

	ARD S		PROJECT NUM	TOTAL SHEETS 46 BER			
ISSUED	REVISED		IMN-080-8(347)284-0E-82				
			TMN-080-8(347)294-	-0E-82			
		F	R.O.W. PROJECT N	IUMBER			
		PROJE	CT IDENTIFICAT	ION NUMBER			
			21-82-080-05	0			
		IN	DEX OF SI	HEETS			
		NO.	DESCRIPTION				
			TITLE SHEET				
		2	ESTIMATE SHEET - DESIGN 123				
		2-22	DESIGN 123				
		C.I-C.3	ESTIMATE SHEET FOR ROADWAY				
		A.I-U.I	ROADWAY SHEETS				
٩S							

STED		INDEX OF SEALS								
	SHEET NO.	NAME	TYPE							
	I	ASHLEY COOK	STRUCTURAL DESIGN							
P.D.	A.I	STEPHANIE HEMBERGER	ROADWAY DESIGN							

STRUCTURAL DESIGN						
ASHLEY E. COOK 26544	I hereby certify that this engineering docume by me or under my direct personal supervis am a duly licensed Professional Engineer und of the State of Iowa. MMMyCather Signature Ashley Cook	nt was prepared sion and that I der the laws <u>II-I9-2021</u> Date				
In IOWA	Printed or Typed Name					
	My license renewal date is December 31	, 2022				
ages or sheets covered by this seal:						

NUMBER IMN-080-8(347)294-0E-82 SHEET NUMBER	
---	--

		ESTIMATED BRIDGE QUANTITIES			
ITEM N	IO. ITEM COD	E ITEM	UNIT	TOTAL	AS BUILT
	2401-6750	DOI REMOVALS, AS PER PLAN	LS	1.00	
2	2402-2720	DOO EXCAVATION CLASS 20	CY CY	28	
4	2404-7775	DOS REINFORCING STEEL, EPOXY COATED	LB	62,118	
5	2404-7775	DO9 REINFORCING STEEL, STAINLESS STEEL	LB	3,226	
6	2407-0551	267 BEAM, PRETENSTONED PRESTRESSED CONCRETE, B67	LACH	436.5	_
8	2507-2638	550 BRIDGE WING ARMORING - EROSIONS STONE	SY	13.5	
9	2508-0970	DOO CONTAINMENT	LS	1.00	
10	2533-4980	DOG FAINTING OF STRUCTURAL STEEL	LS	1.00	
		ESTIMATE REFERENCE INFORMATIO	N		
ITEM NO.	ITEM CODE	DESCRIPTION			
2	2401-6750001 2402-2720000	REMOVALS, AS PER PLAN INCLUDES ALL WORK FOR REMOVAL AND OFF-SITE DISPOSAL OF DECK, ABUTMENT DI REMOVAL OF SCHEDULED ITEMS SHALL BE IN ACCORDANCE WITH SECTION 2401, OF MATERIAL NOT TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR EXCAVATION CLASS 20	APHRAGMS, BEAMS, THE STANDARD SPE AND REPAIRED AT	AND SUBDRAIN CIFICATIONS. A NO EXTRA COST	MATERIALS. NY DAMAGE TO TO THE STATE.
2	2401-6750001 2402-2720000	REMOVALS, AS PER PLAN INCLUDES ALL WORK FOR REMOVAL AND OFF-SITE DISPOSAL OF DECK, ABUTMENT DI REMOVAL OF SCHEDULED ITEMS SHALL BE IN ACCORDANCE WITH SECTION 2401, OF MATERIAL NOT TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR EXCAVATION CLASS 20 INCLUDES COST OF EXCAVATION AND FURNISHING AND PLACING BACKFILL, SUBDRAI AT THE ABUTMENTS.	APHRAGMS, BEAMS, THE STANDARD SPE AND REPAIRED AT NS, OUTLETS, FLO	AND SUBDRAIN CIFICATIONS. A NO EXTRA COST ODING, AND GEO	MATERIALS. NY DAMAGE TO TO THE STATE. TEXTILE FABRIC
2	2401-6750001 2402-2720000 2403-0100010	REMOVALS, AS PER PLAN INCLUDES ALL WORK FOR REMOVAL AND OFF-SITE DISPOSAL OF DECK, ABUTMENT DI REMOVAL OF SCHEDULED ITEMS SHALL BE IN ACCORDANCE WITH SECTION 2401, OF MATERIAL NOT TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR EXCAVATION CLASS 20 INCLUDES COST OF EXCAVATION AND FURNISHING AND PLACING BACKFILL, SUBDRAI AT THE ABUTMENTS. STRUCTURAL CONCRETE (BRIDGE) INCLUDES ALL RESILIENT JOINT FILLER REQUIRED, CONCRETE SEALER ON BEAM EN THESE PLANS, AND 8 DRAINS AT 96 LBS STEEL PER DRAIN.	APHRAGMS, BEAMS, THE STANDARD SPE AND REPAIRED AT NS, OUTLETS, FLO DS AS WELL AS AB	AND SUBDRAIN CIFICATIONS. A NO EXTRA COST ODING, AND GEO UTMENT SEATS A	MATERIALS. NY DAMAGE TO TO THE STATE. TEXTILE FABRIC S NOTED IN
2	2401-6750001 2402-2720000 2403-0100010 2404-77505	REMOVALS, AS PER PLAN INCLUDES ALL WORK FOR REMOVAL AND OFF-SITE DISPOSAL OF DECK, ABUTMENT DI REMOVAL OF SCHEDULED ITEMS SHALL BE IN ACCORDANCE WITH SECTION 2401, OF MATERIAL NOT TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR EXCAVATION CLASS 20 INCLUDES COST OF EXCAVATION AND FURNISHING AND PLACING BACKFILL, SUBDRAI AT THE ABUTMENTS. STRUCTURAL CONCRETE (BRIDGE) INCLUDES ALL RESILIENT JOINT FILLER REQUIRED, CONCRETE SEALER ON BEAM EN THESE PLANS, AND 8 DRAINS AT 96 LBS STEEL PER DRAIN. REINFORCING STEEL, EPOXY COATED INCLUDES 54,547 LBS. IN THE DECK AND ABUTMENTS, AND 7,571 LBS. IN THE BA	APHRAGMS, BEAMS, THE STANDARD SPE AND REPAIRED AT NS, OUTLETS, FLO IDS AS WELL AS AB RRIER RAILS.	AND SUBDRAIN CIFICATIONS. A NO EXTRA COST ODING, AND GEO UTMENT SEATS A	MATERIALS. NY DAMAGE TO TO THE STATE. TEXTILE FABRIC S NOTED IN
1 2 3 4 5	2401-6750001 2402-2720000 2403-0100010 2404-77505 2404-7775009	REMOVALS, AS PER PLAN INCLUDES ALL WORK FOR REMOVAL AND OFF-SITE DISPOSAL OF DECK, ABUTMENT DI REMOVAL OF SCHEDULED ITEMS SHALL BE IN ACCORDANCE WITH SECTION 2401, OF MATERIAL NOT TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR EXCAVATION CLASS 20 INCLUDES COST OF EXCAVATION AND FURNISHING AND PLACING BACKFILL, SUBDRAI AT THE ABUTMENTS. STRUCTURAL CONCRETE (BRIDGE) INCLUDES ALL RESILIENT JOINT FILLER REQUIRED, CONCRETE SEALER ON BEAM EN THESE PLANS, AND 8 DRAINS AT 96 LBS STEEL PER DRAIN. REINFORCING STEEL, EPOXY COATED INCLUDES 54,547 LBS. IN THE DECK AND ABUTMENTS, AND 7,571 LBS. IN THE BA REINFORCING STEEL, STAINLESS STEEL INCLUDES 3,226 LBS. IN THE BARRIER RAILS. PEAMS PRETENTIONED PRESTREESED CONCRETE REG	APHRAGMS, BEAMS, THE STANDARD SPE AND REPAIRED AT NS, OUTLETS, FLO DS AS WELL AS AB RRIER RAILS.	AND SUBDRAIN CIFICATIONS. A NO EXTRA COST ODING, AND GEO UTMENT SEATS A	MATERIALS. NY DAMAGE TO TO THE STATE. TEXTILE FABRIC S NOTED IN
1 2 3 4 5 6	2401-6750001 2402-2720000 2403-0100010 2404-77505 2404-7775009 2407-0551267	REMOVALS, AS PER PLAN INCLUDES ALL WORK FOR REMOVAL AND OFF-SITE DISPOSAL OF DECK, ABUTMENT DI REMOVAL OF SCHEDULED ITEMS SHALL BE IN ACCORDANCE WITH SECTION 2401, OF MATERIAL NOT TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR EXCAVATION CLASS 20 INCLUDES COST OF EXCAVATION AND FURNISHING AND PLACING BACKFILL, SUBDRAI AT THE ABUTMENTS. STRUCTURAL CONCRETE (BRIDGE) INCLUDES ALL RESILIENT JOINT FILLER REQUIRED, CONCRETE SEALER ON BEAM EN THESE PLANS, AND 8 DRAINS AT 96 LBS STEEL PER DRAIN. REINFORCING STEEL, EPOXY COATED INCLUDES 54,547 LBS. IN THE DECK AND ABUTMENTS, AND 7,571 LBS. IN THE BA REINFORCING STEEL, STAINLESS STEEL INCLUDES 3,226 LBS. IN THE DARRIER RAILS. BEAMS, PRETENTIONED PRESTRESSED CONCRETE, B67 INCLUDES GANTACTOR FILLING OUT BEAM NUMBERS BY LOCATION AND BEAM AND FORWARDING ELECTRONIC SPREADSHEET TO THE ENGINEER.	APHRAGMS, BEAMS, THE STANDARD SPE AND REPAIRED AT NS, OUTLETS, FLO DS AS WELL AS AB RRIER RAILS.	AND SUBDRAIN CIFICATIONS. A NO EXTRA COST ODING, AND GEO UTMENT SEATS A LENGTHS ARE US IN "PCC BEAM D	MATERIALS. NY DAMAGE TO TO THE STATE. TEXTILE FABRIC S NOTED IN ED FOR THIS ATA SPREADSHEET
1 2 3 4 5 6 7	2401-6750001 2402-2720000 2403-0100010 2404-77505 2404-7775009 2407-0551267 2414-6424110	REMOVALS, AS PER PLAN INCLUDES ALL WORK FOR REMOVAL AND OFF-SITE DISPOSAL OF DECK, ABUTMENT DI REMOVAL OF SCHEDULED ITEMS SHALL BE IN ACCORDANCE WITH SECTION 2401, OF MATERIAL NOT TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR EXCAVATION CLASS 20 INCLUDES COST OF EXCAVATION AND FURNISHING AND PLACING BACKFILL, SUBDRAI AT THE ABUTMENTS. STRUCTURAL CONCRETE (BRIDGE) INCLUDES ALL RESILIENT JOINT FILLER REQUIRED, CONCRETE SEALER ON BEAM EN THESE PLANS, AND 8 DRAINS AT 96 LBS STEEL PER DRAIN. REINFORCING STEEL, EPOXY COATED INCLUDES 54,547 LBS. IN THE DECK AND ABUTMENTS, AND 7,571 LBS. IN THE BA REINFORCING STEEL, STAINLESS STEEL INCLUDES 3,226 LBS. IN THE BARRIER RAILS. BEAMS, PRETENTIONED PRESTRESSED CONCRETE, B67 INCLUDES CONTRACTOR FILLING OUT BEAM NUMBERS BY LOCATION AND BEAM AND FORWARDING ELECTRONIC SPREADSHEET TO THE ENGINEER. CONCRETE BARRIER RAILING IF PLACEMENT OF CONRETE IS DONE BY THE SLIPFORMING METHOD, CLASS BR CONC BARRIER RAILS SHALL USE CLASS C MIX. PRICE BID FOR THIS ITEM SHALL INCLU IF REQUIRED FOR PLACEMENT OF THE CONCRETE.	APHRAGMS, BEAMS, THE STANDARD SPE AND REPAIRED AT NS, OUTLETS, FLO DS AS WELL AS AB RRIER RAILS. TANDARD STIRRUP SEAT ELEVATIONS RETE IS REQUIRED DE THE COST OF C	AND SUBDRAIN CIFICATIONS. A NO EXTRA COST ODING, AND GEO UTMENT SEATS A LENGTHS ARE US IN "PCC BEAM D . CAST-IN-PLACE FO	MATERIALS. NY DAMAGE TO TO THE STATE. TEXTILE FABRIC S NOTED IN ED FOR THIS ATA SPREADSHEET E RMS
1 2 3 4 5 6 7 8	2401-6750001 2402-2720000 2403-0100010 2404-77505 2404-7775009 2407-0551267 2414-6424110 2507-2638650	REMOVALS, AS PER PLAN INCLUDES ALL WORK FOR REMOVAL AND OFF-SITE DISPOSAL OF DECK, ABUTMENT DI REMOVAL OF SCHEDULED ITEMS SHALL BE IN ACCORDANCE WITH SECTION 2401, OF MATERIAL NOT TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR EXCAVATION CLASS 20 INCLUDES COST OF EXCAVATION AND FURNISHING AND PLACING BACKFILL, SUBDRAI AT THE ABUTMENTS. STRUCTURAL CONCRETE (BRIDGE) INCLUDES ALL RESILIENT JOINT FILLER REQUIRED, CONCRETE SEALER ON BEAM EN THESE PLANS, AND 8 DRAINS AT 96 LBS STEEL PER DRAIN. REINFORCING STEEL, EPOXY COATED INCLUDES 54,547 LBS. IN THE DECK AND ABUTMENTS, AND 7,571 LBS. IN THE BAR REINFORCING STEEL, STAINLESS STEEL INCLUDES 3,226 LBS. IN THE BARRIER RAILS. BEAMS, PRETENTIONED PRESTRESSED CONCRETE, B67 INCLUDES CONTRACTOR FILLING OUT BEAM NUMBERS BY LOCATION AND BEAM AND FORWARDING ELECTRONIC SPREADSHEET TO THE ENGINEER. CONCRETE BARRIER RAILING IF PLACEMENT OF CONRETE IS DONE BY THE SLIPFORMING METHOD, CLASS BR CONC BARRIER RAIL USE CLASS C MIX. PRICE BID FOR THIS ITEM SHALL INCLUDE IF REQUIRED FOR PLACEMENT OF THE CONCRETE. BRIDGE WING ARMORING - EROSION STONE INCLUDES FURNISHING AND PLACING ENGINEERING FABRIC, EROSION STONE, AND A	APHRAGMS, BEAMS, THE STANDARD SPEN AND REPAIRED AT NS, OUTLETS, FLO DS AS WELL AS ABU RRIER RAILS. TANDARD STIRRUP SEAT ELEVATIONS RETE IS REQUIRED DE THE COST OF CO LL REQUIRED EXCA	AND SUBDRAIN CIFICATIONS. A NO EXTRA COST ODING, AND GEO UTMENT SEATS A LENGTHS ARE US IN "PCC BEAM D . CAST-IN-PLAC ST-IN-PLACE FO VATING, SHAPIN	MATERIALS. NY DAMAGE TO TO THE STATE. TEXTILE FABRIC S NOTED IN ED FOR THIS ATA SPREADSHEET E RMS G, AND
1 2 3 4 5 6 7 7 8 8 9	2401-6750001 2402-2720000 2403-0100010 2404-77505 2404-7775009 2407-0551267 2414-6424110 2507-2638650 2508-0970000	<pre>REMOVALS, AS PER PLAN INCLUDES ALL WORK FOR REMOVAL AND OFF-SITE DISPOSAL OF DECK, ABUTMENT DI REMOVAL OF SCHEDULED ITEMS SHALL BE IN ACCORDANCE WITH SECTION 2401, OF MATERIAL NOT TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR EXCAVATION CLASS 20 INCLUDES COST OF EXCAVATION AND FURNISHING AND PLACING BACKFILL, SUBDRAI AT THE ABUTMENTS. STRUCTURAL CONCRETE (BRIDGE) INCLUDES ALL RESILIENT JOINT FILLER REQUIRED, CONCRETE SEALER ON BEAM EN THESE PLANS, AND 8 DRAINS AT 96 LBS STEEL PER DRAIN. REINFORCING STEEL, EPOXY COATED INCLUDES 54,547 LBS. IN THE DECK AND ABUTMENTS, AND 7,571 LBS. IN THE BA REINFORCING STEEL, STAINLESS STEEL INCLUDES 3,226 LBS. IN THE DECK AND ABUTMENTS, AND 7,571 LBS. IN THE BA REINFORCING STEEL, STAINLESS STEEL INCLUDES 3,226 LBS. IN THE BARRIER RAILS. BEAMS, PRETENTIONED PRESTRESSED CONCRETE, B67 INCLUDES CONTRACTOR FILLING OUT BEAM NUMBERS BY LOCATION AND BEAM AND FORWARDING ELECTRONIC SPREADSHEET TO THE ENGINEER. CONCRETE BARRIER RAILING IF PLACEMENT OF CONRETE IS DONE BY THE SLIPFORMING METHOD, CLASS BR CONC BARRIER RAILS SHALL USE CLASS C MIX. PRICE BID FOR THIS ITEM SHALL INCLL IF REQUIRED FOR PLACEMENT OF THE CONCRETE. BRIDGE WING ARMORING - EROSION STONE INCLUDES FURNISHING AND PLACING ENGINEERING FABRIC, EROSION STONE, AND A COMPACTING FOR WING ARMORING. CONTAINMENT THE DISPOSAL WILL BE PAID FOR AS PART OF CONTAINMENT.</pre>	APHRAGMS, BEAMS, THE STANDARD SPEI AND REPAIRED AT NS, OUTLETS, FLO DS AS WELL AS AB RRIER RAILS. TANDARD STIRRUP SEAT ELEVATIONS RETE IS REQUIRED DE THE COST OF C LL REQUIRED EXCA	AND SUBDRAIN CIFICATIONS. A NO EXTRA COST ODING, AND GEO UTMENT SEATS A LENGTHS ARE US IN "PCC BEAM D . CAST-IN-PLAC ST-IN-PLACE FO VATING, SHAPIN	MATERIALS. NY DAMAGE TO TO THE STATE. TEXTILE FABRIC S NOTED IN ED FOR THIS ATA SPREADSHEET E RMS G, AND
1 2 3 4 5 6 7 7 8 8 9 10	2401-6750001 2402-2720000 2403-0100010 2404-77505 2404-7775009 2407-0551267 2414-6424110 2507-2638650 2508-0970000 2508-0991000	REMOVALS, AS PER PLAN INCLUDES ALL WORK FOR REMOVAL AND OFF-SITE DISPOSAL OF DECK, ABUTMENT DI REMOVAL OF SCHEDULED ITEMS SHALL BE IN ACCORDANCE WITH SECTION 2401, OF MATERIAL NOT TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR EXCAVATION CLASS 20 INCLUDES COST OF EXCAVATION AND FURNISHING AND PLACING BACKFILL, SUBDRAI AT THE ABUTMENTS. STRUCTURAL CONCRETE (BRIDGE) INCLUDES ALL RESILIENT JOINT FILLER REQUIRED, CONCRETE SEALER ON BEAM EN THESE PLANS, AND 8 DRAINS AT 96 LBS STEEL PER DRAIN. REINFORCING STEEL, EPOXY COATED INCLUDES 54,547 LBS. IN THE DECK AND ABUTMENTS, AND 7,571 LBS. IN THE BA REINFORCING STEEL, STAINLESS STEEL INCLUDES 3,226 LBS. IN THE DECK AND ABUTMENTS, AND 7,571 LBS. IN THE BA REINFORCING STEEL, STAINLESS STEEL INCLUDES 3,226 LBS. IN THE BARRIER RAILS. BEAMS, PRETENTIONED PRESTRESSED CONCRETE, B67 INCLUDES CONTRACTOR FILLING OUT BEAM NUMBERS BY LOCATION AND BEAM AND FORWARDING ELECTRONIC SPREADSHEET TO THE ENGINEER. CONCRETE BARRIER RAILING IF PLACEMENT OF CONRETE IS DONE BY THE SLIPFORMING METHOD, CLASS BR CONC BARRIER RAILS SHALL USE CLASS C MIX. PRICE BID FOR THIS ITEM SHALL INCLL IF REQUIRED FOR PLACEMENT OF THE CONCRETE. BRIDGE WING ARMORING - EROSION STONE INCLUDES FURNISHING AND PLACING ENGINEERING FABRIC, EROSION STONE, AND A COMPACTING FOR WING ARMORING. CONTAINMENT THE DISPOSAL WILL BE PAID FOR AS PART OF CONTAINMENT. PAINTING OF STRUCTURAL STEEL 	APHRAGMS, BEAMS, THE STANDARD SPEI AND REPAIRED AT NS, OUTLETS, FLO DS AS WELL AS AB RRIER RAILS. TANDARD STIRRUP SEAT ELEVATIONS RETE IS REQUIRED DE THE COST OF C LL REQUIRED EXCA	AND SUBDRAIN CIFICATIONS. A NO EXTRA COST ODING, AND GEO UTMENT SEATS A LENGTHS ARE US IN "PCC BEAM D . CAST-IN-PLACE FO VATING, SHAPIN	MATERIALS. NY DAMAGE TO TO THE STATE. TEXTILE FABRIC S NOTED IN ED FOR THIS ATA SPREADSHEET E RMS G, AND

NOTE: ROADWAY QUANTITIES SHOWN ELSEWHERE IN THESE PLANS.

design team **HNTB**

11/17/2021 10:55:46 PM acook

pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8208005021\Bridge\BRFinal\HNTB\BRG_82080347.dgn 82080347S001 11x17_pdf.pltcfg



GENERAL NOTES:

THIS DESIGN IS FOR REPAIRS TO THE EXISTING 215'-5 x 28' PRESTRESSED, PRETENSIONED CONCRETE BEAM BRIDGE ON N. DIVISION ST. OVER 1-80, COPIES OF ORIGINAL DESIGN PLANS WILL BE MADE AVAILABLE TO THE CONTRACTOR AS PART OF THE E-FILES SUPPLIED WITH THE CONTRACT DOCUMENTS. SEE SITUATION PLAN FOR LIST OF REPAIR ITEMS.

ALL ALIGNMENT. STATIONING, AND CONNECTING DIMENSIONS USED IN THE NEW DETAILS IN THESE PLANS WERE DEVELOPED BASED ON THE EXISTING BRIDGE PLANS. ELEVATIONS ARE BASED ON FIELD SURVEY PERFORMED AS PART OF THIS DESIGN. THE BRIDGE CONTRACTOR SHALL FIELD VERIFY THESE DIMENSIONS AND DETAILS BEFORE STARTING CONSTRUCTION.

FAINT LINES ON PLANS INDICATE EXISTING PORTIONS OF THE BRIDGE.

UTILITY COMPANIES WHOSE FACILITIES ARE SHOWN ON THE PLANS OR KNOWN TO BE WITHIN THE CONSTRUCTION LIMITS SHALL BE NOTIFIED BY THE BRIDGE CONTRACTOR OF THE STARTING DATE.

CONCRETE BARRIER RAILS PLACED USING THE SLIPFORM METHOD WILL REQUIRE THE USE OF A CLASS BR CONCRETE IN ACCORDANCE WITH ARTICLE 2513.03, A, 2, OF THE STANDARD SPECIFICATIONS. CAST-IN-PLACE BARRIER RAILS SHALL USE CLASS C MIX. CLASS D CONCRETE IS NOT PERMITTED FOR CONCRETE BARRIER RAILS (CAST-IN-PLACE OR SLIPFORMED METHOD).

THE BRIDGE DECK IS DESIGNED FOR HS20-44 LOADING PLUS 20 LB. PER SQUARE FOOT FOR FUTURE WEARING SURFACE.

IT SHALL BE THE BRIDGE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SITES FOR EXCESS EXCAVATED MATERIAL. NO PAYMENT FOR OVERHAUL WILL BE ALLOWED FOR MATERIAL HAULED TO THESE SITES.

THE LUMP SUM BID FOR "REMOVALS, AS PER PLAN" SHALL INCLUDE ALL COSTS ASSOCIATED WITH REMOVING THE BRIDGE DECK, CURBS, BARRIER RAILS, AND THE ABUTMENT DIAPHRAGMS, REMOVAL OF SCHEDULED ITEMS SHALL BE IN ACCORDANCE WITH SECTION 2401 OF THE SPECIFICATIONS. ANY DAMAGE TO ANY STEEL OR CONCRETE NOT TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND REPAIRED AT NO EXTRA COST TO THE STATE.

MINIMUM CLEAR DISTANCE FROM THE FACE OF CONCRETE TO NEAR REINFORCING BAR IS TO BE 2" 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 IO DEGREES FROM VERTICAL.

> TRAFFIC CONTROL PLAN NOTE: THE ROADWAY WILL BE CLOSED TO THRU TRAFFIC. REFER TO THE TRAFFIC CONTROL PLAN SHOWN ELSEWHERE IN THESE PLANS.

THESE BRIDGE PLANS LABEL ALL REINFORCING STEEL WITH ENGLISH NOTATION (5al IS & INCH DIAMETER BAR). ENGLISH REINFORCING STEEL RECEIVED IN THE FIELD MAY DISPLAY THE FOLLOWING "BAR DESIGNATION". THE "BAR DESIGNATION" IS THE STAMPED IMPRESSION ON THE REINFORCING BARS. AND IS EQUIVALENT TO THE BAR DIAMETER IN MILLIMETERS.

ENGLISH SIZE	3	4	5	6	7	8	9	10	П
BAR DESIGNATION	10	13	16	19	22	25	29	32	36

ALL REINFORCING BARS AND BARS NOTED AS DOWELS SUPPLIED FOR THIS STRUCTURE SHALL BE DEFORMED REINFORCEMENT UNLESS. OTHERWISE NOTED OR SHOWN.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING STABILITY OF PRESTRESSED CONCRETE BEAMS DURING CONSTRUCTION UP THROUGH THE CONCRETE BRIDGE DECK REACHING ITS FULL 28-DAY STRENGTH. THE CONTRACTOR SHALL PROVIDE SUFFICIENT TEMPORARY ANCHOR BRACING AT BEAM ENDS AND TEMPORARY INTERMEDIATE BRACING AS NEEDED TO ENSURE PRESTRESSED BEAM STABILITY. PARTIALLY OR FULLY INSTALLED PERMANENT BRACING AS SHOWN IN THESE OR EXISTING DESIGN PLANS SHALL NOT BE ASSUMED SUFFICIENT TO BRACE PRESTRESSED BEAMS DURING CONSTRUCTION. TEMPORARY BRACING SHALL NOT BE WELDED TO PRESTRESSED BEAM STIRRUPS

THE SEMI-INTEGRAL ABUTMENT AS SHOWN SHALL BE CONSTRUCTED USING STRUCTURAL CONCRETE CLASS C. PROMPTLY AFTER THE CONCRETE HAS BEEN PLACED AND VIBRATED AS PROVIDED IN ARTICLES 2403.03, C, AND 2403.03, D, OF STANDARD SPECIFICATIONS, IT SHALL BE HAND FINISHED TO PROVIDE A SMOOTH SURFACE WITH THE PROPER CROWN. THE CONTRACTOR MAY ELECT TO USE FORMWORK WHICH IS MARKED OR TRIMMED TO THE CORRECT ELEVATION AND CROWN TO PROVIDE THE LIMITS FOR THE HAND FINISHING.

IN ADDITION TO THE REQUIREMENTS OF ARTICLE 3413.03, G, OF THE STANDARD SPECIFICATIONS, BOTH EXPOSED ABUTMENT BRIDGE SEATS AND WASH SURFACES SHALL HAVE AN APPLICATION OF CONCRETE SEALER IN ACCORDANCE WITH ARTICLE 2403.03, P.3, OF THE STANDARD SPECIFICATIONS.

ABUTMENT BEARINGS (SOLE PLATES AND MASONRY PLATES) ARE TO BE CLEANED AND PAINTED. CLEANING BY VACUUM BLASTING OR BY A NON-BLASTING METHOD IS REQUIRED. SURFACE TO BE PAINTED SHALL BE PREPARED IN ACCORDANCE WITH STEEL STRUCTURES PAINTING COUNCIL (SSPC) SP3. SURFACES OF THE ABUTMENT BEARINGS ARE TO BE GIVEN ONE COAT OF BOTH A RUST INHIBITOR TYPE PRIMER AND FINAL COAT AS APPROVED BY THE ENGINEER. THE COLOR OF THE DRY PAINT SHOULD APPROXIMATE THE COLOR OF CONCRETE. THIS WORK SHALL BE MEASURED AND PAID FOR AT THE CONTRACT UNIT PRICE PER LUMP SUM FOR THE BID ITEM, "PAINTING OF STRUCTURAL STEEL".

CONTAINMENT AND DISPOSAL OF WASTE SHALL BE IN ACCORDANCE WITH SECTION 2508, OF THE STANDARD SPECIFICATIONS. ALL COSTS ASSOCIATED WITH HAULING AND DEPOSITING OF WASTE AT THE DESIGNATED SITE/FACILITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND INCLUDED IN THE CONTRACT PRICE BID FOR THE "CONTAINMENT" ITEM.

A SCRAPE SAMPLE WAS TAKEN FROM AN AREA OF THIS BRIDGE TO GET AN INDICATION OF THE EXISTENCE OF AND LEVEL OF TOTAL LEAD AND TOTAL CHROMIUM. ANALYSIS OF TOTAL LEAD ON THIS SAMPLE WAS 670 PARTS PER MILLION (PPM). ANALYSIS OF TOTAL CHROMIUM ON THIS SAMPLE WAS 480 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 IOWA DOT'S TESTING AND ANALYSIS FOR ANY PURPOSE OTHER THAN AS AN INDICATION OF THE EXISTENCE OF THESE TWO TOXIC CONSTITUENTS.

DECK REMOVAL NOTES:

THE BRIDGE CONTRACTOR IS TO USE EXTREME CARE WHEN REMOVING THE DECK CONCRETE AT THE GIRDER LOCATIONS TO AVOID DAMAGING THE TOP FLANGE AND 1 INCH DIA, HOOP BARS OF THE BEAM, PRIOR TO COMMENCING ANY DECK REMOVAL WORK, THE CONTRACTOR SHALL SUBMIT A DEMOLITION PLAN TO THE ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE START DATE FOR DECK REMOVAL WORK IN ORDER TO DEMONSTRATE THE REMOVAL PROCEDURE ON A SMALL PORTION OF THE DECK WHILE THE INSPECTOR IS PRESENT, DAMAGE MAY REQUIRE THE CONTRACTOR TO MODIFY THE REMOVAL PROCESS PRIOR TO APPROVAL TO PROCEED.

ONCE THE DECK CONCRETE OVER THE BEAM IS REMOVED, ALL REMAINING DEBRIS SHALL BE CLEANED FROM THE BEAMS TO PROVIDE A SUITABLE BOND TO THE CONCRETE DECK.

THE EXISTING 2 INCH DIA. HOOP BARS ARE AN INTEGRAL PART OF THE EXISTING BEAM, ALL DAMAGE SUSTAINED TO THE TOP FLANGE AND/OR INCH DIA. HOOP BARS SHALL BE IDENTIFIED AND REPAIRED.

IF ONE OR MORE OF THE EXISTING BEAMS OR HOOP BARS ARE DAMAGED DURING REMOVALS, THE CONTRACTOR SHALL REPAIR OR REPLACE THE DAMAGED BEAM OR BEAMS. ADJACENT BEARINGS SHALL ALSO BE REPLACED. THE ENGINEER WILL DETERMINE WHAT REPAIRS AND/OR REPLACEMENTS ARE REQUIRED.

ALL MATERIAL, EQUIPMENT, AND LABOR ASSOCIATED WITH REMOVAL OF THE DECK AND REPAIR OF ANY DAMAGE OR BEAM AND BEARING REPLACEMENT SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "REMOVALS. AS PER PLAN".

DE	ESIGN HISTORY AT THIS SITE (INCLUDES THIS DESIGN)
DES.NO.	TYPE OF WORK
158	ORIGINAL DESIGN
186	BARRIER RAIL RETROFIT
288	BEAM REPLACEMENT
393	BRIDGE DECK OVERLAY
1015	BARRIER RAIL END REPLACEMENT
123	BRIDGE DECK REPLACEMENT

BRIDGE DECK DIMENSIONS TABLE

N0.	ITEM	UNIT	QUANTITY
I	DECK LENGTH	L.F.	218.3
2	DECK WIDTH	L.F.	33.2
3	DECK AREA	S.F.	7248

I. DECK LENGTH IS MEASURED FROM FACE-TO-FACE OF PAVING

NOTCHES ALONG THE CENTERLINE OF THE ROADWAY. 2. DECK WIDTH IS MEASURED FROM OUT-TO-OUT OF DECK

PERPENDICULAR TO THE CENTERLINE OF ROADWAY.

3. DECK AREA IS TO BE BASED ON THE FACE-TO-FACE PAVING NOTCH DISTANCE AND OUT-TO-OUT DECK DIMENSIONS.

DESIGN TEAM HNTB

11/17/2021 10:55:59 PM acook SCOTT COUNTY

1				
		SHOP	DRAWING	SUBMITTALS
C	SHOF SHOV MAY STAN	P DRAWINGS NN IN THE T BE REQUIRE NDARD SPECI	SHALL BE SUBMITT ABLE BELOW. (NOTE D IN ACCORDANCE FICATIONS.)	ED FOR THE FOLLOWING ITEMS E ADDITIONAL SHOP DRAWINGS WITH ARTICLE 1105.03 OF THE
	SUBN ACCO SPEC THE	MITTAL REQU DRDANCE WIT CIFICATIONS, IOWA DEPAR	IREMENTS FOR SHO H ARTICLE 1105.03 FOR HIGHWAY AND TMENT OF TRANSP	DP DRAWINGS SHOULD BE IN , OF THE STANDARD BRIDGE CONSTRUCTION OF ORTATION.
	SHOF NAM (P E>	P DRAWINGS ING CONVENT aren)_Coun- kample: (090	SHALL BE SUBMITT TON: ty_DesignNumber_ D)_BlackHawk_Desi	ED WITH THE FOLLOWING SubmittalDescription.pdf gn915_DeckDrains.pdf
	I	DECK DRA	INS	
	2	DECK DEM	OLITION PLAN	
	3	BEARINGS		

SPECIFICATIONS:

DESIGN: AASHTO SERIES OF 2002.

CONSTRUCTION: IOWA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, SERIES 2015, PLUS APPLICABLE GENERAL SUPPLEMENTAL SPECIFICATIONS, DEVELOPMENTAL SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS SHALL APPLY TO CONSTRUCTION WORK ON THIS PROJECT.

DEVELOPMENTAL SPECIFICATIONS FOR HIGH PERFORMANCE CONCRETE FOR STRUCTURES.

DESIGN STRESSES:

DESIGN STRESSES FOR THE FOLLOWING MATERIALS ARE IN ACCORDANCE WITH THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, SERIES OF 2002.

REINFORCING STEEL IN ACCORDANCE WITH SECTION 8. GRADE 60. CONCRETE IN ACCORDANCE WITH SECTION 8, f'c = 4.0 KSI. STRUCTURAL STEEL IN ACCORDANCE WITH SECTION IO. ASTM A709 GRADE 36 (AASHTO M270 GRADE 36)





11/17/2021 10:56:13 PM acook

pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8208005021\Bridge\BRFinal\HNTB\BRG_82080347.dgn 82080347S003 11x17_pdf.pltcfg



11/17/2021 10:56:28 PM acook

pw://projectwise.dot.int.lan:PWMain/Documents/Projects/8208005021/Bridge/BRFinal/HNTB/BRG_82080347.dgn 820803475004 11x17_pdf.pltcfg





7

11/17/2021 10:56:55 PM acook

pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8208005021\Bridge\BRFinal\HNTB\BRG_82080347.dgn 82080347S006 11x17_pdf.pltcfg



design team **HNTB**

SCOTT COUNTY PROJECT NUMBER IN

11/17/2021 10:57:08 PM acook pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8208005021\Bridge\BRFinal\HNTB\BRG_82080347.dgn 82080347S007 11x17_pdf.pltcfg

REI	NEORCING BAR LIST -	· BO	ΤН	ΔRI	S TI
BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT
6al	SLAB, LONGIT.		10	33'-8	506
5a3	SLAB AND DIAPHRAGM, LONGIT.		26	33'-8	913
5a5	DIAPHRAGM, F.F., LONGIT., END		40 16	4- ر ۱′-۱۱	32
Eal			60	E/_11	370
5g2	PAVING NOTCH, BETWEEN BEAMS, VERT.		60	8'-2	510
5g3	PAVING NOTCH, AT BEAMS, VERT.		14	4′-9	69
			-	(1.5.6.)	0.500
	REINFORCING STEEL EPOXY COATI	LU - TO	IAL	(LR2")	2,568
ΓE	PLACEMENT SUMMARY -	- BO	TH	ABL	JTS.
	LOCATION			ТОТ	AL
1.7 C`	(EACH)			3.	4
	TO	TAL (CY)	3.	4
DIAF	HRAGM CONCRETE QUANTITY, SEE DESIGN SH	HEET II			
	BENT BAR DETAILS				
 ≻					
	6 *				
- 2					
	D=2 ¹ m m				
	< <u>2'-4</u>	-	1′-9		
]	5a2	ļ	pā	3	
IONS	ARE OUT TO OUT.D=PIN DIAMETER.		5		
-					
	DESIGN FOR REPAIRS TO	4 0°44′	SKEW	1	
	215'-5 × 30-0' PRE	ETEN	SIC)NED	
	PRESTRESSED CONCRET	E BE	AM	BRI	DGE
	38'-II END SPANS	68	-9 IN	TERIOR	SPANS
	ABUIMENT AND DE	CK I	ΓĘ		>
			. L	CUEMBE	∖,∠∪∠⊺
	IOWA DEPARTMENT OF TRA	NSPORT	ατιον	1	
	DESIGN SHEET NO. 7 OF 21 FILE NO. 32	2074	DES	GN NO.	123
/N-08	0-8(347)2940E-82	SHEET	NUM	BER	8



pw://projectwise.dot.int.lan:PWMain/Documents/Projects/8208005021/Bridge/BRFinal/HNTB/BRG_82080347.dgn 820803475008 11x17_pdf.pltcfg



11/17/2021 10:57:34 PM acook

TROJECT NUMBER IN





11/17/2021 10:58:00 PM acook

FORCING BAR LIST-SUP	ERST	ΓRU	CTUF	RE		
LOCATION	SHAPE	N0.	LENGTH	WEIGHT		
DECK TRANSVERSE, TOP & BOTTOM	—	516	32'-10	25,447		
DECK LONGITUDINAL, TOP & BOTTOM		468	38'-10	18,955		
DECK LONGITUDINAL, TOP, OVER PIERS		- 111	16'-8	3,781		
PIER DIAPHRAGM, VERTICAL		18	8′-6	160		
PIER DIAPHRAGM, HAIRPIN		18	2'-1	39		
INT. DIAPHRAGM, VERTICAL		8	6'-2	51		
DIAPHRAGM, LONGIT.		8	3'-0	25		
DIAPHRAGM, LONGIT.		36	3'-10	144		
DEAK TRANSVERSE TAR AT RAM		510	<i>c</i> (7			
DECK TRANSVERSE, TOP - AT RAIL		518	6'-3	3,377		
REINFORCING STEEL - EPOXY CO	ATED -	ΤΟΤΑΙ	(LBS.)	51,979		
				·		

LOCATION	QUANTITY
DECK & ABUTMENT	33.1
DECK	43.5
DECK & DIAPHRAGM	44.2
DECK & ABUTMENT	33.1
DECK	14.3
DECK & DIAPHRAGM	15.6
DECK & DIAPHRAGM	15.6
TOTAL CONC. (CU. YDS.)	199.4

pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8208005021\Bridge\BRFinal\HNTB\BRG_82080347.dgn 82080347S011 11x17_pdf.pltcfg



DECK ELEVATION PLAN

										TOP	0F	DEC	< EL	EVAT	ION	PLAN	I					
LOCATION	€ S. ABUT. BRG.				& PIER	I BRG.								€ PIER	2 BRG.							
	$\langle - \rangle$	2	3	4	5	6	7	8	9			(12)	(3)	(14)	(15)	(16)	(î)	8	(9)	20	21	22
WEST GUTTER LINE	743.07	743.18	743.28	743.37	743.45	743.46	743.52	743.57	743.61	743.65	743.67	743.69	743.70	743.70	743.69	743.68	743.67	743.64	743.60	743.56	743.51	743.
BEAM LINE A	743.09	743.20	743.30	743.39	743.47	743.48	743.54	743.59	743.63	743.67	743.69	743.71	743.72	743.72	743.71	743.70	743.69	743.66	743.62	743.58	743.53	743.
BEAM LINE B	743.18	743.29	743.40	743.49	743.56	743.57	743.63	743.68	743.73	743.76	743.78	743.80	743.81	743.81	743.81	743.80	743.78	743.75	743.72	743.67	743.62	743.
BEAM LINE C	743.28	743.39	743.49	743.58	743.66	743.67	743.73	743.78	743.82	743.85	743.88	743.89	743.90	743.90	743.90	743.89	743.87	743.85	743.81	743.76	743.71	743.
BEAM LINE D∕ € RDWY	743.34	743.45	743.55	743.64	743.72	743.73	743.79	743.84	743.88	743.92	743.94	743.96	743.97	743.97	743.96	743.95	743.94	743.91	743.87	743.83	743.78	743.
BEAM LINE E	743.28	743.39	743.49	743.58	743.66	743.67	743.73	743.78	743.82	743.85	743.88	743.89	743.90	743.90	743.90	743.89	743.87	743.85	743.81	743.76	743.71	743.
BEAM LINE F	743.18	743.29	743.40	743.49	743.56	743.57	743.63	743.68	743.73	743.76	743.78	743.80	743.81	743.81	743.81	743.80	743.78	743.75	743.72	743.67	743.62	743.
BEAM LINE G	743.09	743.20	743.30	743.39	743.47	743.48	743.54	743.59	743.63	743.67	743.69	743.71	743.72	743.72	743.71	743.70	743.69	743.66	743.62	743.58	743.53	743.
EAST GUTTER LINE	743.07	743.18	743.28	743.37	743.45	743.46	743.52	743.57	743.61	743.65	743.67	743.69	743.70	743.70	743.69	743.68	743.67	743.64	743.60	743.56	743.51	743.



DESIGN TEAM HNTB

11/17/2021 10:58:13 PM acook

SCOTT COUNTY PROJECT NUMBER IM

pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8208005021\Bridge\BRFinal\HNTB\BRG_82080347.dgn 82080347S012 11x17_pdf.pltcfg

Image: Pier 3 BRG. Image:	
Image: Pier 3 BRG. Image:	
Image: Pier 3 Brg. Image:	
Image: Constraint of the state	
44743.37743.36743.27743.17743.06742.9346743.39743.38743.29743.19743.08742.9556743.49743.48743.39743.28743.17743.0555743.58743.57743.48743.38743.26743.1471743.64743.63743.54743.44743.33743.2055743.58743.57743.48743.38743.26743.14	
46 (43.39 (43.38 (43.29 (43.19 (43.08 (42.95) 56 743.49 743.48 743.39 743.28 743.17 743.05 55 743.58 743.57 743.48 743.38 743.26 743.14 71 743.64 743.63 743.54 743.34 743.33 743.20 55 743.58 743.57 743.48 743.38 743.20 743.20 55 743.58 743.57 743.48 743.38 743.20 743.14	
55 743.58 743.57 743.48 743.38 743.26 743.14 71 743.64 743.63 743.54 743.44 743.33 743.20 55 743.58 743.57 743.48 743.38 743.26 743.14	
71 743.64 743.63 743.54 743.44 743.33 743.20 55 743.58 743.57 743.48 743.38 743.26 743.14	
55 743.58 743.57 743.48 743.38 743.26 743.14	
56 743.49 743.48 743.39 743.28 743.17 743.05	
46 (43.39) (43.38) (43.29) (43.19) (43.08) (42.95) 44 743.37 743.36 743.27 743.17 743.06 742.93	
DESIGN FOR REPAIRS TO A O°44' SKEW	
215'-5 x 30-0' PRETENSIC	NED
PRESTRESSED CONCRETE BEAM	BRIDGE
38'-11 END SPANS 68'-9 IN	ITERIOR SPANS
DECK ELEVATIONS	
STA. 1844+16.13 D	ECEMBER, 2021
SCOTT COUNTY	
IOWA DEPARTMENT OF TRANSPORTATION	J
DESIGN SHEET NO. 12 OF 21 FILE NO. 32074 DESI	GN NO. 123
IN-080-8(347)2940E-82 SHEET NUM	3ER 13



DECK THICKNESS AT EXISTING BEAMS (T)

								DEC	< TH	ICKN	ESS	AT E	BEAM	S													
LOCATION	€ S. ABUT. BRG.				€ PIEF	R I BRG.							€ PIER	2 BRG.								€ PIER	3 BRG.				€ N. ABUT. BRG.
		2	3	4	5	6	8	9	\bigcirc		(12)		(14)	(15)	(6)	(1)	8	(9)	20	21	22	23	24	25	26	27	28
BEAM LINE A	84	8 ⁵	8 ⁵	84	8 ³ 16	8 ⁵	 8 ³ 16		84		8 ⁵		8 ½	81		8 7 16		8 ⁷		88		8 <mark>5</mark>	8 ³	84	8 ⁵	84	84
BEAM LINE B	84	84	8 ⁵	84	8 ³ 16	8 <mark>5</mark>	 8 ⁵ 16		8 ⁷ 16		8 ⁷ 16		8 1 2	8 ¹ ₂		87		87		8 16		8 <mark>5</mark>	8 ³ 16	84	84	84	84
BEAM LINE C	84	84	8 16	84	8 ³	8 ⁵	 85		8 ⁷ 16		8 ⁷ 16		8 ¦	8 ¹ ₂		87		87		8 16		8 16	8 ³	84	84	84	84
BEAM LINE D	84	84	8 ⁵	84	8 ³	8 ⁵	 8 ⁵ 16		8 ⁷ 16		8 ⁷ 16		8 ¦	8 ¹ ₂		87		87		816		8 <mark>5</mark> 16	8 ³ 16	84	84	84	84
BEAM LINE E	84	84	8 ⁵	84	8 ³	8 ⁵	 8 ⁵ 16		8 7 16		8 <mark>7</mark> 16		8 2	8 ¹ ₂		87		876		8 16		8 <mark>5</mark>	8 ³ 16	84	84	84	84
BEAM LINE F	84	84	8 ⁵	84	8 ³	8 ⁵	 8 ⁹ 16		8 15 16		9 ³		9 ¦	9 ½		82		8 16		8 ¹ ₂		9 <mark>9</mark> 16	9 ⁷	9 <mark>3</mark> 16	878	8 ⁹ 16	84
BEAM LINE G	84	8 ⁵ 16	8 16	84	8 <mark>3</mark>	8 ⁵	 858		8 5		9 ³		9 ¹ 2	91		81		84		8 ⁹ 6		9 ⁹	9 ⁷	9 16	8 15	8 ⁹ 8 16	84



DECK THICKNESS DETAIL

NOTE: THE DECK THICKNESS (T) AT BEAMS IS ESTIMATED BASED ON PROPOSED TOP OF SLAB ELEVATIONS AND ANTICIPATED BEAM CAMBER AND DEFLECTION DATA FROM EXISTING PLANS. THESE SLAB HAUNCH THICKNESS VALUES ARE ESTIMATES AND NOT GUARANTEED FOR CONSTRUCTION.

NOTE: NUIE: HAUNCH LOCATIONS ARE AT THE SAME LOCATION AS THE ENCIRCLED LETTERS NUMBERS SHOWN ON DECK ELEVATIONS SHEET.

DESIGN TEAM HNTB

SCOTT COUNTY

11/17/2021 10:58:27 PM acook pw://projectwise.dot.int.lan:PWMain/Documents/Projects/8208005021/Bridge/BRFinal/HNTB/BRG_82080347.dgn 82080347S013 11x17_pdf.pltcfg



TABLE	OF	BEAM	LINE	DECK	HAUNCH	ELEVATIONS

									TABI	_E OF	BEA	M LI	NE D	ECK H	AUNC	CH EL	EVAT	IONS										
BEAM LINE	€ S.ABUT. BEARING				€ PIER BEARI	NO.I NGS								€ PIER BEAR	NO.2 INGS								€ PIER BEAR	NO. 3 INGS				€ N.ABUT. BEARING
	LINE I	LINE 2	LINE 3	LINE 4	LINE 5	LINE 6	LINE 7	LINE 8	LINE 9	LINE IO	LINE II	LINE 12	LINE 13	LINE 14	LINE 15	LINE 16	LINE 17	LINE 18	LINE 19	LINE 20	LINE 21	LINE 22	LINE 23	LINE 24	LINE 25	LINE 26	LINE 27	LINE 28
А	742.42	742.54	742.64	742.73	742.80	742.81	742.90	742.97	743.03	743.06	743.08	743.09	743.07	743.05	743.05	743.07	743.07	743.06	743.03	742.98	742.91	742.83	742.73	742.72	742.63	742.53	742.42	742.29
В	742.52	742.63	742.74	742.83	742.90	742.91	742.99	743.06	743.12	743.16	743.18	743.18	743.17	743.14	743.14	743.16	743.16	743.15	743.12	743.07	743.00	742.92	742.82	742.81	742.73	742.63	742.51	742.38
С	742.61	742.73	742.83	742.92	742.99	743.00	743.09	743.16	743.21	743.25	743.27	743.28	743.26	743.24	743.23	743.25	743.25	743.24	743.21	743.16	743.09	743.01	742.91	742.90	742.82	742.72	742.60	742.47
D	742.67	742.79	742.89	742.98	743.05	743.06	743.15	743.22	743.28	743.32	743.34	743.34	743.33	743.30	743.30	743.31	743.32	743.30	743.27	743.22	743.16	743.07	742.98	742.97	742.88	742.78	742.67	742.54
E	742.61	742.73	742.83	742.92	742.99	743.00	743.09	743.16	743.21	743.25	743.27	743.28	743.26	743.24	743.23	743.25	743.25	743.24	743.21	743.16	743.09	743.01	742.91	742.90	742.82	742.72	742.60	742.47
F	742.52	742.63	742.74	742.83	742.90	742.91	742.99	743.06	743.12	743.16	743.18	743.18	743.17	743.14	743.14	743.16	743.16	743.15	743.12	743.07	743.00	742.92	742.82	742.81	742.73	742.63	742.51	742.38
G	742.42	742.54	742.64	742.73	742.80	742.81	742.90	742.97	743.03	743.07	743.09	743.09	743.08	743.05	743.05	743.07	743.07	743.06	743.03	742.98	742.91	742.83	742.73	742.72	742.63	742.53	742.42	742.29

									MISC	ELLAN	IEOUS	5 DAT	Α ΤΑ	BLE										
	BEAM	LINE	€ S.ABUT. BEARING				€ PIEF BEAR	R NO.I INGS								€ PIER BEAR	NO. 2 INGS							
			LINE I	LINE 2	LINE 3	LINE 4	LINE 5	LINE 6	LINE 7	LINE 8	LINE 9	LINE 10	LINE II	LINE 12	LINE 13	LINE 14	LINE 15	LINE 16	LINE 17	LINE 18	LINE 19	LINE 20	LINE 21	LINE 22
ANTICIPATED		А	0	 6	8	 6	0	0	5 16	9 16	 6	3 4	 6	9 16	5 16	0	0	5 16	5 8	13 16	7 8	13 16	5 8	5 16
DEFLECTION	В,	,C,D,E,& F	0	 6	8	 6	0	0	5 16	9 16	3 4	13 16	3 4	9 16	5 16	0	0	5 16	9 16	3 4	13 16	3 4	9 16	5 16
DUE TO DECK (IN.)		G	0	 6	8	16	0	0	5 16	5 8	13 16	7	13 16	5 8	5 16	0	0	5 16	5 8	13 16	7 8	13 16	5 8	5 16
CROSS SLOPE	Α,	B,C,E,F,& G		•				•	•			•	 8			•	•		•	•	•	•	•	
ADJUSTMENTS (IN.)		D											0											
ALLOWABLE FIELD	MAX.	ALL											2 (0.	167)										
HAUNCH (IN. & FT.)	MIN	A, B, C, E, F, & G											- 3 (-C	0.031)										
	WITN.	D											-¦ (-C	.041)										

MIS	CELL	ANEOUS D	ΑΤΑ	TABLI	E (CO	NT.)		
	BEAM	LINE	€ PIER BEAR	NO.3 INGS				€ N. ABUT. BEARING
			LINE 23	LINE 24	LINE 25	LINE 26	LINE 27	LINE 28
ANTICIPATED		А	0	0	 6	8	 6	0
DEFLECTION	В,	C, D, E, & F	0	0	 6	8	 6	0
DUE TO DECK (IN.)		G	0	0	 6	8	 6	0
CROSS SLOPE	Α,Ε	3, C, E, F, & G				8		
ADJUSTMENTS (IN.)		D				0		
ALLOWABLE FIELD	MAX.	ALL			2 (0.167)		
HAUNCH (IN. & FT.)	MIN	A, B, C, E, F, & G			-3 (-0.031)		
	WITIN.	D			-¦ (-0.041)		



NOTE: BRIDGE SEAT ELEVATIONS ARE SET BASED ON THEORETICAL CAMBER AND BEAM DEFLECTIONS. THESE BRIDGE SEATS WILL PROVIDE A THEORETICAL BEAM HAUNCH WITHIN DESIGN PARAMETERS. FIELD HAUNCHES ARE DETERMINED USING SURVEYED TOP OF BEAM ELEVATIONS AND "BEAM LINE HAUNCH ELEVATION" DATA. ALLOWABLE MAXIMUM AND MINIMUM "FIELD HAUNCH" VALUES ARE GIVEN IN INCHES AND DECIMALS OF FEET IN THE

DIMENSIONS AT THE EDGES OF THE TOP FLANGE.

"MISCELLANEOUS DATA" TABLE. "CROSS SLOPE ADJUSTMENT" VALUES WILL

AID THE CONTRACTOR IN DETERMINING ACTUAL FORMED HAUNCH

NOTE: HAUNCH LOCATIONS ARE AT THE SAME LOCATION AS THE ENCIRCLED LETTERS AND NUMBERS SHOWN ON DECK ELEVATIONS SHEET.

BENCH MARK NO .:

NOTE I:

TO CALCULATE FIELD HAUNCH REQUIRED AT EACH LOCATION, SURVEY THE BEAM TOPS CONSISTENT WITH THE SPACINGS SHOWN ON THE "TOP OF DECK ELEVATIONS LAYOUT". SUBTRACT THE SURVEYED BEAM SHOT FROM THE "BEAM LINE HAUNCH ELEVATION". THIS VALUE WILL BE THE HAUNCH NEEDED (SEE "FIELD HAUNCH" IN HAUNCH DETAIL). THE "BEAM LINE HAUNCH ELEVATION" INCLUDES ADJUSTMENTS FOR DECK THICKNESSES AND ANTICIPATED DEFLECTIONS. NO ADDITIONAL CALCULATIONS ARE REQUIRED. IF THE FIELD HAUNCH EXCEEDS THE MAXIMUMS AND MINIMUMS SHOWN IN INCHES AND DECIMALS OF FEET IN THE MISCELLANEOUS DATA TABLE, ADJUSTMENTS TO THE GRADE OR ADDITIONAL HAUNCH REINFORCEMENT WILL BE REQUIRED.

5									
DES	IGN TEA	M HNTB		DECK HAUNCH DATA DETAILS	STANDARD SHEET 1066			SCOTT COUNTY	PROJECT NUMBER IN
11/17	7/2021	10 : 58:40 PM	acook	pw://projectwise.dot.int.lan:PWMain/Documents/Pr	rojects\8208005021\Bridge	e\BRFinal\HNTB\BRG_82080347.dgn	82080347S014	11x17_pdf.pltcfg	





P(ЭХҮ	COATED REINF.STEEL	`	TWC	RA	LS
DΝ	BAR	LOCATION	SHAPE	NO.	LENGTH	WEIGHT
	5cl	BARRIER RAIL, VERTICAL	N	410	5'-11	2,530
	5dI	BARRIER RAIL, LONGITUDINAL		108	35′-10	4,036
		<u>EPOXY</u>	STEEL	TOTAL	(LBS.)	6,566
Δ		ESS STEEL REINE STEE	- 17	ΤW	0 RA	11 5
л ЭМ	BAR		SHAPF	NO.		WEIGHT
	5c2	BARRIER RAIL, VERTICAL		410	6'-0	2,566
		ςταινί εςς	STFFI	TOTA	(LBS.)	2,566
					,,	_,000
		BENI BAR DETA	AILS)		
	82 					
	18 is					
Ť	-0		•			
)=43		7-4			
5-7			-4			
	دن ح					
•	_		98			
	501		T			
-						
DI	MENSI	ONS ARE OUT TO OUT.				
ΡII	N DIA		<u> </u>	•• • •		
	<u>C0</u>	NCRETE PLACEMENT	SUN	1MA	<u>RY</u>	
		SECTION			TO	TAL
H I H I	BARRI	ER RAIL - 204'-3 @ 0.1052 CU. YD. PER	FT.			21.5
		E. MALE EVE D'E VEVE DE DE LEN				
					_	
<u> </u>				J. YD.)		43.0
:(NC	REIE BARRIER RAIL	QU	ANT		5
DC	TE 2.			UNIT	QUA	NTITY
κĿ	IE BA	KKIEK KAILING		L.F	•	136.5
	Γ	DESIGN FOR REPAIRS TO	A 0°44	4' SKEV	V	
		215′-5 × 30-0′ PR	ETE	1510	ONED	
		PRESTRESSED CONCRET	ΈΒ	EAM	BR	IDGE
		38'-II END SPANS		8'-9 7 		SPANS
		DARRIER RAIL STA. 1844+16.13	ULI	AIL	_ ン DECEMBE	R, 2021
		SCOTT COU	ТИГ.	Y		
		IOWA DEPARTMENT OF TR	ANSPOR	τατιο	N	107
		DESIGN SHEET NO. <u>15</u> OF <u>21</u> FILE NO. <u>3</u>	52074	DES	IGN NO	123
۸N-	-080-	5(347)294OE-82	SHEE	I NUM	IBER	16



11/17/2021 10:59:05 PM acook

pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8208005021\Bridge\BRFinal\HNTB\BRG_82080347.dgn 82080347S016 11×17_pdf.pltcfg

1

XY COATED REINF.STEE	FOl	JR E	ND SE	CT.
LOCATION	SHAPE	N0.	LENGTH	WEIGHT
IL, VERTICAL	Π	48	5′-6	397
IL, VERTICAL	٢	16	2'-10	68
IL, HORIZONTAL		24	6′-8	240
IL, HORIZONTAL		28	6′-9	284
IL, HORIZONTAL		4	3′-9	16
EDUXY DE	INE TOT	NI WEIG	HT (IBS)	1.005
	INF. 1017	AL WEIG	HI (LD3./	1,005
		םו ור		FOT
ILESS SIEEL REINF. SIE				
LOCATION	SHAPE	N0.	LENGTH	WEIGHT
IL, VERTICAL	Ĺ	8	3′-6	42
IL, VERTICAL	<u> </u>	48	6′-10	493
IL, VERTICAL	<u> </u>	24	VARIES	83
IL, VERTICAL			3'-6	42
STAINLESS ST	EEL IUT	AL WEIG	ні (LBS.)	66U
	-			
CONCRETE PLACEMEN	<u> </u> S	UMM	ARY	
SECTION			TC	TAL
RAIL, FOUR END SECTIONS @ 0.65 CU. YD.	EA.			2.6
	тот	AL (CY)		2.6
BENT BAR DE	TAIL	S		
	7			
│ │	+ 104	1	BAR	"X"
) \uparrow () \uparrow $n=41$		\ ~\	5c5	0'-6¦
			<u> </u>	0'-8¦
	\checkmark		5c7	0'-104
			5c8	'-0 <mark> </mark>
			5c9	1'-2
1'-0			5c10	1'-4
004		<	\mathbf{x}	
		N.	<u>∕</u> \	
		0,0		
$- \bigvee_{n=4} \uparrow \uparrow \uparrow \bigvee_{n=4} \uparrow \downarrow \bigvee_{n=4} \uparrow \downarrow \bigvee_{n=4} \uparrow \downarrow \bigvee_{n=4} \uparrow \downarrow \bigvee_{n=4} \downarrow \bigvee_{n=4} \downarrow \bigvee_{n=4} \bigvee_$	- 1	اس ^س م	33 ×	85
	-42		\mathbf{X}	×_1
2'			- Vo	-↓
	6c3			<u>+</u>
		_	∢ ((
6c2	1'-0	•	505-5	<u></u>
			569-9	
NOTE: ALL DIMENSIONS AR D = PIN DIAME	E OUT T TER.	0 OUT.		
DESIGN FOR REPAIL	RS TO A	0°44′ s	SKEW	
215'-5 x 30-0	' PRF	TFN	SIONE)
TRESIRESSED CUNU	REIE			
BADDIED DALL FNF		- _{'80} ירודי	A ULL	A JPANS
	, SEL			AILS
	COLL	NTV	DECEME	2021
	CUU	ΙΝΙΤ		
	OF TRAN	ISPORTA		103
UESIGN SHEET NU. 16 OF 21 FILE	NU. <u>32</u>	014	DESIGN NO.	
MN-080-8(347)2940E-82		SHEET	NUMBER	17



TYPICAL AT EACH END OF THE BEAM

LIFTING LOOP DETAIL

ALTERNATE TYPES MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER. LIFTING LOOPS ARE TO BE STRUCTURAL GRADE.



COIL TIE DETAIL

NUMBER AND EXACT LOCATION OF COIL TIES TO BE AS DETAILED ON DESIGN SHEET 18.

AA461 BARS TO BE EPOXY COATED.

****** WHERE DEFLECTING STRANDS INTERFERE WITH PLACEMENT, SOME IN-PLACE BENDING MAY BE NECESSARY.



B BEAM NO. OF F 3 CAMBER (in.) TOTAL INITI/ PRESTRESS KIPS HOLD DOWN FORCE-KIPS ĕ STRANDS € STRAIGHT DEFLECTED TRAND IA. (înci ΛT AFTER RELEASE LOSSES o D

1.69

2.98

 \odot deflections at Mid-span due to weight of slab and diaphragm. THE DEFLECTIONS SHOWN ARE FOR A SLAB WEIGHT OF 757 #/FT.(8" SLAB AND 7'-6 BEAM SPACING) AND ONE CONCRETE DIAPHRAGM (2270 #) OR ONE STEEL DIAPHRAGM (285 #) AT & OF SPAN. FOR DIFFERENT SLAB AND DIAPHRAGM WEIGHTS, DEFLECTIONS WILL BE DIRECTLY PROPORTIONAL.

3 723 11.6

② DEFLECTIONS DUE TO THE COMBINED EFFECT OF CREEP DUE TO WEIGHT OF SLAB AND SHRINKAGE OF SLAB.

TOTAL BEAM DEFLECTIONS AT € OF SPAN, △, DUE TO WEIGHT OF SLAB AND DIAPHRAGMS FOR DETAILING PURPOSE: (A) $\Delta_{D} = \Delta_{I} + \Delta_{T}$ FOR SIMPLE SPAN.

(B) $\Delta_D = \Delta_1 + \frac{3}{4} \Delta_T$ FOR END SPANS OF CONTINUOUS BRIDGE. (C) $\Delta_{\rm D} = \Delta_{\rm I} + \frac{1}{2} \Delta_{\rm T}$ FOR INTERIOR SPANS OF CONTINUOUS BRIDGE.

3 TOTAL INITIAL PRESTRESS IS BASED ON 72.6% f's, f's = 270 ksi AND As = 0.217 sq.in.

* MINIMUM CONCRETE f'c (AT 28 DAYS) SHALL BE 7,000 psi. MINIMUM f'ci AT RELEASE SHALL BE 6,000 psi.

SPECIFICATIONS:

BEAM (L)

OVERALL

67'-6 68'-6 0.60 14

AN LENGTH - BEARING

ىلى د

BEAM

*****B67

CONSTRUCTION: STANDARD SPECIFICATIONS OF THE IOWA DEPARTMENT OF TRANSPORTATION, CURRENT SERIES, WITH CURRENT APPLICABLE SPECIAL PROVISIONS AND SUPPLE-MENTAL SPECIFICATIONS. DESIGN: A.A.S.H.T.O. LRFD, SERIES OF 2007, WITH MINOR MODIFICATIONS.

DESIGN STRESSES:

DESIGN STRESSES FOR THE FOLLOWING MATERIALS ARE TO BE IN ACCORDANCE WITH A.A.S.H.T.O. LRFD SPECIFICATIONS FOR HIGHWAY BRIDGES, SERIES OF 2007: REINFORCING STEEL IN ACCORDANCE WITH SECTION 5. GRADE 60. CONCRETE IN ACCORDANCE WITH SECTION 5, f'c = 5000 psi (EXCEPT AS NOTED) PRESTRESSING STEEL IN ACCORDANCE WITH SECTION 5, f's = 270,000 psi.

11/17/2021 10:59:18 PM acook

pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8208005021\Bridge\BRFinal\HNTB\BRG_82080347.dgn 82080347S017 11x17_pdf.pltcfg

STANDARD SHEET 4610 (MODIFIED)

SCOTT COUNTY

D	ΔΤΑ										
DE	FLECTIO)N (in.)	Δ _D	PERI	AISSIB	LE SP#	ACING	WEI	GHT	E	CING (Ib)
IMMED (ELAST	ιατε① ιc) δ _ι	TIM (PLAST	ε ② IC) Δ _T			HL LOAI	93 DING	(10)	13)	NCRET (C. Y.)	INFOR TEEL -
CONC. DIAPH.	STEEL DIAPH.	CONC. DIAPH.	STEEL DIAPH.			CONC. DIAPH.	STEEL DIAPH.			COL	RE S
1.16	1.09	0.29	0.27			7′-6	7′-6	13.6		6.74	778

BEAM NOTES:

THESE BEAMS ARE DESIGNED FOR AASHTO LIVE LOADS AS INDICATED IN ABOVE TABLE WITH AN ALLOWANCE OF 20 16.

PER SQUARE FOOT OF ROADWAY FOR FUTURE WEARING SURFACE. ALL PPC BEAMS SHALL USE HIGH PERFORMANCE CONCRETE (HPC) IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. HOLD DOWN POINTS FOR DEFLECTED STRANDS MAY BE MOVED TOWARD ENDS OF BEAM A DISTANCE OF 0.05 L MAXIMUM

AT PRODUCER'S OPTION. ALL PRESTRESSING STRANDS SHALL CONFORM TO ASTM A416

GRADE 270 LOW RELAXATION STRANDS.

TOPS OF BEAMS ARE TO BE STRUCK OFF LEVEL AND FINISHED AS PER MATERIALS IM570.

BEARINGS SHALL BE AS DETAILED ON OTHER DESIGN SHEETS. BEAMS TO BE USED IN BRIDGES MADE CONTINUOUS BY THE POURED IN PLACE FLOOR, ARE TO BE AT LEAST 28 DAYS OLD BEFORE THE FLOOR IS PLACED UNLESS A SHORTER CURING TIME IS APPROVED BY THE BRIDGE ENGINEER.

THE PORTIONS OF THE PRESTRESS BEAMS THAT ARE TO BE EMBEDDED IN THE ABUTMENT AND PIER DIAPHRAGMS SHALL BE ROUGHENED FOR A DISTANCE OF 10" FROM THE BEAM END BY SANDBLASTING OR OTHER APPROVED METHODS TO PROVIDE SUITABLE BOND BETWEEN THE BEAM AND THE DIAPHRAGM IN ACCORDANCE WITH ARTICLE 2403.03, I, OF THE STANDARD SPECIFICATIONS.

ALL BEAMS ARE TO BE INCREASED IN LENGTH TO COMPENSATE FOR ELASTIC SHORTENING, CREEP AND SHRINKAGE.

SOLE PLATE IS TO BE SET IN FORMS WHEN BEAM IS CAST AND FORMED OUT BELOW TO EXCLUDE CONCRETE AS DETAILED ON DESIGN SHEET II.

0.6" DIAMETER STRANDS STRESSED TO NOT MORE THAN 5,000 LBS. EACH MAY BE USED IN LIEU OF THE a BARS WHICH RUN THE FULL LENGTH OF THE BEAM IN THE TOP FLANGE.







ABUTMENT BACKFILL PROCESS:

THE BASE OF THE EXCAVATION SUBGRADE BEHIND THE ABUTMENT IS TO BE GRADED WITH A 4% SLOPE AWAY FROM THE ABUTMENT FOOTING AND A 2% CROSS SLOPE IN THE DIRECTION OF THE SUBDRAIN OUTLET. THIS EXCAVATION SHAPING IS TO BE DONE PRIOR TO BEGINNING INSTALLATION OF THE GEOTEXTILE AND BACKFILL MATERIAL.

AFTER THE SUBGRADE HAS BEEN SHAPED, THE GEOTEXTILE FABRIC SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS SHOWN. THE FABRIC IS INTENDED TO BE INSTALLED IN THE BASE OF THE EXCAVATION AND EXTENDED VERTICALLY UP THE ABUTMENT BACKWALL, ABUTMENT WING WALLS, AND EXCAVATION FACE TO A HEIGHT THAT WILL BE APPROXIMATELY I TO 2 FOOT HIGHER THAN THE HEIGHT OF THE POROUS BACKFILL PLACEMENT AS SHOWN IN THE "BACKFILL DETAILS" ON THIS SHEET. THE STRIPS OF THE FABRIC PLACED SHALL OVERLAP APPROXIMATELY I FOOT AND SHALL BE PINNED IN PLACE. THE FABRIC SHALL BE ATTACHED TO THE ABUTMENT BY USING LATH FOLDED IN THE FABRIC AND SECURED TO THE CONCRETE WITH SHALLOW CONCRETE NAILS. THE FABRIC PLACED AGAINST THE EXCAVATION FACE SHALL BE PINNED.

WHEN THE FABRIC IS IN PLACE, THE SUBDRAIN SHALL BE INSTALLED DIRECTLY ON THE FABRIC AT THE TOE OF THE REAR EXCAVATION SLOPE. A SLOT WILL NEED TO BE CUT IN THE FABRIC AT THE POINT WHERE THE SUBDRAIN EXITS THE FABRIC NEAR THE END OF THE ABUTMENT WING WALL.

POROUS BACKFILL IS THEN PLACED AND LEVELED, NO COMPACTION IS REQUIRED.

NO FLOODABLE BACKFILL IS REQUIRED. BACKFILL FLOODING IS REQUIRED AFTER POROUS BACKFILL LAYER IS COMPLETE IN ORDER TO TEST THE SUBDRAIN.

START BACKFILL FLOODING AT THE HIGH POINT OF THE SUBDRAIN AND PROGRESS TO THE LOW POINT WHERE THE SUBDRAIN EXITS THE FABRIC.

WATER REQUIRED FOR FLOODING, SUBDRAINS, POUROUS BACKFILL, AND GEOTEXTILE FABRIC FURNISHED AT THE BRIDGE ABUTMENTS WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

THE COST OF WATER REQUIRED FOR FLOODING, SUBDRAINS, POROUS BACKFILL, AND GEOTEXTILE FABRIC FURNISHED AT THE BRIDGE ABUTMENTS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR "EXCAVATION, CLASS 20".



NOTE: SEE SUBDRAIN DETAILS SHEET FOR DETAILS NOT SHOWN ON THIS SHEET WHICH ARE PERTINENT TO THIS STRUCTURE.

0

풍

STA

Ξ

z,

LOCATED (WAS "RK")

S = 2

AND TO "B

TANDARD 7

WAS

APPROACH P

DAT BRI

CAL

4 Č

-60

SED

STANDARD SHEET 1007D (MODIFIED)

NOTE:

SUBDRAIN SHALL SLOPE DOWNWARD 2% FROM € N.DIVISION STREET.

THE GEOTEXTILE FABRIC SHALL BE IN ACCORDANCE WITH ARTICLE 4196.01, B, 6 OF THE STANDARD SPECIFICATIONS. IF THE ENGINEERING FABRIC IS LAPPED THE LAPS SHALL BE A MINIMUM OF ONE FOOT IN LENGTH, SHINGLE FASHION WITH UP SLOPE LAP PIECE ON TOP AND STAPLED FOR CONTINUITY.



11/17/2021

FOOTI

11:00:00 PM acook pw:\\projectwise.dot.int.lan:PWMain\Documents\Projects\8208005021\Bridge\BRFinal\HNTB\BRG_82080347.dgn 82080347S020 11x17_pdf.pltcfg



A Sheets	
	Title Sheets
A.1	Title Sheet
B Sheets	Typical Cross Sections and Details
B.1	Typical Cross Sections and Details
C Sheets Creation	Quantities and General Information
C.1 - C.3	Estimated Roadway Quantities
C.1 - C.3	Estimate Reference Information
C.4	Project Description and General Information
C.4	Index of Tabulations
C.4	Standard Road Plans
C.4	General Notes
C.5 - C.7	Tabulations
D Sheets	Mainline Plan and Profile Sheets
* D.1	Plan and Profile Legend and Symbol Information Sheet
* D.2	Division St. Plan and Profile Sheet
* D.3	RM-1827(689)9D-82 Plan and Profile Sheet
G Sheets	Survey Sheets
G.1 - G.2	Reference Ties and Bench Marks
G.3	Alignment Coordinates
J Sheets	Traffic Control and Staging Sheets
J.1	Traffic Control Plan
J.1	Staging Notes
J.1	Coordinated Operations
J.1	511 Travel Restrictions
J.1	Traffic Control Closure Table
* J.2 - J.5	I-80 Detour Detail Sheets
* J.6	Modified TC-454
* J.7 - J.8	RM-1827(689)9D-82 Traffic Control Plan and Detour Detail Sheet
U Sheets	Special Details and Modified Standards
* U.1	Modified BR-211



FILE NO. 32074	ENGLISH	DESIGN TEAM	HNTB	
----------------	---------	-------------	------	--

SCOTT COUNTY PROJECT NUMBER 3:29:13 PM 11/17/2021 bcharipar pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Overland Park Projects\73551 Iowa DOT Task Order 7\IMN-080-8(347)294--0E-82\Base\SHT_82080347Z11.dgn

ROADWAY DESIGN

	Stephanie Hemberger	I he by r am the	reby certify that this engineer me or under my direct person a duly licensed Professional E State of Iowa.	ing document was prepared al supervision and that I ngineer under the laws of <u>11/19/2021</u> Date
	/OWA white the second	Ste Print My	ephanie A. Hembe ted or Typed Name license renewal date is Dece	mber 31, 2022
	Pages or sheets covered	by ti	his seal: <u>A.1, B.1, C.1 - C.7, D.</u> U.1	1 - D.2, G.1 - G.3, J.1 - J.6,
IMN-080-8(347	7)2940E-82		SHEET NUMBER A.1	



3:57:28 PM 11/10/2021 pw://pw-int.hntb.org:PWCentralDiv/Documents/Overland Park Projects/73551 Iowa DOT Task Order 7/IMN-080-8(347)294--0E-82/Base/SHT_82080347Z11.dgn akorff

7156 Modified

9" HMA Paved Shoulder at guardrail. 8" PCC may be substituted with the

Match mainline pavement joint spacing. When mainline pavement is 8" or greater in thickness, place additional transverse 'CD' joints in shoulder at mid-panel of the mainline pavement. Place longitudinal 'CD' joint at P/2 from edge of mainline pavement when P is greater than 10' wide. Terminate longitudinal joint at transverse joint less than 10' in length.

Compaction of HMA is required to face of guardrail post. Hand compaction will be allowed under guardrail.

Refer to Tabulation 112-9 for shoulder quantities.

(1) PCC option only: When guardrail posts are installed prior to construction of PCC paved shoulder, fasten form board to the face of guardrail posts for

(2) Continue paved shoulder 20 feet beyond the center of the first post.

3 Shoulder may be notched for first 2 posts or post sleeves may be installed through pavement. Do not drive posts through pavement.

(4) 'KT-2' joint (per PV-101) for PCC shoulder. 'B' joint (per PV-101) for HMA shoulder.

Section C-C Roll down at granular shoulder or earth.

PAVED SHOULDER AT GUARDRAIL (GRANULAR SHOULDER ADJACENT TO MAINLINE)

40E-82	SHEET NUMBER $B.1$	

ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

				Quantities	
no.	Item Code	Item	Unit	Estimated	Estimate Refe
				Roadway Items	
1	2102-0425070	SPECIAL BACKFILL	TON	75.1	This item is for subgrade treatment to be placed under paved should Reclaimed asphalt pavement (RAP) and reclaimed HMA shall not be Refer to Detail 7156 Modified on B Sheets, and Tab. 112-9 for detail
2	2102-2625000	EMBANKMENT-IN-PLACE	СҮ	14.7	This item is for construction of grading for guardrail installations. Pro Specifications. Allow for the placement of topsoil. Cross sections are Refer to Tab. 107-23 for details.
3	2102-2713090	EXCAVATION, CLASS 13, WASTE	СҮ	51.1	This item is for the removal of existing granular shoulder and subbas hauled offsite and it is the Contractor's responsibility to provide sides Refer to Tab. 112-9 for material to be removed.
4	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	СҮ	51.1	 This item is for stripping and salvaging 6 inches of topsoil from gradi in-place. After embankment-in-place, topsoil shall be spread to a 4 ir finished grade. No cross sections are provided with the contract documents. Excess topsoil shall be used for Earth Shoulder Construction. Refer to Tabs. 103-10 and 107-23 for details.
5	2122-5500090	PAVED SHOULDER, HOT MIX ASPHALT MIXTURE, 9 IN.	SY	216	This item is for paved shoulder at guardrail. Use PG-28S binder at 6 Refer to Detail 7156 Modified on B Sheets, and Tab. 112-9 for detail
6	2123-7450000	SHOULDER CONSTRUCTION, EARTH	STA	3.26	This item is for shoulder construction behind guardrail. Refer to Tab. 112-9 for details.
7	2301-0690204	BRIDGE APPROACH, BR-204	SY	516.2	Refer to Tab. 112-6, D Sheet and U Sheets for details.
8	2412-0000100	LONGITUDINAL GROOVING IN CONCRETE	SY	1,130.6	Refer to Tab. 100-28 for details.

Design Team : County Name :Scott Project Number:IMN-080-8(347)294--0E-82 11/12/2021 10:00 AM

erence Notes

ders at guardrail.

e used for the special backfill.

ils.

ovide borrow material according to Section 2102 of the Standard e not provided with the contract documents.

use material to place new paved shoulder. Waste material shall be es for waste material. No payment for overhaul will be allowed.

ling for guardrail installations prior to placement of embankmentinch minimum thickness, after shrinkage, over disturbed areas to

5%.

ils.

SHEET C.1

				Quantities	
Item	Item Code	Item	Unit	Estimated	Estimate Refe
110.				Roadway Items	
9	2505-4008120	REMOVAL OF STEEL BEAM GUARDRAIL	LF	500	Refer to Tab. 110-7A for details.
10	2505-4008300	STEEL BEAM GUARDRAIL	LF	175	Eliminate BTS Post #15 per Note 3, Standard Road Plan BA-201. Refer to Tab. 108-8A for details.
11	2505-4008410	STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION, BA-201	EACH	4	Eliminate BTS Post #15 per Note 3, Standard Road Plan BA-201. Refer to Tab. 108-8A for details.
12	2505-4021010	STEEL BEAM GUARDRAIL END ANCHOR, BOLTED	EACH	4	
13	2505-4021720	STEEL BEAM GUARDRAIL TANGENT END TERMINAL, BA-205	EACH	4	
14	2510-6745850	REMOVAL OF PAVEMENT	SY	720.1	Refer to Tab. 110-1 for details.
15	2526-8285000	CONSTRUCTION SURVEY	LS	1	This item is for any construction survey need, as determined by the The Engineer will not establish or provide any control monuments or elevations utilizing lines, grades, points, dimensions, and distances; documents.
16	2527-9263109	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	STA	14.33	Refer to Tab. 108-22 for details.
17	2528-8445110	TRAFFIC CONTROL	LS	1	Refer to Traffic Control Plan on Sheet J.1 for details. Detour for Division St. to be provided by City of Davenport RM-1837
18	2528-8445113	FLAGGERS	EACH	8	See Proposal.
19	2528-9290050	PORTABLE DYNAMIC MESSAGE SIGN (PDMS)	CDAY	84	See Proposal.

erence Notes

Contractor.

or benchmarks. The Contractor shall provide survey locations and ; relating between existing field information and the contract

7(689)--9D-82 project.

Item no.	Item Code	Item	Unit	Quantities Estimated Roadway Items	Estimate Refe
20	2602-0000320	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 20 IN. DIA.	LF	950	Refer to Tab. 100-19. The tabulation includes estimated locations for 20 in. dia." to address erosion to be encountered during construction Verify the specific locations with the Engineer prior to beginning place Bid item includes 25% additional quantity for field adjustments and re Use Perimeter and Slope Sediment Control Devices fabricated in accord Removal of devices may be completed for areas that have achieved
21	2602-0000351	REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE	LF	950	Refer to Tab. 100-19. The tabulation includes estimated locations for 20 in. dia." to address erosion to be encountered during construction Verify the specific locations with the Engineer prior to beginning place Bid item includes 25% additional quantity for field adjustments and reuse Perimeter and Slope Sediment Control Devices fabricated in accertation Removal of devices may be completed for areas that have achieved

rence Notes

r placement of "Perimeter and Slope Sediment Control Device, n.

ement.

eplacements.

cordance with the Standard Specifications.

70% permanent growth, as approved by the Engineer.

r placement of "Perimeter and Slope Sediment Control Device, n.

ement.

eplacements.

cordance with the Standard Specifications.

d 70% permanent growth, as approved by the Engineer.

		100-1D 10-18-05			
This proje	ect is for a bridge deck replacement and approach work for	a 215'-5 x 28'-0 pretensioned prestressed concrete beam bridge on	Tabulation		DF TAE
N. Divisio	n Street over I-80, located 1.1 miles east of Jct. IA-130.		C Sheets		
			100-0A 100-1D	ESTIMATED ROADWAY QUANTITIES (1 DIVISION PROJECT) PROJECT DESCRIPTION	
		105-4 10-18-11	100-4A	ESTIMATE REFERENCE INFORMATION	
	ΣΤΛΝΙΛΑΡ Ο		100-19	LONGITUDINAL GROOVING	DEVICES
	The following Standard Road Plans appl	v to construction work on this project.	103-10 105-4	TOPSOIL STRIPPING AND PLACEMENT	
Number	Date	Title	107-23	GRADING FOR GUARDRAIL INSTALLATIONS	
BA-200 BA-201	04-20-21 Steel Beam Guardrall Components 04-18-17 Steel Beam Guardrail Barrier Transition Section	(MASH TL-3)	108-8A 108-22	STEEL BEAM GUARDRAIL AT CONCRETE BARRIER OR BRIDGE PAVEMENT MARKING LINE TYPES	E RAIL END
BA-202	10-20-15 Steel Beam Guardrail Bolted End Anchor	TL 2)	110-1	REMOVAL OF PAVEMENT	
BA-250	04-20-21 Steel Beam Guardrail Installation at Concrete B	arrier or Bridge End Post (MASH TL-3)	110-13	DELIVERY AND STOCKPILING	
BR-204	10-19-21 Double Reinforced 12" Approach with Variable De	pth Paving Notch	111-25	INDEX OF TABULATIONS	
EC-502	04-21-15 Seeding in Rural Areas		112-9	SHOULDERS	
EW-301 PM-110	04-20-21 Guardrail Grading 04-21-20 Line Types		232-3A	EROSION CONTROL (RURAL SEEDING)	
PV-101	04-21-20 Joints		232-30	EROSION CONTROL (STABILIZING CROP SEEDING)	
SI-173 ST-211	04-19-16 Object Markers 10-18-16 Object Marker and Delineator Placement with Gua	rdrail	254-1	INCIDENT MANAGEMENT	
SI-881	04-16-19 Special Signs for Workzones		202 0		
TC-1 TC-213	10-15-19 Work Not Affecting Traffic (Two-Lane or Multi-L	ane)	J Sheets		
TC-252	04-21-20 Routes Closed to Traffic		108-23A	TRAFFIC CONTROL CLOSURE TABLE	
TC-402 TC-417	10-19-21 Work Within 15 ft of Traveled Way 04-21-20 Ramp Closure		108-25	511 TRAVEL RESTRICTIONS	
TC-418	04-21-20 Lane Closure on Divided Highway		111-01	COORDINATED OPERATIONS	
	232-30	232-30		<u> </u>	262-6
	10-19-21	10-19-21		10	-18-05
	EROSION CONTROL	EROSION CONTROL		UTILITIES	
	(NATIVE GRASS SEEDING)	(RURAL SEEDING)		(NOT A POINT 25 PROJECT)	
Area to be contractor	seeded is estimated to be less than 1 acre. It the determines the area exceeds 2 acres, notify the	Area to be seeded is estimated to be less than 1 acre. If the contractor determines the area exceeds 2 acres, notify the	This is NOT provisions	a POINT 25 project and is not subject to the of IAC 761-115.25.	I
Engineer. A	pproved quantity in excess of 2 acres will be paid for	Engineer. Approved quantity in excess of 2 acres will be paid for			C
Specificati	ons.	Specifications.	Contact Name	e : Nick Benhart	
Following +	he completion of work in a disturbed area and according	Following the completion of work in a disturbed area and according	Contact Pho	ne: 563-333-8718 il: nchenhant@midamenican.com	I
to the seed	ing dates in Section 2601 of the Standard	to the seeding dates in Section 2601 of the Standard			C
Specificati	ons, place seed and mulch on the disturbed area lying 8	Specifications, place seed, fertilizer, and mulch on the disturbed	MidAmerican	Energy (Gas)	С
	e beyond the shoulder us forrows.	a cu ijing o rece aujucene co shourder and median as rorrows.	Contact Pho	ne: 309-236-7716	I
SEED MIX: Big blueste	m (Andronogon geradii) 6 lbs PLS/Acre (7.0 kg/ba)	Place seed and fertilize according to the requirements of Article 2601 03 C 3 and Section 4169 of the Standard	Contact Ema	il: pcswanson@midamerican.com	C
Indiangrass	(Sorghastrum nutans) 6 lbs. PLS/Acre (7.0 kg/ha)	Specifications.	MidAmerican	Energy (Fiber Optic)	c
Little blue	stem (Schizachyrium scoparium) 6 lbs PLS/Acre (7.0 kg/ba)	Place mulch according to the requirements of Articles	Contact Name	e : Brian Recker ne: 515-242-4377	
Partridge P	ea (Chamaecrista fasciculata)	2601.03, E, 2, a and 4169.07, A of the Standard Specifications.	Contact Ema	il: brian.recker@midamerican.com	
Sideoats gr	4 IDS. PLS/ACTE (4.5 kg/ha) ama (Bouteloua curtipendula)	Preparing the seedbed, furnishing and applying seed,	Central Sco	tt Telephone	
Canada utild	4 lbs. PLS/Acre (4.5 kg/ha)	fertilizer, and mulch are all incidental to mobilization and will	Contact Nam	e : Brent Lindle	
Switchgrass	(Panicum virgatum) 1 lbs. PLS/Acre (2.2 kg/ha)		Contact Emai	il: brent@cstech.com	
Oats (Avena	sativa) 32 lbs./Acre (36.0 kg/ha)		BDC Group T	NC	Δ
Furnish Big	bluestem, Indiangrass, Canada wildrye and Little	254-1	Contact Nam	e : Larry Lehman	с
bluestem th	at is debearded or equal to facilitate the application	10-02-01	Contact Pho	ne: 319-389-3624 il: llebman@bdcgroupinc.com	E
of secu.					S
Furnish see Source G0-I	d certified as Source Identified Class (Yellow Tag) owa. Oats are excluded from this requirement.	An incluent management plan, provided by the District Office, will be discussed at the pre-construction conference.	Lumen / Cen Contact Nam	turylink (Long Distance) e : Robert Sampson	I
			Contact Pho	ne: 636-887-4725	s
Place seed Standard Sp	according to the requirements of Article 4169.02 of the ecifications.		Contact Ema	il: robert.sampson@lumen.com	p
	and the the maniformula of Antiples		Lumen / Cen	turylink (Local)	
2601.03,E,2	, a and 4169.07, A of the Standard Specifications.		Contact Nam	e : Antonio Glessner ne: 563-355-6402	
Dooronite t	he coodbod funniching and applying cood and wilch		Contact Ema	il: antonio.glessner@lumen.com	
are inciden	tal to mobilization and will not be paid for		MediaCom Co	mmunications	
separately.			Contact Nam	e : Mitch Hancock	
			Contact Pho Contact Emai	ne: 143-4735 il: mhancock@mediacomcc.com	Р
-				5	f
					b
					I L
FILE NO.	32074 ENGLISH DESIGN TEAM HNTB		SC	OTT COUNTY PROJECT NUMBER IMN-080-8	(347)

11/17/2021	3:02:30 PM	bcharipar	<pre>c:\caddlib\pw\hntb_bcharipar\centraldiv\d0270638\82080347C01.xlsm</pre>

SCOTT COUNTY PROJECT NUMBER IMN-080-8(347

BULATIONS	111-25 10-18-11
Title	Sheet No.
	<u> </u>
	0.1 - 0.3
	C.6
	C.8
	C.4
D SECTION	C.0
D SECTION	C.0
	C.7
	C.5
	C.0
	C.0
	C.4
	C.5
	C.5
	<u> </u>
	C.4
	C.4
	<u> </u>
	C.4
	J.1

262-6 10-18-05

UTILITIES

(NOT A POINT 25 PROJECT)

Name :	Mike Broderick
Phone:	515-725-4610
Email:	mike.broderick@iowa.gov
	lada a
erican W	Nater
Name :	Monica De La Paz
Phone:	563-650-7526
Email:	Monica.delapaz@amwater.com
ITS	
Name ·	lason Dale
Dhone ·	515-230-1005
Filolie.	
Email:	DOI-IOC-INATTIC@10Wadot.UC
	Name : Phone: Email: Prican V Name : Phone: ITS Name : Phone: Email:

232-11 10-19-21

EROSION CONTROL

(STABILIZING CROP SEEDING)

Area to be seeded is estimated to be less than 1 acre. If the contractor determines the area exceeds 2 acres, notify the Engineer. Approved quantity in excess of 2 acres will be paid for as extra work according to Article 1109.03,B of the Standard Specifications.

If outside of permanent seeding dates in Section 2601 of the Standard Specifications, or if required by a storm water permit, place stabilizing crop, fertilizer, and mulch on the disturbed area as follows:

Place seed and fertilize according to the requirements of Article 2601.03,C,1 and Section 4169 of the Standard Specifications.

Place mulch according to the requirements of Articles 2601.03, E, 2, a and 4169.07, A of the Standard Specifications.

Preparing the seedbed, furnishing and applying seed, fertilizer, and mulch are incidental to mobilization and will not be paid for separately.

)2940E-82	SHEET NUMBER	C.4	

* Not a hid ite	m									BRI	DGE A	PPRO to the	ACH SEC BR Series.	TION									64
NOC A DIU ILE	Locat	ion			Appr	oach Paveme	nt -		Standard F	load Plans				Subdrain		4	*	*	*	*			
Bridge Station	End	Skew Ah	nead	T Thickness	Pay Pay P	n-Reinf. I avement Pa Area S	ingle- Reinf. avement	Double- Reinf. — Pavement	BR Se Fixe Approach Mova	ries d or Abutt	Perfo ing Subdr	* orated ain 4"	Subdrain	* Outlet	, Porous Backfill	* Class 'A' Crushed Stone Backfill	* Modified Subbase	* Polymen Grid	r Specia Backfi	* 11		Remarks	
1844+16.13	South	Degree LEFT	es RIGHT 0.73	Inches 12.0	FT 70.0	SY 111.1	SY 73.5	SY 73.5	Abut BR-204 Mova	ment Pavem	ent 11	_F	STA 1842+47.00	Side 8 Rt.	CY 2.0	CY 0.2	TON 259.193	SY 288.	4 TON	Sout	th Approach Pavement	- See U Shi	eets for Modified B
1844+16.13	North		0.73		70.0	516.2	73.5	73.5	BR-204 Mova	ble BR-2	11	50.4	1845+85.2	5 Lt.	2.3	0.2	259.193	288.	4	Nort	th Apporach Pavement	- See U Sh	eets for Modified B
						510.2																	
 Lane(s) to See Typ. 71 Bid Item. Applies onl Bid Item. T Does not in 	which the 56, 7157 y for Pa yp. 7156 clude shu	e shoulder i , or 7158. ved Shoulder , 7157, or 7 rink.	s adjacen s constru 158.	nt. ucted on proje	ect with e	existing gra	nular shou	lders.			SI	HOULI	DERS										10-
Calculation	s assume	a HMA unit	weight (1	lbs/cf) of 145	, a Speci	al Backfill	unit weig	ht (lbs/cf)	of 140, and a	Granular Sho	ulder unit	weight	(lbs/cf) of	140.									
Pood	on (†	Location			Р	P _{SG}	G		Class 13 ⁴	Hot Mix A	sphalt	Binder	Paved	9" Paved Shoulder	Reinforce Paved	Quant d	Special Bad	ckfill			Granular Shoulder	Earth Show	ulder Construction lternates
Identification	irecti F Traf	Station	n to Stat:	ion Side	Width FT	Width	Widt	n Lengtl	Excavation	TON	TON/STA	TONS	Shoulder	at <u>Guardrail</u> sy (5)	Shoulder	HMA Alte	rnate	PCC Alte	rnate	cy (3)		STA 3	HMA PCC
N. Division St	<u>а</u> 5 . NB	1841+24.1	.5 1841	+44.15 Rt.		6	.5	20.	0 3.4	7.520	37.600	0.451		15.4	51 0	5.278	26.390					0.20	
	NB	1841+44.1 1841+94.1	5 1841 1 1842	+94.11 Rt. +37.00 Rt.		6.5 to 4	.5	50.	0 7.4 9 5.4	15.960 11.467	31.945 26.736	0.958		32.6		11.366 8.319	22.750 19.397					0.50 0.43	
	NB	1845+95.2 1846+25.6	5 1846 1 1846	+25.61 Rt. +45.61 Rt.		5.3 to 6	.5	30. 20.	4 5.1 0 3.4	10.359 7.520	34.120 37.600	0.622 0.451	·	21.2 15.4		7.332	24.150 26.390					0.30 0.20	
	SB SB	1841+86.6 1842+06.6	5 1842 5 1842	+06.65 Lt. +37.00 Lt.		6.5 to 5	.5 .3	20.	0 4.7 4 5.6	7.520 10.356	37.600 34.120	0.451 0.621		15.4 21.2		5.278	26.390 24.150					0.20	
	SB SB	1845+95.2 1846+38.1	5 1846 5 1846	+38.15 Lt. +88.11 Lt.		4.5 to 6	.5	42.	9 5.5 0 7.2	11.470 15.960	26.736 31.945	0.688 0.958		23.4 32.6		8.321 11.366	19.397 22.750					0.43	
	SB	1846+88.1	.1 1847	+08.11 Lt.		6	.5	20.	0 3.2	7.520	37.600	0.451		15.4		5.278	26.390					0.20	
								TOTALS	: 50.9					216.0		75.1						3.26	
* Not a Bid Ite				REM	OVAL Refer to	OF PAV Tabulation :	EMENT				110 04-16-	-1	Location	LONGI Total	TUDIN	AL GROO	/ING	100-28 10-19-10					
Begin Station	End Stati	on	ide	Pavement Type	Area	Saw Cut	*		Remarks				S. of Bridge Bridge N. of Bridge	SY 239. 651. 239.	4 South A 8 Bridge 4 North A	Approach Paven Deck Approach Paven	ient						
1041-24-15	1842+8	37.00 R	t.	HMA/PCC	SY 109.	LF 2 122	.0 SE Sh	oulder					TOTAL:	1130.	6								
1841+24.15	1842+8	37.00 L 97.00 BC	.t. OTH	HMA/PCC HMA/PCC	48. 198.	5 54 3 24	.2 SW Sh .0 South	oulder Approach P	avement														
1841+24.15 1841+86.65 1842+37.00	1843+0		ОТН	HMA/PCC HMA/PCC	198. 53.	5 24 2 57	.0 North .6 NE Sh	Approach P oulder	avement														
1841+24.15 1841+86.65 1842+37.00 1845+25.25 1845+45.25	1843+6 1845+9 1846+4	45.61 R	Rt.			1 101	5 NW SH	oulder															
1841+24.15 1841+86.65 1842+37.00 1845+25.25 1845+45.25 1845+45.25	1843+6 1845+9 1846+4 1847+6	95.25 BC 45.61 R 98.11 L	t	HMA/PCC	112.4	+ 121	.5 100 51																
1841+24.15 1841+86.65 1842+37.00 1845+25.25 1845+45.25 1845+45.25	1843+6 1845+9 1846+4 1847+6	95.25 BC 15.61 R 98.11 L	kt. t.	HMA/PCC TOTAL:	720.7	+ 121 1																	

FILE NO. 32074 ENGLISH DESIGN TEAM HNTB	SCOTT COUNTY	PROJECT NUMBER IMN-080-8(347
---	--------------	------------------------------

11/17/2021 3:02:30 PM bcharipar c:\caddlib\pw\hntb_bcharipar\centraldiv\d0270638\82080347C01.xlsm

)2940E-82	SHEET NUMBER	C.5	

					Poss	ible Stan	ıdards: I	STEEL 3A-200, B	. ВЕА М ва-201, ва	Л GU -202, в	ARDRA A-205, BA	ILA -206, BA	Т СО -210, ва	NCRET A-211, BA	E BAF	RRIER	О 250, в/	BRI A-260, l	DGE R/ .S-625, LS-	AIL END 626, LS-630,	SECT LS-635, S	ION 1-172, SI-1	17
<pre>(1) Lane(s) t (2) Not a bid</pre>	o which the o item. Incide	bstacle ntal to	is adj guardr	jacent. ail instal	lation.												1						
(1)	Location Side			_	Layout	Lengths						Deli	neators	and Obje	ct Marker	rs (2)			1	1		Bid	It
ov ction raffic (We dian we	on	Offset	BA-	250, BA-260,	UT2	$\frac{\text{or } \text{LS-63}}{1}$	5 ET	Long-Spa	an Syste	em SI-	De] 211	ineator 1-172 Type 1	Ob Type 2	ject Mark SI-173 Typ	ker De 3	Bolte And	ed End chor	Post Adapter	Steel Beam Guardrail	Barrier Transition Section	Tangant	<u>-A-</u>
Dire of T		_							BA	-211			White	OM2-2	OM3-L	OM3-R	BA	-202	BA-210	BA-200	BA-201	BA-205	╡
1 NB	0 1843+6	07.00	FT 15.4	LF 115.62	LF 5 0.00	LF 0.6	00	47.7	STATION		YPE TY	2	EACH	EACH 5	EACH	EACH 1	A	EACH 1	EACH	LF 75.0	EACH 1	EACH	
2 NB 3 SB	0 1845+2 0 1843+6	25.25	15.4 15.4	53.12	5 0.00 5 0.00	0.0	90 90	47.7				2		3	1		A A	1		12.5	<u> </u>	1	i
4 SB	0 1845+2	25.25	15.4	115.62	5 0.00	0.0	90	47.7				2		5		1	Α	1		75.0	1	1	L
									TOTAL	.S:								4		175.0	4	4	ŧ
1 Lane(s) to which the	e instal	llation	is adjacer	nt.		GRAD	ING F	OR GL	JARDI	RAIL :	INST Refer to	ALLA EW-301	TIONS	,			[107-23 10-18-11	
	Location	-				г – т		Dime	ensions (F	eet)		1			Earth	hwork							
. nection	Station	Sid	f	Foreslope a Guardrail	nt (X1)	(Y1)	(X2)	(Y2)	(X3)	(Y3)	X4	¥4	Z) Exca	avation ass 10	Embankı In Pl	ment ace			Remarks			
1 NB	1843+07.	00 Rt	. M	Natch Exist:	ing 106.6	5.0					162.9	10.6	59.	4	CY	CY	4.4	SE Sho	ulder				
2 NB 3 SB 4 SB	1845+25. 1843+07. 1845+25.	25 Rt 00 Lt 25 Lt	. M . M	Natch Exist Natch Exist Natch Exist	ing 44.1 ing 44.1 ing 106.6	5.0 5.0 5.0					100.4 100.4 162.9	10.6 10.6 10.6	59. 59. 59.	4 4 4			2.9 2.9 4.4	NE Sho SW Sho NW Sho	ulder ulder ulder				
													TOTAL	:			14.7						
				TODSO	ТІ СТРТ				CEMEN	т				103-1 04-18-:	LØ 17					r			_ `
		Locat	ion	10930.	IL SIKI	Toncoil				mont						Item	Descri	ption	Qua	ntity Un	Its	Delivery	<u>,</u>
Road Ident	tification	Dir. o	f Begi	n Station	End Station	Thi	ickness	ing rops	Thickness	S		Rema	arks		Ste	eel Beam eel Beam	Guardra Guardra	ail ail		162.5 87.5	LF Dave	enport Main enport Main	ite
N Division	Street	Traffi	c8-	8/1+1/ /2	18/3+07 00		IN	5.0	IN	10	14 2 CV (4	trinnin	a)		Ste	eel Beam	Guardra	ail		87.5	LF Dave	enport Main	ite
N. Division	Street	NB	18	845+25.25	1846+55.34			5.0		4.0	11.9 CY (9	Strippin	g)			eer beam	Guaruro	all		102.5		inport Main	
N. Division N. Division	Street Street	SB	18	841+76.92 845+25.25	1843+07.00			5.0		4.0	13.6 CY (9 11.4 CY (9	Strippin Strippin	g) g)		_ └──								
			_						то	TAL:	51.1				_								
	Location	PER	IME	TER, S	SLOPE AN	ND DI Pos	TCH (CHECK	SEDI EC-204 Check	MENT	T CON	FROL	DEVI	ICES			100- 10-19	-19)-21					
Begin Statio	n End Stati	on Si	de 9	Length inch Dia	h of Installa 12 inch Dia	tion 20 inch [Le Dia 12	ngth of I inch Dia	Installati 20 inch	.on Dia				Remarks									
1841+00.0	0 1843+20	.00 R	t.	LF	LF	LF 220	.0	LF	LF	SE	E Shoulder												
1841+60.00 1845+10.00 1845+10.00	0 1843+20 0 1846+70 0 1847+30	.00 L .00 R .00 L	t. t. t.			160 160 220	.0 .0 .0			Sh NE Nh	V Shoulder E Shoulder V Shoulder												
	TOT 25% (Round BID TOT	AL: ed) AL:				760 190 950	.0 .0 .0																

FILE NO.	32074	ENGLISH	DESIGN TEAM HNTB	SCOTT COUNTY	PROJECT NUMBER	IMN-080-8(347)
11/17/2021	3:02:30 PM	bcharipar	c:\caddlib\pw\hntb_bcharipar\centraldiv\d0270638\82080347C01.xlsm			

73 and SI-211.

ems					
250 or LS-6	530		BA-260 o	r LS-635	
End Te	rminal		Barrier Transition	End Terminal	Remarks
Flared	Tangent	Flared	Section	Tangent	
BA-206	LS-625	LS-626	BA-221	BA-225	
EACH	EACH	EACH	EACH	EACH	
	[]	ļ			
		L			
			1		

110-7A 04-17-12

REMOVAL OF STEEL BEAM GUARDRAIL

(1) Lane(s) to which the installation is adjacent. (2) Includes length of End Terminals and End Anchors.

]			
No.	rection	Station t	o Station	Side	Removal of Guardrail
	of				LF
1	NB	1841+47.62	1843+07.00	Rt.	162.5
2	NB	1845+25.25	1846+10.07	Rt.	87.5
3	SB	1842+21.99	1843+07.00	Lt.	87.5
4	SB	1845+25.25	1846+85.39	Lt.	162.5
			-		
			TOTAL:		500.0
			-		
1					

110-13 04-20-10

STOCKPILING

ocation	Contact Name & Number	Remarks
nance Garage	Ben Petty (563-391-3920)	See Tab. 110-7A
nance Garage	Ben Petty (563-391-3920)	See Tab. 110-7A
nance Garage	Ben Petty (563-391-3920)	See Tab. 110-7A
nance Garage	Ben Petty (563-391-3920)	See Tab. 110-7A

)2940E-82	SHEET NUMBER	C.6	

PAVEMENT MARKING LINE TYPES

NPY4: No Passing Zone Line (Yellow) @ 1.25

See PM-110 ***MNY4 - Factor of 1.00 as value includes number of 4-inch passes to cover median nose area.

 *BCY4 - Place on the same side of the roadway to match existing markings near the project.

 **NPY4 - For estimating purposes only. No Passing Zone Lines will be located in the field.

 BCY4: Broken Centerline (Yellow) @ 0.25

 DCY4: Double Centerline (Yellow) @ 1.00

Location													Le	ength by L	ine Type ((Unfactore	d)	
Road ID	Station t	o Station	Dir. of	Marking Type	Marking Type Side B			BCY4*	DCY4	NPY4**	BLW4	ELW4	ELY4					
			maver		L	С	R	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	
N. Division St.	1842+37.00	1845+95.25	BOTH	Waterborne/Solvent Paint			Х					7.17						
	1842+37.00	1845+95.25	NB	Waterborne/Solvent Paint	X				3.58									
				Factored Total: Waterborne/Solvent Paint				-	7.17	-	-	7.17	-	-	-	-	-	
				Bid Quantity: Painted Pavement Markings, Waterb	orne	or S	olve	nt-Based			14.33							

							-		
FILE NO.	32074	ENGLISH	DESIGN TEAM HNTB	SCOTT COUNT	Y PROJECT NUMBER	IMN-080-8(347)2940E-82	SHEET NUMBER	C.7	
11/17/2021	3:02:30 PM	bcharipar	c:\caddlib\pw\hntb_bcharipar\centraldiv\d0270638\82080347C01.xlsm						

								108-22 04-16-13
nedian nose	e area.							
BLW4: Bro	oken Lane I	_ine (Whit	e) @ 0.25			ELW4: Edg	e Line Ri	ght (White) @ 1.00
Line Type	(Unfactore	d)						
								Remarks
STA	STA	STA	STA	STA	STA	STA	STA	
-	-	-	-	-	-	-	-	

SURVEY SYMBOLS	SURVEYED UTILITY OWNER SYMBOLS	PLAN VIEW COLOR LE
BRG Bridge UIN Miscellaneous Line SH Paved Shoulder	Sub-Surface Utility Mapping Quality Level is in accordance with CI/ASCE 38-02 Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data.	Green (2) Existing Blue (1) Proposed Magenta (5) Existing
EP Edge of Paved Roads (ML or SR) SNP Unpaved Shoulder -# FCL Chain Link and Security Fence TLNR Tree Line Right 	Remark Abbreviations QLA Quality Level A Highest guideline quality level QLD Quality Level D Lowest guideline quality level • PPA Power Pole Co. 1 • UB Utility Box • EB Electrical Box • PR Electic Riser Pole	SHADING Design Color No. Gray, Light (48) Proposed Gray, Med (80) Proposed Brown, Light (236) Grading S PROFILE VIEW COLOR LINEWORK Design Color No. Green (2) Existing G Blue (1) Proposed Magenta (5) Existing G Magenta (5) Existing G Magenta (5) Existing G Pavement Guardrall Pavement Pavement Removal Saw Cut

EGEND OF PLAN AND PROFILE SHEETS

Topographic Features and Labels I Alignment, Stationing, Tic Marks, and Alignment Annotation Utilities

Approach Pavement Shading l Shoulder Granular Shading Shading

LEGEND OF PLAN AND PROFILE SHEETS

Ground Line Profile Profile and Annotation Utilities

PLAN AND PROFILE LEGEND AND SYMBOL INFORMATION SHEET

(COVERS SHEET SERIES D)

General Information

Measurement units for this survey are US survey feet. This survey is for proposed Bridge Deck Overlay of Division Street Bridge over I-80. This project is a Partial Survey with RCS.

Vertical Control

This survey observed NGS Control Monument with Designation DVN A 1975 (PID=AB5747) with published NAVD88 elevation.

Horizontal Control

The project coordinate system for this survey is derived from the lowa Regional Coordinate System for Region 11. Control Point 1 was established relative to IaRTN reference stations. IaRTN Reference Station coordinates are relative to the National Reference Station network datum: NAD83 (2011) for Epoch 2010.00. Additional control points were placed throughout the project using a GNSS Base-Rover setup relative to Control Point 1.

Alignment Information

The horizontal alignment for this survey is based on best-fit centerline. Stationing has been developed using center point of deck stationing POT Sta. 1844+16.13. Available project alignment indicates tangent alignment throughout project limits.

Survey stationing relates to as built plan stationing as follows:

POT Sta. 1844+16.13; As-built Plans Project No. IN-80-8(122)295-15-82

HORIZONTAL AND VERTICAL PROJECT CONTROL COORDINATE LISTING HORIZ. DATUM: NAD83(2011) EPOCH 2010.00 VERT. DATUM: NAVD88 Ia. Regional Coordinate System Zone 11

Control Point Information

Po	int Description	Northing	Easting		
Ele	evation Feature				
1	SET 5/8 INCH REBAR	8094310.56	21482352.85	753.44	CP
3	SAWD X IN INLET TOP	8090591.94	21482368.44	723.26	CP
4	SET 5/8 INCH REBAR	8091276.25	21482352.95	730.55	CP
5	SET 5/8 INCH REBAR	8092229.71	21482347.56	733.47	CP
6	SET 5/8 INCH REBAR	8092895.99	21482296.00	731.25	CP
14	RR SPIKE IN 18 IN PP	8091384.93	21482250.64	731.13	BM
2	PIP AB5747	8098080.54	21483370,81	751.9	BM

	FILE NO. 32074	ENGLISH	design team HNTB	SCOTT COUNTY	PROJECT NUMBER	IMN-080-8(347)29-
4 : 00	1:30 PM 11/10/2021	. akorff	<pre>pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Overland Park Project</pre>	s\73551 Iowa DOT Task Order 7\IMN-080-8(347)2940E-82\Base\SHT_8	2080347Z11.dgn	

94OE-82 SHEET NUMBER G.1	

CONTROL POINT VICINITY MAP

This map is a guide to the vicinity of the primary project control points. Primary control is for use with RTK base stations and for RTN validation. Future surveys will use primary project control to establish temporary control as needed for construction or other surveying applications.

																101-16 10-20-09
							ALIGN	MENT COO	ORDINATE	S						
		P	oint on Tangen	t		Begin Spiral		Begin Curve		Simple Cur	eve PI or Master PI of SCS		End Curve			End Spiral
Name	Location	Station	Coord	inates	Station	Coordinates	Station	Coord	inates	Station	Coordinates	Station	Coord	inates	Station	Coordinates
			Y (Northing)	X (Easting)		Y (Northing) X (Easting)		Y (Northing)	X (Easting)		Y (Northing) X (Easting)		Y (Northing)	X (Easting)		Y (Northing) X (Easting)
SR_DIVISION	N. DIVISION STREET															
9		1830+96.02	8090482.32	21482328.54												
10		1869+41.96	8094328.24	21482316.96												

FILE NO.	32074	ENGLISH	DESIGN TEAM HNTB	SCOTT COUNTY PROJECT NUMBER	IMN-080-8(347)2940E-82	SHEET NUMBER G.3
11/10/2021	4:05:51 PM	akorff	c:\caddlib\pw\hntb_akorff\centraldiv\d0270638\82080347G01_Print.xlsm			

				511 TRAVFI I	RESTRICTIONS							
Route	Direction	County	Location Description	Feature Crossed	Object Type	Maint. Bridge No., Structure ID, or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	T
N. Division St. N. Division St.	. Both . Both	Scott Scott	1.1 mi E of Jct. IA-130 1.1 mi E of Jct. IA-130	I-80 I-80	Traffic Control Device Bridge	FHWA No. 47520 Maint. No. 8294.10080	Horizontal Vertical	28'-0" 16'-3"	Closed 16'-3"	Closed 15'-3"	30'-0" 16'-3"	
												_
				108-23A 08-01-08			STACTA					
N. Division St	reet shall be	e closed to traffi	c in accordance with Standard Road Plans listed in	Tab. 105-4 on Sheet C.4.	Prior to Stage 1		JIAGIN					
For additional Refer to Tab. 2	information, 108-26A for S	refer to Part 6 Staging Notes and	of the Manual on Uniform Traffic Control Devices an J Sheets for I-80 detour routes.	d the current Standard Specifications.	Traffic: Maintain traf Should the Con of portable dy	fic in accordance with S ntractor require a full o ynamic message signs (PD	tandard Road Pl closure of I-80 MS) and use of	an TC-402. for overhead b overhead and si	oridge work, Co de mounted DMS	ntractor to coo one week prior	rdinate placem to closure.	nen [.]
					Construction: Coordinate acc	cess to the project site	with adjacent	City of Davenpo	ort (RM-1827(68	9)9D-82) proj	ect.	
			111-01 04-17-12		Stage 1	sion Street bridge to tr	affic in accord	ance with Stand	lard Road Plan	IC-252 Detour	to be provided	4
Conter work in protection	OORDINA rogress durin n of the proj	TED OPERA ag the same period ects listed. Coord	TIONS of time will include dinate operations with		by adjacent C For bridge wo Contractor ha replacement i Should the Co	ity of Davenport (RM-182 rk over I-80, maintain I s the option to close I- n accordance with Modifi ntractor require a full	7(689)9D-82) -80 traffic in 80 between IA-1 ed TC-454 on Sh closure, traffi	project. accordance with 30 (Northwest B eet U.2 and Tab c shall be deto	Standard Road Slvd.) and U.S. 0. 108-23B. Dured to I-280	Plan TC-418. 61 for bridge of	deck and beam	j.2
those of other of Pro- RM-1827(689) MBIN-280-6(503 MBIN-080-6(719	contractors w ject 9D-82)00M-82)2780N-82	Street Improv Bridge Painti Patching	same area. pe of Work ements - RISE Project ng		Construction: Complete brid Remove and re Remove and re Construction a (RM-1827(689) Complete other	ge work on N. Division S construct 70' of approacl place guardrail and pave and project tie-ins to be -9D-82) project. r Stage 1 construction.	treet as detail h pavement on e shoulders at g e coordinated w	ed in the bridg ach end of the uardrail as sho ith proposed im	e plans. N. Division St won on Sheet D. pprovements for	reet bridge. 2. adjacent City (of Davenport	
					Traffic: Open all I-80 Open N. Divis:	lanes to traffic. ion Street to traffic in	coordination w	ith adjacent Ci	ty of Davenpor	t (RM-1827(689)	9D-82) proje	:ct
* This is to on Shaded area ind:	ly be used ir icates times	conjunction with	Tabulation 108-23A ate are not allowed	TRAFFIC CONTROL CLOSURE	TABLE					108-23B MODIFIED	 	
12:00 12:3 SUN MON TUE WED THU FRI SAT	30 1:00 1:30	2:00 2:30 3:00 3:3	AM 80 4:00 4:30 5:00 5:30 6:00 6:30 7:00 7:30 8:00 8:30	Noon 9:00 9:30 10:00 10:30 11:00 11:30 12:00 12:30	0 1:00 1:30 2:00 2:30 3:00 3:30	4:00 4:30 5:00 5:30 6:00	6:30 7:00 7:30	8:00 8:30 9:00	9:30 10:00 10	:30 11:00 11:30		
Shaded area indi	icates times	that lane closure	s are not allowed AM	Noon		PN	1					
12:00 12:3 SUN MON TUE WED THU FRI SAT	30 1:00 1:30		10 4:30 5:00 5:30 6:00 6:30 7:00 7:30 8:00 8:30 1	0 9:00 9:30 10:00 10:30 11:00 11:30 12:00 12:30	0 1:00 1:30 2:00 2:30 3:00 3:30	4:00 4:30 5:00 5:30 6:00	6:30 7:00 7:30	8:00 8:30 9:00	9:30 10:00 10	:30 11:00 11:30		
					CCOTT				02		<u> </u>	
FILE NO. 326)/4 ENGLI	.SH DESIGN TEAM	HNIB		SCULI COUNTY PRO	JECT NUMBER IMN-6	080-8(347)2940E	-82 SHE	EI NUMBER	J.1	

108-25 10-21-14

Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks
28'-0"	Closed	Closed	30'-0"	Detour
16'-3"	16'-3"	15'-3"	16'-3"	

108-26A 08-01-08

to J.5.

9 40E-82 s⊦	EET NUMBER J.1

DETOUR APPLICABILITY		
REASON	STAGE	DURATION
Bridge deck and beam replacement on N.Division Street over existing I-80	Overnight	Short-term

Notes

All sign locations are approximate and may be adjusted to fit field conditions.
 All portable dynamic message signs (PDMS) shall be connected to the Iowa Traffic Management Center (IMC). Contractor to provide the TMC with necessary PDMS connection information. The Iowa TMC will post all messages in Iowa and coordinate all messages needed in Illinois.
 For road closure details, see additional J Sheets and Modified TC-454 on Sheet J.6.

FILE NO. 32074	ENGLISH	design team HNTB	SCOTT	COUNTY	PROJECT NUMBER	IMN-080-8(347)294
4:02:25 PM 11/10/2021	akorff	pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Overland Park Project	ts\73551 Iowa DOT Task Order 7\IMN-080-8(347)2940E-82\	Base∖ S HT_8	2080347Z11.dgn	

40E-82	SHEET NUMBER J.2	

4:02:59 PM 11/10/2021 akorff pw:\\pw-int.hntb.org:PWCentralDiv\Documents\Overland Park Projects\73551 Iowa DOT Task Order 7\IMN-080-8(347)294--0E-82\Base\SHT_82080347Z11.dgn

SHEET NUMBER J.4

 A Los Norma Ner Marker Mark Ner Marker Strong Marker Strong Address Stro		Α		В		C		D		E
A LOW AS WORK CHARGE ON THE EPOCET. THE CONTRACTORS SULL RELAXEN ON THE PROJECT, IF SOLES AS MARKET TAKES, AS MORE THE PROJECT THE CONTRACTORS CON	STAG 1. T S S T P	ING NOTES HESE STAGING NOTES AR SUGGESTED STAGES ALON MULTANEOUSLY. THE CO RAFFIC IS MAINTAINED AN PORTIONS OF THIS PROJEC	E NOT INTENDED TO IE. IT IS UNDERSTOO NTRACTOR MAY CON D THESE OPERATION CT, AND OTHER CONS	CONFINE THE CONTRACT D THAT VARIOUS STEPS II NDUCT SEVERAL OPERATI NS DO NOT CONFLICT WIT STRUCTION ACTIVITIES.	OR'S ACTIVITIE NCLUDED HERE ONS CONCURR H THE STAGING	S TO THE AREAS OF IN MAY OCCUR ENTLY, PROVIDED THAT INDICATED HEREIN, OTHER				
	1 2. A E C T C J	AS LONG AS WORK REMAIN EXIST WITHIN A STAGE OF DBSTRUCTIONS OR UTILITY HE CONTRACTOR TO WOR CONTRACT DOCUMENTS, A PROVIDE ADDITIONAL DAYS USTIFICATION, IN ACCORD	IS ON THE PROJECT, I'HE PROJECT WHICH I ISSUES), THE CITY I KK ON OTHER "UNAFF T NO ADDITIONAL CO TO THE CONTRACT ANCE WITH THE SUF	THE CONTRACTOR SHALI ARE BEYOND THE CONT HAS THE OPTION TO REVIS ECTED" STAGES OR ARE/ OST TO THE OWNER. THE O OR BASED UPON RELOCA	L REMAIN ON TH RACTOR'S CONT SE THE CONTRA AS OF THE PRO. OWNER MAY, AT TION EFFORTS . IS.	IE PROJECT. IF ISSUES IROL (SUCH AS IRCT STAGING AND DIRECT JECT AS SHOWN WITHIN THE THE OWNERS DISCRETION, AND SCHEDULING			W16-8P 30" X 15" M4-9L 30" X 30"	W16-8P 30" X 15" M4-9L 30" X 30"
	3. C U P V P P S	DNCE WORK WITHIN A STAG INTIL ALL WORK WITHIN TH ND THE CONTRACTOR RE VRITTEN AUTHORIZATION I SSESSED THE DISINCENT RE NOT WORKING ON THE OPPLICATIONS COVERING A TOPPAGES.	GE HAS COMMENCED IAT STAGE HAS BEEN MOVES THE "NORMA FROM THE OWNER, T IVE RATE FOR EACH PROJECT. DISINCEN ANY PERIOD DURING	D, THE CONTRACTOR SHA N COMPLETED. IF WORK W IL" SIZE CREW (AND/OR EC THEN THE CONTRACTOR V DAY THE CONTRACTOR'S NTIVES WILL BE ASSESSEI WHICH THE CONTRACTOR	LL CONTINUE W /ITHIN THAT ST/ QUIPMENT) FRO VILL BE CHARGE S "NORMAL" SIZE D AT THE TIME C R HAD UNAUTHO	ORK WITHIN THAT STAGE AGE IS NOT COMPLETED M THE PROJECT WITHOUT ED A DAY AND IMMEDIATELY CREW AND EQUIPMENT OF MONTHLY PAY DRIZED PERIODS OF WORK			DETOUR N DIVISION ST	END DETOUR M4-8A 6
	4. C T 2 R	CONTRACTOR TO COORDIN TO A CHANGE IN PHASES W REPRESENTATIVE IS NOTIF NDICATE THE NEW TRAFFIC	IATE WITH THE CITY' /HICH REQUIRES A T IED OF A CHANGE IN C PATTERNS.	S CONSTRUCTION REPRE RAFFIC CONTROL CHANG TRAFFIC CONTROL, THE F	SENTATIVE AND E. ONCE THE CO PROJECT WEBS	WILL NOTIFY 5 DAYS PRIOR DNSTRUCTION ITE WILL BE REVISED TO			M4-8 30" X 15" W16-8P 30" X 15" M5-1L 30" X 21"	24 × 10
	5. C	CONTRACTOR TO COORDIN DAVENPORT, AND IOWA DO	IATE WITH CONSTRU T PROJECTS.	ICTION OCCURRING CONC	URRENTLY ON	OTHER PRIVATE, CITY OF				DO NOT ENTER
									(9) R3-5L	R9-11AR (10)
	3									
	_									
A B C D E	4									
		А		В		C		D		E
	2074						CONTT			

akorff