



HARDIN COUNTY
Board of Supervisors

Wednesday, July 22, 2020

NOTICE: Public attendance at public meetings is restricted due to COVID-19 concerns. To access and participate in the meetings remotely, please call (641) 939-8108 for meeting information.

1. 9:00 A.M. Call To Order
Courthouse Large Conference Room
2. Pledge Of Allegiance
3. Approval Of Agenda
4. Approval Of Minutes

Documents:

[07-15-2020 MINUTES.PDF](#)
[07-20-2020 MINUTES.PDF](#)

5. Approval Of Claims For Payment

Documents:

[VENDOR PUBLICATION REPORT 7-22-20.PDF](#)

6. Utility Permits & Secondary Roads Department
7. Approve Final Plans For BRS-SWAP-C042(63)—FF-42
Bridge 12015 Replacement, Co Hwy S27 over Tipton Creek

Documents:

[42-C042-063 FINAL PLANS.PDF](#)

8. Approve Final Plans For BROS-SWAP-C042(102)—SE-42
Bridge 11009 Replacement, M Avenue over South Fork

Documents:

[42-CO42-102 FINAL PLANS.PDF](#)

9. Tax Abatement: Ellsworth Neighborhood Investment Group

Documents:

[TAX ABATEMENT.PDF](#)

10. COVID-19 Update

11. Public Comments
12. Other Business
13. Adjournment/Recess
14. 9:30 A.M. Drainage
Courthouse Large Conference Room
15. 11:30 A.M. Motion For Closed Session Meeting Under Iowa Code Sections 21.5(1)(A)
And (C)
Courthouse Large Conference Room

HARDIN COUNTY BOARD OF SUPERVISORS
MINUTES – JULY 15, 2020
WEDNESDAY - 9:00 A.M.
COURTHOUSE LARGE CONFERENCE ROOM

Chair Lance Granzow called the meeting to order. The meeting was held electronically due to COVID-19 public health risks. Also in attendance were Supervisors BJ Hoffman and Reneé McClellan; and Justin Ites, Angela De La Riva, Dave Dunn, Becca Junker, JD Holmes, Megan Harrell, Curt Groen, Rocky Reents, Dave McDaniel, Tifani Eisentrager, Jessica Lara, Kerri Johannsen, Linn Adams, Julie Duhn, Bret Dublinske, Mariah Lynne, Josh Odom, Jake Ketzner, Abby Flatness, Megan Kirik, Pauline Lloyd, Darla Kalous, Bette Dossman, Tony Baranowski, Jessica Sheridan, Max Friedman, Donna Juber, Bob Juber, Micah Cutler, Floyd Hammer, Taylor Roll, Michael Pearce, Matt Jones, Thomas Craighton, Lori Kadner, Darrell Meyer, and Angela Silvey.

The Pledge of Allegiance was recited.

McClellan moved, Hoffman seconded to approve the agenda as posted. Motion carried.

Due to technical difficulties, Hoffman moved, McClellan seconded to recess until 9:20 a.m. to allow remote attendees time to log in with new Zoom meeting information. Motion carried.

At 9:20 a.m. the Chair reconvened the meeting.

Hoffman moved, McClellan seconded to approve the second consideration of the amendment to Article XXIII of Ordinance No. 29 as modified by the Board of Supervisors. Granzow asked if Hoffman or McClellan would be willing to revert to the 3 X Total Height dwelling unit setback for C-WECS as recommended by the Zoning Board. Hoffman stated he believed that setback was already in the amendment and reiterated there are two means of relief available to developers: 1) waiver from property owners and 2) contest to the Variance Board. Roll Call Vote: “Ayes” Hoffman, McClellan, and Granzow. “Nays” None. Motion carried.

Hoffman moved, McClellan seconded to set July 23, 2020, at 9:01 a.m., in the large conference room and via Zoom, for the final consideration and adoption of the amendment to Article XXIII of Ordinance No. 29 as modified by the Board of Supervisors. Roll Call Vote: “Ayes” Hoffman, McClellan, and Granzow. “Nays” None. Motion carried.

Hoffman moved, McClellan seconded to approve the minutes of July 8, 2020. Motion carried.

McClellan moved, Hoffman seconded to approve the July 15, 2020 claims for payment. Motion carried.

Utility Permits: None.

Secondary Roads: No report.

Hoffman moved, McClellan seconded that the following Resolution No. 2020-31, Resolution for Road Reclassification Public Hearing, be approved. Roll Call Vote: “Ayes” Hoffman, McClellan, and Granzow. “Nays” None. Resolution No. 2020-31 is hereby adopted as follows:

RESOLUTION FOR ROAD RECLASSIFICATION PUBLIC HEARING

Hardin County

Resolution No. 2020-31

WHEREAS, A petition has been filed with the Hardin County Engineer asking that action be taken to reclassify a section of Hardin County Secondary Road to Class C, described as follows:

A portion of GG Avenue, originally established on the 24th of June, 2020, lying in Section 12, T-88N, R-22W, Buckeye Township of Hardin County, Iowa. The extent of this road reclassification is the portion of the roadway commencing at the North Right-of-Way line of 180th Street, thence running in a northerly direction approximately one-quarter mile to the terminus.

NOW, THEREFORE BE IT RESOLVED that a hearing on the proposed reclassification will be held in the Conference Room, Hardin County Courthouse, Eldora, Iowa 50627 at 9:01 A.M. on the 5th Day of August, 2020 in accordance with Iowa Code Chapter 306.

/s/ Lance Granzow

Lance Granzow, Chairperson
Hardin County Board of Supervisors

ATTEST: /s/ Jessica Lara
Jessica Lara, Hardin County Auditor

DATE: 7/15/2020

McClellan moved, Hoffman seconded to table the tax abatement for Ellsworth Neighborhood Investment Group until the July 22, 2020 meeting. Motion carried.

Hoffman moved, McClellan seconded to approve the discharge of Mindy McLeland from the role of County Safety Coordinator, effective 07/01/2020. Motion carried.

Hoffman moved, McClellan seconded to approve the hiring of Michael Pearce, IT Network Specialist, as County Safety Coordinator, at a rate to be determined, effective 07/01/2020. The role will be added to Pearce's current job responsibilities. Motion carried.

McClellan moved, Hoffman seconded to approve the pay increase of Angela De La Riva, Economic Development Director, to \$60,650/year, effective 07/15/2020. Hoffman stated the increase is a result of De La Riva's performance review and salary surveys. Motion carried.

Hoffman moved, McClellan seconded to approve the pay increase of Jessica Sheridan, Environmental Health Specialist and Zoning Administrator, to \$45,000/year, effective 07/15/2020. Hoffman stated the increase is a result of Sheridan's performance review and salary surveys, and he would like to reevaluate in six months. Motion carried.

McClellan moved, Hoffman seconded to approve the pay increase of Jody Mesch, Property Manager, to \$73,000/year, effective 07/15/2020. Hoffman stated the increase is a result of Mesch's performance review, and Granzow noted that the pandemic has added to Mesch's duties. Motion carried.

Hoffman moved, McClellan seconded to approve the promotion of Sophia Lupkes, Dispatcher, at a rate of \$17.26/hour, effective 07/25/2020. Motion carried.

McClellan moved, Hoffman seconded to approve the hiring of Emma Lee Inks, part-time Correctional Officer, at a rate of \$16.48/hour, effective 07/15/2020. Motion carried.

COVID-19 Update:

Emergency Management Coordinator Thomas Craighton spoke about PPE supply chain, event accommodations, and grants. Rocky Reents is working with schools on Return to Learn plans.

Matt Jones, IT Director, presented on the Alibi fever detection module and, after discussion, the following action was taken:

McClellan moved, Hoffman seconded to approve the purchase of three Alibi fever detection modules, one each for the Courthouse, County Office Building, and Sheriff's Office. Granzow advised a policy needed to be put into place before the modules are deployed. Motion carried.

Public Comments:

Floyd Hammer lodged a complaint about the quality of gravel applied to his road.

Other Business:

Hoffman relayed concerns about individuals' use of Courthouse grounds without a permit. McClellan remarked there's a fine line between requiring a permit and allowing assembly on publicly-owned ground. County Attorney Darrell Meyer will examine the existing policy and permit for possible amendments.

Hoffman moved, McClellan seconded to adjourn. Motion carried.

Lance Granzow, Chair
Board of Supervisors

Jessica Lara
Hardin County Auditor

HARDIN COUNTY BOARD OF SUPERVISORS
MINUTES – JULY 20, 2020
MONDAY - 9:00 A.M.
COURTHOUSE LARGE CONFERENCE ROOM

Chair Lance Granzow called the meeting to order. Also present were Supervisors BJ Hoffman and Reneé McClellan; and Angela De La Riva, Darrell Meyer, Jessica Sheridan, and Angela Silvey.

Hoffman moved, McClellan seconded to go into closed session pursuant to Iowa Code 21.5(1)(c) for pending litigation. Roll Call Vote: “Ayes” Hoffman, McClellan, and Granzow. “Nays” None. Motion carried.

Following discussion, Hoffman moved, McClellan seconded to return to open session. Roll Call Vote: “Ayes” Hoffman, McClellan, and Granzow. “Nays” None. Motion carried.

At 10:02 a.m., McClellan moved, Hoffman seconded to adjourn. Motion carried.

Lance Granzow, Chair
Board of Supervisors

Jessica Lara
Hardin County Auditor

Claims Payable - July 22, 2020

Ag Machinery Service LLC	\$120.00
Agri-Pro Enterprises of Iowa Inc	\$729.60
AgVantage FS	\$26,000.45
Airgas North Central	\$734.82
Alliant Energy	\$10,847.98
Angela De La Riva	\$260.10
Black Hills Energy	\$32.08
Casey's General Store	\$27.28
Casey's General Store	\$40.00
Cedar Valley Medical Specialists, PC	\$48.00
CenturyLink	\$17.43
CenturyLink	\$371.44
Cintas	\$710.95
Cintas Corporation	\$81.67
City of Iowa Falls	\$181.43
City of New Providence	\$4,946.15
City of Radcliffe	\$68.86
City of Steamboat Rock	\$4,841.00
City of Union	\$2,816.94
City of Whitten	\$1,109.38
CivicPlus LLC	\$5,059.76
Clapsaddle-Garber Assoc	\$460.00
Coleman Moore Co.	\$7,718.00
Concrete Inc	\$1,270.00
Cooley Pumping LLC	\$405.00
Craig Babcock	\$413.04
Denco Corp	\$34,023.50
Des Moines Stamp Mfg Co	\$32.40
Donnlee Jackson	\$390.00
Franklin Rural Elec Co-Op	\$30.00
Galls Incorporated	\$82.92
Gary McEwen	\$375.00
Hardin Co Firemans Assoc.	\$1,000.00
Honey Creek Cemetery	\$104.00
Iowa Law Enforcement Academy	\$1,250.00
ISAC	\$375.00
Jeff Fiscus	\$102.67
John Deere Financial	\$879.42
Larry's Upholstery	\$396.00
Mail Services LLC	\$568.30
Martin Marietta Aggregate	\$4,541.81
McKesson Medical Surgical	\$130.46
Mend Correctional Care PLLC	\$95.00
Mid American Energy	\$45.87
Mid-America Publishing Corp	\$1,037.34
Mike Murphy	\$250.00
Miller Cemetery	\$52.00
Murphy Tractor & Equipment	\$2,156.28
New Providence Hardware	\$38.97
PegEx Inc Hazardous Waste Experts	\$141.00
Premier Office Equipment	\$869.79
Public Employee Health Fund	\$1,511.76
Quaker Security LLC	\$2,295.00
Renee Springston	\$8.30
Reserve Account	\$10,000.00
Ryan McEwen	\$230.00
Sadler Power Train Inc	\$2,407.08
Shield Pest Control	\$135.00
Speck Electric	\$281.38
Storey Kenworthy	\$43.26
Summit Food Service LLC	\$3,821.36
Superior Welding Supply	\$45.00
Tele-Difference LLC	\$160.00
The Davis Brown Law Firm	\$550.00
Theisens	\$166.24
Thomas Craighton	\$618.00
Titan Machinery	\$281.55
Tyler Technologies Inc	\$275.00
Union Auto Inc.	\$291.34
Verizon Connect Nwf, Inc	\$18.19

Wesley Wiese	\$40.00
Wilcox Equipment	\$63.26
Woodley Funeral Services LLC	\$325.00

Grand Total	\$141,845.81
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Lance Granzow, Chair
Board of Supervisors

Jessica Lara
Hardin County Auditor

BRS-SWAP-CO42(63)--FF-42

LETTING DATE OCTOBER 20, 2020

HARDIN COUNTY
BRIDGE REPLACEMENT - CCS

SECTION 404 PERMIT AND CONDITIONS
281-1
10-18-16
CONSTRUCT THIS PROJECT ACCORDING TO THE REQUIREMENTS OF U.S. ARMY CORPS OF ENGINEERS NATIONWIDE PERMIT NO. 14, PERMIT NO. CEMVR-OD-P-2020-0282. A COPY OF THIS PERMIT IS AVAILABLE FROM THE IOWA DOT WEBSITE (<http://www.enrpermits.iowadot.gov/>). THE U.S. ARMY CORPS OF ENGINEERS RESERVES THE RIGHT TO VISIT THE SITE WITHOUT PRIOR NOTICE.

AN IOWA DNR FLOODPLAIN CONSTRUCTION PERMIT IS NOT REQUIRED FOR THIS PROJECT.

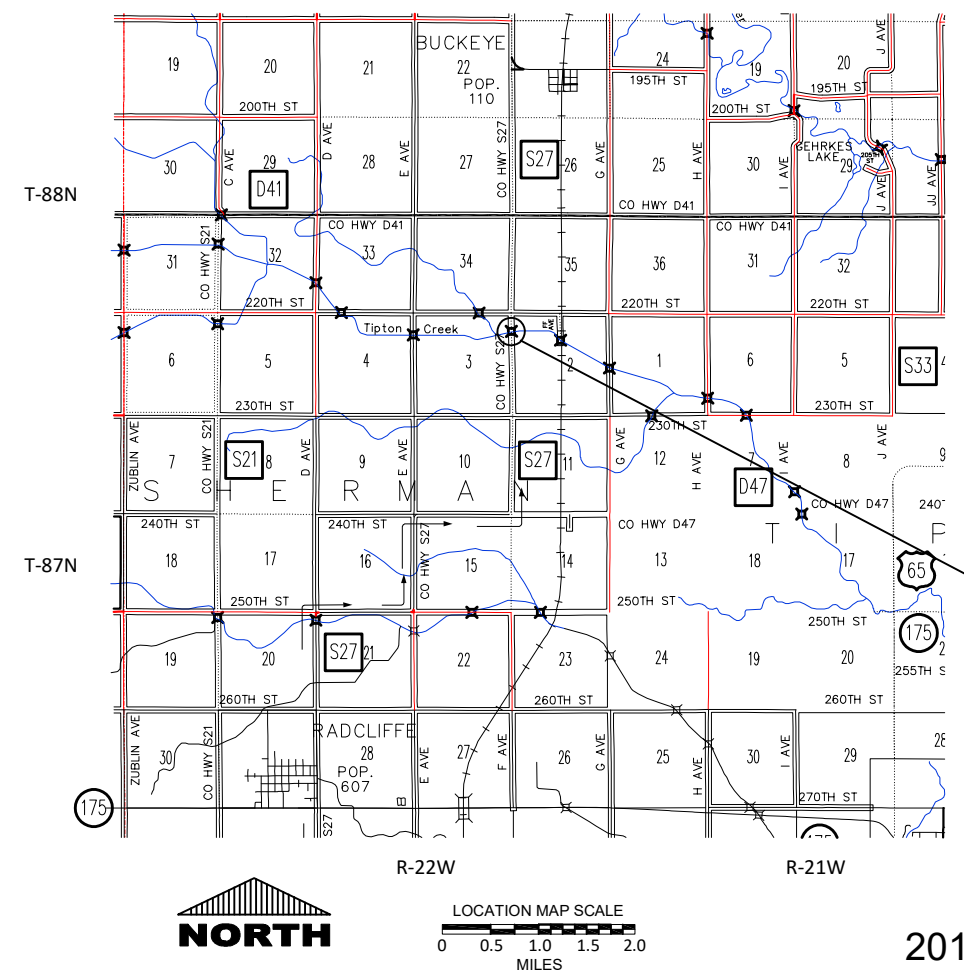
UTILITY CONTACTS
NO KNOWN UTILITIES IN AREA

IOWA
DEPARTMENT OF TRANSPORTATION
HIGHWAY DIVISION
PLANS OF PROPOSED IMPROVEMENT ON THE
**FARM TO MARKET SYSTEM
HARDIN COUNTY
BRIDGE REPLACEMENT-CCS**
ON S27, OVER TIPTON CREEK, FROM D41 SOUTH 1.1
MILES IN SECTION 2-T87-R22

REFER TO THE PROPOSAL FORM FOR LIST OF APPLICABLE SPECIFICATIONS.

PROJECT TRAFFIC CONTROL PLAN
THIS ROAD WILL BE CLOSED TO THROUGH TRAFFIC DURING CONSTRUCTION. LOCAL TRAFFIC TO ADJACENT PROPERTIES WILL BE MAINTAINED. ALL BARICADES, SIGNS, AND SAFETY CLOSURES SHALL BE FURNISHED, PLACED, AND MAINTAINED BY THE CONTRACTOR. TRAFFIC WILL BE MAINTAINED ON A DETOUR ROUTE. HARDIN COUNTY WILL PROVIDE, MAINTAIN, AND REMOVE DETOUR ROUTE. TRAFFIC CONTROL DEVICES, PROCEDURES, LAYOUTS, SIGNING, AND PAVEMENT MARKINGS INSTALLED WITHIN THE LIMITS OF THIS PROJECT SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AS ADOPTED BY THE DEPARTMENT PER 761 OF THE IOWA ADMINISTRATIVE CODE (IAC) CHAPTER 130.

DRAWING APPROVAL
ALL SHOP DRAWINGS AND FALSEWORK DRAWINGS THAT REQUIRE APPROVAL SHALL BE SUBMITTED TO AND SIGNED BY A LICENSED ENGINEER. THE APPROVED DRAWINGS SHALL THEN BE SUBMITTED TO HARDIN COUNTY ENGINEERS OFFICE, FOR REVIEW AND APPROVAL.
ADDRESS: 708 16TH ST.
ELDORA, IA 50627
TELEPHONE: 641.888.5058
FAX: 641.858.3182
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. OFFICE OF BRIDGES AND STRUCTURES.



STA 358+01
PROPOSED 110'-0 x 30'-6
CONTINUOUS CONCRETE
SLAB BRIDGE
FHWA# 175790



INDEX OF SHEETS

NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATE OF QUANTITIES AND REFERENCE NOTES
3	SITUATION PLAN AND LONGITUDINAL SECTION
4	GENERAL PLAN
5	PROFILE
6-8	SOUNDING DATA
9-10	TABULATIONS
11	SUPERSTRUCTURE DETAILS

MILEAGE SUMMARY

DIV.	LOCATION	LIN.FT.	MILES
	STA 356+04 - 359+94	390	0.074
	BRIDGE AT STA. 358+01		
TOTAL PROJECT			0.074

STANDARD ROAD PLANS

THE FOLLOWING STANDARD PLANS SHALL BE CONSIDERED APPLICABLE TO CONSTRUCTION WORK ON THIS PROJECT.

IDENTIFICATION	DATE	IDENTIFICATION	DATE	IDENTIFICATION	DATE
BA-200	04-16-19	DR-211	04-21-20	PV-101	04-21-20
BA-202	10-20-15	EW-301	10-20-15	SI-172	04-19-16
BA-221	04-18-17	EW-401	10-20-15	SI-173	04-19-16
BA-225	10-17-17	EW-501	10-20-15	SI-211	10-18-16
BR-102	10-17-17	LS-635	10-18-16	TC-252	04-21-20
DR-104	04-19-16	PM-110	04-21-20		

BRIDGE STANDARDS

THE FOLLOWING BRIDGE STANDARDS SHALL BE CONSIDERED APPLICABLE TO CONSTRUCTION WORK ON THIS PROJECT.

STANDARD	DATE ISSUED	LATEST REVISION	STANDARD	DATE ISSUED	LATEST REVISION
J30-01-06	NOVEMBER, 2006	06-13	J30-34-06	NOVEMBER, 2006	06-13
J30-01A-06	NOVEMBER, 2006	06-13	J30-39-06	NOVEMBER, 2006	07-09
J30-10E-06	NOVEMBER, 2006	07-2016	J30-43-06	NOVEMBER, 2006	12-08
J30-11E-06	NOVEMBER, 2006	07-09	J30-44-06	NOVEMBER, 2006	07-2016
J30-20-06	NOVEMBER, 2006	06-12	J30-45-06	NOVEMBER, 2006	12-08
J30-21-06	NOVEMBER, 2006	07-09	J30-46-06	NOVEMBER, 2006	09-14
J30-23-06	NOVEMBER, 2006	05-14	J30-47-06	NOVEMBER, 2006	07-2016
J30-24-06	NOVEMBER, 2006	07-09	P10L		07-2019

Lance Granzow Chairperson
BJ Hoffman
Renee McClellan
Approved Board of Supervisors



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.
Signature: TAYLOR CASEY ROLL Date: _____
Printed or Typed Name: TAYLOR CASEY ROLL
My license renewal date is: December 31, 2021
Pages or sheets covered by this seal: Sheets 1 thru 11

ESTIMATED QUANTITIES

ITEM NO.	ITEM CODE	ITEM	UNIT	2 ABUTS.	2 PIERS	SUPER	TOTAL	AS BUILT
1	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CY				667.0	
2	2104-2710020	EXCAVATION, CL 10, CHANNEL	CY				210.0	
3	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CY				500.0	
4	2115-0100000	MODIFIED SUBBASE	CY				62.6	
5	2121-7425020	GRANULAR SHOULDERS, TYPE B	TON				79.0	
6	2123-7450020	SHOULDER FINISHING, EARTH	STA				5.60	
7	2301-0690210	BRIDGE APPROACH, TWO LANE	SY				389.2	
8	2301-1033080	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 8 IN.	SY				317.8	
9	2401-6745625	REMOVAL OF EXISTING BRIDGE	LS				1.00	
10	2402-2720000	EXCAVATION, CL 20	CY				111	
11	2403-0100010	STRUCTURAL CONCRETE (BRIDGE)	CY	22.2		234.3	256.5	
12	2404-7775005	REINFORCING STEEL, EPOXY COATED	LB	3116		62,970	66,086	
13	2414-6424124	CONCRETE OPEN RAIL, TL-4	LF				242.0	
14	2422-0360018	APRON, UNCLASSIFIED, 18 IN., INSTALL ONLY	EACH				4	
15	2422-1722018	CULVERT, UNCLASSIFIED ENTRANCE PIPE, 18 IN., INSTALL ONLY	LF				80	
16	2501-0201042	PILE, STEEL, HP 10X42	LF	10 @ 50'	20 @ 60'		1700	
17	2501-5478042	CONCRETE ENCASEMENT STEEL H PILE, HP 10X42 (P10L TYPE 3)	LF		20 @ 19.2'		384.0	
18	2505-4008120	REMOVAL OF STEEL BEAM GUARDRAIL	LF				316.0	
19	2505-4008420	STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION, BA-221	EACH				4	
20	2505-4021010	STEEL BEAM GUARDRAIL END ANCHOR, BOLTED	EACH				4	
21	2505-4021722	STEEL BEAM GUARDRAIL TANGENT END TERMINAL, BA-225	EACH				4	
22	2507-3250005	ENGINEERING FABRIC	SY				500.0	
23	2507-6800061	REVTMENT, CLASS E	TON				515.0	
24	2510-6745850	REMOVAL OF PAVEMENT	SY				705.3	
25	2527-9263109	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	STA				12.68	
26	2528-2518000	SAFETY CLOSURE	EACH				4	
27	2528-8445110	TRAFFIC CONTROL	LS				1.00	
28	2533-4980005	MOBILIZATION	LS				1.00	

ESTIMATE REFERENCE INFORMATION

- 1 INCLUDES MATERIAL FOR BRIDGE APPROACHES, ABUTMENT BERMS, AND GUARDRAIL BLISTERS. TYPE "A" COMPACTION WILL BE REQUIRED. FILL QUANTITY INCLUDES AN ADDITIONAL 35% FOR SHRINKAGE.
- 2 INCLUDES THE COST TO CLEAR THE CHANNEL TO THE SHAPE, DEPTH AND EXTENT SHOWN ON THE SITUATION PLAN. SUITABLE CHANNEL EXCAVATION MATERIAL MAY BE USED FOR CONSTRUCTION OF ABUTMENT BERM AND SLOPES. UNSUITABLE OR EXCESS MATERIAL MAY BE WASTED ON SITE AS DIRECTED BY THE ENGINEER. IT IS ANTICIPATED THAT NO ADDITIONAL FILL WILL BE REQUIRED ON THIS PROJECT. PAY QUANTITY SHALL BE PLAN QUANTITY EXCEPT FOR OBVIOUS ERRORS OR OMISSIONS.
- 3 QUANTITY PERTAINS TO WORK WITHIN THE PROJECT LIMITS. PLAN QUANTITY ESTIMATED ON PLACEMENT OF 4 INCHES OVER DISTURBED AREAS NOT COVERED BY GRANULAR MATERIAL. PAY QUANTITY SHALL BE PLAN QUANTITY EXCEPT FOR OBVIOUS ERRORS OR OMISSIONS.
- 4 MODIFIED SUBBASE TO BE PLACED AT A 6 INCH DEPTH. SEE TYPICAL CROSS SECTION ON SHEET 10.
- 5 SEE TYPICAL SECTION ON SHEET 10.
- 6 INCLUDES ALL WORK NECESSARY TO CONSTRUCT AND SHAPE SHOULDER AREAS.
- 7 SEE TABULATION ON SHEET 9. CERTIFIED PLANT INSPECTION IS REQUIRED.
- 8 SEE TYPICAL SECTION ON SHEET 10. CERTIFIED PLANT INSPECTION IS REQUIRED. ALL PAVEMENT JOINTS SHALL BE CLEANED AND SEALED.
- 9 THE EXISTING BRIDGE AT STATION 358+08 IS A 100' x 24' CONTINUOUS CONCRETE SLAB BRIDGE BUILT IN 1959. THE STRUCTURE HAS A CONCRETE DECK AND ABUTMENTS WITH TIMBER PILING AND CONCRETE PIER PILING . ALL SALVAGEABLE AND UNSALVAGEABLE MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM SITE BY THE CONTRACTOR. THE EXISTING STRUCTURE SHALL BE REMOVED TO AN ELEVATION AT LEAST 1' BELOW FINISHED GROUND LINE AND TO THE EXTENT THAT IT WILL NOT INTERFERE WITH THE NEW CONSTRUCTION. BROKEN CONCRETE FROM THE DECK WITH SIMILAR GRADATION TO CLASS 'E' REVETMENT MAY BE PLACED ON THE BANKS AS DIRECTED BY THE ENGINEER. ALL REINFORCING SHALL BE CUT OFF FLUSH WITH THE CONCRETE. ALTERNATELY, THE CONTRACTOR MAY DISPOSE OF THE BROKEN CONCRETE OFF SITE AT A LOCATION PROVIDED BY THE CONTRACTOR.
- 10 UNSUITABLE OR EXCESS MATERIAL MAY BE WASTED ON SITE AS DIRECTED BY THE ENGINEER. QUANTITY BASED ON ASSUMPTION THAT CHANNEL EXCAVATION AND BERM CONSTRUCTION HAVE BEEN COMPLETED. QUANTITY INCLUDES MATERIAL EXCAVATED DURING REMOVAL AND DISPOSAL OF EXISTING ENTRANCE PIPES. SEE ITEMS 14 AND 15 THIS SHEET AND SITUATION PLAN FOR LOCATIONS. PAY QUANTITY SHALL BE PLAN QUANTITY EXCEPT FOR OBVIOUS ERRORS OR OMISSIONS.
- 11 ALL STRUCTURAL CONCRETE FOR THE BRIDGE DECK SHALL BE CLASS "C"; SUBSTITUTION OF CLASS "D" CONCRETE IS NOT ALLOWED. INCLUDES COST OF FURNISHING AND PLACING SUBDRAIN (INCLUDING EXCAVATION) FLOODABLE BACKFILL, POROUS BACKFILL, SUBDRAIN OUTLET, AND GEOTEXTILE FABRIC AT ABUTMENTS AND SHALL INCLUDE COSTS OF ALL MATERIAL AND LABOR TO CONSTRUCT THE WING ARMORING AS DETAILED ON SHEET J30-46-06. WATER REQUIRED FOR FLOODING WILL NOT BE MEASURED SEPARATELY FOR PAYMENT. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR HEATING AND PROTECTION OF CONCRETE, IF NECESSARY. THE DECK SHALL BE TINED AND SPRAYED WITH WHITE PIGMENTED CURING COMPOUND IMMEDIATELY AFTER FINISHING OPERATIONS ARE COMPLETED AND BURLAP PLACED WITHIN 30 MINUTES AFTER THE DECK HAS BEEN TINED AND SPRAYED. WATER SHALL BE APPLIED TO THE BURLAP COVERING FOR A PERIOD OF 4 CALENDAR DAYS. CERTIFIED PLANT INSPECTION IS REQUIRED. BRIDGE DECK SMOOTHNESS DOES NOT APPLY TO THIS PROJECT. PAY QUANTITY SHALL BE PLAN QUANTITY EXCEPT FOR OBVIOUS ERRORS OR OMISSIONS.
- 12 ALL REINFORCING STEEL SHALL BE GRADE 60.
- 13 ALL STRUCTURAL CONCRETE FOR THE RAIL SHALL BE CLASS "C"; SUBSTITUTION OF CLASS "D" CONCRETE IS NOT ALLOWED. CERTIFIED PLANT INSPECTION IS REQUIRED. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR HEATING AND PROTECTION OF CONCRETE, IF NECESSARY.
- 14-15 18" CMP ENTRANCE CULVERTS, BANDS, AND APRONS WILL BE FURNISHED BY THE CONTRACTING AUTHORITY. BID ITEMS INCLUDE ALL COSTS ASSOCIATED WITH THE REMOVAL AND DISPOSAL OF TWO EXISTING 24" RCP ENTRANCE CULVERTS AND THE INSTALLATION AND BACKFILLING OF 2 CMP ENTRANCE CULVERTS AND 6:1 SAFETY APRONS. SEE SITUATION PLAN FOR LOCATIONS.
- 16 ALL PILING SHALL BE DRIVEN TO FULL PENETRATION IF PRACTICLE. SEE LONGITUDINAL SECTION ALONG c ROADWAY SHEET 3 AND PILE NOTES THIS SHEET FOR MORE INFORMATION.
- 17 THE UNIT PRICE BID FOR ENCASEMENT SHALL BE FULL PAYMENT FOR FURNISHING AND PLACING MATERIAL AND, WHERE NECESSARY, EXCAVATION. SEE STANDARD P10L FOR DETAILS. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR HEATING AND PROTECTION OF CONCRETE, IF NECESSARY. CERTIFIED PLANT INSPECTION IS REQUIRED.
- 18 SEE TABULATIONS, SHEET 10. ALL SALVAGEABLE AND UNSALVAGEABLE MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR.
- 19-21 SEE TABULATION ON SHEET 9.
- 22 ENGINEERING FABRIC TO BE PLACED UNDER ALL CLASS E REVETMENT.
- 23 REVETMENT IS TO BE PLACED AT A THICKNESS OF 1'-6". SEE SITUATION PLAN, SHEET 3 FOR LIMITS. THE UNIT PRICE BID FOR "REVTMENT, CLASS E" SHALL INCLUDE COST OF LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO PLACE CLASS E REVETMENT ON CHANNEL BANKS IN ACCORDANCE WITH SECTION 2507 OF THE CURRENT STANDARD SPECIFICATIONS.
- 24 SEE TABULATIONS, SHEET 9. EXISTING PAVEMENT CONSISTS OF APPROXIMATELY 9 INCHES OF HMA. SAW CUTS ARE TO BE MADE AT THE STATION INDICATED OR AT THE NEAREST TRANSVERSE PAVEMENT JOINT, AS DIRECTED BY THE ENGINEER.
- 25 SEE TABULATIONS, SHEET 9. THE LOCATION OF "NO PASSING" ZONE LINES SHALL BE LOCATED IN THE FIELD.
- 26 SEE TABULATIONS, SHEET 9 AND STANDARD ROAD PLAN TC-252.
- 27 THE ROAD WILL BE CLOSED TO TRAFFIC. SEE SHEET 1 FOR TRAFFIC CONTROL PLAN.

GENERAL NOTES

ACCESS SHALL BE MAINTAINED TO INDIVIDUAL PROPERTIES DURING CONSTRUCTION. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

THE ENGINEER SHALL BE RESPONSIBLE FOR THE CONSTRUCTION SURVEY. 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.

EROSION CONTROL, RURAL GRASS SEEDING, FERTILIZING, AND MULCHING SHALL BE DONE BY HARDIN COUNTY IRVM DEPARTMENT.

THE CONTRACTOR IS ENCOURAGED TO TAKE FULL ADVANTAGE OF SPECIFICATION 1105.14 - VALUE ENGINEERING INCENTIVE PROPOSAL.

COUNTY BRIDGE STANDARDS ARE AVAILABLE FROM THE IOWA DEPARTMENT OF TRANSPORTATION AT www.iowadot.gov/bridge/countybrgstd.htm.

ANY TEMPORARY STREAM CROSSINGS SHALL INCLUDE ENOUGH CULVERTS TO ACCOMMODATE LOW FLOWS AND MUST BE REMOVED AFTER COMPLETION OF WORK ON THIS PROJECT. TEMPORARY STREAM CROSSINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD ROAD PLAN EW-401. THE COST OF INSTALLATION, MAINTENANCE, AND REMOVAL OF TEMPORARY CROSSINGS, INCLUDING CULVERTS, SHALL BE INCLUDED IN THE PRICE BID FOR "MOBILIZATION."

PILE NOTES

THIS PROJECT USES THE LOAD AND RESISTANCE FACTOR DESIGN (LRFD) METHODOLOGY FOR DETERMINING CONTRACT PILE LENGTH AND NOMINAL AXIAL BEARING RESISTANCE. NOMINAL AXIAL BEARING RESISTANCES WILL BE LARGER THAN BEARING VALUES IN THE PAST, BUT CONSTRUCTION CONTROL BLOW COUNTS WILL BE APPROXIMATELY THE SAME. A WEAP ANALYSIS AND BEARING GRAPH WILL BE PROVIDED BY THE COUNTY THAT GIVES THE RELATIONSHIP BETWEEN REQUIRED NOMINAL AXIAL BEARING RESISTANCE AND BLOW COUNT. FOR THE CONTRACTOR'S BIDDING PURPOSES, PARTICULARLY FOR THE SIZING OF THE PILE DRIVING HAMMER, THE APPROXIMATE PREVIOUS DESIGN METHODOLOGY BEARING VALUES AT END OF DRIVE (EOD) ARE GIVEN BELOW. THESE VALUES SHALL NOT BE USED FOR CONSTRUCTION CONTROL AND ARE GIVEN ONLY FOR COMPARATIVE PURPOSES.

THE PREVIOUS DESIGN BEARING FOR THE ABUTMENTS WOULD HAVE BEEN ABOUT 34 TONS. THE PREVIOUS BEARING FOR THE PIER PILES WOULD HAVE BEEN ABOUT 32 TONS.

THE CONTRACT LENGTH OF 45 FEET FOR THE NORTH AND SOUTH ABUTMENT PILES IS BASED ON A COHESIVE SOIL CLASSIFICATION, A TOTAL FACTORED AXIAL LOAD OF PER PILE (PU) OF 97 KIPS, AND A GEOTECHNICAL RESISTANCE FACTOR (PHI) OF 0.65 FOR SOIL AND 0.7 FOR ROCK END BEARING. THE NOMINAL AXIAL BEARING RESISTANCE FOR CONSTRUCTION CONTROL WAS DETERMINED FROM A COHESIVE SOIL CLASSIFICATION AND A GEOTECHNICAL RESISTANCE FACTOR (PHI) OF 0.65 FOR SOIL AND 0.7 FOR ROCK END BEARING. PILES ARE ASSUMED TO BE DRIVEN FROM A START ELEVATION AT THE BOTTOM OF THE FOOTING. THE REQUIRED NOMINAL AXIAL BEARING RESISTANCE FOR THE NORTH ABUTMENT PILES IS 72 TONS AT END OF DRIVE OR RETAP. THE PILE CONTRACT LENGTH SHALL BE DRIVEN AS PER PLAN UNLESS PILES REACH REFUSAL. CONSTRUCTION CONTROL REQUIRES A WEAP ANALYSIS WITH BEARING GRAPH.

THE CONTRACT LENGTH OF 50 FEET FOR THE PIER PILES IS BASED ON A COHESIVE SOIL CLASSIFICATION, A TOTAL FACTORED AXIAL LOAD PER PILE (PU) OF 94 KIPS, AND A GEOTECHNICAL RESISTANCE FACTOR (PHI) OF 0.65 FOR SOIL AND 0.7 FOR ROCK END BEARING. THE NOMINAL AXIAL BEARING RESISTANCE FOR CONSTRUCTION CONTROL WAS DETERMINED FROM A COHESIVE SOIL CLASSIFICATION AND A GEOTECHNICAL RESISTANCE FACTOR (PHI) OF 0.65 FOR SOIL AND 0.7 FOR ROCK END BEARING. PILES ARE ASSUMED TO BE DRIVEN FROM A START ELEVATION AT THE BOTTOM OF FOOTING. THE REQUIRED NOMINAL AXIAL BEARING RESISTANCE FOR THE PIER PILES IS 70 TONS AT END OF DRIVE OR RETAP. THE PILE CONTRACT LENGTH SHALL BE DRIVEN AS PER PLAN UNLESS PILES REACH REFUSAL. CONSTRUCTION CONTROL REQUIRES A WEAP ANALYSIS WITH BEARING GRAPH.

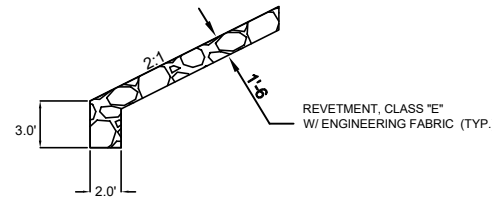
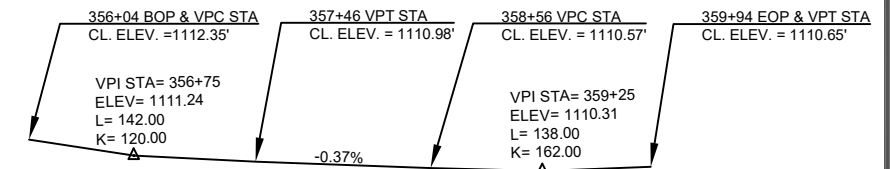
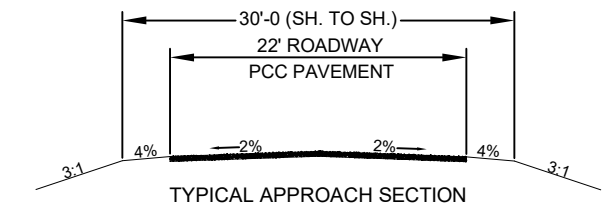
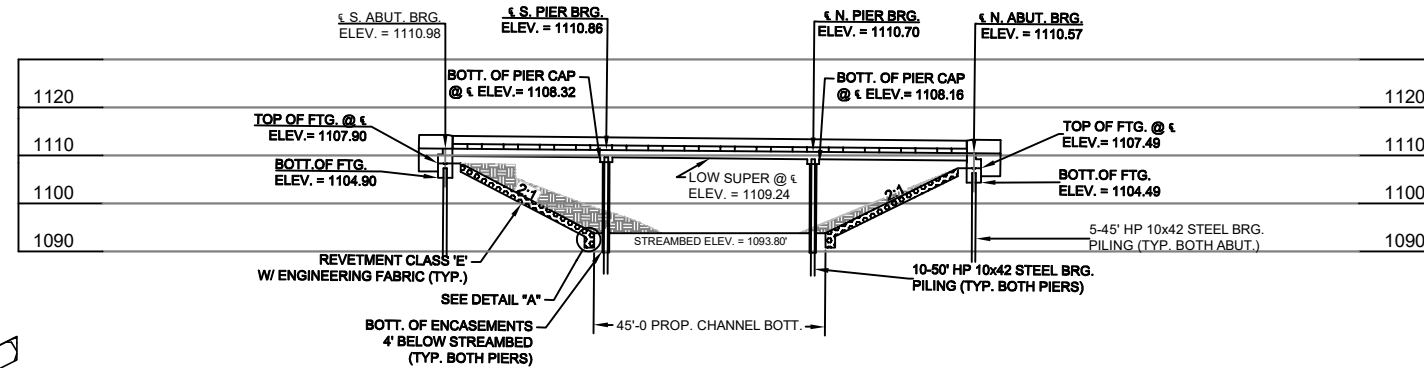
**110'-0 x 30'-6 CONTINUOUS CONCRETE
SLAB BRIDGE**

INTEGRAL ABUTMENTS MONOLITHIC P10L PIERS
STA 358+01 0° SKEW

HARDIN COUNTY IOWA

ESTIMATED QUANTITIES, ESTIMATE REFERENCE INFORMATION,
AND GENERAL NOTES

BM #1, T-POST @ STA. 357+90.25, 67.6' RT
 N= 8547746.98', E= 14891195.70', ELEV.= 1107.27'

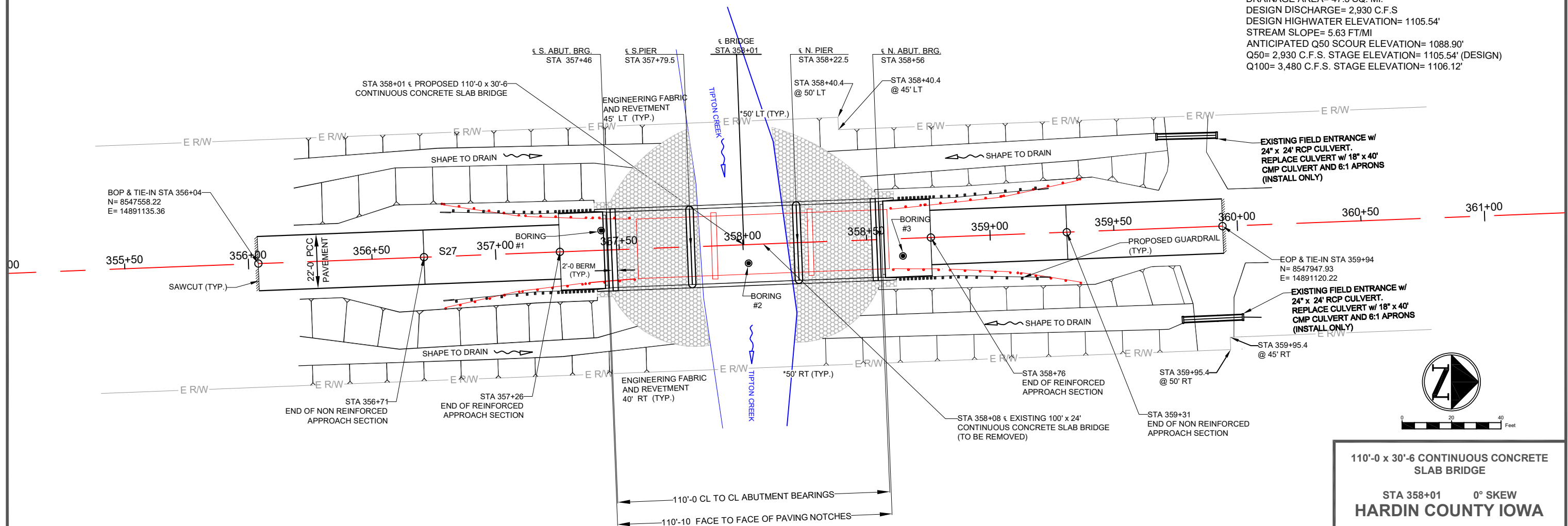


LOCATION

HARDIN COUNTY
 T-87N, R-22W
 SECTION 3
 SHERMAN TOWNSHIP
 OVER TIPTON CREEK

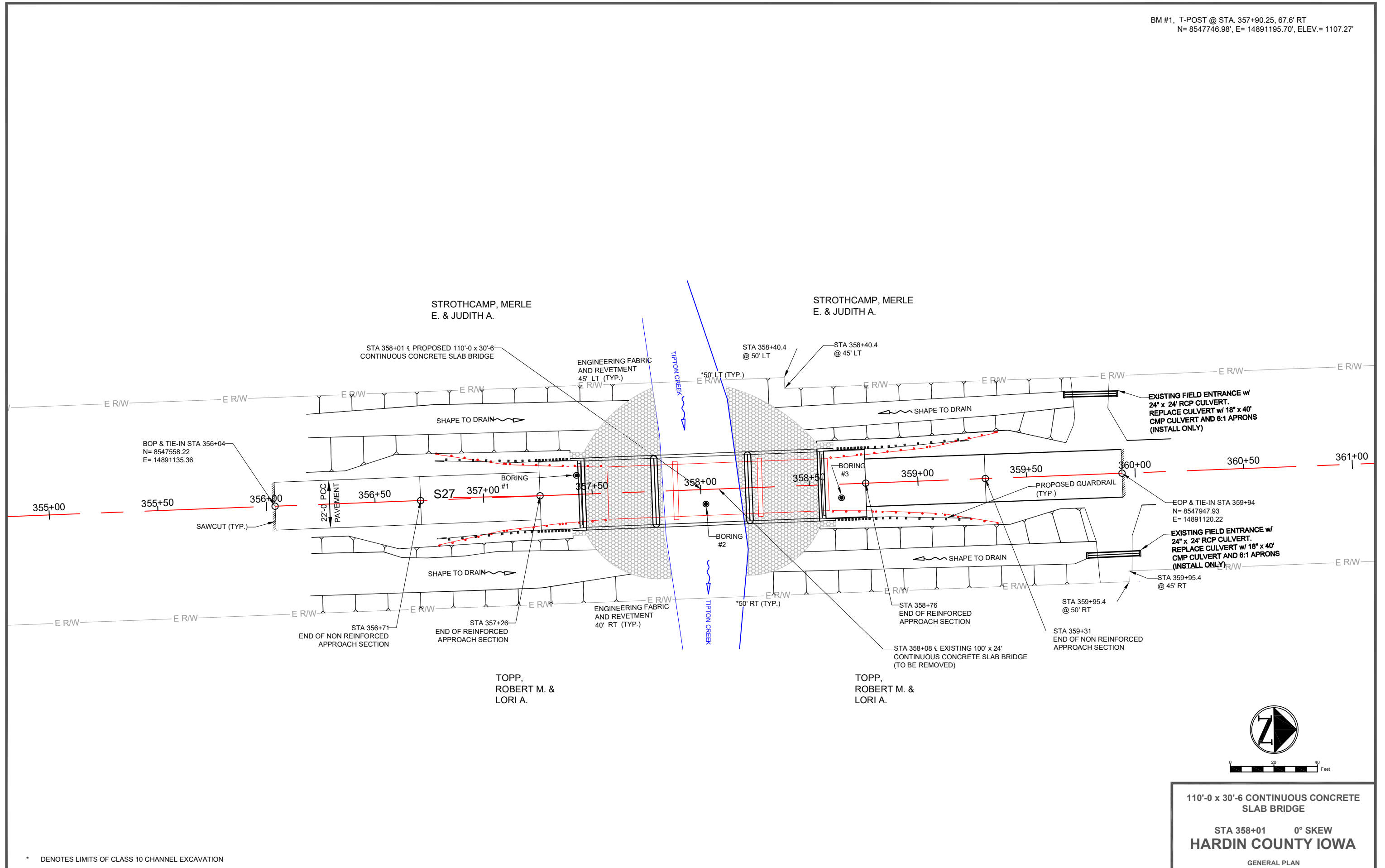
HYDRAULIC DATA

DRAINAGE AREA= 47.3 SQ. MI.
 DESIGN DISCHARGE= 2,930 C.F.S.
 DESIGN HIGHWATER ELEVATION= 1105.54'
 STREAM SLOPE= 5.63 FT/MI
 ANTICIPATED Q50 SCOUR ELEVATION= 1088.90'
 Q50= 2,930 C.F.S. STAGE ELEVATION= 1105.54' (DESIGN)
 Q100= 3,480 C.F.S. STAGE ELEVATION= 1106.12'



110'-0 x 30'-6 CONTINUOUS CONCRETE SLAB BRIDGE
 STA 358+01 0° SKEW
HARDIN COUNTY IOWA
 SITUATION PLAN

* DENOTES LIMITS OF CLASS 10 CHANNEL EXCAVATION

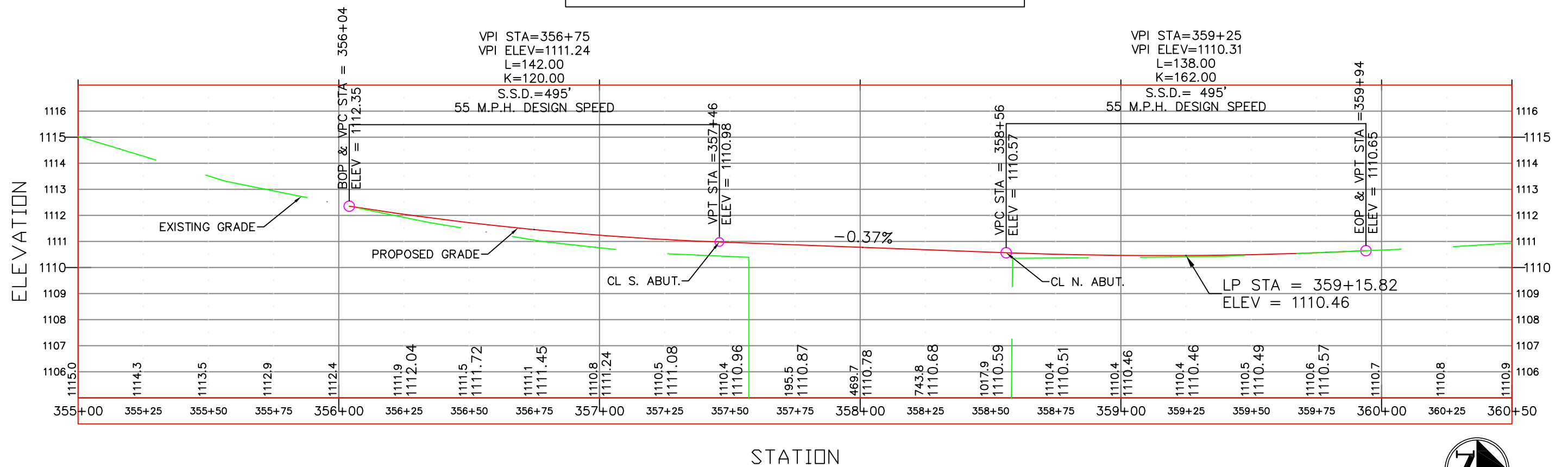


* DENOTES LIMITS OF CLASS 10 CHANNEL EXCAVATION



110'-0" x 30'-6" CONTINUOUS CONCRETE
 SLAB BRIDGE
 STA 358+01 0° SKEW
HARDIN COUNTY IOWA
 GENERAL PLAN

PROFILE VIEW OF CO. HIGHWAY S27



0 20 40 Feet

110'-0 x 30'-6 CONTINUOUS CONCRETE
SLAB BRIDGE
STA 358+01 0° SKEW
HARDIN COUNTY IOWA
PROFILE

BORING LOG NO. 1

Page 1 of 2

PROJECT: Hardin County Bridge 12015 Replacement
CLIENT: Hardin County IA Eldora, IA
SITE: Sherman Township; County Rd S27; ~1,000 feet south of 220th Street, Hardin County, IA

DEPTH	ELEVATION (FL)	DEPTH (FL)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS
0.8	1109.5					
ASPHALT						
2.0	1108.5					
FILL - SAND AND GRAVEL, brown, moist						
		5			18	2-4-3 N=7
		10			18	3-2-2 N=4 2000 (HP)
		15			18	2-3-4 N=7 3000 (HP)
		20			18	3-4-5 N=9 5000 (HP)
		25			18	5-5-8 N=13 9000 (HP)
		30			18	4-5-9 N=14 9000 (HP)

Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic

Advancement Method:
Solid stem auger to 9 feet then mud rotary to boring termination.

Abandonment Method:
Boring backfilled with soil cuttings, bentonite chips, and patched with asphalt upon completion.

Notes:

WATER LEVEL OBSERVATIONS
None observed prior to mud rotary



Boring Started: 04-07-2020 Boring Completed: 04-07-2020
 Drill Rig: # 589 Driller: RF
 Project No.: 13205065.01 Exhibit: A-1

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL - 13205065.01 TERRACON.DATATEMPLATE.GDT 5/11/20

BORING LOG NO. 1

Page 2 of 2

PROJECT: Hardin County Bridge 12015 Replacement
CLIENT: Hardin County IA Eldora, IA
SITE: Sherman Township; County Rd S27; ~1,000 feet south of 220th Street, Hardin County, IA

DEPTH	ELEVATION (FL)	DEPTH (FL)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS
		35			18	4-5-9 N=14 9000+ (HP)
		40			17	4-5-7 N=12 8500 (HP)
		43.6			0	50/1"

Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic

Advancement Method:
Solid stem auger to 9 feet then mud rotary to boring termination.

Abandonment Method:
Boring backfilled with soil cuttings, bentonite chips, and patched with asphalt upon completion.

Notes:

WATER LEVEL OBSERVATIONS
None observed prior to mud rotary



Boring Started: 04-07-2020 Boring Completed: 04-07-2020
 Drill Rig: # 589 Driller: RF
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THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL - 13205065.01 TERRACON.DATATEMPLATE.GDT 5/11/20

110'-0 x 30'-6 CONTINUOUS CONCRETE
 SLAB BRIDGE
 STA 358+01 0° SKEW
HARDIN COUNTY IOWA
 SOUNDING DATA

BORING LOG NO. 2

Page 1 of 2

PROJECT: Hardin County Bridge 12015 Replacement **CLIENT:** Hardin County IA Eldora, IA
SITE: Sherman Township; County Rd S27; ~1,000 feet south of 220th Street, Hardin County, IA

DEPTH	DESCRIPTION	DEPTH (FT.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS
1.2	CONCRETE (bridge deck) bottom of bridge deck to water surface	1109.5				
14.0	WATER	1096.5				
16.0	IDOT - SILTY SAND SAND (SP), trace gravel, fine to coarse grained, brown, wet	1094.5				
19.0	IDOT - STIFF SILTY CLAY SILTY CLAY (CL-ML), trace sand, gray, wet	1091.5		7	8-4-4 N=8 6000 (HP)	
22.0	IDOT - FIRM SANDY GLACIAL CLAY SANDY LEAN CLAY (CL), trace gravel, brown gray, wet	1088.5		17	4-5-5 N=10 9000 (HP)	
				18	3-4-5 N=9 8500 (HP)	

Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic

Advancement Method:
Solid stem auger to 2 feet then mud rotary to boring termination.
Abandonment Method:
Bridge deck patched with concrete upon completion.

Notes:

WATER LEVEL OBSERVATIONS



Boring Started: 04-07-2020 Boring Completed: 04-07-2020
 Drill Rig: # 589 Driller: RF
 Project No.: 13205065.01 Exhibit: A-2

BORING LOG NO. 2

Page 2 of 2

PROJECT: Hardin County Bridge 12015 Replacement **CLIENT:** Hardin County IA Eldora, IA
SITE: Sherman Township; County Rd S27; ~1,000 feet south of 220th Street, Hardin County, IA

DEPTH	DESCRIPTION	DEPTH (FT.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS
39.0	IDOT - FIRM SANDY GLACIAL CLAY (continued) SANDY LEAN CLAY (CL), trace gravel, brown gray, wet	1071.5			18	3-5-8 N=13 7500 (HP)
43.0	SANDSTONE, poorly cemented, light brown white	1067.5			15	5-13-23 N=36 3000 (HP)
43.0	LIMESTONE, with occasional highly weathered layers, light brown	1067.5			0	50/0.5"
48.5	Boring Terminated at 48.5 Feet	1062			0	25/0"

Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic

Advancement Method:
Solid stem auger to 2 feet then mud rotary to boring termination.
Abandonment Method:
Bridge deck patched with concrete upon completion.

Notes:

WATER LEVEL OBSERVATIONS



Boring Started: 04-07-2020 Boring Completed: 04-07-2020
 Drill Rig: # 589 Driller: RF
 Project No.: 13205065.01 Exhibit: A-2

110'-0 x 30'-6 CONTINUOUS CONCRETE SLAB BRIDGE
 STA 358+01 0° SKEW
HARDIN COUNTY IOWA
 SOUNDING DATA

BORING LOG NO. 3

Page 1 of 2

PROJECT: Hardin County Bridge 12015 Replacement

CLIENT: Hardin County IA
Eldora, IA

SITE: Sherman Township; County Rd S27; ~1,000 feet south of 220th Street, Hardin County, IA

DEPTH	ELEVATION (FL.)	DESCRIPTION	DEPTH (FL.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS
0.7	1110	ASPHALT					
2.5	1108	FILL - SAND AND GRAVEL					
		IDOT - STIFF SILTY CLAY FILL FILL - SANDY LEAN CLAY, trace organics, with sand layers, dark brown, moist to wet	5	▽	9	2-2-3 N=5	
			10	▽	16	2-2-2 N=4	
11.5	1099	IDOT - STIFF SILTY CLAY SILTY CLAY (CL-ML), trace organics and sand, gray, wet cobbles at about 12.5 feet	15		18	2-4-4 N=8 4500 (HP)	
			20		15	2-3-3 N=6 5000 (HP)	
23.0	1087.5	IDOT - FIRM SANDY GLACIAL CLAY SANDY LEAN CLAY (CL/SC), trace gravel, with occasional sand layers, brown gray, wet	25		16	3-4-5 N=9 8500 (HP)	
			30		18	3-4-4 N=8 6000 (HP)	

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
Solid stem auger to 9 feet then mud rotary to boring termination.

Abandonment Method:
Boring backfilled with soil cuttings, bentonite chips, and patched with asphalt upon completion.

Notes:

WATER LEVEL OBSERVATIONS
▽ 7.5' observed while drilling
▽ 5' observed after drilling



Boring Started: 04-08-2020
Boring Completed: 04-08-2020
Drill Rig: # 589
Driller: RF
Project No.: 13205065.01
Exhibit: A-3

BORING LOG NO. 3

Page 2 of 2

PROJECT: Hardin County Bridge 12015 Replacement

CLIENT: Hardin County IA
Eldora, IA

SITE: Sherman Township; County Rd S27; ~1,000 feet south of 220th Street, Hardin County, IA

DEPTH	ELEVATION (FL.)	DESCRIPTION	DEPTH (FL.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS
		IDOT - FIRM SANDY GLACIAL CLAY (continued) SANDY LEAN CLAY (CL/SC), trace gravel, with occasional sand layers, brown gray, wet	35		18	2-4-7 N=11 5000 (HP)	
			40		15	3-5-11 N=16 8000 (HP)	
42.0	1068.5	LIMESTONE, highly weathered and broken, light brown					
43.5	1067	Boring Terminated at 43.5 Feet			0	35/0"	

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
Solid stem auger to 9 feet then mud rotary to boring termination.

Abandonment Method:
Boring backfilled with soil cuttings, bentonite chips, and patched with asphalt upon completion.

Notes:

WATER LEVEL OBSERVATIONS
▽ 7.5' observed while drilling
▽ 5' observed after drilling



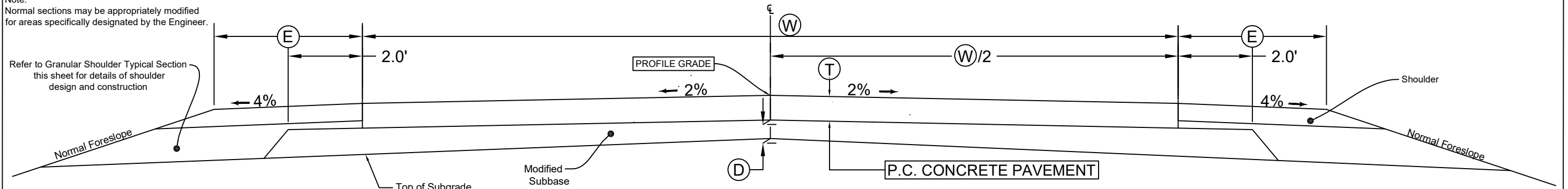
Boring Started: 04-08-2020
Boring Completed: 04-08-2020
Drill Rig: # 589
Driller: RF
Project No.: 13205065.01
Exhibit: A-3

110'-0 x 30'-6 CONTINUOUS CONCRETE
SLAB BRIDGE

STA 358+01 0° SKEW
HARDIN COUNTY IOWA

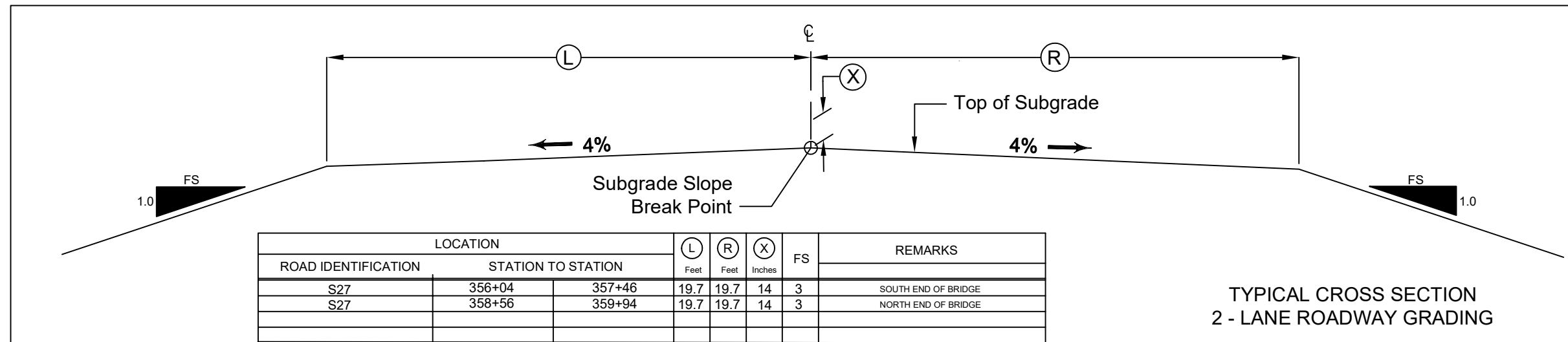
SOUNDING DATA

Note:
Normal sections may be appropriately modified for areas specifically designated by the Engineer.



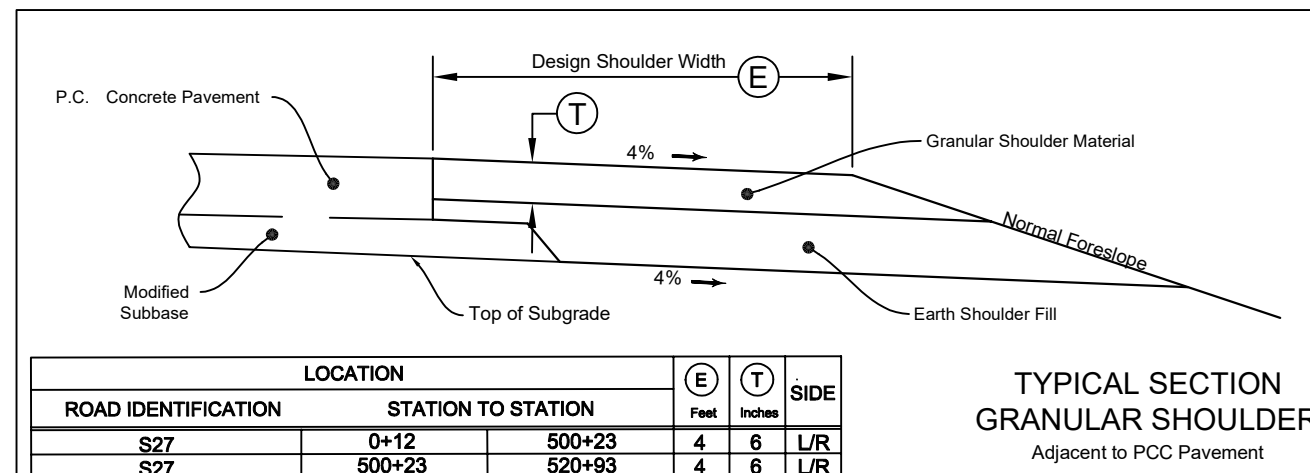
LOCATION		W	T	D	E	SHOULDER TYPE
ROAD IDENTIFICATION	STATION TO STATION	Feet	Inches	Inches	Feet	
S27	356+04 357+46	22	8	6	4	GRANULAR
S27	358+56 359+94	22	8	6	4	GRANULAR

TYPICAL CROSS SECTION
2 - LANE ROADWAY GRADING



LOCATION		L	R	X	FS	REMARKS
ROAD IDENTIFICATION	STATION TO STATION	Feet	Feet	Inches		
S27	356+04 357+46	19.7	19.7	14	3	SOUTH END OF BRIDGE
S27	358+56 359+94	19.7	19.7	14	3	NORTH END OF BRIDGE

TYPICAL CROSS SECTION
2 - LANE ROADWAY GRADING

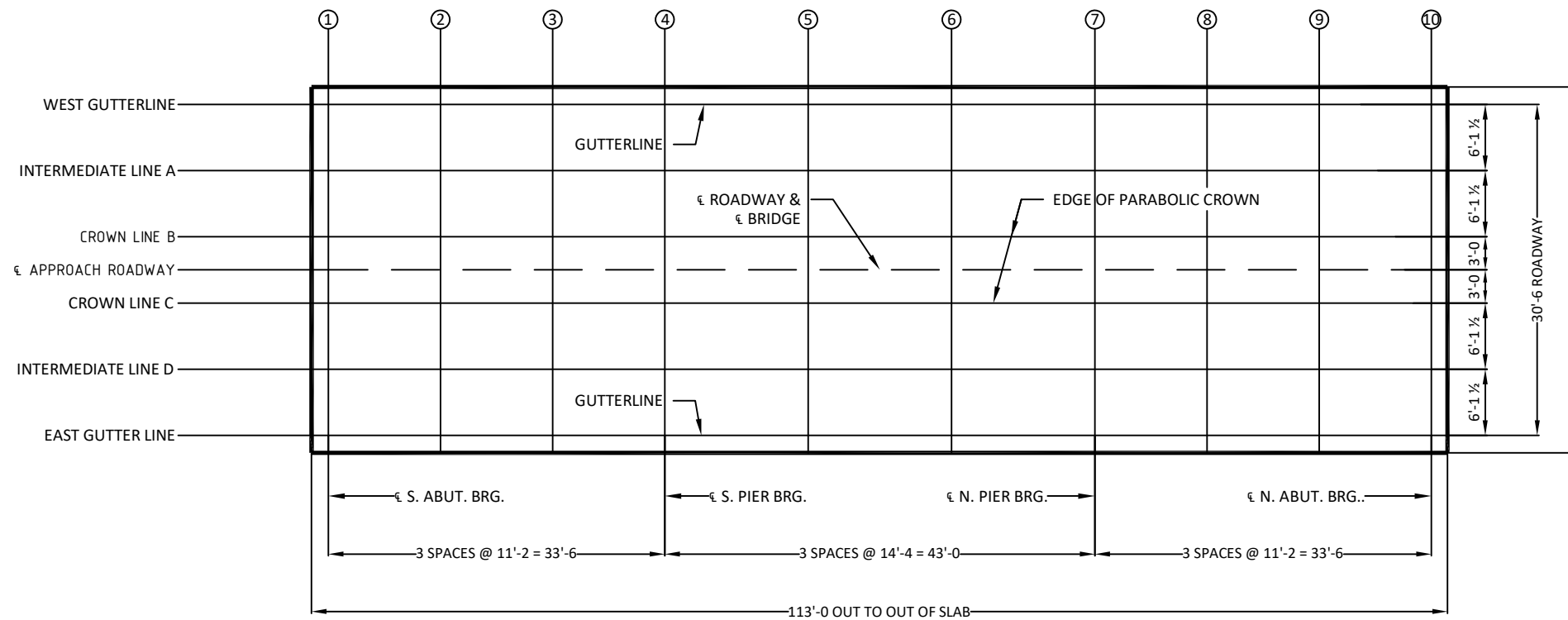


LOCATION		E	T	SIDE
ROAD IDENTIFICATION	STATION TO STATION	Feet	Inches	
S27	0+12 500+23	4	6	L/R
S27	500+23 520+93	4	6	L/R

TYPICAL SECTION
GRANULAR SHOULDER
Adjacent to PCC Pavement

REMOVAL OF STEEL BEAM GUARDRAIL					
① Includes length of End Terminals and End Anchors.					
This Data Entry Sheet fills Tab 110-7A effective 04-17-12					
Location					
No.	Direction of Traffic	Station to Station		Side	Removal of Guardrail
					① LF
1	SB	356+78.30	357+57.30	LT	79.0
2	NB	356+78.30	357+57.30	RT	79.0
3	SB	358+58.70	359+37.70	LT	79.0
4	NB	358+58.70	359+37.70	RT	79.0
TOTAL:					316.0

110'-0" x 30'-6" CONTINUOUS CONCRETE
SLAB BRIDGE
STA 358+01 0° SKEW
HARDIN COUNTY IOWA
TABULATIONS AND TYPICALS



TOP OF SLAB ELEVATIONS												
LOCATION	C.L. S. ABUT. BRG.				C.L. S. PIER BRG.				C.L. N. PIER BRG.			C.L. N. ABUT. BRG.
	LINE 1	LINE 2	LINE 3	LINE 4	LINE 5	LINE 6	LINE 7	LINE 8	LINE 9	LINE 10		
WEST GUTTER LINE	1110.71	1110.67	1110.63	1110.59	1110.53	1110.48	1110.43	1110.39	1110.34	1110.30		
INTERMEDIATE LINE A	1110.83	1110.79	1110.75	1110.71	1110.65	1110.60	1110.55	1110.51	1110.46	1110.42		
CROWN LINE B	1110.95	1110.91	1110.87	1110.83	1110.77	1110.72	1110.67	1110.63	1110.58	1110.54		
C.L. APPROACH ROADWAY	1110.98	1110.94	1110.90	1110.86	1110.80	1110.75	1110.70	1110.66	1110.61	1110.57		
CROWN LINE C	1110.95	1110.91	1110.87	1110.83	1110.77	1110.72	1110.67	1110.63	1110.58	1110.54		
INTERMEDIATE LINE D	1110.83	1110.79	1110.75	1110.71	1110.65	1110.60	1110.55	1110.51	1110.46	1110.42		
EAST GUTTER LINE	1110.71	1110.67	1110.63	1110.59	1110.53	1110.48	1110.43	1110.39	1110.34	1110.30		

110'-0 x 30'-6 CONTINUOUS CONCRETE
 SLAB BRIDGE
 INTEGRAL ABUTMENTS MONOLITHIC P10L PIERS
 STA 358+01 0° SKEW
HARDIN COUNTY IOWA
 SUPERSTRUCTURE DETAILS

BROS-SWAP-CO42(102)--SE-42

LETTING DATE OCTOBER 20, 2020

HARDIN COUNTY
BRIDGE REPLACEMENT - CCS

SECTION 404 PERMIT AND CONDITIONS 281-1
10-18-16

CONSTRUCT THIS PROJECT ACCORDING TO THE REQUIREMENTS OF U.S. ARMY CORPS OF ENGINEERS NATIONWIDE PERMIT NO. 14, PERMIT NO. CEMVR-OD-P-2020-0550. A COPY OF THIS PERMIT IS AVAILABLE FROM THE IOWA DOT WEBSITE (<http://www.envpermits.iowadot.gov/>). THE U.S. ARMY CORPS OF ENGINEERS RESERVES THE RIGHT TO VISIT THE SITE WITHOUT PRIOR NOTICE.

THIS PROJECT IS COVERED BY THE IOWA DNR FLOODPLAIN CONSTRUCTION PERMIT No. 89081FP-01.

UTILITY CONTACTS		
UTILITY	CONTACT	PHONE #
FIBER OPTIC	HUBBARD COOP TELEPHONE - KEN KISSINGER	515-864-2216
OVERHEAD ELECTRIC	MIDLAND POWER COOPERATIVE - BRUCE KEENEY	515-386-4111

IOWA DEPARTMENT OF TRANSPORTATION

HIGHWAY DIVISION PLANS OF PROPOSED IMPROVEMENT ON THE FARM TO MARKET SYSTEM HARDIN COUNTY BRIDGE REPLACEMENT-CCS ON M AVE., OVER THE SOUTH FORK OF THE IOWA RIVER, W $\frac{1}{4}$ SECTION 1-T87N-R21W

REFER TO THE PROPOSAL FORM FOR LIST OF APPLICABLE SPECIFICATIONS.



PROJECT TRAFFIC CONTROL PLAN

THIS ROAD WILL BE CLOSED TO THROUGH TRAFFIC DURING CONSTRUCTION. LOCAL TRAFFIC TO ADJACENT PROPERTIES WILL BE MAINTAINED. ALL BARRICADES, SIGNS, AND SAFETY CLOSURES SHALL BE FURNISHED, PLACED, AND MAINTAINED BY THE CONTRACTOR. TRAFFIC CONTROL DEVICES, PROCEDURES, LAYOUTS, SIGNING, AND PAVEMENT MARKINGS INSTALLED WITHIN THE LIMITS OF THIS PROJECT SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AS ADOPTED BY THE DEPARTMENT PER 761 OF THE IOWA ADMINISTRATIVE CODE (IAC) CHAPTER 130.

DRAWING APPROVAL

ALL SHOP DRAWINGS AND FALSEWORK DRAWINGS THAT REQUIRE APPROVAL SHALL BE SUBMITTED TO AND SIGNED BY A LICENSED ENGINEER. THE APPROVED DRAWINGS SHALL THEN BE SUBMITTED TO HARDIN COUNTY ENGINEERS OFFICE, FOR REVIEW AND APPROVAL.

ADDRESS : 708 16TH ST.
ELDORA, IA 50627
TELEPHONE: 641.858.5058
FAX: 641.858.3162

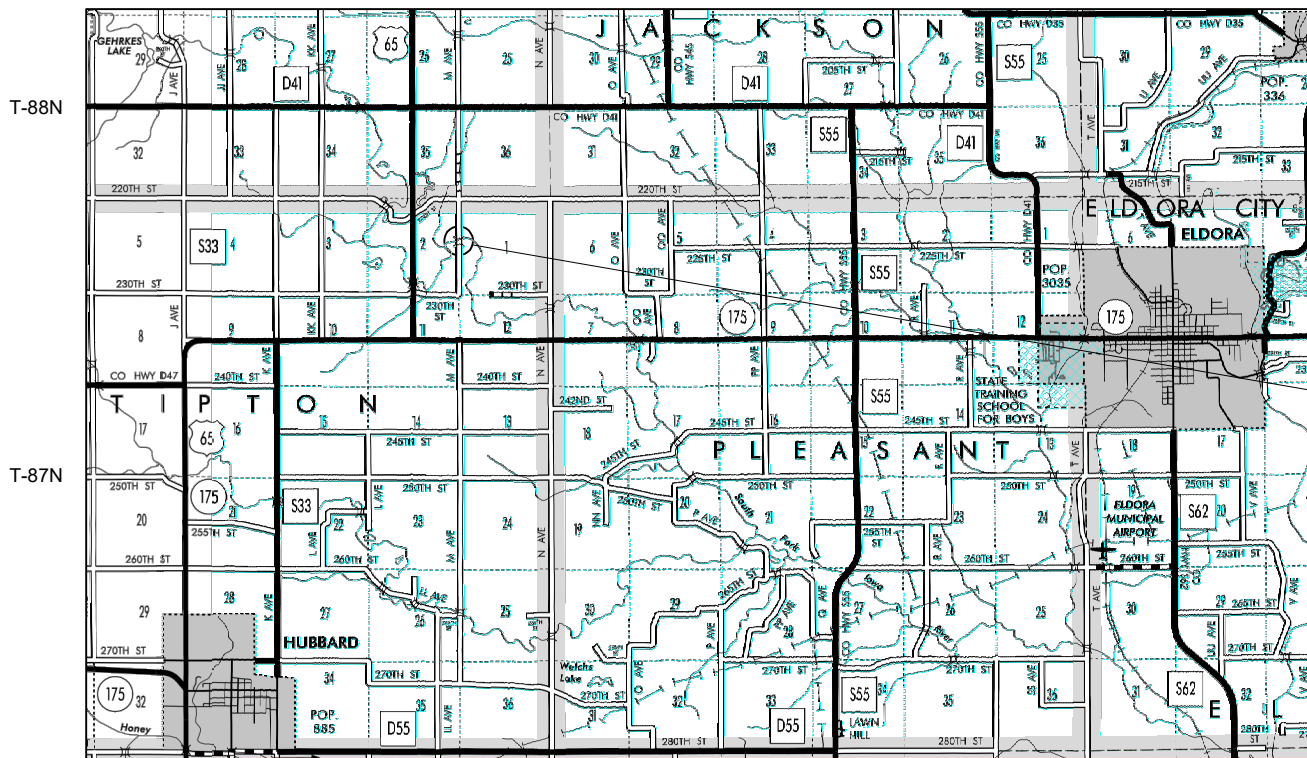
SHOP DRAWINGS SHALL BE INDEPENDENT DRAWINGS WITH ADEQUATE DIMENSIONING FOR FABRICATION OF INDIVIDUAL PIECES OF EACH COMPONENT. PHOTOCOPIES OF PLAN DRAWINGS AND NON-CONTRACTOR APPROVED PLANS WILL BE REJECTED.

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

INDEX OF SHEETS	
NO.	DESCRIPTION
1	TITLE SHEET
2	ESTIMATE OF QUANTITIES AND REFERENCE NOTES
3	SITUATION PLAN AND LONGITUDINAL SECTION
4-5	SOUNDING DATA
6	SUPERSTRUCTURE DETAILS

MILEAGE SUMMARY			
DIV.	LOCATION	LIN.FT.	MILES
	STA 2+75 - 6+25	350	0.066
	BRIDGE AT STA. 4+66		
	TOTAL PROJECT		0.066

SEE SHEET 2 FOR TABULATION OF BRIDGE STANDARDS AND STANDARD ROAD PLANS



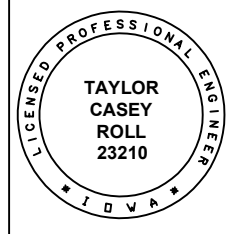
STA 4+66
PROPOSED 130'-0 x 30'-6
CONTINUOUS CONCRETE
SLAB BRIDGE 30° SKEW RA
FHWA# 175611

Lance Granzow	Chairperson
BJ Hoffman	
Renee McClellan	
Approved Board of Supervisors	

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.

Signature: _____ Date: _____
TAYLOR CASEY ROLL
 Printed or Typed Name

My license renewal date is: December 31, 2021
 Pages or sheets covered by this seal: Sheets 1 thru 6



ESTIMATED QUANTITIES

ITEM NO.	ITEM CODE	ITEM	UNIT	2 ABUTS.	2 PIERS	SUPER	TOTAL	AS BUILT
1	2104-2710020	EXCAVATION, CL 10, CHANNEL	CY				180.0	
2	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CY				230.0	
3	2401-6745625	REMOVAL OF EXISTING BRIDGE	LS				1.00	
4	2402-2720000	EXCAVATION, CL 20	CY				80	
5	2403-0100010	STRUCTURAL CONCRETE (BRIDGE)	CY	25.6		311.3	336.9	
6	2404-7775000	REINFORCING STEEL	LB	3,458		73,836	77,294	
7	2414-6424124	CONCRETE OPEN RAIL, TL-4	LF				282.92	
8	2501-0201042	PILE, STEEL, HP 10X42	LF	12 @ 45'	24 @ 55'		1860	
9	2501-5478042	CONCRETE ENCASEMENT STEEL H PILE, HP 10X42 (P10L TYPE 3)	LF		24 @ 17.5'		420.0	
10	2507-3250005	ENGINEERING FABRIC	SY				400.0	
11	2507-6800061	REVTMENT, CLASS E	TON				380.0	
12	2528-2518000	SAFETY CLOSURE	EACH				4	
13	2528-8445110	TRAFFIC CONTROL	LS				1.00	
14	2533-4980005	MOBILIZATION	LS				1.00	
15	2536-6745045	REMOVAL OF ASBESTOS	LS				1.00	

GENERAL NOTES

ACCESS SHALL BE MAINTAINED TO INDIVIDUAL PROPERTIES DURING CONSTRUCTION. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

EROSION CONTROL, RURAL GRASS SEEDING, FERTILIZING, AND MULCHING SHALL BE DONE BY HARDIN COUNTY IRVM DEPARTMENT.

MINOR GRADING AND GRANULAR SURFACING ON ROAD SHALL BE DONE BY HARDIN COUNTY.

THE ENGINEER SHALL BE RESPONSIBLE FOR THE CONSTRUCTION SURVEY. 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.

THE CONTRACTOR IS ENCOURAGED TO TAKE FULL ADVANTAGE OF SPECIFICATION 1105.14 - VALUE ENGINEERING INCENTIVE PROPOSAL.

COUNTY BRIDGE STANDARDS ARE AVAILABLE FROM THE IOWA DEPARTMENT OF TRANSPORTATION AT www.iowadot.gov/bridge/countybrgstd.htm

ANY TEMPORARY STREAM CROSSINGS SHALL INCLUDE ENOUGH CULVERTS TO ACCOMMODATE LOW FLOWS AND MUST BE REMOVED AFTER COMPLETION OF WORK ON THIS PROJECT. TEMPORARY STREAM CROSSINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARD ROAD PLAN EW-401. THE COST OF INSTALLATION, MAINTENANCE, AND REMOVAL OF TEMPORARY CROSSINGS, INCLUDING CULVERTS, SHALL BE INCLUDED IN THE PRICE BID FOR "MOBILIZATION."

OBJECT MARKERS ON ALL FOUR CORNERS OF BRIDGE SHALL BE PLACED BY HARDIN COUNTY.

PILE NOTES

THIS PROJECT USES THE LOAD AND RESISTANCE FACTOR DESIGN (LRFD) METHODOLOGY FOR DETERMINING CONTRACT PILE LENGTH AND NOMINAL AXIAL BEARING RESISTANCE. NOMINAL AXIAL BEARING RESISTANCES WILL BE LARGER THAN BEARING VALUES IN THE PAST, BUT CONSTRUCTION CONTROL BLOW COUNTS WILL BE APPROXIMATELY THE SAME. A WEAP ANALYSIS AND BEARING GRAPH WILL BE PROVIDED BY THE COUNTY THAT GIVES THE RELATIONSHIP BETWEEN REQUIRED NOMINAL AXIAL BEARING RESISTANCE AND BLOW COUNT. FOR THE CONTRACTOR'S BIDDING PURPOSES, PARTICULARLY FOR THE SIZING OF THE PILE DRIVING HAMMER, THE APPROXIMATE PREVIOUS DESIGN METHODOLOGY BEARING VALUES AT END OF DRIVE (EOD) ARE GIVEN BELOW. THESE VALUES SHALL NOT BE USED FOR CONSTRUCTION CONTROL AND ARE GIVEN ONLY FOR COMPARATIVE PURPOSES.

THE PREVIOUS DESIGN BEARING FOR THE ABUTMENTS WOULD HAVE BEEN ABOUT 34 TONS. THE PREVIOUS BEARING FOR THE PIER PILES WOULD HAVE BEEN ABOUT 32 TONS.

THE CONTRACT LENGTH OF 45 FEET FOR THE SOUTH ABUTMENT PILES IS BASED ON A COHESIVE SOIL CLASSIFICATION, A TOTAL FACTORED AXIAL LOAD PER PILE (PU) OF 96 KIPS, AND A GEOTECHNICAL RESISTANCE FACTOR (PHI) OF 0.65 FOR SOIL AND 0.7 FOR ROCK END BEARING. THE NOMINAL AXIAL BEARING RESISTANCE FOR CONSTRUCTION CONTROL WAS DETERMINED FROM A COHESIVE SOIL CLASSIFICATION AND A GEOTECHNICAL RESISTANCE FACTOR (PHI) OF 0.78 FOR SOIL AND 0.7 FOR ROCK END BEARING. PILES ARE ASSUMED TO BE DRIVEN FROM A START ELEVATION AT THE BOTTOM OF THE FOOTING. THE REQUIRED NOMINAL AXIAL BEARING RESISTANCE FOR THE SOUTH ABUTMENT PILES IS 65 TONS AT END OF DRIVE OR RETAP. THE PILE CONTRACT LENGTH SHALL BE DRIVEN AS PER PLAN UNLESS PILES REACH REFUSAL. CONSTRUCTION CONTROL REQUIRES A WEAP ANALYSIS WITH BEARING GRAPH.

THE CONTRACT LENGTH OF 45 FEET FOR THE NORTH ABUTMENT PILES IS BASED ON A COHESIVE SOIL CLASSIFICATION, A TOTAL FACTORED AXIAL LOAD OF PER PILE (PU) OF 98 KIPS, AND A GEOTECHNICAL RESISTANCE FACTOR (PHI) OF 0.65 FOR SOIL AND 0.7 FOR ROCK END BEARING. THE NOMINAL AXIAL BEARING RESISTANCE FOR CONSTRUCTION CONTROL WAS DETERMINED FROM A COHESIVE SOIL CLASSIFICATION AND A GEOTECHNICAL RESISTANCE FACTOR (PHI) OF 0.78 FOR SOIL AND 0.7 FOR ROCK END BEARING. PILES ARE ASSUMED TO BE DRIVEN FROM A START ELEVATION AT THE BOTTOM OF THE FOOTING. THE REQUIRED NOMINAL AXIAL BEARING RESISTANCE FOR THE WEST ABUTMENT PILES IS 68 TONS AT END OF DRIVE OR RETAP. THE PILE CONTRACT LENGTH SHALL BE DRIVEN AS PER PLAN UNLESS PILES REACH REFUSAL. CONSTRUCTION CONTROL REQUIRES A WEAP ANALYSIS WITH BEARING GRAPH.

THE CONTRACT LENGTH OF 55 FEET FOR THE PIER PILES IS BASED ON A COHESIVE SOIL CLASSIFICATION, A TOTAL FACTORED AXIAL LOAD PER PILE (PU) OF 95 KIPS, AND A GEOTECHNICAL RESISTANCE FACTOR (PHI) OF 0.65 FOR SOIL AND 0.7 FOR ROCK END BEARING. THE NOMINAL AXIAL BEARING RESISTANCE FOR CONSTRUCTION CONTROL WAS DETERMINED FROM A COHESIVE SOIL CLASSIFICATION AND A GEOTECHNICAL RESISTANCE FACTOR (PHI) OF 0.79 FOR SOIL AND 0.7 FOR ROCK END BEARING. PILES ARE ASSUMED TO BE DRIVEN FROM A START ELEVATION AT THE BOTTOM OF FOOTING. THE REQUIRED NOMINAL AXIAL BEARING RESISTANCE FOR THE PIER PILES IS 63 TONS AT END OF DRIVE OR RETAP. THE PILE CONTRACT LENGTH SHALL BE DRIVEN AS PER PLAN UNLESS PILES REACH REFUSAL. CONSTRUCTION CONTROL REQUIRES A WEAP ANALYSIS WITH BEARING GRAPH.

HAZARDOUS MATERIALS NOTES

AN INSPECTION FOR THE PRESENCE OF ASBESTOS CONTAINING MATERIALS WAS COMPLETED BY: WADE HAMMERSLEY OF TERRACON CONSULTANTS INC. IA LICENSE NUMBER: 20-3919 DATE INSPECTED: MARCH 9, 2020 PHONE: 319-277-4016

ESTIMATE REFERENCE INFORMATION

- INCLUDES THE COST TO CLEAR THE CHANNEL TO THE SHAPE, DEPTH AND EXTENT SHOWN ON THE SITUATION PLAN. SUITABLE CHANNEL EXCAVATION MATERIAL MAY BE USED FOR CONSTRUCTION OF ABUTMENT BERM AND SLOPES. UNSUITABLE OR EXCESS MATERIAL MAY BE WASTED ON SITE AS DIRECTED BY THE ENGINEER. IT IS ANTICIPATED THAT NO ADDITIONAL FILL WILL BE REQUIRED ON THIS PROJECT. PAY QUANTITY SHALL BE PLAN QUANTITY EXCEPT FOR OBVIOUS ERRORS OR OMISSIONS.
- QUANTITY PERTAINS TO WORK WITHIN THE PROJECT LIMITS. PLAN QUANTITY ESTIMATED ON PLACEMENT OF 4 INCHES OVER DISTURBED AREAS NOT COVERED BY GRANULAR MATERIAL. PAY QUANTITY SHALL BE PLAN QUANTITY EXCEPT FOR OBVIOUS ERRORS OR OMISSIONS.
- THE EXISTING BRIDGE AT STATION 4+63 IS A 110' x 24' TIMBER SLAB BRIDGE BUILT IN 1984. THE STRUCTURE HAS LAMINATE DECKING, TIMBER PILING AND METAL HANDRAIL. ALL SALVAGEABLE AND UNSALVAGEABLE MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM SITE BY THE CONTRACTOR. THE EXISTING STRUCTURE SHALL BE REMOVED TO AN ELEVATION AT LEAST 1' BELOW FINISHED GROUND LINE AND TO THE EXTENT THAT IT WILL NOT INTERFERE WITH THE NEW CONSTRUCTION. BROKEN CONCRETE FROM THE ABUTMENTS AND PIER CAPS WITH SIMILAR GRADATION TO CLASS 'E' REVETMENT MAY BE PLACED ON THE BANKS AS DIRECTED BY THE ENGINEER. ALL REINFORCING SHALL BE CUT OFF FLUSH WITH THE CONCRETE. ALTERNATELY, THE CONTRACTOR MAY DISPOSE OF THE BROKEN CONCRETE OFF SITE AT A LOCATION PROVIDED BY THE CONTRACTOR.
- UNSUITABLE OR EXCESS MATERIAL MAY BE WASTED ON SITE AS DIRECTED BY THE ENGINEER. QUANTITY BASED ON ASSUMPTION THAT CHANNEL EXCAVATION AND BERM CONSTRUCTION HAVE BEEN COMPLETED. PAY QUANTITY SHALL BE PLAN QUANTITY EXCEPT FOR OBVIOUS ERRORS OR OMISSIONS.
- ALL STRUCTURAL CONCRETE FOR THE BRIDGE DECK SHALL BE CLASS "C"; SUBSTITUTION OF CLASS "D" CONCRETE IS NOT ALLOWED. INCLUDES COST OF FURNISHING AND PLACING SUBDRAIN (INCLUDING EXCAVATION) FLOODABLE BACKFILL, POROUS BACKFILL, SUBDRAIN OUTLET, AND GEOTEXTILE FABRIC AT ABUTMENTS AND SHALL INCLUDE COSTS OF ALL MATERIAL AND LABOR TO CONSTRUCT THE WING ARMORING AS DETAILED ON SHEET J30-46-06. WATER REQUIRED FOR FLOODING WILL NOT BE MEASURED SEPARATELY FOR PAYMENT. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR HEATING AND PROTECTION OF CONCRETE, IF NECESSARY. THE DECK SHALL BE TINED AND SPRAYED WITH WHITE PIGMENTED CURING COMPOUND IMMEDIATELY AFTER FINISHING OPERATIONS ARE COMPLETED AND BURLAP PLACED WITHIN 30 MINUTES AFTER THE DECK HAS BEEN TINED AND SPRAYED. WATER SHALL BE APPLIED TO THE BURLAP COVERING FOR A PERIOD OF 4 CALENDAR DAYS. CERTIFIED PLANT INSPECTION IS REQUIRED. BRIDGE DECK SMOOTHNESS DOES NOT APPLY TO THIS PROJECT. PAY QUANTITY SHALL BE PLAN QUANTITY EXCEPT FOR OBVIOUS ERRORS OR OMISSIONS.
- ALL REINFORCING STEEL SHALL BE GRADE 60.
- ALL STRUCTURAL CONCRETE FOR THE RAIL SHALL BE CLASS "C"; SUBSTITUTION OF CLASS "D" CONCRETE IS NOT ALLOWED. CERTIFIED PLANT INSPECTION IS REQUIRED. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR HEATING AND PROTECTION OF CONCRETE, IF NECESSARY.
- ALL PILING SHALL BE DRIVEN TO FULL PENETRATION IF PRACTICLE. SEE LONGITUDINAL SECTION ALONG 6 ROADWAY SHEET 3 AND PILE NOTES THIS SHEET FOR MORE INFORMATION.
- THE UNIT PRICE BID FOR ENCASEMENT SHALL BE FULL PAYMENT FOR FURNISHING AND PLACING MATERIAL AND, WHERE NECESSARY, EXCAVATION. SEE STANDARD P10L FOR DETAILS. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR HEATING AND PROTECTION OF CONCRETE, IF NECESSARY.
- ENGINEERING FABRIC TO BE PLACED UNDER ALL CLASS E REVETMENT.
- REVTMENT IS TO BE PLACED AT A THICKNESS OF 1'-6". SEE SITUATION PLAN, SHEET 3 FOR LIMITS. THE UNIT PRICE BID FOR "REVTMENT, CLASS E" SHALL INCLUDE COST OF LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO PLACE CLASS E REVETMENT ON CHANNEL BANKS IN ACCORDANCE WITH SECTION 2507 OF THE CURRENT STANDARD SPECIFICATIONS.
- SEE TABULATION 108-13A, THIS SHEET AND STANDARD ROAD PLAN TC-252.
- THE ROAD WILL BE CLOSED TO TRAFFIC. SEE SHEET 1 FOR TRAFFIC CONTROL PLAN.
- AN INSPECTION FOR THE PRESENCE OF ASBESTOS CONTAINING MATERIALS WAS COMPLETED. THE BLACK TAR ON THE WOOD ABUTMENT CAPS WAS FOUND TO CONTAIN ASBESTOS. ASBESTOS MATERIAL SHALL BE REMOVED PRIOR TO BRIDGE DEMOLITION OPERATIONS. THE LUMP SUM BID FOR "REMOVAL OF ASBESTOS" SHALL INCLUDE REMOVAL AND DISPOSAL OF ASBESTOS CONTAINING MATERIAL. A COMPLETE REPORT OF MATERIALS TESTED CAN BE OBTAINED FROM THE HARDIN COUNTY ENGINEER'S OFFICE. IF ADDITIONAL MATERIALS SUSPECTED OF CONTAINING ASBESTOS ARE DISCOVERED DURING DEMOLITION OF THE BRIDGE, WORK SHALL BE STOPPED IMMEDIATELY AND THE ENGINEER NOTIFIED.

BRIDGE STANDARDS

THE FOLLOWING BRIDGE STANDARDS SHALL BE CONSIDERED APPLICABLE TO CONSTRUCTION WORK ON THIS PROJECT.					
STANDARD	DATE ISSUED	LATEST REVISION	STANDARD	DATE ISSUED	LATEST REVISION
J30-01-06	NOVEMBER, 2006	06-13	J30-36-06	NOVEMBER, 2006	06-13
J30-01A-06	NOVEMBER, 2006	06-13	J30-39-06	NOVEMBER, 2006	07-09
J30-14B-06	NOVEMBER, 2006	07-2016	J30-43-06	NOVEMBER, 2006	12-08
J30-15B-06	NOVEMBER, 2006	07-09	J30-44-06	NOVEMBER, 2006	07-2016
J30-20-06	NOVEMBER, 2006	06-12	J30-45-06	NOVEMBER, 2006	12-08
J30-22-06	NOVEMBER, 2006	07-09	J30-46-06	NOVEMBER, 2006	09-14
J30-23-06	NOVEMBER, 2006	05-14	J30-48-06	DECEMBER, 2008	07-2016
J30-24-06	NOVEMBER, 2006	07-09	P10L		7-19

STANDARD ROAD PLANS

THE FOLLOWING STANDARD PLANS SHALL BE CONSIDERED APPLICABLE TO CONSTRUCTION WORK ON THIS PROJECT.			
IDENTIFICATION	DATE	IDENTIFICATION	DATE
EC-204	04-21-20		
EW-401	10-20-15		
SI-173	04-19-16		
TC-252	04-21-20		

SAFETY CLOSURES

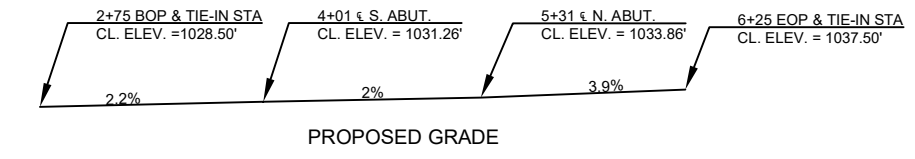
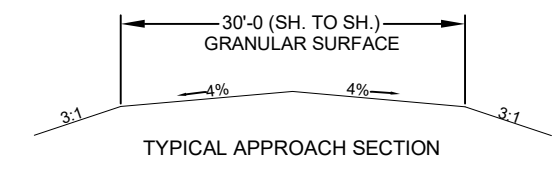
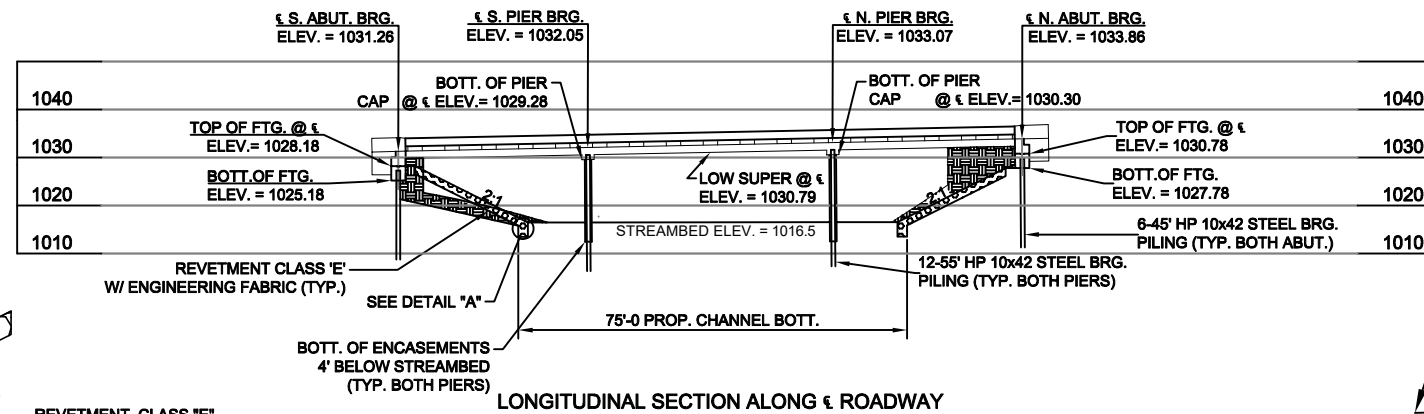
Station	Closure Type		Remarks
	Road Qty.	Hazard Qty.	
2+50	-	1	BOP
6+50	-	1	EOP
220th. St.	1	-	Per TC-252
230th. St.	1	-	Per TC-252
	2	2	Totals

**DEMOLITION
(BRIDGE REMOVAL)**

THERE IS NO PAINTED SURFACE ON THIS BRIDGE THEREFORE, NO SCRAPE SAMPLES WERE TAKEN. ASBESTOS WAS FOUND TO BE PRESENT, HOWEVER, SEE NOTE 15 THIS SHEET FOR MORE INFORMATION.

**130'-0 x 30'-6 CONTINUOUS CONCRETE
SLAB BRIDGE**
INTEGRAL ABUTMENTS MONOLITHIC P10L PIERS
STA 4+66 30° SKEW RT AHEAD
HARDIN COUNTY IOWA
ESTIMATED QUANTITIES, ESTIMATE REFERENCE INFORMATION,
AND GENERAL NOTES

BM #1, T-POST @ STA. 3+31.6, 33.3' LT
 N= 8546641.18, E= 14927424.68', ELEV.= 1023.32'



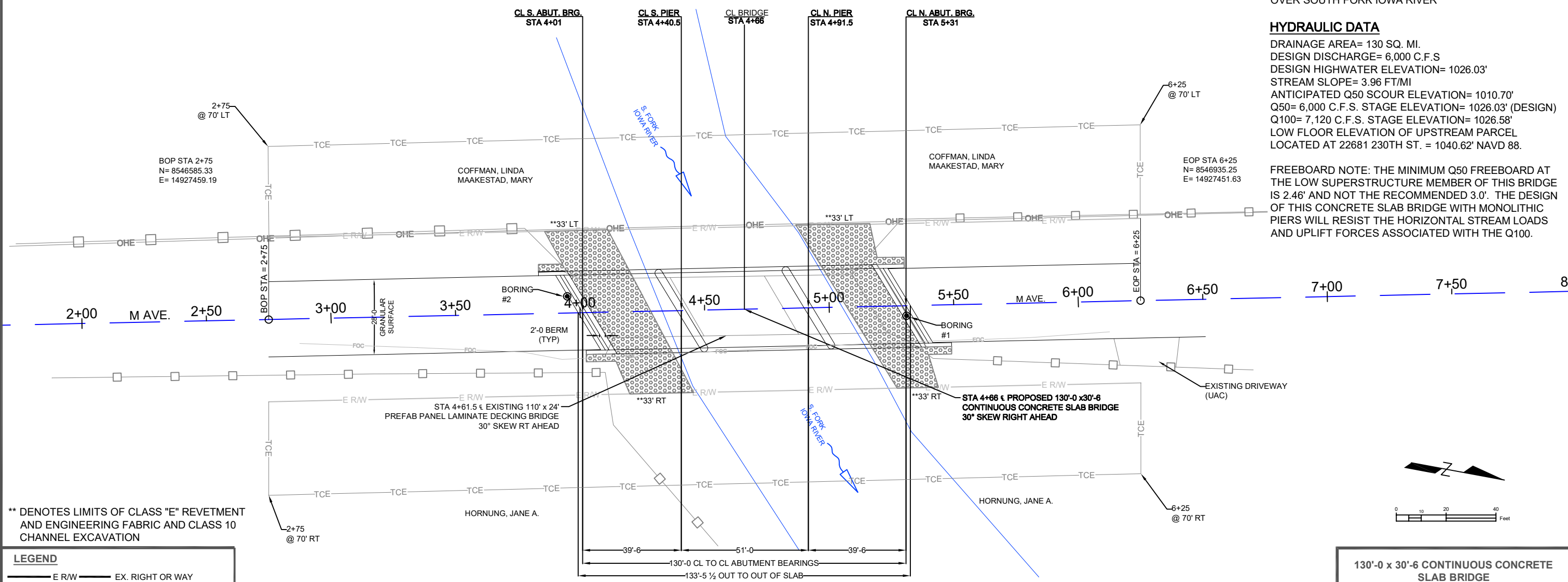
LOCATION

HARDIN COUNTY
 T-87N, R-21W
 SECTION 1
 TIPTON TOWNSHIP
 OVER SOUTH FORK IOWA RIVER

HYDRAULIC DATA

DRAINAGE AREA= 130 SQ. MI.
 DESIGN DISCHARGE= 6,000 C.F.S
 DESIGN HIGHWATER ELEVATION= 1026.03'
 STREAM SLOPE= 3.96 FT/MI
 ANTICIPATED Q50 SCOUR ELEVATION= 1010.70'
 Q50= 6,000 C.F.S. STAGE ELEVATION= 1026.03' (DESIGN)
 Q100= 7,120 C.F.S. STAGE ELEVATION= 1026.58'
 LOW FLOOR ELEVATION OF UPSTREAM PARCEL
 LOCATED AT 22681 230TH ST. = 1040.62' NAVD 88.

FREEBOARD NOTE: THE MINIMUM Q50 FREEBOARD AT THE LOW SUPERSTRUCTURE MEMBER OF THIS BRIDGE IS 2.46' AND NOT THE RECOMMENDED 3.0'. THE DESIGN OF THIS CONCRETE SLAB BRIDGE WITH MONOLITHIC PIERS WILL RESIST THE HORIZONTAL STREAM LOADS AND UPLIFT FORCES ASSOCIATED WITH THE Q100.



** DENOTES LIMITS OF CLASS "E" REVETMENT AND ENGINEERING FABRIC AND CLASS 10 CHANNEL EXCAVATION

LEGEND

—	E R/W	EX. RIGHT OR WAY
—	FOC	EX. FIBER OPTIC CABLE
—	OHE	EX. OVERHEAD ELECTRIC
—	EX. FENCELINE	EX. FENCELINE
—	TCE	TEMP. CONST. EASEMENT

130'-0 x 30'-6 CONTINUOUS CONCRETE SLAB BRIDGE
 STA 4+66 30° SKEW RT AHEAD
HARDIN COUNTY IOWA
 SITUATION PLAN

BORING LOG NO. 1

Page 1 of 2

PROJECT: Hardin County Bridge 11009 Replacement
CLIENT: Hardin County IA Eldora, IA
SITE: Tipton Township; M Avenue; about 2,400 feet south of 220th Street, Hardin County, IA

DEPTH (FL)	ELEVATION (FL)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS
1.3					
5			9	3-3-3 N=6	
9.0			12	3-3-4 N=7	
12.0			18	1-3-3 N=6 7000 (HP)	
16.0			16	3-3-4 N=7 6500 (HP)	
25			14	2-3-5 N=8 6000 (HP)	
30			18	2-2-3 N=5 4000 (HP)	

Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic

Advancement Method:
Solid stem auger to 9 feet then mud rotary to boring termination.

Abandonment Method:
Boring backfilled with soil cuttings and bentonite chips upon completion.

Notes:

WATER LEVEL OBSERVATIONS
None observed prior to mud rotary



Boring Started: 04-13-2020 Boring Completed: 04-13-2020
 Drill Rig: # 589 Driller: RF
 Project No.: 13205065.02 Exhibit: A-1

Wet cave-in at 7.5'

BORING LOG NO. 1

Page 2 of 2

PROJECT: Hardin County Bridge 11009 Replacement
CLIENT: Hardin County IA Eldora, IA
SITE: Tipton Township; M Avenue; about 2,400 feet south of 220th Street, Hardin County, IA

DEPTH (FL)	ELEVATION (FL)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS
18				18	0-1-2 N=3 3000 (HP)
16				16	2-2-3 N=5 4500 (HP)
8				8	33-33-7 N=40
2				2	50/2"
0				0	50/0.5"

Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic

Advancement Method:
Solid stem auger to 9 feet then mud rotary to boring termination.

Abandonment Method:
Boring backfilled with soil cuttings and bentonite chips upon completion.

Notes:
50% fluid loss at about 42.5 feet

WATER LEVEL OBSERVATIONS
None observed prior to mud rotary



Boring Started: 04-13-2020 Boring Completed: 04-13-2020
 Drill Rig: # 589 Driller: RF
 Project No.: 13205065.02 Exhibit: A-1

Wet cave-in at 7.5'

130'-0 x 30'-6 PRETENSIONED
 CONTINUOUS CONCRETE
 SLAB BRIDGE
 STA 4+66 30° SKEW RT AHEAD
HARDIN COUNTY IOWA
 SOUNDING DATA

BORING LOG NO. 2

Page 1 of 2

PROJECT: Hardin County Bridge 11009 Replacement
CLIENT: Hardin County IA Eldora, IA
SITE: Tipton Township; M Avenue; about 2,400 feet south of 220th Street, Hardin County, IA

DEPTH	ELEVATION (FL.)	DESCRIPTION	DEPTH (FL.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS
0.7		FILL - CRUSHED STONE, with fines					
		IDOT - SOFT SILTY CLAY FILL - LEAN CLAY, with sand, trace organics, dark brown and brown, moist					
7.0		IDOT - SOFT SILTY CLAY CLAYEY SAND (SC), trace organics, fine to coarse grained, dark brown and gray, moist to wet	9			3-2-2 N=4	
12.0		IDOT - GRAVELLY SAND CLAYEY SAND (SC), with gravel and occasional clay layers, fine to coarse grained, gray, wet	15			3-1-2 N=3	
15.5		IDOT - STIFF SANDY CLAY SANDY LEAN CLAY (CL), trace gravel, with occasional sand layers, gray, wet	7			8-11-10 N=21	
			3			2-3-4 N=7 2500 (HP)	
			18			2-3-4 N=7 5000 (HP)	
			18			1-1-2 N=3 1000 (HP)	

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL 13205065.02 HARDIN COUNTY BRIDGE TERRACON DATATEMPLATE GDT 5/11/20

Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic

Advancement Method: Solid stem auger to 9 feet then mud rotary to boring termination.

Abandonment Method: Boring backfilled with soil cuttings and bentonite chips upon completion.

WATER LEVEL OBSERVATIONS

- 10.5' observed while drilling
- 7' observed before casing removal
- 7' observed after casing removal

Terracon
3105 Capital Way, Ste 5
Cedar Falls, IA

Boring Started: 04-14-2020 Boring Completed: 04-14-2020
 Drill Rig: # 589 Driller: RF
 Project No.: 13205065.02 Exhibit: A-2

BORING LOG NO. 2

Page 2 of 2

PROJECT: Hardin County Bridge 11009 Replacement
CLIENT: Hardin County IA Eldora, IA
SITE: Tipton Township; M Avenue; about 2,400 feet south of 220th Street, Hardin County, IA

DEPTH	ELEVATION (FL.)	DESCRIPTION	DEPTH (FL.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS
		IDOT - STIFF SANDY CLAY (continued) SANDY LEAN CLAY (CL), trace gravel, with occasional sand layers, gray, wet					
		cobbles from about 36 feet					
42.0		LIMESTONE, highly weathered and broken, with occasional clay layers, light brown	18			0-0-0 N=0	
46.5		LIMESTONE, weathered, with highly weathered layers, light brown	6			10-9-11 N=20	
			10			38-23-17 N=40	
			2			50/4"	
53.5		Boring Terminated at 53.5 Feet	0			50/0.5"	

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL 13205065.02 HARDIN COUNTY BRIDGE TERRACON DATATEMPLATE GDT 5/11/20

Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic

Advancement Method: Solid stem auger to 9 feet then mud rotary to boring termination.

Abandonment Method: Boring backfilled with soil cuttings and bentonite chips upon completion.

WATER LEVEL OBSERVATIONS

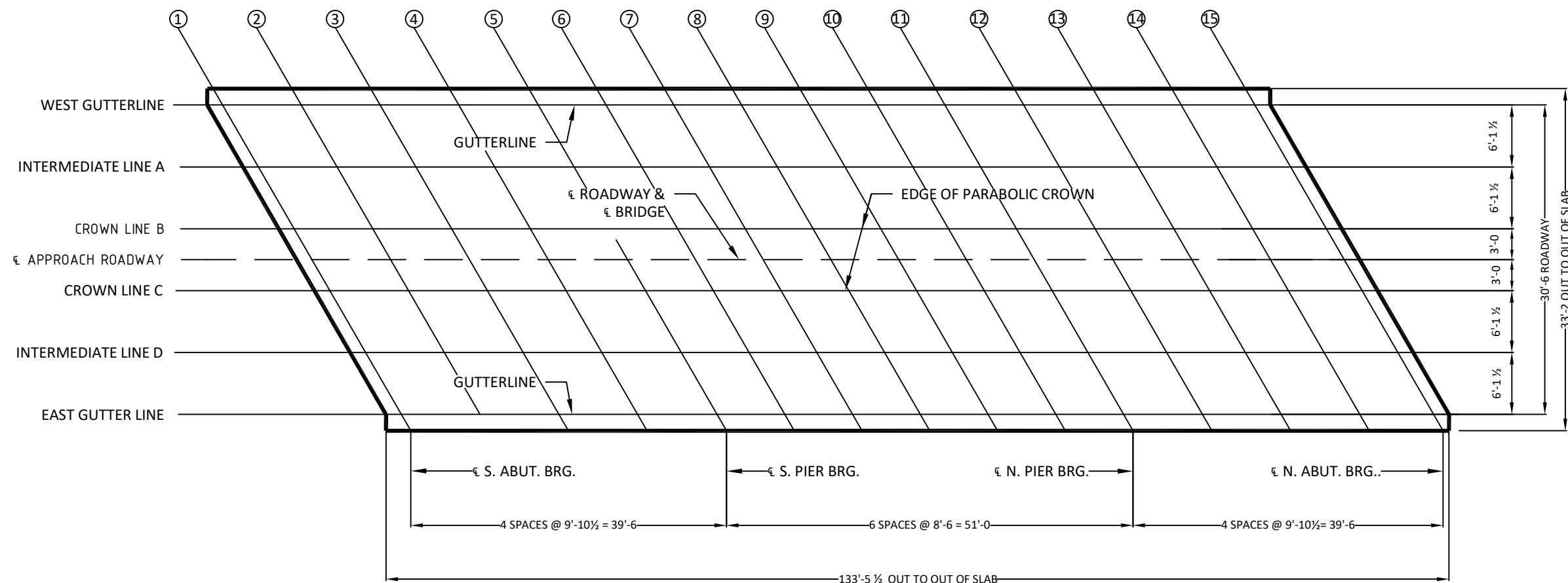
- 10.5' observed while drilling
- 7' observed before casing removal
- 7' observed after casing removal

Terracon
3105 Capital Way, Ste 5
Cedar Falls, IA

Boring Started: 04-14-2020 Boring Completed: 04-14-2020
 Drill Rig: # 589 Driller: RF
 Project No.: 13205065.02 Exhibit: A-2

Notes: 30% fluid loss at about 42 feet

130'-0 x 30'-6 PRETENSIONED
 CONTINUOUS CONCRETE
 SLAB BRIDGE
 STA 19+02 0° SKEW
HARDIN COUNTY IOWA
 SOUNDING DATA



TOP OF SLAB ELEVATIONS																
LOCATION	C.L. S. ABUT. BRG.					C.L. S. PIER						C.L. N. PIER				C.L. N. ABUT. BRG.
	LINE 1	LINE 2	LINE 3	LINE 4	LINE 5	LINE 6	LINE 7	LINE 8	LINE 9	LINE 10	LINE 11	LINE 12	LINE 13	LINE 14	LINE 15	
WEST GUTTER LINE	1030.81	1031.01	1031.20	1031.40	1031.60	1031.77	1031.94	1032.11	1032.28	1032.45	1032.62	1032.82	1033.01	1033.21	1033.41	
INTERMEDIATE LINE A	1031.00	1031.20	1031.40	1031.59	1031.79	1031.96	1032.13	1032.30	1032.47	1032.64	1032.81	1033.01	1033.21	1033.40	1033.60	
CROWN LINE B	1031.19	1031.39	1031.59	1031.79	1031.98	1032.15	1032.32	1032.49	1032.66	1032.83	1033.00	1033.20	1033.40	1033.60	1033.79	
C.L. APPROACH ROADWAY	1031.26	1031.46	1031.66	1031.85	1032.05	1032.22	1032.39	1032.56	1032.73	1032.90	1033.07	1033.27	1033.47	1033.66	1033.86	
CROWN LINE C	1031.26	1031.46	1031.66	1031.86	1032.05	1032.22	1032.39	1032.56	1032.73	1032.90	1033.07	1033.27	1033.47	1033.67	1033.86	
INTERMEDIATE LINE D	1031.21	1031.41	1031.61	1031.81	1032.00	1032.17	1032.34	1032.51	1032.68	1032.85	1033.02	1033.22	1033.42	1033.62	1033.81	
EAST GUTTER LINE	1031.16	1031.36	1031.56	1031.75	1031.95	1032.12	1032.29	1032.46	1032.63	1032.80	1032.97	1033.17	1033.37	1033.56	1033.76	

130'-0 x 30'-6 CONTINUOUS CONCRETE
 SLAB BRIDGE
 INTEGRAL ABUTMENTS MONOLITHIC P10L PIERS
 STA 4+66 30° SKEW RT AHEAD
HARDIN COUNTY IOWA
 SUPERSTRUCTURE DETAILS



HARDIN COUNTY

Auditor's Office

Order # 5907

Date: 6/30/2020

To the Treasurer of Hardin County Iowa:

You are hereby authorized to: Abate the 2018 taxes of:
(Add/Abate/Suspend)

Ellsworth Neighborhood Investment Group LLC 590 Iowa Falls City
 Owner's Name 89-20-18-159-026 Torn down building
 Parcel Number 89-20-18-159-026 Property Description Torn down building
 Tax District

Credits	Military Values	Homestead Credit	Ag Land Credit	Family Farm Credit	Elderly Credit	BPTC Credit
Gross Value	-	-	-	-	-	-
% Funded			-			
Net	-	-	-	-	-	-

Class R Levy Rate 0.03772316 Rollback 56.9180%

VALUES

Old Bldg Value	\$ 167,330	New 100% Bldg Value	\$ -	New Taxable Bldg	\$ -
Old Land Value	\$ 16,930	New 100% Land Value	\$ 16,930	New Taxable Land	\$ 9,636
Old Dwelling	\$ -	New 100% Dwelling	\$ -	New Taxable Dwell	\$ -
Military Credit					\$ -
Total Old Value	\$ 184,260	Total New Value	\$ 16,930	Total New Taxable	\$ 9,636

TAX AMOUNTS

Old Tax Amount	\$ 6,256.00	Less Amount Paid	\$ 3,128.00		
New Gross Tax	\$ 363.51	Less Credits	\$ -	New Net Tax	\$ 364

Reason For Change BOS tax compromise

Amount Due \$ 2,764.00 Tax Receipt # 186884
 Net change \$ (5,892.49)

Machel Eichmeier
Hardin County Treasurer
P.O. Box 391
Eldora, IA 50627
meichmeier@hardincountyia.gov

Receipt#
186884
Parcel #
000892018159026

Machel Eichmeier
Hardin County Treasurer
P.O. Box 391
Eldora, IA 50627
meichmeier@hardincountyia.gov

Receipt#
186884
Parcel #
000892018159026

TOTAL TAX DUE: or **Sept 1, 2019**
\$364.00 **\$3128.00**
004472000 Delinquent: Oct 1, 2019

TAX DUE: **March 1, 2020**
-\$2764.00
004472000 Delinquent: April 1, 2020

ELLSWORTH NEIGHBORHOOD INVESTMENT GROUP LLC
1611 West Lakes Pkwy
West Des Moines, IA 50266

ELLSWORTH NEIGHBORHOOD INVESTMENT GROUP
1611 West Lakes Pkwy
West Des Moines, IA 50266

590 Iowa Falls City

590 Iowa Falls City

Hardin County Tax Bill for September 2019 and March 2020. Please keep in a safe place. Send the correct stubs along with your check for payment. If your taxes are paid by your Bank in Escrow, this is for your information only. SEE REVERSE SIDE. Based on January 1, 2018 Valuations. Taxes cover the period from July 1, 2018 to June 30, 2019. Payable September 2019 and March 2020.

Parcel #: 000892018159026

Location:

590 Iowa Falls City

Gross Acres -
Exempt Acres -
Net Acres -

LEGAL Description: Tom down building

VALUATIONS AND TAXES THIS YEAR			LAST YEAR		TAX DUE	Delinquent Tax, Specials, Drainage, Tax Sale
R	Assessed	Taxable	Assessed	Taxable		
Land:	16,930	9,636	-	-		
Buildings:	-	-	-	-		
Dwelling:	-	-	-	-		
TOTAL VALUE:	16,930	9,636	-	-		
Less Military Exemption:						
NET TAXABLE VALUE:		59,636			\$0	
Value Times Levy per 1000 of:	37.7231600		38.9716000			004472000
EQUALS GROSS TAX OF:		363.50				
Less Credits of:						
Homestead Credit:						ELLSWORTH NEIGHBORHOOD INVESTMENT GF
Ag Land Credit:						1611 West Lakes Pkwy
Family Farm Credit:						West Des Moines, IA 50266
Business Prop Tax Credit Fund:						
Low Income/Elderly Credit:						
Prepaid Tax:						
NET ANNUAL TAXES:		\$364.00		\$0.00		

YOU MAY PAY ONLINE AT: WWW.IOWATREASURERS.ORG

Machel Eichmeier Hardin County Treasurer P.O. Box 391 Eldora, IA 50627 meichmeier@hardincountyia.gov	Receipt# 186884	DUE Sept. 1, 2019	\$3128.00	DUE March 1, 2020	-\$2764.00
	Date Paid:	_____		Date Paid:	_____
	CHECK#	_____		CHECK#	_____

Real Estate Pro v11.02018170000

Save and Close | Print Screen | Help | Documents (0)

Parcel: 5932014150000 District: 59320 2018 PARCEL INFO Class: C Commercial

Owner: [REDACTED] Alerts: Legal: GREENHILL MANSION BLOCK 51

Year: 2018 Treasurer: Serial: 00000000000000000000

Overview	2018 Full Value	Exempt Value	Assessed Value	Taxable Value
General				
Ownership	Land Value 16,834			
Billed Owners	Building Value 187,330			
Site Address	Dwelling Value 0			
Legal	Total Value 204,164		184,260	165,834
Values	Net Acres 0.000			
Tax Breakdown	Adjusted CSP 0.00			
(0) Credits	Unadjusted CSP 0.00			
(2) Transfers	# of Units 1,000			
(0) Lienage	# of Buildings 1			
(0) Drainage	# of Dwellings 0			
(3) Notes				
(0) Certificates	CSR Per Acre Exemptions (0)	Reconciliation	Edit Taxable	
(0) Advanced Payments	Value Type			
Changes	Property Class	Change Class	TIF District 59320-12	Frozen Base 0.00
Assessor Parcel	Sub Class	Change District		View Snapshots
Auditor Parcel	Tax District			
Beacon Map				
Beacon				
Documents				

Property Class	District	Active	Current	Exempt	Assessed	Taxable
C	59320		184,260		184,260	165,834
			184,260		184,260	165,834

2018 tax year \$6256-
 pd \$3128- 9/30/19

Parcel: 892018159026 District: 59000 - IOWA FALLS CITY Class: C - Commercial
 Owner: Ellsworth Neighborhood Inve.. Alerts (0) Legal: GREENMAN & HAWES- BLOCK 6 L..
 Year: 2020 ASSESSOR Situs: 226 ROCKSYLVANIA

Overview		2020 Full Value	Exempt Value	Assessed Value	Taxable Value
General	Land Value	16,930	0	16,930	16,930
Ownership	Building Value	0	0	0	0
Situs Address	Dwelling Value	0	0	0	0
Legal	Total Value	16,930	0	16,930	16,930
Values	Net Acres	0.100	0.000	0.000	
Tax Breakdown	Adjusted CSR	0.00	0.00	0.00	
(0) Credits	Unadjusted CSR	0.00	0.00	0.00	
(2) Transfers	# of Units	1.000	0.000	1.000	
(0) Lineage	# of Buildings	1	0	1	
(3) Notes	# of Dwellings	0	0	0	
(0) Certificates					
(0) Advanced Payments					
Charges		CSR Per Acre	Exemptions (0)	Reconciliation	Edit Taxable
Auditor Parcel	Value Type				
Treasurer Parcel	Property Class	C - Commercial		Change Class	
Beacon Map	Sub Class				
Beacon	Tax District	59000 - IOWA FALLS CITY		Change District	View Snapshots
Documents					

Add Deactivate

Property Class	District	Δ	Active	▽	Current	Exempt	Assessed	Taxable
C	59000		<input checked="" type="checkbox"/>		16.930		16.930	16.930
					16.930		16.930	16.930

Parcel: 892018159026 District: 59000 - IOWA FALLS CITY Class: C - Commercial
 Owner: Ellsworth Neighborhood Inve.. Alerts (0) Legal: GREENMAN & HAWES- BLOCK 6 L..
 Year: 2018 AUDITOR Situs: 226 PENNSYLVANIA

- Overview
- General
- Ownership
- Situs Address
- Legal
- Values
- Tax Breakdown
- (0) Credits
- (2) Transfers
- (0) Lineage
- (0) Drainage
- (3) Notes
- (0) Certificates
- (0) Advanced Payments
- Charges
- Assessor Parcel
- Treasurer Parcel
- Beacon Map
- Beacon
- Documents

	2019 Full Value	Exempt Value	Assessed Value	Taxable Value
Land Value	16,930	0	16,930	15,237
Building Value	0	0	0	0
Dwelling Value	0	0	0	0
Total Value	16,930	0	16,930	15,237
Net Acres	0.000	0.000	0.000	
Adjusted CSR	0.00	0.00	0.00	
Unadjusted CSR	0.00	0.00	0.00	
# of Units	1.000	1.000	1.000	
# of Buildings	1	0	1	
# of Dwellings	0	0	0	

CSR Per Acre	Exemptions (0)	Reconciliation	Edit Taxable

Value Type	Property Class	Change Class	TIF District	Frozen Ease
	<u>C - Commercial</u>	<u>Change Class</u>	<u>59300 - 10</u>	<u>0.00</u>
	<u>Sub Class</u>	<u>Change District</u>	<u>View Snapshots</u>	
	<u>Tax District: 59000 - IOWA FALLS CITY</u>			

Property Class	District	Δ	Active	▽	Current	Exempt	Assessed	Taxable
C	59000		<input checked="" type="checkbox"/>		16,930		16,930	15,237
					16,930		16,930	15,237