

MAD
PROJECT ID:
1204-05-76

1204-05-76

COUNTY:
IOWA & DANE

NOVEMBER 2020

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 Plan
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 = 174

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

DODGEVILLE - MOUNT HOREB

CTH BB TO CTH JG

USH 18

IOWA & DANE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1204-05-76	WISC 2020526	1

STATE PROJECT NUMBER
1204-05-76

BEGIN EAST SEGMENT
STA 1762+20'WB'

END PROJECT
STA 1935+50'WB'

END WEST SEGMENT
STA 1339+00'WB'

BEGIN PROJECT
STA 1127+75'WB'
X=410,440.74
Y=162,454.07



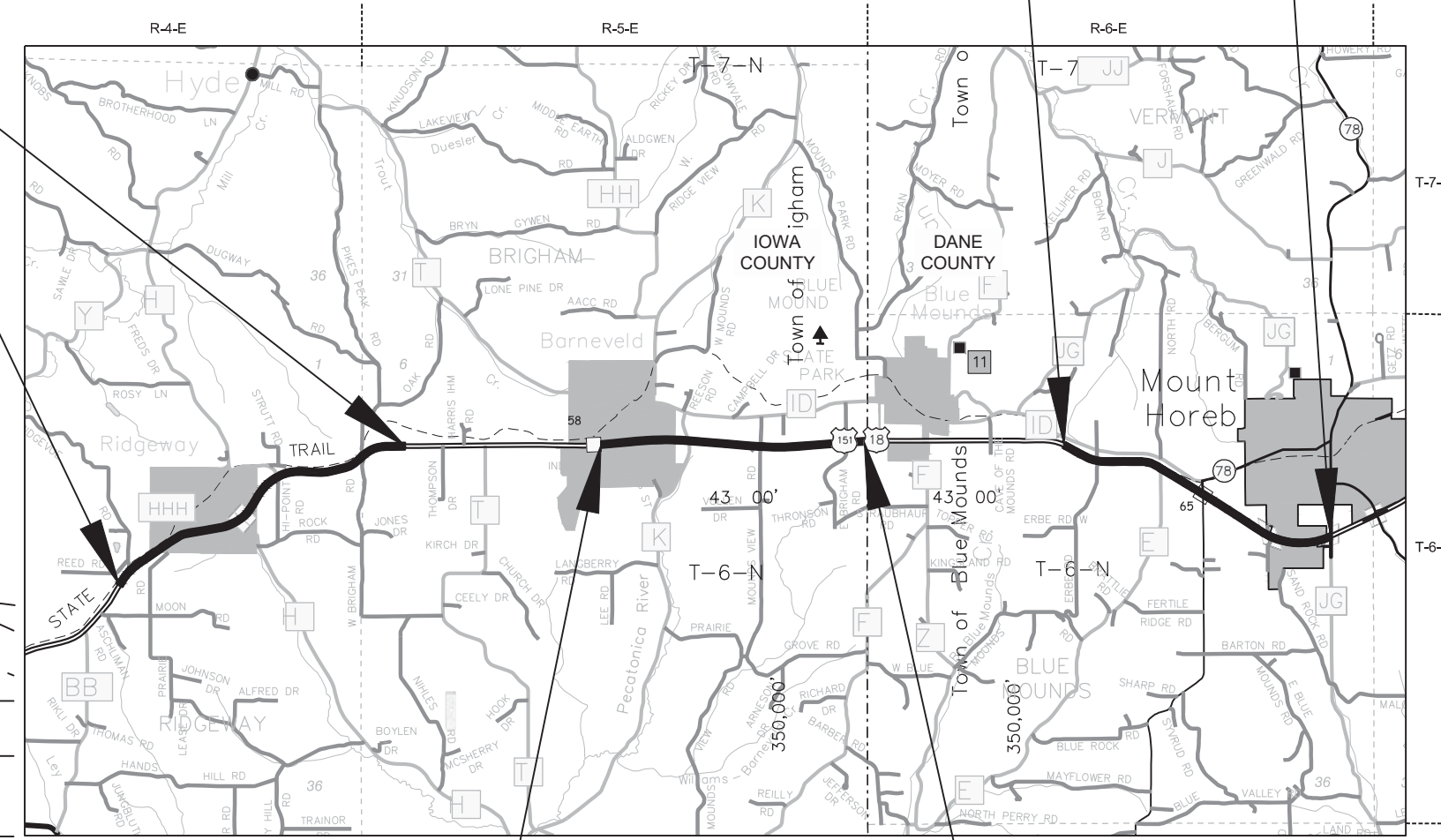
DESIGN DESIGNATION

A.A.D.T.	2020	=	23,500
A.A.D.T.	2040	=	30,860
D.H.V.		=	2,400
D.D.		=	50/50
T.		=	15.5%
DESIGN SPEED		=	70 MPH
ESALS		=	11,000,000

CONVENTIONAL SYMBOLS

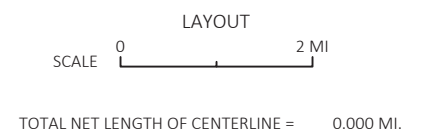
PLAN	PROFILE
CORPORATE LIMITS	GRADE LINE
PROPERTY LINE	ORIGINAL GROUND
LOT LINE	MARSH OR ROCK PROFILE (To be noted as such)
LIMITED HIGHWAY EASEMENT	SPECIAL DITCH
EXISTING RIGHT OF WAY	GRADE ELEVATION
PROPOSED OR NEW R/W LINE	CULVERT (Profile View)
SLOPE INTERCEPT	UTILITIES
REFERENCE LINE	ELECTRIC
EXISTING CULVERT	FIBER OPTIC
PROPOSED CULVERT (Box or Pipe)	GAS
COMBUSTIBLE FLUIDS	SANITARY SEWER
MARSH AREA	STORM SEWER
WOODED OR SHRUB AREA	TELEPHONE
	WATER
	UTILITY PEDESTAL
	POWER POLE
	TELEPHONE POLE

ROCK	36
LABEL	36
300'FB'	
E	
FO	
G	
SAN	
SS	
T	
W	
CAUTION	



BEGIN MIDDLE SEGMENT
STA 1499+50'WB'

END MIDDLE SEGMENT
STA 1616+50'WB'



HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), IOWA & DANE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.



DATE: 7/30/20
Brett Peterson
(Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	ONEIDA ENGINEERING SOLUTIONS
Designer	ONEIDA ENGINEERING SOLUTIONS
Project Manager	MARK VESPERMAN
Regional Examiner	SW REGION
Regional Supervisor	SCOTT SCHOENMANN

APPROVED FOR THE DEPARTMENT
DATE: _____
Scott Schoenmann
Digitally signed by Scott Schoenmann
Date: 2020.07.15 13:39:08 -0500
(Signature)

E

GENERAL NOTES

THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY HIS OPERATION OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE TOPSOILED, FERTILIZED, SEEDED, AND EROSION MATTED AS DIRECTED BY THE ENGINEER.

EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. THE EXACT LOCATION WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE QUANTITY OF THE ITEMS FOR EROSION PROTECTION INCLUDES AN UNDISTRIBUTED AMOUNT FOR PROTECTION, CONTROL, AND ABATEMENT OF WATER POLLUTION RESULTING FROM SOIL EROSION. THE DISTRIBUTION AND LOCATION OF THESE MATERIALS ARE TO BE DETERMINED BY THE ENGINEER.

NUMBER, LOCATION, AND SPACING OF SIGNS AND DEVICES, AS SHOWN IN THE PLANS, SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

PRIOR TO PLACEMENT OF CABLE BARRIER THE SHOULDERS SHALL BE IN PLACE, SHAPED, AND COMPACTED.

CONTRACTOR SHALL PROVIDE THE DANE COUNTY AND IOWA COUNTY PUBLIC WORKS DIRECTOR THE VENDOR CONTACT INFORMATION AND A LIST OF ALL CABLE BARRIER TYPE 1 AND CABLE BARRIER END TERMINAL TYPE 1 PRODUCTS AND COMPONENTS USED ON THE PROJECT.

ORDER OF SECTION 2 SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAILS
EROSION CONTROL PLAN
TRAFFIC CONTROL
SOIL BORINGS

DNR LIAISON

ERIC HEGGELUND
ENVIRONMENTAL ANALYSIS & REVIEW SPECIALIST
WISCONSIN DEPT. OF NATURAL RESOURCES
SOUTH CENTRAL REGION
3911 FISH HATCHERY ROAD
FITCHBURG, WI 53711
(608) 275-3301
ERIC.HEGGELUND@WISCONSIN.GOV

DESIGN CONTACTS

MARK VESPERMAN
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BRETT PETERSON
PROJECT DESIGNER
ONEIDA ENGINEERING SOLUTIONS
5100 EASTPARK BLVD. SUITE 300
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(608) 241-6710
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UTILITY CONTACTS

ATC - ELECTRICITY TRANSMISSION
DOUG VOSBERG
2489 RINDEN ROAD
COTTAGE GROVE, WI 53527
(608) 877-7650
DVOSBERG@ATCLLC.COM

FRONTIER COMMUNICATIONS - COMM
RUSS RYAN
118 DIVISION STREET
PLYMOUTH, WI 53073
(920) 583-3275
RUSSEL.W.RYAN@FTR.COM

ASTREA (A/K/A PACKERLAND BROADBAND) - COMM
RUSSELL KENNY
105 KENT STREET
IRON MOUNTAIN, MI 49801
(906) 282-6434
RUSSELL.KENNY@ASTREACONNECT.COM

RIDGEWAY VILLAGE - WATER
JEFF BRINDLEY - DPW
P.O. BOX 128
113 DOUGHERTY COURT
RIDGEWAY, WI 53582-0028
(608) 924-1520
RIDGEWAY.PWD@MHTC.NET

ALLIANT ENERGY - ELECTRICITY
KURT ROSENBROOK
490 SHAKERAG STREET
MINERAL POINT, WI 53565
(608) 364-6229
KURTROSENBROOK@ALLIANTENERGY.COM

MOUNT HOREB TELEPHONE COMPANY
KEVIN MAYNE
200 EAST MAIN STREET
MOUNT HOREB, WI 53572
(608) 437-5551
KEVIN.MAYNE@MHTCINC.COM

UNIVERSITY OF WISCONSIN - COMM
DAN PARENTEAU
1210 WEST DAYTON STREET
MADISON, WI 53706
(608) 358-9776
DAN.PARENTEAU@WISC.EDU

VILLAGE OF BARNEVELD - SEWER
MIKE WEIER
403 EAST COUNTY HWY ID
BARNEVELD, WI 53507
(608) 924-6861
BARNEVELD@MHTC.NET

CHARTER COMMUNICATIONS - COMM
STEVE HEGGE
2701 DANIELS STREET
MADISON, WI 53718
(608) 576-2613
STEVE.HEGGE@CHARTER.COM

MG&E COMPANY - GAS/PETROLEUM
SHANE ENDRES
133 S BLAIR STREET
MADISON, WI 53788
(608) 252-7224
SENDRES@MGE.COM

WISDOT RWIS PROGRAM - COMM
MIKE ADAMS
ROOM 501
P.O. BOX 7986
MADISON, WI 53707-7986
(608) 266-5004
MICHAEL.ADAMS@DOT.WI.GOV

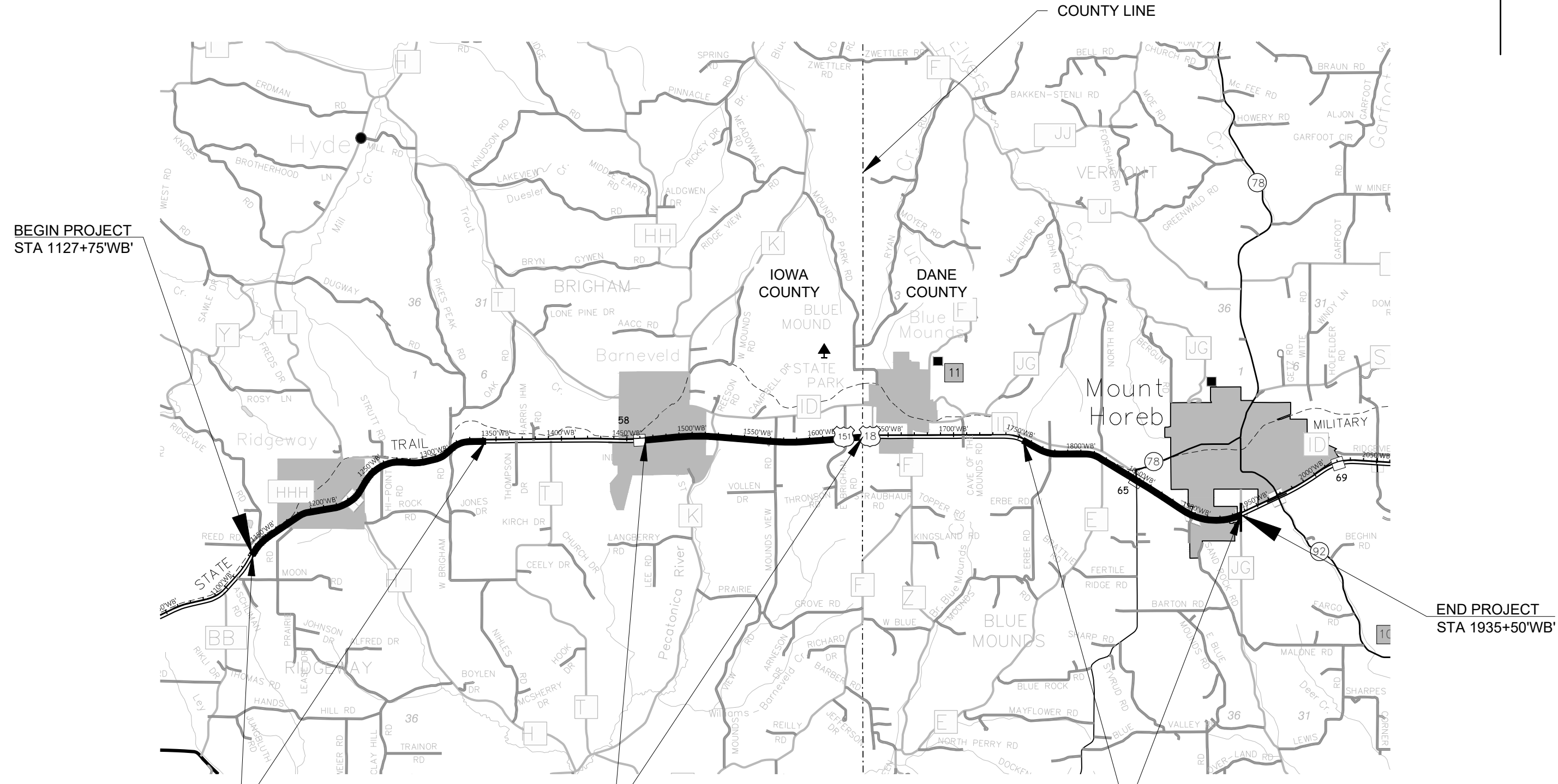
VILLAGE OF BARNEVELD - WATER
MIKE WEIER
403 EAST COUNTY HWY ID
BARNEVELD, WI 53507
(608) 924-6861
BARNEVELD@MHTC.NET



Dial 811 or (800)242-8511
www.DiggersHotline.com

STANDARD ABBREVIATIONS

AGG	AGGREGATE	P.C.	POINT OF CURVATURE
ASPH.	ASPHALTIC	P.I.	POINT OF INTERSECTION
BM	BENCH MARK	P.T.	POINT OF TANGENCY
C/L	CENTER LINE	R	RADIUS OF CURVE
CMCP	CORRUGATED METAL CULVERT PIPE	R/L	REFERENCE LINE
CMP	CORRUGATED METAL PIPE	REQ'D	REQUIRED
CO.	COUNTY	RT	RIGHT
CTH	COUNTRY TRUCK HIGHWAY	R/W	RIGHT OF WAY
CONC	CONCRETE	SHLD.	SHOULDER(S)
CPRC	CULVERT PIPE REINFORCED CONCRETE	STA.	STATION
CY	CUBIC-YARD	SY	SQUARE YARD
C&G	CURB AND GUTTER	TYP	TYPICAL
DIA.	DIAMETER	V.C.	VERTICAL CURVE
EB	EASTBOUND	V.C.L.	VERTICAL CURVE LENGTH
EL	ELEVATION	V.P.C.	VERTICAL POINT OF CURVATURE
EXIST	EXISTING	V.P.I.	VERTICAL POINT OF INTERSECTION
F.E.	FIELD ENTRANCE	V.P.T.	VERTICAL POINT OF TANGENCY
HMA	HOT MIX ASPHALT	WB	WESTBOUND
INV	INVERT		
LT	LEFT		
M/L	MATCHLINE		
NB	NORTHBOUND		
PAV'T	PAVEMENT		



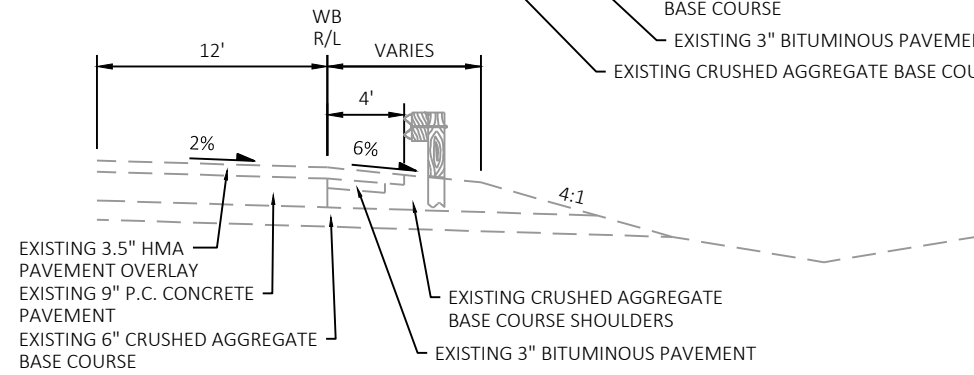
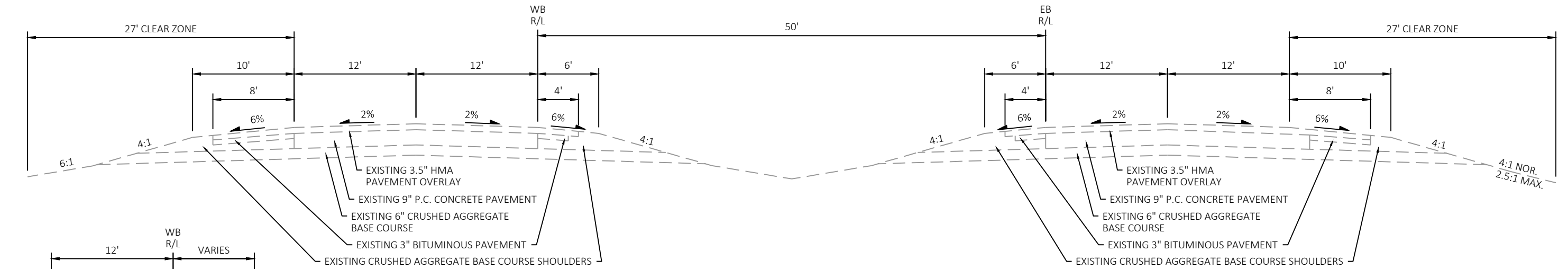
BEGIN PROJECT
STA 1127+75'WB'

END PROJECT
STA 1935+50'WB'

CABLE BARRIER INSTALLATION
AND MEDIAN GRADING FROM
STA. 1127+75'WB' TO STA.
1339+00'WB'.

CABLE BARRIER INSTALLATION
AND MEDIAN GRADING FROM
STA. 1499+50'WB' TO STA.
1616+50'WB'.

CABLE BARRIER INSTALLATION
AND MEDIAN GRADING FROM
STA. 1762+20'WB' TO STA.
1935+50'WB'

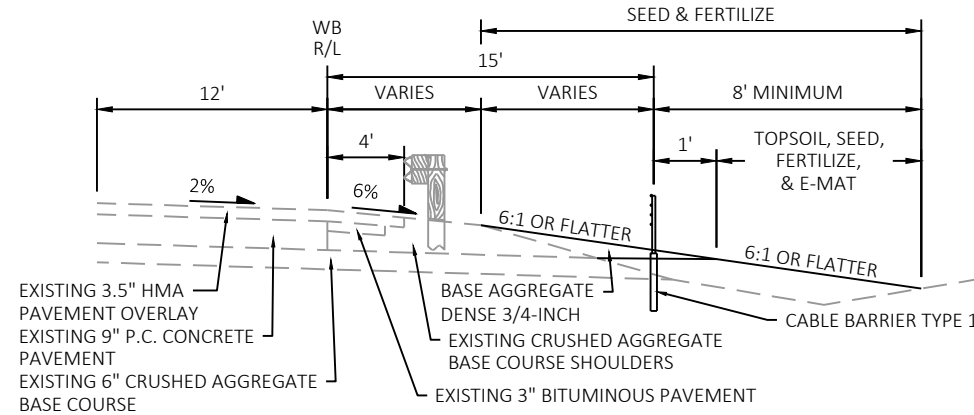
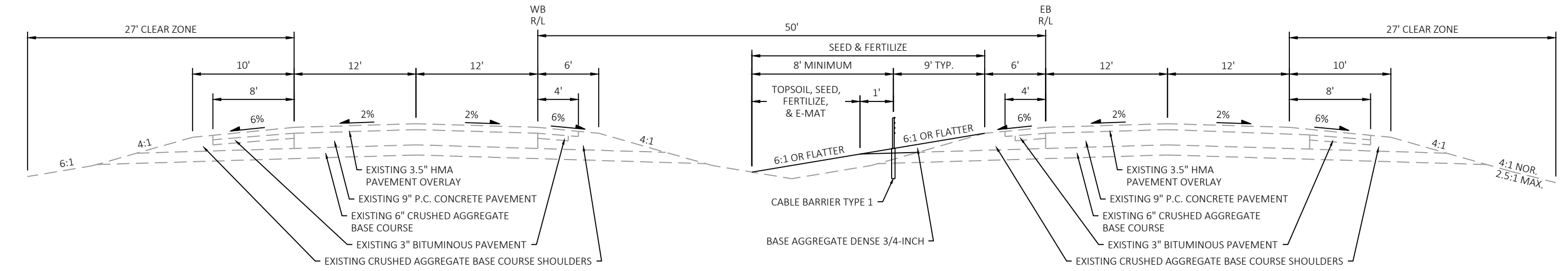


TYPICAL EXISTING SECTION
US 18 (WB GUARDRAIL LOCATIONS)

TYPICAL EXISTING SECTION

US 18

STA. 1127+75'WB' TO STA. 1180+25'WB'	STA. 1315+00'EB' TO STA. 1323+00'EB'
STA. 1181+75'WB' TO STA. 1219+25'WB'	STA. 1323+50'WB' TO STA. 1339+00'WB'
STA. 1225+10'WB' TO STA. 1232+85'WB'	STA. 1499+50'WB' TO STA. 1518+00'WB'
STA. 1233+50'WB' TO STA. 1257+00'WB'	STA. 1519+50'EB' TO STA. 1525+00'EB'
STA. 1258+75'EB' TO STA. 1283+75'EB'	STA. 1526+00'WB' TO STA. 1558+75'WB'
STA. 1284+75'EB' TO STA. 1288+25'EB'	STA. 1559+50'WB' TO STA. 1563+00'WB'
STA. 1289+00'EB' TO STA. 1292+75'EB'	STA. 1564+50'EB' TO STA. 1581+00'EB'
STA. 1293+50'WB' TO STA. 1313+00'WB'	STA. 1581+50'WB' TO STA. 1616+50'WB'

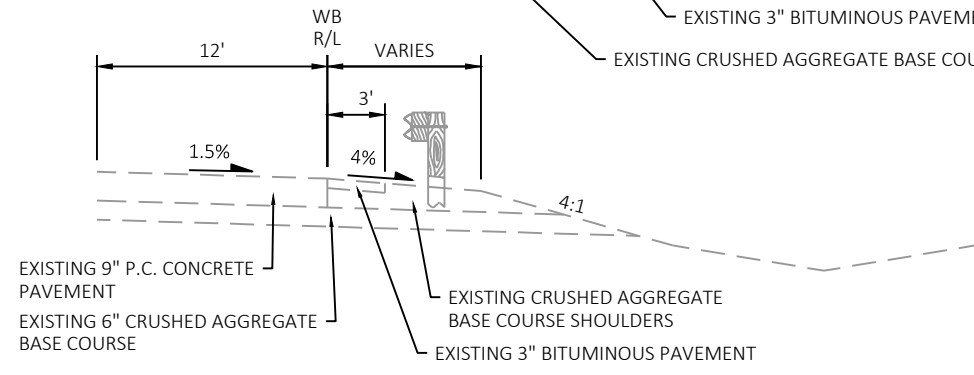
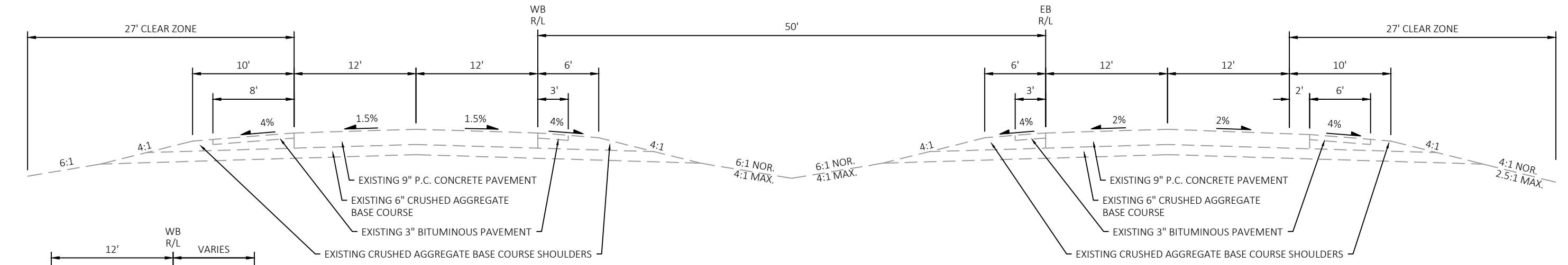


TYPICAL FINISHED SECTION
US 18 (WB GUARDRAIL LOCATIONS)

TYPICAL FINISHED SECTION

US 18
(MIRRORED FOR CABLE GUARD ON WB SIDE OF MEDIAN DITCH)

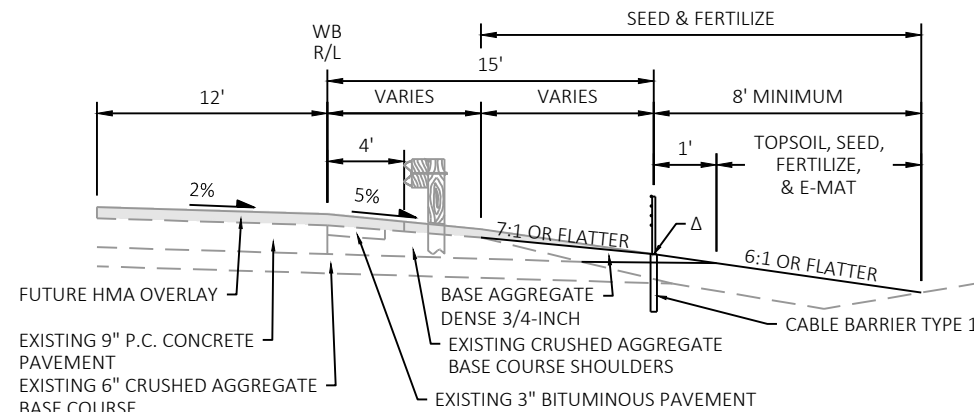
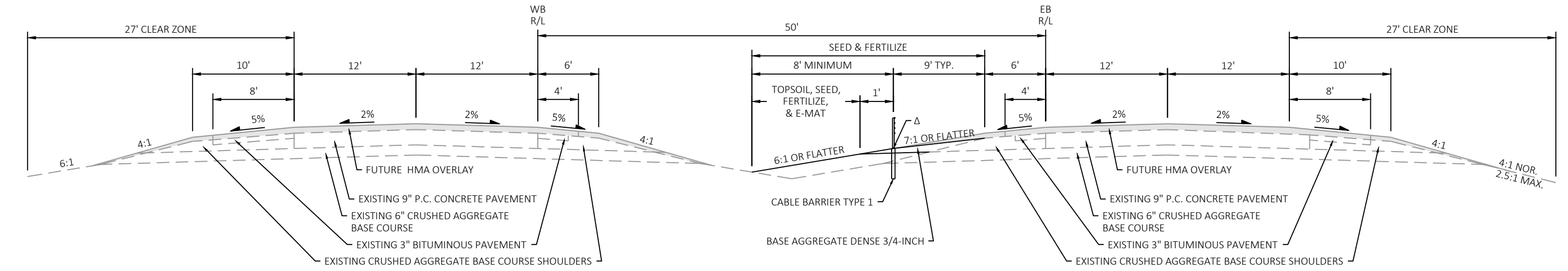
STA. 1127+75'WB' TO STA. 1180+25'WB'	STA. 1315+00'EB' TO STA. 1323+00'EB'
STA. 1181+75'WB' TO STA. 1219+25'WB'	STA. 1323+50'WB' TO STA. 1339+00'WB'
STA. 1225+10'WB' TO STA. 1232+85'WB'	STA. 1499+50'WB' TO STA. 1518+00'WB'
STA. 1233+50'WB' TO STA. 1257+00'WB'	STA. 1519+50'EB' TO STA. 1525+00'EB'
STA. 1258+75'EB' TO STA. 1283+75'EB'	STA. 1526+00'WB' TO STA. 1558+75'WB'
STA. 1284+75'EB' TO STA. 1288+25'EB'	STA. 1559+50'WB' TO STA. 1563+00'WB'
STA. 1289+00'EB' TO STA. 1292+75'EB'	STA. 1564+50'EB' TO STA. 1581+00'EB'
STA. 1293+50'WB' TO STA. 1313+00'WB'	STA. 1581+50'WB' TO STA. 1616+50'WB'



TYPICAL EXISTING SECTION
US 18 (WB GUARDRAIL LOCATIONS)

TYPICAL EXISTING SECTION

US 18
 STA. 1762+20'WB' TO STA. 1775+75'WB'
 STA. 1777+50'EB' TO STA. 1796+25'EB'
 STA. 1797+25'EB' TO STA. 1810+75'EB'
 STA. 1811+50'EB' TO STA. 1846+75'EB'
 STA. 1848+50'EB' TO STA. 1880+10'EB'
 STA. 1881+10'WB' TO STA. 1894+75'WB'
 STA. 1898+00'WB' TO STA. 1912+00'WB'
 STA. 1912+75'WB' TO STA. 1935+50'WB'



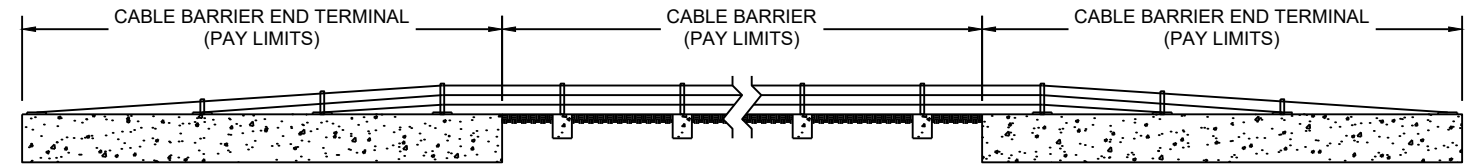
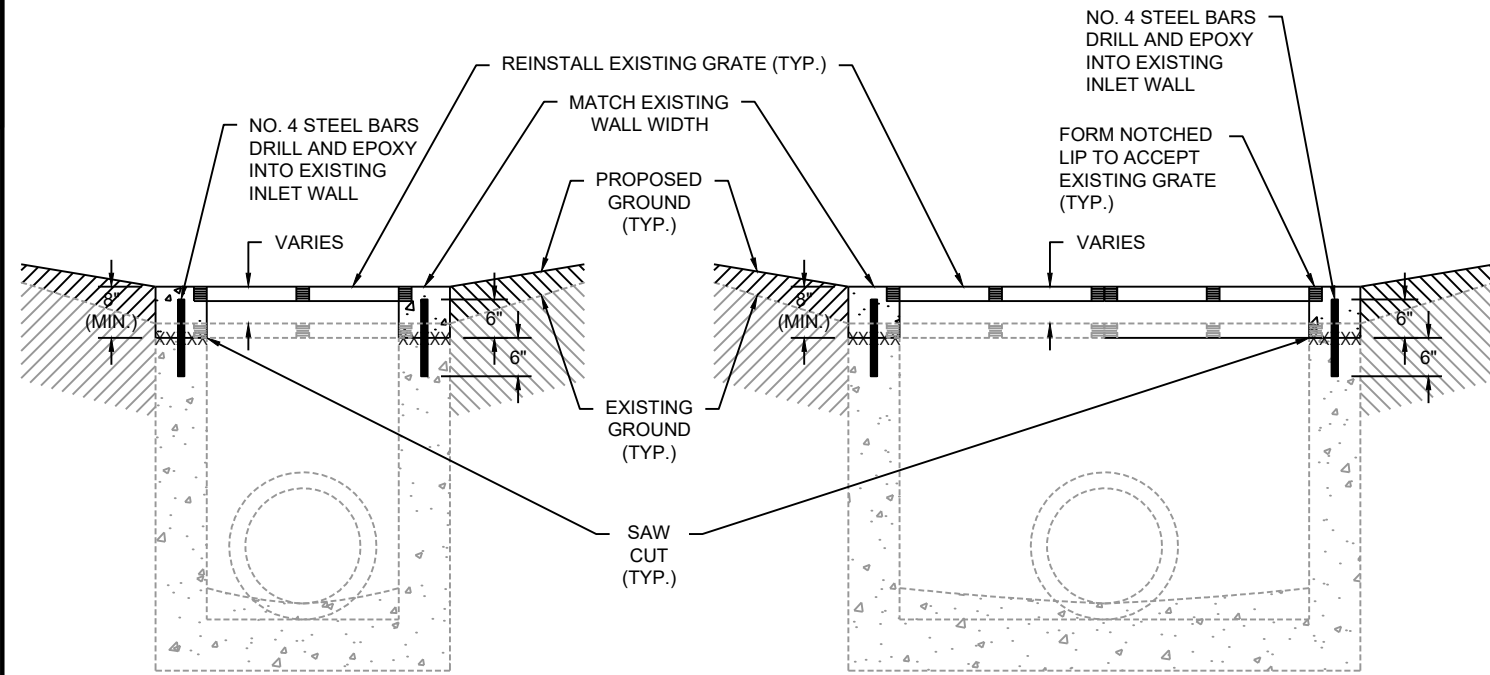
TYPICAL FINISHED SECTION
US 18 (WB GUARDRAIL LOCATIONS)

TYPICAL FINISHED SECTION

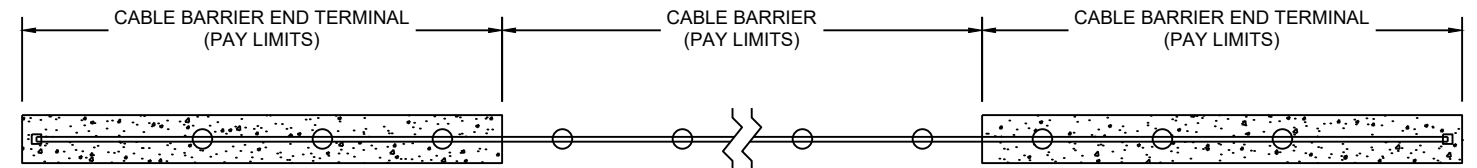
US 18
 (MIRRORED FOR CABLE GUARD ON WB SIDE OF MEDIAN DITCH)
 STA. 1762+20'WB' TO STA. 1775+75'WB'
 STA. 1777+50'EB' TO STA. 1796+25'EB'
 STA. 1797+25'EB' TO STA. 1810+75'EB'
 STA. 1811+50'EB' TO STA. 1846+75'EB'
 STA. 1848+50'EB' TO STA. 1880+10'EB'
 STA. 1881+10'WB' TO STA. 1894+75'WB'
 STA. 1898+00'WB' TO STA. 1912+00'WB'
 STA. 1912+75'WB' TO STA. 1935+50'WB'

LEGEND

- HMA OVERLAY AND ADDITIONAL SHOULDERING COMPLETED UNDER FUTURE PROJECT.
- CABLE BARRIER GROUND ELEVATION BASED ON MAINTAINING 6:1 OR FLATTER SLOPE FOR FUTURE HMA OVERLAY PROJECT



PROFILE VIEW

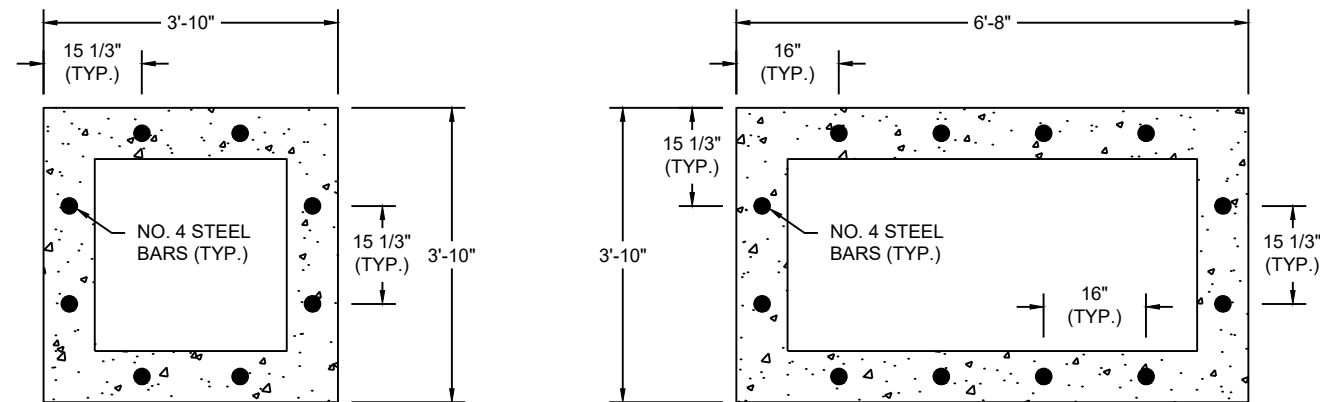


PLAN VIEW

NOTES:

1. END TERMINAL PAY LIMITS ARE SEPARATE FROM THE OVERALL CABLE BARRIER PAY LIMITS.
2. LENGTH OF CABLE BARRIER END TERMINAL VARIES. ACTUAL LENGTH OF CABLE BARRIER END TERMINAL TO BE DETERMINED BY MANUFACTURER AND ENGINEER.
3. EACH CABLE BARRIER END TERMINAL WAS ESTIMATED TO BE 50' IN LENGTH FOR PURPOSES OF CALCULATING CABLE BARRIER QUANTITIES.

CABLE BARRIER PAY LIMITS DETAIL



INLETS MEDIAN 1 GRATE (PLAN VIEW)

INLETS MEDIAN 2 GRATE (PLAN VIEW)

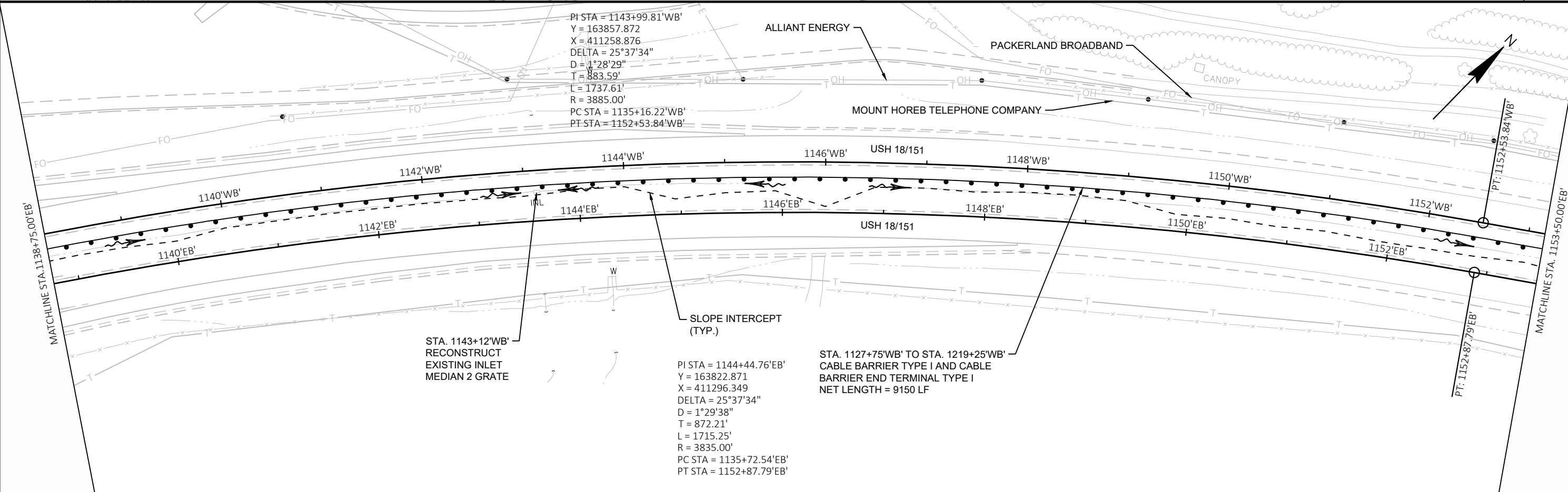
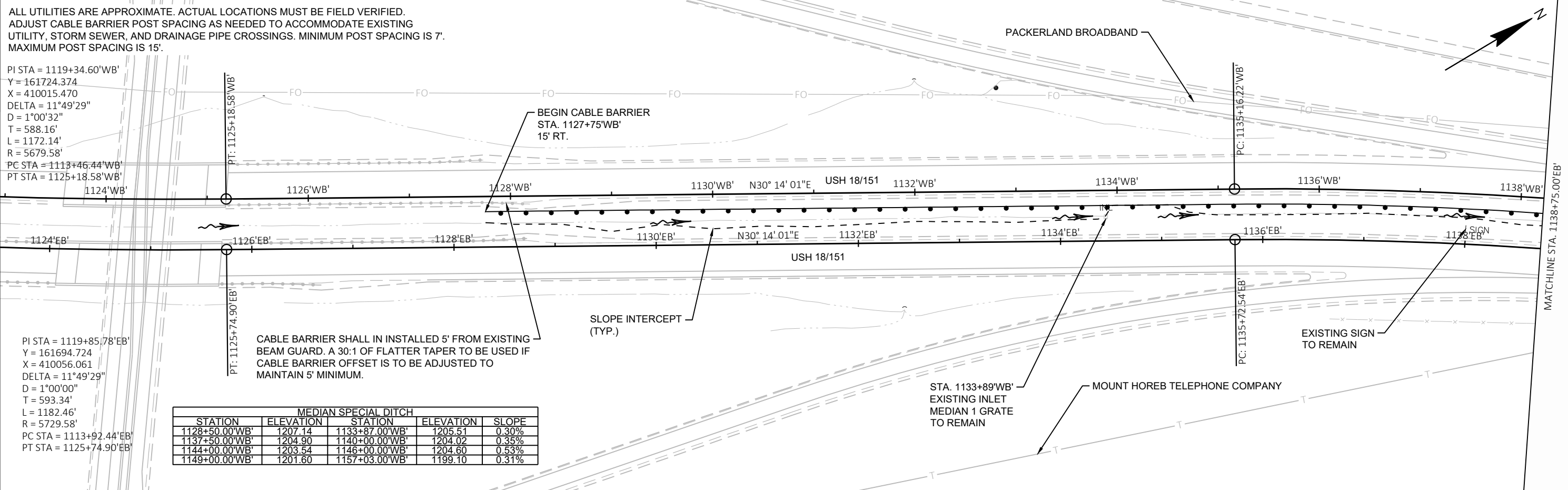
RECONSTRUCT INLET DETAIL

ALL UTILITIES ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.
 ADJUST CABLE BARRIER POST SPACING AS NEEDED TO ACCOMMODATE EXISTING
 UTILITY, STORM SEWER, AND DRAINAGE PIPE CROSSINGS. MINIMUM POST SPACING IS 7'.
 MAXIMUM POST SPACING IS 15'.

PI STA = 1119+34.60'WB'
 Y = 161724.374
 X = 410015.470
 DELTA = 11°49'29"
 D = 1°00'32"
 T = 588.16'
 L = 1172.14'
 R = 5679.58'
 PC STA = 1113+46.44'WB'
 PT STA = 1125+18.58'WB'

PI STA = 1119+85.78'EB'
 Y = 161694.724
 X = 410056.061
 DELTA = 11°49'29"
 D = 1°00'00"
 T = 593.34'
 L = 1182.46'
 R = 5729.58'
 PC STA = 1113+92.44'EB'
 PT STA = 1125+74.90'EB'

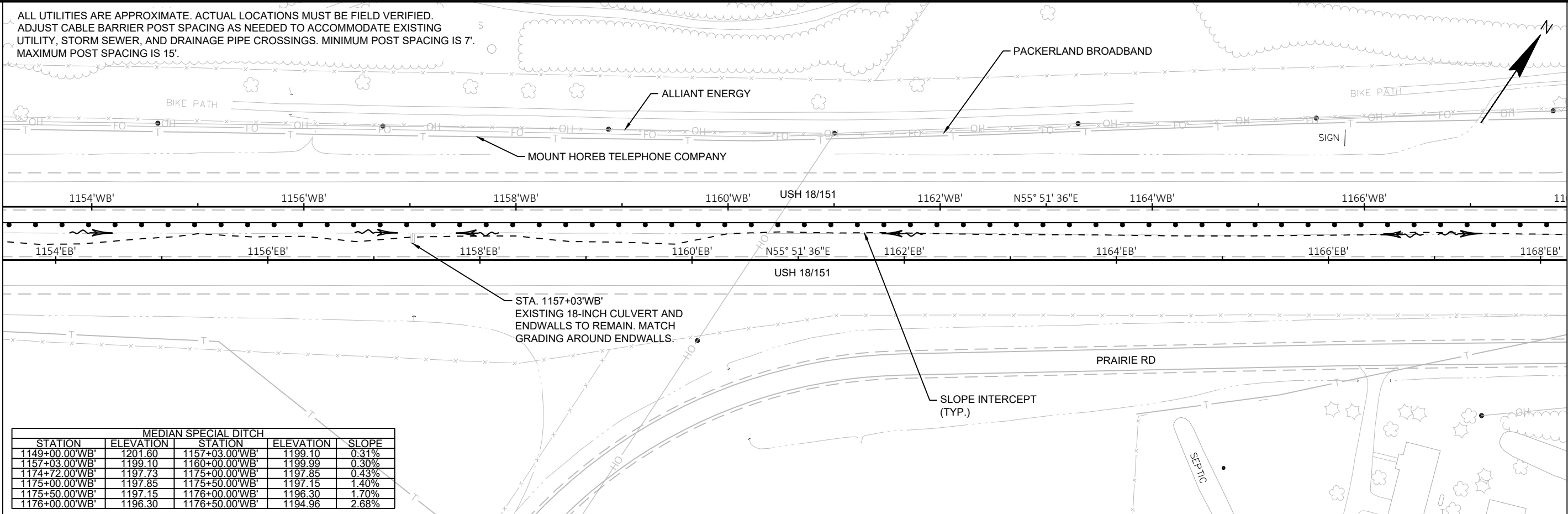
MEDIAN SPECIAL DITCH				
STATION	ELEVATION	STATION	ELEVATION	SLOPE
1128+50.00'WB'	1207.14	1133+87.00'WB'	1205.51	0.30%
1137+50.00'WB'	1204.90	1140+00.00'WB'	1204.02	0.35%
1144+00.00'WB'	1203.54	1146+00.00'WB'	1204.60	0.53%
1149+00.00'WB'	1201.60	1157+03.00'WB'	1199.10	0.31%



ALL UTILITIES ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.
 ADJUST CABLE BARRIER POST SPACING AS NEEDED TO ACCOMMODATE EXISTING
 UTILITY, STORM SEWER, AND DRAINAGE PIPE CROSSINGS. MINIMUM POST SPACING IS 7'.
 MAXIMUM POST SPACING IS 15'.

MATCHLINE STA. 1153+50.00'EB'

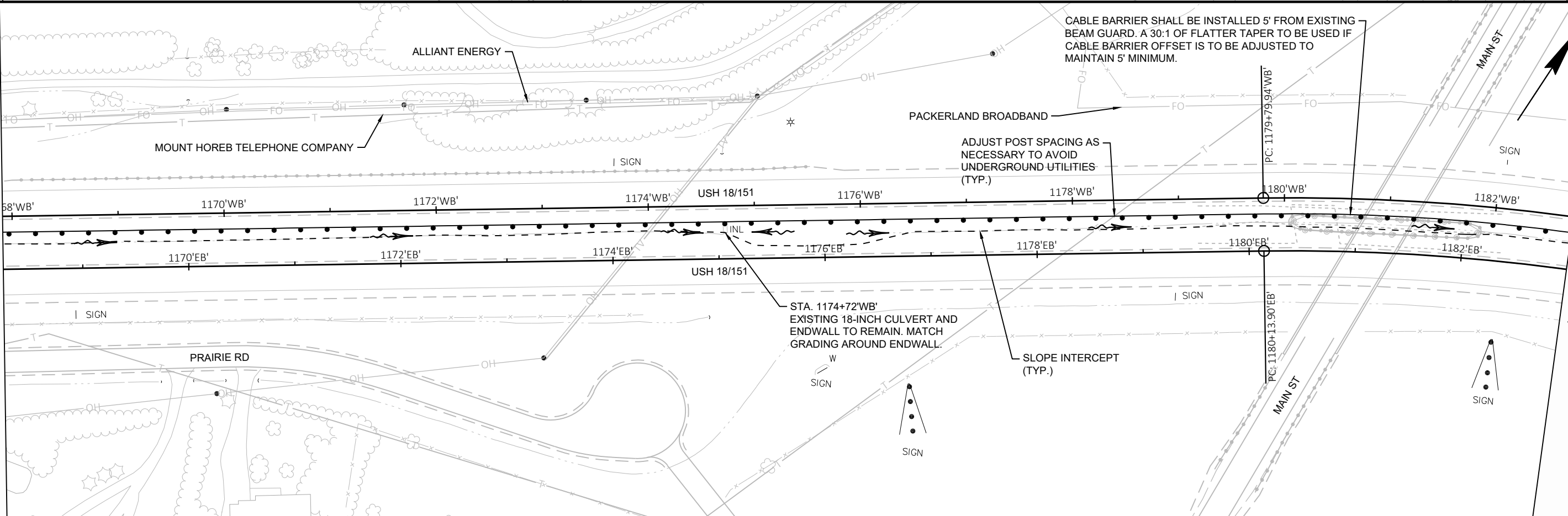
MATCHLINE STA. 1168+25.00'EB'



MEDIAN SPECIAL DITCH				
STATION	ELEVATION	STATION	ELEVATION	SLOPE
1149+00.00'WB'	1201.60	1157+03.00'WB'	1199.10	0.31%
1157+03.00'WB'	1199.10	1160+00.00'WB'	1199.99	0.30%
1174+72.00'WB'	1197.73	1175+00.00'WB'	1197.85	0.43%
1175+00.00'WB'	1197.85	1175+50.00'WB'	1197.15	1.40%
1175+50.00'WB'	1197.15	1176+00.00'WB'	1196.30	1.70%
1176+00.00'WB'	1196.30	1176+50.00'WB'	1194.96	2.68%

MATCHLINE STA. 1168+25.00'EB'

MATCHLINE STA. 1183+00.00'EB'



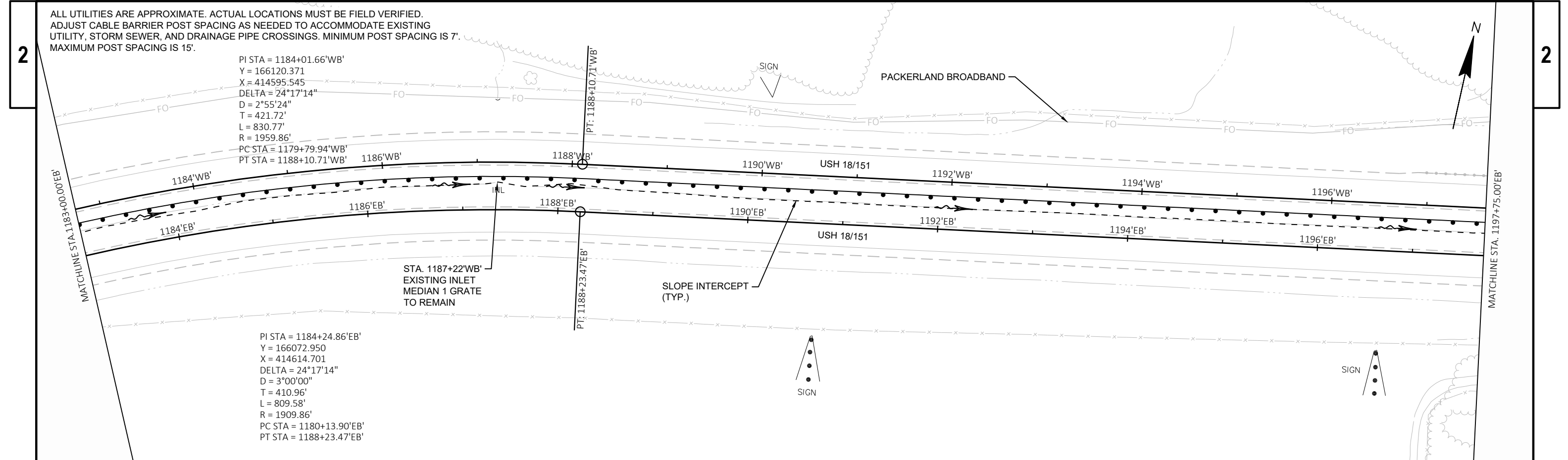
ALL UTILITIES ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.
 ADJUST CABLE BARRIER POST SPACING AS NEEDED TO ACCOMMODATE EXISTING
 UTILITY, STORM SEWER, AND DRAINAGE PIPE CROSSINGS. MINIMUM POST SPACING IS 7'.
 MAXIMUM POST SPACING IS 15'.

PI STA = 1184+01.66'WB'
 Y = 166120.371
 X = 414595.545
 DELTA = 24°17'14"
 D = 2°55'24"
 T = 421.72'
 L = 830.77'
 R = 1959.86'
 PC STA = 1179+79.94'WB'
 PT STA = 1188+10.71'WB'

PI STA = 1184+24.86'EB'
 Y = 166072.950
 X = 414614.701
 DELTA = 24°17'14"
 D = 3°00'00"
 T = 410.96'
 L = 809.58'
 R = 1909.86'
 PC STA = 1180+13.90'EB'
 PT STA = 1188+23.47'EB'

STA. 1187+22'WB'
 EXISTING INLET
 MEDIAN 1 GRATE
 TO REMAIN

SLOPE INTERCEPT
 (TYP.)

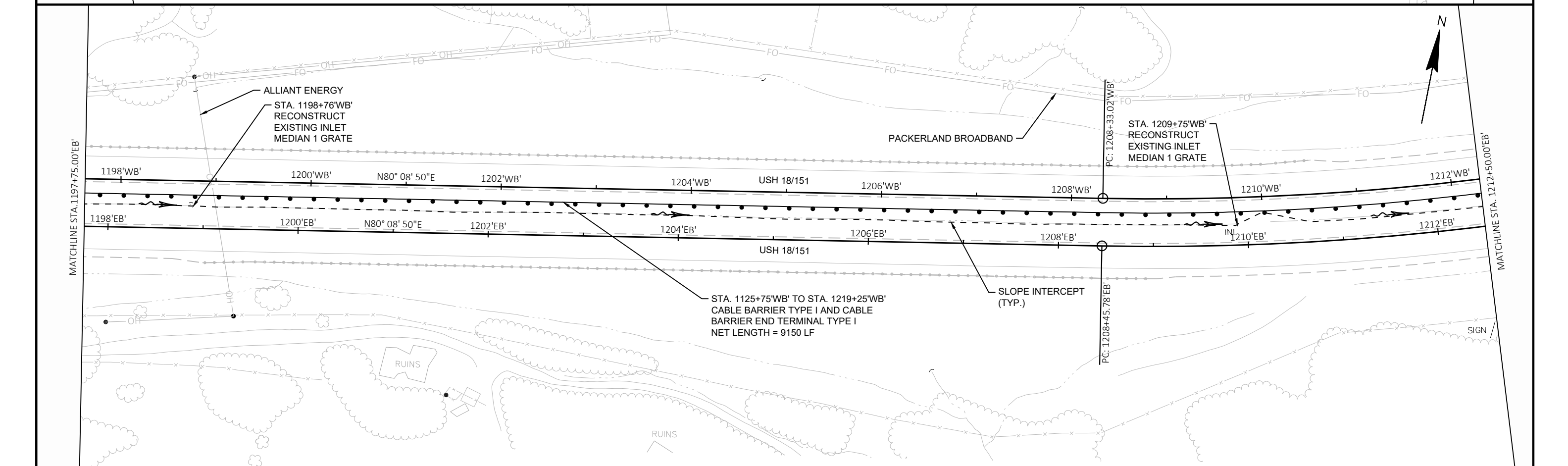


ALLIANT ENERGY
 STA. 1198+76'WB'
 RECONSTRUCT
 EXISTING INLET
 MEDIAN 1 GRATE

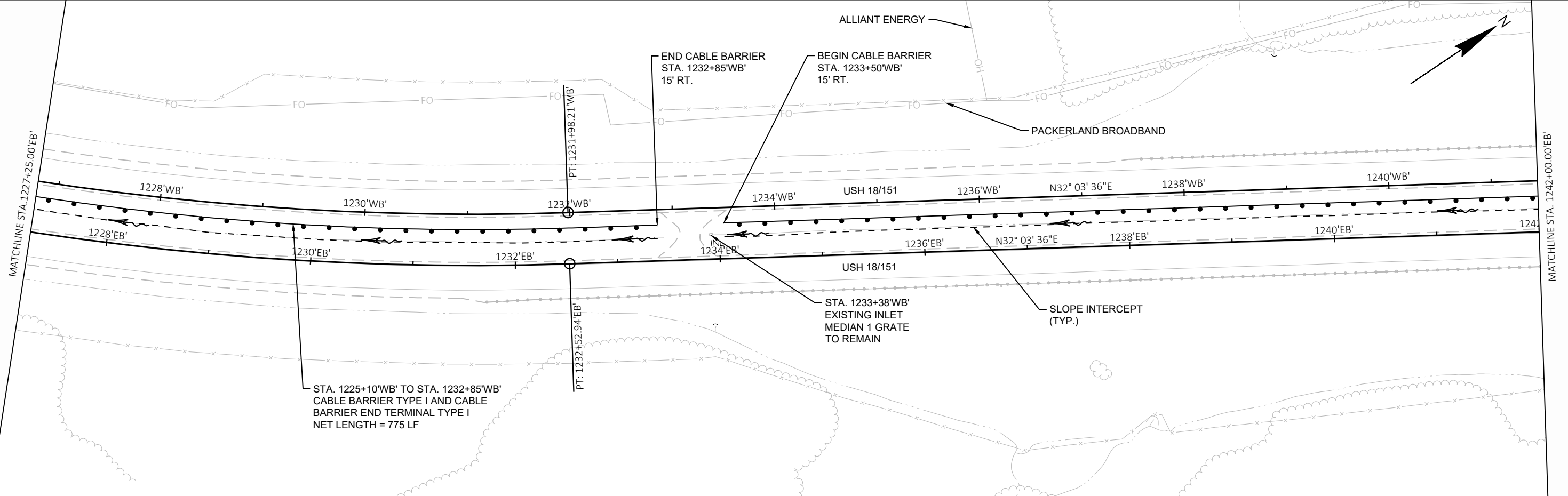
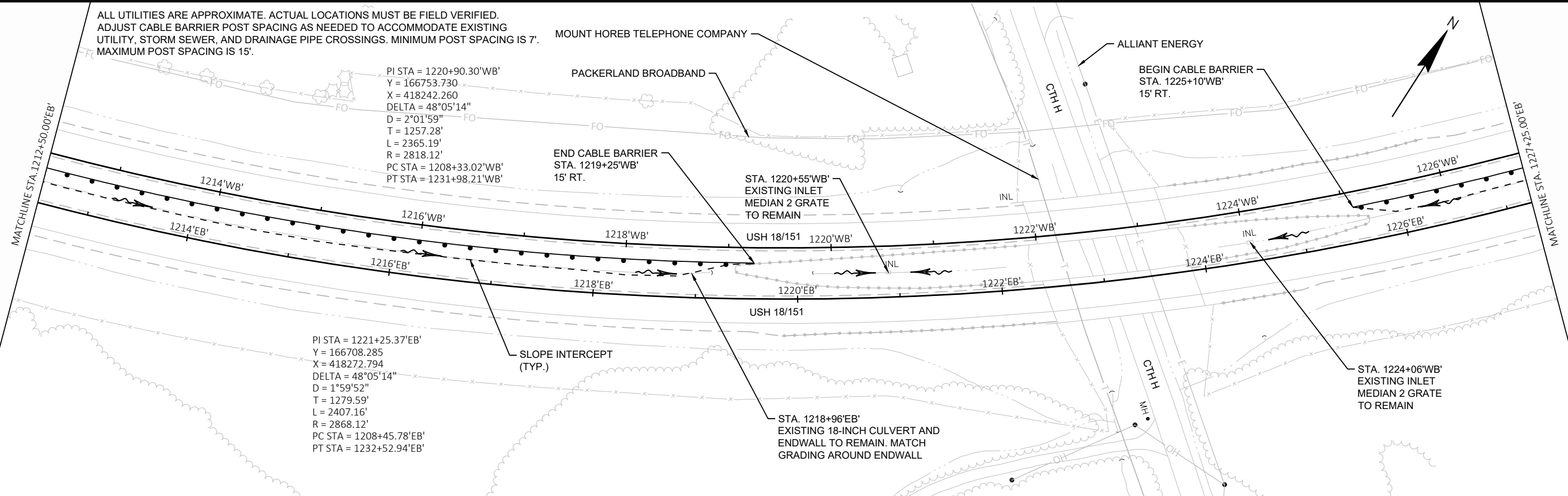
STA. 1209+75'WB'
 RECONSTRUCT
 EXISTING INLET
 MEDIAN 1 GRATE

STA. 1125+75'WB' TO STA. 1219+25'WB'
 CABLE BARRIER TYPE I AND CABLE
 BARRIER END TERMINAL TYPE I
 NET LENGTH = 9150 LF

SLOPE INTERCEPT
 (TYP.)



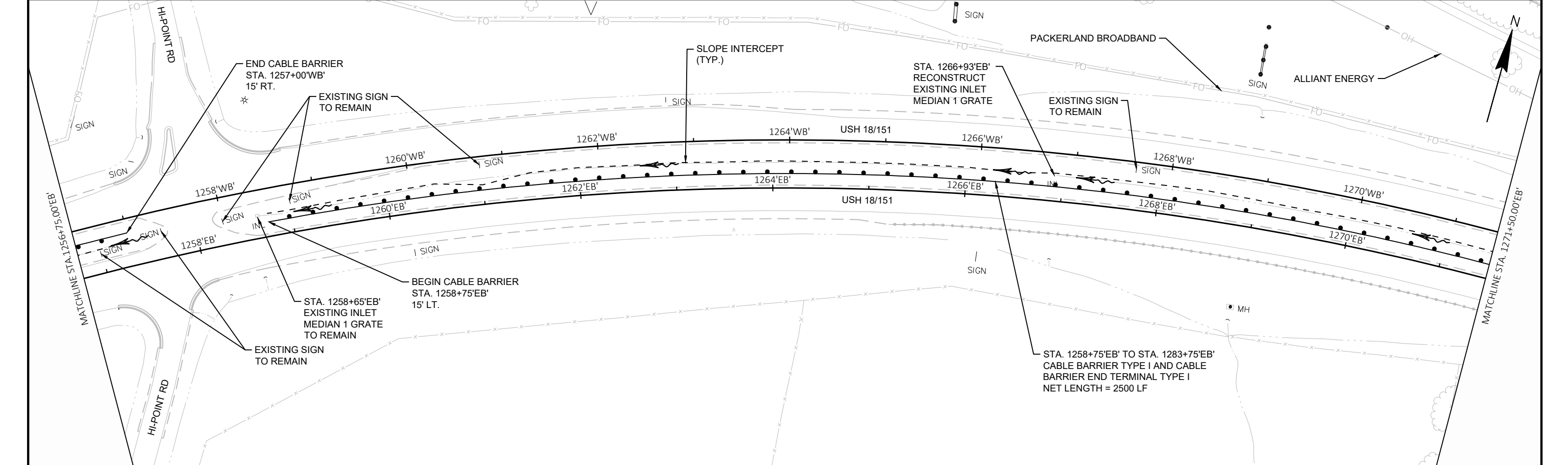
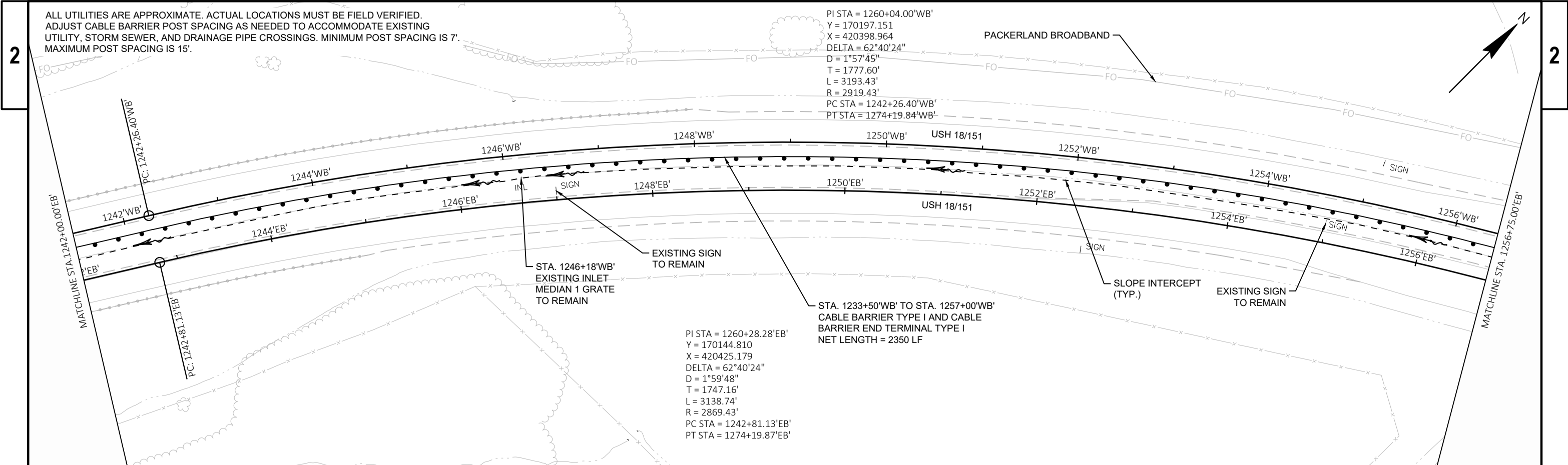
ALL UTILITIES ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.
ADJUST CABLE BARRIER POST SPACING AS NEEDED TO ACCOMMODATE EXISTING
UTILITY, STORM SEWER, AND DRAINAGE PIPE CROSSINGS. MINIMUM POST SPACING IS 7'.
MAXIMUM POST SPACING IS 15'.

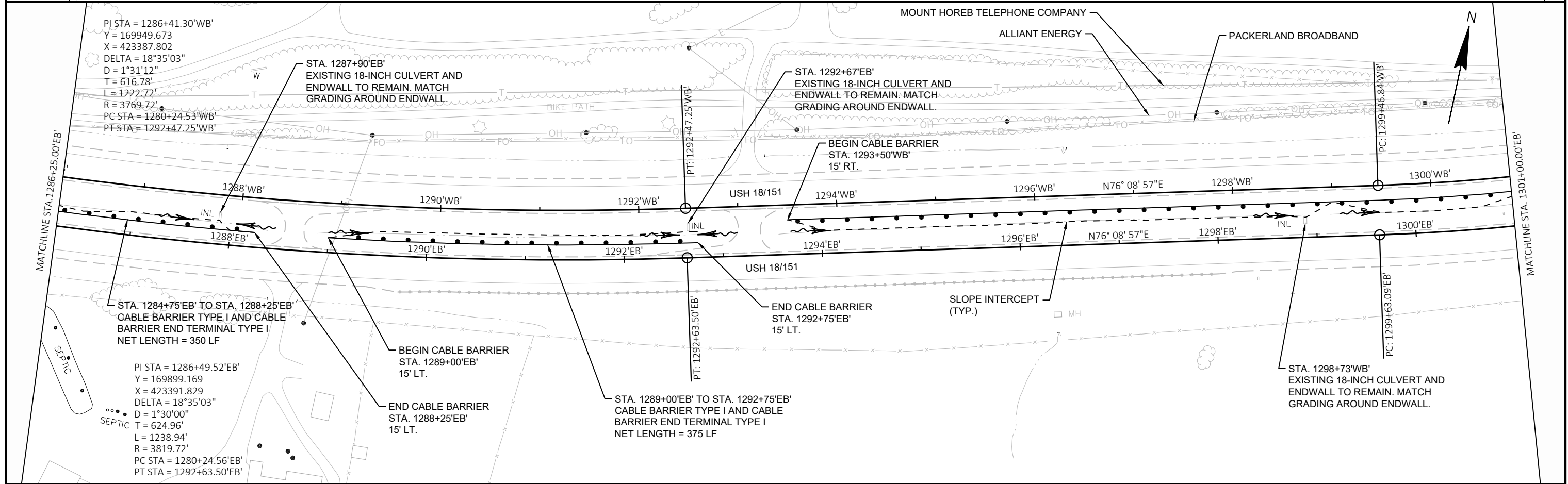
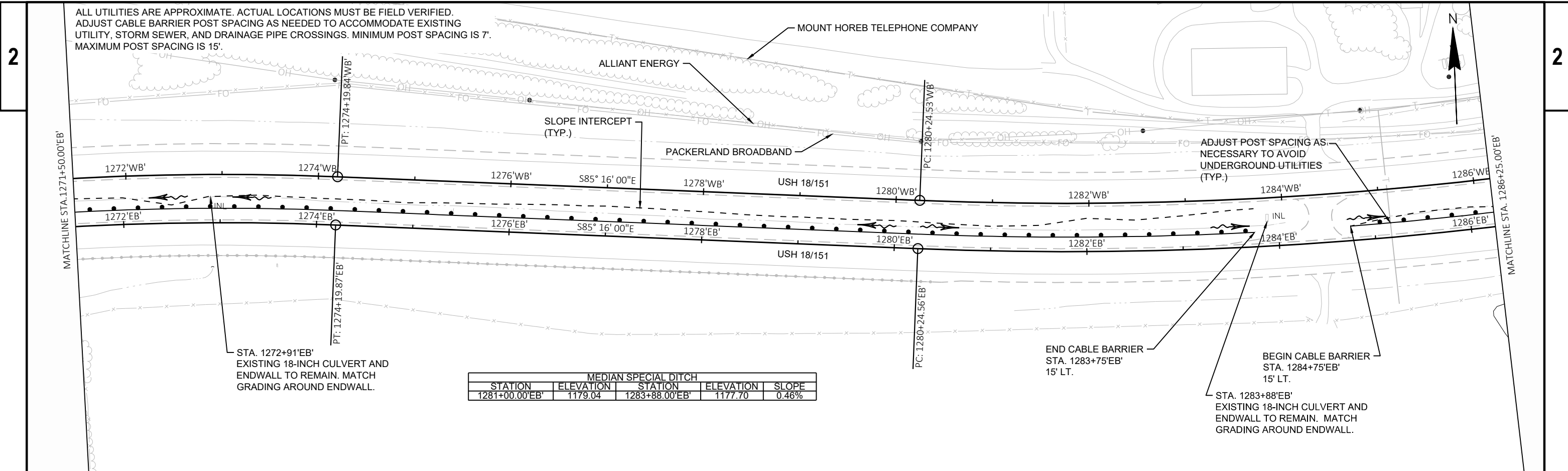


ALL UTILITIES ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.
 ADJUST CABLE BARRIER POST SPACING AS NEEDED TO ACCOMMODATE EXISTING
 UTILITY, STORM SEWER, AND DRAINAGE PIPE CROSSINGS. MINIMUM POST SPACING IS 7'.
 MAXIMUM POST SPACING IS 15'.

PI STA = 1260+04.00'WB'
 Y = 170197.151
 X = 420398.964
 DELTA = 62°40'24"
 D = 1°57'45"
 T = 1777.60'
 L = 3193.43'
 R = 2919.43'
 PC STA = 1242+26.40'WB'
 PT STA = 1274+19.84'WB'

PI STA = 1260+28.28'EB'
 Y = 170144.810
 X = 420425.179
 DELTA = 62°40'24"
 D = 1°59'48"
 T = 1747.16'
 L = 3138.74'
 R = 2869.43'
 PC STA = 1242+81.13'EB'
 PT STA = 1274+19.87'EB'



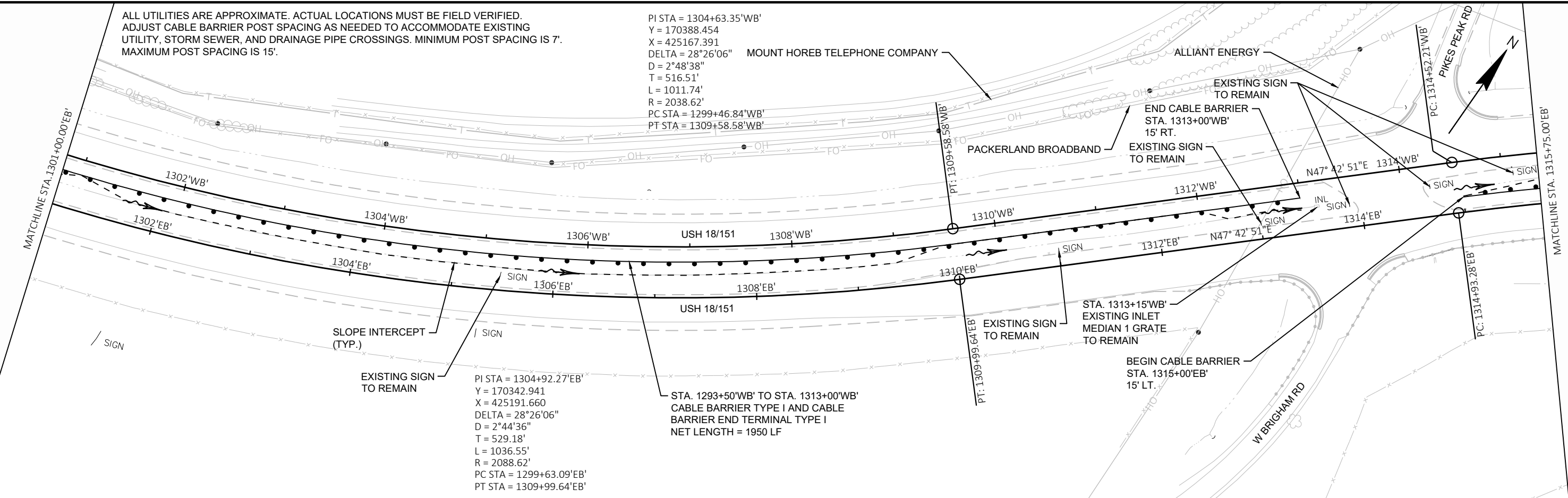


ALL UTILITIES ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.
ADJUST CABLE BARRIER POST SPACING AS NEEDED TO ACCOMMODATE EXISTING
UTILITY, STORM SEWER, AND DRAINAGE PIPE CROSSINGS. MINIMUM POST SPACING IS 7'.
MAXIMUM POST SPACING IS 15'.

PI STA = 1304+63.35'WB'
Y = 170388.454
X = 425167.391
DELTA = 28°26'06"
D = 2°48'38"
T = 516.51'
L = 1011.74'
R = 2038.62'
PC STA = 1299+46.84'WB'
PT STA = 1309+58.58'WB'

STA. 1293+50'WB' TO STA. 1313+00'WB'
CABLE BARRIER TYPE I AND CABLE
BARRIER END TERMINAL TYPE I
NET LENGTH = 1950 LF

PI STA = 1304+92.27'EB'
Y = 170342.941
X = 425191.660
DELTA = 28°26'06"
D = 2°44'36"
T = 529.18'
L = 1036.55'
R = 2088.62'
PC STA = 1299+63.09'EB'
PT STA = 1309+99.64'EB'



PI STA = 1322+66.47'WB'
Y = 171615.970
X = 426517.087
DELTA = 41°38'11"
D = 2°40'32"
T = 814.26'
L = 1556.22'
R = 2141.52'
PC STA = 1314+52.21'WB'
PT STA = 1330+08.43'WB'

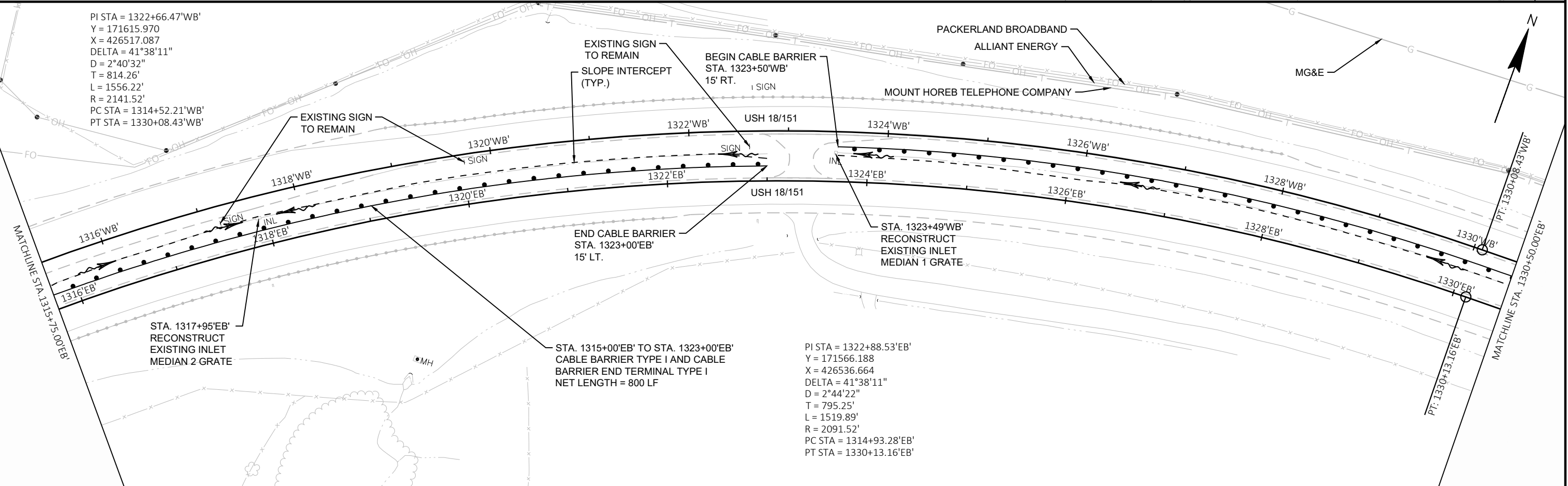
EXISTING SIGN TO REMAIN
SLOPE INTERCEPT (TYP.)

BEGIN CABLE BARRIER
STA. 1323+50'WB'
15' RT.

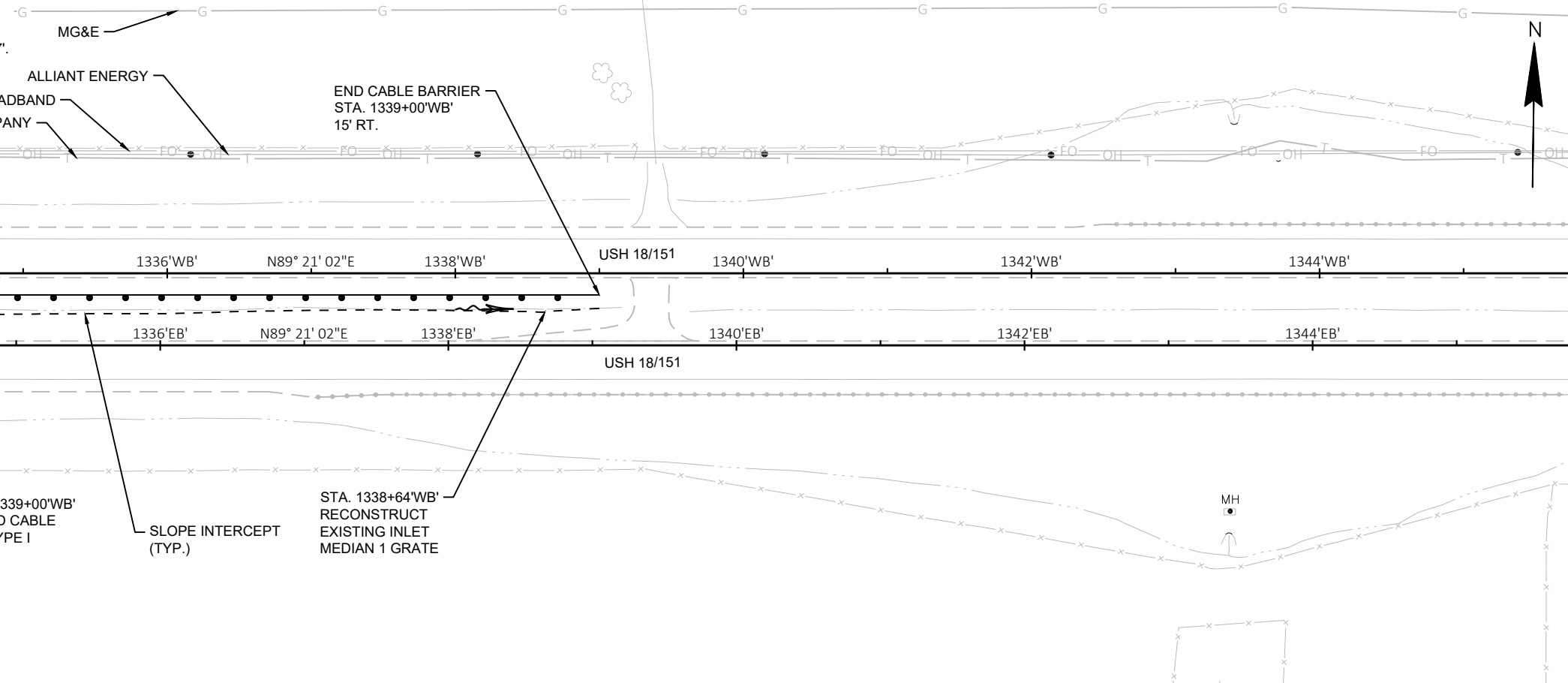
END CABLE BARRIER
STA. 1323+00'EB'
15' LT.

STA. 1315+00'EB' TO STA. 1323+00'EB'
CABLE BARRIER TYPE I AND CABLE
BARRIER END TERMINAL TYPE I
NET LENGTH = 800 LF

PI STA = 1322+88.53'EB'
Y = 171566.188
X = 426536.664
DELTA = 41°38'11"
D = 2°44'22"
T = 795.25'
L = 1519.89'
R = 2091.52'
PC STA = 1314+93.28'EB'
PT STA = 1330+13.16'EB'



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ADJUST CABLE BARRIER POST SPACING AS NEEDED TO ACCOMMODATE EXISTING
UTILITY, STORM SEWER, AND DRAINAGE PIPE CROSSINGS. MINIMUM POST SPACING IS 7'.
MAXIMUM POST SPACING IS 15'.

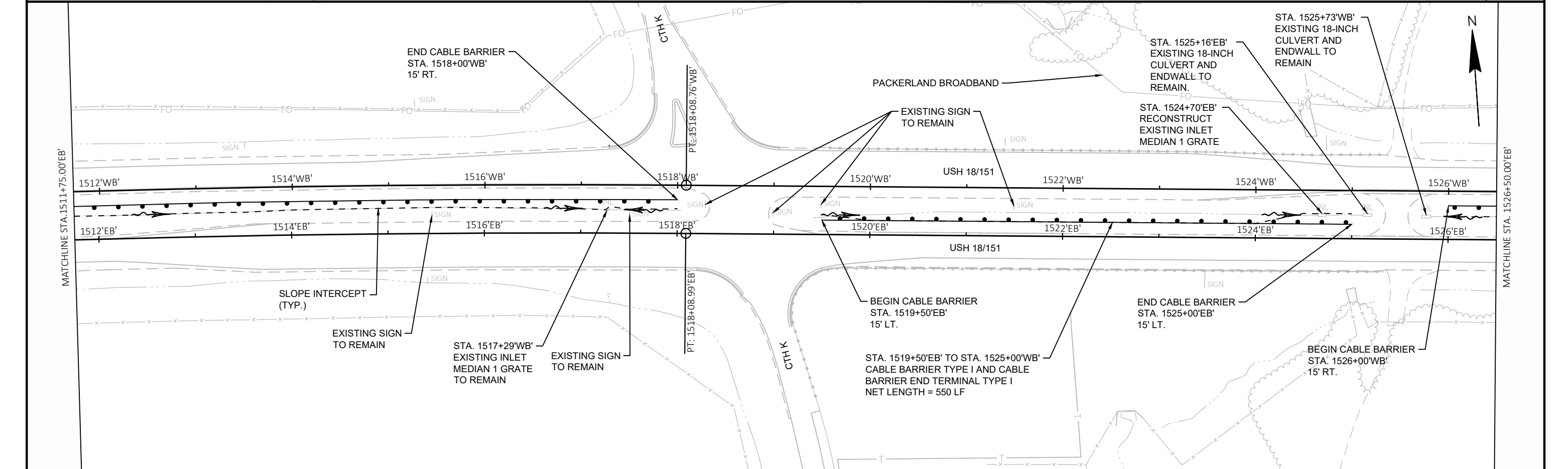
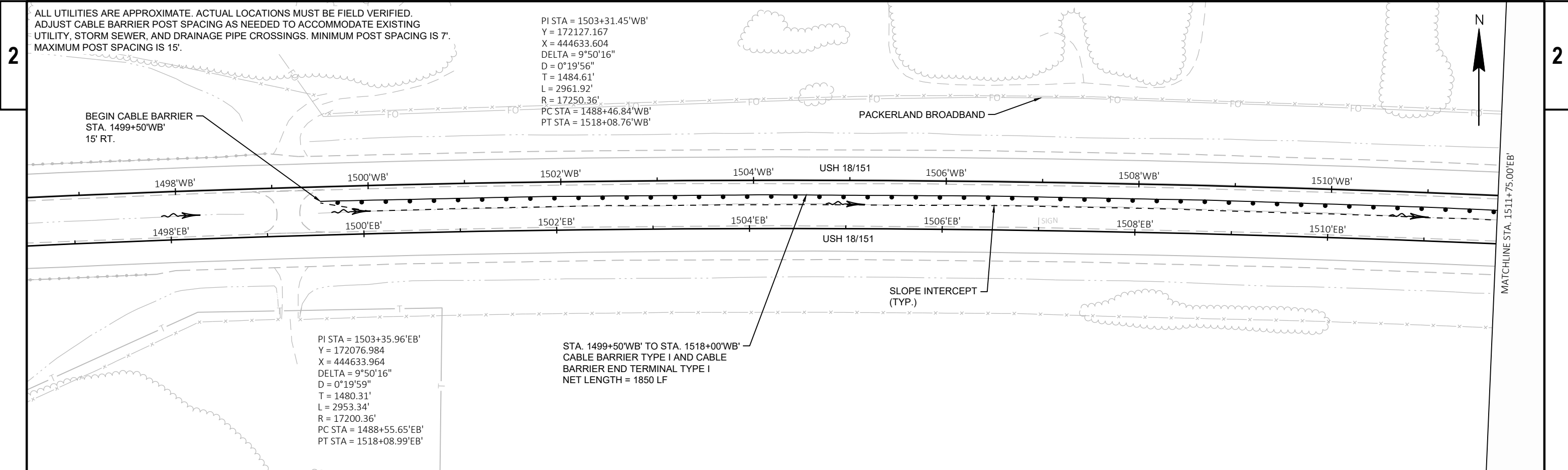


MATCHLINE STA. 1330+50.00' EB'

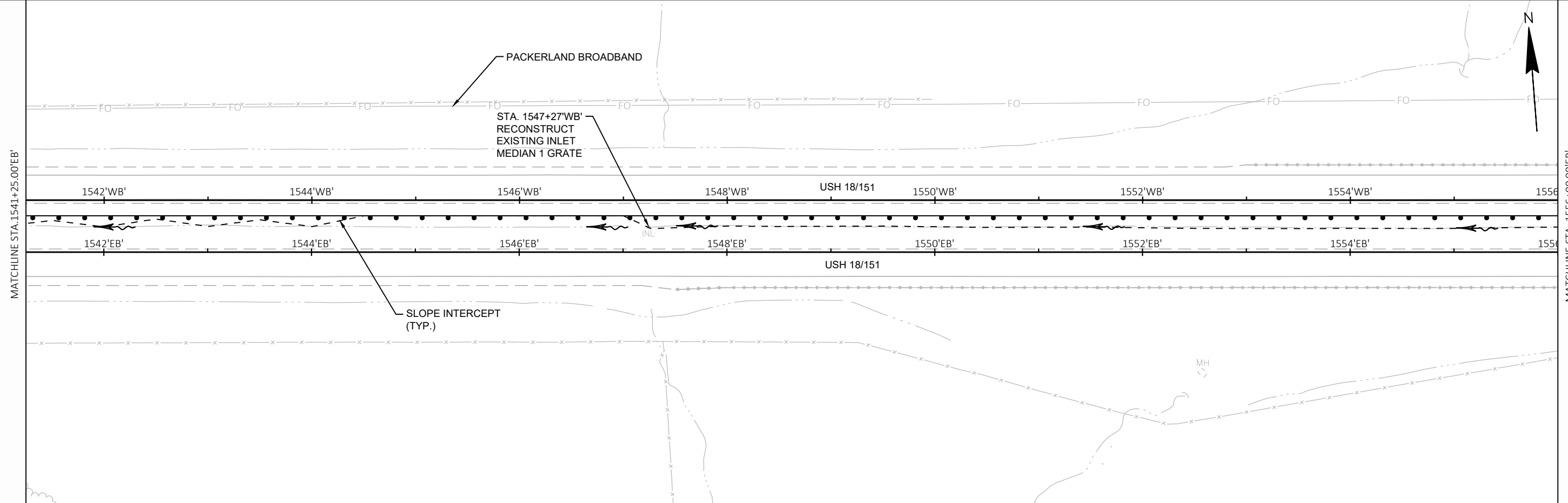
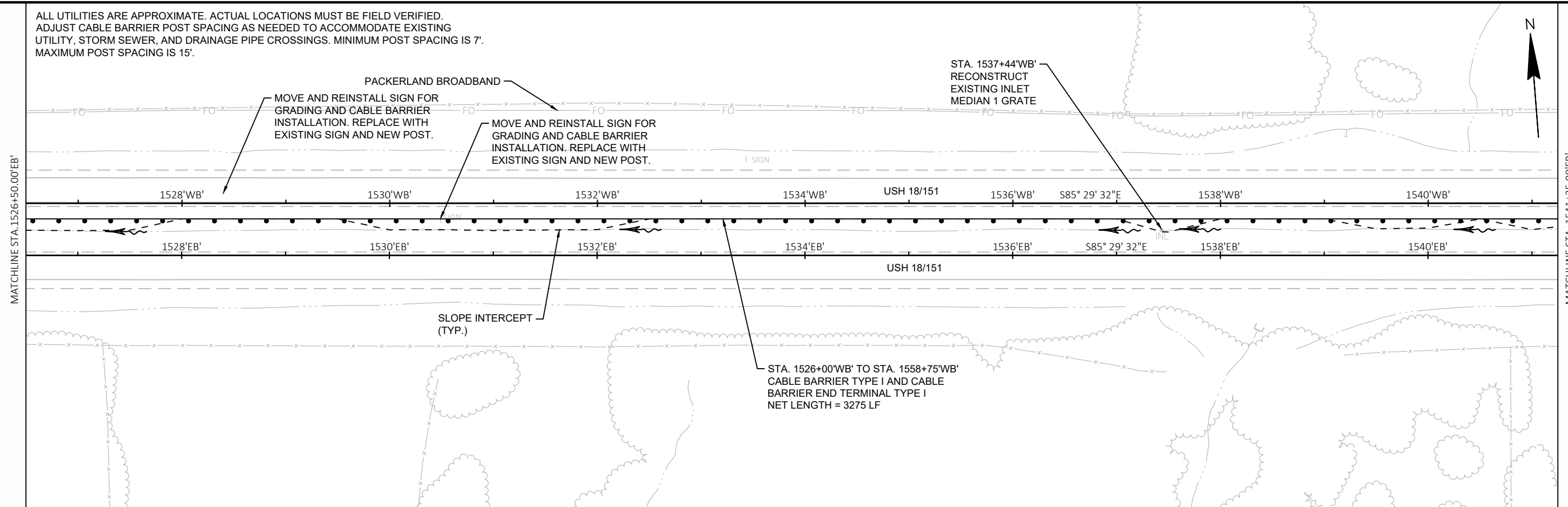
STA. 1323+50'WB' TO STA. 1339+00'WB'
CABLE BARRIER TYPE I AND CABLE
BARRIER END TERMINAL TYPE I
NET LENGTH = 1550 LF

SLOPE INTERCEPT
(TYP.)

STA. 1338+64'WB'
RECONSTRUCT
EXISTING INLET
MEDIAN 1 GRATE



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ADJUST CABLE BARRIER POST SPACING AS NEEDED TO ACCOMMODATE EXISTING
UTILITY, STORM SEWER, AND DRAINAGE PIPE CROSSINGS. MINIMUM POST SPACING IS 7'.
MAXIMUM POST SPACING IS 15'.



PROJECT NO: 1204-05-76

HWY: USH 18

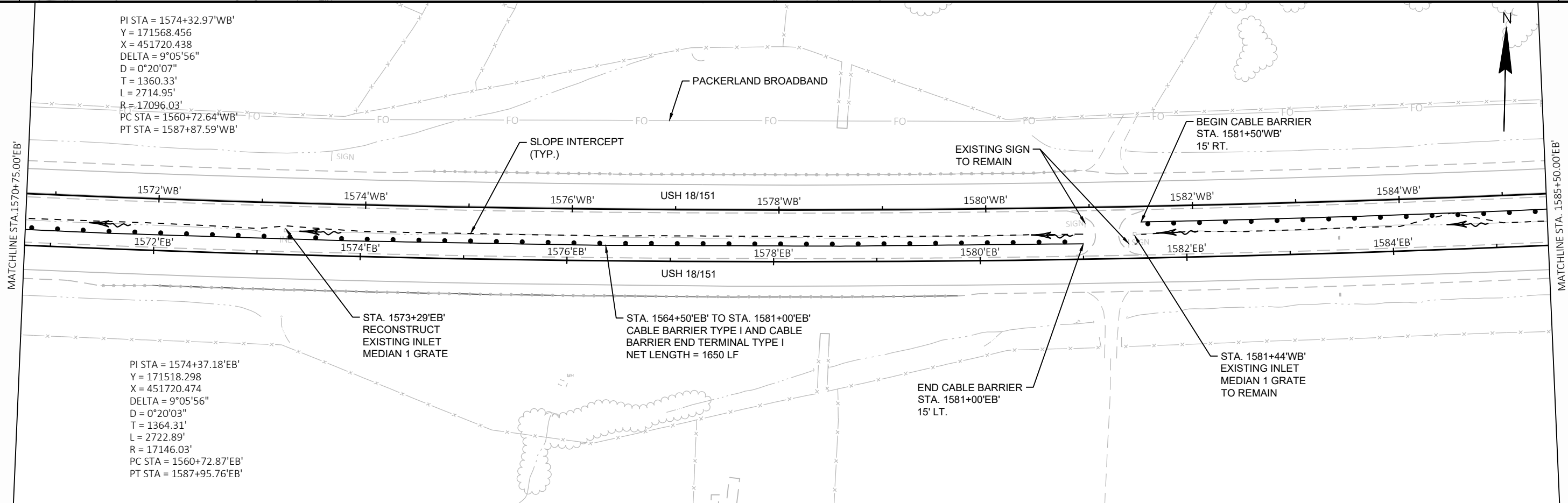
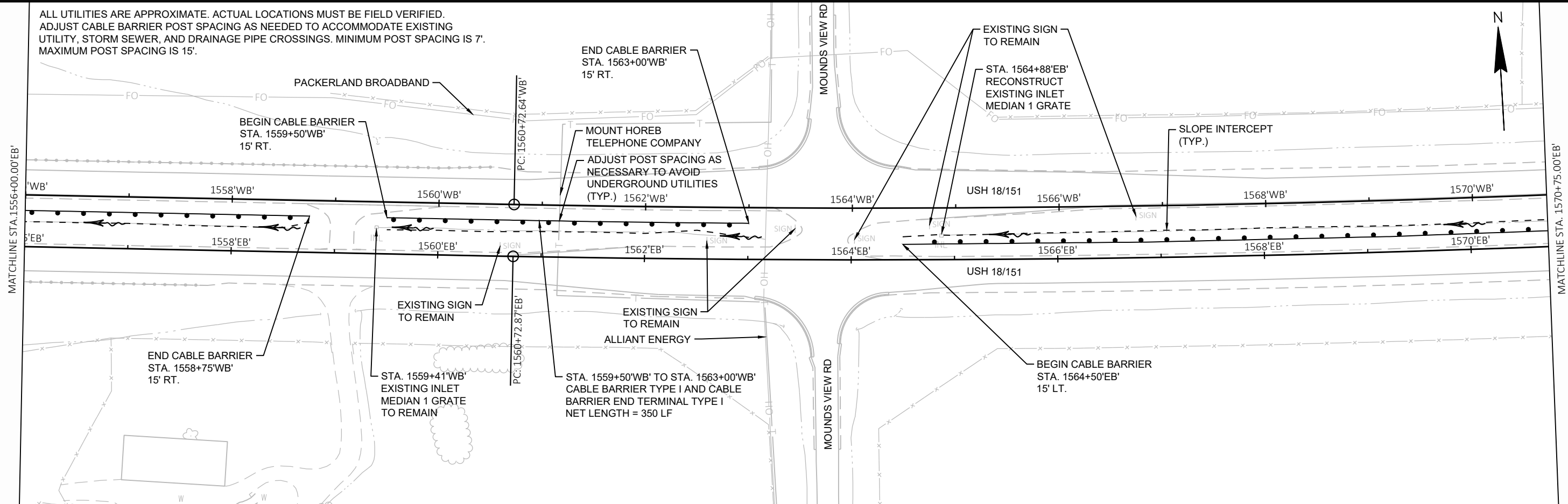
COUNTY: IOWA & DANE

PLAN DETAILS - CABLE BARRIER LAYOUT - IOWA COUNTY

SHEET

E

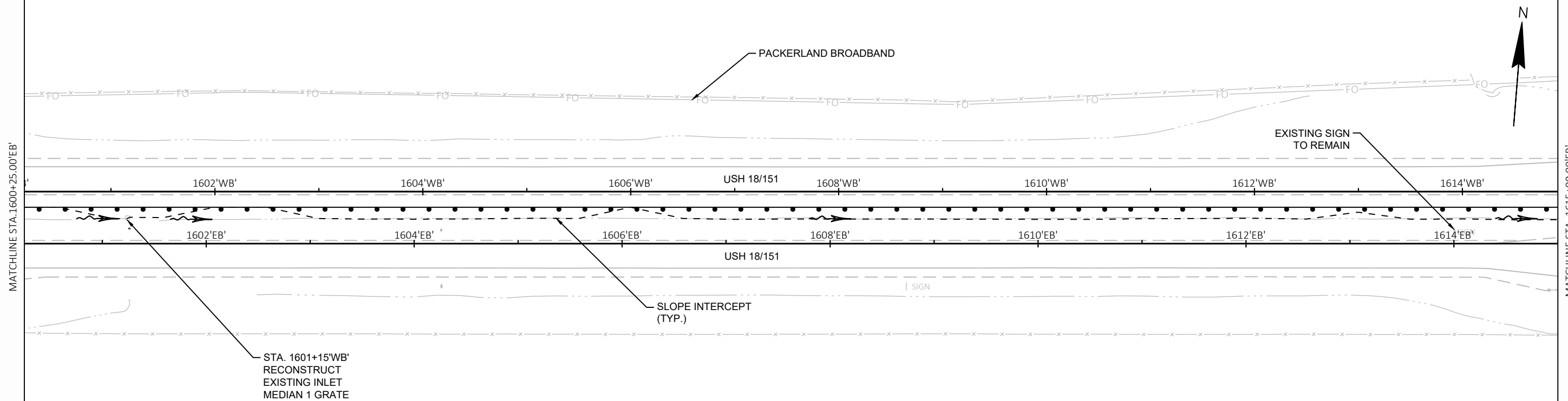
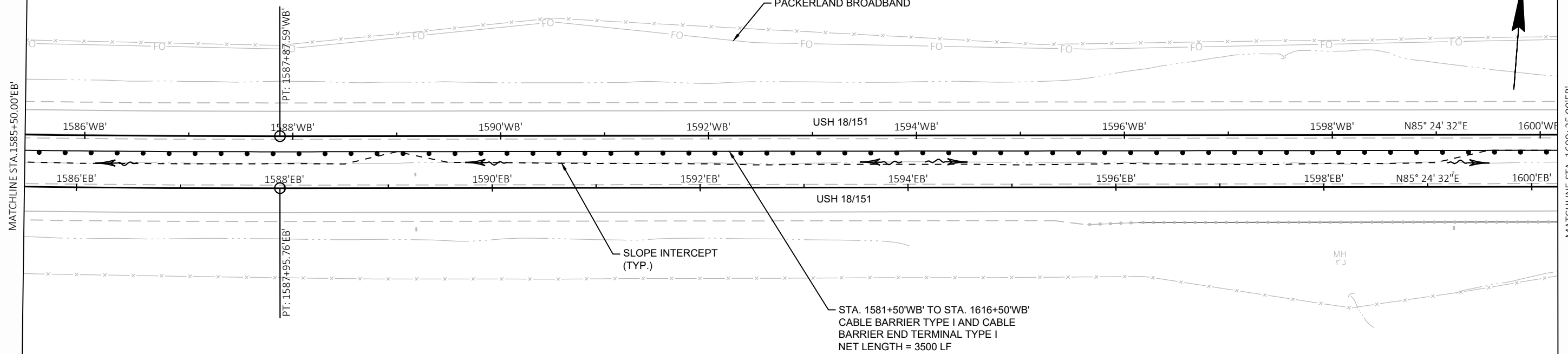
ALL UTILITIES ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.
ADJUST CABLE BARRIER POST SPACING AS NEEDED TO ACCOMMODATE EXISTING
UTILITY, STORM SEWER, AND DRAINAGE PIPE CROSSINGS. MINIMUM POST SPACING IS 7'.
MAXIMUM POST SPACING IS 15'.

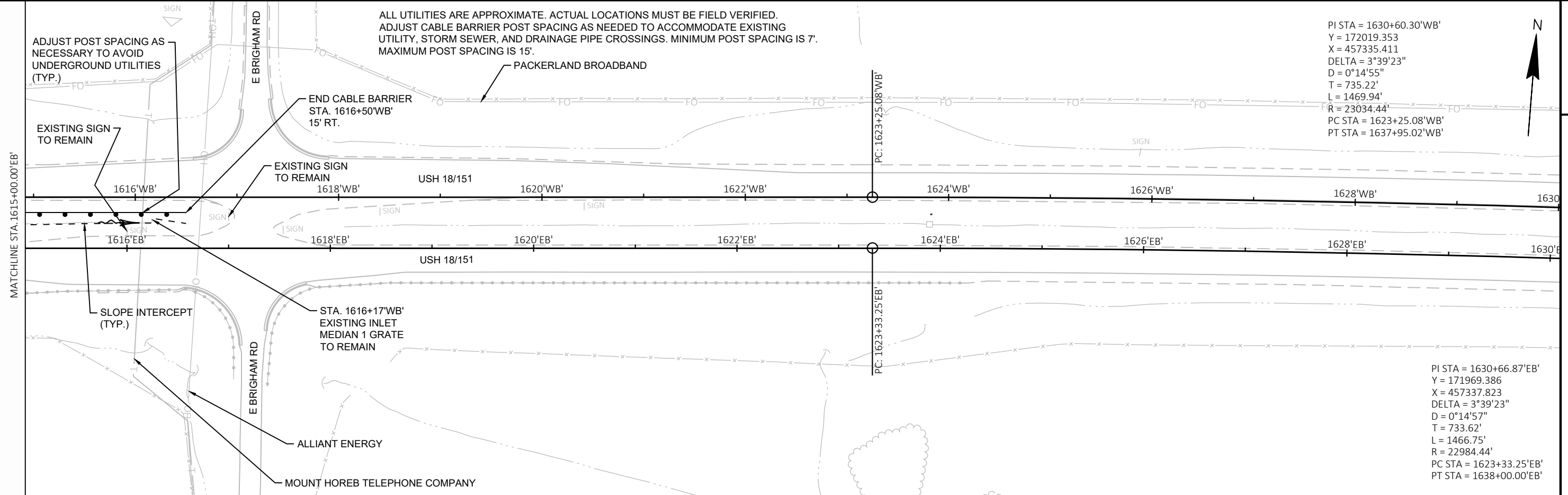


PI STA = 1574+32.97'WB'
 Y = 171568.456
 X = 451720.438
 DELTA = 9°05'56"
 D = 0°20'07"
 T = 1360.33'
 L = 2714.95'
 R = 17096.03'
 PC STA = 1560+72.64'WB'
 PT STA = 1587+87.59'WB'

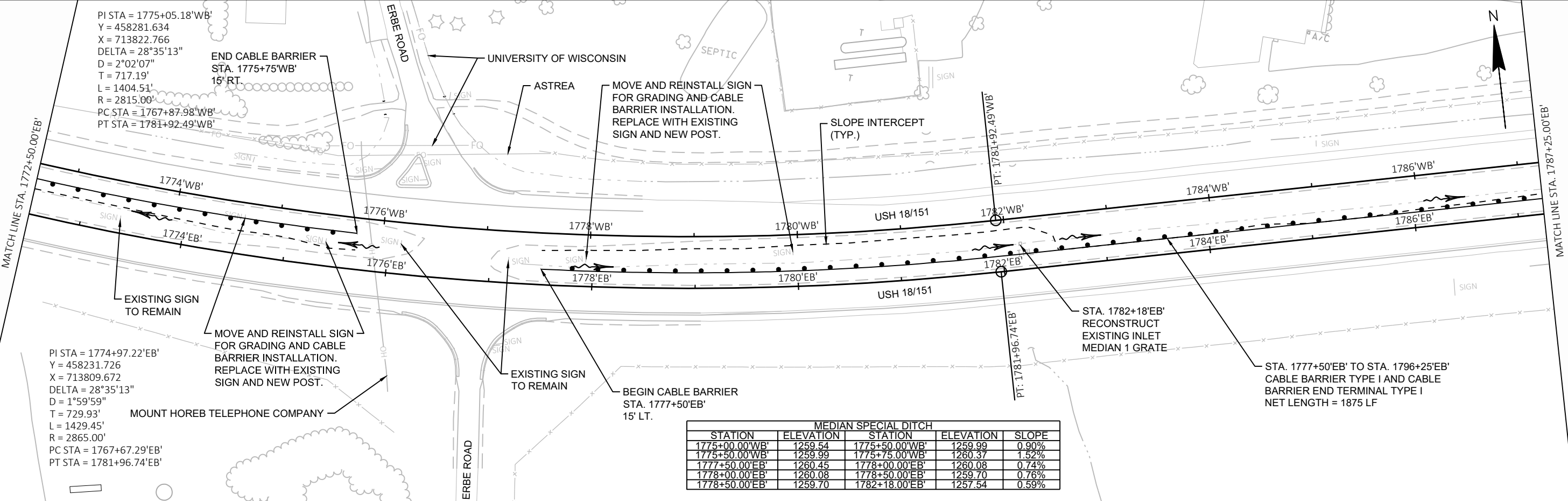
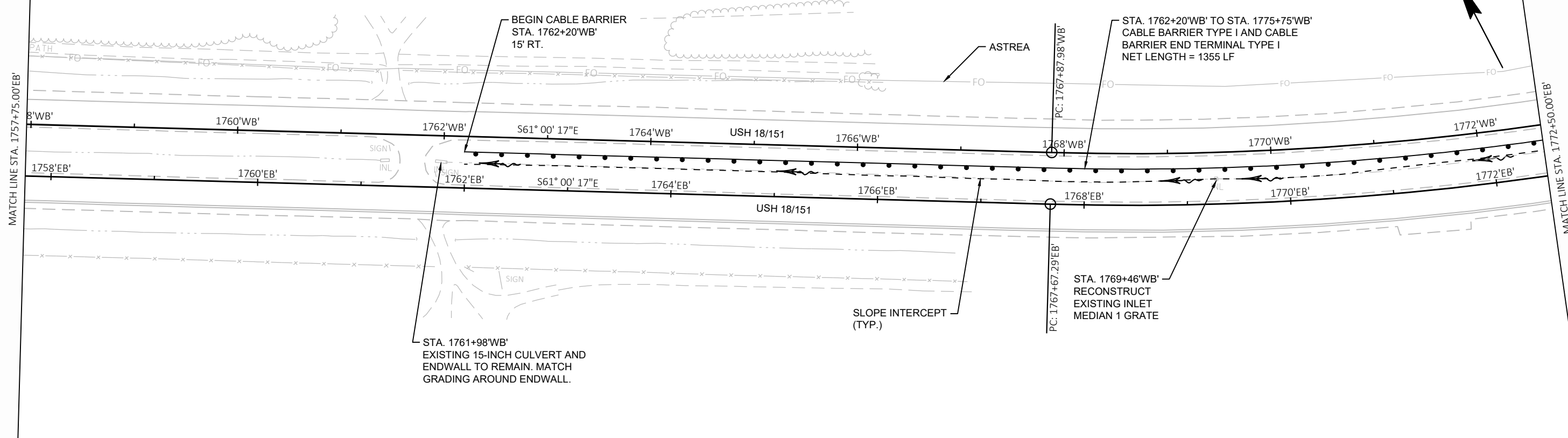
PI STA = 1574+37.18'EB'
 Y = 171518.298
 X = 451720.474
 DELTA = 9°05'56"
 D = 0°20'03"
 T = 1364.31'
 L = 2722.89'
 R = 17146.03'
 PC STA = 1560+72.87'EB'
 PT STA = 1587+95.76'EB'

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ADJUST CABLE BARRIER POST SPACING AS NEEDED TO ACCOMMODATE EXISTING
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MAXIMUM POST SPACING IS 15'.





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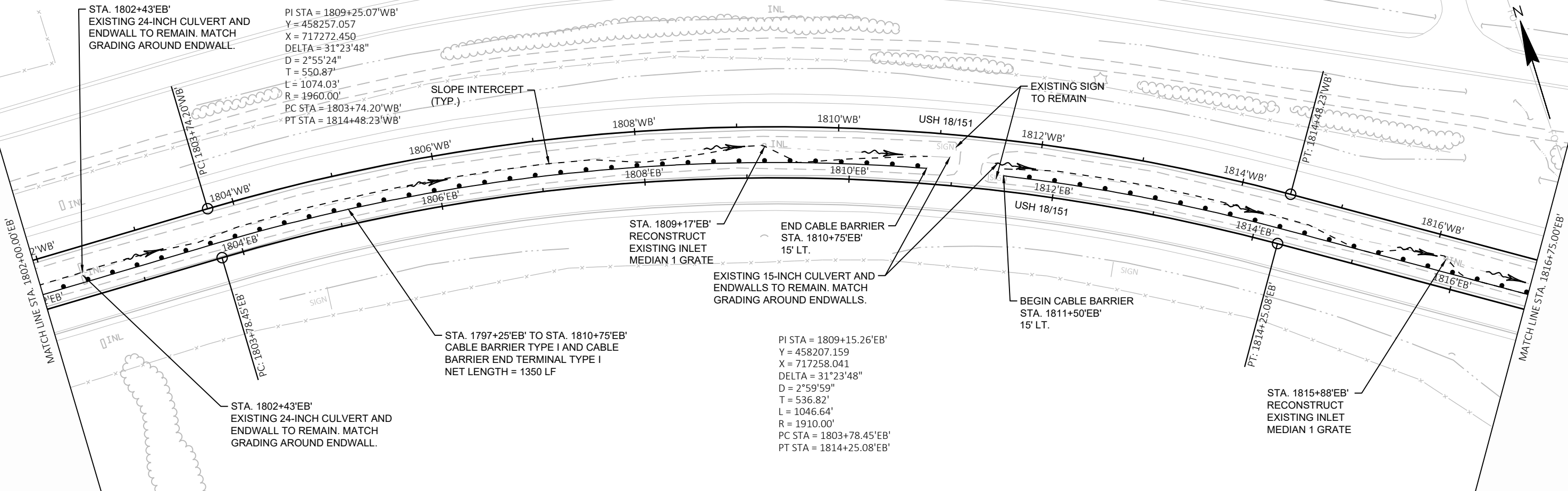
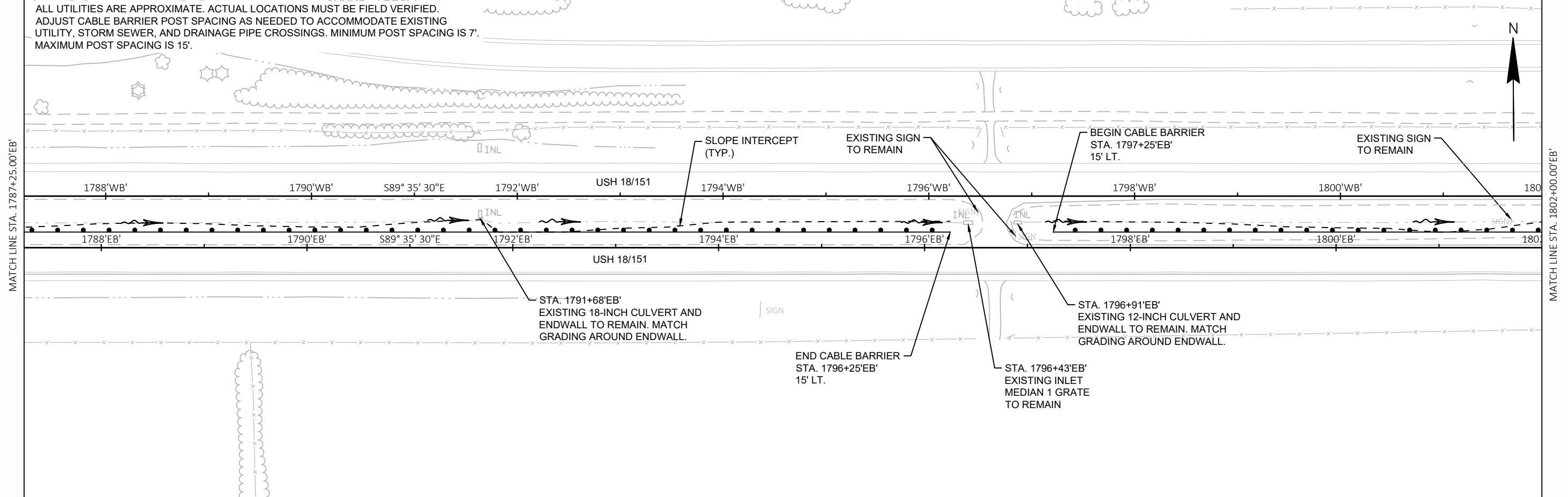


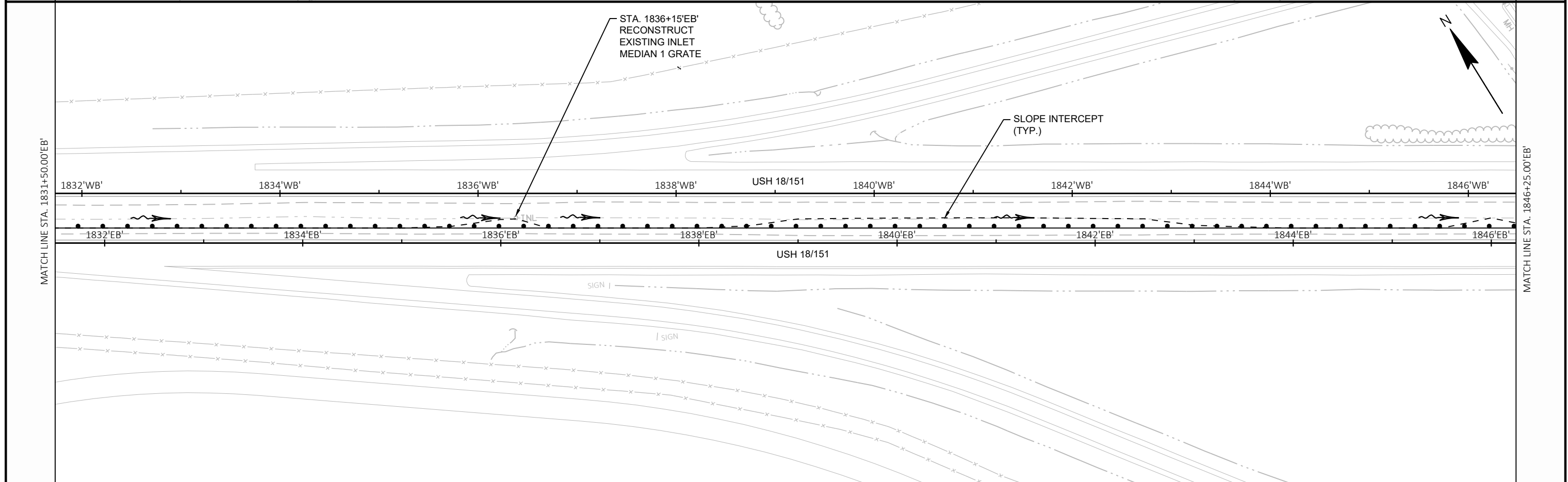
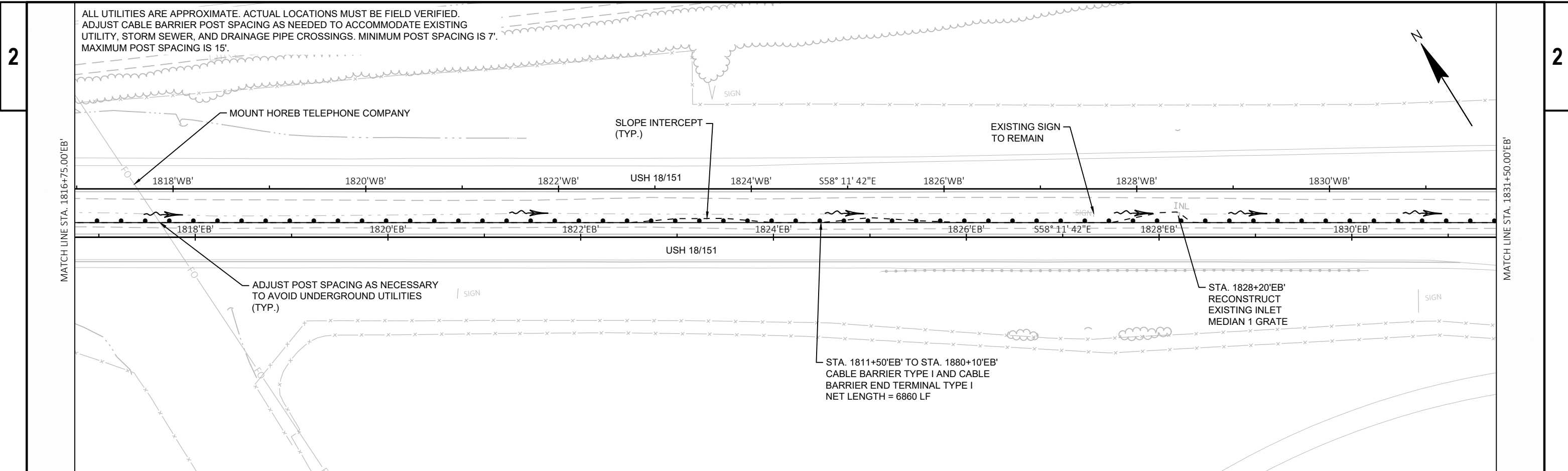
MEDIAN SPECIAL DITCH				
STATION	ELEVATION	STATION	ELEVATION	SLOPE
1775+00.00'WB'	1259.54	1775+50.00'WB'	1259.99	0.90%
1775+50.00'WB'	1259.99	1775+75.00'WB'	1260.37	1.52%
1777+50.00'EB'	1260.45	1778+00.00'EB'	1260.08	0.74%
1778+00.00'EB'	1260.08	1778+50.00'EB'	1259.70	0.76%
1778+50.00'EB'	1259.70	1782+18.00'EB'	1257.54	0.59%

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 MAXIMUM POST SPACING IS 15'.

MATCH LINE STA. 1787+25.00'EB'

MATCH LINE STA. 1802+00.00'EB'



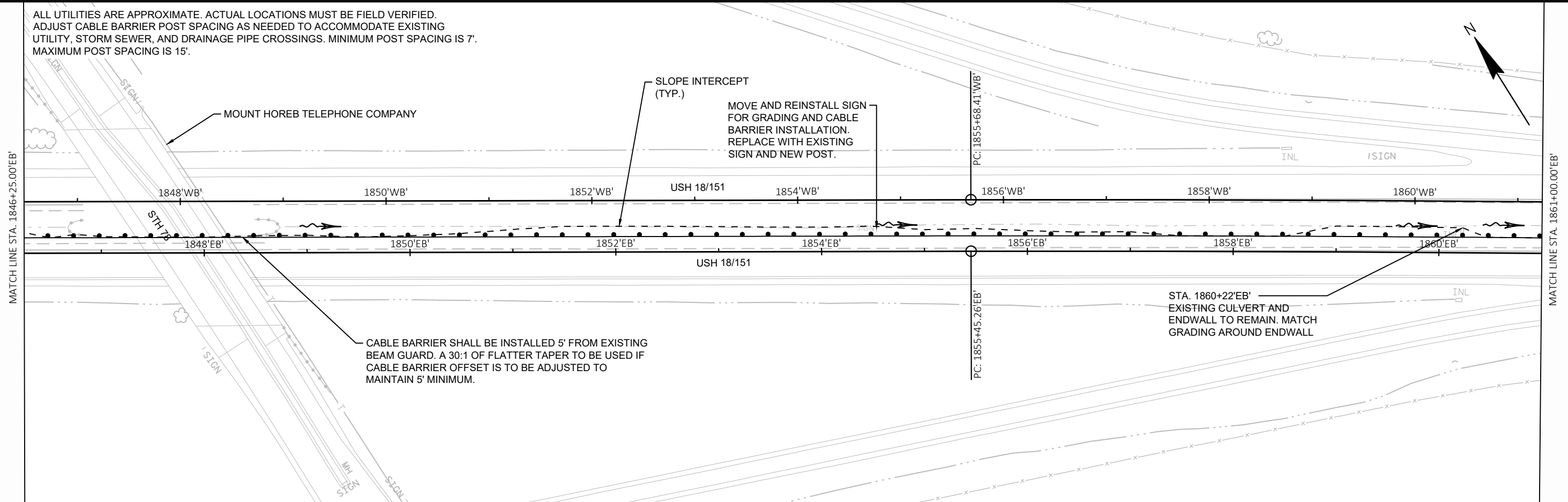


PROJECT NO: 1204-05-76	HWY: USH 18	COUNTY: IOWA & DANE	PLAN DETAILS - CABLE BARRIER LAYOUT - DANE COUNTY	SHEET	E
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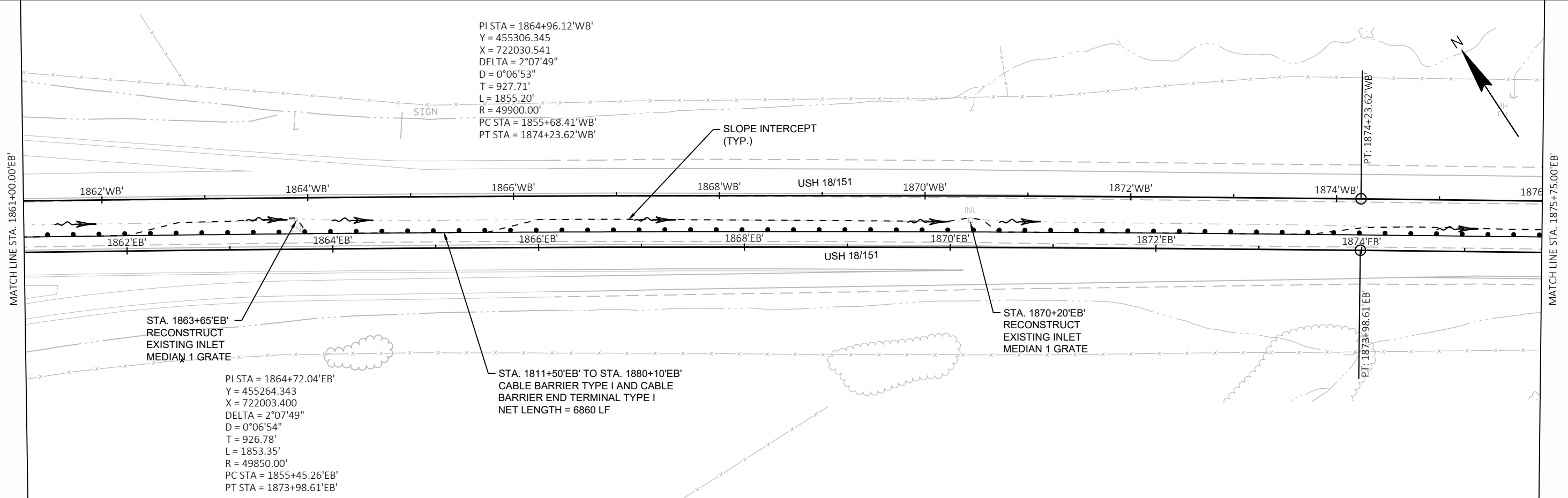
MATCH LINE STA. 1846+25.00'EB'

MATCH LINE STA. 1861+00.00'EB'



MATCH LINE STA. 1861+00.00'EB'

MATCH LINE STA. 1875+75.00'EB'



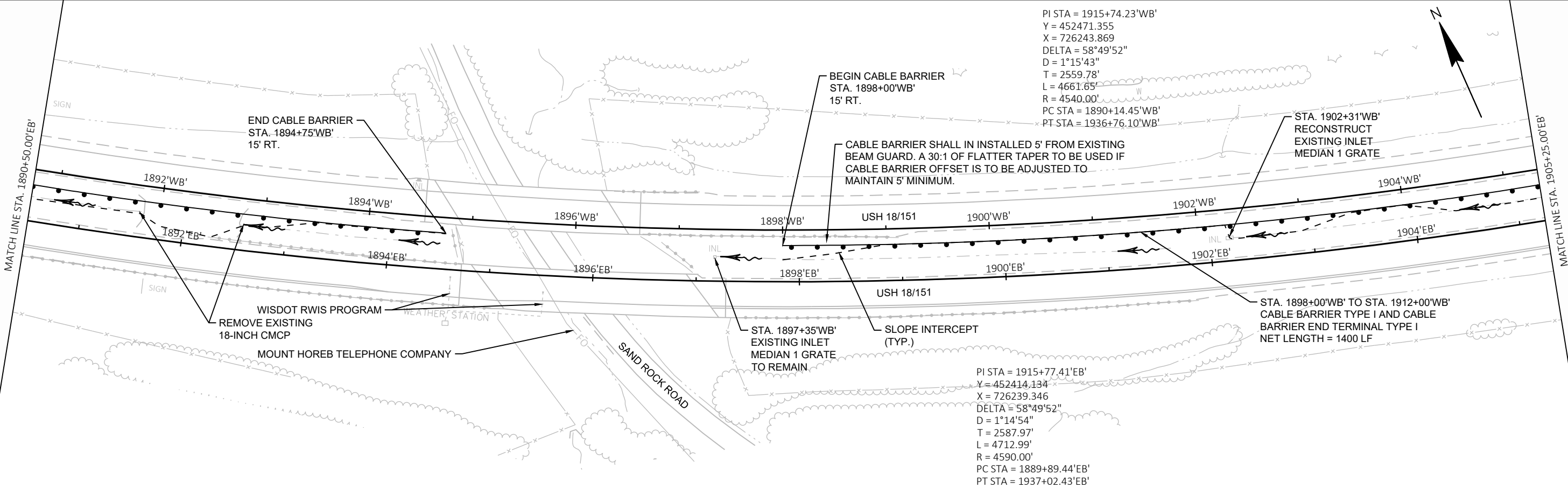
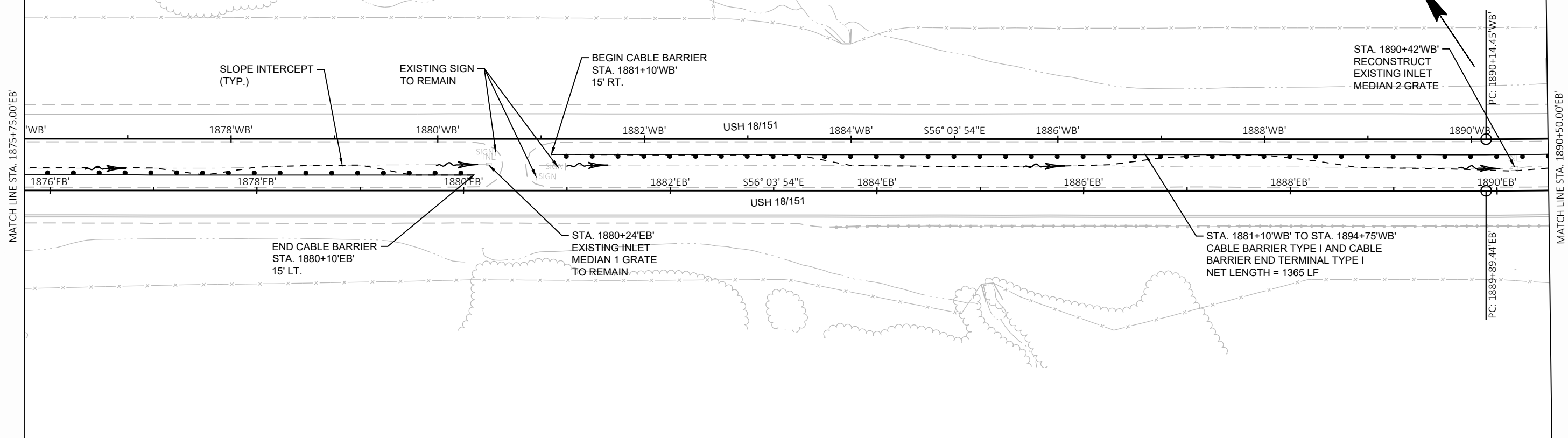
PI STA = 1864+96.12'WB'
 Y = 455306.345
 X = 722030.541
 DELTA = 2°07'49"
 D = 0°06'53"
 T = 927.71'
 L = 1855.20'
 R = 49900.00'
 PC STA = 1855+68.41'WB'
 PT STA = 1874+23.62'WB'

STA. 1863+65'EB'
 RECONSTRUCT
 EXISTING INLET
 MEDIAN 1 GRATE

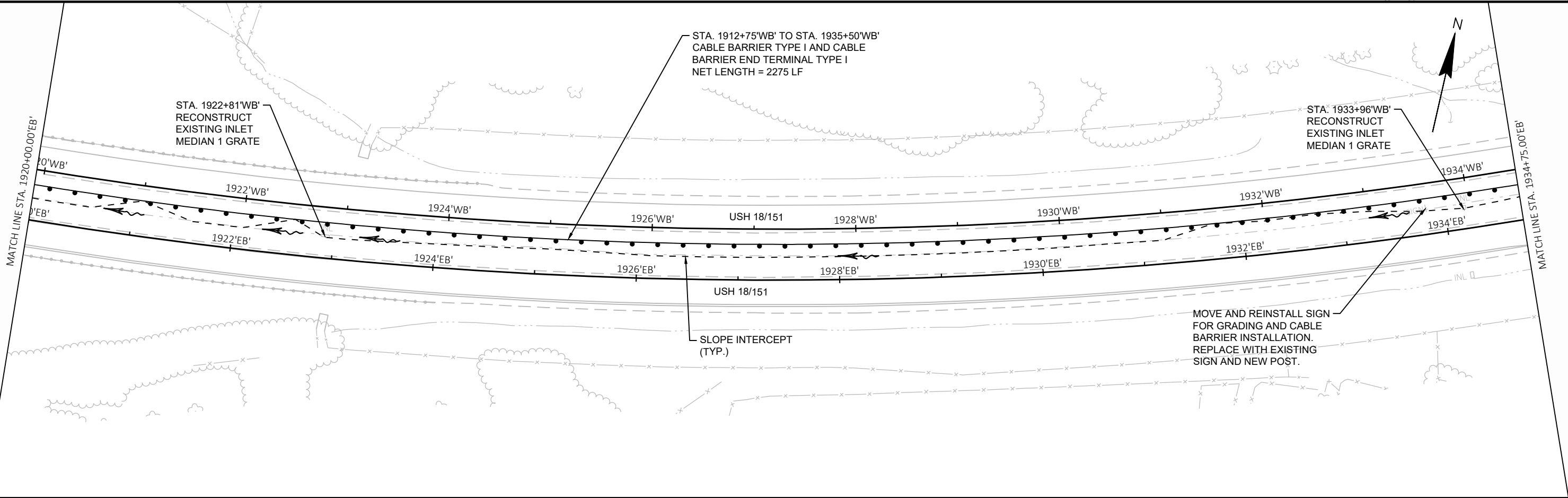
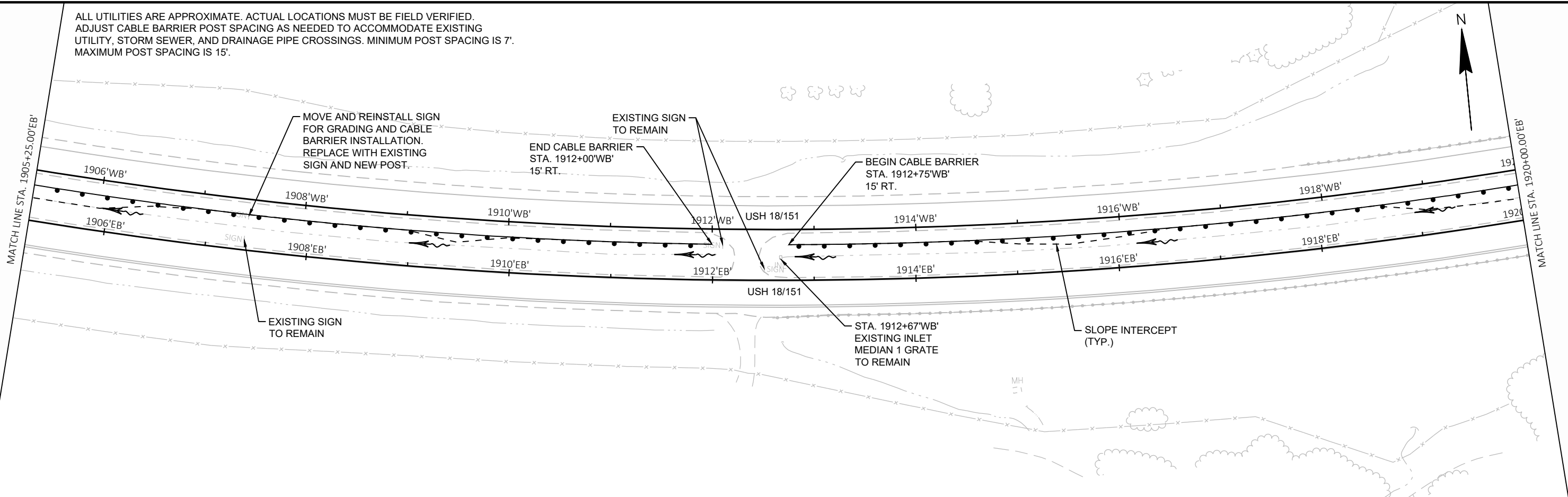
PI STA = 1864+72.04'EB'
 Y = 455264.343
 X = 722003.400
 DELTA = 2°07'49"
 D = 0°06'54"
 T = 926.78'
 L = 1853.35'
 R = 49850.00'
 PC STA = 1855+45.26'EB'
 PT STA = 1873+98.61'EB'

STA. 1811+50'EB' TO STA. 1880+10'EB'
 CABLE BARRIER TYPE I AND CABLE
 BARRIER END TERMINAL TYPE I
 NET LENGTH = 6860 LF

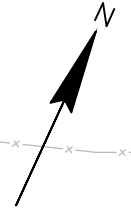
ALL UTILITIES ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.
 ADJUST CABLE BARRIER POST SPACING AS NEEDED TO ACCOMMODATE EXISTING
 UTILITY, STORM SEWER, AND DRAINAGE PIPE CROSSINGS. MINIMUM POST SPACING IS 7'.
 MAXIMUM POST SPACING IS 15'.



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 ADJUST CABLE BARRIER POST SPACING AS NEEDED TO ACCOMMODATE EXISTING
 UTILITY, STORM SEWER, AND DRAINAGE PIPE CROSSINGS. MINIMUM POST SPACING IS 7'.
 MAXIMUM POST SPACING IS 15'.



MATCH LINE STA. 1934+75.00'EB'

MATCH LINE STA. 1949+50.00'EB'

1936'WB' 1938'WB' 1940'WB' N65° 06' 15"E 1942'WB' USH 18/151 1944'WB' 1946'WB' 1948'WB'

1936'EB' 1938'EB' 1940'EB' N65° 06' 15"E 1942'EB' 1944'EB' 1946'EB' 1948'EB'

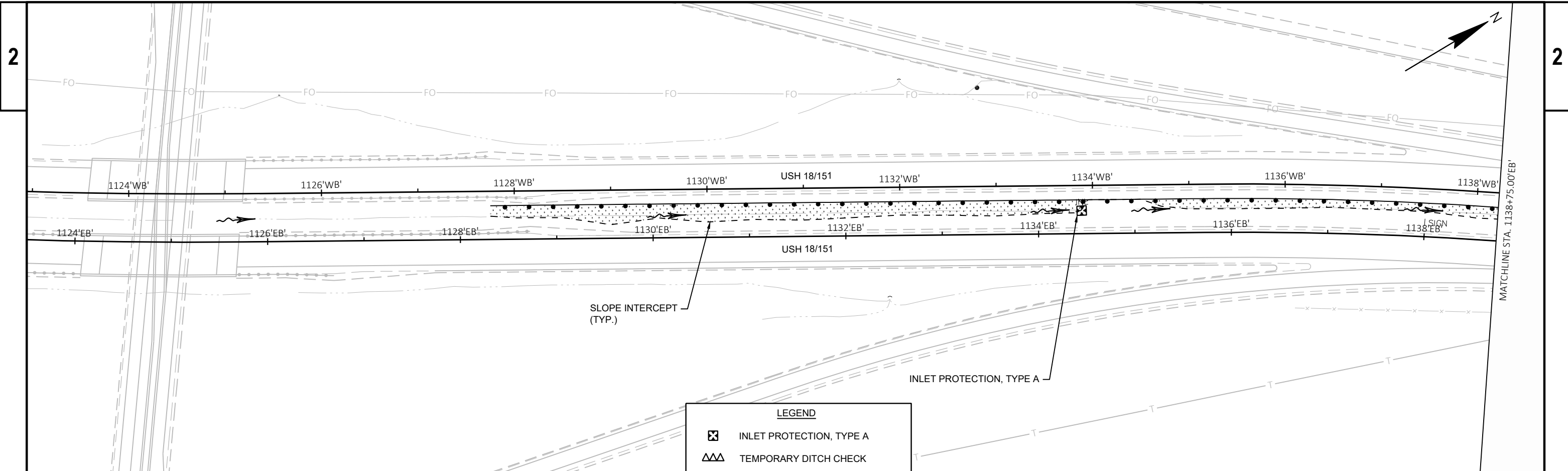
USH 18/151

CABLE BARRIER SHALL IN INSTALLED 5' FROM EXISTING
 BEAM GUARD. A 30:1 OF FLATTER TAPER TO BE USED IF
 CABLE BARRIER OFFSET IS TO BE ADJUSTED TO
 MAINTAIN 5' MINIMUM.

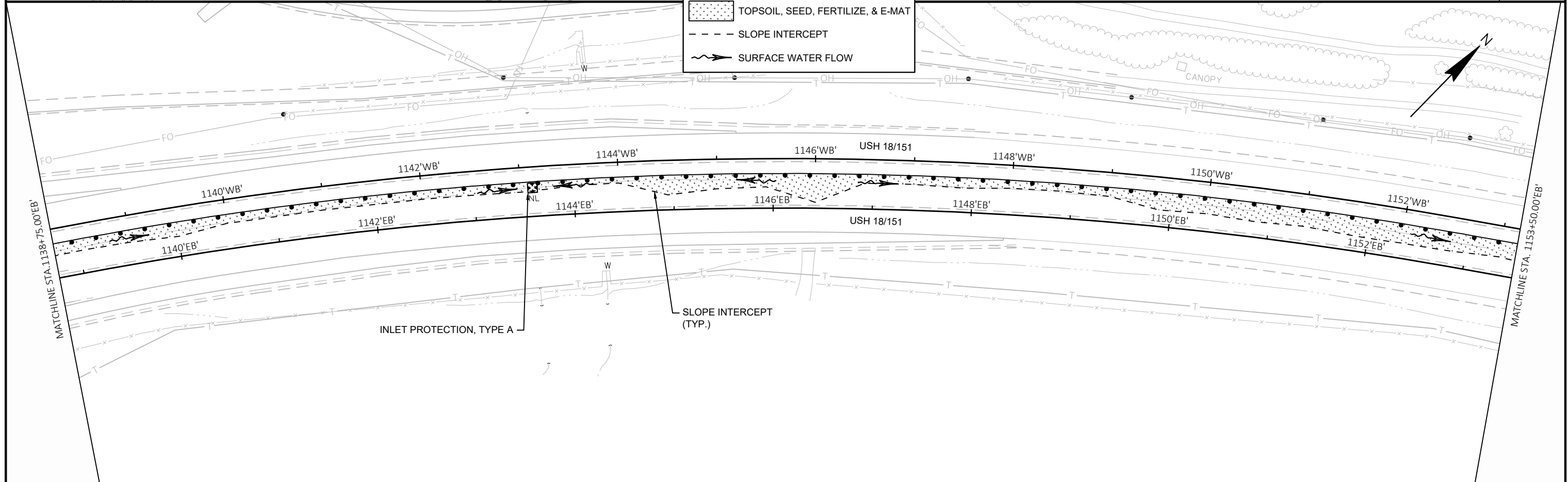
END CABLE BARRIER
 STA. 1935+50'WB'
 15' RT.

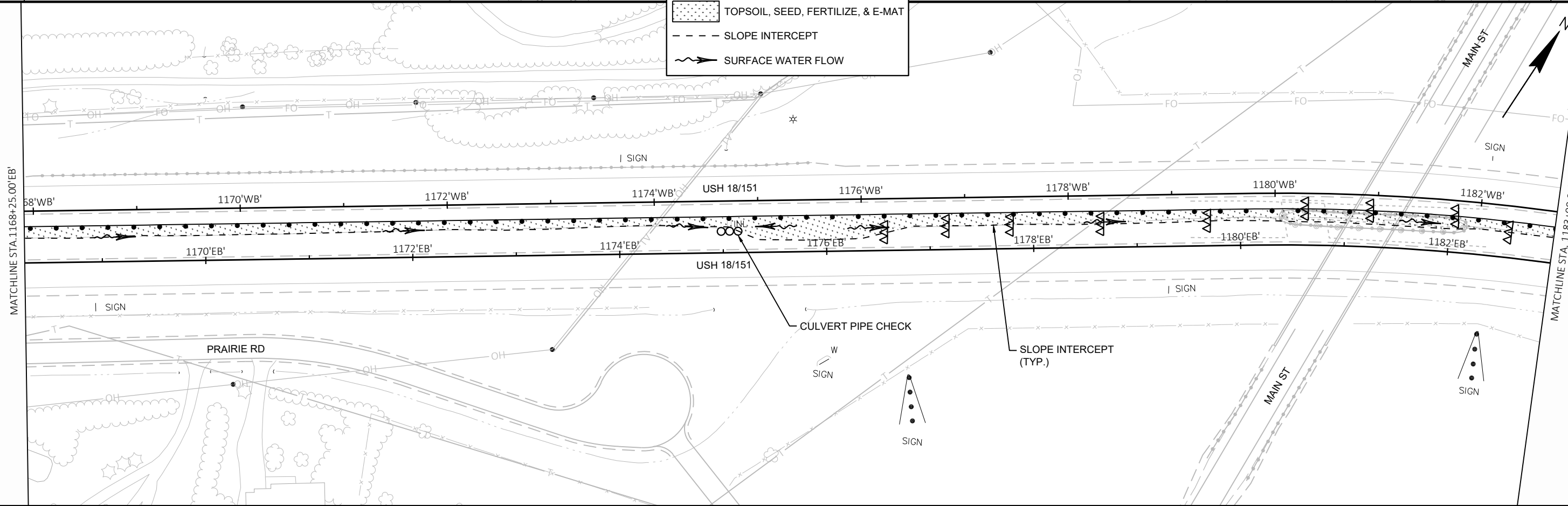
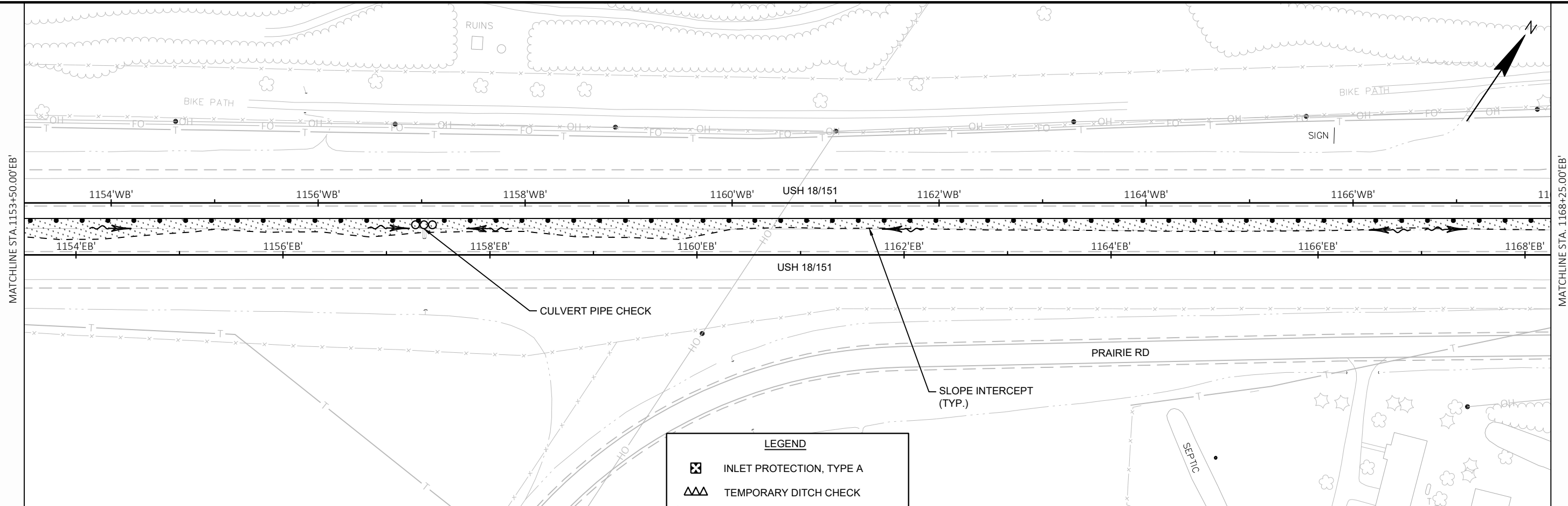
SLOPE INTERCEPT
 (TYP.)

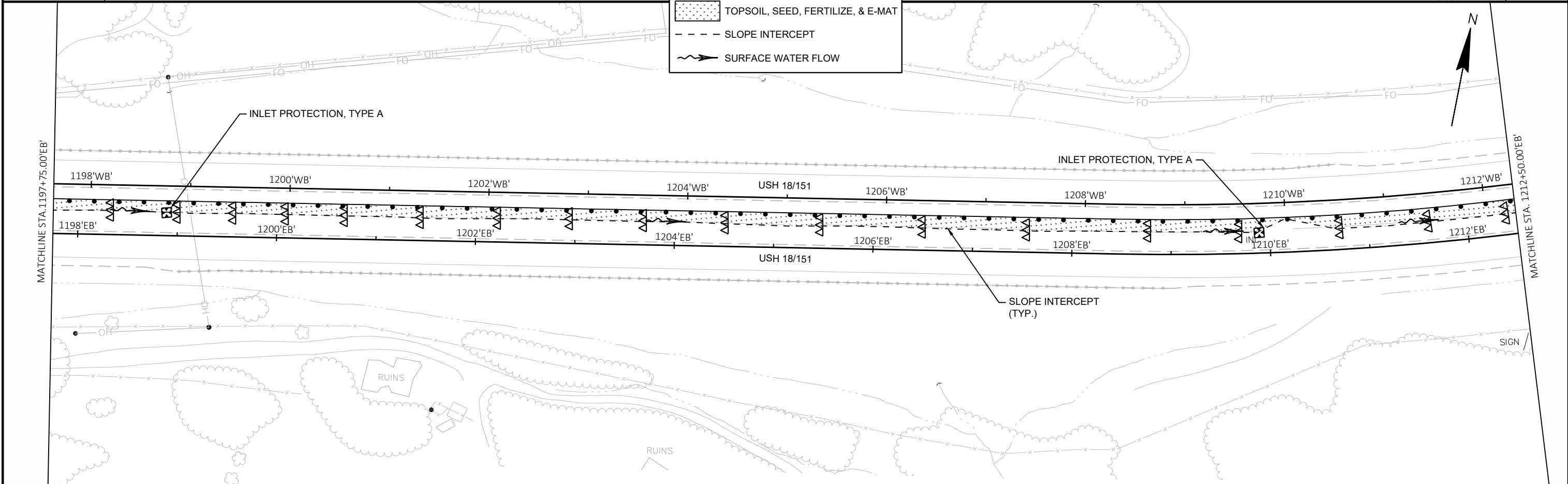
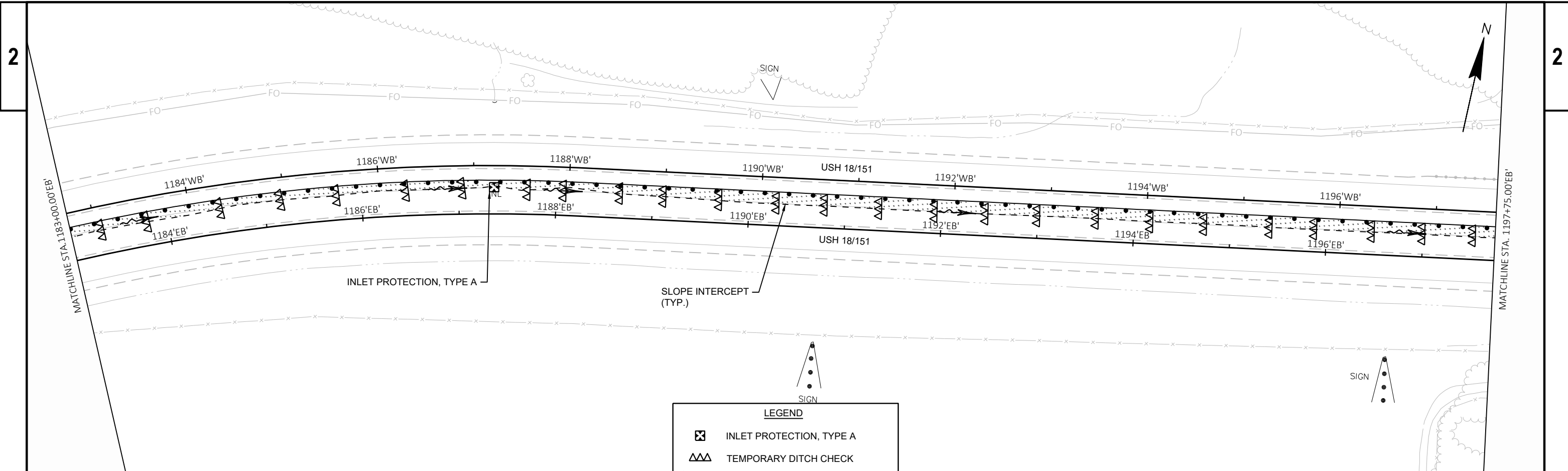
ATC MANAGEMENT INC.
 MOUNT HOREB TELEPHONE COMPANY

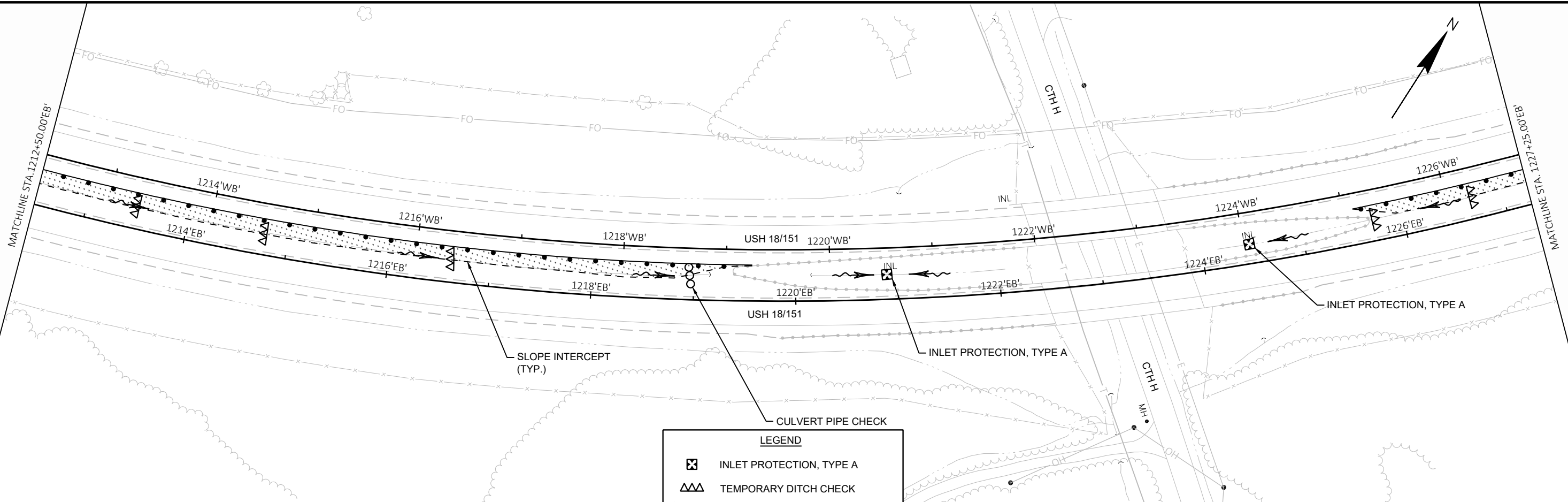


LEGEND	
	INLET PROTECTION, TYPE A
	TEMPORARY DITCH CHECK
	TOPSOIL, SEED, FERTILIZE, & E-MAT
	SLOPE INTERCEPT
	SURFACE WATER FLOW




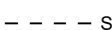



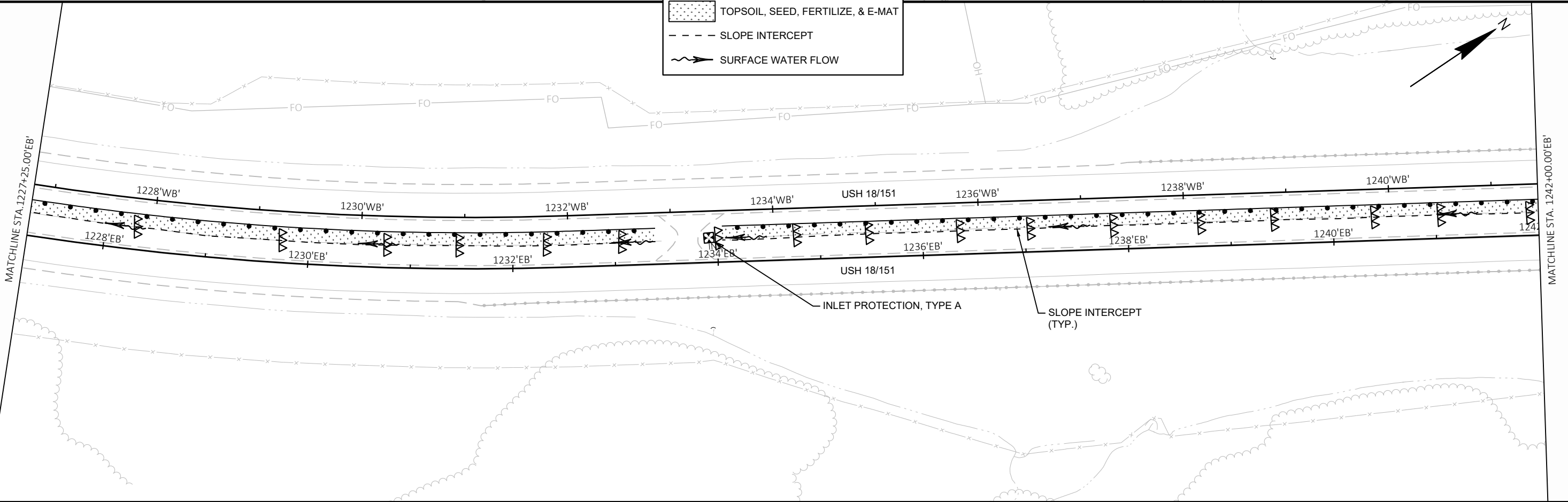


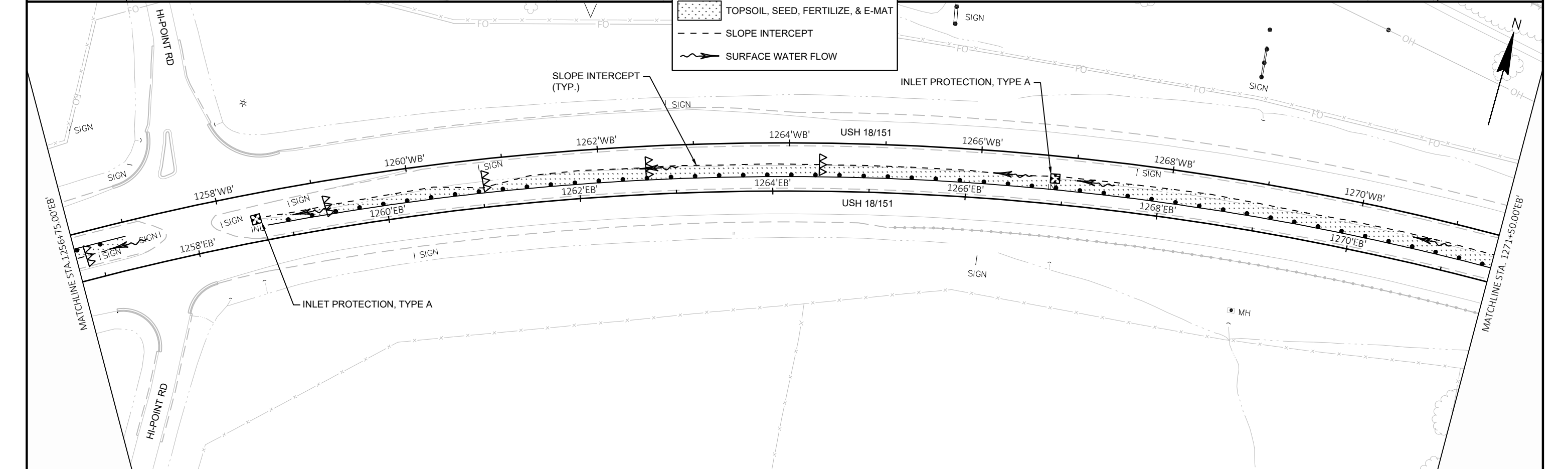
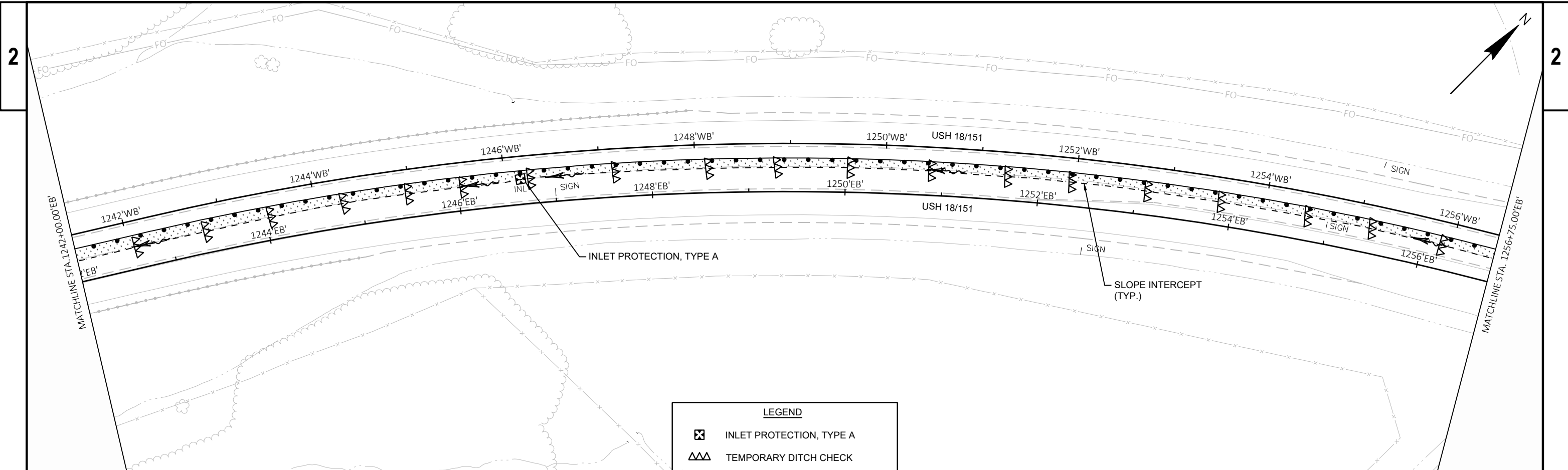




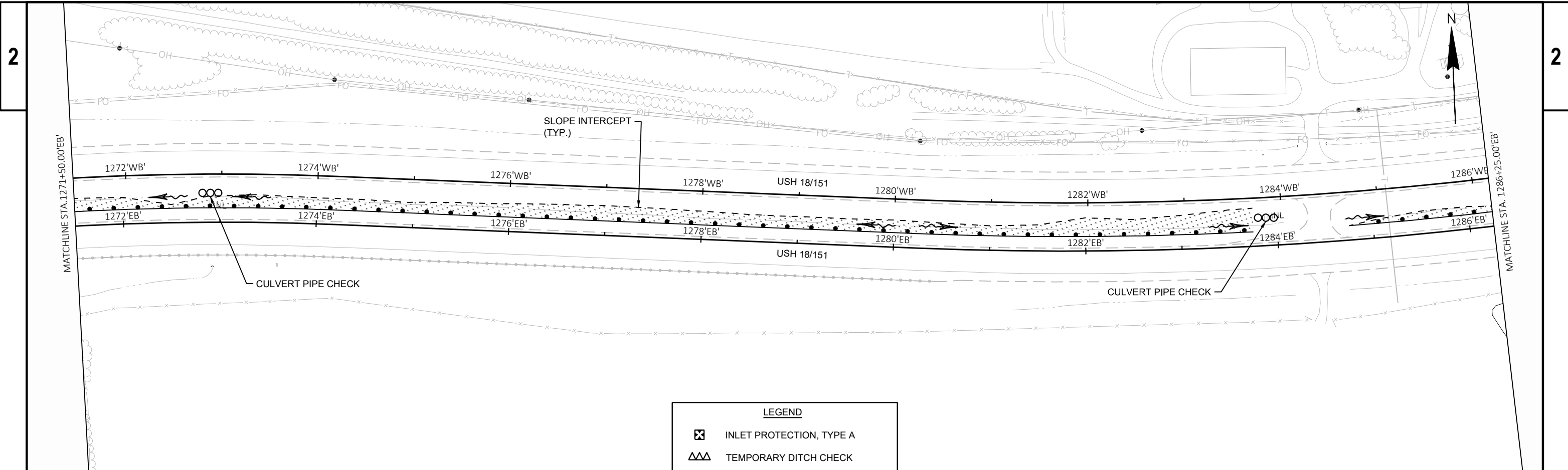
LEGEND

-  INLET PROTECTION, TYPE A
-  TEMPORARY DITCH CHECK
-  TOPSOIL, SEED, FERTILIZE, & E-MAT
-  SLOPE INTERCEPT
-  SURFACE WATER FLOW

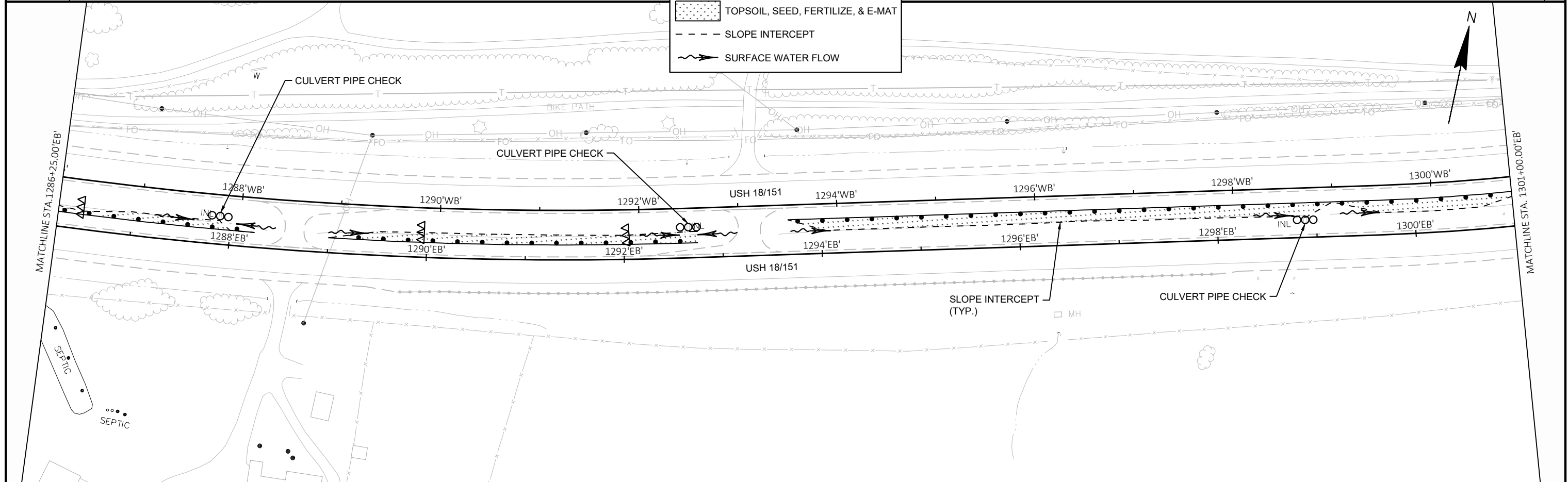




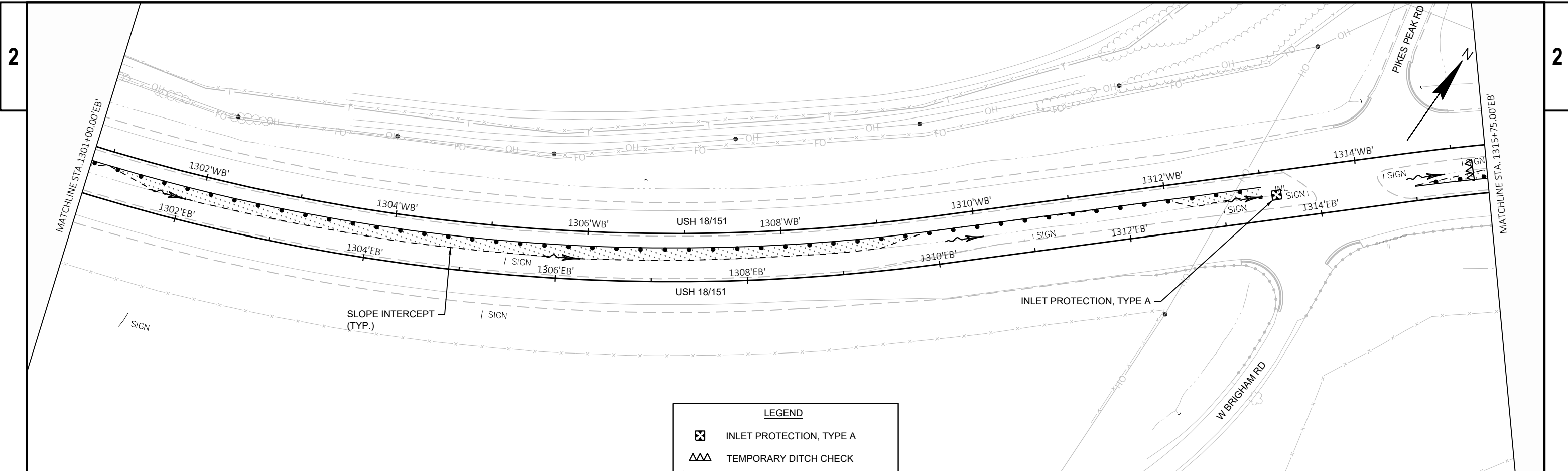
PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE EROSION CONTROL - IOWA COUNTY SHEET E






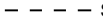

LEGEND	
	INLET PROTECTION, TYPE A
	TEMPORARY DITCH CHECK
	TOPSOIL, SEED, FERTILIZE, & E-MAT
	SLOPE INTERCEPT
	SURFACE WATER FLOW

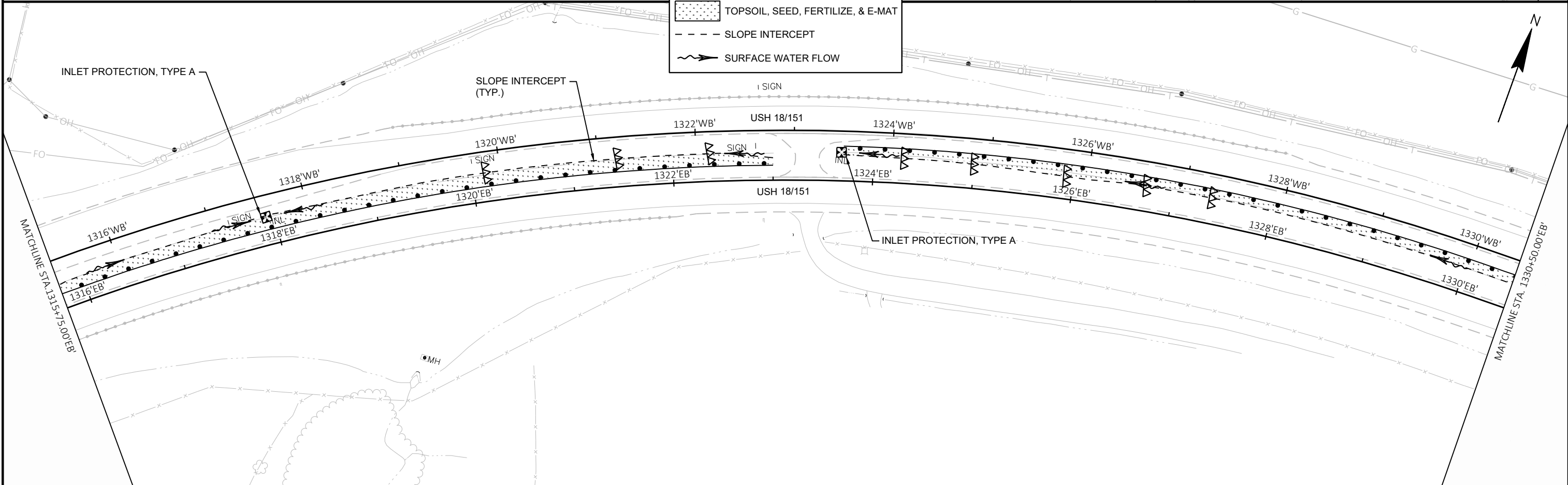


PROJECT NO: 1204-05-76	HWY: USH 18	COUNTY: IOWA & DANE	EROSION CONTROL - IOWA COUNTY	SHEET	E
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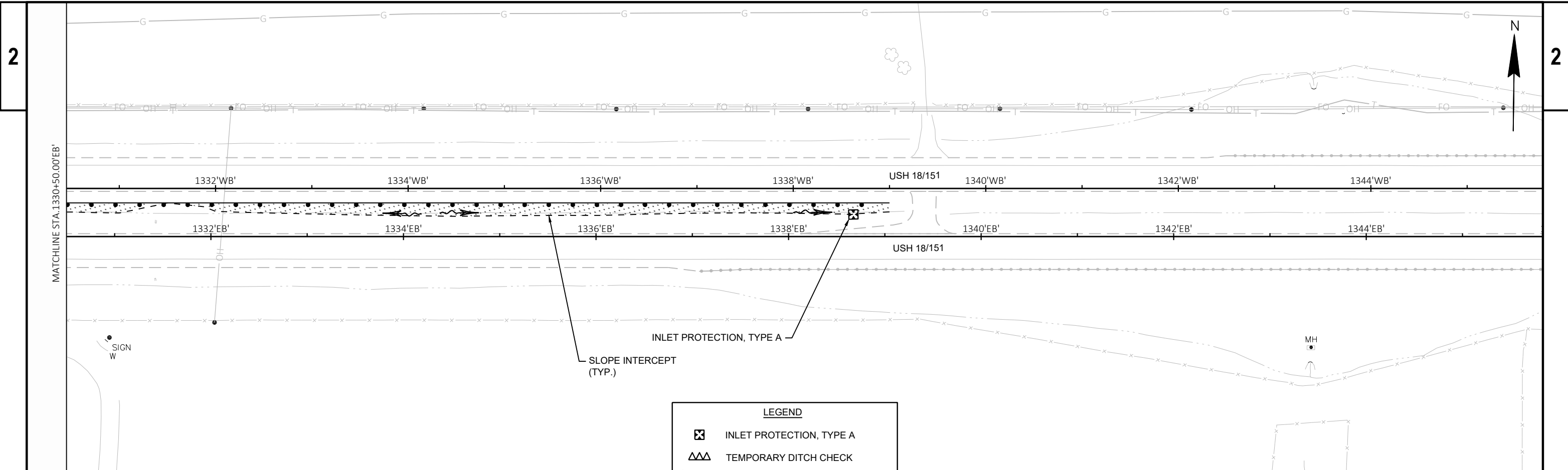


LEGEND

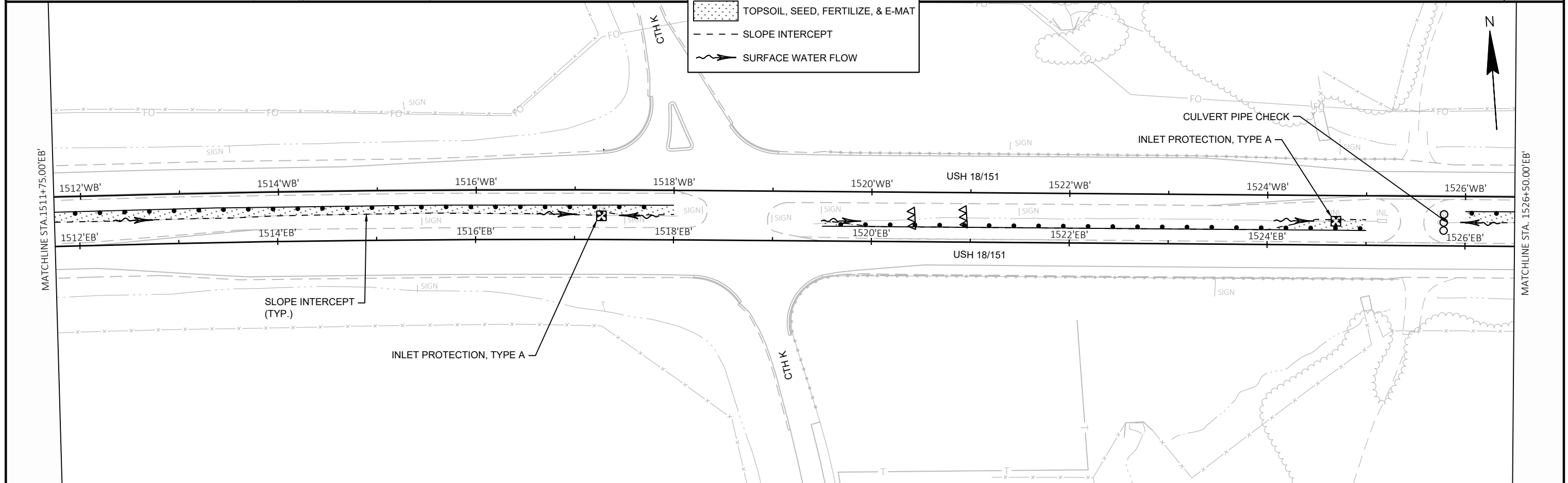
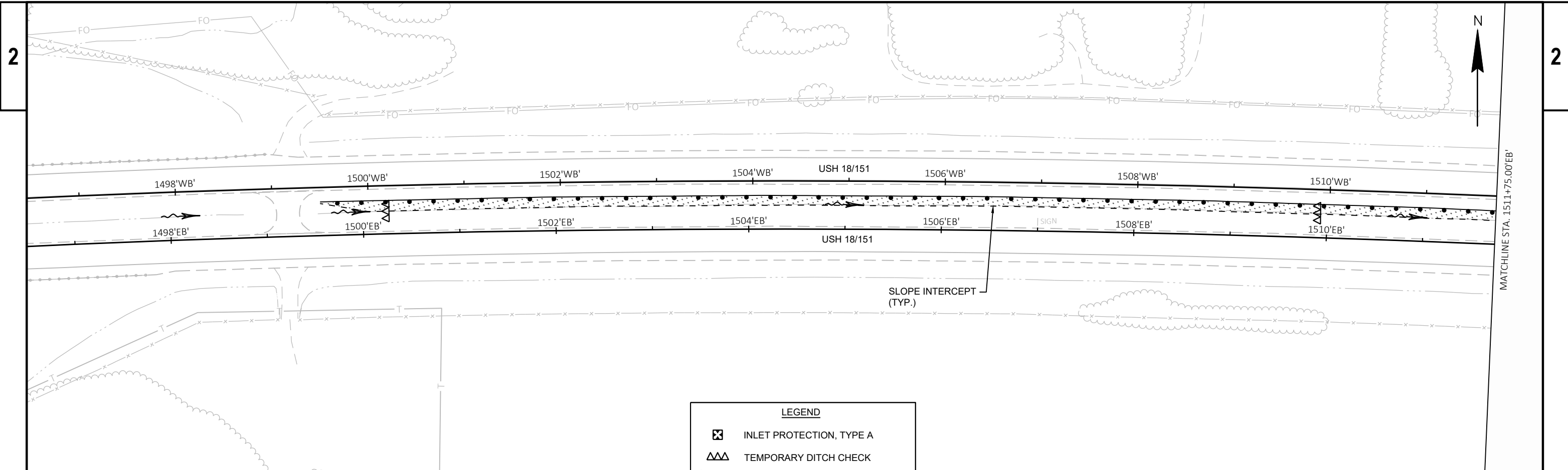
-  INLET PROTECTION, TYPE A
-  TEMPORARY DITCH CHECK
-  TOPSOIL, SEED, FERTILIZE, & E-MAT
-  SLOPE INTERCEPT
-  SURFACE WATER FLOW



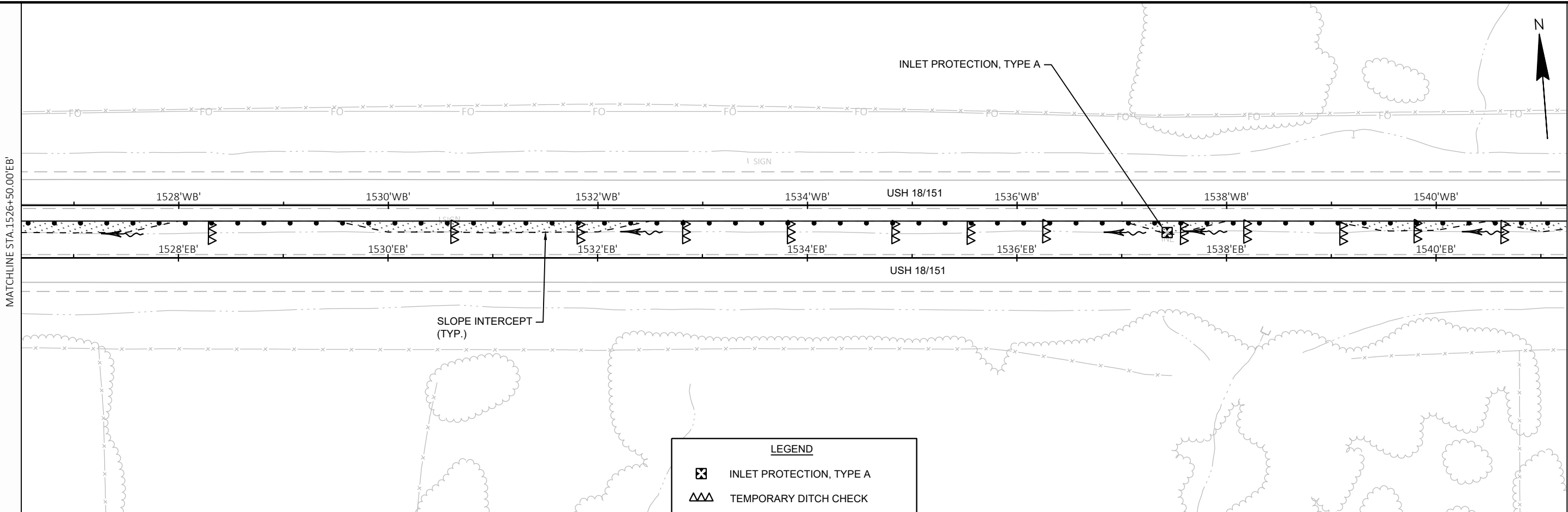
PROJECT NO: 1204-05-76	HWY: USH 18	COUNTY: IOWA & DANE	EROSION CONTROL - IOWA COUNTY	SHEET	E
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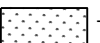


LEGEND	
	INLET PROTECTION, TYPE A
	TEMPORARY DITCH CHECK
	TOPSOIL, SEED, FERTILIZE, & E-MAT
	SLOPE INTERCEPT
	SURFACE WATER FLOW

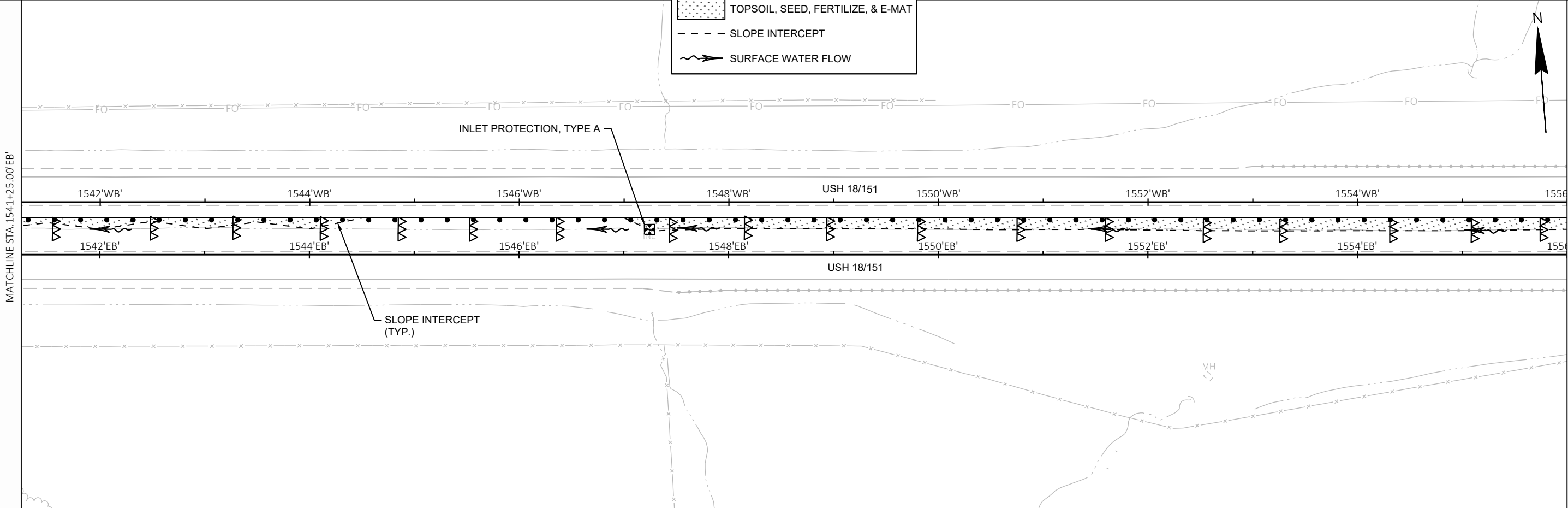


PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE EROSION CONTROL - IOWA COUNTY SHEET E

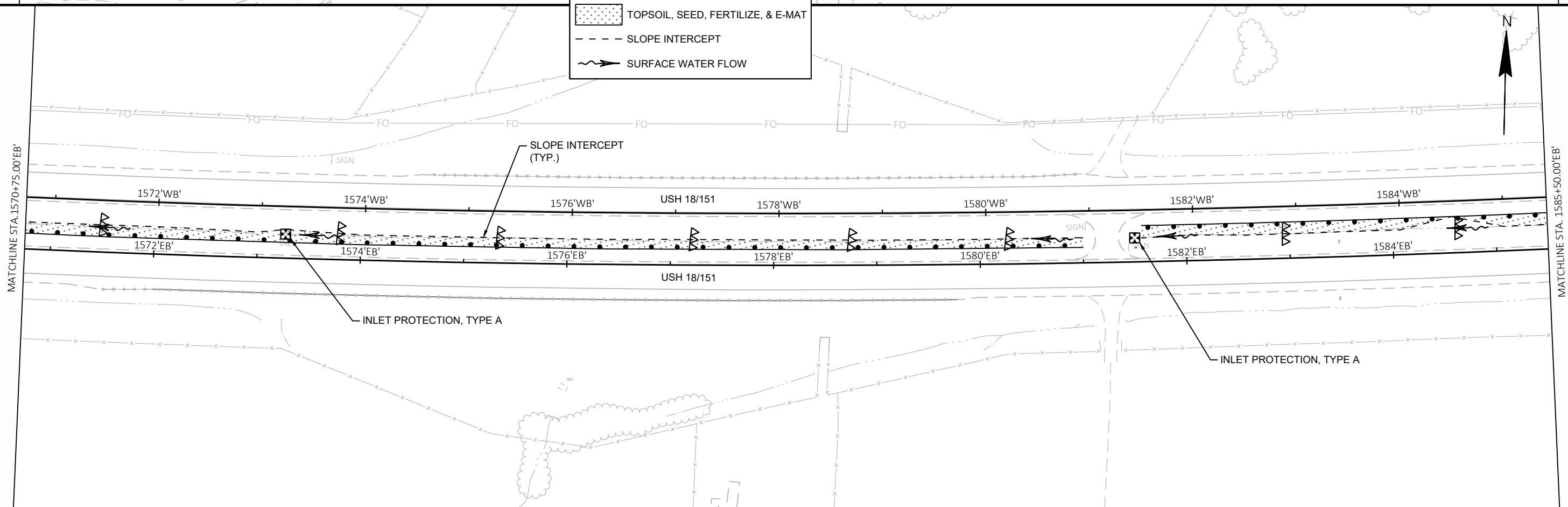
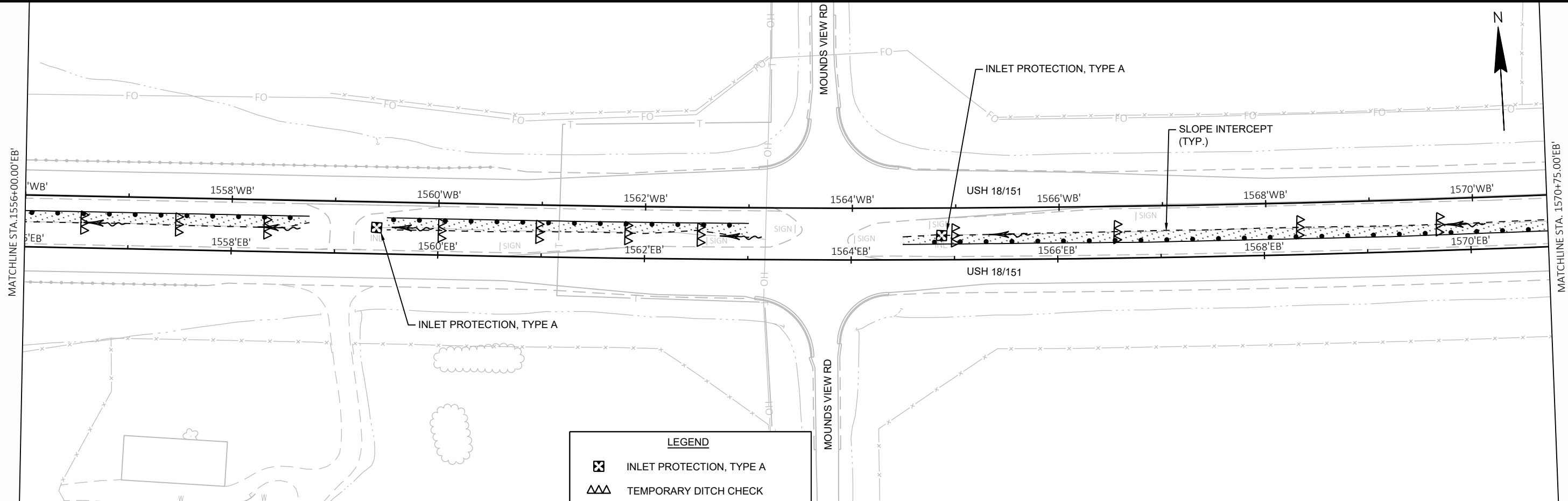


LEGEND

-  INLET PROTECTION, TYPE A
-  TEMPORARY DITCH CHECK
-  TOPSOIL, SEED, FERTILIZE, & E-MAT
-  SLOPE INTERCEPT
-  SURFACE WATER FLOW

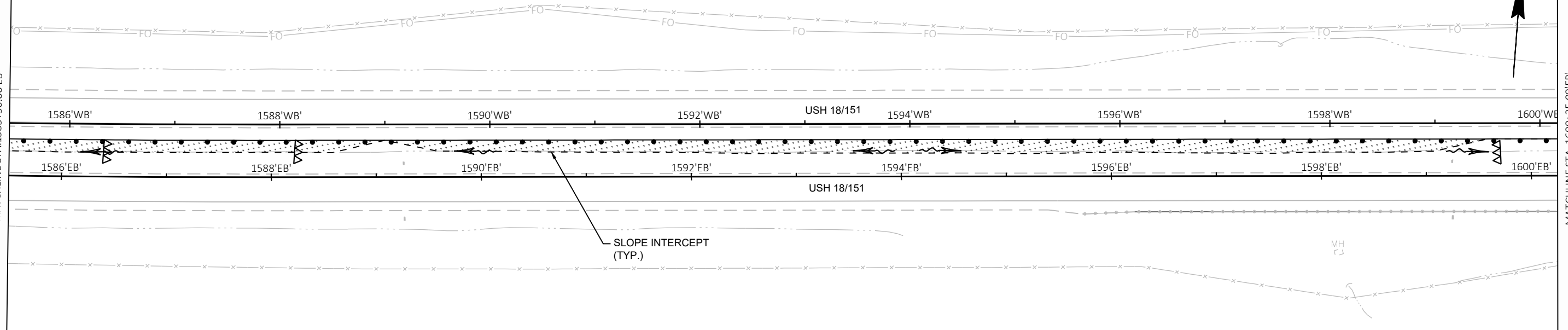


PROJECT NO: 1204-05-76	HWY: USH 18	COUNTY: IOWA & DANE	EROSION CONTROL - IOWA COUNTY	SHEET	E
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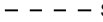



MATCHLINE STA. 1585+50.00'EB'

MATCHLINE STA. 1600+25.00'EB'

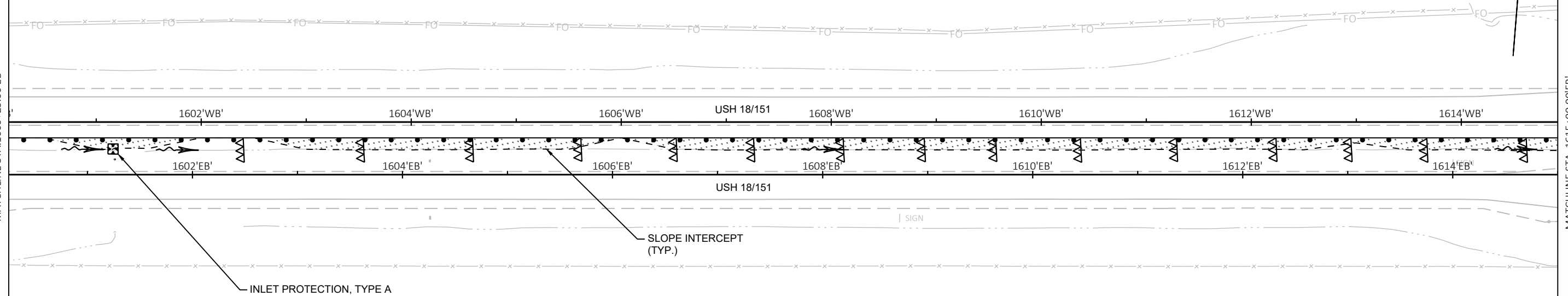


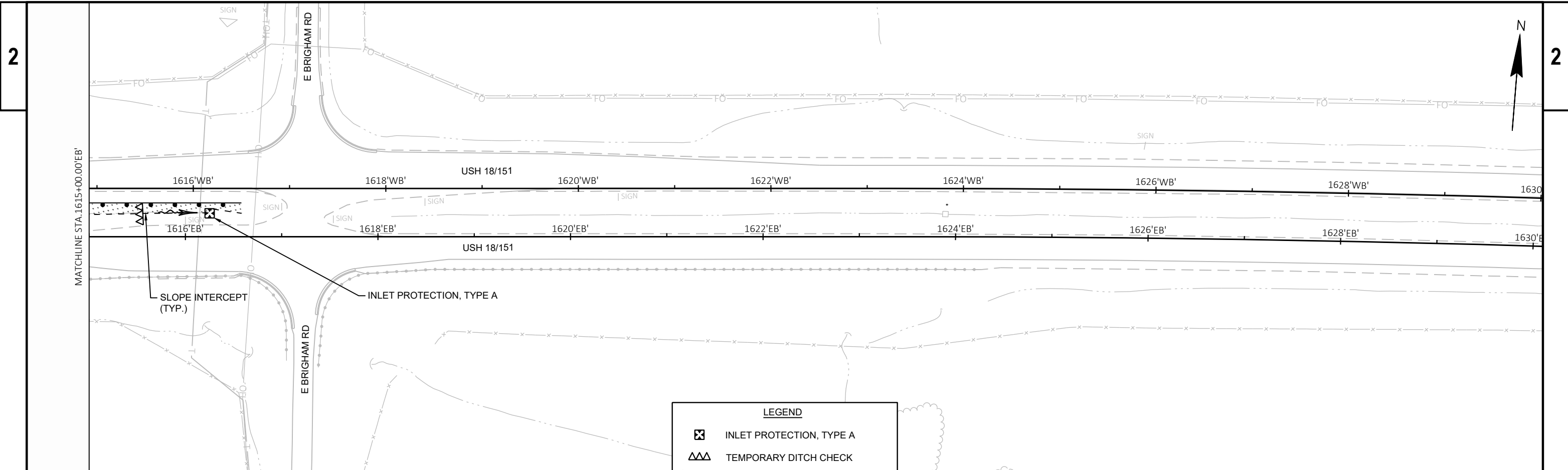
LEGEND

-  INLET PROTECTION, TYPE A
-  TEMPORARY DITCH CHECK
-  TOPSOIL, SEED, FERTILIZE, & E-MAT
-  SLOPE INTERCEPT
-  SURFACE WATER FLOW

MATCHLINE STA. 1600+25.00'EB'

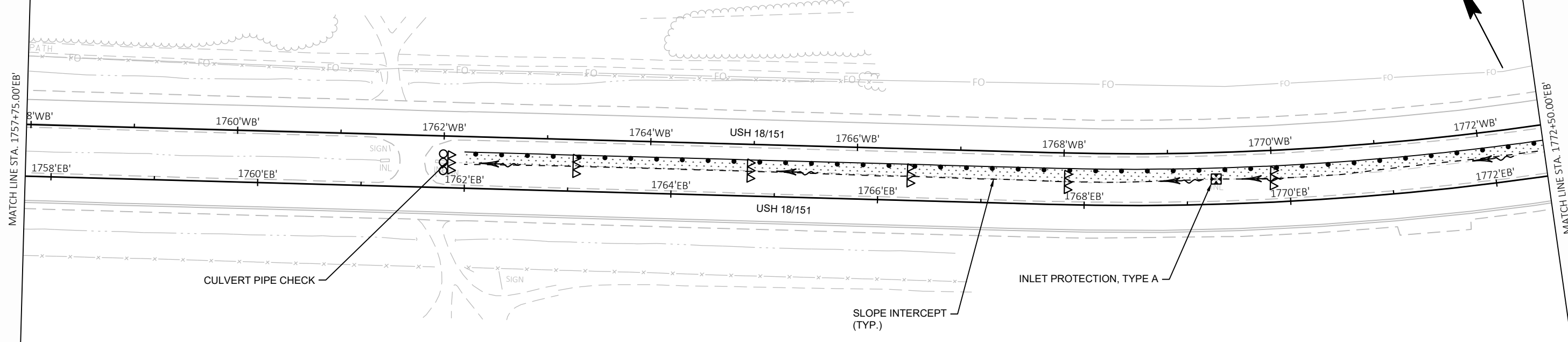
MATCHLINE STA. 1615+00.00'EB'





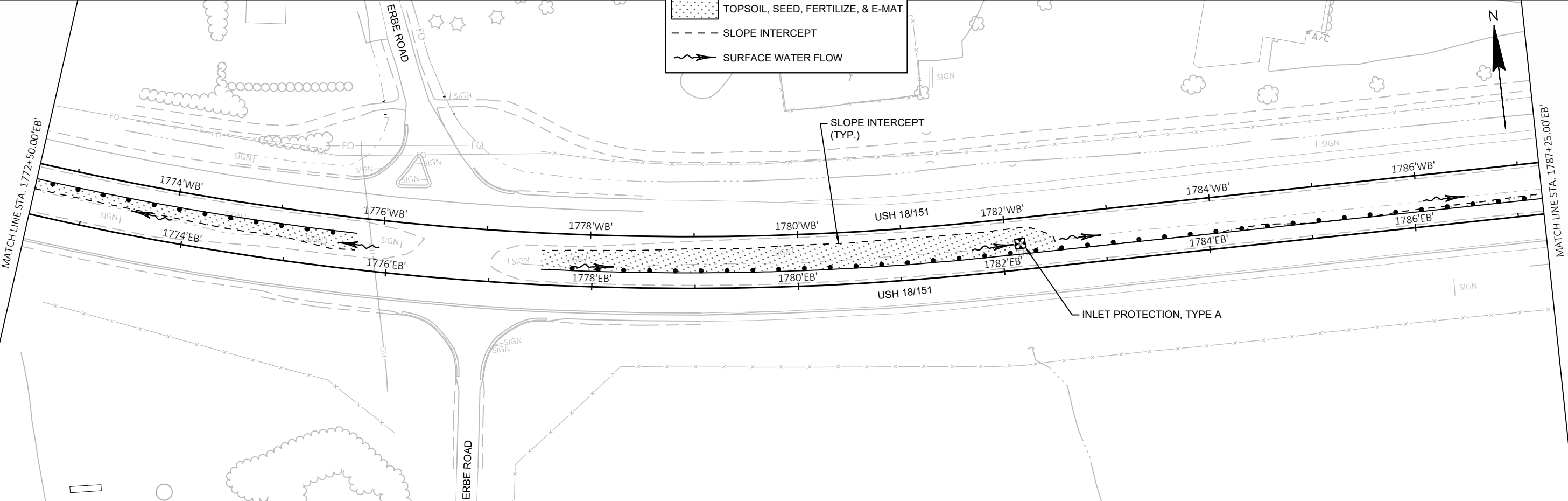
LEGEND

- INLET PROTECTION, TYPE A
- TEMPORARY DITCH CHECK
- TOPSOIL, SEED, FERTILIZE, & E-MAT
- SLOPE INTERCEPT
- SURFACE WATER FLOW

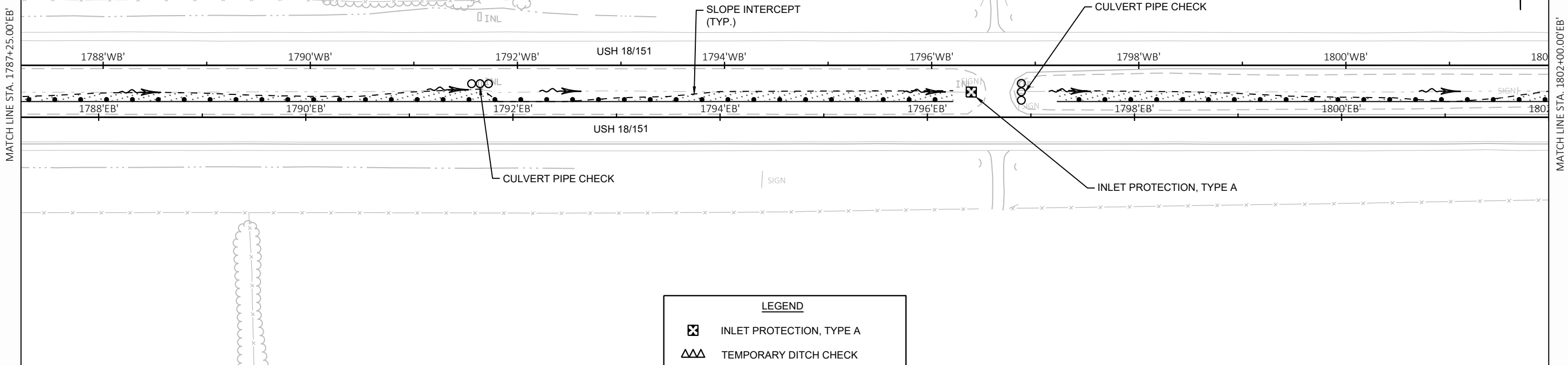


LEGEND

- INLET PROTECTION, TYPE A
- TEMPORARY DITCH CHECK
- TOPSOIL, SEED, FERTILIZE, & E-MAT
- SLOPE INTERCEPT
- SURFACE WATER FLOW

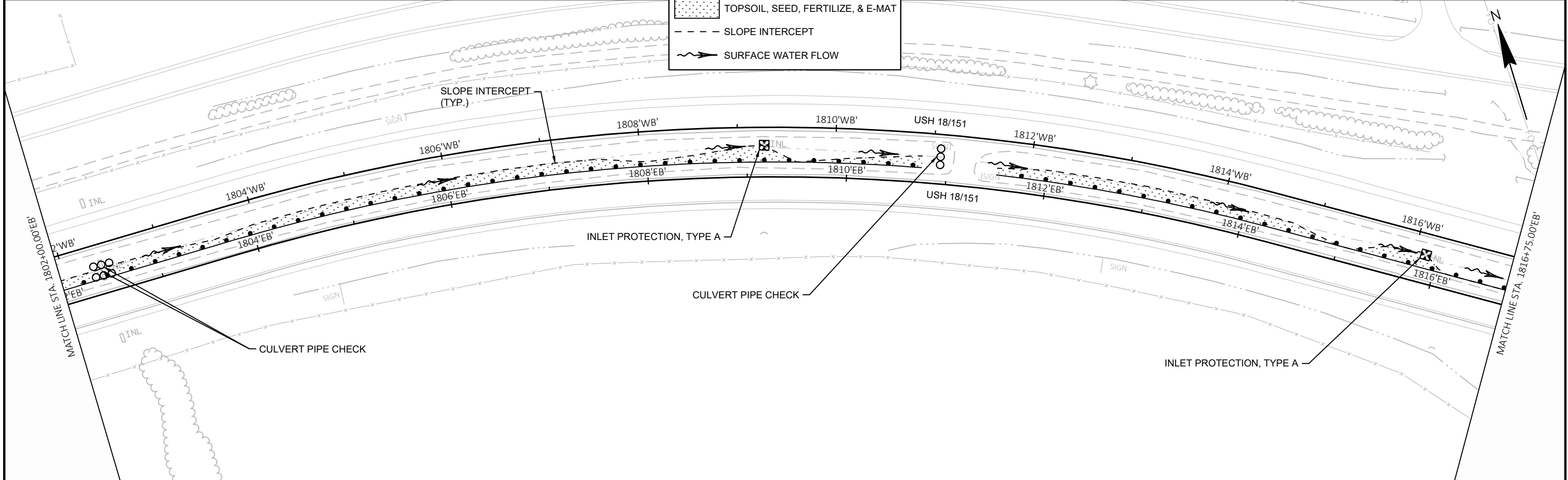


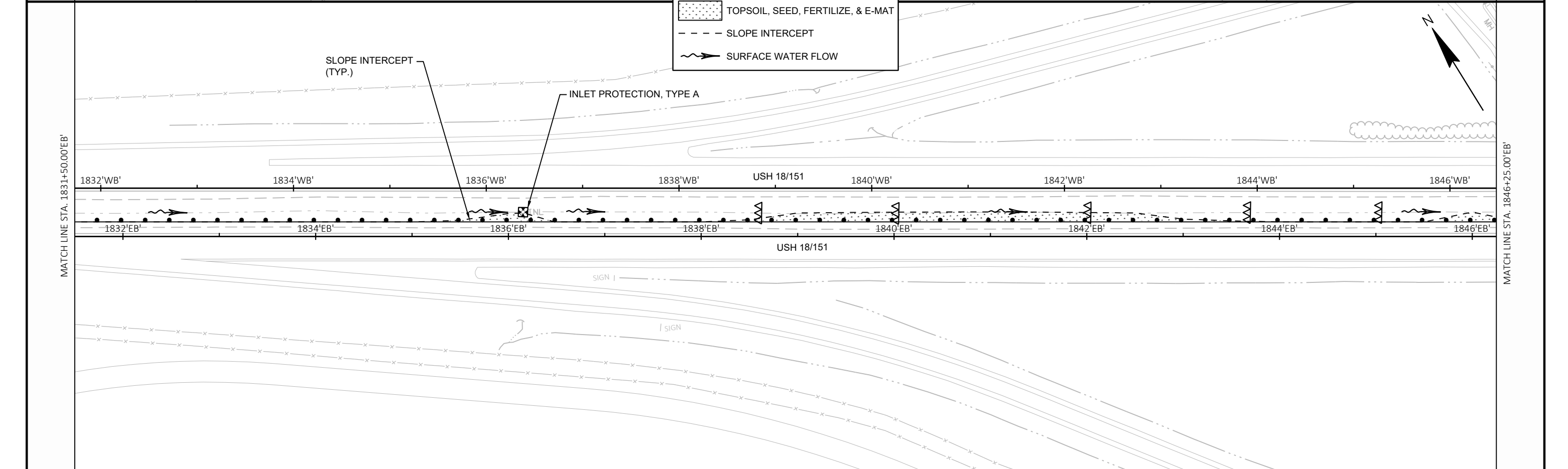
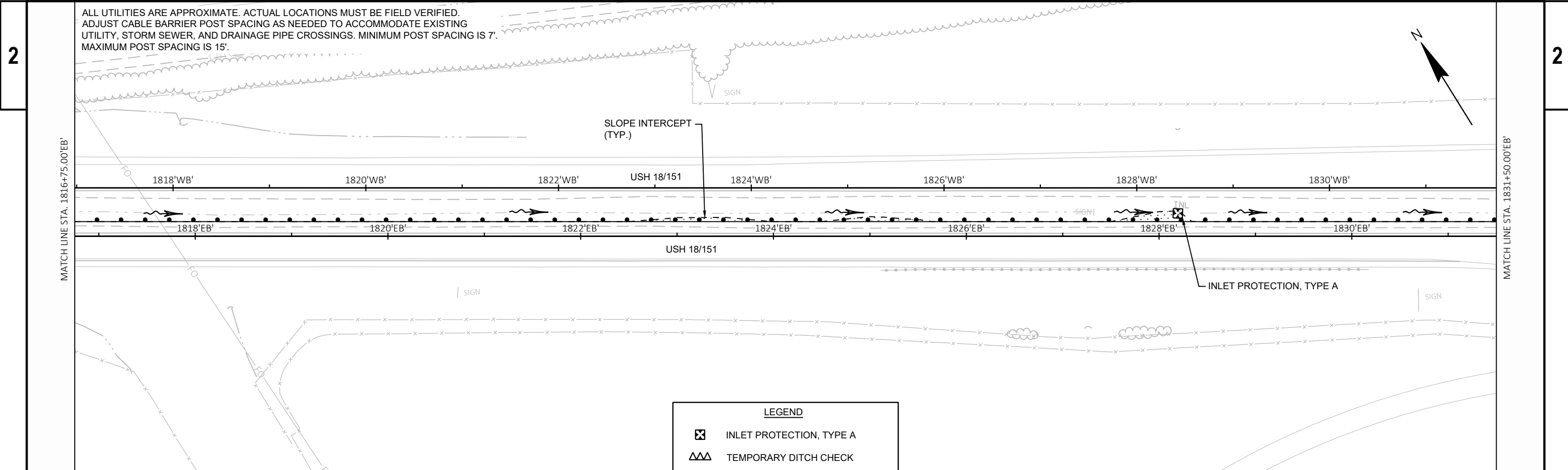
ALL UTILITIES ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.
ADJUST CABLE BARRIER POST SPACING AS NEEDED TO ACCOMMODATE EXISTING
UTILITY, STORM SEWER, AND DRAINAGE PIPE CROSSINGS. MINIMUM POST SPACING IS 7'.
MAXIMUM POST SPACING IS 15'.



LEGEND

- INLET PROTECTION, TYPE A
- TEMPORARY DITCH CHECK
- TOPSOIL, SEED, FERTILIZE, & E-MAT
- SLOPE INTERCEPT
- SURFACE WATER FLOW

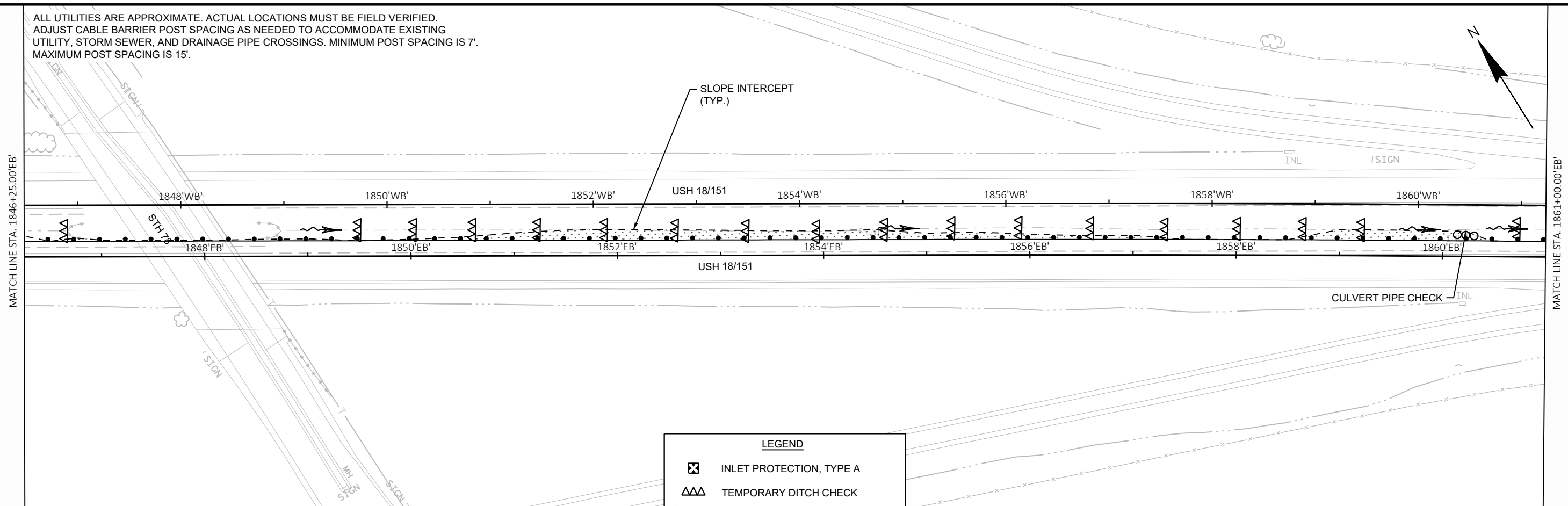




ALL UTILITIES ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.
 ADJUST CABLE BARRIER POST SPACING AS NEEDED TO ACCOMMODATE EXISTING
 UTILITY, STORM SEWER, AND DRAINAGE PIPE CROSSINGS. MINIMUM POST SPACING IS 7'.
 MAXIMUM POST SPACING IS 15'.

MATCH LINE STA. 1846+25.00'EB'

MATCH LINE STA. 1861+00.00'EB'

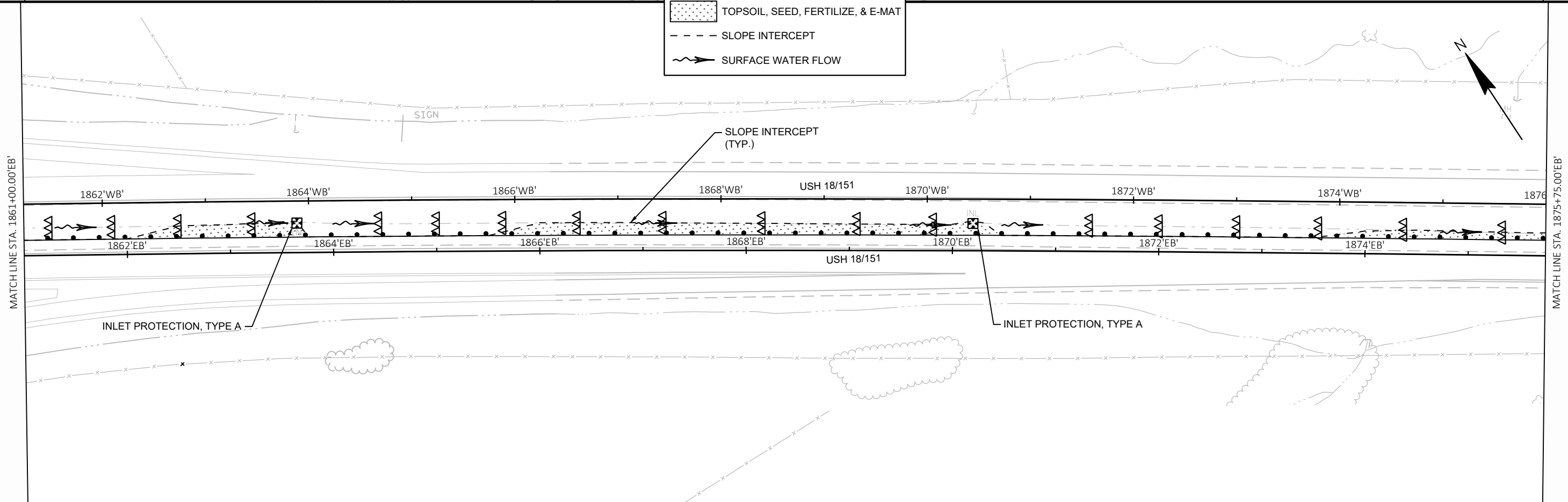


LEGEND

- INLET PROTECTION, TYPE A
- TEMPORARY DITCH CHECK
- TOPSOIL, SEED, FERTILIZE, & E-MAT
- SLOPE INTERCEPT
- SURFACE WATER FLOW

MATCH LINE STA. 1861+00.00'EB'

MATCH LINE STA. 1875+75.00'EB'

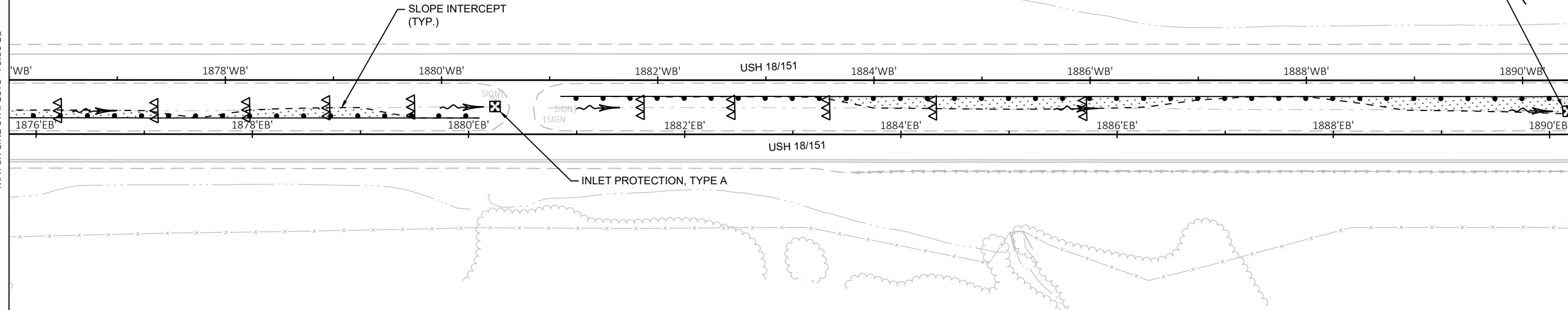


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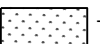




MATCH LINE STA. 1875+75.00'EB'

MATCH LINE STA. 1890+50.00'EB'

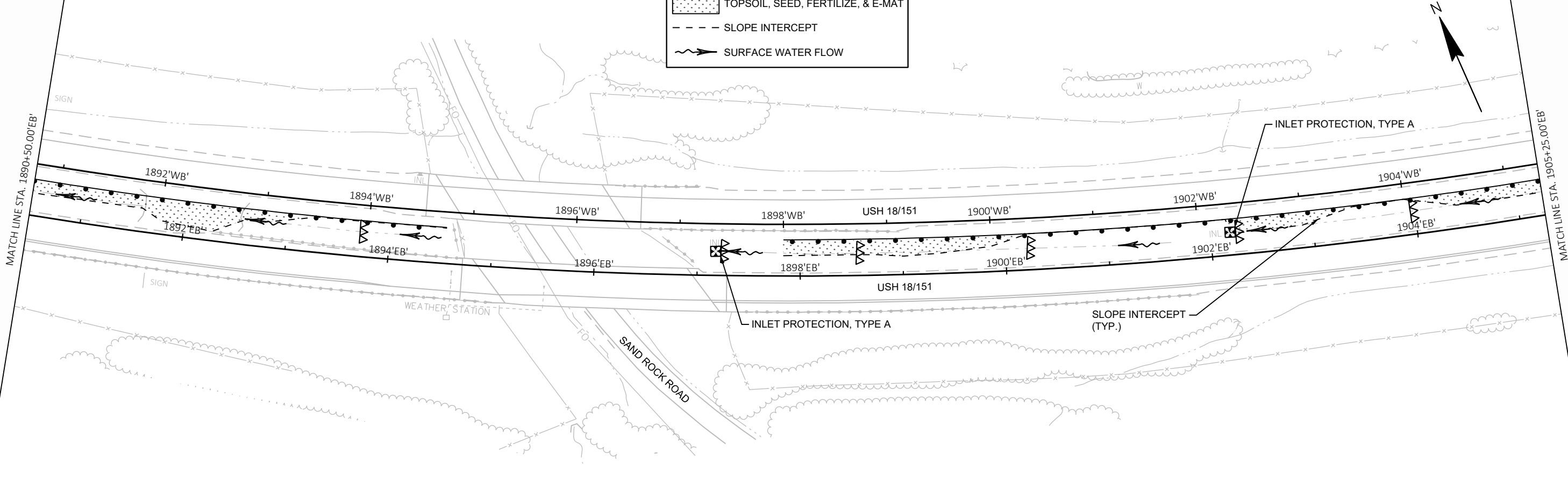


LEGEND

-  INLET PROTECTION, TYPE A
-  TEMPORARY DITCH CHECK
-  TOPSOIL, SEED, FERTILIZE, & E-MAT
-  SLOPE INTERCEPT
-  SURFACE WATER FLOW

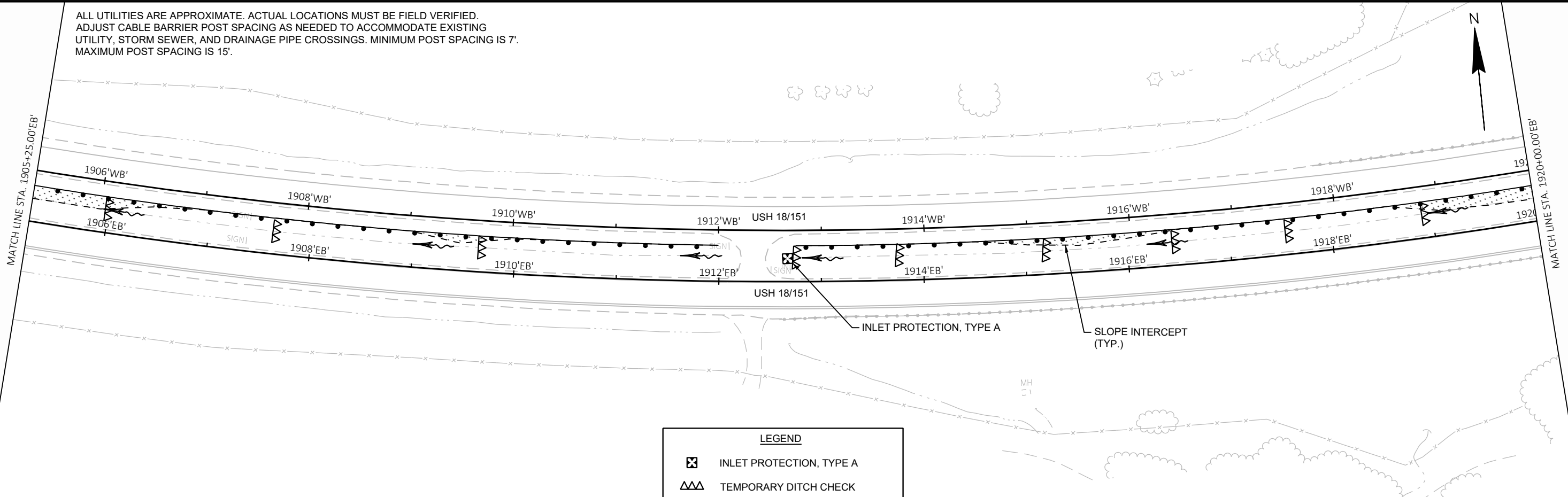
MATCH LINE STA. 1890+50.00'EB'

MATCH LINE STA. 1905+25.00'EB'



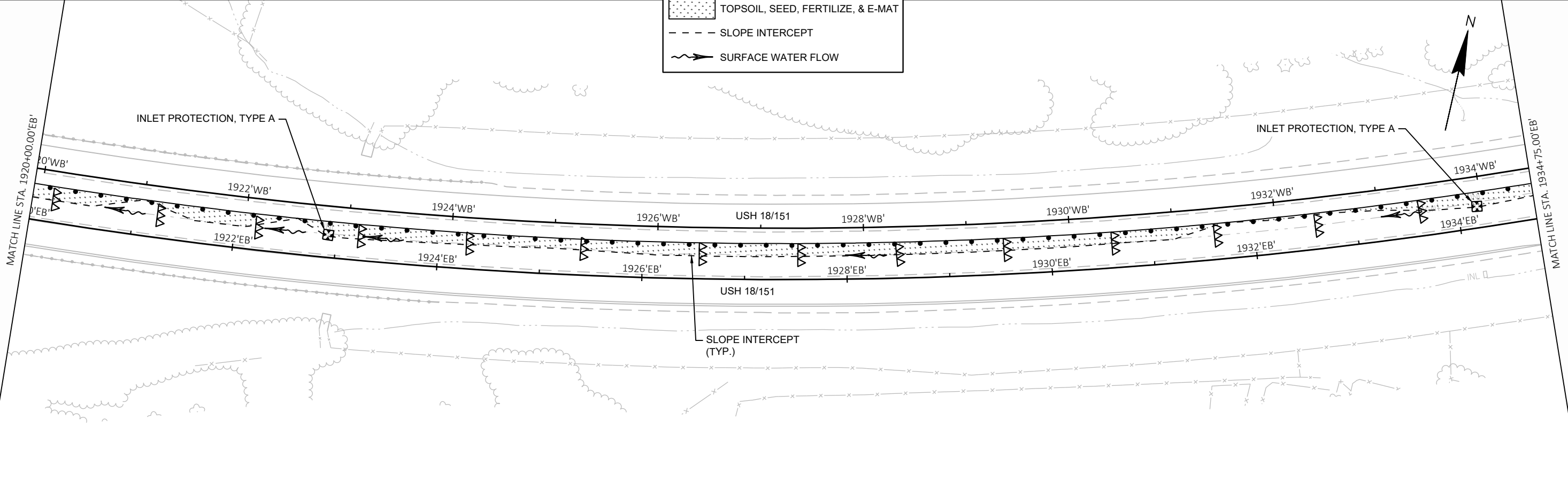
PROJECT NO: 1204-05-76	HWY: USH 18	COUNTY: IOWA & DANE	EROSION CONTROL - DANE COUNTY	SHEET	E
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ALL UTILITIES ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.
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MAXIMUM POST SPACING IS 15'.

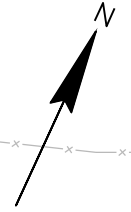


LEGEND

- INLET PROTECTION, TYPE A
- TEMPORARY DITCH CHECK
- TOPSOIL, SEED, FERTILIZE, & E-MAT
- SLOPE INTERCEPT
- SURFACE WATER FLOW

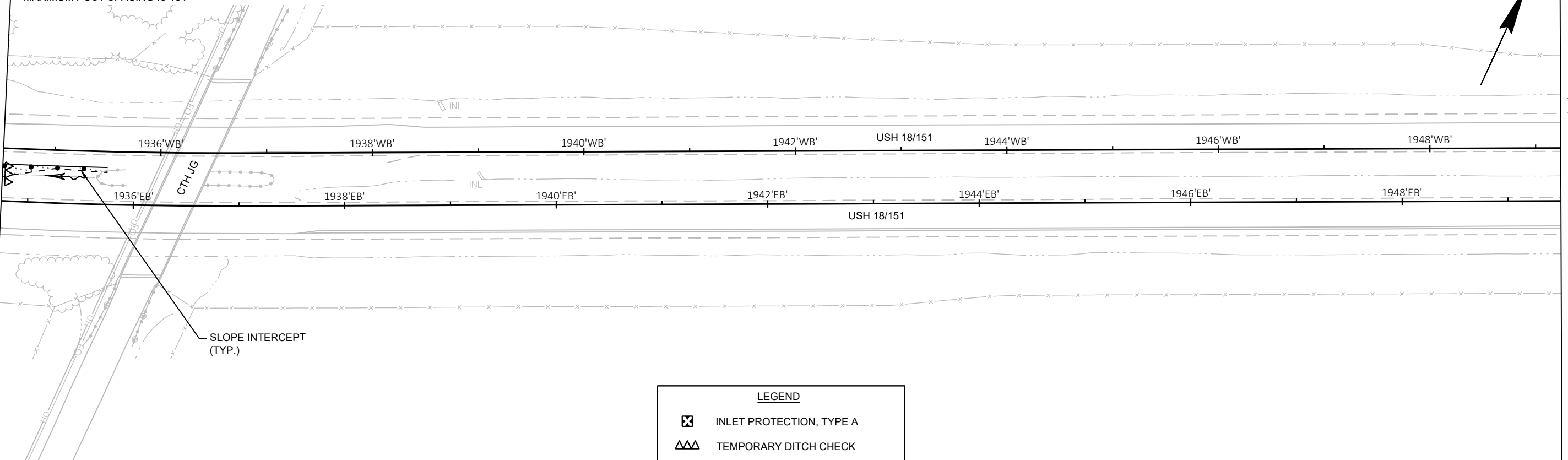


ALL UTILITIES ARE APPROXIMATE. ACTUAL LOCATIONS MUST BE FIELD VERIFIED.
 ADJUST CABLE BARRIER POST SPACING AS NEEDED TO ACCOMMODATE EXISTING
 UTILITY, STORM SEWER, AND DRAINAGE PIPE CROSSINGS. MINIMUM POST SPACING IS 7'.
 MAXIMUM POST SPACING IS 15'.



MATCH LINE STA. 1934+75.00'EB'

MATCH LINE STA. 1949+50.00'EB'



LEGEND

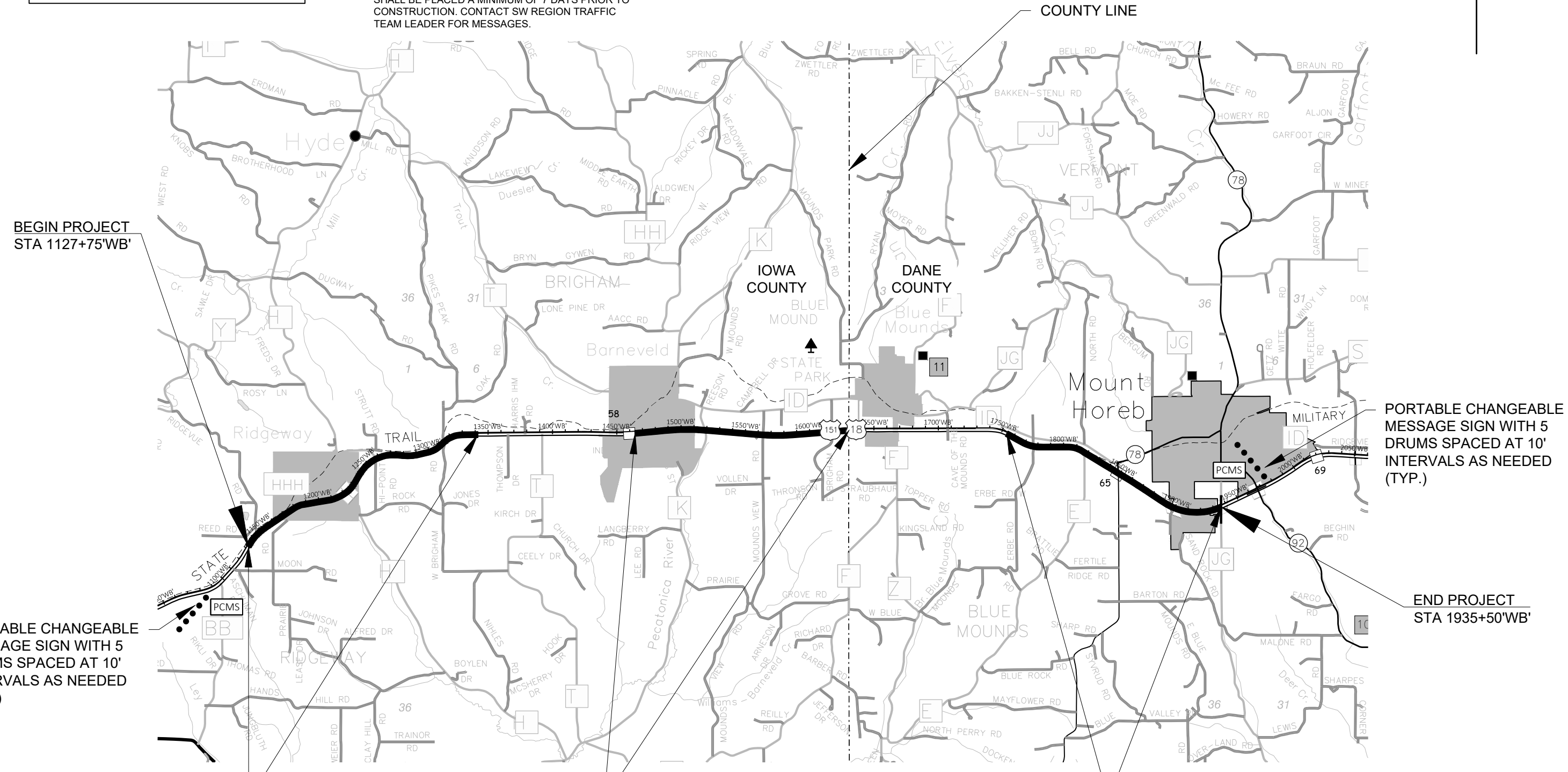
- INLET PROTECTION, TYPE A
- TEMPORARY DITCH CHECK
- TOPSOIL, SEED, FERTILIZE, & E-MAT
- SLOPE INTERCEPT
- SURFACE WATER FLOW

LEGEND

- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- TRAFFIC CONTROL DRUM

GENERAL NOTES

1. THE EXACT LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
2. PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE PLACED A MINIMUM OF 7 DAYS PRIOR TO CONSTRUCTION. CONTACT SW REGION TRAFFIC TEAM LEADER FOR MESSAGES.
3. PCMS MESSAGES SHALL READ:
 PHASE 1: ROAD WORK BEGINS
 PHASE 2: (DATE)



BEGIN PROJECT
STA 1127+75'WB'

PORTABLE CHANGEABLE
MESSAGE SIGN WITH 5
DRUMS SPACED AT 10'
INTERVALS AS NEEDED
(TYP.)

PORTABLE CHANGEABLE
MESSAGE SIGN WITH 5
DRUMS SPACED AT 10'
INTERVALS AS NEEDED
(TYP.)

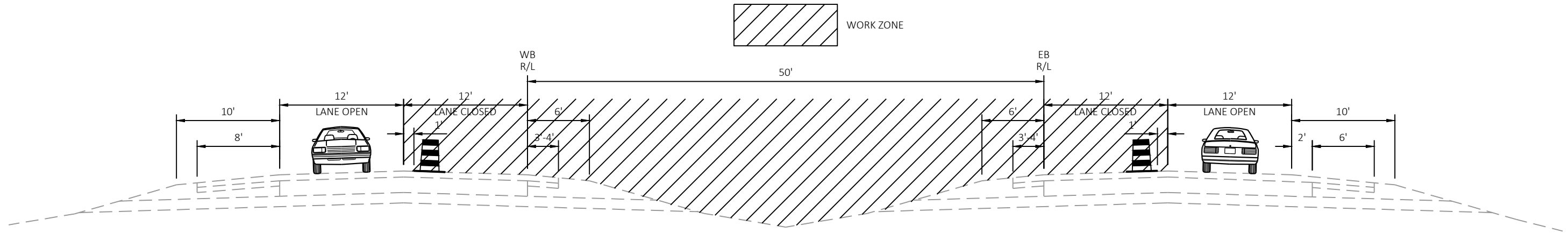
END PROJECT
STA 1935+50'WB'

CABLE BARRIER INSTALLATION
AND MEDIAN GRADING FROM
STA. 1127+75'WB' TO STA.
1339+00'WB'.

CABLE BARRIER INSTALLATION
AND MEDIAN GRADING FROM
STA. 1499+50'WB' TO STA.
1616+50'WB'.

CABLE BARRIER INSTALLATION
AND MEDIAN GRADING FROM
STA. 1762+20'WB' TO STA.
1935+50'WB'

PROJECT NO: 1204-05-76	HWY: USH 18	COUNTY: IOWA & DANE	TRAFFIC CONTROL OVERVIEW	SHEET	E
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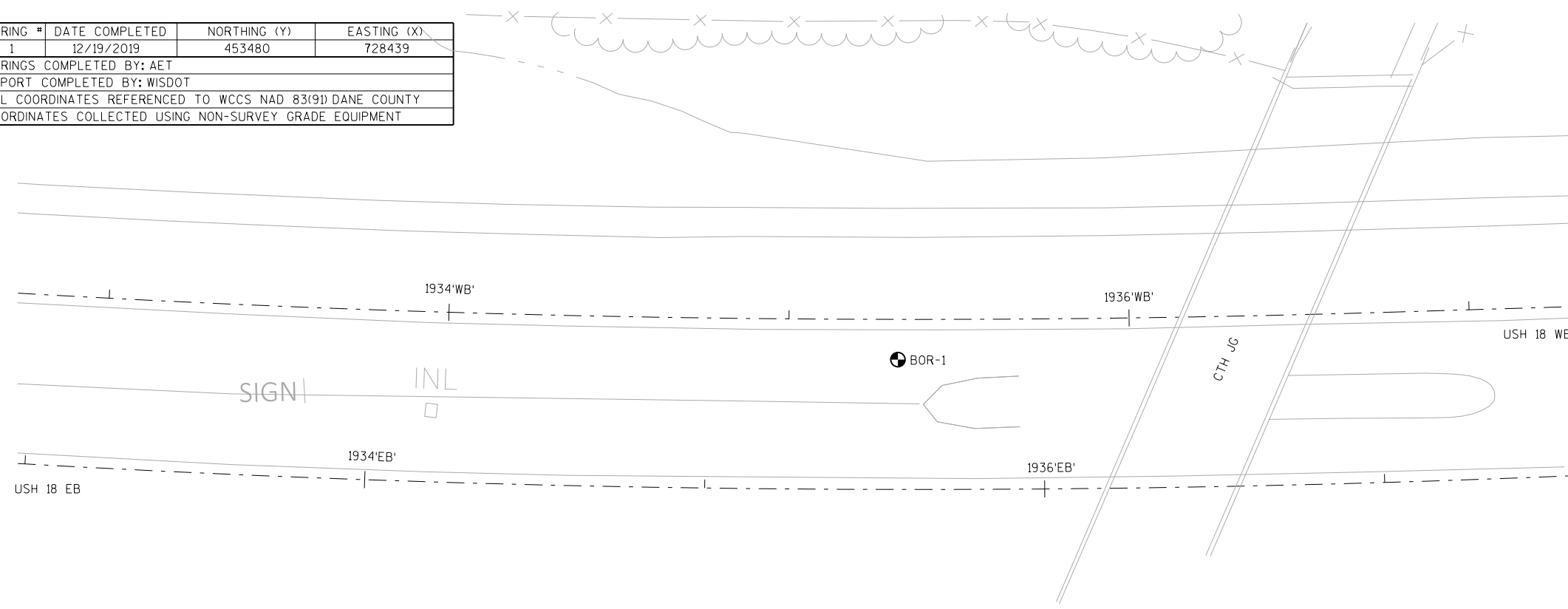


TRAFFIC CONTROL TYPICAL SECTION
 MEDIAN LANES AND SHOULDERS CLOSED
 CABLE BARRIER INSTALLATION AND MEDIAN GRADING

- SEE THE FOLLOWING FOR MORE INFORMATION ON TRAFFIC CONTROL:
- S.D.D. CHANNELIZING DEVICES, DRUMS, CONES, BARRICADES AND VERTICAL PANELS
 - S.D.D. TRAFFIC CONTROL, LANE CLOSURE
 - S.D.D. TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LEFT LANE CLOSURE
 - S.D.D. TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LEFT LANE CLOSURE
 - S.D.D. TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
 - S.D.D. TEMPORARY TRAFFIC CONTROL, SIGN MOUNTING

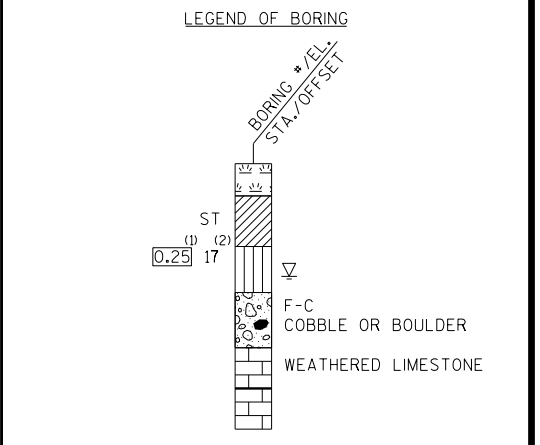
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
1	12/19/2019	453480	728439

BORINGS COMPLETED BY: AET
 REPORT COMPLETED BY: WISDOT
 ALL COORDINATES REFERENCED TO WCCS NAD 83(9) DANE COUNTY
 COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT



MATERIAL SYMBOLS

	ASPHALT		TOPSOIL		PEAT
	CONCRETE		FILL		GRAVEL
	SAND		CLAY		SILT
	BOULDERS OR COBBLES		LIMESTONE		BEDROCK (UNKNOWN)
	SHALE		SANDSTONE		IGNEOUS/META



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)
 (2) UNLESS OTHERWISE SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

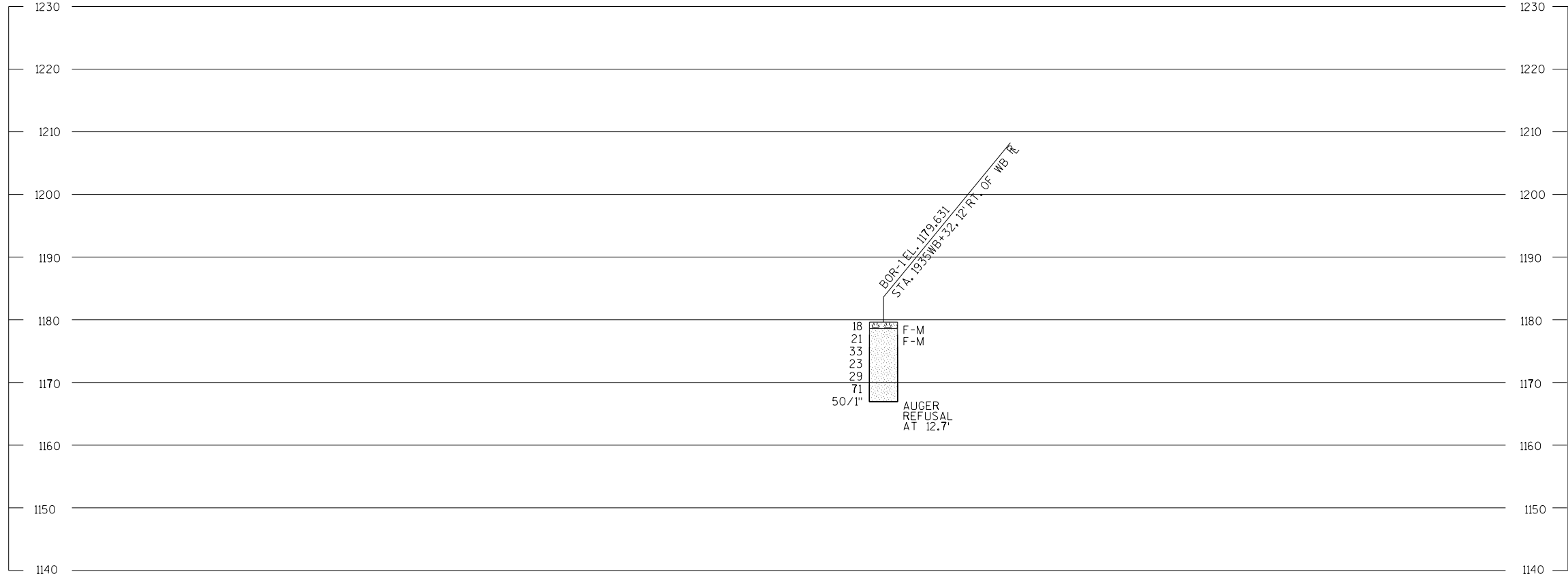
▽ AT TIME OF DRILLING
 ▼ END OF DRILLING
 ▽ AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

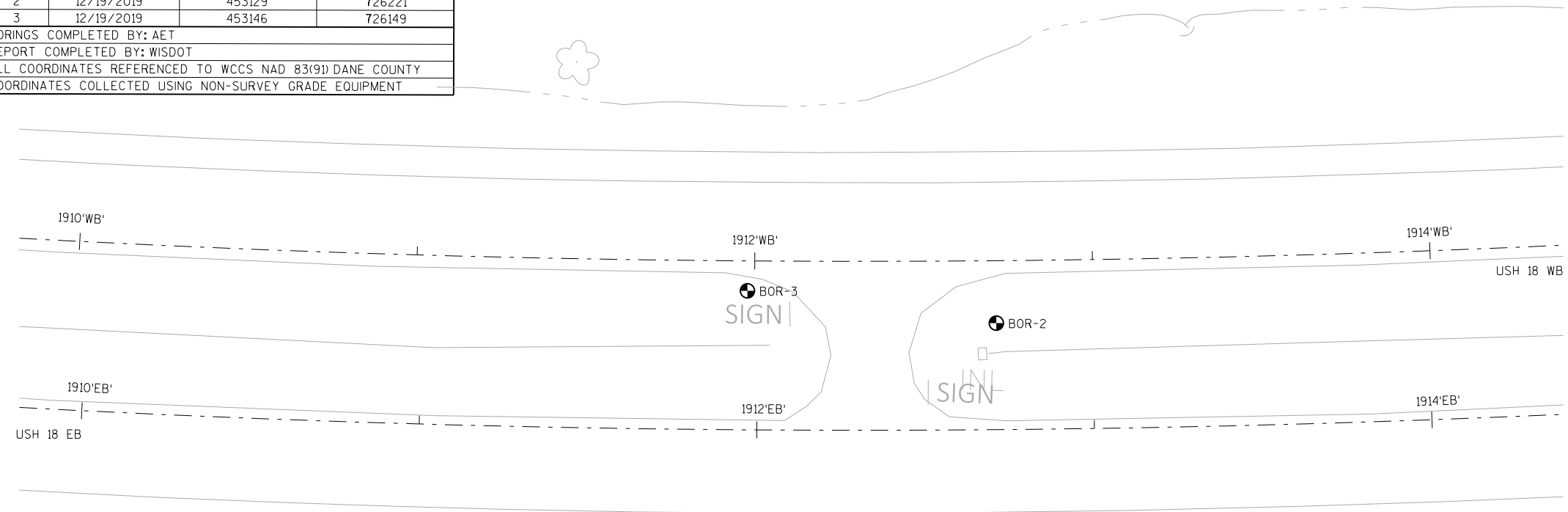
SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.



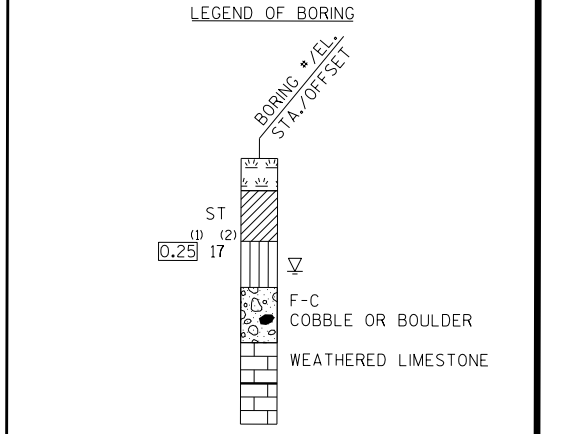
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
2	12/19/2019	453129	726221
3	12/19/2019	453146	726149

BORINGS COMPLETED BY: AET
 REPORT COMPLETED BY: WISDOT
 ALL COORDINATES REFERENCED TO WCCS NAD 83(91) DANE COUNTY
 COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT



MATERIAL SYMBOLS

	ASPHALT		TOPSOIL		PEAT
	CONCRETE		FILL		GRAVEL
	SAND		CLAY		SILT
	BOULDERS OR COBBLES		LIMESTONE		BEDROCK (UNKNOWN)
	SHALE		SANDSTONE		IGNEOUS/META



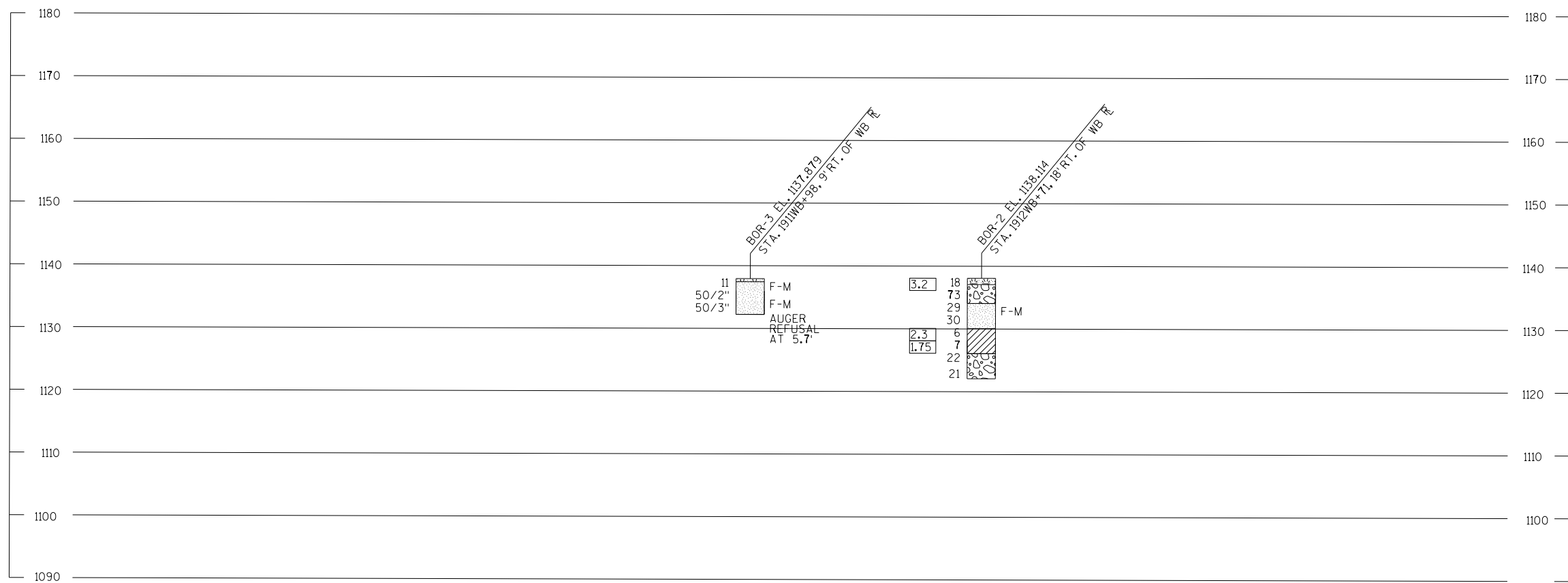
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GROUND WATER ELEVATION
 ▽ AT TIME OF DRILLING
 ▽ END OF DRILLING
 ▽ AFTER DRILLING

ABBREVIATIONS
 F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

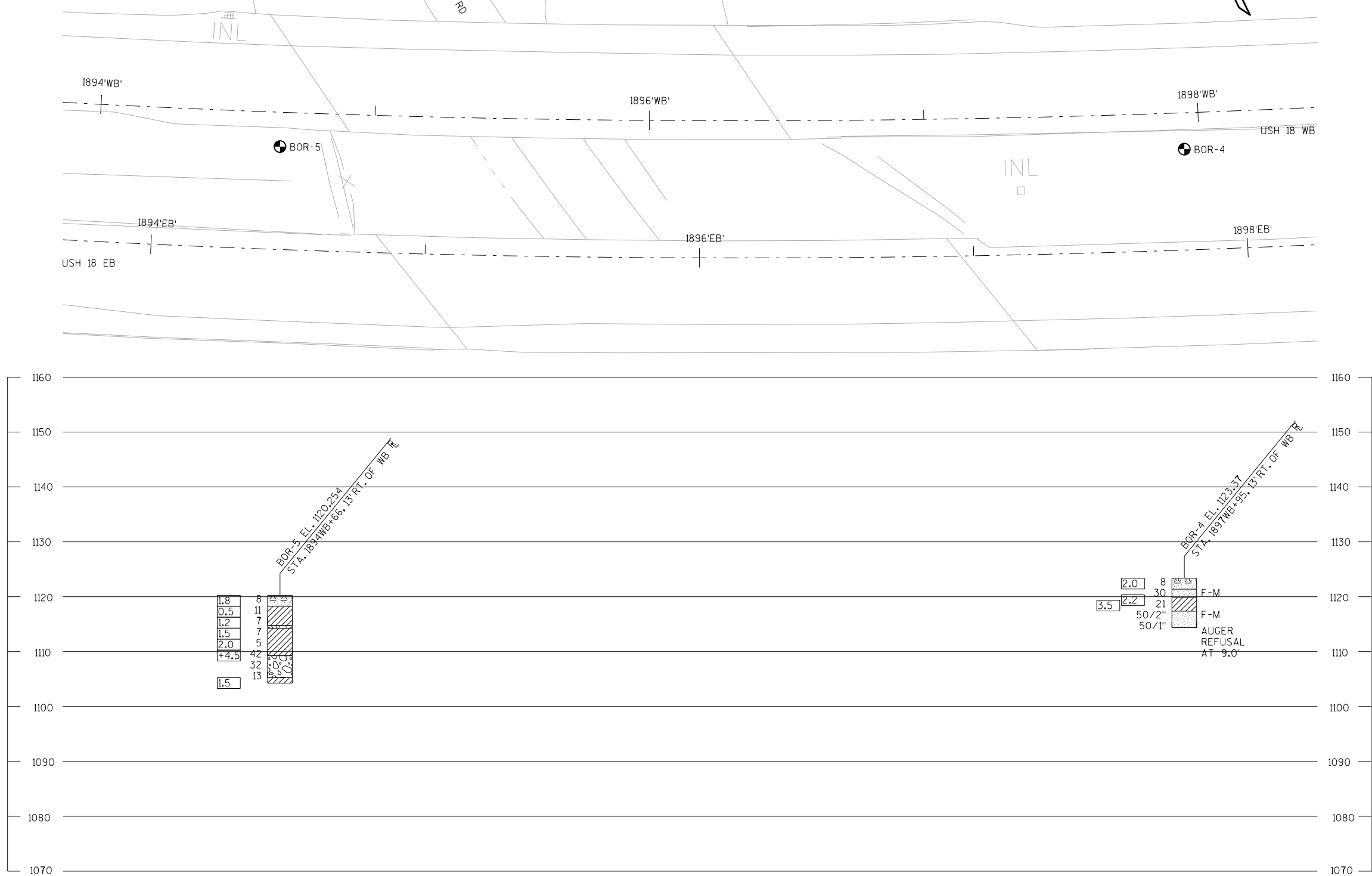
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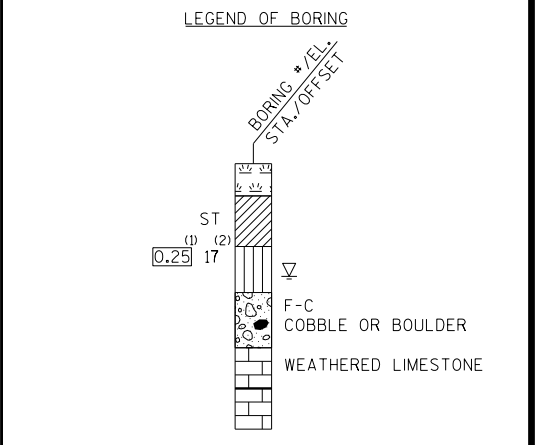
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
4	12/19/2019	453510	724796
5	12/18/2019	453656	724500

BORINGS COMPLETED BY: AET
 REPORT COMPLETED BY: WISDOT
 ALL COORDINATES REFERENCED TO WCCS NAD 83(91) DANE COUNTY
 COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT



MATERIAL SYMBOLS

	ASPHALT		TOPSOIL		PEAT
	CONCRETE		FILL		GRAVEL
	SAND		CLAY		SILT
	BOULDERS OR COBBLES		LIMESTONE		BEDROCK (UNKNOWN)
	SHALE		SANDSTONE		IGNEOUS/META



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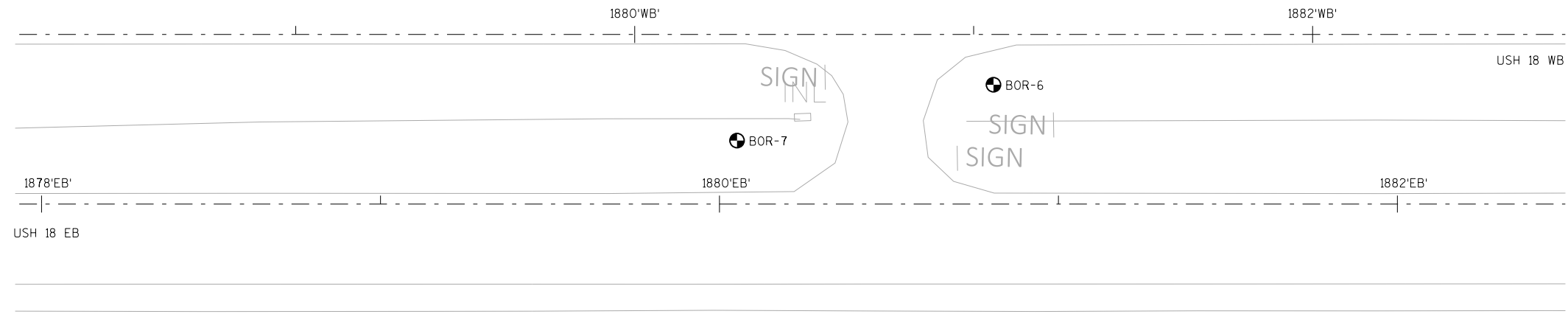
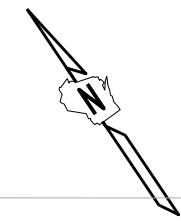
GROUND WATER ELEVATION
 ▽ AT TIME OF DRILLING
 ▼ END OF DRILLING
 ▽ AFTER DRILLING

ABBREVIATIONS
 F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION
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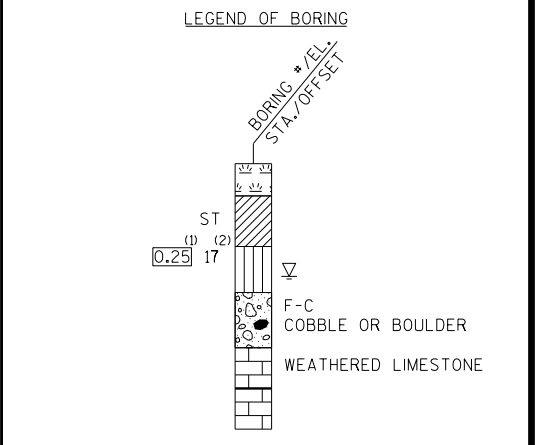
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
6	12/18/2019	454395	723358
7	12/18/2019	454424	723286

BORINGS COMPLETED BY: AET
 REPORT COMPLETED BY: WISDOT
 ALL COORDINATES REFERENCED TO WCCS NAD 83(91) DANE COUNTY
 COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT



MATERIAL SYMBOLS

	ASPHALT		TOPSOIL		PEAT
	CONCRETE		FILL		GRAVEL
	SAND		CLAY		SILT
	BOULDERS OR COBBLES		LIMESTONE		BEDROCK (UNKNOWN)
	SHALE		SANDSTONE		IGNEOUS/META



GROUND WATER ELEVATION

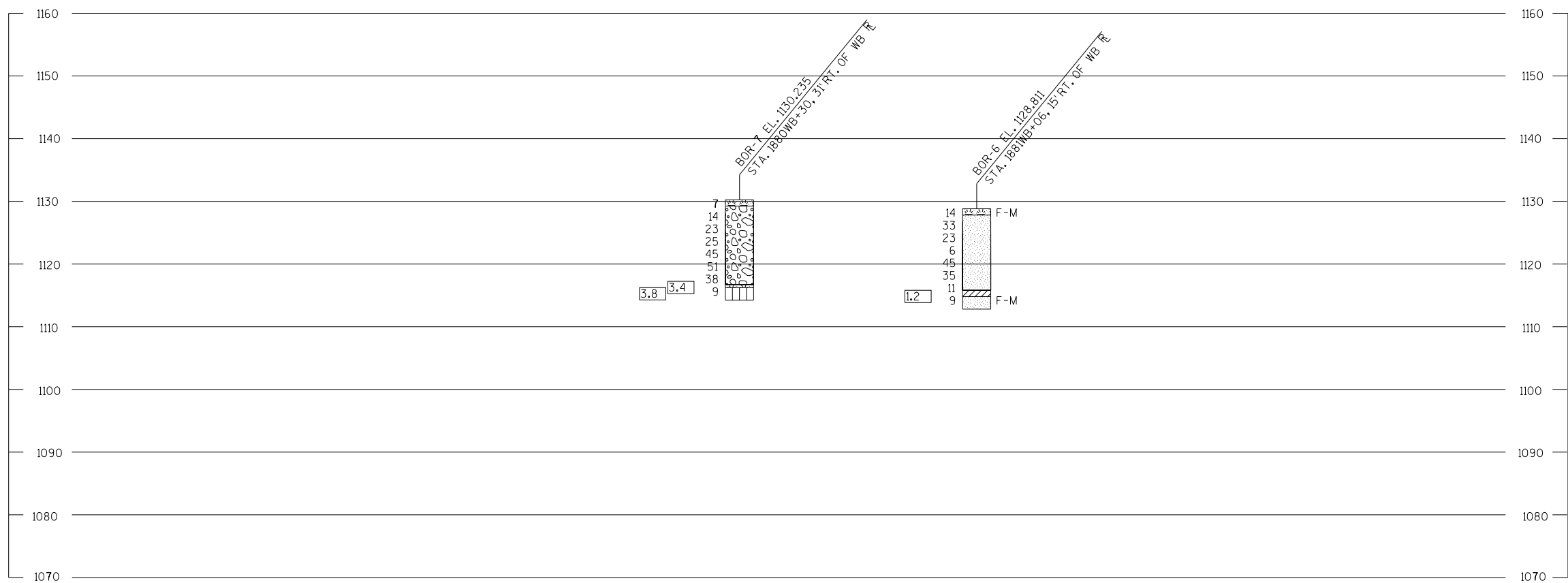
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 ▼ END OF DRILLING
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ABBREVIATIONS

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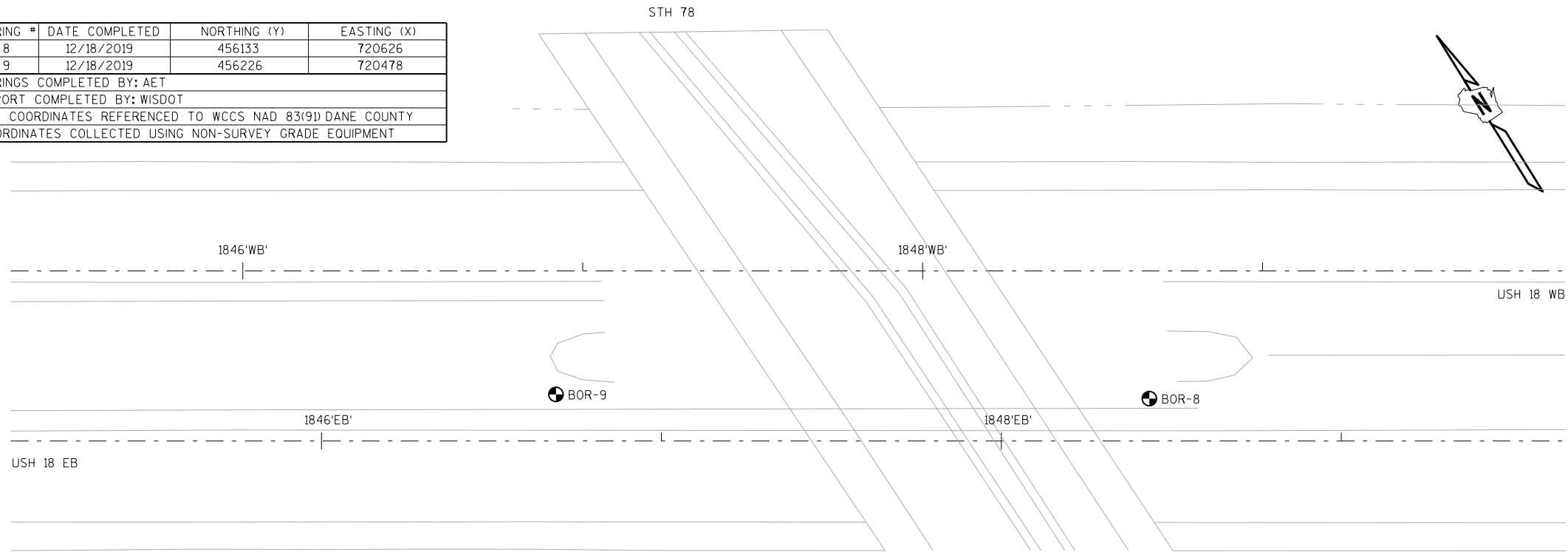
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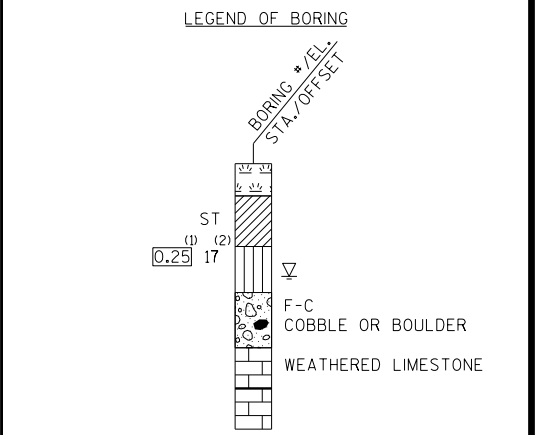
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
8	12/18/2019	456133	720626
9	12/18/2019	456226	720478

BORINGS COMPLETED BY: AET
 REPORT COMPLETED BY: WISDOT
 ALL COORDINATES REFERENCED TO WCCS NAD 83(91) DANE COUNTY
 COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT



MATERIAL SYMBOLS

	ASPHALT		TOPSOIL		PEAT
	CONCRETE		FILL		GRAVEL
	SAND		CLAY		SILT
	BOULDERS OR COBBLES		LIMESTONE		BEDROCK (UNKNOWN)
	SHALE		SANDSTONE		IGNEOUS/META



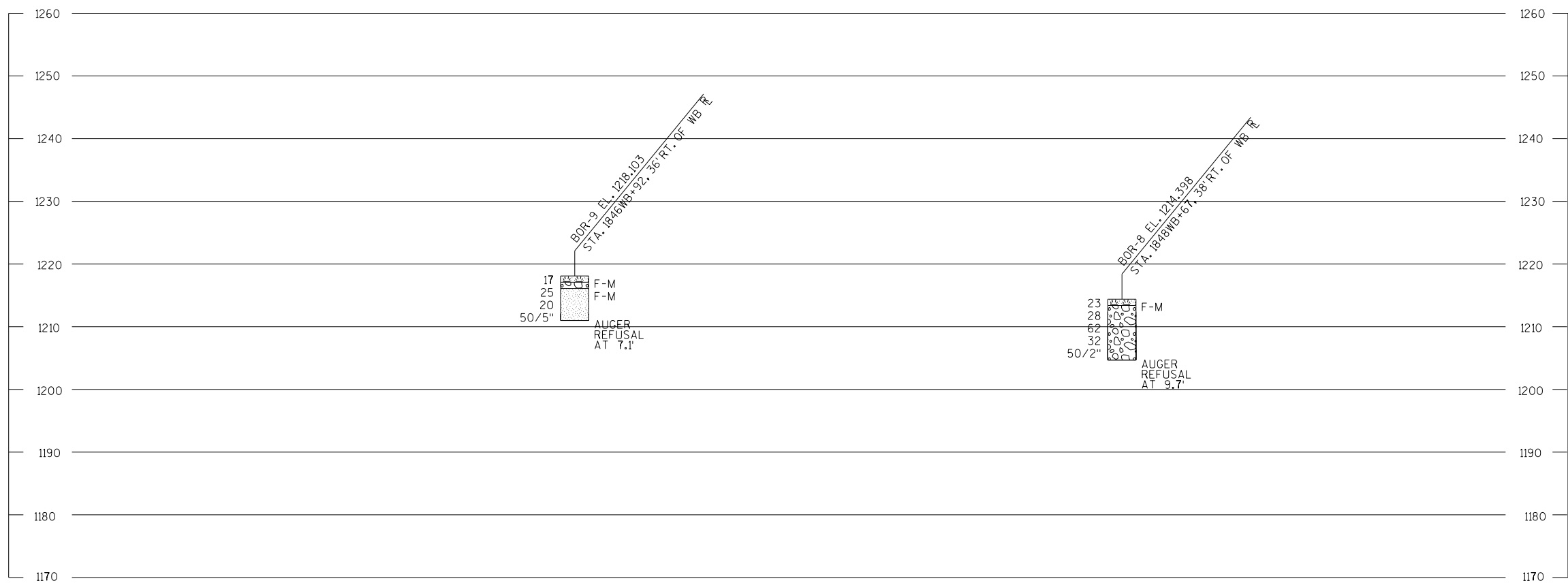
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GROUND WATER ELEVATION
 ▽ AT TIME OF DRILLING
 ▼ END OF DRILLING
 ▽ AFTER DRILLING

ABBREVIATIONS
 F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

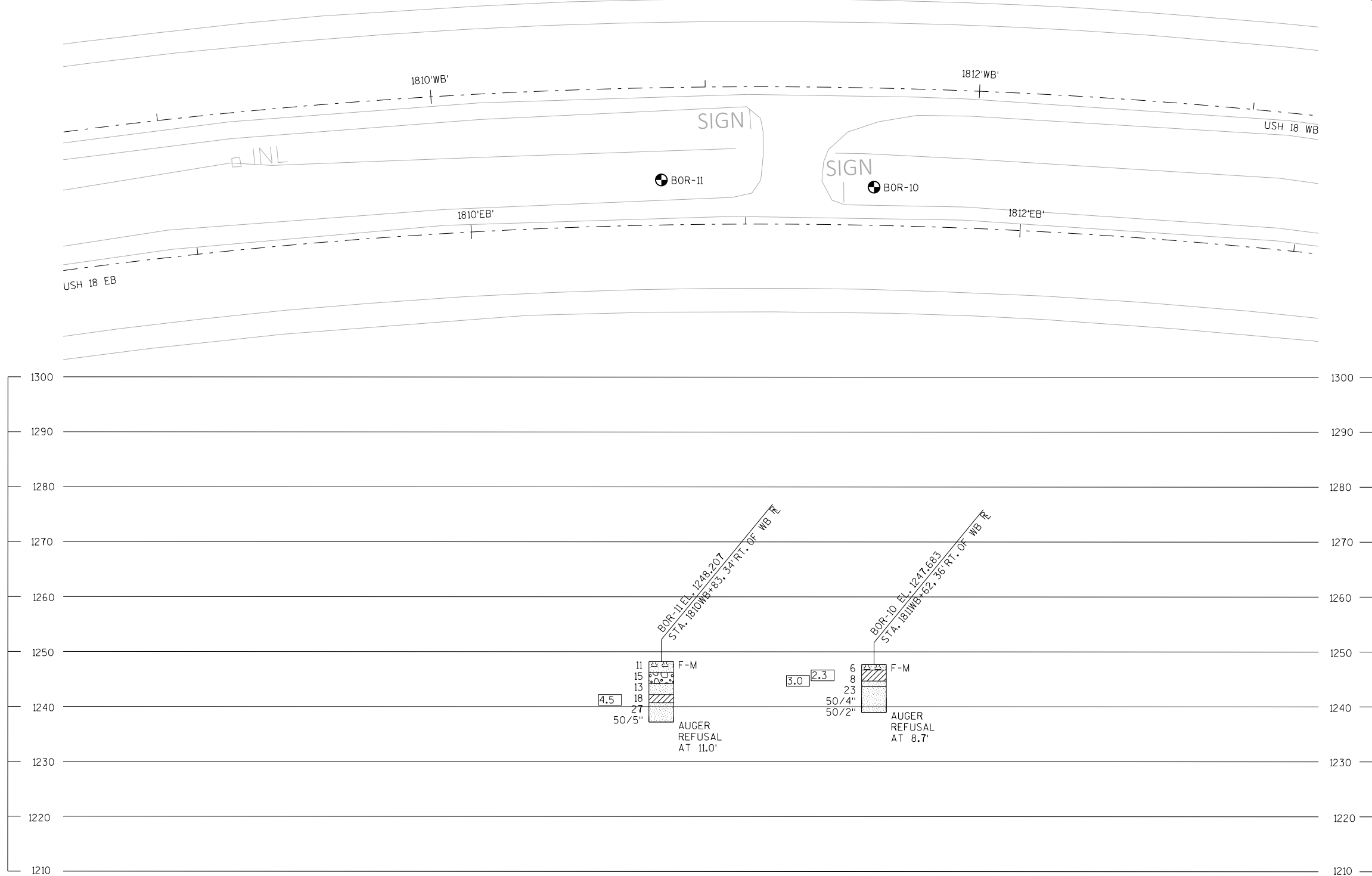
SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.



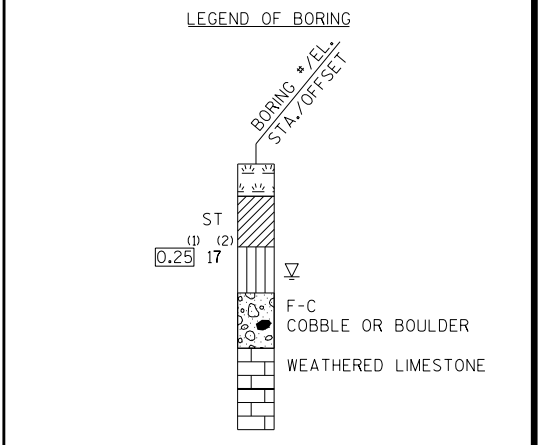
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
10	12/18/2019	458066	717473
11	12/18/2019	458098	717402

BORINGS COMPLETED BY: AET
 REPORT COMPLETED BY: WISDOT
 ALL COORDINATES REFERENCED TO WCCS NAD 83(91) DANE COUNTY
 COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT



MATERIAL SYMBOLS

	ASPHALT		TOPSOIL		PEAT
	CONCRETE		FILL		GRAVEL
	SAND		CLAY		SILT
	BOULDERS OR COBBLES		LIMESTONE		BEDROCK (UNKNOWN)
	SHALE		SANDSTONE		IGNEOUS/META



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)
 (2) UNLESS OTHERWISE SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION
 ▽ AT TIME OF DRILLING
 ▼ END OF DRILLING
 ▽ AFTER DRILLING

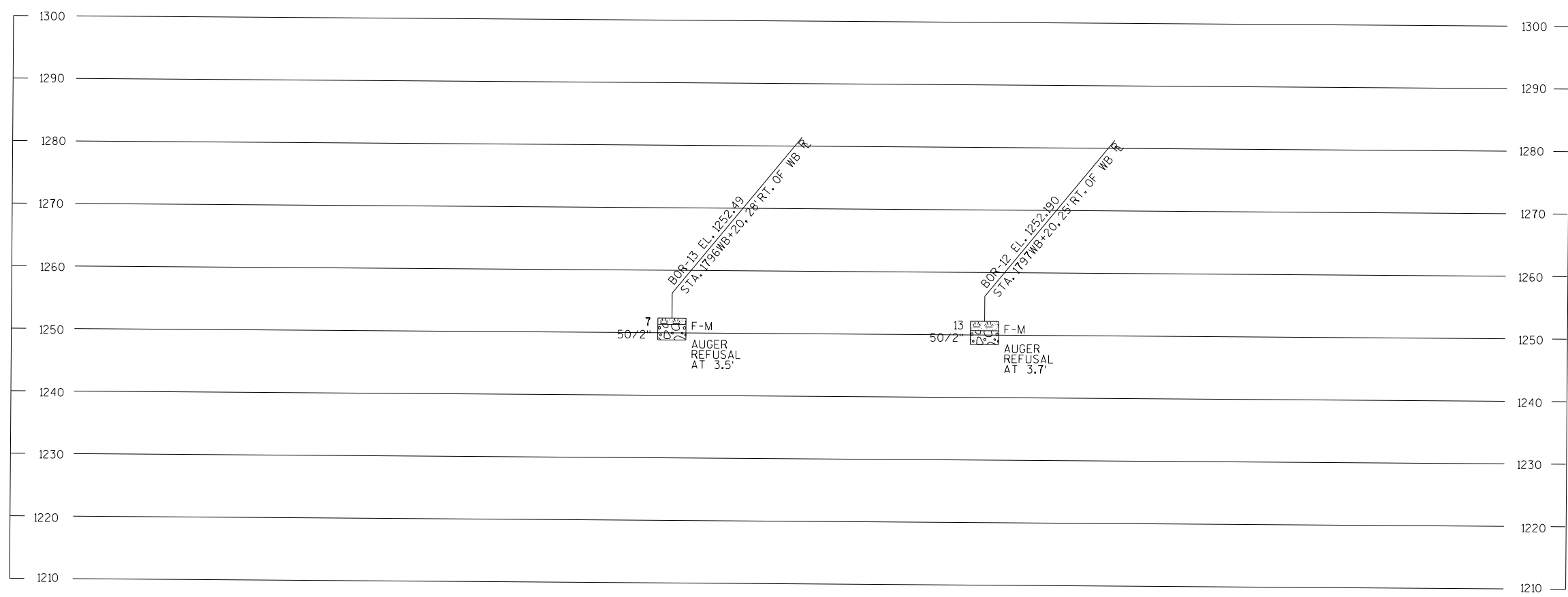
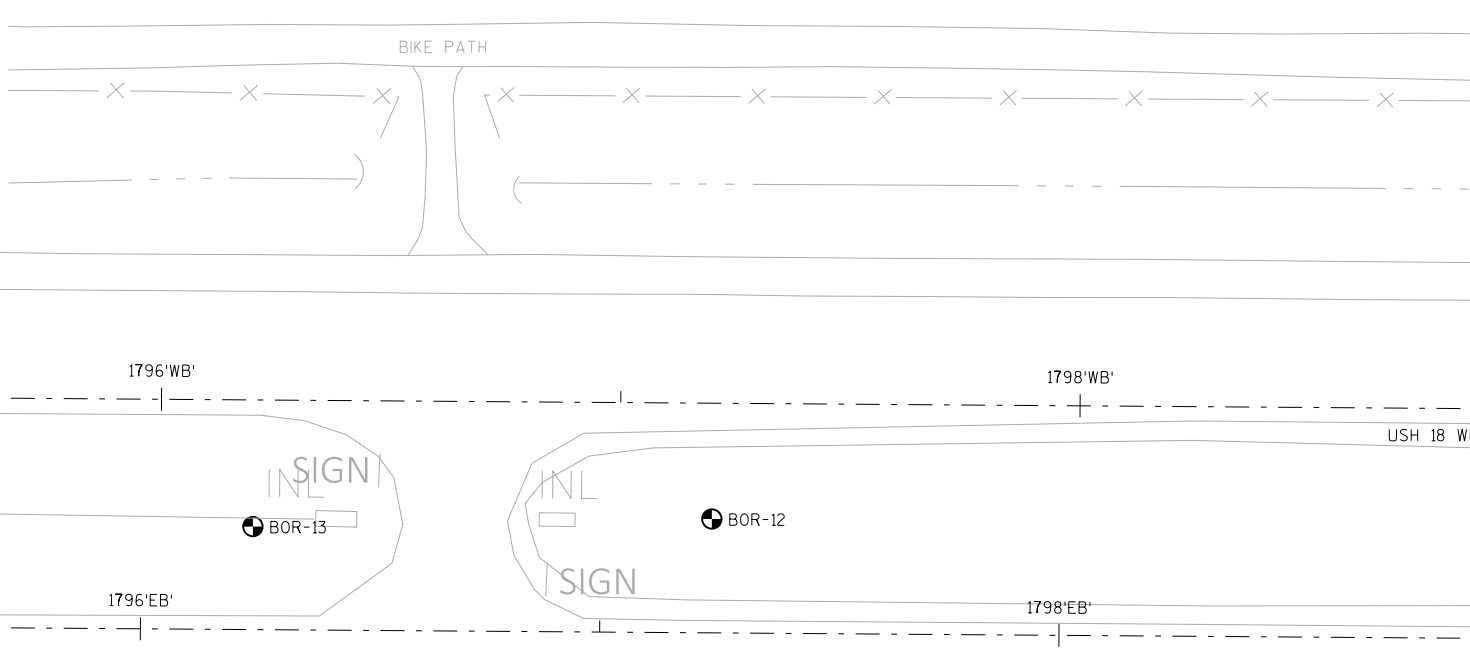
ABBREVIATIONS
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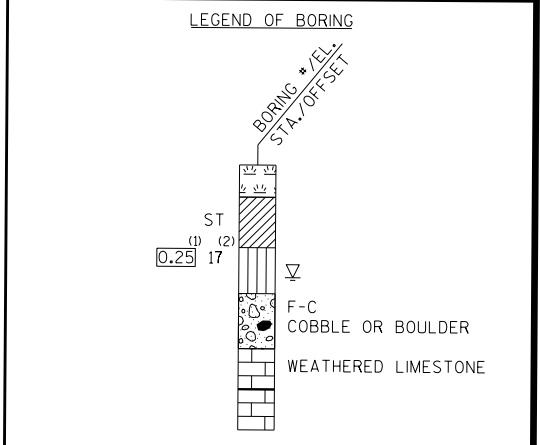
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
12	12/18/2019	458240	716067
13	12/18/2019	458239	715967

BORINGS COMPLETED BY: AET
 REPORT COMPLETED BY: WISDOT
 ALL COORDINATES REFERENCED TO WCCS NAD 83(91) DANE COUNTY
 COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT



MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/META



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GROUND WATER ELEVATION
 ▽ AT TIME OF DRILLING
 ▼ END OF DRILLING
 ▽ AFTER DRILLING

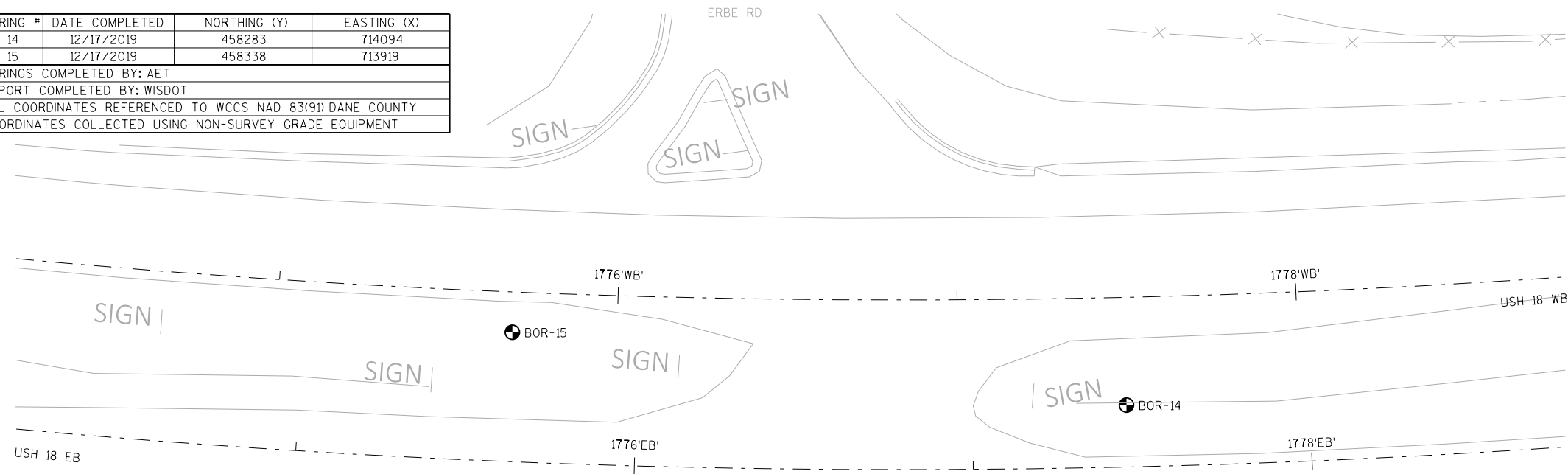
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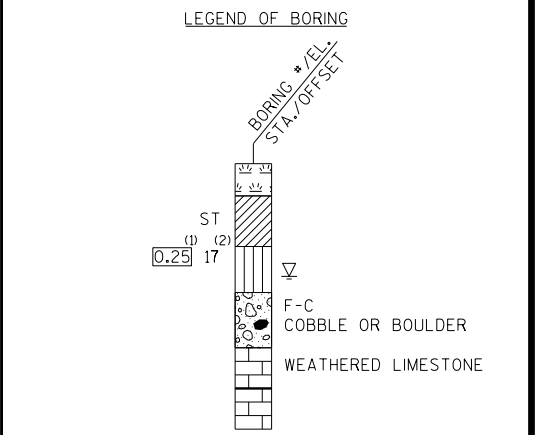
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
14	12/17/2019	458283	714094
15	12/17/2019	458338	713919

BORINGS COMPLETED BY: AET
 REPORT COMPLETED BY: WISDOT
 ALL COORDINATES REFERENCED TO WCCS NAD 83(91) DANE COUNTY
 COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT



MATERIAL SYMBOLS

	ASPHALT		TOPSOIL		PEAT
	CONCRETE		FILL		GRAVEL
	SAND		CLAY		SILT
	BOULDERS OR COBBLES		LIMESTONE		BEDROCK (UNKNOWN)
	SHALE		SANDSTONE		IGNEOUS/META

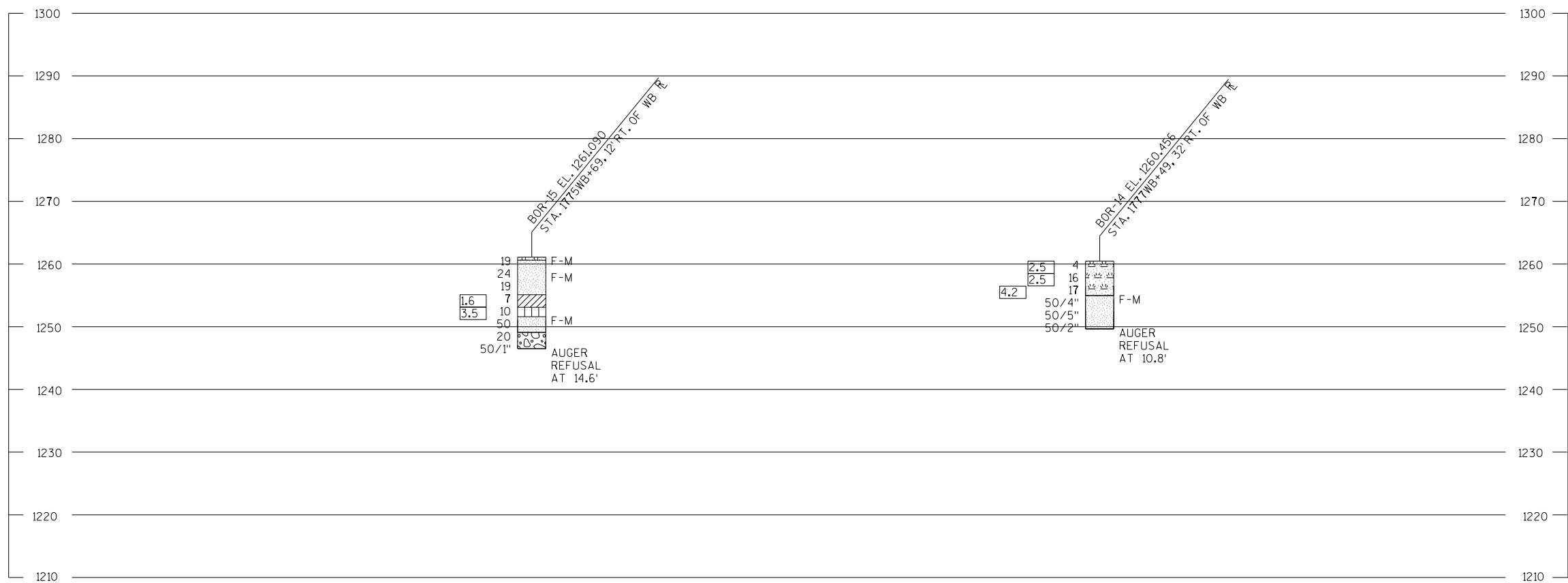


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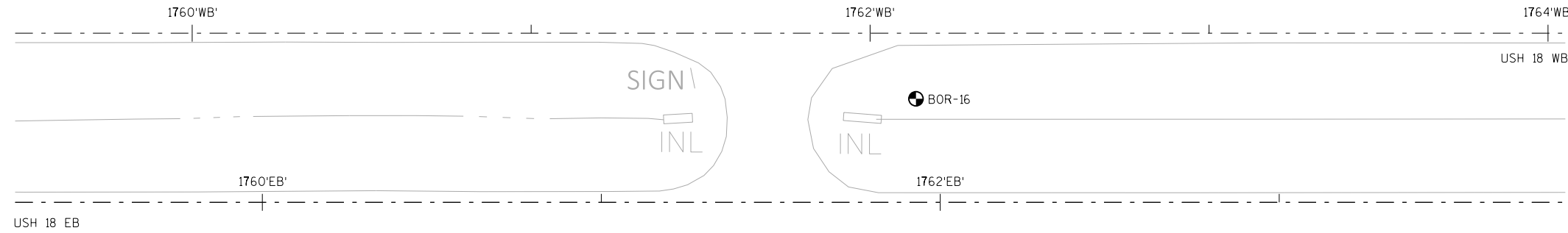
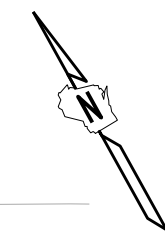
GROUND WATER ELEVATION
 ▽ AT TIME OF DRILLING
 ▼ END OF DRILLING
 ▽ AFTER DRILLING

ABBREVIATIONS
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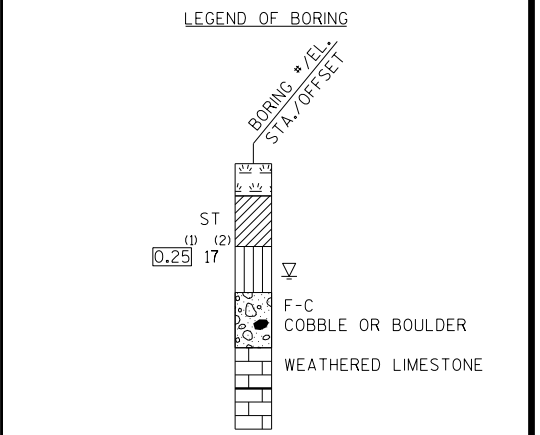


BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
16	12/17/2019	458891	712684
BORINGS COMPLETED BY: AET			
REPORT COMPLETED BY: WISDOT			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) DANE COUNTY			
COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT			



MATERIAL SYMBOLS

	ASPHALT		TOPSOIL		PEAT
	CONCRETE		FILL		GRAVEL
	SAND		CLAY		SILT
	BOULDERS OR COBBLES		LIMESTONE		BEDROCK (UNKNOWN)
	SHALE		SANDSTONE		IGNEOUS/META



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GROUND WATER ELEVATION

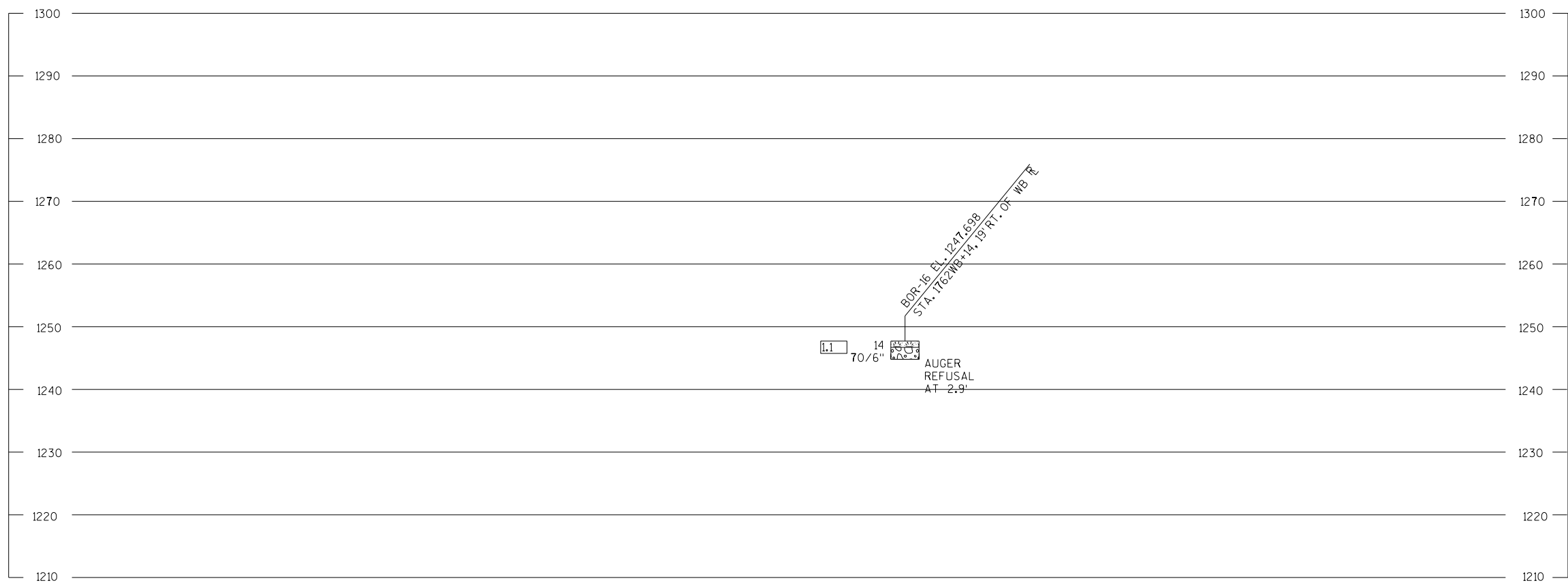
▽ AT TIME OF DRILLING
 ▼ END OF DRILLING
 ▼ AFTER DRILLING

ABBREVIATIONS

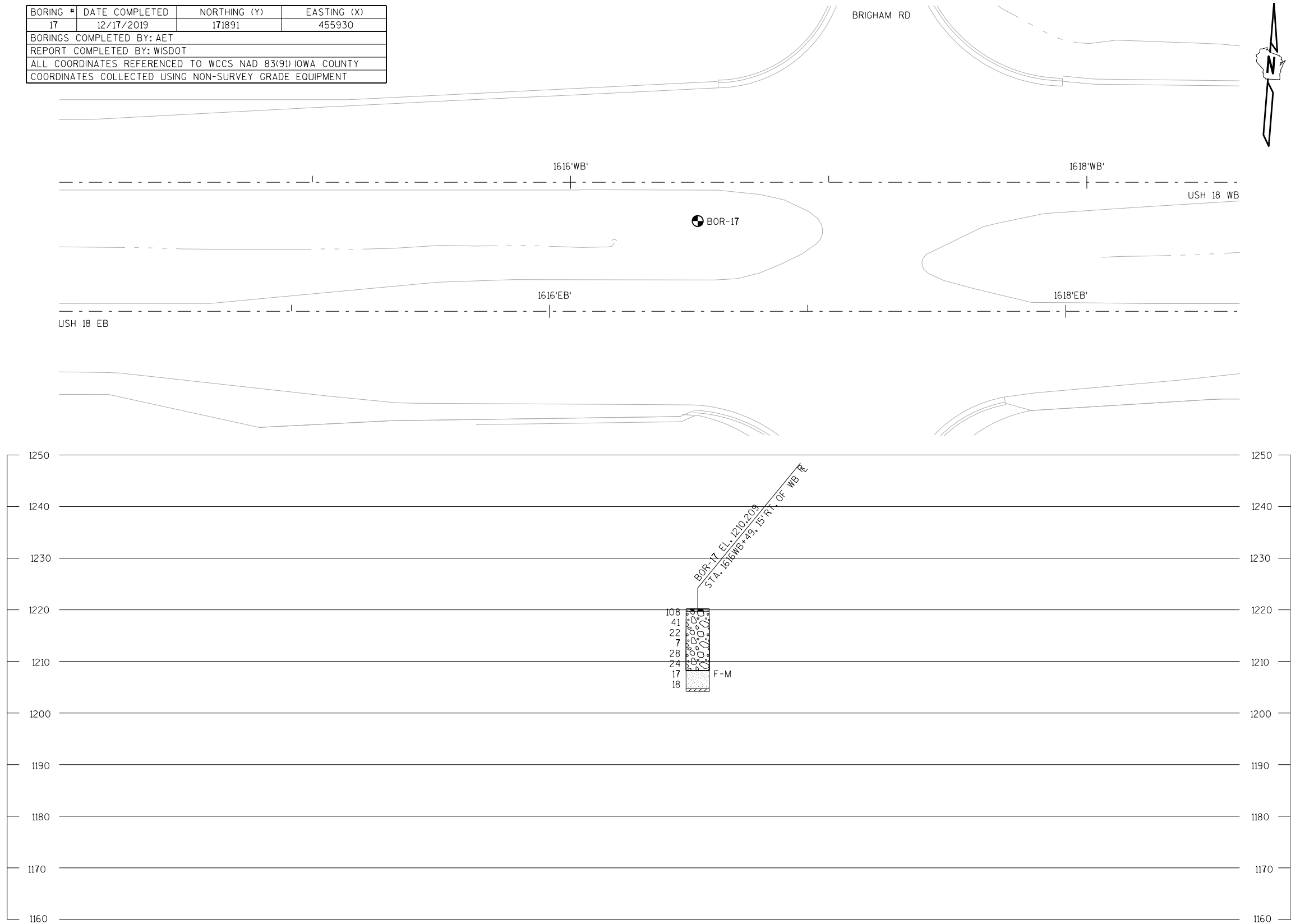
F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

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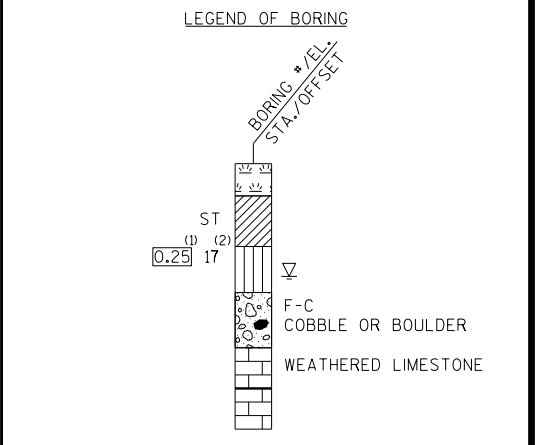


BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
17	12/17/2019	171891	455930
BORINGS COMPLETED BY: AET			
REPORT COMPLETED BY: WISDOT			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) IOWA COUNTY			
COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT			



MATERIAL SYMBOLS

	ASPHALT		TOPSOIL		PEAT
	CONCRETE		FILL		GRAVEL
	SAND		CLAY		SILT
	BOULDERS OR COBBLES		LIMESTONE		BEDROCK (UNKNOWN)
	SHALE		SANDSTONE		IGNEOUS/META



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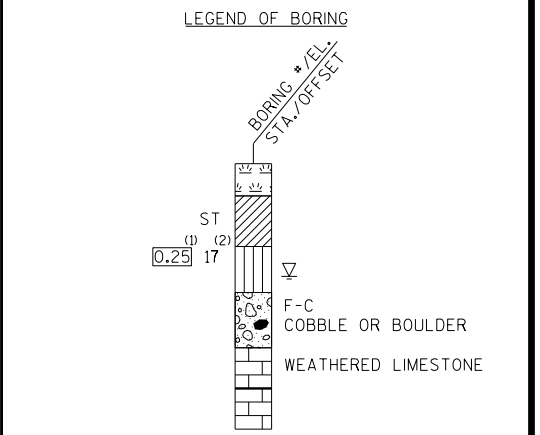
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
18	12/17/2019	171628	452436
19	12/17/2019	171605	452380

BORINGS COMPLETED BY: AET
 REPORT COMPLETED BY: WISDOT
 ALL COORDINATES REFERENCED TO WCCS NAD 83(91) IOWA COUNTY
 COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT



MATERIAL SYMBOLS

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	CONCRETE		FILL		GRAVEL
	SAND		CLAY		SILT
	BOULDERS OR COBBLES		LIMESTONE		BEDROCK (UNKNOWN)
	SHALE		SANDSTONE		IGNEOUS/META



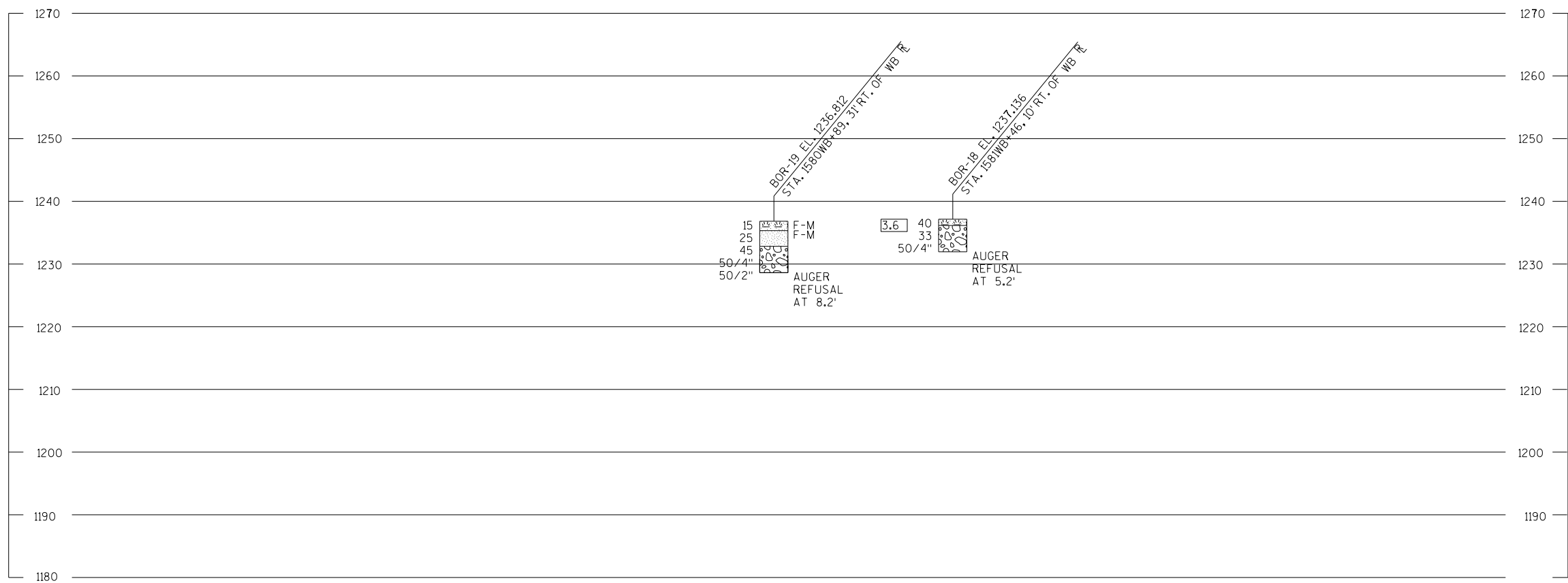
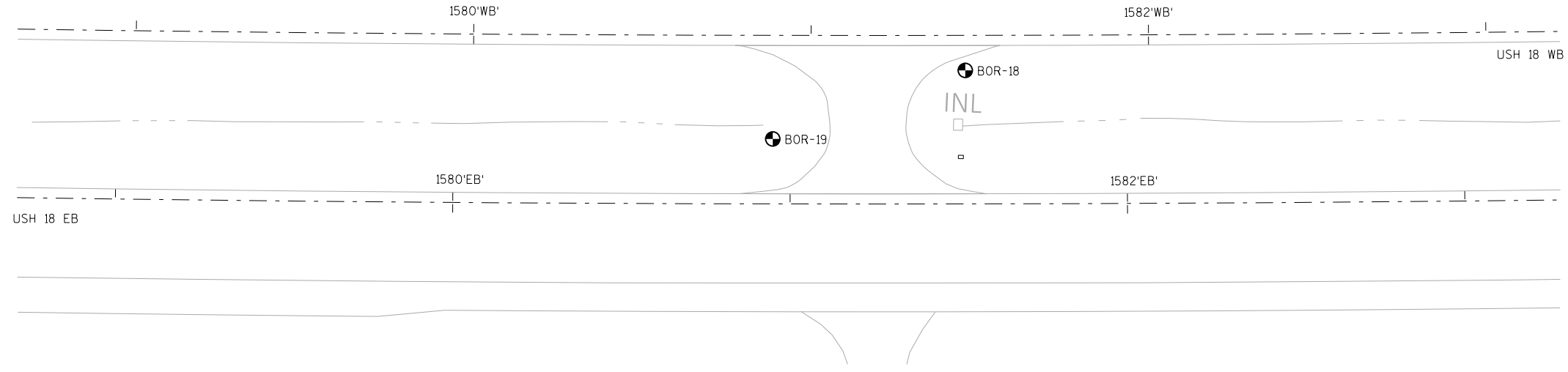
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 ▼ END OF DRILLING
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ABBREVIATIONS
 F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

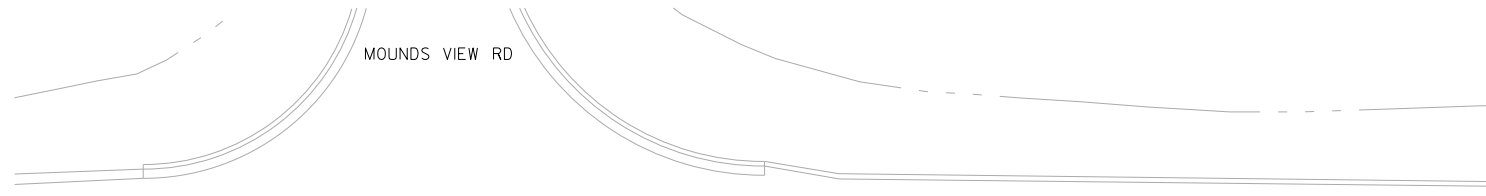
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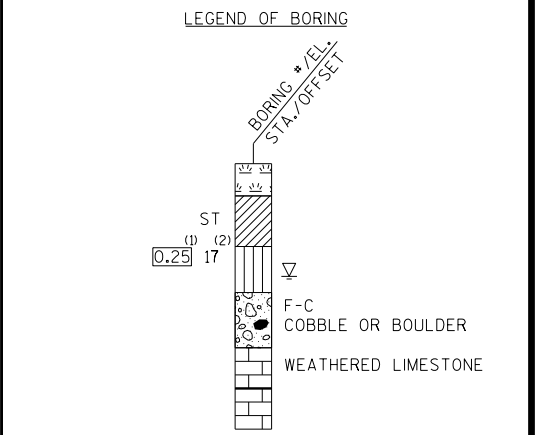
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
20	12/17/2019	171617	450733
21	12/16/2019	171646	450586

BORINGS COMPLETED BY: AET
 REPORT COMPLETED BY: WISDOT
 ALL COORDINATES REFERENCED TO WCCS NAD 83(91) IOWA COUNTY
 COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT



MATERIAL SYMBOLS

	ASPHALT		TOPSOIL		PEAT
	CONCRETE		FILL		GRAVEL
	SAND		CLAY		SILT
	BOULDERS OR COBBLES		LIMESTONE		BEDROCK (UNKNOWN)
	SHALE		SANDSTONE		IGNEOUS/META

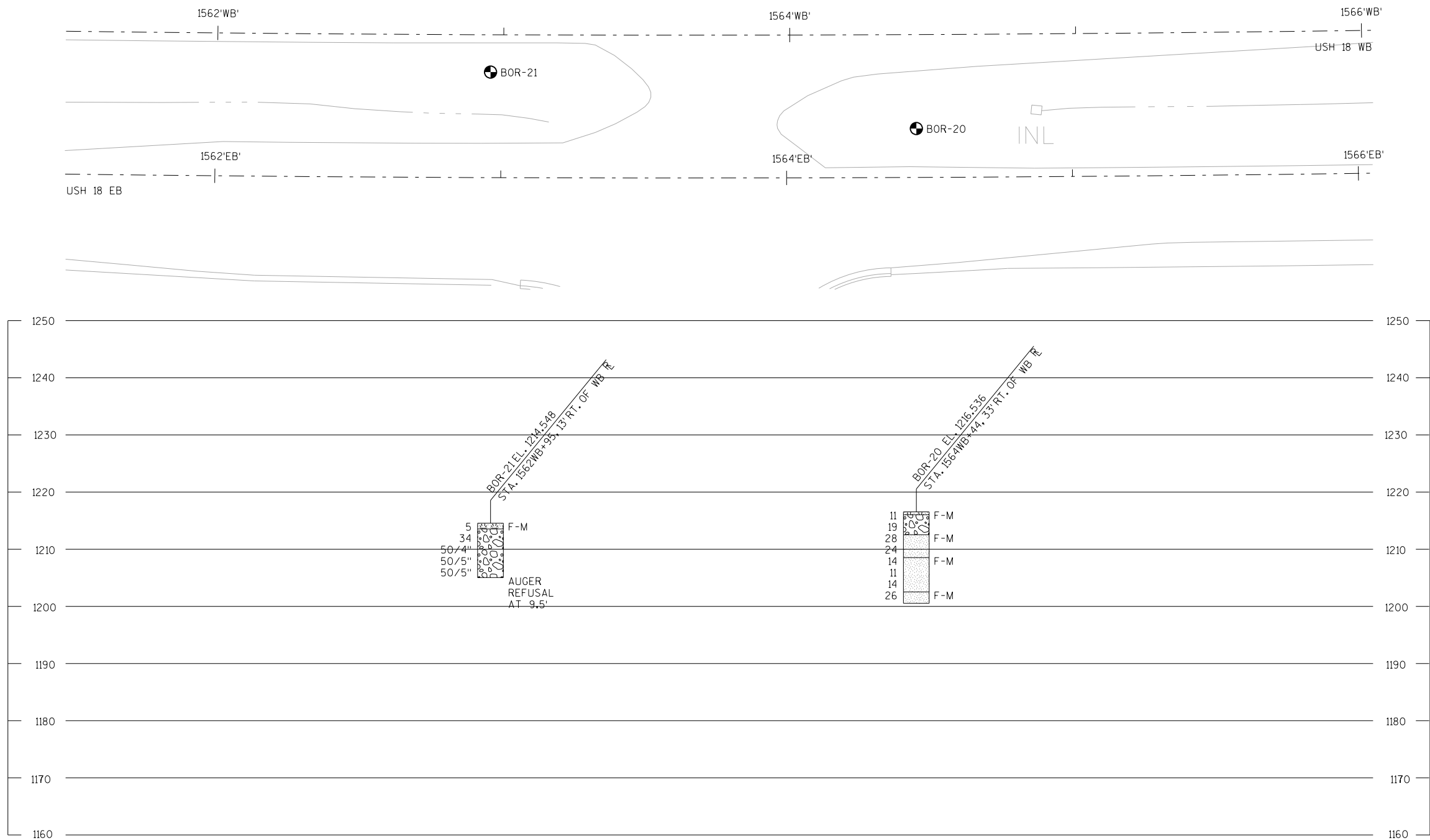


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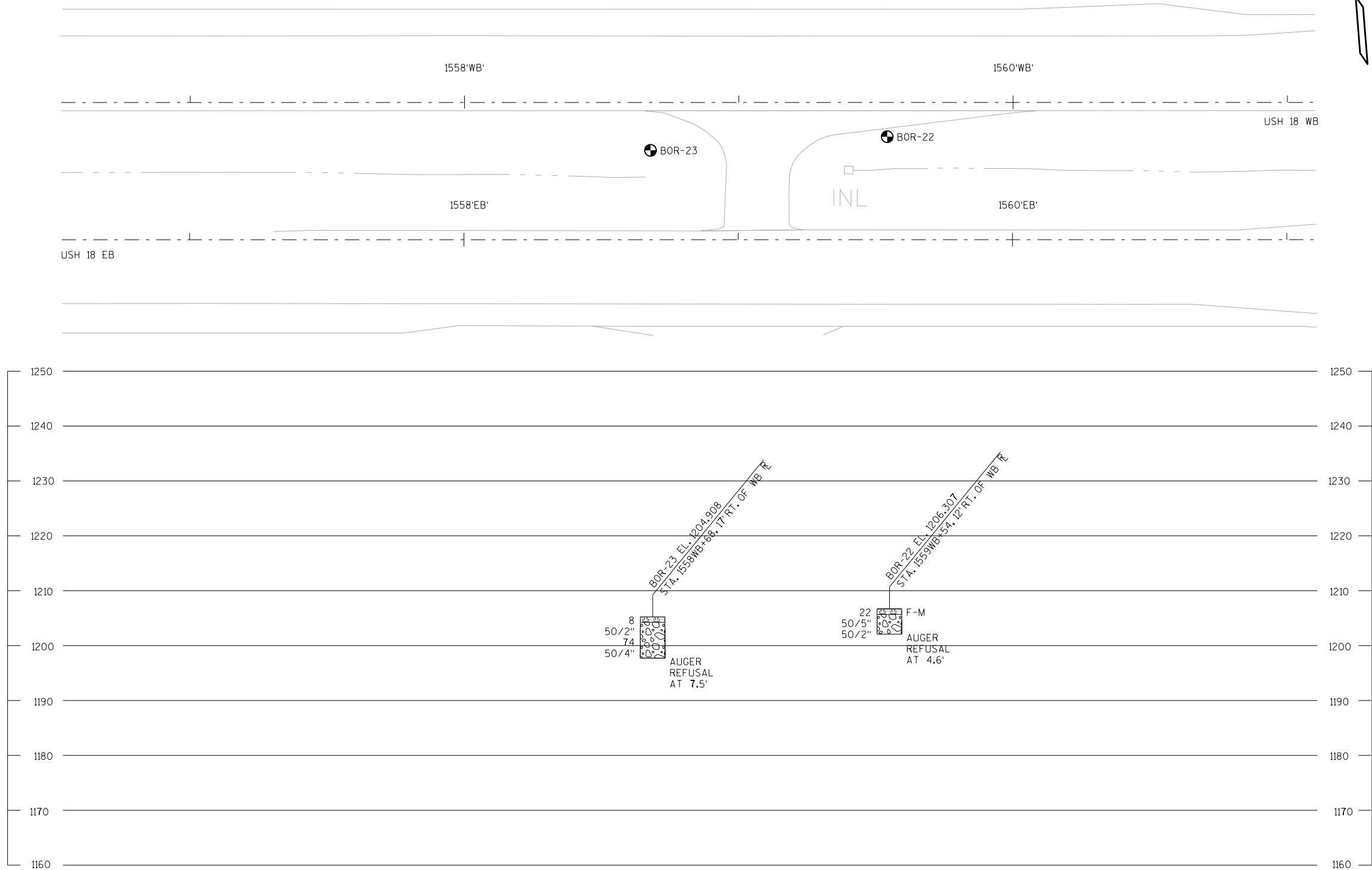
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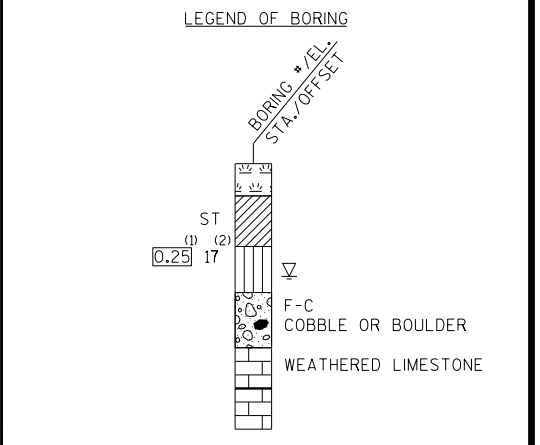
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
22	12/16/2019	171672	450245
23	12/16/2019	171674	450159

BORINGS COMPLETED BY: AET
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MATERIAL SYMBOLS

	ASPHALT		TOPSOIL		PEAT
	CONCRETE		FILL		GRAVEL
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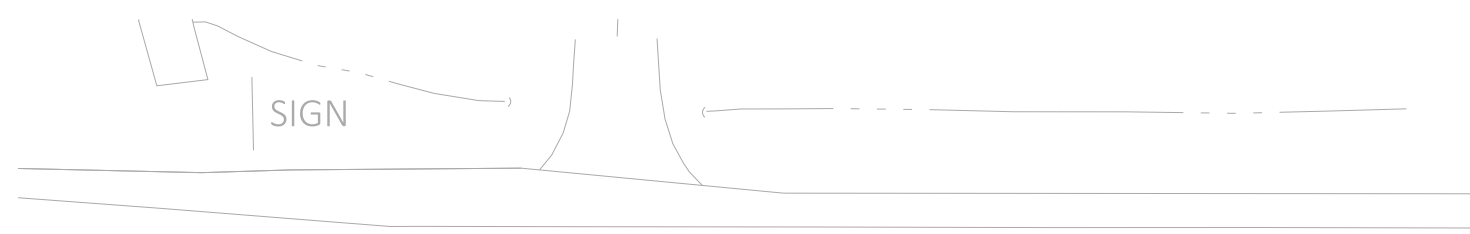
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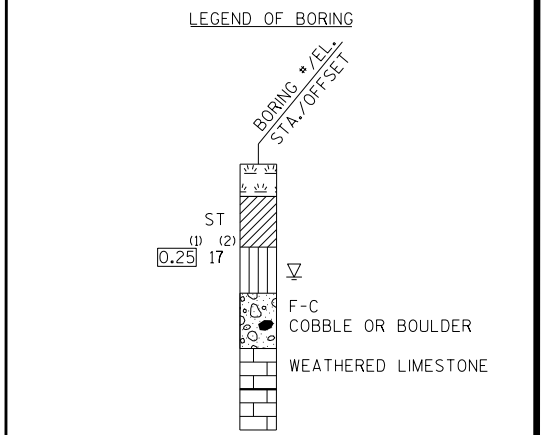
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
24	12/16/2019	171934	446896
25	12/16/2019	171923	446796

BORINGS COMPLETED BY: AET
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 COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT



MATERIAL SYMBOLS

	ASPHALT		TOPSOIL		PEAT
	CONCRETE		FILL		GRAVEL
	SAND		CLAY		SILT
	BOULDERS OR COBBLES		LIMESTONE		BEDROCK (UNKNOWN)
	SHALE		SANDSTONE		IGNEOUS/META



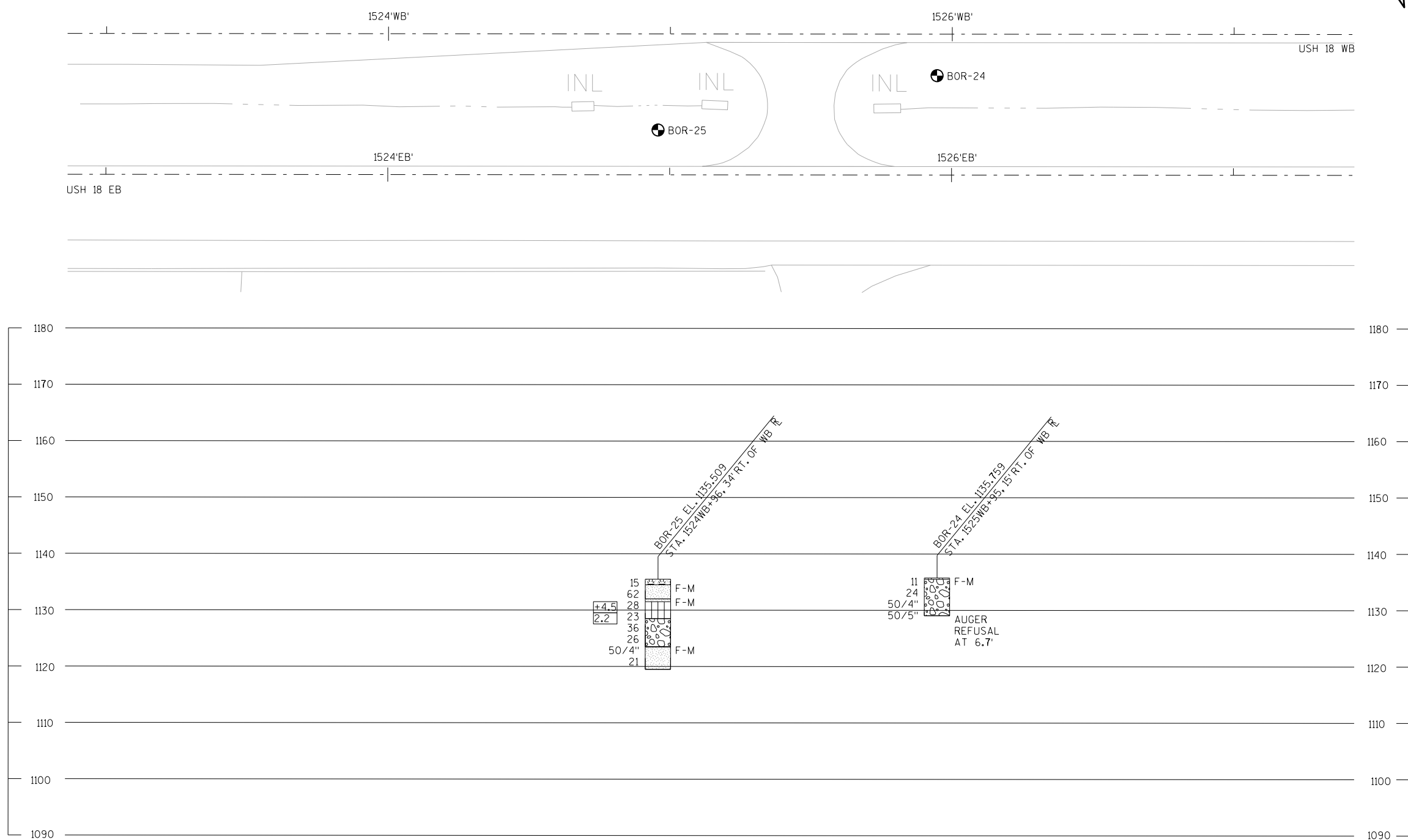
⁽¹⁾ UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)
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 ▽ AT TIME OF DRILLING
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ABBREVIATIONS
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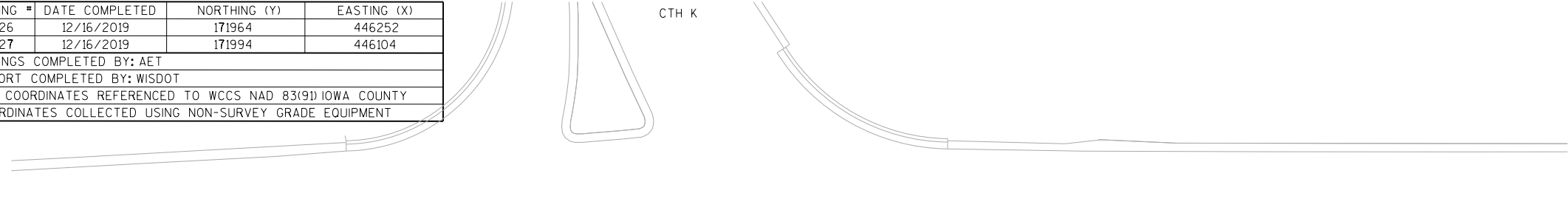
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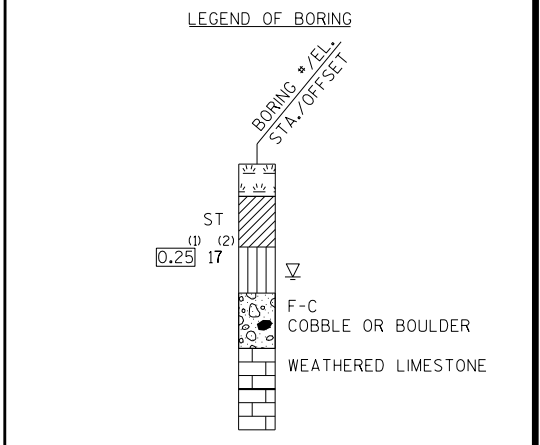
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
26	12/16/2019	171964	446252
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BORINGS COMPLETED BY: AET
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MATERIAL SYMBOLS

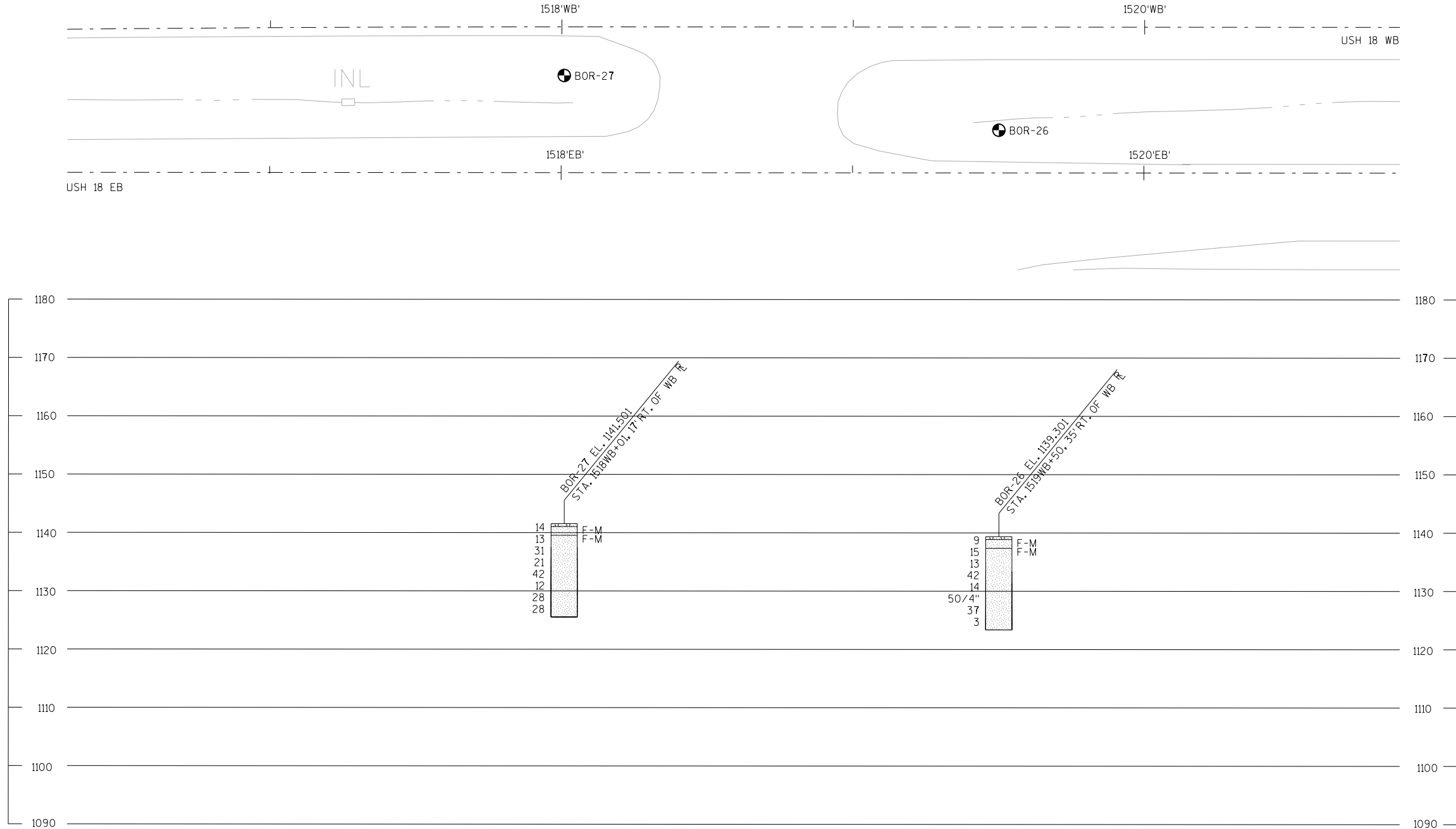
	ASPHALT		TOPSOIL		PEAT
	CONCRETE		FILL		GRAVEL
	SAND		CLAY		SILT
	BOULDERS OR COBBLES		LIMESTONE		BEDROCK (UNKNOWN)
	SHALE		SANDSTONE		IGNEOUS/META



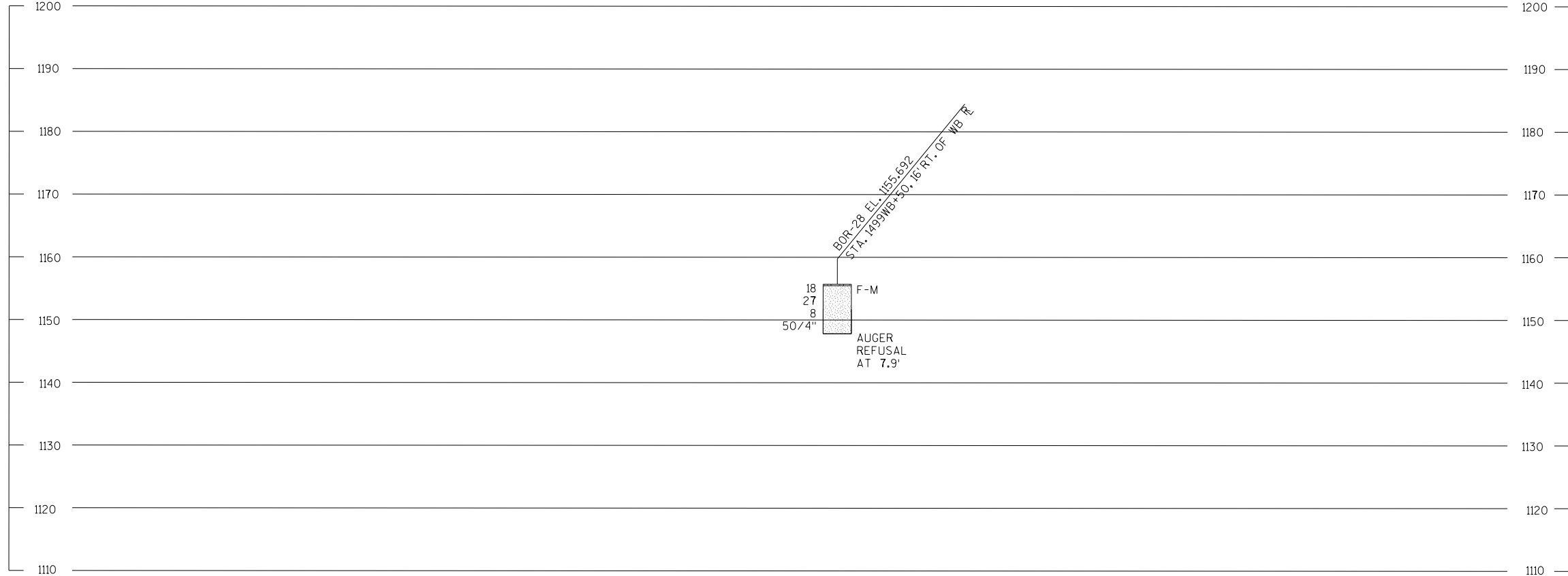
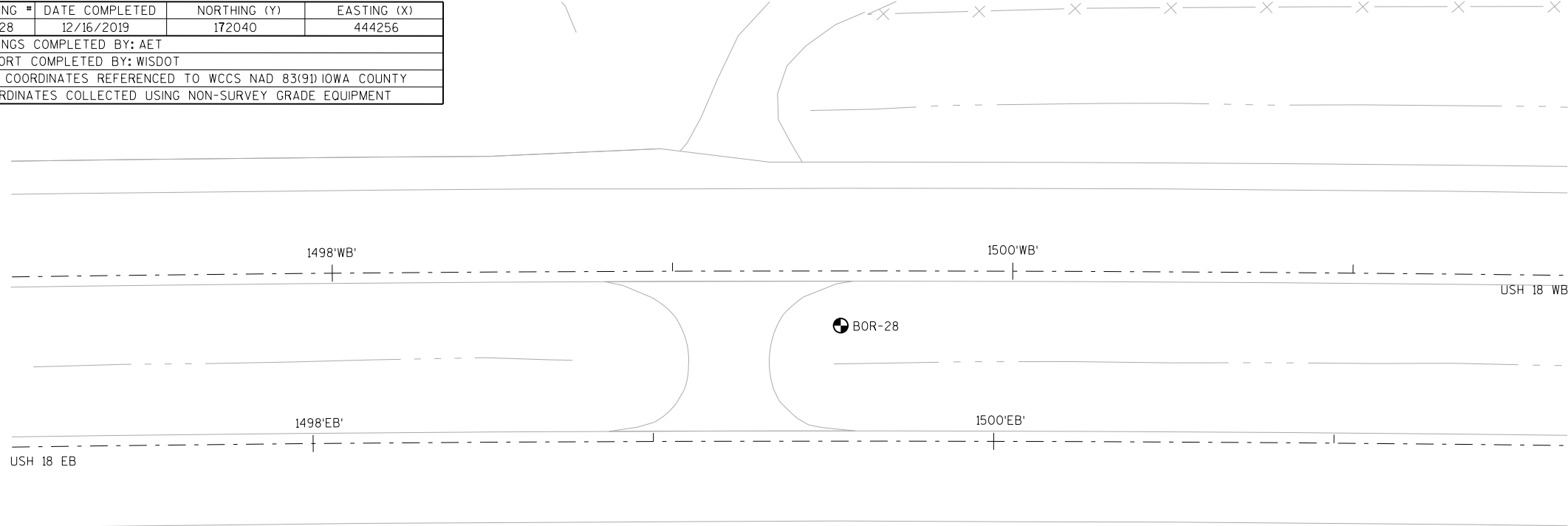
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GROUND WATER ELEVATION
 ▽ AT TIME OF DRILLING
 ▼ END OF DRILLING
 ▾ AFTER DRILLING

ABBREVIATIONS
 F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

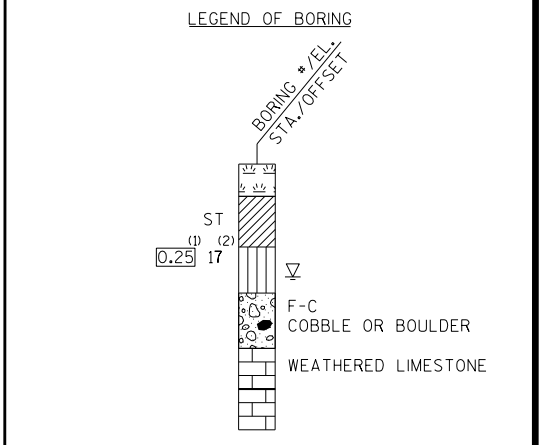


BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
28	12/16/2019	172040	444256
BORINGS COMPLETED BY: AET			
REPORT COMPLETED BY: WISDOT			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) IOWA COUNTY			
COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT			



MATERIAL SYMBOLS

	ASPHALT		TOPSOIL		PEAT
	CONCRETE		FILL		GRAVEL
	SAND		CLAY		SILT
	BOULDERS OR COBBLES		LIMESTONE		BEDROCK (UNKNOWN)
	SHALE		SANDSTONE		IGNEOUS/META



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GROUND WATER ELEVATION
 ▽ AT TIME OF DRILLING
 ▼ END OF DRILLING
 ▽ AFTER DRILLING

ABBREVIATIONS
 F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
29	12/13/2019	171623	428221

BORINGS COMPLETED BY: AET
 REPORT COMPLETED BY: WISDOT
 ALL COORDINATES REFERENCED TO WCCS NAD 83(91) IOWA COUNTY
 COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT



MATERIAL SYMBOLS

	ASPHALT		TOPSOIL		PEAT
	CONCRETE		FILL		GRAVEL
	SAND		CLAY		SILT
	BOULDERS OR COBBLES		LIMESTONE		BEDROCK (UNKNOWN)
	SHALE		SANDSTONE		IGNEOUS/META

LEGEND OF BORING

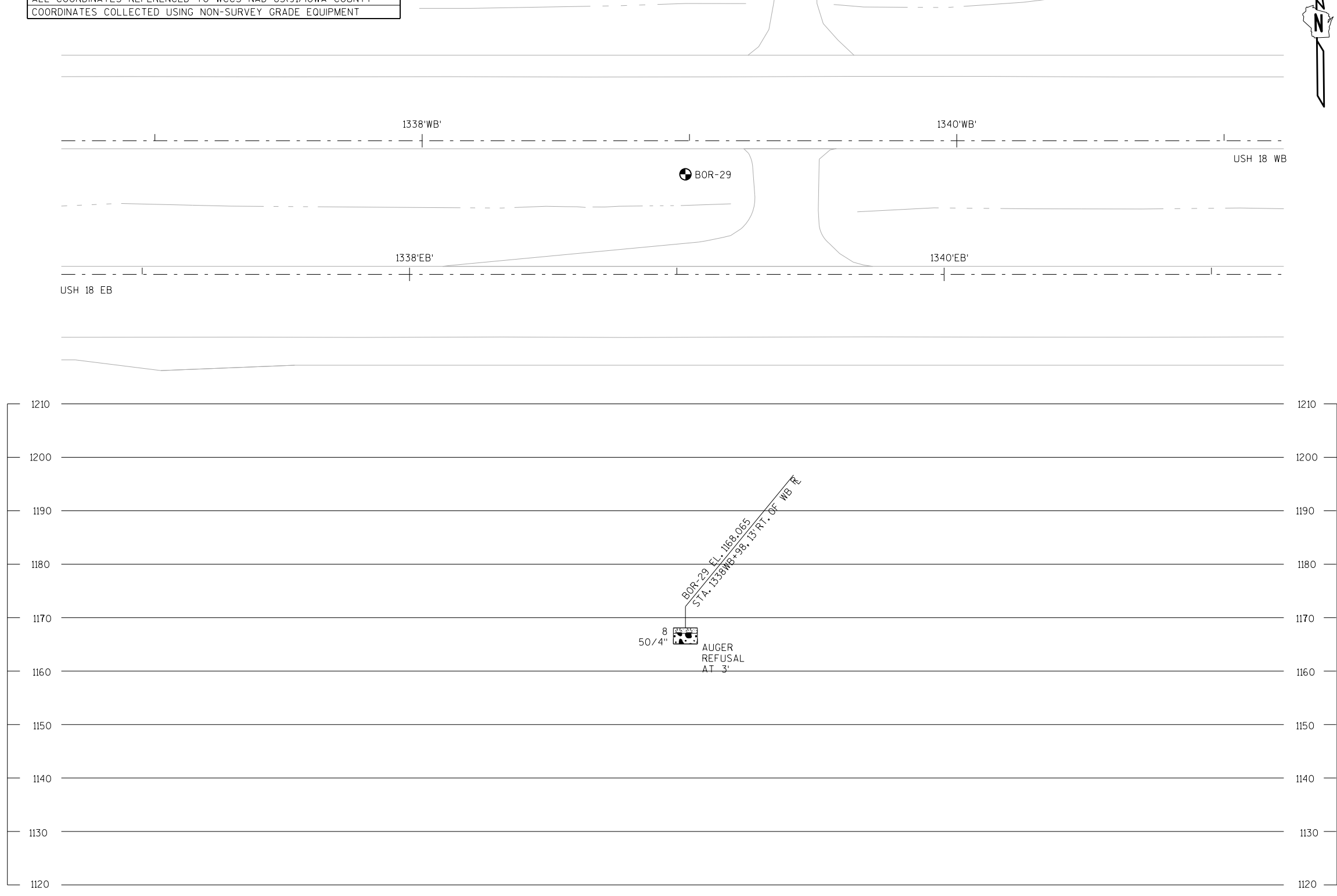
⁽¹⁾ UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)
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GROUND WATER ELEVATION
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ABBREVIATIONS
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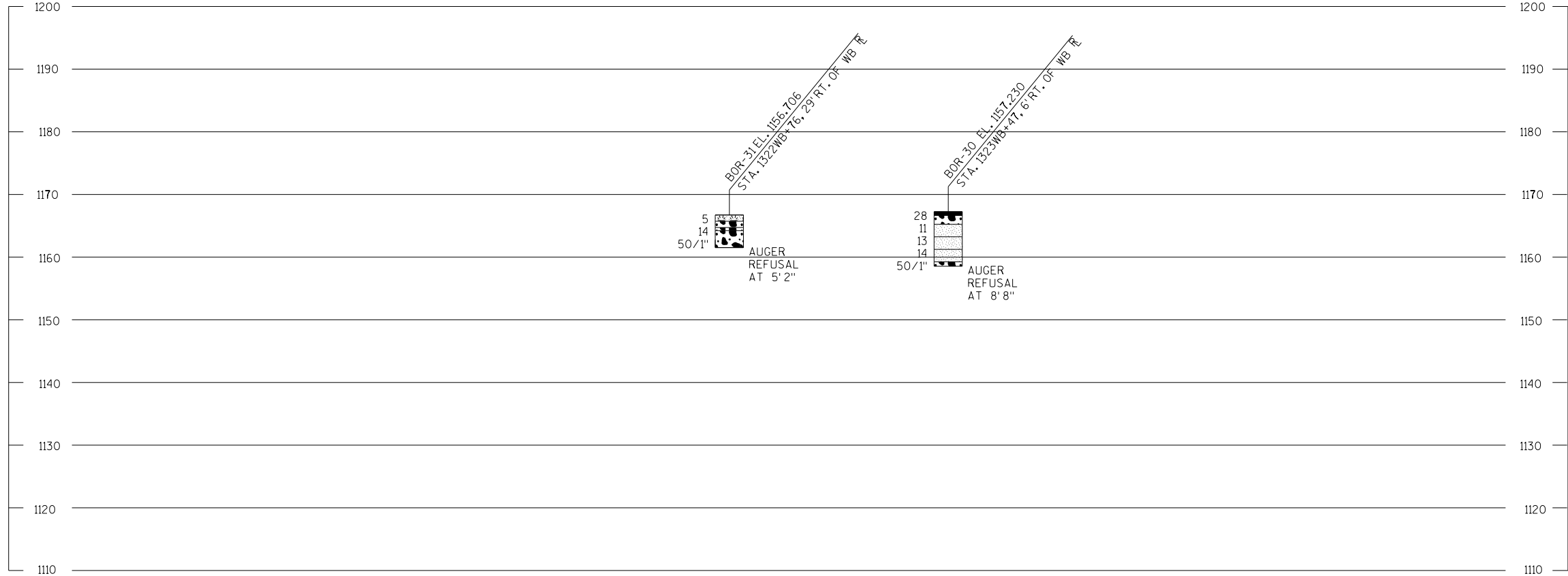
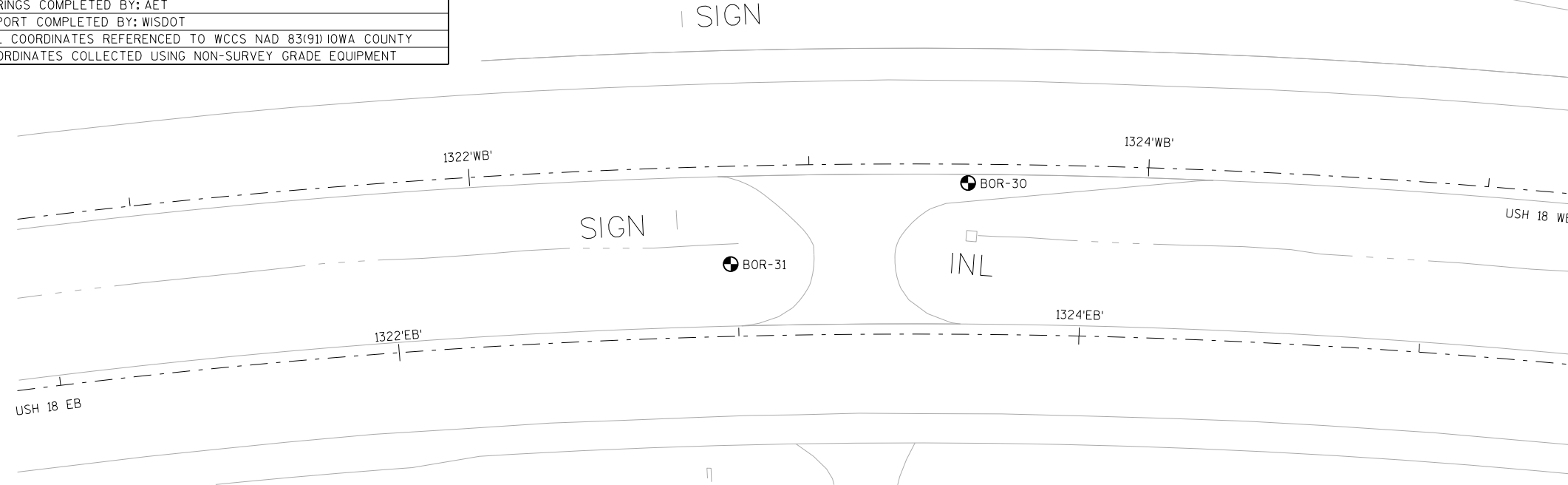
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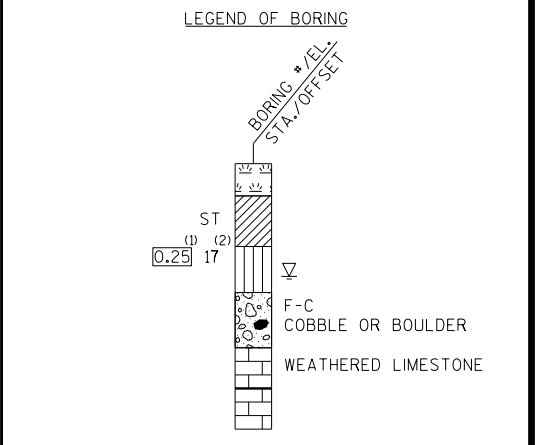
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
30	12/13/2019	171511	426683
31	12/13/2019	171466	426625

BORINGS COMPLETED BY: AET
 REPORT COMPLETED BY: WISDOT
 ALL COORDINATES REFERENCED TO WCCS NAD 83(91) IOWA COUNTY
 COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT



MATERIAL SYMBOLS

	ASPHALT		TOPSOIL		PEAT
	CONCRETE		FILL		GRAVEL
	SAND		CLAY		SILT
	BOULDERS OR COBBLES		LIMESTONE		BEDROCK (UNKNOWN)
	SHALE		SANDSTONE		IGNEOUS/META

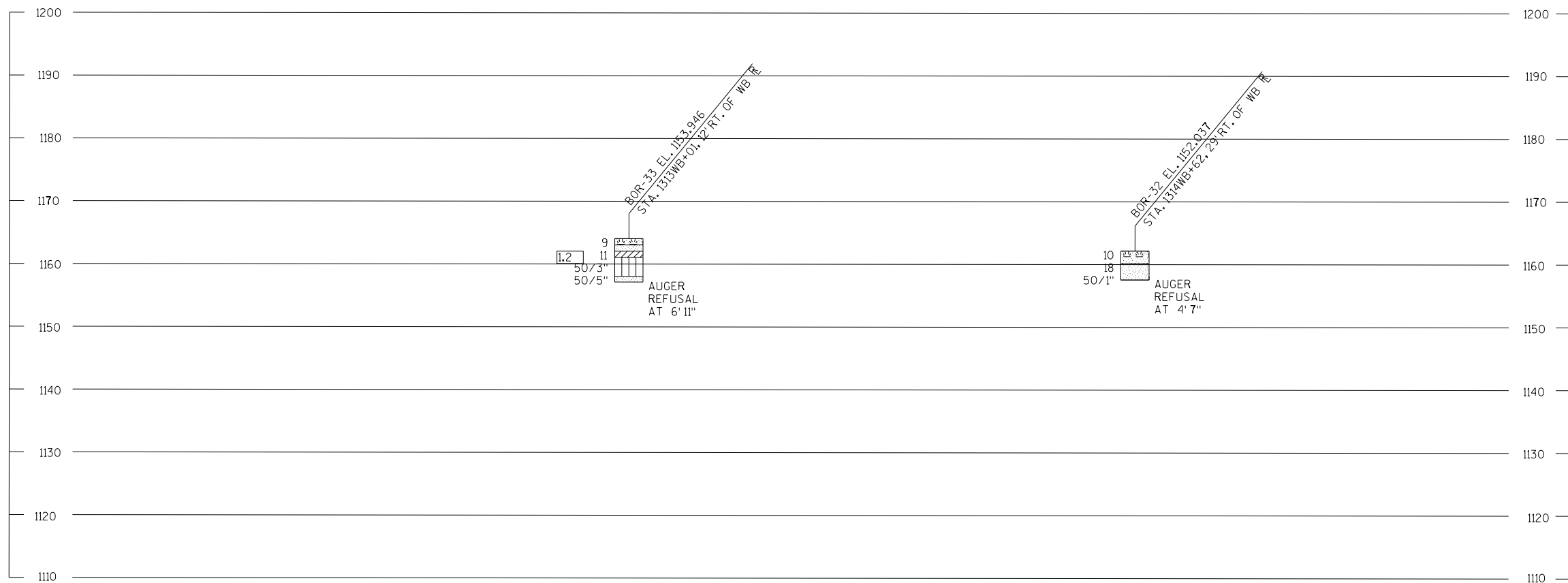
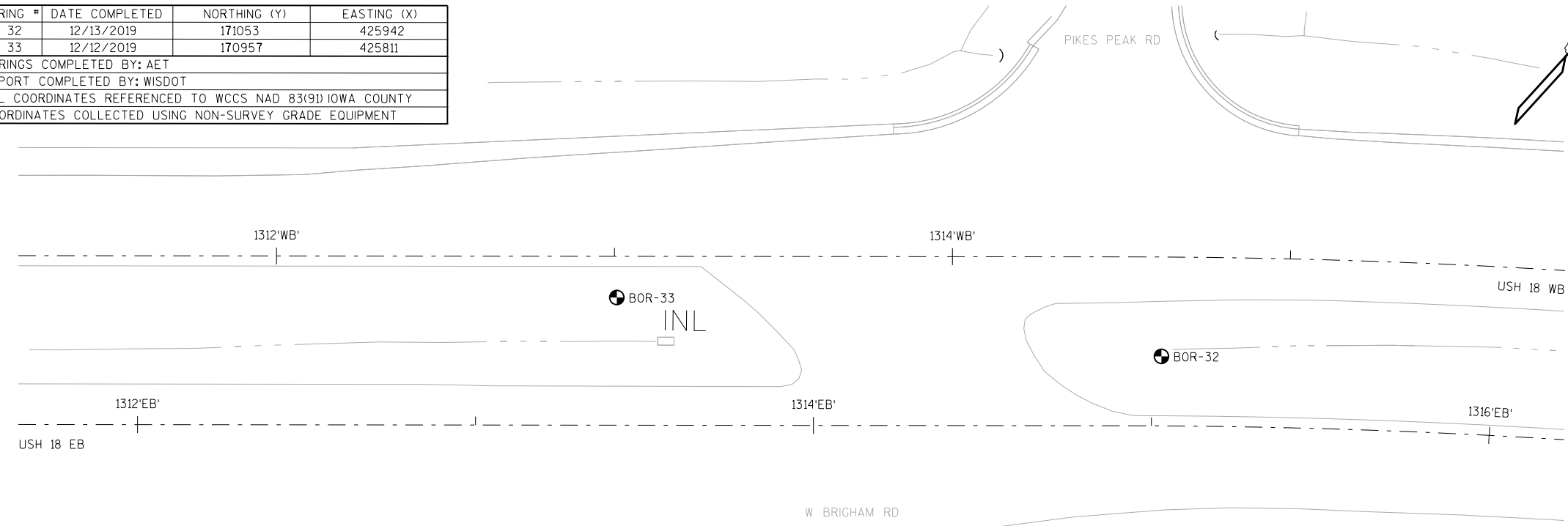


SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

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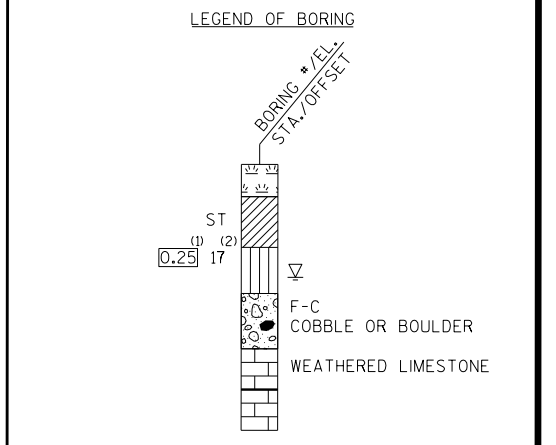
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32	12/13/2019	171053	425942
33	12/12/2019	170957	425811

BORINGS COMPLETED BY: AET
 REPORT COMPLETED BY: WISDOT
 ALL COORDINATES REFERENCED TO WCCS NAD 83(91) IOWA COUNTY
 COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT



MATERIAL SYMBOLS

	ASPHALT		TOPSOIL		PEAT
	CONCRETE		FILL		GRAVEL
	SAND		CLAY		SILT
	BOULDERS OR COBBLES		LIMESTONE		BEDROCK (UNKNOWN)
	SHALE		SANDSTONE		IGNEOUS/META



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GROUND WATER ELEVATION

▽ AT TIME OF DRILLING
 ▼ END OF DRILLING
 ▽ AFTER DRILLING

ABBREVIATIONS

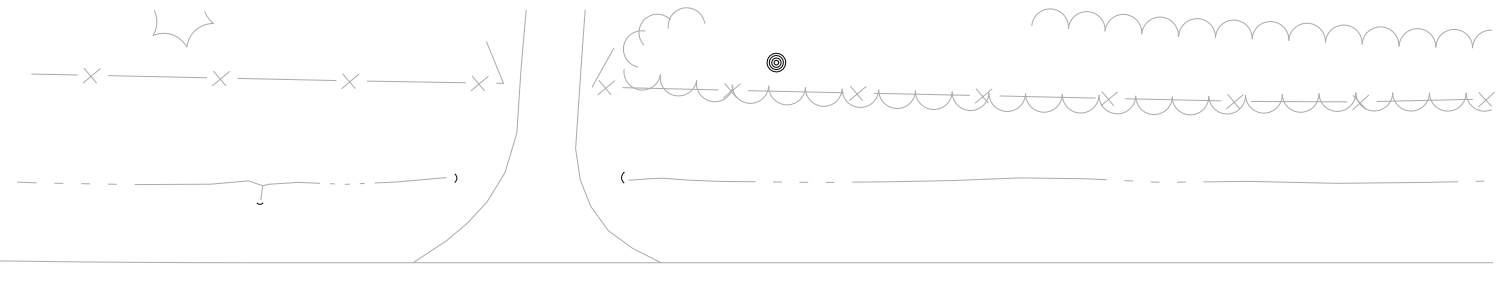
F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

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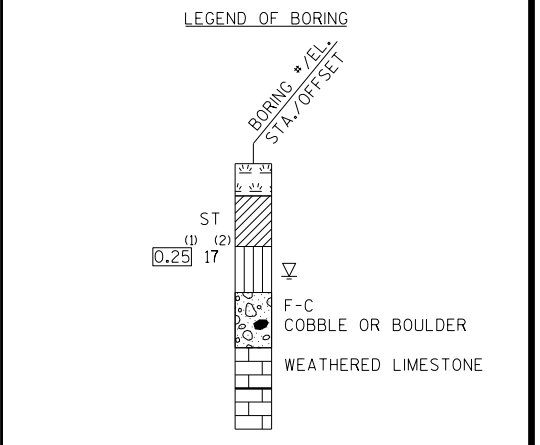
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
34	12/12/2019	170109	424090
35	12/12/2019	170074	424004

BORINGS COMPLETED BY: AET
 REPORT COMPLETED BY: WISDOT
 ALL COORDINATES REFERENCED TO WCCS NAD 83(91) IOWA COUNTY
 COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT



MATERIAL SYMBOLS

	ASPHALT		TOPSOIL		PEAT
	CONCRETE		FILL		GRAVEL
	SAND		CLAY		SILT
	BOULDERS OR COBBLES		LIMESTONE		BEDROCK (UNKNOWN)
	SHALE		SANDSTONE		IGNEOUS/META



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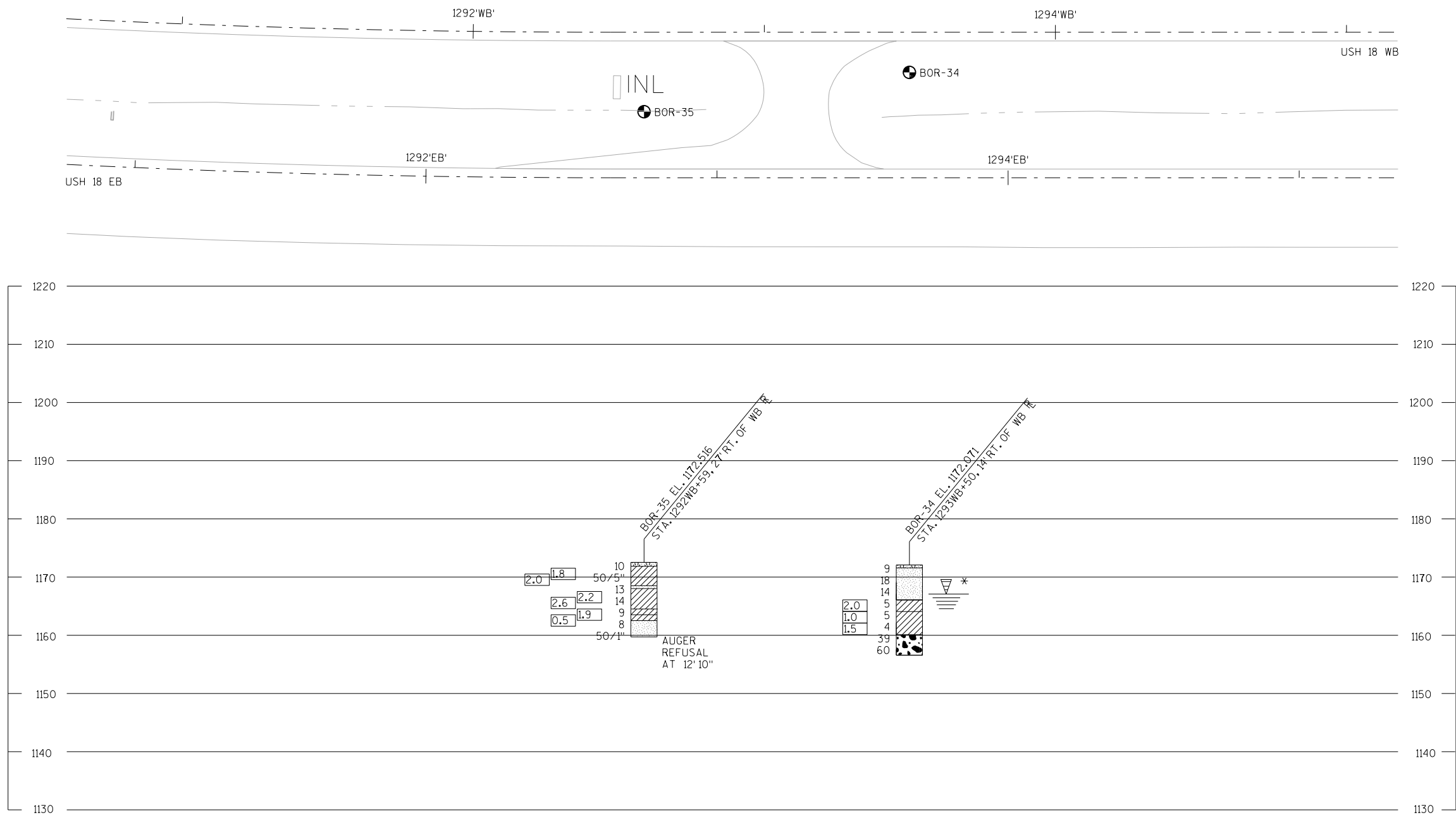
GROUND WATER ELEVATION

ABBREVIATIONS
 F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

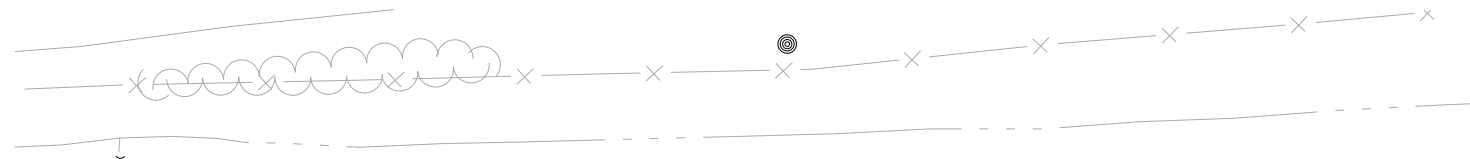
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* THE GROUND WATER ELEVATION WAS DETERMINED FROM WHERE THE SOIL SAMPLE WAS DESCRIBED AS WET.



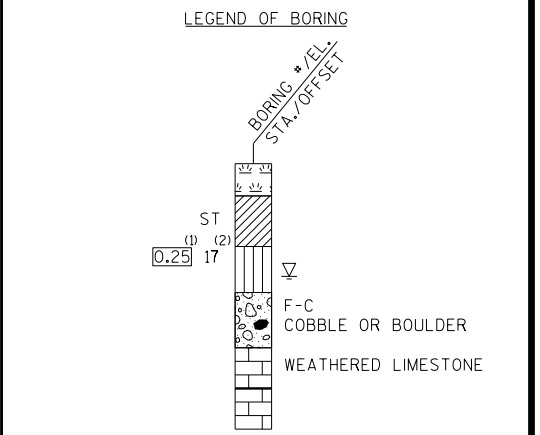
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
36	12/12/2019	169995	423631
37	12/12/2019	169990	423565

BORINGS COMPLETED BY: AET
 REPORT COMPLETED BY: WISDOT
 ALL COORDINATES REFERENCED TO WCCS NAD 83(91) IOWA COUNTY
 COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT



MATERIAL SYMBOLS

	ASPHALT		TOPSOIL		PEAT
	CONCRETE		FILL		GRAVEL
	SAND		CLAY		SILT
	BOULDERS OR COBBLES		LIMESTONE		BEDROCK (UNKNOWN)
	SHALE		SANDSTONE		IGNEOUS/META



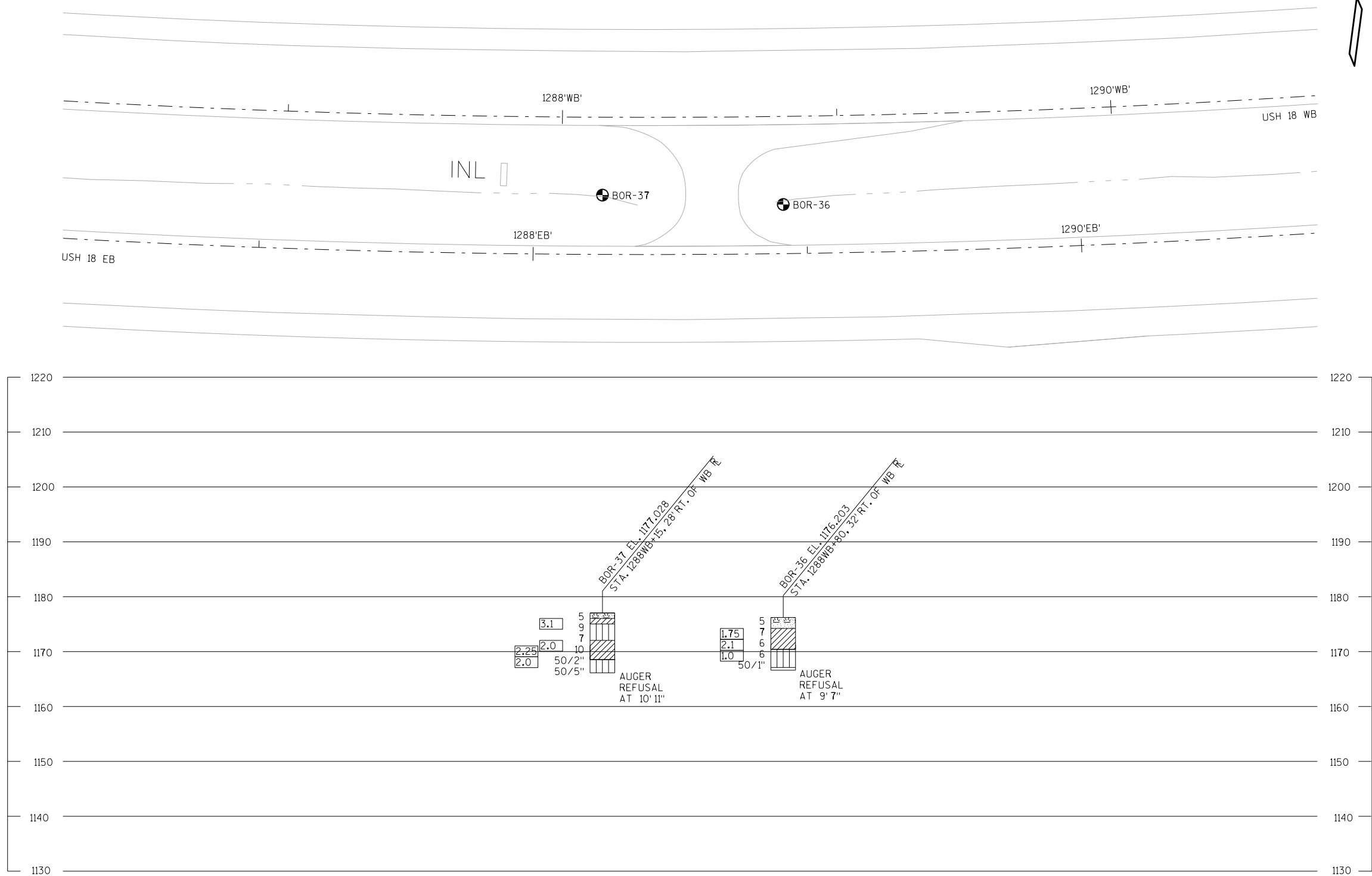
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GROUND WATER ELEVATION
 ▽ AT TIME OF DRILLING
 ▼ END OF DRILLING
 ▽ AFTER DRILLING

ABBREVIATIONS
 F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

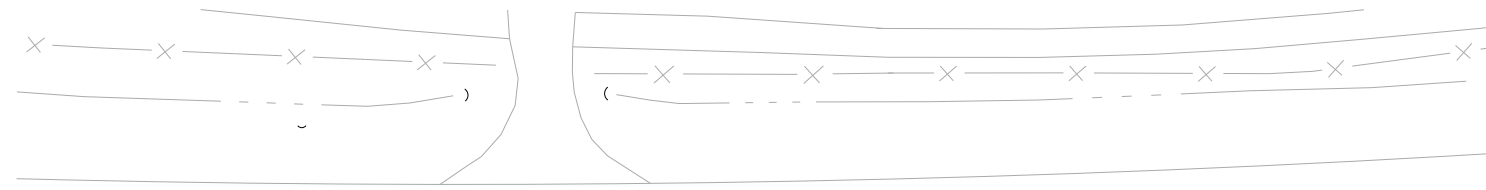
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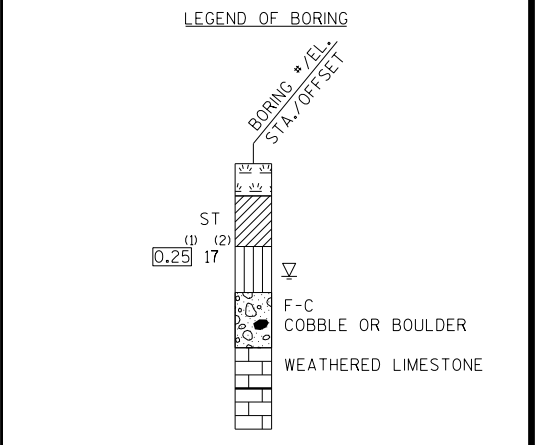
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
38	12/11/2019	169961	423218
39	12/11/2019	169960	423112

BORINGS COMPLETED BY: AET
 REPORT COMPLETED BY: WISDOT
 ALL COORDINATES REFERENCED TO WCCS NAD 83(91) IOWA COUNTY
 COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT



MATERIAL SYMBOLS

	ASPHALT		TOPSOIL		PEAT
	CONCRETE		FILL		GRAVEL
	SAND		CLAY		SILT
	BOULDERS OR COBBLES		LIMESTONE		BEDROCK (UNKNOWN)
	SHALE		SANDSTONE		IGNEOUS/META



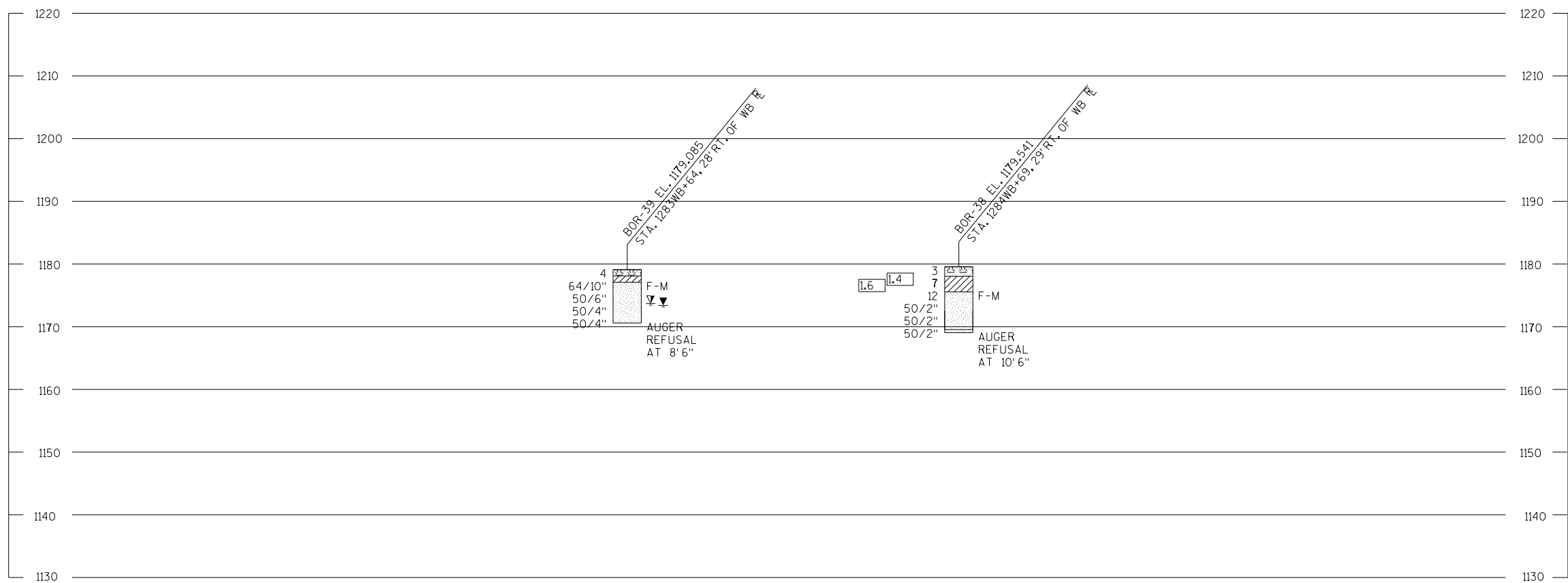
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ABBREVIATIONS
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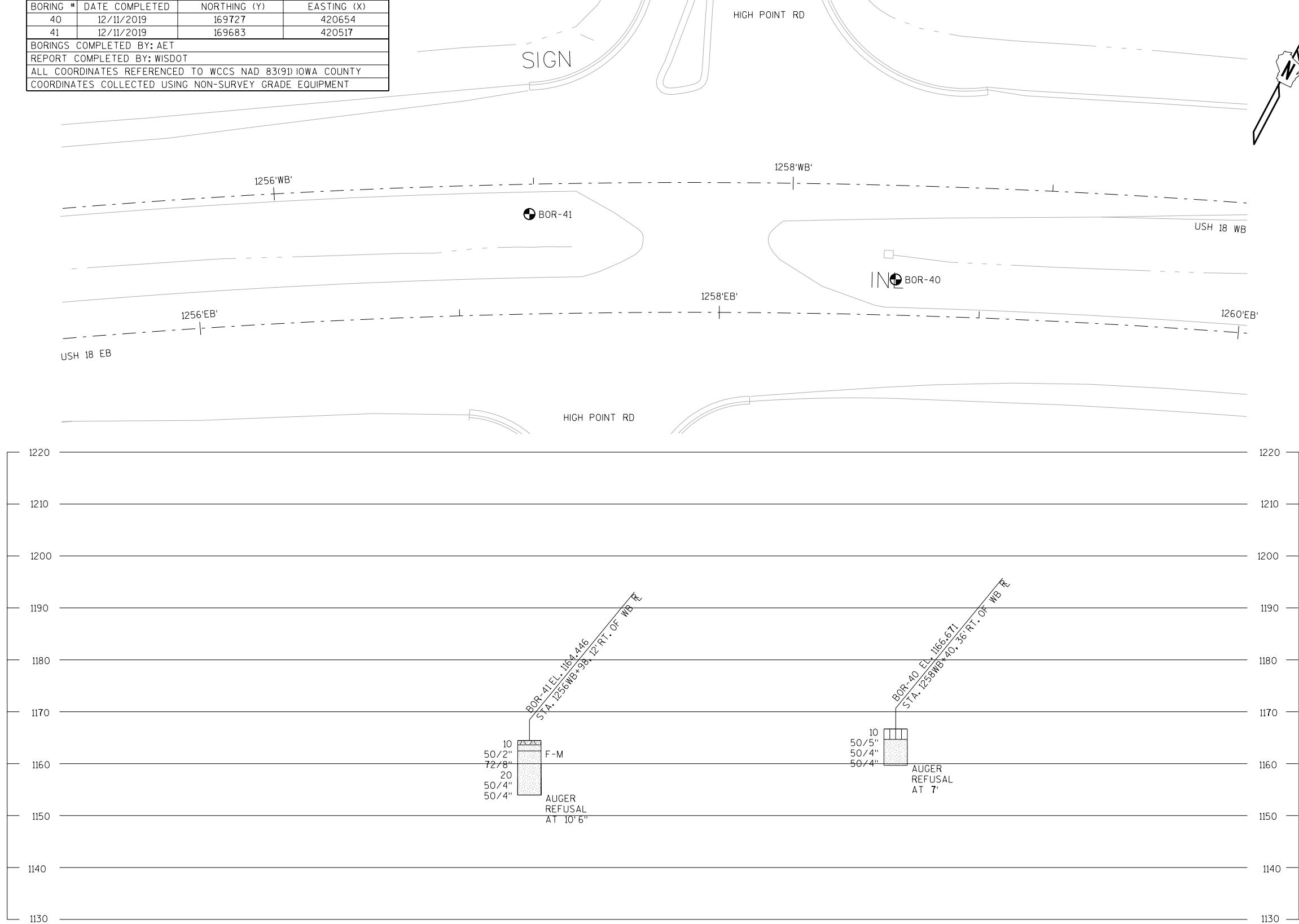
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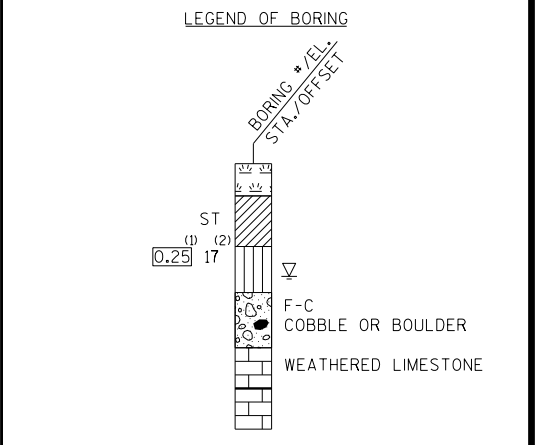
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
40	12/11/2019	169727	420654
41	12/11/2019	169683	420517

BORINGS COMPLETED BY: AET
 REPORT COMPLETED BY: WISDOT
 ALL COORDINATES REFERENCED TO WCCS NAD 83(91) IOWA COUNTY
 COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT



MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
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GROUND WATER ELEVATION

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ABBREVIATIONS

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SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

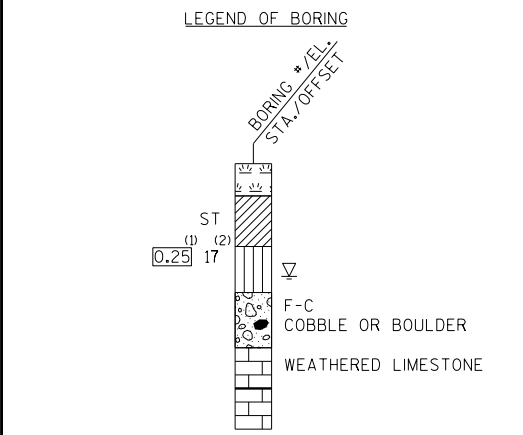
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BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
42	12/11/2019	167947	418997
43	12/11/2019	167888	418966

BORINGS COMPLETED BY: AET
 REPORT COMPLETED BY: WISDOT
 ALL COORDINATES REFERENCED TO WCCS NAD 83(91) IOWA COUNTY
 COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT

MATERIAL SYMBOLS

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	CONCRETE		FILL		GRAVEL
	SAND		CLAY		SILT
	BOULDERS OR COBBLES		LIMESTONE		BEDROCK (UNKNOWN)
	SHALE		SANDSTONE		IGNEOUS/META



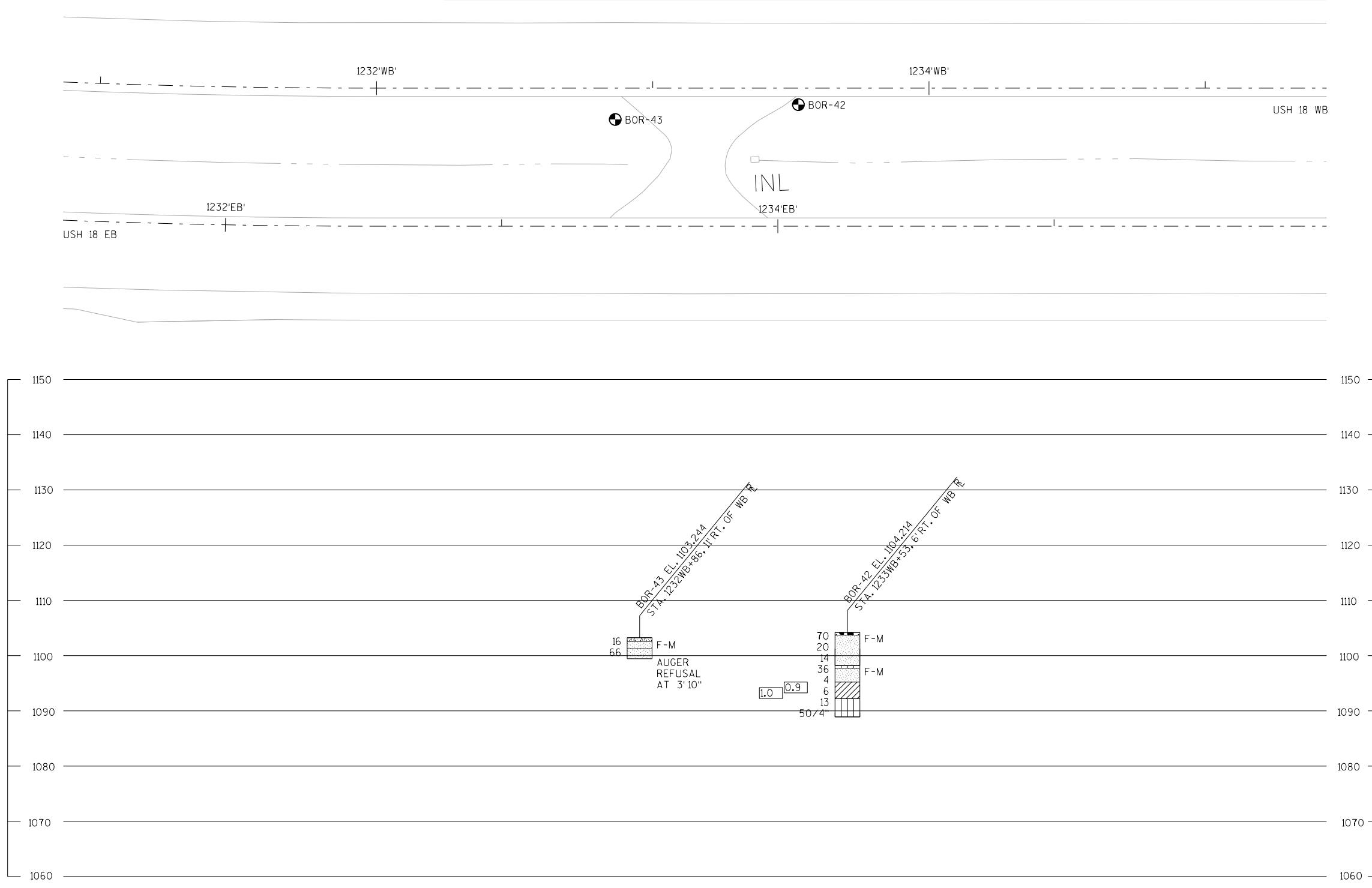
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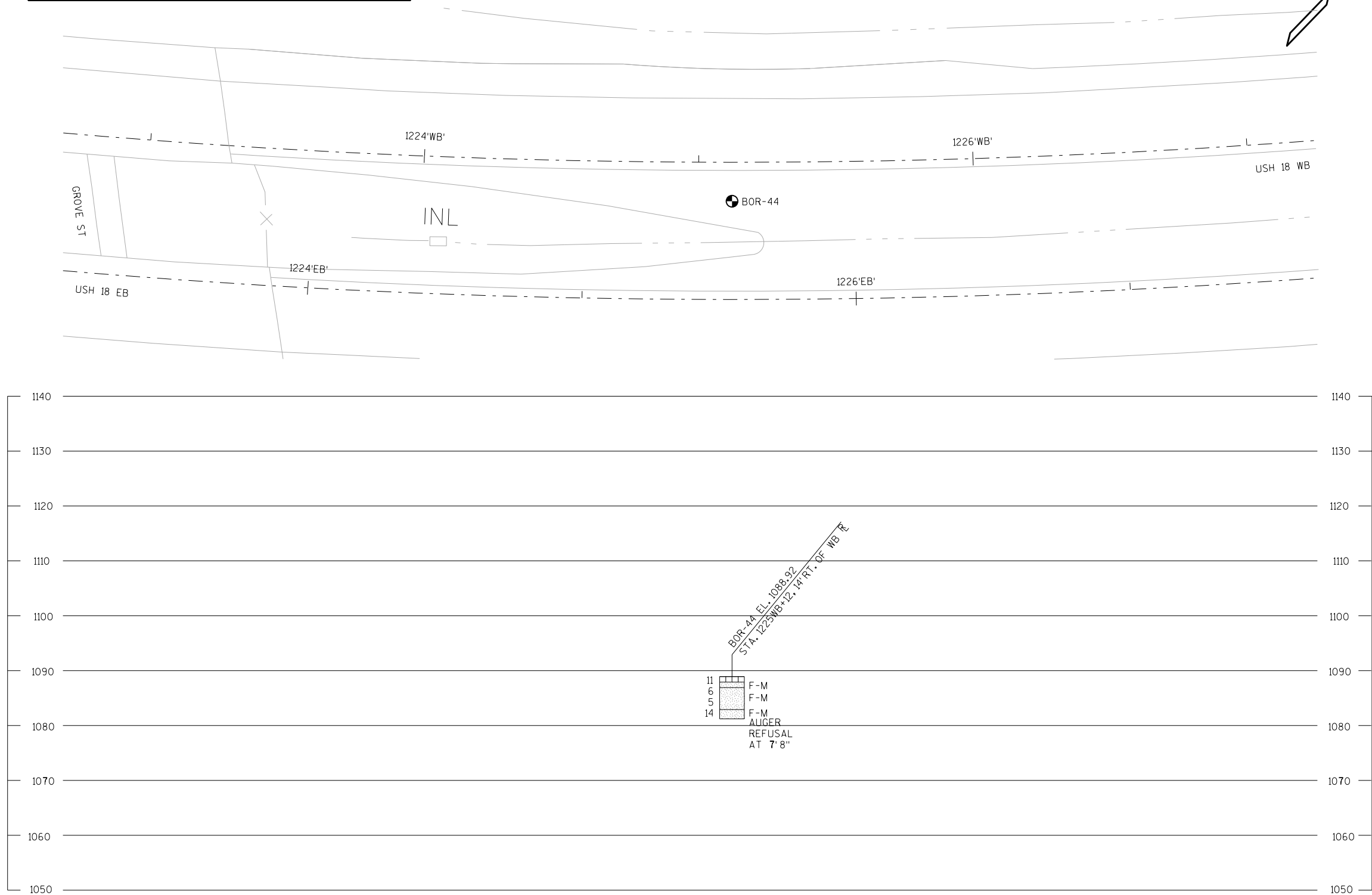
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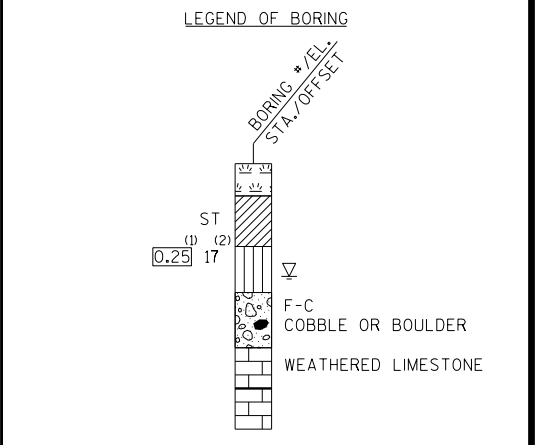


BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
44	12/11/2019	167277	418488
BORINGS COMPLETED BY: AET			
REPORT COMPLETED BY: WISDOT			
ALL COORDINATES REFERENCED TO WCCS NAD 83(9) IOWA COUNTY			
COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT			



MATERIAL SYMBOLS

	ASPHALT		TOPSOIL		PEAT
	CONCRETE		FILL		GRAVEL
	SAND		CLAY		SILT
	BOULDERS OR COBBLES		LIMESTONE		BEDROCK (UNKNOWN)
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GROUND WATER ELEVATION

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- ▼ END OF DRILLING
- ▼ AFTER DRILLING

ABBREVIATIONS

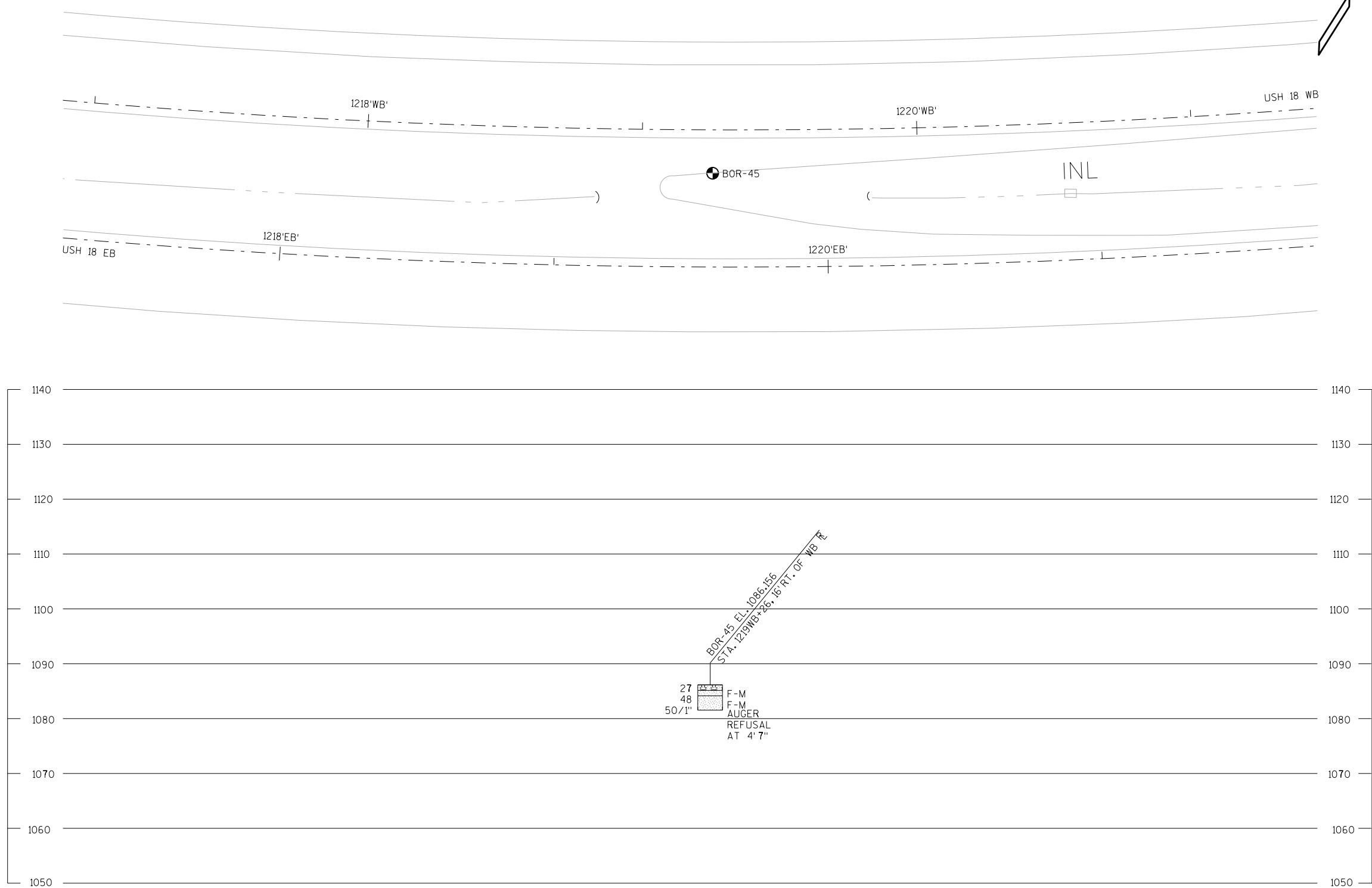
F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

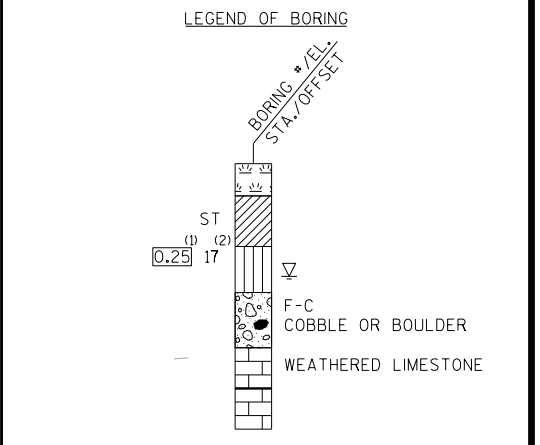
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
45	12/11/2019	166914	418026

BORINGS COMPLETED BY: AET
 REPORT COMPLETED BY: WISDOT
 ALL COORDINATES REFERENCED TO WCCS NAD 83(91) IOWA COUNTY
 COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT



MATERIAL SYMBOLS

	ASPHALT		TOPSOIL		PEAT
	CONCRETE		FILL		GRAVEL
	SAND		CLAY		SILT
	BOULDERS OR COBBLES		LIMESTONE		BEDROCK (UNKNOWN)
	SHALE		SANDSTONE		IGNEOUS/META



⁽¹⁾ UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)
⁽²⁾ UNLESS OTHERWISE SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

 AT TIME OF DRILLING

 END OF DRILLING

 AFTER DRILLING

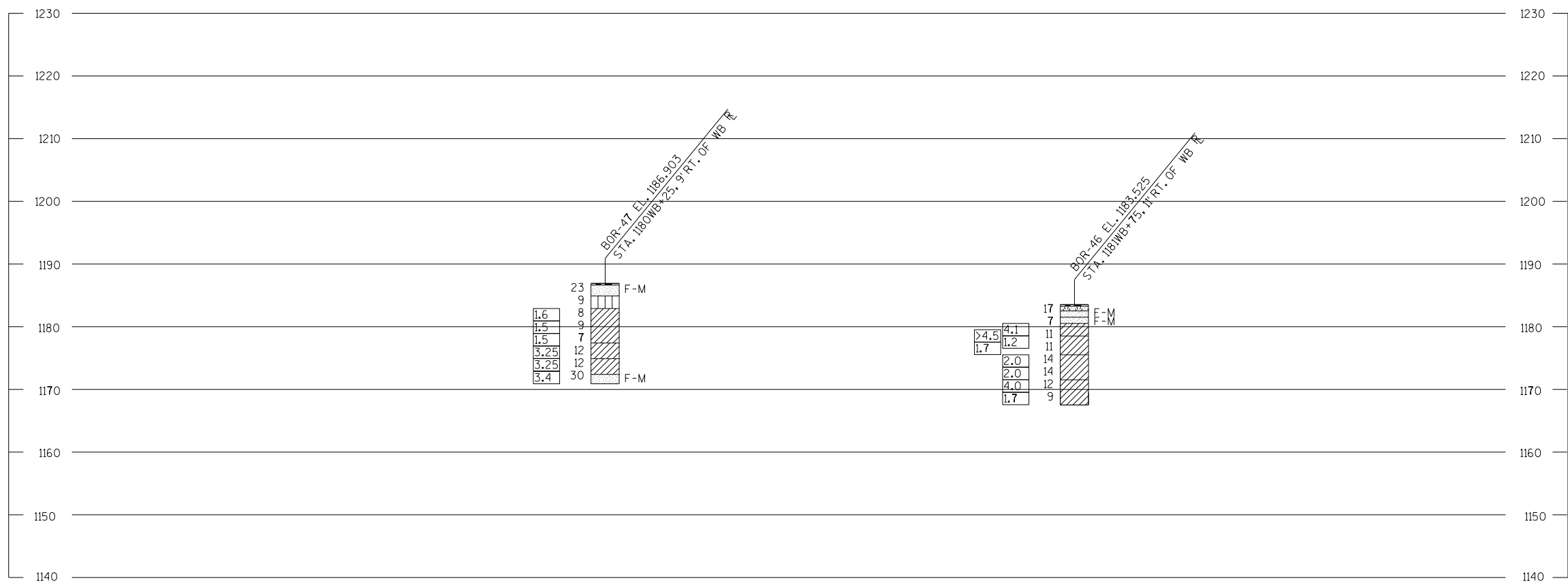
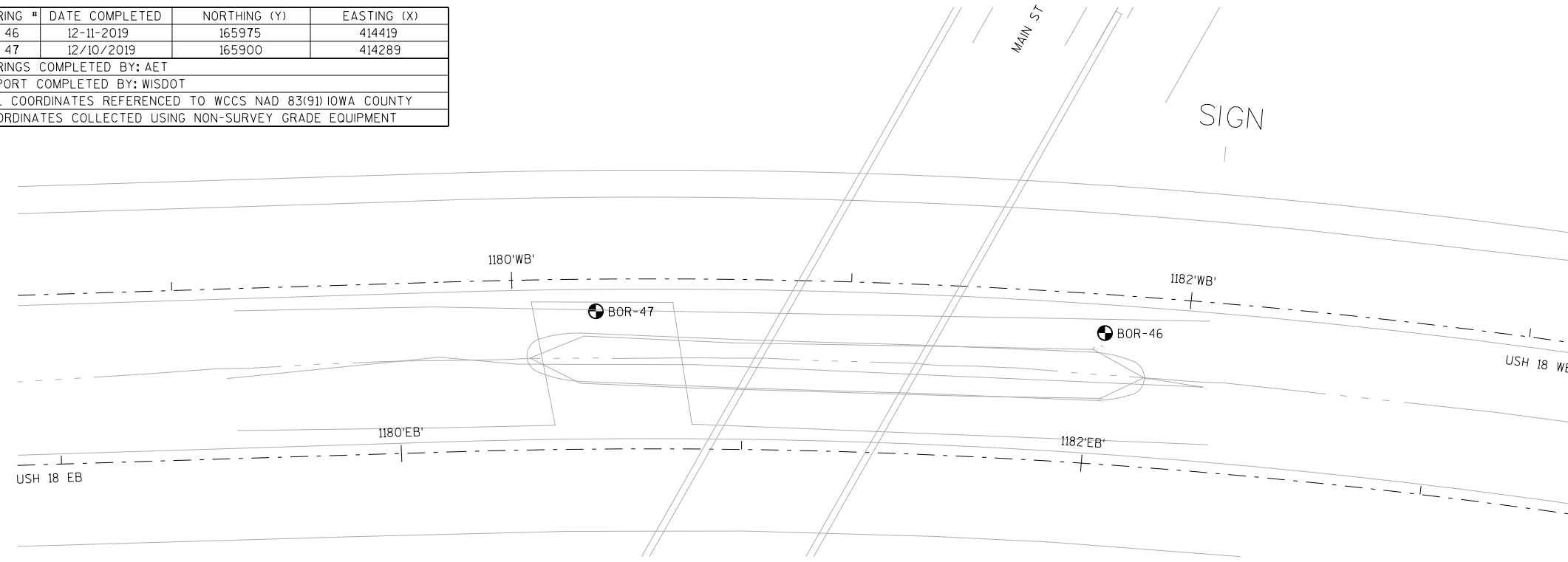
ABBREVIATIONS
 F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

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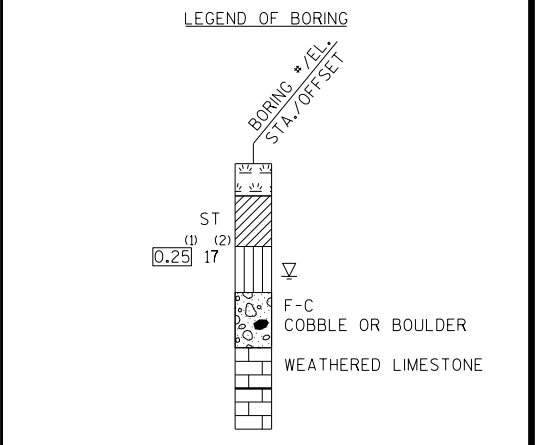
BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
46	12-11-2019	165975	414419
47	12/10/2019	165900	414289

BORINGS COMPLETED BY: AET
 REPORT COMPLETED BY: WISDOT
 ALL COORDINATES REFERENCED TO WCCS NAD 83(91) IOWA COUNTY
 COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT



MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/META



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)
 (2) UNLESS OTHERWISE SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

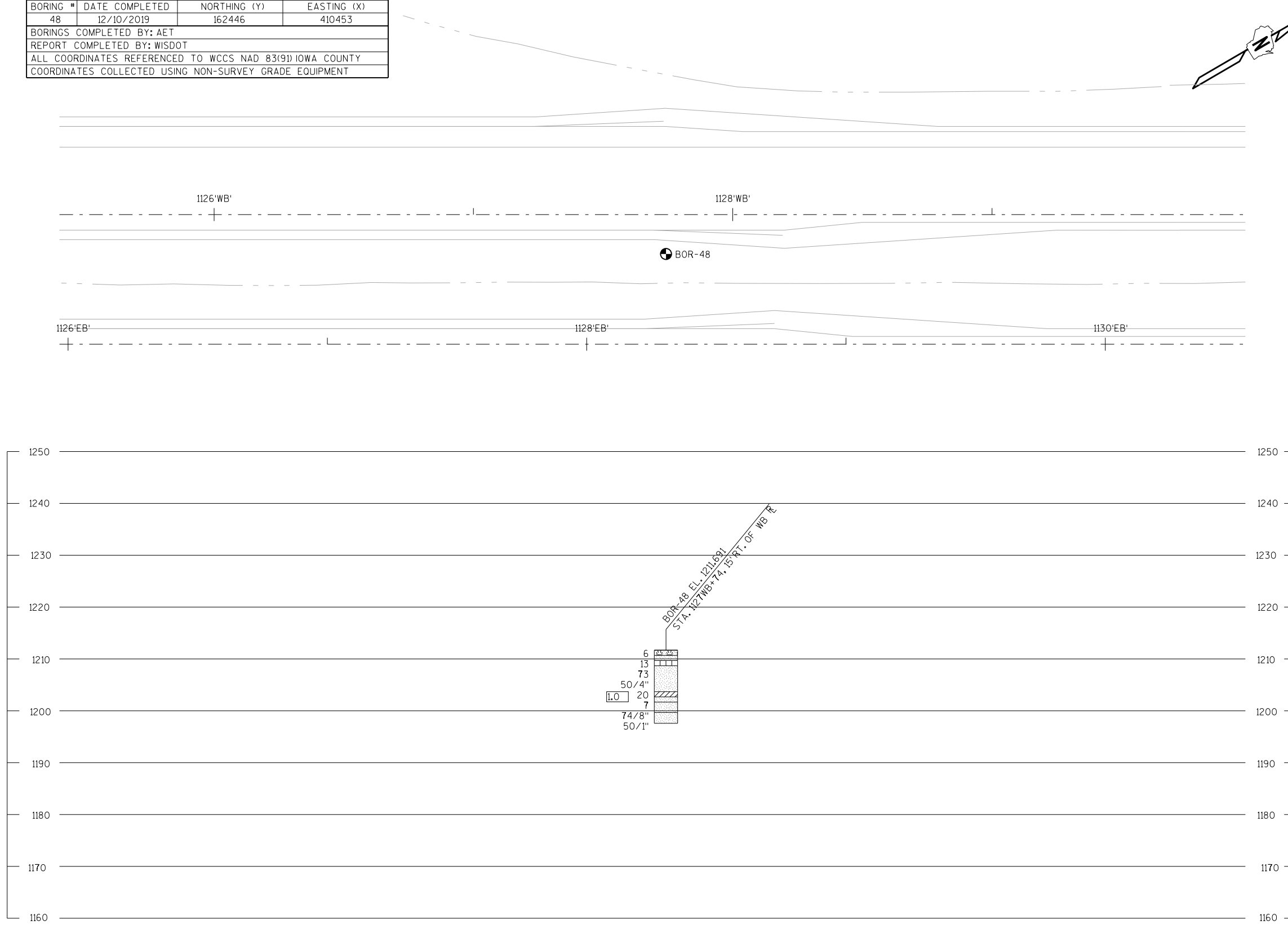
GROUND WATER ELEVATION
 ▽ AT TIME OF DRILLING
 ▽ END OF DRILLING
 ▽ AFTER DRILLING

ABBREVIATIONS
 F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

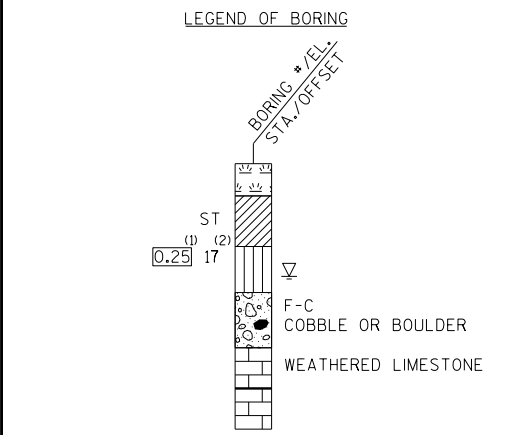
BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
48	12/10/2019	162446	410453
BORINGS COMPLETED BY: AET			
REPORT COMPLETED BY: WISDOT			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) IOWA COUNTY			
COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT			



MATERIAL SYMBOLS

	ASPHALT		TOPSOIL		PEAT
	CONCRETE		FILL		GRAVEL
	SAND		CLAY		SILT
	BOULDERS OR COBBLES		LIMESTONE		BEDROCK (UNKNOWN)
	SHALE		SANDSTONE		IGNEOUS/META



GROUND WATER ELEVATION

▽ AT TIME OF DRILLING
 ▼ END OF DRILLING
 ▽ AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

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Estimate Of Quantities

1204-05-76

Line	Item	Item Description	Unit	Total	Qty
0002	203.0100	Removing Small Pipe Culverts	EACH	1.000	1.000
0004	213.0100	Finishing Roadway (project) 01. 1204-05-76	EACH	1.000	1.000
0006	305.0110	Base Aggregate Dense 3/4-Inch	TON	8,561.000	8,561.000
0008	611.0430	Reconstructing Inlets	EACH	30.000	30.000
0010	613.1100.S	Cable Barrier Type 1	LF	45,255.000	45,255.000
0012	613.1200.S	Cable Barrier End Terminal Type 1	EACH	44.000	44.000
0014	618.0100	Maintenance And Repair of Haul Roads (project) 01. 1204-05-76	EACH	1.000	1.000
0016	619.1000	Mobilization	EACH	1.000	1.000
0018	624.0100	Water	MGAL	128.000	128.000
0020	625.0105	Topsoil	CY	4,029.000	4,029.000
0022	625.0500	Salvaged Topsoil	SY	1,262.000	1,262.000
0024	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000
0026	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0028	628.2004	Erosion Mat Class I Type B	SY	48,784.000	48,784.000
0030	628.7005	Inlet Protection Type A	EACH	45.000	45.000
0032	628.7504	Temporary Ditch Checks	LF	10,434.000	10,434.000
0034	628.7555	Culvert Pipe Checks	EACH	53.000	53.000
0036	629.0210	Fertilizer Type B	CWT	66.900	66.900
0038	630.0120	Seeding Mixture No. 20	LB	3,258.000	3,258.000
0040	630.0200	Seeding Temporary	LB	1,085.000	1,085.000
0042	630.0500	Seed Water	MGAL	1,354.000	1,354.000
0044	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	10.000	10.000
0046	638.2102	Moving Signs Type II	EACH	10.000	10.000
0048	638.3000	Removing Small Sign Supports	EACH	10.000	10.000
0050	642.5201	Field Office Type C	EACH	1.000	1.000
0052	643.0300	Traffic Control Drums	DAY	24,149.000	24,149.000
0054	643.0420	Traffic Control Barricades Type III	DAY	1,637.000	1,637.000
0056	643.0705	Traffic Control Warning Lights Type A	DAY	3,274.000	3,274.000
0058	643.0715	Traffic Control Warning Lights Type C	DAY	2,960.000	2,960.000
0060	643.0800	Traffic Control Arrow Boards	DAY	317.000	317.000
0062	643.0900	Traffic Control Signs	DAY	3,560.000	3,560.000
0064	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0066	643.4100.S	Traffic Control Interim Lane Closure	EACH	20.000	20.000
0068	643.5000	Traffic Control	EACH	1.000	1.000
0070	646.1555	Marking Line Grooved Contrast Permanent Tape 4-Inch	LF	1,320.000	1,320.000
0072	646.9010	Marking Removal Line Water Blasting 4-Inch	LF	1,320.000	1,320.000
0074	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	5,150.000	5,150.000
0076	650.9910	Construction Staking Supplemental Control (project) 01. 1204-05-76	LS	1.000	1.000

Estimate Of Quantities

1204-05-76

Line	Item	Item Description	Unit	Total	Qty
0078	650.9920	Construction Staking Slope Stakes	LF	47,455.000	47,455.000
0080	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000
0082	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
0084	SPV.0090	Special 01. Construction Staking, Cable Barrier	LF	47,455.000	47,455.000
0086	SPV.0105	Special 01. Cable Barrier Replacement Parts, Dane County	LS	1.000	1.000
0088	SPV.0105	Special 02. Cable Barrier Replacement Parts, Iowa County	LS	1.000	1.000

**203.0100
REMOVING SMALL PIPE CULVERTS**

CATEGORY	STATION	TO	STATION	LOCATION	SIZE	TYPE	EACH
0010	1891+57 EB	-	1892+58 EB	USH 18	18"	CMCP	1
TOTAL:							1

**213.0100
FINISHING ROADWAY (01. 1204-05-76)**

CATEGORY	LOCATION	EACH
0010	PROJECT LIMITS	1
TOTAL:		1

**619.1000
MOBILIZATION**

CATEGORY	LOCATION	EACH
0010	PROJECT 1204-05-76	1
TOTAL:		1

**611.0430
RECONSTRUCTING INLETS**

CATEGORY	STATION	O/S	ROADWAY	EACH	COMMENTS
0010	1143+12 WB	RT	USH 18	1	INLET MEDIAN 2 GRATE
0010	1198+76 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1209+75 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1266+93 EB	LT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1317+95 EB	LT	USH 18	1	INLET MEDIAN 2 GRATE
0010	1323+49 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1338+64 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1524+70 EB	LT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1537+44 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1547+27 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1564+88 EB	LT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1573+29 EB	LT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1601+15 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1769+46 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1782+18 EB	LT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1809+17 EB	LT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1815+88 EB	LT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1828+20 EB	LT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1836+15 EB	LT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1863+65 EB	LT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1870+20 EB	LT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1890+42 WB	RT	USH 18	1	INLET MEDIAN 2 GRATE
0010	1902+31 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1922+81 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1933+96 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010			UNDISTRIBUTED	5	
TOTAL:				30	

**618.0100
MAINTENANCE AND REPAIR OF HAUL ROADS**

CATEGORY	LOCATION	EACH
0010	PROJECT 1204-05-76	1
TOTAL:		1

**624.0100
WATER**

CATEGORY	LOCATION	USE	MGAL
0010	PROJECT 1204-05-76	BASE PLACEMENT	128
TOTAL:			128

BASE AGGREGATE ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	TON
0010	1127+75 WB	-	1219+25 WB	USH 18 (RT)	885
0010	1225+10 WB	-	1232+85 WB	USH 18 (RT)	84
0010	1233+50 WB	-	1257+00 WB	USH 18 (RT)	357
0010	1258+75 EB	-	1283+75 EB	USH 18 (LT)	810
0010	1284+75 EB	-	1288+25 EB	USH 18 (LT)	70
0010	1289+00 EB	-	1292+75 EB	USH 18 (LT)	113
0010	1293+50 WB	-	1313+00 WB	USH 18 (RT)	316
0010	1315+00 EB	-	1323+00 EB	USH 18 (LT)	423
0010	1323+50 WB	-	1339+00 WB	USH 18 (RT)	338
0010	1499+50 WB	-	1518+00 WB	USH 18 (RT)	157
0010	1519+50 EB	-	1525+00 EB	USH 18 (LT)	56
0010	1526+00 WB	-	1558+75 WB	USH 18 (RT)	362
0010	1559+50 WB	-	1563+00 WB	USH 18 (RT)	45
0010	1564+50 EB	-	1581+00 EB	USH 18 (LT)	211
0010	1581+50 WB	-	1616+50 WB	USH 18 (RT)	349
0010	1762+20 WB	-	1775+75 WB	USH 18 (RT)	250
0010	1777+50 EB	-	1796+25 EB	USH 18 (LT)	401
0010	1797+25 EB	-	1810+75 EB	USH 18 (LT)	405
0010	1811+50 EB	-	1880+10 EB	USH 18 (LT)	1,175
0010	1881+10 WB	-	1894+75 WB	USH 18 (RT)	247
0010	1898+00 WB	-	1912+00 WB	USH 18 (RT)	242
0010	1912+75 WB	-	1935+50 WB	USH 18 (RT)	484
0010	-	-	-	UNDISTRIBUTED	778
TOTALS:					8,561

CABLE BARRIER

CATEGORY	STATION	TO	STATION	O/S	ROADWAY	613.1100.S CABLE BARRIER TYPE 1 LF	613.1200.S CABLE BARRIER END TERMINAL TYPE 1 EACH
0010	1127+75 WB	-	1219+25 WB	15' RT.	USH 18	9,050	2
0010	1225+10 WB	-	1232+85 WB	15' RT.	USH 18	675	2
0010	1233+50 WB	-	1257+00 WB	15' RT.	USH 18	2,250	2
0010	1258+75 EB	-	1283+75 EB	15' LT.	USH 18	2,400	2
0010	1284+75 EB	-	1288+25 EB	15' LT.	USH 18	250	2
0010	1289+00 EB	-	1292+75 EB	15' LT.	USH 18	275	2
0010	1293+50 WB	-	1313+00 WB	15' RT.	USH 18	1,850	2
0010	1315+00 EB	-	1323+00 EB	15' LT.	USH 18	700	2
0010	1323+50 WB	-	1339+00 WB	15' RT.	USH 18	1,450	2
0010	1499+50 WB	-	1518+00 WB	15' RT.	USH 18	1,750	2
0010	1519+50 EB	-	1525+00 EB	15' LT.	USH 18	450	2
0010	1526+00 WB	-	1558+75 WB	15' RT.	USH 18	3,175	2
0010	1559+50 WB	-	1563+00 WB	15' RT.	USH 18	250	2
0010	1564+50 EB	-	1581+00 EB	15' LT.	USH 18	1,550	2
0010	1581+50 WB	-	1616+50 WB	15' RT.	USH 18	3,400	2
0010	1762+20 WB	-	1775+75 WB	15' RT.	USH 18	1,255	2
0010	1777+50 EB	-	1796+25 EB	15' LT.	USH 18	1,775	2
0010	1797+25 EB	-	1810+75 EB	15' LT.	USH 18	1,250	2
0010	1811+50 EB	-	1880+10 EB	15' LT.	USH 18	6,760	2
0010	1881+10 WB	-	1894+75 WB	15' RT.	USH 18	1,265	2
0010	1898+00 WB	-	1912+00 WB	15' RT.	USH 18	1,300	2
0010	1912+75 WB	-	1935+50 WB	15' RT.	USH 18	2,175	2
TOTAL:						45,255	44

NOTE: END TERMINAL PAY LIMITS ARE SEPARATE FROM THE OVERALL CABLE BARRIER PAY LIMITS. LENGTH OF CABLE BARRIER END TERMINAL VARIES. ACTUAL LENGTH OF CABLE BARRIER END TERMINAL TO BE DETERMINED BY MANUFACTURER AND ENGINEER. EACH CABLE BARRIER END TERMINAL WAS ESTIMATED TO BE 50' IN LENGTH FOR PURPOSES OF CALCULATING CABLE BARRIER QUANTITIES.

PROJECT NO: 1204-05-76

HWY: USH 18

COUNTY: IOWA & DANE

MISCELLANEOUS QUANTITIES

SHEET

E

MOBILIZATION FOR EROSION CONTROL

CATEGORY	LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
0010	PROJECT 1204-05-76	5	3
TOTAL:		5	3

EROSION CONTROL ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.2004 EROSION MAT CLASS I TYPE B SY
0010	1127+75 WB	-	1219+25 WB	USH 18	1,960	9	11,499
0010	1225+10 WB	-	1232+85 WB	USH 18	280	-	1,020
0010	1233+50 WB	-	1257+00 WB	USH 18	1,085	-	2,620
0010	1258+75 EB	-	1283+75 EB	USH 18	140	6	3,410
0010	1284+75 EB	-	1288+25 EB	USH 18	35	3	208
0010	1289+00 EB	-	1292+75 EB	USH 18	70	3	348
0010	1293+50 WB	-	1313+00 WB	USH 18	-	3	1,935
0010	1315+00 EB	-	1323+00 EB	USH 18	140	-	993
0010	1323+50 WB	-	1339+00 WB	USH 18	175	-	1,606
0010	1499+50 WB	-	1518+00 WB	USH 18	70	-	1,859
0010	1519+50 EB	-	1525+00 EB	USH 18	70	-	91
0010	1526+00 WB	-	1558+75 WB	USH 18	1,190	3	2,159
0010	1559+50 WB	-	1563+00 WB	USH 18	140	-	373
0010	1564+50 EB	-	1581+00 EB	USH 18	350	-	1,677
0010	1581+50 WB	-	1616+50 WB	USH 18	735	-	3,560
0010	1762+20 WB	-	1775+75 WB	USH 18	210	2	1,574
0010	1777+50 EB	-	1796+25 EB	USH 18	-	3	1,899
0010	1797+25 EB	-	1810+75 EB	USH 18	-	12	1,102
0010	1811+50 EB	-	1880+10 EB	USH 18	1,610	-	2,824
0010	1881+10 WB	-	1894+75 WB	USH 18	210	4	1,065
0010	1898+00 WB	-	1912+00 WB	USH 18	280	-	766
0010	1912+75 WB	-	1935+50 WB	USH 18	735	-	1,761
0010	UNDISTRIBUTED				949	5	4,435
TOTALS:					10,434	53	48,784

INLET PROTECTION

CATEGORY	STATION	O/S	LOCATION	628.7005 TYPE A EACH	COMMENTS
0010	1133+89 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1143+12 WB	RT	USH 18	1	INLET MEDIAN 2 GRATE
0010	1187+22 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1198+76 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1209+75 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1220+89 EB	LT	USH 18	1	INLET MEDIAN 2 GRATE
0010	1224+47 EB	LT	USH 18	1	INLET MEDIAN 2 GRATE
0010	1233+38 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1246+18 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1258+65 EB	LT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1266+93 EB	LT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1313+15 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1317+95 EB	LT	USH 18	1	INLET MEDIAN 2 GRATE
0010	1323+49 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1338+64 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1517+29 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1524+70 EB	LT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1537+44 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1547+27 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1559+41 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1564+88 EB	LT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1573+29 EB	LT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1581+44 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1601+15 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1616+21 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1769+46 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1782+18 EB	LT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1796+43 EB	LT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1809+17 EB	LT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1815+88 EB	LT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1828+20 EB	LT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1836+15 EB	LT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1863+65 EB	LT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1870+20 EB	LT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1880+24 EB	LT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1890+42 WB	RT	USH 18	1	INLET MEDIAN 2 GRATE
0010	1897+35 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1902+31 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1912+67 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1922+81 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010	1933+96 WB	RT	USH 18	1	INLET MEDIAN 1 GRATE
0010	UNDISTRIBUTED			4	
TOTALS:				45	

3

LANDSCAPING

CATEGORY	STATION	TO	STATION	LOCATION	625.0105	625.0500	629.0210	630.0120	630.0200	630.0500
					TOPSOIL	SALVAGED TOPSOIL	FERTILIZER TYPE B	SEEDING MIXTURE NO. 20	SEEDING TEMPORARY	SEED WATER
					CY	SY	CWT	LB	LB	MGAL
0010	1127+75 WB	-	1219+25 WB	USH 18	769	384	13.6	585	195	243
0010	1225+10 WB	-	1232+85 WB	USH 18	60	-	1.2	51	17	21
0010	1233+50 WB	-	1257+00 WB	USH 18	288	-	3.3	141	47	59
0010	1258+75 EB	-	1283+75 EB	USH 18	515	386	3.9	167	56	70
0010	1284+75 EB	-	1288+25 EB	USH 18	8	-	0.4	16	5	7
0010	1289+00 EB	-	1292+75 EB	USH 18	44	-	0.5	21	7	9
0010	1293+50 WB	-	1313+00 WB	USH 18	59	-	2.6	110	37	46
0010	1315+00 EB	-	1323+00 EB	USH 18	136	-	1.2	51	17	21
0010	1323+50 WB	-	1339+00 WB	USH 18	204	102	2.1	90	30	37
0010	1499+50 WB	-	1518+00 WB	USH 18	50	37	2.5	106	35	44
0010	1519+50 EB	-	1525+00 EB	USH 18	7	-	0.4	18	6	7
0010	1526+00 WB	-	1558+75 WB	USH 18	129	-	3.6	154	51	64
0010	1559+50 WB	-	1563+00 WB	USH 18	48	-	0.5	21	7	9
0010	1564+50 EB	-	1581+00 EB	USH 18	132	-	2.2	95	32	39
0010	1581+50 WB	-	1616+50 WB	USH 18	283	-	4.7	201	67	83
0010	1762+20 WB	-	1775+75 WB	USH 18	110	83	1.9	83	28	35
0010	1777+50 EB	-	1796+25 EB	USH 18	112	84	2.5	107	36	44
0010	1797+25 EB	-	1810+75 EB	USH 18	104	-	1.6	70	23	29
0010	1811+50 EB	-	1880+10 EB	USH 18	240	-	6.4	274	91	114
0010	1881+10 WB	-	1894+75 WB	USH 18	95	71	1.6	69	23	29
0010	1898+00 WB	-	1912+00 WB	USH 18	98	-	1.4	61	20	25
0010	1912+75 WB	-	1935+50 WB	USH 18	172	-	2.7	115	38	48
0010			UNDISTRIBUTED		366	115	6.1	652	217	271
TOTALS:					4,029	1,262	66.90	3,258	1,085	1,354

SIGNING

CATEGORY	STATION	LOCATION	SIGN MESSAGE	634.0616	638.2102	638.3000
				POSTS WOOD 4X6-INCH X 16-FT EACH	MOVING SIGNS TYPE II EACH	REMOVING SMALL SIGN SUPPORTS EACH
0010	1530+50 EB	USH 18, LT.	JCT/COUNTY K	1	1	1
0010	1774+58 EB	USH 18, LT.	FARM TRACTOR	1	1	1
0010	1775+39 EB	USH 18, LT.	DO NOT ENTER	1	1	1
0010	1777+94 EB	USH 18, LT.	DO NOT ENTER	1	1	1
0010	1779+96 EB	USH 18, LT.	WRONG WAY	1	1	1
0010	1854+53 EB	USH 18, LT.	MILE MARKER 66.0	1	1	1
0010	1907+40 EB	USH 18, LT.	MILE MARKER 67.0	1	1	1
0010	1933+81 EB	USH 18, LT.	MILE MARKER 67.5	1	1	1
0010	-	-	UNDISTRIBUTED	2	2	2
TOTALS:				10	10	10

3

CABLE BARRIER REPLACEMENT PARTS

CATEGORY	LOCATION	SPV.0105.01	SPV.0105.02
		DANE COUNTY LS	IOWA COUNTY LS
0010	PROJECT 1204-05-76	1	1
TOTAL:		1	1

TRAFFIC CONTROL SUMMARY

CATEGORY	STAGE	DURATION CALENDAR DAYS*	643.0300	643.0420	643.0705	643.0715	643.0800	643.0900	643.1050	643.4100.S	643.5000
			TRAFFIC CONTROL DRUMS DAY	TRAFFIC CONTROL BARRICADES TYPE III DAY	TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	TRAFFIC CONTROL ARROW BOARDS DAY	TRAFFIC CONTROL SIGNS PCMS DAY	TRAFFIC CONTROL INTERIM LANE CLOSURE EACH	TRAFFIC CONTROL EACH	
0010	WB LANE CLOSURE	72	12,447	788	1,576	1,152	144	1,644	7	-	-
0010	EB LANE CLOSURE	72	9,507	700	1,400	1,539	144	1,592	7	-	-
0010	UNDISTRIBUTED		2,195	149	298	269	29	324	-	-	-
0010	PROJECT 1204-05-76		-	-	-	-	-	-	-	20	1
TOTALS:			24,149	1,637	3,274	2,960	317	3,560	14	20	1

* FOR INFORMATION ONLY

PROJECT NO: 1204-05-76

HWY: USH 18

COUNTY: IOWA & DANE

MISCELLANEOUS QUANTITIES

SHEET

E

PAVEMENT MARKING ITEMS

646.1555
MARKING LINE
GROOVED CONTRAST
PERMANENT TAPE
4-INCH
(WHITE)

CATEGORY	STATION	TO	STATION	LOCATION	EACH	COMMENTS
0010	1127+75 WB	-	1339+00 WB	USH 18	200	SEE S.D.D. TRAFFIC CONTROL, LANE CLOSURE
0010	1258+75 EB	-	1323+00 EB	USH 18	200	SEE S.D.D. TRAFFIC CONTROL, LANE CLOSURE
0010	1499+50 WB	-	1616+50 WB	USH 18	200	SEE S.D.D. TRAFFIC CONTROL, LANE CLOSURE
0010	1519+50 EB	-	1581+00 EB	USH 18	200	SEE S.D.D. TRAFFIC CONTROL, LANE CLOSURE
0010	1762+20 WB	-	1935+50 WB	USH 18	200	SEE S.D.D. TRAFFIC CONTROL, LANE CLOSURE
0010	1777+50 EB	-	1880+10 EB	USH 18	200	SEE S.D.D. TRAFFIC CONTROL, LANE CLOSURE
0010	UNDISTRIBUTED				120	-
TOTALS:					1,320	

TEMPORARY PAVEMENT MARKING

646.9010 649.0150
MARKING REMOVAL TEMPORARY MARKING LINE
LINE WATER REMOVABLE TAPE 4-INCH
BLASTING 4-INCH (YELLOW)

CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	REMARKS
0010	1127+75 WB	-	1339+00 WB	USH 18	200	780	SEE S.D.D. TRAFFIC CONTROL, LANE CLOSURE
0010	1258+75 EB	-	1323+00 EB	USH 18	200	780	SEE S.D.D. TRAFFIC CONTROL, LANE CLOSURE
0010	1499+50 WB	-	1616+50 WB	USH 18	200	780	SEE S.D.D. TRAFFIC CONTROL, LANE CLOSURE
0010	1519+50 EB	-	1581+00 EB	USH 18	200	780	SEE S.D.D. TRAFFIC CONTROL, LANE CLOSURE
0010	1762+20 WB	-	1935+50 WB	USH 18	200	780	SEE S.D.D. TRAFFIC CONTROL, LANE CLOSURE
0010	1777+50 EB	-	1880+10 EB	USH 18	200	780	SEE S.D.D. TRAFFIC CONTROL, LANE CLOSURE
0010	UNDISTRIBUTED				120	470	
TOTALS:					1,320	5,150	

CONSTRUCTION STAKING

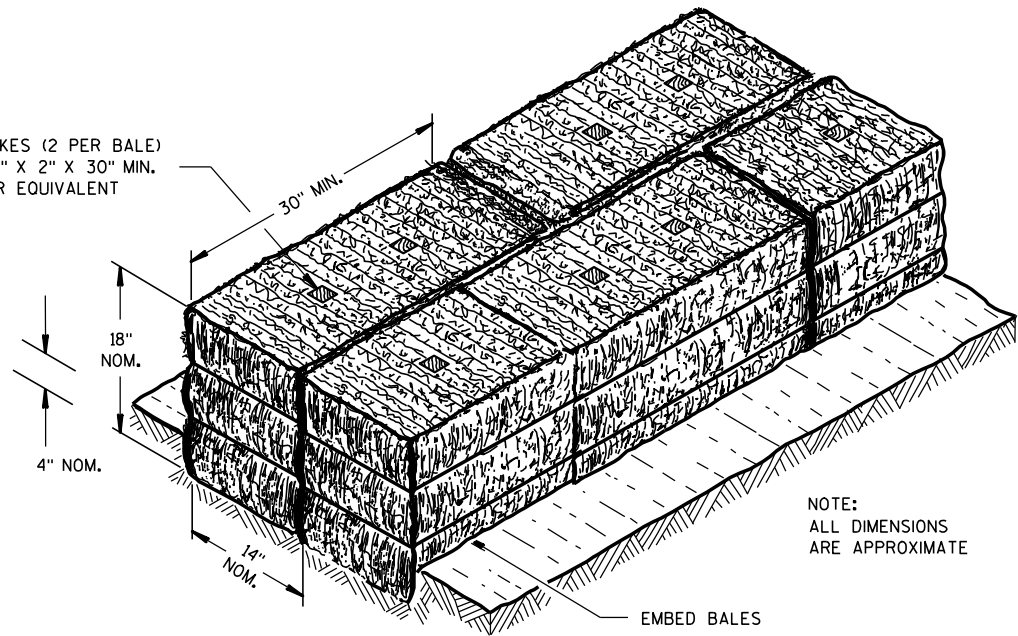
650.9910 650.9920 SPV.0090.01
SUPPLEMENTAL
CONTROL SLOPE CABLE
01. 1204-05-76 STAKES BARRIER

CATEGORY	STATION	TO	STATION	LOCATION	LS	LF	LF
0010	1127+75 WB	-	1219+25 WB	USH 18	-	9,150	9,150
0010	1225+10 WB	-	1232+85 WB	USH 18	-	775	775
0010	1233+50 WB	-	1257+00 WB	USH 18	-	2,350	2,350
0010	1258+75 EB	-	1283+75 EB	USH 18	-	2,500	2,500
0010	1284+75 EB	-	1288+25 EB	USH 18	-	350	350
0010	1289+00 EB	-	1292+75 EB	USH 18	-	375	375
0010	1293+50 WB	-	1313+00 WB	USH 18	-	1,950	1,950
0010	1315+00 EB	-	1323+00 EB	USH 18	-	800	800
0010	1323+50 WB	-	1339+00 WB	USH 18	-	1,550	1,550
0010	1499+50 WB	-	1518+00 WB	USH 18	-	1,850	1,850
0010	1519+50 EB	-	1525+00 EB	USH 18	-	550	550
0010	1526+00 WB	-	1558+75 WB	USH 18	-	3,275	3,275
0010	1559+50 WB	-	1563+00 WB	USH 18	-	350	350
0010	1564+50 EB	-	1581+00 EB	USH 18	-	1,650	1,650
0010	1581+50 WB	-	1616+50 WB	USH 18	-	3,500	3,500
0010	1762+20 WB	-	1775+75 WB	USH 18	-	1,355	1,355
0010	1777+50 EB	-	1796+25 EB	USH 18	-	1,875	1,875
0010	1797+25 EB	-	1810+75 EB	USH 18	-	1,350	1,350
0010	1811+50 EB	-	1880+10 EB	USH 18	-	6,860	6,860
0010	1881+10 WB	-	1894+75 WB	USH 18	-	1,365	1,365
0010	1898+00 WB	-	1912+00 WB	USH 18	-	1,400	1,400
0010	1912+75 WB	-	1935+50 WB	USH 18	-	2,275	2,275
0010	PROJECT 1204-05-76					1	-
TOTALS:					1	47,455	47,455

Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E15-01	CULVERT PIPE CHECK
14B52-01A	CABLE BARRIER TYPE 1 LAYOUT
14B52-01B	CABLE BARRIER TYPE 1 LAYOUT
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15D12-08A	TRAFFIC CONTROL, LANE CLOSURE
15D15-05D	TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE
15D21-06B	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

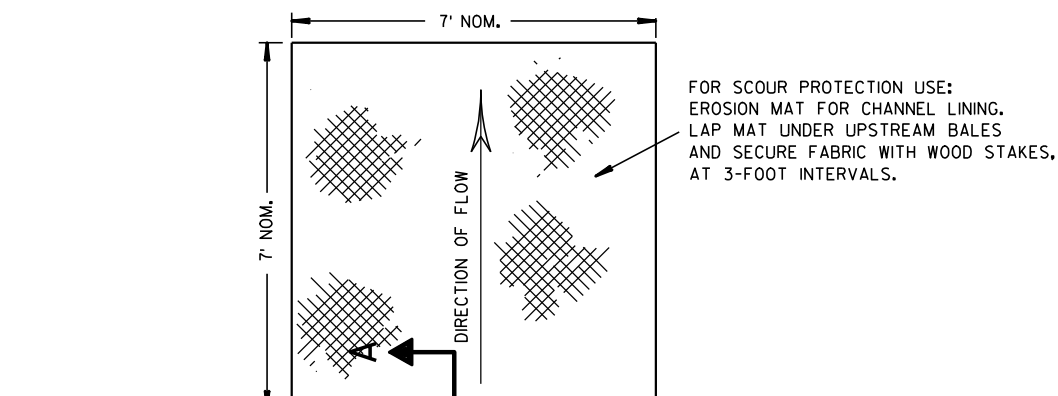
WOOD STAKES (2 PER BALE)
NOMINAL 2" X 2" X 30" MIN.
LENGTH OR EQUIVALENT



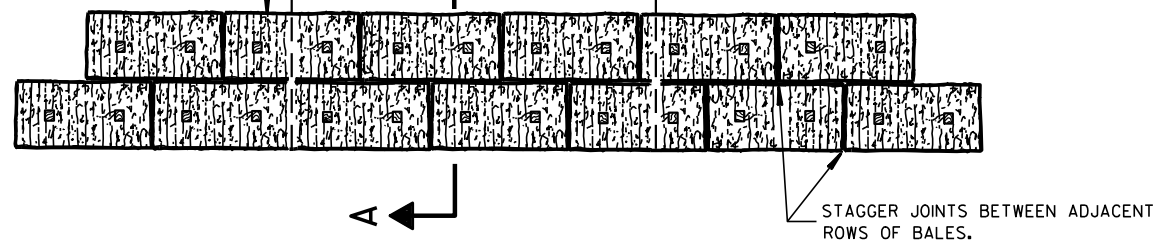
NOTE:
ALL DIMENSIONS
ARE APPROXIMATE

EMBED BALES

SECTION A-A



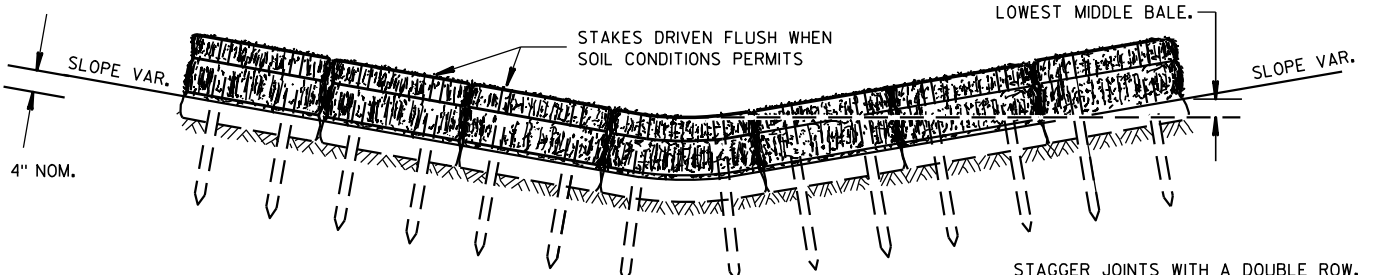
FOR SCOUR PROTECTION USE:
EROSION MAT FOR CHANNEL LINING.
LAP MAT UNDER UPSTREAM BALES
AND SECURE FABRIC WITH WOOD STAKES,
AT 3-FOOT INTERVALS.



STAGGER JOINTS BETWEEN ADJACENT
ROWS OF BALES.

PLAN VIEW

BOTTOM ELEVATION OF END BALE SHALL
BE EQUAL TO OR GREATER THAN TOP OF
LOWEST MIDDLE BALE.



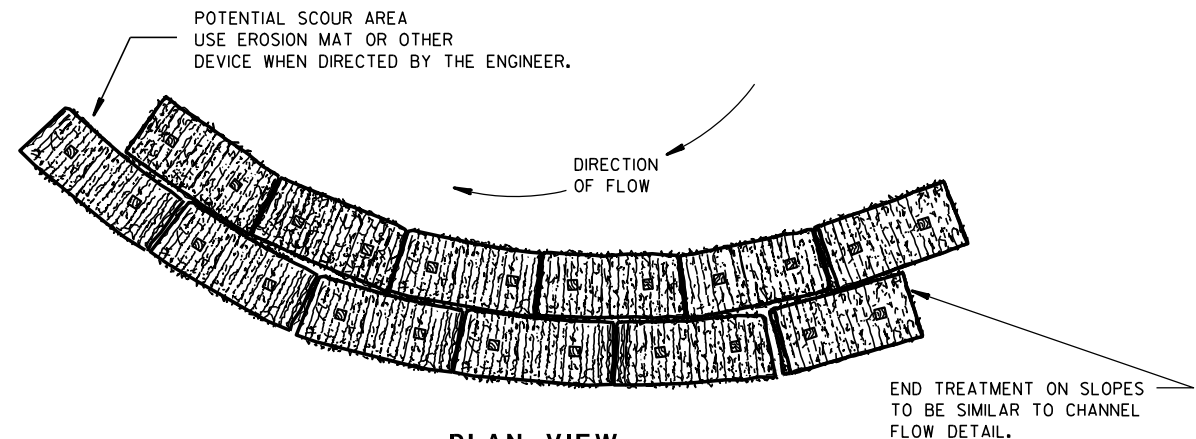
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

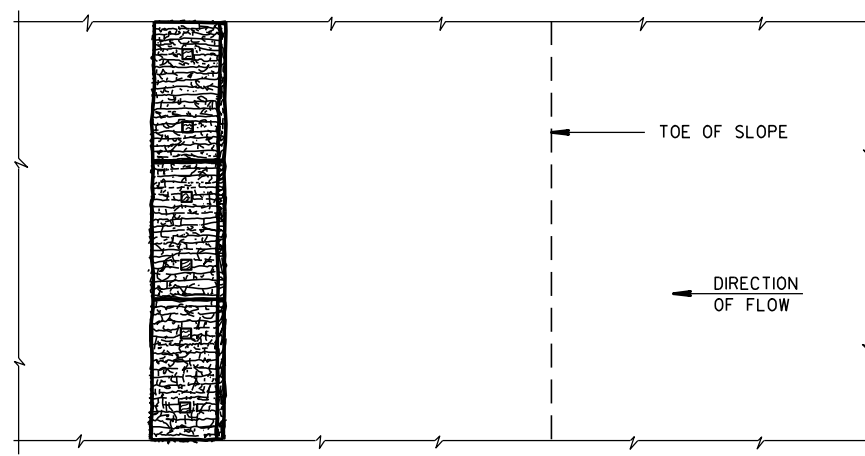
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

- ① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

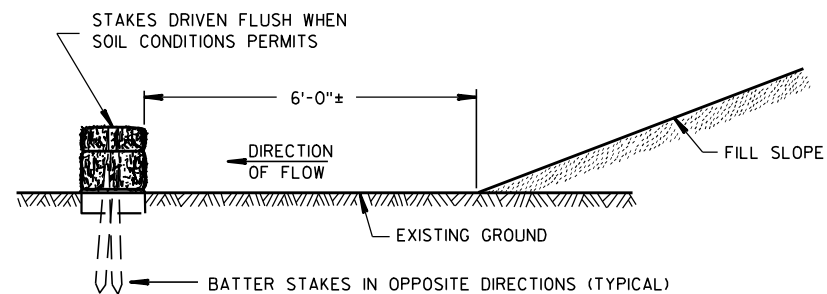


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

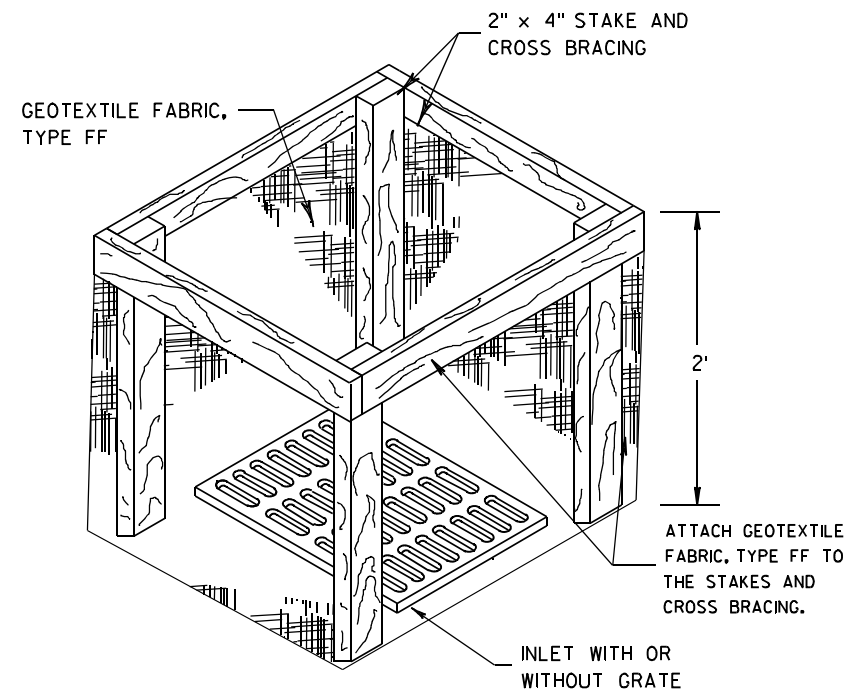
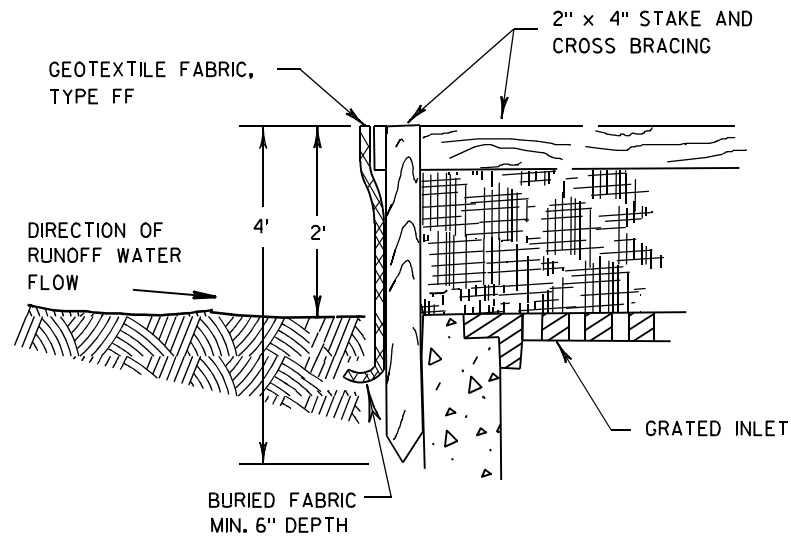
WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF
EROSION BALES / TEMPORARY
DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
 6/04/02 /S/ Beth Canestra
 DATE CHIEF ROADWAY DEVELOPMENT ENGINEER
 FHWA



INLET PROTECTION, TYPE A

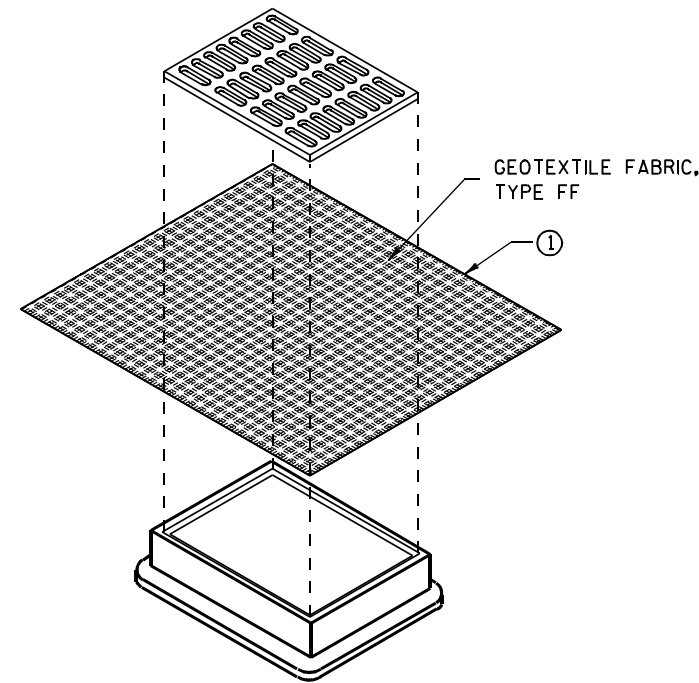
GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

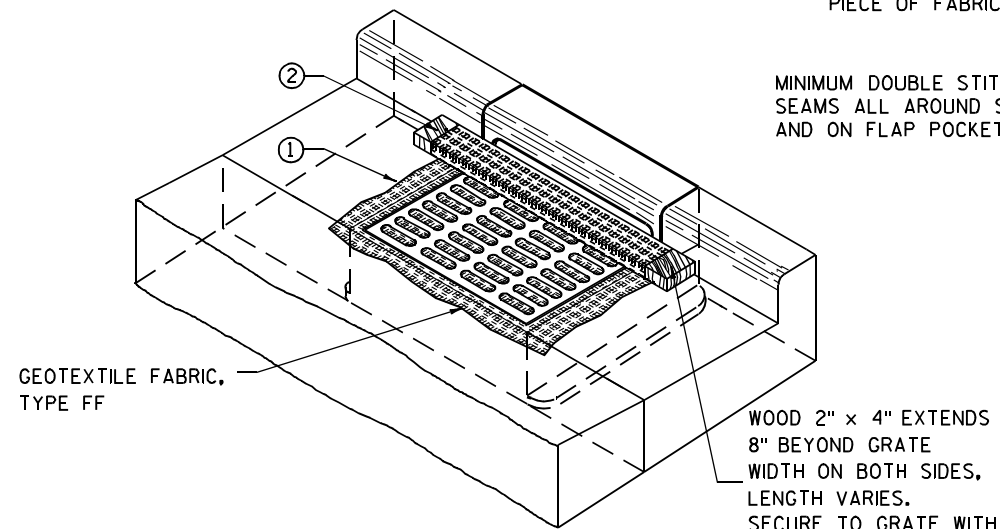
WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- ① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- ② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- ③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



**INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)**

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

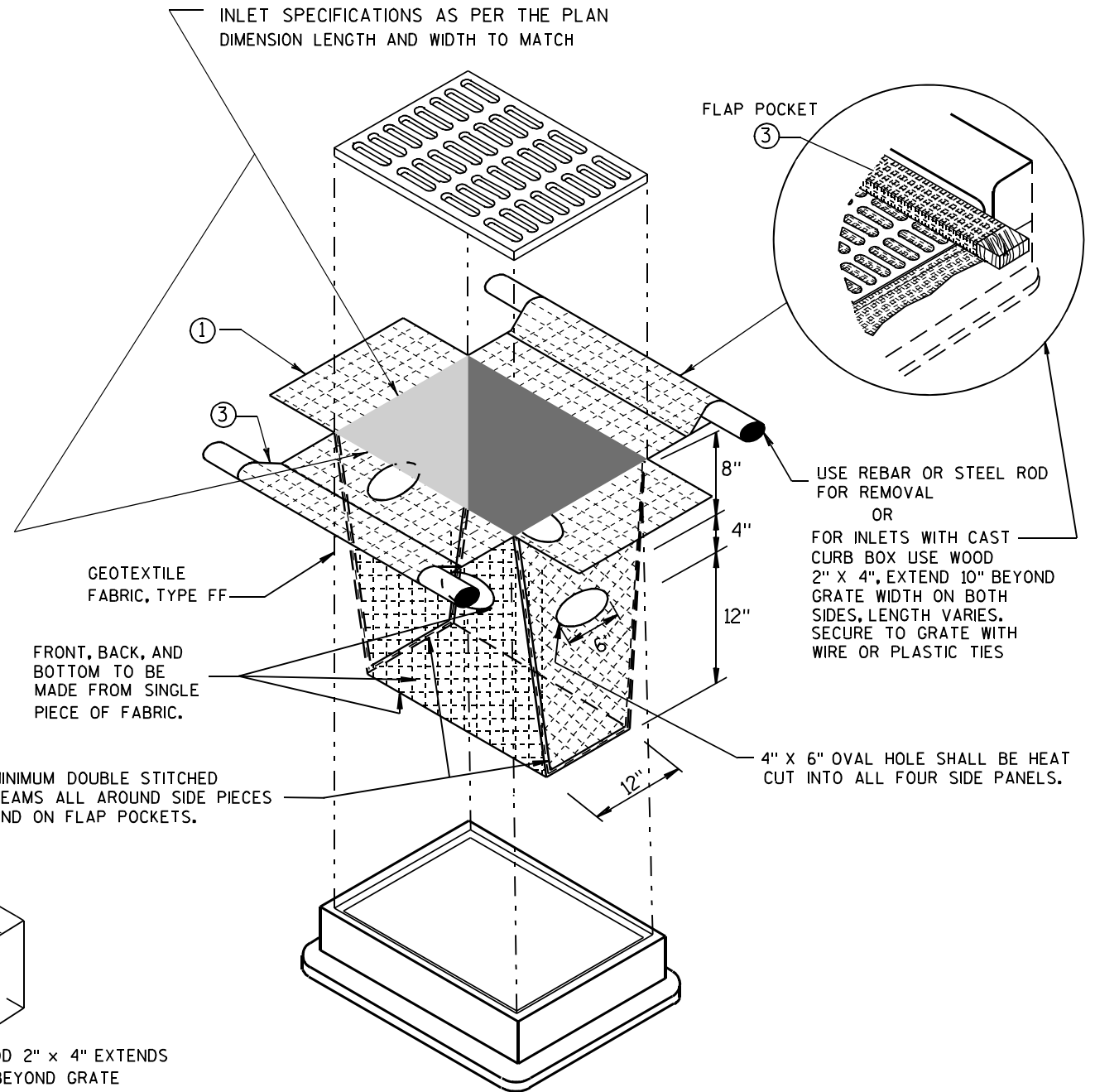
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.



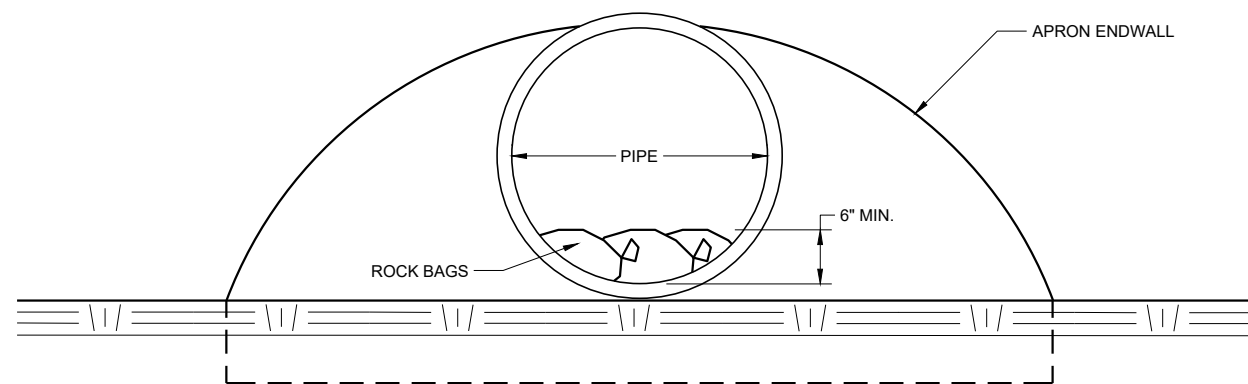
INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE ②)

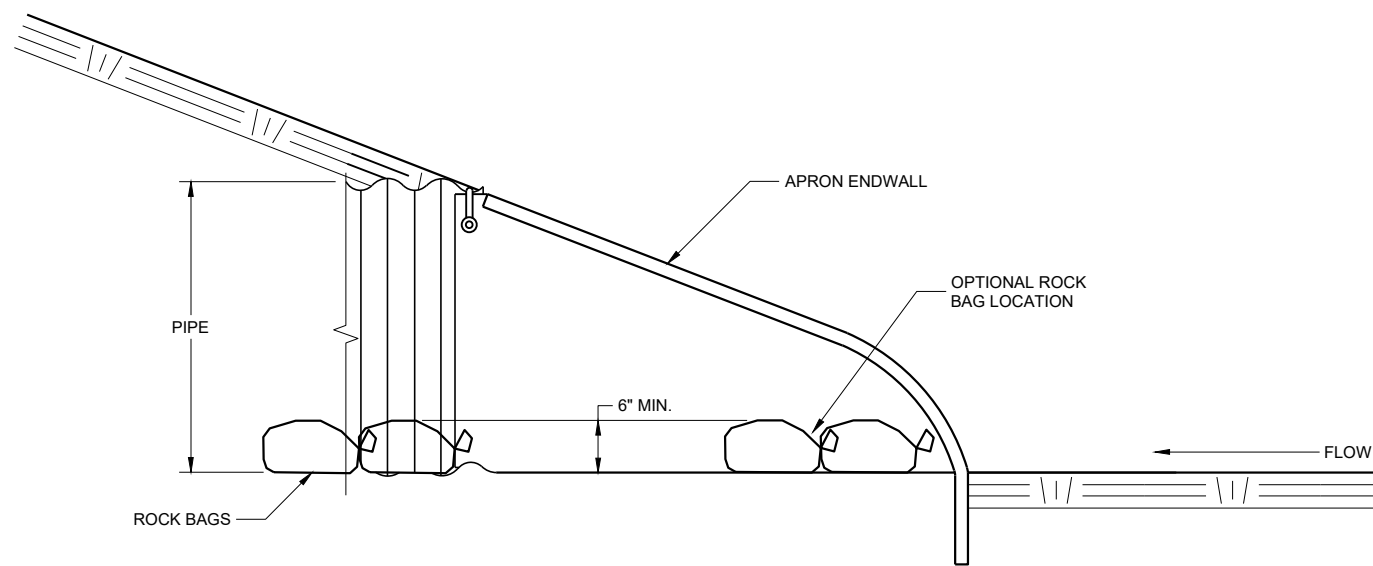
**INLET PROTECTION
TYPE A, B, C, AND D**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02 /S/ Beth Connestra
DATE
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA



END VIEW



SIDE VIEW

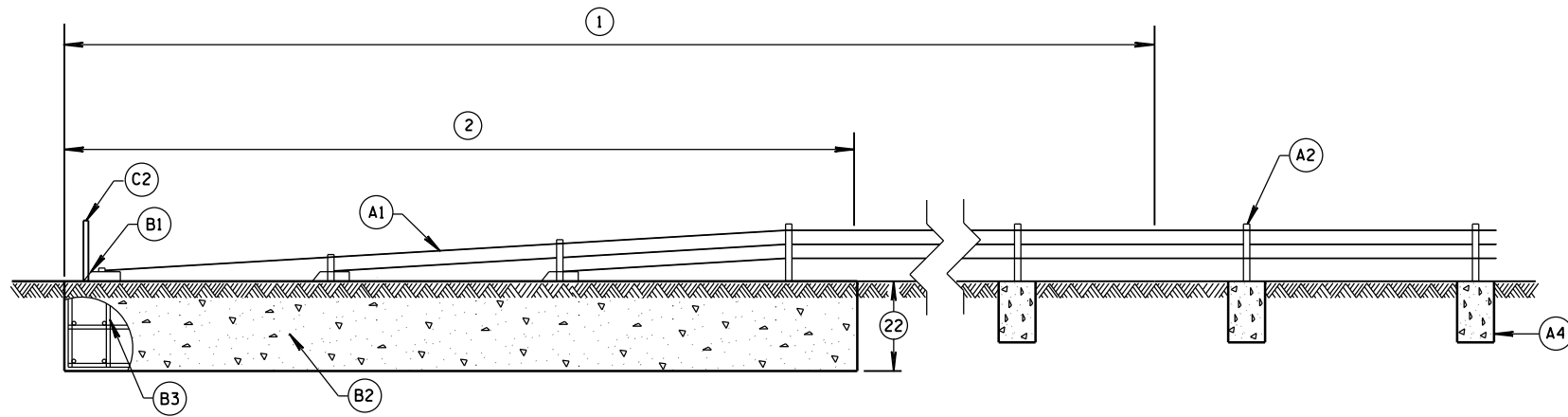
CULVERT PIPE CHECK
 (INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK

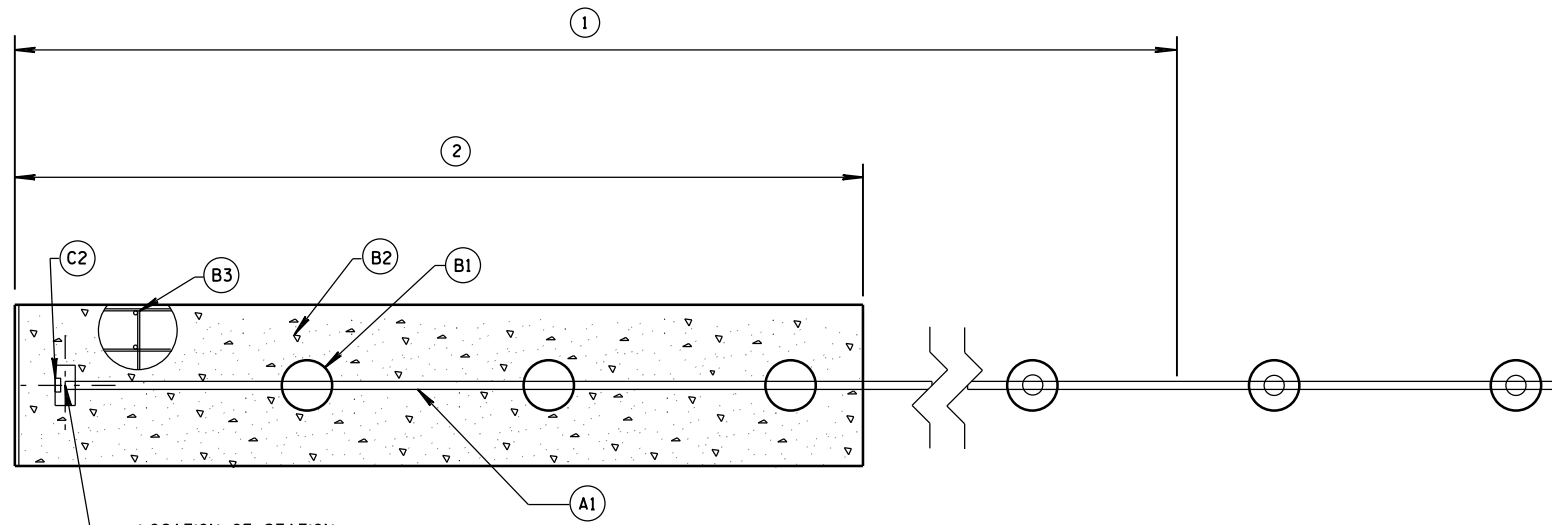
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
 May 2019 /S/ Daniel Schave
 DATE EROSION CONTROL ENGINEER

FHWA



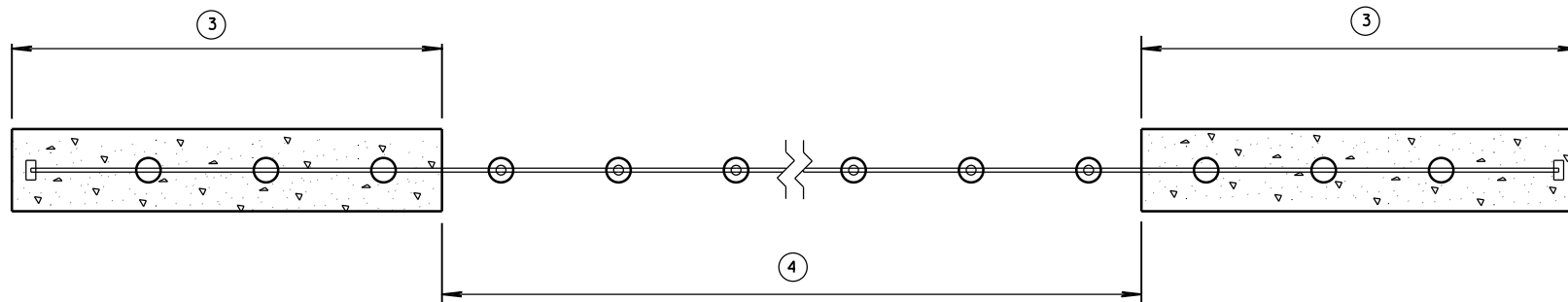
PROFILE VIEW



LOCATION OF STATION
OFFSET FOR CABLE
BARRIER END TERMINAL

PLAN VIEW

**TRANSITION FROM CABLE BARRIER
TERMINAL TO CABLE BARRIER LINE POSTS**



TYPICAL PLAN VIEW

GENERAL NOTES

- DRAWINGS ARE GENERAL IN NATURE. SEE MANUFACTURER'S INFORMATION FOR MORE DETAIL.
- PROVIDE 2 INCH CLEAR COVER FROM OUTER EDGE OF CONCRETE FOOTINGS TO REINFORCEMENT.
- INSTALL LINE POST PLUMB. LINE POSTS ARE TO BE EASILY REMOVED BY HAND AND HOLD CABLES AT THE PROPER ELEVATION.
- PROVIDE CABLE BARRIER SYSTEM FROM APPROVED PRODUCT LIST.
- PROVIDE A SYSTEM TO HAVE THE WORKING WIDTH INDICED IN PLAN.
- PROVIDE DOCUMENTATION HOW POST SPACING, RADIUS OF CURVE AND ANCHOR SPACING INFLUENCES WORKING WIDTH TO CONSTRUCTION STAFF.
- PROVIDE A WISCONSIN PROFESSIONAL ENGINEERS STAMPED ANALYSIS THAT THE LINE POST AND CABLE BARRIER END TERMINAL FOOTINGS ARE DESIGNED FOR THE SOIL CONDITIONS PRESENT. THE WISCONSIN P.E. STAMP ANALYSIS IS TO INCLUDE, BUT IS NOT LIMITED TO: DESIGN IMPACT LOADS, FOUNDATION DESIGN METHODOLOGY USED, FACTORS OF SAFETY, SOIL TYPE, SOIL CONDITIONS, AND TEMPERATURE RANGES.
- DESIGN LINE POST FOOTINGS SO THAT LINE POST FOOTING MOVE LESS THAN 1 INCH WHEN LINE POST IS IMPACTED BY A TL-3 SMALL CAR.

BILL OF MATERIALS

PART NUMBER	QTY.	DESCRIPTION	MATERIALS SPECIFICATIONS
(A1)	3 OR 4	3/4" 3x7 PRESTRECHED GALVANIZED STEEL WIRE ROPE	ASTM A741 MIN. BREAKING STRENGTH 39,000 LBS. AASHTO M30 TYPE 1 CLASS A (GALVANATION). MINIMUM WIRE ROPE MODULUS OF ELASTICITY OF 19,000 PSI ACCORDING TO ISO 12067-202 WIRE ROPE MODULUS OF ELASTICITY "INITIAL" (AS MANUFACTURED), WITH NO BEDDING OR PRESTRECHING OF THE ROPE PERMITTED DURING TESTING.
(A2)	1 PER LINE POST	GALVANIZED REMOVABLE STEEL LINE POST	SEE MANUFACTURER'S INFORMATION ON DIMENSIONS AND MATERIAL REQUIREMENTS. ASTM A123 (GALVANIZATION).
(A3)	1 PER LINE POST	GALVANIZED METAL SLEEVE	SEE MANUFACTURER'S INFORMATION ON DIMENSIONS AND MATERIAL REQUIREMENTS. ASTM A123 (GALVANIZATION).
(A4)	VARIABLES	CONCRETE FOR LINE POST FOOTING	A, A-FA.A-T, OR A-IP OF STANDARD SPECIFICATION 501.2 OR AS MANUFACTURER SPECIFIES. STANDARD SPECIFICATION 716 OMP FOR CLASS II ANCILLARY CONCRETE. SEE MANUFACTURER'S INFORMATION ON DIMENSIONS.
(A5)	VARIABLES	EPOXY COATED STEEL REINFORCEMENT	STANDARD SPECIFICATION 505.
(A6)	VARIABLES	TURNBUCKLES AND OTHER CABLE CONNECTING HARDWARE	SEE MANUFACTURER'S INFORMATION ON DIMENSIONS. MINIMUM BREAKING STRENGTH OF TURNBUCKLES AND CONNECTION HARDWARE IS EQUAL TO CABLE. TURNBUCKLES AND OTHER CABLE CONNECTION HARDWARE IS FIELD SWAGED PER MANUFACTURER'S RECOMMENDATIONS AND DETAILS.
(B1)	VARIABLES	CABLE CONNECTION TO CABLE BARRIER END TERMINAL	SEE MANUFACTURER'S INFORMATION ON DIMENSIONS AND MATERIAL REQUIREMENTS.
(B2)	VARIABLES	CONCRETE FOR CABLE BARRIER END TERMINAL	A, A-FA.A-T, OR A-IP OF STANDARD SPECIFICATION 501.2. STANDARD SPECIFICATION 716 OMP FOR CLASS II ANCILLARY CONCRETE.
(B3)	VARIABLES	EPOXY COATED STEEL REINFORCEMENT	STANDARD SPECIFICATION 505.
(C1)	VARIABLES	LINE POST DELINEATOR	REFLECTIVE SHEETING TYPE SH. SEE APPROVE PRODUCT LIST YELLOW.
(C2)	VARIABLES	CABLE BARRIER END TERMINAL DELINEATOR	REFLECTIVE SHEETING TYPE SH. SEE APPROVE PRODUCT LIST OBJECT MARKER TYPE 3 PATTERN.

- ① LOCATION OF LENGTH OF NEED POINT FOR CABLE BARRIER END TERMINAL VARIES. (SEE MANUFACTURER'S INFORMATION)
- ② PAY LIMIT FOR CABLE BARRIER END TERMINAL. LENGTH OF CABLE BARRIER END TERMINAL VARIES. (SEE MANUFACTURER'S INFORMATION)
- ③ CABLE BARRIER END TERMINAL
- ④ CABLE BARRIER AND LINE POSTS

**CABLE BARRIER TYPE 1
LAYOUT**

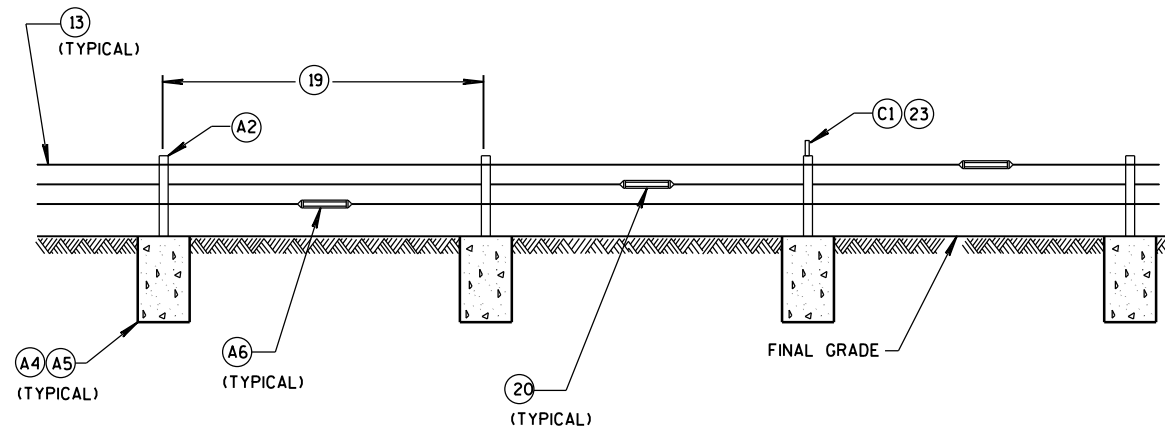
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

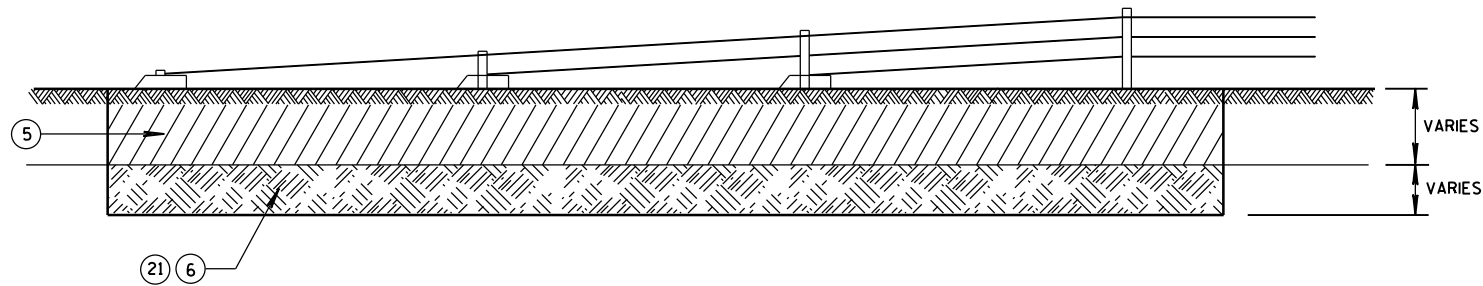
6

S.D.D. 14 B 52-1a

S.D.D. 14 B 52-1a

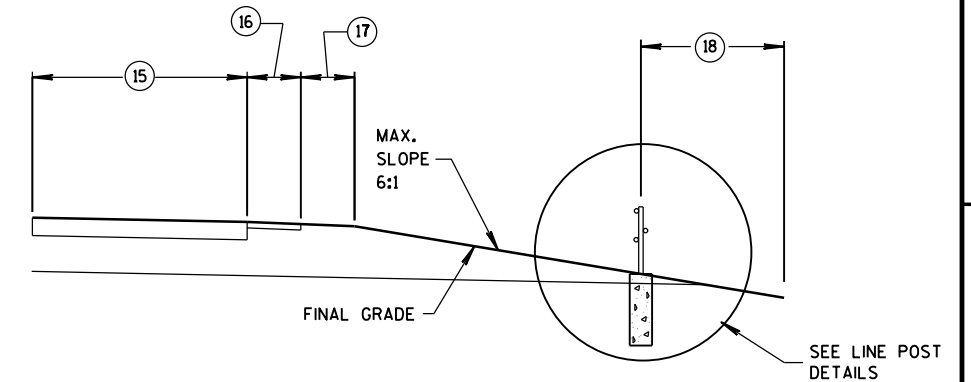


**PROFILE VIEW
LINE POST INSTALLATION**

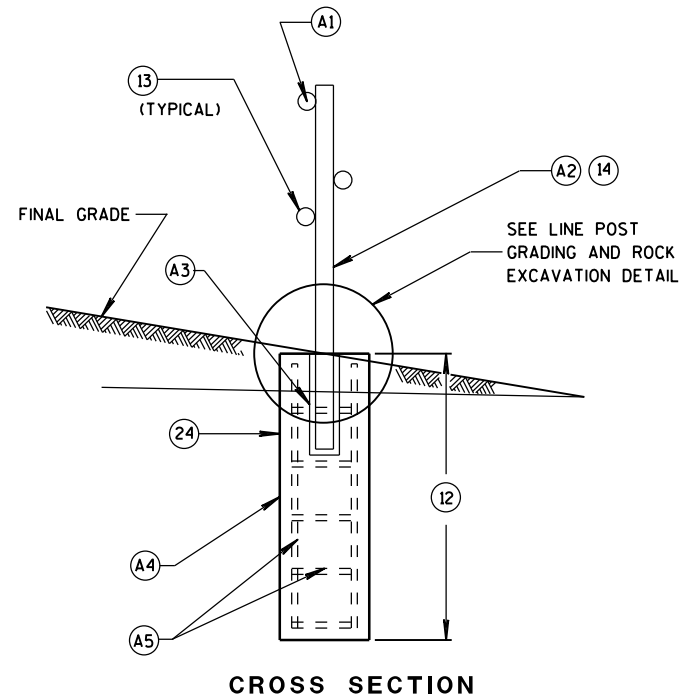


**CABLE BARRIER END
TERMINAL ROCK EXCAVATION DETAIL**

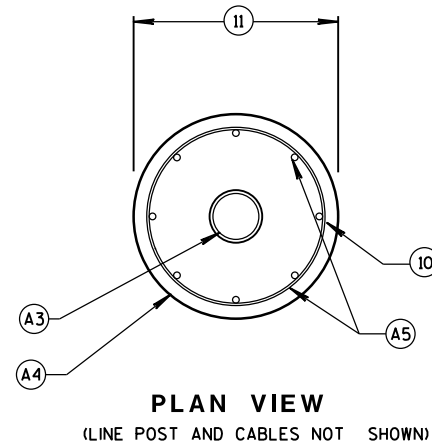
- ⑤ SOIL TO BE EXCAVATED FOR CABLE BARRIER END TERMINAL (VARIES).
- ⑥ ROCK TO BE EXCAVATED FOR CABLE BARRIER END TERMINAL (VARIES).
- ⑦ SOIL TO BE EXCAVATED FOR LINE POST (VARIES).
- ⑧ ROCK TO BE EXCAVATED FOR LINE POST (VARIES).
- ⑨ EXCAVATE AND GRADE LINE FOR LINE POST FOOTINGS. INSTALL LINE POST FOOTING TO MINIMIZE 4 INCH TALL OBJECT ON 5 FOOT CHORD.
- ⑩ 2 INCHES OF CLEAR COVER FROM EDGE OF CONCRETE TO REINFORCEMENT.
- ⑪ DIAMETER OF LINE POST FOOTING VARIES. SEE MANUFACTURER'S INFORMATION.
- ⑫ MINIMUM DEPTH OF LINE POST FOOTING IS 48 INCHES IN SOIL. DEEPER FOOTINGS PER MANUFACTURER'S RECOMMENDATION ARE ACCEPTABLE.
- ⑬ NUMBER AND LOCATION OF CABLES VARY. SEE MANUFACTURER'S INFORMATION.
- ⑭ LINE POST DIMENSIONS AND CONNECTION HARDWARE VARY. SEE MANUFACTURER'S INFORMATION.
- ⑮ LANE OF ROADWAY (VARIES). SEE PLAN FOR MORE INFORMATION.
- ⑯ PAVED SHOULDER (VARIES). SEE PLAN FOR MORE INFORMATION.
- ⑰ GRAVEL SHOULDER (VARIES). SEE PLAN FOR MORE INFORMATION.
- ⑱ CABLE BARRIER OFFSET FROM CENTERLINE OF MEDIAN DITCH (8 FOOT MINIMUM). SEE PLAN FOR MORE INFORMATION.
- ⑲ MAXIMUM POST SPACING IS 15 FEET.
- ⑳ STAGGER TURNBUCKLES (TYPICAL).
- ㉑ SEE MANUFACTURER'S DESIGN WHEN ROCK IS ENCOUNTERED.
- ㉒ IN SOIL MINIMUM DEPTH OF CABLE BARRIER END TERMINAL FOOTING IS 60 INCHES. DEEPER FOOTINGS PER MANUFACTURER'S RECOMMENDATION ARE ACCEPTABLE.
- ㉓ LINE POST DELINEATOR SPACING IS 100 FEET.
- ㉔ LINE POST FOOTINGS ARE REQUIRED TO HAVE LESS THAN 1 INCH OF MOVEMENT WHEN LINE POST IS IMPACTED BY A NCHRP 350 SMALL CAR UNDER TL-3 TEST CONDITIONS.



CABLE BARRIER OFFSET FROM DITCH LINE

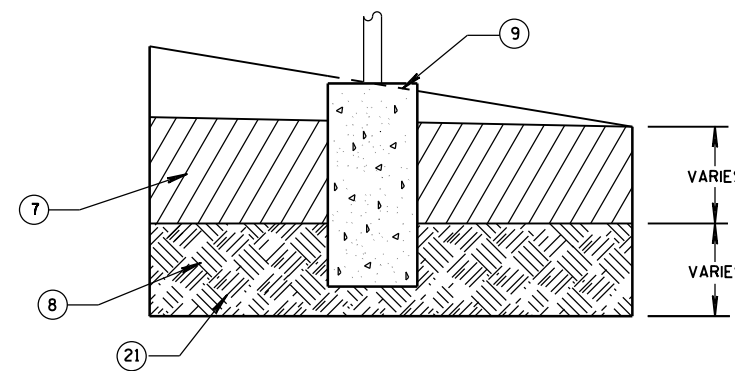


CROSS SECTION



**PLAN VIEW
(LINE POST AND CABLES NOT SHOWN)**

LINE POST DETAILS

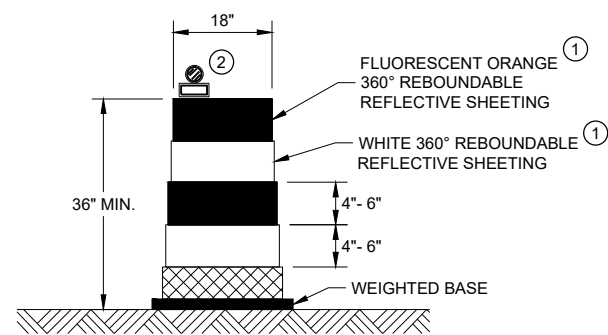


**LINE POST GRADING
AND ROCK EXCAVATION DETAIL**

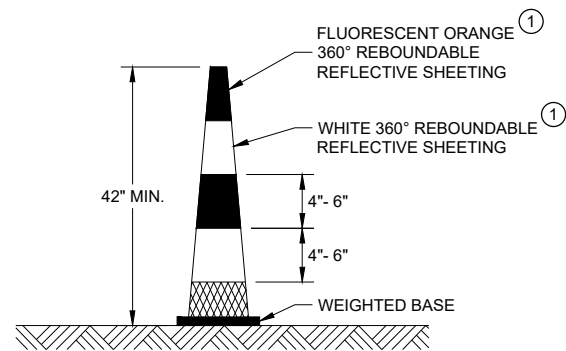
**CABLE BARRIER TYPE 1
LAYOUT**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 /S/ Jerry H. Zogg
DATE ROADWAY STANDARDS DEVELOPMENT
ENGINEER
FHWA

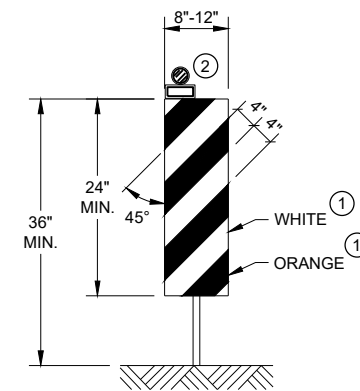


DRUM



42" CONE

DO NOT USE IN TAPERS
 1/2 SPACING OF DRUMS

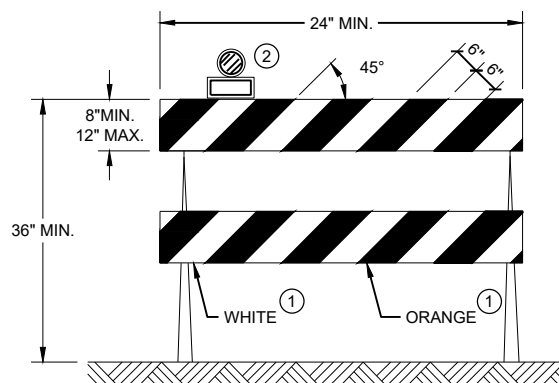


VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.

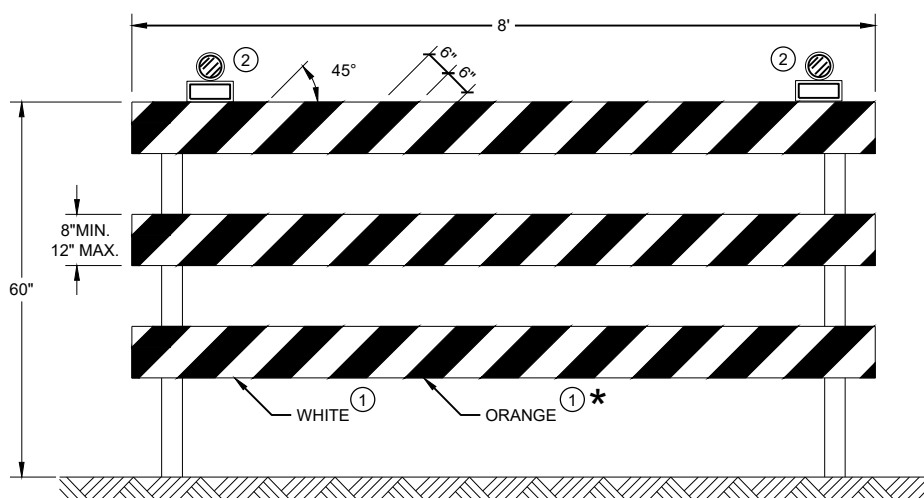
GENERAL NOTES

- ① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- ② LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
<small>FHWA</small>	

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.










WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS

NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

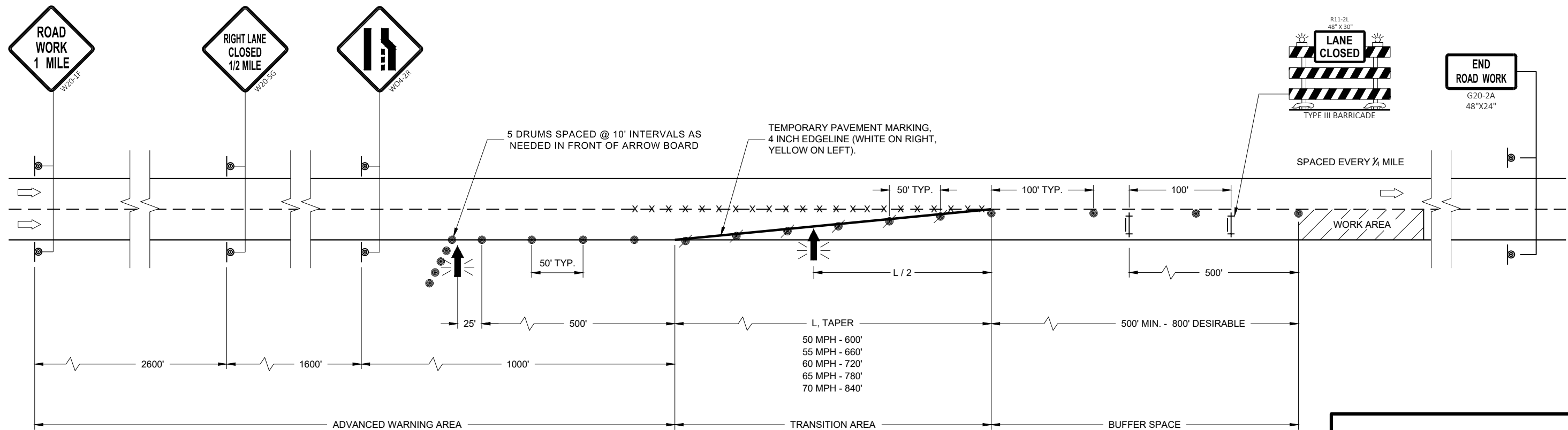
CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  TYPE "A" WARNING LIGHT (FLASHING)
-  REMOVING PAVEMENT MARKINGS
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLASHING ARROW BOARD

6

SDD 15D12 - 08a










6

SDD 15D12 - 08a

TRAFFIC CONTROL LANE CLOSURE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED February 2020 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  SIGN ON TEMPORARY SUPPORT
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  FLAGS, 16" X 16" MIN., ORANGE
-  DIRECTION OF TRAFFIC

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

YIELD SIGN AND WARNING SIGNS ON ENTRANCE RAMP ARE ALSO APPROPRIATE FOR CLOSURE OF THE MAINLINE LEFT LANE. OMIT THE YIELD SIGN IF MORE THAN ONE LANE REMAINS OPEN ON THE MAINLINE AND THE RAMP TAPER IS AT LEAST AS LONG AS THE NORMAL ENTRANCE RAMP TAPER AT THE SITE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS. USE SUPPORTS THAT PROVIDE A MINIMUM OF 5 FEET FROM THE BOTTOM OF THE SIGN TO THE PAVEMENT.

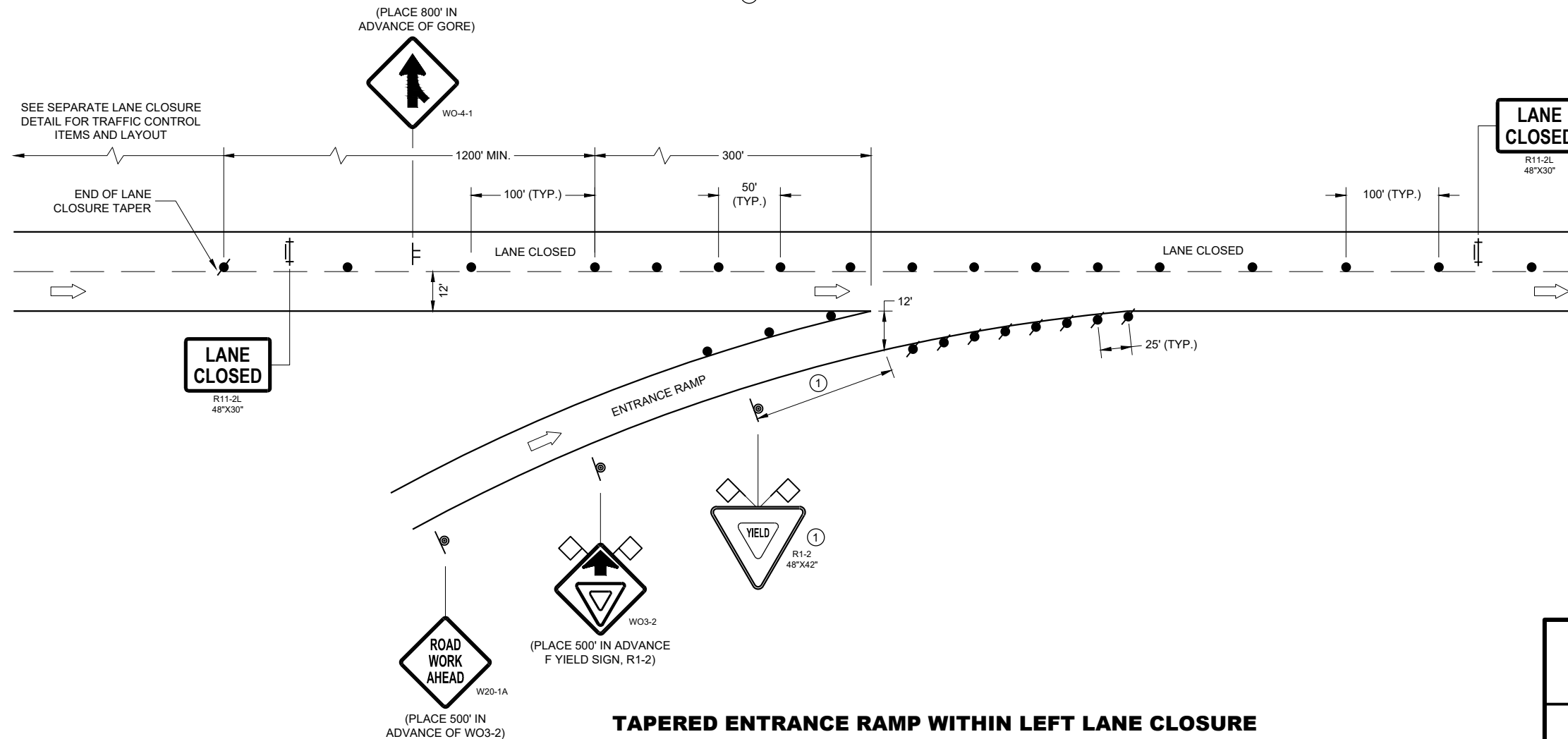
IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

- ① PLACE YIELD SIGN TO PROVIDE ADEQUATE SIGHT DISTANCE AND ACCELERATION DISTANCE.



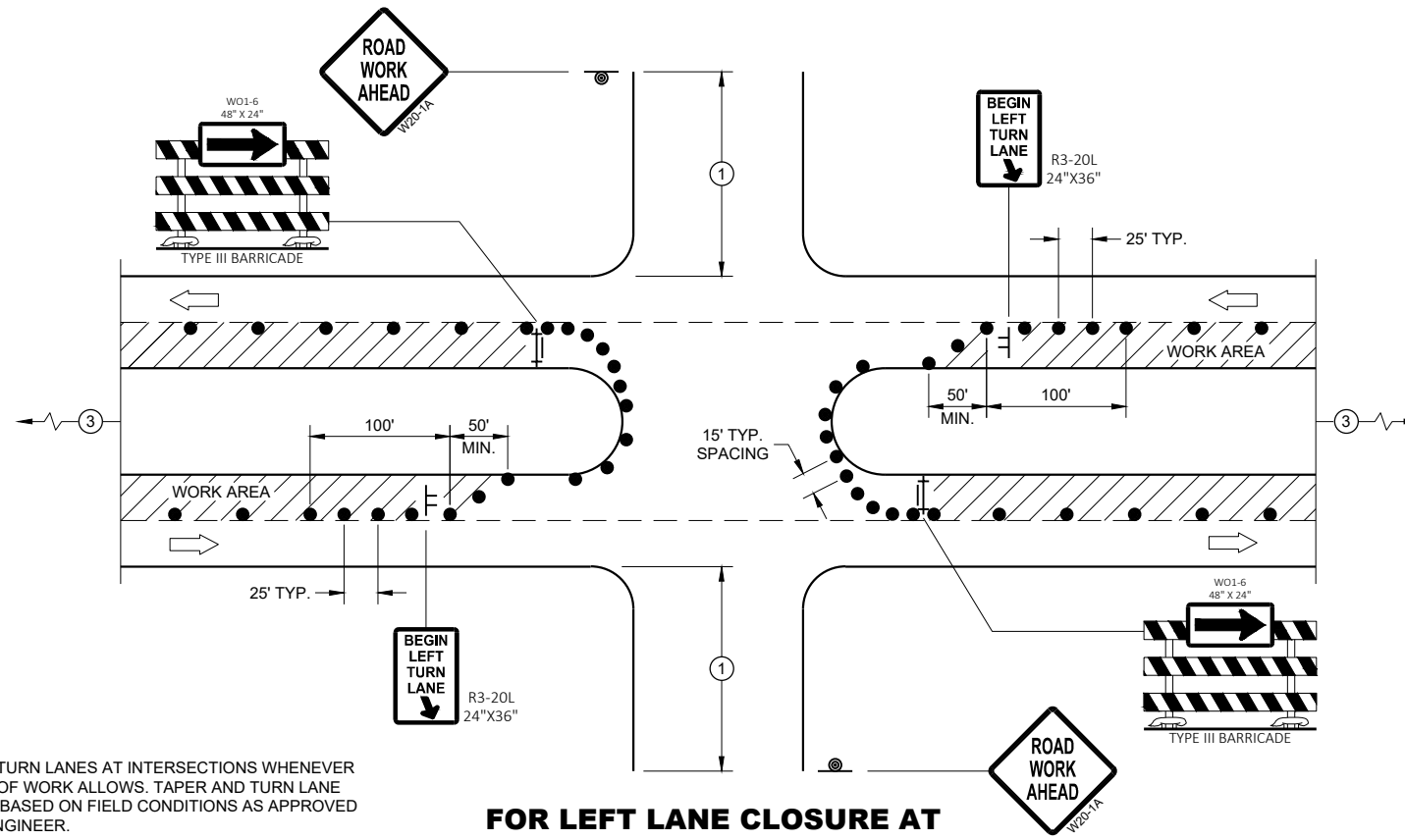
TAPERED ENTRANCE RAMP WITHIN LEFT LANE CLOSURE

**TRAFFIC CONTROL,
TAPERED ENTRANCE RAMP
WITHIN LANE CLOSURE**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA



PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

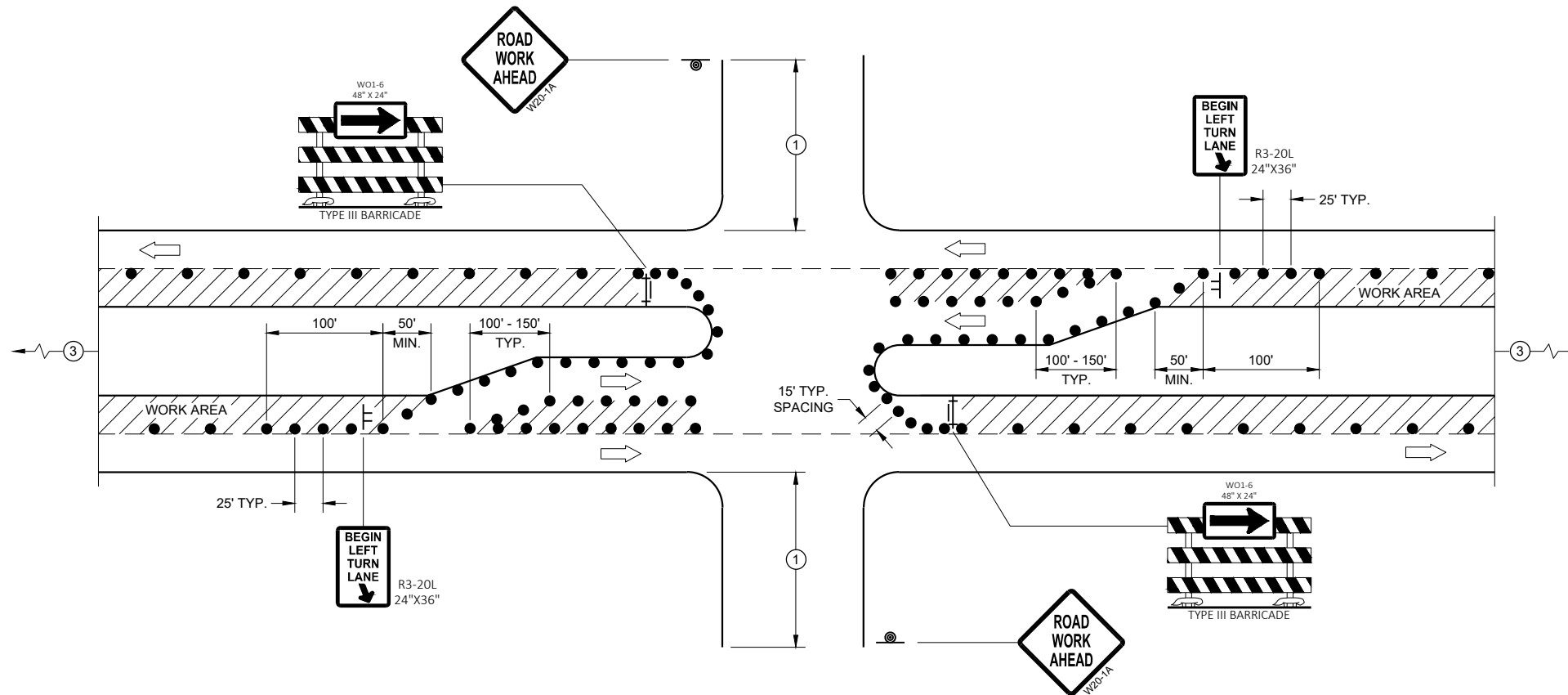
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

- ① 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.
- ② ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS
- ③ SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA



FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)

**TRAFFIC CONTROL,
INTERSECTION WITHIN SINGLE
LEFT LANE CLOSURE**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

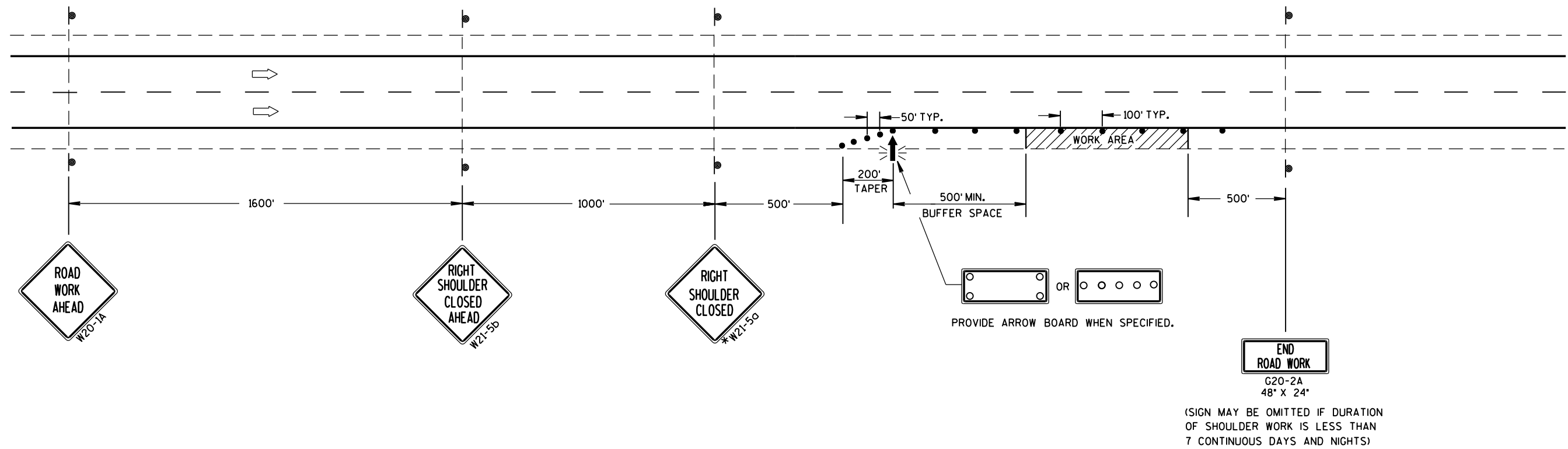
CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-50 SIGN MAY BE OMITTED.

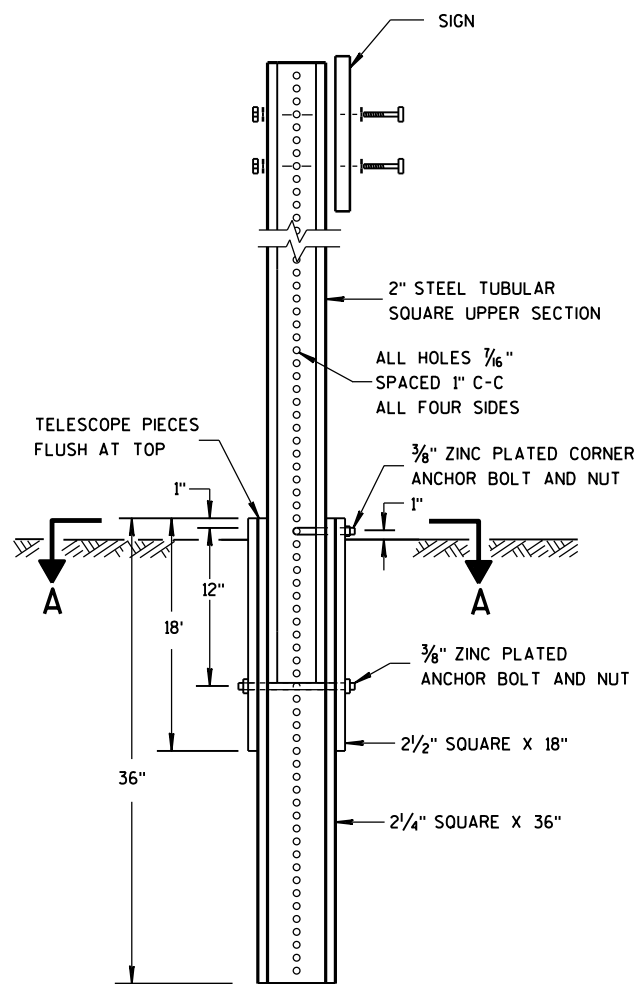
LEGEND

- TRAFFIC CONTROL DRUM
- ⊙ SIGN ON PERMANENT SUPPORT
- ➡ DIRECTION OF TRAFFIC
- ⚡➡ FLASHING ARROW BOARD
- ▨ WORK AREA

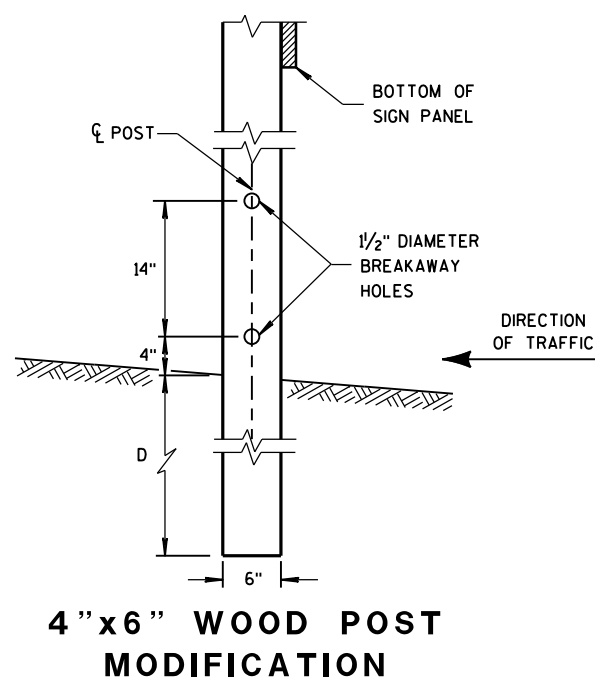
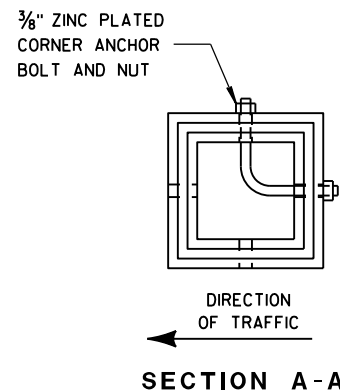


(SIGN MAY BE OMITTED IF DURATION OF SHOULDER WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS)

TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2016 DATE	/s/ Peter Amakobe Atepe STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA	



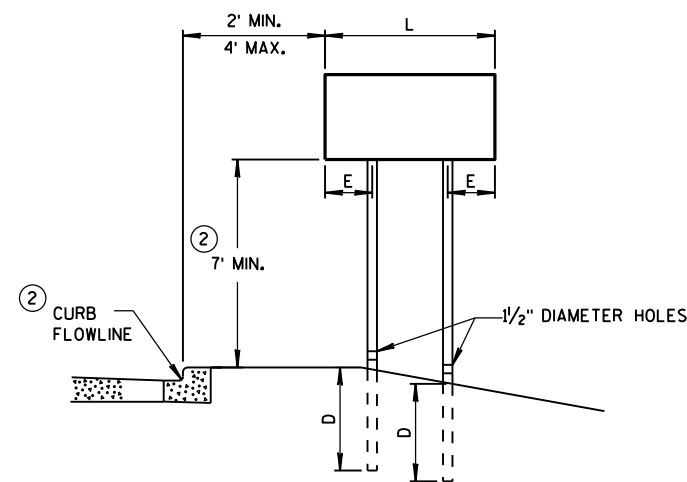
DETAIL OF TUBULAR STEEL SIGN POST



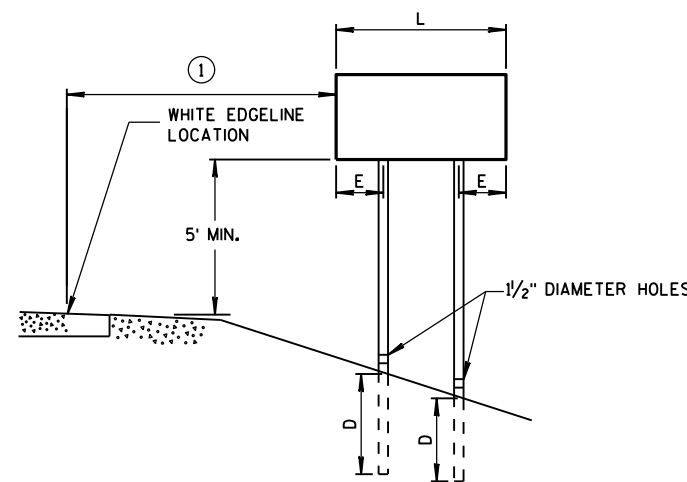
4" X 6" WOOD POST MODIFICATION

GENERAL NOTES

- ① 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.
- ② THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.
- ③ FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA



RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).
 SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

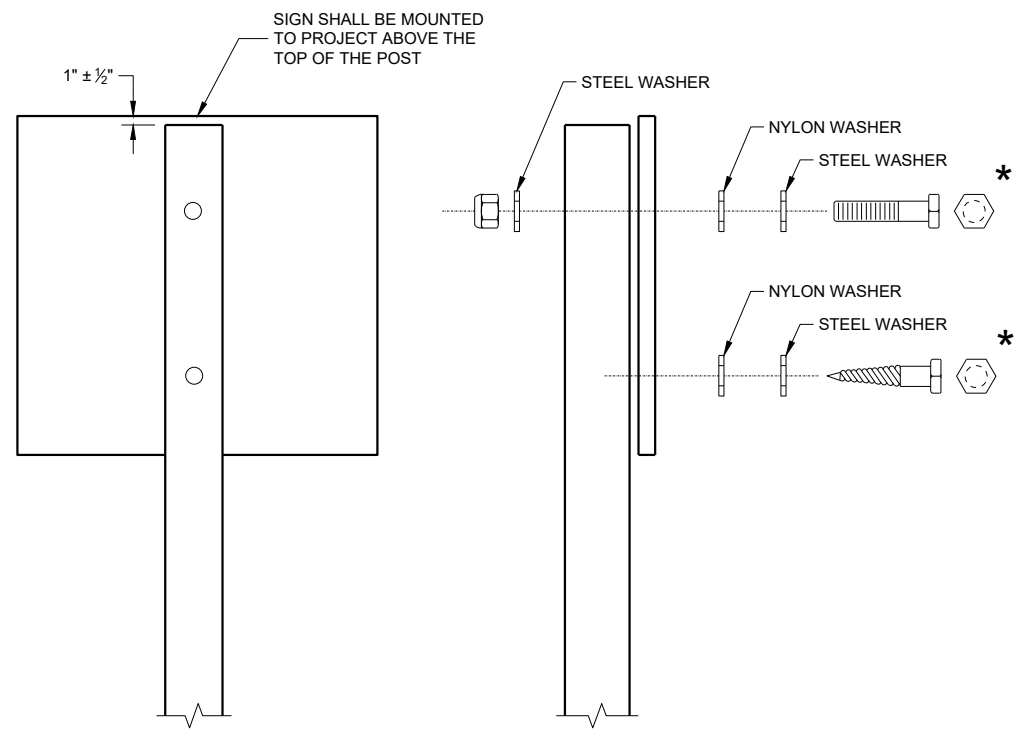
4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

SEE NOTE ③

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION



NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

- A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3
- B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

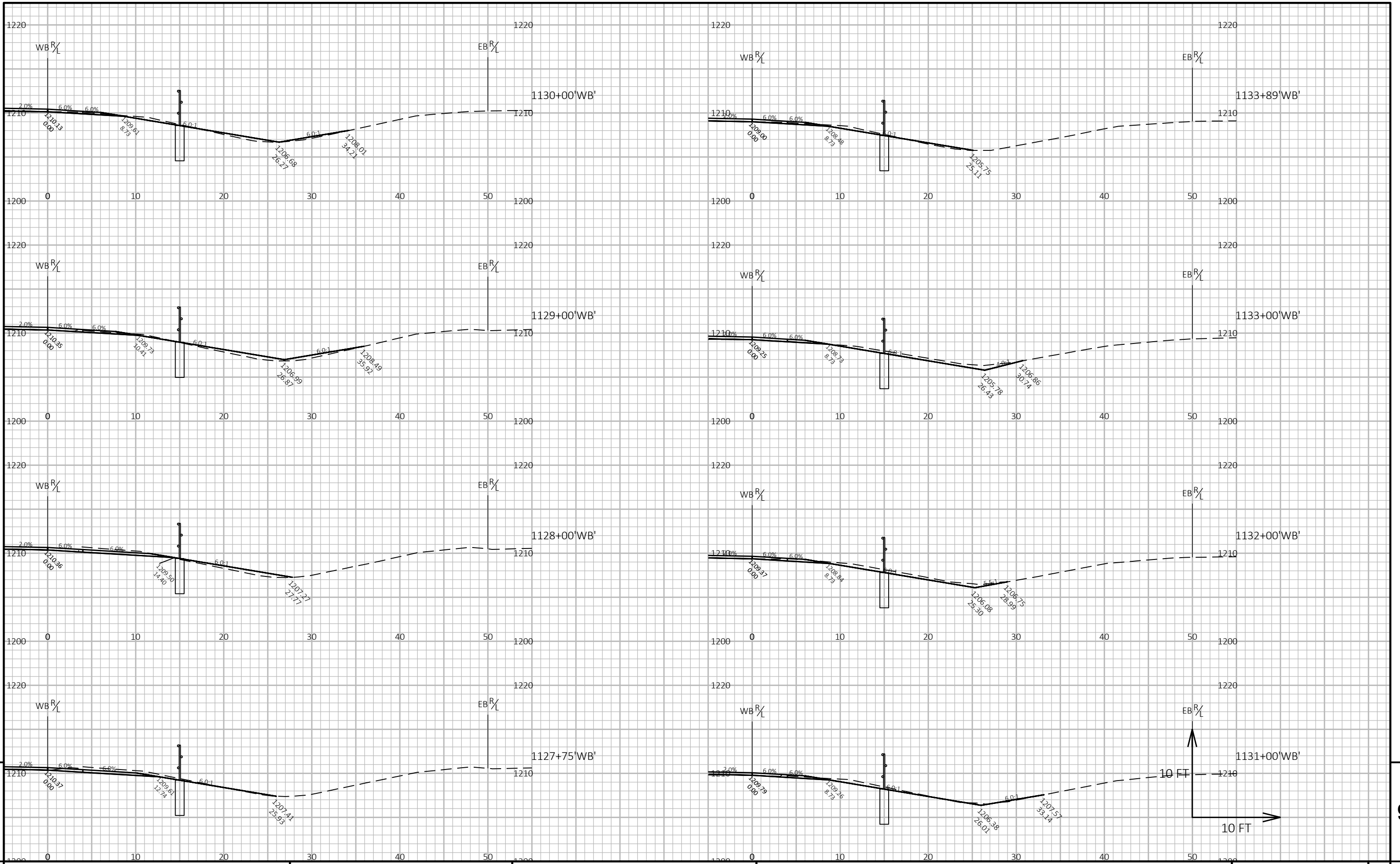
WOOD POST (4" x 6")
 LAG SCREWS - 3/8" x 3"
 MACHINE BOLTS - 5/16" x 6 1/2" OR 7" LENGTH W/NUTS

SQUARE STEEL POST (2" x 2")
 MACHINE BOLTS - 3/8" x 3 1/4" LENGTH W/NUTS
 RIVETS - 3/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM
 BODY/MANDREL O.D. FLANGE 0.720 - 0.765 INCH,
 GRIP RANGE 0.042 - 0.375 INCH

WASHERS (ALL POSTS) -
 1 1/4" O.D. x 3/8" I.D. x 1/16" STEEL
 1 1/4" O.D. x 3/8" I.D. x 0.080 NYLON

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

ATTACHMENT OF SIGNS TO POSTS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	



PROJECT NO: 1204-05-76

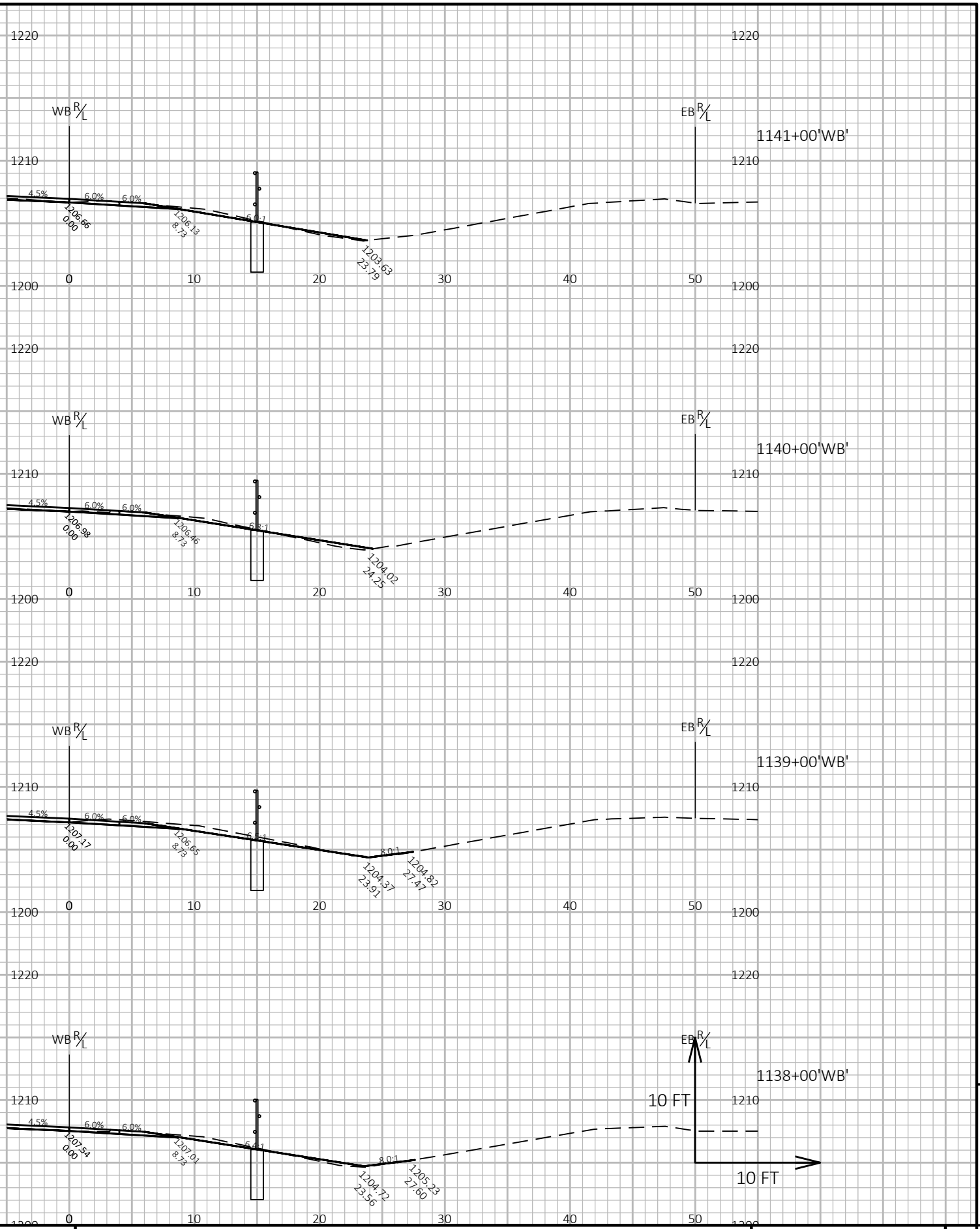
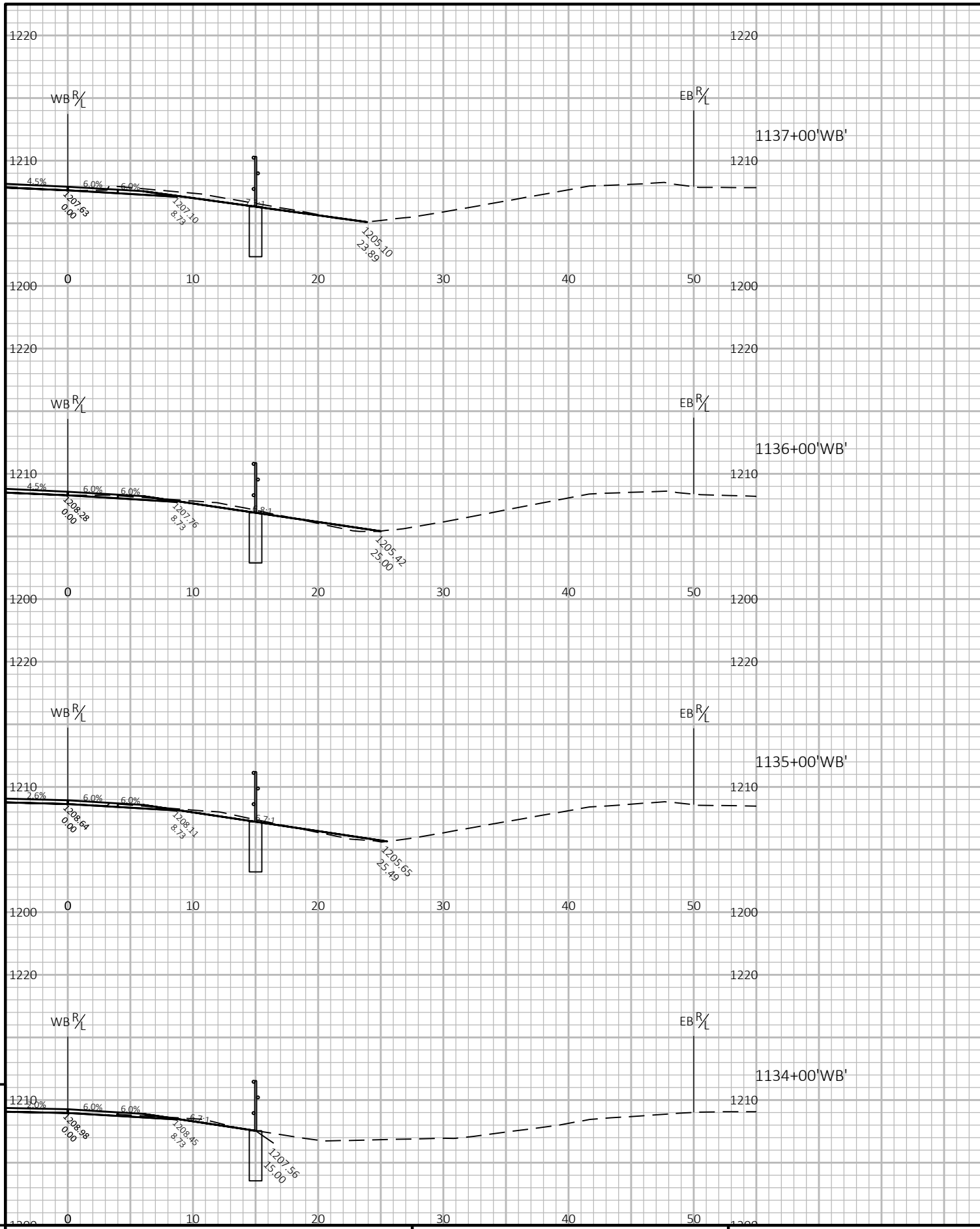
HWY: USH 18

COUNTY: IOWA & DANE

CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY

SHEET

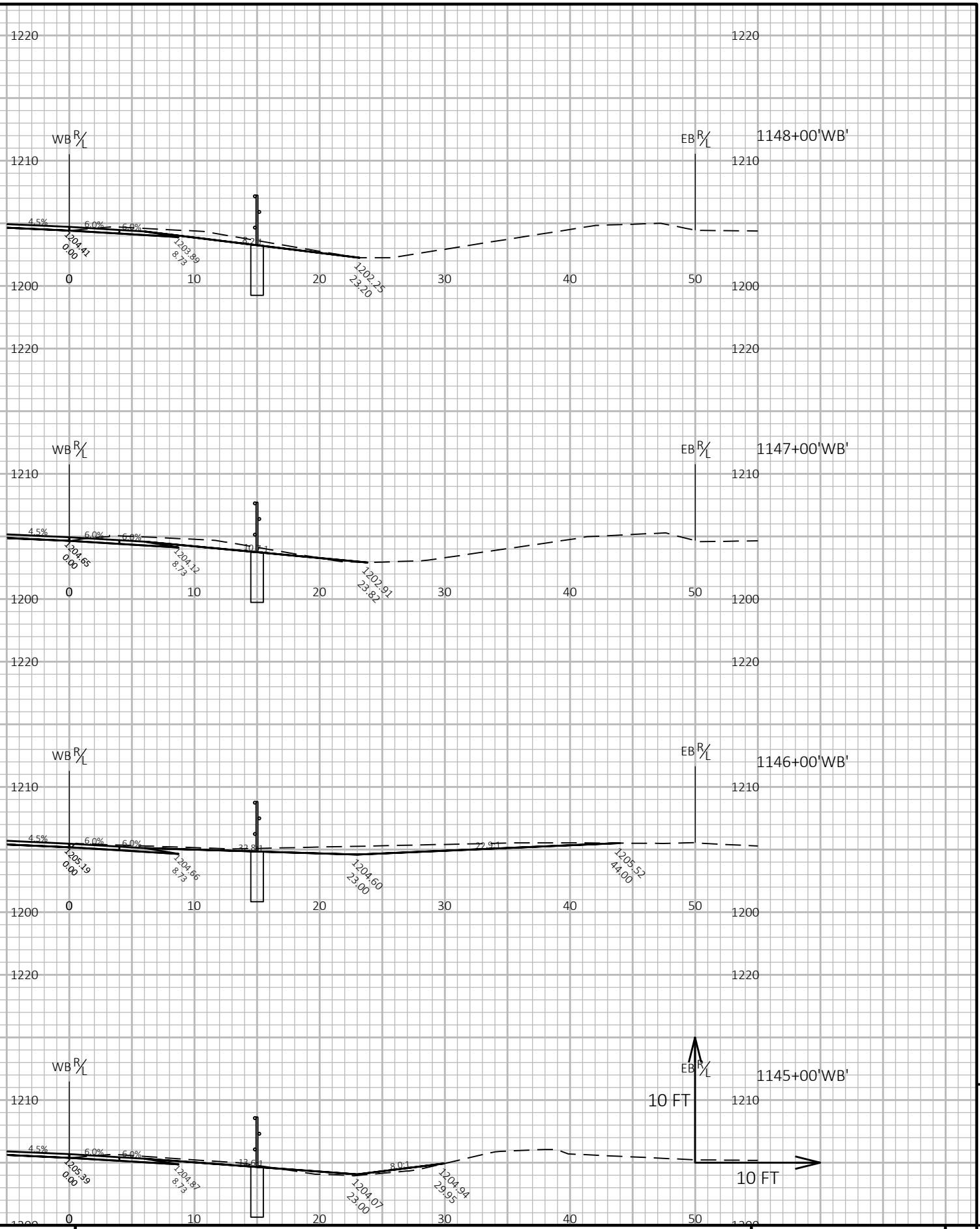
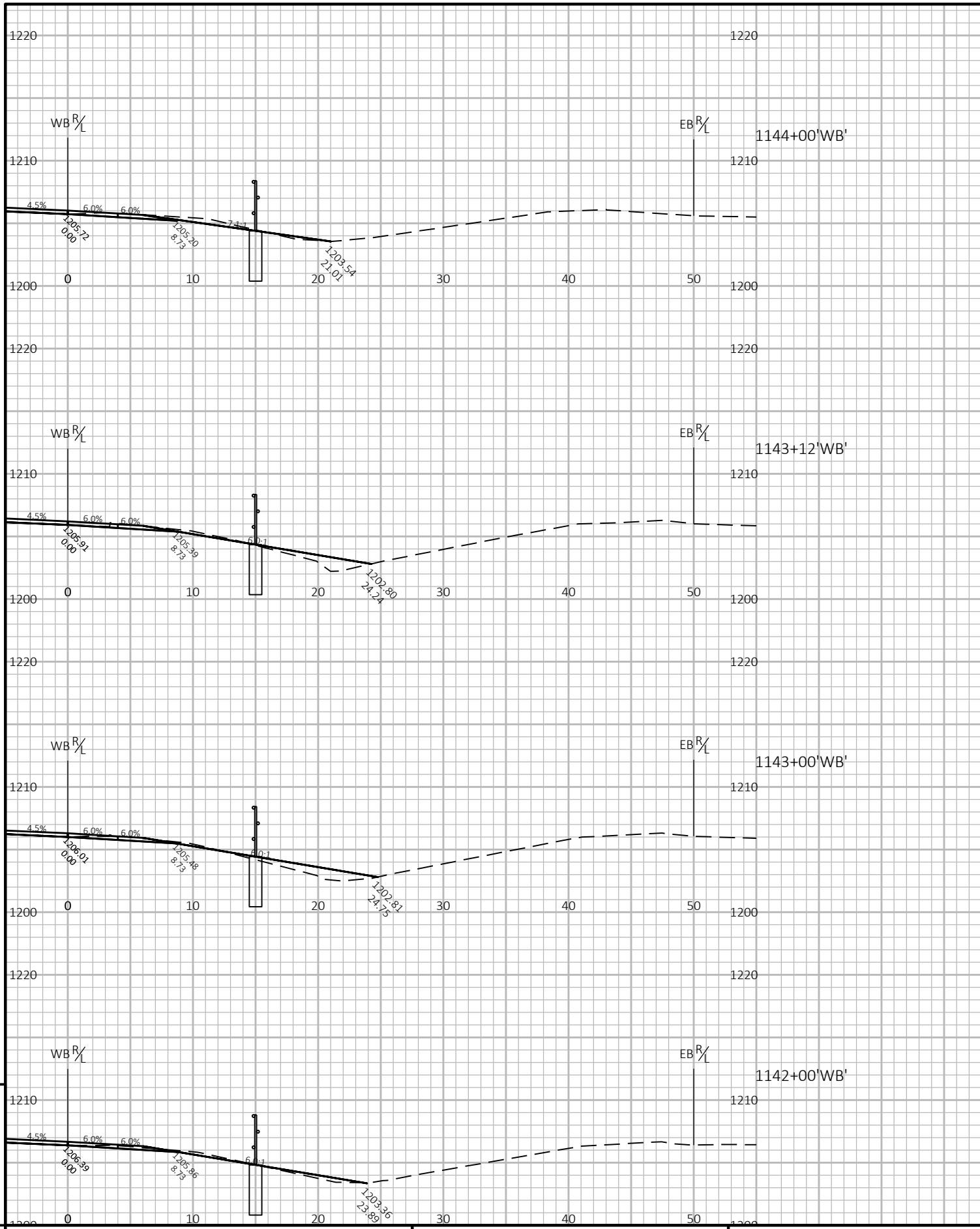
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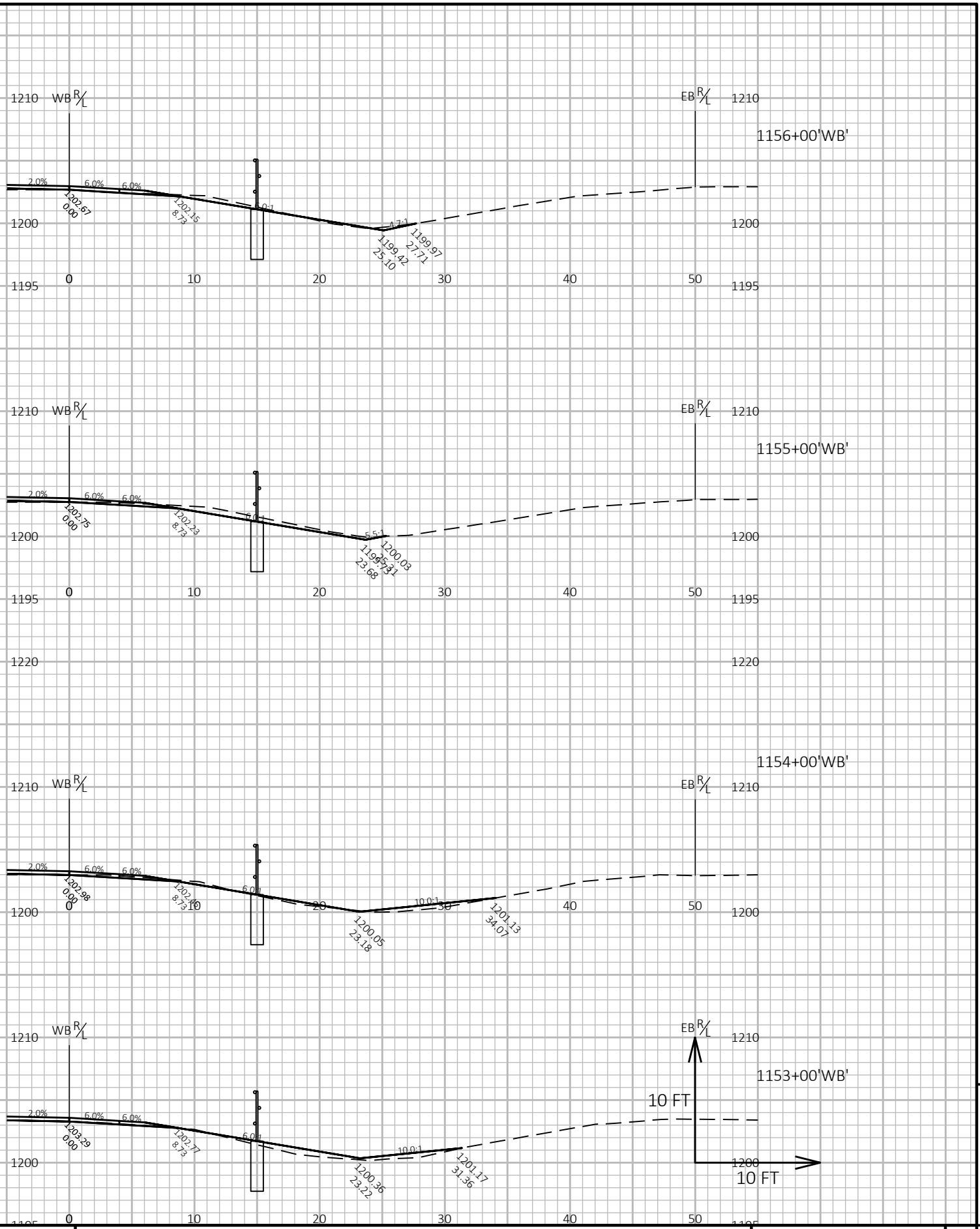
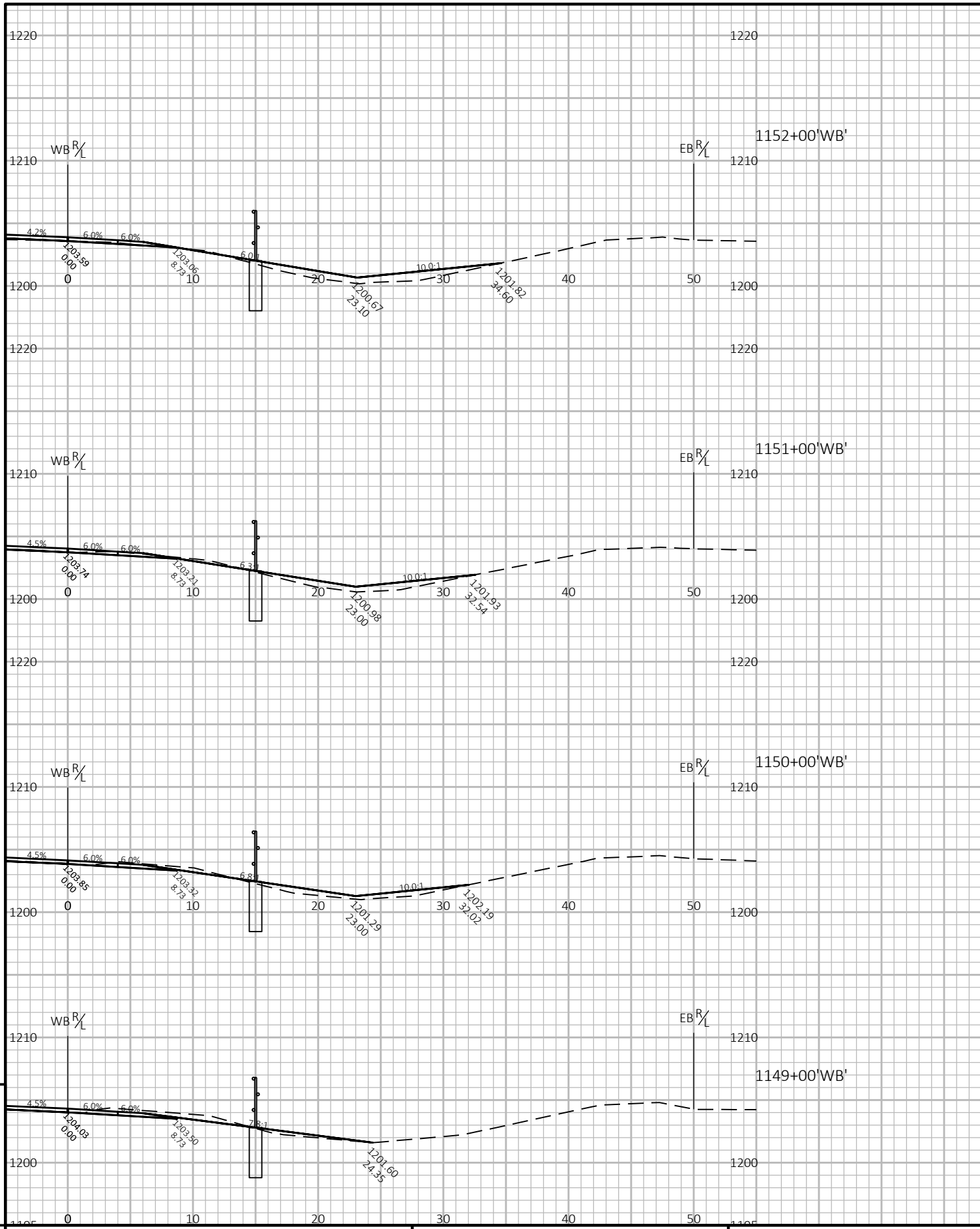
PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY SHEET E

9

9



PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY SHEET E



PROJECT NO: 1204-05-76

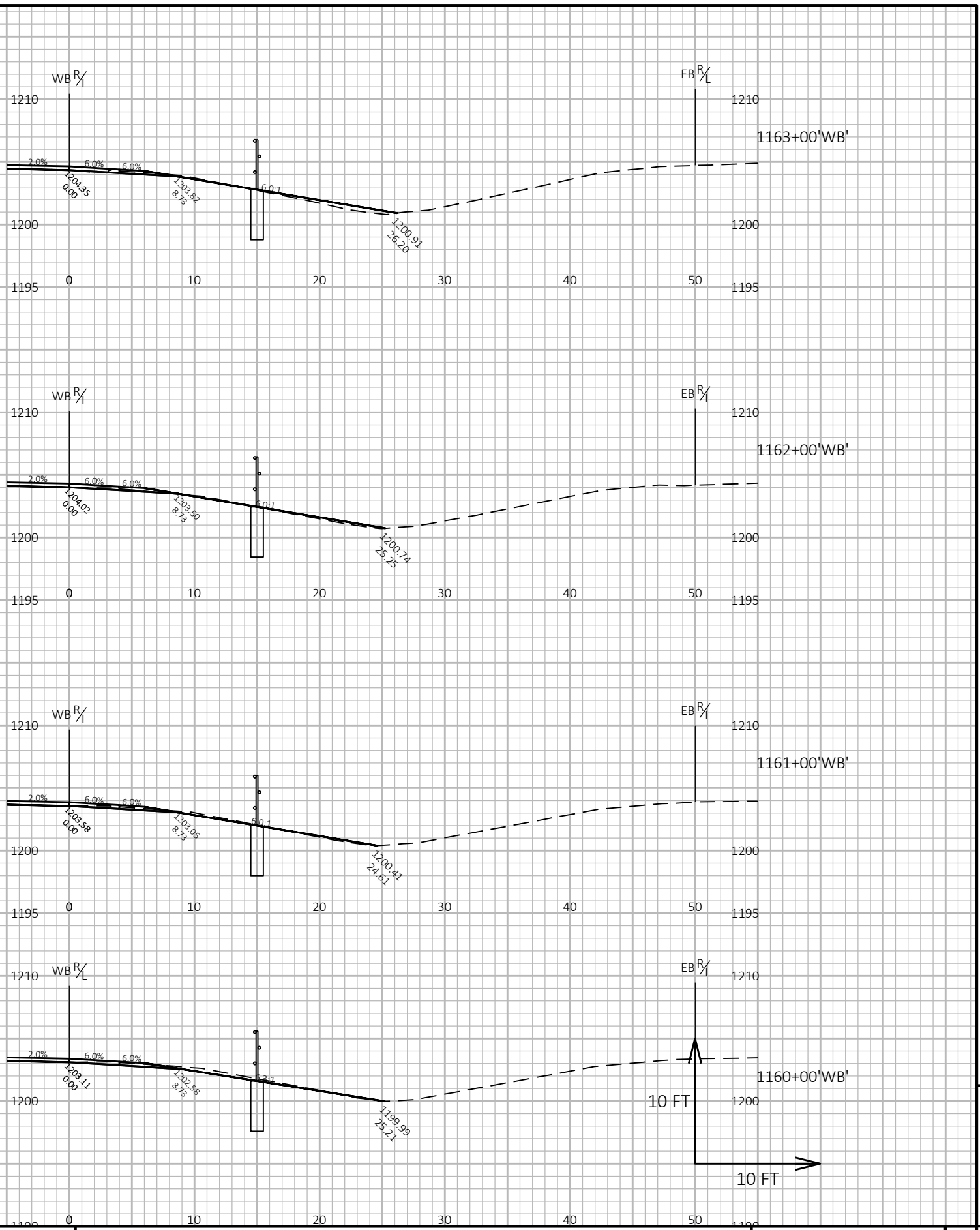
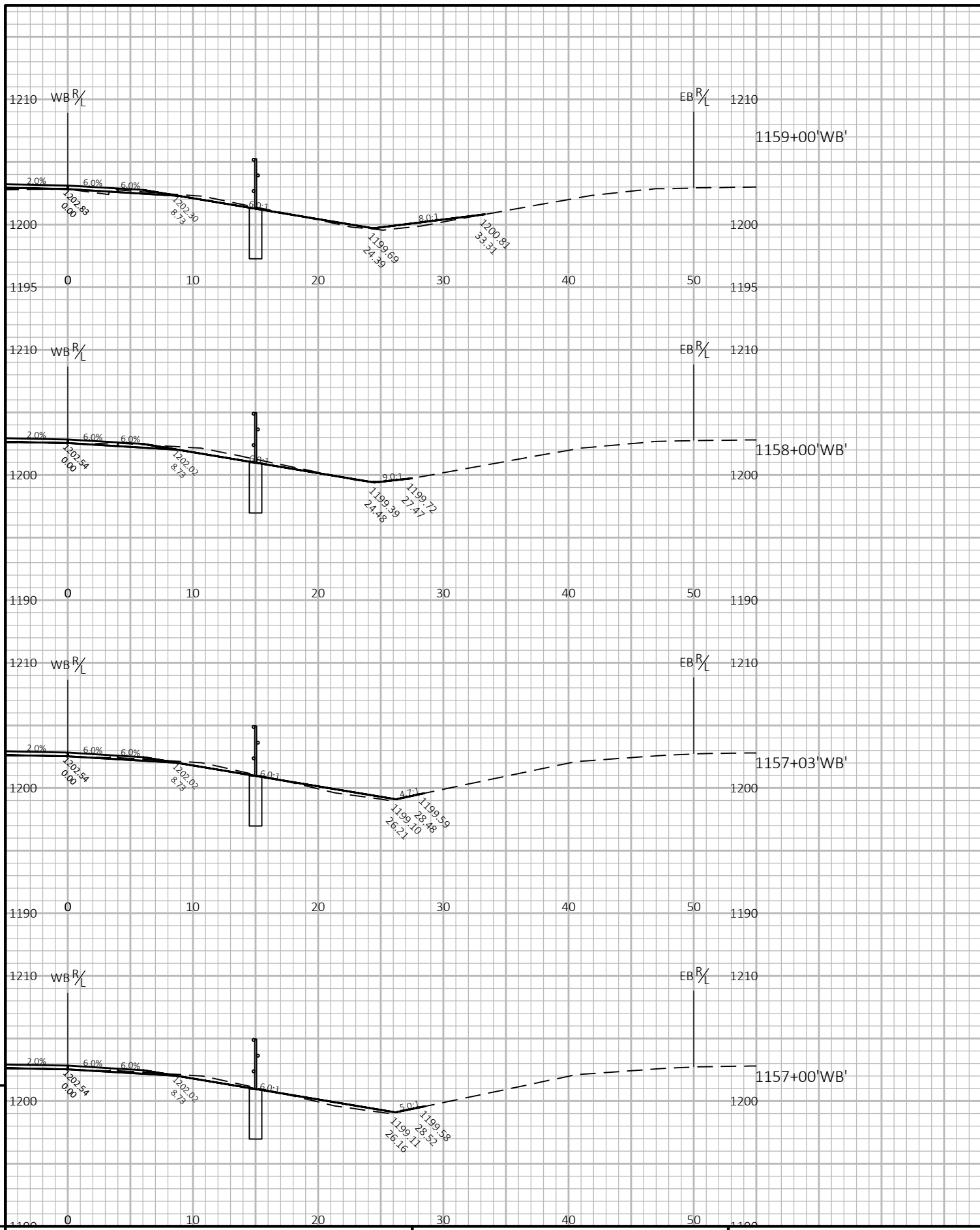
HWY: USH 18

COUNTY: IOWA & DANE

CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY

SHEET

E



PROJECT NO: 1204-05-76

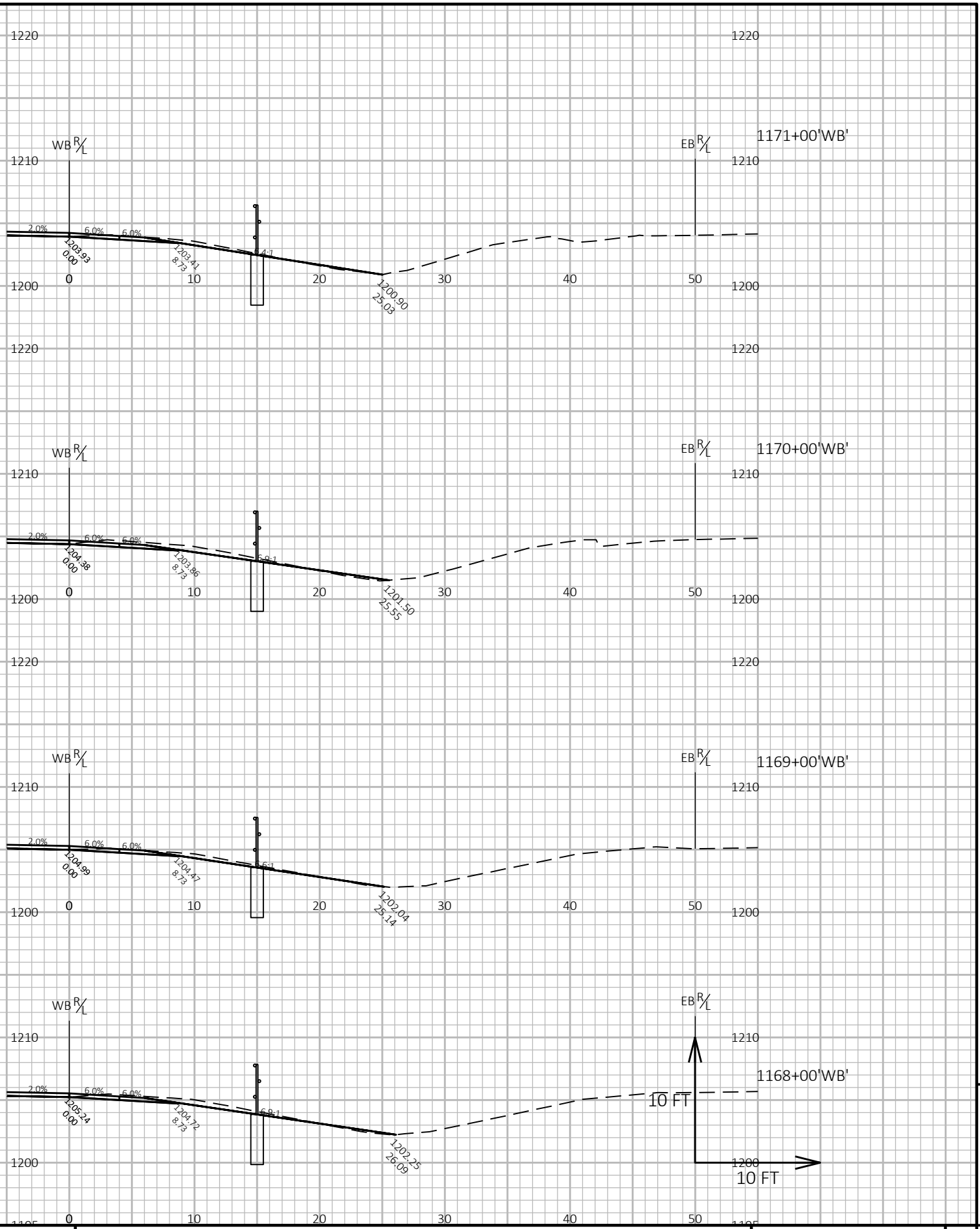
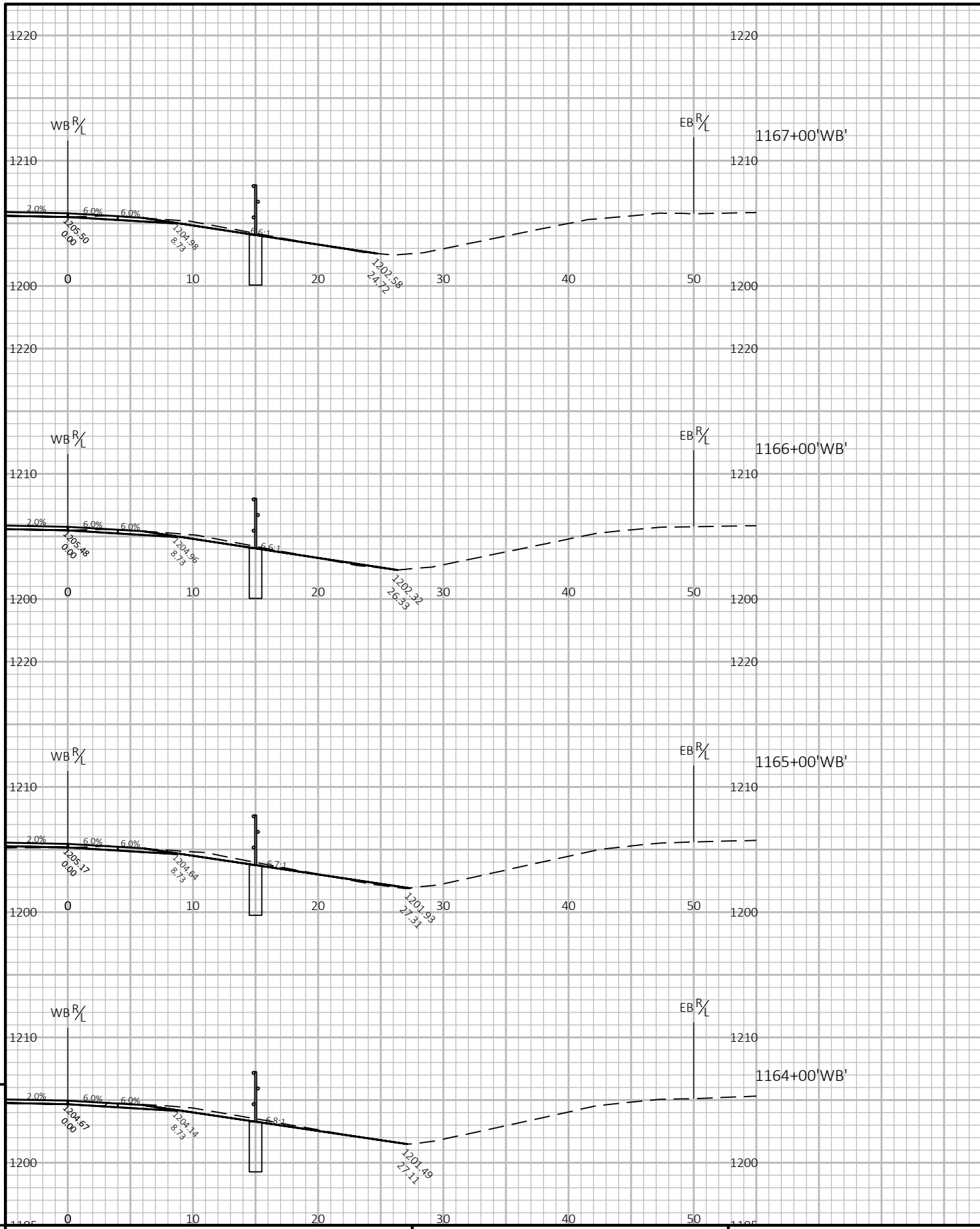
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COUNTY: IOWA & DANE

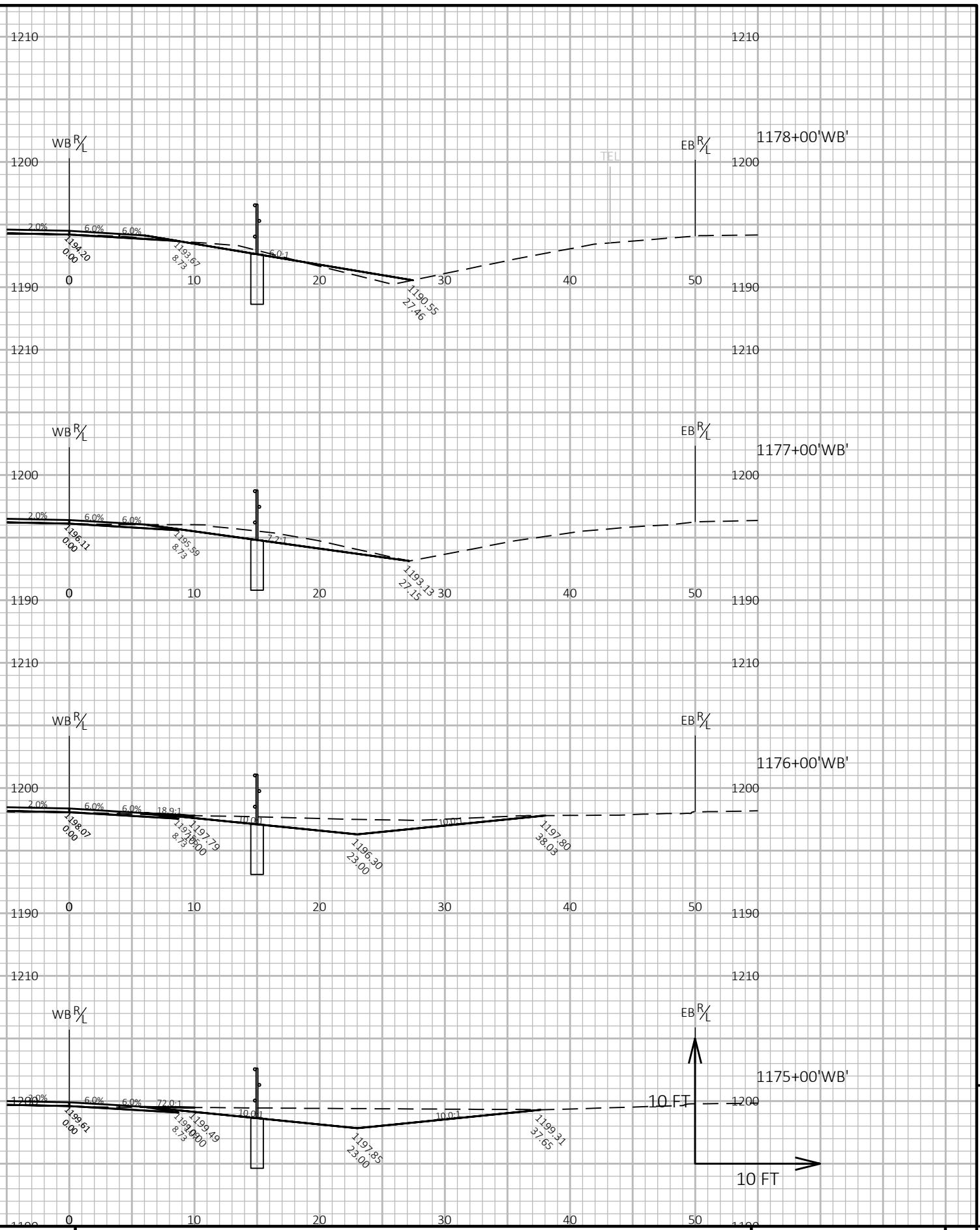
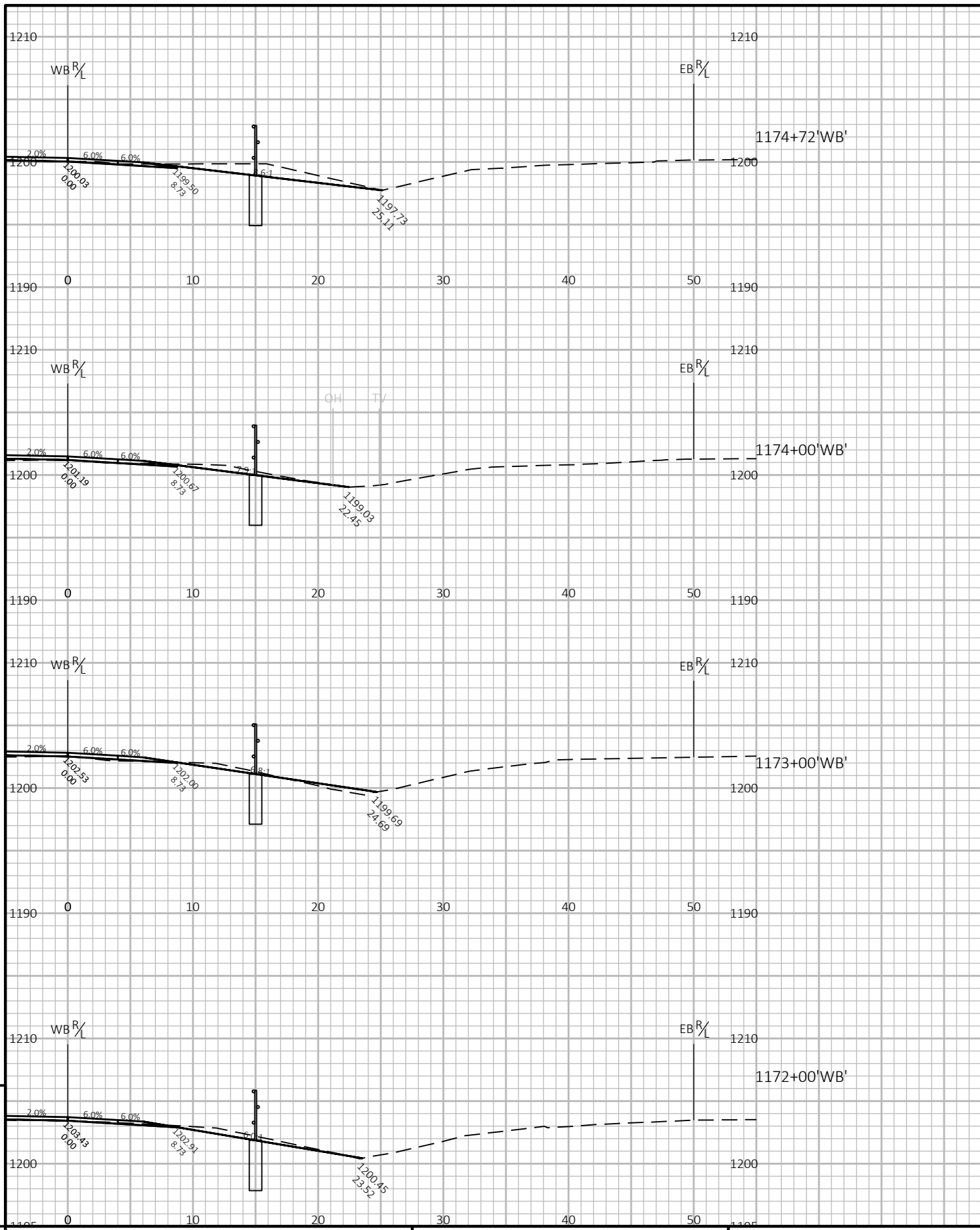
CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY

SHEET

E



PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY SHEET E



PROJECT NO: 1204-05-76

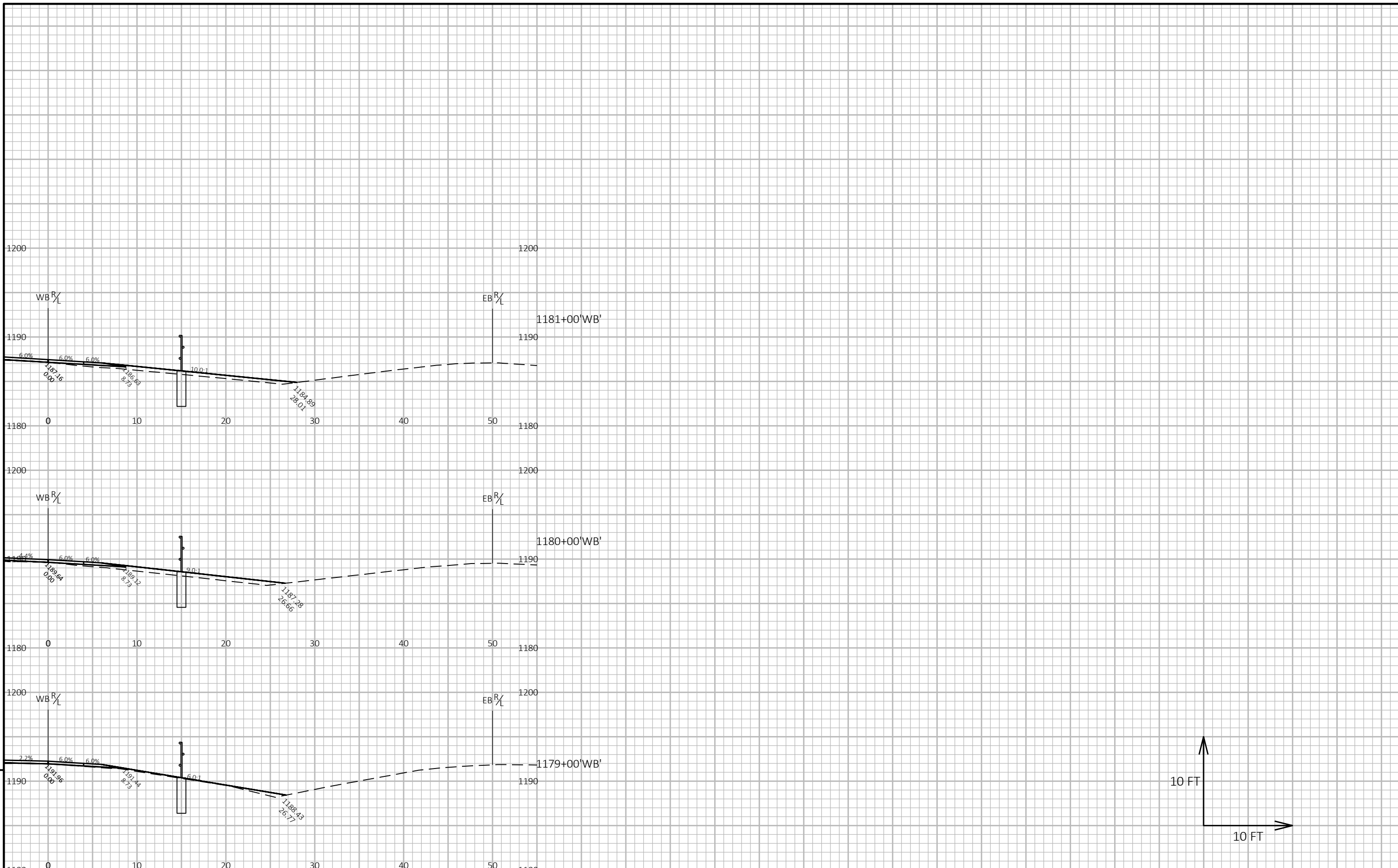
HWY: USH 18

COUNTY: IOWA & DANE

CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY

SHEET

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PROJECT NO: 1204-05-76

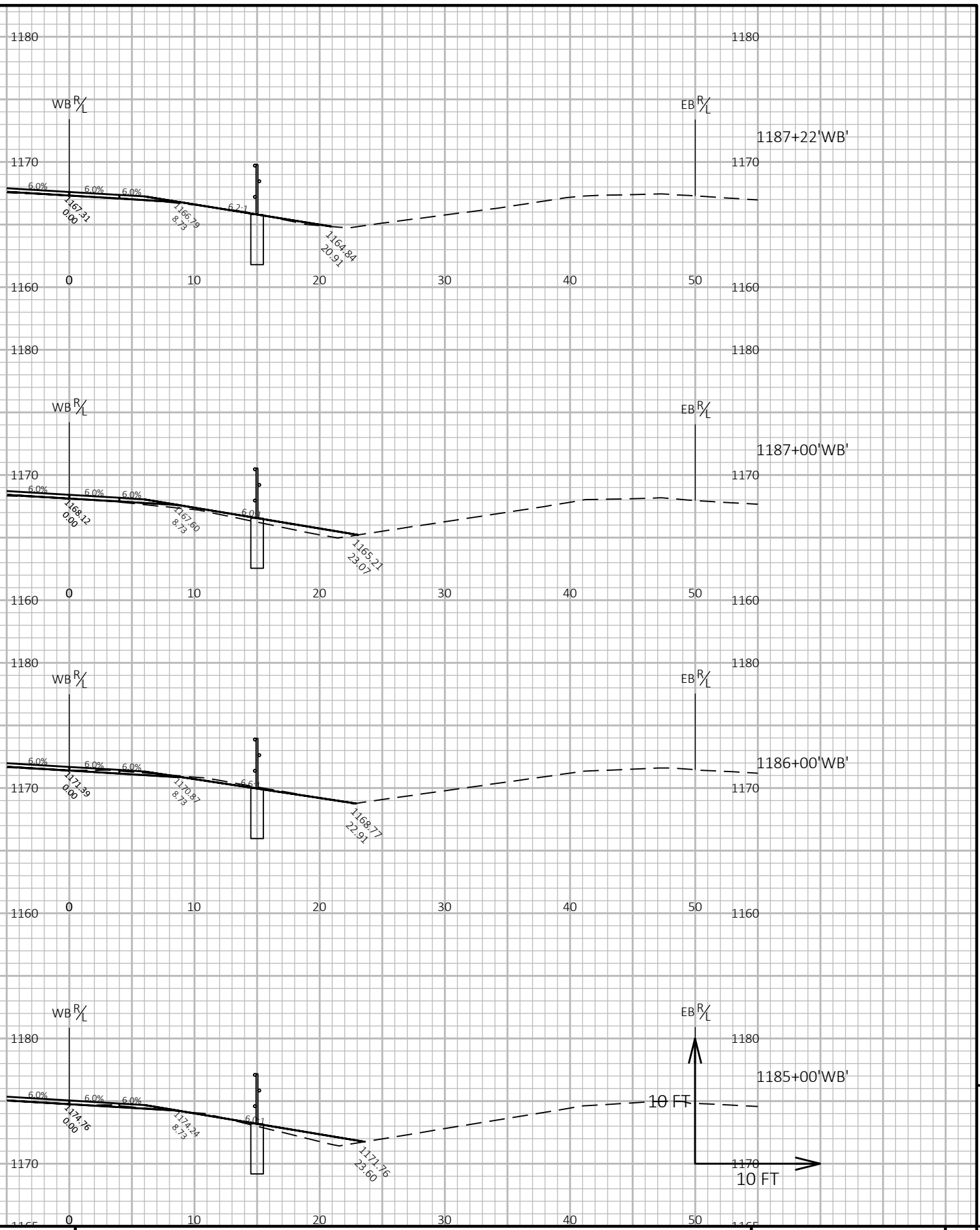
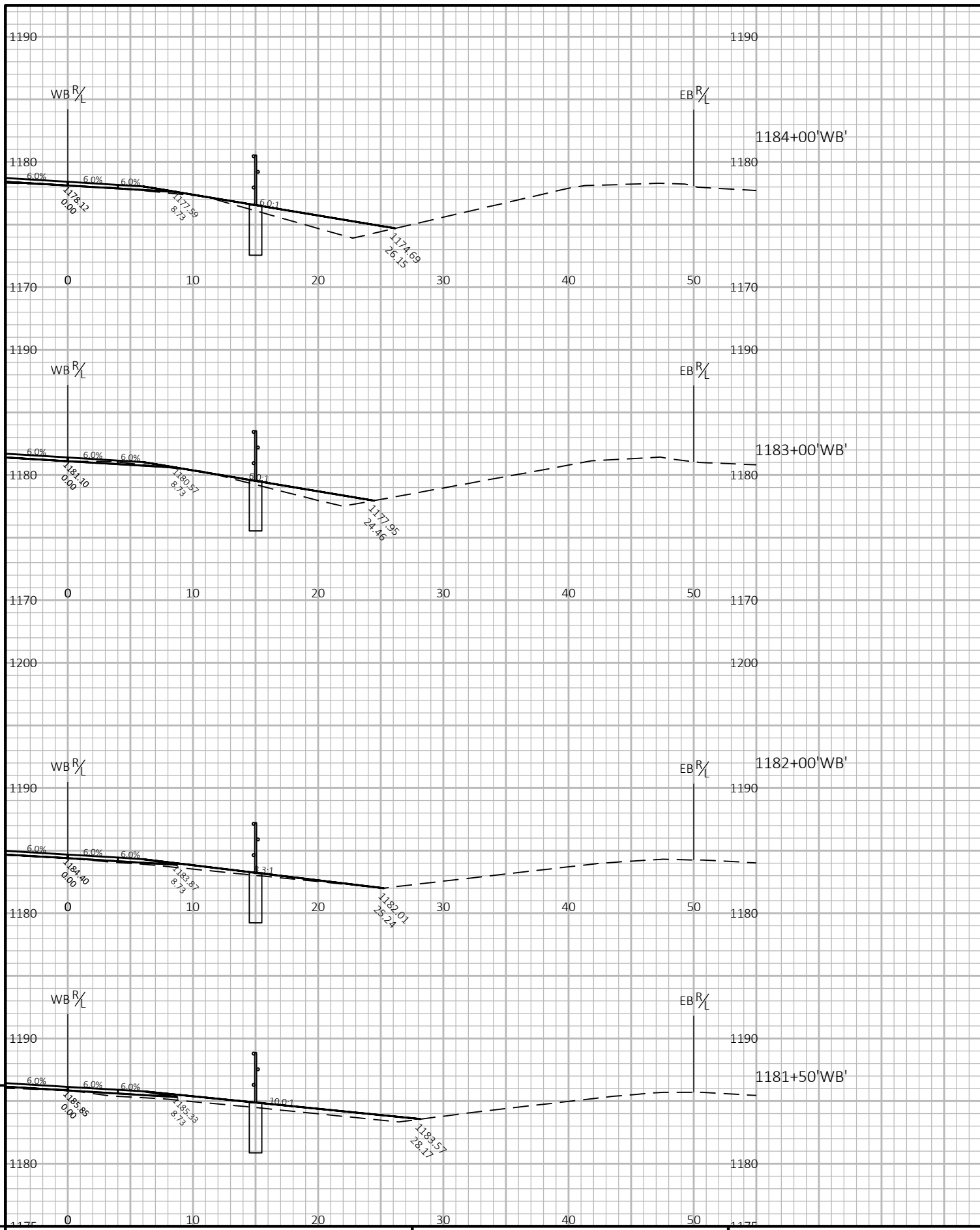
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COUNTY: IOWA & DANE

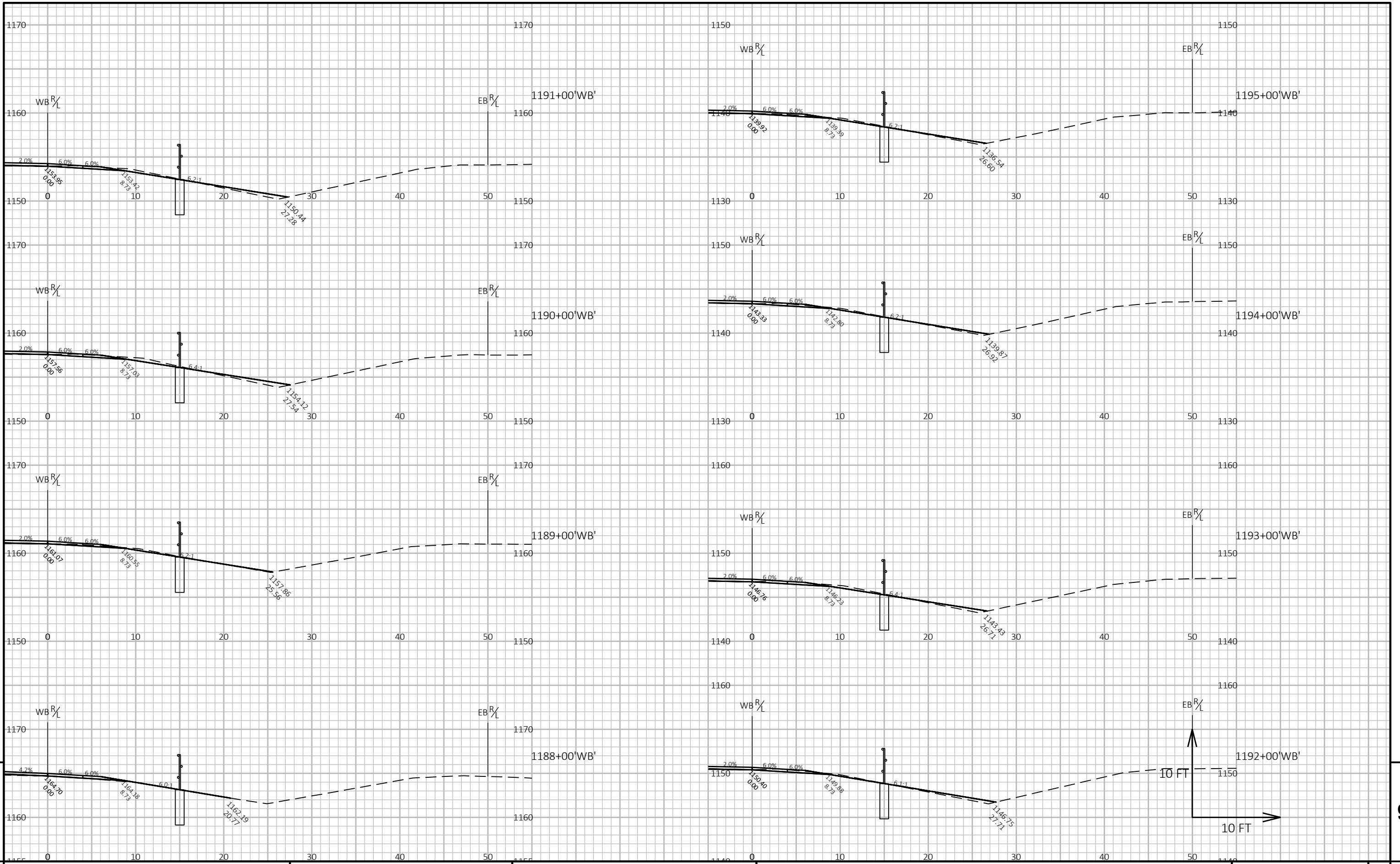
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SHEET

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PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY SHEET E



PROJECT NO: 1204-05-76

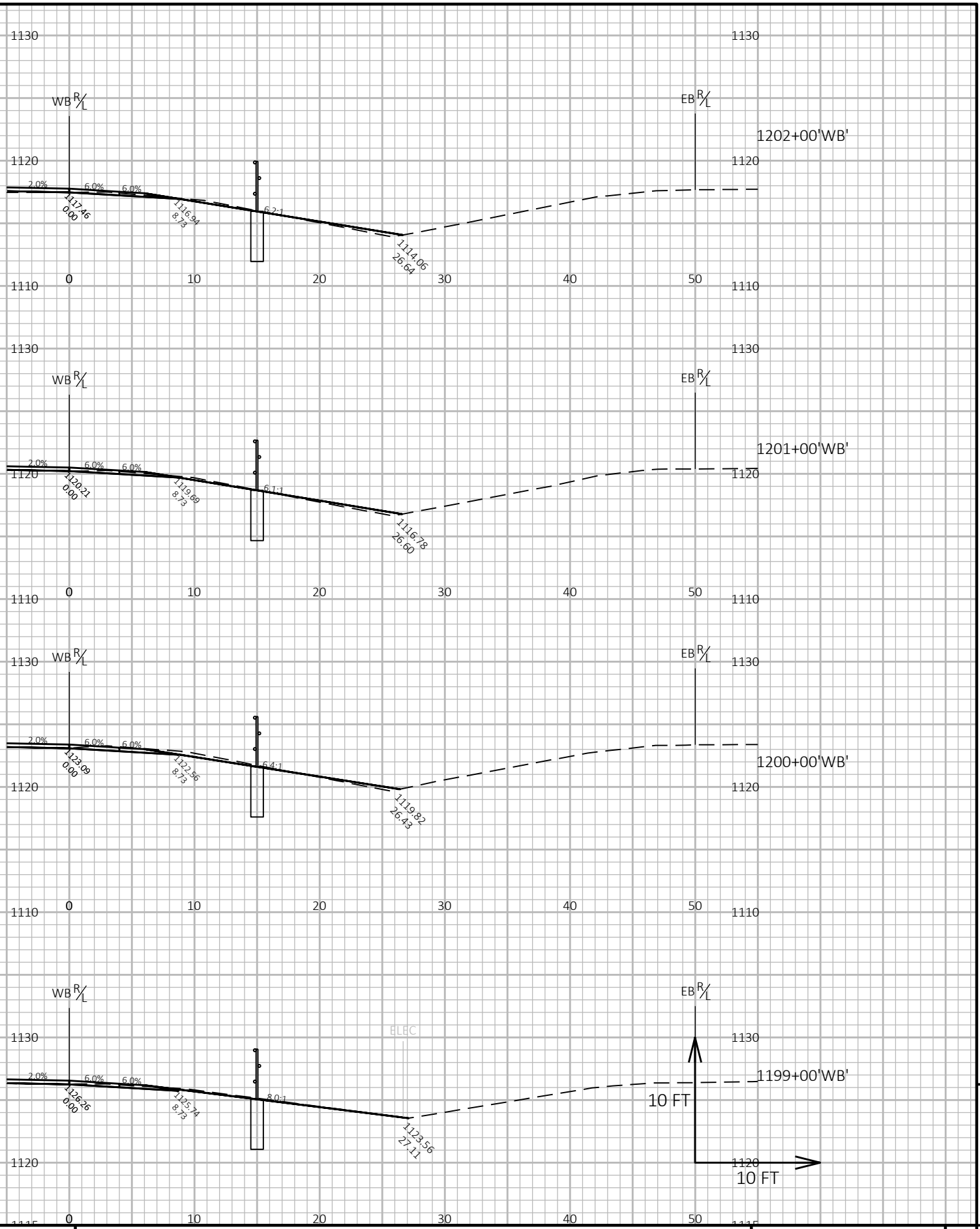
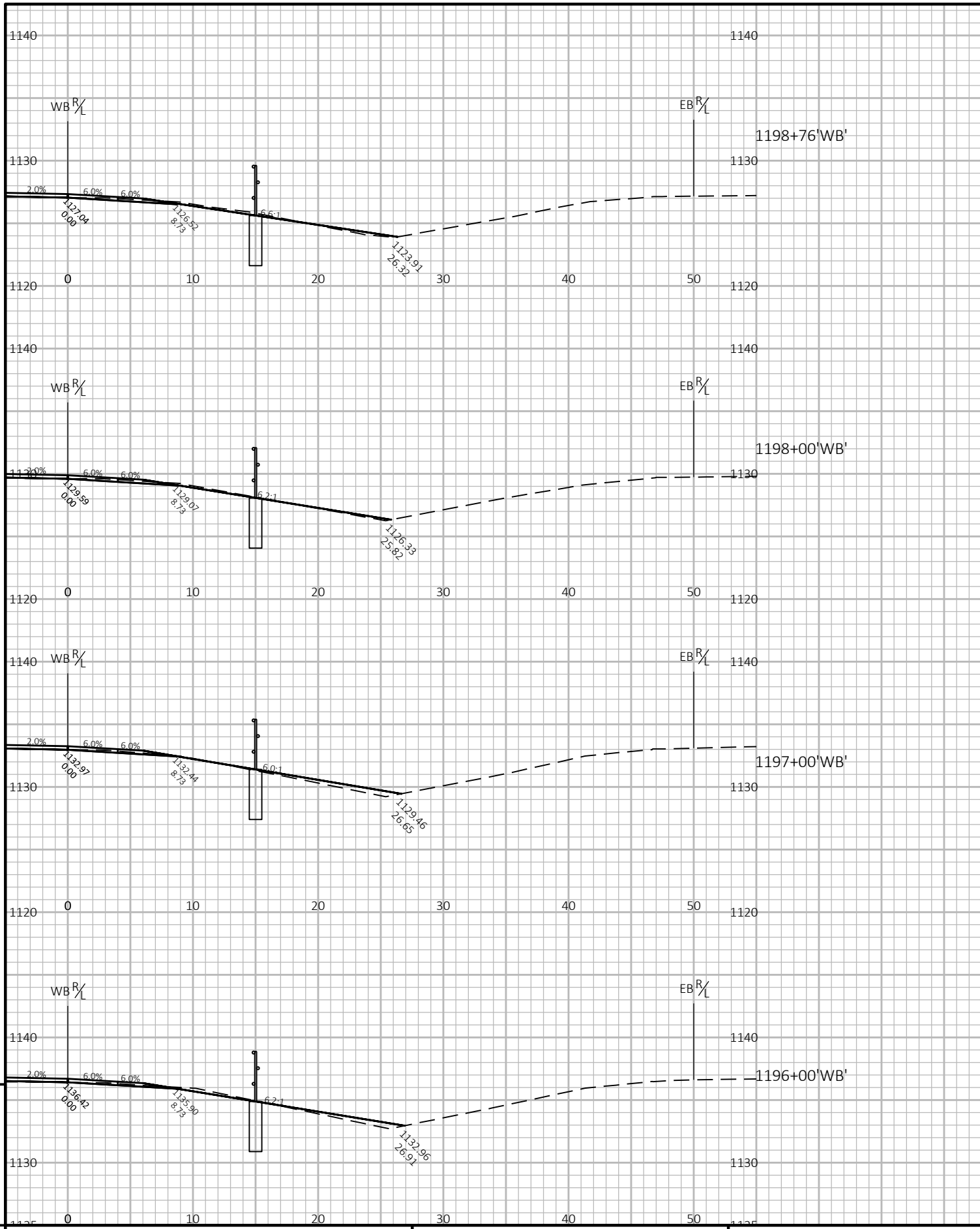
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COUNTY: IOWA & DANE

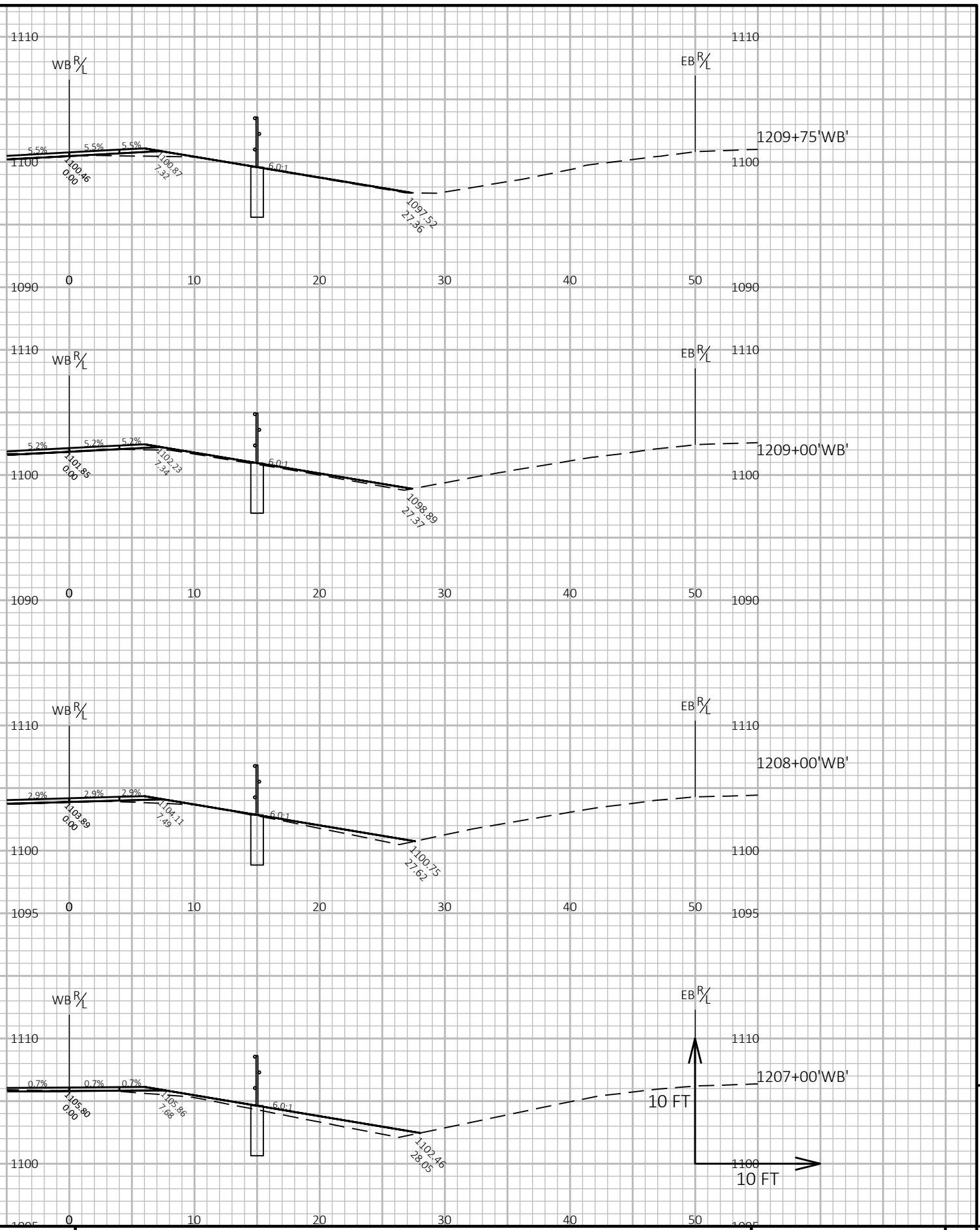
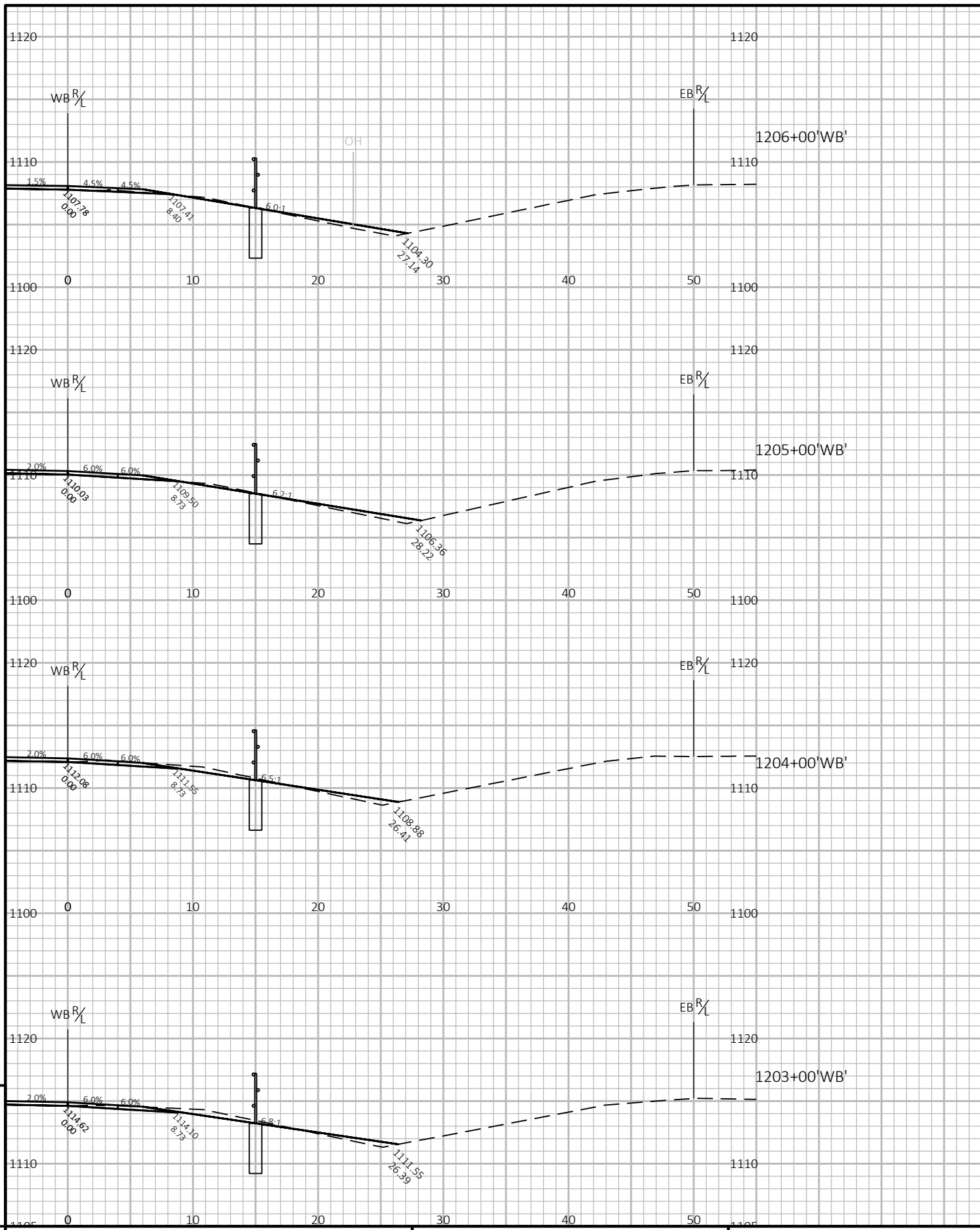
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SHEET

E



PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY SHEET E



PROJECT NO: 1204-05-76

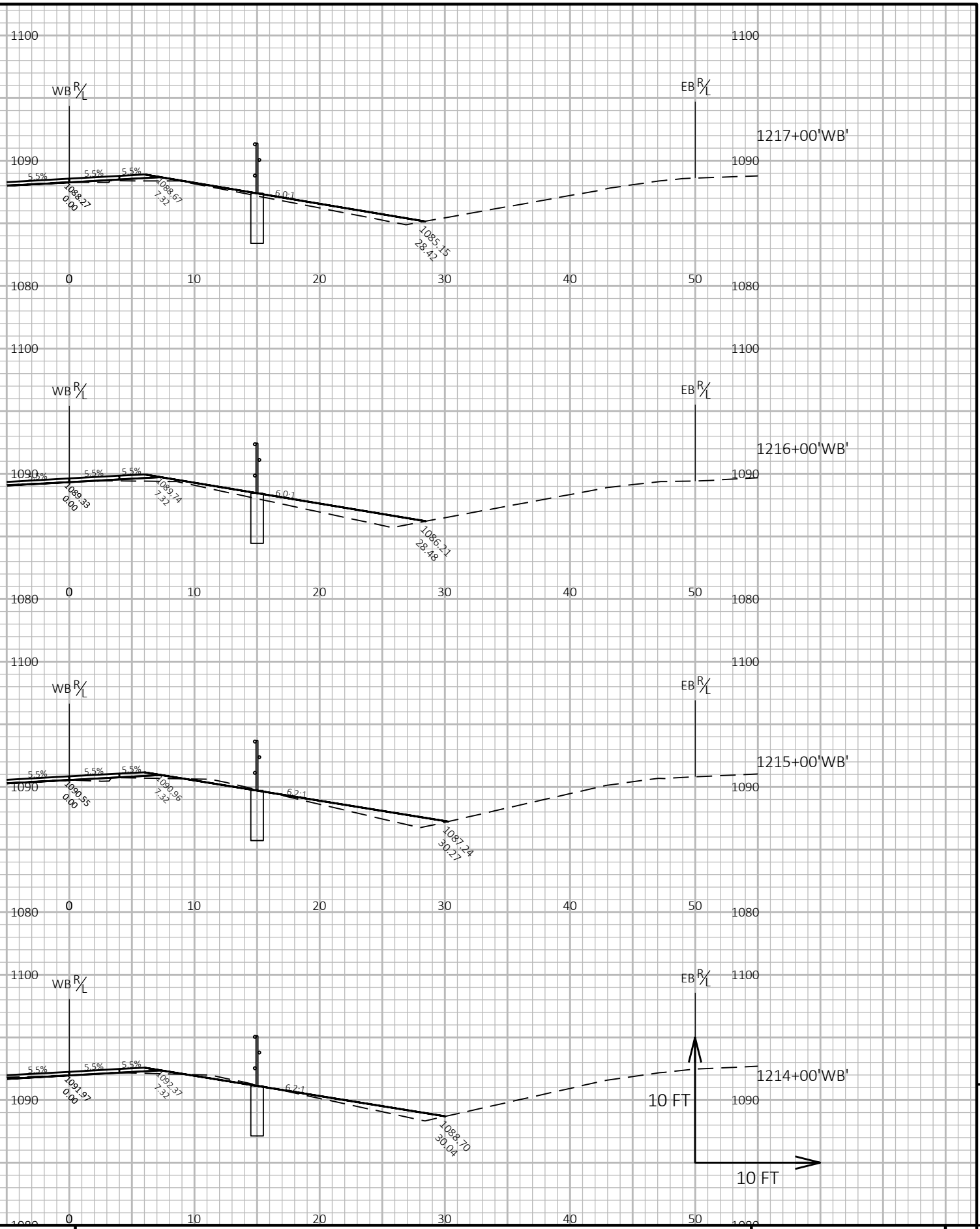
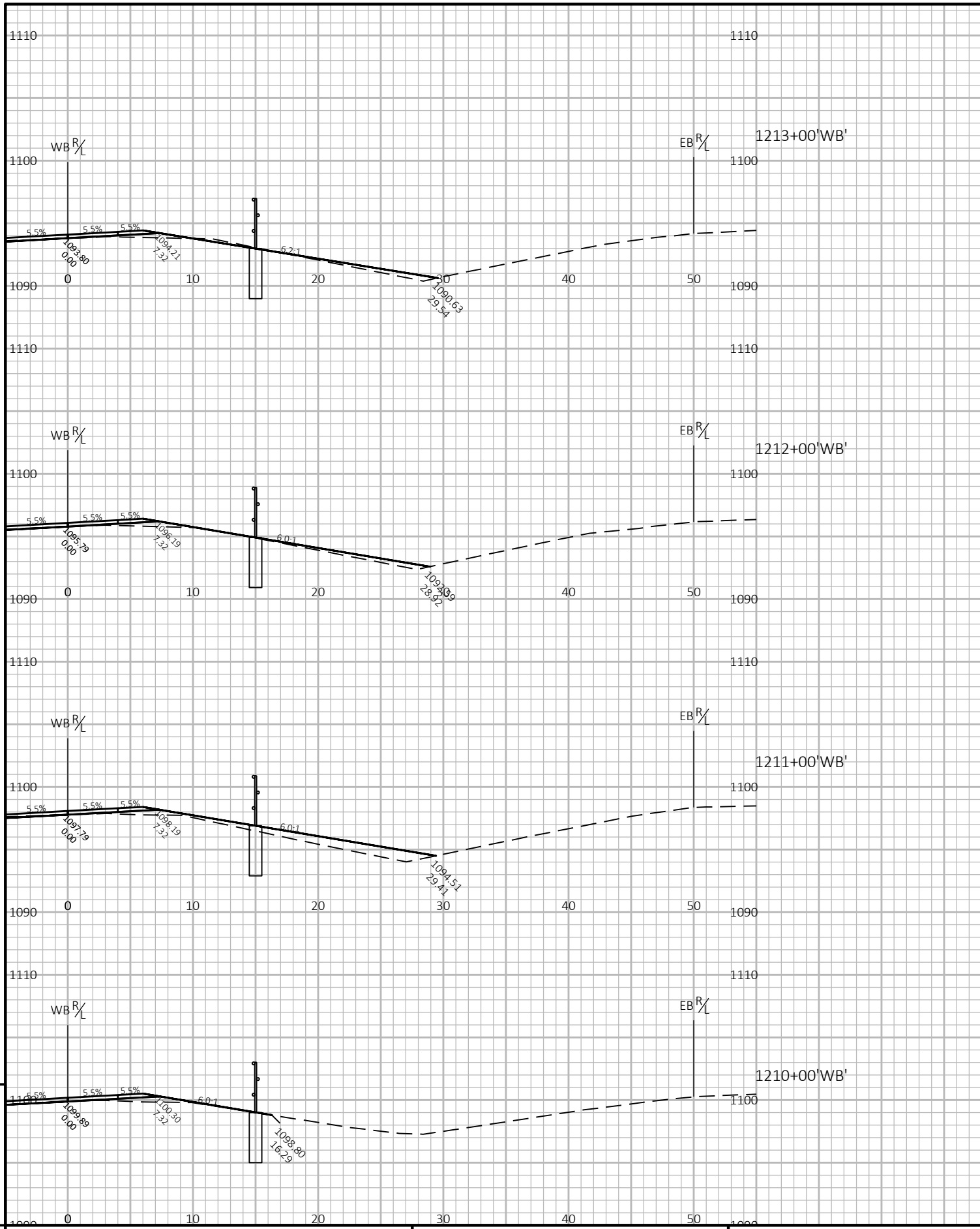
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COUNTY: IOWA & DANE

CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY

SHEET

E



PROJECT NO: 1204-05-76

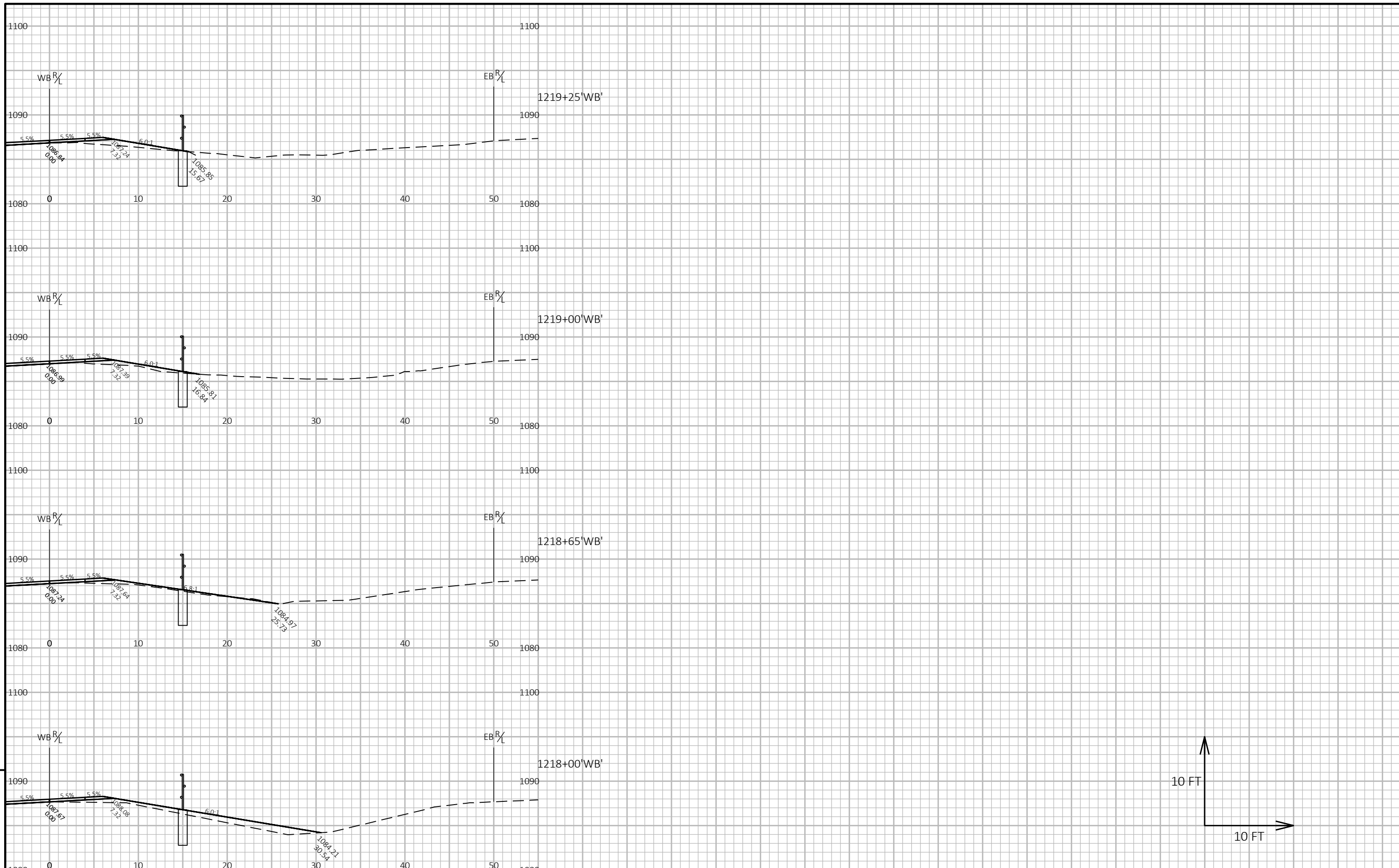
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COUNTY: IOWA & DANE

CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY

SHEET

E



PROJECT NO: 1204-05-76

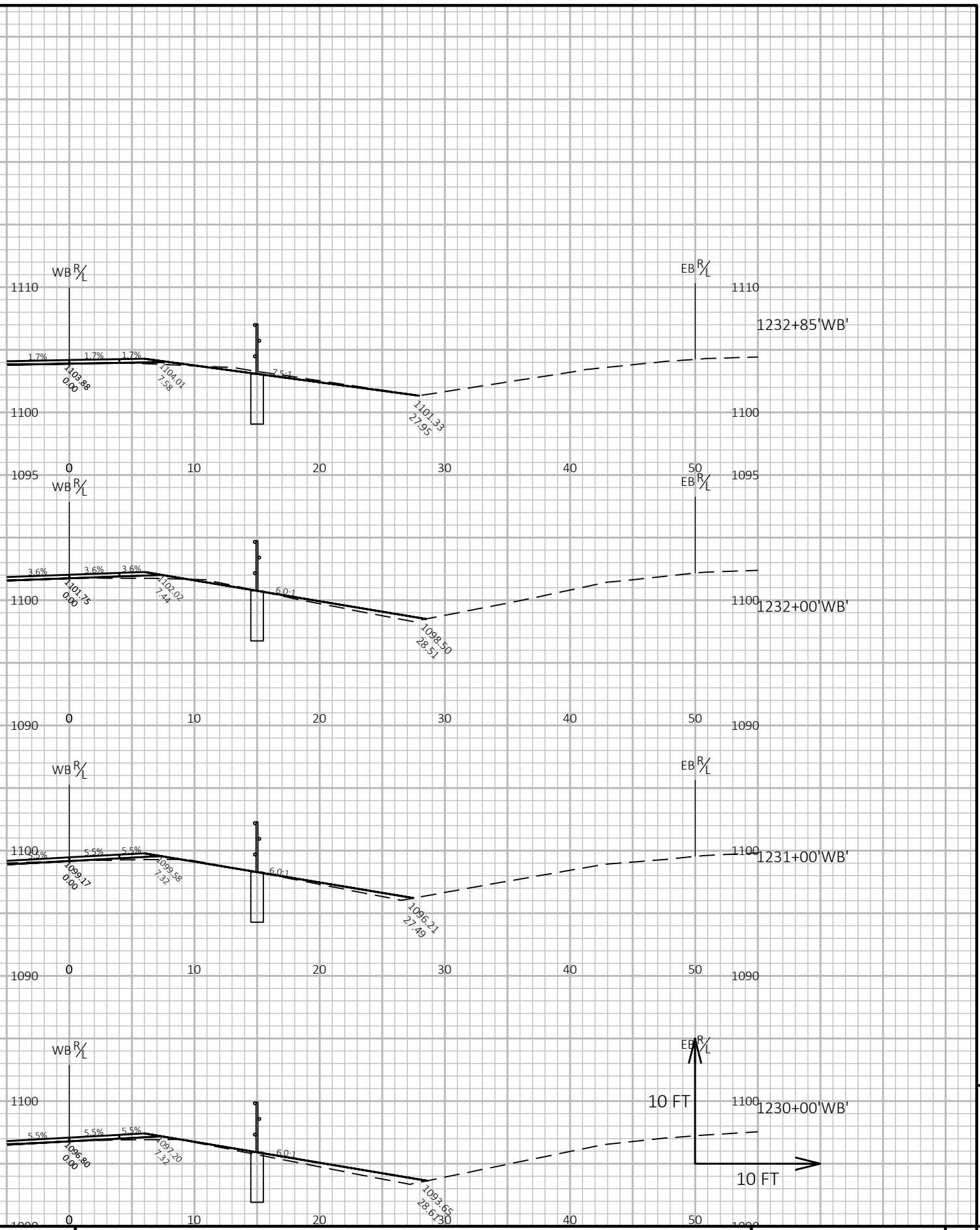
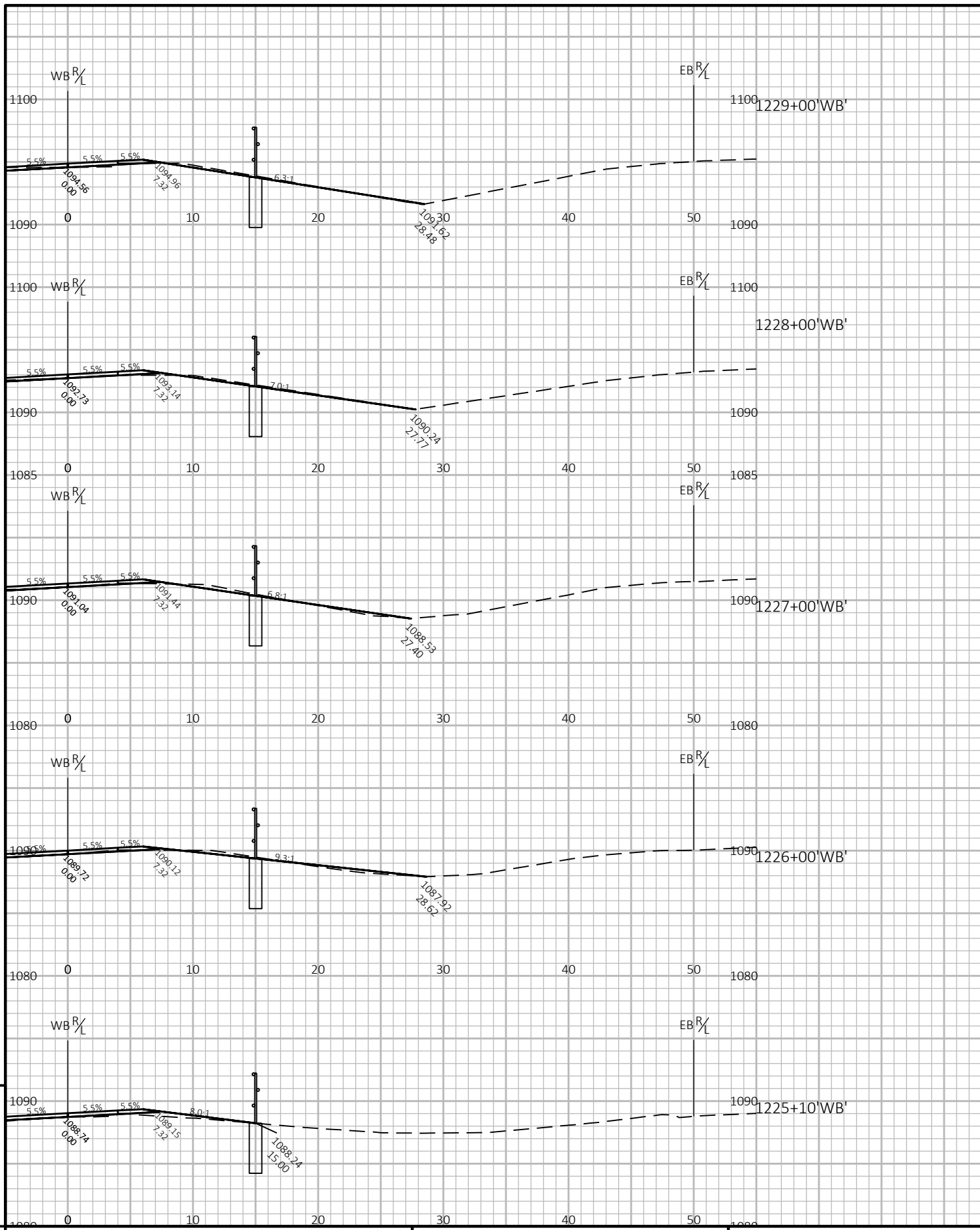
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COUNTY: IOWA & DANE

CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY

SHEET

E



PROJECT NO: 1204-05-76

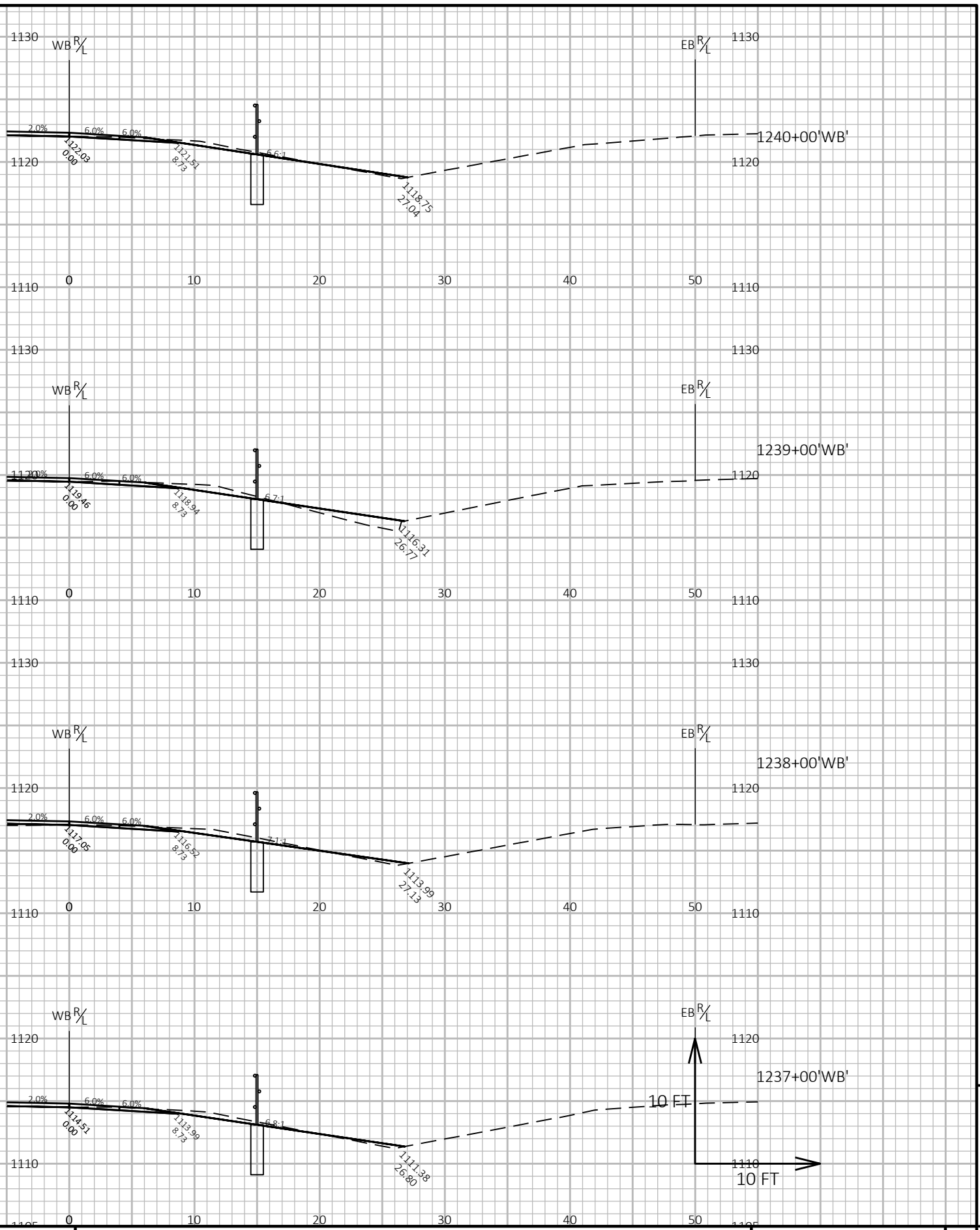
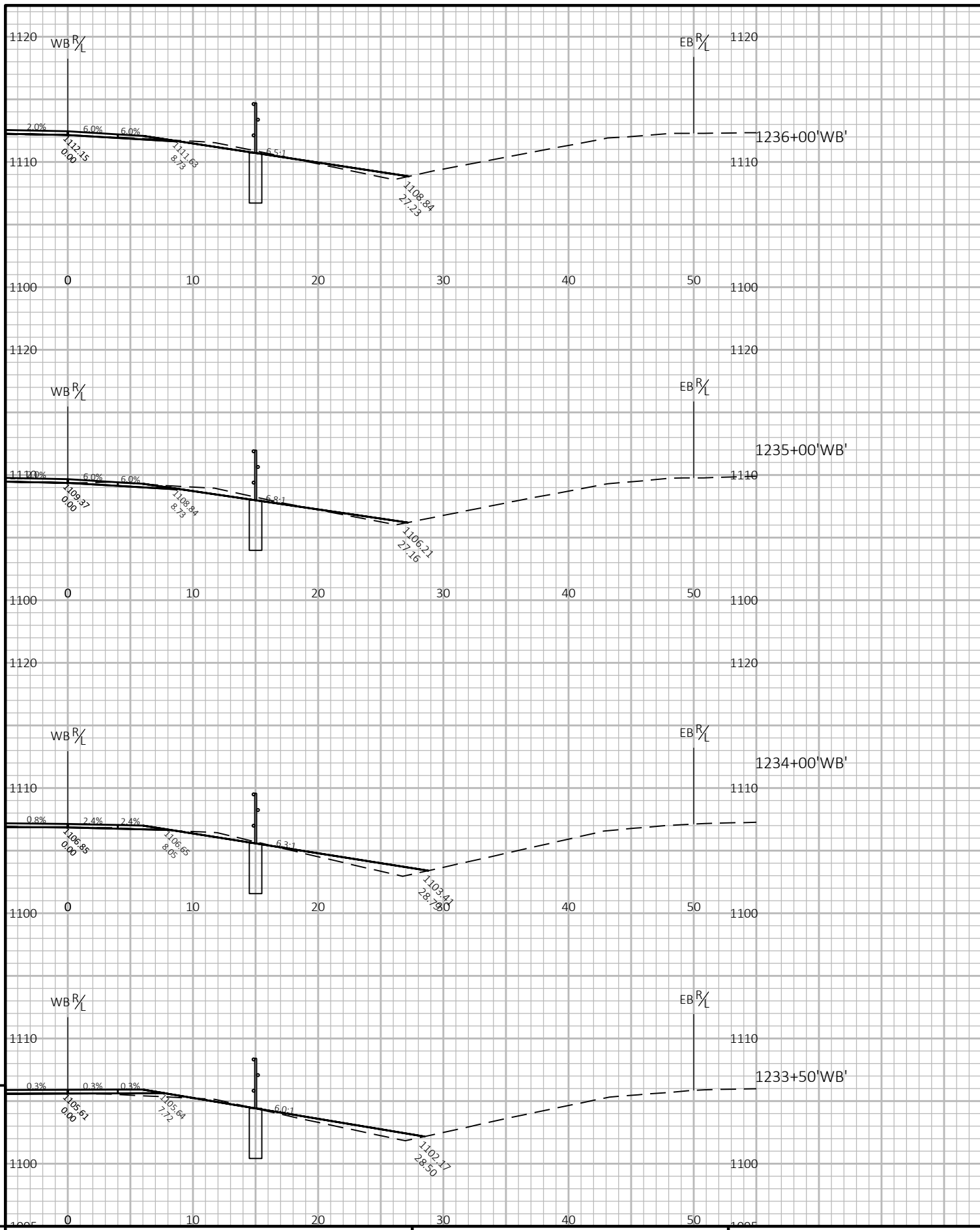
HWY: USH 18

COUNTY: IOWA & DANE

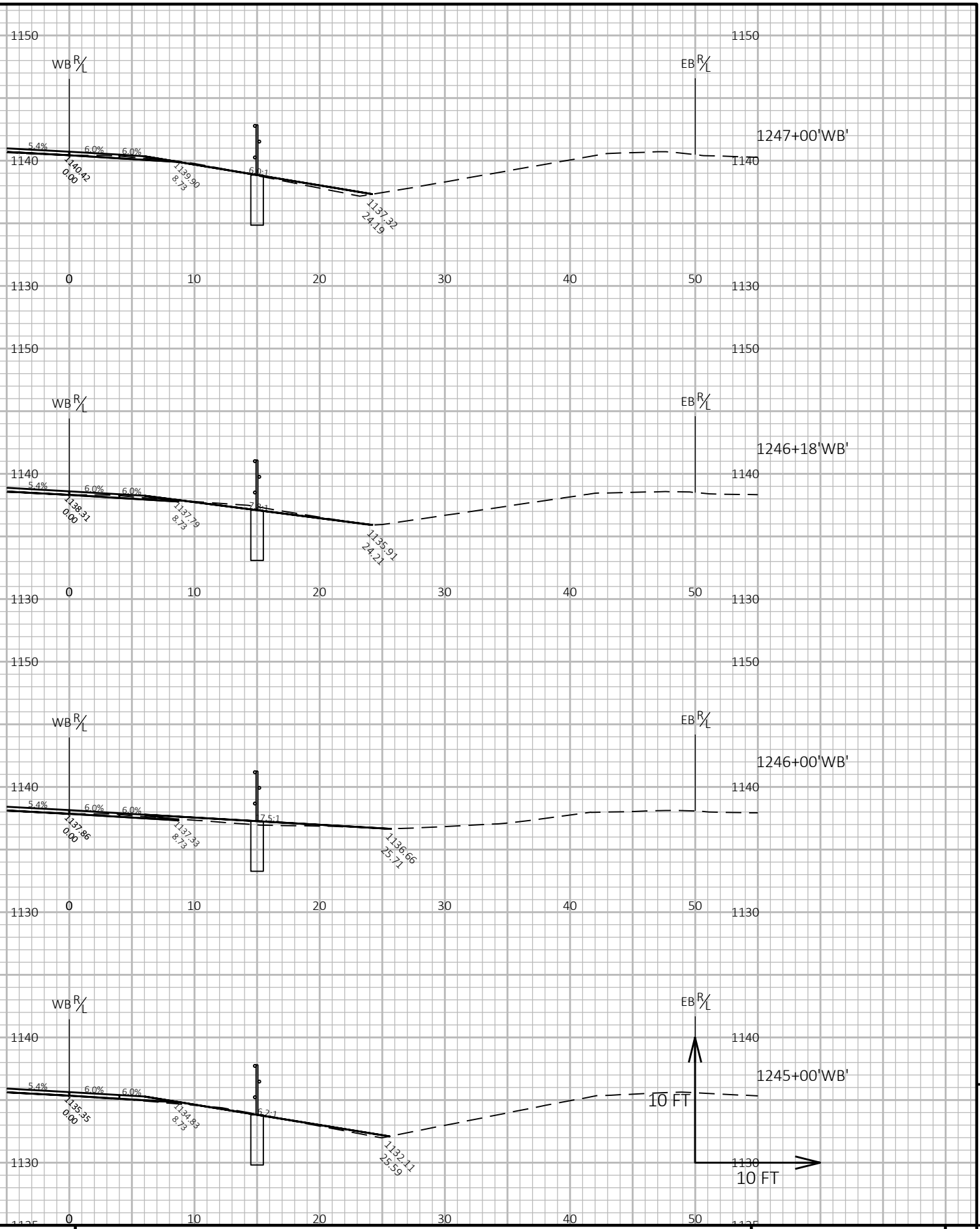
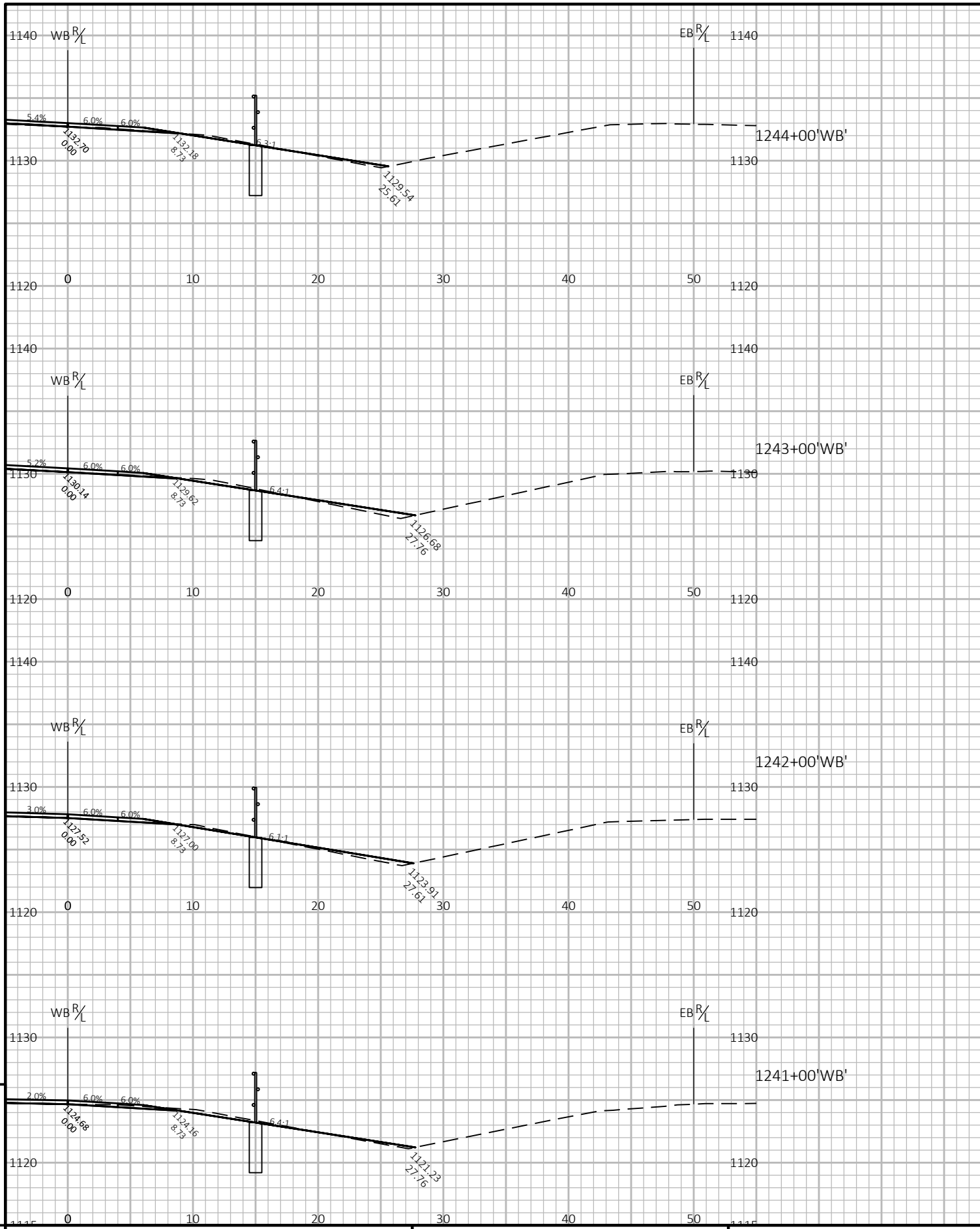
CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY

SHEET

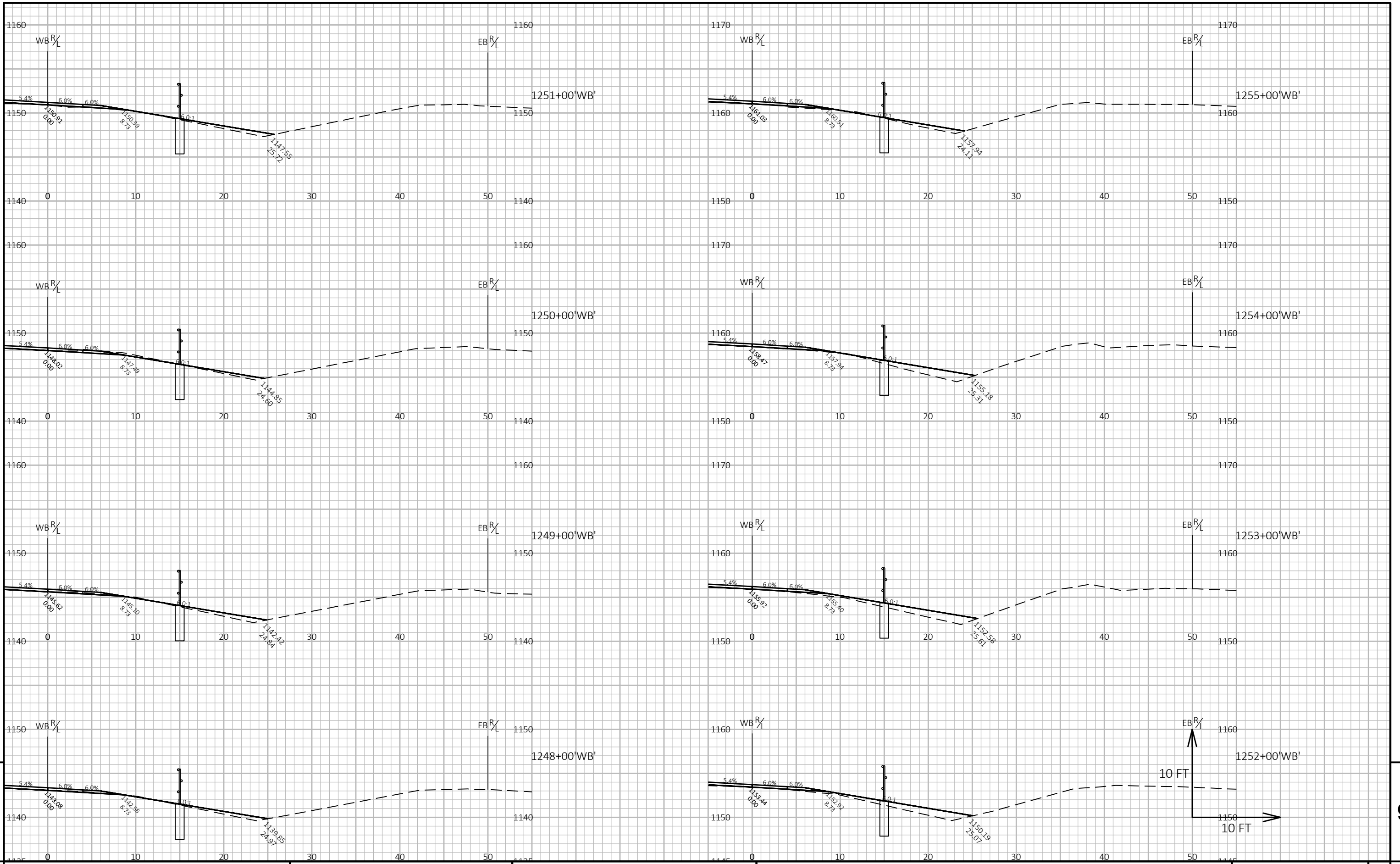
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PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY SHEET E



PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY SHEET E



PROJECT NO: 1204-05-76

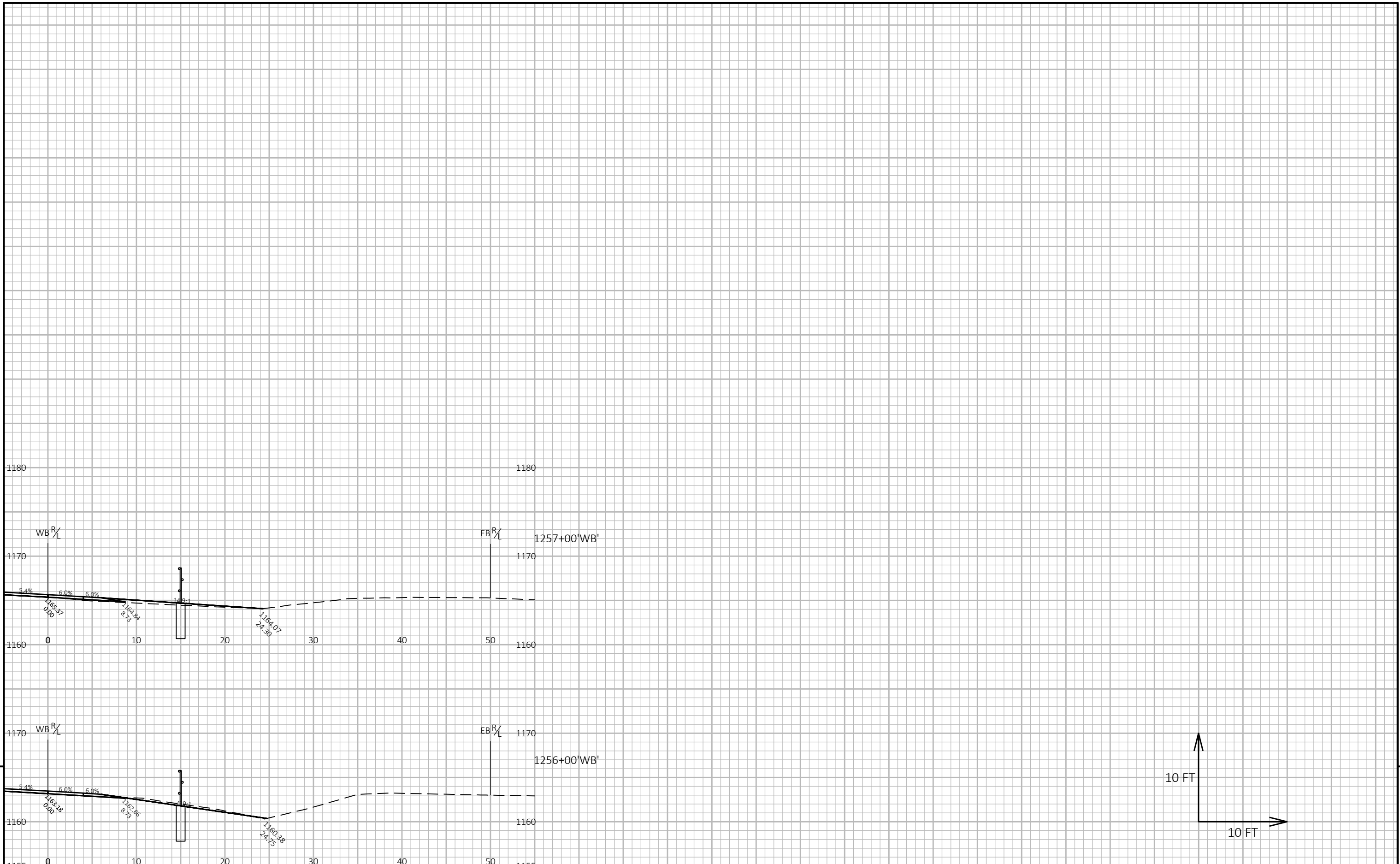
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COUNTY: IOWA & DANE

CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY

SHEET

E



PROJECT NO: 1204-05-76

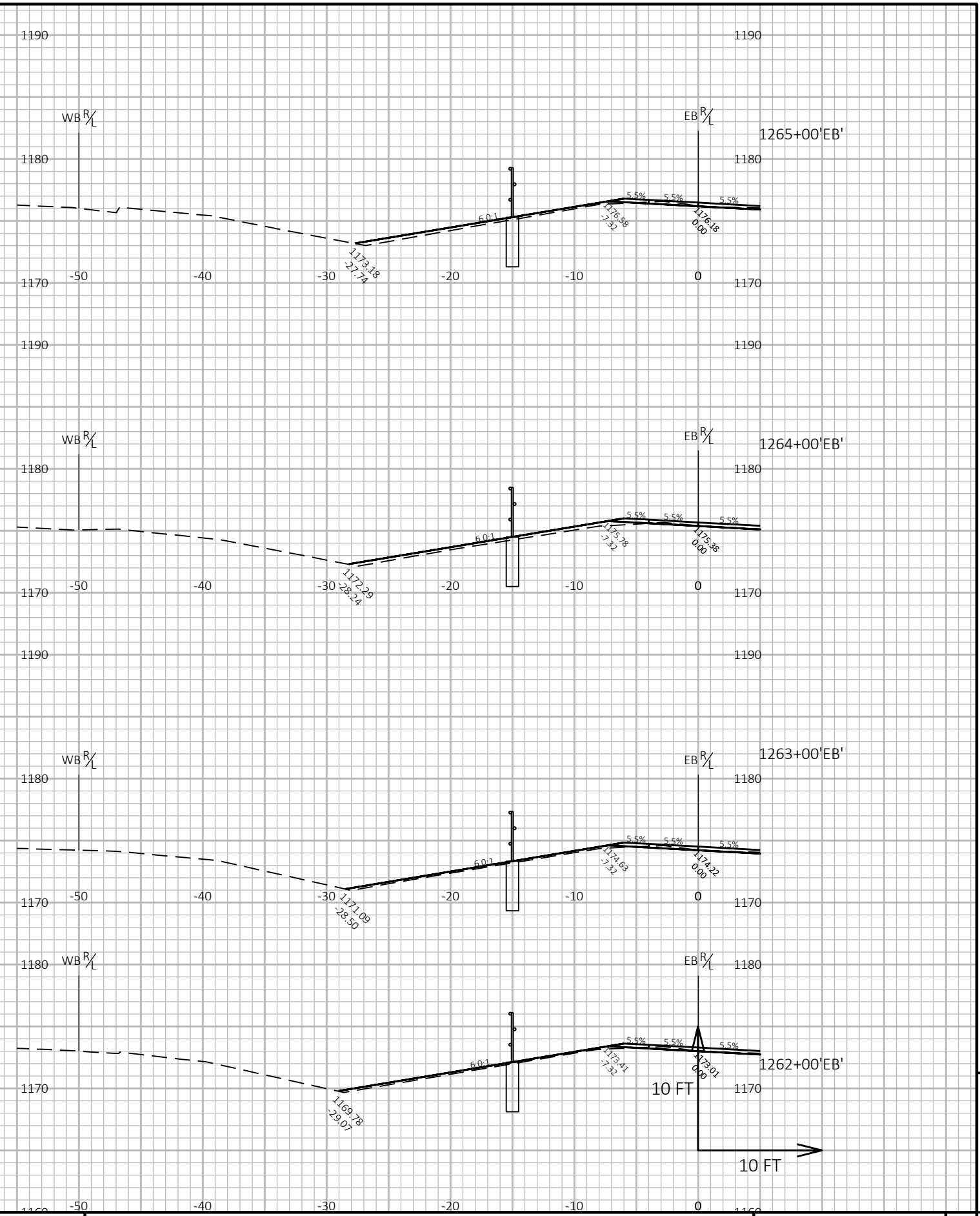
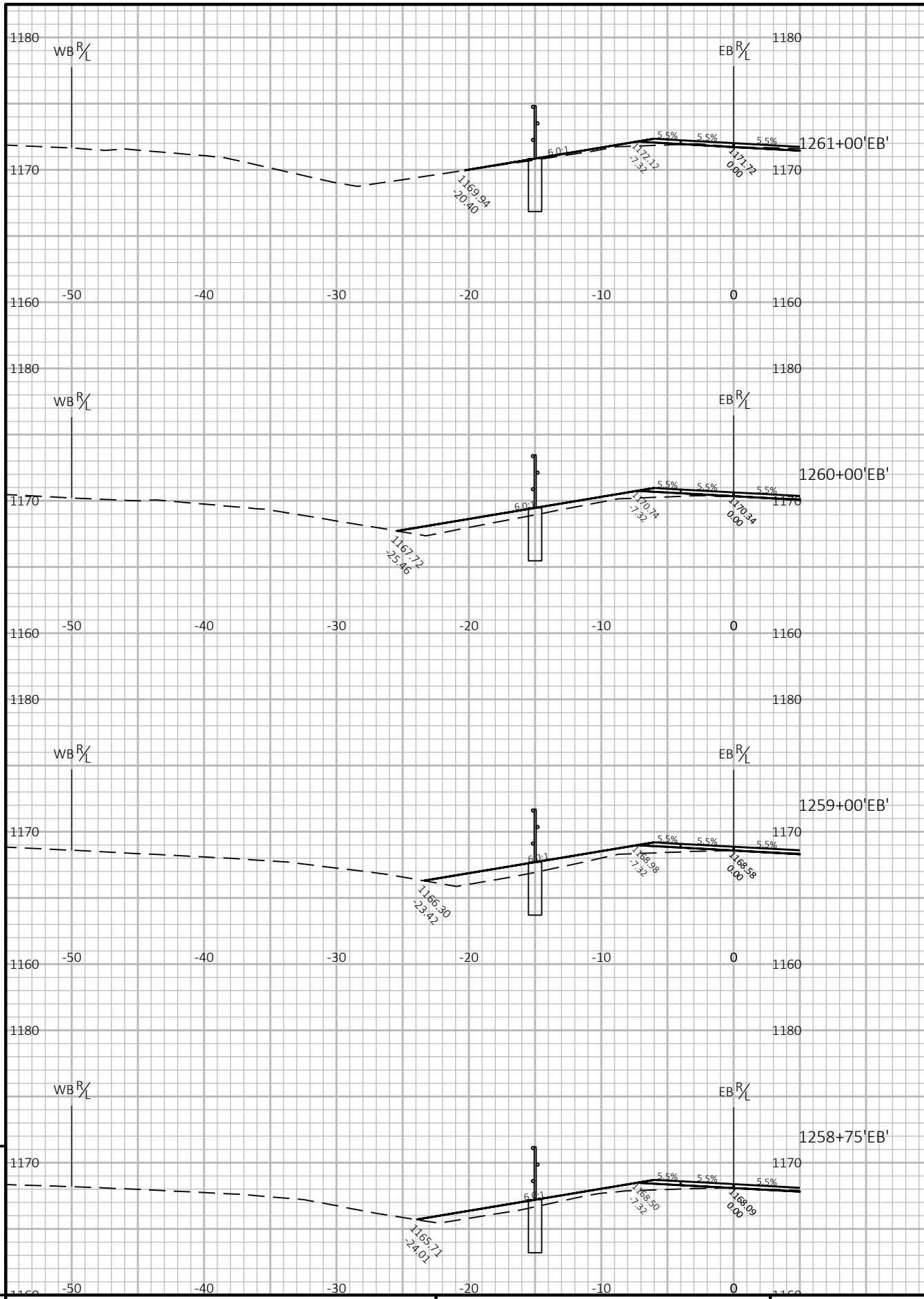
HWY: USH 18

COUNTY: IOWA & DANE

CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY

SHEET

E



PROJECT NO: 1204-05-76

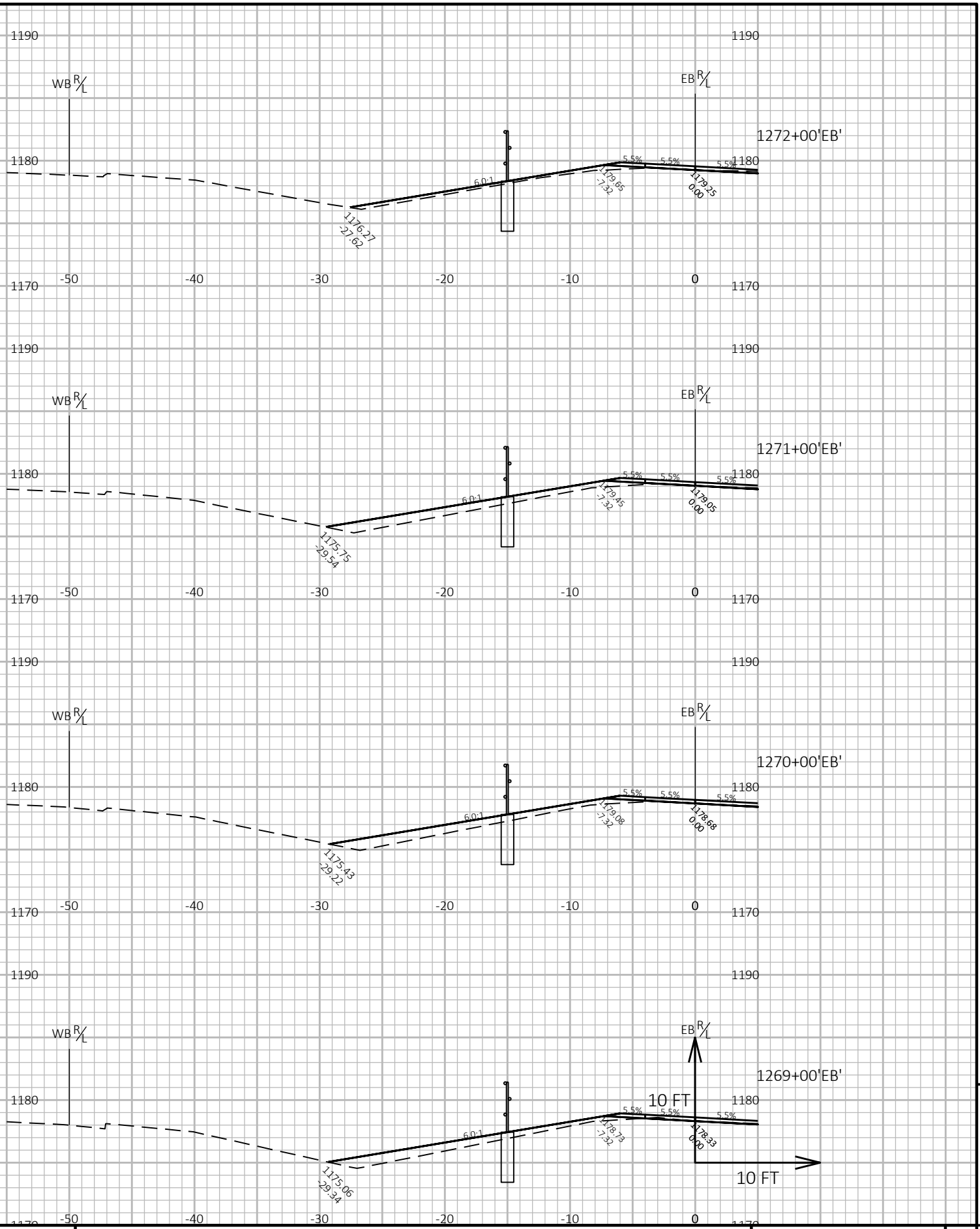
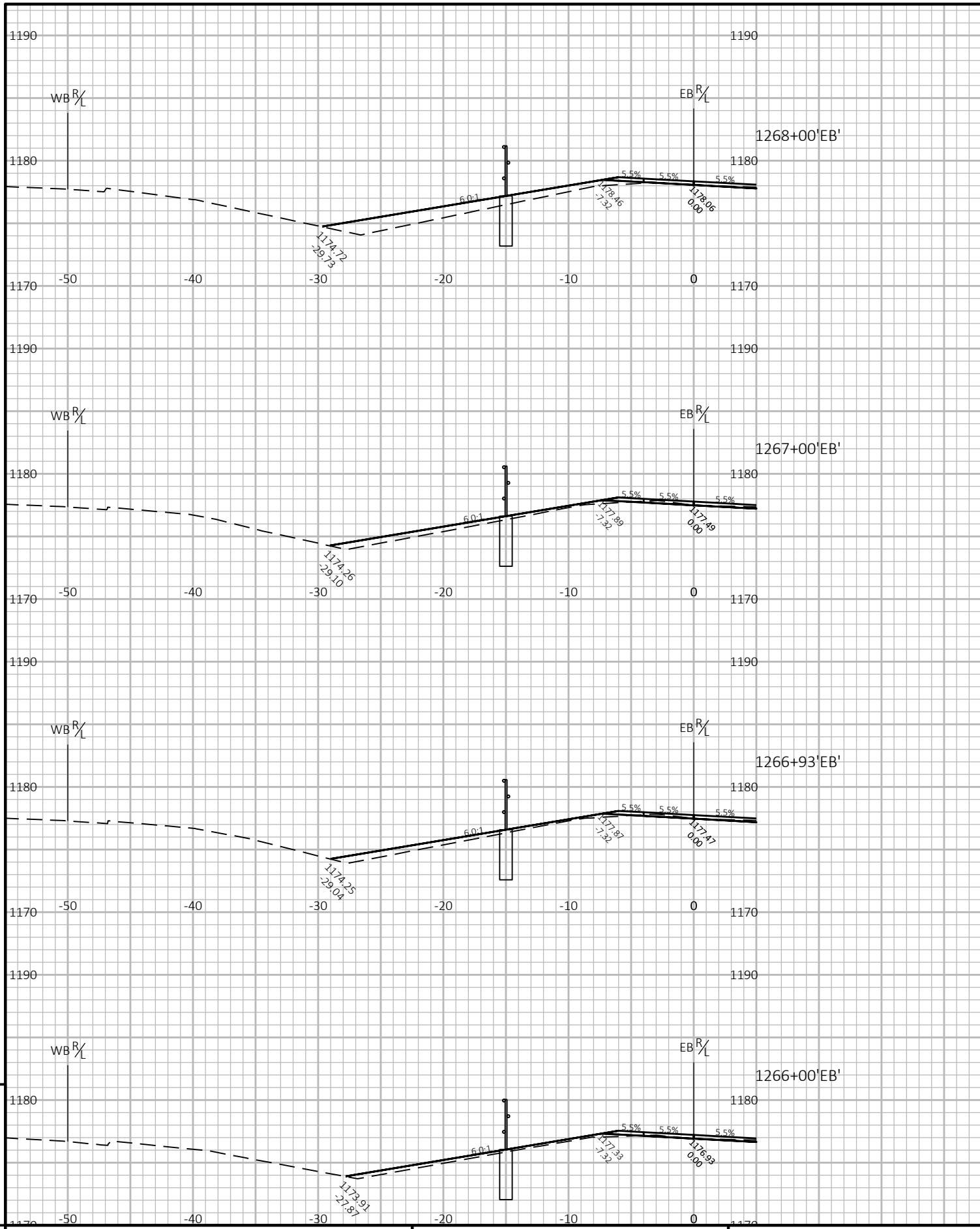
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COUNTY: IOWA & DANE

CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY

SHEET

E



PROJECT NO: 1204-05-76

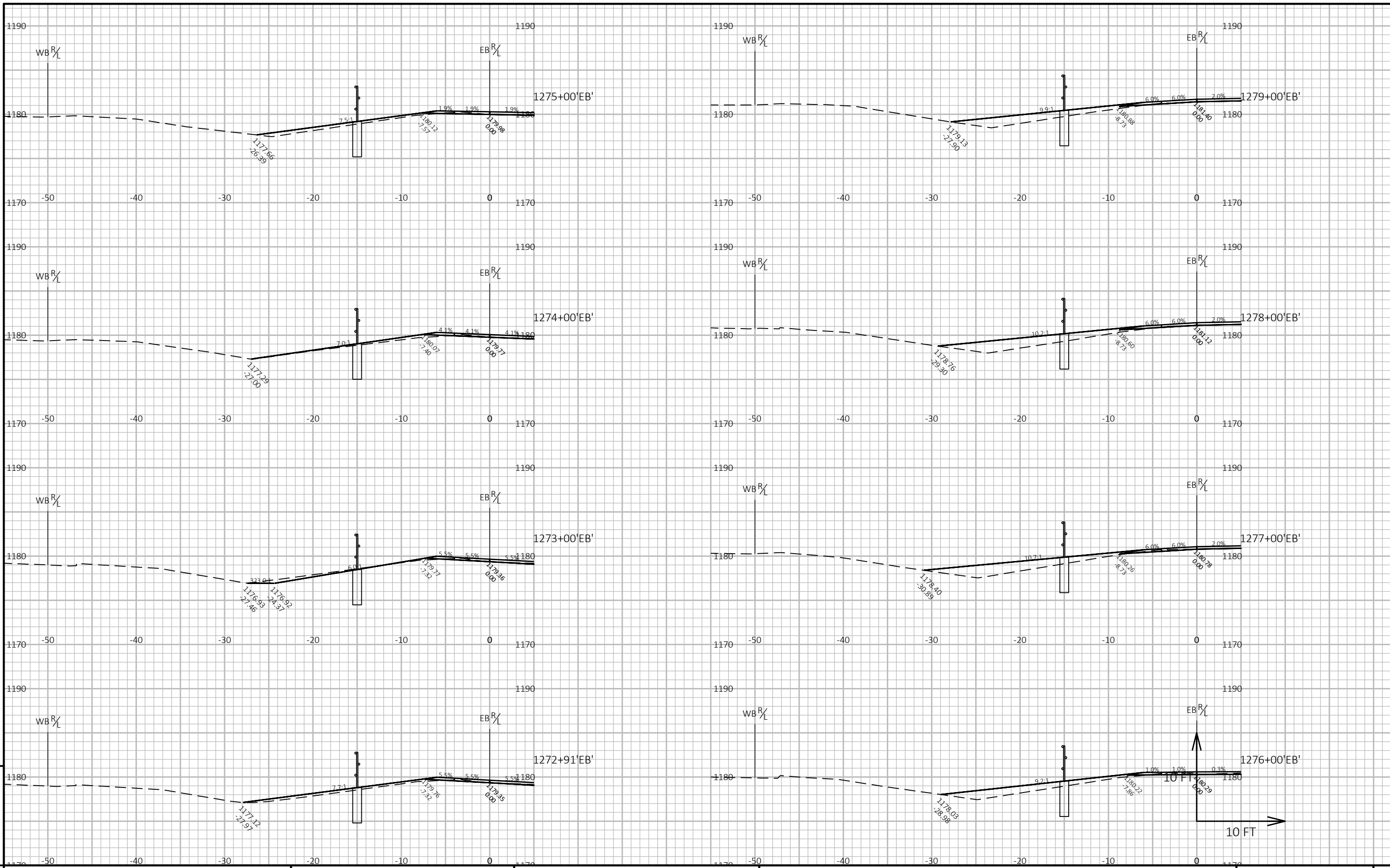
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COUNTY: IOWA & DANE

CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY

SHEET

E



PROJECT NO: 1204-05-76

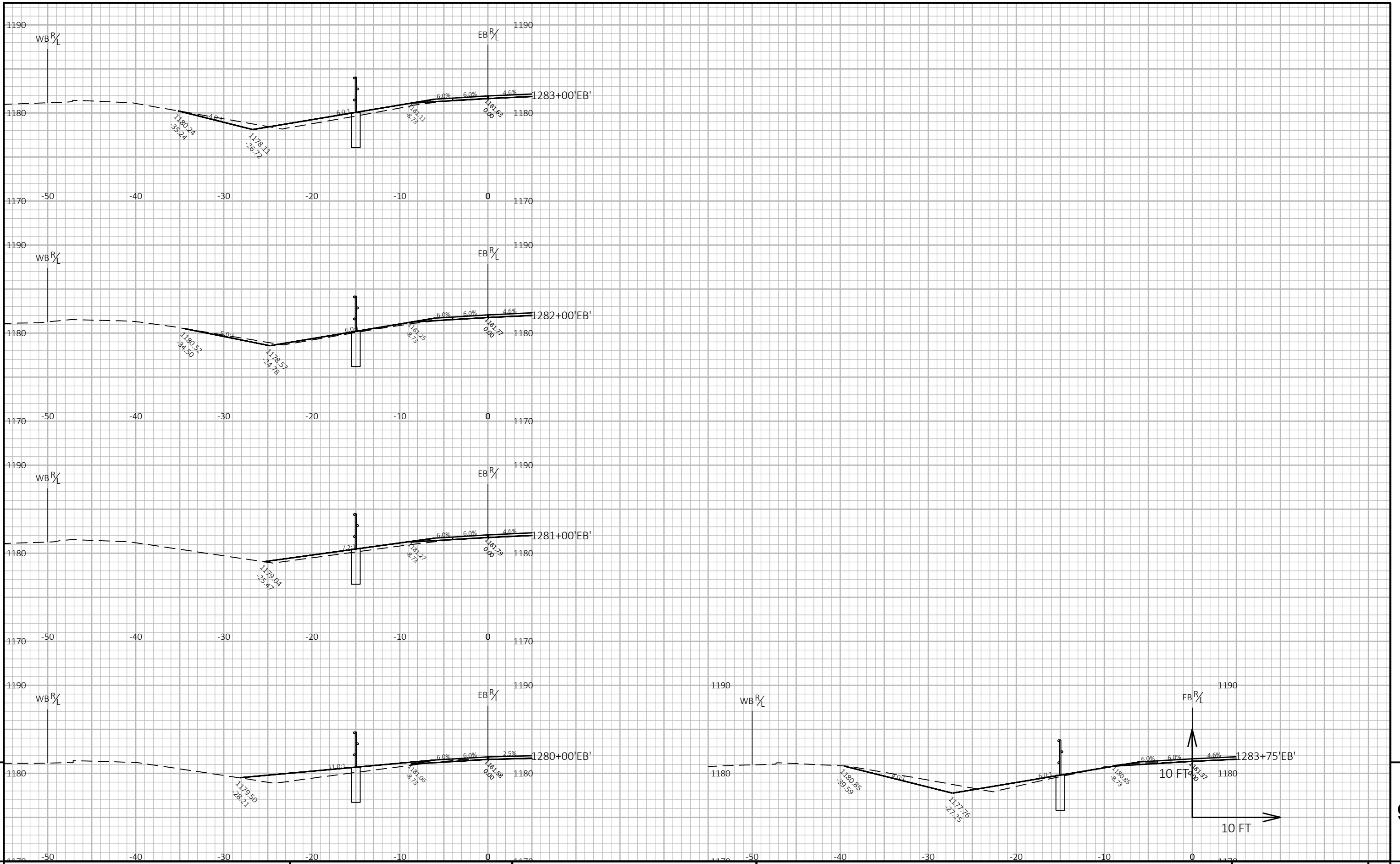
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COUNTY: IOWA & DANE

CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY

SHEET

E



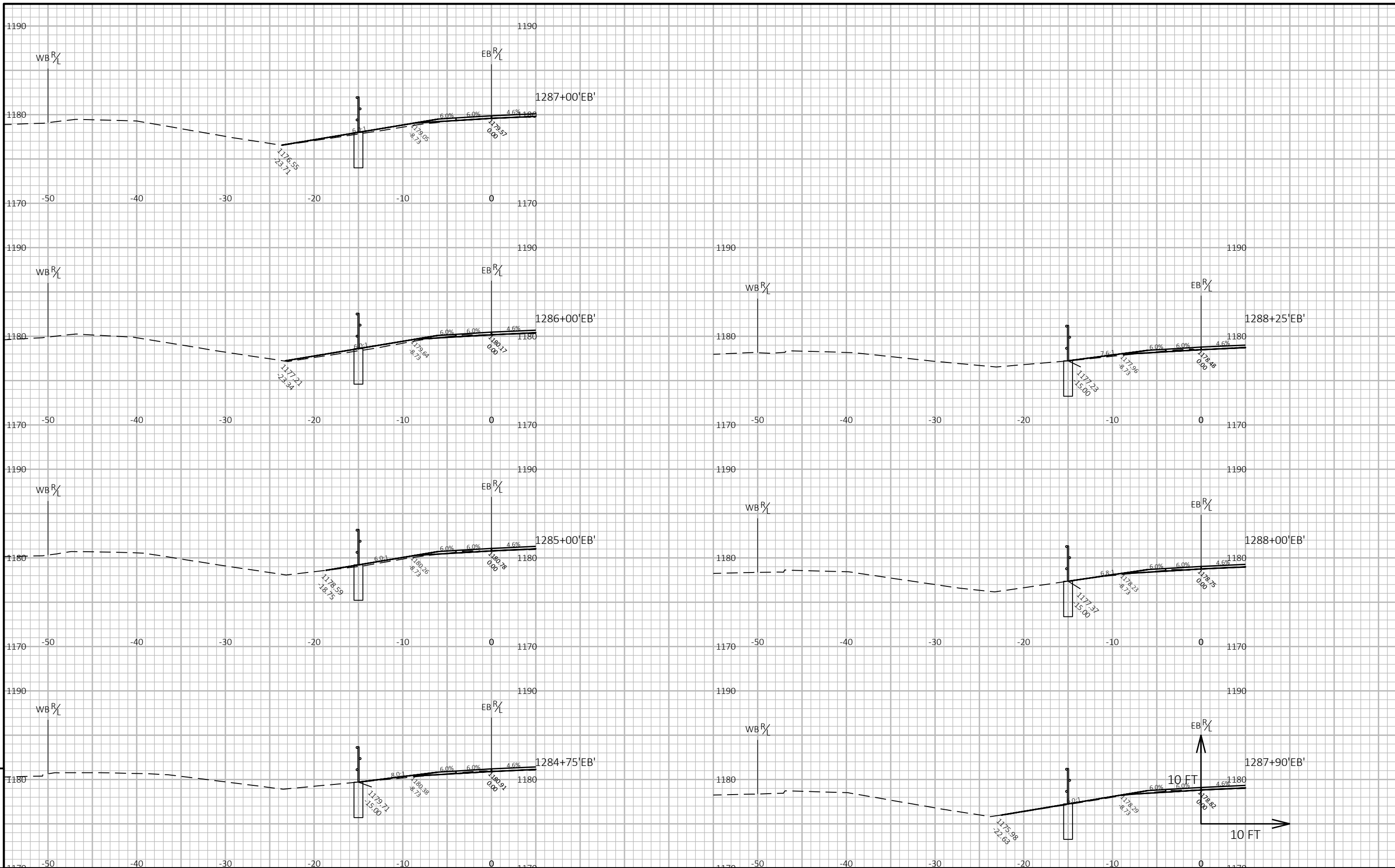
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PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY SHEET E

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LAYOUT NAME - 23



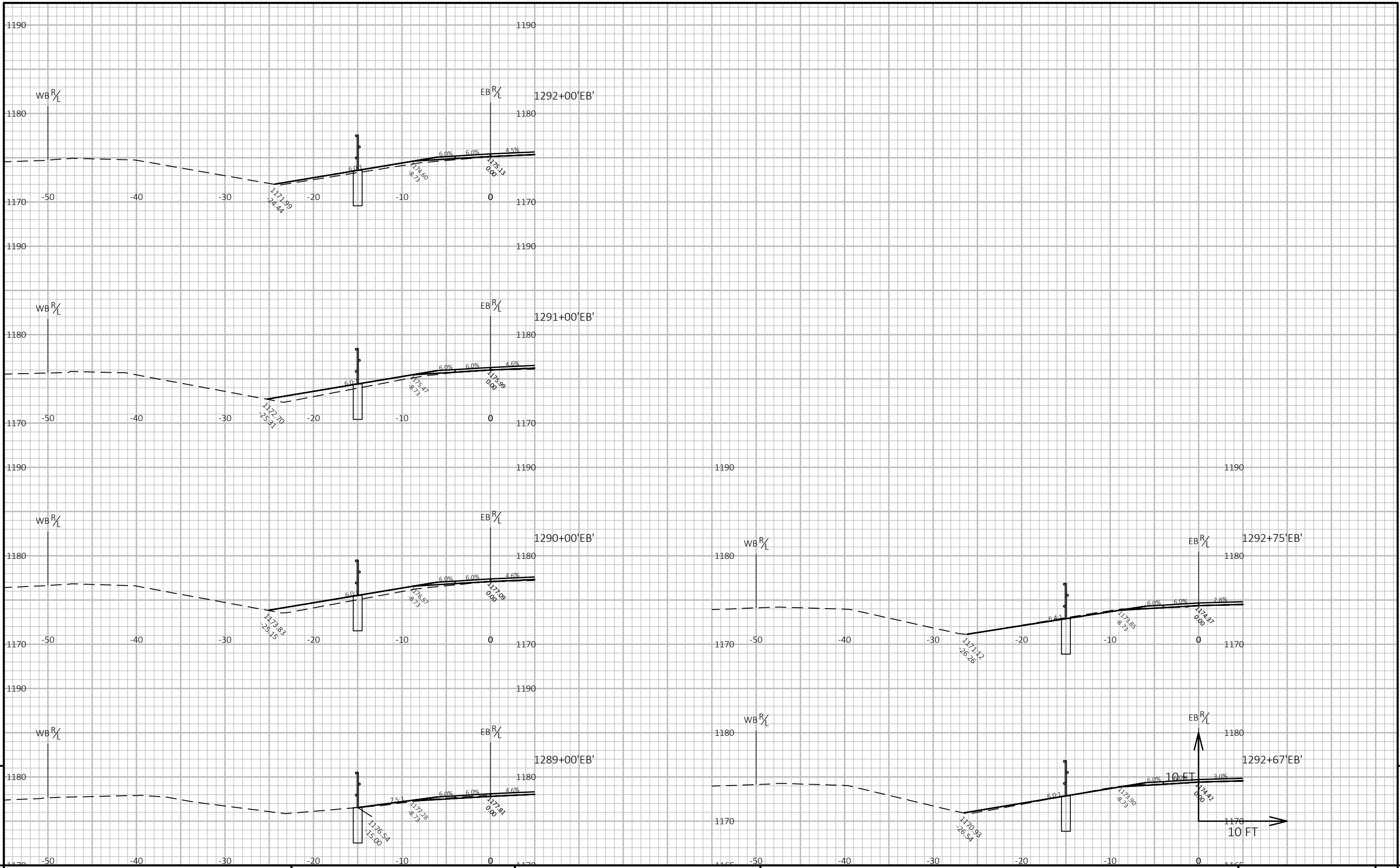
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PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY SHEET E

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LAYOUT NAME - 24



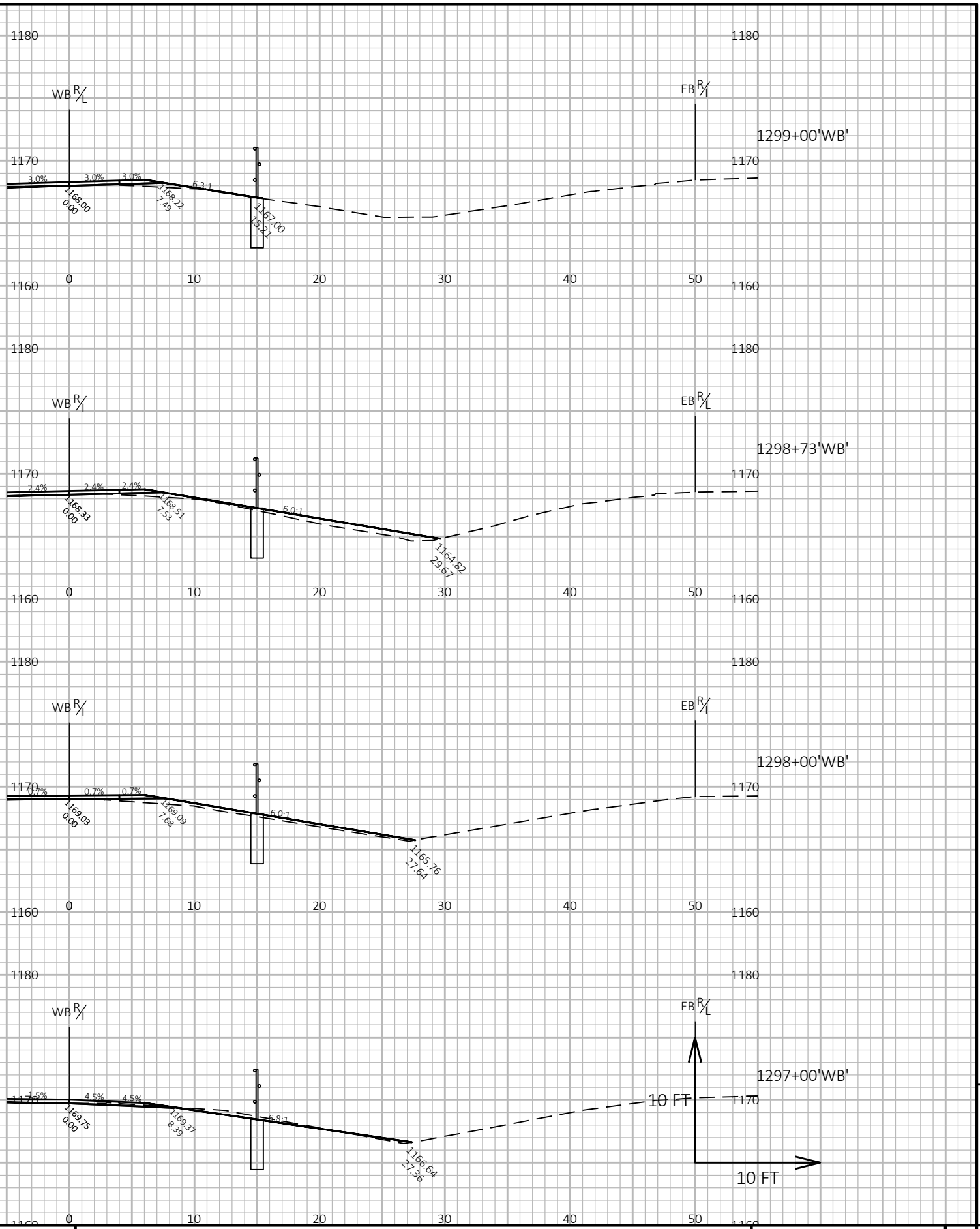
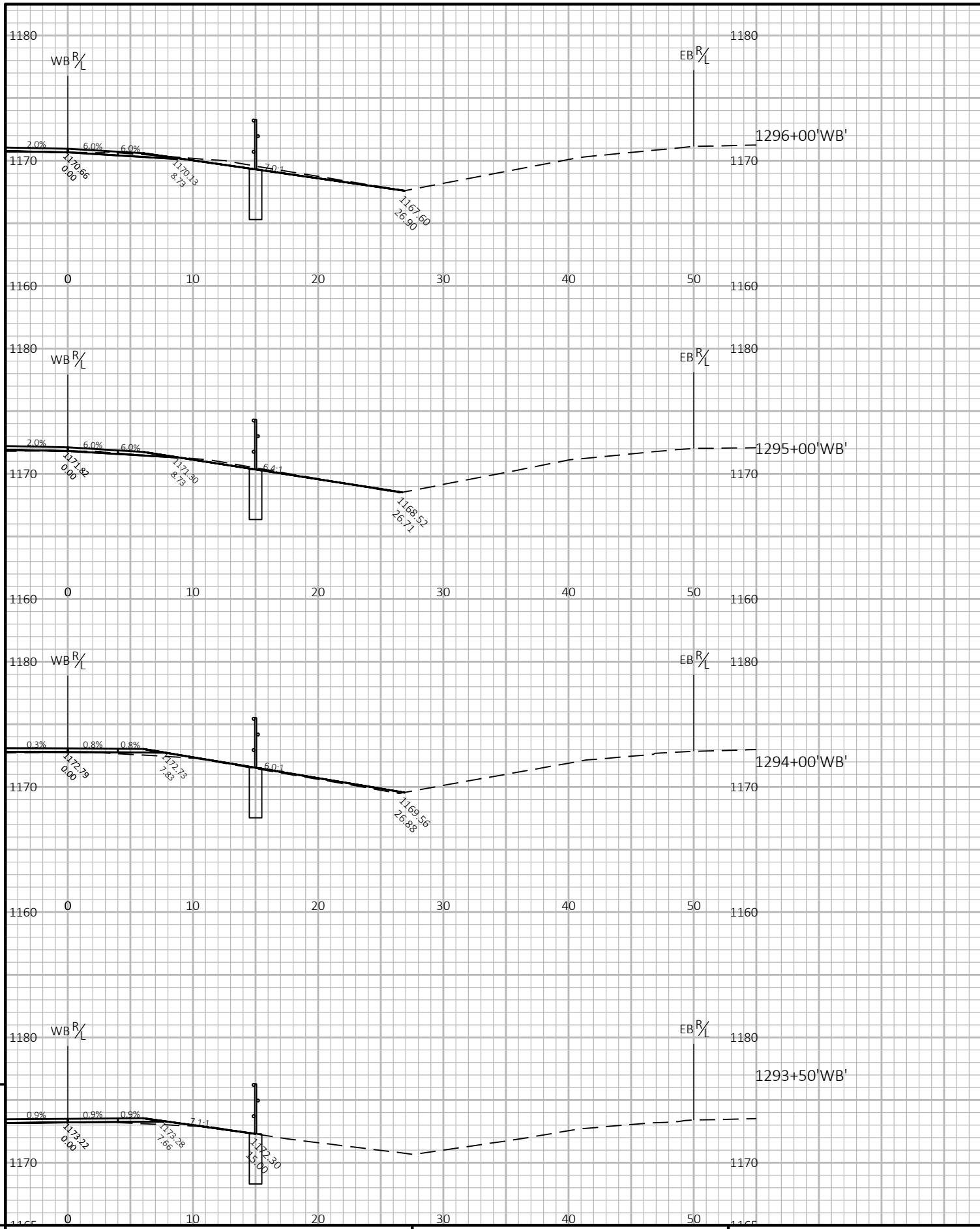
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PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY SHEET E

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LAYOUT NAME - 25



PROJECT NO: 1204-05-76

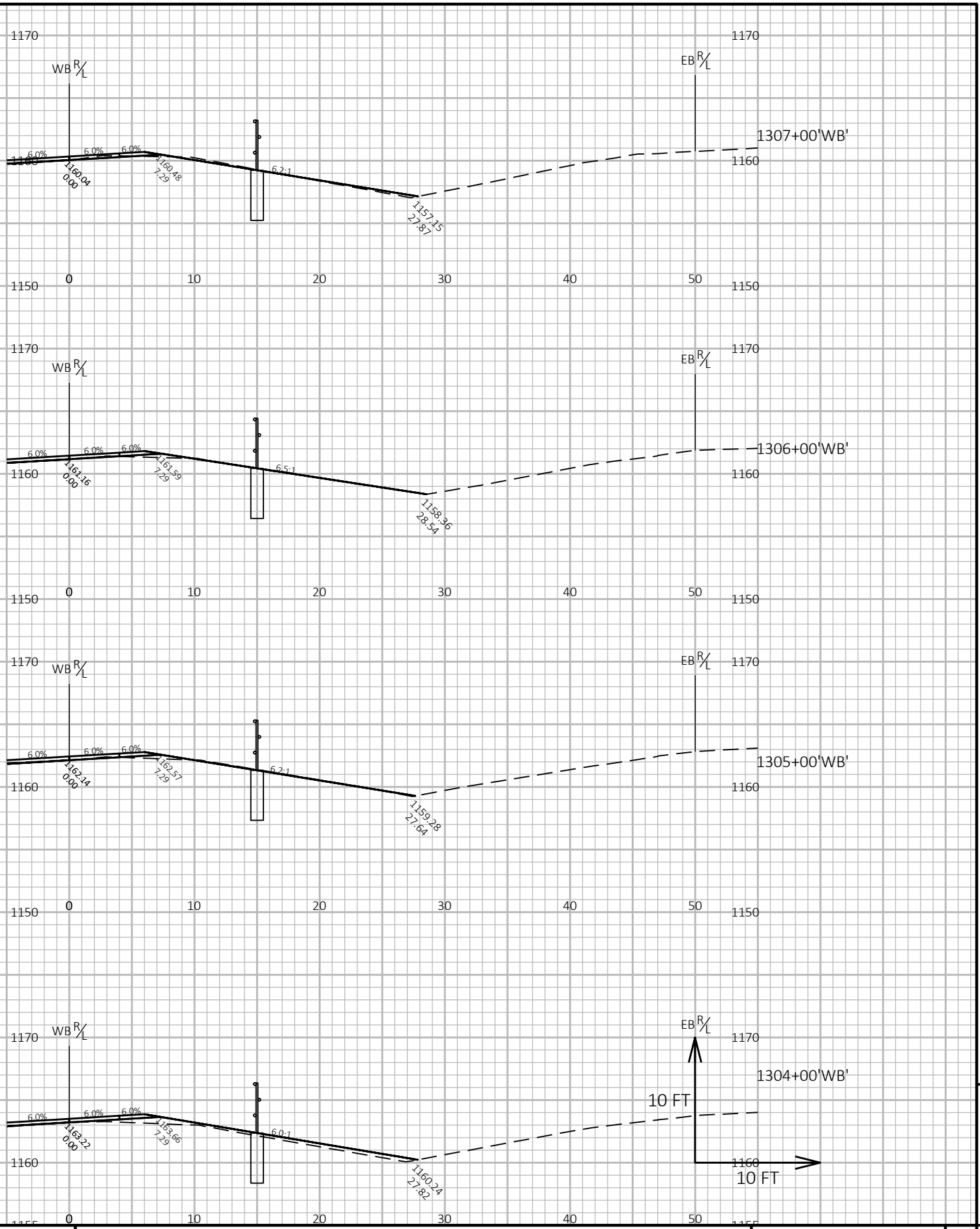
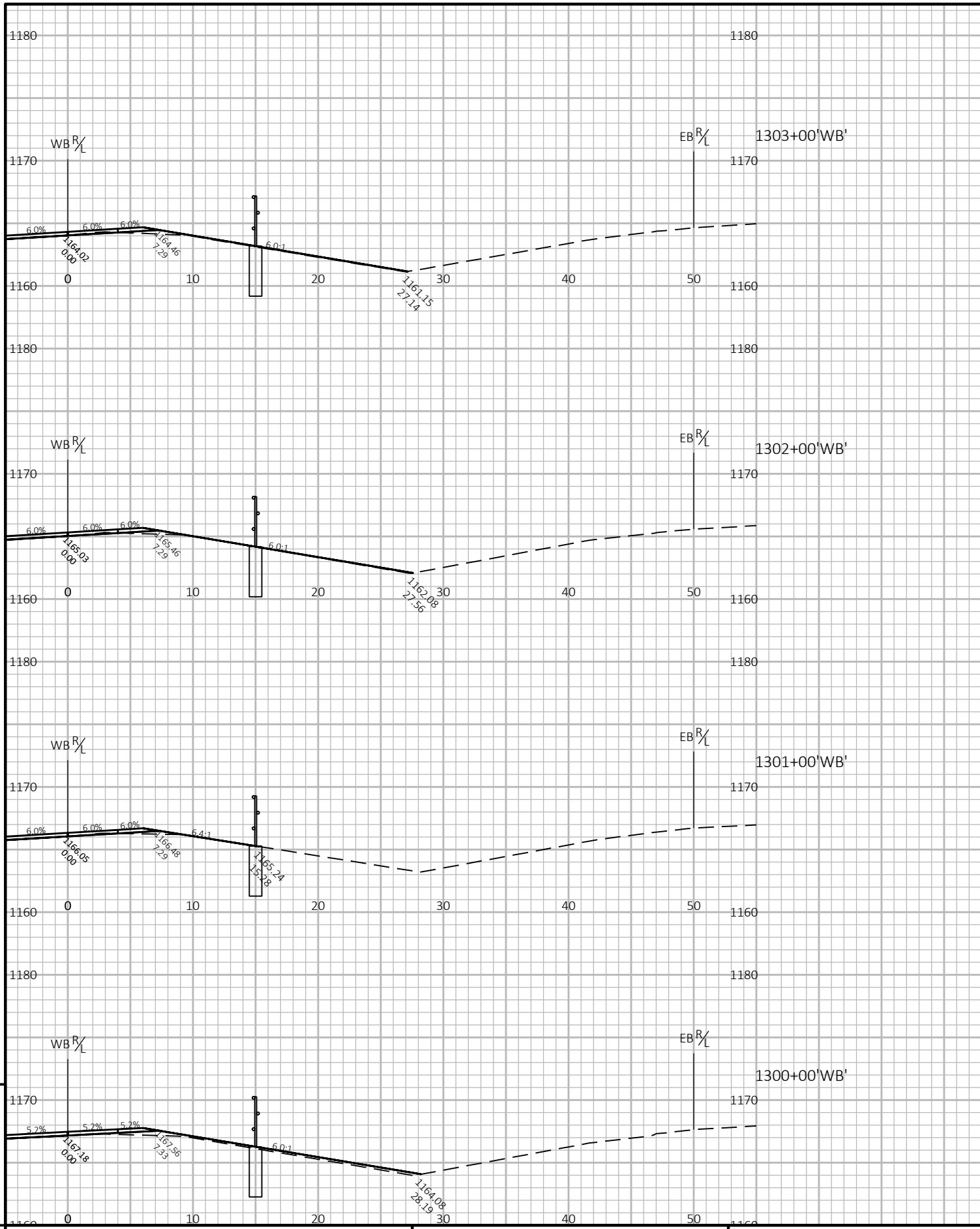
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COUNTY: IOWA & DANE

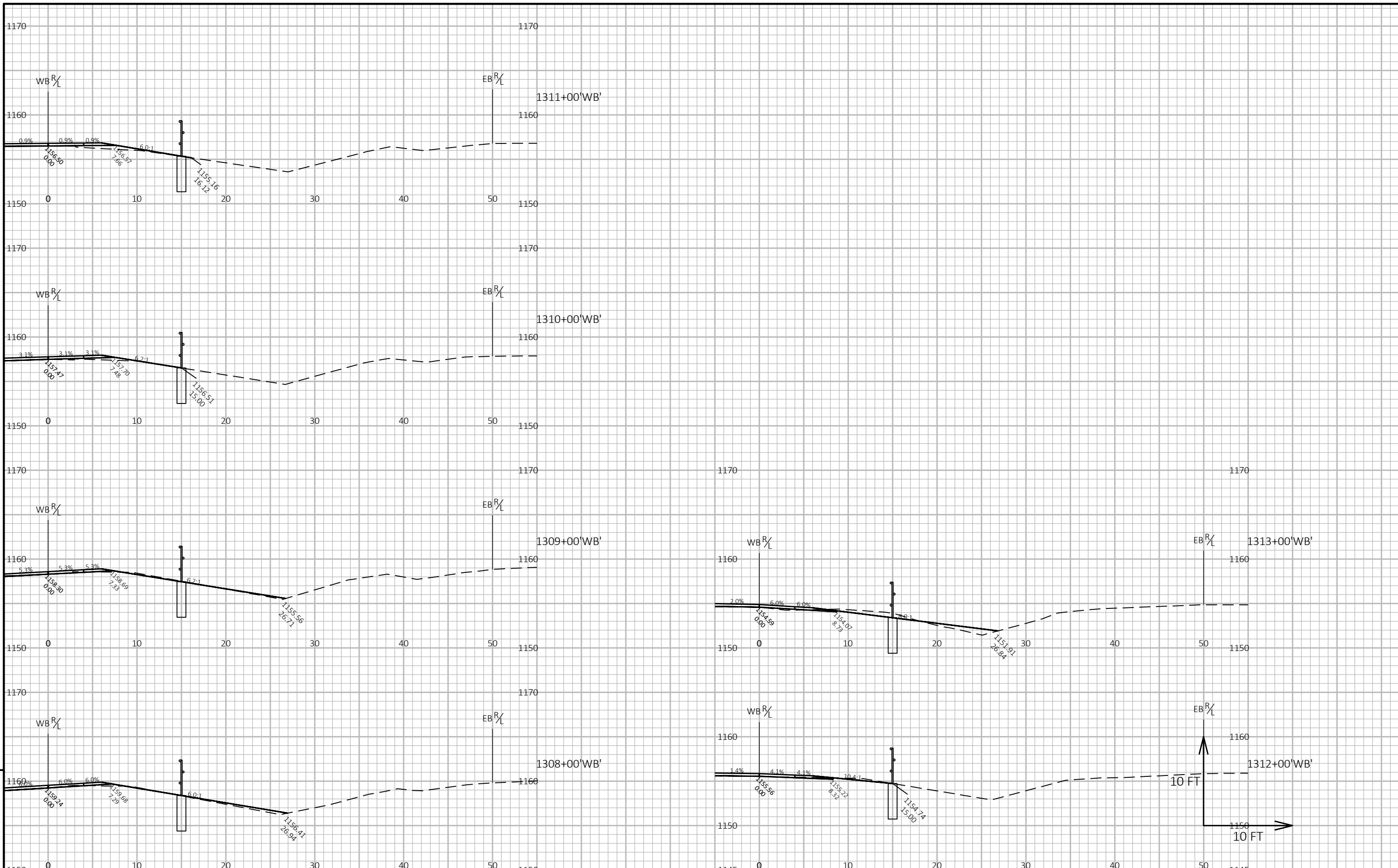
CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY

SHEET

E



PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY SHEET E



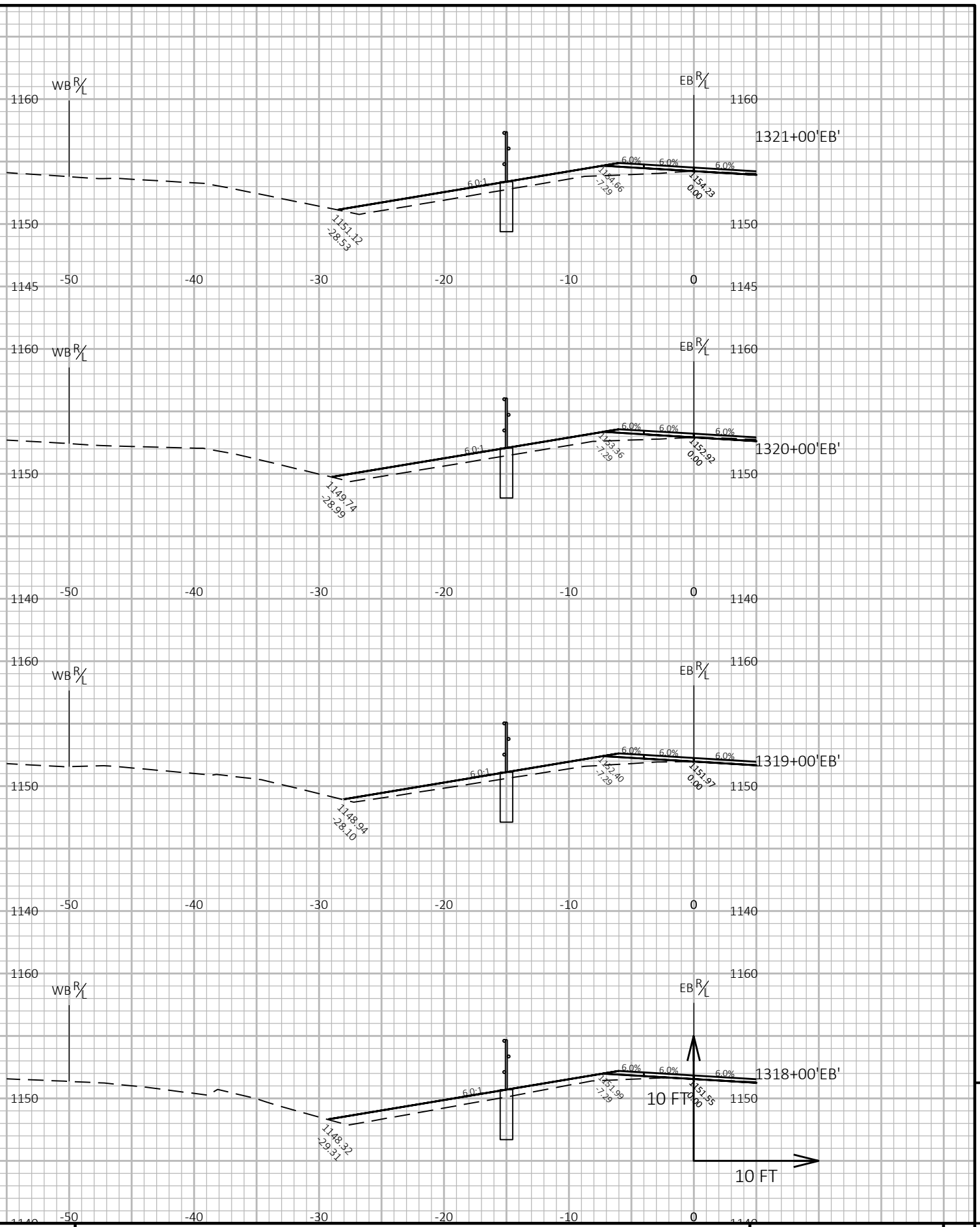
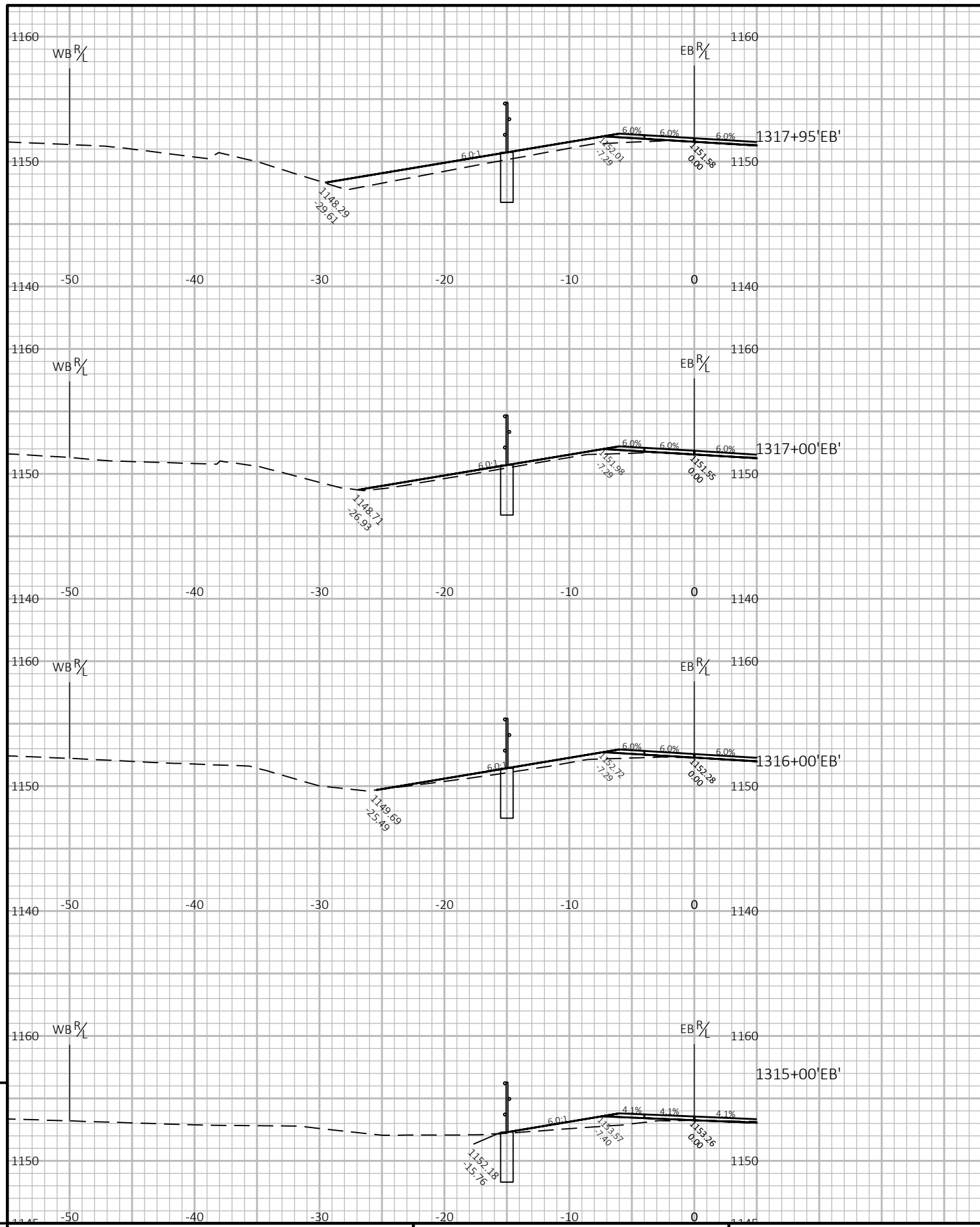
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PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY SHEET E

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LAYOUT NAME - 28



PROJECT NO: 1204-05-76

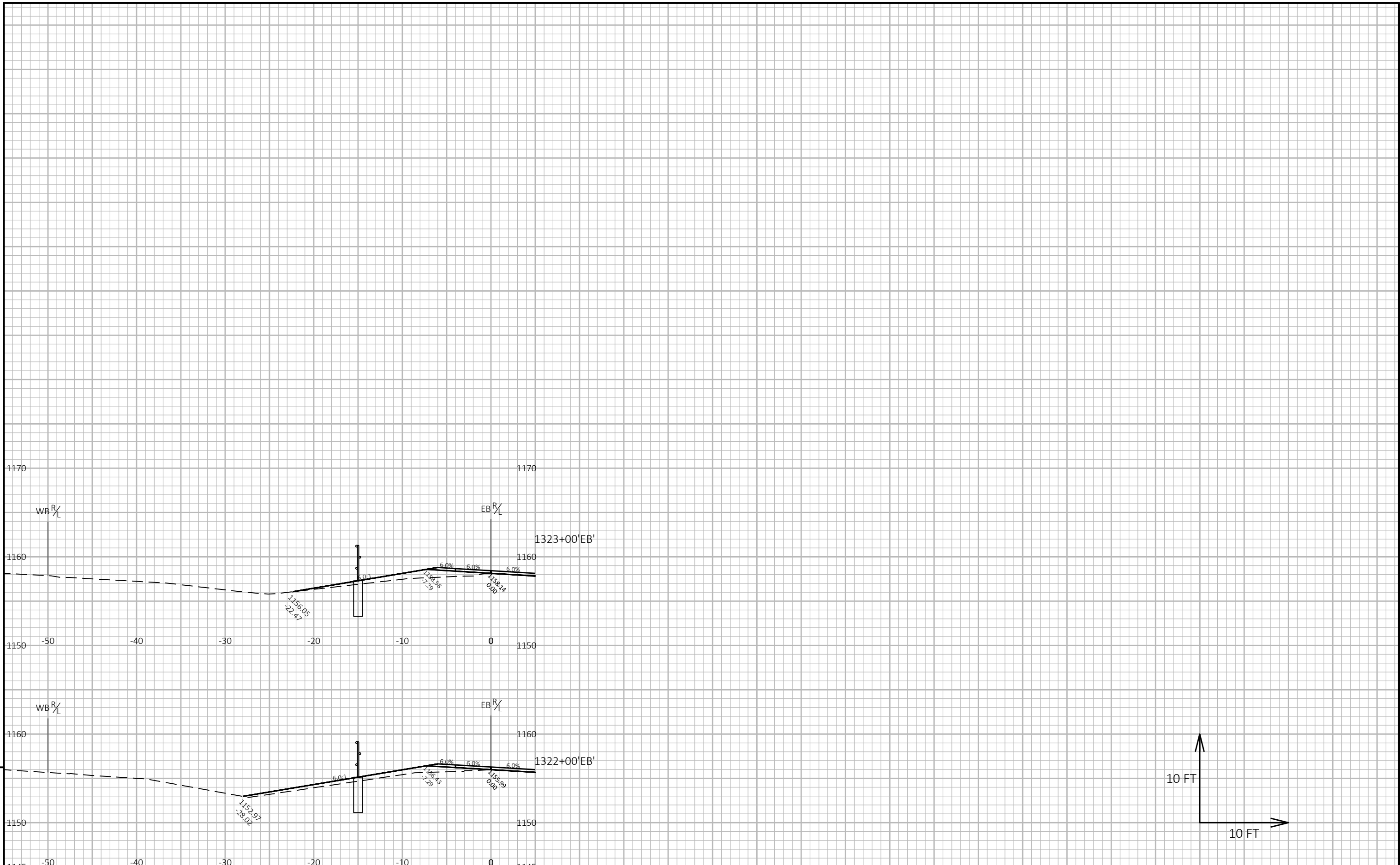
HWY: USH 18

COUNTY: IOWA & DANE

CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY

SHEET

E



PROJECT NO: 1204-05-76

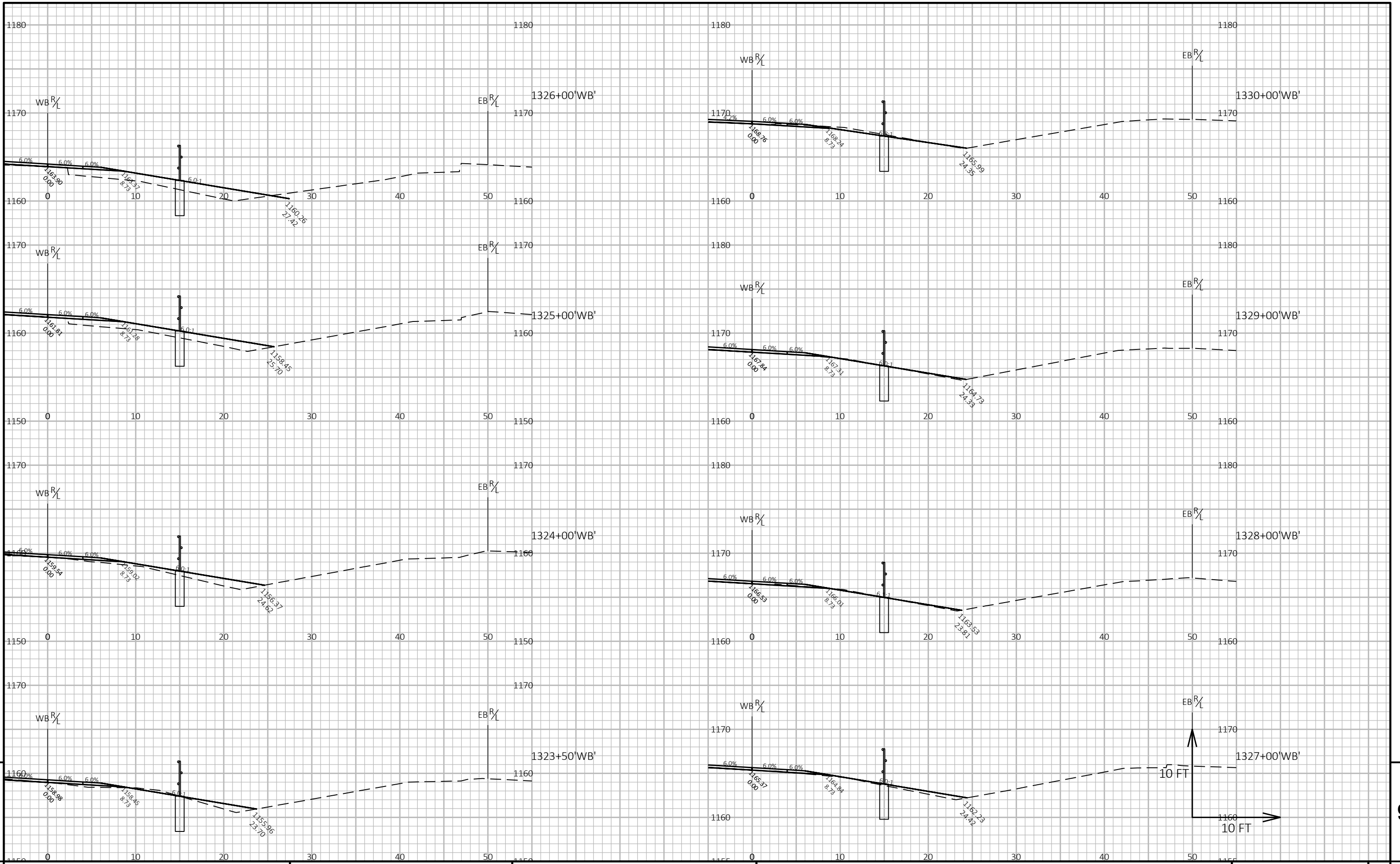
HWY: USH 18

COUNTY: IOWA & DANE

CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY

SHEET

E



PROJECT NO: 1204-05-76

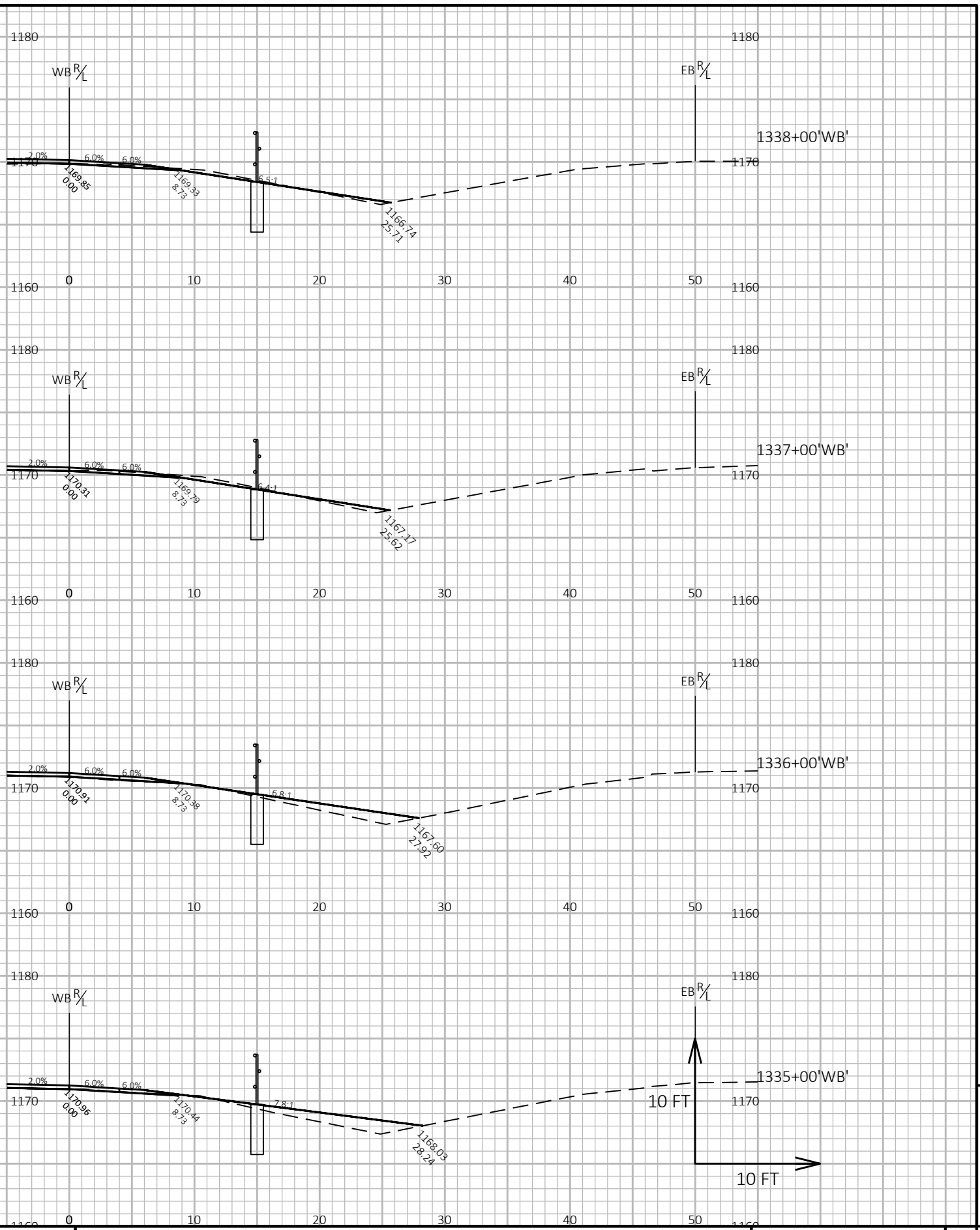
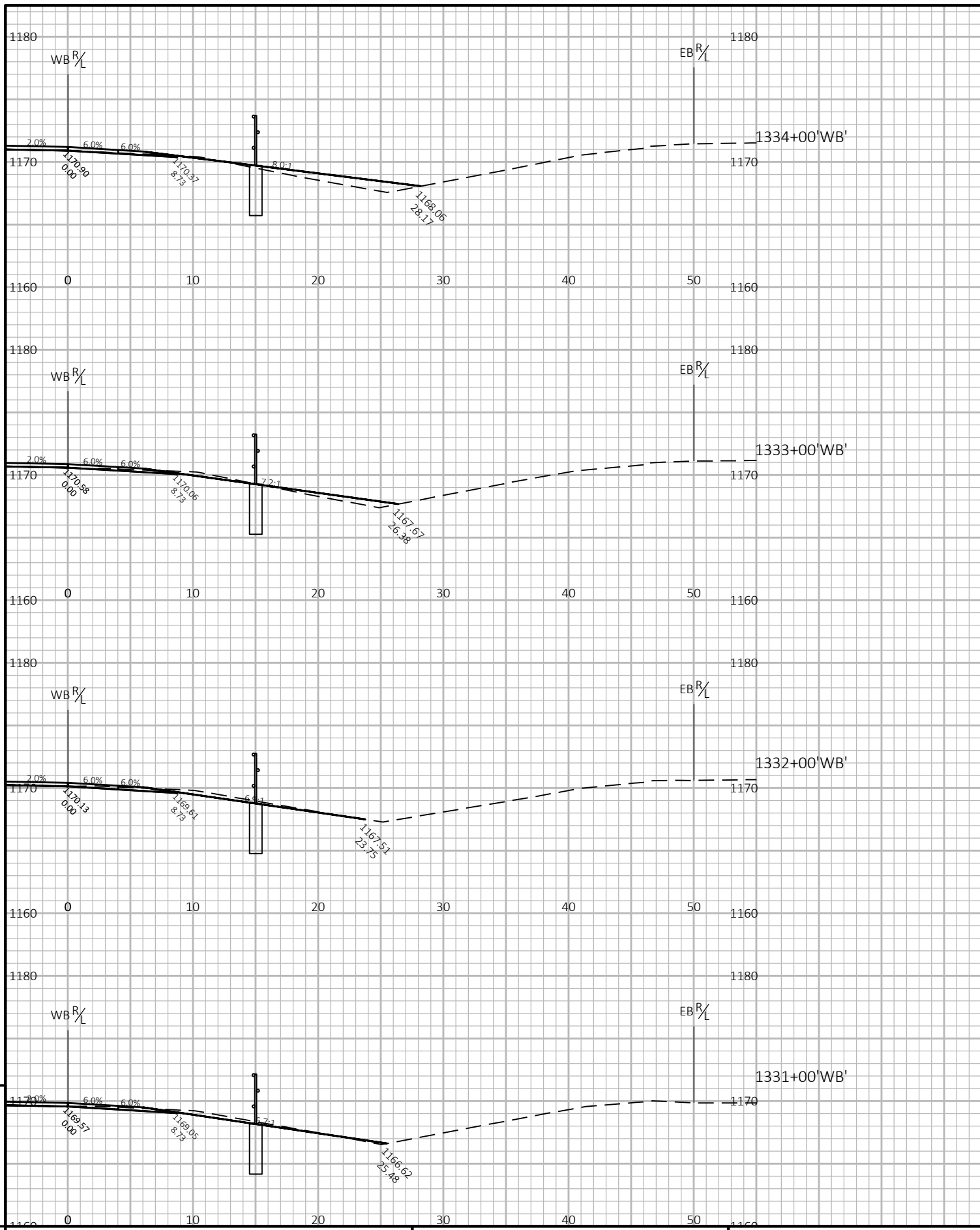
HWY: USH 18

COUNTY: IOWA & DANE

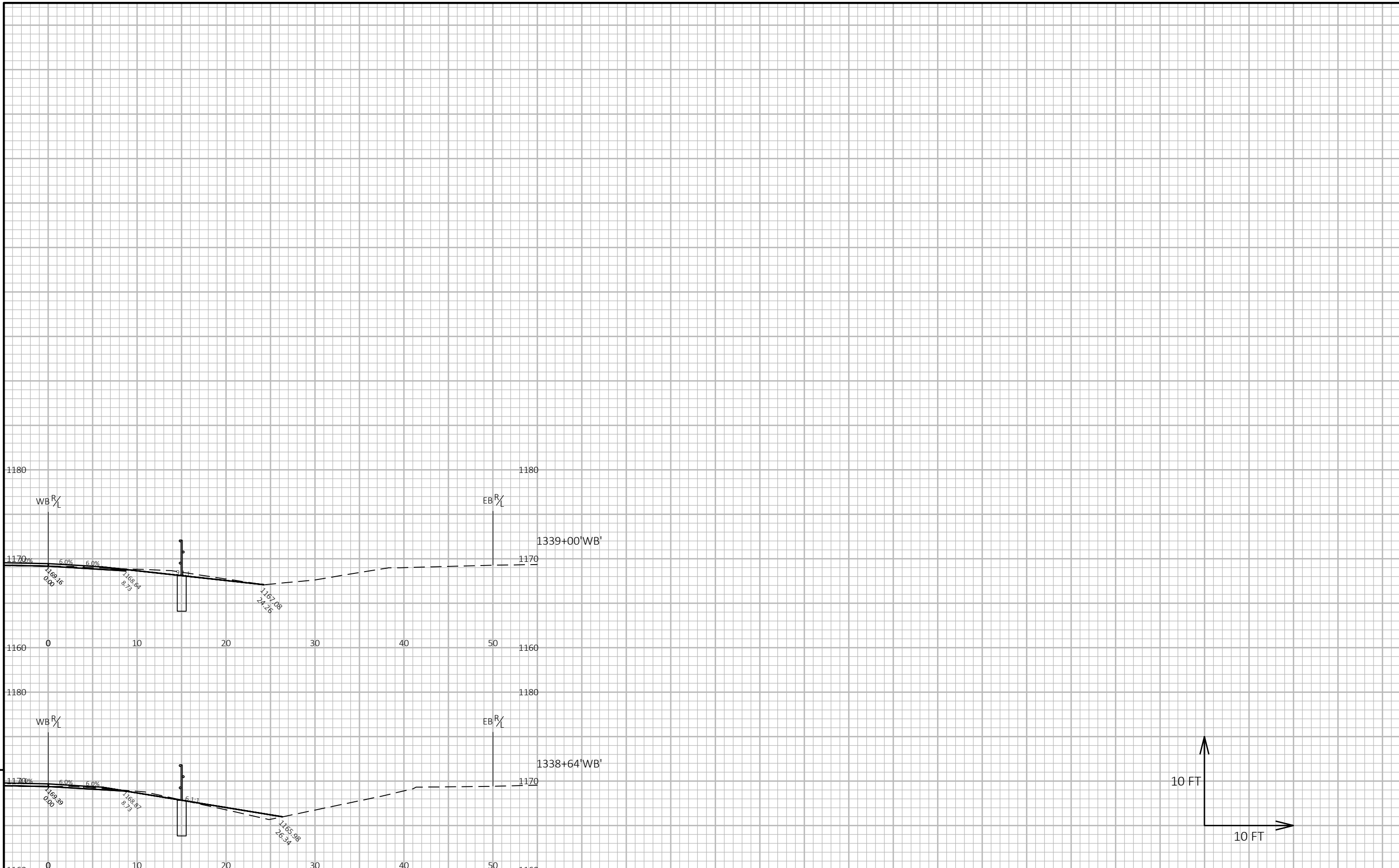
CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY

SHEET

E



PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY SHEET E



PROJECT NO: 1204-05-76

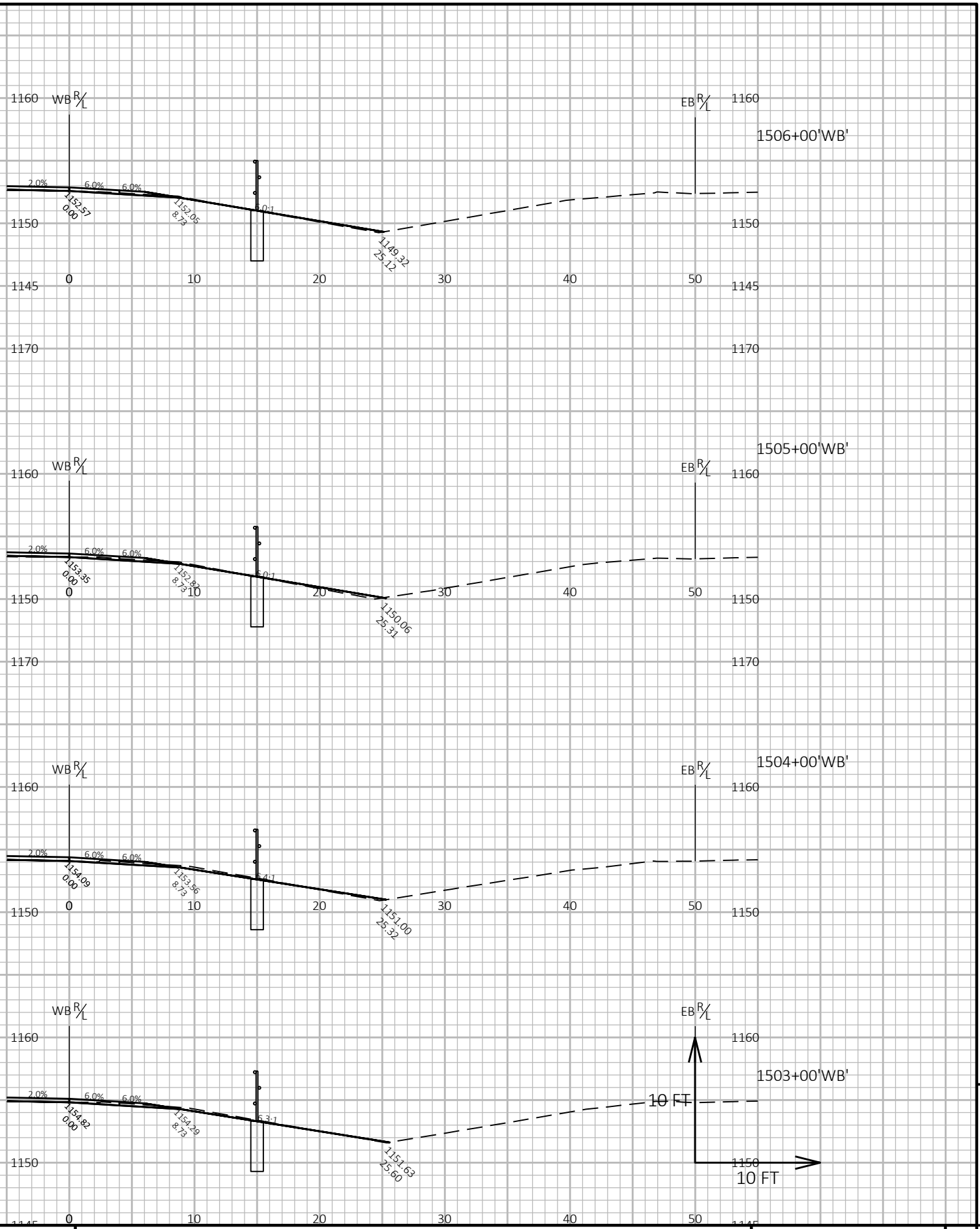
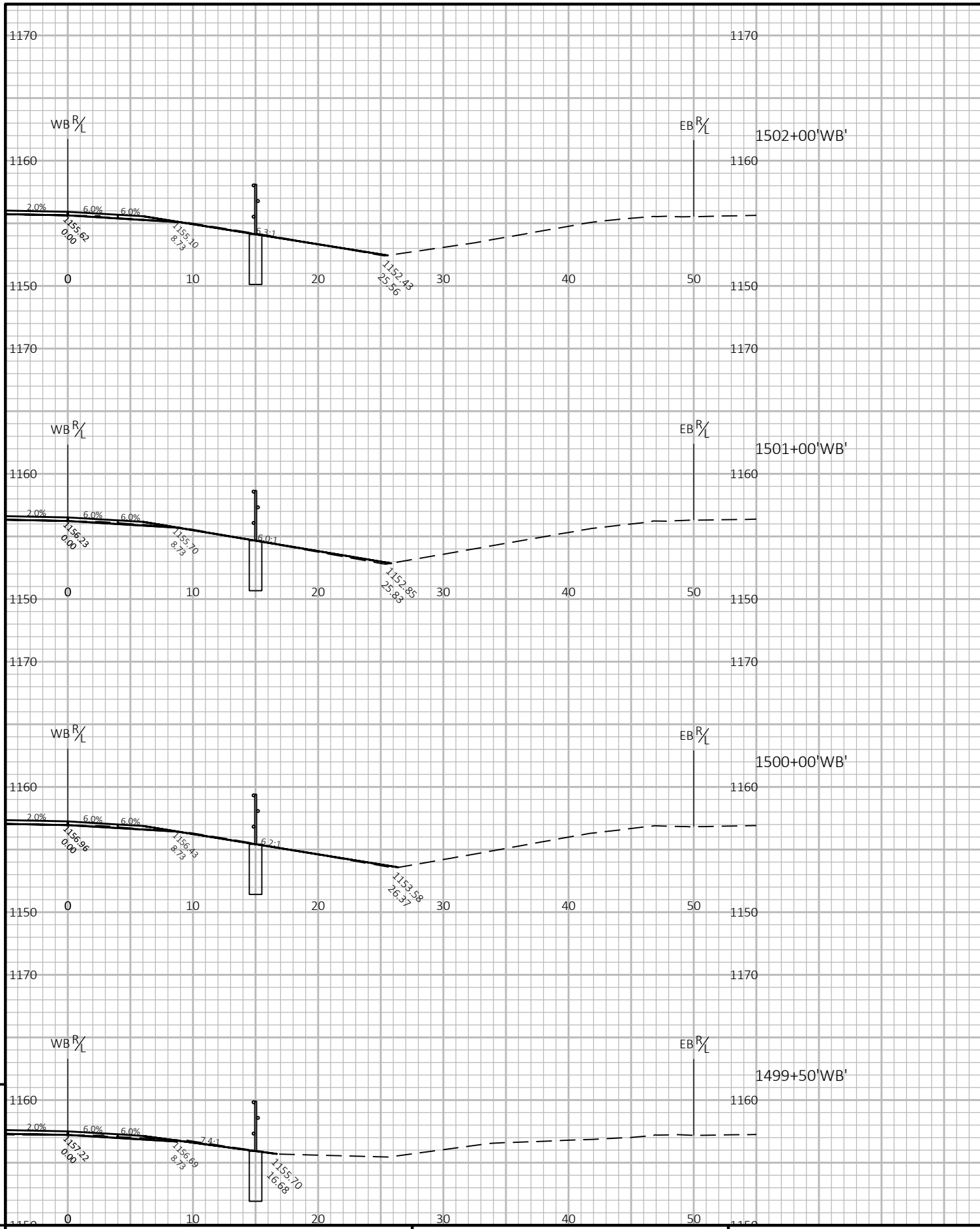
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COUNTY: IOWA & DANE

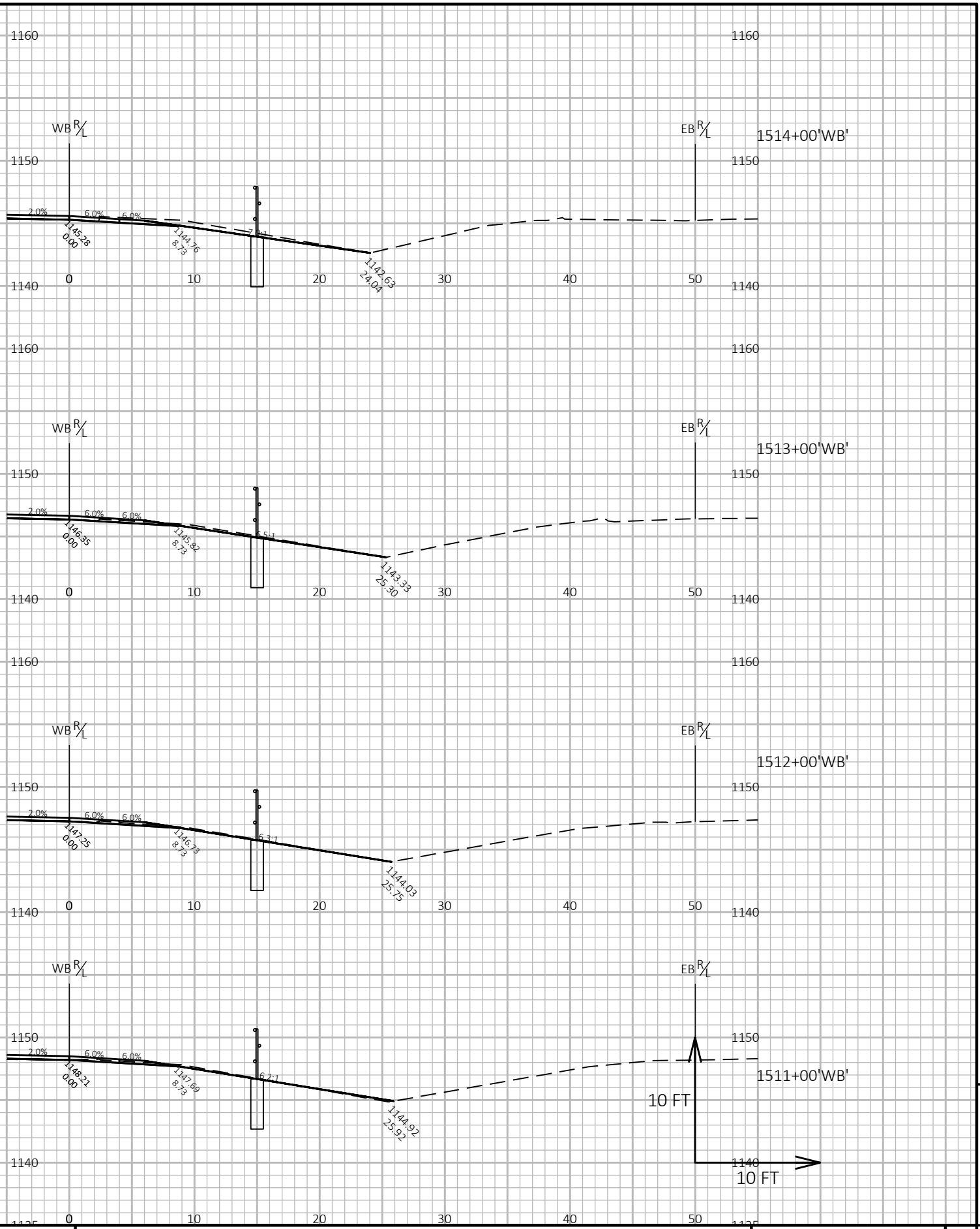
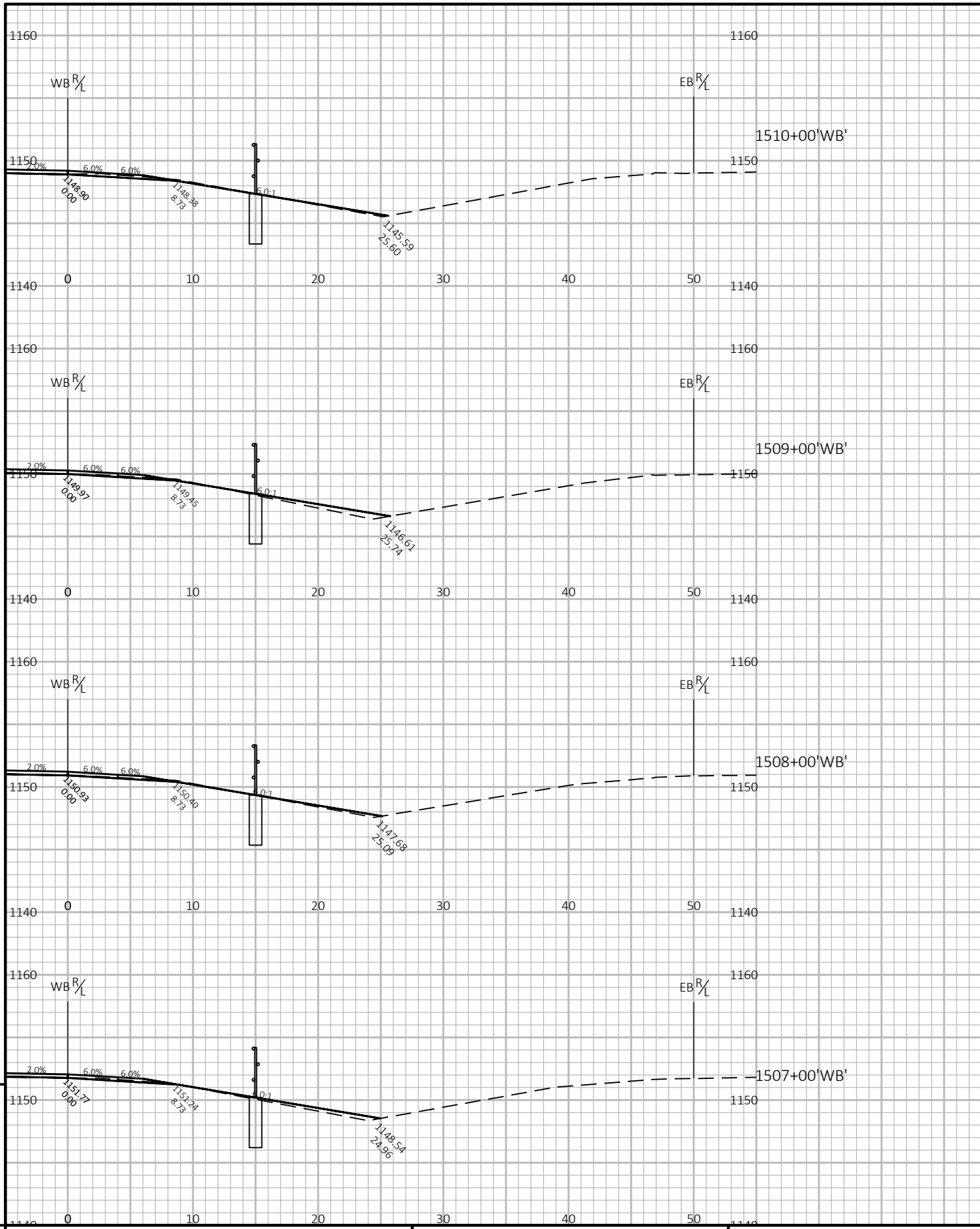
CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY

SHEET

E



PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY SHEET E



PROJECT NO: 1204-05-76

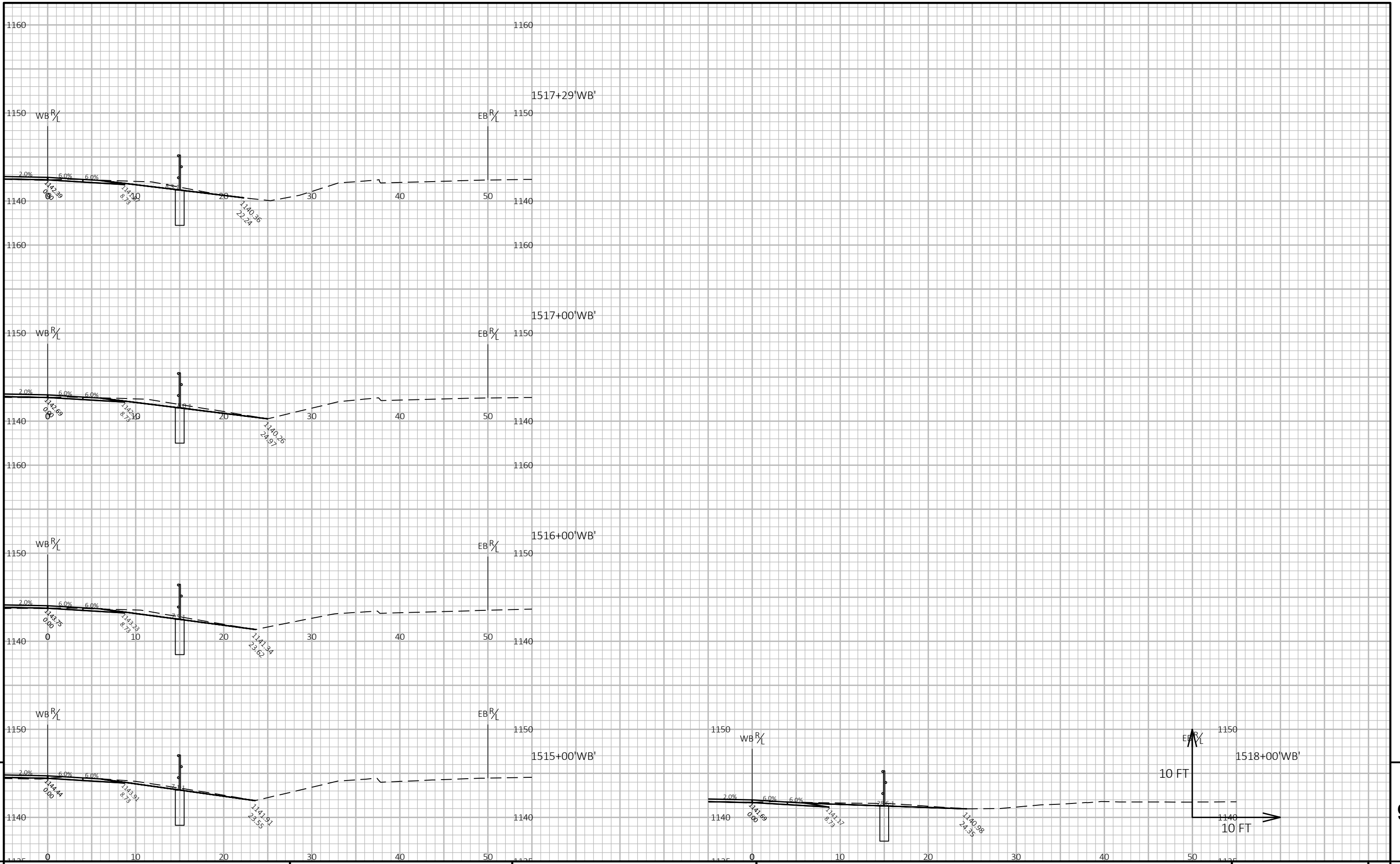
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COUNTY: IOWA & DANE

CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY

SHEET

E

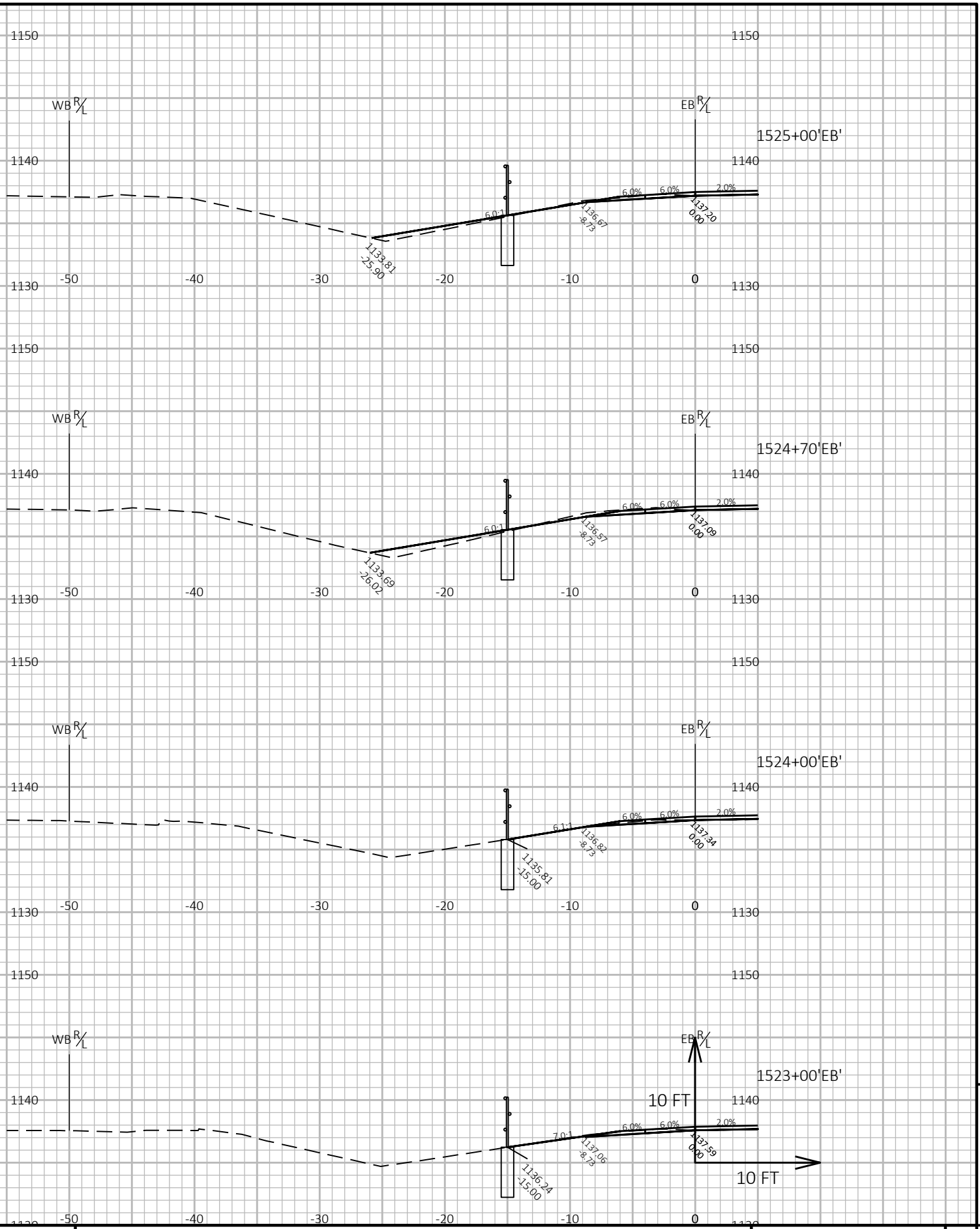
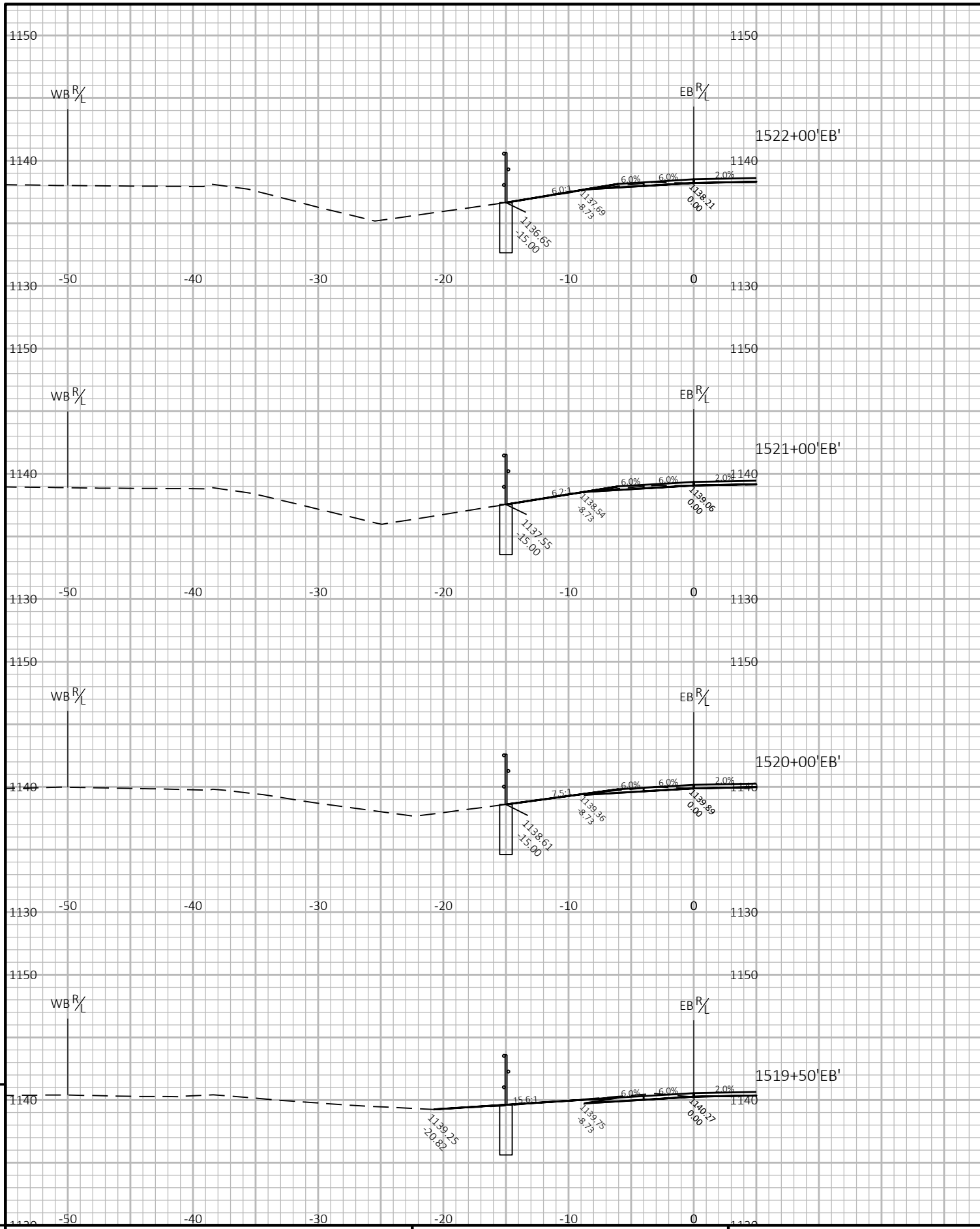


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PROJECT NO: 1204-05-76	HWY: USH 18	COUNTY: IOWA & DANE	CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY	SHEET E
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FILE NAME : P:\2018 PROJECTS\5018041 - WISDOT SWR US 18_151\CIVIL3D\SHEETSPLAN\1204-05-76\090201-XS (IOWA COUNTY).DWG
 LAYOUT NAME - 36
 PLOT DATE : 1/17/2020 11:08 AM
 PLOT BY : BRETT PETERSON
 PLOT NAME :
 PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.
 WISDOT/CADD SHEET 49



PROJECT NO: 1204-05-76

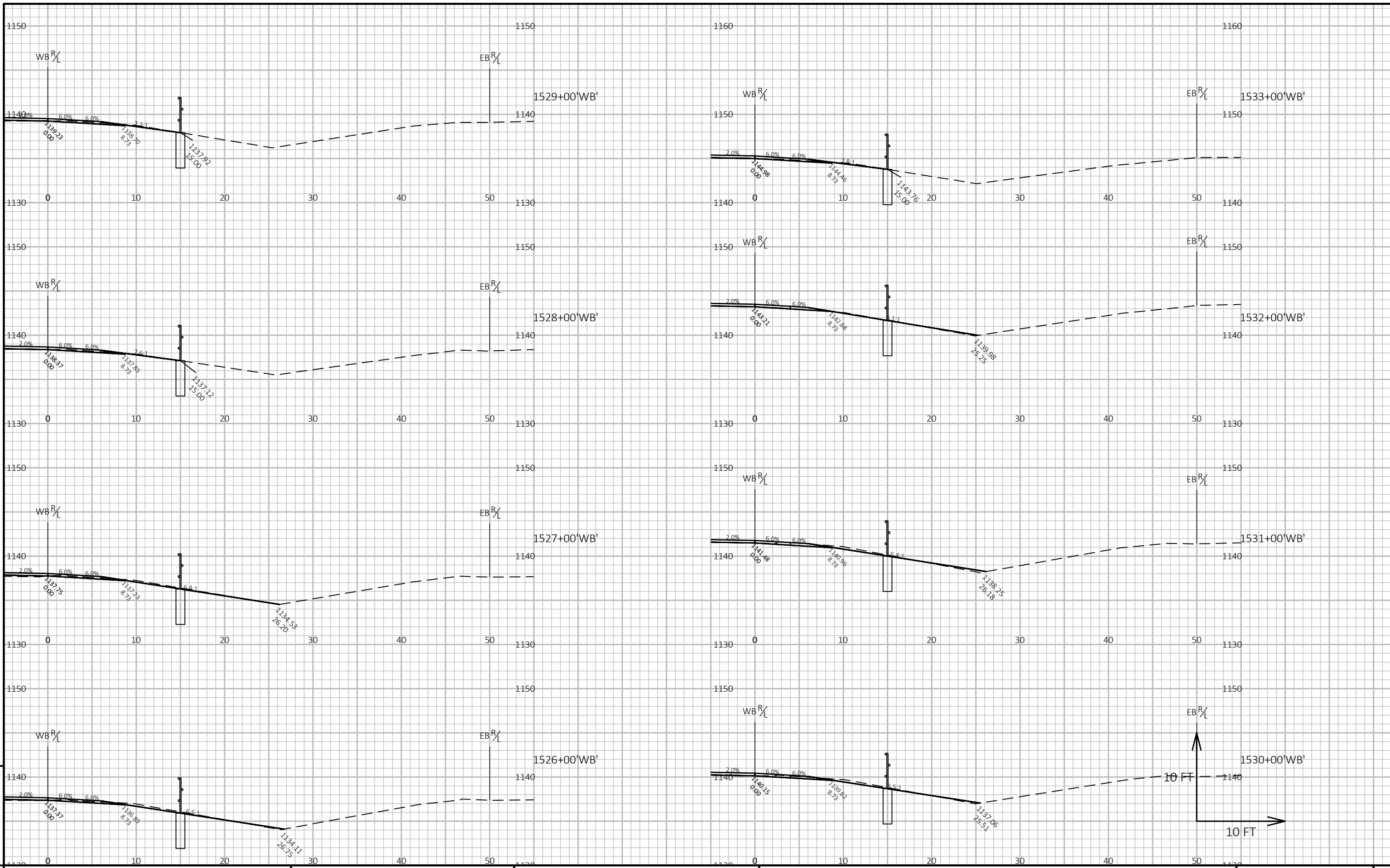
HWY: USH 18

COUNTY: IOWA & DANE

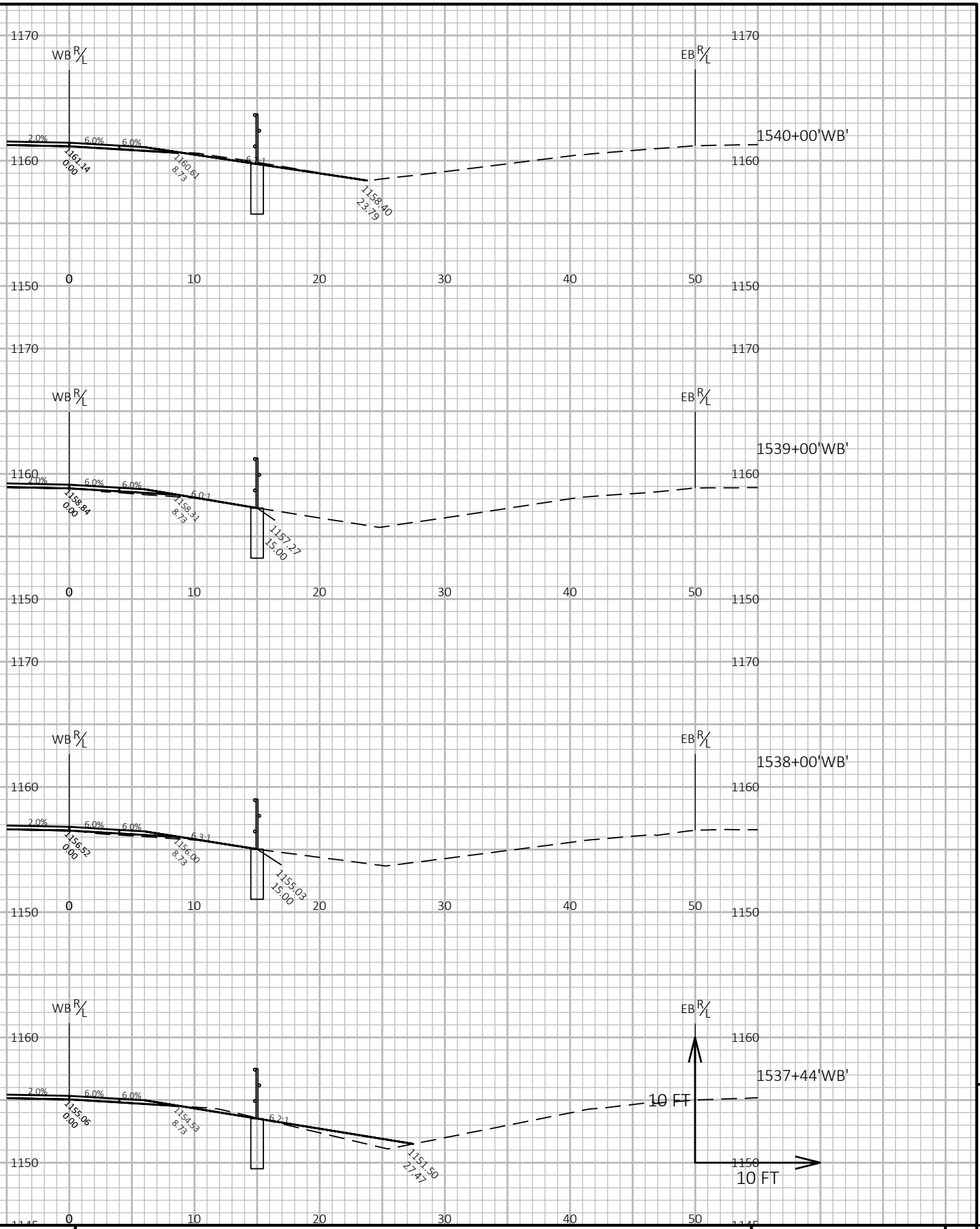
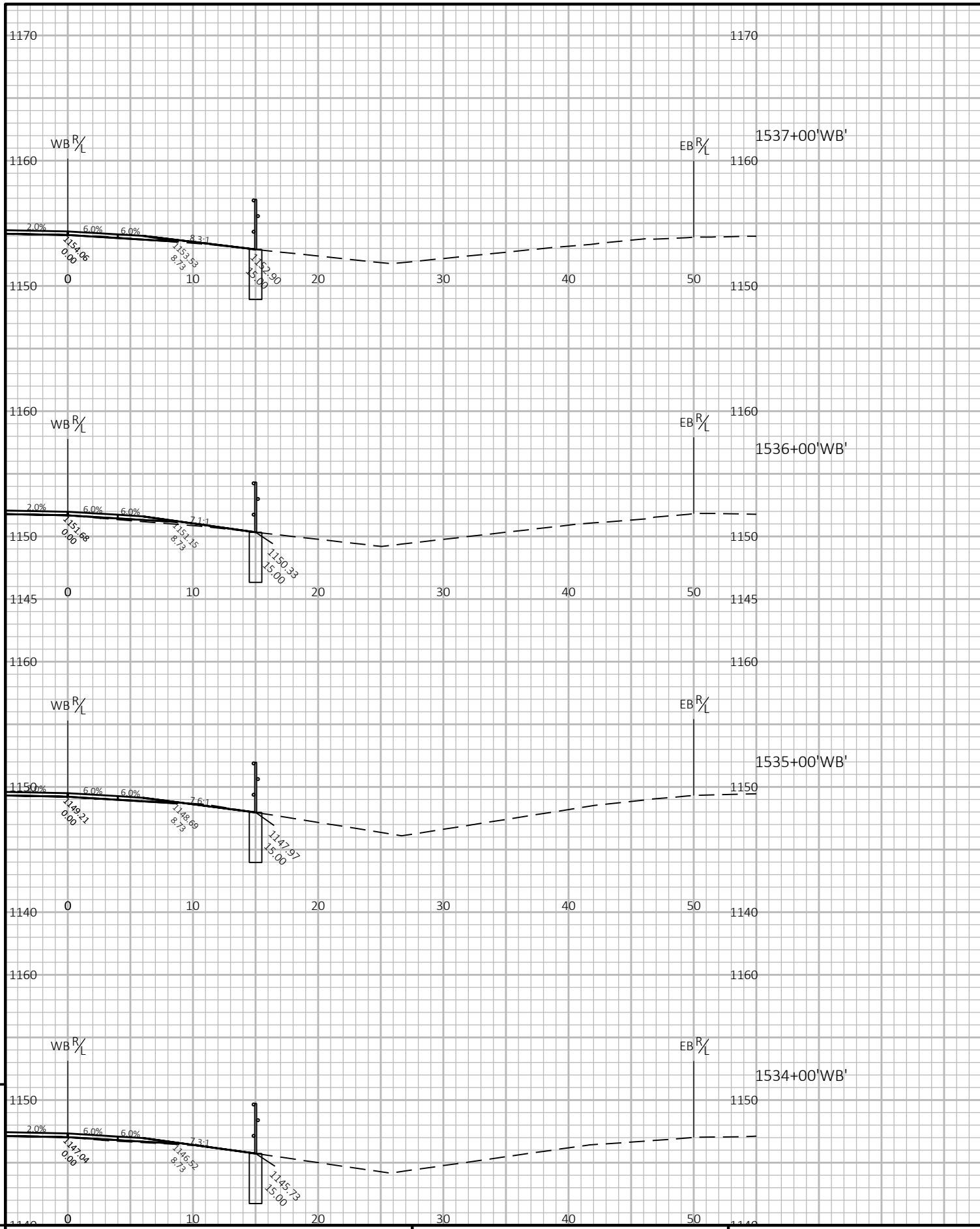
CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY

SHEET

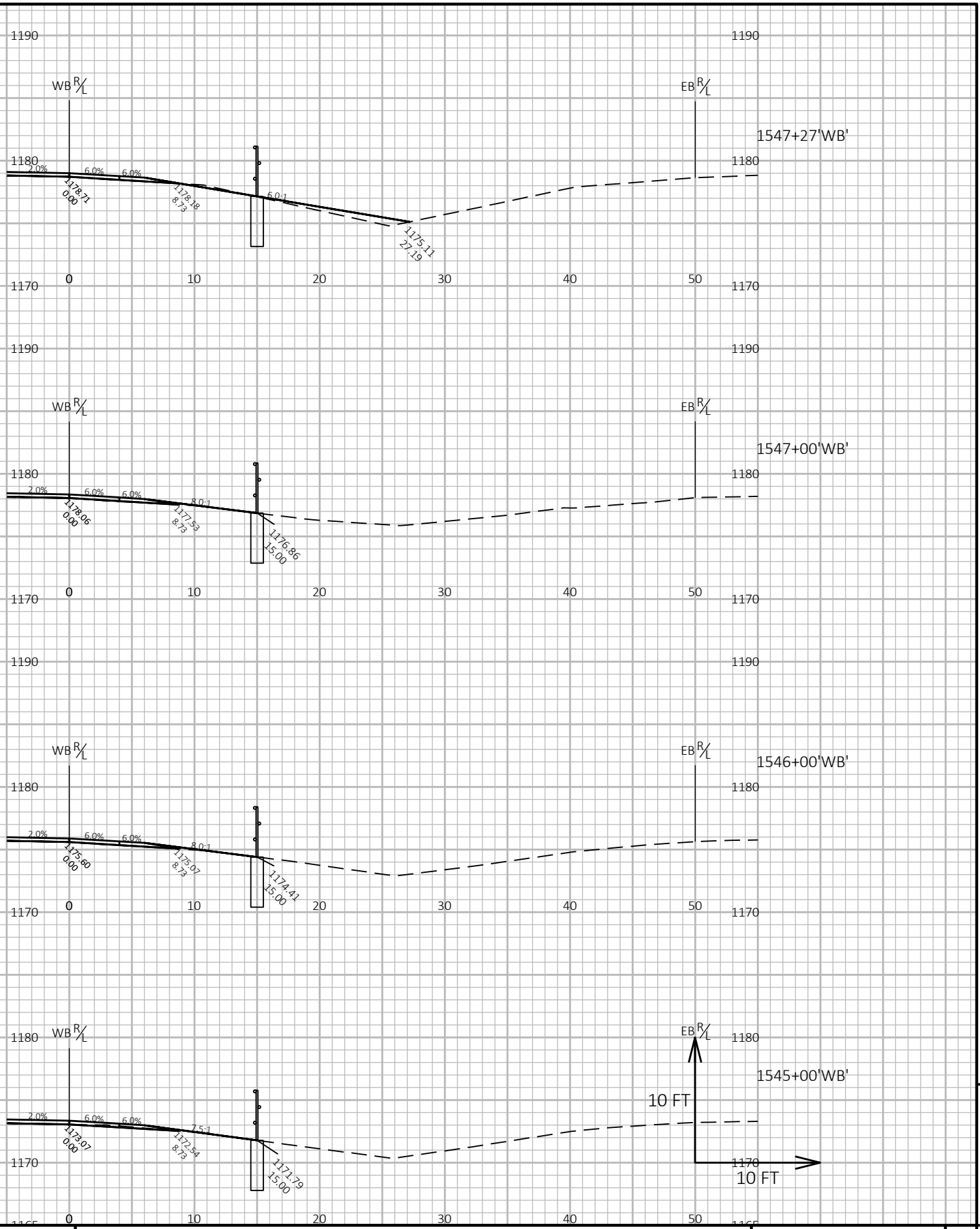
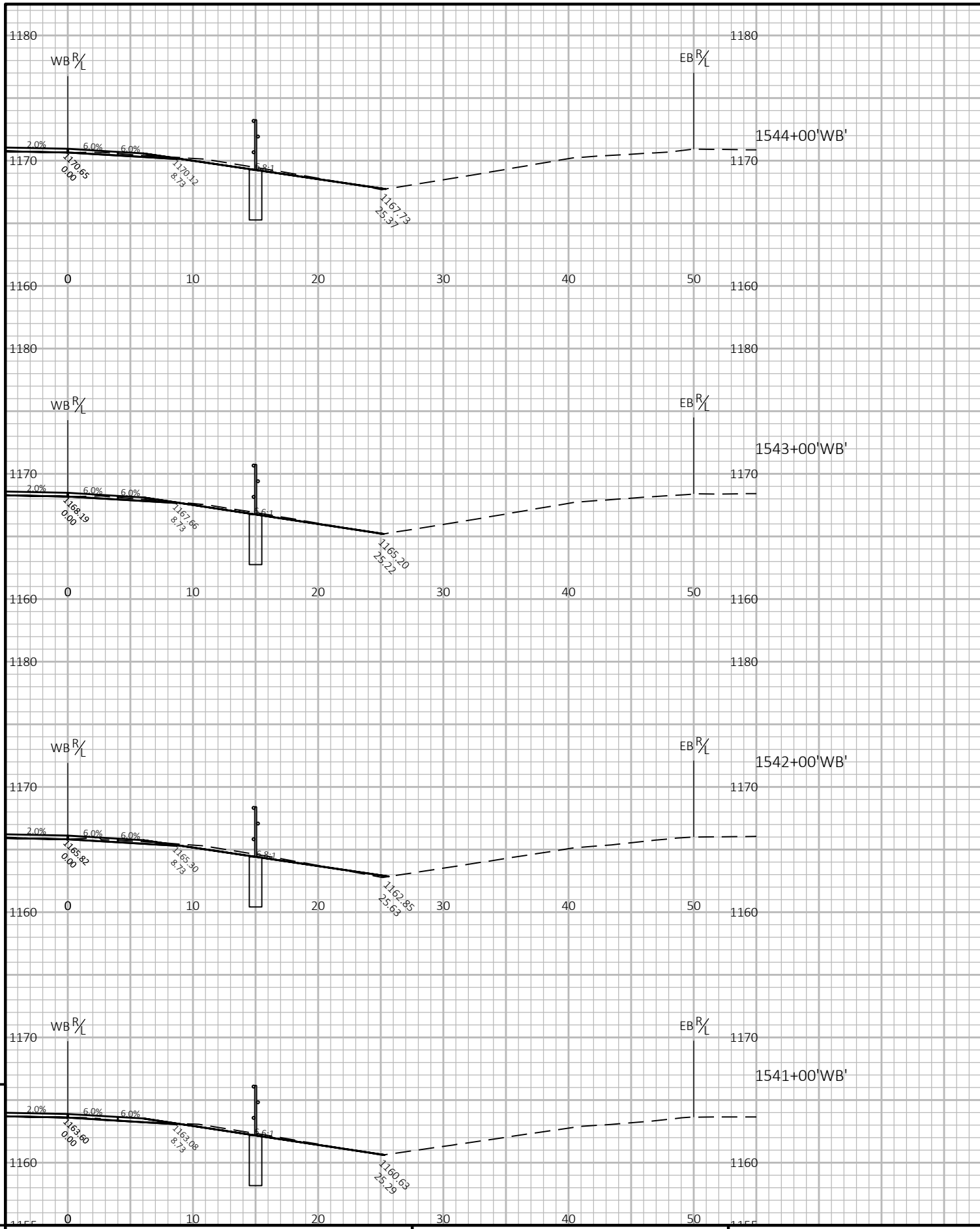
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PROJECT NO: 1204-05-76
HWY: USH 18
COUNTY: IOWA & DANE
CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY
SHEET
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PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY SHEET E



PROJECT NO: 1204-05-76

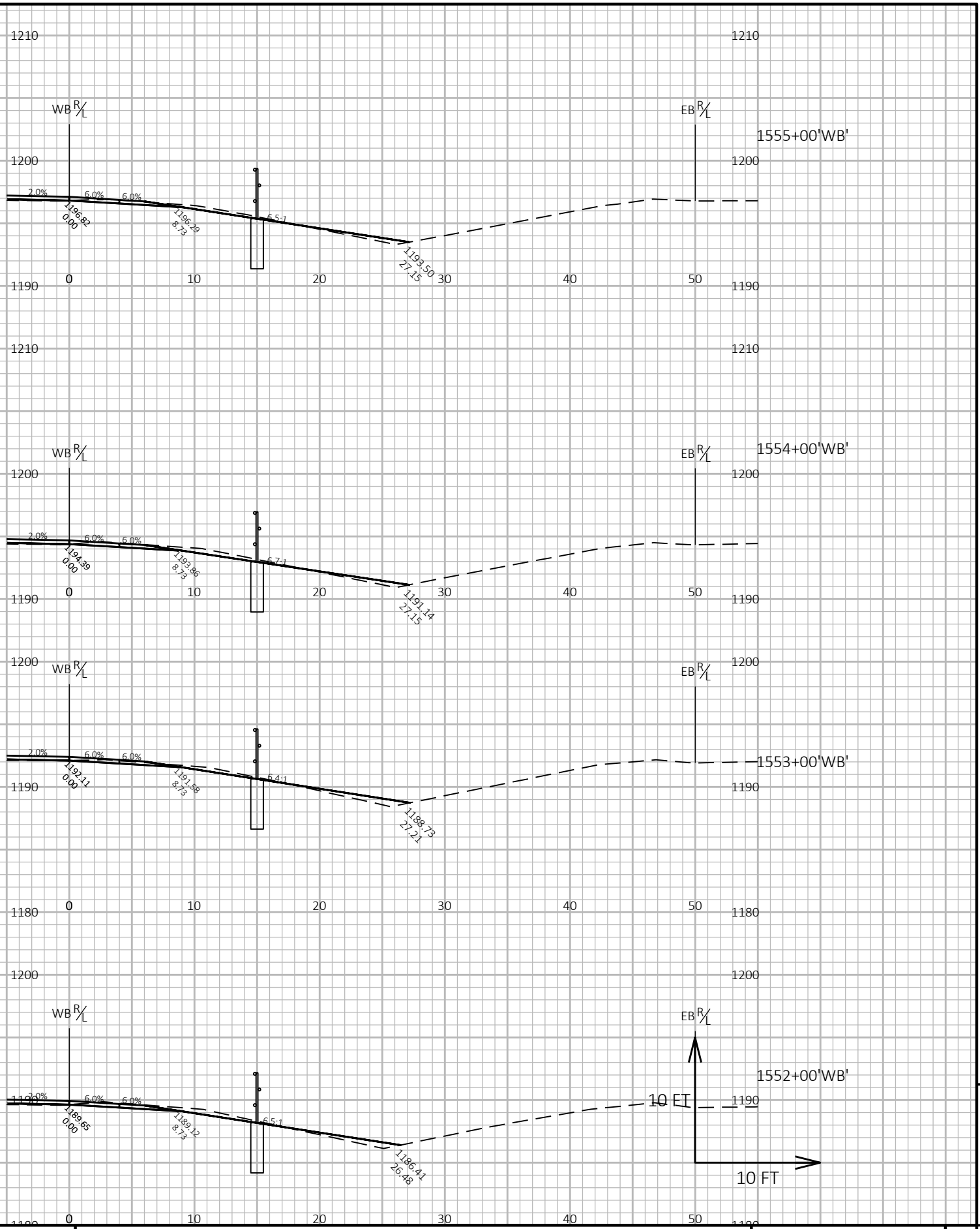
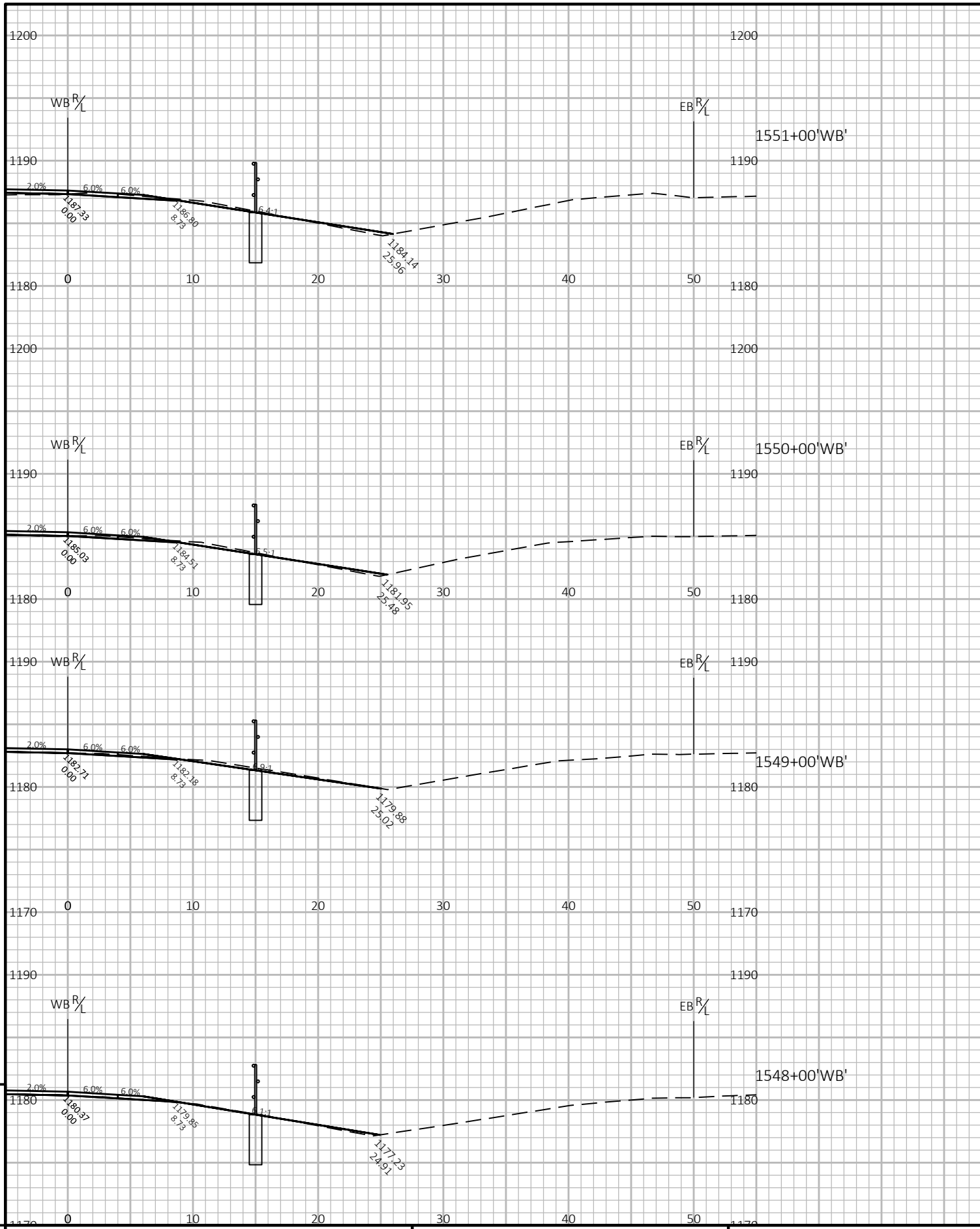
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COUNTY: IOWA & DANE

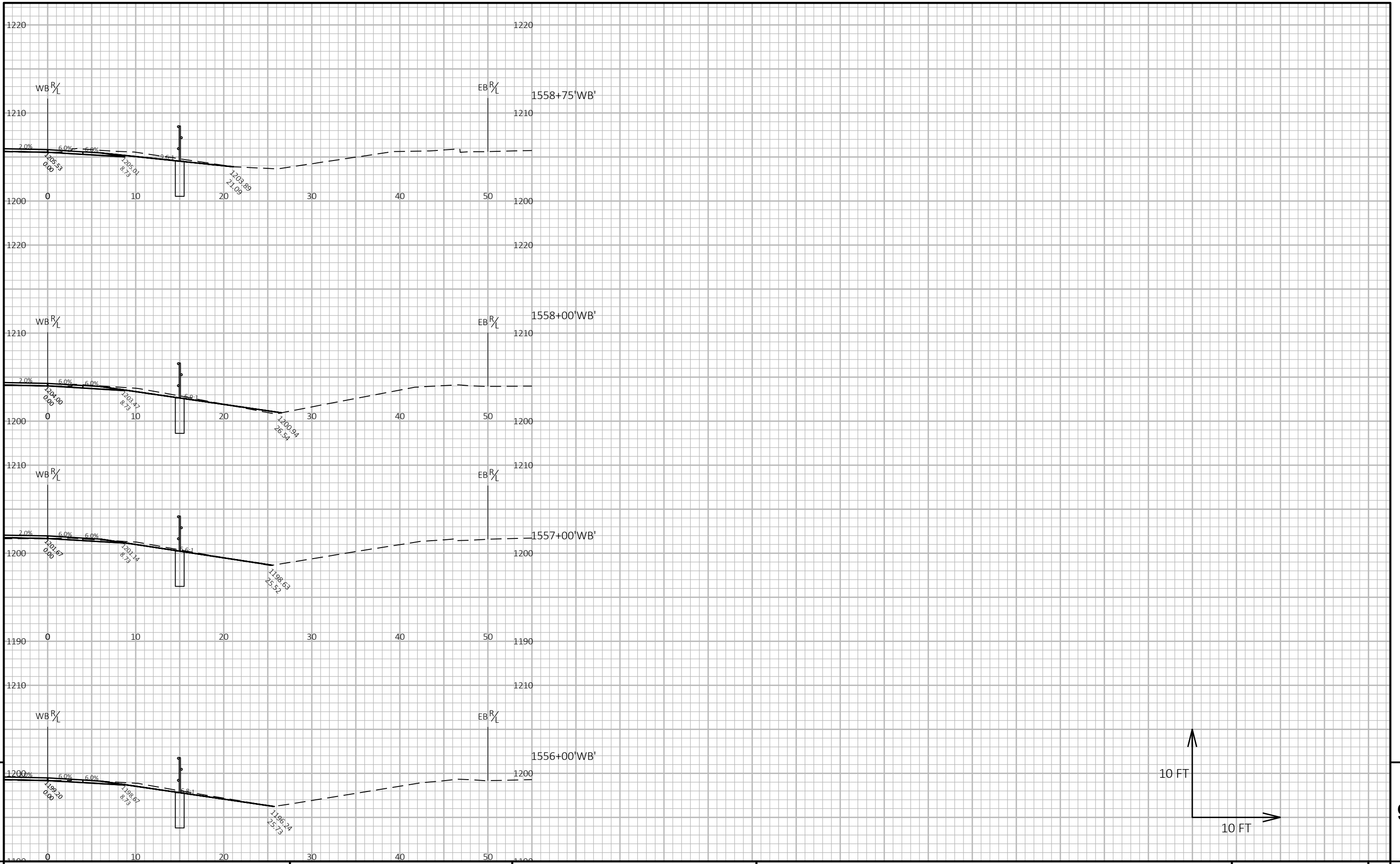
CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY

SHEET

E



PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY SHEET E



PROJECT NO: 1204-05-76

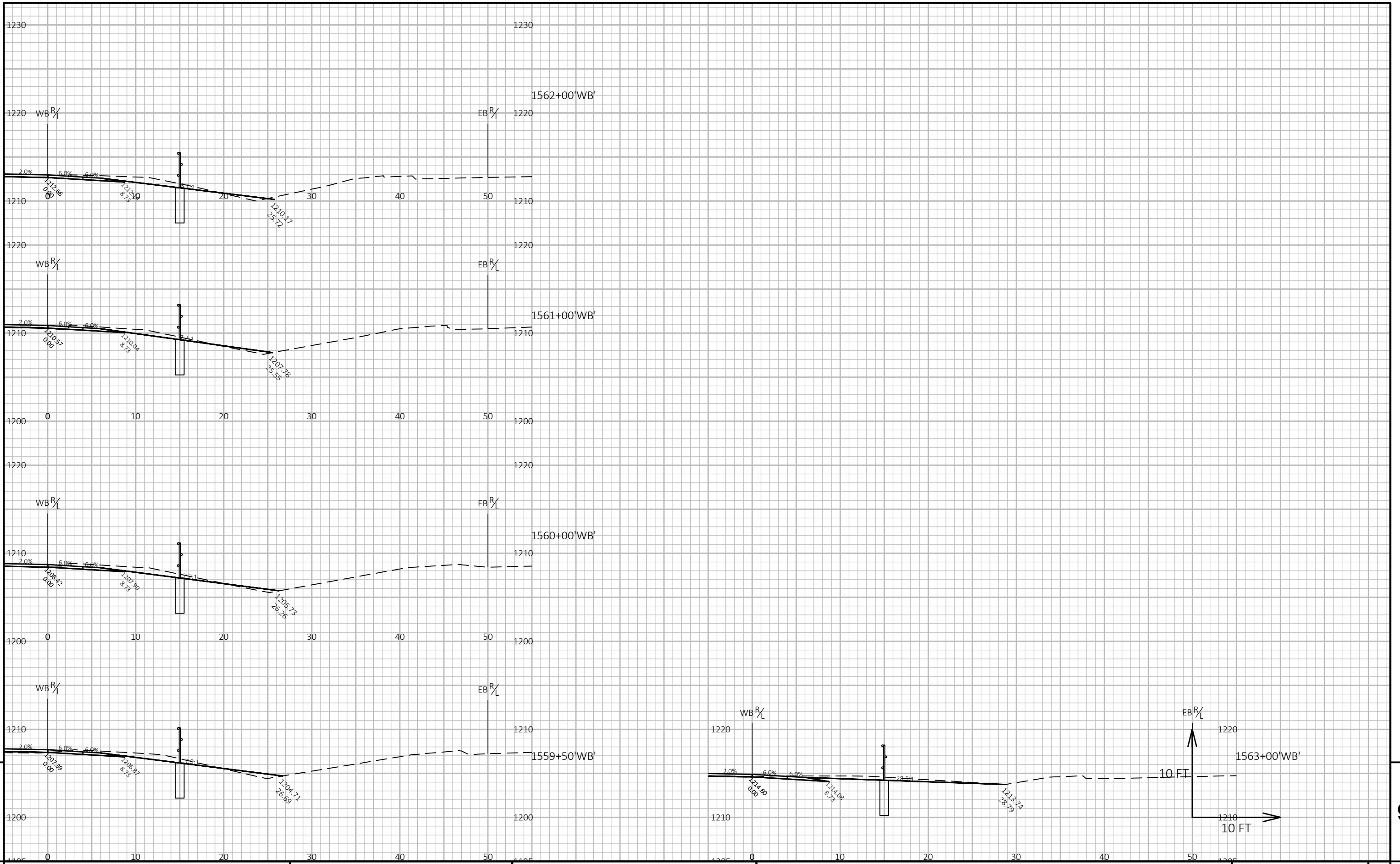
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COUNTY: IOWA & DANE

CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY

SHEET

E



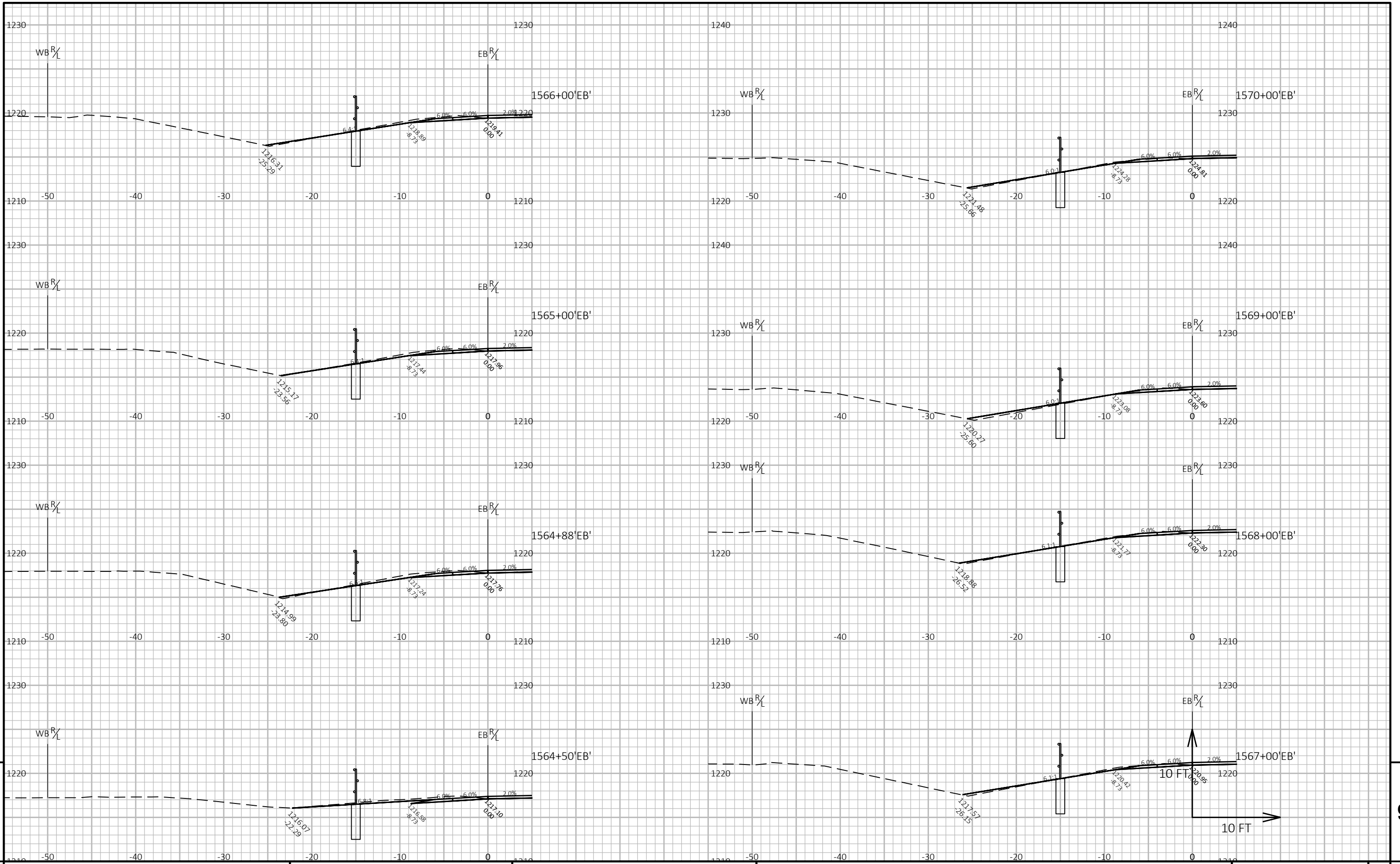
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PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY SHEET E

FILE NAME: P:\2018 PROJECTS\5018041 - WISDOT SWR US 18_151\CIVIL3D\SHEETSP\1204-05-76\090201-XS (IOWA COUNTY).DWG PLOT DATE: 1/17/2020 11:14 AM PLOT BY: BRETT PETERSON PLOT NAME: PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 43



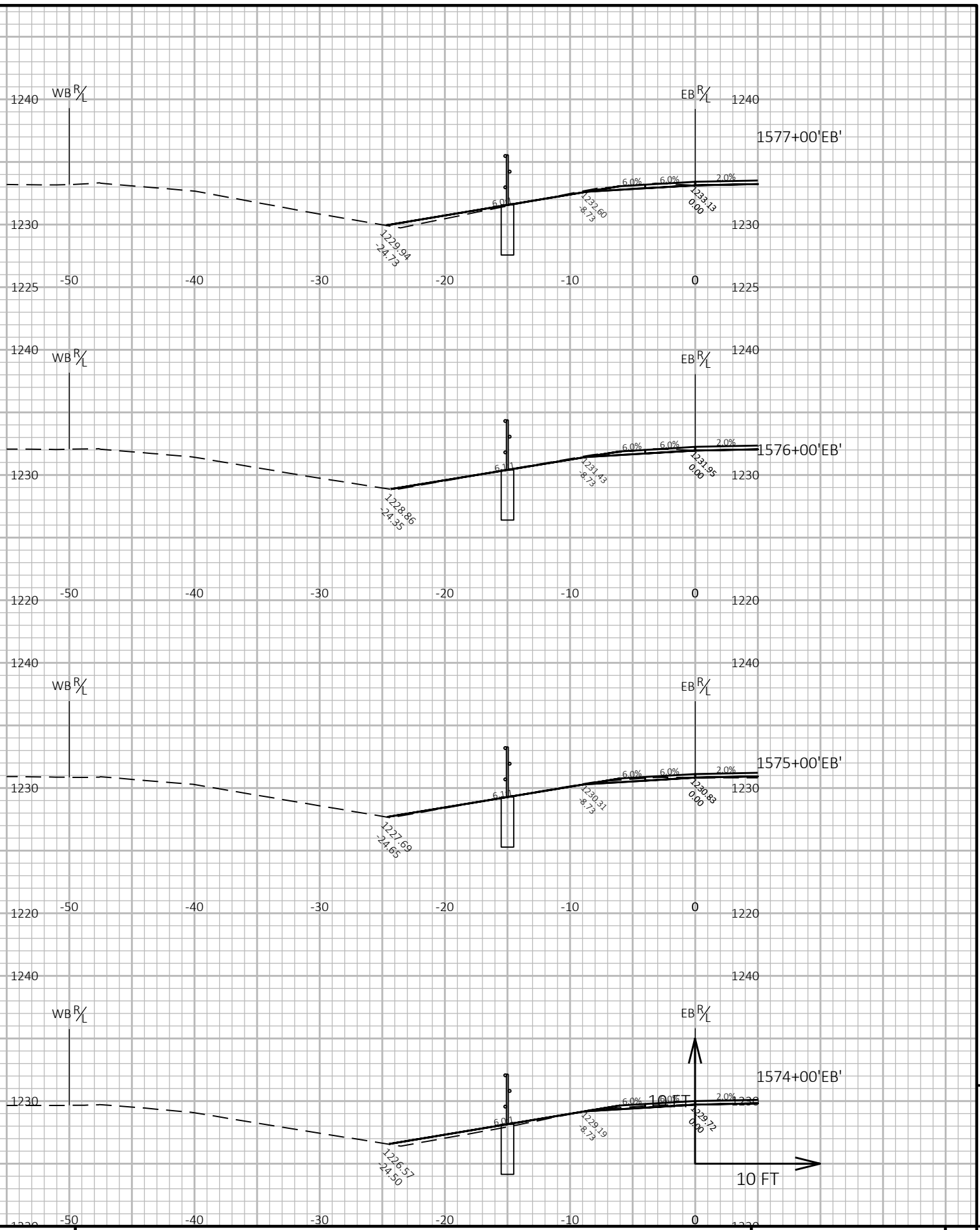
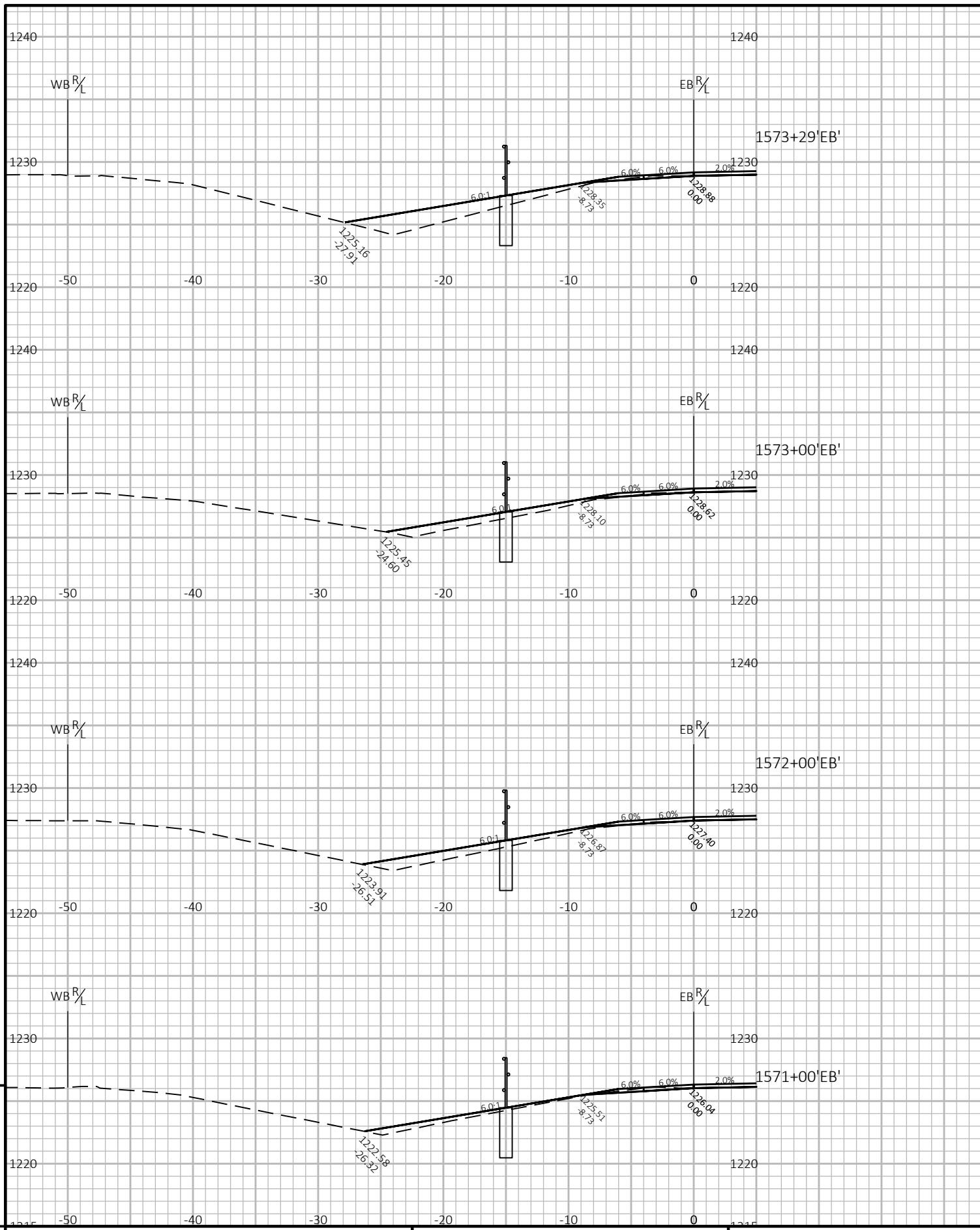
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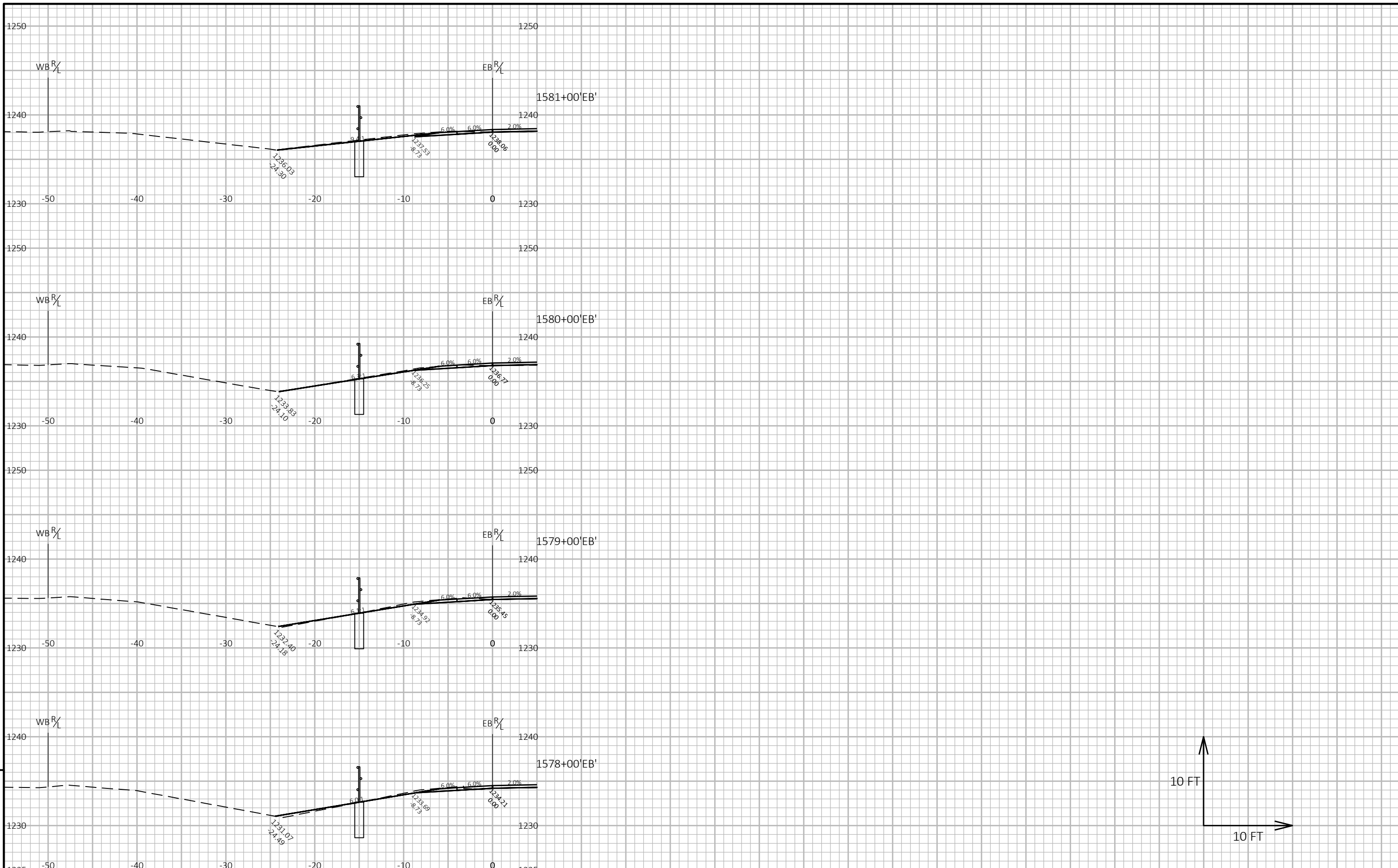
PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY SHEET E

FILE NAME : P:\2018 PROJECTS\5018041 - WISDOT SWR US 18_151\CIVIL3D\SHEETSPLAN\1204-05-76\090201-XS (IOWA COUNTY).DWG PLOT DATE : 1/17/2020 11:15 AM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 44



PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY SHEET E



PROJECT NO: 1204-05-76

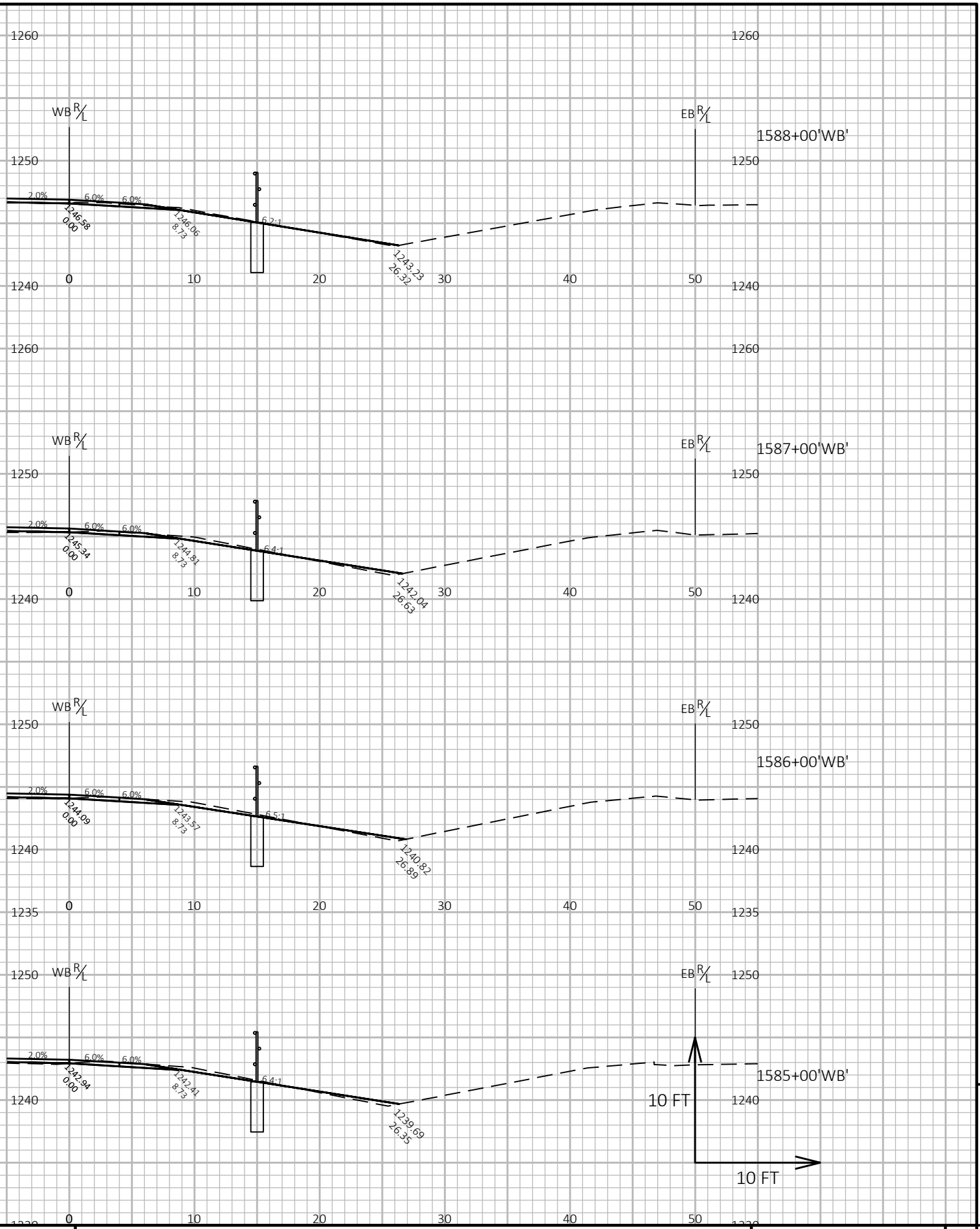
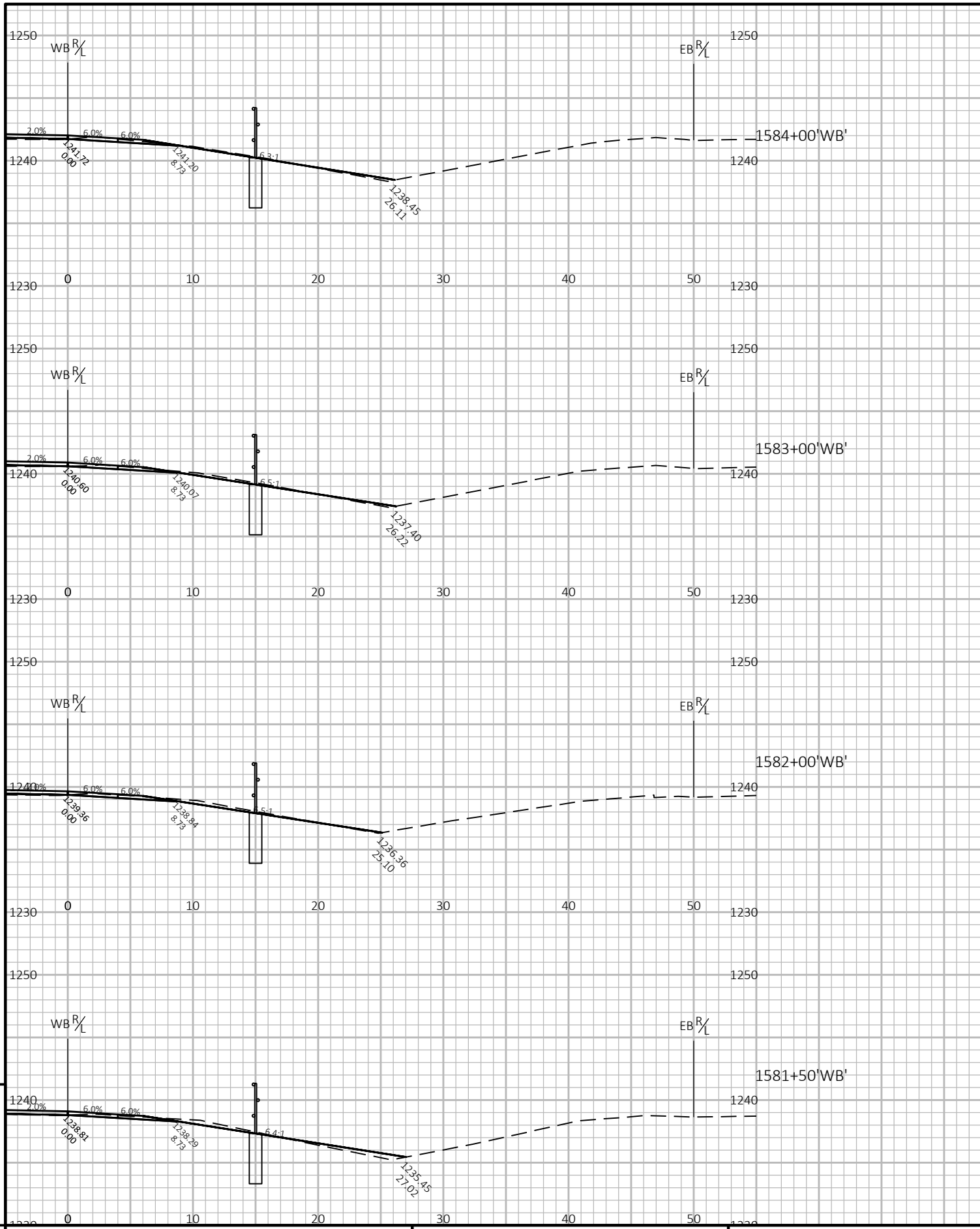
HWY: USH 18

COUNTY: IOWA & DANE

CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY

SHEET

E



PROJECT NO: 1204-05-76

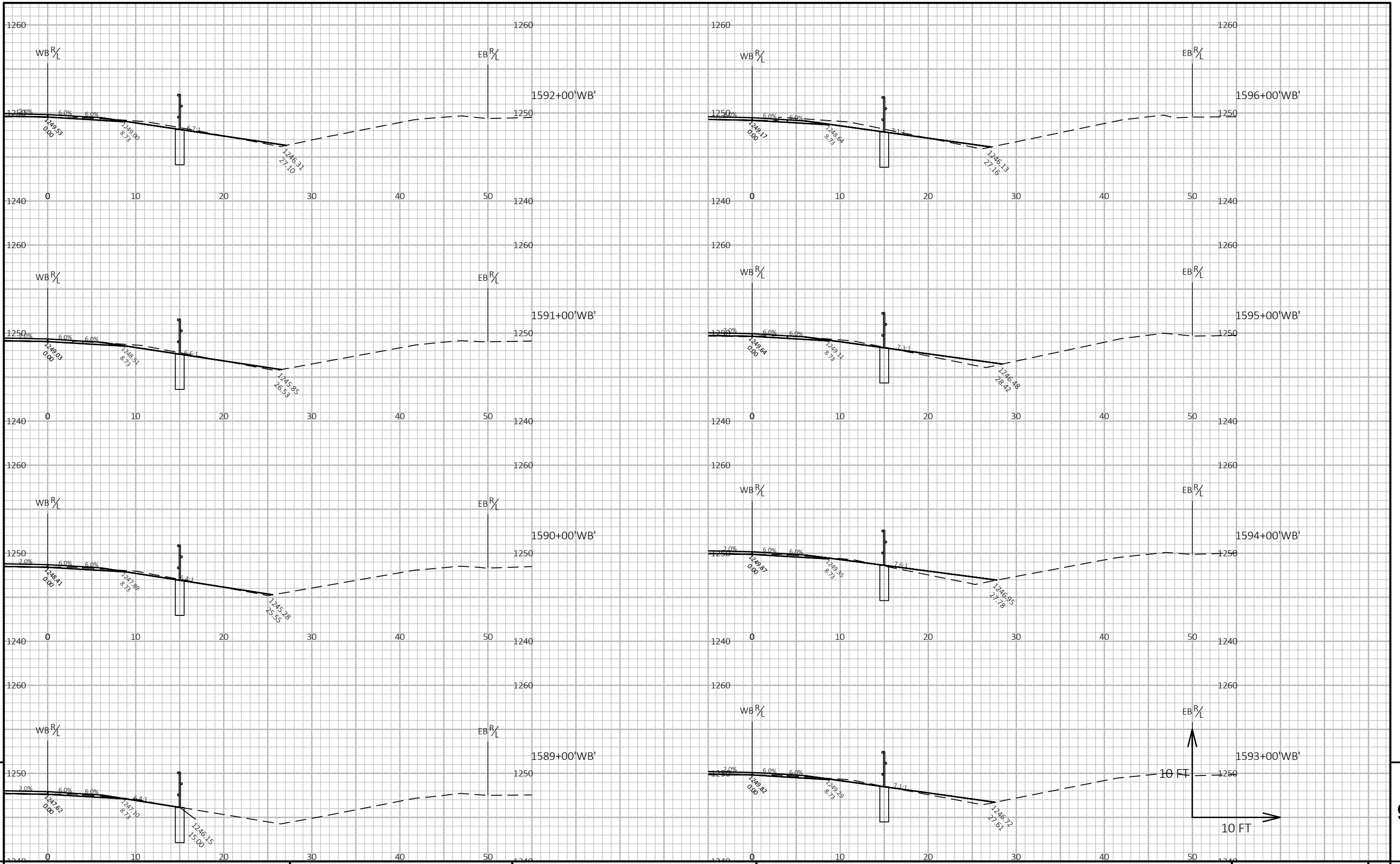
HWY: USH 18

COUNTY: IOWA & DANE

CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY

SHEET

E



PROJECT NO: 1204-05-76

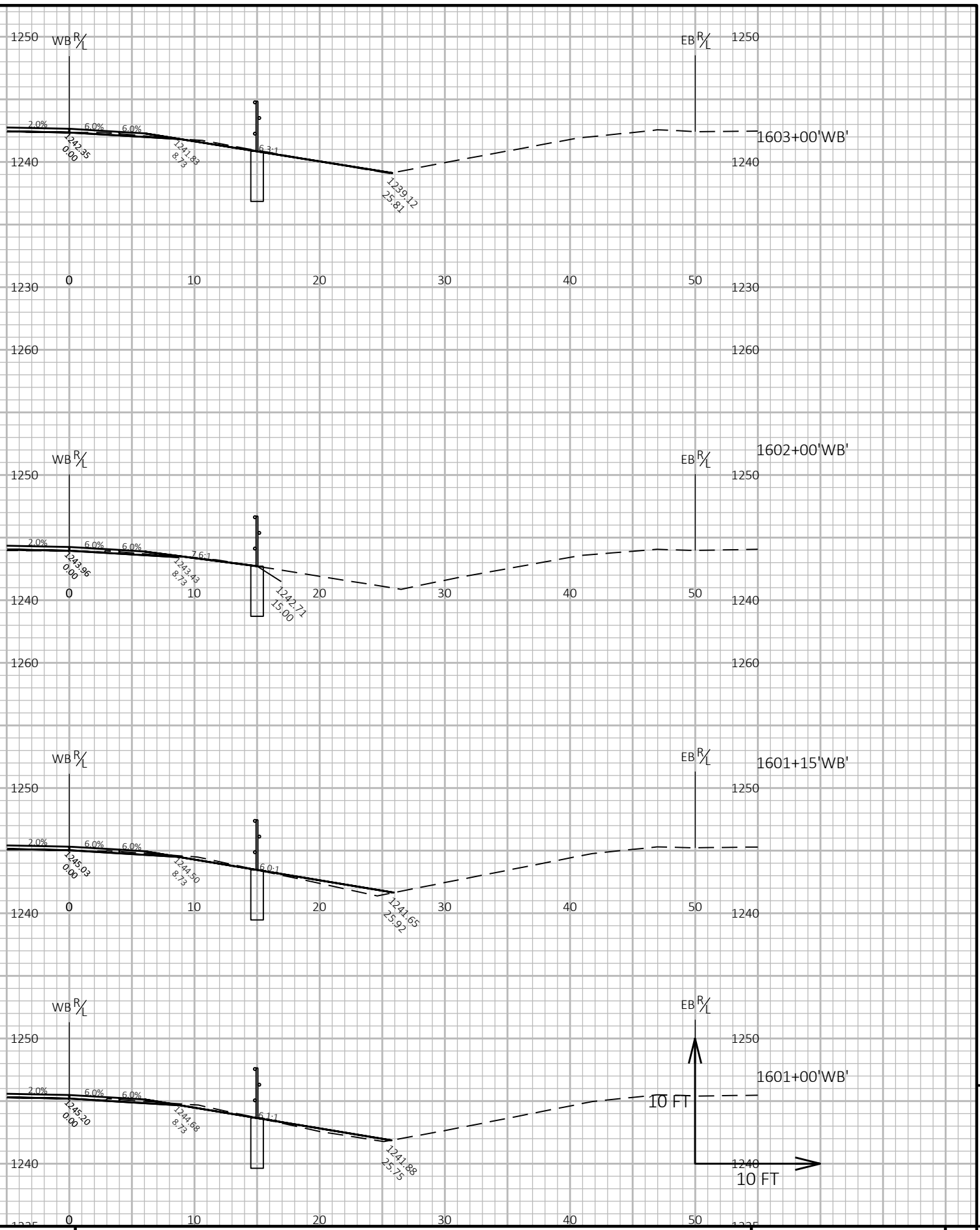
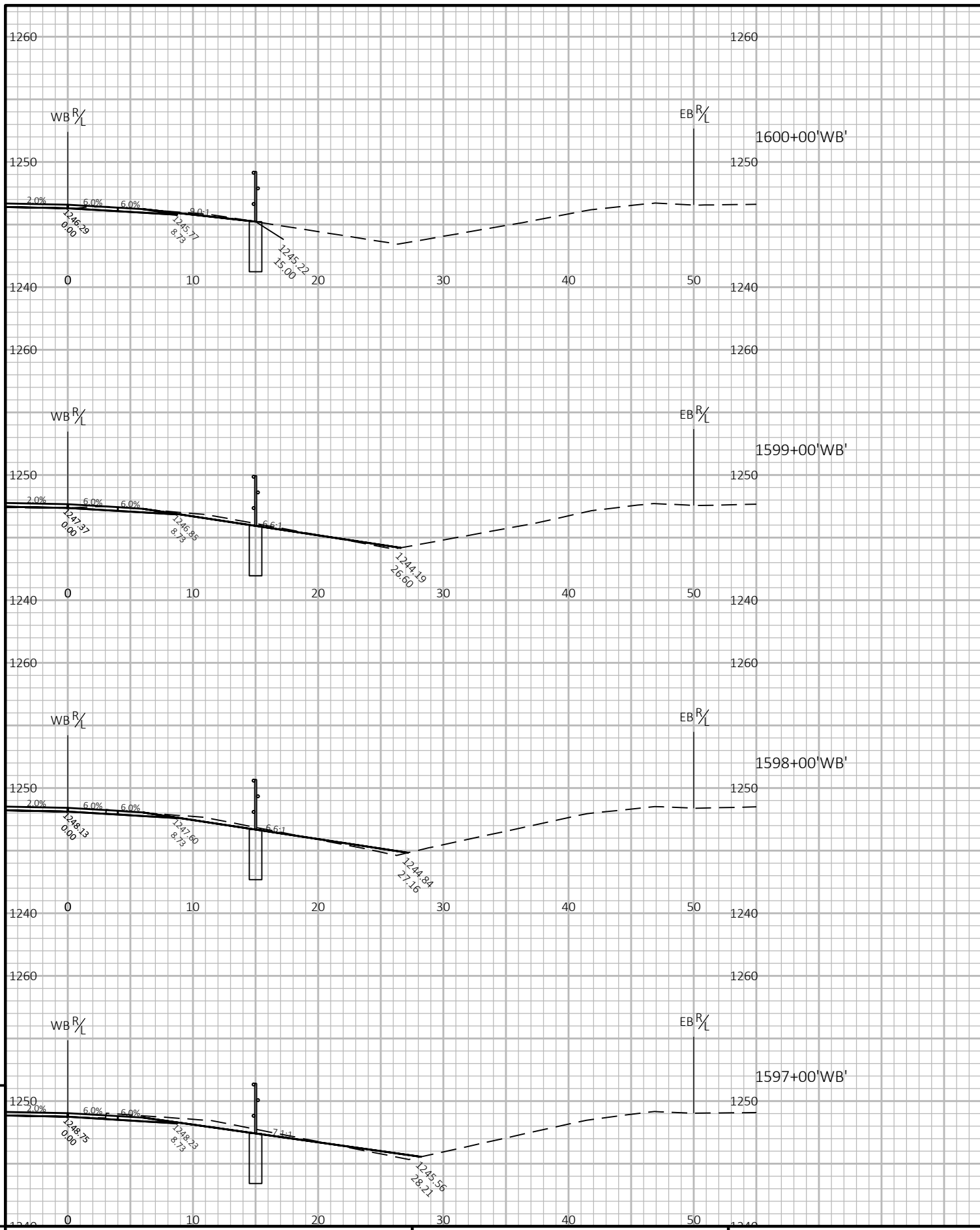
HWY: USH 18

COUNTY: IOWA & DANE

CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY

SHEET

E



PROJECT NO: 1204-05-76

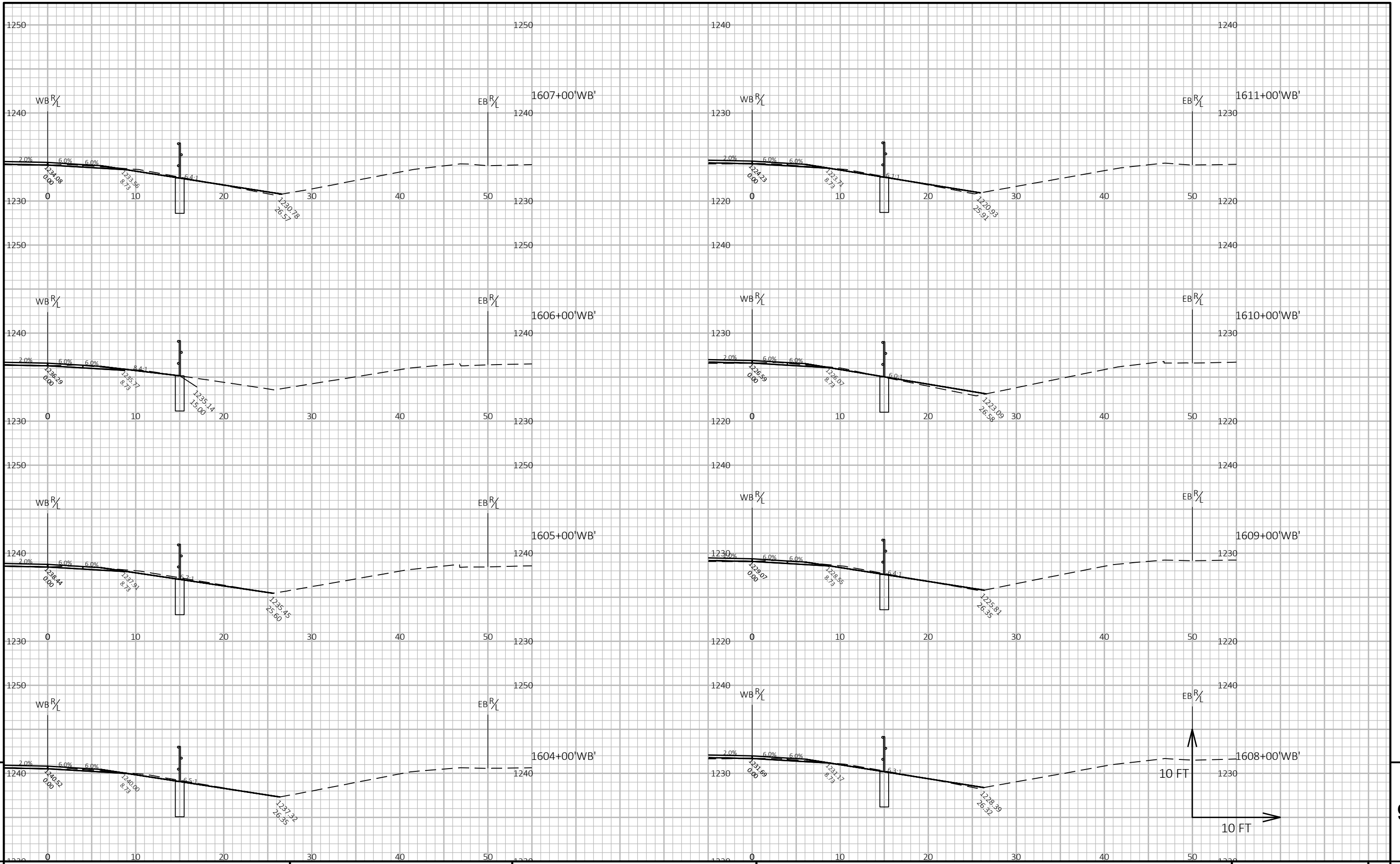
HWY: USH 18

COUNTY: IOWA & DANE

CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY

SHEET

E



PROJECT NO: 1204-05-76

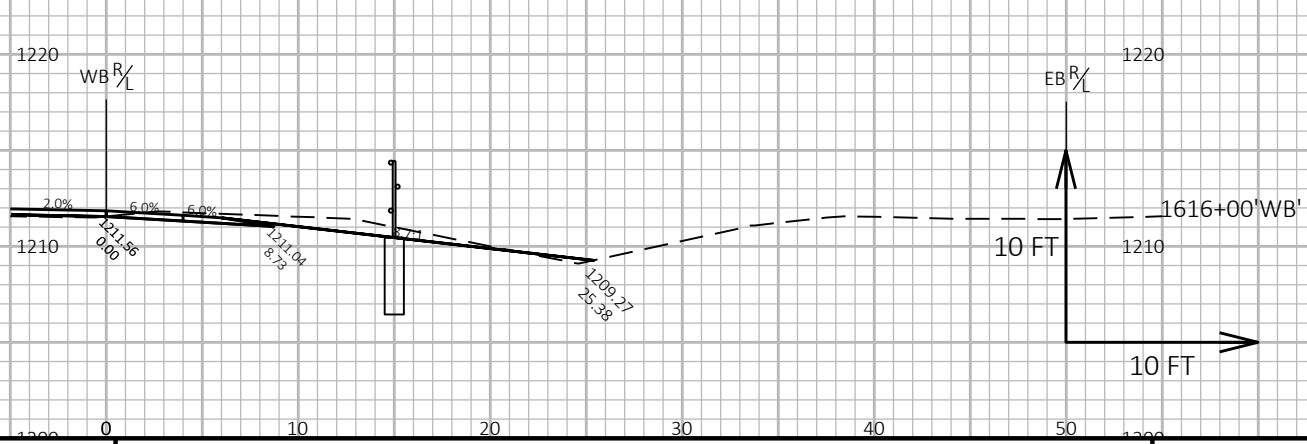
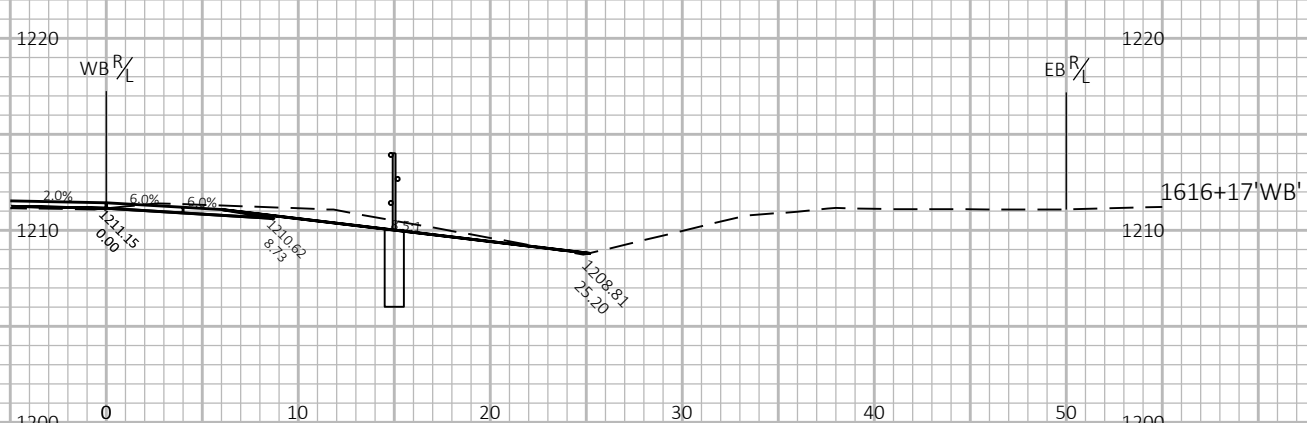
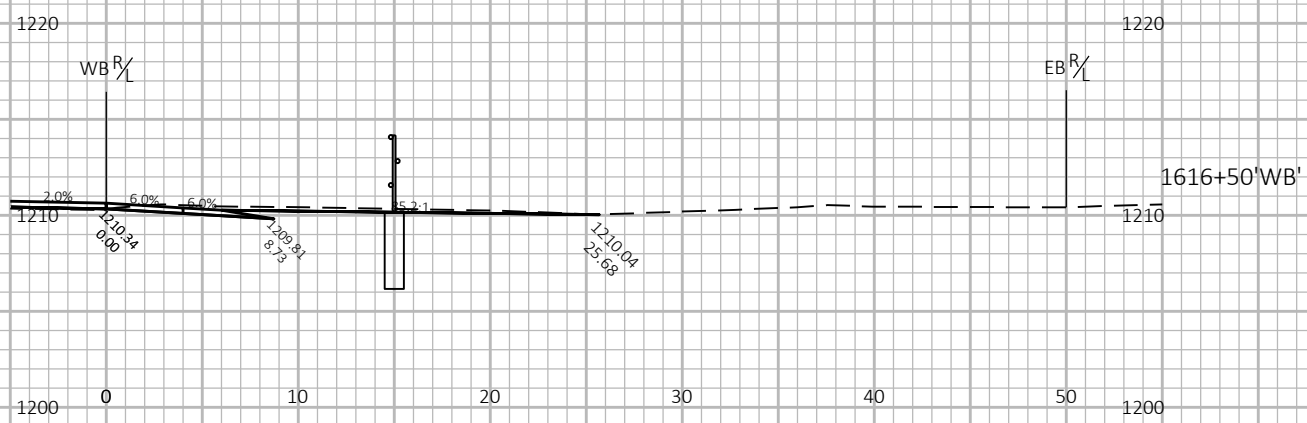
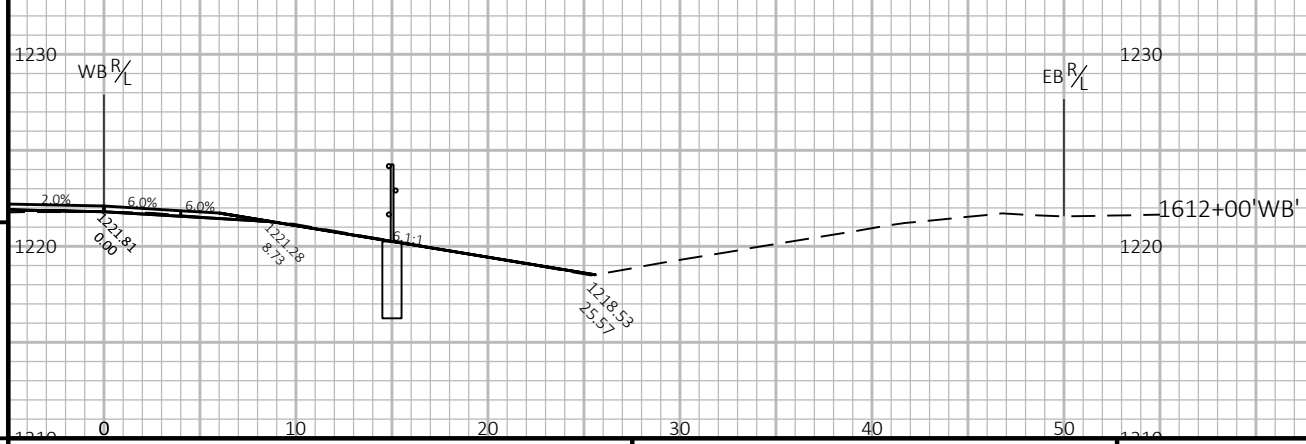
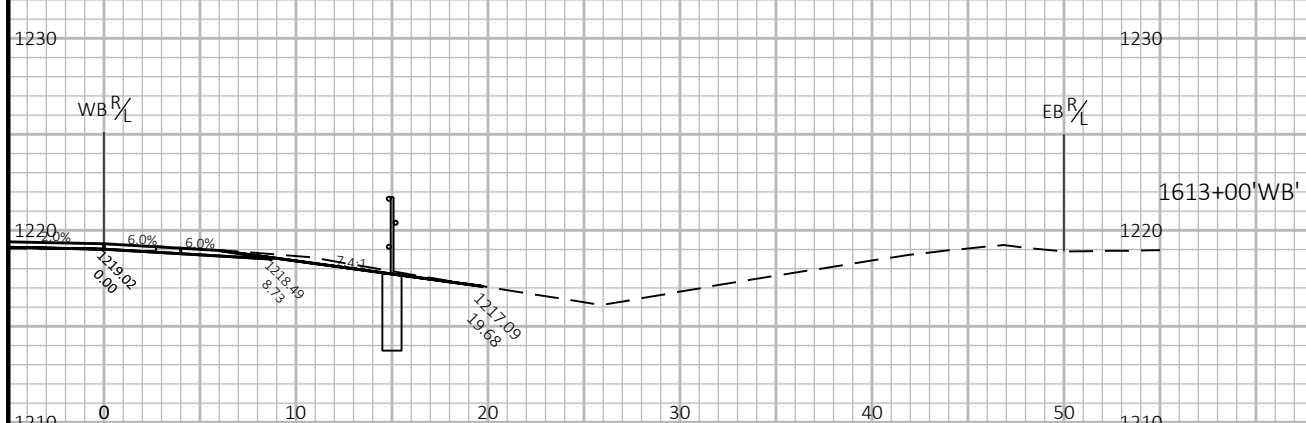
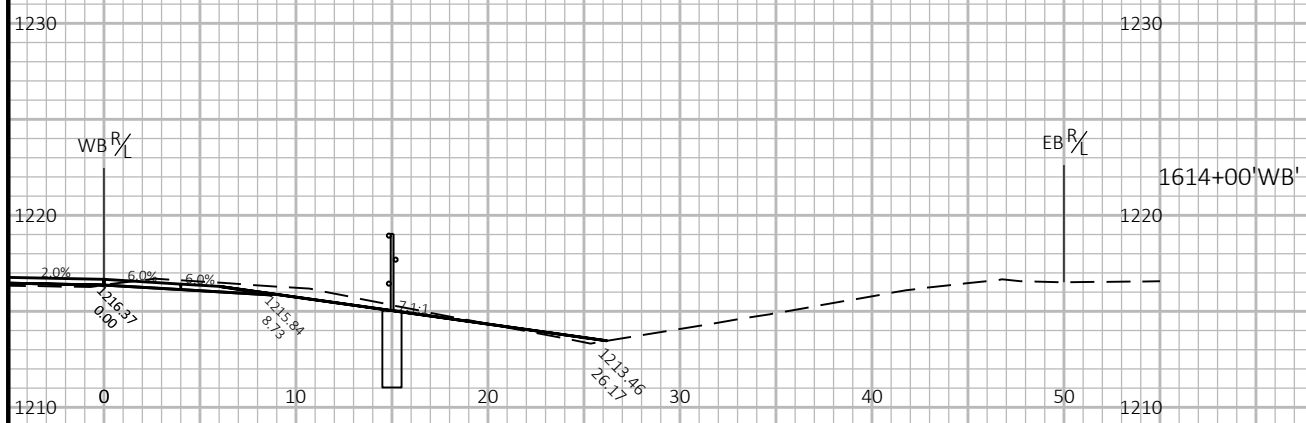
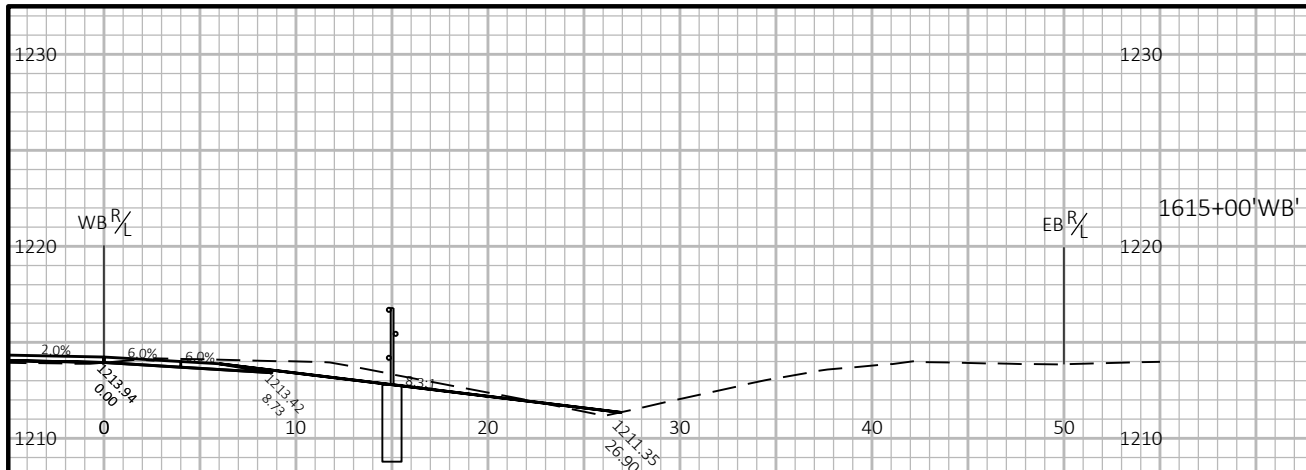
HWY: USH 18

COUNTY: IOWA & DANE

CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY

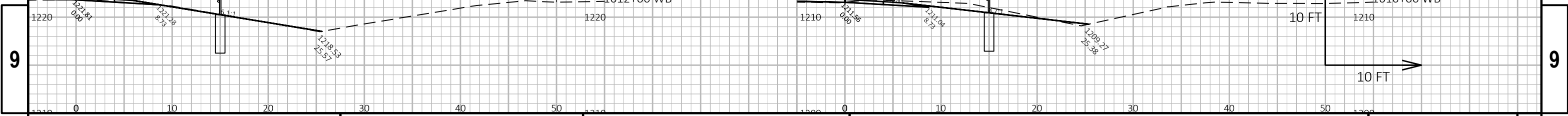
SHEET

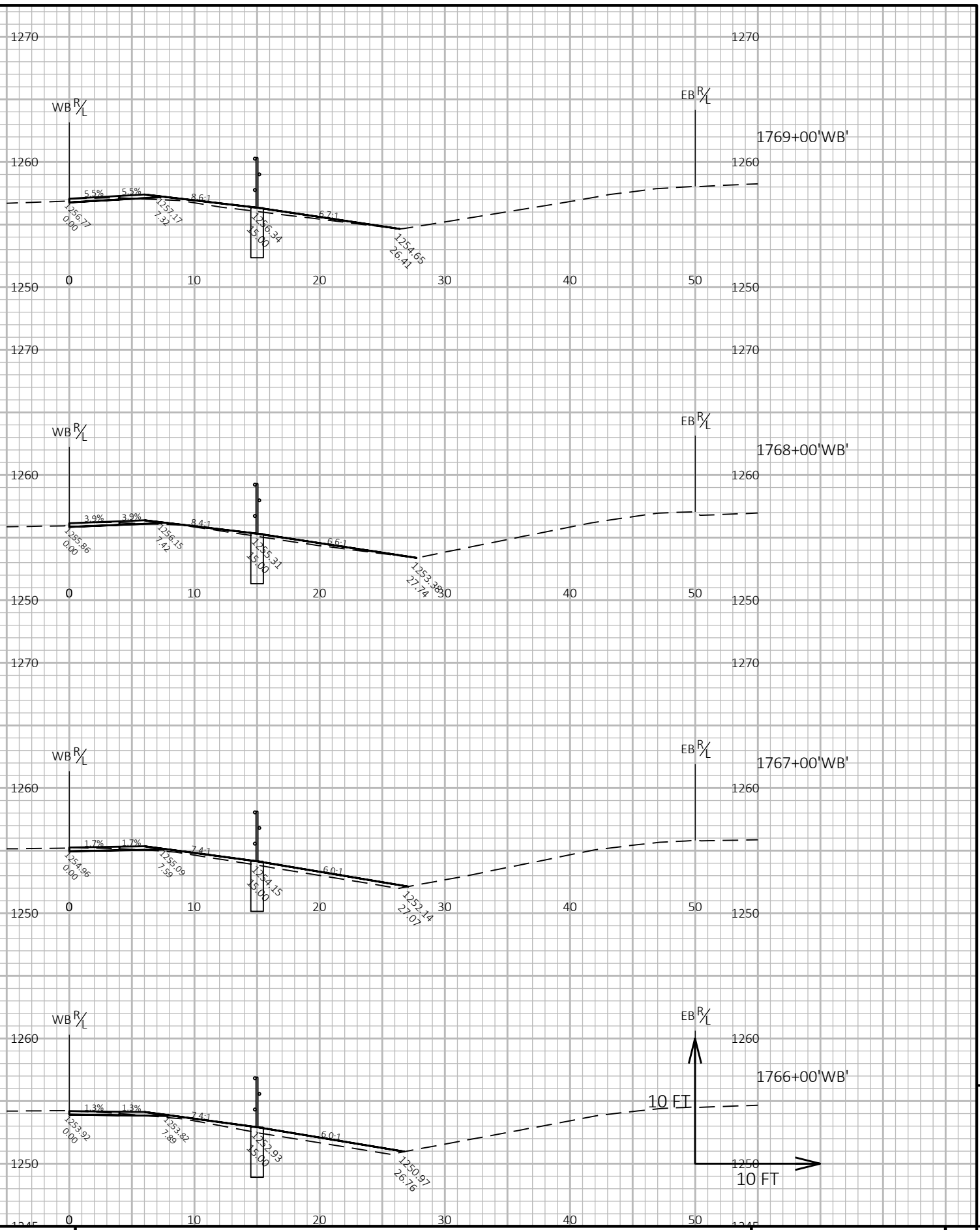
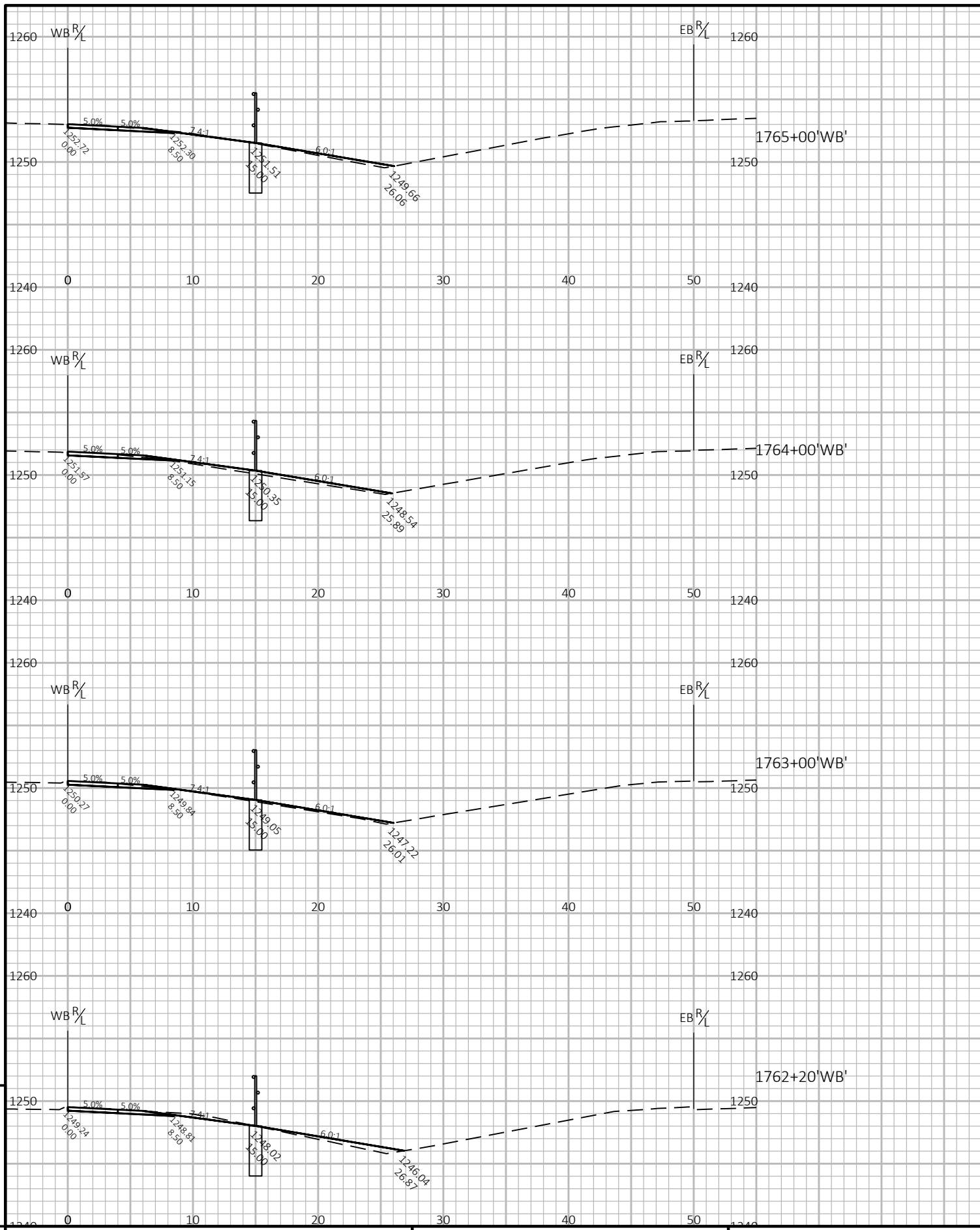
E



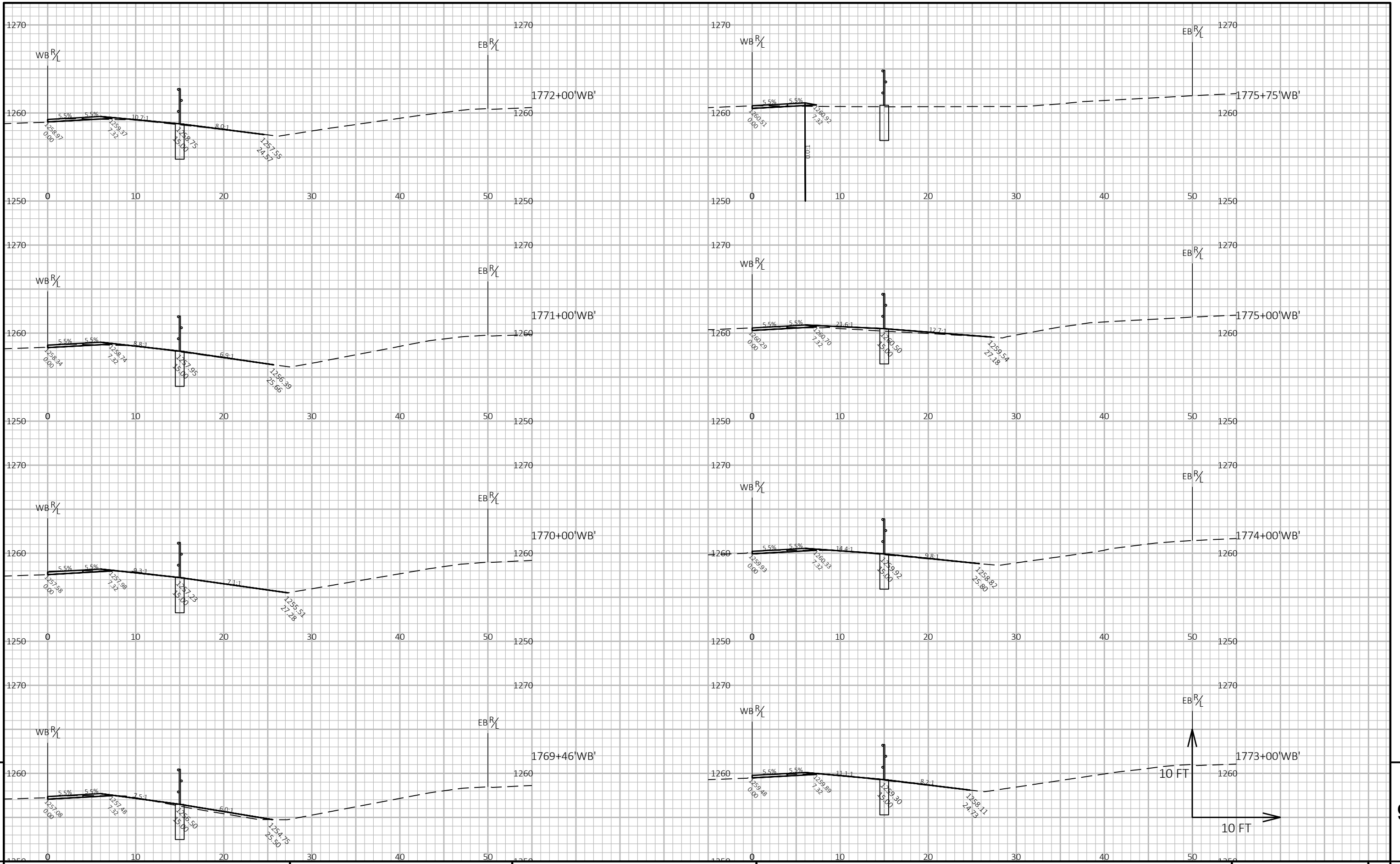
PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - IOWA COUNTY SHEET

FILE NAME: P:\2018 PROJECTS\5018041 - WISDOT SWR US 18_151\CIVIL3D\SHEETSP\1204-05-76\090201-XS (IOWA COUNTY).DWG PLOT DATE: 1/17/2020 11:21 AM PLOT BY: BRETT PETERSON PLOT NAME: PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49





PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - DANE COUNTY SHEET 9



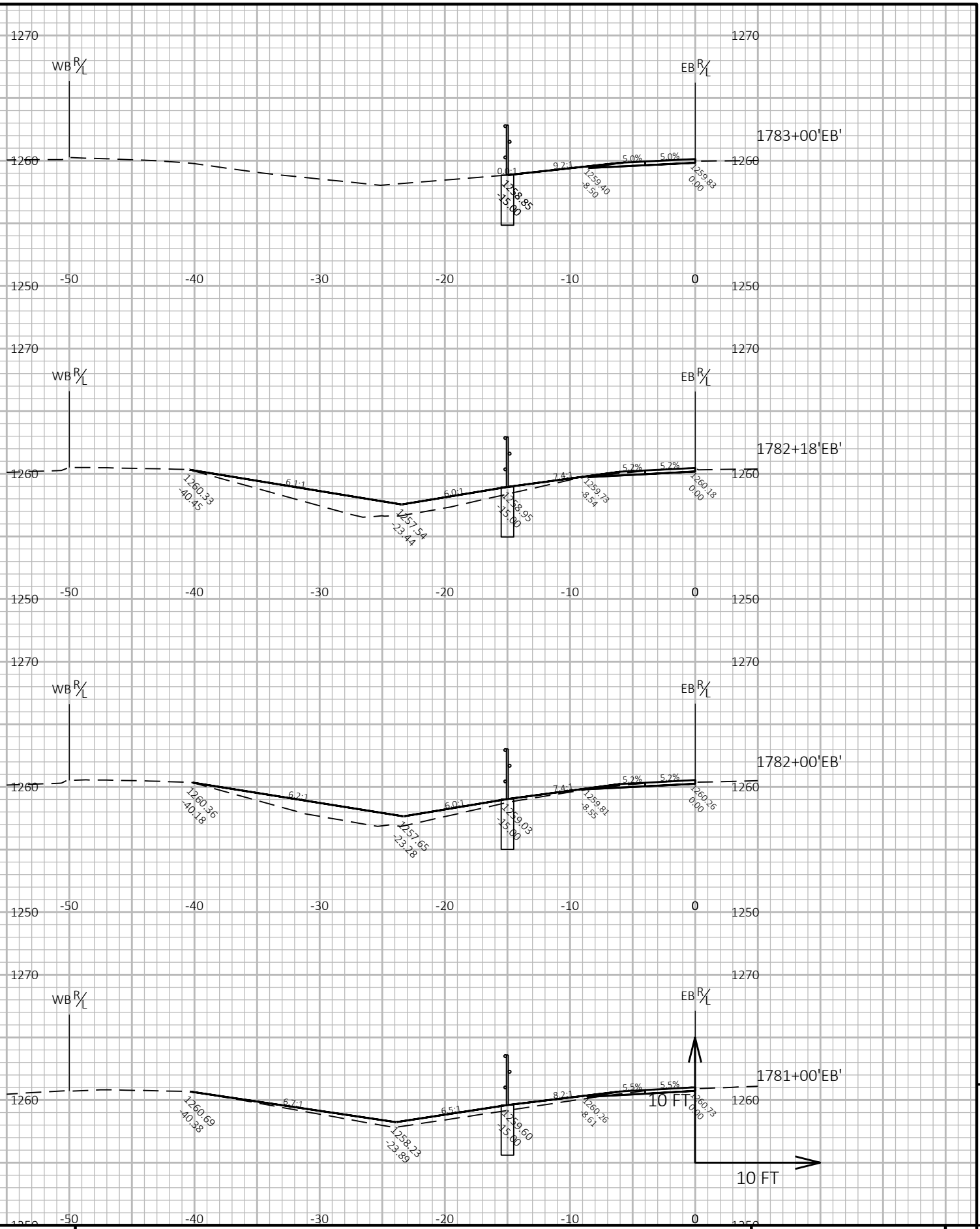
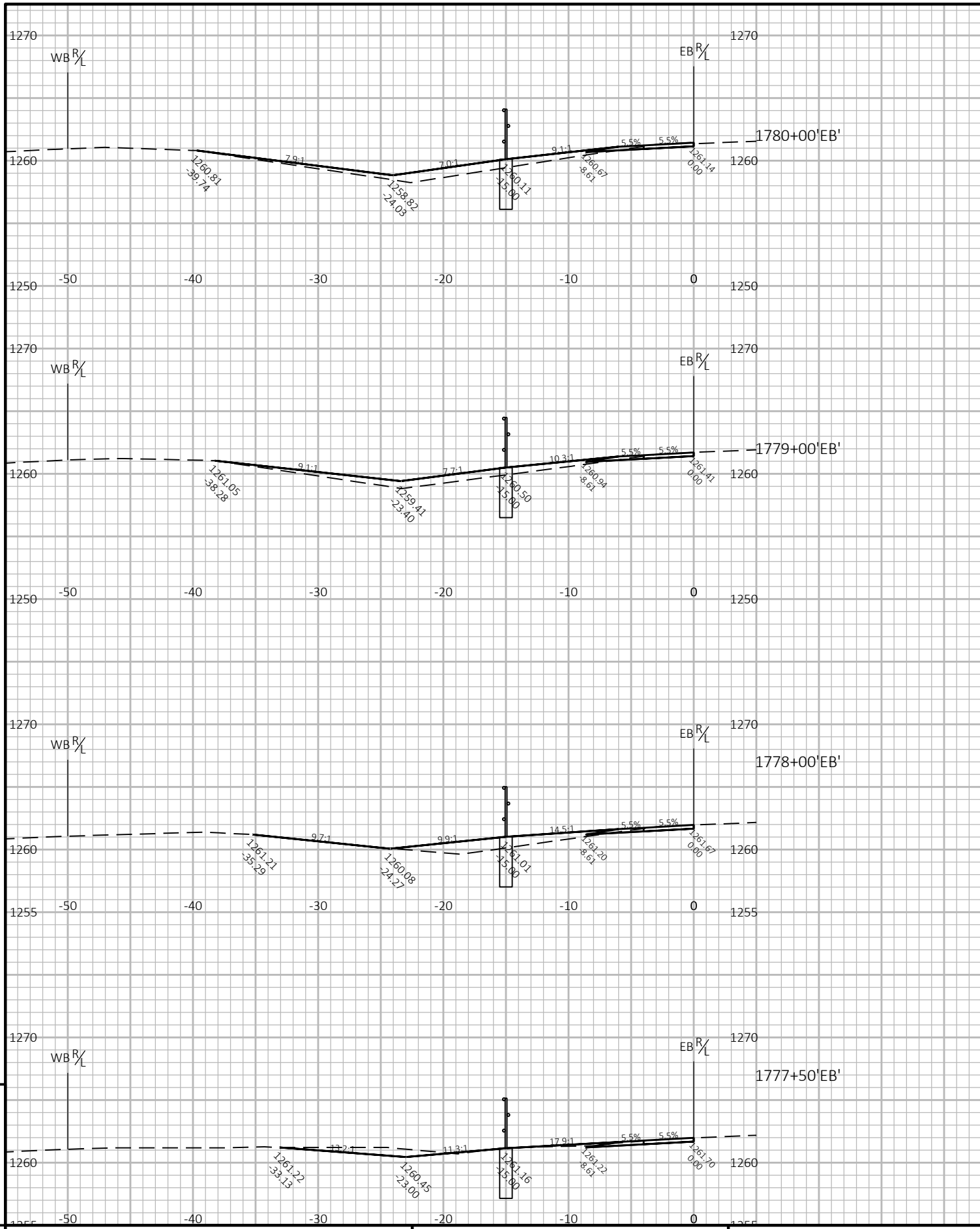
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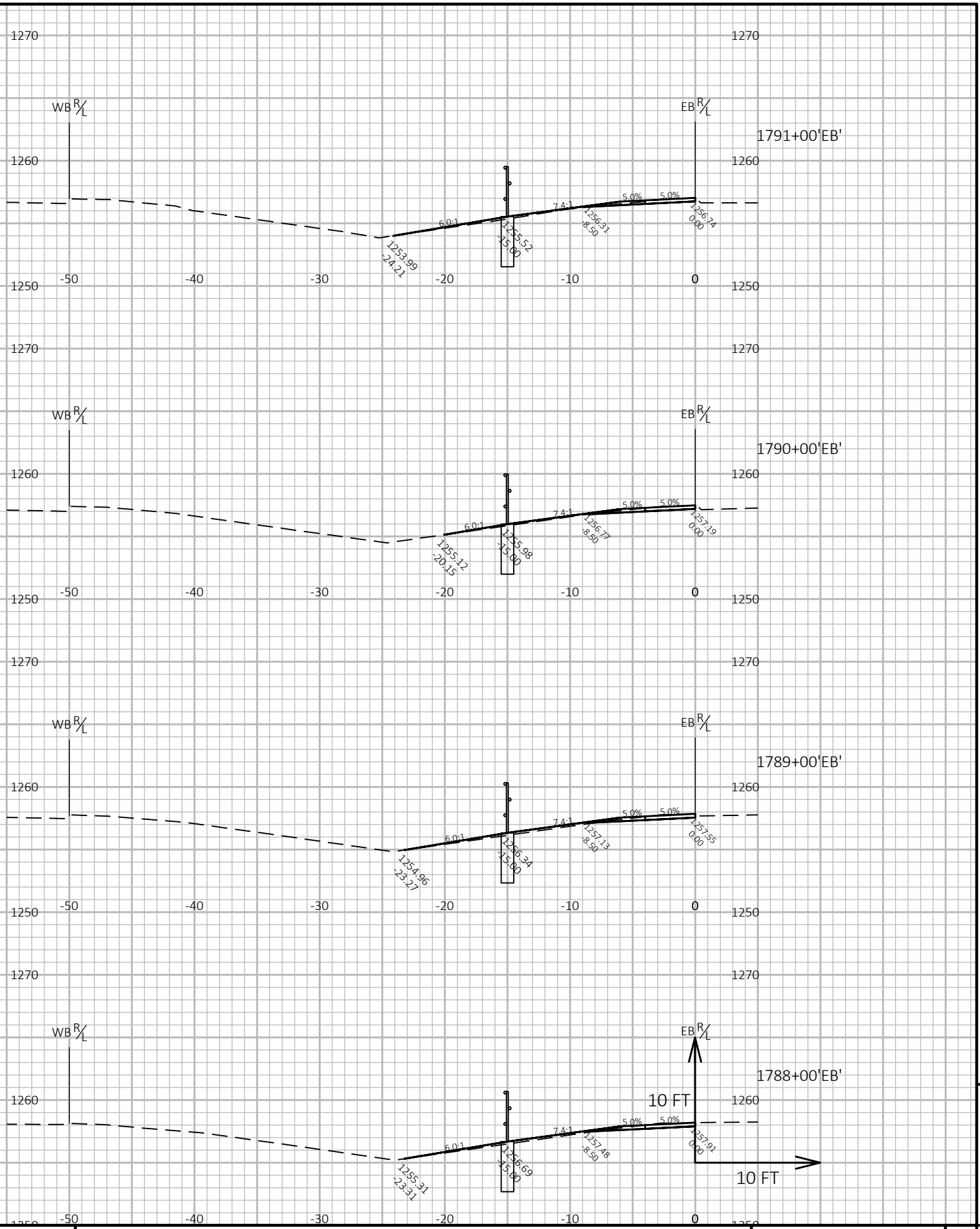
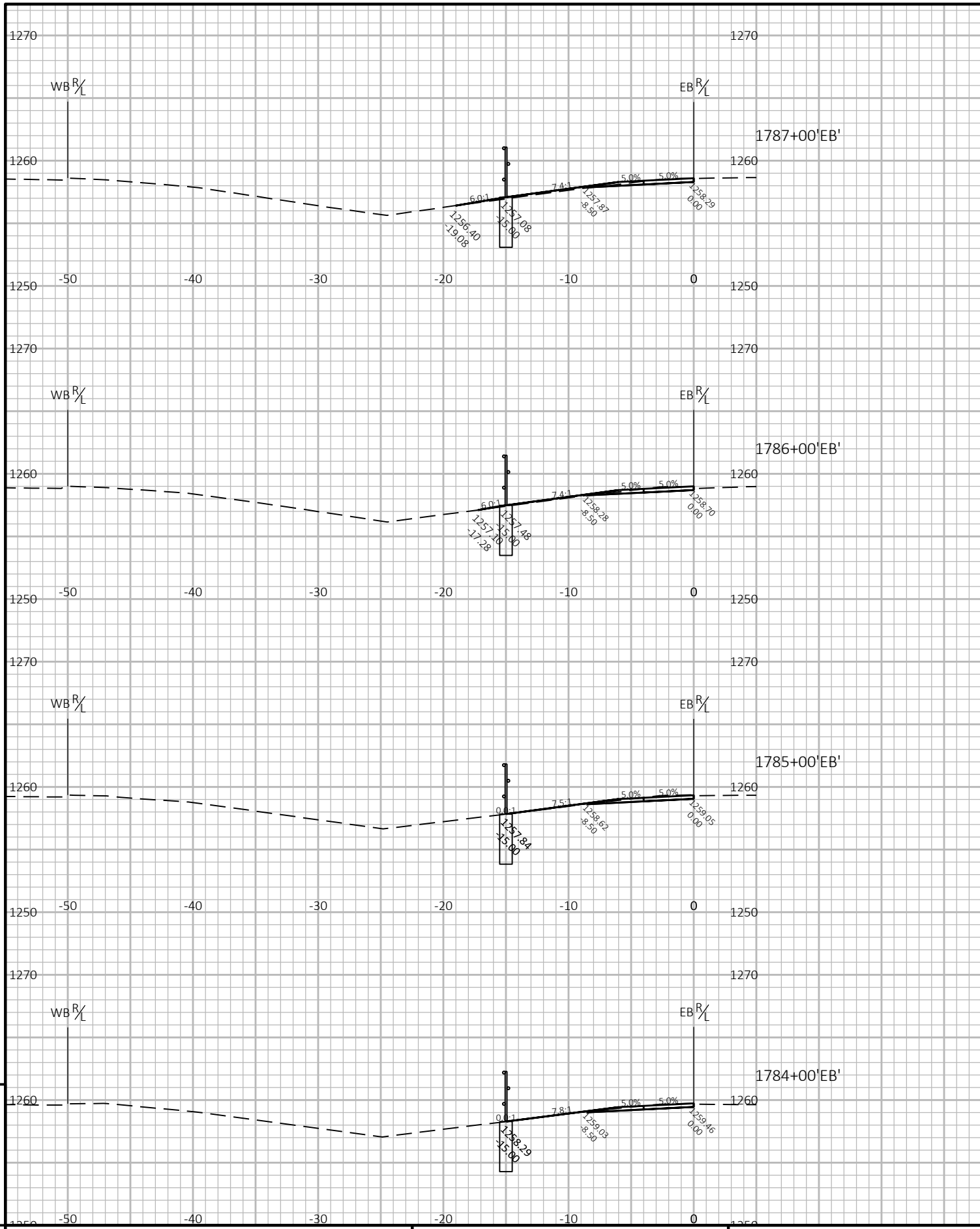
PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - DANE COUNTY SHEET E

FILE NAME : P:\2018 PROJECTS\5018041 - WISDOT SWR US 18_151\CIVIL3D\SHEETSPLAN\1204-05-76\090202-XS (DANE COUNTY).DWG PLOT DATE : 4/15/2020 10:36 AM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 2



PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - DANE COUNTY SHEET E



PROJECT NO: 1204-05-76

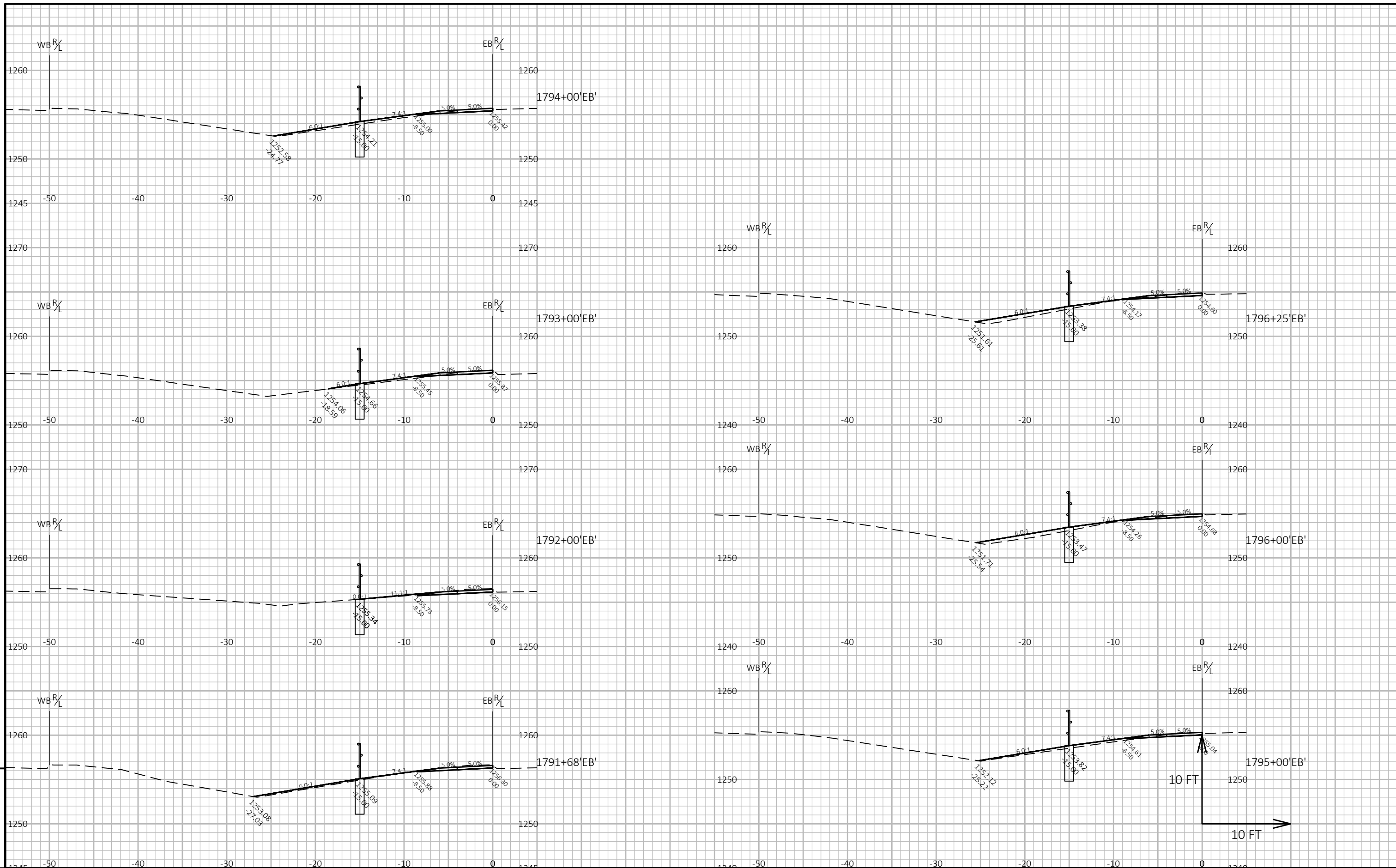
HWY: USH 18

COUNTY: IOWA & DANE

CROSS SECTIONS: CROSS SECTIONS - DANE COUNTY

SHEET

E



9

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PROJECT NO: 1204-05-76

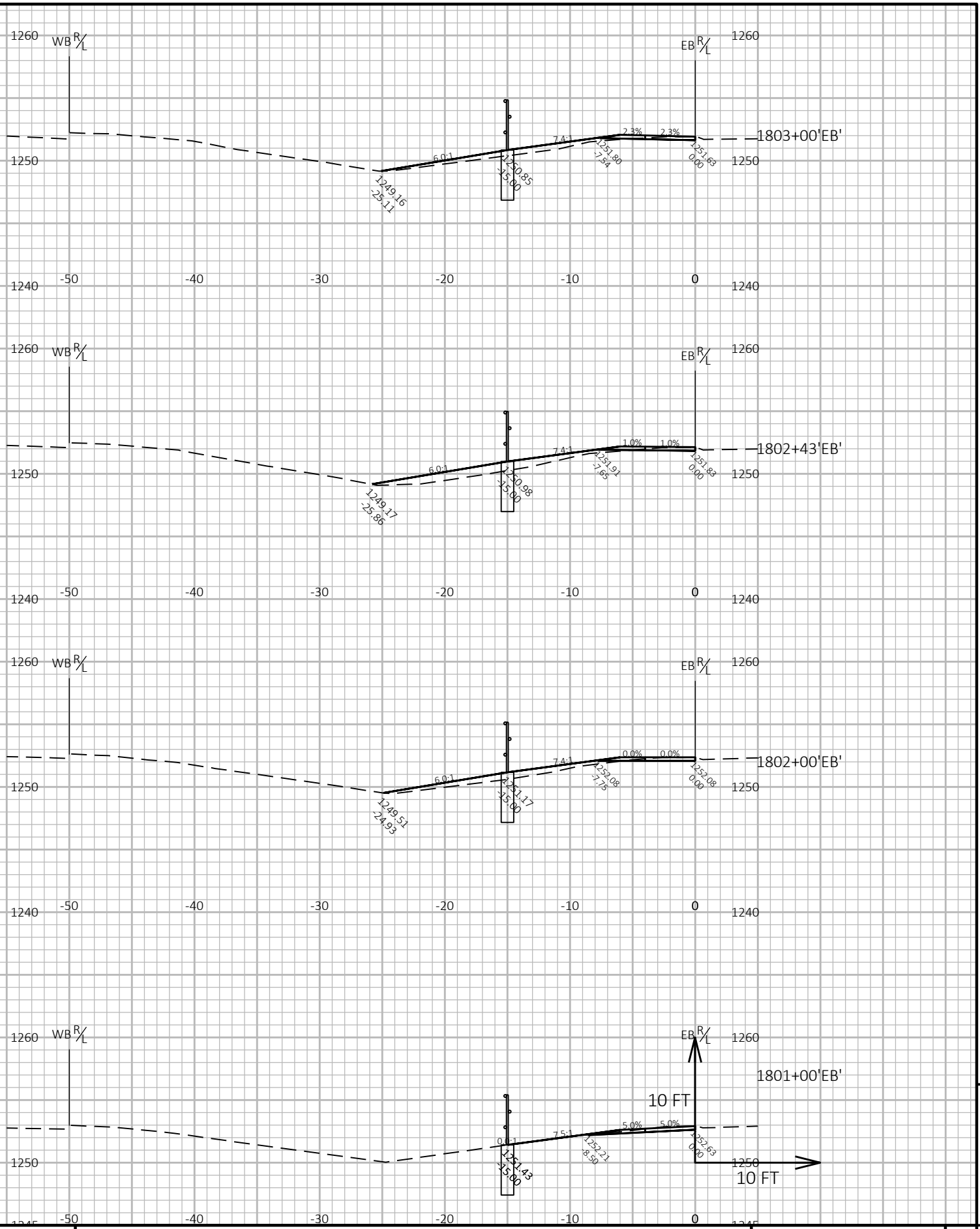
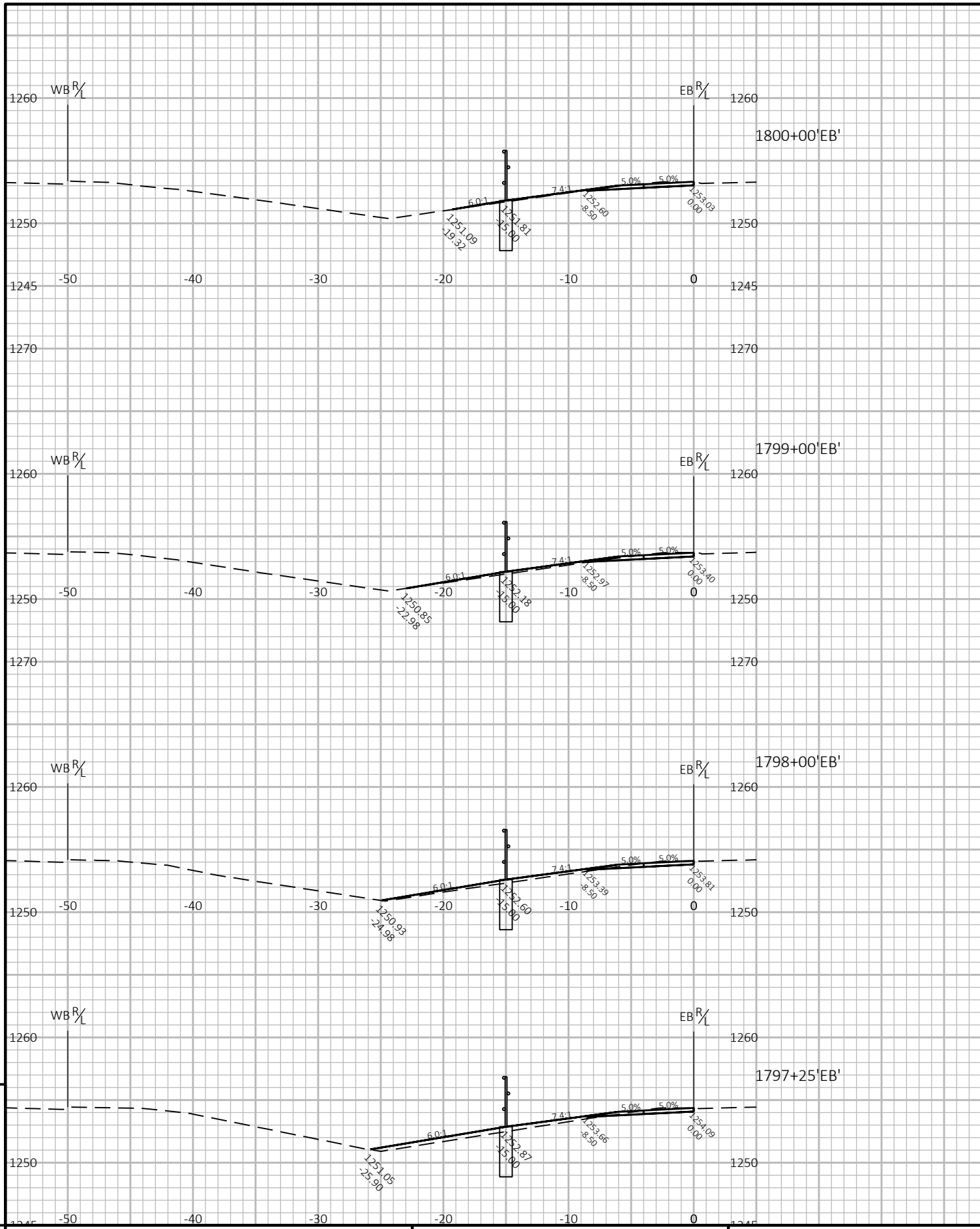
HWY: USH 18

COUNTY: IOWA & DANE

CROSS SECTIONS: CROSS SECTIONS - DANE COUNTY

SHEET

E



PROJECT NO: 1204-05-76

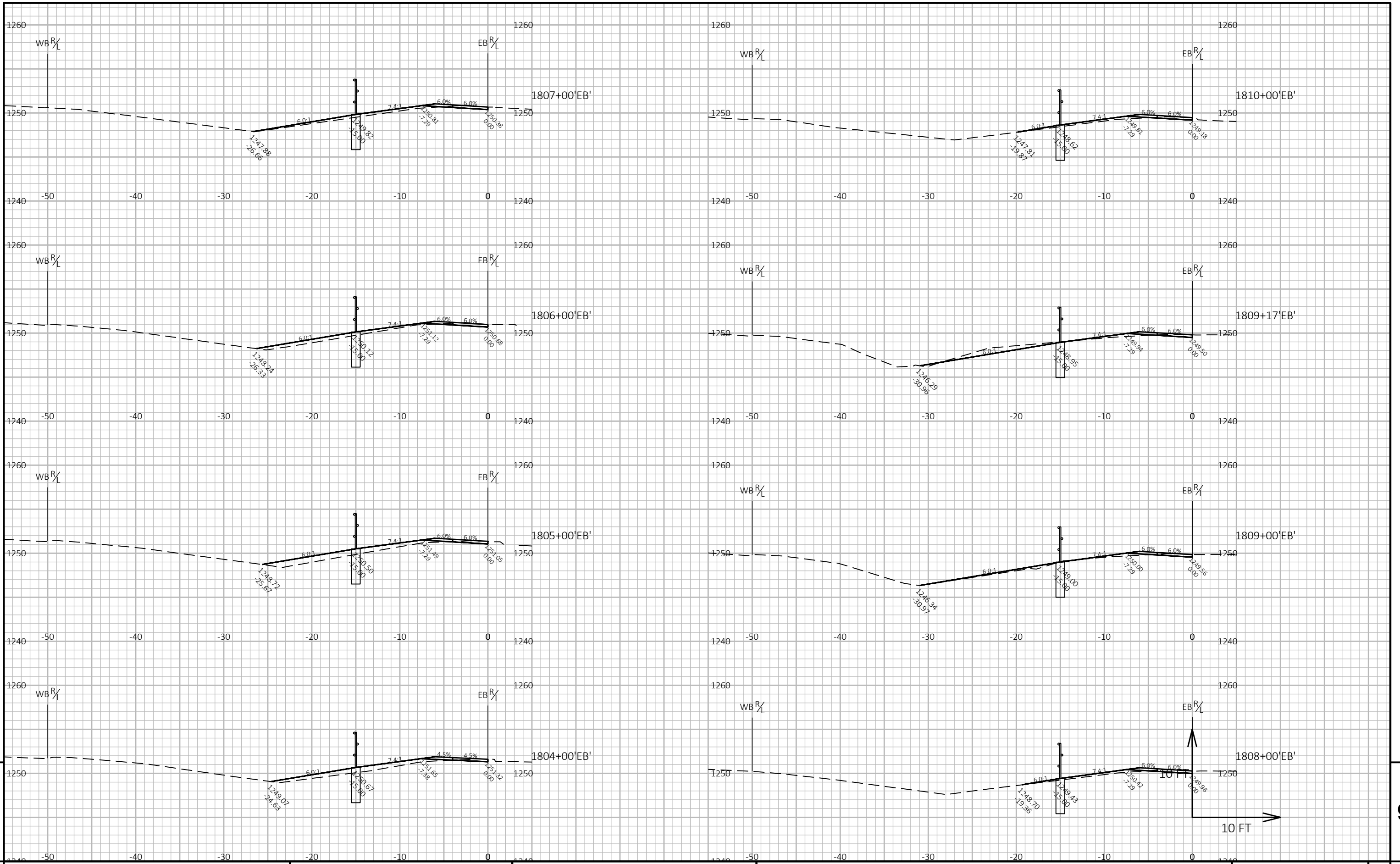
HWY: USH 18

COUNTY: IOWA & DANE

CROSS SECTIONS: CROSS SECTIONS - DANE COUNTY

SHEET

E



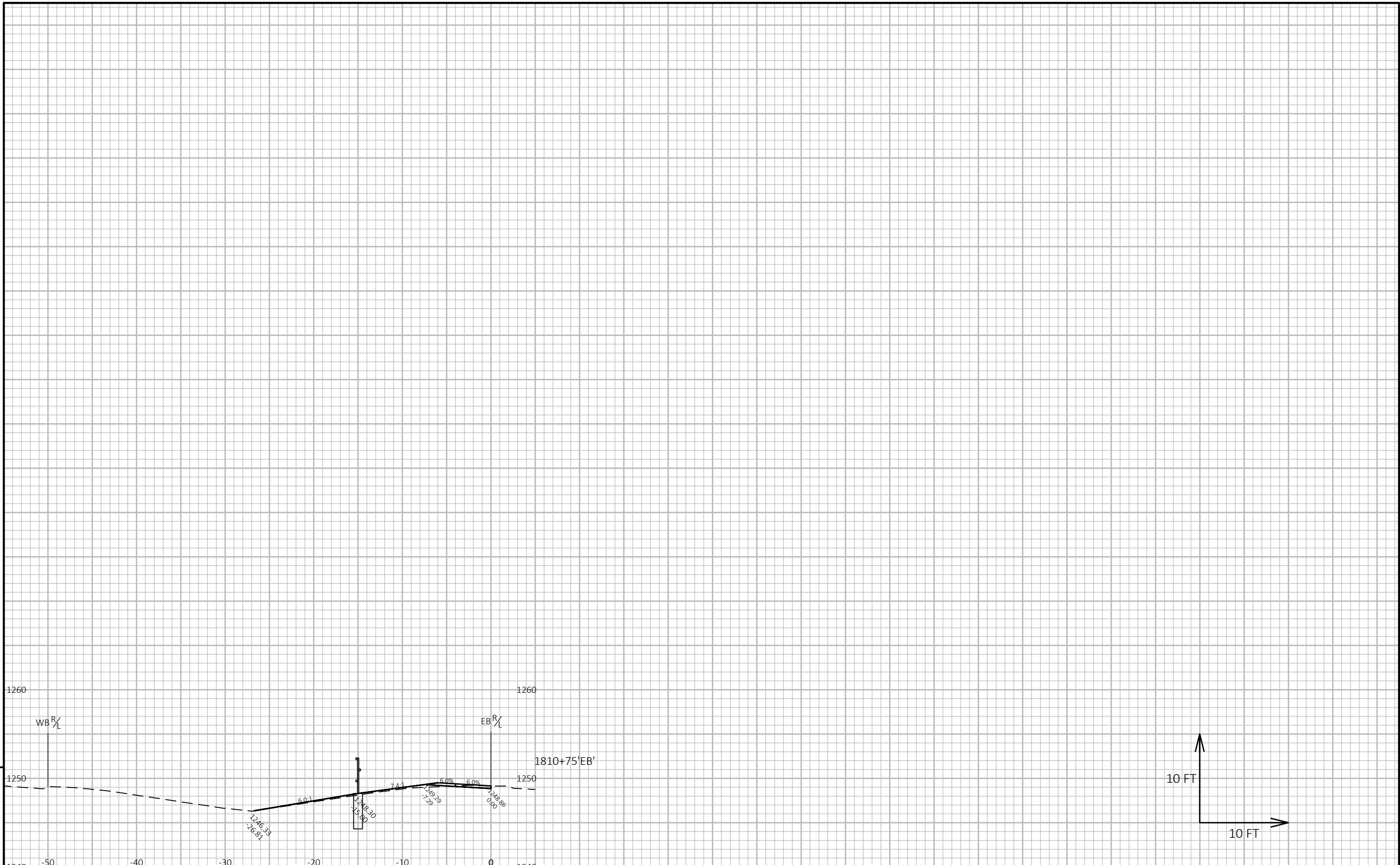
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PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - DANE COUNTY SHEET E

FILE NAME : P:\2018 PROJECTS\5018041 - WISDOT SWR US 18_151\CIVIL3D\SHEETSPLAN\1204-05-76\090202-XS (DANE COUNTY).DWG PLOT DATE : 4/15/2020 10:41 AM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

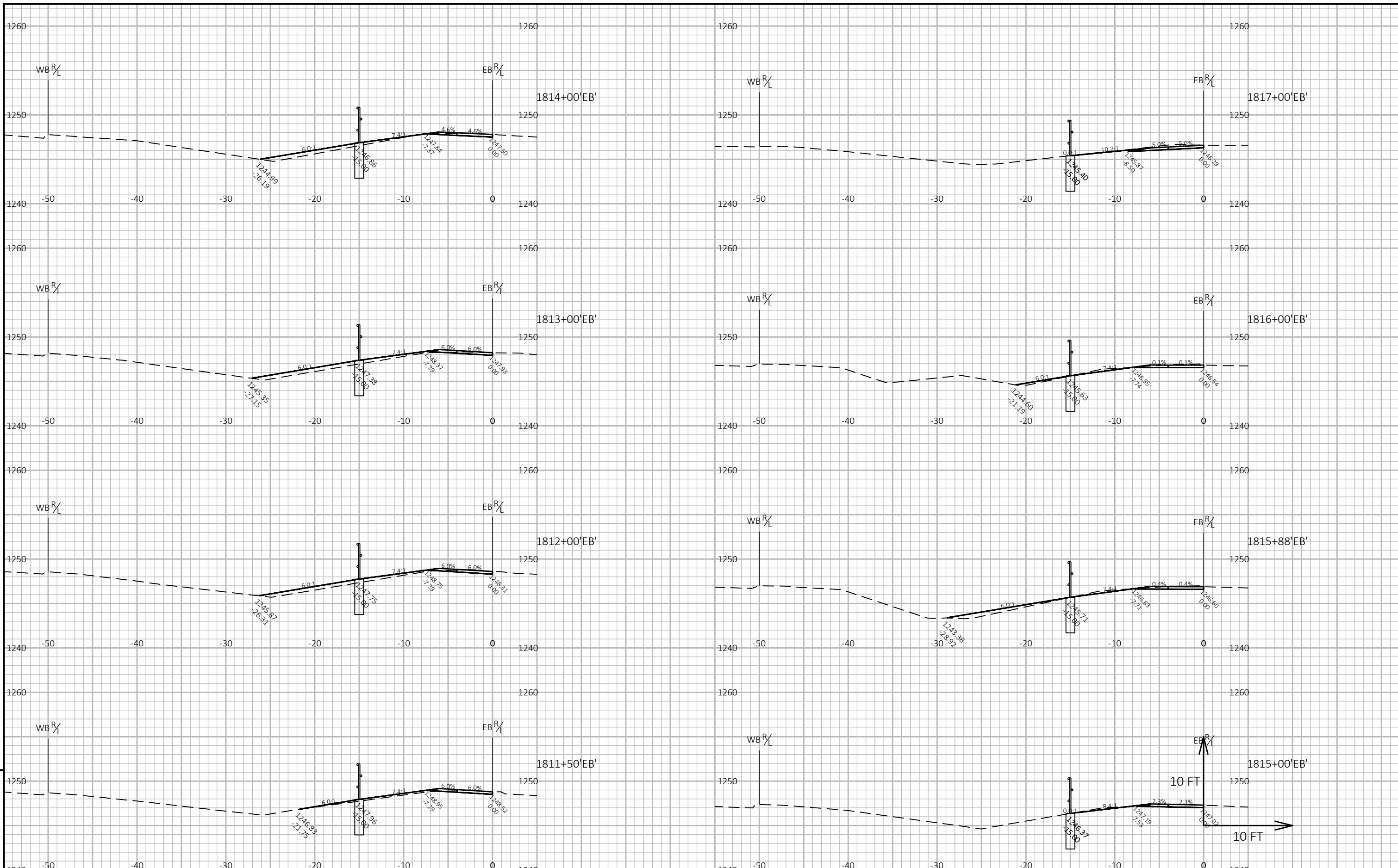
LAYOUT NAME - 7



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PROJECT NO: 1204-05-76	HWY: USH 18	COUNTY: IOWA & DANE	CROSS SECTIONS: CROSS SECTIONS - DANE COUNTY	SHEET	E
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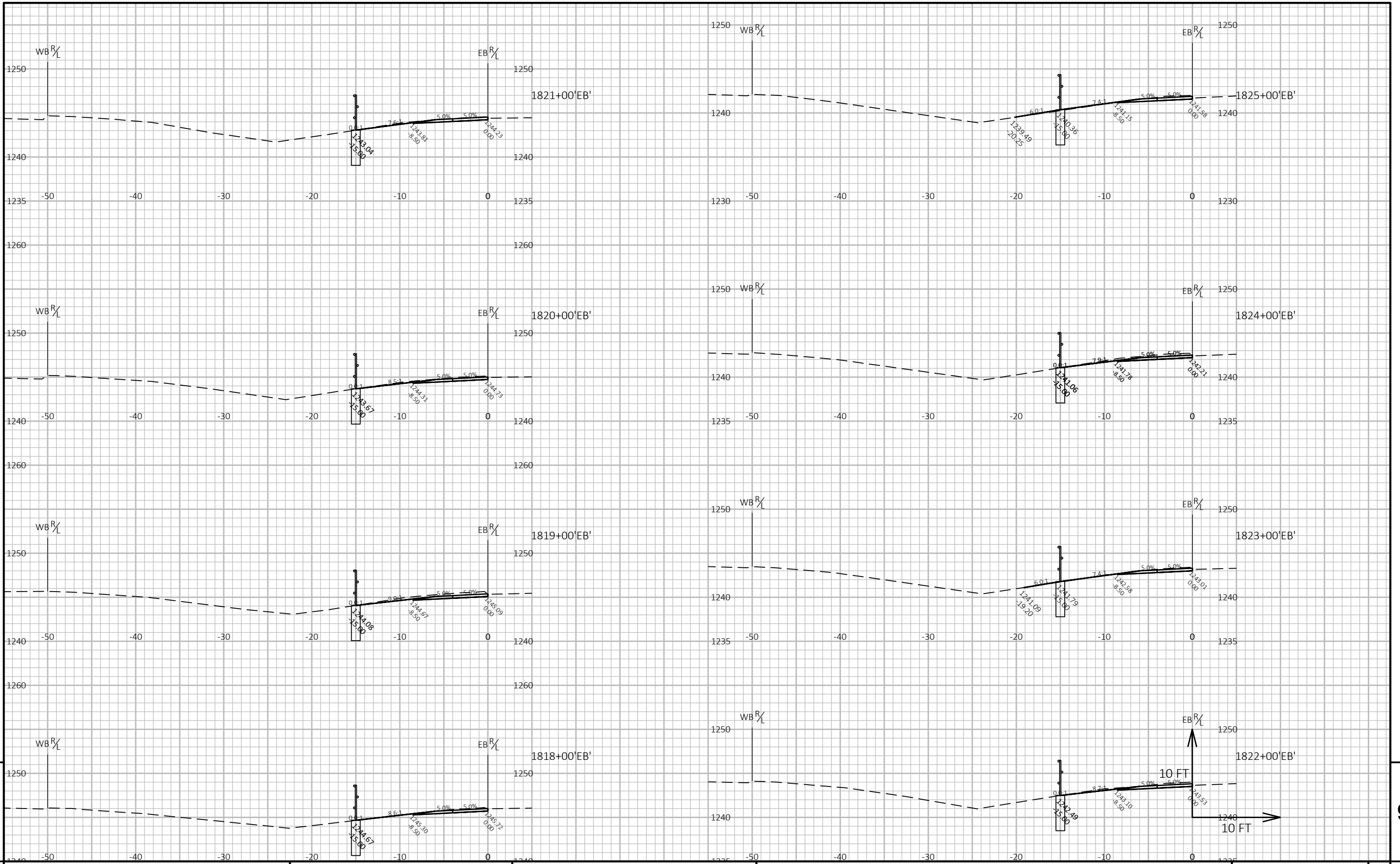


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PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - DANE COUNTY SHEET

FILE NAME: P:\2018 PROJECTS\5018041 - WISDOT SWR US 18_151\CIVIL3D\SHEETSPLAN\1204-05-76\090202-XS (DANE COUNTY).DWG PLOT DATE: 4/15/2020 10:43 AM PLOT BY: BRETT PETERSON PLOT NAME: PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49



PROJECT NO: 1204-05-76

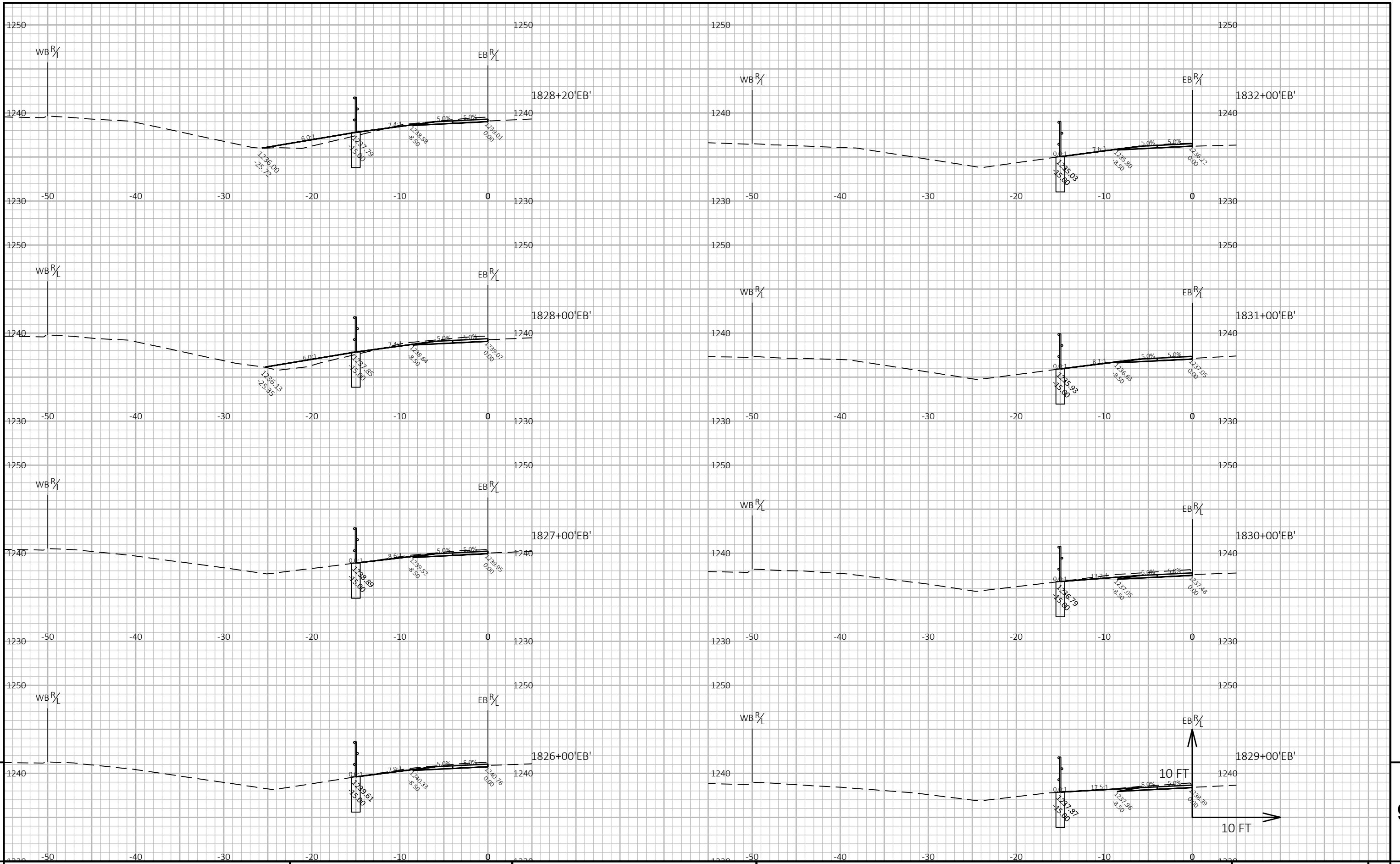
HWY: USH 18

COUNTY: IOWA & DANE

CROSS SECTIONS: CROSS SECTIONS - DANE COUNTY

SHEET

E



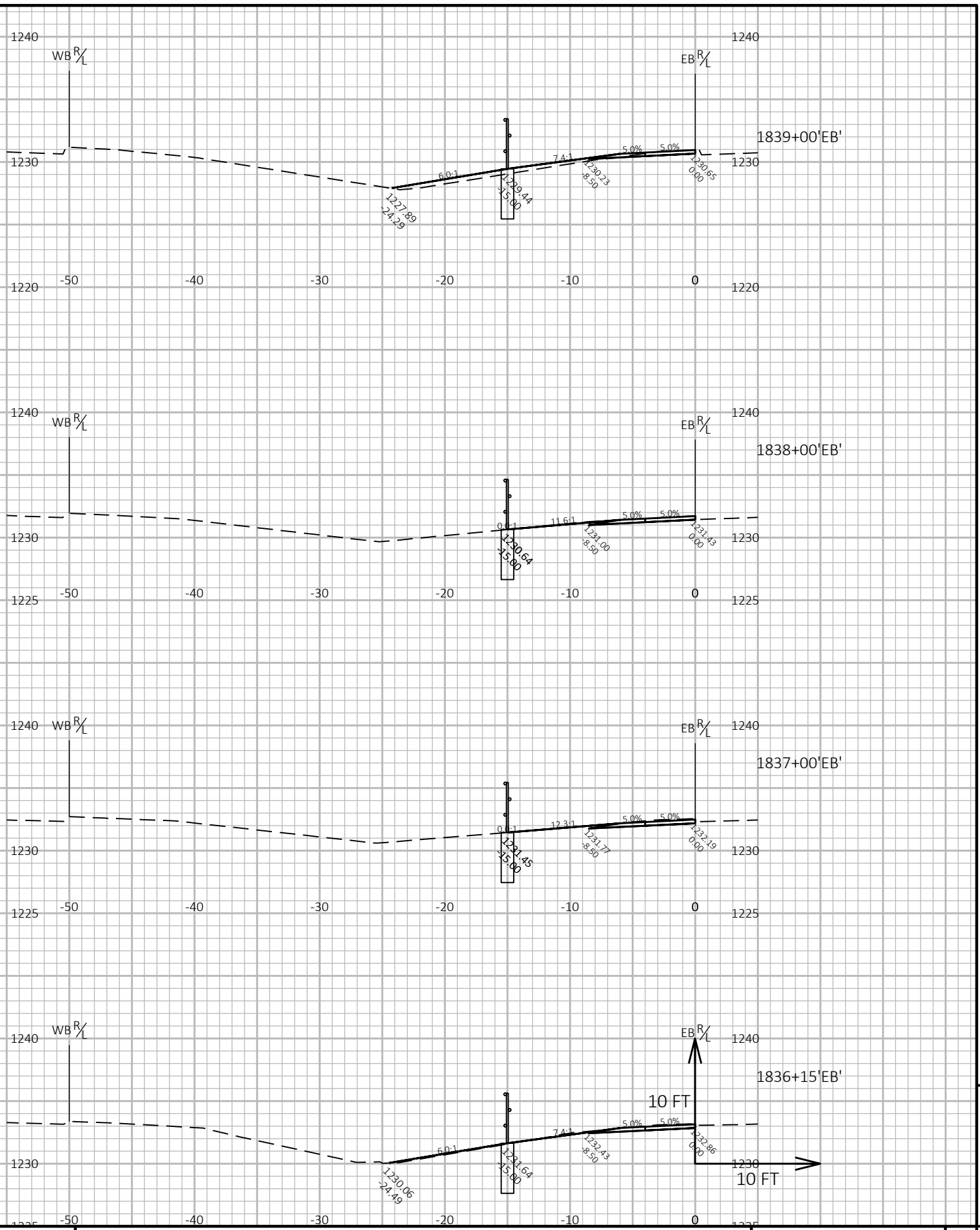
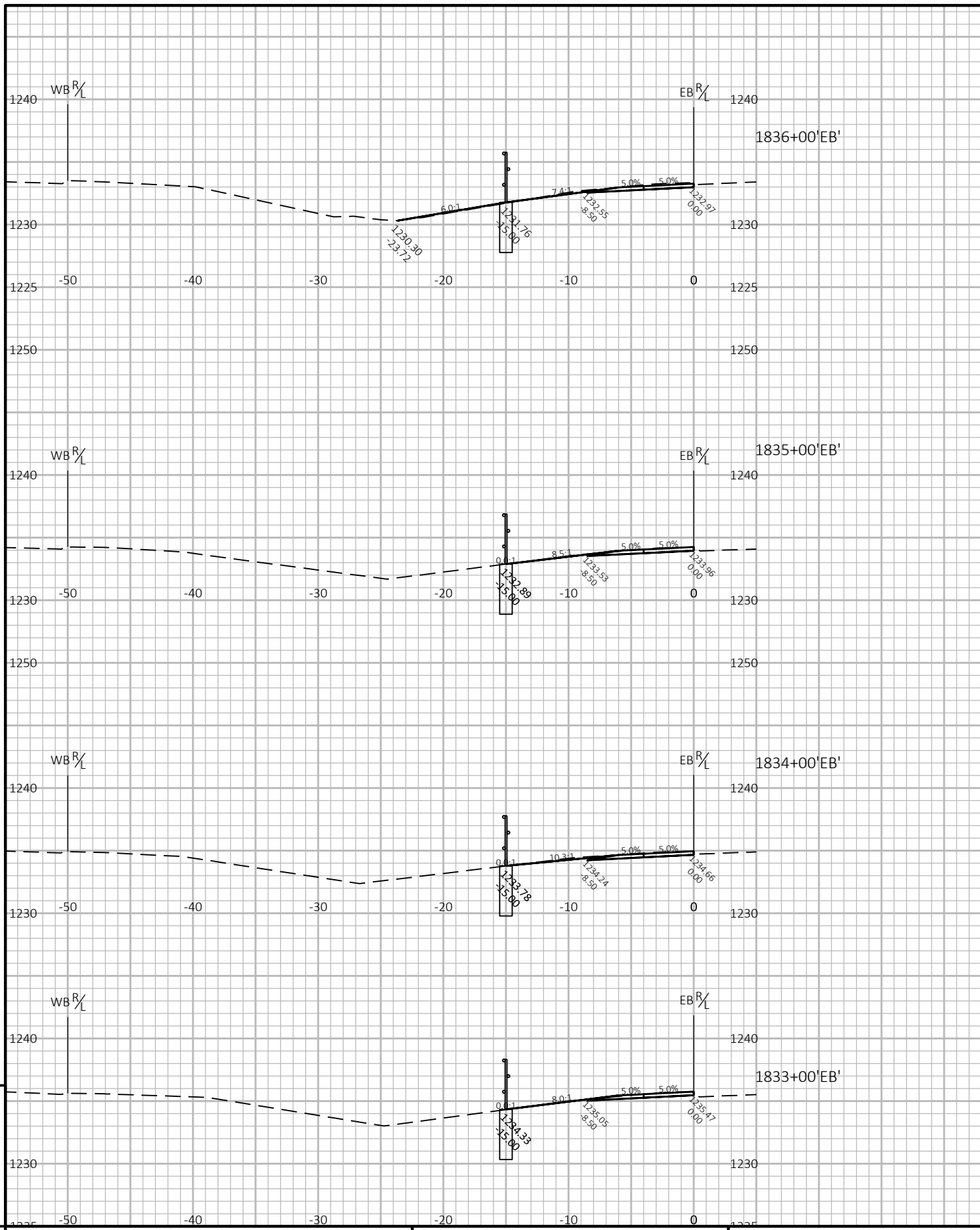
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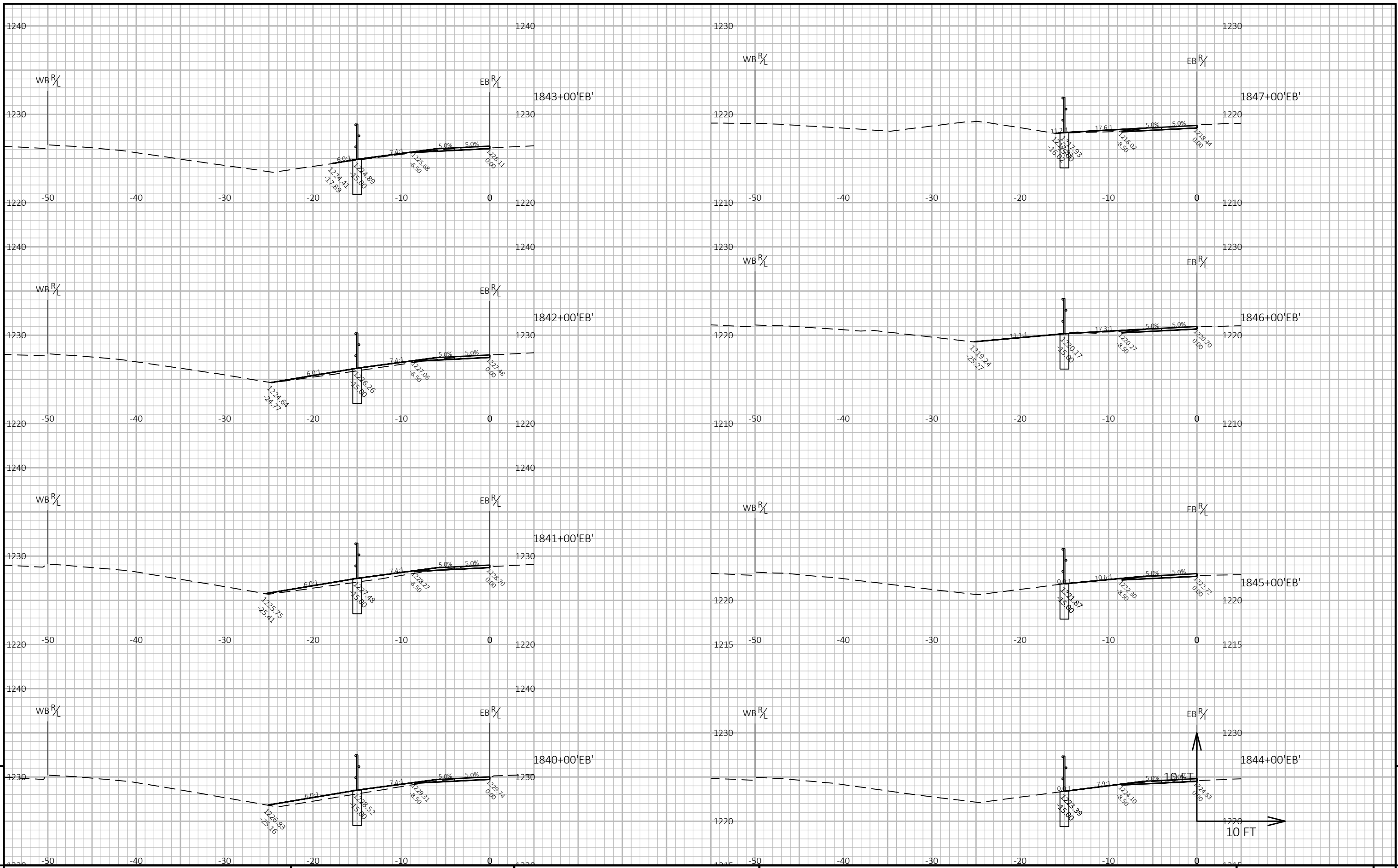
PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - DANE COUNTY SHEET E

FILE NAME : P:\2018 PROJECTS\5018041 - WISDOT SWR US 18_151\CIVIL3D\SHEETPLAN\1204-05-76\090202-XS (DANE COUNTY).DWG PLOT DATE : 4/15/2020 10:45 AM PLOT BY : BRETT PETERSON PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 11



PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - DANE COUNTY SHEET 9



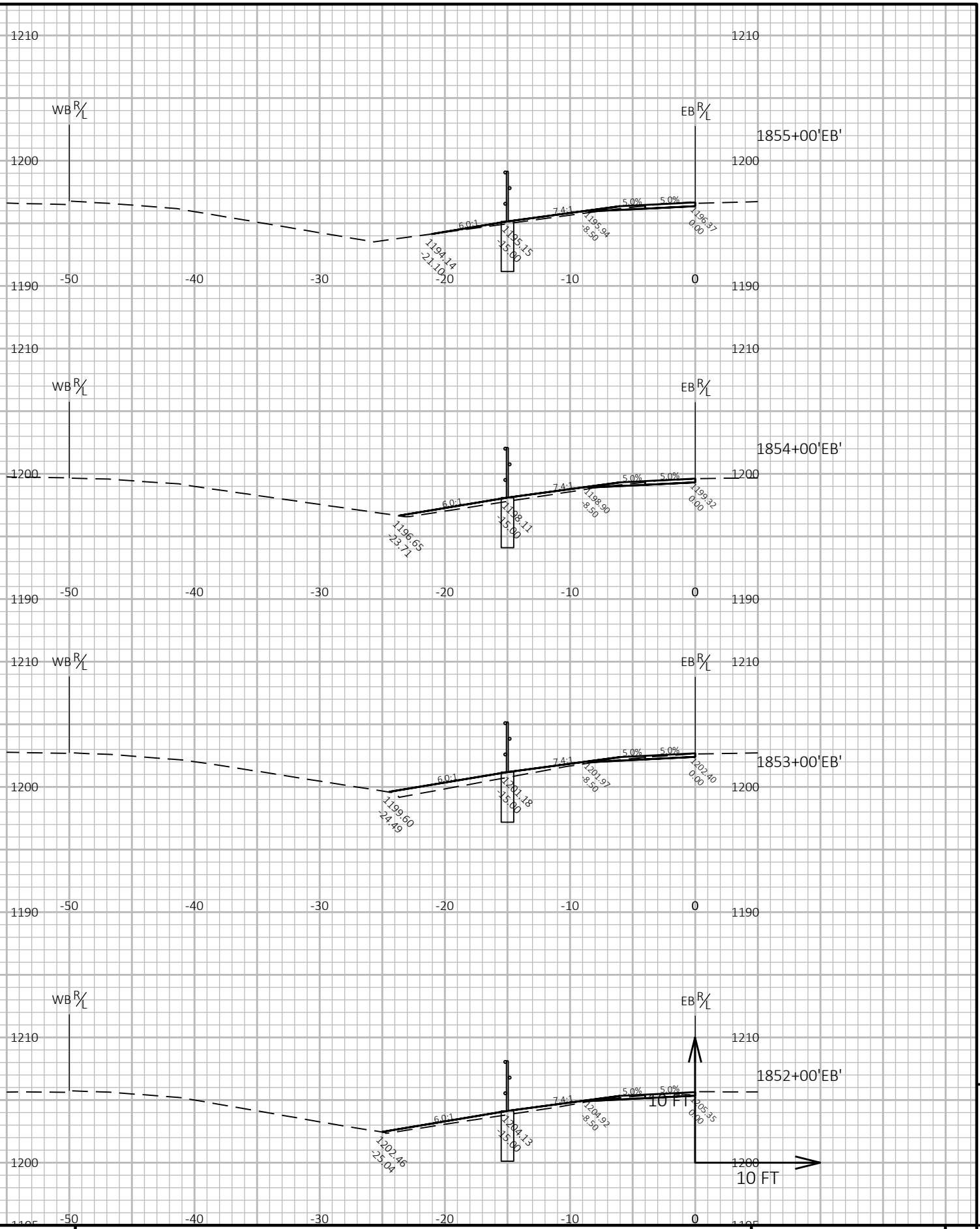
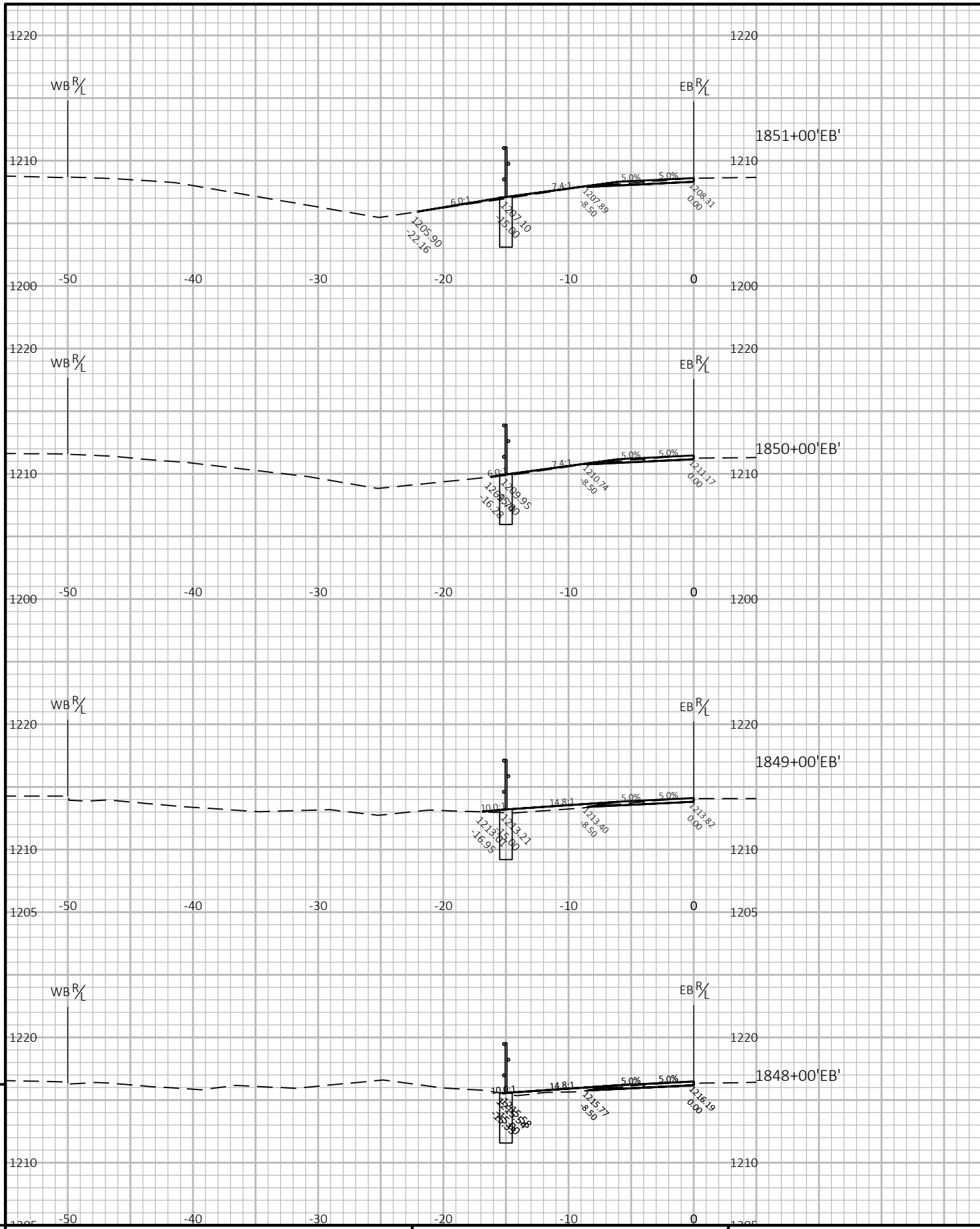
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PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - DANE COUNTY SHEET E

FILE NAME: P:\2018 PROJECTS\5018041 - WISDOT SWR US 18_151\CIVIL3D\SHEETSPLAN\1204-05-76\090202-XS (DANE COUNTY).DWG PLOT DATE: 4/15/2020 10:47 AM PLOT BY: BRETT PETERSON PLOT NAME: PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 13



PROJECT NO: 1204-05-76

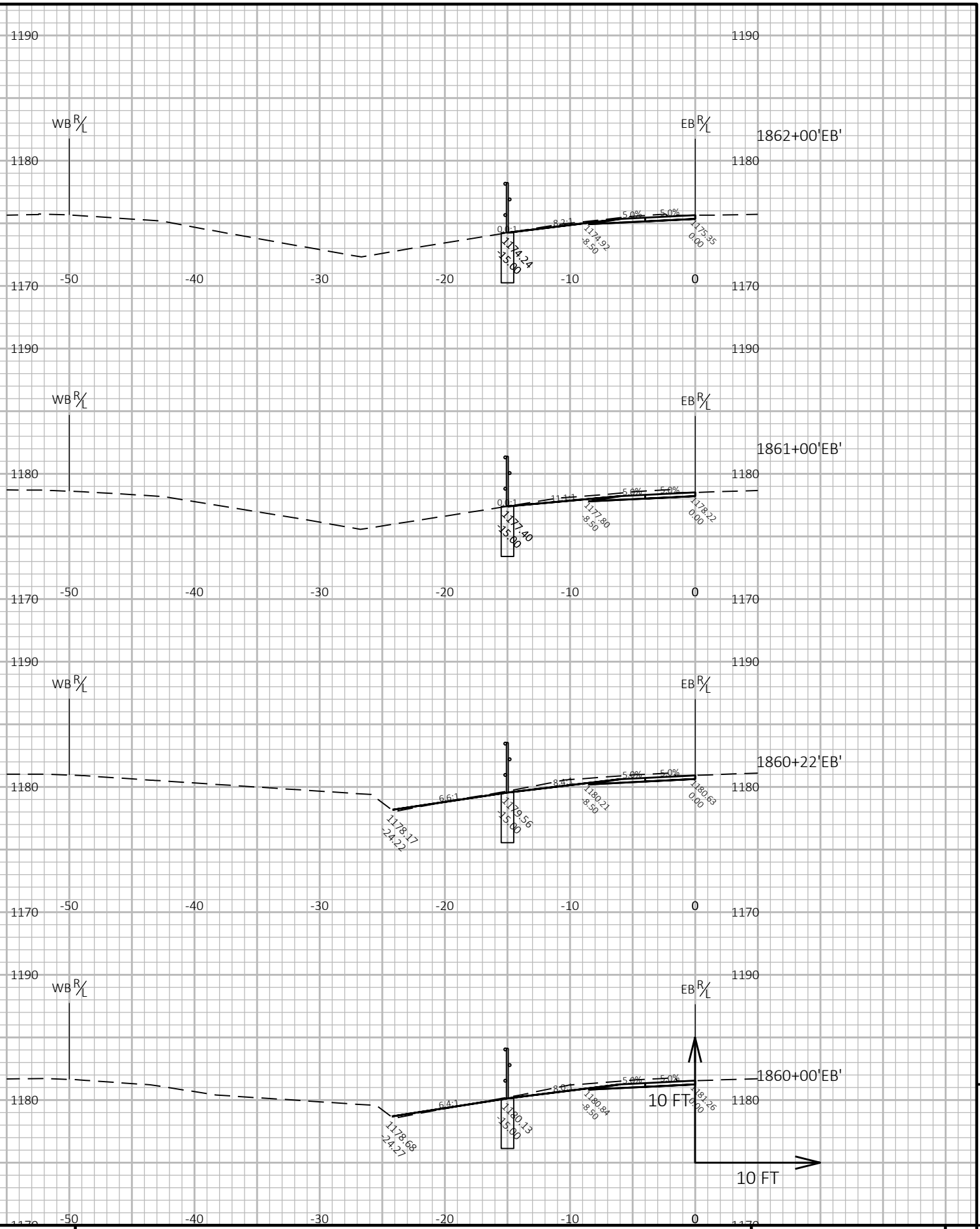
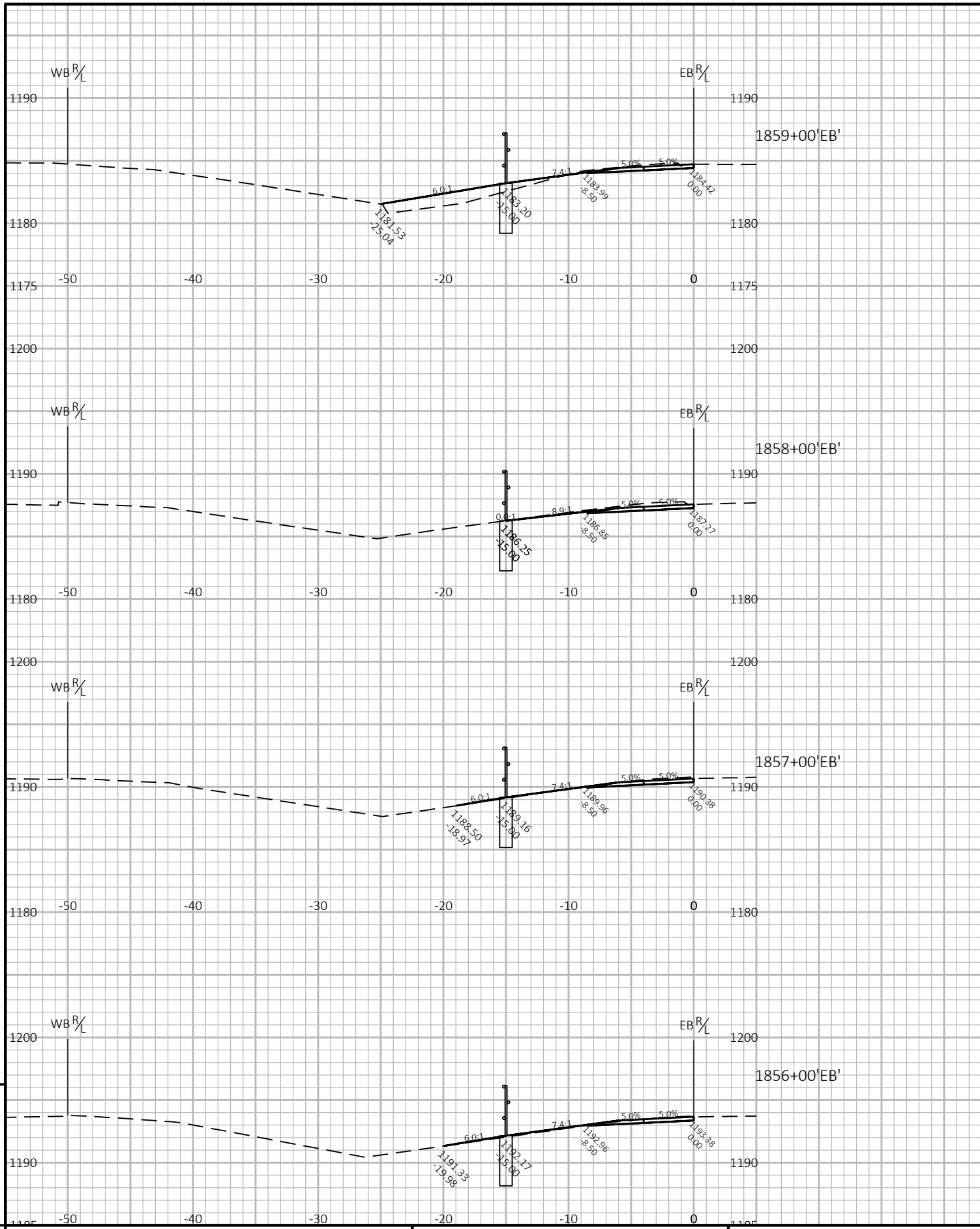
HWY: USH 18

COUNTY: IOWA & DANE

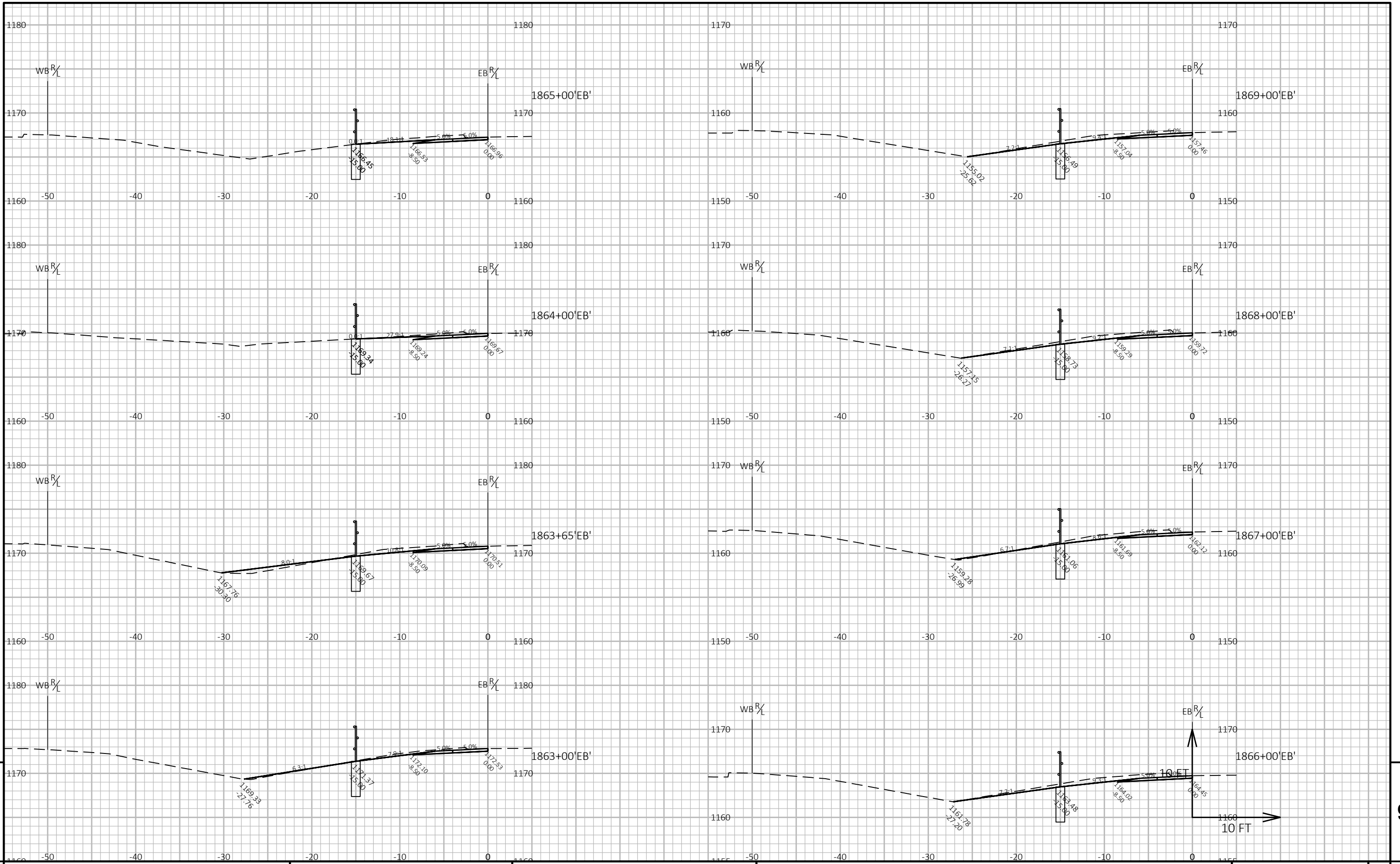
CROSS SECTIONS: CROSS SECTIONS - DANE COUNTY

SHEET

E



PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - DANE COUNTY SHEET E



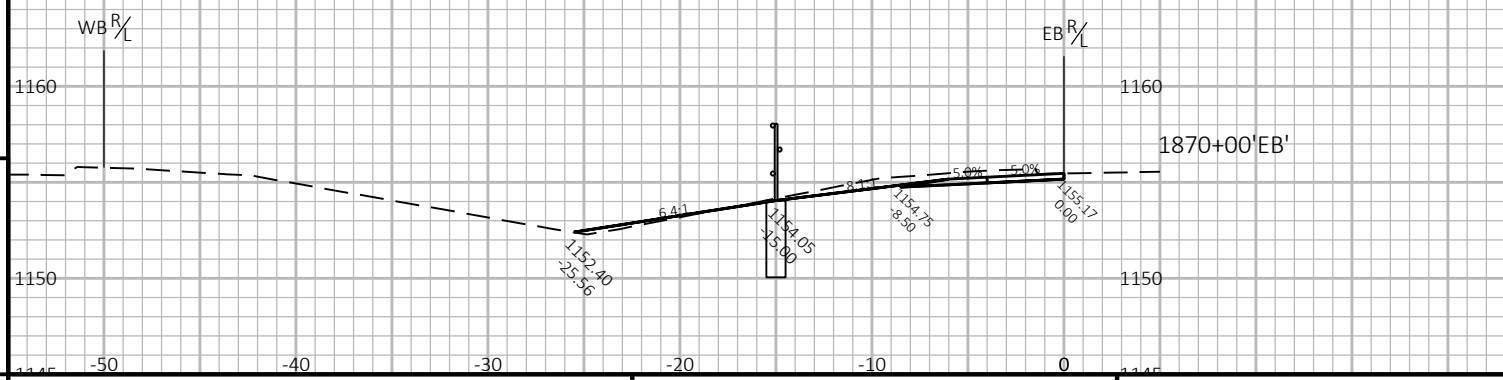
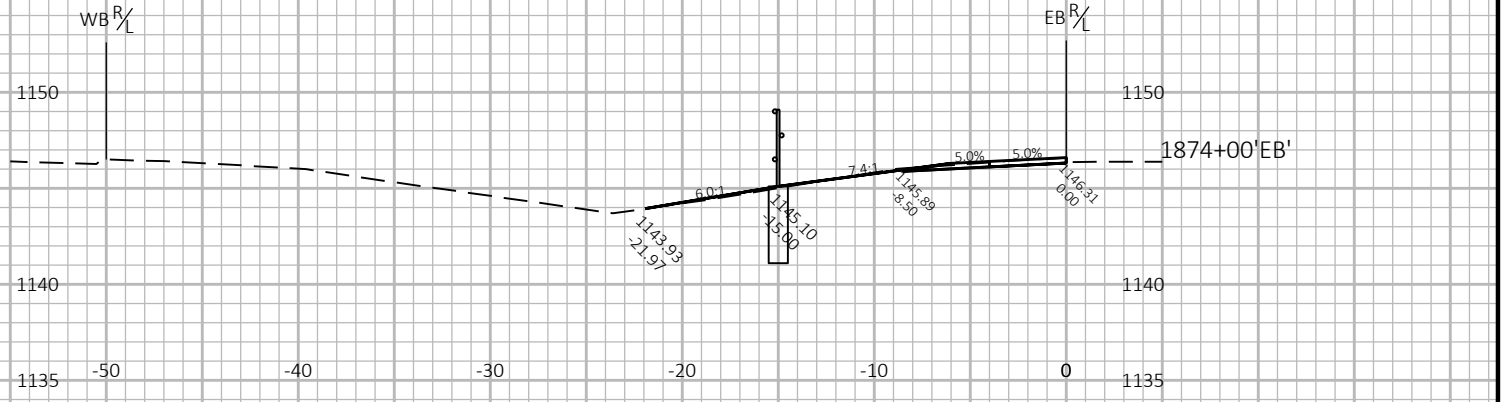
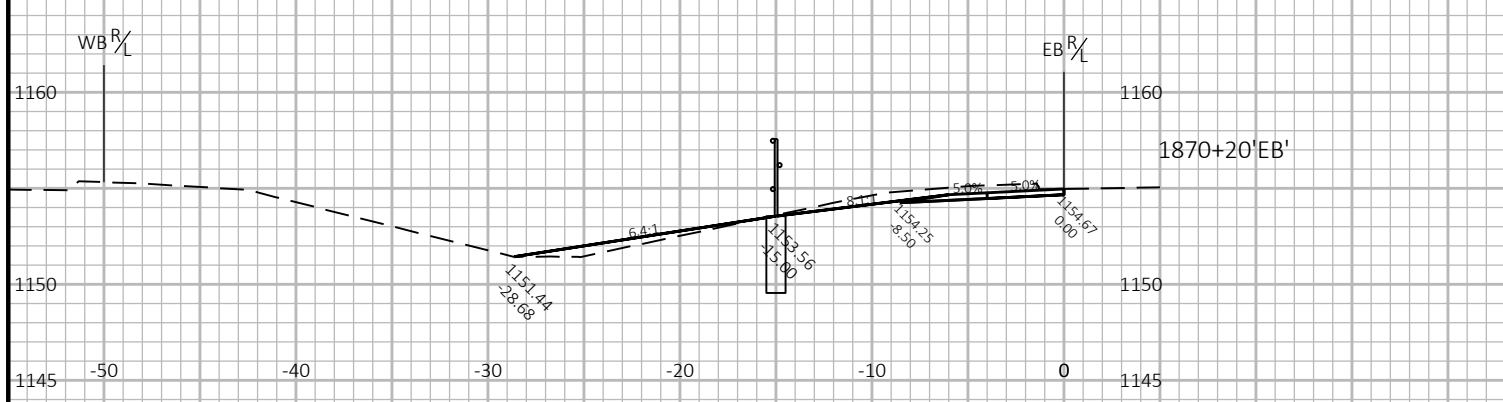
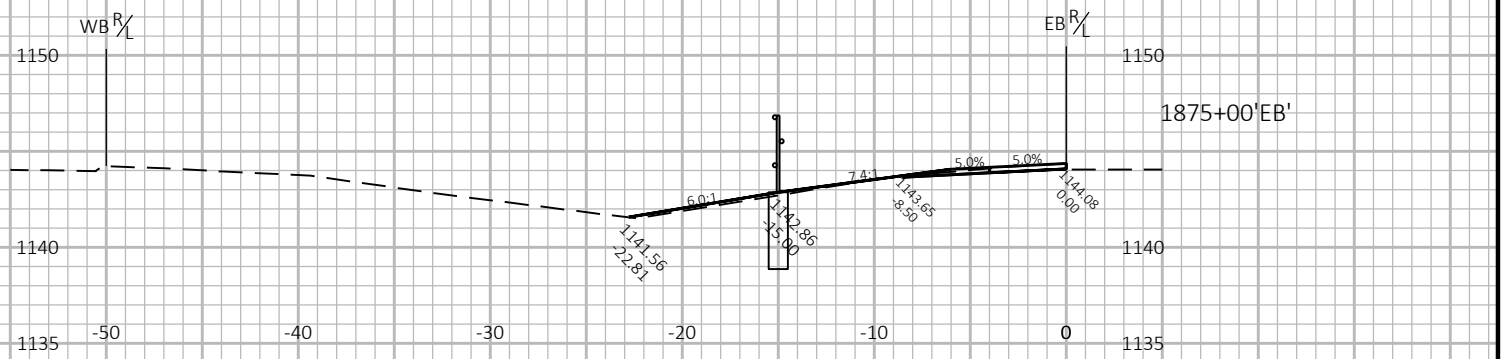
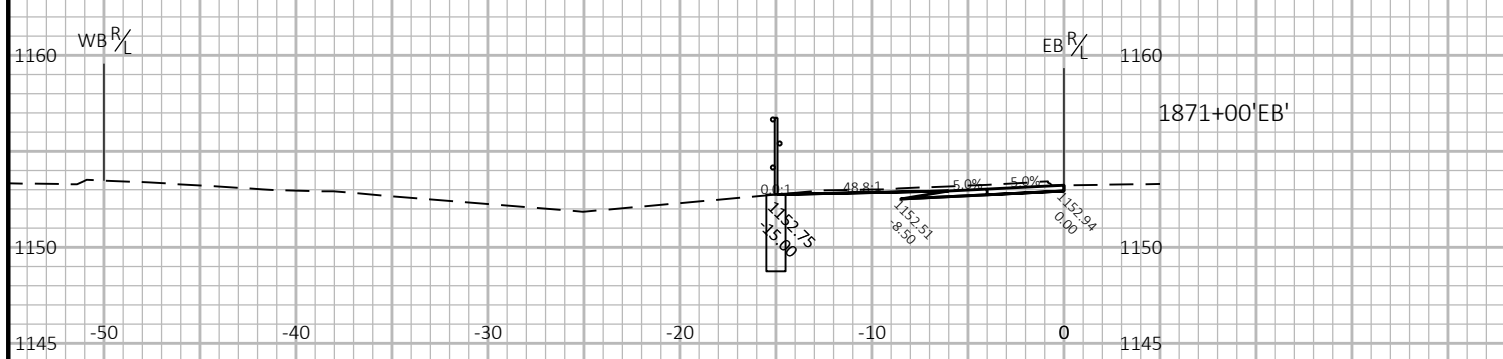
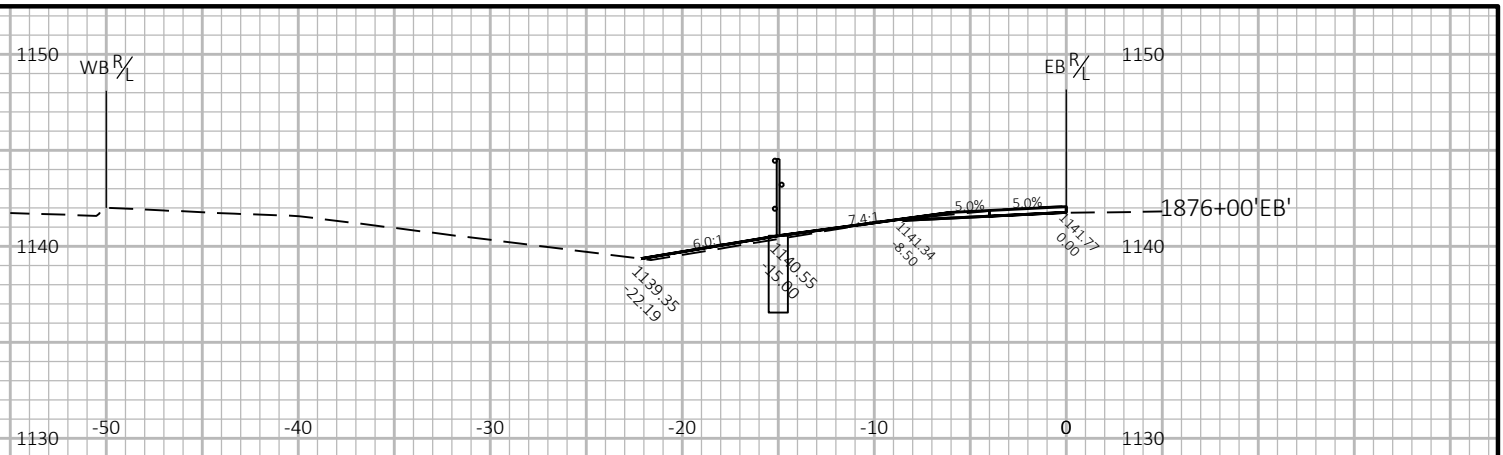
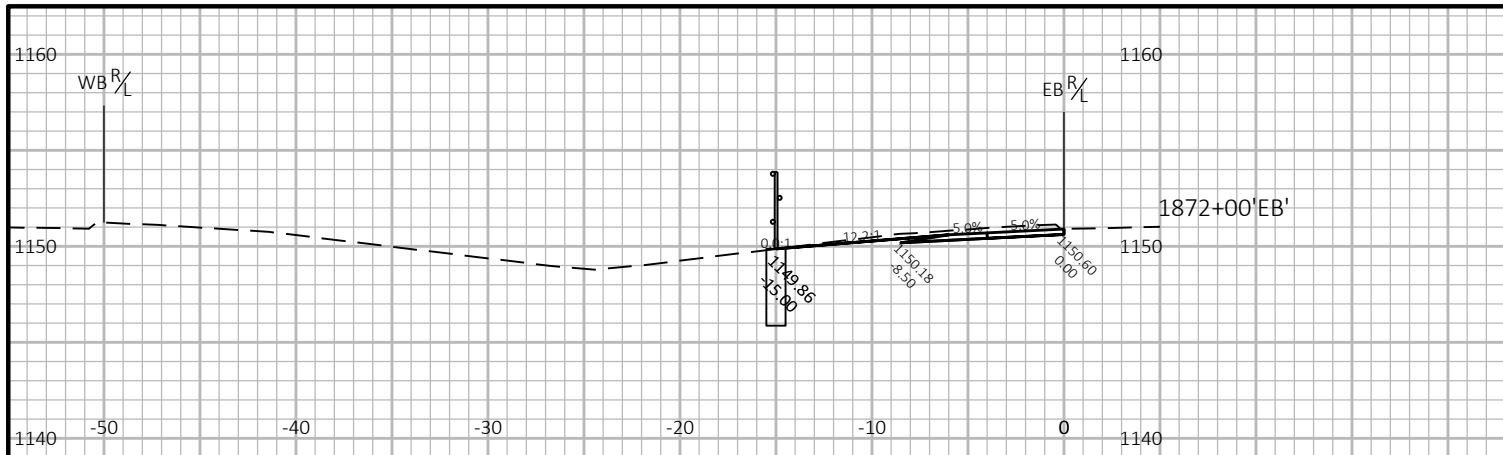
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PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - DANE COUNTY SHEET E

FILE NAME: P:\2018 PROJECTS\5018041 - WISDOT SWR US 18_151\CIVIL3D\SHEETSPLAN\1204-05-76\090202-XS (DANE COUNTY).DWG PLOT DATE: 4/15/2020 10:50 AM PLOT BY: BRETT PETERSON PLOT NAME: PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - 16



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9

PROJECT NO: 1204-05-76

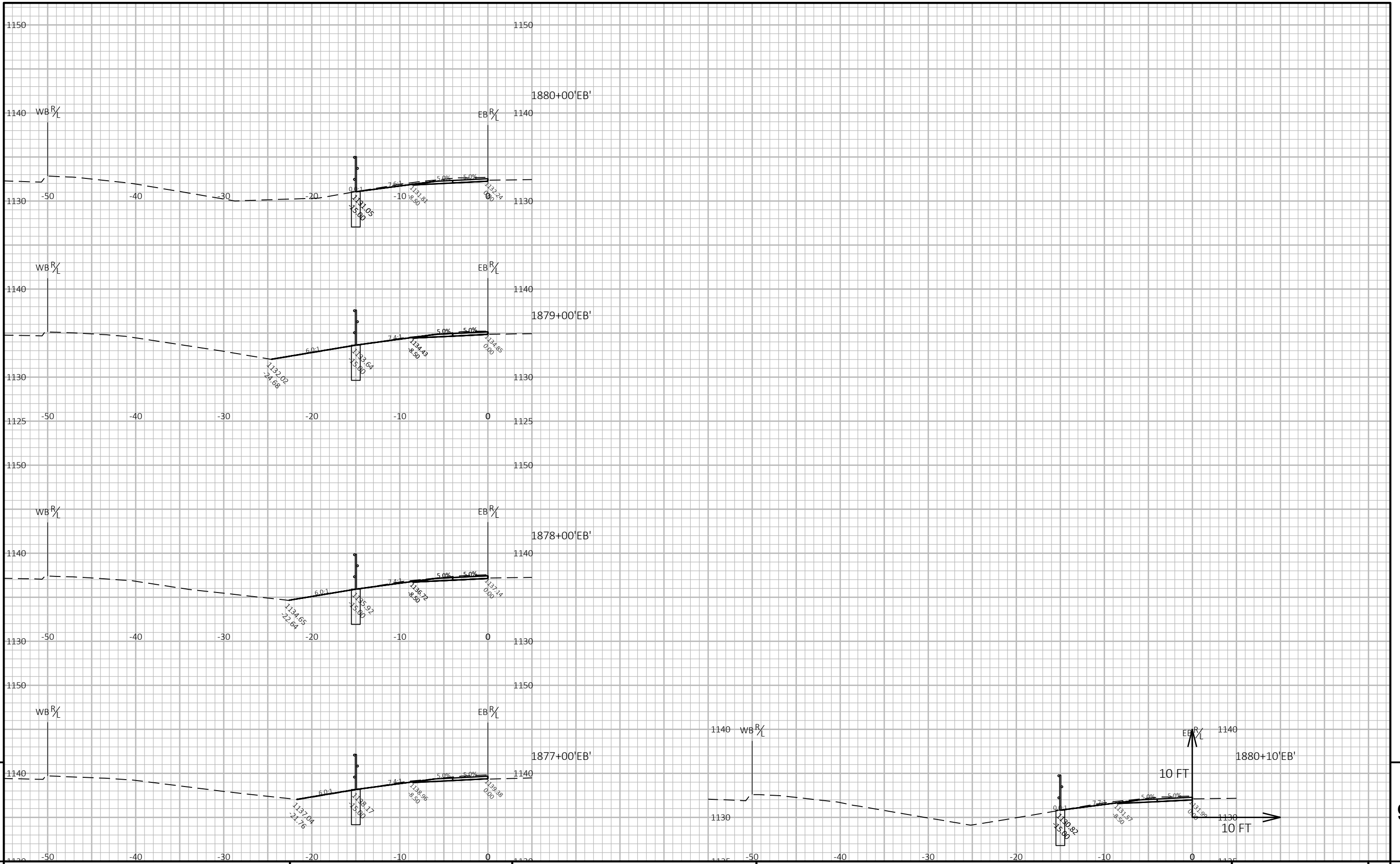
HWY: USH 18

COUNTY: IOWA & DANE

CROSS SECTIONS: CROSS SECTIONS - DANE COUNTY

SHEET

E

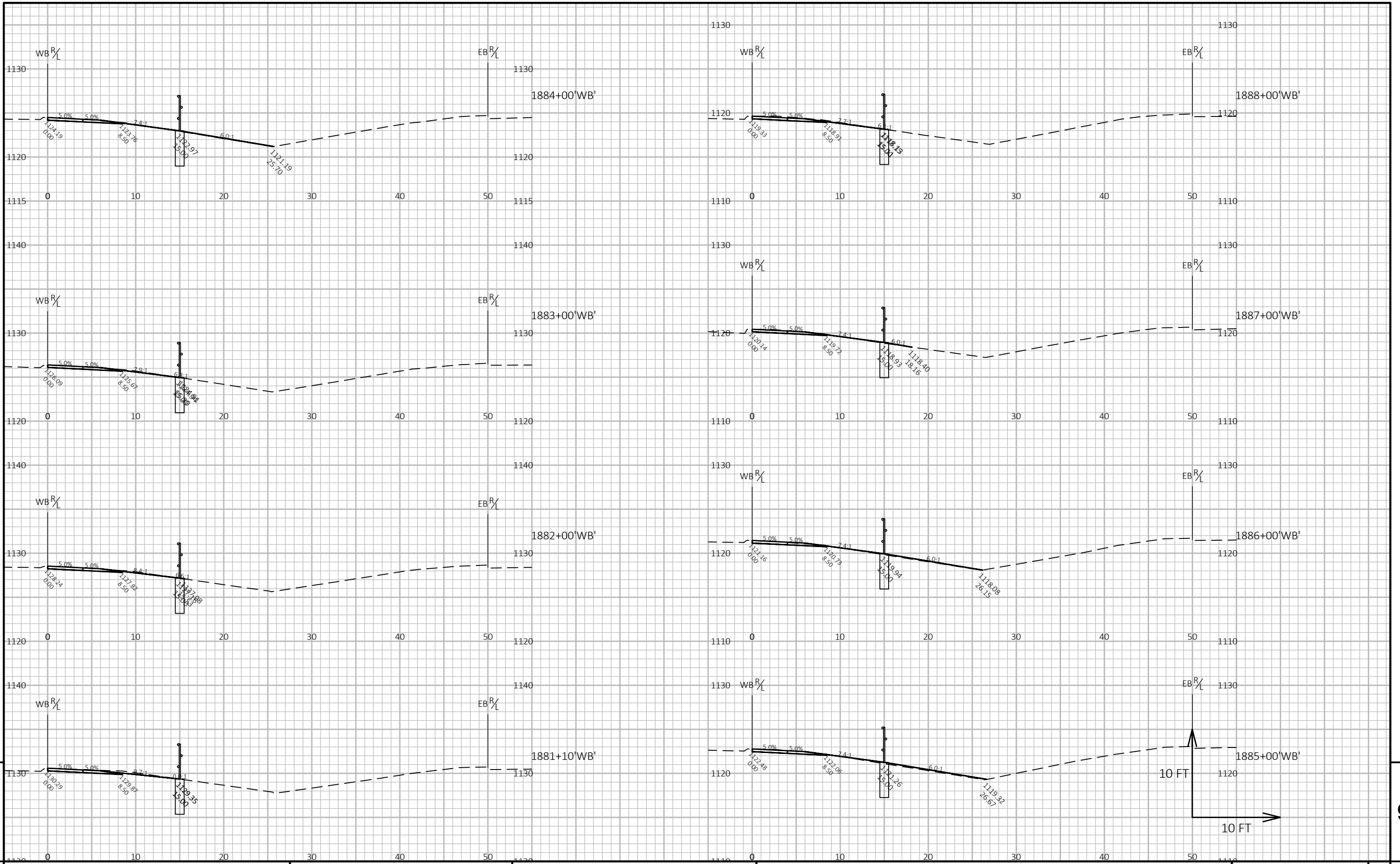


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PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - DANE COUNTY SHEET E

FILE NAME: P:\2018 PROJECTS\5018041 - WISDOT SWR US 18_151\CIVIL3D\SHEETSPLAN\1204-05-76\090202-XS (DANE COUNTY).DWG PLOT DATE: 4/15/2020 10:52 AM PLOT BY: BRETT PETERSON PLOT NAME: PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

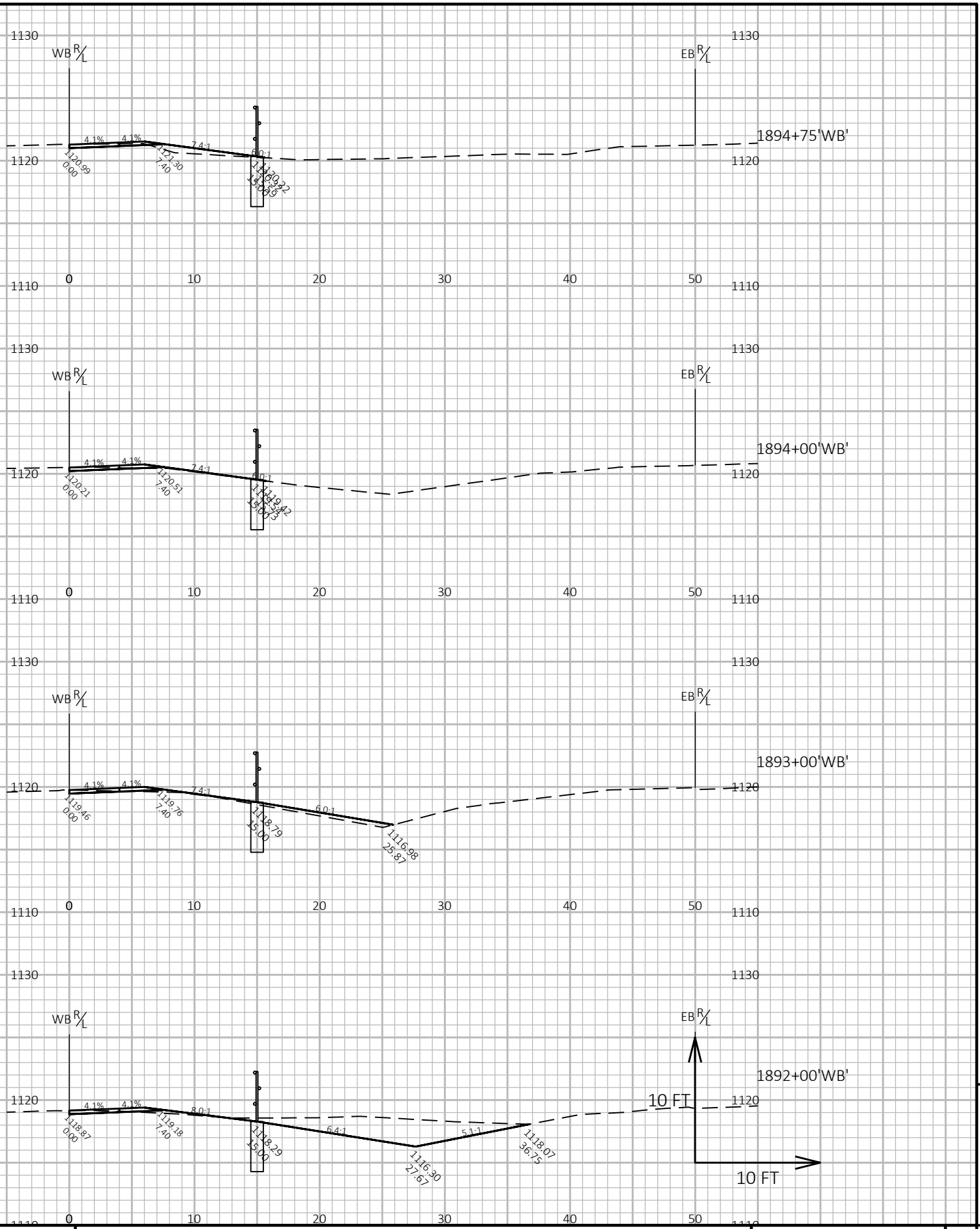
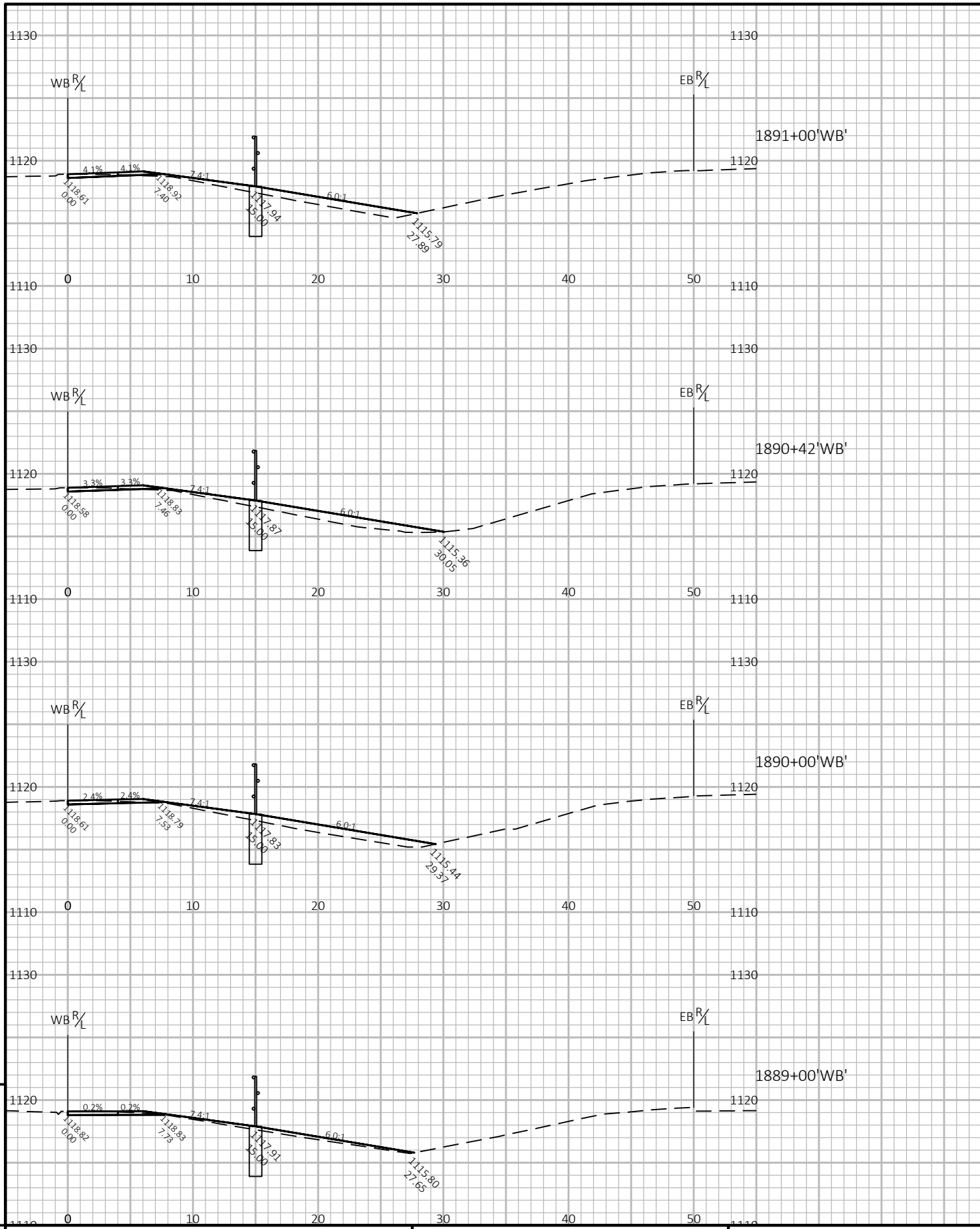


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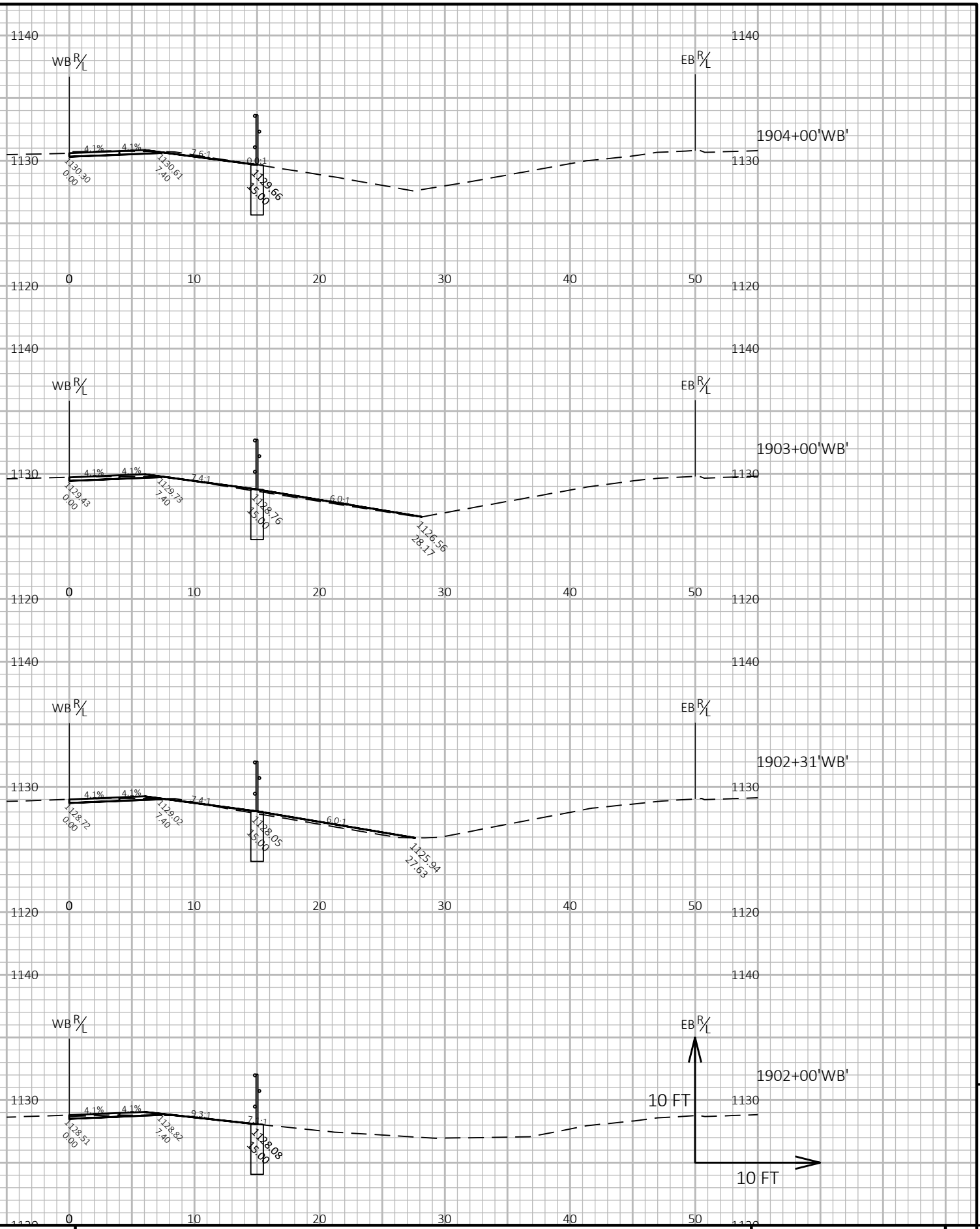
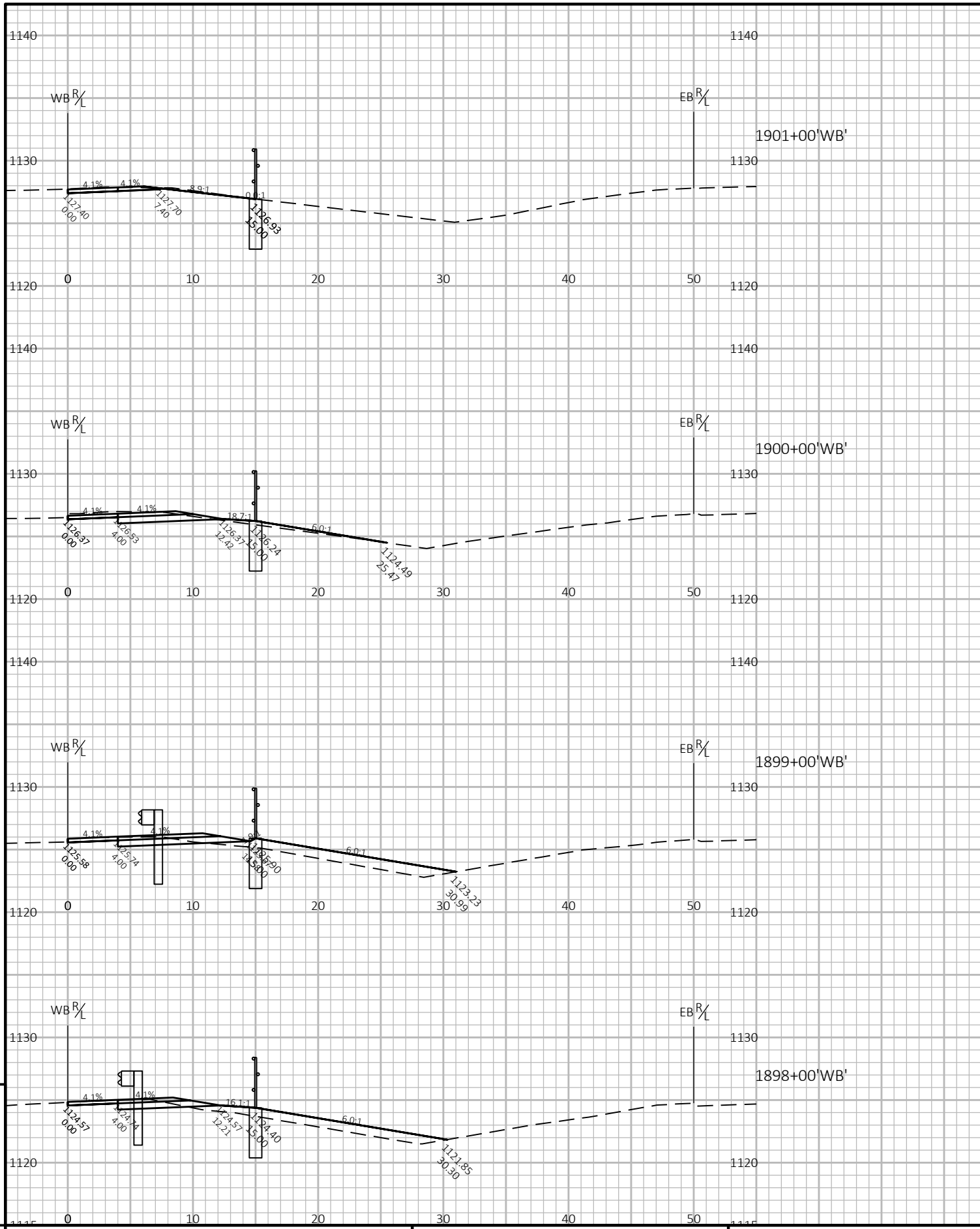
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PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - DANE COUNTY SHEET E

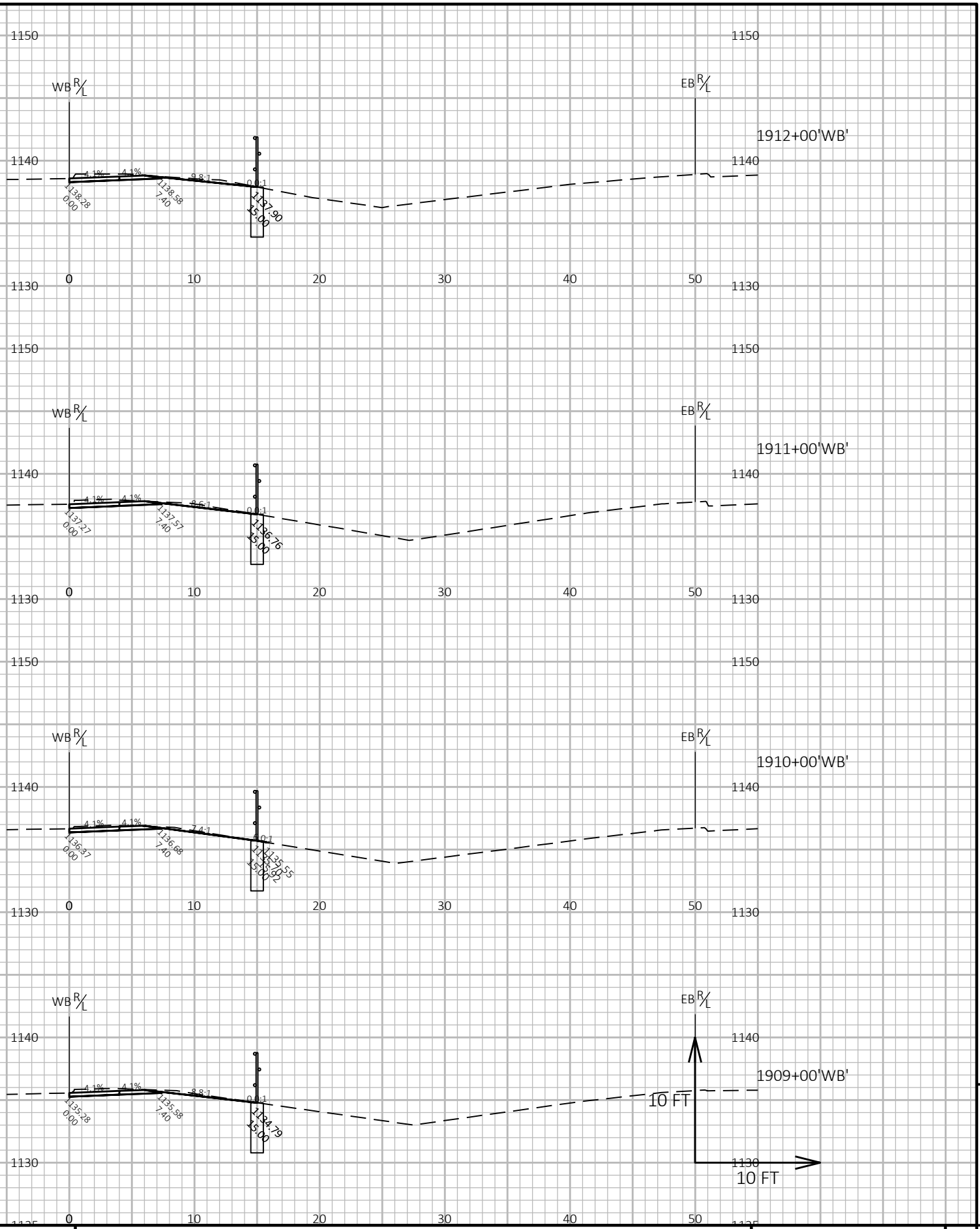
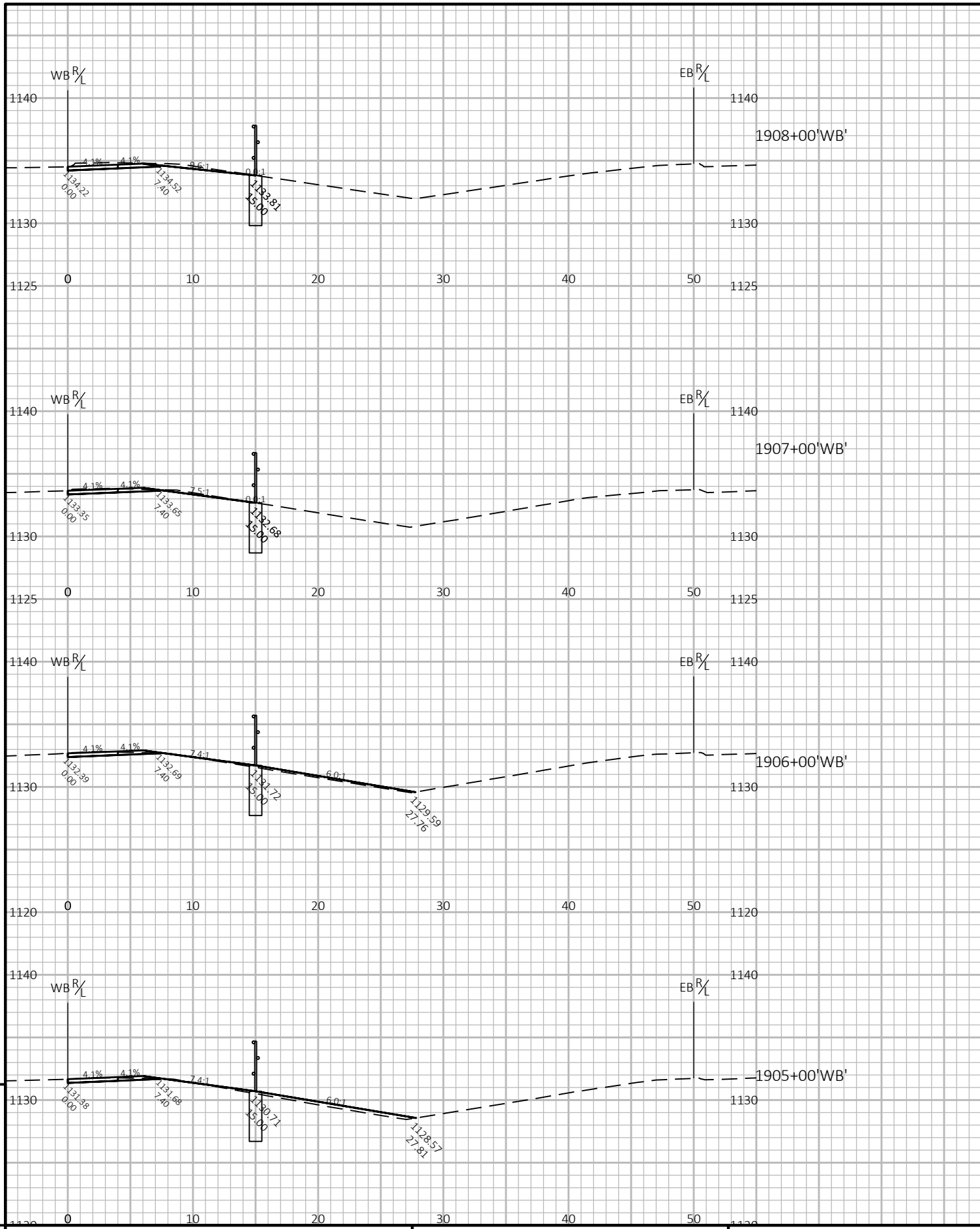
FILE NAME: P:\2018 PROJECTS\5018041 - WISDOT SWR US 18_151\CIVIL3D\SHEETSPLAN\1204-05-76\090202-XS (DANE COUNTY).DWG PLOT DATE: 4/15/2020 10:53 AM PLOT BY: BRETT PETERSON PLOT NAME: PLOT SCALE: 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49



PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - DANE COUNTY SHEET E



PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: CROSS SECTIONS - DANE COUNTY SHEET E



PROJECT NO: 1204-05-76

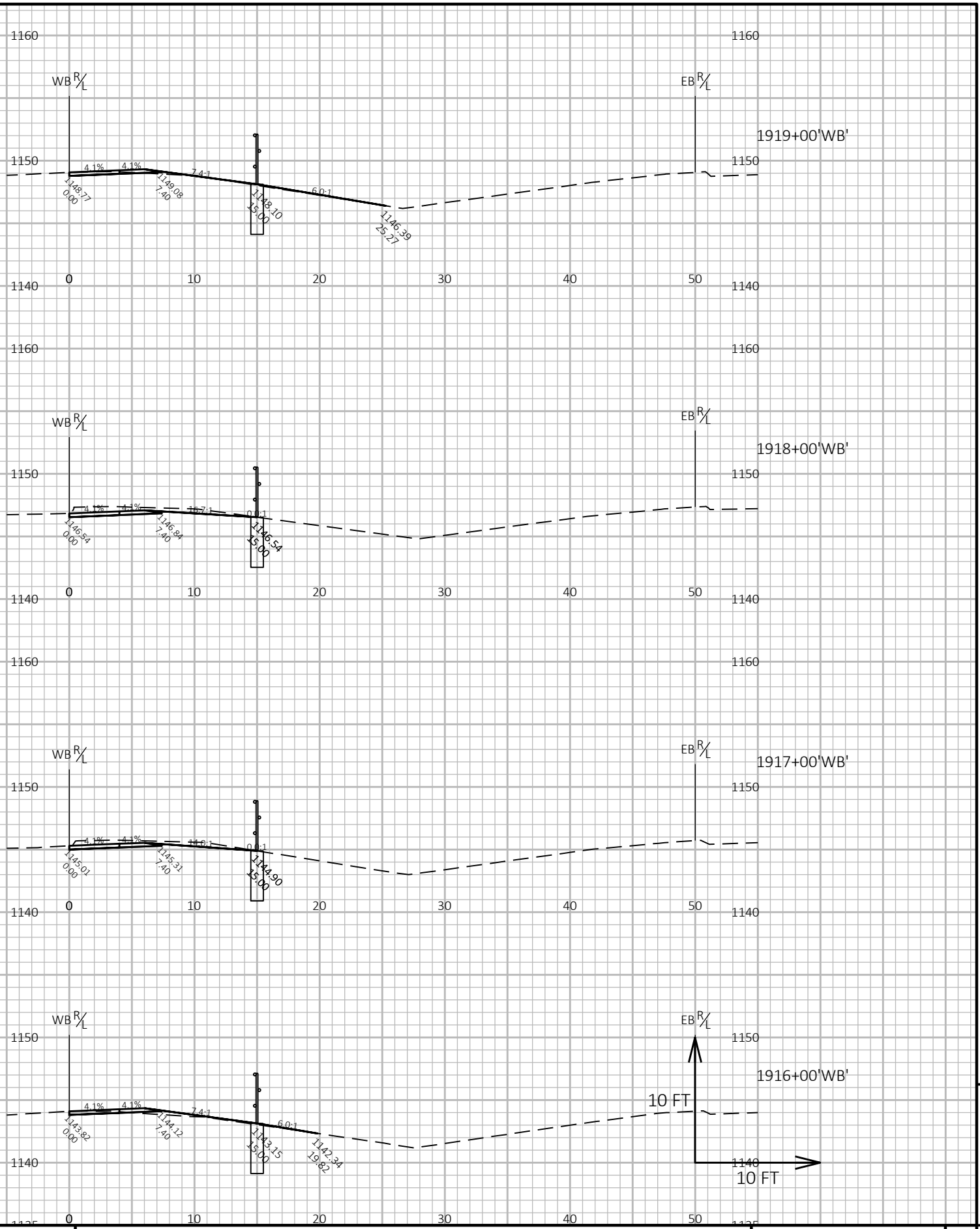
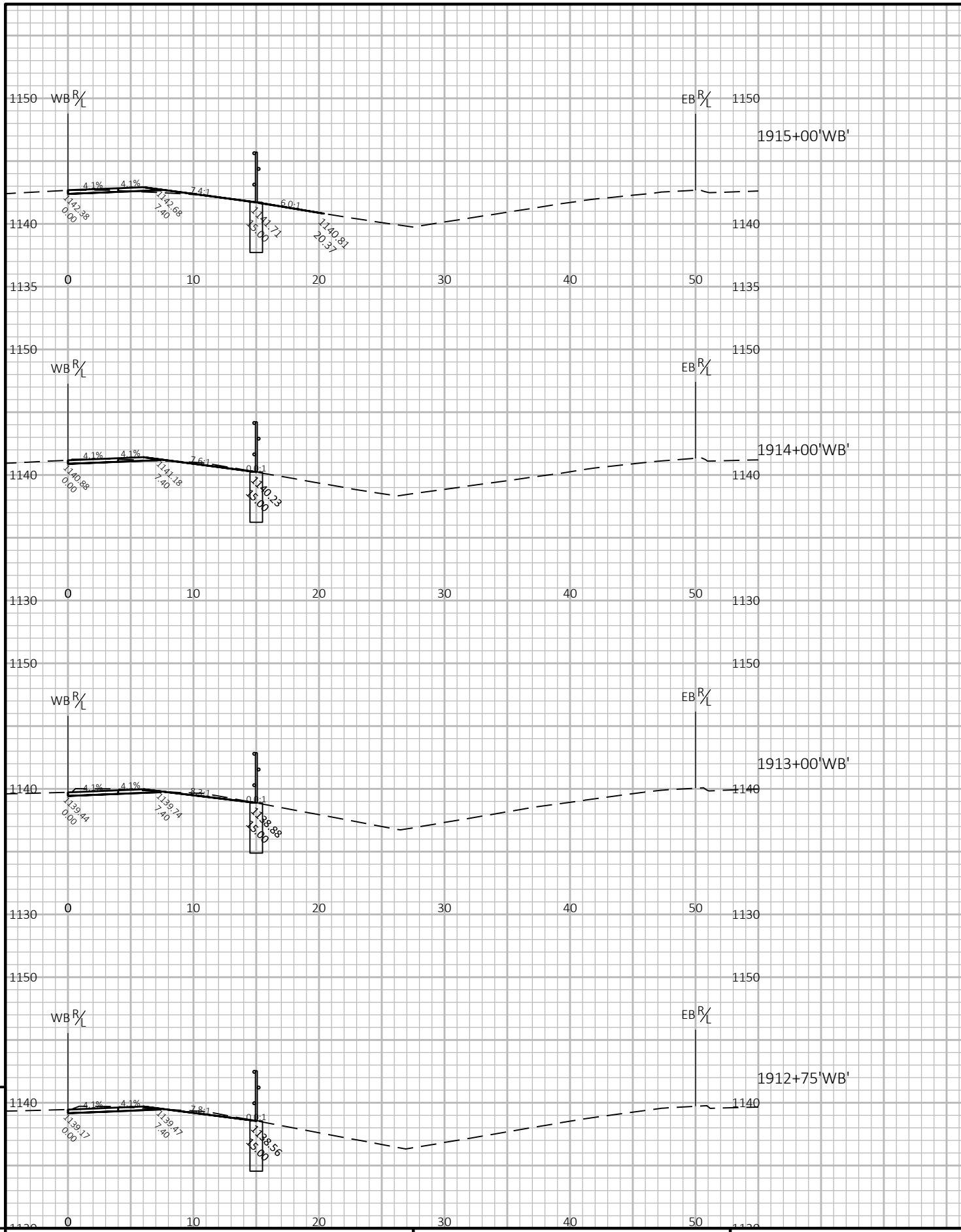
HWY: USH 18

COUNTY: IOWA & DANE

CROSS SECTIONS: CROSS SECTIONS - DANE COUNTY

SHEET

E



PROJECT NO: 1204-05-76

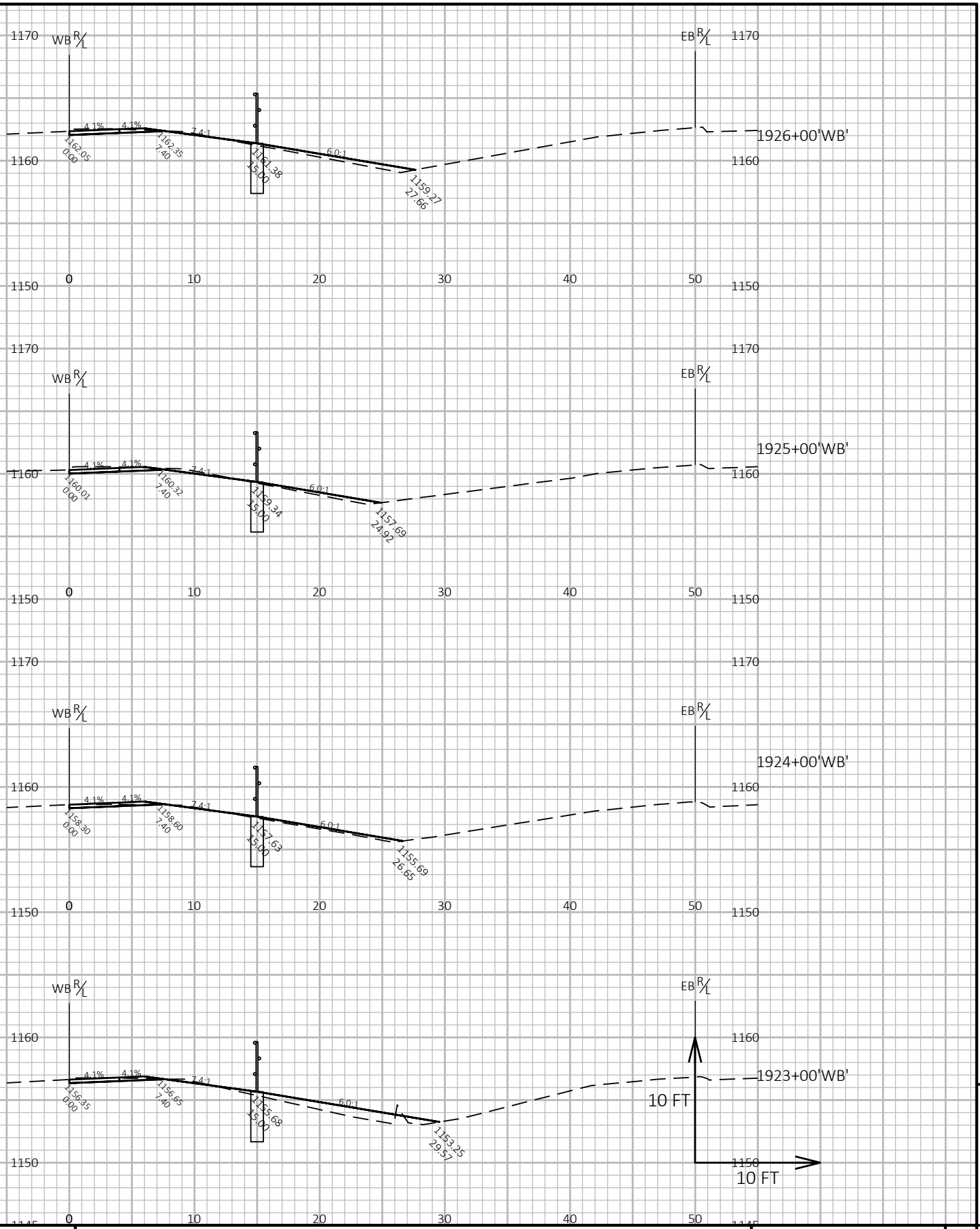
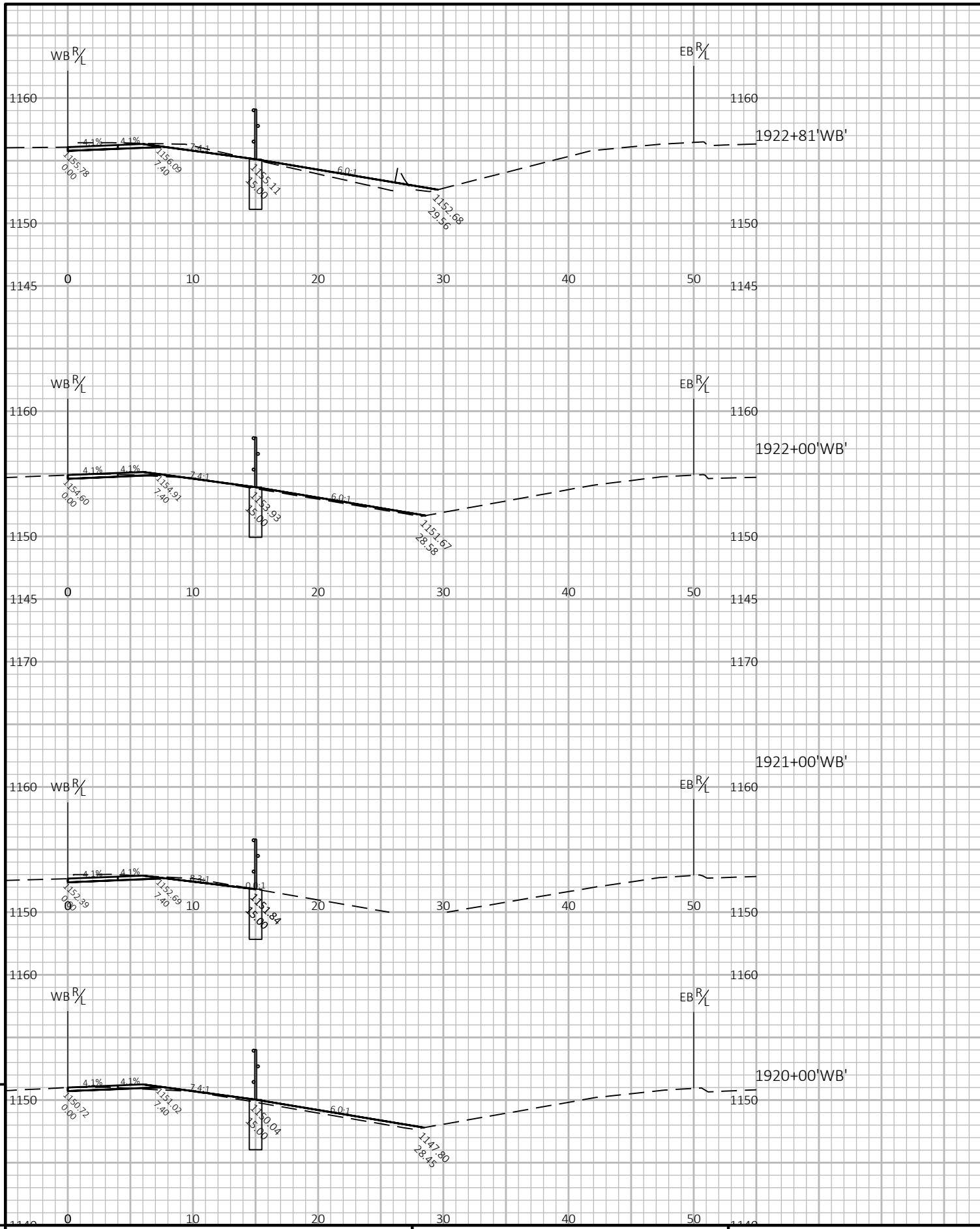
HWY: USH 18

COUNTY: IOWA & DANE

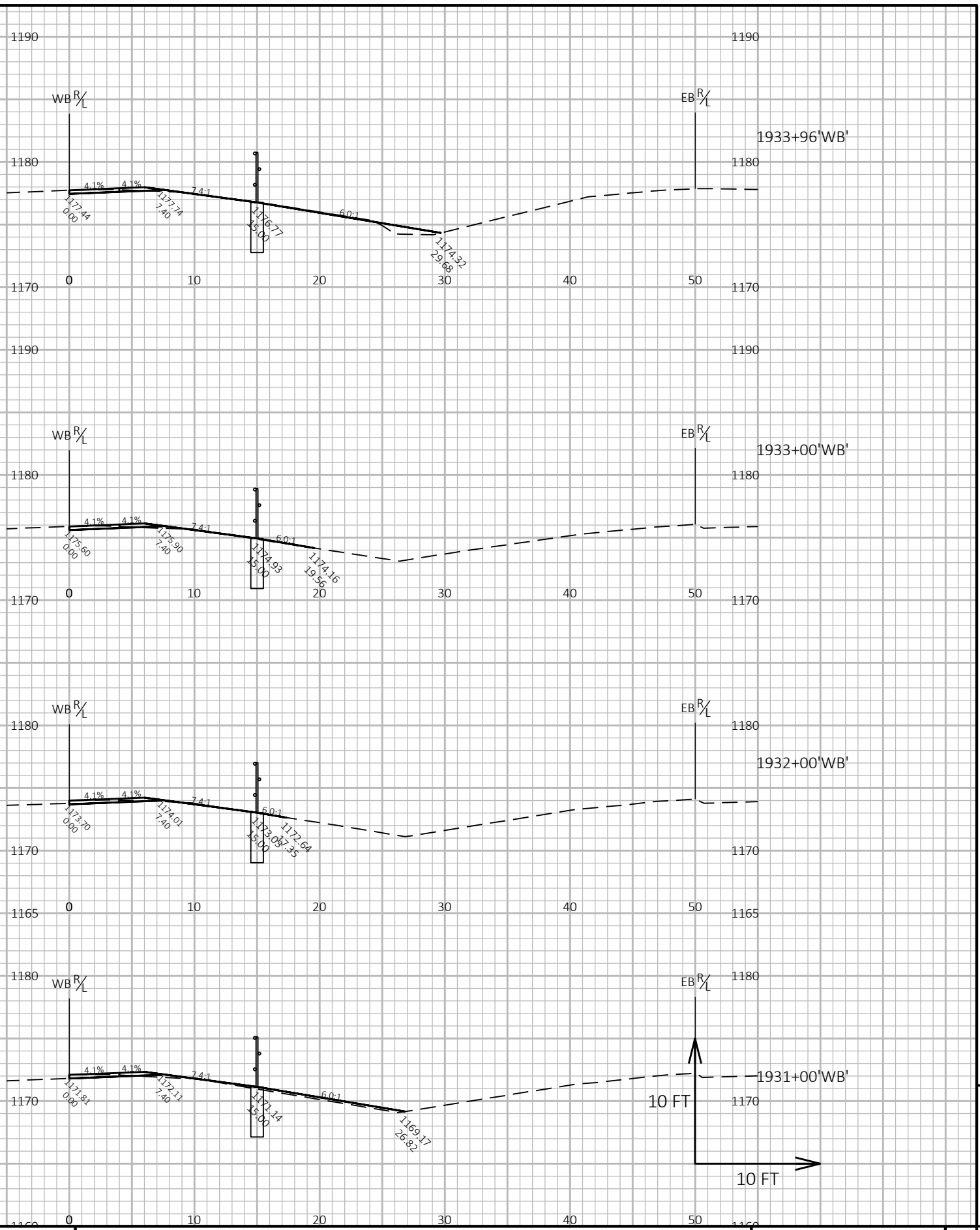
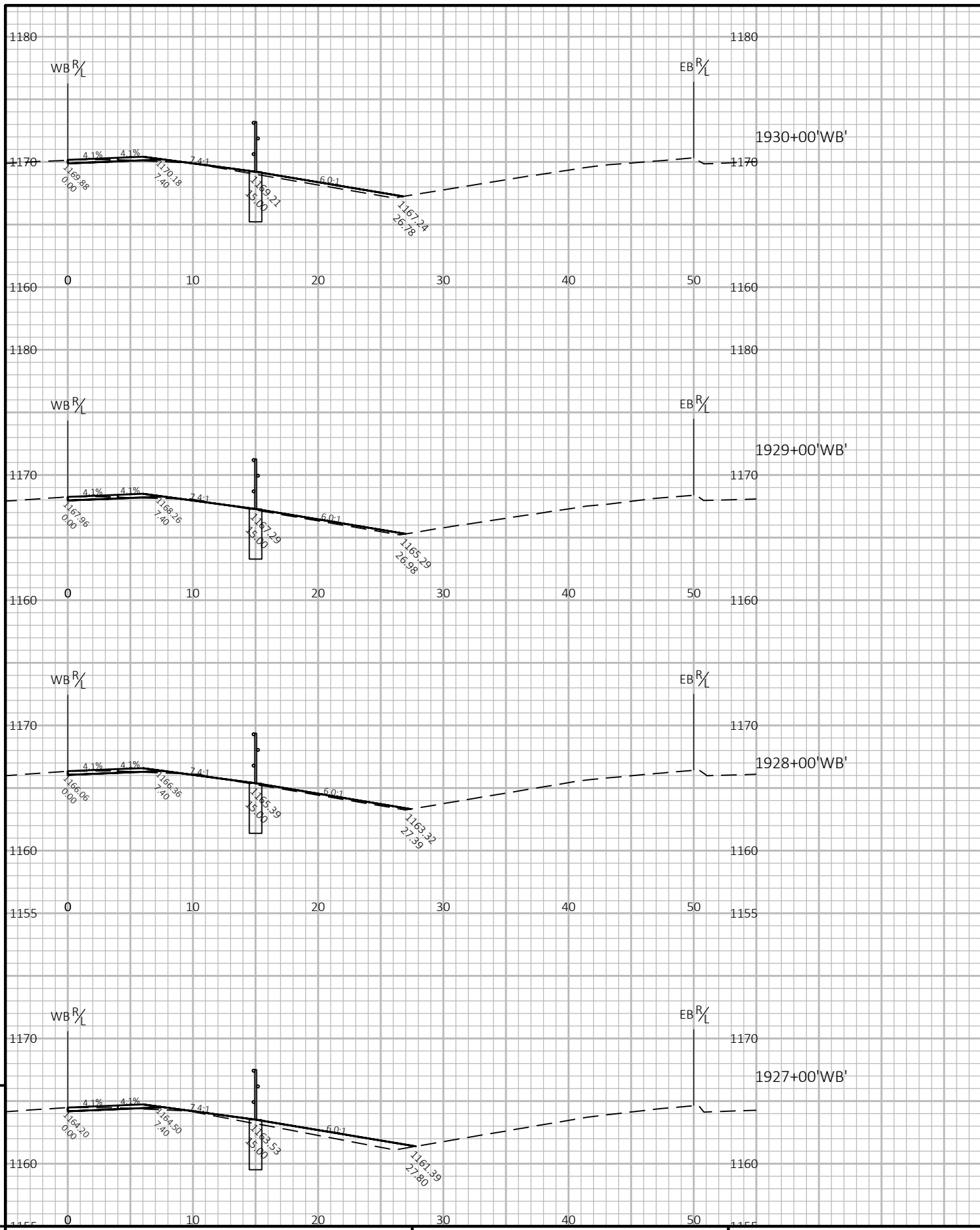
CROSS SECTIONS: CROSS SECTIONS - DANE COUNTY

SHEET

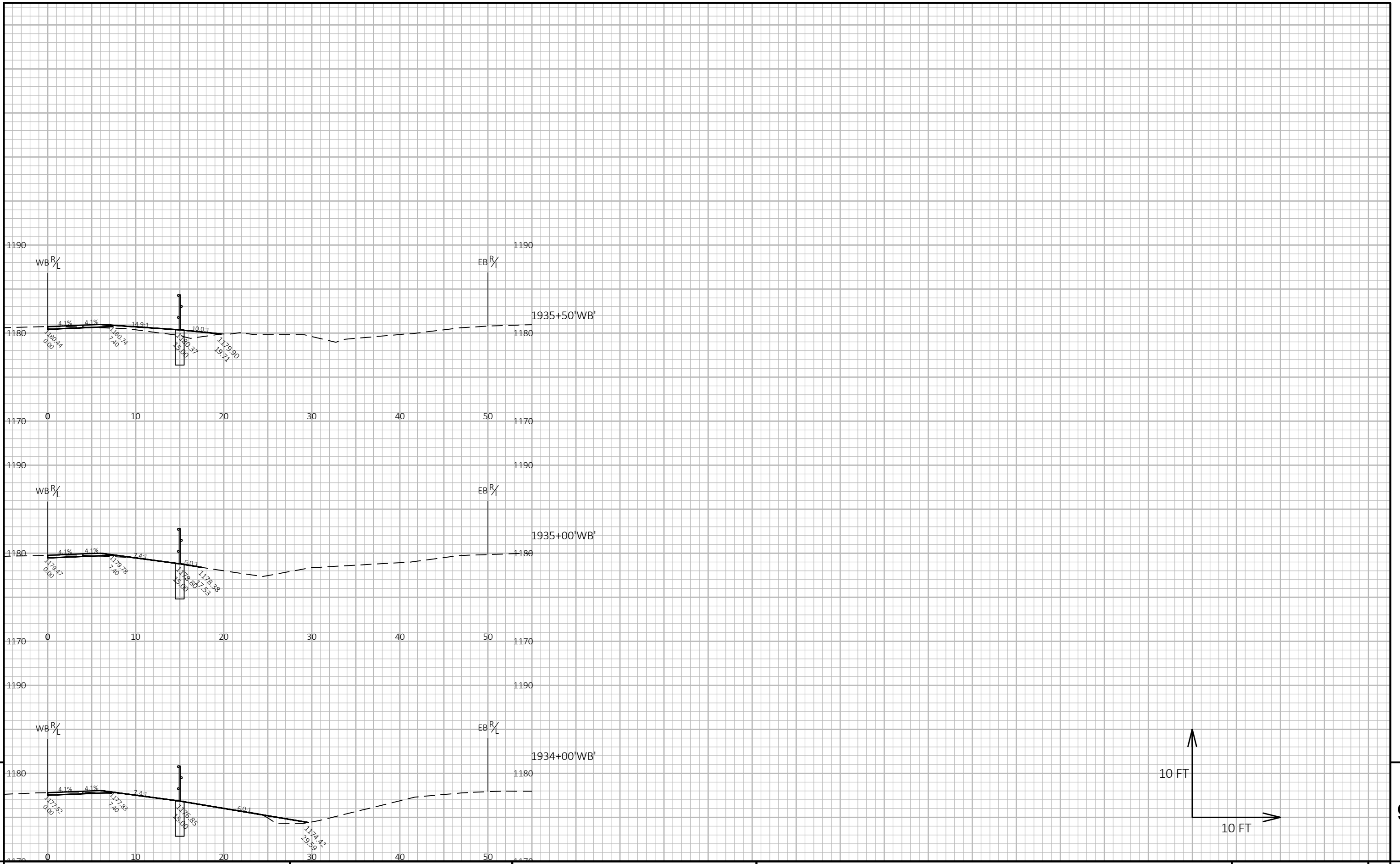
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PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: USH 18 - DANE COUNTY SHEET E



PROJECT NO: 1204-05-76 HWY: USH 18 COUNTY: IOWA & DANE CROSS SECTIONS: USH 18 - DANE COUNTY SHEET E



PROJECT NO: 1204-05-76

HWY: USH 18

COUNTY: IOWA & DANE

CROSS SECTIONS: USH 18 - DANE COUNTY

SHEET

E

Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

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