PROJECT ID:
WITH:

COUNTY: **MARATHON**

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS =

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

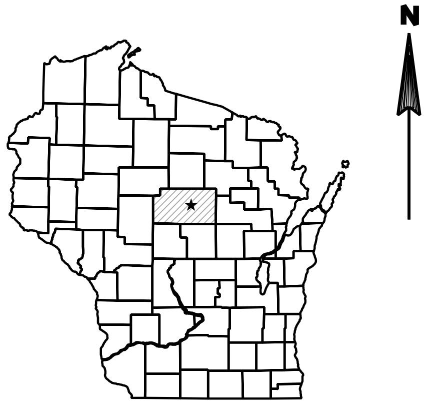
HILLTOP AVENUE - CTH U

28TH AVENUE
MARATHON COUNTY

STATE PROJECT NUMBER

70% PLAN
SUBMITTAL DATE 2/27/09

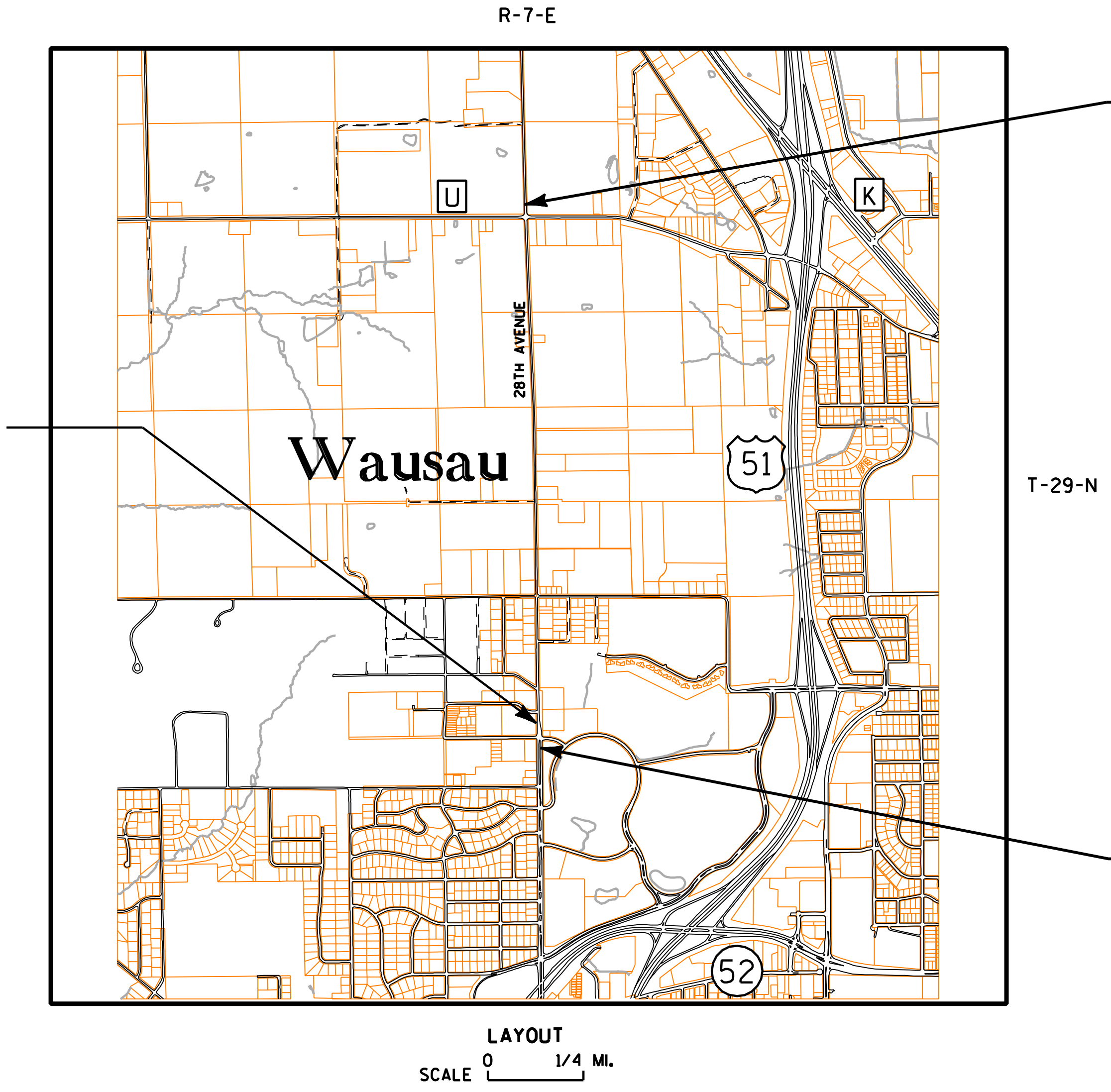
STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT



DESIGN DESIGNATION

A.D.T.	(2019)	=	4,700
A.D.T.	(2039)	=	5,900
D.H.V.		=	---
D.D.	(2039)	=	59/41
T.	(2039)	=	3.3%
DESIGN SPEED		=	40 MPH (NOTE: VERTICAL PROFILE MEETS 35 MPH FROM HILLTOP TO MADONNA.)
ESALS		=	248,200

STRUCTURE (RETAINING WALL)



END PROJECT
STA 789+50.00
Y = 212845.40
X = 270440.19

BEGIN PROJECT
STA 703+00.00
Y = 204803.20
X = 270643.20

TOTAL NET LENGTH OF CENTERLINE = 1.638 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), MARATHON COUNTY.

CONVENTIONAL SYMBOLS

PLAN
- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS — CAUTION
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE
- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) — ROCK
- SPECIAL DITCH — LABEL
- GRADE ELEVATION — 95.36
- CULVERT (Profile View)

UTILITIES

ELECTRIC	E
FIBER OPTIC	FO
GAS	G
SANITARY SEWER	SAN
STORM SEWER	SS
TELEPHONE	T
WATER	W
UTILITY PEDESTAL	⌑
POWER POLE	⏚
TELEPHONE POLE	Ø

ACCEPTED FOR
MARATHON COUNTY

DATE ______ COUNTY COMMISSIONER

STORM SEWER PLANS PREPARED BY:
BECHER-HOPPE ASSOCIATES, INC.

Becher Hoppe
Engineers and Architects

DATE: ______

ORIGINAL PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Planners
Environmental Scientists
3433 Oakwood Hills Parkway
Eau Claire, WI 54702

DATE: ______

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

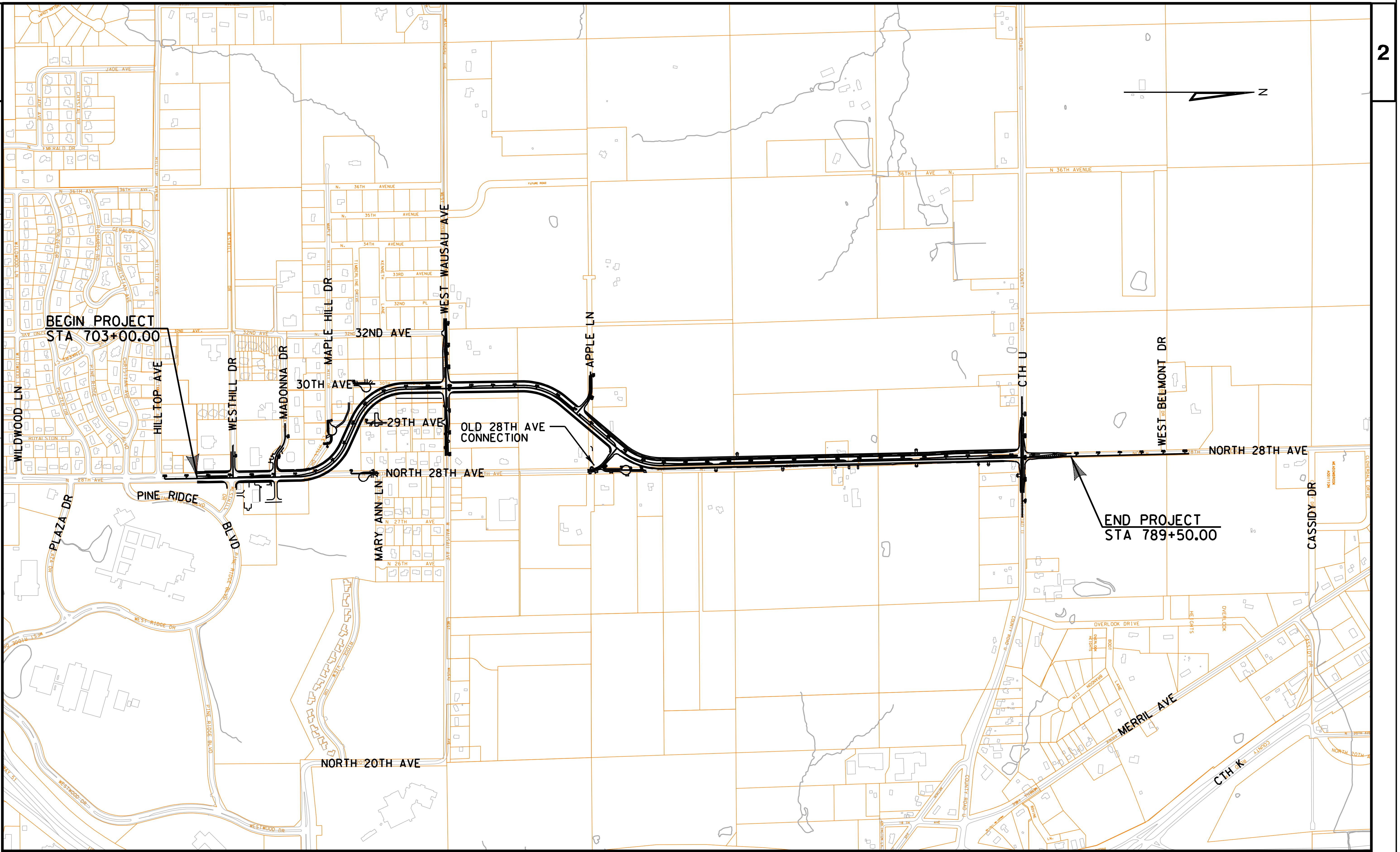
Surveyor	BECHER-HOPPE
Designer	AYRES ASSOCIATES
Project Manager	
District Examiner	
District Supervisor	
C.O. Examiner	

APPROVED FOR DISTRICT OFFICE

DATE: ______ ______ (Signature)

E

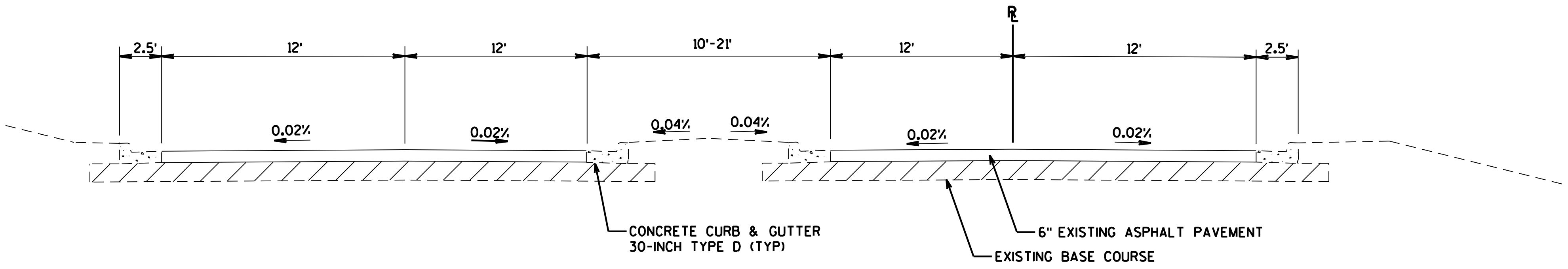
2



2

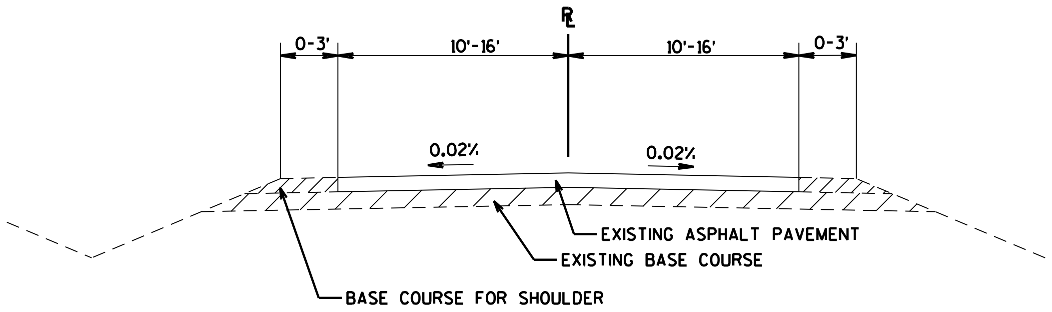
PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	PROJECT OVERVIEW	SHEET	E

FILE NAME : t:\410537\dgn\020201_po.DGN PLOT DATE : 2/25/2009 PLOT BY : AYRES-EC PLOT NAME : PLOT SCALE : 1:800



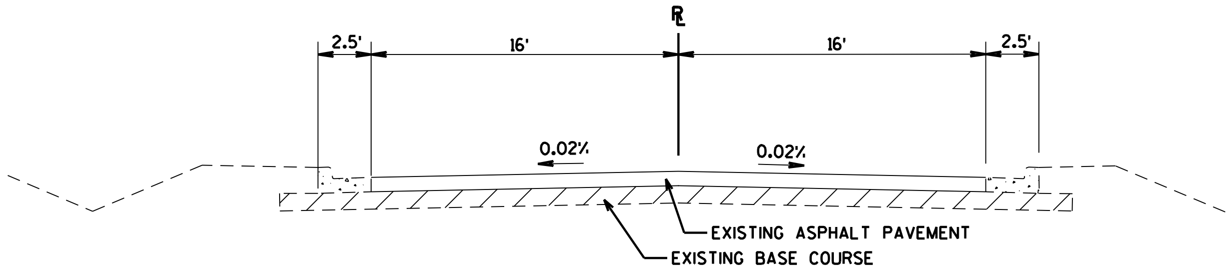
EXISTING TYPICAL SECTION

28TH AVENUE (URBAN)



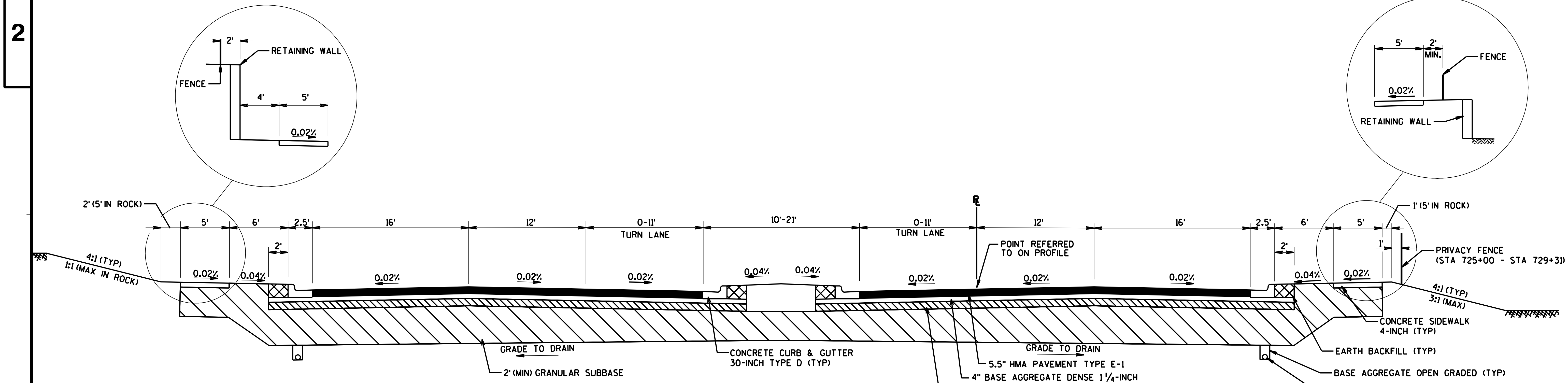
EXISTING TYPICAL SECTION

28TH AVENUE (RURAL) - 6" EX. ASPHALT PAVEMENT
MADONNA DRIVE
WEST WAUSAU AVENUE
APPLE LANE
CTH U



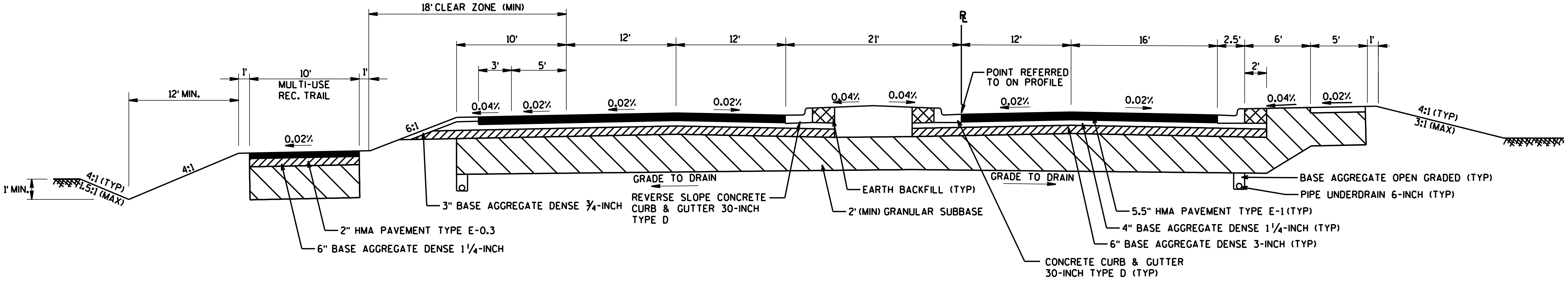
EXISTING TYPICAL SECTION

WESTHILL DRIVE



TYPICAL SECTION - 28TH AVENUE

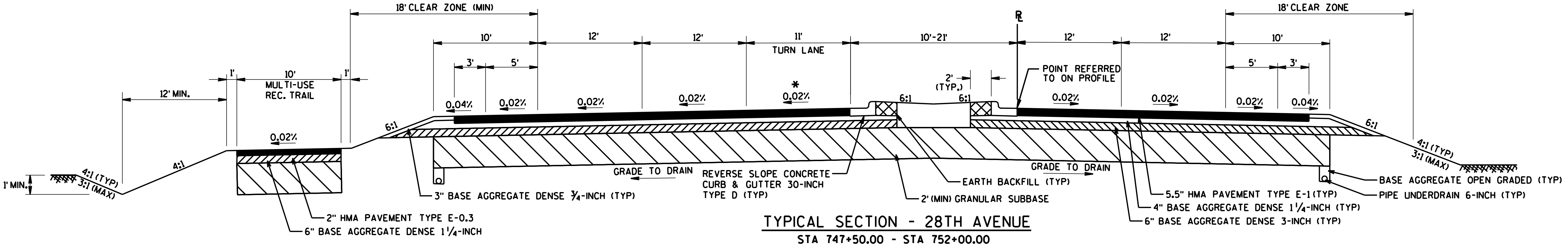
STA 703+00.00 - STA 742+50.00



TYPICAL SECTION - 28TH AVENUE

STA 742+50.00 - STA 747+50.00

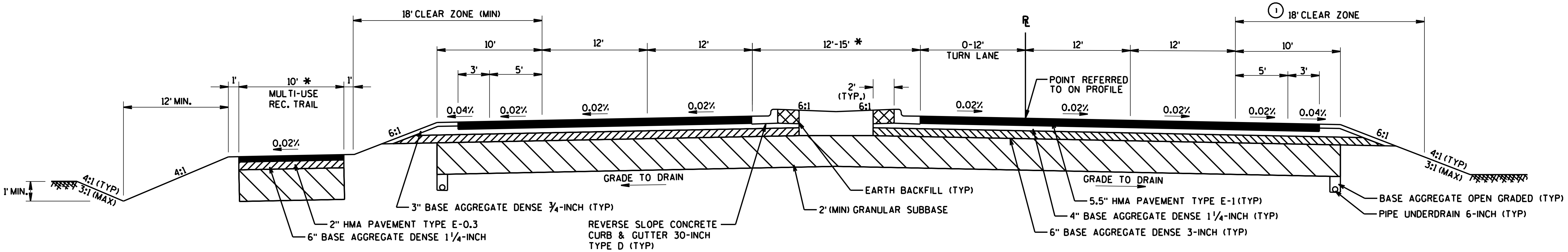
PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	TYPICAL SECTIONS	SHEET	E



TYPICAL SECTION - 28TH AVENUE

STA 747+50.00 - STA 752+00.00

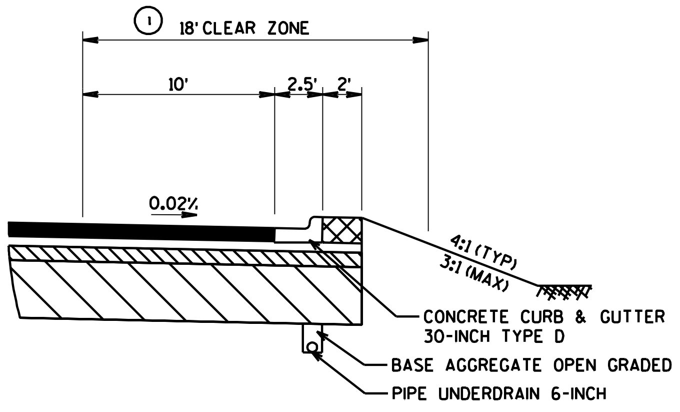
* NOTE: NORMAL CROWN FROM
STA 747+50 - STA 747+74.18



TYPICAL SECTION - 28TH AVENUE

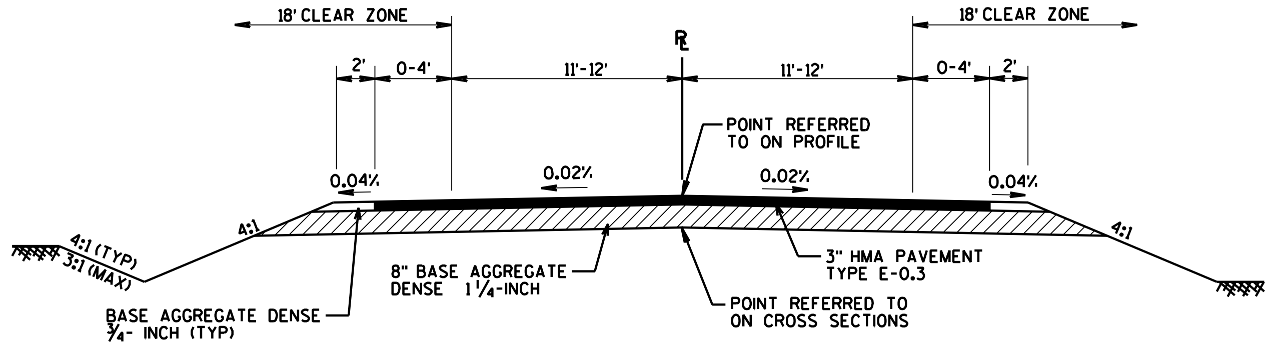
STA 752+00.00 - STA 789+50.00

* NOTE: NO RAISED MEDIAN OR MILTI-USE
REC. TRAIL STA 785+00 - STA 789+50
(SEE INTERSECTION DETAIL)



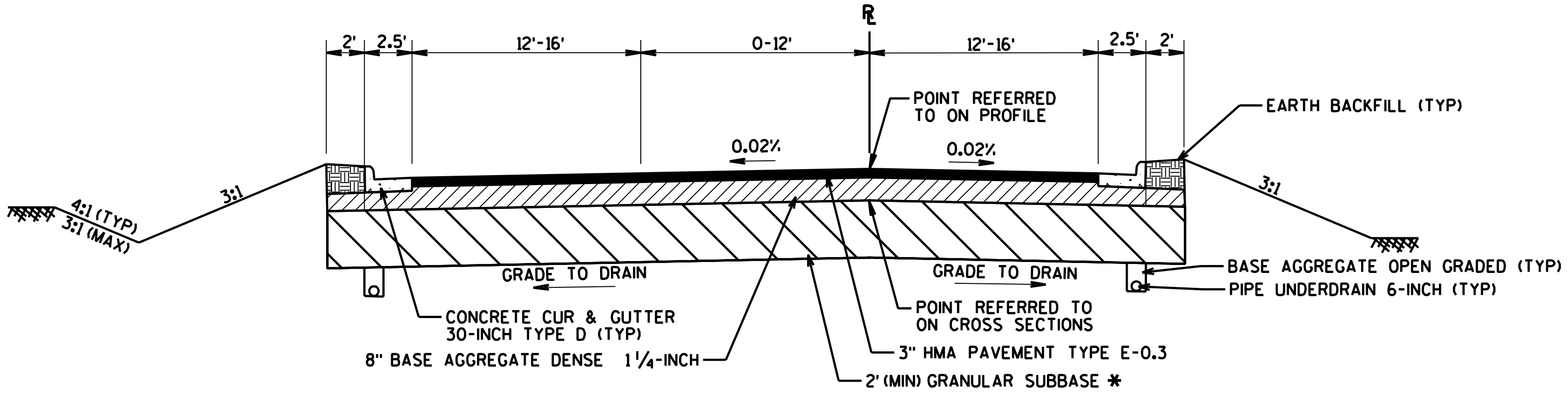
STA 767+83 - STA 773+00

PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	TYPICAL SECTIONS	SHEET	E



TYPICAL SECTION - SIDEROADS

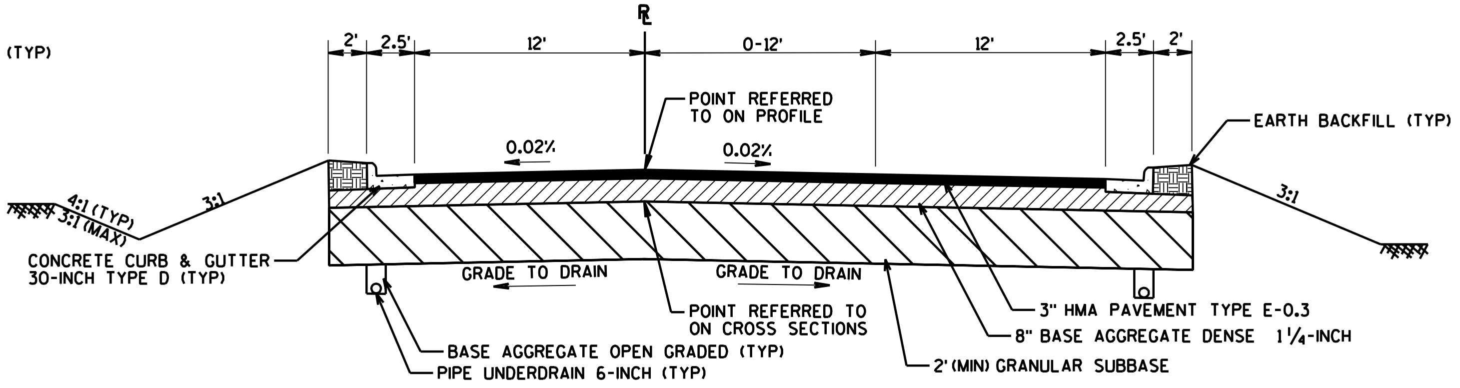
MADONNA DRIVE
APPLE LANE
OLD 28TH AVENUE CONNECTION



TYPICAL SECTION - SIDEROADS

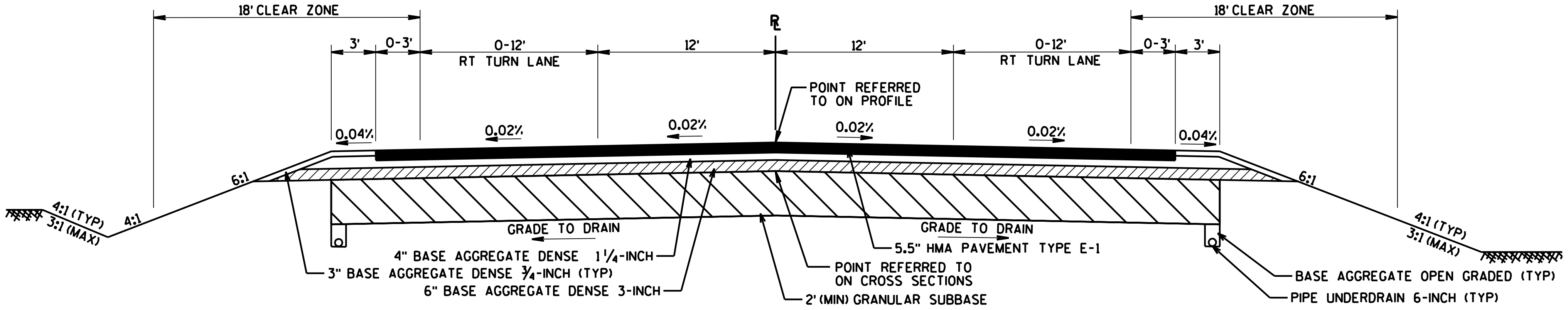
STA 300+00.00 - STA 306+18.22 (WEST WAUSAU AVE)
WESTHILL DRIVE

* NOTE: DO NOT USE 2' GRANULAR SUBBASE FOR WESTHILL DRIVE



TYPICAL SECTION - SIDEROADS

STA 293+53.95 - STA 300+00.00 (WEST WAUSAU AVE)

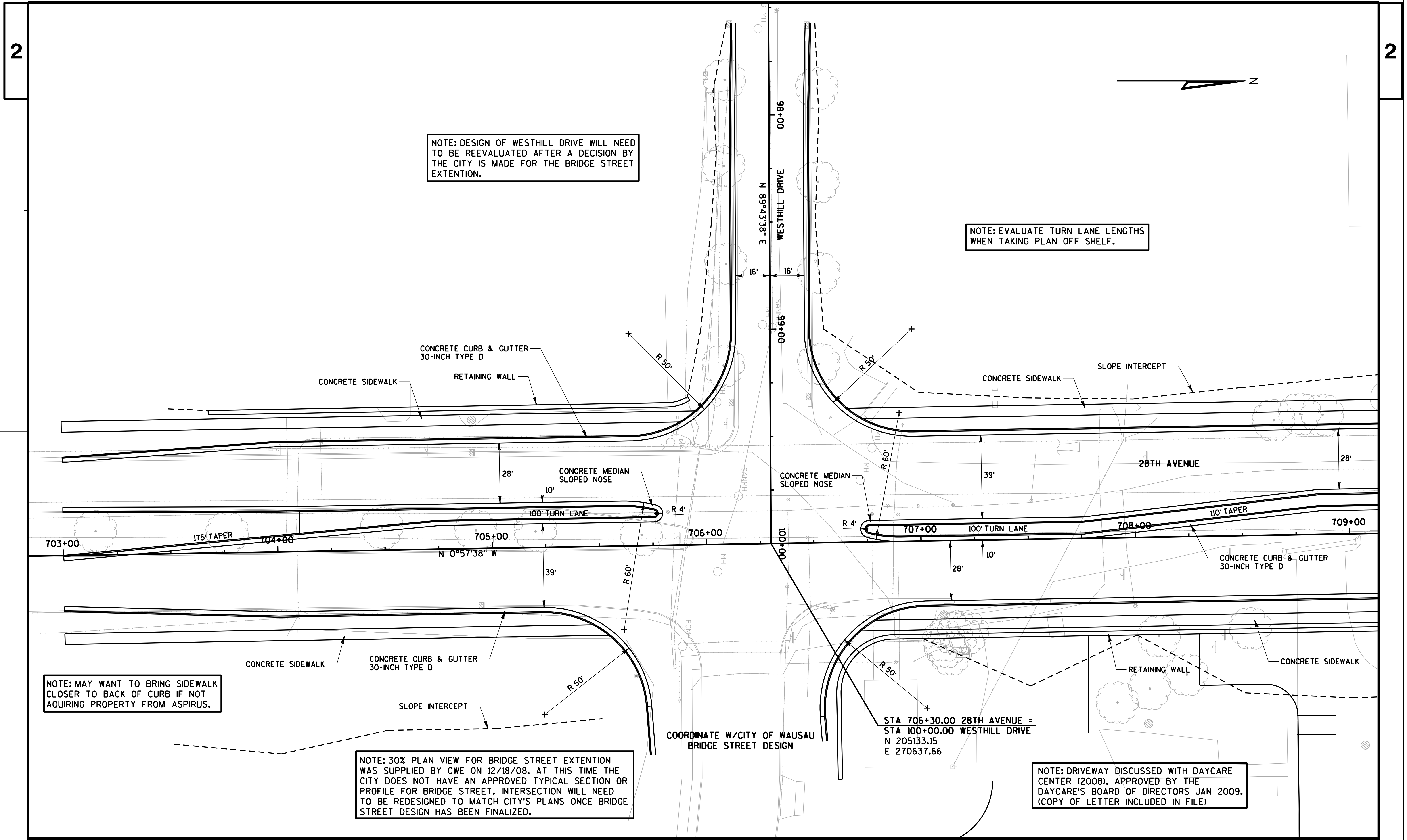


TYPICAL SECTION - SIDEROADS

CTH U

PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	TYPICAL SECTIONS	SHEET	E

FILE NAME : T:\410537\DGN\020301_ts.dgn
PLOT DATE : 2/26/2009
PLOT BY : AYRES-EC
PLOT NAME :
PLOT SCALE : 1:200



NOTE: DESIGN OF WESTHILL DRIVE WILL NEED TO BE REEVALUATED AFTER A DECISION BY THE CITY IS MADE FOR THE BRIDGE STREET EXTENTION.

NOTE: EVALUATE TURN LANE LENGTHS WHEN TAKING PLAN OFF SHELF.

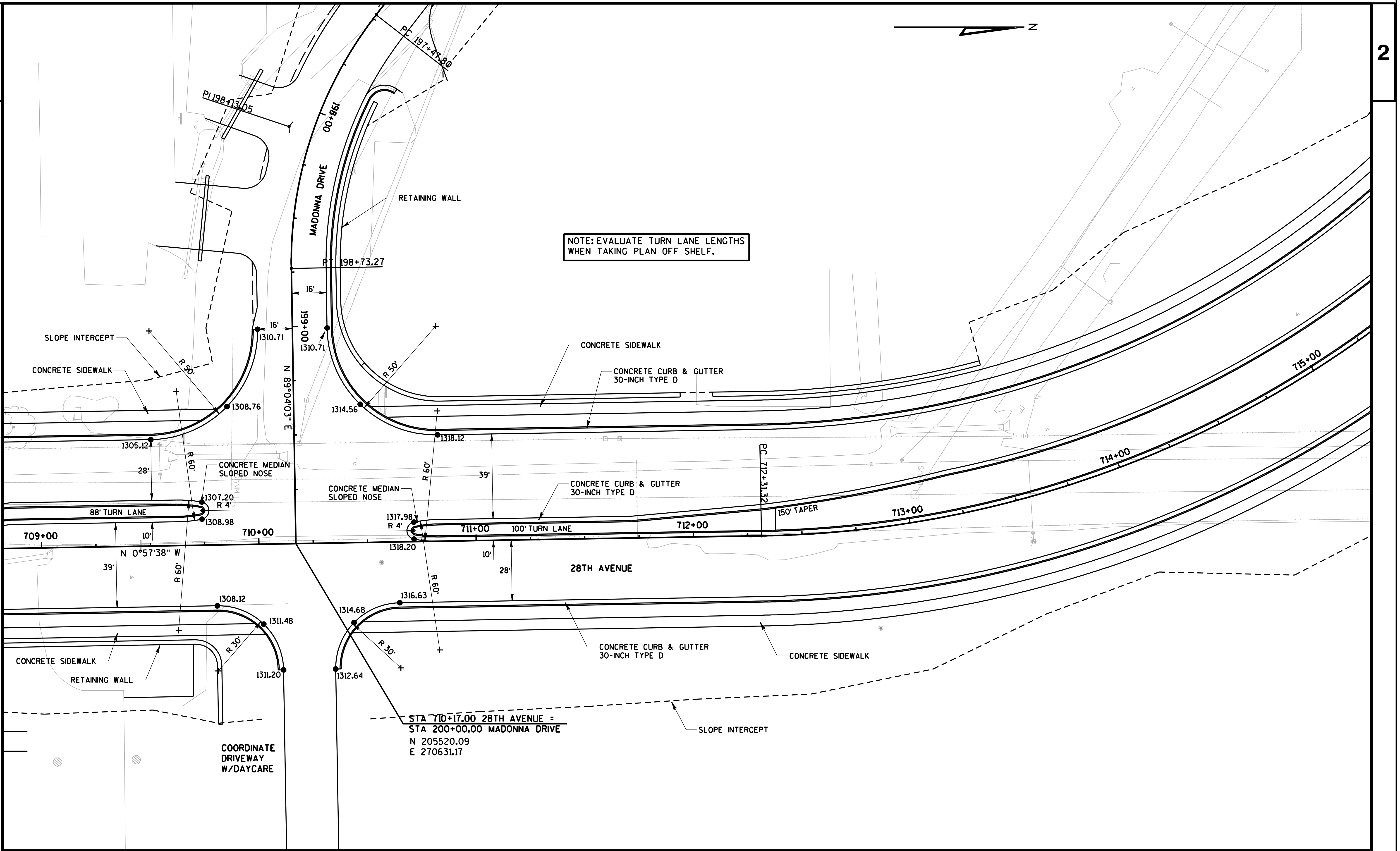
NOTE: MAY WANT TO BRING SIDEWALK CLOSER TO BACK OF CURB IF NOT AQUIRING PROPERTY FROM ASPIRUS.

NOTE: 30% PLAN VIEW FOR BRIDGE STREET EXTENTION WAS SUPPLIED BY CWE ON 12/18/08. AT THIS TIME THE CITY DOES NOT HAVE AN APPROVED TYPICAL SECTION OR PROFILE FOR BRIDGE STREET. INTERSECTION WILL NEED TO BE REDESIGNED TO MATCH CITY'S PLANS ONCE BRIDGE STREET DESIGN HAS BEEN FINALIZED.

NOTE: DRIVEWAY DISCUSSED WITH DAYCARE CENTER (2008). APPROVED BY THE DAYCARE'S BOARD OF DIRECTORS JAN 2009. (COPY OF LETTER INCLUDED IN FILE)

PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	INTERSECTION DETAIL - WESTHILL DR	SHEET	E

FILE NAME : t:\410537\dgn\021101_id.dgn PLOT DATE : 2/25/2009 PLOT BY : AYRES-EC PLOT NAME : PLOT SCALE : 1:40

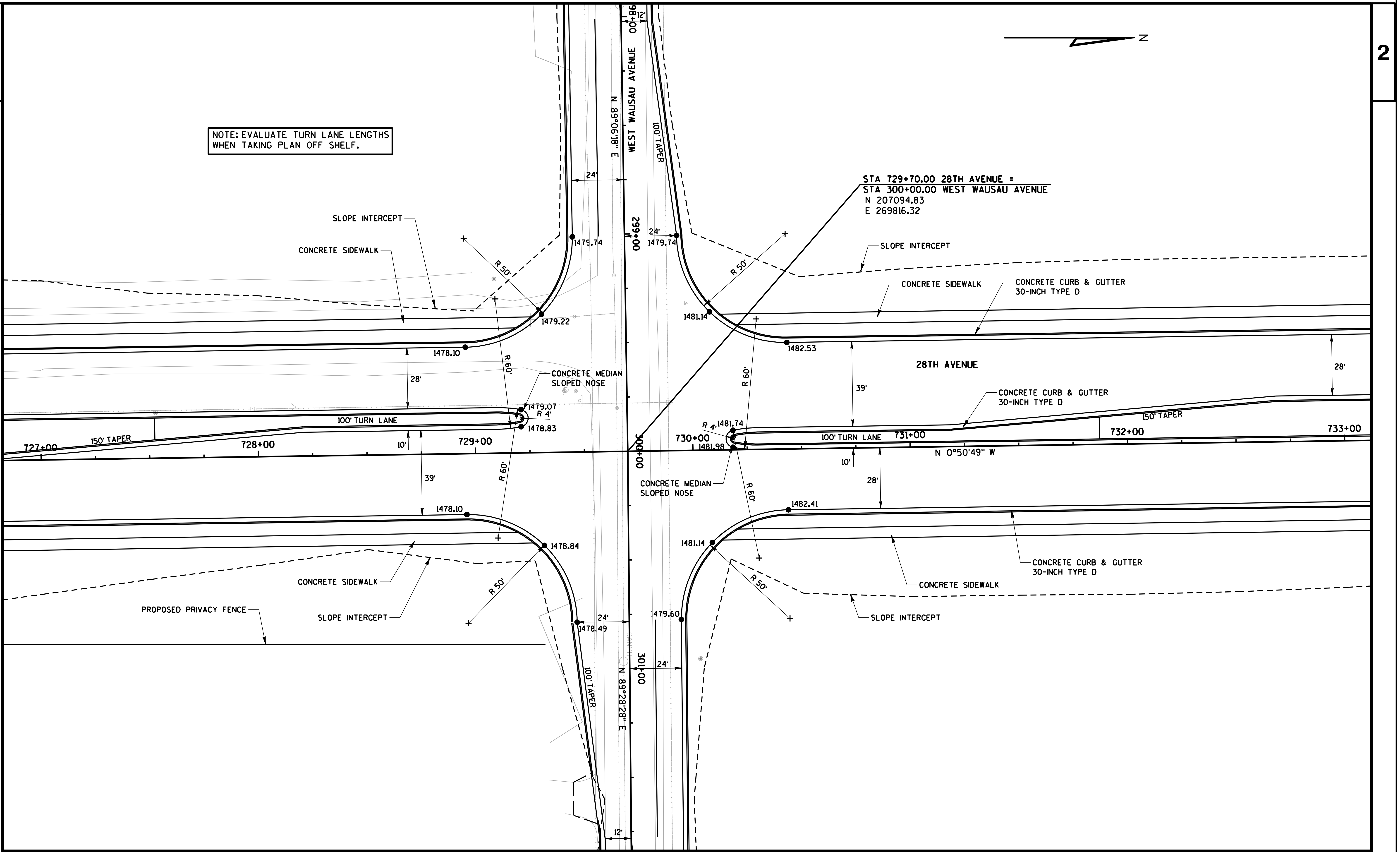


NOTE: EVALUATE TURN LANE LENGTHS
WHEN TAKING PLAN OFF SHELF.

STA 710+17.00 28TH AVENUE =
STA 200+00.00 MADONNA DRIVE
N 205520.09
E 270631.17

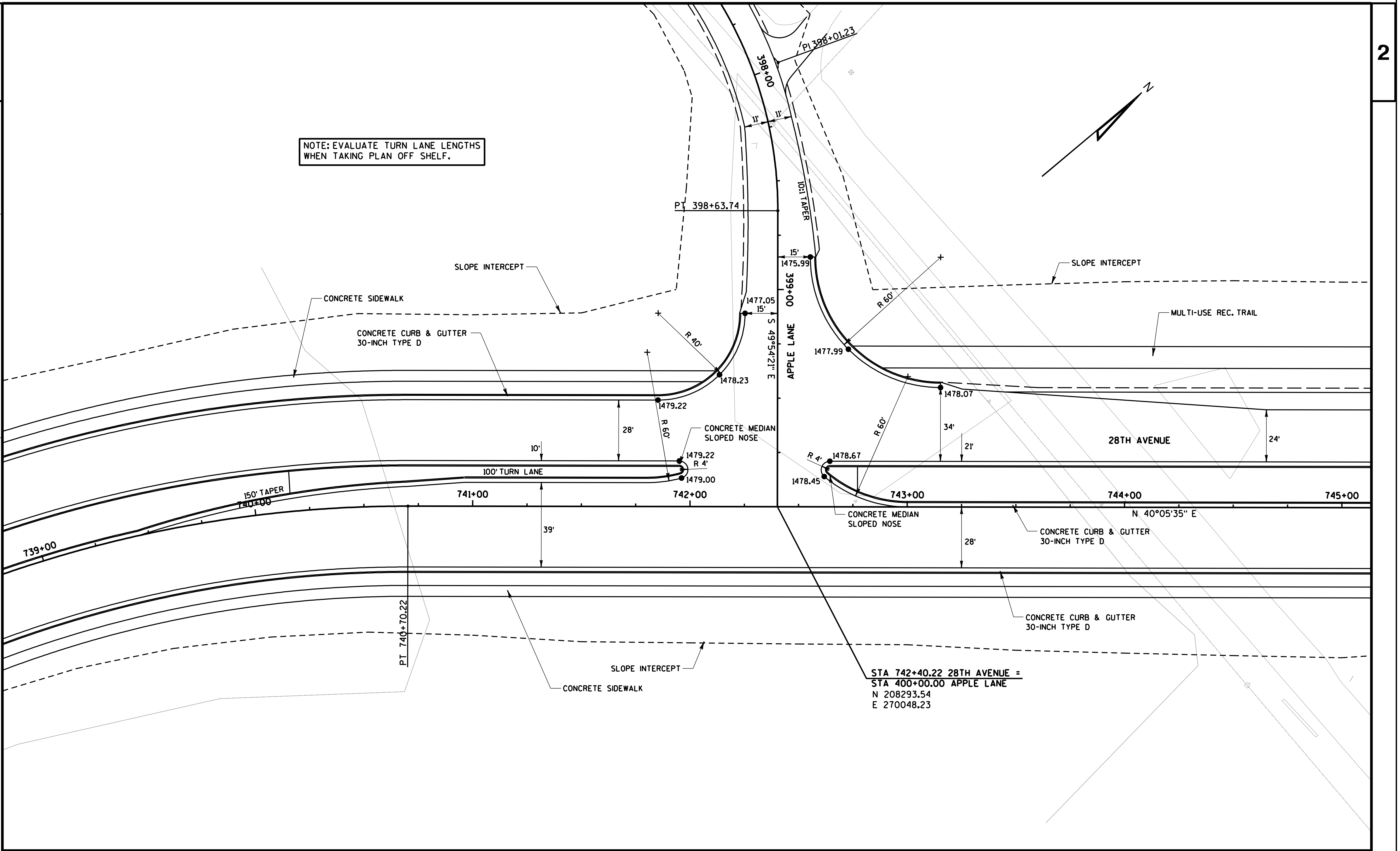
COORDINATE
DRIVEWAY
W/DAYCARE

PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	INTERSECTION DETAIL - MADONNA DR	SHEET	E



PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	INTERSECTION DETAIL - WEST WAUSAU AVE	SHEET	E

2



2

PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	INTERSECTION DETAIL - APPLE LANE	SHEET	E

FILE NAME : t:\410537\dgn\021107_id.dgn

PLOT DATE : 2/25/2009

PLOT BY : AYRES-EC

PLOT NAME :

PLOT SCALE : 1:40

2

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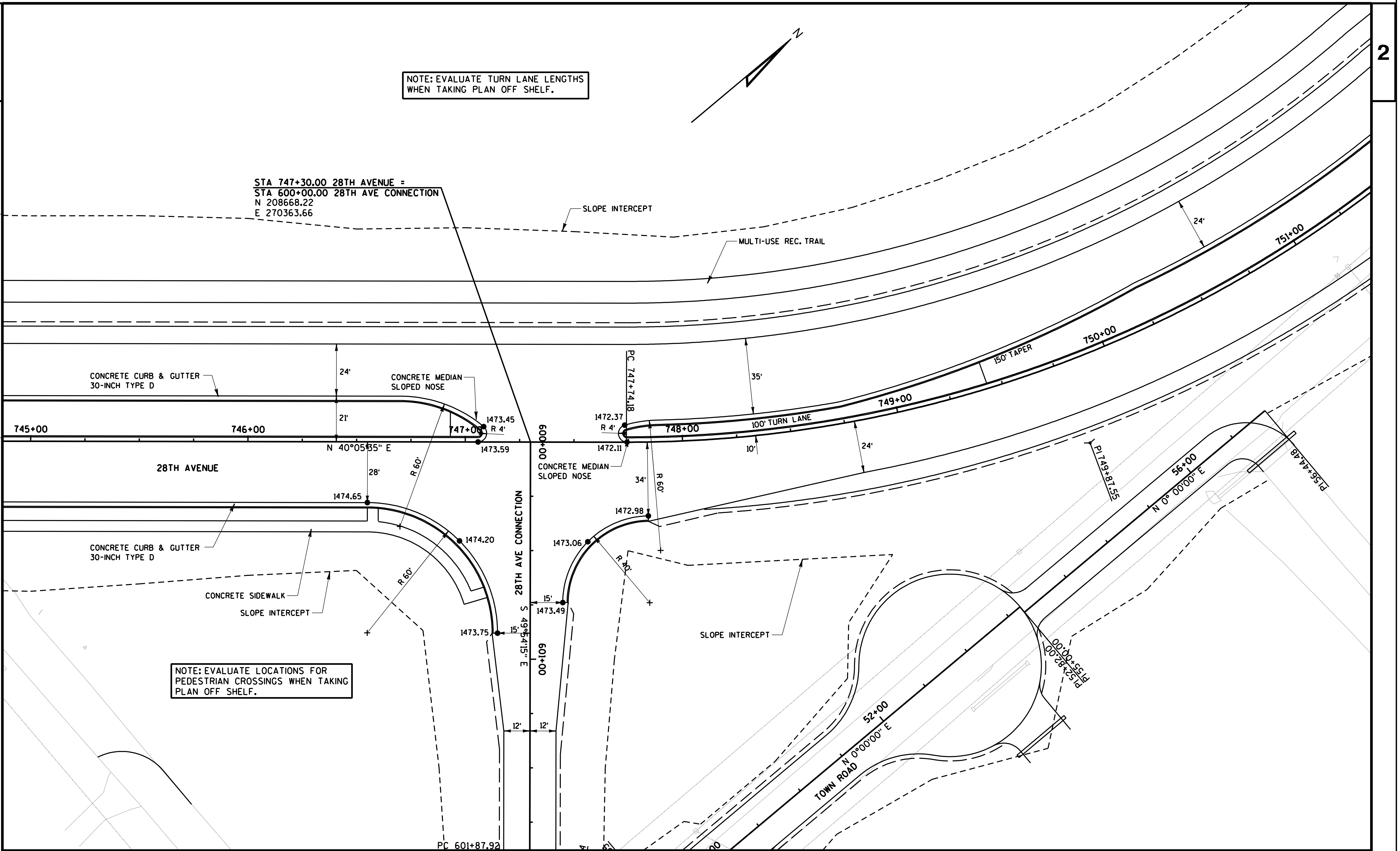


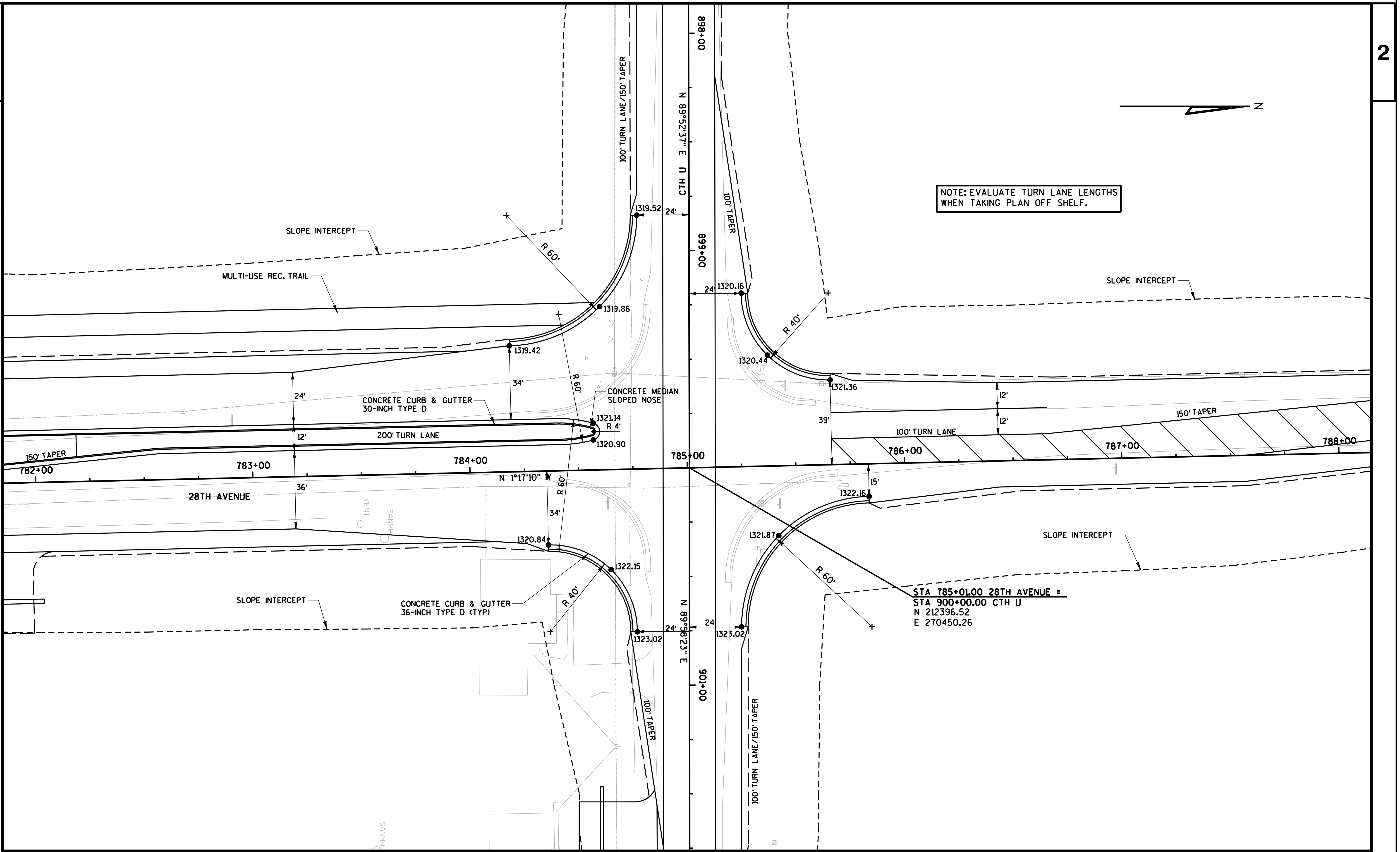
NOTE: EVALUATE TURN LANE LENGTHS
WHEN TAKING PLAN OFF SHELF.

NOTE: EVALUATE LOCATIONS FOR
PEDESTRIAN CROSSINGS WHEN TAKING
PLAN OFF SHELF.

PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	INTERSECTION DETAIL - OLD 28TH AVE CONNECTION	SHEET	E

FILE NAME : t:\410537\dgn\021108_iD.dgn   PLOT DATE : 2/25/2009   PLOT BY : AYRES-EC   PLOT NAME :   PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42



PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	INTERSECTION DETAIL - CTH U	SHEET	E

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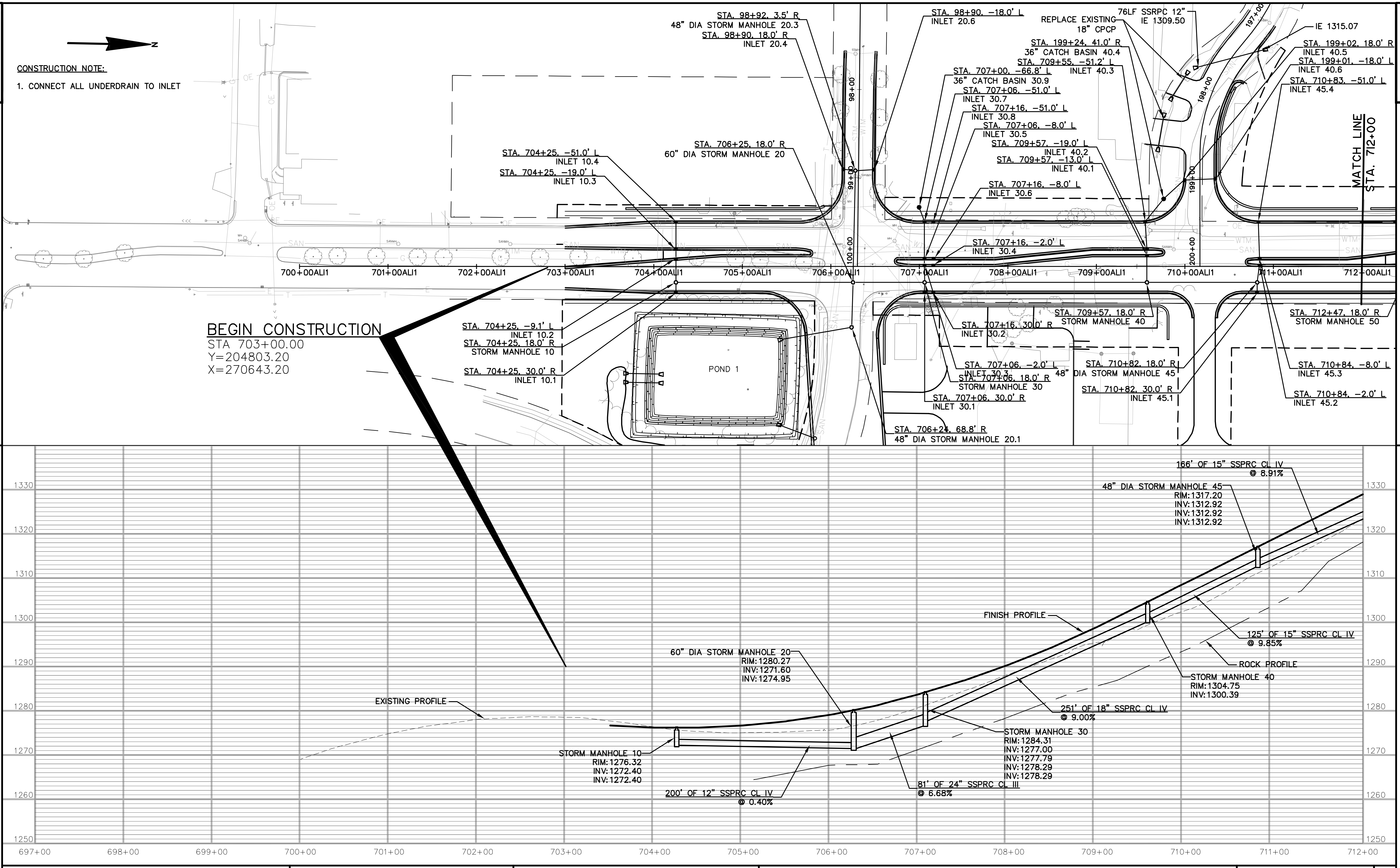
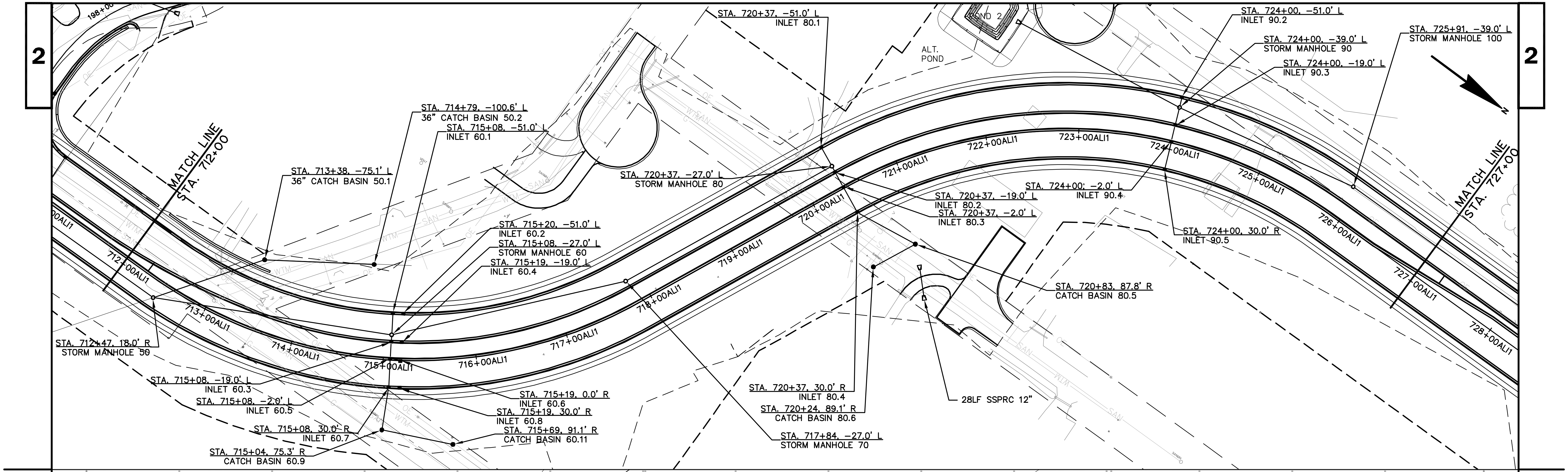


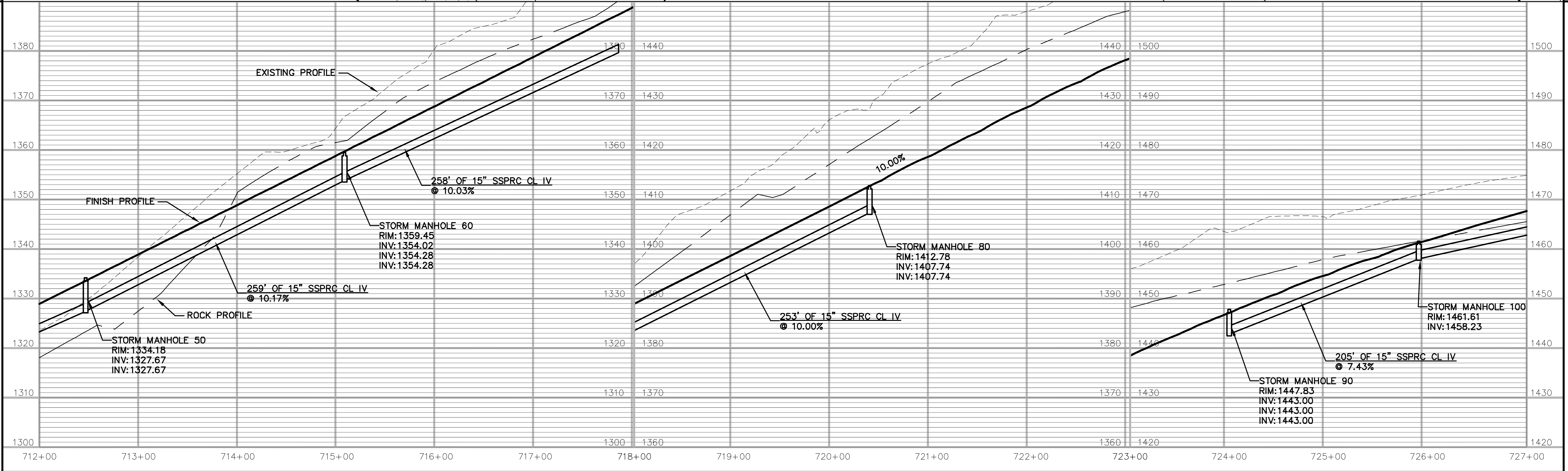
CONSTRUCTION NOTE:

1. CONNECT ALL UNDERDRAIN TO INLET

PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	STORM SEWER	SHEET	E

FILE NAME : P:\2008\2008.064 - Marathon Cty Hwy Dept - 28th Ave\Civil 3D\Plans\080101-04_SS.dwg PLOT DATE : 2/23/2009 PLOT BY : BHA PLOT NAME : 080101 PLOT SCALE : SEE SHEET

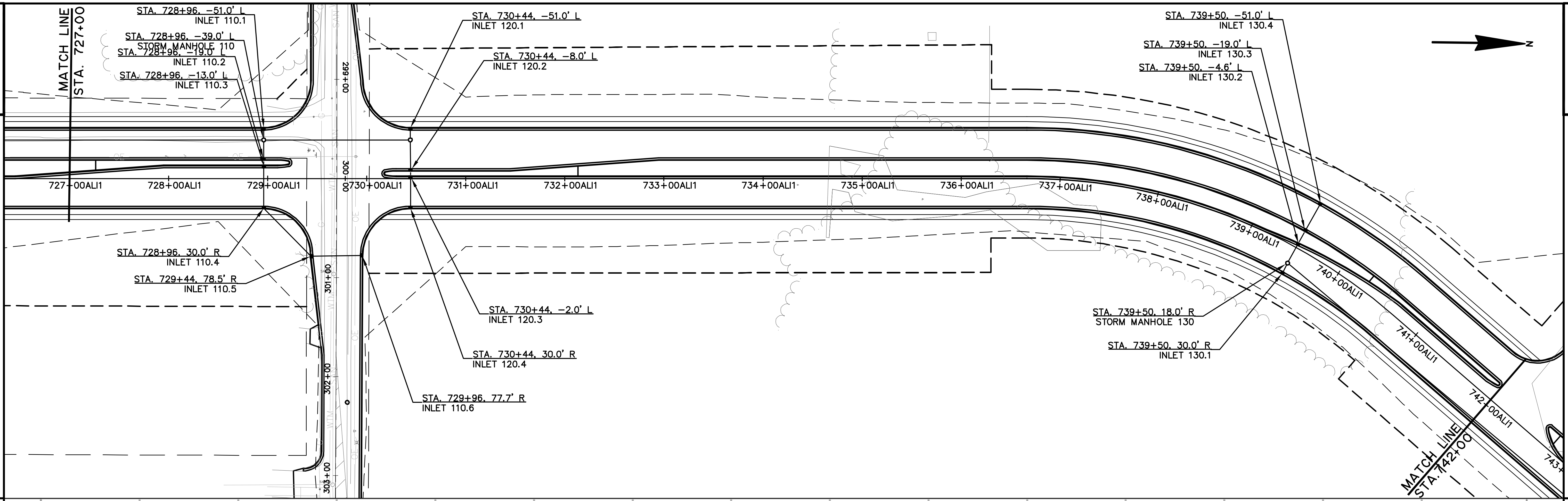




PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	STORM SEWER	SHEET	E

FILE NAME : P:\2008\2008.064 - Marathon Cty Hwy Dept - 28th Ave\Civil 3D\Plans\080101-04_SS.dwg
PLOT DATE : 2/24/2009
PLOT BY : BHA
PLOT NAME : 080102
PLOT SCALE : SEE SHEET

2



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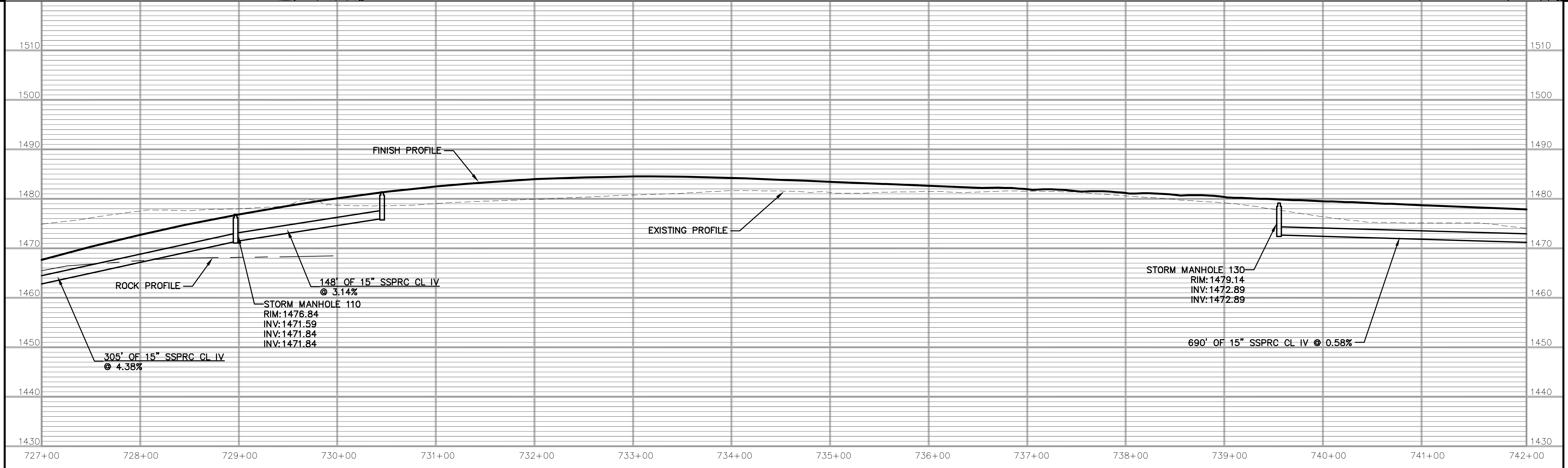
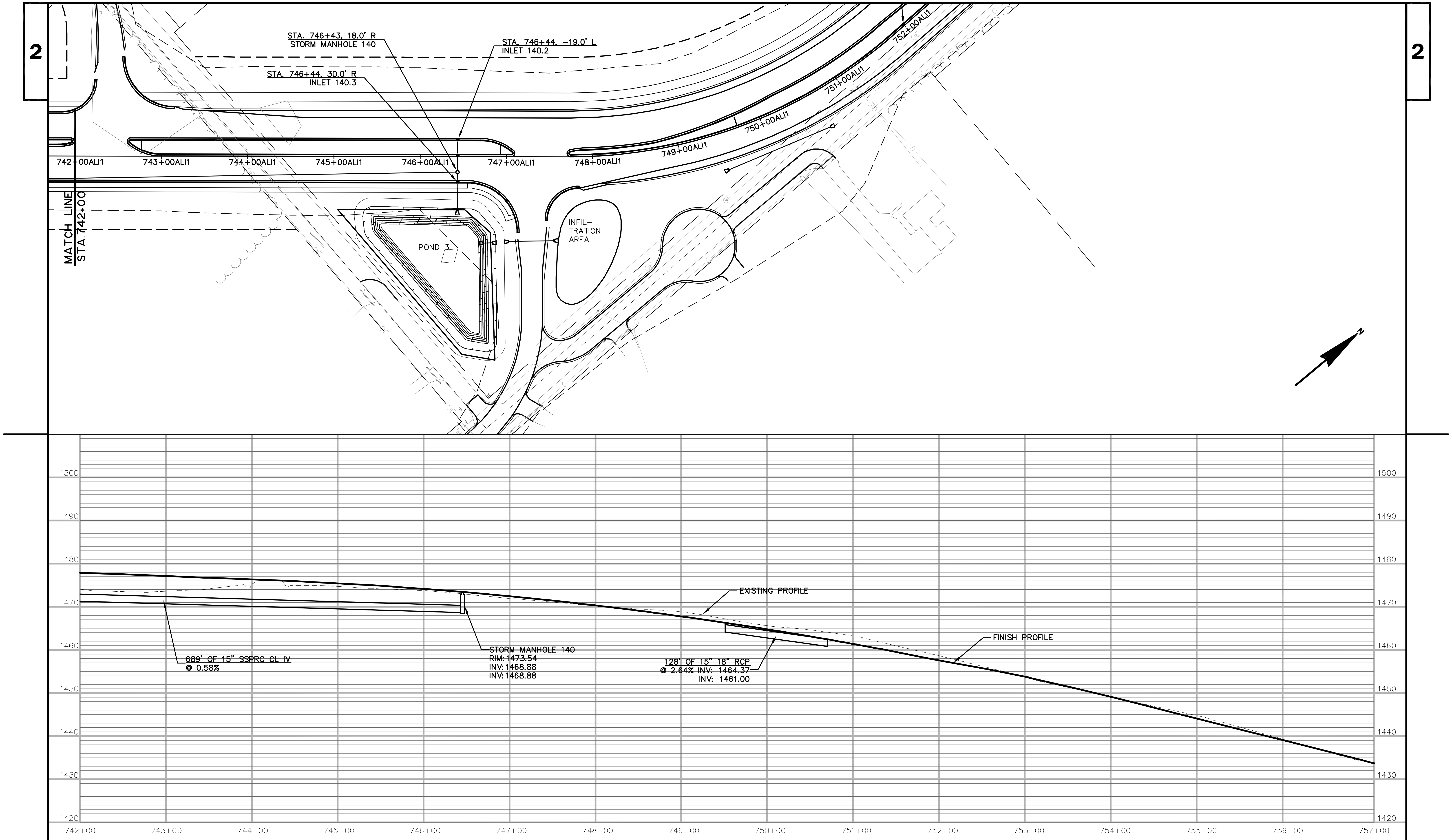


PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	STORM SEWER	SHEET	E



PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	STORM SEWER	SHEET	E

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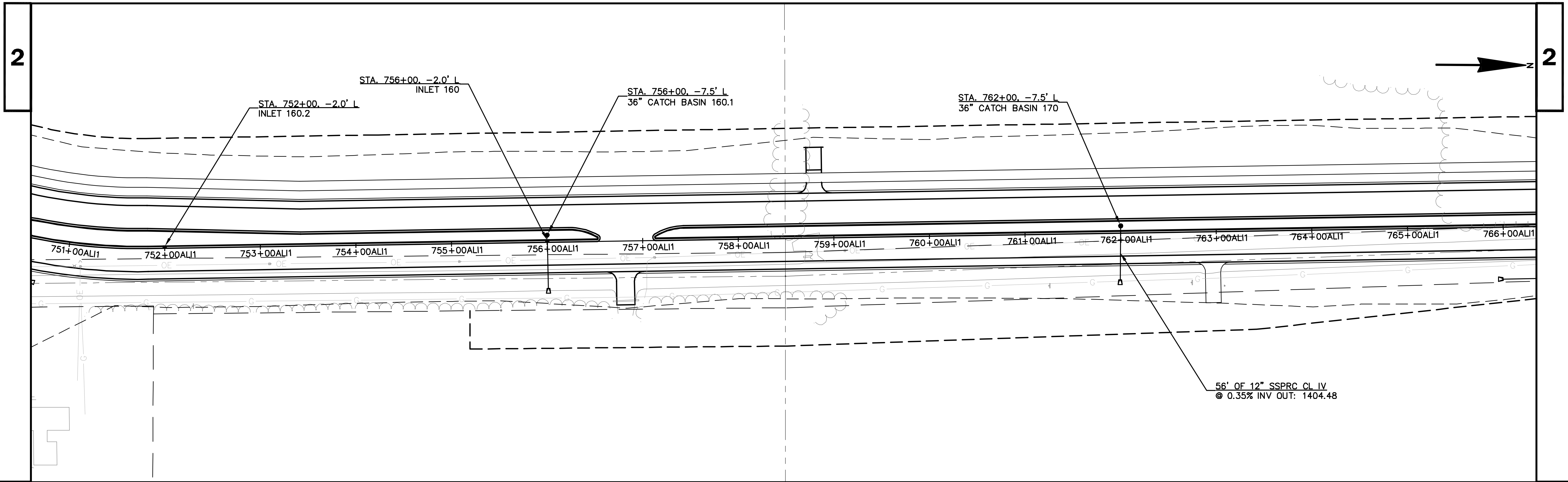
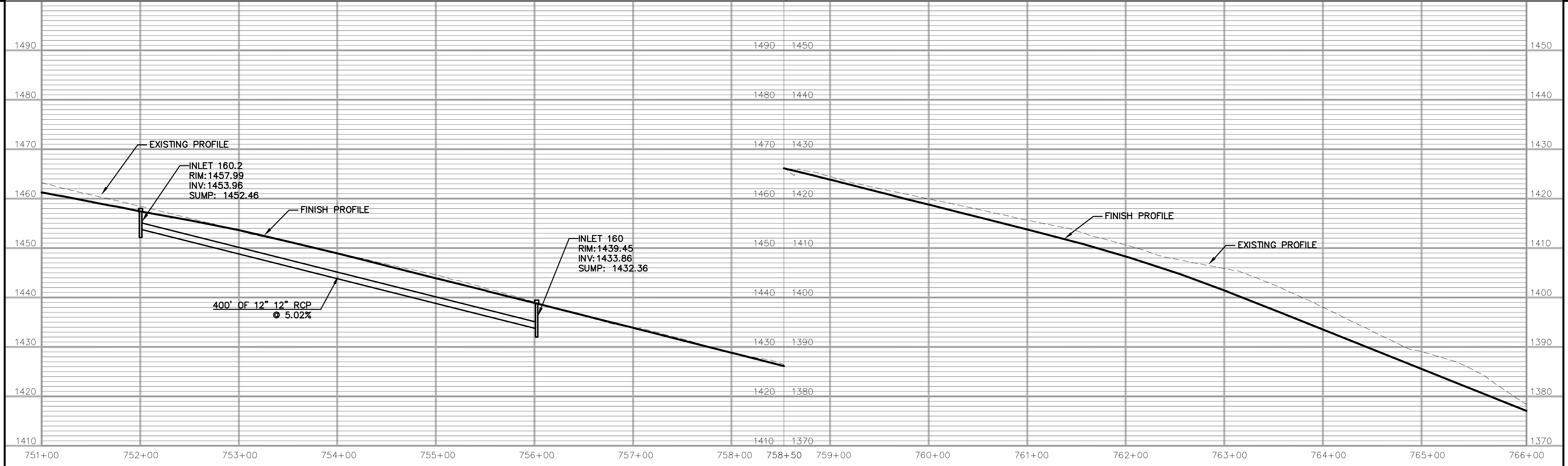
PLOT DATE : 2/24/2009
PLOT BY : BHA
PLOT NAME : 080104
PLOT SCALE : SEE SHEET





PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	STORM SEWER	SHEET	E

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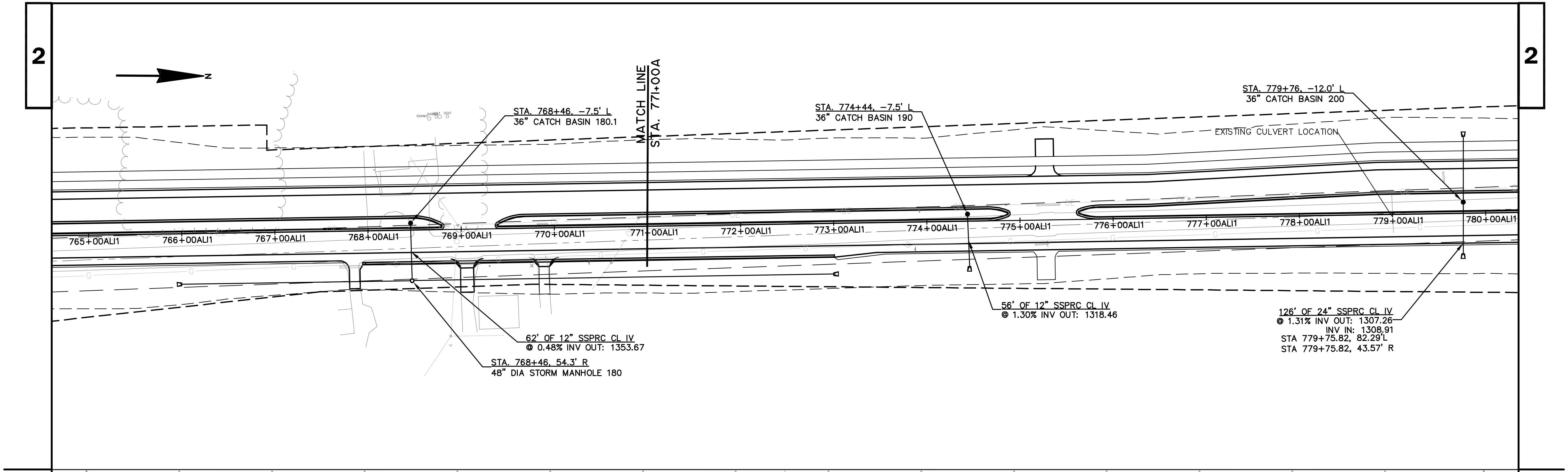
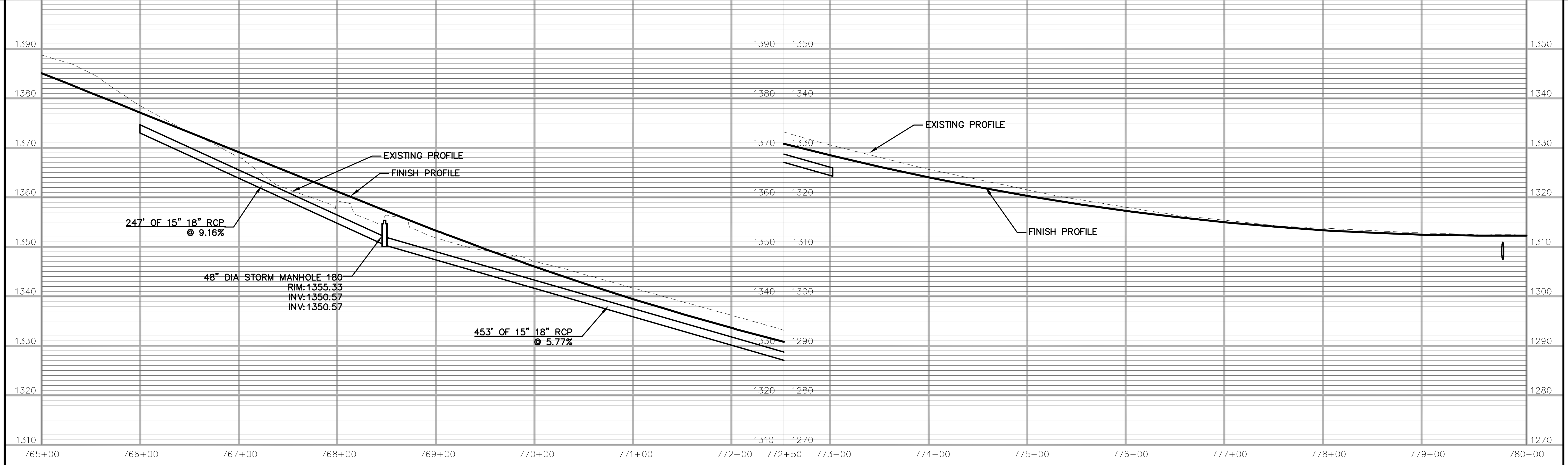
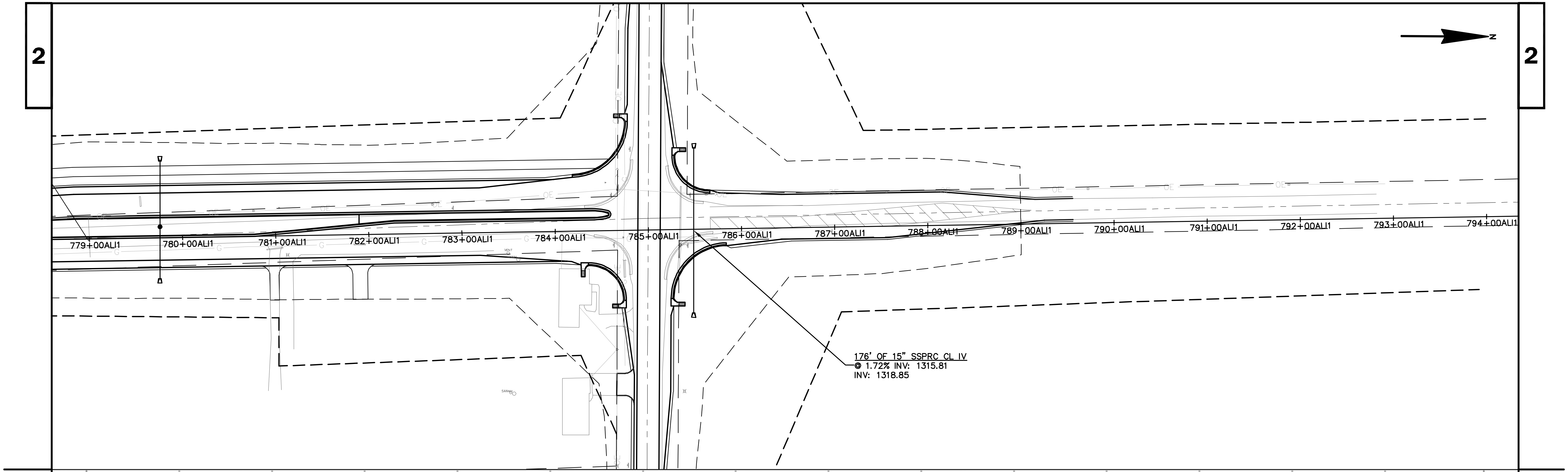
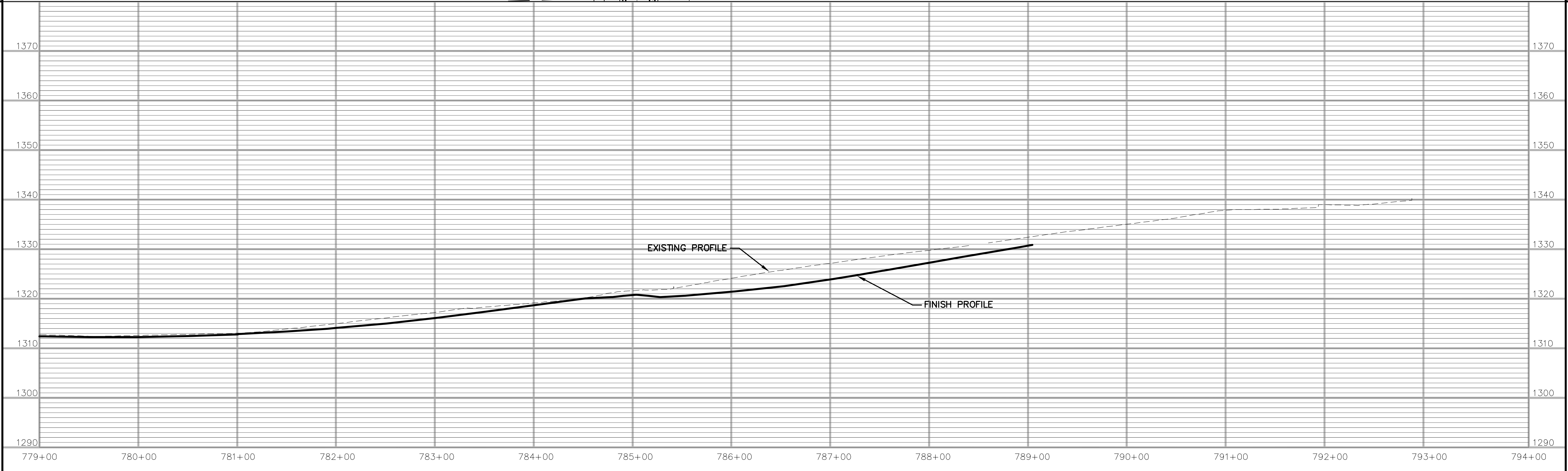


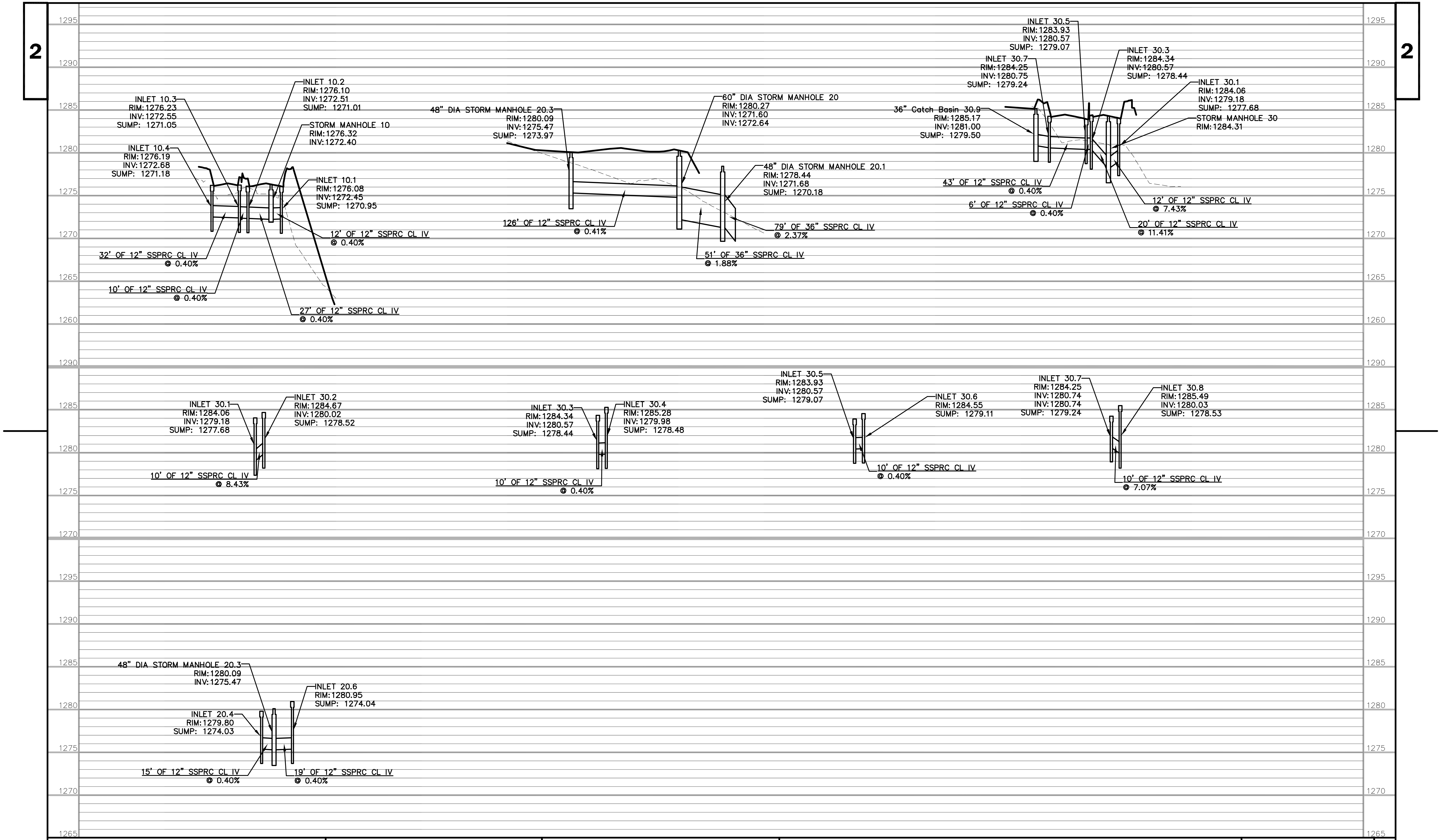


PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	STORM SEWER	SHEET	E



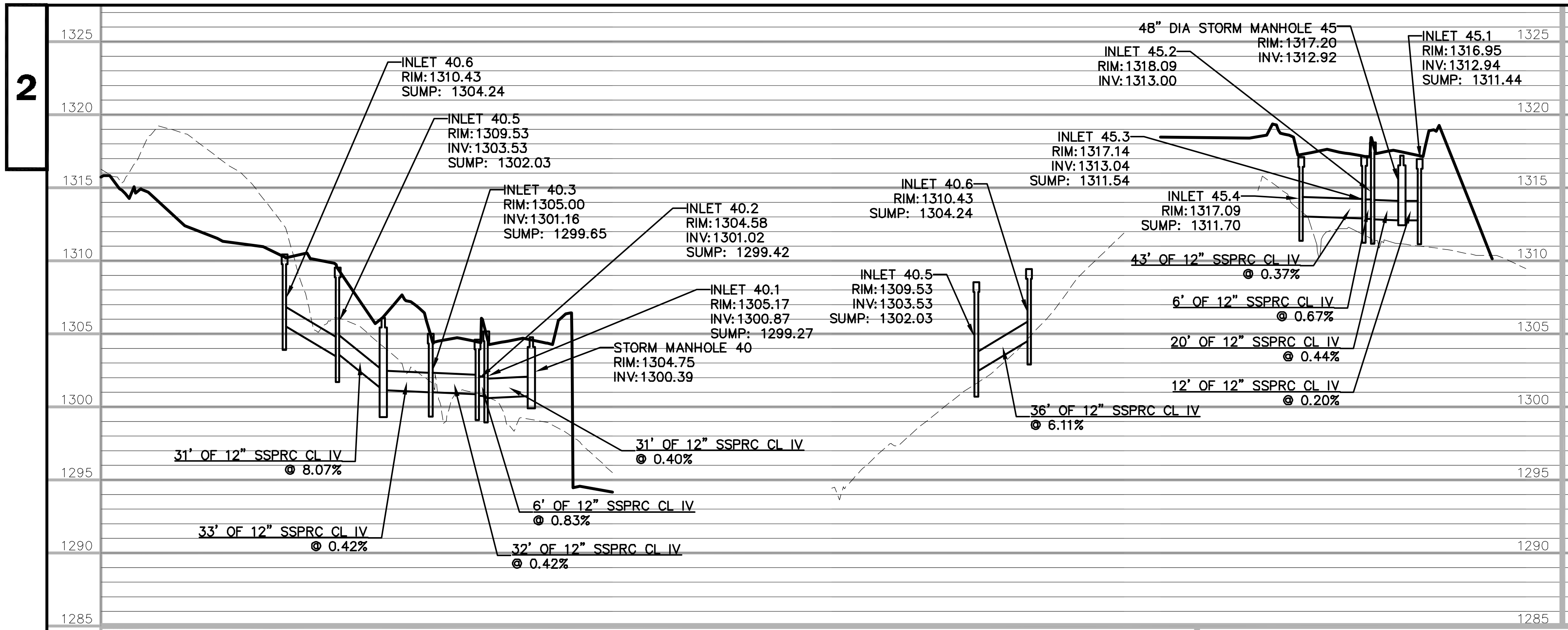


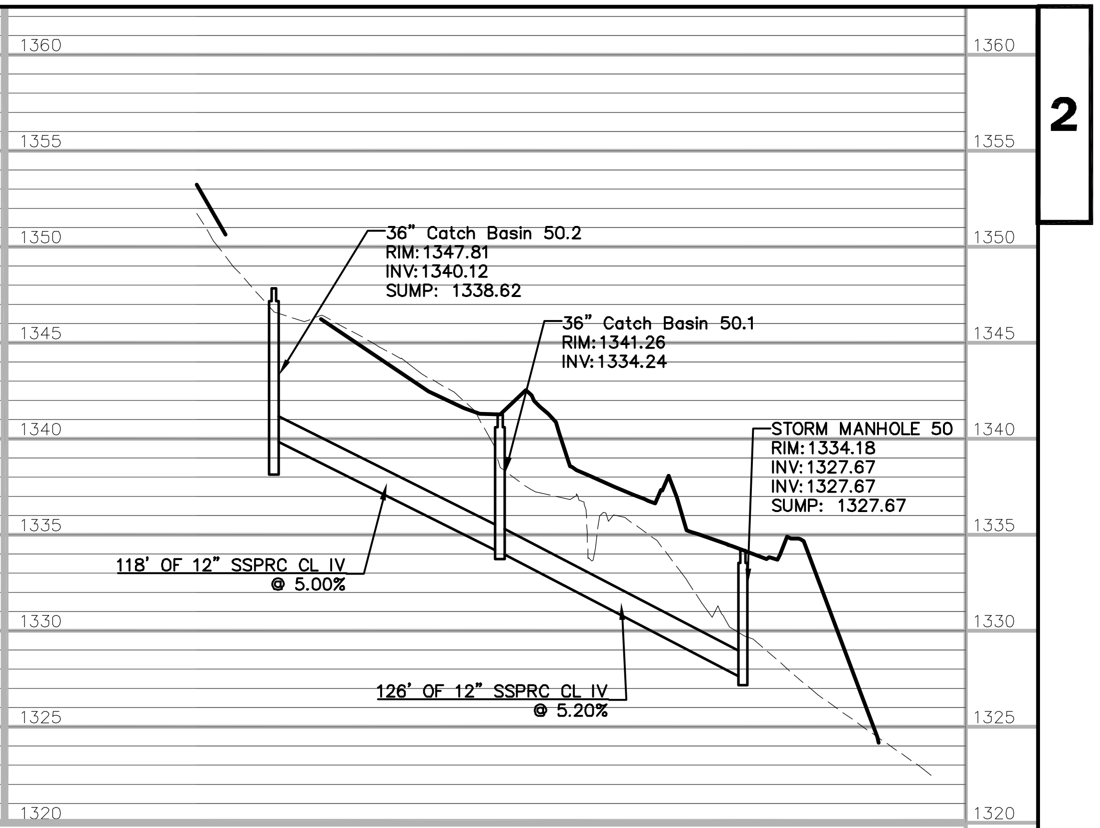
PROJECT NO: | HWY: 28TH AVENUE | COUNTY: MARATHON | STORM SEWER | SHEET **E**

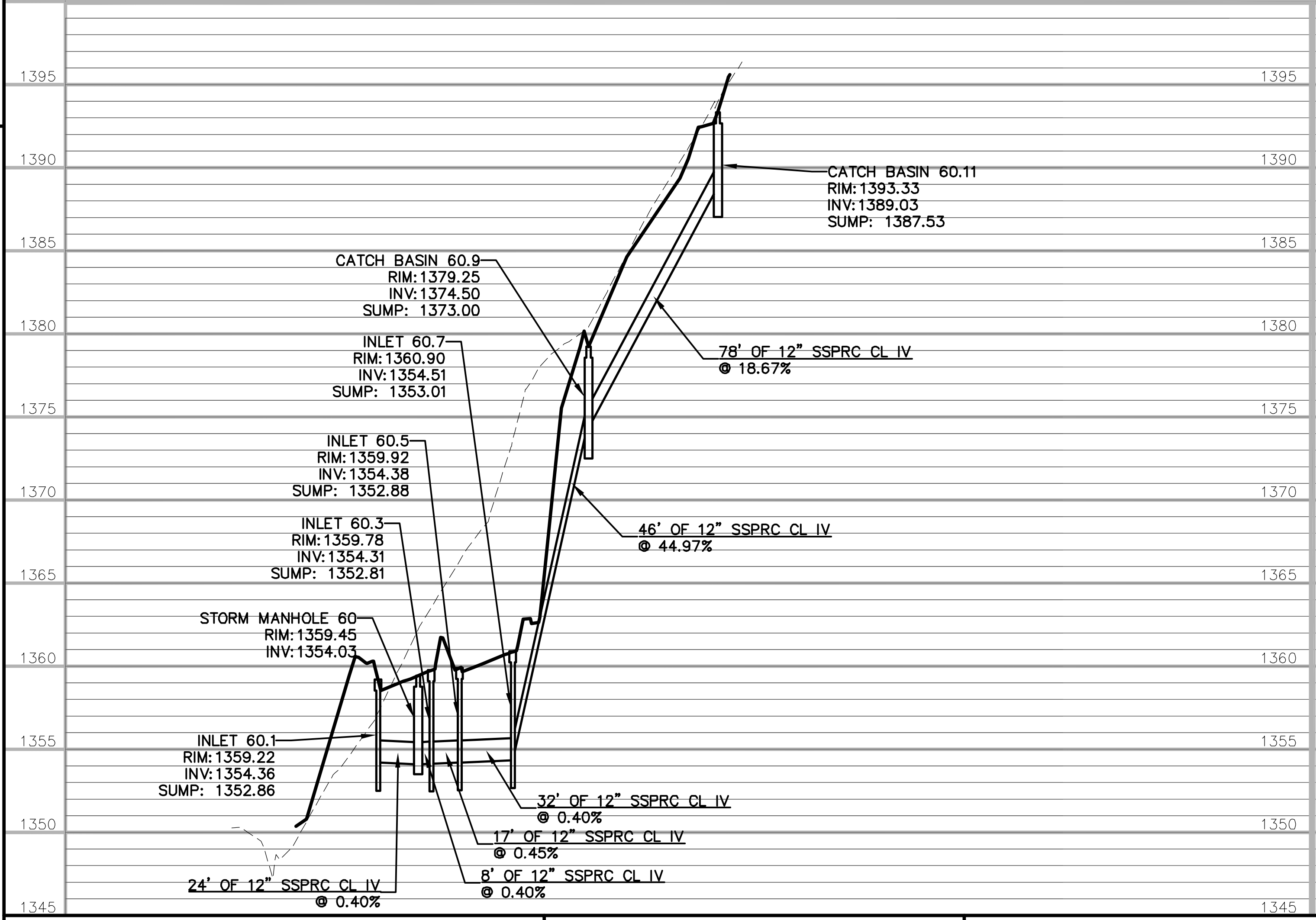


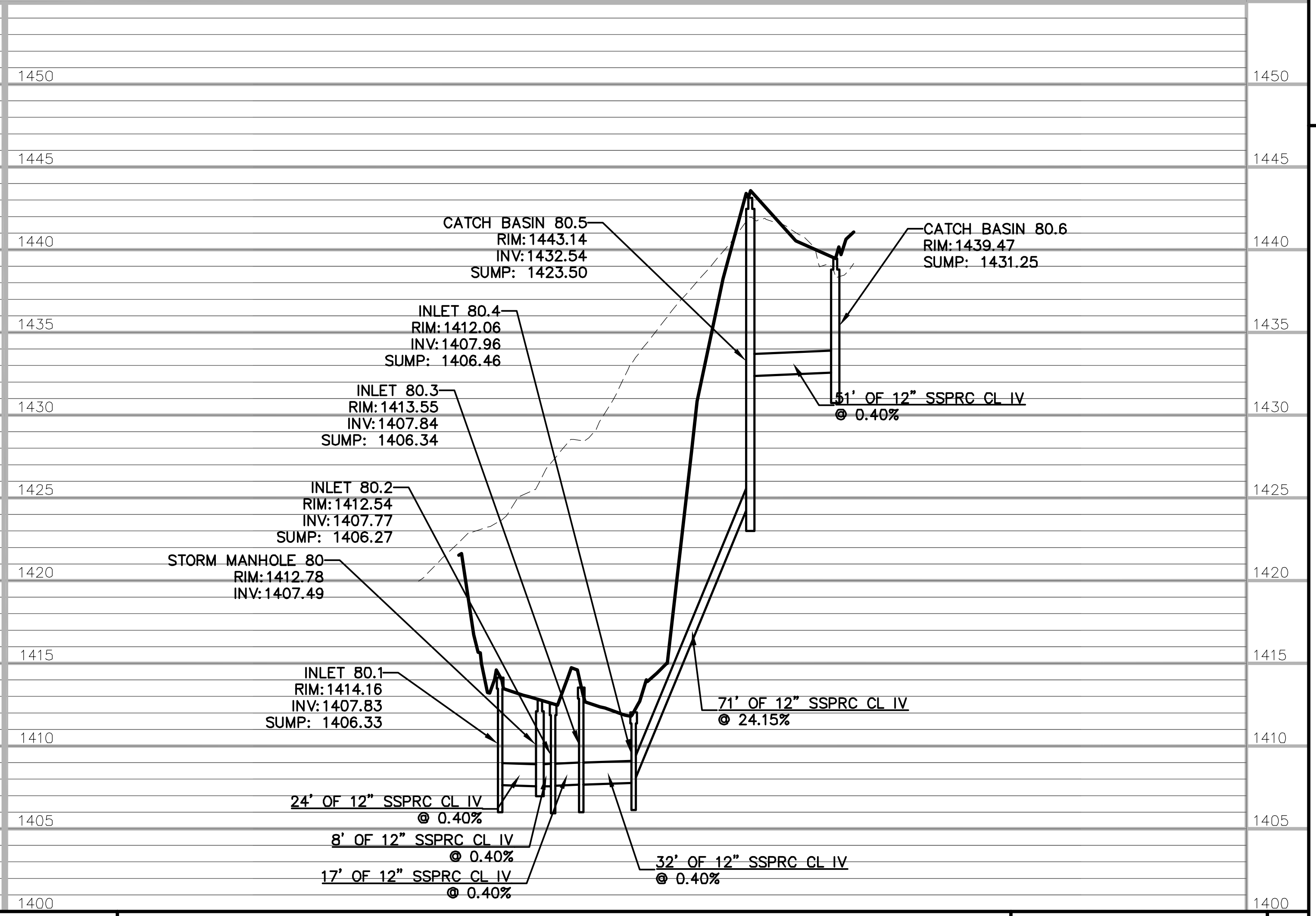
PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	STORM SEWER	SHEET	E

2









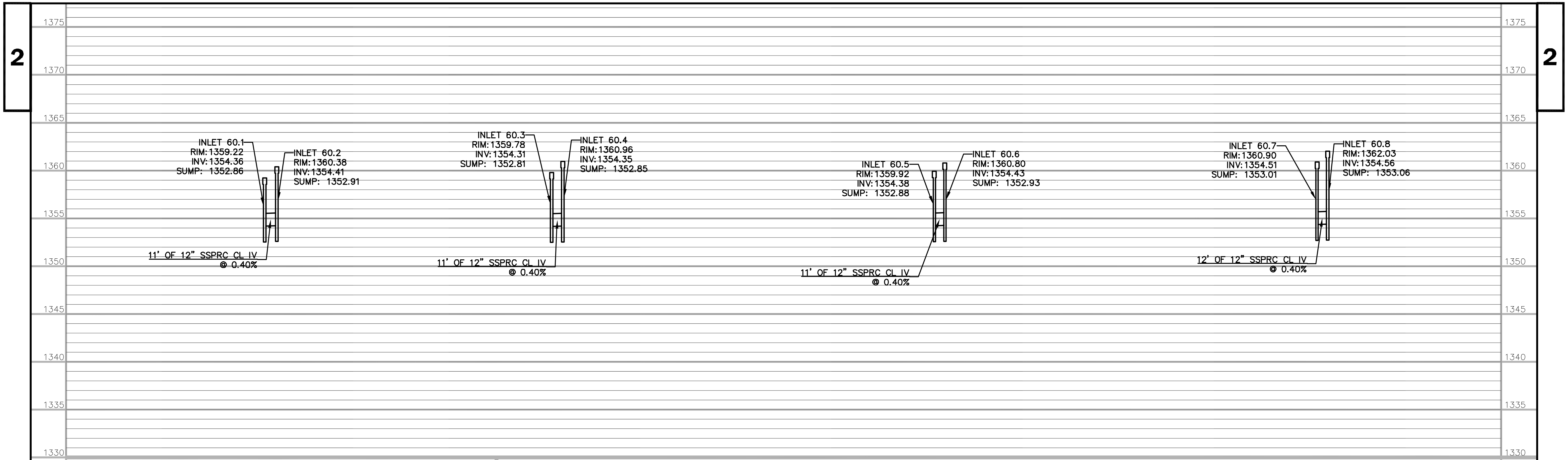
PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	STORM SEWER	SHEET	E

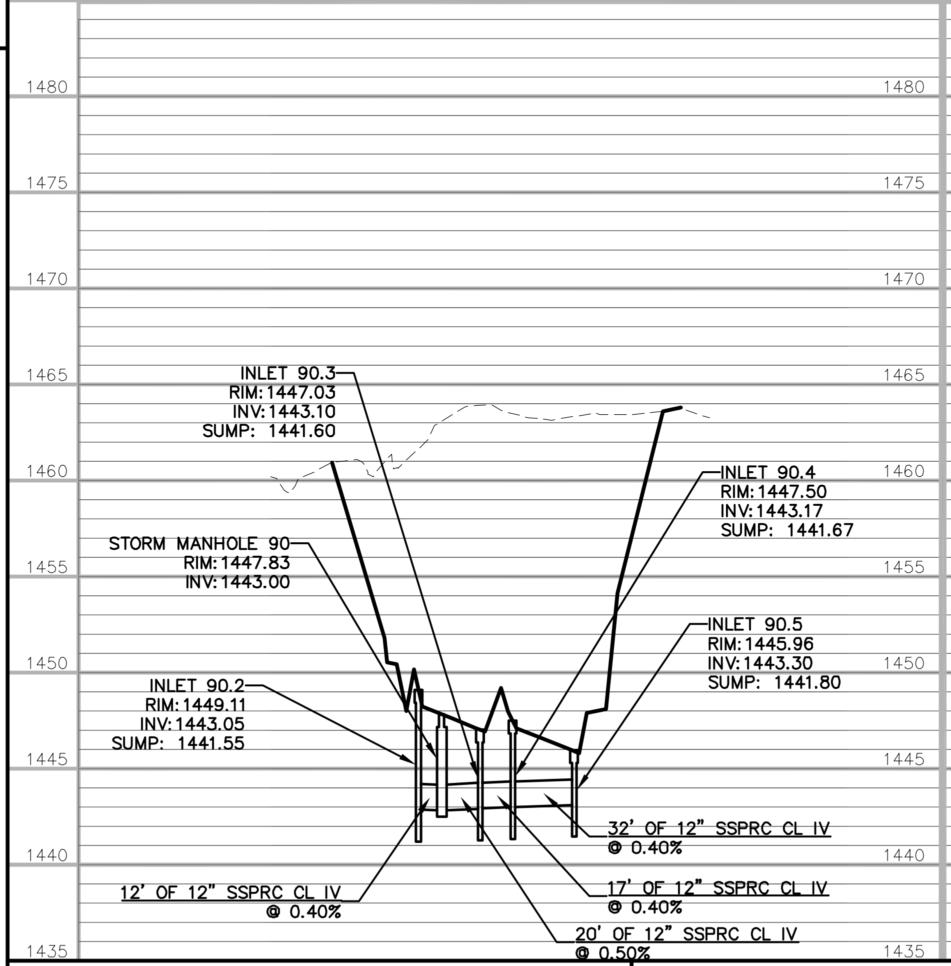
FILE NAME : P:\2008\2008.064 - Marathon Cty Hwy Dept - 28th Ave\Civil 3D\Plans\080101-04_SS.dwg PLOT DATE : 2/23/2009 PLOT BY : BHA PLOT NAME : 0801009 PLOT SCALE : SEE SHEET

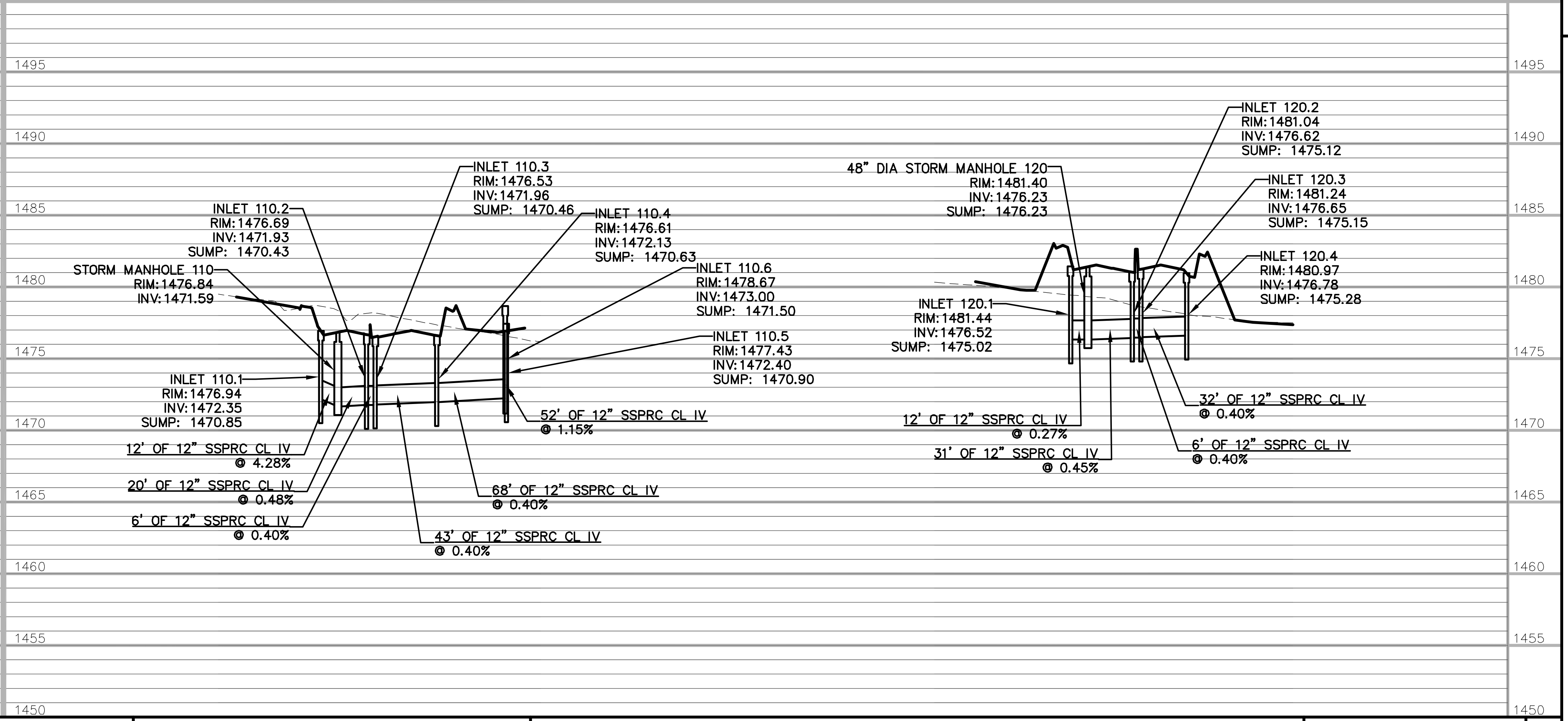
WISDOT/CADDS SHEET 30

2

2







PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	STORM SEWER	SHEET	E

FILE NAME : P:\2008\2008.064 – Marathon Cty Hwy Dept – 28th Ave\Civil 3D\Plans\080101-04_SS.dwg
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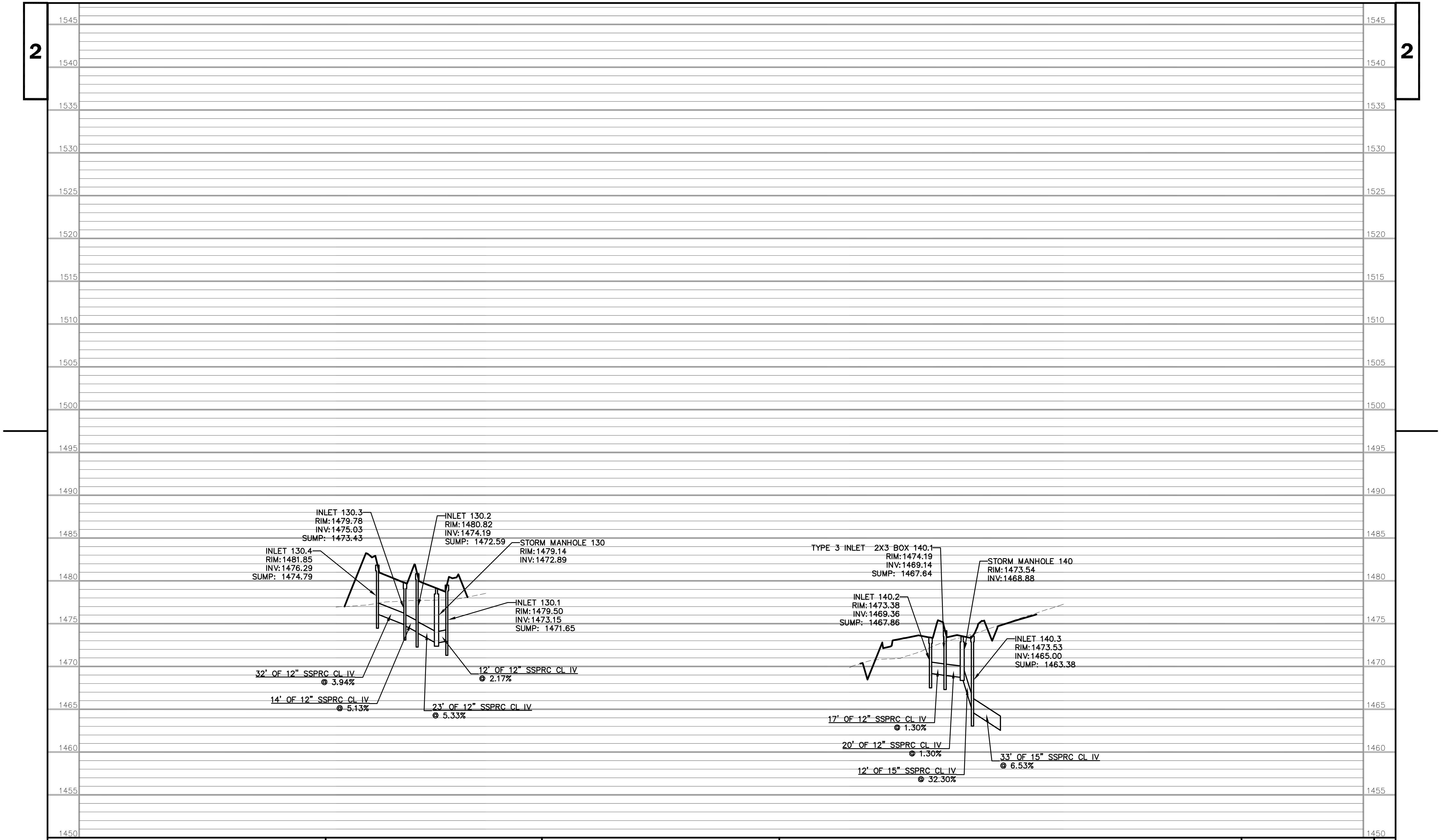
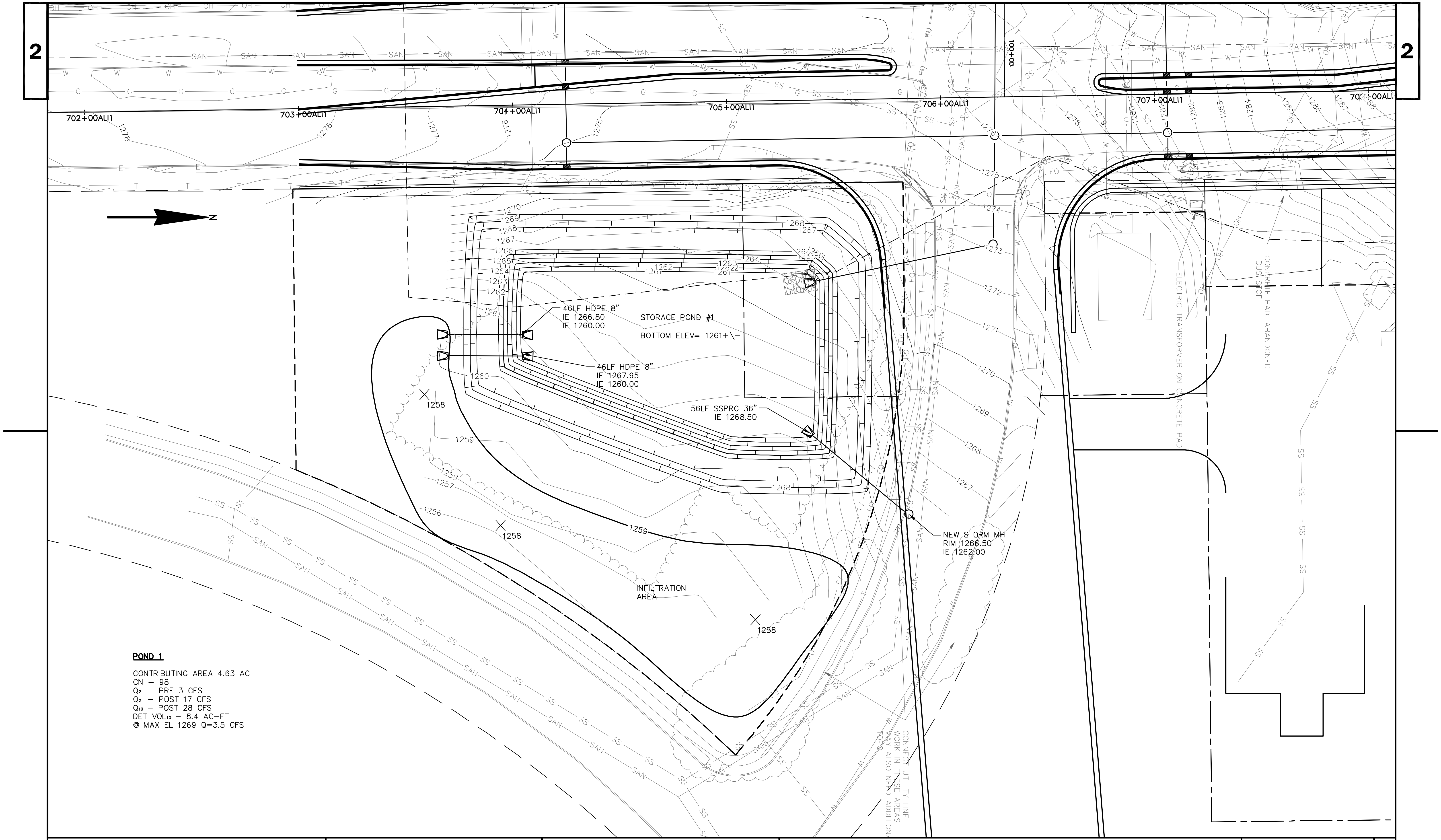
PLOT BY : BHA
PLOT NAME : 080110
PLOT SCALE : SEE SHEET



PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	STORM SEWER	SHEET	E

FILE NAME : P:\2008\2008.064 - Marathon Cty Hwy Dept - 28th Ave\Civil 3D\Plans\080101-04_SS.dwg PLOT DATE : 2/23/2009 PLOT BY : BHA PLOT NAME : 080111 PLOT SCALE : SEE SHEET

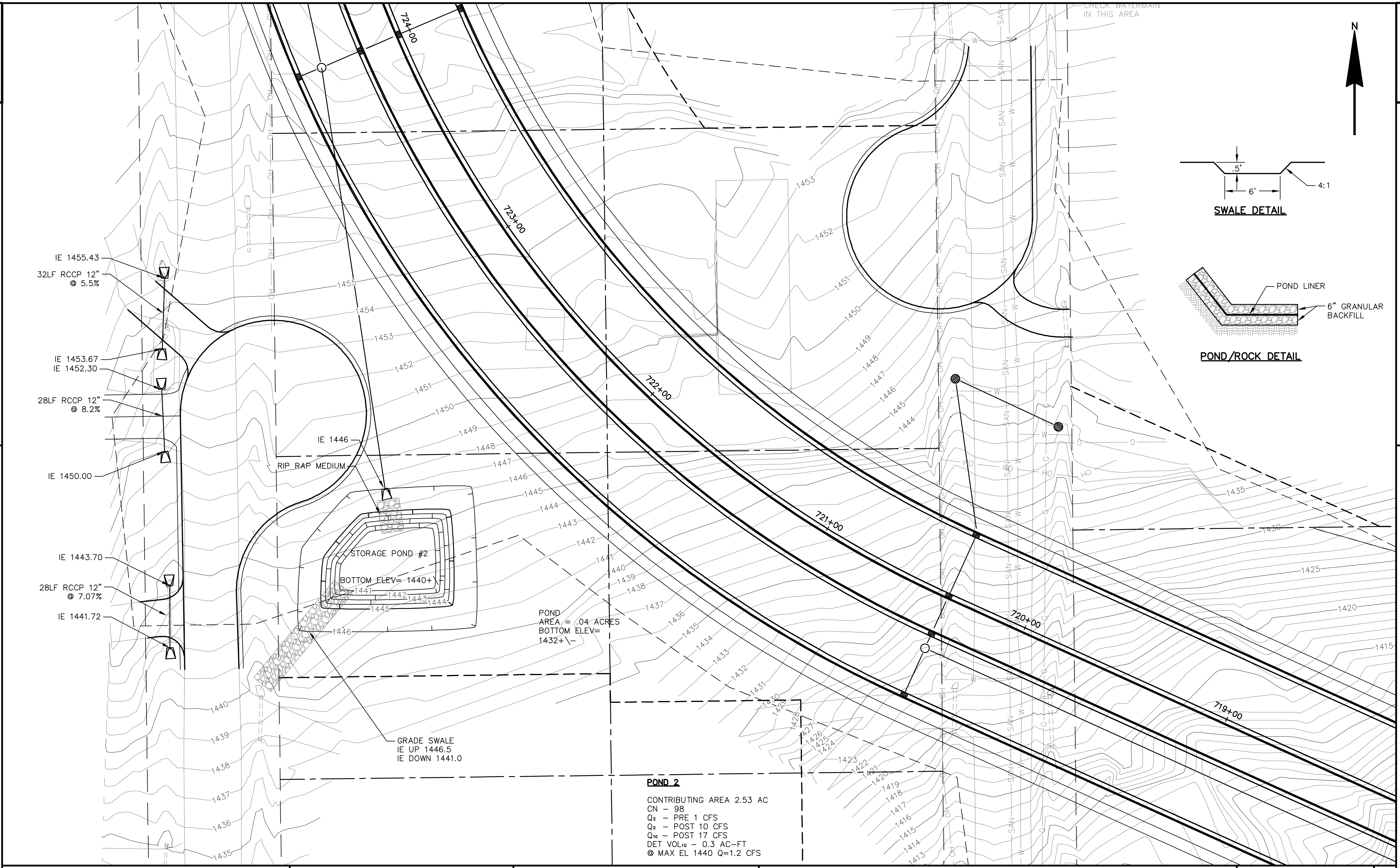


POND 1

CONTRIBUTING AREA 4.63 AC
CN – 98
Q_2 – PRE 3 CFS
Q_2 – POST 17 CFS
Q_{10} – POST 28 CFS
DET VOL_{10} – 8.4 AC–FT
@ MAX EL 1269 Q=3.5 CFS

PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	POND DETAIL	SHEET	E

FILE NAME : P:\2008\2008.064 – Marathon Cty Hwy Dept – 28th Ave\Civil 3D\Plans\080109-11_SS.dwg
PLOT DATE : 8/12/2008
PLOT BY : BHA
PLOT NAME : 080112
PLOT SCALE : SEE SHEET
WISDOT/CADDS SHEET 30

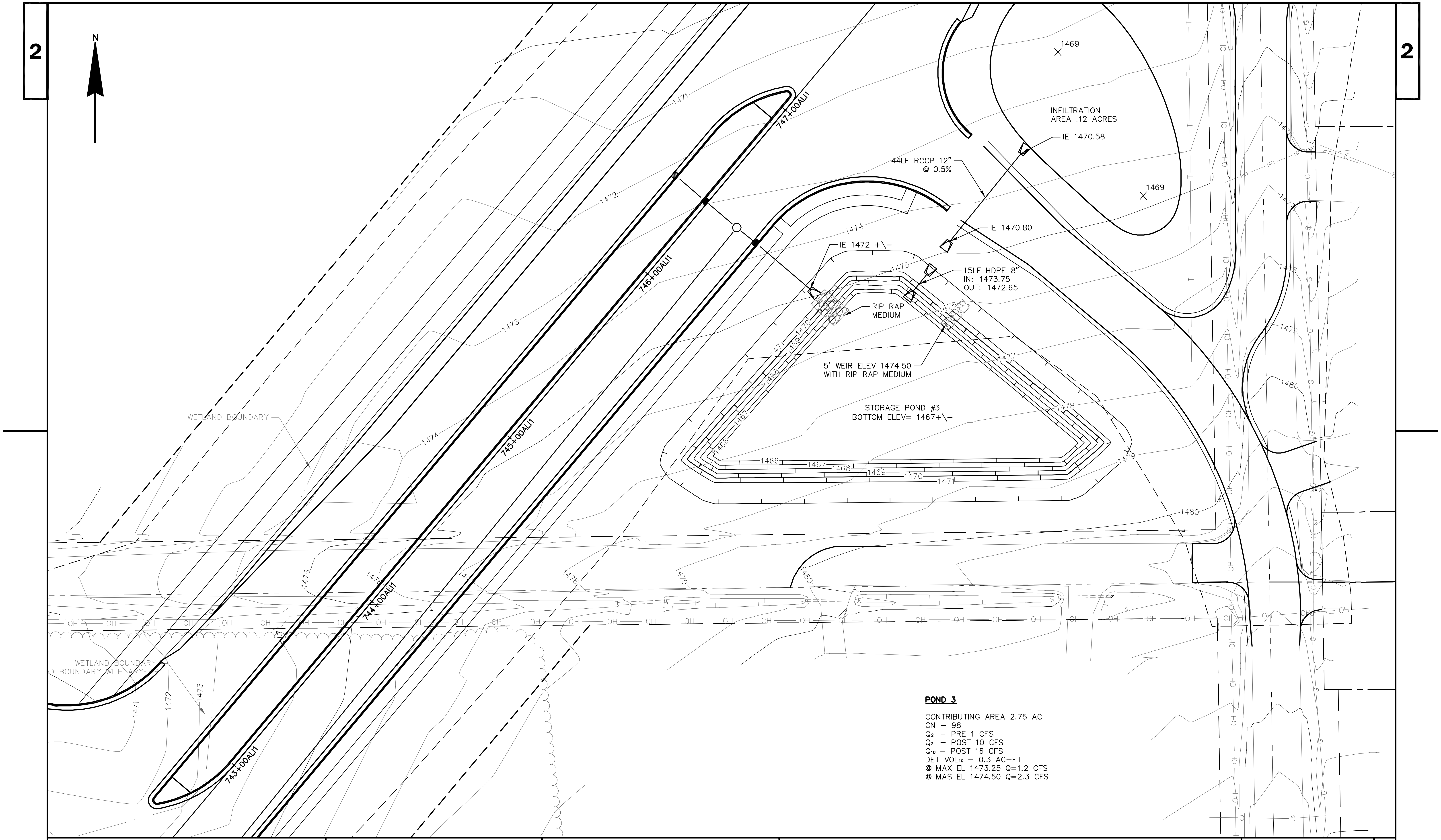


POND 2

CONTRIBUTING AREA 2.53 AC
CN – 98
Q_2 – PRE 1 CFS
Q_2 – POST 10 CFS
Q_{10} – POST 17 CFS
DET VOL_{10} – 0.3 AC–FT
@ MAX EL 1440 Q=1.2 CFS

PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	POND DETAIL	SHEET	E

FILE NAME : P:\2008\2008.064 – Marathon Cty Hwy Dept – 28th Ave\Civil 3D\Plans\080109-11_SS.dwg
PLOT DATE : 8/12/2008
PLOT BY : BHA
PLOT NAME : 080113
PLOT SCALE : SEE SHEET

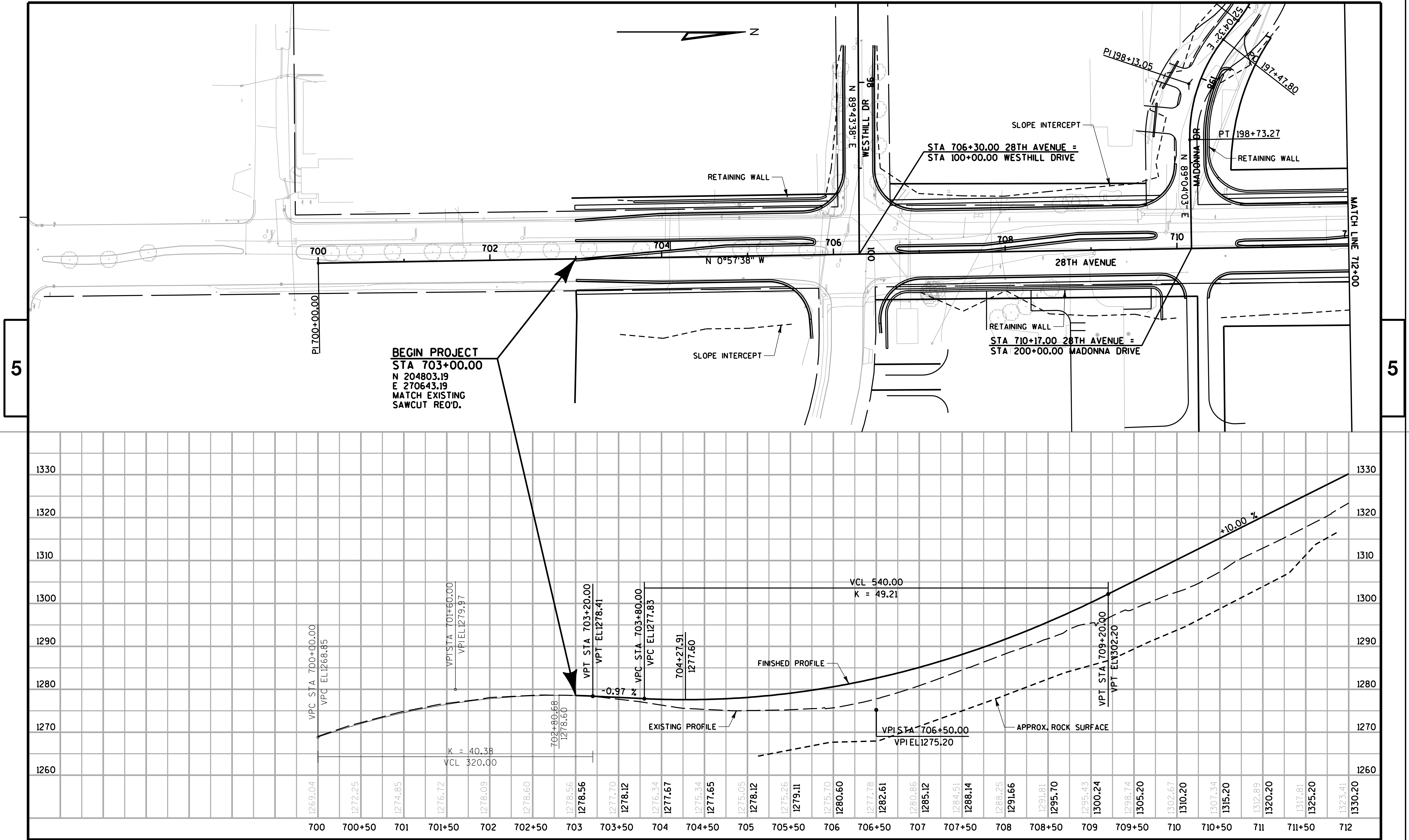


POND 3

CONTRIBUTING AREA 2.75 AC
CN – 98
Q_2 – PRE 1 CFS
Q_2 – POST 10 CFS
Q_{10} – POST 16 CFS
DET VOL_{10} – 0.3 AC–FT
@ MAX EL 1473.25 Q=1.2 CFS
@ MAS EL 1474.50 Q=2.3 CFS

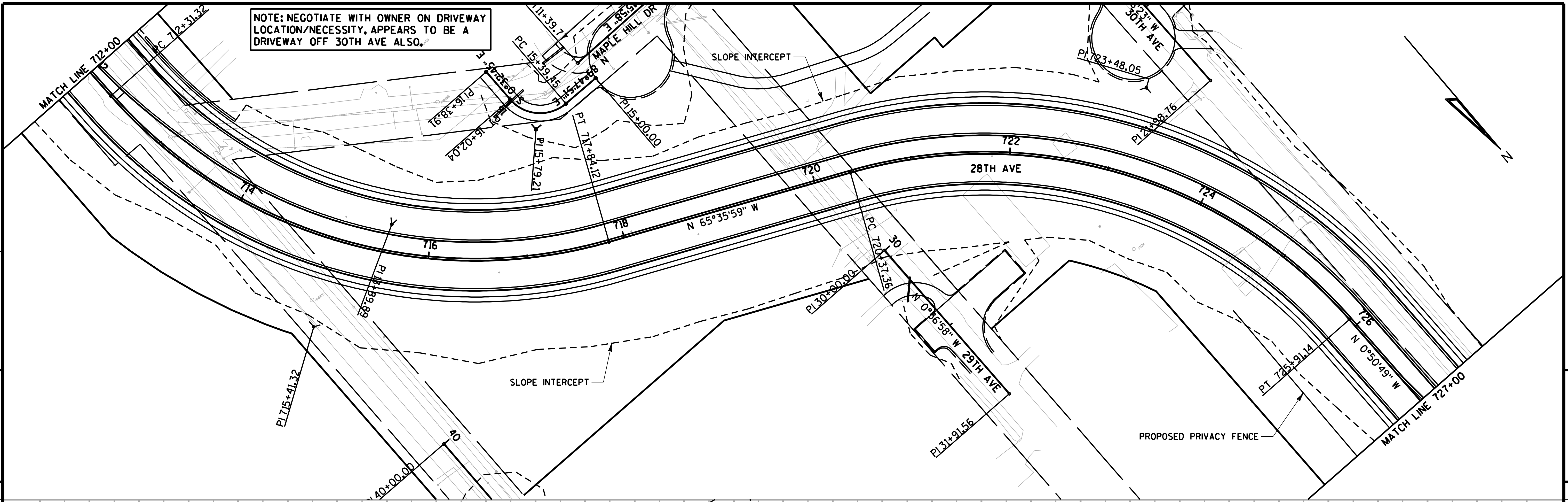
PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	POND DETAIL	SHEET	E

FILE NAME : P:\2008\2008.064 – Marathon Cty Hwy Dept – 28th Ave\Civil 3D\Plans\080109-11_SS.dwg PLOT DATE : 8/12/2008 PLOT BY : BHA PLOT NAME : 080114 PLOT SCALE : SEE SHEET



PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	PLAN & PROFILE	SHEET	E

FILE NAME : t:\410537\dgn\050101_pp.DGN PLOT DATE : 2/25/2009 PLOT BY : AYRES-EC PLOT NAME : PLOT SCALE : 1:100


NOTE: NEGOTIATE WITH OWNER ON DRIVEWAY LOCATION/NECESSITY, APPEARS TO BE A DRIVEWAY OFF 30TH AVE ALSO.

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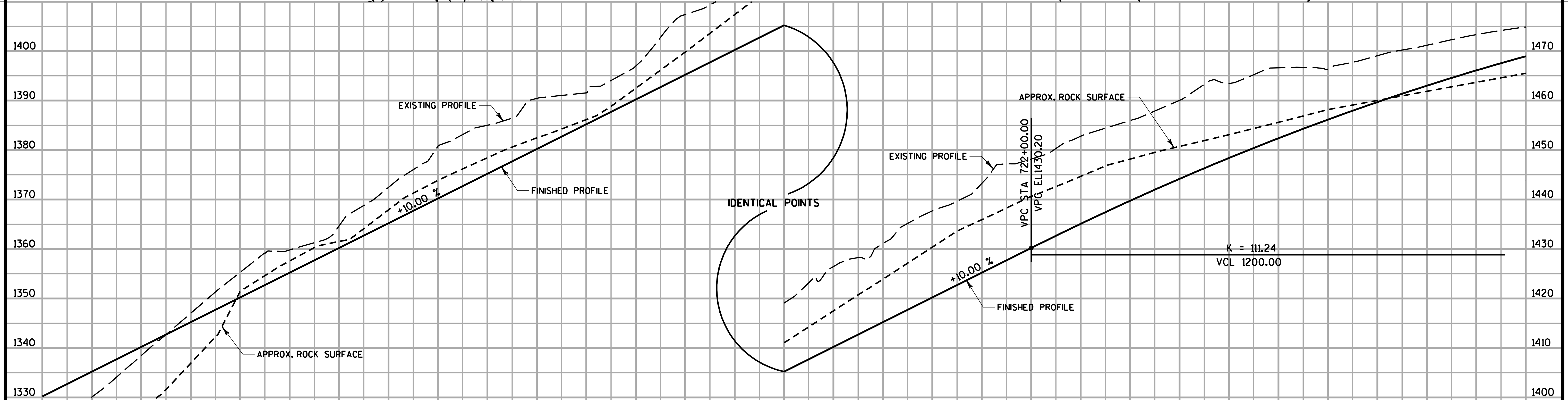
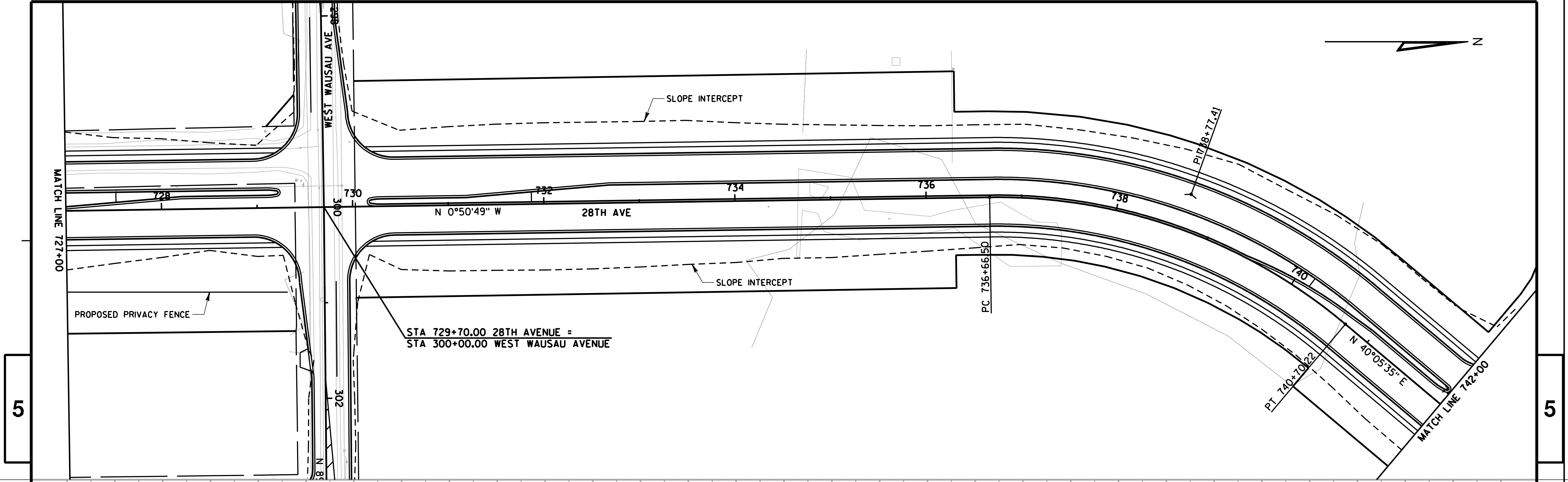
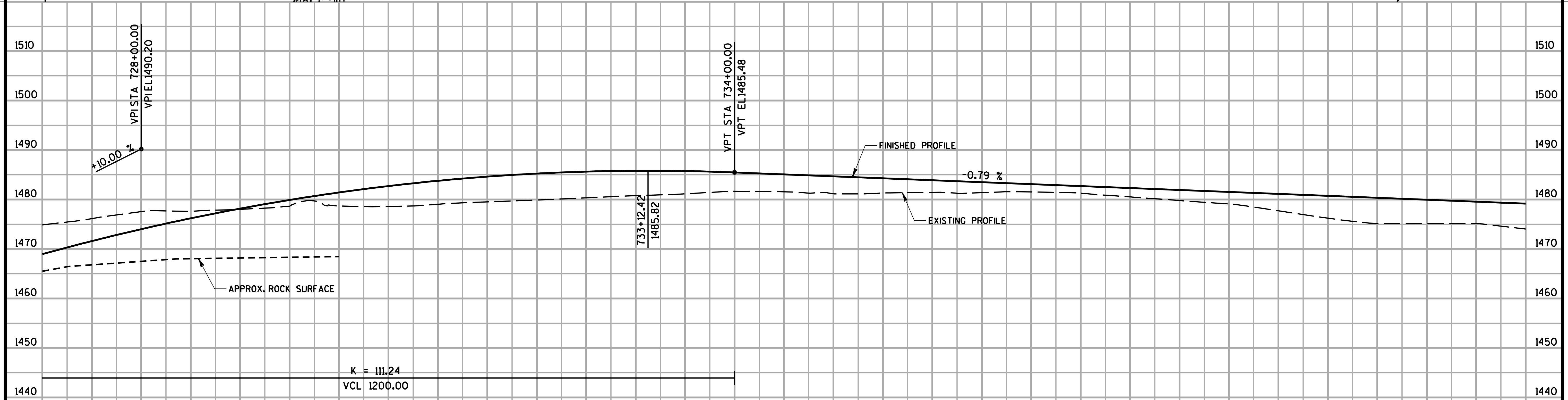


712	1323.41	1330.20
712+50	1330.09	1335.20
713	1338.18	1340.20
713+50	1347.03	1345.20
714	1355.30	1350.20
714+50	1359.80	1355.20
715	1364.69	1360.20
715+50	1372.48	1365.20
716	1380.78	1370.20
716+50	1385.01	1375.20
717	1390.45	1380.20
717+50	1391.57	1385.20
718	1396.98	1390.20
718+50	1407.39	1395.20
719	1412.09	1400.20
719+50	1419.07	1405.20
720	1426.47	1410.20
720+50	1431.13	1415.20
721	1437.72	1420.20
721+50	1443.25	1425.20
722	1448.19	1430.20
722+50	1452.80	1435.09
723	1455.97	1439.75
723+50	1460.03	1444.19
724	1463.43	1448.40
724+50	1466.63	1452.39
725	1466.33	1456.15
725+50	1469.08	1459.69
726	1471.18	1463.01
726+50	1473.33	1466.10
727	1474.87	1468.96

PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	PLAN & PROFILE	SHEET	E

FILE NAME : t:\410537\dgn\050102_pp.dgn PLOT DATE : 2/25/2009 PLOT BY : AYRES-EC PLOT NAME : PLOT SCALE : 1:100

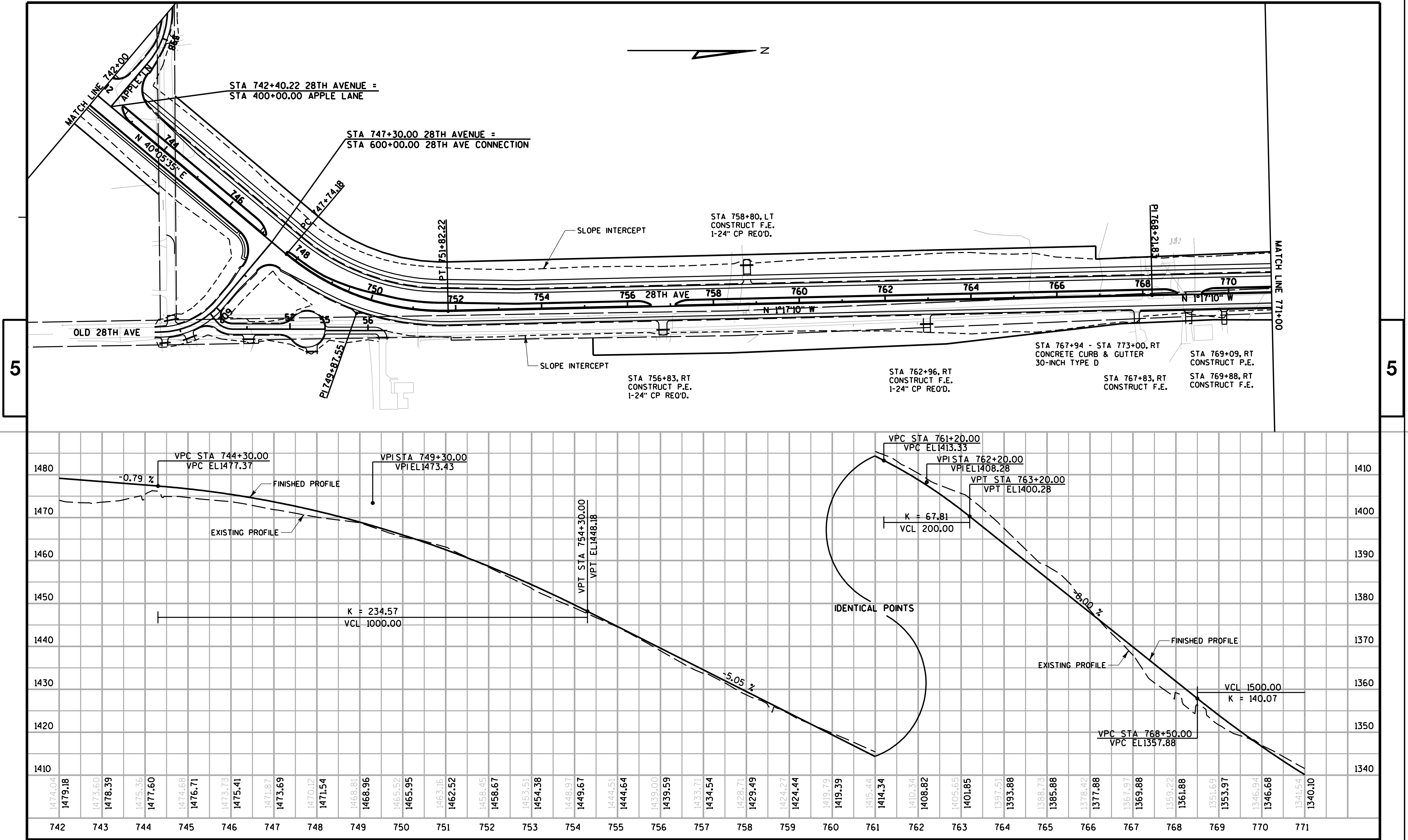




727	1474.87	1468.96
727+50	1476.16	1471.60
728	1477.57	1474.02
728+50	1477.63	1476.21
729	1478.01	1478.18
729+50	1478.64	1479.92
730	1478.69	1481.43
730+50	1478.61	1482.73
731	1479.05	1483.79
731+50	1479.53	1484.64
732	1479.91	1485.25
732+50	1480.36	1485.65
733	1480.78	1485.81
733+50	1481.16	1485.76
734	1481.67	1485.48
734+50	1481.55	1485.08
735	1481.17	1484.69
735+50	1481.32	1484.30
736	1481.46	1483.90
736+50	1481.39	1483.51
737	1481.53	1483.11
737+50	1481.30	1482.72
738	1480.53	1482.33
738+50	1479.78	1481.93
739	1479.10	1481.54
739+50	1477.72	1481.15
740	1476.24	1480.75
740+50	1475.19	1480.36
741	1475.16	1479.96
741+50	1475.14	1479.57
742	1474.04	1479.18

PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	PLAN & PROFILE	SHEET	E

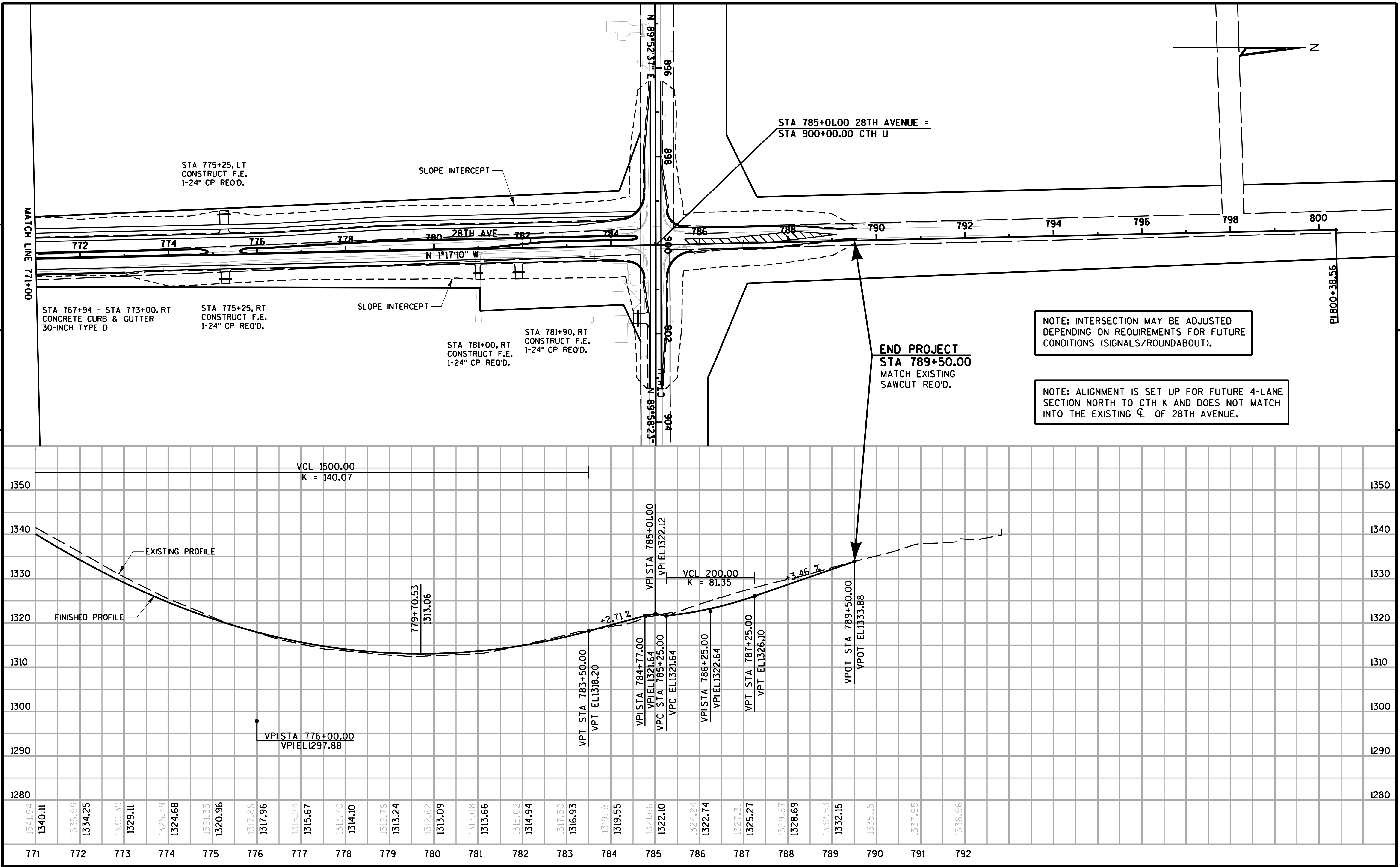
FILE NAME : t:\410537\dgn\050103_pp.dgn
PLOT DATE : 2/25/2009
PLOT BY : AYRES-EC
PLOT NAME :
PLOT SCALE : 1:100



742	1474.04	1479.18
743	1473.60	1478.39
744	1475.36	1477.60
745	1474.68	1476.71
746	1473.73	1475.41
747	1471.87	1473.69
748	1470.12	1471.54
749	1468.81	1468.96
750	1465.52	1465.95
751	1463.16	1462.52
752	1458.45	1458.67
753	1453.51	1454.38
754	1448.97	1449.67
755	1444.51	1444.64
756	1439.00	1439.59
757	1433.71	1434.54
758	1428.71	1429.49
759	1424.27	1424.44
760	1419.79	1419.39
761	1415.44	1414.34
762	1410.34	1408.82
763	1405.65	1401.85
764	1397.51	1393.88
765	1388.73	1385.88
766	1378.42	1377.88
767	1367.97	1369.88
768	1359.22	1361.88
769	1351.69	1353.97
770	1346.94	1346.68
771	1341.54	1340.10

PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	PLAN & PROFILE	SHEET E

FILE NAME : t:\410537\dgn\050104_pp.dgn PLOT DATE : 2/25/2009 PLOT BY : AYRES-EC PLOT NAME : PLOT SCALE : 1:200

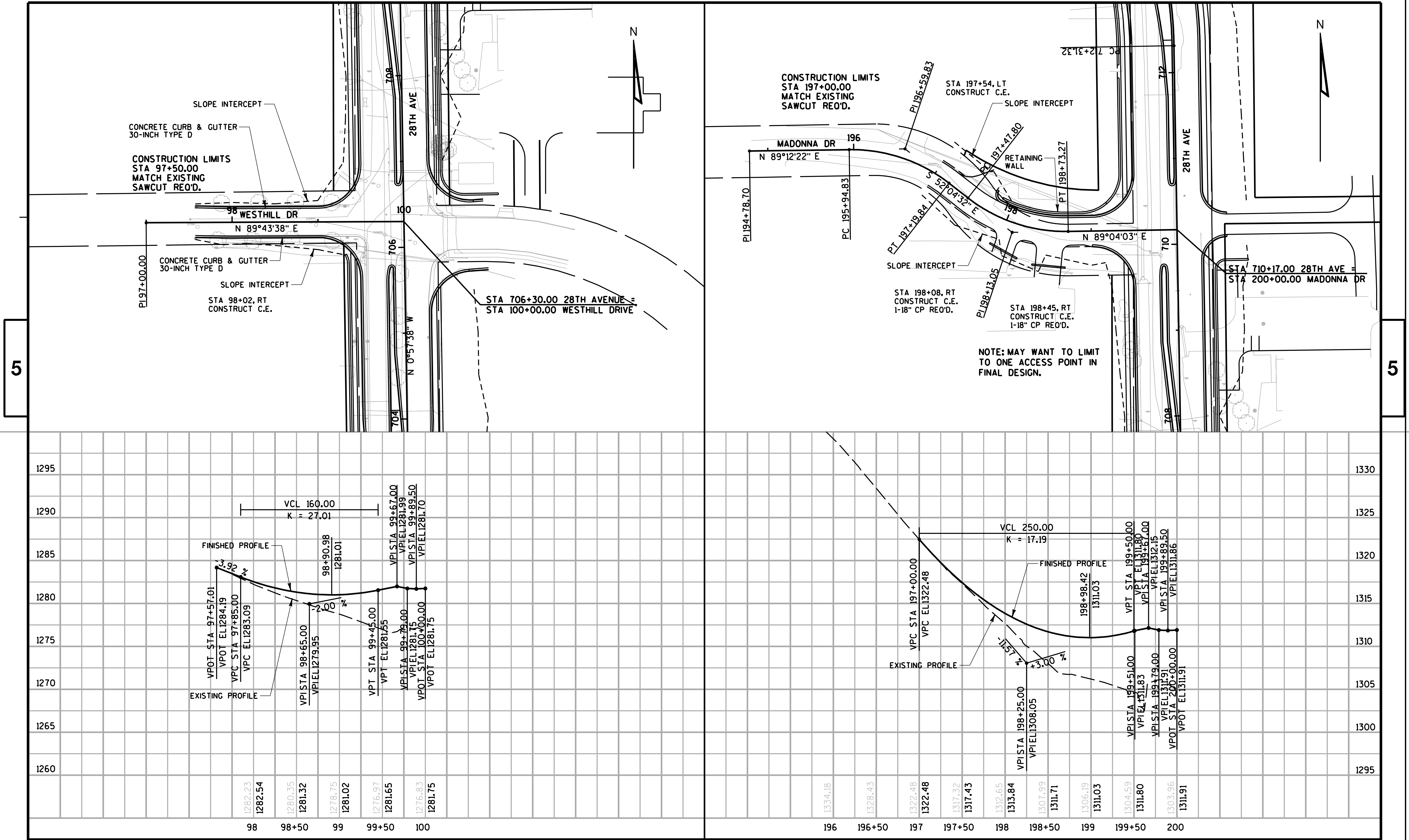


NOTE: INTERSECTION MAY BE ADJUSTED DEPENDING ON REQUIREMENTS FOR FUTURE CONDITIONS (SIGNALS/ROUNDABOUT).

NOTE: ALIGNMENT IS SET UP FOR FUTURE 4-LANE SECTION NORTH TO CTH K AND DOES NOT MATCH INTO THE EXISTING ℄ OF 28TH AVENUE.

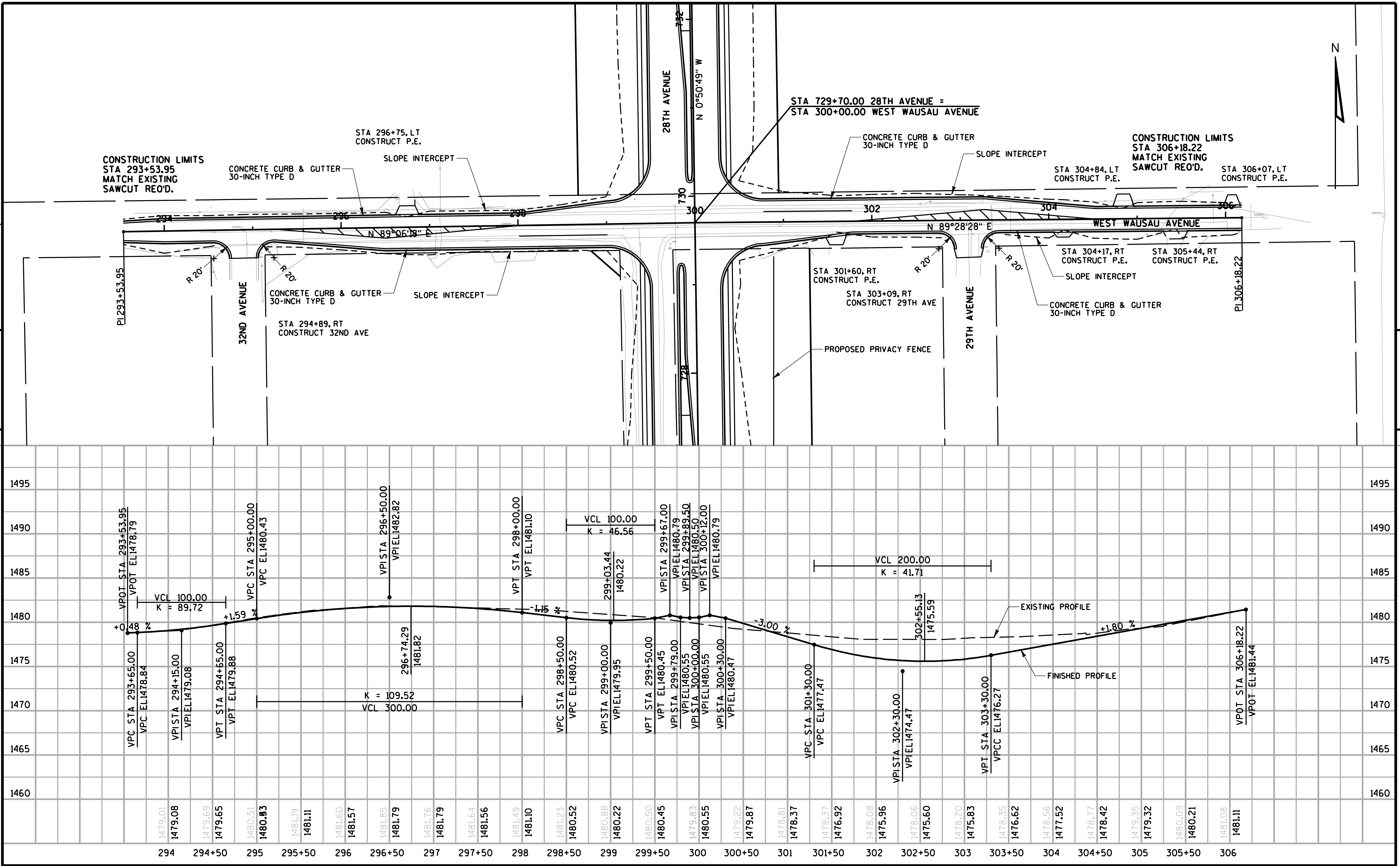
PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	PLAN & PROFILE	SHEET	E

FILE NAME : t:\410537\dgn\050105_pp.dgn PLOT DATE : 2/25/2009 PLOT BY : AYRES-EC PLOT NAME : PLOT SCALE : 1:200



PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	PLAN & PROFILE - WESTHILL & MADONNA	SHEET	E

FILE NAME : t:\410537\dgn\050106_pp.dgn PLOT DATE : 2/25/2009 PLOT BY : AYRES-EC PLOT NAME : PLOT SCALE : 1:100



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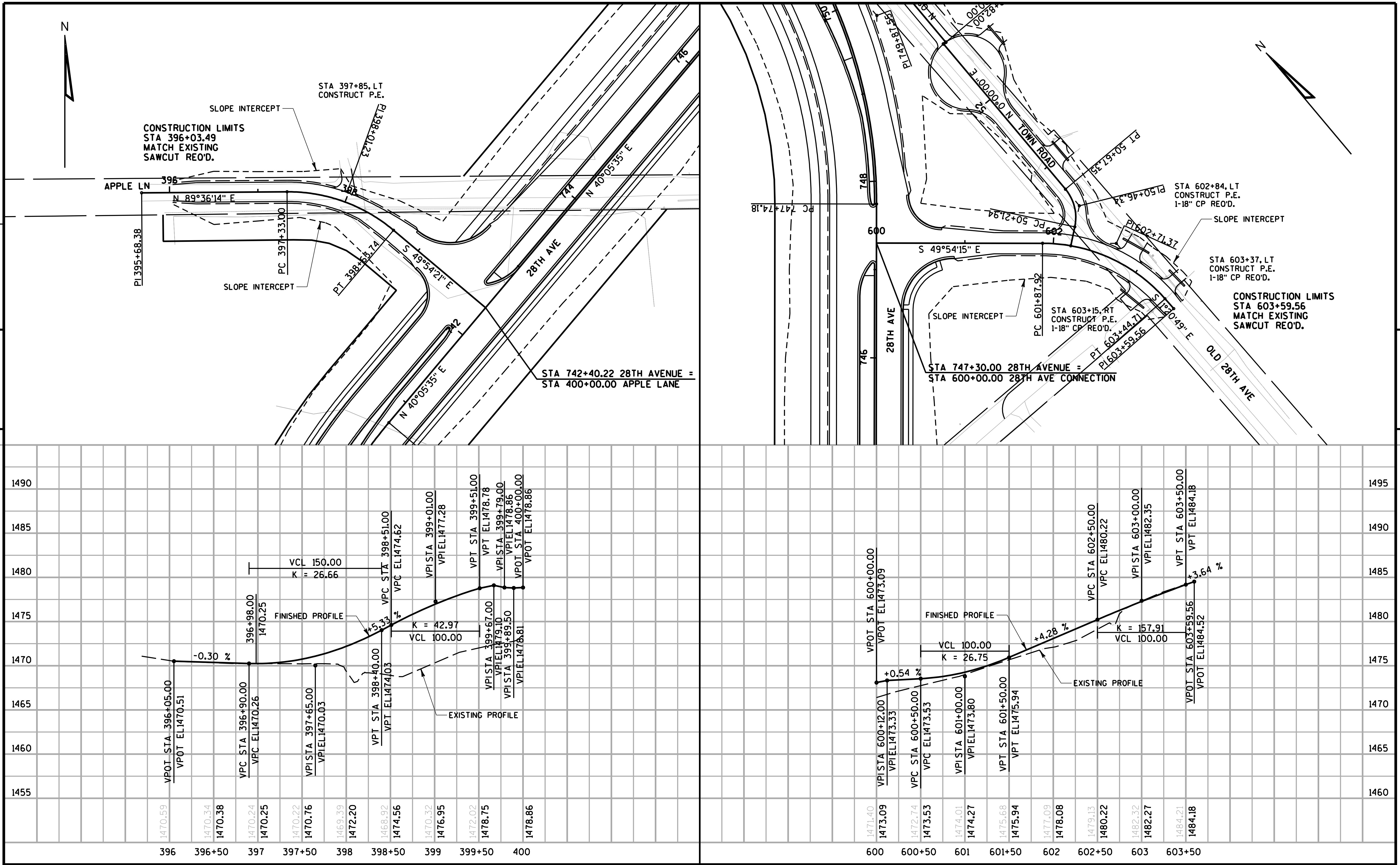
PROJECT NO: | HWY: 28TH AVENUE | COUNTY: MARATHON | PLAN & PROFILE - WEST WAUSAU AVE | SHEET | E

FILE NAME : t:\410537\dgn\050107_pp.dgn
PLOT DATE : 2/25/2009
PLOT BY : AYRES-EC
PLOT NAME :
PLOT SCALE : 1:100



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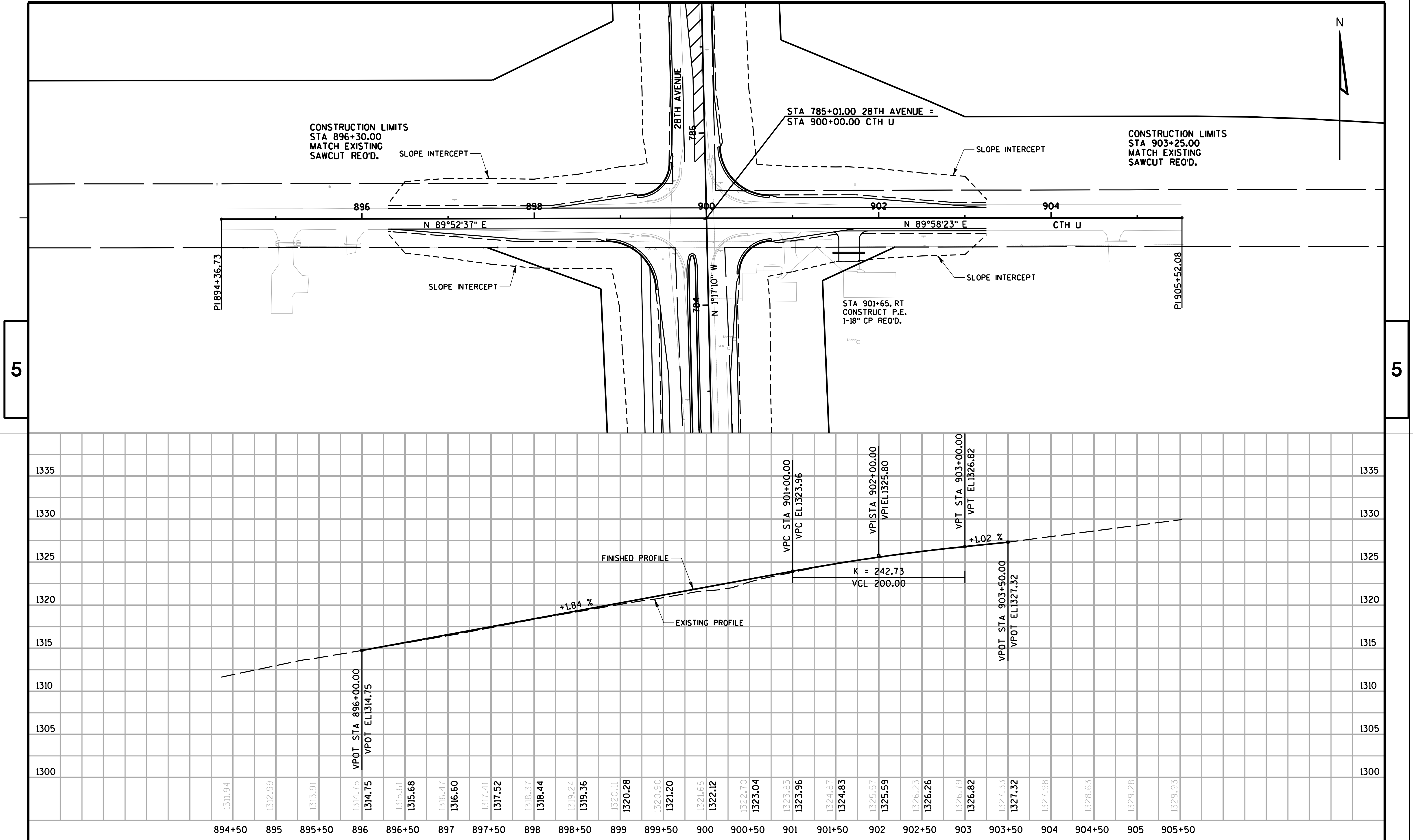
PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	PLAN & PROFILE - APPLE LN & 28TH CONNECTION	SHEET	E

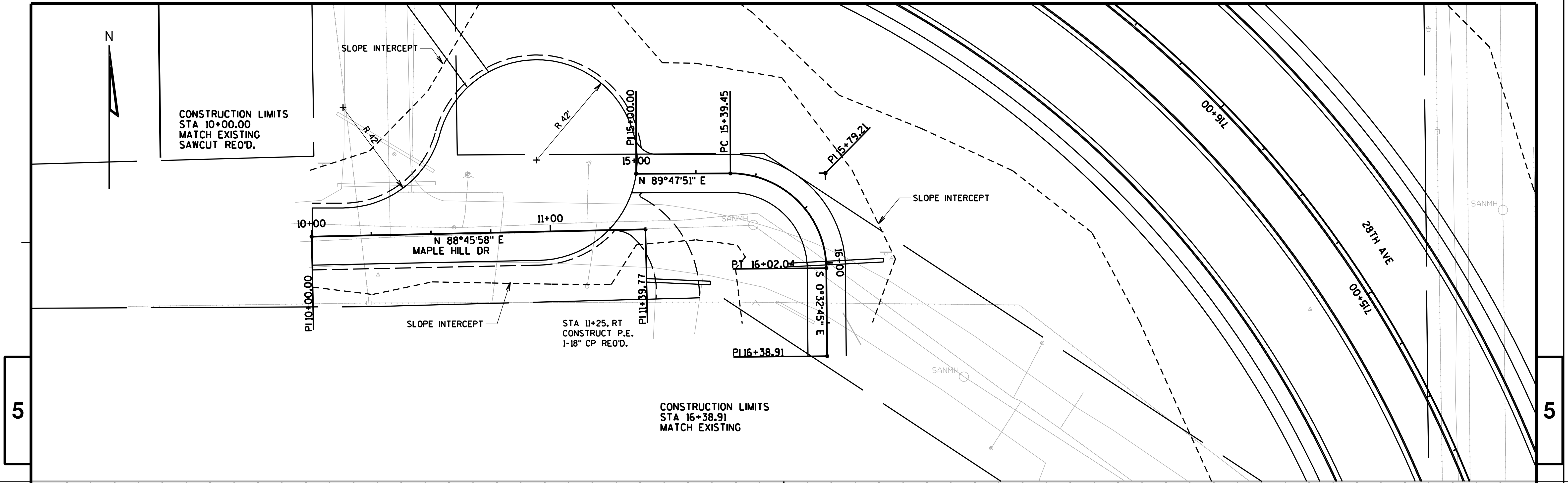
FILE NAME : t:\410537\dgn\050108_pp.dgn PLOT DATE : 2/25/2009 PLOT BY : AYRES-EC PLOT NAME : PLOT SCALE : 1:100

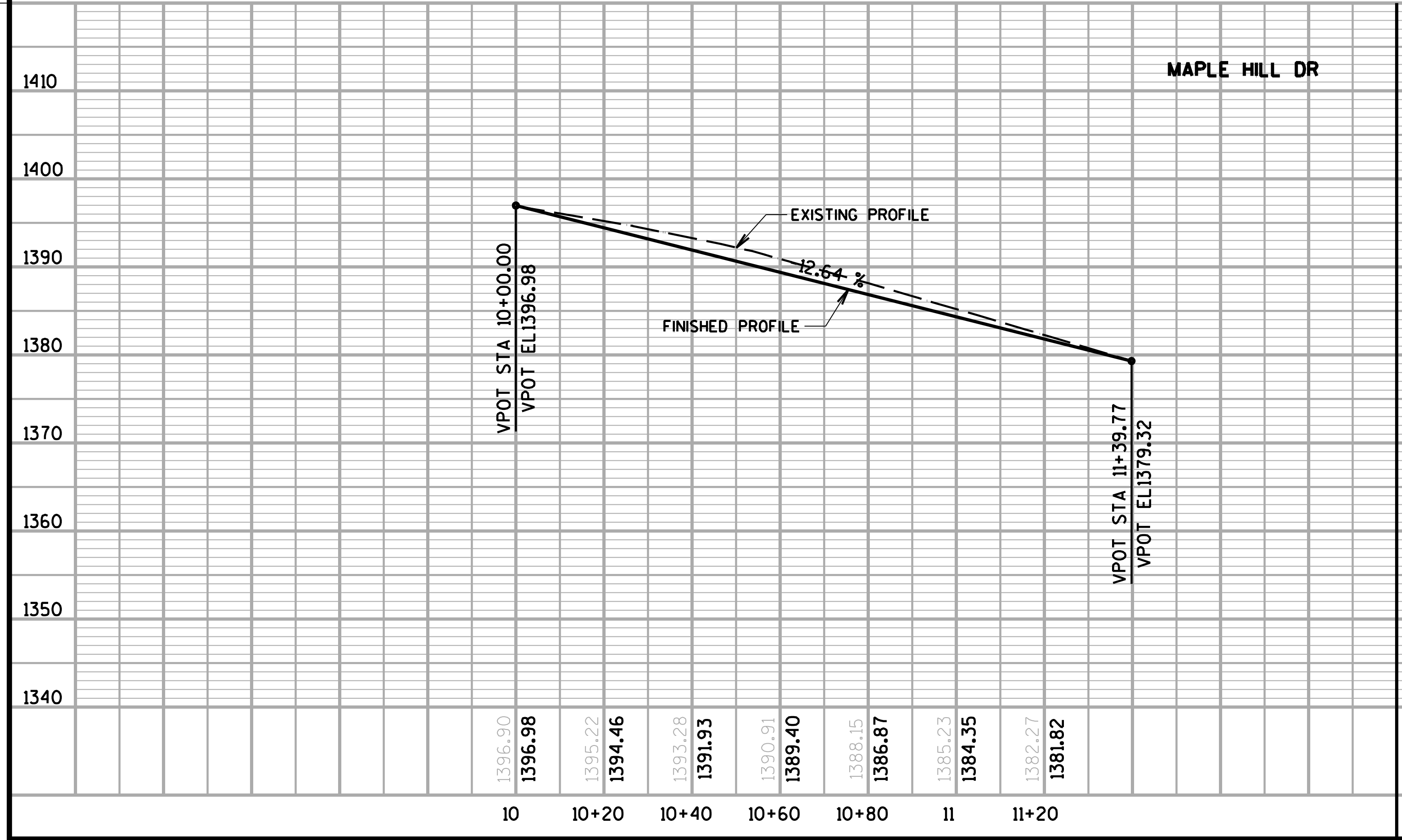
WISDOT/CADDS SHEET 40

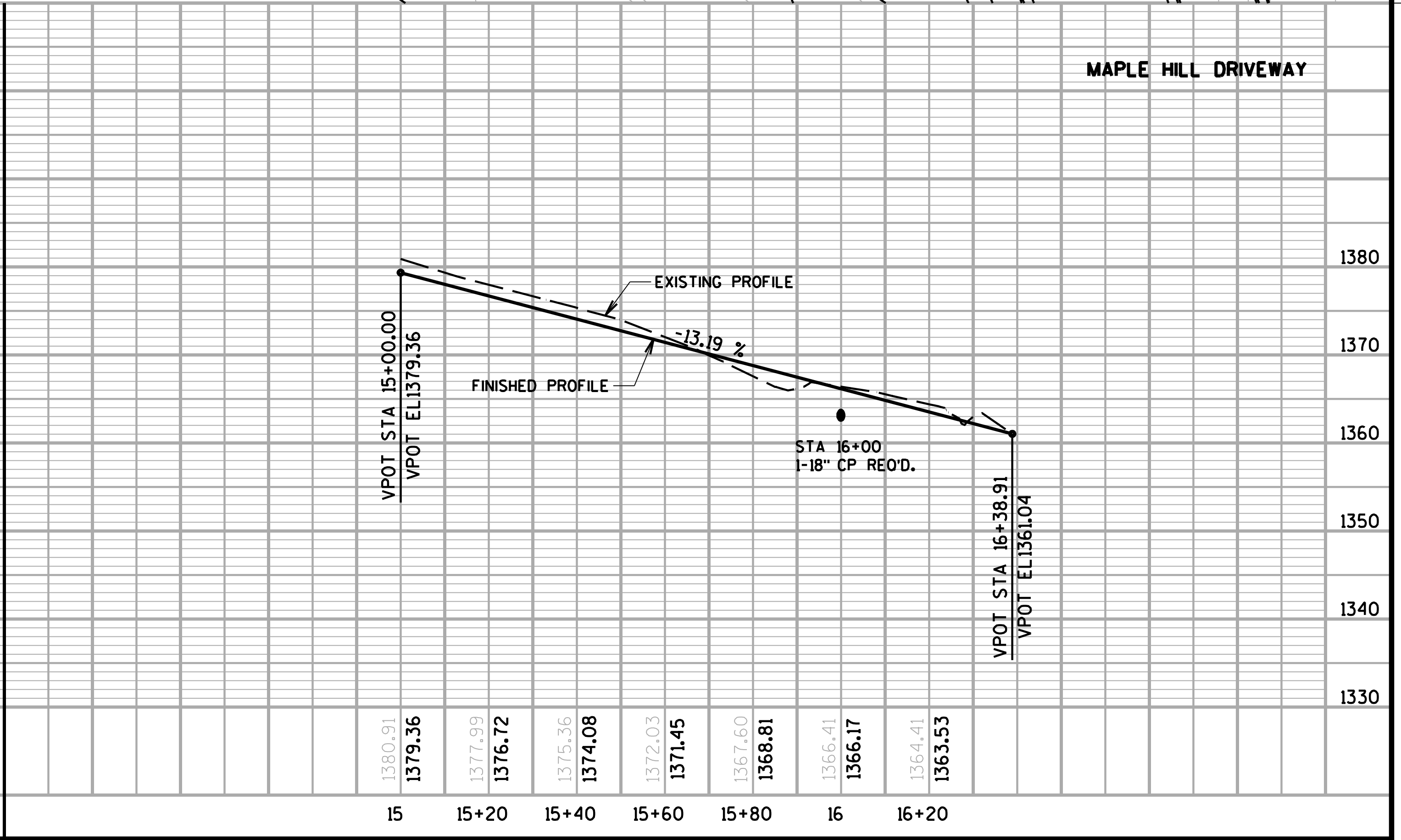


PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	PLAN & PROFILE - CTH U	SHEET	E

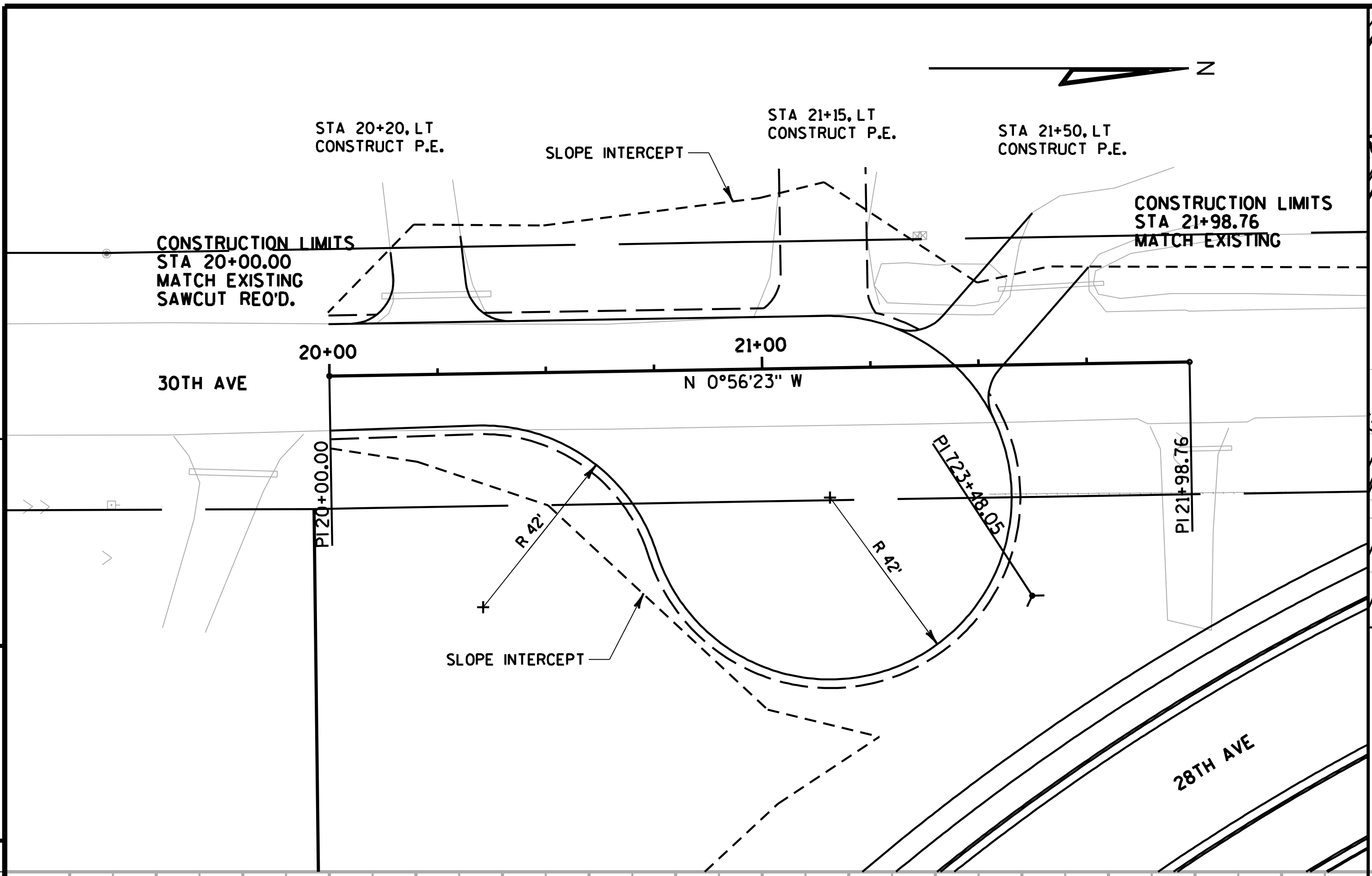
FILE NAME : t:\410537\dgn\050109_pp.dgn PLOT DATE : 2/25/2009 PLOT BY : AYRES-EC PLOT NAME : PLOT SCALE : 1:100

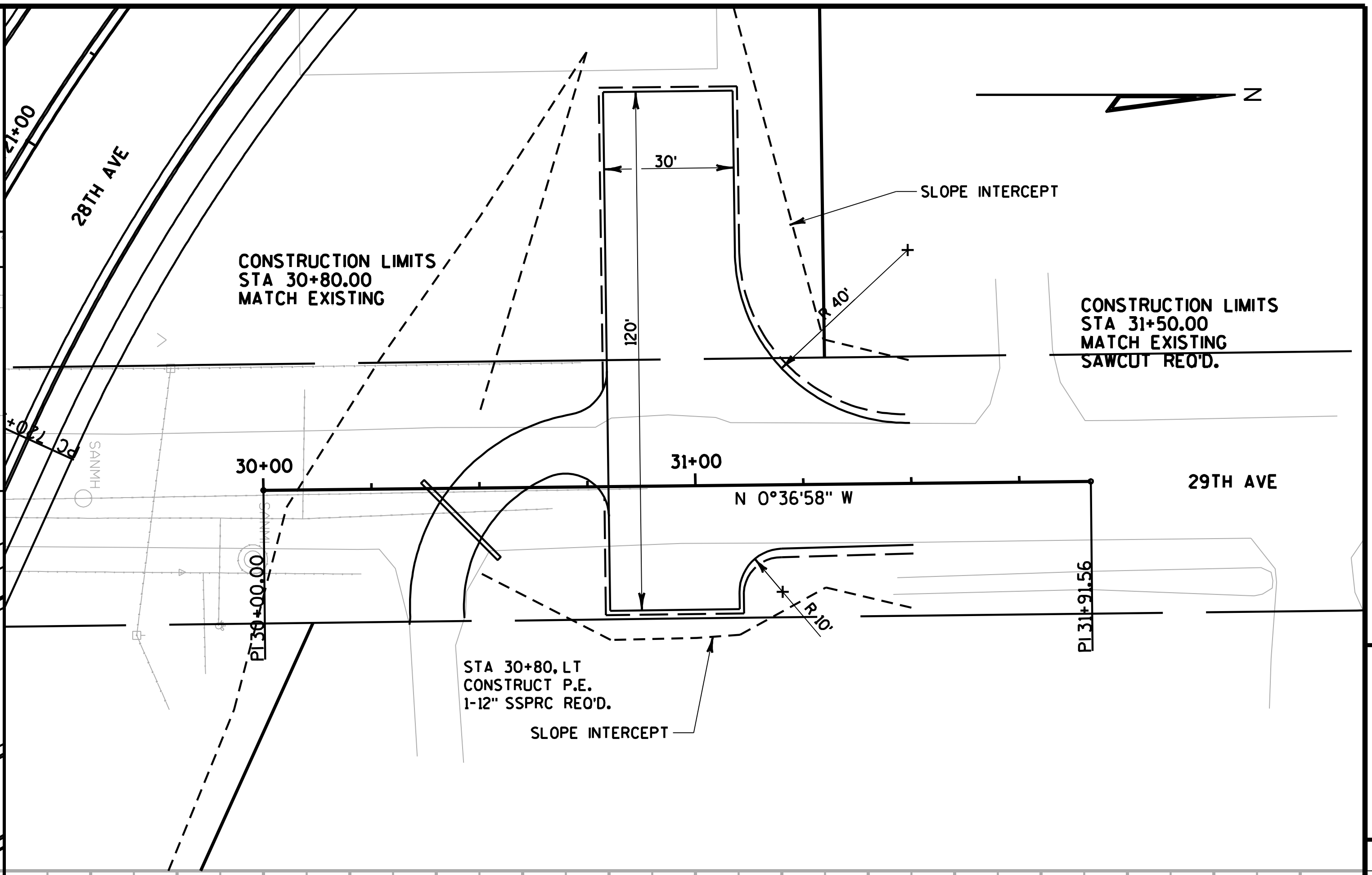






PROJECT NO: | HWY: 28TH AVENUE | COUNTY: MARATHON | PLAN & PROFILE - MAPLE HILL DR CUL-DE-SAC | SHEET | E





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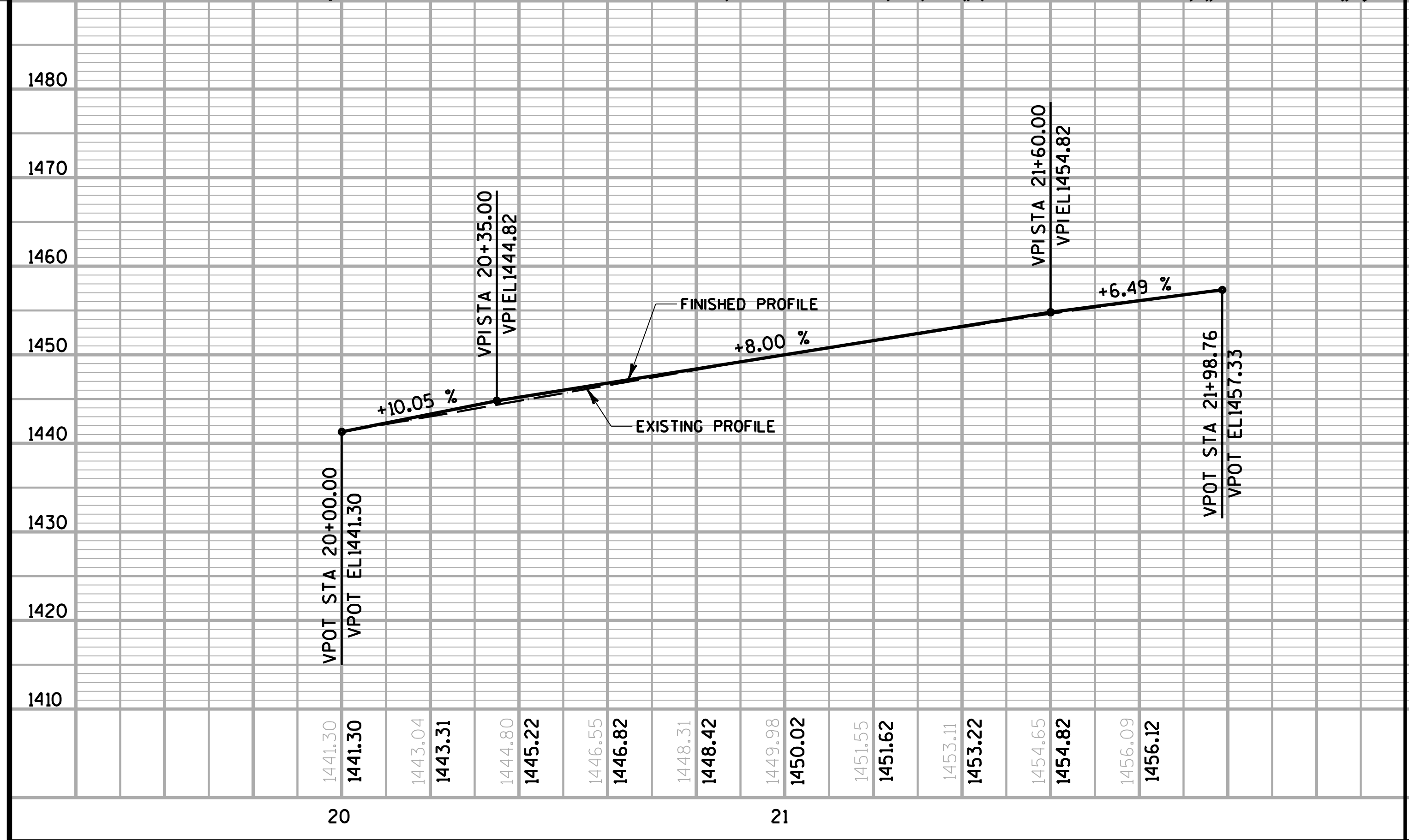
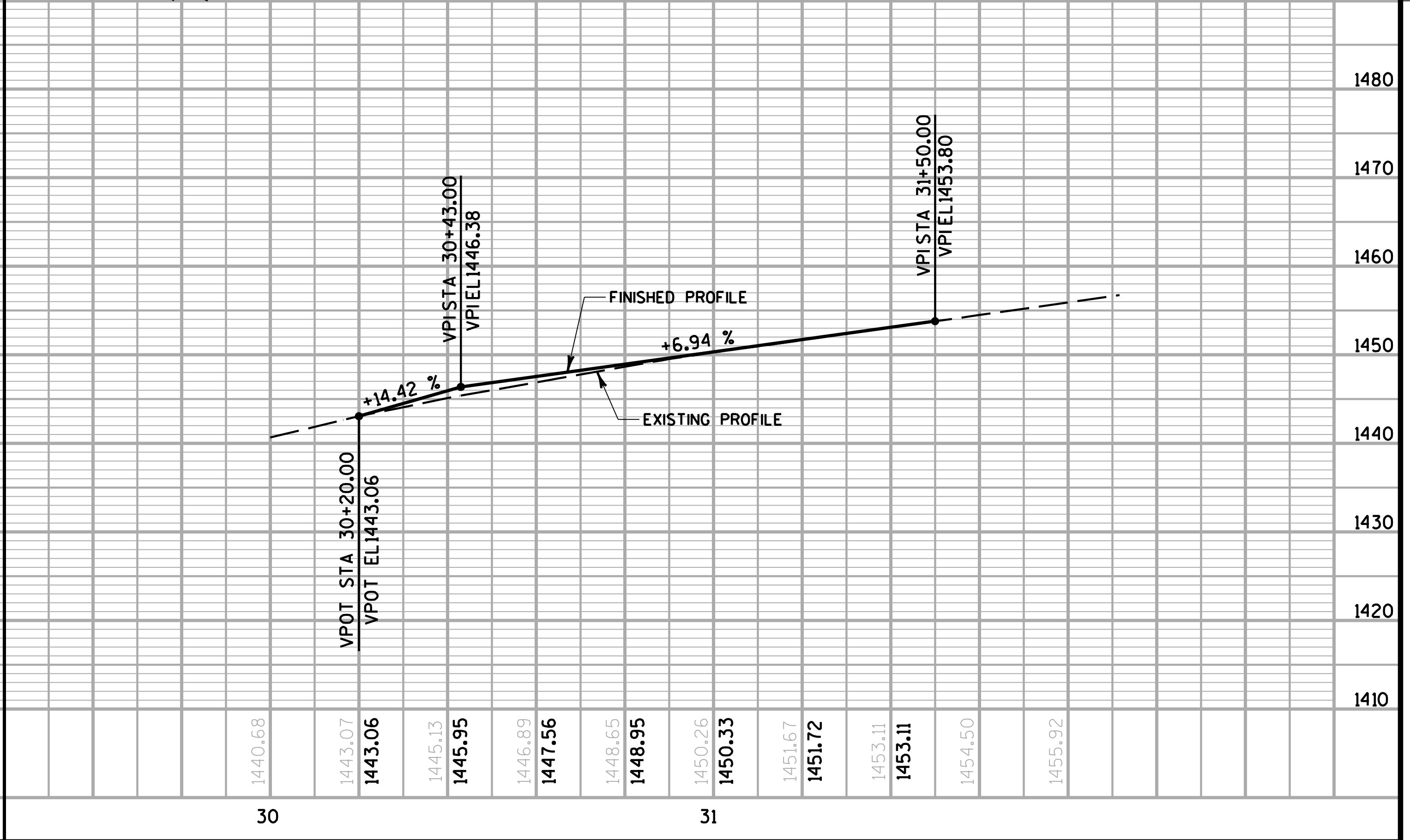
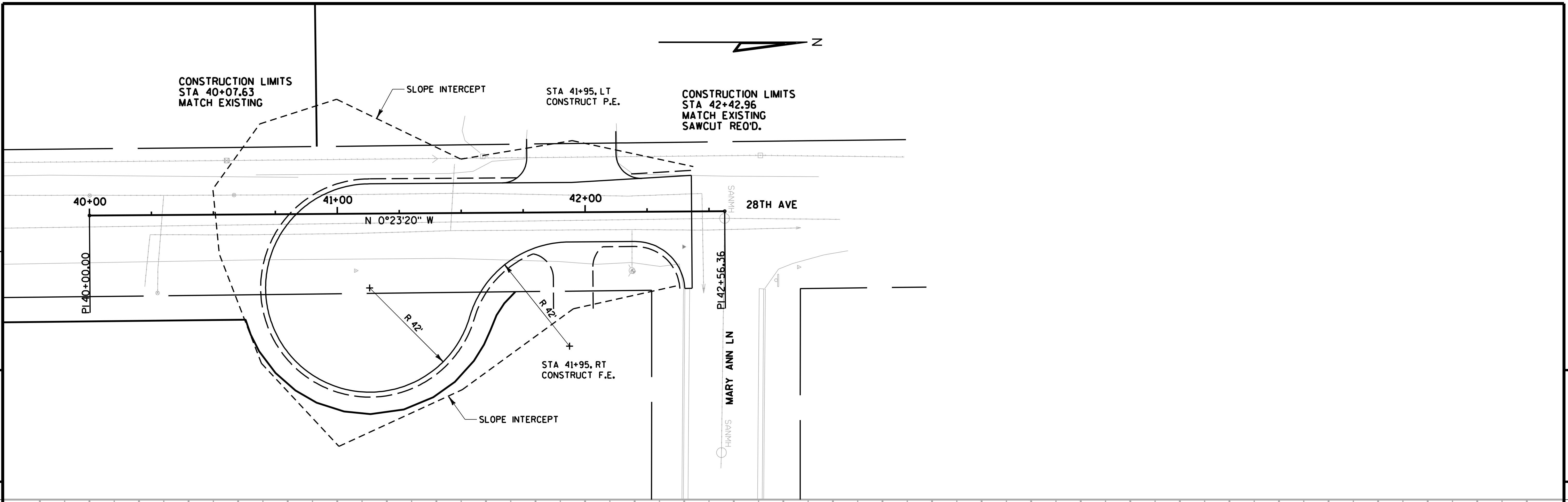
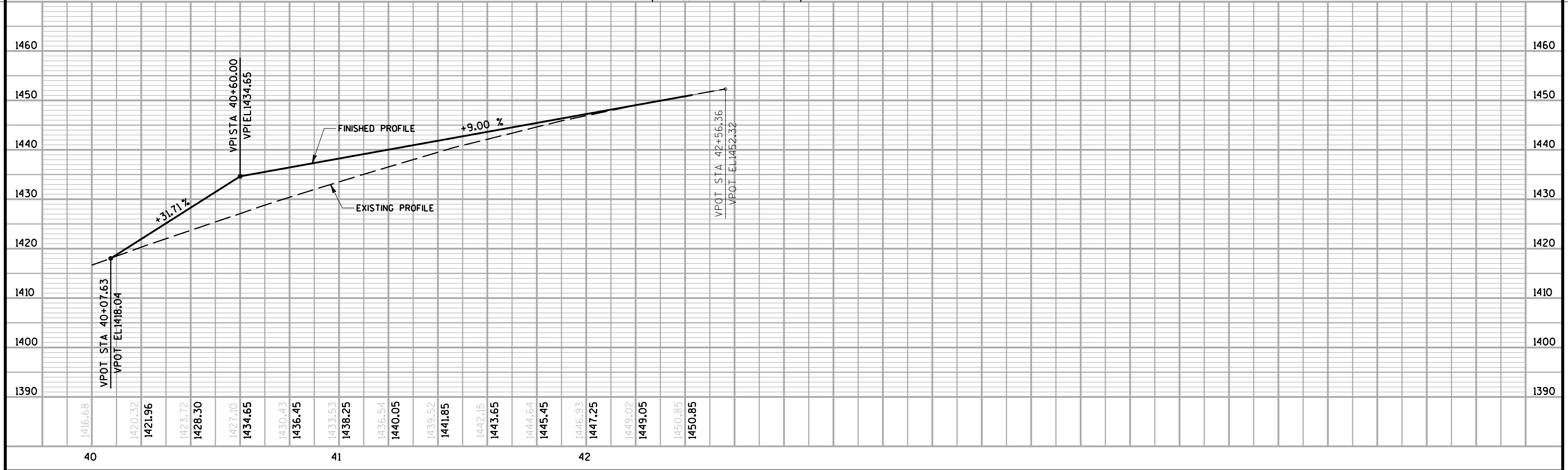




PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	PLAN & PROFILE - 30TH & 29TH AVENUE CUL-DE-SACS	SHEET	E

FILE NAME : t:\410537\dgn\050111_pp.DGN PLOT DATE : 2/25/2009 PLOT BY : AYRES-EC PLOT NAME : PLOT SCALE : 1:40 WISDOT/CADDS SHEET 40





PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	PLAN & PROFILE - 28TH AVENUE SOUTH CUL-DE-SAC	SHEET	E

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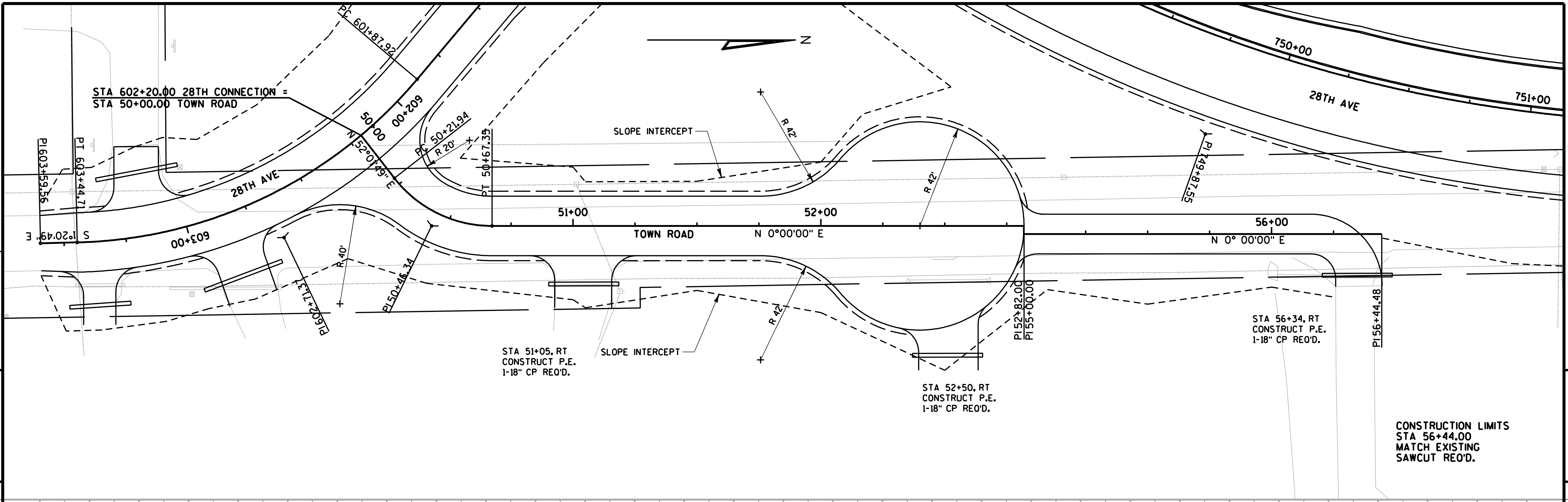
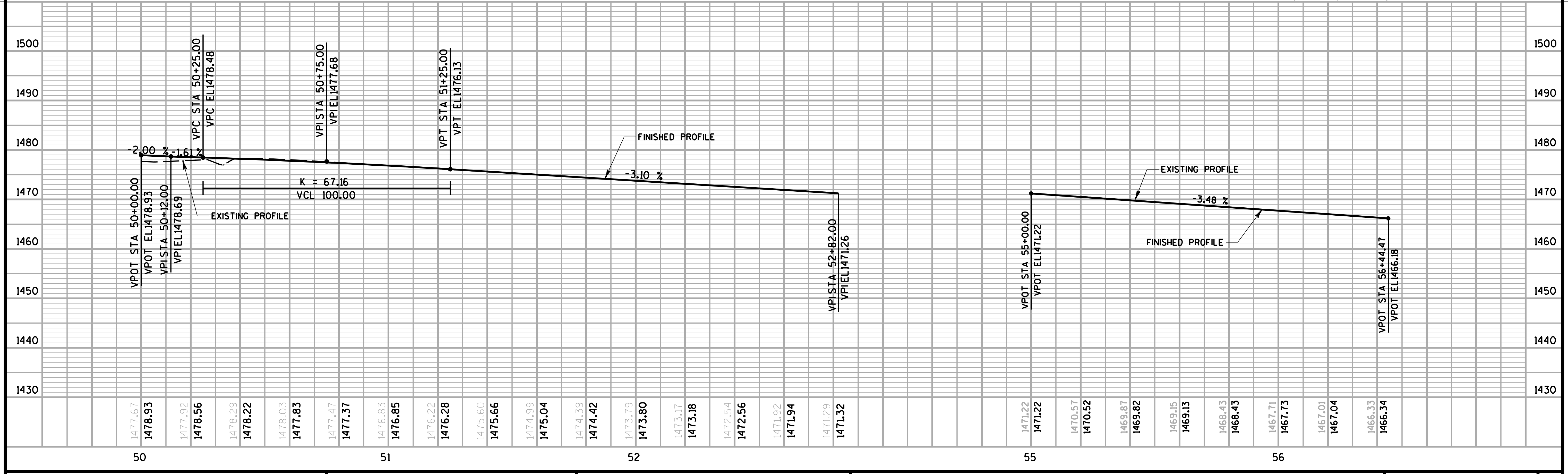


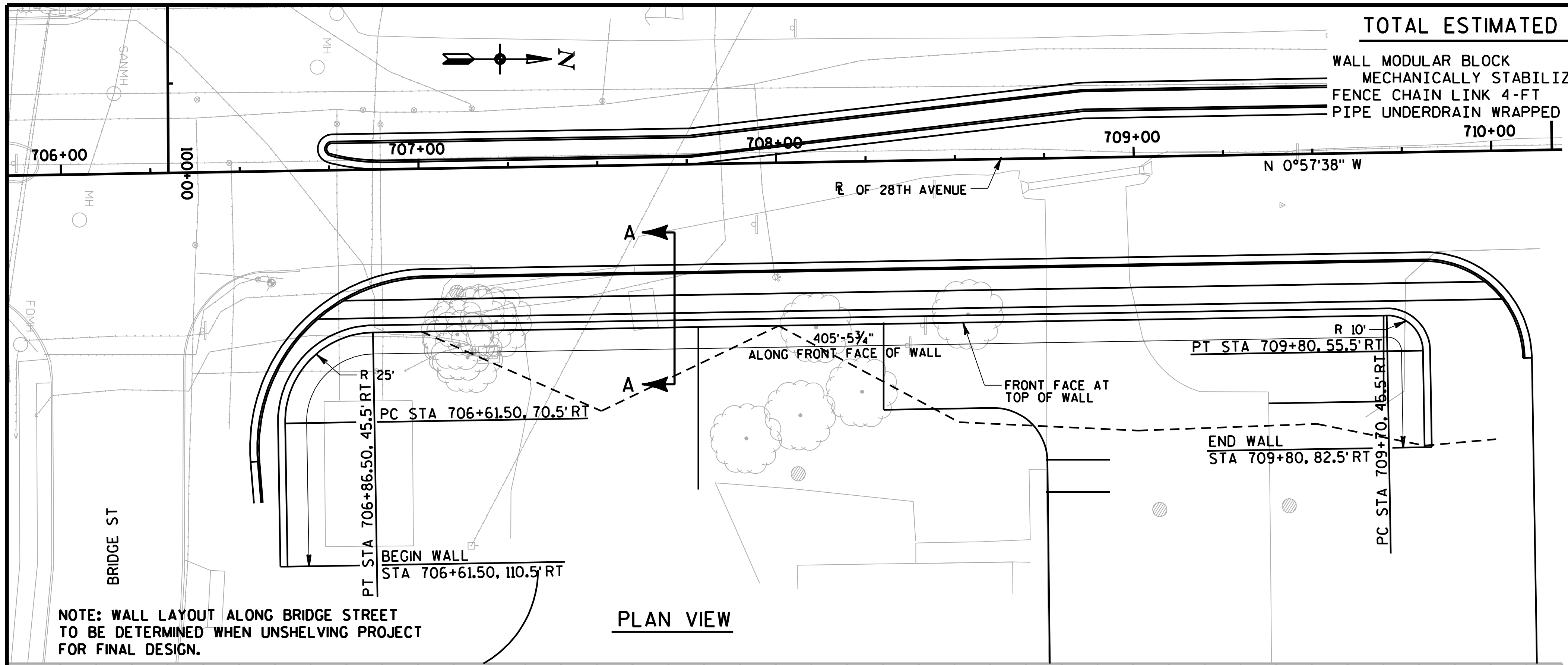


PROJECT NO:	HWY: 28TH AVENUE	COUNTY: MARATHON	PLAN & PROFILE - TOWN ROAD CUL-DE-SAC	SHEET	E

FILE NAME : t:\410537\dgn\050113_pp.dgn PLOT DATE : 2/25/2009 PLOT BY : AYRES-EC PLOT NAME : PLOT SCALE : 1:40

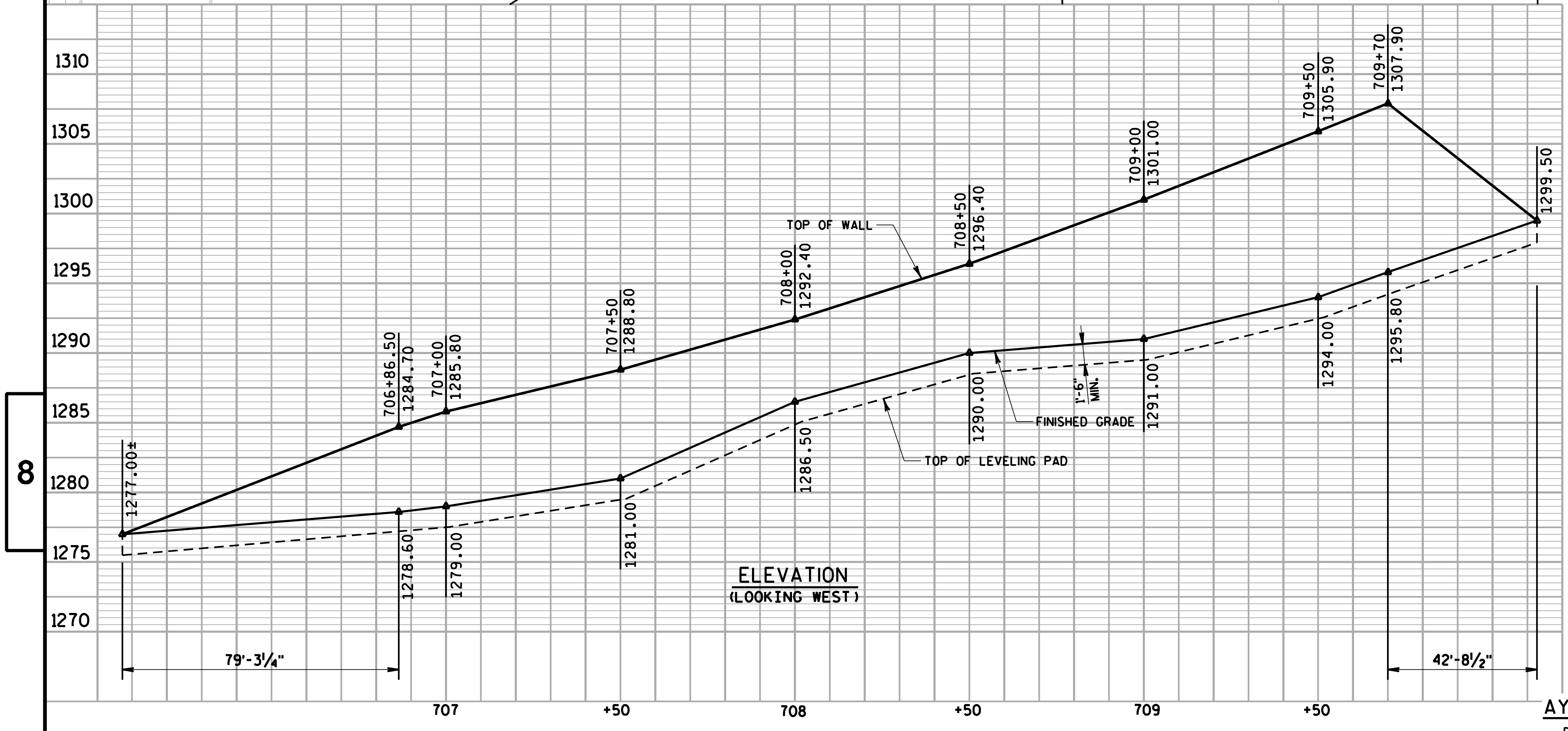
TOTAL ESTIMATED QUANTITIES

WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH	3440	SF
FENCE CHAIN LINK 4-FT	410	LF
PIPE UNDERDRAIN WRAPPED 6-INCH	430	LF

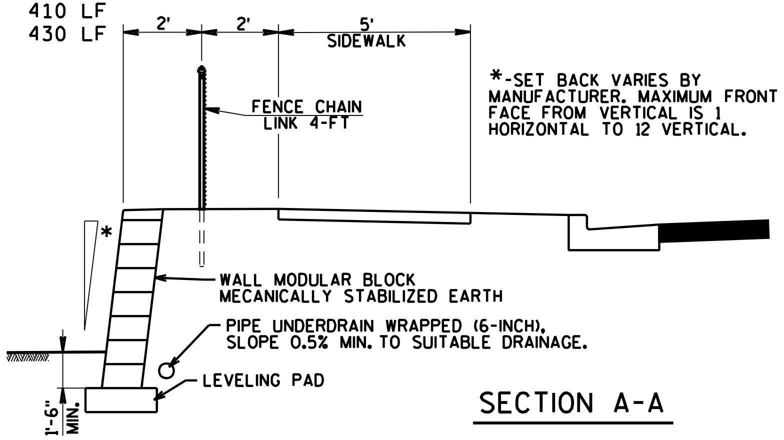


NOTE: WALL LAYOUT ALONG BRIDGE STREET
TO BE DETERMINED WHEN UNSHELVING PROJECT
FOR FINAL DESIGN.

PLAN VIEW



ELEVATION
(LOOKING WEST)



*-SET BACK VARIES BY MANUFACTURER. MAXIMUM FRONT FACE FROM VERTICAL IS 1 HORIZONTAL TO 12 VERTICAL.

SECTION A-A

GENERAL NOTES

WALL PROFILE SHOWS MINIMUM ELEVATION FOR THE TOP OF WALL. THE AREA CALCULATED FOR PAYMENT IS FROM THE MINIMUM TOP OF WALL ELEVATION TO THE TOP OF LEVELING PAD.

DRAWINGS SHALL NOT BE SCALED.

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN PLANS, DETAILS, SPECIFICATIONS AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH".

PLANS, ELEVATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS AND DETAILS COMMON TO ANY WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AND RAILING AS SHOWN.

SOIL PARAMETERS

ALLOWABLE BEARING CAPACITY = 205 TONS/S.F.
ANGLE OF INTERNAL FRICTION = 30 DEGREES
COHESION = 0.0 TONS/S.F.
COEFFICIENT OF SLIDING FRICTION = 0.45

SAFETY FACTORS

SLIDING (FS ≥ 1.5)
OVERTURNING (FS ≥ 2.0)
GLOBAL STABILITY (FS ≥ 1.3)
MINIMUM WALL EMBEDMENT 1'- 6"

PULLOUT (FS ≥ 1.5)
CONNECTION STRENGTH
(FS ≥ 1.5 @ 0.75" DEFORMATION)
OVERALL SAFETY FACTOR (FS ≥ 1.78)

AYRES ASSOCIATES CONTACT:

DANIEL N. SYDOW, P.E.
1-715-834-3161

PROJECT NUMBER	SHEET NO.
- -	

No.	Date	Revision	By

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

STRUCTURE R-37-

CONSTR. SPEC.	2008	Drawn By	CAR	Plans Checked	DNS

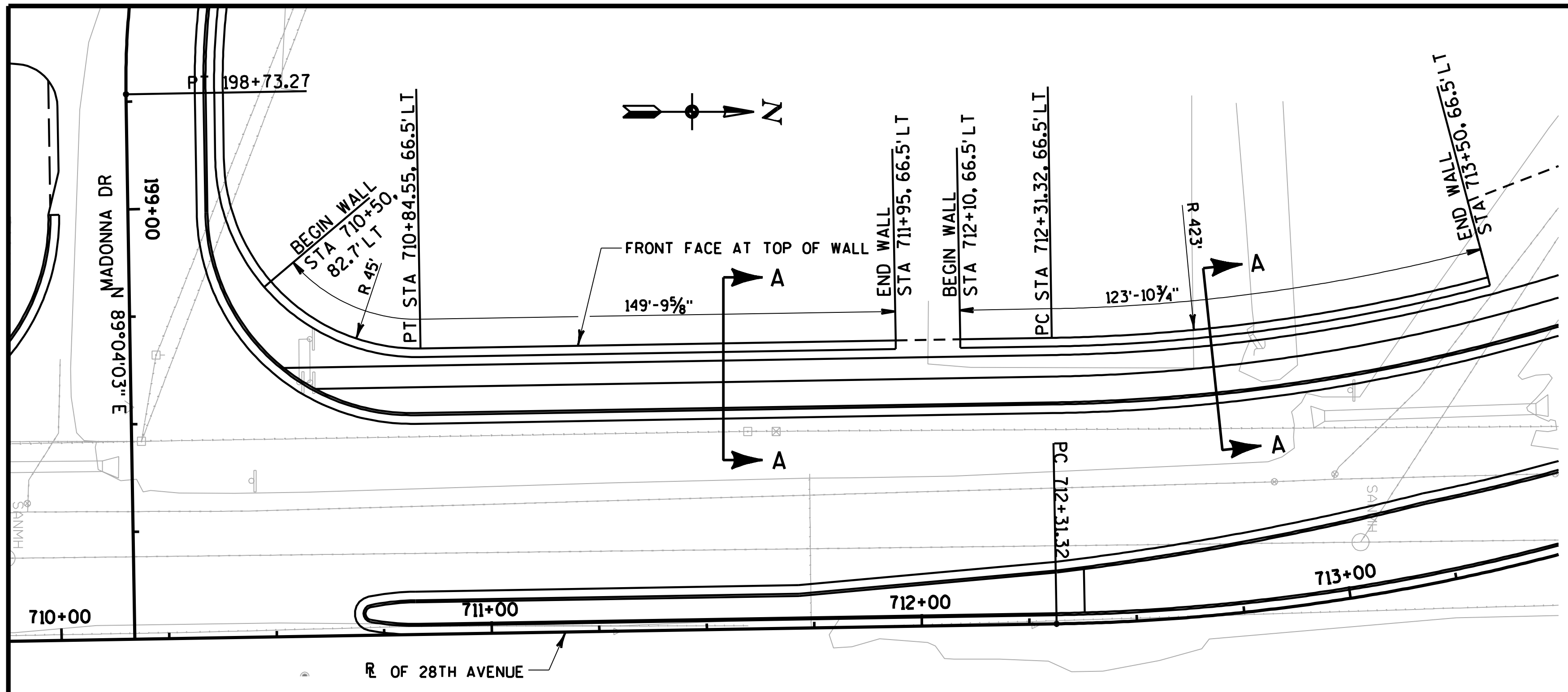
RETAINING
WALL LAYOUT

SHEET 1 OF 1

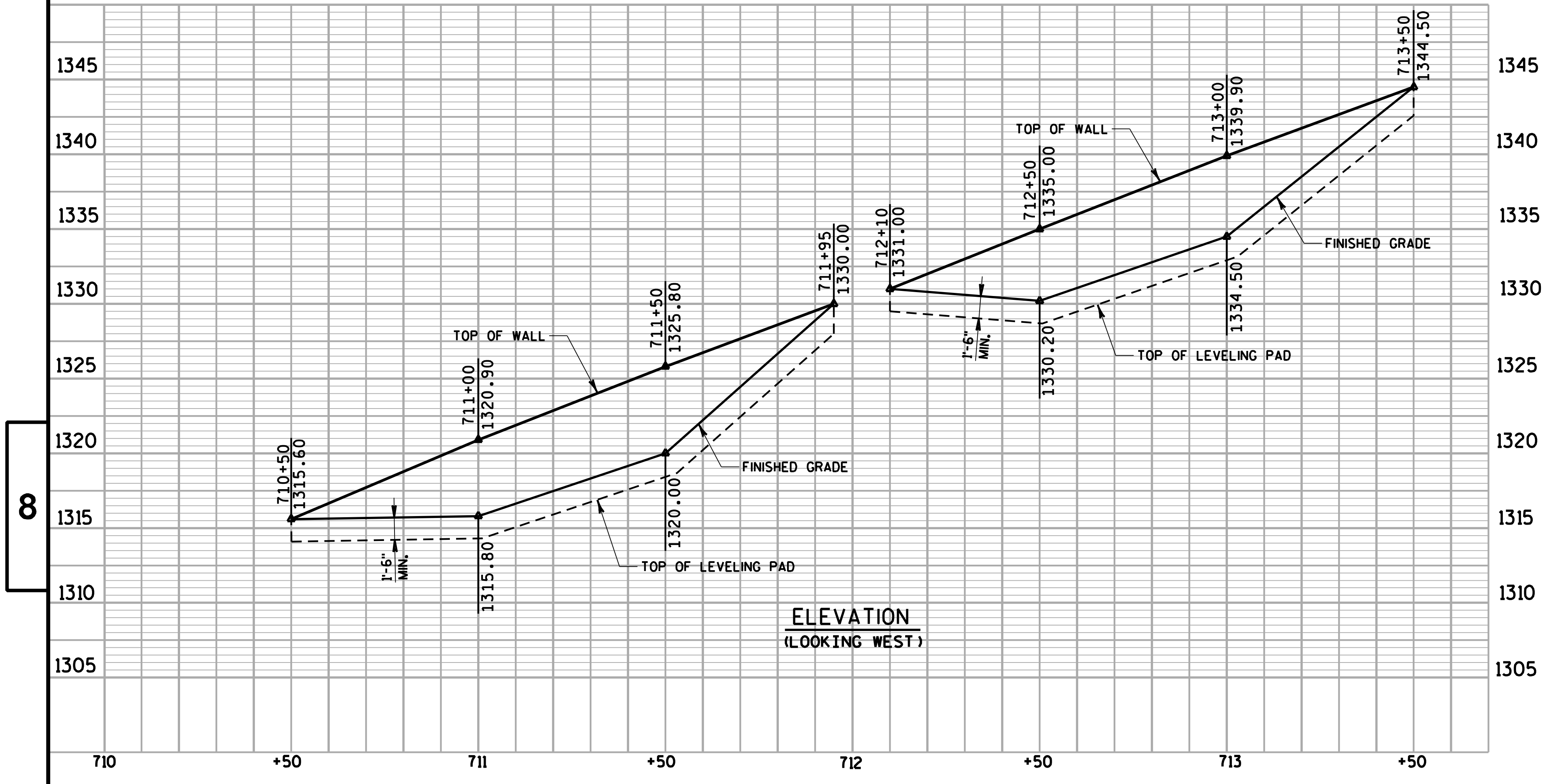
8

8

PROJECT NUMBER	SHEET NO.
- -	



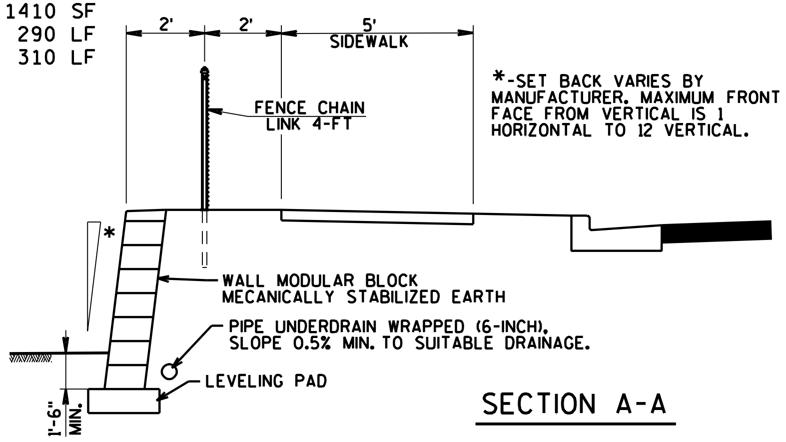
PLAN VIEW



ELEVATION
(LOOKING WEST)

TOTAL ESTIMATED QUANTITIES

WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH	1410	SF
FENCE CHAIN LINK 4-FT	290	LF
PIPE UNDERDRAIN WRAPPED 6-INCH	310	LF



*-SET BACK VARIES BY MANUFACTURER. MAXIMUM FRONT FACE FROM VERTICAL IS 1 HORIZONTAL TO 12 VERTICAL.

SECTION A-A

GENERAL NOTES

WALL PROFILE SHOWS MINIMUM ELEVATION FOR THE TOP OF WALL. THE AREA CALCULATED FOR PAYMENT IS FROM THE MINIMUM TOP OF WALL ELEVATION TO THE TOP OF LEVELING PAD.

DRAWINGS SHALL NOT BE SCALED.

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN PLANS, DETAILS, SPECIFICATIONS AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL MODULAR BLOCK MECHANICALLY STABILIZED EARTH".

PLANS, ELEVATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS AND DETAILS COMMON TO ANY WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AND RAILING AS SHOWN.

SOIL PARAMETERS

ALLOWABLE BEARING CAPACITY = 2.0 TONS/S.F.
ANGLE OF INTERNAL FRICTION = 30 DEGREES
COHESION = 0.0 TONS/S.F.
COEFFICIENT OF SLIDING FRICTION = 0.45

SAFETY FACTORS

SLIDING (FS ≥ 1.5)
OVERTURNING (FS ≥ 2.0)
GLOBAL STABILITY (FS ≥ 1.3)
MINIMUM WALL EMBEDMENT 1'- 6"

PULLOUT (FS ≥ 1.5)
CONNECTION STRENGTH
(FS ≥ 1.5 @ 0.75" DEFORMATION)
OVERALL SAFETY FACTOR (FS ≥ 1.78)

No.	Date	Revision	By

PLANS PREPARED BY
AYRES ASSOCIATES
Engineers/Architects
Scientists/Surveyors
3433 Oakwood Hills Parkway
Eau Claire, WI 54701

STRUCTURE R-37-

CONSTR. SPEC.	2008	Drawn By	CAR	Plans Checked	DNS

SHEET 1 OF 1

RETAINING WALL LAYOUT

AYRES ASSOCIATES CONTACT:

DANIEL N. SYDOW, P.E.
1-715-834-3161

8

EARTHWORK DATA - 28TH AVENUE

STATION	END AREA			VOLUME			MASS HAUL
	COMMON SF	ROCK SF	FILL SF	COMMON CY	ROCK 1.1 ADJ.	FILL 1.25 ADJ.	
700+00.00	0	0	0	0.00	0.00	0.00	0.00
700+50.00	0	0	0	0.00	0.00	0.00	0.00
701+00.00	0	0	0	0.00	0.00	0.00	0.00
701+50.00	0	0	0	0.00	0.00	0.00	0.00
702+00.00	0	0	0	0.00	0.00	0.00	0.00
702+50.00	0	0	0	0.00	0.00	0.00	0.00
703+00.00	0	0	0	0.00	0.00	0.00	0.00
703+50.00	236.71	0	219.56	219.18	0.00	254.12	-34.94
704+00.00	162.81	0	274.96	369.93	0.00	572.36	-237.38
704+50.00	24.8	0	250.8	173.71	0.00	608.52	-672.19
705+00.00	6.1	0	315.86	28.61	0.00	655.86	-1299.43
705+50.00	0.1	0	359.59	5.74	0.00	781.77	-2075.46
706+00.00	0	0	128.35	0.09	0.00	564.75	-2640.11
706+50.00	0	0	129.87	0.00	0.00	298.87	-2938.98
707+00.00	9.6	0	159.16	8.89	0.00	334.53	-3264.62
707+50.00	69.11	0	103.11	72.88	0.00	303.55	-3495.29
708+00.00	23.5	0	122.98	85.75	0.00	261.68	-3671.22
708+50.00	32.8	0	127.84	52.13	0.00	290.30	-3909.39
709+00.00	45	0	212.32	72.04	0.00	393.70	-4231.06
709+50.00	57	0	337.74	94.44	0.00	636.64	-4773.25
709+80.00	100.6	0	432.83	87.56	0.00	535.12	-5220.82
710+00.00	0	0	515.57	37.26	0.00	439.07	-5622.63
710+22.40	0	0	1032.54	0.00	0.00	802.72	-6425.36
710+50.00	36.81	0	551.32	18.81	0.00	1011.91	-7418.45
711+00.00	0	0	602.73	34.08	0.00	1335.71	-8720.07
711+50.00	0	0	579.22	0.00	0.00	1368.00	-10088.07
712+00.00	12.1	0	435.05	11.20	0.00	1173.92	-11250.79
712+50.00	0.2	0	354.44	11.39	0.00	913.76	-12153.17
713+00.00	62.9	0	249.62	58.43	0.00	699.14	-12793.88
713+50.00	266.61	0	79.6	305.10	0.00	381.04	-12869.82
714+00.00	343.07	186.71	125.17	564.52	190.17	237.00	-12542.31
714+50.00	288.43	482.12	250.03	584.72	681.22	434.26	-12391.84
715+00.00	417.88	517.35	119.51	653.99	1017.98	427.71	-12165.56
715+50.00	738.04	555.7	45.3	1070.30	1092.92	190.75	-11286.02
716+00.00	822.86	709.31	5.9	1445.28	1288.44	59.26	-9900.00
716+50.00	982.54	643.74	10.16	1671.67	1378.11	18.59	-8246.92
717+00.00	899.4	542.87	89.84	1742.54	1208.58	115.74	-6620.12
717+45.00	710.78	469.26	71.08	1341.82	927.79	167.63	-5445.93
718+00.00	511.89	569.69	17.43	1245.31	1164.01	112.69	-4313.31
718+50.00	918.48	853.52	0	1324.42	1449.57	20.17	-3009.06
719+00.00	773.93	1101.52	0	1567.05	1991.24	0.00	-1442.02
719+50.00	1193.73	1011.25	0	1821.91	2151.90	0.00	379.89
720+00.00	1306.14	1084.38	0	2314.69	2134.44	0.00	2694.59
720+50.00	1065.67	1269.62	0	2196.12	2397.59	0.00	4890.71
721+00.00	1190.41	1469.31	0	2088.96	2789.65	0.00	6979.67
721+50.00	1234.69	1574.71	0	2245.46	3100.39	0.00	9225.13
722+00.00	1146.23	1525.77	0	2204.56	3157.90	0.00	11429.69
722+50.00	1147.8	1434.54	0	2124.10	3015.13	0.00	13553.79
723+00.00	1045.62	1291.46	0	2030.94	2776.48	0.00	15584.73
723+50.00	1336.73	1061.02	0	2205.88	2396.04	0.00	17790.61
724+00.00	1451.13	843.08	0	2581.35	1939.36	0.00	20371.96
724+50.00	1554.16	688.63	0	2782.68	1560.08	0.00	23154.64
725+00.00	1171.08	551.62	0	2523.37	1263.22	0.00	25678.01
725+50.00	1166.83	367.93	0	2164.73	936.58	0.00	27842.74
726+00.00	1205.15	219.34	0	2196.28	598.15	0.00	30039.02
726+50.00	1121.85	108.1	0	2154.63	333.50	0.00	32193.65

EARTHWORK DATA - 28TH AVENUE

STATION	END AREA			VOLUME			MASS HAUL
	COMMON SF	ROCK SF	FILL SF	COMMON CY	ROCK 1.1 ADJ.	FILL 1.25 ADJ.	
727+00.00	1042.82	5.37	0	2004.32	115.57	0.00	34197.97
727+50.00	858.14	0	0	1760.15	5.47	0.00	35958.12
728+00.00	714	0	0	1455.69	0.00	0.00	37413.81
728+50.00	481.89	0	0	1107.31	0.00	0.00	38521.11
729+00.00	308.74	0	12.86	732.06	0.00	14.88	39238.29
729+50.00	171.41	0	0	444.58	0.00	14.88	39667.99
730+00.00	54.32	0	0	209.01	0.00	0.00	39877.00
730+50.00	0.65	0	213.6	50.90	0.00	247.22	39680.68
731+00.00	0	0	319.88	0.60	0.00	617.45	39063.83
731+50.00	0	0	362.05	0.00	0.00	789.27	38274.55
732+00.00	0	0	397.82	0.00	0.00	879.48	37395.08
732+50.00	0	0	387.81	0.00	0.00	909.29	36485.78
733+00.00	0	0	349.32	0.00	0.00	853.16	35632.62
733+50.00	0	0	311.89	0.00	0.00	765.29	34867.33
734+00.00	0	0	210.2	0.00	0.00	604.27	34263.06
734+50.00	0	0	166.77	0.00	0.00	436.31	33826.75
735+00.00	2.58	0	134.21	2.39	0.00	348.36	33480.79
735+50.00	24.29	0	91.17	24.88	0.00	260.86	33244.81
736+00.00	81.66	0	100.73	98.10	0.00	222.11	33120.80
736+50.00	111.92	0	87.45	179.24	0.00	217.80	33082.24
737+00.00	152.7	0	76.19	245.02	0.00	189.40	33137.87
737+50.00	168.1	0	68.63	297.04	0.00	167.62	33267.29
738+00.00	143.23	0	86.03	288.27	0.00	179.00	33376.55
738+50.00	95.57	0	114.38	221.11	0.00	231.96	33365.71
739+00.00	80.04	0	159.02	162.60	0.00	316.44	33211.87
739+50.00	18.01	0	174.72	90.79	0.00	386.27	32916.39
740+00.00	1.48	0	299.72	18.05	0.00	549.12	32385.31
740+50.00	0	0	394.66	1.37	0.00	803.68	31583.00
741+00.00	0	0	370.08	0.00	0.00	885.12	30697.89
741+50.00	1.4	0	333.09	1.30	0.00	813.85	29885.33
742+00.00	1.93	0	212.39	3.08	0.00	631.34	29257.07
742+50.00	3.14	0	240.58	4.69	0.00	524.27	28737.49
743+00.00	4.25	0	204.76	6.84	0.00	515.44	28228.90
743+50.00	34.82	0	153.23	36.18	0.00	414.34	27850.73
744+00.00	123.38	0	124.06	146.48	0.00	320.94	27676.27
744+50.00	149	0	102.85	252.20	0.00	262.63	27665.85
745+00.00	159.36	0	80.88	285.52	0.00	212.65	27738.72
745+50.00	168.25	0	74.46	303.34	0.00	179.79	27862.27
746+00.00	166.11	0	71.82	309.59	0.00	169.31	28002.56
746+50.00	138.01	0	74.65	281.59	0.00	169.53	28114.62
747+00.00	51.57	0	30.88	175.54	0.00	122.14	28168.02
747+50.00	140.81	0	20.98	178.13	0.00	60.02	28286.13
748+00.00	195.66	0	9.35	311.55	0.00	35.10	28562.57
749+00.00	370.86	0	1.02	1049.11	0.00	24.00	29587.68
750+00.00	376.45	0	4.33	1383.91	0.00	12.38	30959.20
751+00.00	534.33	0	0.03	1686.63	0.00	10.09	32635.74
752+00.00	427.23	0	1.29	1780.67	0.00	3.06	34413.35
753+00.00	358.16	0	10.52	1454.43	0.00	27.34	35840.43
754+00.00	369.25	0	7	1347.06	0.00	40.56	37146.93
755+00.00	457.25	0	0	1530.56	0.00	16.20	38661.29
756+00.00	409.05	0	6.2	1604.26	0.00	14.35	40251.19
756+83.00	308.98	0	3.98	1103.64	0.00	19.56	41335.27
757+00.00	365.33	0	0.06	212.28	0.00	1.59	41545.97
758+00.00	404.74	0	6.89	1426.06	0.00	16.09	42955.93
758+80.00	524.42	0	2.6	1376.53	0.00	17.57	44314.89
759+00.00	512.93	0	0	384.20	0.00	1.20	44697.89

EARTHWORK DATA - 28TH AVENUE

STATION	END AREA			VOLUME			MASS HAUL
	COMMON	ROCK	FILL	COMMON	ROCK	FILL	
	SF	SF	SF	CY	1.1	1.25	
					ADJ.	ADJ.	
760+00.00	635.8	0	0.16	2127.28	0.00	0.37	46824.80
761+00.00	740.87	0	0	2549.39	0.00	0.37	49373.82
762+00.00	808.91	0	0	2869.96	0.00	0.00	52243.78
762+96.00	1006.7	0	0	3227.75	0.00	0.00	55471.53
763+00.00	1126.49	0	0	158.01	0.00	0.00	55629.55
764+00.00	1240.38	0	0	4383.09	0.00	0.00	60012.64
765+00.00	1005.23	0	0	4158.54	0.00	0.00	64171.18
766+00.00	709.69	0	0	3175.78	0.00	0.00	67346.96
767+00.00	169.14	0	16.41	1627.46	0.00	37.99	68936.43
767+83.00	81.54	0	87.27	385.30	0.00	199.20	69122.54
768+00.00	61.79	0	64.93	45.12	0.00	59.89	69107.77
769+00.00	235.41	0	1.85	550.37	0.00	154.58	69503.55
769+09.00	243.64	0	0	79.84	0.00	0.39	69583.01
769+88.00	346.42	0	11.41	863.24	0.00	20.87	70425.38
770+00.00	310.7	0	11.78	146.03	0.00	6.44	70564.96
771+00.00	423.67	0	5.44	1359.94	0.00	39.86	71885.05
772+00.00	358.63	0	10.93	1448.70	0.00	37.89	73295.86
773+00.00	360.73	0	10.79	1332.15	0.00	50.28	74577.73
774+00.00	313.17	0	11.97	1247.96	0.00	52.69	75773.01
775+00.00	228.57	0	20.82	1003.22	0.00	75.90	76700.33
775+25.00	237.29	0	53.14	215.68	0.00	42.80	76873.20
776+00.00	144.34	0	33.11	530.04	0.00	149.74	77253.50
777+00.00	97.5	0	95.02	447.85	0.00	296.60	77404.76
778+00.00	90.71	0	114.61	348.54	0.00	485.25	77268.04
779+00.00	100.07	0	131.64	353.30	0.00	570.02	77051.31
779+50.00	104.33	0	152.92	189.26	0.00	329.35	76911.22
780+00.00	116.19	0	140.14	204.19	0.00	339.19	76776.22
781+00.00	141.12	0	111.75	476.50	0.00	583.08	76669.64
781+90.00	176.14	0	44.31	528.77	0.00	325.13	76873.28
782+00.00	243.57	0	39.91	77.72	0.00	19.50	76931.51
783+00.00	291.76	0	32.13	991.35	0.00	166.76	77756.10
784+00.00	286.08	0	49.68	1070.07	0.00	189.38	78636.80
785+00.00	0	0	0	529.78	0.00	115.00	79051.58
786+00.00	452.67	0	0	838.28	0.00	0.00	79889.85
787+00.00	477.54	0	0	1722.61	0.00	0.00	81612.47
788+00.00	383.67	0	0	1594.83	0.00	0.00	83207.30
789+00.00	226.26	0	0.89	1129.50	0.00	2.06	84334.74

EARTHWORK DATA - WESTHILL DRIVE

STATION	END AREA		VOLUME		MASS HAUL
	COMMON	FILL	COMMON	FILL	
	SF	SF	CY	1.25	
				ADJ.	
98+00.00	32.03	5.72	0.00	0.00	0.00
98+02.00	29.87	1.04	2.29	0.31	1.98
98+50.00	7.05	13.32	32.82	15.96	18.84
99+00.00	0.00	85.85	6.53	114.78	-89.41
99+50.00	0.00	242.76	0.00	380.34	-469.75
100+00.00	0.00	0.00	0.00	280.97	-750.72

EARTHWORK DATA - MADONNA DRIVE

STATION	END AREA		VOLUME		MASS HAUL
	COMMON	FILL	COMMON	FILL	
	SF	SF	CY	1.25	
				ADJ.	
195+00.00	0.00	0.00	0.00	0.00	0.00
195+50.00	0.00	0.00	0.00	0.00	0.00
196+00.00	0.00	0.00	0.00	0.00	0.00
196+50.00	0.00	0.00	0.00	0.00	0.00
197+00.00	66.63	0.00	61.69	0.00	61.69
197+50.00	62.45	1.85	119.52	2.14	179.07
197+54.00	64.24	2.51	9.38	0.40	188.05
198+00.00	13.18	8.57	65.95	11.80	242.20
198+08.00	37.18	25.06	7.46	6.23	243.44
198+45.00	54.25	81.61	62.65	91.36	214.72
198+50.00	25.53	62.48	7.39	16.68	205.43
199+00.00	19.16	137.64	41.38	231.62	15.19
199+50.00	0.00	171.37	17.74	357.65	-324.72

EARTHWORK DATA - WEST WAUSAU AVENUE

STATION	END AREA		VOLUME		MASS HAUL
	COMMON SF	FILL SF	COMMON CY	FILL 1.25 ADJ.	
294+00.00	92.84	6.57	0.00	0.00	0.00
294+50.00	99.06	0.64	177.69	8.34	169.34
294+89.00	84.95	0.12	132.90	0.69	301.55
295+00.00	96.23	1.21	36.91	0.34	338.12
295+50.00	106.27	0.61	187.50	2.11	523.51
296+00.00	121.45	0.10	210.85	0.82	733.54
296+50.00	131.69	0.27	234.39	0.43	967.50
296+75.00	113.86	0.95	113.68	0.71	1080.48
297+00.00	123.38	0.33	109.83	0.74	1189.57
297+50.00	134.09	0.13	238.40	0.53	1427.44
298+00.00	143.82	0.25	257.32	0.44	1684.32
298+50.00	175.82	0.05	295.96	0.35	1979.94
299+00.00	179.55	1.45	329.05	1.74	2307.25
299+50.00	122.08	0.00	279.29	1.68	2584.85
300+00.00	0.00	0.00	113.04	0.00	2697.89
300+50.00	97.83	17.36	90.58	20.09	2768.38
301+00.00	134.11	6.55	214.76	27.67	2955.47
301+50.00	173.94	0.39	285.23	8.03	3232.67
301+60.00	164.33	0.07	62.64	0.11	3295.20
302+00.00	210.45	0.00	277.61	0.06	3572.75
302+50.00	223.52	0.00	401.82	0.00	3974.58
303+00.00	215.72	0.03	406.70	0.03	4381.25
303+09.00	187.44	0.01	67.19	0.01	4448.43
303+50.00	127.72	0.00	239.29	0.01	4687.71
304+00.00	141.00	2.84	248.81	3.29	4933.24
304+17.00	116.99	0.64	81.22	1.37	5013.09
304+50.00	108.01	0.50	137.50	0.87	5149.72
304+84.00	83.02	0.00	120.28	0.39	5269.60
305+00.00	93.07	0.39	52.17	0.14	5321.63
305+44.00	78.87	1.21	140.10	1.63	5460.10
305+50.00	72.37	4.81	16.80	0.84	5476.07
306+00.00	93.25	1.39	153.35	7.18	5622.25
306+07.00	80.25	1.50	22.49	0.47	5644.27

EARTHWORK DATA - APPLE LANE

STATION	END AREA		VOLUME		MASS HAUL
	COMMON SF	FILL SF	COMMON CY	FILL 1.25 ADJ.	
396+00.00	0.00	0.00	0.00	0.00	0.00
396+50.00	47.33	8.46	43.82	9.79	34.03
397+00.00	36.23	7.27	77.37	18.21	93.20
397+50.00	14.22	15.54	46.71	26.40	113.51
397+85.00	3.69	46.57	11.61	50.32	74.80
398+00.00	2.26	61.29	1.65	37.45	39.00
398+50.00	2.49	230.05	4.40	337.20	-293.80
399+00.00	4.27	347.11	6.26	668.01	-955.55
399+50.00	0.00	175.08	3.95	604.39	-1555.99

EARTHWORK DATA - 28TH AVENUE CONNECTION

STATION	END AREA		VOLUME		MASS HAUL
	COMMON SF	FILL SF	COMMON CY	FILL 1.25 ADJ.	
600+00.00	0.00	0.00	0.00	0.00	0.00
600+50.00	50.64	1.07	46.89	1.24	45.65
601+00.00	124.02	0.00	161.72	1.24	206.13
601+50.00	101.46	0.00	208.78	0.00	414.91
602+00.00	56.60	0.59	146.35	0.68	560.58
602+50.00	60.19	3.54	108.14	4.78	663.94
602+84.00	67.08	3.83	80.13	5.80	738.27
603+00.00	80.04	0.00	43.59	1.42	780.44
603+15.00	92.82	0.00	48.02	0.00	828.46
603+37.00	66.14	1.03	64.76	0.52	892.70
603+50.00	43.45	3.63	26.38	1.40	917.68

EARTHWORK DATA - CTH U

STATION	END AREA		VOLUME		MASS HAUL
	COMMON SF	FILL SF	COMMON CY	FILL 1.25 ADJ.	
896+00.00	0.00	0.00	0.00	0.00	0.00
896+50.00	120.92	19.64	111.96	22.73	89.23
897+00.00	141.07	32.68	242.58	60.56	271.26
897+50.00	145.26	41.01	265.12	85.29	451.09
898+00.00	146.64	39.96	270.28	93.72	627.65
898+50.00	171.08	44.56	294.19	97.82	824.01
899+00.00	201.85	53.91	345.31	113.97	1055.35
899+50.00	224.96	1.67	395.19	64.33	1386.22
900+00.00	145.30	0.00	342.83	1.93	1727.12
900+50.00	289.81	19.75	402.88	22.86	2107.14
901+00.00	258.54	7.85	507.73	31.94	2582.92
901+50.00	219.76	13.98	442.87	25.27	3000.53
901+65.00	230.32	25.63	125.02	13.75	3111.80
902+00.00	196.11	19.71	276.39	36.73	3351.45
902+50.00	165.11	29.41	334.46	56.85	3629.06
903+00.00	144.48	28.74	286.66	67.30	3848.42
903+50.00	0.00	0.00	133.78	33.26	3948.93

EARTHWORK DATA - MAPLE HILL DRIVE

STATION	END AREA		VOLUME		MASS HAUL
	COMMON SF	FILL SF	COMMON CY	FILL 1.25 ADJ.	
10+00.00	38.61	4.33	0.00	0.00	0.00
10+25.00	130.89	0.00	78.47	2.51	75.97
10+50.00	241.76	1.52	172.52	0.88	247.61
10+75.00	506.84	3.59	346.57	2.96	591.23
11+00.00	612.37	3.15	518.15	3.90	1105.48
11+25.00	398.11	4.06	467.81	4.17	1569.12

EARTHWORK DATA - MAPLE HILL DRIVEWAY

STATION	END AREA		VOLUME		MASS HAUL
	COMMON SF	FILL SF	COMMON CY	FILL 1.25 ADJ.	
15+00.00	211.43	0.00	0.00	0.00	0.00
15+25.00	203.84	0.30	192.25	0.17	192.08
15+50.00	178.55	0.20	177.03	0.29	368.82
15+75.00	68.84	0.10	114.53	0.17	483.18
16+00.00	121.20	34.92	87.98	20.27	550.90
16+25.00	115.86	1.37	109.75	21.00	639.65

EARTHWORK DATA - 30TH AVENUE SOUTH CUL-DE-SAC

STATION	END AREA		VOLUME		MASS HAUL
	COMMON SF	FILL SF	COMMON CY	FILL 1.25 ADJ.	
20+00.00	0.00	0.00	0.00	0.00	0.00
20+20.00	49.18	0.92	18.21	0.43	17.79
20+50.00	41.97	0.16	50.64	0.75	67.68
21+00.00	75.92	11.98	109.16	14.05	162.78
21+15.00	68.98	22.35	40.25	11.92	191.11
21+50.00	34.68	20.62	67.19	34.81	223.49

EARTHWORK DATA - 29TH AVENUE CUL-DE-SAC

STATION	END AREA		VOLUME		MASS HAUL
	COMMON SF	FILL SF	COMMON CY	FILL 1.25 ADJ.	
30+00.00	0.00	0.00	0.00	0.00	0.00
30+50.00	4.16	12.01	3.85	13.90	-10.05
30+80.00	188.39	11.4	106.97	16.26	80.67
31+00.00	154.40	7.54	126.96	8.77	198.86
31+10.00	118.32	8.14	50.50	3.63	245.73

EARTHWORK DATA - 28TH AVENUE SOUTH CUL-DE-SAC

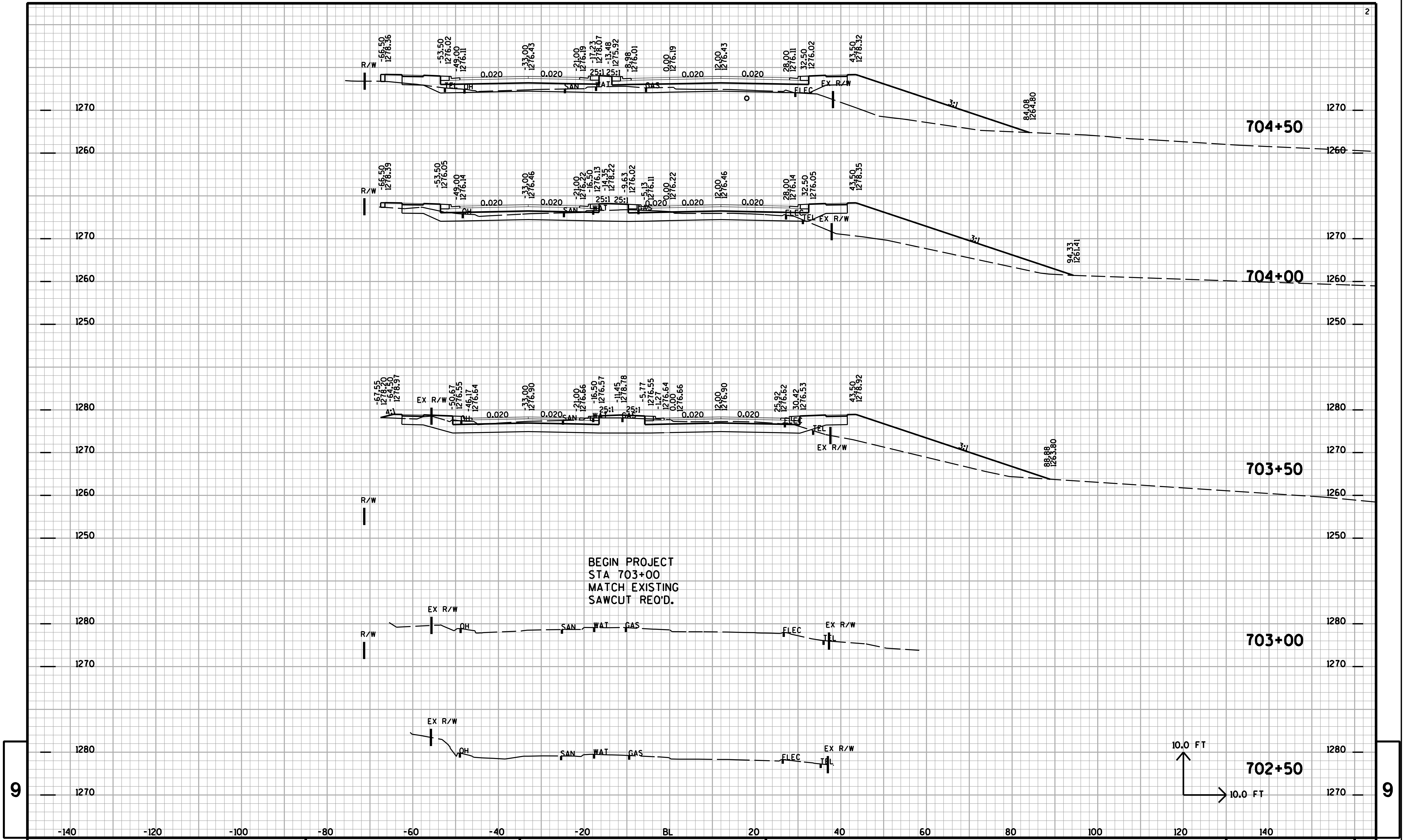
STATION	END AREA		VOLUME		MASS HAUL
	COMMON SF	FILL SF	COMMON CY	FILL 1.25 ADJ.	
40+00.00	0.00	0.00	0.00	0.00	0.00
40+69.00	0.00	441.63	0.00	705.38	-705.38
41+00.00	28.17	269.39	16.17	510.22	-1199.43
41+50.00	62.05	33.48	83.54	350.54	-1466.44
41+95.00	66.43	4.53	107.07	39.59	-1398.97
42+00.00	52.52	0.00	11.01	0.52	-1388.48
42+50.00	0.00	0.00	48.63	0.00	-1339.85

EARTHWORK DATA - TOWN ROAD CUL-DE-SAC

STATION	END AREA		VOLUME		MASS HAUL
	COMMON SF	FILL SF	COMMON CY	FILL 1.25 ADJ.	
50+00.00	0.00	0.00	0.00	0.00	0.00
50+50.00	58.29	1.70	53.97	1.97	52.00
51+00.00	41.71	3.34	92.59	5.83	138.76
51+05.00	46.41	3.68	8.16	0.81	146.11
51+50.00	30.13	3.13	63.78	7.09	202.80
52+00.00	33.96	4.38	59.34	8.69	253.45
52+50.00	66.06	5.47	92.61	11.40	334.66
52+82.00	0.00	0.00	39.15	4.05	369.76

EARTHWORK DATA - TOWN ROAD DRIVEWAY

STATION	END AREA		VOLUME		MASS HAUL
	COMMON SF	FILL SF	COMMON CY	FILL 1.25 ADJ.	
55+00.00	30.22	0.00	0.00	0.00	0.00
55+50.00	38.13	0.49	63.28	0.56	62.72
56+00.00	32.24	0.37	65.13	1.00	126.85
56+34.00	30.60	0.00	39.57	0.29	166.13



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PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:28TH AVENUE	SHEET NO:	E

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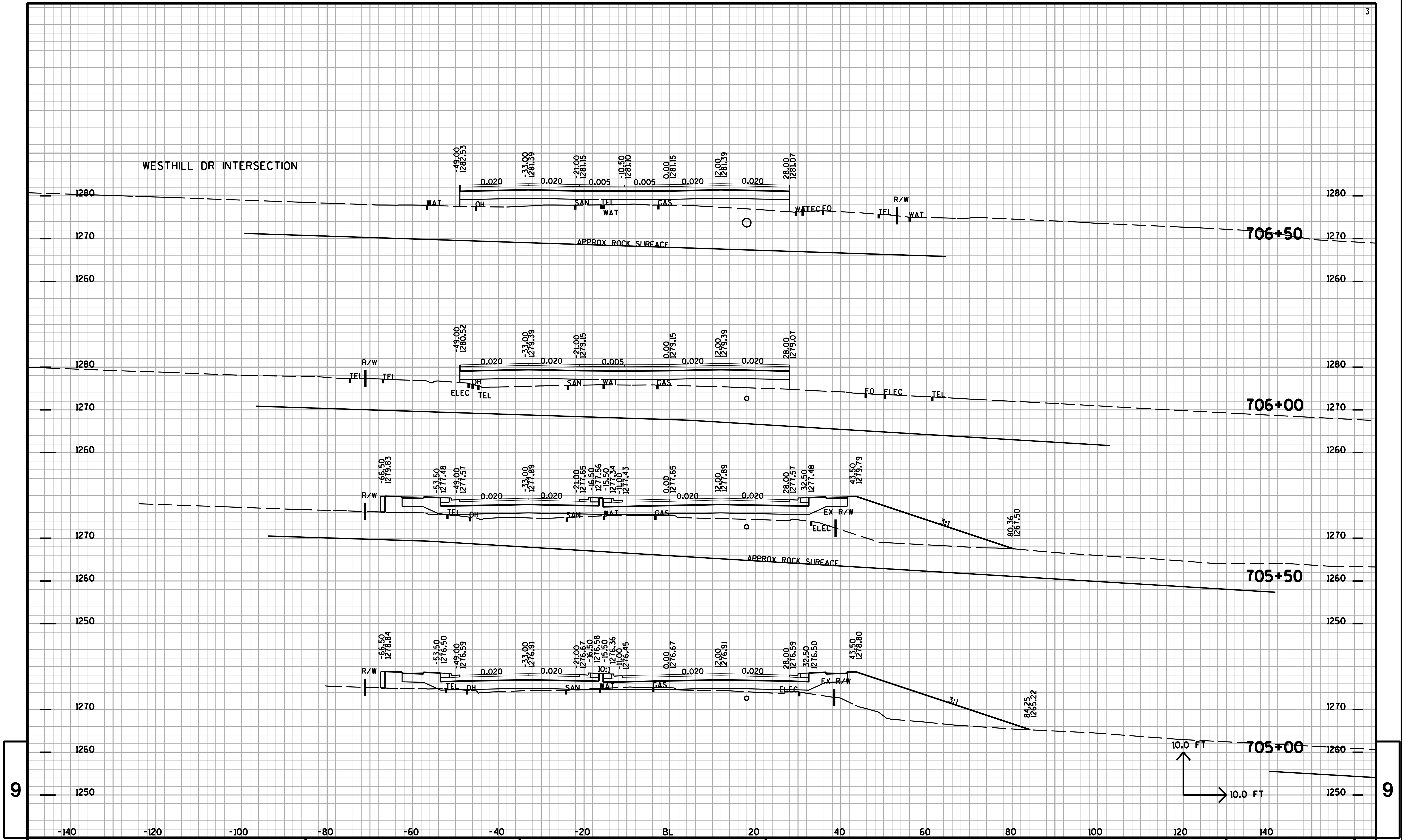

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PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:28TH AVENUE	SHEET NO:	E

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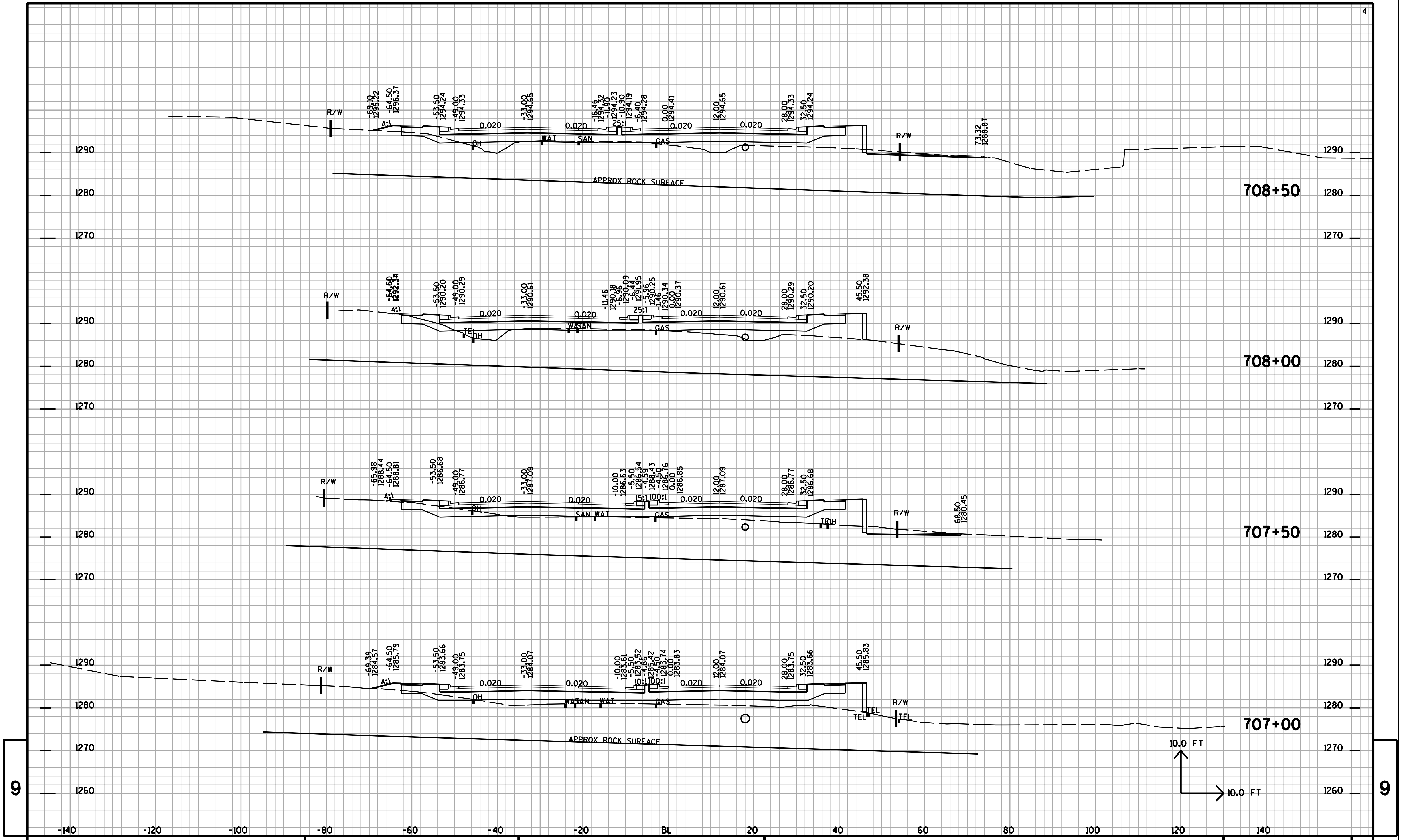

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PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:28TH AVENUE	SHEET NO:	E

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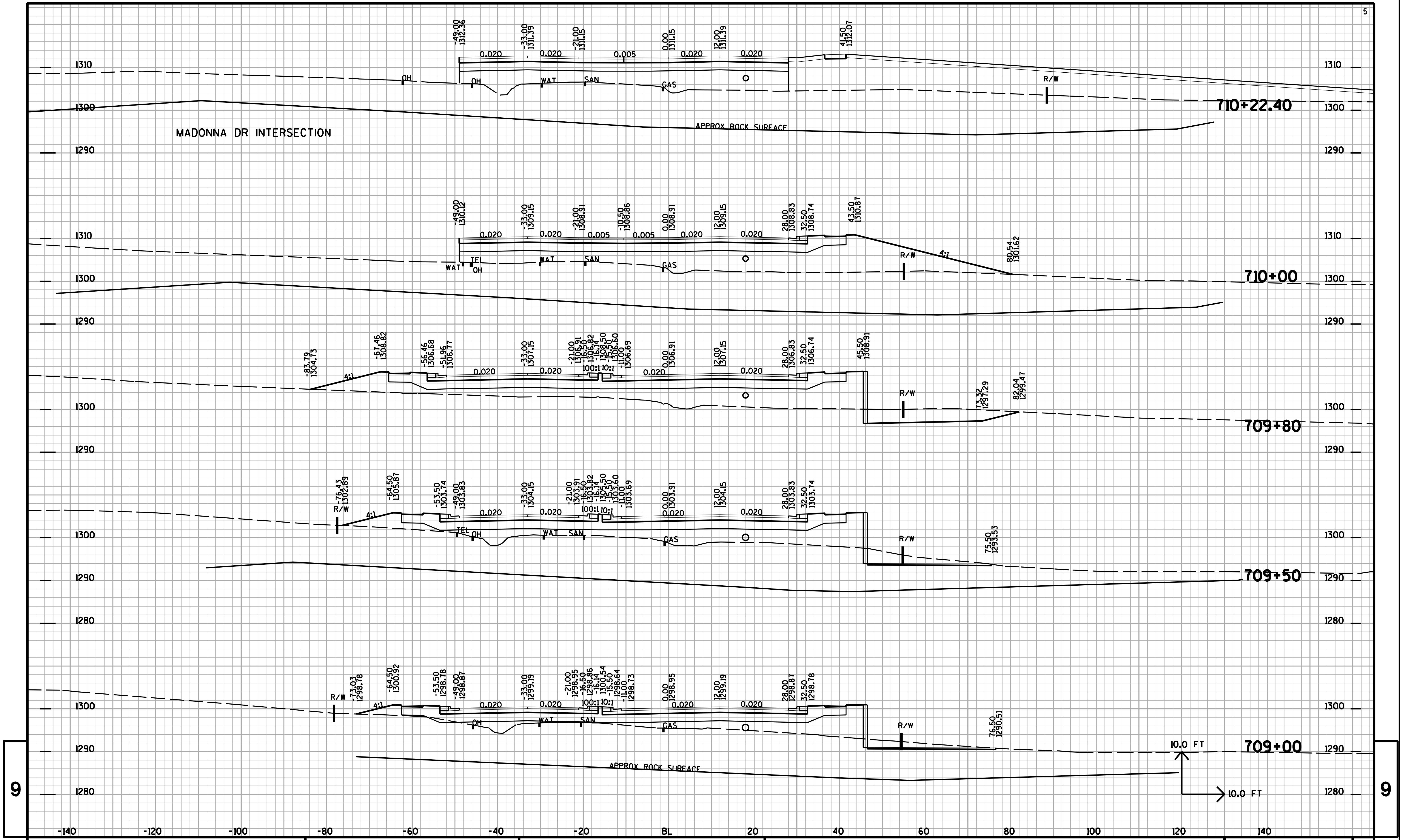

PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:28TH AVENUE	SHEET NO:	E

FILE NAME : T:\410537\DGN\XS 28TH AVE part1 090220.DGN PLOT DATE : 2/25/2009 PLOT BY : AYRES-EC eau_shd_util.tbl PLOT SCALE : 1:20

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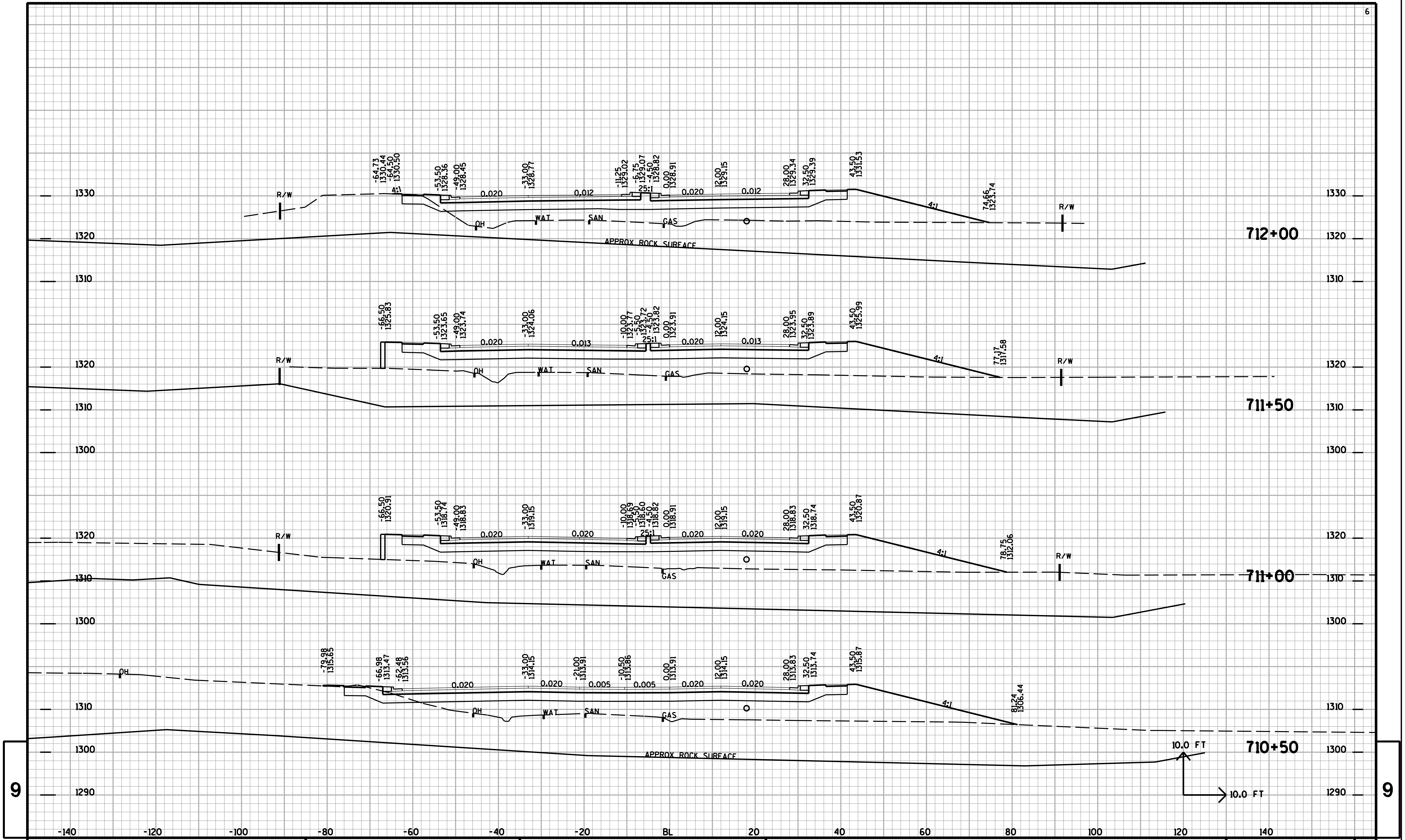

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PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:28TH AVENUE	SHEET NO:	E

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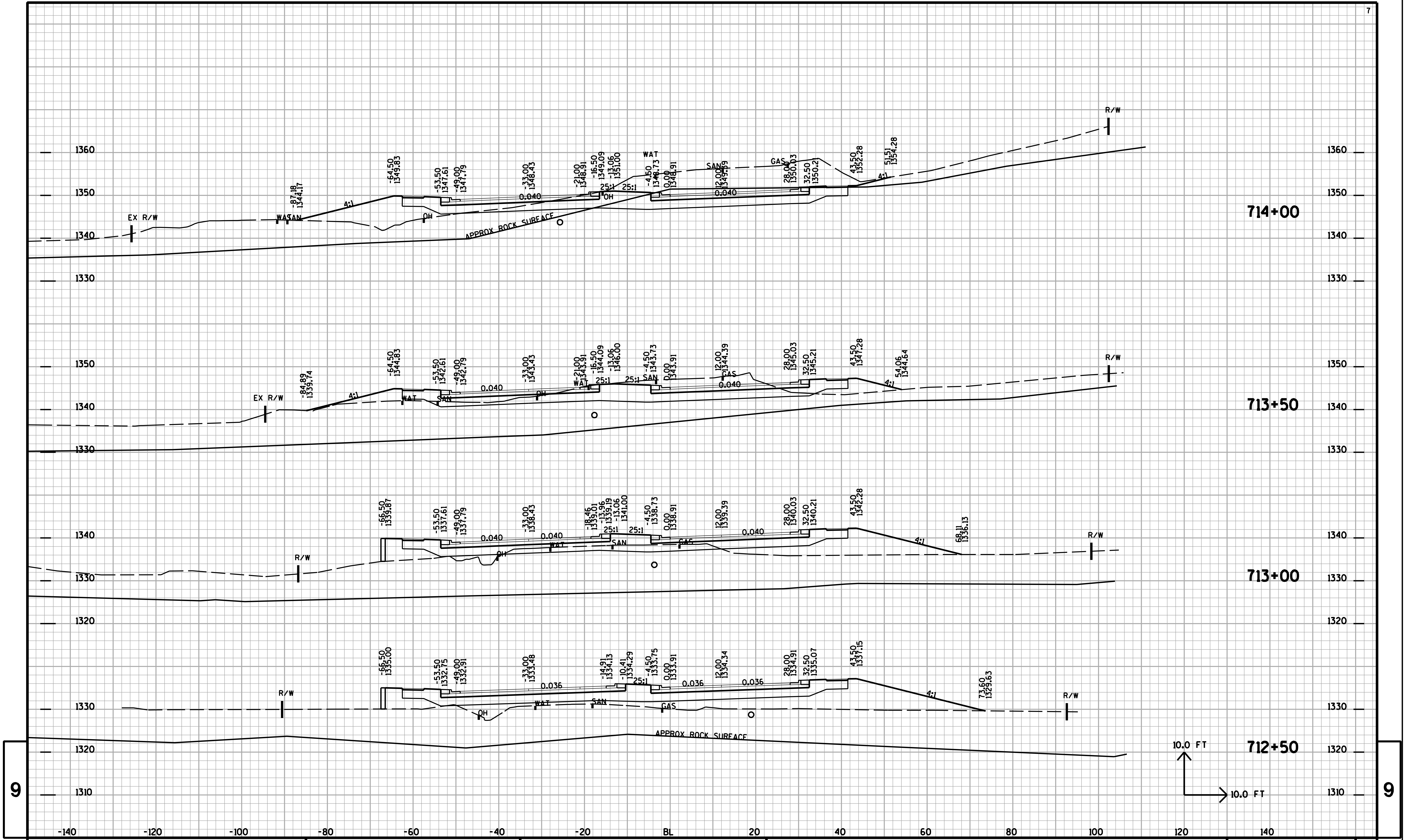

PROJECT NO: | HWY:28TH AVENUE | COUNTY:MARATHON | CROSS SECTIONS:28TH AVENUE | SHEET NO: | E

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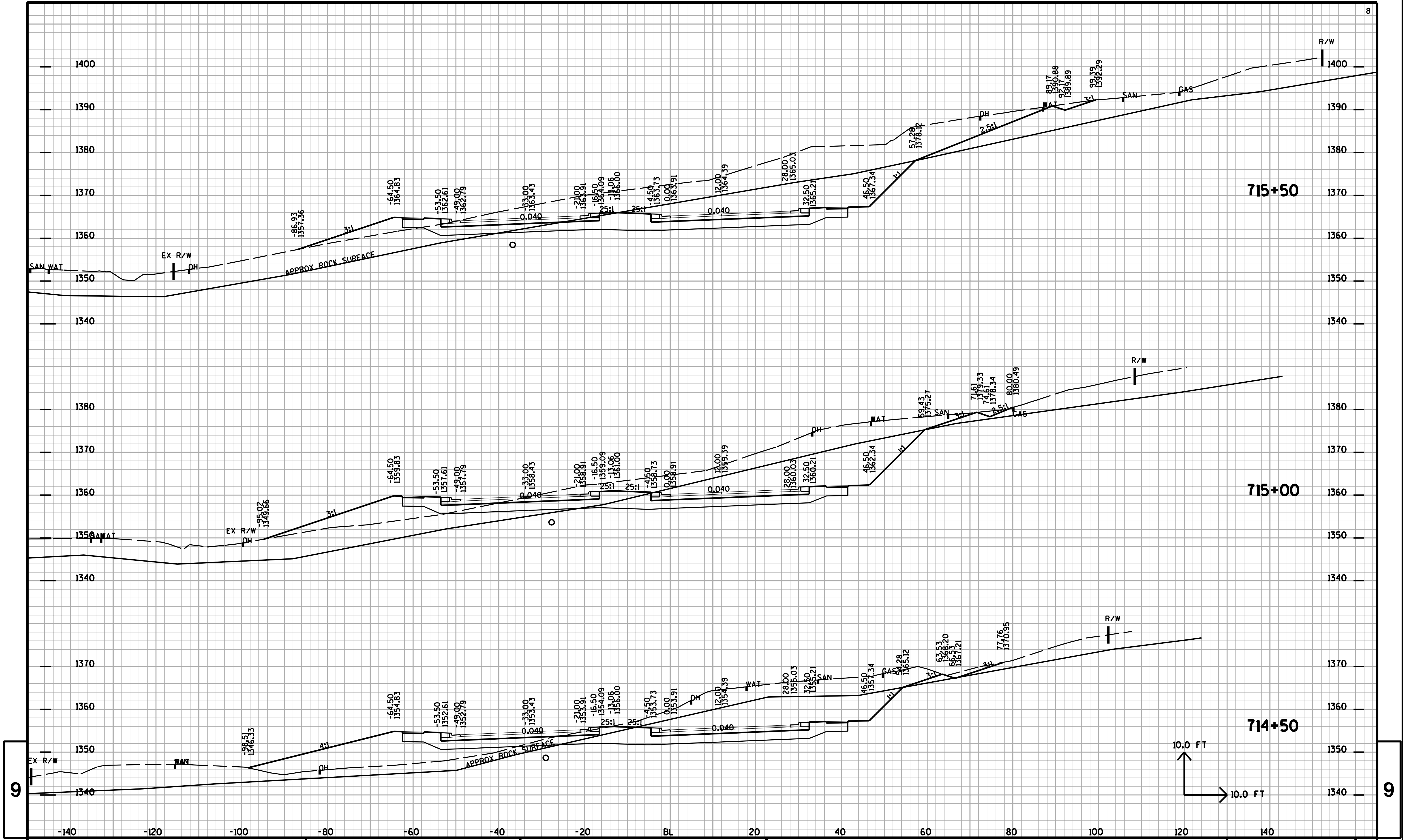

PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:28TH AVENUE	SHEET NO:	E

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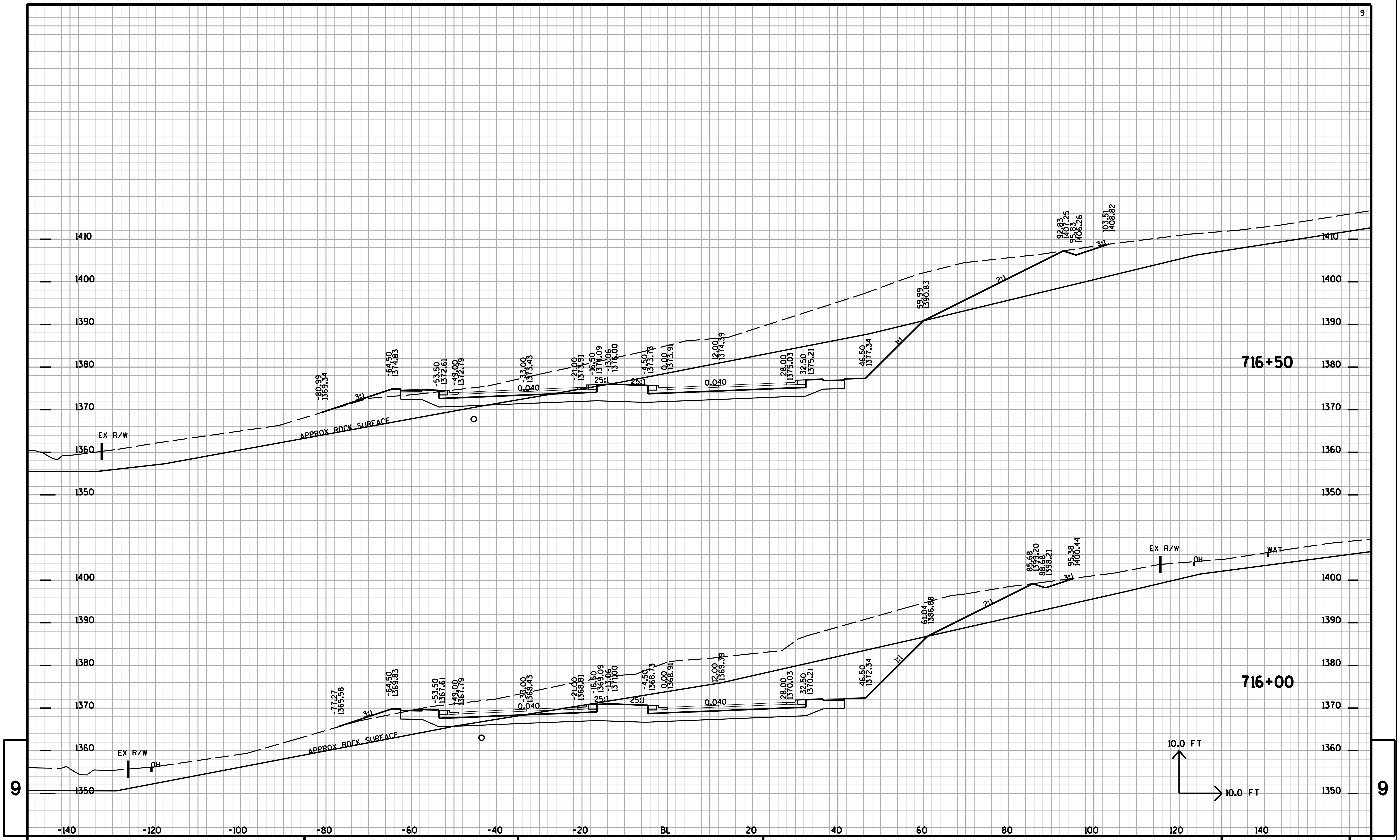

PROJECT NO:
HWY:28TH AVENUE
COUNTY:MARATHON
CROSS SECTIONS:28TH AVENUE
SHEET NO:
E

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PLOT BY : AYRES-EC
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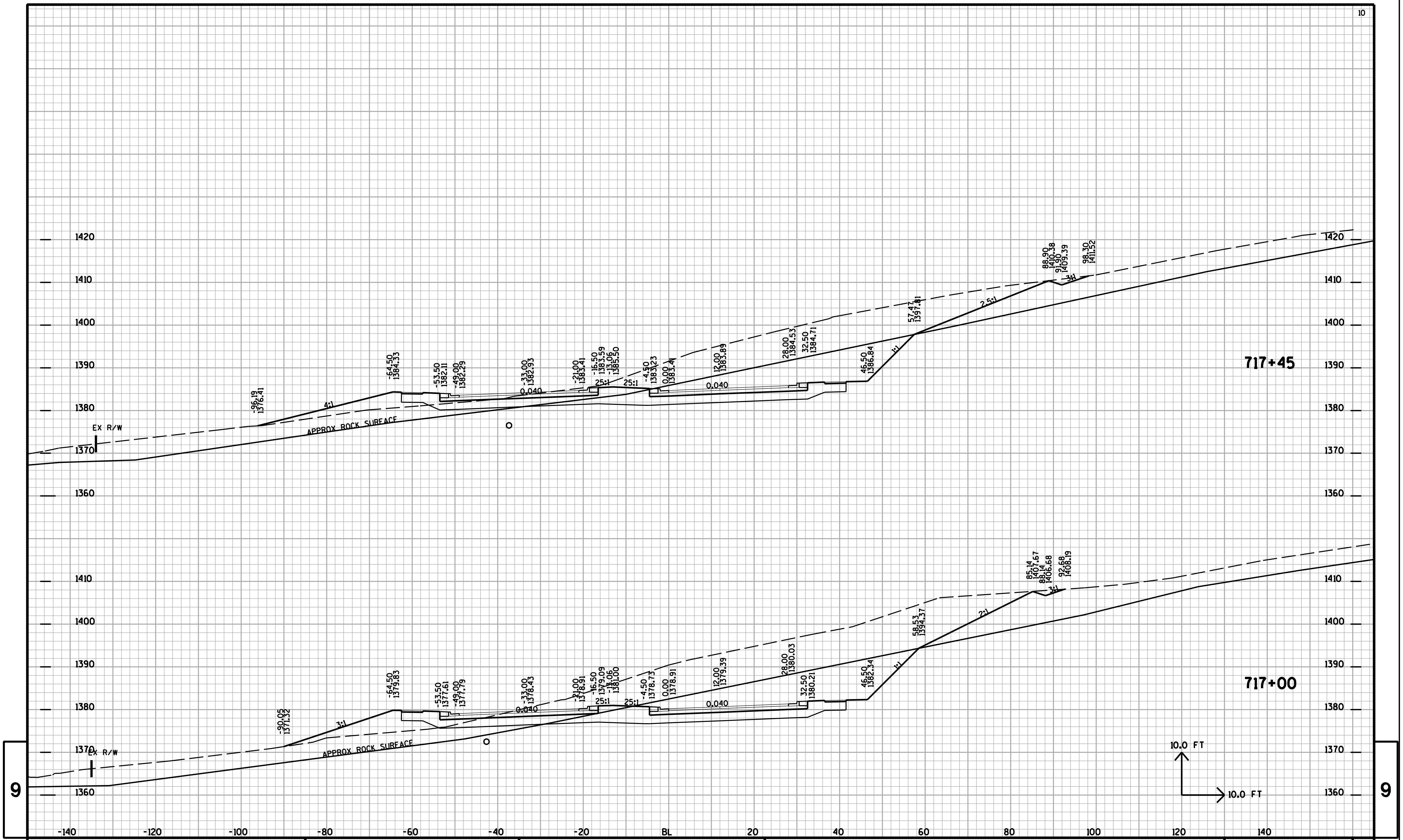

PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:28TH AVENUE	SHEET NO:	E

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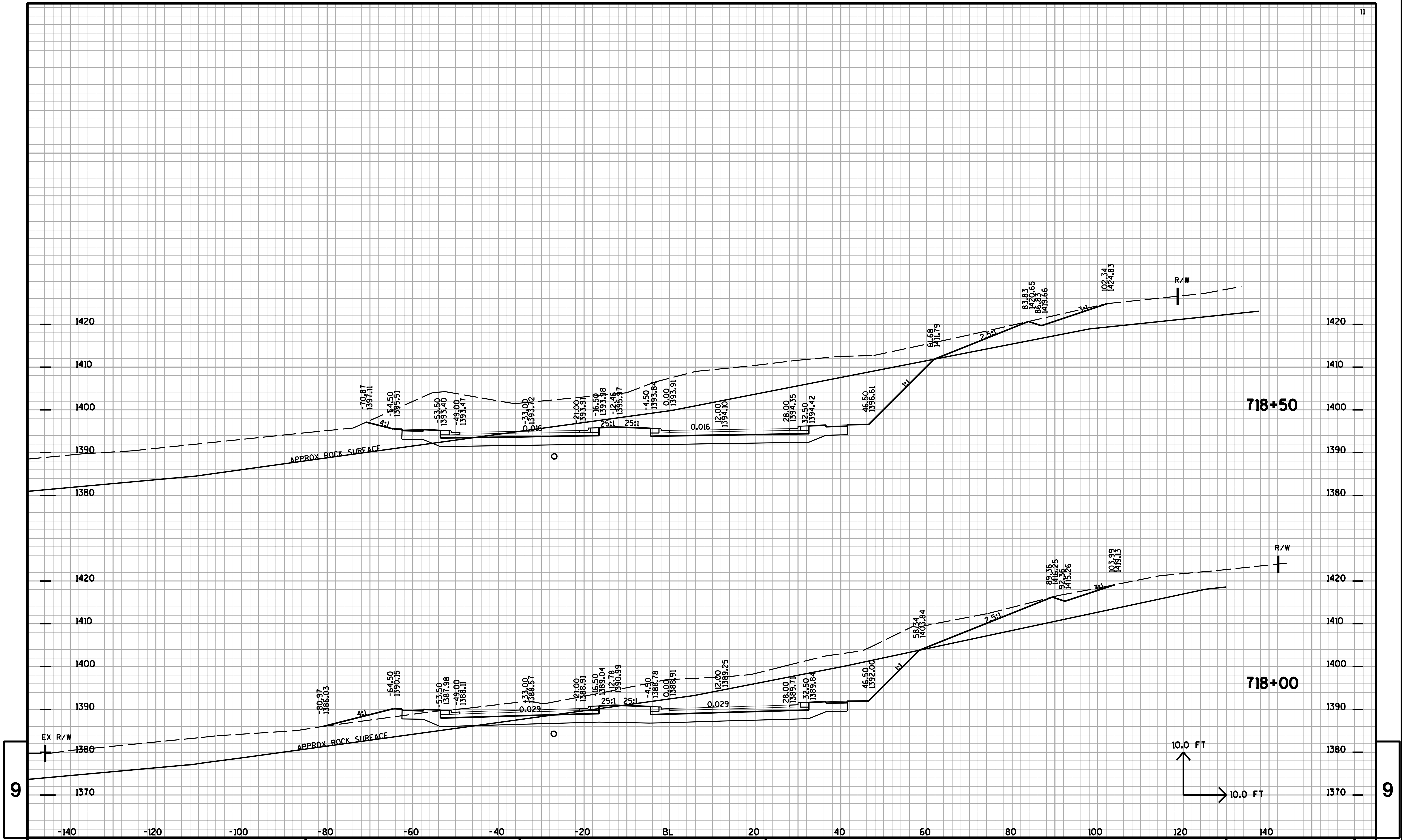

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PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:28TH AVENUE	SHEET NO:	E

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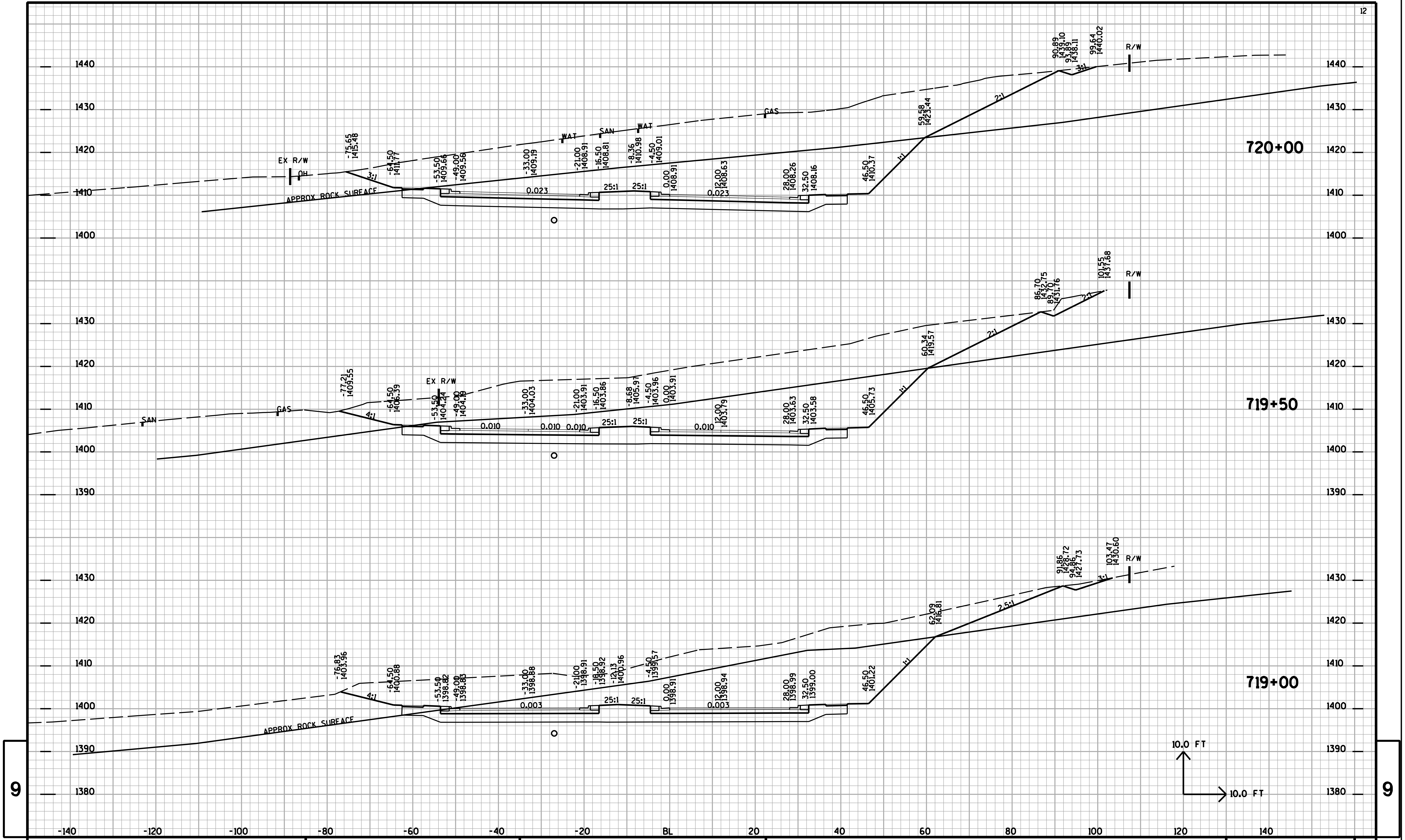

PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:28TH AVENUE	SHEET NO:	E

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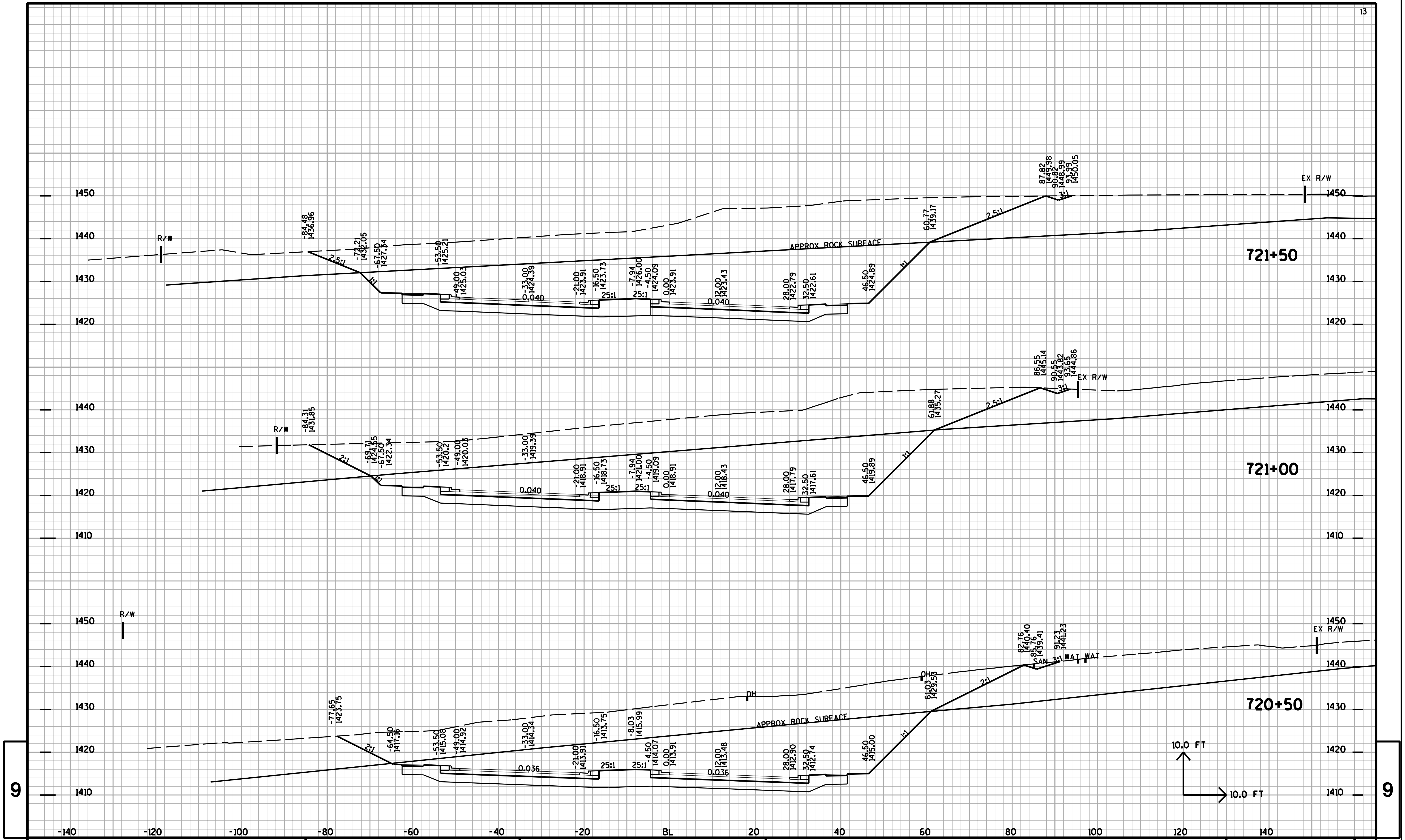

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PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:28TH AVENUE	SHEET NO:	E

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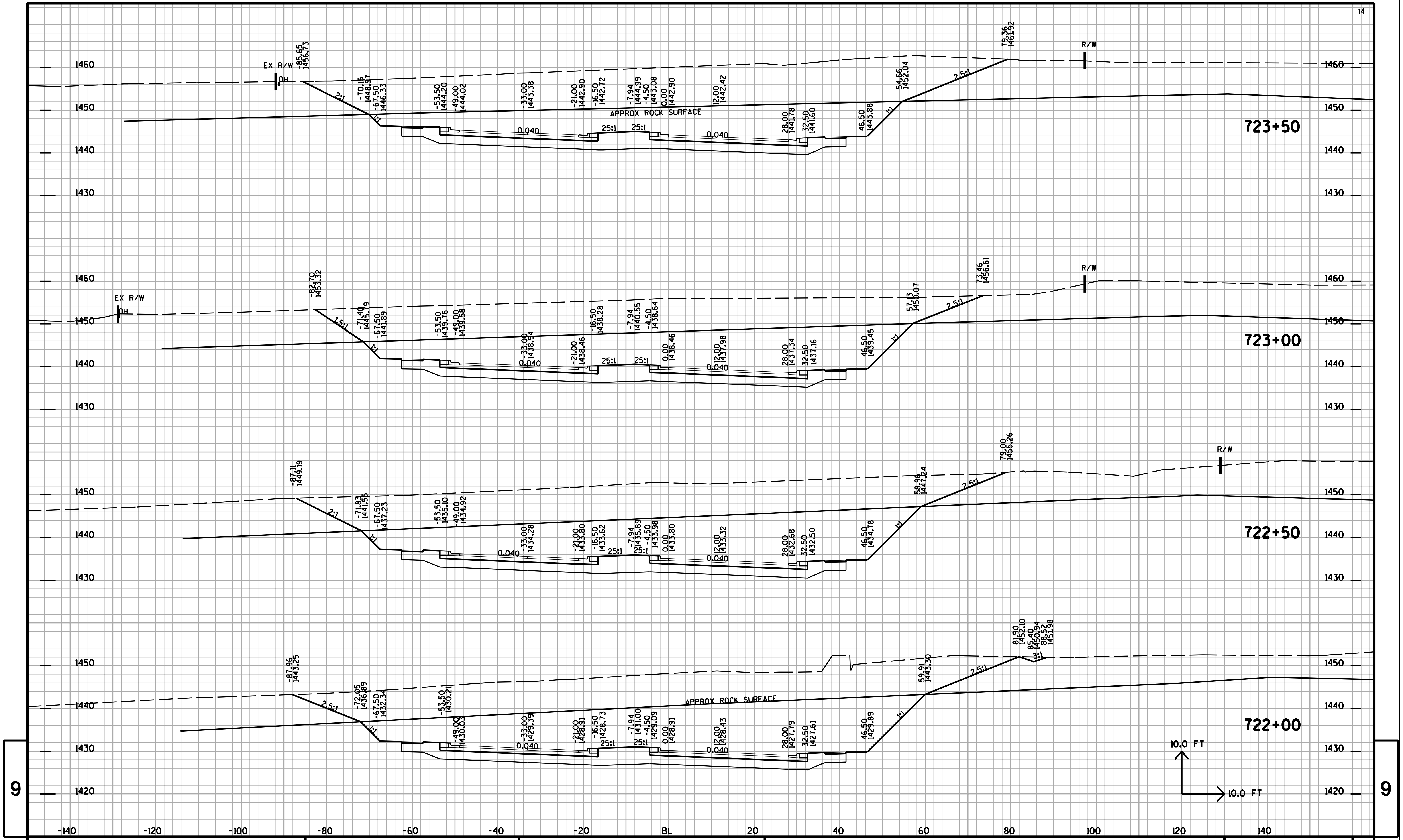

PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:28TH AVENUE	SHEET NO:	E

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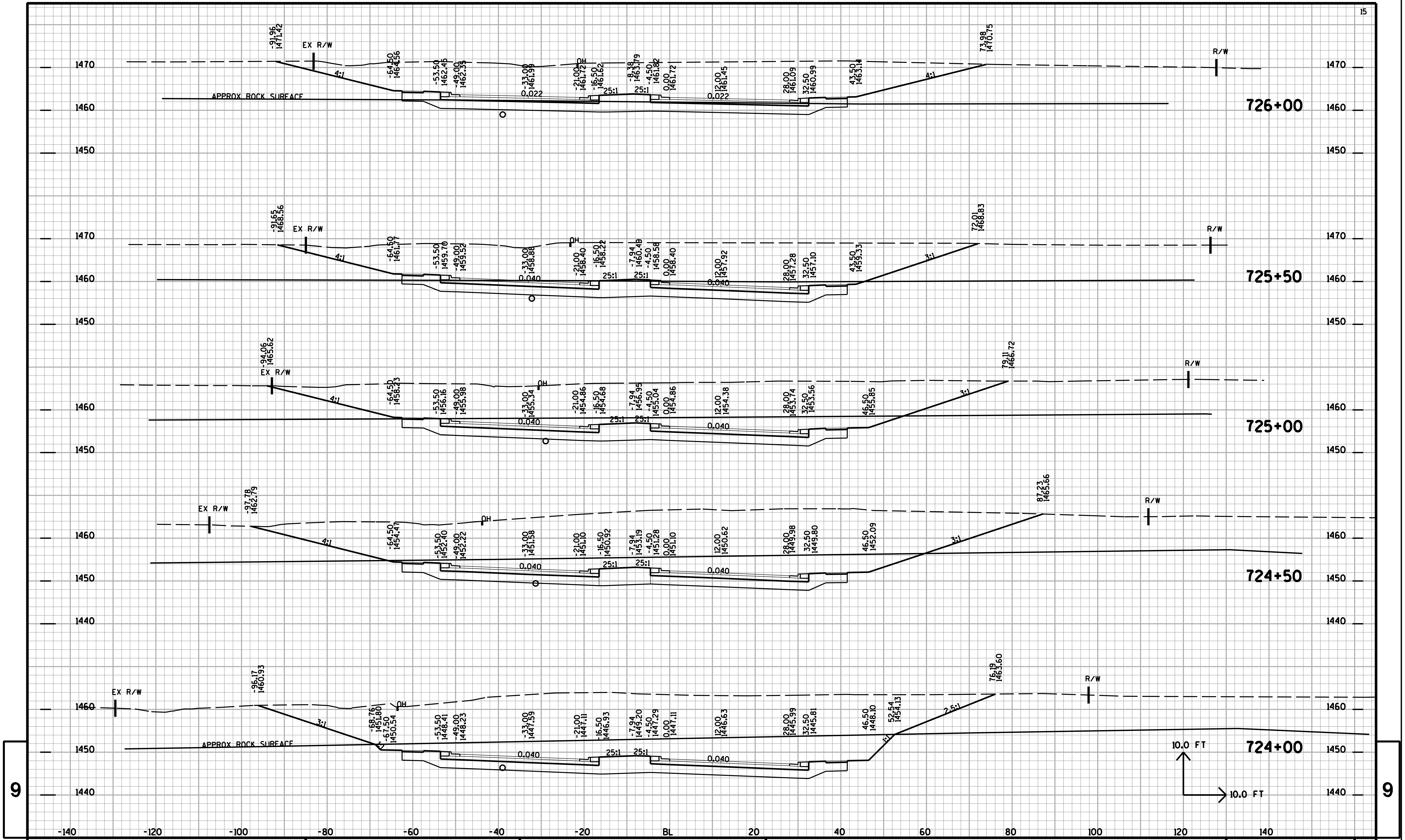

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PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:28TH AVENUE	SHEET NO:	E

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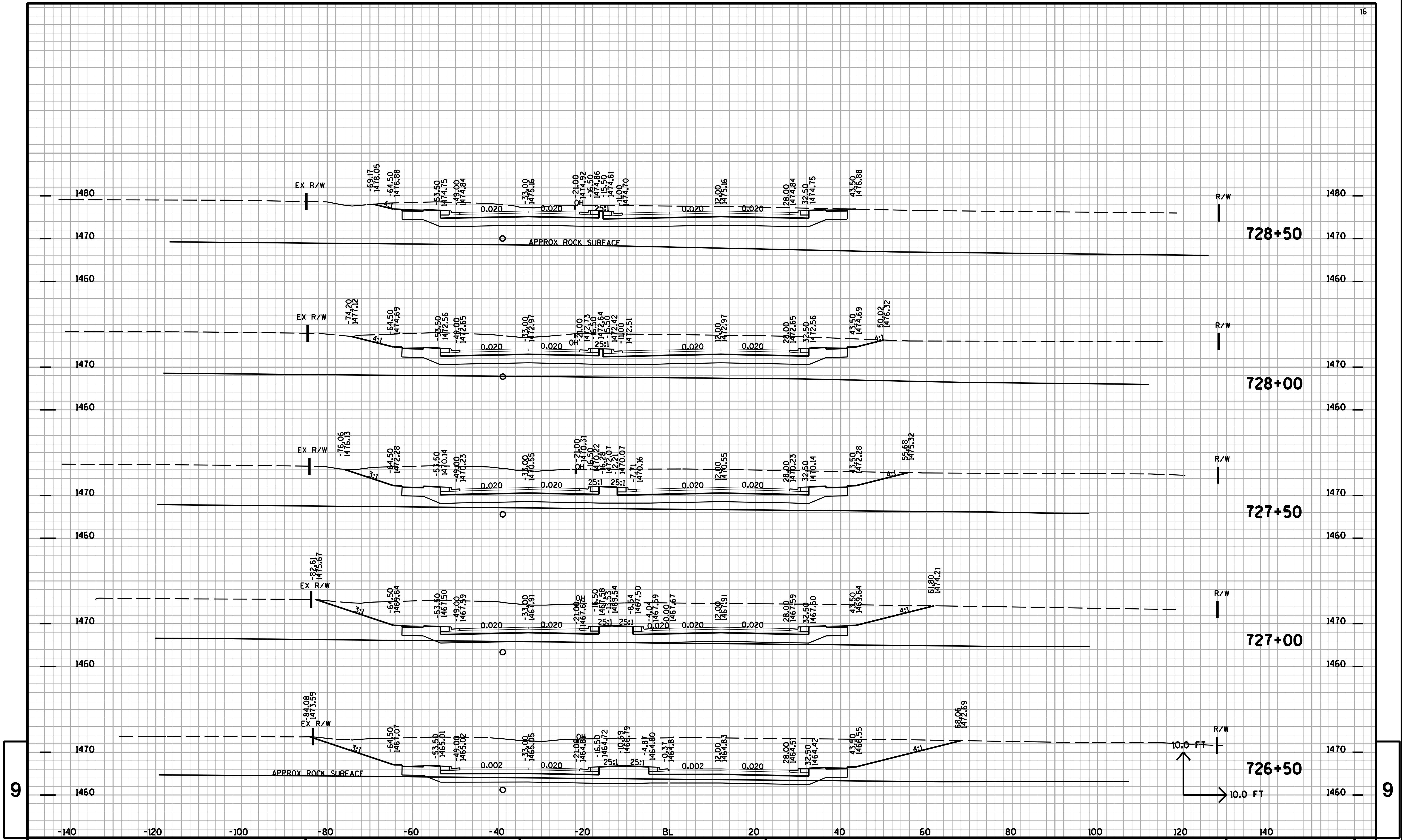

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PROJECT NO:

HWY:28TH AVENUE

COUNTY:MARATHON

CROSS SECTIONS:28TH AVENUE

SHEET NO:

E

FILE NAME : T:\410537\DGN\XS 28TH AVE part1 090220.DGN

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PLOT BY : AYRES-EC

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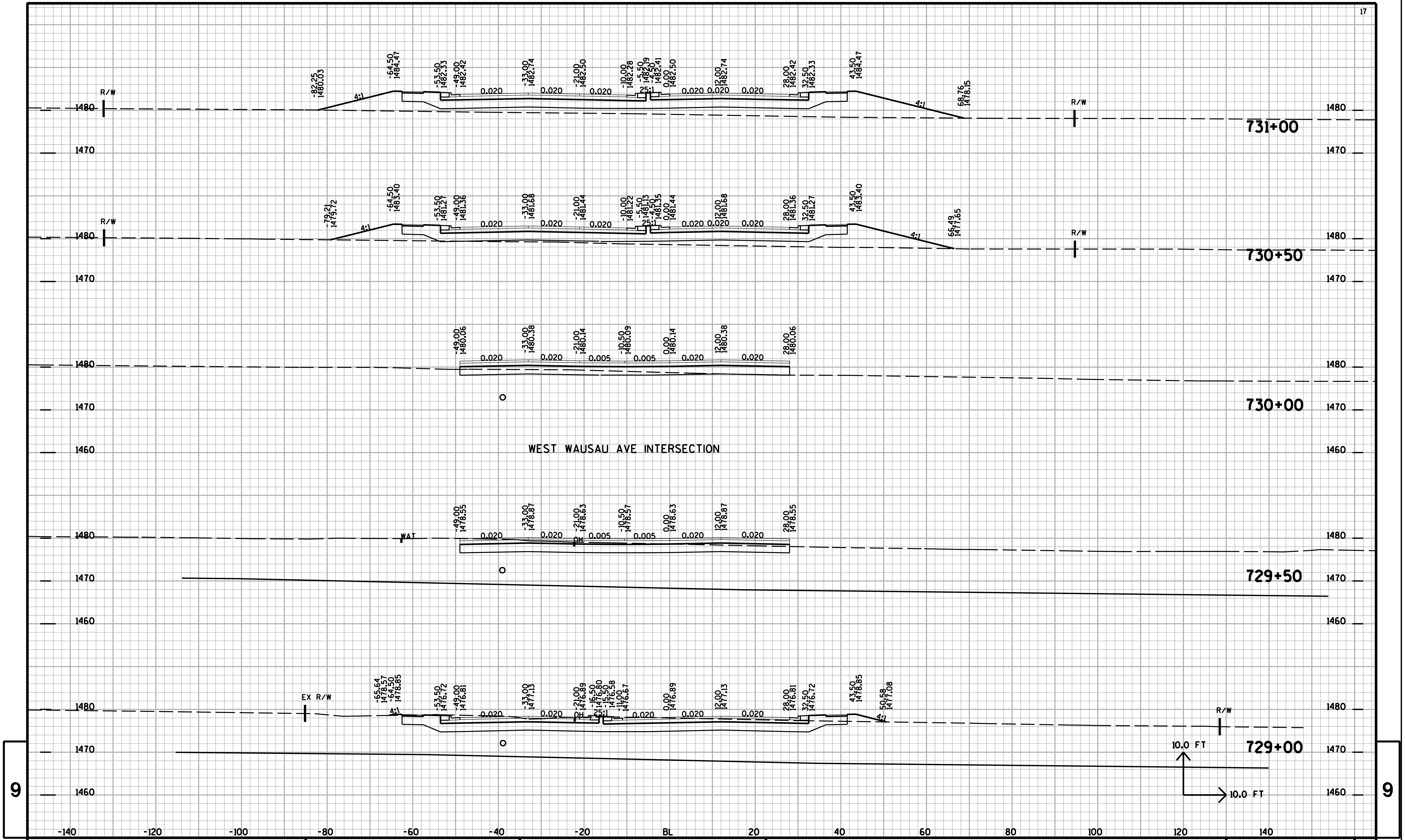

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PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:28TH AVENUE	SHEET NO:	E

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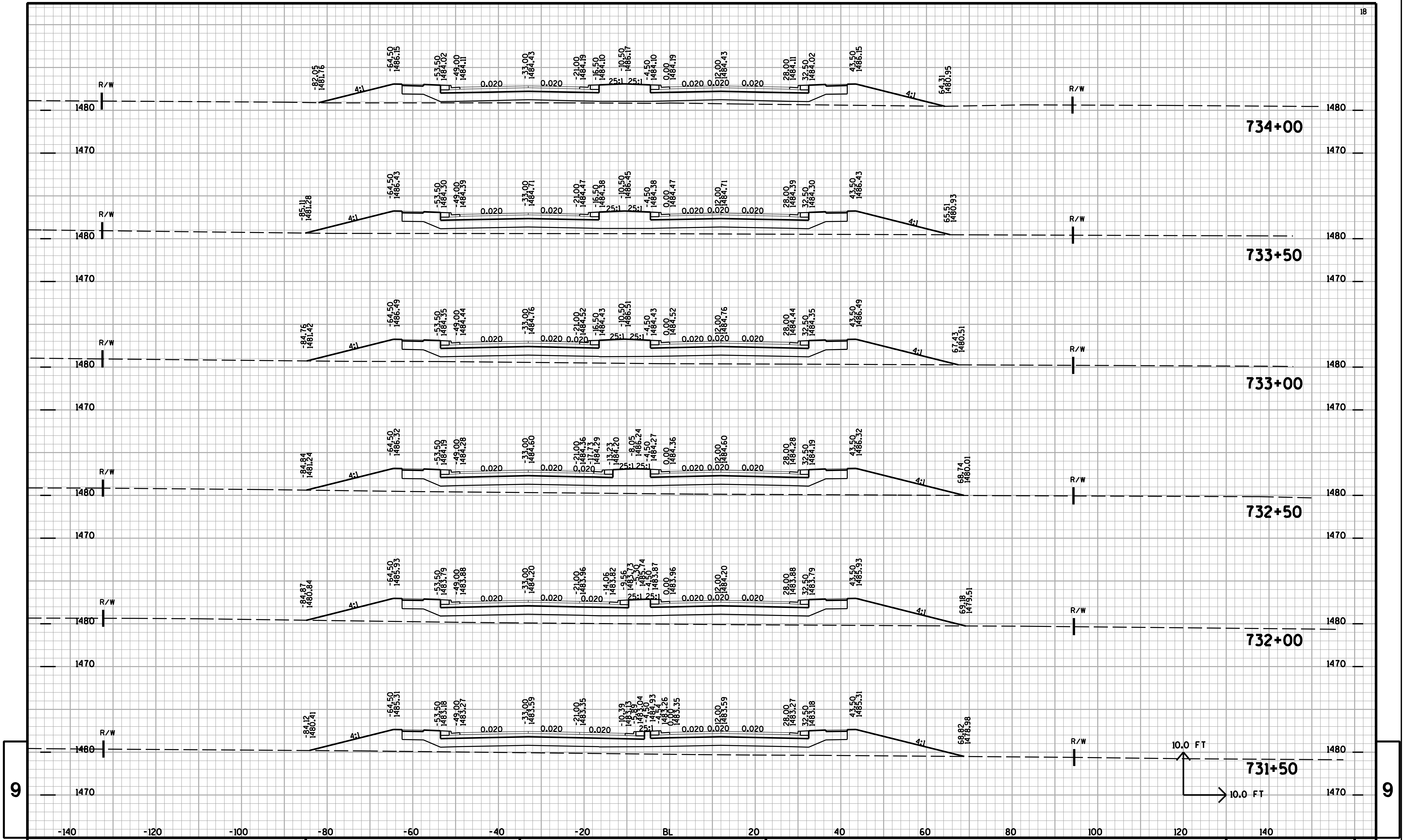

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PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:28TH AVENUE	SHEET NO:	E

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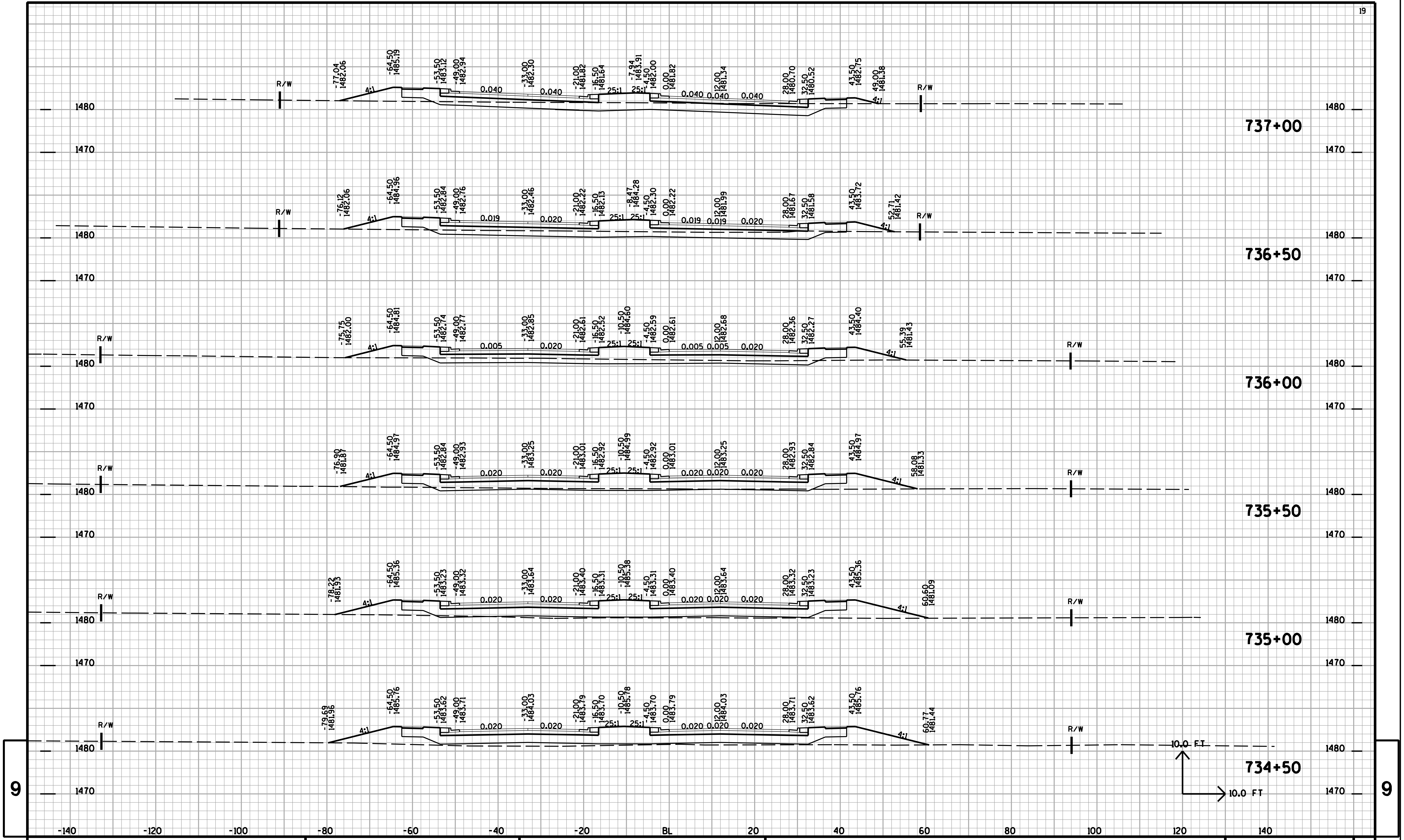

PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:28TH AVENUE	SHEET NO:	E

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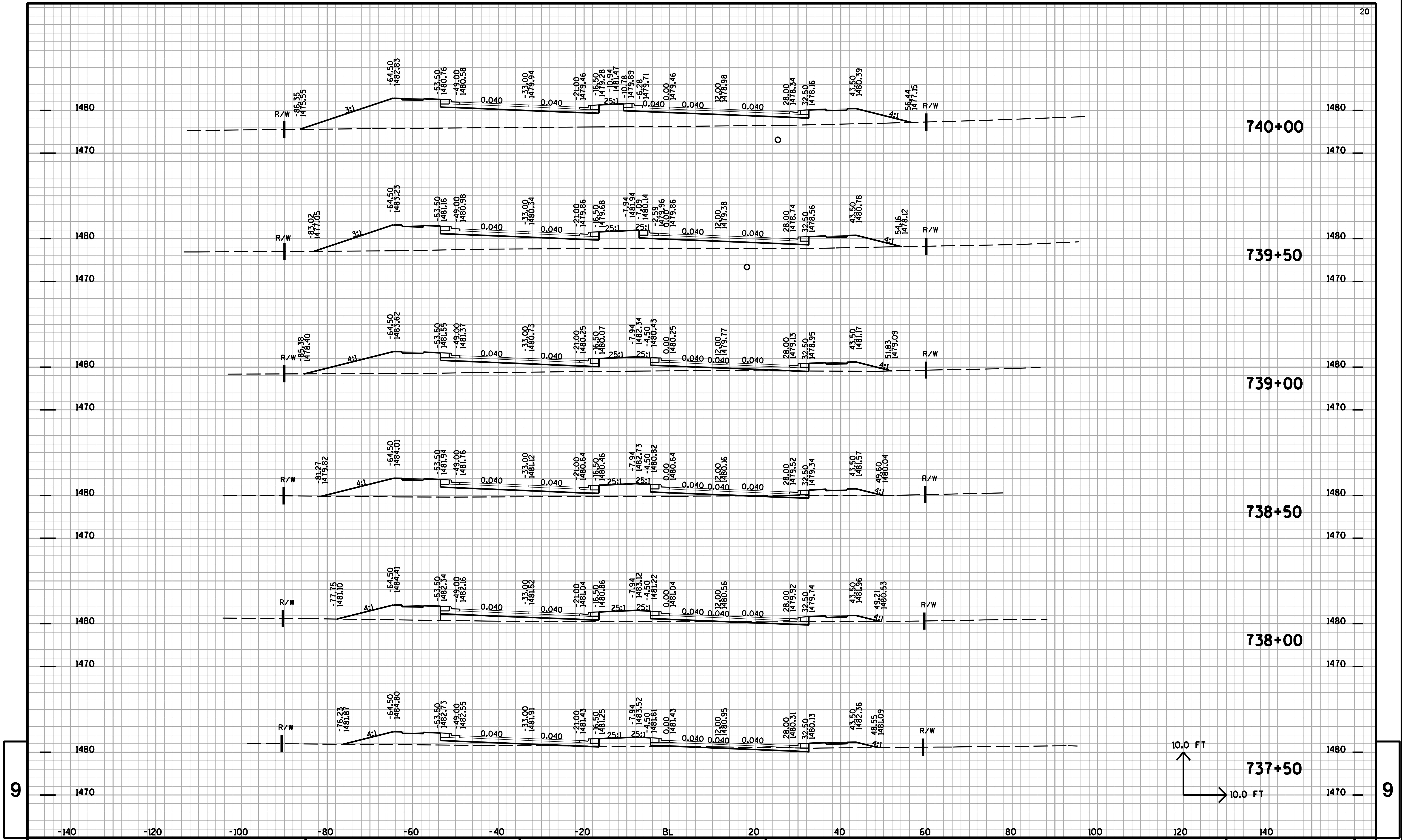

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PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:28TH AVENUE	SHEET NO:	E

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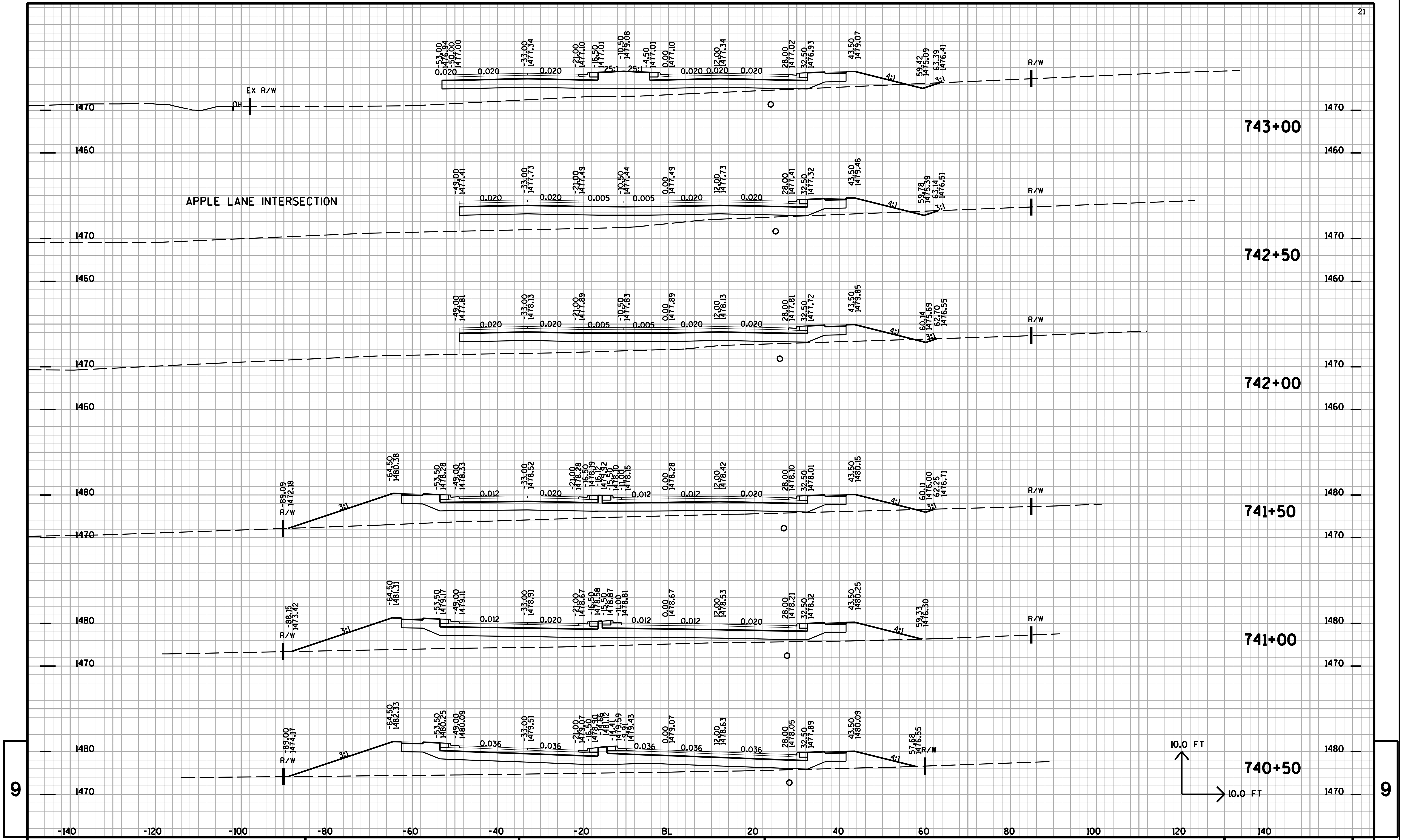

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PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:28TH AVENUE	SHEET NO:	E

FILE NAME : T:\410537\DGN\XS 28TH AVE part1 090220.DGN PLOT DATE : 2/25/2009 PLOT BY : AYRES-EC eau_shd_util.tbl PLOT SCALE : 1:20

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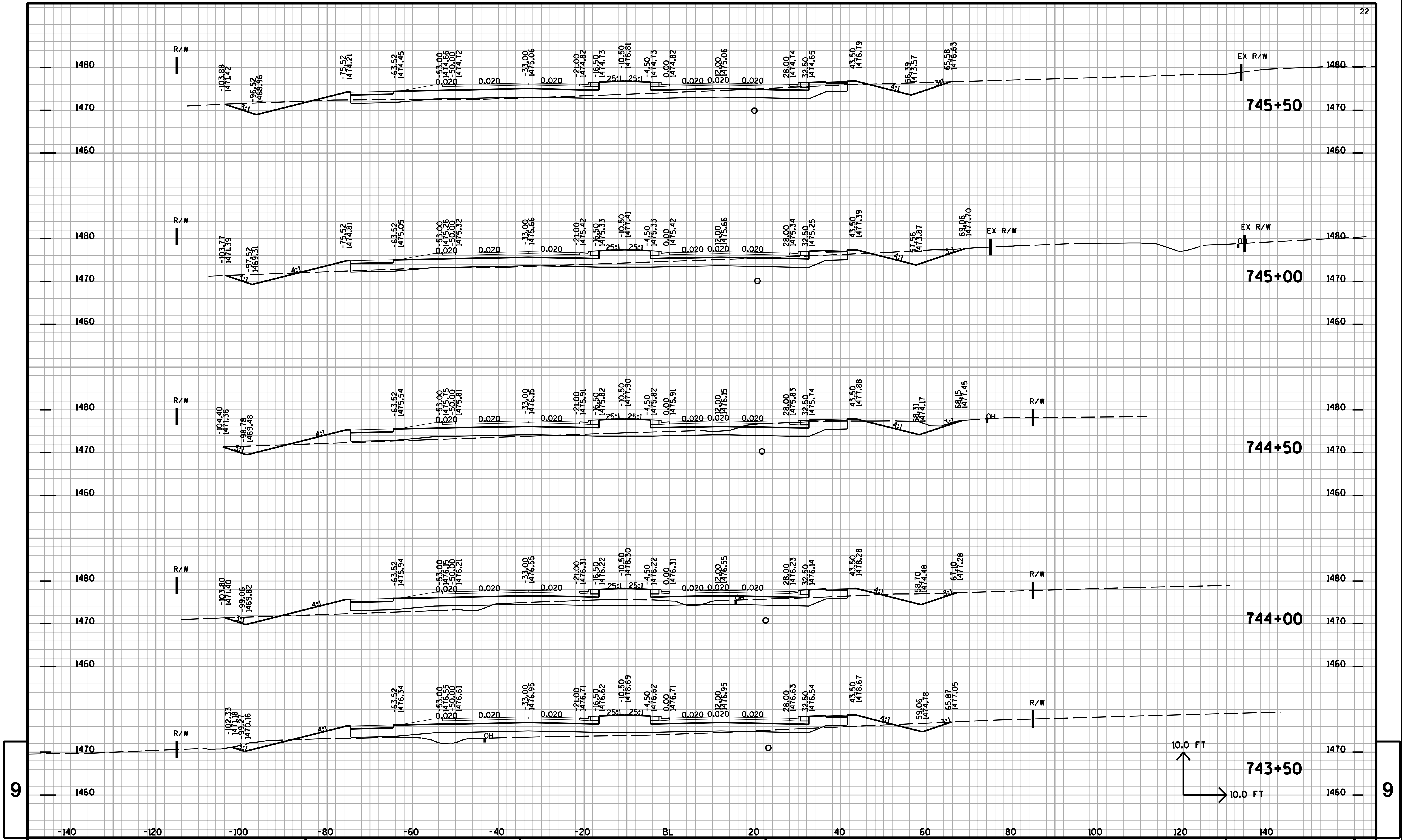

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PROJECT NO: | HWY:28TH AVENUE | COUNTY:MARATHON | CROSS SECTIONS:28TH AVENUE | SHEET NO: | E

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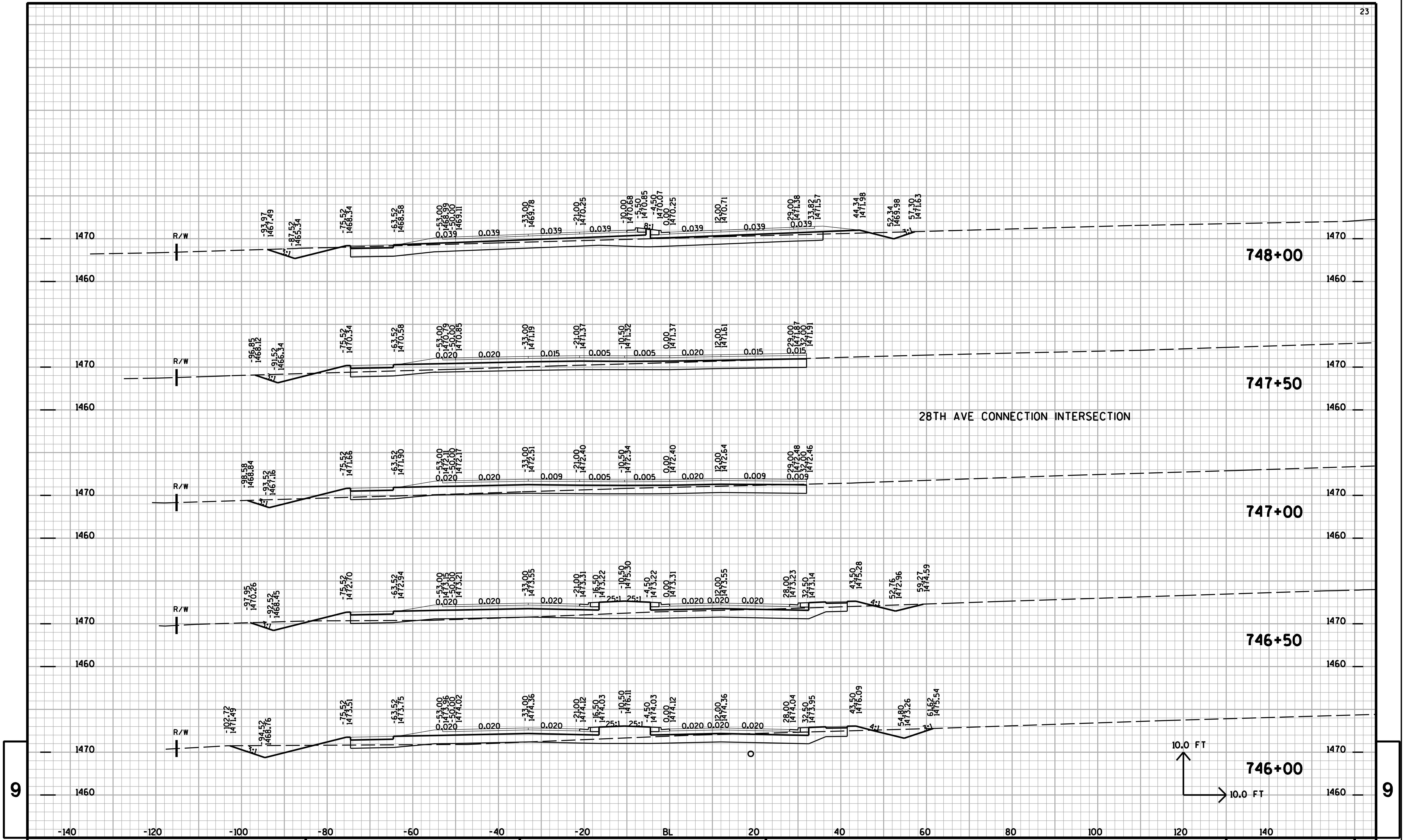

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PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:28TH AVENUE	SHEET NO:	E

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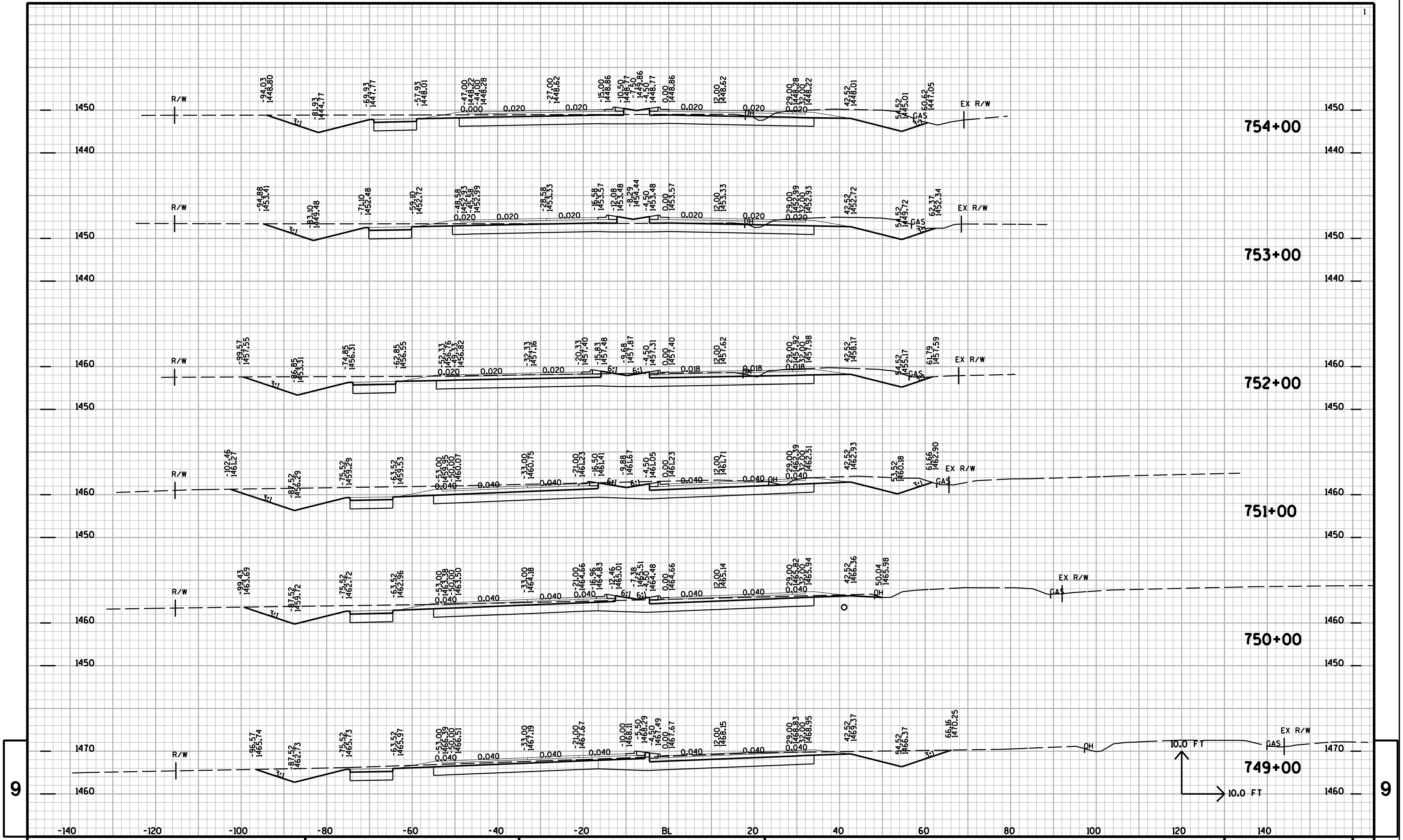

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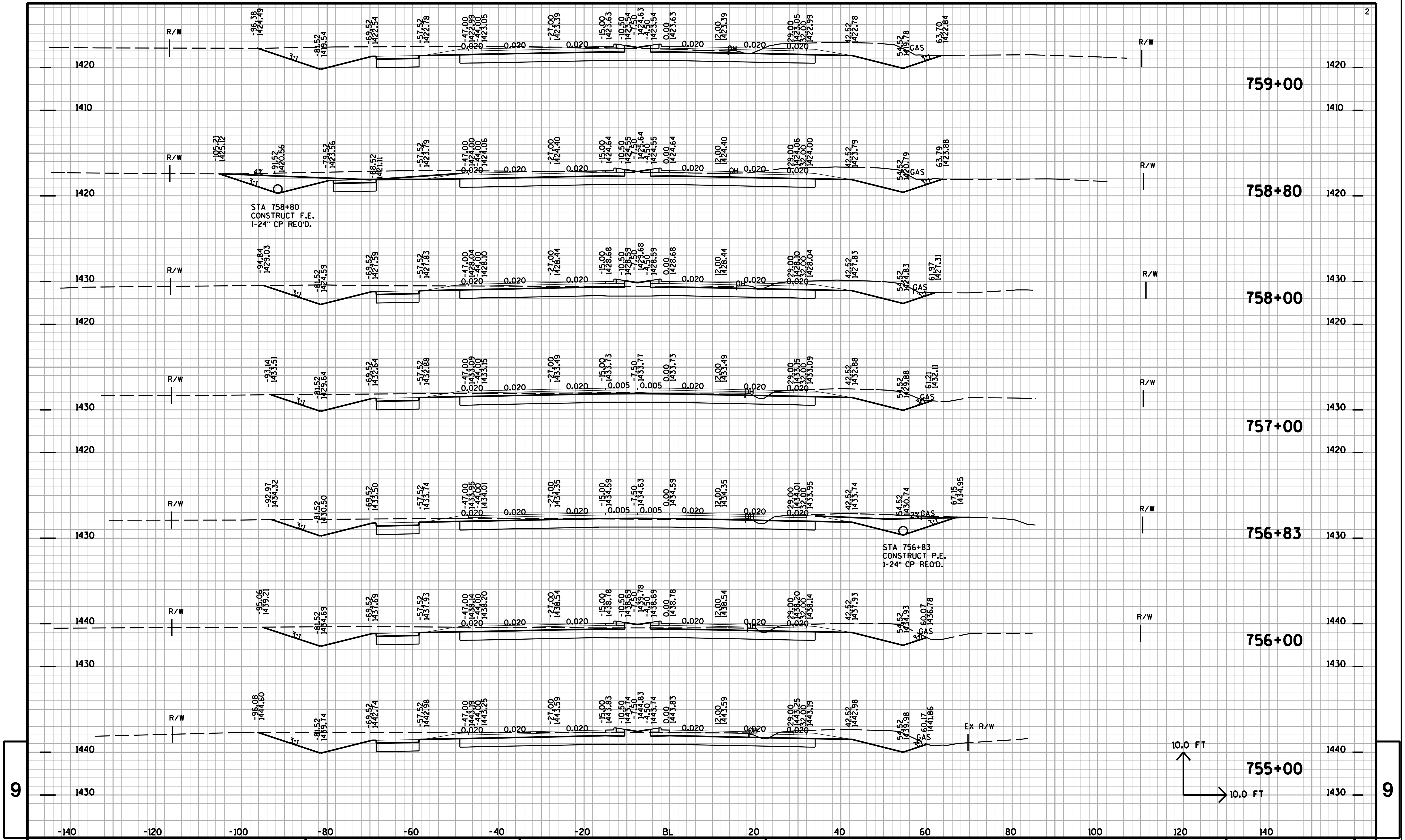
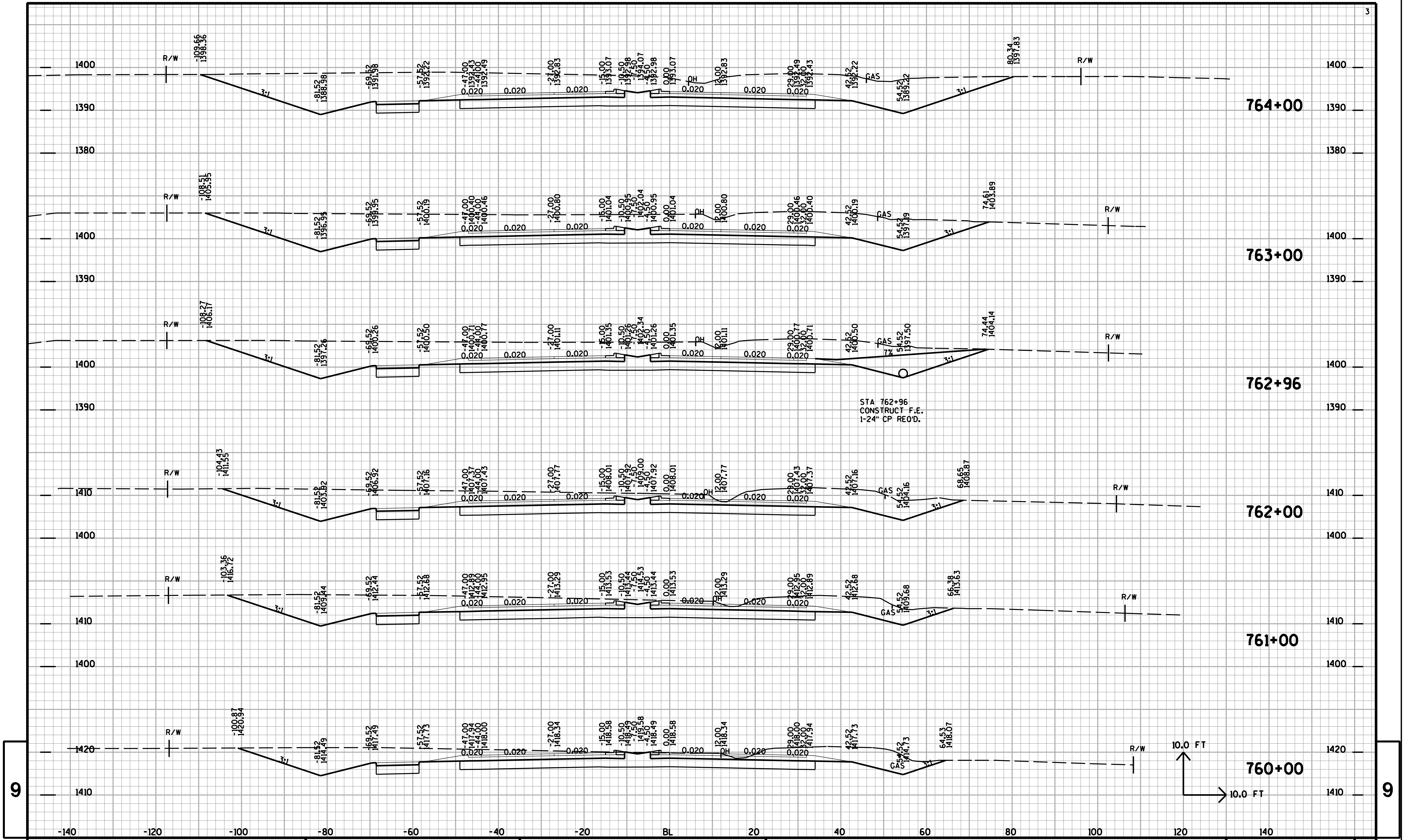


STA 758+80
CONSTRUCT F.E.
1-24" CP REQ'D.

STA 756+83
CONSTRUCT P.E.
1-24" CP REQ'D.

PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:28TH AVENUE	SHEET NO:	E

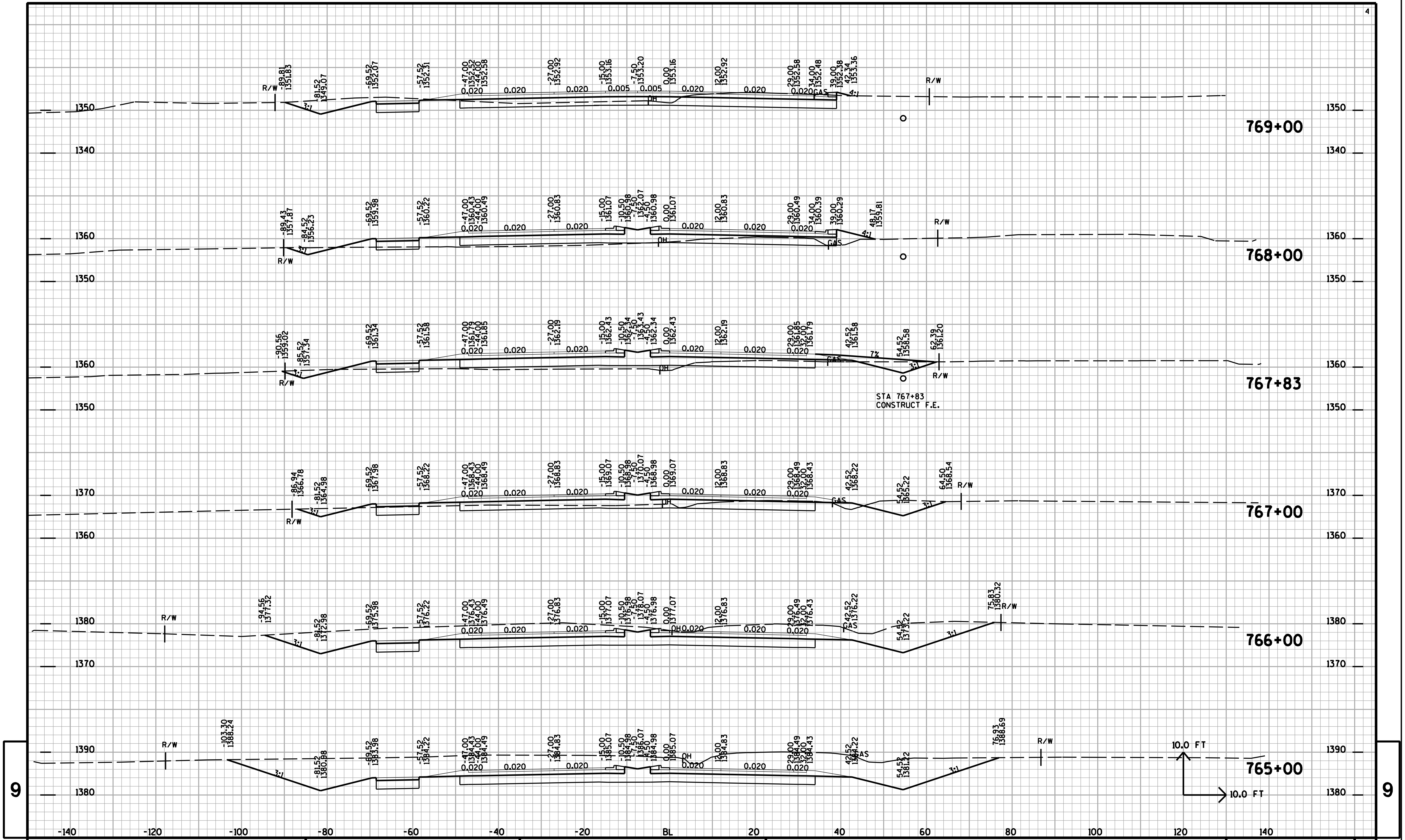
FILE NAME : T:\410537\DGN\XS 28TH AVE part 2 090220.DGN PLOT DATE : 2/25/2009 PLOT BY : AYRES-EC eau_shd_util.tbl PLOT SCALE : 1:20



STA 762+96
CONSTRUCT F.E.
1-24" CP REQ'D.

PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:28TH AVENUE	SHEET NO:	E

FILE NAME : T:\410537\DGN\XS 28TH AVE part 2 090220.DGN PLOT DATE : 2/25/2009 PLOT BY : AYRES-EC eau_shd_util.tbl PLOT SCALE : 1:20



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PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:28TH AVENUE	SHEET NO:	E

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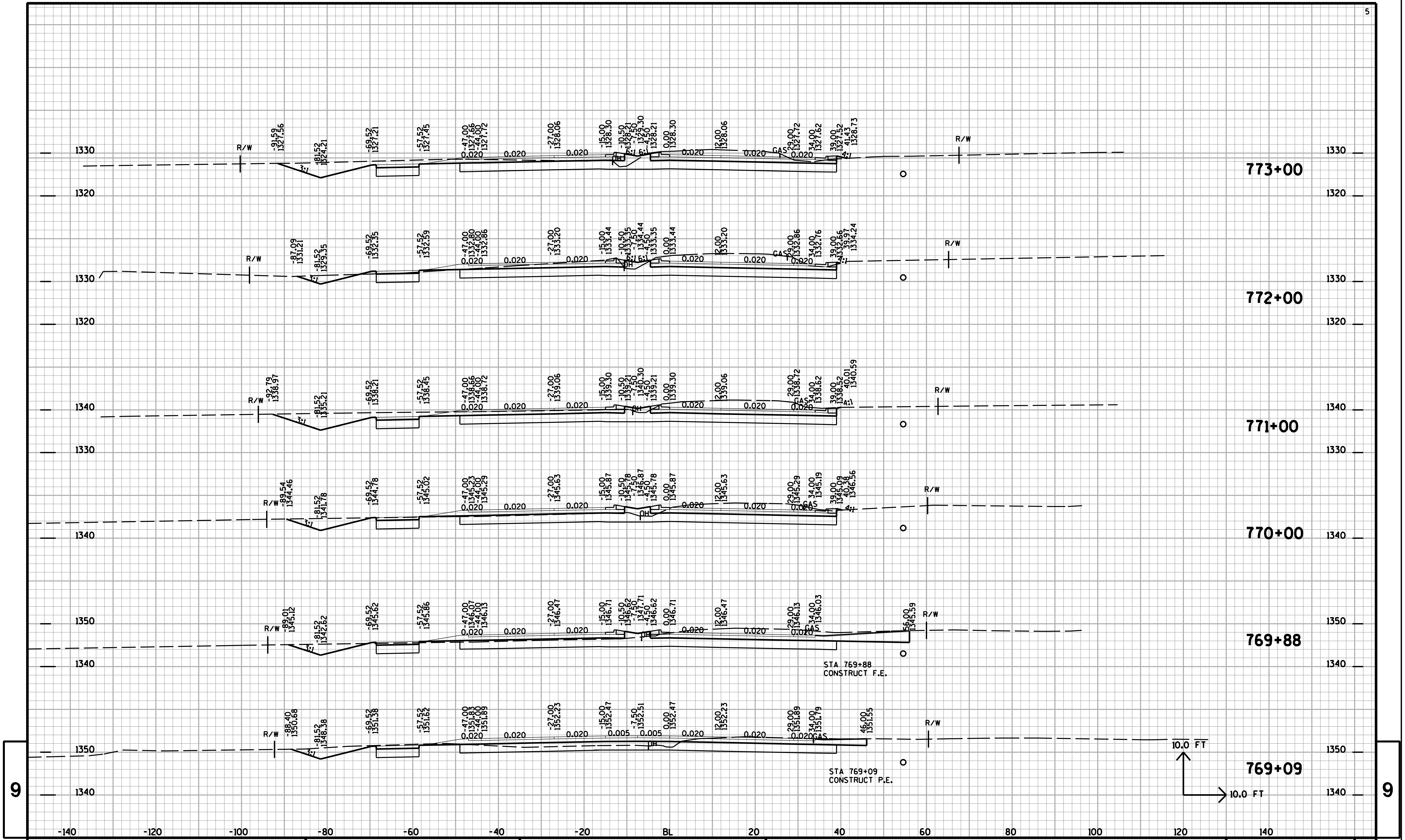

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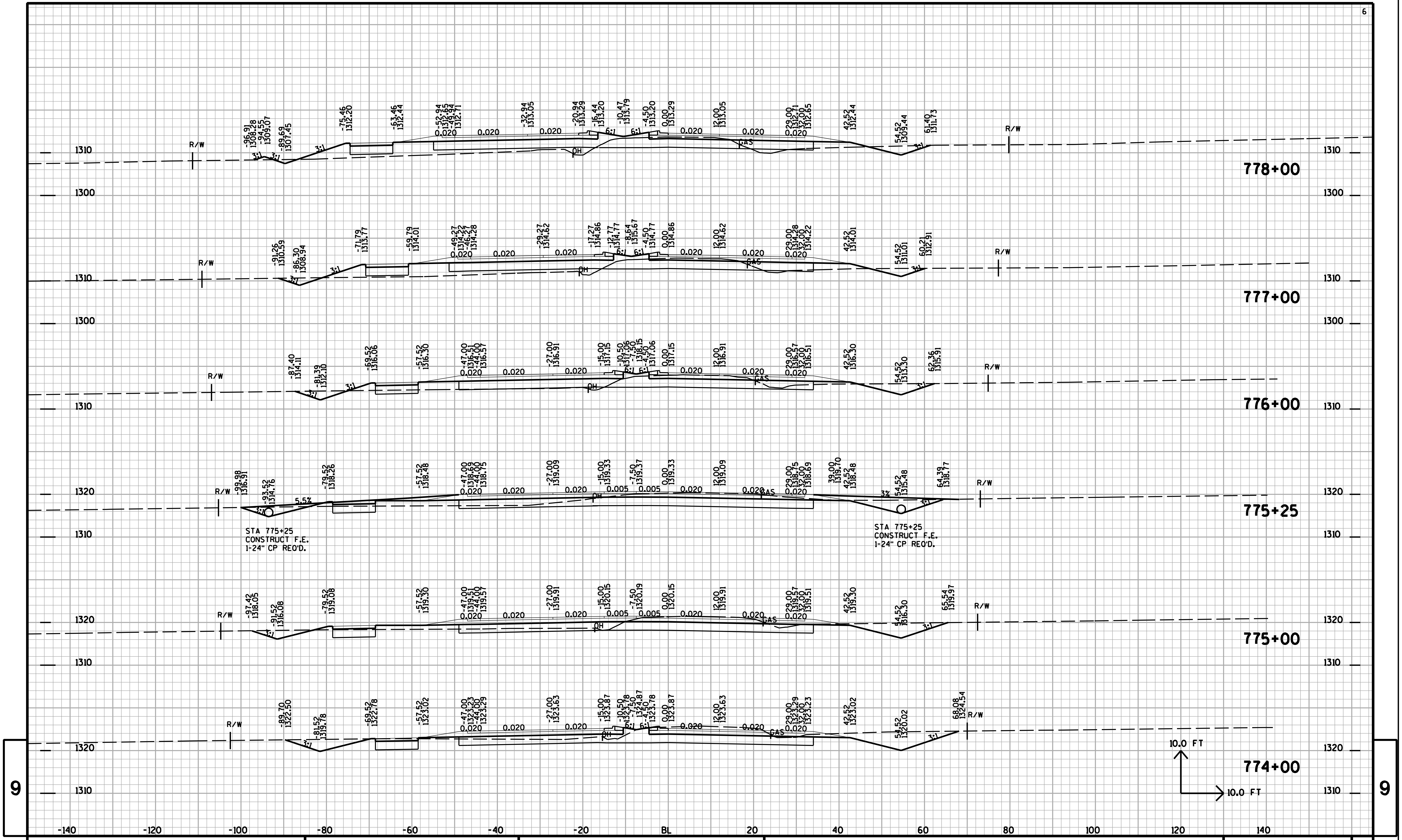
PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:28TH AVENUE	SHEET NO:	E



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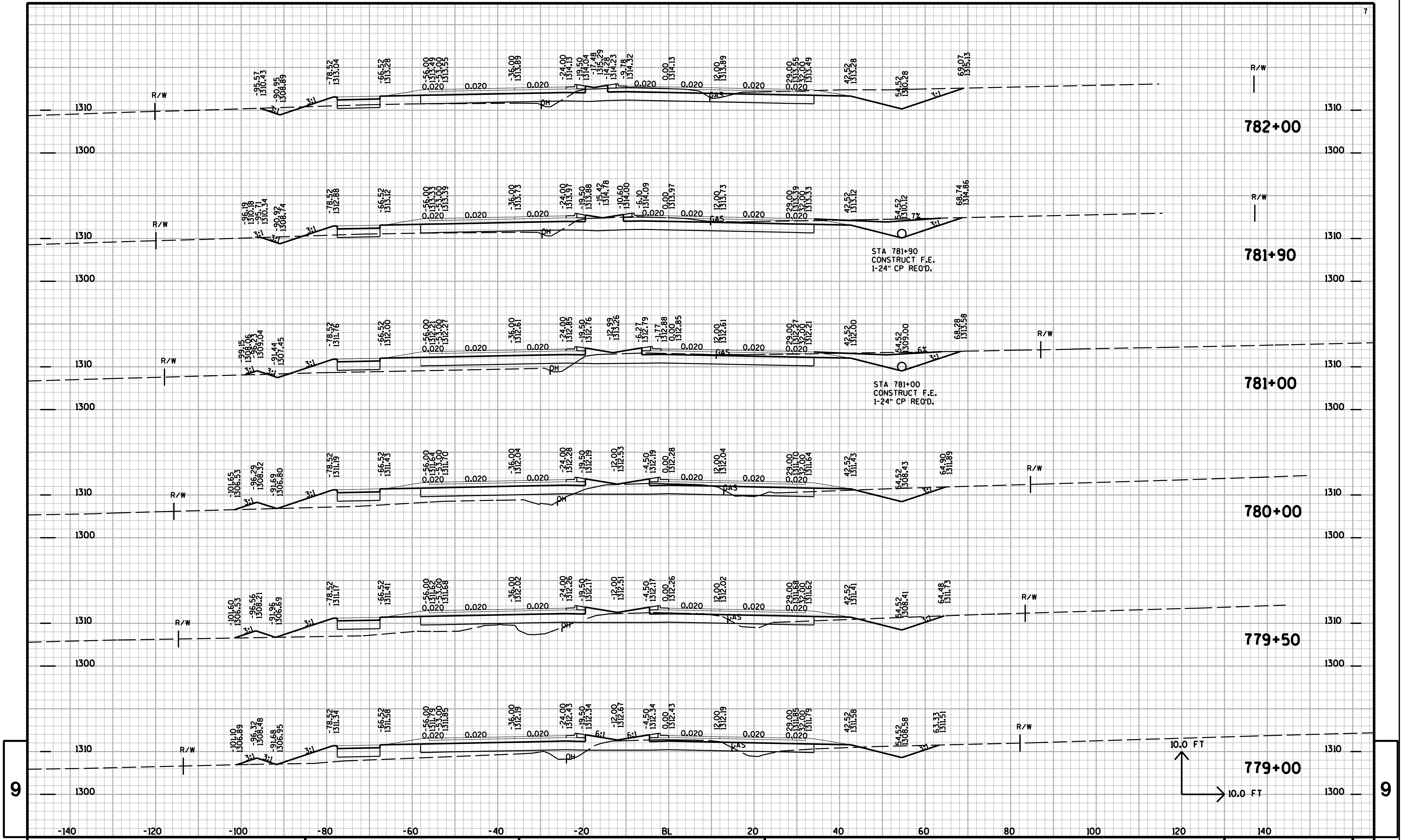
PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:28TH AVENUE	SHEET NO:	E



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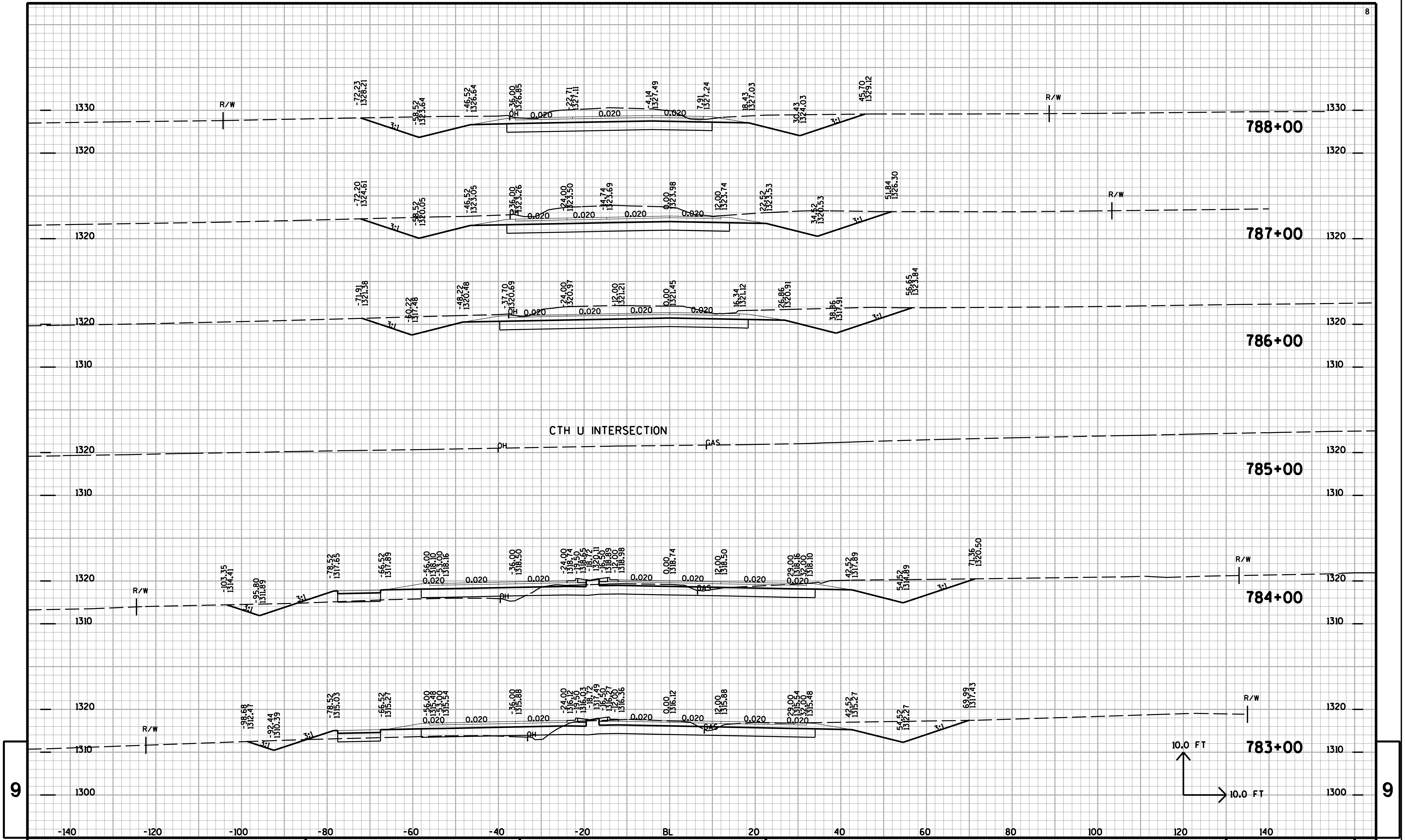
PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:28TH AVENUE	SHEET NO:	E



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PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:28TH AVENUE	SHEET NO:	E

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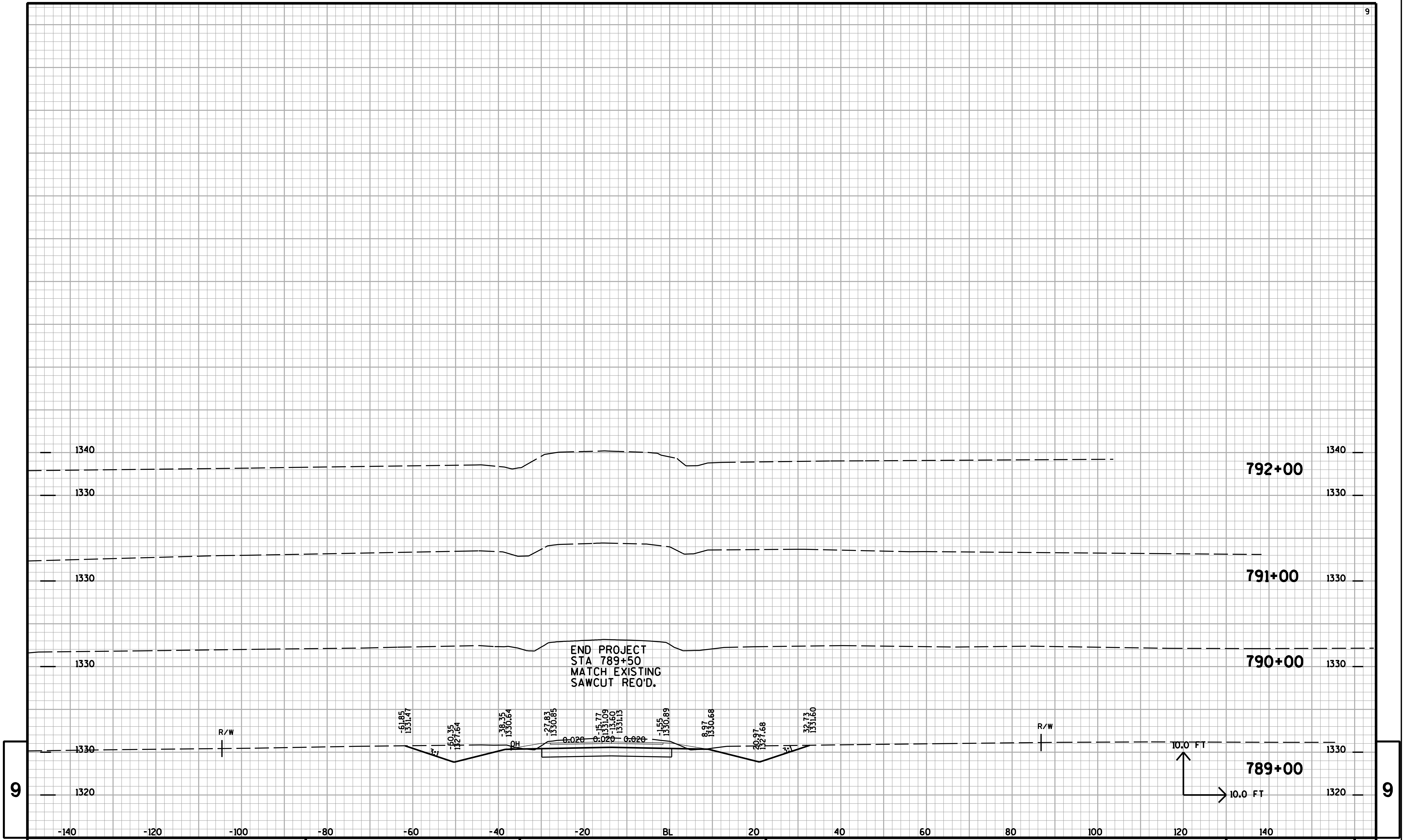
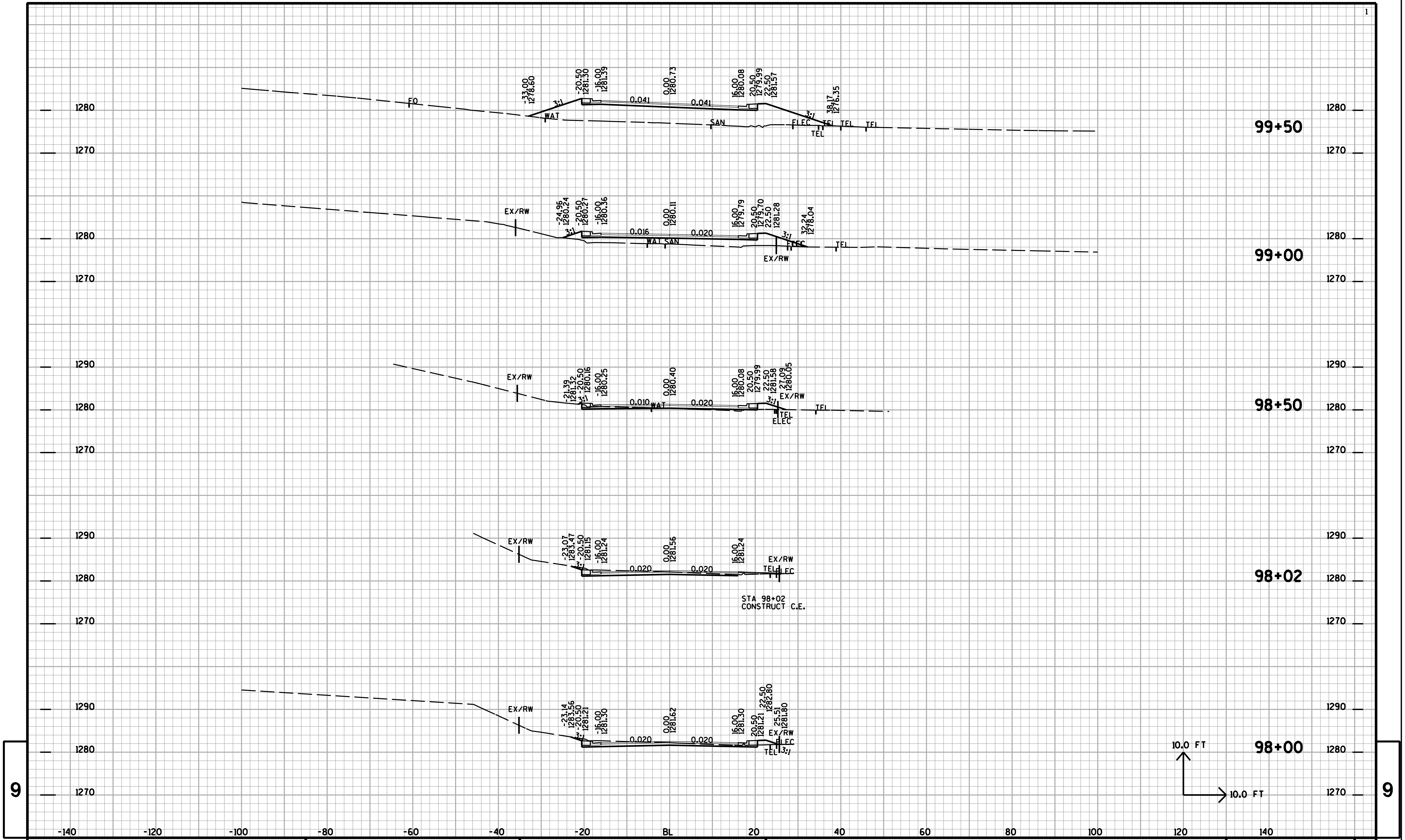


END PROJECT
STA 789+50
MATCH EXISTING
SAWCUT REQ'D.

PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:28TH AVENUE	SHEET NO:	E

FILE NAME : T:\410537\DGN\XS 28TH AVE part 2 090220.DGN PLOT DATE : 2/25/2009 PLOT BY : AYRES-EC eau_shd_util.tbl PLOT SCALE : 1:20



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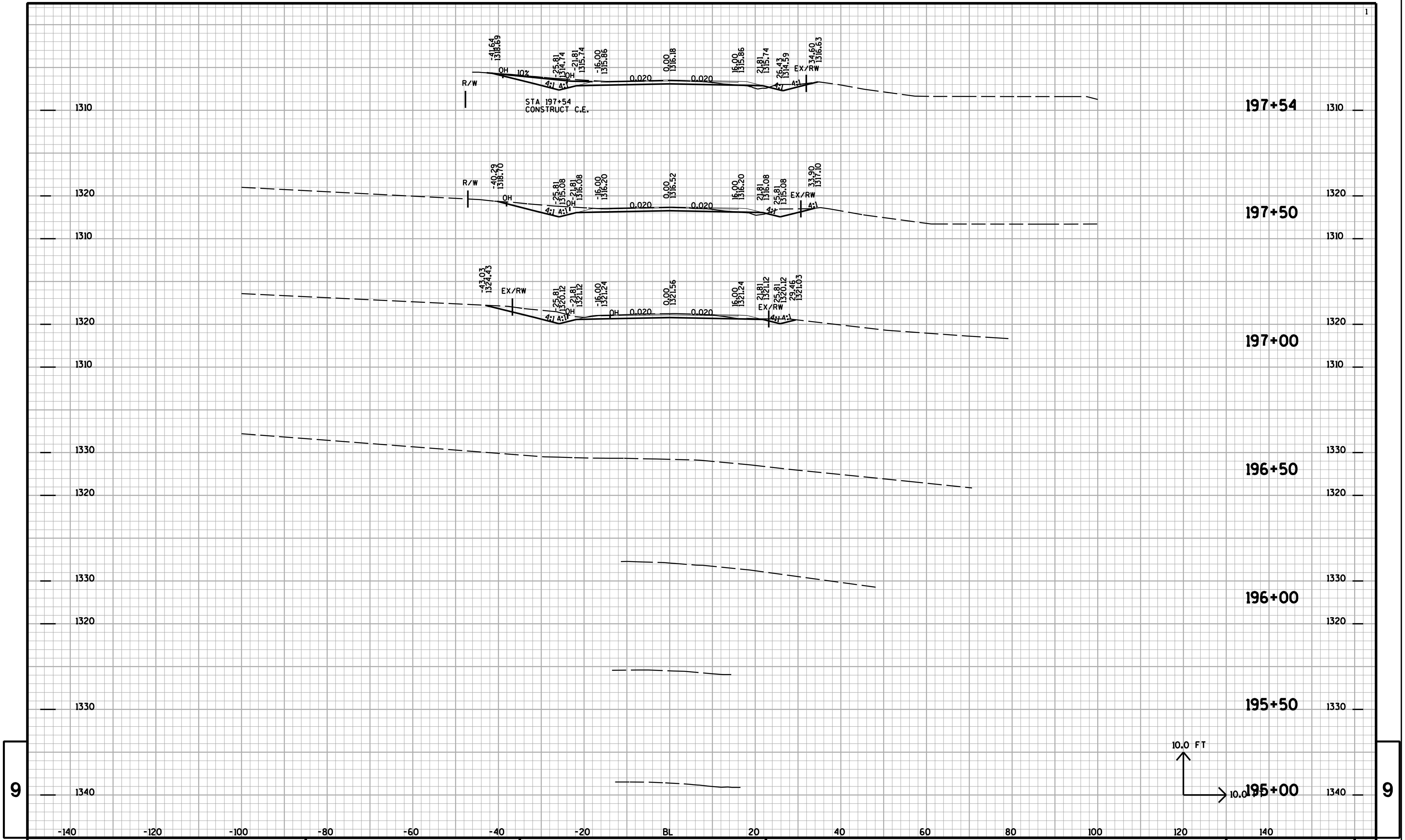
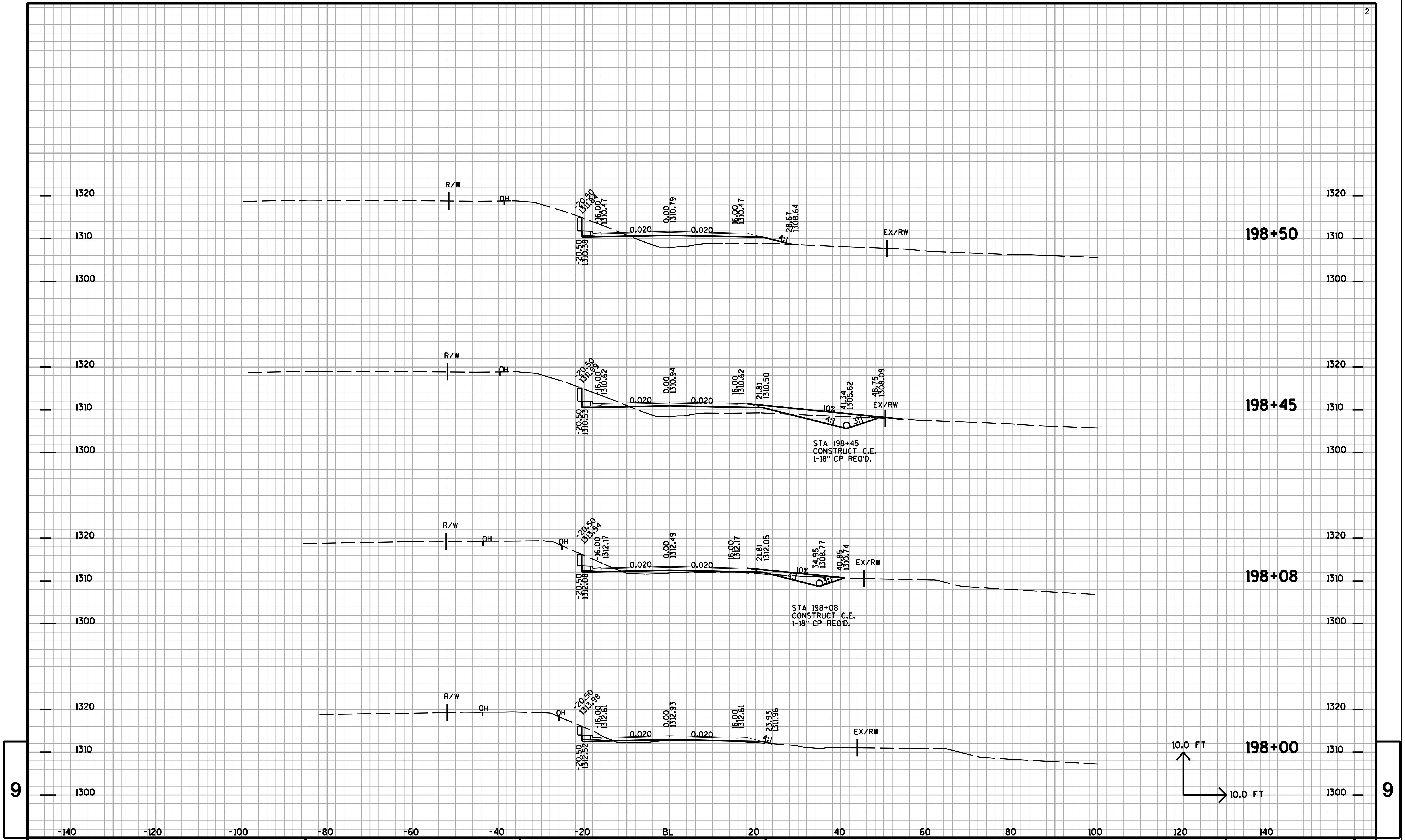
PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:WESTHILL DRIVE	SHEET NO:	E

FILE NAME : t:\410537\dgn\XS WESTHILL 090120.DGN PLOT DATE : 2/25/2009 PLOT BY : AYRES-EC eau_shd_util.tbl PLOT SCALE : 1:2

PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:WESTHILL DRIVE	SHEET NO:	E



PROJECT NO: | HWY:28TH AVENUE | COUNTY:MARATHON | CROSS SECTIONS:MADONNA DRIVE | SHEET NO: | E



PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:MADONNA DRIVE	SHEET NO:	E

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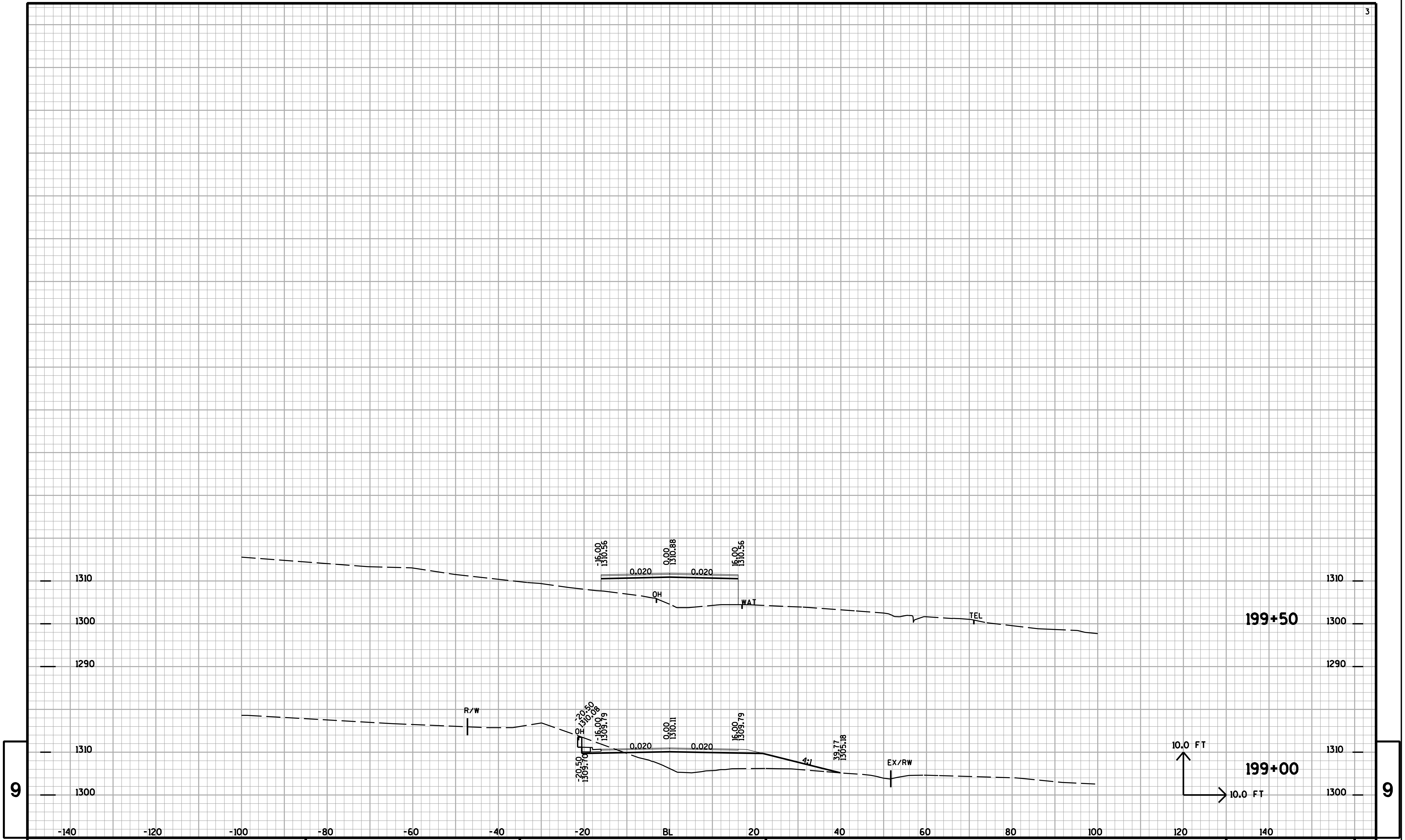

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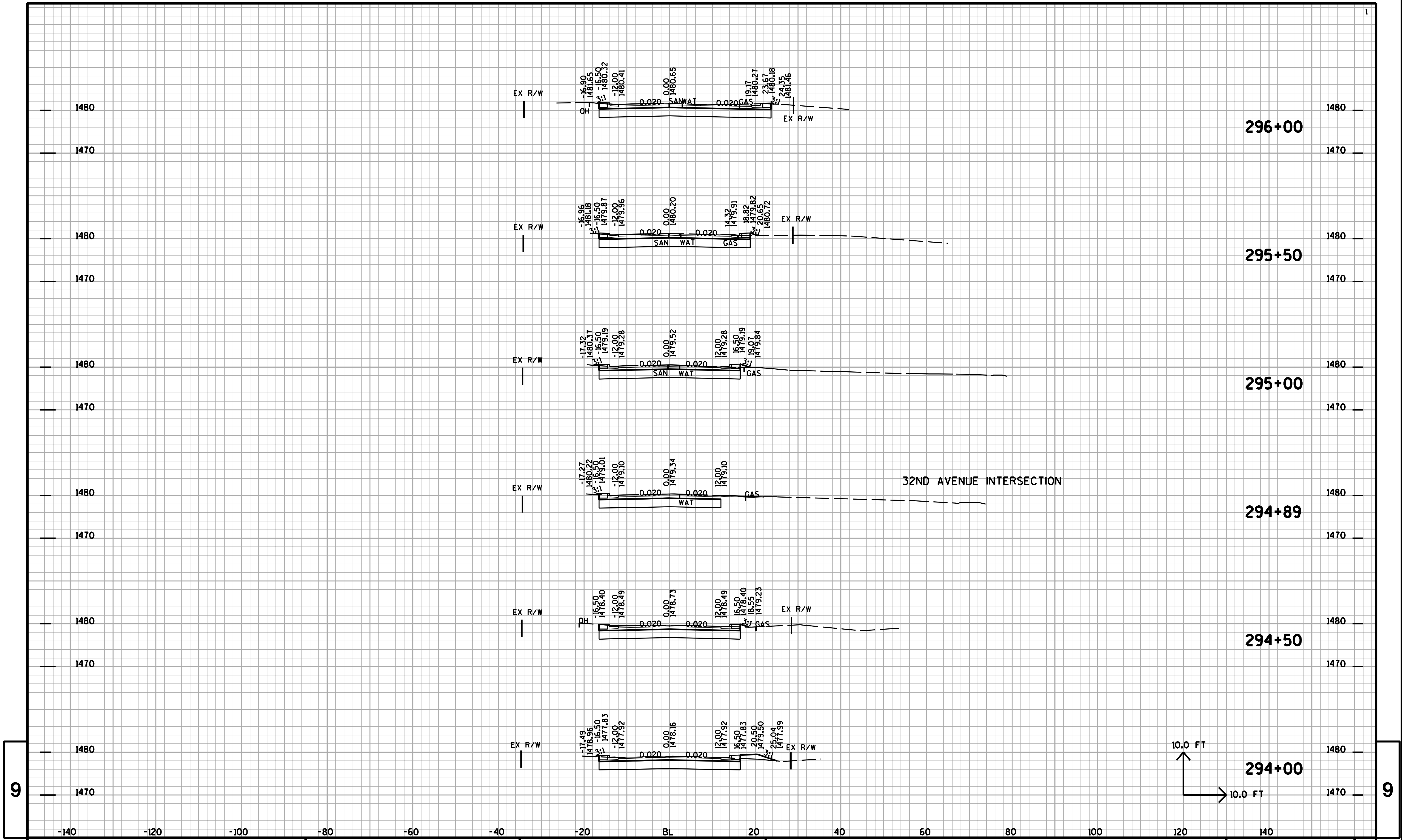
PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:MADONNA DRIVE	SHEET NO:	E



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PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:WEST WAUSAU AVENUE	SHEET NO:	E

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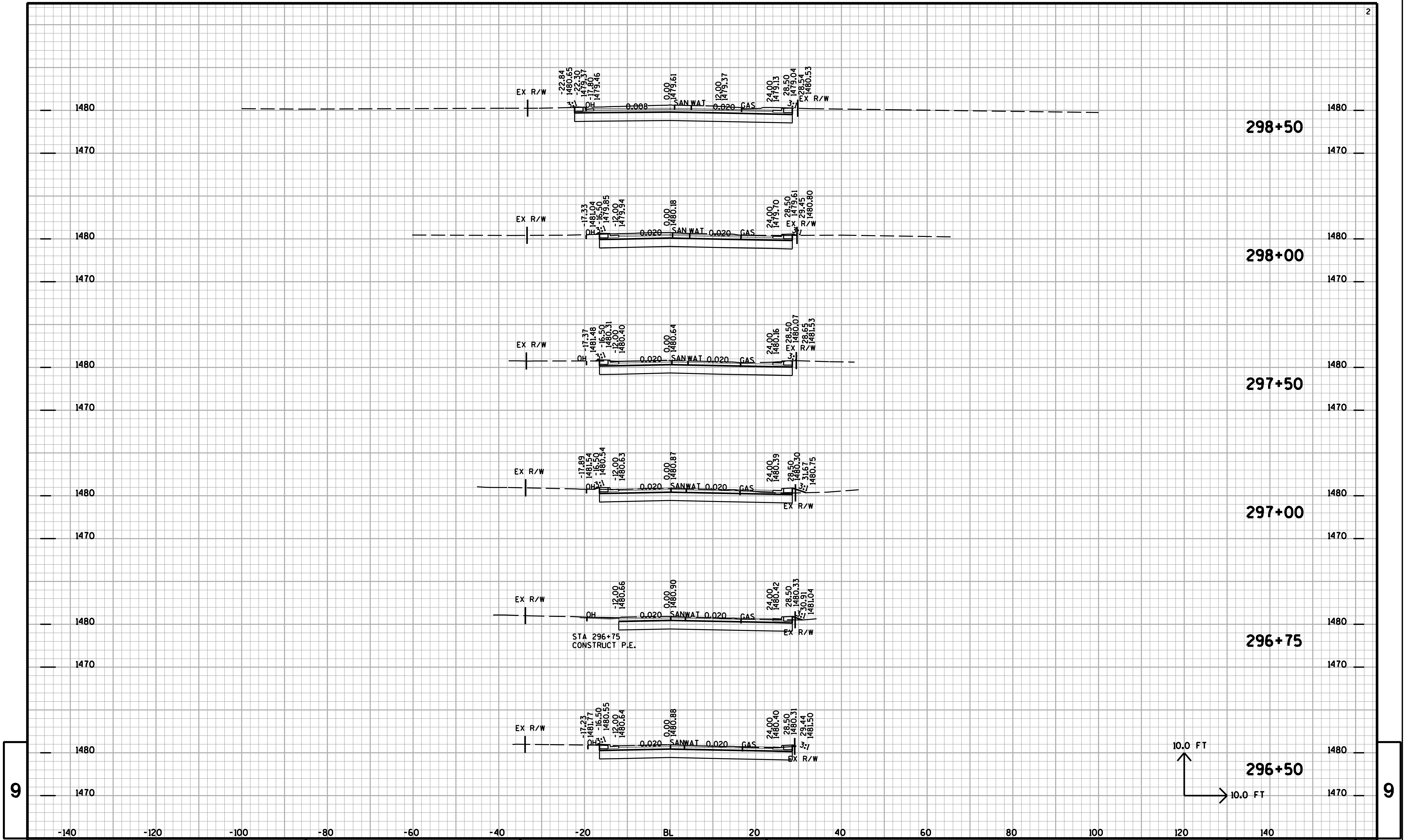

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PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:WEST WAUSAU AVENUE	SHEET NO:	E

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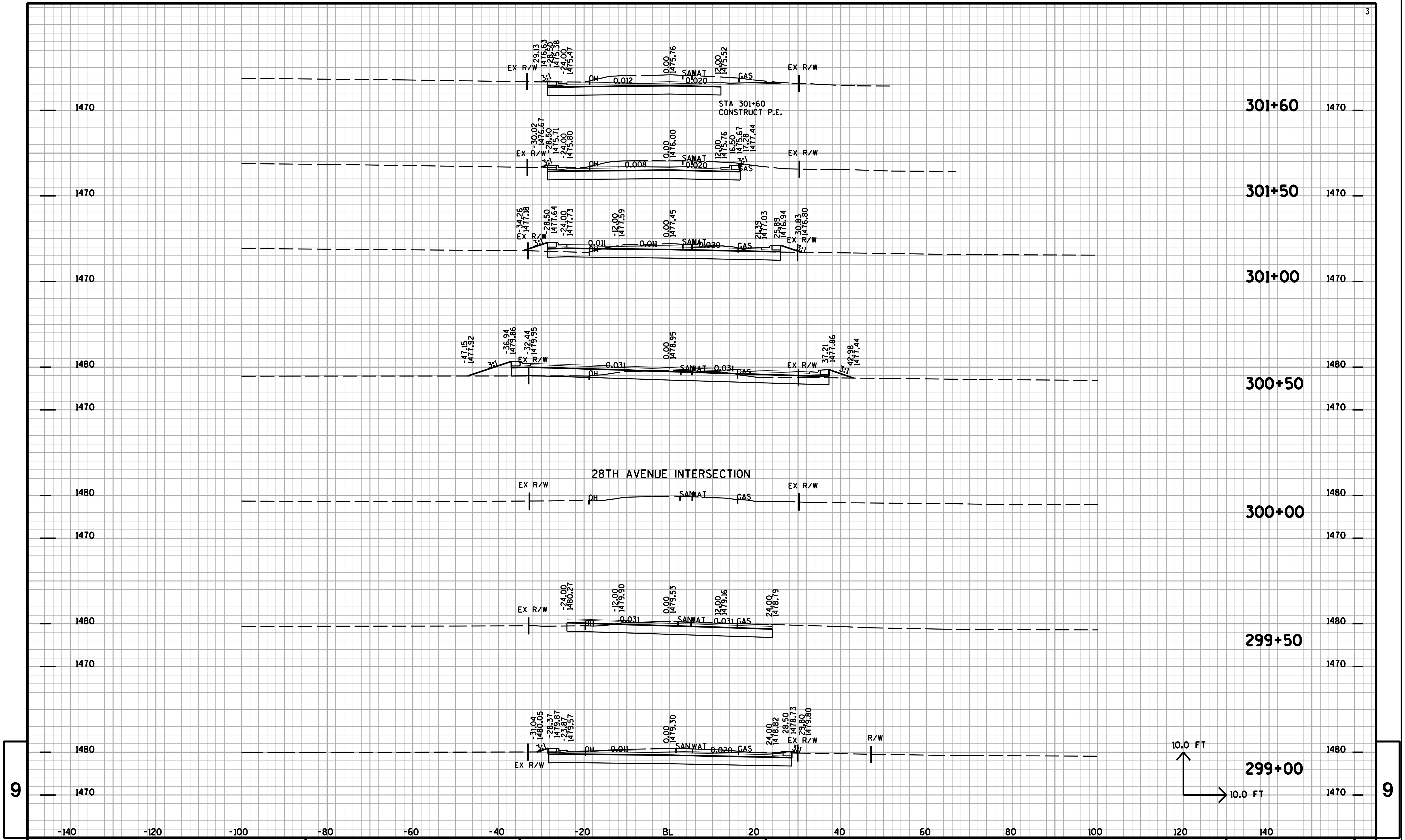
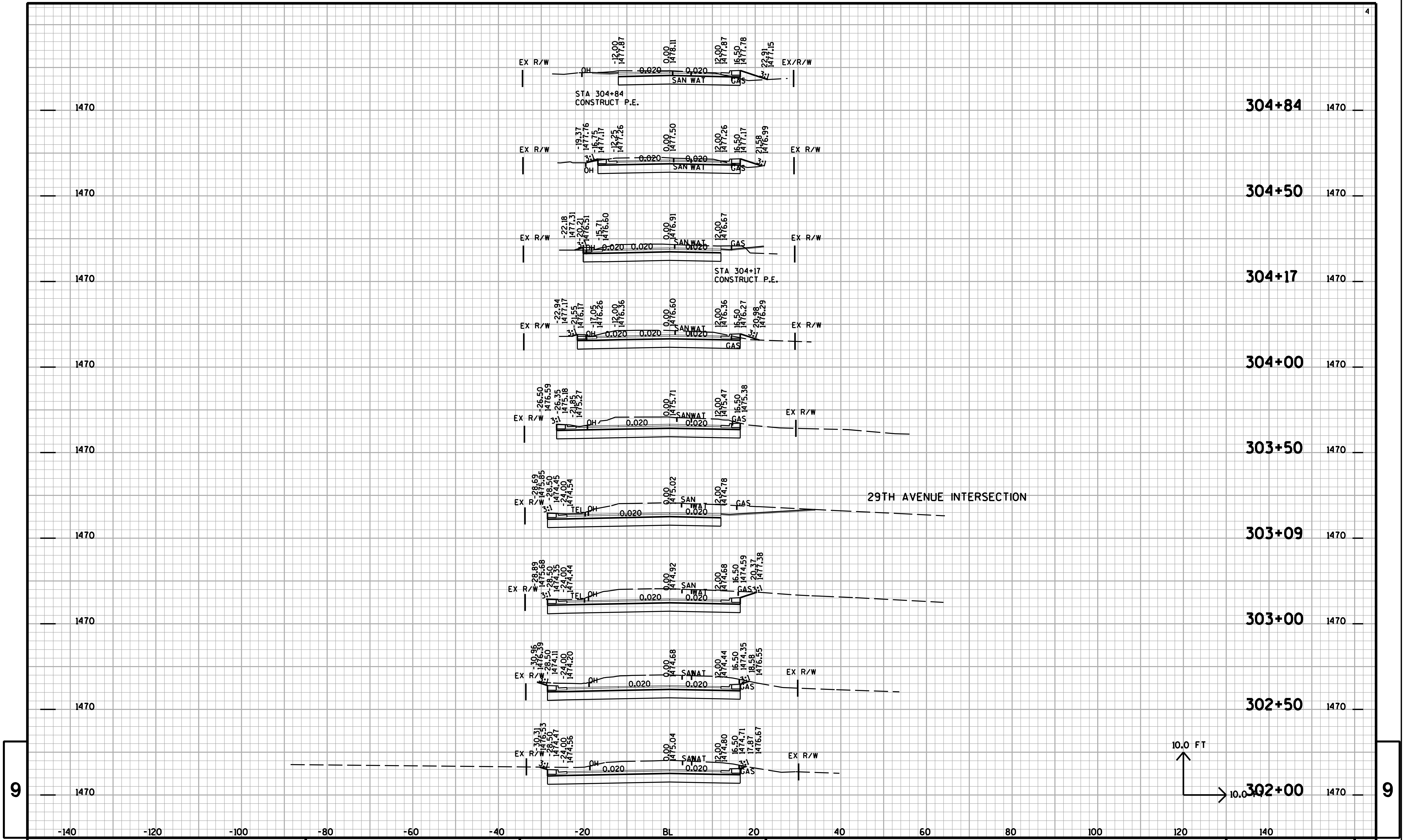


PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:WEST WAUSAU AVENUE	SHEET NO:	E

FILE NAME : t:\410537\dgn\XS WEST WAUSAU 090120.DGN PLOT DATE : 2/25/2009 PLOT BY : AYRES-EC eau_shd_util.tbl PLOT SCALE : 1:2



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PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:WEST WAUSAU AVENUE	SHEET NO:	E

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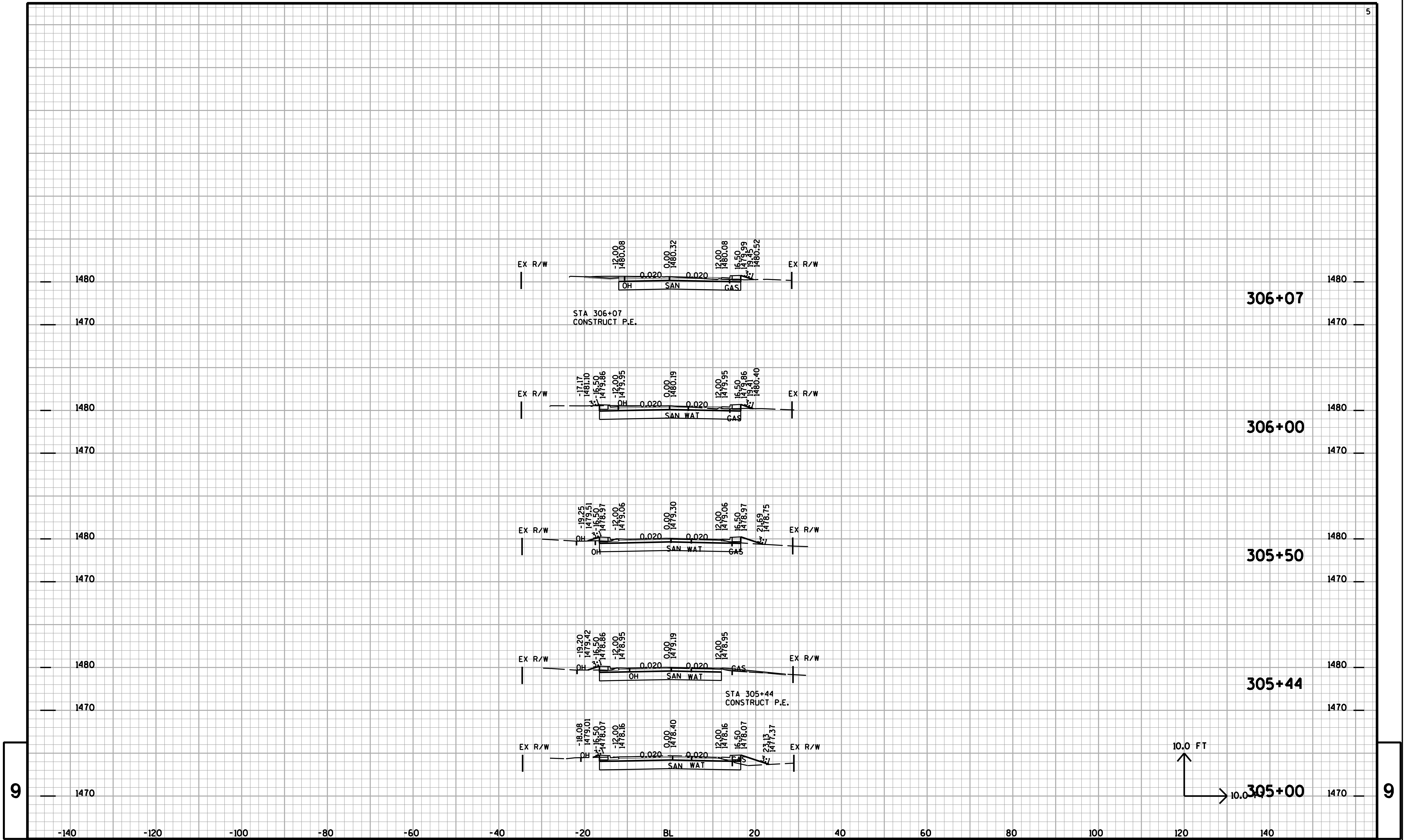

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PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:WEST WAUSAU AVENUE	SHEET NO:	E

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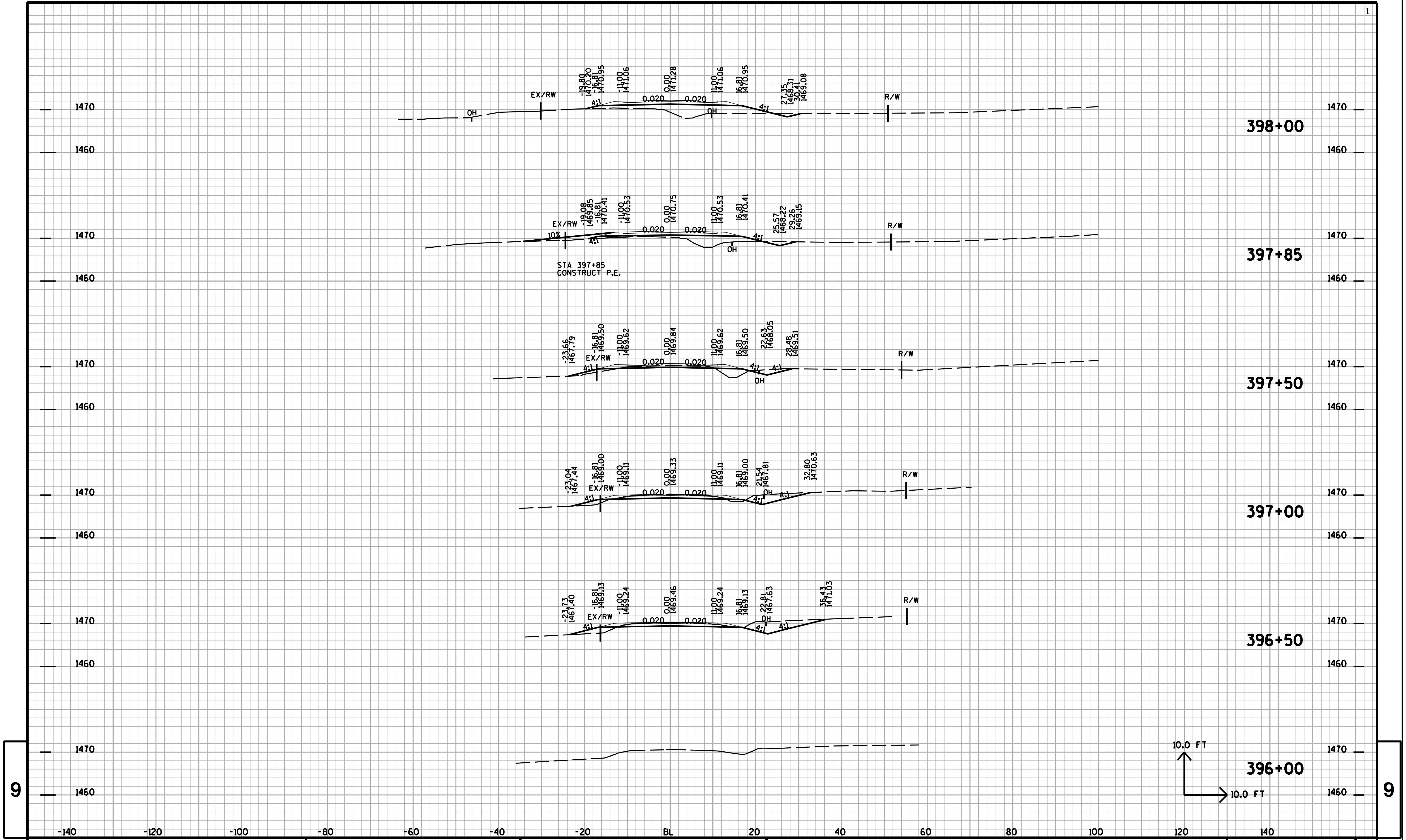
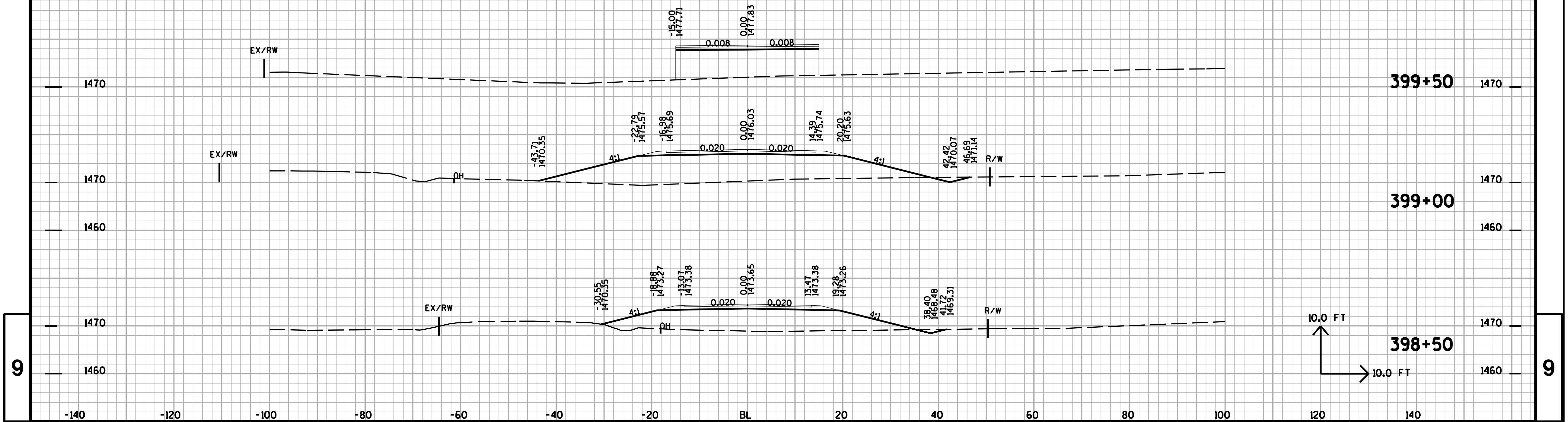


PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:APPLE LANE	SHEET NO:	E

FILE NAME : t:\410537\dgn\XS APPLE 090120.DGN PLOT DATE : 2/25/2009 PLOT BY : AYRES-EC eau_shd_util.tbl PLOT SCALE : 1:2



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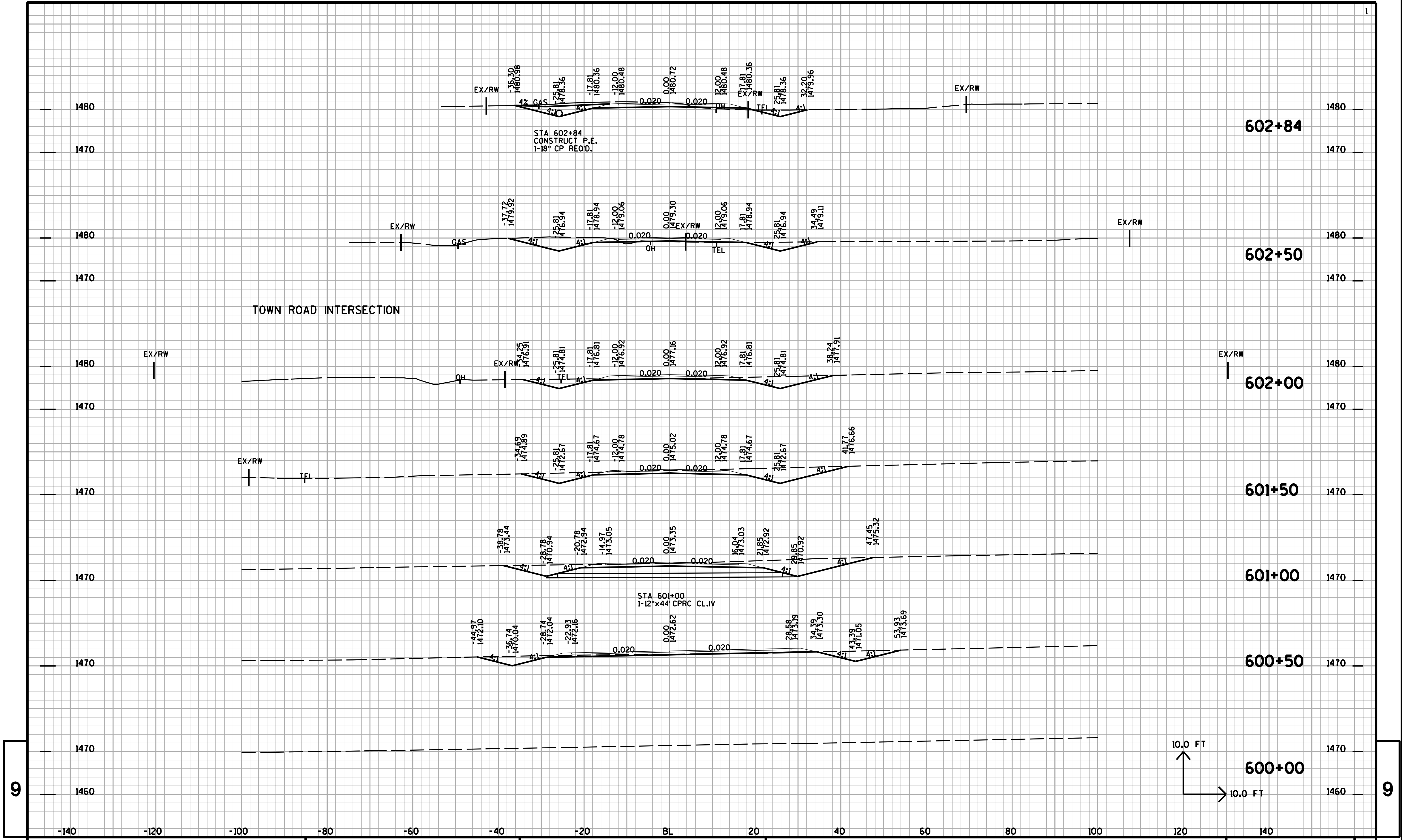
PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:APPLE LANE	SHEET NO:	E

FILE NAME : t:\410537\dgn\XS APPLE 090120.DGN PLOT DATE : 2/25/2009 PLOT BY : AYRES-EC eau_shd_util.tbl PLOT SCALE : 1:2



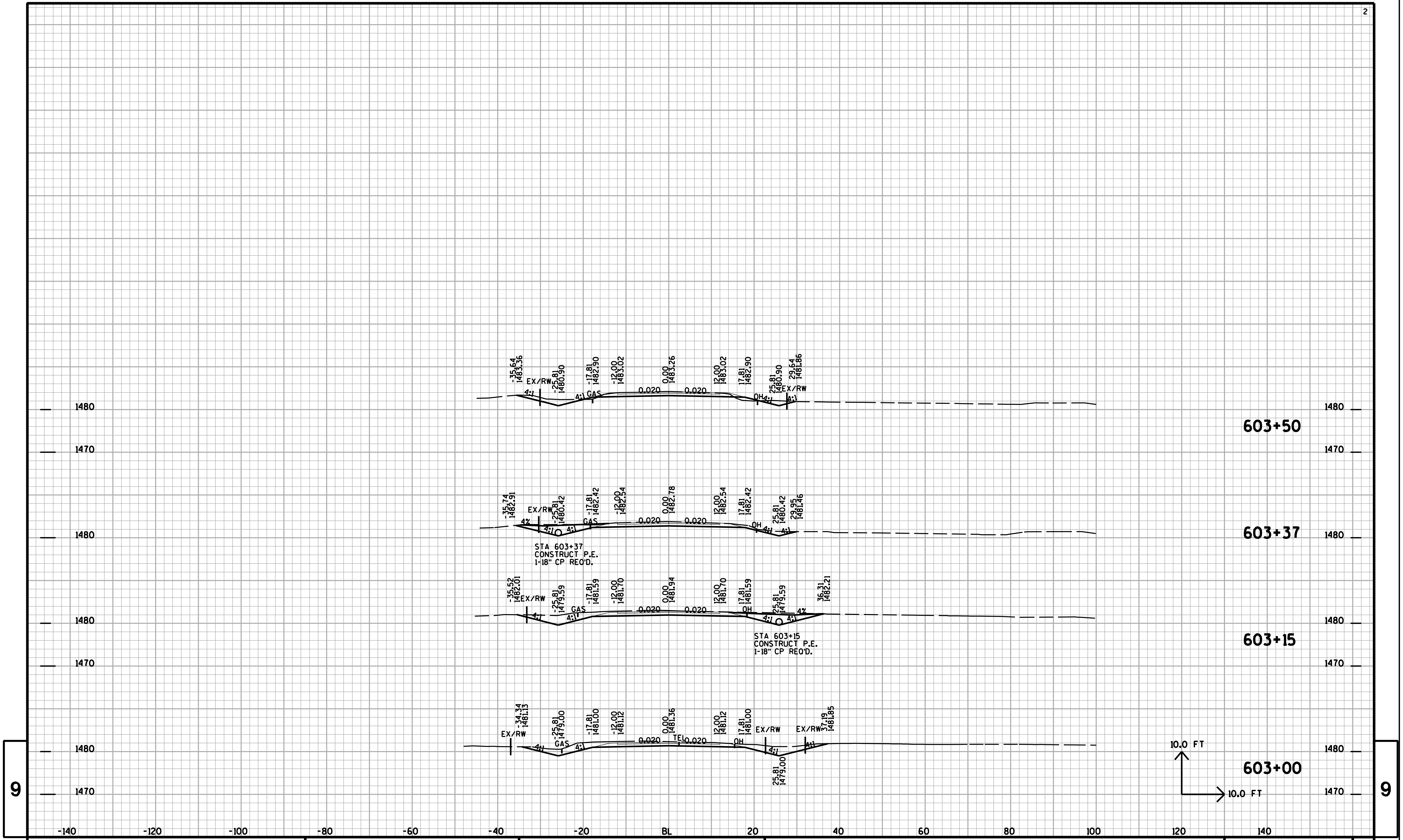
STA 602+84
CONSTRUCT P.E.
1-18" CP REQ'D.

TOWN ROAD INTERSECTION

STA 601+00
1-12"x44' CPRC CL.IV

PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:28TH AVENUE CONNECTION	SHEET NO:	E

FILE NAME : T:\410537\DGN\XS 28TH AVE CONNECTION 090120.DGN PLOT DATE : 2/25/2009 PLOT BY : AYRES-EC eau_shd_util.tbl PLOT SCALE : 1:2



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PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:28TH AVENUE CONNECTION	SHEET NO:	E

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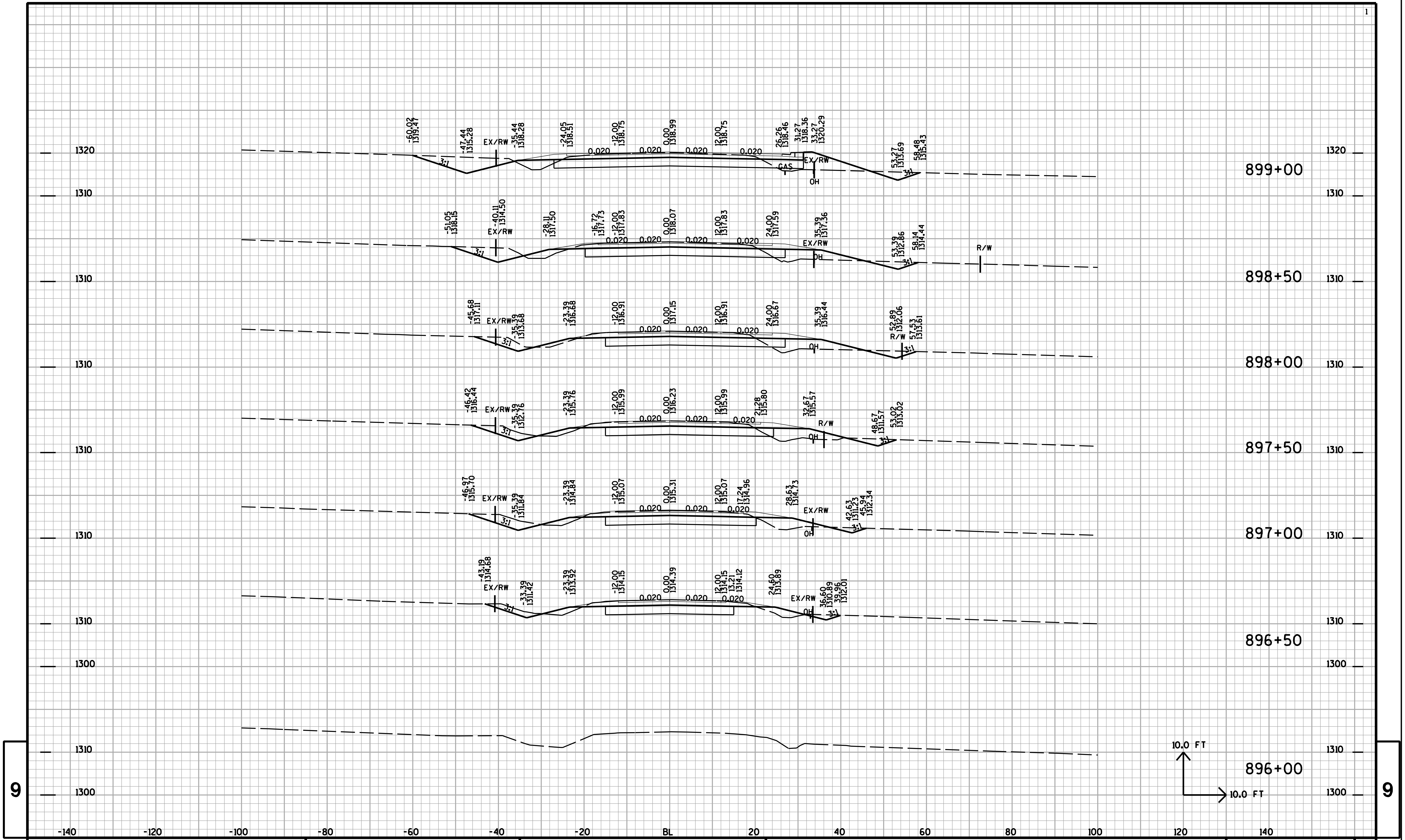

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PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:CTH U	SHEET NO:	E

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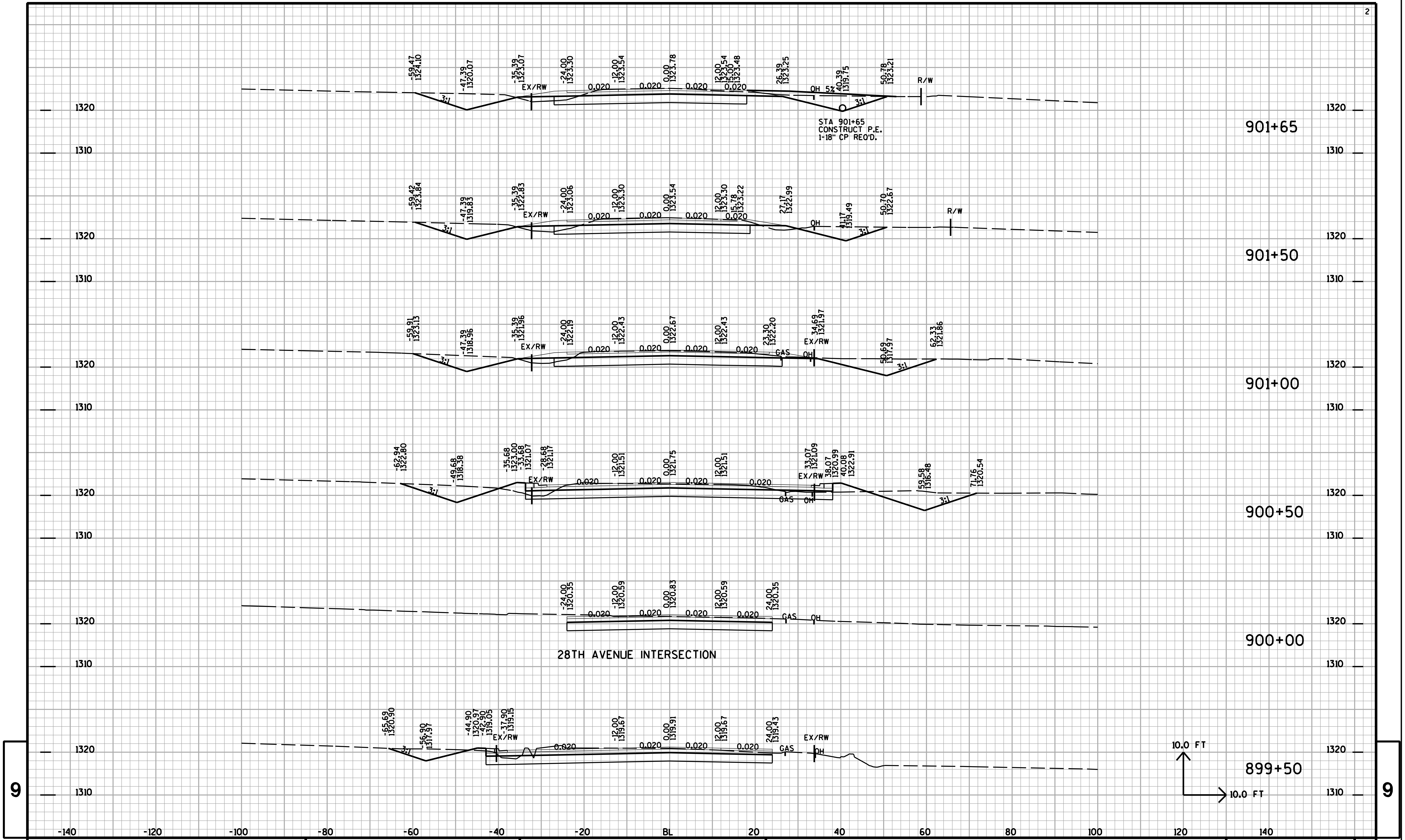

PROJECT NO: | HWY:28TH AVENUE | COUNTY:MARATHON | CROSS SECTIONS:CTH U | SHEET NO: | E

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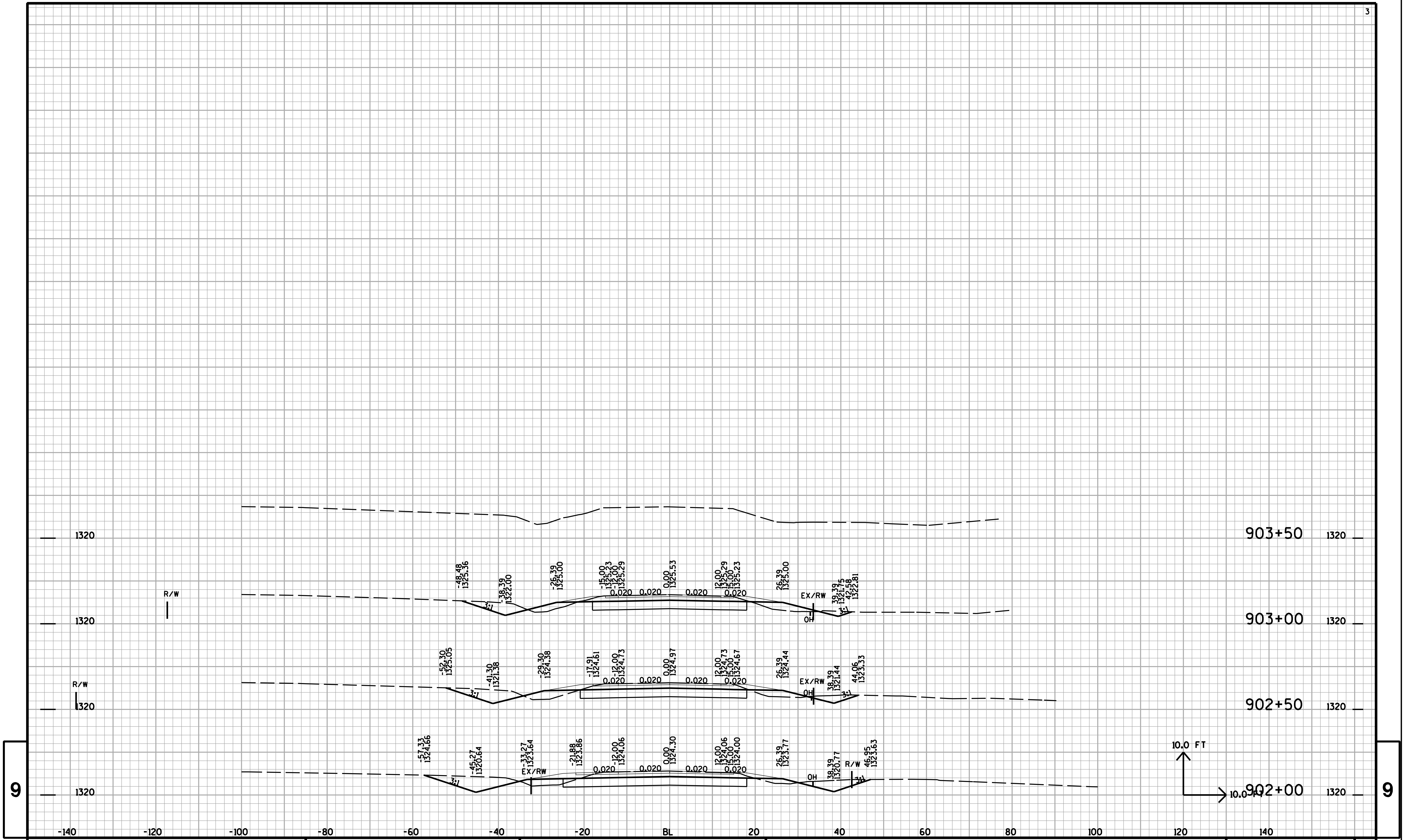

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PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:CTH U	SHEET NO:	E

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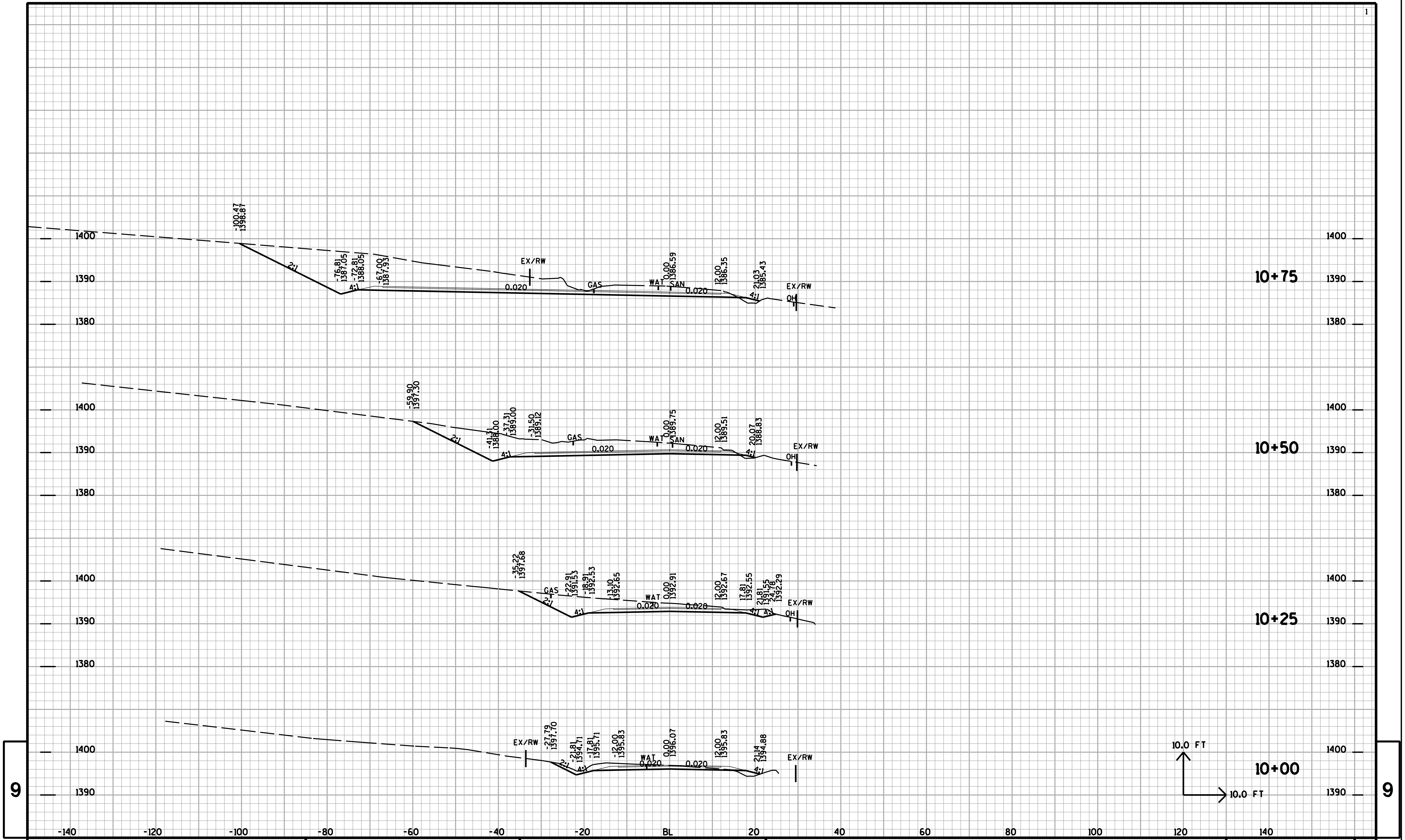

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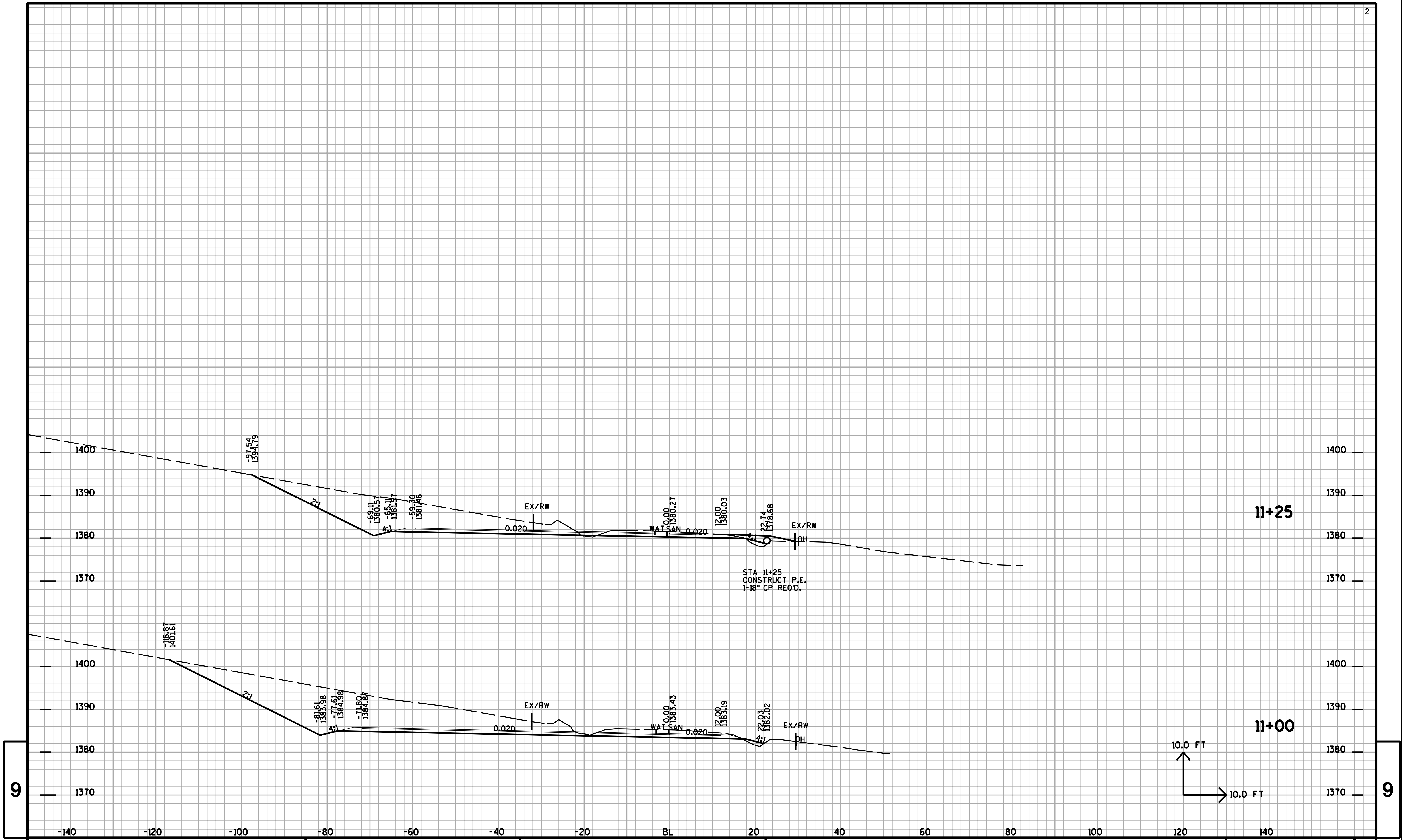
PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:MAPLE HILL DRIVE	SHEET NO:	E

FILE NAME : t:\410537\dgn\XS MAPLE HILL 090120.DGN PLOT DATE : 2/25/2009 PLOT BY : AYRES-EC eau_shd_util.tbl PLOT SCALE : 1:2



PROJECT NO: | HWY:28TH AVENUE | COUNTY:MARATHON | CROSS SECTIONS:MAPLE HILL DRIVE | SHEET NO: | E

FILE NAME : t:\410537\dgn\XS MAPLE HILL 090120.DGN PLOT DATE : 2/25/2009 PLOT BY : AYRES-EC eau_shd_util.tbl PLOT SCALE : 1:2

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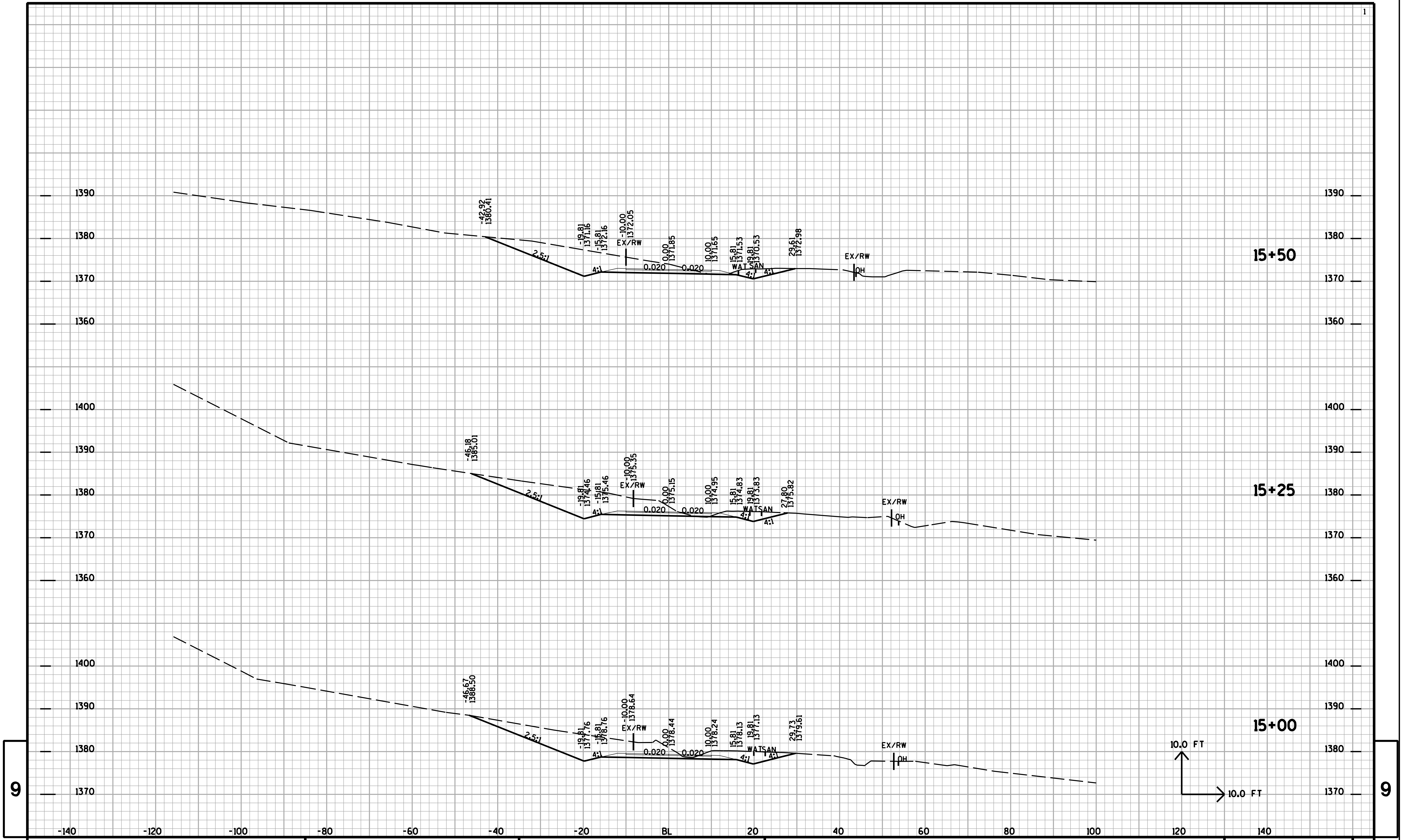

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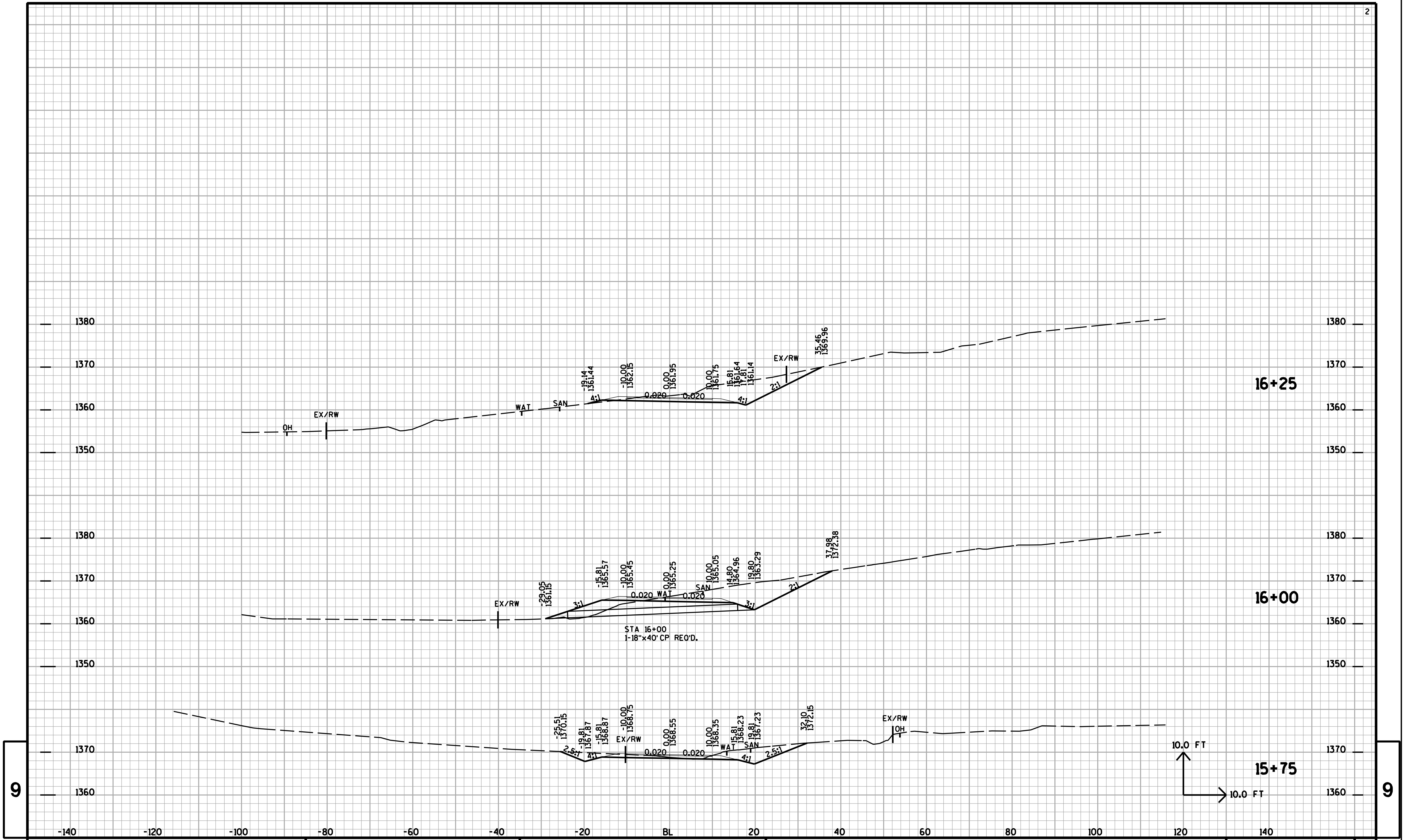
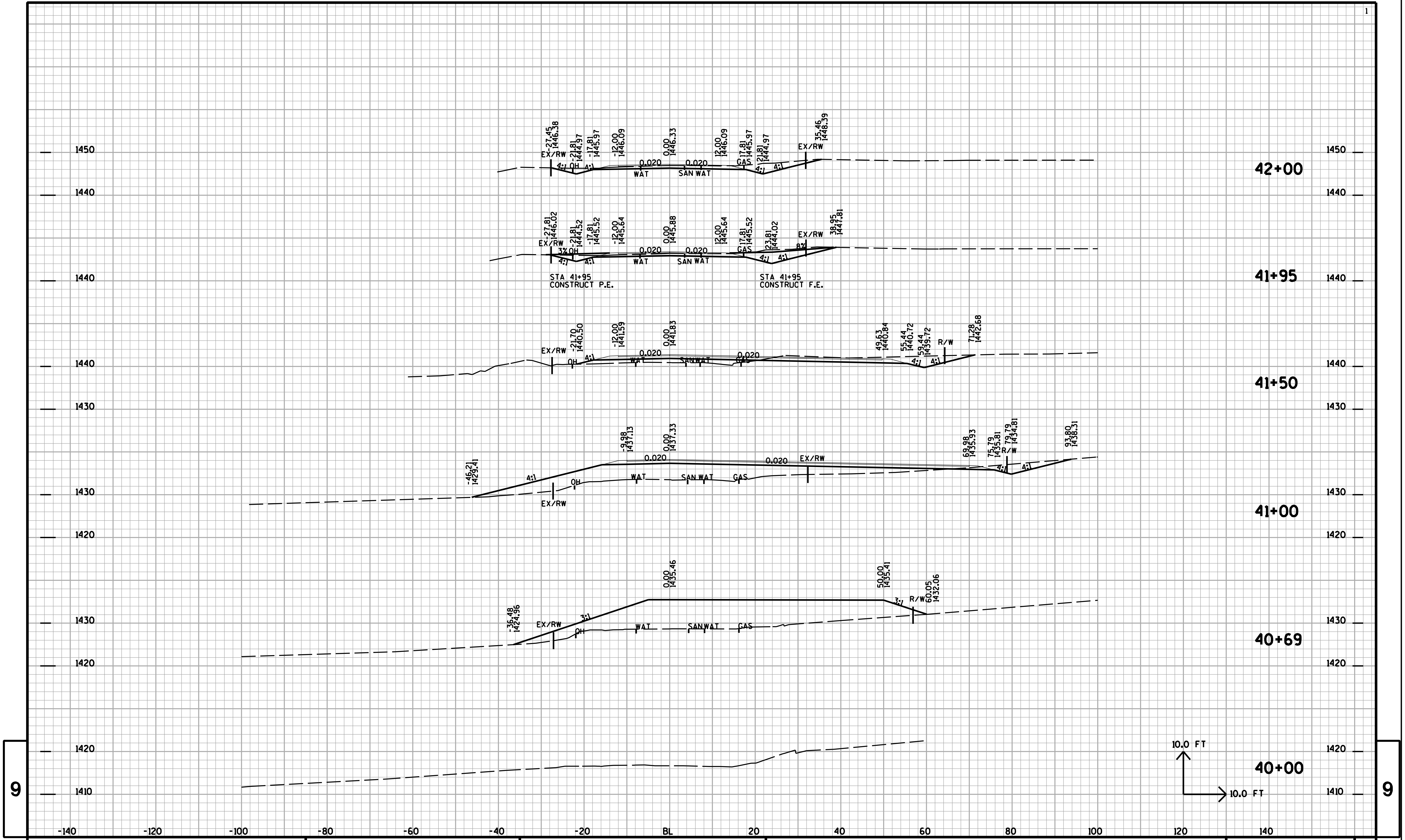
PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:MAPLE HILL DRIVEWAY	SHEET NO:	E

FILE NAME : t:\410537\dgn\XS MAPLE HILL DRIVEWAY 090120.DGN PLOT DATE : 2/25/2009 PLOT BY : AYRES-EC eau_shd_util.tbl PLOT SCALE : 1:2



PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:MAPLE HILL DRIVEWAY	SHEET NO:	E

FILE NAME : t:\410537\dgn\XS MAPLE HILL DRIVEWAY 090120.DGN PLOT DATE : 2/25/2009 PLOT BY : AYRES-EC eau_shd_util.tbl PLOT SCALE : 1:2



PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:28TH AVENUE SOUTH CUL-DE-SAC	SHEET NO:	E

FILE NAME : t:\410537\dgn\XS 28TH AVE SOUTH CUL DE SAC 090120.DGN PLOT DATE : 2/25/2009 PLOT BY : AYRES-EC eau_shd_util.tbl PLOT SCALE : 1:2

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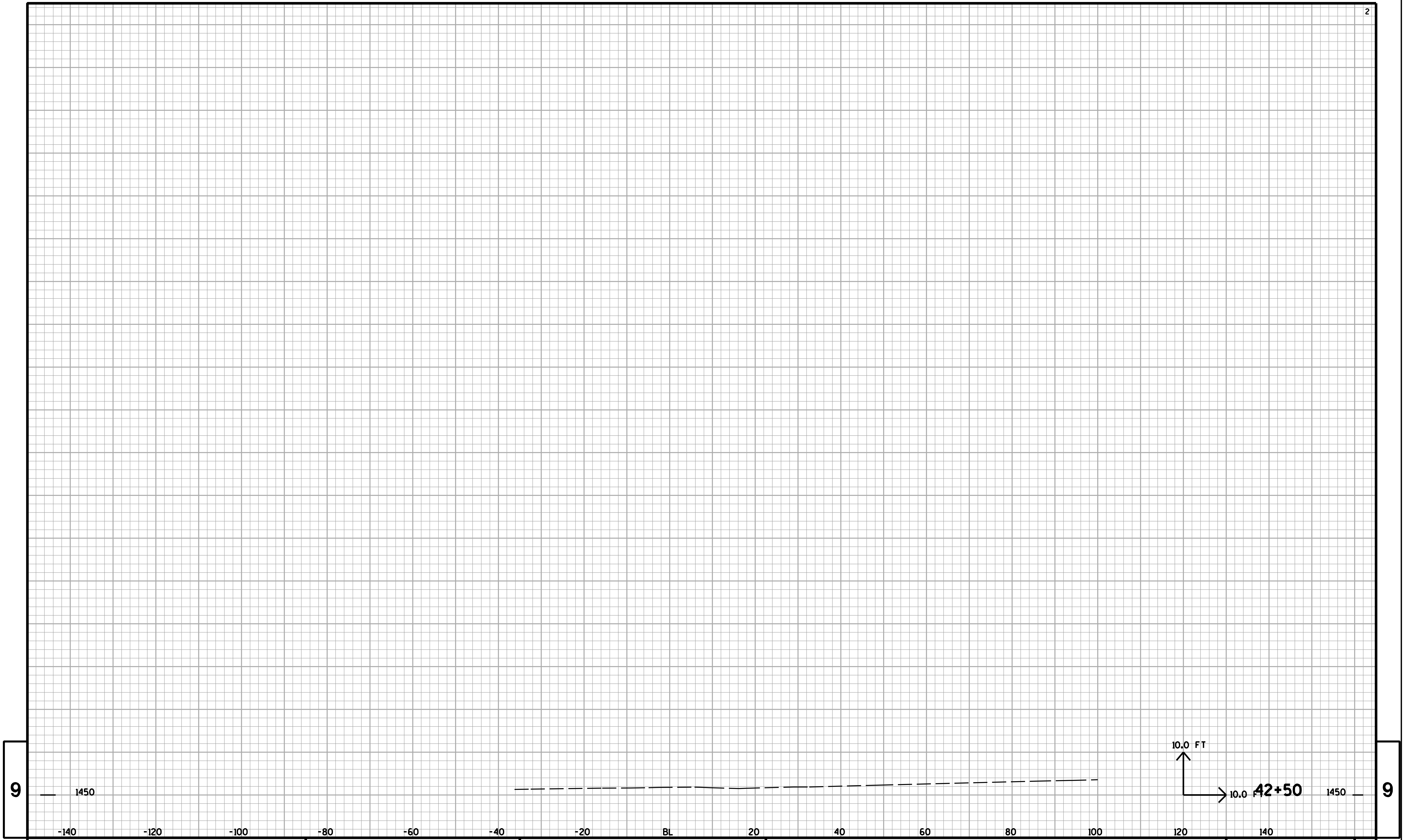

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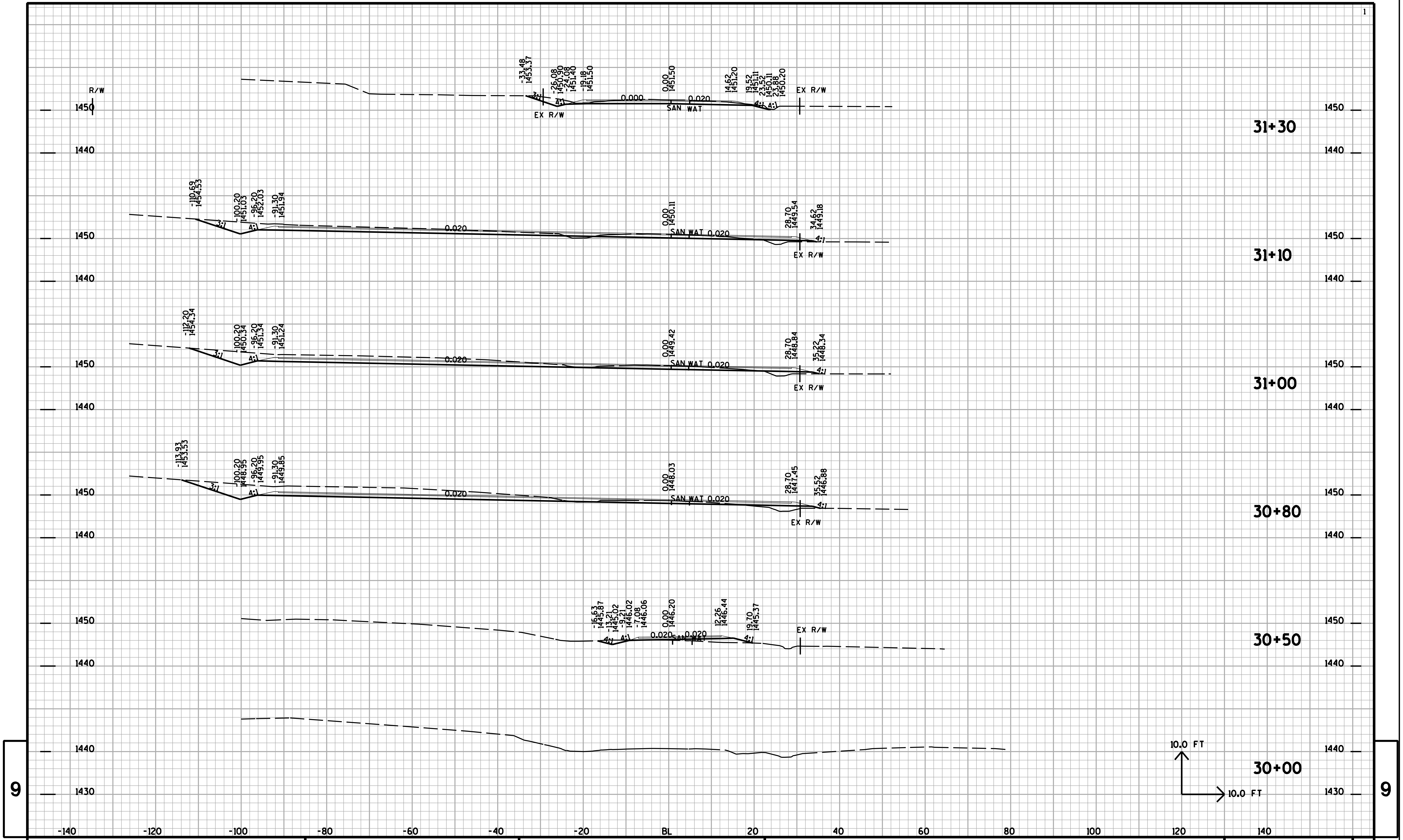
PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:28TH AVENUE SOUTH CUL-DE-SAC	SHEET NO:	E

FILE NAME : t:\410537\dgn\XS 28TH AVE SOUTH CUL DE SAC 090120.DGN PLOT DATE : 2/25/2009 PLOT BY : AYRES-EC eau_shd_util.tbl PLOT SCALE : 1:2



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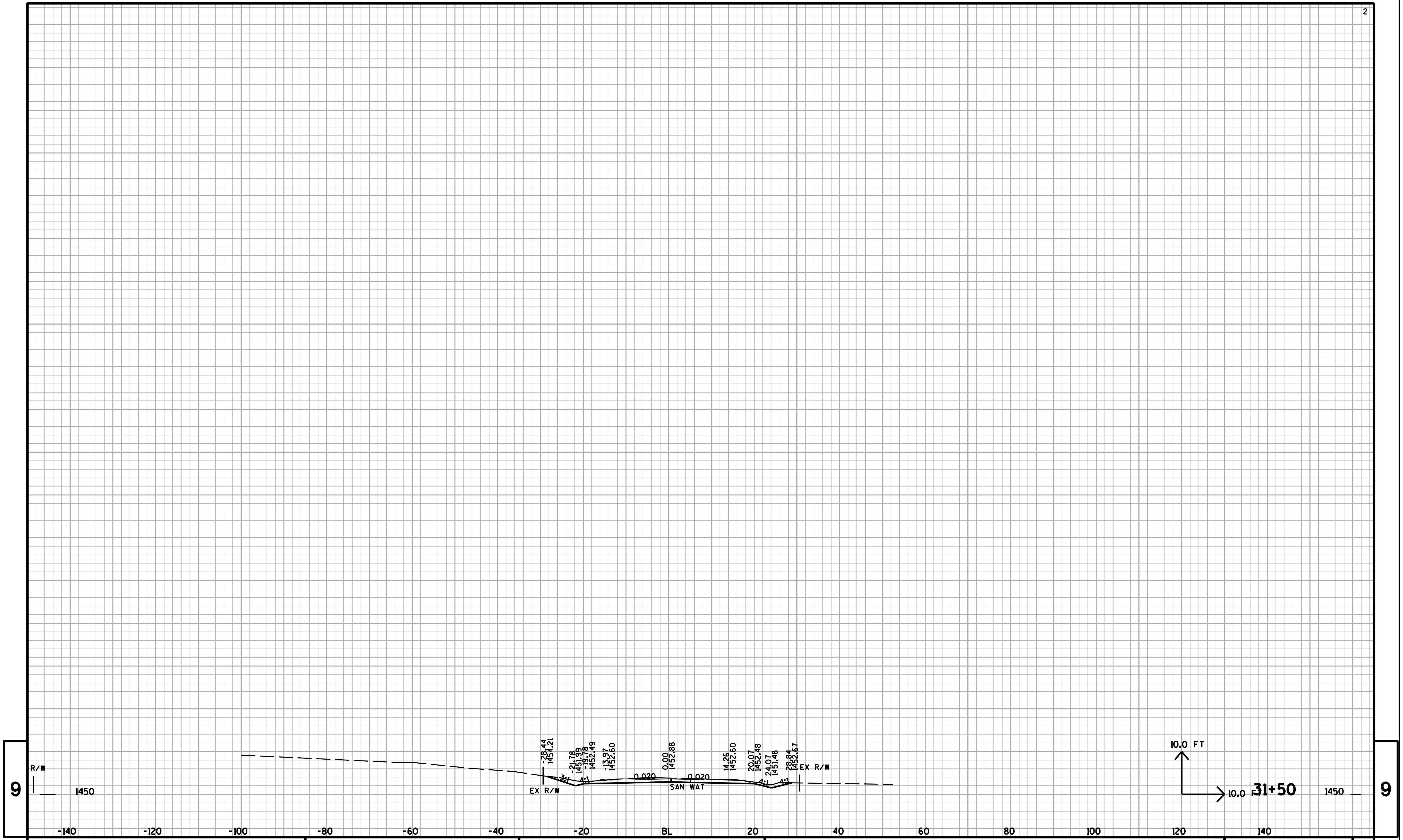
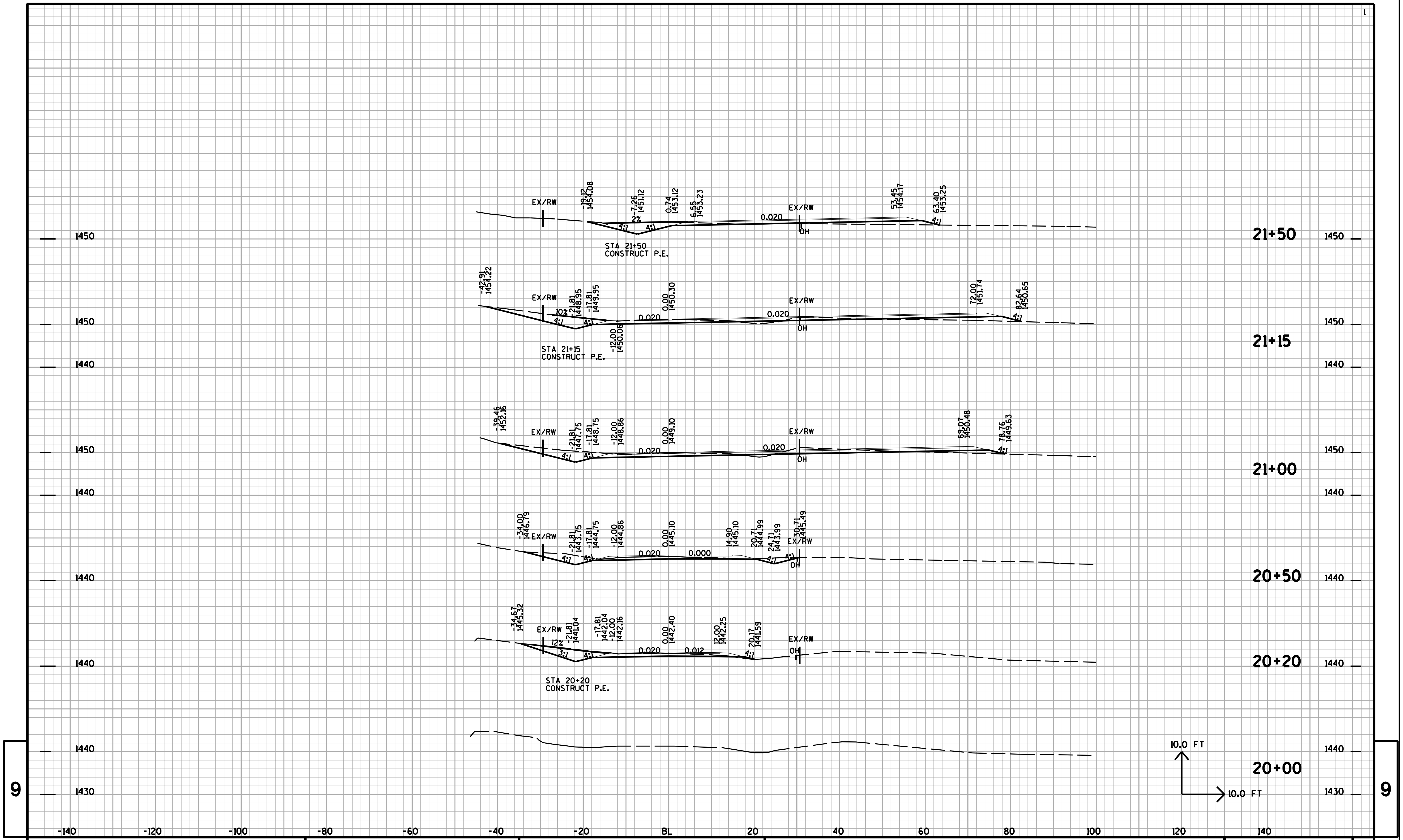
PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:29TH AVENUE CUL-DE-SAC	SHEET NO:	E

FILE NAME : t:\410537\dgn\XS 29TH AVE CUL DE SAC 090220.DGN PLOT DATE : 2/25/2009 PLOT BY : AYRES-EC eau_shd_util.tbl PLOT SCALE : 1:2



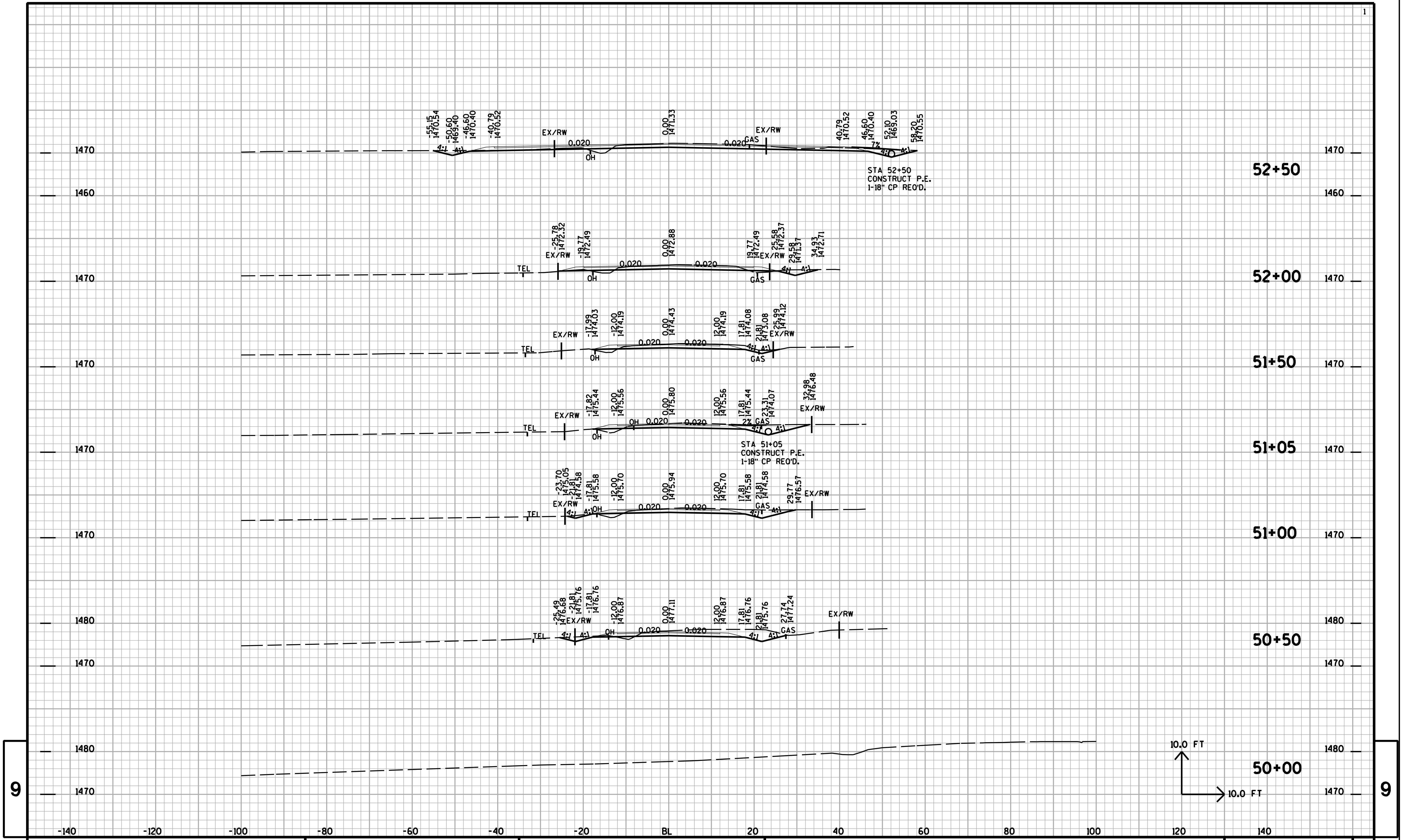
PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:29TH AVENUE CUL-DE-SAC	SHEET NO:	E

FILE NAME : t:\410537\dgn\XS 29TH AVE CUL DE SAC 090220.DGN PLOT DATE : 2/25/2009 PLOT BY : AYRES-EC eau_shd_util.tbl PLOT SCALE : 1:2



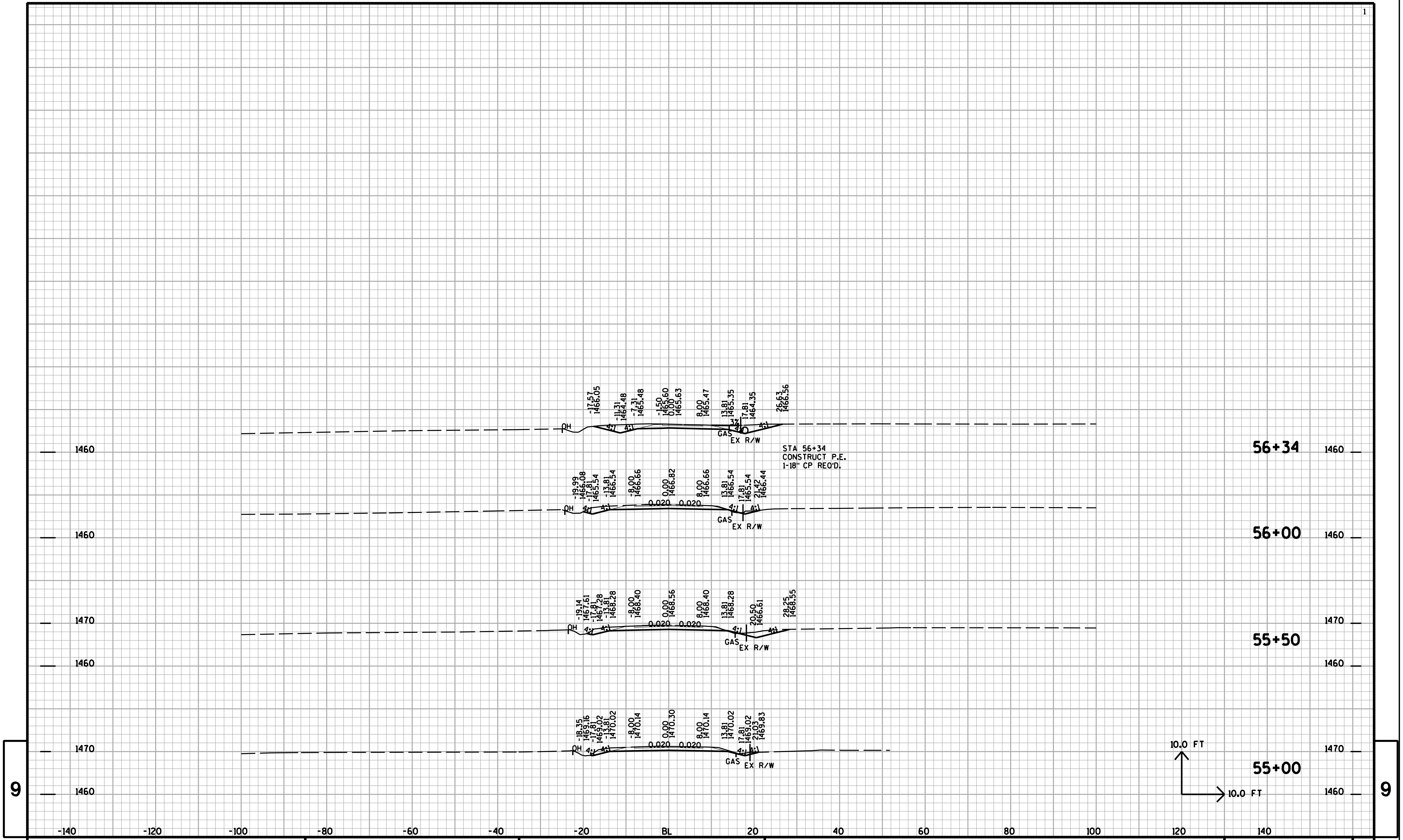
PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:30TH AVENUE CUL-DE-SAC	SHEET NO:	E

FILE NAME : t:\410537\dgn\XS 30TH AVE CUL DE SAC 090120.DGN PLOT DATE : 2/25/2009 PLOT BY : AYRES-EC eau_shd_util.tbl PLOT SCALE : 1:2



PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:TOWN ROAD CUL-DE-SAC	SHEET NO:	E

FILE NAME : t:\410537\dgn\XS TOWN ROAD CUL DE SAC 090120.DGN PLOT DATE : 2/25/2009 PLOT BY : AYRES-EC eau_shd_util.tbl PLOT SCALE : 1:2



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PROJECT NO:	HWY:28TH AVENUE	COUNTY:MARATHON	CROSS SECTIONS:TOWN ROAD DRIVEWAY	SHEET NO:	E

FILE NAME : t:\410537\dgn\XS TOWN ROAD DRIVEWAY 090220.DGN PLOT DATE : 2/25/2009 PLOT BY : AYRES-EC eau_shd_util.tbl PLOT SCALE : 1:2