

LETTING ITEM NUMBER

04A

LETTING DATE

22-SEP. 2023

LETTING CONTRACT NUMBER

WI060

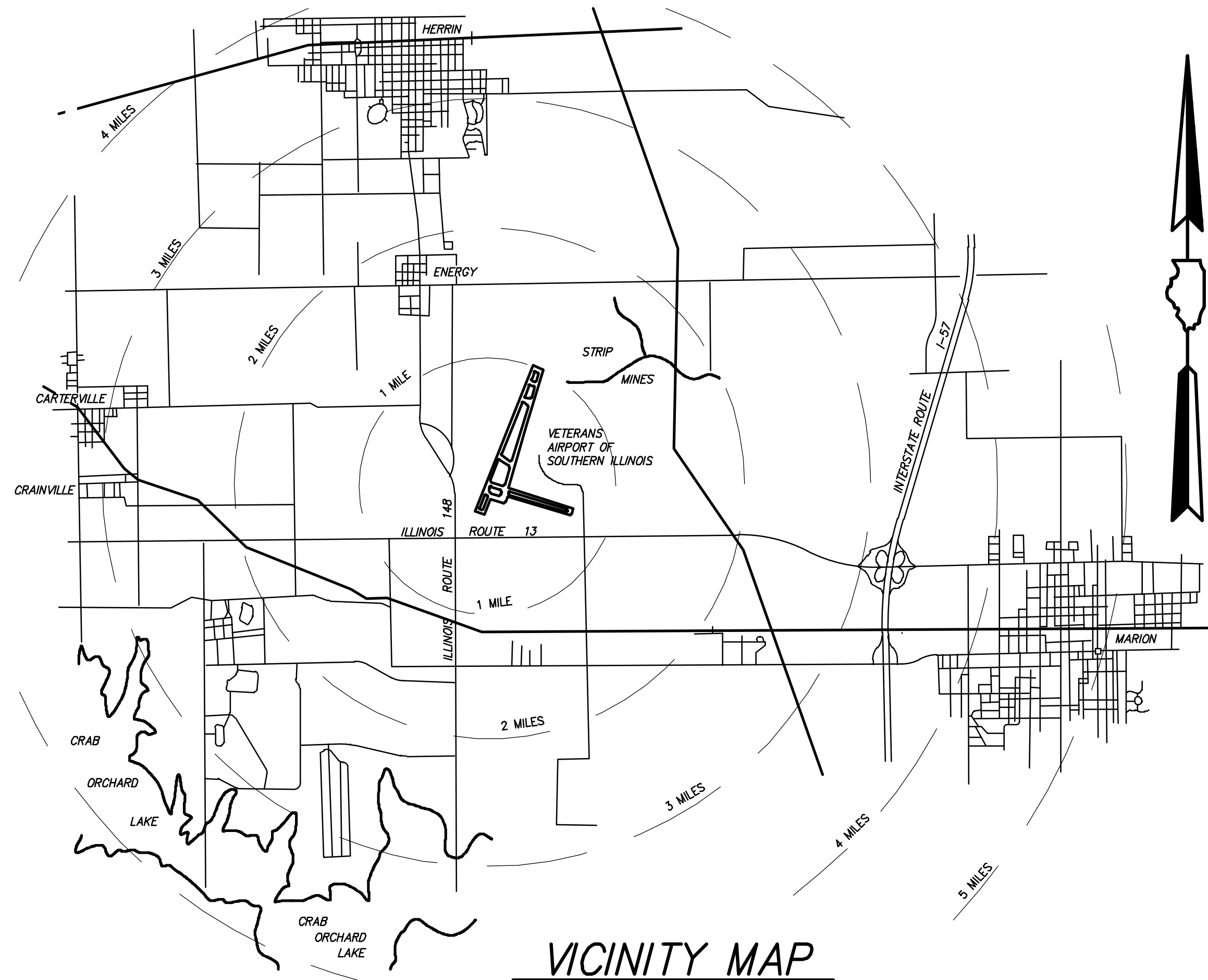
CONSTRUCTION PLANS FOR RE-BID

EXTEND FIXED BASE OPERATOR ACCESS ROAD AT VETERANS AIRPORT OF SOUTHERN ILLINOIS MARION - HERRIN, WILLIAMSON COUNTY, ILLINOIS

DATE : JULY 28, 2023
MWA-5048

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BOARD MEMBERS

CHAIRMAN: JAVIER MUNIZ

MEMBERS: RANDY YOUNGBLOOD
BOB MEES
MICHAEL TROOP
B.W. BRUCE

SECRETARY: JOHN O'KEEFE

AIRPORT DIRECTOR: DOUG KIMMEL



EXPIRES : NOVEMBER 30, 2023

PLANS PREPARED BY :

HORNER SHIFRIN
410 NORTH COURT ST.
MARION, ILLINOIS 622859
618-993-8411 FAX 618-993-8750
WWW.HORNERSHIFRIN.COM

WILLIAMSON COUNTY
AIRPORT AUTHORITY

REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS
NO. 053881

W. Brian Ziegler
W. BRIAN ZIEGLER

SUBMITTED _____ ENGINEER

DATE : 04/28/2023

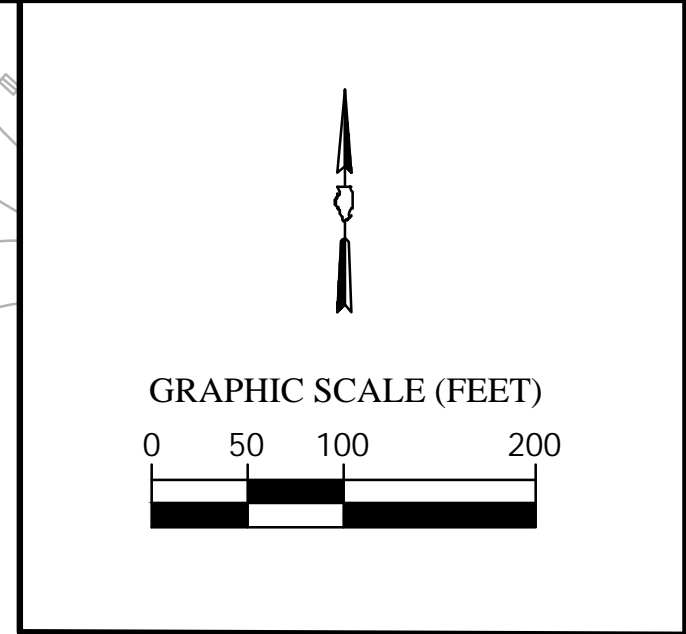
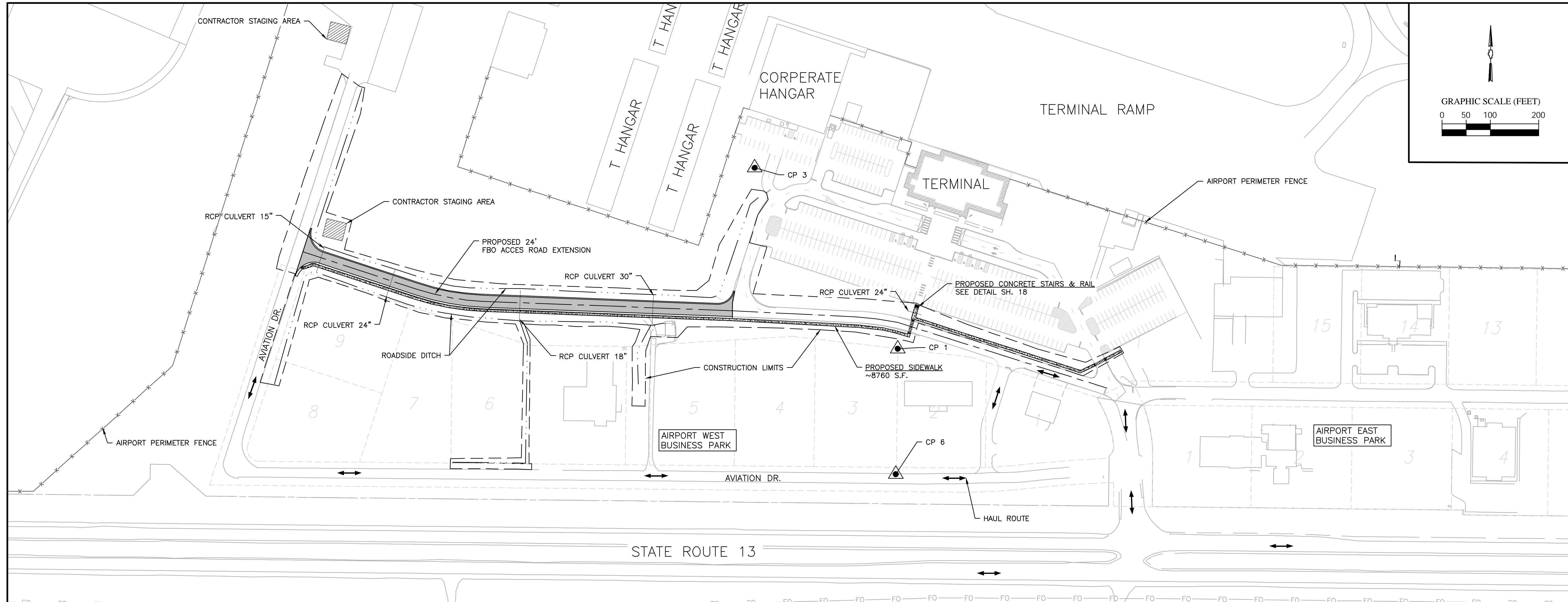
APPROVED *[Signature]* CHAIRMAN

DATE : 04/28/2023

APPROVED *[Signature]* SECRETARY

DATE : 04/28/2023

PROJECT 22140



GENERAL NOTES

THE FOLLOWING STANDARDS SHALL CONTROL ALL MATERIALS AND METHODS OF CONSTRUCTION ON THIS PROJECT, UNLESS OTHERWISE NOTED:

- ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORT," ADOPTED APRIL 1, 2012
- ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," ADOPTED APRIL 1, 2022
- ILLINOIS DEPARTMENT OF TRANSPORTATION'S "HIGHWAY STANDARDS"
- ILLINOIS DEPARTMENT OF TRANSPORTATION "BUREAU OF LOCAL ROADS AND STREETS MANUAL" REVISED MARCH 2022
- AC 150/5370-2G "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION"
- AND THE PROJECT SPECIFICATIONS

- THE SCOPE OF WORK SHEET IS INTENDED ONLY AS A GENERAL DESCRIPTION OF WORK ITEMS, THEIR APPROXIMATE LOCATIONS, AND LIMITS FOR THE PURPOSE OF UNDERSTANDING THE SCOPE OF THE PROJECT. IT SHALL NOT BE USED AS A CONSTRUCTION PLAN. REFER TO THE PLAN SHEETS WHICH FOLLOW FOR DETAILED CONSTRUCTION REQUIREMENTS, LOCATIONS, AND ITEMS OF WORK.
- THESE DRAWINGS COVER THE REQUIREMENTS FOR THE CONSTRUCTION OF THE FIXED BASE OPERATOR ACCESS ROAD PROJECT AND INCLUDES, BUT IS NOT LIMITED TO BORROW EXCAVATION, SUB-BASE GRANULAR MATERIAL, HMA PAVEMENT, SIDEWALK INSTALLATION, ROADSIDE DITCH EXCAVATION, AS WELL AS REINFORCED CONCRETE PIPE CULVERT PLACEMENT.
- THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT, PERMITS AND TRANSPORTATION NECESSARY TO CONSTRUCT ALL ELEMENTS AS DESCRIBED IN THE CONSTRUCTION PLANS AND SPECIFICATIONS.
- THE PROJECT PAY IS INTENDED TO BE INCLUSIVE OF ALL WORK TO BE PERFORMED AS SHOWN IN THESE PLANS. ALL INCIDENTAL WORK TO COMPLETE THE PROJECT TO THE SATISFACTION OF THE ENGINEER SHALL BE INCLUDED IN THE COST OF PERFORMING THESE ITEMS.
- THE RULES, REGULATIONS, AND REFERENCE SPECIFICATIONS ENUMERATED HEREIN SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS. THEY SHALL NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING HIGHER GRADES OF MATERIAL AND WORKMANSHIP THAN ARE SPECIFIED HEREIN, OR WHEN SO REQUIRED.
- THE CONTRACTOR SHALL PAY CLOSE ATTENTION TO THE SAFETY AND PHASING PLANS AND TO THE AIRPORT SAFETY REQUIREMENTS SECTION OF THE SPECIFICATIONS. THESE SHALL BE STRICTLY ENFORCED.
- UPON COMPLETION OF THE WORK, ALL SURPLUS MATERIAL AND EQUIPMENT BELONGING TO THE CONTRACTOR (AND HIS/HER SUBCONTRACTORS) SHALL BE REMOVED FROM THE SITE.
- THE CONTRACTOR SHALL ATTEND A PRECONSTRUCTION CONFERENCE PRIOR TO BEGINNING WORK TO COORDINATE WORK PROCEDURES WITH ALL INTERESTED PARTIES. THE CONTRACTOR SHALL ALSO ATTEND ANY JOB MEETINGS CALLED BY THE ENGINEER.
- ALL OPEN TRENCHES, EXCAVATION, AND STOCKPILED MATERIAL SHALL BE PROMINENTLY MARKED, LIGHTED, BARRICADED, ETC., AS DEEMED NECESSARY BY THE AIRPORT, FAA, AND/OR THE ENGINEER.
- CONTRACT TIME FOR THE BASE BID SHALL BE 91 CALENDAR DAYS FROM THE DATE OF NOTICE TO PROCEED. NOTICE TO PROCEED IS ANTICIPATED FOR MAY 2024. LIQUIDATED DAMAGES IN ACCORDANCE WITH IDOT SPECIFICATION.
- THE CONTRACTOR SHALL SUPPLY ONE SET OF AS-BUILT DRAWINGS TO THE ENGINEER AT THE COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL KEEP THE RED LINE DRAWINGS SET ON SITE AND SHALL UPDATE ON A REGULAR BASIS THROUGHOUT THE PROJECT.
- ALL CONSTRUCTION ACTIVITIES SHALL CONFORM TO THE CURRENT VERSION OF FAA ADVISORY CIRCULAR 150/5370-2, "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION", AND THE AIRPORT SAFETY REQUIREMENTS CONTAINED IN THIS SAFETY AND PHASING PLAN.
- THE CONTRACTOR SHALL WORK ONLY WITHIN THE LIMITS SHOWN ON THE PLANS. ALL EQUIPMENT AND PERSONNEL SHALL BE LIMITED TO DESIGNATED HAUL ROUTES OR WITHIN THE CONSTRUCTION LIMITS.
- THE CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGE TO AIRPORT PROPERTY, TO THE SATISFACTION OF THE AIRPORT, CAUSED BY CONSTRUCTION PERSONNEL OR ACTIVITIES AT HIS/HER OWN EXPENSE.
- EXISTING TURF AREAS DISTURBED BY THE CONTRACTORS OPERATIONS SHALL BE RESTORED AT HIS/HER EXPENSE TO THE SATISFACTION OF THE AIRPORT.
- HEIGHT OF CONSTRUCTION EQUIPMENT MAXIMUM IS ANTICIPATED TO BE 25'.
- HORNER AND SHIFRIN WILL ESTABLISH VERTICAL AND HORIZONTAL CONTROL OF CONSTRUCTION AREA.

FACTORS USED FOR QUANTITY CALCULATIONS ARE AS FOLLOWS:
 ALL AGGREGATE 2.0 TON/CU YD
 TRENCH BACKFILL 2.0 TON/CU YD

TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE APPLICABLE STANDARDS AS INCLUDED WITH THE CONTRACT DOCUMENTS, EXCEPT AS MODIFIED IN THE PLANS AND AS DIRECTED BY THE ENGINEER.

THE FOLLOWING UTILITY COMPANIES HAVE FACILITIES WITHIN THE LIMITS OF CONSTRUCTION. ADJUSTMENTS IN UTILITY LOCATIONS WILL BE MADE BY THE OWNER, UNLESS OTHERWISE NOTED ON THE PLANS.

- ELECTRIC**
 AMEREN
 1800 W. MAIN ST.
 MARION, ILLINOIS 62959
 618-993-3311
- TELEPHONE**
 FRONTIER
 208 WEST UNION STREET
 MARION, ILLINOIS 62959
 309-663-3422
- FIBER OPTIC**
 CLEARWAVE
 3000 W DEYOUNG ST
 MARION, ILLINOIS 62959
 618-998-0531
- FUTVA FIBER
 600 HALFWAY RD Ste 104
 MARION, IL 62959
 618-736-2901
- SEWER**
 CITY OF MARION
 100 PUBLIC SQUARE
 MARION, ILLINOIS 62959
 SEWER DEPT. 618-993-5663
- WATER**
 CITY OF HERRIN
 300 N PARK AVE
 HERRIN, ILLINOIS 62948
 618-942-3175

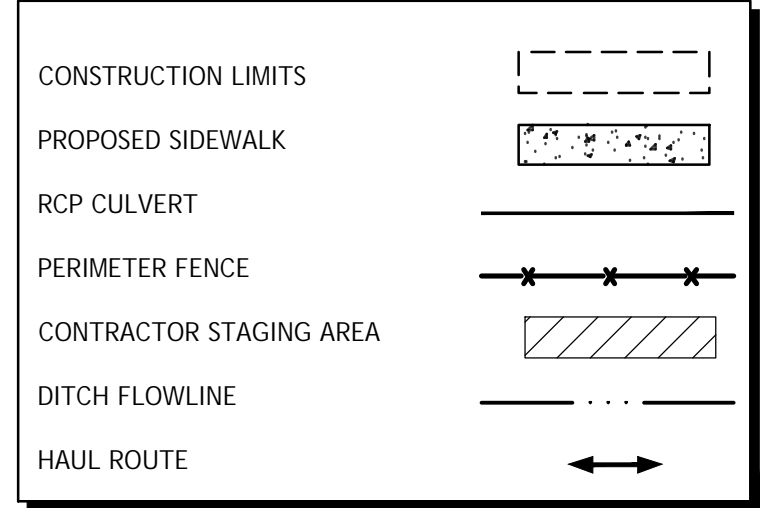
CONTRACTOR SHALL CONTACT J.U.L.I.E. OPERATOR AT 1-800-892-0123 FOR MARKING OF EXISTING UNDERGROUND UTILITIES. J.U.L.I.E. SHOULD BE CONTACTED A MINIMUM OF 96 HOURS IN ADVANCE OF CONSTRUCTION. CONTRACTOR SHALL MEET ALL REQUIREMENTS FOR CROSSING OF ANY EXISTING UTILITIES. EXISTING UTILITIES ARE SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION AND THEIR TRUE LOCATIONS ARE NOT GUARANTEED TO BE AS SHOWN IN THE PLANS.

SURVEY CONTROL				
POINT #	NORTHING	EASTING	ELEV.	DESCRIPTION
CP 1	393282.9020	788151.5980	451.850	CP RB - PRICE
CP 3	394157.1500	787855.8430	456.905	CP RB
CP 6	393523.1980	788147.5470	450.990	CP MAG

SURVEY CONTROL NOTES

- SURVEY CONTROL SHALL BE SET BY HORNER AND SHIFRIN PRIOR TO START OF CONSTRUCTION.

LEGEND



STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-004515

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HORNER SHIFRIN
 410 NORTH COURT ST,
 MARION, ILLINOIS 622959
 618-993-6411 FAX 618-993-6750
 WWW.HORNERSHIFRIN.COM

SCOPE OF WORK / SAFETY & PHASING
EXTEND FIXED BASE OPERATOR ACCESS ROAD
VETERANS AIRPORT OF SOUTHERN ILLINOIS

Date 3/22/2023 DR. By BLW CK'D By MKW
 Scale 1" = 100' Job No. 22140 Sheet No. 2 of 19

LETTING CONTRACT NUMBER
 W1060

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SUMMARY OF QUANTITIES					
ITEM NO.	PAY ITEM	DESCRIPTION	UNIT	EST. QUANTITIES	AS-BUILT QUANTITIES
1	AR150510	ENGINEER'S FIELD OFFICE	L SUM	1.00	
2	AR150520	MOBILIZATION	L SUM	1.00	
3	AR152410	UNCLASSIFIED EXCAVATION	CU YD	700.00	
4	AR152442	OFFSITE BORROW EXCAVATION	CU YD	4,820.00	
5	AR156510	SILT FENCE	FOOT	1,000.00	
6	AR156511	DITCH CHECK	EACH	3.00	
7	AR156520	INLET PROTECTION	EACH	1.00	
8	AR156540	RIPRAP	SQ YD	150.00	
9	AR208530	AGGREGATE SUBBASE COURSE	TON	1,770.00	
10	AR620520	PAVEMENT MARKING-WATERBORNE	SQ FT	955.00	
11	AR620900	PAVEMENT MARKING REMOVAL	SQ FT	8.00	
12	AR701324	24" RCP, CLASS II	FOOT	63.00	
13	AR701515	15" RCP, CLASS IV	FOOT	41.00	
14	AR701518	18" RCP, CLASS IV	FOOT	53.00	
15	AR701530	30" RCP, CLASS IV	FOOT	56.00	
16	AR701830	TRENCH BACKFILL	CU YD	40.00	
17	AR751570	MANHOLE-SPECIAL	EACH	1.00	
18	AR752415	PRECAST REINFORCED CONC. FES 15"	EACH	2.00	
19	AR752418	PRECAST REINFORCED CONC. FES 18"	EACH	2.00	
20	AR752424	PRECAST REINFORCED CONC. FES 24"	EACH	4.00	
21	AR752430	PRECAST REINFORCED CONC. FES 30"	EACH	3.00	
22	AR801359	ROADWAY LIGHTING	L SUM	1.00	
23	AR801360	REFLECTIVE DELINEATOR-FLEXIBLE	EACH	8.00	
24	AR801361	CONCRETE STRUCTURES-STAIRWAY	L SUM	1.00	
25	AR801362	DETECTABLE WARNING	SQ FT	8.00	
26	AR801363	PORTLAND CEMENT CONCRETE, 4 INCH	SQ FT	8,760.00	
27	AR801365	ROADWAY SIGNAGE	SQ FT	106.00	
28	AR801366	TELESCOPING STEEL SIGN SUPPORT	FOOT	100.00	
29	AR801369	HMA SC IL-9.5 C N70	TON	250.00	
30	AR801370	HMA BC IL-19.0 N70	TON	350.00	
31	AR901510	SEEDING	ACRE	2.30	
32	AR908510	MULCHING	ACRE	2.30	

OFFSITE BORROW EXCAVATION VOLUME INCLUDES A FILL FACTOR OF 15%

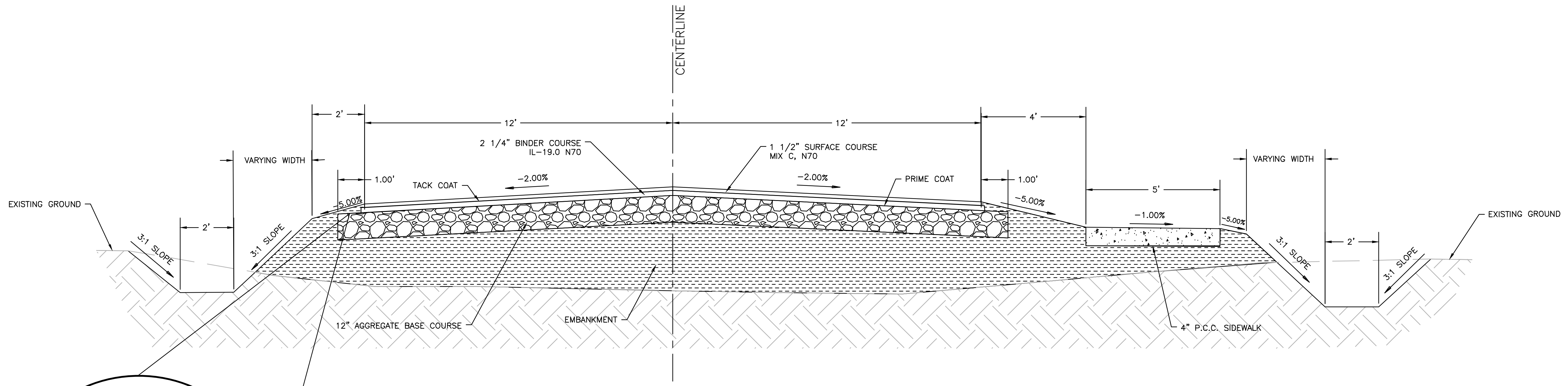
STRUCTURE DATA TABLE								
Sta.	STRUCT. No.	OFFSET, SIDE	PIPE LENGTH	CLASS, MATERIAL	PIPE SIZE	SLOPE	FLOW-LINE INVERTS	
							UPSTREAM	DOWNSTREAM
0+50.00	100	18.636 LT	41"	III, RCP	15"	0.96%	442.802'	442.408'
0+50.00	101	22.247 LT	6'-1"	RC FLARED END SECTION	15"	0.96%	442.860'	442.802'
0+50.00	102	31.097 RT	6'-1"	RC FLARED END SECTION	15"	0.96%	442.408'	442.350'
2+03.80	200	18.636 LT	47"	III, RCP	24"	1.05%	443.675'	443.185'
2+03.80	201	24.779 LT	6'-1"	RC FLARED END SECTION	24"	1.05%	443.737'	443.675'
2+03.80	202	34.051 RT	6'-1"	RC FLARED END SECTION	24"	1.05%	443.185'	443.119'
4+75.00	300	22.243 LT	53'	III, RCP	18"	0.45%	444.453'	444.217'
4+75.00	301	28.323 LT	6'-1"	RC FLARED END SECTION	18"	0.45%	444.480'	444.453'
4+75.00	302	36.301 RT	6'-1"	RC FLARED END SECTION	18"	0.45%	444.217'	444.190'
7+50.00	400	19.547 LT	48'	III, RCP	30"	0.47%	446.354'	446.186'
7+50.00	401	26.919 LT	6'-1.75"	RC FLARED END SECTION	30"	0.47%	446.385'	446.354'
7+50.00	402	35.030 RT	6'-1.75"	RC FLARED END SECTION	30"	0.47%	446.186'	446.159'
12+93.33	500	29.976 LT	16'	III, RCP	24"	0.36%	451.530'	451.470'
12+77.63	501	29.455 LT	6'-1.5"	RC FLARED END SECTION	24"	0.36%	451.470'	451.450'
12+99.46	502	30.179 LT	6'-1.5"	RC FLARED END SECTION	24"	0.36%	451.550'	451.530'
8+86.34	600	25.895 LT	8'	III, RCP	30"	0.36%	447.840'	447.800'
8+81.52	601	29.680 LT	6'-1.75"	RC FLARED END SECTION	30"	0.36%	447.800'	447.770'
8+92.25	700	21.257 LT	-	MANHOLE, JUNCTION BOX	-	-	SEE ABOVE	SEE ABOVE

P:\Airport\22140 - Extend FBO Access Road\Drawings - Plans\03 SUMMARY OF QUANTITIES.dwg 7-28-23 03:01:42 PM mkwiggins

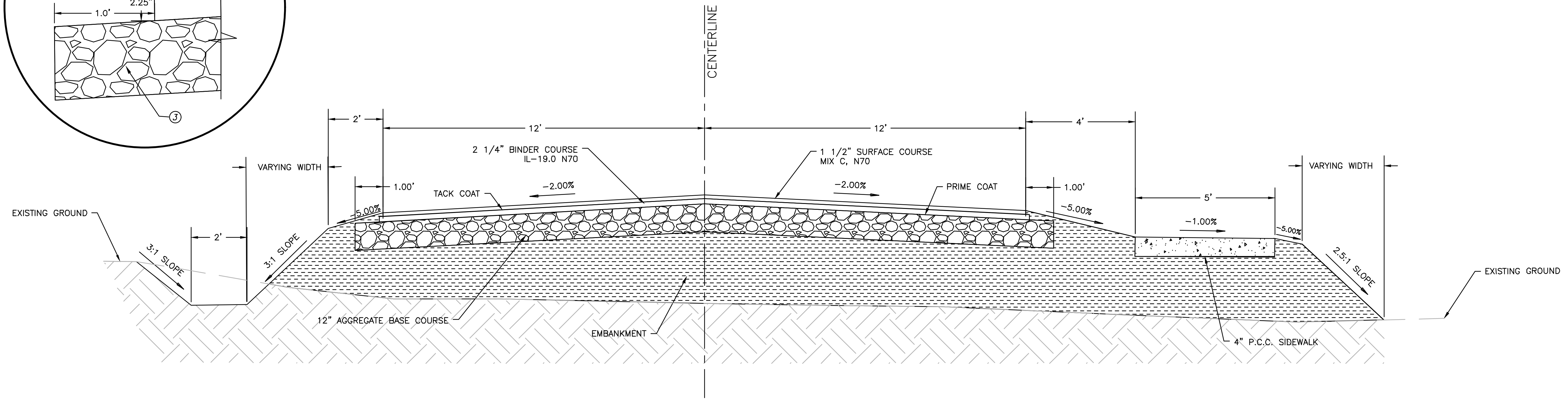
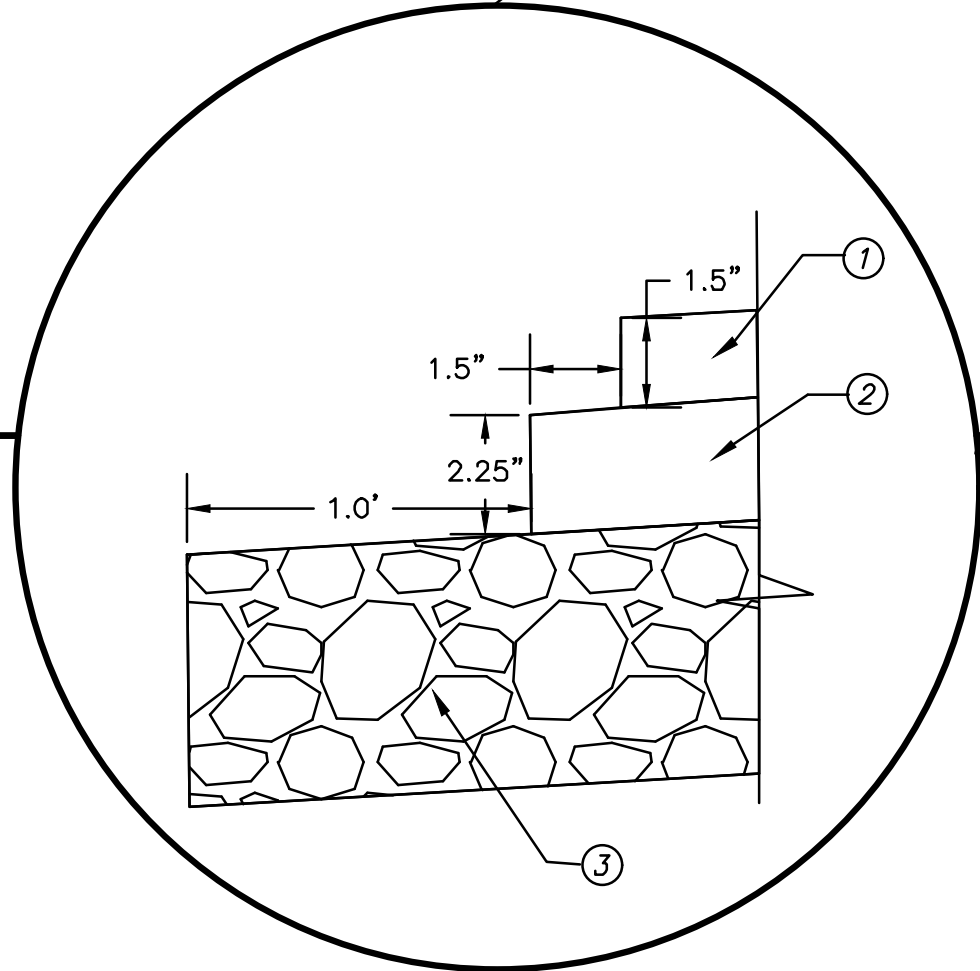
LETTING CONTRACT NUMBER
W1060

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 410 NORTH COURT ST, MARION, ILLINOIS 622959 618-993-6411 FAX 618-993-6750 WWW.HORNERSHIFRIN.COM	
SUMMARY OF QUANTITIES EXTEND FIXED BASE OPERATOR ACCESS ROAD VETERANS AIRPORT OF SOUTHERN ILLINOIS	
Date <u>3/22/2023</u>	DR. By <u>BLW</u> CK'D By <u>MKW</u>
Scale <u>NTS</u>	Job No. <u>22140</u> Sheet No. <u>3</u> of <u>19</u>

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TYPICAL SECTION
STATION 0+50.00 TO 7+50.00
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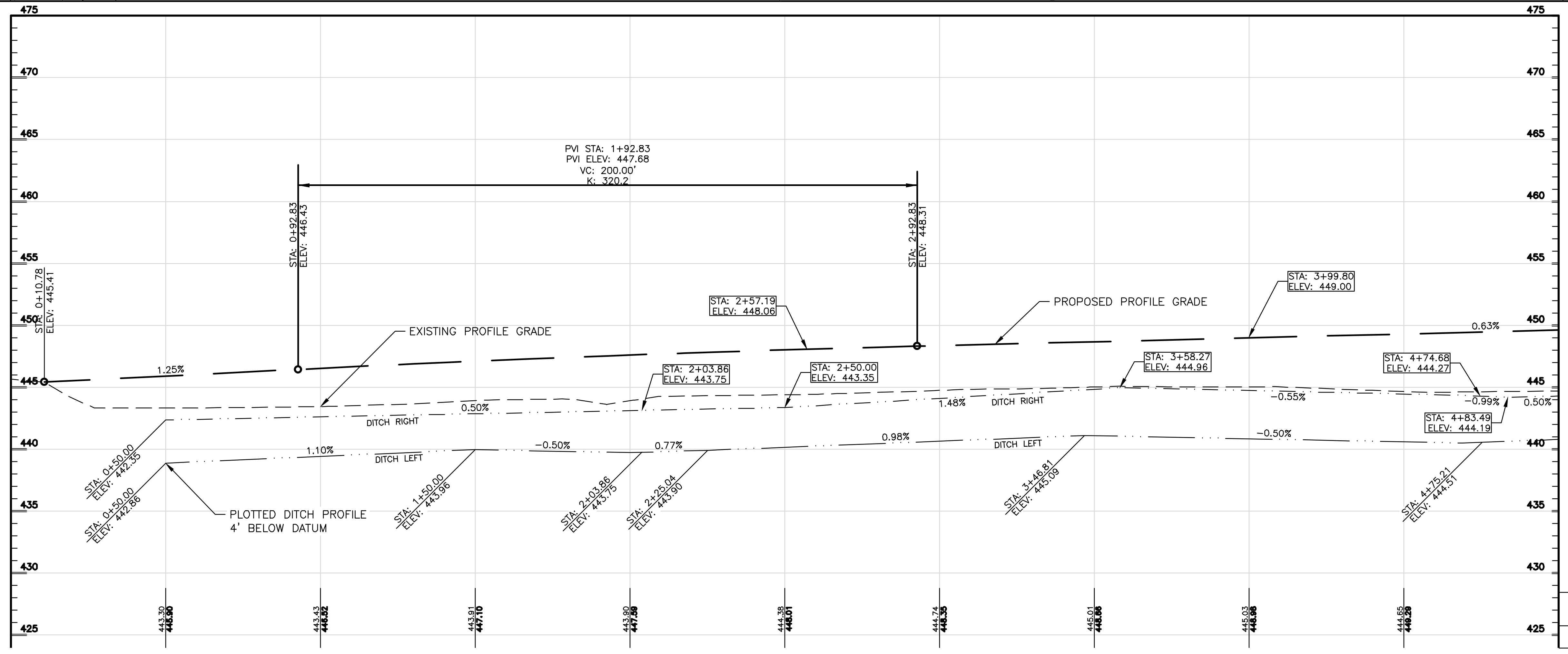
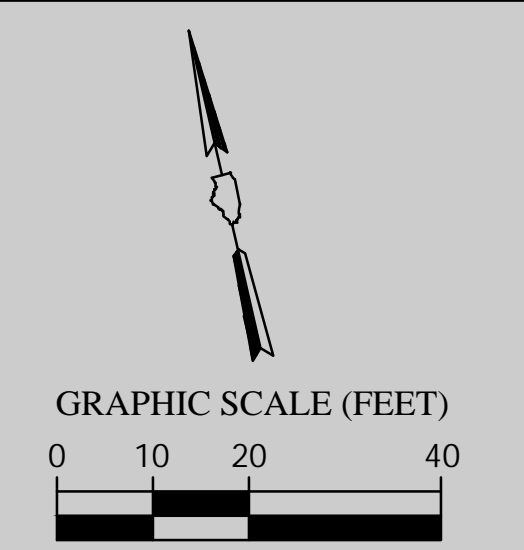
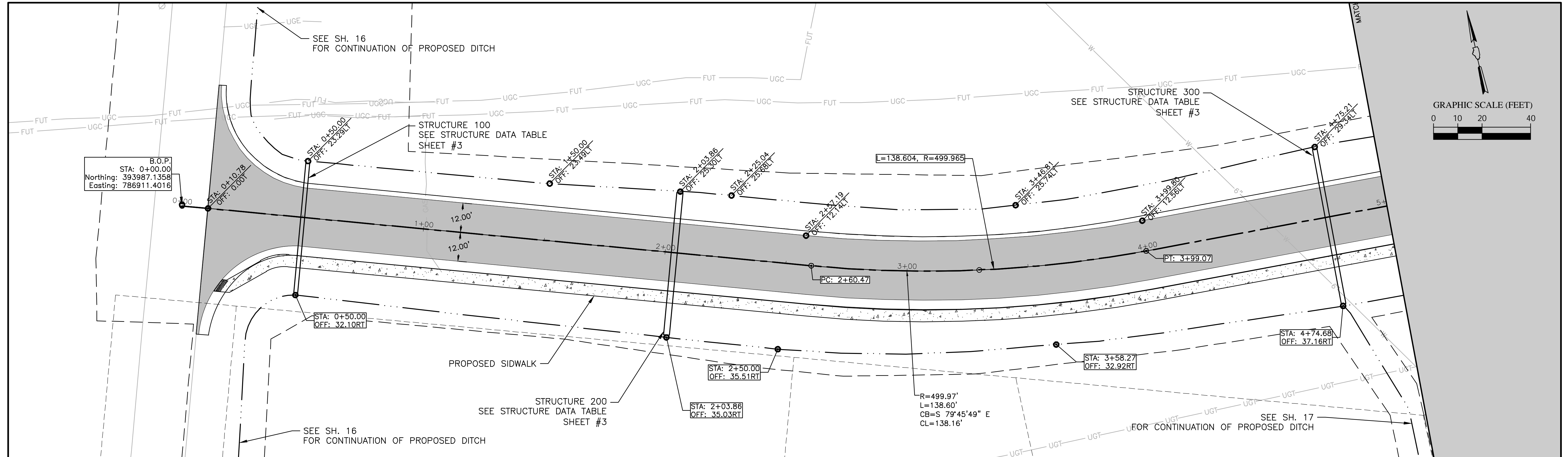


TYPICAL SECTION
STATION 7+50.00 TO 8+64.47
 NOT TO SCALE

- ① 1.5" HOT-MIX ASPHALT SURFACE COURSE MIX C, N70
- ② 2.25" HOT-MIX ASPHALT BINDER COURSE IL-19.0, N70
- ③ 12" AGGREGATE BASE COURSE

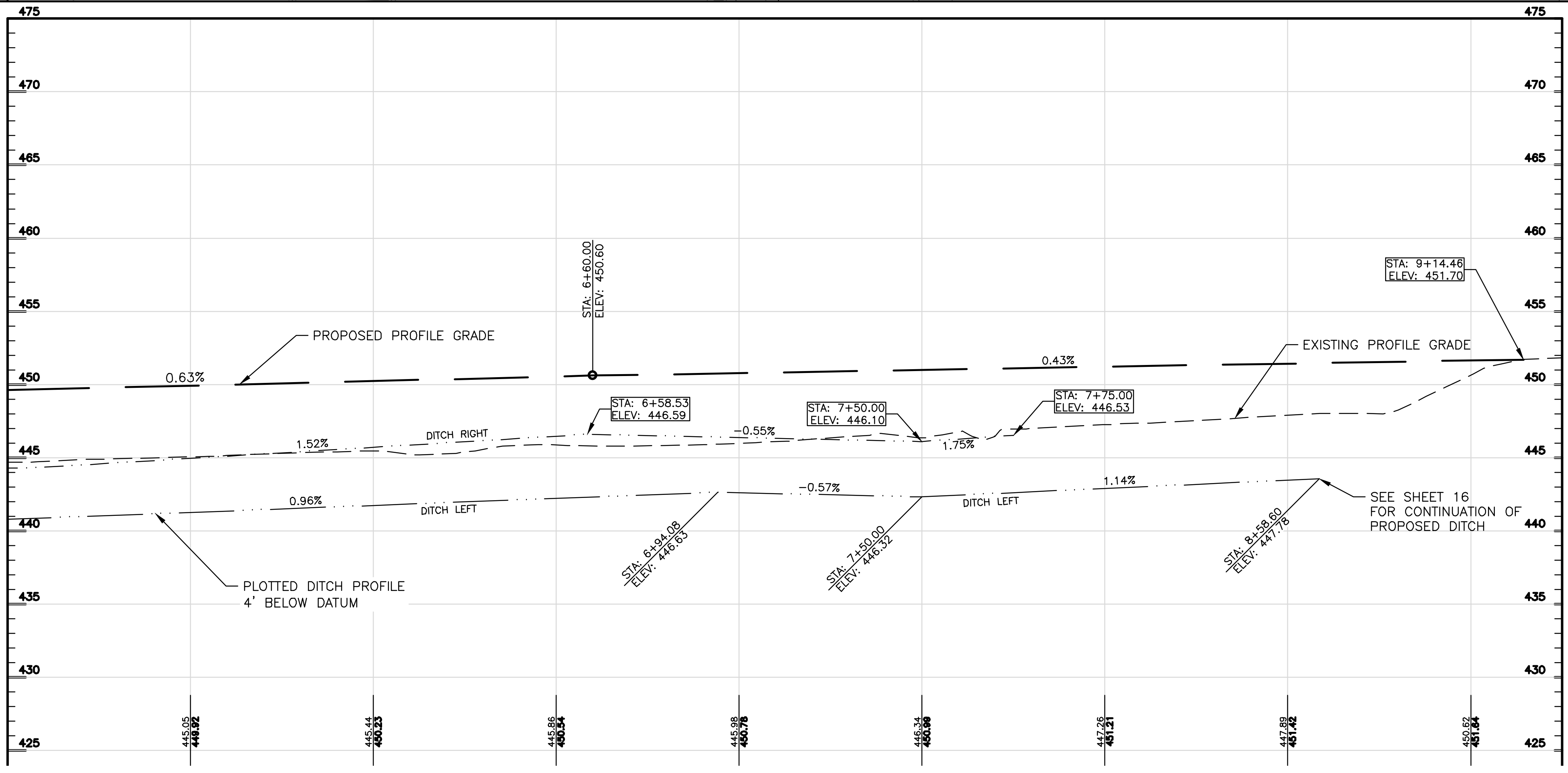
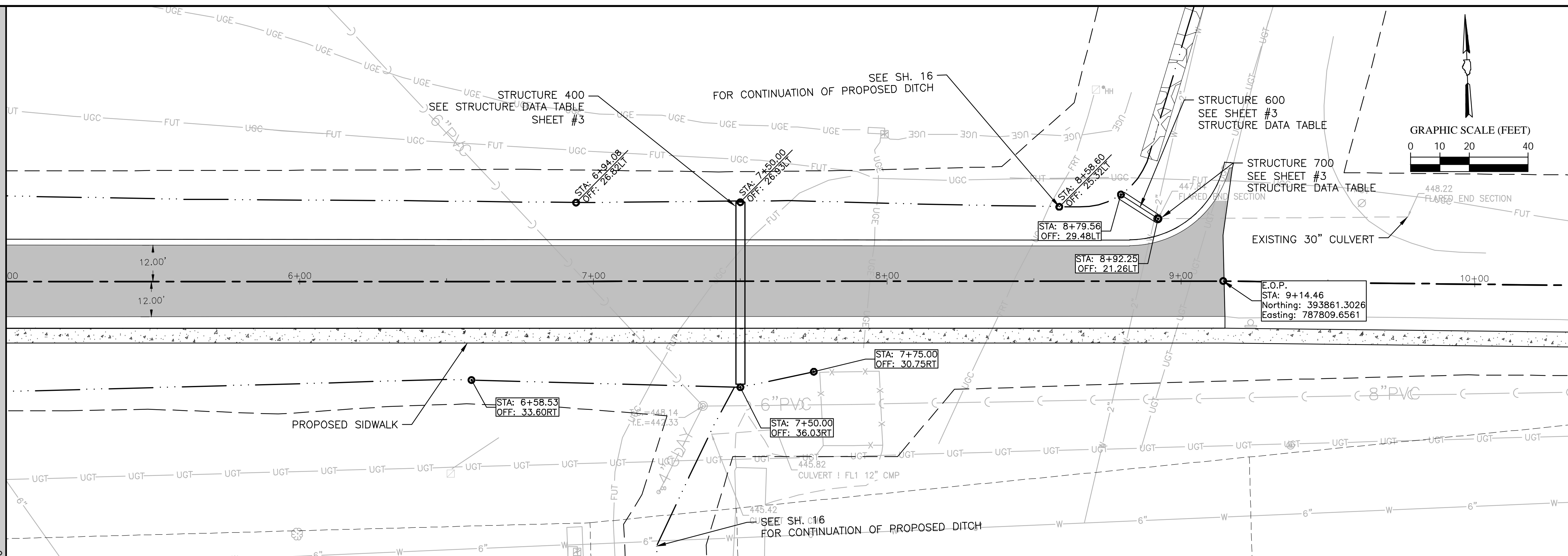
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TYPICAL SECTION EXTEND FIXED BASE OPERATOR ACCESS ROAD VETERANS AIRPORT OF SOUTHERN ILLINOIS	
Date	3/22/2023
DR. By	BLW
CK'D By	MKW
Scale	NTS
Job No.	22140
Sheet No.	4 of 19



LETTING CONTRACT NUMBER
WI060

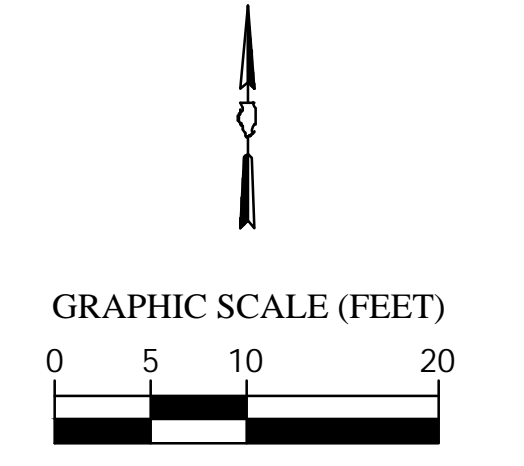
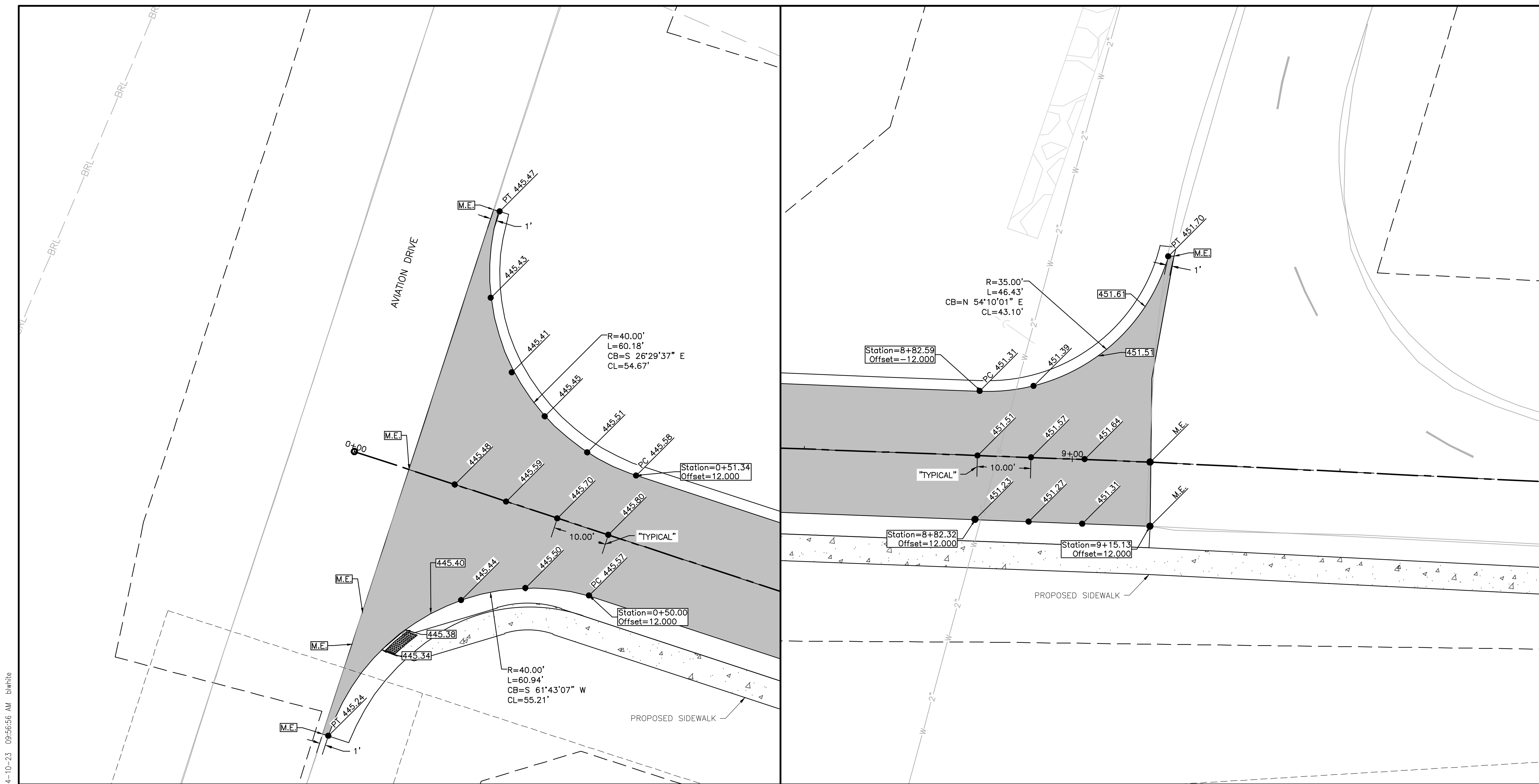
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LETTING CONTRACT NUMBER
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— PLAN AND PROFILE — STATION 5+00 TO 9+25.00

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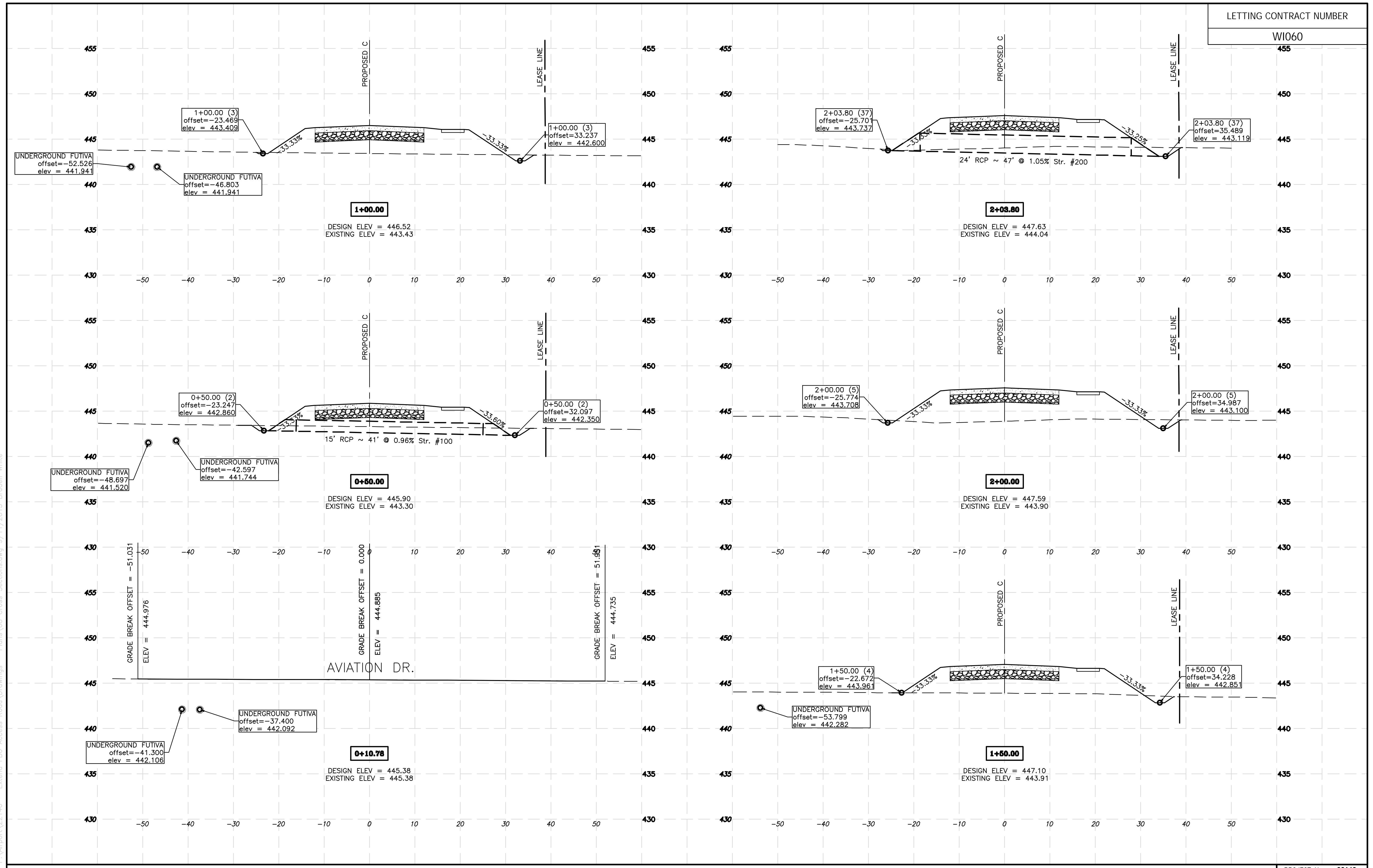
FBO ACCESS ROAD AND AVIATION DR.

FBO ACCESS ROAD AND TERMINAL DR.

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LETTING CONTRACT NUMBER
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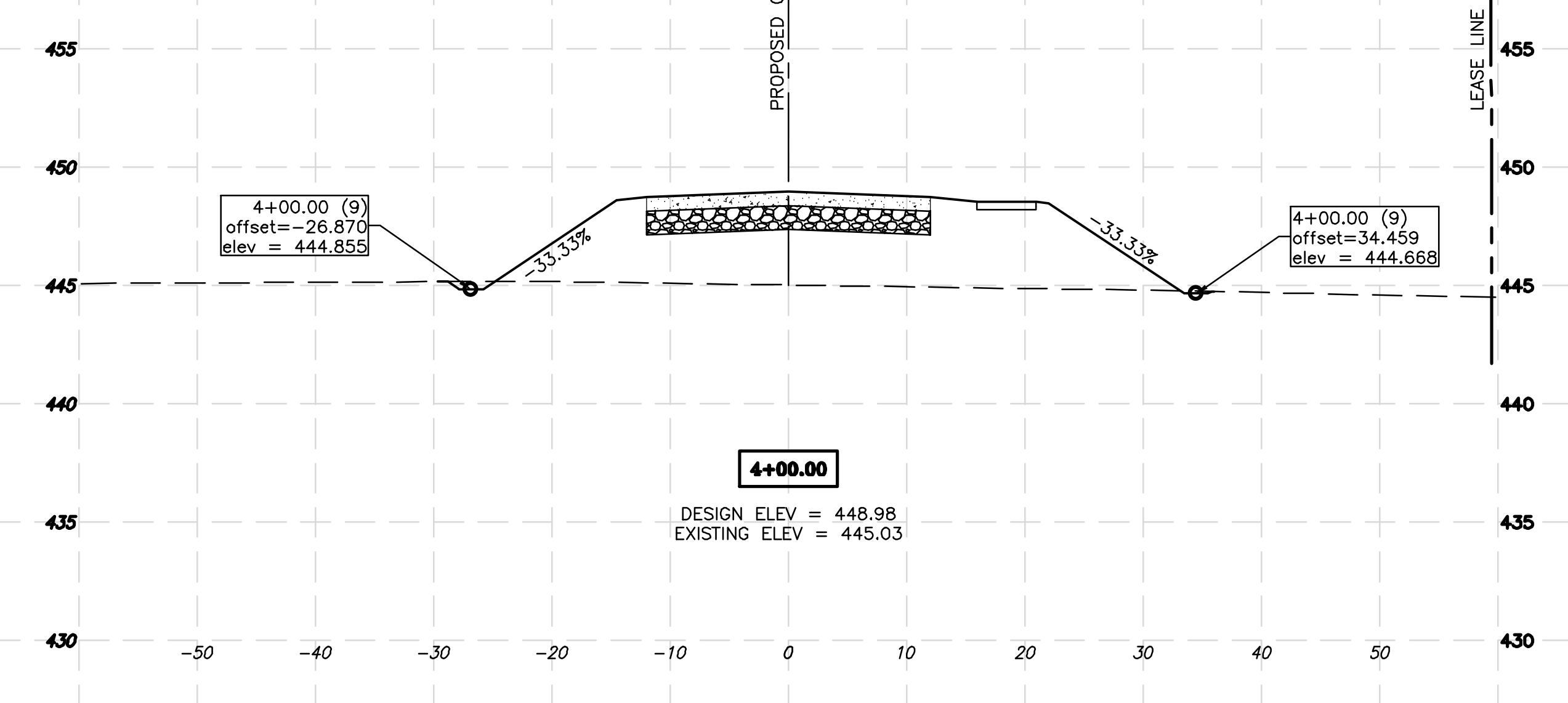
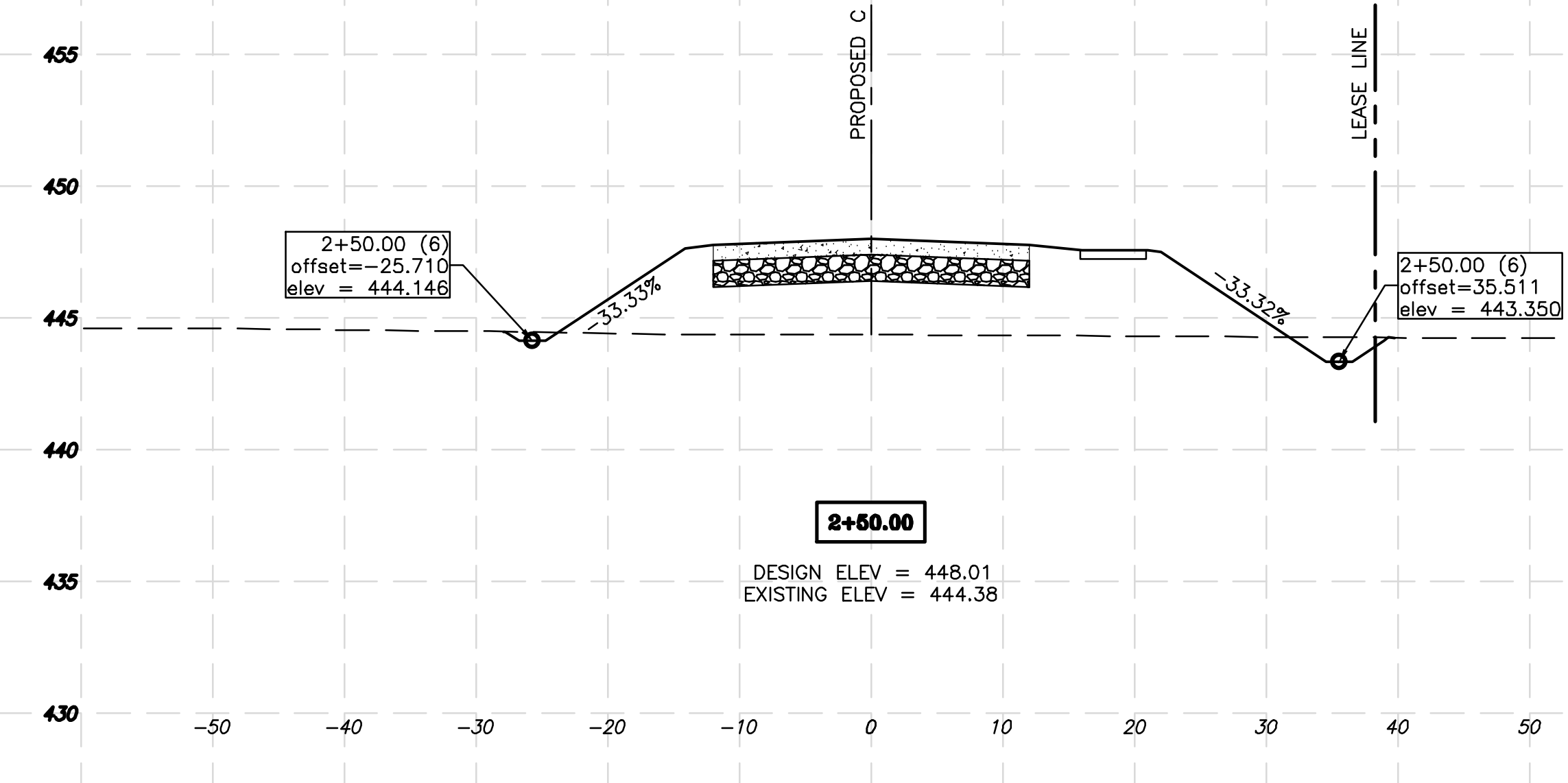
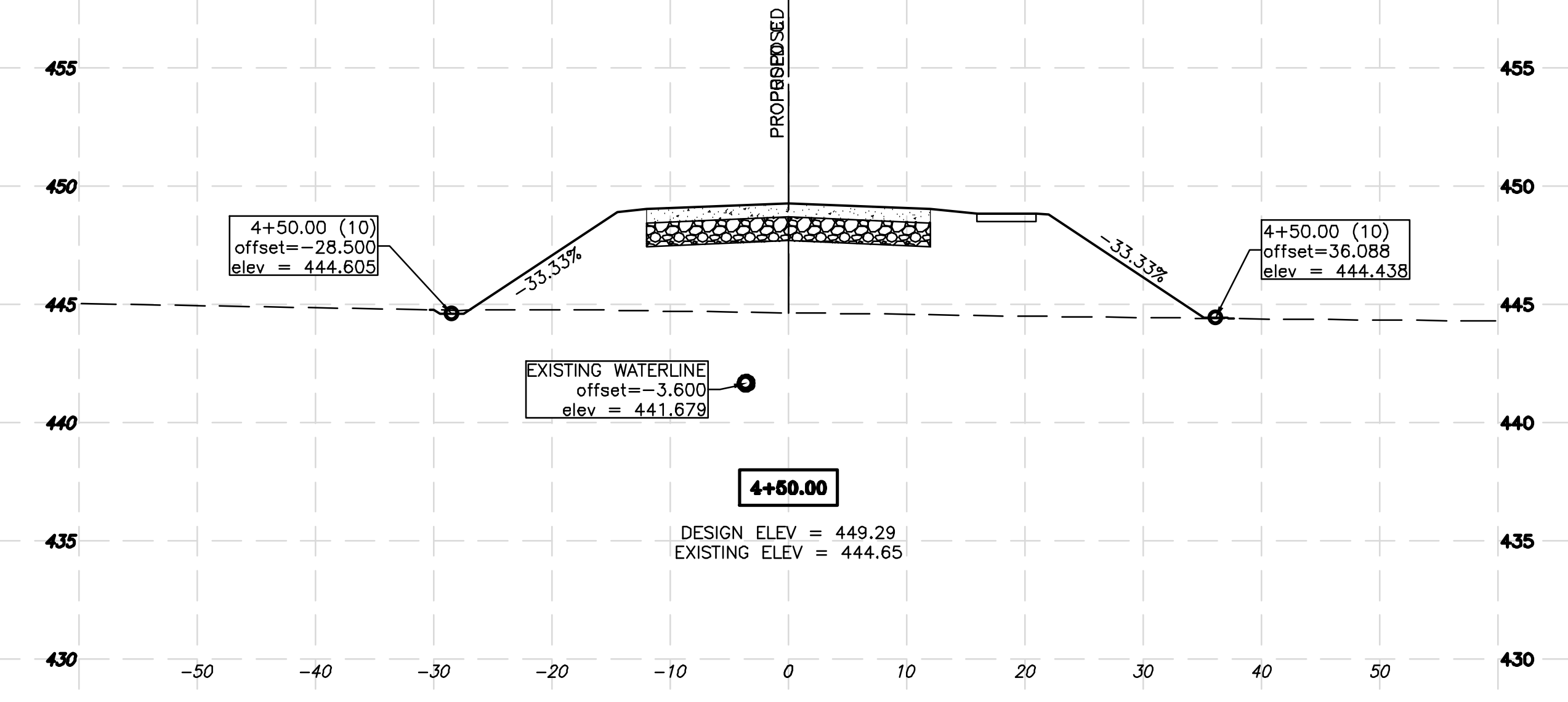
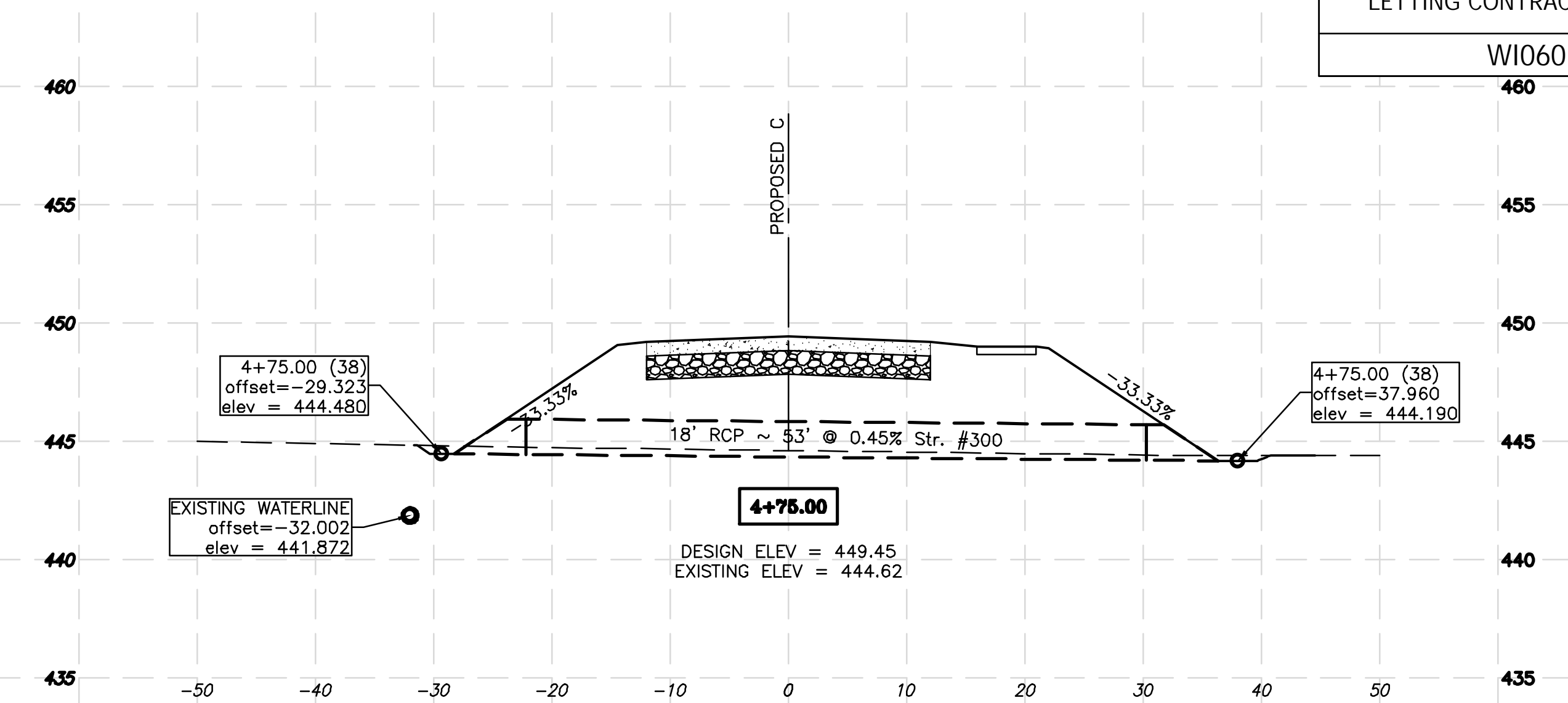
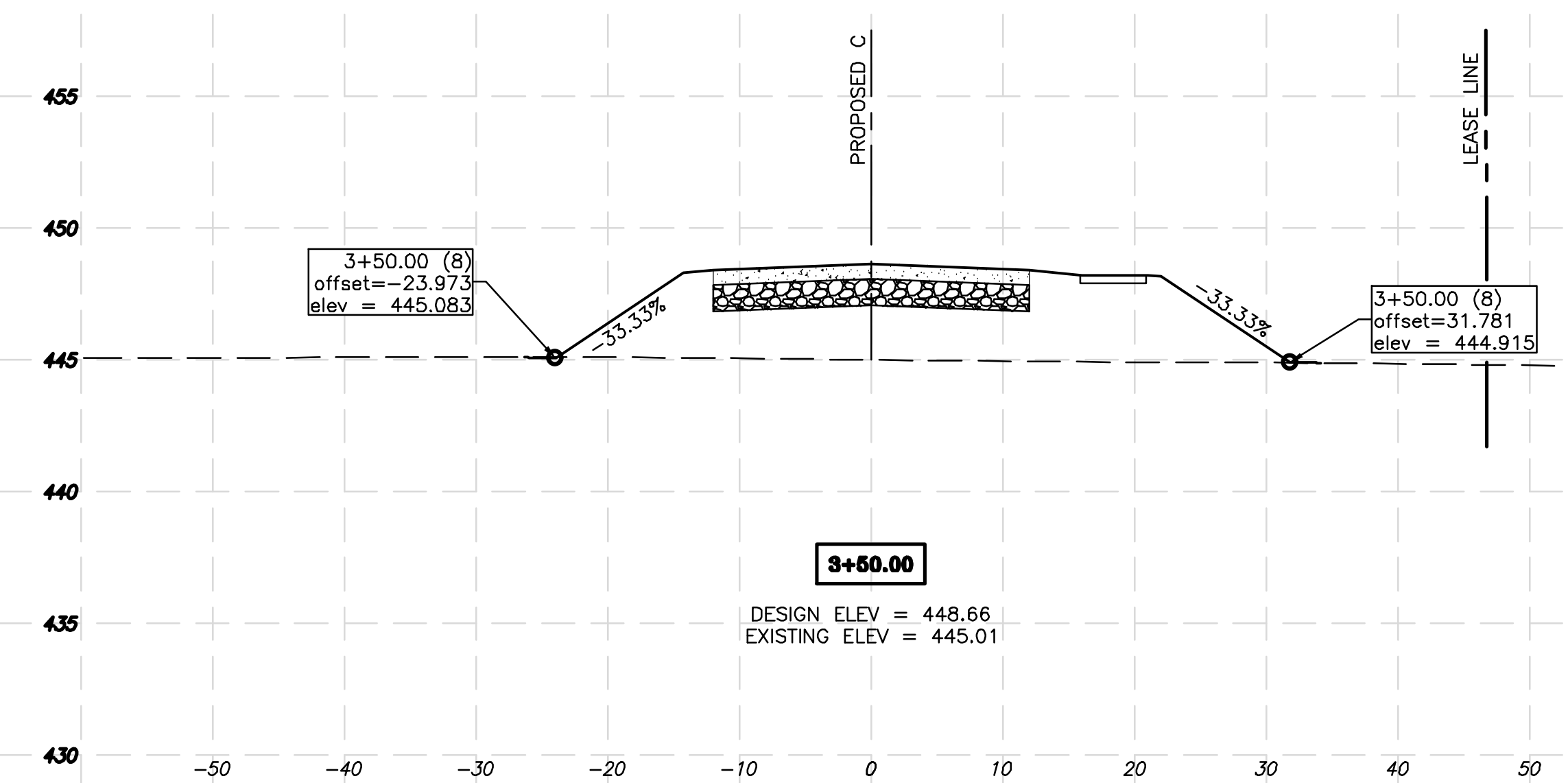
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INTERSECTION DETAILS EXTEND FIXED BASE OPERATOR ACCESS ROAD VETERANS AIRPORT OF SOUTHERN ILLINOIS	
Date	3/22/2023
DR. By	BLW
CK'D By	MKW
Scale	1" = 10'
Job No.	22140
Sheet No.	7 of 19



— CROSS-SECTIONS — STA 0+10.78 TO STA 2+03.80

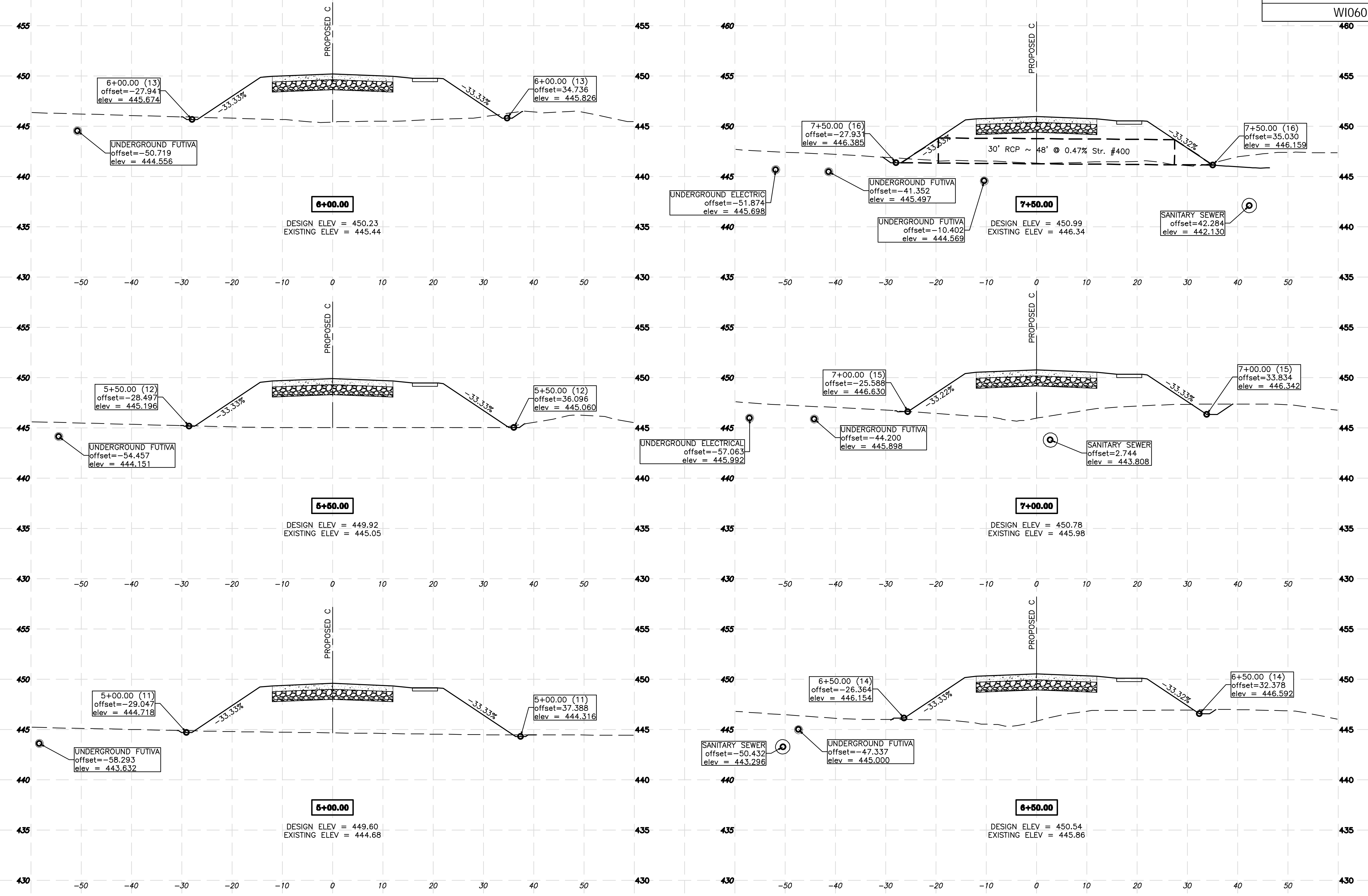
* UTILITY LOCATIONS AND ELEVATIONS ARE ESTIMATIONS

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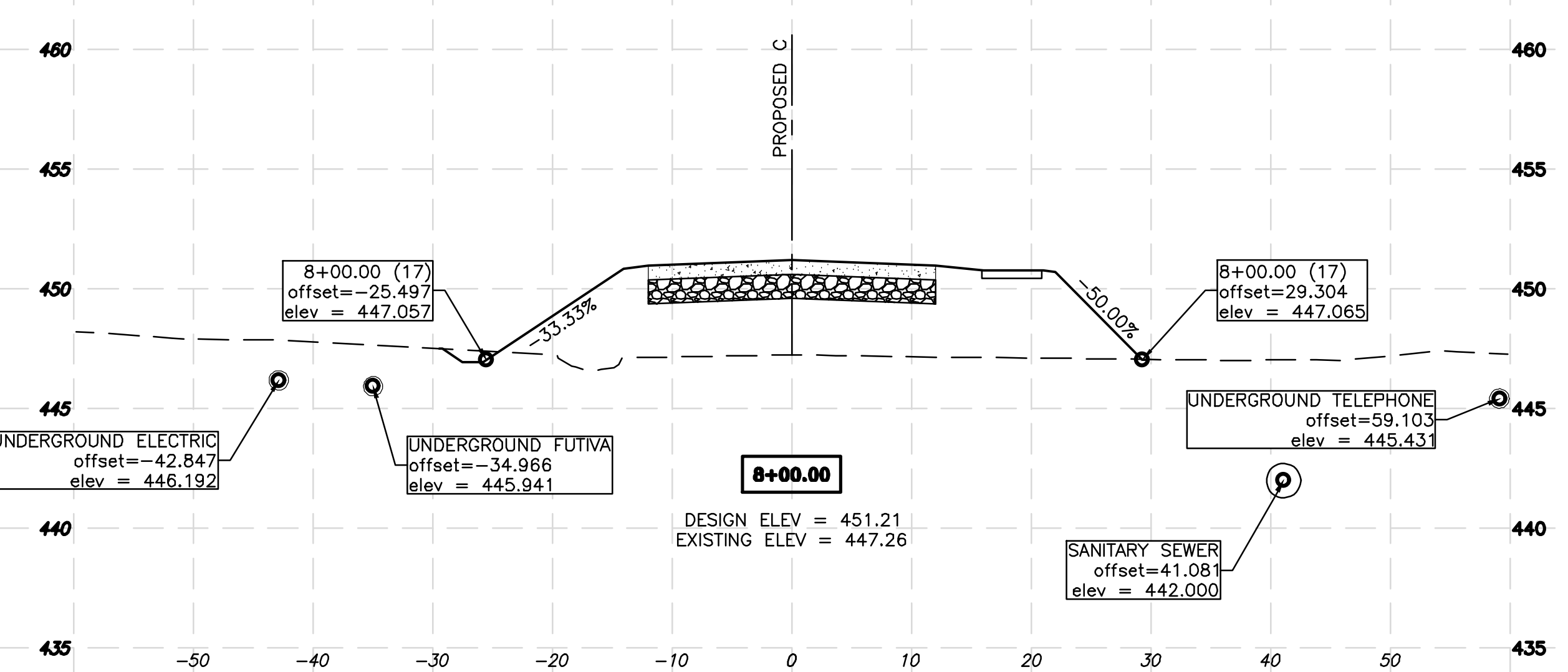
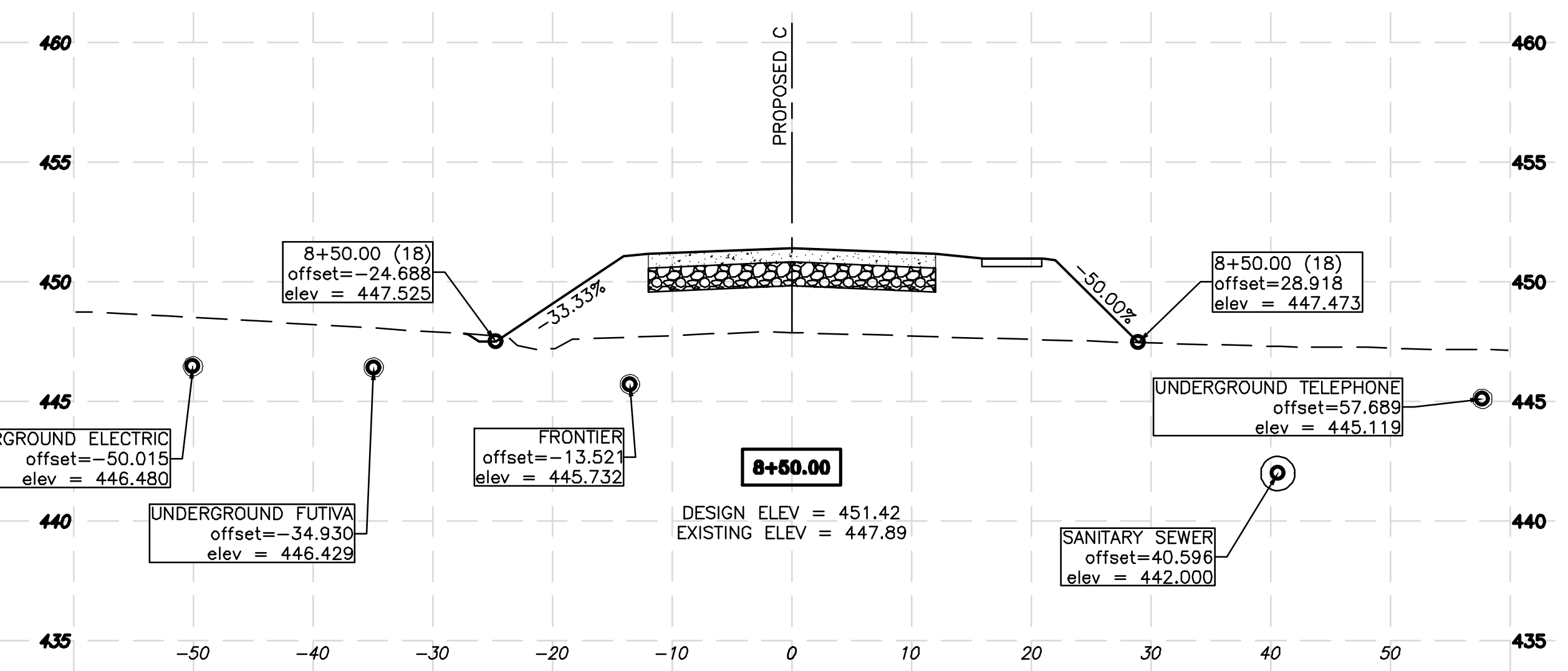
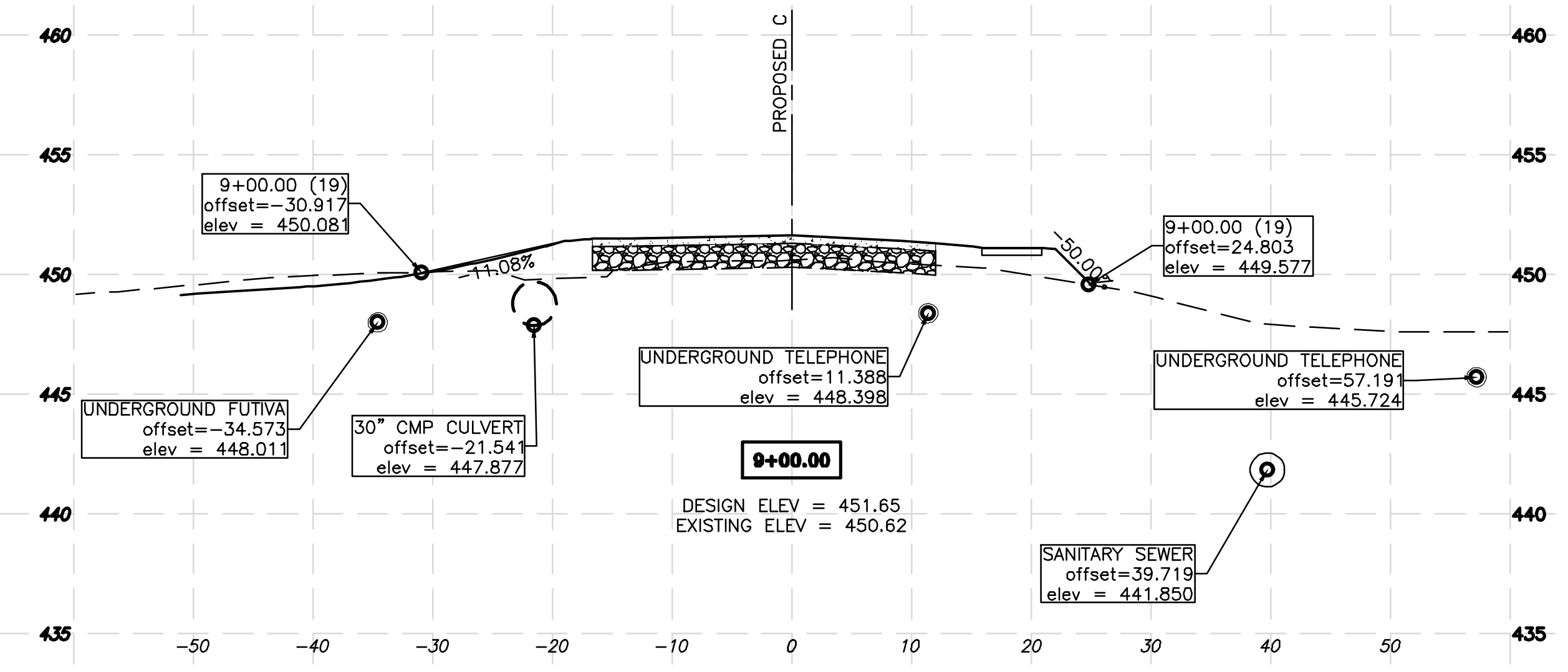
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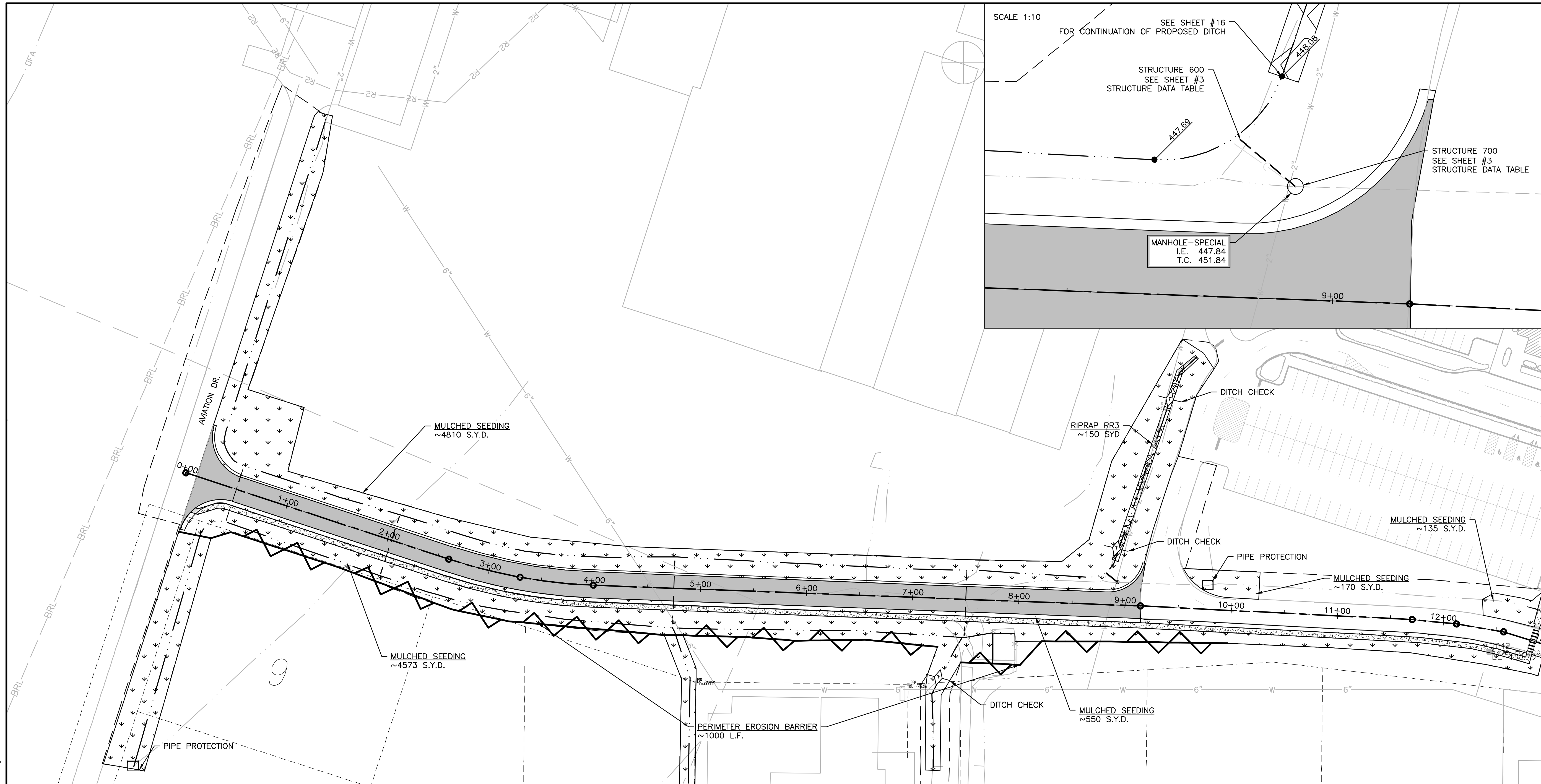
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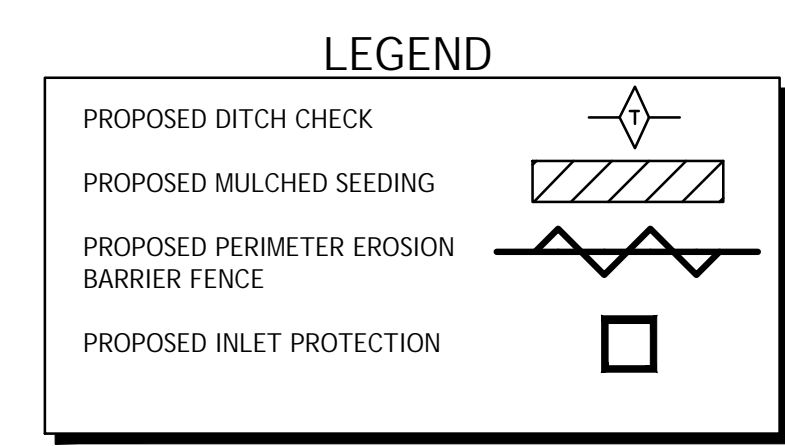
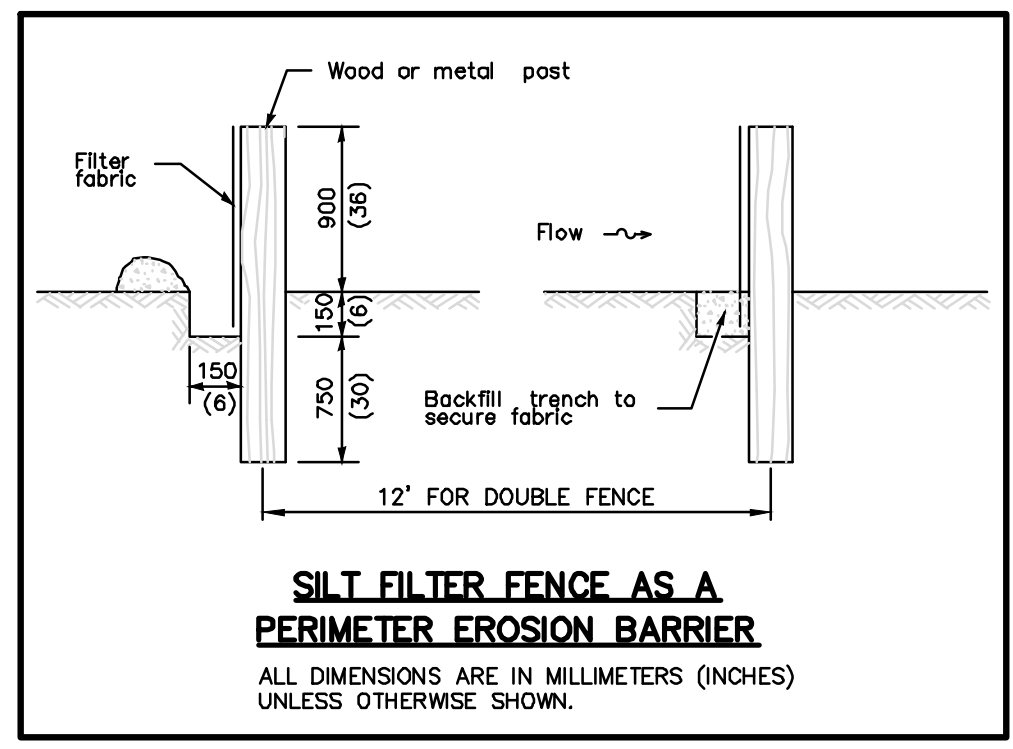
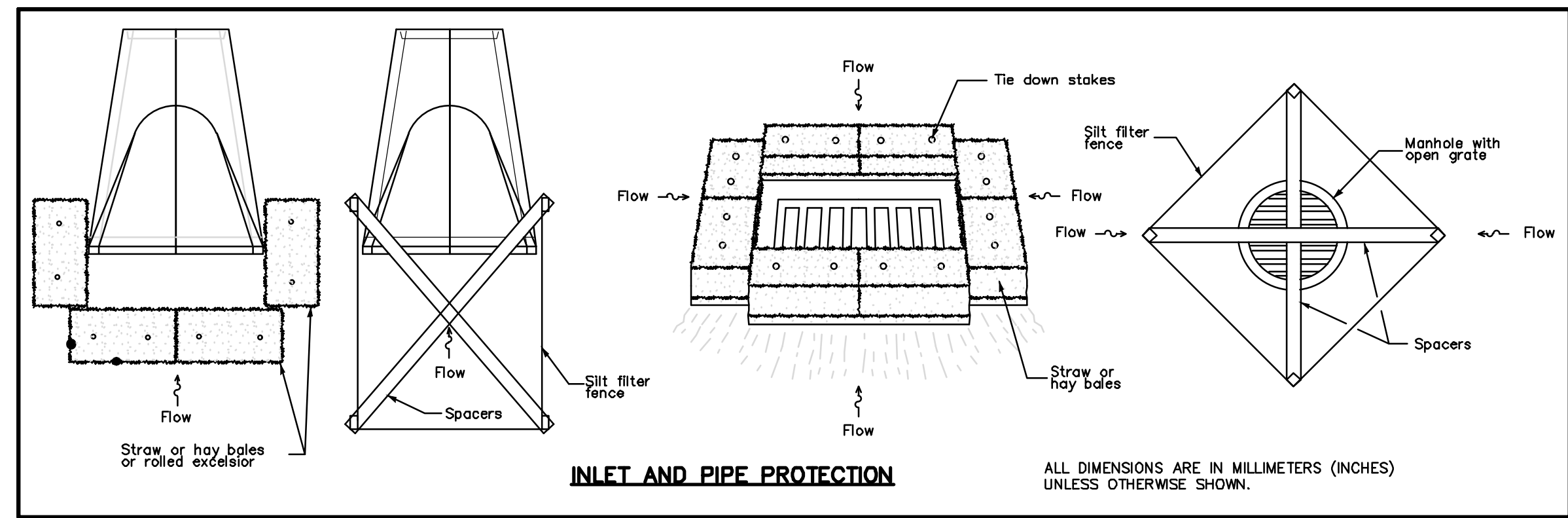
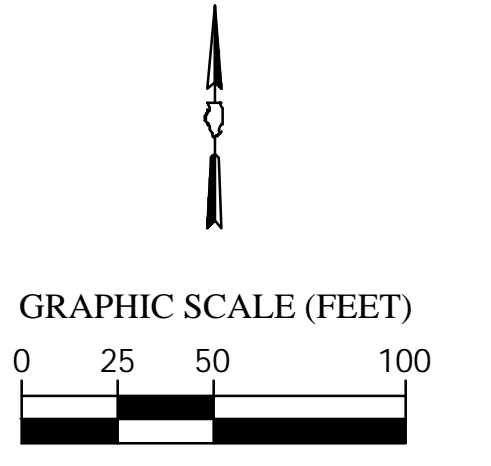
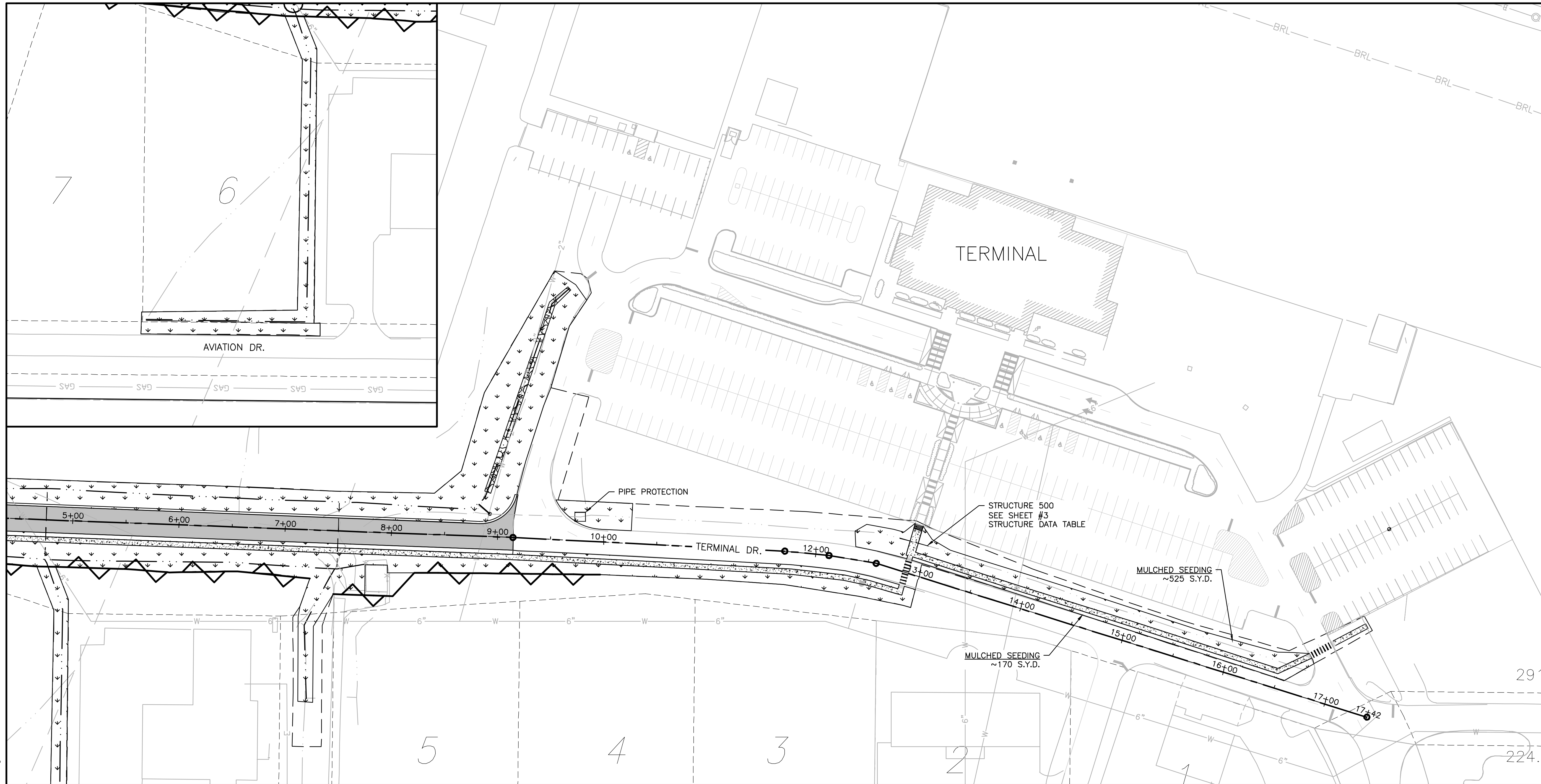
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EROSION CONTROL / GRADING PLAN EXTEND FIXED BASE OPERATOR ACCESS ROAD VETERANS AIRPORT OF SOUTHERN ILLINOIS	
Date	3/22/2023
DR. By	BLW
CK'D By	MKW
Scale	1" = 50'
Job No.	22140
Sheet No.	12 of 19

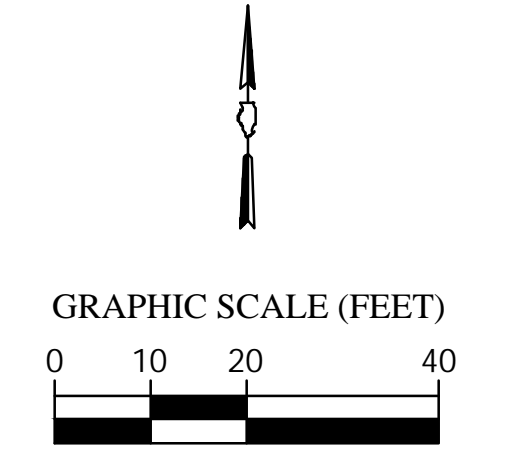
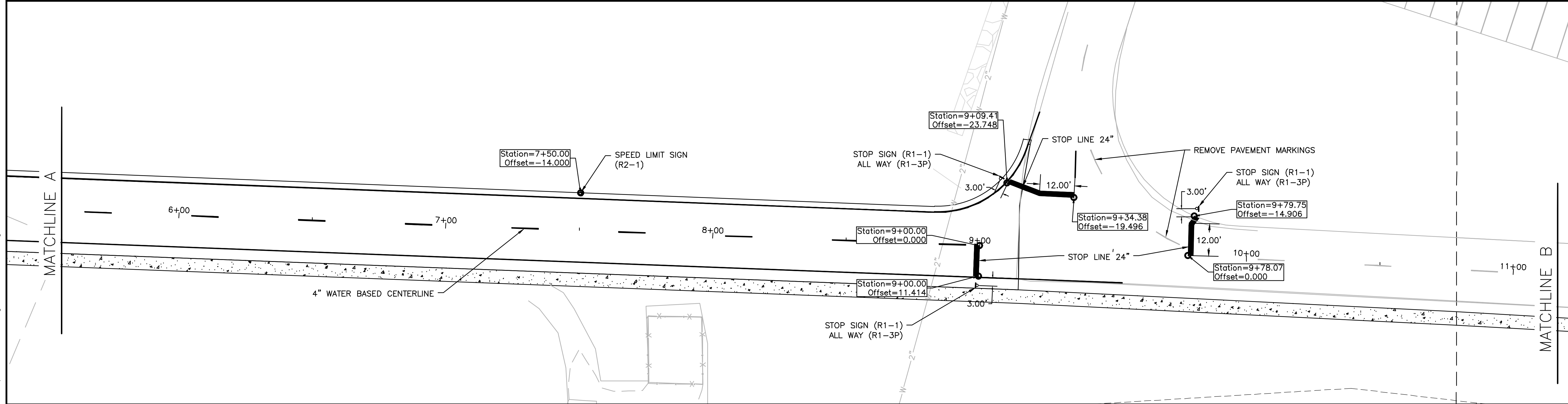
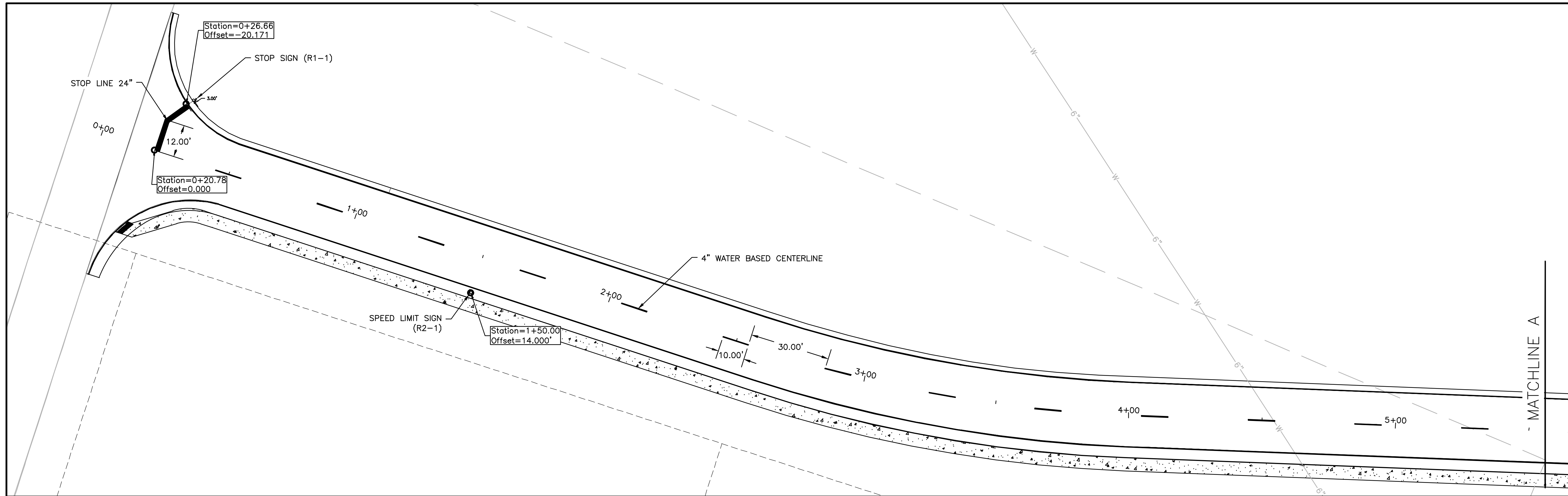
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LETTING CONTRACT NUMBER
W1060

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Date	3/22/2023
DR. By	BLW
CK'D By	MKW
Scale	1" = 50'
Job No.	22140
Sheet No.	13 of 19

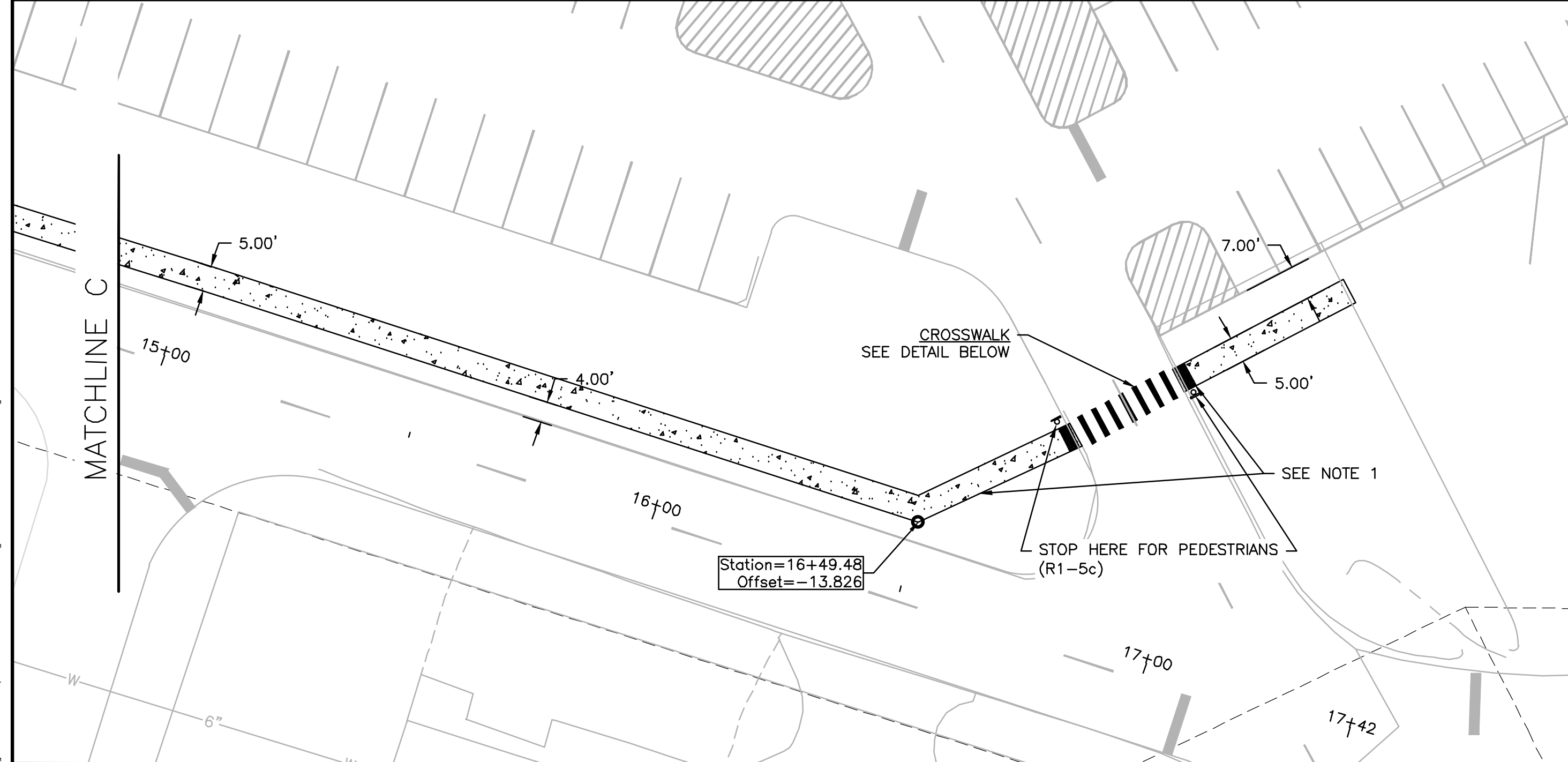
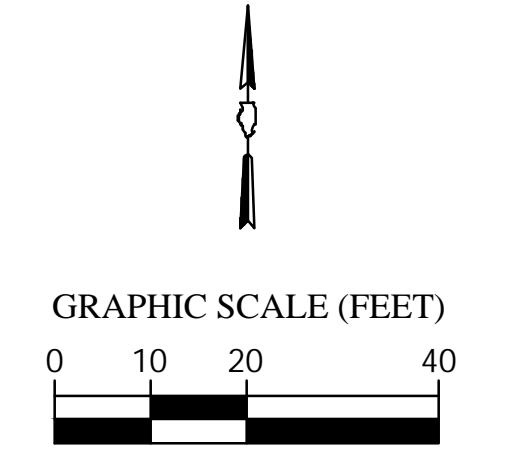
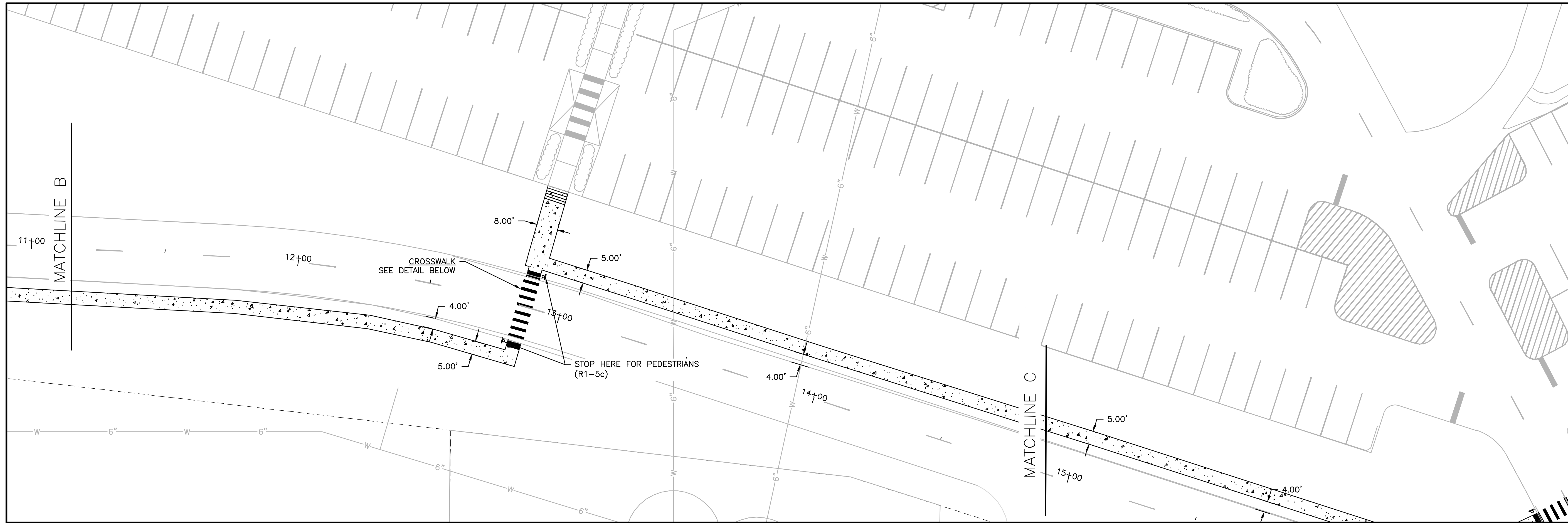
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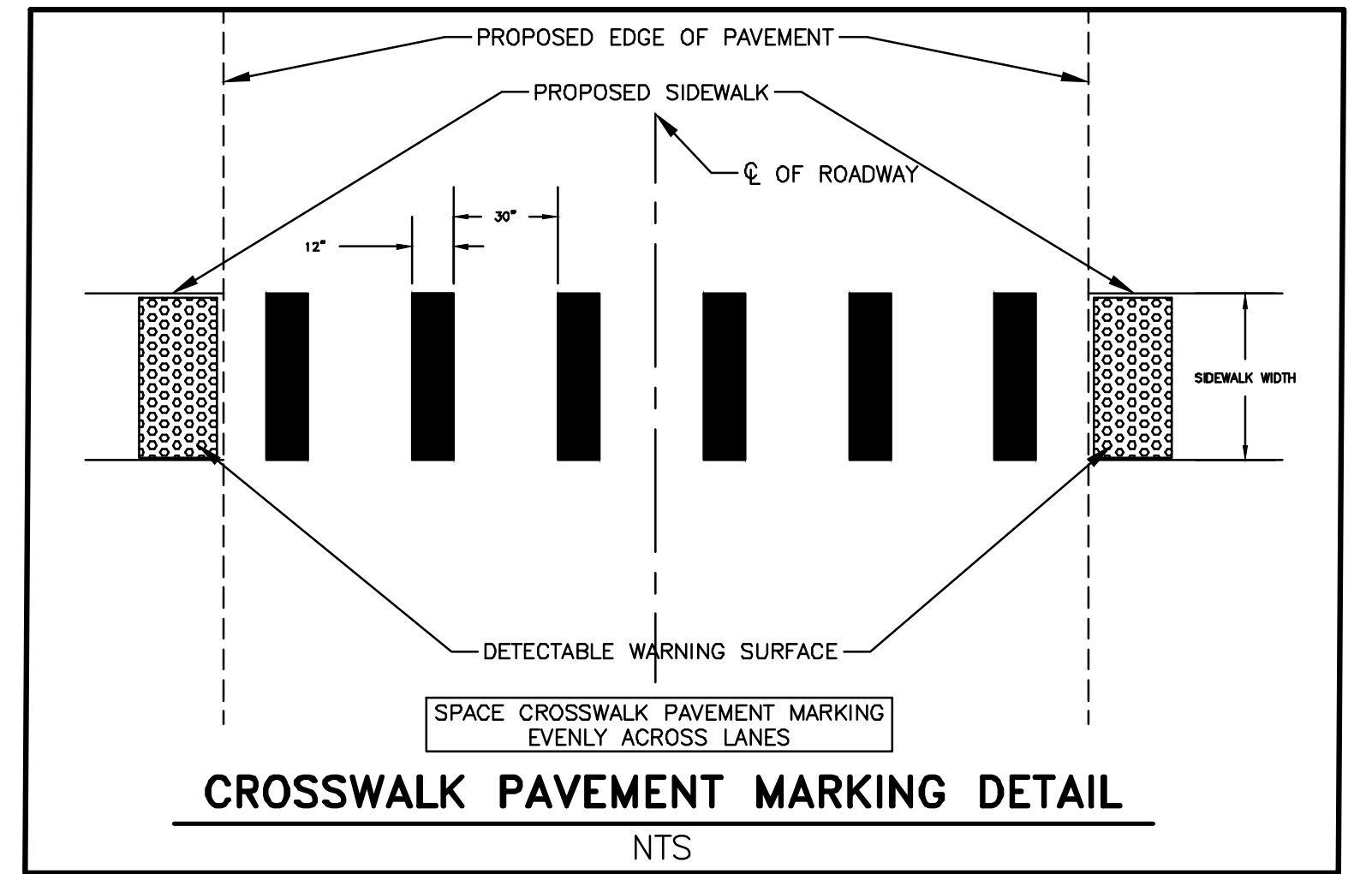
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PAVEMENT MARKING PLAN EXTEND FIXED BASE OPERATOR ACCESS ROAD VETERANS AIRPORT OF SOUTHERN ILLINOIS	
Date	3/22/2023
DR. By	BLW
CK'D By	MKW
Scale	1" = 20'
Job No.	22140
Sheet No.	14 of 19

LETTING CONTRACT NUMBER
W1060


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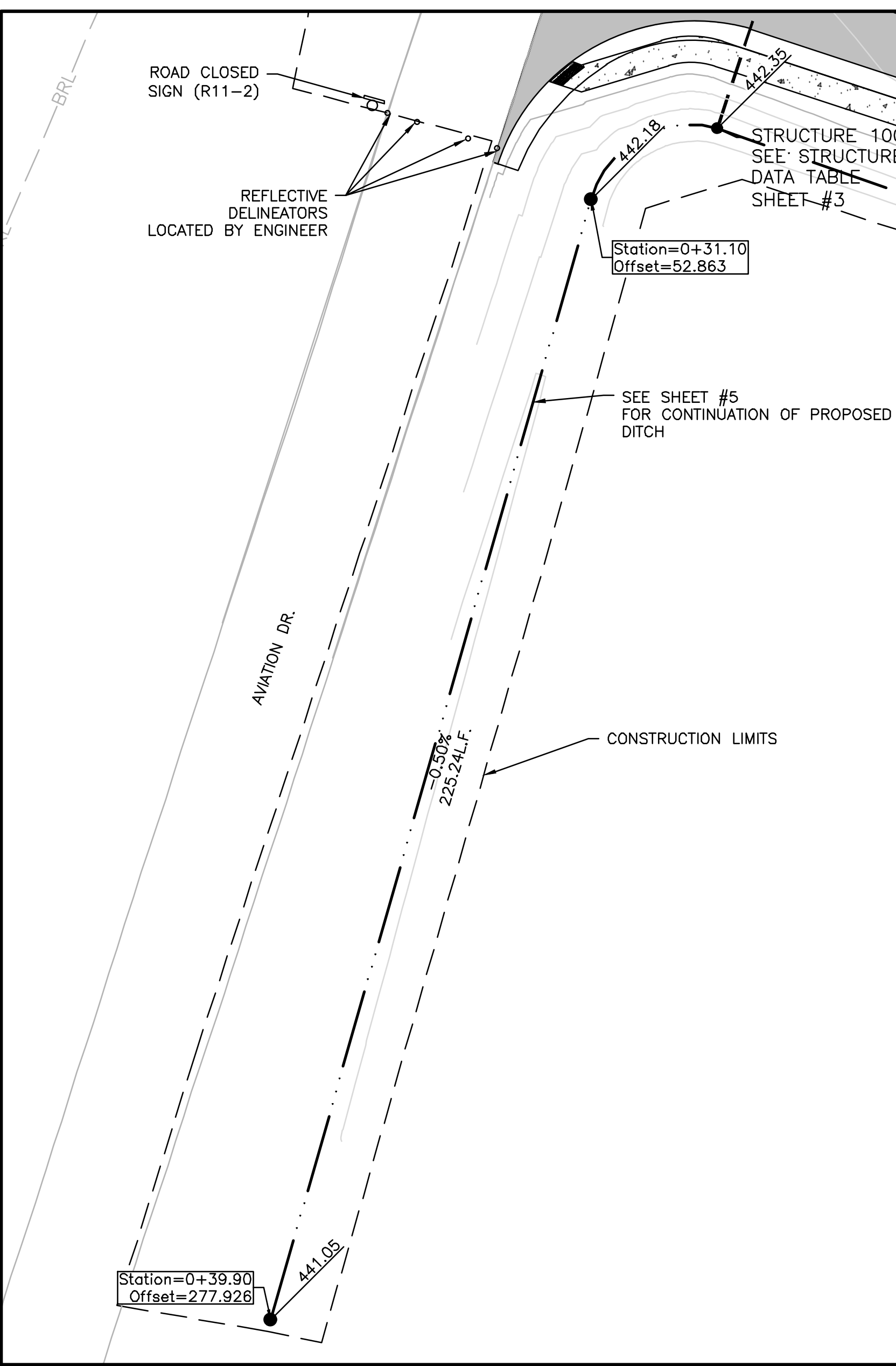
NOTE 1: SIDEWALK TO BE LOCATED BY ENGINEER



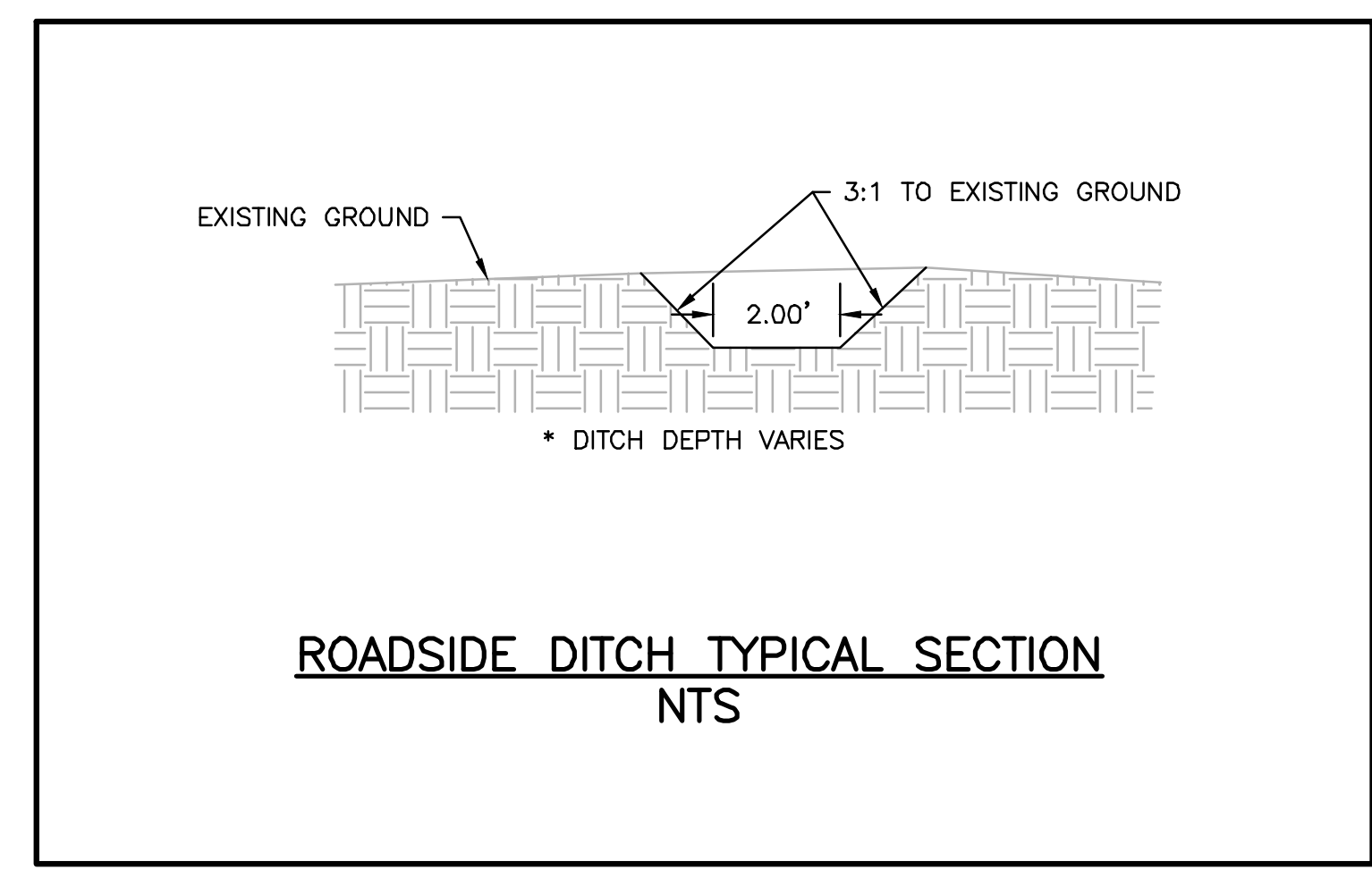
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Date	3/22/2023
DR. By	BLW
CK'D By	MKW
Scale	1" = 20'
Job No.	22140
Sheet No.	15 of 19

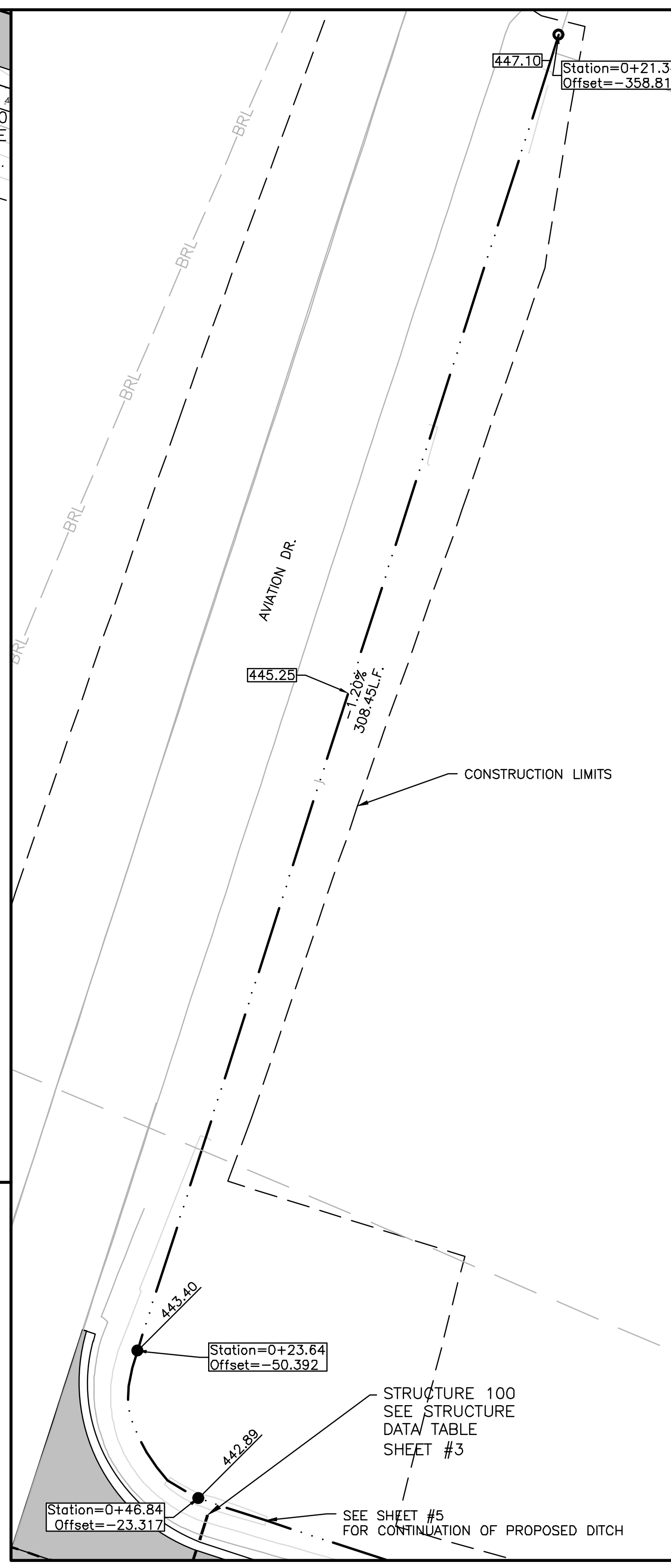
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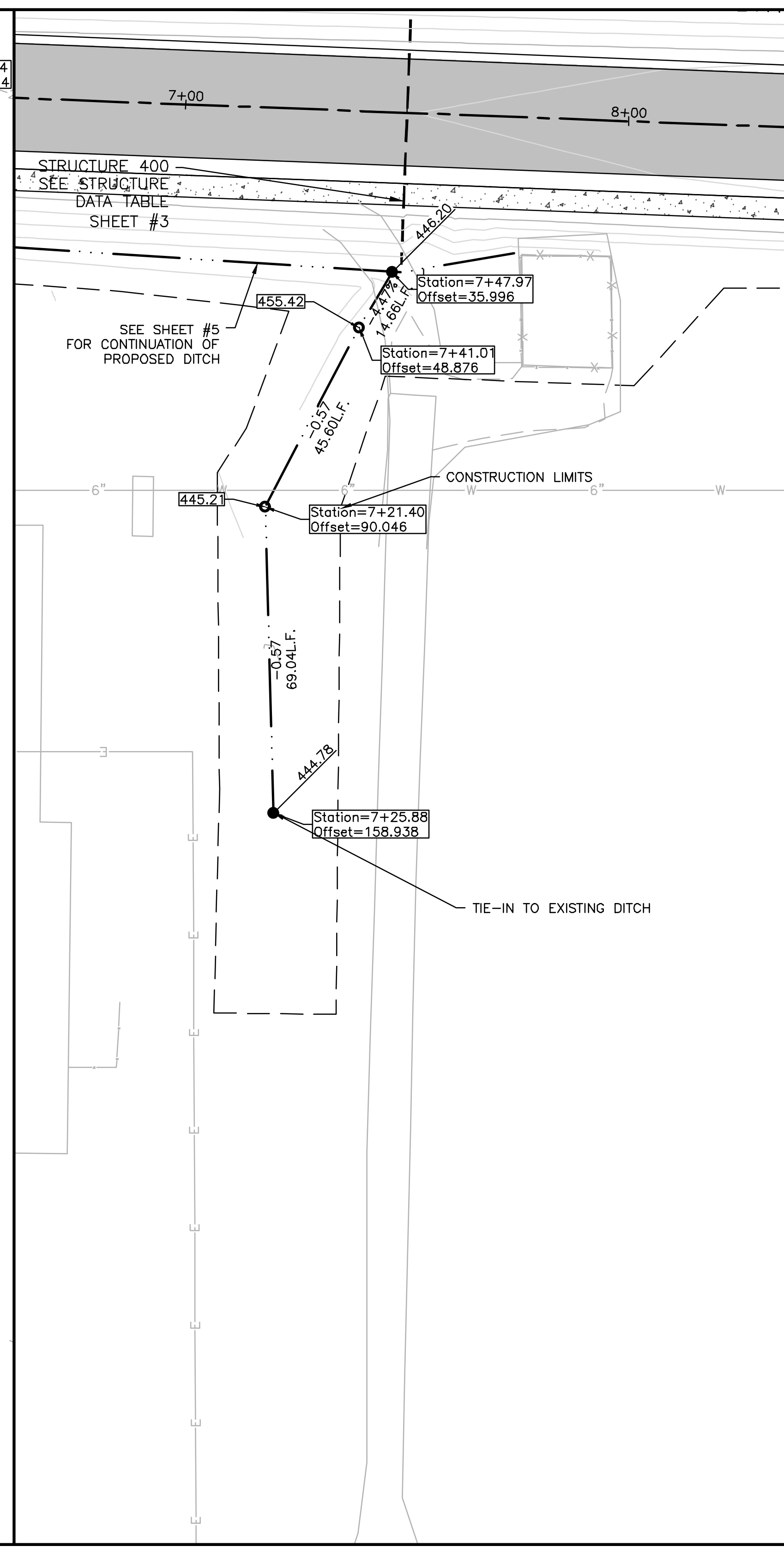
WEST TERMINUS SOUTH OF ROAD.



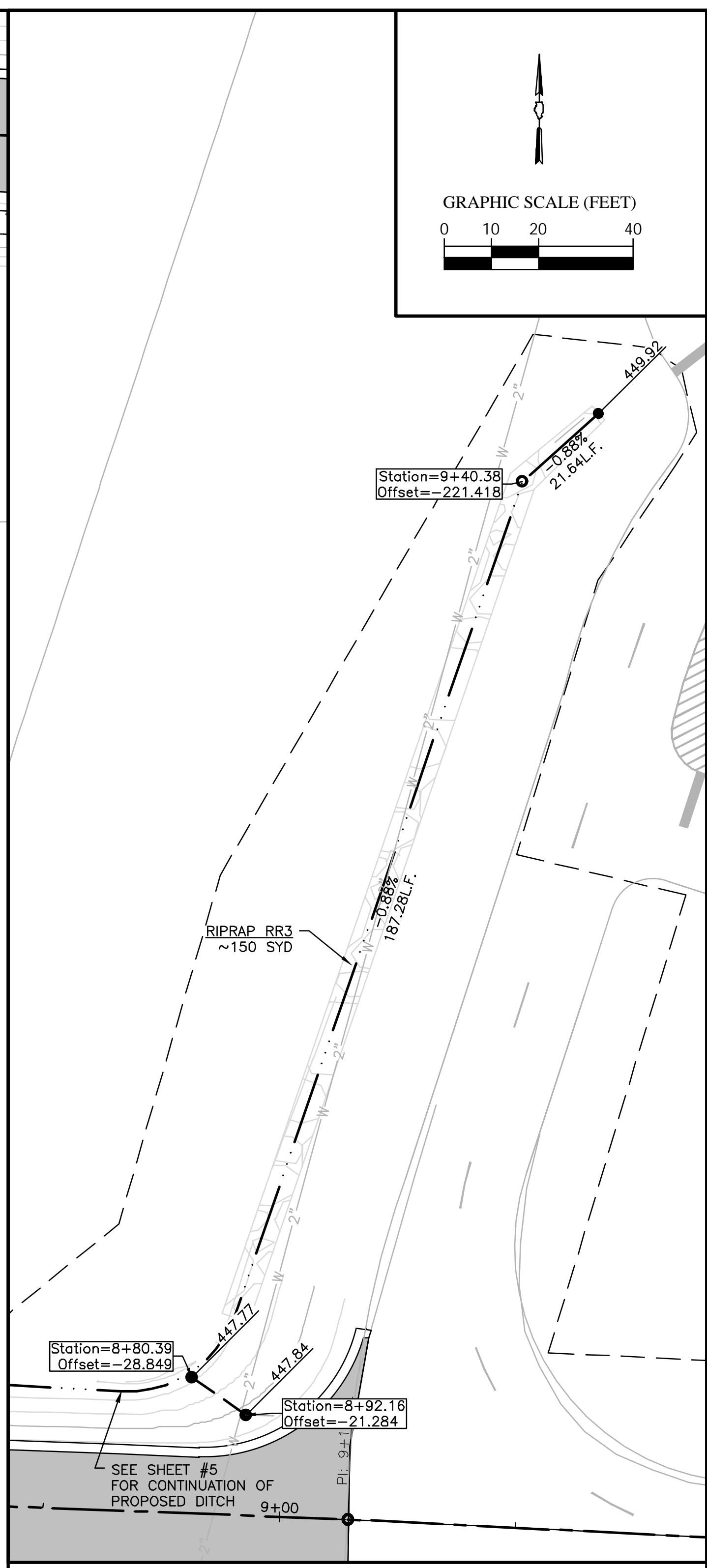
**ROADSIDE DITCH TYPICAL SECTION
NTS**



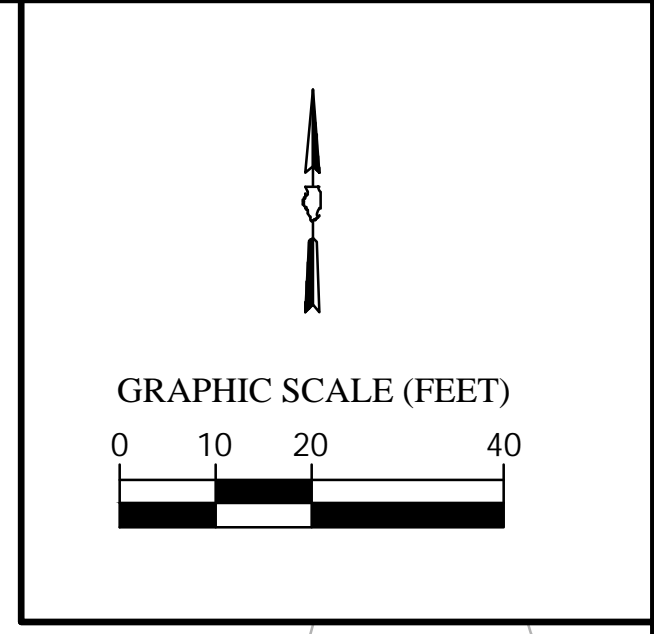
WEST TERMINUS NORTH OF ROAD



STA. 7+50.00 SOUTH OF ROAD



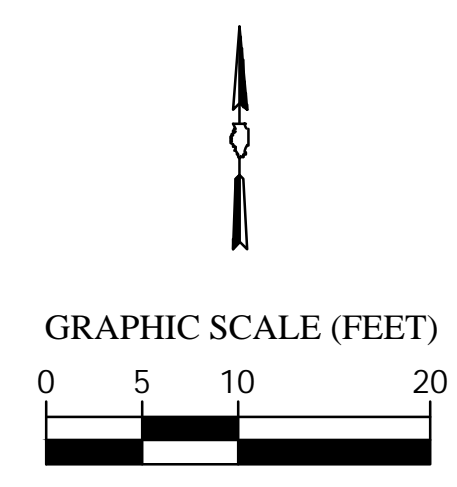
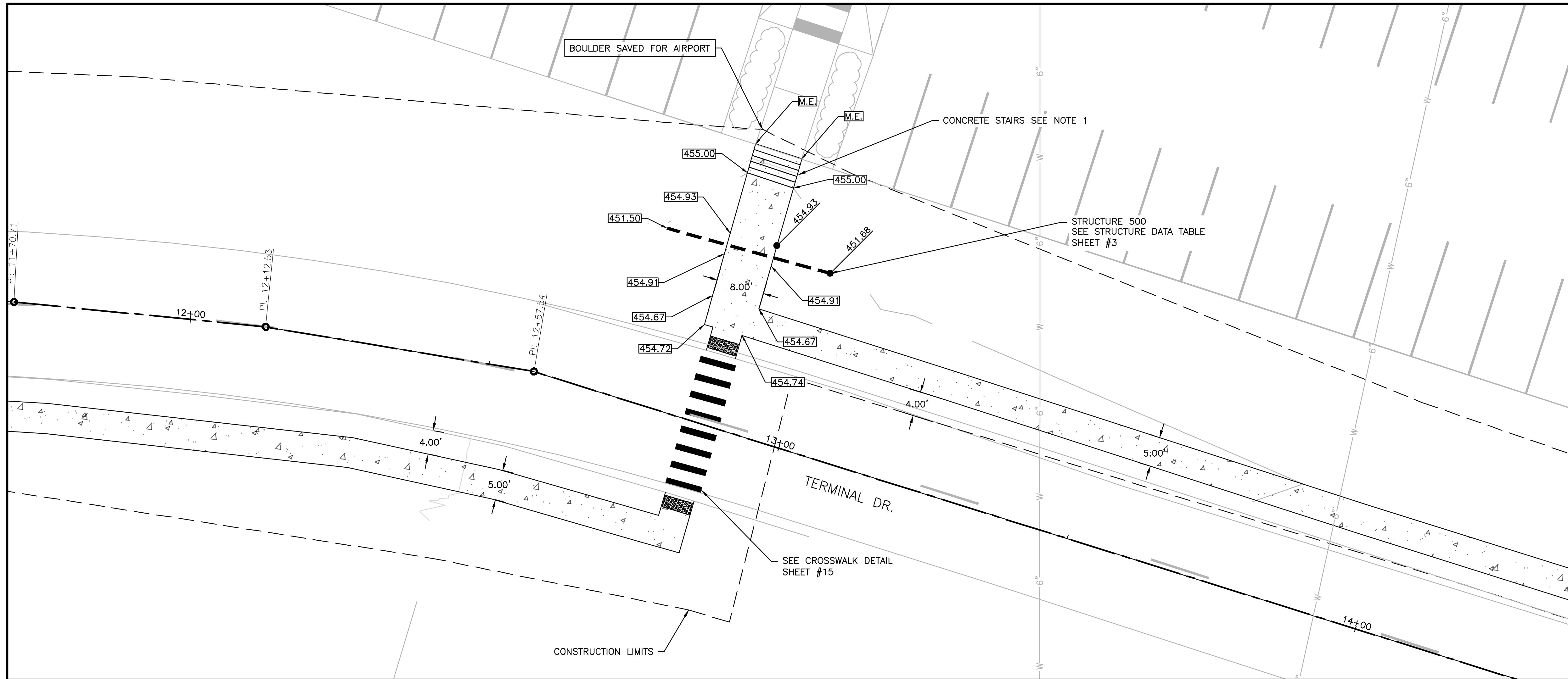
EAST TERMINUS NORTH OF ROAD



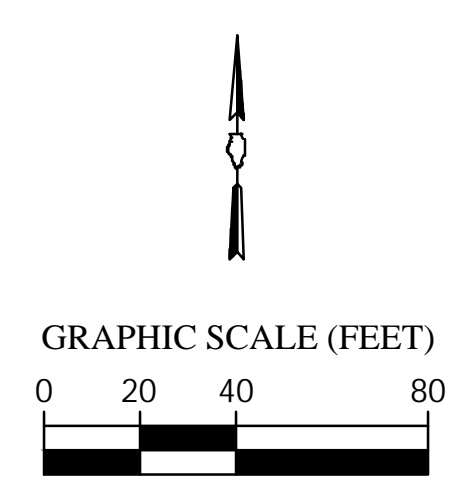
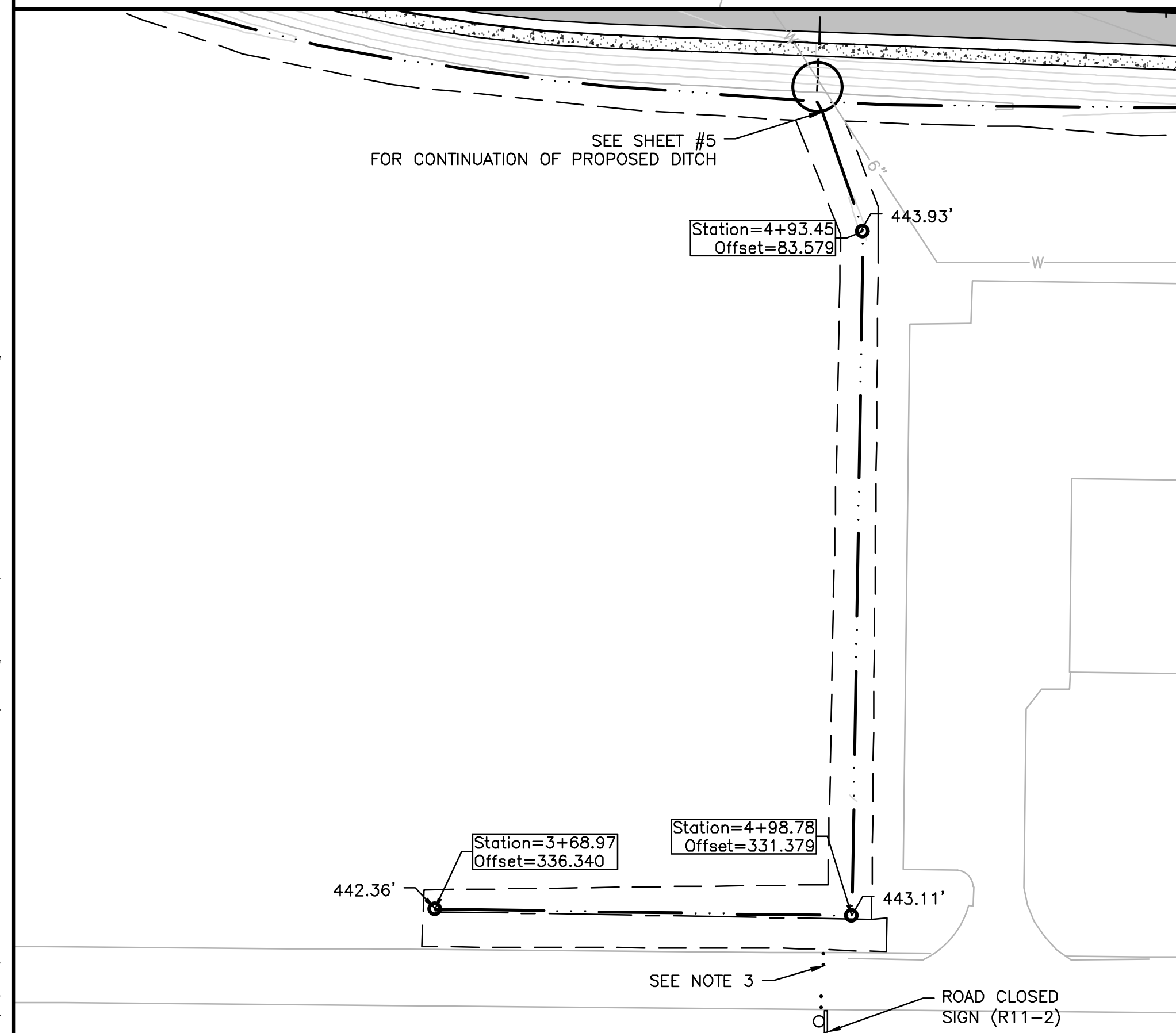
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MISCELLANEOUS - DITCHES EXTEND FIXED BASE OPERATOR ACCESS ROAD VETERANS AIRPORT OF SOUTHERN ILLINOIS	
Date	3/22/2023
DR. By	BLW
CK'D By	MKW
Scale	1" = 20'
Job No.	22140
Sheet No.	16 of 19

P:\Airport\22140 - Extend FBO Access Road\Drawings - Plans\16-17 DITCH PLANS_STAIRS.dwg 7-06-23 11:02:25 AM bwhite



- NOTES:
1. DETAILS ON STAIRWAY ARE PROVIDED ON MISCELLANEOUS DETAILS SHEET #18.
 2. BOULDER TO BE REMOVED AND SAVED FOR AIRPORT. BOULDER WILL BE RELOCATED AS INSTRUCTED BY THE ENGINEER.
 3. REFLECTIVE DELINEATORS LOCATED BY ENGINEER.

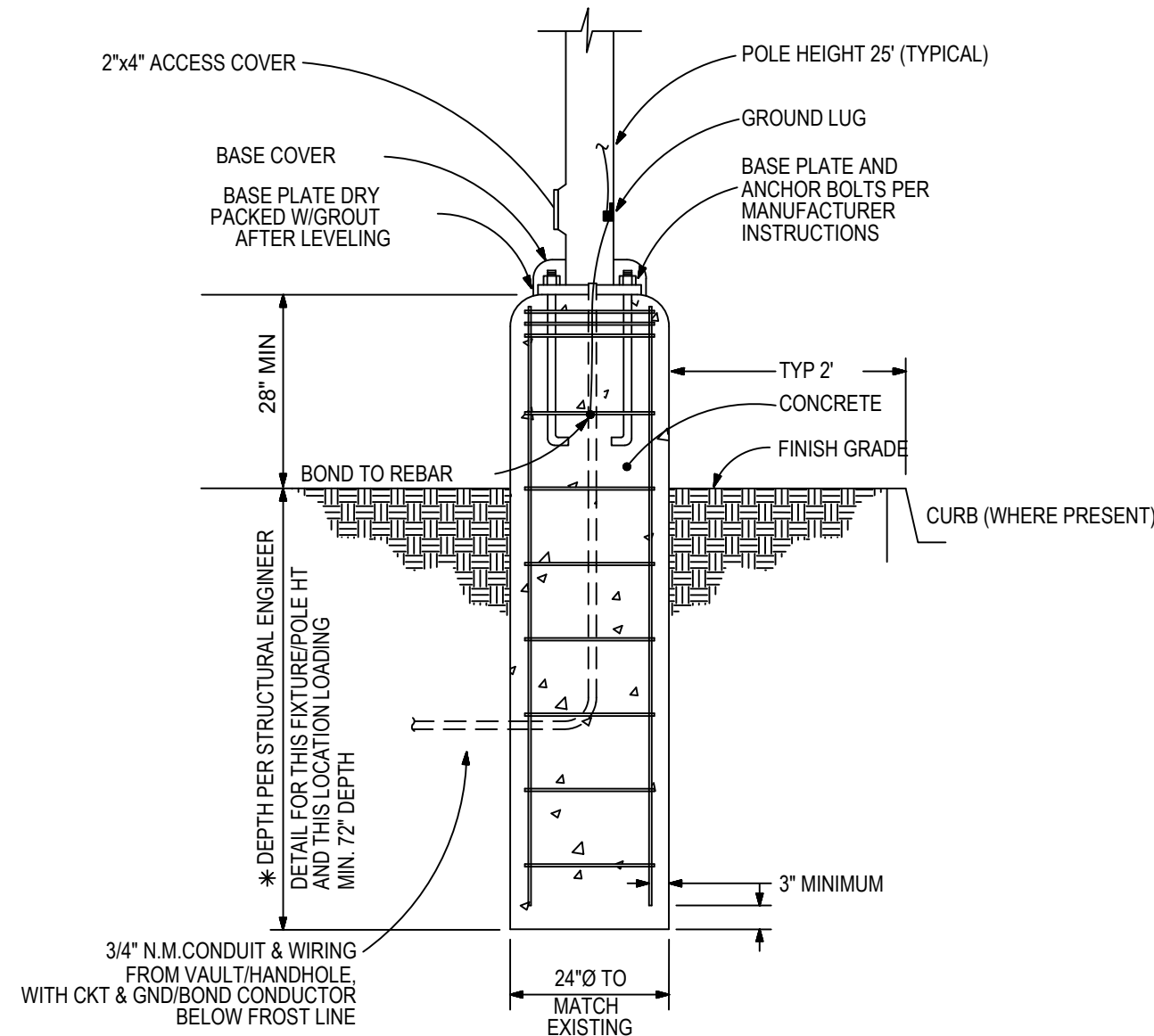


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MISCELLANEOUS - STAIRWAY EXTEND FIXED BASE OPERATOR ACCESS ROAD VETERANS AIRPORT OF SOUTHERN ILLINOIS	
Date	3/22/2023
DR. By	BLW
CK'D By	MKW
Scale	VARIES
Job No.	22140
Sheet No.	17 of 19

KEYNOTES #

1. INSTALL NEW 30A/2P BREAKER IN PANEL BOARD T1MA (MAIN TERMINAL ELECTRICAL RM), IN PLACE OF ANY TWO UNUSED OR SPARE SLOTS. RETURN ANY REMOVED BREAKERS TO OWNER. ROUTE INITIAL NEW ROADWAY LIGHTING HOMERUN TO THIS BREAKER FROM EXG OUTSIDE IN-GRADE VAULT MARKED "LIGHTING" APPROXIMATELY WHERE SHOWN.
 2. INSTALL NEW VAULT/HANDHOLE OF MINIMUM ACCESS PORT DIMENSIONS OF 12"x12" MINIMUM 24" DEPTH. WITH OPEN BURIED BASE AND MINIMUM 12" GRAVEL BED BELOW FOR LARGE-DIAMETER SWEEP ELBOW FITTING ENTRIES. INSTALL GASKETED ACCESS TOP WITH MOLDED LABEL "LIGHTING." EXTEND TWO NEW BURIAL RATED RIGID NON-METALLIC CONDUIT (NMC, SCHEDULE 40 OR THICKER), 2"Ø, FROM THIS NEW VAULT BACK TO PREVIOUS. INSTALL NEW CONDUCTORS OF TWO #8 AWG WITH #10 GND IN ONE CONDUIT (HOMERUN TO NEW BREAKER IN PANEL T1MA), WITH OTHER CONDUIT LEFT AS SPARE FOR OWNER FUTURE USE, WITH PULL CORD.
 3. EXTEND 1/2"Ø NMC FROM HANDHOLE SHOWN, UP INTO CENTER OF CONCRETE BASE FOR FIXTURE. ALL HOMERUNS TO THIS POINT SHALL BE ACCESSIBLE FROM GRADE WITH SPARE PULL TAPE IN EACH CONDUIT. EXTEND TWO #10 AWG WITH #10 GND FROM HANDHOLE TO FIXTURE, USING 2x4 ACCESS/JUNCTION BOX IN BASE OF POLE FOR FINAL SPLICE. BOND POLE TO BONDING CONDUCTOR COORDINATE POLE BASE, INSTALLATION OF POLE, AND ROADWAY FIXTURE AS SCHEDULED, PER DETAIL.
- 3.A. POLE, FIXTURE ARMATURE, AND FIXTURE BODY TO BE GREY TO MATCH EXG.
 3.B. ROUND POLE TO MATCH EXG, HEIGHT 25', FINAL FIXTURE HEIGHT APPROX 27.5'
 3.C. INSTALL POLE AND LIGHT FIXTURE ASSEMBLY PER MANUFACTURER'S RECOMMENDATIONS.
 3.D. POLE BASE TYPICALLY MIN. 24" FROM EDGE OF ROADWAY OR CURB TO FACE OF BASE.

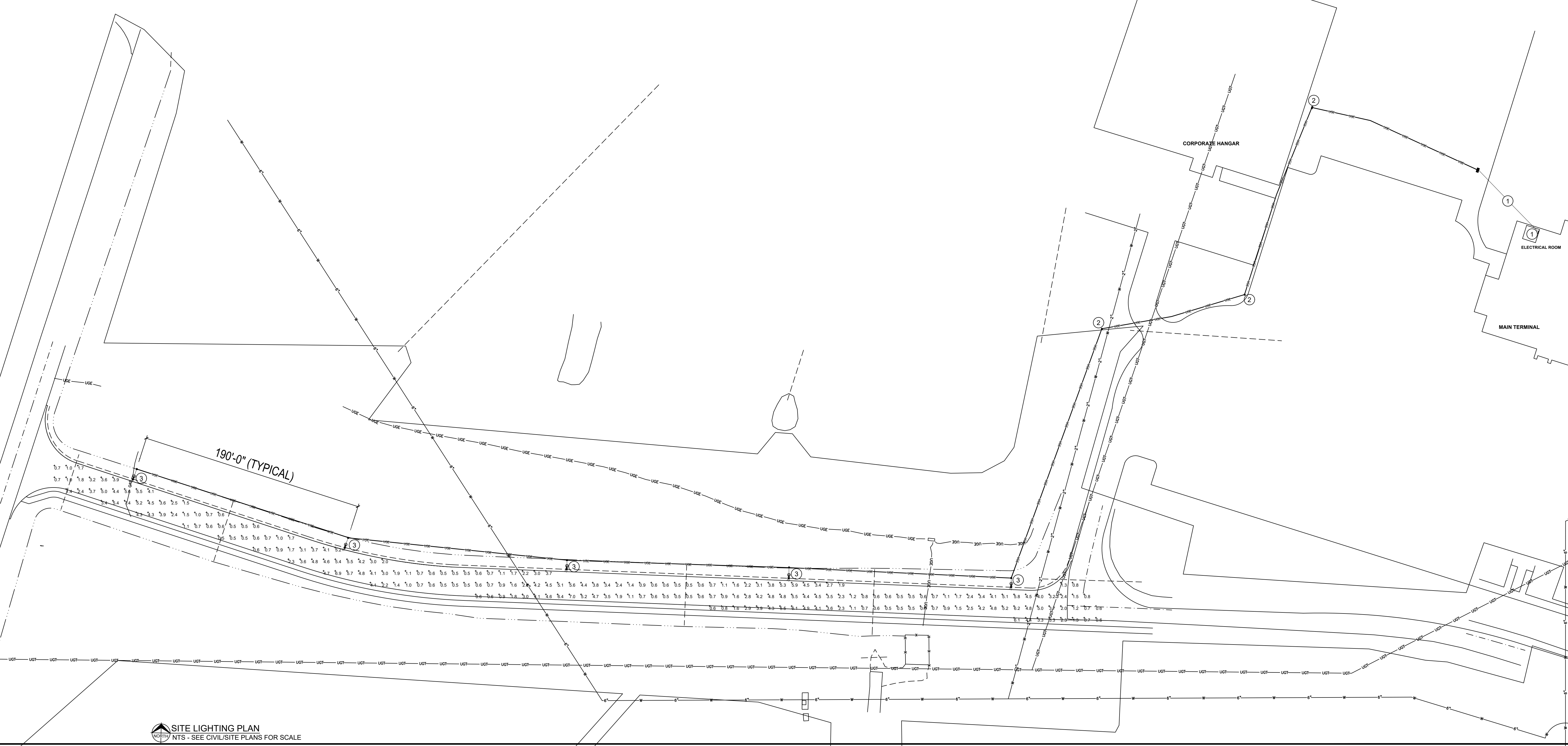
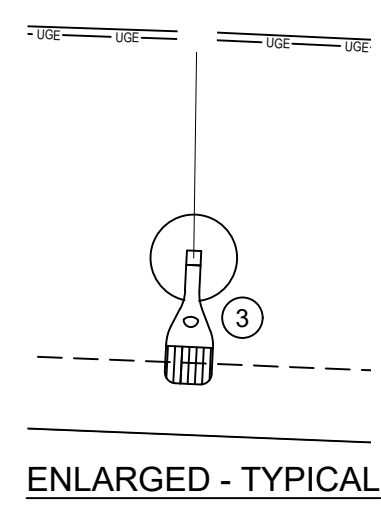


POLE BASE GROUNDING DETAIL - PARKING/DRIVE FIXTURES
NOT TO SCALE

- NOTES:**
1. ELECTRICAL CONTRACTOR SHALL SUBMIT SHOP DRAWING BY STRUCTURAL ENGINEER LICENSED AT PROJECT LOCATION OR AS PROVIDED BY MANUFACTURER APPLICABLE FOR THIS PROJECT SITE LOCATION. CREATE CONCRETE BASE OF DEPTH AND WITH DIAMETER AND FINAL CONSTRUCTION COMPLIANT WITH SUBMITTAL. TYPICAL 24"Ø WITH MINIMUM 72" DEPTH.
 2. INSTALL POLE AND LIGHT FIXTURE ASSEMBLY PER MANUFACTURER'S REQUIREMENTS WITH FINAL HEIGHT AS NOTED.
 3. POLE BASE TO BE TYPICALLY MIN 24" FROM BACK OF WALKWAY OR CURB TO FACE OF BASE.

EXTERIOR LIGHTING FIXTURE SCHEDULE									
TAG	CATEGORY	DESIGN BASE MODEL	LIGHT ENGINE	NOM. CURRENT (WATTS)	NOM. OUTPUT (LUMENS)	TEMP (K)	VOLTAGE	LOCATION	Description
S1	Roadway Polearm	CREE RSWX-BHT-3ME-32L-50K7-UH-GY-N; LAMP-OSRAM GWCSRM HOLOPHANE MGL EDM-P6-50K480-NRVH-GRSD-PCLL LITHONIA DSX2LED-P3-50K70CRI-T15-XVOLT-RPA-PER-DNATXD-DLL480	LED ARRAY	248	32000	5000	480V/1PH	POLE ARM	ROUND POLE, ARMATURE MOUNT (MIN 24") FLOOD/AREA LIGHTING FIXTURE, GRAY, ROADWAY TYPE-1 (SHORT FORWARD THROW, WIDE DISPERSION TO SIDES) OPTICS, PHOTOCELL

1 DESIGN BASED ON AVG >2fc, MAX 8fc, AT 27.5' FIXTURE HEIGHT ON 190' SPACING, AVG/MIN 12:1 OR BETTER



SITE LIGHTING PLAN
 NTS - SEE CIVIL/SITE PLANS FOR SCALE

DESIGN	REVIEW	CHECK
RAS	BPB	BPB

REVISIONS	
7/13/23 - REDESIGN; QTY=5	



BOYT ENGINEERING
 400 N. MARKET ST.
 MARION, IL 62959
 618-964-9418

FBO ACCESS ROAD EXTENSION
VETERANS AIRPORT
 WILLIAMSON COUNTY
 MARION, IL 62959

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 THESE PLANS CONTAIN THE CONFIDENTIAL PROPERTY AND EXCLUSIVE DESIGNS OF BOYT ENGINEERING. ANY USE OF THESE DRAWINGS OR THE INFORMATION CONTAINED HEREIN FOR ANY REASON OTHER THAN AS EXPRESSLY AUTHORIZED BY BOYT ENGINEERING IS STRICTLY PROHIBITED. THESE DRAWINGS HAVE BEEN DISTRIBUTED WITH THE UNDERSTANDING THAT ANYONE RECEIVING OR OTHERWISE OBTAINING POSSESSION OF THEM WILL BE EXPRESSLY NOTIFIED OF THEIR CONFIDENTIAL NATURE.

DATE: 03 APR 2023
 SHEET TITLE: SITE LIGHTING
 JOB NO: BE#43000123
 SHEET

SE1.1

NOTIFY ENGINEER IN EVENT OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS IN THE PROJECT DOCUMENTS. CONTRACTOR IS NOT AUTHORIZED TO SCALE THE DRAWINGS. ALL QUESTIONS SHALL BE IMMEDIATELY DIRECTED TO THE ENGINEER.