

PROJECT ID: 1060-34-76
WITH:

COUNTY: MILWAUKEE

ORDER OF SHEETS

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

TOTAL SHEETS =



DESIGN DESIGNATION IH 41

A.A.D.T. (2015)	=	144,000
A.A.D.T. (2035)	=	180,630
D.H.V.	=	
D.D.	=	49.4% NB/50.6% SB
T.	=	11.6%
DESIGN SPEED	=	60 MPH
ESALS	=	31,835,300

CONVENTIONAL SYMBOLS

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

PROFILE	
GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

ZOO IC, NORTH LEG PREP WORK

SWAN BLVD TO NORTH AVE

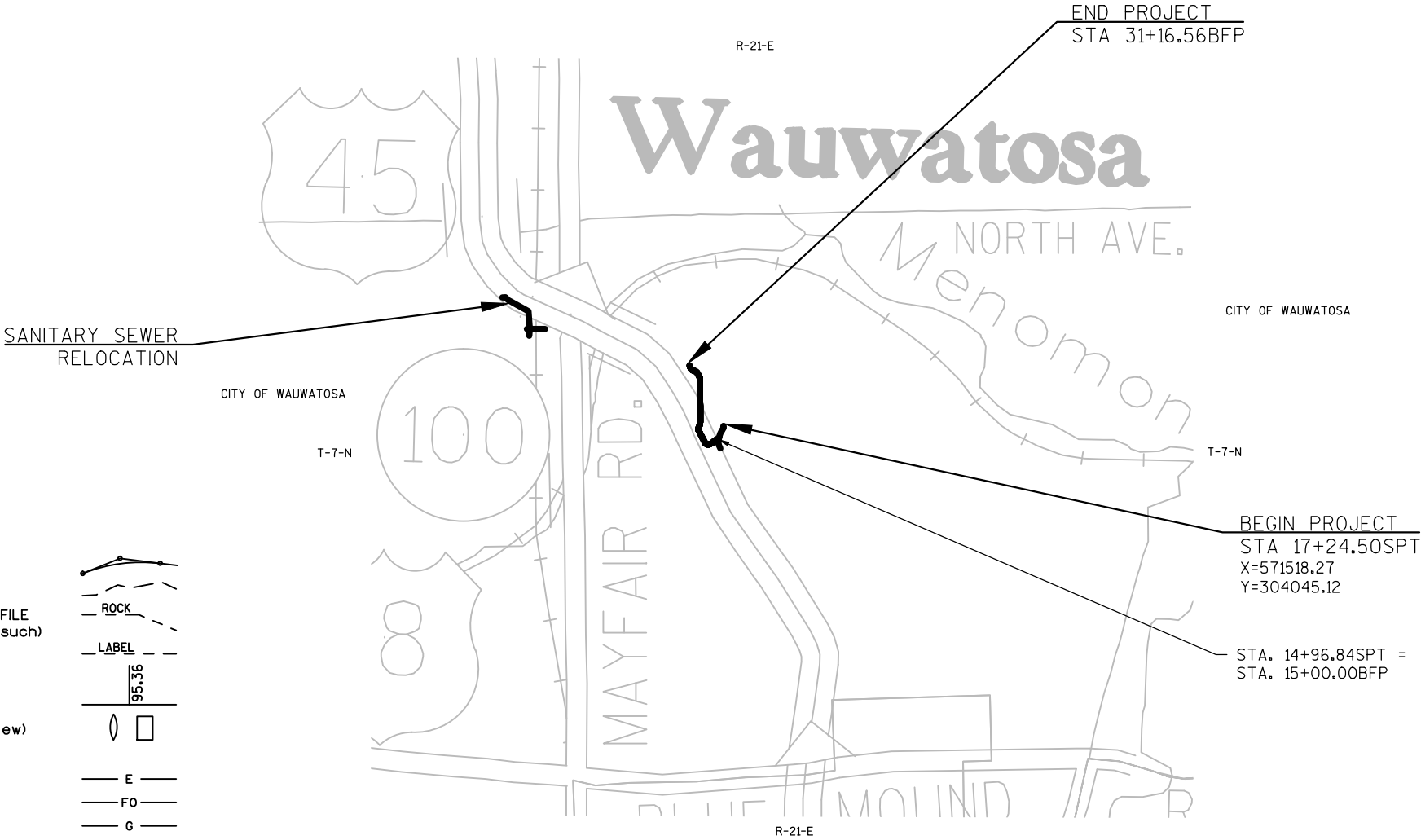
USH 45

MILWAUKEE COUNTY

STATE PROJECT NUMBER
1060-34-76

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1060-34-76		

APPROVED FOR DESIGN OF
UTILITY ADJUSTMENTS
NOVEMBER 8, 2019



LAYOUT
SCALE 0 0.5 MI.
TOTAL NET LENGTH OF CENTERLINE = 0.000 MI.

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, MILWAUKEE COUNTY, NAD83 (2007), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.
ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD88 (2007)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
PREPARED BY	
Surveyor	FORWARD 45
Designer	WISDOT
Project Manager	CHRIS A. ZACHARIAS, P.E.
Regional Examiner	
Regional Supervisor	WILLIAM S. MOHR, P.E.
APPROVED FOR THE DEPARTMENT	
DATE:	(Signature)

E

STANDARD ABBREVIATIONS

AEW	APRON ENDWALL	PCC	POINT OF COMPOUND CURVE
AGG	AGGREGATE	PE	PRIVATE ENTRANCE
BAD	BASE AGGREGATE DENSE	PI	POINT OF INTERSECTION
BM	BENCHMARK	PLE	PERMANENT LIMITED EASEMENT
C&G	CURB AND GUTTER	PT	POINT OF TANGENT
CL OR C _L	CENTER LINE OR CONSTRUCTION LINE	R	RADIUS OF CURVE
CMCP	CULVERT PIPE CORRUGATED METAL	R/L	REFERENCE LINE
CONC	CONCRETE	R/W	RIGHT OF WAY
CP	CULVERT PIPE	RC	REVERSE CROWN
CPRC	CULVERT PIPE REINFORCED CONCRETE	RCAEW	APRON END WALL FOR CULVERT PIPE
CPRCHE	CULVERT PIPE REINFORCED CONCRETE		REINFORCED CONCRETE
	HORIZONTAL ELLIPTICAL	REQD	REQUIRED
CSD	CONCRETE SURFACE DRAIN	RHF	RIGHT HAND FORWARD
CY	CUBIC YARD	RO	RUN OFF LENGTH
D	DEGREE OF CURVE	RRSP	RAILROAD SPIKE
Δ	DELTA	RT	RIGHT
DISCH	DISCHARGE	SLV	SALVAGED
FE	FIELD ENTRANCE	SB	SOUTHBOUND
HMA	HOT MIX ASPHALTIC	SDD	STANDARD DETAIL DRAWING
INV	INVERT	SE	SUPER ELEVATION
L	LENGTH OF CURVE	SF	SQUARE FOOT
LHF	LEFT HAND FORWARD	STA	STATION
LT	LEFT	SY	SQUARE YARD
MIN	MINIMUM	T	TANGENT LENGTH
M/L	MAINLINE	TLE	TEMPORARY LIMITED EASEMENT
NB	NORTHBOUND	VCL	VERTICAL CURVE LENGTH
NC	NORMAL CROWN	VPC	POINT VERTICAL CURVE
PAVT	PAVEMENT	VPI	POINT OF VERTICAL INTERSECTION
PC	POINT OF CURVE	VPT	POINT OF VERTICAL TANGENT

ORDER OF SECTION 2 DETAIL SHEETS

- INDEX
- CONTACTS
- GENERAL NOTES
- PROJECT OVERVIEW
- TYPICAL SECTIONS
- CONSTRUCTION DETAILS
- REMOVAL PLANS
- EROSION CONTROL
- SANITARY SEWER PLANS
- PERMANENT SIGNING
- PAVEMENT MARKING
- TRAFFIC CONTROL
- ALIGNMENT AND CONTROL

UTILITY CONTACTS

AT&T LOCAL NETWORK (TCA)
MS. JENNIFER NAVARRO
NORTHWIND TECHNICAL SERVICES, LLC
6070 N. FLINT ROAD
GLENDALE, WI 53209
PHONE: (414) 459-3564
j.navarro@northwindtech.com

AT&T WISCONSIN
MR. JAY BULANEK
2005 PEWAUKEE RD
WAUKESHA, WISCONSIN 53188
PHONE: (262) 896-7669
CELL: (414) 491-2855
jb5171@att.com

CHARTER COMMUNICATIONS
BEAU ABUYA
1320 N. MARTIN LUTHER KING JR. DRIVE
MILWAUKEE, WI 53212
PHONE: (414) 908-1343
CELL: (414) 758-9241
beau.abuya@charter.com

MILWAUKEE COUNTY – ELECTRIC, SEWER, WATER
MR. KARL STAVE
633 W. WISCONSIN AVE., SUITE 1000
MILWAUKEE, WI 53203
PHONE: (414) 278-4863
karl.stave@milwcnty.com

MILWAUKEE METRO SEWERAGE DIST.
TIM KACZKOWSKI
260 W SEEBOTH STREET
MILWAUKEE, WI 53204
PHONE: (414) 225-2241
CELL: (414) 617-1429
tkaczkowski@mmsd.com

SPRINT COMMUNICATIONS
JASON JARVIS
OSP ENGINEER II
7459 WEST 79TH STREET
BRIDGEVIEW, IL 60455
PHONE: (219) 433-4091
jason.m.jarvis@sprint.com

WAUWATOSA, CITY OF – LIGHTING
MR. RANDY MICHELZ
1100 W. WALNUT ROAD
WAUWATOSA, WI 53226
PHONE: (414) 479-8429
CELL: (414) 248-0987
rmichelz@wauwatosa.net

WAUWATOSA, CITY OF – SEWER
MR. MIKE MAKI
7725 W. NORTH AVENUE
WAUWATOSA, WI 53213
PHONE: (414) 479-8991
mmaki@wauwatosa.net

WAUWATOSA WATER UTILITY
ADAM FLORIN
WATER SUPERINTENDENT
11100 W. WALNUT ROAD
WAUWATOSA, WI 53226
PHONE: 414-471-8480 Ext. 5915
aflorin@wauwatosa.net

WE ENERGIES - ELECTRIC
NICHOLAS WELCH
500 S. 116TH STREET
WEST ALLIS, WI 53214
PHONE: (414) 944-5765
CELL: (414) 791-0406
nicholas.welch@we-energies.com

WISDOT LIGHTING
MR. ERIC PEREA
141 NW BARSTOW
WAUKESHA, WI 53187
PHONE: (262) 574-5422
CELL: (414) 750-0936
eric.perea@dot.wi.gov

WISDOT COMMUNICATIONS
MR. JEFF MADSON
STE. 300
433 W. ST. PAUL AVE.
MILWAUKEE, WI 53203-3007
(414) 225-3723
jeffrey.madson@dot.wi.gov

TO OBTAIN LOCATION OF PARTICIPANTS’ UNDERGOURND
FACILITIES BEFORE YOU DIG IN WISCONSIN

WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK
DAYS NOTICE BEFORE YOU EXCAVATE

DIGGERS



HOTLINE

Dial



or (800) 242-8511

www.DiggersHotline.com

STATE AGENCIES

WISCONSIN DEPARTMENT OF
NATURAL RESOURCES
KRISTINA BETZOLD
DNR SERVICE CENTER
2300 N. MARTIN LUTHER KING JR.
MILWAUKEE WI 53212
PHONE: (414) 507-4946
kristina.betzold@Wisconsin.gov

WISCONSIN DEPARTMENT OF TRANSPORTATION
DOBRA PAYANT - ENVIRONMENTAL ANALYST AND
REVIEW SPECIALIST
141 NW BARSTOW STREET
WAUKESHA, WI 53187-0798
CELL: (414) 750-2677
dobra.payant@dot.wi.gov

WISCONSIN DEPARTMENT OF
TRANSPORTATION
MR. CHRIS ZACHARIAS, PROJECT MANAGER
141 NW BARSTOW ST.
WAUKESHA, WI 53187-0798
(262) 548-6716
chris.zacharias@dot.wi.gov

WISCONSIN DEPARTMENT OF
TRANSPORTATION
MR. GREG BERRY – UTILITY COORDINATOR
141 NW BARSTOW STREET
WAUKESHA, WI 53187-0798
(414) 750-7828
gregory.berry@dot.wi.gov

OTHER AGENCIES

WAUWATOSA, CITY OF – CITY ENGINEER
MR. WILLIAM WEHRLEY
7725 W NORTH AVE
WAUWATOSA, WI 53213
(414) 479-8929
wwehrley@wauwatosa.net

MILWAUKEE COUNTY DPW
DANIEL MURPHY, HIGHWAY MAINTENANCE MANAGER
10320 W. WATERTOWN PLANK ROAD
MILWAUKEE, WI 53226
PHONE: (414) 257-5942
daniel.murphy@milwcnty.com

MILWAUKEE METROPOLITAN SEWERAGE DISTRICT
MS. MICKI KLAPPA-SULLIVAN
260 W SEEBOTH STREET
MILWAUKEE, WI 53204
PHONE: (414) 225-2178
mklappasullivan@mmsd.com

MILWAUKEE COUNTY PARKS DEPARTMENT – MANAGER
OF PLANNING & DEVELOPMENT
MS. SARAH TOOMSEN, PLA, LEED AP
9480 W WATERTOWN PLANK RD
WAUWATOSA, WI 53226
DIRECT: (414) 257-7389
MOBILE: (414)-380-2052
sarah.toomsen@milwaukeecountywi.gov

UNION PACIFIC RAILROAD COMPANY
MR. JOHN VENICE
101 N. WACKER DRIVE, SUITE 1920
CHICAGO, IL 60606
PHONE: (312) 777-2043
jvenice@up.com

MILWAUKEE COUNTY TRANSIT SYSTEM
-ROUTES
MS. MELANIE FLYNN
1942 N. 17TH STREET
MILWAUKEE, WI 53205
(414) 343-1764
mflynn@mcts.org

MILWAUKEE COUNTY TRANSIT SYSTEM
-BUS STOPS
MR. ANDY TILLMAN
1942 N. 17TH ST.
MILWAUKEE, WI 53205
PHONE: (414) 343-1728
atillman@mcts.org

SOUTHEASTERN WISONSIN REGIONAL PLANNING
COMMISSION
MR. ROB MERRY
MR. W239 N1812 ROCKWOOD DRIVE
P.O. BOX 1607
WAUKESHA, WI 53187-1607
PHONE: (262) 953-4289
CELL: (920) 912-1036
rmerry@sewerpc.org

GENERAL NOTES

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

ANY REINFORCEMENT LOCATED IN EXISTING CONCRETE PAVEMENT SHALL BE CONSIDERED INCIDENTAL TO THE REMOVING PAVEMENT ITEM, AND NO ADDITIONAL COMPENSATION WILL BE GRANTED.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATION AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

PROVIDE A TYPICAL SIDEWALK CROSS SLOPE OF 1.5% WITH A CONSTRUCTION TOLERANCE OF +/- 0.5%.

CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL SPECIAL WHERE REQUIRED. TOPSOIL SPECIAL SHALL BE REPLACED WITH 6-INCH TYPICAL DEPTH THROUGHOUT THE PROJECT.

REMOVAL OF EROSION CONTROL DEVICES IS INCLUDED IN THE COST OF THEIR RESPECTIVE BID ITEMS.

RE-TOPSOIL GRADED AREAS, AS DESIGNATED BY THE ENGINEER, IMMEDIATELY AFTER GRADING IS COMPLETED WITHIN THOSE AREAS. SEED, FERTILIZE, AND EROSION MAT TOP-SOIL SPECIAL AREAS, AS DESIGNATED BY THE ENGINEER, WITHIN FIVE (5) CALENDAR DAYS AFTER PLACEMENT OF TOPSOIL SPECIAL. GRADED AREAS SHOULD BE SEEDED WITHIN (14) CALENDAR DAYS.

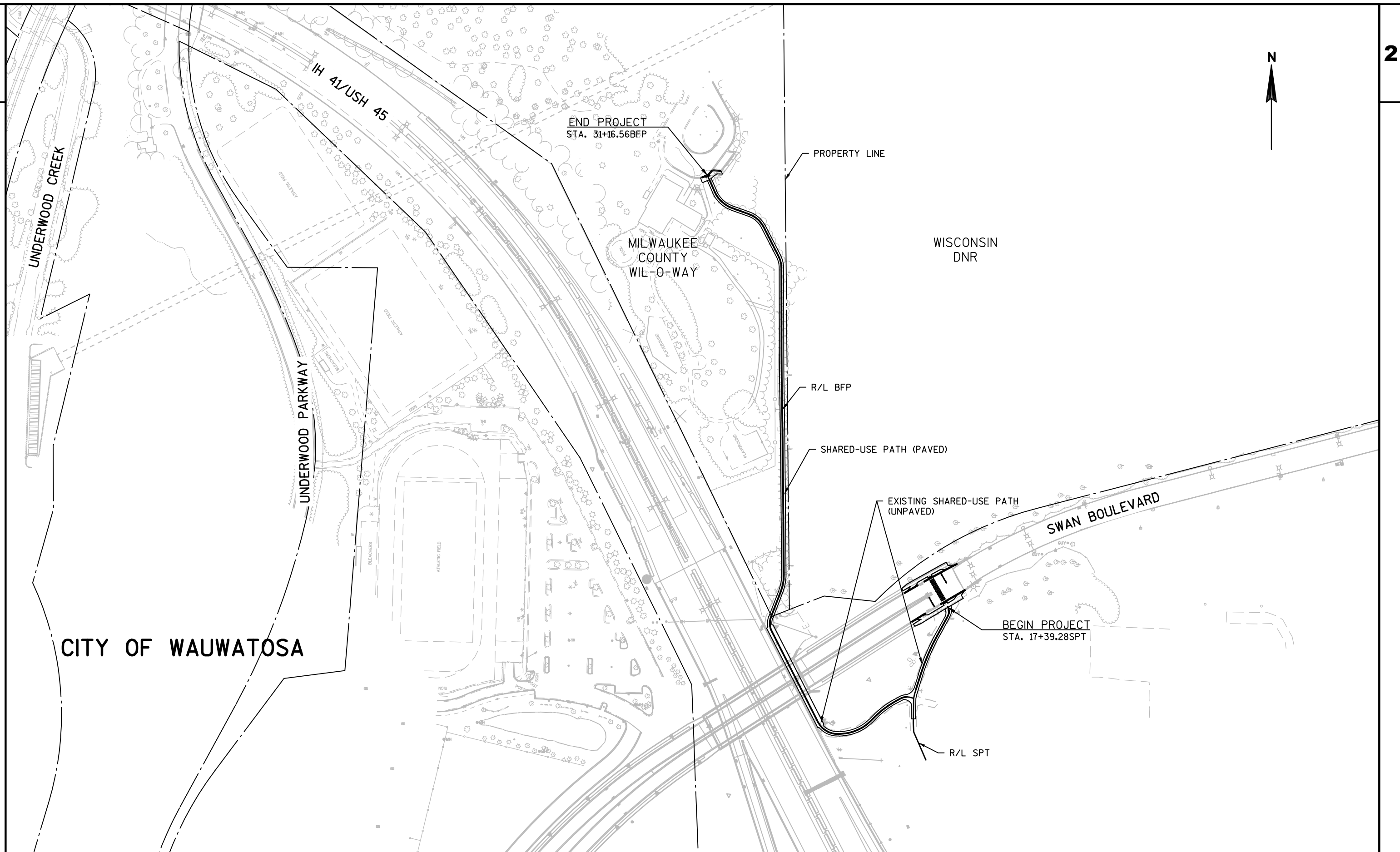
VERIFY EXISTING PAVEMENT ELEVATIONS AT ALL TIE-INS TO EXISTING PAVEMENT PRIOR TO CONSTRUCTION. IF A DISCREPANCY IS FOUND BETWEEN PROPOSED PLAN ELEVATIONS AND THE EXISTING PAVEMENT ELEVATIONS, CONTRACTOR IS TO NOTIFY THE ENGINEER.

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

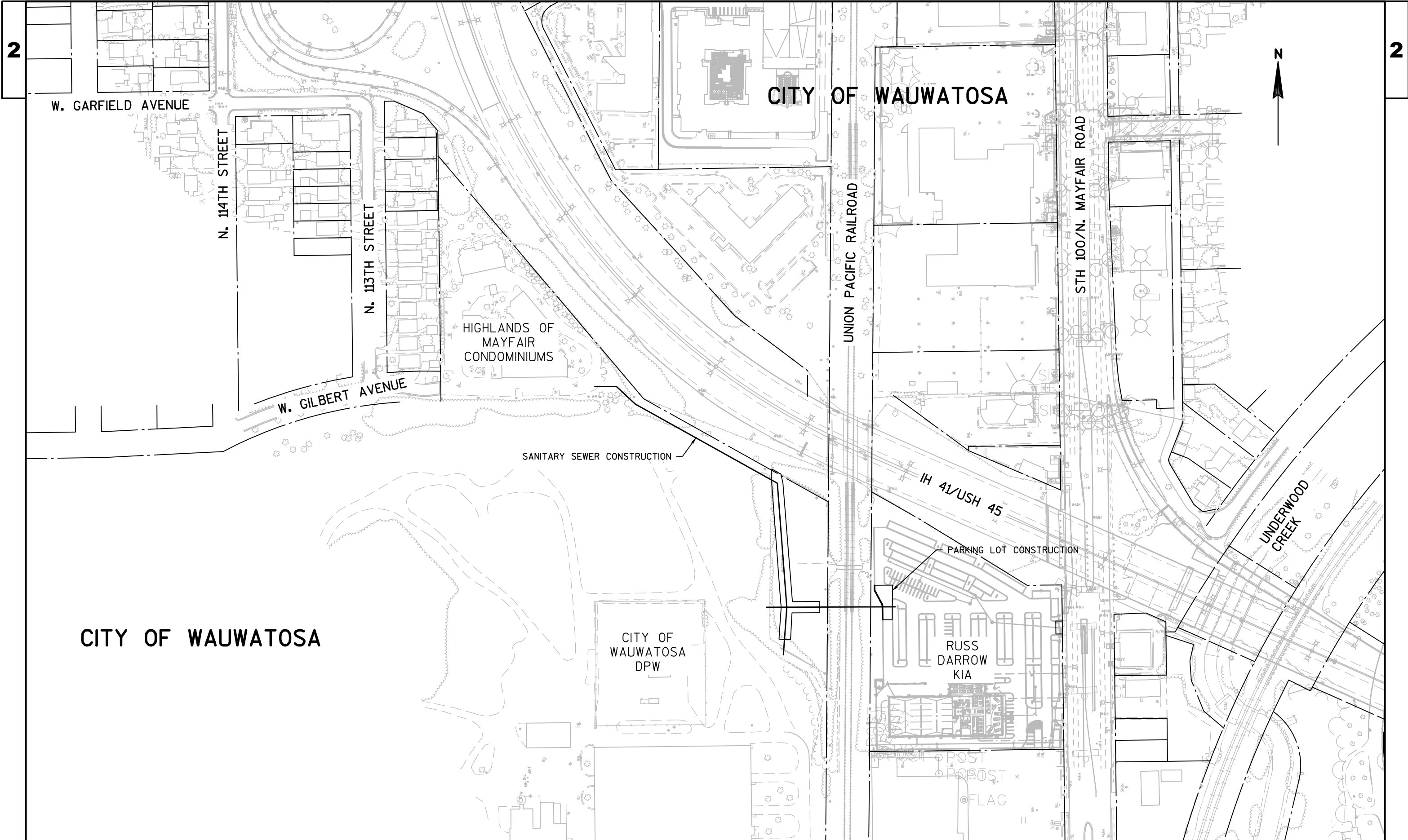
INLET PROTECTION IS REQUIRED AT ALL INLETS AS PER DETAIL OR AS DIRECTED BY THE ENGINEER.

CONTACT PROJECT ENGINEER AND THE SOUTHEASTERN WISCONSIN REGINAL PLANNING COMMISSION (SEWRPC) AT LEAST TWO WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.

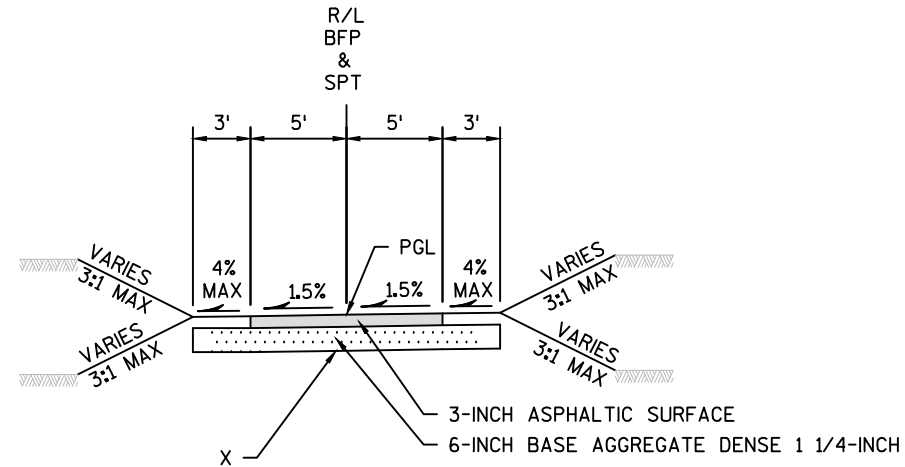
AN EXPANSION FACTOR OF 1.1 WAS USED TO GENERATE ESTIMATED EARTHWORK QUANTITIES. DUE TO POTENTIAL SOIL VARIABILITY, ACTUAL QUANTITIES MAY VARY, NO QUANTITY ADJUSTMENTS WILL BE MADE FOR DIFFERING SOIL EXPANSION FACTORS ENCOUNTERED IN THE FIELD.



PROJECT NO:1060-34-76	HWY:IH 41	COUNTY:MILWAUKEE	PROJECT OVERVIEW - SHARED-USE PATH	SHEET	E
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PROJECT NO:1060-34-76	HWY:IH 41	COUNTY:MILWAUKEE	PROJECT OVERVIEW - SANITARY SEWER	SHEET	E
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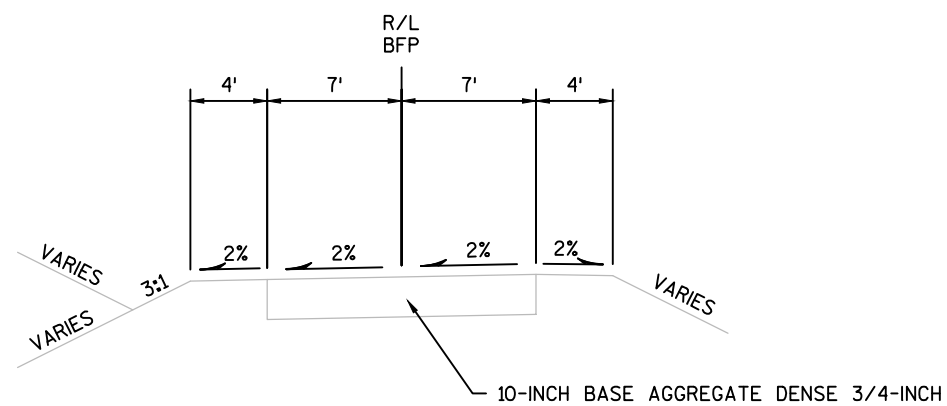


SHARED-USE PATH
TYPICAL FINISHED SECTION
WIL-O-WAY PATH
STA. 15+00.00BFP TO STA. 31+16.56BFP

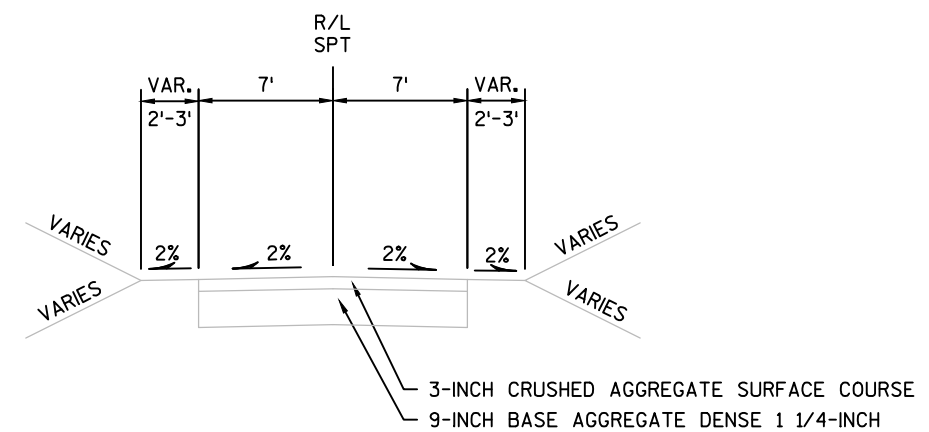
SWAN PEDESTRIAN TRAIL
STA. 14+50.00SPT TO STA. 17+23.00SPT

NOTES:

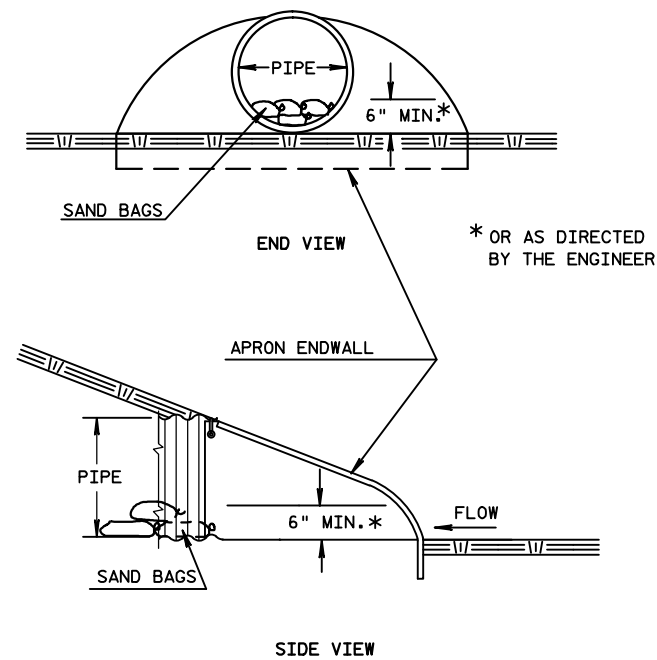
X= POINT REFERENCED TO ON CROSS-SECTIONS
PGL= POINT REFERENCED TO ON PROFILE AND
PIVOT POINT FOR SUPER ELEVATIONS



SHARED-USE PATH
TYPICAL EXISTING SECTION
BUTTERFLY PATH
STA. 15+00.00BFP TO STA. 21+03.80BFP



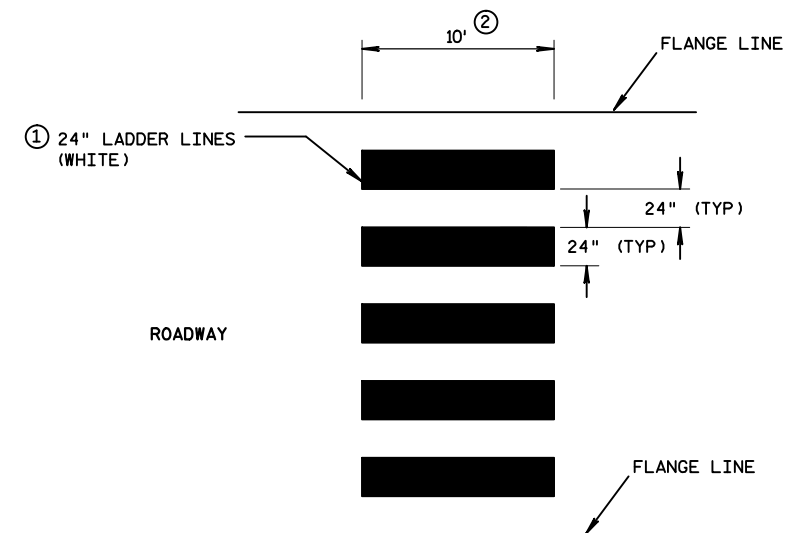
SHARED-USE PATH
TYPICAL EXISTING SECTION
SWAN PEDESTRIAN TRAIL
STA. 14+50.00SPT TO STA. 17+23.00SPT



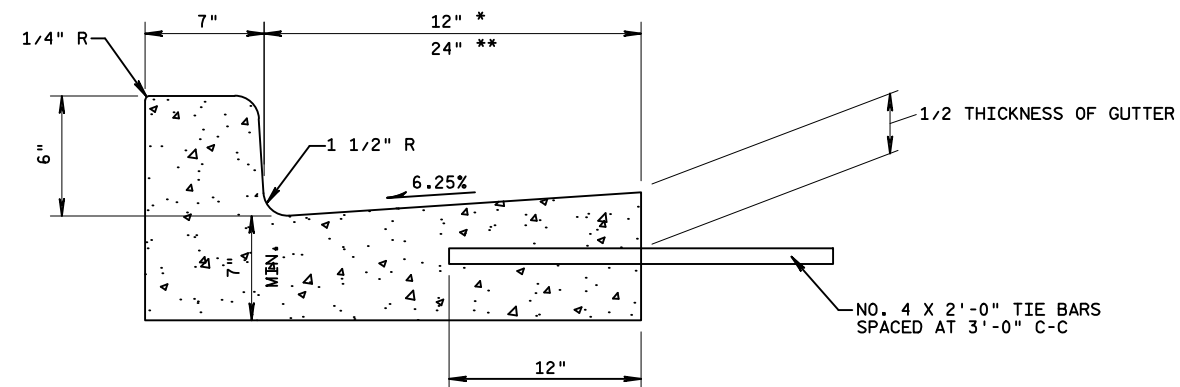
CULVERT PIPE CHECKS

GENERAL NOTES:

- ① PAID AS MARKING CROSSWALK EPOXY LADDER PATTERN 24-INCH
- ② SAME WIDTH OF PATH OR SIDEWALK THE ZEBRA PATTERN CROSSWALK EXTENDS FROM
REMOVE PAVEMENT MARKING THAT CONFLICTS WITH CROSSWALK PAVEMENT MARKING(S)



ZEBRA PATTERN CROSSWALK DETAIL
SEE PLAN DETAILS FOR LOCATIONS



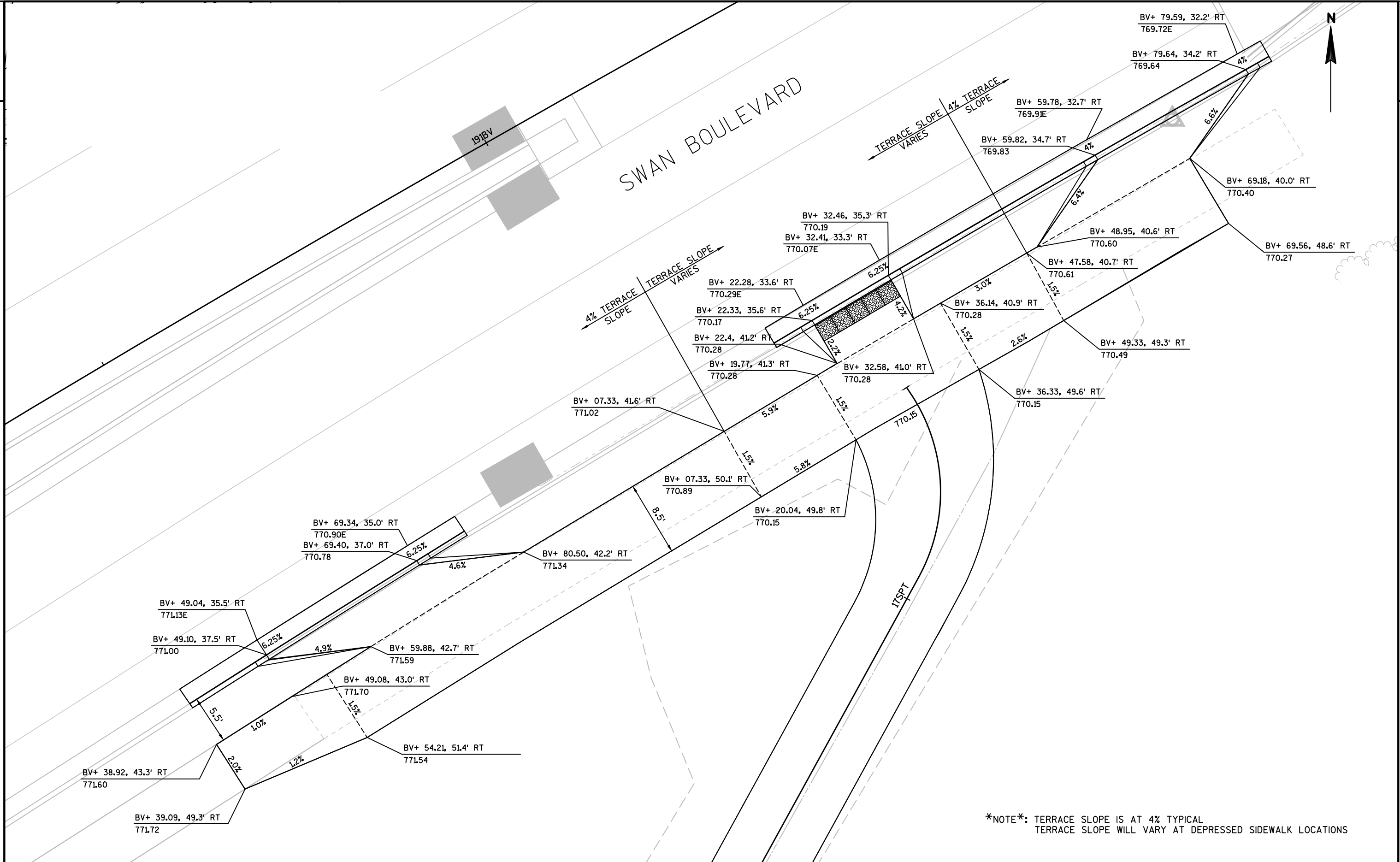
CONCRETE CURB AND GUTTER 19-INCH * 31-INCH **

GENERAL NOTES:

1. TIE BARS ARE REQUIRED FOR CURB AND GUTTER ADJACENT TO NEW CONCRETE PAVEMENT
2. OMIT TIE BARS WHERE INTEGRAL CURB AND GUTTER IS REQUIRED
3. SEE STANDARD DETAIL DRAWING FOR DETAILS NOT SHOWN HERE

2

2

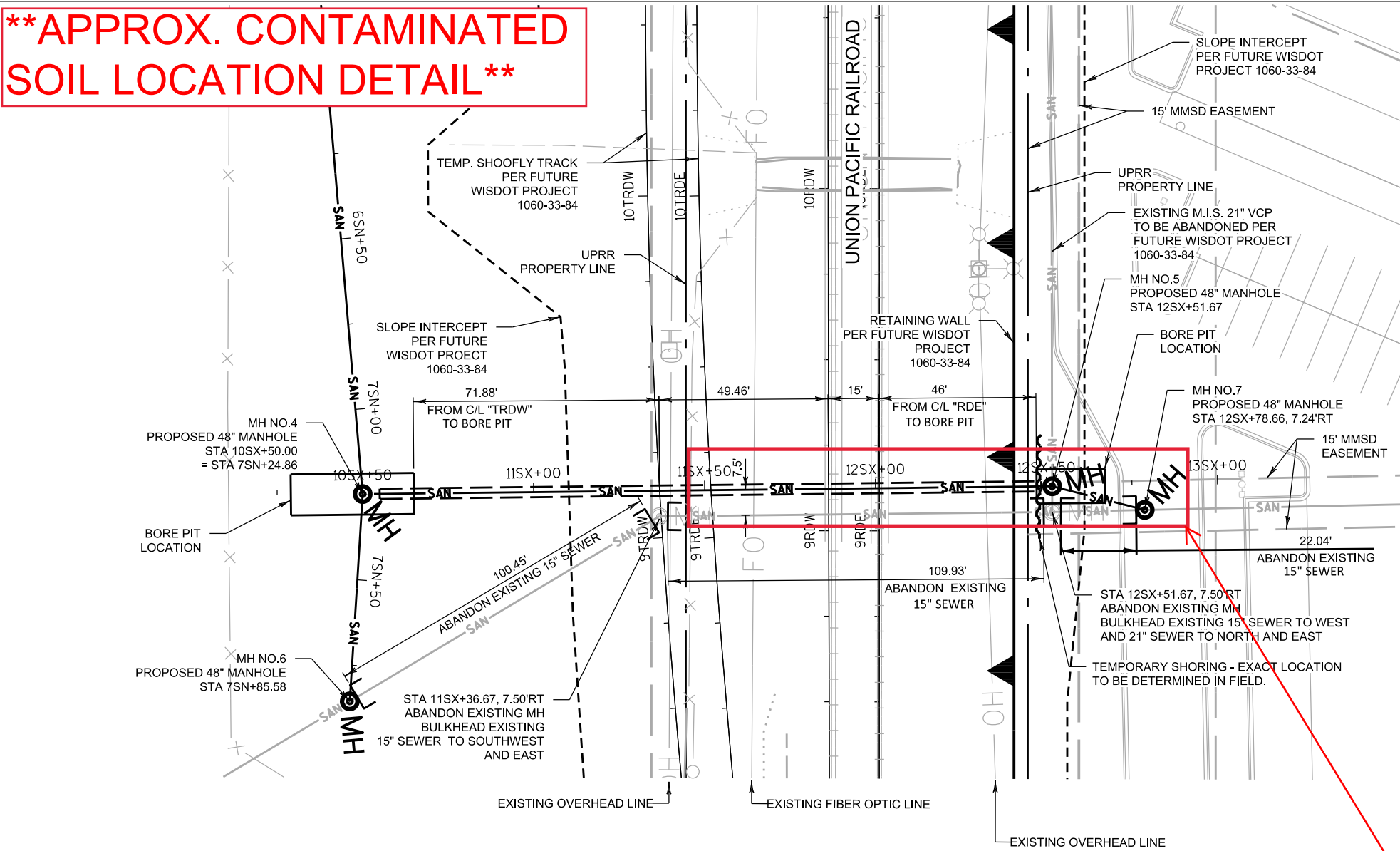


PROJECT NO:1060-34-76	HWY:IH 41	COUNTY:MILWAUKEE	CONSTRUCTION DETAILS	SHEET	E
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FILE NAME : W:\PDS\C3D\10603316\76\DSN\PLAN\021002_CD.DWG PLOT DATE : 8/24/2017 9:11 AM PLOT BY : SARAUER, ADAM N PLOT NAME : PLOT SCALE : 1 IN=10 FT WISDOT/CADDs SHEET 42



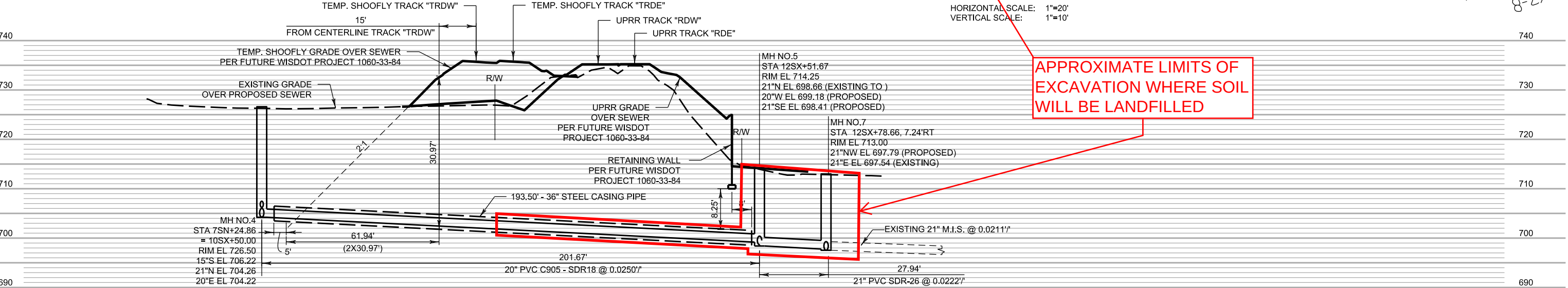
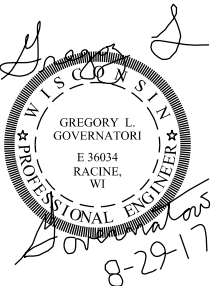
****APPROX. CONTAMINATED
SOIL LOCATION DETAIL****



- NOTES:
1. CONTRACTOR SHALL CALL THE "UPRR CALL BEFORE YOU DIG NUMBER: 1-800-336-9193" PRIOR TO STARTING WORK.
 2. PROTECT IN PLACE ALL UPRR INFRASTRUCTURE ELEMENTS WHEN WORKING IN VICINITY OF ANY SUCH INFRASTRUCTURE ELEMENTS.
 3. CONTRACTOR SHALL PROVIDE TEMPORARY SHORING DESIGN, CALCULATIONS, DOCUMENTATION, AND PLANS PER THE UPRR "GUIDELINES FOR TEMPORARY SHORING" TO THE UPRR FOR APPROVAL PRIOR TO CONSTRUCTION. THE UPRR "GUIDELINES FOR TEMPORARY SHORING" CAN BE FOUND IN THE PROJECT SPECIAL PROVISIONS.
 4. ABANDON SANITARY SEWER UNDER RAILROAD PER THE UPRR "GUIDELINES FOR ABANDONMENT & REMOVAL OF SUBSURFACE STRUCTURE ON UNION PACIFIC RIGHT-OF WAY." THE UPRR "GUIDELINES FOR ABANDONMENT & REMOVAL OF SUBSURFACE STRUCTURE ON UNION PACIFIC RIGHT-OF WAY" CAN BE FOUND IN THE PROJECT SPECIAL PROVISIONS.
 5. CONTRACTOR SHALL ADHERE TO THE FOLLOWING JACK AND BORE METHODS:
 - A. THE BORING OPERATION SHALL BE PROGRESSED ON A 24 / 7 BASIS WITHOUT STOPPAGE UNTIL THE LEADING EDGE OF THE PIPE PASSED ZONE B AS SHOWN IN THE PLAN DETAIL DRAWING TITLED "TRACK PROTECTION SHORING REQUIREMENTS".
 - B. THE FRONT OF THE PIPE SHALL BE PROVIDED WITH MECHANICAL ARRANGEMENT OR DEVICES THAT WILL POSITIVELY PREVENT THE AUGER FROM LEADING THE PIPE SO THAT NO UNSUPPORTED EXCAVATION IS AHEAD OF THE PIPE.
 - C. THE AUGER AND CUTTING HEAD ARRANGEMENT SHALL BE REMOVABLE FROM WITHIN THE PIPE IN THE EVENT AN OBSTRUCTION IS ENCOUNTERED.
 - D. THE OVER-CUT BY CUTTING HEAD SHALL NOT EXCEED THE OUTSIDE DIAMETER OF THE PIPE (PLUS COATING) BY THAT APPROXIMATELY 1-INCH, GROUTING OR OTHER METHODS APPROVED BY THE RAILROAD, SHALL BE EMPLOYED TO FILL SUCH VOID.
 - E. THE FACE OF THE CUTTING HEAD SHALL BE ARRANGED TO PROVIDED A REASONABLE OBSTRUCTION THE FREE FLOW OF SOFT OR POOR MATERIALS.
 - F. PLANS AND DESCRIPTION OF THE ARRANGEMENT TO BE USED SHALL BE SUBMITTED TO THE RAILROAD FOR APPROVAL AND NO WORK SHALL PROCEED UNTIL SUCH APPROVAL IS OBTAINED.
 6. FOR ANY EXCAVATION PERFORMED ON UPRR RIGHT-OF-WAY, PROVIDE THE FOLLOWING EXCAVATION SAFETY MEASURES:

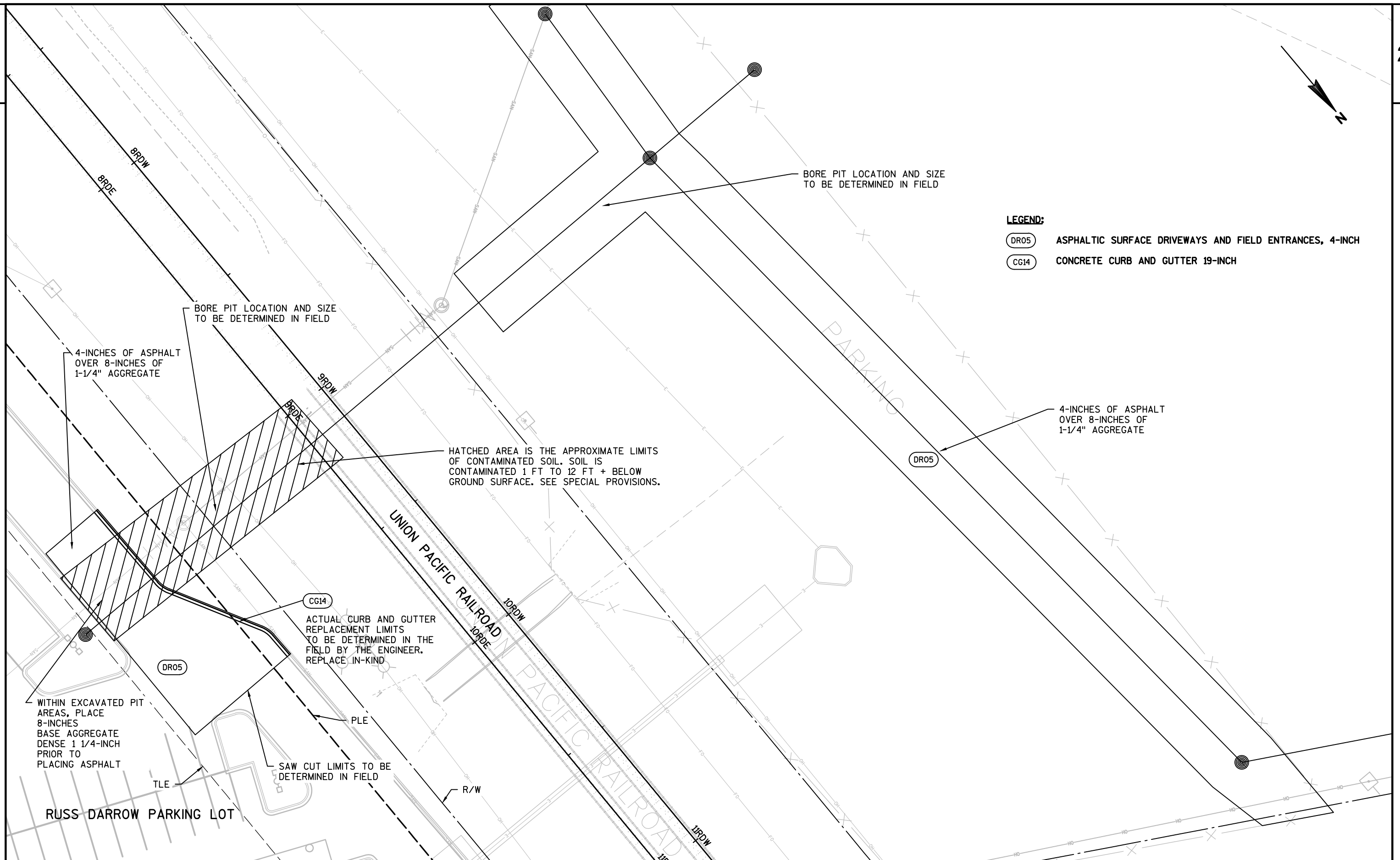
EITHER OF THE FOLLOWING METHODS ARE APPROVED TO PROVIDE SUFFICIENT SAFETY FOR UNATTENDED EXCAVATIONS.

 - A. GUARDRAILS
 1. GUARDRAILS SHALL BE PROVIDED TO SURROUND UNATTENDED EXCAVATIONS ON RAILROAD RIGHT-OF-WAY PER OSHA STANDARD NUMBER 1926.502 AS FOLLOWS:
 - a. THE GUARDRAIL HEIGHT SHALL BE AT LEAST 42 INCHES ABOVE THE WALKING SURFACE.
 - b. THE SMALLEST DIMENSION FOR OPENINGS IN THE GUARDRAIL SHALL BE NO GREATER THAN 19 INCHES.
 - c. GUARDRAIL SYSTEMS SHALL BE CAPABLE OF WITHSTANDING, WITHOUT FAILURE, A FORCE OF AT LEAST 200 POUNDS APPLIED WITHIN 2 INCHES OF THE TOP EDGE, IN ANY OUTWARD OR DOWNWARD DIRECTION, AT ANY POINT ALONG THE TOP EDGE OF THE GUARDRAIL.
 - B. STEEL PLATE
 1. STEEL PLATES MAY BE USED TO COVER UNATTENDED, UPPORTED, SHORING SYSTEMS.
 2. THE AREA SHALL BE SURROUNDED BY ORANGE SAFETY FENCE.



**APPROXIMATE LIMITS OF
EXCAVATION WHERE SOIL
WILL BE LANDFILLED**

REUSE OF DOCUMENTS THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN IS AN INSTRUMENT OF PROFESSIONAL SERVICE AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF THE MILWAUKEE METROPOLITAN SEWERAGE DISTRICT.		VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0" = 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	DSGN KC DR KC CHK GG APVD	This Design Prepared For MMSD By: FORWARD 45		REV. 2 REV. 1 REV. NO.	08/17 DATE	SEWER CROSSING UPRR MOVED FURTHER SOUTH REVISION DESCRIPTION	KC BY	APVD		MILWAUKEE METROPOLITAN SEWERAGE DISTRICT		DRAWING NO.:
												SHEET:		3
												DATE:		OCTOBER 17, 2016
												CONTRACT:		1060-34-76
												MMSD FILE:		



GENERAL NOTES:

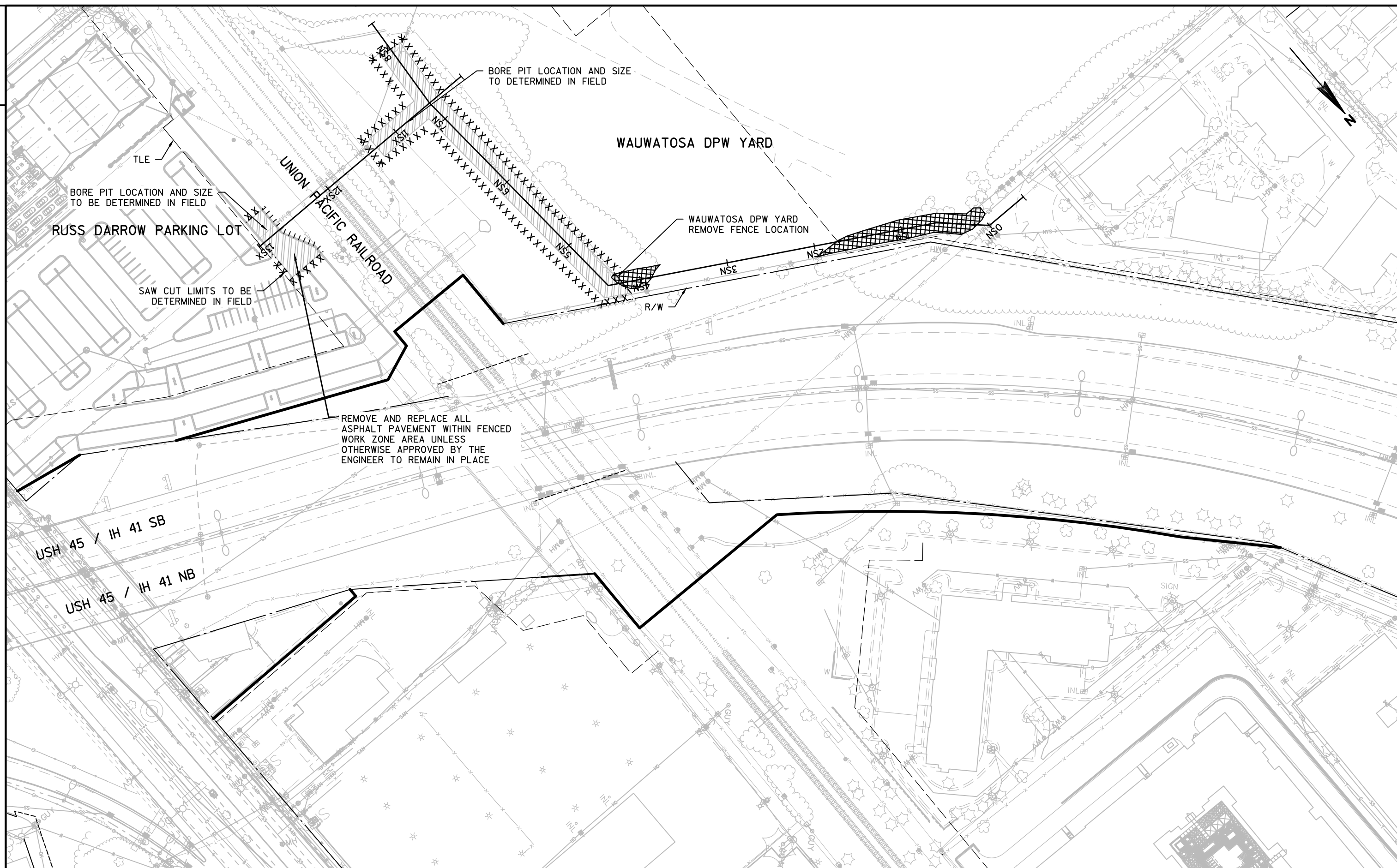
- 1) THE LOCATION OF THE EXISTING UTILITY INSTALLATIONS AS SHOWN ON THE PLANS IS APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN, INCLUDING BUILDING SERVICES AND LATERALS.

REMOVAL LEGEND

	CLEARING AND GRUBBING (I.D.)
	CLEARING AND GRUBBING (STA)
	REMOVING ASPHALTIC SURFACE
	REMOVING CONCRETE SIDEWALK
	REMOVING CURB AND GUTTER, REMOVING CURB
	REMOVING FENCE
	SLOPE INTERCEPT
	SAWING ASPHALT
	SAWING CONCRETE PAVEMENT
	EXCAVATION STONE PILES AND STONE FENCES

2

2



PROJECT NO:1060-34-76	HWY:IH 41	COUNTY:MILWAUKEE	REMOVAL PLANS	SHEET	E
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FILE NAME : W:\PDS\C3D\10603316\76\DSN\PLAN\021101_RM.DWG
LAYOUT NAME - 01_rm

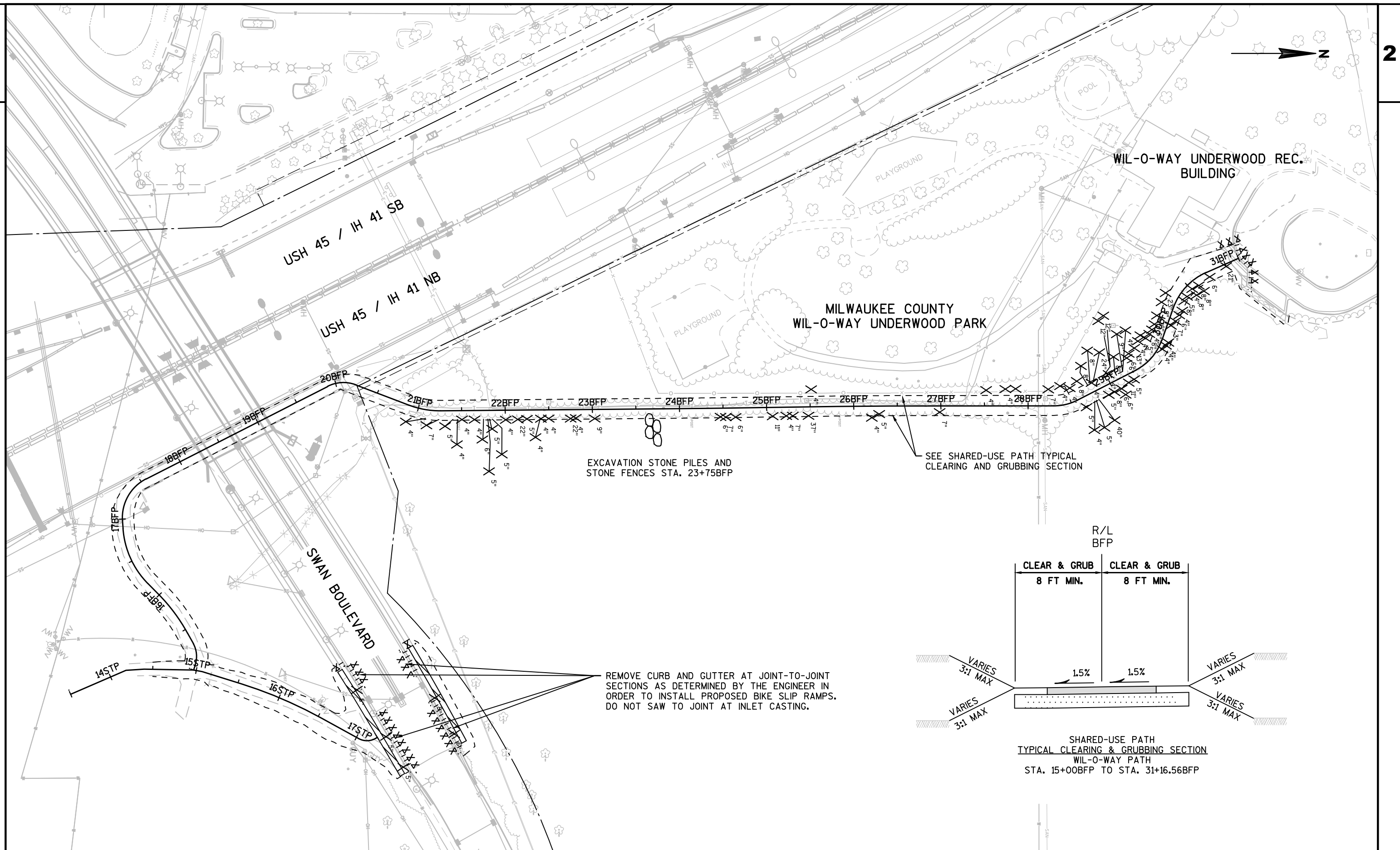
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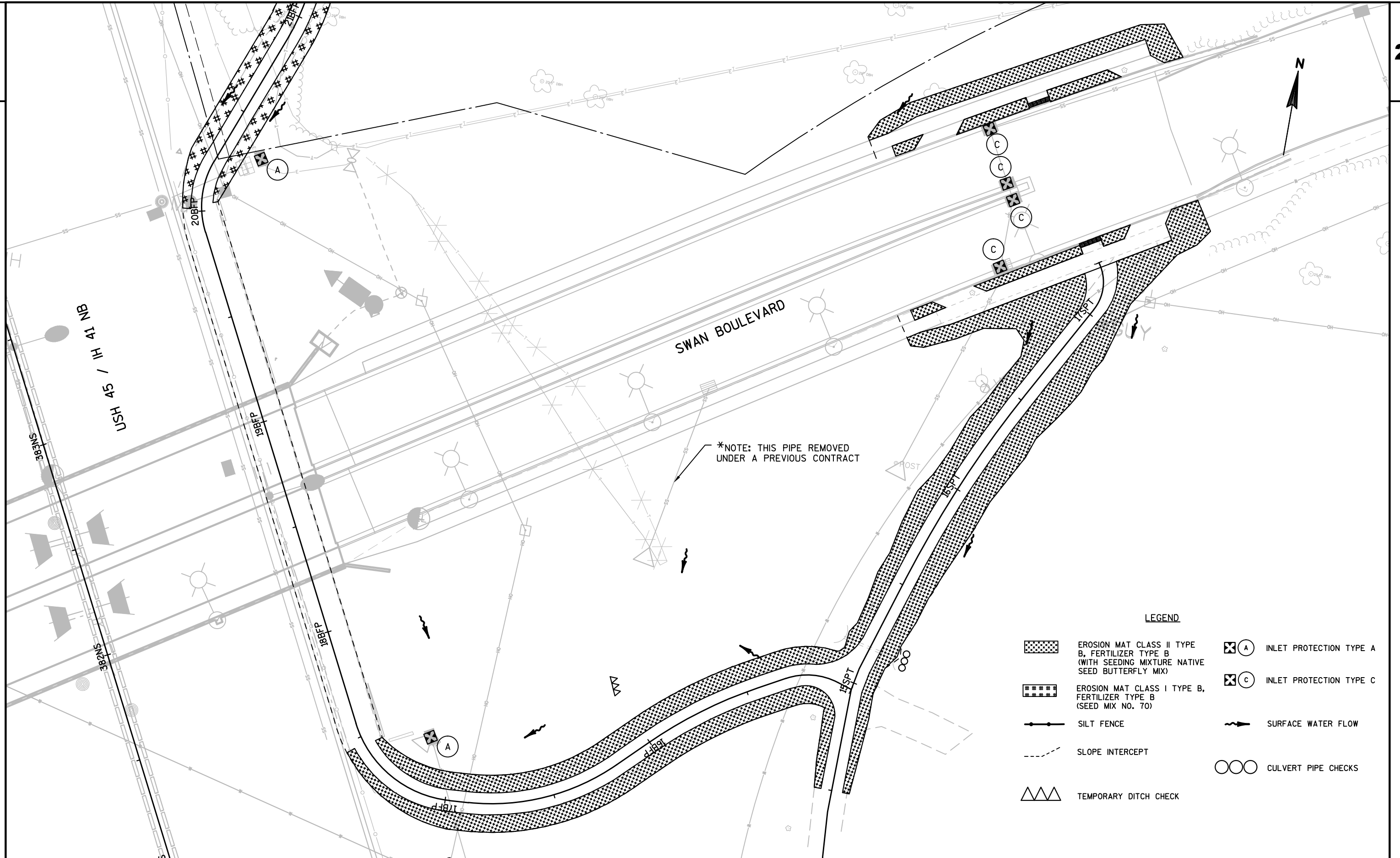
PLOT BY : SARAUER, ADAM N

PLOT NAME :

PLOT SCALE : 1 IN:100 FT

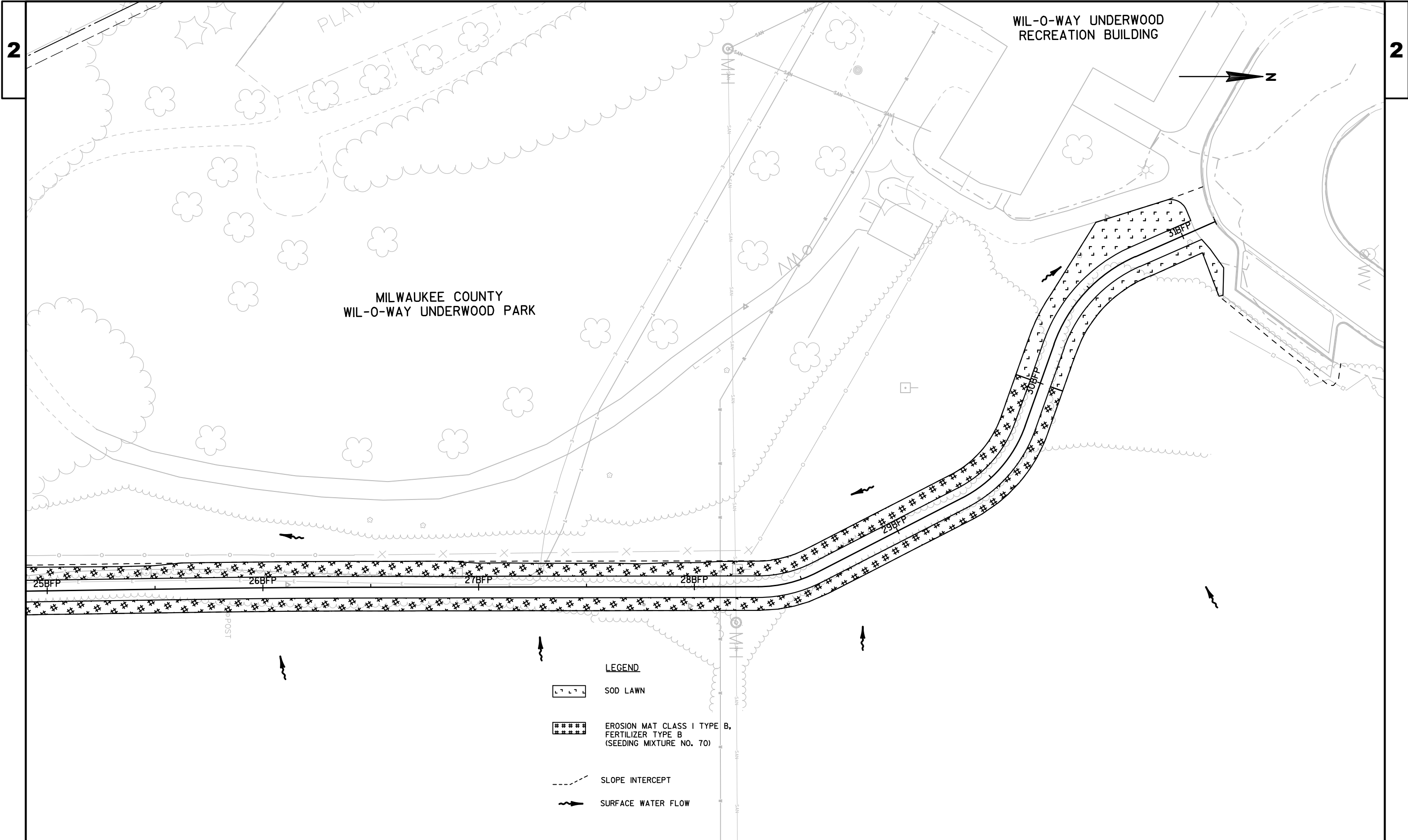
WISDOT/CADDs SHEET 4

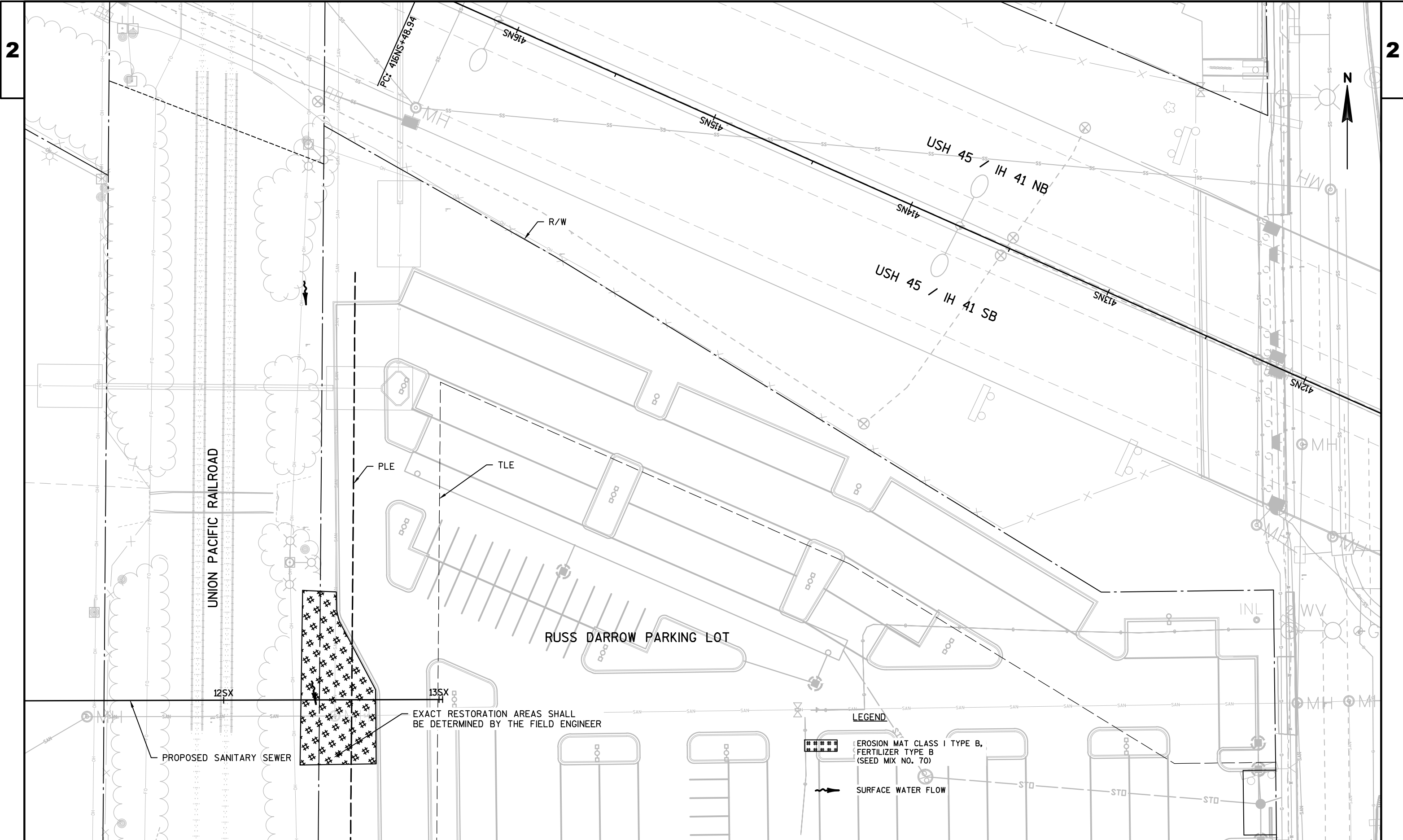




LEGEND

- | | | | |
|---|---|---|-------------------------|
|  | EROSION MAT CLASS II TYPE B, FERTILIZER TYPE B (WITH SEEDING MIXTURE NATIVE SEED BUTTERFLY MIX) |  | INLET PROTECTION TYPE A |
|  | EROSION MAT CLASS I TYPE B, FERTILIZER TYPE B (SEED MIX NO. 70) |  | INLET PROTECTION TYPE C |
|  | SILT FENCE |  | SURFACE WATER FLOW |
|  | SLOPE INTERCEPT |  | CULVERT PIPE CHECKS |
|  | TEMPORARY DITCH CHECK | | |





PROJECT NO:1060-34-76

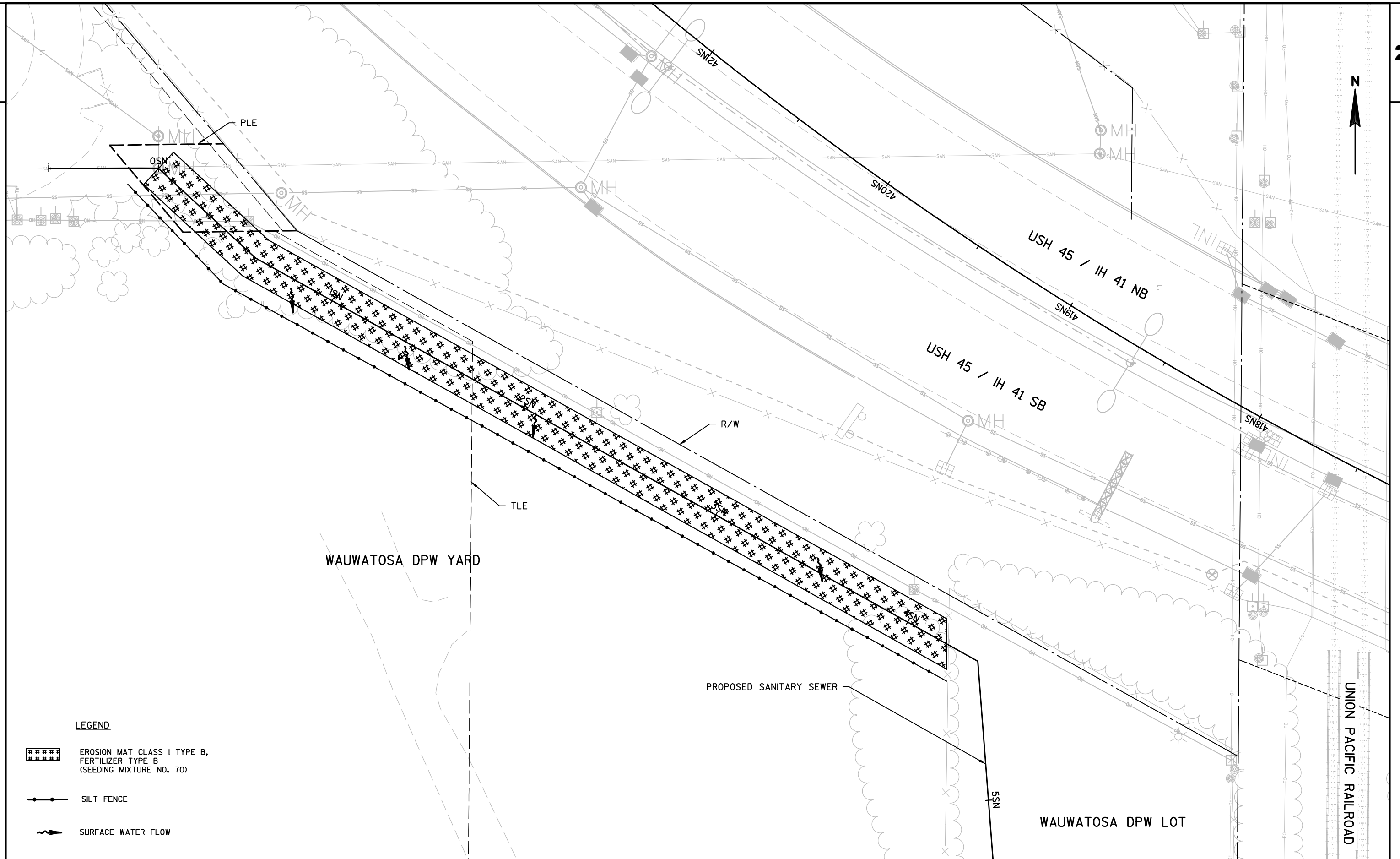
HWY:IH 41

COUNTY:MILWAUKEE

EROSION CONTROL

SHEET

E

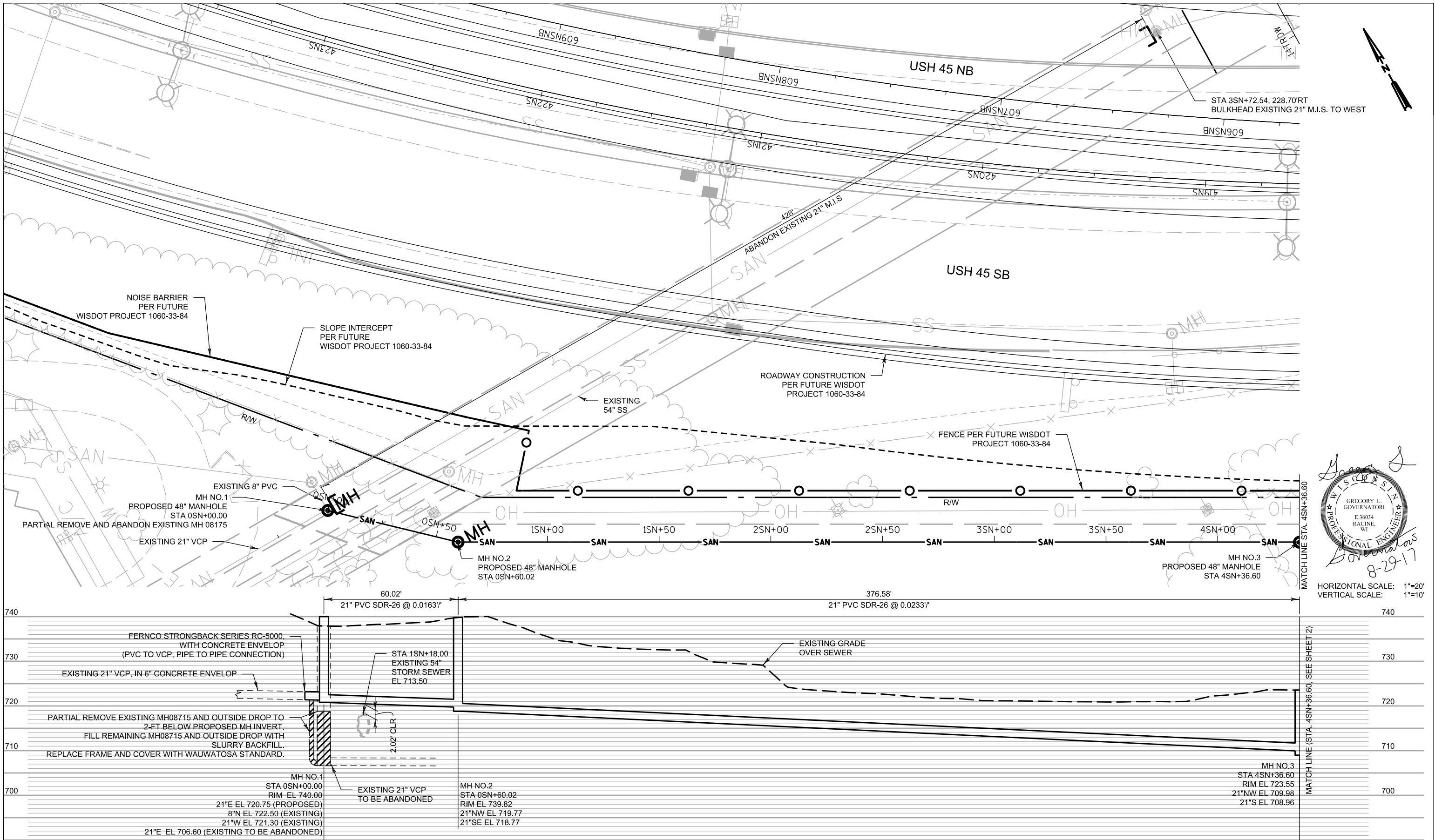


LEGEND

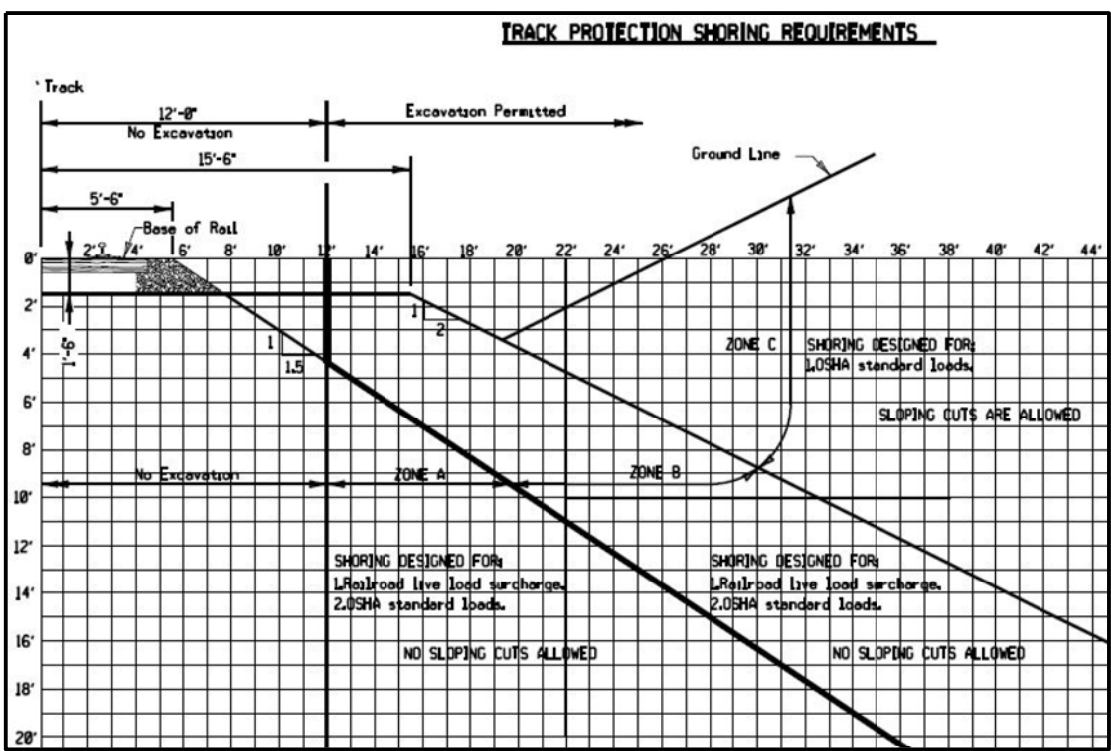
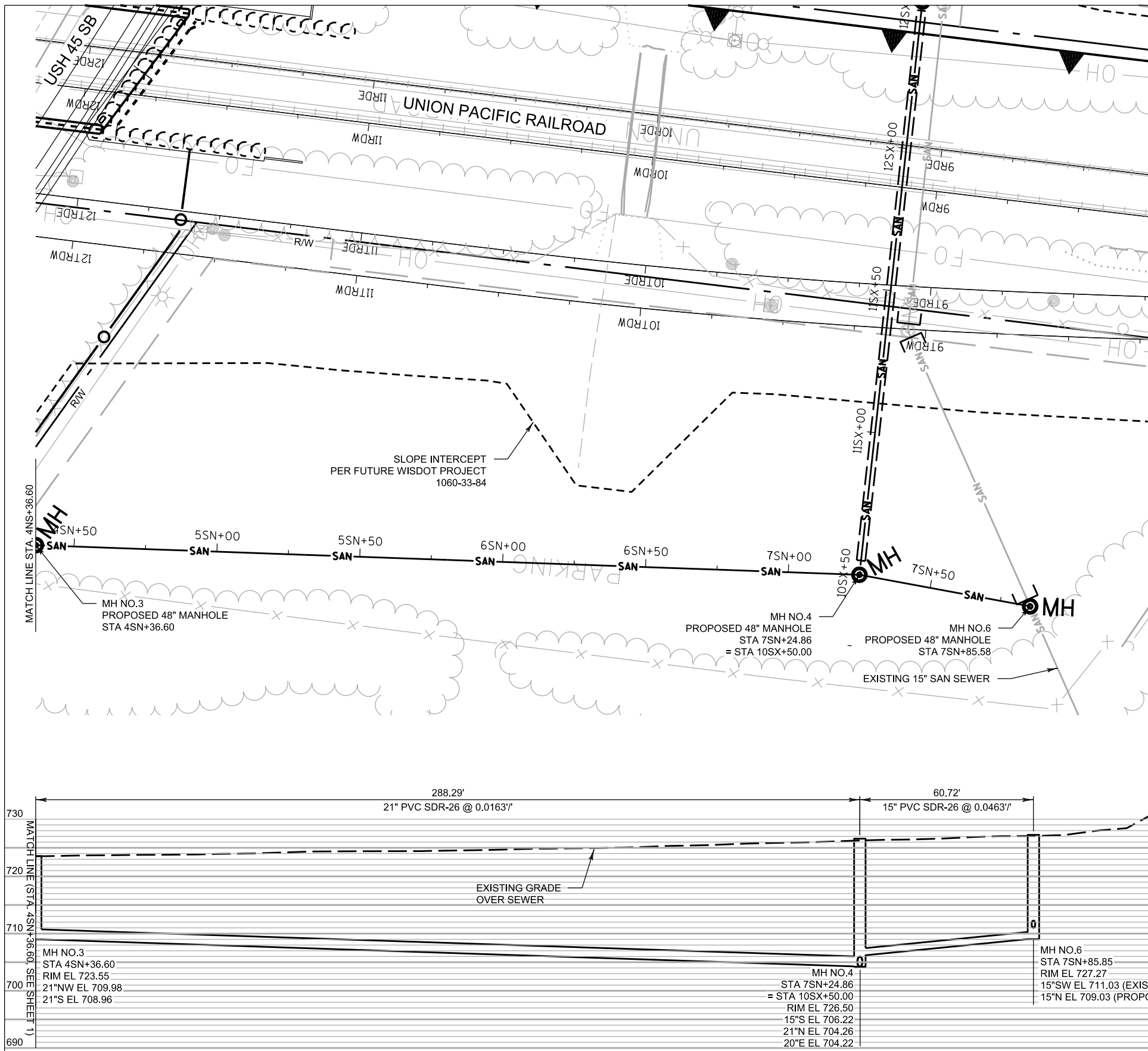
EROSION MAT CLASS I TYPE B,
FERTILIZER TYPE B
(SEEDING MIXTURE NO. 70)

SILT FENCE

SURFACE WATER FLOW

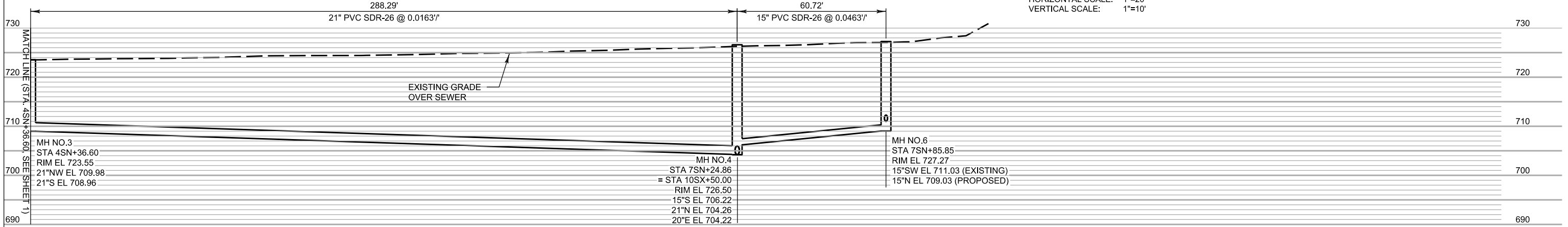


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																	SHEET:	
																	DATE:	
																	CONTRACT:	
																	MMSD FILE:	

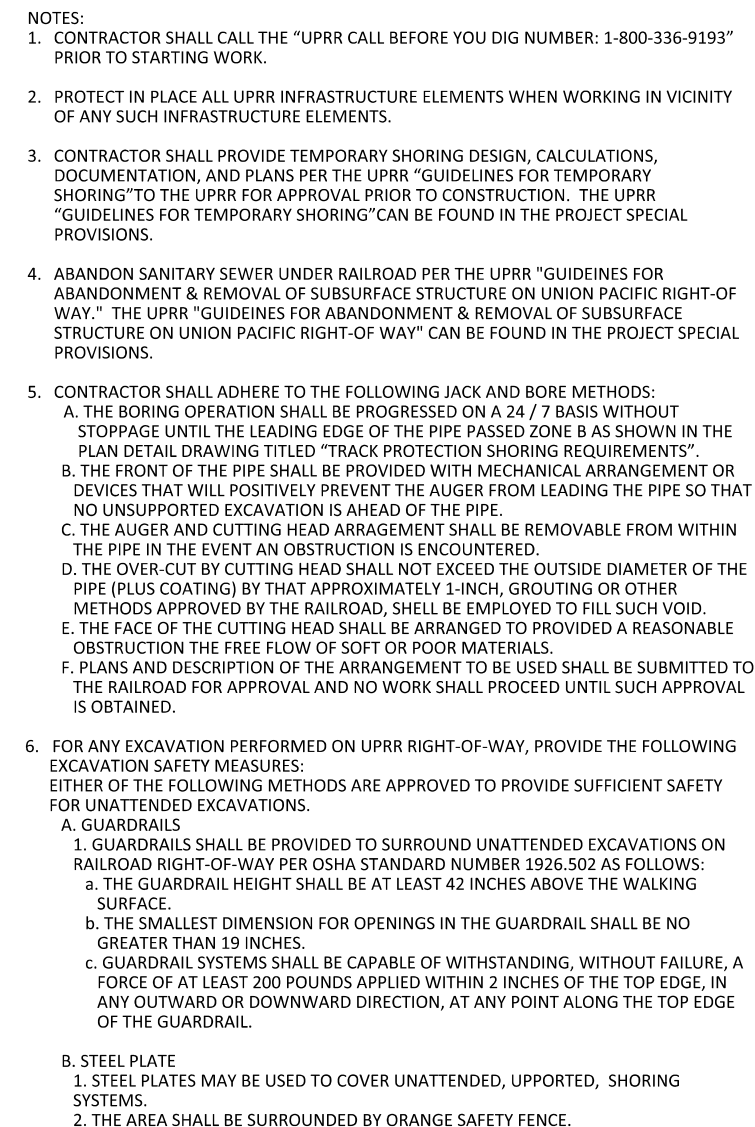


Gregory L. Sins
GREGORY L. SINS
GOVERNATOR
E 36034
RACINE, WI
PROFESSIONAL ENGINEER
8-29-17

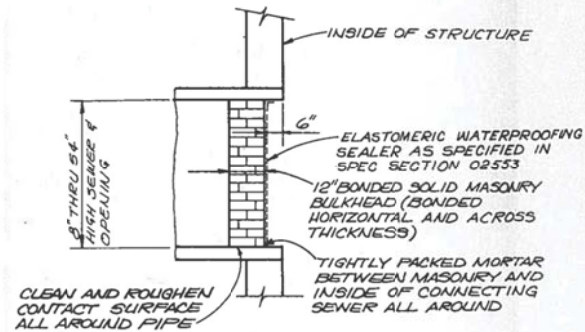
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=10'



REUSE OF DOCUMENTS KC THIS DOCUMENT AND THE IDEAS AND DESIGNS INCORPORATED HEREIN IS CAN INSTRUMENT OF PROFESSIONAL SERVICE AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF THE MILWAUKEE METROPOLITAN SEWERAGE DISTRICT.	VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING 0" = 1" IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	DSGN	This Design Prepared For MMSD By:						 PARTNERS FOR A CLEANER ENVIRONMENT	MILWAUKEE METROPOLITAN SEWERAGE DISTRICT			DRAWING NO.:
		KC	 A JOINT VENTURE OF KAPPAI, DASH, WELLS AND PARTNERS	REV. 3							SHEET:	2	
		DR		REV. 2							DATE:	OCTOBER 17, 2016	
		KC		REV. 1	08/17	SEWER CROSSING UPRR MOVED FURTHER SOUTH	KC			CONTRACT:	1060-34-76		
		CHK		REV. NO.	DATE	REVISION DESCRIPTION	BY	APVD		MMSD FILE:			
GG													
APVD													

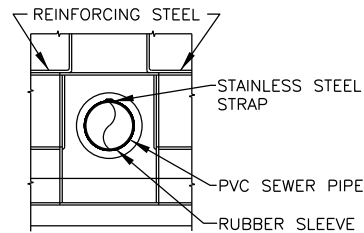
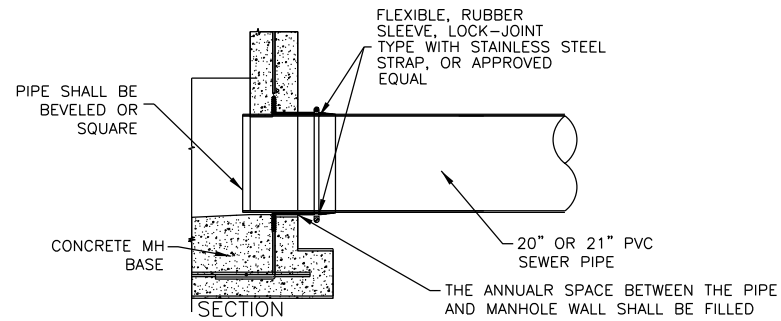


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		DR KC		REV. 1	08/17	SEWER CROSSING UPRR MOVED FURTHER SOUTH	KC		APVD	SHEET:	3
		CHK GG		REV. NO.	DATE	REVISION DESCRIPTION	BY			DATE:	OCTOBER 17, 2016
		APVD								CONTRACT:	1060-34-74
										MMSD FILE:	

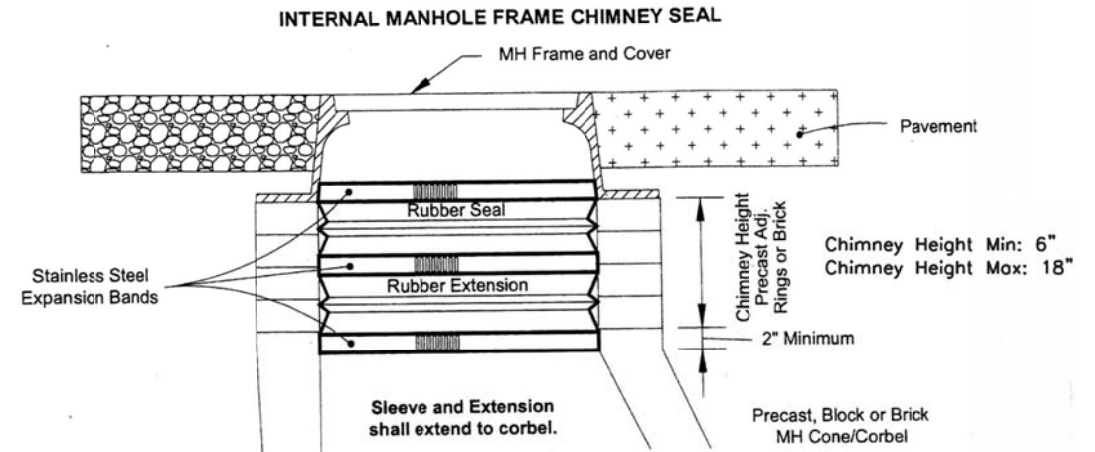


PERMANENT BULKHEAD DETAIL FOR 8" THRU 54" HIGH SEWER AND OPENING
N.T.S

1 BULKHEAD DETAIL
N.T.S



3 FLEXIBLE CONNECTION TO MANHOLE DETAILS
N.T.S



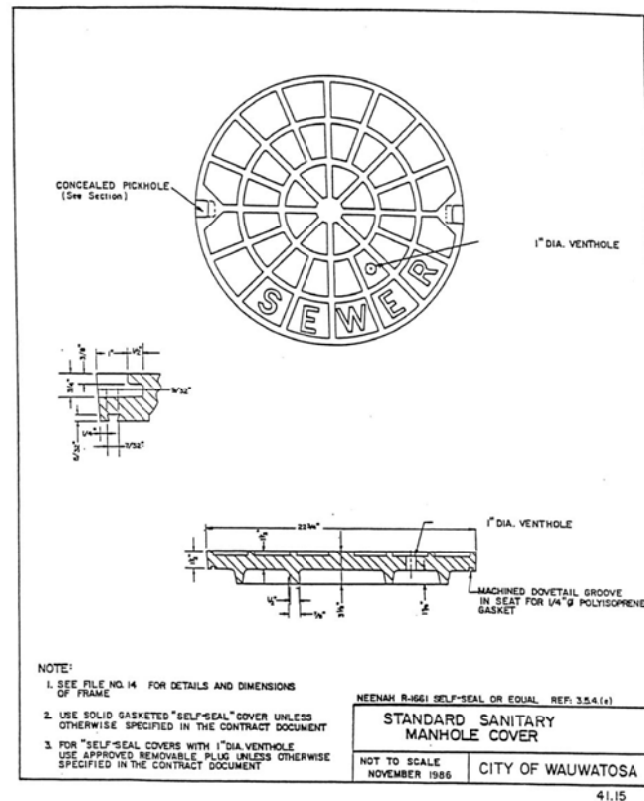
NPC FlexRib Seal		
Chimney Height	Seal Width & Quantity	Extension Quantity Required
0' - 5'	1 - 8 1/2' Seal	None
2' - 7'	1 - 10 1/2' Seal	None
5' - 13'	1 - 8 1/2' Seal	1 - Extension
7' - 15'	1 - 10 1/2' Seal	1 - Extension
15' - 22'	1 - 10 1/2' Seal	2 - Extension
22' - 29'	1 - 10 1/2' Seal	3 - Extension

Cretex Specialty Products MH Chimney Seal			
Combinations of Seals & Extensions	To Seal Chimney Heights of:		
	w/ Std Seal	w/ Wide Seal	w/ Extra Wide Seal
Seal Only	0' - 4 1/2'	2' - 7 1/2'	6' - 12'
Seal + 7' Extension	Over 4 1/2' - 10 1/2'	Over 7 1/2' - 13 1/2'	Over 12' - 18'
Seal + 10' Extension	Over 10 1/2' - 13'	Over 13 1/2' - 16'	Over 18' - 20 1/2'
Seal + Mult Extensions	Over 13'	Over 16'	Over 20.5'
Add 6' of Coverage for each additional 7' Extension			
Add 8 1/2' of Coverage for each additional 10' Extension			

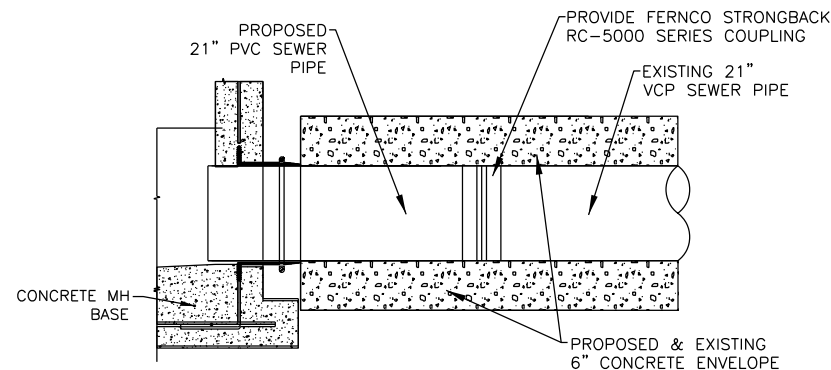
Unless the manholes are to be adjusted and set to grade under a separate contract, the frame chimney joints shall be as specified in the Standard Specs. Sanitary sewer manholes shall be constructed with a Type I, flexible watertight frame/chimney joint as detailed in Section 3.5.4(f)1.(a) of the Standard Specs.

The approved Manhole frame/chimney seal, where required, shall consist of a flexible rubber sleeve, overlapping extension or extensions and stainless steel bands. They shall be furnished and installed by the Contractor and shall be an internal rubber sleeve as manufactured by Cretex Specialty Products, 2002 Southwest Avenue, Waukesha, Wisconsin 53187, NPC, Inc., 250 Elm Street, PO Box 301, Milford, NH 03055 or Engineer pre-approved equal. The contractor shall use the proper tools for installation of the seals.

- Surface Preparation.** Surface preparation shall be as follows or as recommended by the manufacturer if their requirements are more stringent:
 - Remove manhole cover and allow any accumulated fumes to dissipate, open additional manholes or use blower to ventilate, if necessary.
 - Power wire brush the lower 3' of the manhole frame to remove any loose rust or scale and repair any imperfections by either grinding smooth or filling with mortar. A reasonably smooth clean sealing surface is required.
 - Realign the casting if it is offset more than approximately 2" from the chimney.
 - As a guide for proper seal alignment, make a visible line or series of alignment marks around the frame 2-3/4" up from the bottom edge of the frame for normal positioning. The sleeve can be installed higher in the frame if necessary, in which case the marks should be raised accordingly.
 - Remove all loose and protruding mortar and brick from the upper 7' chimney and clean surface by power wire brushing. Provide a 4" wide sealing surface starting 2" down from the bottom of the frame.
 - All sealing surfaces must be circular, reasonably smooth, clean and free of any loose material or excessive voids. If such a surface does not exist for the bottom of the sleeve to seal against, the contractor shall prepare one. The contractor shall use one-component, quick-set, high strength, non-shrink, polymer modified patching mortar which has been formulated for vertical or overhead use to prepare the uniform vertical sealing surface.
 - If the bottom of the sleeve is to seal against the top of an eccentric (straight side) cone and an inadequately high vertical surface does not exist, the contractor shall contact the manufacturer to obtain details for build the required vertical surface.
 - If any caulk is used to fill minor irregularities in the bottom sealing surface, the caulk shall be a butyl rubber caulk conforming to AASHTO M-198, Type B. When used, the contractor shall apply a single bead of the caulk to the center portion of the lower sealing surface of the sleeve. The contractor shall not use any other type of caulking material. Any flaws in the manhole frame, such as minor cracks, pits or protrusions, shall be repaired by either filling with mortar or grinding smooth.
- Internal MH Fra/Chim Seal Installation.** The contractor shall also refer to the mfg's literature for additional installation variations and options.
 - Install the rubber sleeve with the printing at the top and the top edge lined up with the previously applied alignment marks.
 - Wipe off the outside of one of the stainless steel bands and apply a moderate coating of band lubricant to the slot area and a light to moderate coating to the remainder of the band's outside surface. The contractor shall install either the top band or the smaller band, if two different sized bands are being used, first.
 - Install the band in the appropriate band recess with the slotted end against the rubber surface. Position the expansion tool and expand the band until the locking tabs pop into the tightest slots possible. Loosen the tool slowly until the tabs are fully engaged in the slots, then continue to loosen and remove the tool. When installing a larger diameter band, use one of the auxiliary tool slots to start the expansion process. Move one leg of the tool to the primary tool slot if necessary to complete the process.
 - Lubricate the second band and install it in the other band recess, attach the tool and expand as before, keeping the bands parallel. The bands can be put closer together only if a limited height is available or if excessive sleeve expansion is desired.
 - Check the top and bottom edges of the installed sleeve to insure that it has been properly compressed against the two surfaces.

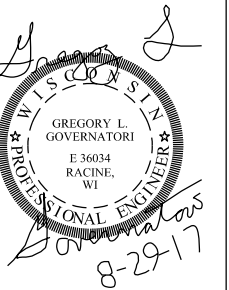


2 WAUWATOSA STANDARD MANHOLE FRAME AND COVER DETAIL
N.T.S



4 6" CONCRETE ENVELOPE DETAIL
N.T.S

5 INTERNAL MH FRAME CHIMNEY SEAL
N.T.S



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VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0" = 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DSGN
KC
DR
KC
CHK
GG
APVD

This Design Prepared For MMSD By:



REV. 3
REV. 2
REV. 1
REV. NO.

MM/YY
DATE

REVISION DESCRIPTION

BY

APVD



MILWAUKEE METROPOLITAN SEWERAGE DISTRICT

DRAWING NO.:

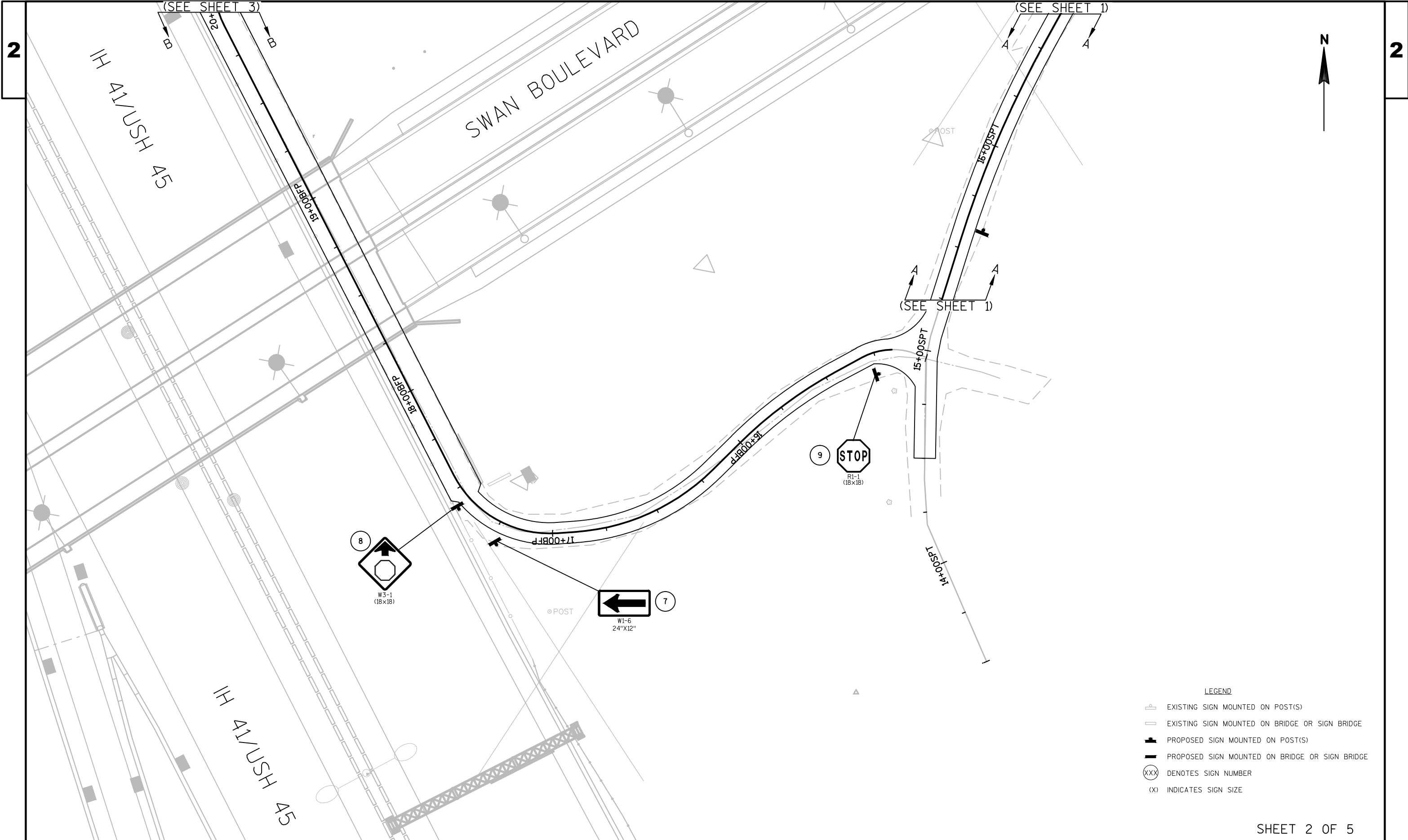
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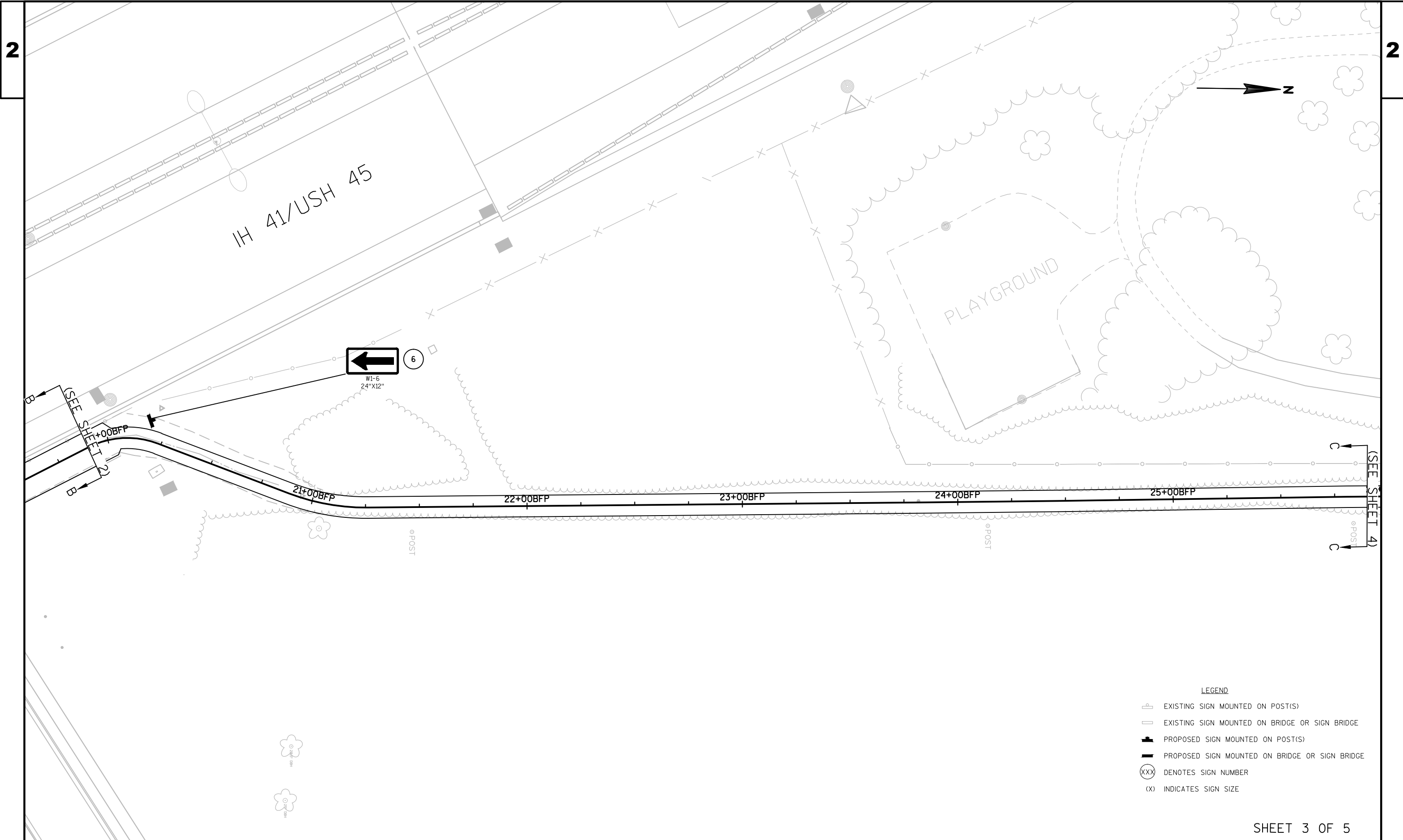
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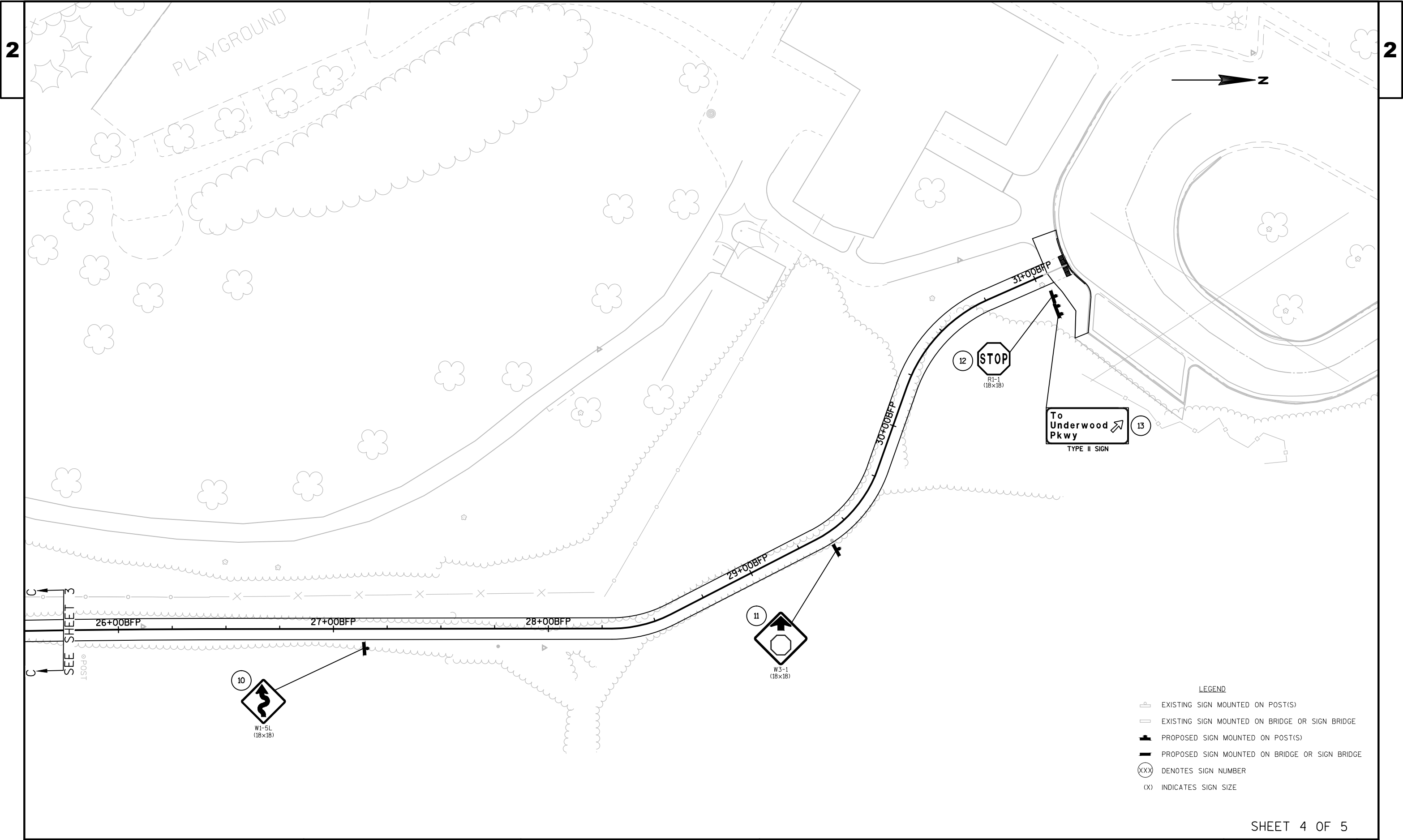
CONTRACT: 1060-34-76

MMSD FILE:









PROJECT NO:1060-34-76

HWY:IH 41

COUNTY:MILWAUKEE

PERMANENT SIGNING PLAN

SHEET

E

FILE NAME : W:\PDS\C3D\CAD\10603316\76\SIGN\023201_PS.DWG
LAYOUT NAME - 04_PM

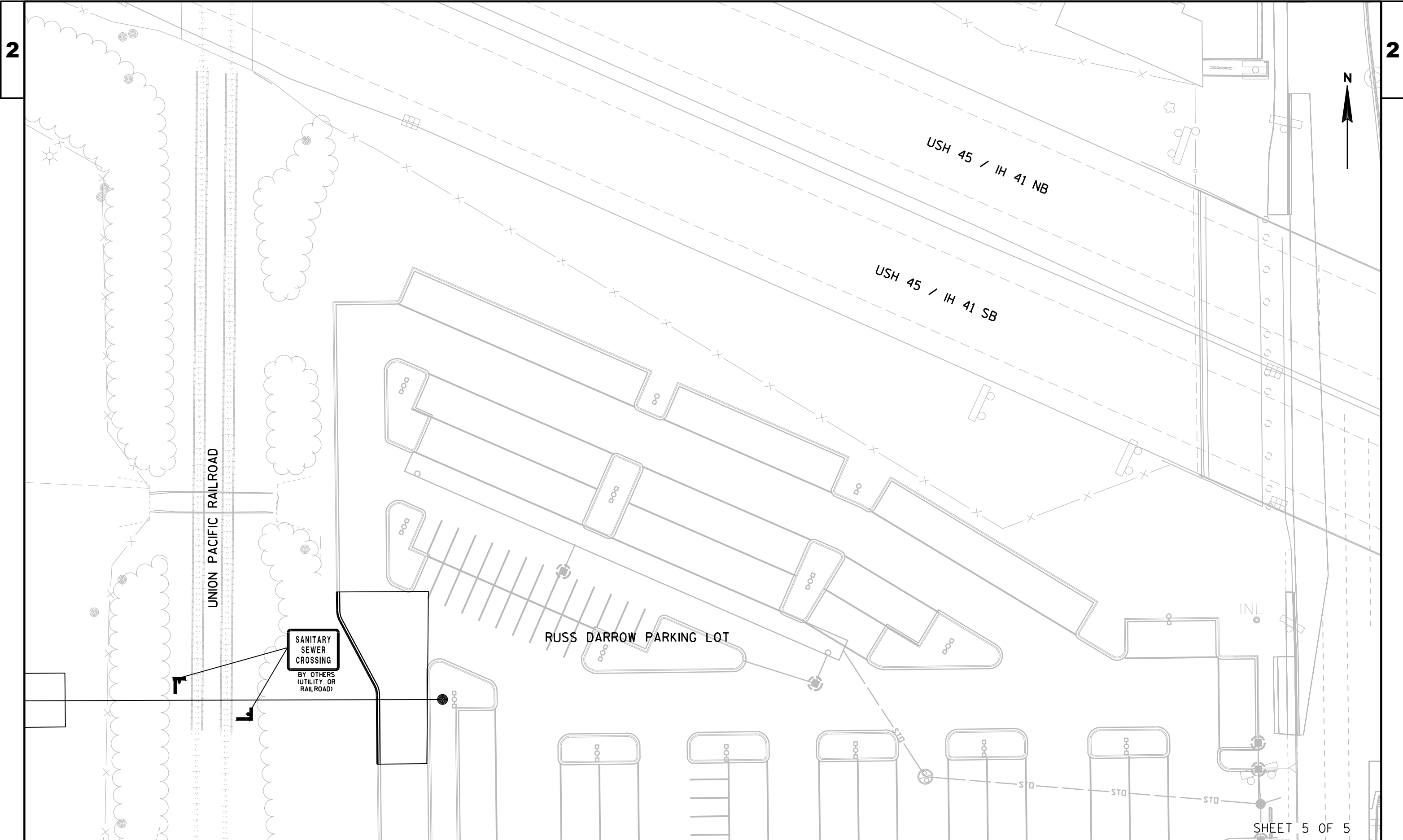
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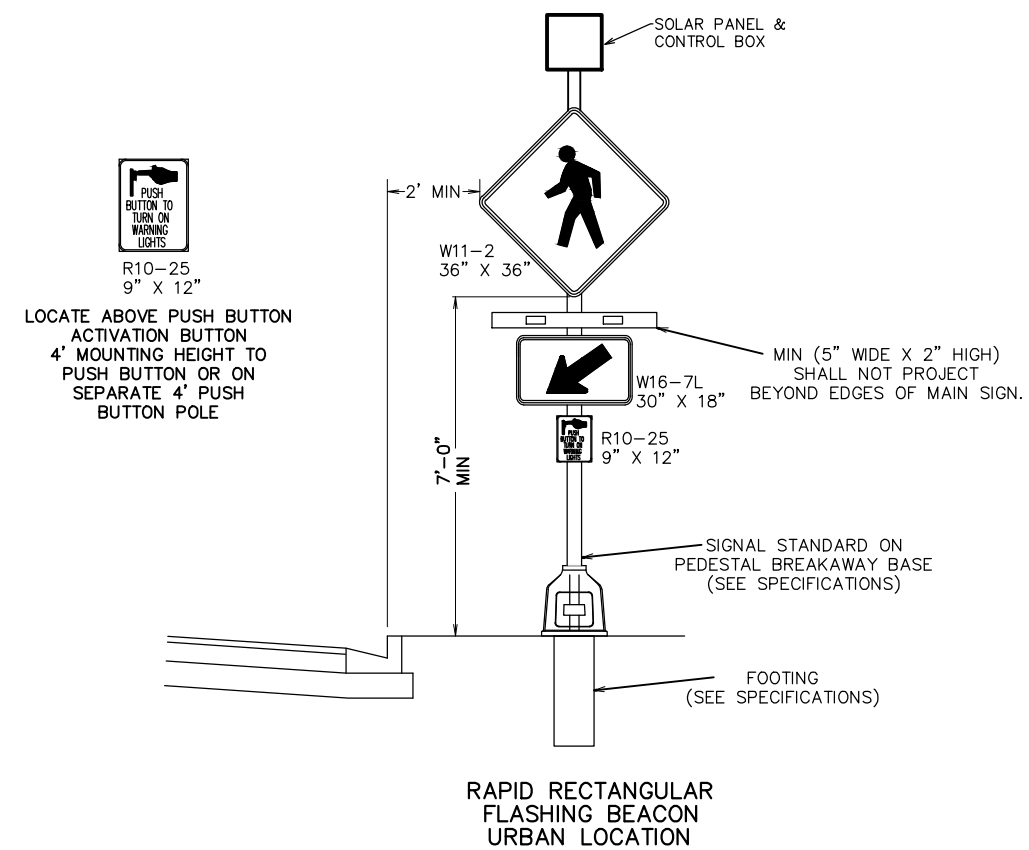
PLOT BY : DODGE, BRIAN M

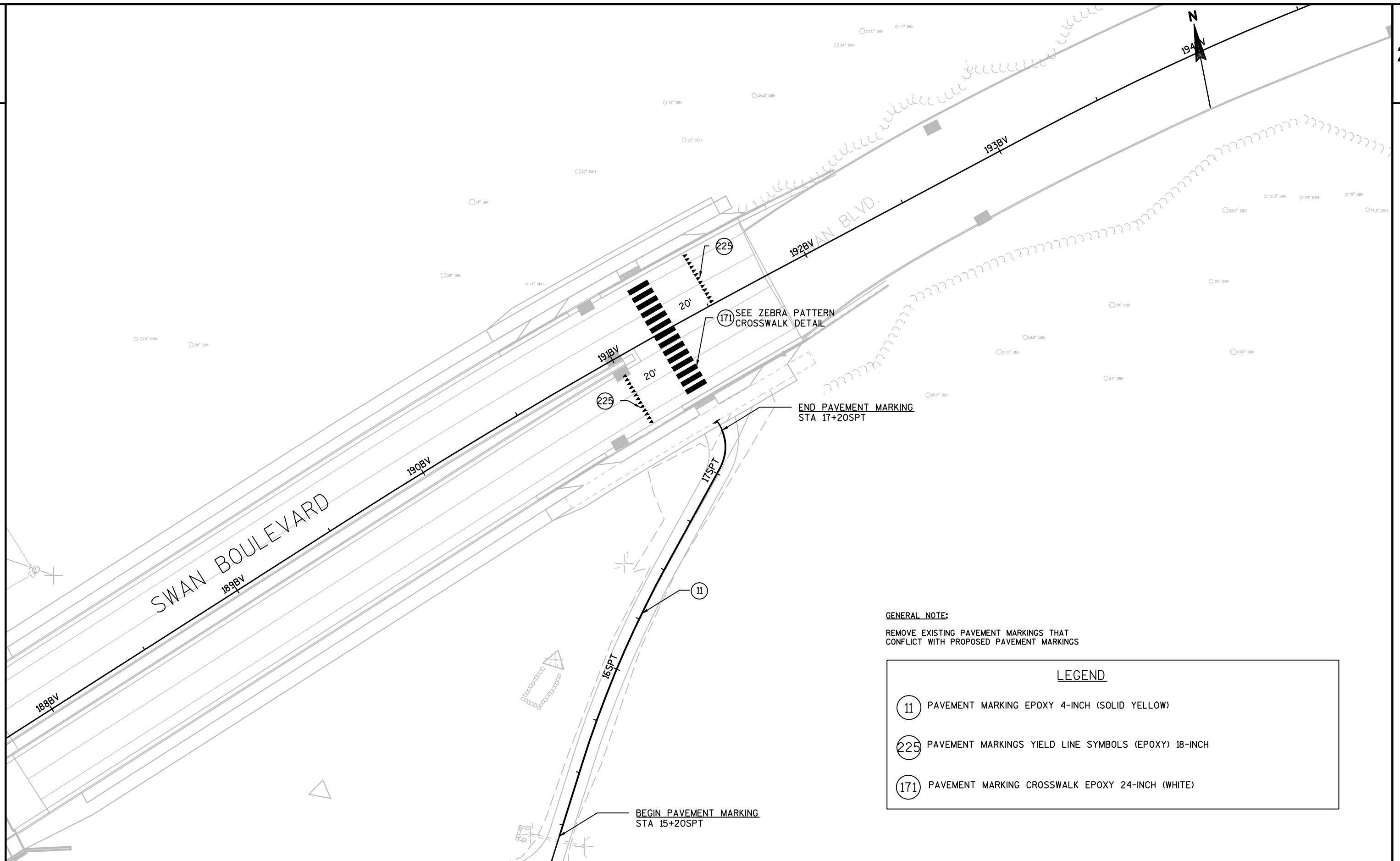
PLOT NAME :

PLOT SCALE : 1 IN:40 FT

WISDOT/CADDs SHEET 42







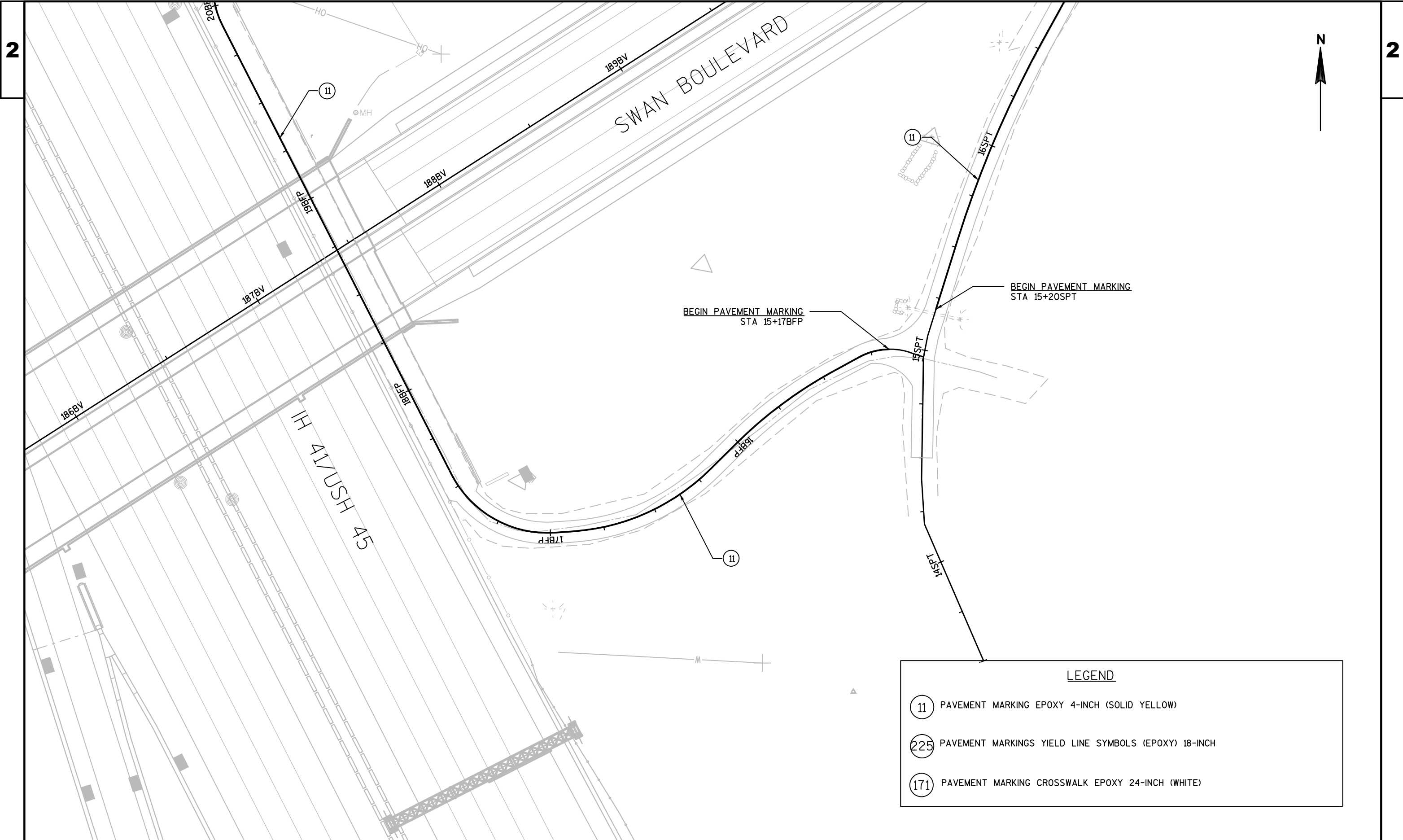
GENERAL NOTE:
REMOVE EXISTING PAVEMENT MARKINGS THAT
CONFLICT WITH PROPOSED PAVEMENT MARKINGS

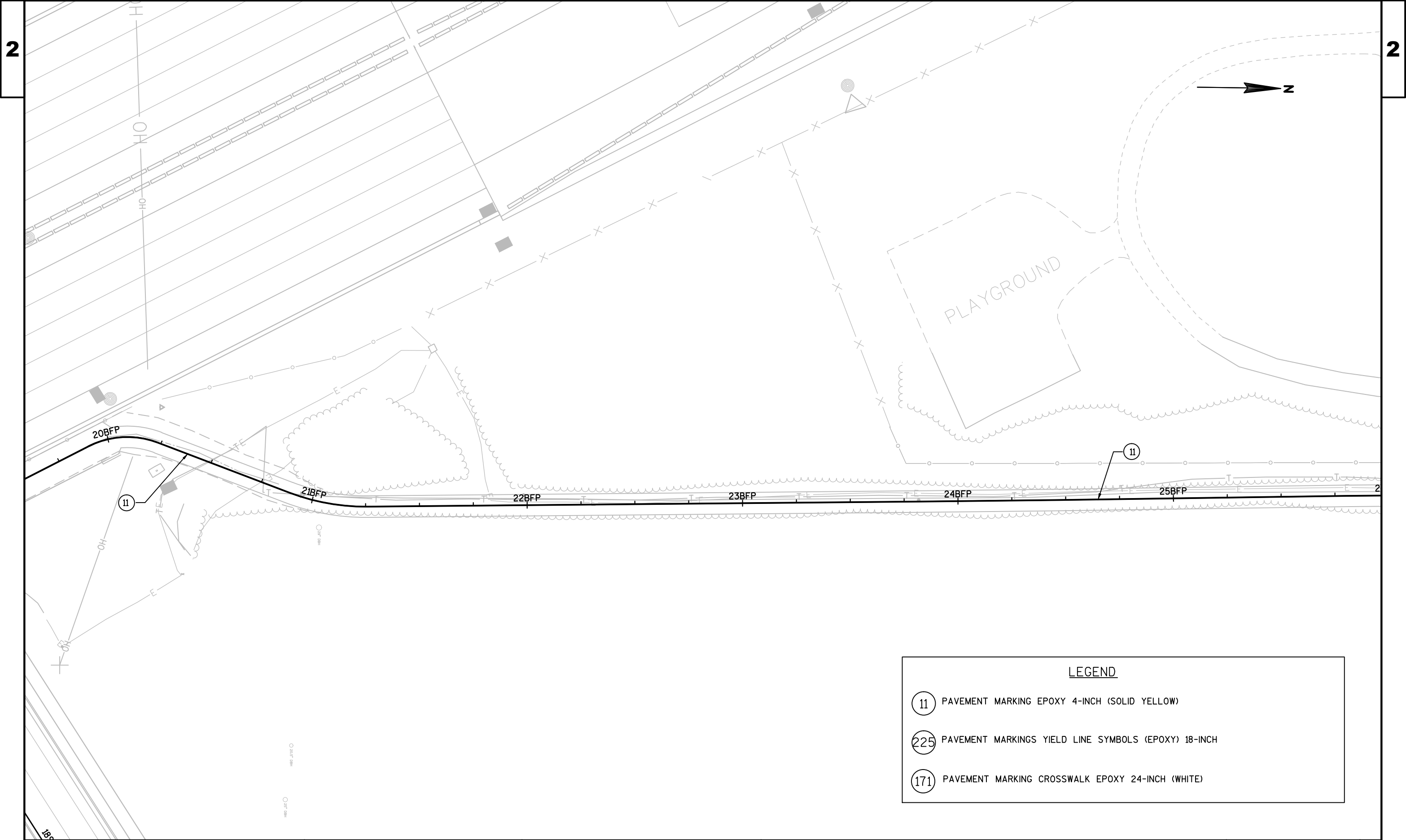
LEGEND

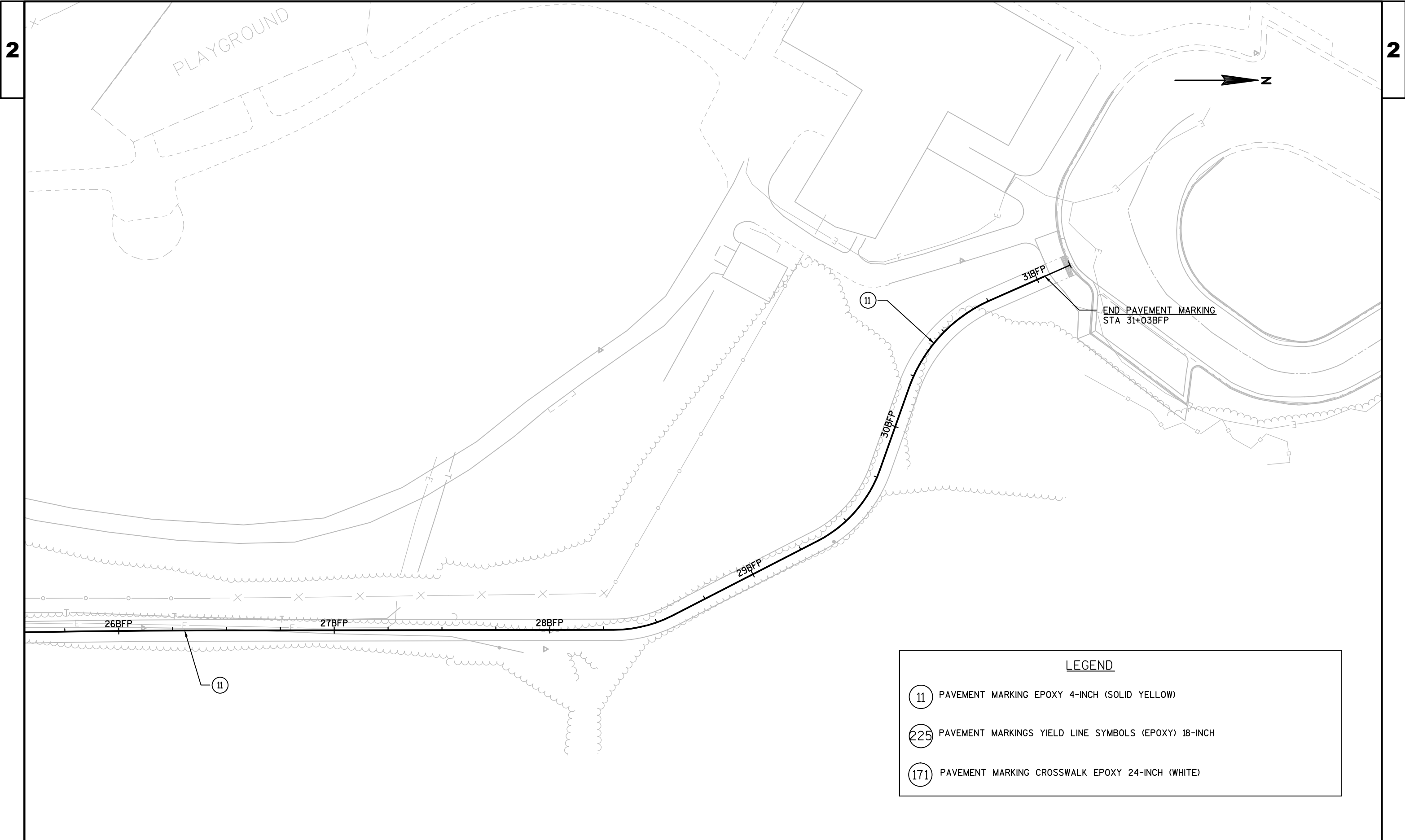
11 PAVEMENT MARKING EPOXY 4-INCH (SOLID YELLOW)

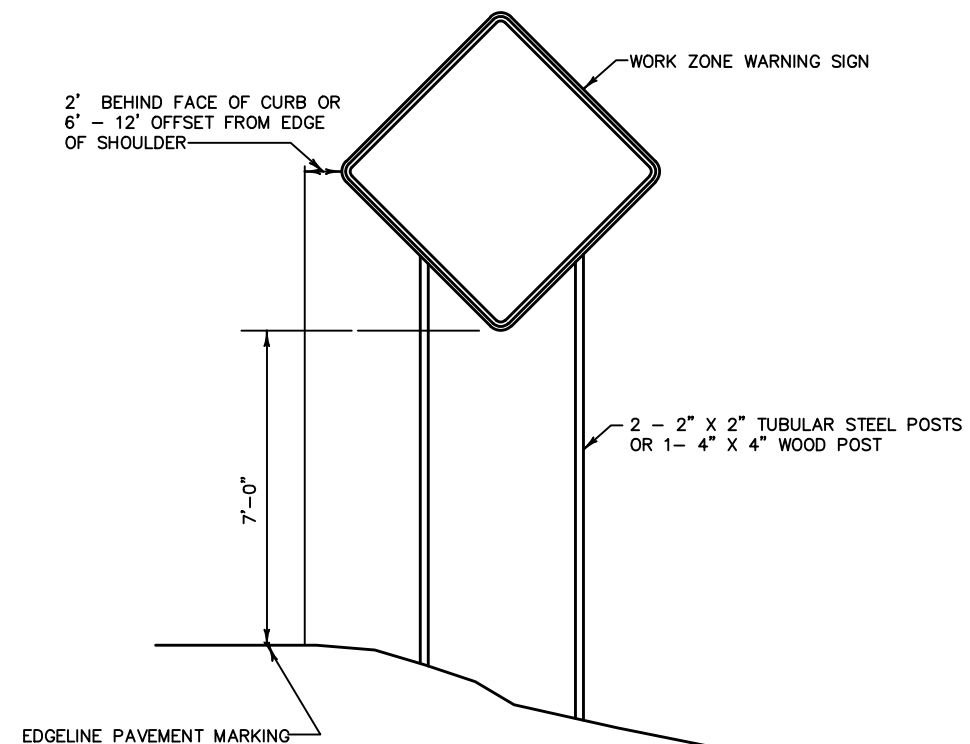
225 PAVEMENT MARKINGS YIELD LINE SYMBOLS (EPOXY) 18-INCH

171 PAVEMENT MARKING CROSSWALK EPOXY 24-INCH (WHITE)



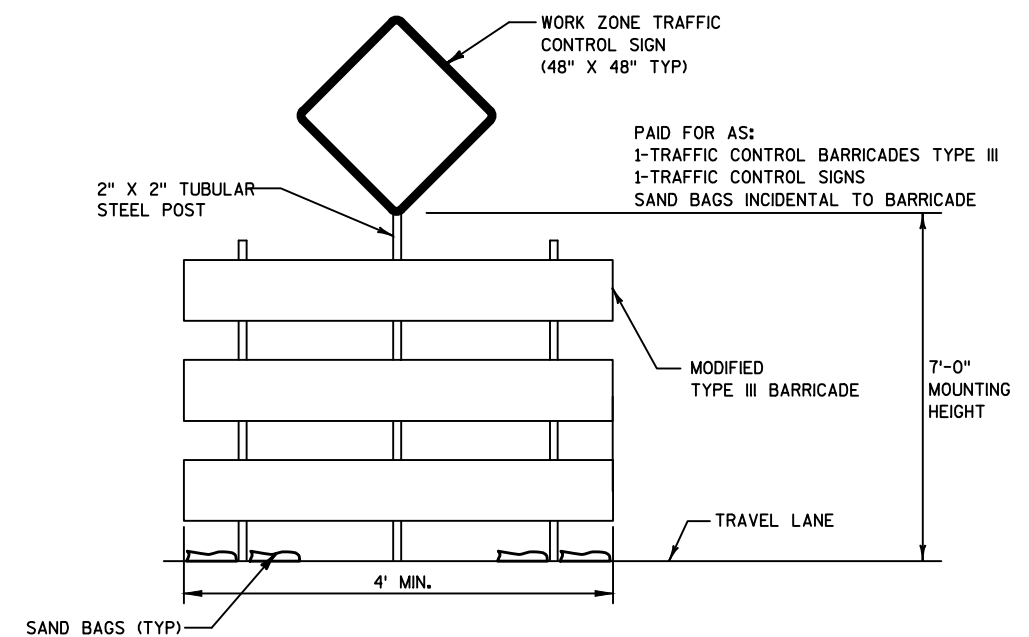






**TYPICAL TEMPORARY TRAFFIC CONTROL SIGN
MOUNTING ON FIXED SUPPORT**

LONG TERM
7 DAYS OR MORE



**TYPICAL TEMPORARY TRAFFIC CONTROL DETAIL
MOUNTING ON TEMPORARY SUPPORT**

LEGEND

-  WORK ZONE THIS STAGE
-  TRAFFIC CONTROL DRUM WITH LIGHT TYPE C
-  TRAFFIC CONTROL BARRICADE TYPE III WITH LIGHTS TYPE A AND ATTACHED SIGN
-  TEMPORARY FENCE
-  SIGN ON PERMANENT SUPPORT

UNION PACIFIC RAILROAD

R/W

LANE
CLOSEDR11-2-L
48"x30"

PLE

FENCE ACCESS GATE REQUIRED
(INCIDENTAL TO TEMPORARY FENCE)LANE
CLOSEDR11-2-L
48"x30"

TLE

MOVE AND REPLACE BARRICADE AT THE START
AND END OF EACH WORKDAY

USH 45 / IH 41 SB

USH 45 / IH 41 NB

CONSTRUCTION
TRUCKS
KEEP RIGHTSEE FIXED MESSAGE SIGN
DETAILRUSS DARROW
PARKING LOT DRIVEWAYTRUCKS
ENTERING
&
LEAVINGW8-6A
48"x48"

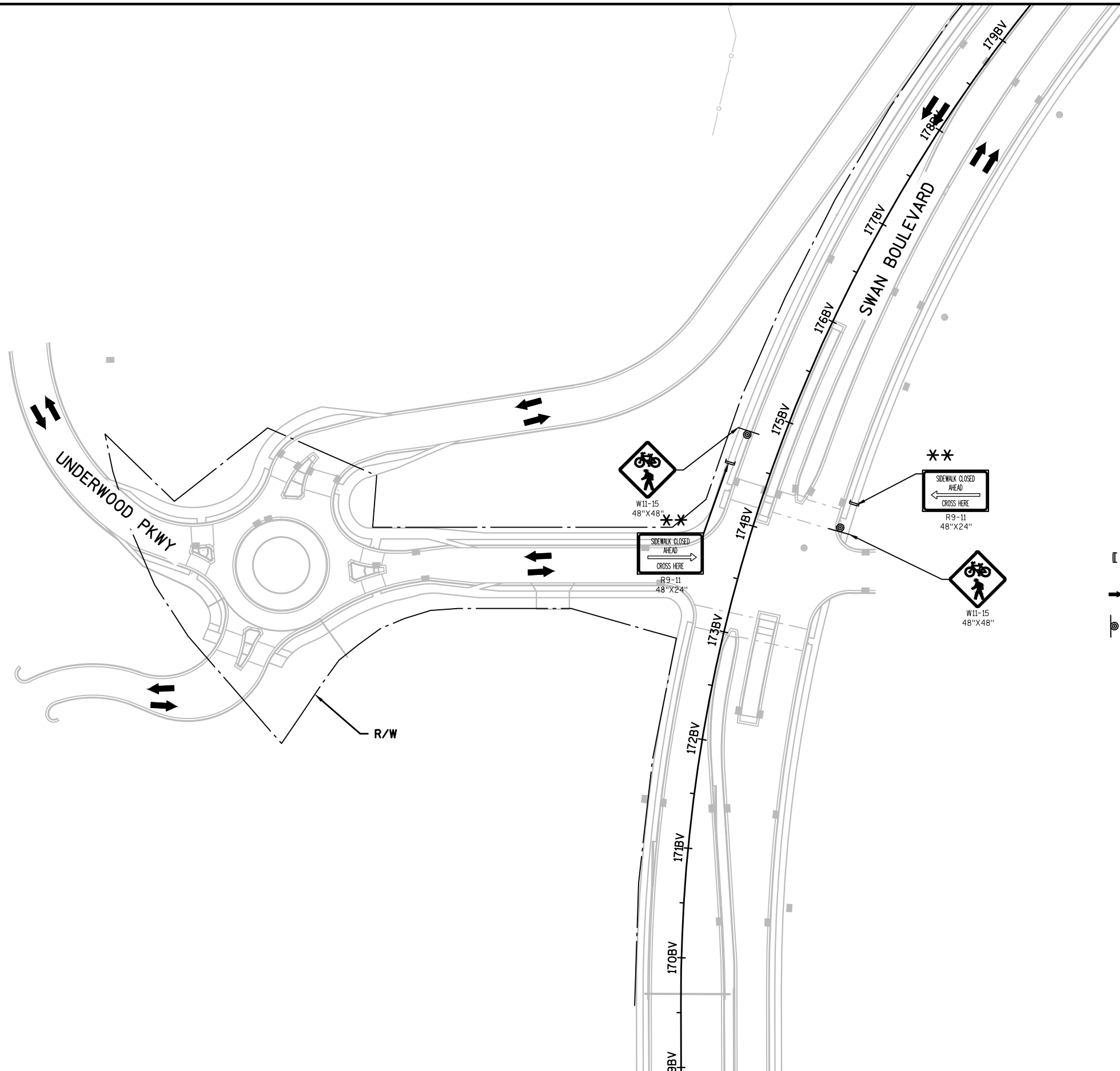
500'

TRUCKS
ENTERING
&
LEAVINGW8-6A
48"x48"

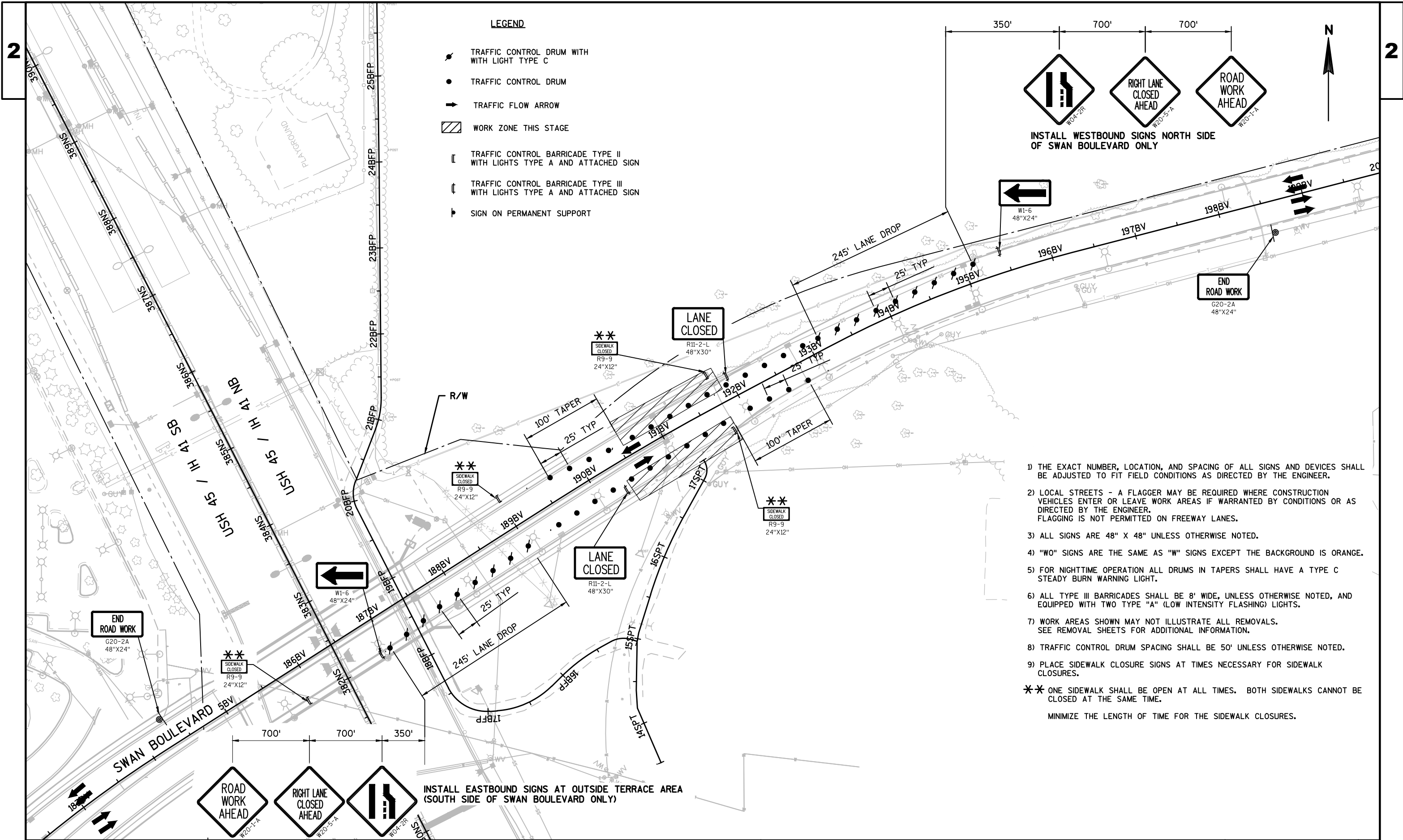
500'

STH 100 / MAYFAIR RD

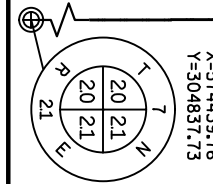
RUSS DARROW PARKING LOT



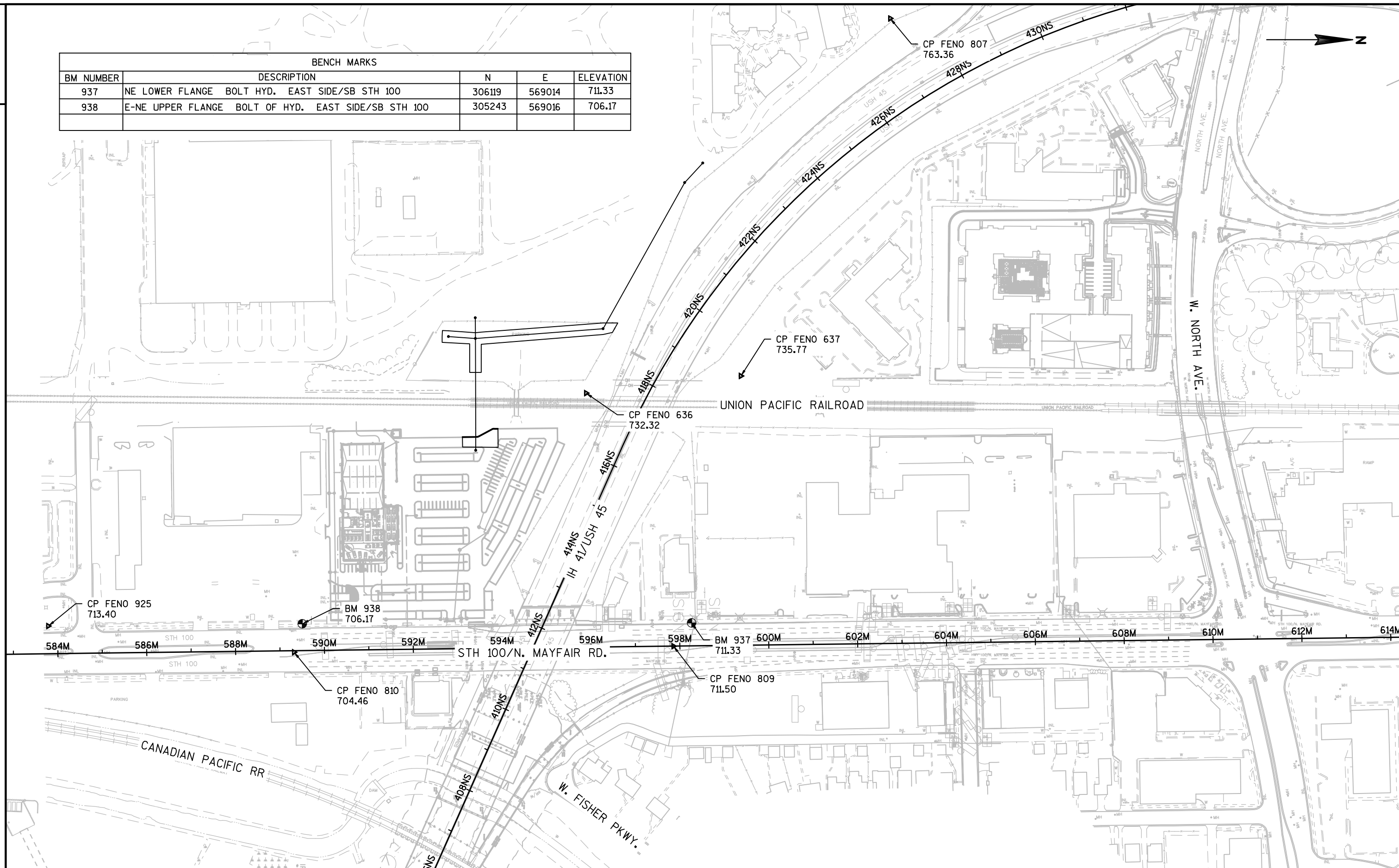
- LEGEND**
- TRAFFIC CONTROL BARRICADE TYPE II WITH LIGHTS TYPE A AND ATTACHED SIGN
 - TRAFFIC FLOW ARROW
 - SIGN ON PERMANENT SUPPORT

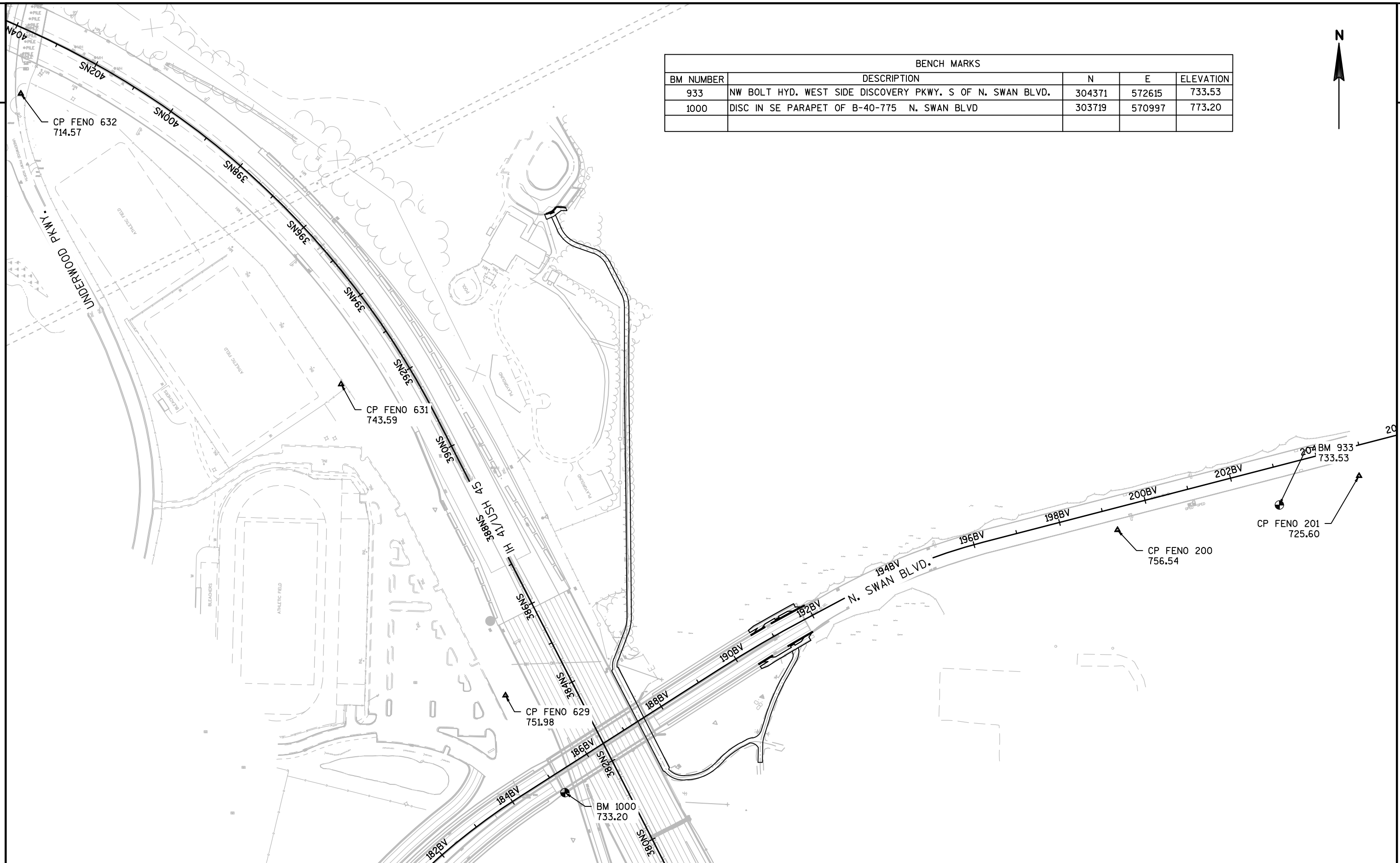


- 1) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
 - 2) LOCAL STREETS - A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE WORK AREAS IF WARRANTED BY CONDITIONS OR AS DIRECTED BY THE ENGINEER. FLAGGING IS NOT PERMITTED ON FREEWAY LANES.
 - 3) ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
 - 4) "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
 - 5) FOR NIGHTTIME OPERATION ALL DRUMS IN TAPERS SHALL HAVE A TYPE C STEADY BURN WARNING LIGHT.
 - 6) ALL TYPE III BARRICADES SHALL BE 8' WIDE, UNLESS OTHERWISE NOTED, AND EQUIPPED WITH TWO TYPE "A" (LOW INTENSITY FLASHING) LIGHTS.
 - 7) WORK AREAS SHOWN MAY NOT ILLUSTRATE ALL REMOVALS. SEE REMOVAL SHEETS FOR ADDITIONAL INFORMATION.
 - 8) TRAFFIC CONTROL DRUM SPACING SHALL BE 50' UNLESS OTHERWISE NOTED.
 - 9) PLACE SIDEWALK CLOSURE SIGNS AT TIMES NECESSARY FOR SIDEWALK CLOSURES.
- *** ONE SIDEWALK SHALL BE OPEN AT ALL TIMES. BOTH SIDEWALKS CANNOT BE CLOSED AT THE SAME TIME.
- MINIMIZE THE LENGTH OF TIME FOR THE SIDEWALK CLOSURES.



BENCH MARKS				
BM NUMBER	DESCRIPTION	N	E	ELEVATION
937	NE LOWER FLANGE BOLT HYD. EAST SIDE/SB STH 100	306119	569014	711.33
938	E-NE UPPER FLANGE BOLT OF HYD. EAST SIDE/SB STH 100	305243	569016	706.17





BENCH MARKS				
BM NUMBER	DESCRIPTION	N	E	ELEVATION
933	NW BOLT HYD. WEST SIDE DISCOVERY PKWY. S OF N. SWAN BLVD.	304371	572615	733.53
1000	DISC IN SE PARAPET OF B-40-775 N. SWAN BLVD	303719	570997	773.20

MMSD SANITARY SEWER ITEMS

CATEGORY	ROADWAY	STRUCTURE	STATION	OFFSET	TO	STATION	OFFSET	SPV.0060.5010	SPV.0060.5011	SPV.0060.5012	SPV.0090.5010	SPV.0090.5011	SPV.0090.5012	SPV.0090.5013	SPV.0090.5014	SPV.0090.5015
								48-INCH SANITARY MANHOLE TYPE A EACH	ABANDONING MMSD SANITARY MANHOLE WITH CONCRETE CAPPING EACH	ABANDONING SANITARY MANHOLE EACH	CASING W/ SANITARY SEWER 20-INCH PVC CARRIER LF	SANITARY SEWER 15-INCH PVC LF	SANITARY SEWER 20-INCH PVC LF	SANITARY SEWER 21-INCH PVC LF	ABANDONING SANITARY SEWER 15-INCH LF	ABANDONING SANITARY SEWER 21-INCH LF
7040	IH 41/USH 45	MH NO.1	0SN+00.00	--		--	--	1	1	--	--	--	--	--	--	--
		MH NO.2	0SN+60.02	--		--	--	1	--	--	--	--	--	--	--	--
		MH NO.3	4SN+36.60	--		--	--	--	1	--	--	--	--	--	--	--
		MH NO.4	7SN+24.86	--		--	--	--	1	--	--	--	--	--	--	--
		MH NO.6	7SN+85.58	--		--	--	--	1	--	--	--	--	--	--	--
		MH NO.5	12SX+51.67	--		--	--	--	1	--	--	--	--	--	--	--
		MH NO.7	12SX+78.66	7.2'RT		--	--	--	1	--	--	--	--	--	--	--
			11SX+36.67	7.5'RT		--	--	--	--	1	--	--	--	--	--	--
			12SX+51.60	7.5'RT		--	--	--	--	1	--	--	--	--	--	--
			0SN+00.00	--	0SN+60.02	--	--	--	--	--	--	--	--	60	--	--
			0SN+60.02	--	4SN+36.60	--	--	--	--	--	--	--	--	377	--	--
			4SN+36.60	--	7SN+24.86	--	--	--	--	--	--	--	--	288	--	--
			7SN+24.86	--	7SN+85.58	--	--	--	--	--	--	61	--	--	--	--
			7SN+24.86	--	12SX+51.67	--	--	--	--	--	194	--	8	--	--	--
			12SX+51.67	--	12SX+78.66	7.2'RT	--	--	--	--	--	--	--	28	--	--
			3SN+72.54	228.7'LT	0SN+00.00	--	--	--	--	--	--	--	--	--	--	428
			7SN+85.58	--	11SX+36.67	7.5'RT	--	--	--	--	--	--	--	--	100	--
			11SX+38.67	7.5'RT	12SX+51.67	7.5'RT	--	--	--	--	--	--	--	--	110	--
			12SX+51.67	7.5'RT	12SX+78.66	7.2'RT	--	--	--	--	--	--	--	--	--	22
			12SX+51.67	7.5'RT	12SX+78.66	--	--	--	--	--	--	--	--	--	--	7
PROJECT TOTALS								7	1	2	194	61	8	753	210	457

SURVEY PROJECT

SPV.0105.0001	
SURVEY	
PROJECT	
1060-34-76	
ROADWAY	LS
PROJECT	1
1	

MOBILIZATION

619.1000	
MOBILIZATION	
EACH	
ROADWAY	
PROJECT	1
1	

WATER

624.0100	
WATER	
MGAL	
ROADWAY	
PROJECT	5
5	

CPM PROGRESS SCHEDULE

108.4400	
CPM	
PROGRESS	
SCHEDULE	
ROADWAY	EACH
PROJECT	1
1	

PAVEMENT CLEANUP

SPV.0075.0001	
PAVEMENT CLEANUP	
PROJECT	
1060-34-76	
ROADWAY	HRS
PROJECT	50
50	

TRAFFIC CONTROL

643.5000	
TRAFFIC CONTROL	
EACH	
ROADWAY	
PROJECT	1
1	

CATEGORY 1000 UNLESS OTHERWISE NOTED

CLEARING AND GRUBBING ITEMS (CONTINUED)						
ROADWAY	STATION	OFFSET	201.0105	201.0205	201.0120	201.0220
			CLEARING	GRUBBING	CLEARING	GRUBBING
			STA	STA	ID	ID
	29+55BFP	LT	--	--	6	6
	29+75BFP	RT	--	--	4	4
	29+77BFP	RT	--	--	4	4
	29+96BFP	RT	--	--	4	4
	30+00BFP	LT	--	--	16	16
	30+02BFP	RT	--	--	3	3
	30+10BFP	RT	--	--	7	7
	30+12BFP	RT	--	--	6	6
	30+20BFP	LT	--	--	8	8
	30+23BFP	RT	--	--	4	4
	30+25BFP	LT	--	--	23	23
	30+30BFP	RT	--	--	8	8
	30+31BFP	RT	--	--	5	5
	30+35BFP	RT	--	--	4	4
	30+40BFP	RT	--	--	8	8
	30+42BFP	RT	--	--	8	8
	30+43BFP	RT	--	--	8	8
	30+75BFP	RT	--	--	6	6
	31+01BFP	RT	--	--	21	21
UNDISTRIBUTED			--	--	80	80
WAUWATOSA DPW LOT						
	0+00SN - 2+00SN	LT/RT	2	2	--	--
	3+00SN - 4+00SN	LT/RT	1	1	--	--
TOTAL			3	3	750	750

EXCAVATION STONE PILES AND STONE FENCES	
205.0300	
EXCAVATION STONE	
PILES AND STONE FENCES	
ROADWAY	CY
PEDESTRIAN PATH	
5	
TOTAL	
5	

REMOVING ASPHALTIC SURFACE	
204.0110	
REMOVING	
ASPHALTIC SURFACE	
ROADWAY	SY
PEDESTRIAN PATH	
55	
RUSS DARROW PARKING LOT	
254	
WAUWATOSA DPW LOT	
1,258	
TOTAL	
1,567	

NOTE: THIS BID ITEM ACCOUNTS FOR ASPHALTIC SURFACES NOT UNDERLAIN BY PROPOSED EXCAVATION.

REMOVING FENCE	
204.0170	
REMOVING FENCE	
ROADWAY	LF
WAUWATOSA DPW LOT	
30	
TOTAL	
30	

REMOVING CURB & GUTTER	
204.0150	
REMOVING	
CURB & GUTTER	
ROADWAY	LF
SWAN BLVD	
207	
PEDESTRIAN PATH	
59	
RUSS DARROW PARKING LOT	
84	
TOTAL	
350	

REMOVING SIDEWALK	
204.0155	
REMOVING CONCRETE	
SIDEWALK	
ROADWAY	SY
SWAN BOULEVARD	
176	
TOTAL	
176	

CATEGORY 1000 UNLESS OTHERWISE NOTED

<u>REMOVE WOOD POLES</u>			
			SPV.0195.0001
			REMOVE
			WOOD
			POLES
ROADWAY	STATION	OFFSET	TON
PEDESTRIAN PATH			
	21+10BFP	LT	
	22+50BFP	LT	
	25+48BFP	LT	
	26+90BFP	LT	
	28+20BFP	LT	
	TOTAL WEIGHT		2
<u>UNDISTRIBUTED</u>			
			2
TOTAL			4

SAWING ITEMS		
		690.0150
		SAWING
		ASPHALT
ROADWAY	LF	LF
SWAN BOULEVARD		
	--	215
PEDESTRIAN PATH		
	--	89
RUSS DARROW PARKING LOT		
	--	80
WAUWATOSA DPW LOT		
	938	--
TOTAL		938
		384

TRAFFIC CONTROL ITEMS													
		643.0300		643.0410		643.0420		643.0705		643.0715		643.0900	
		TRAFFIC		TRAFFIC		TRAFFIC		TRAFFIC		TRAFFIC		TRAFFIC	
		CONTROL		CONTROL		CONTROL		CONTROL		CONTROL		CONTROL	
		BARRICADES		BARRICADES		BARRICADES		LIGHTS		LIGHTS		LIGHTS	
		TYPE II		TYPE III		TYPE A		TYPE C		TYPE C		TYPE C	
ROADWAY	STAGE DURATION	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS
SWAN BOULEVARD													
	10	46	460	6	60	4	40	20	200	20	200	20	200
RUSS DARROW PARKING LOT													
	64	10	640	--	--	3	192	6	384	10	640	4	256
UNDISTRIBUTED													
	64	10	640	2	128	2	128	2	128	10	640	2	128
TOTAL			1,740		188		360		712		1,480		584

TRAFFIC CONTROL SIGNS FIXED MESSAGE					
			643.1000		
			TRAFFIC		
			CONTROL		
			SIGN SIZE		
			SIGNS		
			FIXED MESSAGE		
ROADWAY	SIGN NO.	NUMBER REQUIRED	W X H FT X FT	SF	SIGN MESSAGE
RUSS DARROW PARKING LOT					
	100	1	3.0 X 3.0	9.00	CONSTRUCTION TRUCKS KEEP RIGHT
TOTALS				9.00	

CATEGORY 1000 UNLESS OTHERWISE NOTED

EROSION CONTROL ITEMS

	628.1504	628.1520	628.1905	628.1910	628.2004	628.2023	628.7005	628.7015	628.7504	628.7555	628.7560
	MOBILIZATIONS		EROSION		EROSION		INLET		TEMPORARY	CULVERT	TRACKING
	SILT	SILT	EROSION	EMERGENCY	MAT	MAT	PROTECTION	PROTECTION	DITCH	PIPE	PADS
	FENCE	MAINTENANCE	CONTROL	CONTROL	CLASS I	CLASS II	TYPE A	TYPE C	CHECKS	CHECKS	
ROADWAY	LF	LF	EACH	EACH	SY	SY	EACH	EACH	LF	EACH	EACH
SWAN BLVD	--	--	--	--	--	1,008	2	4	10	1	1
RUSS DARROW PARKING LOT	--	--	--	--	518	--	--	--	--	--	--
WAUWATOSA DPW LOT	439	439	--	--	934	--	--	--	--	--	1
PEDESTRIAN PATH	--	--	--	--	1,367	--	--	--	--	--	1
UNDISTRIBUTED	200	200	3	3	300	250	--	--	10	2	1
TOTAL	639	639	3	3	3,119	1,258	2	4	20	3	4

RESTORATION ITEMS

	SPV.0085.0001	SPV.0180.0001	629.0210	630.0170	631.0300	631.1000
	SEEDING		FERTILIZER	SEEDING	SOD	SOD
	MIXTURE	TOPSOIL	TYPE	MIXTURE	WATER	LAWN
	NATIVE SEED	SPECIAL	B	NO. 70	MGAL	SY
ROADWAY	LB	SY	CWT	LB		
SWAN BOULEVARD	4	1,008	1.0	--	--	--
PEDESTRIAN PATH	--	1,584	1.0	5	5	216
RUSS DARROW PARKING LOT	--	518	0.5	2	--	--
WAUWATOSA DPW LOT	--	934	0.5	3.5	--	--
UNDISTRIBUTED	1	--	0.5	3	5	50
TOTAL	5	4,044	3.5	13.5	10	266

ASPHALTIC SURFACE

	465.0105
	ASPHALTIC
	SURFACE
ROADWAY	TON
PEDESTRIAN PATH	440
RUSS DARROW PARKING LOT	58
WAUWATOSA DPW LOT	286
TOTAL	784

FENCING ITEMS

	616.0206	SPV.0090.0001
	FENCE	FENCE
	CHAIN LINK	TEMPORARY
	6-FT	6-FT
ROADWAY	LF	LF
WAUWATOSA DPW LOT	30	--
UNDISTRIBUTED	--	500
TOTAL	30	500

CATEGORY 1000 UNLESS OTHERWISE NOTED

BASE AGGREGATE ITEMS		
305.0120 BASE AGGREGATE DENSE 1 1/4-INCH		
ROADWAY	TON	COMMENT
PEDESTRIAN PATH	864	UNIT WEIGHT CONVERSION: 2TON/CY
RUSS DARROW PARKING LOT	113	UNIT WEIGHT CONVERSION: 2TON/CY
WAUWATOSA DPW SITE	572	UNIT WEIGHT CONVERSION: 2TON/CY
UNDISTRIBUTED	150	
TOTAL	1,699	

CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA

602.0515 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA		
ROADWAY	SF	COMMENT
SWAN BLVD	40	SEE PLAN DETAIL FOR LOCATION
PEDESTRIAN PATH	20	SEE PLAN DETAIL FOR LOCATION
	60	

CONCRETE SIDEWALK

602.0410 CONCRETE SIDEWALK 5-INCH	
ROADWAY	SF
SWAN BLVD	2,480
PEDESTRIAN PATH	498
	2,978

CURB & GUTTER ITEMS

416.0610 601.0319 601.0331 CONCRETE CONCRETE DRILLED CURB & GUTTER CURB & GUTTER TIE BARS 19-INCH 31-INCH				
ROADWAY	EACH	LF	LF	COMMENT
SWAN BLVD	69	--	207	FIELD ENGINEER LOCATE
PEDESTRIAN PATH	--	--	59	FIELD ENGINEER LOCATE
RUSS DARROW PARKING LOT	--	90	--	FIELD ENGINEER LOCATE
TOTAL	69	90	266	

PAVEMENT MARKING ITEMS

	646.1020	646.6220	646.7520	646.9000
		MARKING	MARKING	
	MARKING	YIELD	CROSSWALK	MARKING
	LINE	LINE	EPOXY	REMOVAL
	EXPOXY	EPOXY	LADDER PATTERN	LINE
	4-INCH	18-INCH	24-INCH	4-INCH
	YELLOW	WHITE	WHITE	
ROADWAY	LF	EACH	LF	LF
PEDESTRIAN PATH				
	1,790	--	--	--
SWAN BOULEVARD				
	--	26	144	250
TOTAL	1,790	26	144	250

CATEGORY 1000 UNLESS OTHERWISE NOTED

EARTH WORK SUMMARY							
Division	From/To Station	Location	205.0100 Excavation Common (CY) (1)	205.0501.S Excavation, Hauling and Disposal of Petroleum- Contaminated Soil (TON) (4)	Unexpanded Fill (CY)	Expanded Fill (CY) (2)	Mass Ordinate +/- (CY) (3)
						Factor 1.10	
PEDESTRIAN PATH	15+00BFP TO 31+16.56BFP 14+50STP TO 17+23STP	BFP STP	545 20	0 0	36 162	40 178	505 -158
RUSS DARROW PARKING LOT	Bored Soil and East Bore Pit Area	SN	0	595	0	0	0
TOTAL			565	595	198	218	347

NOTES:

1) SALVAGED AND USUSABLE PAVEMENT MATERIAL IS INCLUDED IN COMMON EXCAVATION (CUT VOLUME).

2) EXPANDED FILL FACTOR = 1.10.

3) THE MASS ORDIANTE + OR - QUANTITY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

4) EXCAVATION, HAULING AND DISPOSAL OF PETROLEUM-CONTAMINATED SOIL IS PAID FOR BY THE TON. THIS QUANTITY WAS CALCULATED BY MULTIPLYING THE QUANTITY IN CUBIC YARDS (350 CY) BY THE CONVERSION FACTOR OF 1.7 TONS PER CUBIC YARD. ITEM NUMBER 205.0501.S

CATEGORY 1000 UNLESS OTHERWISE NOTED

TYPE II PERMANENT SIGNING -

1060-34-76 North Leg Prep Work

SIGN NO.	SIGN CODE & SIZE	SIGN MESSAGE	SIGN SIZE W x H [IN.] x [IN.]	637.2210 SIGN TYPE II REFLECTIVE H [SF]	637.2230 SIGN TYPE II RELLECTIVE F [SF]	638.2602 REM SIGN TYPE II [EA]	638.3000 REM SMALL SIGN SUP [EA]	638.2102 MOVING SIGN TYPE II [EA]	634.0618 WOOD POSTS 4" X 6" X 18' [EA]	634.0816 POSTS TUBULAR STEEL 2" X 2" X 16' [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
1	W11-15(2S)		30 X 30		6.250					1		
1A	W16-9P(2S)		24 X 12		2.000						1	
2	R1-5L(2S)		30 X 30	6.250						1		4 FOOT MOUNTING HEIGHT
3	W11-15(2S)		30 X 30		6.250							TYPE I POLE - SEE RRFB QUANTITIES
3A	W16-7L(2S)		24 X 12		2.000						3	
3B	R10-25		9 X 12	0.750							3	
4	R1-5L(2S)		30 X 30	6.250						1		
5	W11-15(2S)		30 X 30		6.250					1		
5A	W16-9P(2S)		24 X 12		2.000						5	
6	W1-6		24 X 12		2.000					1		FOR TRAIL - BIKE SIZE SIGN
7	W1-6		24 X 12		2.000					1		FOR TRAIL - BIKE SIZE SIGN
8	W3-1		18 X 18		2.250					1		FOR TRAIL - BIKE SIZE SIGN
9	R1-1		18 X 18	3.730						1		
10	W1-5L		18 X 18		2.250					1		FOR TRAIL - BIKE SIZE SIGN
11	W3-1		18 X 18		2.250					1		FOR TRAIL - BIKE SIZE SIGN
12	R1-1		18 X 18	3.730						1		FOR TRAIL - BIKE SIZE SIGN
13	NONE	TO UNDERWOOD PKWY	36 18	4.500						2		FOR TRAIL - BIKE SIZE SIGN
		TILT ARROW RIGHT										
14	W11-15(2S)		30 X 30		6.250							TYPE I POLE - SEE RRFB QUANTITIES
14A	W16-7L(2S)		24 X 12		2.000						14	
14B	R10-25		9 X 12	0.750							14	
15	R7-1D							1				PLACE UNDER BIKE LANE SIGN
16	W6-2						1	1				MOVE TO LIGHT POLE
17	W11-15(2S)		30 X 30		6.250							
17A	W16-7R(2S)		24 X 12		2.000						17	
18	W11-15(2S)		30 X 30		6.250						3	
18A	W16-7R(2S)		24 X 12		2.000						18	
19	W3-1		18 X 18		2.250					1		
20	W7-5		18 X 18		2.250					1		
21	R1-1		18 X 18	3.730						1		
22	R1-1		18 X 18	3.730						1		
UNDISTRIBUTED				--	2.500	1			1	4	--	--
TOTALS				33.420	67.250	1	1	2	1	21	--	--

Rectangular Rapid Flash Beacon - MISC QUANTITIES			1060-34-76 North Leg Prep work
LOCATION		Rectangular Rapid	Rectangular Rapid
		Flash Beacon	Flash Beacon
		(RRFB) System - Swan Blvd Eastbound	(RRFB) System - Swan Blvd Westbound
		L.S	L.S
		SPV.0105.0002	SPV.0105.0003
Swan Blvd Eastbound		1	
Swan Blvd Westbound			1

TOTAL		1	1
-------	--	---	---

R/W PROJECT NUMBER 1060-33-26	SHEET NUMBER	TOTAL SHEETS
FEDERAL PROJECT NUMBER 1060-33-26	4.1	
PLAT OF RIGHT-OF-WAY REQUIRED FOR I-41 / USH 45 SWAN BLVD. TO BURLEIGH STREET MILWAUKEE COUNTY		
CONSTRUCTION PROJECT NUMBER 1060-33-84 1060-34-84 1060-34-85 1060-34-74 1060-33-83 1060-33-86 1060-35-85 1060-34-76		

CONVENTIONAL ABBREVIATIONS					
ACCESS RIGHTS	AR	REEL	R.		
ACRES	AC.	REFERENCE LINE	RL		
AND OTHERS	ET.AL.	RELEASE OF RIGHTS	ROR		
CENTERLINE	CL	REMAINING	REM.		
CERTIFIED SURVEY MAP	CSM	RIGHT-OF-WAY	R/W		
CORNER	COR.	SECTION	SEC.		
DOCUMENT	DOC.	STATION	STA.		
EASEMENT	EASE.	TEMPORARY LIMITED EASEMENT	TLE		
IMAGE	I.	VOLUME	V.		
HIGHWAY EASEMENT	H.E.	CURVE DATA			
LAND CONTRACT	LC	LONG CHORD	LCH		
MONUMENT	MON.	LONG CHORD BEARING	LCB		
PAGE	P.	RADIUS	R		
PERMANENT LIMITED EASEMENT	PLE	DEGREE OF CURVE	D		
PROPERTY LINE	PL	CENTRAL ANGLE OR DELTA	DELTA		
RECORDED AS	(100')	LENGTH OF CURVE	L		
		TANGENT	TAN		

CONVENTIONAL SYMBOLS		
FOUND IRON PIPE/PIN	IF (1" UNLESS NOTED)	PROPOSED R/W LINE
R/W MONUMENT	• (SET)	EXISTING H.E. LINE
R/W STANDARD	▲ (SET)	PROPERTY LINE
SIGN	ISIGN	LOT & TIE LINES
SECTION CORNER MONUMENT	⊙	SLOPE INTERCEPTS
SECTION CORNER SYMBOL	⊙	CORPORATE LIMITS
FEE (HATCH VARIES)	⊙	ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)
TEMPORARY LIMITED EASEMENT	⊙	ACCESS RESTRICTED (BY ACQUISITION)
PERMANENT LIMITED EASEMENT	⊙	NO ACCESS (BY STATUTORY AUTHORITY)
R/W BOUNDARY POINT	⊙	SECTION LINE
PARCEL NUMBER	⊙	QUARTER LINE
UTILITY PARCEL NUMBER	⊙	SIXTEENTH LINE
SIGN NUMBER (OFF PREMISE)	⊙	EXISTING CENTERLINE
BUILDING	⊙	PROPOSED REFERENCE LINE
	⊙	PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS		
WATER	—W—	
GAS	—G—	
TELEPHONE	—T—	
OVERHEAD	—OH—	
TRANSMISSION LINES	—E—	
ELECTRIC	—TV—	
CABLE TELEVISION	—FO—	
FIBER OPTIC	—SAN—	
SANITARY SEWER	—SS—	
STORM SEWER	—SS—	
NON		
COMPENSABLE		
POWER POLE	⊙	⊙
TELEPHONE POLE	⊙	⊙
UTILITY PEDESTAL	⊙	⊙
ELECTRIC TOWER	⊙	⊙

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, MILWAUKEE COUNTY, NAD83 (2007) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL ¾" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

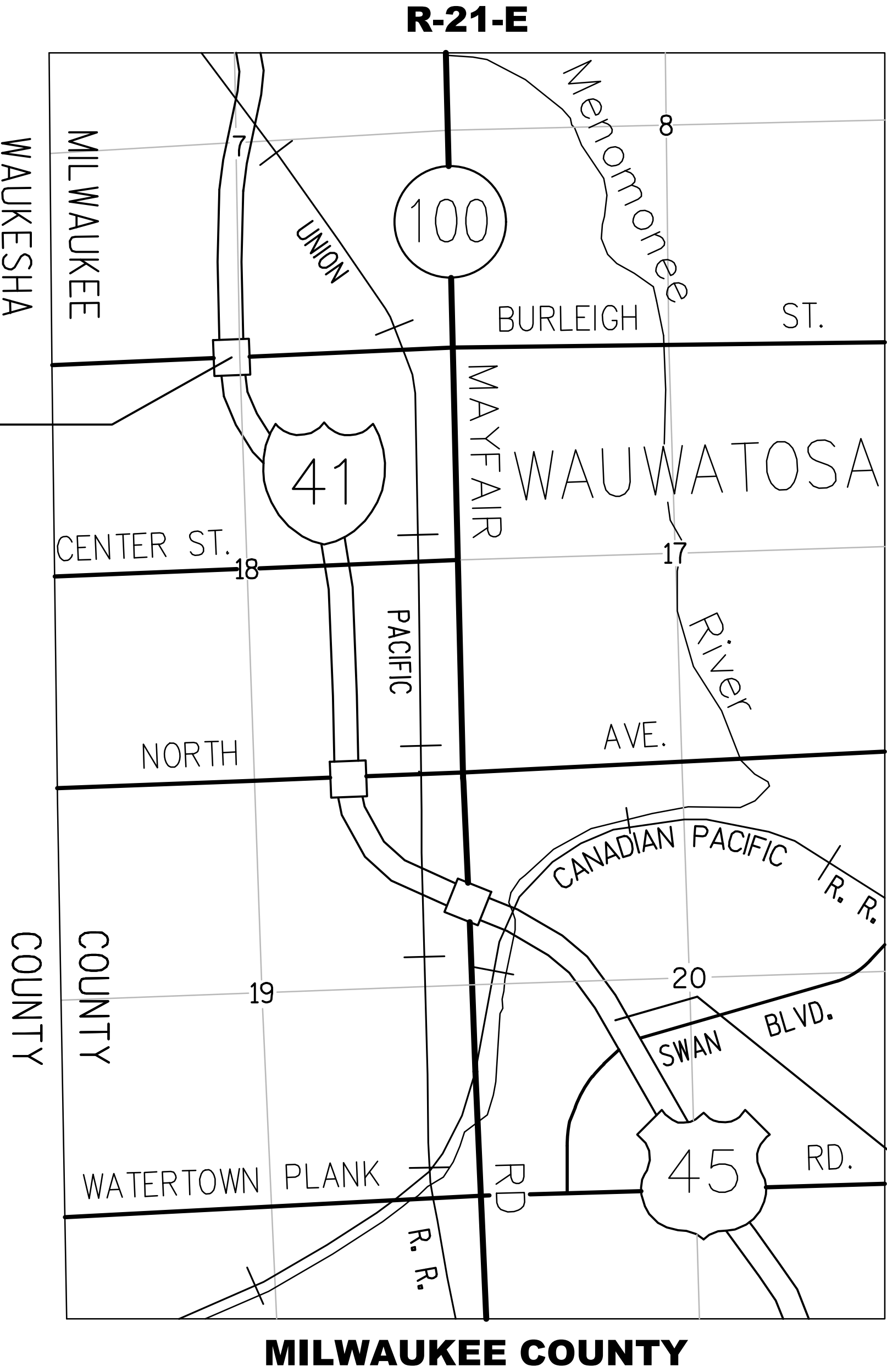
RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

END RELOCATION ORDER
SECTION LINE

STA 492+06.77
1.59' SOUTH AND 91.13' WEST
OF THE SOUTH CORNER OF
SECTION 7, T-7-N, R-21-E
Y=312723.00
X=566254.57



T-7-N

BEGIN RELOCATION ORDER

STA 384+00.00
1931.52' EAST AND 830.17' SOUTH
OF THE WEST CORNER OF
SECTION 20, T-7-N, R-21-E
Y=303969.98
X=571013.46

SCALE 0 .5MI. 1MI.
LAYOUT
TOTAL NET LENGTH OF CENTERLINE = 2.05 MI.

REVISION DATE
07-15-2014
09-24-2014
04-02-2015
06-11-2015
10-27-2016
10-31-2019

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

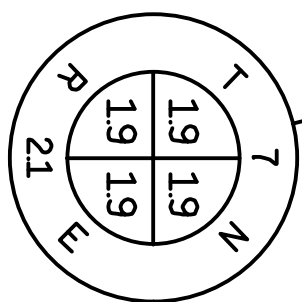
APPROVED FOR THE DEPARTMENT

DATE: 11-07-2013 *Robert A. Duffek*
(Signature)

E

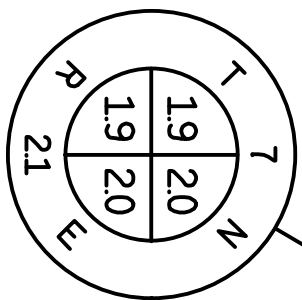
4

SCHEDULE OF LANDS & INTERESTS REQUIRED				OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.			AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.								
				SF = SQUARE FEET		* DENOTES AREAS COMPUTED									
PARCEL NUMBER	SHEET NUMBER	OWNER	INTEREST REQUIRED	TOTAL ACRES	NEW	EXISTING	TOTAL	REMAINING ACRES	TEMP. ACRES	PERM. ACRES	PARCEL NUMBER				
41(5)	4.16	LORRAINE L. POZAYT	TLE	0.125	0.000	0.000	0.000	0.125	0.005	0.000	41(5)				
42(5)	4.16	RICHARD & LAUREN GIVENS	TLE	0.251	0.000	0.000	0.000	0.251	0.005	0.000	42(5)				
43(5)	4.16	DAVID W. & NORMA I. BROADEN	TLE	0.251	0.000	0.000	0.000	0.251	0.005	0.000	43(5)				
44(5)	4.16	ROBERT R. & CAROLE A. HOERIG	TLE	0.251	0.000	0.000	0.000	0.251	0.002	0.000	44(5)				
45(5)	4.16	WANDA L. MORRISON	TLE	0.125	0.000	0.000	0.000	0.125	0.003	0.000	45(5)				
46(5)	4.16	GREGORY A. & JOAN M. BLANEY	TLE	0.125	0.000	0.000	0.000	0.125	0.004	0.000	46(5)				
47(5)	4.16, 4.18	DANIEL ANDERSON & APEU ACUIL	TLE	0.125	0.000	0.000	0.000	0.125	0.005	0.000	47(5)				
48(5)	4.16	SG LLC	FEE TLE	0.331	0.001	0.000	0.001	0.330	0.042	0.000	48(5)				
49(6)	4.16	DENNISL. & BARBARA L. WANLESS	TLE	0.386	0.000	0.000	0.000	0.386	0.032	0.000	49(6)				
50(5)	4.18	MICHAEL A. & LINDA J. DOLHUN	TLE	0.125	0.000	0.000	0.000	0.125	0.005	0.000	50(5)				
51(5)	4.18	JUDITH A. & PATRICIA J. ANDERSON	TLE	0.125	0.000	0.000	0.000	0.125	0.005	0.000	51(5)				
52(5)	4.18	RONALD & CAROL H. SCHULLS	TLE	0.125	0.000	0.000	0.000	0.125	0.005	0.000	52(5)				
53(5)	4.18	ROBERT E. & BEVERLY J. GRUDZINSKI	TLE	0.122	0.000	0.000	0.000	0.122	0.005	0.000	53(5)				
54(5)	4.18	GERARD E. & ANN M. STEIN	TLE	0.179	0.000	0.000	0.000	0.179	0.007	0.000	54(5)				
55(5)	4.18	JOSEPH E. & MICHELLE L. ROY	TLE	0.179	0.000	0.000	0.000	0.179	0.007	0.000	55(5)				
56(5)	4.18	JILL JANKA	TLE	0.119	0.000	0.000	0.000	0.119	0.005	0.000	56(5)				
57(5)	4.18	CARL & ELOISE SCHWARZ	TLE	0.119	0.000	0.000	0.000	0.119	0.003	0.000	57(5)				
58(5)	4.21	RICKERT INDUSTRIES INC.	TLE	1.961	0.000	0.000	0.000	1.961	0.080	0.000	58(5)				
59(5)	4.25, 4.26	CITY OF WAUWATOSA	TLE	19.265	0.000	0.000	0.000	19.265	7.500	0.000	59(5)				
60(6)	4.11	RUSS DARROW WAUWATOSA REAL ESTATE LLC	FEE PLE TLE	4.848	0.163	0.000	0.163	4.685	0.960	0.183	60(6)				
61(5)	4.11	G&I V III P & S CENTER LLC	TLE	5.238	0.000	0.000	0.000	5.238	0.122	0.000	61(5)				
62(7)	4.11, 4.12	UNION PACIFIC RAILROAD	HE TLE	VAST	0.604	0.393	0.997	VAST	4.525	0.000	62(7)				
63(6)	4.15	MAY FAIR MANOR APARTMENTS LLC	TLE	3.040	0.000	0.000	0.000	3.040	0.133	0.000	63(6)				
64(5)	4.15	STEPHEN GREEN	TLE	0.151	0.000	0.000	0.000	0.151	0.011	0.000	64(5)				
65(5)	4.15	JUDITH S. KLAPAT	TLE	0.151	0.000	0.000	0.000	0.151	0.011	0.000	65(5)				
66(5)	4.15	DELBERT A. SR. & EVA KOLBERG LIFE ESTATE	TLE	0.151	0.000	0.000	0.000	0.151	0.025	0.000	66(5)				
67(6)	4.15	THOMAS J. & TIFFANY J. SMITH	TLE	0.151	0.000	0.000	0.000	0.151	0.039	0.000	67(6)				
68(5)	4.15	STEVEN C. & SANDRA L. KANTIN	TLE	0.151	0.000	0.000	0.000	0.151	0.009	0.000	68(5)				
69(5)	4.15	WILLIAM F. JR. & MARIA LOUISE SCHWARTZ	TLE	0.199	0.000	0.000	0.000	0.199	0.005	0.000	69(5)				
70(5)	4.11	UNITED FOOD & COMMERCIAL WORKERS UNION	TLE	0.848	0.000	0.000	0.000	0.848	0.074	0.000	70(5)				
71(5)	4.12	CHERYL A. DOHERTY	FEE TLE	0.994	0.020	0.000	0.020	0.974	0.143	0.000	71(5)				
72(5)	4.12	CHERYL PENTLER DOHERTY REAL ESTATE TRUST	TLE	2.913	0.000	0.000	0.000	2.913	0.045	0.000	72(5)				
73(6)	4.12, 4.13	BRE / ESA PROPERTIES LLC	FEE PLE TLE	3.922	0.350	0.000	0.350	3.572	1.007	0.622	73(6)				
74(5)	4.12, 4.13	MAY FAIR PROPERTY PARTNERS LLC	FEE TLE	4.970	0.015	0.000	0.015	4.955	0.565	0.000	74(5)				
75(6)	4.13	W2005 NEW CENTURY HOTEL PORTFOLIO LP	FEE PLE TLE	2.144	0.002	0.000	0.002	2.142	0.262	0.131	75(6)				
76(5)	4.13	DENNY'S REALTY INC.	FEE PLE TLE	1.054	0.055	0.000	0.055	0.999	0.138	0.051	76(5)				
77(6)	4.13	HIGHLANDS OF MAY FAIR CONDOMINIUM	PLE TLE	3.075	*	0.000	0.000	3.075	0.084	0.048	77(6)				
78(5)	4.14	TIMOTHY C. & PAMELA M. LOSEY	TLE	0.138	0.000	0.000	0.000	0.138	0.006	0.000	78(5)				
79(5)	4.14	MICHAEL T. GOLDSMITH	TLE	0.178	0.000	0.000	0.000	0.178	0.018	0.000	79(5)				
80(5)	4.21	M.A.E. MOXY LLC	TLE	0.773	0.000	0.000	0.000	0.773	0.024	0.000	80(5)				
REVISION DATE		06-11-2015	-----	-----	DATE 11-07-2013		HWY: I-41 / USH 45		STATE R/W PROJECT NUMBER		1060-33-26	PLAT SHEET	4.03		
		07-15-2014	-----	-----											
		09-24-2014	-----	-----											
		04-02-2015	-----	-----	COUNTY: MILWAUKEE		CONSTRUCTION PROJECT NUMBER		1060-33-84, 1060-34-84, 1060-33-83, 1060-33-86, 1060-35-85, 1060-34-76						E



Concrete Monument
w/ A Brass Cap
Y 304766.97
X 566424.07

Concrete Monument
w/ A Brass Cap
Y 304800.15
X 569081.94



NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, MILWAUKEE COUNTY, NAD83 (2007) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.
RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.
RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".
FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

WE ENERGIES - ELECTRIC
DOC. 3883521 R. 4145 P. 421
PCL. 1
DOC. 9772564, 9766476
PCL. 60
DOC. 4062459 R. 161 I. 1119
PCL. 60
DOC. 4060779 R. 160 I. 846
PCL. 60
DOC. 3560906
PCL. 60
DOC. 9772565, 9766475
PCL. 61
DOC. 09766480
PCL. 61
DOC. 09771077
PCL. 61
DOC. 3271506 D. 3254 I. 177
PCL. 61

WE ENERGIES - ELECTRIC
NO RECORDED EASEMENT
PCL. 70
DOC. 3883520 R. 4145 I. 419
PCL. 70
DOC. 3909566 R. 4182 I. 498
PCL. 70, EXISTING RIGHTS IN R/W
US SPRINT
DOC. 6463414 R. 2545 P. 1708
PCL. 62

AT&T WISCONSIN
DOC. 3883521 R. 4145 P. 421
PCL. 1
DOC. 4060779 R. 160 I. 846
PCL. 60
DOC. 4062459 R. 161 I. 1119
PCL. 60
DOC. 3560906
PCL. 60
DOC. 3271506 D. 3254 I. 177
PCL. 61
DOC. 09766480
PCL. 61
DOC. 09771077
PCL. 61
DOC. 3883520 R. 4145 I. 419
PCL. 70
DOC. 3909566 R. 4182 I. 498
PCL. 70, EXISTING RIGHTS IN R/W

MILWAUKEE METROPOLITAN SEWERAGE DISTRICT
DOC. 3444956 D. 3507 P. 176
PCL. 60, EXISTING RIGHTS IN R/W
DOC. 3444957 D. 3507 P. 180
PCL. 60
UA 631 - CITY OF WAUWATOSA
UA 632 - WAUWATOSA WATER UTILITY

RL I-41/USH 45
PI STA = 427+95.81
Y = 306429.45
X = 567567.39
PC STA = 416+48.94
PT STA = 436+86.55
DELTA = 65°35'16"
D = 3°13'08"
T = 1146.86'
L = 2037.60'
R = 1780.00'
LCH = 1928.16'
LCB = N33°15'30"W

CITY

OF

SEE SHEET 4.25

SEE SHEET 4.25

SEE SHEET 4.12

SEE SHEET 4.12

SEE SHEET 4.10

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
USH 45	PER DOC 2-R-3973 AN AGREEMENT BETWEEN THE STATE HIGHWAY COMMISSION AND THE CHICAGO & NORTH WESTERN R.R. CO. SIGNED MAY 19, 1961 BEFORE THE PUBLIC SERVICE COMMISSION OF WISCONSIN RELATED TO PROJECTS U 03-1175) & U 03-1187)		
USH 45	1100-01-23	VARIES	1969
STH 100	2032-02-20	120'	2010
STH 100	U058 - 119	120'	1957

PREVIOUS ACCESS CONTROL
1100-01-23

WAUWATOSA

STA.585+07.40 RL STH 100

N00° 41' 49"W

RL STH 100 = SECTION LINE

SEE SHEET 4.10

STA.411+51.40 RL I-41/USH 45
STA.594+69.30 RL STH 100

SEE SHEET 4.10

1329.57'
S00° 41' 49"E

REVISION DATE			
04-02-2015	-----	-----	-----
11-07-2013	06-11-2015	-----	-----
07-15-2014	10-27-2016	-----	-----
09-24-2014	10-31-2019	-----	-----

SCALE, FEET
0 50 100

DATE	11-07-2013
COUNTY:	MILWAUKEE

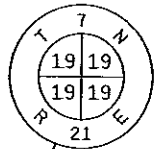
HWY:	I-41 / USH 45
CONSTRUCTION PROJECT NUMBER	1060-33-84, 1060-33-86

STATE R/W PROJECT NUMBER	1060-33-26
PLAT SHEET	4.11

E

WISDOT/CADDS SHEET 75

7093
A Concrete Monument
W/ A Brass Cap
Y 304766.97
X 566424.07

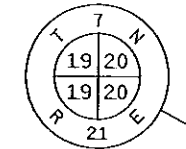


NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, MILWAUKEE COUNTY, NAD83 (2007) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES. RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT. RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD". FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

HIGHWAY	BASIS OF EXISTING RIGHT-OF-WAY	WIDTH	YEAR
WALNUT ROAD	DOC. NO. 4516347	90'	1970
WALNUT ROAD	CSM 8300	90'	2000
113TH STREET	CSM 8300		2000

7094
A Concrete Monument
W/ A Brass Cap
Y 304800.15
X 569081.94



4

4

CITY OF

(59)
WAUWATOSA

(500) WE ENERGIES - ELECTRIC
DOC. 3991267 R. 48 L. 241
PCL. 59
DOC. 3816464 V. 4047 L. 38
PCL. 59
(503) AT&T WISCONSIN
DOC. 3816464 V. 4047 L. 38
PCL. 59

WAUWATOSA

REVISION DATE
10-27-2016

SCALE, FEET
0 50 100

DATE 06-11-2015

HWY: I-41 / USH 45

STATE R/W PROJECT NUMBER 1060-33-26

PLAT SHEET 4.26

COUNTY: MILWAUKEE

CONSTRUCTION PROJECT NUMBER 1060-33-84

FILE NAME : N:\PDS\C3D\ROW\10603326\RW\040426_RP.DWG

PLOT DATE : 10/27/2016 12:15 PM

PLOT BY : KRAUSE, PAUL H

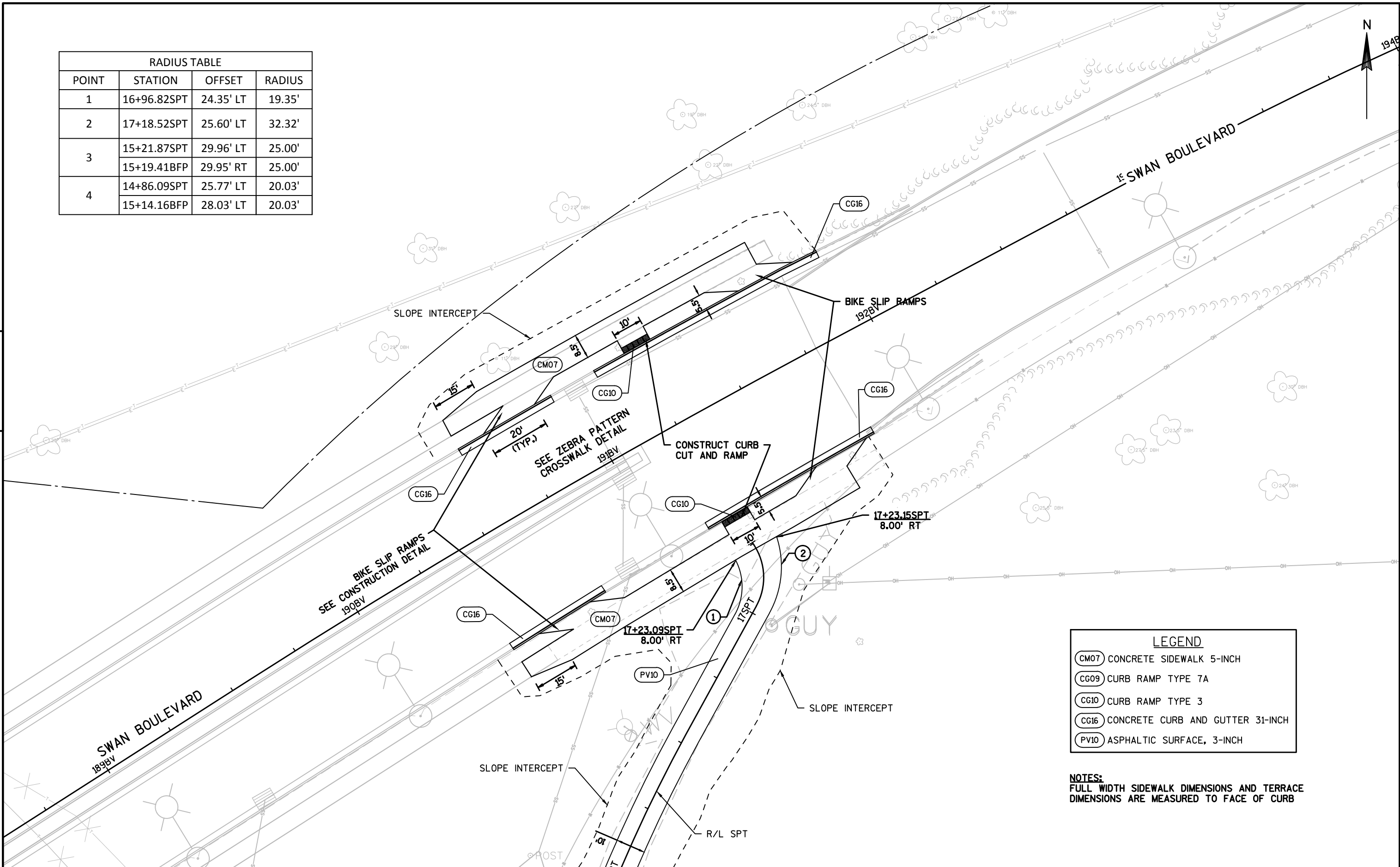
PLOT NAME :

PLOT SCALE : 1:100.XREF

WISDOT/CADDs SHEET 75

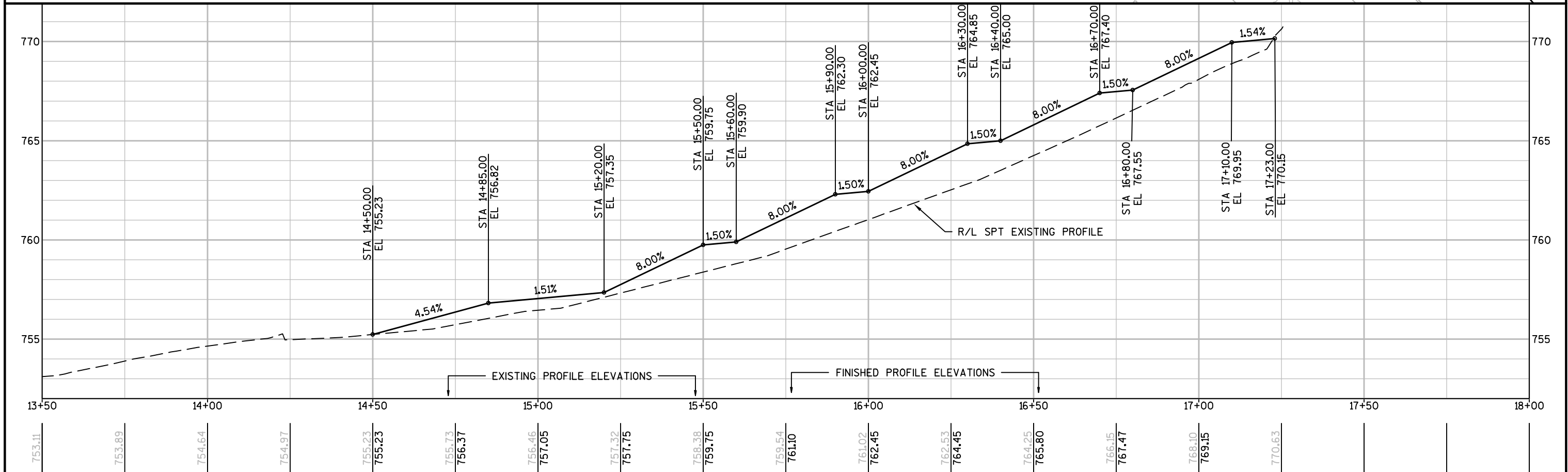
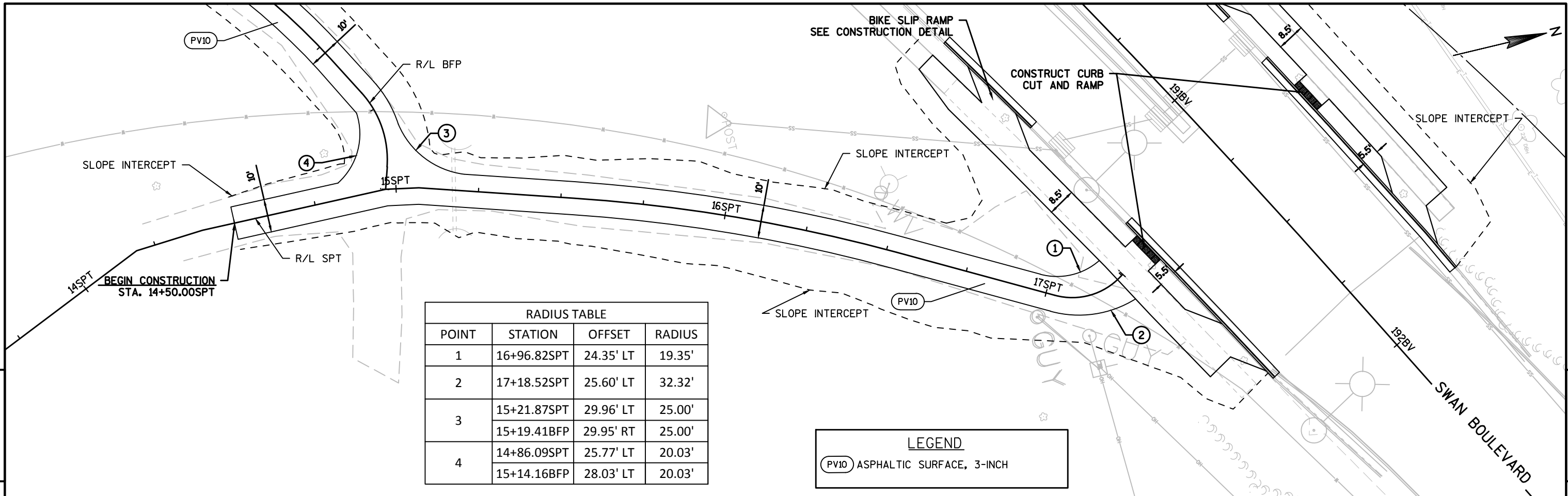
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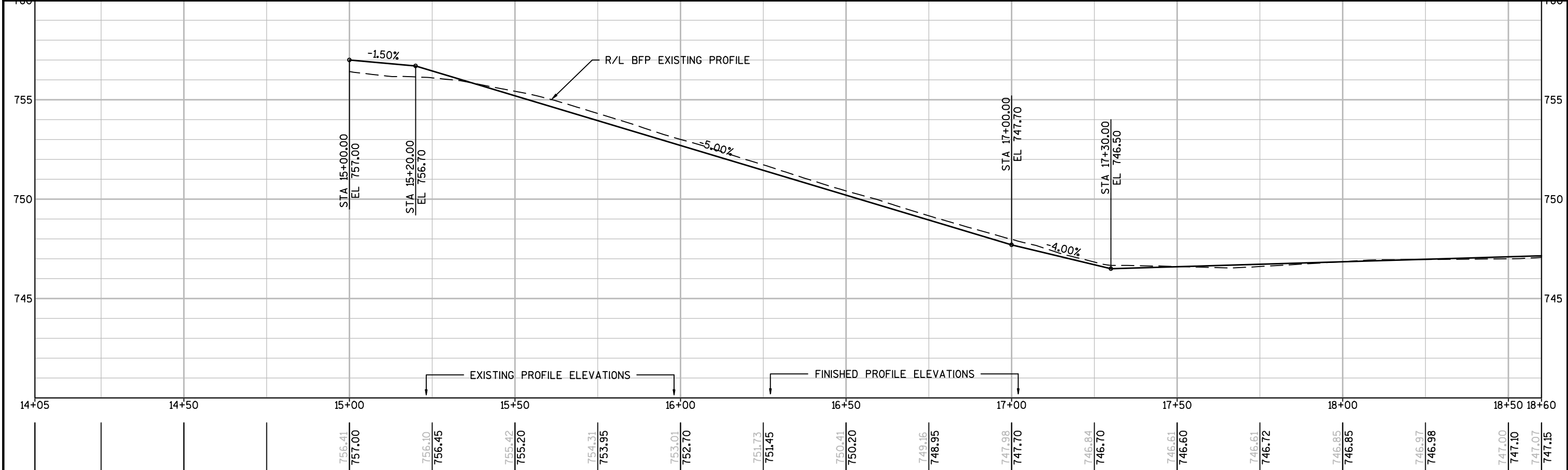
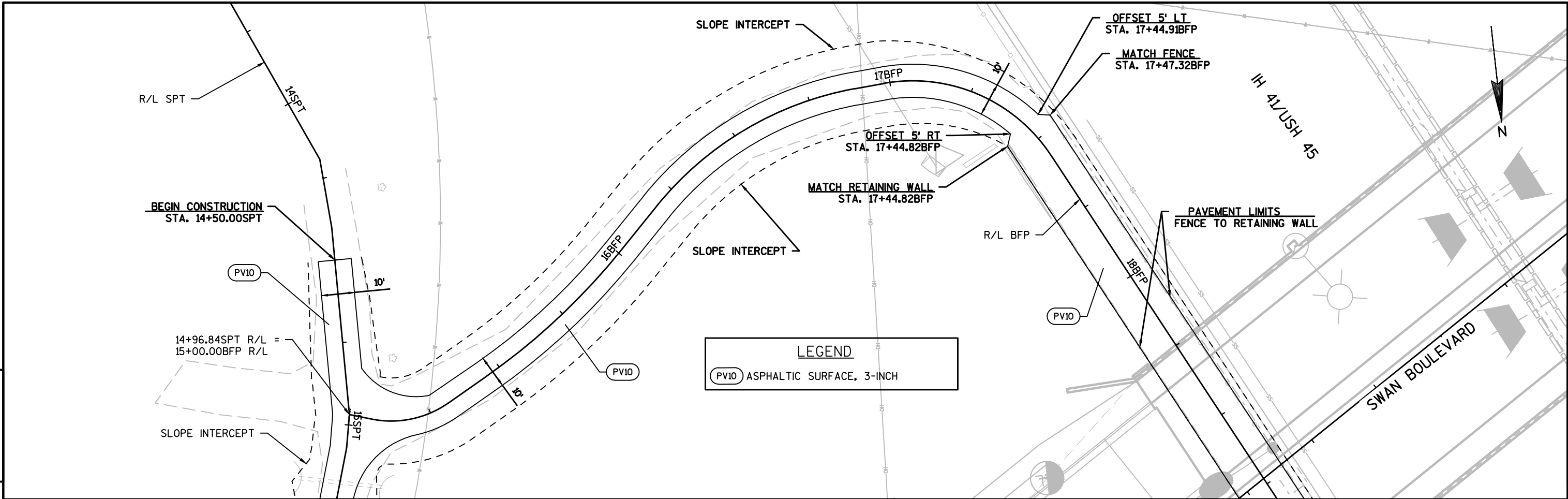
RADIUS TABLE			
POINT	STATION	OFFSET	RADIUS
1	16+96.82SPT	24.35' LT	19.35'
2	17+18.52SPT	25.60' LT	32.32'
3	15+21.87SPT	29.96' LT	25.00'
	15+19.41BFP	29.95' RT	25.00'
4	14+86.09SPT	25.77' LT	20.03'
	15+14.16BFP	28.03' LT	20.03'

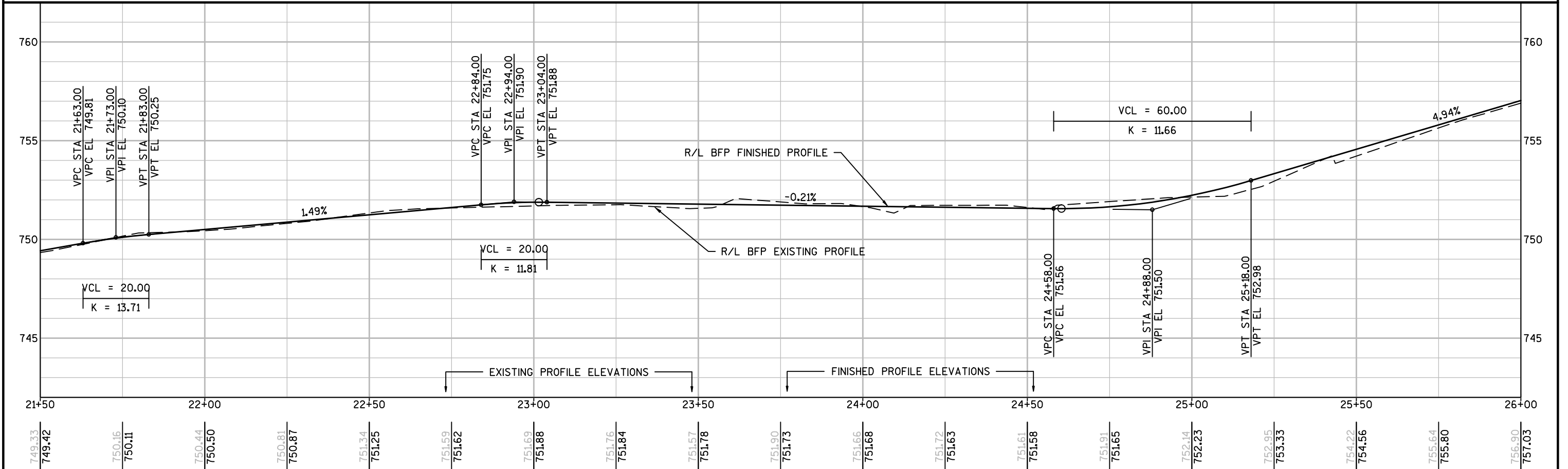
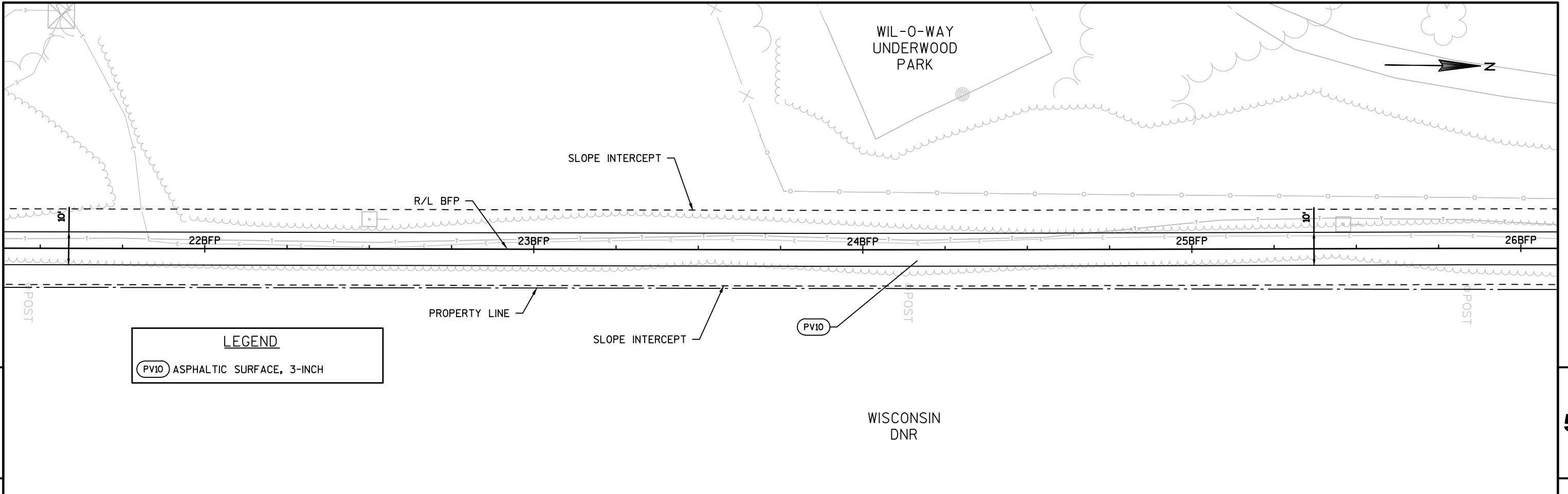


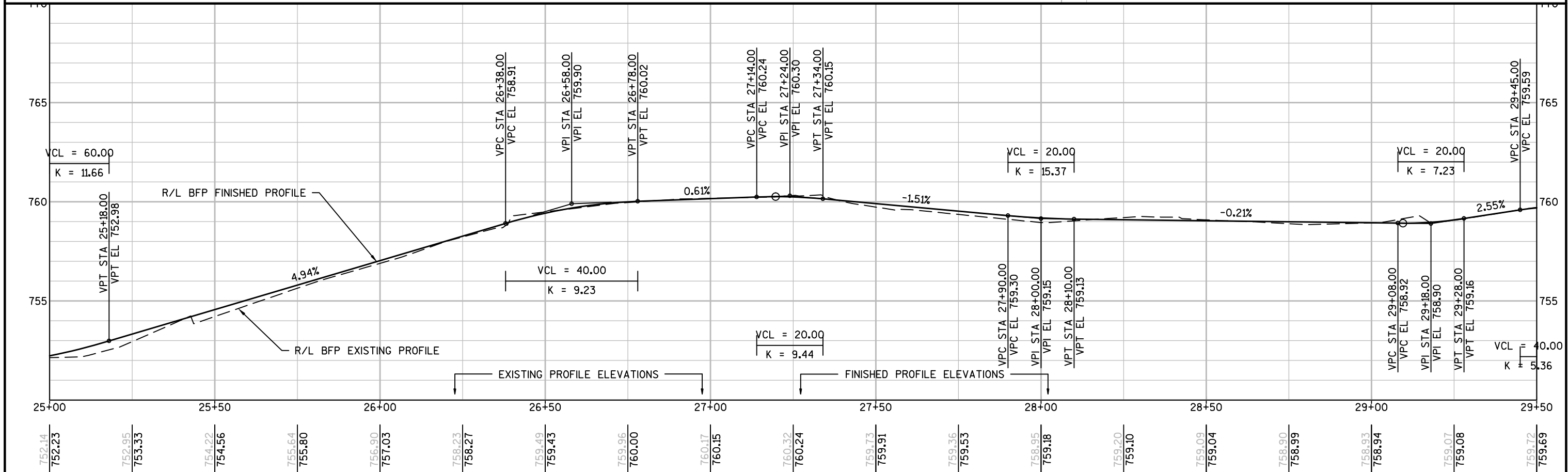
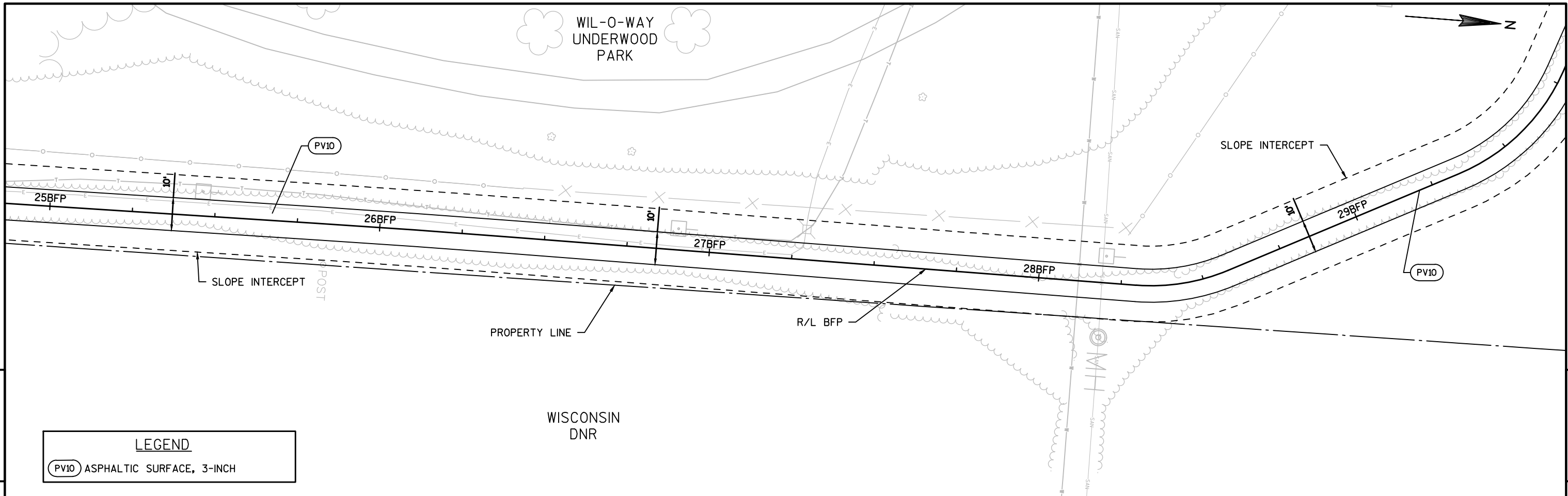
LEGEND	
CM07	CONCRETE SIDEWALK 5-INCH
CG09	CURB RAMP TYPE 7A
CG10	CURB RAMP TYPE 3
CG16	CONCRETE CURB AND GUTTER 31-INCH
PV10	ASPHALTIC SURFACE, 3-INCH

NOTES:
FULL WIDTH SIDEWALK DIMENSIONS AND TERRACE
DIMENSIONS ARE MEASURED TO FACE OF CURB

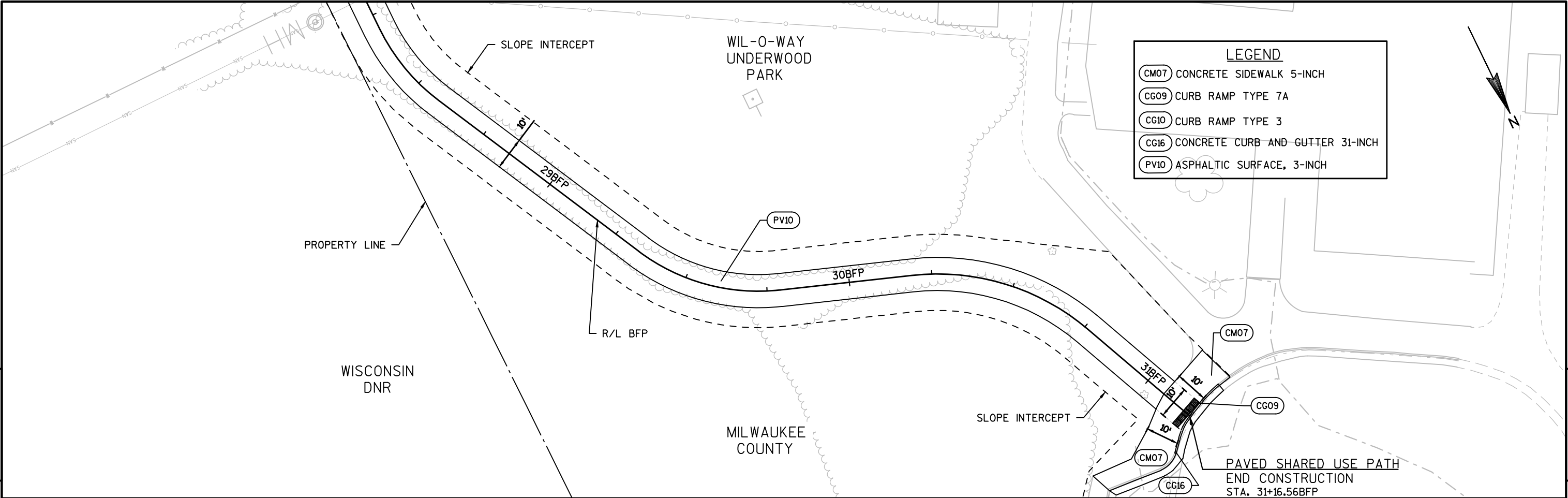




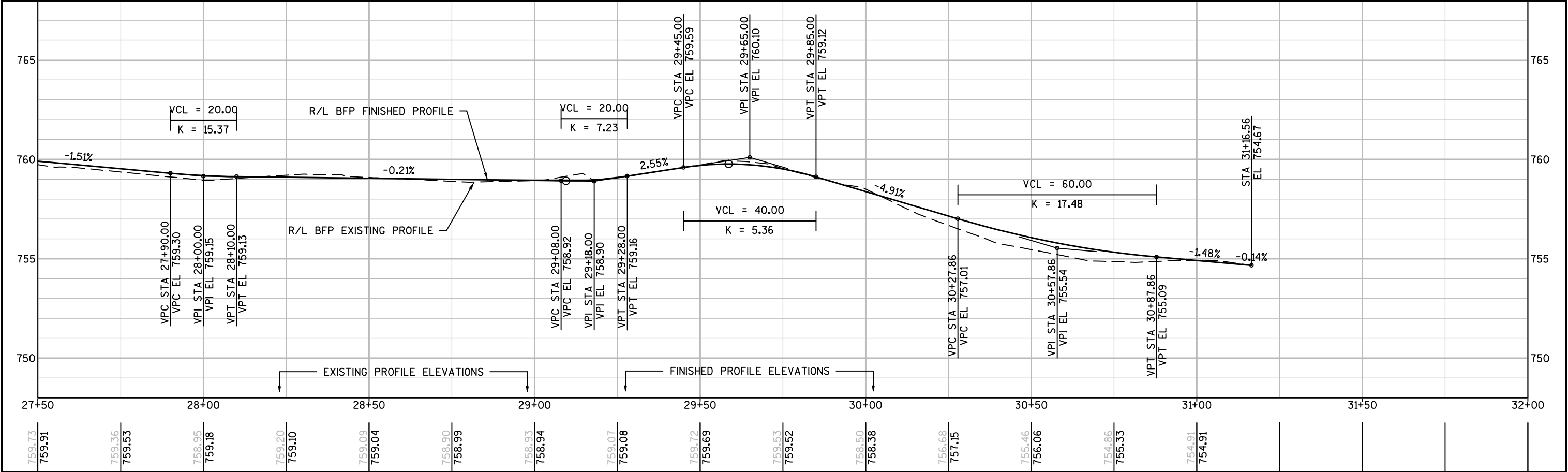




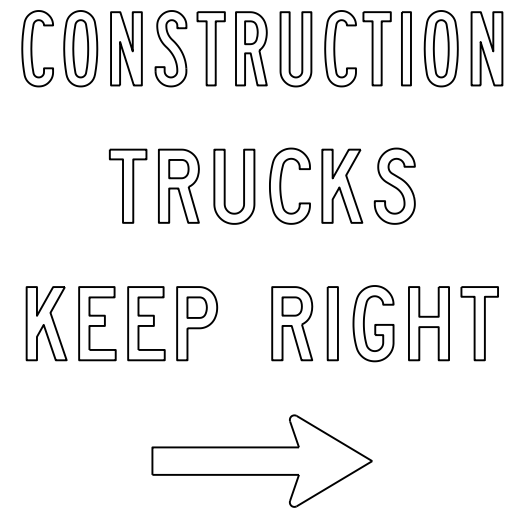
5



5



100



CONSTRUCTION
TRUCKS
KEEP RIGHT

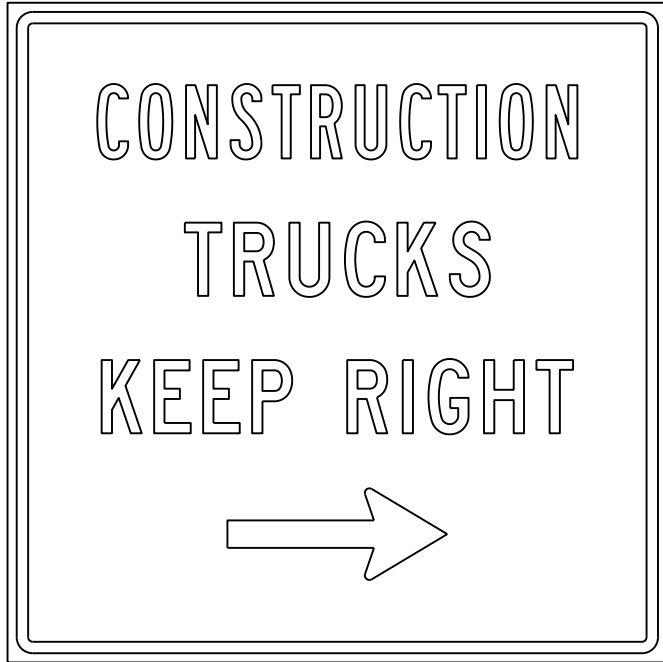
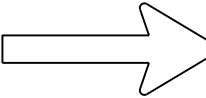


Figure 1: Dimensioning of the test specimen. The diagram shows a rectangular specimen with various dimensions in inches. The total width is 36 inches. The total height is 26.25 inches. The top flange has a thickness of 4.875 inches. The web has a thickness of 3 inches. The bottom flange has a thickness of 5.125 inches. The distance from the top flange to the web is 9.625 inches. The distance from the web to the bottom flange is 12.375 inches. The distance between the two flanges is 10.375 inches. The distance from the left edge to the web is 9.625 inches. The distance from the web to the right edge is 9.625 inches. The distance from the left edge to the web is 12 inches. The distance from the web to the right edge is 12 inches. The distance from the left edge to the web is 12 inches. The distance from the web to the right edge is 12 inches.

1.375" Radius, 0.625" Border, 0.500" Indent

"CONSTRUCTION" B;

“TRUCKS” C; “KEEP” C; “RIGHT” C

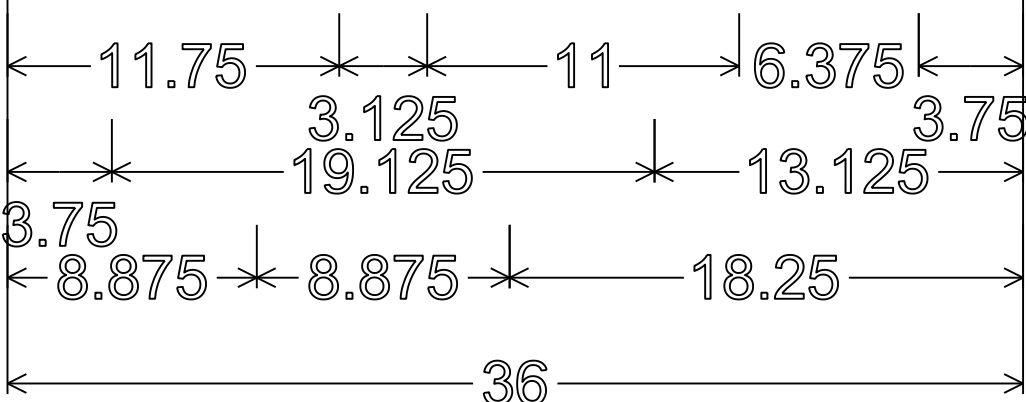
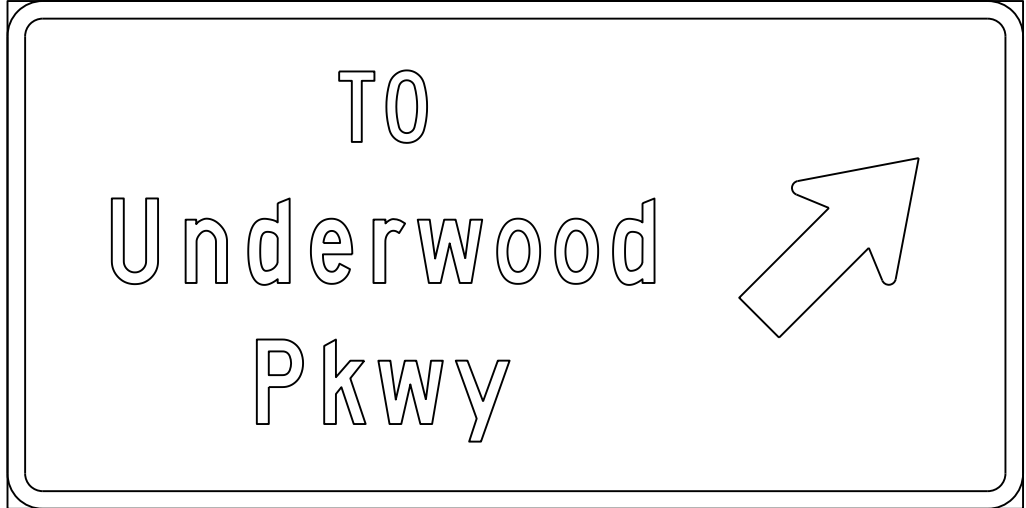
NOTES

1. Fixed Message Type II Signs - Type H Reflective
2. Color:
 - Background - White
 - Message - Black
3. Message Series - As noted

7

7

7



1.250" Radius, 0.625" Border

13

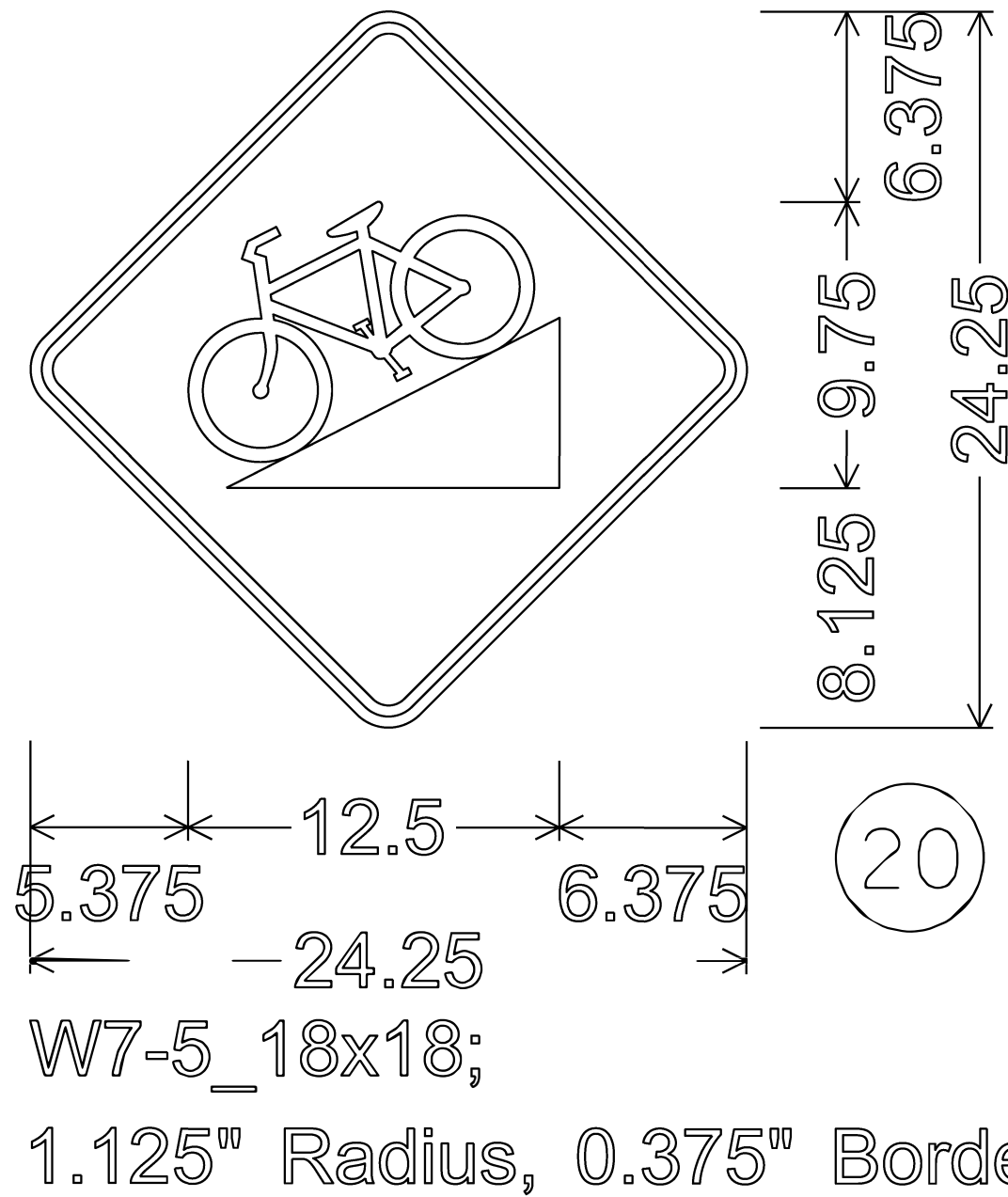
NOTES

- 1. All Signs Type II - Type H Reflective
- 2. Color:
 - Background - Green
 - Message - White
- 3. Message Series - C

7

NOTES

1. All Signs Type II - Type F Reflective
2. Color:
Background - Yellow
Message - Black
3. Message Series - None

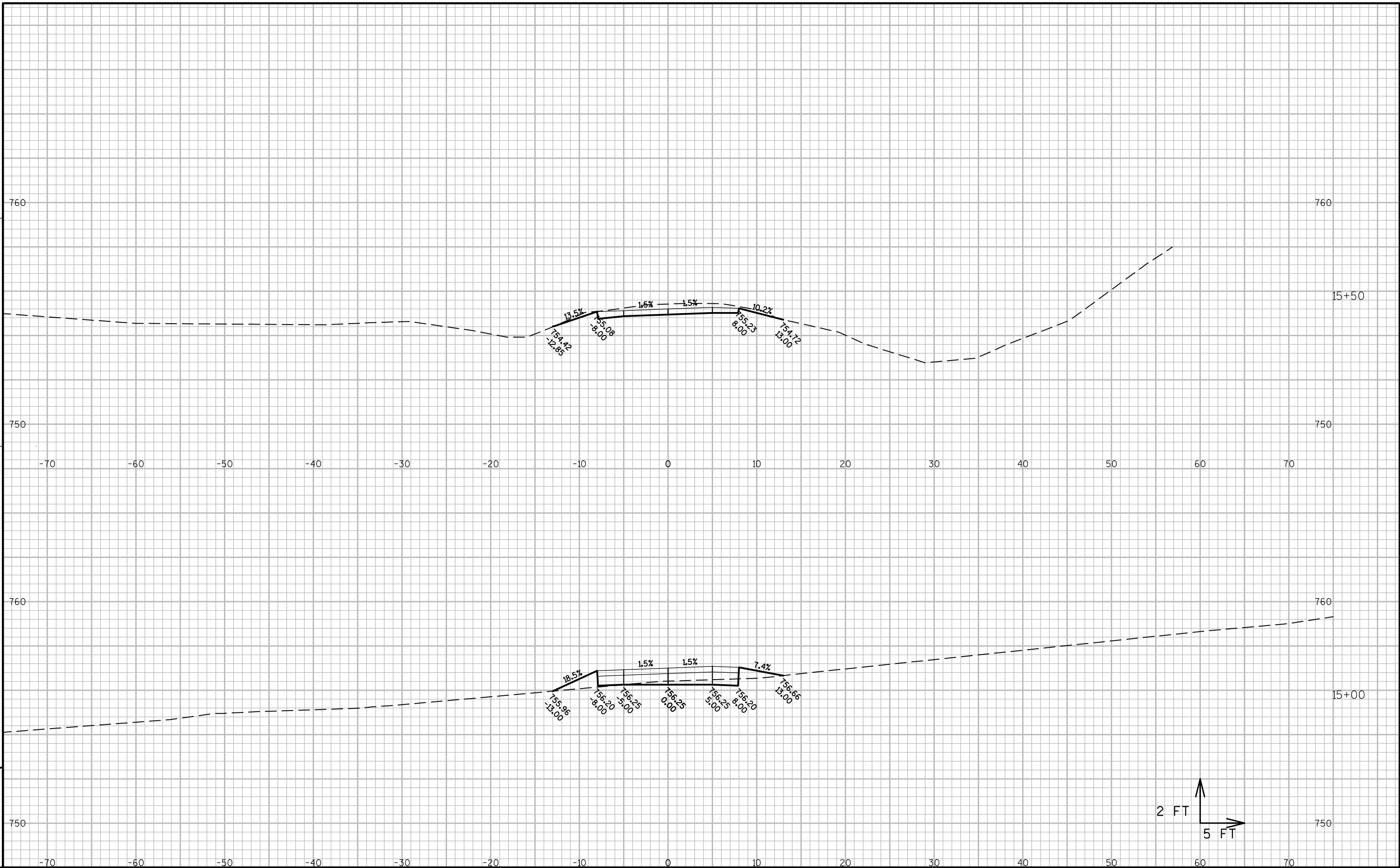


STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		Mass Ordinate
			Cut	Fill	Cut	Fill	Expanded		
							Cut 1.00	Fill 1.10	
					Note 1	Note 2	Note 1	Note 3	
14+50	1450.00	0.00	11.50	0.00	0	0	0	0	0
15+00	1500.00	50.00	1.26	0.83	12	1	12	1	11
15+50	1550.00	50.00	0.00	21.14	1	20	13	23	-10
16+00	1600.00	50.00	0.00	20.89	0	39	13	66	-53
16+50	1650.00	50.00	0.00	29.78	0	47	13	118	-105
17+00	1700.00	50.00	0.58	20.02	1	46	14	168	-155
17+23	1723.00	23.00	14.74	0.00	7	9	20	178	-158
Column Totals					20	162			

Notes:	
1 - Cut	Cut includes Salvaged/Unusable Pavement material
2 - Fill	Does not include Unusable Pavement Exc volume
3 - Expanded Fill	Expanded Fill Factor- 1.10 Expanded Fill= Unexpanded Fill * Fill Factor
	A soil expansion factor of 1.1 was used to generate estimated earthwork quantities. Due to potential soil variability, actual quantities may vary.
	No quantity adjustments will be made for differing soil expansion factors encountered in the field.

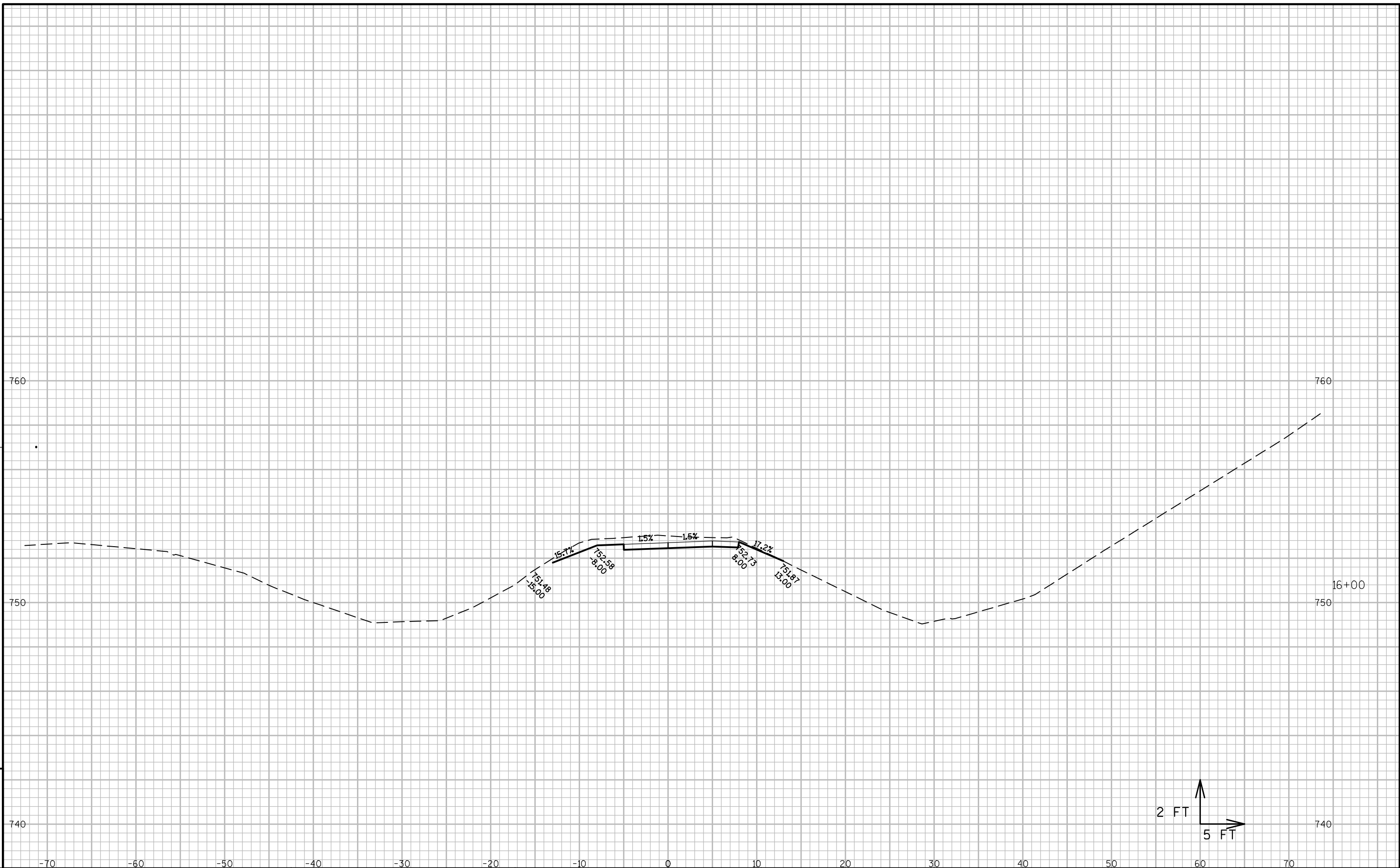
STATION	Real Station	Distance	AREA (SF)		Incremental Vol (CY) (Unadjusted)		Cumulative Vol (CY)		
			Cut	Fill	Cut	Fill	Expanded		Mass Ordinate
							1.00	1.10	
					Note 1	Note 2	Note 1	Note 3	Note 8
15+00	1500.00	0.00	2.16	3.39	0	0	0	0	0
15+50	1550.00	50.00	3.11	0.36	5	3	5	4	1
16+00	1600.00	50.00	2.98	0.58	6	1	11	5	6
16+50	1650.00	50.00	3.70	1.72	6	2	17	7	10
17+00	1700.00	50.00	2.63	1.29	6	3	23	10	12
17+50	1750.00	50.00	4.72	0.00	7	1	29	11	18
18+00	1800.00	50.00	3.34	0.00	7	0	37	11	25
18+50	1850.00	50.00	4.35	0.00	7	0	44	11	32
19+00	1900.00	50.00	4.32	0.00	8	0	52	11	41
19+50	1950.00	50.00	5.94	0.00	9	0	61	11	50
20+00	2000.00	50.00	4.20	0.01	9	0	71	11	59
20+50	2050.00	50.00	11.71	0.26	15	0	86	12	74
21+00	2100.00	50.00	12.39	0.00	22	0	108	12	96
21+50	2150.00	50.00	10.93	0.41	22	0	130	12	117
22+00	2200.00	50.00	11.67	0.61	21	1	150	13	137
22+50	2250.00	50.00	14.33	0.59	24	1	174	15	160
23+00	2300.00	50.00	9.58	1.47	22	2	197	17	180
23+50	2350.00	50.00	10.17	1.06	18	2	215	19	196
24+00	2400.00	50.00	11.98	1.24	21	2	235	22	214
24+50	2450.00	50.00	12.17	1.22	22	2	258	24	234
25+00	2500.00	50.00	10.81	0.89	21	2	279	26	253
25+50	2550.00	50.00	8.95	1.25	18	2	297	29	269
26+00	2600.00	50.00	13.71	0.70	21	2	318	31	288
26+50	2650.00	50.00	13.53	0.13	25	1	344	31	312
27+00	2700.00	50.00	13.05	0.16	25	0	368	32	336
27+50	2750.00	50.00	10.49	0.53	22	1	390	32	358
28+00	2800.00	50.00	10.65	0.00	20	0	410	33	377
28+50	2850.00	50.00	12.86	0.18	22	0	431	33	398
29+00	2900.00	50.00	15.18	0.10	26	0	457	33	424
29+50	2950.00	50.00	13.59	0.79	27	1	484	34	450
30+00	3000.00	50.00	14.23	0.06	26	1	510	35	475
30+50	3050.00	50.00	2.02	2.33	15	2	525	38	487
31+00	3100.00	50.00	12.09	0.05	13	2	538	40	498
31+16.56	3116.56	16.56	12.44	0.00	8	0	545	40	505
Column Totals					545	36			

Notes:	
1 - Cut	Cut includes Salvaged/Unusable Pavement material
2 - Fill	Does not include Unusable Pavement Exc volume
3 - Expanded Fill	Expanded Fill Factor- 1.10 Expanded Fill= Unexpanded Fill * Fill Factor
	A soil expansion factor of 1.1 was used to generate estimated earthwork quantities. Due to potential soil variability, actual quantities may vary.
	No quantity adjustments will be made for differing soil expansion factors encountered in the field.



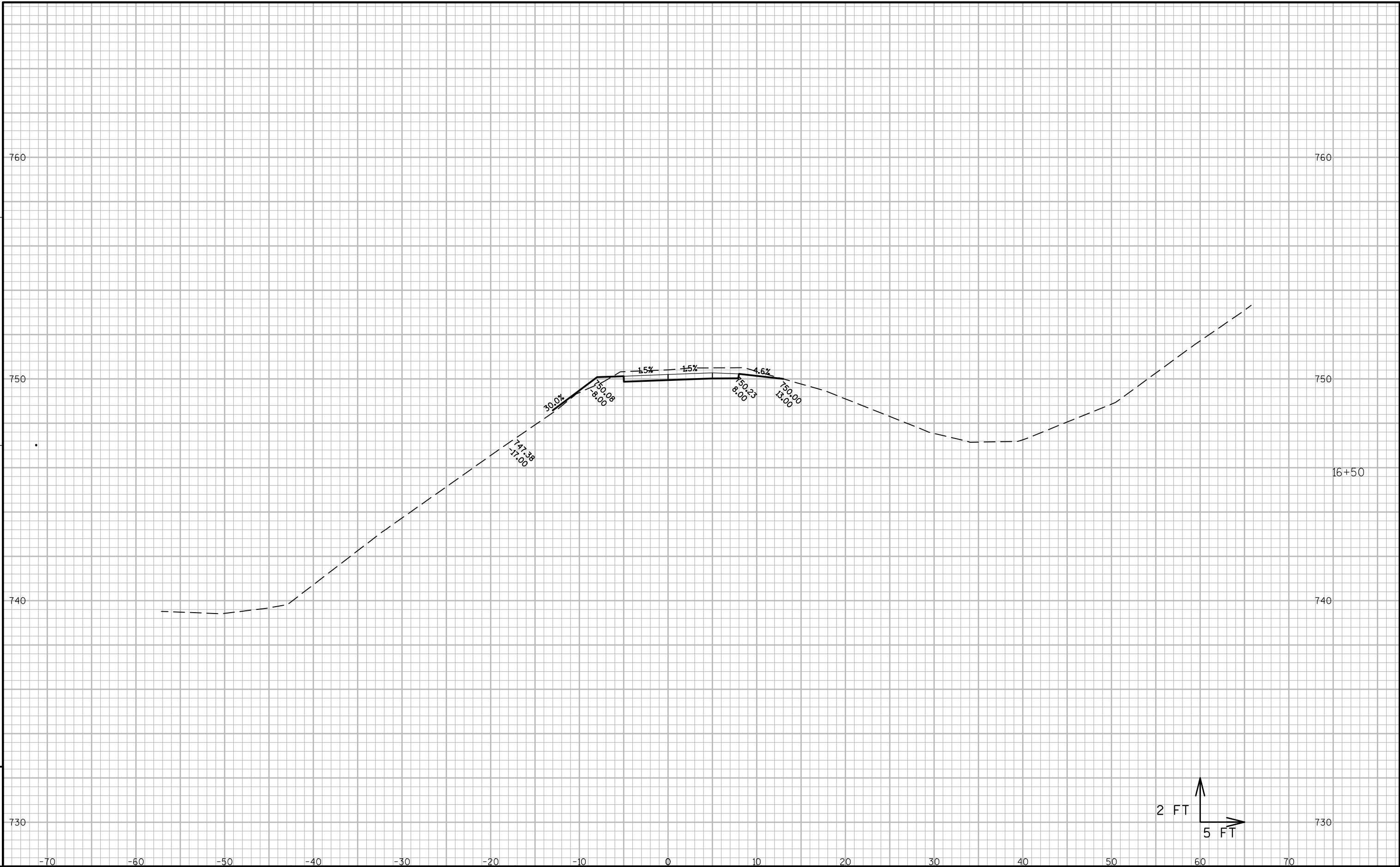
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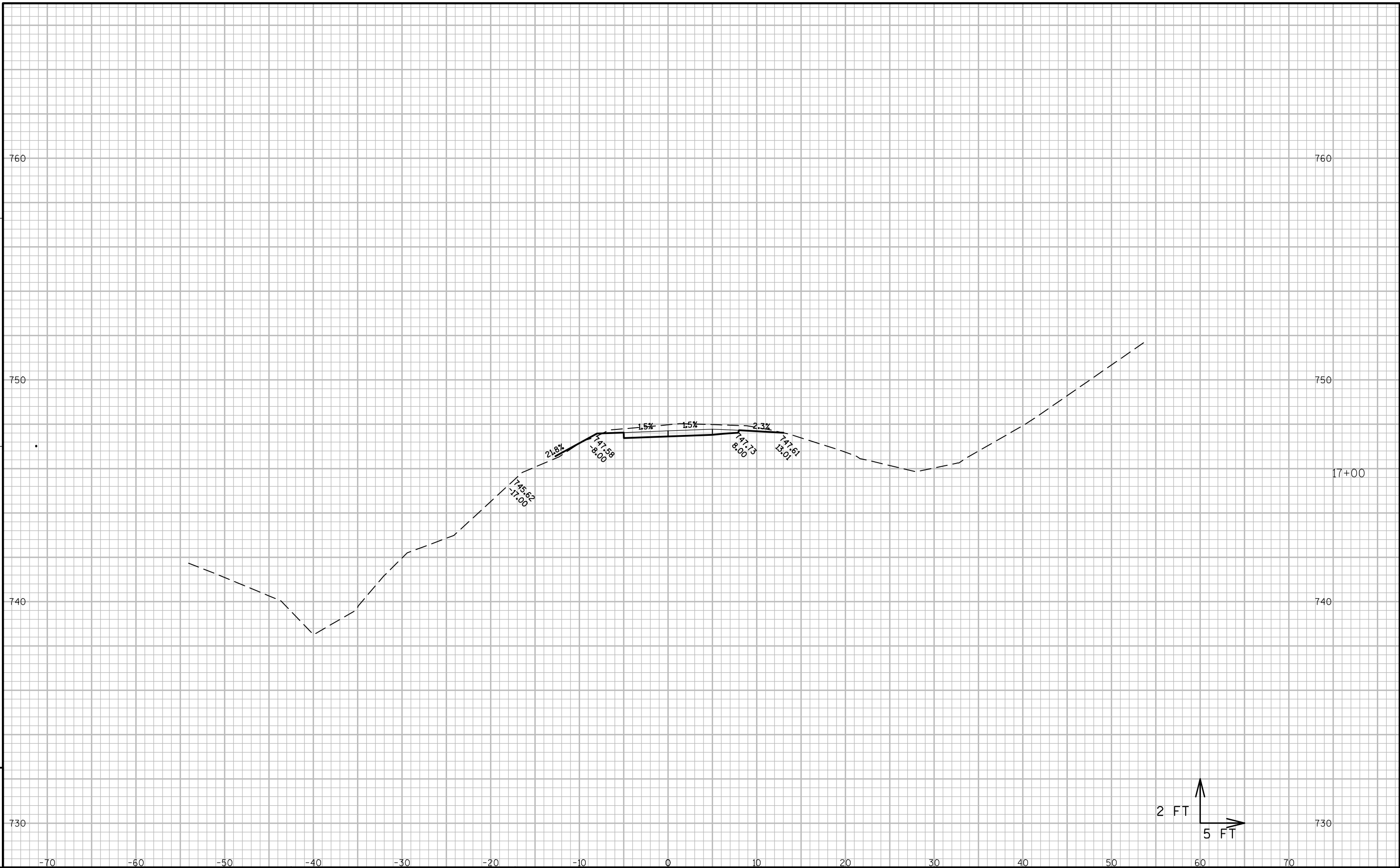
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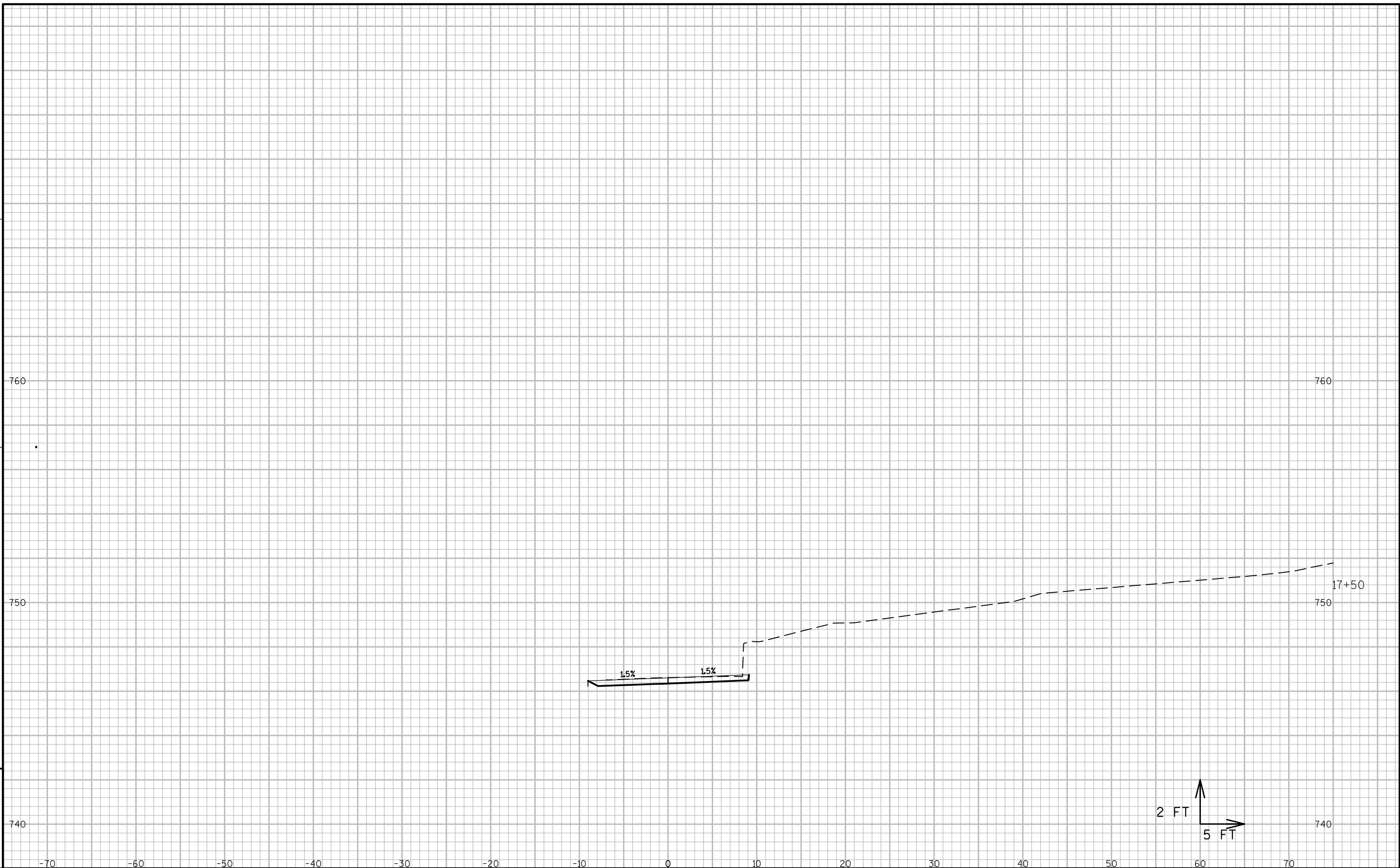
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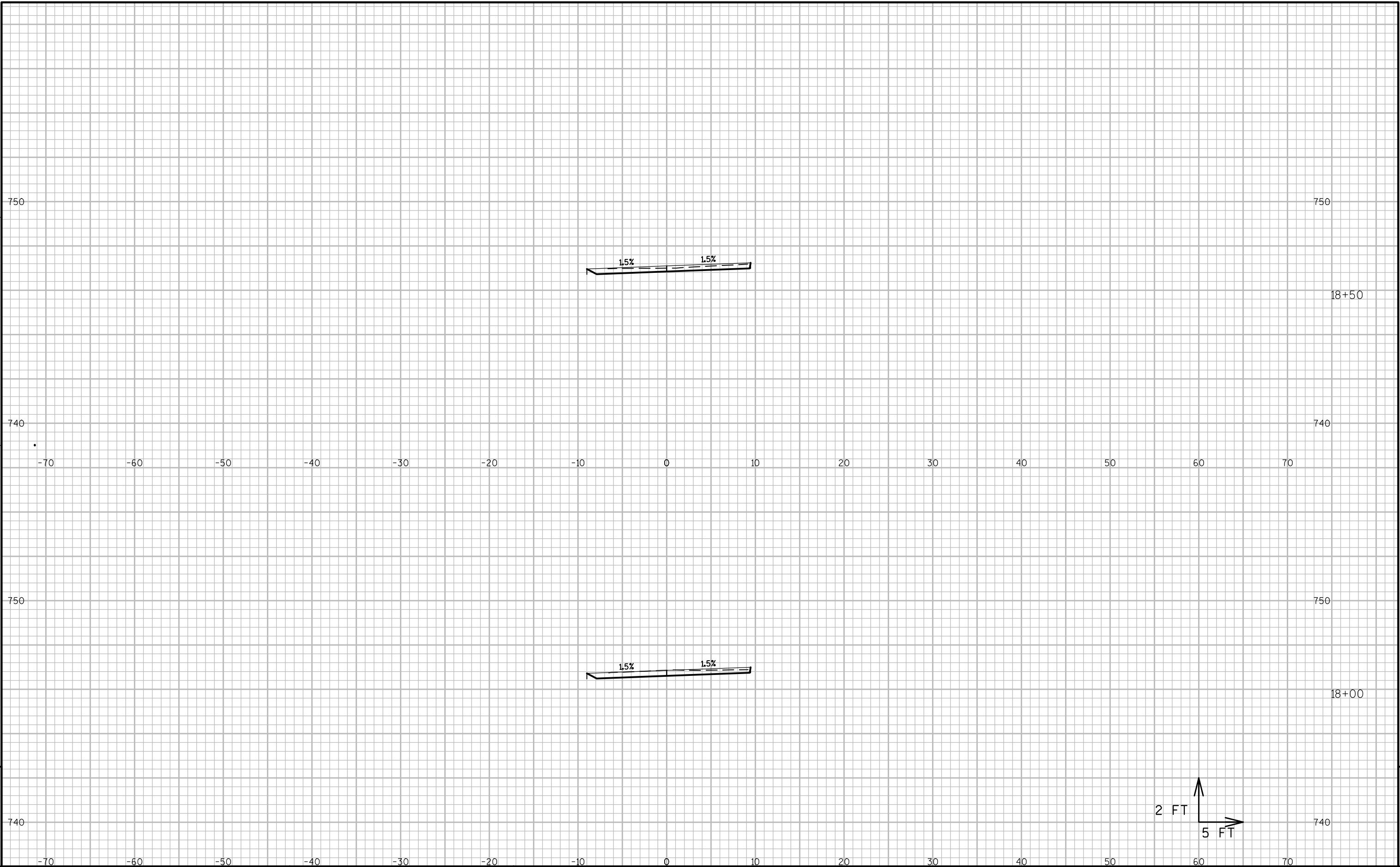


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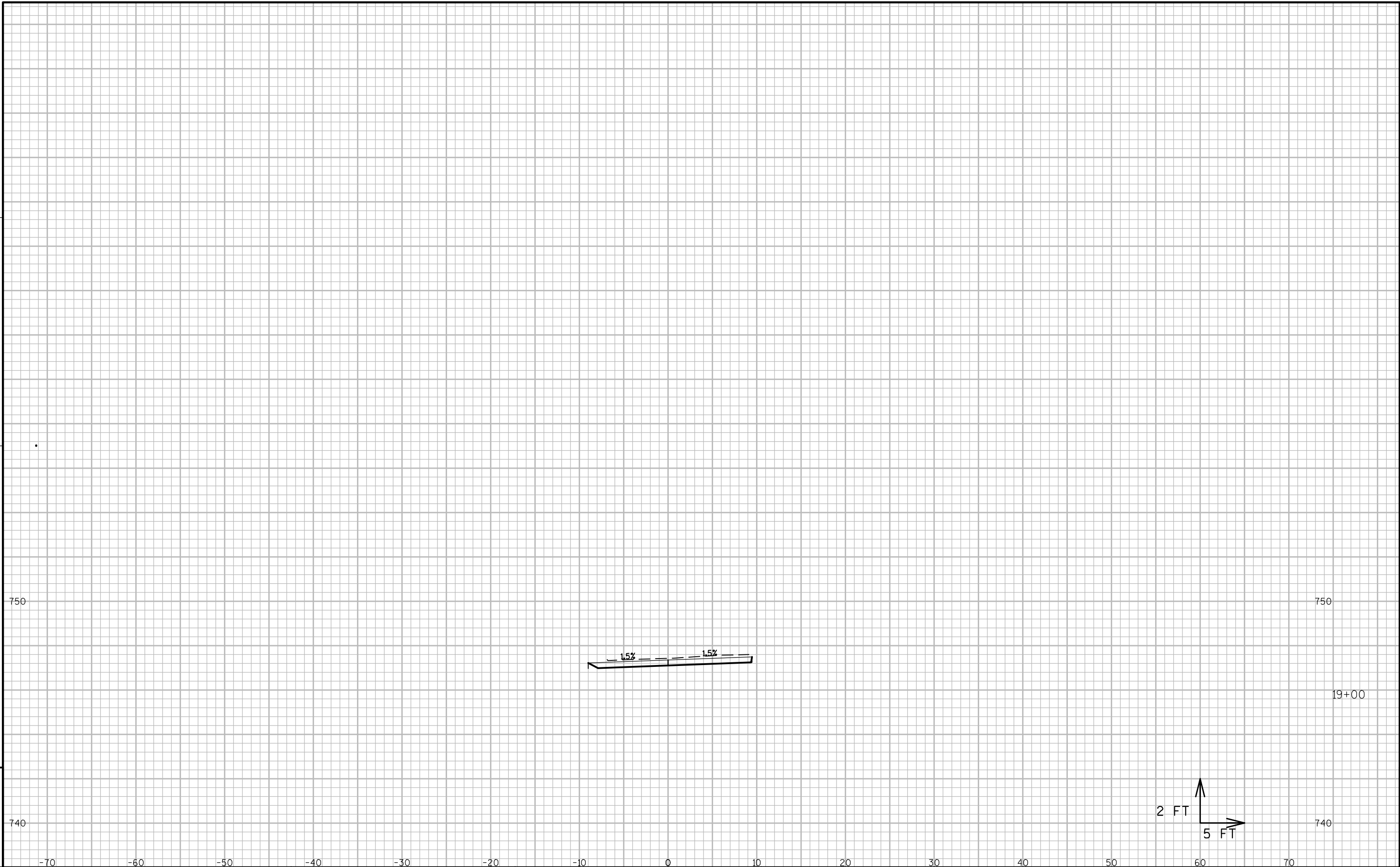


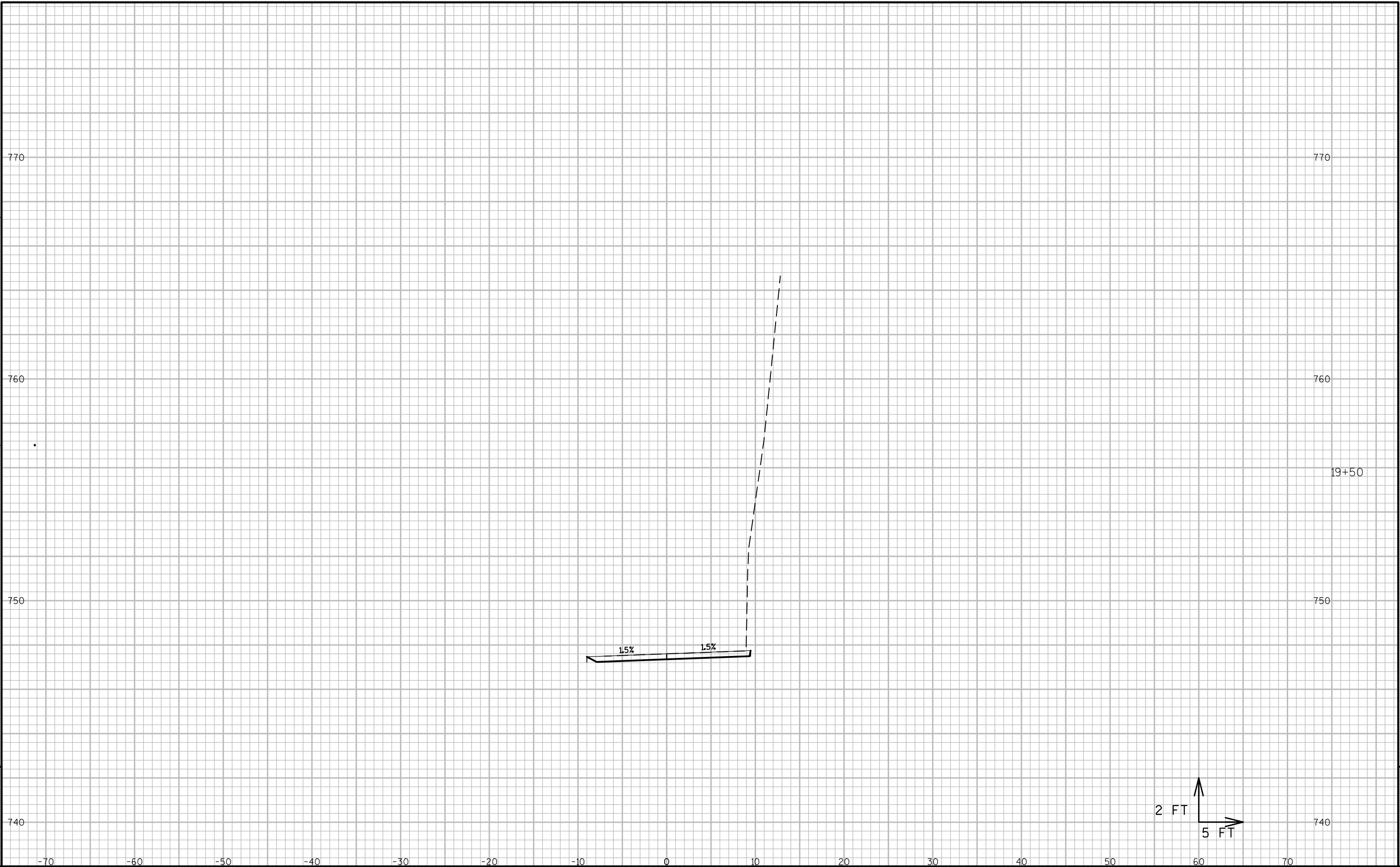


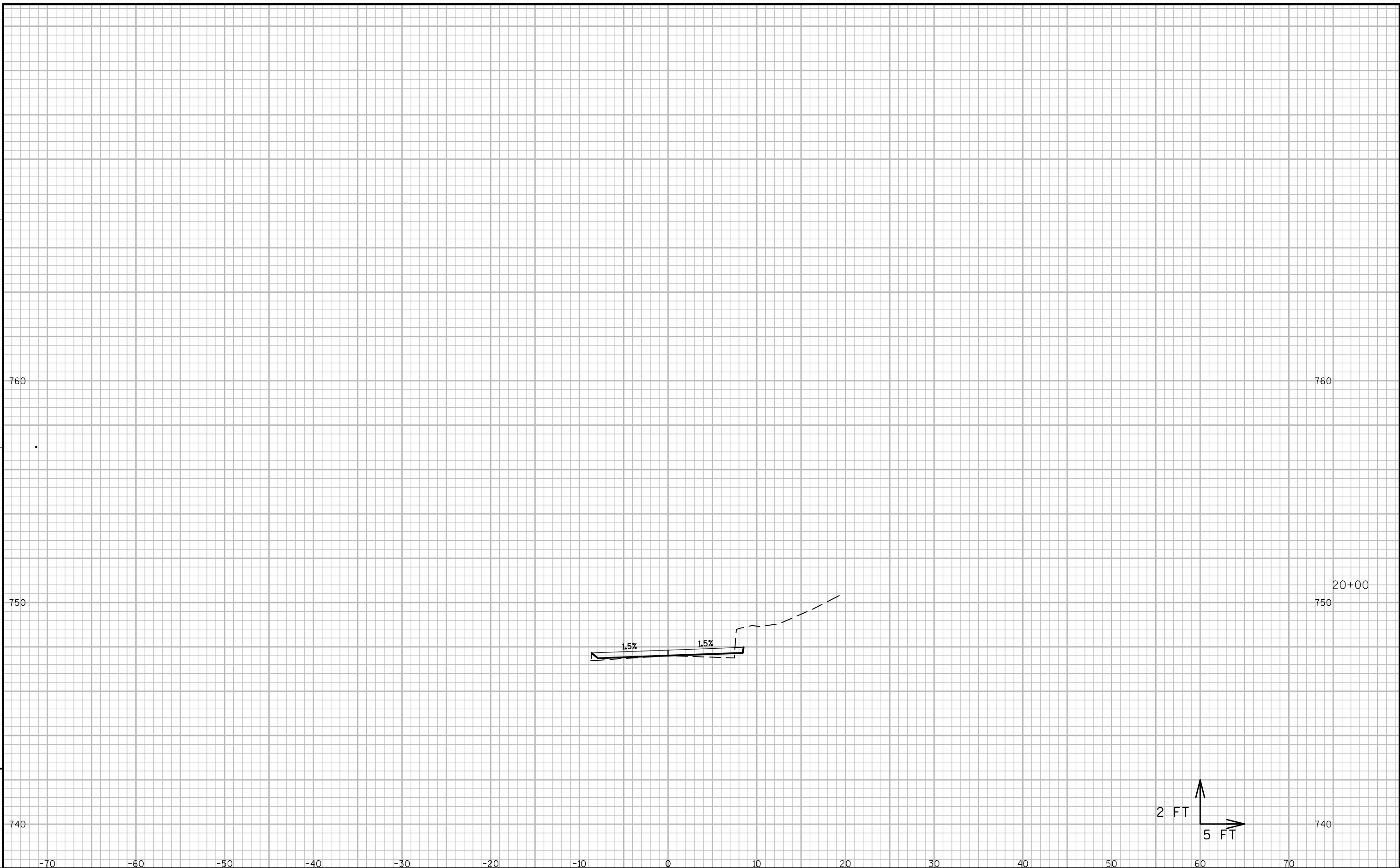


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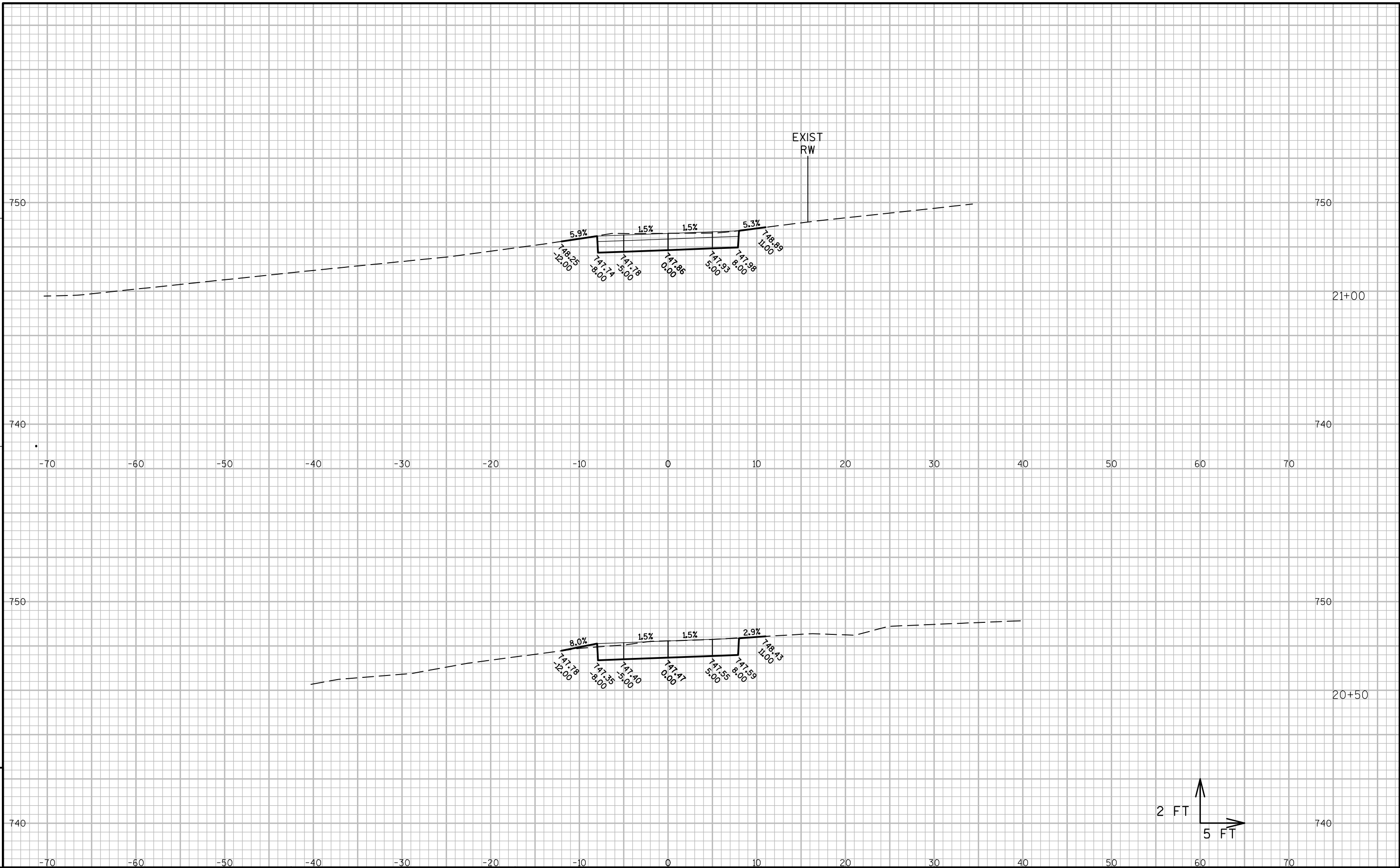


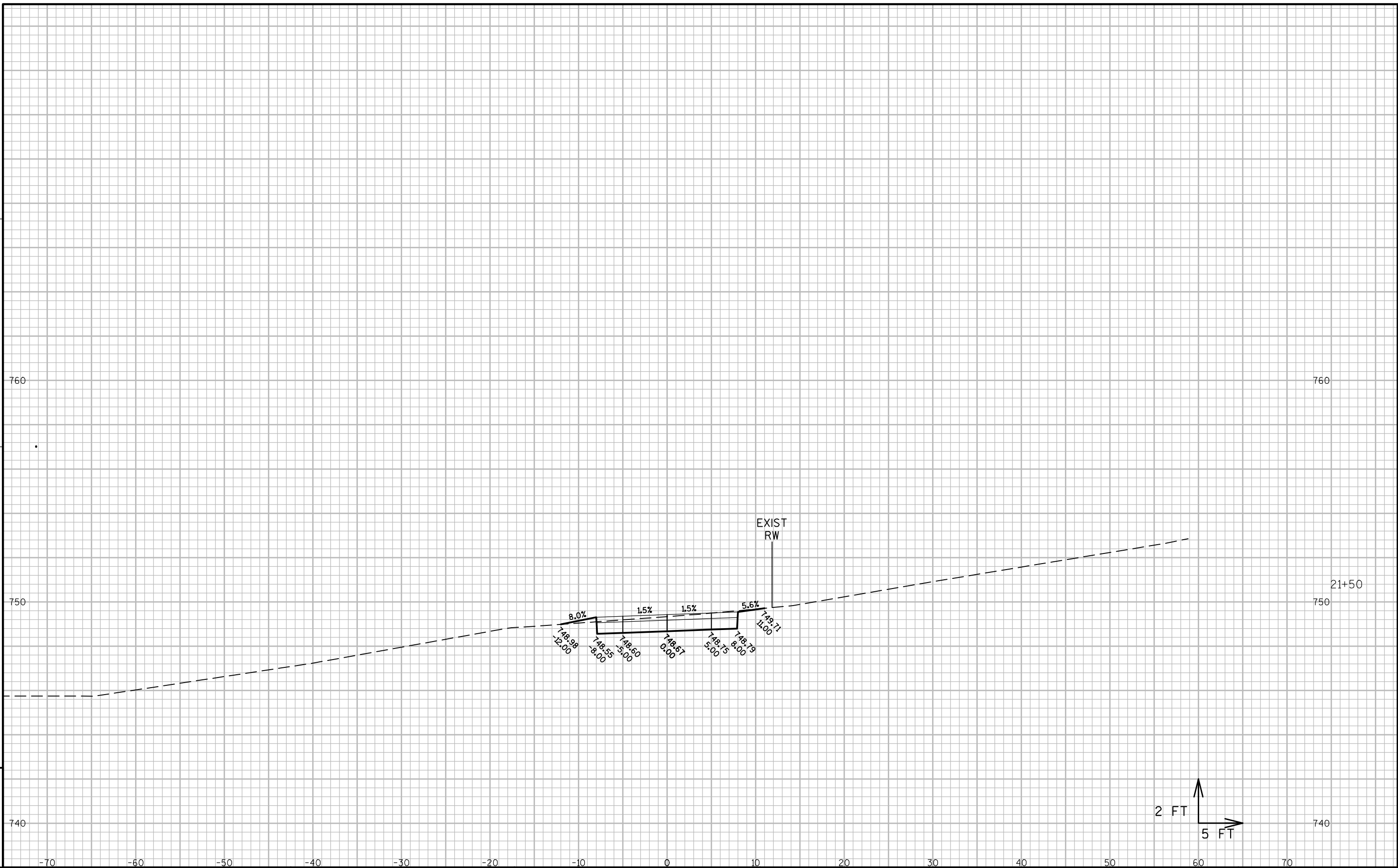




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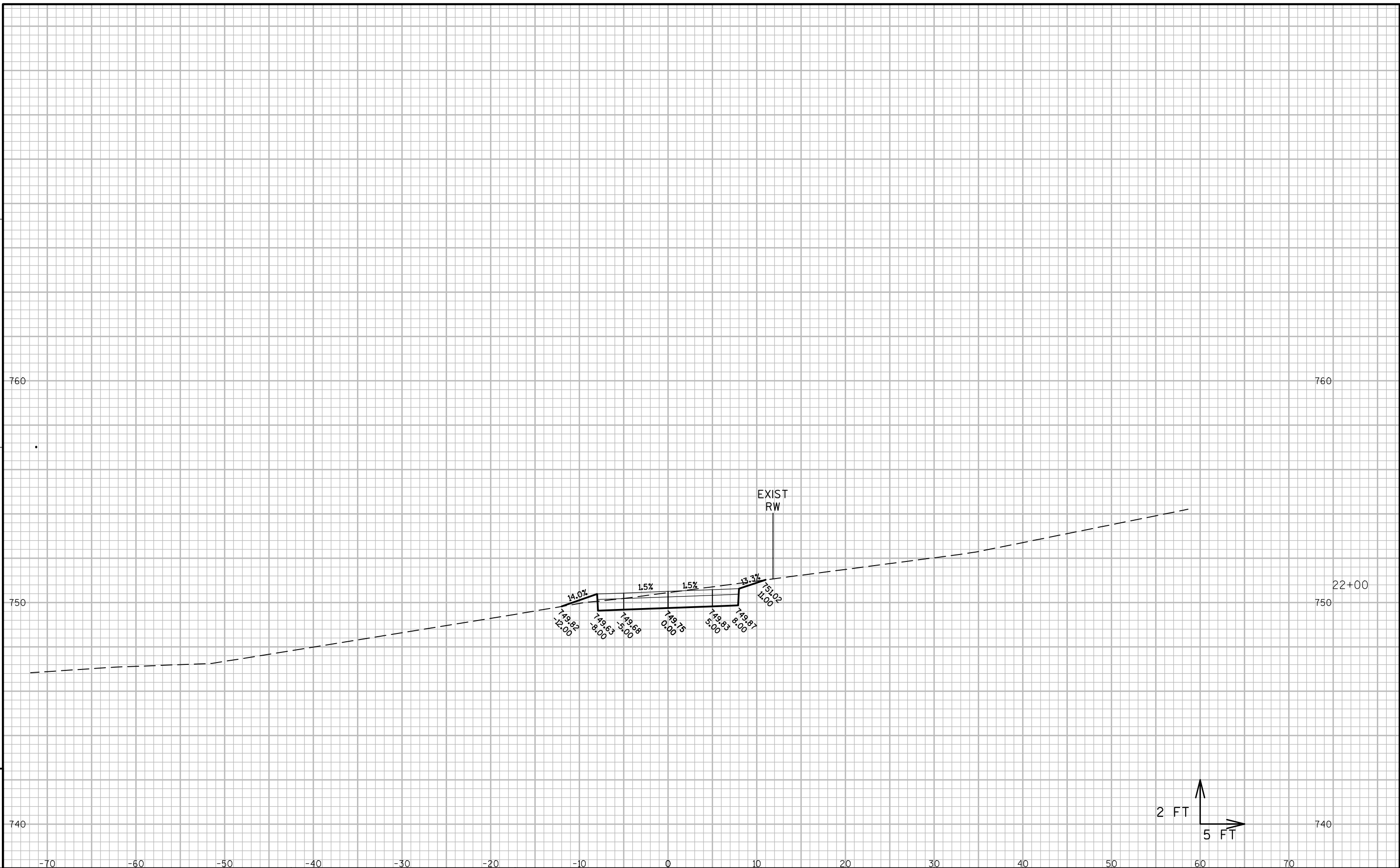
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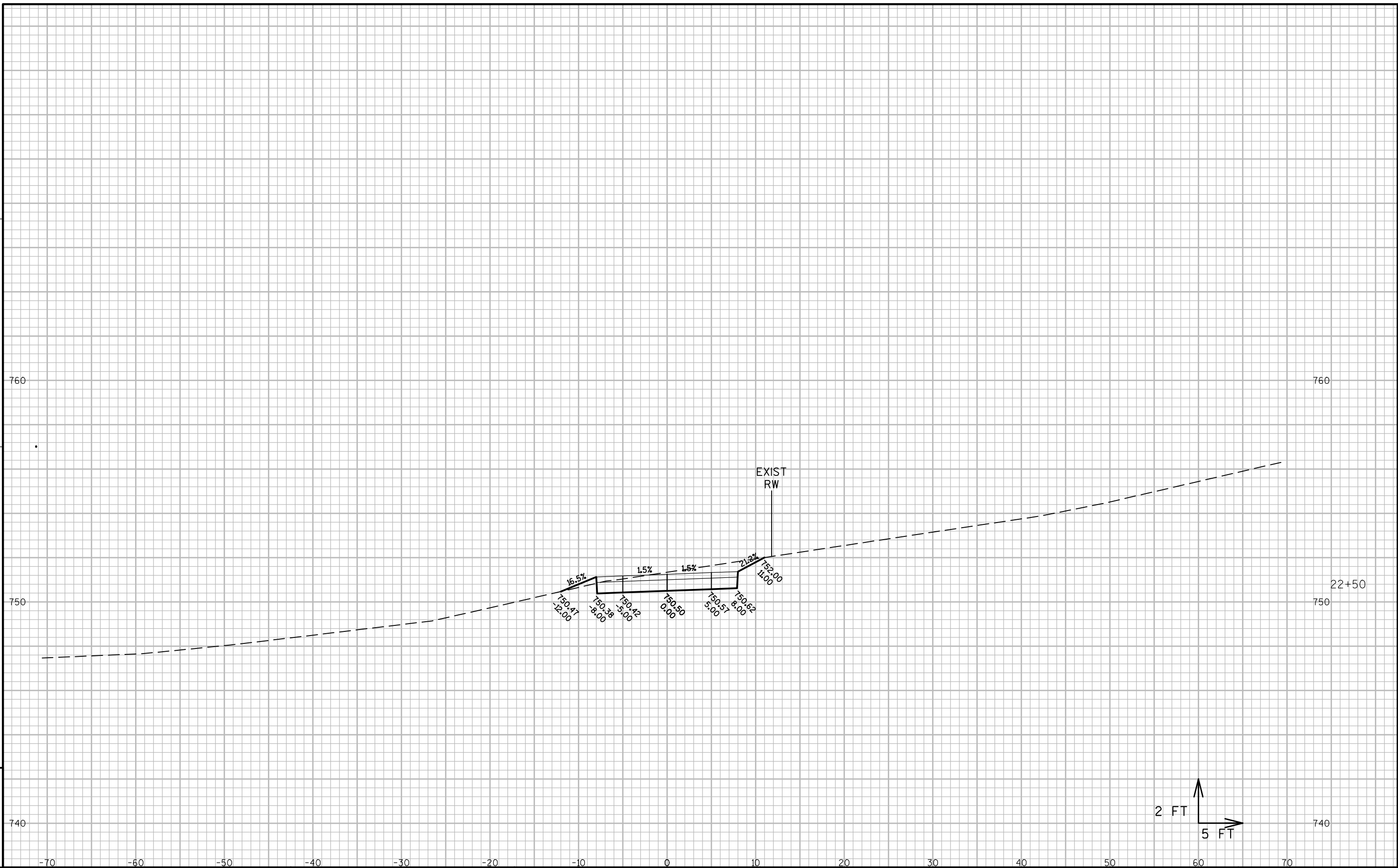
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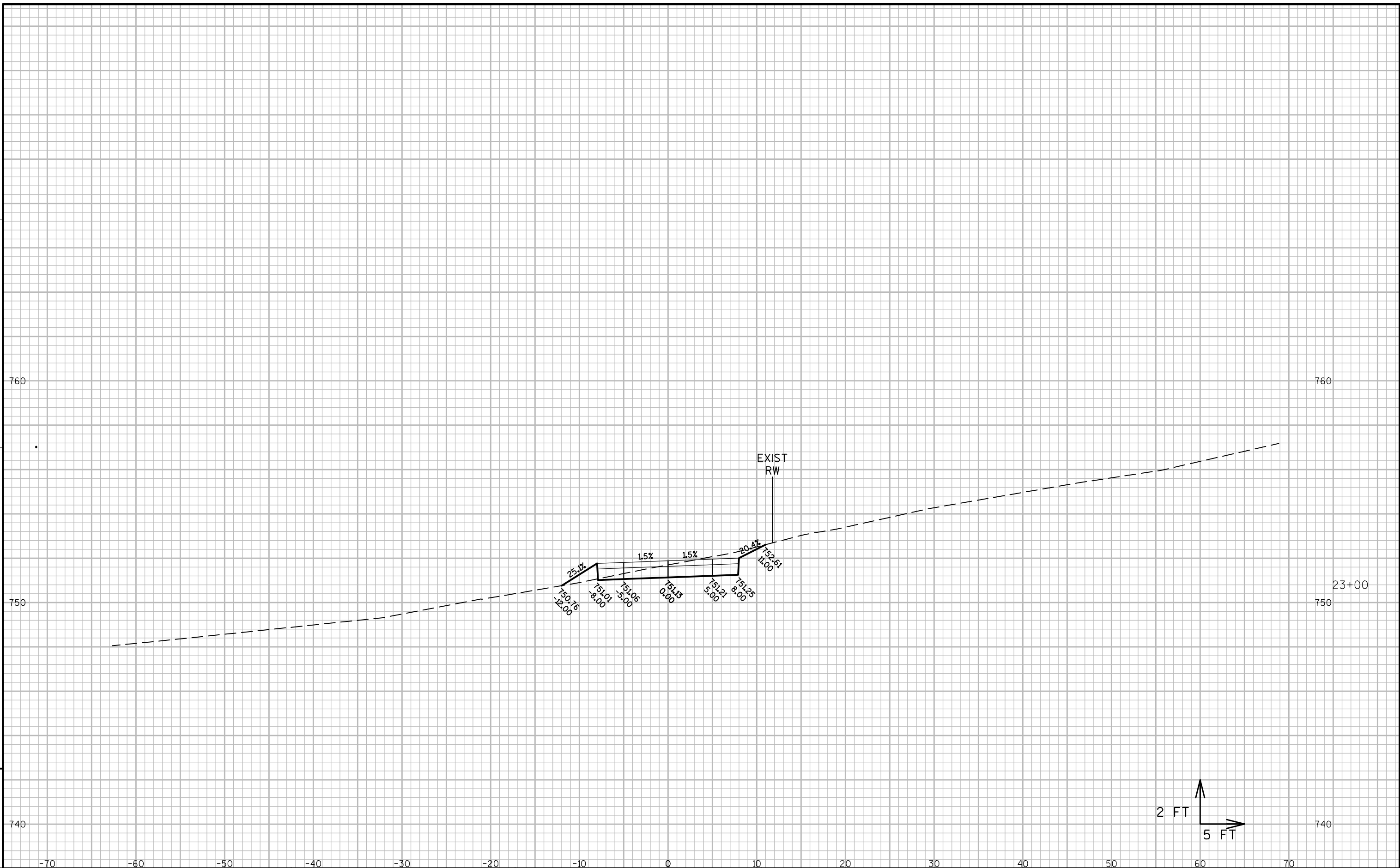
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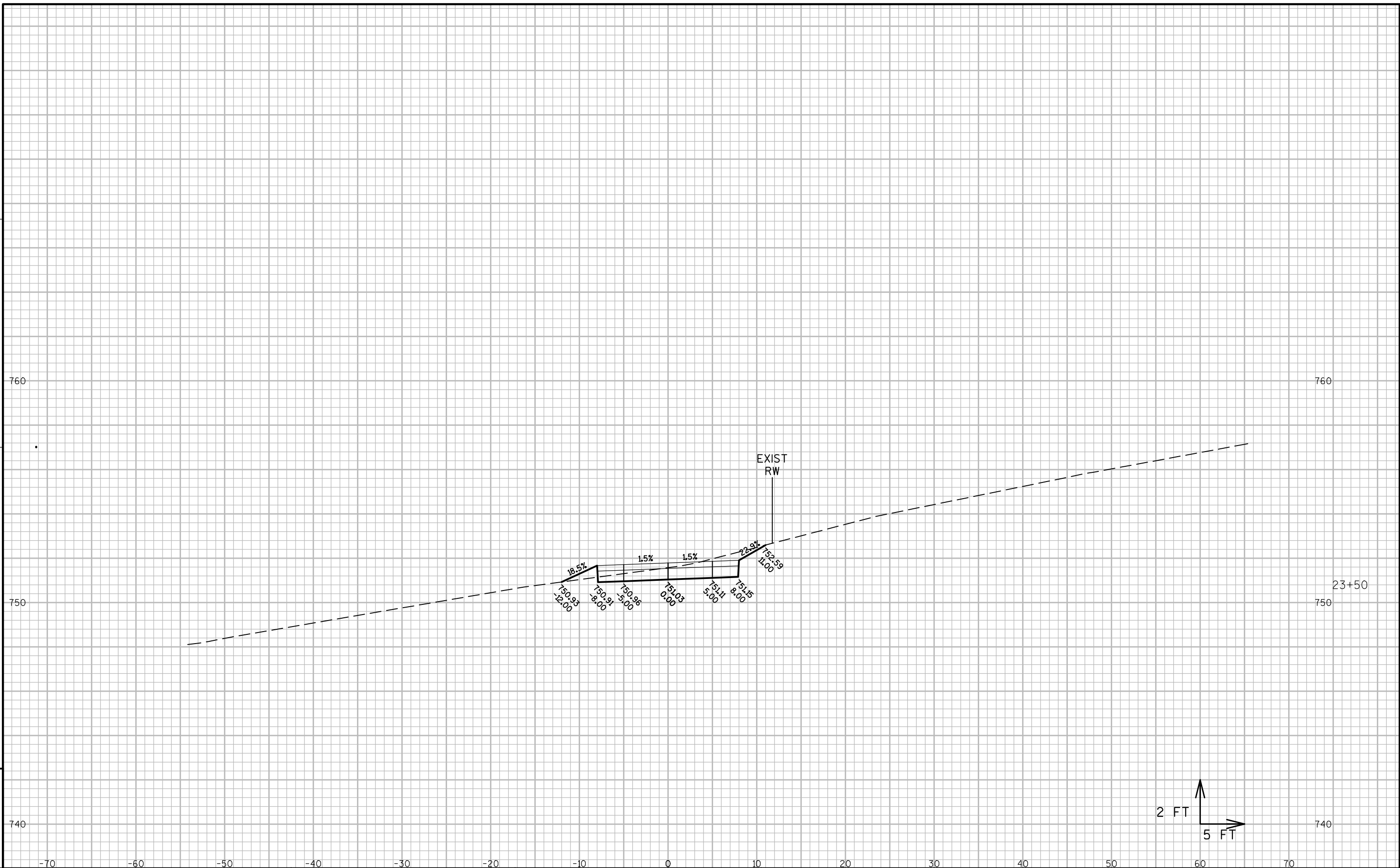
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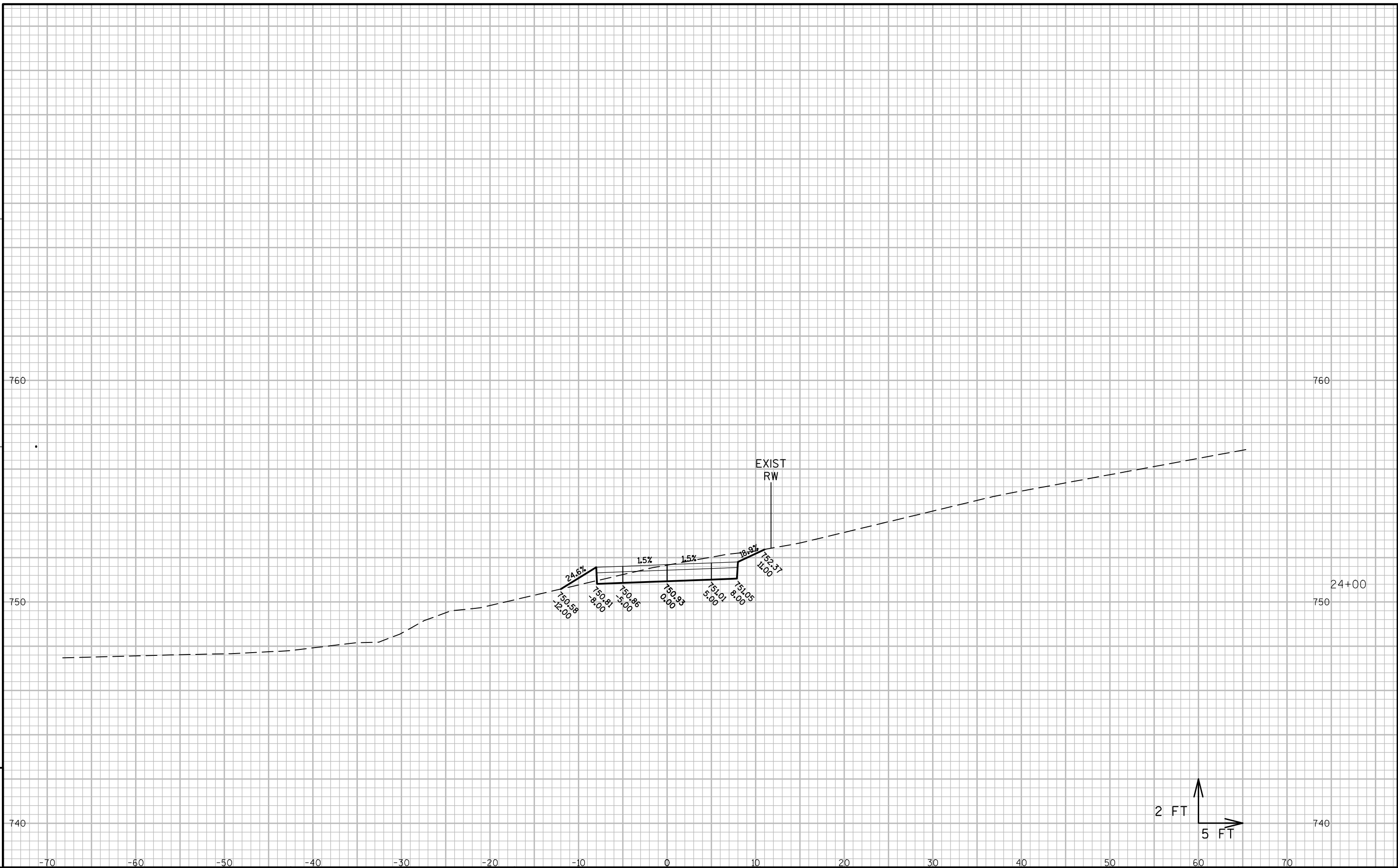
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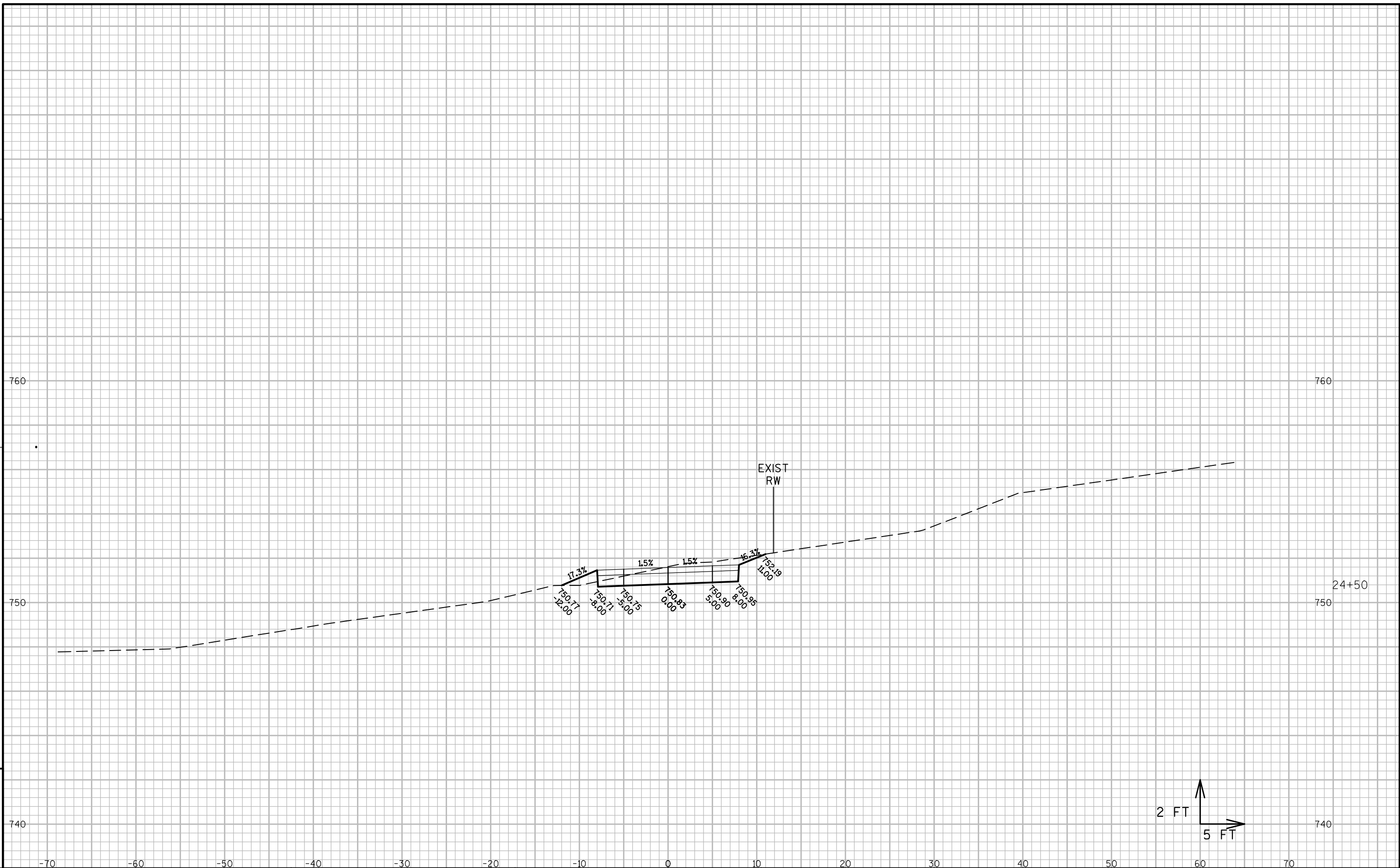
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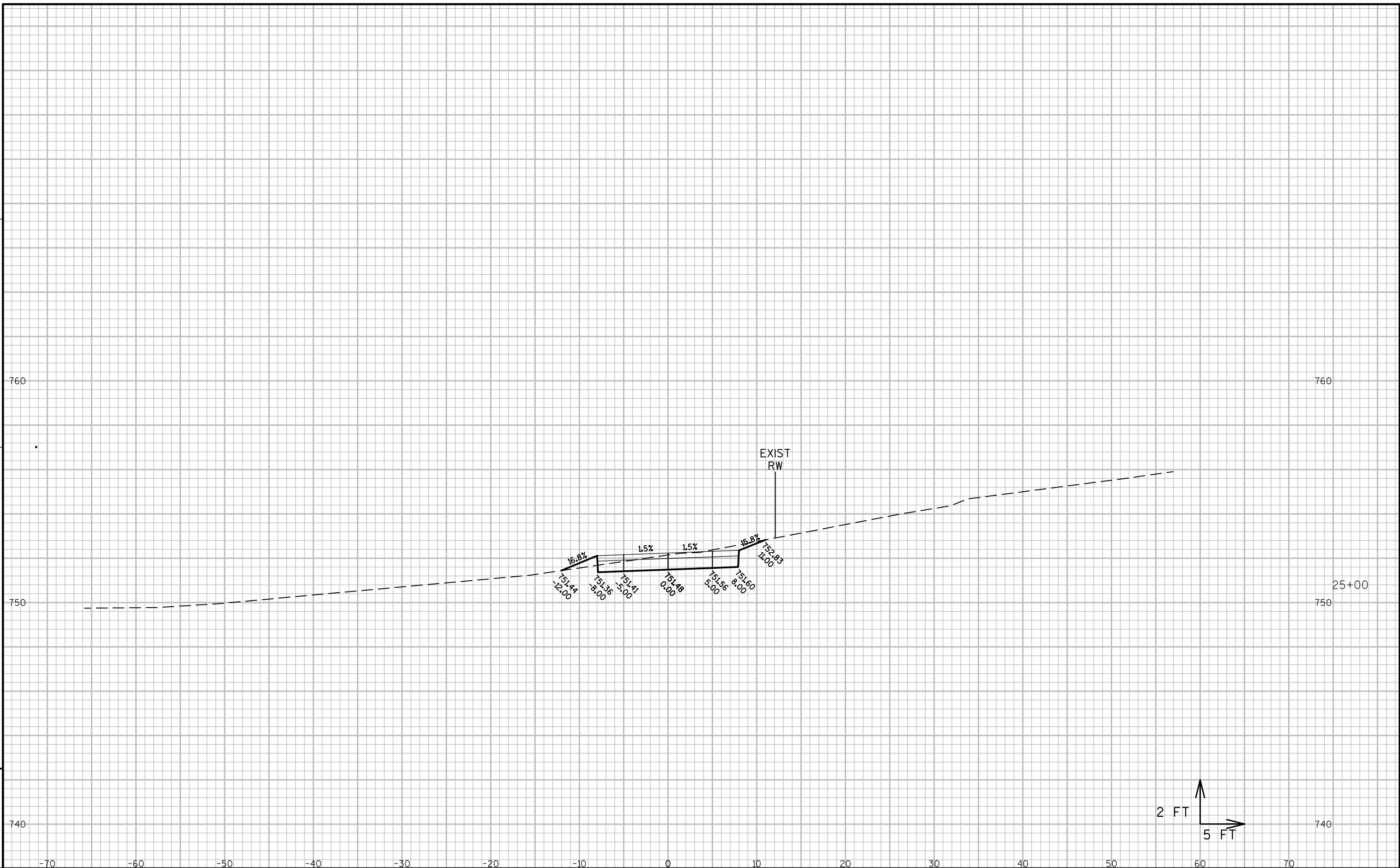
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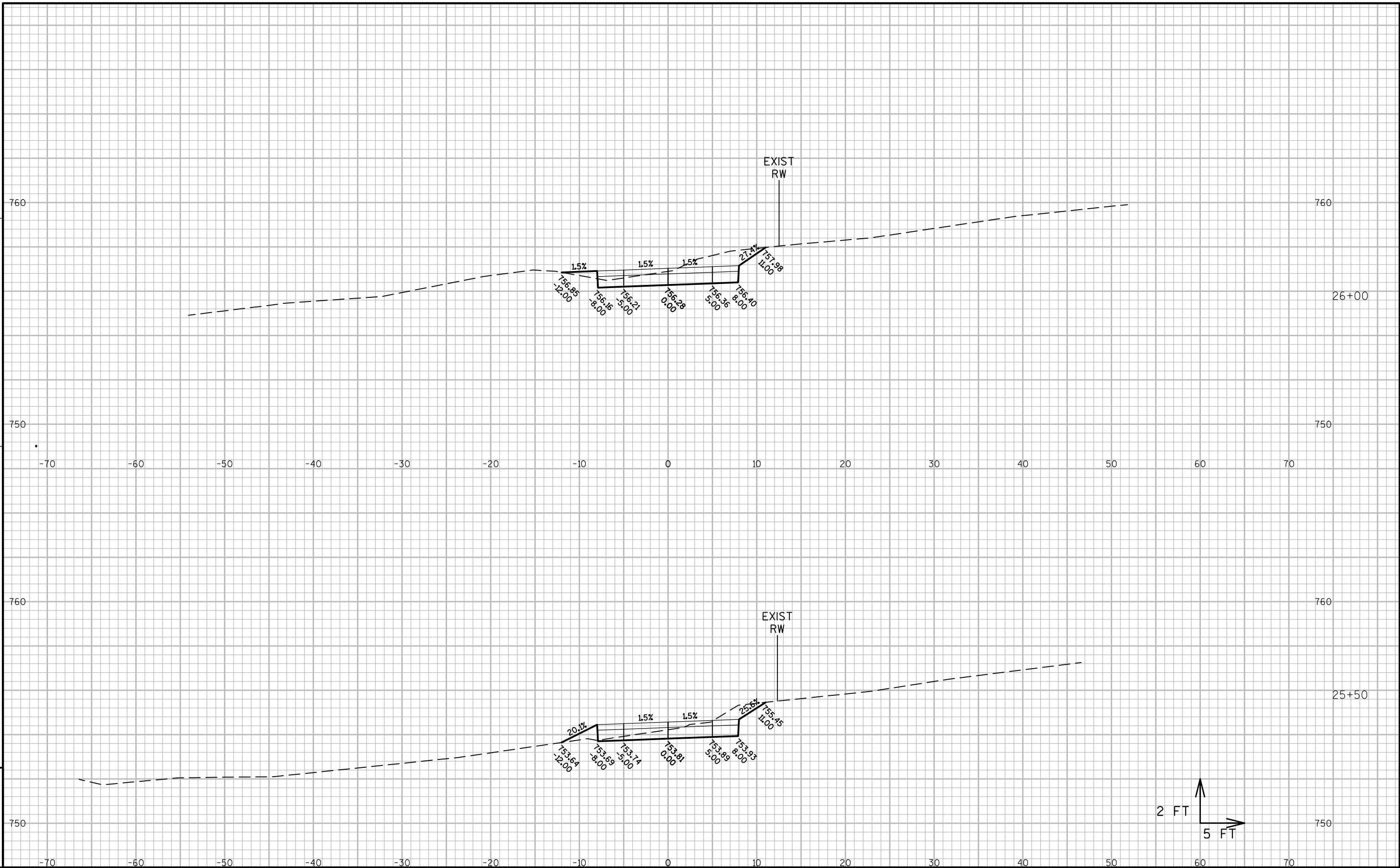
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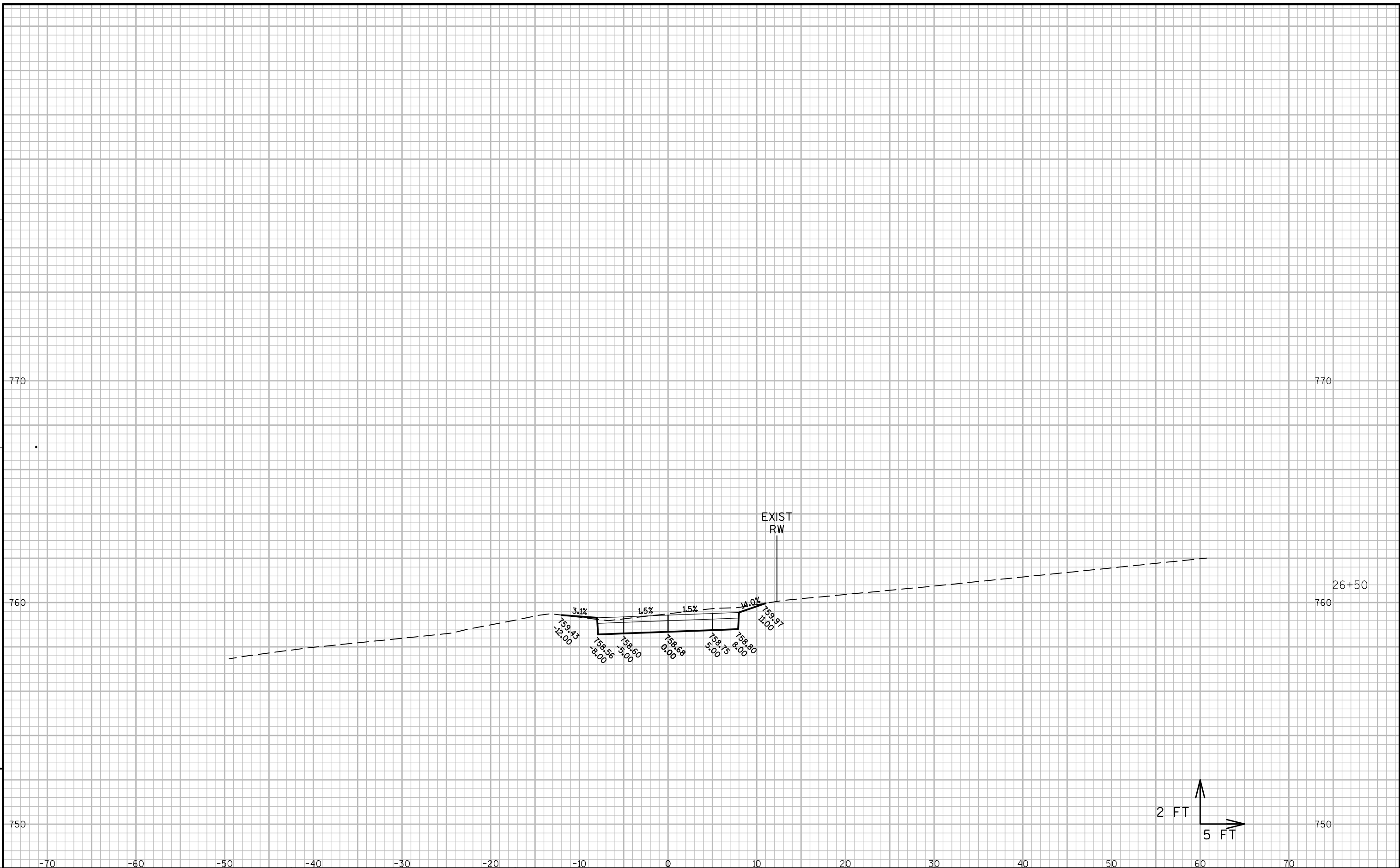


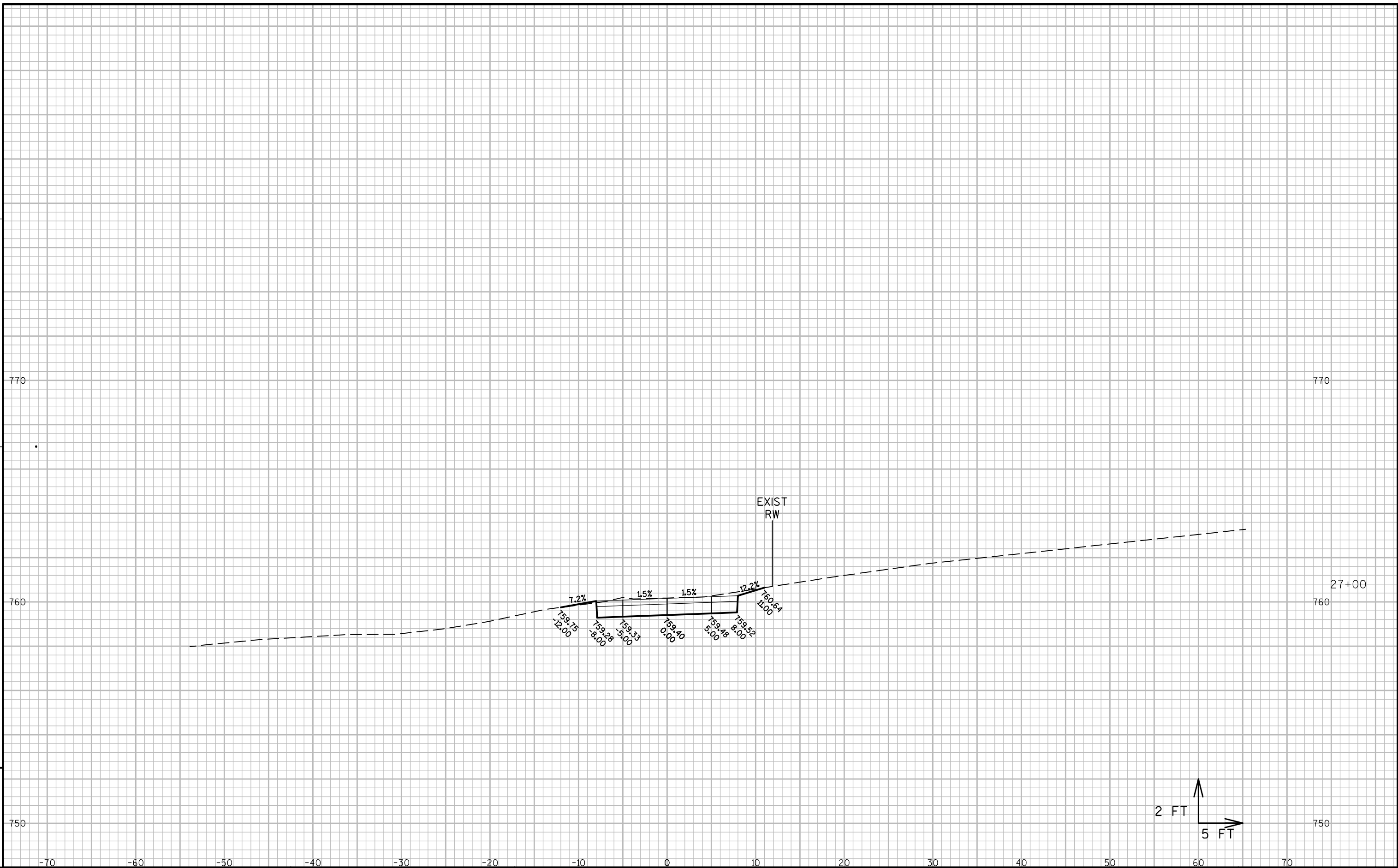
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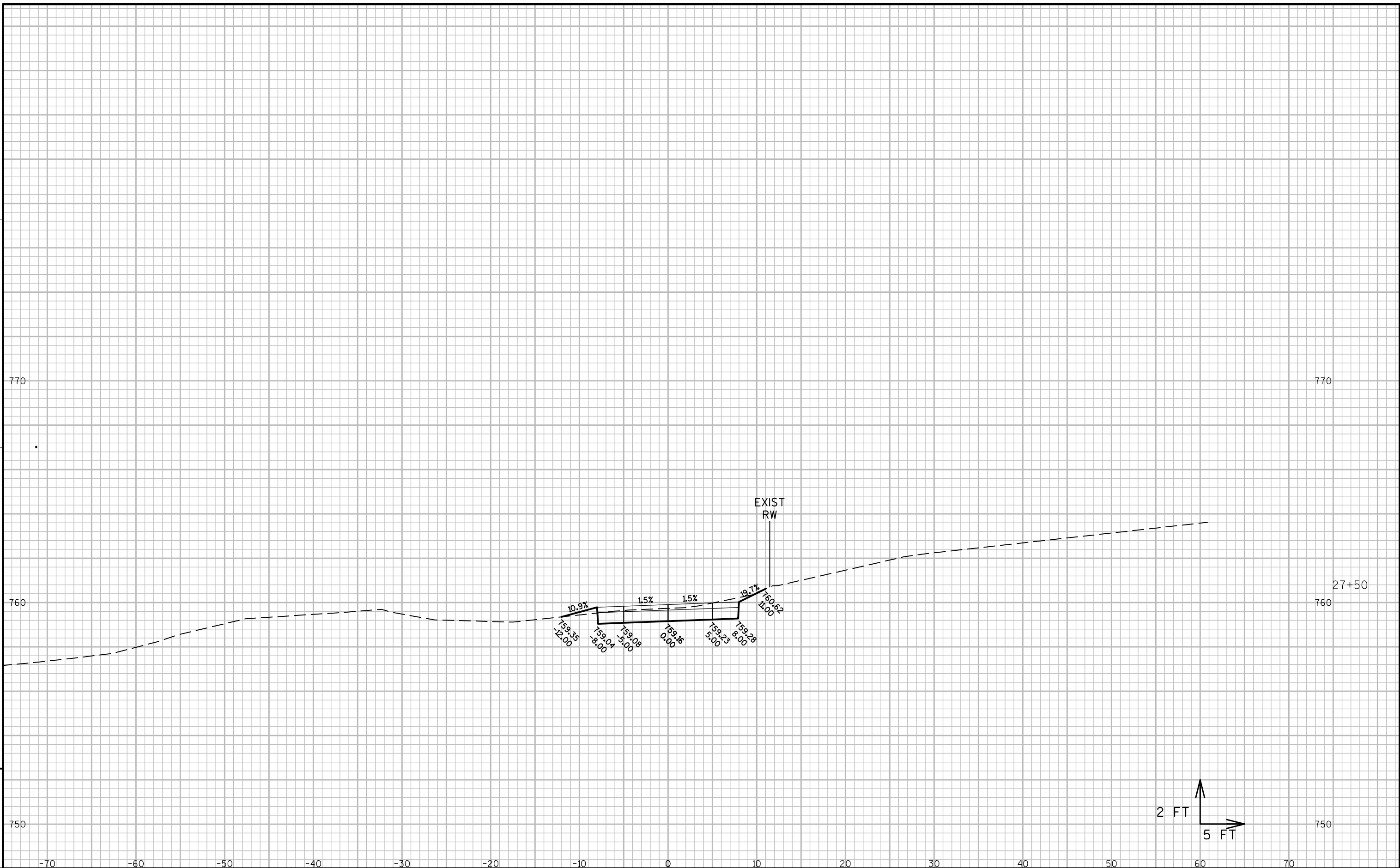






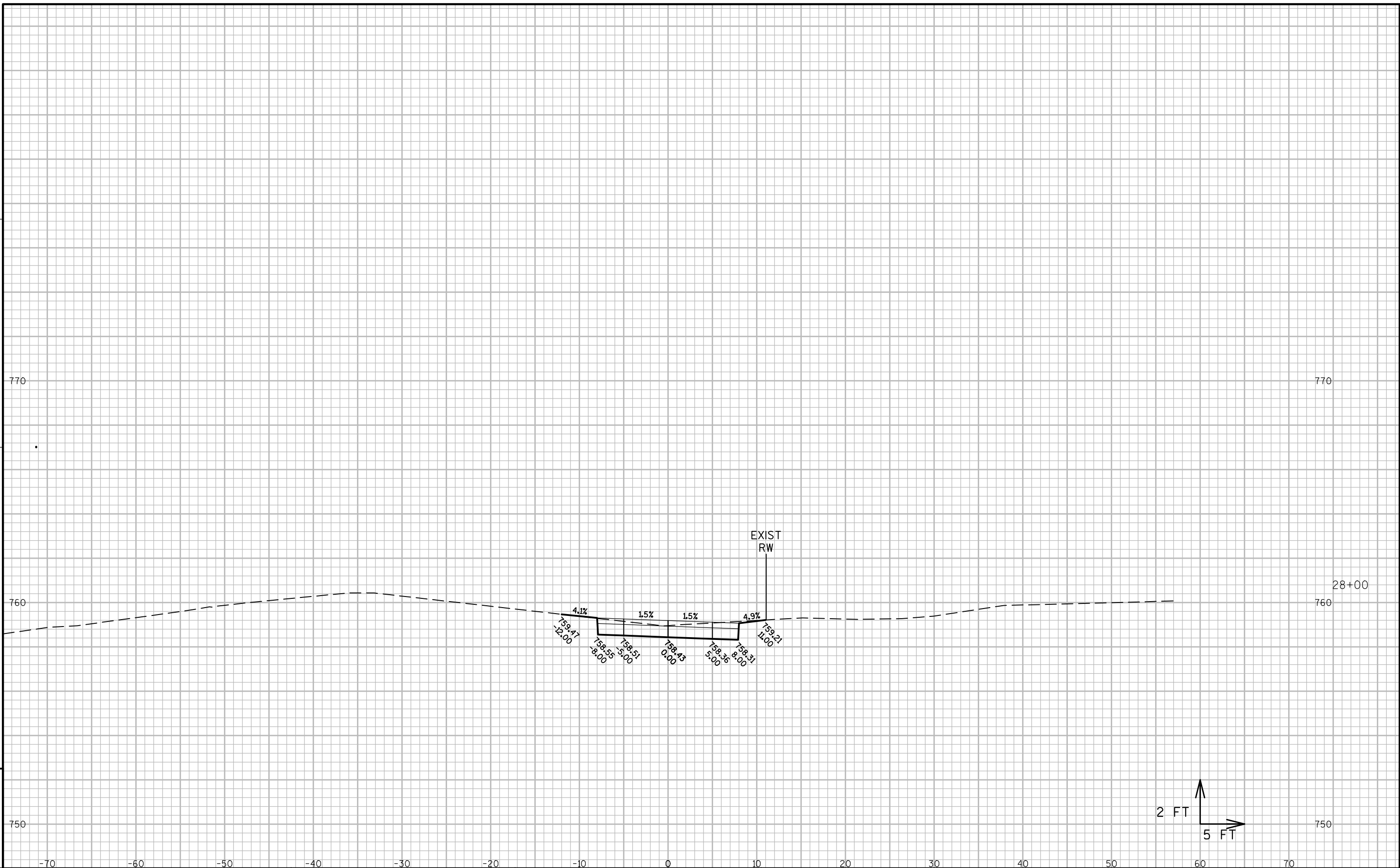
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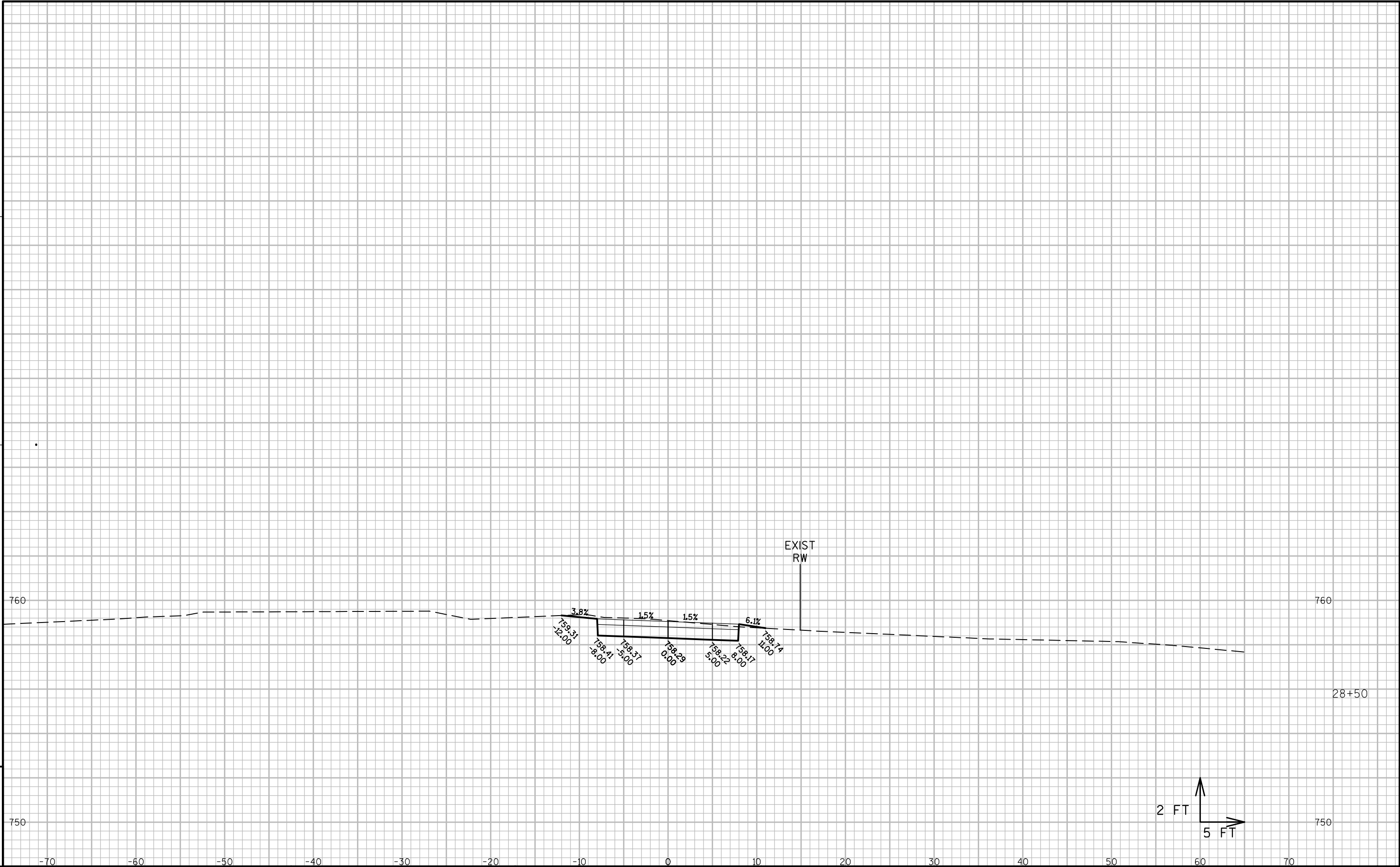


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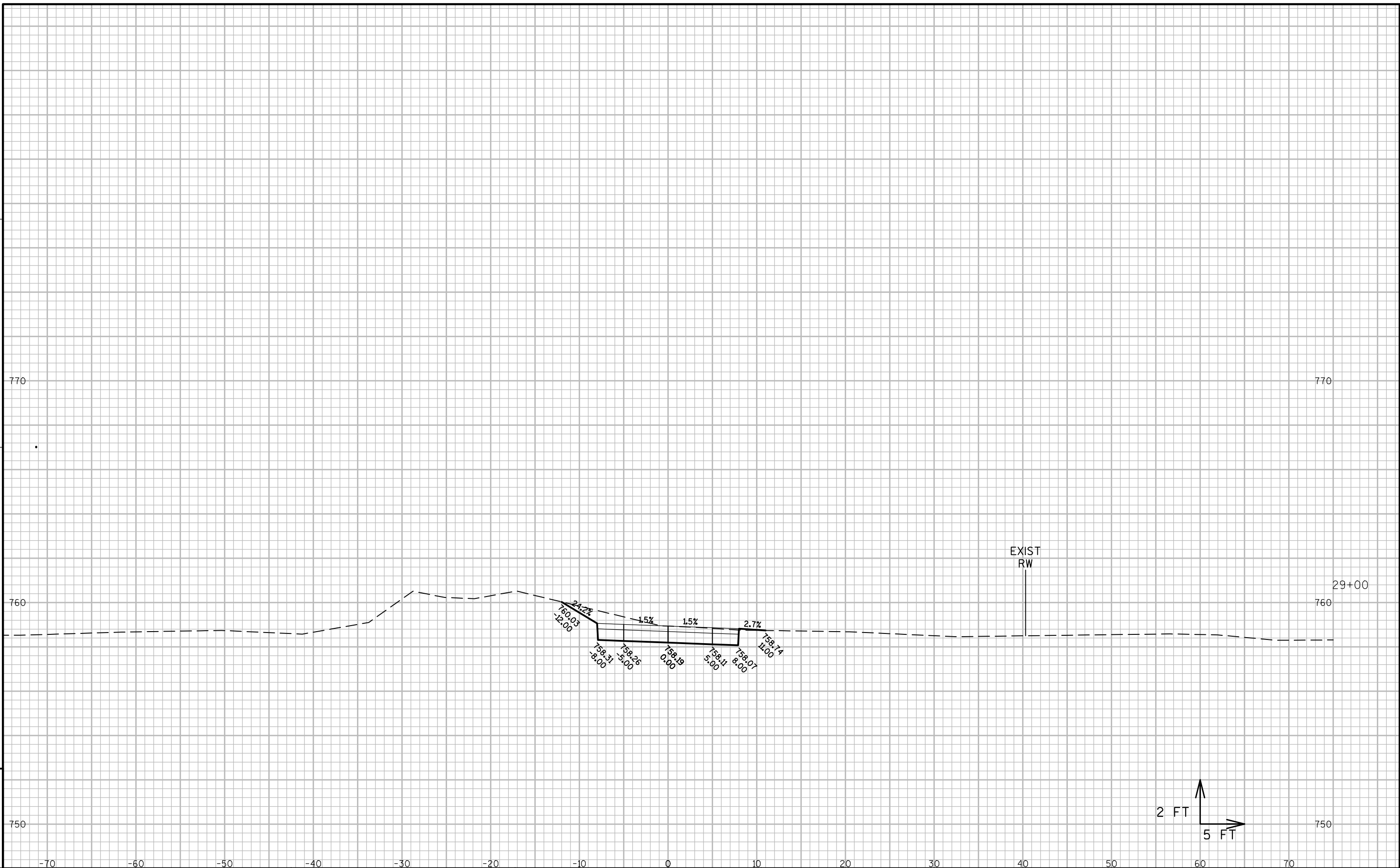
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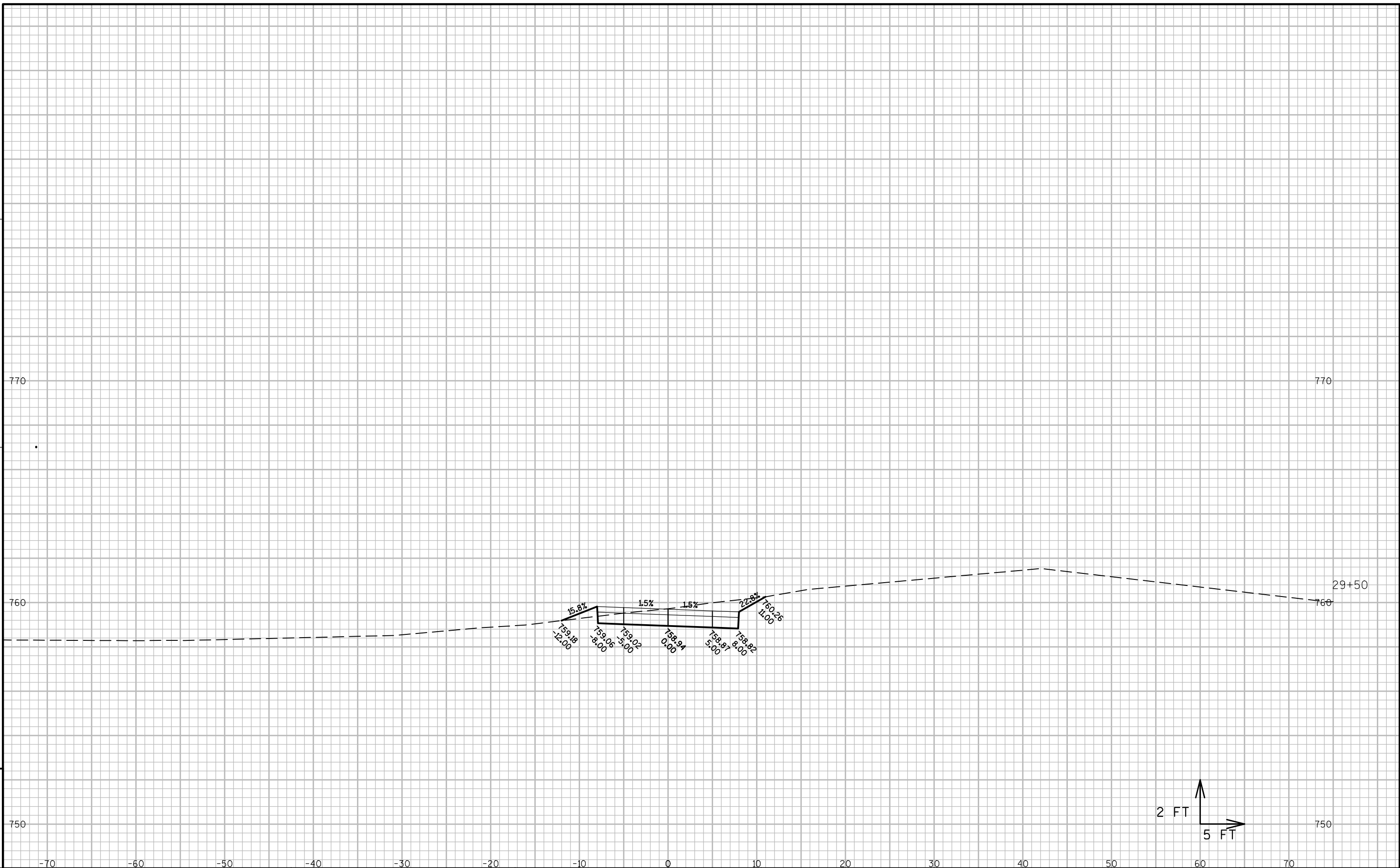


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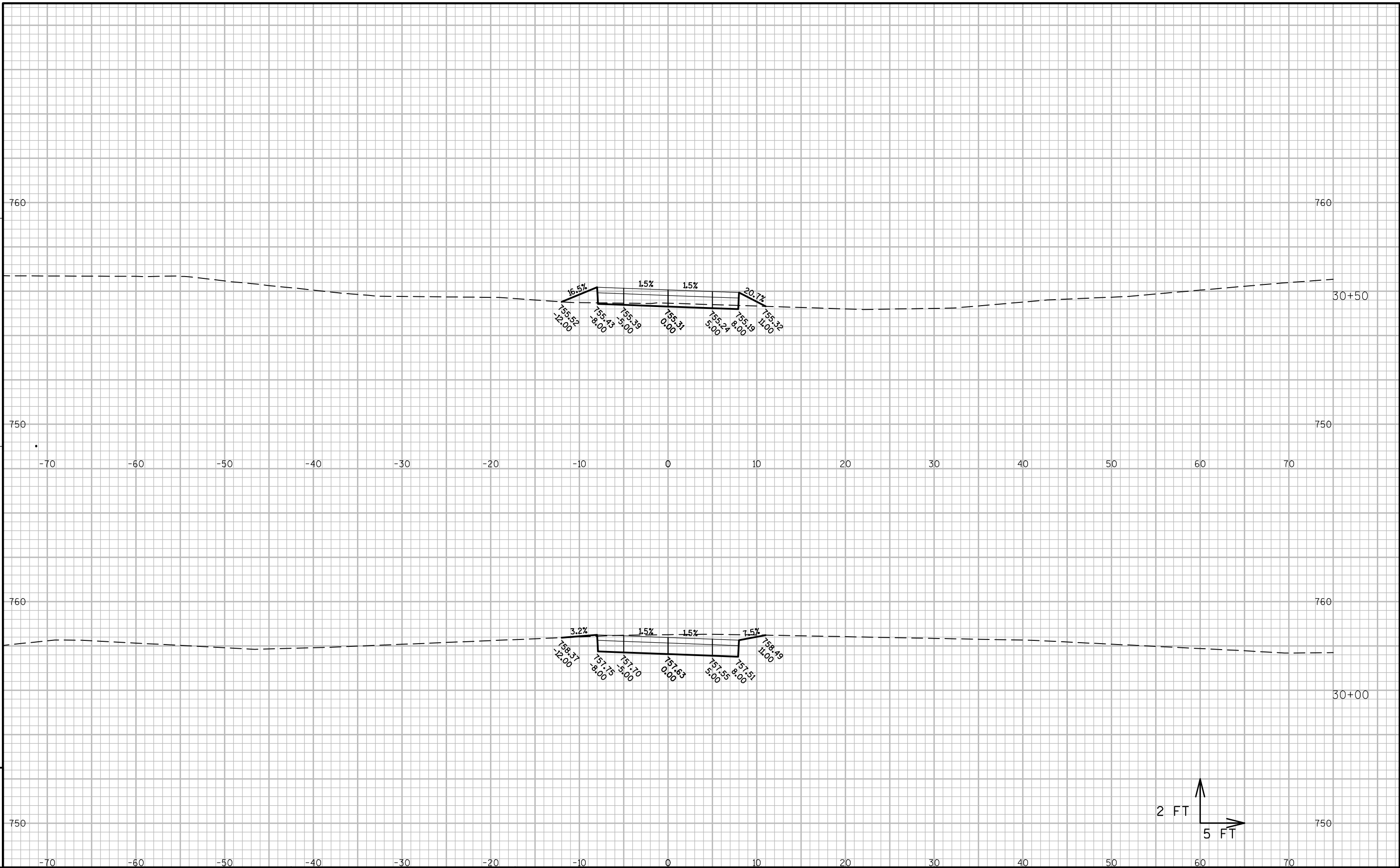
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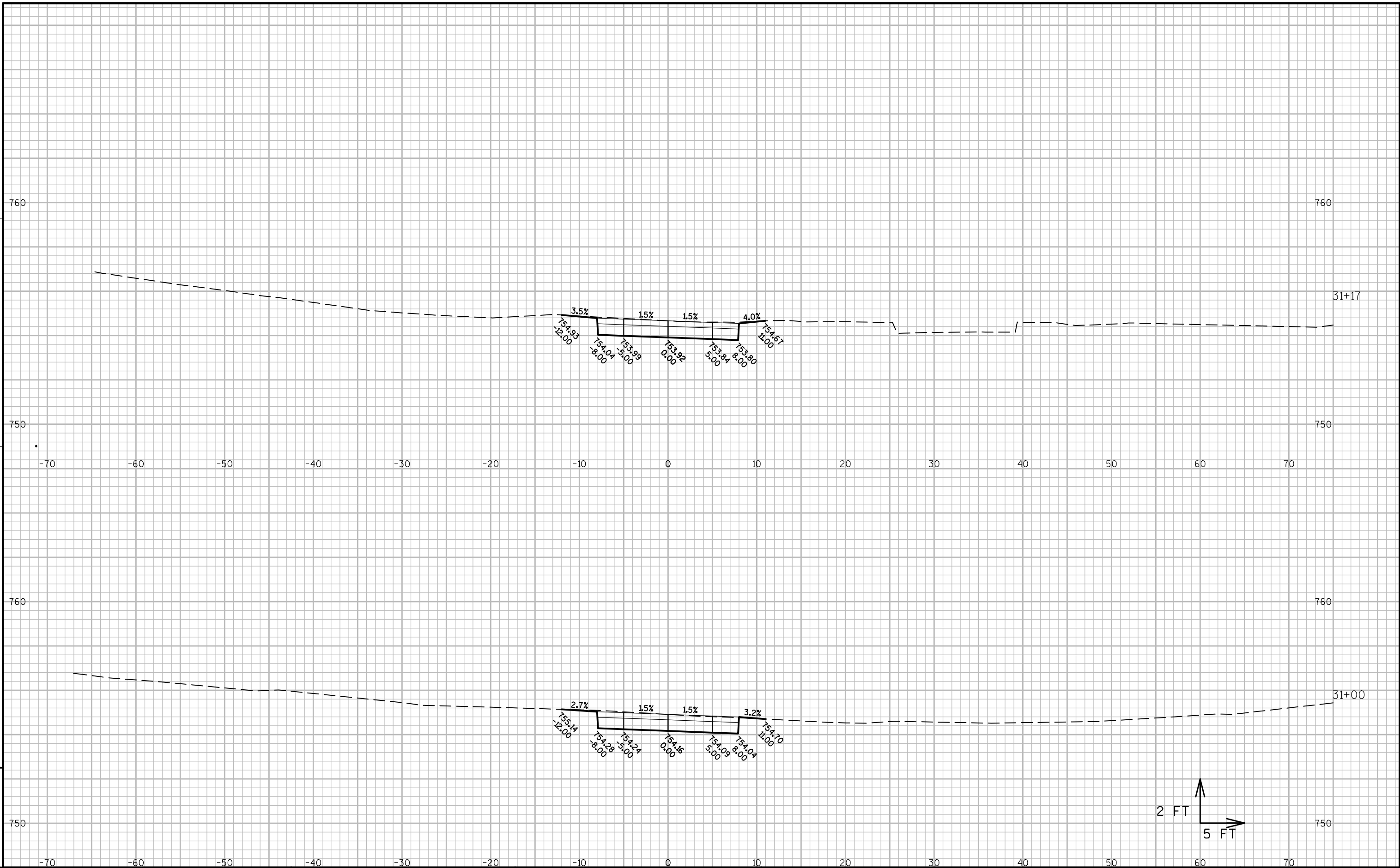


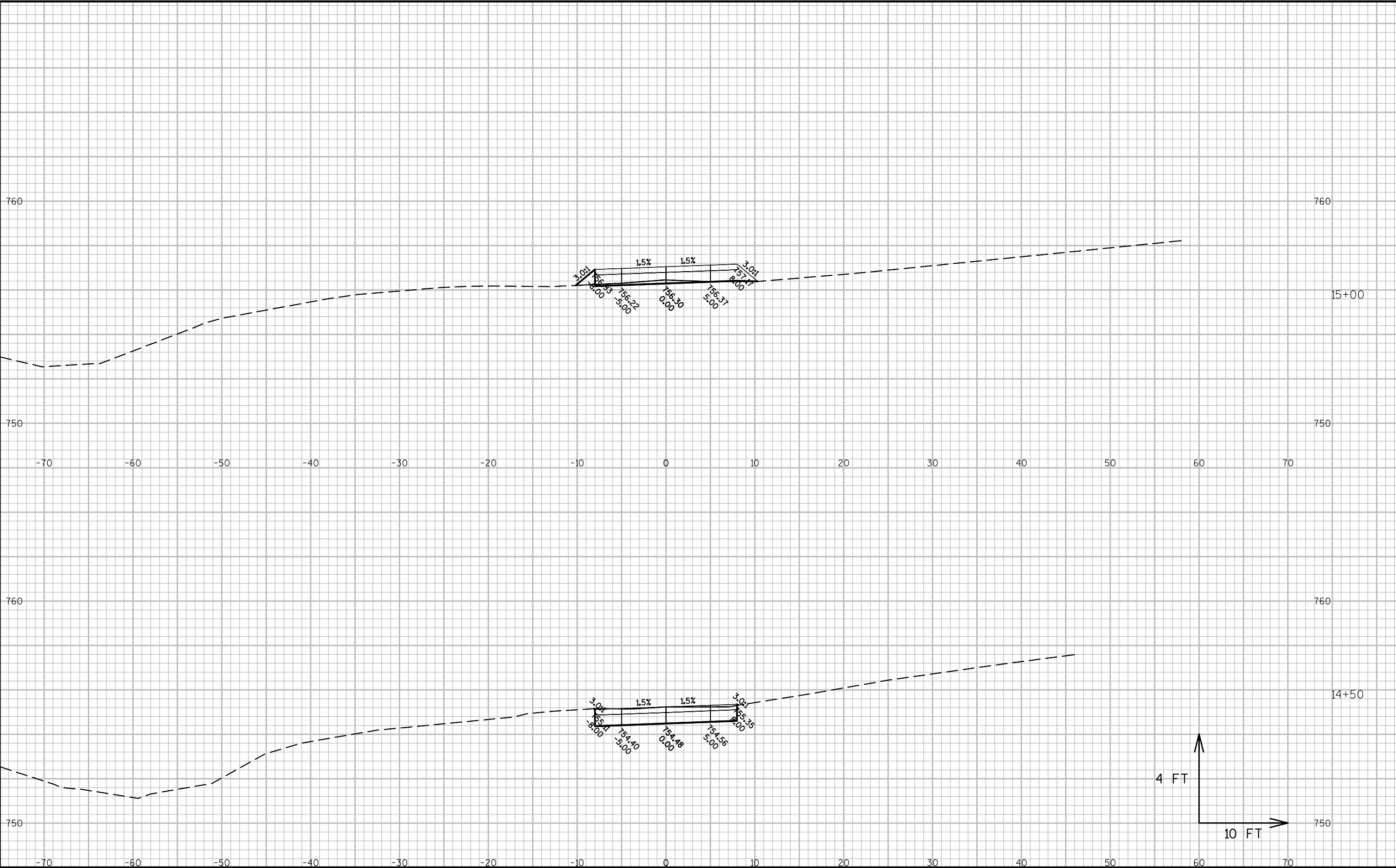


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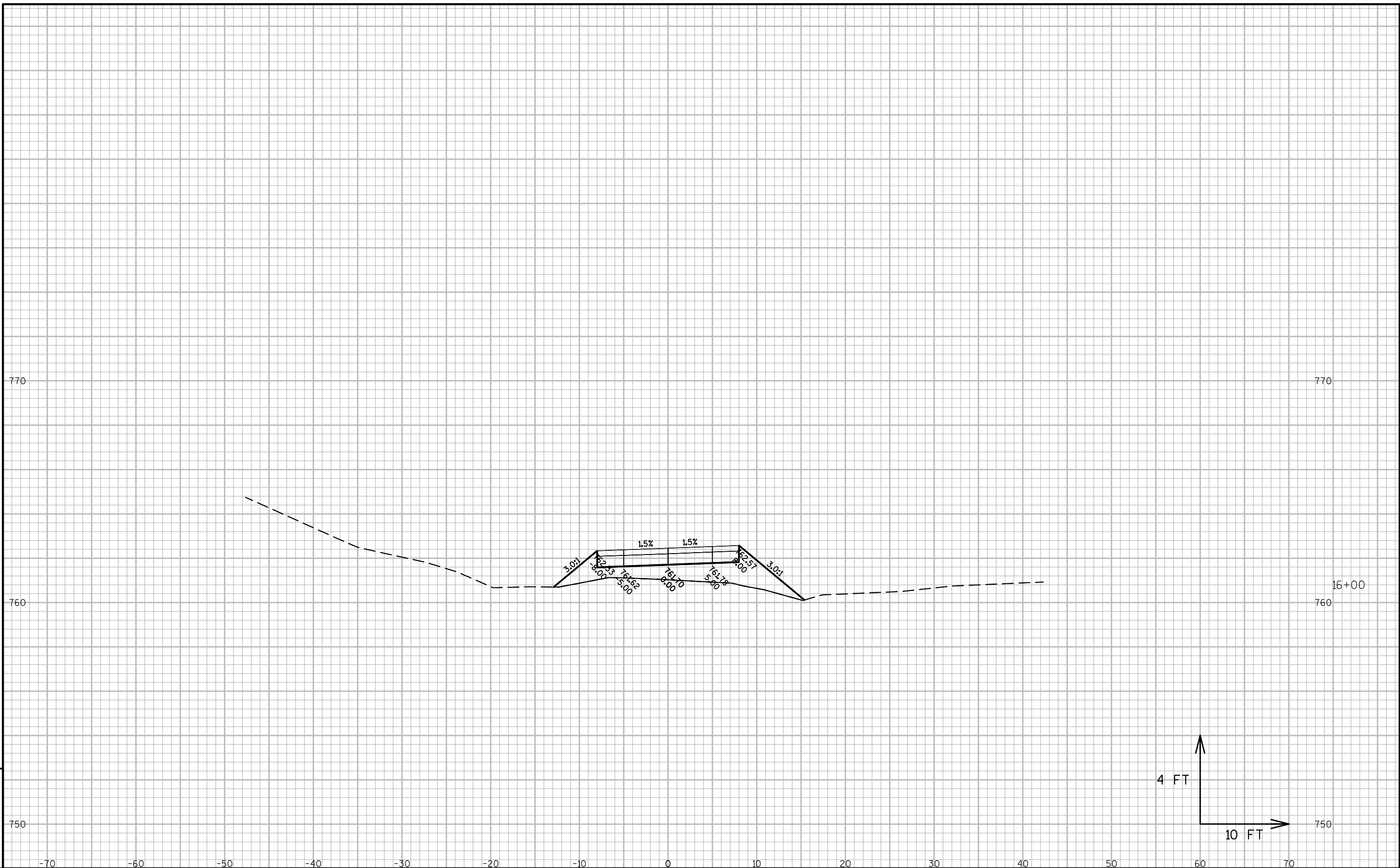






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EPlans Preliminary Sheet Numbering Tool

This sheet: ftp://ftp.dot.state.wi.us/transp/roads/eplans/prelim_sheet_numbers.pdf

Notes

- Acrobat 5 or higher is required to use this tool.
- The Bureau of Highway Construction places sheet numbers in the final plan.
- This sheet is for placing preliminary sheet numbers with a "PRE_" prefix.
- If a plan contains multiple projects, number each plan individually.
- Leave this sheet in the plan.

TO ADD PRELIMINARY SHEET NUMBERS

1. Insert this sheet at the end of the plan

- a. With the plan open in Acrobat, select Document > Insert Pages.
- b. In the Select File to Insert dialog box, select this file (prelim_sheet_numbers.pdf)
- c. In the Insert dialog box, choose After for Location and Last page for Page.
- d. Click OK.

2. Click the Place Preliminary Sheet Numbers button

- a. Go to the last sheet of the plan.
- b. Click the Place Preliminary Sheet Numbers button once.
(The preliminary sheet number appears in the bottom right corner of the sheets.
The number should match the page number in the Acrobat Status bar).

3. Re-Save the PDF

- a. Select File > Save As and save the PDF.

TO REMOVE PRELIMINARY SHEET NUMBERS