

BRIDGE REPLACEMENT - CCS
LETTING DATE: NOVEMBER 17, 2026
PROJECT NO. BROS-C002(83)--5F-02
ADAMS COUNTY

TOTAL SHEETS
15

STANDARD ROAD PLANS

STANDARD ROAD PLANS ARE LISTED ON SHEET 9.

SECTION 404 PERMIT AND CONDITIONS

281-1
MODIFIED

CONSTRUCT THIS PROJECT ACCORDING TO THE REQUIREMENTS OF U.S. ARMY CORPS OF ENGINEERS NATIONWIDE PERMIT 14. NATIONWIDE PERMIT 14 CONDITIONS CAN BE FOUND AT <http://www.mvr.usace.army.mil/Missions/Regulatory/Permits/>. THE U.S. ARMY CORPS OF ENGINEERS RESERVES THE RIGHT TO VISIT THE SITE WITHOUT PRIOR NOTICE.



PLANS OF PROPOSED IMPROVEMENT ON THE FARM TO MARKET SYSTEM

ADAMS COUNTY

PROJECT NO. BROS-C002(83)--5F-02
BRIDGE REPLACEMENT - CCS
ON H 33, OVER BROWN BRANCH, S21 T72 R33

REFER TO THE PROPOSAL FORM FOR LIST OF APPLICABLE SPECIFICATIONS.

THIS PROJECT IS COVERED BY THE IOWA DEPARTMENT OF NATURAL RESOURCES NPDES GENERAL PERMIT NO. 2. THE CONTRACTOR SHALL CARRY OUT THE TERMS AND CONDITIONS OF GENERAL PERMIT NO. 2 AND THE STORM WATER POLLUTION PREVENTION PLAN WHICH IS A PART OF THESE CONTRACT DOCUMENTS. REFER TO SECTION 2602 OF THE STANDARD SPECIFICATIONS FOR ADDITIONAL INFORMATION.

MILEAGE SUMMARY:

STA. 20+70.00 TO STA. 24+80.00 = 410.00 LIN.FT. = 0.0777 MILES

2022, TRAFFIC COUNT = 349 V.P.D.

UTILITY CONTACTS

COMPANY	UTILITY	CONTACT	PHONE #	EMAIL
AUREON NETWORK SERVICES	COMMUNICATIONS	JEFF KLOCKO	515-830-0445	jeff.klocko@aureon.com
FARMERS MUTUAL TELEPHONE	COMMUNICATIONS	PAT GARLAND	712-829-2111	plant@ftrnet.com
FRONTIER COMMUNICATIONS	COMMUNICATIONS	URANAN THAO	515-573-1268	frontierlocatemapsia@ftr.com
LENOX MUNICIPAL UTILITIES	ELECTRIC	TIA SAMO	641-333-2228	tiasamo@lenoxia.com
WINDSTREAM COMMUNICATIONS	COMMUNICATIONS	-	800-289-1901	locate.desk@windstream.com

INDEX OF SEALS

SHEET NO.	NAME	TYPE
BRIDGE STANDARDS	JAMES S. NELSON	STRUCTURAL DESIGN
P10L	JAMES S. NELSON	STRUCTURAL DESIGN
7	DAVID LOGEMANN	GEOTECHNICAL

DRAWING APPROVAL

ALL SHOP DRAWINGS AND FALSEWORK DRAWINGS THAT REQUIRE APPROVAL SHALL BE SUBMITTED TO AND APPROVED BY THE CONTRACTOR, WHO SHALL STAMP, CERTIFY OR PROVIDE OTHER SUCH EVIDENCE ON THE DRAWINGS THAT THEY HAVE RECEIVED CONTRACTOR APPROVAL. THE APPROVED DRAWINGS SHALL THEN BE SUBMITTED TO CALHOUN-BURNS AND ASSOCIATES, FOR REVIEW AND APPROVAL.

ADDRESS : 6775 VISTA DRIVE
WEST DES MOINES, IOWA 50266
TELEPHONE : (515) 224-4344
FAX : (515) 224-1385

SHOP DRAWINGS SHALL BE INDEPENDENT DRAWINGS WITH ADEQUATE DIMENSIONING FOR FABRICATION OF INDIVIDUAL PIECES OF EACH COMPONENT. PHOTOCOPIES OF PLAN DRAWINGS AND NON-CONTRACTOR APPROVED PLANS WILL BE REJECTED.

THESE DRAWINGS SHALL NOT BE SENT TO IOWA D.O.T. BRIDGES AND STRUCTURES BUREAU.



PROJECT NO. BROS-C002(83)--5F-02
FHWA NO. 059810
COUNTY BR. NO. PRESCOTT 10

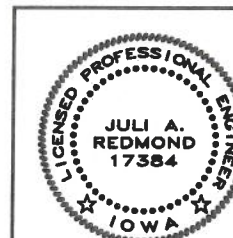
INDEX OF SHEETS

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8. SUPERSTRUCTURE DETAILS
9. TYPICAL SECTIONS AND TABULATIONS
- 10.-11. TABULATIONS
- 12.-14. CROSS SECTIONS
15. TRAFFIC CONTROL PLAN

IOWA DEPARTMENT OF TRANSPORTATION STANDARDS REQUIRED

STANDARD	LATEST REVISION
J30-01-06	09-20
J30-01A-06	09-20
J30-14E-06	09-20
J30-15E-06	09-20
J30-20-06	09-20
J30-21-06	09-20
J30-23-06	09-20
J30-24-06	09-20
J30-35-06	09-20
J30-39-06	09-20
J30-43-06	09-20
J30-44-06	09-20
J30-45-06	09-20
J30-46-06	09-20
J30-48-06	09-20
P10L	06-25

THESE SHEETS MAY BE OBTAINED AT THE ELECTRONIC
REFERENCE LIBRARY WEBSITE. <http://erl.iowadot.gov>



I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

Juli Redmond DATE: 5/5/26
JULI A. REDMOND, P.E.

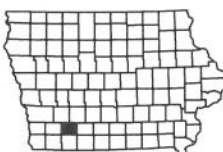
MY LICENSE RENEWAL DATE IS DECEMBER 31, 2026.

PAGES OR SHEETS COVERED BY THIS SEAL:
1-6 AND 8-14 OF 14

APPROVED

Nick T. ... 5-11-26
ADAMS COUNTY ENGINEER DATE

Chris ...
Robert D. ...
Yvonne ...
Scott ...
BOARD OF SUPERVISORS DATE



PROJECT LOCATION

1 MI. 0 1 MI. 2 MI.



TOTAL ESTIMATED QUANTITIES: 130'-0 x 30'-6 C.C.S. BRIDGE							
REF. NO.	CODE NO.	ITEM	UNIT	2 ABUTS	2 PIERS	SUPER	TOTAL
1	2101-0850001	CLEARING AND GRUBBING	ACRE	-	-	-	0.7
2	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CY	-	-	-	620
3	2102-2710090	EXCAVATION, CLASS 10, WASTE	CY	-	-	-	2,434
4	2104-2710020	EXCAVATION, CLASS 10, CHANNEL	CY	-	-	-	2,300
5	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CY	-	-	-	1,050
6	2121-7425020	GRANULAR SHOULDERS, TYPE B	TON	-	-	-	70
7	2123-7450020	SHOULDER FINISHING, EARTH	STA	-	-	-	1.6
8	2301-0690210	BRIDGE APPROACH, TWO LANE	SY	-	-	-	339.6
9	2401-6745625	REMOVAL OF EXISTING BRIDGE	LS	-	-	-	1
10	2402-2720000	EXCAVATION, CLASS 20	CY	113	-	-	113
11	2403-0100010	STRUCTURAL CONCRETE (BRIDGE)	CY	23.0	-	307.2	330.2
12	2404-7775005	REINFORCING STEEL, EPOXY COATED	LB	3,204	-	76,605	79,809
13	2412-0000100	LONGITUDINAL GROOVING IN CONCRETE, BRIDGE DECK AND/OR APPROACHES	SY	-	-	396.8	712.8
14	2414-6424124	CONCRETE OPEN RAILING, TL-4	LF	-	-	282.2	282.2
15	2501-0201042	PILES, STEEL, HP 10 X 42 ; 12 @70'	LF	840	-	-	840
16	2501-0201253	PILES, STEEL, HP 12 X 53 ; 20 @ 80'	LF	-	1,600	-	1,600
17	2501-5478053	CONCRETE ENCASEMENT OF STEEL H PILES, HP 12 X 53 (P10L TYPE 3); 20 @ 23'	LF	-	460	-	460
18	2502-8221305	SUBDRAIN OUTLET, DR-305	EACH	-	-	-	1
19	2505-4008410	STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION, BA-201	EACH	-	-	-	4
20	2505-4021010	STEEL BEAM GUARDRAIL END ANCHOR, BOLTED	EACH	-	-	-	4
21	2505-4021710	STEEL BEAM GUARDRAIL TANGENT END TERMINAL, LS-625	EACH	-	-	-	4
22	2507-6800061	REVETMENT, CLASS E	TON	-	-	-	1,180
23	2510-6745850	REMOVAL OF PAVEMENT	SY	-	-	-	363.6
24	2526-8285010	CONSTRUCTION SURVEY, MONUMENT PRESERVATION	LS	-	-	-	1
25	2526-8285020	CONSTRUCTION SURVEY, CONTROL POINT SURVEY	LS	-	-	-	1
26	2526-8285030	CONSTRUCTION SURVEY, RIGHT OF WAY	LS	-	-	-	1
27	2526-8285040	CONSTRUCTION SURVEY, LOCATION SURVEY	LS	-	-	-	1

REF. NO. ESTIMATE REFERENCE INFORMATION

1.

SEE SITUATION PLAN, SHEET 4, FOR LIMITS.
SELECTIVE CLEARING WILL BE REQUIRED ON THIS PROJECT. ALL DESIRABLE TREES OUTSIDE THE CONSTRUCTION AREA WILL BE SAVED. TREES AND SHRUBS WITHIN THE CONSTRUCTION LIMITS THAT DO NOT HINDER CONSTRUCTION SHALL BE SAVED UNLESS DIRECTED BY THE ENGINEER TO BE REMOVED.
2.

SEE TABULATION CBA-101 ON SHEET 10 FOR BREAKDOWN OF EXCAVATION QUANTITIES.
TYPE "A" COMPACTION WILL BE REQUIRED.
3.

SEE TABULATION CBA-101 ON SHEET 10 FOR BREAKDOWN OF EXCAVATION QUANTITIES.
INCLUDES ALL COST TO REMOVE UNSUITABLE OR EXCESS MATERIAL FROM SITE. THE UNSUITABLE OR EXCESS MATERIAL SHALL BE WASTED AT A LOCATION PROVIDED BY THE CONTRACTOR AND NOTED TO THE ENGINEER.
4.

SEE TABULATION CBA-101 ON SHEET 10 FOR BREAKDOWN OF EXCAVATION QUANTITIES.
INCLUDES COSTS TO CLEAR THE CHANNEL TO THE SHAPE, DEPTH, AND EXTENT SHOWN IN THE "LONGITUDINAL SECTION ALONG CENTERLINE OF ROADWAY" AND THE LIMITS SHOWN ON THE SITUATION PLAN, SHEET 4.
INCLUDES COST OF USING SUITABLE MATERIAL FOR CONSTRUCTION ELSEWHERE ON THIS PROJECT. SUITABLE SOILS SHALL BE AS DEFINED BY ARTICLE 2102.02, D, 2 OF THE STANDARD SPECIFICATIONS.
5.

IN ORDER TO MEET NPDES PERMIT REQUIREMENTS TOPSOIL STRIP, SALVAGE AND SPREAD SHALL BE REQUIRED ON THIS PROJECT. QUANTITY PERTAINS TO WORK WITHIN THE PROJECT LIMITS. SIX INCHES OF TOPSOIL SHALL BE STRIPPED FROM WITHIN THE PROJECT LIMITS AND SPREAD UNIFORMLY (6" TARGET WITH 4" MIN. DEPTH) OVER ALL AREAS THAT ARE NOT COVERED BY PAVEMENT OR GRANULAR MATERIAL. AREAS SHALL BE UNDERCUT PRIOR TO PLACING TOPSOIL. CROSS-SECTIONS SHOW FINISHED GRADELINE.
6.

SEE TYPICAL SECTION CBA-641 ON SHEET 9.
7.

INCLUDES ALL WORK NECESSARY TO CONSTRUCT AND SHAPE SHOULDER AREAS. SEE TYPICAL SECTION CBA-641 ON SHEET 9.
8.

SEE TABULATION 112-6 ON SHEET 11.
COARSE AGGREGATE DURABILITY SHALL BE CLASS 3 OR BETTER.
NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR HEATING AND PROTECTION OF CONCRETE, IF NECESSARY.
METHOD OF MEASUREMENT AND BASIS OF PAYMENT SHALL BE PER SECTION 2301 OF THE STANDARD SPECIFICATION.
CERTIFIED PLANT INSPECTION IS REQUIRED.
REINFORCING STEEL SHALL BE EPOXY COATED.

9.

THE EXISTING BRIDGE AT STATION 22+75 IS A 100' x 26' CONTINUOUS CONCRETE SLAB BRIDGE WITH CONCRETE STUB ABUTMENTS, P10A PILE PIERS AND A CONCRETE DECK BUILT IN 1965. INCLUDES REMOVAL OF OLD TIMBER PILE STUBS.
AN INSPECTION FOR THE PRESENCE OF ASBESTOS CONTAINING MATERIALS WAS COMPLETED AND NO SUSPECT MATERIALS WERE FOUND. IF ADDITIONAL MATERIALS SUSPECTED OF CONTAINING ASBESTOS ARE DISCOVERED DURING DEMOLITION OF THE BRIDGE, WORK SHALL BE STOPPED IMMEDIATELY AND THE ENGINEER NOTIFIED.
THE LUMP SUM BID FOR "REMOVAL OF EXISTING BRIDGE" SHALL INCLUDE REMOVAL AND DISPOSAL OF THE EXISTING STRUCTURE. ALL REMAINING SALVAGEABLE MATERIAL AND UNSALVAGEABLE MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR. THE EXISTING STRUCTURE SHALL BE REMOVED TO AN ELEVATION, AT LEAST 1 FOOT BELOW FINISHED GROUNDLINE AND TO THE EXTENT THAT IT WILL NOT INTERFERE WITH THE NEW CONSTRUCTION. CONTRACTOR SHALL NOTE SOUTH PILE AT EXISTING WEST PIER AND NORTH PILE AT EAST PIER MAY INTERFERE WITH DRIVING PROPOSED PIER PILES. EXISTING PILES SHALL BE REMOVED AS NECESSARY TO AVOID INTERFERENCE WITH NEW CONSTRUCTION AND TO AN ELEVATION AT LEAST 11 FOOT BELOW FINISHED GROUNDLINE. PER EXISTING BRIDGE PLANS, EXISTING PILES ARE 44' AND 40' LONG 16 INCH CONCRETE PILES, TYPE 3 OR 4 P10A, AT WEST AND EAST PIERS RESPECTIVELY.
BROKEN CONCRETE FROM THE EXISTING BRIDGE WITH SIMILAR GRADATION TO CLASS 'E' REVETMENT MAY BE PLACED ON THE BANKS OUTSIDE THE LIMITS SHOWN FOR CLASS 'E' REVETMENT, AS DIRECTED BY THE ENGINEER. ALL REINFORCING SHALL BE CUT OFF FLUSH WITH THE CONCRETE. H.M.A. MATERIAL IS SPECIFICALLY EXCLUDED. ALTERNATELY, THE CONTRACTOR MAY DISPOSE OF THE BROKEN CONCRETE OFF-SITE AT A LOCATION PROVIDED BY THE CONTRACTOR AND NOTED TO THE ENGINEER.
SEE HAZARDOUS MATERIALS NOTES ON SHEET 5 FOR PAINT SCRAPE SAMPLE RESULTS.
10.

QUANTITY IS BASED ON THE ASSUMPTION THAT CHANNEL EXCAVATION AND NECESSARY BERM CONSTRUCTION HAVE BEEN COMPLETED.
INCLUDES COST OF USING SUITABLE MATERIAL FOR CONSTRUCTION ELSEWHERE ON THIS PROJECT. SUITABLE SOILS SHALL BE AS DEFINED BY ARTICLE 2102.02, D, 2 OF THE STANDARD SPECIFICATIONS.
11.

THE STRUCTURAL CONCRETE QUANTITY HAS BEEN DECREASED BY 1.4 C.Y. FOR THE ELIMINATION OF THE PAVING BLOCKS.
INCLUDES COST OF TAR PAPER, PVC PIPE IN WINGS, AND CONCRETE SEALER ALONG EDGES OF SLAB.
THE MACADAM STONE SHOWN ON THE WING ARMORING DETAILS IN THE J STANDARDS SHALL BE REPLACED WITH CLASS 'E' REVETMENT AND SHALL EXTEND ACROSS THE BERM AS SHOWN IN DETAIL 'B' ON SITUATION PLAN, SHEET 4. THE COST OF CLASS 'E' REVETMENT ON THE BERMS AND FOR WING ARMORING SHALL BE INCLUDED IN THE REVETMENT, CLASS 'E' BID ITEM.
NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR HEATING AND PROTECTION OF CONCRETE, IF NECESSARY.
CERTIFIED PLANT INSPECTION IS REQUIRED.
ARTICLE 2428 REGARDING BRIDGE DECK SMOOTHNESS DOES APPLY TO THIS PROJECT.
12.

ALL REINFORCING SHALL BE GRADE 60. THE REINFORCING STEEL QUANTITY HAS BEEN DECREASED BY 30 LBS FOR THE EXCLUSION OF THE 5z1 PAVING BLOCK LIFTING HOOPS.
THE REINFORCING STEEL QUANTITY HAS BEEN INCREASED BY 84 LBS. TO REFLECT MONOLITHIC PIERS WITH TEN (10) STEEL H-PILES PER I.D.O.T. STANDARD SHEET J30-24-06 FOR A 110'-0 BRIDGE, WHICH WILL REQUIRE FIFTY-FOUR (54), 8'-1, 5h1 PIER CAP STIRRUPS TOTALING 455 LBS.
13.

SURFACE FINISHING AND CURING OF THE BRIDGE DECK SHALL BE PER INTERSTATE AND PRIMARY PROJECT REQUIREMENTS IN STANDARD SPECIFICATION 2412.03,D,4,a AND 2412.03.E,1,a.
LONGITUDINAL GROOVING IS FOR BRIDGE DECK AND THE APPROACHES. INCLUDES 396.8 SY FOR BRIDGE DECK AND 316.0 SY FOR APPROACH PAVING.
14.

CERTIFIED PLANT INSPECTION IS REQUIRED.
INCLUDES COST OF CONCRETE SEALER.
ALL STRUCTURAL CONCRETE FOR THE RAIL IS TO BE CLASS C; SUBSTITUTION OF CLASS D CONCRETE IS NOT ALLOWED.
NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR HEATING AND PROTECTION OF CONCRETE, IF NECESSARY.
15. - 16.

SEE PILE NOTES ON SHEET 5.
THE PIERS FOR THIS BRIDGE UTILIZES HP12X53 PILES WHICH ARE NOT SHOWN IN THE STANDARDS. DUE TO THE SUBSTITUTION OF LARGER PILES WITH AN INCREASED BEARING CAPACITY, A REDUCED NUMBER OF PILES IS REQUIRED. THE PIERS SHALL BE CONSTRUCTED WITH TEN (10) STEEL H-PILES PER I.D.O.T. STANDARD SHEET J30-24-06 FOR A 110'-0 BRIDGE.
17.

CERTIFIED PLANT INSPECTION IS REQUIRED.
NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR HEATING AND PROTECTION OF CONCRETE, IF NECESSARY.
CAP STEEL IS REQUIRED.
19. – 21.

SEE TABULATIONS 108-8A AND 107-23 ON SHEET 10.
22.

REVETMENT IS TO BE PLACED AT A THICKNESS OF 1'-6. SEE SITUATION PLAN, SHEET 4, FOR LIMITS. INCLUDES REVETMENT ON BERMS AND FOR WING ARMORING.
23.

SEE TABULATION 110-1 ON SHEET 10.
EXISTING PAVEMENT CONSISTS OF APPROXIMATELY 50 FT. LONG, 8 INCH PCC APPROACHES OVERLAID WITH HMA AND HMA PAVEMENT OF UNKNOWN THICKNESS BEYOND THE APPROACHES.
IN ORDER TO AVOID ANY UNNECESSARY SURFACE BREAKS OR PREMATURE SPALLING, THE CONTRACTOR IS CAUTIONED TO EXERCISE EXTREME CARE WHEN PERFORMING ANY OF THE NECESSARY SAW CUTTING OPERATIONS FOR THE PROPOSED PAVEMENT REMOVAL. SAW CUTS ARE TO BE MADE AT THE STATION INDICATED OR AT THE NEAREST TRANSVERSE PAVEMENT JOINT, AS DIRECTED BY THE ENGINEER.
24. – 27.

THE CONTRACTOR IS RESPONSIBLE FOR CONDUCTING AN INDEPENDENT CHECK OF ALL CONSTRUCTION STAKES PLACED FOR THE PROJECT. THIS INDEPENDENT CHECK SHALL BE SUFFICIENT TO UNDERSTAND THE PLACEMENT AND INTENT OF THE STAKES.
SEE TABULATION CBA-300 ON SHEET 10, FOR FIELD TIES TO THE SITE SURVEY.

130'-0 x 30'-6 CONTINUOUS
CONCRETE SLAB BRIDGE

INTEGRAL ABUTMENTS
39'-6 END SPANS

P10L PIERS
51'-0 INTERIOR SPAN

QUANTITY SUMMARY

STATION 22+75.00
ADAMS COUNTY,

15' SKEW, LT. AHEAD
IOWA

TOTAL ESTIMATED QUANTITIES: 130'-0 x 30'-6 C.C.S. BRIDGE							
REF. NO.	CODE NO.	ITEM	UNIT	2 ABUTS	2 PIERS	SUPER	TOTAL
28	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	STA	-	-	-	5.47
29	2528-2518000	SAFETY CLOSURE	EACH	-	-	-	2
30	2528-8445110	TRAFFIC CONTROL	LS	-	-	-	1
31	2533-4980005	MOBILIZATION	LS	-	-	-	1
32	2601-2634100	MULCHING	ACRE	-	-	-	2.6
33	2601-2636043	SEEDING AND FERTILIZING (RURAL)	ACRE	-	-	-	1.3
34	2601-2642100	STABILIZING CROP - SEEDING AND FERTILIZING	ACRE	-	-	-	1.3
35	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.	LF	-	-	-	1,020
36	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH	-	-	-	1
37	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH	-	-	-	1

REF. NO. ESTIMATE REFERENCE INFORMATION

28.

SEE TABULATION 108-22 ON SHEET 10.
ON ALL NEW OR RECONSTRUCTED PAVEMENTS, THE LOCATION OF "NO PASSING" ZONE LINES SHALL BE LOCATED IN THE FIELD. THE LOCATIONS OF THE PROPOSED "NO PASSING" ZONE LINES SHOWN ON THE PAVEMENT MARKING TABULATION IS FOR ESTIMATING QUANTITIES ONLY.
29.

SEE TABULATION 108-13A ON SHEET 9.
30.

SEE TRAFFIC CONTROL PLAN ON SHEET 15.
32. – 34.

THE CONTRACTOR IS TO RESHAPE, FERTILIZE, SEED AND MULCH ANY AREAS DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION. THIS SHALL BE INCLUDED IN THE PRICES BID FOR "MULCHING" AND "SEEDING AND FERTILIZING (RURAL)." SEE POLLUTION PREVENTION PLAN, SHEET 6 FOR STABILIZING CROP REQUIREMENT.
35. – 37.

SEE POLLUTION PREVENTION PLAN, SHEET 6, AND TABULATION 100-19 ON SHEET 9.

130'-0 x 30'-6 CONTINUOUS
CONCRETE SLAB BRIDGE

INTEGRAL ABUTMENTS
39'-6 END SPANS

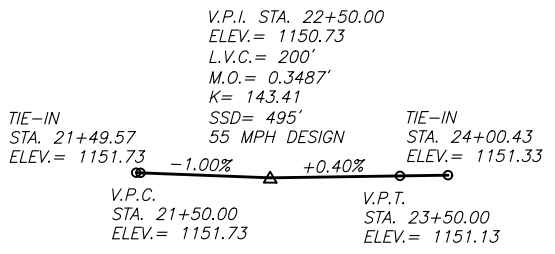
P10L PIERS
51'-0 INTERIOR SPAN

QUANTITY SUMMARY

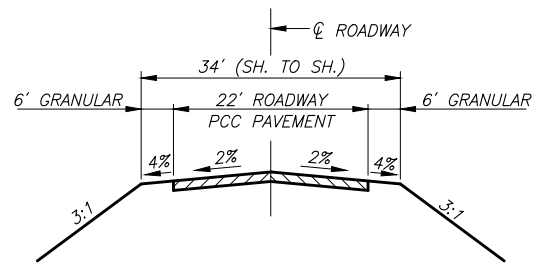
STATION 22+75.00
ADAMS COUNTY,

15' SKEW, LT. AHEAD
IOWA

BENCH MARK: RR SPIKE IN UTILITY POLE, STA. 21+12, 37' RT. ELEV.= 1146.99



PROPOSED GRADE



TYPICAL APPROACH SECTION

LOCATION

ADAMS COUNTY
T-72N, R-33W
SECTION 21
PRESCOTT TOWNSHIP
OVER BROWN BRANCH OF EAST NODAWAY RIVER

HYDRAULIC DATA

DRAINAGE AREA = 9.1 SQ. MI.
DESIGN DISCHARGE = 3,300 C.F.S.
DESIGN HIGH WATER ELEV. = 1140.9
MANNING SLOPE = 0.00364 FT./FT.
BRIDGE WATERWAY AREA = 636 SQ. FT.
DESIGN VELOCITY = 5.2 F.P.S.

Q25 = 2,700 C.F.S. STAGE ELEV. = 1139.8
Q50 = 3,300 C.F.S. STAGE ELEV. = 1140.9 (DESIGN)
Q100 = 4,000 C.F.S. STAGE ELEV. = 1142.0
Q200 = 4,300 C.F.S. STAGE ELEV. = 1142.4
Q500 = 5,300 C.F.S. STAGE ELEV. = 1143.7

EXT. H.W. ELEV. = UNKNOWN
ANTICIPATED Q100 SCOUR ELEV. = 1123.9
ANTICIPATED Q200 SCOUR ELEV. = 1123.8

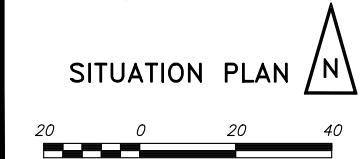
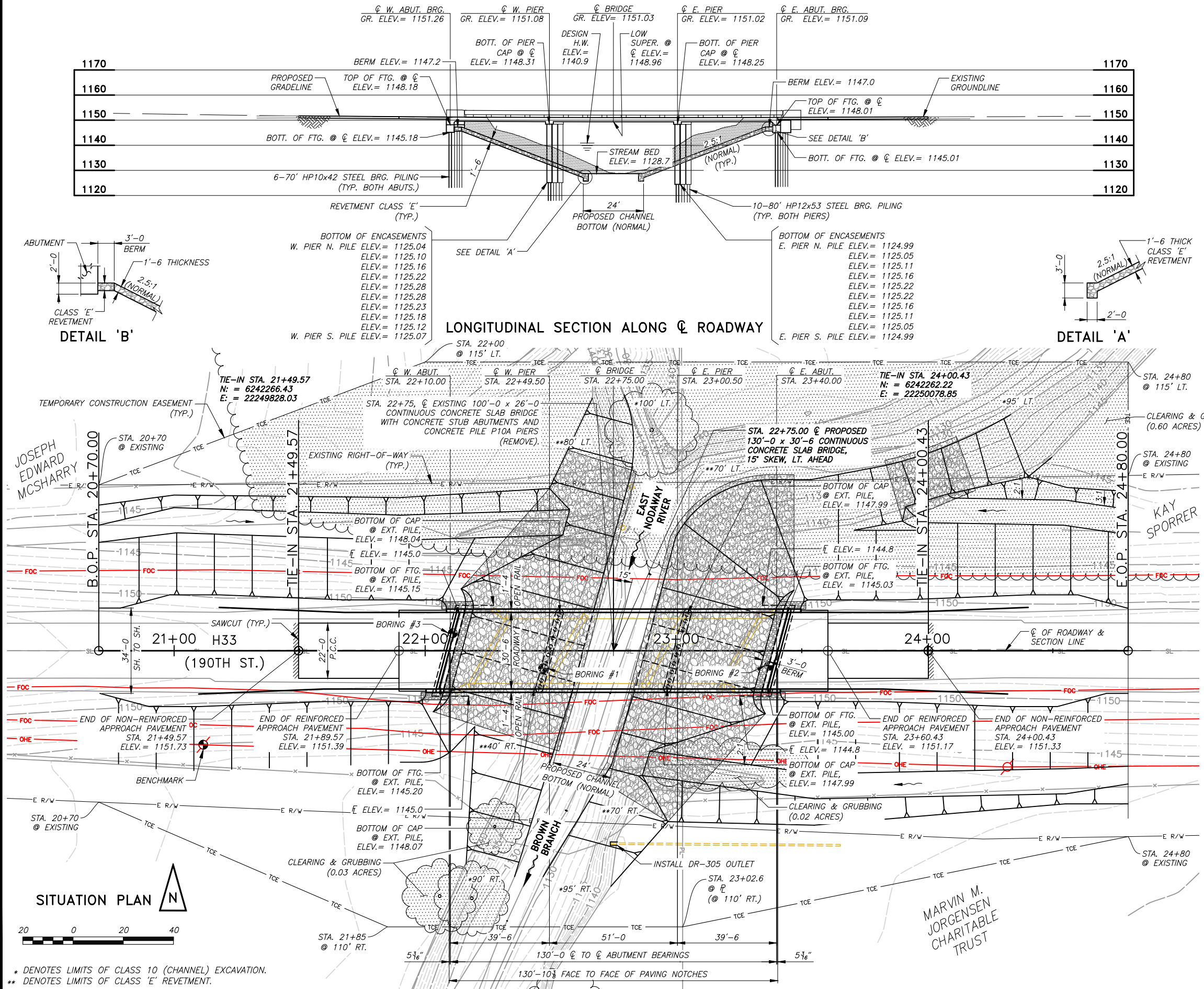
130'-0 x 30'-6 CONTINUOUS
CONCRETE SLAB BRIDGE

INTEGRAL ABUTMENTS 39'-6 END SPANS P10L PIERS 51'-0 INTERIOR SPAN

SITUATION PLAN

STATION 22+75.00
ADAMS COUNTY, IOWA

15' SKEW, LT. AHEAD



* DENOTES LIMITS OF CLASS 10 (CHANNEL) EXCAVATION.
** DENOTES LIMITS OF CLASS 'E' REVETMENT.

SPECIFICATIONS

DESIGN: AASHTO LRFD 3rd EDITION, SERIES OF 2004, WITH INTERIM 2005.
CONSTRUCTION: THE IOWA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, SERIES 2023, PLUS GENERAL SPECIFICATIONS, DEVELOPMENTAL SPECIFICATIONS, AND SPECIAL PROVISIONS, SHALL APPLY TO THE CONSTRUCTION ON THIS PROJECT.

DESIGN STRESSES

DESIGN STRESSES FOR THE FOLLOWING MATERIALS ARE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 3RD EDITION, SERIES 2004, WITH INTERIM 2005.
REINFORCING STEEL IN ACCORDANCE WITH LRFD AASHTO SECTION 5, GRADE 60.
CONCRETE IN ACCORDANCE WITH LRFD AASHTO SECTION 5, F'C=3,500 PSI.

GENERAL NOTES

THIS DESIGN IS FOR A 130' x 30'-6 REINFORCED CONCRETE SLAB BRIDGE ON H 33 OVER THE BROWN BRANCH OF THE EAST NODAWAY RIVER IN ADAMS COUNTY, IOWA.
THIS BRIDGE IS DESIGNED FOR HL-93 LOADING PLUS 20 LBS. PER SQ. FT. OF ROADWAY FOR FUTURE WEARING SURFACE.
ACCESS SHALL BE MAINTAINED TO INDIVIDUAL PROPERTIES DURING CONTRUCTION. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
THE PRIME CONTRACTOR SHALL EMPLOY CONTROLS TO REDUCE THE EROSIVENESS OF LAND ADJACENT TO SURFACE WATERS AND WETLANDS, INCLUDING ESTABLISHMENT AND MAINTENANCE OF EROSION CONTROL DURING AND AFTER CONSTRUCTION AND REVEGETATION OF ALL DISTURBED AREAS UPON PROJECT COMPLETION. THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF ALL EROSION CONTROL MEASURES.
STANDARD ROAD PLAN EW-401 IS LISTED IN TABULATION 105-4; HOWEVER, IT IS INCLUDED FOR INFORMATION PURPOSES ONLY SINCE IT IS AN OPTION. NO QUANTITIES ASSOCIATED WITH CONSTRUCTING EW-401 ARE INCLUDED IN ANY BID ITEMS.
STANDARD ROAD PLANS ARE AVAILABLE FROM THE IOWA DEPARTMENT OF TRANSPORTATION
WEBSITE: <http://erl.iowadot.gov>

UTILITY NOTES

SEE SECTION 1107.15 OF THE STANDARD SPECIFICATION REGARDING UTILITY COORDINATION.

WASTE AND DISPOSAL NOTES

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE WASTE AREAS OR DISPOSAL SITES FOR EXCESS MATERIAL (EXCAVATED MATERIAL OR BROKEN CONCRETE) WHICH IS NOT DESIRABLE TO BE INCORPORATED INTO THE WORK INVOLVED ON THIS PROJECT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT AREAS (INCLUDING HAUL ROADS) SELECTED FOR WASTE OR DISPOSAL NOT IMPACT 1) CULTURALLY SENSITIVE SITES OR GRAVES OR 2) WETLANDS OR "WATERS OF THE U.S.", INCLUDING STREAMS OR STREAM BANKS BELOW THE "ORDINARY HIGH WATER MARK", WITHOUT AN APPROVED U.S. ARMY CORPS OF ENGINEERS SECTION 404 PERMIT. NO PAYMENT FOR OVERHAUL WILL BE ALLOWED FOR MATERIAL HAULED TO THESE SITES. NO MATERIAL SHALL BE PLACED WITHIN THE RIGHT-OF-WAY, UNLESS SPECIFICALLY STATED IN THE PLANS OR APPROVED BY THE ENGINEER.

HAZARDOUS MATERIALS NOTES

AN INSPECTION FOR THE PRESENCE OF ASBESTOS CONTAINING MATERIALS WAS COMPLETED BY:

SCOTT BROWN OF IOWA ENVIRONMENTAL SERVICES
IA LICENSE NUMBER: 23-110451
DATE INSPECTED: 09/04/2024
PHONE: 515-279-8042

A SCRAPE SAMPLE OF THE EXISTING PAINT WAS TAKEN FROM THE RAILING OF THIS BRIDGE TO GET AN INDICATION OF THE EXISTENCE AND OF THE LEVEL OF TOTAL CHROMIUM AND TOTAL LEAD. ANALYSIS OF TOTAL LEAD ON THIS SAMPLE WAS 39,400 PART PER MILLION (PPM). ANALYSIS OF TOTAL CHROMIUM ON THIS SAMPLE WAS 32 PPM. THESE ANALYSES SHOW THE EXISTENCE OF THESE TWO TOXIC CONSTITUENTS. LEVELS INDICATED BY THESE TESTS COULD CREATE CONDITIONS ABOVE REGULATORY LIMITS FOR HEALTH AND SAFETY REQUIREMENTS. NO OTHER CONSTITUENTS WERE ANALYZED. THE BIDDER SHOULD NOT RELY ON THE COUNTY'S TESTING AND ANALYSIS FOR ANY PURPOSE OTHER THAN AS AN INDICATION OF THE EXISTENCE OF THESE TWO TOXIC CONSTITUENTS.
THE CONTRACTOR SHALL CONDUCT THEIR OPERATIONS IN SUCH A MANNER THAT ANY PAINT REMOVED DURING REMOVAL IS CONTAINED, COLLECTED, AND DISPOSED OF IN ACCORDANCE WITH SECTION 2508 OF THE STANDARD SPECIFICATIONS.
BEFORE DELIVERY OF ANY SCRAP STEEL THE CONTRACTOR SHALL PROVIDE A WRITTEN NOTICE TO THE RECEIVING FACILITY. THIS NOTICE SHALL AT A MINIMUM INCLUDE:
1. A NOTICE THAT THE SCRAP STEEL IS COATED WITH PAINT THAT HAS REGULATED MATERIALS AT LEVELS THAT COULD BE HAZARDOUS TO EMPLOYEES OR THE ENVIRONMENT.
2. A COPY OF THE SCRAPE SAMPLE PROVIDED IN THE CONTRACT DOCUMENTS.
3. A SIGNATURE BLOCK FOR THE RECEIVING FACILITY TO CONFIRM THEIR RECEIPT OF THIS INFORMATION.
A COPY OF THIS NOTICE, SIGNED BY THE RECEIVING FACILITY, SHALL BE RETURNED TO THE ENGINEER BEFORE ANY SCRAP STEEL IS REMOVED FROM THE PROJECT.
ALL COSTS ASSOCIATED WITH COMPLIANCE WITH THE ABOVE REMOVAL AND DISPOSAL REQUIREMENTS WILL BE INCIDENTAL TO "REMOVAL OF EXISTING BRIDGE."

PILE NOTES

SOUNDING AND TEST BORING DATA SHOWN ON PLANS WERE ACCUMULATED FOR DESIGNING AND ESTIMATING PURPOSES. THEIR APPEARANCE ON THE PLAN DOES NOT CONSTITUTE A GUARANTEE THAT CONDITIONS OTHER THAN THOSE INDICATED WILL NOT BE ENCOUNTERED.
THIS PROJECT USES THE LOAD AND RESISTANCE FACTOR DESIGN (LRFD) METHODOLOGY FOR DETERMINING CONTRACT LENGTH AND NOMINAL AXIAL BEARING RESISTANCE. A WEAP ANALYSIS AND BEARING GRAPH WILL BE PROVIDED BY THE ENGINEER THAT GIVES THE RELATIONSHIP BETWEEN REQUIRED NOMINAL AXIAL BEARING RESISTANCE AND BLOW COUNT.

ABUTMENT PILE

THE CONTRACT LENGTH OF 70 FEET FOR THE ABUTMENT PILES IS BASED ON A COHESIVE SOIL CLASSIFICATION, A TOTAL FACTORED AXIAL LOAD PER PILE (PU) OF 93 KIPS, AND A GEOTECHNICAL RESISTANCE FACTOR (PHI) OF 0.65.
THE NOMINAL AXIAL BEARING RESISTANCE FOR CONSTRUCTION CONTROL WAS DETERMINED FROM A COHESIVE SOIL CLASSIFICATION AND A GEOTECHNICAL RESISTANCE FACTOR (PHI) OF 0.65. PILES ARE ASSUMED TO BE DRIVEN FROM A START ELEVATION AT THE BOTTOM OF FOOTING.
THE REQUIRED NOMINAL AXIAL BEARING RESISTANCE FOR THE ABUTMENT PILES IS 60 TONS AT END OF DRIVE (EOD). IF RETAPS ARE NECESSARY TO ACHIEVE BEARING, THE REQUIRED NOMINAL AXIAL BEARING RESISTANCE IS 72 TONS AT ONE-DAY OR LATER RETAP. THE PILE CONTRACT LENGTH SHALL BE DRIVEN AS PER PLAN UNLESS PILES REACH REFUSAL. CONSTRUCTION CONTROL REQUIRES A WEAP ANALYSIS WITH BEARING GRAPH.

PIER PILE

THE CONTRACT LENGTH OF 80 FEET FOR THE PIER PILES IS BASED ON A COHESIVE SOIL CLASSIFICATION, A TOTAL FACTORED AXIAL LOAD PER PILE (PU) OF 127 KIPS, AND A GEOTECHNICAL RESISTANCE FACTOR (PHI) OF 0.65.
THE NOMINAL AXIAL BEARING RESISTANCE FOR CONSTRUCTION CONTROL WAS DETERMINED FROM A COHESIVE SOIL CLASSIFICATION AND A GEOTECHNICAL RESISTANCE FACTOR (PHI) OF 0.65. PILES ARE ASSUMED TO BE DRIVEN FROM A START ELEVATION AT THE BOTTOM OF ENCASEMENT. DESIGN SCOUR (100-YEAR) WAS ASSUMED TO AFFECT THE UPPER ONE FOOT OF EMBEDDED PILE LENGTH AND CAUSE ONE KIP OF DRIVING RESISTANCE.
THE REQUIRED NOMINAL AXIAL BEARING RESISTANCE FOR THE PIER PILES IS 83 TONS AT END OF DRIVE (EOD). IF RETAPS ARE NECESSARY TO ACHIEVE BEARING, THE REQUIRED NOMINAL AXIAL BEARING RESISTANCE IS 98 TONS AT ONE-DAY OR LATER RETAP. THE PILE CONTRACT LENGTH SHALL BE DRIVEN AS PER PLAN UNLESS PILES REACH REFUSAL. CONSTRUCTION CONTROL REQUIRES A WEAP ANALYSIS WITH BEARING GRAPH.

CONCRETE AND REINFORCING STEEL NOTES

ALL REINFORCING STEEL SHALL BE SECURELY WIRED IN PLACE BEFORE CONCRETE IS PLACED. BAR CHAIRS SPACED AT NOT MORE THAN 3'-0 CENTERS IN EITHER DIRECTION SHALL BE USED TO SUPPORT ALL REINFORCING IN ACCORDANCE WITH THE SECTION 2404 OF THE STANDARD SPECIFICATIONS.
TOP AND BOTTOM REINFORCING STEEL IS TO BE SUPPORTED AS NOTED ON STANDARD J30-14E-06 AND J30-20-06.
CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR IS TO BE 2" UNLESS OTHERWISE NOTED OR SHOWN.
ALL EXPOSED CORNERS 90 DEGREES OR SHARPER ARE TO BE FILLETED WITH A 3/4" DRESSED AND BEVELED STRIP.
ALL REINFORCING BARS AND BARS NOTED AS DOWELS SUPPLIED FOR THIS STRUCTURE SHALL BE DEFORMED REINFORCEMENT UNLESS OTHERWISE NOTED OR SHOWN.
KEYWAY DIMENSIONS SHOWN ON THE PLANS ARE BASED ON NOMINAL DIMENSIONS UNLESS STATED OTHERWISE. IN ADDITION, THE BEVEL USED ON THE KEYWAY SHALL BE LIMITED TO A MAXIMUM OF 10 DEGREES FROM THE VERTICAL.
CONCRETE PAVING BLOCKS ARE NOT REQUIRED, HOWEVER, IF IT BECOMES NECESSARY TO PREVENT DAMAGE TO THE END OF THE BRIDGE DECK OR BACKWALL FROM CONSTRUCTION EQUIPMENT, AN APPROPRIATE METHOD OF PROTECTION APPROVED BY THE ENGINEER SHALL BE PROVIDED BY THE BRIDGE CONTRACTOR. ANY DAMAGE TO THE DECK OR BACKWALL SHALL BE REPAIRED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. NO ADDITIONAL PAYMENT WILL BE AUTHORIZED FOR THIS WORK.

CONTRACTOR'S WORK AREA

THE CONTRACTOR'S WORK AND MATERIAL STORAGE AREA SHALL BE DEFINED BY THE CONTRACTOR AND NOTED TO THE ENGINEER. THE CONTRACTOR SHALL SHAPE, FERTILIZE, AND SEED THIS CONTRACTOR'S AREA IN ORDER TO RETURN IT TO ITS ORIGINAL CONDITION. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR "SEEDING AND FERTILIZING (RURAL)" AND "MULCHING" BID ITEMS. AREAS OUTSIDE THE CONTRACTOR'S AREA DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED TO THEIR ORIGINAL CONDITION, AS DETERMINED BY THE ENGINEER. NO ADDITIONAL PAYMENT WILL BE AUTHORIZED FOR THIS WORK.

130'-0 x 30'-6 CONTINUOUS
CONCRETE SLAB BRIDGE

INTEGRAL ABUTMENTS
39'-6 END SPANS

P10L PIERS
51'-0 INTERIOR SPAN

GENERAL NOTES

STATION 22+75.00
ADAMS COUNTY,

15' SKEW, LT. AHEAD
IOWA

POLLUTION PREVENTION PLAN

THIS PROJECT IS REGULATED BY THE REQUIREMENTS OF THE IOWA DEPARTMENT OF NATURAL RESOURCES (DNR) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT NO. 2 OR AN IOWA DEPARTMENT OF NATURAL RESOURCES (DNR) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) INDIVIDUAL STORM WATER PERMIT. THE CONTRACTOR SHALL CARRY OUT THE TERMS AND CONDITIONS OF THIS PERMIT AND THE POLLUTION PREVENTION PLAN (PPP).

THIS BASE PPP INCLUDES INFORMATION ON ROLES AND RESPONSIBILITIES, PROJECT SITE DESCRIPTION, CONTROLS, MAINTENANCE PROCEDURES, INSPECTION REQUIREMENTS, NON-STORM WATER CONTROLS, POTENTIAL SOURCES OF OFF RIGHT-OF-WAY POLLUTION, AND DEFINITIONS. THIS PLAN REFERENCES OTHER DOCUMENTS RATHER THAN REPEATING THE INFORMATION CONTAINED IN THE DOCUMENTS. A COPY OF THIS BASE POLLUTION PREVENTION PLAN, AMENDED AS NEEDED DURING CONSTRUCTION, WILL BE READILY AVAILABLE FOR REVIEW.

ALL CONTRACTORS SHALL CONDUCT THEIR OPERATIONS IN A MANNER THAT CONTROLS POLLUTANTS, MINIMIZES EROSION, AND PREVENTS SEDIMENTS FROM ENTERING WATERS OF THE STATE AND LEAVING THE HIGHWAY RIGHT-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE AND IMPLEMENTATION OF THE PPP FOR THEIR ENTIRE CONTRACT. THIS RESPONSIBILITY SHALL BE FURTHER SHARED WITH SUBCONTRACTORS WHOSE WORK IS A SOURCE OF POTENTIAL POLLUTION AS DEFINED IN THIS PPP.

I. ROLES AND RESPONSIBILITIES

- A. DESIGNER:
 - 1. PREPARES BASE PPP INCLUDED IN THE PROJECT PLAN.
- B. OWNER
 - 1. PREPARES NOTICE OF INTENT (NOI) SUBMITTED TO IOWA DNR.
 - 2. IS SIGNATURE AUTHORITY ON THE BASE PPP.
- C. CONTRACTOR:
 - 1. SIGNS A CO-PERMITTEE CERTIFICATION STATEMENT ADHERING TO THE REQUIREMENTS OF THE NPDES PERMIT AND THIS PPP. ALL CO-PERMITTEES ARE LEGALLY REQUIRED UNDER THE CLEAN WATER ACT AND THE IOWA ADMINISTRATIVE CODE TO ENSURE COMPLIANCE WITH THE TERMS AND CONDITIONS OF THIS PPP.
 - 2. DESIGNATES A WATER POLLUTION CONTROL MANAGER (WPCM), WHO HAS THE DUTIES AND RESPONSIBILITIES AS DEFINED IN SPECIFICATIONS SECTION 2602 OF THE STANDARD SPECIFICATIONS.
 - 3. SUBMITS AN EROSION CONTROL IMPLEMENTATION PLAN (ECIP) AND ECIP UPDATES ACCORDING TO SPECIFICATIONS SECTION 2602 OF THE STANDARD SPECIFICATIONS.
 - 4. INSTALLS AND MAINTAINS APPROPRIATE CONTROLS. THIS WORK MAY BE SUBCONTRACTED AS DOCUMENTED THROUGH SUBCONTRACTOR REQUEST FORMS (FORM 830231).
 - 5. SUPERVISES AND IMPLEMENTS GOOD HOUSEKEEPING PRACTICES ACCORDING TO PARAGRAPH III, C, 2.
 - 6. CONDUCTS JOINT REQUIRED INSPECTIONS OF THE SITE WITH INSPECTION STAFF. WHEN CONTRACTOR IS NOT MOBILIZED ON SITE, CONTRACTOR MAY DELEGATE THIS RESPONSIBILITY TO A TRAINED OR CERTIFIED SUBCONTRACTOR. CONTRACTING AUTHORITY ALSO MAY WAIVE JOINT INSPECTION REQUIREMENT DURING WINTER SHUTDOWN. IN BOTH CIRCUMSTANCES, WPCM (OR TRAINED OR CERTIFIED DELEGATE FROM THE CONTRACTOR) IS STILL RESPONSIBLE TO REVIEW AND SIGN INSPECTION REPORTS.
 - 7. COMPLIES WITH TRAINING AND CERTIFICATION REQUIREMENTS OF SECTION 2602 OF THE STANDARD SPECIFICATIONS.
 - 8. SUBMITS AMENDED PPP SITE MAP ACCORDING TO SECTION 2602 OF THE STANDARD SPECIFICATIONS.
- D. SUBCONTRACTORS:
 - 1. SIGN A CO-PERMITTEE CERTIFICATION STATEMENT ADHERING TO THE REQUIREMENTS OF THE NPDES PERMIT AND THIS PPP IF RESPONSIBLE FOR SEDIMENT OR EROSION CONTROLS, INVOLVED IN LAND DISTURBING ACTIVITIES, OR PERFORMING WORK THAT IS A SOURCE OF POTENTIAL POLLUTION AS DEFINED IN THIS PPP. SUBCONTRACTED WORK ITEMS ARE IDENTIFIED IN SUBCONTRACTOR REQUEST FORMS (FORM 830231). ALL CO-PERMITTEES ARE LEGALLY REQUIRED UNDER THE CLEAN WATER ACT AND THE IOWA ADMINISTRATIVE CODE TO ENSURE COMPLIANCE WITH THE TERMS AND CONDITIONS OF THIS PPP.
 - 2. IMPLEMENT GOOD HOUSEKEEPING PRACTICES ACCORDING TO PARAGRAPH III, C, 2.
- E. RCE/PROJECT ENGINEER:
 - 1. IS PROJECT STORM WATER MANAGER.
 - 2. TAKES ACTIONS NECESSARY TO ENSURE COMPLIANCE WITH STORM WATER REQUIREMENTS INCLUDING, WHERE APPROPRIATE, ISSUING STOP WORK ORDERS, AND DIRECTING ADDITIONAL INSPECTIONS AT CONSTRUCTION PROJECT SITES THAT ARE EXPERIENCING PROBLEMS WITH ACHIEVING PERMIT COMPLIANCE.
 - 3. ORDERS THE TAKING OF MEASURES TO CEASE, CORRECT, PREVENT, OR MINIMIZE THE CONSEQUENCES OF NON-COMPLIANCE WITH THE STORM WATER REQUIREMENTS OF THE APPLICABLE PERMIT.
 - 4. SUPERVISES ALL WORK NECESSARY TO MEET STORM WATER REQUIREMENTS AT THE PROJECT, INCLUDING WORK PERFORMED BY CONTRACTORS AND SUBCONTRACTORS.
 - 5. REQUIRES EMPLOYEES, CONTRACTORS, AND SUBCONTRACTORS TO TAKE APPROPRIATE RESPONSIVE ACTION TO COMPLY WITH STORM WATER REQUIREMENTS, INCLUDING REQUIRING ANY SUCH PERSON TO CEASE OR CORRECT A VIOLATION OF STORM WATER REQUIREMENTS, AND TO ORDER OR RECOMMEND SUCH OTHER ACTIONS AS NECESSARY TO MEET STORM WATER REQUIREMENTS.
 - 6. IS FAMILIAR WITH THE PROJECT PPP AND STORM WATER SITE MAP.
 - 7. IS THE POINT OF CONTACT FOR THE PROJECT FOR REGULATORY OFFICIALS, INSPECTOR, CONTRACTORS, AND SUBCONTRACTORS REGARDING STORM WATER REQUIREMENTS.
 - 8. IS SIGNATURE AUTHORITY ON NOTICE OF DISCONTINUATION.
 - 9. MAINTAINS AN UP-TO-DATE RECORD OF CONTRACTORS, SUBCONTRACTORS, AND SUBCONTRACTED WORK ITEMS THROUGH SUBCONTRACTOR REQUEST FORMS (FORM 830231).
 - 10. MAKES INFORMATION TO DETERMINE PERMIT COMPLIANCE AVAILABLE TO THE DNR UPON THEIR REQUEST.
- F. INSPECTOR:
 - 1. UPDATES PPP THROUGH FIELDBOOK ENTRIES AND STORM WATER SITE INSPECTION REPORTS IF THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE WHICH HAS A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS FROM THE PROJECT.
 - 2. MAKES INFORMATION TO DETERMINE PERMIT COMPLIANCE AVAILABLE TO THE DNR UPON THEIR REQUEST.
 - 3. CONDUCTS JOINT REQUIRED INSPECTIONS OF THE SITE WITH THE CONTRACTOR/SUBCONTRACTOR.
 - 4. COMPLETES AN INSPECTION REPORT AFTER EACH INSPECTION.
 - 5. IS SIGNATURE AUTHORITY ON STORM WATER INSPECTION REPORTS.

II. PROJECT SITE DESCRIPTION

- A. THIS POLLUTION PREVENTION PLAN (PPP) IS FOR THE CONSTRUCTION OF A 130'-0 X 30'-6 CONTINUOUS CONCRETE SLAB ON HIGHWAY H33 OVER BROWN BRANCH OF EAST NODAWAY RIVIER IN ADAMS COUNTY, IOWA.
- B. THIS PPP COVERS APPROXIMATELY 1.9 ACRES WITH AN ESTIMATED 1.8 ACRES BEING DISTURBED. THE PORTION OF THE PPP COVERED BY THIS CONTRACT HAS 1.9 ACRES DISTURBED.
- C. THE PPP IS LOCATED IN AN AREA OF ONE SOIL ASSOCIATION(S) (SHARPSBURG-SHELBY-ADAIR). THE ESTIMATED WEIGHTED AVERAGE RUNOFF COEFFICIENT NUMBER FOR THIS PPP AFTER COMPLETION WILL BE 0.28.
- D. STORM WATER SITE MAP - MULTIPLE SOURCES OF INFORMATION COMPRISE THE BASE STORM WATER SITE MAP INCLUDING:
 - 1. DRAINAGE PATTERNS – SITUATION PLAN.
 - 2. PROPOSED SLOPES – CROSS SECTIONS
 - 3. AREAS OF SOIL DISTURBANCE – CONSTRUCTION LIMITS SHOWN ON SITUATION PLAN.
 - 4. LOCATION OF STRUCTURAL CONTROLS – TABULATIONS
 - 5. LOCATIONS OF NON-STRUCTURAL CONTROLS – TABULATIONS.
 - 6. LOCATIONS OF STABILIZATION PRACTICES – GENERALLY WITHIN CONSTRUCTION LIMITS SHOWN ON SITUATION PLAN.

- 7. SURFACE WATERS (INCLUDING WETLANDS) – PROJECT LOCATION MAP AND SITUATION PLAN.
- 8. LOCATIONS WHERE STORM WATER IS DISCHARGED – SITUATION PLAN.
- E. THE BASE STORM WATER SITE MAP IS AMENDED BY CONTRACT MODIFICATIONS AND PROGRESS PAYMENTS (FIELDBOOK ENTRIES) OF COMPLETED EROSION CONTROL WORK. ALSO, DUE TO PROJECT PHASING, EROSION AND SEDIMENT CONTROLS SHOWN ON PROJECT PLANS MAY NOT BE INSTALLED UNTIL NEEDED, BASED ON SITE CONDITIONS. FOR EXAMPLE, SILT FENCE DITCH CHECKS WILL TYPICALLY NOT BE INSTALLED UNTIL THE DITCH HAS BEEN INSTALLED. INSTALLED LOCATIONS WILL BE DOCUMENTED BY FIELDBOOK ENTRIES AND AMENDED PPP SITE MAP.
- F. RUNOFF FROM THIS WORK WILL FLOW INTO EAST NODAWAY RIVER.

III. CONTROLS

- A. THE CONTRACTOR'S ECIP SPECIFIED IN ARTICLE 2602.03 OF THE STANDARD SPECIFICATIONS FOR ACCOMPLISHMENT OF STORM WATER CONTROLS SHOULD CLEARLY DESCRIBE THE INTENDED SEQUENCE OF MAJOR ACTIVITIES AND FOR EACH ACTIVITY DEFINE THE CONTROL MEASURE AND THE TIMING DURING THE CONSTRUCTION PROCESS THAT THE MEASURE WILL BE IMPLEMENTED.
 - B. PRESERVE VEGETATION IN AREAS NOT NEEDED FOR CONSTRUCTION.
 - C. SECTIONS 2601 AND 2602 OF THE STANDARD SPECIFICATIONS DEFINE REQUIREMENTS TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES. ACTUAL QUANTITIES USED AND INSTALLED LOCATIONS MAY VARY FROM THE BASE PPP AND AMENDMENT OF THE PLAN WILL BE DOCUMENTED VIA FIELDBOOK ENTRIES, AMENDED PPP SITE MAP, OR BY CONTRACT MODIFICATION. ADDITIONAL EROSION AND SEDIMENT CONTROL ITEMS MAY BE REQUIRED AS DETERMINED BY THE INSPECTOR AND/OR CONTRACTOR DURING STORM WATER SITE INSPECTIONS. IF THE WORK INVOLVED IS NOT APPLICABLE TO ANY CONTRACT ITEMS, THE WORK WILL BE PAID FOR ACCORDING TO ARTICLE 1109.03 PARAGRAPH B OF THE STANDARD SPECIFICATIONS.
 - 1. EROSION AND SEDIMENT CONTROLS
 - a. STABILIZATION PRACTICES
 - 1) SITE PLANS WILL ENSURE THAT EXISTING VEGETATION OR NATURAL BUFFERS ARE PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED.
 - 2) INITIALIZE STABILIZATION OF DISTURBED AREAS IMMEDIATELY AFTER CLEARING, GRADING, EXCAVATING, OR OTHER EARTH DISTURBING ACTIVITIES HAVE:
 - a) PERMANENTLY CEASED ON ANY PORTION OF THE SITE, OR
 - b) TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.
 - 3) STAGED PERMANENT AND/OR TEMPORARY STABILIZING SEEDING AND MULCHING SHALL BE COMPLETED AS THE DISTURBED AREAS ARE COMPLETED. INCOMPLETE AREAS SHALL BE STABILIZED ACCORDING TO PARAGRAPH III, C, 1, a, 2, b ABOVE.
 - 4) PERMANENT AND TEMPORARY STABILIZATION PRACTICES TO BE USED FOR THIS PROJECT ARE LOCATED IN THE ESTIMATED PROJECT QUANTITIES AND ESTIMATE REFERENCE INFORMATION LOCATED IN THE PLANS. TYPICAL DRAWINGS DETAILING CONSTRUCTION OF THE PRACTICES TO BE USED ON THIS PROJECT ARE REFERENCED IN THE STANDARD ROAD PLANS TABULATION.
 - 5) PRESERVATION OF EXISTING VEGETATION WITHIN RIGHT-OF-WAY OR EASEMENTS WILL ACT AS VEGETATIVE BUFFER STRIPS.
 - 6) PRESERVATION OF TOPSOIL. BID ITEMS TO BE USED FOR THIS PROJECT ARE LOCATED IN THE ESTIMATED PROJECT QUANTITIES AND ESTIMATE REFERENCE INFORMATION LOCATED IN THE PLANS. ADDITIONAL INFORMATION MAY BE FOUND IN TABULATIONS OF THE PLANS OR IS REFERENCED IN STANDARD SECTION 2105 OF THE STANDARD SPECIFICATIONS.
 - b. STRUCTURAL PRACTICES
 - 1) STRUCTURAL PRACTICES WILL BE IMPLEMENTED TO DIVERT FLOWS FROM EXPOSED SOILS AND DETAIN OR OTHERWISE LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. ADDITIONALLY, STRUCTURAL PRACTICES MAY INCLUDE: SILT BASINS THAT PROVIDE 3600 CUBIC FEET OF STORAGE PER ACRE DRAINED OR EQUIVALENT SEDIMENT CONTROLS, OUTLET STRUCTURES THAT WITHDRAW WATER FROM SURFACE WHEN DISCHARGING BASINS, AND CONTROLS TO DIRECT STORM WATER TO VEGETATED AREAS.
 - 2) STRUCTURAL PRACTICES TO BE USED FOR THIS PROJECT ARE LOCATED IN THE ESTIMATED PROJECT QUANTITIES AND ESTIMATE REFERENCE INFORMATION, AS WELL AS ALL OTHER ITEM SPECIFIC TABULATIONS. TYPICAL DRAWINGS DETAILING CONSTRUCTION OF THE DEVICES TO BE USED ON THIS PROJECT CAN BE FOUND IN THE PLANS OR ARE REFERENCED IN THE STANDARD ROAD PLANS TABULATION.
 - c. STORM WATER MANAGEMENT
 - 1) MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER DISCHARGES THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED. THIS MAY INCLUDE VELOCITY DISSIPATION DEVICES AT DISCHARGE LOCATIONS AND ALONG LENGTH OF OUTFALL CHANNEL AS NECESSARY TO PROVIDE A NON-EROSION VELOCITY FLOW FROM STRUCTURE TO WATER COURSE. IF INCLUDED WITH THIS PROJECT, THESE ITEMS ARE LOCATED IN THE ESTIMATED PROJECT QUANTITIES AND ESTIMATE REFERENCE INFORMATION, AS WELL AS ALL OTHER ITEM SPECIFIC TABULATIONS. TYPICAL DRAWINGS DETAILING CONSTRUCTION OF THE PRACTICES TO BE USED ON THIS PROJECT ARE REFERENCED IN THE STANDARD ROAD PLANS TABULATION. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CLEAN WATER ACT.
2. OTHER CONTROLS
 - a. CONTRACTOR DISPOSAL OF UNUSED CONSTRUCTION MATERIALS AND CONSTRUCTION MATERIAL WASTES SHALL COMPLY WITH APPLICABLE STATE AND LOCAL WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC SYSTEM REGULATIONS. IN THE EVENT OF A CONFLICT WITH OTHER GOVERNMENTAL LAWS, RULES AND REGULATIONS, THE MORE RESTRICTIVE APPLICABLE LAWS, RULES OR REGULATIONS SHALL APPLY.
 - 1) VEHICLE ENTRANCES AND EXITS - CONSTRUCT AND MAINTAIN ENTRANCES AND EXITS TO PREVENT TRACKING OF SEDIMENTS ONTO ROADWAYS.
 - 2) MATERIAL DELIVERY, STORAGE AND USE - IMPLEMENT PRACTICES TO PREVENT DISCHARGE OF CONSTRUCTION MATERIALS DURING DELIVERY, STORAGE, AND USE.
 - 3) STOCKPILE MANAGEMENT - INSTALL CONTROLS TO REDUCE OR ELIMINATE POLLUTION OF STORM WATER FROM STOCKPILES OF SOIL AND PAVING.
 - 4) WASTE DISPOSAL - DO NOT DISCHARGE ANY MATERIALS, INCLUDING BUILDING MATERIALS, INTO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
 - 5) SPILL PREVENTION AND CONTROL - IMPLEMENT CHEMICAL SPILL AND LEAK PREVENTION AND RESPONSE PROCEDURES TO CONTAIN AND CLEAN-UP SPILLS AND PREVENT MATERIAL DISCHARGES TO THE STORM DRAIN SYSTEM AND WATERS OF THE STATE.
 - 6) CONCRETE RESIDUALS AND WASHOUT WASTES - WASTE SHALL NOT BE DISCHARGED TO A SURFACE WATER AND IS NOT ALLOWED TO ADVERSELY AFFECT A WATER OF THE STATE. DESIGNATE TEMPORARY CONCRETE WASHOUT FACILITIES FOR RINSING OUT CONCRETE TRUCKS. PROVIDE DIRECTIONS TO TRUCK DRIVERS WHERE DESIGNATED WASHOUT FACILITIES ARE LOCATED. DESIGNATED WASHOUT AREAS SHOULD BE LOCATED AT LEAST 50 FEET AWAY FROM STORM DRAINS, STREAMS OR OTHER WATER BODIES. CARE SHOULD BE TAKEN TO ENSURE THESE FACILITIES DO NOT OVERFLOW DURING STORM EVENTS.
 - 7) CONCRETE GROOVING/GRINDING SLURRY – DO NOT DISCHARGE SLURRY TO A WATERBODY OR STORM DRAIN. SLURRY MAY BE APPLIED ON FORESLOPES OR REMOVED FROM THE PROJECT.
 - 8) VEHICLE AND EQUIPMENT STORAGE AND MAINTENANCE AREAS - PERFORM ON SITE FUELING AND MAINTENANCE IN ACCORDANCE WITH ALL ENVIRONMENT LAWS SUCH AS PROPER STORAGE OF ONSITE FUELS AND PROPER DISPOSAL OF USED ENGINE OIL OR OTHER FLUIDS ON SITE. EMPLOY WASHING PRACTICES THAT PREVENT CONTAMINATION OF SURFACE AND GROUND WATER FROM WASH WATER. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
 - 9) LITTER MANAGEMENT - ENSURE EMPLOYEES PROPERLY DISPOSE OF LITTER. MINIMIZE EXPOSURE OF TRASH IF EXPOSURE TO PRECIPITATION OR STORM WATER WOULD RESULT IN A DISCHARGE OF POLLUTANTS.

- 10) DEWATERING – PROPERLY TREAT WATER TO REMOVE SUSPENDED SEDIMENT BEFORE IT RE-ENTERS A WATERBODY OR DISCHARGES OFF-SITE. MEASURES ARE ALSO TO BE TAKEN TO PREVENT SCOUR EROSION AT DEWATERING DISCHARGE POINT.
- 3. APPROVED STATE OR LOCAL PLANS
 - DURING THE COURSE OF THIS CONSTRUCTION, IT IS POSSIBLE THAT SITUATIONS WILL ARISE WHERE UNKNOWN MATERIALS WILL BE ENCOUNTERED. WHEN SUCH SITUATIONS ARE ENCOUNTERED, THEY WILL BE HANDLED ACCORDING TO ALL FEDERAL, STATE, AND LOCAL REGULATIONS IN EFFECT AT THE TIME.

IV. MAINTENANCE PROCEDURES

THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES IN PROPER WORKING ORDER, INCLUDING CLEANING, REPAIRING, OR REPLACING THEM THROUGHOUT THE CONTRACT PERIOD. THIS SHALL BEGIN WHEN THE FEATURES HAVE LOST 50% OF THEIR CAPACITY.

V. INSPECTION REQUIREMENTS

- A. INSPECTIONS SHALL BE MADE JOINTLY BY THE CONTRACTOR AND THE CONTRACTING AUTHORITY AT LEAST ONCE EVERY SEVEN CALENDAR DAYS. STORM WATER SITE INSPECTIONS WILL INCLUDE:
 - 1. DATE OF THE INSPECTION.
 - 2. SUMMARY OF THE SCOPE OF THE INSPECTION.
 - 3. NAME AND QUALIFICATIONS OF THE PERSONNEL MAKING THE INSPECTION.
 - 4. REVIEW OF EROSION AND SEDIMENT CONTROL MEASURES WITHIN DISTURBED AREAS FOR THE EFFECTIVENESS IN PREVENTING IMPACTS TO RECEIVING WATERS.
 - 5. MAJOR OBSERVATIONS RELATED TO THE IMPLEMENTATION OF THE PPP.
 - 6. IDENTIFICATION OF CORRECTIVE ACTIONS REQUIRED TO MAINTAIN OR MODIFY EROSION AND SEDIMENT CONTROL MEASURES.
- B. INCLUDE STORM WATER SITE INSPECTION REPORTS IN THE AMENDED PPP. INCORPORATE ANY ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES DETERMINED AS A RESULT OF THE INSPECTION. IMMEDIATELY BEGIN CORRECTIVE ACTIONS ON ALL DEFICIENCIES FOUND WITHIN 3 CALENDAR DAYS OF THE INSPECTION AND COMPLETE WITHIN 7 CALENDAR DAYS FOLLOWING THE INSPECTION. IF IT IS DETERMINED THAT MAKING THE CORRECTIONS LESS THAN 72 HOURS AFTER THE INSPECTION IS IMPRACTICABLE, IT SHOULD BE DOCUMENTED WHY IT IS IMPRACTICABLE AND INDICATE AN ESTIMATED DATE BY WHICH THE CORRECTIONS WILL BE MADE.

VI. NON-STORM WATER DISCHARGES

THIS INCLUDES SUBSURFACE DRAINS (I.E. LONGITUDINAL AND STANDARD SUBDRAINS) AND SLOPE DRAINS. THE VELOCITY OF THE DISCHARGE FROM THESE FEATURES MAY BE CONTROLLED BY THE USE OF HEADWALLS OR BLOCKS, CLASS A STONE, EROSION STONE OR OTHER APPROPRIATE MATERIALS. THIS ALSO INCLUDES UNCONTAMINATED GROUNDWATER FROM DEWATERING OPERATIONS, WHICH WILL BE CONTROLLED AS DISCUSSED IN SECTION III OF THE PPP.

- VII. POTENTIAL SOURCES OF OFF RIGHT-OF-WAY (ROW) POLLUTION
 - SILTS, SEDIMENT, AND OTHER FORMS OF POLLUTION MAY BE TRANSPORTED ONTO HIGHWAY RIGHT-OF-WAY (ROW) AS A RESULT OF A STORM EVENT. POTENTIAL SOURCES OF POLLUTION LOCATED OUTSIDE HIGHWAY ROW ARE BEYOND THE CONTROL OF THIS PPP. POLLUTION WITHIN HIGHWAY ROW WILL BE CONVEYED AND CONTROLLED PER THIS PPP.

VIII. DEFINITIONS

- A. BASE PPP - INITIAL POLLUTION PREVENTION PLAN.
- B. AMENDED PPP – BASE PPP AMENDED DURING CONSTRUCTION. MAY INCLUDE PLAN REVISIONS OR CONTRACT MODIFICATIONS FOR NEW ITEMS, STORM WATER SITE INSPECTION REPORTS, FIELDBOOK ENTRIES MADE BY THE INSPECTOR, AMENDED PPP SITE MAP BY THE CONTRACTOR, ECIP, NOI, CO-PERMITTEE CERTIFICATIONS, AND SUBCONTRACTOR REQUEST FORMS. ITEMS AMENDING THE PPP ARE STORED ELECTRONICALLY AND ARE READILY AVAILABLE UPON REQUEST.
- C. FIELDBOOK ENTRIES – THIS CONTAINS THE INSPECTOR'S DAILY DIARY AND BID ITEM POSTINGS.
- D. CONTROLS - METHODS, PRACTICES, OR MEASURES TO MINIMIZE OR PREVENT EROSION, CONTROL SEDIMENTATION, CONTROL STORM WATER, OR MINIMIZE CONTAMINANTS FROM OTHER TYPES OF WASTE OR MATERIALS. ALSO CALLED BEST MANAGEMENT PRACTICES (BMPs).
- E. SIGNATURE AUTHORITY - REPRESENTATIVE AUTHORIZED TO SIGN VARIOUS STORM WATER DOCUMENTS.

CERTIFICATION STATEMENT

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.


SIGNATURE


PRINTED OR TYPED NAME

POLLUTION PREVENTION PLAN

ADAMS COUNTY,

IOWA

BORING LOG NO. 3		STATION 22+11, 7'LT		CBA Job No.: 902-006		Project No.: 251178							
Project: 190th Street Bridge (Prescott 10) over Brown Branch, Sec. 16, Prescott Twp. Adams County, Iowa				Client: Calhoun-Burns & Associates, Inc. 6775 Vista Drive West Des Moines, Iowa 50266									
Surface Elevation: 1150.9'		Date Drilled: 5/1/2025		Drilling Method: 4" CFA									
Datum: Exist. W Abut. Elev. = 1151.00'		Drilling Depth, ft.: 75		Page: 1 of 1									
Elevation ft.	Depth ft.	Sample No.	Type	SPT bpf	Moisture Content, %	Dry Density pcf	Unconfined Compressive Strength psf	Material Description*	Graphic Log	USCS	Water Level	Depth ft.	Elevation ft.
0								HMA (0.5"±) over Reinforced PCC (7.5"±)				7	
		1	ST		18.3	102	3730	Very dark brown and brown sandy lean clay, trace gravel, moist		CL		1150.2	
								FILL				3.5	
		2	ST		23.2	92	1820	Very dark gray lean clay with sand, moist				1147.4	
1140	12	3	ST		27.7	-	2000**	COHESIVE ALLUVIUM (Stiff Silty Clay)					
		4	ST		34.5	76	900	Moisture seepage near 16' Very dark gray lean clay, moist		CL		16	
1128	24	5	ST		30.8	86						1134.9	
		6	ST		37.4	77	1110	Saturated sand seam near 25' Dark gray-brown lean clay, very moist after 26' COHESIVE ALLUVIUM (Soft Silty Clay)					
1116	36							Dark gray after 36'				40	
								Dark gray sandy lean clay, trace gravel, moist		CL		1110.9	
1104	48												
								GLACIAL TILL (Firm - Very Firm Glacial Clay)					
1092	60												
1080	72												
								End of Boring **Estimated using calibrated hand penetrometer				75	1075.9
*The stratification lines represent the approximate boundary lines between material types: in-situ, the transition may be gradual.													
Water Level Observation													
Time: at completion hrs. days													
Depth to water: 20 ft. ft. ft.													
ALLENDER BUTZKE ENGINEERS, INC.													
Geotechnical - Environmental - Construction Q.C.													

BORING LOG NO. 1		STATION 22+47, 7'RT		CBA Job No.: 902-006		Project No.: 251178							
Project: 190th Street Bridge (Prescott 10) over Brown Branch, Sec. 16, Prescott Twp. Adams County, Iowa				Client: Calhoun-Burns & Associates, Inc. 6775 Vista Drive West Des Moines, Iowa 50266									
Surface Elevation: 1151.0'		Date Drilled: 5/1/2025		Drilling Method: HSA									
Datum: Exist. W Abut. Elev. = 1151.00'		Drilling Depth, ft.: 76		Page: 1 of 1									
Elevation ft.	Depth ft.	Sample No.	Type	SPT bpf	Moisture Content, %	Dry Density pcf	Unconfined Compressive Strength psf	Material Description*	Graphic Log	USCS	Water Level	Depth ft.	Elevation ft.
0								Reinforced PCC (16"±)				1.3	
								Air				1149.7	
1140	12	1	SSA	7	16.8			Dark brown-gray lean clay with sand, damp to moist		CL		12.5	
		2	SSA	5				COHESIVE ALLUVIUM (Stiff Silty Clay)					
1128	24	3	SSA	5	29.8			Dark brown-gray silty fine to medium sand, saturated		SM		19.5	
		4	SSA	4	38.7			GRANULAR ALLUVIUM (Silty Sand)		CL		24.5	
								Dark gray lean clay, very moist				1126.5	
1116	36	5	SSA	1	35.5			COHESIVE ALLUVIUM (Soft Silty Clay)					
		6	SSA	8									
1104	48	7	SSA	9	18.5			Dark brown silty medium to coarse sand with gravel after 39.5'		SM		40.5	
		8	SSA	13	20.0			Dark gray sandy lean clay, trace gravel, moist		CL		1110.5	
		9	SSA	13	18.5								
1092	60	10	SSA	14	19.3			GLACIAL TILL (Firm - Very Firm Glacial Clay)					
		11	SSA	17	19.5								
1080	72	12	SSA	36	18.0			Dark gray sandy lean clay, trace gravel, moist		CL		65	
		13	SSA	20	17.9			GLACIAL TILL (Very Firm Sandy Glacial Clay)					
												76	
								End of Boring				1075	
*The stratification lines represent the approximate boundary lines between material types: in-situ, the transition may be gradual.													
Water Level Observation													
Time: at completion hrs. days													
Depth to water: 19.5 ft. ft. ft.													
ALLENDER BUTZKE ENGINEERS, INC.													
Geotechnical - Environmental - Construction Q.C.													

BORING LOG NO. 2		STATION 23+37, 6'RT		CBA Job No.: 902-006		Project No.: 251178							
Project: 190th Street Bridge (Prescott 10) over Brown Branch, Sec. 16, Prescott Twp. Adams County, Iowa				Client: Calhoun-Burns & Associates, Inc. 6775 Vista Drive West Des Moines, Iowa 50266									
Surface Elevation: 1150.9'		Date Drilled: 5/1/2025		Drilling Method: HSA									
Datum: Exist. W Abut. Elev. = 1151.00'		Drilling Depth, ft.: 76		Page: 1 of 1									
Elevation ft.	Depth ft.	Sample No.	Type	SPT bpf	Moisture Content, %	Dry Density pcf	Unconfined Compressive Strength psf	Material Description*	Graphic Log	USCS	Water Level	Depth ft.	Elevation ft.
0								HMA (0.5"±) over Reinforced PCC (6.5"±)					
		1	ST		17.1	105	2650	Brown-gray sandy lean clay, trace gravel, moist FILL		CL			0.6
								Very dark gray lean clay with sand, moist		CL			1150.3
													4.5
1140	12	2	SSA	5				COHESIVE ALLUVIUM (Stiff Silty Clay)					1146.4
		3	SSA	5	27.0								
		4	ST		26.3	94	810	Brown-gray lean clay, moist		CL			19.5
1128	24	5	ST		27.8	92	990						1131.4
		6	ST		25.4	97	1380	Dark gray after 29.5'					
								COHESIVE ALLUVIUM (Soft Silty Clay)					
1116	36	7	SSA	5	27.8								
		8	SSA	21									40.5
		9	SSA	11	17.0			Dark gray silty medium to coarse sand, trace gravel, saturated		SM			1110.4
1104	48	10	SSA	13	19.1			GRANULAR ALLUVIUM (Silty Sand)		CL			44.5
		11	SSA	15	18.1			Dark gray sandy lean clay, trace gravel, moist					1106.4
		12	SSA	18	18.2								
		13	SSA	18	18.7								
1092	60	14	SSA	19	16.9			GLACIAL TILL (Firm - Very Firm Glacial Clay)					
		15	SSA	20	16.8								
1080	72												
													76
								End of Boring					1074.9
*The stratification lines represent the approximate boundary lines between material types: in-situ, the transition may be gradual.													
Water Level Observation													
Time: at completion hrs. days													
Depth to water: ft. ft. ft.													
ALLENDER BUTZKE ENGINEERS, INC.													
Geotechnical - Environmental - Construction Q.C.													

SOUNDING DATA

(SEE "SITUATION PLAN", SHEET 4, FOR BORING LOCATIONS)

	I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.	
	DATE: 5/5/26	
	MY LICENSE RENEWAL DATE IS DECEMBER 31, 2027.	
	PAGES OR SHEETS COVERED BY THIS SEAL: 7 OF 15	

130'-0 x 30'-6 CONTINUOUS
CONCRETE SLAB BRIDGE

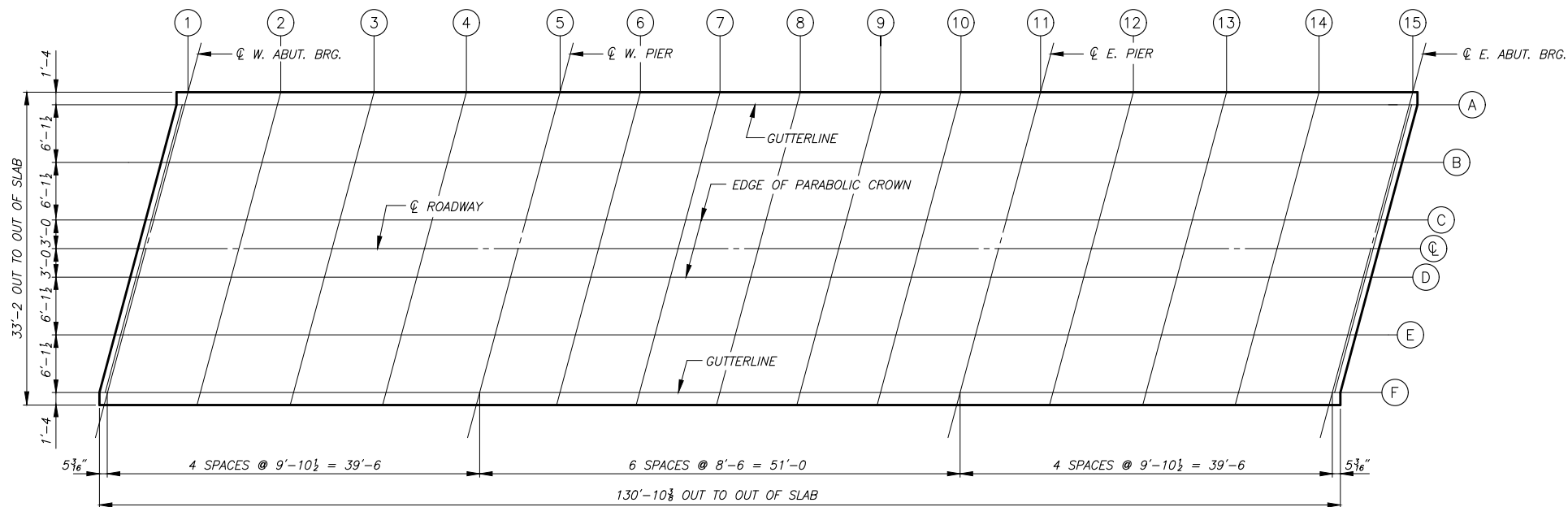
INTEGRAL ABUTMENTS
39'-6 END SPANS

P10L PIERS
51'-0 INTERIOR SPAN

SOUNDING DATA

STATION 22+75.00
ADAMS COUNTY,

15' SKEW, LT. AHEAD
IOWA



TOP OF SLAB ELEVATIONS



	℄ W. ABUT. BRG.					℄ BEARING W. PIER					℄ BRIDGE					℄ BEARING E. PIER					℄ E. ABUT. BRG.	
LOCATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	LOCATION						
A	1150.95	1150.90	1150.86	1150.82	1150.79	1150.77	1150.75	1150.74	1150.74	1150.74	1150.74	1150.75	1150.77	1150.80	1150.83	A						
B	1151.09	1151.04	1150.99	1150.96	1150.92	1150.90	1150.89	1150.87	1150.87	1150.87	1150.87	1150.88	1150.90	1150.92	1150.95	B						
C	1151.22	1151.17	1151.12	1151.08	1151.05	1151.03	1151.01	1151.00	1150.99	1150.99	1150.99	1151.00	1151.01	1151.04	1151.07	C						
℄	1151.26	1151.20	1151.16	1151.11	1151.08	1151.06	1151.04	1151.03	1151.02	1151.02	1151.02	1151.03	1151.04	1151.06	1151.09	℄						
D	1151.23	1151.18	1151.13	1151.09	1151.05	1151.03	1151.01	1151.00	1150.99	1150.99	1150.99	1151.00	1151.01	1151.03	1151.06	D						
E	1151.12	1151.06	1151.02	1150.97	1150.94	1150.91	1150.89	1150.88	1150.87	1150.87	1150.87	1150.87	1150.89	1150.91	1150.94	E						
F	1151.00	1150.94	1150.89	1150.85	1150.81	1150.79	1150.77	1150.75	1150.74	1150.74	1150.74	1150.74	1150.75	1150.77	1150.80	F						

BRIDGE COORDINATES			
LOCATION	NORTH EDGE OF DECK	C.L. APPROACH ROADWAY	SOUTH EDGE OF DECK
WEST ABUTMENT	N = 6242281.92 E = 22249893.17	N = 6242265.42 E = 22249888.45	N = 6242248.91 E = 22249883.73
WEST PIER	N = 6242281.26 E = 22249932.66	N = 6242264.75 E = 22249927.94	N = 6242248.25 E = 22249923.22
EAST PIER	N = 6242280.40 E = 22249983.66	N = 6242263.90 E = 22249978.94	N = 6242247.39 E = 22249974.22
EAST ABUTMENT	N = 6242279.74 E = 22250023.15	N = 6242263.24 E = 22250018.43	N = 6242246.73 E = 22250013.71

130'-0 x 30'-6 CONTINUOUS
CONCRETE SLAB BRIDGE

INTEGRAL ABUTMENTS
39'-6" END SPANS

P10L PIERS
51'-0" INTERIOR SPAN

SUPERSTRUCTURE DETAILS

STATION 22+75.00
ADAMS COUNTY,

15° SKEW, LT. AHEAD
IOWA

107.23
8/15/22

GRADING FOR GUARDRAIL INSTALLATIONS

Refer to EW-301.

(1) Lane(s) to which the installation is adjacent.

Line No.	Direction of Traffic (1)	Station	Side	Foreslope at Guardrail	X1 (FT)	Y1 (FT)	X2 (FT)	Y2 (FT)	X3 (FT)	Y3 (FT)	X4 (FT)	Y4 (FT)	Z (FT)	Excavation* Class 10 (CY)	Embankment-in-Place (CY)	Remarks
1.0	EB	22+00.43	Right	3:1	40.0	3.3					90.0	5.3	39.9	120.0		WEST END, RT.
2.0	WB	22+08.47	Left	3:1	40.0	3.3					90.0	5.3	39.9	90.0		WEST END, LT.
3.0	EB	23+41.53	Right	3:1	40.0	3.3					90.0	5.3	39.9	30.0		EAST END, RT.
4.0	WB	23+49.57	Left	3:1	40.0	3.3					90.0	5.3	39.9	120.0		EAST END, LT.

* DOES NOT INCLUDE 35% SHRINK FACTOR

108.08A
4/25/25

STEEL BEAM GUARDRAIL AT CONCRETE BARRIER OR BRIDGE RAIL END SECTION

Possible Standards: BA-200, BA-201, BA-202, BA-205, BA-206, BA-209, BA-210, BA-211, BA-225, BA-250, BA-260, LS-625, LS-626, LS-630, LS-635, SI-172, SI-173 and SI-211.

(1) Lane(s) to which the obstacle is adjacent.
(2) Not a bid item. Incidental to guardrail installation.

Line No.	Direction of Travel (1)	Side	Station	Offset (FT)	Barrier Transition Section	Barrier Transition Section (EA)	End Terminal	End Terminal Count (EA)	VT1 (LF)	VF (LF)	VT2 (LF)	ET (LF)	BA-211 Station	BA-211 (Type)	SI-211 (Type) (2)	Delineator SI-172 Type 1 (EA) (2)	Object Marker Type 2 (EA) (2)	Object Marker Type 3 Lt (EA) (2)	Object Marker Type 3 Rt (EA) (2)	Bolted End Anchor BA-202 (Type)	Bolted End Anchor BA-210 (EA)	Post Adapter BA-210 (EA)	Steel Beam Guardrail BA-200 (LF)	Remarks
1.0	EB	Right	22+00.43	15.8	BA-201	1	LS-625	1	40.625			50.00			2		3		1	A	1			WEST END, RT., LS-630
2.0	WB	Left	22+08.47	15.8	BA-201	1	LS-625	1	40.625			50.00			2		3	1		A	1			WEST END, LT., LS-630
3.0	EB	Right	23+41.53	15.8	BA-201	1	LS-625	1	40.625			50.00			2		3	1		A	1			EAST END, RT., LS-630
4.0	WB	Left	23+49.57	15.8	BA-201	1	LS-625	1	40.625			50.00			2		3		1	A	1			EAST END, LT., LS-630
Total:					4		4								2		2		4					

110.01
4/5/24

REMOVAL OF PAVEMENT

Refer to Tabulation 102-5.

* Not a bid item.

Line No.	Station From	Station To	Side	Pavement Type	Area (SY)	Saw Cut* (LF)	Remarks
1.0	21+49.57	22+24.90	Both	PCC	184.1	22.0	
2.0	23+27.00	24+00.43	Both	PCC	179.5	22.0	
Total:					363.6		

* EXISTING PAVEMENT IS APPROXIMATELY 50 FT. OF 8 IN. PCC APPROACH PAVING WITH 1" HMA OVERLAY AND HMA WITH UNKNOWN THICKNESS BEYOND APPROACH PAVING.

108.22
11/25/25

PAVEMENT MARKING LINE TYPES

Line factors based on 6-inch wide continuous line.
*BCY4 - Place on the same side of the roadway to match existing markings near the project.
**NPY4 - Estimating purposes only. No Passing Zone Lines will be located in the field.
***MNV6 - Factor of 1.00 includes number of 6-inch passes to cover median nose area.
BCY4: Broken Centerline (Yellow) @ 0.17
CBW6: Crosswalk Bar (White) @ 10.00
CLW6: Crosswalk Line (White) @ 2.00
DLW4: Dotted Line (White) @ 0.22
ELW6: Edge Line Right (White) @ 1.00
MNV6: Median Nose (Yellow) @ 1.00
RLY4: Ramp Edge Line Left (Yellow) @ 0.67
SPW4: Sloped Curb 4" (White) @ 2.16
STY6: Standard Curb 6" (Yellow) @ 2.03
BCY6: Broken Centerline (Yellow) @ 0.25
CHW8: Channelizing Line (White) @ 1.33
DCY4: Double Centerline (Yellow) @ 1.34
DLW6: Dotted Line (White) @ 0.33
ELY4: Edge Line Left (Yellow) @ 0.67
NPY4: No Passing Zone Line (Yellow) @ 0.84
RLY6: Ramp Edge Line Left (Yellow) @ 1.00
SPW6: Sloped Curb 6" (White) @ 2.28
YLW2: Yield Line (White) @ 1.15
BLC6: Broken Line Contrast (White/Black) @ 0.50
CHW10: Channelizing Line (White) @ 1.67
DCY6: Double Centerline (Yellow) @ 2.00
DLY4: Dotted Line (Yellow) @ 0.22
ELY6: Edge Line Left (Yellow) @ 1.00
NPY6: No Passing Zone Line (Yellow) @ 1.25
SLW2: Stop Line (White) @ 4.00
SPY4: Sloped Curb 4" (Yellow) @ 2.16
BLW4: Broken Lane Line (White) @ 0.17
CHY8: Channelizing Line (Yellow) @ 1.33
DDY4: Double Dotted Line (Yellow) @ 0.44
DLW6: Dotted Line (Yellow) @ 0.33
LDW8: Lane Drop (White) @ 0.33
RLW4: Ramp Edge Line Right (White) @ 0.67
SLW4: Solid Lane Line (White) @ 0.67
SPY6: Sloped Curb 6" (Yellow) @ 2.28
BLW6: Broken Lane Line (White) @ 0.25
CHY10: Channelizing Line (Yellow) @ 1.67
DDY6: Double Dotted Line (Yellow) @ 0.67
ELW4: Edge Line Right (White) @ 0.67
LDW10: Lane Drop (White) @ 0.42
RLW6: Ramp Edge Line Right (White) @ 1.00
SLW6: Solid Lane Line (White) @ 1.00
STW6: Standard Curb 6" (Yellow) @ 2.03

Line No.	Road ID	Station From	Station To	Lane	Marking Type	Left	Center	Right	Groove Marking Needed?	Groove Qty. (STA)	ELW4 (STA)	ELW4 Factored (STA)	NPY4** (STA)	NPY4** Factored (STA)	Remarks
1.0	H33	21+49.57	24+00.43	Both	Waterborne/Solvent Paint		X		No				2.51	2.11	
2.0	H33	21+49.57	24+00.43	Both	Waterborne/Solvent Paint			X	No		5.02	3.36			BOTH EDGES
3.0															TOTAL = 5.47

CBA-300

SURVEY CONTROL POINTS

Description	Northing	Easting	Approx. Station	Approx. Offset	Elevation
PT. 203, MAGNETIC SPIKE, SW SEC. COR.	6242285.74	22248678.62	10+00	0	-
PT. 205, MAGNETIC SPIKE, S 1/4 COR.	6242241.98	22251283.36	36+05	0	-
Coordinate System				Vertical Datum	
IOWA REGIONAL COORDINATE SYSTEM ZONE 12 RED OAK-OTTUMWA (NAD83-NSRS2011)				NAVD88	

CBA-101

SUMMARY OF EARTHWORK QUANTITIES

EXCAVATION TYPE	RAW CUT CY	RAW FILL CY	WASTE ** CY	USABLE CUT CY	SHRINKAGE FACTOR	FILL +35% SHRINKAGE CY	PAYMENT QUANTITY CY
CLASS 10, ROADWAY AND BORROW	620	360	134	486	35%	486	620
CLASS 10, CHANNEL	2,300	0	2,300	0	35%	0	2,300
TOTALS			2,434	486		486	

** ASSUMES SOME MATERIAL WILL BE UNSUITABLE (AND/OR EXCESS) AND WILL NEED TO BE WASTED OFF SITE.

130'-0 x 30'-6 CONTINUOUS
CONCRETE SLAB BRIDGE

INTEGRAL ABUTMENTS
39'-6 END SPANS

P10L PIERS
51'-0 INTERIOR SPAN

TABULATIONS

STATION 22+75.00
ADAMS COUNTY,

15' SKEW, LT. AHEAD
IOWA

CBA

CALHOUN-BURNS & ASSOCIATES, CONSULTING ENGINEERS
WEST DES MOINES, IOWA 50266
(515) 224-4344

JOB NO. 902-006

DESIGNED BY : _SD_
DRAWN BY : _LLF_
CHECKED BY : _JAR_

ADAMS COUNTY

PROJECT NO. BROS-C002(83)--5F-02

SHEET 10 OF 15

112.06
2/22/24

BRIDGE APPROACH SECTION
Refer to the BR Series.

* Not a bid item

Line No.	Bridge Station	End	Skew Ahead Left (Degrees)	Skew Ahead Right (Degrees)	(T) Thickness (IN)	Pay Length (FT)	Non-Reinf. Area (SY)	Single-Reinf. Area (SY)	Double-Reinf. Area (SY)	SRP Approach	SRP Abutment Type	SRP Abutting Pavement	Perforated * 4" Subdrain (LF)	Subdrain * Outlet (STA)	Subdrain * Outlet Side	Porous * Backfill (CY)	Class 'A' * Crushed Stone Backfill (CY)	Modified * Subbase (TON)	Polymer * Grid (SY)	Special * Backfill (TON)	Remarks	
1.0	22+75.00	W	15.0		10.0	60.0	97.8	72.0			Movable							210.000	200.0		BR-105, Abutting HMA	
2.0	22+75.00	E	15.0		10.0	60.0	97.8	72.0			Movable							210.000	200.0		BR-105, Abutting HMA	
Total:							195.6	144								420	400					

WIDTH OF REINFORCED APPROACH PAVEMENT = 32'-10

130'-0 x 30'-6 CONTINUOUS
CONCRETE SLAB BRIDGE

INTEGRAL ABUTMENTS
39'-6 END SPANS

P10L PIERS
51'-0 INTERIOR SPAN

TABULATIONS

STATION 22+75.00
ADAMS COUNTY,

15' SKEW, LT. AHEAD
IOWA

CBA

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WEST DES MOINES, IOWA 50266
(515) 224-4344

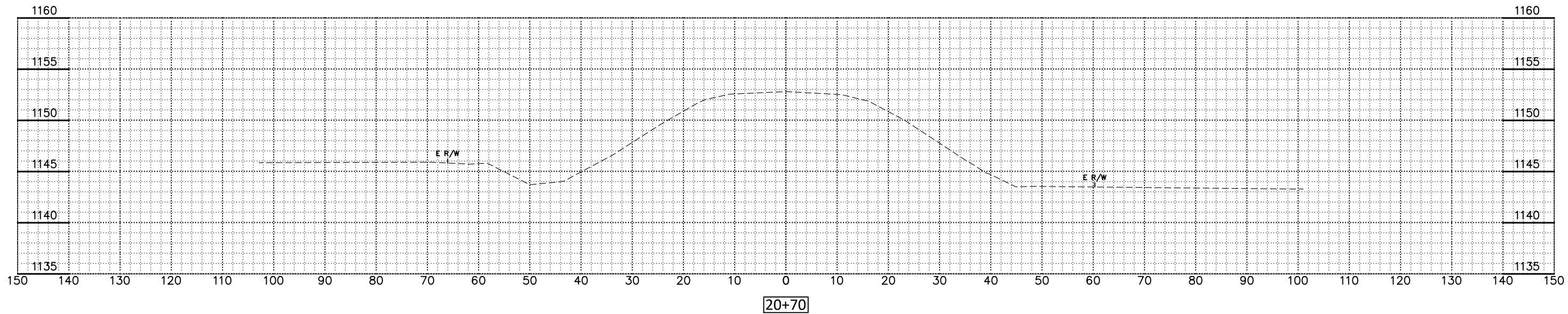
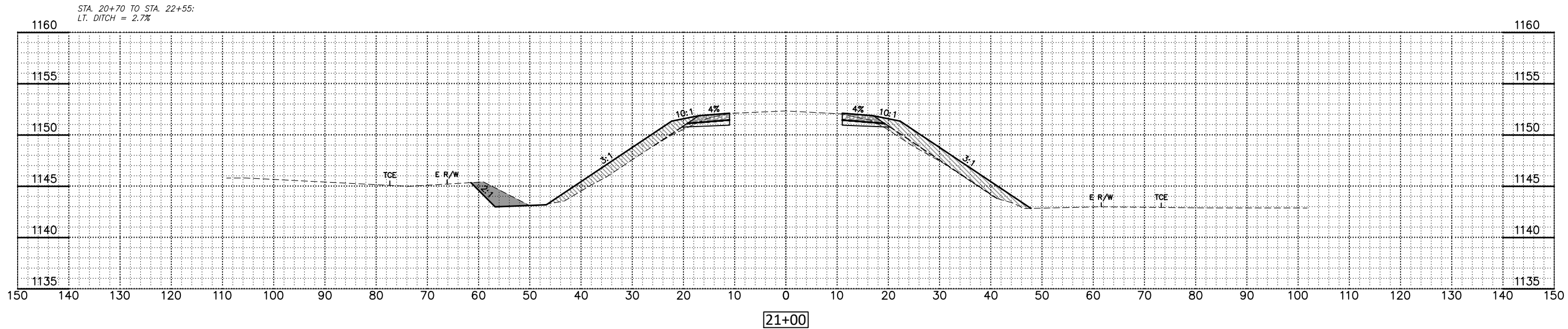
JOB NO. 902-006

DESIGNED BY : SD
DRAWN BY : LLF
CHECKED BY : JAR

ADAMS COUNTY

PROJECT NO. BROS-C002(83)--5F-02

SHEET 11 OF 15

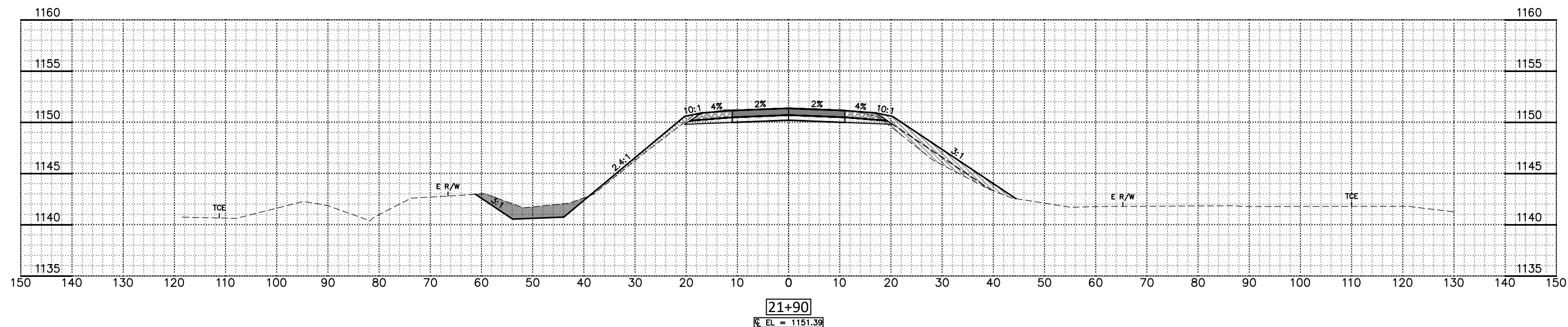
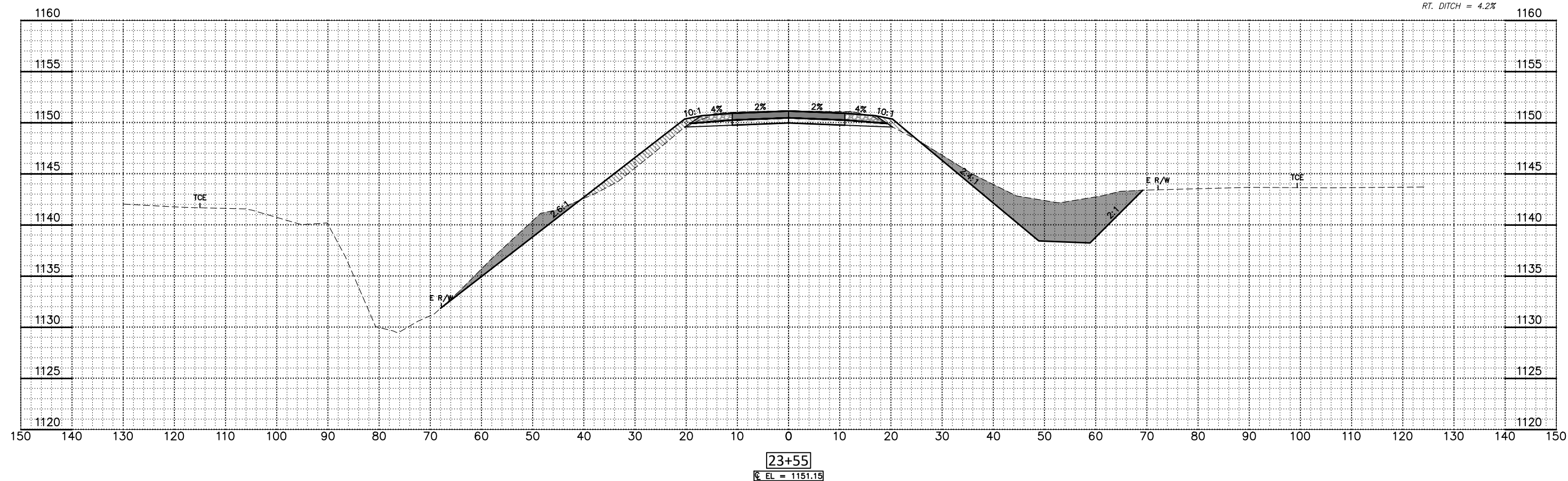


CROSS SECTIONS

ADAMS COUNTY,

IOWA

STA. 22+85 TO STA. 24+80:
RT. DITCH = 4.2%

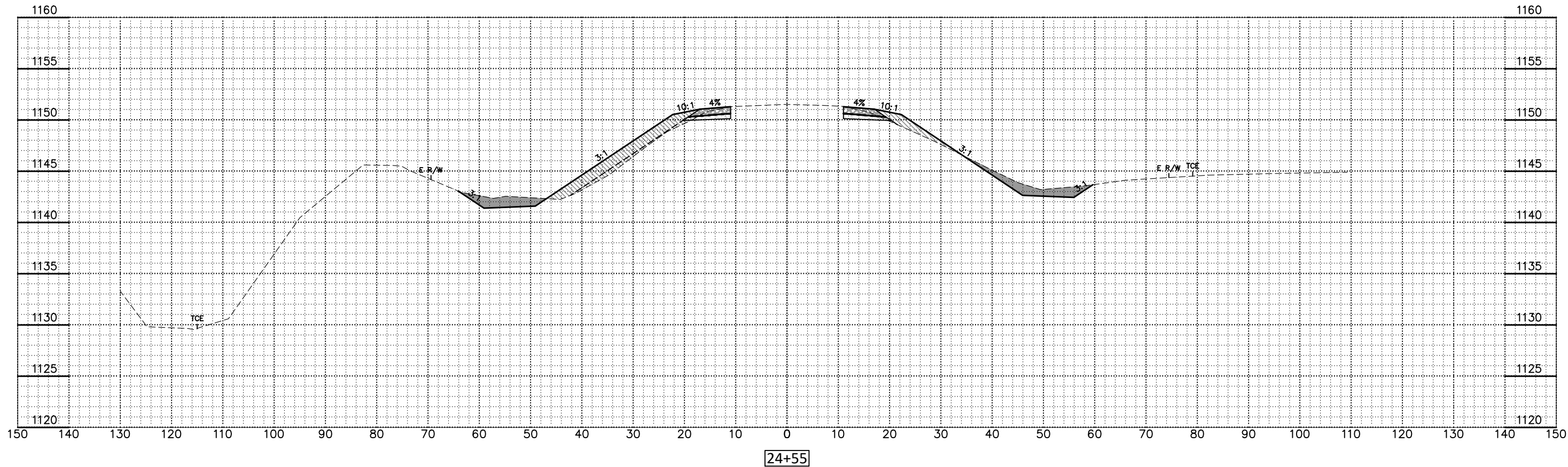
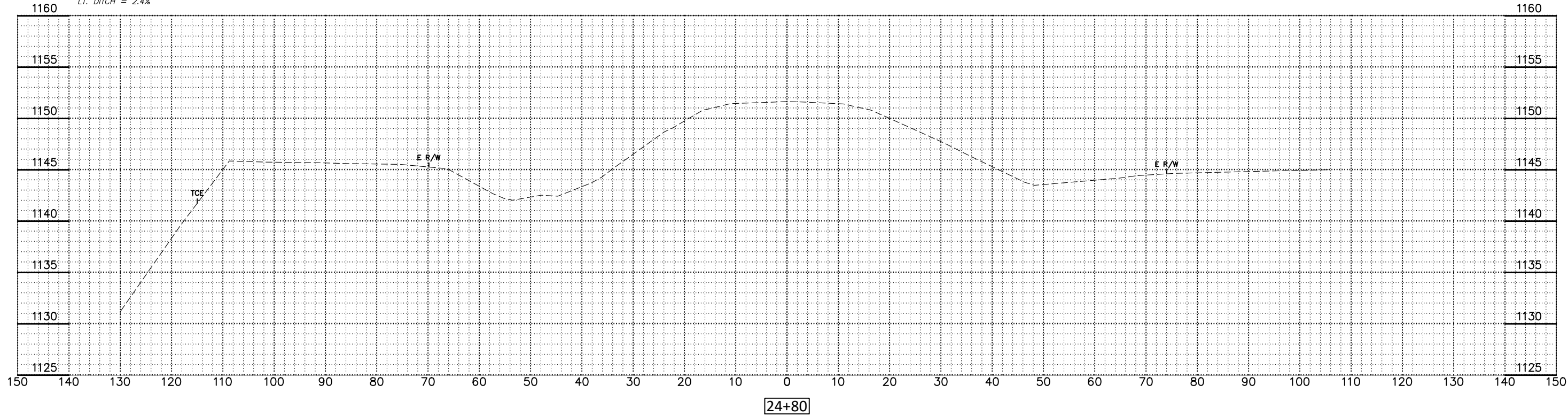


CROSS SECTIONS

ADAMS COUNTY,

IOWA

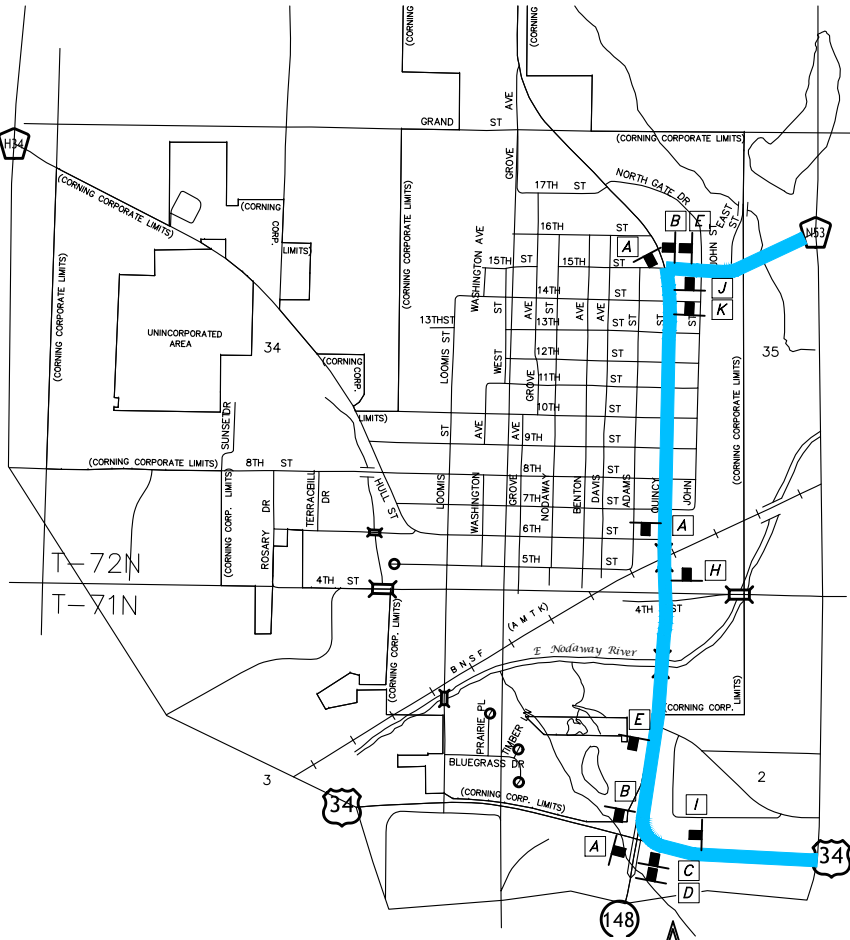
STA. 24+00 TO STA. 24+80:
LT. DITCH = 2.4%



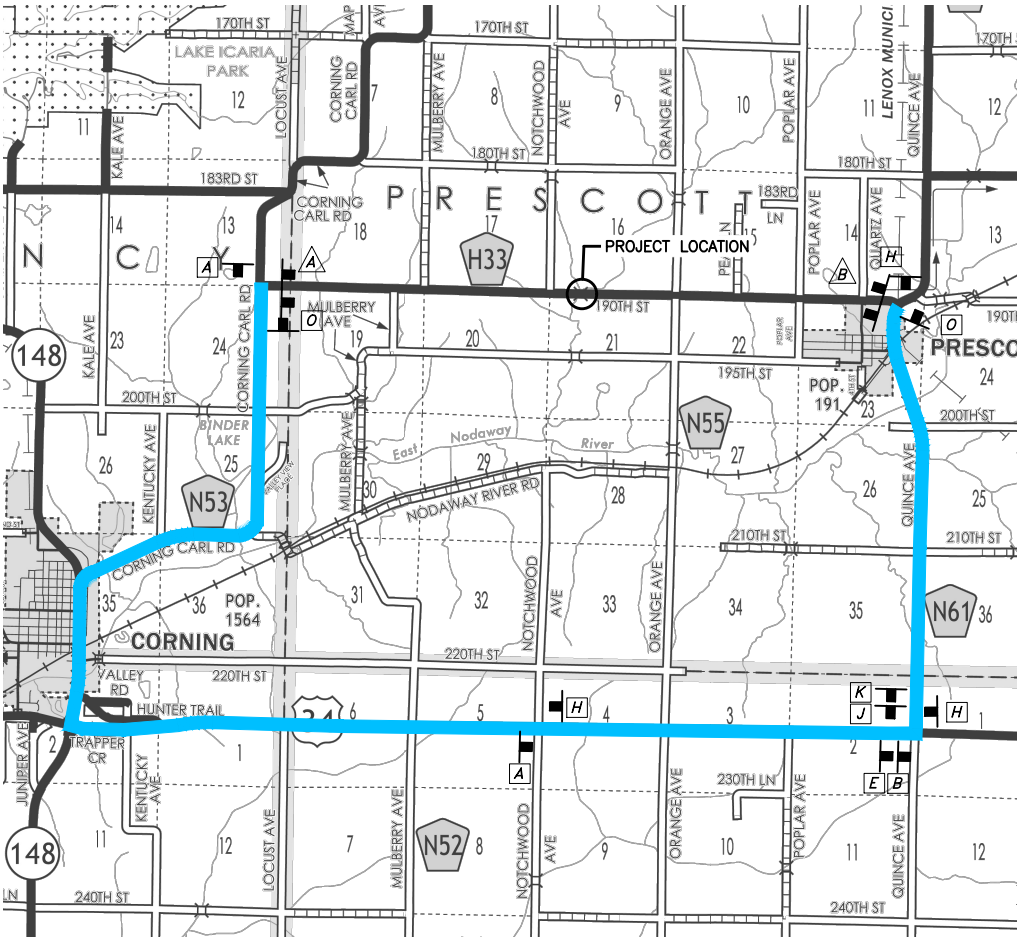
CROSS SECTIONS

ADAMS COUNTY,

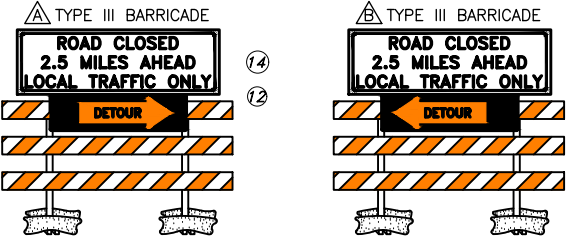
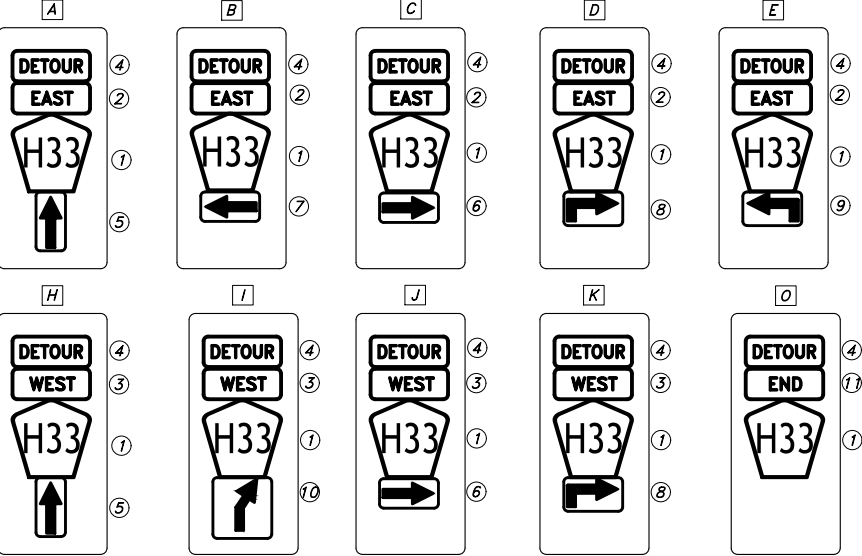
IOWA



CITY OF CORNING
(NOT TO SCALE)



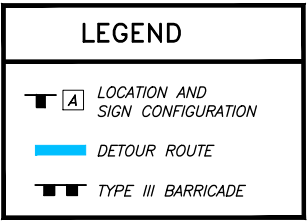
DETOUR SIGNAGE LAYOUT
(NOT TO SCALE)



TYPICAL SIGN CONFIGURATIONS
① INDICATE SIGN NUMBER (SEE TABULATION)

THE CONTRACTOR SHALL CONTACT TODD FRANK, DISTRICT 4 TRAFFIC TECHNICIAN, A MINIMUM OF 96 HOURS PRIOR TO ROAD CLOSURE:

TODD FRANK
DISTRICT 4 TRAFFIC TECHNICIAN
(O) 712-243-3355
EMAIL: TODD.FRANK@IOWADOT.US



GENERAL NOTES

THIS SHEET ILLUSTRATES TRAFFIC CONTROL NECESSARY TO DETOUR THE PROJECT ROUTE.

ALL "STOP" OR OTHER REGULATORY SIGNS ON SIDE ROADS ARE NOT TO BE DISTURBED. IF A "STOP" OR OTHER REGULATORY SIGN MUST BE MOVED, IT WILL BE RELOCATED BY THE CONTRACTING AUTHORITY.

TRAFFIC CONTROL PLAN

1. TRAFFIC CONTROL ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE DETOUR ROUTE SHOWN ON THIS SHEET AND STANDARD ROAD PLAN TC-252. THE PROJECT ROUTE WILL BE CLOSED TO TRAFFIC. TRAFFIC CONTROL DEVICES, PROCEDURES, AND LAYOUTS SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AS ADOPTED BY THE DEPARTMENT PER 761 OF THE IOWA ADMINISTRATION CODE (IAC) CHAPTER 130.
2. ROUTE WILL BE CLOSED TO VEHICULAR TRAFFIC DURING CONSTRUCTION.
3. THIS LAYOUT MAY NOT INCLUDE ALL BARRICADES AS MAY BE REQUIRED BY SECTION 2518 OF THE STANDARD SPECIFICATIONS OR ROAD STANDARD TC-252. HOWEVER, TRAFFIC CONTROL AT THE PROJECT LOCATION IS TO BE IN ACCORDANCE WITH SECTION 2518 OF THE STANDARD SPECIFICATIONS AND/OR ROAD STANDARD TC-252 AS REQUIRED.
4. ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR. ALL SIGNS SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR. EXACT LOCATIONS MAY BE FIELD ADJUSTED, PER ENGINEER'S APPROVAL, TO FIT CONDITIONS.
5. ALL SIGNS SHALL BE POST MOUNTED UNLESS NOTED OR OTHERWISE APPROVED BY THE ENGINEER. ALL TYPE III BARRICADES SHALL HAVE A MINIMUM OF 4 SAND BAGS.
6. WHERE POSSIBLE, ALL TRAFFIC CONTROL SIGNS SHALL BE PLACED A MINIMUM OF 18 FEET CLEAR OF THE ROADWAY IN RURAL AREAS. WHERE CARS AND GUTTER IS PRESENT, SIGNS SHALL BE PLACED A MINIMUM OF 2' CLEAR OF BACK OF CURB.
7. PROPOSED SIGN SPACING MAY BE MODIFIED, AS APPROVED BY THE ENGINEER, TO MEET EXISTING FIELD RESTRICTIONS, OR TO PREVENT OBSTRUCTION OF THE MOTORISTS VIEW OF PERMANENT SIGNING.
8. PROPOSED CHANGES IN THE TRAFFIC CONTROL PLAN SHALL BE REVIEWED WITH THE ENGINEER BEFORE CHANGES ARE MADE.
9. SAFETY CLOSURES SHALL BE PLACED IN ACCORDANCE WITH SECTION 2518 OF THE STANDARD SPECIFICATIONS AT THE LOCATIONS SPECIFIED IN THE "TABULATION OF SAFETY CLOSURE."
10. THE BID ITEM "TRAFFIC CONTROL" SHALL INCLUDE THE COST FOR ALL TRAFFIC CONTROL MEASURES REQUIRED OF THE CONTRACTOR EXCEPT FOR THOSE WHICH ARE SEPARATE BID ITEMS OR ARE INCIDENTAL TO OTHER BID ITEMS.
11. ALL CONTRACTOR FURNISHED TRAFFIC CONTROL SIGNS USED ON THIS PROJECT SHALL BE SHEETED WITH ENCAPSULATED LENS SHEETING.
12. TYPE C STEADY BURN WARNING LIGHTS ARE NOT REQUIRED FOR VERTICAL PANELS, BARRICADES, AND DRUMS WHEN THESE TRAFFIC CONTROL DEVICES ARE SHEETED WITH ENCAPSULATED LENS SHEETING.
13. POINTS OF ACCESS LOCATED WITHIN THE PROJECT LIMITS SHALL REMAIN ACCESSIBLE THROUGHOUT THE PROJECT. IF DUE TO CONSTRUCTION A POINT OF ACCESS MUST BE BLOCKED THE CONTRACTOR IS TO PROVIDE AN ALTERNATE POINT OF ACCESS APPROVED BY THE ENGINEER. ALL ALTERNATE ACCESS POINTS ARE INCIDENTAL TO THE BID ITEM "TRAFFIC CONTROL."

TABULATION OF DETOUR TRAFFIC SIGNS

NO.	DESCRIPTION	TYPE	QUANT.	SIZE
①	ADAMS COUNTY H33 (YELLOW ON BLUE)	M1-6	24	24"x24"
②	EAST (BLACK ON WHITE)	M3-1	13	24"x12"
③	WEST (BLACK ON WHITE)	M3-3	9	24"x12"
④	DETOUR (BLACK ON ORANGE)	M4-8	24	24"x12"
⑤	↑ (BLACK ON WHITE)	M6-3	9	21"x15"
⑥	→ (BLACK ON WHITE)	M6-1R	3	21"x15"
⑦	← (BLACK ON WHITE)	M6-1L	3	21"x15"
⑧	↗ (BLACK ON WHITE)	M5-1R	3	21"x15"
⑨	↖ (BLACK ON WHITE)	M5-1L	3	21"x15"
⑩	↘ (BLACK ON WHITE)	M5-2R	1	21"x15"
⑪	END (BLACK ON ORANGE)	M4-8b	2	24"x12"
⑫	→ DETOUR (ORANGE ON BLACK)	M4-10R	1	48"x18"
⑬	← DETOUR (ORANGE ON BLACK)	M4-10L	1	48"x18"
⑭	ROAD CLOSED, 2.5 MILES AHEAD, LOCAL TRAFFIC ONLY	R11-3A	2	60"x30"
A/B	TYPE III BARRICADE	-	2	-

130'-0 x 30'-6 CONTINUOUS
CONCRETE SLAB BRIDGE

INTEGRAL ABUTMENTS
39'-6 END SPANS

P10L PIERS
51'-0 INTERIOR SPAN

TRAFFIC CONTROL PLAN

STATION 22+75.00
ADAMS COUNTY,

15' SKEW, LT. AHEAD
IOWA