

FILENAME: S:\Red_Team\Projects\108023_Fremont County J64 Preliminary Design\Civil_3D\Engineering\Drawings\108023_FRONT END SHEETS.dwg
DRAWN BY: Jns, SAVE DATE: Jul 16, 2026 1:48 PM DATE PLOTTED: 7/20/2026 3:42 PM, PLOT SCALE: 1:2

PCC PAVEMENT – GRADE AND REPLACE
PROJ NO. STP–S–C036(93)–5E–36
LETTING DATE
OCT. 20, 2026

FREMONT COUNTY



PLANS OF PROPOSED IMPROVEMENTS ON THE
FARM TO MARKET SYSTEM
FREMONT COUNTY
PROJECT NO. STP–S–C036(93)–5E–36
PCC PAVEMENT – GRADE AND REPLACE
ON J64 (310TH ST), FROM HWY 275
E 3.5 MILES TO L68 (330TH AVE)

REFER TO THE PROPOSAL FORM FOR LIST OF APPLICABLE SPECIFICATIONS.

VALUE ENGINEERING SAVES. REFER TO ARTICLE 1105.14 OF THE SPECIFICATIONS

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

REVISIONS

4–30–02	101–4
DESIGN DATA RURAL	
2025 AADT	436 V.P.D.
2050 AADT	620 V.P.D.
2050 DHV	V.P.H.
TRUCKS	15 %
Total	
Design ESALs	

TOTAL SHEETS
30
PROJECT IDENTIFICATION NUMBER
PROJECT NUMBER
STP–S–C036(93)–5E–36

INDEX OF SHEETS

NO.	DESCRIPTION
A.01	TITLE SHEET
B.01	TYPICAL ROADWAY SECTIONS
B.02	TYPICAL ROADWAY SECTIONS
C.01	PROJECT DESCRIPTION
C.02–.07	TABULATIONS
D.01	LEGEND AND SYMBOL INFO. SHEET
D.02–.14	PLAN AND PROFILE
G.01	ALIGNMENT AND CONTROL POINTS
J.01	TRAFFIC CONTROL LEGEND AND SYMBOL
J.02	STAGING PLAN
W.01–.03	CROSS SECTIONS

APPLICABLE STANDARD ROAD PLANS
ARE LISTED ON SHEET C.03

FOR UTILITY CONTACTS REFER TO
SHEET D.01

APPROVED

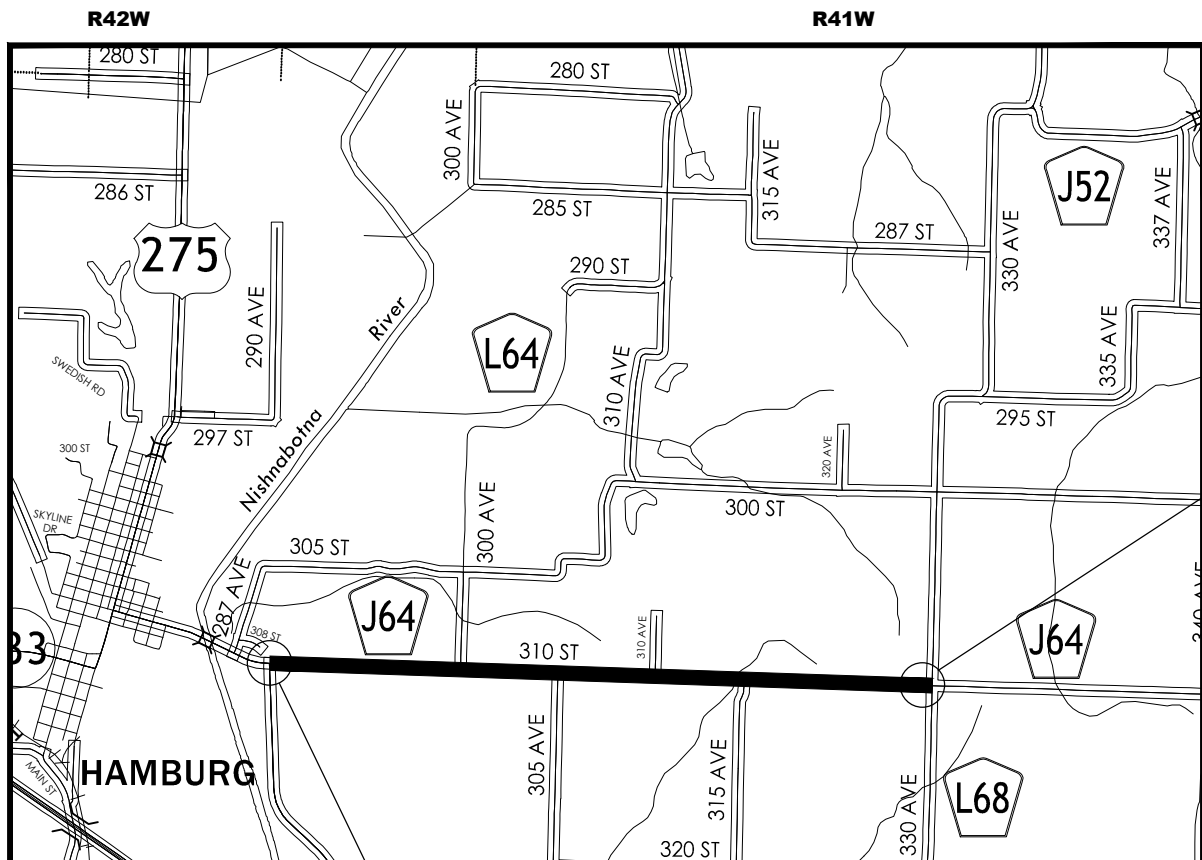
FREMONT COUNTY ENGINEER DATE

APPROVED

BOARD OF SUPERVISORS DATE



STA. 181+95
END PROJECT



LOCATION MAP
(NOT TO SCALE)

STA. 2+21
BEGIN PROJECT

INDEX OF SEALS

SHEET NO.	NAME	TYPE
A.01	ZACHARY M. WHEAT	PRIMARY SIGNATURE BLOCK

ROADWAY DESIGN



I hereby certify that this engineering document was prepared
by me or under my direct personal supervision and that I
am a duly licensed Professional Engineer under the laws
of the State of Iowa.

Signature ZACHARY M. WHEAT JULY 21, 2026
Printed or Typed Name Date

My license renewal date is December 31, 2026

Pages or sheets covered by this seal: A.01, B.01, B02, C.01–.06,
D.01–D.14, G.01, J.01, J.02, W.01–.03

DESIGN TEAM – HCM * CADD * PRODUCED

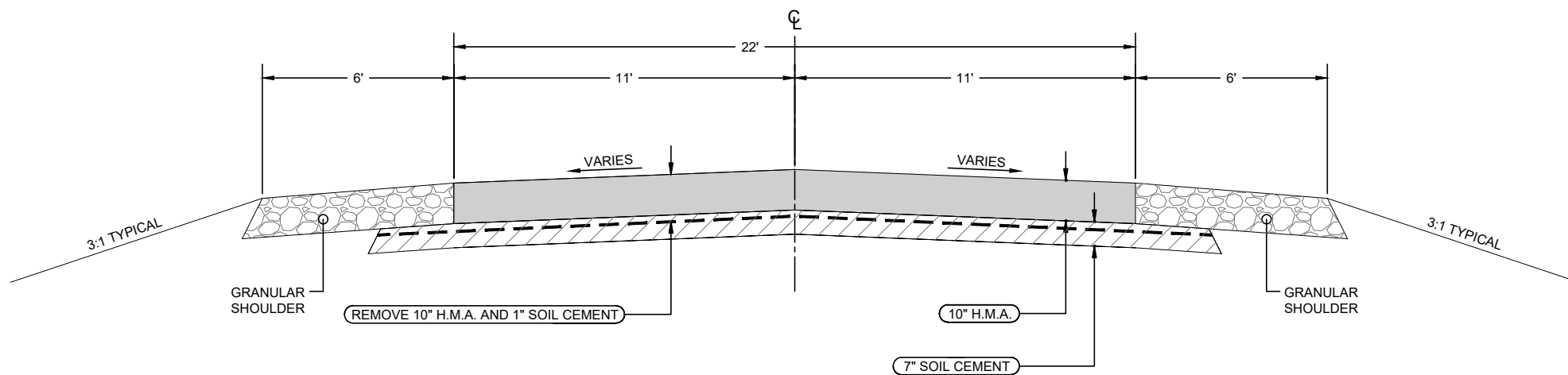
STATE OF IOWA

FREMONT COUNTY

PROJECT NUMBER STP–S–C036(93)–5E–36

SHEET NUMBER A.01

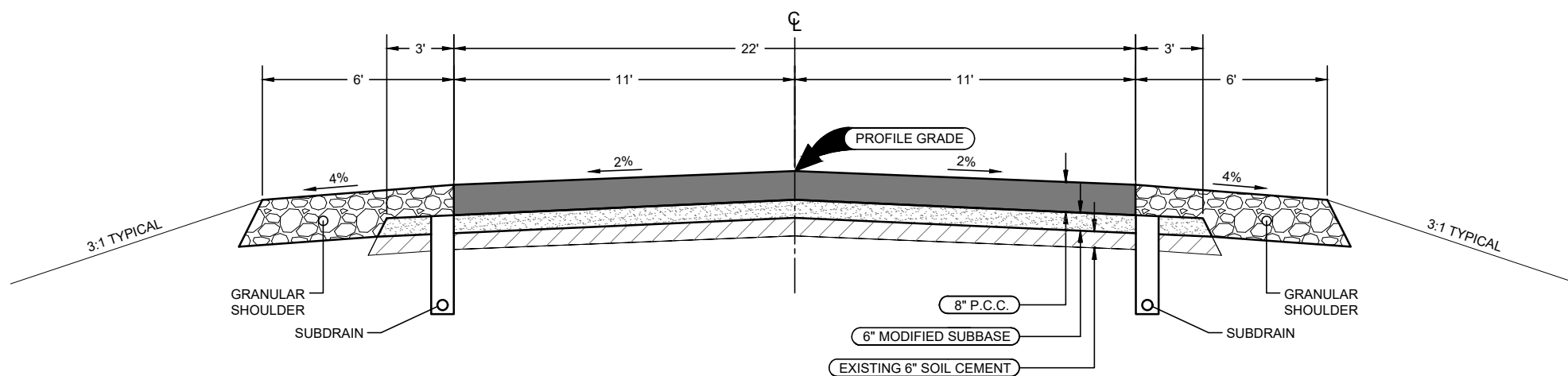
FILENAME: S:\Red_Team\Projects\108023_Fremont County J64 Preliminary Design\Civil_3D\Engineering\Drawings\108023_FRONT END SHEETS.dwg
DRAWN BY: Jns, SAVE DATE: Jul 1, 2026 9:10 AM DATE PLOTTED: 7/1/2026 1:42 PM, PLOT SCALE: 1:2



EXISTING J64/310TH STREET TYPICAL SECTION

NO SCALE

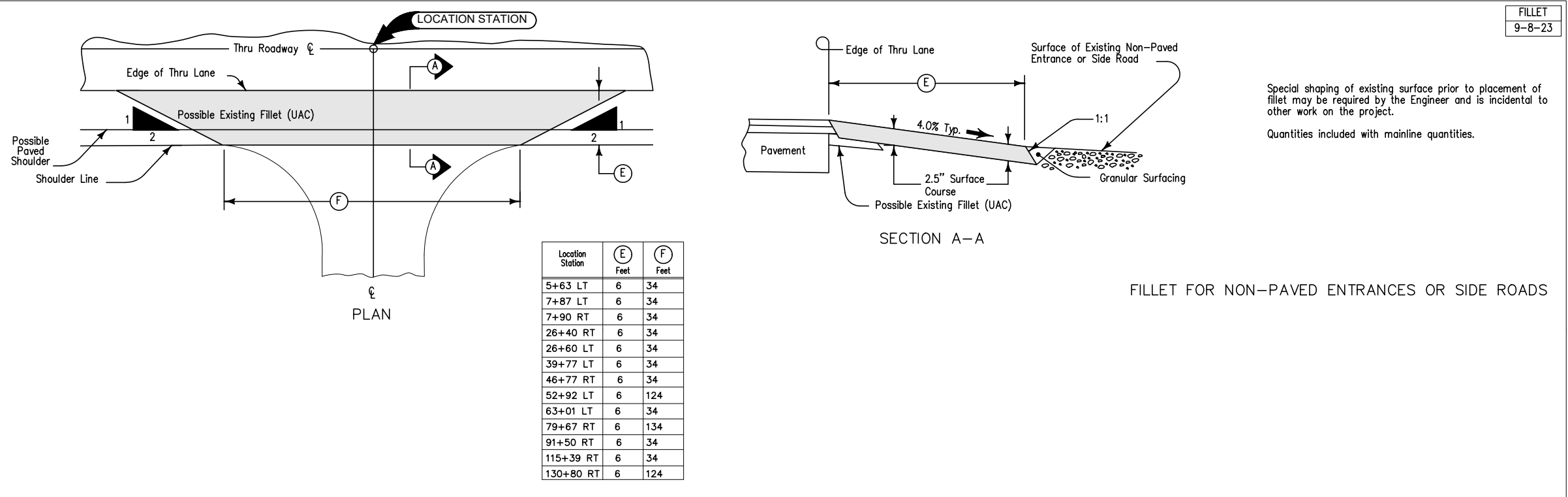
STA. 2+21 TO STA. 181+95



PROPOSED J64/310TH STREET TYPICAL SECTION

NO SCALE

STA. 2+21 TO STA. 181+95



PROJECT DESCRIPTION

100-01D
10-15-24

THIS PROJECT INVOLVES THE REMOVAL AND PLACEMENT OF PCC PAVEMENT ON FREMONT CO. J64, FROM US HWY 275 EAST TO 330TH AVE. IT ALSO INCLUDES REPLACEMENT OF ROADWAY DRAINAGE STRUCTURES.

ESTIMATED ROADWAY QUANTITIES

100-01A
10-15-24

Line No.	Item No.	Item Code	Item	Unit	Division 1	Division 2	As Built Qty.
	1.	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CY	200.00		
	2.	2115-0100000	MODIFIED SUBBASE	CY	8,654.00		
	3.	2121-7425020	GRANULAR SHOULDERS, TYPE B	TON	14,794.92		
	4.	2214-5145150	PAVEMENT SCARIFICATION, NOMINAL THICKNESS	SY	43,936.00		
	5.	2214-7450050	BLADING AND SHAPING SHOULDER MATERIAL	STA	352.26		
	6.	2301-1032080	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 2 DURABILITY, 8 IN.	SY	43,936.00		
	7.	2301-6911722	PORTLAND CEMENT CONCRETE PAVEMENT SAMPLES	LS	1.00		
	8.	2315-8275055	SURFACING, DRIVEWAY	TON	130.00		
	9.	2402-2720100	EXCAVATION, CLASS 20, FOR ROADWAY PIPE CULVERT	CY	3,157.00		
	10.	2415-2110403	PRECAST CONCRETE BOX CULVERT, 4 FT. X 3 FT.	LF	75.00		
	11.	2415-2110404	PRECAST CONCRETE BOX CULVERT, 4 FT. X 4 FT.	LF	132.00		
	12.	2415-2200403	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 4 FT. X 3 FT.	EACH	2.00		
	13.	2415-2200404	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 4 FT. X 4 FT.	EACH	4.00		
	14.	2416-0100024	APRONS, CONCRETE, 24 IN. DIA.	EACH	4.00		
	15.	2416-0100030	APRONS, CONCRETE, 30 IN. DIA.	EACH	2.00		
	16.	2416-0100036	APRONS, CONCRETE, 36 IN. DIA.	EACH	8.00		
	17.	2416-0100042	APRONS, CONCRETE, 42 IN. DIA.	EACH	2.00		
	18.	2416-1160024	CULVERT, CONCRETE ENTRANCE PIPE, 24 IN. DIA.	LF	139.00		
	19.	2416-1160030	CULVERT, CONCRETE ENTRANCE PIPE, 30 IN. DIA.	LF	69.00		
	20.	2416-1160036	CULVERT, CONCRETE ENTRANCE PIPE, 36 IN. DIA.	LF	281.00		
	21.	2416-1160042	CULVERT, CONCRETE ENTRANCE PIPE, 42 IN. DIA.	LF	55.00		
	22.	2417-1040024	CULVERT, CORRUGATED METAL ENTRANCE PIPE, 24 IN. DIA.	LF	24.00		
	23.	2499-6000100	CLEAN OUT PIPE CULVERT	LF	452.00		
	24.	2502-8212034	SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.	LF	35,948.00		
	25.	2502-8221303	SUBDRAIN OUTLET, DR-303	EACH	72.00		
	26.	2526-8285040	CONSTRUCTION SURVEY, LOCATION SURVEY	LS	1.00		
	27.	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	STA	571.08		
	28.	2528-2518000	SAFETY CLOSURE	EACH	6.00		
	29.	2528-8445110	TRAFFIC CONTROL	LS	1.00		
	30.	2528-8445113	FLAGGERS	EACH	PER PROPOSAL		
	31.	2528-8445115	PILOT CARS	EACH	PER PROPOSAL		
	32.	2533-4980005	MOBILIZATION	LS	1.00		
	33.	2555-0000010	DELIVER AND STOCKPILE SALVAGED MATERIALS	LS		1.00	
	34.	2601-2634100	MULCHING	ACRE	4.00		
	35.	2601-2636043	SEEDING AND FERTILIZING (RURAL)	ACRE	2.00		
	36.	2601-2642100	STABILIZING CROP - SEEDING AND FERTILIZING	ACRE	2.00		
	37.	2602-0000020	SILT FENCE	LF	1,000.00		
	38.	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	1,000.00		
	39.	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	LF	1,000.00		
	40.	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.	LF	1,000.00		
	41.	2602-0000351	REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE	LF	1,000.00		
	42.	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH	1.00		
	43.	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL	EACH	1.00		

ESTIMATE REFERENCE INFORMATION

100-04A
06-02-23

Line No.	Item No.	Item Code	Description
	1.	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD PLAN QUANTITY INCLUDES 6 - INCHES WITHIN THE RIGHT-OF-WAY PLANNED TO BE DISTURBED BY THE PROJECT.
	2.	2115-0100000	MODIFIED SUBBASE REFER TO TAB 100-24.
	3.	2121-7425020	GRANULAR SHOULDERS, TYPE B REFER TO TABULATION 112-9 FOR QUANTITIES AND LOCATIONS. REFER TO TYPICAL 7135 FOR DETAILS OF CONSTRUCTION. CALCULATED USING A UNIT WEIGHT OF 140 LBS/CF.
	4.	2214-5145150	PAVEMENT SCARIFICATION, NOMINAL THICKNESS REFER TO PR-202 FOR DETAILS OF CONSTRUCTION. REFER TO TAB 100-25.
	5.	2214-7450050	BLADING AND SHAPING SHOULDER MATERIAL BLADE AND SHAPE GRANULAR SHOULDER FOLLOWING SCARIFICATION TO ACCOMMODATE PAVEMENT DRAINAGE.

ESTIMATE REFERENCE INFORMATION

100-04A
06-02-23

Line No.	Item No.	Item Code	Description
	6.	2301-1032080	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 2 DURABILITY, 8 IN. REFER TO B SHEETS FOR TYPICAL SECTIONS. INCLUDES CERTIFIED PLANT INSPECTION. CONCRETE MIX SHALL BE CY-SUD-C15 AS SHOWN IN IM 529 PROPORTION TABLE 4 WITH CLASS V AGGREGATES, 15% MAX CLASS C FLY ASH, AND MAX W/C RATIO OF 0.40. ONLY TYPE 1PF CEMENT SHALL BE USED. BLENDED CEMENT SHALL MEET THE REQUIREMENTS OF SECTION 4101. FLY ASH SHALL COMPLY WITH SECTION 4108. THE MAXIMUM AMOUNT OF FLY ASH ALLOWED SHALL BE 15%. ONLY CLASS C FLY ASH SHALL BE USED. CRUSHED STONE SHALL COMPLY WITH SECTION 4115 AND MEET THE REQUIREMENTS FOR CLASS 3I DURABILITY. PROFILOGRAPH SMOOTHNESS IS NOT REQUIRED. REFER TO TAB 100-24.
	7.	2301-6911722	PORTLAND CEMENT CONCRETE PAVEMENT SAMPLES
	8.	2315-8275055	SURFACING, DRIVEWAY REFER TO TYPICAL FILLET ON SHEET B.02 FOR DETAILS.
	9.	2402-2720100	EXCAVATION, CLASS 20, FOR ROADWAY PIPE CULVERT REFER TO TAB. 104-3 ON SHEET C.03.
	10.	2415-2110403	PRECAST CONCRETE BOX CULVERT, 4 FT. X 3 FT. INCLUDES MATERIAL AND LABOR ASSOCIATED WITH PROVIDING AND INSTALLING THE CULVERT TIES, LIFTING HOLE PLUGS, ENGINEERING FABRIC, JOINT MATERIAL, AND GROUT AS REQUIRED.
	11.	2415-2110404	PRECAST CONCRETE BOX CULVERT, 4 FT. X 4 FT. INCLUDES MATERIAL AND LABOR ASSOCIATED WITH PROVIDING AND INSTALLING THE CULVERT TIES, LIFTING HOLE PLUGS, ENGINEERING FABRIC, JOINT MATERIAL, AND GROUT AS REQUIRED.
	12.	2415-2200403	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 4 FT. X 3 FT. INCLUDES MATERIAL AND LABOR ASSOCIATED WITH PROVIDING AND INSTALLING THE CULVERT TIES, LIFTING HOLE PLUGS, ENGINEERING FABRIC, JOINT MATERIAL, AND GROUT AS REQUIRED. INCLUDES 2 PRECAST END SECTIONS, 2 PRECAST LINTEL BEAMS, AND 2 PRECAST CURTAIN WALLS.
	13.	2415-2200404	PRECAST CONCRETE BOX CULVERT STRAIGHT END SECTION, 4 FT. X 4 FT. INCLUDES MATERIAL AND LABOR ASSOCIATED WITH PROVIDING AND INSTALLING THE CULVERT TIES, LIFTING HOLE PLUGS, ENGINEERING FABRIC, JOINT MATERIAL, AND GROUT AS REQUIRED. INCLUDES 2 PRECAST END SECTIONS, 2 PRECAST LINTEL BEAMS, AND 2 PRECAST CURTAIN WALLS.
	14.	2416-0100024	APRONS, CONCRETE, 24 IN. DIA. REFER TO TAB. 104-3 ON SHEET C.03
	15.	2416-0100030	APRONS, CONCRETE, 30 IN. DIA. REFER TO TAB. 104-3 ON SHEET C.03
	16.	2416-0100036	APRONS, CONCRETE, 36 IN. DIA. REFER TO TAB. 104-3 ON SHEET C.03
	17.	2416-0100042	APRONS, CONCRETE, 42 IN. DIA. REFER TO TAB. 104-3 ON SHEET C.03
	18.	2416-1160024	CULVERT, CONCRETE ENTRANCE PIPE, 24 IN. DIA. REFER TO TAB. 104-3 ON SHEET C.03
	19.	2416-1160030	CULVERT, CONCRETE ENTRANCE PIPE, 30 IN. DIA. REFER TO TAB. 104-3 ON SHEET C.03
	20.	2416-1160036	CULVERT, CONCRETE ENTRANCE PIPE, 36 IN. DIA. REFER TO TAB. 104-3 ON SHEET C.03
	21.	2416-1160042	CULVERT, CONCRETE ENTRANCE PIPE, 42 IN. DIA. REFER TO TAB. 104-3 ON SHEET C.03
	22.	2417-1040024	CULVERT, CORRUGATED METAL ENTRANCE PIPE, 24 IN. DIA.
	23.	2499-6000100	CLEAN OUT PIPE CULVERT
	24.	2502-8212034	SUBDRAIN, LONGITUDINAL, (SHOULDER) 4 IN. DIA.
	25.	2502-8221303	SUBDRAIN OUTLET, DR-303
	26.	2526-8285040	CONSTRUCTION SURVEY, LOCATION SURVEY
	27.	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED REFER TO TAB 108-22 AND STANDARD ROAD PLAN PM-110 FOR LOCATION AND DETAILS OF CONSTRUCTION.
	28.	2528-2518000	SAFETY CLOSURE
	29.	2528-8445110	TRAFFIC CONTROL REFER TO TRAFFIC CONTROL PLAN ON SHEET J.01.
	30.	2528-8445113	FLAGGERS
	31.	2528-8445115	PILOT CARS
	32.	2533-4980005	MOBILIZATION
	33.	2555-0000010	DELIVER AND STOCKPILE SALVAGED MATERIALS REFER TO TAB. 110-13.
	34.	2601-2634100	MULCHING PERFORM MULCHING ACCORDING TO ARTICLE 2601.03, E, 2, OF THE STANDARD SPECIFICATIONS. ANCHOR MULCH INTO THE SOIL USING MULCH ANCHORING EQUIPMENT WITH A MINIMUM OF TWO PASSES. ITEM IS INCLUDED FOR AREAS REQUIRING RESHAPING AND SEEDBED PREPARATION. USE MULCH THAT IS CERTIFIED NOXIOUS WEED SEED FREE MULCH AS CERTIFIED BY THE IOWA CROP IMPROVEMENT ASSOCIATION OR ADJACENT STATES CROP IMPROVEMENT ASSOCIATIONS. MULCH RATE: 1 1/2 TONS OF DRY CEREAL STRAW OR NATIVE GRASS STRAW PER ACRE.MULCHING MULCHING SHALL BE APPLIED AS DESCRIBED IN STANDARD SPECIFICATION SECTION 2601. AFTER SEEDING, MULCH ALL AREAS DISTURBED BY GRADING EXCEPT WHERE SLOPE PROTECTION HAS BEEN APPLIED.

DESIGN TEAM - HCM * CADD * PRODUCEDSTATE OF IOWAFREMONT COUNTYPROJECT NUMBERSTP-S-C036(93)--5E-36SHEET NUMBERC.01

100-04A

06-02-23

ESTIMATE REFERENCE INFORMATION

Line No.	Item No.	Item Code	Description
	35.	2601-2636043	SEEDING AND FERTILIZING (RURAL) SEEDING SHALL MEET THE REQUIREMENTS SET FORTH IN IDOT STANDARD SPECIFICATIONS AND ANY APPLICABLE SUPPLEMENTAL SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY WITH THE ENGINEER ALL AREAS TO BE SEEDED PRIOR TO COMMENCING ANY WORK ON THIS ITEM.
	36.	2601-2642100	STABILIZING CROP - SEEDING AND FERTILIZING STABILIZING CROP INCLUDED AS NECESSARY FOR TEMPORARY SEEDING OUTSIDE OF THE PERMANENT SEEDING WINDOW. MBFM MULCH INCLUDED FOR PERMANENT AND TEMPORARY SEEDING.
	37.	2602-0000020	SILT FENCE REFER TO TAB. 100-17 ON SHEET C.04. SEE STANDARD ROAD PLAN EC-201.
	38.	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS REMOVAL AND RE-INSTALLATION OF SILT FENCE FOR CONSTRUCTION ACCESS SHALL BE INCIDENTAL TO THE ORIGINAL INSTALLATION PRICE AND SHALL NOT INCLUDE PAYMENT FOR ADDITIONAL EROSION CONTROL MOBILIZATION.
	39.	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK THIS ITEM IS INCLUDED FOR MAINTAINING THE NEW SILT FENCE AND SILT FENCE DITCH CHECKS INSTALLED FOR THE PAVING PROJECT AND EXISTING SILT FENCE AND SILT FENCE DITCH CHECKS INSTALLED AS PART OF THE GRADING PROJECT.
	40.	2602-0000312	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 12 IN. DIA.
	41.	2602-0000351	REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE ITEM IS INCLUDED FOR TEMPORARY PERIMETER SEDIMENT CONTROL, INLET PROTECTION, AND WATER VELOCITY REDUCTION ON SLOPES OR DITCHES AT LOCATIONS TO BE DETERMINED DURING CONSTRUCTION. VERIFY SPECIFIC LOCATIONS WITH THE ENGINEER PRIOR TO BEGINNING PLACEMENT. USE PERIMETER AND SLOPE SEDIMENT CONTROL DEVICES FABRICATED USING WOOD EXCELSIOR.
	42.	2602-0010010	MOBILIZATIONS, EROSION CONTROL
	43.	2602-0010020	MOBILIZATIONS, EMERGENCY EROSION CONTROL

- ① Lane(s) to which the shoulder is adjacent.
- ② See Typ. ~~7156, 7157, or 7158~~.
- ③ Bid Item.
- ④ Applies only for Paved Shoulders constructed on project with existing granular shoulders.
- ⑤ Bid Item. Typ. ~~7156, 7157, or 7158~~.
- ⑥ Does not include shrink.
- ⑦ Paved shoulder thickness specified in Remarks.
- ⑧ Subbase type specified in Remarks.

SHOULDERS

112-09
10-15-24

Road Identification	① Direction Of Traffic	Station From	Station To	Side	P Width (FT)	P SG Width② (FT)	G Width (FT)	L Length (FT)	Class 13 Excavation (CY) ③	HMA (TON)	HMA (TON/STA)	Binder	Paved Shoulder (SY) ③	Paved Shoulder at Guardrail (SY) ⑤ ⑦	Reinforced Paved Shoulder (SY) ③	Special Backfill HMA Alt (TON) ③	Special Backfill HMA Alt (TON/STA)	Special Backfill PCC Alt (TON) ③	Special Backfill PCC Alt (TON/STA)	Polymer Grid (SY)	Subbase ③ (CY) ⑧	Granular Shoulder ③ (TON) ③	Granular Shoulder (TON/STA)	Shoulder Const. Alt. ③ (STA)	Shoulder Const. Alt. HMA (CY) ⑥	Shoulder Const. Alt. PCC (CY) ⑥	Remarks	
J64		2+21	7+73	RT			6	552														231.84	42	5.52				
J64		8+07	26+23	RT			6	1816														762.72	42	18.16				
J64		26+57	46+60	RT			6	2003														841.26	42	20.03				
J64		46+94	79+00	RT			6	3206														1346.52	42	32.06				
J64		80+34	91+33	RT			6	1099														461.58	42	10.99				
J64		91+67	115+22	RT			6	2355														989.1	42	23.55				
J64		115+56	130+18	RT			6	1462														614.04	42	14.62				
J64		131+42	181+95	RT			6	5053														2122.26	42	50.53				
J64		2+21	5+46	LT			6	325														136.5	42	3.25				
J64		5+80	7+70	LT			6	190														79.8	42	1.9				
J64		8+04	26+43	LT			6	1839														772.38	42	18.39				
J64		26+77	39+60	LT			6	1283														538.86	42	12.83				
J64		39+94	52+30	LT			6	1236														519.12	42	12.36				
J64		53+54	62+84	LT			6	930														390.6	42	9.3				
J64		63+18	181+95	LT			6	11877														4988.34	42	118.77				
																						TOTAL 14794.92	TOTAL 352.26					

PAVEMENT MARKING LINE TYPES

See PM-110

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

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

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

BCY4: Broken Centerline (Yellow) @ 0.25

DCY4: Double Centerline (Yellow) @ 2.00

NPY4: No Passing Zone Line (Yellow) @ 1.25

BLW4: Broken Lane Line (White) @ 0.25

ELW4: Edge Line Right (White) @ 1.00

[illegible]

DESIGN TEAM — HGM * CADD * PRODUCED

STATE OF IOWA

FREMONT COUNTY

PROJECT NUMBER

STP-S-C036(93)--5E-36

SHEET NUMBER C.04

TABULATION OF SILT FENCES						100-17 8-15-22
Refer to EC-201						
Line No.	Station From	Station To	Side	Length (FT)	Remarks	
				1,000.00	* TO BE PLACED AT THE DIRECTION OF THE ENGINEER	

PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE								100-19 10-15-24
Possible Standards: EC-204								
Line No.	Station From	Station To	Side	Sediment Control Device Type	Diameter Size	Length (LF)	Remarks	
					12"	1,000.00	* TO BE PLACED AT THE DIRECTION OF THE ENGINEER	

100-24

10-15-24

PCC PAVEMENT

(1) Does not include raised island area or curb. Refer to tabulation 112-4 for quantities.

(2) Refer to PV-410, PV-411, PV-412, and PV-414.

(3) Quantity includes Pavement Header.

Line No.	Road Identification	Direction of Travel	Station From	Station To	Width (FT)	Length (FT)	Area (SY)	Area A(1) (SY)(3)	Area B (SY)(3)	Area C (SY)(3)	Area D (SY)(3)	Area E (SY)(3)	Area F(2) (SY)(3)	Area G (SY)(3)	Area H (SY)(3)	Area by Thickness - Thickness(IN)	Area by Thickness - Area (SY)	Polymer Grid (SY)	Special Backfill (TON)	Modified Subbase (CY)	Granular Subbase (SY)	Remarks
1.	J64	EB/WB	2+21	181+95	22	17,974	43,936									8				8,654		

104-05C

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 Diameter (IN)	Pipe Length (LF)	Apron Type	Apron Quantity	Outlet Type	Outlet Quantity	Connected Pipe Joints Type* (DR-121)	Connected Pipe Joints No.* (DR-121)	Trench Drain (LF)	Granular Blanket Material (CY)	Porous Backfill* (CY)	Class ""A"" Crushed Stone* (CY)	Remarks
1.	2+21	181+95	DR-303	PLASTIC	4	35,948			DR-303	72							
					TOTAL - 35,948					TOTAL - 72							

104-08A

5-08-24

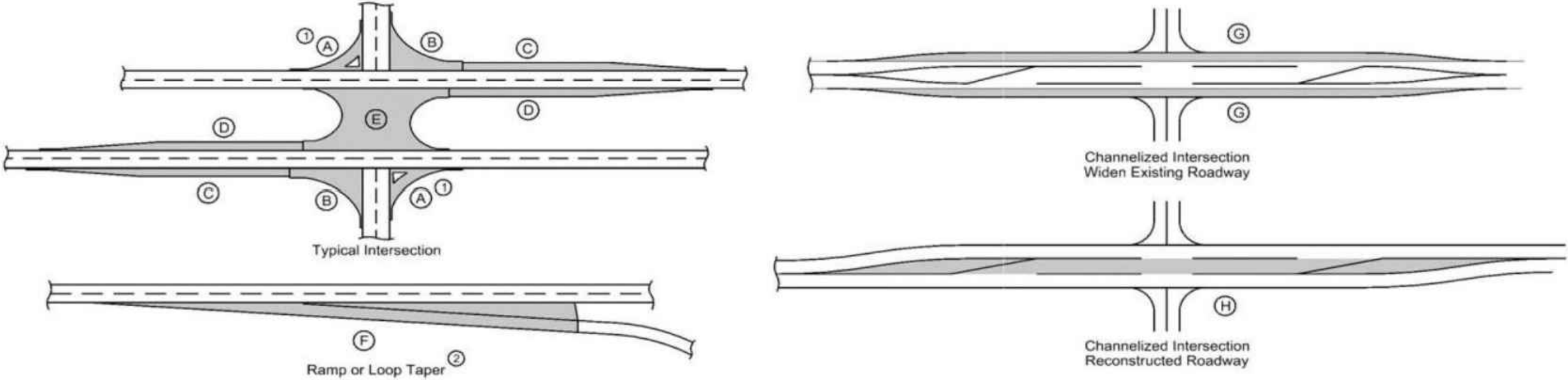
LONGITUDINAL SUBDRAIN SHOULDER

* Not a bid item.

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
1.	J64	2+21	181+95	RT/LT	24	4	35,948				OUTLETS AT 500' SPACING MAX
							TOTAL - 35,948				

SAFETY CLOSURES				108-13A 10-04-23
Refer to Section 2518 of the Standard Specifications				
Station	Road Closure Qty.	Hazard Closure Qty.	Remarks	
2+00	1		STAGE 1 BEGINNING OF PROJECT	
52+00	1		STAGE 1 300TH AVENUE	
52+50	1		STAGE 2 300TH AVENUE	
130+00	1		STAGE 2 315TH AVENUE	
130+25	1		STAGE 3 315TH AVENUE	
182+00	1		STAGE 3 END OF PROJECT	
	TOTAL - 6			

HMA PAVEMENT



(1) Does not include raised island area or curb. Refer to tabulation 112-4 for quantities.
(2) Refer to PV-410, PV-411, PV-412, and PV-414.
(3) Quantity includes Pavement Header.

Line No.	Road Identification	Direction of Travel	Station From	Station To	Width (FT)	Length (FT)	Area (SY)	Area A(1) (SY)(3)	Area B (SY)(3)	Area C (SY)(3)	Area D (SY)(3)	Area E(2) (SY)(3)	Area F (SY)(3)	Area G (SY)(3)	Area H (SY)(3)	HMA Pavement Surface (TONS)	HMA Pavement Surface (SY)	HMA Pavement Intermediate (TONS)	HMA Pavement Intermediate (SY)	HMA Pavement Base (TONS)	HMA Pavement Base (SY)	Binder Surface (TONS)	Binder Intermediate (TONS)	Binder Base (TONS)	Polymer Grid (SY)	Special Backfill (TONS)	Modified Subbase (CY)	Granular Subbase (SY)	Pavement Scarification (SY)	Remarks
1.	J64	WB/EB	2+21	181+95	22.0	17,974																							43,936	

DELIVERY AND STOCKPILING

Line No.	Item Description	Quantity	Quantity Units	Delivery Location	Contact Name	Contact Number	Remarks
1.	PAVEMENT SCARIFICATION	43,936	SY	2014 290TH AVE, SIDNEY, IA 51652	DAN DAVIS	(712)374-2613	COORDINATE WITH COUNTY ENGINEER BEFORE DELIVERY OF MILLINGS

POLLUTION PREVENTION PLAN 110-12 1-13-23				POLLUTION PREVENTION PLAN 110-12 1-13-23			
THIS PROJECT IS REGULATED BY THE REQUIREMENTS OF THE IOWA DEPARTMENT OF NATURAL RESOURCES (DNR) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) GENERAL PERMIT NO. 2 OR AN IOWA DEPARTMENT OF NATURAL RESOURCES (DNR) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) INDIVIDUAL STORM WATER PERMIT. THE CONTRACTOR SHALL CARRY OUT THE TERMS AND CONDITIONS OF THIS PERMIT AND THE POLLUTION PREVENTION PLAN (PPP). THIS BASE PPP INCLUDES INFORMATION ON ROLES AND RESPONSIBILITIES, PROJECT SITE DESCRIPTION, CONTROLS, MAINTENANCE PROCEDURES, INSPECTION REQUIREMENTS, NON-STORM WATER CONTROLS, POTENTIAL SOURCES OF OFF RIGHT-OF-WAY POLLUTION, AND DEFINITIONS. THIS PLAN REFERENCES OTHER DOCUMENTS RATHER THAN REPEATING THE INFORMATION CONTAINED IN THE DOCUMENTS. A COPY OF THIS BASE POLLUTION PREVENTION PLAN, AMENDED AS NEEDED PER PLAN REVISIONS OR BY CONTRACT MODIFICATION, WILL BE READILY AVAILABLE FOR REVIEW. ALL CONTRACTORS SHALL CONDUCT THEIR OPERATIONS IN A MANNER THAT CONTROLS POLLUTANTS, MINIMIZES EROSION, AND PREVENTS SEDIMENTS FROM ENTERING WATERS OF THE STATE AND LEAVING THE HIGHWAY RIGHT-OF-WAY. THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE AND IMPLEMENTATION OF THE PPP FOR THEIR ENTIRE CONTRACT. THIS RESPONSIBILITY SHALL BE FURTHER SHARED WITH SUBCONTRACTORS WHOSE WORK IS A SOURCE OF POTENTIAL POLLUTION AS DEFINED IN THIS PPP. I. ROLES AND RESPONSIBILITIES A. DESIGNER: - PREPARES BASE PPP INCLUDED IN THE PROJECT PLAN. - PREPARES NOTICE OF INTENT (NOI) SUBMITTED TO IOWA DNR. - IS SIGNATURE AUTHORITY ON THE BASE PPP. B. CONTRACTOR: - SIGNS A CO-PERMITTEE CERTIFICATION STATEMENT ADHERING TO THE REQUIREMENTS OF THE NPDES PERMIT AND THIS PPP. ALL CO-PERMITTEES ARE LEGALLY REQUIRED UNDER THE CLEAN WATER ACT AND THE IOWA ADMINISTRATIVE CODE TO ENSURE COMPLIANCE WITH THE TERMS AND CONDITIONS OF THIS PPP. - DESIGNATES A WATER POLLUTION CONTROL MANAGER (WPCM), WHO HAS THE DUTIES AND RESPONSIBILITIES AS DEFINED IN SECTION 2602 OF THE STANDARD SPECIFICATIONS. - SUBMITS AN EROSION CONTROL IMPLEMENTATION PLAN (ECIP) AND ECIP UPDATES ACCORDING TO SECTION 2602 OF THE STANDARD SPECIFICATIONS. - INSTALLS AND MAINTAINS APPROPRIATE CONTROLS. THIS WORK MAY BE SUBCONTRACTED. - SUPERVISES AND IMPLEMENTS GOOD HOUSEKEEPING PRACTICES. - CONDUCTS JOINT REQUIRED INSPECTIONS OF THE SITE WITH INSPECTION STAFF. WHEN CONTRACTOR IS NOT MOBILIZED ON SITE, CONTRACTOR MAY DELEGATE THIS RESPONSIBILITY TO A TRAINED OR CERTIFIED SUBCONTRACTOR. CONTRACTING AUTHORITY ALSO MAY WAIVE JOINT INSPECTION REQUIREMENT DURING WINTER SHUTDOWN. IN BOTH CIRCUMSTANCES, WPCM (OR TRAINED OR CERTIFIED DELEGATE FROM THE CONTRACTOR) IS STILL RESPONSIBLE TO REVIEW AND SIGN INSPECTION REPORTS. - COMPLIES WITH TRAINING AND CERTIFICATION REQUIREMENTS OF SECTION 2602 OF THE STANDARD SPECIFICATIONS. C. SUBCONTRACTORS: - SIGN A CO-PERMITTEE CERTIFICATION STATEMENT ADHERING TO THE REQUIREMENTS OF THE NPDES PERMIT AND THIS PPP IF RESPONSIBLE FOR SEDIMENT OR EROSION CONTROLS OR INVOLVED IN LAND DISTURBING ACTIVITIES. ALL CO-PERMITTEES ARE LEGALLY REQUIRED UNDER THE CLEAN WATER ACT AND THE IOWA ADMINISTRATIVE CODE TO ENSURE COMPLIANCE WITH THE TERMS AND CONDITIONS OF THIS PPP. - IMPLEMENT GOOD HOUSEKEEPING PRACTICES. D. RCE/PROJECT ENGINEER: - IS PROJECT STORM WATER MANAGER. - TAKES ACTIONS NECESSARY TO ENSURE COMPLIANCE WITH STORM WATER REQUIREMENTS INCLUDING, WHERE APPROPRIATE, ISSUING STOP WORK ORDERS, AND DIRECTING ADDITIONAL INSPECTIONS AT CONSTRUCTION PROJECT SITES THAT ARE EXPERIENCING PROBLEMS WITH ACHIEVING PERMIT COMPLIANCE. - ORDERS THE TAKING OF MEASURES TO CEASE, CORRECT, PREVENT, OR MINIMIZE THE CONSEQUENCES OF NON-COMPLIANCE WITH THE STORM WATER REQUIREMENTS OF THE APPLICABLE PERMIT. - SUPERVISES ALL WORK NECESSARY TO MEET STORM WATER REQUIREMENTS AT THE PROJECT, INCLUDING WORK PERFORMED BY CONTRACTORS AND SUBCONTRACTORS. - REQUIRES EMPLOYEES, CONTRACTORS, AND SUBCONTRACTORS TO TAKE APPROPRIATE RESPONSIVE ACTION TO COMPLY WITH STORM WATER REQUIREMENTS, INCLUDING REQUIRING ANY SUCH PERSON TO CEASE OR CORRECT A VIOLATION OF STORM WATER REQUIREMENTS, AND TO ORDER OR RECOMMEND SUCH OTHER ACTIONS AS NECESSARY TO MEET STORM WATER REQUIREMENTS. - IS FAMILIAR WITH THE PROJECT PPP AND STORM WATER SITE MAP. - IS THE POINT OF CONTACT FOR THE PROJECT FOR REGULATORY OFFICIALS, INSPECTOR, CONTRACTORS, AND SUBCONTRACTORS REGARDING STORM WATER REQUIREMENTS. - IS SIGNATURE AUTHORITY ON NOTICE OF DISCONTINUATION. D. INSPECTOR: - UPDATES PPP WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE WHICH HAS A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS FROM THE PROJECT. - MAINTAINS AN UP-TO-DATE RECORD THAT IDENTIFIES CONTRACTORS AND SUBCONTRACTORS AS CO-PERMITTEES. - MAKES THESE PLANS AVAILABLE TO THE DNR UPON THEIR REQUEST. - CONDUCTS JOINT REQUIRED INSPECTIONS OF THE SITE WITH THE CONTRACTOR/SUBCONTRACTOR. - COMPLETES AN INSPECTION REPORT AFTER EACH INSPECTION. - IS SIGNATURE AUTHORITY ON STORM WATER INSPECTION REPORTS. II. PROJECT SITE DESCRIPTION A. THIS POLLUTION PREVENTION PLAN (PPP) IS FOR THE CONSTRUCTION OF 3.5 MILES OF PCC PAVEMENT ON J64 IN FREMONT COUNTY. B. THIS PPP COVERS APPROXIMATELY 47.5 ACRES WITH AN ESTIMATED 11.0 ACRES BEING DISTURBED. THE PORTION OF THE PPP COVERED BY THIS CONTRACT HAS 11.0 ACRES DISTURBED. C. THE PPP IS LOCATED IN AN AREA OF 1 SOIL ASSOCIATIONS (MARSHALL-SHELBY, B-B). THE ESTIMATED WEIGHTED AVERAGE RUNOFF COEFFICIENT NUMBER FOR THIS PPP AFTER COMPLETION WILL BE 0.35. D. STORM WATER SITE MAP – MULTIPLE SOURCES OF INFORMATION COMPRISE THE BASE STORM WATER SITE MAP INCLUDING: - DRAINAGE PATTERNS –PLAN AND PROFILE SHEETS AND SITUATION PLANS. - PROPOSED SLOPES –CROSS SECTIONS. - AREAS OF SOIL DISTURBANCE –CONSTRUCTION LIMITS SHOWN ON PLAN AND PROFILE SHEETS. - LOCATION OF STRUCTURAL CONTROLS –TABULATIONS IN C SHEETS. - LOCATIONS OF NON-STRUCTURAL CONTROLS –TABULATIONS IN C SHEETS. - LOCATIONS OF STABILIZATION PRACTICES –GENERALLY WITHIN CONSTRUCTION LIMITS SHOWN ON PLAN AND PROFILE SHEETS. - SURFACE WATERS (INCLUDING WETLANDS) –PROJECT LOCATION MAP AND PLAN AND PROFILE SHEETS. - LOCATIONS WHERE STORM WATER IS DISCHARGED –PLAN AND PROFILE SHEETS. E. THE BASE STORM WATER SITE MAP IS AMENDED BY CONTRACT MODIFICATIONS AND PROGRESS PAYMENTS (FIELDBOOK ENTRIES) OF COMPLETED EROSION CONTROL WORK. ALSO, DUE TO PROJECT PHASING, EROSION AND SEDIMENT CONTROLS SHOWN ON PROJECT PLANS MAY NOT BE INSTALLED UNTIL NEEDED, BASED ON SITE CONDITIONS. FOR EXAMPLE, SILT FENCE DITCH CHECKS WILL TYPICALLY NOT BE INSTALLED UNTIL THE DITCH HAS BEEN INSTALLED. INSTALLED LOCATIONS MAY ALSO BE MODIFIED FROM TABULATION LOCATIONS BY FIELD STAFF. INSTALLED LOCATIONS WILL BE DOCUMENTED BY FIELDBOOK ENTRIES. F. RUNOFF FROM THIS WORK WILL FLOW INTO ROADWAY DITCHES TO THE NISHNABOTNA RIVER TO THE MISSOURI RIVER. III. CONTROLS A. THE CONTRACTOR'S ECIP SPECIFIED IN ARTICLE 2602.03 OF THE STANDARD SPECIFICATIONS FOR ACCOMPLISHMENT OF STORM WATER CONTROLS SHOULD CLEARLY DESCRIBE THE INTENDED SEQUENCE OF MAJOR ACTIVITIES, AND FOR EACH ACTIVITY DEFINE THE CONTROL MEASURE AND THE TIMING DURING THE CONSTRUCTION PROCESS THAT THE MEASURE WILL BE IMPLEMENTED. B. PRESERVE VEGETATION IN AREAS NOT NEEDED FOR CONSTRUCTION. C. SECTIONS 2601 AND 2602 OF THE STANDARD SPECIFICATIONS DEFINE REQUIREMENTS TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES. ACTUAL QUANTITIES USED AND INSTALLED LOCATIONS MAY VARY FROM THE BASE PPP AND AMENDMENT OF THE PLAN WILL BE DOCUMENTED VIA FIELDBOOK ENTRIES OR BY CONTRACT MODIFICATION. ADDITIONAL EROSION AND SEDIMENT CONTROL ITEMS MAY BE REQUIRED AS DETERMINED BY THE INSPECTOR AND/OR CONTRACTOR DURING STORM WATER MONITORING INSPECTIONS. IF THE WORK INVOLVED IS NOT APPLICABLE TO ANY CONTRACT ITEMS, THE WORK WILL BE PAID FOR ACCORDING TO ARTICLE 1109.03 PARAGRAPH B OF THE STANDARD SPECIFICATIONS. - EROSION AND SEDIMENT CONTROLS - STABILIZATION PRACTICES - SITE PLANS WILL ENSURE THAT EXISTING VEGETATION OR NATURAL BUFFERS ARE PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. - INITIALIZE STABILIZATION OF DISTURBED AREAS IMMEDIATELY AFTER CLEARING, GRADING, EXCAVATING, OR OTHER EARTH DISTURBING ACTIVITIES HAVE: - PERMANENTLY CEASED ON ANY PORTION OF THE SITE, OR - TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. - STAGED PERMANENT AND/OR TEMPORARY STABILIZING SEEDING AND MULCHING SHALL BE COMPLETED AS THE DISTURBED AREAS ARE COMPLETED. INCOMPLETE AREAS SHALL BE STABILIZED ACCORDING TO PARAGRAPH III, C, 1, A, 2, B ABOVE. - PERMANENT AND TEMPORARY STABILIZATION PRACTICES TO BE USED FOR THIS PROJECT ARE LOCATED IN THE ESTIMATED PROJECT QUANTITIES (100-0A, 100-1A, OR 100-1C) AND ESTIMATE REFERENCE INFORMATION (100-4A) LOCATED IN THE C SHEETS. TYPICAL DRAWINGS DETAILING CONSTRUCTION OF THE PRACTICES TO BE USED ON THIS PROJECT ARE REFERENCED IN THE STANDARD ROAD PLANS TABULATION (105-4) IN THE C SHEETS. - PRESERVATION OF EXISTING VEGETATION WITHIN RIGHT-OF-WAY OR EASEMENTS WILL ACT AS VEGETATIVE BUFFER STRIPS. - PRESERVATION OF TOPSOIL: BID ITEMS TO BE USED FOR THIS PROJECT ARE LOCATED IN THE ESTIMATED PROJECT QUANTITIES (100-0A, 100-1A, OR 100-1C) AND ESTIMATE REFERENCE INFORMATION (100-4A) LOCATED IN THE C SHEETS. ADDITIONAL INFORMATION MAY BE FOUND IN TABULATIONS IN THE C OR T SHEETS OR IS REFERENCED IN SECTION 2105 OF STANDARD SPECIFICATIONS. - STRUCTURAL PRACTICES - STRUCTURAL PRACTICES WILL BE IMPLEMENTED TO DIVERT FLOWS FROM EXPOSED SOILS AND DETAIN OR OTHERWISE LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. ADDITIONALLY, STRUCTURAL PRACTICES MAY INCLUDE: SILT BASINS THAT							

PROVIDE 3600 CUBIC FEET OF STORAGE PER ACRE DRAINED OR EQUIVALENT SEDIMENT CONTROLS, OUTLET STRUCTURES THAT WITHDRAW WATER FROM SURFACE WHEN DISCHARGING BASINS, AND CONTROLS TO DIRECT STORM WATER TO VEGETATED AREAS.

2). STRUCTURAL PRACTICES TO BE USED FOR THIS PROJECT ARE LOCATED IN THE ESTIMATED PROJECT QUANTITIES (100-0A, 100-1A, OR 100-1C) AND ESTIMATE REFERENCE INFORMATION (100-4A) LOCATED IN THE C SHEETS, AS WELL AS ALL OTHER ITEM SPECIFIC TABULATIONS. TYPICAL DRAWINGS DETAILING CONSTRUCTION OF THE DEVICES TO BE USED ON THIS PROJECT CAN BE FOUND IN THE B SHEETS OR ARE REFERENCED IN THE STANDARD ROAD PLANS TABULATION (105-4) LOCATED IN THE C SHEETS.

c. STORM WATER MANAGEMENT

MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER DISCHARGES THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED. THIS MAY INCLUDE VELOCITY DISSIPATION DEVICES AT DISCHARGE LOCATIONS AND ALONG LENGTH OF OUTFALL CHANNEL AS NECESSARY TO PROVIDE A NON-EROSION VELOCITY FLOW FROM STRUCTURE TO WATER IF INCLUDED WITH THIS PROJECT, THESE ITEMS ARE LOCATED IN THE ESTIMATED PROJECT QUANTITIES (100-0A, 100-1A, OR 100-1C) AND ESTIMATE REFERENCE INFORMATION (100-4A) LOCATED IN THE C SHEETS, AS WELL AS ALL OTHER ITEM SPECIFIC TABULATIONS. TYPICAL DRAWINGS DETAILING CONSTRUCTION OF THE PRACTICES TO BE USED ON THIS PROJECT ARE REFERENCED IN THE STANDARD ROAD PLANS TABULATION (105-4) IN THE C SHEETS. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CLEAN WATER ACT.

2. OTHER CONTROLS

CONTRACTOR DISPOSAL OF UNUSED CONSTRUCTION MATERIALS AND CONSTRUCTION MATERIAL WASTES SHALL COMPLY WITH APPLICABLE STATE AND LOCAL WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC SYSTEM REGULATIONS. IN THE EVENT OF A CONFLICT WITH OTHER GOVERNMENTAL LAWS, RULES AND REGULATIONS, THE MORE RESTRICTIVE APPLICABLE LAWS, RULES OR REGULATIONS SHALL APPLY.

a. VEHICLE ENTRANCES AND EXITS – CONSTRUCT AND MAINTAIN ENTRANCES AND EXITS TO PREVENT TRACKING OF SEDIMENTS ONTO ROADWAYS.

b. MATERIAL DELIVERY, STORAGE AND USE – IMPLEMENT PRACTICES TO PREVENT DISCHARGE OF CONSTRUCTION MATERIALS DURING DELIVERY, STORAGE, AND USE.

c. STOCKPILE MANAGEMENT – INSTALL CONTROLS TO REDUCE OR ELIMINATE POLLUTION OF STORM WATER FROM STOCKPILES OF SOIL AND PAVING.

d. WASTE DISPOSAL – DO NOT DISCHARGE ANY MATERIALS, INCLUDING BUILDING MATERIALS, INTO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

e. SPILL PREVENTION AND CONTROL – IMPLEMENT CHEMICAL SPILL AND LEAK PREVENTION AND RESPONSE PROCEDURES TO CONTAIN AND CLEAN-UP SPILLS AND PREVENT MATERIAL DISCHARGES TO THE STORM DRAIN SYSTEM AND WATERS OF THE STATE.

f. CONCRETE RESIDUALS AND WASHOUT WASTES – WASTE SHALL NOT BE DISCHARGED TO A SURFACE WATER AND IS NOT ALLOWED TO ADVERSELY AFFECT A WATER OF THE STATE. DESIGNATE TEMPORARY CONCRETE WASHOUT FACILITIES FOR RINSING OUT CONCRETE TRUCKS. PROVIDE DIRECTIONS TO TRUCK DRIVERS WHERE DESIGNATED WASHOUT FACILITIES ARE LOCATED. DESIGNATED WASHOUT AREAS SHOULD BE LOCATED AT LEAST 50 FEET AWAY FROM STORM DRAINS, STREAMS OR OTHER WATER BODIES. CARE SHOULD BE TAKEN TO ENSURE THESE FACILITIES DO NOT OVERFLOW DURING STORM EVENTS.

g. CONCRETE GROOVING/GRINDING SLURRY –DO NOT DISCHARGE SLURRY TO A WATERBODY OR STORM DRAIN. SLURRY MAY BE APPLIED ON FORESLOPES OR REMOVED FROM THE PROJECT.

h. VEHICLE AND EQUIPMENT STORAGE AND MAINTENANCE AREAS – PERFORM ON SITE FUELING AND MAINTENANCE IN ACCORDANCE WITH ALL ENVIRONMENT LAWS SUCH AS PROPER STORAGE OF ONSITE FUELS AND PROPER DISPOSAL OF USED ENGINE OIL OR OTHER FLUIDS ON SITE.EMPLOY WASHING PRACTICES THAT PREVENT CONTAMINATION OF SURFACE AND GROUND WATER FROM WASH WATER. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.

i. LITTER MANAGEMENT – ENSURE EMPLOYEES PROPERLY DISPOSE OF LITTER. MINIMIZE EXPOSURE OF TRASH IF EXPOSURE TO PRECIPITATION OR STORM WATER WOULD RESULT IN A DISCHARGE OF POLLUTANTS.

j. DEWATERING ?PROPERLY TREAT WATER TO REMOVE SUSPENDED SEDIMENT BEFORE IT RE-ENTERS A WATERBODY OR DISCHARGES OFF-SITE. MEASURES ARE ALSO TO BE TAKEN TO PREVENT SCOUR EROSION AT DEWATERING DISCHARGE POINT.

3. APPROVED STATE OR LOCAL PLANS

DURING THE COURSE OF THIS CONSTRUCTION, IT IS POSSIBLE THAT SITUATIONS WILL ARISE WHERE UNKNOWN MATERIALS WILL BE ENCOUNTERED. WHEN SUCH SITUATIONS ARE ENCOUNTERED, THEY WILL BE HANDLED ACCORDING TO ALL FEDERAL, STATE, AND LOCAL REGULATIONS IN EFFECT AT THE TIME.

IV. MAINTENANCE PROCEDURES

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

V. INSPECTION REQUIREMENTS

A. INSPECTIONS SHALL BE MADE JOINTLY BY THE CONTRACTOR AND THE CONTRACTING AUTHORITY AT LEAST ONCE EVERY SEVEN CALENDAR DAYS. STORM WATER MONITORING INSPECTIONS WILL INCLUDE:

- DATE OF THE INSPECTION.
- SUMMARY OF THE SCOPE OF THE INSPECTION.
- NAME AND QUALIFICATIONS OF THE PERSONNEL MAKING THE INSPECTION.
- REVIEW OF EROSION AND SEDIMENT CONTROL MEASURES WITHIN DISTURBED AREAS FOR THE EFFECTIVENESS IN PREVENTING IMPACTS TO RECEIVING WATERS.
- MAJOR OBSERVATIONS RELATED TO THE IMPLEMENTATION OF THE PPP.
- IDENTIFICATION OF CORRECTIVE ACTIONS REQUIRED TO MAINTAIN OR MODIFY EROSION AND SEDIMENT CONTROL MEASURES.

B. INCLUDE STORM WATER MONITORING INSPECTION REPORTS IN THE AMENDED PPP. INCORPORATE ANY ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES DETERMINED AS A RESULT OF THE INSPECTION. IMMEDIATELY BEGIN CORRECTIVE ACTIONS ON ALL DEFICIENCIES FOUND WITHIN 3 CALENDAR DAYS OF THE INSPECTION AND COMPLETE WITHIN 7 CALENDAR DAYS FOLLOWING THE INSPECTION. IF IT IS DETERMINED THAT MAKING THE CORRECTIONS LESS THAN 72 HOURS AFTER THE INSPECTION IS IMPRACTICABLE, IT SHOULD BE DOCUMENTED WHY IT IS IMPRACTICABLE AND INDICATE AN ESTIMATED DATE BY WHICH THE CORRECTIONS WILL BE MADE.

VI. NON-STORM WATER DISCHARGES

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

VII. POTENTIAL SOURCES OF OFF RIGHT-OF-WAY (ROW) POLLUTION

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

VIII. DEFINITIONS

A. BASE PPP – INITIAL POLLUTION PREVENTION PLAN.

B. AMENDED PPP – MAY INCLUDE PLAN REVISIONS OR CONTRACT MODIFICATIONS FOR NEW ITEMS, STORM WATER MONITORING INSPECTION REPORTS, AND FIELDBOOK ENTRIES MADE BY THE INSPECTOR.

C. IDR – INSPECTOR'S DAILY REPORT ? THIS CONTAINS THE INSPECTOR'S DAILY DIARY AND BID ITEM POSTINGS.

D. CONTROLS – METHODS, PRACTICES, OR MEASURES TO MINIMIZE OR PREVENT EROSION, CONTROL SEDIMENTATION, CONTROL STORM WATER, OR MINIMIZE CONTAMINANTS FROM OTHER TYPES OF WASTE OR MATERIALS. ALSO CALLED BEST MANAGEMENT PRACTICES (BMPs).

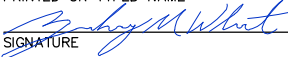
E. SIGNATURE AUTHORITY – REPRESENTATIVE AUTHORIZED TO SIGN VARIOUS STORM WATER DOCUMENTS.

CERTIFICATION STATEMENT

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

SIGNATURE

PRINTED OR TYPED NAME



SIGNATURE

ZACHARY M. WHEAT

PRINTED OR TYPED NAME

SURVEY SYMBOL AND LINEWORK LEGEND

-----	RIGHT-OF-WAY
HMA	HOT MIX ASPHALT
EOR	END OF RETURN
BOC	BACK OF CURB
PCC	PORTLAND CEMENT CONCRETE
POB	POINT OF BEGINNING
UAC	USE AS CONSTRUCTED
□	MAILBOX
○	POST ROUND
□	POST SQUARE
□SIGN	STREET SIGN
FO	FIBER OPTIC CABLE
OH	OVERHEAD ELECTRIC CABLE
□EB	ELECTRICAL PULL BOX
○TP	ELECTRICAL TRANSFORMER
⚡	POWER POLE
STM	STORM SEWER

UTILITIES LEGEND

-----OH-----	OVERHEAD POWER
-----OPTIC-----	FIBER OPTIC

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK



Existing Topographic Features and Labels
Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation

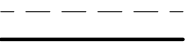
SHADING



Proposed Pavement Shading
Proposed Granular Shading

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK



Existing Ground Line Profile
Proposed Profile and Annotation

UTILITIES CONTACTS

CENTURYLINK
CONTACT NAME : SADIE HULL
CONTACT PHONE: (918)547-0147
CONTACT EMAIL: SADIE.HULL@LUMEN.COM

ATCHISON HOLT ELECTRIC
CONTACT NAME: HAROLD GAYLER
CONTACT PHONE: (660)744-5344
CONTACT EMAIL: UNGSMICHAELJ@TCI.COM

MIDAMERICAN - ELECTRICAL
CONTACT NAME : DAVID FITCH
CONTACT PHONE: (712)366-5669
CONTACT EMAIL: DLFITCH@MIDAMERICAN.COM

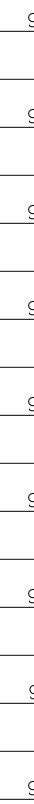
MIDWEST DATA CENTER
CONTACT NAME: JEREMY DAVIS
CONTACT PHONE: (660)744-4498
CONTACT EMAIL: JDAVIS@RPTELEPHONE.COM

PRAIRIE TELEPHONE COMPANY
CONTACT NAME : MIKE LUDWIG
CONTACT PHONE: (712)673-2311
CONTACT EMAIL: MLUDWIG@WESTIANET.COM

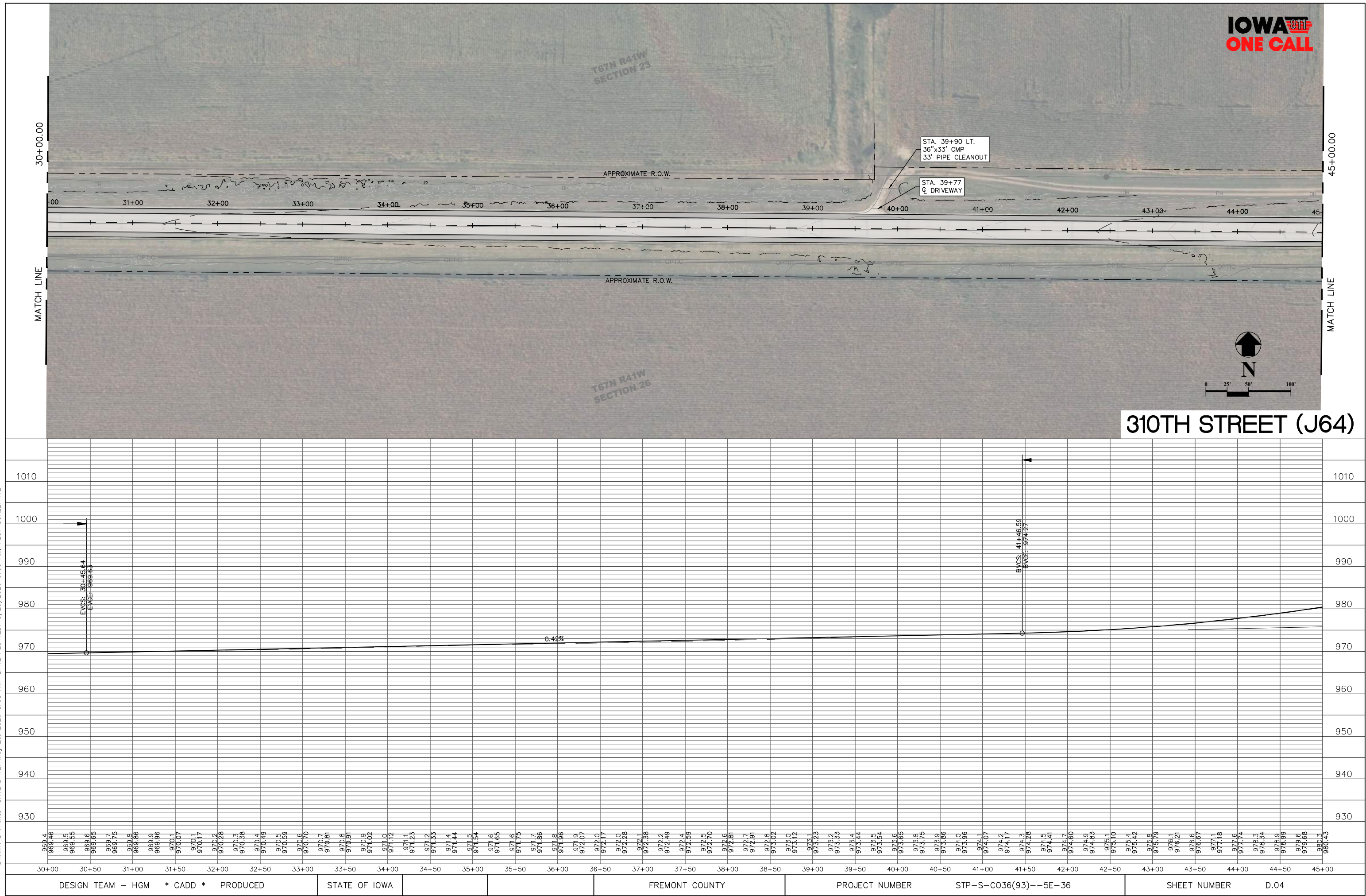
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DRAWN BY: Jns, SAVE DATE: Jul 1, 2026 9:10 AM DATE PLOTTED: 7/1/2026 1:43 PM, PLOT SCALE: 1:2



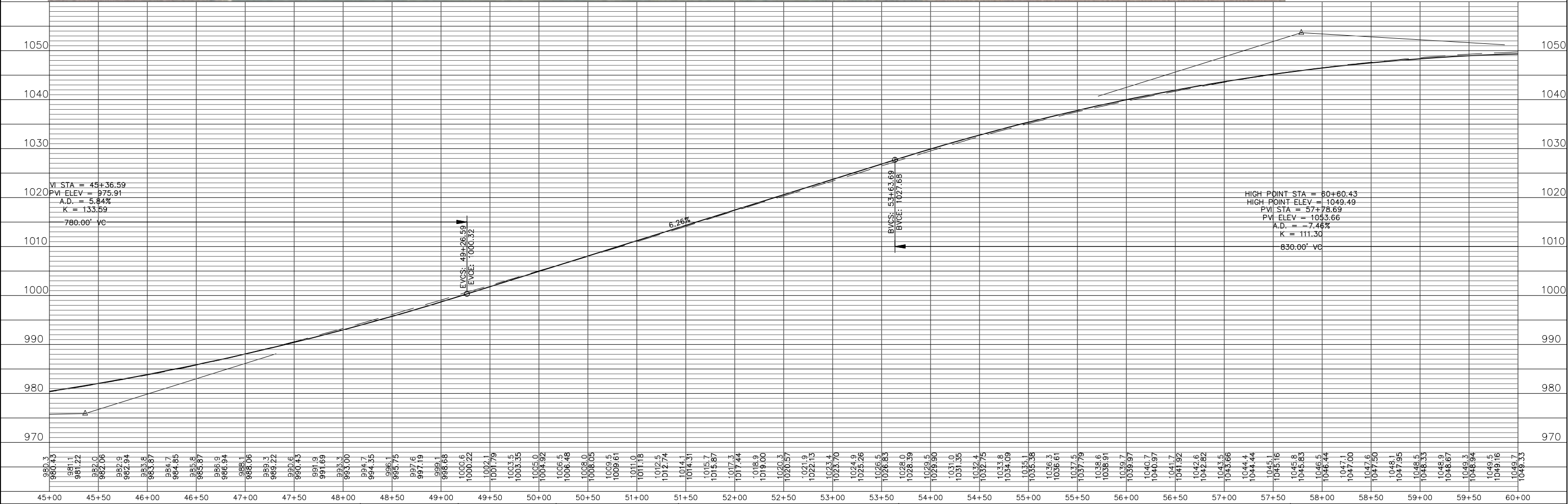
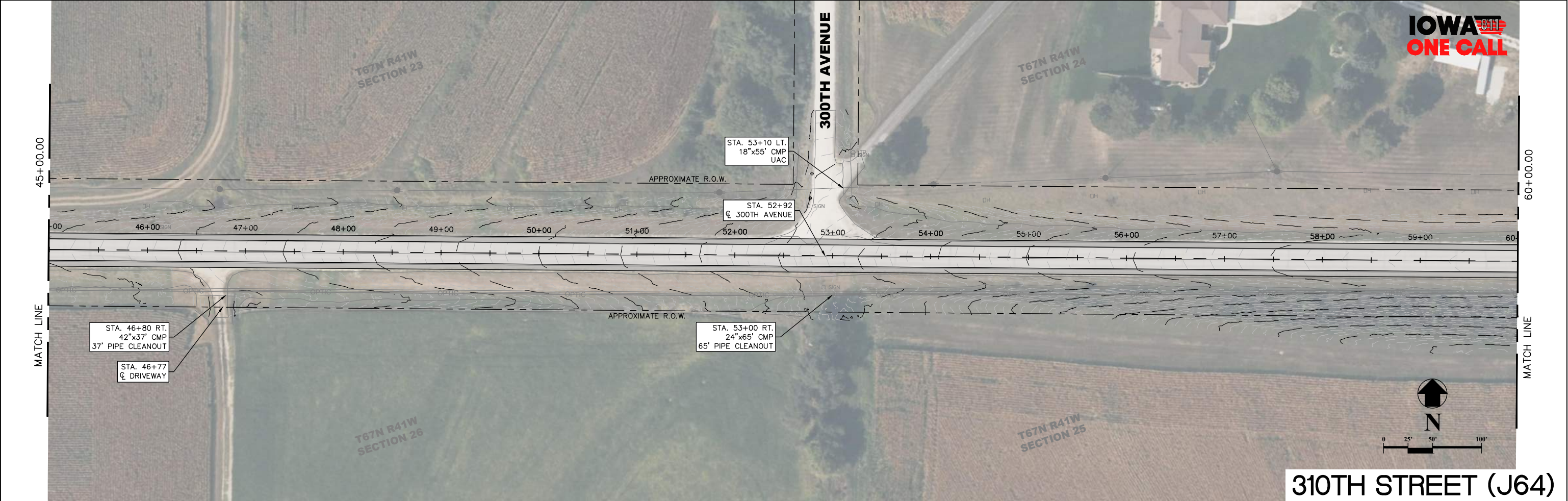
A horizontal graphic scale bar with four vertical tick marks. Above the first tick mark is the number '0'. Above the second tick mark is '25\''. Above the third tick mark is '50\''. Above the fourth tick mark is '100\''. The bar is divided into three equal segments by the intermediate tick marks.





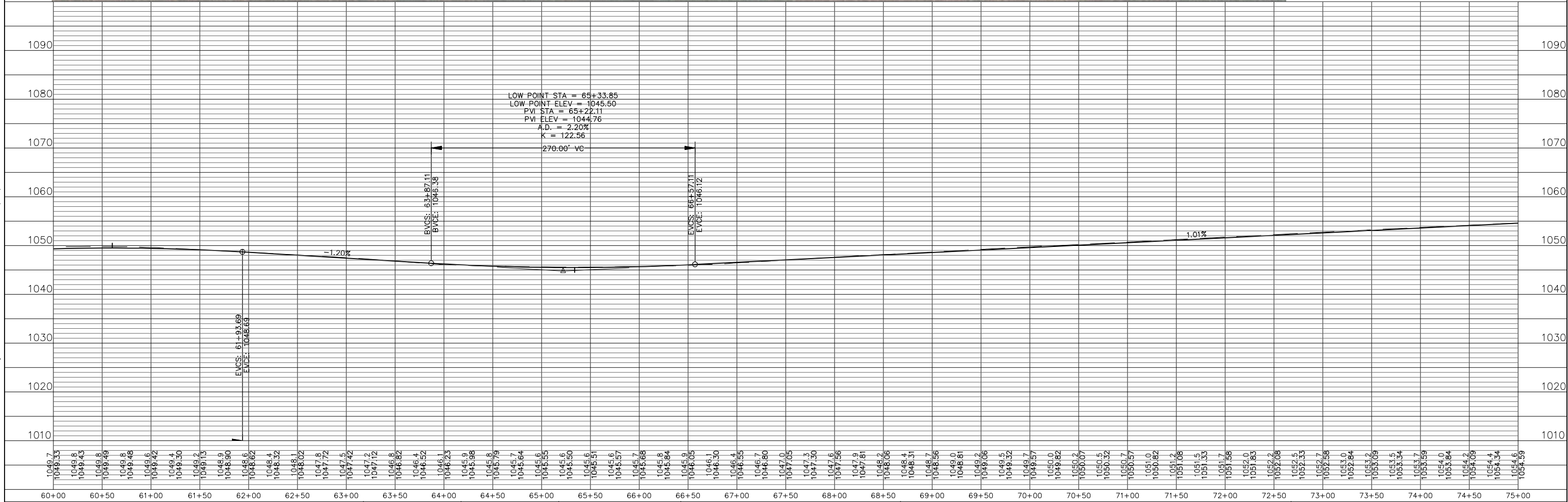


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DESIGN TEAM -- HGM	* CADD *	PRODUCED	STATE OF IOWA		FREMONT COUNTY	PROJECT NUMBER	STP-S-C036(93)--5E-36	SHEET NUMBER	D.05
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DESIGN TEAM -- HGM * CADD * PRODUCED

STATE OF IOWA

FREMONT COUNTY

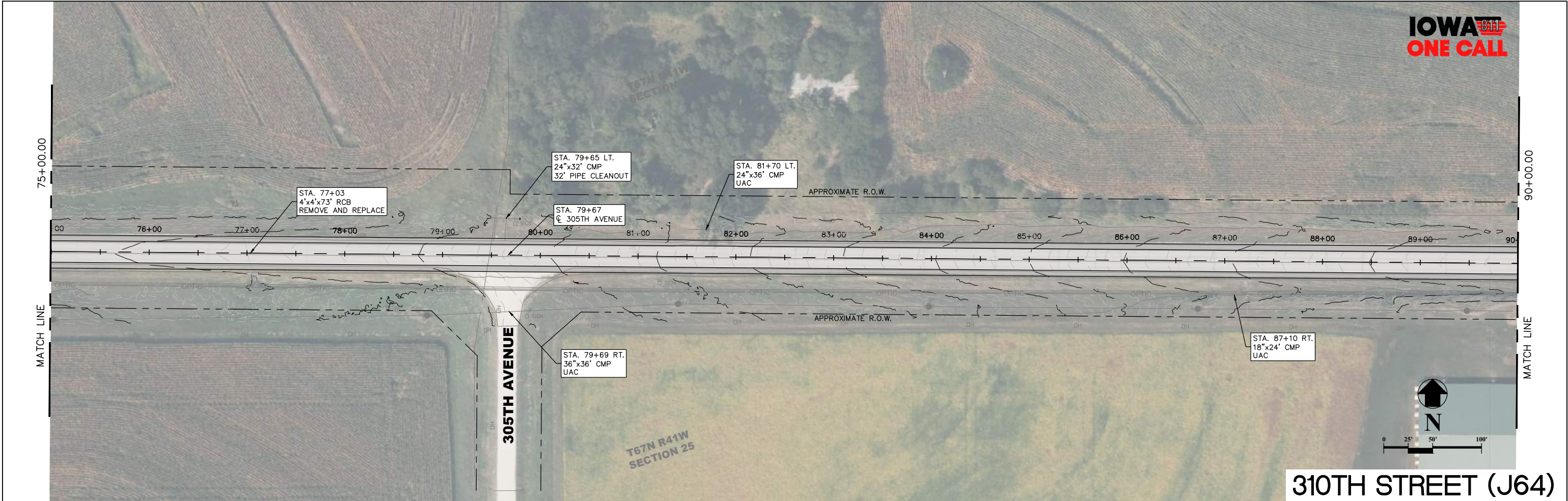
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STP-S-CO36(93)--5E-36

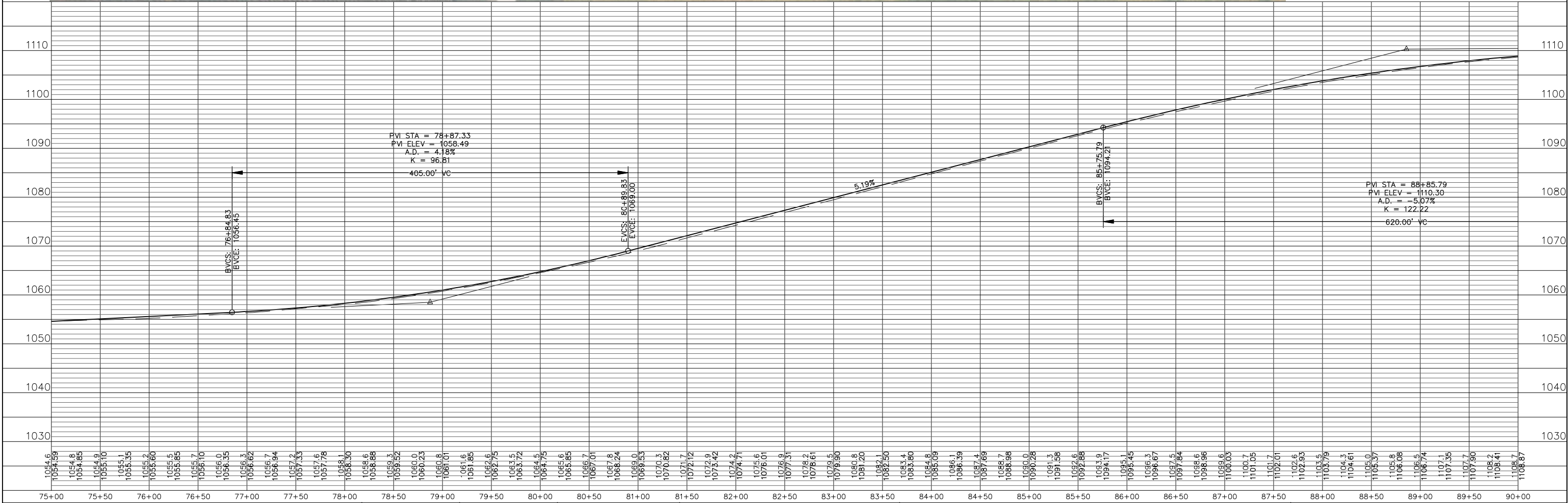
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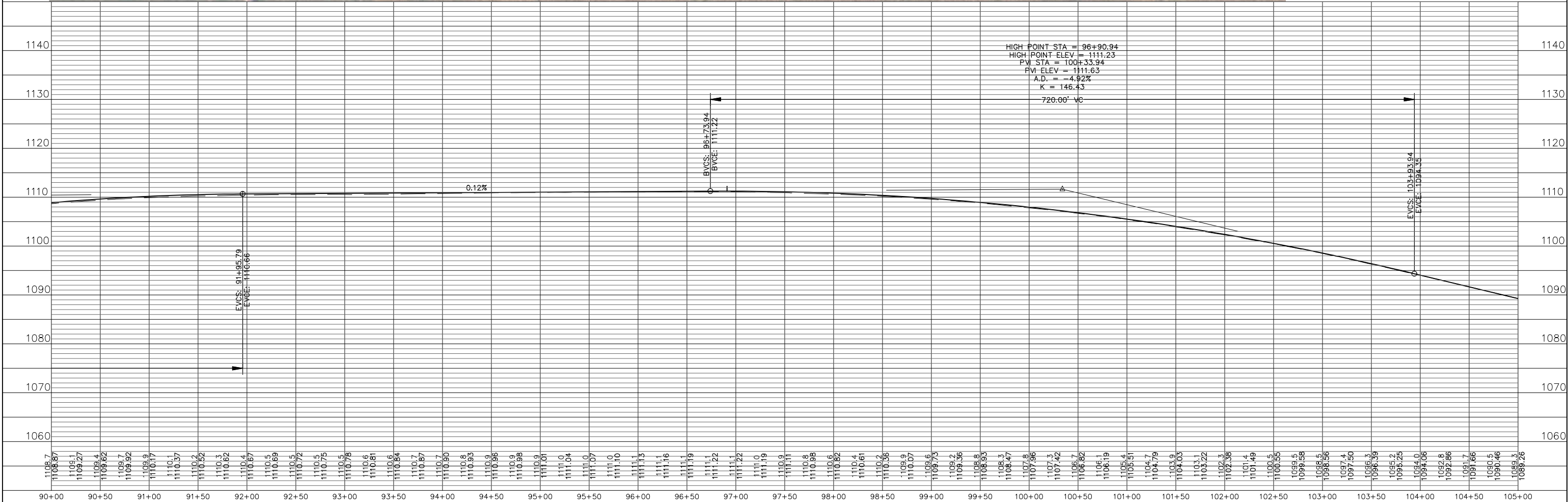
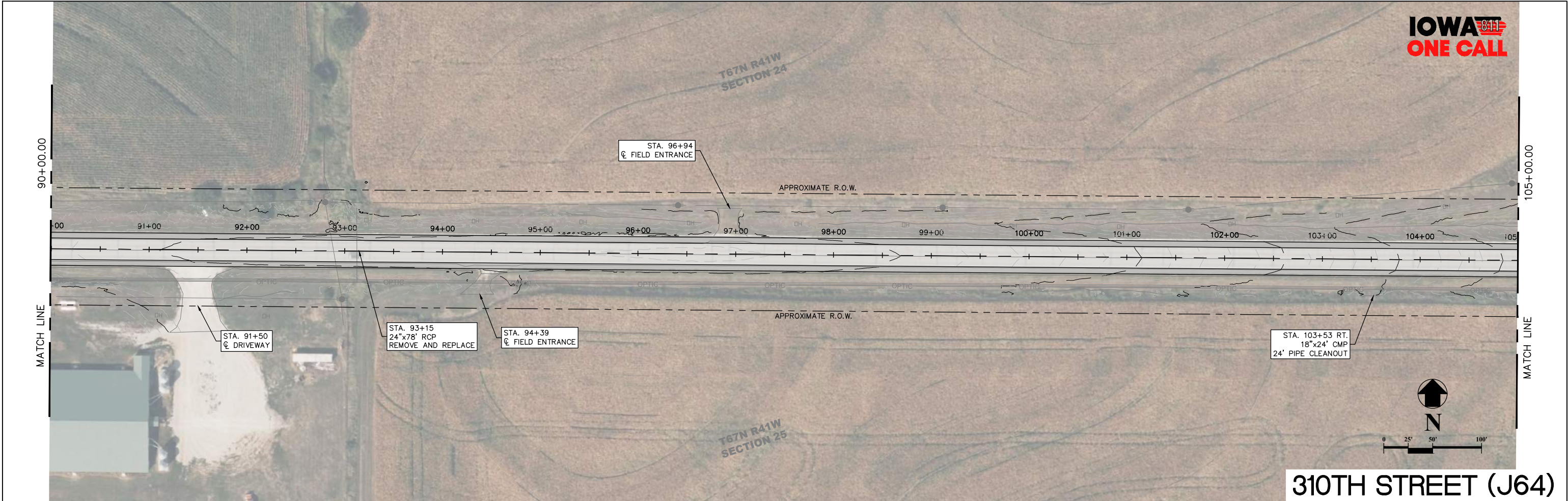
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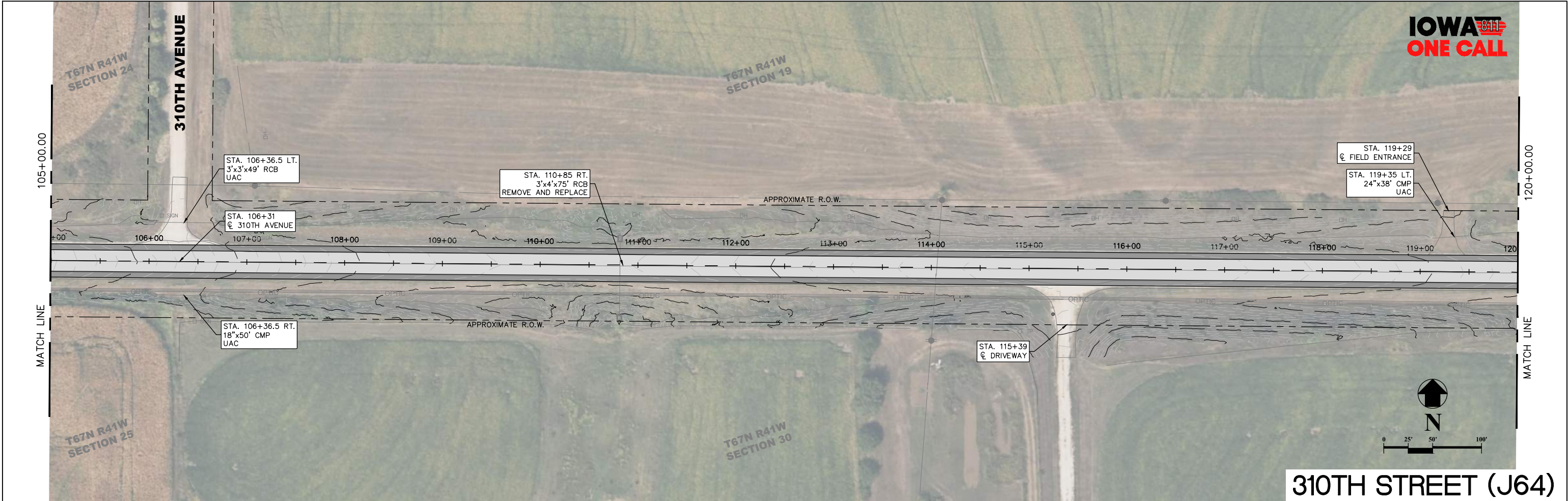
310TH STREET (J64)



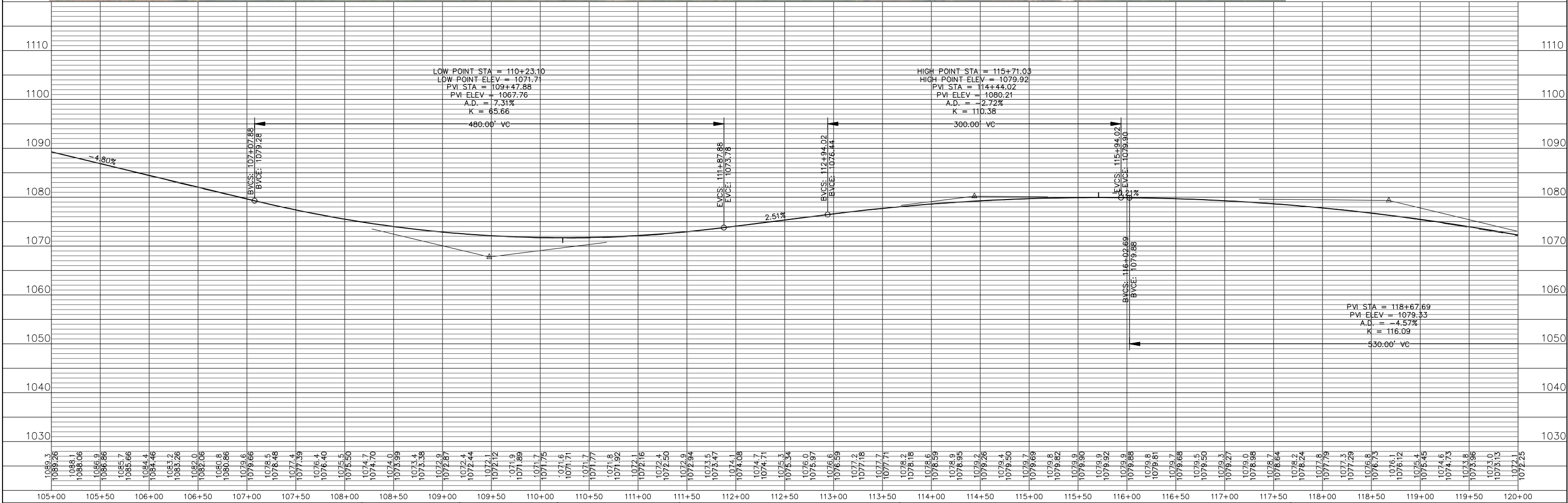
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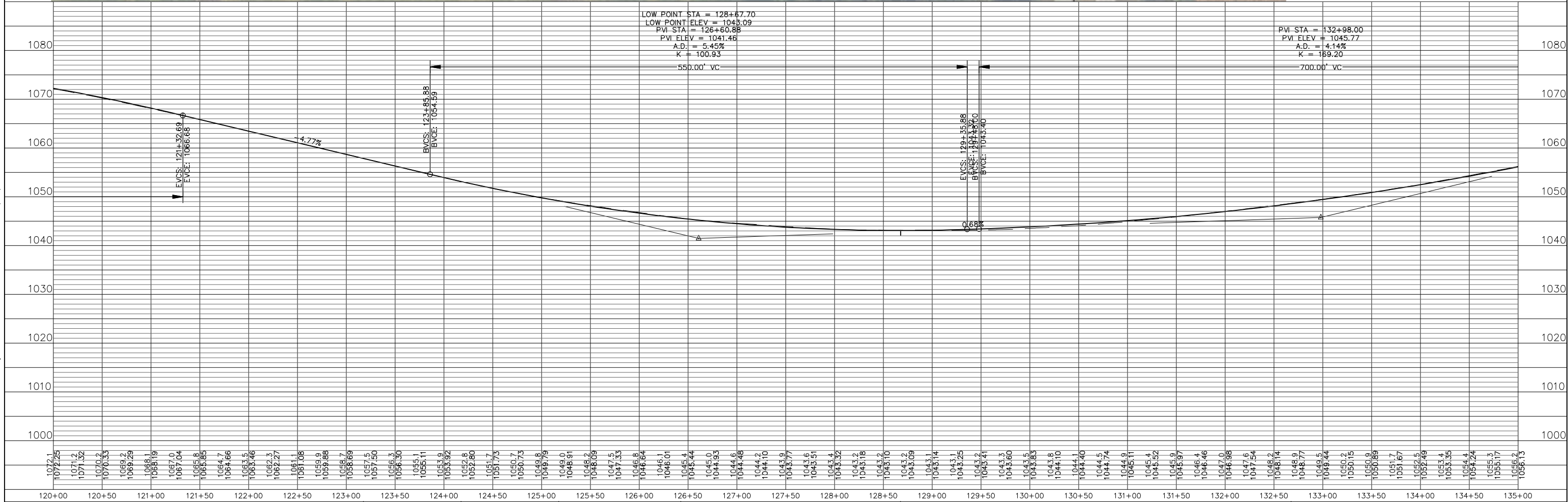
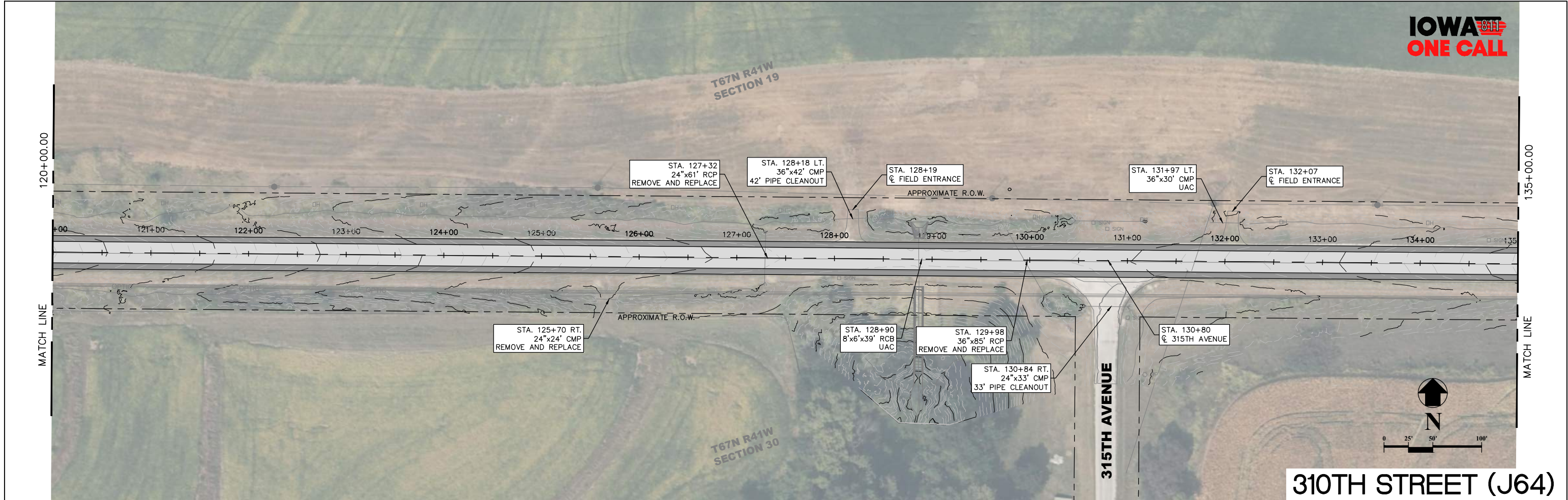
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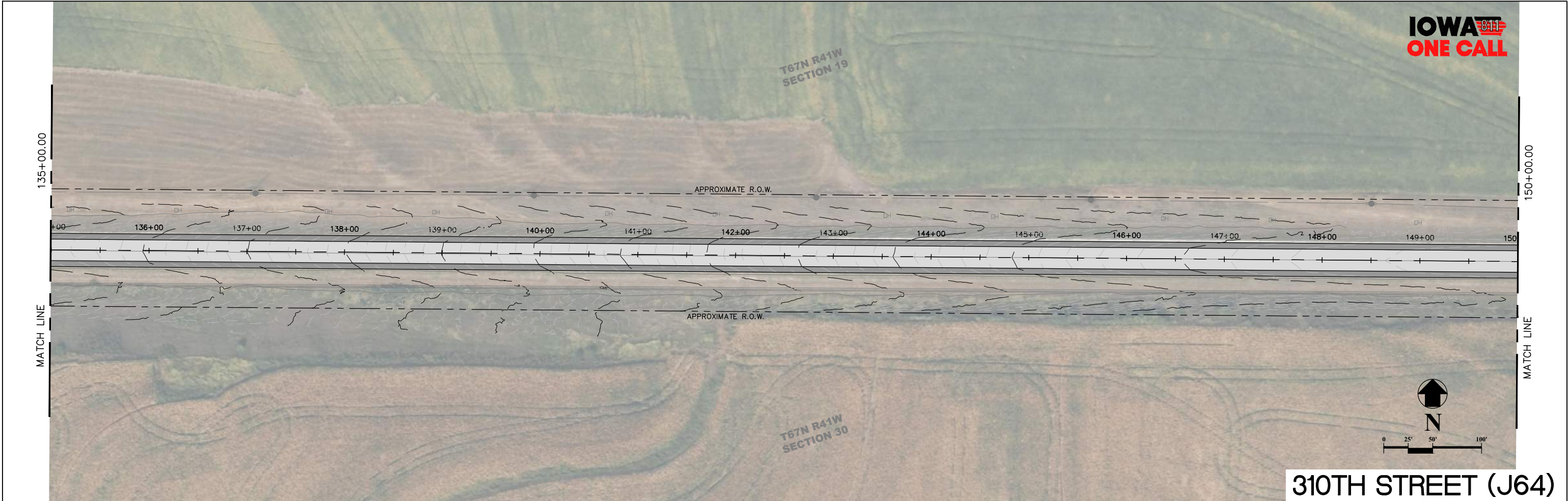
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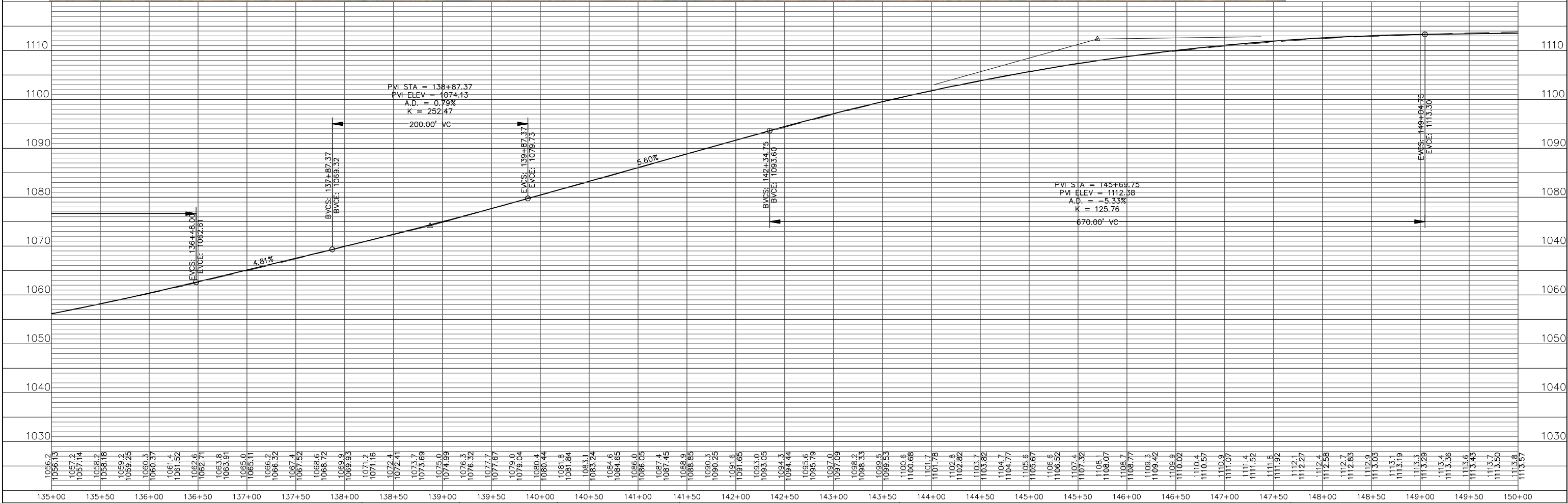
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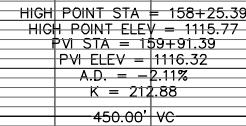
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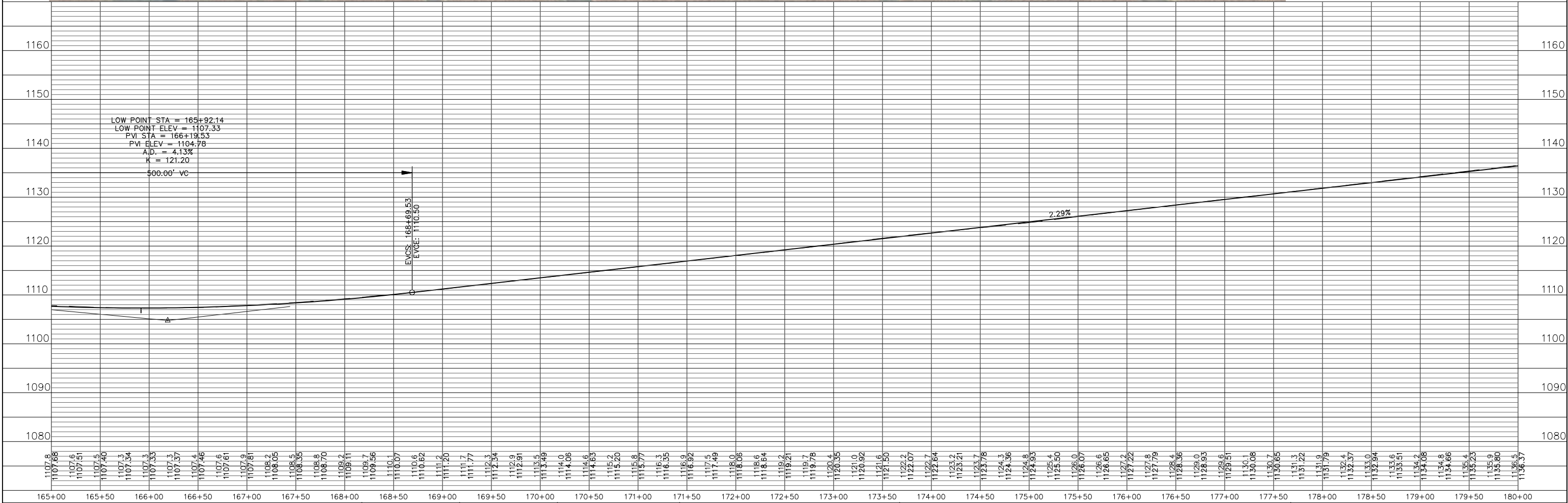
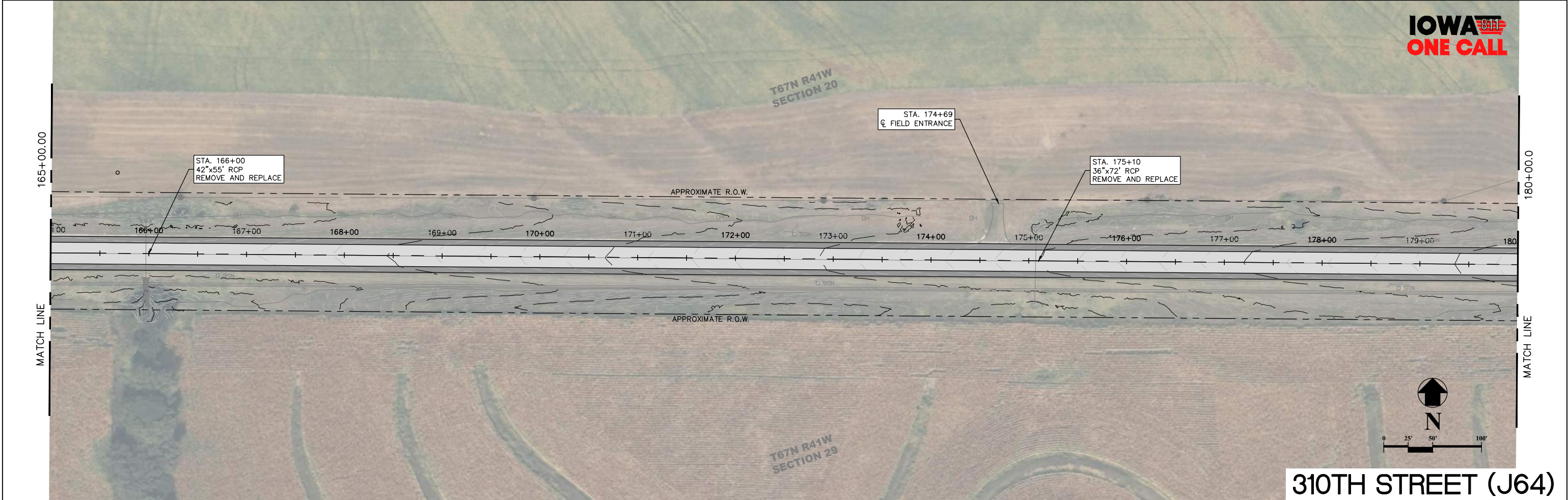
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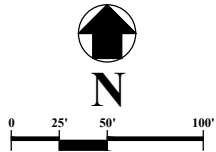
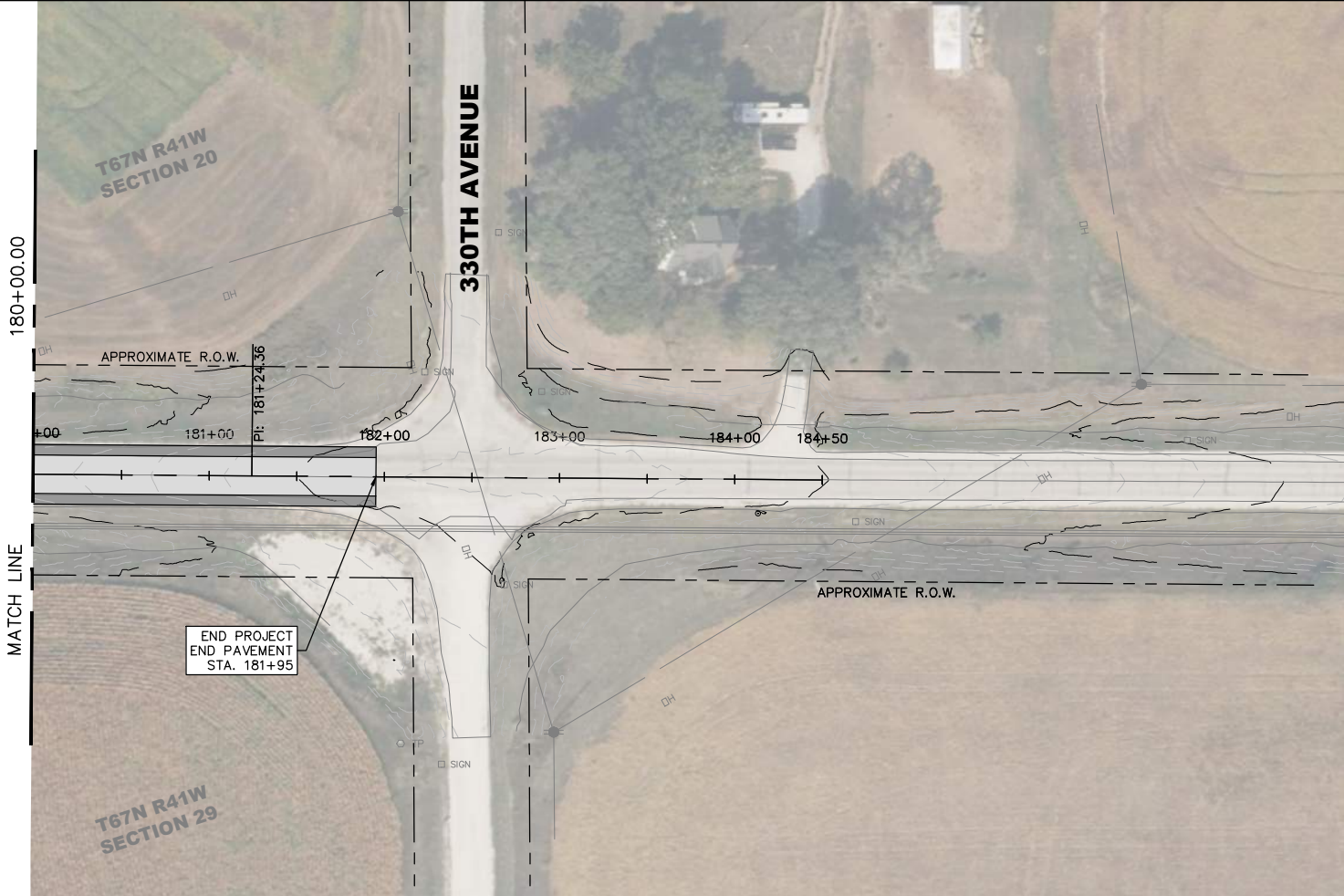
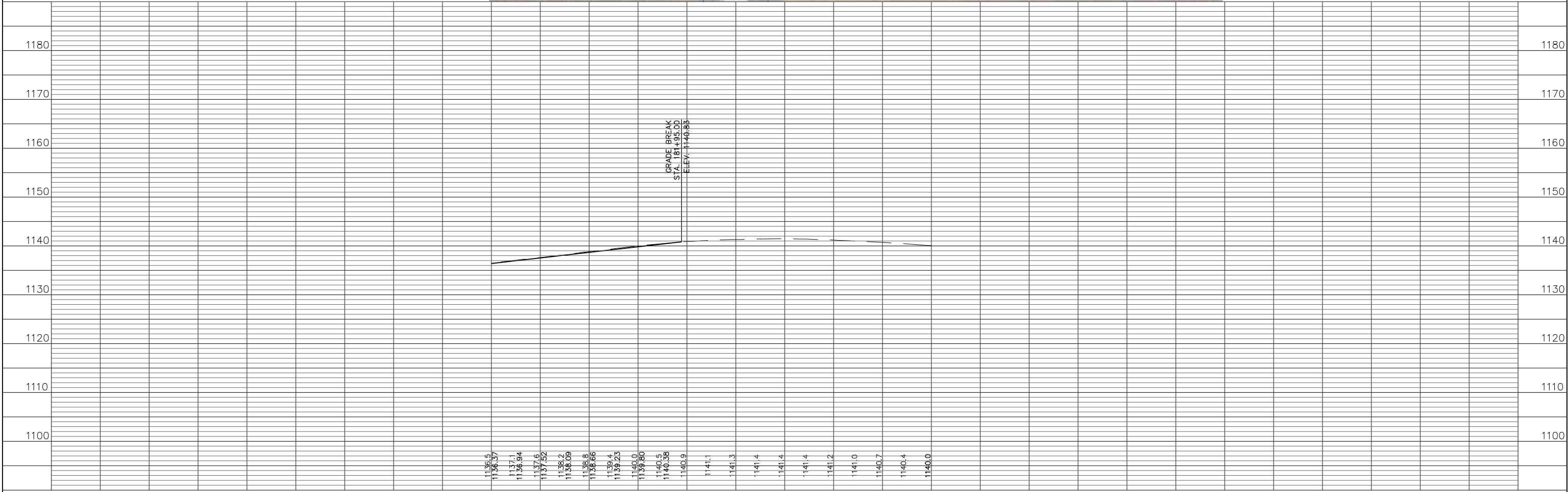
DESIGN TEAM -- HGM * CADD * PRODUCED	STATE OF IOWA	FREMONT COUNTY	PROJECT NUMBER	STP-S-CO36(93)--5E-36	SHEET NUMBER	D.11
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310TH STREET (J64)



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DRAWN BY: Jns, SAVE DATE: Jul 1, 2026 9:10 AM DATE PLOTTED: 7/1/2026 1:43 PM, PLOT SCALE: 1:2

ALIGNMENT COORDINATES																				101-16 10-25-24	
Line No.	Name	Location	Point on Tangent Station	Point on Tangent Y Northing	Point on Tangent X Easting	Begin Spiral Station	Begin Spiral Y Northing	Begin Spiral X Easting	Begin Curve Station	Begin Curve Y Northing	Begin Curve X Easting	Simple Curve PI or Master PI Station	Simple Curve PI or Master PI Y Northing	Simple Curve PI or Master 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	
1.	J64/310TH ST		0+00.00	6727557.897	16526028.01																
2.	J64/310TH ST		181+24.355	6727412.2	16544151.77																
3.	J64/310TH ST		184+50.000	6727409.904	16544477.41																

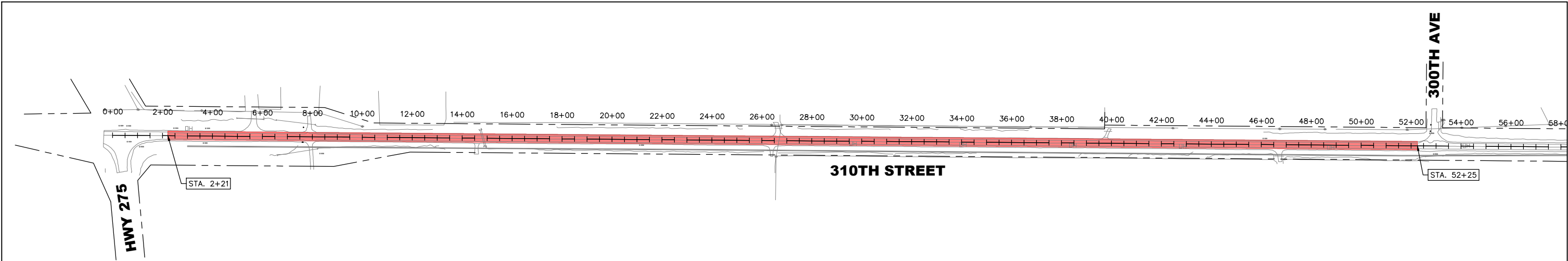
CONTROL POINTS AND BENCHMARK				
CONTROL POINT	NORTHING	EASTING	ELEVATION	LOCATION
C.P. #1	6727348.15	16544179.22	1135.64	5/8" REBAR IN GRAVEL AREA AT SOUTHWEST CORNER OF 310TH STREET AND 330TH AVENUE
C.P. #2	6727327.78	16557568.17	1111.32	5/8" REBAR IN GRAVEL AREA AT NORTHEAST CORNER OF 310TH STREET AND 350TH AVENUE
C.P. #3	6727527.65	16532107.19	1048.82	5/8" REBAR LOCATED IN THE NORTH SHOULDER OF 310TH STREET BETWEEN 300TH AVENUE AND 305TH AVENUE
BENCHMARK 1483 ERA			1081.00	LOCATED IN T67N R41W, NEAR THE NORTH 1/4 CORNER OF SECTION 32. ABOUT 4.5 MI (7.2 KM) EAST-SOUTHEAST OF HAMBURG, IA AND 7.4 MI (11.9 KM) NORTH OF WATSON, MO. IT IS 36 FT (11.0 M) EAST OF THE CENTER OF MISSOURI ROUTE C C, 93 FT (28.3 M) SOUTH OF THE CENTER OF 100TH STREET (322ND STREET IA),AND 1.1 FT (0.3 M) SOUTH OF A CARSONITE WITNESS POST

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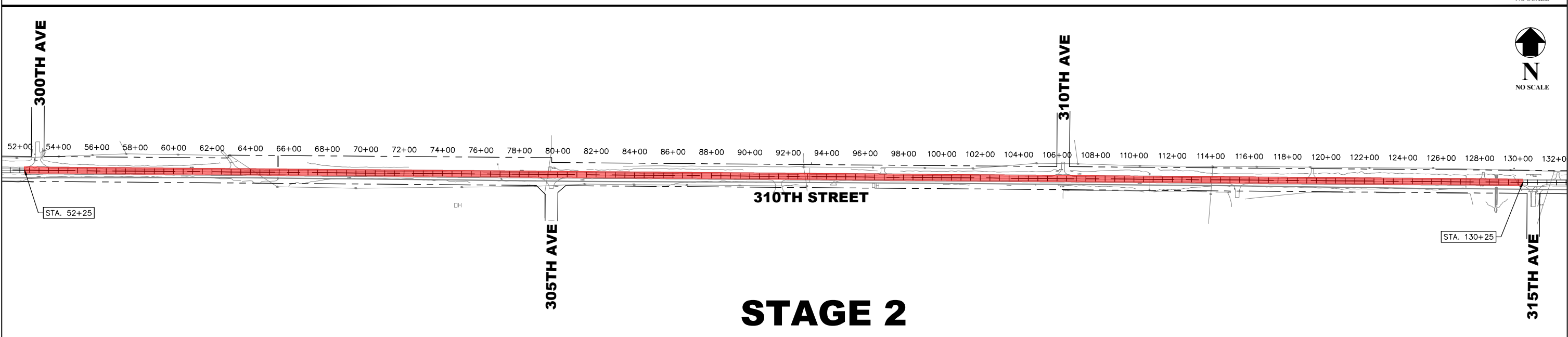
TRAFFIC CONTROL PLAN		108-23A
		08-15-22
COUNTY ROAD J-64 WILL BE CLOSED TO THROUGH TRAFFIC DURING CONSTRUCTION. LOCAL TRAFFIC TO ADJACENT PROPERTIES WILL BE MAINTAINED AS PROVIDED FOR IN ARTICLE 1107.08 OF THE CURRENT STANDARD SPECIFICATIONS. TRAFFIC CONTROL DEVICES, PROCEDURES, LAYOUTS, SIGNING, AND PAVEMENT MARKINGS INSTALLED WITHIN THE LIMITS OF THE PROJECT SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FRO STREETS AND HIGHWAYS" AS ADOPTED BY THE DEPARTMENT PER 761 OF THE IOWA ADMINISTRATIVE CODE (IAC) CHAPTER 130. A DETOUR ROUT WILL BE MARKED AND MAINTAINED BY FREMONT COUNTY. ALL SAFETY CLOSURES SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR. MAINTENANCE OF SIGNS, BARRICADES, AND SAFETY CLOSURES AS STATED IN ARTICLE 1107.09 SHALL APPLY ON THIS PROJECT. ROAD CLOSURES ON THIS PROJECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE IN ACCORDANCE WITH ROAD STANDARD TC-252. CONSTRUCTION STAGING WILL BE REQUIRED TO MAINTAIN ACCESS TO PROPERTY OWNERS.		

STAGING NOTES		108-26A
		08-15-22
WORK SHALL BE CONSTRUCTED IN 3 STAGES. STAGE 1 — HIGHWAY 275 TO 300TH AVE STAGE 2 — 300TH AVE TO 315TH AVE. STAGE 3 — 315TH AVE TO 330TH AVE. WORK WITHIN EACH STAGE SHALL MAINTAIN ACCESS TO PROPERTY OWNERS. WORK WITHIN EACH STAGE SHALL BE COMPLETED IN FULL PRIOR TO BEGINNING THE NEXT STAGE.		

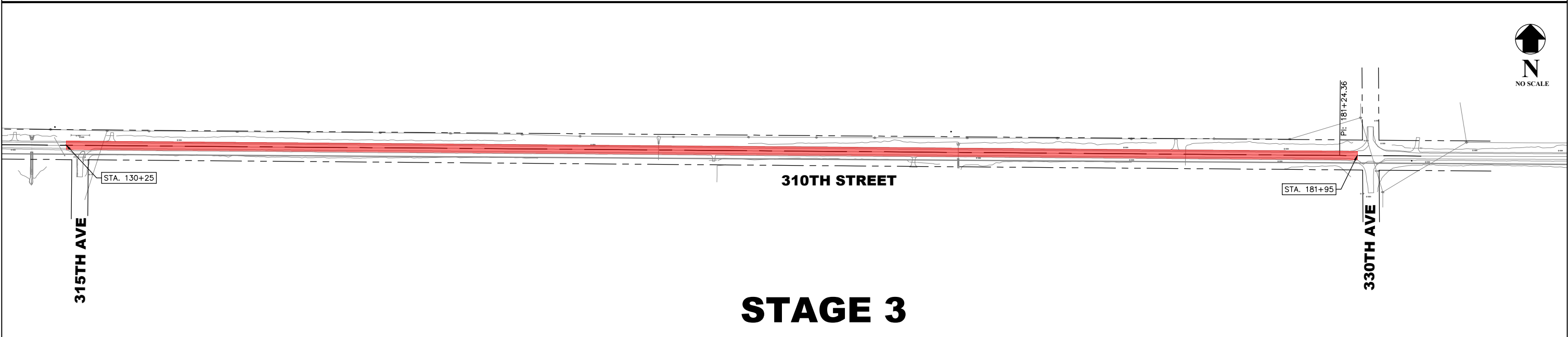
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STAGE 1



STAGE 2

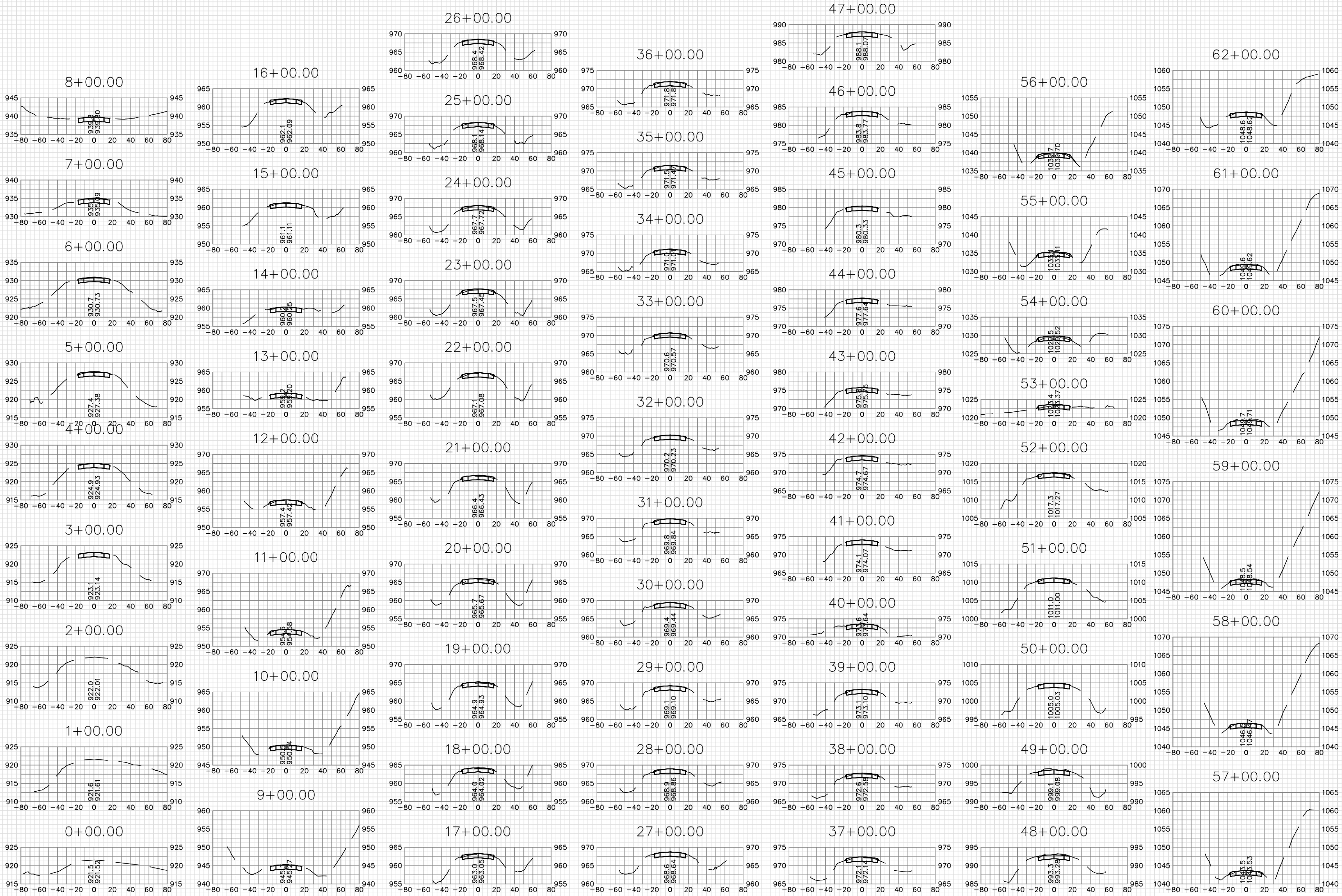


STAGE 3



DESIGN TEAM — HGM	* CADD *	PRODUCED	STATE OF IOWA		FREMONT COUNTY	PROJECT NUMBER	STP-S-C036(93)--5E-36	SHEET NUMBER	J.02
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J64/310TH STREET

DESIGN TEAM — HGM * CADD * PRODUCED

STATE OF IOWA

FREMONT COUNTY

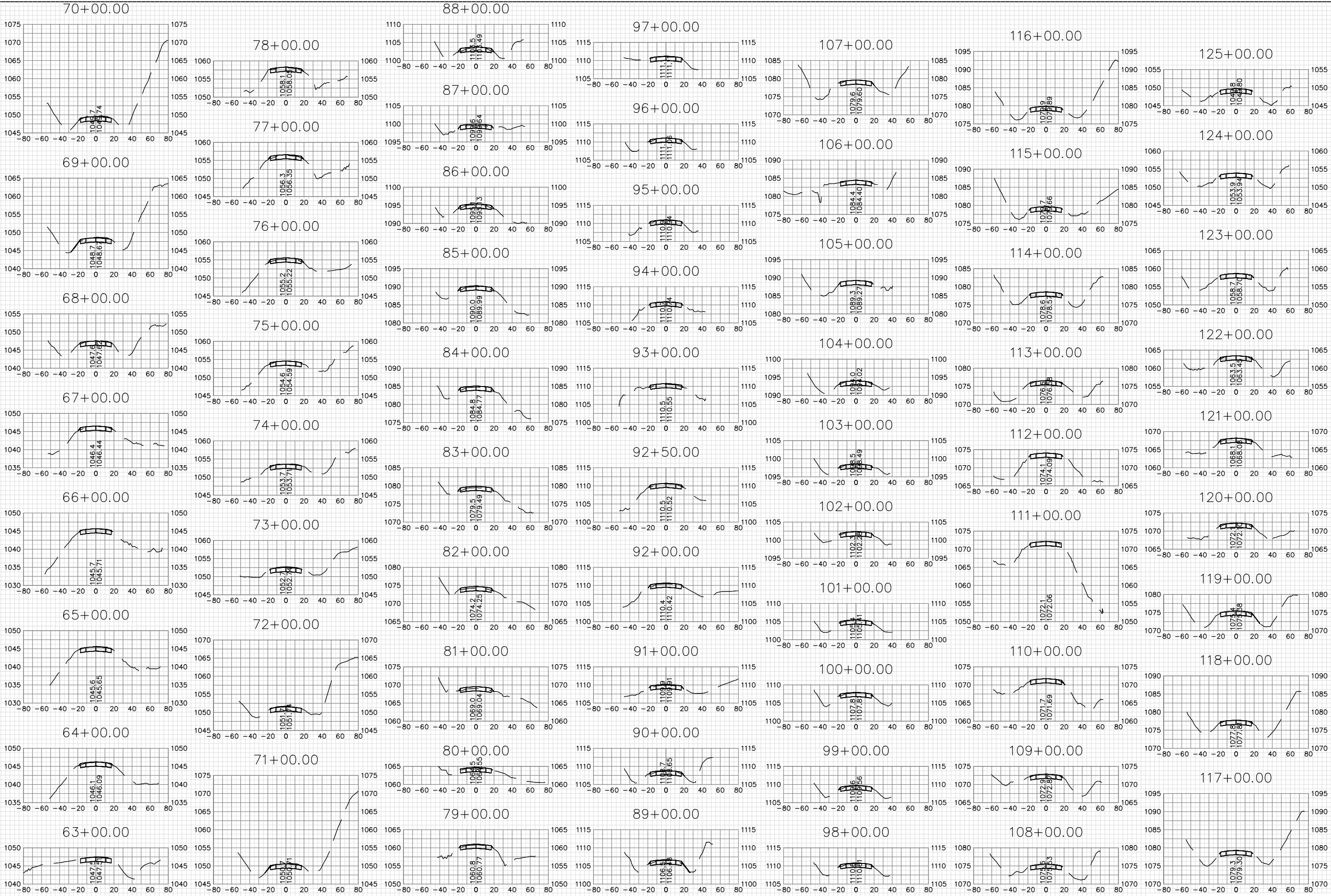
PROJECT NUMBER

STP-S-C036(93)--5E-36

SHEET NUMBER

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J64/310TH STREET

DESIGN TEAM — HGM * CADD * PRODUCED

STATE OF IOWA

FREMONT COUNTY

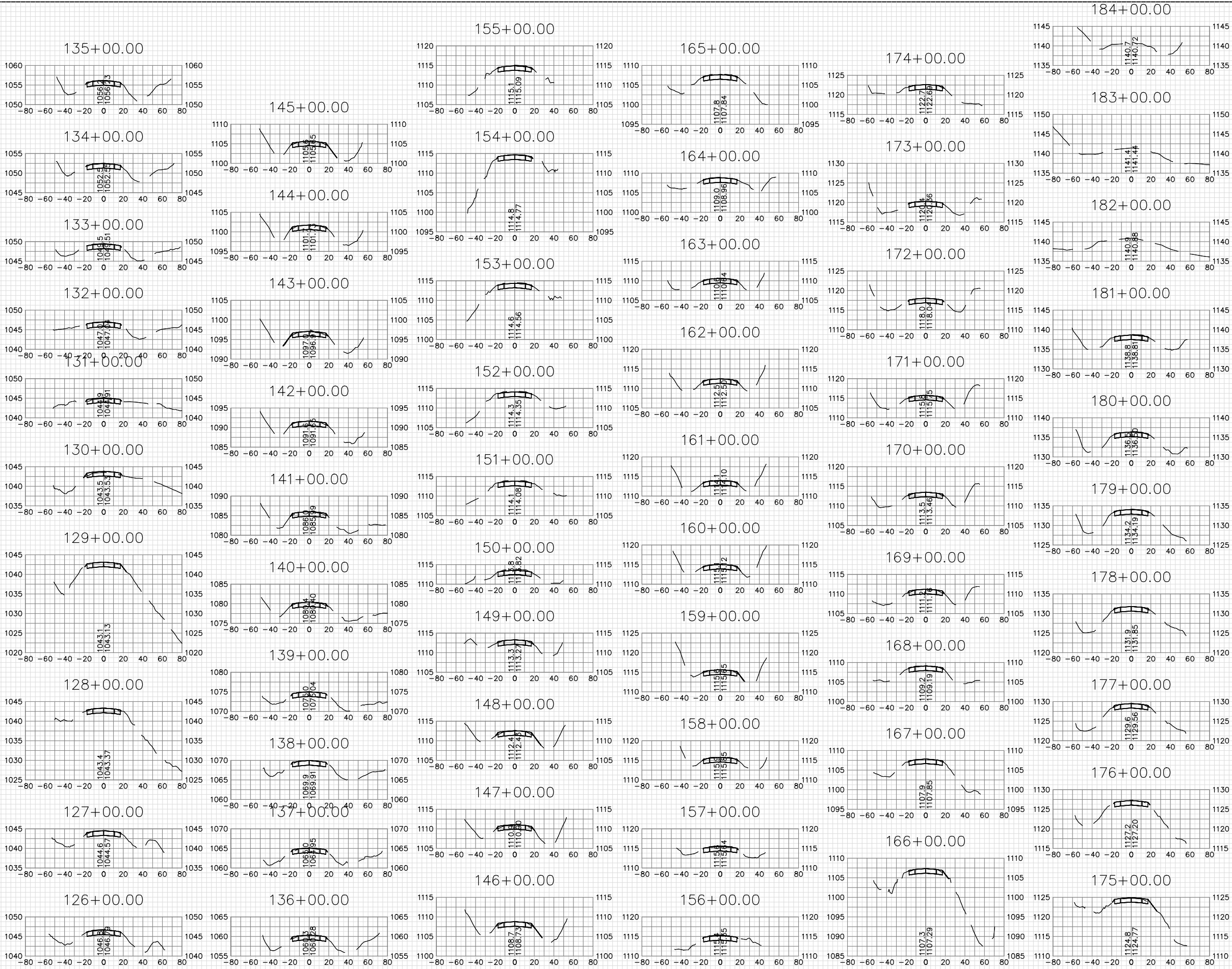
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STP-S-C036(93)--5E-36

SHEET NUMBER

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J64/310TH STREET

DESIGN TEAM - HGM * CADD * PRODUCED

STATE OF IOWA

FREMONT COUNTY

PROJECT NUMBER

STP-S-C036(93)--5E-36

SHEET NUMBER

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