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A Sheets	Title Sheets
A.1	Title Sheet
A.2	Location Map Sheet
B Sheets	Typical Cross Sections and Details
B.1	Typical Cross Sections and Details
C Sheets	Quantities and General Information
C.1	Project Description
C.1	Estimated Project Quantities
C.1	Estimate Reference Information
C.1	Standard Road Plans
C.1	Index of Tabulations
C.1	General Notes
C.1	Tabulations
D Sheets	Mainline Plan and Profile Sheets
* D.1	Plan & Profile Legend & Symbol Information Sheet
* D.2	US 65
J Sheets	Traffic Control and Staging Sheets
* J.1	Traffic Control Plan
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W Sheets	Mainline Cross Sections
W.1	Cross Sections Legend & Symbol Information Sheet
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	* Color Plan Sheets



Highway Division

PLANS OF PROPOSED IMPROVEMENT ON THE

PRIMARY ROAD SYSTEM

STORY COUNTY

RCB Culvert New - Single Box

N of US 30 to 0.9 mi S of SCL of Hubbard

SCALES: As Noted

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.14 of the Specifications.



Refer to Sheets A.2 and A.3
for location map

DESIGN DATA RURAL			
2021	AADT	2000	V.P.D.
2041	AADT	776	V.P.D.
2041	DHV	--	V.P.H.
TRUCKS		18	%
Total			
Design ESALs		1,282,366	

INDEX OF SEALS		
SHEET NO.	NAME	TYPE
A.1	Allison Smyth	Primary Signature Block

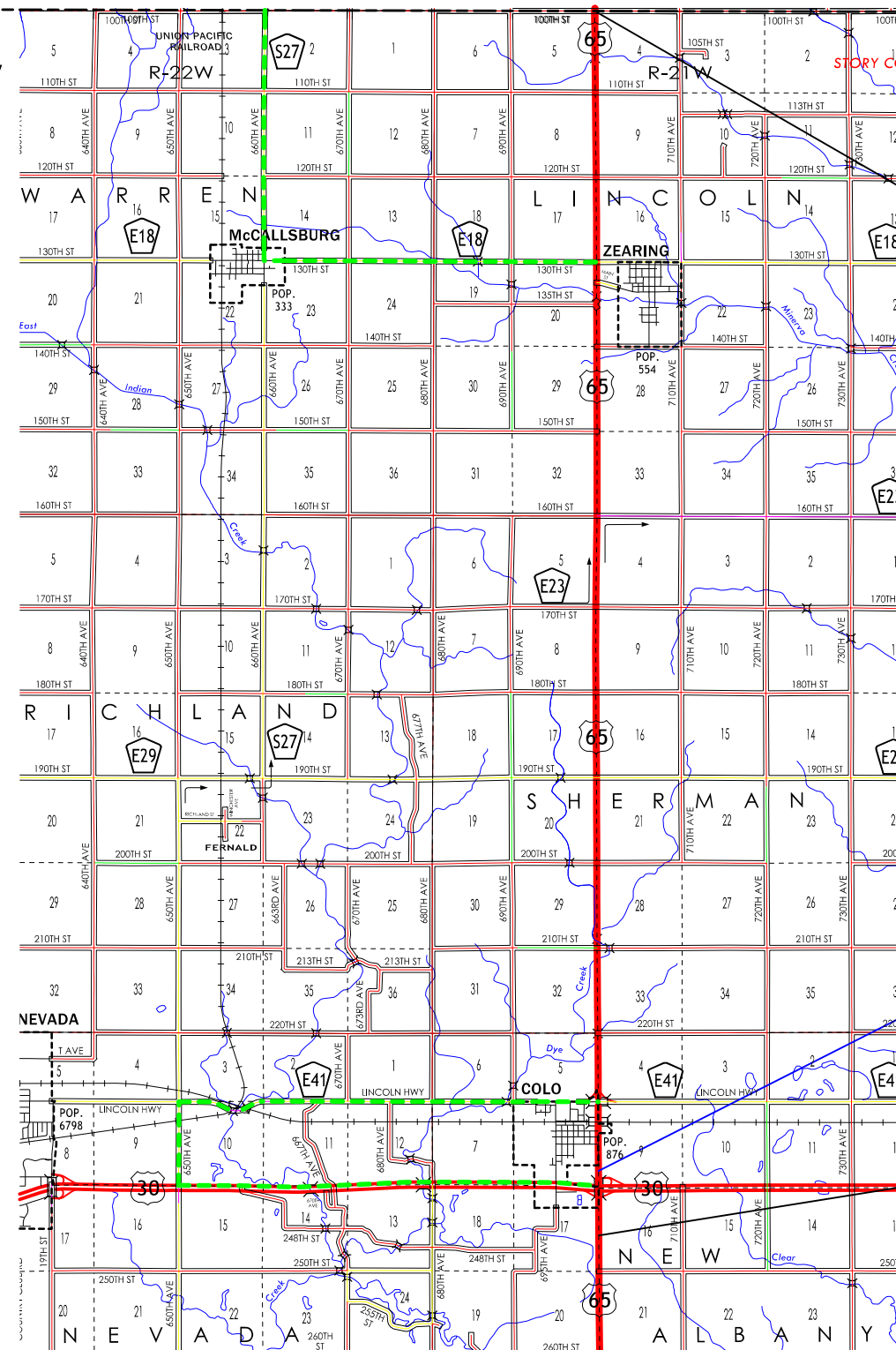
PRELIMINARY PLANS

Subject to change by final design.

D5 PLAN – Date: 9–30–2021

HARDIN COUNTY (Refer to Sheet A.2)

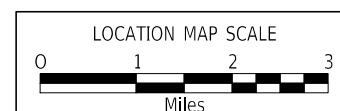
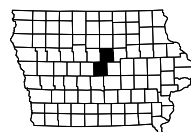
STORY COUNTY



Sta. 685+90.8 Story County
= Sta. 0+00.0 Hardin County

Sta. 1738+26. SITE 1
Existing 36"x60" RCP
Replace W/ 44"x27" LCP

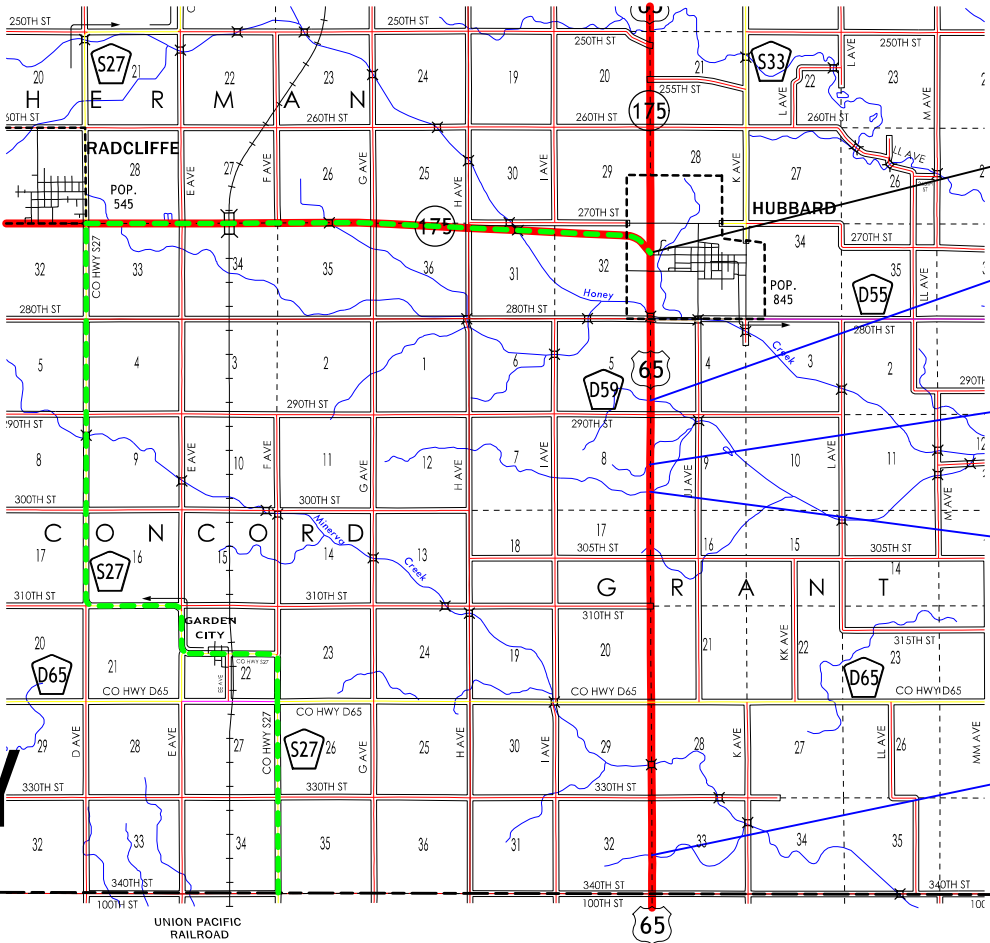
Sta. 1698+00.00
Ref. Loc. 111.60
Begin Project





HARDIN COUNTY

STORY COUNTY (Refer to Sheet A.3)



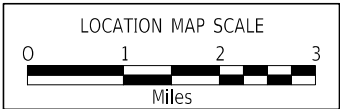
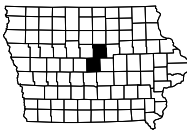
Sta. 354+01.10
Ref. Loc. 132.59
End Project

Sta. 271+39.0, SITE 5
Existing Twin 6'x3'x38' 2" RCB
Replace W/ 8 x 4' RCB

Sta. 237+16.0, SITE 4
Existing 4'x3'x39' RCB
Replace W/ 65" x 40" LCP

Sta. 221+01.0, SITE 3
Existing Twin 8'x5'x36'6" RCB
Replace W/ 12'x 5' RCB

Sta. 21+34.0, SITE 2
Existing 6'x4'x38'8" RCB
Replace W/ 88"x54" LCP



SURVEY SYMBOLS

	Interstate Highway Symbol		Septic Tank
	U.S. Highway Symbol		Cistern
	Iowa Highway Symbol		L.P. Gas Tank (No Footing)
	County Road Highway Symbol		Underground Storage Tank
	Evergreen Tree		Latrine
	Deciduous Tree		Satellite TV Dish
	Fruit Tree		Water Hook Up
	Shrub (Bushes)		Radio Tower
	Timber		Tower Anchor
	Hedge		Guardrail (Beam or Cable)
	Stump		Guard Post (one or two)
	Swamp		Guard Post (over two)
	Rock Outcrop		Filler Pipe
	Broken Concrete		Gas Valve
	Revetment (Rip Rap)		Water Valve
	Cemetery		Speed Limit Sign
	Grave		Mile Marker Post
	Cave		Sign
	Sink Hole		Traffic Signal Control Box
	Board Fence		Rail Road Signal Control Box
	Chain Link or Security Fence		Telephone Switch Box
	Wire Fence		Electric Box
	Terrace		
	Earth Dam or Dike (Existing)		
	Earth Dam or Dike (Proposed)		
	Tile Outlet		
	Edge of Water		
	Existing Drainage		
	Proposed Drainage		
	Right of Way Rail or Lot Corner		
	Concrete Monument		
	Well		
	Windmill		
	Beehive Intake		
	Existing Intake		
	Proposed Intake		
	Existing Utility Access (Manhole)		
	Proposed Utility Access (Manhole)		
	Fire Hydrant		
	Water Hydrant (Rural)		

UTILITY LEGEND

Jerry Lavine

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

LINEWORK	Design	Color No.	
Green	(2)		Existing Topographic Features and Labels
Blue	(1)		Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Magenta	(5)		Existing Utilities
SHADING	Design	Color No.	
Lavender	(9)		Temporary Pavement Shading
Gray, Light	(48)		Proposed Pavement Shading
Gray, Med	(80)		Proposed Granular Shading
Gray, Dark	(112)		Proposed Grade and Pave Shading "In conjunction with a paving project"
Brown, Light	(236)		Grading Shading
Tan	(8)		Proposed Sidewalk Shading
Blue, Light	(230)		Proposed Sidewalk Landing Shading
Pink	(11)		Proposed Sidewalk Ramp Shading

PROFILE VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS

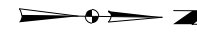
LINEWORK	Design	Color No.	
Green	(2)		Existing Ground Line Profile
Blue	(1)		Proposed Profile and Annotation
Magenta	(5)		Existing Utilities
Blue, Light	(230)		Proposed Ditch Grades, Left
Black	(0)		Proposed Ditch Grades, Median
Rust	(14)		Proposed Ditch Grades, Right

RIGHT-OF-WAY LEGEND	
	Proposed Right-of-Way
	Existing Right of Way
	Existing and Proposed Right-of-Way
	Easement and Existing Right-of-Way
	Easement (Temporary)
	Easement
	Access Control
	Property Line

	Reference Point
	Station
	Survey Line
	Section Corner
	Ground Line Intercept
	Saw Cut
	Guardrail
	Trench Drain
	HighTension Cable Guardrail
	Sheet Pile
	Pavement Removal
	Clearing & Grubbing Area

PLAN AND PROFILE
LEGEND AND SYMBOL
INFORMATION SHEET

(COVERS SHEET SERIES D, E, F, & K)



NEW ALBANY TWP
T-81N R-12W
SEC 8

1735+00

1736+00

1737+00

1738+00

1739+00

1740+00

1741+00



STA 1738+16.8
Begin Paving

STA 1738+36.8
End Paving

(REMOVE)

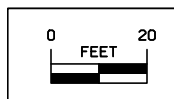
STA. 1738+26
36" x 62' RCP

(BUILD)
44"X27"X?? LCP

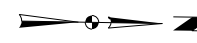
EXISTING ROW

EXISTING ROW

SEC 9

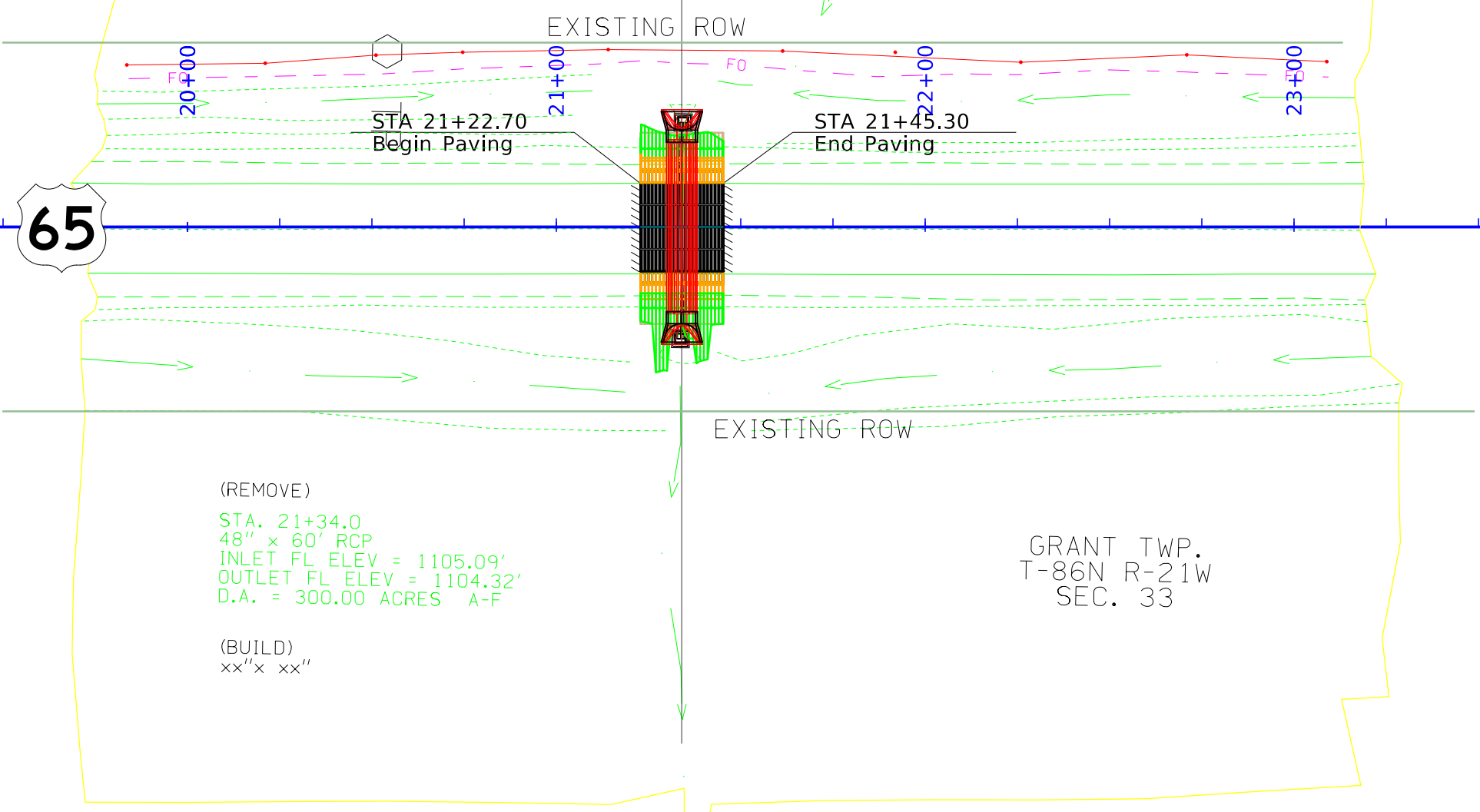


SITE 1



GRANT TWP.
T-86N R-21W
SEC. 32

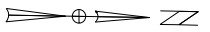
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T-86N R-21W
SEC. 33



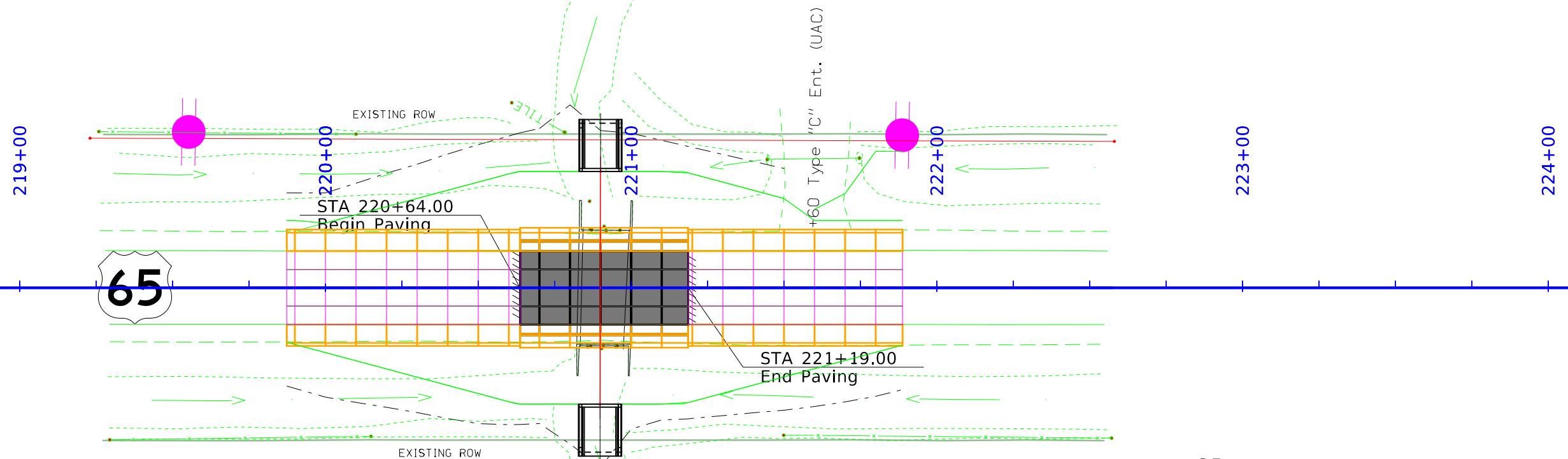
(REMOVE)
STA. 21+34.0
48" x 60' RCP
INLET FL ELEV = 1105.09'
OUTLET FL ELEV = 1104.32'
D.A. = 300.00 ACRES A-F

(BUILD)
xx" x xx"

SITE 2



GRANT TWP.
T-86N R-21W
SEC. 8



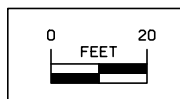
(REMOVE)

STA. 221+06
16.0' x 7.00' x 56.0' RCB
INLET FL ELEV = 1062.54
OUTLET FL ELEV = 1062.40
D.A. = 1740 AC - F

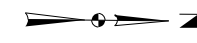
(BUILD)

XX''xXX'' X RCB

GRANT TWP.
T-86N R-21W
SEC. 9



SITE 3



GRANT TWP.
T-86N R-21W
SEC. 8

235+00

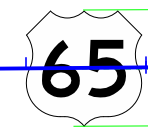
236+00

237+00

238+00

239+00

240+00



STA 236+95.00
Begin Paving

+24 Type "C" Ent. (UAC)



STA 237+15.00
End Paving



EXISTING ROW

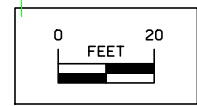
EXISTING ROW

(REMOVE)

INLET F.L. ELV. = 1060.00
OUTLET F.L. ELV. = 1059.36
STA. 237+16.0
48" x 62' RCP
D.A. = 126.00 A-R

(BUILD)
XX" x XX"

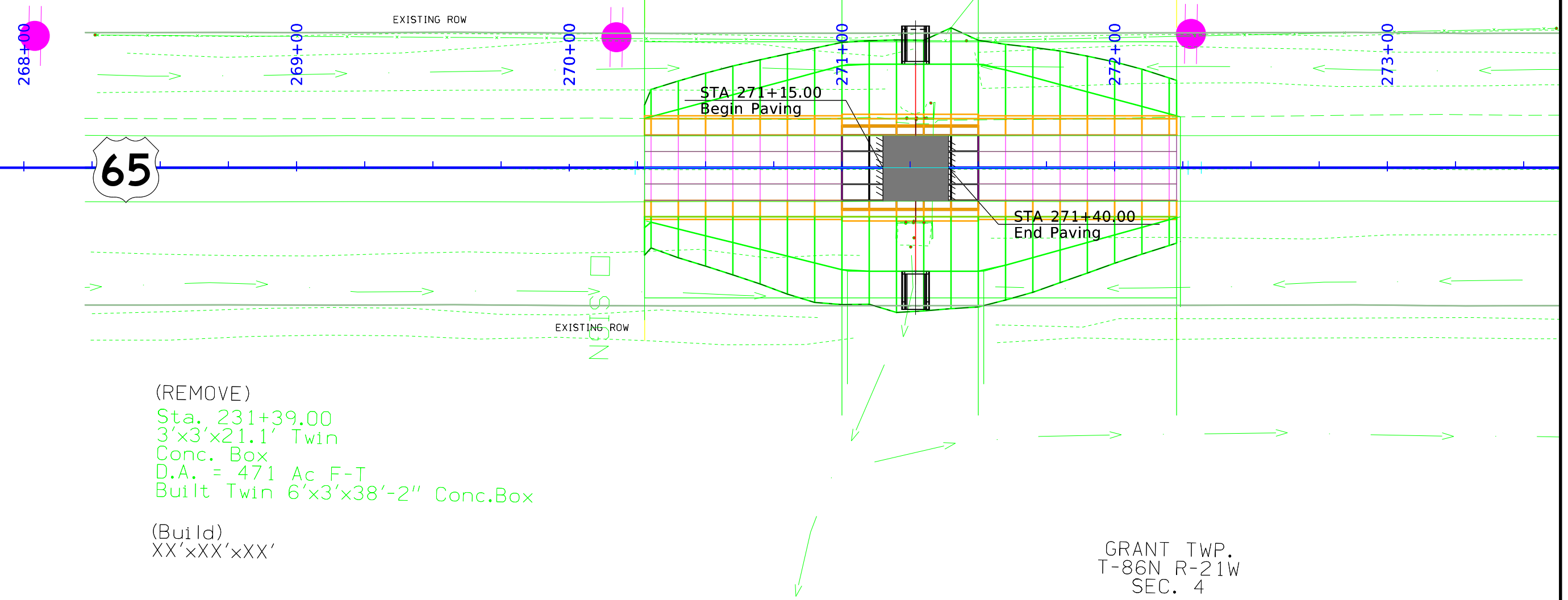
GRANT TWP.
T-86N R-21W
SEC. 9



SITE 4

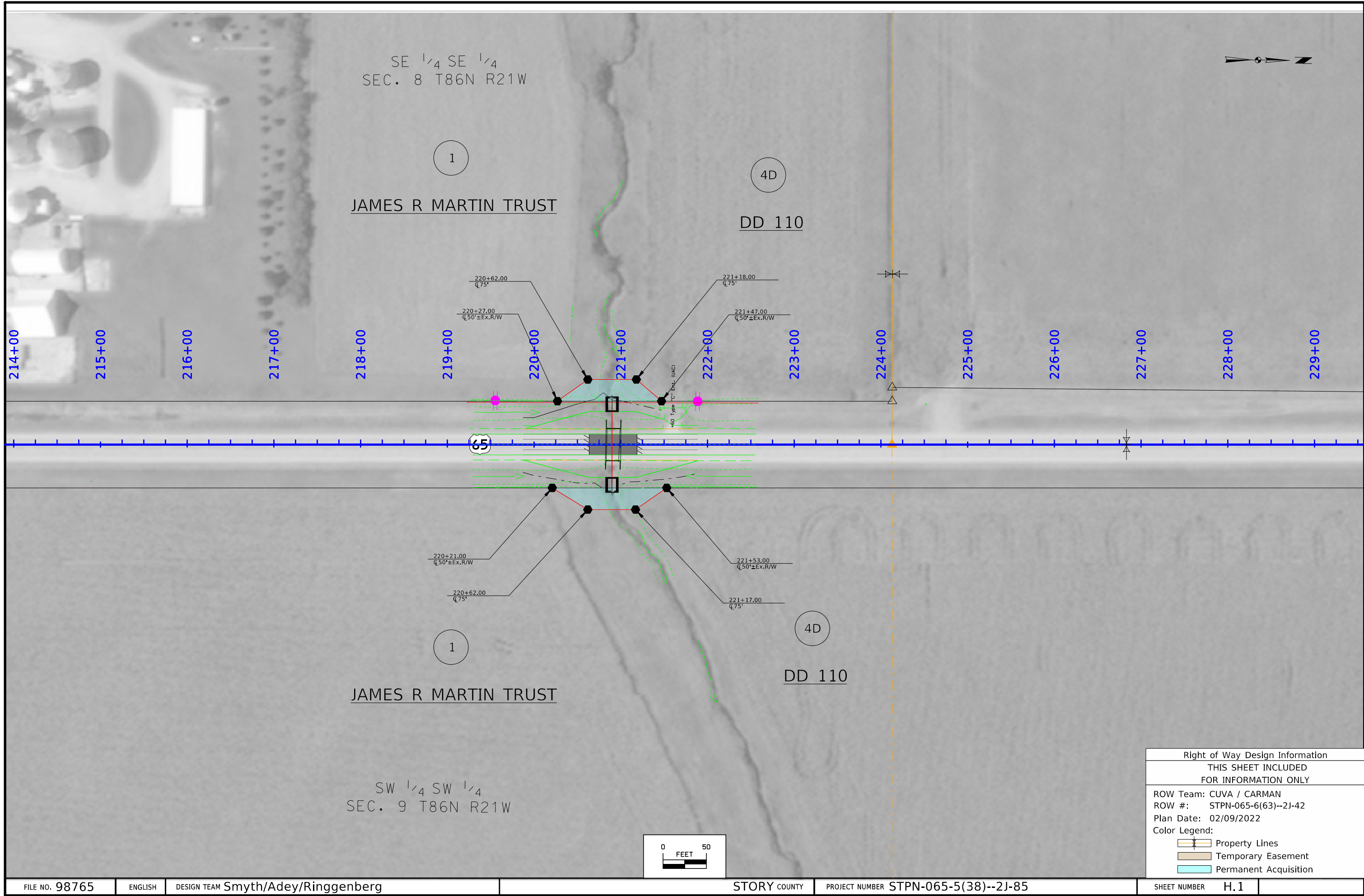


GRANT TWP.
T-86N R-21W
SEC. 5

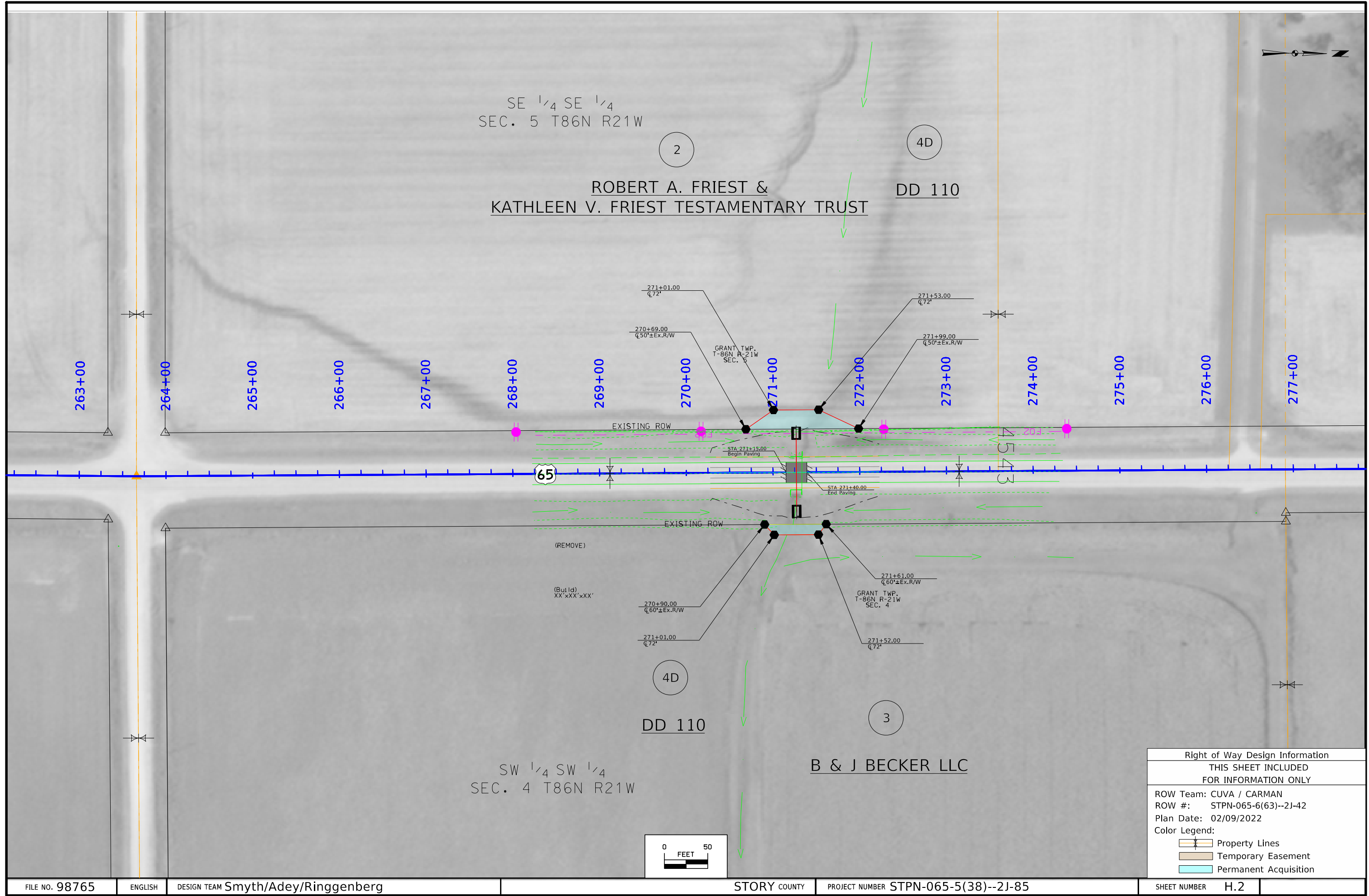


SITE 5

NO ACCESS RIGHTS ARE TO BE ACQUIRED ON THIS PROJECT.



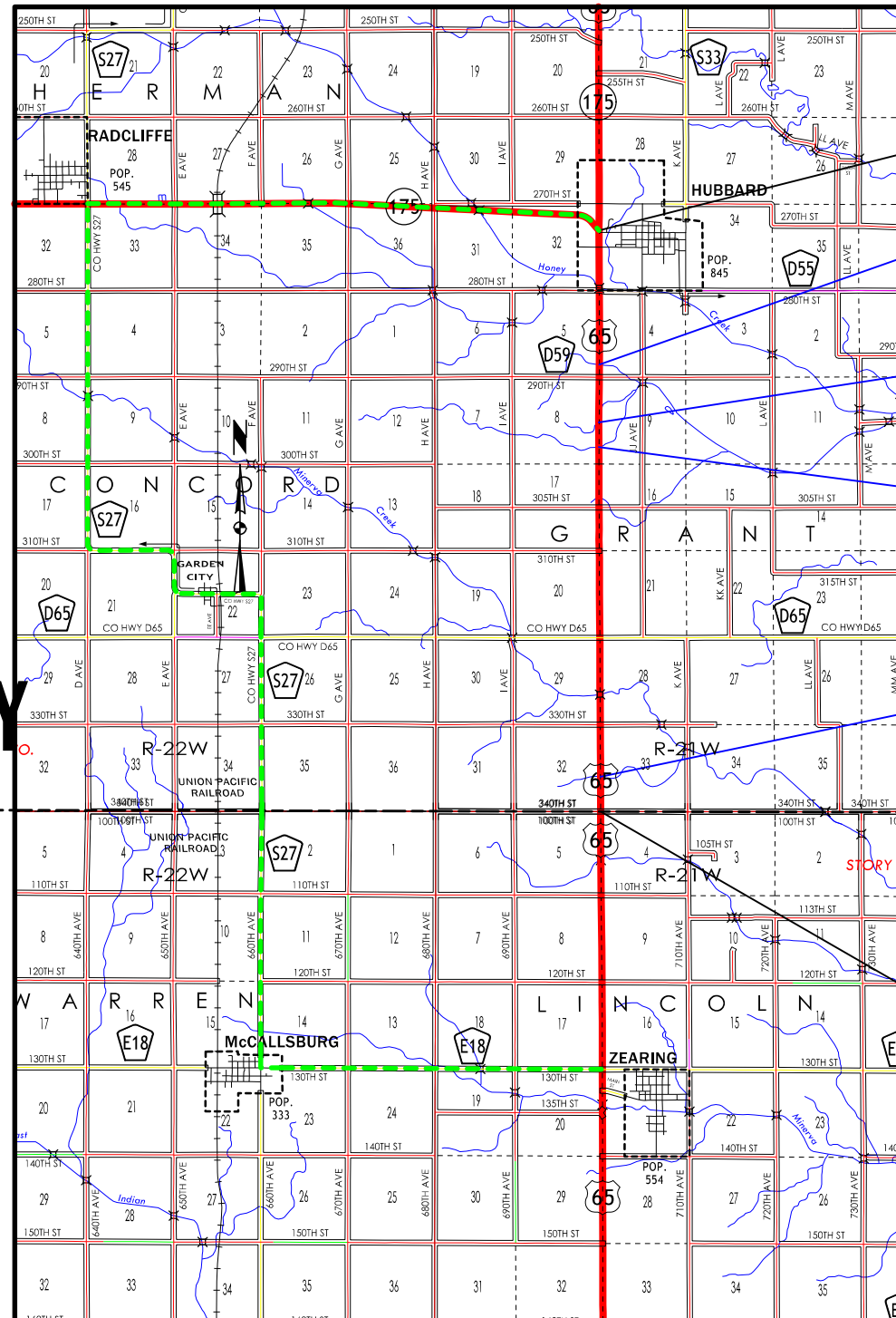
Right of Way Design Information	
THIS SHEET INCLUDED FOR INFORMATION ONLY	
ROW Team: CUVA / CARMAN	
ROW #: STPN-065-6(63)--2J-42	
Plan Date: 02/09/2022	
Color Legend:	
	Property Lines
	Temporary Easement
	Permanent Acquisition



FILE NO. 98765	ENGLISH	DESIGN TEAM Smyth/Adey/Ringgenberg	STORY COUNTY	PROJECT NUMBER STPN-065-5(38)--2J-85	SHEET NUMBER H.2
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HARDIN COUNTY

STORY COUNTY



Sta. 354+01.10
Ref. Loc. 132.59
End Project

Sta. 271+39.0 SITE 5
Existing Twin 6'x3'x38' 2" RCB
Replace W/ 8' x 4' RCB

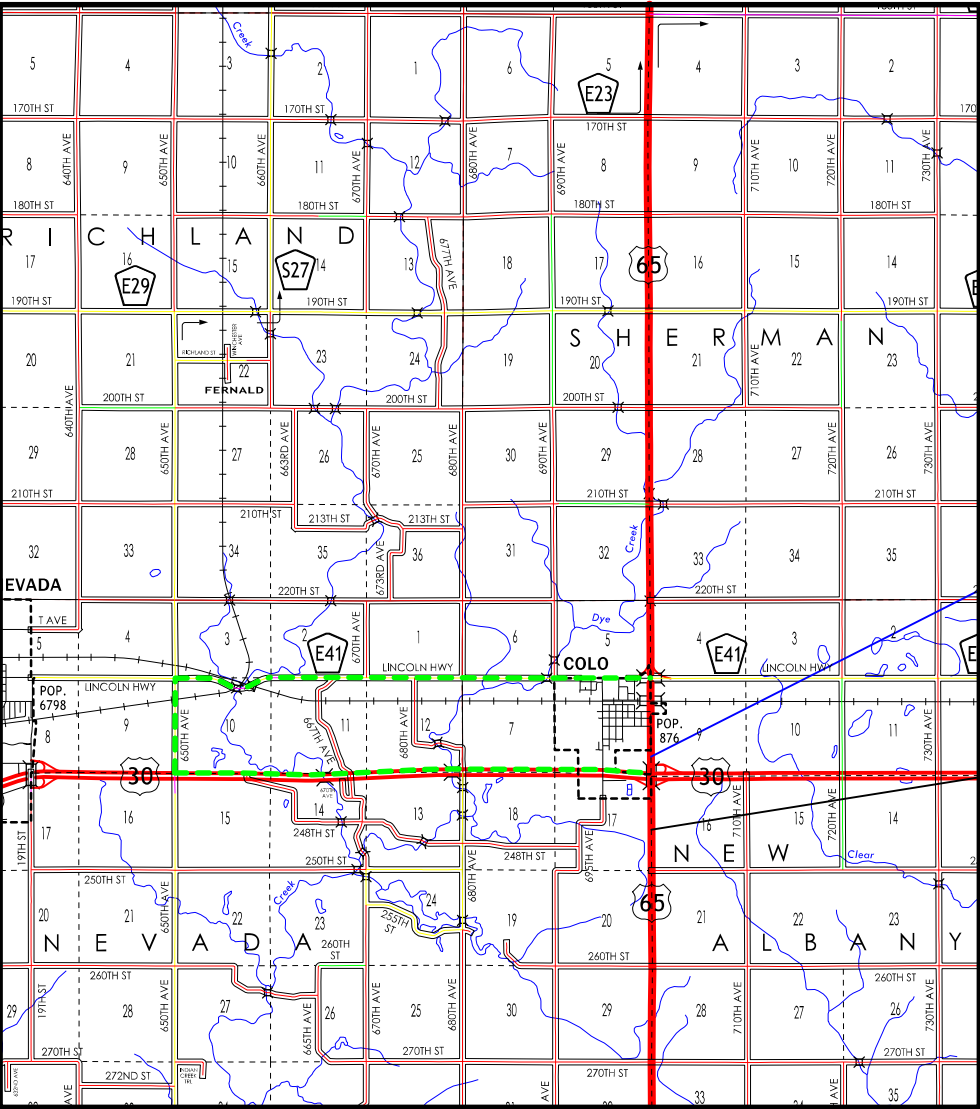
Sta. 237+16.0 SITE 4
Existing 4'x3'x39' RCB
Replace W/ 65" x 40" LCP

Sta. 221+01.0 SITE 3
Existing Twin 8'x5'x36' 6" RCB
Replace W/ 12' x 5' RCB

Sta. 21+34.0 SITE 2
Existing 6'x4'x38' 8" RCB
Replace W/ 88"x54" LCP

Sta. 685+90.8 Story County
= Sta. 0+00.0 Hardin County

----- DETOUR



Sta. 1738+26 SITE 1
Existing 36"x60" RCP
Replace W/ 44"x27" LCP

Sta. 1698+00.00
Ref. Loc. 111.60
Begin Project

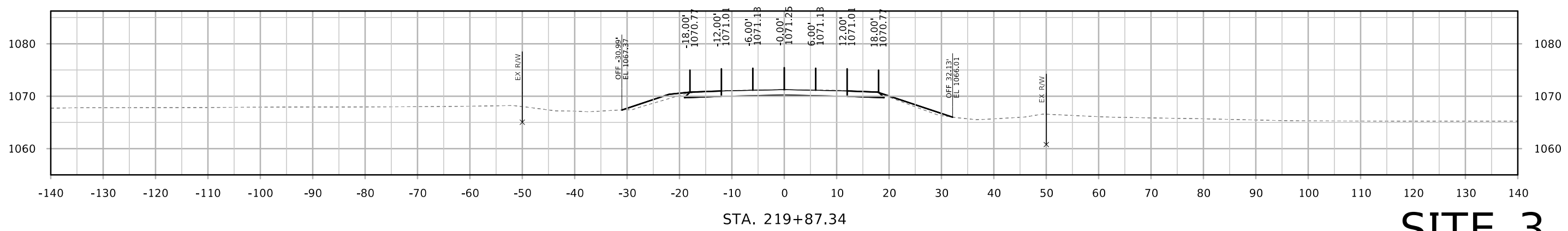
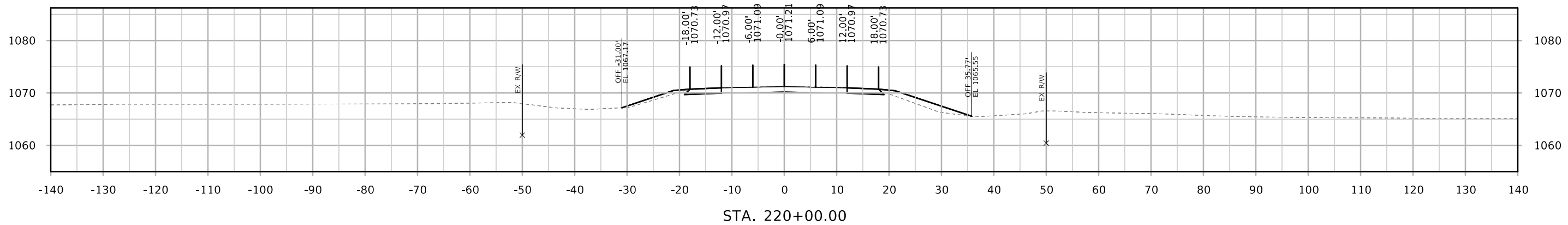
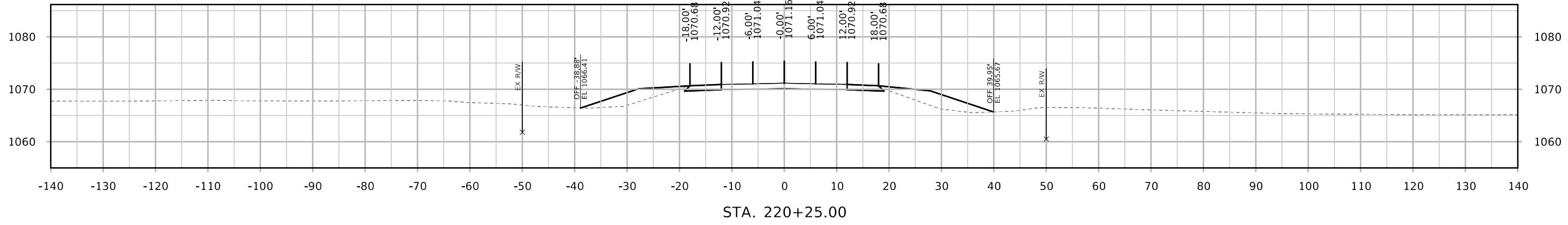
----- DETOUR

SITE 2

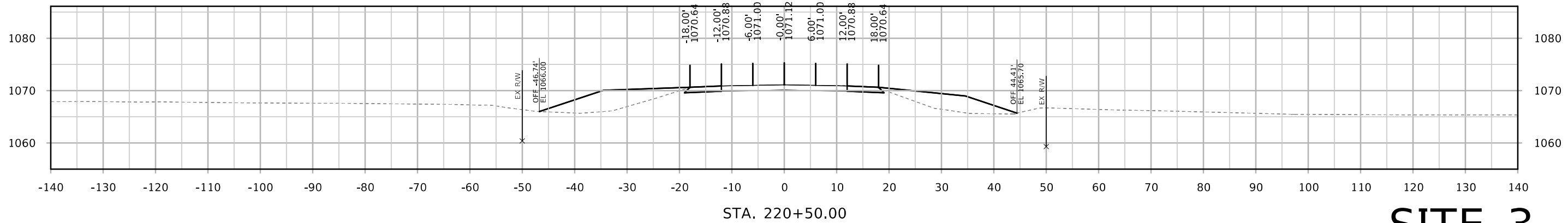
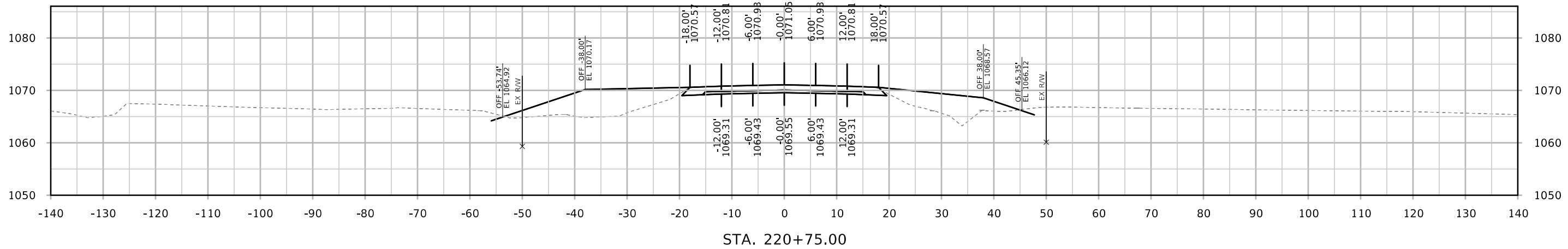
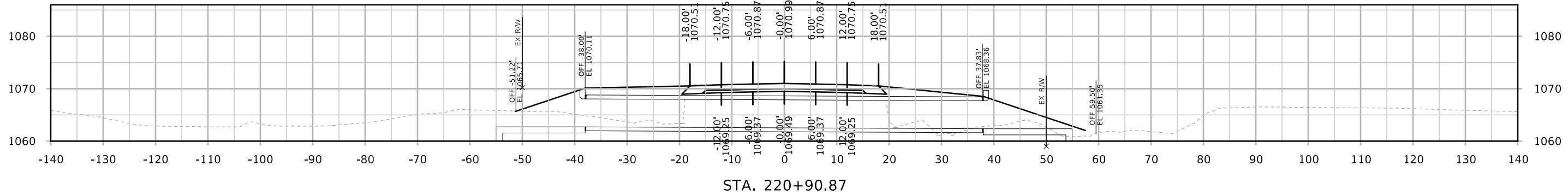
STA. 21+34.00

SITE 1

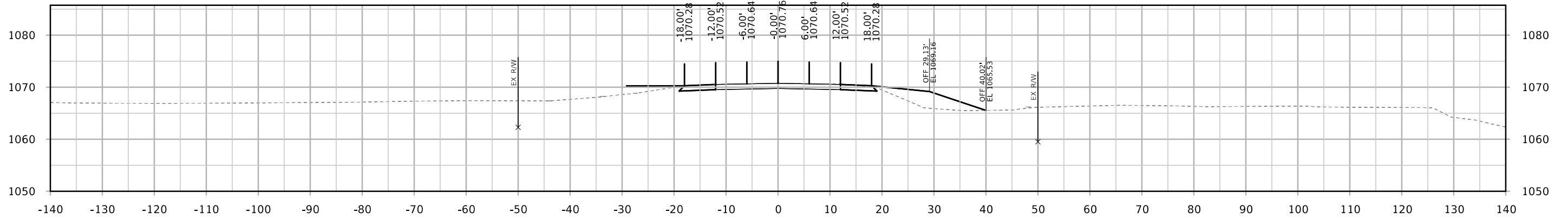
STA. 1738+26.82



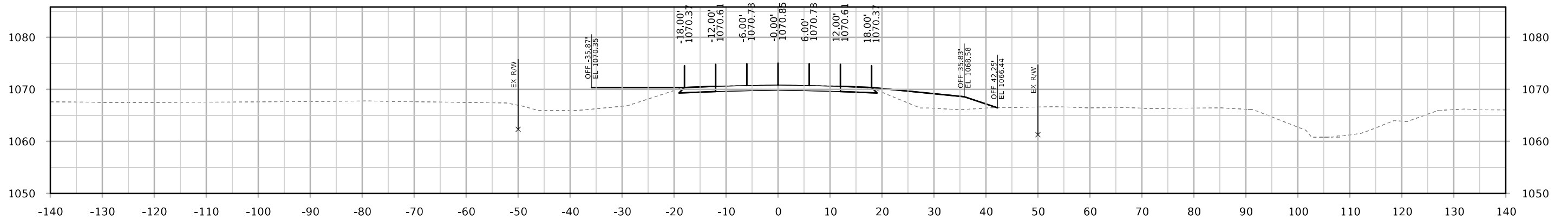
SITE 3



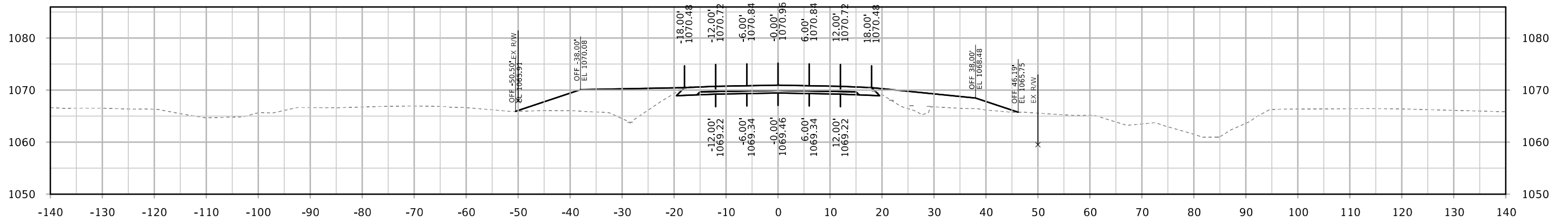
SITE 3



STA. 221+50.00

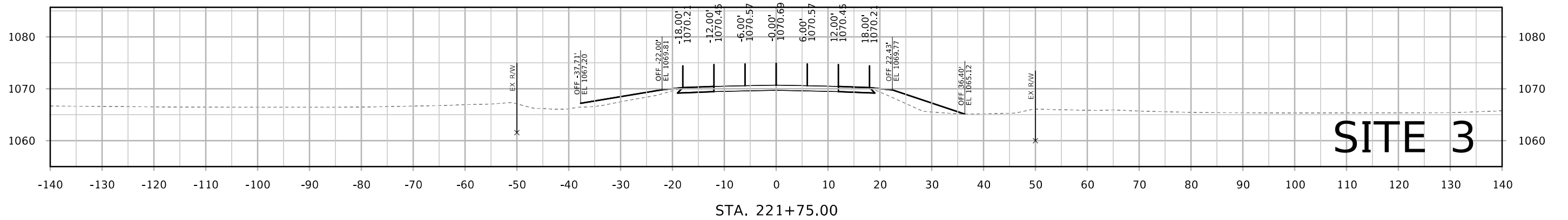
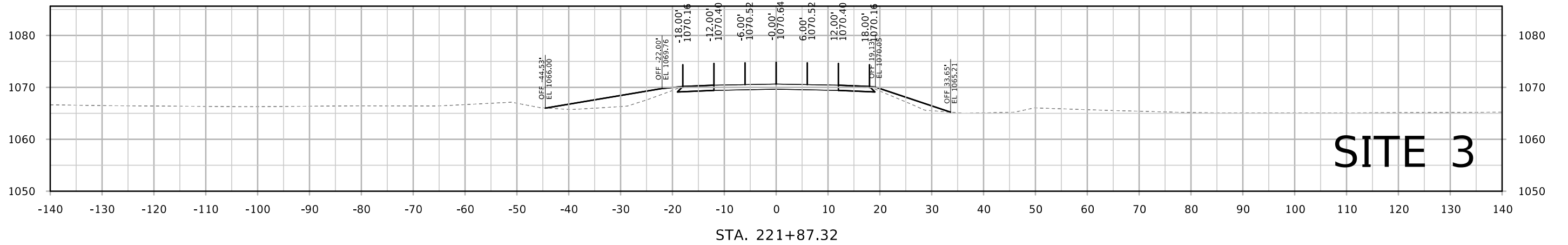
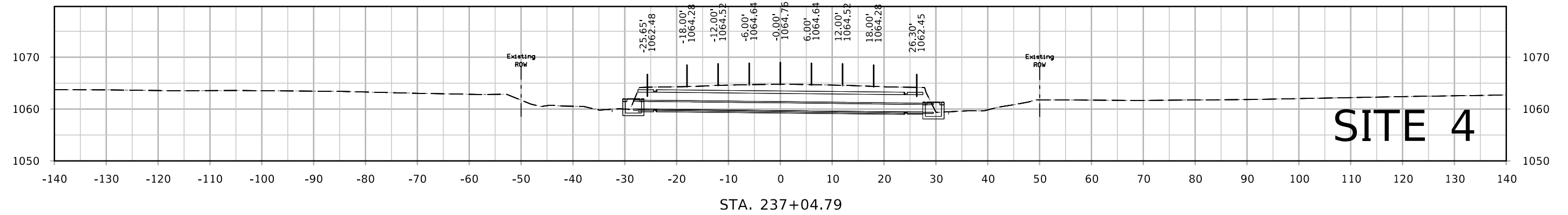


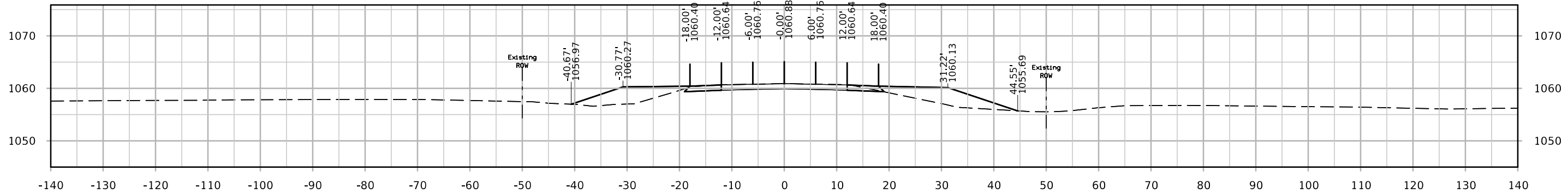
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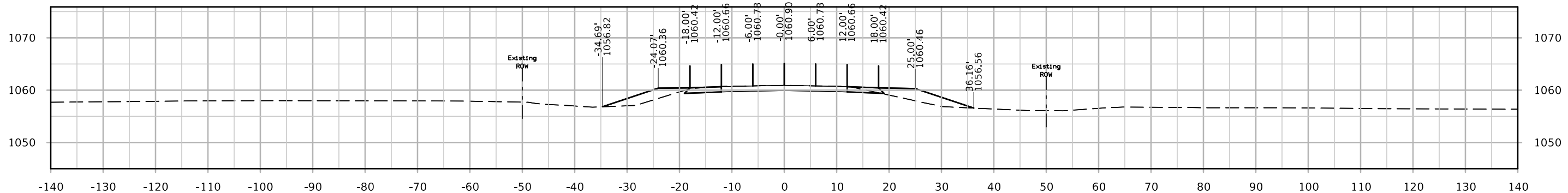
STA. 221+00.00

SITE 3

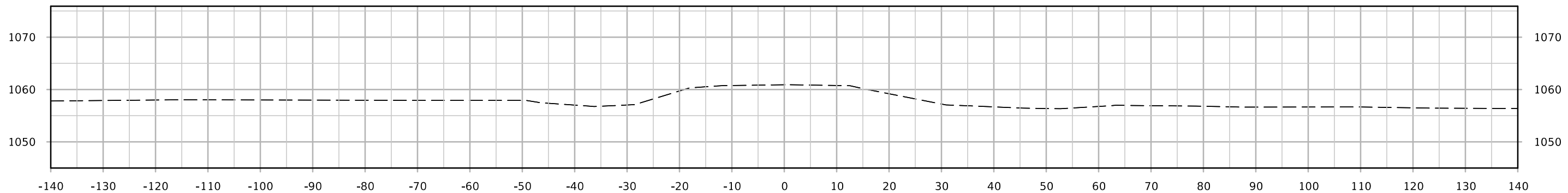




STA. 270+75.00

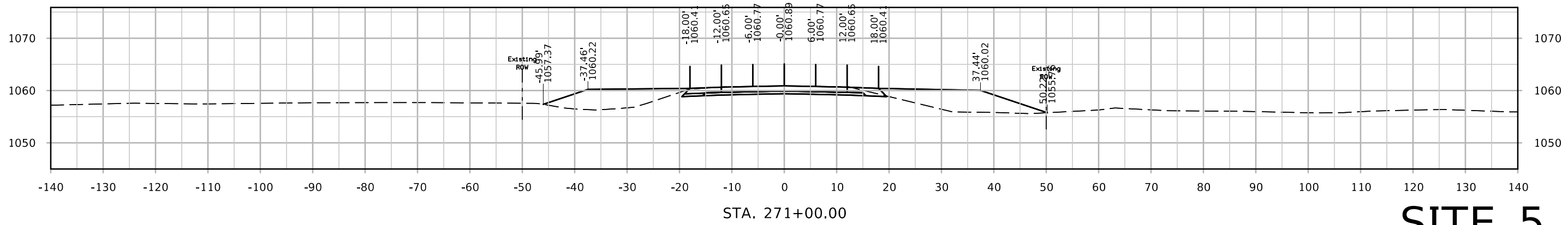
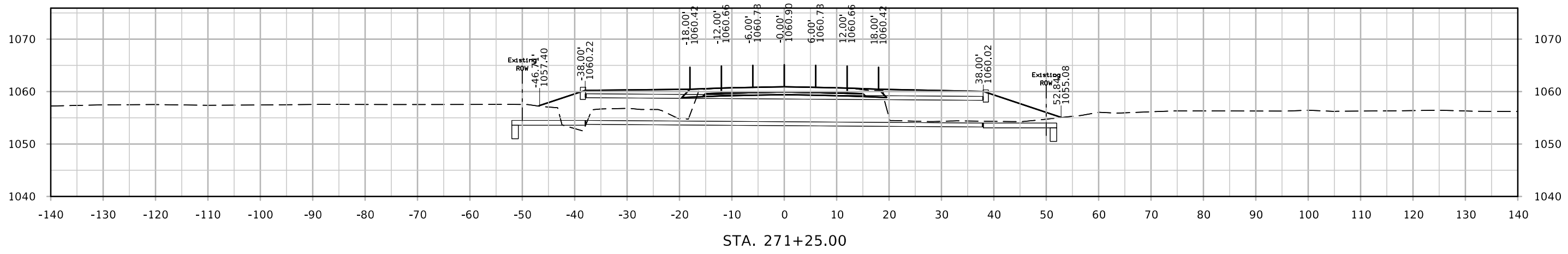
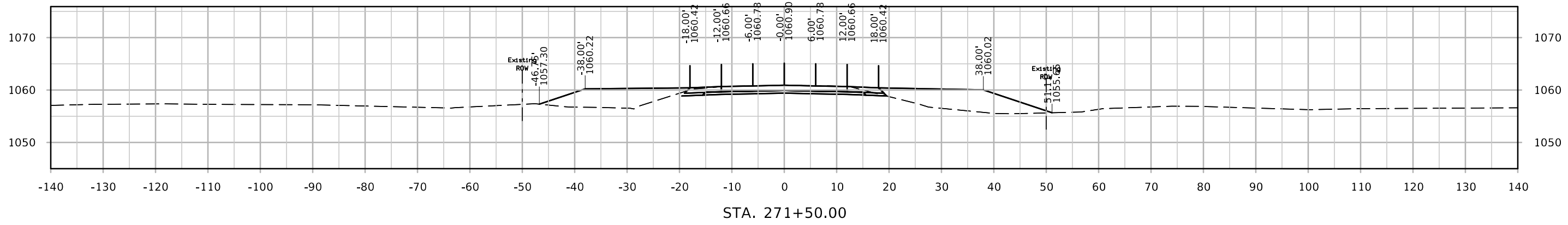


STA. 270+50.00

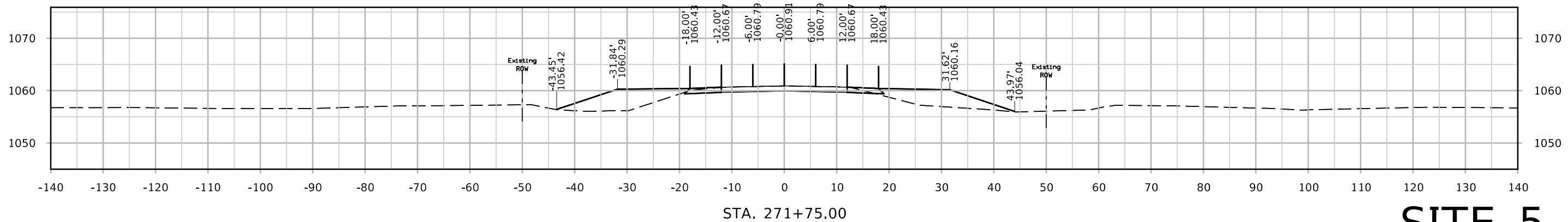
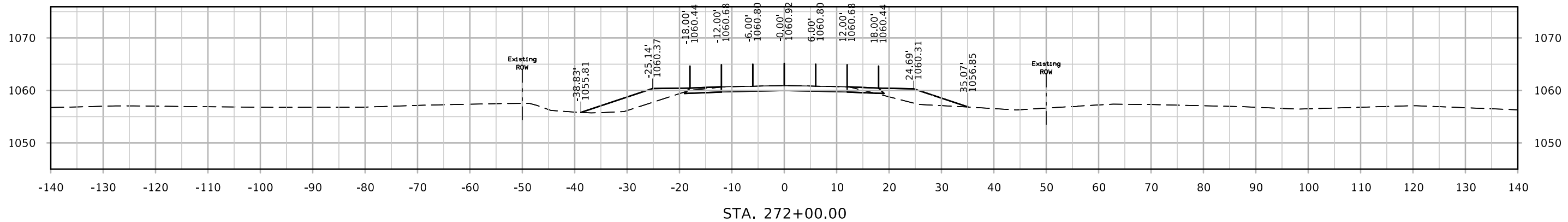
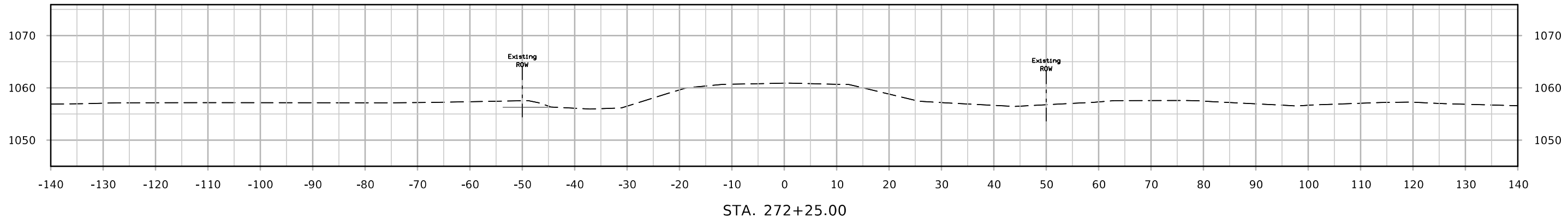


STA. 270+25.00

SITE 5



SITE 5



SITE 5