Design and Tabulation Forms

SECTION

100

Estimate of Quantities

NO.	DATE	TITLE
100-0A	10-28-97	Estimated Roadway Quantities (1 Division Project)
100-1A	09-20-22	Estimated Project Quantities
100-1C	04-17-12	Estimated Project Quantities (Up to a 5 Division Project)
100-1D	10-18-05	Project Description
100-4A	06-02-23	Estimate Reference Information
100-5	10-17-23	Curb and Gutter
100-7	01-13-23	Fencing
100-8	08-15-22	Removal of Fence
100-9	08-15-22	Transition Mat
100-10	08-15-22	Floating Silt Curtains
100-11	04-16-24	Erosion Control for Intake or Manhole Well
100-12A	08-15-22	Estimated Erosion Control Project Quantities P.S. & E. Only
100-13	08-15-22	Silt Ditches
100-14	08-15-22	Silt Basins
100-15	08-15-22	Silt Dikes
100-16	08-15-22	Tabulation of Intercepting Ditches
100-17	08-15-22	Tabulation of Silt Fences
100-18	08-15-22	Silt Fences for Ditch Checks
100-19	10-15-24	Perimeter and Slope Sediment Control Device
100-20	08-15-22	Planting Quantities Listing
100-21	08-15-22	Fill For Culverts Used in Bridge Replacements
100-22	08-15-22	Rolled Erosion Control
100-23	08-15-22	Rock Erosion Control
100-24	10-15-24	PCC Pavement
100-25	10-15-24	HMA Pavement
100-26	08-15-22	Incidental Items
100-27	08-15-22	Proposed Posted Speed Limit
100-28	08-15-22	Longitudinal Grooving
100-32	08-15-22	Rock Check Dam
100-33	08-15-22	Temporary Sediment Control Basin

SECTION

100

Estimate of Quantities

NO.	DATE	TITLE
100-34 100-36 100-37	08-15-22	Stormwater Drainage Basin Open-Throat Curb Intake Sediment Filter Grate Intake Sediment Filter Bag

	100-0 10-28-5 (1 DIVISION PROJECT)							
Item No.	Item Code	Item	Unit	Total	As Built Qty.			

			ESTIMATED PROJECT QUANTITIES			100_01A 9/20/22
Line No.	Item No.	Item Code	Item	Unit	Total	As Built Qty.

	IGN TEAM Methods	CTODY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-

2-22	SHEET NUMBER C.O	

	ESTIMATED PROJECT QUANTITIES (UP TO A 5 DIVISION PROJECT)												
Line No.	Item No.	Item Code			Item	Uni	Division :	1 Division 2	Division 3	Division 4	Division 5	Total	As Built Division 1
L													
FILE NO.		ENGLISH	DESIGN TEAM	Methods					STORY COU	NTY PROJECT	NUMBER NH	SX-222-2	(22)-22

100_01C 4/15/24

1	As Built Division 2	As Built Division 3	As Built Division 4	As Built Division 5

2-22	SHEET NUMBER C.0	

PROJECT DESCRIPTION

100_01D 8/15/22

FILE NO.	ENGLISH DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-2
3/27/2024 8:57:43 AM	Uae mys bae gen@iowadot.us			

-22-22	SHEET NUMBER C.0	

ESTIMATE	REFERENCE	INFORMATION	
			_

Item Code

Line No. Item No.

Description

100_04A 6/2/23

2-22	SHEET NUMBER C.O	

									CURB AND Refer to P	GUTTER									100_05 10/17/23
Line No.	Station From	Station To	Side	Length (LF)	Width (LF)	Width 1.5 (LF)	Width 2.0 (LF)	Width 2.5 (LF)	Width 3.0 (LF)	Width 3.5 (LF)	Width 4.0 (LF)	Width 4.5 (LF)	Width 5.0 (LF)	Width 5.5 (LF)	Modified Subbase (CY)	Special Backfill (TON)		Remarks	
FILE NO. 3/27/2024 9:01		NGLISH DESIGN TEAM	Method	S						STORY	COUNTY PRO	DJECT NUMBER	NHSX-22	2-2(22)-	-22-22	SHEET NUMBER	C.0		

* Bid Item	n					FEN	ICING					100_07 1/13/23
Line No.	Station From	Offset	Station To	Offset	Side	Fence Type	Fence Feature	Height (FT)	Quantity (EA) *	Length (LF) *	Remarks	

FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-
3/27/2024 9:02:43 AM	tammy.haugen@iowadot.us	

2-22	SHEET NUMBER C.O	

Removal of Field Fence is incidental to Clearing and Grubbing.					REMOVAL OF FENCE					
Line No.	Station From	Offset	Station To	Offset	Side	Туре	Length (LF)	Remarks		

				-	
FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-
3/27/2024 9:03:07 AM	tammy.hau	ugen@iowadot.us			

2-22	SHEET NUMBER C.O	

				NSITION Fer to EC-10		100_09 8/15/22
Line No.	Station	Side	Length (LF)	Width (LF)	Area (SF)	Remarks

FILE NO.	ENGLIS	H DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)	-22-
3/27/2024 9:03:29	9 AM tammy	haugen@iowadot.us				

2-22	SHEET NUMBER C.O	

Line No. Station Hanging (LF) Containment (LF) Clean-out (Containment) Silt Curtain (LF) (LF) (LF) (LF)				G SILT (fer to EC-202	CURTAINS	100 8/157
	Line No.	Station		(Containment)	Silt	Remarks

FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-22	SHEET NUMBER CE.0
3/27/2024 9:04:11 AM	tammy.haugen@iowadot.us			

EROSION CONTROL FOR INTAKE OR MANHOLE WELL						100_11
Possible Standard Road Plan : EC-603						4/16/24
Line No.	Location Station	Side	Cover Assembly Type	Quantity (EA)	Remarks	

1				
FILE NO.	ENGLISH	DESIGN TEAM Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-

2-22	SHEET NUMBER C.O	

	ESTIMATED EROSION CONTROL PROJECT Q	UANTITIES	P.S. & E. ONLY	100_12A 8/15/22
Line No. Item No.	Item	Unit	Division	Total

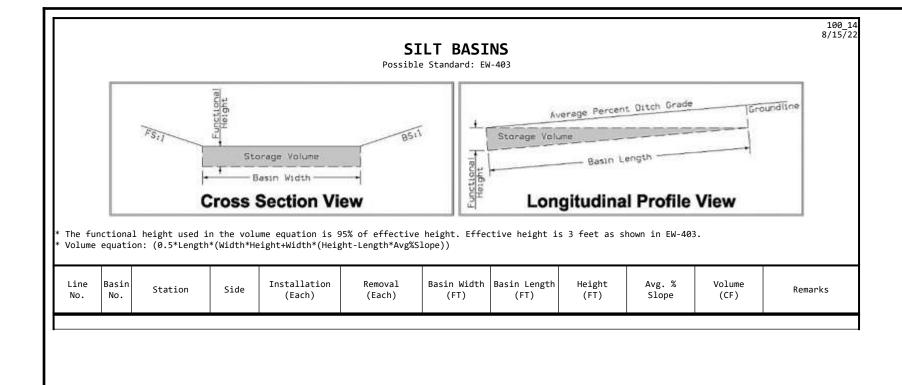
FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-
3/27/2024 9:05:18 AM	tammy.haugen@iowadot.us	

2-22	SHEET NUMBER C.O	

100 8/15 Refer to EW-403					
Line No.	Station From	Station To	Side	LF	Remarks

F	ILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-2
3/3	27/2024 9:05:48 AM	tammy.hau	ugen@iowadot.us			

2-22	SHEET NUMBER C.O	



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FI	LE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22
3/27,	7/2024 9:08:16 AM	tammy.hau	ugen@iowadot.us			

2-22	SHEET NUMBER C.O	

SILT DIKES					100_15
Refer to EW-403					8/15/22
Line No.	Station From	Station To	Side	Length (LF)	Remarks

					-	
FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER	NHSX-222-2(22)-22-
3/27/2024 9:09:11 AM	tammy.ha	ugen@iowadot.us				

2-22	SHEET NUMBER C.O	

	TABUL	ATION OF	INT	ERCEPTI	ENG	DITCHES	100_16 8/15/22
Line No.	Station From	Station To	Side	Length (LF)		Remarks	

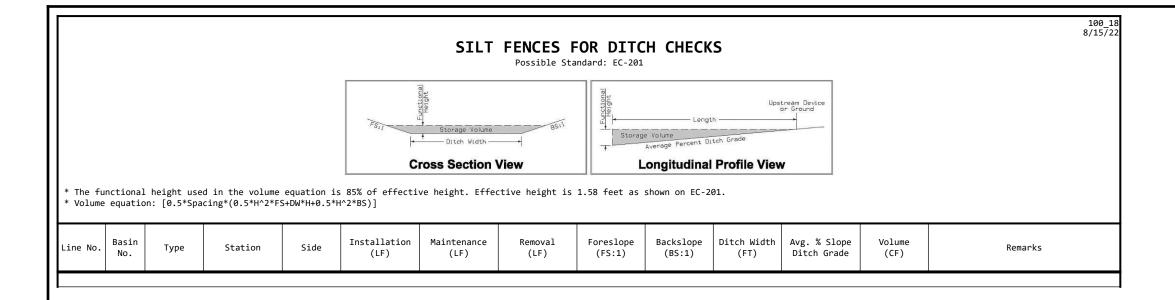
		-	· · · ·	
FII	LE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PR	ROJECT NUMBER NHSX-222-2(22)-22-
3/27/	/2024 9:09:34 AM	tammy.haugen@iowadot.us		

2-22	SHEET NUMBER C.O	

Line No. Station From Station To Side Length (FT) Remarks	

				1	
FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-
3/27/2024 9:09:57 AM	tammy.ha	ugen@iowadot.us			

2-22	SHEET NUMBER C.O	



		· · · · ·
FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-
3/27/2024 9:13:51 AM	tammy.haugen@iowadot.us	

2-22	SHEET NUMBER C.O	

	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE Possible Standards: EC-204							100_19 10/15/24
Line No.	Station From	Station To	Side	Sediment Control Device Type	Diameter Size	Length (LF)	Remarks	

ENGLISH DESIGN TEAM	Methods	CTORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22

2-22	SHEET NUMBER C.O	

		PLANTING	QUANTITIES LISTING				100_20 8/15/22
Line No.	Code	Botanical Names	Common Name	Size	Unit	Total	As Built Quantity

FILL FOR CULVERTS USED IN BRIDGE REPLACEMENTS

100_21 8/15/22

Possible Details: 4317 and 4318

Line No. Loc. Station Thickness Area Subdrain * Outlet * Side Granular Special Flowable Flooded (TN) (SY) (LE) (STA) (TON) (TON) (CY) (CY)	* Not a	bid item							
	Line No.		Station			Side			Remarks

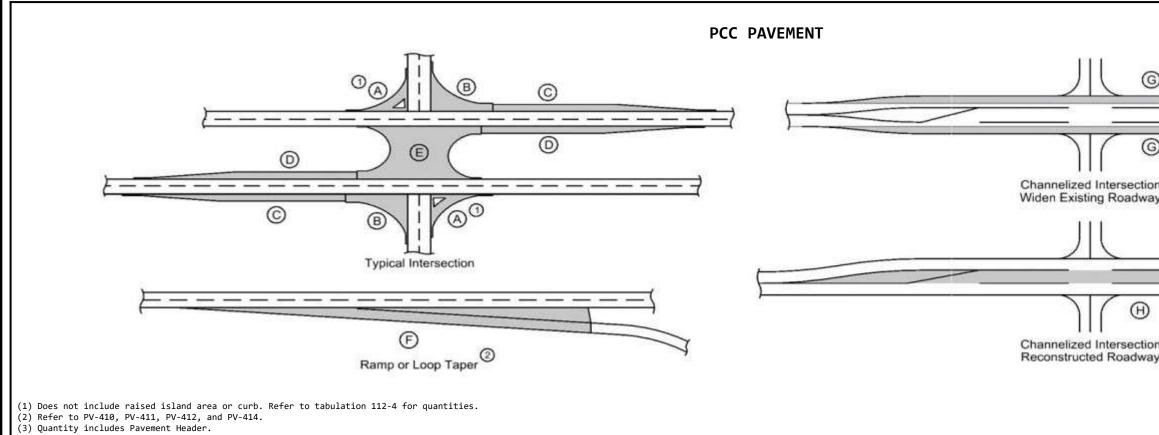
FILE NO. ENGLISH DESIGN TEAM Methods STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22	3/27/2024 9:15:50 AM	tammy.hau	gen@iowadot.us		
		ENGLISH	DESIGN TEAM Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-2

2-22	SHEET NUMBER C.O	

					ROSION 01, EC-103 a		OL					100_22 8/15/22
Line No.	Road Identification	Station From	Station To	Side	Length (FT)	Width (FT)	TRM Type (EC-104)	TRM Quantity (Squares)	Slope Protection (EC-103) (Squares)	Special Ditch Control (EC-101) (Squares)	Remarks	
<u></u>]
TLE NO.	ENGLISH DESIGN TEAM MC	thods								STORY COU	NTY PROJECT NUMBER NHS	SX-222-2(22)-2

2-22	SHEET NUMBER C.O	

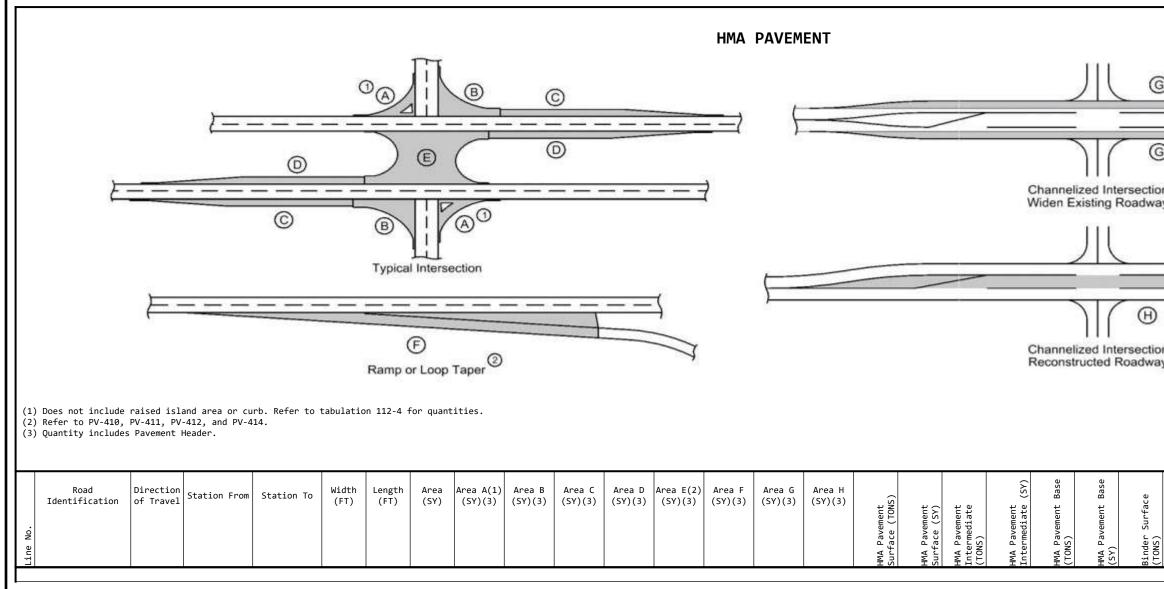
					ROC Refe	CK EROS r to EC-301	and Detail	DNTROL 570-8					100 8/15
TIE NO. ENGLINA JESUIGA LINA Methods STORA COTAL MODELL ANDRE WH2X-552-5(55)	Line No.	Road Identification	Station From	Station To	Side	Length (FT)	Width (FT)	Rock Erosion Control Type	Fabric	Revetment	Stone	Rema	ırks
LE 10. ΙΝΕΙΣΗ ΙΣΣΙΟΝ ΤΕΛΙ Methods ΣΤΟΡΥ COUTY PROJECT NUMBER NHSX-222-2(22)													
LLE NO. BERLISH DESIGN TEM Methods													
LE NO. ENGLISH DESIGN TEAM Methods STORY COUNTY PROJECT MUMBER MH5X-222-2(22)													
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LE NO. ENGLISH DESIGN TEAM Methods													
LE NO. ENGLISH DESIGN TEAM Methods STORY COUNTY PROJECT NUMBER NHSX-222-2(22)													
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	FILE NO.	ENGLISH DESIGN TEAM	lethods						STO	DRY COUNTY	Y PROJECT	NUMBER NHSX-	222-2(22



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FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-
4/22/2024 6:28:06 AM	tammy.ha	ugen@iowadot.us			

3 on ay					100_24 10/15/24
		Γ			
r Grid Y)	Special Backfill (TON)	Modified Subbase (CY)	Granular Subbase (SY)	Remarks	

2-22 SHEET NUMBER C.0	
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FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-22 SHEET NUMBER	c.0
4/22/2024 6:28:38 AM	tammy.haugen@iowadot.us		

3) ay								
эп								
	Binder Intermediate (TONS)	Binder Base (TONS)	Polymer Grid (SY)	Special Backfill (TONS)	Modified Subbase (CY)	Granular Subbase (SY)	Pavement Scarification (SY)	Remarks
			E E E E E E E E E E E E E E E E E E E	<u>s</u>		5)		

	Special or unique items when	re method of measure	INC: ement / basis of	IDENTAL ITE payment is not indi	MS cated in the specifications or other contract d	100_26 8/15722 ocuments.
Line No.	Incidental Item	Unit	Quantity	Incidental to Item Code	Incidental to Item	Remarks

				-		
FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER	NHSX-222-2(22)-22-2
3/27/2024 9:21:58 AM	tammy.hau	ugen@iowadot.us				

2-22	SHEET NUMBER C.O	

	PR	OPOSED P	OSTED SP	EED LIM	IT	100_27 8/15/22
Line No.	Roadway Identification	Station From	Station To	Proposed Posted Speed	Remarks	

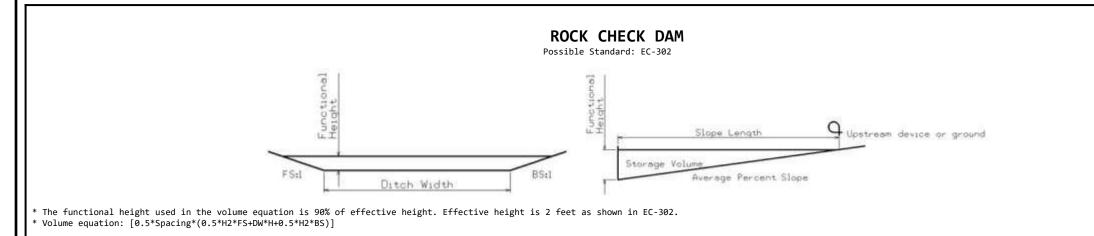
FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-
3/27/2024 9:23:44 AM	tammy.haugen@iowadot.us		

2-22	SHEET NUMBER C.O	

	L	ONGITUDI	NAL GROOVING	100_2 8/15/2
Line No.	Location	Total (SY)	Remarks	

FILE NO.	 DESIGN TEAM Method			NHSX-222-2	

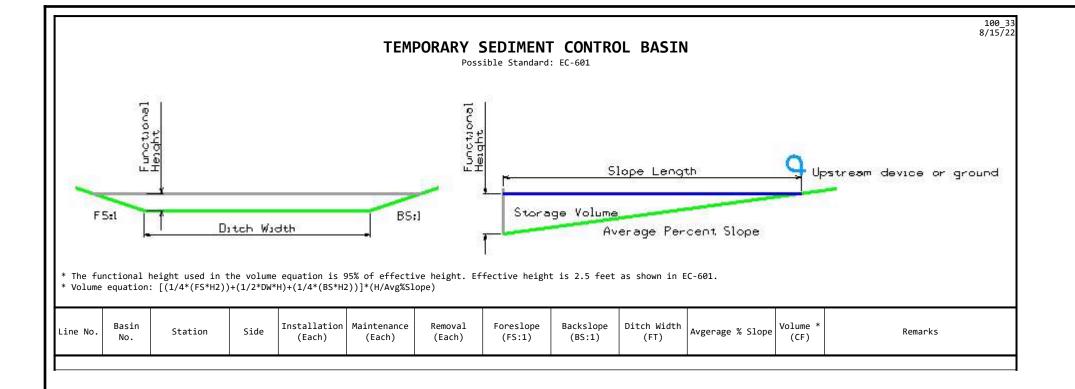
2-22	SHEET NUMBER C.O	



Line No.	Basin No.	Station	Side	Offset	Installation (LF)	Maintenance (Each)	Removal (Each)	Foreslope (FS:1)	Backslope (BS:1)	Ditch Width (FT)	Avg. % Slope	Volume (CF)	Remarks

FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-22	SHEET NUMBER C.0	
3/27/2024 9:24:28 AM	tammy.haugen@iowadot.us				

100_32 8/15/22			
4			
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FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-
3/27/2024 9:24:47 AM	tammy.haugen@iowadot.us	

2-22	SHEET NUMBER C.O	

		STORMWATER DRAINAGE BASIN Refer to EC Standards and 570s Details.											8,	/15/22	
Lin	e No. Basi No.	Station From	Station To	Side	Discharge Station	Discharge Side	Ano.2	Disturbed Area with Storage Provided (ACRES)	Disturbed Area without Storage Provided (ACRES)	Best Management Practice	Total Storage Volume Provided (CF)	Total Storage Volume Required (CF)	Storage Volume Met	Remarks	

FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-22 SHEET NUMBER C.0	
2/27/2024 0.26.22 AM	tammy baugandiawadat us		

OPEN-THROAT CURB INTAKE SEDIMENT FILTER Possible Standard: EC-602										
Line No.	Station	Side	Installation (LF)	Maintenance (Each)	Removal (Each)	Remarks				

FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22
3/27/2024 9:26:36 AM	tammy.ha	ugen@iowadot.us			

2-22	SHEET NUMBER C.O	

	GRATE INTAKE SEDIMENT FILTER BAG Possible Standard Road Plan : EC-604 .ine No. Location Station Side Installation (Each) Maintenance (Each) Removal (Each)								
Line No.		Side				Remarks			

FILE NO.	ENGLISH DESIGN	TEAM Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-
3/27/2024 9:26:56 AM	tammy.haugen@iowado		51001	

2-22	SHEET NUMBER C.O	

SECTION

101

Design Information

NO.	DATE	TITLE
101-4	04-30-02	Rural Design Designation
101-5		Urban Design Designation
101-6	04-30-02	
101-7		Interstate Design Designation
101-8		Wedge Course for Superelevated Curves
101-10		Painted Islands
101-16		Alignment Coordinates
101-17	04-19-11	
101-18	04-19-22	Superelevation Data

			101-4 04-30-02
DESI	GN I	DATA	RURAL
20 20 20 TRUCK Total Design	AADT AADT DHV S n ESALs	 	V.P.D. V.P.D. V.P.H. X

	101-5
	04-30-02
DESIGN	DATA URBAN
20 AADT	V.P.D.
20 AADT 20 DHV	V.P.D. V.P.H.
TRUCKS	%
Total Design ESAL	s

						C	101-6 04-30-02							
DESIGN DATA														
	RURAL URBAN													
20 20 20 TRUC Tota Desig			_ V.P.D. _ V.P.D. _ V.P.H. _ %	20 20 20 TRUC Tota Desig			V.P.D. V.P.D. V.P.H. %							

		101-7 04-30-02
_	DESIG	N DATA HIGHWAY
20 20 20 TRUC Tota Desig		V.P.D. V.P.D. V.P.H. %

* 0	id Ite												WED	DGE COUR	REFOR Refer to De	SUPERELE	VATED C	URVES								1/17/24
Li	.ne	PC Station	PT Station	Radius (FT)	g Cross S Slope at PC/ PT (%)	Wi	Wo (FT)	e (%)	L (FT)	x (FT)	Y (IN)	m (FT)	PC Station Section A-A	PC Station Section B-B	PC Station Section C-C	PC Station Section D-D	PC Station Section E-E	PT Station Section E-E	PT Station Section D-D	PT Station Section C-C	PT Station Section B-B	PT Station Section A-A	Omit Base Widening Unit	HMA Wedge* (TONS)	Shoulder Fill Incl. 60% Shrink (CY)	Remarks
			•													• 							·			

FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-22	SHEET NUMBER G.O
2/27/2024 0.22.40 44			

101_08 1/17/24

Offsets are	located from mainline.			PAINTED Refer to PM-110, 5	ISLANDS 60-5, and 108-22.				101_10 1/17/24
Line No.	Road Identification	Point A Station	Point A Offset (FT)	Point B Station	Point B Offset (FT)	Point C Station	Point C Offset (FT)	Remarks	
								·	
FILE NO.	AM tammy.haugen@iowadot.us						S	TORY COUNTY PROJECT NUMBER	NHSX-222-2(22)-22

2-22	SHEET NUMBER G	.0	

																		101_16 1/17/24
	ALIGNMENT COORDINATES																	
Line No.	Name	Location	Poin on Tangent Station	Point on Tangent Y Northing	Point on Tangent X Easting	Begin Spiral Station	Begin Spiral Y Northing X Easting	Begin Curve Station	Begin Curve Northing	VIRAGIN CUNVA Y	PI or Master	Simple Curve PI or Master PI Y Northing PI X Easting	End Curve Station	End Curve Y Northing	End Curve X Easting	End Spiral Station	End Spiral Y Northing	End Spiral X Easting

							SPIR	AL OR CI	RCULAR	CURVE DA	ТА						101_17 1/17/24
Line No.	Name	Location	SCS	S	Ls	Ts	Es	Xc	Yc	L.T.	S.T.	C	т	L	R	E	Remarks
FILE NO. 3/27/2024 9:37:1		NGLISH DESIGN TEAM	Methods						S	TORY COUNTY	PROJECT NUM	BER NHSX-222	-2(22)-22	2-22	SHEET NU	^{MBER} G.0	

	SUPERELEVATION DATA See PV-300 Series		101_18 2/28/24
Line Road Circular Curve or Spiral Curve (FT) (%) (FT) (FT) (FT) Road Plan Section A-A Section A'-A'	ion B-B Section C'-C' Section C-C Section D-D Case A Case	B Case C Case S Case T Case U Remarks	

	- i		
FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-22 SHEET NUMBER G.O	
	Methods		
3/27/2024 9:37:38 AM	tammy.haugen@iowadot.us		

101	18
2/287	24

Access and Maintenance Data

NO.	DATE	TITLE
102-3	10-15-24	Access Points and Safety Ramps
102-4	08-15-22	Locations of Road Closure Barricades
102-5	09-29-23	Existing Pavement
102-5A	09-29-23	Existing HMA Pavement for Recycling
102-6C	11-14-23	Full Depth Patches
102-10	10-15-24	Partial Depth PCC Finish Patches
102-11		Partial Depth Regular HMA Finish Patches
102-12	08-15-22	Partial Depth Irregular HMA Finish Patches
102-14	08-15-22	Partial Depth HMA or PCC Repair Patches
102-16	08-15-22	Notches and Runouts for Resurfacing
102-17	10-15-24	•

ACCESS POINTS AND SAFETY RAMPS

Refer to Cross-Sections

Length of Unclassified Pipe calculated is based on using Corrugated Metal Pipe. (1) Refer to MI-210. (2) Refer to EW-501. (3) Refer to EW-501 or EW-502. *Predetermined for access point not constructed with this project.

		Line No.	Station	Side	Access Type	Descriptor	Case	Curb Type	Curb Length (1) (LF)	Width (FT)	PR (1) (2) (FT)	SR (2) (FT)	Pipe Culvert (H) (3) (FT)	Pipe Culvert Size (3) (IN)	Culvert Length (3) (LF)	Pipe Culvert Lt. (3) (LF)	Pipe Culvert Rt. (3) (LF)	Culvert Aprons (3) (No.)	Driveway Surface Type	Driveway Surface Area (SY)
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		· · · · · · · · · · · · · · · · · · ·
FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-22 SHEET NUMBER C.0
4/22/2024 6:30:48 AM	tammy.haugen@iowadot.us	

		102_03 10/15724	
way ice a)	Driveway Surfacing Material (TON)	Remarks	

Line No. No. Station Width (LF) SI-181 SI-182 Remarks		L	OCATIONS	SI-181 an	BARRICADES	102_04 8/15/22
	Line No.	No.	Station	 	 Remarks	

FILE NO. ENGL	ISH DESIGN TEAM Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-

2-22	SHEET NUMBER C.O	

																				102_05 9/29/23
										EXIS	STINC	G PA\	/EMENT							
Lin	ne No. County	Route Direction of Travel	Begin Ref. Location Sign	End Ref. Location Sign	Year	Туре	Project Number	Surface Type	Surface Depth Base (IN)	e Type 🛛 De	ase s pth IN)	Subbase Type	Subbase Depth (IN)	Removal Type	Removal Depth (IN)	Coarse Aggregate Source	Coarse Aggregate Type	Course Aggregate Reinforcement Durability Type Class	Remarks	

For info	rmatio	nal purpo	ses only. When	designed	RAP is	s specifi	ed, proces	s the	RAP to	EXI control t	STING HMA PAVE the uniformity of the final	MENT FOR	RECYC	LING						102_05 9/29/2
Line No.	Route No.	e	Location	Year Place	ed	Layer	Thicknes	As s Bi G	phalt inder irade	Asphalt Binder Content	Description	Quality Type	Size	Content	% of -4 that is Type 2	% of +4 that is Type 2	% of +4 that is Type 3	% of +4 that is Type 4	% Crushed	% Limestone
ILE NO. 27/2024 9:48			ENGLISH DESI	GN TEAM	Me	ethod	S							ST	ORY COUNTY	PROJECT NU	MBER NHSX	-222-2()	22)-22-	-22

									FULI	-DEPTH	PATCHE	S									102_06C 4/4/24
Line No.	Count	Station	Reference Location Sign	Lane	Length (FT)	Width (FT)	Patch Thickness (IN)	Patch Repair or Finish		PCC Patch Quantity (SY)	HMA Patches (SY)	Composite HMA (TON)	Subbase Patches (PR-140) (SY)	Subbase Patch with 'EF' Joint (PR-101) (SY)	Patch Subdrain PR-101 or PR-140 (No.)	'CD' Joints (No.)	'CT' Joints (No.)	'EF' Joints PR-101 (No.)	Anchor Lugs Removal (No.)	Remark	s
	l l				· · · · ·				<u>.</u>							1	1				
FILE NO.	27 AM		DESIGN TEAM	Methods	6						STORY	COUNTY P	ROJECT NUM	MBER NHSX-2	222-2(22)-2	22-22		SHEET NUMBER	C.0		

						PARTIAL	DEPTH F	PCC FINI	SH РАТСНЕ	S			102_10 10/15/24		
		1			1		Possible Sta	andard: PR-107		7.1.4	Teint and				
ne No.	Road Identification	Station From	Station To	Lane	Side	Patch Length (FT)	Patch Width (FT)	Finish Patche (No.)	s Finish Patche (SF)	S Joint and Crack Repair Patches (No.)	Joint and Crack Repair Patches (LF)	Remarks			
NO.	ENG	ISH DESIGN T	EAM Metho	de						STO	RY COUNTY PROJE	v/		SHEET NUMBE	R C O

		PART	TAL [DEPTH	REG	ULAR H	MA FIN	ISH PATCHES		102_11 9/29/23
Line No.	Station	Reference Location Sign	Lane	Patch Length (FT)	Patch Width (FT)	Estimated Area (SY)	Estimated Quantities (TONS)		Remarks	

FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22
3/27/2024 9:49:59 AM	tammy.haugen@iowadot.us	

2-22	SHEET NUMBER C.O	

				PARTIAL D	EPTH IRREG	ULAR	HMA FI	INISH	PATCHES	102_12 8/15/22
Li	ne No.	Station From	Station To	Begin Ref. Location Sign	End Ref. Location Sign	Lane	Est. Number of Patches	Est. Area (SY)	Est. Quantity (TON)	Remarks

	_			
FILE NO.	ENGLISH	DESIGN TEAM Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-
3/27/2024 9:50:58 AM	tammy.hau	gen@iowadot.us		

2-22	SHEET NUMBER C.O	

				PARTIAL DEI	ртн н				ратсн	FS		16 8/2	02_1 15/2
ne No.	Station From	Station To	Begin Ref. Location Sign	End Ref. Location Sign	Lane	Туре	Patch Length (FT)	Patch Width (FT)	Estimated PCC Area (SF)		Estimated HMA (TONS)	Remarks	
									·				

FILE NO.	ENGLISH		Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22
3/27/2024 9:51:18 AM	tammy.ha	ugen@iowadot.us			

102_16 8/15/22

NOTCHES AND RUNOUTS FOR RESURFACING

Refer to PR-201 and PR-202.

(1) Bid item. Applies only to Types 'N1' and 'N3' on PR-202. Refer to 100-25 for remaining values.

Line No.	Station	Type of Notch or Runout	S (IN)	I (IN)	DI (IN)	L (FT)	M (IN)	Pavement Scarification (SY) (1)	Remarks

FILE NO.	ENGLISH	DESIGN TEAM Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-
3/27/2024 9:51:46 AM	tammy.ha	igen@iowadot.us		

2-22	SHEET NUMBER C.O	

Refer to F	PR-109				CR0	CROSS STITCHING						
Line No.	Roadway Identificatio	on	Side	Station From	Station To	Length (FT)	Existing Pavement Thickness (T) (IN)	Cross-Stitched Tie Bar (EA)	Remarks			
										I		
											-	
ILE NO.	E	NGLISH	DESIGN TEA	Metho	ds					STORY COUNTY	PR	

NUMBER NHSX-222-2(22)-22 methous JIUNI 4/22/2024 6:32:56 AM

2-22	SHEET NUMBER C.O	

SECTION

Soils Data

Soils Data	1		103
NO.	DATE	TITLE	
103-1	08-15-22	Embankment with Moisture and Density Control	
103-3	08-15-22	Proposed Subgrade Treatment	
103-5	08-15-22	Settlement Plates	
103-6	08-15-22	Embankment with Moisture Control	
103-7	08-15-22	Shrinkage Data	
103-10	08-15-22	Topsoil Stripping and Placement	
103-11	08-15-22	Select Treatment	
103-12	08-15-22	Slide Repair	
			SECTION

Drainage Structure Data

Drainage	Structure	Data	104
NO.	DATE	TITLE	
104-3	08-15-22	Drainage Structure By Road Contractor	
104-4	08-15-22	Roadway Items for Drainage Structures Installed by Culvert Contractor	
104-5A	08-15-22	Intakes and Utility Accesses	
104-5B	08-15-22	Storm Sewer	
104-5C	08-15-22	List of Subdrain Work	
104-6	08-15-22	Wick Drain or Sand Drain Fields	
104-8	08-15-22	Bridge End Drains	
104-8A	08-15-22	Scour Protection or Rock Flume for Bridge End Drain	
104-8B	08-15-22	Bridge End Drains (with Letdown)	
104-9A	12-08-22	Longitudinal Subdrain Shoulder	
104-9B	09-14-23	Longitudinal Subdrain Backslope	
104-9C	08-15-22	Longitudinal Subdrain Bridge Berm	
104-10	04-16-24	Adjustment of Fixtures	
104-11	08-15-22	Rebuilding of Intakes and Utility Accesses	
104-12	08-15-22	Subdrain and Grading at Side Piers	
104-13	08-15-22	Foreslope Flattening and Drainage Structures by Road Contractor (Mainline Pipes)	
104-14		Linear Trench Drain	

			EMI	BANKMI	ENT WI	TH MOISTUR	RE AND DENSITY	CONTROL	103_01 8/15/22
L	ine No.	Station From	Station To	Lane	Depth (FT)	Compact (CY)		Remarks	

FILE NO.	ENGLISH DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22

2-22	SHEET NUMBER C.O	

								PROPOSED SUE For Additional Details	GRADE see Soils S	TREATM	ENT ets.				1 8/	103_03 /15/22
Line No	. Station From	Station To	Side	Туре	Width (FT)	Depth (FT)	Area (SF)	Material Type	Shrink %	Quantity (CY)	Quantity (TON)	Polymer Grid (SY)	Available Quantity (CY)	Available Location or Station to Station	Remarks	
												-				
FILE NO. 3/27/2024 10:0	. E 00:34 AM	NGLISH DESIGN	IEAM N	lethods						STORY COL	JNIY PROJEC	I NUMBER	NHSX-222-	2(22)-22-22	SHEET NUMBER CS.0	

			EMENT PL		8/15/22
Line No.	Station	Side	Offset	Remarks	

FILE NO.	ENGLISH	DESIGN TEAM Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-
3/27/2024 10:00:57 AM	tammy.ha	igen@iowadot.us		

2-22	SHEET NUMBER C.O	

			8/15/2
EMBANKMENT	WITH	MOISTURE	CONTROL

	-						
FILE NO.	ENGLISH DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER	NHSX-222-2(22)-22-22	SHEET NUMBER CS.0	
3/27/2024 10:01:26 AM	Uaœm y¤ bme gen@iowadot.us						

SF	IRINKAGE DA	103_07 8/15/22
Material	%	Remarks

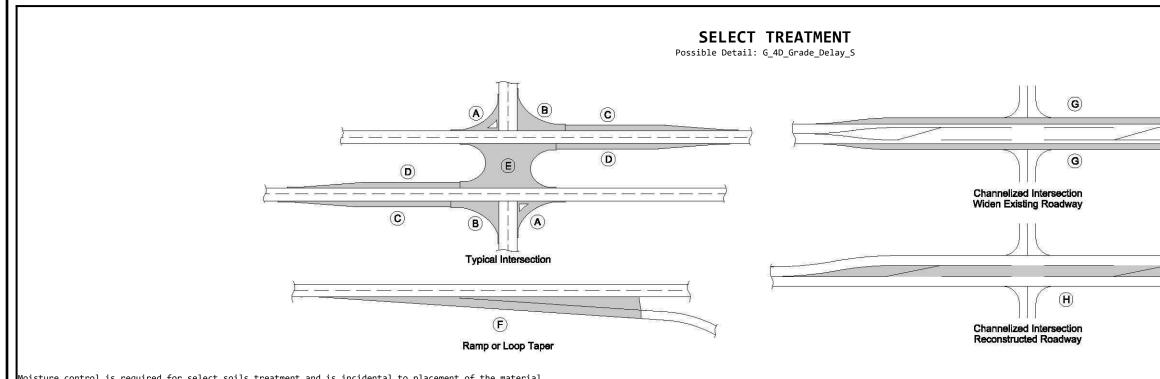
		· ·
FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-
3/27/2024 10:01:51 AM	tammy.haugen@iowadot.us	

2-22	SHEET NUMBER C.O	

				TOPSOIL	STRIPPIN	G AND PLACE	MENT		103_10 8/15/22
Line	No. F	Road Identification	Dir. of Traffic	Station From	Station To	Topsoil Stripping Thickness (IN)	Topsoil Placement Thickness (IN)	Remarks	

FILE NO.	ENGLISH DESIGN TEAM	Methods	CTORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-

2-22	SHEET NUMBER C.O	



Moisture control is required for select soils treatment and is incidental to placement of the material.

(FT) (FT) (FT) (FT) (FT) (FT) (FT) (GO) (FT) (X) (IN) (SF) (A) (B) (C) (D) (E) (F) (G)
--

		· · · ·	
FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-22	SHEET NUMBER CS.0
3/27/2024 10:02:44 AM	tammy.haugen@iowadot.us		

SectionTotalTotal AreaSelectFurnishedAreaSectionML+SectionTreatmentSelectRemarks(H)Area (SF)(SF)(Y1) (IN)(CY)Remarks	

										SLI	DE REPA	IR				
Line No. Site	<u> NO.I</u>	rom	Station To	Side	Class 13 Excavation Waste (CY)	Embankment-in- Place (CY)	Excavation Class 10 Roadway and Borrow (CY)	Excavation Class 10 Waste (CY)	Class "E" Revetment (TON)	Engineering Fabric (SY)	Erosion Stone (TON)	Gra. Material Blankets and Subdrain (CY)	Macadam Stone Slope Protection (SY)	Topsoil Furnish and Spread (CY)	Topsoil Strip Salvage and Spread (CY)	

1				
1				
FILE NO. EN	ENGLISH DESIGN TEAM	Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-22	SHEET NUMBER C.O

103_12 8/15/22

Remarks

DRAINAGE STRUCTURE BY ROAD CONTRACTOR Length of unclassified pipe calculated is based on using Reinforced Concrete Pipe. * Not a bid item (1) Diameter or equivalent diameter (2) UNCL = Unclassified Pipe CMP = Corrugated Metal Pipe RCP = Reinforced Concrete Pipe LCP = Arch or Elliptical Low Clearance Pipe SARC = Steel Arch Pipe (3) Backfill according to DR-101

Drainage Area Drainage Area (ACRE) Size (IN) (ACRE) Size (IN) (ACRE) Size (IN) (ACRE) Size (IN) (I) Size (IN)	Remarks
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	-	· · · · · · · · · · · · · · · · · · ·		
FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-22	SHEET NUMBER C.0	
3/27/2024 10:10:10 AM	tammy.haugen@iowadot.us			

104_03 3/18/24

t a Bid It Backfill a	tem according to DR	3-111			R	OADWAY	ITEMS	FOR DRAIN	IAGE STRU	CTURES 1	INSTALLI	ED BY CULV	ERT CONTRACTOR					8/
ocation	Design No.	Size	Kind	Dike Dike Lt. Rt.	Dike Station	Dike Top Elevation	Compac Dike Backf Type Adjac (CY	ent noise	Compaction w/ Moisture and Density (CY)	Floodable Backfill* (A) (CY)	Porous Backfill* (B) (CY)	Flooded Backfill (1) (A+B) (CY)	Excavation Type	Excav Quar (C	vation tity CY) Revetmer Type	t Revetment Quantity (TONS)	Engineering Fabric (SY)	Remarks
IO. 10:10:32 AM	ENGL	.ISH DESIGN TE	AM Metho	ds						S	TORY COU	INTY PROJECT NUM	BER NHSX-222-2(22)-	22-22	SHEET	NUMBER C	.0	

104_04 8/15/22

* Not a B ** For SW			INT	AKES AN	ND UTILI	TY ACCESSES	104_05A 8/15/22
Line No.	Location	Type or Standard Road Plan*	Form Grade Elev.	Bottom Well Elev.	Extension Length** (FT)	Remarks	

FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-
3/27/2024 10:10:47 AM	tammy.haugen@iowadot.us	

2-22	SHEET NUMBER C.O	

STORM SEWER

(1) Diameter or equivalent diameter
 * Bid Item
 ** For SW-54
 Pesign Length, Slope, and Flowlines are calculated from inside wall to inside wall along CL of pipe. An additional 2 ft length is added to each end of the Design Length to account for estimated length to center of structures.

Location StationOffsetType or Standard Road Plan*Form GradeBottom Well Elev.Extension Length**Notes	Number Access No. Access No. Class 'D' Size (1) Length* Leng	Design Length (FT)Slope %Connected Pipe Joint (DR-121)Flow Line InletFlow Line OutletPipe OtherPipe Profile Sheet No.Notes
--	--	--

		· · · · · · · · · · · · · · · · · · ·	
FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-22 SHEET NUMBER C.6	,
3/27/2024 10:11:29 AM	tammy.haugen@iowadot.us		

104_05B 8/15/22

LIST OF SUBDRAIN WORK

Possible Standards: DR-121, DR-201, DR-203, DR-301, DR-302, DR-303, DR-305 and DR-306. Possible Detail: 500-10.

* Not a bid item

Line No. Station From Station To Type of Installation Pipe Type Pipe Pipe Diameter (IN) Pipe Type Pipe Length Apron Type Apron Type Outlet Type Outlet Type Outlet Quantity Connected Pipe Joints Type* (DR-121) Connected Pipe Joints No.* (LF) Granular Blanket Backfill* Crushed Stone* (CY)	Remarks
---	---------

FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-22 SHEET NUMBER C.0
3/27/2024 10:12:02 AM	tammy.haugen@iowadot.us	

104_050 8/15/22

WICK DRAIN OR SAND DRAIN FIELDS

Possible Standards: DR-301 and DR-305, Detail 500-10, and Tabulation 104-5C.

* Not a bid item.

FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-2
3/27/2024 10:12:24 AM	tammy.ha	augen@iowadot.us			

		10 8/1	4_0 .572	6 2
s				
2				

BRIDGE END DRAINS 1. Refer to Standard Road Plan SW-538											
Line No.	Bridge Station	Bridge Corner	Distance DI-1 or DI-2 (1) (FT)	Form Grade Elevation	A Elevation	B Elevation	C Elevation	L1 Length	L2 Length	Remarks	

FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-22	22-2(22)-22
3/27/2024 10:12:47 AM	tammy.haugen@iowadot.us		

2-22	SHEET NUMBER	C.0	

104_08A 8/15/22

SCOUR PROTECTION OR ROCK FLUME FOR BRIDGE END DRAIN

Refer to Standard Road Plan DR-401 and DR-402

l												
	Line No.	Bridge Station	Bridge Corner	Distance DI-1 or DI-2 (FT)	Bridge End Drain Type	Special Ditch Control, Wood Excelsior Mat EC-101 (SQ)	Turf Reinforced Mat (TRM) Type 2 EC-104 (SQ)	Transition Mat EC-105 (SF)	Macadam Stone Base (TONS)	Engineering Fabric (SY)	Erosion Stone (TON)	Remarks

		_				
FI	LE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-
3/27	7/2024 10:13:41 AM	tammy.ha	ugen@iowadot.us			

2-22	SHEET NUMBER C.O	

1. Refer	to Standard Roa	ad Plan SW	- 539		BRI	DGE EN	id dra:	ENS (W	ITH LE	TDOWN))	1				104_08B 8/15/22
Line No.	Bridge Statior	Bridge Corner	Distance DI-1 or DI-2 (1) (FT)	Form Grade Elevation	A Elevation	B Elevation	C Elevation	D Elevation	E Elevation	L1 Length	L2 Length	L3 Length	L4 Length		Remarks	
		ł	1				I									
ILE NO.		ENGLISH	DESIGN TEAM	lethods									ST	ORY COUNTY	PROJECT NU	MBER NH

2-22	SHEET NUMBER C.O	

	LONGITUDINAL SUBDRAIN SHOULDER								D		1(1;	04_09A 2/8/22
* Not a l	bid item.		1				JUDDRAII		N			
Line No.	Road or Lane Identification	Station From	Station To	Side	Depth (IN) (D)	Subdrain Size (IN)	Length (FT)	Outlet Station	Outlet Type	Porous Backfill* (CY)	Remarks	
]
ILE NO.	ENGI	ISH DESIGN TE	AM Motho	de							STORV COUNTY PROJEC	T NUMBER NHSX-222-2(22)-
27/2024 10:15:		mmy.haugen@iowadot.us	Metho	u 5				1			SIUNT COMPT PROSEC	

2-22	SHEET NUMBER CS.6)

					N BACKSLOP	BACKSLOPE							
* Not a											Porous		
Line No.	Road or Lane Identificatio	e Stat	tion From	Station To	Side	Depth (IN) (D)	Subdrain Size (IN)	Length (FT)	Outlet Station	Outlet Type	Backfill* (CY)	Remai	rks
I													
FILE NO.		NGLISH	DESIGN TEAM	⁴ Metho	ds							STORY COUN	ITY PROJECT NUMBER

2-22	SHEET NUMBER CS.6)

Line No. Road or Lane Identification Station From Station To Side Depth (IN) (D) Side (IN) Length (FT) Outlet Station Outlet Type Porous* Class "A" Backfill (CY) Stone (CY)					LONG	ITUDIN	IAL SUBDRA	AIN BRIDG	E BERM				104_09C 8/15/22
	Line No.	Station From	Station To	Side			Length (FT)	Outlet Station	Outlet Type	Backfill	Crushed	Remarks	

FILE NO.	ENGLISH	DESIGN TEAM Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-
3/27/2024 10:16:25 AM	tammy.ha	ugen@iowadot.us		

2-22	SHEET NUMBER C.O	

					ADJUSTMEN	T OF FIXTUR	ES			104_10 4/16/24
Line No.	. Item No.	Location Station	Side	Distance	Type of Fixture			Adjustment		
			•							
FILE NO.		ENGLISH	DESIGN TEAM	Methods				STOR	PROJECT NUMBER	NHSX-22

2-22	SHEET NUMBER C.O	

			REBUILDING	OF INTAKES AND UTILITY ACCESSES	104_11 8/15/22
Line No.	Item No.	Location Station	Туре	Adjustment	

	-				
FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-
3/37/3034 10.10.EC AM	tommy has	uganQiaundat ug			

2-22	SHEET NUMBER C.O	

104_12 8/15/22

SUBDRAIN AND GRADING AT SIDE PIERS

Refer to DR-306 and EW-211

Lane(s) to which the pier is adjacent
 Not a Bid Item. Quantities assume a trench depth of 24 inches.

Line No.	Item No.	Direction of Traffic (1)	Station	Type No.	AL (LF)	TL (LF)	W (LF)	Outlet Location A	Outlet Location B	Precast Concrete Headwall DR-306 (No.)	4" Plastic Pipe (LF)	Porous Backfill (2) (CY)	Class "A" Crushed Stone (2) (CY)	Remarks

FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER	NHSX-222-2(22)-22-
3/27/2024 10:20:23 AM	tammy.ha	ugen@iowadot.us				

2-22	SHEET NUMBER C.O	

FORESLOPE FLATTENING AND DRAINAGE STRUCTURES BY ROAD CONTRACTOR (MAINLINE PIPES) Refer to Standard Road Plans DR-121, DR-122, and DR-213.

* Not a bid item

Line No. Location Existing Size of Culvert (IN) New Size of Culvert (IN
--

FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-22	SHEET NUMBER C.0
3/27/2024 10:20:40 AM	tammy.haugen@iowadot.us		

104_13 8/15/22

404	
104	14
	- T - T
8/15/	122
0/10/	~~

LINEAR TRENCH DRAIN

Possible Standard: SW-521

1. Bid It 2. Not a	em. bid item. Assum	es a 6" wide by	8" deep trer	ich.							
Line No.	Station From	Station To	Direction of Travel	Side	Length (1) (LF)	Curb	Curb Type	T (IN)	TC (IN)	PCC (2) (CY)	Remarks

				-	
FILE NO.	ENGLISH [DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22
3/27/2024 10:20:52 AM	tammy.hauge	en@iowadot.us			

2-22	SHEET NUMBER C.O	

105

106

Title Sheet Data

NO.	DATE		TITLE	
105-1	09-27-94	Mileage Summary		
105-3		Index of Sheets		
105-3 105-4	04-16-24	Standards		
				SECTION

Widening and Resurfacing (Stage Improvement)

NO.	DATE	TITLE
106-1	04-03-23	Strengthening Courses
106-2	08-15-22	Leveling Courses
106-4	08-15-22	Shoulders for Widening & Resurfacing
106-5	06-13-23	Areas For Pavement or Base Widening
106-7	08-15-22	Tabulation of Fabric Reinforcement for Control of Reflective Cracking
106-8	08-15-22	Longitudinal Joint Repair

-	MILEAGE SUMMAR	RY	105-1 09-27-9
Div.	Location	Lin. Ft.	Miles

	INDEX OF SHEETS	105-3 10-18-05
No.	Description	

105_04 4/16/24

STANDARDS

The following Standards apply to construction work on this project.

Number

Date

Title

FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER	NHSX-222-2	(22)-22
3/27/2024 10:26:45 AM	tammy.hau	gen@iowadot.us					

2-22	SHEET NUMBER C.O	

Line No. Begin Ref. End Ref. Station From Station To Runouts Back (LF) HMA Thickness (IN) (IN) (Tons)	STRENGTHENING COURSES								
	Line No.	Begin Ref. Location Sign	End Ref. Location Sign						

FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-2
3/27/2024 10:36:25 AM	tammy.hau	ugen@iowadot.us			

-22-22	SHEET NUMBER C.0	

	This Data	Entry Sheet fi	lls Tab 106-2.		LEVE	LING COU	JRSES	106_02 8/15/22
	Line No.	Begin Ref. Location Sign	End Ref. Location Sign	Station From	Station To	HMA Average Thickness (IN)	HMA (TONS)	Remarks
L								

FILE NO.	ENGLISH	DESIGN TEAM Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-

2-22	SHEET NUMBER C.O	

SHOULDERS FOR WIDENING & RESURFACING *Not a Bid Item

Line No.	Station From	Station To	Side	Shoulder Type	Length (STA)

FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22
3/27/2024 10:37:06 AM	tammy.ha	ugen@iowadot.us			

2-22	SHEET NUMBER C.O	

AREAS FOR PAVEMENT OR BASE WIDENING W

(1) Bid Item
 (2) Estimated for two applications to achieve lifts and one application of 0.10 Gal/SY adjacent to existing pavement. Priming of subgrade or finished base is not required.

	FILE NO.	Comparison Story county PROJECT NUMBER NHSX-222-2(22)-22-22 SHEET NUMBER C.Ø	
-	3/27/2024 10:37:29 AM	uy.haugen@iowadot.us	

				_
			106_0 6/1372	5
n	Special Backfill Unit Weight (lbs-cf)	Special Backfill (1) (TONS)	Remarks	

TABULATION OF FABRIC REINFORCEMENT FOR CONTROL OF REFLECTIVE CRACKING						
Line No.	Station From	Station To	Side	Width (LF)	Area (SY)	

FILE N	NO. E	NGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER	NHSX-222-2(22)-22
3/27/2024	10:37:47 AM	tammy.hau	ugen@iowadot.us				

-22	SHEET NUMBER C.	.0	

	LONGITUDINAL JOINT REPAIR							
Li	.ne No.	Station From	Station To	Length (FT)	Side	Width (IN)	Pay Length (LF)	Remarks

2-22	SHEET NUMBER C.O	

107

Earthwork and Excavation Data

NO.	DATE	TITLE
107-7	08-15-22	Shoulder Material Availability
107-22	08-15-22	
107-23	08-15-22	Grading for Guardrail Installations
107-24	08-15-22	
107-25		Tabulation of Rock Splitting
107-28	08-15-22	Tabulation of Template Quantities and Adjustments
107-31	08-15-22	Plowing and Shaping

S	HOULDER	MATERIAL	AVAIL	ABILITY AREAS
Line No.	Station From	Station To	Side	Estimated Quantity Availability (CY)

FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-2
3/27/2024 10:41:57 AM	tammy.haugen@iowadot.us	

2-22	SHEET NUMBER C.O	

	Refe	WING r to Standard Ro		.0.	107_22 8/15/22
Line No.	Station	Top Elevation	Length (FT)	Bridge Skew	Earthwork (CY)

FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22
3/27/2024 10:42:20 AM	tammy.ha	ugen@iowadot.us			

-22	SHEET NUMBER C.0	

GRADING FOR GUARDRAIL INSTALLATIONS

Refer to EW-301.

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

Line No.	Direction of Traffic (1)	Station	n Side	Foreslope at Guardrail	X1 (FT)	Y1 (FT)	X2 (FT)	Y2 (FT)	X3 (FT)	Y3 (FT)	X4 (FT)	¥4 (FT)	Z (FT)	Excavation Class 10 (CY)	Embankment-in- Place (CY)	Remarks	
LE NO.	E	ENGLISH DI	ESIGN TEAM	Methods										ST	ORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-22	SHEET NUMBER C.0

	_
	1
107_23 8/15/22	
8/15/22	
	1

107_24 8/15/22

GRADING FOR HIGH TENSION CABLE GUARDRAIL INSTALLATIONS

Refer to Standard Road Plan EW-302

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

Į	(1) Lunc(5) co which inst		accirc:							
	Line No.	Direction of Traffic (1)	Station	Side	Foreslope at Guardrail	CA (FT)	CO (FT)	CT (FT)	Protection Length (CA+CO+CT) (FT)	Earthwork Type (CY)	Remarks

	FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER	NHSX-222-2(22)-22-
3,	/27/2024 10:42:51 AM	tammy.ha	ugen@iowadot.us				

2-22	SHEET NUMBER C.O	

	TABI	JLATION (OF ROCK	SPLITTING	107_25 8/15/22
No.	Station From	Station To	Side	Remarks	

			-	
FILE NO.	ENGLISH DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-
3/27/2024 10:43:10 AM	tammy, haugen@iowadot.us			

2-22	SHEET NUMBER C.O	

Refer to Standard Road	d Plans EW-1	LO1 and EW-1	02.			TAE	BULATIC	ON OF T	EMPLAT	E QUAN	TITIES	AND AI	DJUSTM	ENTS							107-28 04-21-15
				C	ut							Fill				Che	cks		Тор	soil	
	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]
				[3]/1.3	[1]-[2]-[3]	[5]/1.3	[4]+[6]	[3]+[5}		[18]-[2]	[9]+[10]			[11]+[12]+[13]	[14]-[7]					[19]/1.40	[20]-[18]
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		PLOWING Refer to Standa			107_31 8/15/22
Line No.	Station From	Station To	D (FT)	Remarks	

	-	1		1	
FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-2
3/27/2024 1:08:40 PM	tammy.ha	ugen@iowadot.us			

2-22	SHEET NUMBER C.O	

108

Lighting-Signing-Guardrail

NO.	DATE	TITLE
108-1	08-15-22	Lighting Installations
108-2	08-15-22	Electrical Ducts
108-2A	08-15-22	Listing of Lighting and Signal Work
108-8A	10-15-24	Steel Beam Guardrail at Concrete Barrier or Bridge Rail End Section
108-8B	08-15-22	Steel Beam Guardrail for Side Obstacle (Two-Way Protection)
108-8C	06-22-23	Steel Beam Guardrail for Side Obstacle (One-Way Protection)
108-8D	08-15-22	Steel Beam Guardrail at Railroad Signals
108-9A	08-15-22	High Tension Cable Guardrail
108-11A	08-15-22	Highway Lighting Data
108-12	08-15-22	Wire, Cable, and Connectors
108-13A	10-04-23	Safety Closures
108-15	08-15-22	Concrete Steps and Combined Concrete Steps and Retaining Wall Construction
108-16	08-19-22	Combined Concrete Sidewalk and Retaining Wall
108-18	08-15-22	Concrete Barrier at Median Locations
108-18B	10-17-23	Concrete Barrier at Side Locations
108-20	08-15-22	Concrete Barrier with MSE Wall
108-22	10-15-24	Pavement Marking Line Types
108-23A	08-15-22	Traffic Control Plan
108-23B	01-27-23	Traffic Control Closure Table(s)
108-24	08-15-22	Safety Grate Treatment
108-25	01-18-23	511 Travel Restrictions
108-26A	08-15-22	Staging Notes
108-27	08-15-22	Temporary Floodlighting Luminaries
108-28	08-15-22	Temporary Traffic Signals
108-29	08-15-22	Pavement Marking Symbols and Legends
108-30	04-16-24	Crash Cushions
108-33	08-15-22	Temporary Barrier Rail
108-34		Chevrons
108-35	08-15-22	Temporary Lane Separator System

		LIGHTIN	IG II	NSTA	LLAT]	IONS	108_01 8/15/22
Line No.	Location No.	Station	LI-101 Type	A	E (FT)	LI-201 Type	Remarks

FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER	NHSX-222-2(22)-22-
3/27/2024 1:12:02 PM	tammy.ha	augen@iowadot.us				

2-22	SHEET NUMBER C.O	

		ELECTR	ICAL	DUCTS	5	108_02 8/15/22
Line No.	Location	Conduit Type	Diameter (IN)	Length (FT)	Remarks	

FILE NO.	ENGLISH	DESIGN TEAM	Methods		STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-
3/27/2024 1:12:23 PM	tammy.ha	augen@iowadot.us				•

2-22	SHEET NUMBER C.O	

				LI	STING OF	LIGHTIN	G AND	SIGN	AL WO	108_02A 8/15/22 DRK
ine No.	Handhole No.	Handhole Station	Handhole Type	Conduit Line No.	Station From	Station To	Conduit Type	Diameter (IN)	Length (LF)	Remarks

DESIGN TEAM Methods	1	PROJECT NUMBER NHSX-222-2(22)-22

2-22	SHEET NUMBER C.O	

STEEL BEAM GUARDRAIL AT CONCRETE BARRIER OR BRIDGE RAIL END SECTION

Possible Standards: BA-200, BA-201, BA-202, BA-205, BA-206, BA-210, BA-211, BA-221, BA-225, BA-250, BA-260, LS-625, LS-626, LS-630, LS-635, SI-172, SI-173 and SI-211.

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

		· ·		
FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-22	SHEET NUMBER C.0	
4/22/2024 6:33:31 AM	tammy.haugen@iowadot.us			

108_08A 10/15/24

STEEL BEAM GUARDRAIL FOR SIDE OBSTACLE (TWO-WAY PROTECTION) Possible Standards: BA-200, BA-205, BA-206, BA-210, BA-211, BA-251, LS-625, LS-626, LS-631, SI-172, SI-173, and SI-211.

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

Line No.	Item No.	Lane (1)	Side	Station	OL (FT)	DO (FT)	ET (LF)	VT2A (LF)	VFA (LF)	VT1A (LF)	VT1T (LF)	VFT (LF)	VT2T (LF)	ET (LF)	BA-211 Station	BA-211 (Type)	SI-211 (Type)	SI-172 Type 1 White (EA)	SI-173 Type 2 OM2-2 (EA)			Steel Beam Guardrail BA-200 (LF)
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FILE NO.	ENGLISH DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-22	SHEET NUMBER C.O
3/27/2024 1:13:25 PM	tammy.haugen@iowadot.us				

am il)	Standard End Terminal (Type)	Standard End Terminal Count (EA)	Post Adapter BA-210 (EA)	Remarks

108_08B 1/30/24

. Lane(s) to wh:	ich the	e obstacl	le is adjacent	t.					STEEL	BEAM	GUARDI	RAIL FOR	SIDE	OBST	ACLE	(ONE	-WAY	PROTE	CTION)						108_080 3/14/24
Line No.	Item No.	Lane (1)	Side	Station	OL (FT)	DO (FT)	ET (LF)	VT2A (LF)	VFA (LF)	VT1A (LF)	VT1T (LF)	EA (LF)	BA-211 Station	BA-211 (Type)	SI-211 (Type)	Type 1	Type 2	Type 3	SI-173 Type 3 OM3-R (EA)	Steel Beam Guardrail BA-200 (LF)	W-Beam End Anchor BA-203 (EA)	Standard End Terminal (Type)	Standard End Terminal Count (EA)	Post Adapter BA-210 (EA)		Remarks	
LE NO.				H DESIGN TE	-ΔΜ Β.4	0+6									C	TODY		PROJECT						CHEE			
2024 1:14:4	15 PM			haugen@iowadot.us		ethod	12								2	IUKY	COONTT	. NOJECI	NORDEN		222-2()	22)-22	- 2 2		T NUMBER C.O		

108_08C 3/14/24 108_08D 8/15/22

STEEL BEAM GUARDRAIL AT RAILROAD SIGNALS

Possible Standards BA-200, BA-204, BA-205, BA-253, LS-625, LS-633, SI-172, SI-173 and SI-211.

Lane(s) to which the obstacle is adjacent.

Line No.	Item No.	Lane (1)	Station	DO (FT)	VT 34.375' (LF)	ET (LF)	SI-211 (Type)	SI-172 Type 1 White (EA)	SI-173 Type 2 OM2-2 (EA)	SI-173 Type 3 OM3-L (EA)	SI-173 Type 3 OM3-R (EA)	Thrie-Beam End Anchor BA-204 (EA)	Standard End Terminal (EA)	Remarks
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FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-
3/27/2024 1:15:33 PM	tammy.haugen@iowadot.us	

2-22	SHEET NUMBER C.O	

108_09A 12/15/23

HIGH TENSION CABLE GUARDRAIL

Refer to BA-351.

1.	Lane(s)	to	which	the	installation	is	adjacent.
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			-								
Line No.	Item No.	Lane (1)	Station	Side	Offset DO (FT)	Approach CA (FT)	Obstacle CO (FT)	Trailing CT (FT)	Protection Length (CA+CO+CT) (FT)	End Anchor (EA)	Remarks

FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-

2-22	SHEET NUMBER C.O	

HIGHWAY LIGHTING DATA

108_11A 8/15/22

FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER	NHSX-222-2(22)-2
3/27/2024 1:16:12 PM	taenynaa	∎egen@iowadot.us				

-22-22	SHEET NUMBER C.0	

WIRE, CABLE AND CONNECTORS
Line No. Circuit Number View Connector Type Quantity Connector Type Quantity (EA) Quanti

Refe	SAFET r to Section 2518 o	Y CLOSURES f the Standard Spec	10	08_13A 0/4/23
Station	Road Closure Qty.	Hazard Closure Qty.	Remarks	

FILE NO.	ENGLISH DESIGN TEAM	ethods	PROJECT NUMBER NHSX-222-2(22)-22

2-22	SHEET NUMBER C.O	

			CONCR	ETE S	TEPS AI	ND COM	IBINED	CONCR	ETE STEPS	AND R	ETAIN	ING WALL C	CONSTRUCTIO	108_ 8/157	.5 22
Line No.	Station	Side	Step Width	Step Height	Required Steps	Lugs (No.)	Landings (No.)	Landings (LF)	Retaining Wall (No.)	Concrete (CY)	Steel (LB)	Handrail Length (LF)	Handrail Post Number	Remarks	
ILE NO.		ENGLISH	DESIGN T	⁻ EAM M €	thods								STORY COU	NTY PROJECT NUMBER NHSX-2	22-2

2-22	SHEET NUMBER C.O	

Line No. Station From Station To						СОМВ	INED C	ONCRET	E SIDE	WALK A	ND RET	AINING	WALL			108_16 8/19/22
	Lir	ne No.	Station From	Station To	Side	Retaining	Wall Height 1	Wall Height 2	Wall Thickness	Width 1	Width 2	Thickness		Footing Concrete	Backfill	Reinforcing Steel (LB)

	· ·	· · · · · · · · · · · · · · · · · · ·
FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22
3/27/2024 1:19:11 PM	tammy.haugen@iowadot.us	

2-22	SHEET NUMBER C.O	

108_18 8/15/22 See BA-100, BA-101, and BA-102.											
Line No.	Item No.	Station From	Station To	Standard Road Plan	BA-100 or BA-102 (LF)	BA-101 (EA)	Footing (LF)	Remarks	Expansion Joint Station	Expansion Joint Side	Expansion Joint Remarks
LE NO.			DESIGN TEAM	Method	ls					STORY COUN	ITY PROJECT NUMBER NHSX-22

2-22	SHEET NUMBER C.O	

CONCRETE BARRIER AT SIDE LOCATIONS Refer to BA-102, BA-103, BA-104, BA-105, BA-106, BA-107, BA-108 and BA-150. 1. Lane(s) to which the installation is adjacent. 2. Refer to the Shoulders tabulation (112-9) for quantities. * Bid Item	
Line No. Station From Station To Station Type (LF) (LF) (LF) (LF) (LF) (LF) (No.) (No.	Remarks

FILE NO.	ENGLISH DESI	IGN TEAM Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-22	SHEET NUMBER C.0
3/27/2024 1:20:26 PM	tammy.haugen@iow	wadot.us			

	CO			ER WITH	I MSE WALL	108_20 8/15/22
Line No.	Station From	Station To	Side	W (IN)	Remarks	

1				
FILE NO.	ENGLISH	DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-2	2-
3/27/2024 1:20:51 PM	tammy.ha	ugen@iowadot.us		

2-22	SHEET NUMBER C.O	

														108 10/15
			PAVEMENT MARKIN	IG L	INE	TYPE	S							
Line factors based on 6-inch wide continu *BCY4 - Place on the same side of the roa **NPY4 - Estimating purposes only. No Pas ***MNY6 - Factor of 1.00 includes number BCY4: Broken Centerline (Yellow) @ 0.17 CBW6: Crosswalk Bar (White) @ 10.00 CLW6: Crosswalk Bar (White) @ 2.00 DLW4: Dotted Line (White) @ 0.22 ELW6: Edge Line Right (White) @ 1.00 MNY6: Median Nose (Yellow) @ 1.00 RLY4: Ramp Edge Line Left (Yellow) @ 0.67 SPW4: Sloped Curb 4" (White) @ 2.16	dway to match existing sing Zone Lines will b of 6-inch passes to co BCY6: Broken Centerl CHW8: Channelizing L DCY4: Double Centerl DLW6: Dotted Line (W ELY4: Edge Line Left NPY4: No Passing Zon	e located in the field ver median nose area. ine (Yellow) @ 0.25 ine (White) @ 1.33 ine (Yellow) @ 1.34 hite) @ 0.33 (Yellow) @ 0.67 e Line (Yellow) @ 0.84 Left (Yellow) @ 1.00		te) @ ow) @ 0.22 @ 1.0 ellow) 0	1.67 2.00 0 @ 1.25		DDY4: Dou DLY6: Dot LDW8: Lar RLW4: Ran SLW4: Sol	annelizing uble Dotte tted Line ne Drop (V	g Line (Ye ed Line (Y (Yellow) White) @ G ine Right Line (Whi-	ellów) @ Yellow) @ @ 0.33 0.33 (White) te) @ 0.6	1.33 CI 0.44 DI E 0.67 R 57 S	HY10: Cha DY6: Doub LW4: Edge DW10: Lan LW6: Ramp	en Lane Line (White) @ 0.2 nnelizing Line (Yellow) @ ele Dotted Line (Yellow) @ e Line Right (White) @ 0.67 e Drop (White) @ 0.42 o Edge Line Right (White) @ d Lane Line (White) @ 1.00	1.67 0.67 1.00
Line No. Road ID Station From	Station To Lane	M;	arking Type	Left	Center	Right	Groove Marking Needed?	Groove Qty. (STA)	BCY4* Factored (STA)	BLW4 Factored (STA)	DCY4 Factored (STA)	ELY4 Factored (STA)	Remarks	

				· · · · · · · · · · · · · · · · · · ·	
FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-
4/22/2024 6:36:32 AM	tammy.ha	ugen@iowadot.us			

2-22	SHEET NUMBER	C.0	
1			
3_22 5724			
2 22			

TRAFFIC CONTROL PLAN

108_23A 8/15/22

FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER	NHSX-222-2(22)-22
3/27/2024 1:21:45 PM	taemynbaeg	gen@iowadot.us				

2-22	SHEET NUMBER	J.0	

* This is to only 'X" area indicates	be used in c s times that	conjunctio lane clos	on with sures ar	Tabula e not	tion 10 allowed	8-23A.									TRAI	FFIC	CO	NTRO)L CI	LOSU	JRE ⁻	TABL	E(S)																		108_231 1/27/2
Roadway Name	Day		12:00 AM 12:30	1:00	1:30	2:00	2:30 3:00	3:30	1:00	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 12:00 PM		1:00	1:30	2:00	2:30 3.60	3:30	4:00	4:30	5:00	5:30	6:30	7:00	7:30	8:00	8:30	9:00	10:00	10:30	11:00 11:30
[LE NO. 7/2024 1:22:11 PM		SH DESI		¹ Me	etho	ds														S	TORY	COUNT	PRO:	JECT N	IUMBER	¹ NHS	5X-2	22-2	2(22)-22	2-22	2		SHEET	NUMB	er J	.0				

SAFETY GRATE TREATMENT

Refer to DR-503.

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

									Midsnan						
e No. La	ine (1)	Station	Side	Туре	Culvert Skew Degrees Left	Culvert Skew Degrees Right	A B C D (FT) (FT) (FT) (FT	D E F G H T) (FT) (FT) (FT) (F	H J Midspan Support (FT) (FT) Required Case	Wingwall Flare Degrees Ahead	Wingwall Flare Degrees Back	Remarks			
NO. 4 1:22:31 PM	ENG	GLISH DESI	GN TEAM	Metho	ds					STORY COUNTY	PROJECT NUMBER	NHSX-222-2(22)-22-2	2 SHEET	NUMBER C.0	

108_24 3/13/24			

					511 TRAVE	L RESTRICTIONS	5							108_2 3/28/2
Line No.	Route	Direction	County	Location Description	Feature Crossed	Object Type	Maint. Bridge No. or Structure ID or FHWA No.	Type of Restriction	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks	
										-				
E NO.		ENGLISH DE		thods		STORY COUN	NTY PROJECT NUMBER	NHSX-222	2-2(22)-2	22-22	SHEET NU	MBER J.0		

STAGING NOTES

108_26A 8/15/22

	-			-	-	
FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER	NHSX-222-2(22)-22
3/27/2024 1:23:15 PM	Usemynba	∎gen@iowadot.us				

2-22	SHEET NUMBER	J.0	

TEMPORARY FLOODLIGHTING LUMINAIRES Possible Standard: LI-130										
Line No.	Item No.	Station	Offset Number Remarks (FT)		Remarks					

		•			
FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-
3/27/2024 1:23:53 PM	tammy.ha	ugen@iowadot.us			

2-22	SHEET NUMBER C.O	

		IKAFFIC	SIGNALS	
Line No. Item No. Sta	tion Sig	gnal Type	Rema	arks

FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-
3/27/2024 1:24:45 PM	tammy.haugen@iowadot.us	

2-22	SHEET NUMBER C.O	

PAVEMENT MARKING SYMBOLS AND LEGENDS Refer to PM-111									
Line No.	ne No. Roadway Station		Side	Pavement Symbol	Quantity (EA)	Remarks			

FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22.
3/27/2024 1:25:07 PM	tammy.ha	ugen@iowadot.us			

2-22	SHEET NUMBER C.O	

CRASH CUSHIONS

* Bid Item 1. Lane(s) to which the installation is adjacent. 2. Complete this section when using the Temporary Crash Cushion bid item and Earthwork is needed for Sand Barrel placement. Refer to BA-500.

Line Lane No.	Station Sid	Obstacle Width (FT)	Crash Cushion Type	Crash Cushion Quantity	V (FT) (2)	W (FT) (2)	X (FT) (2)	Y (FT) (2)	Z (FT) (2)	Excavation Class 10* (CY)	Embankment in Place* (CY)	Obstacle Description	Remarks
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		-	-		
FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-22	SHEET NUMBER C.0	
3/27/2024 1:26:08 PM	tammy.haugen@iowadot.us				

108_30 4/16/24	

108_33 8/15/22

TEMPORARY BARRIER RAIL

Possible Standard: BA-401 Possible Detail: 560-7

* Not a bid item. Anchorage requirements are based on TBR locations shown in the plans. TBR alignments that vary from what is shown in the plans may result in additional TBR sections requiring anchorage.

		Line No.	No.	Station From	Station To	Length (FT)	Barrier Rail Type	Anchored*	Modular Glare Screen System	Remarks
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FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-
3/27/2024 1:26:34 PM	tammy.ha	ugen@iowadot.us			

2-22	SHEET NUMBER C.O	

108 8/157 CHEVRONS Refer to Standard Road Plan SI-175.					
Line No.	Station From	Station To	Guidance Marker - Chevron (EA)	S (FT)	Remarks

FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER	NHSX-222-2(22)-22-
3/27/2024 1:26:53 PM	tammy.ha	ugen@iowadot.us				

2-22	SHEET NUMBER C.O	

108_35 8/15/22 See TC-61					
Line No.	Station From	Station To	Length (LF)	Remarks	

FILE NO.	ENGLISH D	ESIGN TEAM Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22
3/27/2024 1:27:12 PM	tammy.haugen	@iowadot.us		

2-22	SHEET NUMBER C.O	

110

Removal and Disposition

NO.	DATE	TITLE
110-1	01-12-23	Removal of Pavement
110-2	08-15-22	Removal of Existing Structures
110-3	08-15-22	Flume Removal
110-4	08-15-22	Curb Removal
110-5	08-15-22	Sidewalk Removal
110-6	08-15-22	Breaking Up Pavement
110-7A	08-15-22	Removal of Steel Beam Guardrail
110-7B	08-15-22	Removal of Cable Guardrail
110-8	08-15-22	Removal of Concrete Drives
110-9	08-15-22	Culvert Abandonment
110-10	08-15-22	Salvage and Removal of Buildings
110-11	08-15-22	Asbestos Removal in Buildings
110-12	01-13-23	Pollution Prevention Plan
110-12L	08-15-22	Pollution Prevention Plan
110-13	08-15-22	Delivery and Stockpiling
110-14	08-15-22	Sanitary or Storm Sewer Abandonment or Removal
110-15	08-15-22	Removal of Intakes and Utility Accesses
110-16	08-15-22	Removal of Light Poles and Concrete Footings
110-17	06-12-23	Clearing and Grubbing
110-18	04-18-23	Removal of Existing Longitudinal Subdrains
110-19	04-18-23	Removal of Existing Longitudinal Subdrains when Existing Pavement is Removed

* Not a bi	id item.)VAL OF r to Tabulati	PAVEMEN on 102-5.	110 01 4/5724
Line No.	Station From	Station To	Side	Pavement Type	Area (SY)	Saw Cut* (LF)	Remarks

FIL	E NO.	ENGLISH D	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22
4/22/	2024 6:45:50 AM	tammy.haugen	n@iowadot.us			

-22	SHEET NUMBER C.0	

			REMOVAL OF EXISTIN	G STRUCTURES	110_02 8/15/22
	Line No.	Location	Description	Remarks	
ł					

FILE NO.	ENGLISH DESIGN TEAM	Methods	STODY	COUNTY PROJECT NUMBER NHSX-222-2(22)-22

2-22	SHEET NUMBER C.O	

			REMOVAL			
Station				Drain Removal Metal Right (LF)	Remarks	
	Station	Station Concrete Left	Station Concrete Left Concrete Right	Station Concrete Left Concrete Right Metal Left	Station Concrete Left Concrete Right Metal Left Metal Right	Station Concrete Left Concrete Right Metal Left Metal Right Remarks

FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-
		F

2-22	SHEET NUMBER C.O	

Line No. Station From Station To Side Length (STA) Remarks				CURB RE	MOVAL		110_04 8/15/22
	Line No.	Station From	Station To	Side		Remarks	

FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER	NHSX-222-2(22)-22-
3/27/2024 1:33:39 PM	tammy.hau	ugen@iowadot.us				

2-22	SHEET NUMBER C.O	

* Not a bid item	
Line Station Station Area Saw Cut* No. From To (SY) (LF) Remarks	

FILE NO.	ENGLTSH	DESIGN TEAM Methods		PROJECT NUMBER NH	x 222 2/22	<u>\ </u>

2-22	SHEET NUMBER C.O	

		BRE	AKING UF	PAVEME	110_0 8/15/2 NT
Line No.	Station From	Station To	Width (FT)	Area (SY)	Remarks

FILE NO.	ENGLISH	DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-2

2-22	SHEET NUMBER C.O	

110 07A 8/15/22 REMOVAL OF STEEL BEAM GUARDRAIL (1) Lane(s) to which the installation is adjacent. (2) Includes length of End Terminals and End Anchors. Line No. Direction of Traffic (1) Station From Station To Side Removal of Guardrail (2) (LF)

FILE NO.	ENGLISH	DESIGN TEAM Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22
3/27/2024 1:34:37 PM	tammy.hau	ugen@iowadot.us		

* Not a b (1) Lane(ich the insta	llation is adja	acent.	REMO	VAL OF CAB	LE GUARD	RAIL		2/5	07B 5/24
Line No.	No.	Direction of Traffic (1)	Station From	Station To	Side	Cable Type	Cable Remove (LF)	Post Footings, Concrete Remove* (Yes/No)	End Terminal Remove* (No.)	Remarks	

FILE NO.	ENGLISH DESIGN TEAM Met	hods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-
3/27/2024 1:34:56 PM	tammy.haugen@iowadot.us			

2-22	SHEET NUMBER C.O	

* Not a B	id Item.	REMOV	AL OF C	ONCRETE	DRIVES	110_08 8/15/22
Line No.	Station	Side	Area (SY)	Saw Cut* (LF)	Remarks	

FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-
3/27/2024 1:35:23 PM	tammy.hau	ugen@iowadot.us			

2-22	SHEET NUMBER C.O	

110_09 8/15/22

CULVERT ABANDONMENT

Refer to Details 4315 and 4316

Line No. Station Description Flowable Granular 4" Perforated Mortar Backfill* Subdrain* Remarks (CY) (TON) (LF)	l	* Not a bi	d item.					
		Line No.	Station	Description	Mortar	Backfill*	Subdrain*	Remarks

FILE NO.	ENGLISH	DESIGN TEAM	Methods		STORY COUNTY	PROJECT NUMBER	NHSX-222-2	(22)-22-2
3/27/2024 1:35:41 PM	tammy.ha	ugen@iowadot.us						

2-22	SHEET NUMBER C.O	

				SALVAGE AND REMOVAL OF	BUILDIN	GS			110_10 8/15/22
Line No.	Item No.	Parcel No.	Address	Item	Foundation	Former Owner	Use of Building Previous/Present	Age of Building	Asbestos Content in Building

FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22
3/27/2024 1:36:08 PM	tammy.haugen@iowadot.us	

-22	SHEET NUMBER C.0	

110_1 8/15/2			ILDINGS	MOVAL IN BU	ASBESTOS RE					
Quantity Units	Quantity	Percent & Type of Asbestos	Location and Identification	Asbestos Type	Use of Building Previous/Present	Age of Building	Item	Address	Parcel No.	Line No.
							1		I I	
							IGN TEAM Metho			E NO.

FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-
3/27/2024 1:38:18 PM	tammy ha	ugen@iowadot us			

2)-22-22	SHEET NUMBER		

POLLUTION PREVENTION PLAN

110_12 1/13/23

FILE NO.	ENGLISH D	ESIGN TEAM Methods	STORY COUNTY	PROJECT NUMBER	NHSX-222-2(22)-22
3/27/2024 1:38:55 PM	Uae myn bae gen	@iowadot.us			

22-22	SHEET NUMBER C.0	

110_12L 8/23/22

22-22	SHEET NUMBER C.0	

DELIVERY AND STOCKPILING								
Line No.	Item Description	Quantity	Quantity Units	Delivery Location	Contact Name	Contact Number	Remarks	

FILE NO.	DESIGN TEAM Methods	CTODY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-

2-22	SHEET NUMBER C.O	

* Not a bi		SANITARY O	R STORM SEWER ABAN	IDONMENT OR R	emoval		110_14 3/11/24
Line No.	Location Description	Sewer Type	Work Type	Diameter of Pipe	Length of Pipe (LF)	* Flowable Mortar or CLSM (CY)	Remarks

					· · · · · · · · · · · · · · · · · · ·		
FILE N	NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER	NHSX-222-2(22)-22
3/27/2024	1:43:30 PM	tammy.hau	ugen@iowadot.us				

-22	SHEET NUMBER C.0	

	REMOVAL OF INTAKES AN	D UTILITY	ACCESSES
Line Ite No. No	Location Description	Туре	Remarks

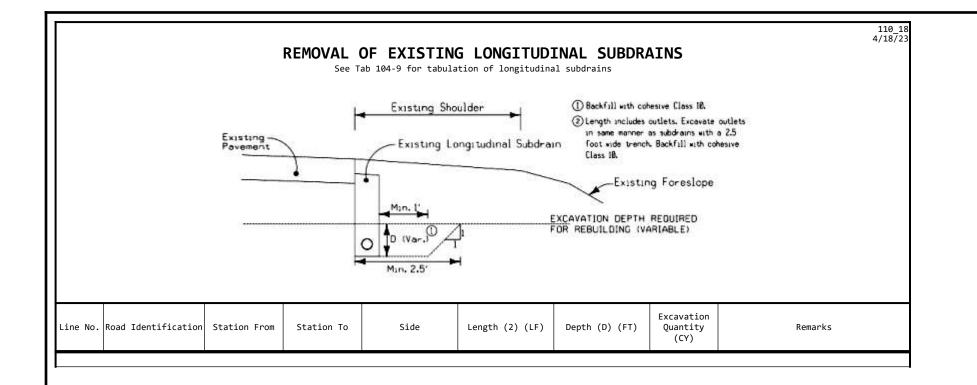
FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-2
3/27/2024 1:43:55 PM	tammy.haugen@iowadot.us	

2-22	SHEET NUMBER C.O	

		REMO	VAL OF	LIGHT P	OLES AND CONCRETE FO	110_16 8/15/22 OTINGS
Line No.	No.	Station	Side	Offset (FT)	Removal Type	Remarks

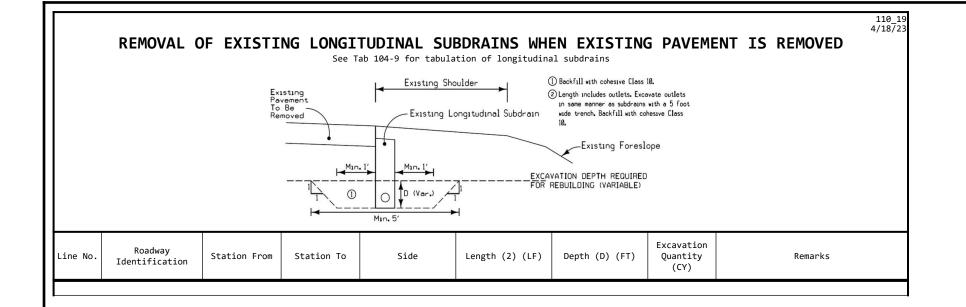
FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22

								(NG ΔΝΓ	D GRUB	BING											110_17 6/12/23
Line No.	Station From	Station To	Direction of Traffic	Work and Material Type	>3"-6"	>6"-9"	>9"-12"	>12"-15"				>36"-42"	>42"-48"	>48"-60"	>60"-72"	>72"	Length	Width	.s Estimated	Estimated Area (Acres)	Estimated Herbicide Application (EA)	Remarks
																	(FT)	(FT)			(EA)	
																		1				
FILE NO	• 44:38 PM	ENGLISH DESIG	GN TEAM	Methods						ST0	RY COUNTY	PROJECT	NUMBER	NHSX-2	222-2(2	22)-22	2-22		SHEET NUMB	^{ER} C.0		



				-		
FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER	NHSX-222-2(22)-22-
3/27/2024 1:45:00 PM	tammy.ha	ugen@iowadot.us				

2-22	SHEET NUMBER C.O	



FILE NO.	ENGLISH	H DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22
3/27/2024 1:45:20 PM	tammy.ha	augen@iowadot.us			

2-22	SHEET NUMBER C.O	

111

Miscellaneous Construction Forms

NO.	DATE	TITLE
111-1	10-14-22	Coordinated Operations
111-2	08-15-22	Tabulation of Revisions
111-23	08-15-22	Listing of Project Revisions
111-25	03-30-23	Index of Tabulations

SECTION

112

Pavement Construction Forms

NO.	DATE	TITLE
112-3	08-15-22	Railroad Approach Sections
112-4	08-15-22	Curbs and Raised Islands
112-5	08-15-22	Concrete Medians
112-6	08-15-22	Bridge Approach Section
112-7	08-15-22	Rumble Strip Panels
112-8	08-15-22	Median Crossovers
112-9	10-15-24	Shoulders
112-10	10-05-23	Milled Rumble Strips

COORDINATED OPERATIONS

Other work in progress during the same period of time will include the construction of the projects listed. Coordinate operations with those of other contractors working within the same area.

Project

Type of Work

111_01 10/14/22

FILE NO.	ENGLISH	DESIGN TEAM Methods		STORY COUNTY	PROJECT NUMBER	NHSX-222-2((22)-22-
3/27/2024 1:47:55 PM	tammy.hau	gen@iowadot.us			•		

-22	SHEET NUMBER J.0	

TABULATION OF REVISIONS

111_02 8/15/22

				· · · · · · · · · · · · · · · · · · ·		
FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER	NHSX-222-2(22)-2
3/27/2024 1:48:12 PM	Uaemyobae	agen@iowadot.us				

-22-22	SHEET NUMBER C.0	

ITSTING	OF	PROJECT	REVISIONS
LT2 I TING	UF	PROJECI	VEATOINO

Date

Sheet No.

Description of Revisions

111_23 8/15/22

3/27/2024 1:48:36 PM	tammy.hau	gen@iowadot.us					
FILE NO.		DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER	NHSX-222-2	2(22)-22

2-22	SHEET NUMBER C.O	

TNDFX	OF	TABULATIONS	

Tabulation Title

Line No.

Tabulation

Sheet No.

111_25 4/2/24

/22/2024 6:47:43 AM	tammy.haugen@iowadot.us		
ILE NO.	ENGLISH DESIGN TEAM Methods	STORY	COUNTY PROJECT NUMBER NHSX-222-2(22)-22

2-22	SHEET NUMBER C.O	

Line No. Station Angle Pavement Area (SY) Remarks			RAILRO	AD APP	ROACH SE	ECTIONS	112_03 8/15/22
	Line No.	Station	Angle			Remarks	

FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-

2-22	SHEET NUMBER C.O	

112_04 8/15/22

CURBS AND RAISED ISLANDS

Refer to PV-20, PV-102, and 6000s Detail Series.

Line No. Point No. Station Offset (FT) Area (1) (SY) Type Curb Gutter Height Width (IN) (FT)	(1) Remarks

FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-2
3/27/2024 1:50:07 PM	tammy.ha	ugen@iowadot.us			

2-22	SHEET NUMBER C.O	

Line No. Station From Station To Type Area* (SY) Modified Subbase (CY) Remarks	* Bid i	tem		co	DNCRETE	E MEDIA	NS	112 6 8/1572
	Line No	. Station From	Station To	Туре		Subbase	Backfill	Remarks

FILE NO.	ENGLISH	DESIGN TEAM	ethods	STC	RY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-2
3/27/2024 1:50:24 PM	tammy.ha	ugen@iowadot.us				

2-22	SHEET NUMBER C.O	

BRIDGE APPROACH SECTION

Refer to the BR Series.

*	Not	а	bid	item	
---	-----	---	-----	------	--

Line No.	Bridge Station	End	Skew Ahead Left (Degrees)		(T) Thickness (IN)	Pay Length (FT)	Non-Reinf. Area (SY)	Reinf.	Double- Reinf. Area (SY)	SRP Approach	SRP Abutment Type	SRP Abutting Pavement	Perforated * 4" Subdrain (LF)	Subdrain * Outlet (STA)	Subdrain * Outlet Side		Class 'A' * Crushed Stone Backfill (CY)	Subbase	Polymer * Grid (SY)	Special * Backfill (TON)	Remarks
-------------	-------------------	-----	---------------------------------	--	--------------------------	-----------------------	----------------------------	--------	--------------------------------	-----------------	-------------------------	-----------------------------	-------------------------------------	-------------------------------	------------------------------	--	---	---------	---------------------------	--------------------------------	---------

		· · · · · · · · · · · · · · · · · · ·
FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-22 SHEET NUMBER C.0
3/27/2024 1:50:43 PM	tammy.haugen@iowadot.us	

112_06 2/22/24

RUMBLE STRIP PANELS Refer to Standard Road Plan PV-10.								
Line No.	Roadway Identification	Station	Side	Pavement Type	Remarks			

	FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-
3	3/27/2024 1:51:06 PM	tammy.hau	gen@iowadot.us			

2-22	SHEET NUMBER C.O	

MEDIAN CROSSOVERS

Refer to PV-500 Series.

'Not a b	oid item			1	1	1		1	1			40"		Dece 1						
Line No.	Road Identification	Station	Standard Road Plan	Detour Pavement (SY)	Special Backfill (TON)	Granular Shoulder (TON)	Embankment in Place (CY)	Class 10 Excavation (CY)	Class 13 Excavation (CY)	Removal of Pavement (SY)	Saw Cut* (LF)	18" Unclassified Roadway Pipe (LF)	36" CMP Slotted Drain/6" Grat (LF)	Beveled Pipe and Guard (No.)		Remarks				
		·		·	·	·							·	·						
													I							
E NO. 024 1:51:28	ENGI	LISH DESIGN T ammy.haugen@iowadot.us	EAM Me	thods								STORY	COUNTY PROJ	ect number N	HSX-222	-2(22)-22-	-22	SHEET	NUMBER C.0	

112_08 8/15/22	
0/15/22	

SHOULDERS

Lane(s) to which the shoulder is adjacent.
 See Typ. 7156, 7157, or 7158.
 Bid Item.
 Applies only for Paved Shoulders constructed on project with existing granular shoulders.
 Bid Item. Typ. 7156, 7157, or 7158.
 Does not include shrink.
 Paved shoulder thickness specified in Remarks.
 Subbase type specified in Remarks.

FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-22 SHEET NUMBER C.0
4/22/2024 6:48:45 AM	tammy.haugen@iowadot.us	

112_09 10/15/24

* Calculat	ed at 18" width for Shou	lder.			MIL	LLED R	NUMBLE S	STRIPS					16	112_10 10/5/23
Line No.	Road Identification	Station From	Station To	Shoulder Pavement Type	Rumble Strip Type	L (IN)	PCC Length (STA)	HMA Length (STA)	Fog Seal* Shoulder (GAL)	Effective Shoulder Width PCC (FT)	Effective Shoulder Width HMA (FT)	Effective Shoulder Width Granular\Earth (FT)	Remarks	
														I
TLE NO. 27/2024 1:52:26	ENGLISH Lamou . hause	DESIGN TEAM Met	thods							STORY COUNTY	PROJECT NUME	BER NHSX-222-	2(22)-22-22	

SECTION

113

Sidewalks

NO.	DATE	TITLE
113-1	08-15-22	Sidewalks
113-1A	08-15-22	
113-2	08-15-22	Pedestrian Path Closures
113-3	08-15-22	Pedestrian Channelizers
113-10	04-18-17	Sidewalk Compliance
113-10A	04-21-20	Sidewalk Compliance

						So	SIDEWA								
						Back		Face of		7/2174					
Line No.	Intersection/Road	Quadrant/Side	A (FT)	B (FT)	S (%)	Sidewalk Thickness (IN)	Sidewalk Length (FT)	Sidewalk Width (FT)	Sidewalk Area (SY)	4" PCC Sidewalk (SY)	6" PCC Sidewalk (SY)	8" PCC Sidewalk (SY)	10" PCC Sidewalk (SY)	Detectable Warnings (SF)	_

FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-22	SHEET NUMBER S.O
4/22/2024 6:50:50 AM	tammy.haugen@iowadot.us		

	113_01 3/29/24
Remarks	

								SIDE See MI-220 ar	WALKS nd S Sheets								113_01 8/15/2
							- 	ok of Curb	**	(B)							
Line No.	Road Identification	Station From	Station To	Side	A (FT)	B (FT)	S %	Sidewalk Thickness (IN)	Sidewalk Length (FT)	Sidewalk Width (FT)	Sidewalk Area (SY)	4" PCC Sidewalk (SY)	6" PCC Sidewalk (SY)	8" PCC Sidewalk (SY)	10" PCC Sidewalk (SY)	Detectable Warnings (SF)	Remarks

	· · ·		· · ·
FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-22	SHEET NUMBER C.O
4/22/2024 6:49:35 AM	tammy_haugen@iowadot.us		

	PEDESTRIA Ref	AN PATH er to TC-601		RES	113_02 8/15/22
	6 foot wide barricade. may need to be removed and re-established.				
Line No.	Location	Side	Width of Closure (FT)	Type III Barricades* (No.)	Remarks

FILE N	NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER	NHSX-222-2(22)-22-
3/27/2024	1:53:42 PM	tammy.ha	ugen@iowadot.us				

-22	SHEET NUMBER J.0	

	PE	DESTRIAN	I CHAN	8/157	03 22
Line : No.	Station From	Station To	Length (FT)	Remarks	

FILE NO.	ENGLISH DESIGN TEAM Method	s	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-2

2-22	SHEET NUMBER C.O	

SIDEWALK COMPLIANCE

See S Sheets

* Does not include curb 1. Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications. 2. Refer to tabulation 113-01 for bid quantities.

FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-22 SHEET NUMBER S.O	
4/22/2024 6:51:29 AM	tammy.haugen@iowadot.us		

	1		
113_10 4/15/24			

													113-10A 04-21-20
* Does not include 1 Staking required 2 Refer to tabulati	curb by Contracting Authority per Article 2511.03 of on 113-01 for bid quantities.	the Standa	rd Specifications.		SIDE	See S SI		NCE					04-21-20
Point to Point	Cideuelle Designation	_" PCC		Slope	Acceptable		Measured	Initials	Remarks	VALU		MATION ONLY: RMINE DESIGNED S	SLOPES
POINT TO POINT	Sidewalk Designation	Sidewalk	FT FT	%	Constructed Range Pos. or Neg.	on this Quadrant?	Slope %	10111312	rendrks	Point	Northing	Easting	Elevation

SECTION

190

Signing

NO.	DATE	TITLE
190-01	08-15-22	Sign Support Structures
190-10	08-15-22	Overhead Bridge Mounted Sign Bracket Assemblies
190-11	08-15-22	Signing Materials for At-Grade Crossovers
190-25	02-10-23	Reference Location Signs and Delineators
190-50	09-29-23	Materials for Type 'B' Signs
190-51	02-10-23	Materials for Type 'A' Signs
190-52	10-15-24	Materials for Overhead Sign Support Structures
190-54	02-10-23	Signing Materials for Expressway At-Grade Intersections
190-61	02-10-23	Existing Signs to be Reinstalled
190-62	02-13-23	Existing Signs to be Removed
190-65	08-15-22	Special Sign Mounting Brackets
190-66	09-29-23	Summary of Type 'A' Signs
190-67	02-13-23	Catwalks and Lighting to be Removed

Dynamic Message Signing

NO.	DATE	TITLE
192-01	08-15-22	Materials for Steel Roadside DMS Sign Support

SECTION

192

			SIGN SUPPORT STRUCTURES	190_01 8/15/22
Line No.	Number	Date	Title	

	 F	 1
FILE NO.	DESIGN TEAM Methods	PROJECT NUMBER NHSX-222-2(22)-22-

2-22	SHEET NUMBER C.O	

	OV	ERHEAD BRIDGE MOUNTED S	IGN BRACKET ASSEM	BLIES		190_10 8/15/22
Line No.	Sign Number	For Traffic	Bridge Location	2 Bracket (EA)	3 Bracket (EA)	4 Bracket (EA)

2-22	SHEET NUMBER C.O	

		SIG	NING MATER	IALS FOR A	T-GRADE CR	OSSOVERS	190_11 8/15/22
Line No.	Station	Typical Signing Detail	Type 'A' Sign Area (SF)	Wood Posts 4" x 4" (LF)	Wood Posts 4" x 6" (LF)	Type II Delineator Yellow (EA)	Remarks

FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-
3/27/2024 2:12:42 PM	tammy.haugen@iowadot.us	

2-22	SHEET NUMBER C.O	

REFERENCE LOCATION SIGNS AND DELINEATORS

Refer to SI-171, SI-172 and SI-173.

	Type I Delineator White (EA)Type IAType IAType IAType IIType IIType IIIType IIIObjectObjectObjectObjectObjectMarkerInstallationVellow (EA)Delineator White (EA)Yellow (EA)Vellow (EA)Vellow (EA)Vellow (EA)Vellow (EA)Type IIIType III Delineator White (EA)Type III DelineatorType III DelineatorObject MarkerObject MarkerObject MarkerObject MarkerInstallation Type 3Installation Offset
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FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-22 SHEET NUMBER C.0
3/27/2024 2:12:54 PM	tammy.haugen@iowadot.us	

190_25 2/10/23

		MATERIALS FOR TYPE 'B' SIGNS	190_50 9/29/23
Line No. Number Route County Exit	Road Seq. Dir of Sign Location ID No. Travel Station Fab Info	Sign Height (FT)New Area (FT)4x6 L (FT)4x6 R (FT)Perf. 	Remarks

FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-22 SHEET NUMBER C.0	
3/27/2024 2:13:17 PM	tammy.haugen@iowadot.us		

									MATERIA Refer to Si	ALS FOR 1-101, SI-111,	TYPE 'A' SI-119 and N Shee	SIGNS ets.										19 2/1	0_51 0/23
Line No.	Type A Signing Typicals	Sign Number	Dir. of S Travel	ign Location Station	Wood Posts (No.)	4 x 6 Leg 1 (FT)	4 x 6 Leg 2 (FT)	Perf. Sq. Perf. Sq. Per Steel LegSteel LegSte 1 (FT) 2 (FT) 3	of. Sq. Perf. Sq. (FT) Anchor Type	Anchor Quantity (EA)	Steel Stee Rect. Rec Tube (No) Tube		Type A Bracket One Post	Type A Bracket Two Post	Type A Bracket Auxiliary	Type A Bracket (H)	Type A Bracket (F)	Type A Bracket (F1)	Install. Type	Install. Dim X (FT)	Install. iigning Notes	Remarks	
I																							1
FILE NO.	:35 PM	IGLISH DESIGN	TEAM	Methods							STORY	COUNTY PRO	JECT NUMBER	NHSX-2	222-2(2	2)-22-2	22	SHEI	ET NUMBER	C.0			

						MATE	RIALS	FOR OVER	HEAD SI	GN SUPP	ORT STR	JCTURES					190_52 10/15/24
Line No.	Roadway	Reference Location Sign	Station	State Plane North	State Plane South	Direction of Travel	Span Length	Structure Designation	Sign Truss Standard Series	Inside Foundation Offset (FT)	Outside Foundation Offset (FT)	Additional Stem Height 'L' Inside (FT)	Class 20 Excavation (CY)	Reinforcing Epoxy Coated Steel (LB)	Structural Concrete (CY)	Anchor Bolt Assembly (EA)	Anchor Bolt Assembly (LB)

FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-22 SHEET NUMBER C.0	
4/22/2024 6:52:22 AM	tammy.hau	ugen@iowadot.us			

Line No. No. County Jurisdiction Route 1 Route 2 Reference Location Station Typical R1-1B R1-2 R5-1A R6-1C R6-3B R6-3C OM-1 Post Type Posts 24 FT (EA) Post 24						SIGNIN	IG MATEI	RIALS	FOR E	XPRES	SWAY	AT-GR/	ADE IN	ITERSE		5					1 2/
Sign (EA) Brackets Present	Line No	o. No.	County	Jurisdiction	Route 1		Station	Typical	R1-1B	R1-2	R5-1A	R6-1A	R6-1C	R6-3B	R6-3C	OM-1	Post Type	Posts 24		Islands	Remarks

FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-22	SHEET NUMBER C.O
3/27/2024 2:14:24 PM	tammy.haugen@iowadot.us			

		E	XISTING	SIGNS ⁻	TO BE F	REINSTA	LLED			190_61 2/10/23
Line No.	Sign Description	Direction of Travel	Location Station	Number of Posts	Square Tube Steel Posts	Wood Posts 4"x4" (L F)	Wood Posts 4"x6" (L F)	Installation Type	Installation Dim 'X'	See Signing Notes

FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-
3/27/2024 2:14:49 PM	tammy.haugen@iowadot.us	

2-22	SHEET NUMBER C.O	

Line No. Sign Number or Description Station Station Direction of Travel A's sembly Assembly (RA) (EA) (RB) (EA) (RR) (RR) (RR) (RR) (RR) (RR) (RR) (R			EXIS	TING S	SIGNS TO	D BE RE	MOVED			190_ 2/13,
	Line No.		Sign Assembly	Sign	Remove and Reinstall	Remove and Reinstall	Foundation	Structure & Foundation	Signing	Remarks

FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNT	PROJECT NUMBER NHSX-222-2(22)-22-

2-22	SHEET NUMBER C.O	

	SPECIAL SIGN MOUNTING BRACKE	190_65 8/15/22 TS
Line No.	Bracket Type	Quantity (EA)

FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-2
3/27/2024 2:15:26 PM	tammy.haugen@iowadot.us	STORT COM	

SUMMARY OF TYPE 'A' SIGNS									
Line No.	Non-Standard			Size (IN)	Total Sign Area (SF)				

	FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER NHSX-222-2(22)-22-2
-	3/27/2024 2:15:47 PM	tammy.hau	ugen@iowadot.us			

2-22	SHEET NUMBER C.O	

	CATWALKS AND LIGHTING TO BE REMOVED									
Line No	o. Structure No.	Route	County	Station	Reference Location Sign	Direction of Travel	Road ID	Removal of Catwalk and Lighting (EA)	Remarks	

FILE NO.	ENGLISH DESIGN TEAM Methods	STORY COUNTY PROJECT NUMBER NHSX-222-2(22)-22-
3/27/2024 2:16:20 PM	tammy.haugen@iowadot.us	

2-22	SHEET NUMBER C.O	

	MATERIALS FOR STEEL ROADSIDE DMS SIGN SUPPORT											
Line No.	DMS Number/Name	Route	Station	Reference Location Sign	Direction of Travel	Skew Angle (Degrees)	Offset Y1 (FT)	Offset Y2 (FT)	Length of Post (FT)	Class 20 Excavation (CY)	Reinforcing- Epoxy-Coated Steel (LB)	Stru

FILE NO.	ENGLISH	DESIGN TEAM	Methods	STORY COUNTY	PROJECT NUMBER	NHSX-222-2(22)-22-
3/27/2024 2:16:41 PM	tammy.ha	ugen@iowadot.us				

192_01 8/15/22

tructural Concrete (CY)