

TARRANT COUNTY, TEXAS

PLANS FOR THE CONSTRUCTION OF

BENTLEY BRIDGE DRIVE



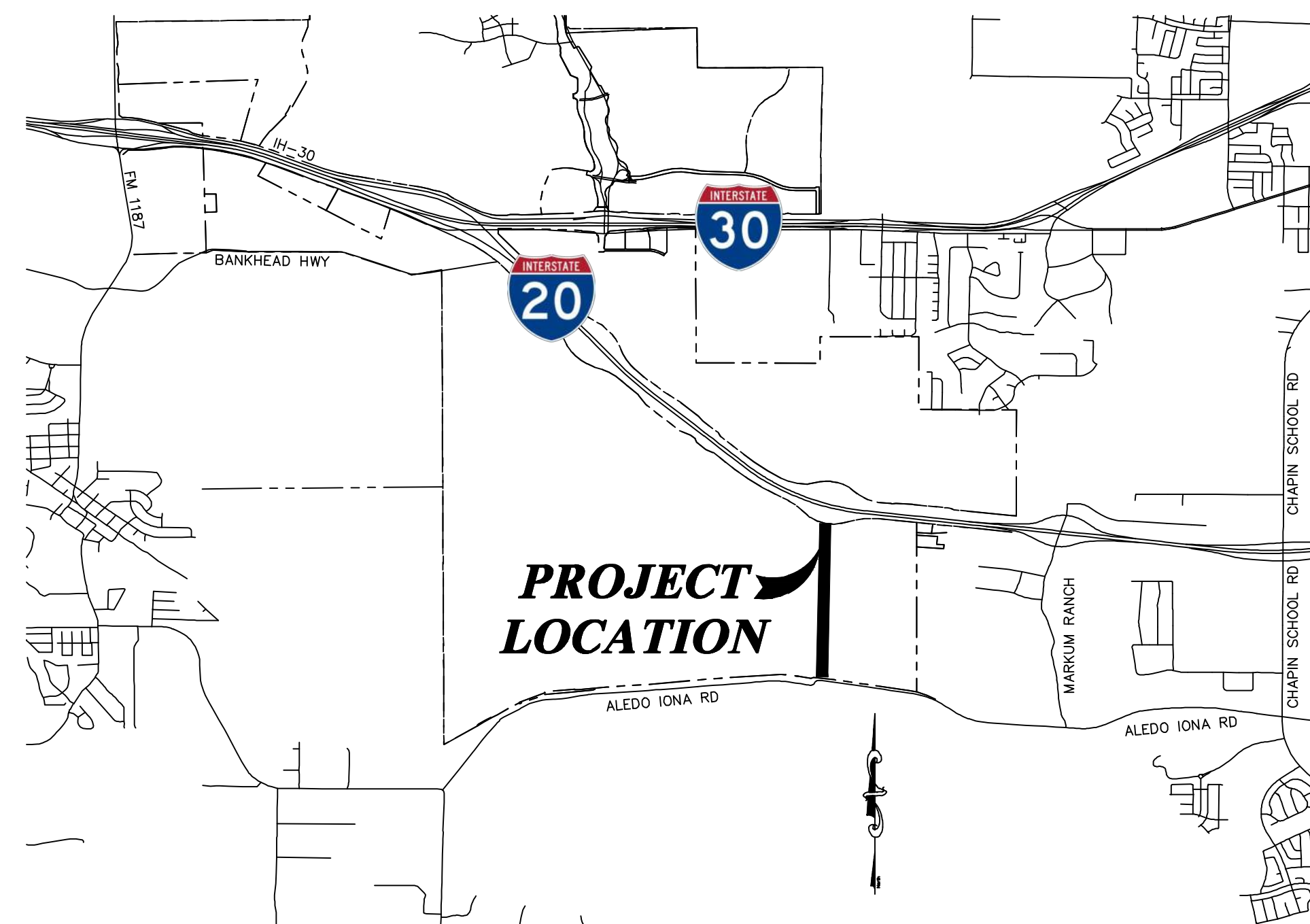
TARRANT COUNTY, TEXAS - PRECINCT NO. 1

B. GLEN WHITLEY
COUNTY JUDGE

JOSEPH JACKSON, PE, CFM
COUNTY ENGINEER

RANDALL SKINNER
DIRECTOR TRANSPORTATION SERVICES

G.K. MAENIUS
COUNTY ADMINISTRATOR



**PROJECT
LOCATION**

LOCATION MAP
N.T.S.

INDEX: SEE SHEET 2

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BY, OR UNDER THE SUPERVISION OF:
QUINTEN D. PLUMER
P.E.# 138475 DATE: October 3, 2022

TARRANT COUNTY, PRECINCT NO. 1

OCTOBER 2022

OWNER:
WALSH HOLDINGS, LLC
500 W. 7TH STREET
SUITE 1007, UNIT 27
FORT WORTH, TEXAS 76112
PHONE: (817) 335-3541



PREPARED BY:
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FULL PATH: C:\Production\transdcommunity\2001\20011105\Engineering\03 - Bentley Road Schematic\03\Drawings\04 Sheet\04.rvt
 PLOTTED BY: Quinten Plumer
 PLOTTED AT: 7:58:27 AM
 PLOTTED ON: 10/03/2022

TARRANT COUNTY, TEXAS
 BENTLEY BRIDGE DRIVE PROJECT

EXISTING LEGEND

	PROPERTY LINE AND RIGHT-OF-WAY
	EASEMENT LINE
	IRON ROD FOUND
	BENCH MARK OR CONTROL POINT
	UTILITY POLE
	LIGHT POLE
	GUY WIRE
	STEEL POLE & MAST ARM
	PEDESTAL POLE
	EXISTING SIGN
	FLAG POLE
	MAIL BOX
	BOLLARD, GATE POST
	TELEPHONE RISER
	WATER METER
	WATER VALVE
	WATER VALVE VAULT
	IRRIGATION VALVE
	SPRINKLER VALVE
	SPRINKLER HEAD
	FIRE HYDRANT
	GAS VALVE
	GAS METER
	STORM DRAIN MANHOLE
	STORM DRAIN PIPE
	SANITARY SEWER MANHOLE
	SANITARY SEWER CLEANOUT
	SIGNAL BOX
	CABLE BOX
	PIPE FENCE
	STONE/BRICK WALL
	CHAIN LINK FENCE
	SHRUB
	TREE
	BUILDING
	CONC CURB & GUTTER
	EDGE OF ASPHALT
	EDGE OF GRAVEL
	OVERHEAD ELECTRIC
	UNDERGROUND ELECTRIC
	UNDERGROUND TELEPHONE
	SANITARY SEWER
	WATER LINE (< 16")
	WATER LINE (≥ 16")
	GAS LINE
	UNDERGROUND FIBER OPTIC CABLE
	UNDERGROUND CABLE

ABBREVIATIONS

BC	BACK OF CURB
BM	BENCH MARK
BW	BOTTOM OF WALL
CI	CURB INLET
CP	CONTROL POINT
D.R. T.C.T.	DEED RECORDS TARRANT COUNTY TEXAS
ELEV	ELEVATION
EG	EXISTING GRADE ELEVATION
FC	FACE OF CURB
FG	FINISHED GRADE ELEVATION
FL	FLOW LINE
GT	GUTTER
HGL	HYDRAULIC GRADE LINE
K	RELATIVE CHANGE IN VERTICAL GRADE
LAT	LATERAL
LF	LINEAR FEET
NGS	NATIONAL GEODETIC SURVEY
OHE	OVER HEAD ELECTRICITY
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PGL	PROPOSED GRADE LINE
PI	POINT OF INTERSECTION
PRC	POINT OF REVERSE CURVATURE
PROP	PROPOSED
PT	POINT OF TANGENCY
PVI	POINT OF VERTICAL INTERSECTION
PVC	POINT OF VERTICAL CURVATURE
PVT	POINT OF VERTICAL TANGENCY
RP	RADIUS POINT
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
SD	STORM DRAIN
SDWK	SIDEWALK
STD	STANDARD
STA	STATION
SS	SANITARY SEWER
TC	TOP OF CURB
TG	TOP OF GRATE
TOP	TOP OF PIPE
TW	TOP OF WALL
TWE	TEMPORARY WORKSPACE EASEMENT
U.P.R.R.	UNION PACIFIC RAILROAD
VC	VERTICAL CURVE
YR	YEAR

GRADING LEGEND

	EXISTING MAJOR CONTOUR (5 FT)
	EXISTING MINOR CONTOUR (1 FT)
	PROPOSED MAJOR CONTOUR (5 FT)
	PROPOSED MINOR CONTOUR (1 FT)
	EXISTING STORM DRAIN
	FUTURE STORM DRAIN
	PROPOSED STORM
	STORMWATER FLOW DIRECTION
	CHANNEL FLOWLINE
	TOP OF CUT/TOE OF SLOPE
	PROPOSED GRADE SLOPES

PAVING LEGEND

	PROPOSED CONCRETE PAVEMENT
	PROPOSED SIDEWALK PAVEMENT
	PROPOSED CONCRETE CURB
	PROPOSED RIGHT-OF-WAY
	PROPOSED TEMPORARY WORKSPACE EASEMENT

UTILITY NOTE:
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 ONCOR ELECTRIC DELIVERY (888) 313-6862

NOTE:
 ROADWAY AND DRAINAGE ITEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH APPLICABLE CITY OF FORT WORTH STANDARD DETAILS AND SPECIFICATIONS, UNLESS NOTED OTHERWISE.

INDEX OF SHEETS

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26 - 28	CROSS SECTIONS - ALEDO ROAD CONNECTOR
29 - 30	DRAINAGE AREA MAP

SUMMARY OF QUANTITIES BENTLEY BRIDGE DRIVE

ITEM NO.	ITEM DESCRIPTION	UNIT	QTY
1	Site Clearing	LS	1
2	SWPPP ≥ 1 acre	LS	1
3	Construction Staking	LS	1
4	Seeding, Hydromulch	SY	38,000
5	4" Topsoil Import	SY	38,000
6	Unclassified Excavation and Fill	CY	53,175
7	Hydrated Lime	TN	582
8	8" Lime Treatment	SY	32,320
9	11" Conc Pvmt	SY	30,955
10	4" Conc Sidewalk	SF	95,180
11	ADA Curb Ramps (Barrier Free)	EA	6
12	Medium Stone Riprap, dry	SY	2,000
13	Trench Safety	LF	5,480
14	24" RCP, Class III	LF	2,755
15	27" RCP, Class III	LF	280
16	30" RCP, Class III	LF	300
17	36" RCP, Class III	LF	675
18	42" RCP, Class III	LF	30
19	6x6 Box Culvert	LF	130
20	7x6 Box Culvert	LF	925
21	8x4 Box Culvert	LF	385
22	4' Storm Junction Box	EA	8
23	5' Storm Junction Box	EA	2
24	10' Recessed Inlet	EA	17
25	15' Recessed Inlet	EA	7

SUMMARY OF QUANTITIES BENTLEY BRIDGE DRIVE

ITEM NO.	ITEM DESCRIPTION	UNIT	QTY
26	WINGWALL (PW - 1) (HW=5 FT)	EA	2
27	WINGWALL (PW - 1) (HW=7 FT)	EA	2
28	WINGWALL (PW - 1) (HW=10 FT)	EA	2
29	Furnish/Install Conduit-Schedule 80 PVC 2 Inch Open Cut	LF	9,300
30	NO 2 Insulated Elec Condr	LF	18,600
31	NO 8 Bare Elec Condr	LF	9,300
32	Ground Box Type B, w/Apron	EA	12
33	Furnish/Install Type 33A Arm	EA	50
34	Furnish/Install 120-240 Volt Single Phase Metered Pedestal	EA	1
35	Furnish/Install LED Lighting Fixture (70 watt ATBO Cobra Head)	EA	50
36	Rdwy Illum Foundation TY 3,5,6, and 8	EA	45
37	Furnish/Install Rdway Illum TY 18 Pole	EA	45
38	4" BRK Pvmt Marking HAS (W)	LF	4,500
39	8" SLD Pvmt Marking HAS (W)	LF	300
40	REFL Raised Marker TY II-C-R	EA	220
41	Furnish/Install Alum Sign Ground Mount City Std.	EA	7
42	4" SLD Pvmt Marking HAS (Y)	LF	9,000
43	4" BRK Pvmt Marking HAS (Y)	LF	1,400
44	Design Survey	LS	1
45	Geotechnical Pavement Report	LS	1
46	Final Engineering	LS	1
47	Permit Processing (TxDOT)	LS	1
48	Gas/Franchise Coordination	LS	1
49	County Bonds	LS	1

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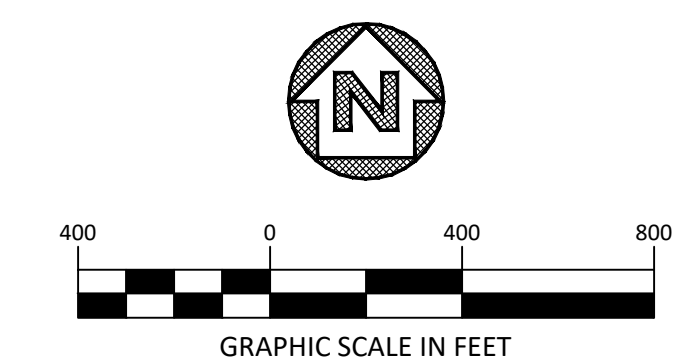


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HORIZ N/A	OCTOBER 2022
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 QUINTEN D. FLUMER
 P.E.# 138475 DATE: October 3, 2022

TARRANT COUNTY, TEXAS
 BENTLEY BRIDGE DRIVE
INDEX & LEGENDS
 DA PROJECT 20011609.033
 SHEET 2



UTILITY NOTE:
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PROJECT BENCHMARK:
 "X" CUT ON THE TOP OF CURB ON THE NORTH CURB LINE OF HIGHLAND HILLS DRIVE, APPROXIMATELY 44 FEET NORTHWEST OF THE INTERSECTION OF THE SOUTHEAST CORNER OF LOT 3, BLOCK 2, WALSH RANCH ADDITION AND THE NORTHEAST TERMINUS OF HIGHLAND HILLS DRIVE AND APPROXIMATELY 60 FEET NORTHWEST OF A SANITARY SEWER MANHOLE FOUND IN A CONCRETE TURNAROUND.
 ELEVATION = 855.05'

SITE BENCHMARK:
 "X" CUT INTO THE TOP OF CURB ON THE SOUTH SIDE OF SERVICE ROAD ON THE SIDE OF EAST INTERSTATE HIGHWAY 30 AT THE INTERSECTION.
 ELEVATION = 897.76'

COORDINATES WERE DERIVED FROM THE TEXAS COORDINATE SYSTEM, NORTH CENTRAL ZONE #202 ACCORDING TO THE GPS REFERENCE NETWORK.

NOTES:

1. PORTION OF PROJECT IS WITHIN TXDOT RIGHT OF WAY. CONTRACTOR IS RESPONSIBLE FOR PERMITTING AND ACCESS COORDINATION.
2. ANTICIPATED CONSTRUCTION TIMELINE OF I-20 AND BENTLEY BRIDGE DRIVE INTERCHANGE, TO BE CONSTRUCTED BY TXDOT (CSJ# 0008-03-094), IS MAY 2023 THROUGH DECEMBER 2024. CONTRACTOR SHALL COORDINATE PROPOSED BENTLEY BRIDGE DRIVE PROJECT WITH TXDOT AND THEIR CONTRACTORS.

BENTLEY BRIDGE DRIVE								
TAG NUMBER	LENGTH	RADIUS	BEARING	START STATION	END STATION	DELTA	START NORTHING, EASTING	END NORTHING, EASTING
C1	151.08'	1000.00		8+69.64	10+20.72	8.66	6932912.44, 2264570.13	6933062.95, 2264581.53
L1	1173.51'		N0°00'00.00"E	10+20.72	21+94.23		6933062.95, 2264581.53	6934236.46, 2264581.53
C2	236.43'	14000.00		21+94.23	24+30.66	0.97	6934236.46, 2264581.53	6934472.88, 2264579.53
L2	1656.01'		N0°58'03.32"W	24+30.66	40+86.67		6934472.88, 2264579.53	6936128.65, 2264551.56
C3	55.50'	1000.00		40+86.67	41+42.17	3.18	6936128.65, 2264551.56	6936184.14, 2264552.16
L3	1178.42'		N2°12'38.25"E	41+42.17	53+20.58		6936184.14, 2264552.16	6937361.68, 2264597.62

ALEDO ROAD CONNECTOR								
TAG NUMBER	LENGTH	RADIUS	BEARING	START STATION	END STATION	DELTA	START NORTHING, EASTING	END NORTHING, EASTING
L4	1305.34'		N8°39'22.92"E	63+58.79	76+64.13		6931559.59, 2264677.75	6932850.07, 2264874.21
C4	387.42'	225.00		76+64.13	80+51.55	98.66	6932850.07, 2264874.21	6933108.93, 2264651.77
L5	70.25'		N90°00'00.00"W	80+51.55	81+21.80		6933108.93, 2264651.77	6933108.93, 2264581.53

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 PLOTTED DATE: October 03, 2022
 PLOTTED AT: 7:57:58 PM

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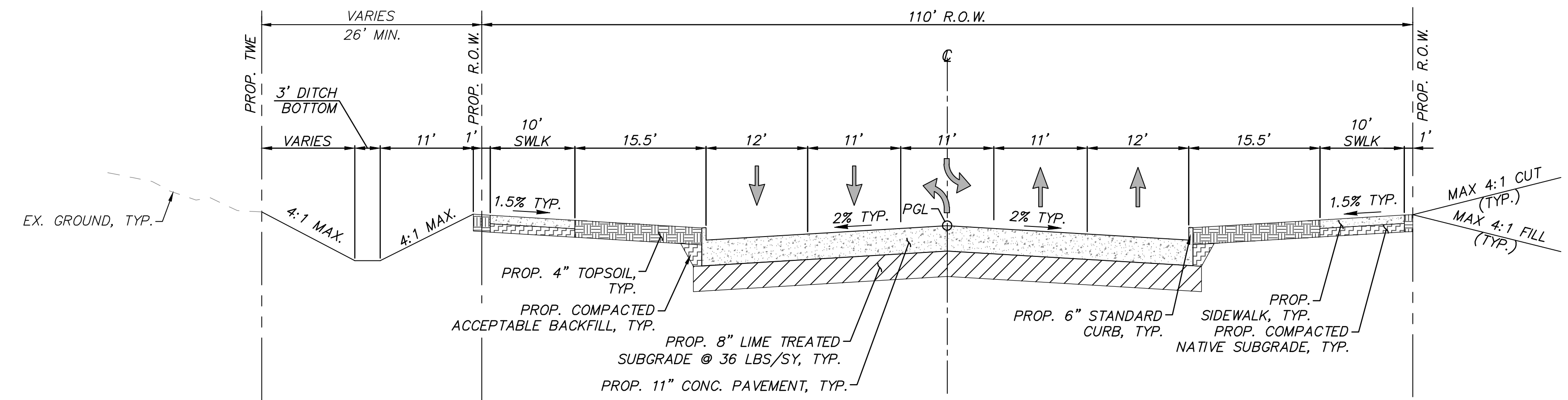
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 QUINTEN D. PLUMER
 P.E.# 138475 DATE: October 3, 2022

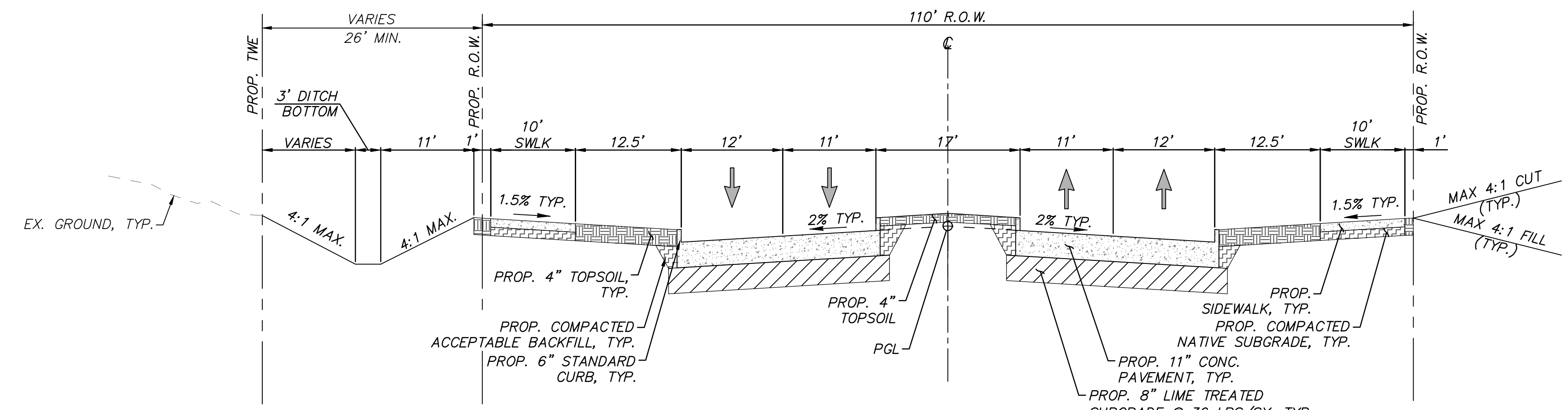
TARRANT COUNTY, TEXAS	DA PROJECT 2001169.033
BENTLEY BRIDGE DRIVE	SHEET
ALIGNMENT LAYOUT	3

NOTE:
PAVEMENT AND SUBGRADE SECTIONS SHOWN ARE FOR REFERENCE ONLY. FINAL PAVEMENT THICKNESS AND SUBGRADE MODIFICATION SHALL BE CONTINGENT ON GEOTECHNICAL INVESTIGATIONS AND DESIGN TO BE COORDINATED BY CONTRACTOR.



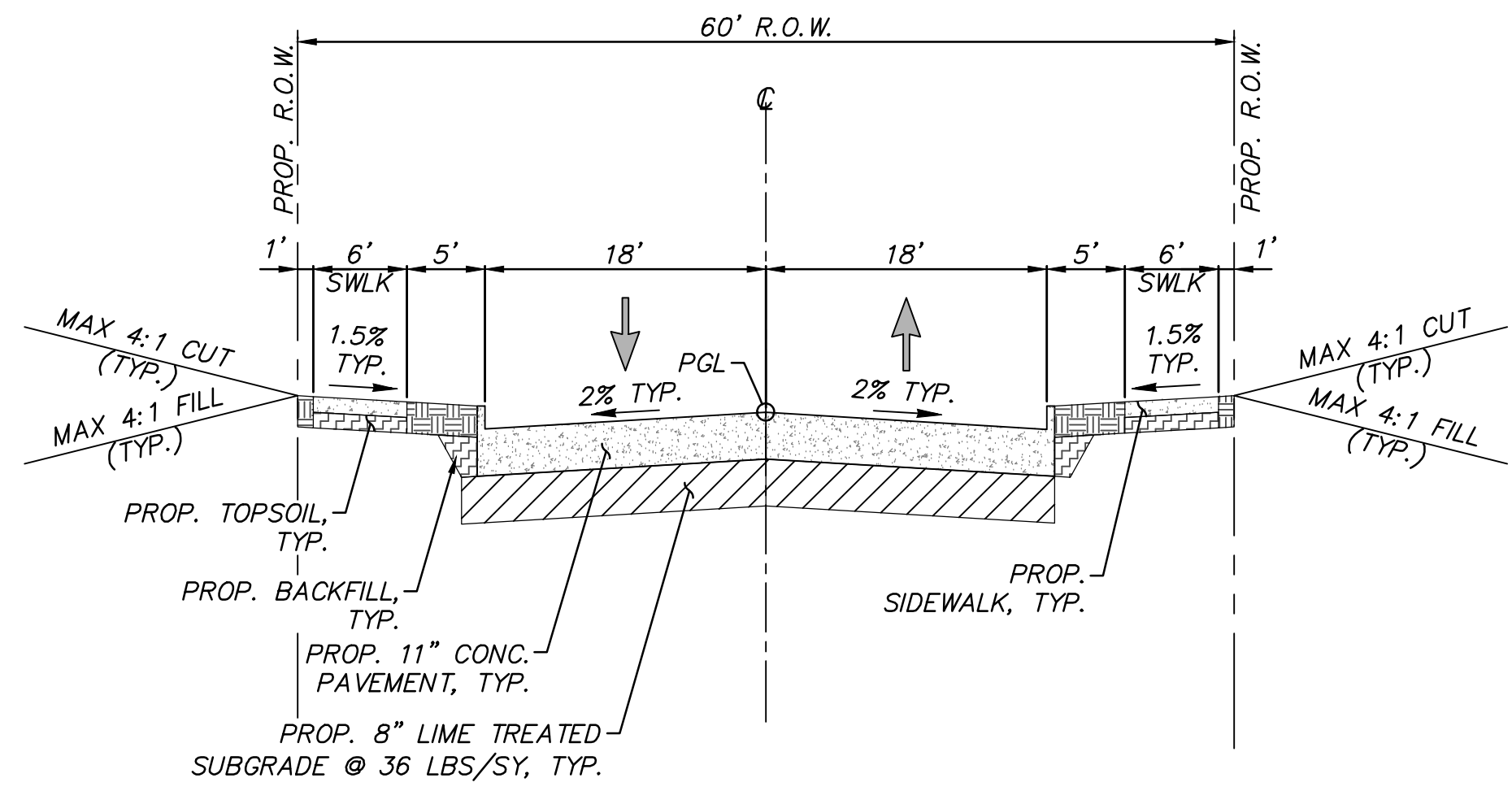
BENTLEY BRIDGE DRIVE - TYPICAL SECTION 1
STA 10+00 TO STA 43+10

N. T. S.



BENTLEY BRIDGE ROAD - TYPICAL SECTION 2
STA 43+10 TO STA 51+66.81

N. T. S.



ALEDO CONNECTOR RD

N. T. S.

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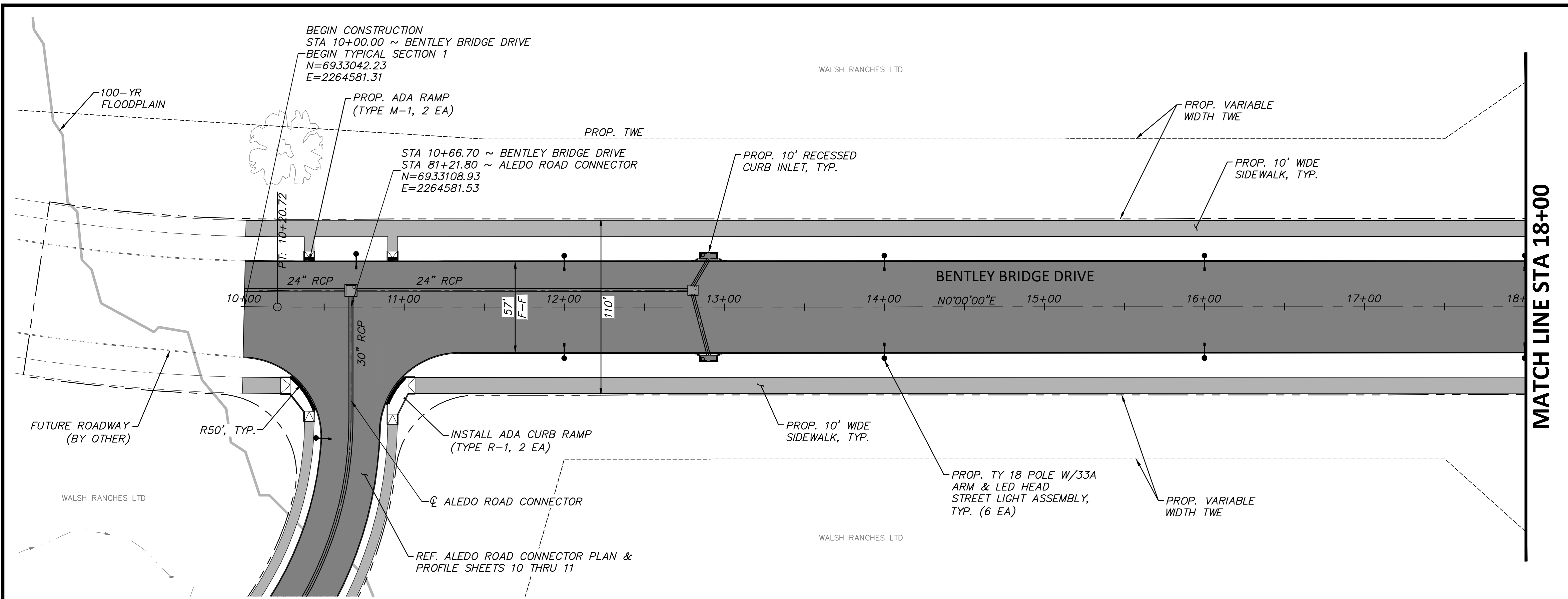
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BENTLEY BRIDGE DRIVE	SHEET
TYPICAL SECTIONS	4

UTILITY NOTE:

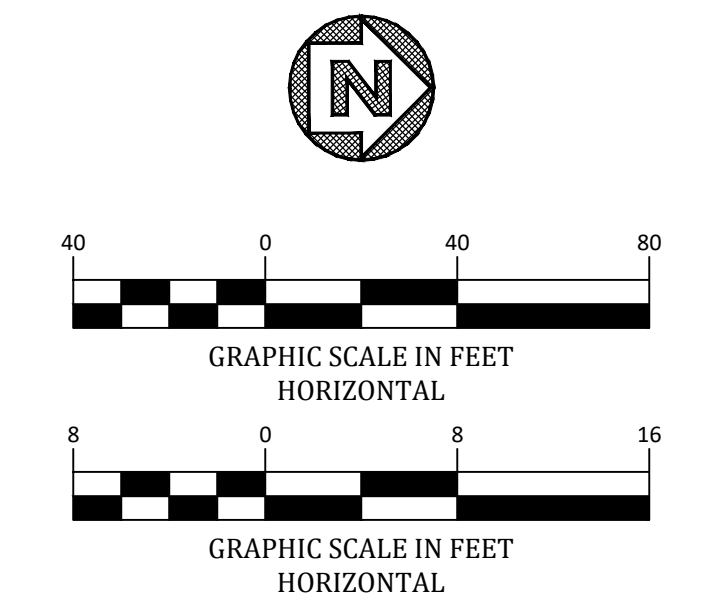
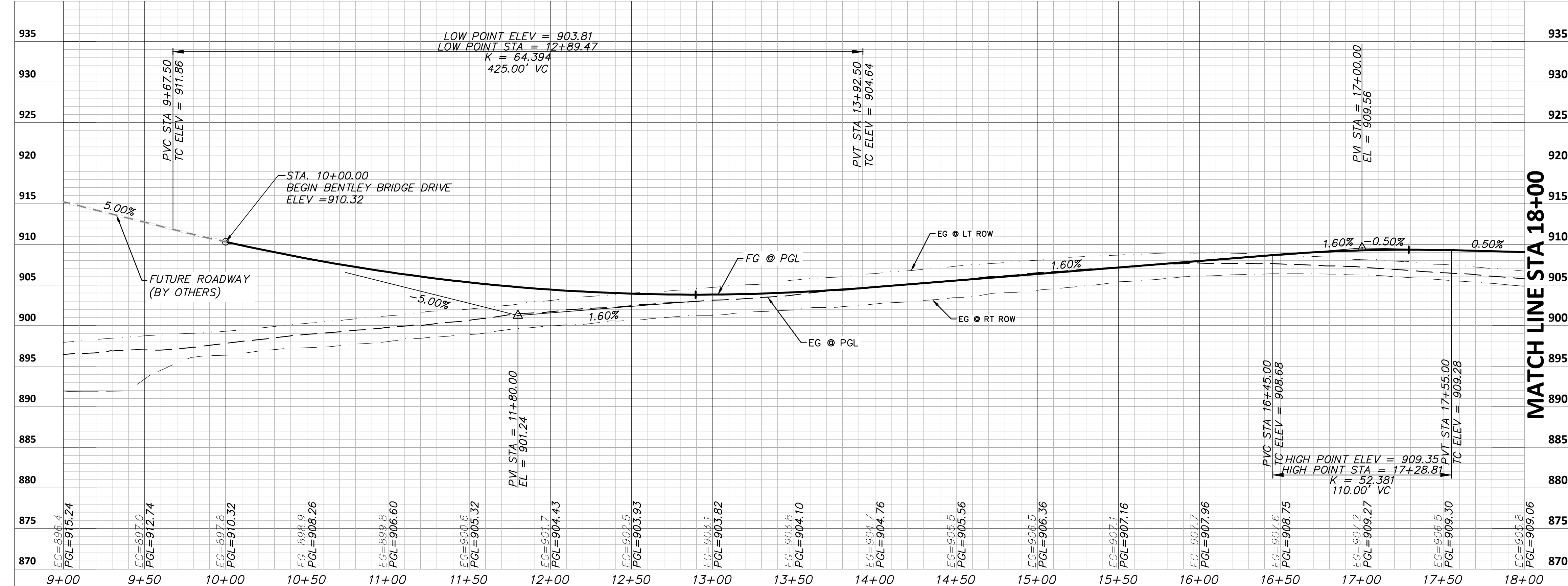
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- NOTE:**
- ALL STORM DRAIN LATERALS SHALL BE 24" CLASS III RCP.
 - ALL CURB INLETS SHALL BE 10' RECESSED, UNLESS INDICATED OTHERWISE.



BENTLEY BRIDGE DRIVE



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HORIZ 1" = 40'	OCTOBER 2022
VERT 1" = 8'	

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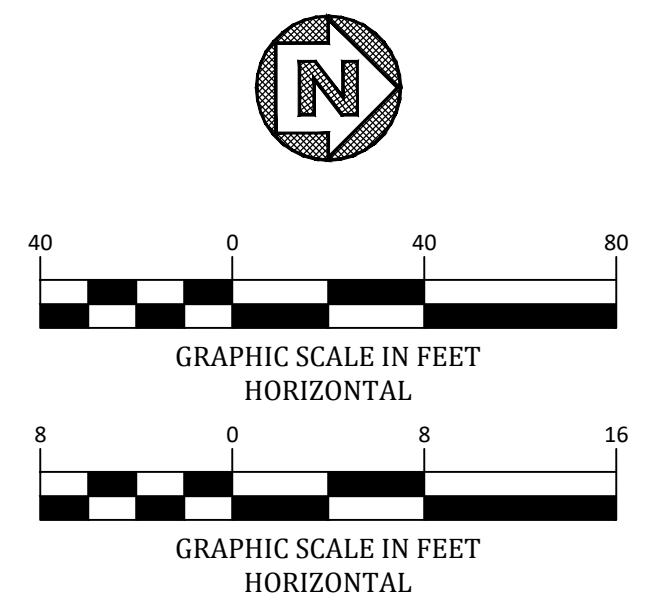
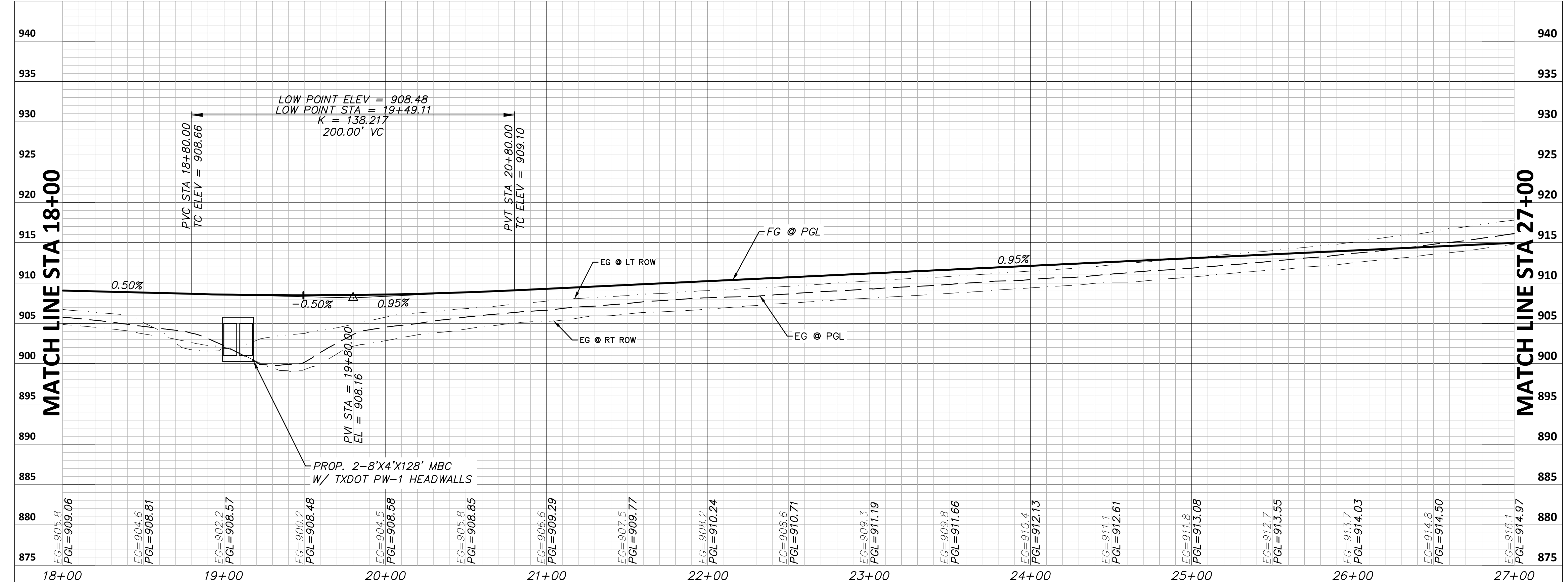
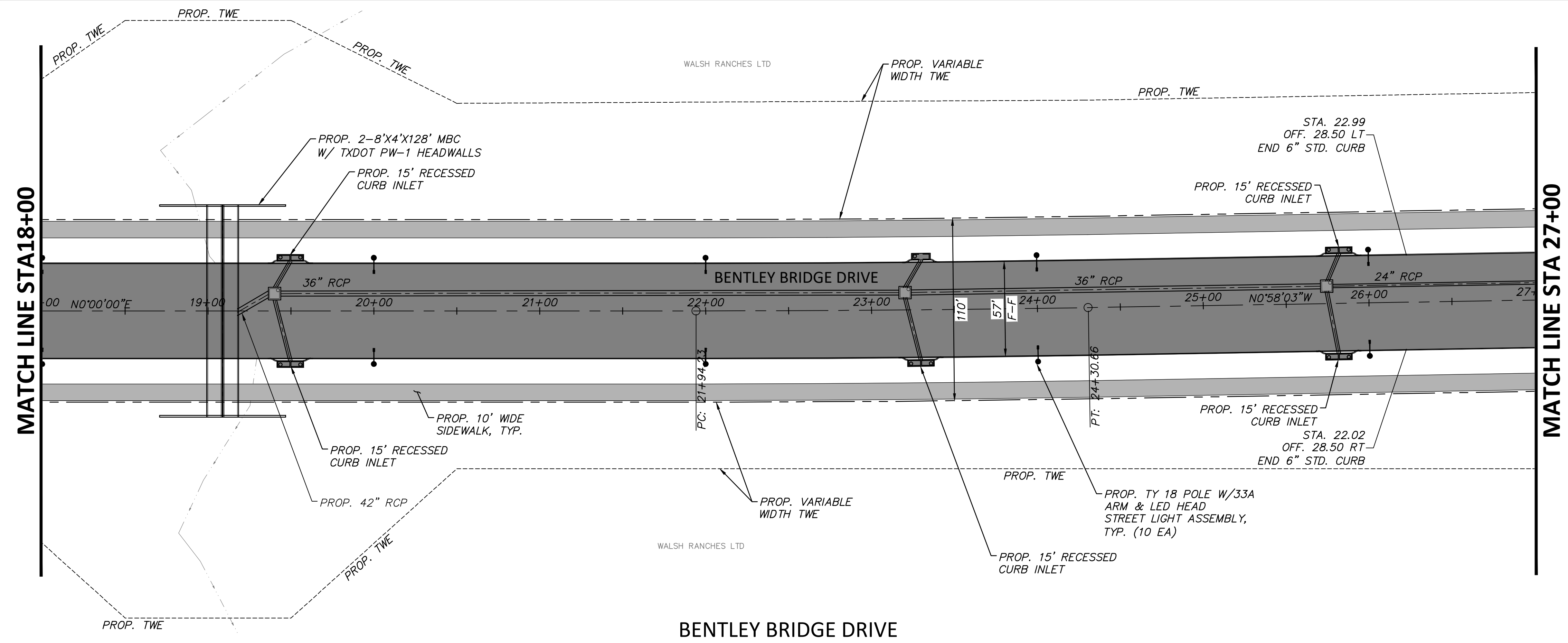
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TARRANT COUNTY, TEXAS	DA PROJECT 2001169.033
BENTLEY BRIDGE DRIVE	SHEET
PAVING PLAN & PROFILE - BENTLEY BRIDGE DR STA 10+00 TO STA 18+00	5

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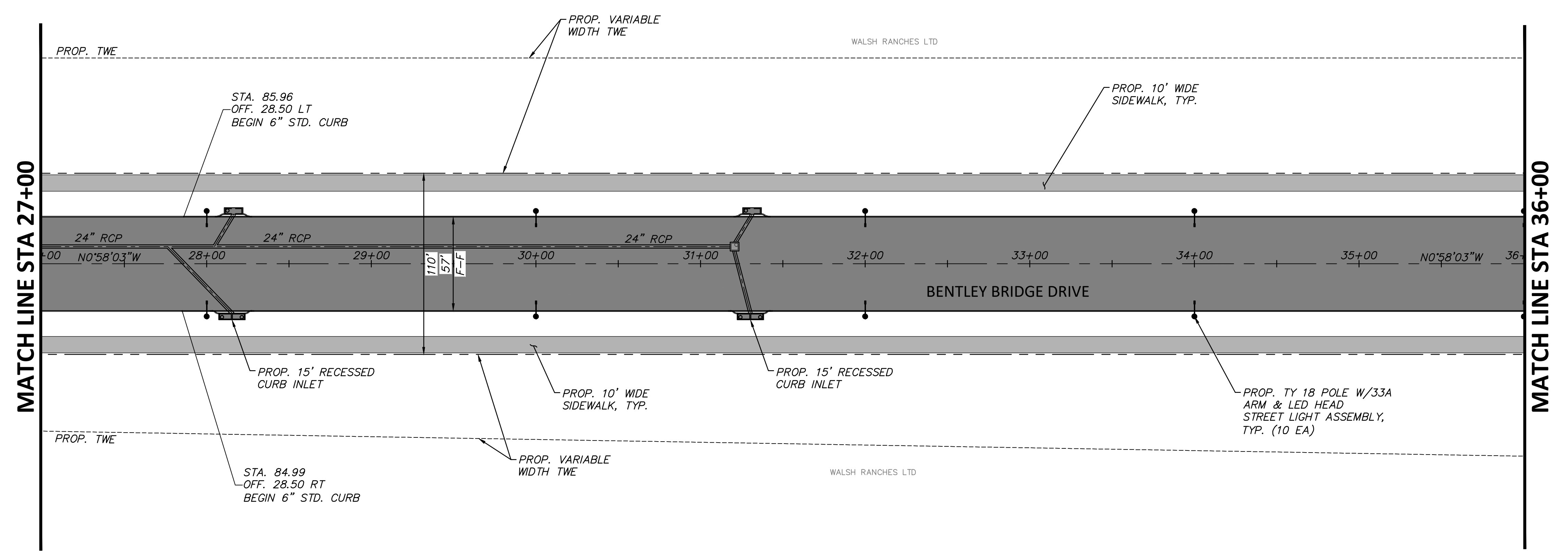
QUINTEEN D. PLUMER
 P.E.# 138475 DATE: October 3, 2022

TARRANT COUNTY, TEXAS	DA PROJECT 2001169.033
BENTLEY BRIDGE DRIVE	SHEET
PAVING PLAN & PROFILE - BENTLEY BRIDGE DR STA 18+00 TO STA 27+00	6

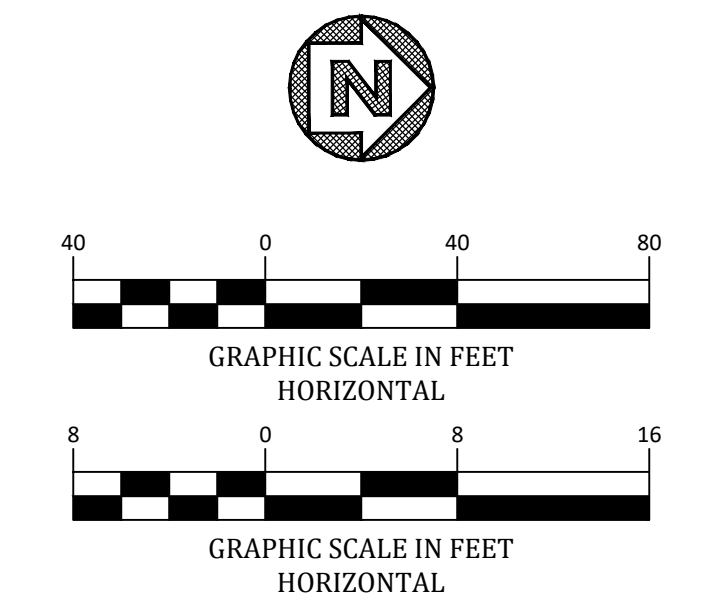
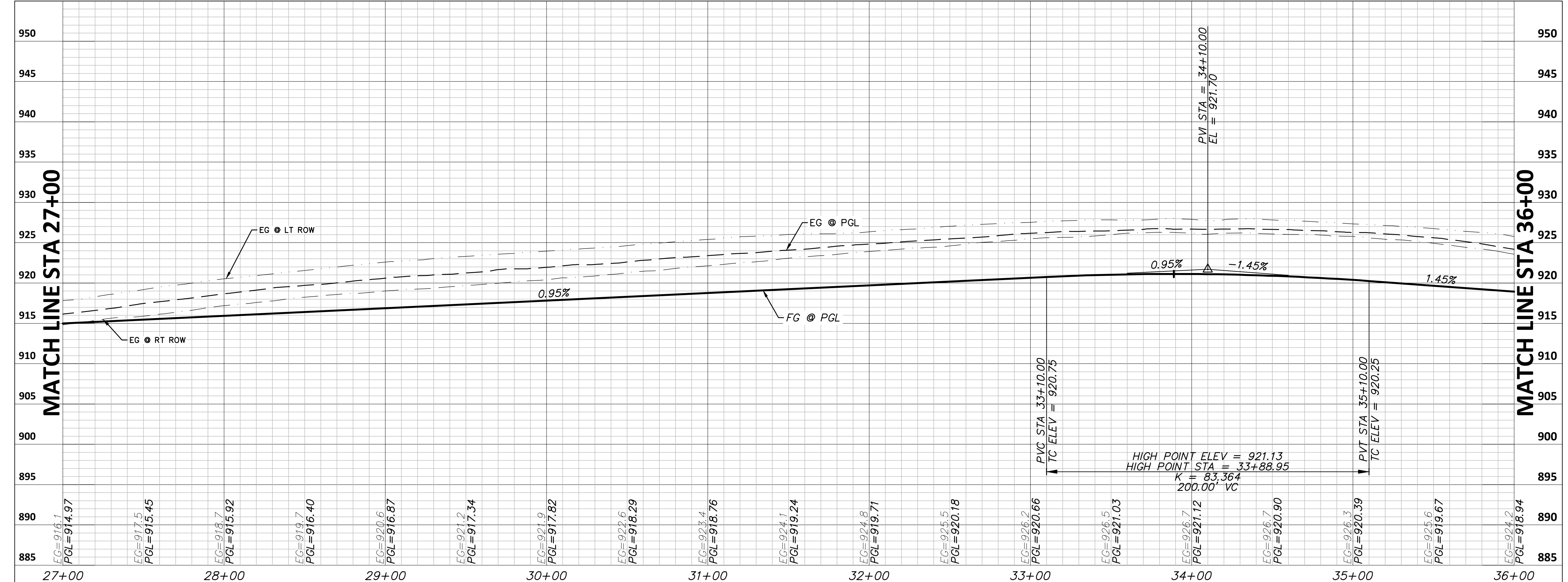
UTILITY NOTE:
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FORT WORTH WATER DEPT	(817) 392-8296
FORT WORTH TPW	(817) 392-8100
TEXAS 811 (LOCATING SERVICE)	811
CHARTER COMMUNICATIONS (TV CABLE)	(888) 438-2427
MCI (OWNER OF WESTERN UNION LINES)	(800) 624-9675
AT&T	(817) 338-6202
FRONTIER	(800) 921-8102
ATMOS ENERGY	(800) 817-8090
ONCOR ELECTRIC DELIVERY	(888) 313-6862

- NOTE:**
- ALL STORM DRAIN LATERALS SHALL BE 24" CLASS III RCP.
 - ALL CURB INLETS SHALL BE 10' RECESSED, UNLESS INDICATED OTHERWISE.



BENTLEY BRIDGE DRIVE



FILE PATH: G:\Production\PlannedCommunity\2001169\2001169\Engineering\033 Bentley Road Schematic\Civil\Drawings\Plan\Sheet\Road\2001169\169.dwg
 PLOTTER: HP DesignJet 5000 Series
 PLOTTED BY: Quinten Plumer
 PLOTTED AT: 10/3/2022 10:52:59 AM

NO.	REVISION	BY	DATE	CHECKED

QDP	DESIGNED
JDW	DRAWN
LAM	CHECKED



SCALE	DATE
HORIZ 1" = 40'	OCTOBER 2022
VERT 1" = 8'	

DUNAWAY
 550 Bailey Avenue • Suite 400 • Fort Worth, Texas 76107
 Tel: 817.335.1121
 (TX REG. F-1114)

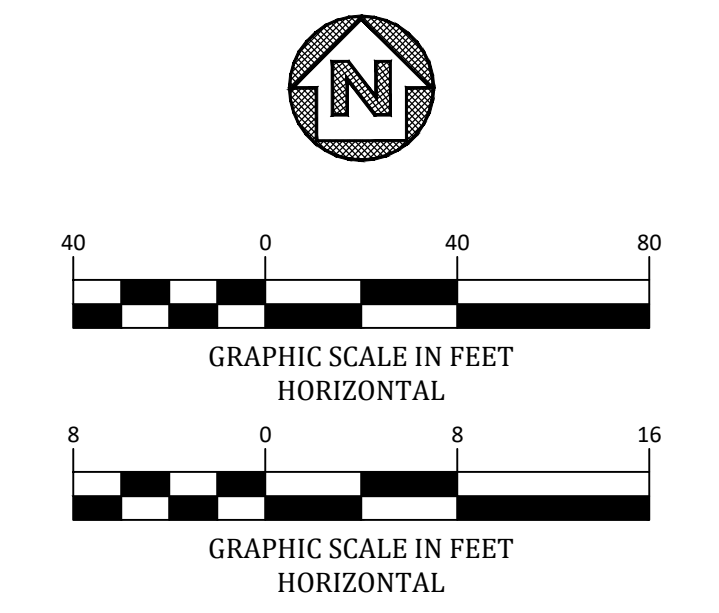
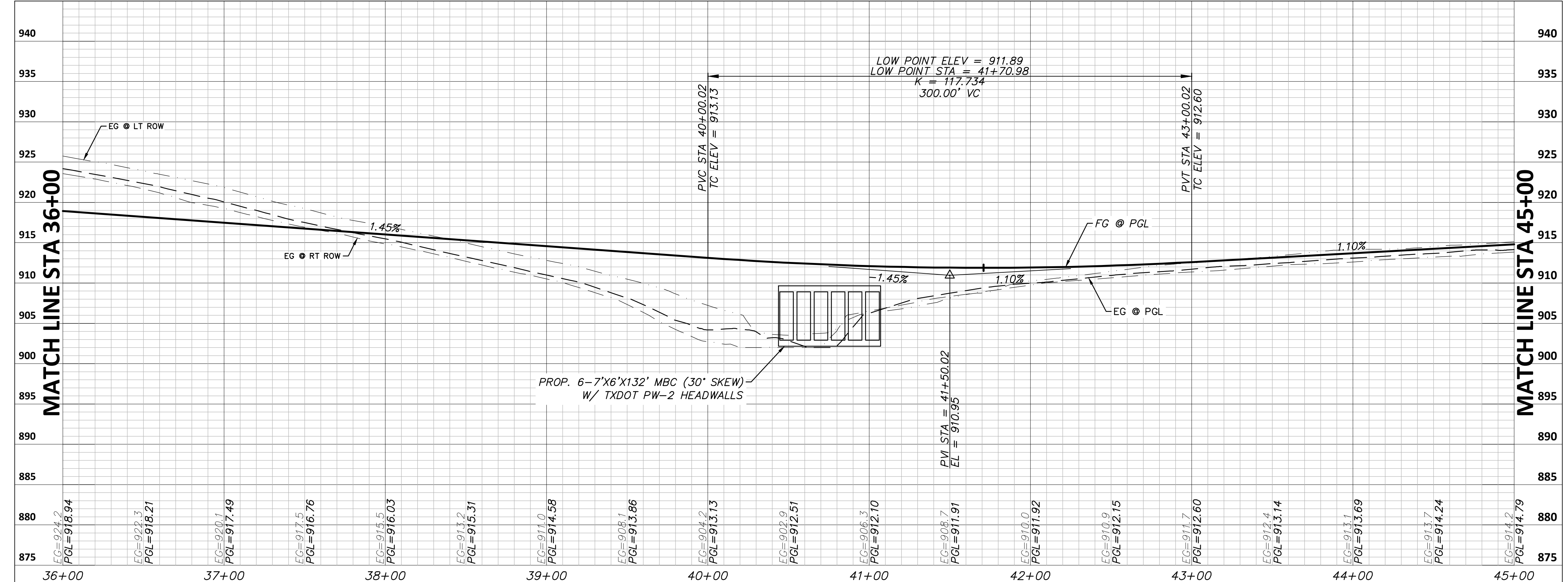
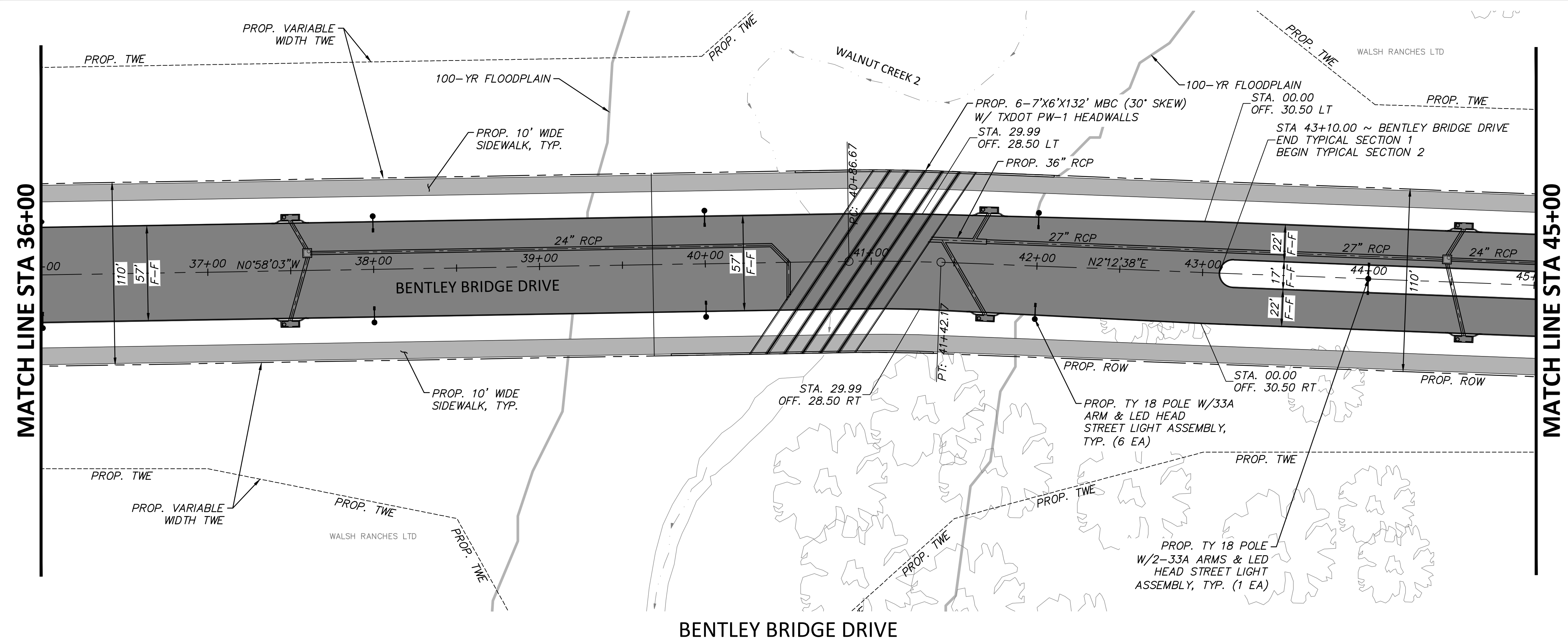
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 QUINTEN D. PLUMER
 P.E.# 138475 DATE: October 3, 2022

TARRANT COUNTY, TEXAS	DA PROJECT 2001169.033
BENTLEY BRIDGE DRIVE	SHEET
PAVING PLAN & PROFILE - BENTLEY BRIDGE DR STA 27+00 TO STA 36+00	7

UTILITY NOTE:
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FORT WORTH TPW	(817) 392-8100
TEXAS 811 (LOCATING SERVICE)	811
CHARTER COMMUNICATIONS (TV CABLE)	(888) 438-2427
MCI (OWNER OF WESTERN UNION LINES)	(800) 624-9675
AT&T	(817) 338-6202
FRONTIER	(800) 921-8102
ATMOS ENERGY	(800) 817-8090
ONCOR ELECTRIC DELIVERY	(888) 313-6862

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 - ALL CURB INLETS SHALL BE 10' RECESSED, UNLESS INDICATED OTHERWISE.



FILE PATH: G:\Production\PlannedCommunity\2001169\033 Bentley Bridge Drive\Drawings\Plan\Bentley Bridge Drive STA 36+00 STA 45+00.dwg
 PLOTTER: HP DesignJet 5000 Series
 PLOTTED BY: QUINTEEN PLUMER
 PLOTTED AT: 10/3/2022 10:52:58 AM

NO.	REVISION	BY	DATE	CHECKED

QDP	DESIGNED	JDW	DRAWN	LAM	CHECKED
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SCALE	DATE
HORIZ 1" = 40'	OCTOBER 2022
VERT 1" = 8'	

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 QUINTEEN D. PLUMER
 P.E.# 138475 DATE: October 3, 2022

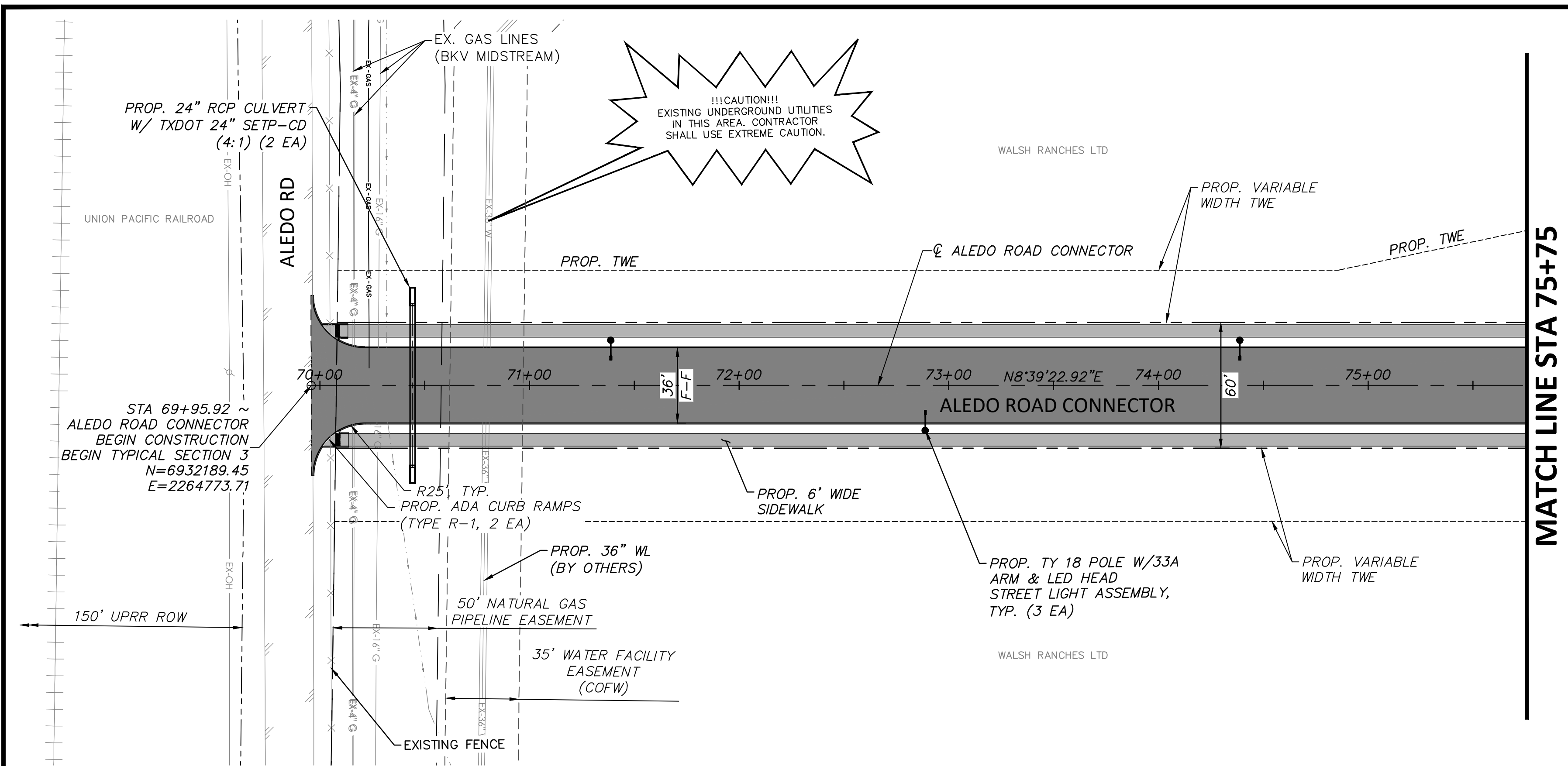
TARRANT COUNTY, TEXAS
BENTLEY BRIDGE DRIVE
PAVING PLAN & PROFILE - BENTLEY BRIDGE DR
STA 36+00 TO STA 45+00

DA PROJECT	2001169.033
SHEET	8

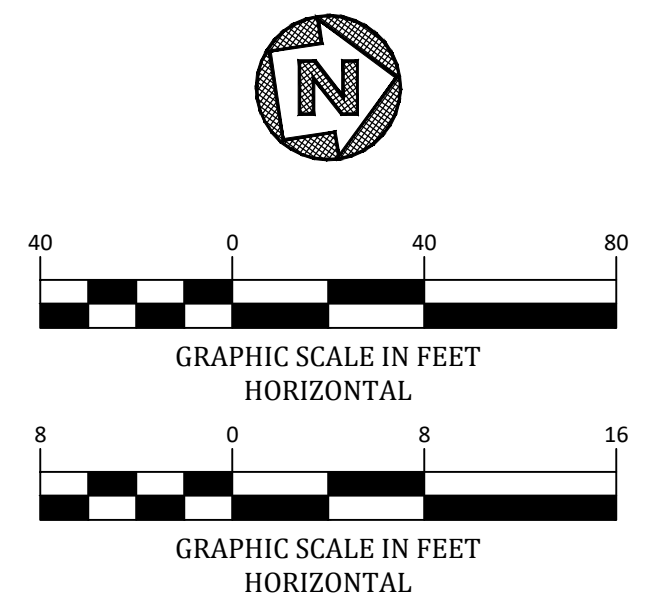
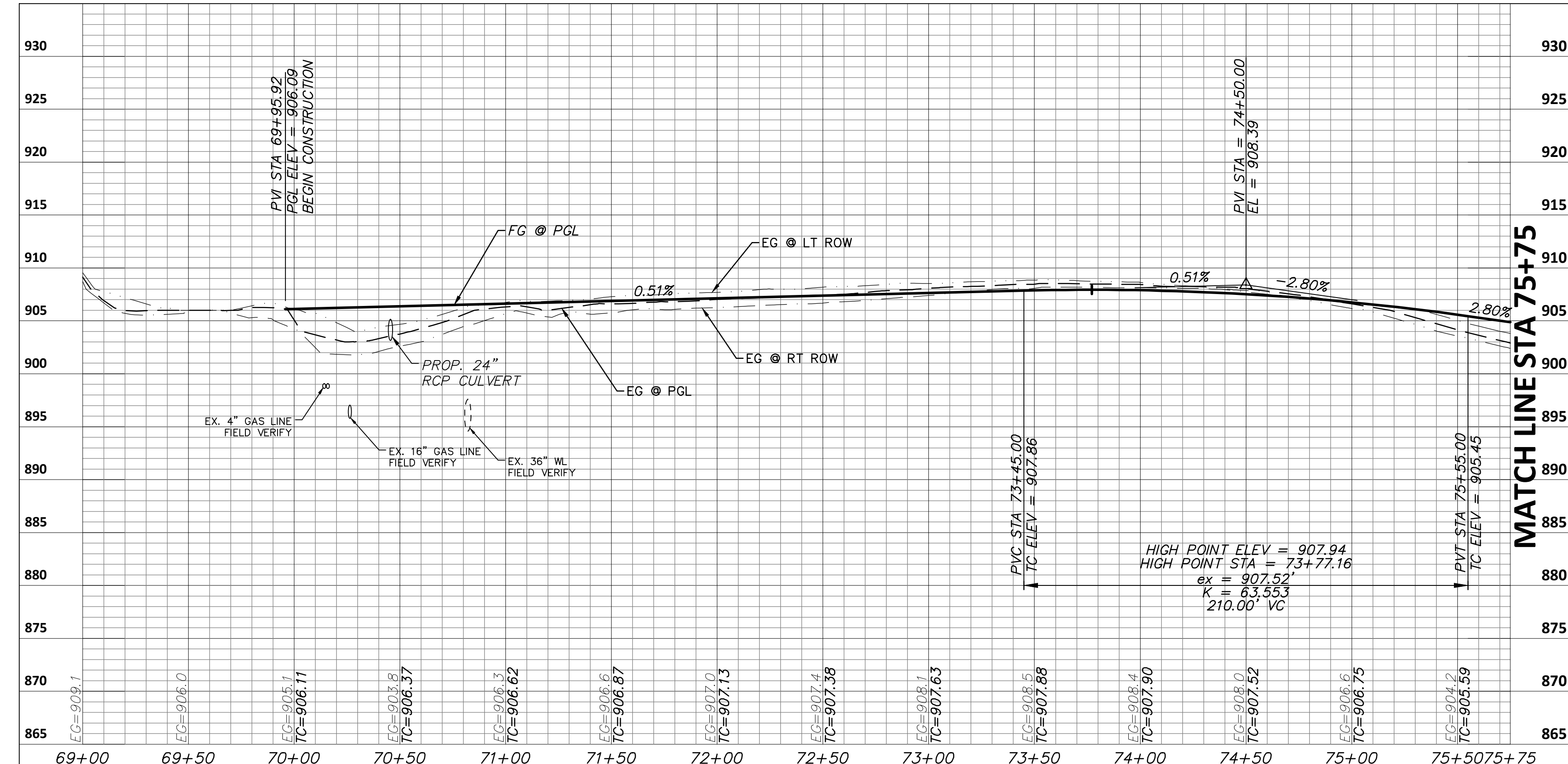
UTILITY NOTE:
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MCI (OWNER OF WESTERN UNION LINES)	(800) 624-9675
AT&T	(817) 338-6202
FRONTIER	(800) 921-8102
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ONCOR ELECTRIC DELIVERY	(888) 313-6862

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ALEDO ROAD CONNECTOR



FILE PATH: G:\Production\PlannedCommunity\2001169\Bentley Bridge Drive\Drawings\Plan\Aledo Road Connector.dwg
 PLOTTER: HP DesignJet 5000 Plotter
 PLOTTED AT: 10/3/2022 10:58:38 AM

NO.	REVISION	BY	DATE

QDP	DESIGNED	JDW	DRAWN	LAM	CHECKED
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SCALE	DATE
HORIZ 1" = 40'	OCTOBER 2022
VERT 1" = 8'	

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QUINTEN D. PLUMER
 P.E.# 138475 DATE: October 3, 2022

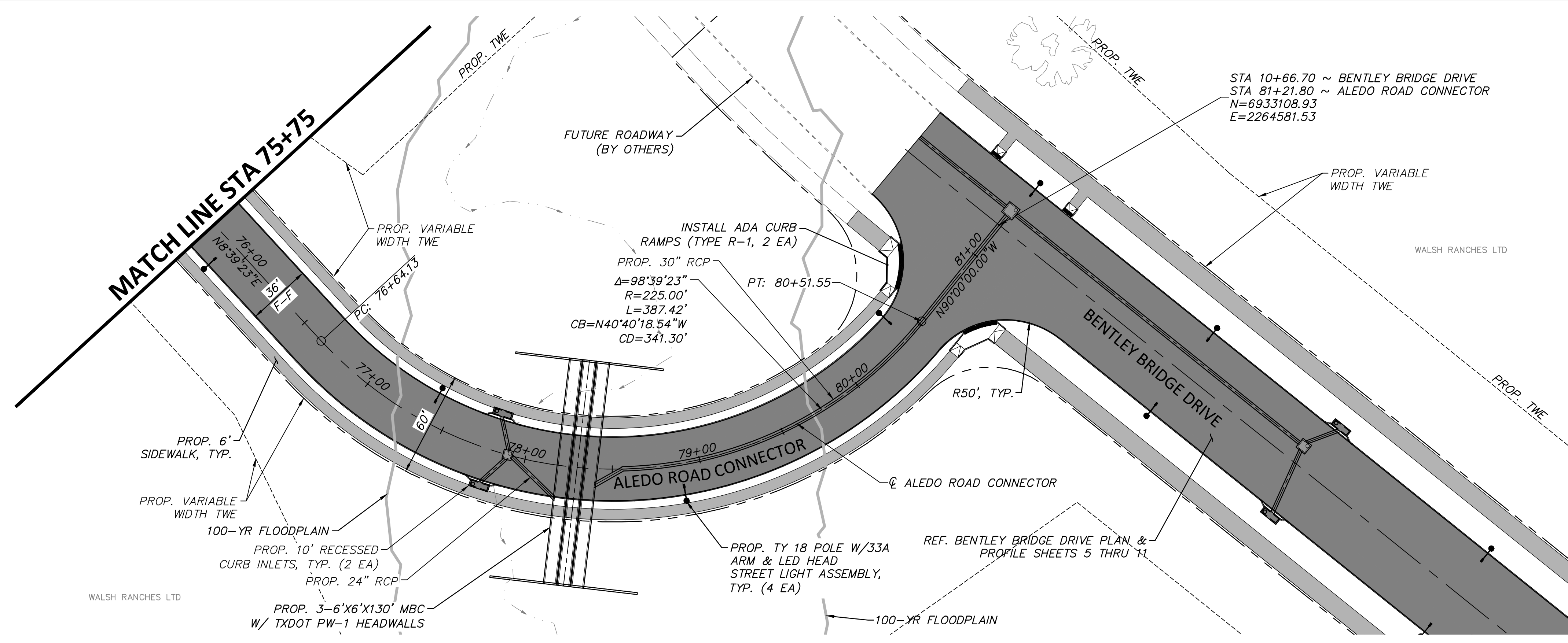
TARRANT COUNTY, TEXAS	DA PROJECT 2001169.033
BENTLEY BRIDGE DRIVE	SHEET
PAVING PLAN & PROFILE - ALEDO RD CONN STA 70+00 TO STA 77+00	10

UTILITY NOTE:
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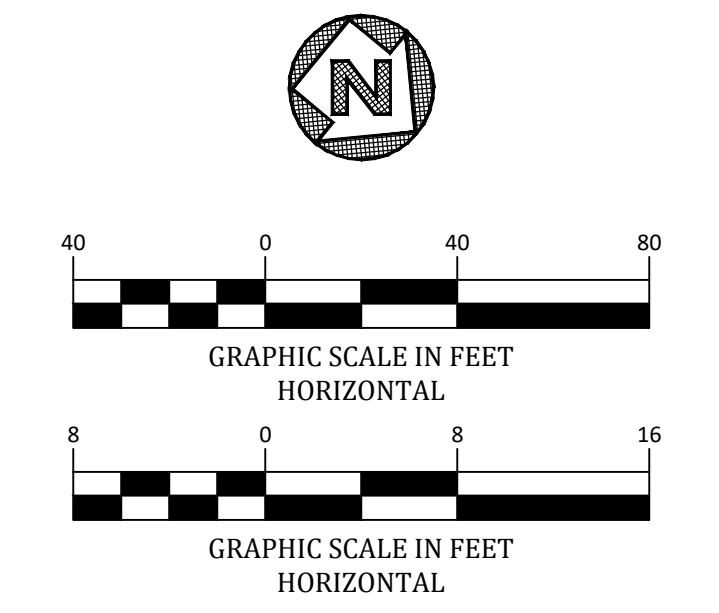
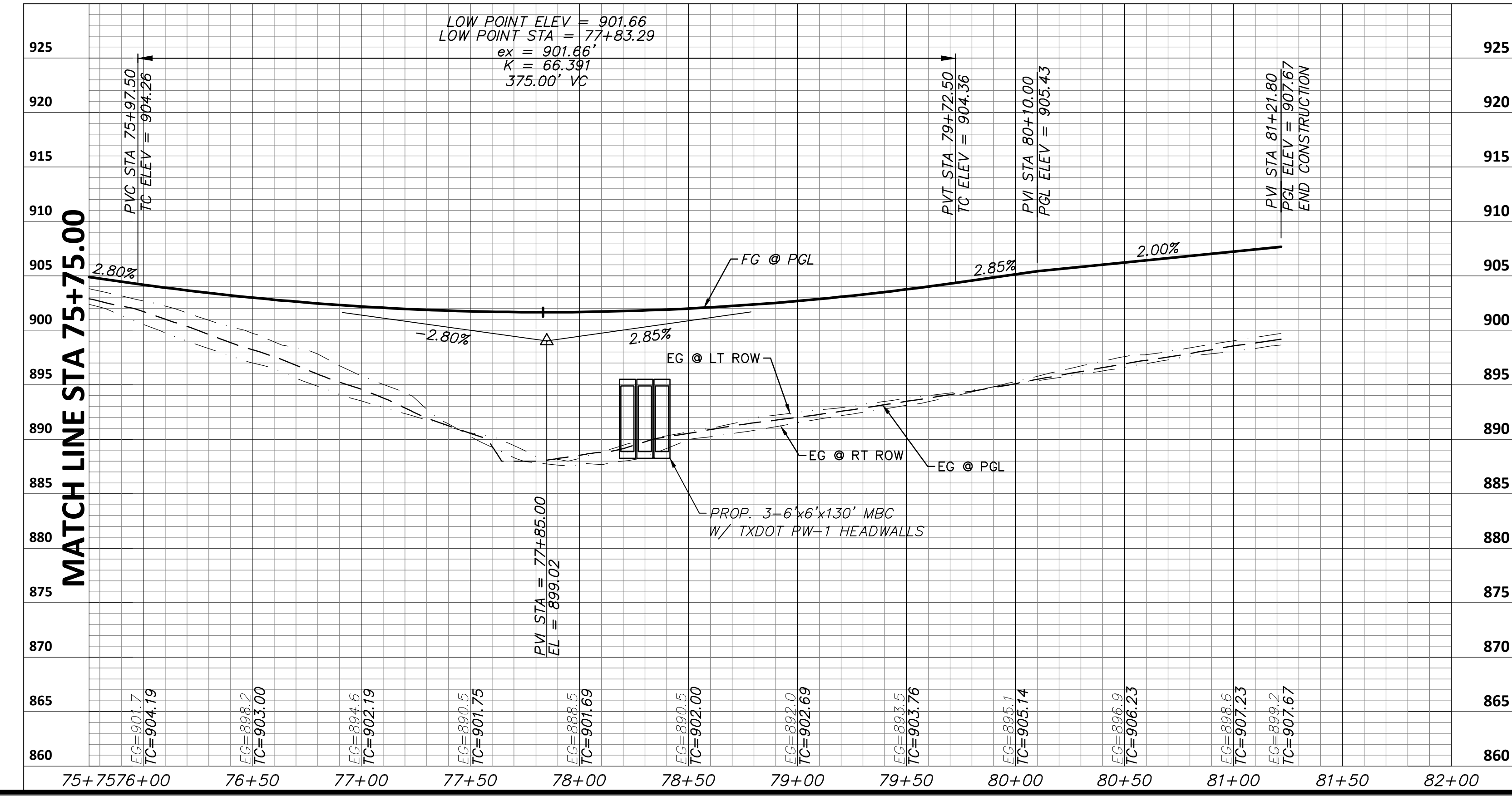
FORT WORTH WATER DEPT	(817) 392-8296
FORT WORTH TPW	(817) 392-8100
TEXAS 811 (LOCATING SERVICE)	811
CHARTER COMMUNICATIONS (TV CABLE)	(888) 438-2427
MCI (OWNER OF WESTERN UNION LINES)	(800) 624-9675
AT&T	(817) 338-6202
FRONTIER	(800) 921-8102
ATMOS ENERGY	(800) 817-8090
ONCOR ELECTRIC DELIVERY	(888) 313-6862

NOTE:

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ALEDO ROAD CONNECTOR



FILE PATH: G:\Production\PlannedCommunity\2001169.033 Bentley Road Schematic\Drawings\Plan Sheets\Road\2001169.033-H111.dwg
 PLOTTER: HPGL2 PLOTTER: 10/3/2022 10:00:00 AM
 PLOTTED BY: QUINTEEN PLUMER
 PLOTTED AT: 7:58:38 PM

NO.	REVISION	BY	DATE	CHECKED

QDP	DESIGNED	JDW	DRAWN	LAM	CHECKED
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SCALE	DATE
HORIZ 1" = 40'	OCTOBER 2022
VERT 1" = 8'	

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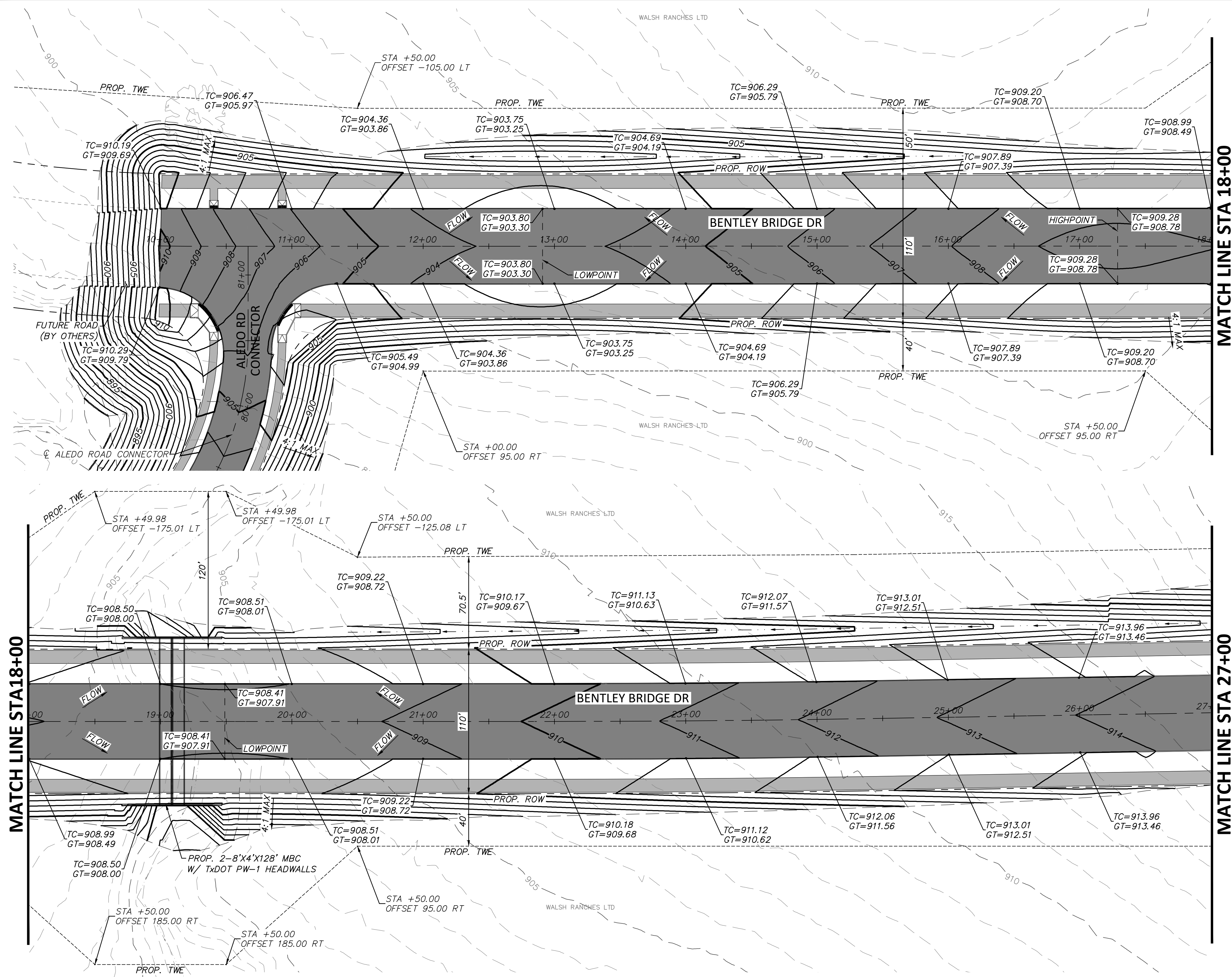
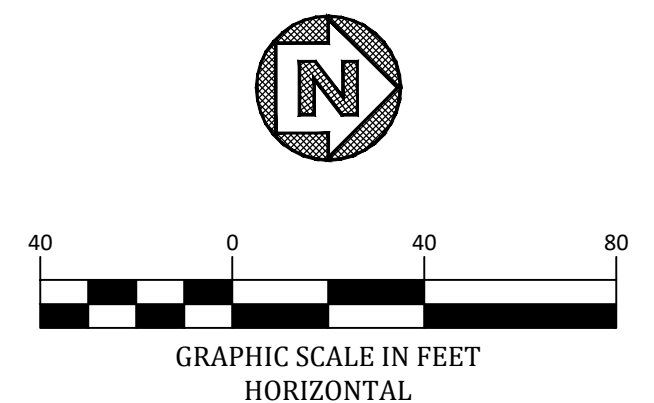
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 P.E.# 138475 DATE: October 3, 2022

TARRANT COUNTY, TEXAS		DA PROJECT 2001169.033
BENTLEY BRIDGE DRIVE		SHEET
PAVING PLAN & PROFILE - ALEDO RD CONN STA 77+00 TO STA 81+21.80		11

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FORT WORTH TPW	(817) 392-8100
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MCI (OWNER OF WESTERN UNION LINES)	(800) 624-9675
AT&T	(817) 338-6202
FRONTIER	(800) 921-8102
ATMOS ENERGY	(800) 817-8090
ONCOR ELECTRIC DELIVERY	(888) 313-6862

GRADING LEGEND	
	EXISTING MAJOR CONTOUR (5 FT)
	EXISTING MINOR CONTOUR (1 FT)
	PROPOSED MAJOR CONTOUR (5 FT)
	PROPOSED MINOR CONTOUR (1 FT)
	EXISTING STORM DRAIN
	FUTURE STORM DRAIN
	PROPOSED STORM
	STORMWATER FLOW DIRECTION
	CHANNEL FLOWLINE
	TOP OF CUT/TOE OF SLOPE
	PROPOSED GRADE SLOPES



FULL PATH: G:\Production\PlannedCommunity\2001169\033 Bentley Road Schmatic\Civil\Drawings\Plan Sheets\Grading\033-169-001.dwg
 FILENAME: 033-169-001.dwg
 PLOTTED BY: Chaitin
 PLOTTED DATE: 10/03/2022
 PLOTTED AT: 7:53:28 PM

NO.	REVISION	BY	DATE

QDP	DESIGNED	JDW	DRAWN	LAM	CHECKED
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SCALE	DATE
HORIZ 1" = 40'	OCTOBER 2022
VERT 1" = 8'	

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 Tel: 817.335.1121
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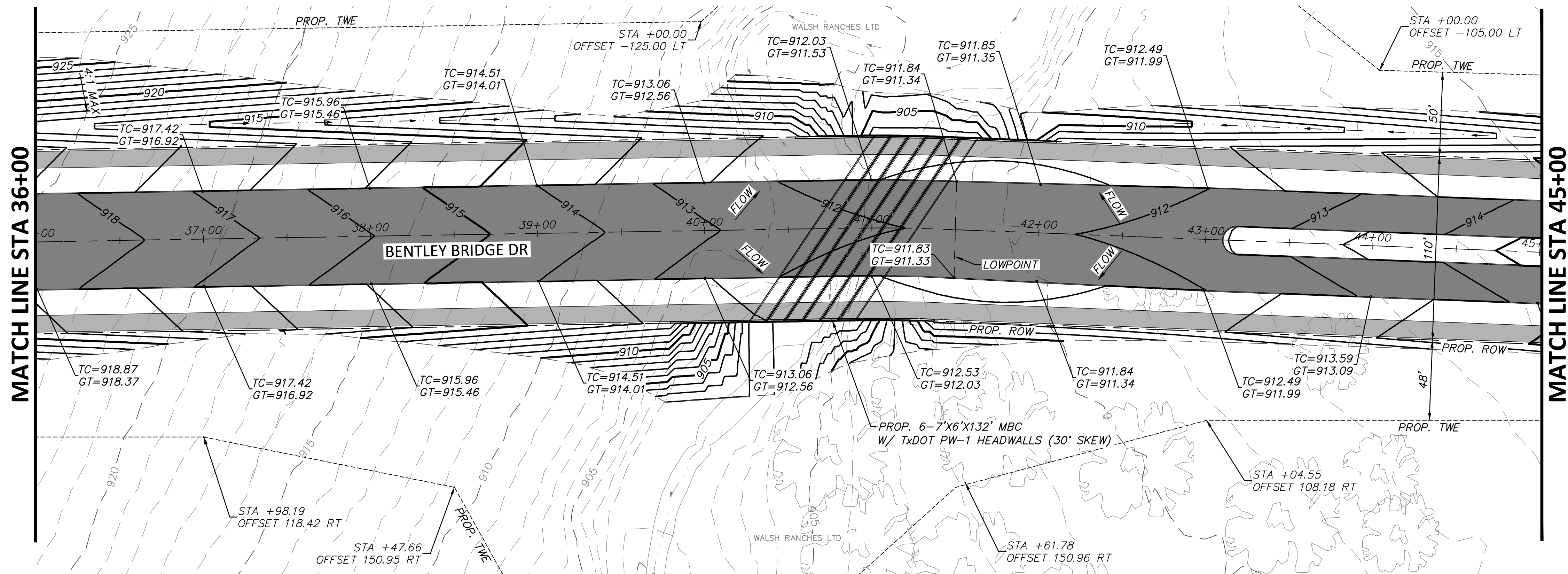
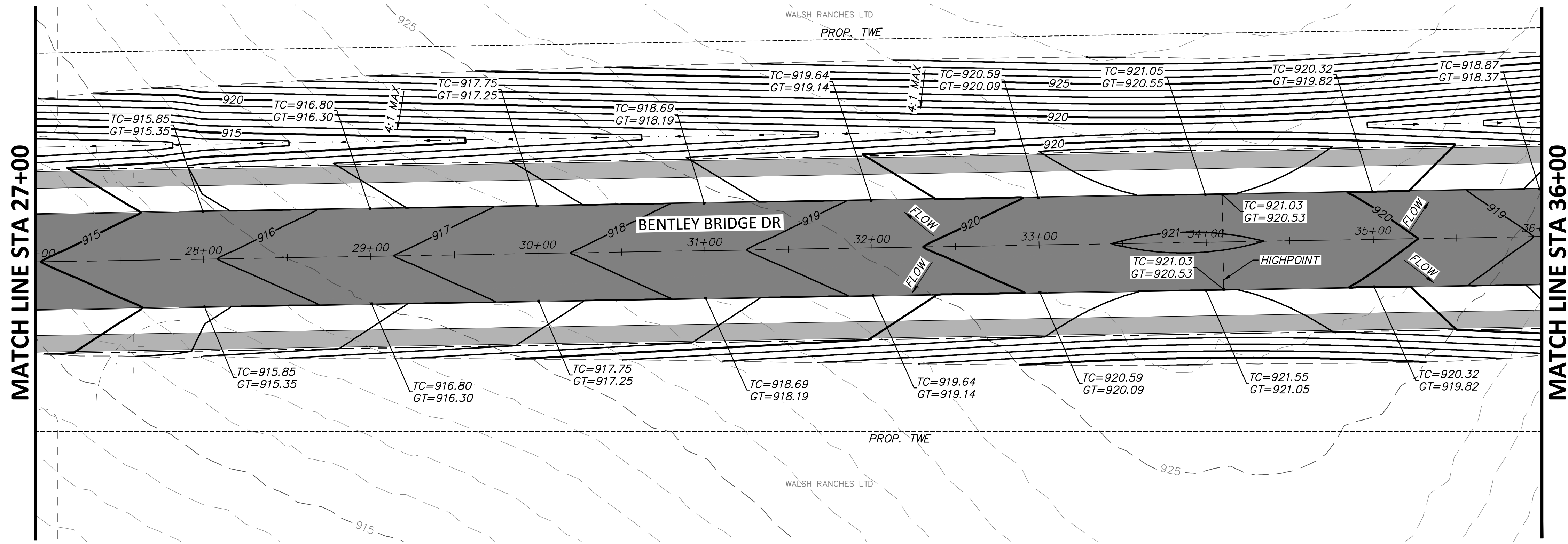
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QUINTEN D. PLUMER
 P.E.# 138475 DATE: October 3, 2022

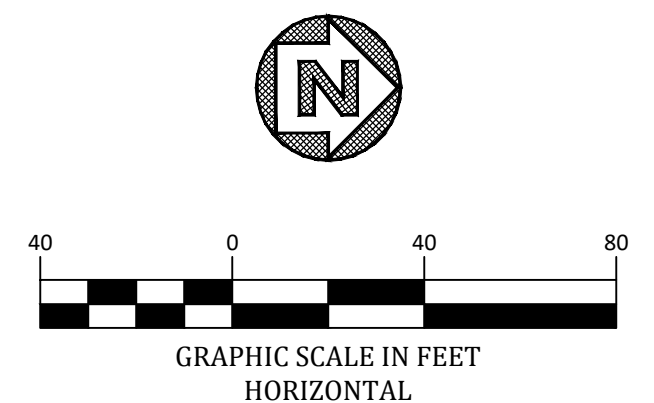
TARRANT COUNTY, TEXAS	DA PROJECT 2001169.033
BENTLEY BRIDGE DRIVE	SHEET
GRADING PLAN - BENTLEY BRIDGE DR STA 10+00 TO STA 27+00	12

UTILITY NOTE:
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 TEXAS 811 (LOCATING SERVICE) 811
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 AT&T (817) 538-6202
 FRONTIER (800) 921-8102
 ATMOS ENERGY (800) 817-8090
 ONCOR ELECTRIC DELIVERY (888) 313-6862



GRADING LEGEND	
--- 600 ---	EXISTING MAJOR CONTOUR (5 FT)
--- 605 ---	EXISTING MINOR CONTOUR (1 FT)
---	PROPOSED MAJOR CONTOUR (5 FT)
---	PROPOSED MINOR CONTOUR (1 FT)
---	EXISTING STORM DRAIN
---	FUTURE STORM DRAIN
---	PROPOSED STORM
→	STORMWATER FLOW DIRECTION
---	CHANNEL FLOWLINE
---	TOP OF CUT/TOE OF SLOPE
4:1	PROPOSED GRADE SLOPES



FILE PATH: G:\Production\PlannedCommunity\2001169\033 Bentley Road Schematic\Civil\Drawings\Grading\033 Bentley Bridge Drive.dwg
 PLOTTED BY: J. DUNAWAY
 PLOTTED DATE: 10/3/2022

NO.	REVISION	BY	DATE

QDP	CHECKED
DESIGNED	
JDW	
DRAWN	
LAM	



SCALE	DATE
HORIZ 1" = 40'	OCTOBER 2022
VERT 1" = 8'	

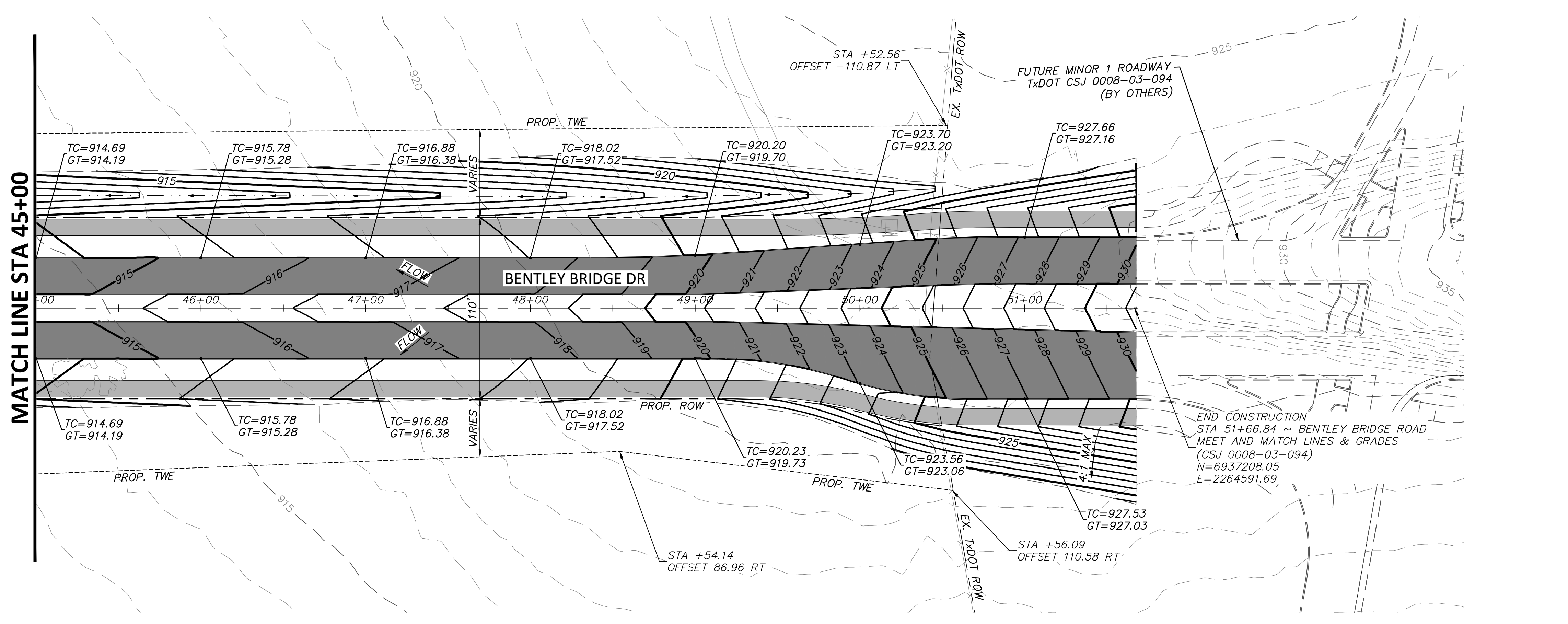
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 QUINTEN D. PLUMER
 P.E.# 138475 DATE: October 3, 2022

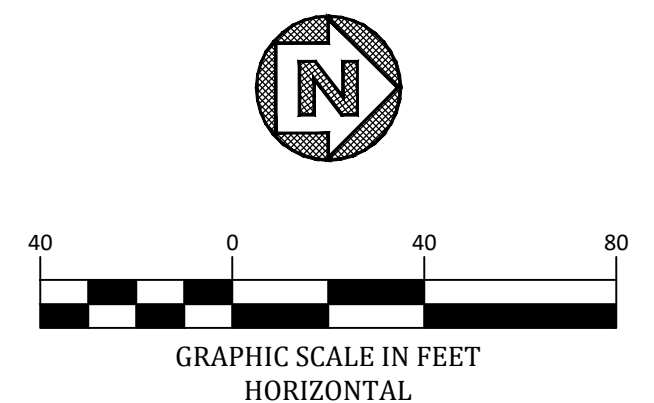
TARRANT COUNTY, TEXAS	DA PROJECT 2001169.033
BENTLEY BRIDGE DRIVE	SHEET
GRADING PLAN - BENTLEY BRIDGE DR STA 27+00 TO STA 45+00	13

UTILITY NOTE:
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GRADING LEGEND	
	EXISTING MAJOR CONTOUR (5 FT)
	EXISTING MINOR CONTOUR (1 FT)
	PROPOSED MAJOR CONTOUR (5 FT)
	PROPOSED MINOR CONTOUR (1 FT)
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	PROPOSED STORM
	STORMWATER FLOW DIRECTION
	CHANNEL FLOWLINE
	TOP OF CUT/TOE OF SLOPE
	PROPOSED GRADE SLOPES



FULL PATH: G:\Production\PlannedCommunity\2001169\2001169\Engineering\033 Bentley Road Schedule\Civil\Drawings\Grading\Grading\033 Bentley Road Schedule.dwg
 PLOTTED BY: JAW
 PLOTTED DATE: 10/03/2022

NO.	REVISION	BY	DATE

QDP	DESIGNED	JDW	DRAWN	LAM	CHECKED
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SCALE	DATE
HORIZ 1" = 40'	OCTOBER 2022
VERT 1" = 8'	

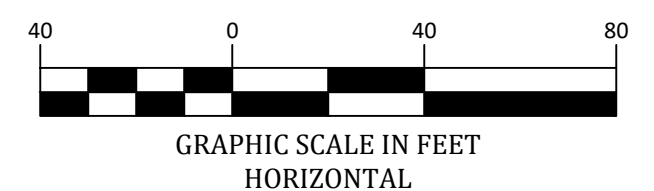
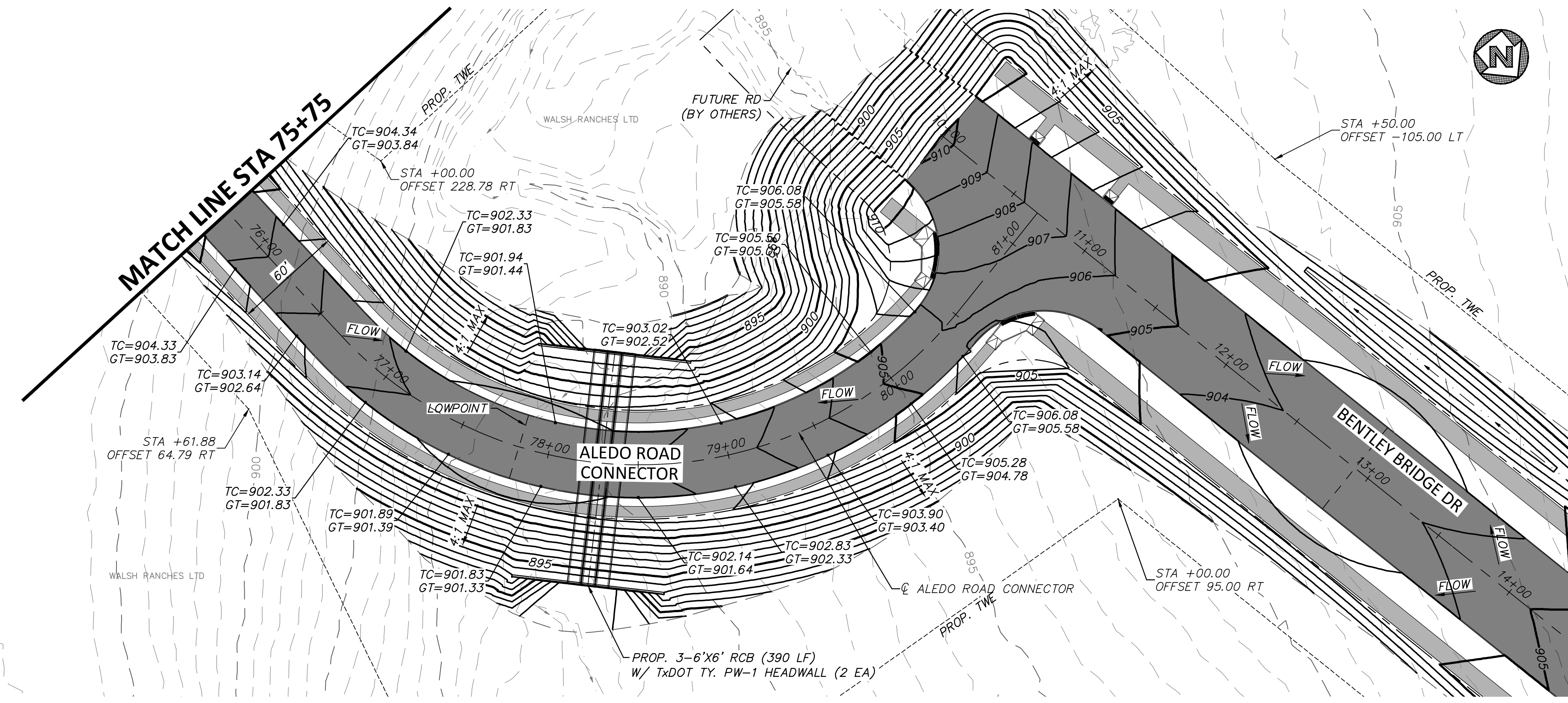
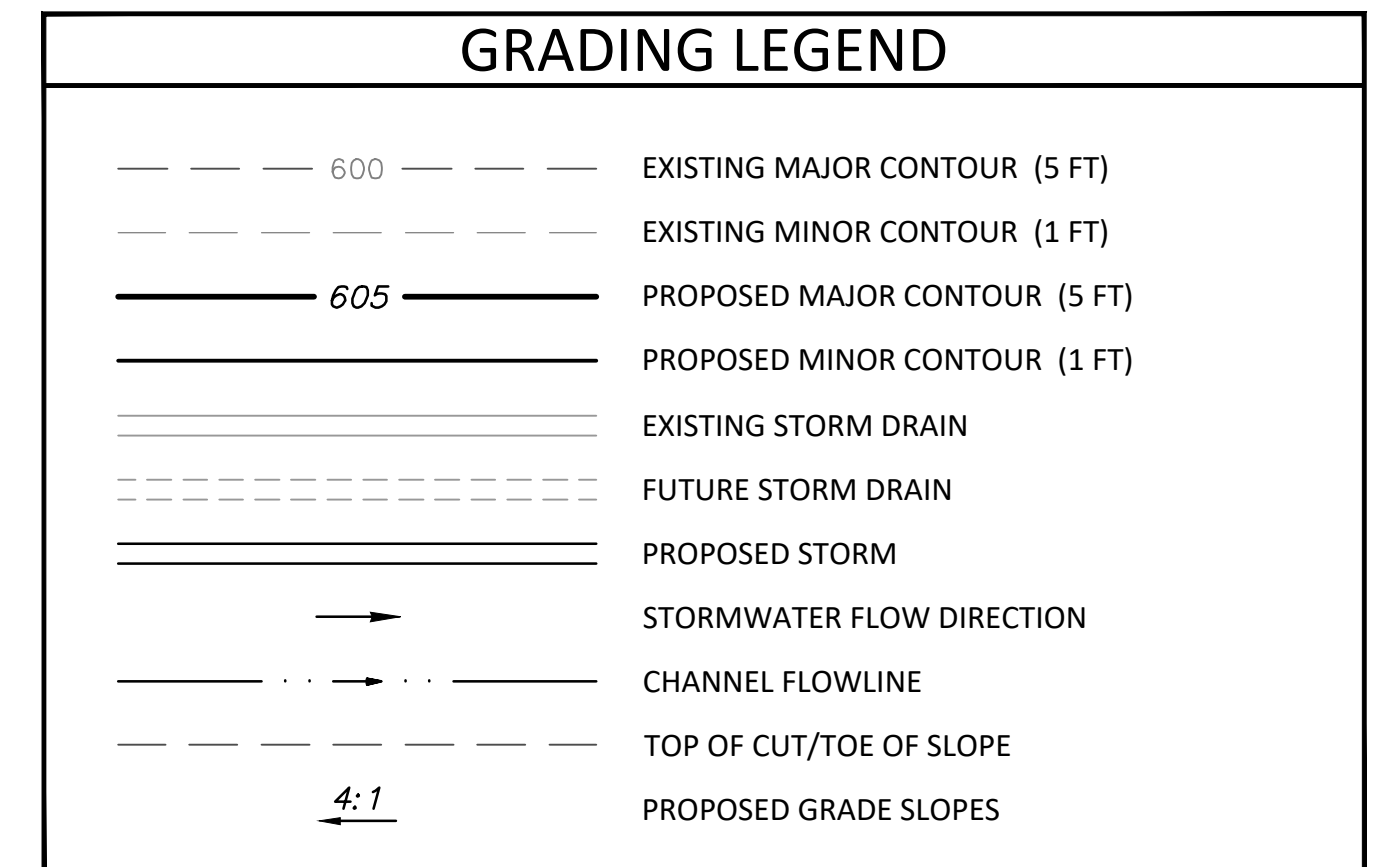
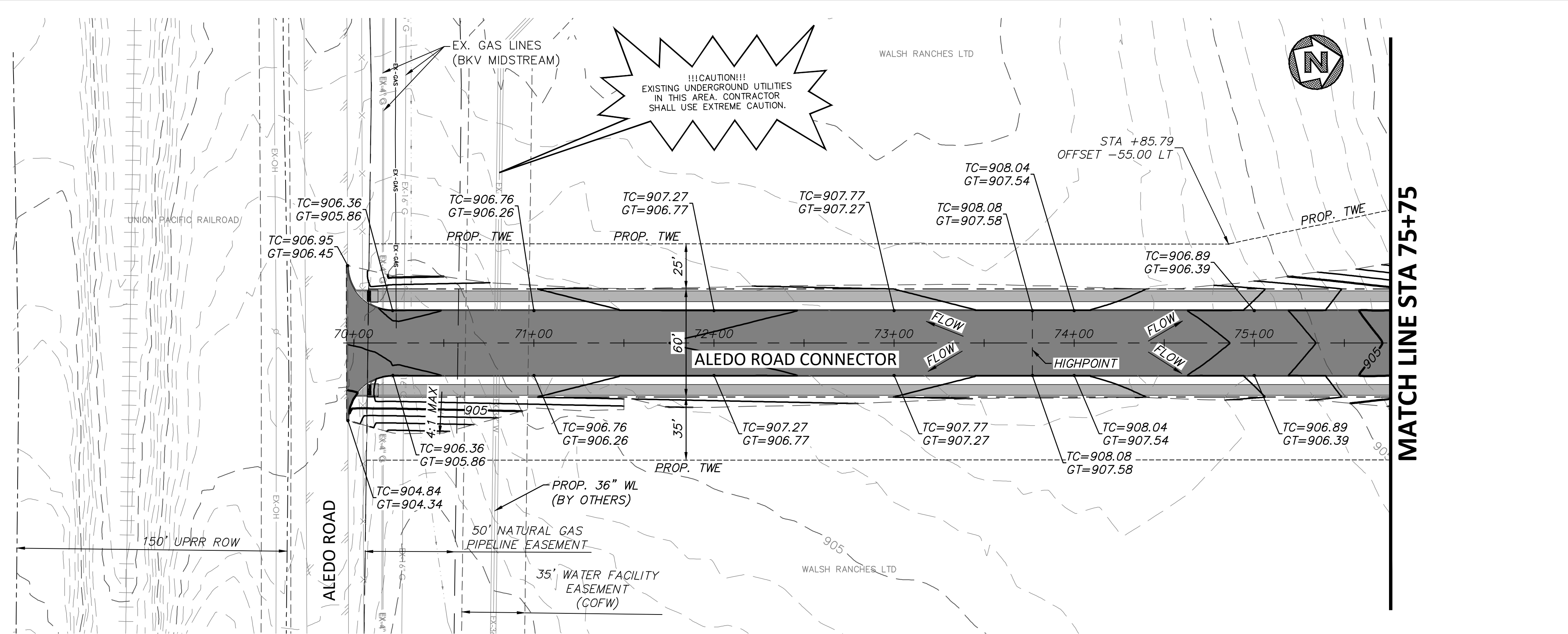
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 QUINTEN D. PLUMER
 P.E.# 138475 DATE: October 3, 2022

TARRANT COUNTY, TEXAS	DA PROJECT 2001169.033
BENTLEY BRIDGE DRIVE	SHEET
GRADING PLAN - BENTLEY BRIDGE DR STA 45+00 TO STA 51+66.84	14

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 THE UTILITIES SHOWN ON THE PLANS WERE COMPILED FROM VARIOUS SOURCES AND ARE INTENDED TO SHOW THE GENERAL EXISTENCE AND LOCATION OF UTILITIES IN THE AREA OF CONSTRUCTION. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE UTILITY INFORMATION SHOWN ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT UTILITY COMPANIES 48 HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITIES IN ORDER TO DETERMINE IF THERE IS ANY CONFLICT WITH THE PROPOSED FACILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICTS WITH EXISTING UTILITIES ARE DISCOVERED. THE FOLLOWING PHONE NUMBERS ARE PROVIDED FOR CONVENIENCE. CONSIDERATION OF OTHER UTILITIES MAY BE REQUIRED.

FORT WORTH WATER DEPT	(817) 392-8296
FORT WORTH TPW	(817) 392-8100
TEXAS 811 (LOCATING SERVICE)	811
CHARTER COMMUNICATIONS (TV CABLE)	(888) 438-2427
MCI (OWNER OF WESTERN UNION LINES)	(800) 624-9675
AT&T	(817) 338-6202
FRONTIER	(800) 921-8102
ATMOS ENERGY	(800) 817-8090
ONCOR ELECTRIC DELIVERY	(888) 313-6862



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 PLOTTED BY: Chaitan Kumar
 PLOTTED AT: 7:54:28 PM

NO.	REVISION	BY	DATE

QDP	DESIGNED	JDW	DRAWN	LAM	CHECKED
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SCALE	DATE
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VERT 1" = 8'	

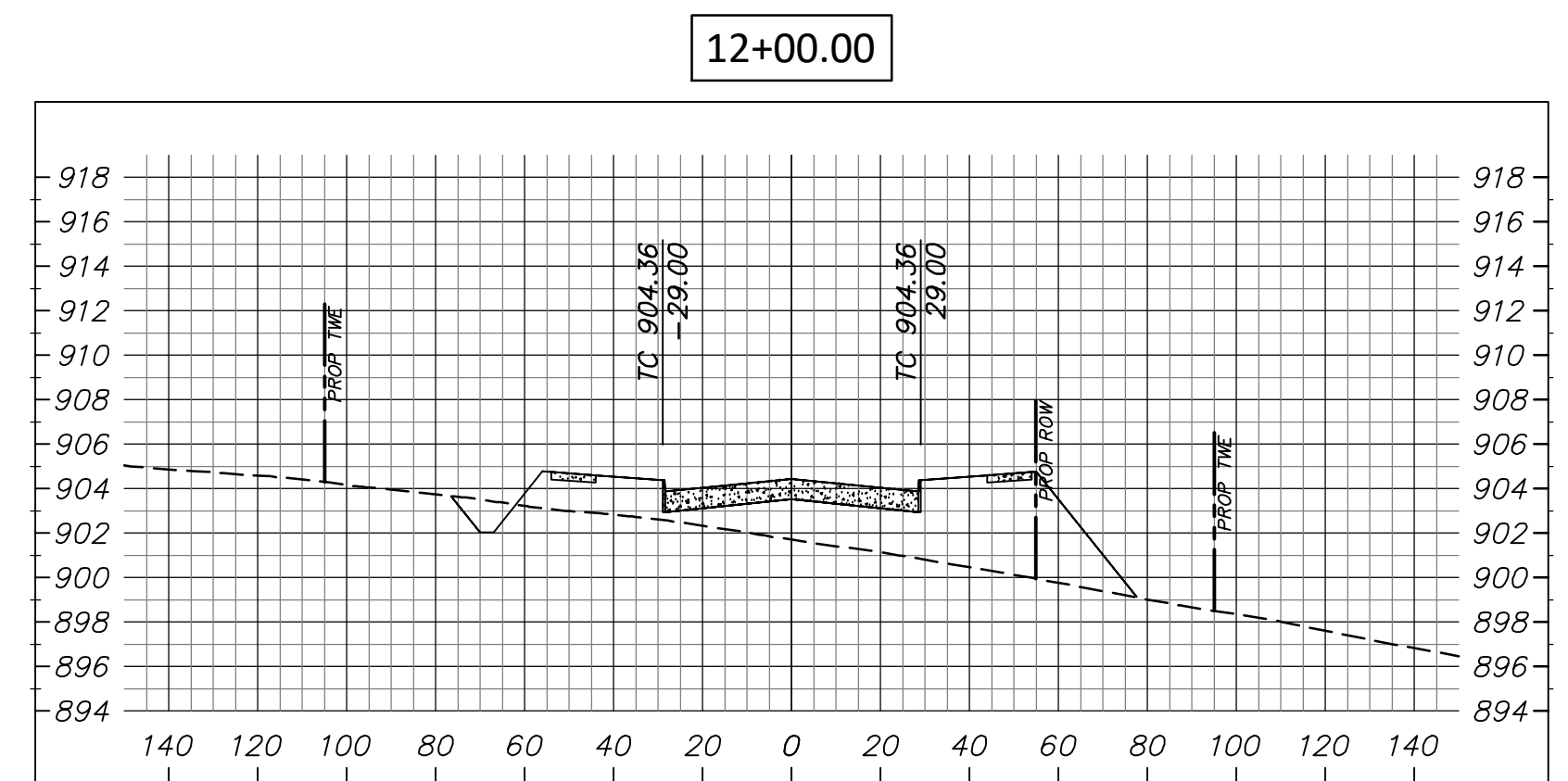
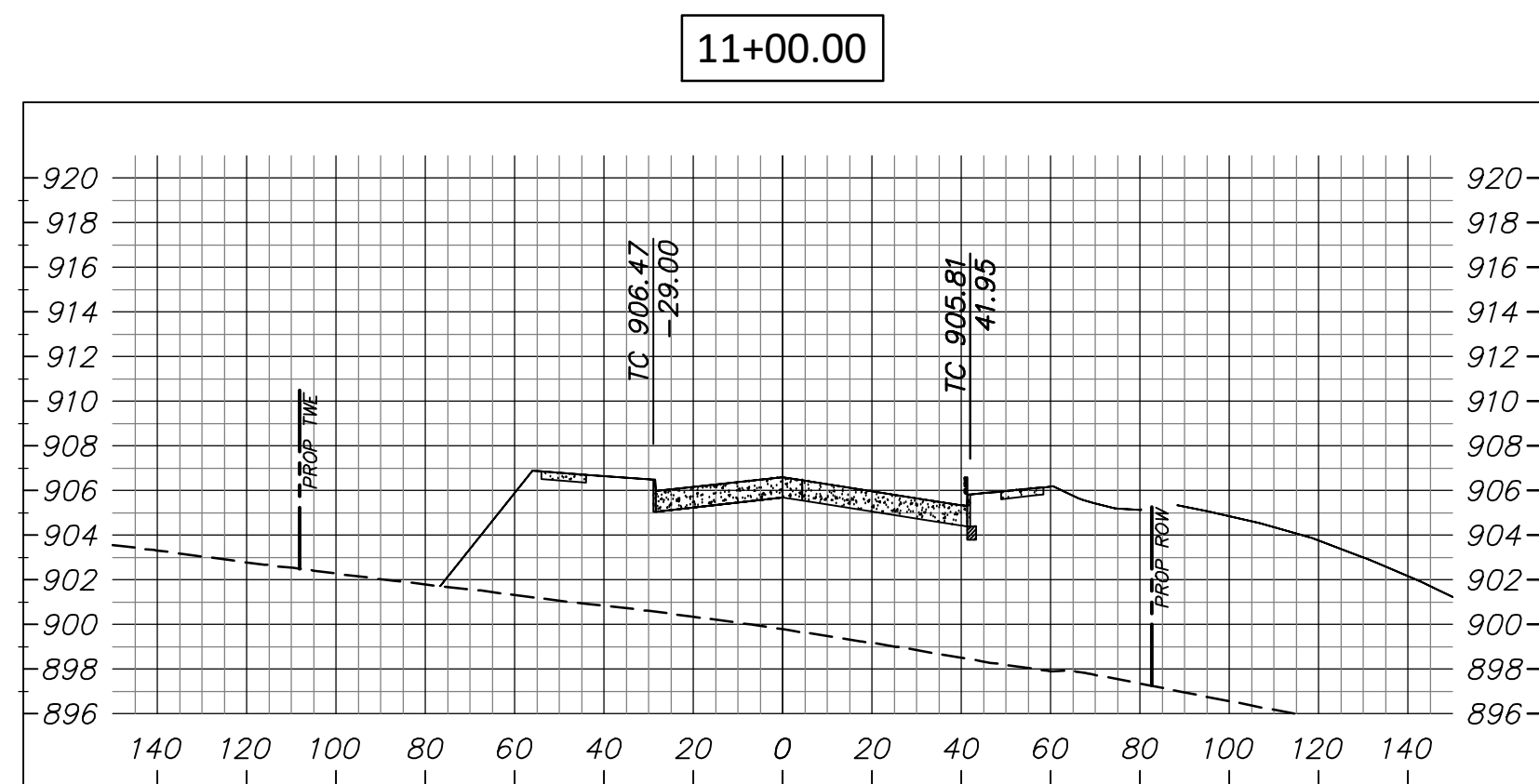
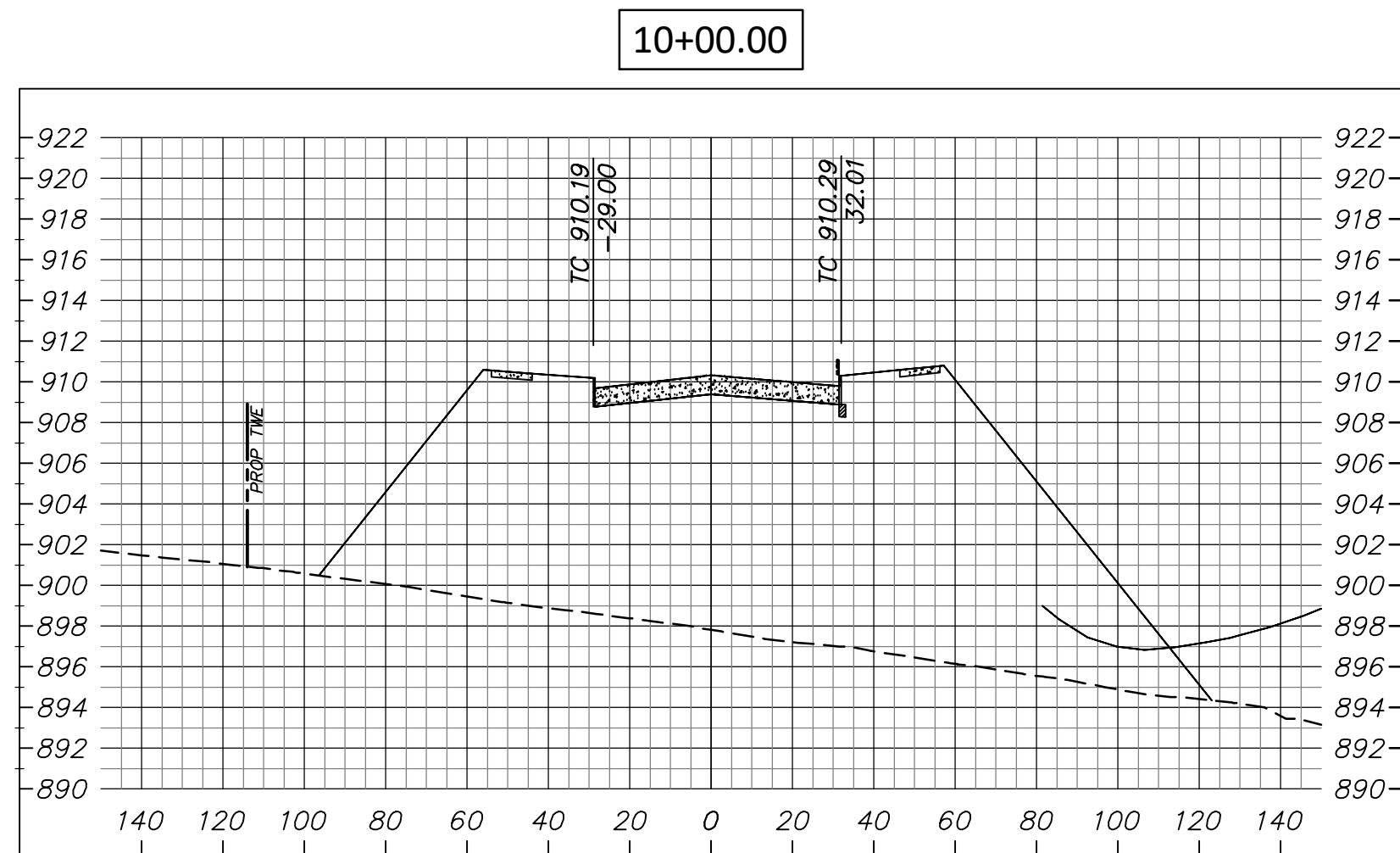
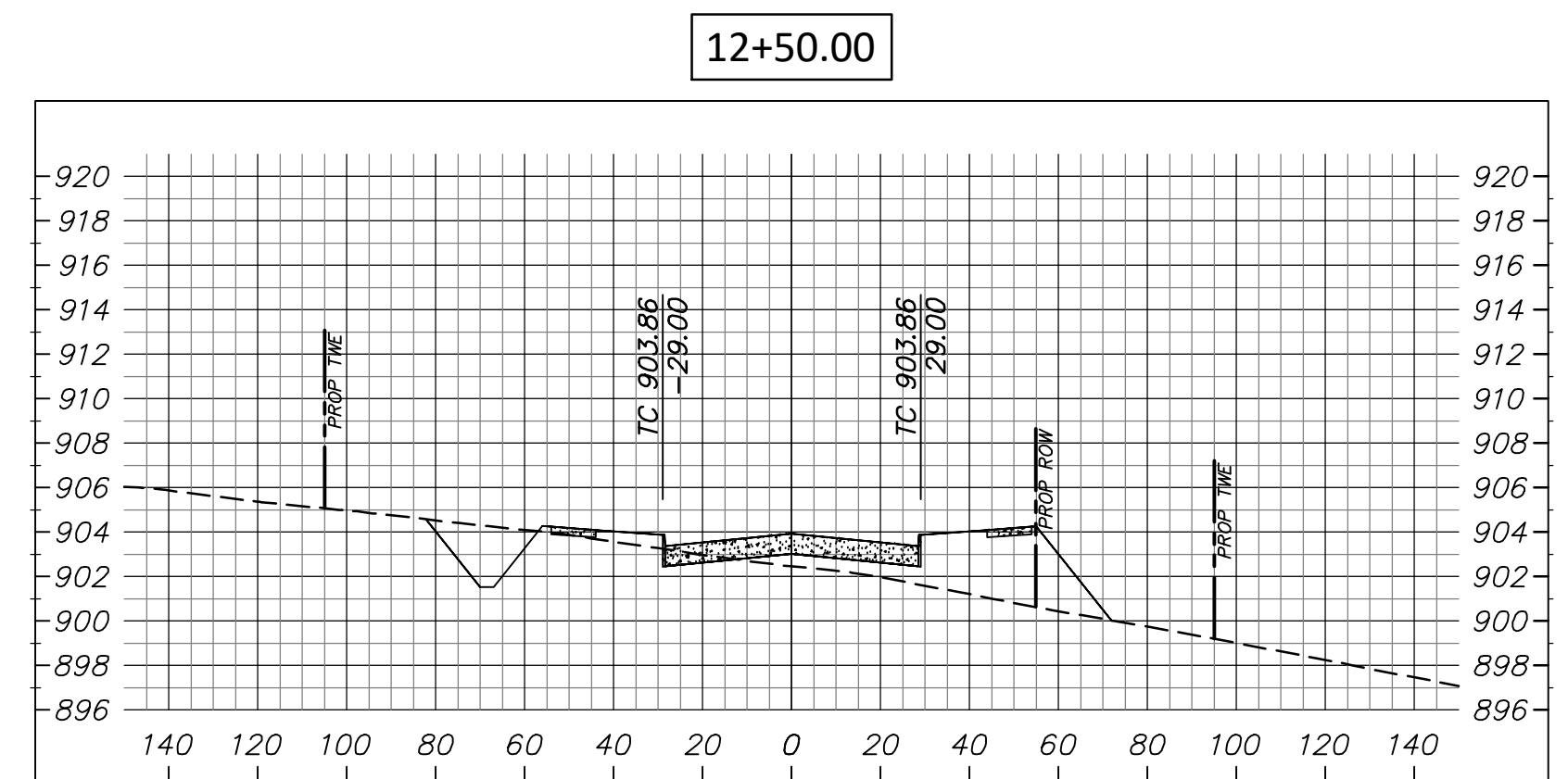
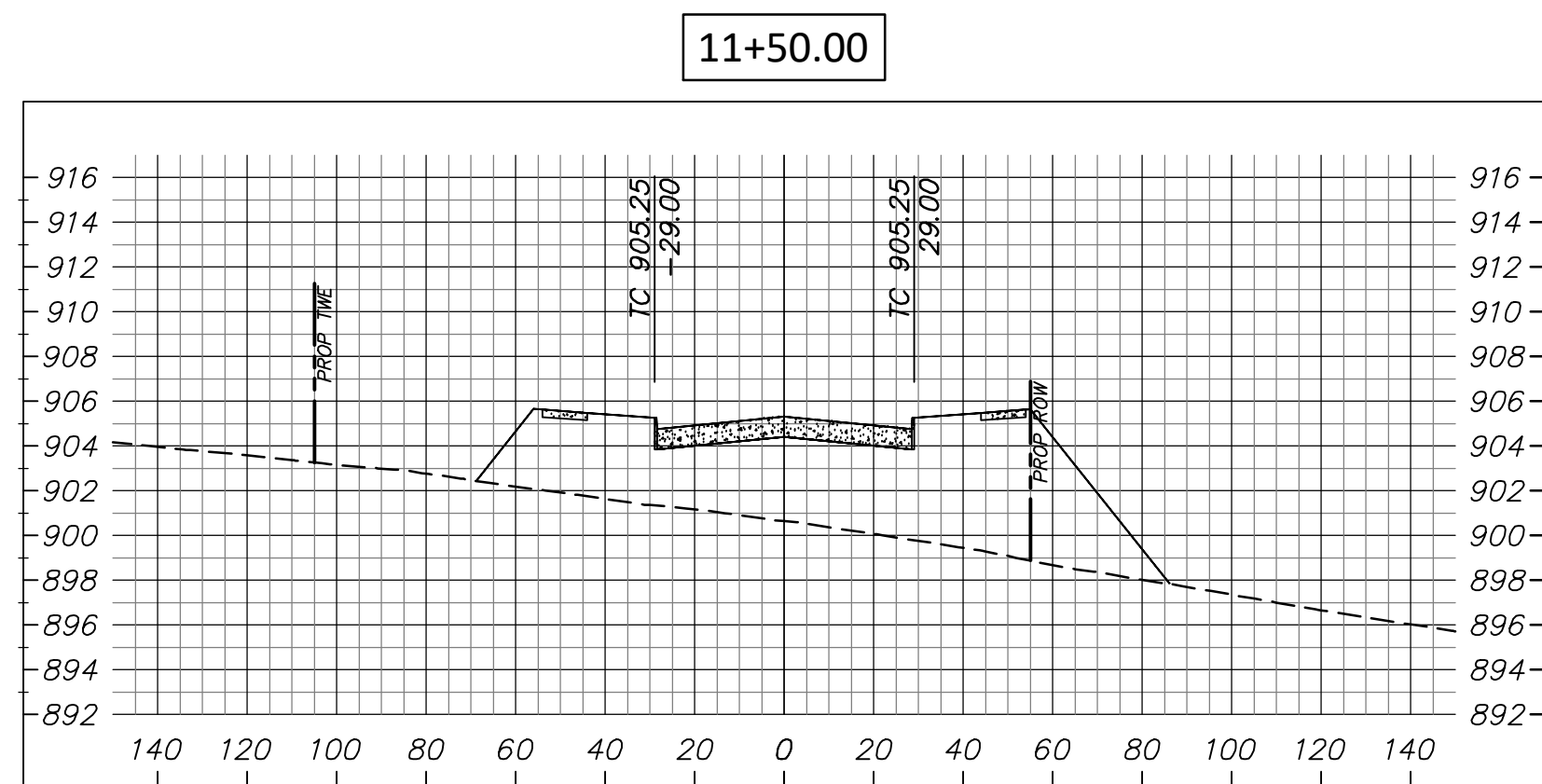
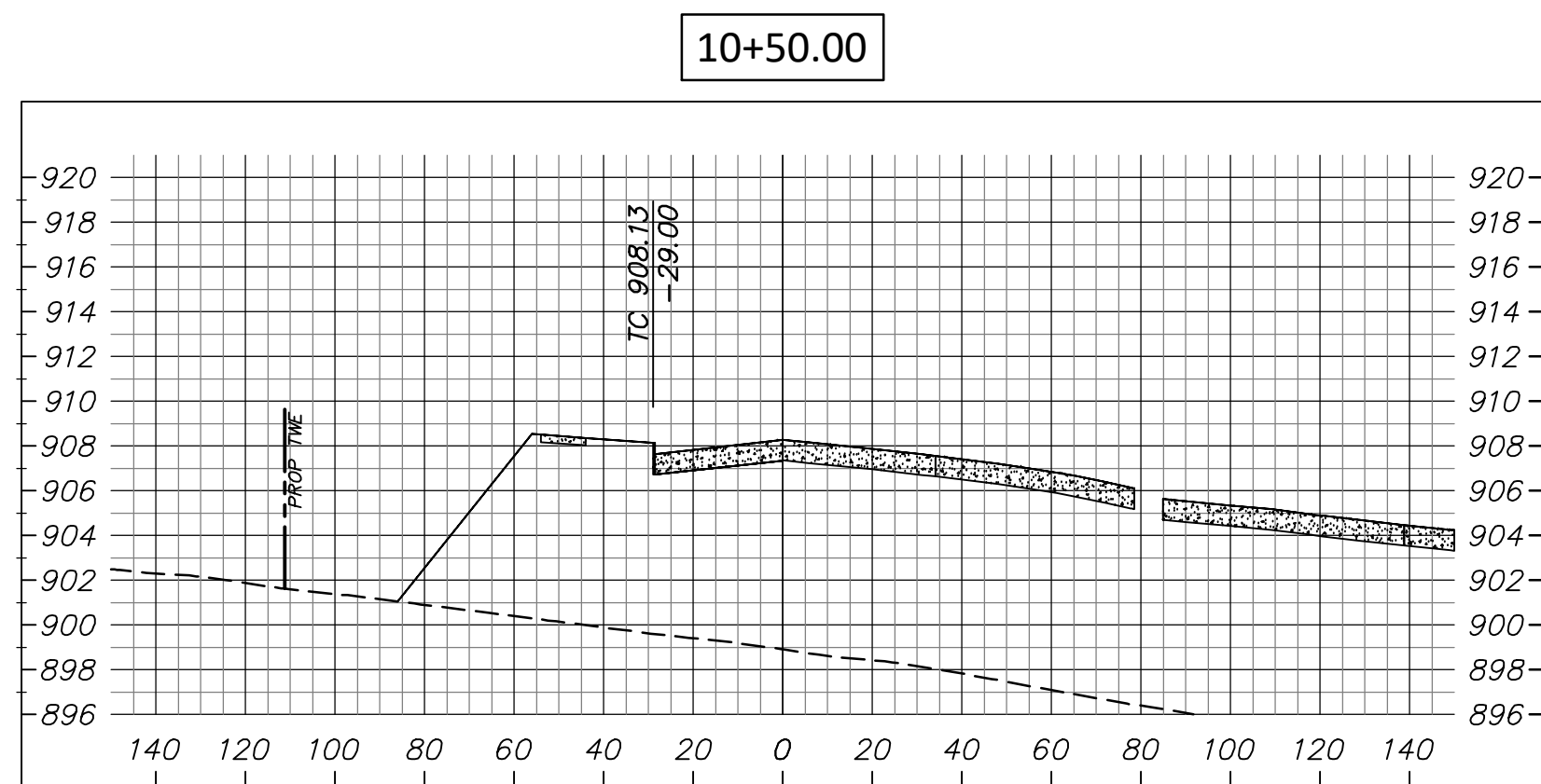
DUNAWAY
 550 Bailey Avenue • Suite 400 • Fort Worth, Texas 76107
 Tel: 817.335.1121
 TX REG. F-1114

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 QUINTEN D. PLUMER
 P.E.# 138475 DATE: October 3, 2022

TARRANT COUNTY, TEXAS	DA PROJECT 2001169.033
BENTLEY BRIDGE DRIVE	SHEET
GRADING PLAN - ALEDO ROAD CONNECTOR STA 27+00 TO STA 36+00	15

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 PLOTTED AT: 7:42:28 PM

FILENAME: X-SECT.dwg
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 PLOTTED AT: 10/03/2022



NO.	REVISION	BY	DATE

QDP	CHECKED
DESIGNED	
JDW	
DRAWN	
LAM	



SCALE	DATE
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VERT 1" = 8'	

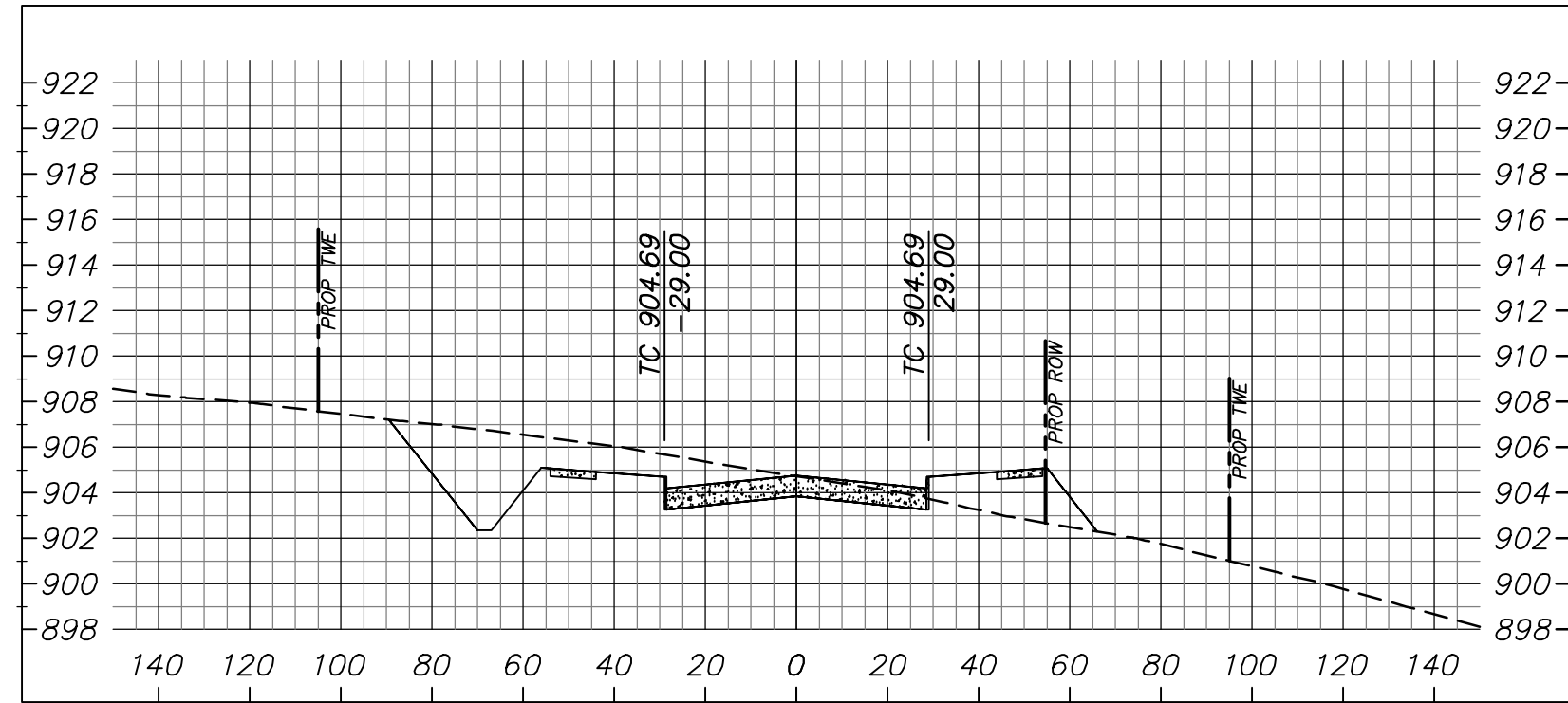

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 Tel: 817.335.1121
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 QUINTEN D. PLUMER
 P.E.# 138475 DATE: October 3, 2022

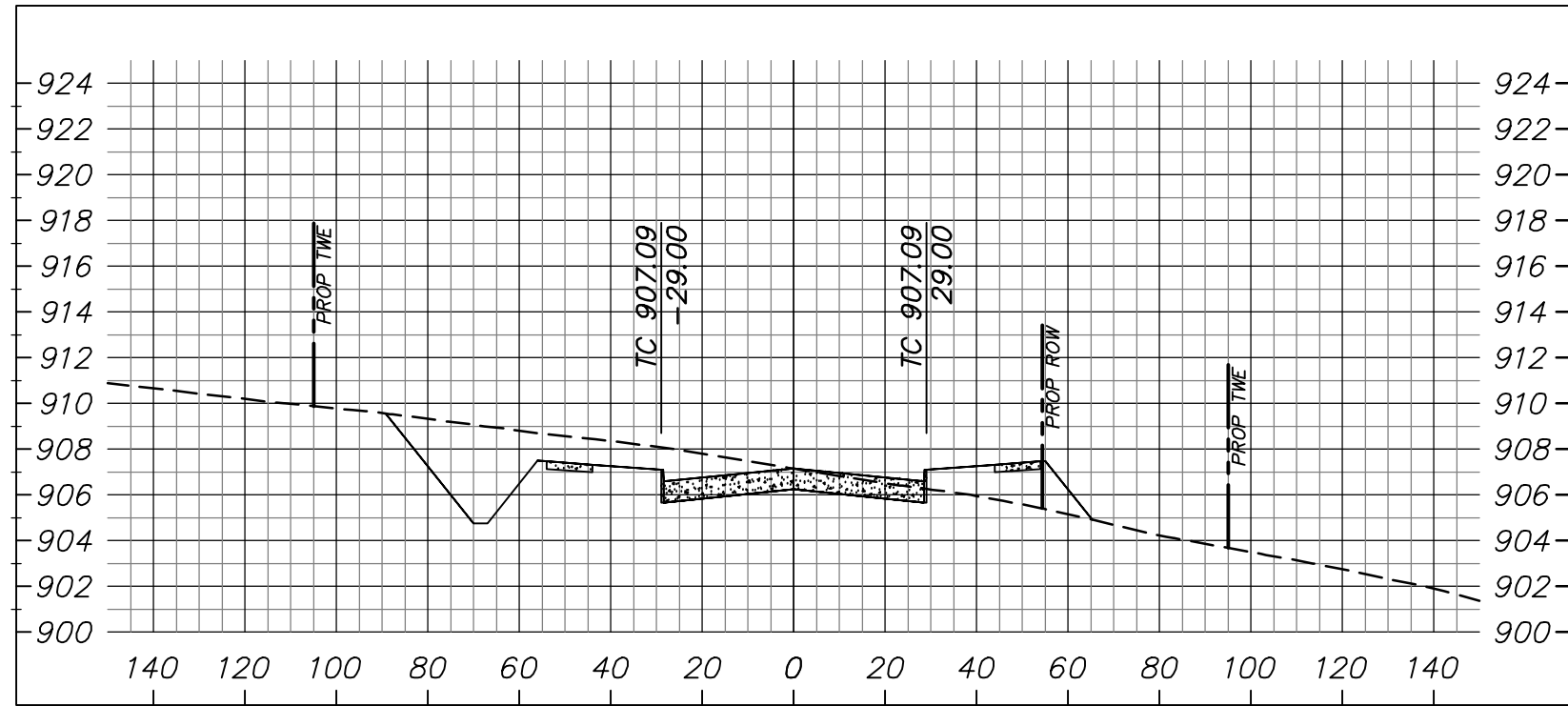
TARRANT COUNTY, TEXAS
BENTLEY BRIDGE DRIVE
CROSS SECTIONS - BENTLEY BRIDGE DRIVE STA 10+00 TO STA 14+00

DA PROJECT 2001169.033	SHEET 16
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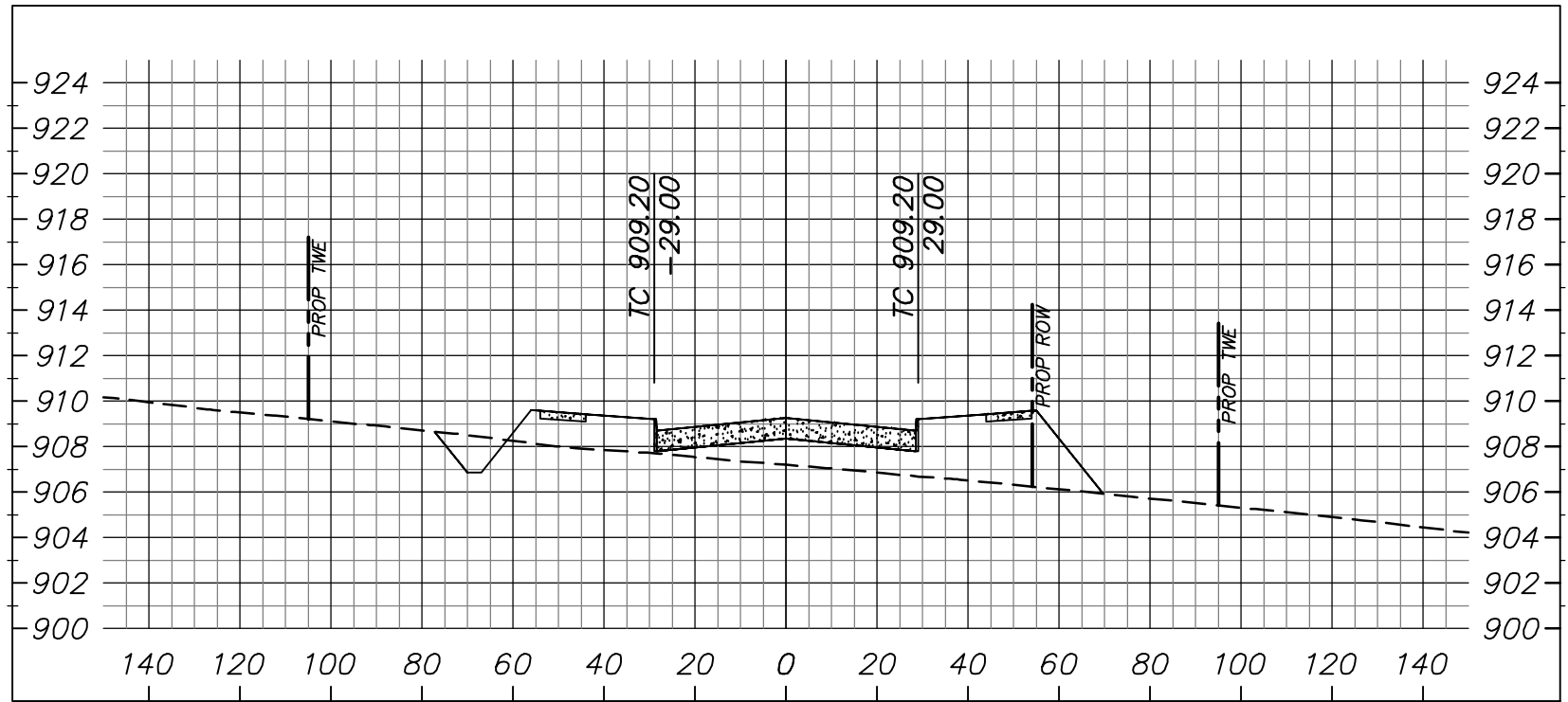
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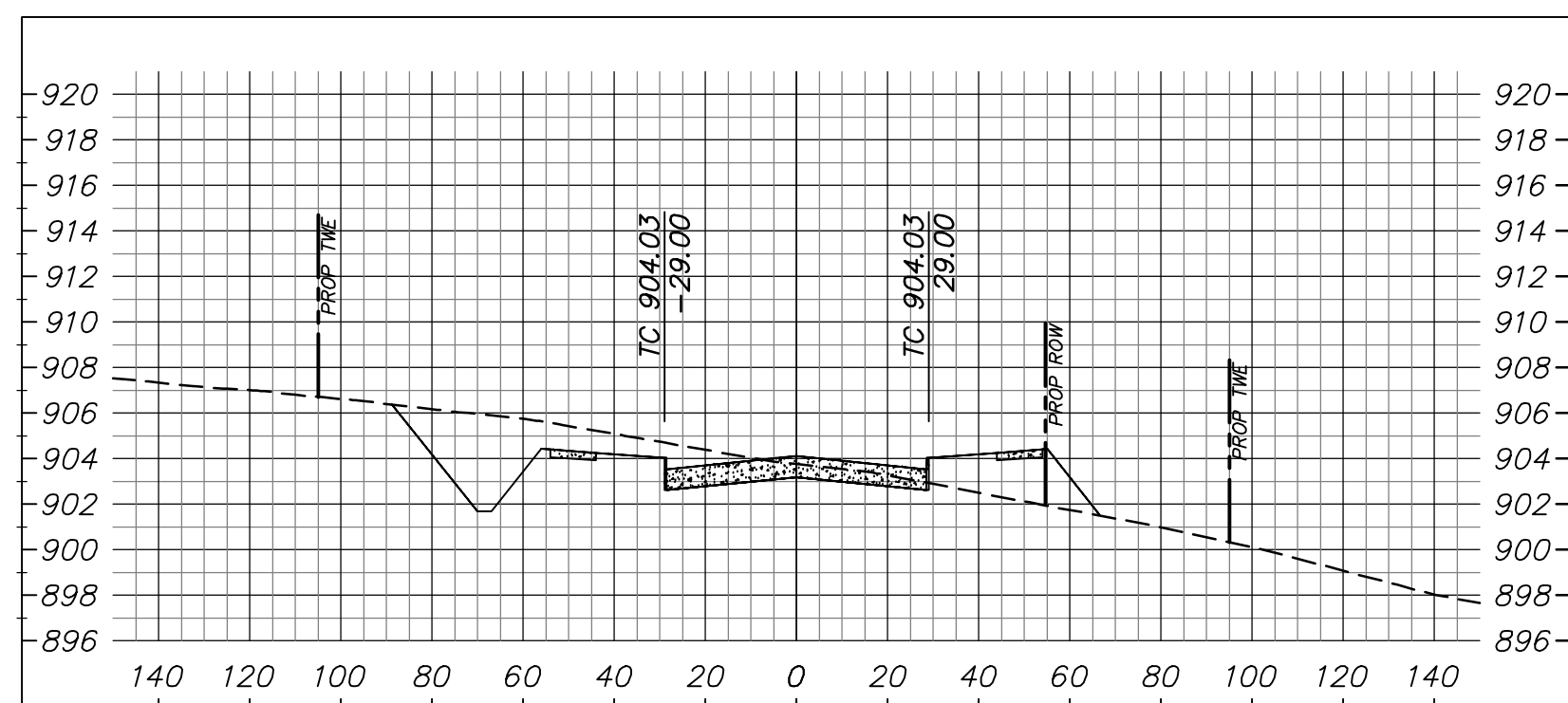
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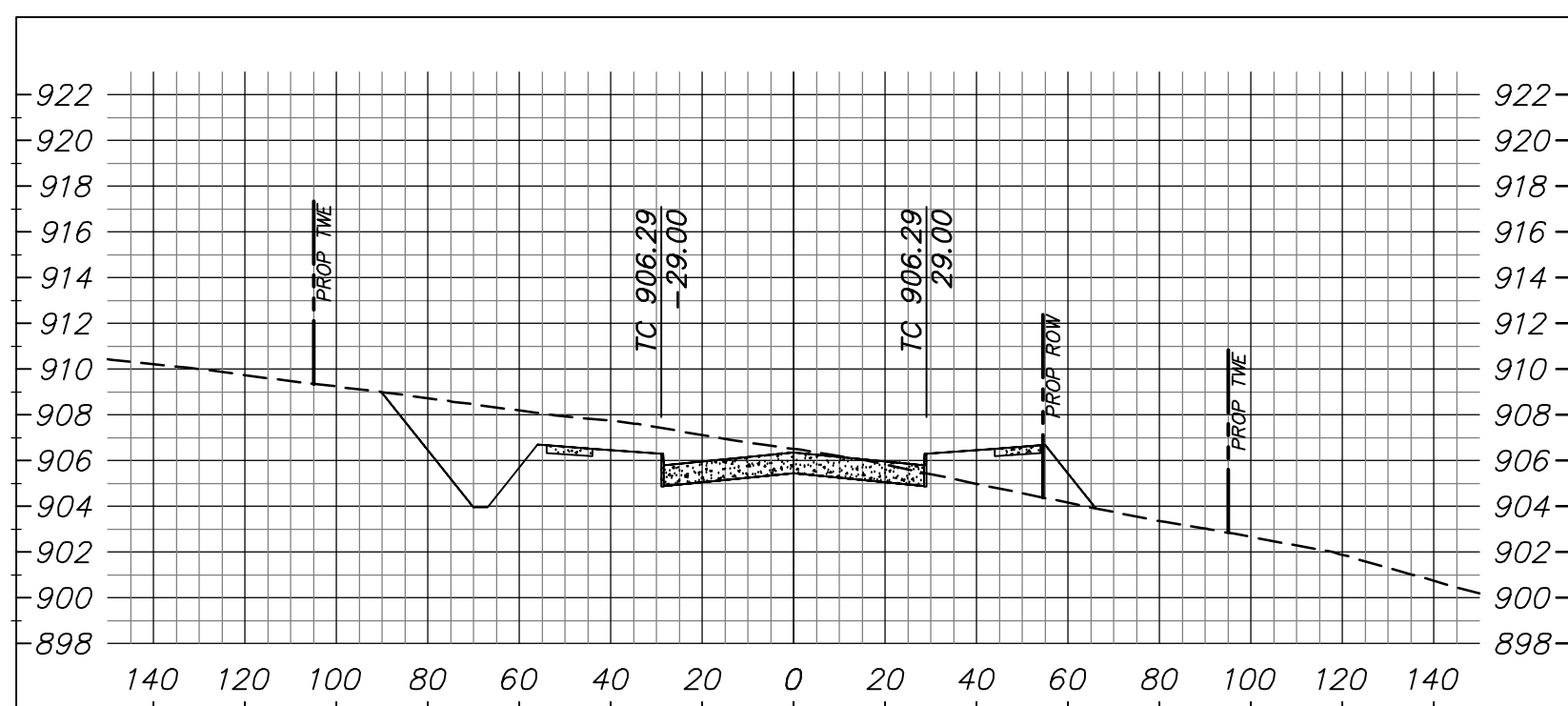
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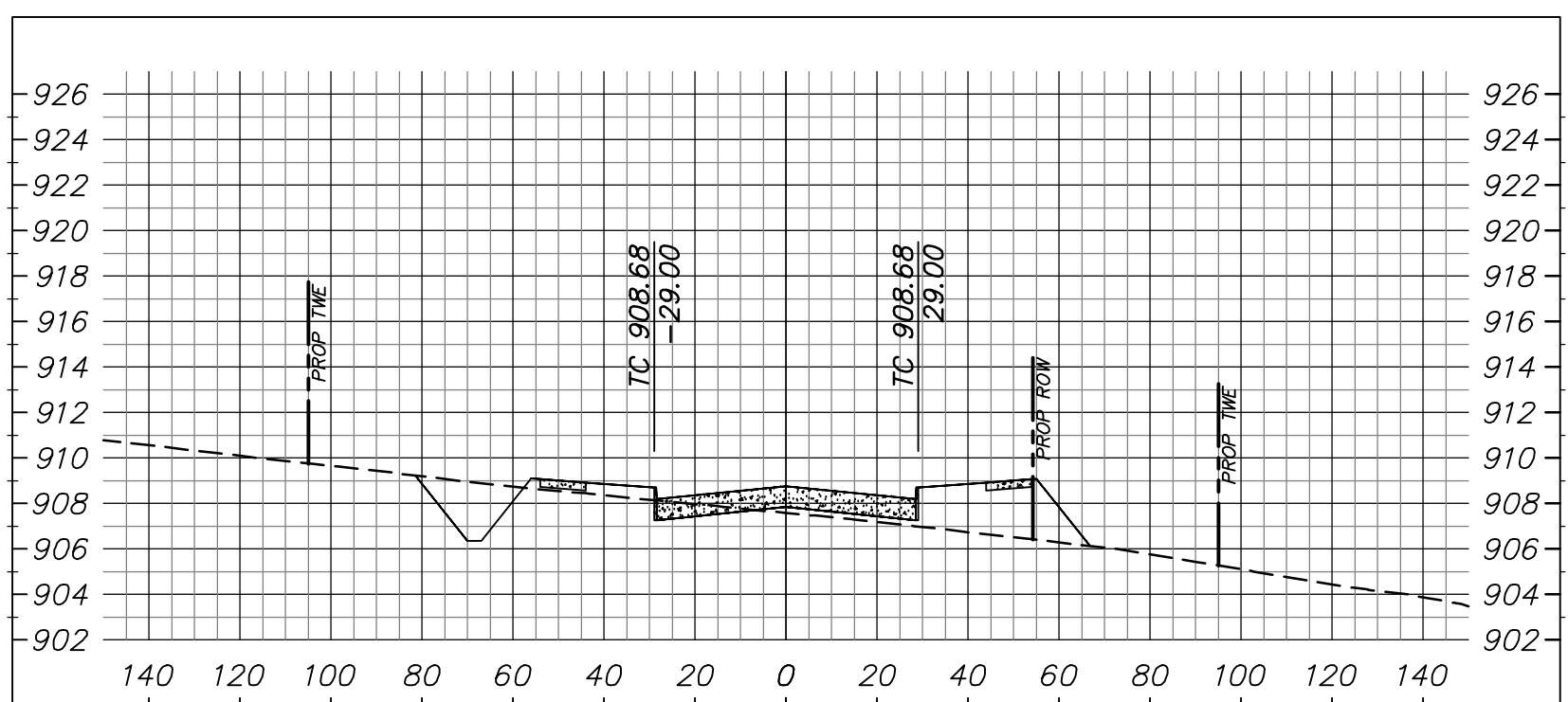
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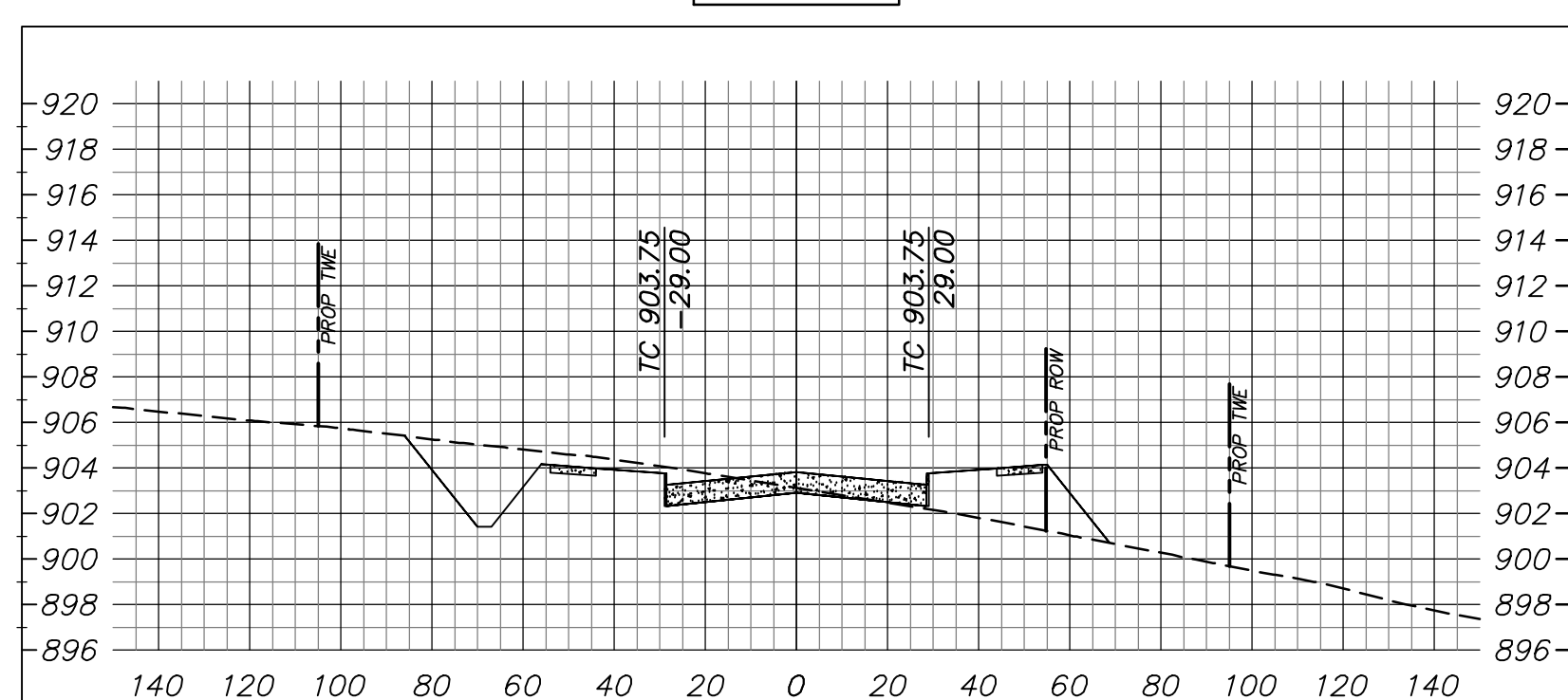
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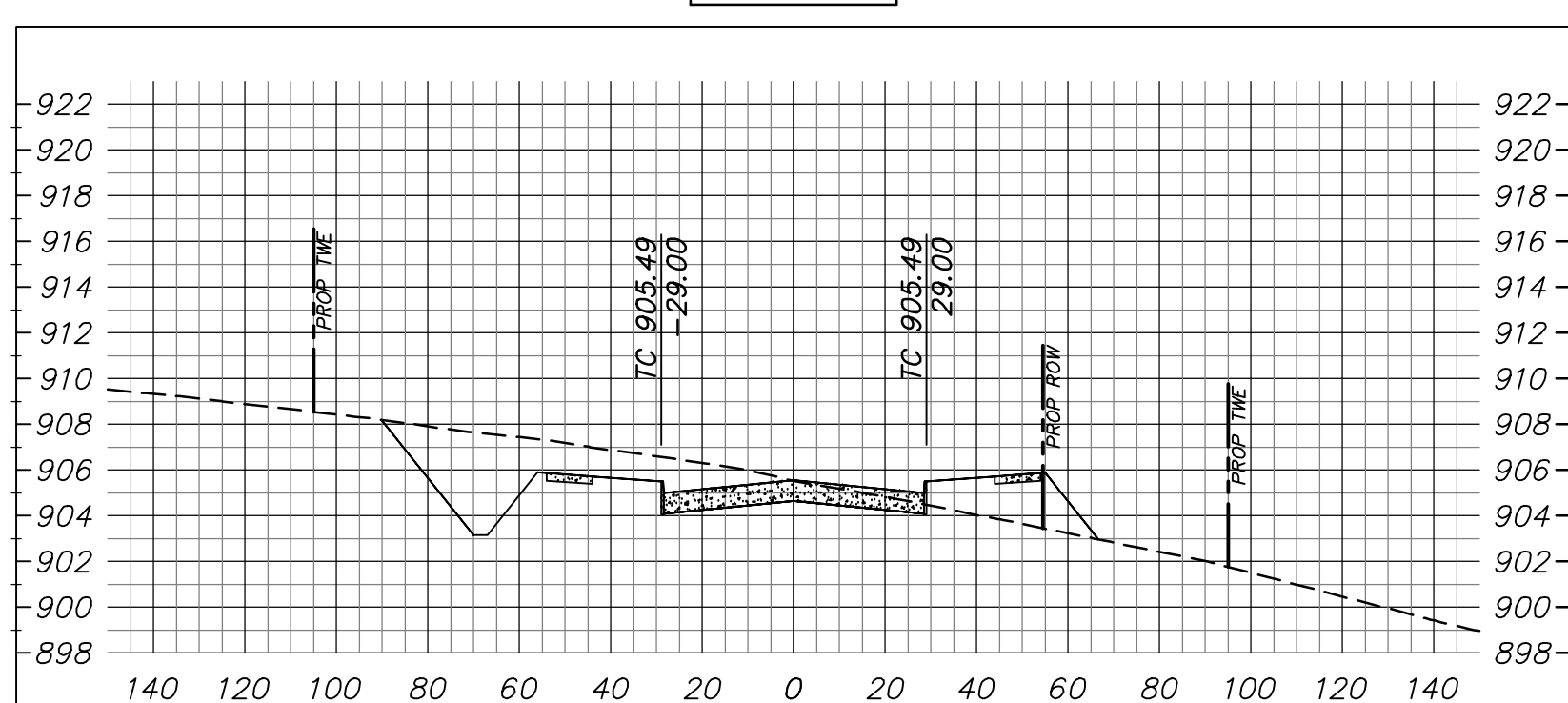
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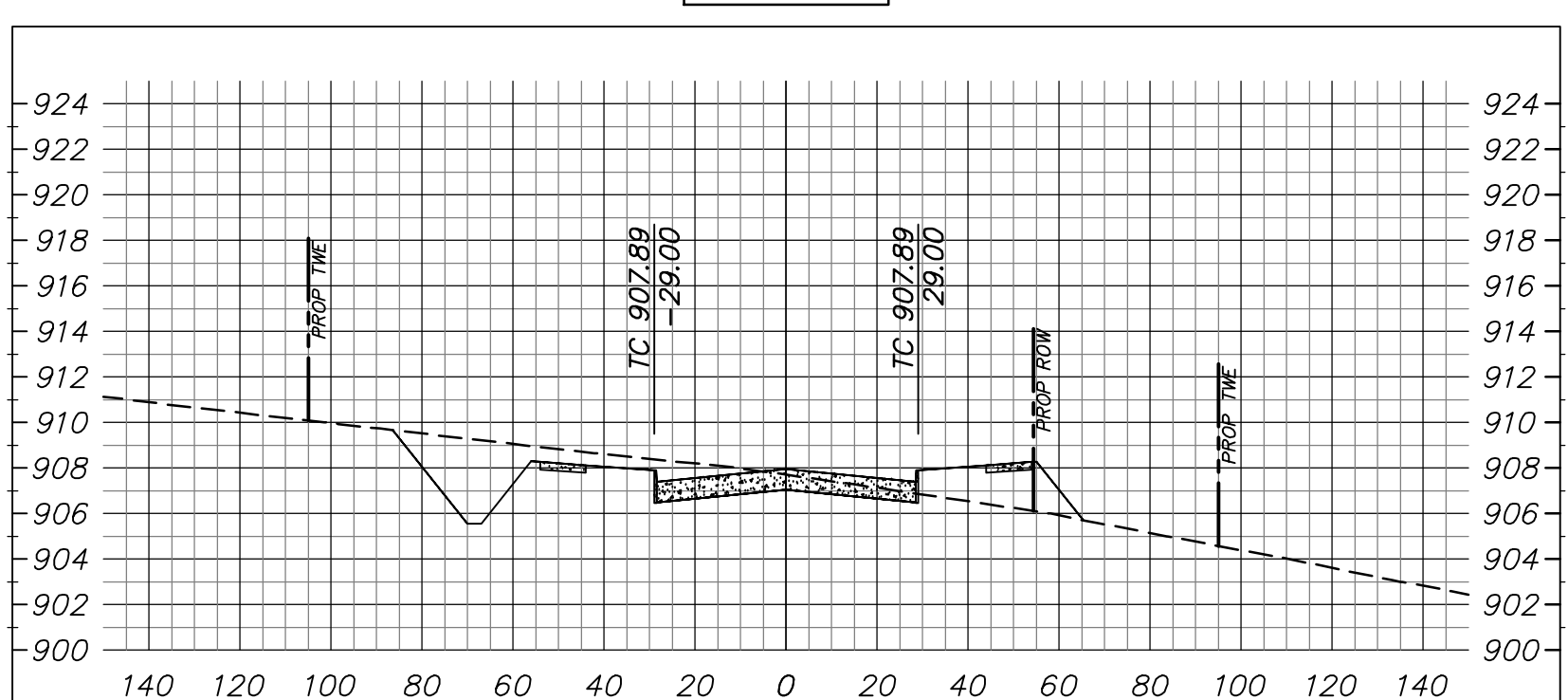
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14+50.00



16+00.00



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 PLOTTED AT: 7:42:29 PM

NO.	REVISION	BY	DATE

QDP	CHECKED
DESIGNED	
JDW	
DRAWN	
LAM	



SCALE	DATE
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VERT 1" = 8'	

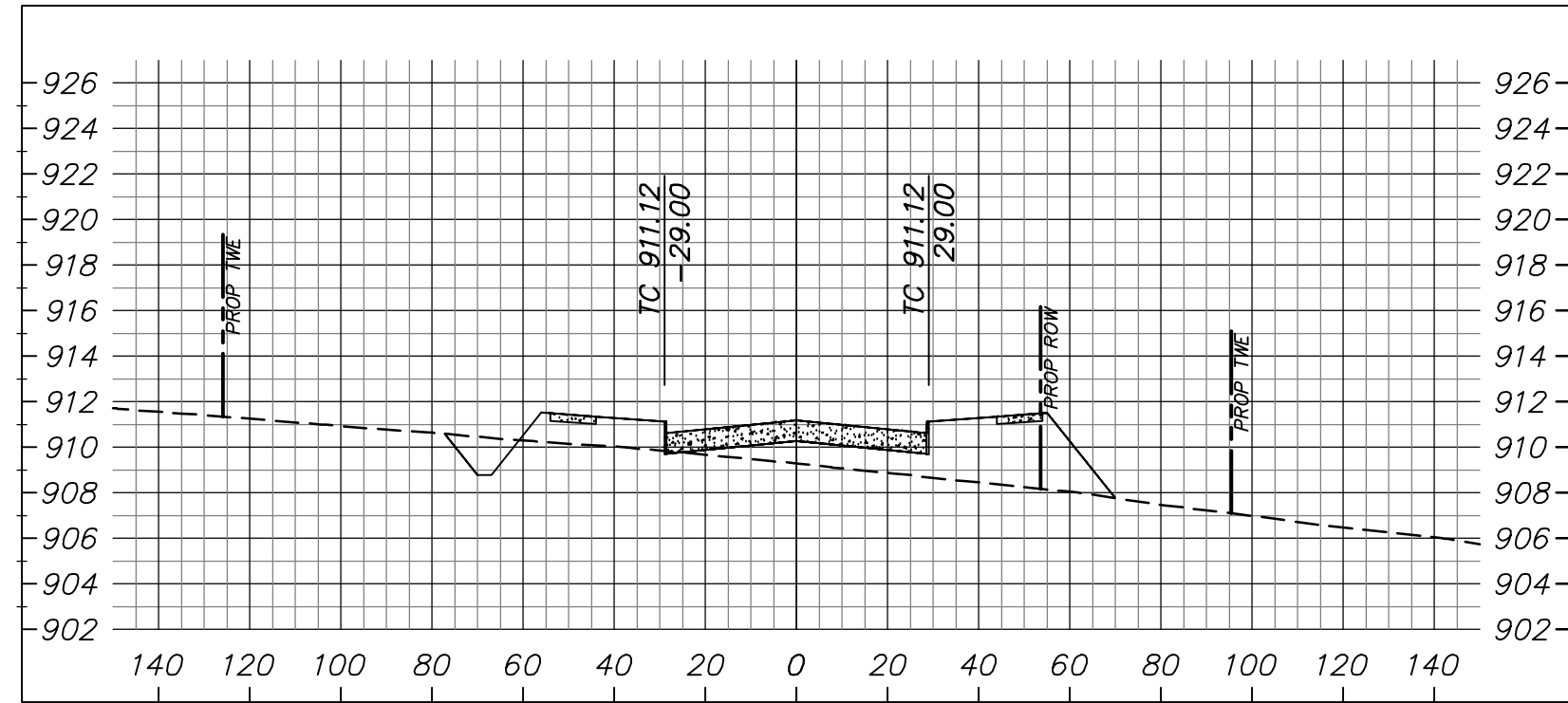
DUNAWAY
 550 Bailey Avenue • Suite 400 • Fort Worth, Texas 76107
 Tel: 817.335.1121
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 QUINTEN D. PLUMER
 P.E.# 138475 DATE: October 3, 2022

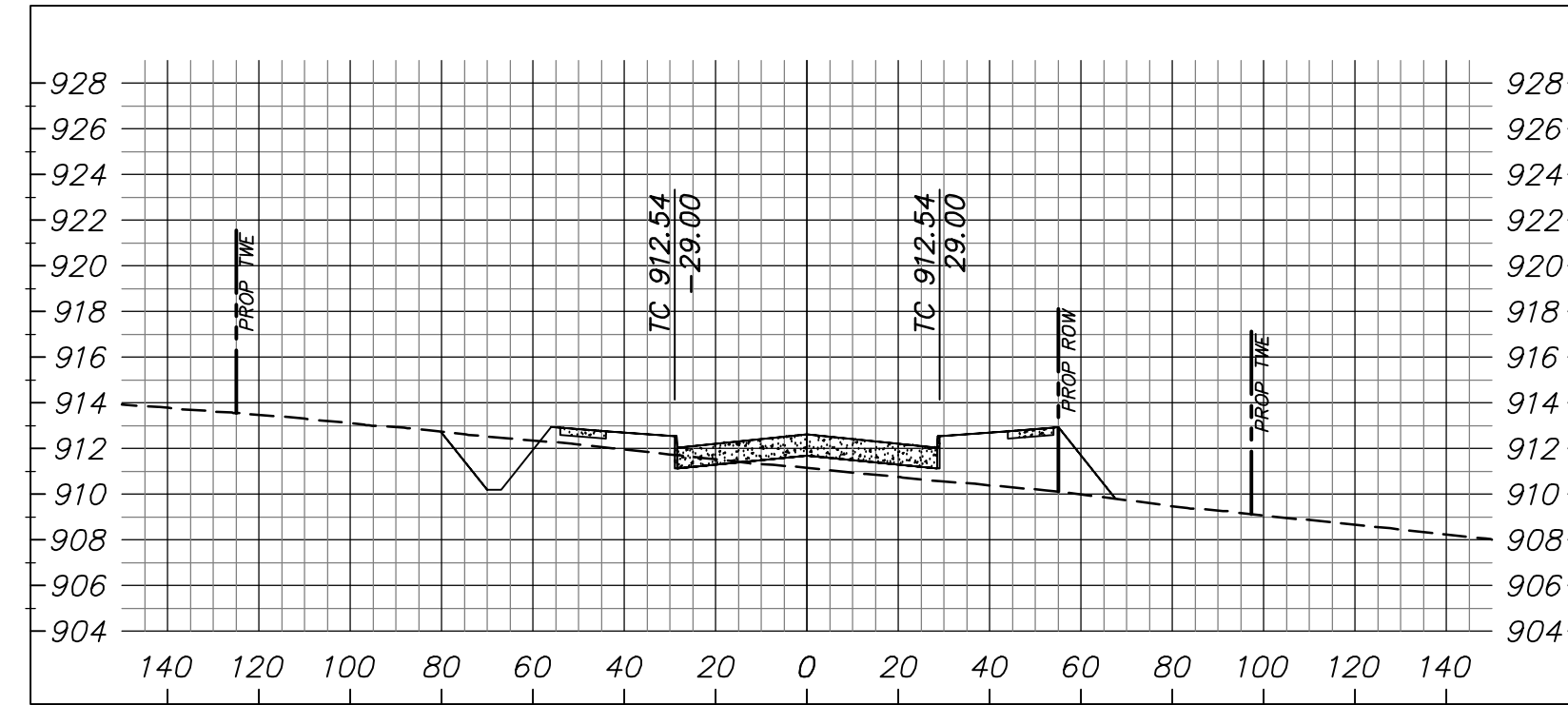
TARRANT COUNTY, TEXAS
BENTLEY BRIDGE DRIVE
CROSS SECTIONS - BENTLEY BRIDGE DRIVE STA 14+50 TO STA 18+50

DA PROJECT 2001169.033
SHEET 17

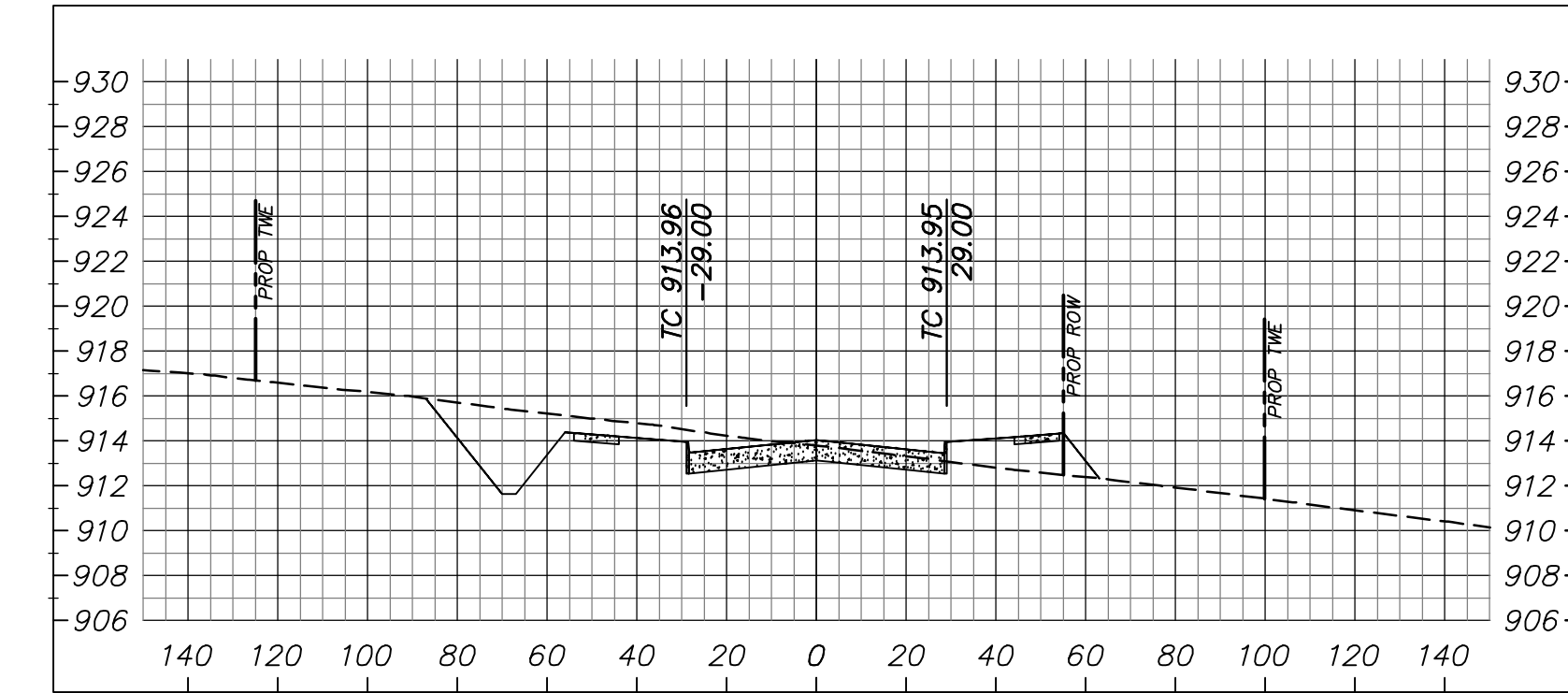
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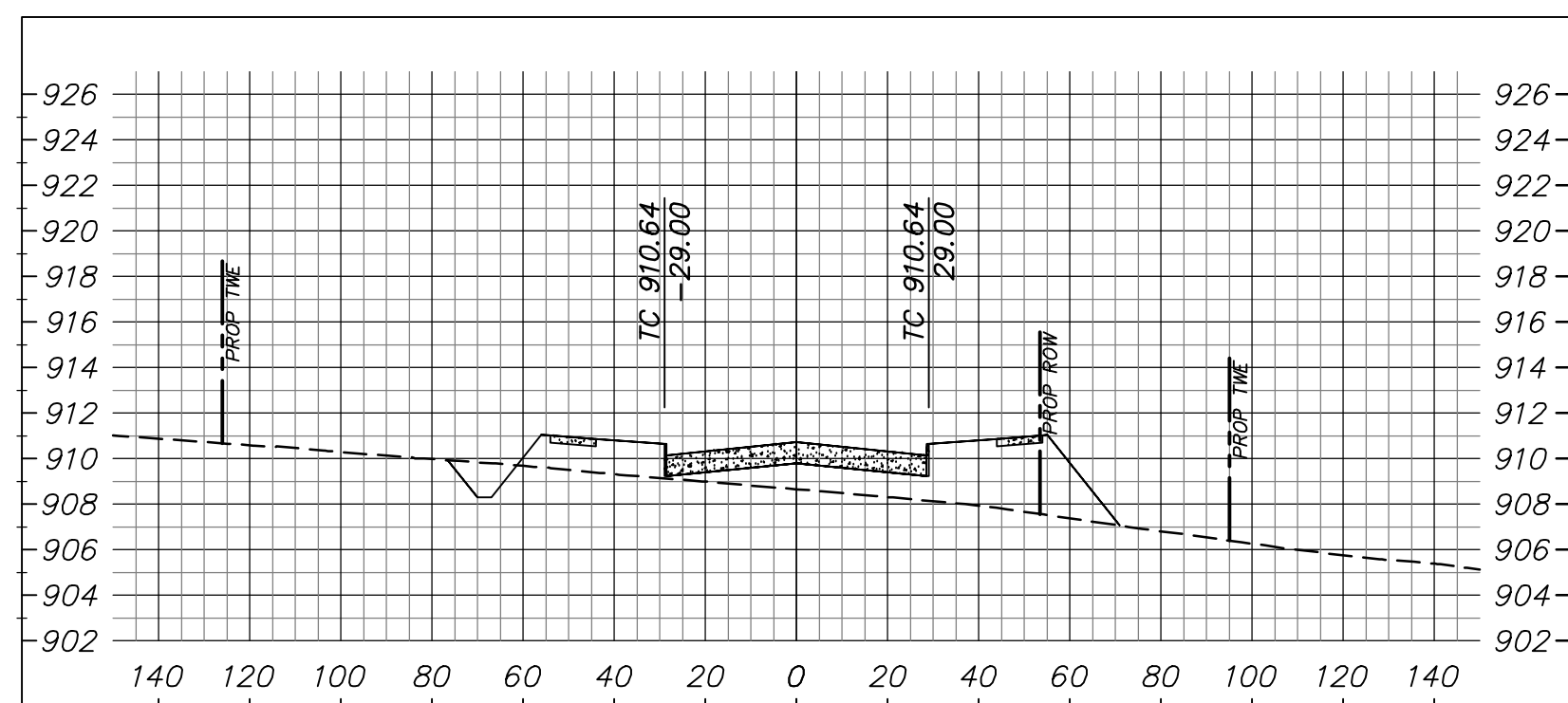
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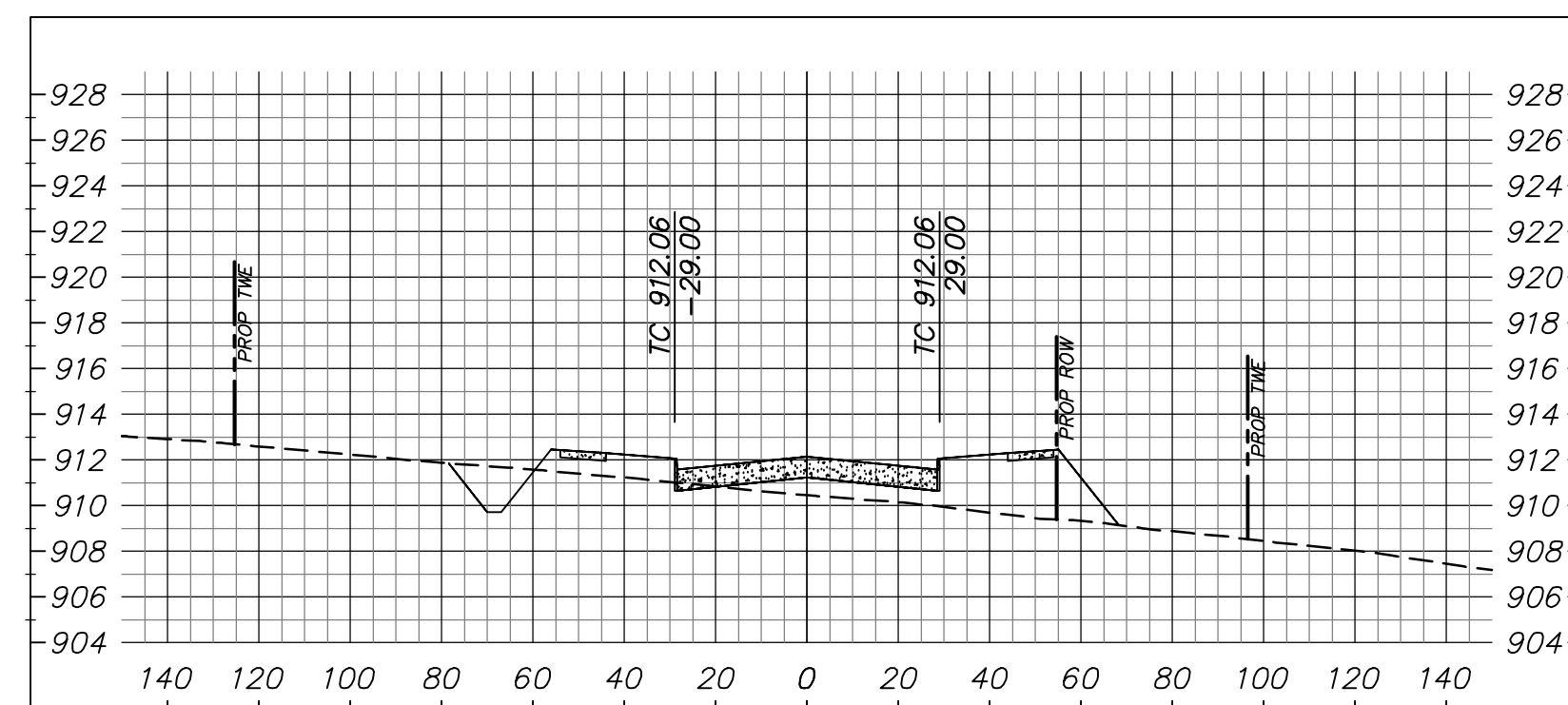
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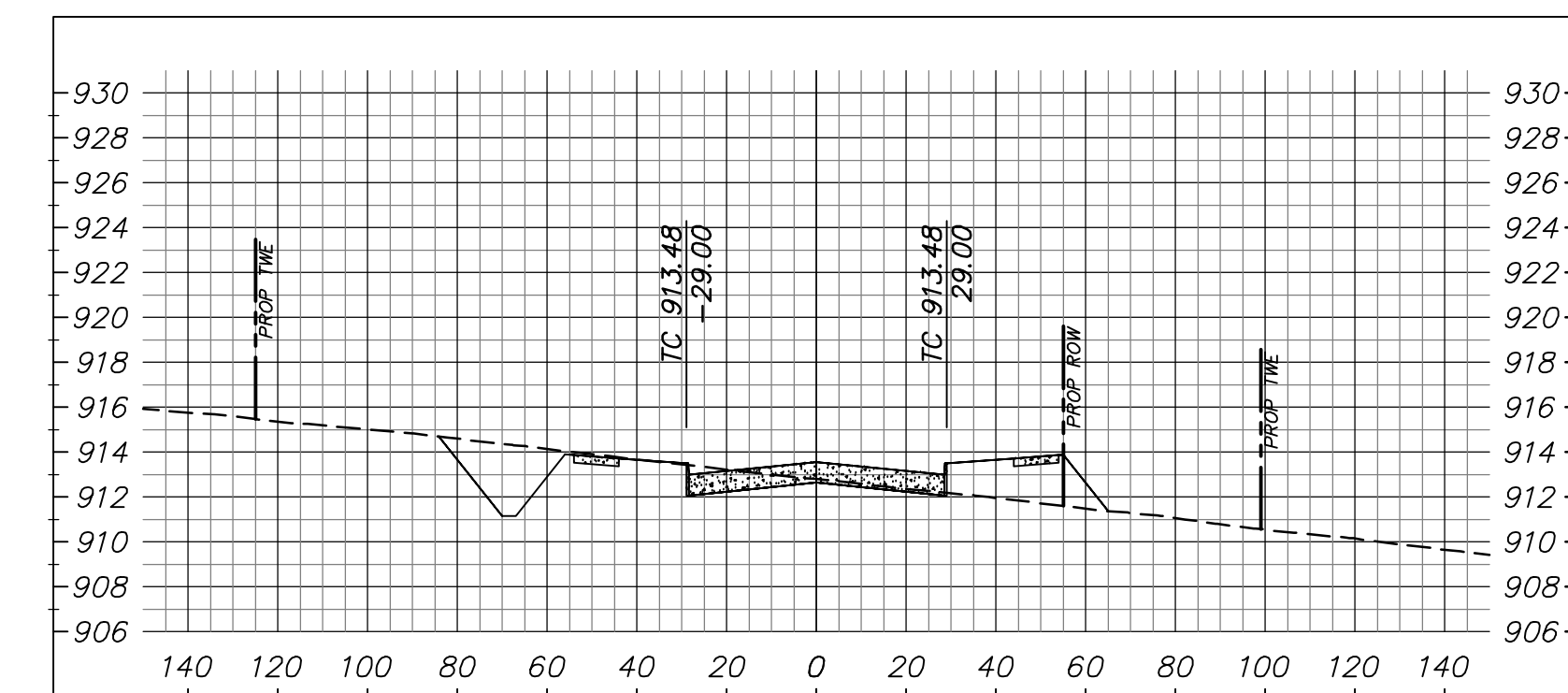
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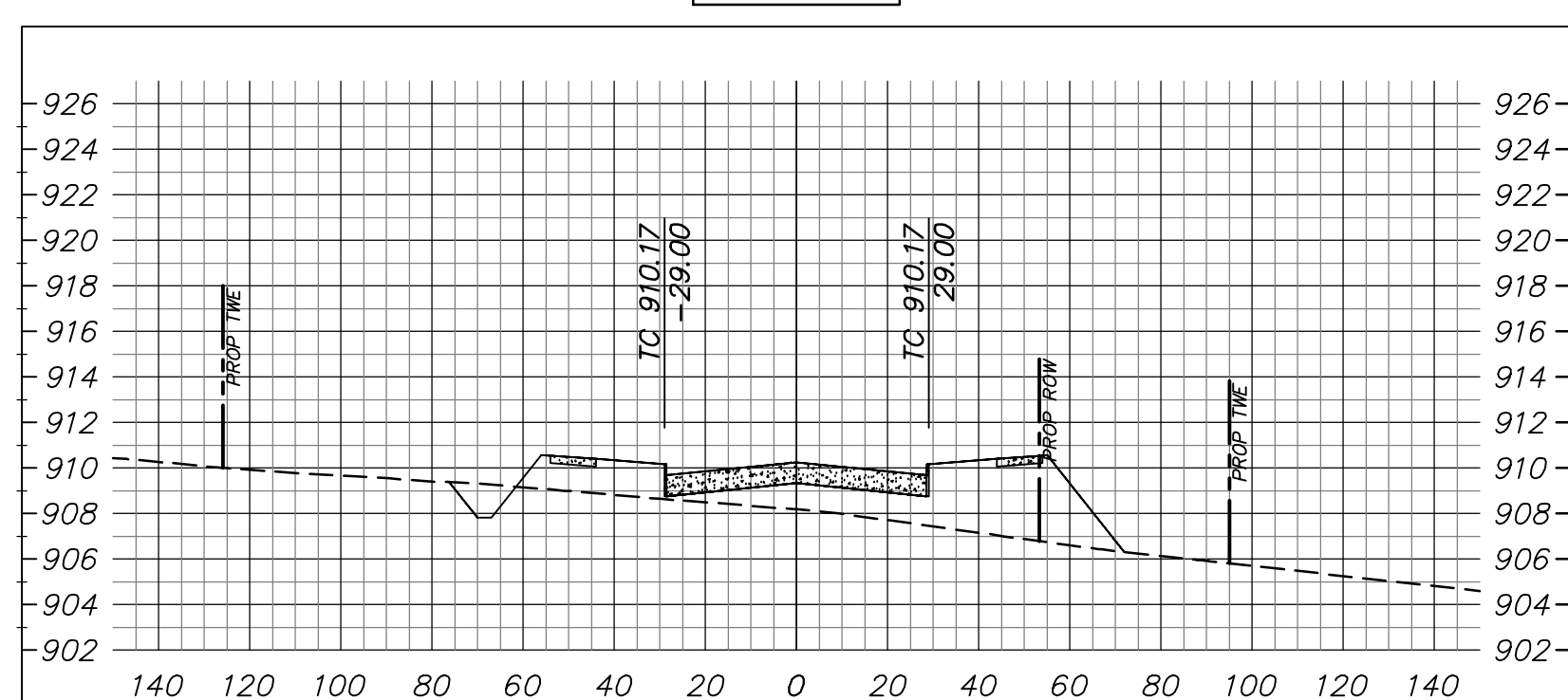
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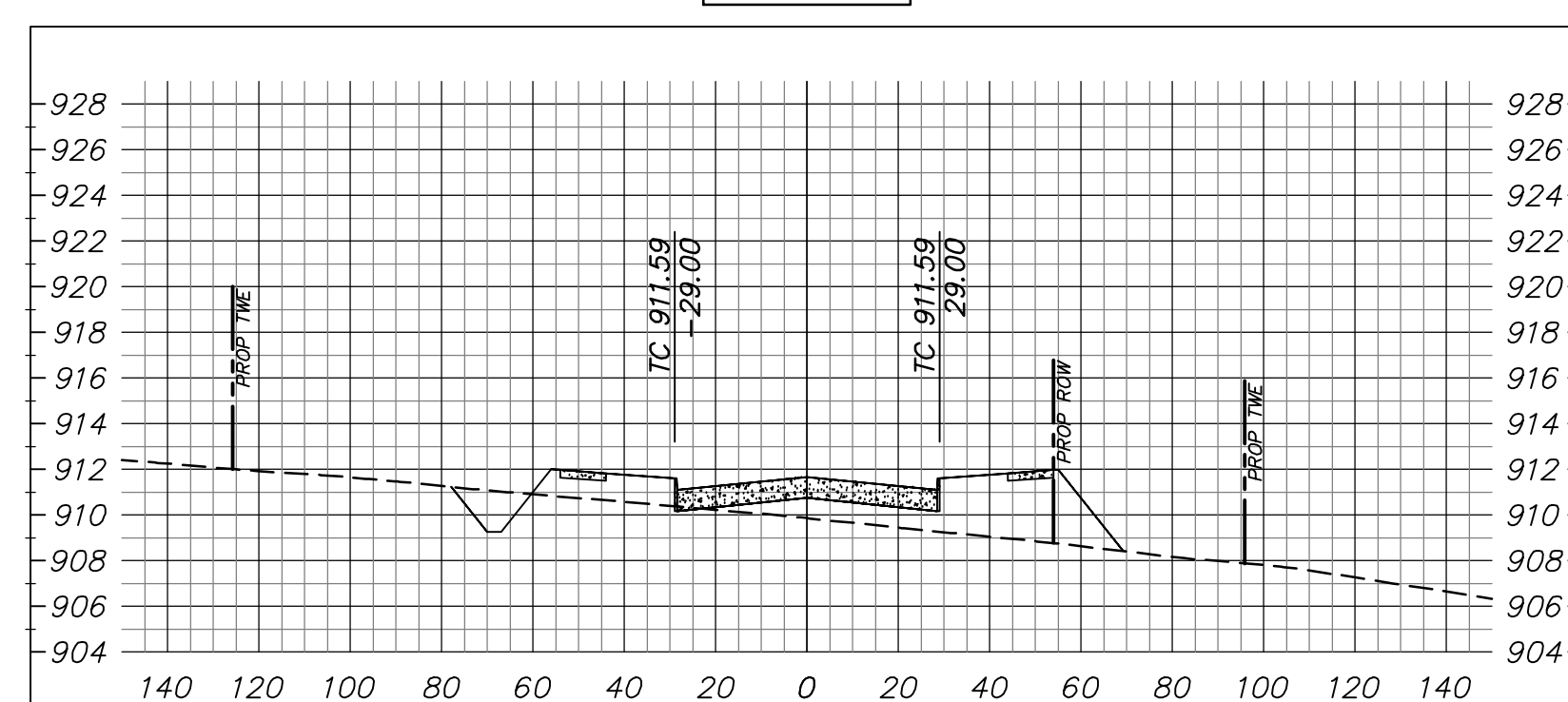
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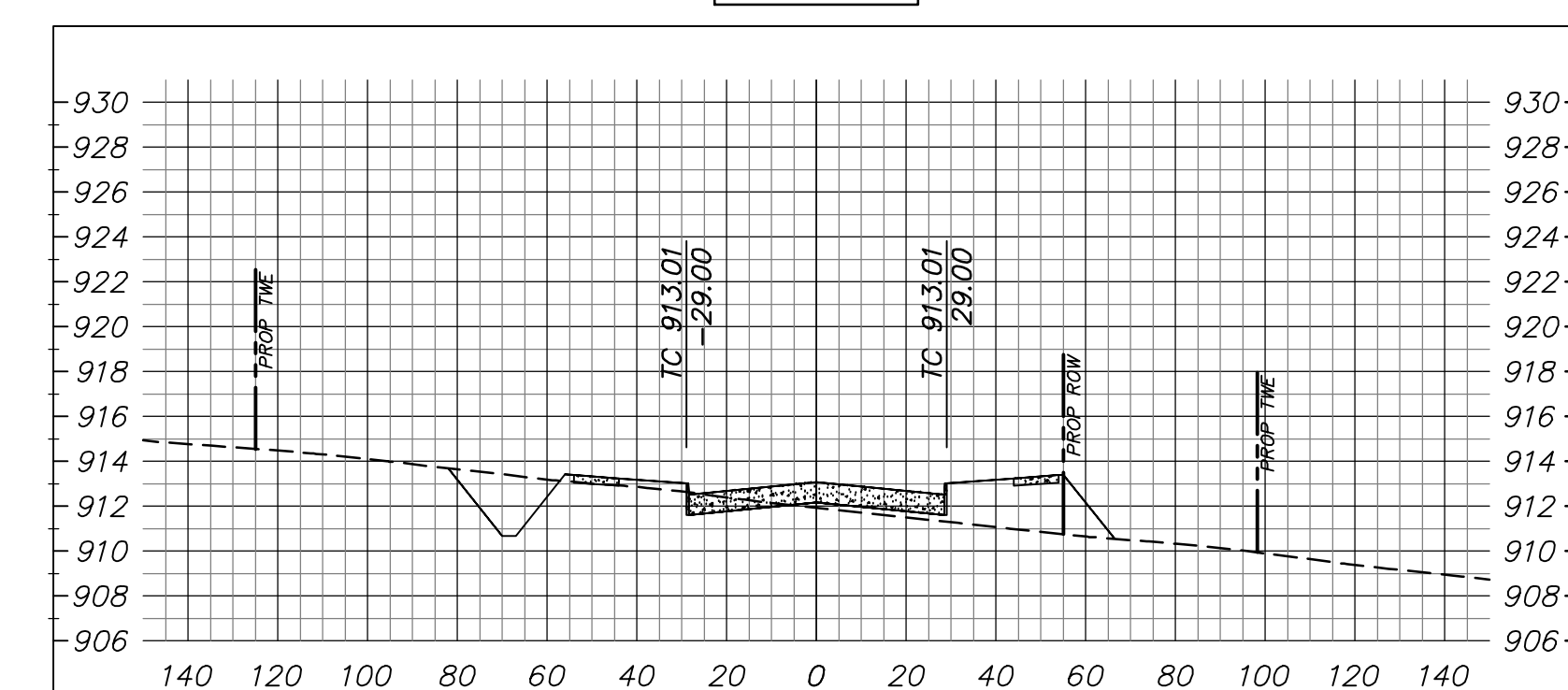
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NO.	REVISION	BY	DATE

QDP	CHECKED
DESIGNED	
JDW	
DRAWN	
LAM	



SCALE	DATE
HORIZ 1" = 40'	OCTOBER 2022
VERT 1" = 8'	

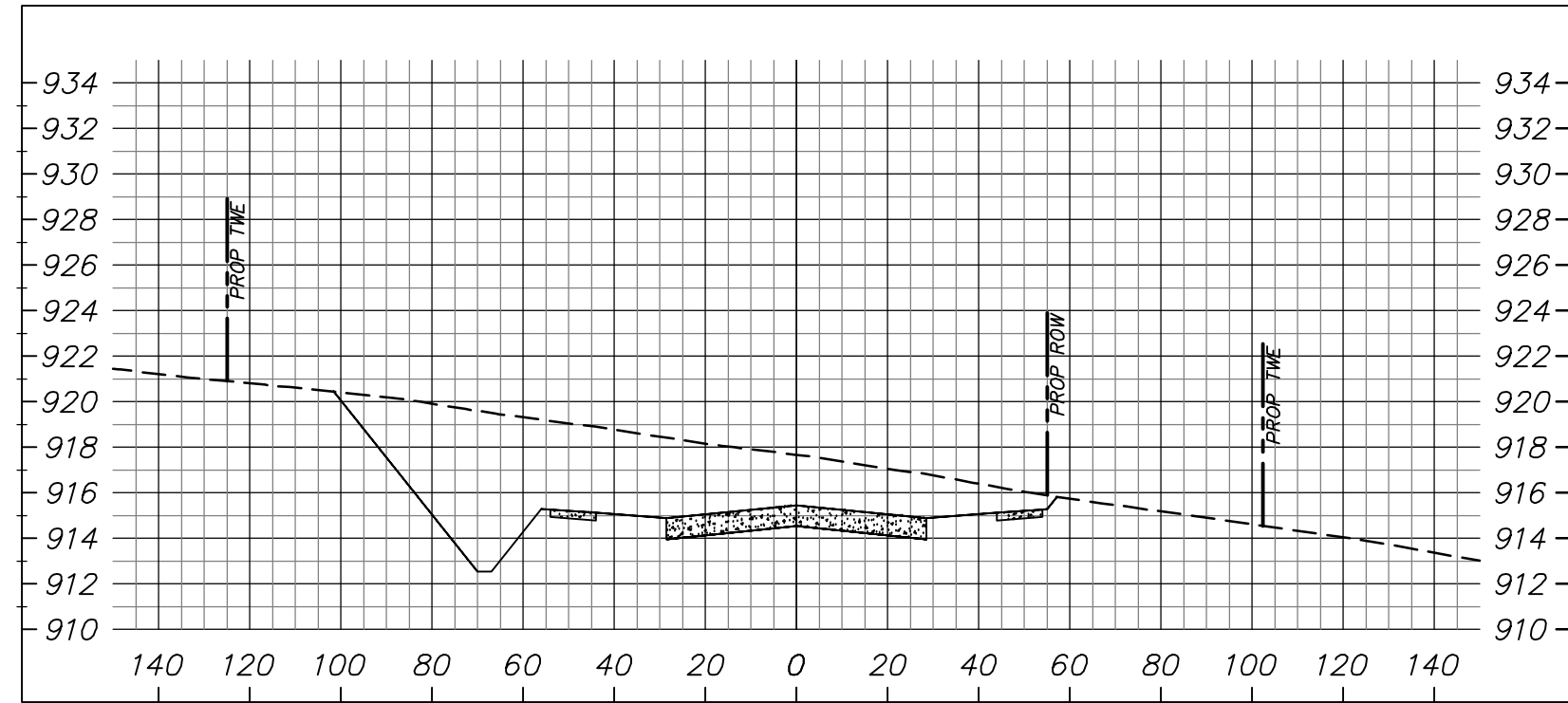
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 Tel: 817.335.1121
 (TX REG. F-1114)

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 QUINTEEN D. PLUMER
 P.E.# 138475 DATE: October 3, 2022

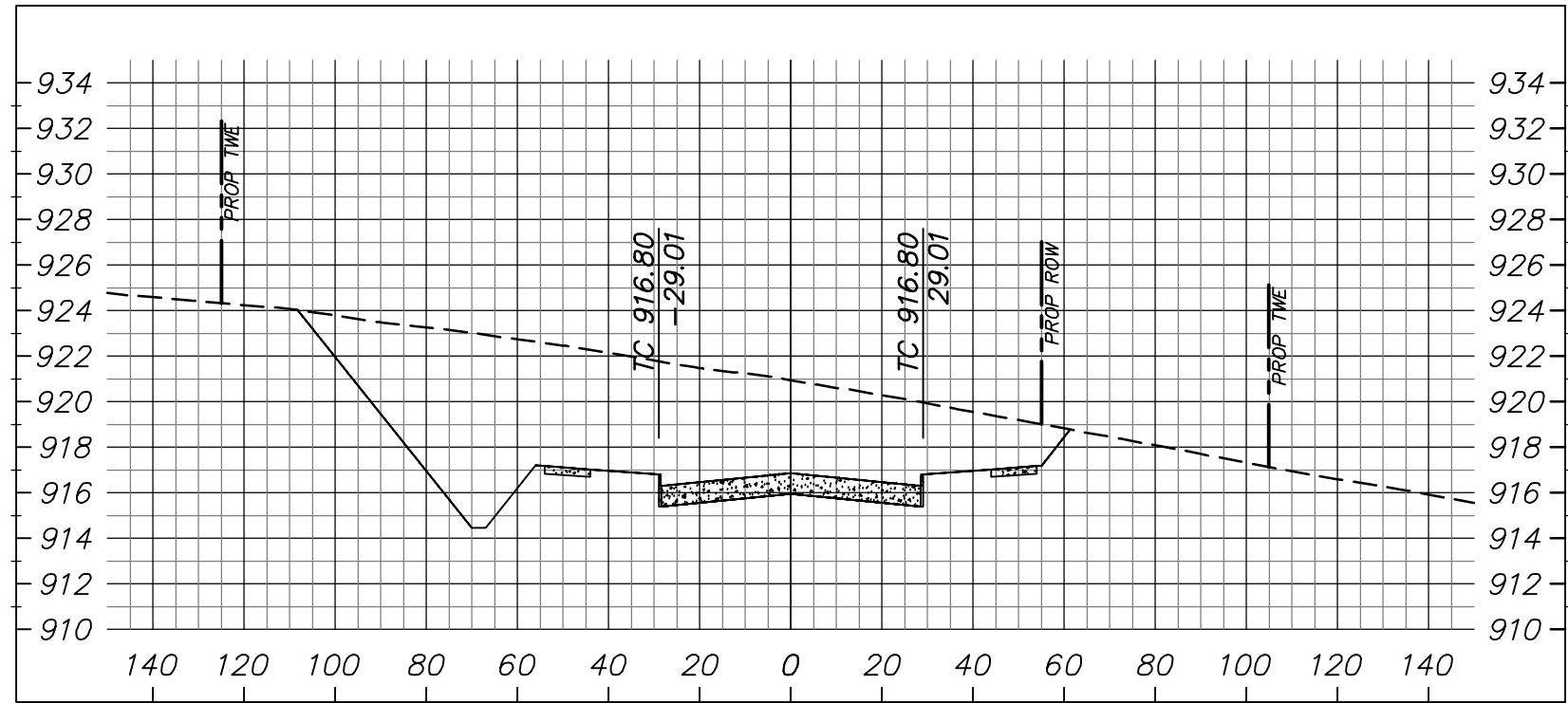
TARRANT COUNTY, TEXAS
 BENTLEY BRIDGE DRIVE
 CROSS SECTIONS - BENTLEY BRIDGE DRIVE STA 23+50 TO STA 27+50

DA PROJECT 2001169.033
SHEET 19

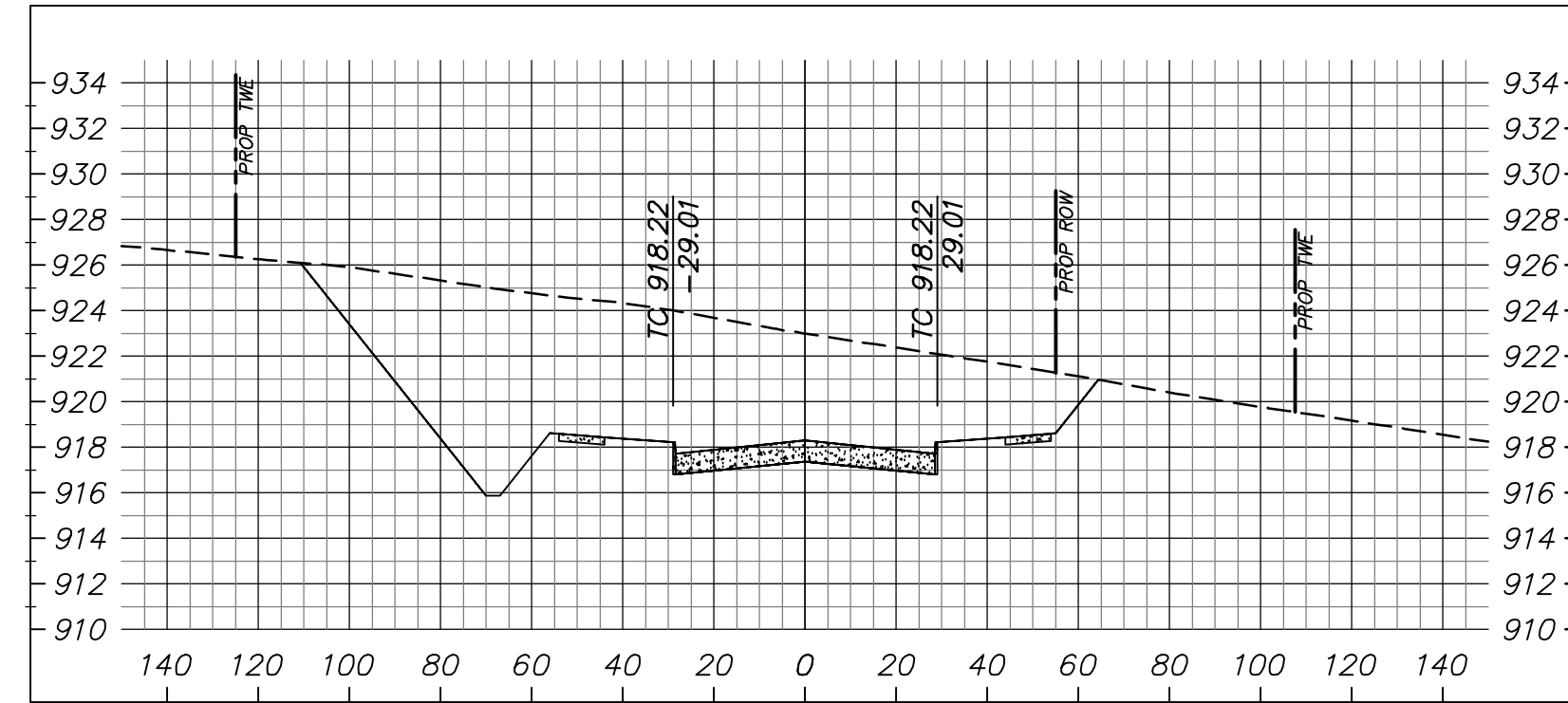
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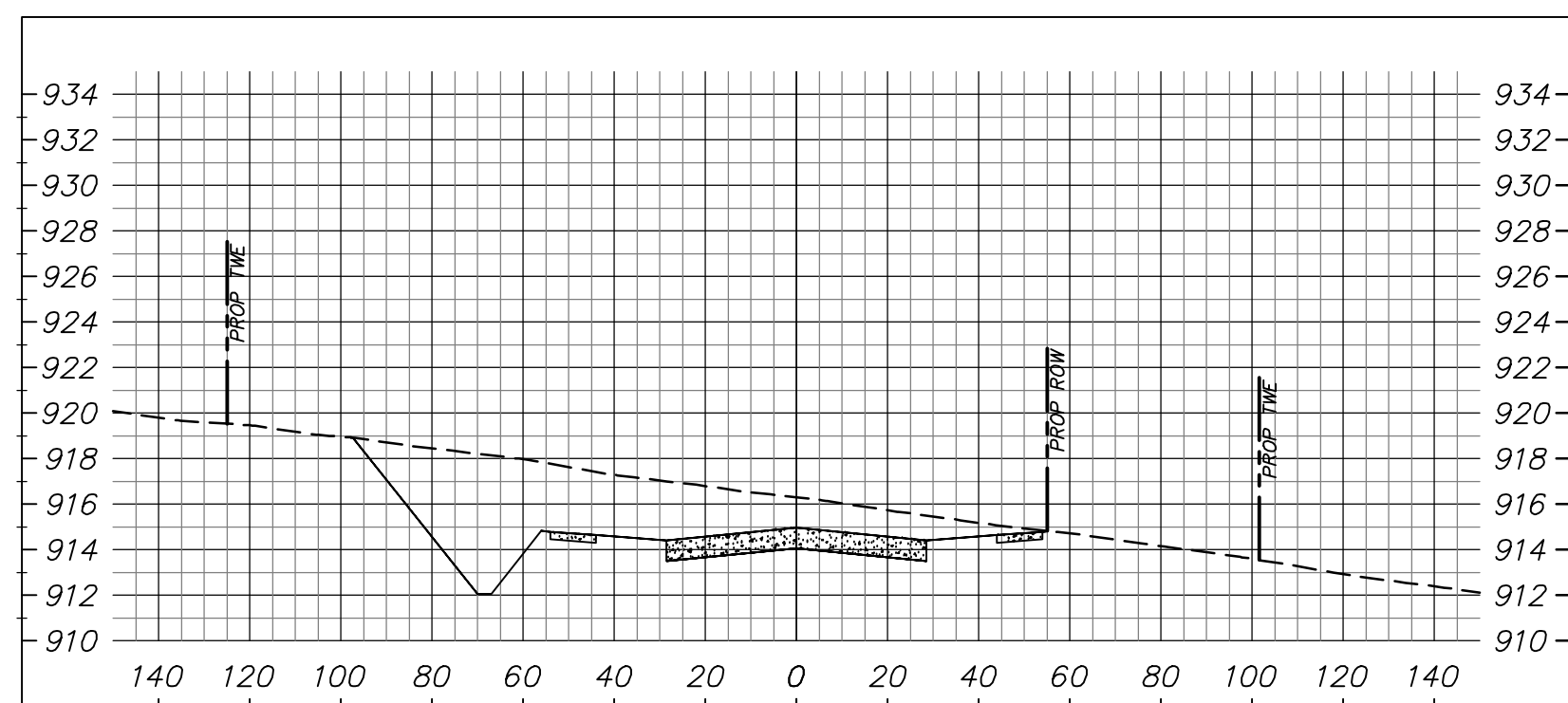
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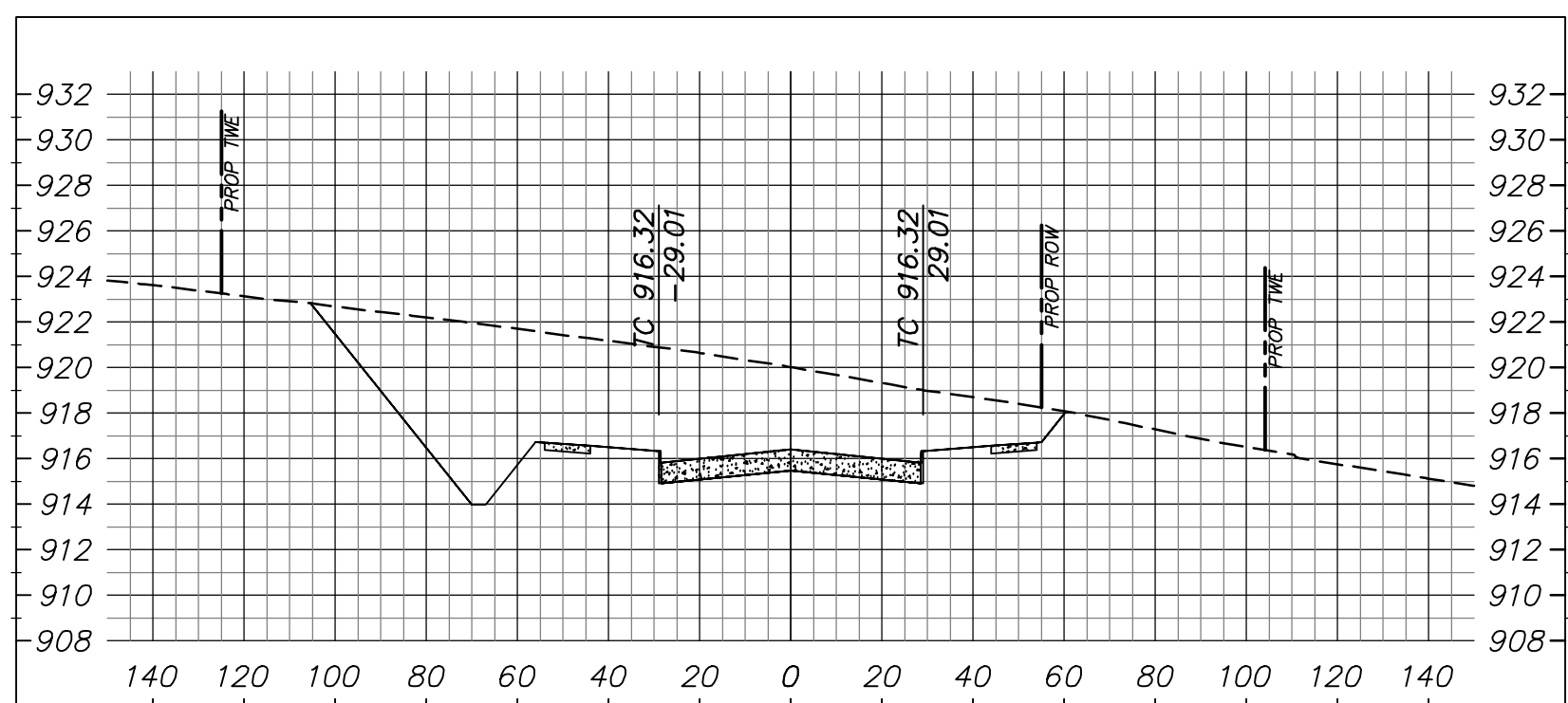
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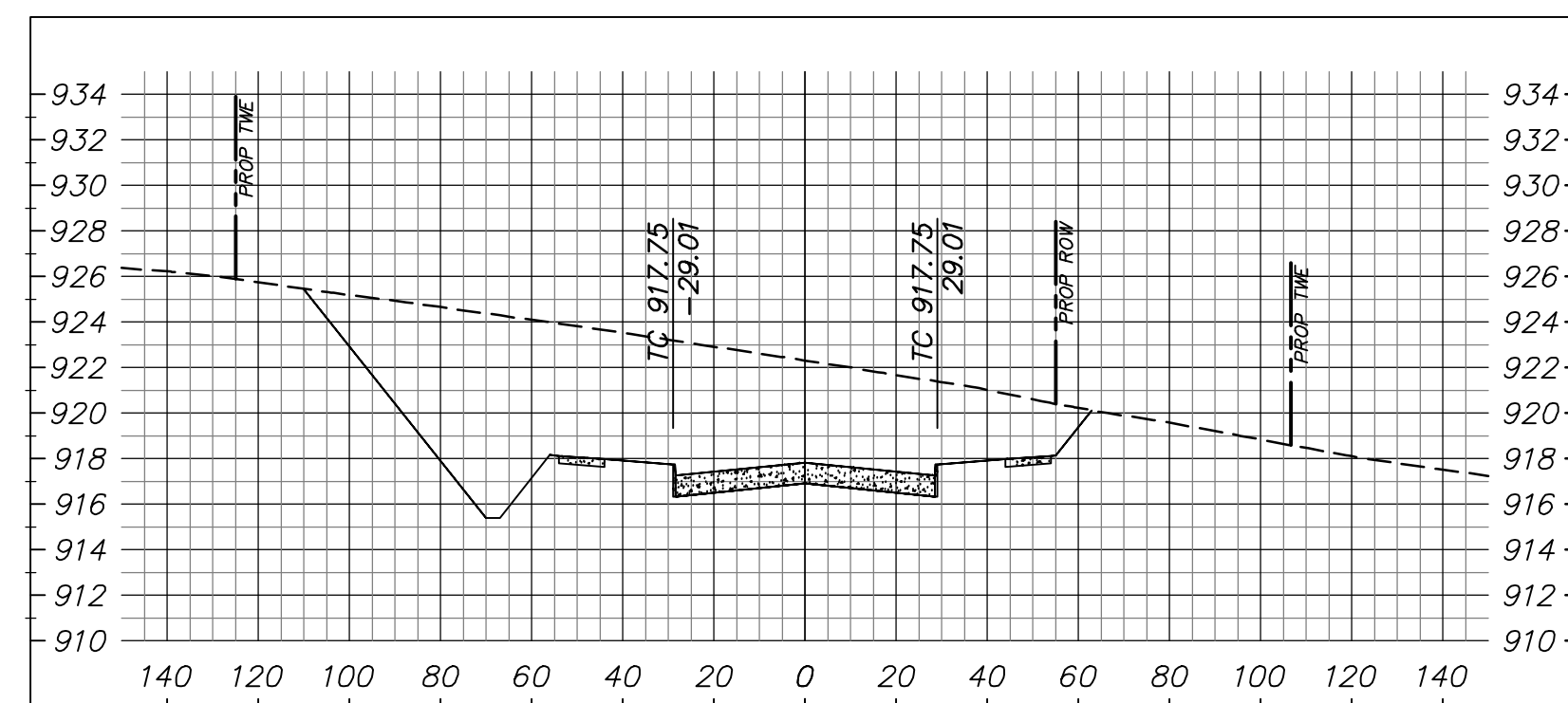
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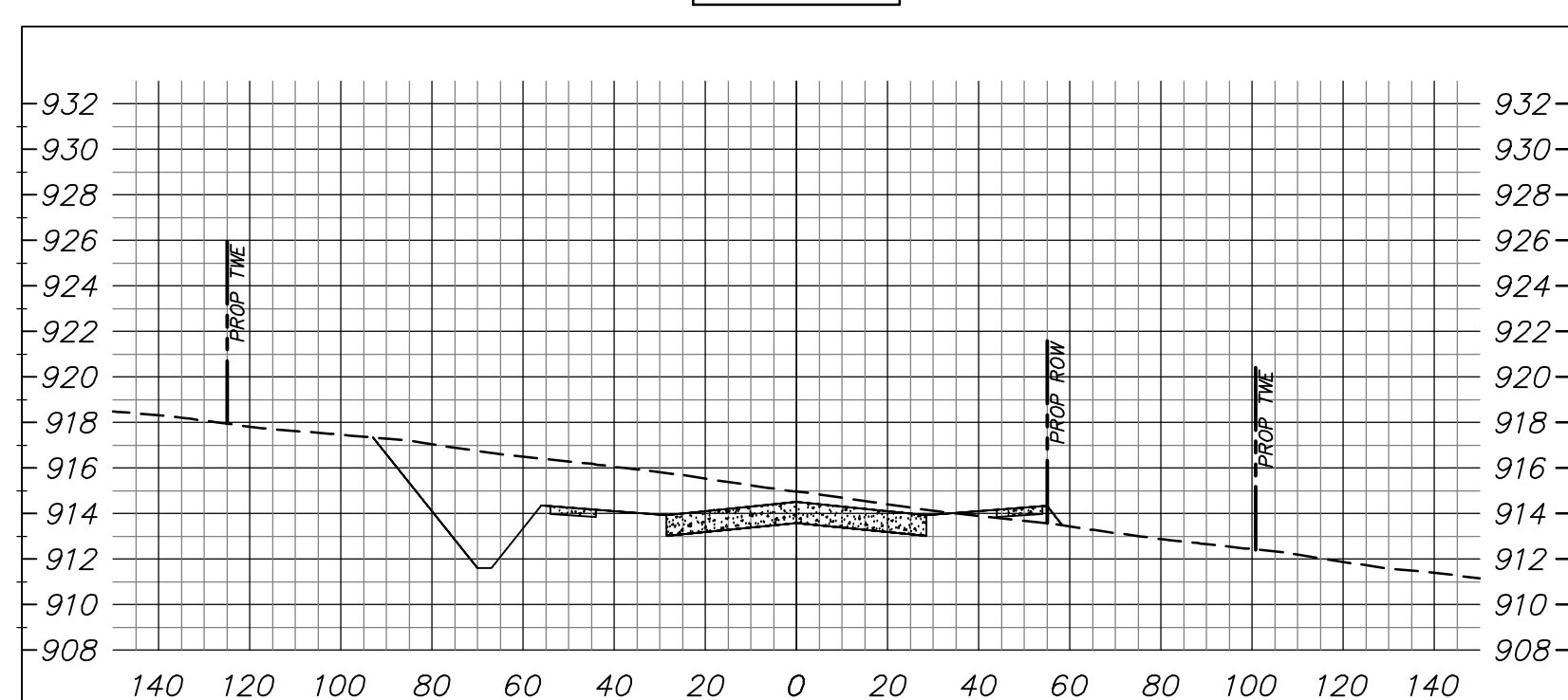
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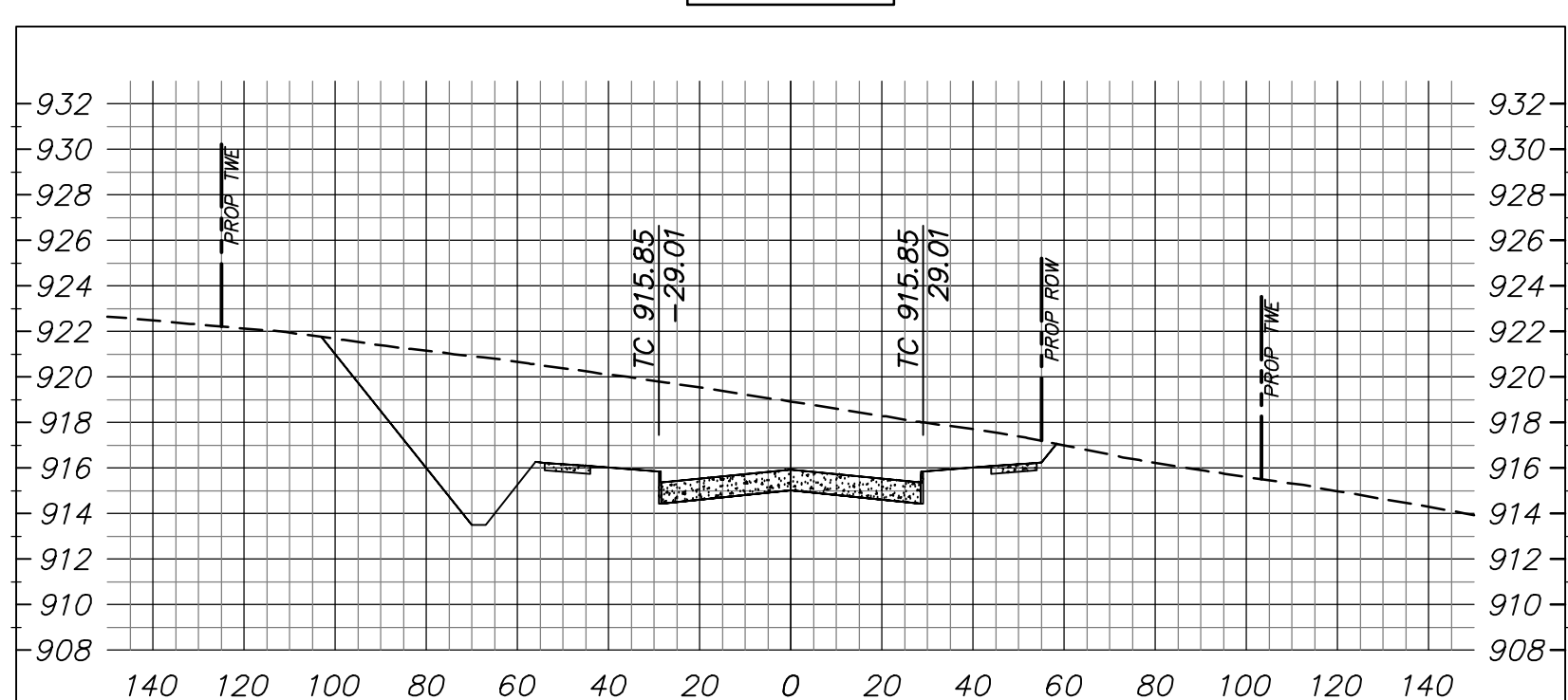
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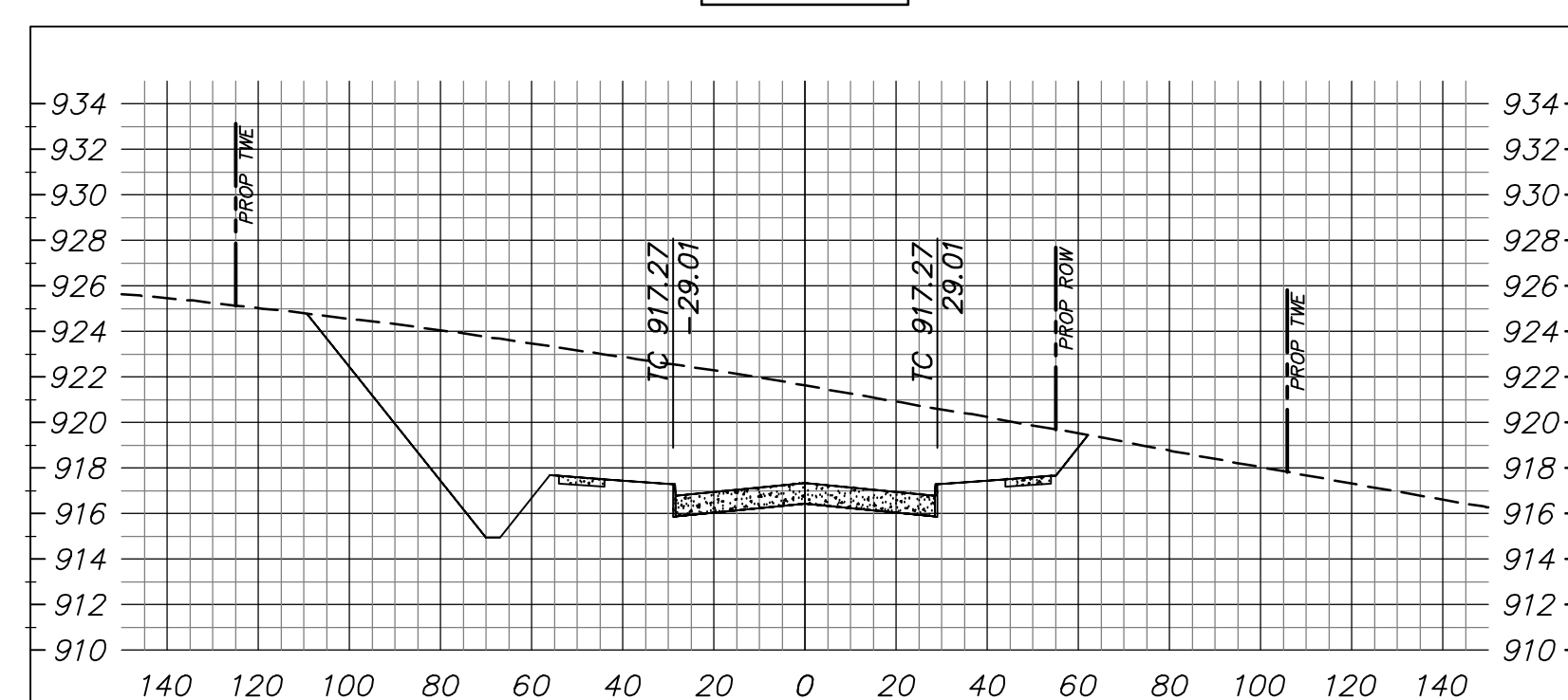
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28+00.00



29+50.00



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 PLOTTED AT: 7:42:29 PM

NO.	REVISION	BY	DATE

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DESIGNED	
JDW	
DRAWN	
LAM	



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VERT 1" = 8'	

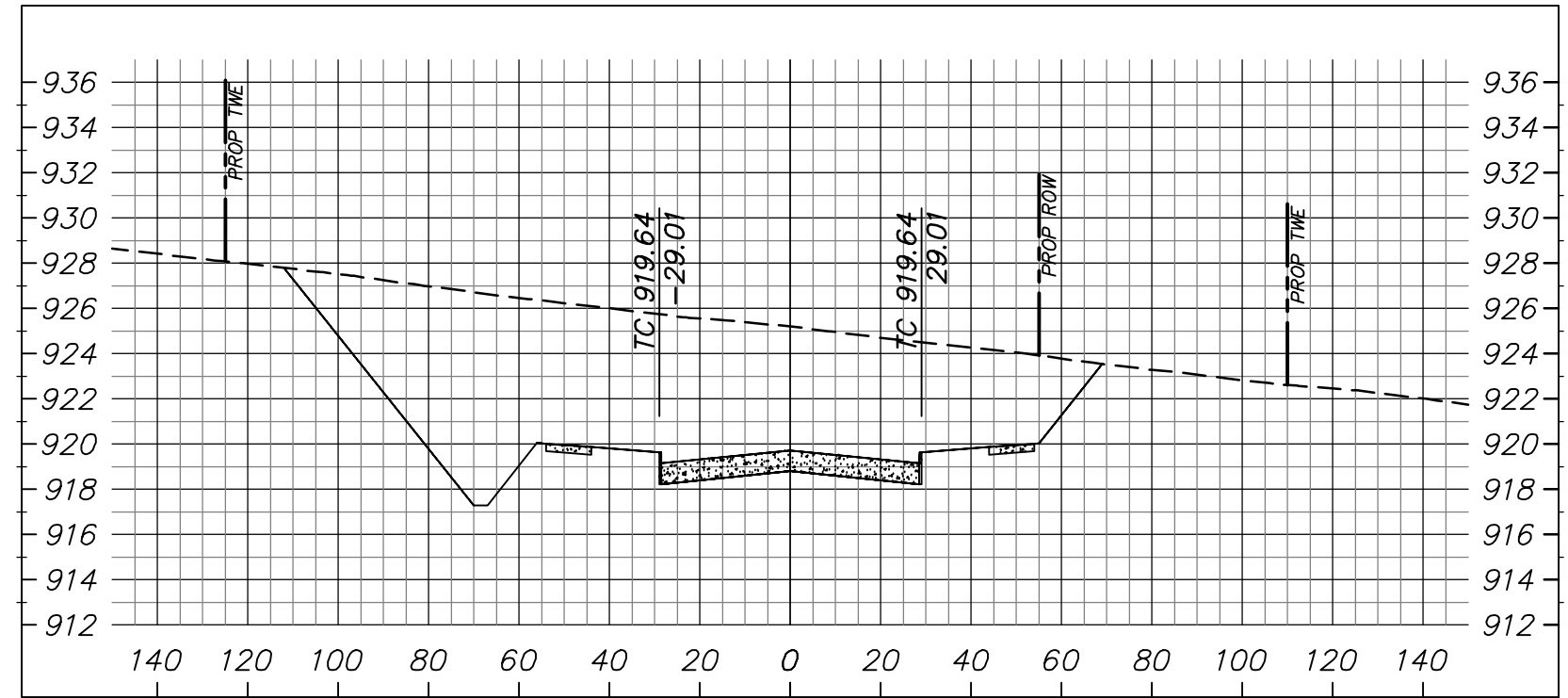

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 BY, OR UNDER THE SUPERVISION OF:
 QUINTEN D. PLUMER
 P.E.# 138475 DATE: October 3, 2022

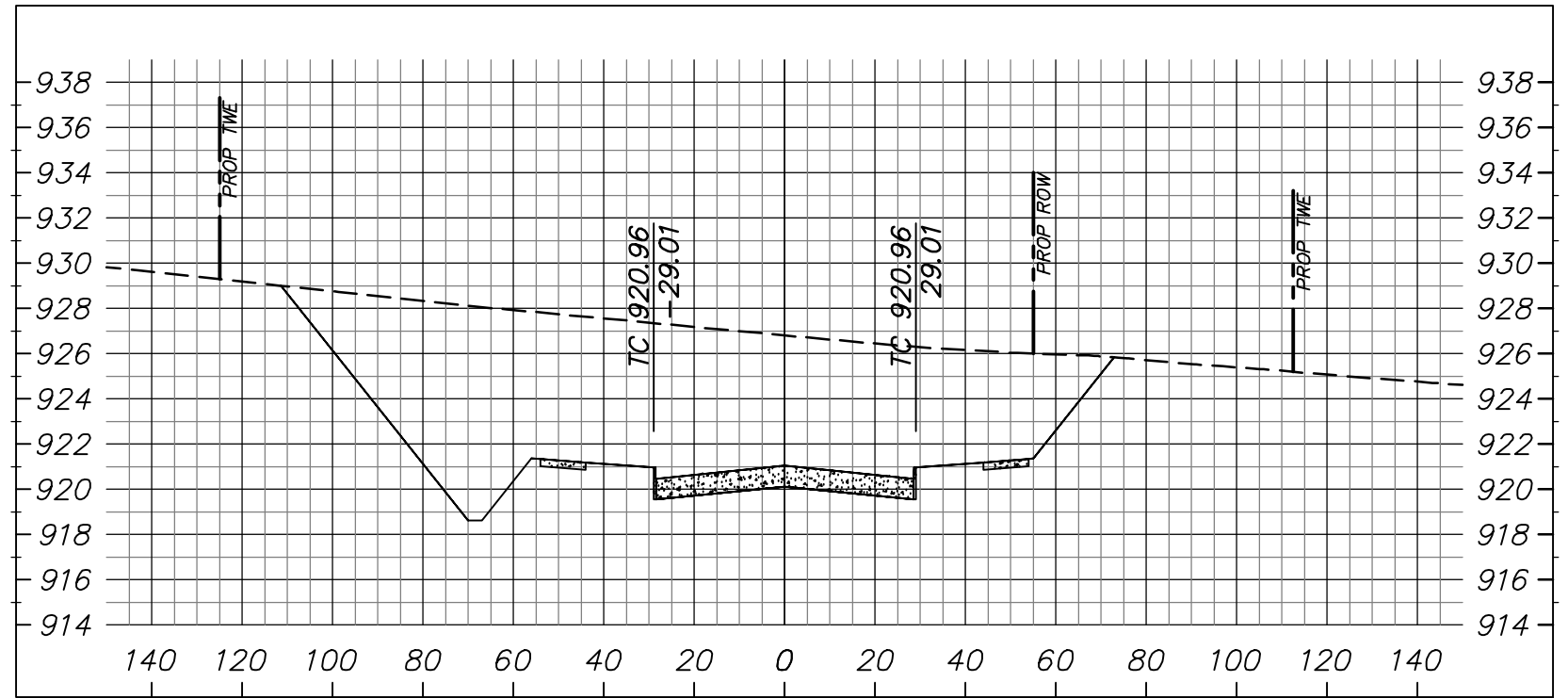
TARRANT COUNTY, TEXAS
BENTLEY BRIDGE DRIVE
CROSS SECTIONS - BENTLEY BRIDGE DRIVE STA 28+00 TO STA 32+00

DA PROJECT 2001169.033
SHEET 20

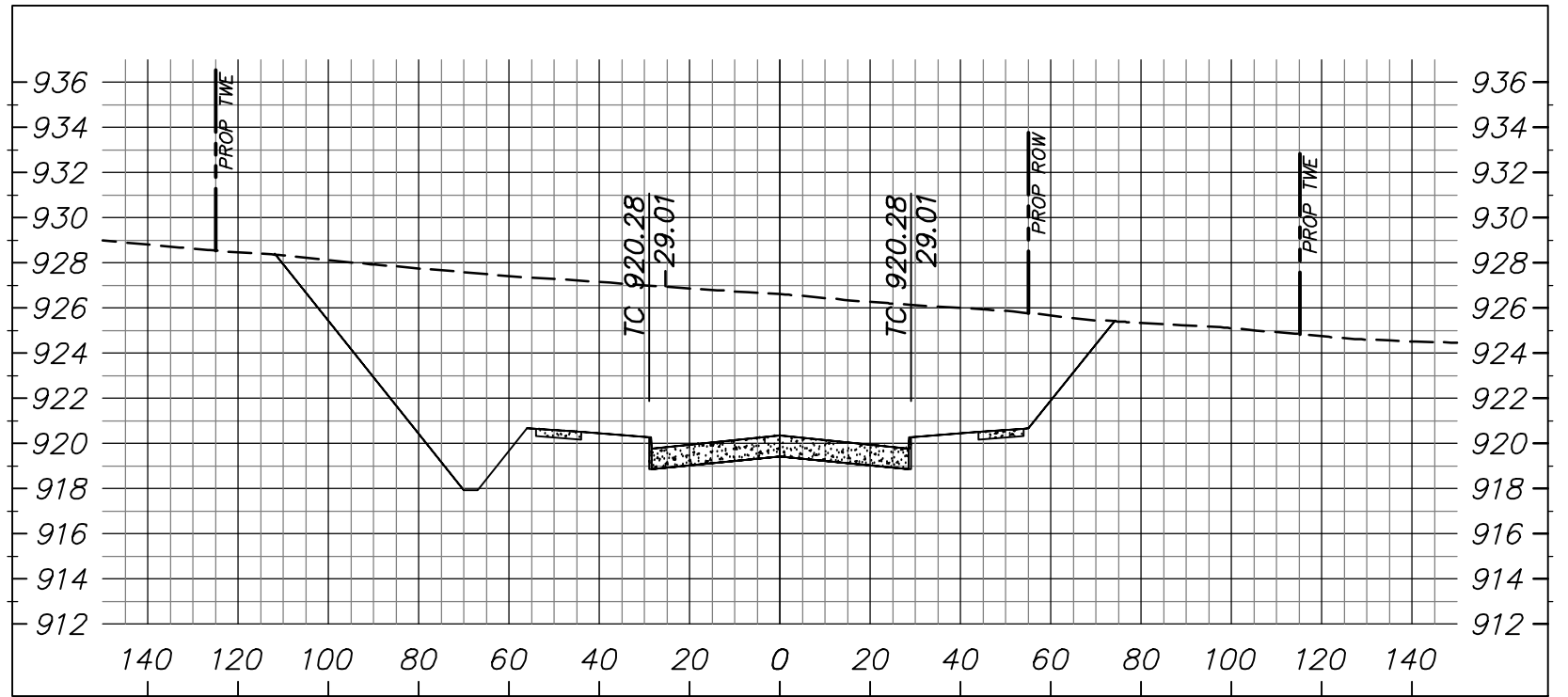
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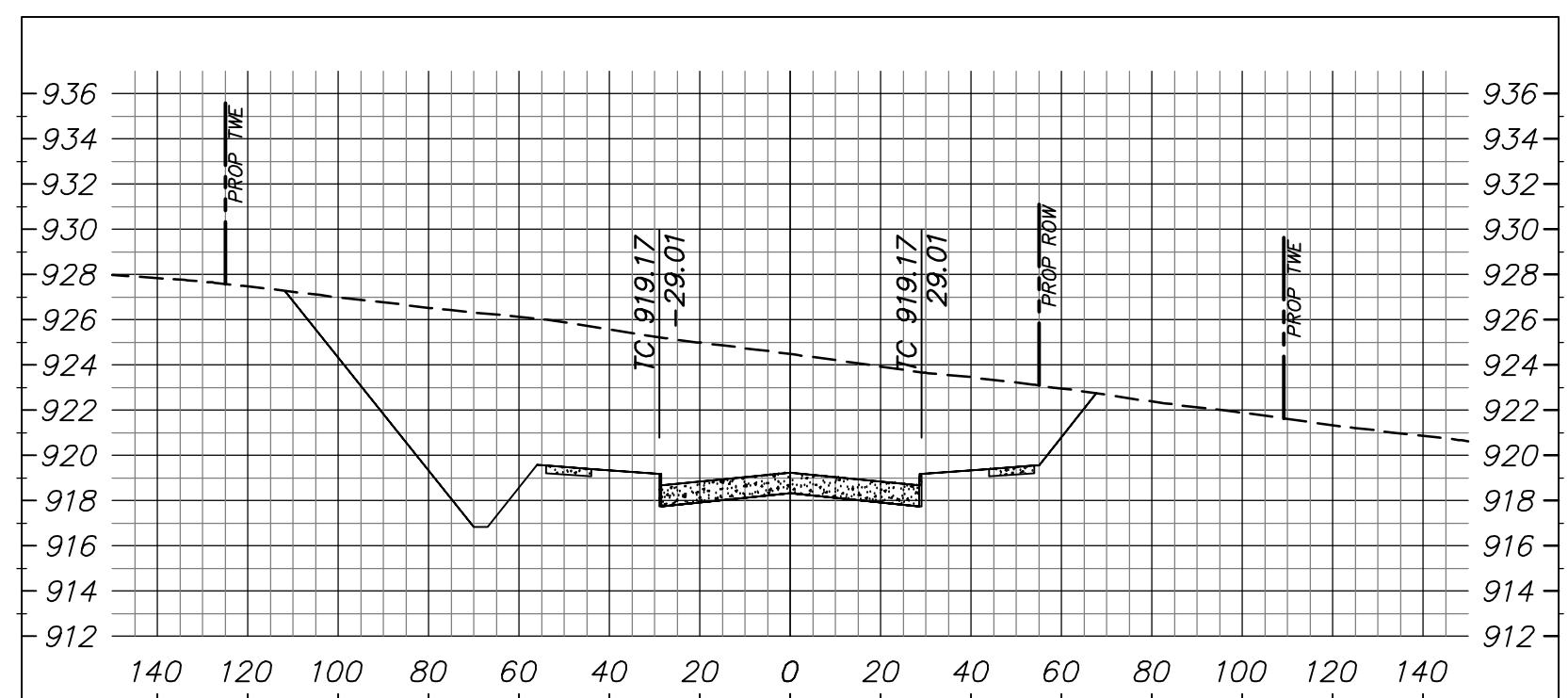
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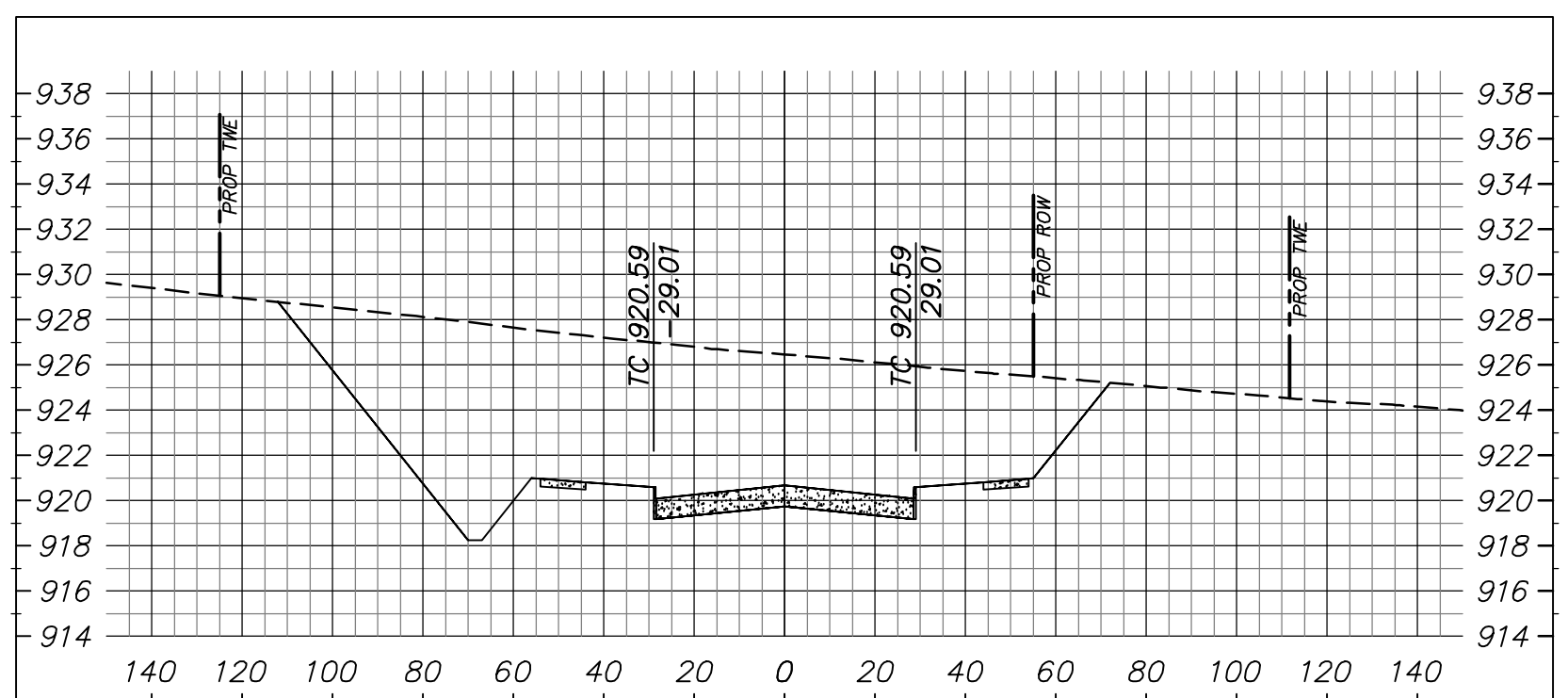
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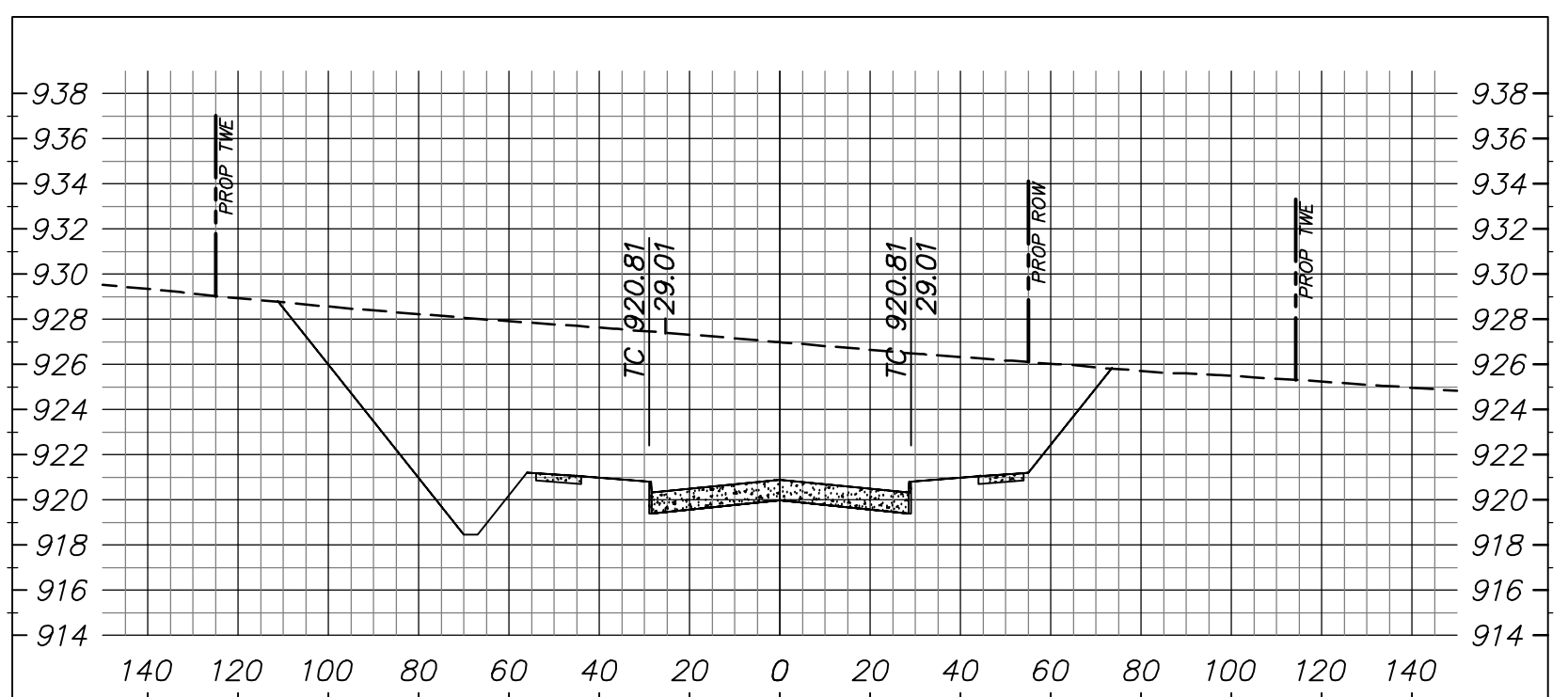
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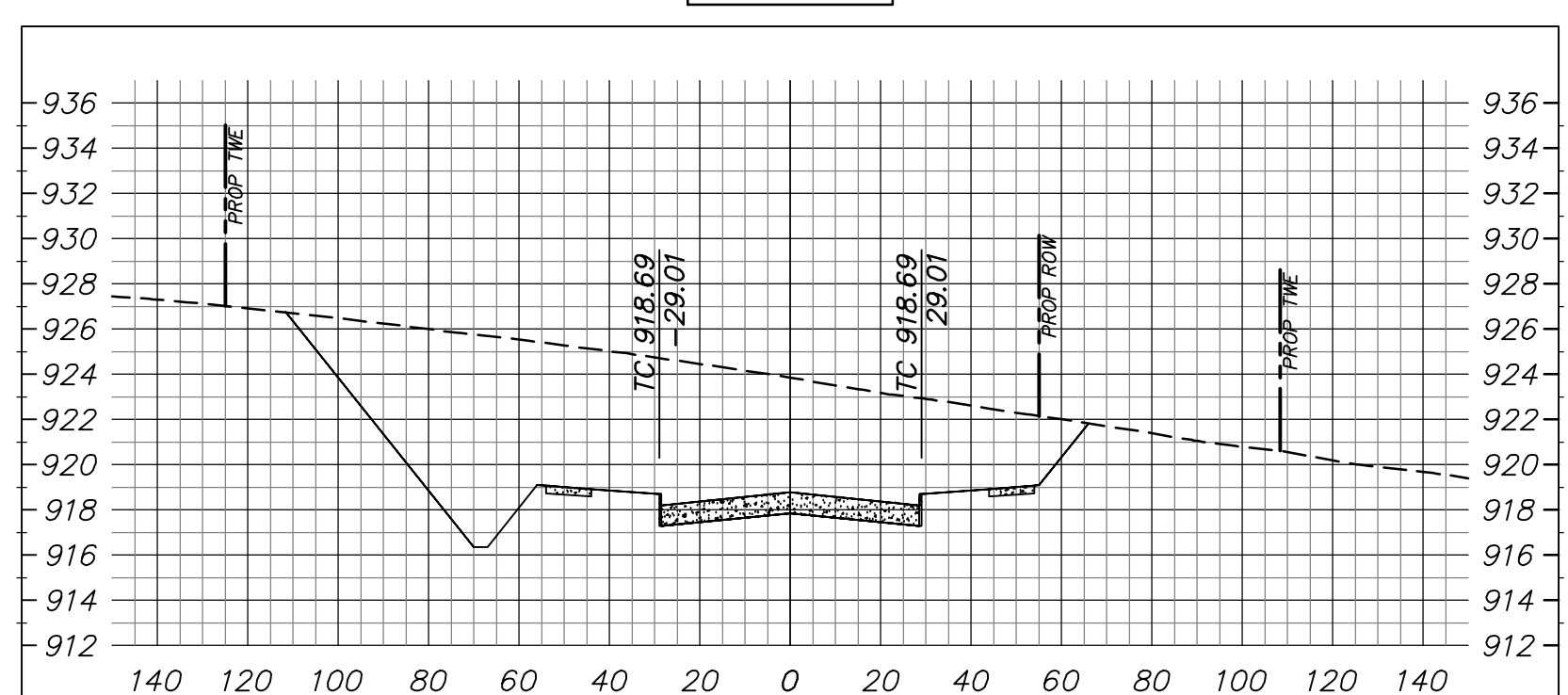
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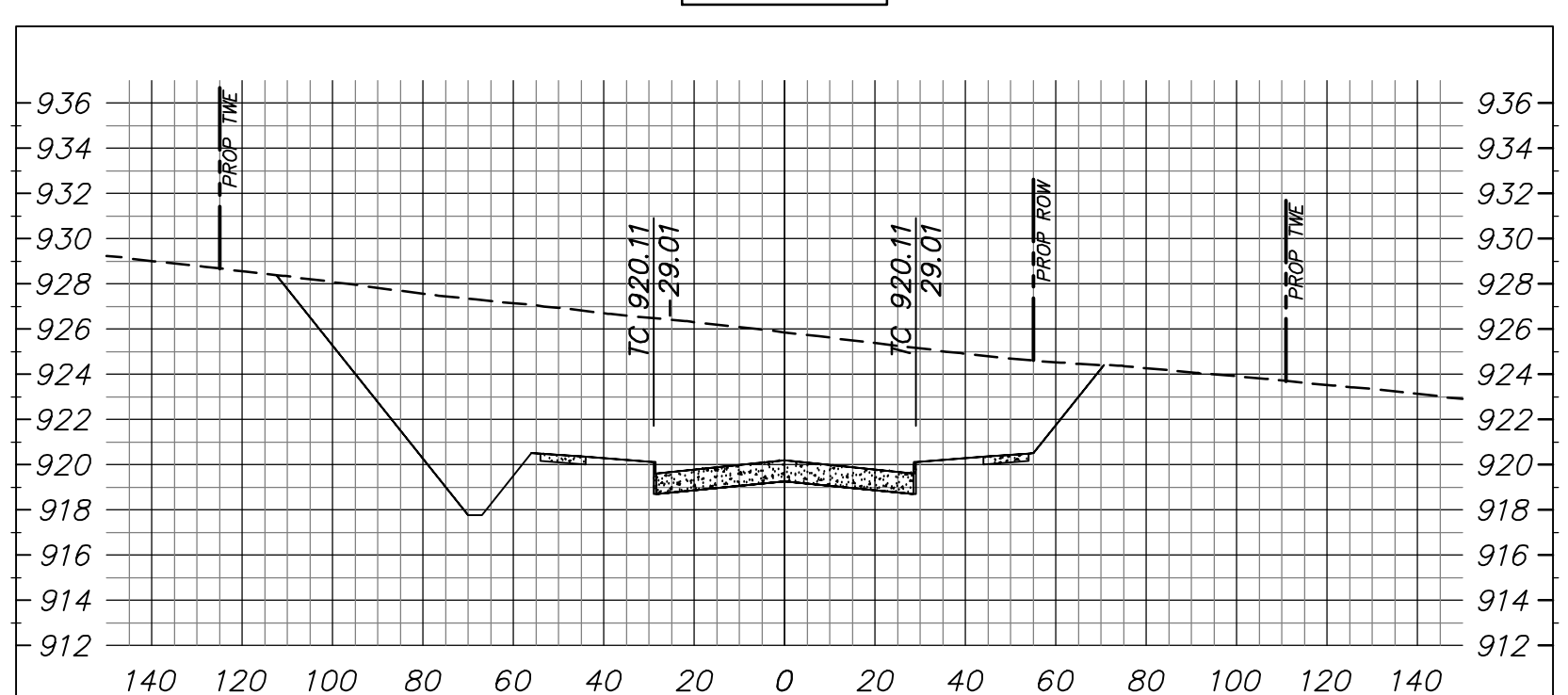
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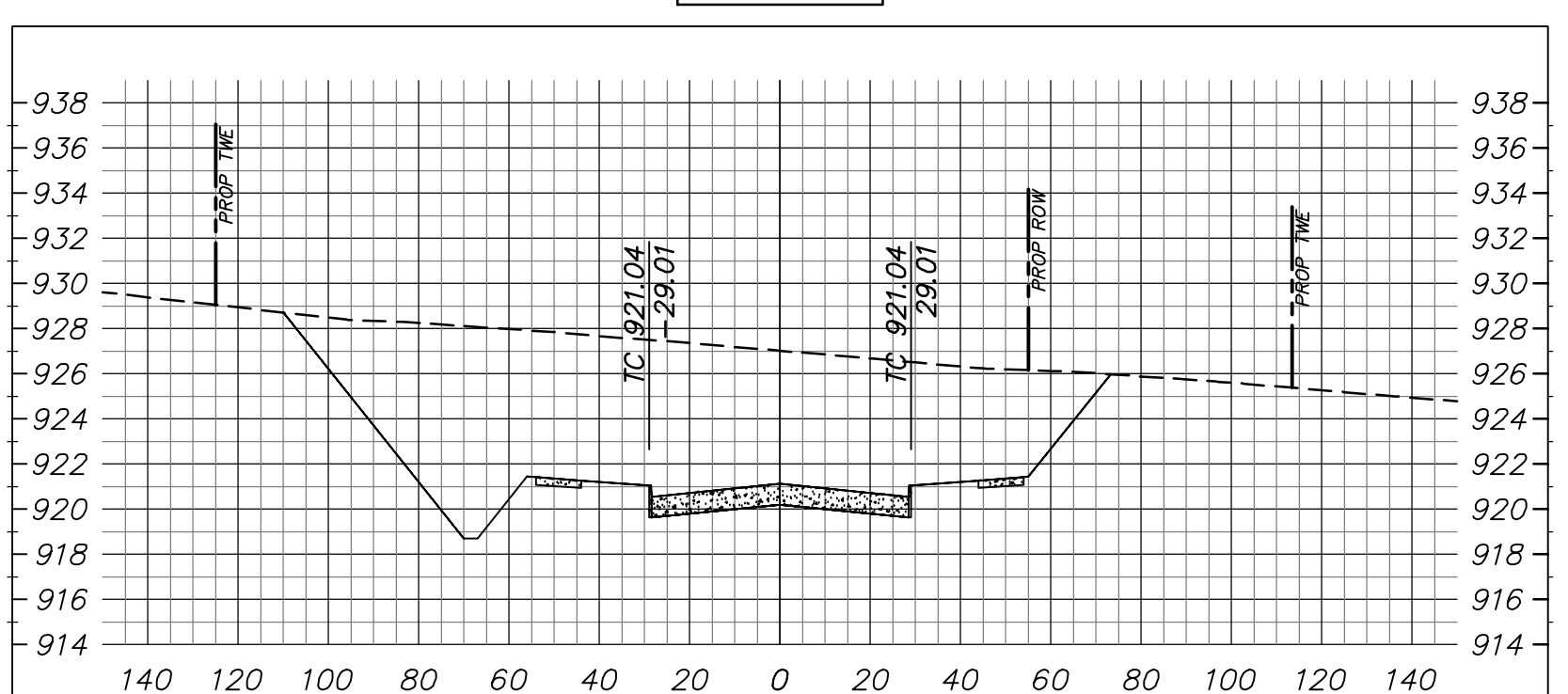
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 PLOTTED AT: 7:42:28 PM

NO.	REVISION	BY	DATE

QDP	CHECKED
DESIGNED	
JDW	
DRAWN	
LAM	



SCALE	DATE
HORIZ 1" = 40'	OCTOBER 2022
VERT 1" = 8'	

550 Bailey Avenue • Suite 400 • Fort Worth, Texas 76107
 Tel: 817.335.1121
 (TX REG. F-1114)

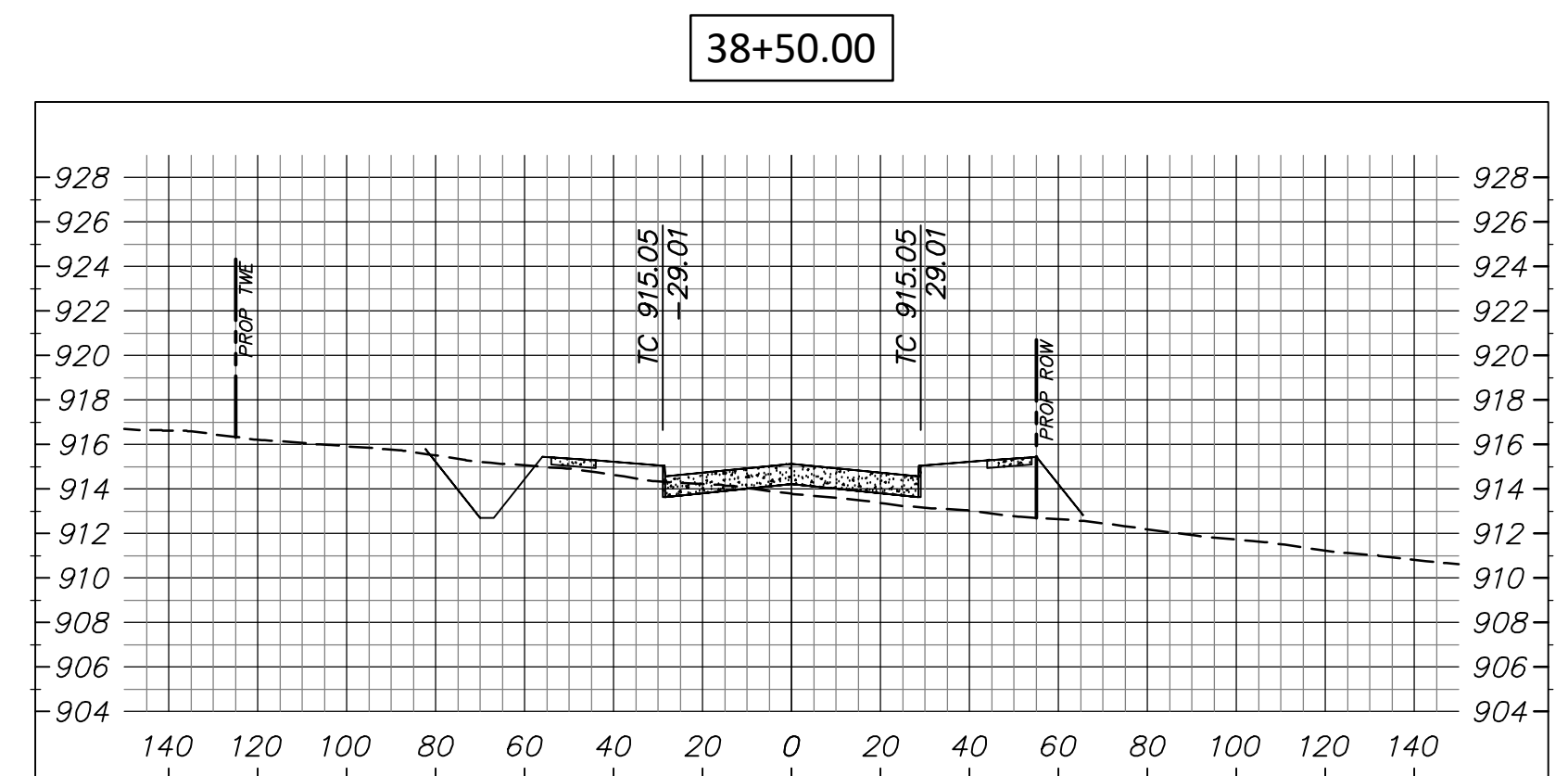
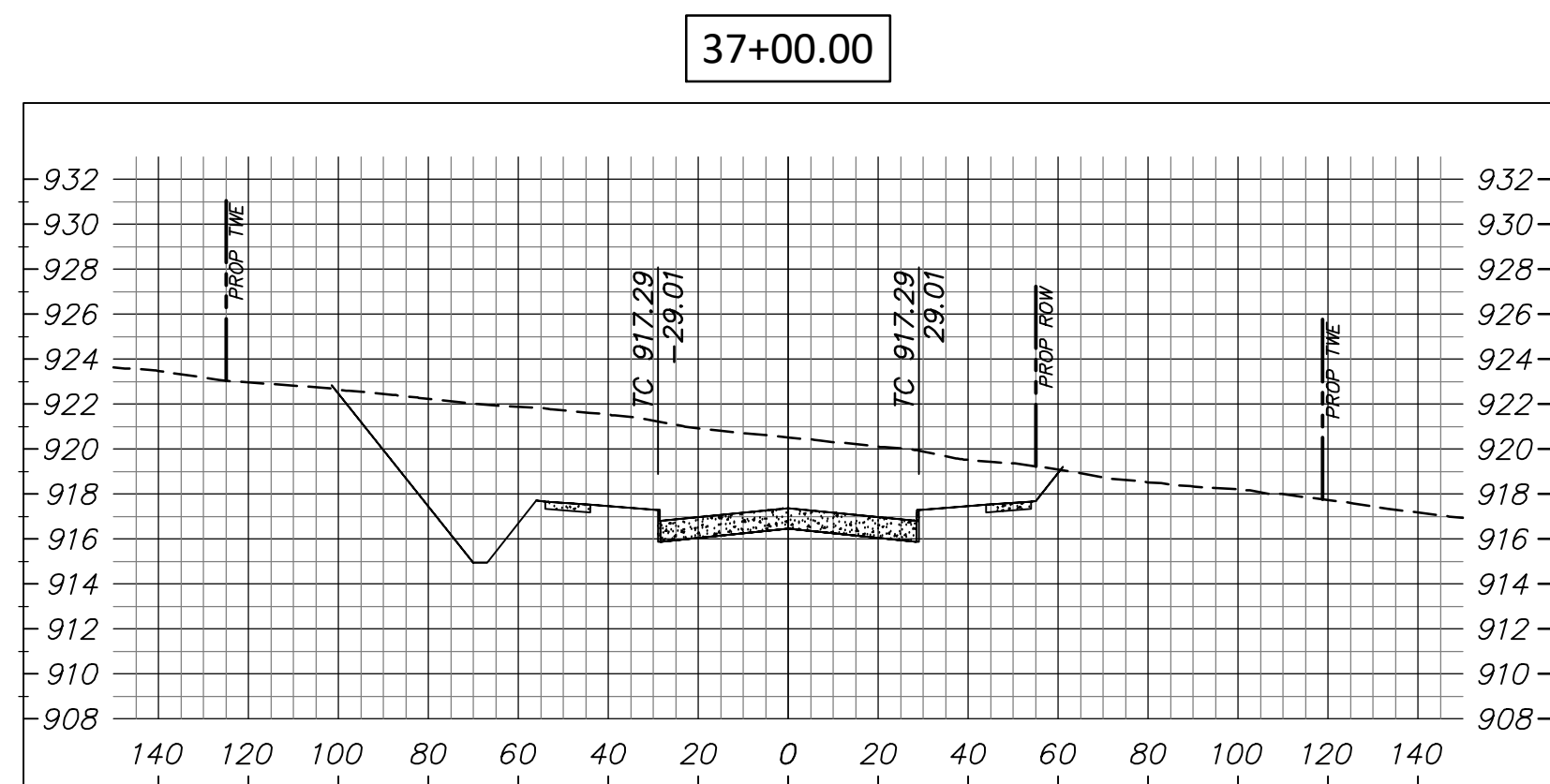
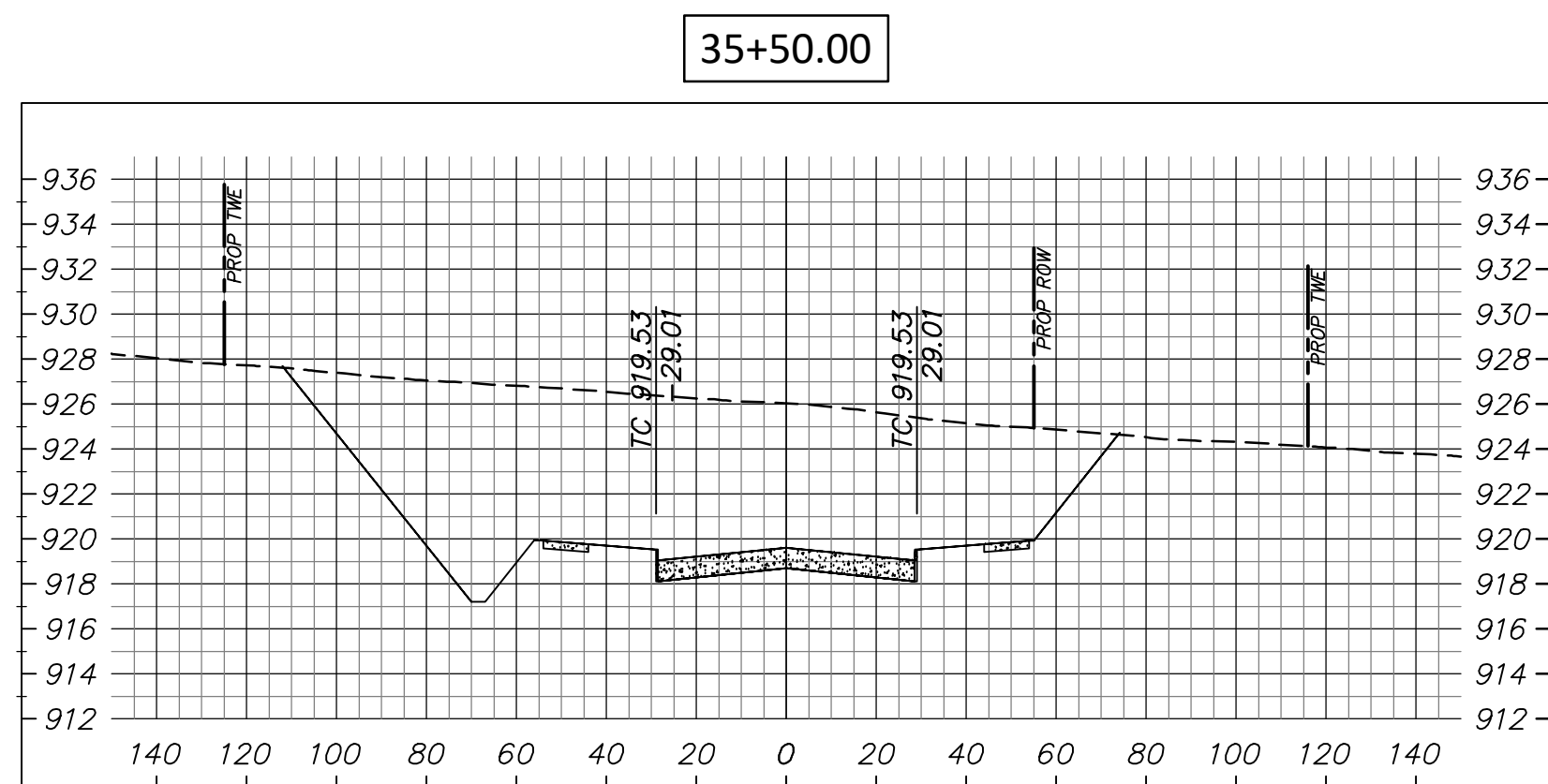
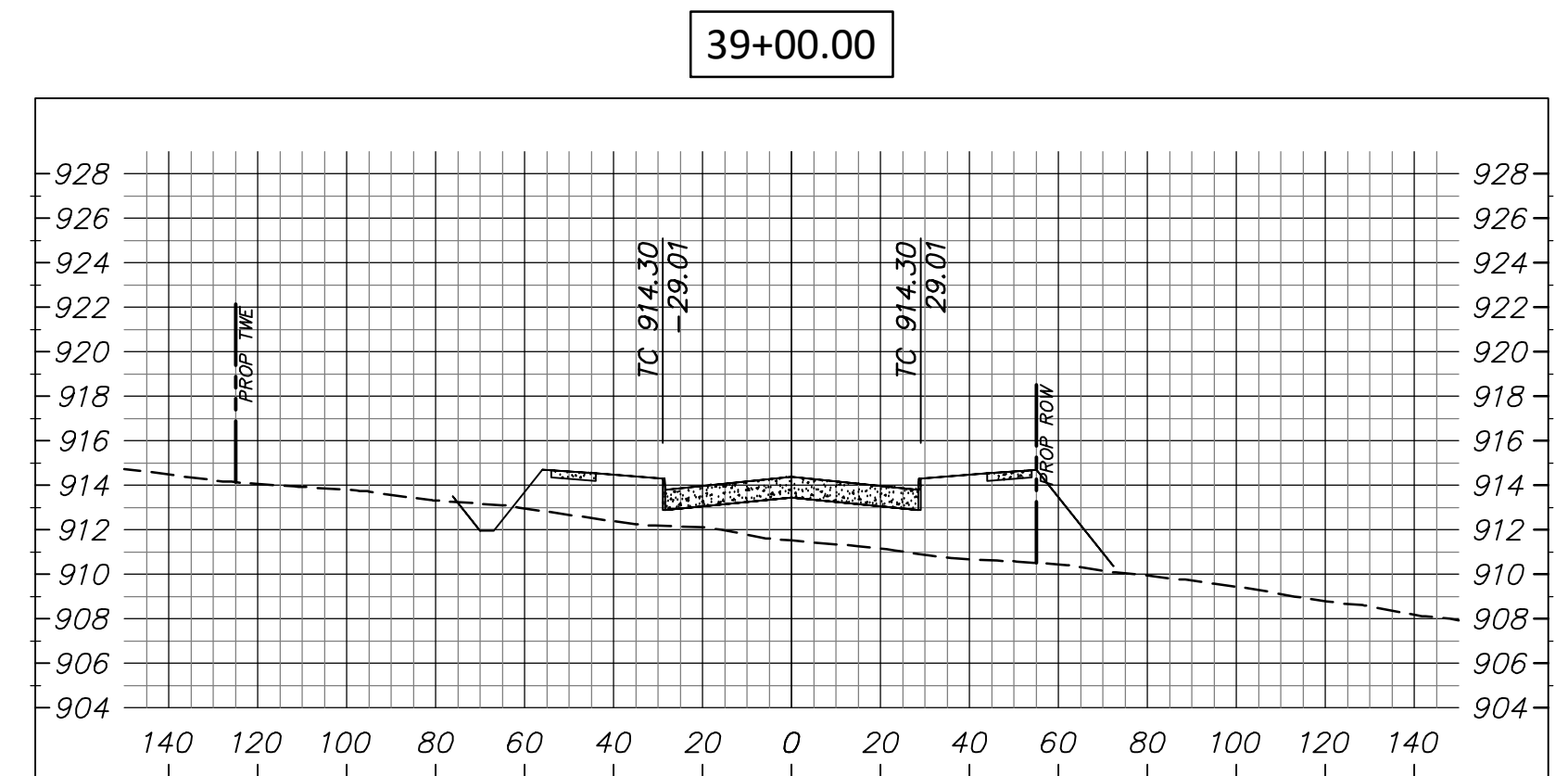
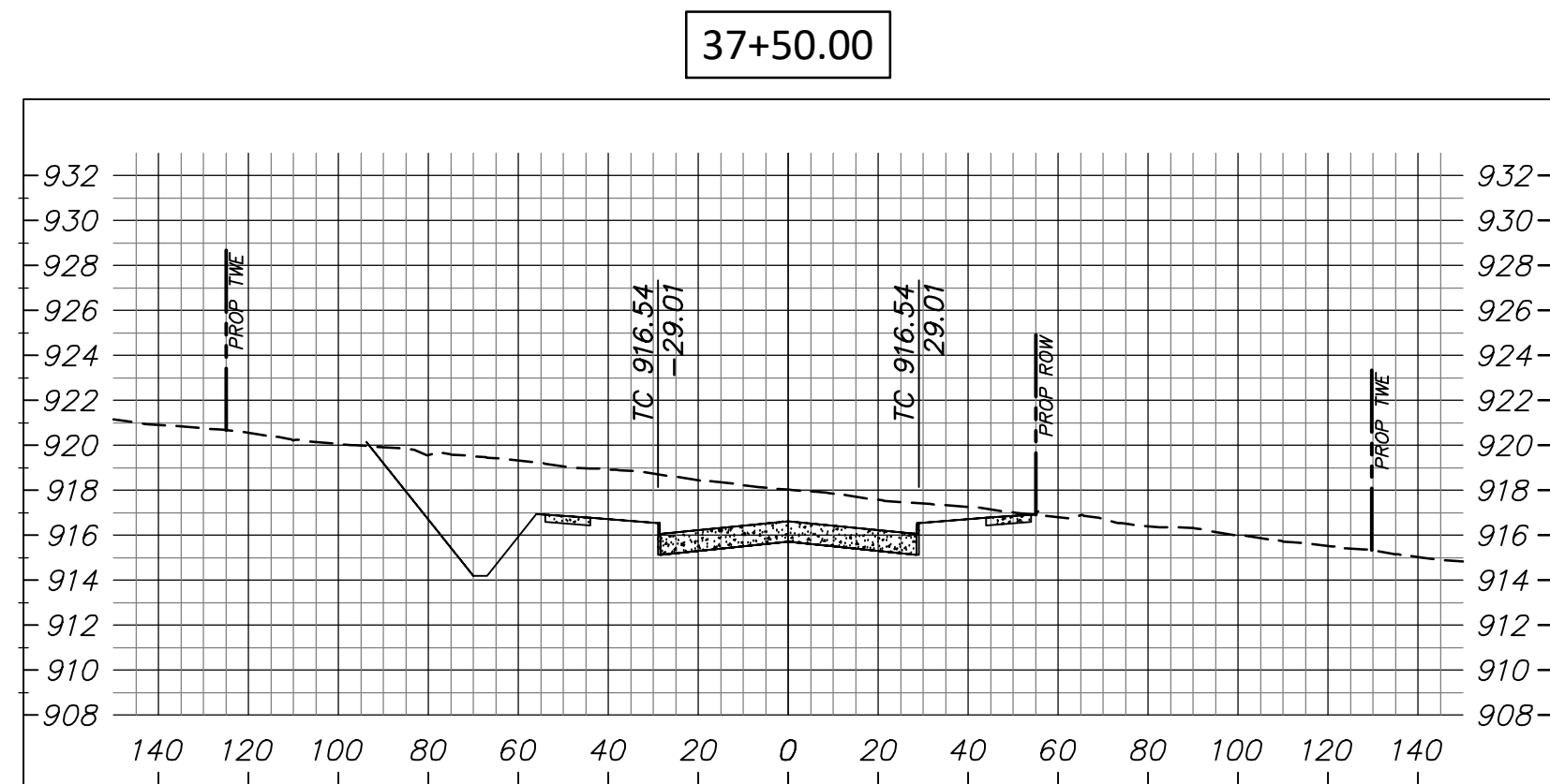
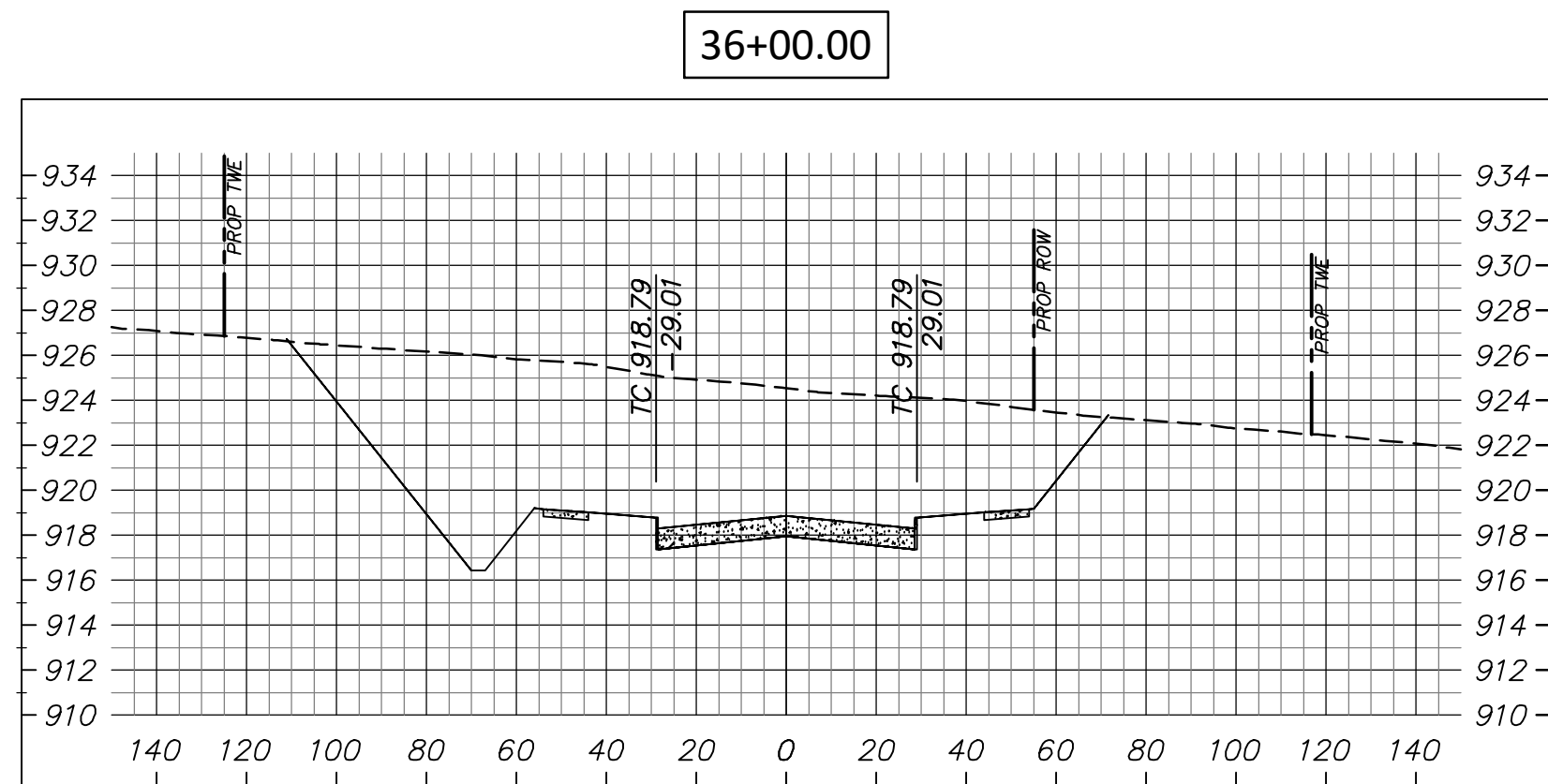
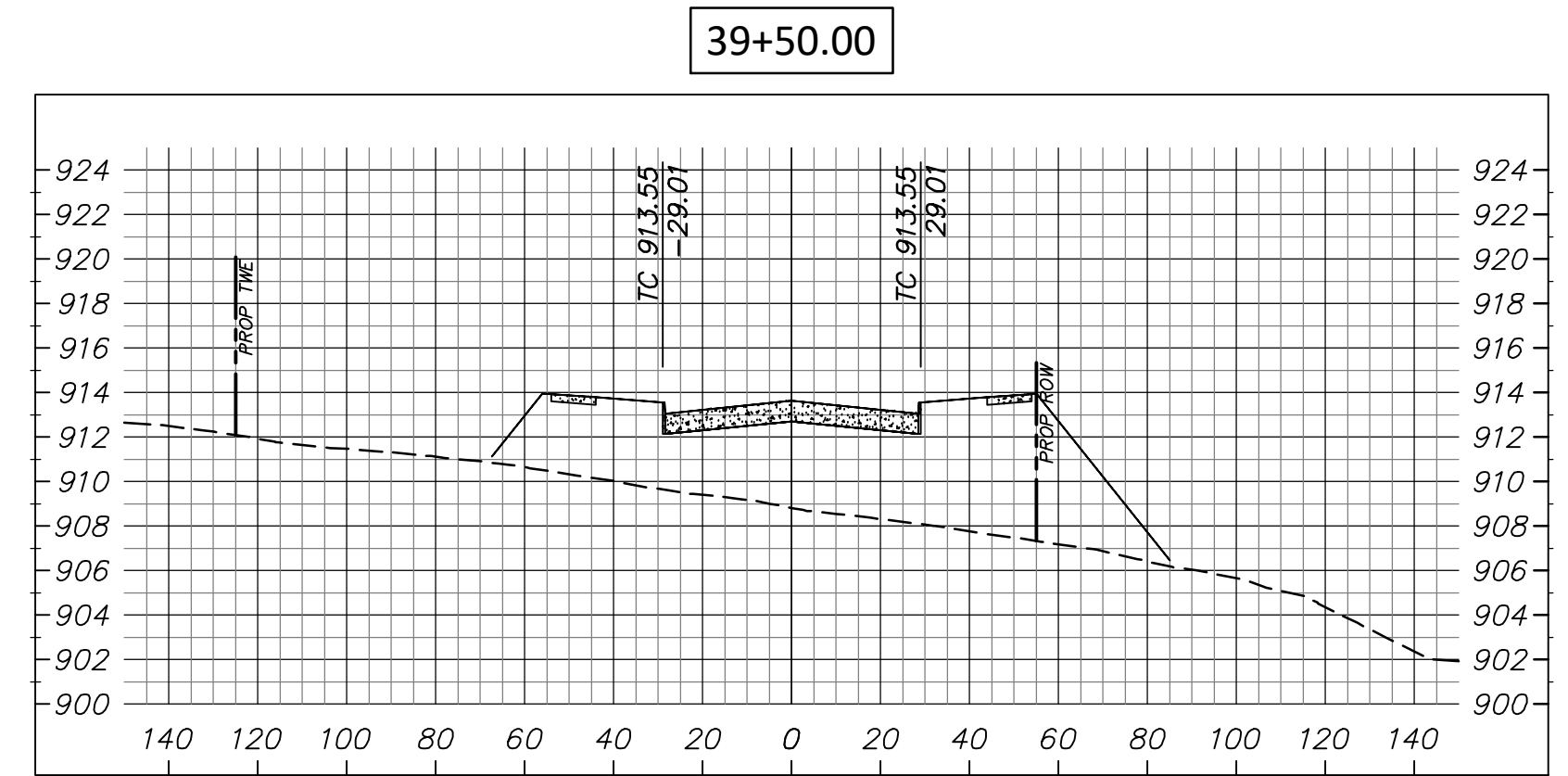
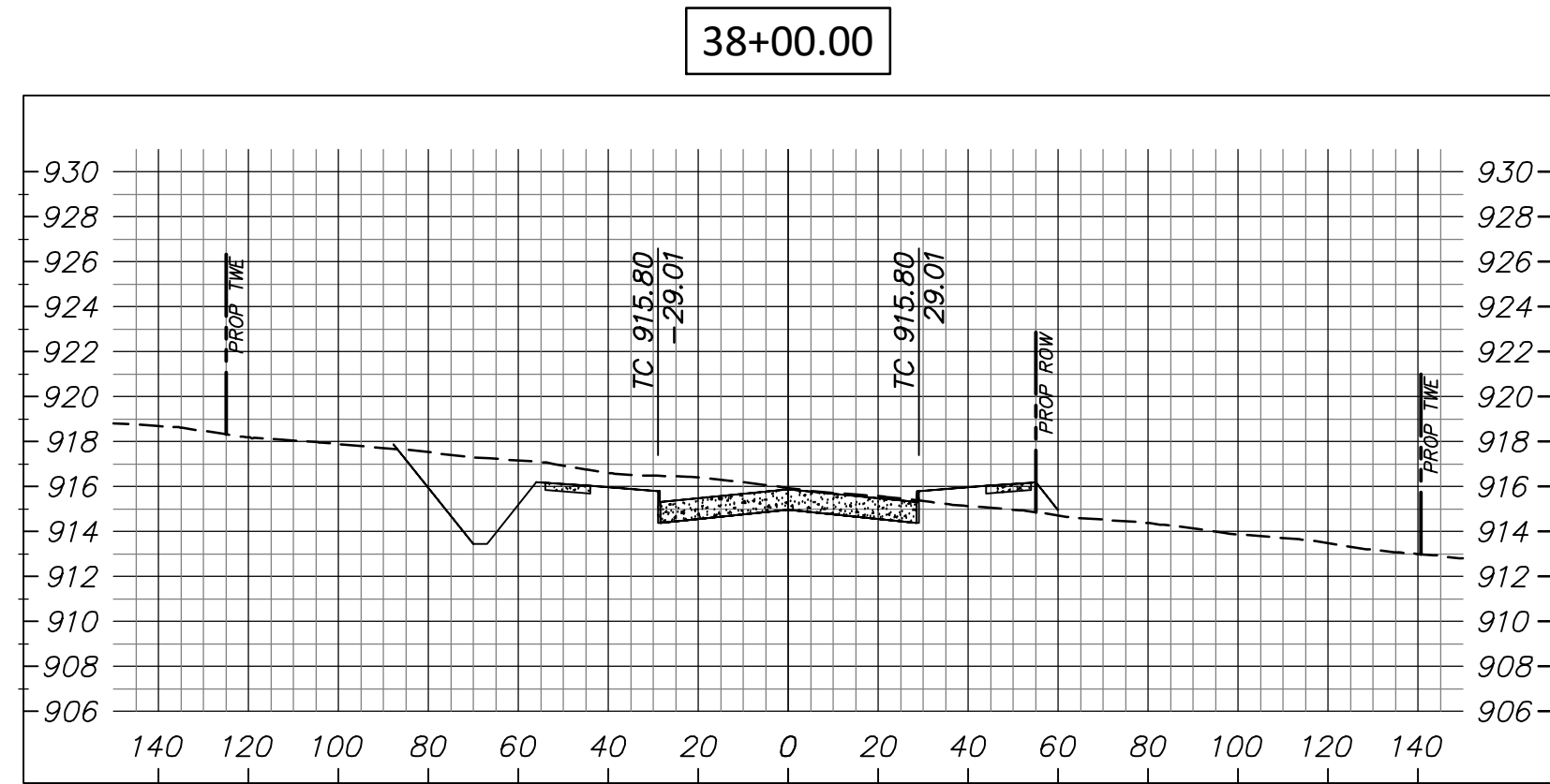
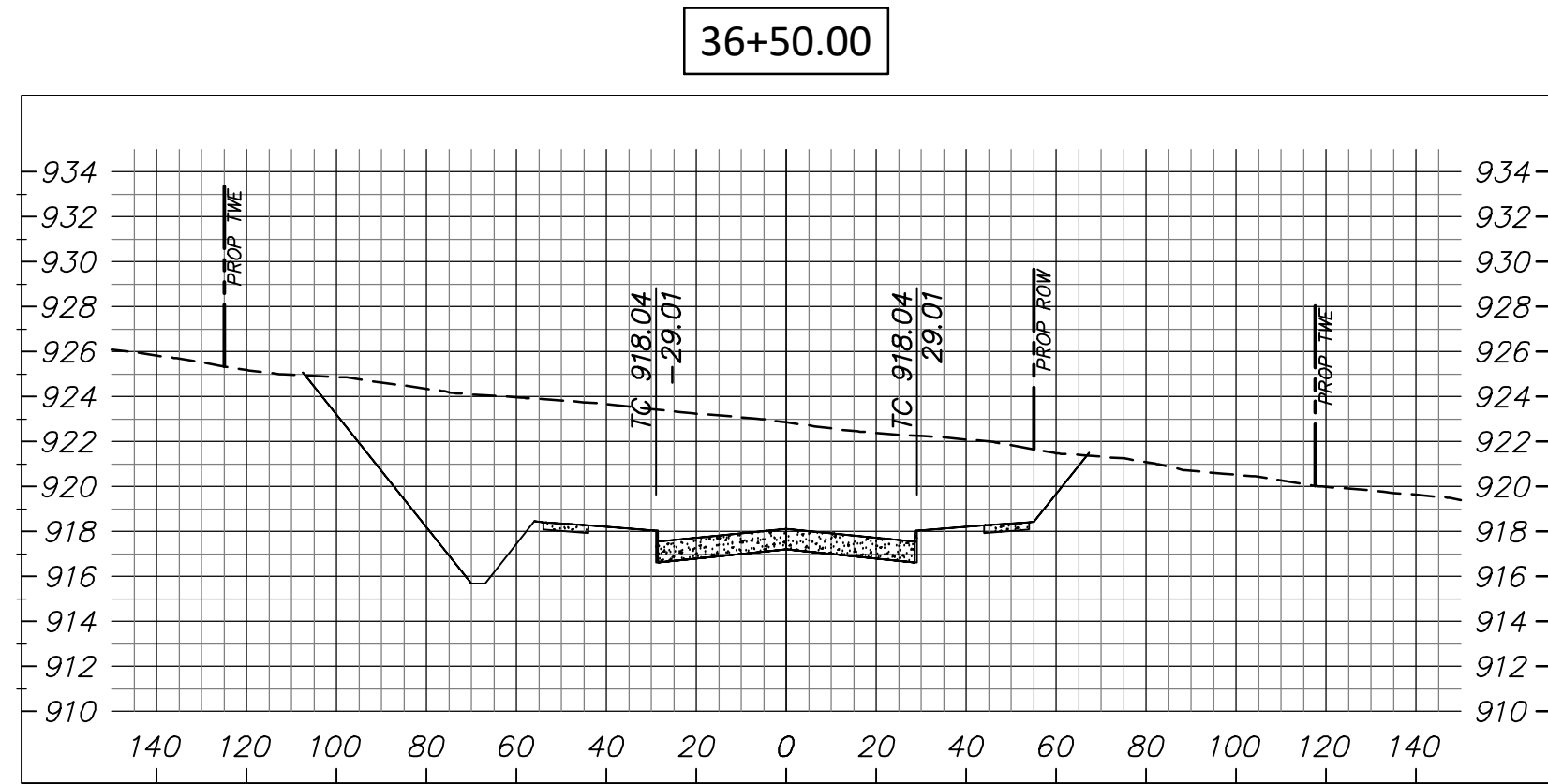
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 QUINTEN D. PLUMER
 P.E.# 138475 DATE: October 3, 2022

TARRANT COUNTY, TEXAS
BENTLEY BRIDGE DRIVE
CROSS SECTIONS - BENTLEY BRIDGE DRIVE STA 32+50 TO STA 36+50

DA PROJECT 2001169.033	SHEET 21
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 Plotted On: October 03, 2022
 Plotted At: 7:42:39 PM



NO.	REVISION	BY	DATE

QDP	CHECKED
DESIGNED	
JDW	
DRAWN	
LAM	



SCALE	DATE
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VERT 1" = 8'	

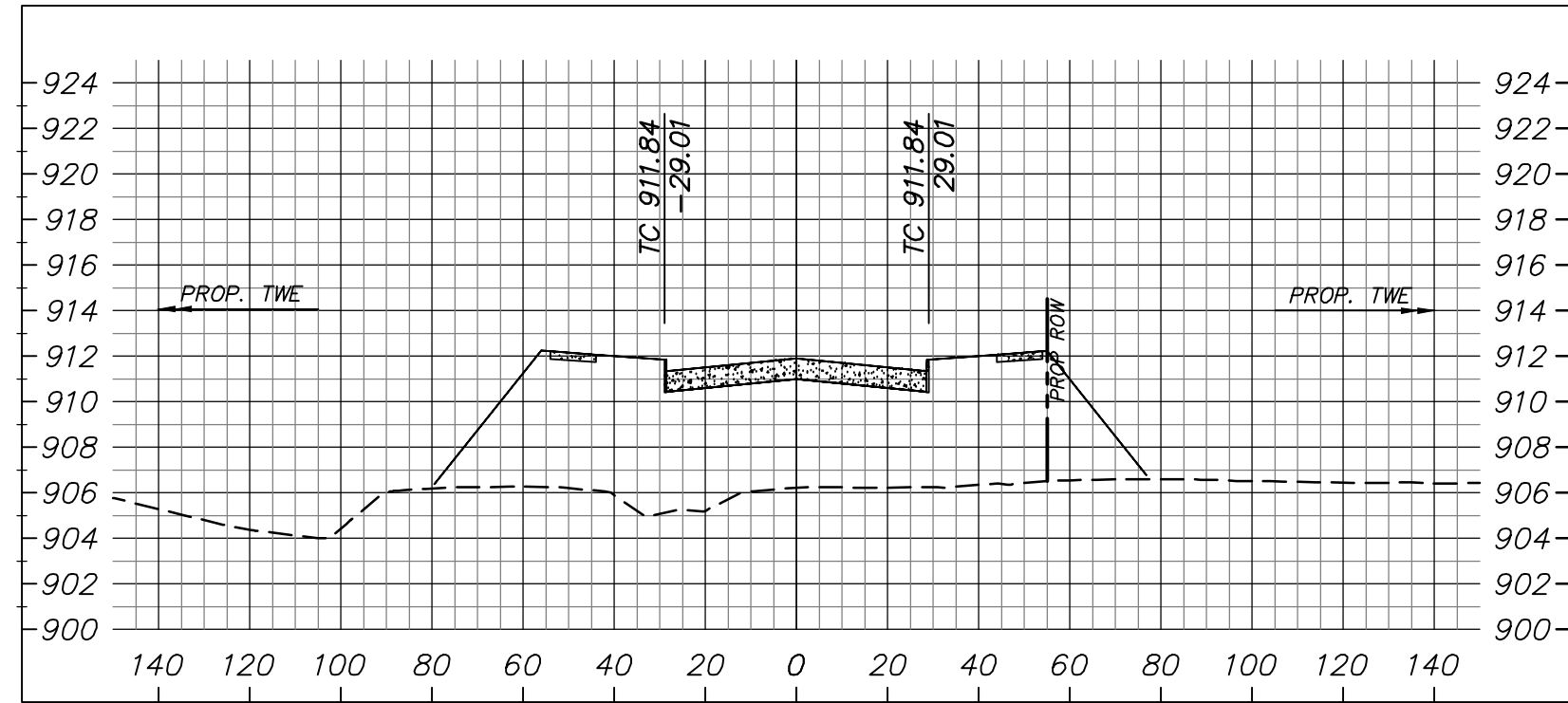

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 Tel: 817.335.1121
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 BY, OR UNDER THE SUPERVISION OF:
 QUINTEN D. PLUMER
 P.E.# 138475 DATE: October 3, 2022

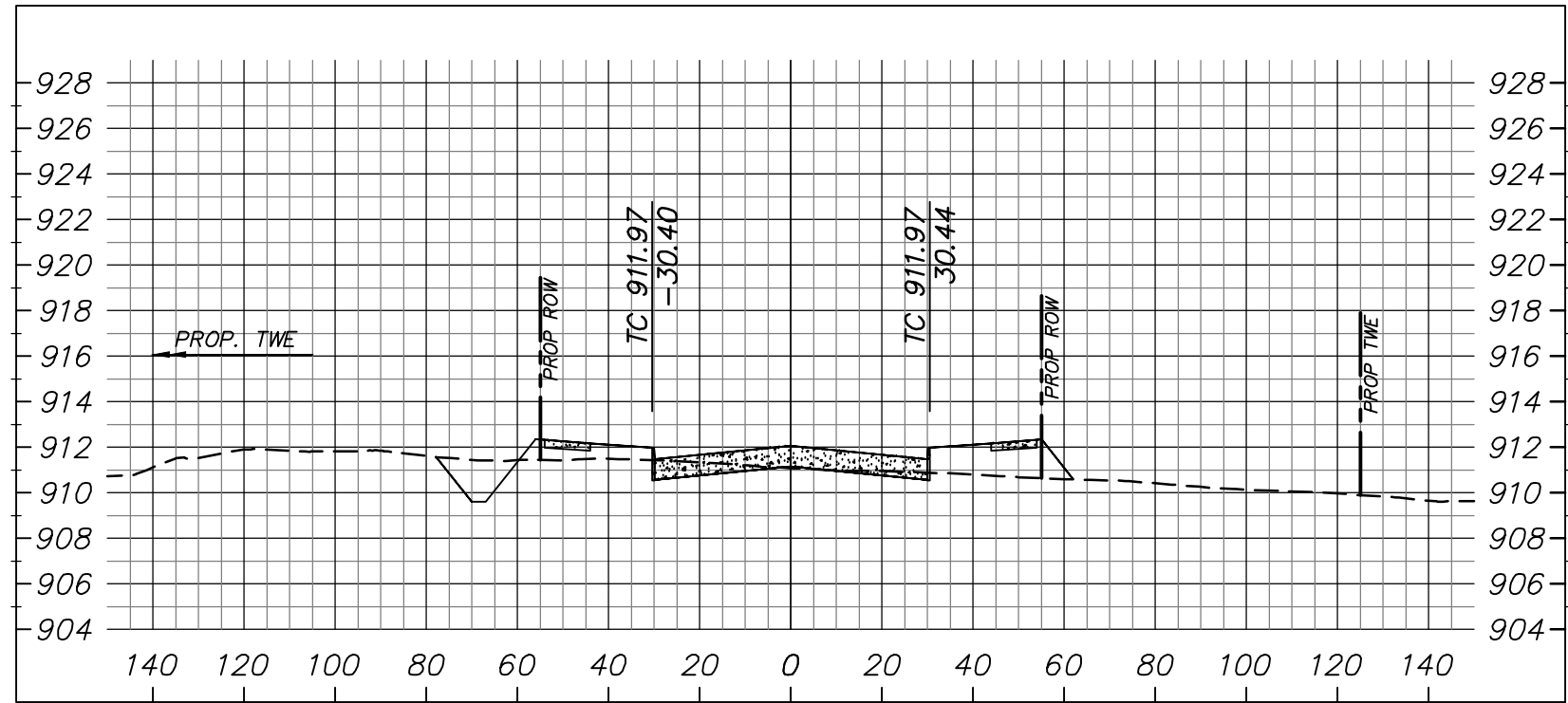
TARRANT COUNTY, TEXAS
BENTLEY BRIDGE DRIVE
CROSS SECTIONS - BENTLEY BRIDGE DRIVE STA 37+00 TO STA 41+00

DA PROJECT 2001169.033
SHEET 22

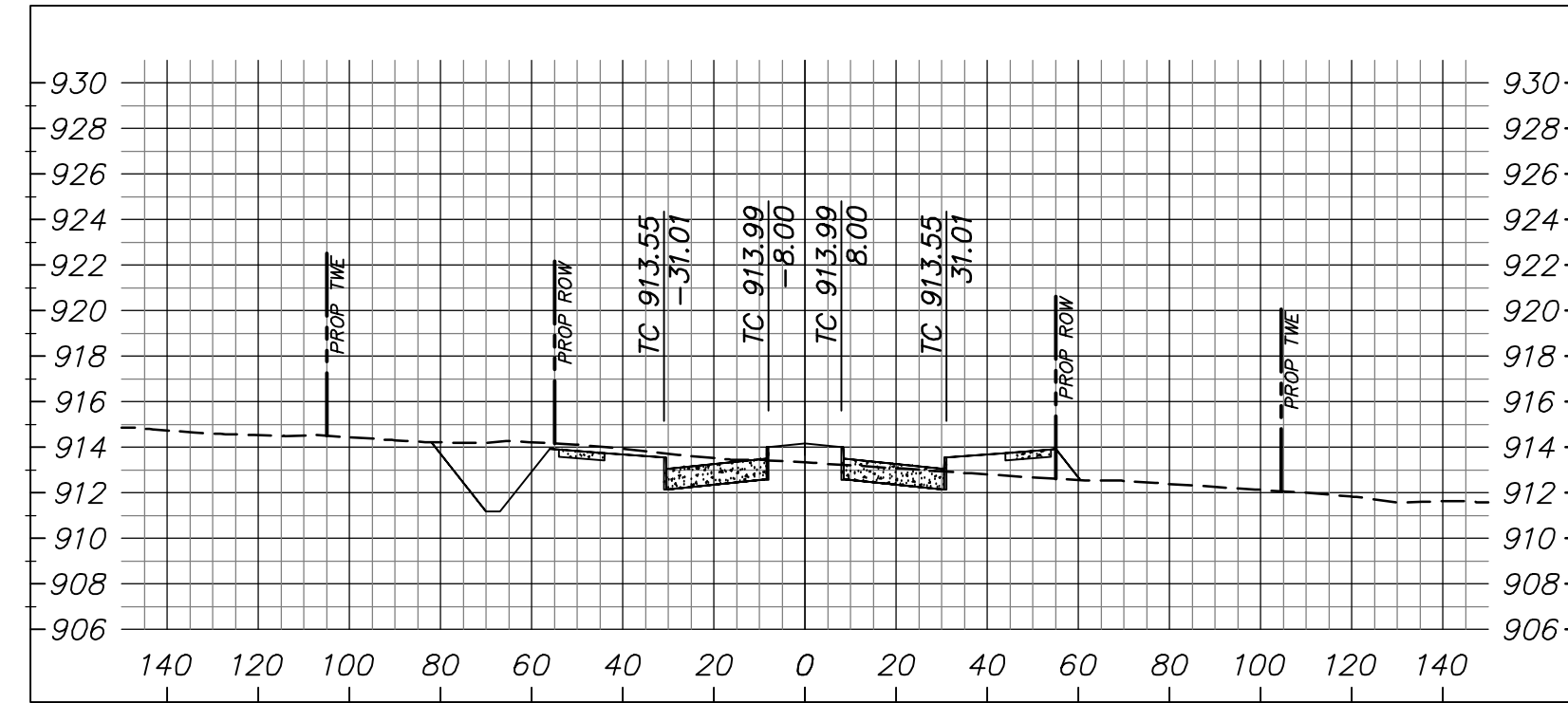
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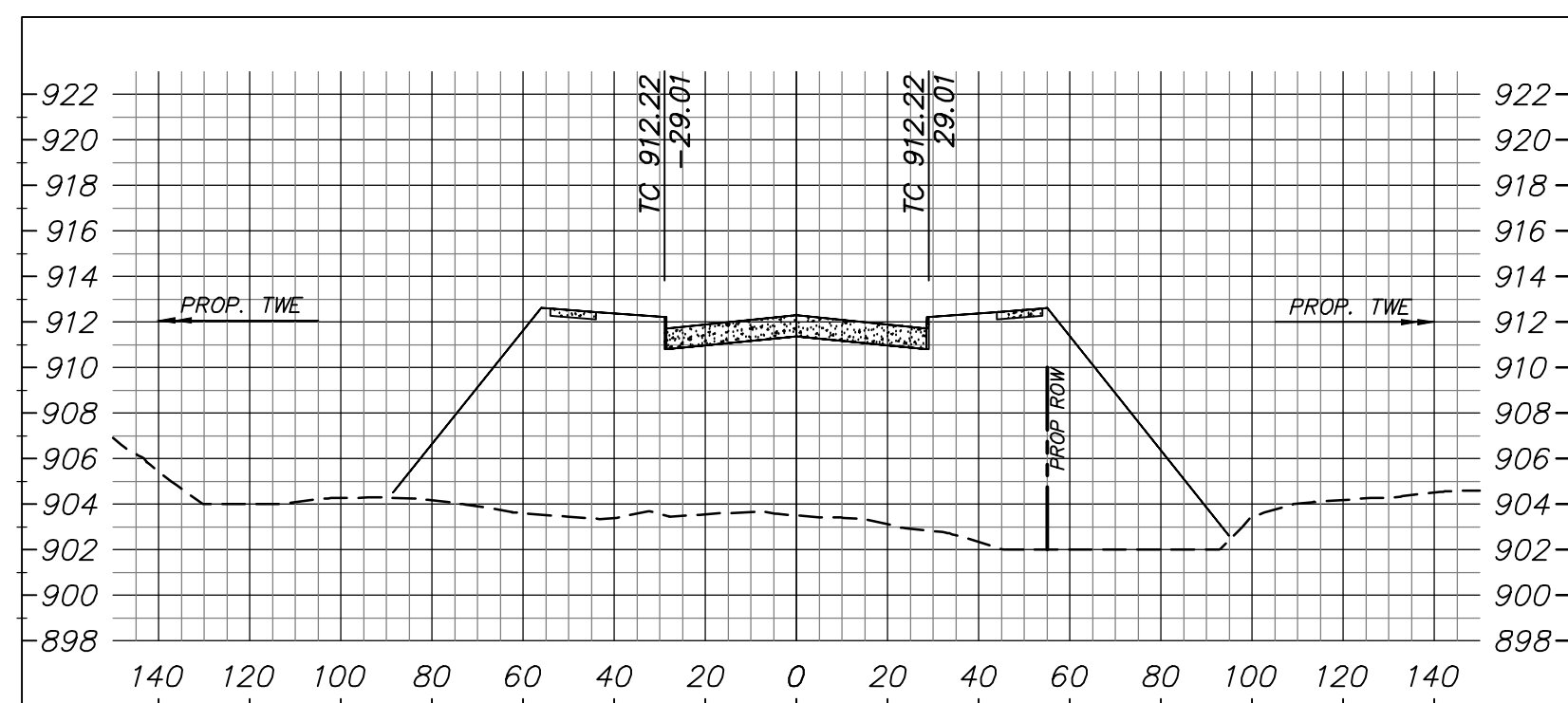
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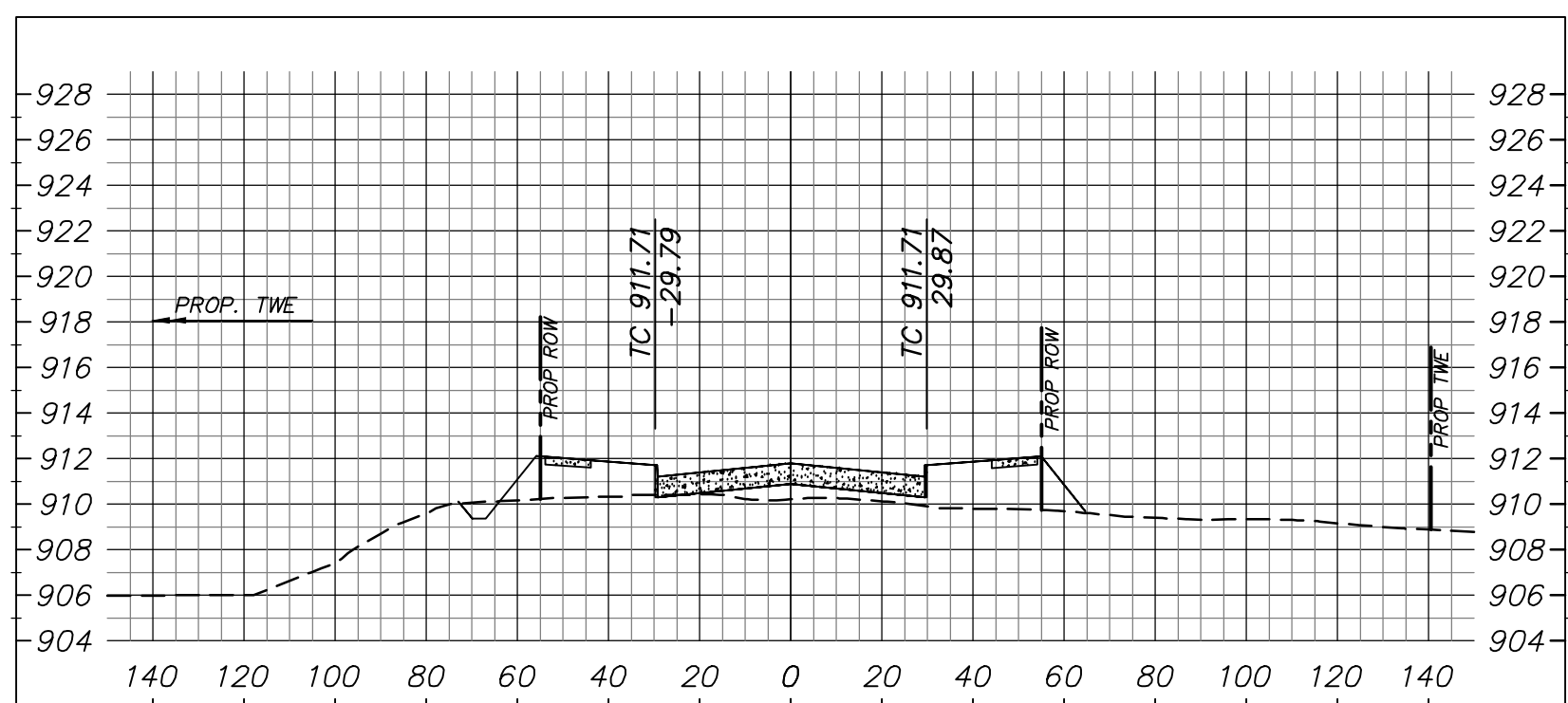
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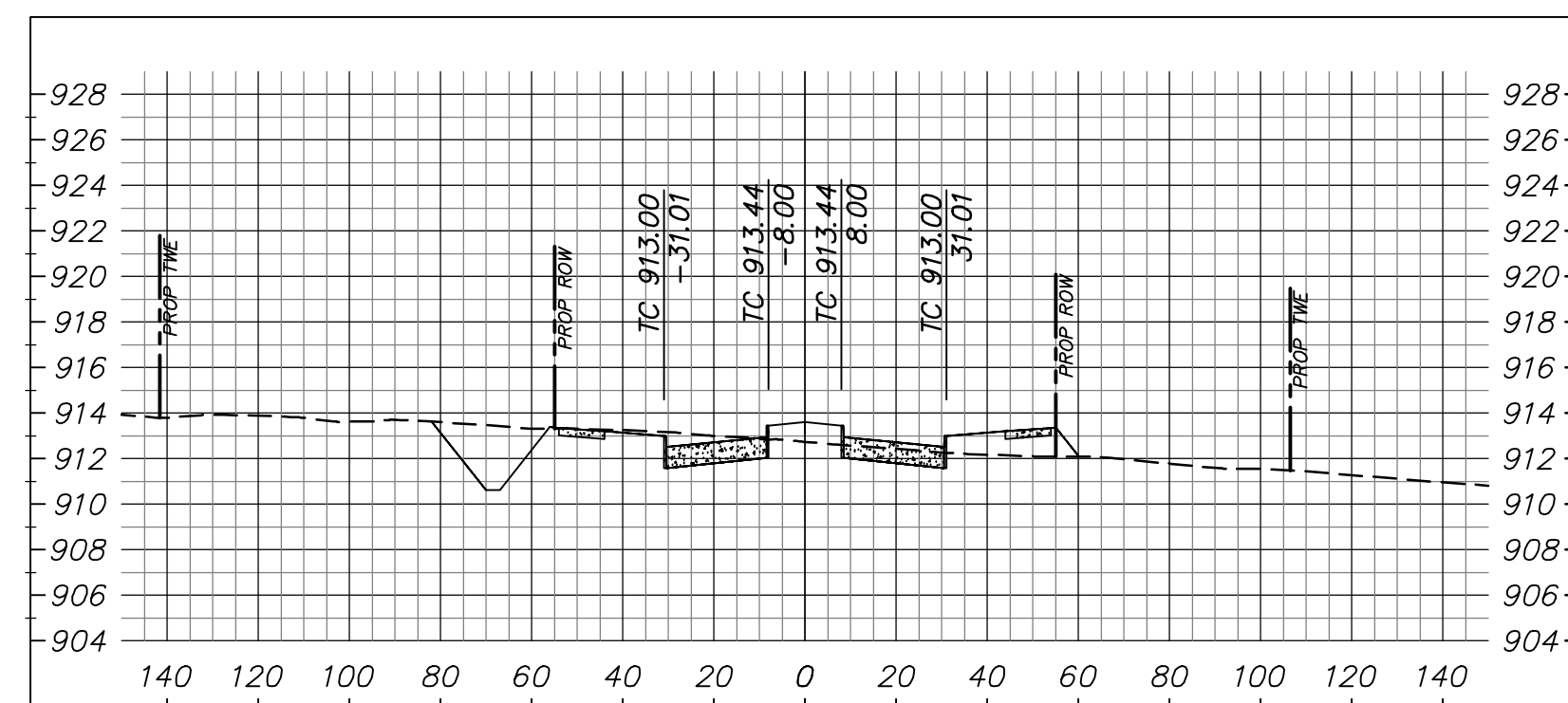
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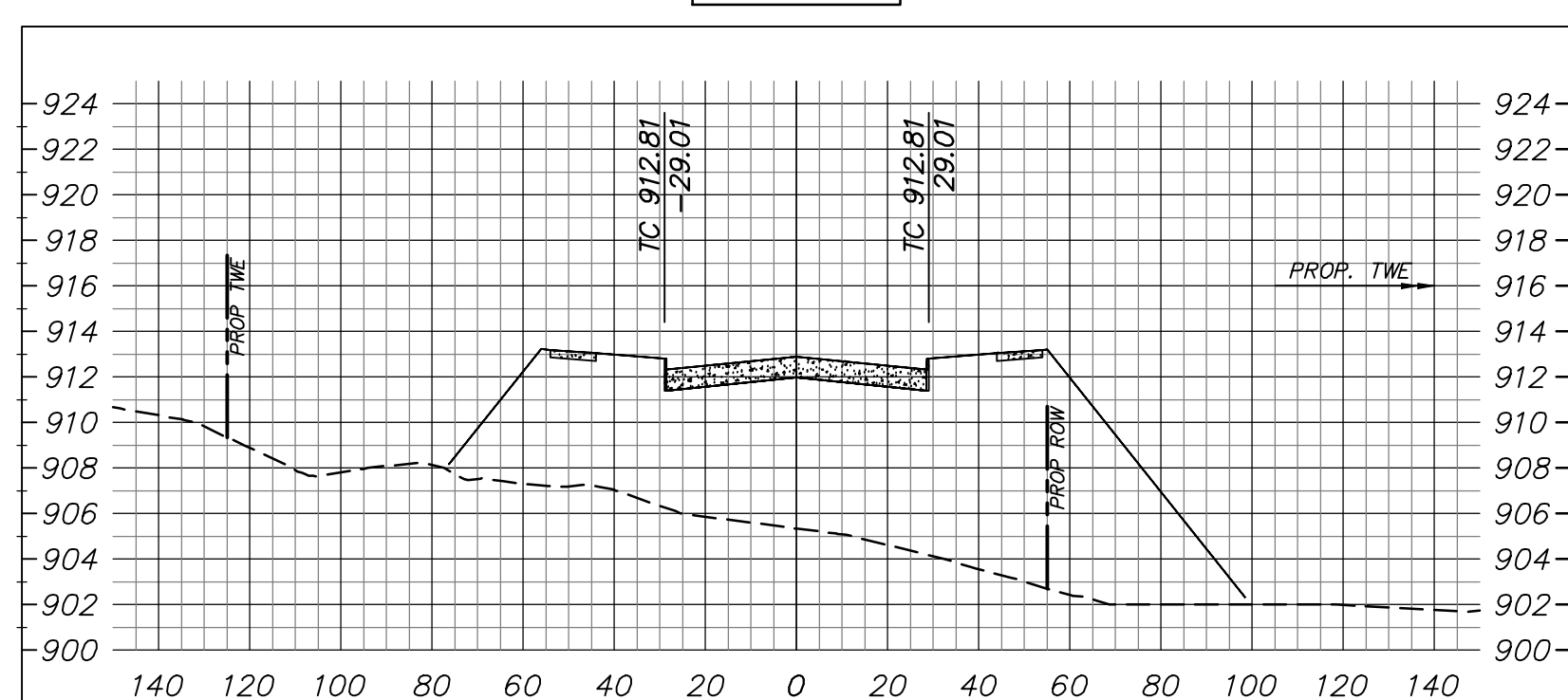
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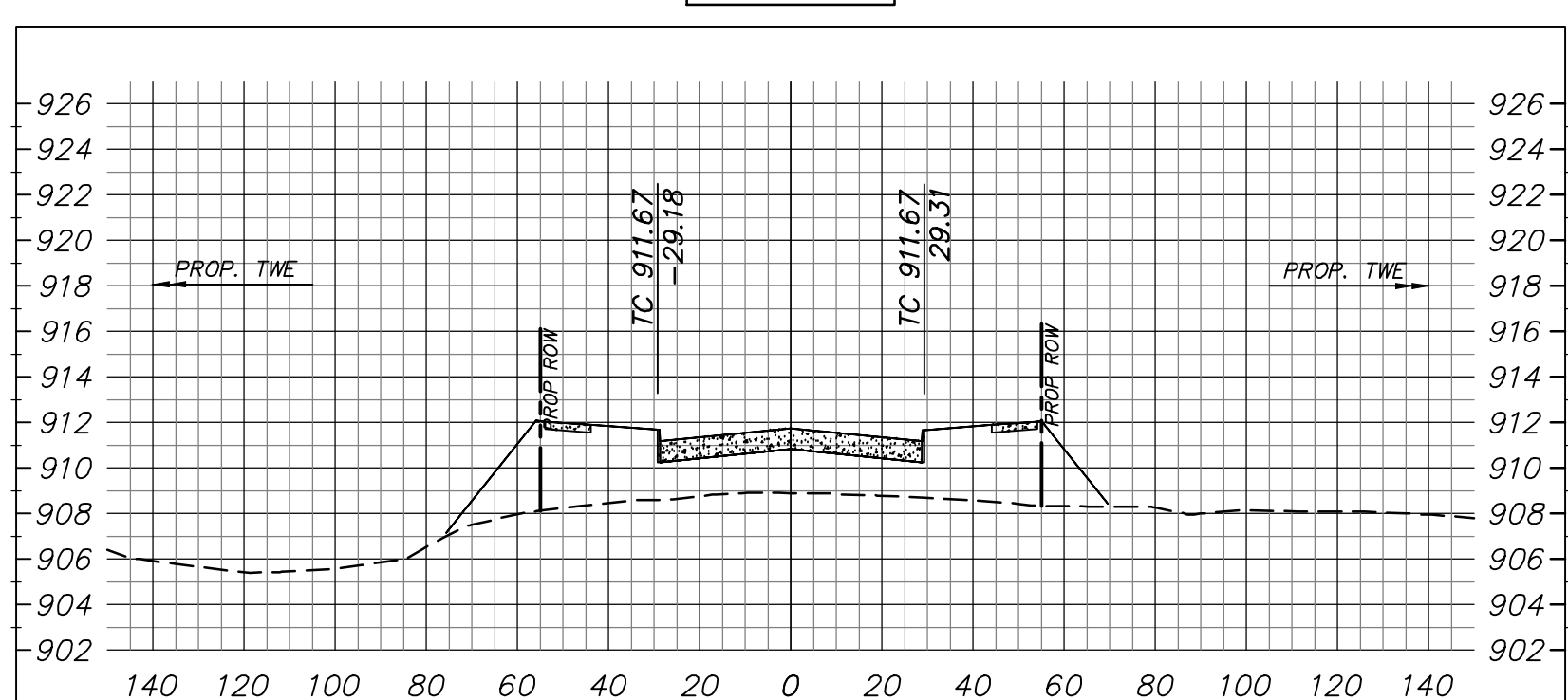
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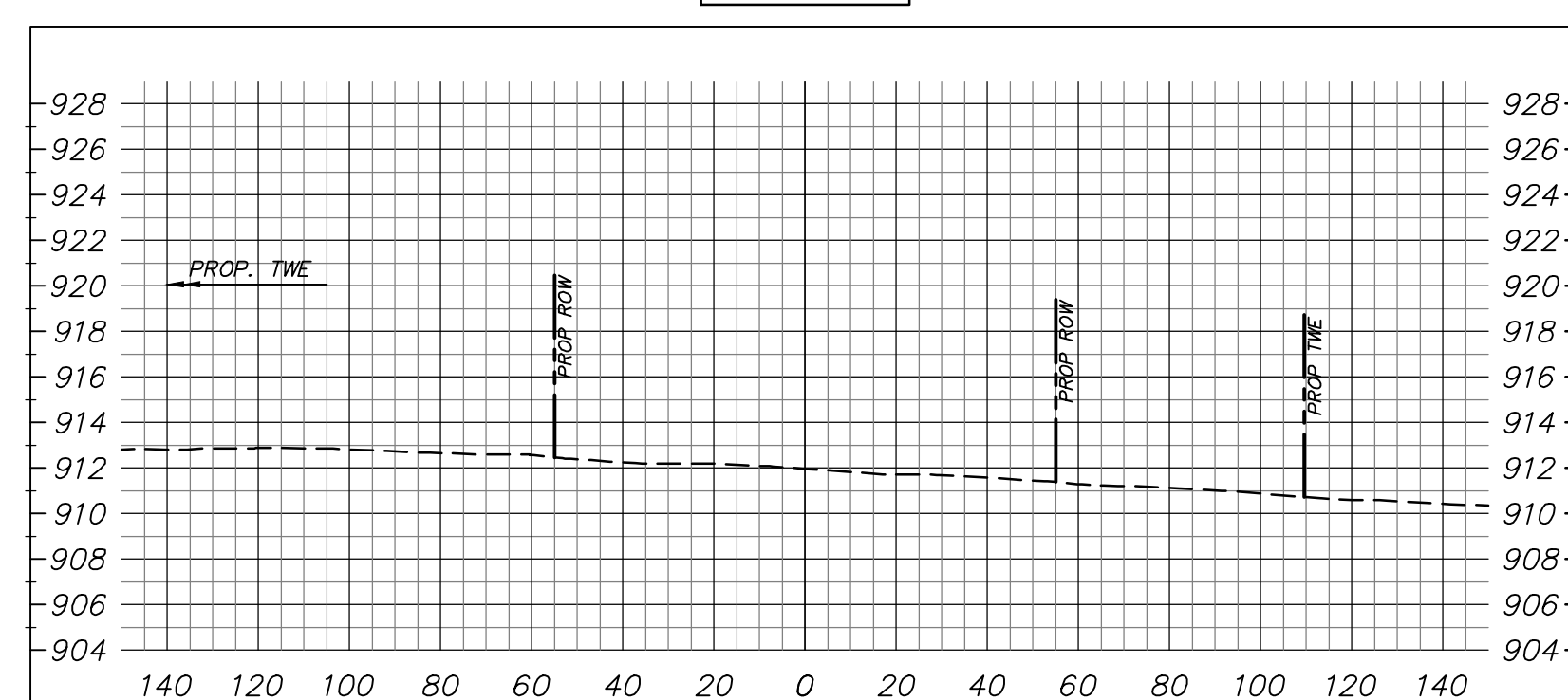
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43+00.00



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 PLOTTED AT: 7:42:28 PM

NO.	REVISION	BY	DATE

QDP	DESIGNED	JDW	DRAWN	LAM	CHECKED
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SCALE	DATE
HORIZ 1" = 40'	OCTOBER 2022
VERT 1" = 8'	

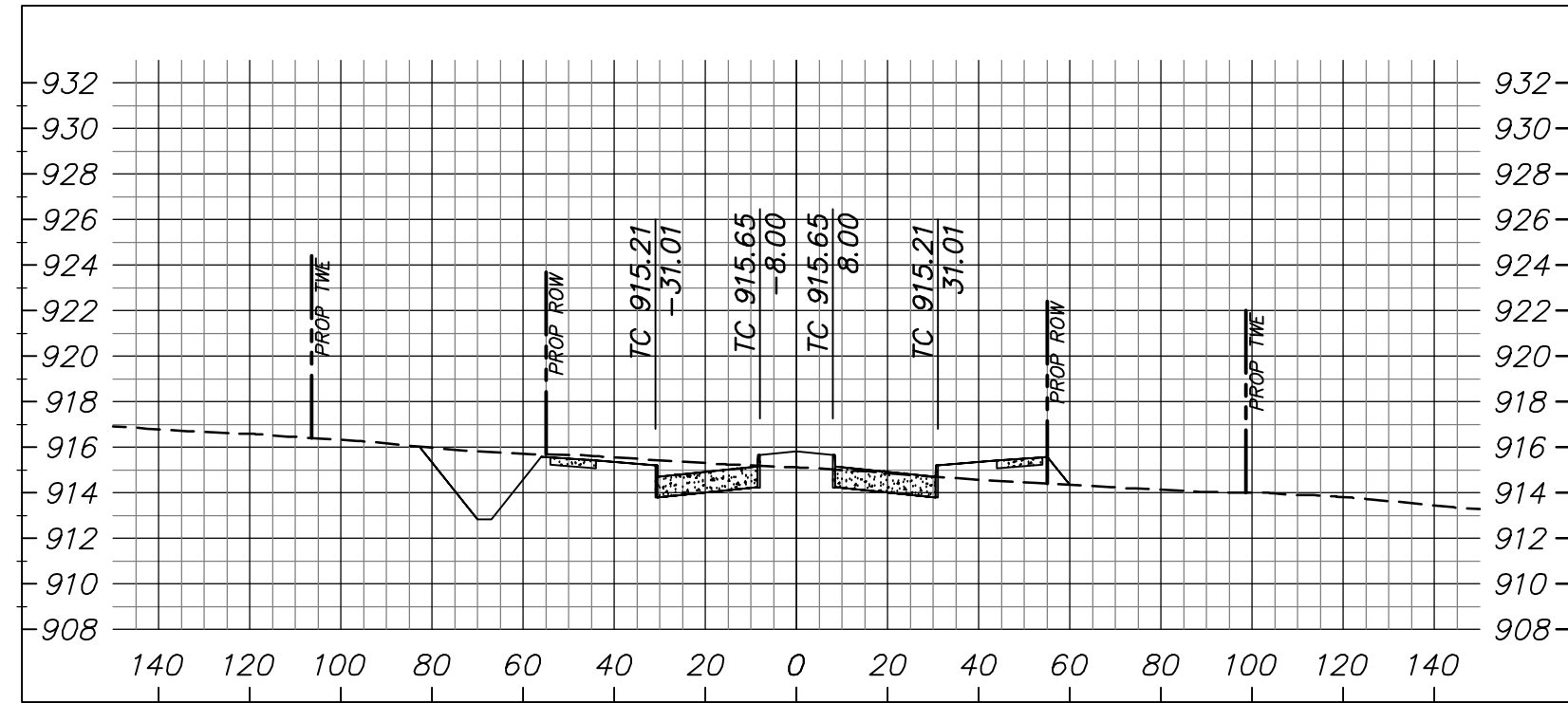
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 Tel: 817.335.1121
 (TX REG. F-1114)

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 QUINTEN D. PLUMER
 P.E.# 138475 DATE: October 3, 2022

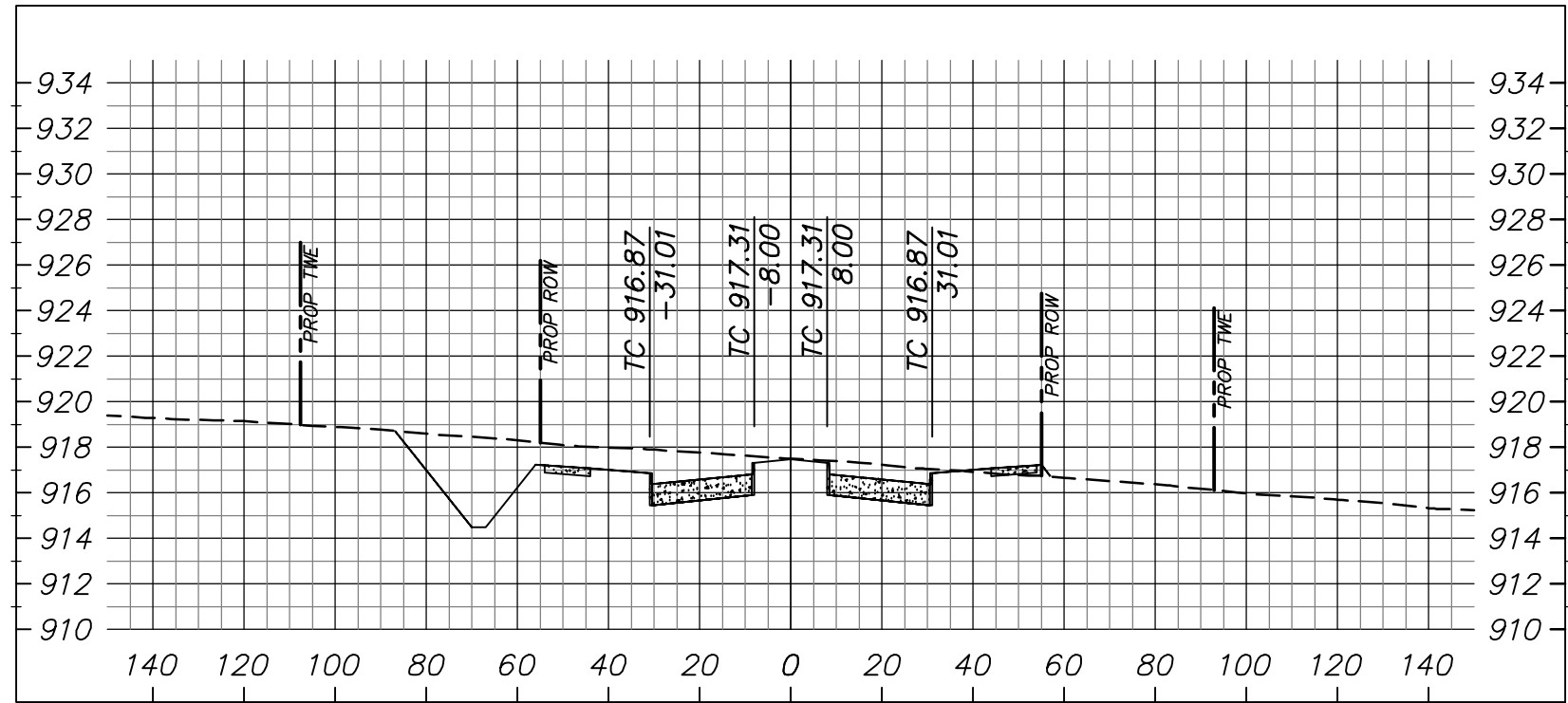
TARRANT COUNTY, TEXAS
BENTLEY BRIDGE DRIVE
CROSS SECTIONS - BENTLEY BRIDGE DRIVE STA 41+50 TO STA 45+50

DA PROJECT 2001169.033
SHEET 23

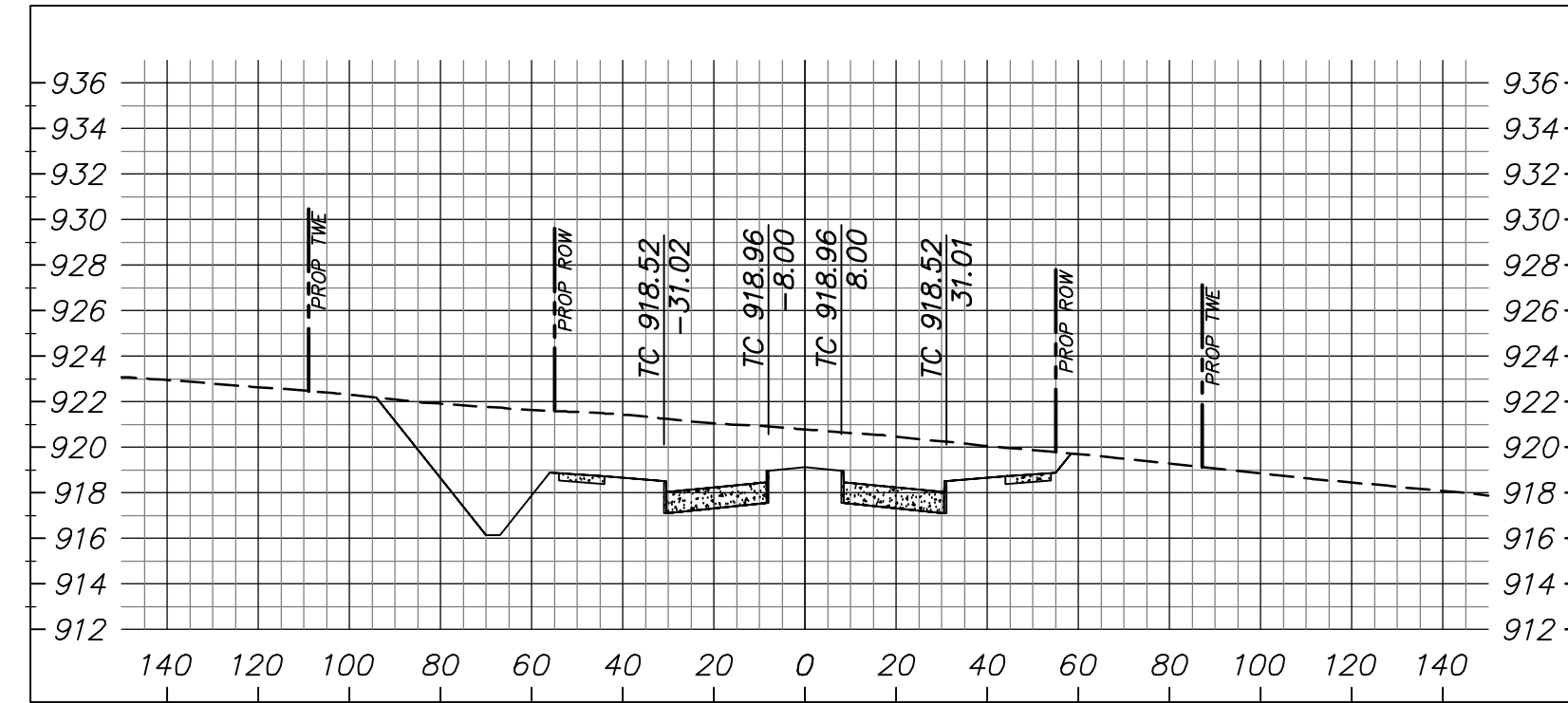
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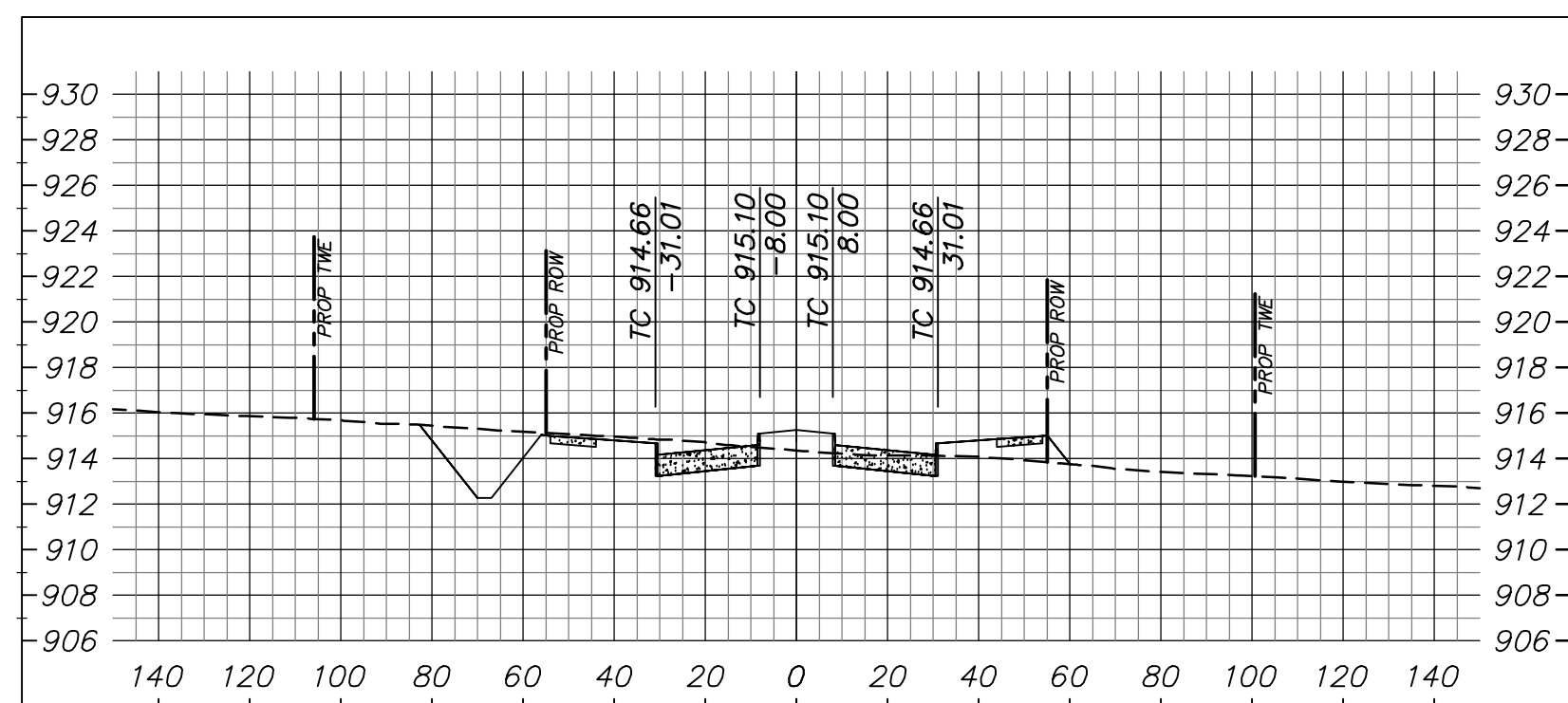
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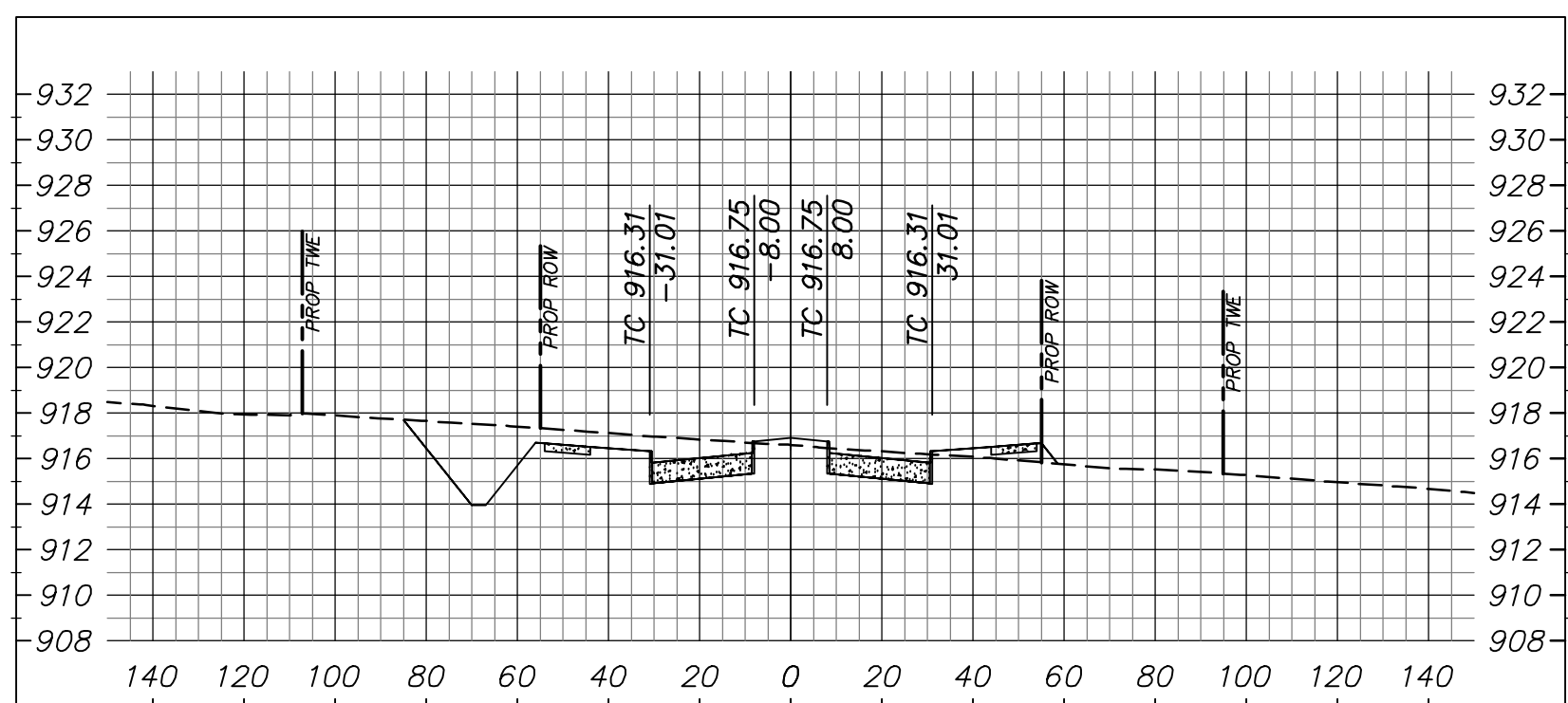
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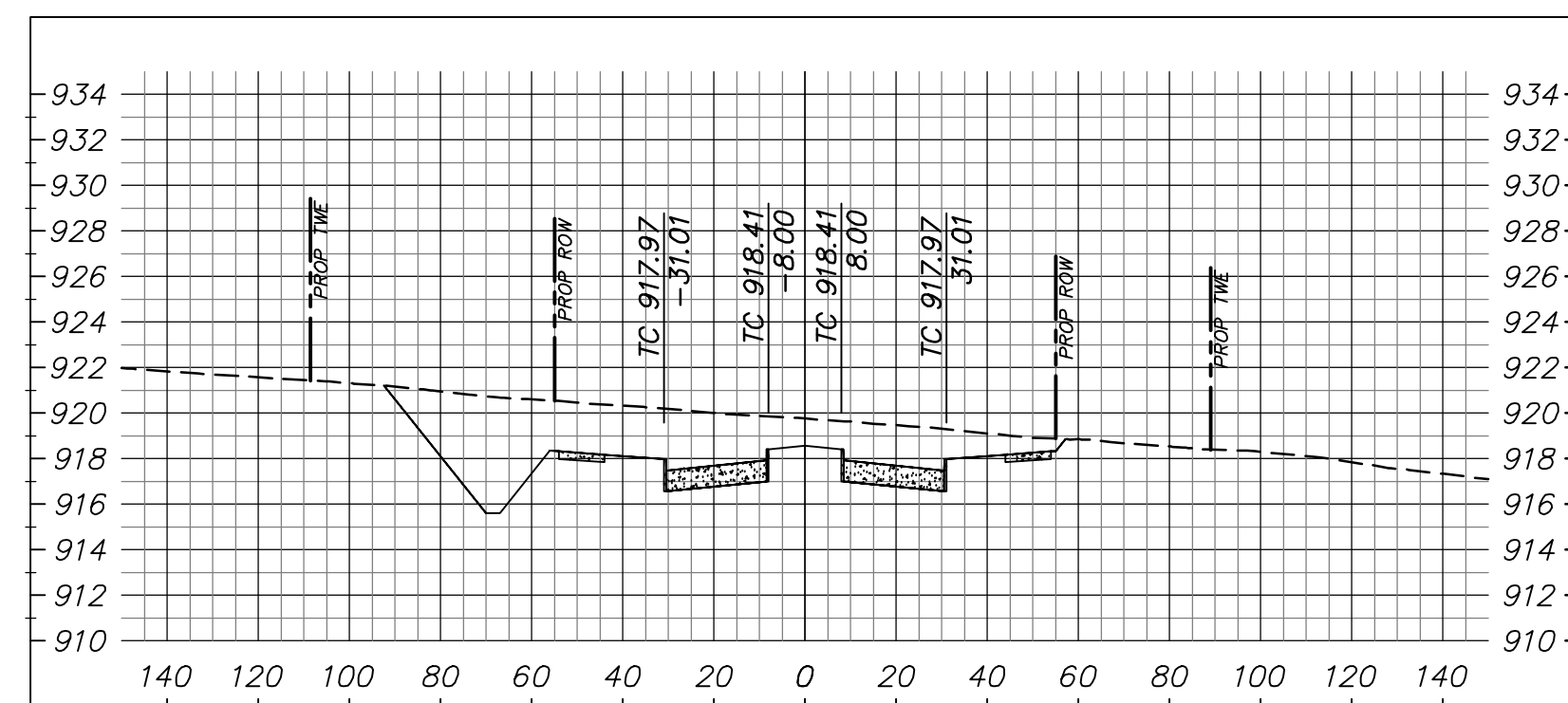
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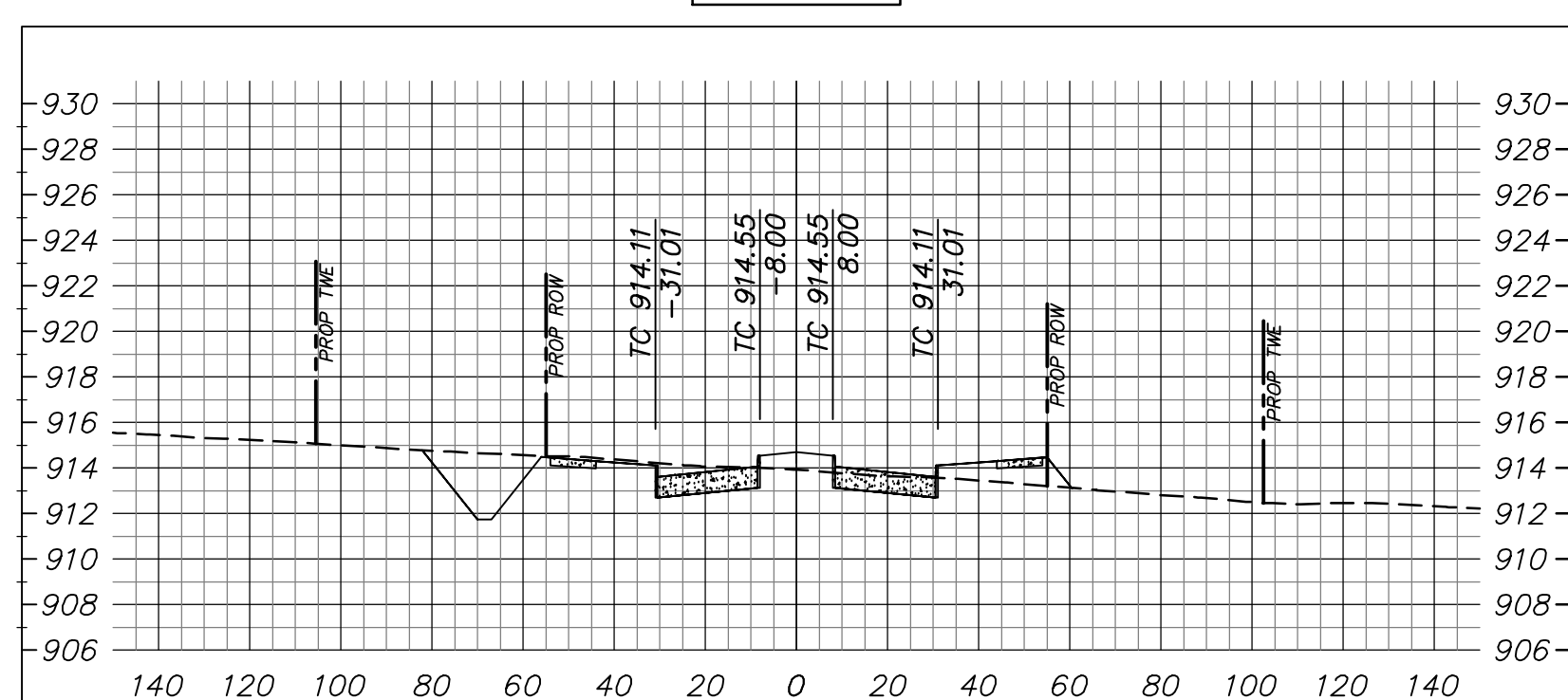
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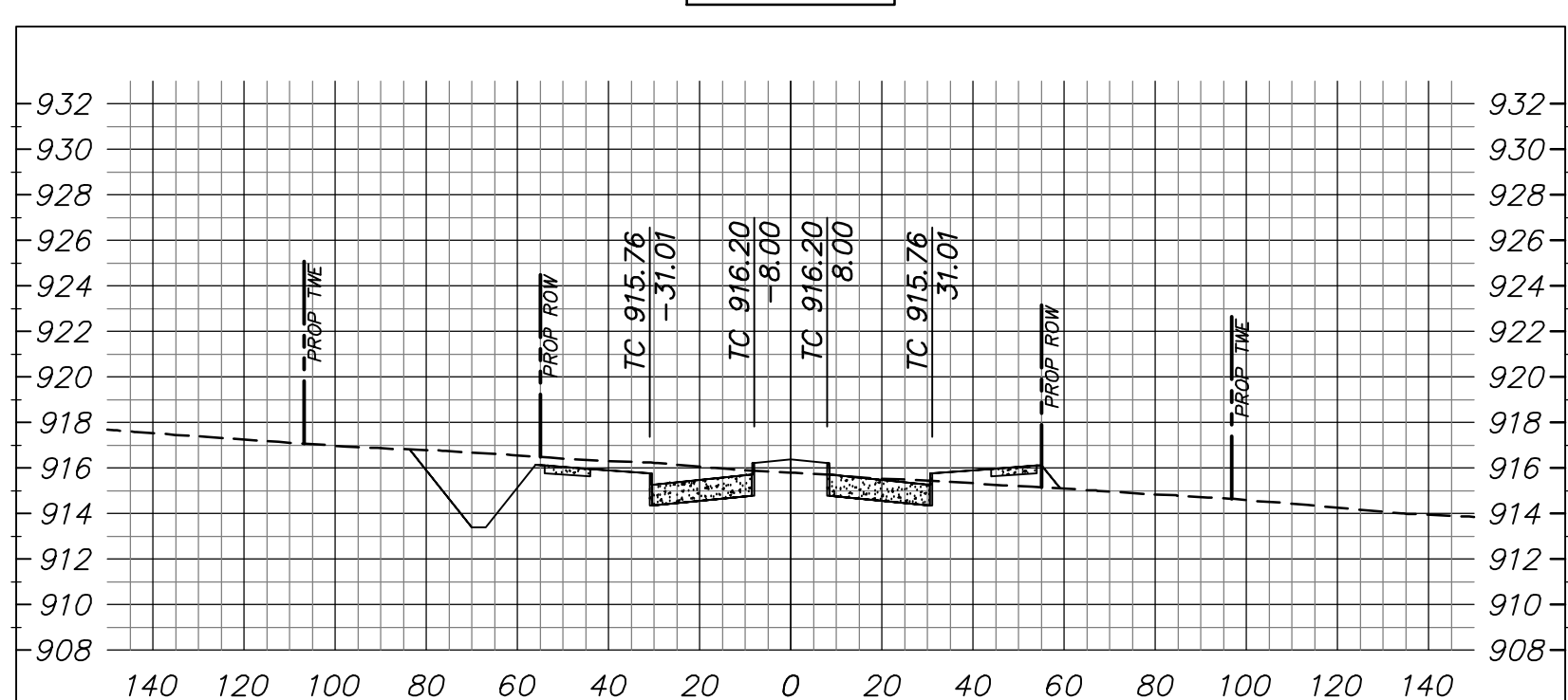
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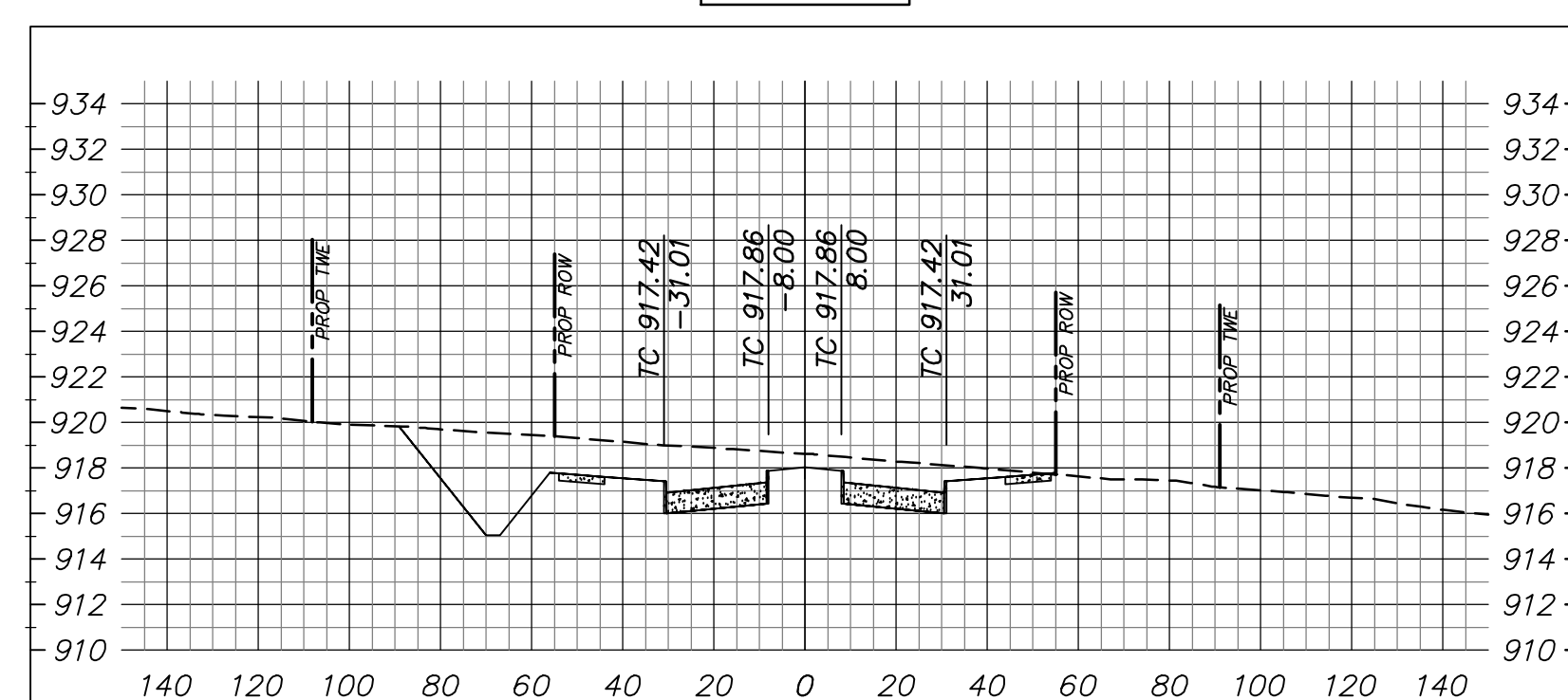
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46+00.00



47+50.00



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 PLOTTED BY: QUINTEEN D. FLUMER
 PLOTTED AT: 7:43:29 PM

NO.	REVISION	BY	DATE

QDP	DESIGNED	JDW	DRAWN	LAM	CHECKED
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SCALE	DATE
HORIZ 1" = 40'	OCTOBER 2022
VERT 1" = 8'	

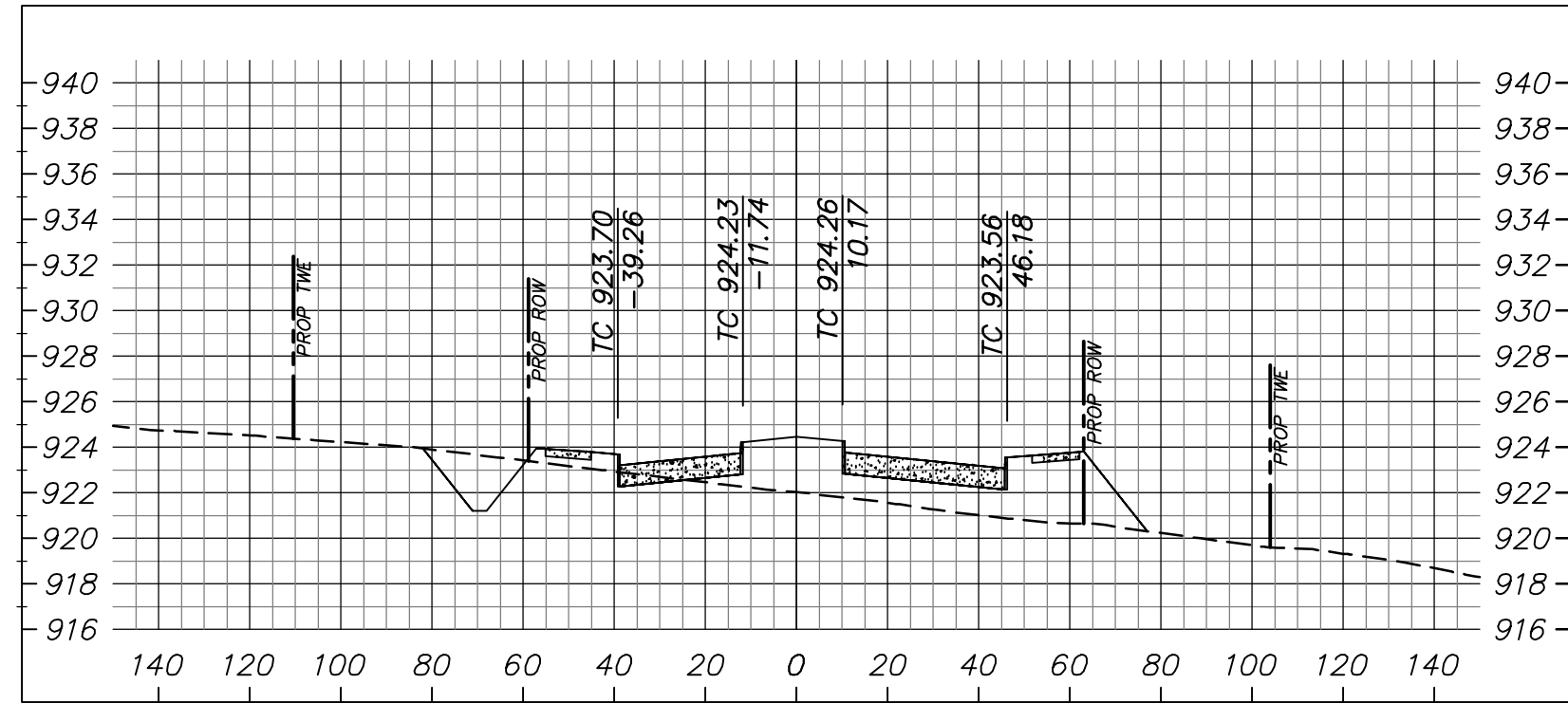
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 550 Bailey Avenue • Suite 400 • Fort Worth, Texas 76107
 Tel: 817.335.1121
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 QUINTEEN D. FLUMER
 P.E.# 138475 DATE: October 3, 2022

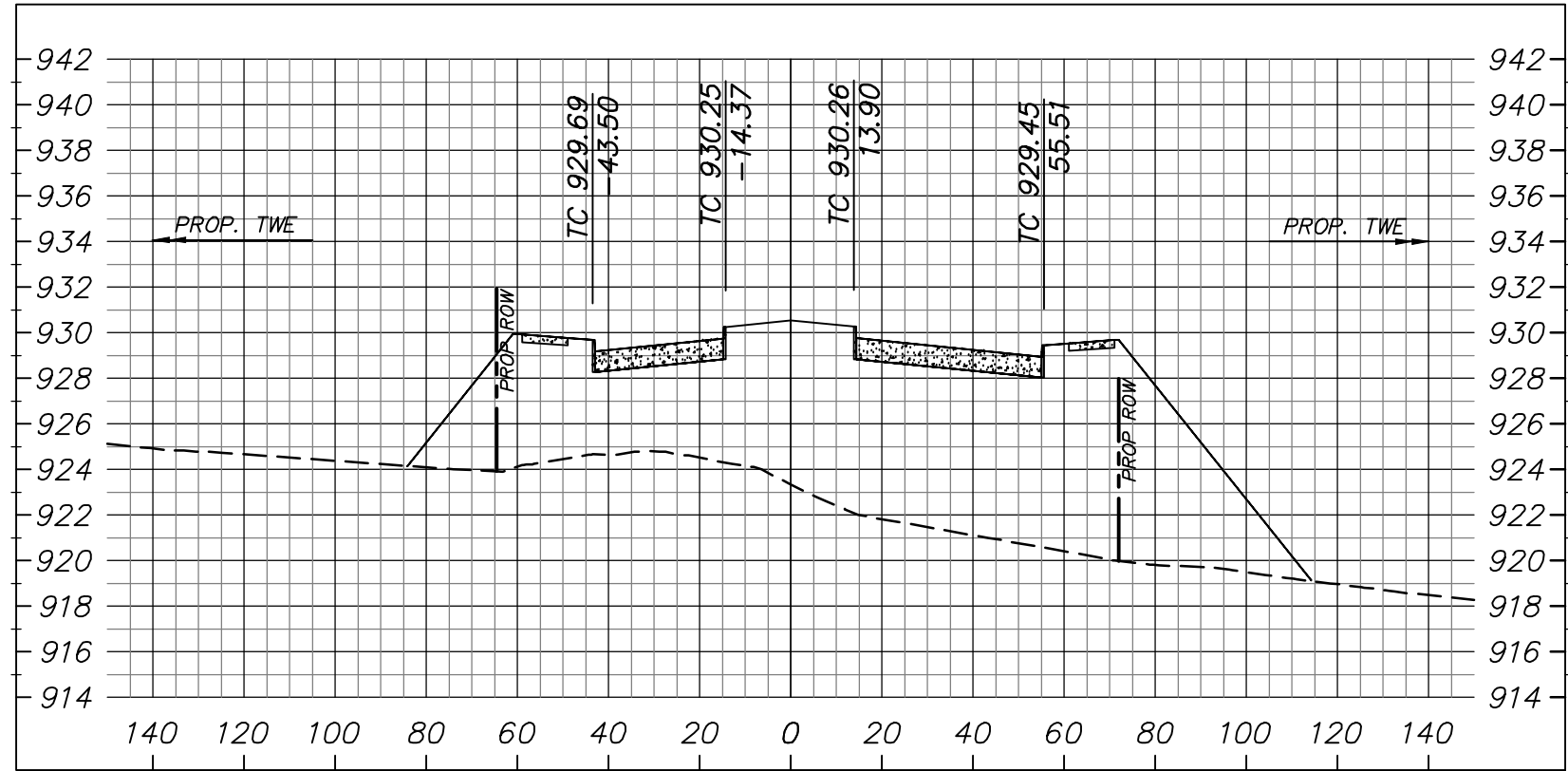
TARRANT COUNTY, TEXAS
BENTLEY BRIDGE DRIVE
CROSS SECTIONS - BENTLEY BRIDGE DRIVE STA 46+00 TO STA 50+00

DA PROJECT 2001169.033	SHEET 24
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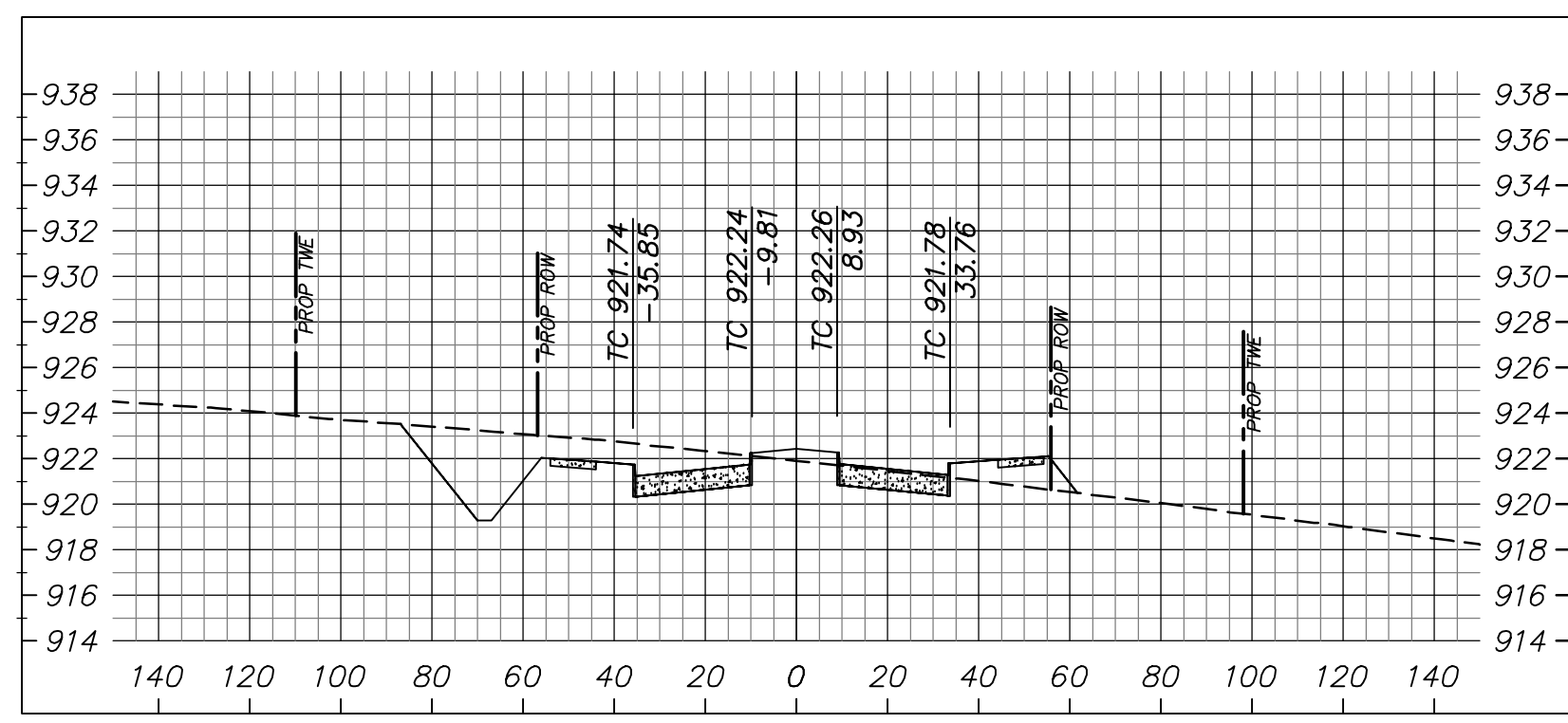
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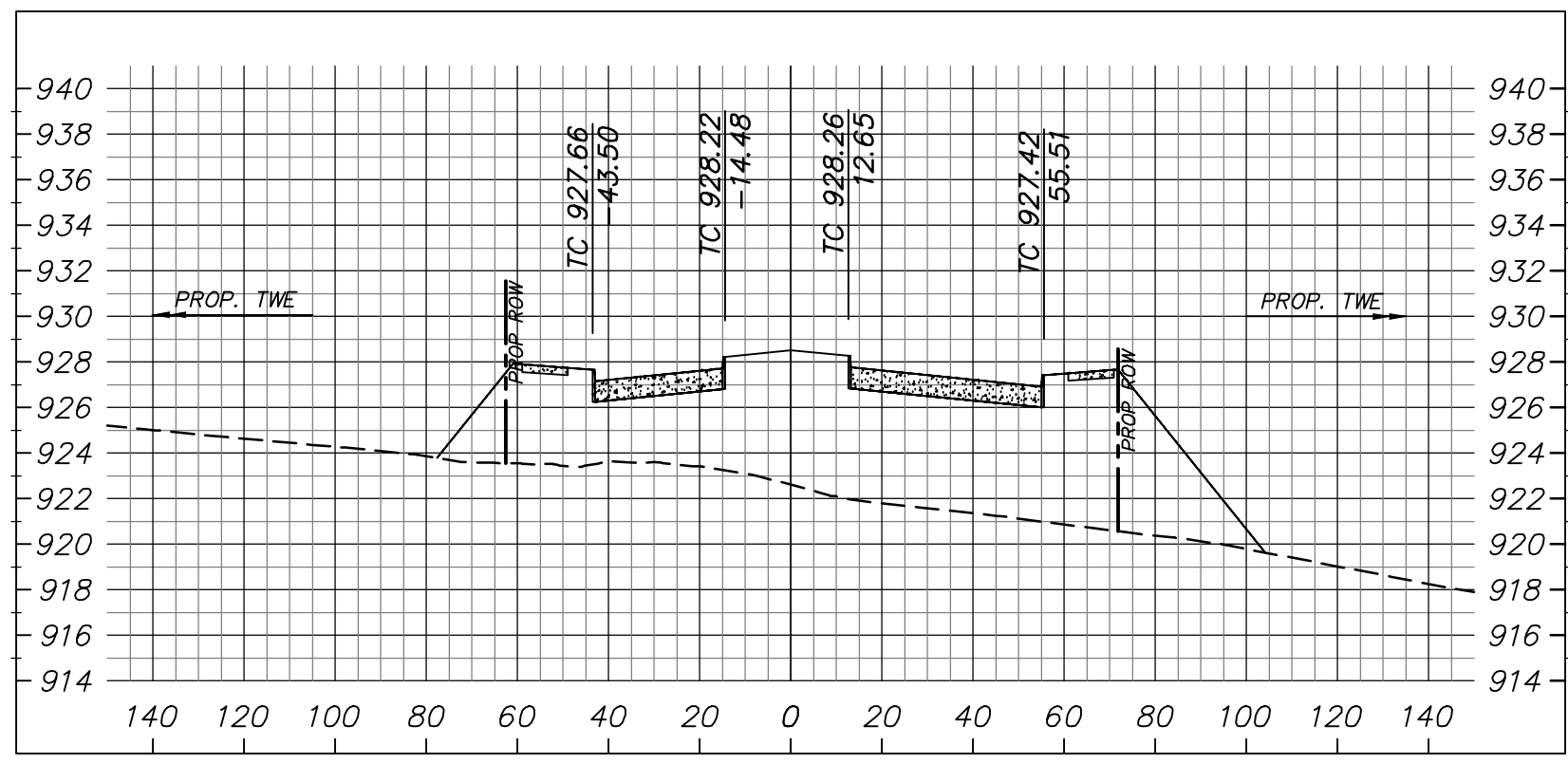
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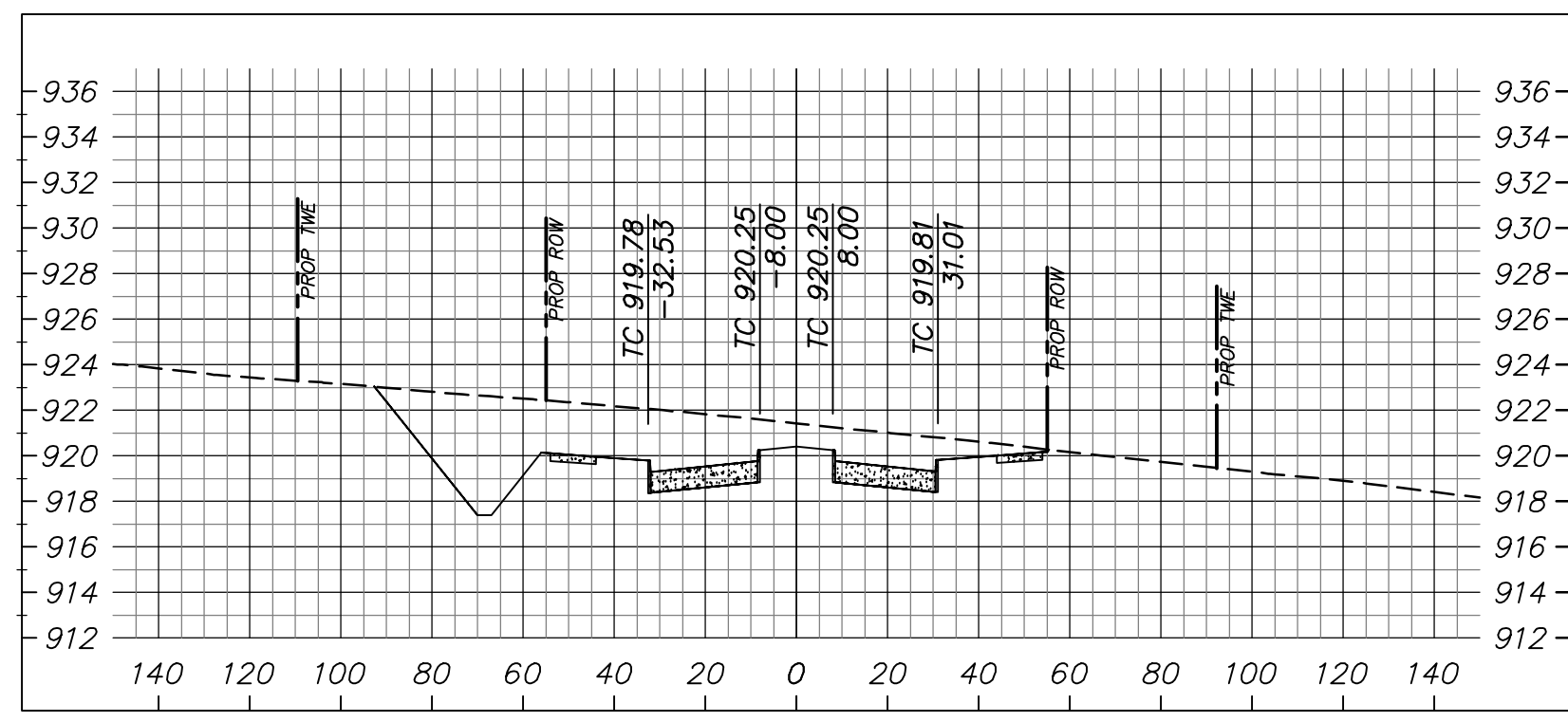
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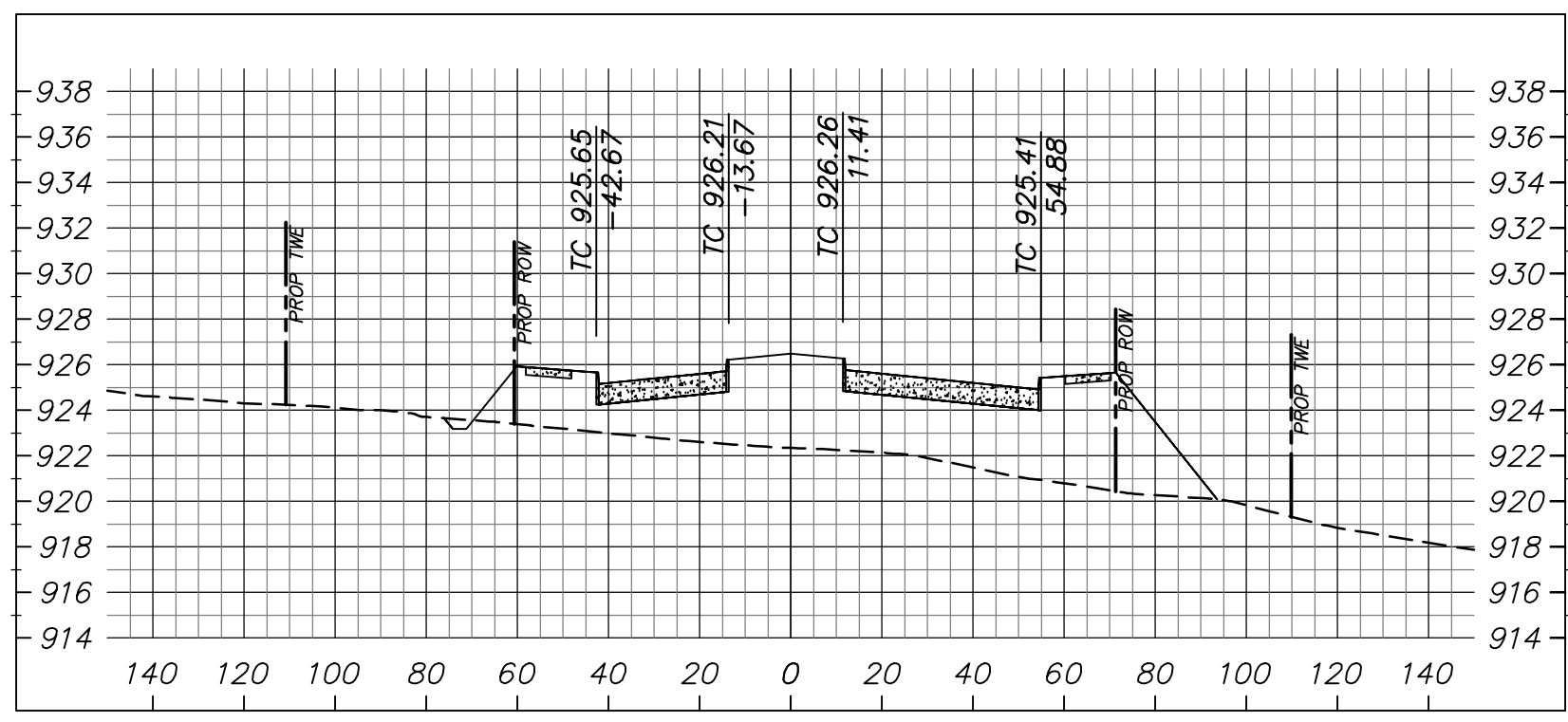
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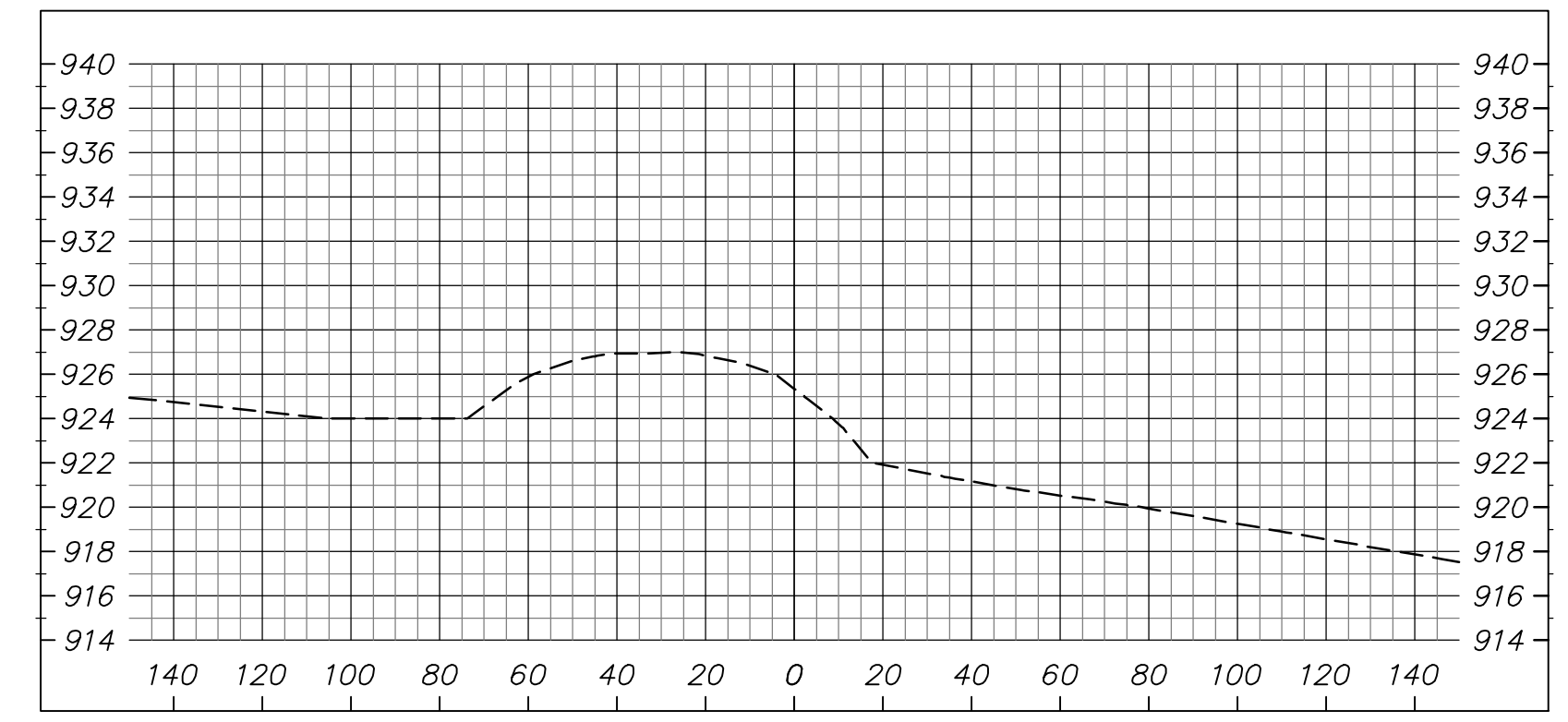
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50+50.00



52+00.00



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 PLOTTED BY: QUINTEEN D. PLUMER
 PLOTTED AT: 7/23/22 PM

NO.	REVISION	BY	DATE

QDP	DESIGNED	JDW	DRAWN	LAM	CHECKED
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SCALE	DATE
HORIZ 1" = 40'	OCTOBER 2022
VERT 1" = 8'	

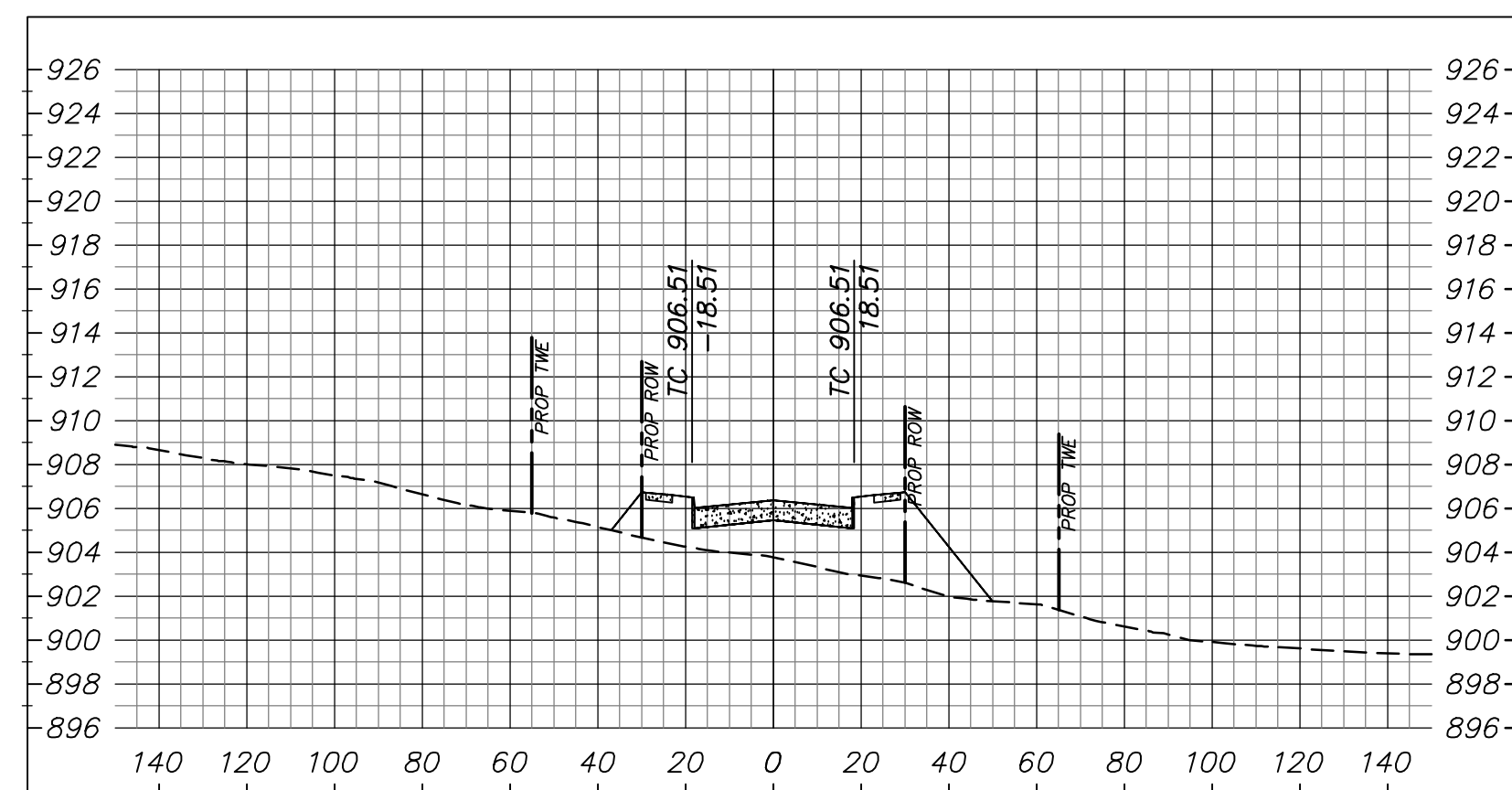
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 QUINTEEN D. PLUMER
 P.E.# 138475 DATE: October 3, 2022

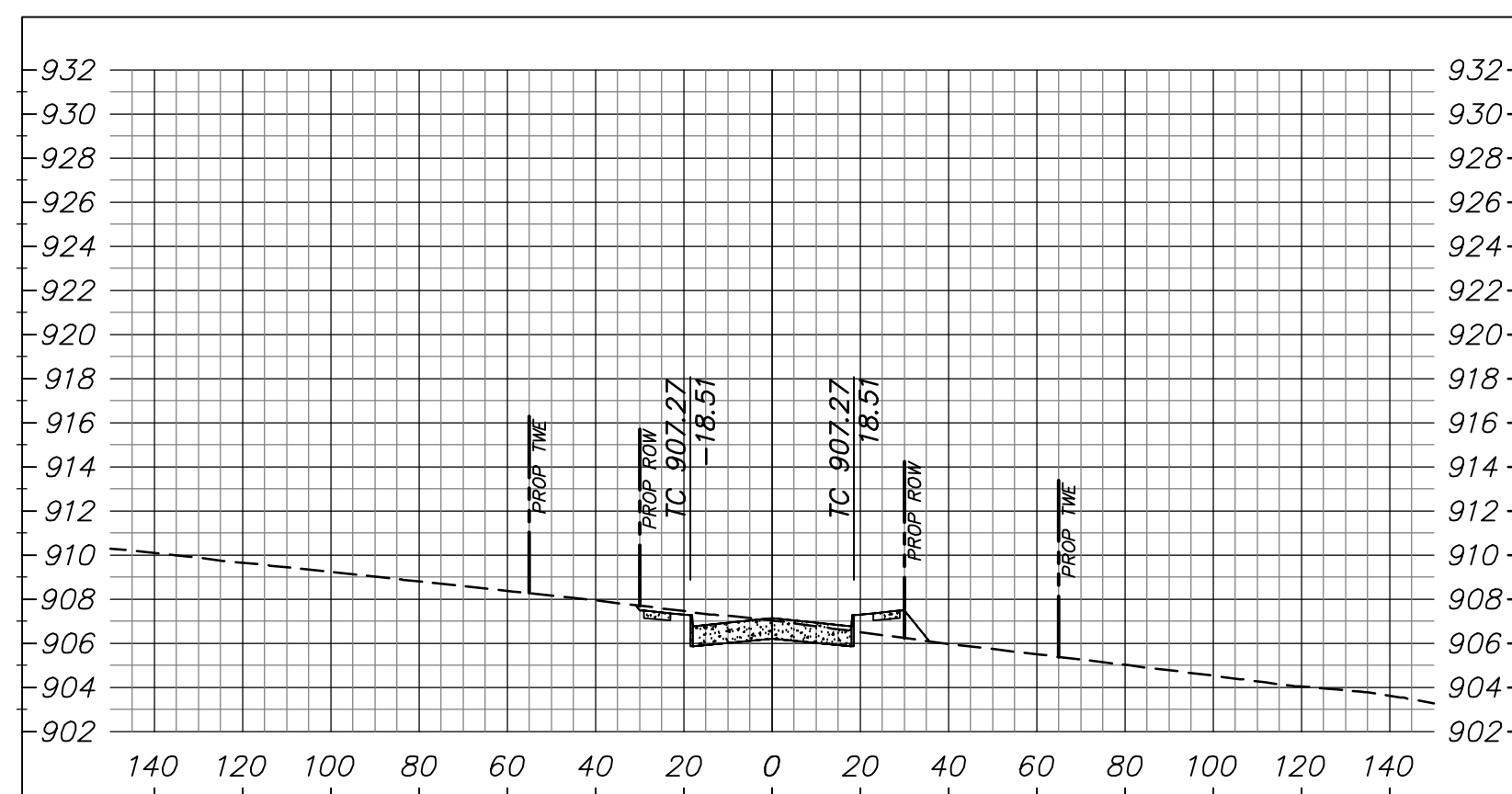
TARRANT COUNTY, TEXAS
BENTLEY BRIDGE DRIVE
CROSS SECTIONS - BENTLEY BRIDGE DRIVE STA 50+50 TO STA 52+00

DA PROJECT 2001169.033	SHEET 25
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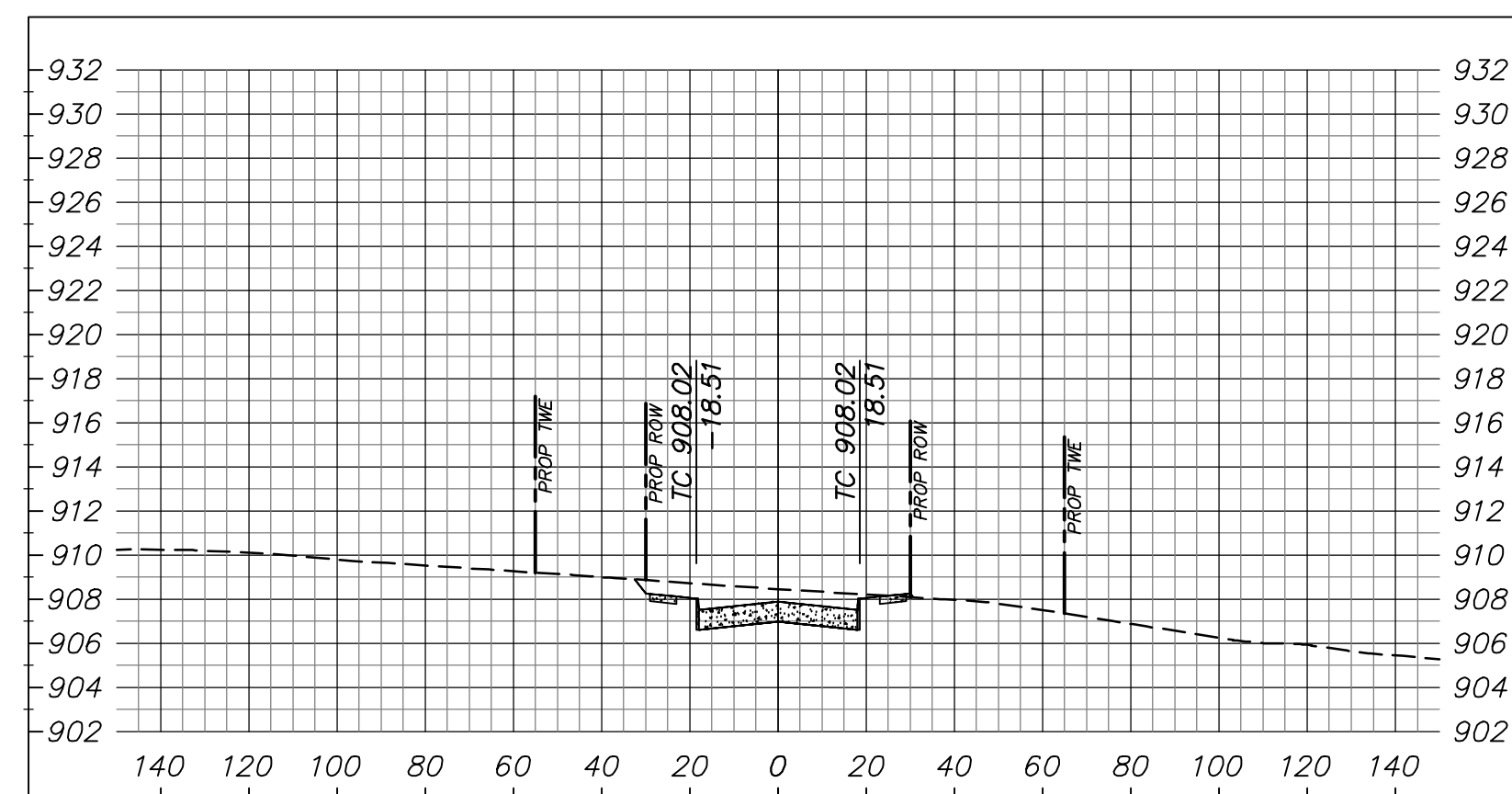
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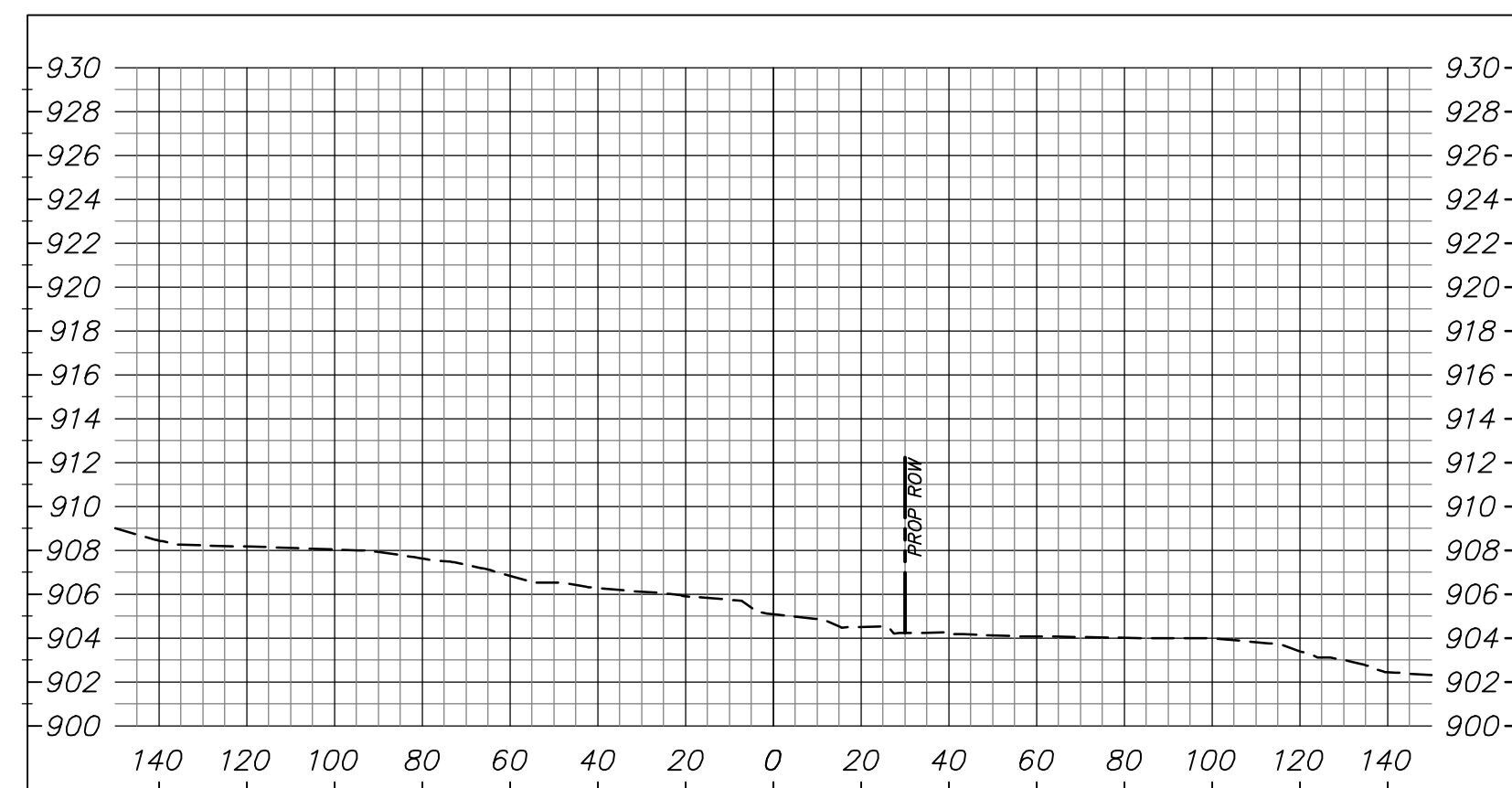
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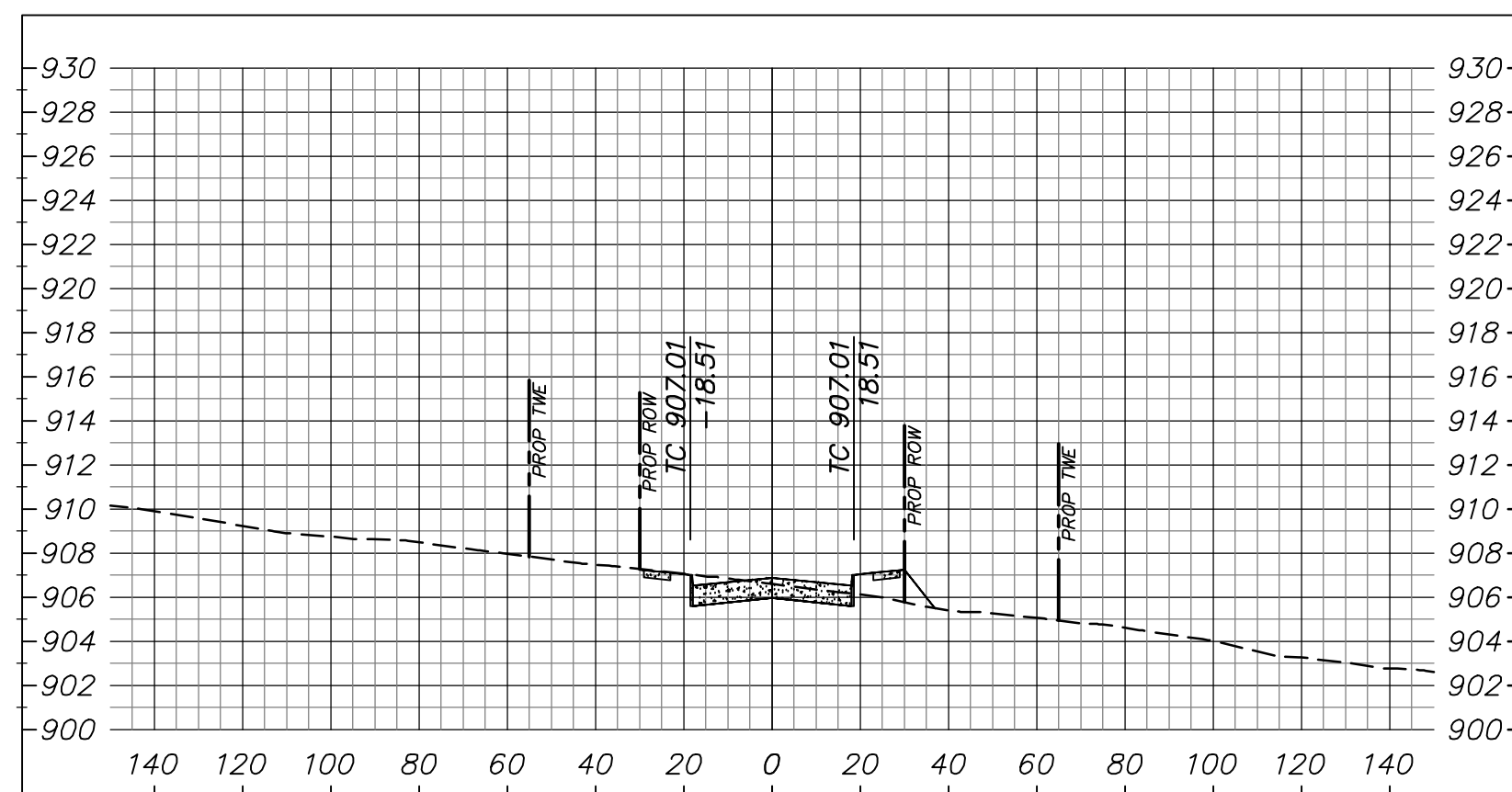
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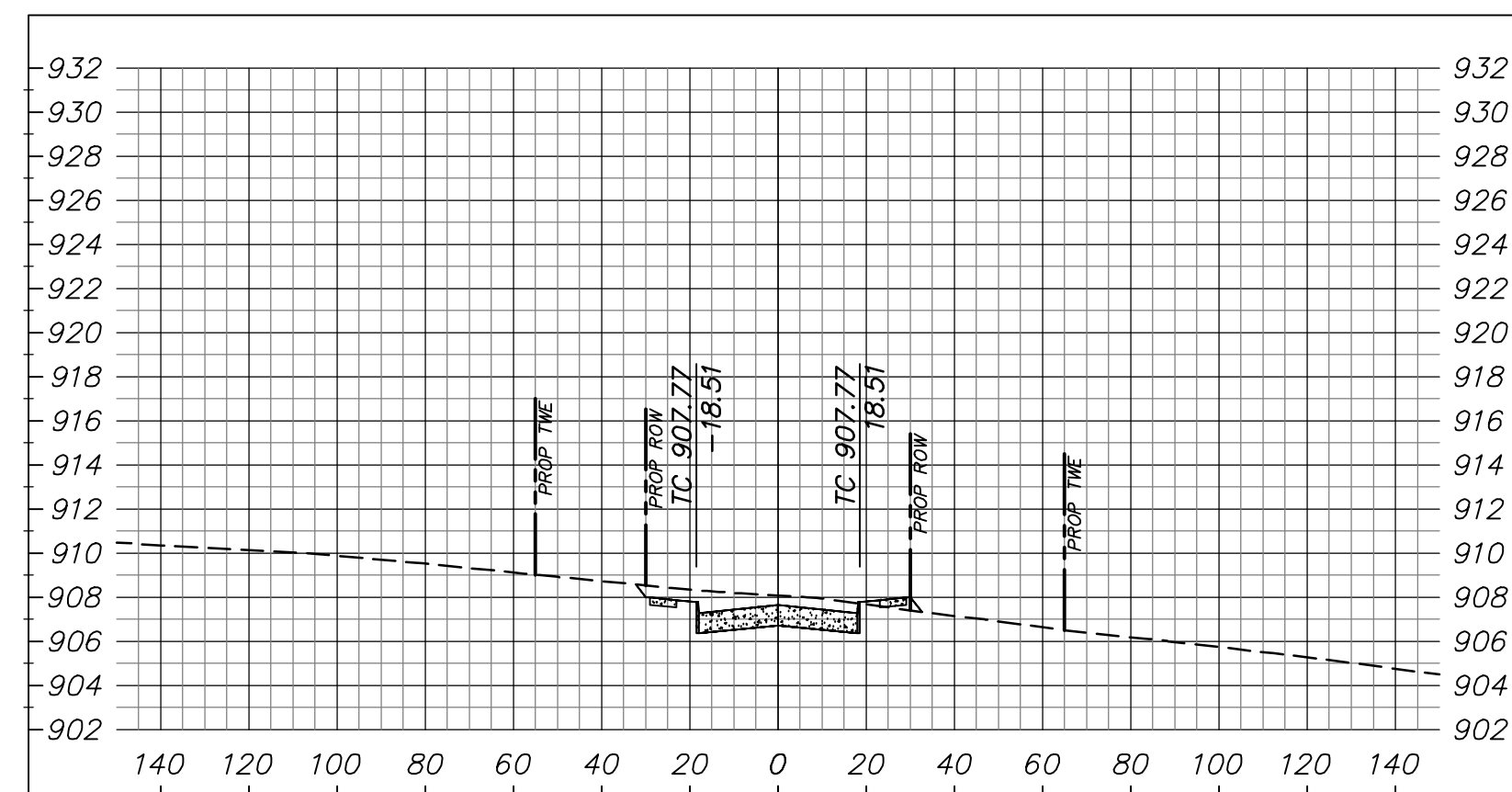
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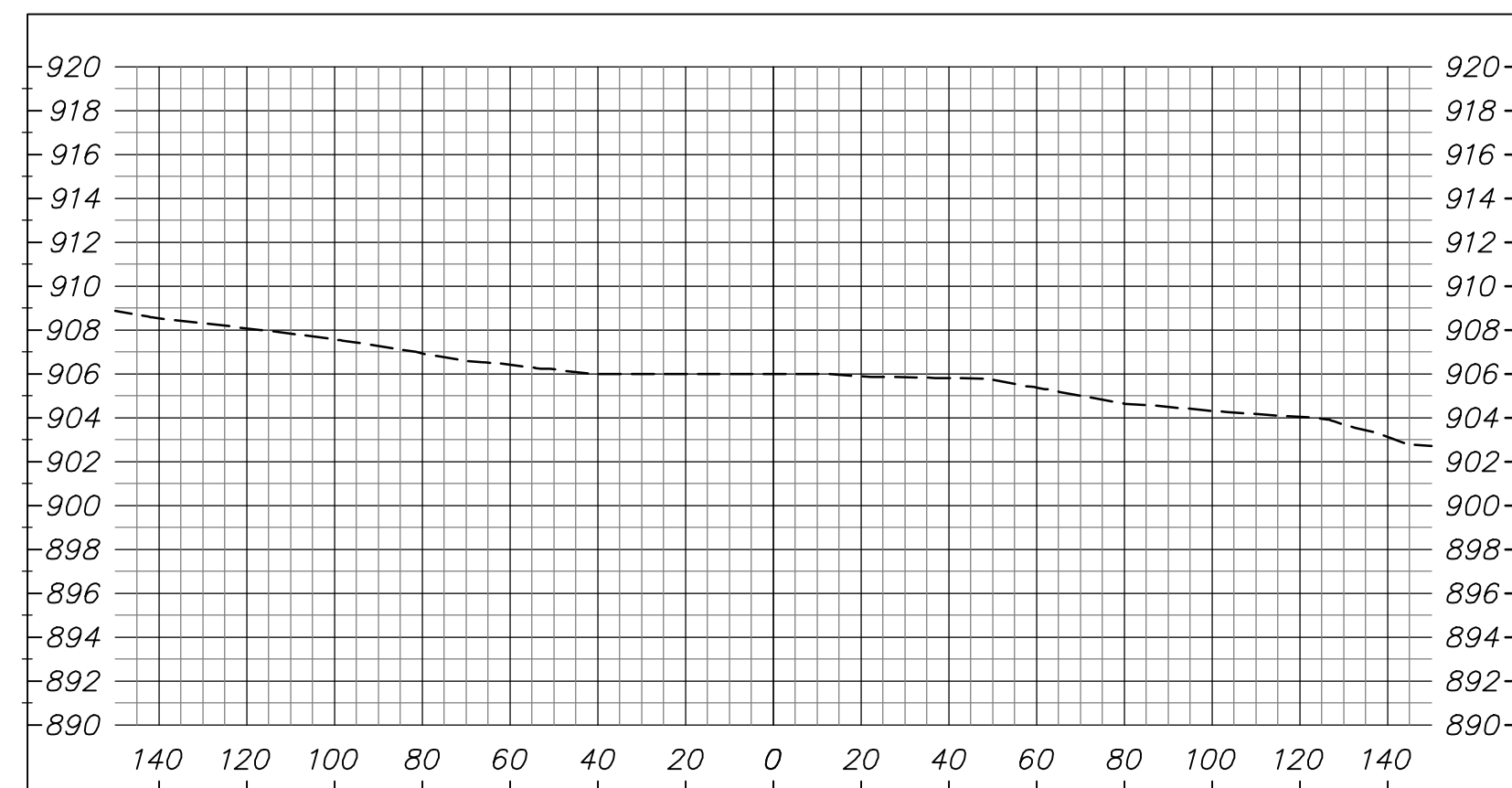
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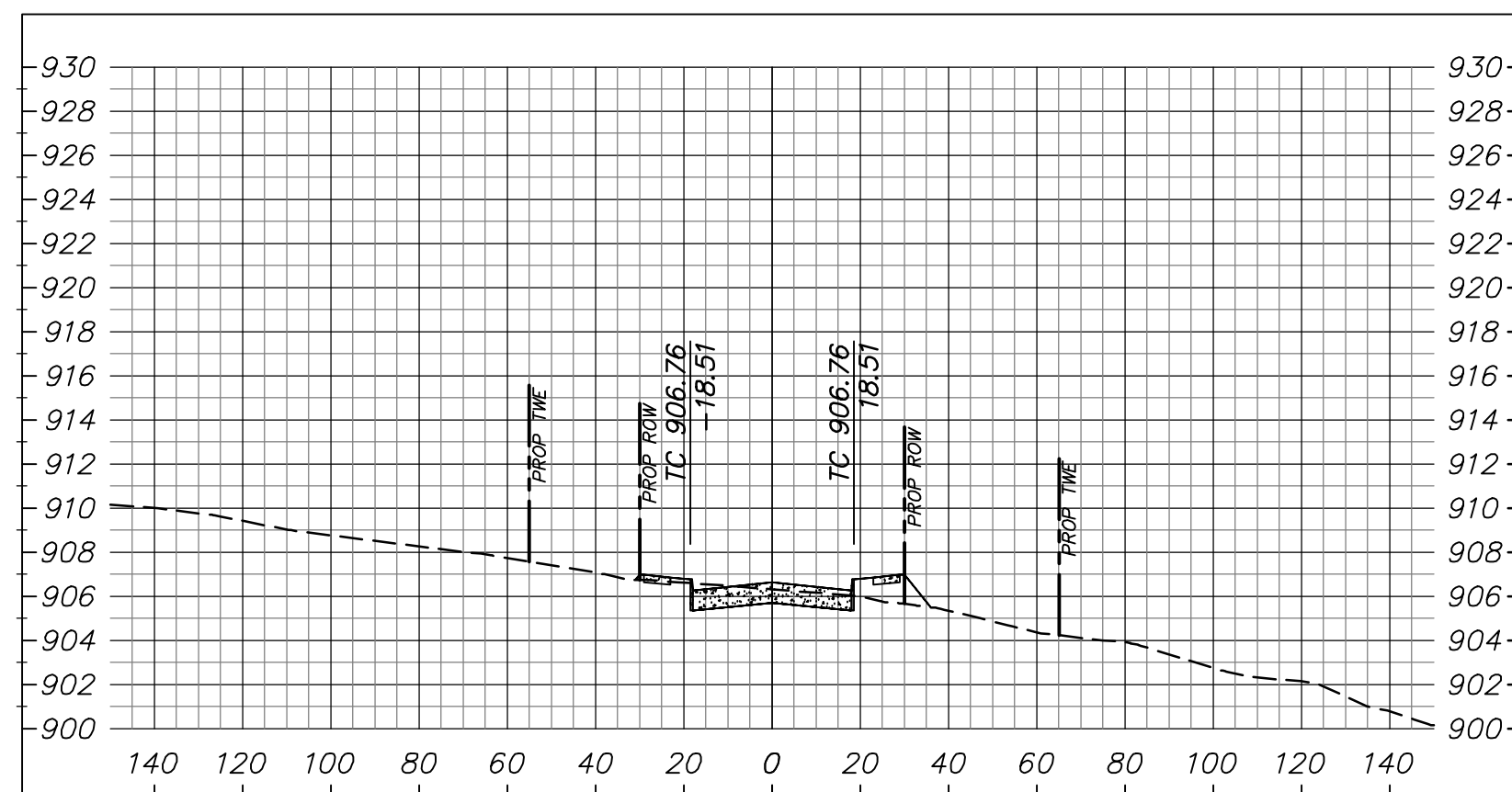
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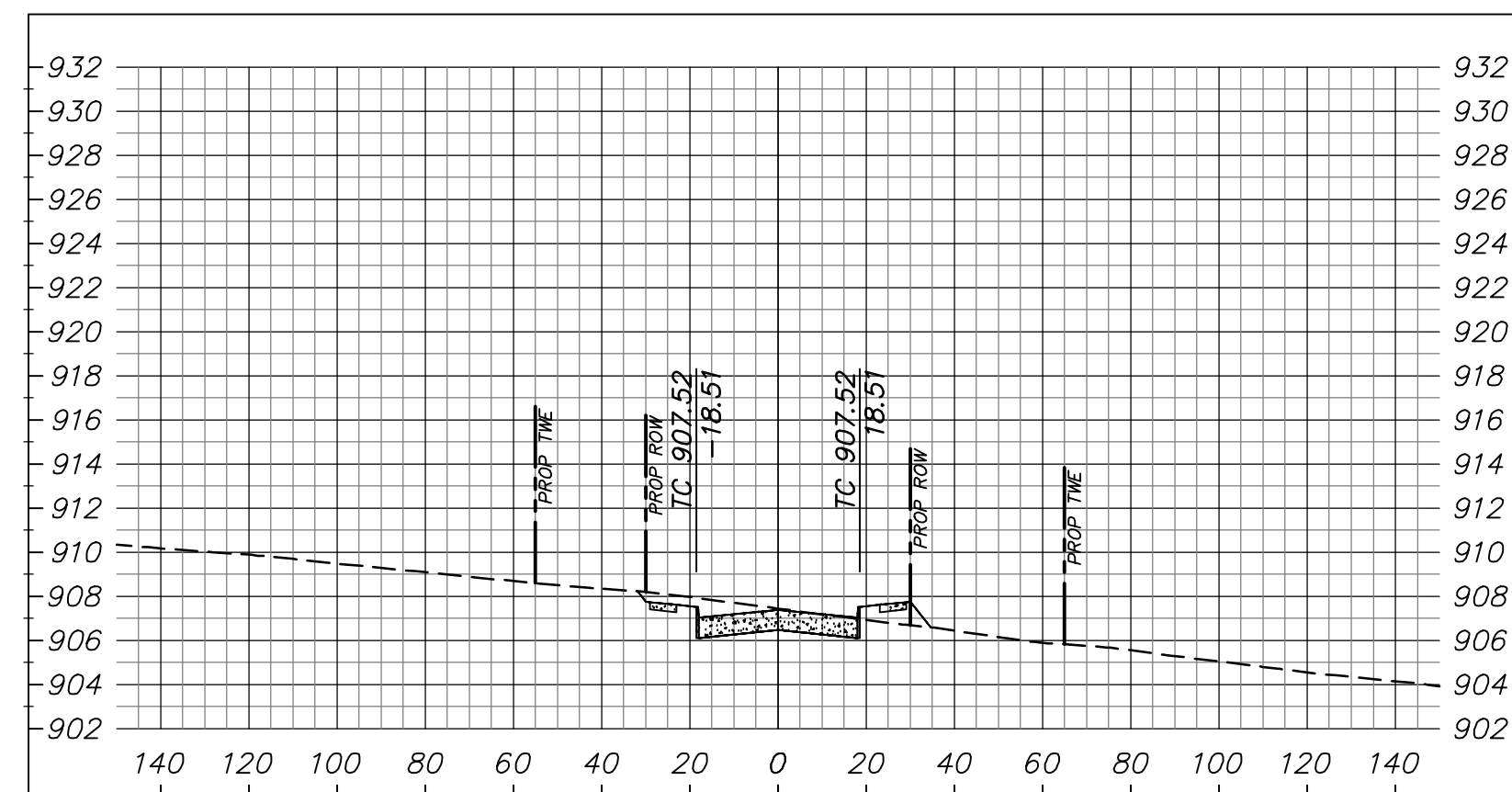
69+50.00



71+00.00



72+50.00



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PLOT DATE: 10/03/2022 10:00:00 AM
PLOTTER: HP DesignJet 500

NO.	REVISION	BY	DATE

QDP	CHECKED
DESIGNED	
JDW	
DRAWN	
LAM	



SCALE	DATE
HORIZ 1" = 40'	OCTOBER 2022
VERT 1" = 8'	

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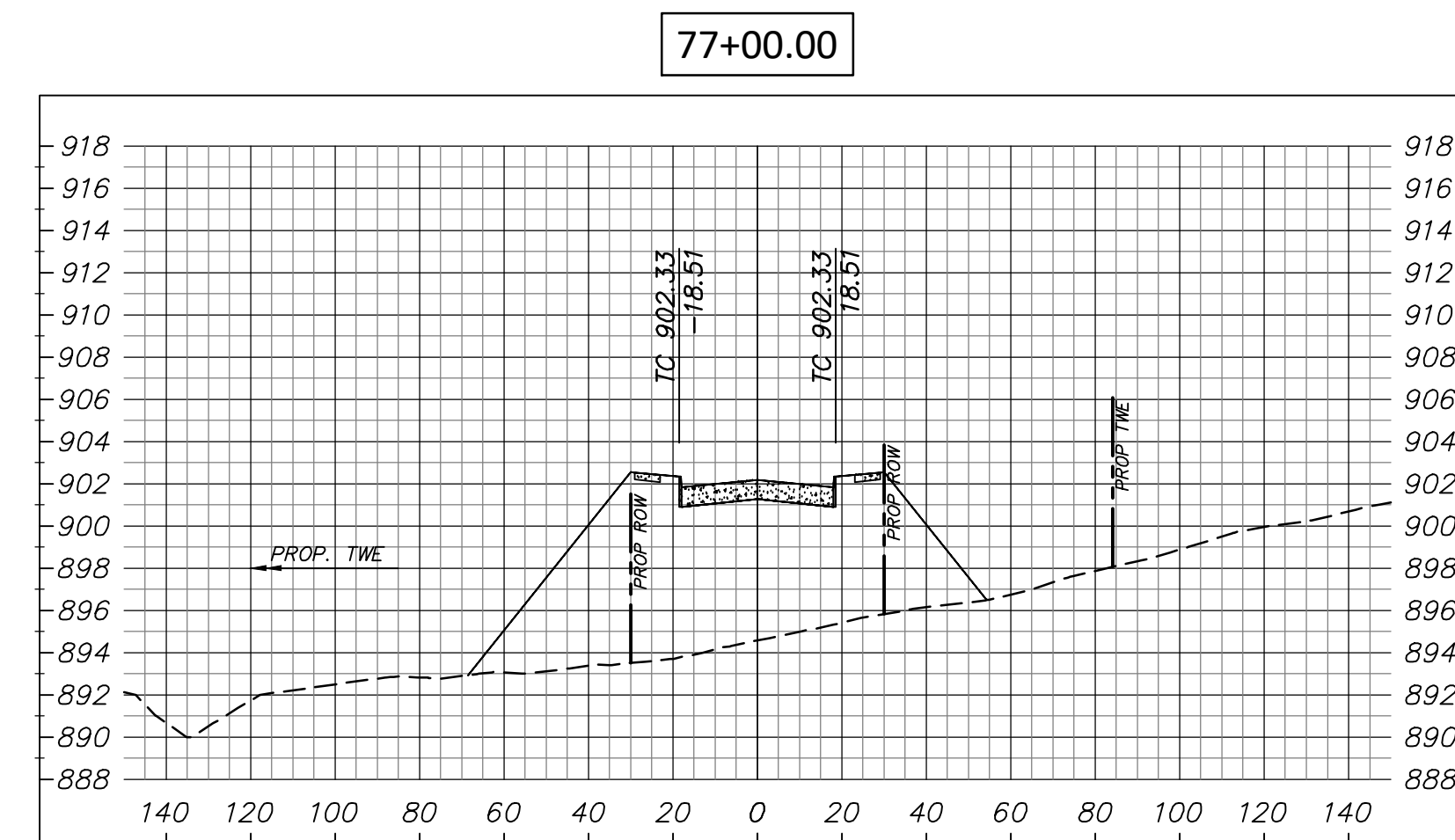
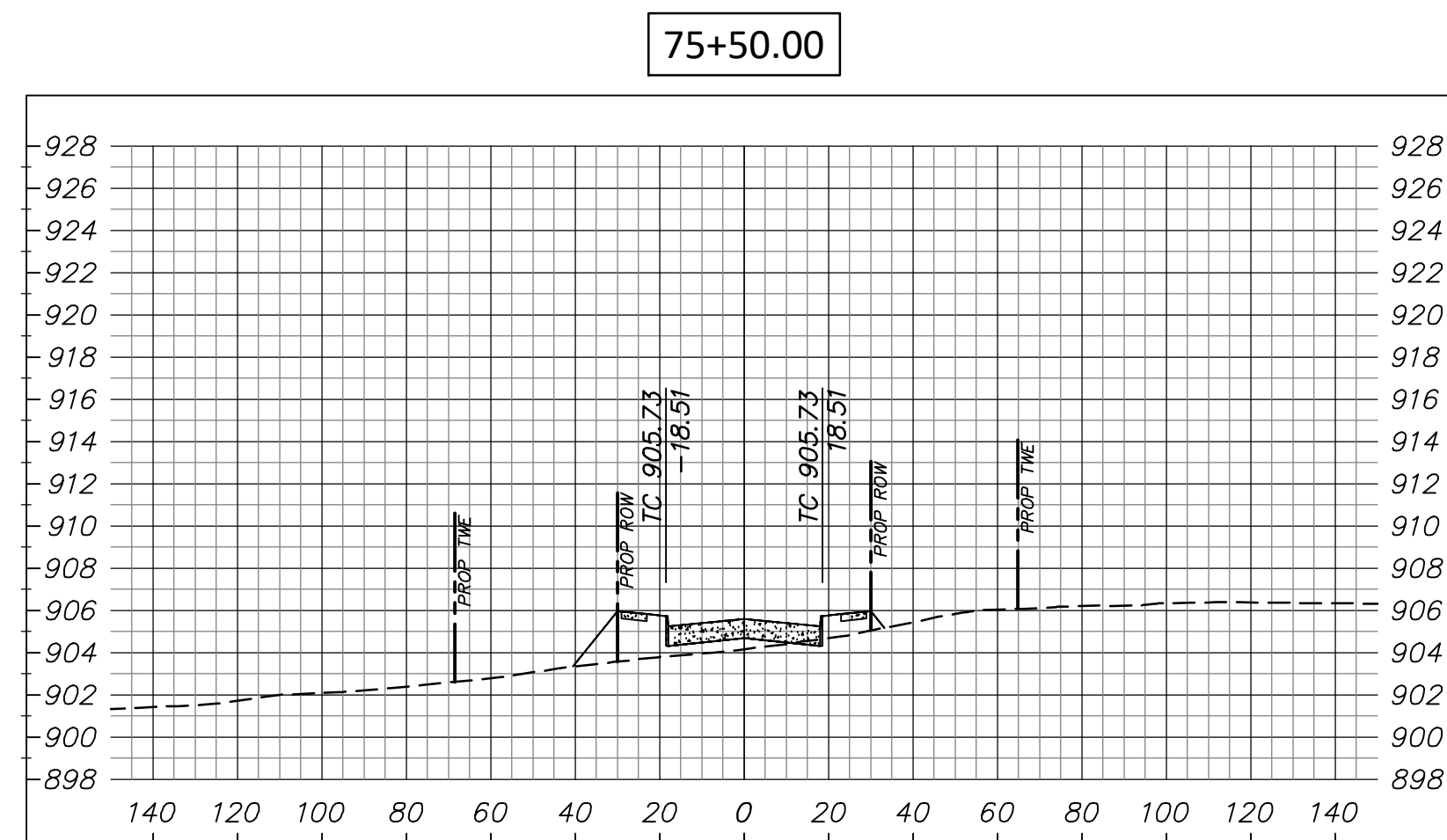
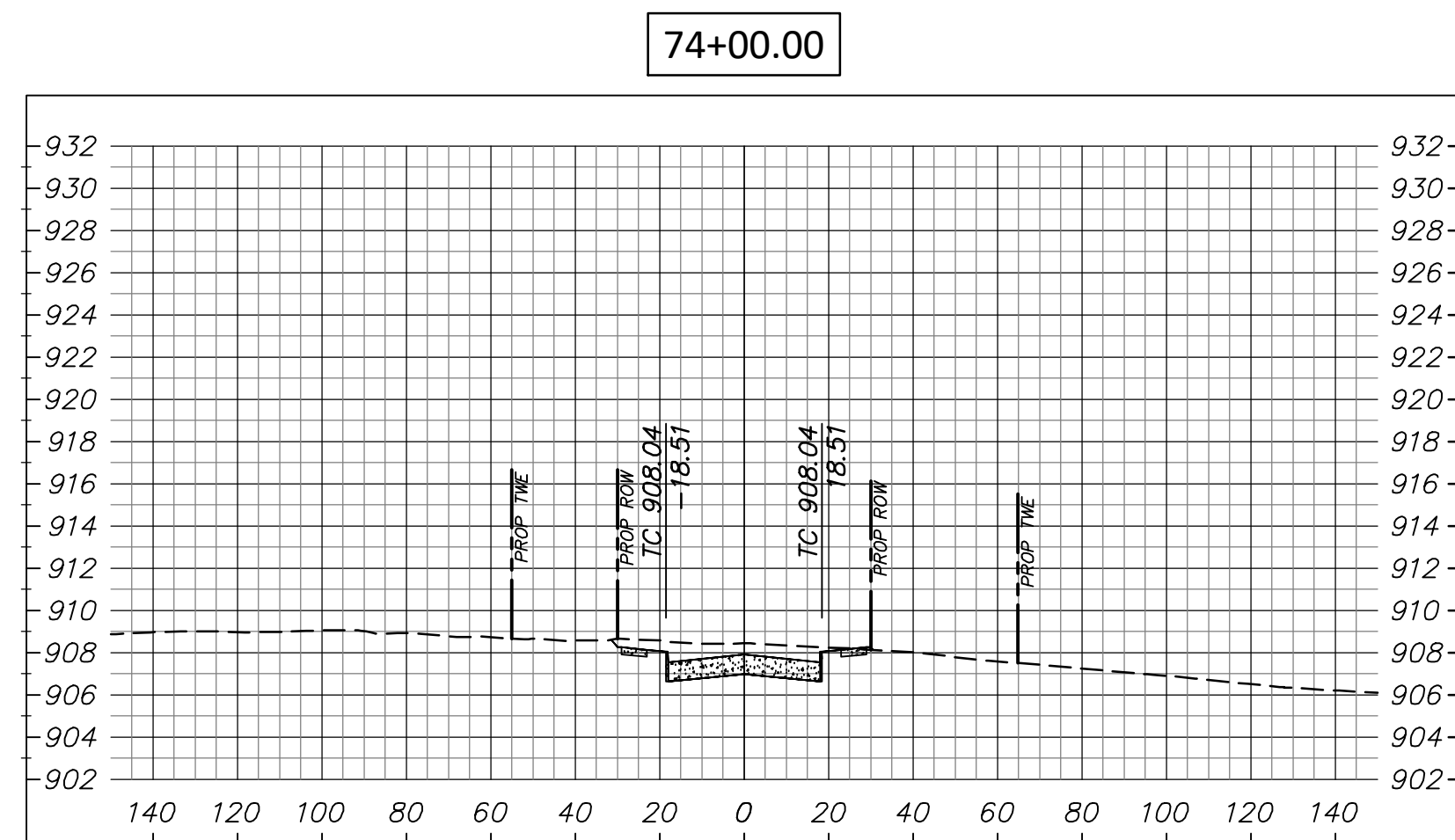
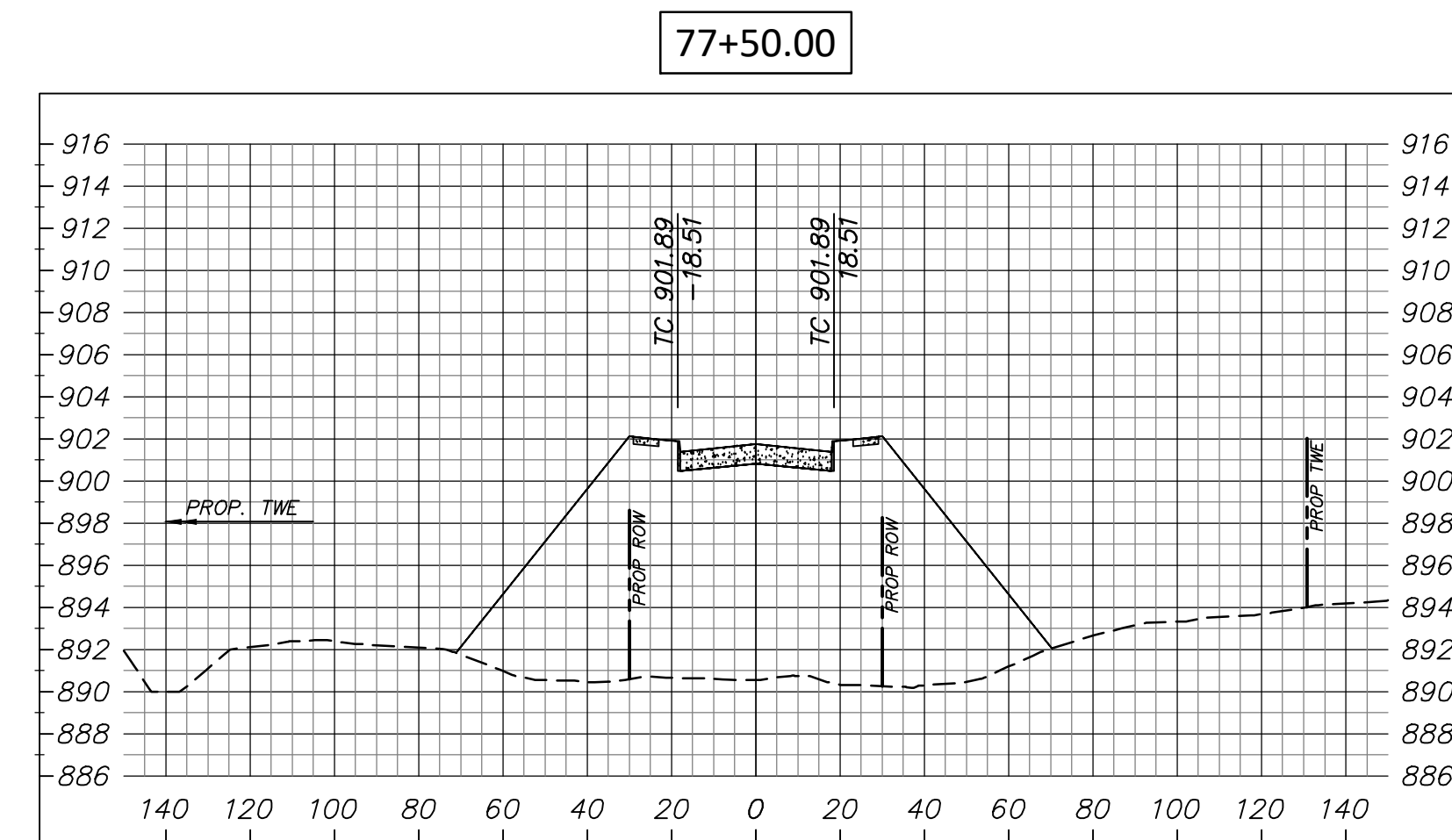
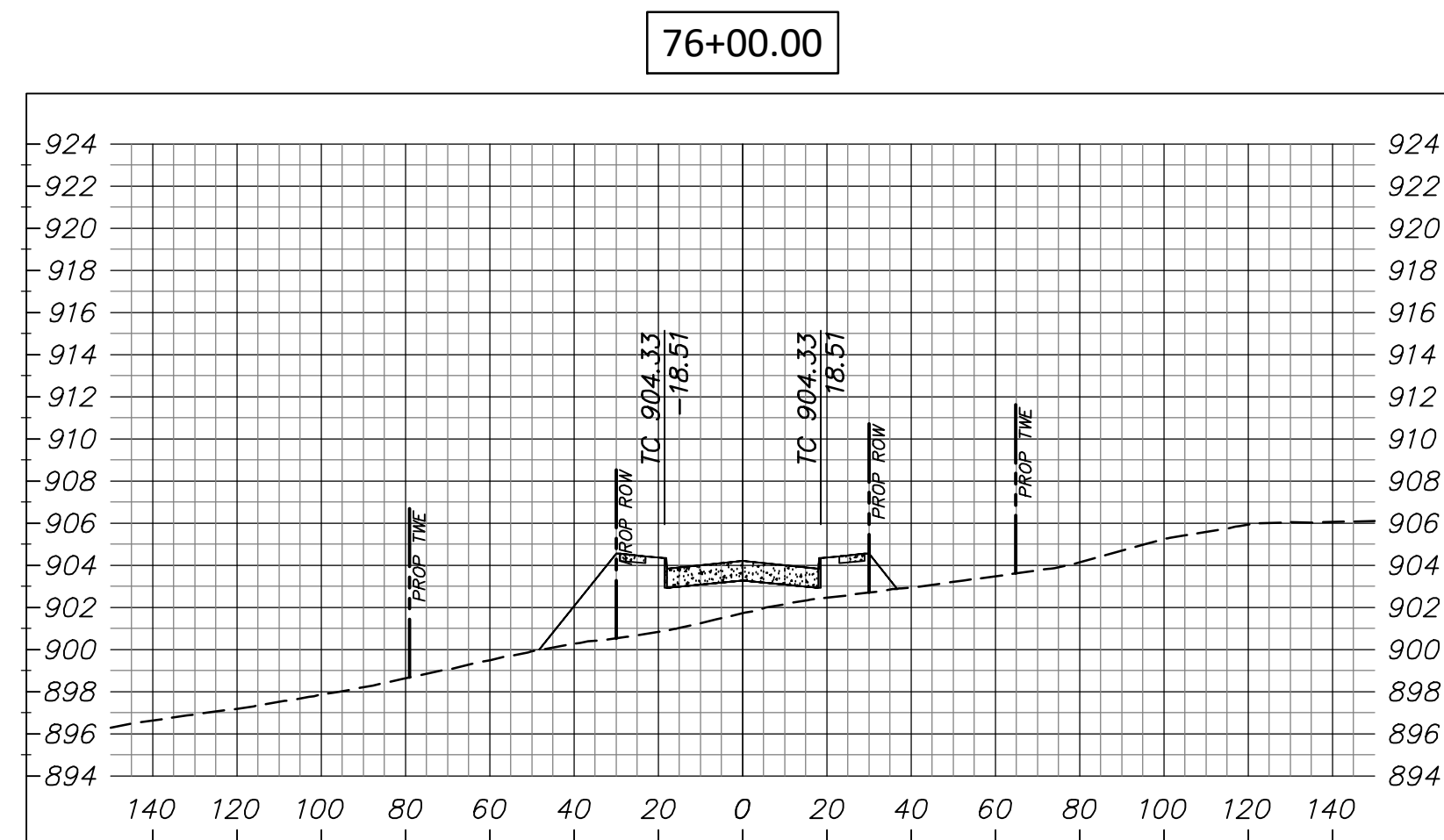
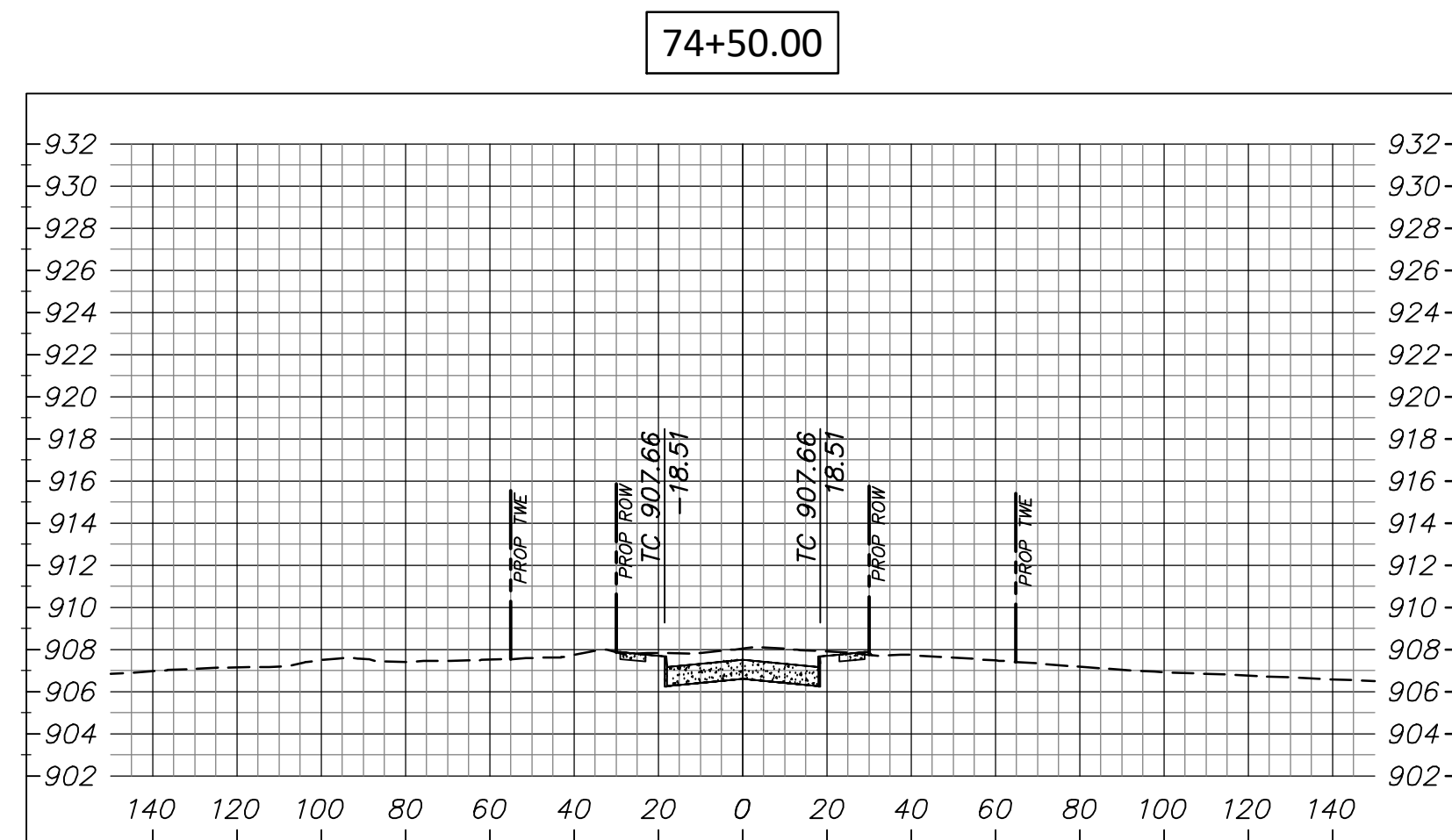
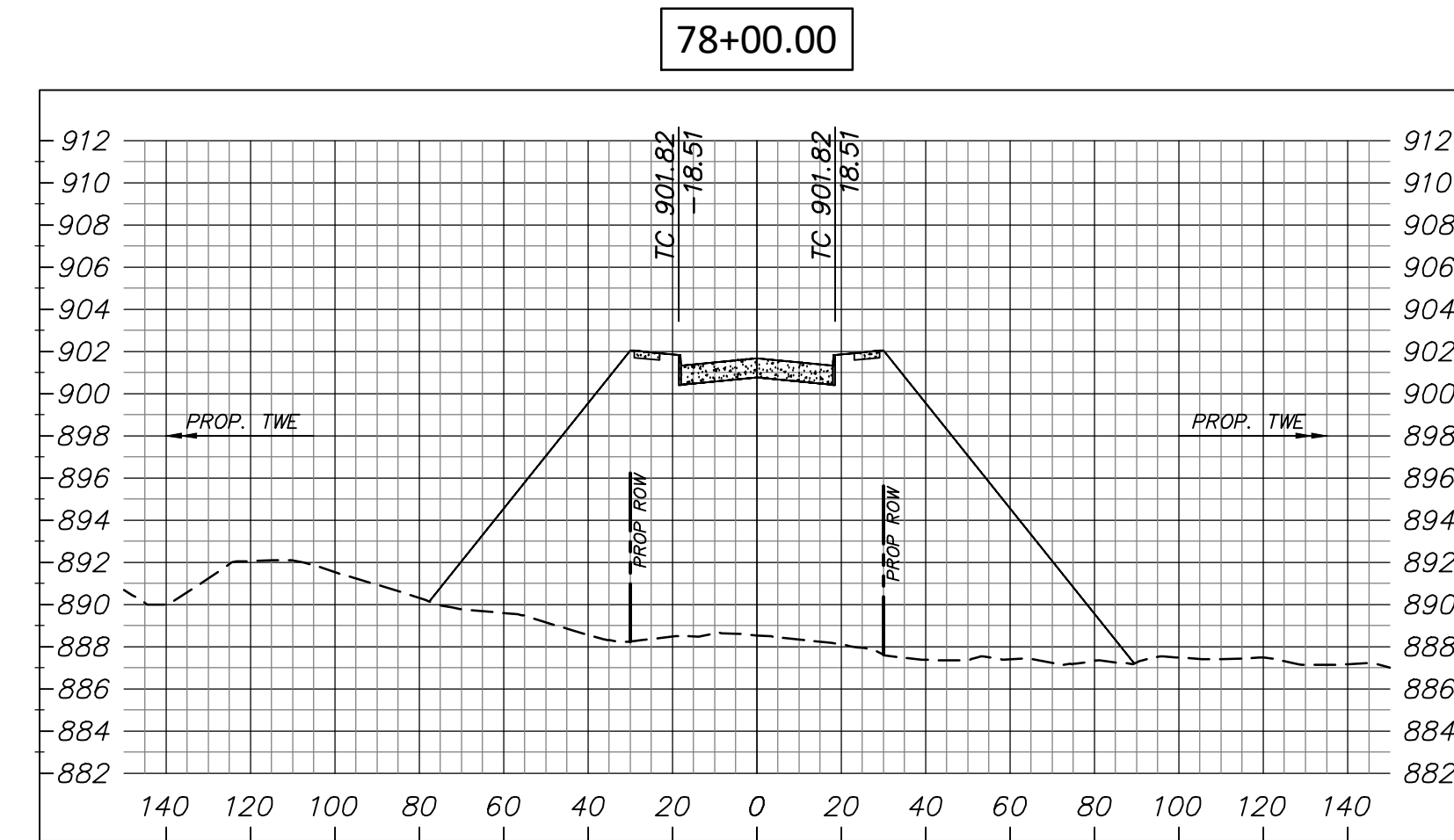
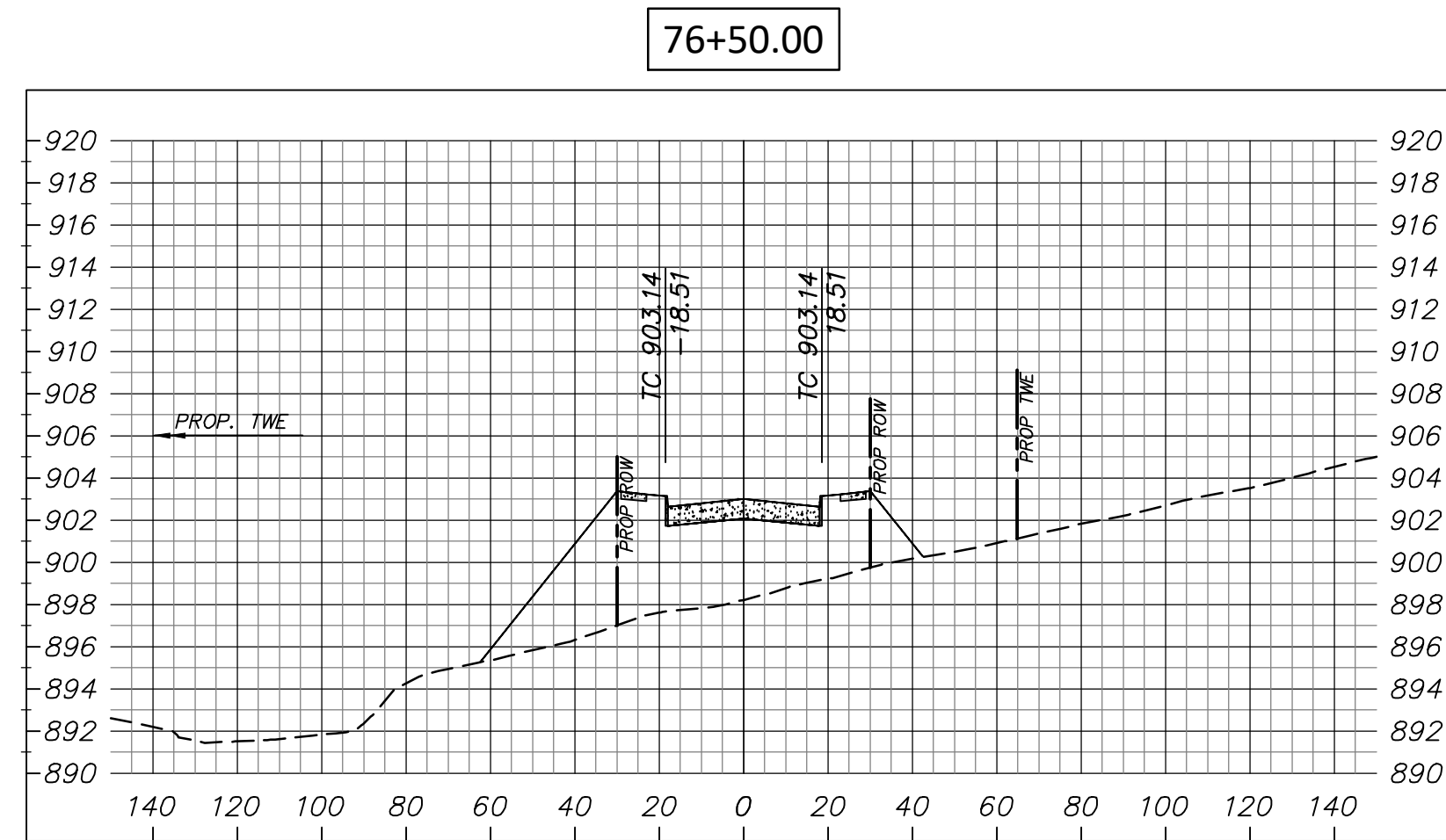
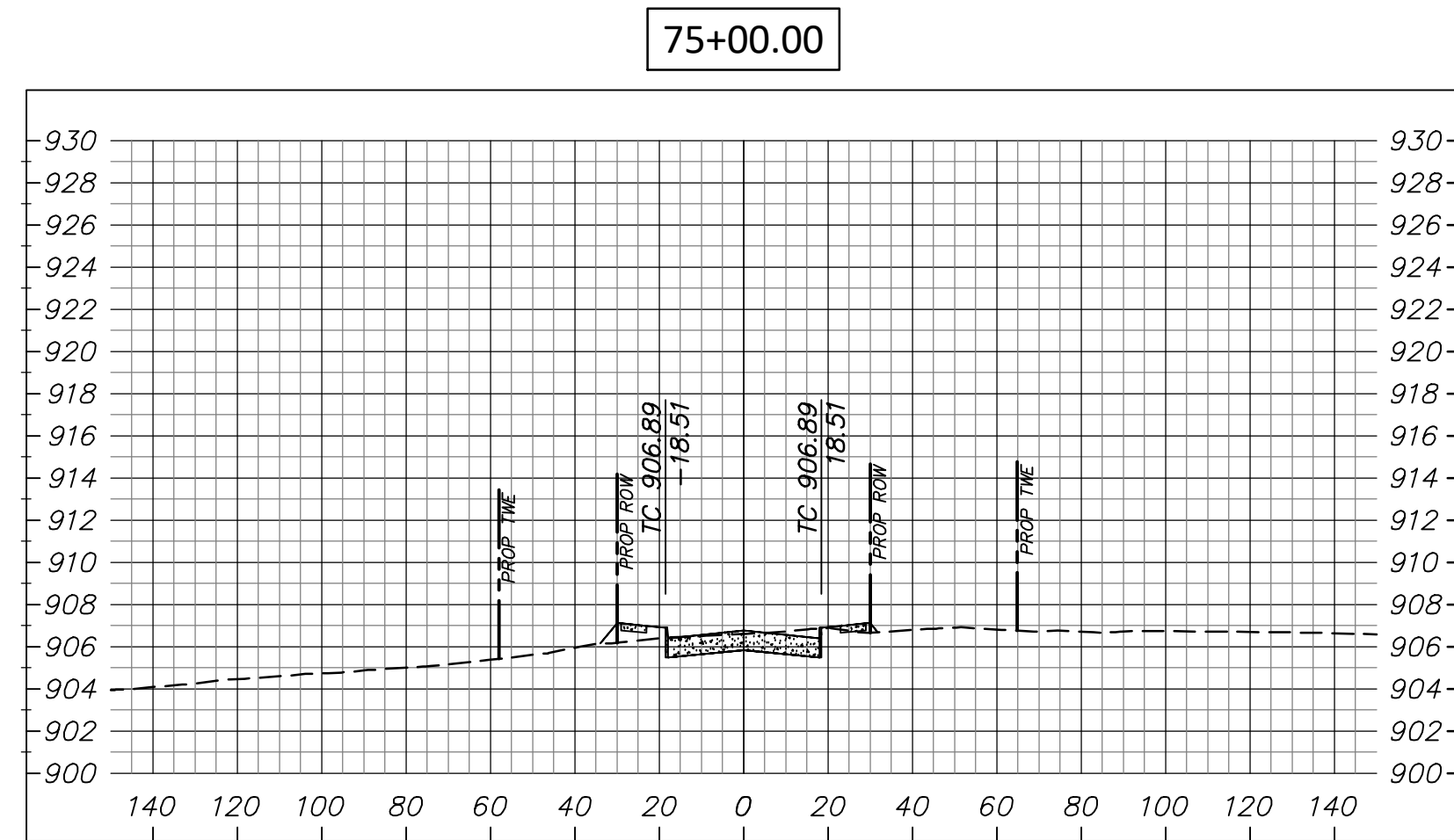
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QUINTEN D. FLUMER
P.E.# 138475 DATE: October 3, 2022

TARRANT COUNTY, TEXAS
BENTLEY BRIDGE DRIVE
CROSS SECTIONS - ALEDO ROAD
CONNECTOR STA 69+50 TO STA 73+50

DA PROJECT
2001169.033
SHEET
26

Full Path: G:\Production\PlannedCommunity\2001\2001_08\Engineering\033 Bentley Road Schematic\Civil\Drawings\Plan Sheets\A-LEC.dwg

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 Plotted By: Quinten Plumer
 Plotted At: 7:43:18 PM



NO.	REVISION	BY	DATE

QDP	CHECKED
DESIGNED	
JDW	
DRAWN	
LAM	



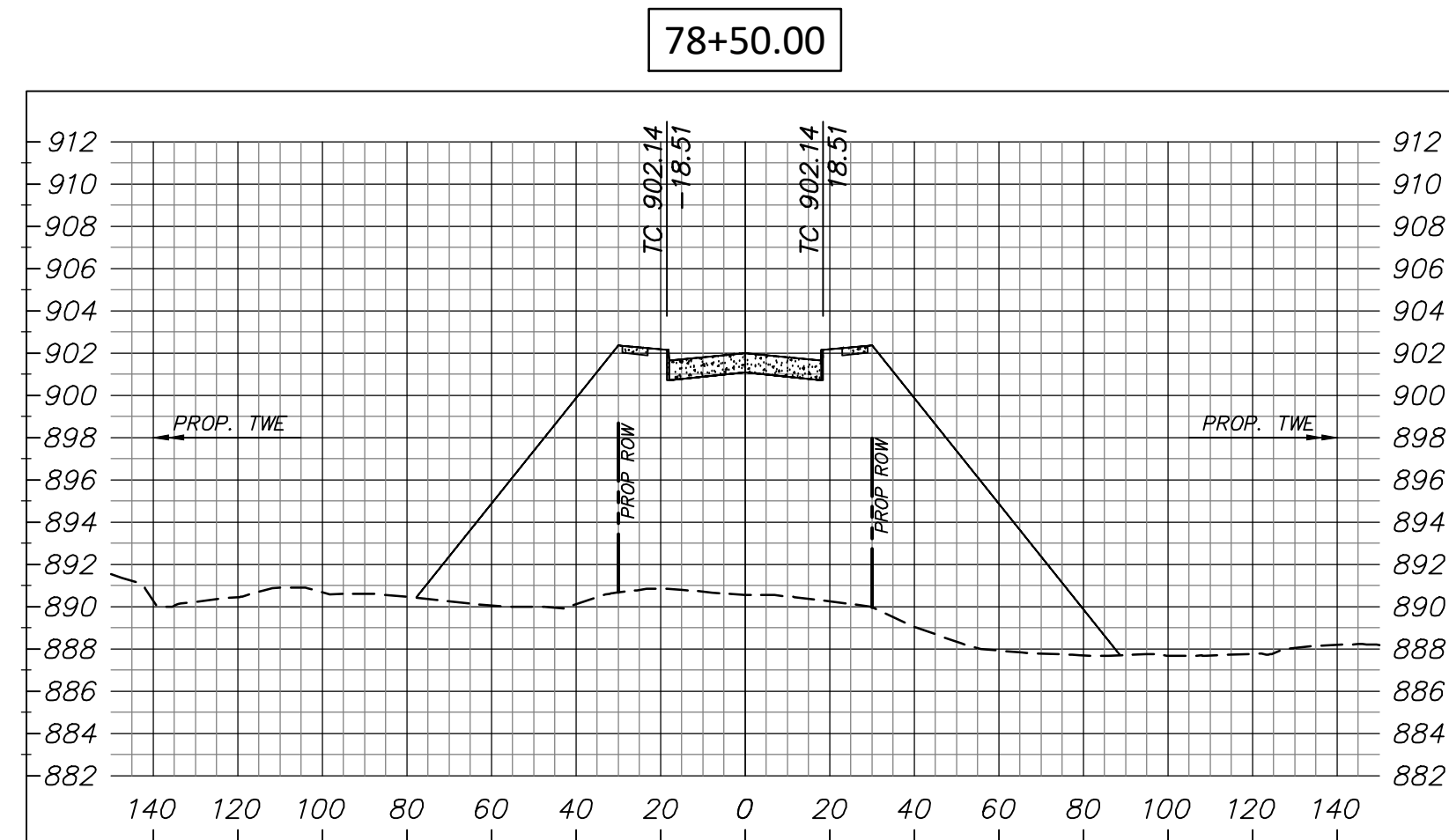
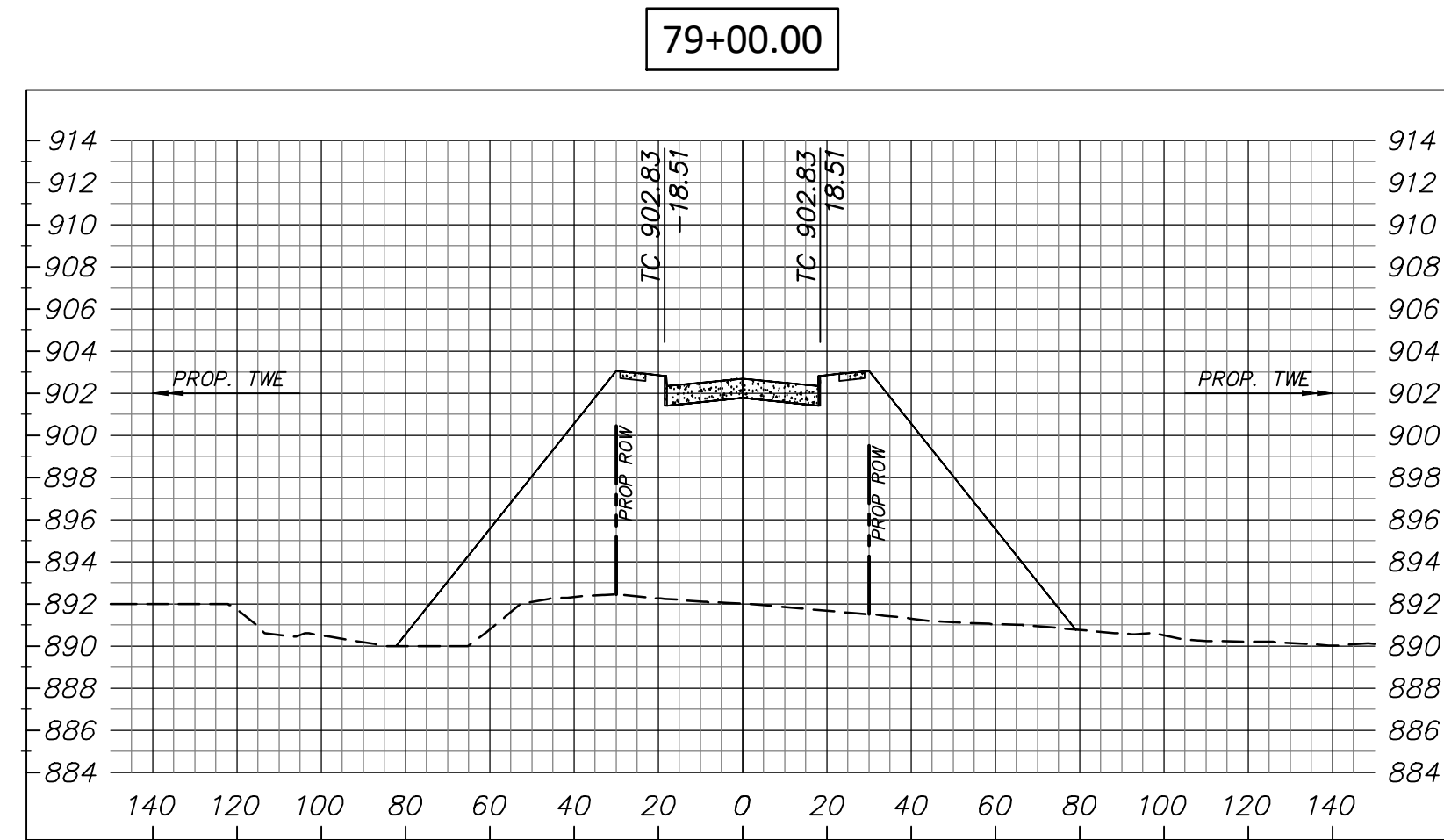
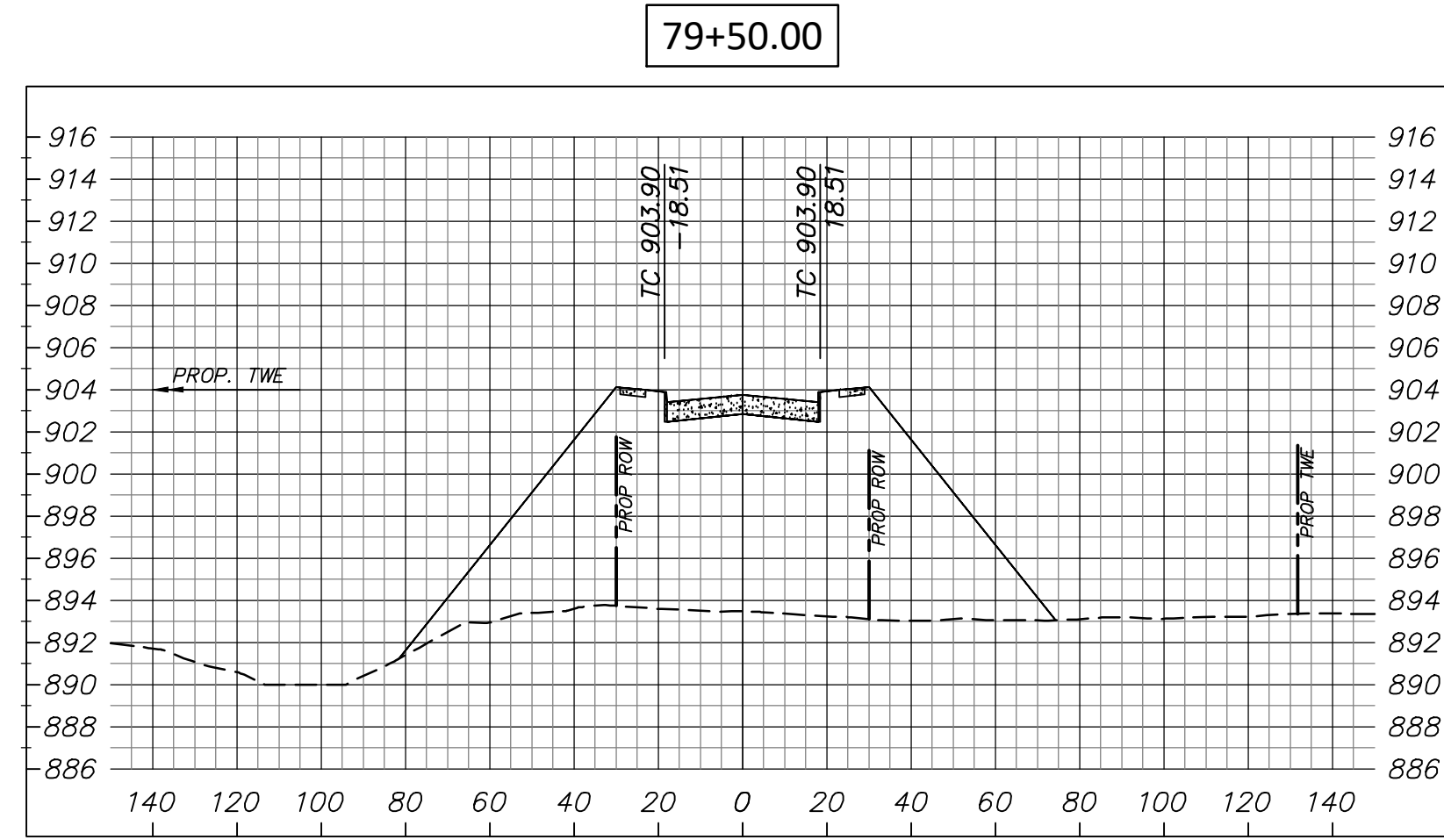
SCALE	DATE
HORIZ 1" = 40'	OCTOBER 2022
VERT 1" = 8'	

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 QUINTEN D. PLUMER
 P.E.# 138475 DATE: October 3, 2022

TARRANT COUNTY, TEXAS
BENTLEY BRIDGE DRIVE
CROSS SECTIONS - ALEDO ROAD
CONNECTOR STA 74+00 TO STA 78+00

DA PROJECT
 2001169.033
 SHEET
27



BENTLEY BRIDGE DRIVE - VOLUME TABLE							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
9+50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10+00.00	0.00	198.76	0.00	1669.60	0.00	1669.60	-1669.60
10+50.00	0.00	209.70	0.00	3439.66	0.00	5109.26	-5109.26
11+00.00	0.00	160.95	0.00	3088.73	0.00	8197.99	-8197.99
11+50.00	0.00	65.42	0.03	1886.39	0.03	10084.38	-10084.35
12+00.00	1.41	32.85	11.82	818.94	11.84	10903.33	-10891.48
12+50.00	5.03	14.95	53.70	398.34	65.54	11301.67	-11236.13
13+00.00	11.98	8.40	141.76	194.54	207.29	11496.21	-11288.92
13+50.00	18.18	6.47	251.32	123.90	458.61	11620.11	-11161.50
14+00.00	21.30	6.11	328.93	104.82	787.54	11724.93	-10937.39
14+50.00	22.03	6.23	361.07	102.83	1148.61	11827.76	-10679.15
15+00.00	22.84	5.65	373.94	99.00	1522.55	11926.77	-10404.21
15+50.00	20.77	4.96	363.43	88.42	1885.99	12015.19	-10129.20
16+00.00	15.32	5.52	300.80	87.40	2186.78	12102.58	-9915.80
16+50.00	4.92	9.79	168.73	127.61	2355.52	12230.19	-9874.68
17+00.00	1.70	21.07	55.17	257.18	2410.69	12487.37	-10076.68
17+50.00	0.65	31.00	19.52	433.97	2430.21	12921.34	-10491.12
18+00.00	0.17	39.04	6.81	583.69	2437.03	13505.03	-11068.00
18+50.00	0.23	55.12	3.31	784.67	2440.34	14289.70	-11849.36
19+00.00	0.08	99.61	2.57	1289.47	2442.91	15579.16	-13136.26
19+50.00	0.89	111.66	8.06	1760.60	2450.97	17339.77	-14888.80
20+00.00	0.88	54.22	14.75	1382.35	2465.72	18722.12	-16256.40
20+50.00	1.19	38.32	17.29	771.19	2483.01	19493.31	-17010.30
21+00.00	1.41	30.63	21.68	574.53	2504.68	20067.84	-17563.16
21+50.00	1.52	25.39	24.47	466.82	2529.16	20534.66	-18005.51
22+00.00	1.58	23.28	25.84	405.63	2555.00	20940.29	-18385.29
22+50.00	1.56	21.44	26.18	372.72	2581.18	21313.01	-18731.83
23+00.00	1.81	19.26	28.12	339.16	2609.29	21652.16	-19042.87
23+50.00	2.12	17.76	32.72	308.45	2642.02	21960.61	-19318.60
24+00.00	2.60	15.53	39.29	277.43	2681.31	22238.04	-19556.73
24+50.00	3.63	12.81	51.88	236.23	2733.19	22474.27	-19741.08
25+00.00	5.49	9.47	75.99	185.69	2809.18	22659.96	-19850.78
25+50.00	8.96	6.30	120.46	131.41	2929.64	22791.37	-19861.73
26+00.05	16.14	4.61	209.40	91.01	3139.04	22882.38	-19743.34
26+50.00	29.71	0.74	381.76	44.51	3520.80	22926.90	-19406.09
27+00.00	43.56	0.01	610.55	6.19	4131.35	22933.08	-18801.73
27+50.00	58.90	0.03	853.77	0.35	4985.12	22933.43	-17948.31
28+00.00	67.91	0.00	1056.76	0.29	6041.88	22933.72	-16891.84
28+50.00	78.38	0.00	1219.13	0.01	7261.01	22933.73	-15672.72
29+00.00	87.39	0.00	1381.46	0.01	8642.47	22933.75	-14291.27
29+50.00	92.08	0.00	1495.61	0.00	10138.08	22933.75	-12795.66
30+00.00	95.90	0.00	1566.49	0.02	11704.57	22933.77	-11229.20
30+50.00	100.82	0.00	1639.35	0.03	13343.93	22933.80	-9589.88

BENTLEY BRIDGE DRIVE - VOLUME TABLE							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
31+00.00	106.50	0.00	1727.66	0.01	15071.58	22933.81	-7862.22
31+50.00	109.99	0.00	1804.05	0.00	16875.63	22933.81	-6058.18
32+00.00	112.59	0.00	1854.81	0.00	18730.43	22933.81	-4203.38
32+50.00	116.50	0.00	1909.06	0.00	20639.50	22933.81	-2294.32
33+00.00	119.41	0.00	1965.88	0.00	22605.37	22933.81	-328.44
33+50.00	118.78	0.00	1984.90	0.00	24590.28	22933.82	1656.46
34+00.00	118.73	0.02	1979.30	0.18	26569.57	22934.00	3635.58
34+50.00	122.54	0.00	2010.58	0.18	28580.15	22934.18	5645.97
35+00.00	124.56	0.00	2059.10	0.01	30639.25	22934.19	7705.07
35+50.00	125.31	0.00	2082.18	0.00	32721.43	22934.19	9787.24
36+00.00	115.83	0.00	2009.49	0.00	34730.92	22934.19	11796.73
36+50.00	94.96	0.00	1756.57	0.00	36487.50	22934.19	13553.31
37+00.00	66.70	0.03	1347.12	0.27	37834.62	22934.46	14900.16
37+50.00	36.73	0.09	861.95	1.05	38696.56	22935.51	15761.05
38+00.00	17.81	3.26	454.53	27.94	39151.09	22936.45	16187.64
38+50.00	7.01	13.34	206.82	138.34	39357.91	23101.78	16256.13
39+00.00	6.27	34.96	110.69	402.47	39468.60	23504.26	15964.35
39+50.00	6.28	68.49	104.63	862.03	39573.23	24366.28	15206.95
40+00.00	3.21	125.85	79.06	1619.47	39652.29	25985.76	13666.53
40+50.00	0.64	151.02	32.08	2307.26	39684.37	28293.02	11391.35
41+00.00	6.67	83.55	60.96	1954.74	39745.33	30247.76	9497.57
41+50.00	9.84	41.20	126.95	1042.31	39872.28	31290.07	8582.21
42+00.00	13.19	16.09	191.89	477.40	40064.17	31767.47	8296.70
42+50.00	16.84	6.72	250.21	190.09	40314.38	31957.56	8356.82
43+00.00	20.50	3.89	311.20	88.41	40625.58	32045.97	8579.61
43+50.00	21.66	4.42	351.36	69.18	40976.94	32115.15	8861.79
44+00.00	22.00	4.15	363.82	71.38	41340.76	32186.53	9154.24
44+50.00	19.57	3.83	346.45	66.53	41687.21	32253.05	9434.16
45+00.00	19.07	3.82	322.06	63.76	42009.27	32316.81	9692.47
45+50.00	18.99	3.45	317.21	60.57	42326.49	32377.38	9949.11
46+00.00	20.44	2.59	328.57	50.33	42655.06	32427.71	10227.35
46+50.00	22.23	1.60	355.56	34.91	43010.62	32462.62	10548.00
47+00.00	26.18	0.28	403.46	15.65	43414.08	32478.27	10935.81
47+50.00	35.53	0.11	514.27	3.22	43928.35	32481.48	11446.87
48+00.00	46.29	0.01	681.86	0.96	44610.21	32482.45	12127.76
48+50.00	47.32	0.00	780.14	0.06	45390.35	32482.51	12907.84
49+00.00	36.90	0.06	701.84	0.46	46092.19	32482.97	13609.22
49+50.00	21.19	3.79	484.08	32.07	46576.27	32515.04	14061.23
50+00.00	5.69	19.52	224.03	194.27	46800.30	32709.31	14090.99
50+50.00	0.49	51.01	51.54	587.77	46851.84	33297.08	13554.76
51+00.00	0.00	87.29	4.12	1152.54	46855.95	34449.63	12406.33
51+50.00	0.03	125.32	0.22	1771.73	46856.18	36221.36	10634.82
52+00.00	0.00	0.00	0.21	1044.29	46856.39	37265.65	9590.74

ALEDO RD CONNECTOR - VOLUME TABLE							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
69+50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70+00.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70+50.00	0.00	19.48	0.00	162.35	0.00	162.35	-162.35
71+00.00	3.31	1.71	27.55	176.63	27.55	338.97	-311.42
71+50.00	3.57	1.83	57.34	29.55	84.89	368.52	-283.64
72+00.00	4.43	1.44	66.71	27.31	151.60	395.83	-244.24
72+50.00	5.53	1.11	82.98	21.25	234.58	417.09	-182.51
73+00.00	7.18	0.30	105.88	11.69	340.46	428.78	-88.32
73+50.00	8.21	0.02	128.21	2.68	468.67	431.46	37.22
74+00.00	7.59	0.02	131.62	0.34	600.30	431.80	168.50
74+50.00	6.81	0.02	119.99	0.35	720.29	432.15	288.15
75+00.00	3.93	1.05	89.54	8.96	809.83	441.10	368.73
75+50.00	0.14	6.62	33.92	63.95	843.75	505.06	338.69
76+00.00	0.01	17.33	1.19	199.60	844.94	704.66	140.28
76+50.00	0.00	41.13	0.06	487.15	844.99	1191.81	-346.82
77+00.00	0.01	74.93	0.06	939.08	845.05	2130.89	-1285.84
77+50.00	0.47	126.85	2.69	1660.39	847.75	3791.28	-2943.53
78+00.00	0.00	169.13	2.65	2494.04	850.40	6285.32	-5434.92
78+50.00	0.10	149.36	0.56	2708.09	850.95	8993.41	-8142.46
79+00.00	0.00	129.64	0.56	2352.15	851.51	11345.56	-10494.05
79+50.00	0.00	118.81	0.00	2070.50	851.51	13416.06	-12564.55
80+00.00	0.53	110.14	2.72	1900.77	854.22	15316.83	-14462.60

FILE NAME: S:\Projects\Tarrant\Bentley\Bentley Bridge Drive\Drawings\Sheet\Sheet 28.dwg
 PLOTTED BY: QUINTEN F. PLUMER
 PLOTTED AT: 7/23/22 10:28 AM

NO.	REVISION	BY	DATE

QDP	DESIGNED	JDW	DRAWN	LAM	CHECKED
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SCALE	DATE
HORIZ 1" = 40'	OCTOBER 2022
VERT 1" = 8'	

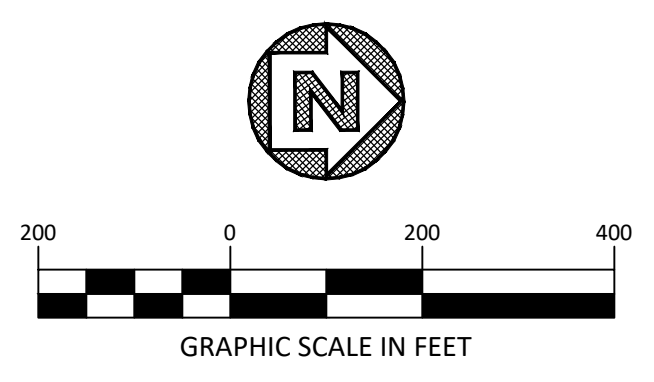
550 Bailey Avenue • Suite 400 • Fort Worth, Texas 76107
 Tel: 817.335.1121
 (TX REG. F-1114)

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 QUINTEN F. PLUMER
 P.E.# 138475 DATE: October 3, 2022

TARRANT COUNTY, TEXAS
BENTLEY BRIDGE DRIVE
CROSS SECTIONS - ALEDO ROAD
CONNECTOR STA 78+50 TO STA 80+00

DA PROJECT	2001169.033
SHEET	28

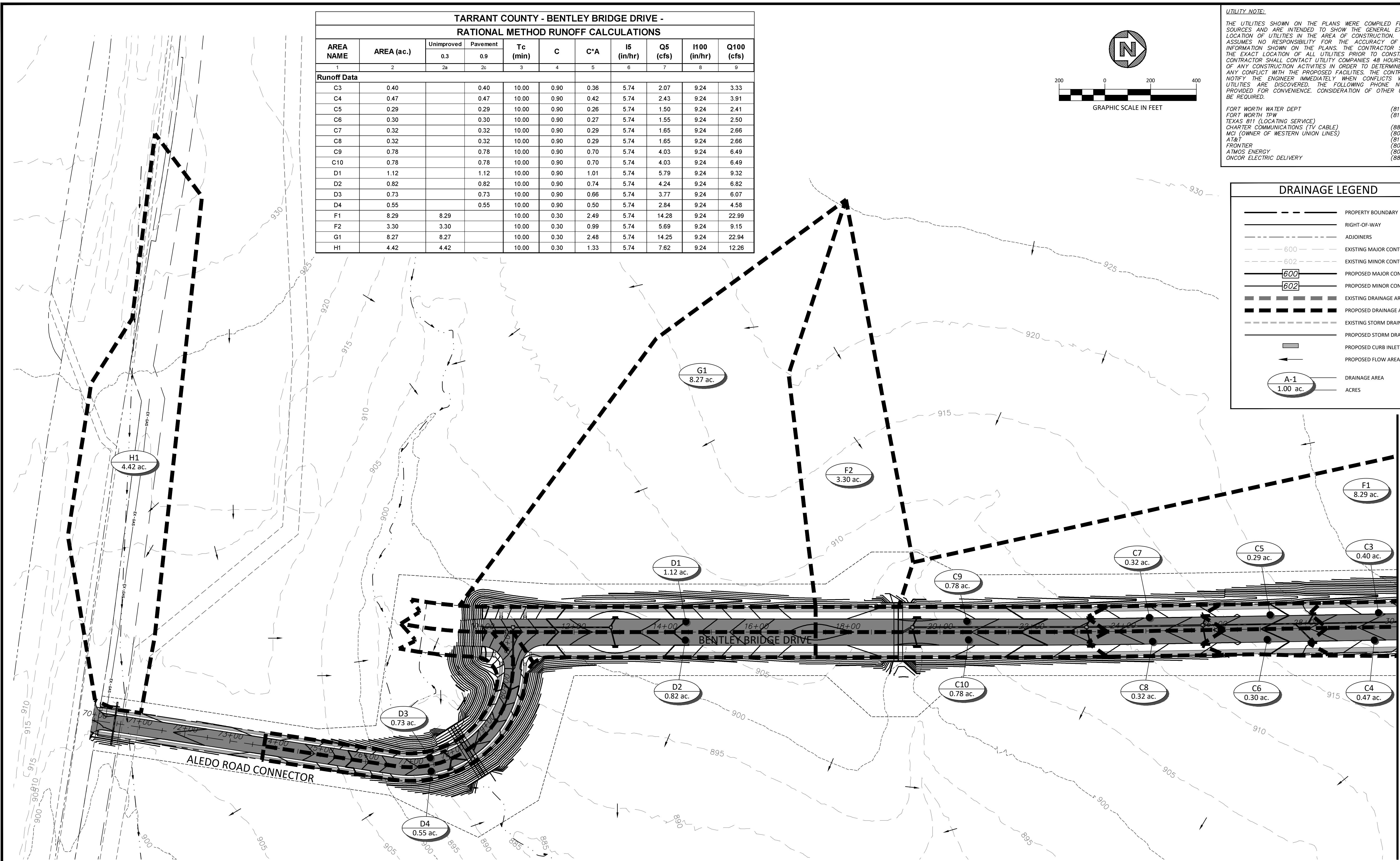
TARRANT COUNTY - BENTLEY BRIDGE DRIVE -										
RATIONAL METHOD RUNOFF CALCULATIONS										
AREA NAME	AREA (ac.)	Pavement		Tc (min)	C	C*A	I5 (in/hr)	Q5 (cfs)	I100 (in/hr)	Q100 (cfs)
		0.3	0.9							
1	2	2a	2c	3	4	5	6	7	8	9
Runoff Data										
C3	0.40		0.40	10.00	0.90	0.36	5.74	2.07	9.24	3.33
C4	0.47		0.47	10.00	0.90	0.42	5.74	2.43	9.24	3.91
C5	0.29		0.29	10.00	0.90	0.26	5.74	1.50	9.24	2.41
C6	0.30		0.30	10.00	0.90	0.27	5.74	1.55	9.24	2.50
C7	0.32		0.32	10.00	0.90	0.29	5.74	1.65	9.24	2.66
C8	0.32		0.32	10.00	0.90	0.29	5.74	1.65	9.24	2.66
C9	0.78		0.78	10.00	0.90	0.70	5.74	4.03	9.24	6.49
C10	0.78		0.78	10.00	0.90	0.70	5.74	4.03	9.24	6.49
D1	1.12		1.12	10.00	0.90	1.01	5.74	5.79	9.24	9.32
D2	0.82		0.82	10.00	0.90	0.74	5.74	4.24	9.24	6.82
D3	0.73		0.73	10.00	0.90	0.66	5.74	3.77	9.24	6.07
D4	0.55		0.55	10.00	0.90	0.50	5.74	2.84	9.24	4.58
F1	8.29	8.29		10.00	0.30	2.49	5.74	14.28	9.24	22.99
F2	3.30	3.30		10.00	0.30	0.99	5.74	5.69	9.24	9.15
G1	8.27	8.27		10.00	0.30	2.48	5.74	14.25	9.24	22.94
H1	4.42	4.42		10.00	0.30	1.33	5.74	7.62	9.24	12.26



UTILITY NOTE:
 THE UTILITIES SHOWN ON THE PLANS WERE COMPILED FROM VARIOUS SOURCES AND ARE INTENDED TO SHOW THE GENERAL EXISTENCE AND LOCATION OF UTILITIES IN THE AREA OF CONSTRUCTION. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE UTILITY INFORMATION SHOWN ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT UTILITY COMPANIES 48 HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITIES IN ORDER TO DETERMINE IF THERE IS ANY CONFLICT WITH THE PROPOSED FACILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICTS WITH EXISTING UTILITIES ARE DISCOVERED. THE FOLLOWING PHONE NUMBERS ARE PROVIDED FOR CONVENIENCE. CONSIDERATION OF OTHER UTILITIES MAY BE REQUIRED.

FORT WORTH WATER DEPT (817) 392-8296
 FORT WORTH TPW (817) 392-8100
 TEXAS 811 (LOCATING SERVICE) 811
 CHARTER COMMUNICATIONS (TV CABLE) (888) 438-2427
 MCI (OWNER OF WESTERN UNION LINES) (800) 624-9675
 AT&T (817) 338-6202
 FRONTIER (800) 921-8102
 ATMOS ENERGY (800) 817-8090
 ONCOR ELECTRIC DELIVERY (888) 313-6862

DRAINAGE LEGEND	
	PROPERTY BOUNDARY
	RIGHT-OF-WAY
	ADJOINERS
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	EXISTING DRAINAGE AREA
	PROPOSED DRAINAGE AREA
	EXISTING STORM DRAIN
	PROPOSED STORM DRAIN
	PROPOSED CURB INLET
	PROPOSED FLOW AREA
	DRAINAGE AREA
	ACRES



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 PLOTTED BY: Quinten D. Plumer
 PLOTTED DATE: 10/03/2022
 PLOTTED TIME: 10:06:10 AM

NO.	REVISION	BY	DATE

QDP	DESIGNED
SAG	DRAWN
JDW	CHECKED



SCALE	DATE
HORIZ 1" = 400'	OCTOBER 2022
VERT N/A	

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 QUINTEN D. PLUMER
 P.E.# 138475 DATE: October 3, 2022

TARRANT COUNTY, TEXAS	DA PROJECT 2001169.033
BENTLEY BRIDGE DRIVE	SHEET
DRAINAGE AREA MAP SHEET 1 OF 2	29

