	INDEX OF SHEETS		
No.	DESCRIPTION		
A Sheets	Title Sheets		
A.1 A.2	Title Sheet Location Map Sheet		
B Sheets	Typical Cross Sections and Details		
B.1 - 6	Typical Cross Sections and Details	PLANS OF PROPOSED IMPROVEMENT ON THE	
C Sheets	Quantities and General Information		л
C.1 C.1	Project Description Estimated Project Quantities	PRIMARY ROAD SYSTEN	/
C.1	Estimated Project quantities		
C.1	Estimate Reference Information		
C.1 C.1	Estimate Reference Information Standard Road Plans	BLACK HAWK COUN	
C.1	Standard Road Plans		
C.1 C.1	Index of Tabulations Pollution Prevention Plan	HMA Resurfacing with Wider	iing
C.1	General Notes	Hudson to	•
C.1	Tabulations (beg. with tab. of incidentals if needed)	West US 20 junction	
D Sheets	Mainline Plan and Profile Sheets	-	
* D.1 * D.2	Plan & Profile Legend & Symbol Information Sheet "Mainline Name"	SCALES: As Noted	
G Sheets	Survey Sheets		
G.1	Reference Ties and Bench Marks	Refer to the Proposal Form for list of applicable specifications.	
G.2	Horizontal Control Tab. & Super for all Alignments		
H Sheets	Right-of-Way Sheets "Mainline Name"	Value Engineering Saves. Refer to Article 1105.14 of the Specificat	ons.
J Sheets	Traffic Control and Staging Sheets		
* J.1	Traffic Control Plan		
* J.2	Staging Notes Stage		
* J.3 * J.4	Traffic Control & Staging Legend & Symbol Info. Sheet Staging and Traffic Control Sheets Stage ??		
L Sheets	Geometric, Staking and Jointing Sheets	Field Exam: 3/28/2022	
L.1	Geometric & Staking "Mainline or Side Road Name"	Mary Kelly, IDOT	
L.2 L.3	Edge Profiles "Mainline or Side Road Name" Jointing "Mainline or Side Road Name"	Tracy Meise, IDOT	
N Sheets	Traffic Signal Sheets	Kip Siems, IDOT	
N.1	Traffic Signal Sheets "Mainline or Side Road Name"		
S Sheets	Sidewalk Sheets	Ron Loecher, IDOT	
* S .1 * S .2	Sidewalk Legend & Symbol Information Sheet Sidewalk Plan Sheets	Tyler Kubik, IDOT	
* \$ .3	Sidewalk Flan Sheets	Jake Hovey, City of Hudson	
V Sheets	Bridge and Culvert Situation Plans		
V.1	Bridge and Culvert Situation Plans		
W Sheets W.1	Mainline Cross Sections Cross Sections Legend & Symbol Information Sheet		
W.2	Mainline Cross Sections		
	* Color Plan Sheets		
		1	
			Mary
			1ichael Mich



	MILEAGE SUMMAR	2Y	105-1 09-27-94
Div.	Location	Lin. Ft.	Miles
1	STA 762+35.0 to STA 957+57.7 STA EQ STA 957+57.7 BK=STA 2957+50.0 AH	19,522.7	3.7
	STA 2957+50.0 to STA 2972+99.2 STA EQ STA 2972+99.2 BK= STA 973+01.7 AH	1,549.2	0.29
	STA 973+01.7 to STA 1045+56.0	7,254.3	1.37
	Bridge STA 806+85.25 Bridge STA 815+20.75	(261.0) (208.5)	(0.05) (0.04)
	Bridge STA 1018+18.96	(272.5)	(0.05)
	TOTAL	27,584.2	5.28

INDEX OF SEALS						
	Mary K. Kelly					
Ν	Michael Jorgensen	Signal				
V	Michael Nop	Bridge				

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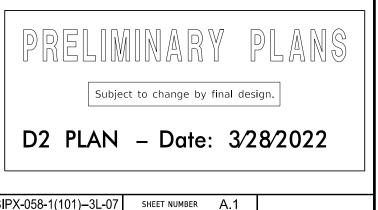
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DESIGN TEAM KELLY/MEISE ENGLISH tmeise

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BLACK HAWK COUNTY PROJECT NUMBER NHSX-058-1(100)--3H-07/HSIPX-058-1(101)-3L-07

TOTAL
PROJECT IDENTIFICATION NUMBER
PROJEC21-107-1058-0210
NHSX-058-1(100)3H-07
R.O.W. PROJECT NUMBER
-
-
-



# Field Exam Notes:

No pre-shouldering necessary

Clearing and treatment of stumps, start at 5th Street intersection and go north of the bridge, include foreslope to where foreslope flattens out, not to exceed 85 feet from centerline. ROW here is quite wide and do not need to clean all of ROW, Just enough to improve sight distance at intersection. Include a note to protect the existing USGS Gaging Station. Include note on the plans to indicate power line.

Will need 5 divisions for NHSX project:

- Div 1 3R
- Div 2 Hudson
- Div 3 Cedar Falls
- Div 4 Black County
- Div 5 Non FA Eligible (Stockpile of Guardrail)

Maintenance would like the existing guardrail only (no hardware or posts).

For sideroad paving, Hudson has jurisdiction east of IA 58 and Black Hawk Co. west of IA 58.

City of Hudson has an interest to pave further back on some of their paved side roads in town. They will get back to us which intersections and how far back they would like to go.

Hudson will get for DOT information of valve and manhole locations to be adjusted if affected.

Gave to city a copy of what the Rectangular Rapid Flashing Beacon was. Explained that it would be different then existing pedestrian signal out there today. They would let us know if the City was opposed but did not think Council would be.

Construction will get to design a patching tab.

Use sediment logs for erosion control purposes.

One location coming north out of town on the west side where shoulder is narrow. High fill area, construction will plan on tapering into it.

In PCC section on north end of project, wide granular shoulders will not be narrowed.

At culvert (approximately 1600 LF south of Shaulis Rd) with concrete crossing, riprap will be placed at the inlet. Rip rap will be placed at the outlet the the concrete crossing.

Include surface patching bid item, 5 ton of quantity.

Include call out for station for division between Cedar Falls and DOT.

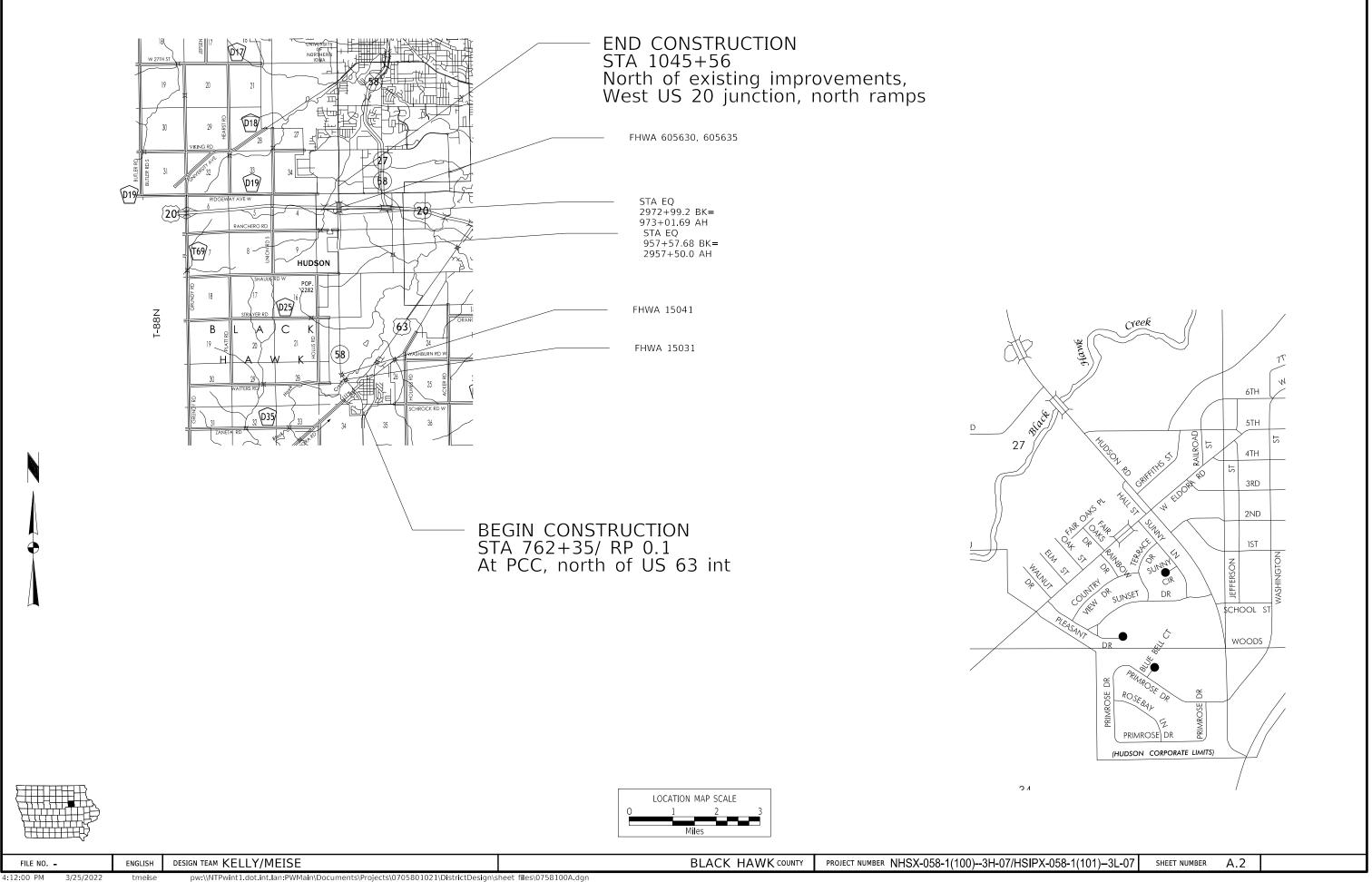
EOP in Cedar Falls - there is a right hand turn lane in PCC in good condition. To avoid it, DOT can mill and fill in the turn lane area to allow the surface to be carried thru.

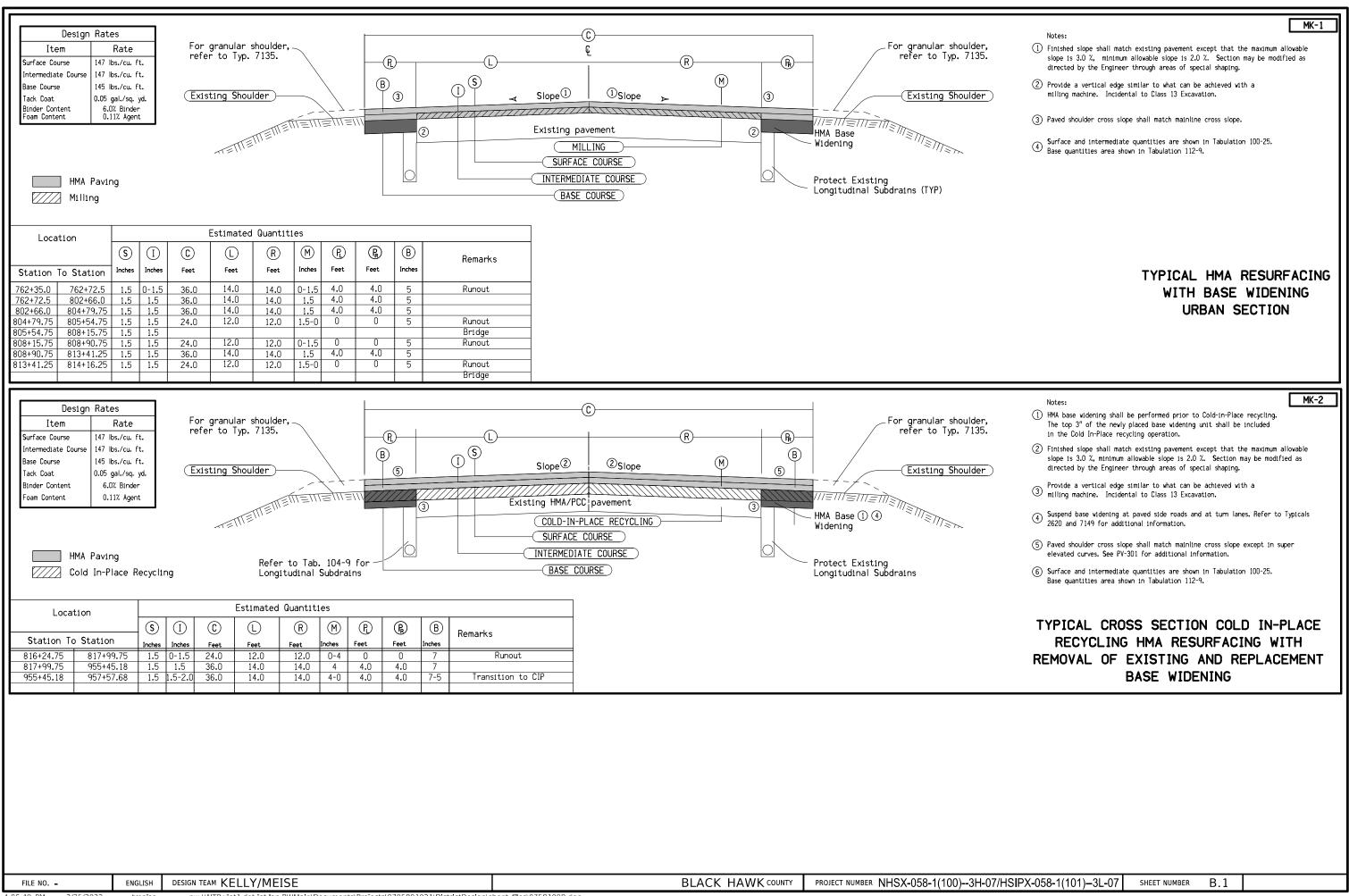
Stayer Avenue - Radius has been widened because of turning traffic. This is causing a drainage issue because the pipe is plugged, ditch is filled in causing water to overtop the roadway. Need to work with the county on a repair method they are okay with. Possibly to include pulling in the radius and cleaning ditch to the west and north. The pipe needs to be located and either unplugged or replaced.

In city of Hudson, may have to consider 2 feet of widening instead of 4' to make it fit. Needs to be verified.

Fillets in Hudson will be removed with widening, Class 13.

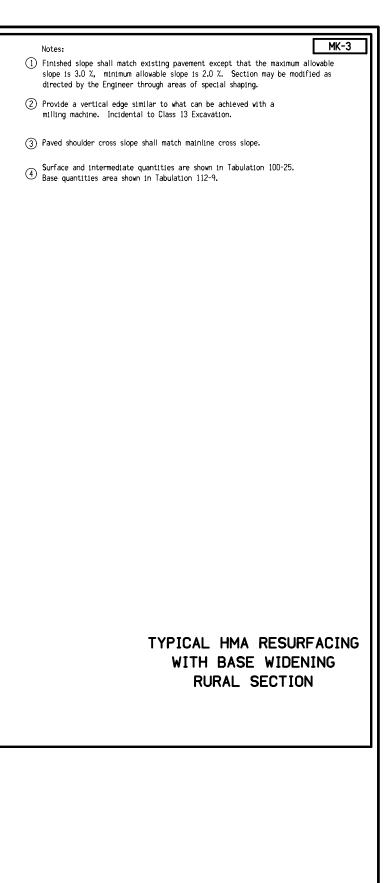
At the intersection in Hudson at Eldora, may have to consider 4 foot wide sidewalk instead of 5 feet to avoid poles.

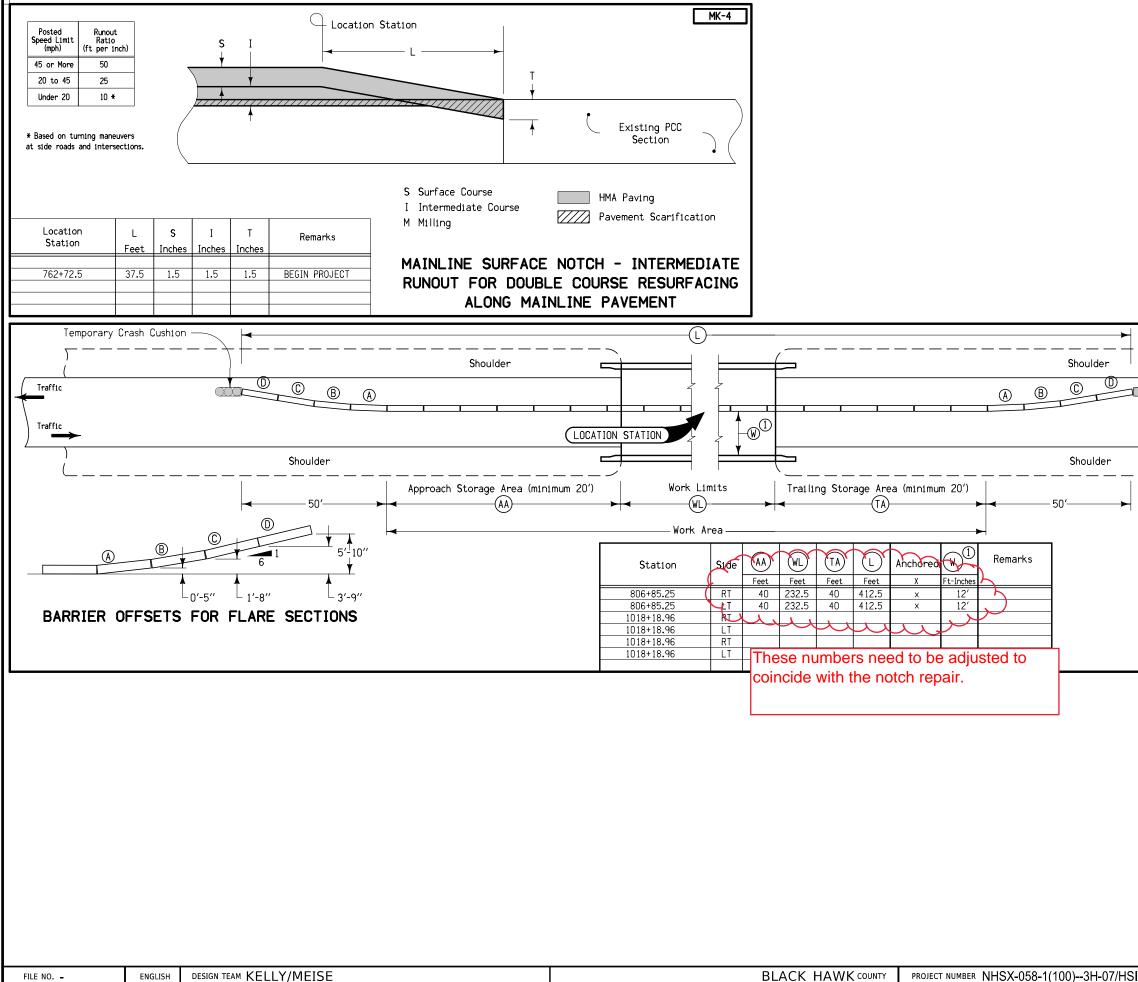




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Design Rates         Item       Rate         Surface Course       147 lbs./cu.         Intermediate Course       147 lbs./cu.         Base Course       145 lbs./cu.         Tack Coat       0.05 gal./sq         Binder Content       6.0% Binder         HMA Paving          Milling	ft. ft. ft. . yd.		For granul. refer to T Existing S	houlder	)		R B 4 2			- SUF	g pavemen RFACE COUF	RSE		(	(4) (2) (2)	HMA Base Widening Protect Exi Longitudina	Ex TETTETTE	manular shoulder, er to Typ. 7135. disting Shoulder)
Location			ł	Estimate	ed Quar	ntities	Loca	tion			E	Estimate	ed Quar	ntities	]			
	S	1	L	R	B	Remarks			S	1	R	(P <sub>R</sub> )	B	Remarks				
Station To Station	Inches		Feet	Feet	Feet		Station To 2957+50.0		Inches		Feet	Feet	Feet		=			
2957+50.0 2968+48.7 2968+48.7 2972+99.2	2	3	18.0 18.0-22.5	6.0 6.0	5		2957+50.0 2964+57.4	2964+57.4 2971+04.9	2	3	12.0 12.0-14.5	6.0 6.0	5 5		-			
						STA EQ	2971+04.9	2972+99.2	2	3	14.5	6.0	5					
973+01.71014+32.71014+32.71014+97.3	2	3	18.0-30.0 72.0	6.0 6.0	5		973+01.7	974+95.2	2	3	14.5	6.0	5	STA EQ	-			
1014+97.3 1016+82.7	2	3	72.0-58.0	6.0	5	Runout	974+95.2	986+26.2	2	3	14.5-26.5	6.0	5		-			
<u>1016+82.7</u> <u>1019+55.2</u> 1019+55.2 <u>1020+07.3</u>	2	3	40.0-32.0	6.0 6.0	5	Bridge Runout	986+26.2 987+81.0	987+81.0 989+01.0	2	3	26.5 26.5-34.5	6.0 6.0	5		-			
1020+07.3 1020+67.3	2	3	32.0-30.0	6.0	5	- Hanout	989+01.0	990+51.0	2	3	34.5	6.0	5		-			
1020+67.3 1022+05.2	2	3	30.0	6.0	5		990+51.0 991+59.0	991+59.0 1008+35.0	2	3	34.0 24.0	6.0 6.0	5		_			
<u>1022+05.2</u> <u>1022+80.0</u> 1022+80.0 <u>1023+25.0</u>	2	3	30.0	6.0 6.0	5		1008+35.0	1008+95.0	2	3	24.0	6.0	5		-			
1023+25.0 1024+29.5	2	3	40.0	6.0	5		1008+95.0	1010+45.0	2	3	24.0-38.0	6.0	5		-			
1024+29.5 1025+30.0	2	3	30.0	6.0	5		1010+45.0 1011+05.0	1011+05.0 1012+25.0	2	3	38.0-42.0	6.0 6.0	5		_			
1024+29.5 1035+00.0	2	3	24.0	0	0	Cedar Falls	1012+25.0	1012+90.0	2	3	50.0-68.0	6.0	5		-			
1035+00.0 1035+40.0	2	3	24.0	0	0	Cedar Falls	1012+90.0	1014+32.7	2	3	28.0	6.0	5	Data				
<u>1035+40.0</u> <u>1036+90.0</u> 1036+90.0 1038+10.0	2	3	<u>36.0</u> 36.0-24.0	0	0	Cedar Falls Cedar Falls	1014+32.7 1016+82.7	1016+82.7 1019+55.2	2	3	28.0	6.0	5	Runout Bridge	-			
1038+10.0 1043+06.0	2	3	24.0	0	0	Cedar Falls	1019+55.2	1021.25.0	2	3	28.0	6.0	5	Runout	_			
1043+06.0 1045+56.0	2	3-0	24.0	0	0	Runout	1021.25.0	1022+05.2	2	3	26.5	6.0	5					
							1022+05.2 1022+45.0	1022+45.0 1022+80.0	2	3	26.5-38.5 38.0	6.0 6.0	5		-			
							1022+80.0	1023+25.0	2	3	36.0	6.0	5		-			
					+		1023+25.0 1024+29.5	1024+29.5 1024+78.4	2	3	36.0 36.0-24.0	6.0 6.0	5		-			
															1			
							1024+78.4	1032+19.0	2	3	24.0	0	0	Cedar Falls	-			
	_						1032+19.0 1033+39.0	1033+39.0 1034+89.0	2	3	24.0-36.0 36.0	0	0	Cedar Falls Cedar Falls	-			
							1034+89.0	1035+52.0	2	3	36.0	0	0	Cedar Falls				
					-		1035+52.0 1043+06.0	1043+06.0 1045+56.0	2	3-0	24.0 24.0	0	0	Cedar Falls Runout	-			
							1040100.0	10101000		<u> </u>	24.0			Nullout	-			





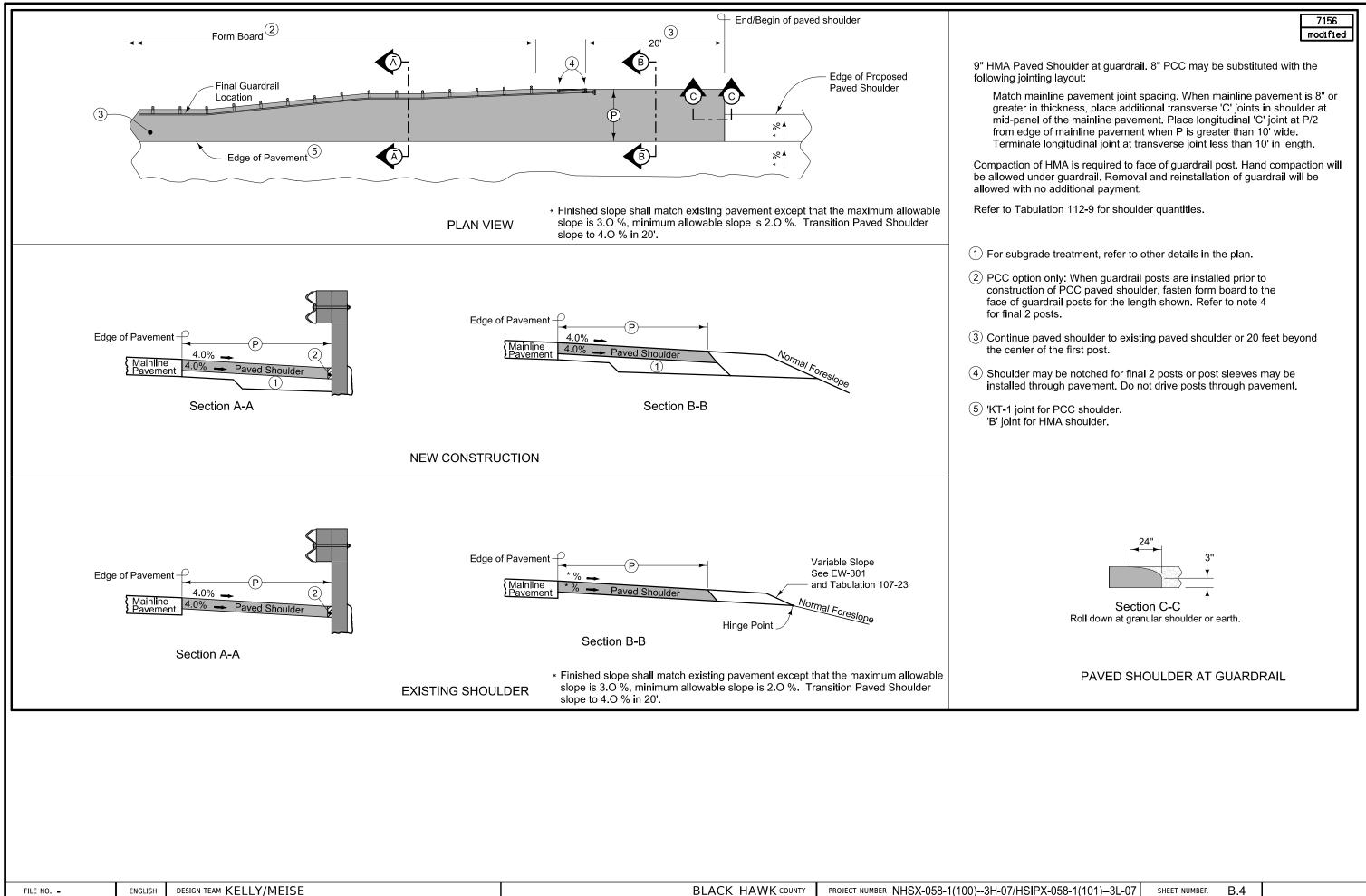
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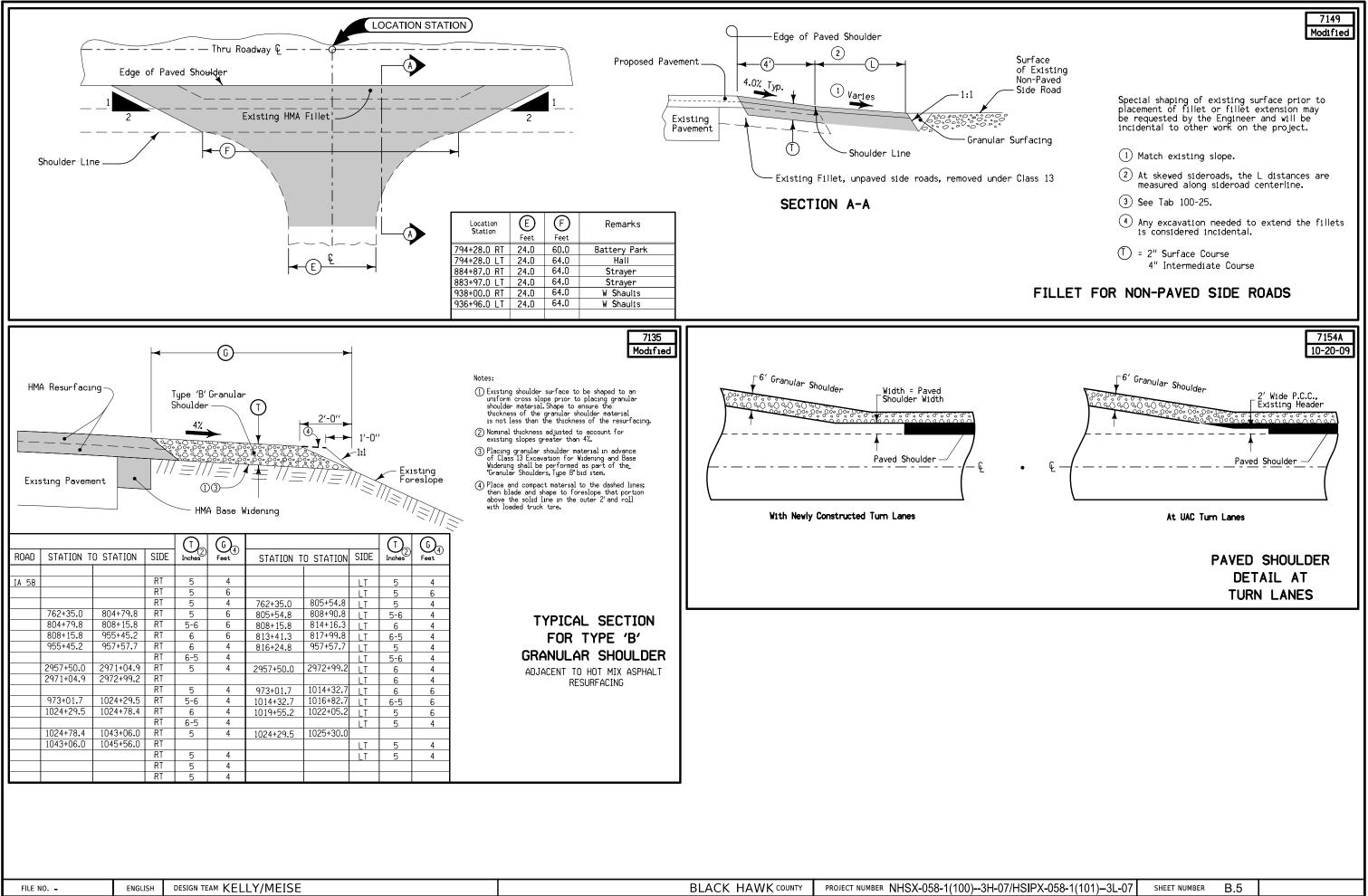
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Temporary Crash C	 ushion		
signing a	is less than 14'-6 s per Standard Road Y CONCRETE or Two-Way	d Plan TC	RIER LAYOUT
PX-058-1(101)–3L-07	SHEET NUMBER	B.3	



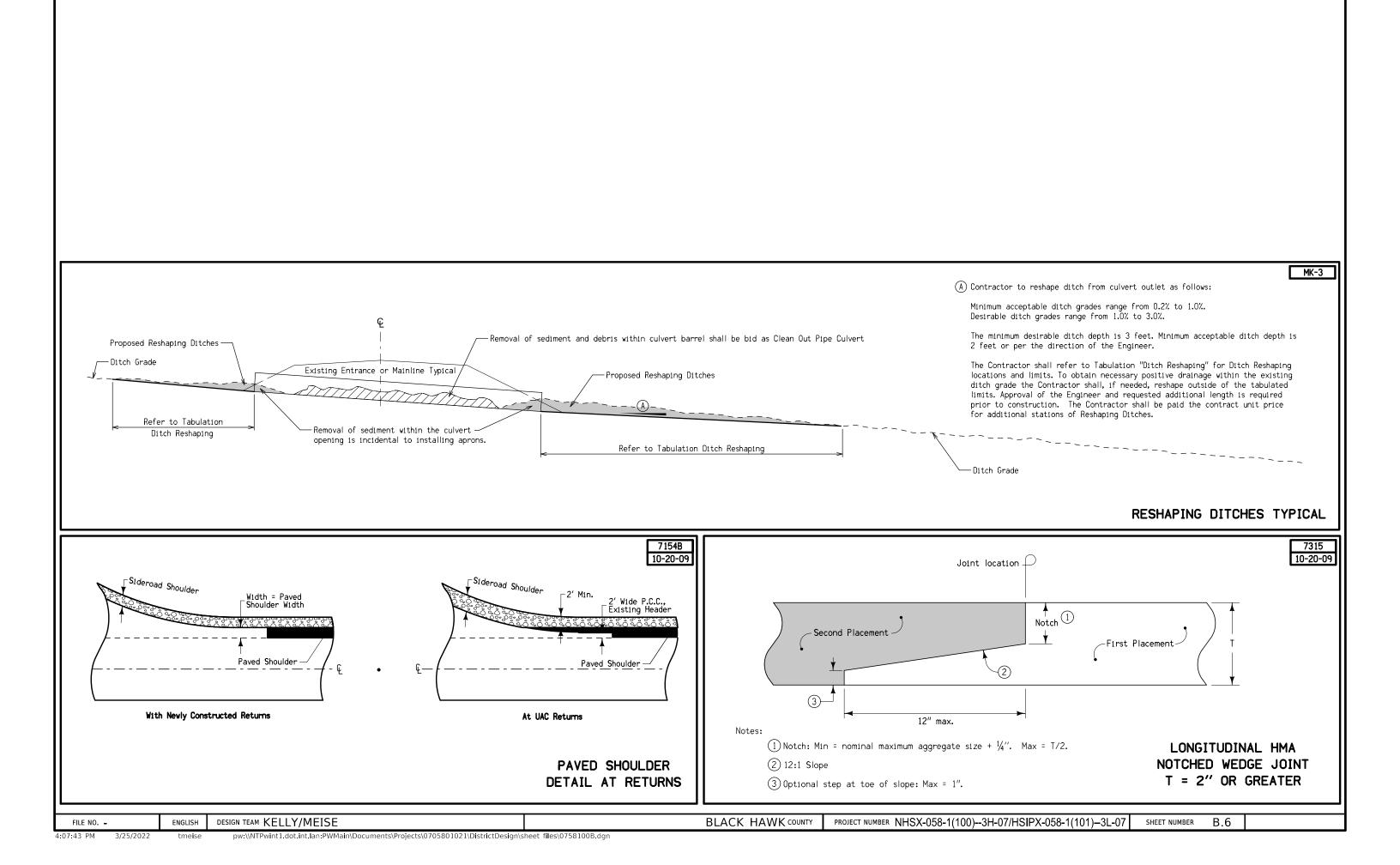
IPX-058-1(101)-3L-07	SHEET NUMBER	B.4



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3/25/2022



# ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

		Quantitie		Quantities	
Item	Item Code	Item	Unit	Estimated	Estimate Refer
no.	·•			Roadway Items	
1	2101-0850002	CLEARING AND GRUBBING	UNIT	0	"All wood material generated as a result of Clearing and Grubbing must and Land Stewardship Emerald Ash Borer Quarantine Order. For more Tabulation 110-17 for additional information.
2	2102-0425070	SPECIAL BACKFILL	TON	0	Refer to Typical 7156 and Tabulation 112-9 for additional information.
3	2102-2625000	EMBANKMENT-IN-PLACE	СҮ	0	Refer to Tabulation 104-13 for additional information. The Contractor s debris in these areas shall be considered incidental to this bid item. Gr Material obtained from item 'Excavation, Class 13, Widening" may be Overhaul will not be paid for this item.
4	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CY	0	Strip 12 inches of topsoil within the limits of grading. After excavating t 8 inch depth across the grading area. Seed the disturbed topsoil stock Seeding of the stockpile areas shall be considered incidental to this bid All disturbed areas not covered by pavement or gravel shall have a mi approved by the Engineer for placement may also be used. Stripping of item. Refer to Tabulations 100-34 and 103-10 for additional information Removal and replacement of mile markers is considered incidental to the
5	2122-5500090	PAVED SHOULDER, HOT MIX ASPHALT MIXTURE, 9 IN.	SY	0	Refer to Typical 7156 and Tabulation 112-9 for additional information.
6	2122-7450080	SHOULDER STRENGTHENING, OPTIONAL HOT MIX ASPHALT MIXTURE OR PORTLAND CEMENT CONCRETE, 8 IN.	SY	0	Refer to U Sheets and Tabulation 112-9. Quantity includes shoulder st Install strengthening for one direction approach work with TBR prior to
7	2125-2225050	RESHAPING DITCHES	STA	0	Refer to Typical MK-? and Tabulation 300-1. Ditches shall be graded t by Engineer in field.
8	2212-0475095	CLEANING AND PREPARATION OF BASE	MILE	0	This bid item includes: miles of ramps, miles of two lane ros SB/WB four lane roadway
9	2212-5070310	PATCHES, FULL-DEPTH REPAIR	SY	0	Refer to Tabulation 102-6C for additional information.
10	2212-5070330	PATCHES BY COUNT (REPAIR)	EACH	0	
11	2212-5075001	HOT MIX ASPHALT SURFACE PATCHES	TON	0	Placement areas to be determined by Engineer.
12	2214-5145150	PAVEMENT SCARIFICATION	SY	0	Refer to Typical MK-1 and Tabulation 100-25 and 102-16 for additiona
13	2301-0690203	BRIDGE APPROACH, BR-203	SY	0	Refer to Tabulation 112-6 for additional information.
14	2303-1032500	HOT MIX ASPHALT STANDARD TRAFFIC, INTERMEDIATE COURSE, 1/2 IN. MIX	TON	0	Refer to Typicals MK-1, MK-2, MK-3 and 7149 and Tabulations 100-25 quantities include an additional 5% for irregularities.

### rence Notes

nust be disposed of according to Iowa Department of Agriculture ore information see <u>www.iowatreepests.com</u>." Refer to

n.

or shall supply all fill material needed. Removal of small brush or Grade to a slope consistent with the existing fore slope.

be used for this work with approval from the Engineer.

g to the sub grade elevations, spread the stockpiled topsoil to an ockpile area as per section 2601.05 of the standard specifications. bid item.

minimum of 4 inches of topsoil. Topsoil from stripping and g of topsoil for placement of fill is considered incidental to this bid tion.

to this work.

on. Item is for guardrail paving.

r strengthening on all four sides of bridges with approach work. to installation for opposite side work.

d to a minimum of 1% to provide positive drainage, as determined

roadway\_\_\_\_ miles of NB/EB four lane roadway\_\_\_\_ miles of

nal information.

-25 and 112-9 for additional information. Estimated project

Item no.	Item Code	Item	Unit	Quantities Estimated	Estimate Refer
110.				Roadway Items	
15	2303-1033503	HOT MIX ASPHALT STANDARD TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, FRICTION L-3	TON	0	
16	2303-1033753	HOT MIX ASPHALT STANDARD TRAFFIC, SURFACE COURSE, 3/4 IN. MIX, FRICTION L-3	TON	0	
17	2303-1053503	HOT MIX ASPHALT VERY HIGH TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, FRICTION L-3	TON	0	
18	2303-1133503	HOT MIX ASPHALT STANDARD TRAFFIC, SURFACE COURSE, 1/2 IN. MIX, FRICTION L-3	SY	0	
19	2303-1258283	ASPHALT BINDER, PG 58-28S, STANDARD TRAFFIC	TON	0	
20	2303-6911000	HOT MIX ASPHALT PAVEMENT SAMPLES	LS		
21	2303-7000610	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA MIXTURE LABORATORY VOIDS (FORMULA - BY PAY FACTOR)			
22	2303-7000620	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA MIXTURE FIELD VOIDS (FORMULA - BY PAY FACTOR)			
23	2303-9093010	HOT MIX ASPHALT, DRIVEWAY	SY		
24	2315-8275030	SURFACING, DRIVEWAY, CLASS C GRAVEL	TON		
25	2315-8275036	SURFACING, DRIVEWAY, CLASS D CRUSHED STONE	TON		
26	2315-8275055	SURFACING, DRIVEWAY	TON		
27	2317-7000120	PAYMENT ADJUSTMENT INCENTIVE/DISINCENTIVE FOR HMA PAVEMENT SMOOTHNESS (BY SCHEDULE)			
28	2318-1001100	COLD IN-PLACE RECYCLED ASPHALT PAVEMENT	SY		
29	2318-1001220	ASPHALT STABILIZING AGENT (FOAMED ASPHALT)	TON		
30	2401-6745650	REMOVAL OF EXISTING STRUCTURES	LS		Refer to Tab on SheetThis item shall consist of remo are shown in tab 190-63. The brackets, angles, and all fasteners shall become the prop circuit to the bracket shall be removed back to a covered junction box be capped and any unused wire removed from the conduit if possible. Measurement: Lump Sum Payment: The Contractor shall be paid the lump sum contract price fo in tab 190-63. This payment shall be full compensation for furnishing a for the performance of all work necessary for removal of all the sign se
31	2402-2720100	EXCAVATION, CLASS 20, FOR ROADWAY PIPE CULVERT	СҮ		Refer to Tab. 104-3 on Sheet
32	2435-0600010	MANHOLE ADJUSTMENT, MINOR	EACH		
33	2435-0600020	MANHOLE ADJUSTMENT, MAJOR	EACH		

## erence Notes

moval of bridge mounted brackets for type B signs. The locations

roperty of the Contractor. Any electric ox or breaker box. Any stub wires shall le.

for all the bridge brackets listed ig all material, equipment, and labor a support structures from the project.

SHEET C.2

				Quantities	
Item	Item Code	Item	Unit	Estimated	Estimate Refer
no.				Roadway Items	
34	2435-0600110	INTAKE ADJUSTMENT, MINOR	EACH		
35	2435-0600120	INTAKE ADJUSTMENT, MAJOR	EACH		
36	2502-8212034	SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.	LF		
37	2502-8225010	SUBDRAIN OUTLET, 500-10	EACH		
38	2503-0500402	BRIDGE END DRAIN, DR-402	EACH		
39	2505-4008120	REMOVAL OF STEEL BEAM GUARDRAIL	LF		
40	2505-4008300	STEEL BEAM GUARDRAIL	LF		
41	2505-4008410	STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION, BA-201	EACH		
42	2505-4021010	STEEL BEAM GUARDRAIL END ANCHOR, BOLTED	EACH		
43	2505-4021020	STEEL BEAM GUARDRAIL END ANCHOR, W-BEAM	EACH		
44	2505-4021030	STEEL BEAM GUARDRAIL END ANCHOR, THRIE BEAM	EACH		
45	2505-4021720	STEEL BEAM GUARDRAIL TANGENT END TERMINAL, BA-205	EACH		
46	2505-4021722	STEEL BEAM GUARDRAIL TANGENT END TERMINAL, BA-225	EACH		
47	2507-3250005	ENGINEERING FABRIC	SY		Refer to Tab. 100-23. Use material specified for embankment erosion control according to A Material will be measured in sq. yds. of actual area covered. Refer to details. 
48	2507-6800061	REVETMENT, CLASS E	TON		Refer to Tab. 100-23. 

rence Notes
Article 4196.01, B, 3.
eering Fabric" specific cludes
osion control in accordance with c shall be material as specified for embankment erosion control,
et
nent, Class E" to pecific locations % additional
ts of Article 4130. Broken Concrete and granite is not allowed. at 1.62 Ton/CY.

				Quantities	
Item	Item Code	Item	Unit	Estimated	Estimate Refer
no.				Roadway Items	
49	2507-8029000	EROSION STONE	TON		Refer to Tab. 100-23.
					The tabulation includes estimated locations for placement of "Erosion S address erosion to be encountered during construction. Verify the spec locations with the Engineer prior to beginning placement. Bid item inclu 30% additional quantity for other locations of erosion. Estimated at 1.6 ton/cu yd.Erosion Stone shall meet the requirements Refer to details on Sheet B.1 and locations on sheet D.1.
50	2511-0301600	RECREATIONAL TRAIL, HOT MIX ASPHALT, 6 IN.	SY		See traffic control plan for pedestrian staging or closings
51	2511-7526005	SIDEWALK, P.C. CONCRETE, 5 IN.	SY		See traffic control plan for pedestrian staging or closings.
52	2511-7526008	SIDEWALK, P.C. CONCRETE, 8 IN.	SY		
53	2511-7528101	DETECTABLE WARNINGS	SF		
54	2511-7528150	PEDESTRIAN CHANNELIZER	LF		
55	2512-1725156	CURB AND GUTTER, P.C. CONCRETE, 1.5 FT.	LF		
56	2520-3350010	FIELD LABORATORY	EACH		
<del>57</del>	<del>2520-3350015</del>	FIELD OFFICE	EACH		
	lab only. No fiel				Refer to Tabulation 190-62 for location and details. Item is for the removal of sheet aluminum, galvanized sheet or plywood wood/steel posts, overhead truss or another sign. Measurement: Each. The Engineer will count the number of Type A sig Payment: The Contractor will be paid the contract unit price for each T
59	2524-6765210	REMOVAL OF TYPE A SIGN ASSEMBLY	EACH		Refer to Tabulation 190-62 for location and details. This item for the removal of Type A Sign Assemblies, including the sign structures and hardware. Contractor shall carefully dismantle each sign hardware shall become property of the Contractor. Sign panels shall be delivered to the nearest DOT maintenance facility. All holes resulting fr level with the adjacent grade with backfill material conforming to the St Measurement: The Engineer will count the number of sign assemblies Payment: The Contractor will be paid the contract unit price for each sign
60	2524-9081290	CONCRETE FOOTING FOR BREAKAWAY SIGN POST, 2'-8" DIA. X 9'-0"	EACH		Refer to Tabulation(s) 190-50 (and 190-51) for details.
61	2524-9275100	WOOD POSTS FOR TYPE A OR B SIGNS, 4 IN. X 4 IN.	LF		Refer to Tabulation(s) 190-50 (and/or 190-51, and/or 190-61) for locati
62	2524-9276021	PERFORATED SQUARE STEEL TUBE POST ANCHOR, BREAK-AWAY SOIL INSTALLATION	EACH		Refer to Tabulation(s) 190-50 and/or 190-51 for locations and details.
63	2524-9278046	STEEL BREAKAWAY SIGN POSTS, RECTANGULAR TUBE, 4" X 6"	LF		Refer to Tabulation 190-51 for locations and details.
64	2524-9325001	TYPE A SIGNS, SHEET ALUMINUM	SF		Refer to Tabulation 190-51 and 190-66 for locations and details.

Design Team :Nickolas Humpal County Name :Black Hawk Project Number:NHSX-058-1(100)--3H-07 03/25/2022 4:46 PM

## rence Notes

on Stone" to pecific ncludes

ts of Article 4130. Broken Concrete and granite is not allowed.

ood sign panel from its support structure ie:

sign panels removed.

n Type A sign panel removed.

sign panels, sign brackets, supporting sign assembly. Sign posts, brackets and Il become property of the DOT and shall be g from removal of post shall be filled e Standard Specifications.

es removed.

sign assembly removed.

ations and details.

5.

SHEET C.4

Item no.	Item Code	Item	Unit	Quantities Estimated Roadway Items	Estimate Refer
65	2524-9325150	INSTALL TYPE A SIGN	EACH		Refer to Tabulation 190-51 and the project plans for locations and deta
					The Contractor shall furnish all necessary hardware to install the Type
					Method of Measurement: The Engineer will count each Type A sign ins
					Basis of Payment: The Contractor shall be paid the contract unit price Payment is full compensation for erecting the signs complete, except foundations.
66	2525-0000120	REMOVAL OF TRAFFIC SIGNALIZATION	LS		
67	2526-8285000	CONSTRUCTION SURVEY	LS		Refer to TC-283 for traffic control layout.
					Staking in the S Sheets is incidental to Construction Survey. This staking as verifying slopes of the form work by using a level, or other means, a identified in the S Sheets. This serves as an additional check to verify tolerances prior to placing concrete. Survey information provided in pro- purposes related to construction survey. Project plans and associated electronic standard coordinate system and should not be used to establish const
					Prior to construction, perform a survey to lay out the proposed grading The GPS Machine Control Grading data files as listed in the current sta at contractor's request. No additional files or formats will be provided. A the Contractor shall prepare a topographic survey, using the established grades. The survey shall indicate the established baselines and the fin all grading areas. The Contractor shall provide the Engineer and the O electronic surface files in LandXML format. Provide electronic data and Construction Engineer Iowa Department of Transportation, 800 Lincolr {515}956-7203, Alan.Beddow@iowadot.us.
68	2527-9263109	PAINTED PAVEMENT MARKING, WATERBORNE OR SOLVENT-BASED	STA		Refer to Tab. 108-22 on Sheet and Sheet J
69	2527-9263118	PAINTED PAVEMENT MARKINGS,	STA		
70	2527-9263131	WET RETROREFLECTIVE REMOVABLE TAPE MARKINGS	STA		
71	2527-9263137	PAINTED SYMBOLS AND LEGENDS, WATERBORNE OR SOLVENT-BASED	EACH		
72	2527-9263180	PAVEMENT MARKINGS REMOVED	STA		Refer to Tab. 108-22 on Sheet and Sheet J
73	2527-9270111	GROOVES CUT FOR PAVEMENT MARKINGS	STA		
74	2527-9270120	GROOVES CUT FOR SYMBOLS AND LEGENDS	EACH		
75	2528-2518000	SAFETY CLOSURE	EACH		
76	2528-8400048	TEMPORARY BARRIER RAIL, CONCRETE	LF		Refer to Sheet J and Tab. 108-33 on Sheet All temporary barrier rail shall be nominal 12'-6 long concrete units. Temporary barrier rail shall be a combination of xx nominal 12'-6 long 20' long steel units.

## rence Notes

etails.

be A signs except where noted otherwise.

installed.

ce for each Type A sign installed. ot for the required posts and

aking will be defined , at the quadrants fy slopes are within roject plans is for reference only and should not be used for

nic files are not geo-referenced to a struction survey baselines.

ng design per Section 2526.01. standard specifications will be made available d. After finished grading and prior to seeding, shed baselines to show conformance to the proposed finished grades shown in 0.5 foot contours. Survey e Office of Location and Environment with the and survey copies to Alan Beddow, Mitigation ooln Way, Ames, Iowa, 50010, phone number

### ig concrete units and xx nominal

Ite nc	Item Code	Item	Unit	Quantities Estimated		Estimate Refer
				Roadway Items		
7	2528-8400256	TEMPORARY TRAFFIC SIGNALS	EACH		Refer to Tab. 108-28 on Shee	et
73	3 2528-8445110	TRAFFIC CONTROL	LS		Refer to Traffic Control Plan of Reference Plan of Refere	
79	9 2528-8445113	FLAGGERS	EACH		(Designer should enter a qua See Proposal.	untity of 0)
8	2528-8445115	PILOT CARS	EACH			
8	L 2529-2242304	CD JOINT ASSEMBLY	EACH			
8	2 2529-8174010	SUBBASE (PATCHES)	SY			
8	3 2529-8174020	SUBBASE PATCH WITH EF JOINT	SY			
8	2529-8174050	PATCH SUBDRAIN	EACH			
8	5 2533-4980005	MOBILIZATION	LS			
8	5 2548-0000310	MILLED CENTERLINE RUMBLE STRIPS, HMA SURFACE	STA			
8		TEMP CRASH CUSHION	EACH		Winterize sand filled or water if they are to remain in place	filled crash cushions according to the ma
8		FERTILIZING	ACRE	3	in they are to remain in place	
8	2601-2636043	SEEDING AND FERTILIZING (RURAL)	ACRE	Has the disturbed	Seed and fertilize all areas 8 area been determined to	foot adjacent to the shoulder mainline, m Standard Specifications. Use ground di
90	2601-2636044	SEEDING AND FERTILIZING (URBAN)	ACRE	know if a PPP is no		e Engineer. d seed according to Article 2601.03, C, 4
9	L 2601-2642100	STABILIZING CROP - SEEDING AND FERTILIZING	ACRE		If permanent seeding cannot on all disturbed areas as tem with Section 2601. Stabilizing seeding. If stabilizing crop must be use areas will be required at cont period.	areas. In areas according to Article 2601.03, C, be placed due to the restrictive planting of porary erosion control. Preparation and s g crop will not be used when the application ed, place immediately following completion tractors expense if damage occurs due to tabilizing crop in locations that have be control
9	2 2601-2642120	STABILIZING CROP - SEEDING AND FERTILIZING (URBAN)	ACRE			areas as directed by the Engineer. isturbed areas according to Article 2601.0

, medians, and side according I driven equipment.

C, 4, of the Standard Specifications.

C, 1, of the Standard Specifications. ng dates, stabilizing crop will need to be placed nd seeding shall be performed in accordance cation dates in Section 2601 allows permanent

etions of finished grading. Reseeding of these to contractors negligence during the contract

covered by Wood Excelsior Mat.

01.03, C, 2, of the Standard Specifications.

	Ttom				Quantities	
	Item no.	Item Code	e Item		Estimated	Estimate Refer
					Roadway Items	
	93	2602-0000030	SILT FENCE FOR DITCH CHECKS	LF		<ul> <li>(Grading Projects) Refer to Tab 100-18.</li> <li>The tabulation includes estimated locations for placement of "Silt Fence to address erosion to be encountered during construction. Verify the sp with the Engineer prior to beginning placement. Bid item includes 50% for field adjustments and replacements.</li> <li>(Paving Projects) Refer to Tab 100-18.</li> <li>The tabulation includes estimated locations for placement of "Silt Fence to address erosion to be encountered during construction. Verify the sp with the Engineer prior to beginning placement. Bid item includes tab of paving project for new locations and 10% of the original tab quantity for project (insert original tab quantity from the grading project) for field ad part of the placement.</li> </ul>
		2.00 000074		. –		and replacements.See Standard Note 232-10 and Standard Road Plan adjust silt fence locations to fit field conditions.
	94	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF		This item is included for silt fence and silt fence for ditch check remova staging reasons, removal to allow for replacement (replacement to be or for areas that have achieved 70% permanent growth. This item is inc Remove silt fence and posts after mulching or vegetation is establishe
	95	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	LF		<ul> <li>(Grading Projects)</li> <li>This item is included for clean-out and repair of the silt fence and silt fence checks during the project.</li> <li>(Paving Projects)</li> <li>This item is included for maintaining the new silt fence and silt fence durinstalled for the paving project and existing silt fence and silt fence ditorinstalled as part of the grading project.</li> </ul>
	96	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.	LF		(Use this note if specific locations have been determined) Refer to Tab. 100-19. The tabulation includes estimated locations for placement of "Perimeter Control Device, 12 in. dia." to address erosion to be encountered durin Verify the specific locations with the Engineer prior to beginning placer includes 25% additional quantity for field adjustments and replacemen Use Perimeter and Slope Sediment Control Devices fabricated using v (Use this note if specific locations have not been determined) Item is included for temporary perimeter sediment control, inlet protect velocity reduction on slopes or ditches at locations to be determined during Verify specific locations with the Engineer prior to beginning placement Use Perimeter and Slope Sediment Control Devices fabricated using v
	97	2602-0000351	REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE	LF		
6	98	2602-0000400	TEMPORARY INTAKE OR MANHOLE COVER ASSEMBLY	EACH	Where	is this
F					proposi	
م						
	L Deste	n Team :Nicko]	las Humpal County Name :Black Hawk P	roject I	vumper:NHSX-058-1(100)-	3H-07 03/25/2022 4:46 PM

Design Team :Nickolas Humpal County Name :Black Hawk Project Number:NHSX-058-1(100)--3H-07 03/25/2022 4:46 PM

### erence Notes

ence for Ditch Checks" e specific locations D% additional quantity

ence for Ditch Checks" e specific locations b quantities for the *v* for the grading adjustments Plan EC-201. See Sheet X.X for locations. The engineer may

oval required for be paid separately), s included for silt fence and silt fence for ditch check removal. shed and approved by the engineer.

fence for ditch

e ditch checks ditch checks

eter and Slope Sediment uring construction. cement. Bid item ents.

wood excelsior.

ection, and water d during construction. ient.

wood excelsior.

	Item no.	Item Code	Item	Unit	Quantities Estimated	Estimate Refer
					Roadway Items	
	<del>99</del>	<del>2602-0000410</del>	MAINTENANCE OF TEMPORARY INTAKE OR MANHOLE COVER ASSEMBLY	<del>EACH</del>		
	<del>100</del>	<del>2602-0000420</del>	REMOVAL OF TEMPORARY INTAKE OR MANHOLE	EACH		
	101	2602-0000500	OPEN-THROAT CURB INTAKE SEDIMENT FILTER, EC-602	ĹF	3	
$\left  \right\rangle$	102	2602-0000510	MAINTENANCE OF OPEN-THROAT CURB INTAKE SEDIMENT FILTER	EACH	3	
$\left\{ \right\}$	103	103 2602-0000520 REMOVAL OF OPEN-THROAT CURB INTAKE	REMOVAL OF OPEN-THROAT CURB INTAKE SEDIMENT FILTER	EACH	Where are these items proposed?	
6	104	2602-0000530	GRATE INTAKE SEDIMENT FILTER BAG	EACH	$\langle $	
2	105	2602-0000540	MAINTENANCE OF GRATE INTAKE SEDIMENT FILTER BAG	EACH	7	
ξ	106	2602-0000550	REMOVAL OF GRATE INTAKE SEDIMENT FILTER BAG	EACH	3	
	107	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH	$\mathcal{S}$	
	108	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH		

erence	Notes

# ESTIMATED PROJECT QUANTITIES AND REFERENCE NOTES

Item	Unit	Quantities Estimated Roadway Items	Estimate Refer
GRANULAR SHOULDERS, TYPE B	TON		Refer to Typical 7110 and Tabulation 112-9. Requires XXX cu. yds. of earth shoulder fill, available within the ROW OR to be provided by the Contractor, which shall be considered incidental
SHOULDER CONSTRUCTION, EARTH	STA		Includes Sta. of ft wide shoulders on mainline,         ft shoulders on mainline, and Sta. of ft wide         on sideroads.            cu. yds. of Class 10 for Earth Shoulder Fill.         No payment for overhaul allowed for this material. Material is available         from Borrow
EXCAVATION, CLASS 13, FOR WIDENING	CY		Refer to Tab on Sheet and Typical on Sheet
HOT MIX ASPHALT STANDARD TRAFFIC, BASE COURSE, 3/4 IN. MIX	TON		
ASPHALT BINDER, PG 58-28S, STANDARD TRAFFIC	TON		
FLAGGERS	EACH		(Designer should enter a quantity of 0) See Proposal.
PILOT CARS	EACH		
MOBILIZATION	LS		
MILLED SHOULDER RUMBLE STRIPS, HMA SURFACE	STA		
ASPHALT EMULSION FOR FOG SEAL (SHOULDER RUMBLE STRIPS)	GAL		
ASPHALT EMULS	•		

only 4 feet of the 6 feet paved shoulder will be in HSIPX category. The other 2 feet will be in the NHSX project.

## rence Notes

W from Sta. XXX+XX to Sta. XXX+XX

tal to this bid item.

\_\_\_\_ Sta. of ide shoulders

ble

e 2105.03,B

et \_\_\_\_\_.

## 100-1D 10-18-05

### **PROJECT DESCRIPTION**

The NHSX-058-1(100)--3H-07 project includes mill 1.5 feet, nominal 28 feet wide in Hudson, Cold in Place recycling 4 inches nominal 28 feet wide to 4 lane section, 3 inch HMA resurfacing over whole project, patching, culvert repairs, ditch cleaning, longitudinal subdrain, bridge approaches, guardrail and erosion control. The HSIPX-058-1(101)--3L-07 project will add 4 foot wide, 5 inch deep HMA shoulders along with rumble strips on both sides for the length

111-25 10-18-11 INDEX OF TABULATIONS Tabulation Title Sheet No. Tabulation C Sheets 100-1D PROJECT DESCRIPTION C.11 UTILITIES 100-1U C.11 EROSION CONTROL FOR INTAKE OR MANHOLE WELL 100-11 C.12 TABULATION OF SILT FENCES 100-17 C.12 SILT FENCES FOR DITCH CHECKS C.12 C.12 100-18 PERIMETER, SLOPE AND DITCH CHECK SEDIMENT CONTROL DEVICES 100-19 ROCK EROSION CONTROL 100-23 C.14 HMA PAVEMENT C.16 - C.18 100-25 PROPOSED POSTED SPEED LIMIT 100-27 C.11 STORMWATER DRAINAGE BASIN AND STORAGE 100-34 C.13 OPEN-THROAT CURB INTAKE SEDIMENT FILTER 100-36 C.12 100-37 GRATE INTAKE SEDIMENT FILTER BAG C.12 ACCESS POINTS AND SAFETY RAMPS 102-3 C.15 102-5 EXISTING PAVEMENT C.12 FULL-DEPTH PATCHES 102-60 C.14 NOTCHES AND RUNOUTS FOR RESURFACING C.15 102-16 300-1 DTTCH RESHAPTNG C.14 TOPSOIL STRIPPING AND PLACEMENT 103-10 C.12 104-54 INTAKES AND UTILITY ACCESSES C.13 BRIDGE END DRAINS (WITH LETDOWN) 104-8B C.20 LONGITUDINAL SUBDRAIN SHOULDER AND BACKSLOPE 104-9 C.14 ADJUSTMENT OF FIXTURES 104-10 C.13 REBUILDING OF INTAKES AND UTILITY ACCESSES 104-11 C.13 FORESLOPE FLATTENING AND DRAINAGE STRUCTURES BY ROAD CONTRACTOR (MAINLINE PIPES) 104-13 C.14 105-4 STANDARD ROAD PLANS No Sheet No GRADING FOR GUARDRAIL INSTALLATIONS 107-23 C.19 STEEL BEAM GUARDRAIL AT CONCRETE BARRIER OR BRIDGE RAIL END SECTION 108-8A C.19 108-8B STEEL BEAM GUARDRAIL FOR SIDE OBSTACLE (TWO-WAY PROTECTION) C.20 108-22 PAVEMENT MARKING LINE TYPES C.21 108-28 TEMPORARY TRAFFTC STGNALS C.20 PAVEMENT MARKING SYMBOLS AND LEGENDS 108-29 C.21 CRASH CUSHIONS 108-30 C.20 TEMPORARY BARRIER RAIL 108-33 C.20 110-1 REMOVAL OF PAVEMENT C.15 REMOVAL OF EXISTING STRUCTURES 110-2 C.15 110-4 CURB REMOVAL C.15 110-5 SIDEWALK REMOVAL C.15 REMOVAL OF STEEL BEAM GUARDRAIL 110-7A C.20 110-13 DELIVERY AND STOCKPILING C.15 REMOVAL OF INTAKES AND UTILITY ACCESSES 110-15 C.13 110-17 CLEARING AND GRUBBING C.12 111-25 INDEX OF TABULATIONS C.11 112-4 CURBS AND RAISED ISLANDS C.13 112-6 BRIDGE APPROACH SECTION C.20 112-9 SHOULDERS C.18 - C.19 112-10 MILLED RUMBLE STRIPS C.21 SIDEWALKS C.22 113-1 SIDEWALKS 113-1A C.22 MATERIALS FOR TYPE 'A' SIGNS 190-51 C.22 190-61 EXISTING SIGNS TO BE REINSTALLED C.22 EXISTING SIGNS TO BE REMOVED C.22 190-62 190-66 SUMMARY OF TYPE 'A' SIGNS C.22

### 262-6 10-18-05 UTILITIES (NOT A POINT 25 PROJECT)

This is NOT a POINT 25 project and is not subject to the provisions of IAC 761-115.25.

### 100-27 04-17-18 **PROPOSED POSTED SPEED LIMIT** Proposed Posted Speed Limit Road Identification Begin Station End Station Remarks 5 or less 40 - 45 over 45 804+45.00 762+35.00 1045+56.00 804+45.00 х

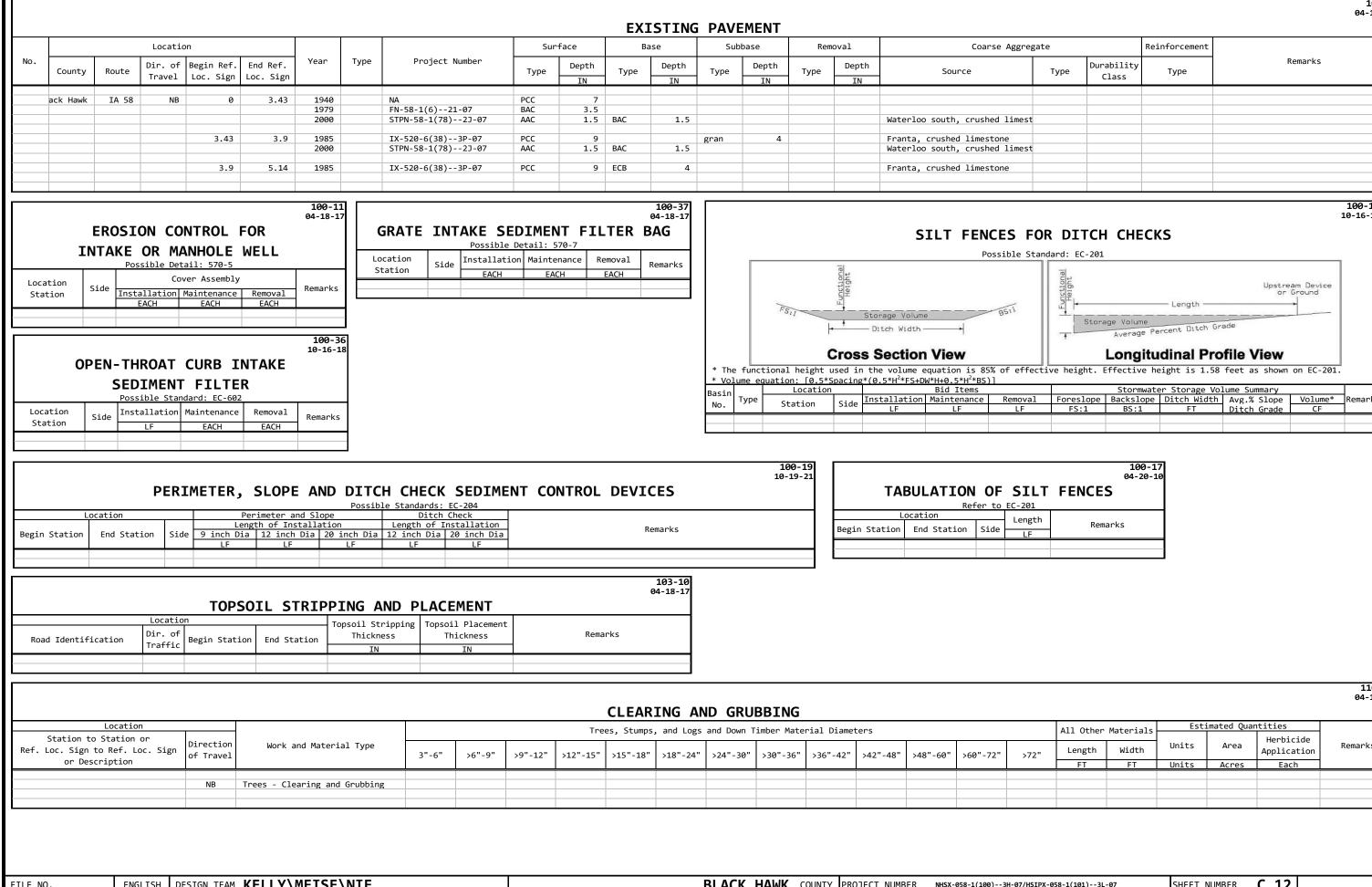
		FILE NO.	ENGLISH	DESIGN TEAM KELLY\MEISE\NIE	BLACK HAWK COUNTY	PROJECT NUMBER	NHSX-058-1(100)3H-07/HSIPX-05
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of the project.

## UTILITIES

100-1D 10-18-05

058-1(101)3L-07	SHEET NUMBER	C.11	



I ILL NO	•	LINGLISH		BLACK HAWK COUNT
3/23/2022	1:53:15 PM	tmeise	c:\pw_work\pwmain\tmeise\d1449552\0758100C.xlsm	

			102-5 04-18-17
2		Reinforcement	
Туре	Durability Class	Туре	Remarks

100-18 10-16-1

	Stormwate	er Storage Vol	Lume Summary		
Foreslope	Backslope	Ditch Width	Avg.% Slope	Volume*	Remarks
FS:1	BS:1	FT	Ditch Grade	CF	

					110-17 04-18-17
All Other	Materials	Esti	imated Quar	ntities	
Length	Width	Units	Area	Herbicide Application	Remarks
FT	FT	Units	Acres	Each	

-058-1(101)3L-07	SHEET NUMBER	C.12	

					STORM	ATER DRAINAG Refer to EC Standai	rds and 570s	Details.	STORAGE	E		
Basin No.	Drainage Basin L Station to Station	Side Discharge Point Station Si	Disturbed with	turbed Area th Storage Provided Acres	Disturbed Area without Storage Provided Acres	Summary of Sto Best Manageme		ge		al Storage me Provided CF	Total Storage Volume Required CF	Storage Volume Me Yes/No
		INTAKES AN	D UTILITY	ACCESS	ES	104-5A 10-15-13					ADJUST	MENT O
	SW-545	Form Grade Bottom Well Elev. Elev.	Extension Length** FT		Notes		NO	cation tation	Type of Manhole water valve water valve water valve water valve		woods st woods st eldora rd eldora rd	
No.	Location	UILDING OF INT	AKES AND U	TILITY Adjustm		104-11 08-01-08			water valve water valve		eldora rd	
	Station					110-15 04-16-13	1 Item			Island	CURBS A Refer to ,	
No.	REI Location/De	MOVAL OF INTA	<b>(ES AND UT</b> ) Type	LITY A	ACCESSES Remarks		Point No.	Statio	n Offse	t <u>Ar</u>	rea 1 SY	Curb Type

FILE NO.	ENGLISH	DESIGN TEAM KELLY\MEISE\NIE	BLACK HAWK COUNTY	PROJECT NUMBER	NHSX-058-1(100)3H-07/HSIP SHEET NU	MBER <b>C.13</b>	
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### 100-34 10-17-17

-	
nge Met?	Remarks
No	

104-10 08-01-08

## **FIXTURES**

Adjustment

112-4 10-21-14

### SED ISLANDS Detail Series.

Detail Serie

Curb and	d Gutter		
e	Gutter Width	Length (1)	Remarks
e	FT	LF	

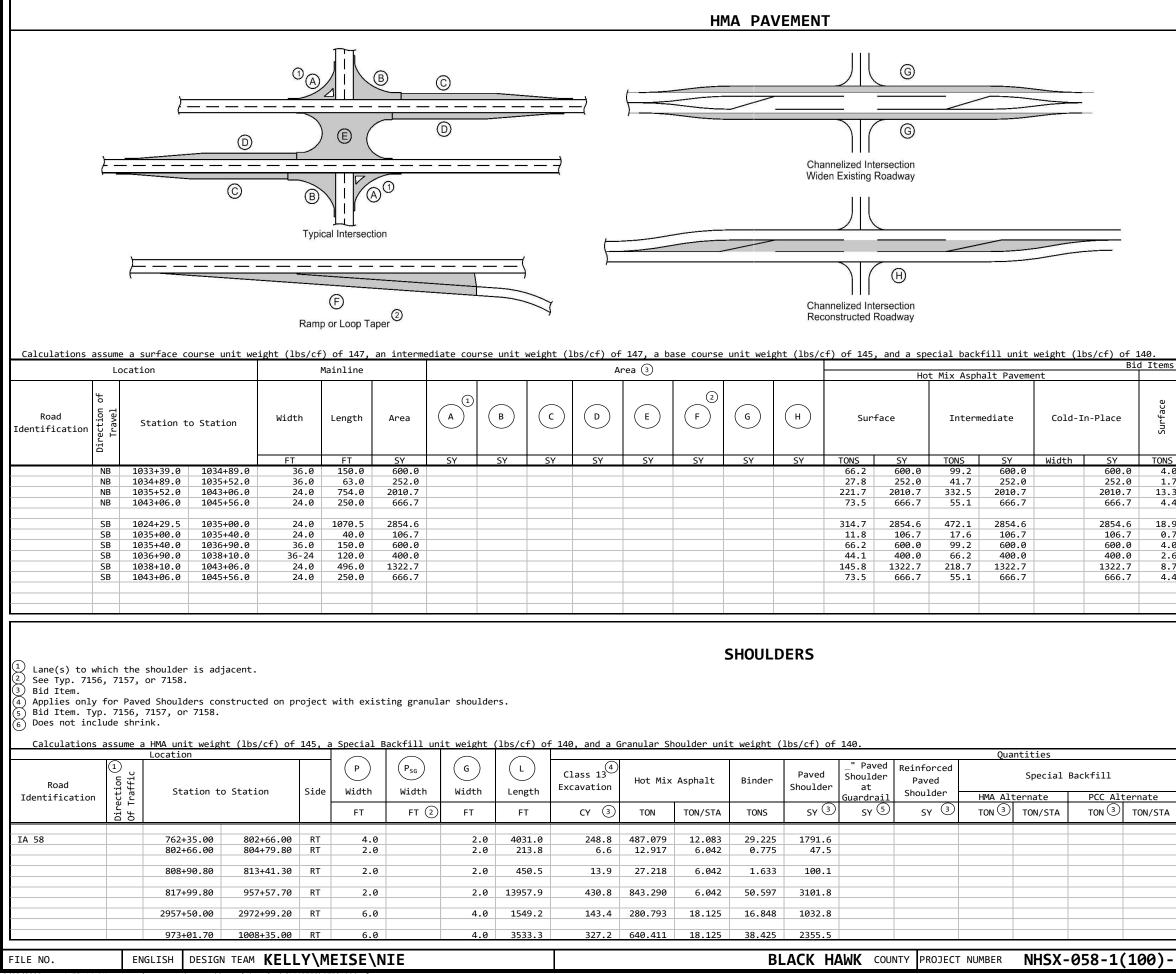
Image: Normation         Image: Normation<						De-					-105 and DD 14	10								04-
a       bit data       bit da	<u>.</u>	Location	Dimensi	on				-101, PR-1	72, PR-103,						1.551	Annahan				
Image: 10 minute     Image: 10 minute <th>ount Stati</th> <th>ion</th> <th>Length Width</th> <th></th> <th>Dowels</th> <th>Dowels</th> <th>Dowels</th> <th></th> <th></th> <th>Patches</th> <th>w/ 'EF' Joint</th> <th>t Patch Subdrain</th> <th>Joints</th> <th>Joints</th> <th>Joints</th> <th>Lugs</th> <th></th> <th></th> <th>Remarks</th> <th></th>	ount Stati	ion	Length Width		Dowels	Dowels	Dowels			Patches	w/ 'EF' Joint	t Patch Subdrain	Joints	Joints	Joints	Lugs			Remarks	
DECREPANCE DECREPANCE         De Dia			FT FT	IN				SY	TON							No.				
DECREPANCE DECREPANCE         De Dia																				
DECREPANCE DECREPANCE         De Dia					· ·								•	· ·						1
	lot a bid item.	. Bridge berm quantities assume a t	rench depth of 24	4 inches.		LONGI	TUDINAL S				ND BACKS	SLOPE								10
Intering the state is state in the stat		Location	Depth										Class "	'A"*						
Image: International internatione internatinternatintered international international internation	Road or L	ane Station to Station		Shoulder						DR-303, L	-	Backfill						Remarks		
NR.         1 48, 16         2 100, 20         1         100, 10         100, 20         100,	Identifica	ition Station to Station			°	5				Station										
<section-header></section-header>	. NBL	1+00.00 2+00.00				FT		IN	FT	1+00.00										
<section-header><text></text></section-header>										2+00.00	D	R-306		9706	lf needed					
Station         Size and Type of Culvert         Up         Culvert	a bid item		New In-	formation	Length of New	Flow Line	Refer to Sta	ndard Road P Dimensions	lans DR-121	, DR-122, a	nd DR-213. and Reinstalla Aprons and Culve	ation of Culvert Pipes ert Sections	New Apro	on Apron Guard*	Type Connect	ions*	Pipe Joint*		Class 20	Remarks
100000 8467-32 8467-32 9122-8467 9122-857 9122-95	Location	Size and Type of Culvert					•				Left Side	Right Side		, ,			, ,	CY	CY	
819-23.1       ************************************	700.05													101						
85:0-3.1       2'-2.5'2.6'       cstended val's R0P       Image: constant of the second value of the second																				
8662       30 * x 60* 007       0			P																	
871-463       6 *****57**68       6 *****57**68       6 *****57**68       6 *****57**68       6 *****57**68       6 *****57**68       6 *****57**68       6 *****57**68       6 *****57**68       6 *****57**68       6 *****57**68       6 *****57**68       6 *****57**68       6 ******68       6 ******68       6 ******68       6 ******68       6 ************************************	866+82	32" x 60' RCP	·																	
89910       24" x 72" K0P       1		6'x4'x57' RCB																		
002406.8     3'3' 77' 76'     0																				
937462     3'x3'x5' K6     0 <td></td>																				
051409.0     2'2'2'x65' RC8     0 <th< td=""><td>937+46.2</td><td>3'x3'x62' RCB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	937+46.2	3'x3'x62' RCB																		
2963-90       36" x 72" RCP       Image: station of the statio																				
97448       15*54*       1	956+07	2'x2'x69' RCB																		
978-85       24" x 63' RCP       0	2963+90	36" x 72' RCP																		
88/24" x 48" RCP       24" x 48" RCP       100 100 <th< td=""><td></td><td></td><td></td><td>  </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>																				
1006+95       36" x 52' RCP       Image: Constrained by the state of the	987+58	24" x 48' RCP		ļ																
1019+25       24" x 60" RCP       Image: constraint of the state of the s																				
Location     Remarks       Station     Length (STA)       Kod Identification     Begin Station       Kod     Station       Location     Interview       Kod Identification     Begin Station       Station     Station       Kod     Station       K	1019+25	24" x 60' RCP																		
Location     Remarks     Station     Location     Station     End     Station																				
DITCH RESHAPING     Accision for the construction of the constructio			103-5																	
Image: condition     Remarks       Station     Length (STA)       Image: condition     Remarks       Station     Length (STA)       Image: condition     Remarks		DITCH RESHAPING																		
Station       Length (STA)       Road Identification       Begin Station       End Station       Side       L       No.ck       Rock Ditch       Rock Splash       Rock Sp		ocation Remar	ks			Lo	cation					Rock E	rosion Con		Tvne	2 5				
Image: Description     Image: Description     Image: Description     Symptotic     Symptotic     Symptotic     Symptotic     Symptotic       Image: Description     Image: Description     Image: Description     Symptotic     Sympt	Lo			F	Road Identifi	ication					( W )						-			Remarks
938+00.00     RT     Image: Comparison of the system       951+09.90     LT     Image: Comparison of the system		zengen (Sint)					Station	Station		FT	FT C	Check Ditch	Flume	Basin	Protec	tion	SY	TON	TON	
951+09.90 LT LT							871+38.50													
				IA 58					DT		1		1	1						
				IA 58																
				IA 58			951+09.90		LT											
				IA 58			951+09.90		LT											

ACCESS POINTS AND SAFETY RAMPS         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-502.         *Predetermined for access point not constructed with this project.         Location       Type         Length of Opening (1)       (1) (2)         (1) (2)       (2)         Pipe Culvert (3)       Driveway Surface Area         Driveway       Driveway	
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-502. *Predetermined for access point not constructed with this project. Location Type Length of Opening 1 1 2 2 Pipe Culvert 3 Driveway Surface Location Type Length of Opening 1 1 2 2 Pipe Culvert 3 Driveway Surface	
(1) Refer to MI-210 (2) Refer to EW-501. (3) Refer to EW-502. *Predetermined for access point not constructed with this project. Location Type Length of Opening (1) (1) (2) (2) Pipe Culvert (3) Driveway Surface Area Driveway	
*Predetermined for access point not constructed with this project.         Location       Type       Length of Opening ①       ①       ②       Pipe Culvert ③       Driveway Surface       Driveway         Location       Type       Length of Opening ①       ①       ②       Pipe Culvert ③       Driveway Surface       Driveway	
Length of opening     Image: Constraint of the constraint	
A, B, C, $1\frac{1}{2}$ 3" $\left( W \right) \left( PR \right) \left( SR \right)$ Aprons Aprons Surfacing Remarks	
Station     Side     Safety Ramp, or Predetermined*     Case     Dropped     Dropped     Dropped	
1 or 2       LF       LF       FT       FT       FT       FT       IN       LF       LF       No.       SY       TON	
	10-1 16-13
NOTCHES AND RUNOUTS FOR RESURFACING Refer to PR-201 and PR-202. Refer to Tabulation 102-5	
(1) Bid item. Applies only to Types 'N1' and 'N3' on PR-202. Refer to 100-25 for remaining values. * Not a Bid Item	
LocationType of NoticitSIDDIMScarificationRemarksBeginEndSidePavementAreaSaw Cut*StationINININFTINSYSYStationStationStationStationSidePavementAreaSaw Cut*	
Image: Constraint of the state of	
808+15.75         Type 'NS'         1.5         1.5         75.0         1.5           814+16.25         Type 'NS'         1.5         1.5         75.0         1.5         1.5	L10-2 16-13
958+00.00         1.5-2         1.5-3         212.5         See MK-x           1016+82.71         Type 'N3'         2.0         3.0         250.0         0.0         0.0	10-15
1019+55.21       Type 'N3'       2.0       3.0       250.0       0.0       0.0         1043+06.00       Type 'R2'       2.0       3.0       250.0       0.0       0.0	
763+60.20       Type 'R2'       1.5       1.5       20.0       1.0       S. Washington St         764+06.40       Type 'R2'       1.5       1.5       20.0       1.0       Primrose Dr	
770+57.00       Type 'R2'       1.5       1.5       20.0       1.0       Wood St       08-01-08         775+67.00       Type 'R2'       1.5       1.5       20.0       1.0       School St       CURB REMOVAL         771+17.00       Type 'R2'       1.5       1.5       20.0       1.0       Sunset Dr	
785+57.00       Type 'R2'       1.5       1.5       20.0       1.0       2nd St       Begin       End       Length       Length         790+00.00       Type 'R2'       1.5       1.5       20.0       1.0       Eldora Rd       Station       Station       Station       Remarks	
792+25.00     Type 'R1'     1.5     1.5     20.0     1.0     Griffin St       794+05.00     Type 'R2'     1.5     1.5     20.0     1.0     Battery Park Ln	
802+54.00         Type 'R2'         1.5         1.5         20.0         1.0         5th St           809+95.90         Type 'R2'         1.5         1.5         20.0         1.0         Watters Rd           991+06.80         Type 'R2'         2.0         3.0         50.0         0.0         Ranchero Rd         10-20-15	
991+06.80 Type 'R2' 2.0 3.0 50.0 0.0 Ranchero Rd SIDEWALK REMOVAL	
6570+80.00     Type 'R2'     2.0     3.0     250.0     0.0     SB IA 58 to WB US 20 ramp       1583+60.00     Type 'R2'     2.0     3.0     66.0     0.0     WB US 20 to NB IA 58	
3585+20.00     Type 'R2'     2.0     3.0     250.0     0.0     SB IA 58 to WB US 20 ramp       2585+64.00     Type 'R2'     2.0     3.0     70.7     0.0     WB US 20 to IA 58	
Image: Constraint of the second sec	
110-13	
04-20-10 DELIVERY AND STOCKPILING	
Item Description         Quantity         Units         Delivery Location         Contact Name & Number         Remarks           Image: Second Se	
FILE NO. ENGLISH DESIGN TEAM KELLY/MEISE/NIE BLACK HAWK COUNTY PROJECT NUMBER NHSX-058-1(100)3H-07/HSIP SHEET NUMBER C.15	

													н	MA PA	VEMEN	T													100-2 Modifi
		i	<u> </u>		©@		®	©			₽						 												
	È			0				© 								annelized Int den Existing													
		`	0	ب ب	В	bical Intersed	(A) C			4	Ę							_									aland area for quanti		
		<u> </u>			Ram	F np or Loop 1	Taper <sup>2</sup>									annelized Int constructed									9 PV-410, / includes		₽V-412, and Header.	I PV-414.	
Calculations a		a surface ation	course uni	t weig		<u>f) of 147,</u> Mainline	, an interm	ediate cou	urse unit	weight (]		<sup>∓</sup> 147, a b .rea ③	ase course	e unit we	ight (lbs/	cf) of 145			till unit			140. d Items	Binder		1			1	-
Road . Identification	Direction of Travel	Station	to Station		Width	Length	Area		В	С	D	E	(E)	G	Н	Sur	face		nediate	Cold-In	n-Place	Surface	Intermediate	Foam Asphalt			d Granular Subbase	Pavement Scarification	Remarks
11. 50	В	762+35.0			FT 36.0			SY	SY	SY	SY	SY	SY	SY	SY	TONS 12.4	SY 150.0	TONS 6.2	SY 150.0	Width	SY	TONS 0.7	TONS 0.4	TONS	TONS	CY	SY	SY 150.0	
	B           B           B           B           B           B           B           B           B           B           B           NB           NB           SB	762+72.5 804+79.8 805+54.8 808+15.8 808+90.8 813+41.3 816+24.8 817+99.8 955+45.2 957+57.7 2957+50.6 2964+57.4 2971+64.9	805+54           808+11           808+21           808+21           813+41           814+16           816+22           955+45           955+45           2957+56           2957+56           2971+64           2972+99           2968+48	1.8         5.8         0.8         1.3         5.3         1.8         0.8         5.2         7.7         0.0         7.4         1.9         0.2         3.7	36.0 18.0 18-20.5 20.5 18.0	75.0 261.0 75.0 208.5 175.0 13745.4 13745.4 212.5 707.4 647.5 194.3 1098.7	200.0 200.0 1802.0 200.0 466.7 54981.7 850.0 1414.8 1384.9 442.6 2197.4									1391.5 16.5 16.5 149.0 16.5 38.6 4546.3 82.0 156.0 152.7 48.8 242.3	850.0 1414.8 1384.9 442.6 2197.4	1391.5 8.8 8.8 149.0 8.8 20.6 4546.3 105.4 229.0 73.2 363.4	16829.0 200.0 200.0 200.0 200.0 466.7 54981.7 850.0 1414.8 1384.9 442.6 2197.4	16.5 14.0	1100.4 1097.2 356.2 1709.1	4.9 9.4 9.2 2.9 14.5	83.5 0.5 8.9 0.5 1.2 272.8 6.3 14.0 13.7 4.4 21.8					16829.0 200.0 200.0 1802.0 200.0 466.7	Bridge Bridge CIP CIP tra STA EQ
	SB NB NB NB NB NB NB NB NB NB NB NB NB NB	2968+48.7 2972+99.2 973+01.7 974+95.2 986+26.2 987+81.0 989+01.0 990+51.0 990+51.0 991+59.0 1008+35.0 1008+95.0 1010+45.0 1012+25.0 1012+25.0 1012+25.0 1014+32.7	973+0: 974+9; 986+26 987+8; 989+0: 990+5; 990+5; 1008+3; 1008+3; 1008+3; 1008+3; 1010+4; 1011+0; 1012+2; 1012+29; 1014+3;	1.7           5.2           5.2           5.2           1.0           1.0           5.0	18-22.5 20.5-32.5 32.5-32.5 32.5-44.5 44.5 40.0 30.0 30.0 30.44 44-48 48-56 56-72 34.0 34.0	193.5 1131.0 154.8 120.0 150.0 1676.0 60.0 150.0 60.0 120.0 65.0 142.7	1013.6 440.8 3330.2 559.0 513.3 741.7 480.0 5586.7 200.0 616.7 306.7 693.3 462.2 539.1 944.4			-           -						111.8 48.6 367.2 61.6 56.6 81.8 52.9 615.9 22.1 68.0 33.8 76.4 51.0 59.4 104.1	1013.6 440.8 3330.2 559.0 513.3 741.7 480.0 5586.7 200.0 616.7 306.7 693.3 462.2 539.1 944.4	167.6 72.9 550.7 92.5 84.9 923.9 33.1 102.0 50.7 114.7 76.4 89.2 78.1	440.8 3330.2 559.0	14-18.5 16.5 28.5 28.5 36.0 26.0 26.0 26.0 26.0 26.40 40-44 44-52 52-68 30.0 30.0	813.8 354.8 2827.5 490.2 460.0 675.0 432.0 4841.8 173.3 550.0 280.0 640.0 433.3 475.7 833.3	6.7 2.9 22.0 3.7 3.4 4.9 3.2 37.0 1.3 4.1 2.0 4.6 3.1 3.6 6.2	10.1 4.4 33.0 5.5 5.1 7.4 4.8 55.4 2.0 6.1 3.0 6.9 4.6 5.3 4.7						STA EQ
	NB SB SB	1016+82.7 1019+55.2 1021+25.0 1022+05.2 1022+45.0 1022+80.0 1023+25.0 1024+29.5 973+01.7	1019+59 1021+29 1022+99 1022+99 1022+49 1022+49 1022+49 1022+29 1022+29 1024+29 1024+78	5.2 5.0 5.2 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.2 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0	34.0 32.5 32.5-44.5 42.0 42.0 40.0 40-30 18-30	272.5 169.8 80.2 39.8 35.0 45.0 104.5 48.8 	641.4 289.6 170.2 163.3 210.0 464.5 189.9 									70.7 31.9 18.8 18.0 23.2 51.2 20.9 1214.5	641.4 289.6 170.2 163.3 210.0 464.5 189.9 11016.1	53.0 24.0 28.1 27.0 34.7 76.8 31.4 1821.8	641.4 289.6 170.2 163.3 210.0 464.5 189.9 11016.1	30.0 28.5 8.5-40.5 38.0 38.0 36.0 36-26 14-26	566.0 254.0 152.5 147.8 190.0 418.1 168.2 9180.0	4.2 1.9 1.1 1.1 1.4 3.1 1.3 72.9	3.2 1.4 1.7 1.6 2.1 4.6 1.9 109.3						Bridge
	SB SB	1014+32.7 1014+97.3 ENGLISH	1016+82	2.7	72.0 72-58		1339.1									57.0 147.6 HAWK	516.6 1339.1	42.7 110.7		68.0 68-54 HSX-05	487.9 1256.7	3.4 8.9	2.6 6.6	7/UCT			<u> </u>		

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											Н	1A PA	VEMENT														100-2 Modifie
	<u>}</u>		©@		®	© 			₹						©												
) <del></del>		D				0		)					Chan	nelized Int	G												
<u>(</u>		<u> </u>	 ®		9 <sup>0</sup>			<u> </u>					Wider	n Existing	Roadway												
			Турі	ical Intersect	tion				<u> </u>				-								(1)	Does not	t include	raised is	land area d	or curb.	
	<u> </u>	·					(		)												0	Refer to	o tabulat:	ion 112-4	for quantit V-412, and	ties.	
			Dam	F p or Loop Ta	2			7						nelized Int	ersection						3	Quantity	y include	s Pavement	Header.		
Calculations assur	me a surface course uni	it weig				ediate cou	rse unit	weight (1	bs/cf) of	147, a ba	ise course	unit wei;	ght (lbs/cf	<sup>2</sup> ) of 145	, and a sp	ecial back	fill unit	weight (lt									<u>.                                    </u>
	Location			Mainline					A	rea 3	$\sim$		-		Нс	ot Mix Asph	nalt Paveme	nt	Bi	d Items	Binder	It	-			ion	
Road Good Line Line Line Line Line Line Line Line	Station to Station	n	Width	Length	Area		В	С	D	E	(F)	G	Н	Sur	face	Intern	nediate	Cold-I	n-Place	Surface	Intermediate	Foam Asphal		Modified Subbase		Pavement Scarification	Remarks
SB SB			FT 40-32	FT 272.5 52.1	SY 208.4	SY	SY	SY	SY	SY	SY	SY	SY	TONS 23.0	SY 208.4	TONS 17.2	SY 208.4	Width 36-28	SY 185.2	TONS	TONS 1.0	TONS	TONS	СҮ	SY	SY	Bridge
SB SB SB SB SB SB SB	1020+07.3         1020+6           1020+67.3         1022+0           1022+05.2         1022+8           1022+80.0         1023+2           1023+25.0         1024+2	7.3 5.2 0.0 5.0 9.5	32-30 30.0 30.0 30.0 40.0 30.0	60.0 137.9 74.8 45.0 104.5 100.5	208.4 206.6 459.7 249.3 150.0 464.5 334.9									22.8 50.7 27.5 16.5 51.2 36.9	208.4 206.6 459.7 249.3 150.0 464.5 334.9	17.1 17.1 38.0 41.2 24.8 76.8 55.4	208.4 206.6 459.7 249.3 150.0 464.5 334.9	28-26 26.0 26.0 26.0 36.0 26.0	183.2 180.0 398.4 216.1 130.0 418.1 290.3	1.4 1.4 3.0 1.6 1.0 3.1 2.2	1.0     1.0     2.3     2.5     1.5     4.6     3.3						
S. Washington RT Primrose LT Wood RT School RT Sunset LT 2nd RT Eldora RT Eldora LT Griffin RT Battery Park RT	770+57.0 775+67.0 777+17.0 785+57.0 790+00.0 790+04.9 792+25.0 794+28.0		50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0																								
HallLTSthRTWattersLTStrayerRTStrayerLTW ShaulisRTRancheroRTRancheroLTNB IA 58 to EB US 26	794+28.0 802+54.0 809+95.9 884+87.0 938+00.0 936+96.0 991+06.4 991+06.8 0 4584+05.0 4586+5		50.0 50.0 50.0 50.0 26.0 26.0	250.0	722.2																						
SB IA 58 to EB US 20 WB US 20 to NB IA 58 SB IA 58 to WB US 20 WB US 20 to IA 58	8 1583+60.0 1584+2 0 3585+20.0 3582+7 2585+64.0 2584+9	6.0 0.0	28.0 62-16 106.74-16 147.74-18	250.0 66.0 250.0 70.7	777.8 286.0 1704.7 651.0									10562.8	114621.2	12304.7	114621.2	656.5	33182.9	633.8	738.3						TOTAL
Battery ParkRTHallLTStrayerRTStrayerLTW ShaulisRTW ShaulisLT	884+87.0 883+97.0 938+00.0																										
NB	1024+78.4 1032+1 1032+19.0 1033+3	9.0	24.0 24-36		1975.1 400.0									217.8 44.1	1975.1 400.0				1975.1 400.0		19.6 4.0						TOTAL
ILE NO.	•		KELLY							1		E	BLACK H					HSX-0				/HSI	P SHEET	NUMBER	C.17		



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										1	00-25
										MO	dified
			include r								
	$\bigcirc$	Refer to	tabulatio	on 11	2-4 f	or q	uanti	ties	•		
			PV-410, F					PV-4	414.		
	3	Quantııy	includes	Pave	ment	Heau	er.				
40.						-		-		-	_
Items	Binder	-	_					-	Ĕ		_
се	liate	halt	Special	Modi	fied	Grai	nular	nent	catio		ks
Surface	Intermediate	Foam Asphalt	Backfill		base		base	Pavement	Scarification		Remarks
TONS 4.0		TONS	TONS	C	Ϋ́		SY		SY		
1.7	20.0										
4.4											
0.7 4.0	1.1										
2.6 8.7	4.0										
4.4										тот	AL
											112-9 ·20-20
_		Granul	ar Shoulde		Earth		ulder ltern		struct	ion	ırks
ate	Subbase				ST/	<b>^</b> 3	HM	A	PC	c	Remarks
N/STA	сү ③	TON	3) TON/ST	TA	316	4	CY	, 6	CY	, 6	
						0.3 2.1					
						4.5					
				_	139	9.6					
					1	5.5					
					21	5.3					

NHSX-058-1(100)--3H-07/HSIP SHEET NUMBER C.18

2	Lane(s)	to	which	the	shoulder	is	adjacent.
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# <sup>2</sup> See Typ. 7156, 7157, or 7158. <sup>3</sup> 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.

Calculations assume a HMA unit weight (lbs/cf) of 145. a Special Backfill unit weight (lbs/cf) of 140. and a Granular Shoulder unit weight (lbs/cf) of 140.

	(1)	Location			$\bigcirc$		$\bigcirc$	$\bigcirc$					1	" Paved		Quant	ties								
Road	raffic	Ctation	to Station	Side	(P)	(P <sub>SG</sub> ) Width	G Width		Class 13 <sup>(4)</sup> Excavation	Hot Mix	Asphalt	Binder	Paved Shoulder	Shoulder '	Reinforced Paved		Special E	ackfill		Subbase	Granular Sh	oulder		ternates	ruction
entificatior		5141101	to Station	Side	Width FT	FT (2)	FT	Length FT	су 3	TON	TON/STA	TONS	SY 3	Guardrail SY 5	Shoulder SY 3	HMA Alter	nate ON/STA	PCC Alt	ernate TON/STA	сү ③	TON 3 T	ON/STA	STA 3	HMA CY 6	PCC CY 6
	Din Of	1008+35.00	1008+95.0	00 RT			4.0	60.0	1.9	3.625		0.218		5	5		011, 5171		1011/ 5111			011, 5	0.6	c	<b>c</b>
		1008+95.00	0 1012+90.0	90 RT			4.0	395.0	0.0														4.0		
		1012+90.00	0 1016+82.7	70 RT			2.0	392.7	0.0														3.9		
		1019+55.20	1025+30.0	90 RT	6.0		4.0	574.8	53.2	104.183	18.125	6.251	383.2										5.7		
		762+35.00			4.0		2.0	4031.0	248.8	487.079		29.225	1791.6										40.3		
		802+66.00	804+79.8	30 LT	2.0		2.0	213.8	6.6	12.917	6.042	0.775	47.5										2.1		
		808+90.80	813+41.3	30 LT	2.0		2.0	450.5	13.9	27.218	6.042	1.633	100.1										4.5		
		817+99.80	957+57.7	70 LT	2.0		2.0	13957.9	430.8	843.290	6.042	50.597	3101.8										139.6		
		2957+50.00	2972+99.2	20 LT	6.0		4.0	1549.2	143.4	280.793	18.125	16.848	1032.8										15.5		
		973+01.70	1008+35.0	10 IT	6.0		4.0	3533.3	327.2	640.411	18.125	38.425	2355.5										35.3		
		1008+35.00	1008+95.0	90 LT	6 to 0		4.0	60.0	2.8	5.438		0.326	20.0										0.6		
		1008+95.00					4.0	395.0 392.7	0.0 0.0														4.0		
					6.0					104.183	10 125	6 251	202.2												
		1019+55.20	0 1025+30.0	00 LI	6.0		4.0	574.8	53.2	104.183	18.125	6.251	383.2										5.7		
	to which the theorem is the second seco	he installati	ion is adjacen	t.		_	[ <b>NG FO</b> Dimensions		RDRAIL : Refer	INSTAL	-	<b>NS</b> Earthwo	ork					107-23 10-18-1							
	ocation		Foreslope at				Dimensions	(Feet)	Refer	to EW-301	Excav	Earthwo	Embankment	_		Remarks									
				<u>t.</u>	(Y1) (5	_	Dimensions		Refer	_	Excav	Earthwo ation s 10		_		Remarks									
	ocation		Foreslope at		(Y1) (5		Dimensions	(Feet)	Refer	to EW-301	Excav Clas	Earthwo ation s 10	Embankment In Place			Remarks									
Direction Direction of Traffic	Station Station	Side	Foreslope at Guardrail	(X1) P			2 X3	(Feet) (Y3) BEAM (	Refer	to EW-301 (4) (Z IL AT	Excav Clas	Earthwo ation s 10 Y ETE BA	Embankment In Place CY ARRIER	-	_	AIL END		10-18-1	1	51-211.					1
Lane(s) to v Not a bid if	Station Station	obstacle is a	Foreslope at Guardrail	X1 P ation.		(2) (Y	2 X3	(Feet) (Y3) BEAM (	X4 (V	to EW-301 (4) (2) IL AT -206, BA-2:	Excav Clas C C C C C C C C C C C C C C C C C C C	Earthwo ation s 10 Y ETE B/ BA-221, B	Embankment In Place CY ARRIER BA-225, BA-2	-	_	AIL END		10-18-1	1 - I-173 and 1	51-211.					1
Lane(s) to v Not a bid in 1 Sid	Station Station which the tem. Incid Location	obstacle is a	Foreslope at Guardrail	(X1) P ation.	ossible Sta	(2) (Y	2 X3	(Feet)	Refer           (x4)         (y           GUARDRA         (y)           5, BA-205, BA-         (y)	to EW-301 (4) (Z IL AT -206, BA-2: Delinea	Excav Clas C C C C C C C C C C C C C C C C C C C	Earthwo ation s 10 y ETE BA BA-221, B	Embankment In Place <u>CY</u> ARRIER BA-225, BA-2 ers (2)	-	_	AIL END		10-18-1	1			E	BA-260 or LS	5-635	1
Lane(s) to v Not a bid in 1 Sid	Station Station which the tem. Incid Location	obstacle is a	Foreslope at Guardrail adjacent. rdrail install	(X1) P ation.	ossible Sta	(2) (Y ndards: B	Dimensions 2 (X3) Compared to the second sec	(Feet) (Y3) BEAM (	Refer           (x4)         (y           GUARDRA         (y)           5, BA-205, BA-         (y)	to EW-301 (4) (Z IL AT -206, BA-2: Delinea	Excav Clas C C C C C C C C C C C C C C C C C C C	Earthwo ation s 10 Y ETE BA BA-221, B Dject Mark Object Ma	Embankment In Place CY ARRIER BA-225, BA-2 ers 2 arker	-	_	AIL END -626, LS-630, Steel Beam	LS-635, Barrie	10-18-1	I - 173 and 5 id Items BA-250 on E	r LS-630 nd Termina		Ba Tra	arrier Insition Te	5-635 End Irminal	1 Reman
Lane(s) to v of Traffic of Traffic Stid	which the tem. Incid Location	obstacle is a	Foreslope at Guardrail adjacent. rdrail install BA-2 set	P ation. Layu	ossible Sta out Lengths 0, LS-630,	(2) (Y	Dimensions	(Feet) Y3 BEAM ( 001, BA-202 ong-Span Sy BA-211	Refer       X4     Y       SUARDRA       GUARDRA       BA-205, BA-       ystem       SI-	to EW-301           (4)         Z           (4)         Z           IL AT         -206, BA-22           Delinea	Excav Clas C C C C C C C C C C C C C C C C C C C	Earthwo ation s 10 Y ETE BA BA-221, B Dject Mark Object Ma SI-17 2 T 2 OM3-L	Embankment In Place CY ARRIER BA-225, BA-2 ers (2) arker 3 ype 3 - 0M3-R	Bolted End	LS-625, LS- Post Adapter BA-210	AIL END -626, LS-630, Steel Beam	LS-635, Barrie Transiti	10-18-1	I - 173 and 2 id Items BA-250 or E nt Flar 05 BA-2	r LS-630 nd Termina red Tan 206 LS-		ed Se 26 B	arrier Insition Te ection Ta A-221 B	End rminal	

SHOULDERS

FILE NO.	ENGLISH	DESIGN TEAM KELLY\MEISE\NIE	BLACK HAWK COUNTY	PROJECT NUMBER NHSX-058-1	(100)

# 112-9 10-20-20

### 0)--3H-07/HSIP SHEET NUMBER C.19

1	ane(s)	to which	the obstacle	s adiac	ent.			I										<b>O-WAY  </b> LS-631, SI-				
		Location Side						_		Lengths r LS-631								Delineators	and Obje	ct Mark	ers	
					$(D_0)$		Approa	ch Side 🖲			Tra	iling Side	T	Lo	ong-Spai	n System		Delineator	Ob	ject Ma	arker	Steel Bea
No.	Direction of Traffic	Outside Median	Station			ET		(VF <sub>A</sub> )	(VT1 <sub>A</sub> )		VF <sub>T</sub>	) (VT2	T) ET				SI-211	SI-172 Type 1	Type 2	SI-17	3 Гуре 3	Guardrai
	Dired of Tr	0= 01 M= M6				<u> </u>									BA-2			White	OM2-2	OM3-	L OM3-R	
				FT	FT	LF	LF	LF	LF	LF	LF	LF	LF		TATION	TYP	TYPE	EACH	EACH	EACH	EACH	LF
1 Re <sup>+</sup>	fer to	Standard	Road Plan Sk	- -539		BRID		D DRA]	·	ITH L	ETDO	WN)				1		4-8B 9-22	1			
	idge ation	Bridge Corner	DI-LOP	Form Grade	A	Elevat	ion C (	D (E		Le L2	L3	L4			Remar	ks						100 20
* Bid 1 Lane 2 Comp	Item e(s) t plete	o which t this sect	he installati ion when usir	ion is adj	acent. porary (	rash Cushi	on bid ite	m and Eartl		CRASH			ent. Refer	to BA-500	9							108-30 04-16-13
1	1					rash Cushi						Details (2		Earthwor		Spare Par (Select						
	Direction of Traffic	Locat:	on	Obstacle Width	ry	ry ive	ry Jse	t t		(W)	$\mathbf{x}$	Y	z	10 10	ace	-	-					
No.	Direc f Tra	Stati	1 5100	Obs† Wi	Temporary	Temporary Redirective	Temporary Severe Use	Permanent Permanent						Excavation Class 10	in Place	Permanent	Permanent Severe Use	Obstac1	le Descrip	otion	Re	emarks
	0				Tem	Tem Redi	Sev	Per Per		_	Length	_										
				FT					FT	FT	FT	FT	FT	СҮ	CY	EACH	EACH					
			horage requir dditional TBF		Possibl e based		: BA-401 ations sho	Possible I	Detail: 560		s that v	ary from w	what is sho	<b>108-33</b> <b>10-15-19</b> wn in the		) Lane(s)	to which	<b>F STEE</b> the installa f End Termin	ation is a	adiacen	t.	110-7A 04-17-12 AIL
	-			Length	,	(Select On	e) ,	nchored*	Modular Gl						_	(1)	Loca	tion			1	
No.	S	tation to	STATION	LF	COIL		teel / 60-7	(Y/N)	Screen Sys (Y/N)	tem		Remar	KS		N	o Direction () of Traffic	Sta	tion to Stat	tion	Side	Guard	val of drail
																irect f Tra						2)
																						<u>.F</u>
* Not a	a bid				-								BRIDO	<b>GE APP</b> Refer to		CH SE Series.				1	1	
		Loc	ation				Approach Non-Rei	Singl	e- Doub	le-		ard Road P 3R Series	lans		*		Subdrain *	*		*	*	*
Bridge	Stati	on End	Skew A	Ahead	(T Thickr		Paveme	nt Reinf Paveme	nt Paver	ent		Fixed or Movable	Abutting	Perforat Subdrain		Subdrair	Outlet	Porous Backfill	Class Crushed S	Stone	Modified Subbase	Polymer Grid
			Degr LEFT	ees RIGHT	Inch	es FT	SY	Area SY	Are SY	u		Abutment	Pavement	LF		STA	Side	CY	Backfi CY	.11	TON	SY
FILE N			ENGLISH			LLY\ME					1				DI			INTY PROJEC				58-1(10

								10 04-:	8-8B 19-16	
			T+			1				
			Items erminal			-				
m L		ndard	Count	Pos Adap			Rem	arks		
			EACH	BA-2 EAC						
								108-	201	
		т	ЕМРО	RARY	TRA	١F	FIC SIGN	08-01	-08	
	N		ation		1	Гуре				
	No.	Sta	ation	One Lane Traffic	Hau Roa		Intersection	Remarks		
									112 04-18-	2-6 -17
Т										_
•		*								
	Spec Back						Remarks			
+	TC	ON								
+										
)(	9)-	- 3H-	07/HS	SIP SHEE	T NU	MBE	ER <b>C.20</b>			

4: Edge Lin	e Left (Yellow)	ow) @ 0.25 @ 1.00	DCY4:	: Double Centerline (Yellow) @ 2.00				NPY4: No F	Passing Z	one Line (	(Yellow) @	1.25	BI	LW4: Brok	ken Lane	Line (Whi <sup>.</sup>	te) @ 0.25			ELW4: Edg	ge Line Right	: (White) @ 1.00
	(,	6	Locat	ion								Leng	th by Lin	ne Type (l	Unfactore	ed)						
	<u>.</u>	<u></u>	Dir. of			Side	BCY4*	DCY4	NPY4**	BLW4	ELW4	ELY4										Remarks
Road ID	Station to	Station	Travel	Marking Type		C R	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	STA	
					E			516	JIA		514	514		314	JIA	518	518		516		518	
58	762+35.00	770+57.00	BOTH	Waterborne/Solvent Paint	x	x x		1			16.44										1	
	770+57.00	780+52.40	BOTH	Waterborne/Solvent Paint	x	x x					19.91											
	780+52.40	787+50.00	BOTH	Waterborne/Solvent Paint		x x					13.95											
	787+50.00	800+24.00	BOTH	Waterborne/Solvent Paint		x x					25.48											
	800+24.00	811+75.00	BOTH	Waterborne/Solvent Paint		x x					23.02											
	811+75.00	817+25.00	BOTH	Waterborne/Solvent Paint		x x					11.00											
	817+25.00	826+15.00	BOTH	Waterborne/Solvent Paint		x x					17.80											
	826+15.00 847+30.00	847+30.00 588+10.00	BOTH BOTH	Waterborne/Solvent Paint Waterborne/Solvent Paint		x x x x					42.30 518.40											
	588+10.00	586+10.00	BOTH	Waterborne/Solvent Paint		x x					4.00											
	586+10.00	864+35.00	BOTH	Waterborne/Solvent Paint		x x					556.50											
	864+35.00	877+40.00	BOTH	Waterborne/Solvent Paint		x x					26.10											
	877+40.00	887+30.00	BOTH	Waterborne/Solvent Paint		x x					19.80											
	887+30.00	910+40.00	BOTH	Waterborne/Solvent Paint		x x					46.20											
	910+40.00	919+30.00	BOTH	Waterborne/Solvent Paint	X	x x					17.80											
	919+30.00	919+95.00	BOTH	Waterborne/Solvent Paint	X	x x					1.30											
	919+95.00	927+85.00	BOTH	Waterborne/Solvent Paint		x x					15.80											
	927+85.00	943+45.00	BOTH	Waterborne/Solvent Paint		x x					31.20											
	943+45.00	951+25.00	BOTH	Waterborne/Solvent Paint		x x					15.60											
	951+25.00	964+60.00	BOTH	Waterborne/Solvent Paint		x x					26.70											
	964+60.00	966+90.00	BOTH	Waterborne/Solvent Paint		x x					4.60											
	966+90.00	983+75.00	BOTH	Waterborne/Solvent Paint		x x					33.70											
	983+75.00 989+65.00	989+65.00 994+15.00	BOTH BOTH	Waterborne/Solvent Paint Waterborne/Solvent Paint		x x x x					11.80 9.00											
	994+15.00	1008+95.00	BOTH	Waterborne/Solvent Paint		x x x x					29.60											
	1008+95.00	1022+60.00	BOTH	Waterborne/Solvent Paint		x x x x					29.00											
	1022+60.00	1025+30.00	BOTH	Waterborne/Solvent Paint		x x					5.40											
		1045+56.00	BOTH	Waterborne/Solvent Paint		x x					2091.12											
			-				-			-							-	1	1	-		

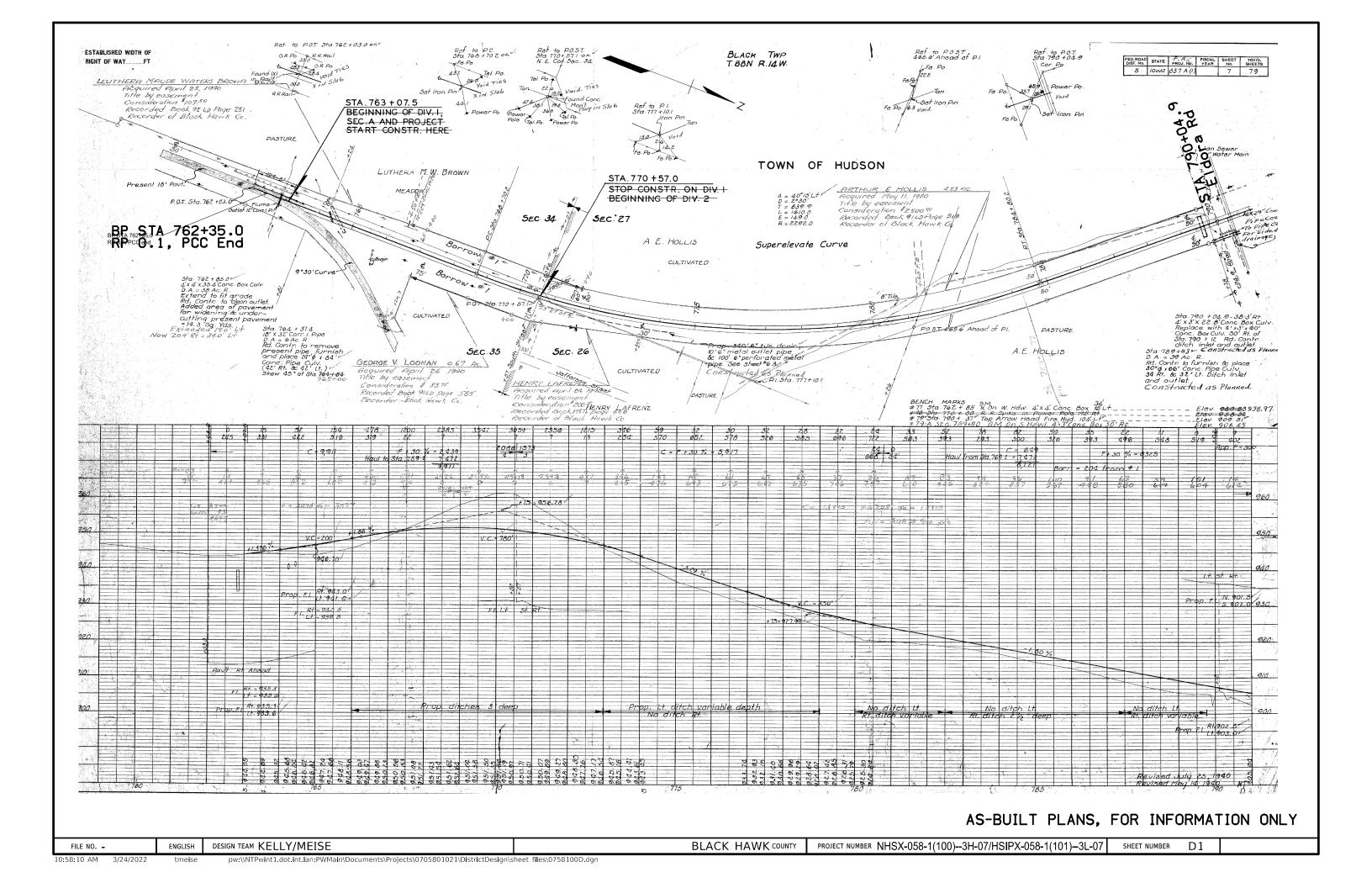
																										108-29 04-21-15
										PAV	EMENT	MARK	(ING S	• PM-111	S AND	LEGE	INDS									
Road Identification	Location Station	n Side	↑	1	5	4	4	\$		Ŷ	1	K	X	070	F	Ŀ.	SCHOOL	XING	STOP	AHEAD	ONLY	BIKE	LANE	EXIT	Groove Cuts	Remarks
			STAW	RTAW	LTAW	CSRW	CSLW	CSTW	CRLW	FERW	LLRW	RLRW	RRCW	BLSW	WCSW	WPSB	SCLW	XNGW	STPW	AHDW	ONLW	BIKW	LANW	XITW	EACH	
																				112-16	0					

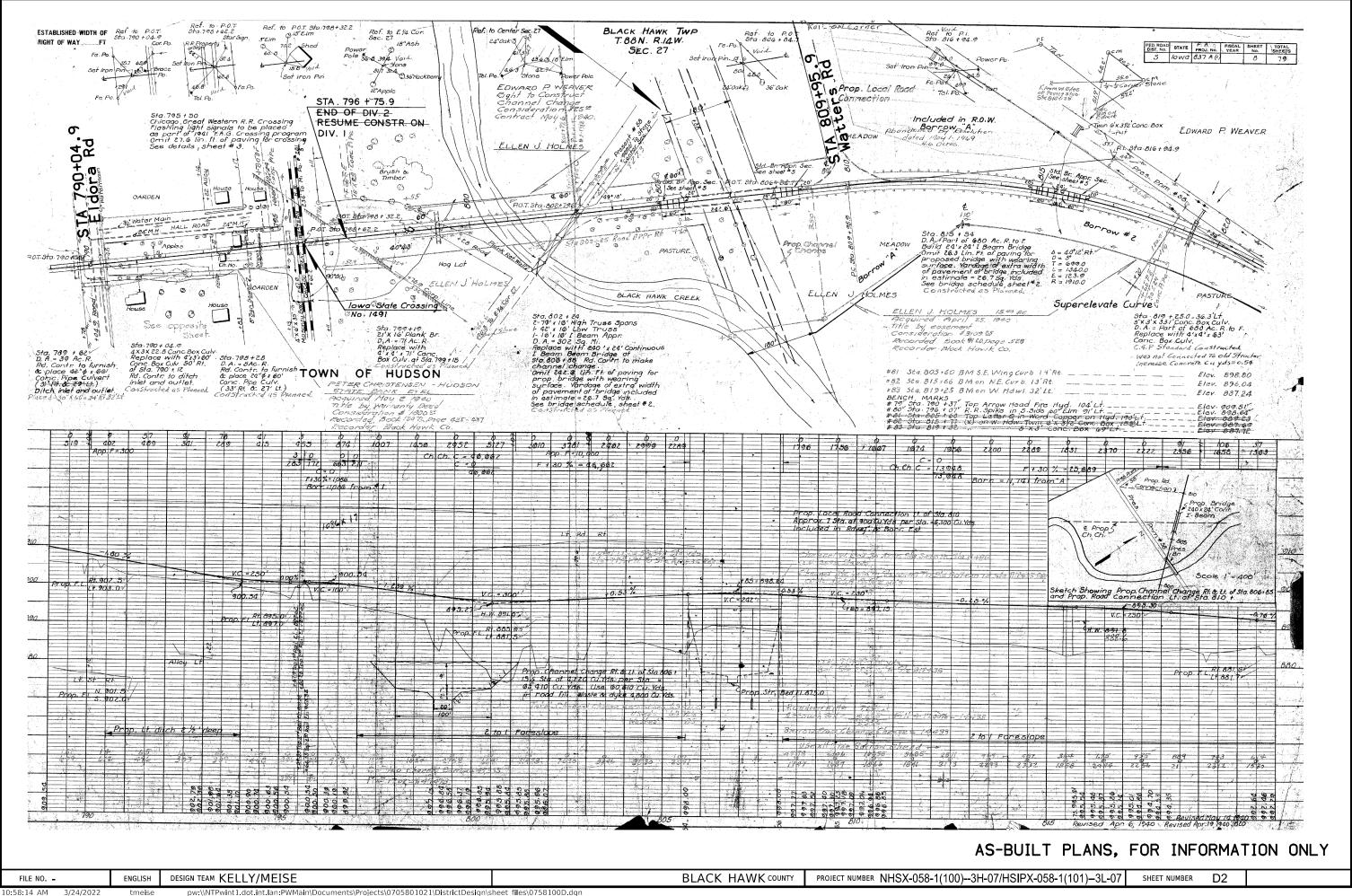
lculated at 18" width fo	Shourder:	l	ocation					Fog Seal*	Effect	ive Shoulder	r Width	
Road Identification	Station to	Station	Shoulder Pavement	Rumble Strip Type (Centerline,	L	PCC	ion Length HMA	(Milled Rumble Strip) Shoulder		HMA Paved	Granular∖ Earth	Remarks
			Туре	Rt or Lt Shoulder)	IN	STA	STA	GAL	FT	FT	FT	
IA 58	762+35.00	957+57.68	HMA	Centerline			195.23	0.0				
	2957+50.00	2972+99.20	HMA	Centerline			15.49	0.0				
	975+01.69	1025+30.00	HMA	Centerline			50.28	0.0				
	762+35.00	957+57.68	HMA	Left Shoulder			195.23	211.5				
	2957+50.00	2972+99.20	HMA	Left Shoulder			15.49	16.8				
	975+01.69	1025+30.00	HMA	Left Shoulder			50.28	54.5				
	762+35.00	957+57.68	HMA	Right Shoulder			195.23	211.5				
	2957+50.00	2972+99.20	HMA	Right Shoulder			15.49	16.8				
	975+01.69	1025+30.00	HMA	Right Shoulder			50.28	54.5				

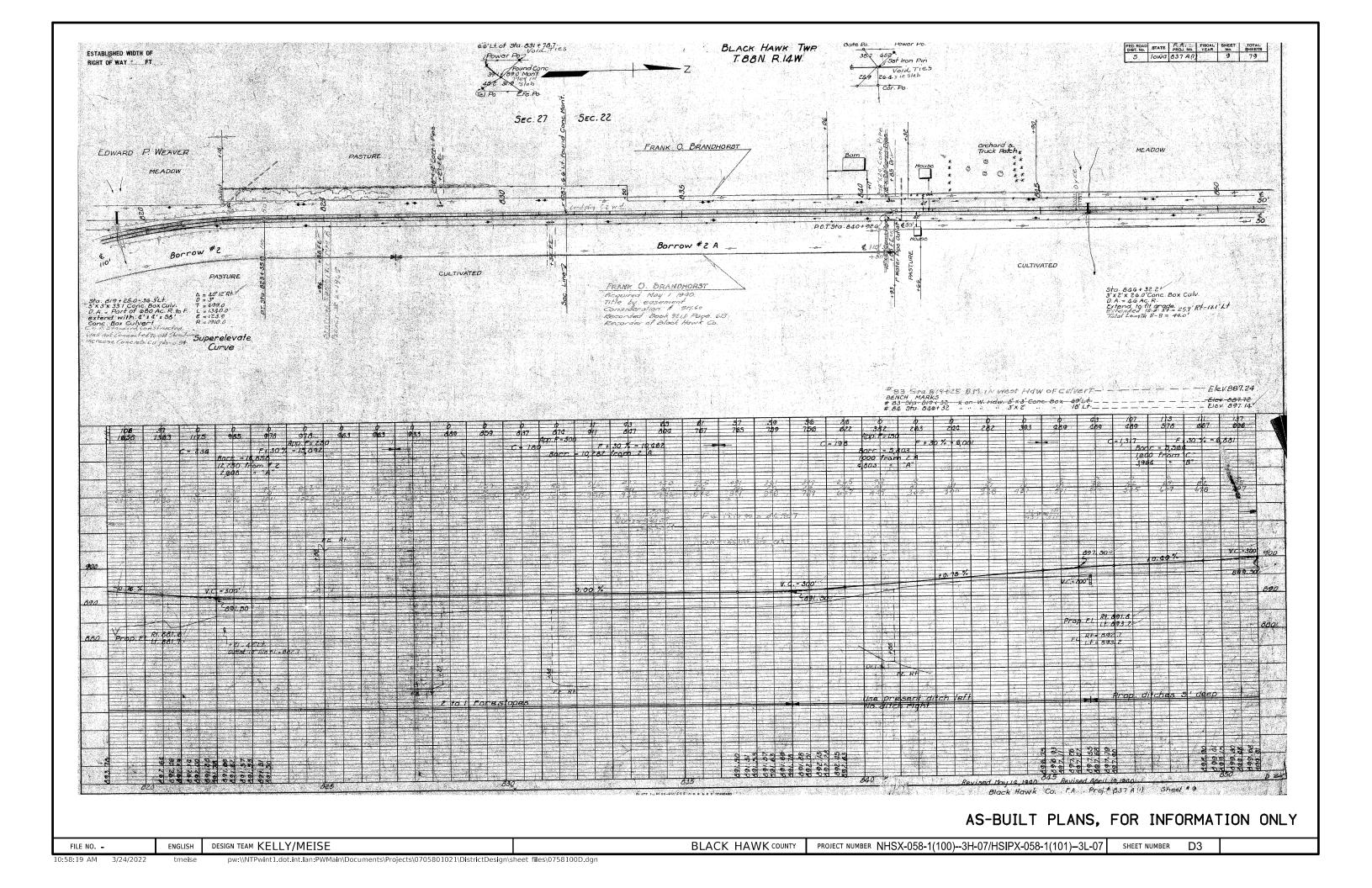
0)3H-07/HSIP SHEET NUMBER	C.21	

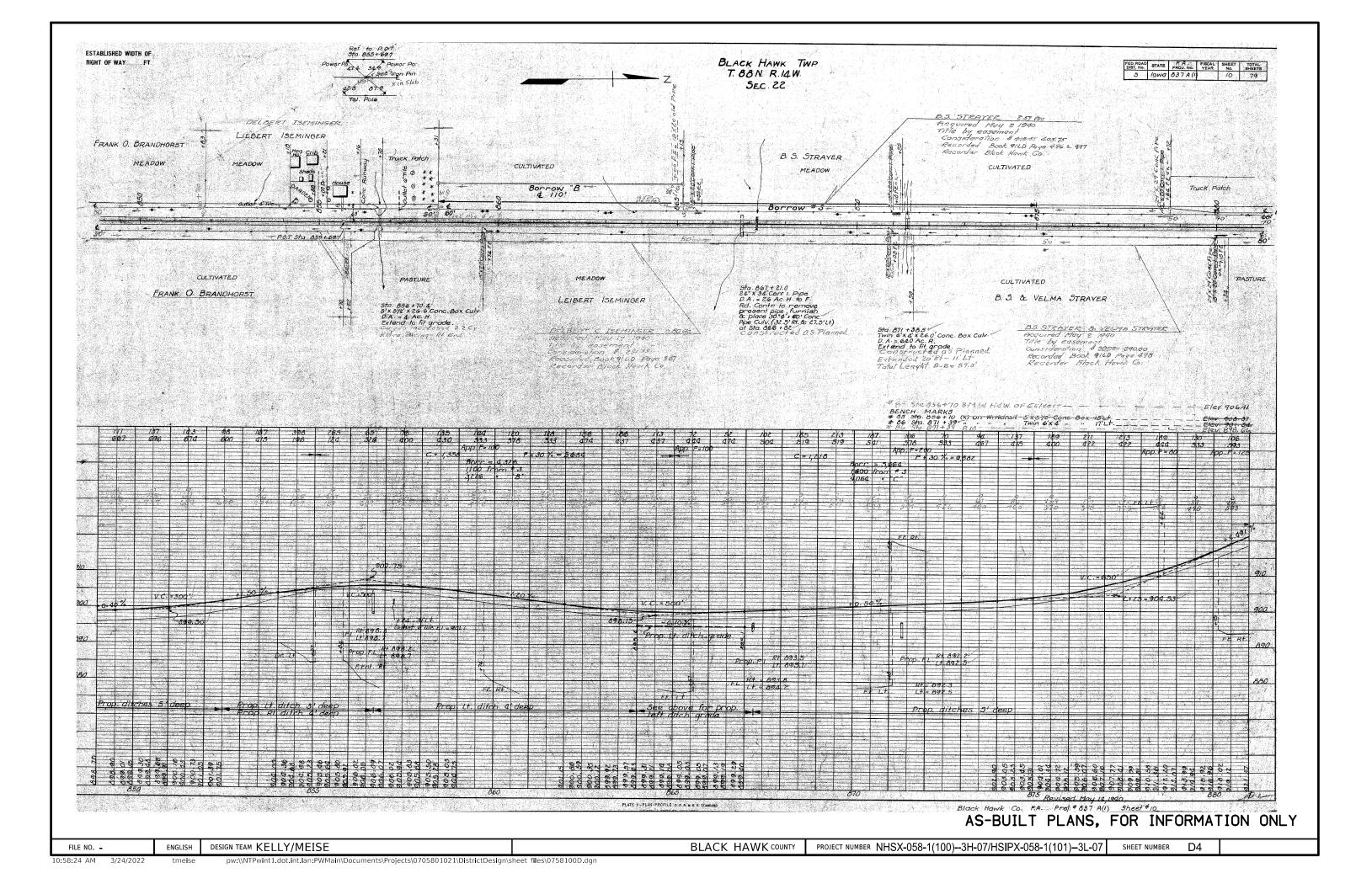
				CT.											113- 04-16-:			CTDE			290-0: 04-15-1
					DEWALK												dths:			ONSTRAIN	
			Back of C	Curb Face o	of Sidewalk B →	k	Ţ									2. Crc	construct Construct spaces at exceeding into exist existing p	: all sid a targe 2.0% wi ting pav pavement	ewalks, curb t cross slop ll not be al ement. In th cross slope	be of 1.5%. Cro lowed, except nese areas, tra e to a cross s	andings/turning oss slopes for areas tying
Intersection/Road	Quadrant/Side	Length A	B FT	\$ %	4" PCC Sidewalk SY		alk Sid		10" PCC Sidewall SY				Remark	S		3. Lor	ngitudinal a. Sidewal i. Road slop will	Slopes: lk: dway slo pe excee l not be	pe exceeds 5 ding the roa allowed.	5.0%: Sidewalk	longitudinal more than 2.0%
				See MI-	DEWALK	Sheets									113- 04-16-		slop b. Ramps: i. Ramp exce ii. Ramp	be excee os 15.0' eeding 8 os great	ding 5.0% wi in length c .3% will not er than 15.0	<pre>ill not be allo or less: Longi be allowed. i in length: 0</pre>	owed.
			Back o	f Curb F A S	ace of S												nding/Turni	ing Spac	es:	g 2.0% will no	-
Road Identification	Station to Sta	tion Side	A FT	B FT	(5) %	4" PC Sidewa SY	alk Sid		8" PCC Sidewall SY		Detectabl Warnings SF			Remarks		_					
						мате			TVDE	E 'A' SIG	NC										190-51 10-15-13
		WOOD POS	TS							eel Rect. Tube			тур	E A SIGN MC		ACKETS			TNST	ALLATION	
STGN NUMBER	RAVEL STATION		x 6 LEG 2 L	PERFC EG 1 LEG 2 FT FT			UBE ANCHOR SOIL		NO. OF POSTS	POST LENGTH ANCHO		POST ACKET	TWO POST	AUXILIARY	H	F	) (F1	) ·	TYPE DIM		
								190-61													190-6
	EXISTIN	G SIGNS TO	BE REI	NSTALLED				10-15-13					E	KISTIN	G SIG	INS TO	BE RE	MOVE	D		10-15-
	ECTION TRAVEL LOCATION STA	TION NUMBER OF POSTS T		WOOD POSTS X 4" 4" x 6" LF LF		TALLATION		SIGNING NOTES		SIGN NUMBER OR DESCRIPTION	LOCA <sup>-</sup> STAT		DIRECTION OF TRAVEL	TYPE 'A' T SIGN ASSEMBLY A RA EACH	SIGN SSEMBLY RB	EXEMOVE & REE EXISTING S TYPE 'A' TY RR EACH	SIGNS FO	ONCRETE UNDATION RF EACH		APPLICABLE SIGNING NOTES	REMARKS
		190-66																			
SUMMARY OF		10-21-14 GNS otal Sign Area																			
EACH	IN	SF																			
FILE NO. ENGLISH	DESIGN TEAM <b>KEL</b>		E						BLA	CK HAWK co	DUNTY PR	ROJECT	NUMBER	NHSX-0	958-1(	100)	·3H-07,	/HSIF	SHEET NUM	BER <b>C.22</b>	

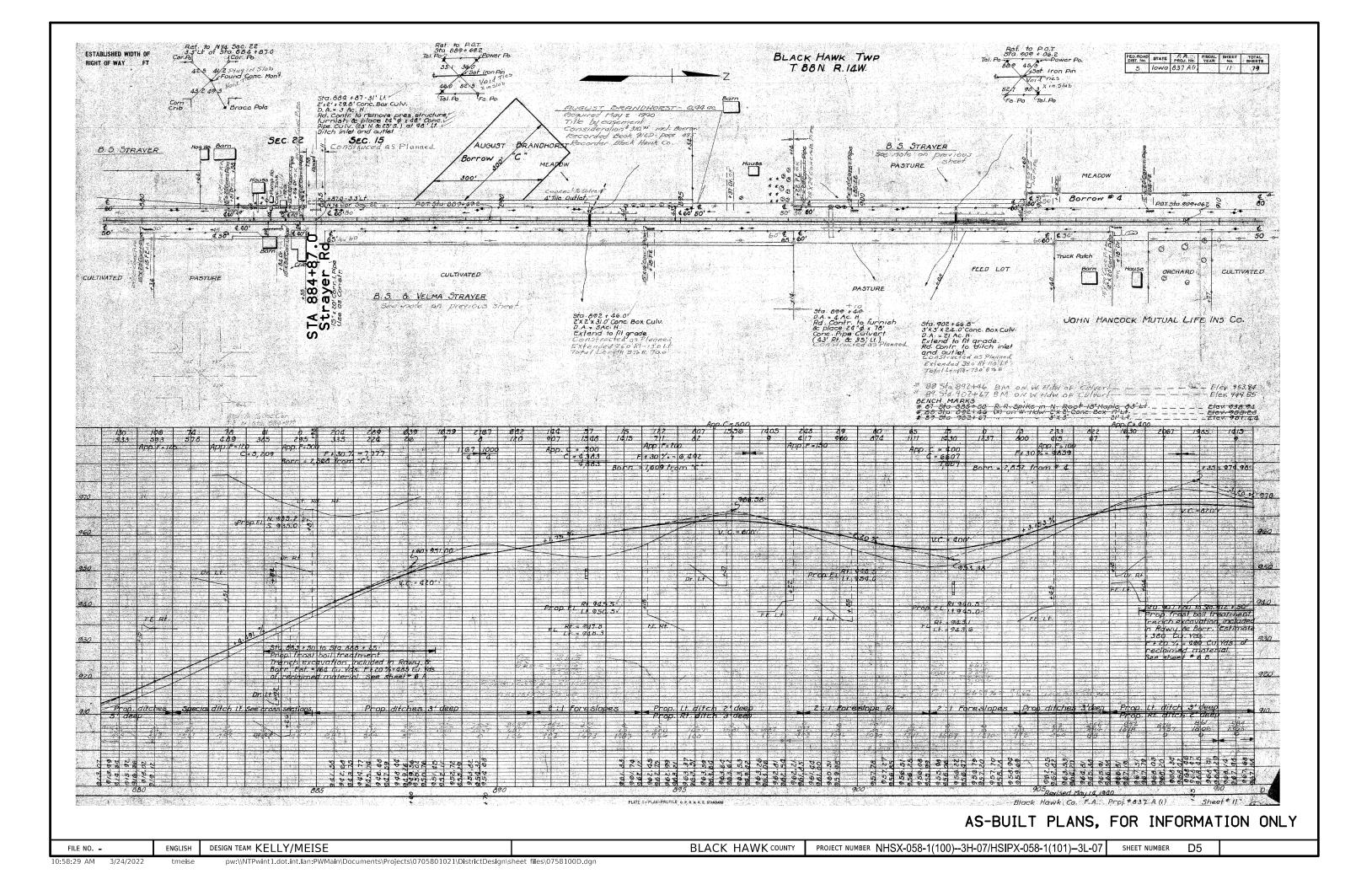
	REINSTALL G SIGNS	CONCRETE FOUNDATION	SUPPORT STRUCTURE &	APPLICABLE SIGNING	REMARKS
'A'	TYPE 'B'		FOUNDATION		REPARKS
2	RR	RF	RS	NOTES	
СН	EACH	EACH	EACH		

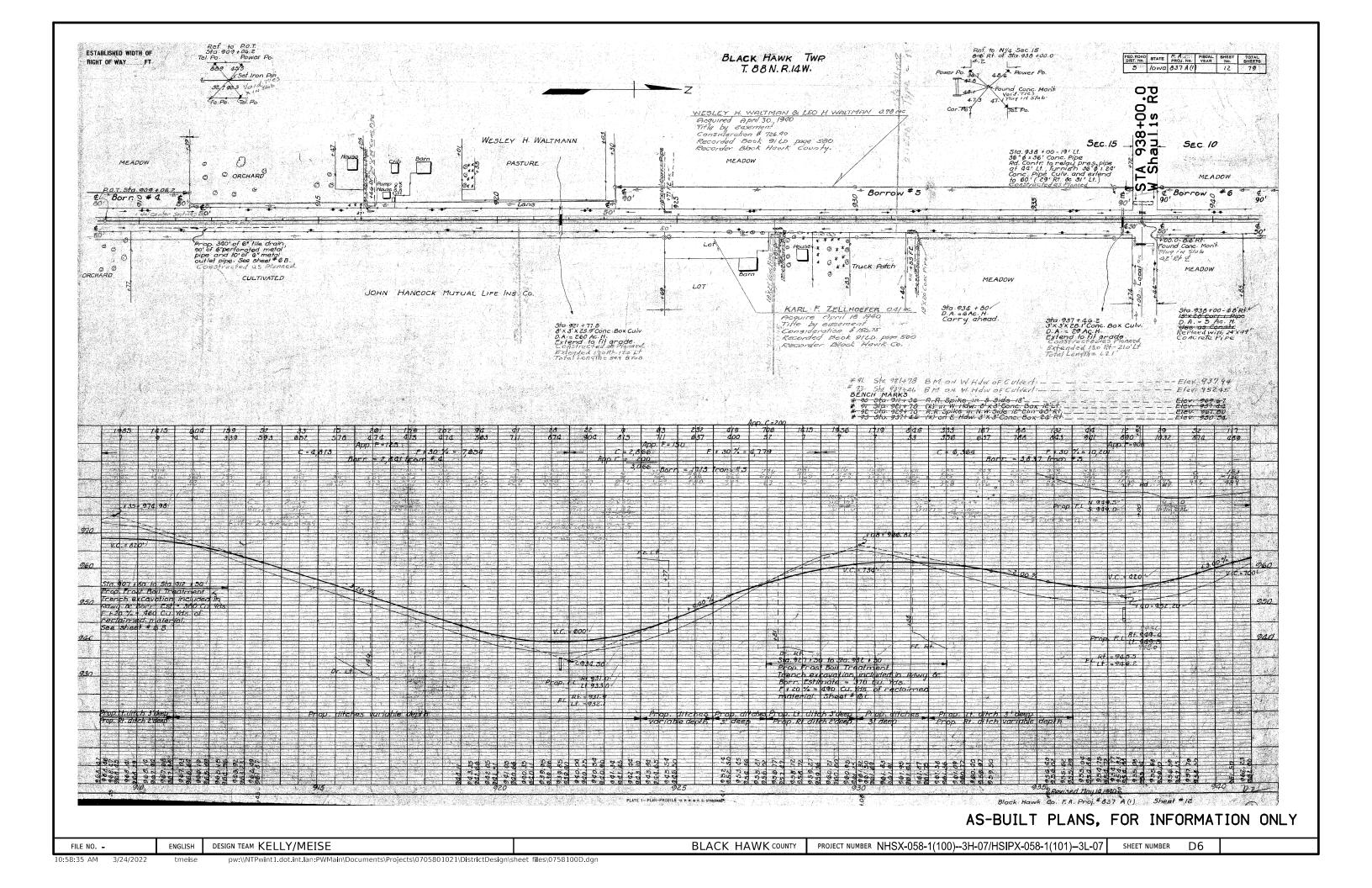


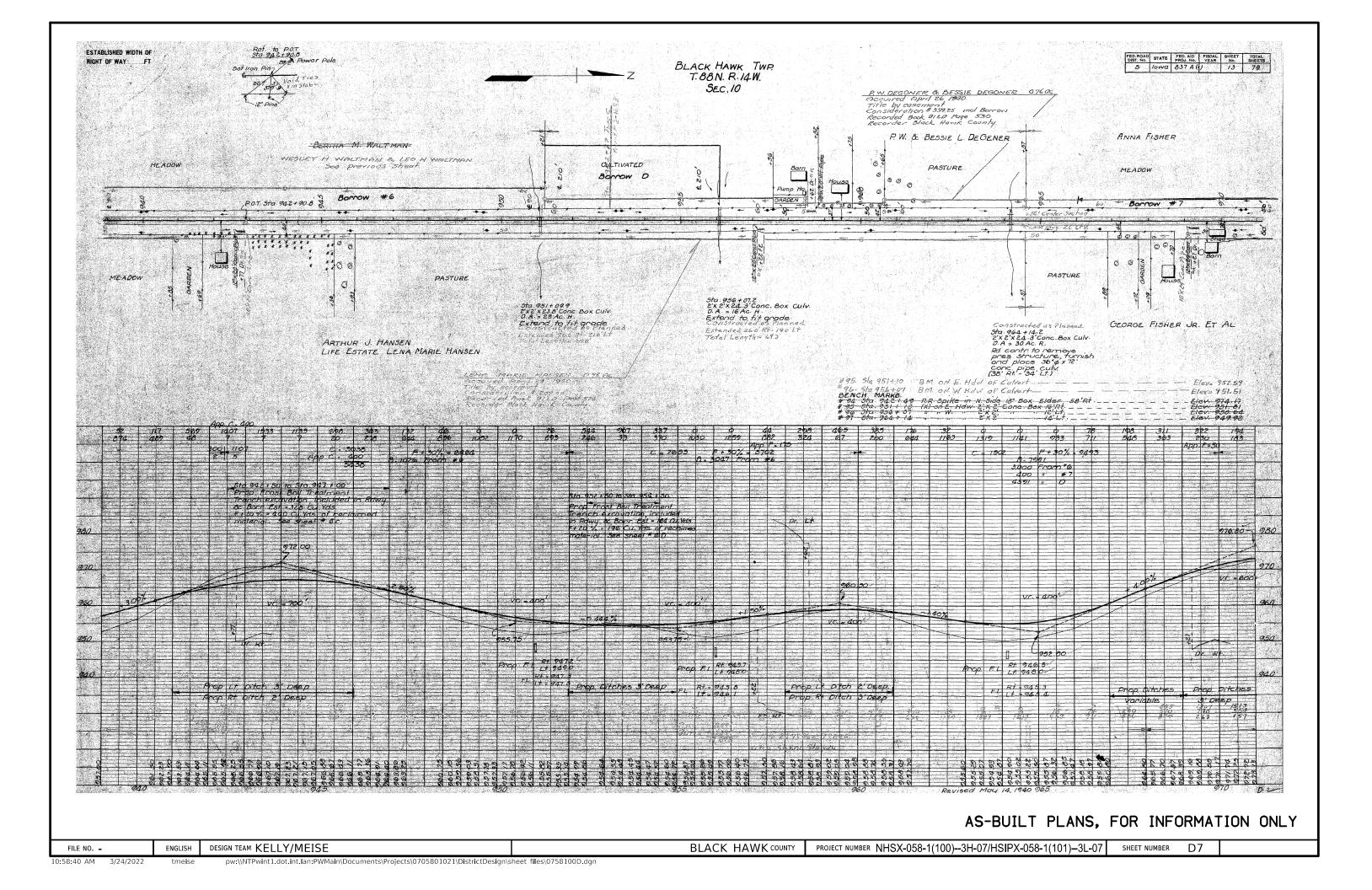


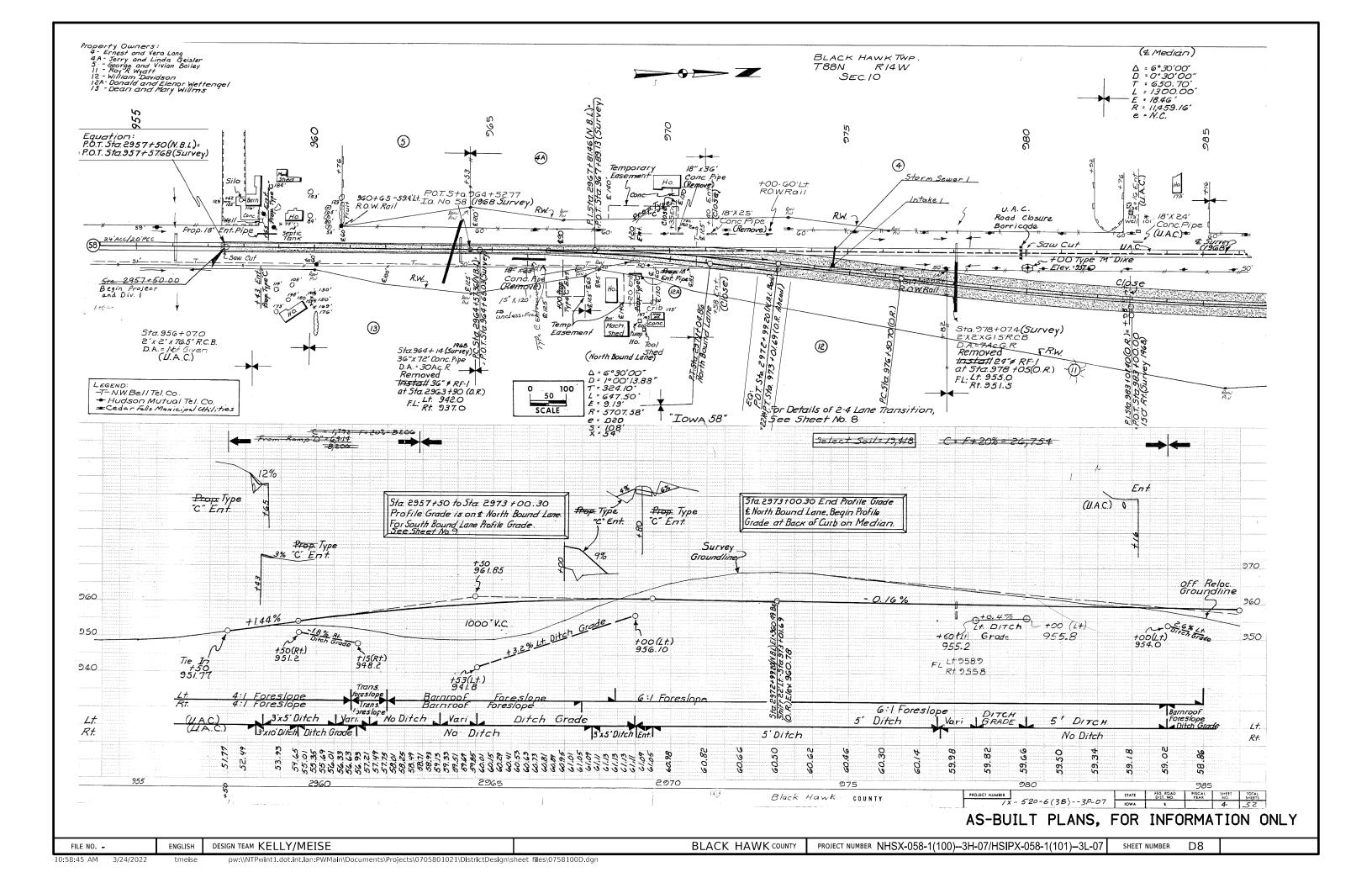


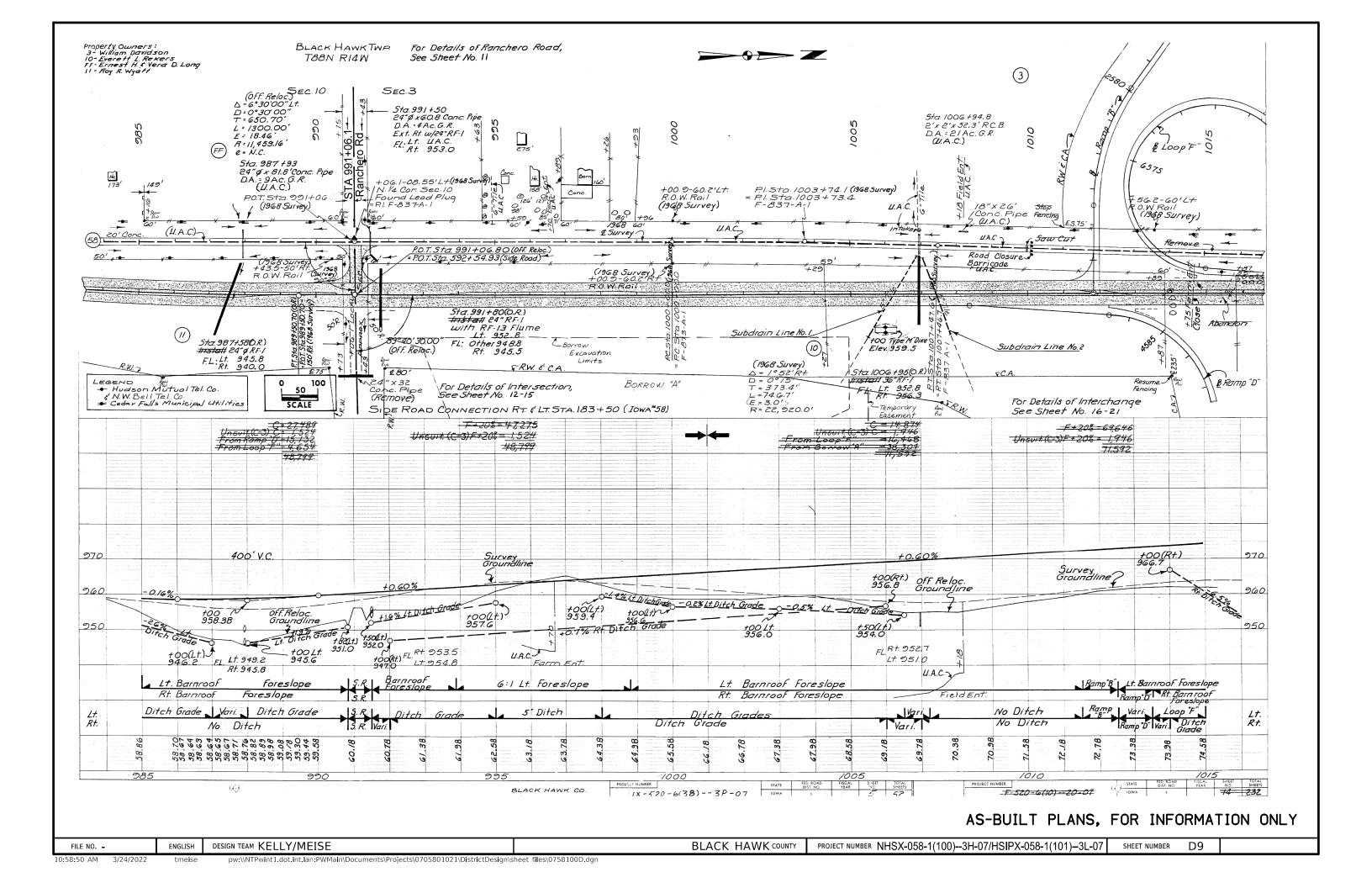


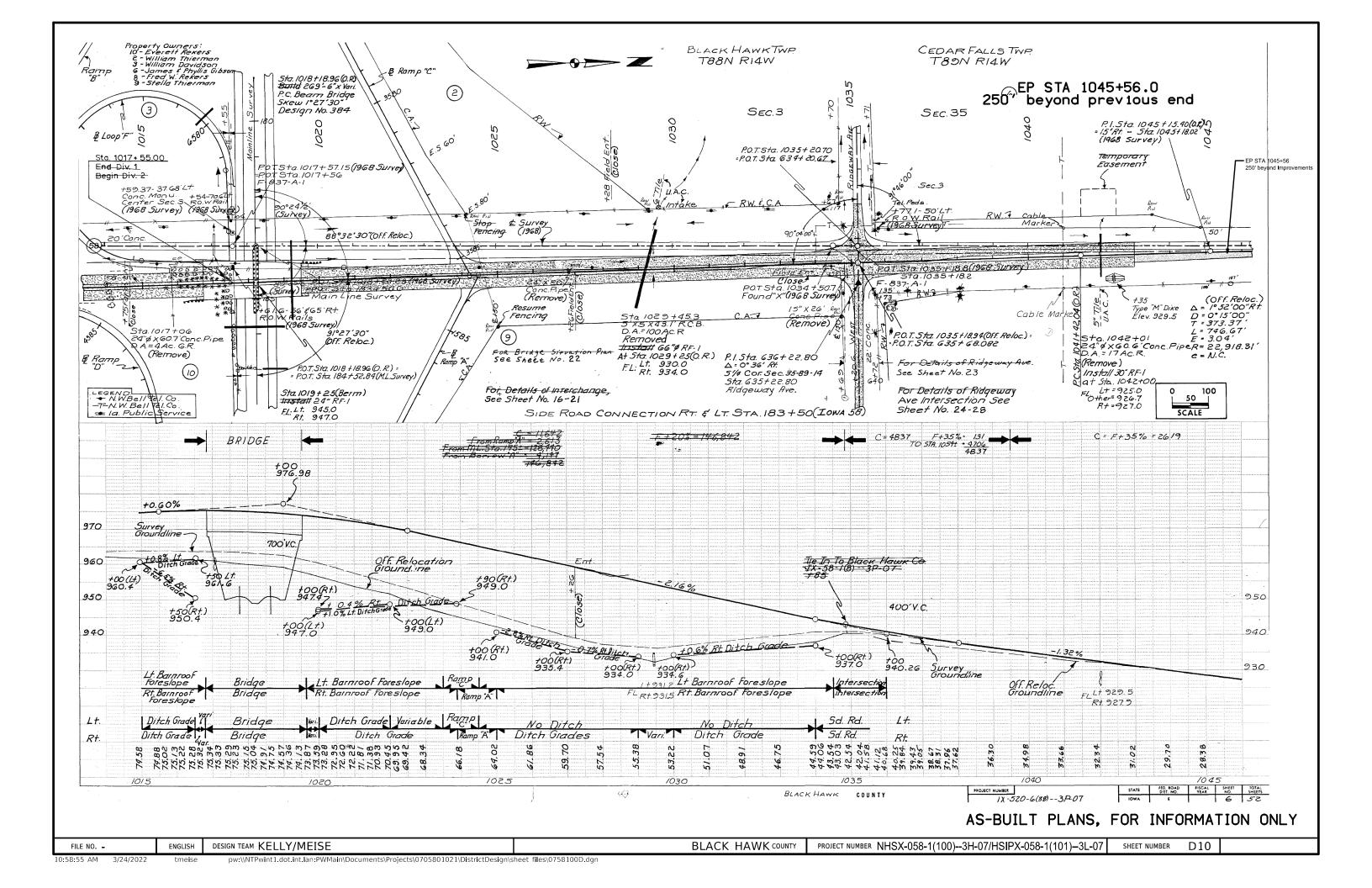


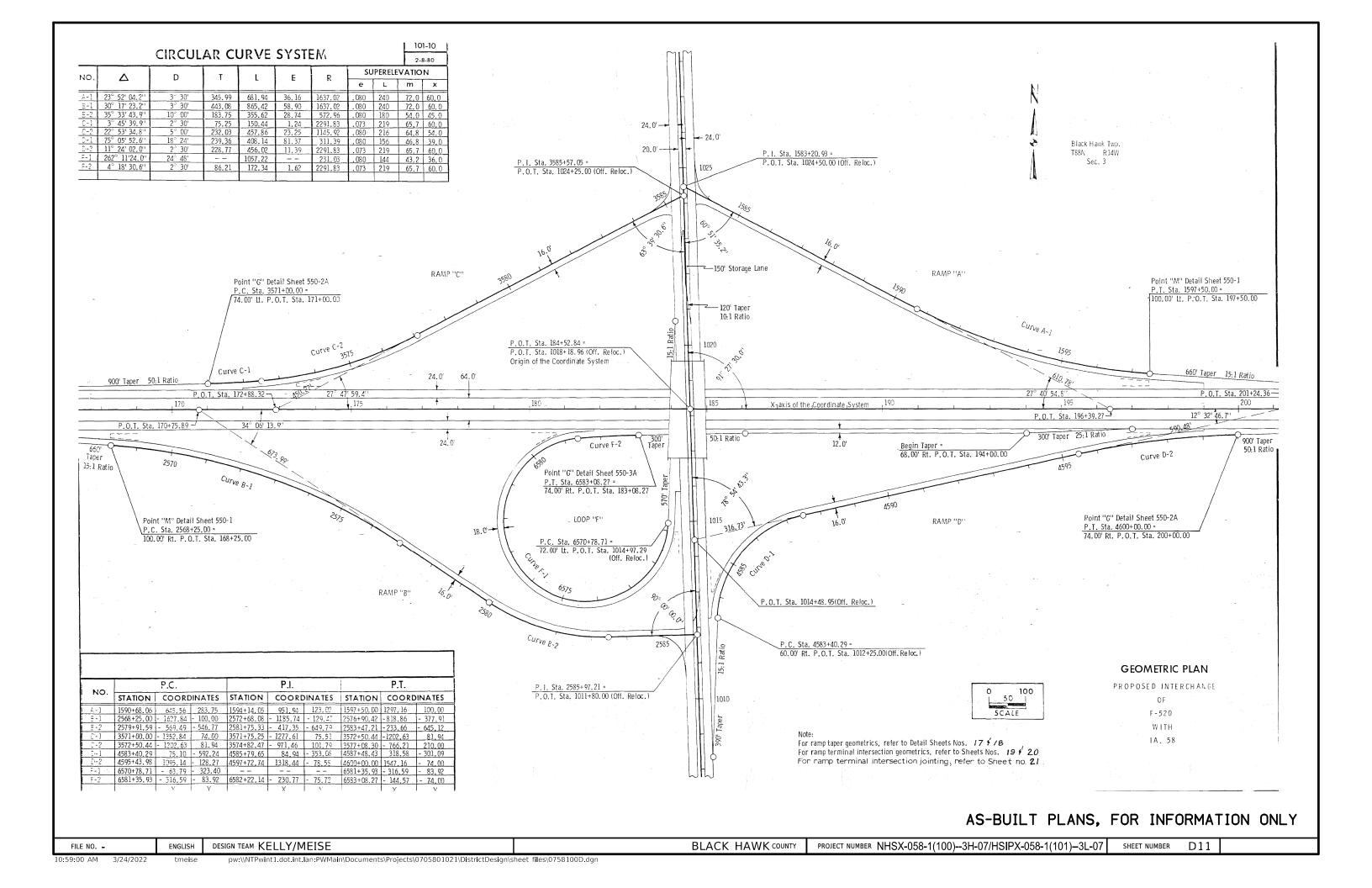


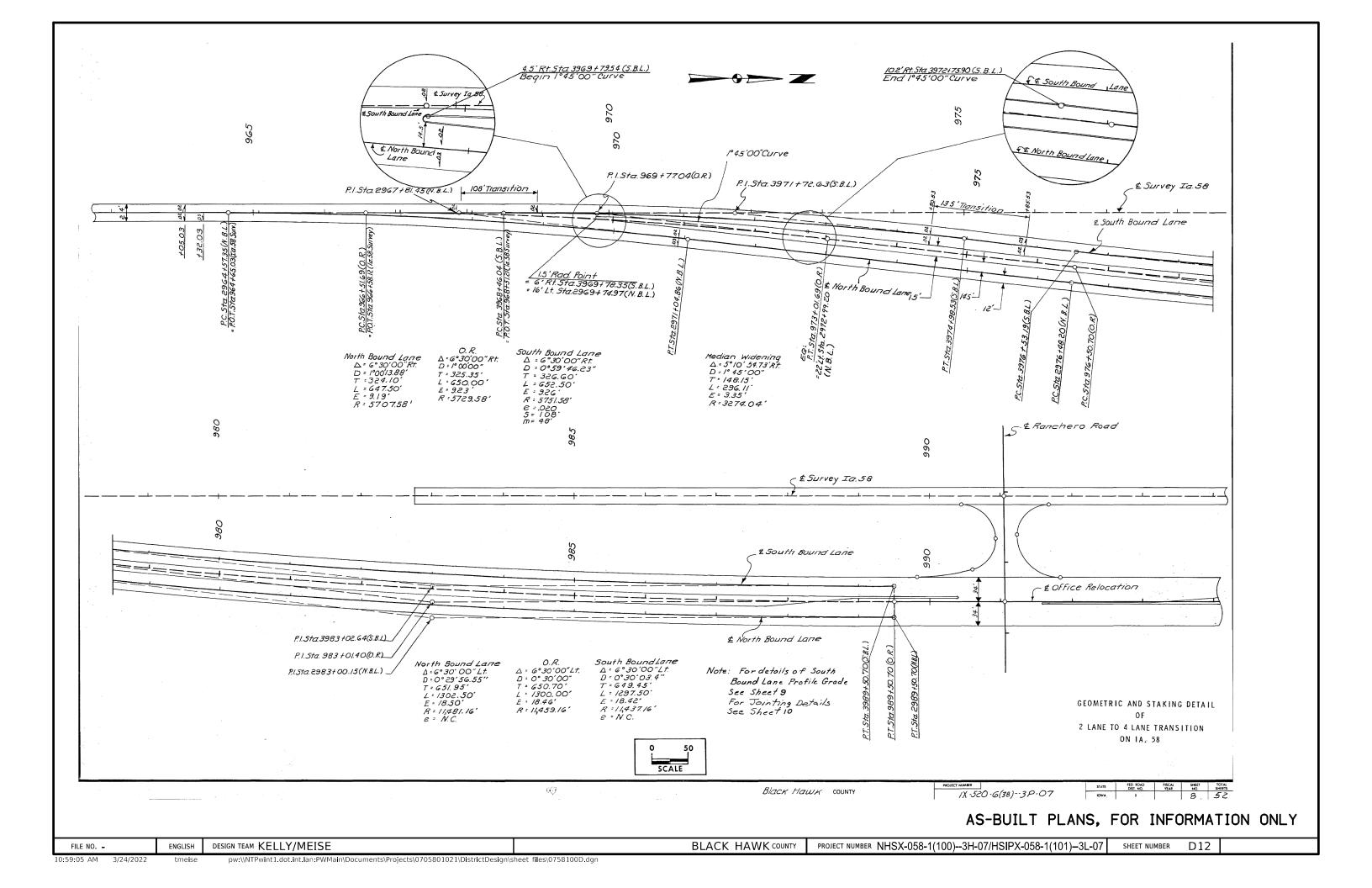


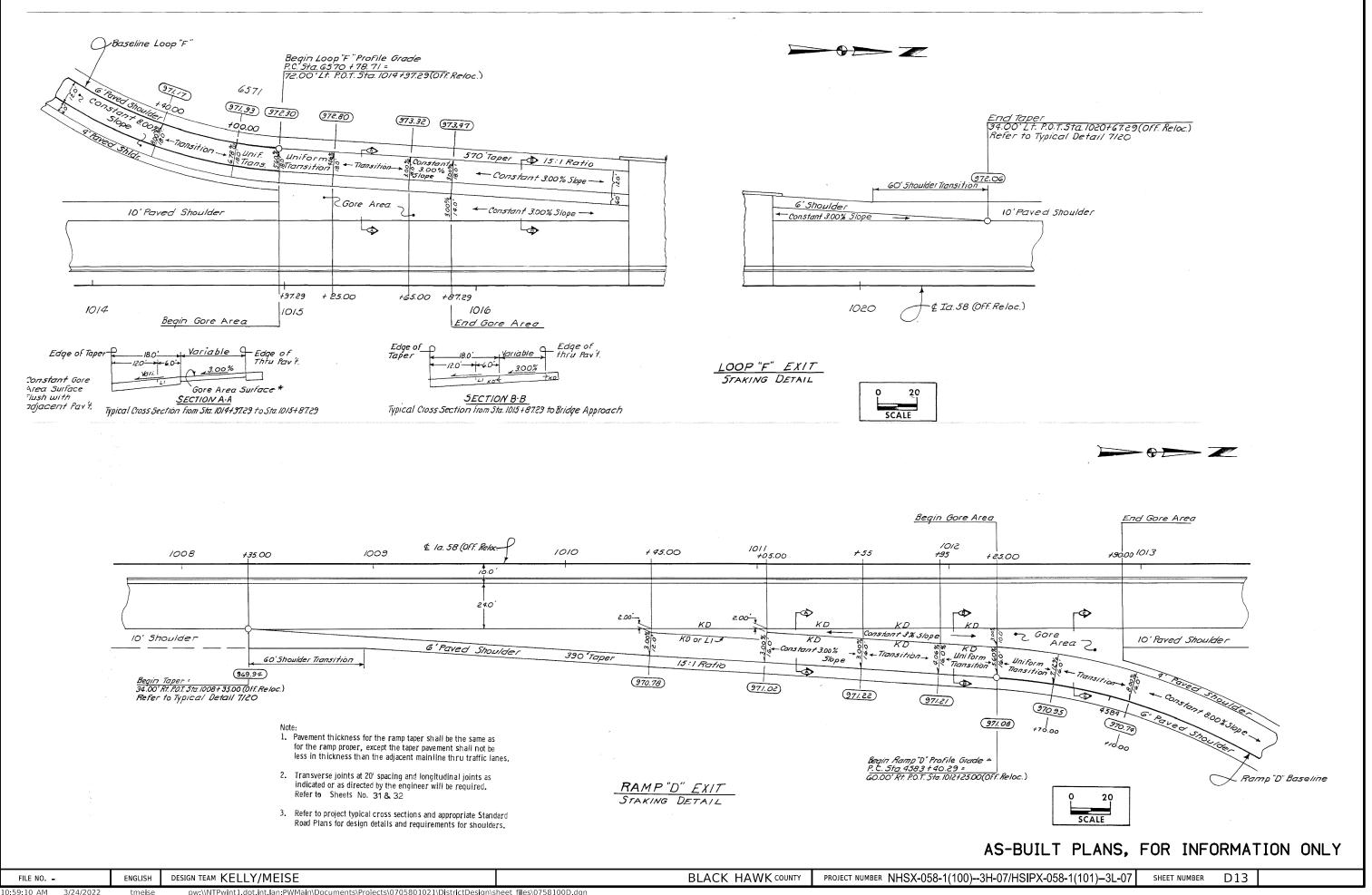




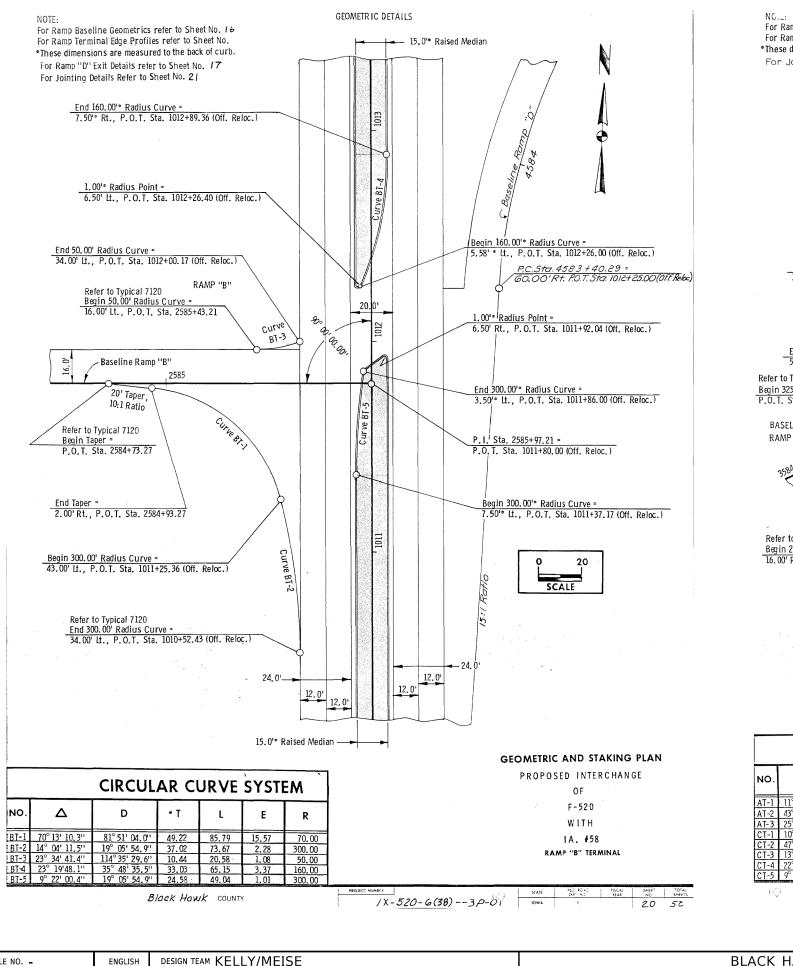


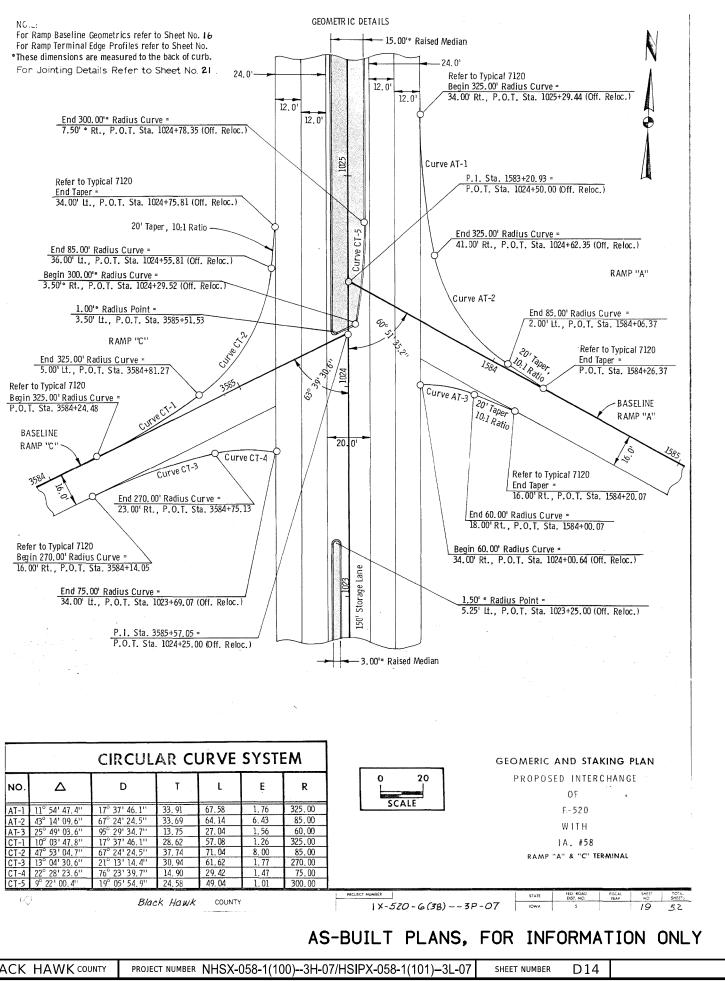






<sup>10:59:10</sup> AM 3/24/2022





		CIRCUL	AR C	URVE	SYST	EM
NO.	Δ	D	T .	L	Ę	R
AT-1	11° 54' 47, 4''	17° 37' 46.1''	33, 91	67.58	1.76	325.00
AT-2	43° 14' 09.6''	67° 24' 24.5"	33.69	64.14	6.43	85.00
AT-3	25° 49' 03.6''	95° 29' 34.7''	13,75	27.04	1.56	60.00
CT-1	10° 03' 47.8''	17° 37' 46.1"	28.62	57.08	1.26	325.00
CT-2	47° 53' 04.7''	67° 24' 24.5''	37.74	71.04	8.00	85.00
CT-3	13° 04' 30.6''	21° 13' 14. 4''	30, 94	61.62	1,77	270.00
CT-4	22° 28' 23.6''	76° 23' 39.7"	14,90	29.42	1.47	75.00
CT-5	9° 22' 00.4''	19° 05' 54.9''	24, 58	49.04	1.01	300.00
_<	)	Blac	:k Hawk	COUNTY		

FILE NO	ENGLISH	DESIGN TEAM KELLY/MEISE	BLACK HAWK COUNTY	PROJECT NUMBER NHSX-058-1(100)3H-07/HSIP		
10:59:16 AM 3/24/2022	tmeise	pw:\\NTPwint1.dot.int.lan:PWMain\Documents\Projects\0705801021\DistrictDesign\s	heet files\0758100D.dgn			

						DECTO	TTONS		
Route	Direction	County		Location Description	511 TRAVEL		Object Type	Maint. Bridge No., Structure ID, or FHWA No.	Type of Restrictio
					108-23A 08-01-08				
TRAFFIC				CONTROL PLAN	08-01-08			S	TAGING
			111-01 04-17-12					11. 04-16	3-2
	04-17-12 COORDINATED OPERATIONS Other work in progress during the same period of time will include the construction of the projects listed. Coordinate			*Assumes 6 foot wide barricade.	PEDESTRIAN PAT Refer to TC-		RES	04-16	5-13
include the operations same area.	with those of	F other contractor	s working within the	Closures may need to be removed and re-es Location	Side	Type III Barricades* No.	Rema	rks	
	Project		Type of Work			NO.			

FILE NO. ENGLISH DESIGN TEAM KELLY/MEISE BLACK HAWK COUNTY PROJECT NUMBER NHSX-058-1(100)3H
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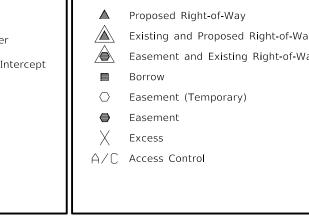
					108-25 10-21-14
f ion	Existing Measurement	Construction Measurement	Construction Measurement as Signed	Projected As Built Measurement	Remarks
				1	09 264

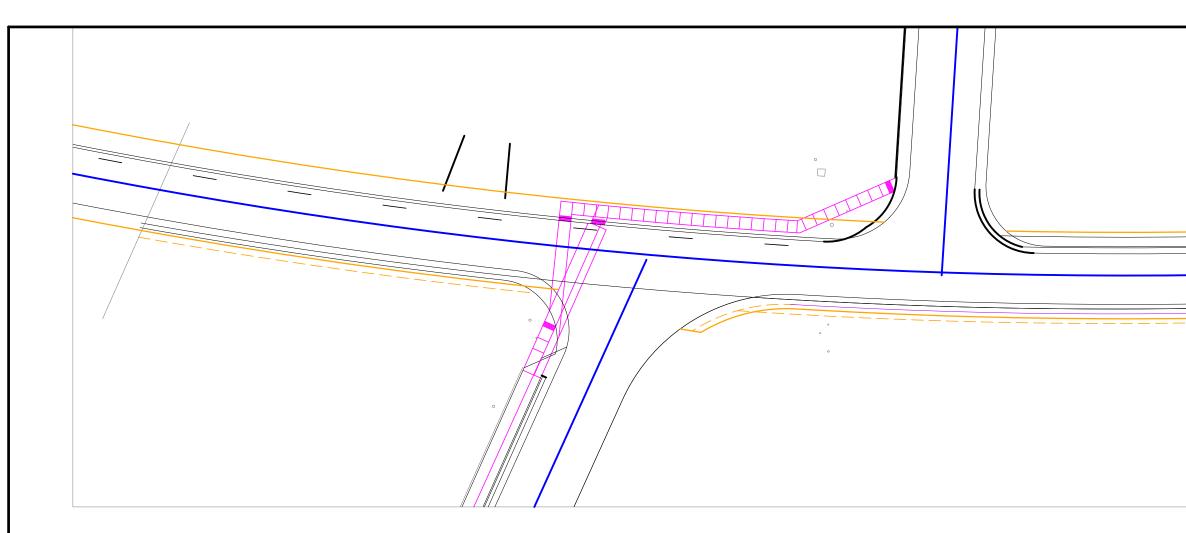
108-26A 08-01-08

# NOTES

-058-1(101)3L-07	SHEET NUMBER	J.1

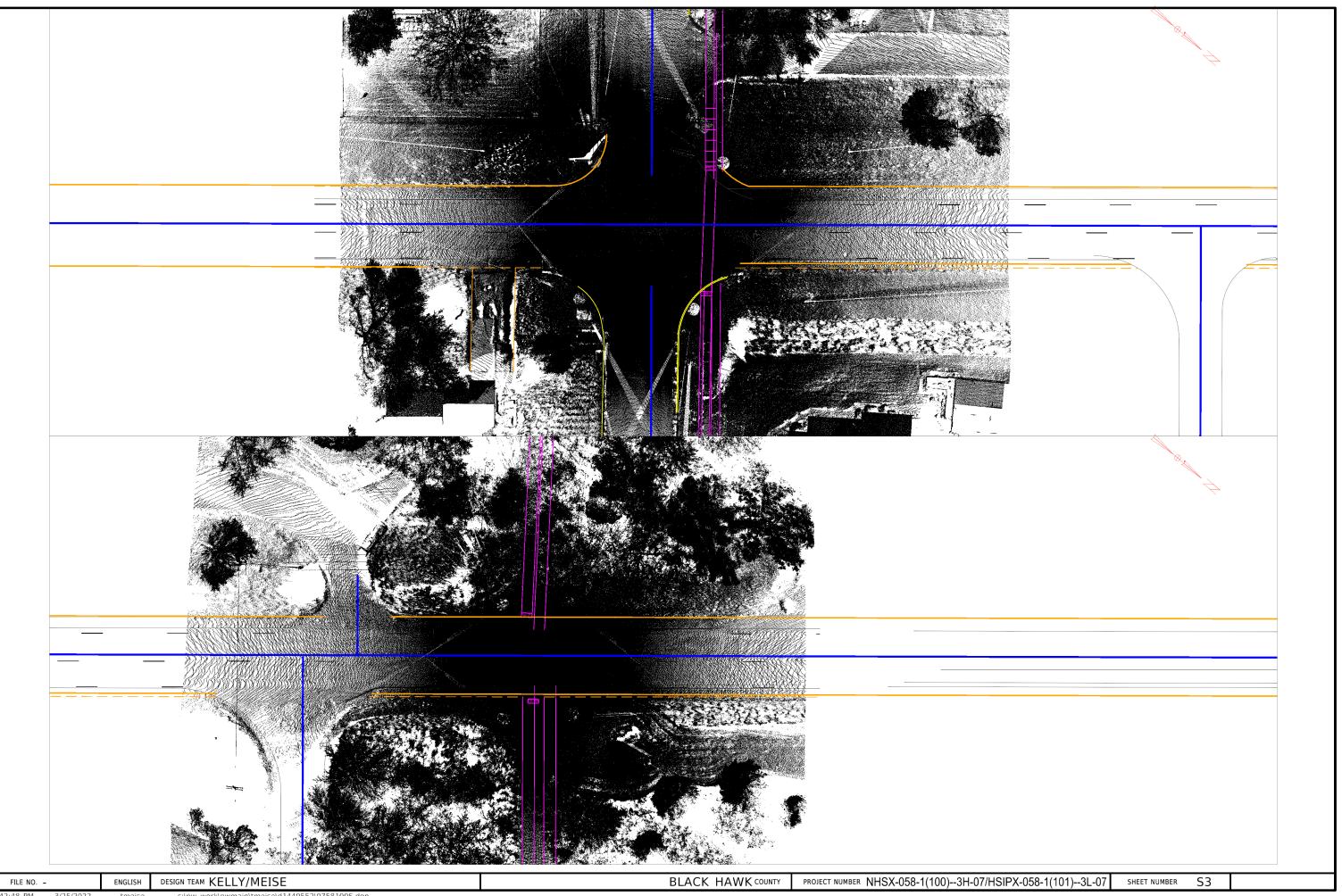
		UTILITY LEGEND	PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS
SURVEY SYMBOLS			LINEWORK Design Color No.
Interstate Highway Symbol	Septic Tank		Green (2) Existing Topographic Features and Labels
U.S. Highway Symbol	(Ĉ) Cistern		Blue       (1)       Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation         Magenta       (5)       Existing Utilities
iowa Highway Symbol	LP. Gas Tank (No Footing)		SHADING Design Color No.
County Road Highway Symbol	UST Underground Storage Tank		Tan   (8)   Proposed Sidewalk Shading
Evergreen Tree	Latrine		Blue, Light(230)Proposed Sidewalk Landing ShadingPink(11)Proposed Sidewalk Ramp Shading
C Deciduous Tree	Satellite TV Dish		Magenta (5) Detectable Warning
Fruit Tree	⊙ WHU Water Hook Up		Yellow(4)Highlight for Critical Notes or FeaturesRed(3)ZZZZDelineates Restricted Areas
کی Shrub (Bushes)	🗆 RT Radio Tower		Lavender (9) Temporary Pavement Shading
Timber	⊙ TA Tower Anchor		Gray, Light(48)Proposed Pavement ShadingGray, Med(80)Proposed Granular Shading
Hedge	Guardrail (Beam or Cable)		Gray, Dark (112) Proposed Grade and Pave Shading
A Stump	GP Guard Post (one or two)		Brown, Light (236) Grading Shading
<u>مالد</u> Swamp	Guard Post (over two)		Reference RIGHT-OF-WAY LEGEND
Ⅲ三 Rock Outcrop	⊙ FP Filler Pipe		Point — + Survey Line A Proposed Right-of-Way
ింసిం Broken Concrete	⊙ GV Gas Valve		Station           Station         Image: Section Corner         Image: Section Corne         Im
$ \begin{array}{c} & & \triangle & \triangle \\ & \nabla & \nabla & \nabla \end{array} \\ \end{array} $ Revetment (Rip Rap)	⊙ WV Water Valve		Easement and Existing Right-of-Way
† Cemetery	⊙ SL Speed Limit Sign		a Borrow
G Grave	⊙ MM Mile Marker Post		Saw Cut 🔿 Easement (Temporary)
Grave (ĈV) Cave (SH) Sink Hole	SIGN Sign		Guardrail 🖨 Easement
(SH) Sink Hole	TCB Traffic Signal Control Box		Clearing & Grubbing Area
Board Fence	RRB Rail Road Signal Control Box		Pavement Removal A/C Access Control
# # Chain Link or Security Fence	TSB Telephone Switch Box		
	EB Electric Box		
<del>∧ <sub>∨</sub> ∧ <sub>∨</sub> Terrace</del>			
Earth Dam or Dike (Existing)			
⊙ Tile Outlet			
— ···· Edge of Water			
───> Existing Drainage			
Right of Way Rail or Lot Corner			
Concrete Monument			
💢 Well			
Windmill			
🚫 🛛 Beehive Intake			
Existing Intake			
Existing Utility Access (Manhole)			
i Fire Hydrant			
● WH Water Hydrant (Rural)			
			SIDEWALK
			LEGEND AND SYMBOL
			INFORMATION SHEET
			(COVERS SHEET SERIES S)
FILE NO ENGLISH DESIGN TEAM KELLY/ME			ROJECT NUMBER NHSX-058-1(100)3H-07/HSIPX-058-1(101)-3L-07 SHEET NUMBER S1 REVISED
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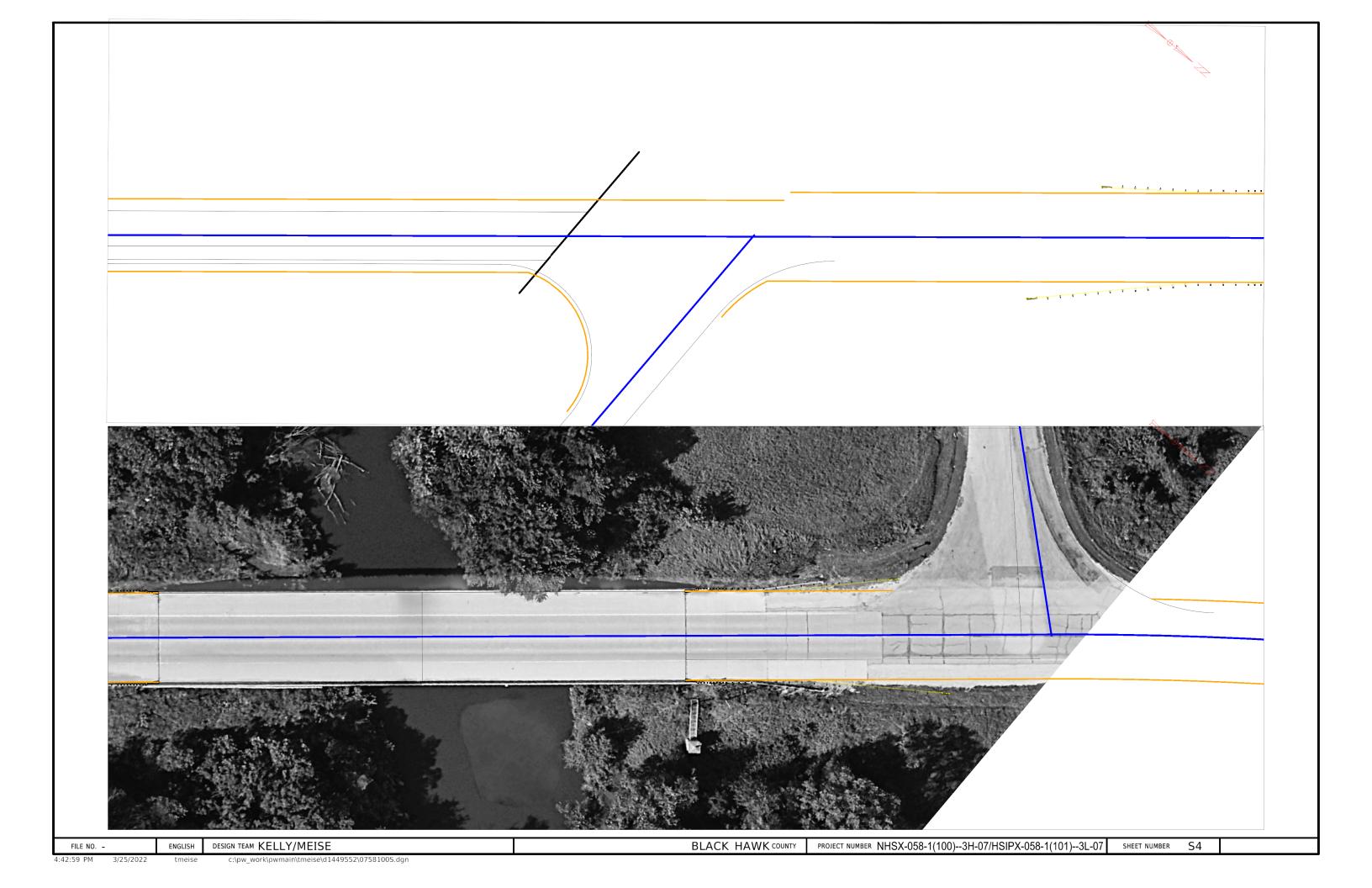


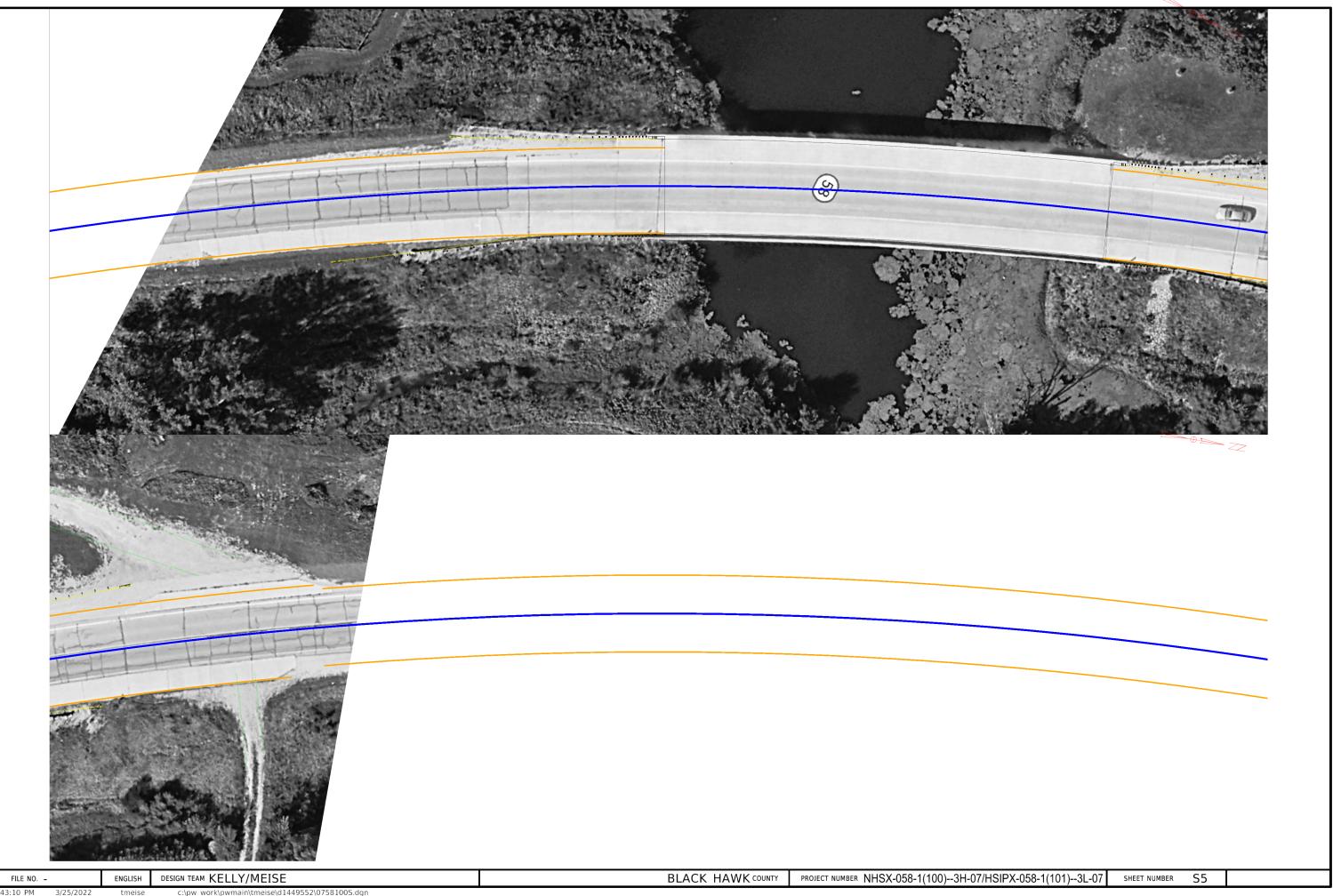


04-21-3 SIDEWALK COMPLIANCE See S Sheets 1 Staking required by Contracting Authority per Article 2511.03 of the Standard Specifications. 2 Refer to tabulation 113-01 for bid quantities.										113-10A 04-21-20					
Point	to Point	Sidewalk Designation	_" PCC Sidewalk	Distance*	∆ Elevation	Slope	Acceptable Constructed Range	Staking Required on this Quadrant?	Measured Slope	Initials	Remarks	VAL	FOR INFORM UES USED TO DETER Northing	ATION ONLY: RMINE DESIGNED SI Easting	LOPES Elevation
	1		C	FT	FT	%	Pos. or Neg.		%						
301	302	Ramp Running Slope	6	12.25	-1.11	-9.1%	0.5% to 10.1%					301	154442+46.90	8809204.61	
302	303	Landing/Turning Space	4	5.00	-0.18	-3.6%	0.1% to 4.6%					302	154442+59.15		
303	304	Sidewalk Running Slope	4	10.00	-0.72	-7.2%	0.5% to 8.2%					303	154442+64.15		
301	305	Crosswalk Cross Slope - No Yield Condition	6	12.94	-1.38	-10.7%	0.0% to 11.7%					304	154442+74.15		
305	306	Ramp Running Slope	6	2.08	-0.06	-2.9%	0.5% to 8.3%					305	154442+57.06	8809212.61	
306	307	Landing/Turning Space	4	5.00	-0.46	-9.2%	0.1% to 10.2%					306	154442+59.15		
307	308	Sidewalk Running Slope	4	10.00	-0.30	-3.0%	0.5% to 5.0%					307	154442+64.15		
302	306	Ramp Cross Slope	6	8.00	-0.33	-4.1%	0.1% to 5.1%					308	154442+74.15	8809212.61	929.42
303	307	Landing/Turning Space	4	8.00	-0.61	-7.6%	0.1% to 8.6%								
304	308	Match Existing Cross Slope	4	8.00	-0.19	-2.4%	Match Existing								
401												401			
												402			

FILE NO.		ENGLISH	DESIGN TEAM KELLY/MEISE	BLACK HAWK COUNTY	PROJECT NUMBER NHSX-058-1(100)3H-07/HSIPX-058-1(101)-3L-07	SHEET NUMBER S2	
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