LET DATE: APRIL 25TH, 2025
LET ITEM NO. 14A

QUAD CITIES INTERNATIONAL AIRPORT

METROPOLITAN AIRPORT AUTHORITY
OF ROCK ISLAND COUNTY

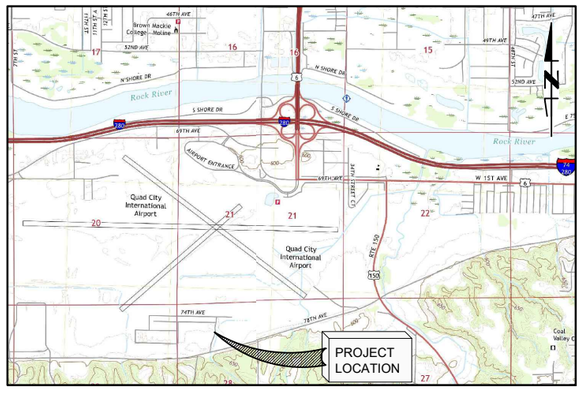
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

ROCK ISLAND COUNTY, IL

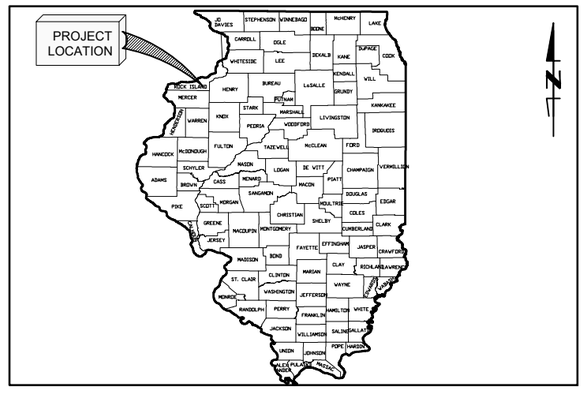
PROJECT NO. MLI-5023 | CONTRACT NO. QU025

100% DESIGN

FEBRUARY 28, 2025



VICINITY MAP
NTS



LOCATION MAP
NTS

INDEX OF SHEETS	
SHEET NUMBER	DESCRIPTION
1	COVER SHEET & INDEX
2	GENERAL NOTES
3-4	SUMMARY OF QUANTITIES
5	PROPOSED SITE LAYOUT
6	ADD ALT PLAN
7	MAINTENANCE OF TRAFFIC PLAN
8-9	CONSTRUCTION SAFETY PLAN
10	EXISTING CONDITIONS & PROPOSED REMOVALS
11-15	PROPOSED PLAN & PROFILES
16	TYPICAL SECTIONS
17-18	PAVEMENT MARKING & SIGNING PLAN
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40-56	MISCELLANEOUS DETAILS
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QUAD CITIES INTERNATIONAL AIRPORT

QUAD CITIES INTERNATIONAL AIRPORT - MLI
METROPOLITAN AIRPORT AUTHORITY
2200 69th Ave., Suite 100, Moline, Il 61265

Approved by: Benjamin J. Leischner - Executive Director Date

LICENSED PROFESSIONAL ENGINEER
MORGAN A. MAYS
062-066779
STATE OF ILLINOIS

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Illinois.

Signature Date

MORGAN A. MAYS
Printed or Typed Name

My license renewal date is November 30, 2025

Pages or sheets covered by this seal: All Sheets (See Index)

4620 E 53RD STREET
DAVENPORT, IA 52807-3620
(563) 293-7684

811
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APPROVALS	ENGINEER	DATE

PREPRARED FOR
QUAD CITIES INTERNATIONAL AIRPORT
CLIENT ENGINEER DATE

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260

SHEET 1

PROJECT NAME PROJECT NUMBER PROJECT LIMITS SUBMITAL NUMBER

Date: 25 Mar 2025 - 2:45pm User: STOUENSEN Layout: COVER
Drawing Name: 01-COVER.dwg

GENERAL NOTES

1. WORK FOR THIS PROJECT SHALL CONSIST OF, BUT IS NOT LIMITED TO, REALIGNMENT OF GENERAL AVIATION ENTRANCE ROAD (CURRENT 68TH STREET) BETWEEN 74TH AVENUE AND 78TH AVENUE (INDIAN BLUFF ROAD), REMOVAL OF OLD 68TH STREET NORTH OF THE USPS ENTRANCE, EXTENSION OF 75TH AVENUE TO THE REALIGNED GENERAL AVIATION ENTRANCE ROAD, A NEW ENTRANCE TO NOAA PARKING LOT FROM 75TH AVENUE, AND NECESSARY DRAINAGE MODIFICATIONS.

2. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT, AND TRANSPORTATION NECESSARY TO CONSTRUCT ALL ELEMENTS OF THE PROJECT AS DESCRIBED IN THE CONSTRUCTION PLANS AND SPECIFICATIONS. THE PROJECT PAY ITEMS ARE INTENDED TO BE INCLUSIVE OF ALL WORK TO BE PERFORMED AS SHOWN IN THESE PLANS. ALL INCIDENTAL WORK REQUIRED TO COMPLETE THE PROJECT TO THE SATISFACTION OF THE RESIDENT ENGINEER/TECHNICIAN IS TO BE INCLUDED IN THE COSTS OF PERFORMING THESE ITEMS.

3. THE RULES, REGULATIONS, AND SPECIFICATIONS ENUMERATED HEREIN SHALL BE CONSIDERED AS MINIMUM REQUIREMENTS. THEY SHALL NOT PROHIBIT THE CONTRACTOR FROM FURNISHING AND INSTALLING HIGHER GRADES OF MATERIAL THAN ARE SPECIFIED HEREIN.

4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT, PRESERVE AND REPAIR THE EXISTING ROADWAY PAVEMENTS AT ALL TIMES. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITIES, DRAINAGE, AND PAVEMENT STRUCTURES AT NO ADDITIONAL COST TO THE CONTRACT.

5. NO EQUIPMENT SHALL BE PERMITTED TO CROSS OR USE ANY EXISTING PAVEMENT OUTSIDE THE CONSTRUCTION LIMITS, GENERAL PROJECT AREA OR HAUL ROUTE.

6. CONTRACTOR IS REQUIRED TO PROVIDE THEIR OWN RESTROOM FACILITIES.

7. UNLESS OTHERWISE NOTED, ALL DISTURBED AREAS OUTSIDE OF THE PROPOSED CONSTRUCTION LIMITS SHALL BE GRADED, SEEDED AND MULCHED, OR HYDROMULCH SEEDED, AT NO ADDITIONAL COST TO THE CONTRACT.

8. EXCESS EXCAVATION MATERIAL SHALL BE PLACED AT A LOCATION ON AIRPORT PROPERTY TO BE DETERMINED BY THE AIRPORT MANAGER. ALL OTHER WASTE MATERIAL SHALL BE HAULED FROM THE AIRPORT AND PROPERLY DISPOSED OF UNLESS OTHERWISE SPECIFIED HEREIN.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMITS FOR HAULING ON PUBLIC ROADS, AS APPLICABLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY DAMAGES TO ANY PAVEMENTS (PUBLIC OR PRIVATE) CAUSED BY THEIR CONSTRUCTION EQUIPMENT OR PERSONNEL.

10. THE OWNER SHALL HAVE THE RIGHT OF FIRST REFUSAL FOR ALL SALVAGEABLE MATERIAL REMOVED ON THE PROJECT.

11. THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER/TECHNICIAN SO THEY MAY DEVELOP ONE SET OF REDLINED AS-BUILT DRAWINGS AT THE COMPLETION OF THE PROJECT.

12. CONTRACTOR SHALL NOTE THAT ALL AREAS WITHIN THE AIRPORT PROPERTY LINE AND OUTSIDE THE CONSTRUCTION LIMITS MAY BE USED FOR AGRICULTURAL PURPOSES. THE CONSTRUCTION LIMITS SHALL BE RESTRICTED TO AREAS THAT ARE ABSOLUTELY NECESSARY TO DISTURB TO COMPLETE THE REQUIRED WORK ITEMS. LIMITS SHALL BE COORDINATED WITH THE RESIDENT ENGINEER PRIOR TO BEGINNING ANY WORK. ALL AREAS WHICH HAVE BEEN FARMED AND/OR DESIGNATED TO BE FARMED AFTER THE PROJECT COMPLETION, AND HAVE BEEN DISTURBED BY CONSTRUCTION ACTIVITY, SHALL BE CHISEL PLOWED (36" MAX.) OR OTHERWISE SCARIFIED TO RETURN THE AREA TO A REASONABLE TILLABLE CONDITION (IF SO PERMITTED BY THE AIRPORT MANAGER.)

13. CONTRACTOR SHALL RESTORE TO ORIGINAL CONDITION ALL GRASS, STONE, OR PAVEMENT DISTURBED BY CONTRACTOR'S CONSTRUCTION OPERATIONS, STAGING, AND CONSTRUCTION ACCESS ROUTES. DISTURBED AREAS TO BE REPAIRED, GRADED, AND MULCHED SEEDED UNLESS OTHERWISE NOTED. STAGING AREA AND SITE ACCESS RESTORATION SHALL BE INCLUDED IN THE COST OF THE HAUL ROUTE.

14. APPROXIMATE LOCATIONS OF UNDERGROUND UTILITIES ARE SHOWN. THE CONTRACTOR SHALL DETERMINE EXACT LOCATIONS AND PROTECT THESE UTILITIES DURING CONSTRUCTION. ANY UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL COORDINATE WITH THE PROPER PERSONS FOR THE PURPOSE OF LOCATING AND PROTECTING EXISTING UNDERGROUND UTILITIES.

15. THE CONTRACTOR MUST AT ALL TIMES MAINTAIN PROPER DRAINAGE FOR ALL AREAS AFFECTED BY THEIR WORK.

16. THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF THE NPDES PERMIT NUMBER ILR10, ISSUED BY THE ILLINOIS ENVIRONMENTAL AGENCY FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES.

UTILITY NOTES

THE LOCATION, SIZE, AND TYPE OF MATERIAL OF EXISTING UNDERGROUND AND/OR ABOVEGROUND UTILITIES INDICATED ON THE PLANS ARE NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY WHATSOEVER IN RESPECT TO THE ACCURACY, COMPLETENESS, OR SUFFICIENCY OF THE INFORMATION. THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED, THAT THE LOCATIONS, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF THEIR OPERATIONAL PLANS AND SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE OWNER'S REPRESENTATIVE AND/OR THE RESIDENT ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY DAMAGE TO SUCH MAINS AND SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT. ALL UTILITY CABLES AND LINES SHALL BE LOCATED BY THE RESPECTIVE UTILITY. CONTACT JULIE (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS) FOR UTILITY INFORMATION, PHONE: 1-800-892-0123. CONTACT THE FAA (FEDERAL AVIATION ADMINISTRATION) FOR ASSISTANCE IN LOCATING FAA CABLES AND UTILITIES. LOCATION OF FAA POWER, CONTROL, AND COMMUNICATION CABLES SHALL BE COORDINATED WITH AND/OR LOCATED BY THE FAA. ALSO CONTACT AIRPORT DIRECTOR/MANAGER AND AIRPORT PERSONNEL FOR ASSISTANCE IN LOCATING UNDERGROUND AIRPORT CABLES AND/OR UTILITIES. ALSO COORDINATE WORK WITH ALL ABOVEGROUND UTILITIES.

UTILITY CONTACT INFORMATION

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812-213-1050

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309-944-8005

LUMEN
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PAT.CAIRNS@LUMEN.COM
CTL-RDMV-IA@LUMEN.COM

SURVEY NOTES

1. ALL COORDINATE VALUES SHOWN IN TABLE ARE BASED ON ILLINOIS STATE PLANE - WEST ZONE NAD-83 (2007).

BENCHMARK INFORMATION				
BM #	NORTHING	EASTING	ELEVATION	DESCRIPTION
BM #1	1738232.336	2203635.408	590.97	BM/ TOP CONC E
BM #2	1738829.297	2203385.347	578.59	BM/ CENTER BOLT HYD
BM #3	1738814.215	2203945.550	582.46	BM/ CENTER BOLT HYD

CONTROL POINTS INFORMATION				
BM #	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP #1	1738905.435	2202601.739	575.65	CP/ NAIL
CP #2	1738916.646	2202126.890	576.32	CP/ NAIL
CP #3	1738887.110	2203402.498	576.38	CP/ NAIL
CP #4	1739051.750	2203866.234	579.61	CP/ NAIL
CP #5	1739005.361	2204350.530	575.24	CP/ NAIL
CP #6	1738632.793	2203805.980	582.70	CP/ NAIL
CP #7	1738191.642	2203723.439	589.04	CP/ NAIL

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CONSULTANTS
HDR
4620 E 53RD STREET
DAVENPORT, IA 52807-3620
(563) 293-7684

PREPARED FOR
QUAD CITIES INTERNATIONAL AIRPORT

NO.	DATE	DESCRIPTION	BY
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		INSPECTOR'S ACCEPTANCE BY: DATE:	
		FIELD VERIFICATION BY: DATE:	
		DRAWINGS CORRECTED BY: DATE:	

DESIGNED BY: MM
DRAWN BY: AJ
CHECKED BY: SM
DATE:

METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

GENERAL NOTES

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. 2 of 61

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY		ESTIMATE REFERENCE NOTE
			TOTAL	AS–BUILT	
AR108005	TEST ELECTRICAL CIRCUIT	L SUM	1		SEE LIGHTING SPECIAL PROVISION
AR108401	1/C #1 600 V UG CABLE	FOOT	250		SEE LIGHTING SPECIAL PROVISION
AR108406	1/C #6 600 V UG CABLE	FOOT	150		SEE LIGHTING SPECIAL PROVISION
AR108408	1/C #8 600 V UG CABLE	FOOT	11800		SEE LIGHTING SPECIAL PROVISION
AR108960	REMOVE CABLE	FOOT	6800		SEE LIGHTING SPECIAL PROVISION
AR109909	REMOVE CONTROL PANEL	L. SUM	1		SEE LIGHTING SPECIAL PROVISION
AR110312	2" STEEL DUCT, JACKED	FOOT	408		SEE LIGHTING SPECIAL PROVISION
AR110610	ELECTRICAL HANDHOLE	EACH	15		SEE LIGHTING SPECIAL PROVISION
AR110906	REMOVE ELECTRICAL HANDHOLE	EACH	6		SEE LIGHTING SPECIAL PROVISION
AR150520	MOBILIZATION	L SUM	1		6% OF ALL OTHER ITEMS.
AR151420	CLEARING TREES 0–2.5' BUTT DIA.	EACH	4		
AR151455	CLEARING AND GRUBBING	L SUM	1		
AR152410	UNCLASSIFIED EXCAVATION/EMBANKMENT	CU YD	9590		CUT VOLUME = 762 CY, FILL VOLUME = 8827 CY. SEE SPECIAL PROVISION
AR152411	UNCLASSIFIED EXCAVATION (BOX CULVERT UNDERCUT)	L SUM	1		ASSUMED QUANTITY UNDER RCB. SEE STRUCTURAL SHEETS
AR152541	STABILIZATION GEOGRID	SQ YD	6201		
AR156510	SILT FENCE	FOOT	1339		ENTIRE DOWNSTREAM SIDE OF PROJECT TO BE LINED WITH SILT FENCE.
AR156514	DITCH CHECK (ROLLED EXCELSIOR)	FOOT	525		
AR156520	INLET PROTECTION	EACH	8		
AR156530	TEMPORARY SEEDING	ACRE	1.5		
AR156531	EROSION CONTROL BLANKET	SQ YD	4432		
AR208515	POROUS GRANULAR EMBANKMENT	CU YD	111		SEE STRUCTURAL SHEETS
AR209606	CRUSHED AGG. BASE COURSE – 6"	SQ YD	6201		BASE COURSE FOR CONCRETE PAVEMENT SECTIONS.
AR209608	CRUSHED AGG. BASE COURSE – 8"	SQ YD	233		BASE COURSE FOR ASPHALT PAVEMENT SECTIONS.
AR401610	BITUMINOUS SURFACE COURSE	TON	22		
AR401900	REMOVE BITUMINOUS PAVEMENT	SQ YD	120		REMOVAL OF PORTION OF ASHPALT PARKING LOT.
AR403610	BITUMINOUS BASE COURSE	TON	29		
AR501508	8" PCC PAVEMENT	SQ YD	5841		CONCRETE ROADWAY & INTEGRAL CURB.
AR501900	REMOVE PCC PAVEMENT	SQ YD	1530		REMOVAL OF PORTION OF EXISTING 68TH ST.
AR602510	BITUMINOUS PRIME COAT	GALLON	58		
AR603510	BITUMINOUS TACK COAT	GALLON	49		
AR620520	PAVEMENT MARKING– WATERBORNE	SQ FT	1675		SEE PAVEMENT MARKING & SIGNING PLAN
AR701183	PRECAST 8' X 3' BOX CULVERT	FOOT	76		SEE STRUCTURAL SHEETS
AR701512	12" RCP, CLASS IV	FOOT	173		
AR701515	15" RCP, CLASS IV	FOOT	76		
AR701548	48" RCP, CLASS IV	FOOT	168		
AR701900	REMOVE PIPE	FOOT	300		
AR705506	6" PERFORATED UNDERDRAIN	FOOT	2024		
AR705546	6" NON PERFORATED UNDERDRAIN	FOOT	212		
AR705610	CONCRETE HEADWALL FOR UNDERDRAIN	EACH	7		
AR705640	UNDERDRAIN CLEANOUT	EACH	19		
AR751411	INLET – TYPE A	EACH	2		
AR751540	MANHOLE 4'	EACH	1		
AR751550	MANHOLE 5'	EACH	1		
AR751560	MANHOLE 6'	EACH	1		
AR751900	REMOVE CURB INLET	EACH	2.0		
AR751903	REMOVE MANHOLE	EACH	1		
AR752900	REMOVE END SECTION	EACH	1		
AR754900	REMOVE CONCRETE CURB	FOOT	360		
AR752600	CONCRETE HEADWALL (BOX CULVERT END SECTIONS)	EACH	2		SEE STRUCTURAL SHEETS
AR752412	PRECAST REINFORCED CONC. FES 12"	EACH	3		
AR752415	PRECAST REINFORCED CONC. FES 15"	EACH	1		
AR752448	PRECAST REINFORCED CONC. FES 48"	EACH	2		
AR754410	CONCRETE CURB AND GUTTER	FOOT	285		
AR901510	SEEDING	ACRE	1.5		
AR905530	TOPSOILING (4")	SQ YD	7225		
AR910110	RDWY LIGHT POLE W/FIXTURE	EACH	27		SEE LIGHTING SPECIAL PROVISION
AR910200	ROADWAY SIGN	EACH	12		SEE PAVEMENT MARKING & SIGNING PLAN
AR910430	MAINTENANCE OF TRAFFIC	L SUM	1		
AR910905	REMOVE RDWY LGT POLE W/FIXTURE	EACH	13		SEE LIGHTING SPECIAL PROVISION
AR910915	REMOVE ROAD SIGNS	EACH	5		
AR800400	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	101		SEE STRUCTURAL SHEETS
AR800402	FLEXAMAT PLUS	SQ YD	1189		SEE SPECIAL PROVISION. EROSION CONTROL MEASURE AT CURB CUTS & HEADWALL/FES STRUCTURES.
AR800403	REMOVE FUSIBLE SERVICE DISCONNECT SWITCH	EACH	1		SEE LIGHTING SPECIAL PROVISION
AR800404	LIGHT POLE FOUNDATION	EACH	27		SEE LIGHTING SPECIAL PROVISION
AR800405	FUSIBLE SERVICE DISCONNECT, 100	EACH	1		SEE LIGHTING SPECIAL PROVISION
AR800406	LIGHTING CONTROL CABINET	EACH	1		SEE LIGHTING SPECIAL PROVISION
AR800407	HDPE DUCT, 600 V	FOOT	3200		SEE LIGHTING SPECIAL PROVISION
AR800409	ROCKFILL	CU YD	180		SEE STRUCTURAL SHEETS

NOTE:

1. EARTHWORK QUANTITIES (CUT/FILL VOLUMES) SHOWN WERE CALCULATED UTILIZING AUTODESK CIVIL3D SOFTWARE THROUGH AUTOCAD. THE CALCULATION METHOD WAS BY A COMPARISON OF SURFACE MODELS CREATED WITH EXISTING SURVEY DATA AND PROPOSED DESIGN GRADES. THE VOLUMES WERE CALCULATED IN TWO PARTS: THE CUT/FILL VOLUME REQUIRED TO CORE OUT AND FILL FOR THE PROPOSED PAVEMENT SECTION AS COMPARED TO THE EXISTING SUBGRADE DATUM, AND THE CUT/FILL VOLUMES REQUIRED FOR PROPOSED GRADING WORK OUTSIDE OF THE PROPOSED PAVEMENT LIMITS AS COMPARED TO THE EXISTING GROUND SURFACE. THE VALUE IN THE SUMMARY TABLE REPRESENT A TOTAL OF THESE TWO PARTS ADDED TOGETHER FOR CLARITY. NOTE THAT A CUT AND FILL FACTOR OF 1 WAS USED.
2. QUANTITY OF PAVEMENT CONCRETE (AR501508) IS UNDER 2000 CY AND PWL IS THEREFORE NOT APPROPRIATE FOR ACCEPTANCE CRITERIA. SEE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS FOR MORE INFORMATION.

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QUAD CITIES INTERNATIONAL AIRPORT

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METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

SUMMARY OF QUANTITIES (1 OF 2)

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. 3 of 61

ADD ALT 1 – 78TH AVE SHOULDER IMPROVEMENT (SOUTH ONLY)				
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	
			TOTAL	AS–BUILT
AS152410	UNCLASSIFIED EXCAVATION/EMBANKMENT	CU YD	52	
AS209608	CRUSHED AGGREGATE BASE COURSE – 8"	SQ YD	155	
AS403610	BITUMINOUS BASE COURSE	TON	34	
AS401610	BITUMINOUS SURFACE COURSE	TON	34	
AS602510	BITUMINOUS PRIME COAT	GALLON	39	
AS603510	BITUMINOUS TACK COAT	GALLON	39	
AS800401	AGGREGATE SHOULDER REMOVAL	CU YD	60	
SEE ADD ALT PLAN SHEET FOR MORE DETAILS				

ADD ALT 2 – ADDITIONAL STREET LIGHT REPLACEMENTS				
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	
			TOTAL	AS–BUILT
AT108408	1/C #8 600 V UG CABLE	FOOT	5985	
AT108960	REMOVE CABLE	FOOT	5550	
AT910110	RDWY LIGHT POLE W/FIXTURE	EACH	13	
AT910905	REMOVE RDWY LGT POLE W/ FIXTURE	EACH	13	
AT800408	1 1/2" HDPE CONDUIT	FOOT	1945	
SEE LIGHTING SHEETS FOR MORE DETAILS				

ADD ALT 3 – PAVEMENT PATCHING ON 68TH STREET				
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	
			TOTAL	AS–BUILT
AU501910	REMOVE & REPLACE PCC PAVEMENT	SQ YD	482	
SEE ADD ALT PLAN SHEET FOR MORE DETAILS				

CONSULTANTS
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PREPARED FOR
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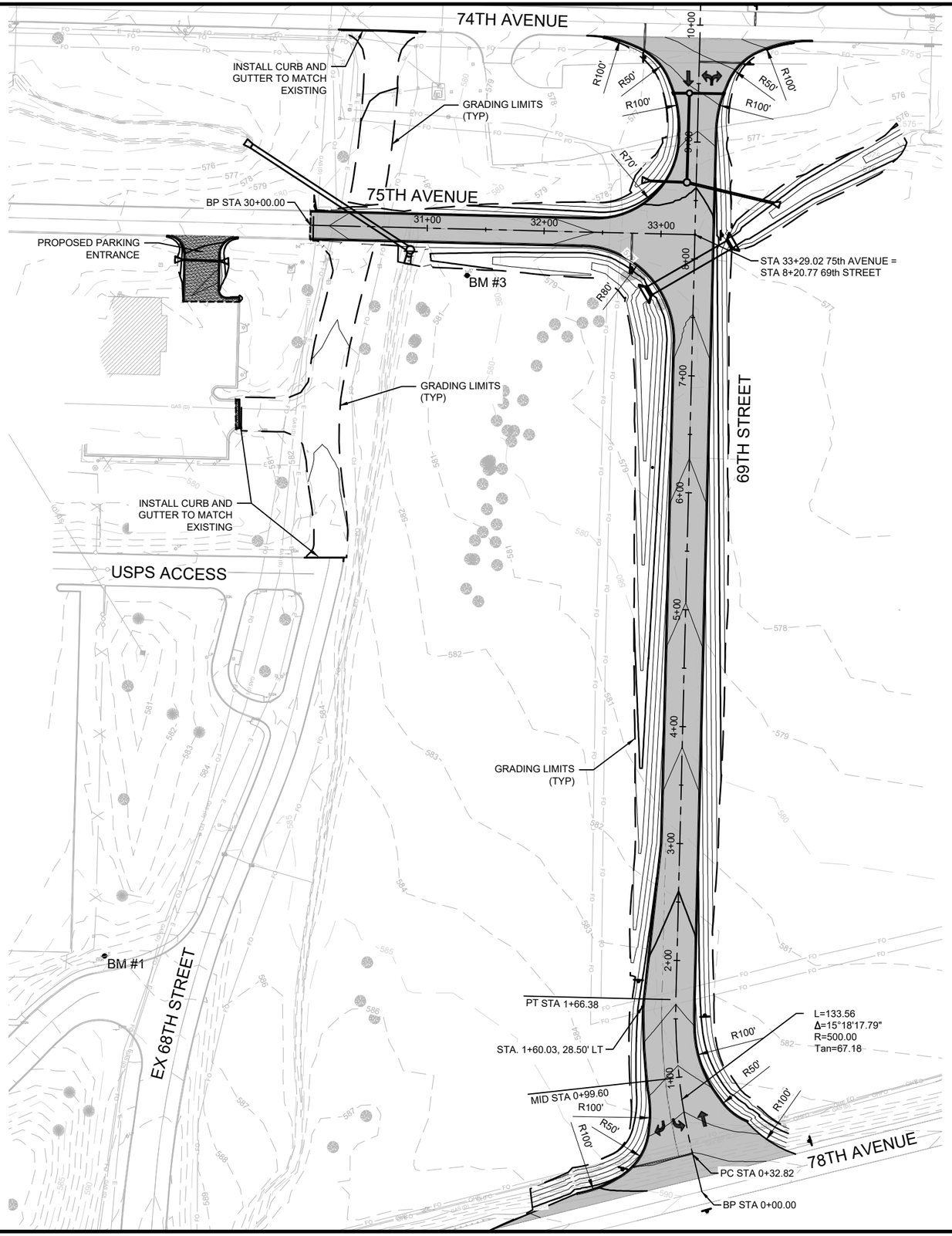
METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

SUMMARY OF QUANTITIES (2 OF 2)

CLIENT APPROVAL | CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. **4 of 61**

Date: 11 Feb 2025 - 3:45pm User: STOJENSEN Layout: SQ01-02
Drawing Name: 02-SUMMARY OF QUANTITIES.dwg



100' 50' 0 100'

SCALE: 1" = 100'

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CONSULTANTS

HDR

4620 E 53RD STREET
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METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

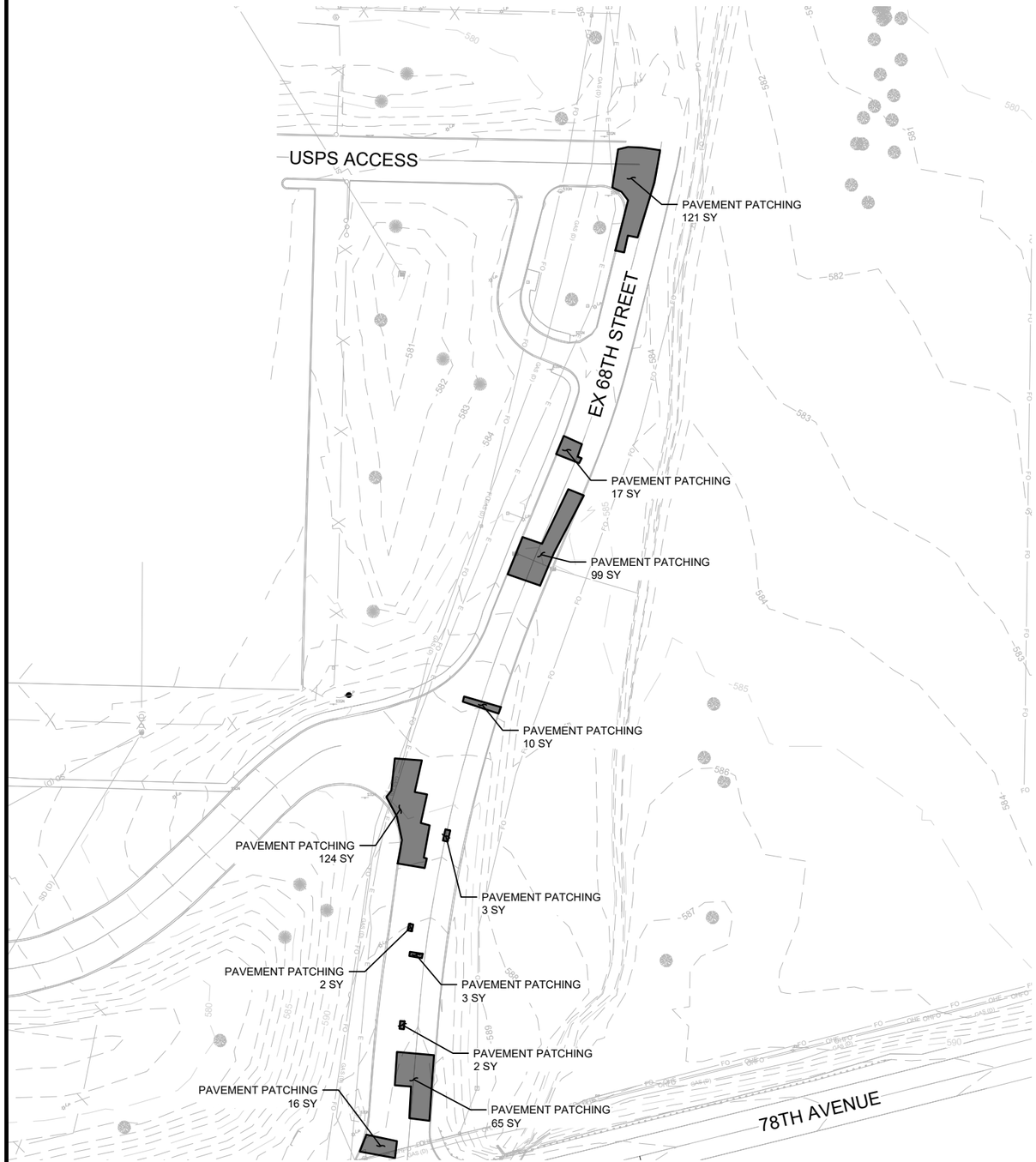
PROPOSED SITE LAYOUT

CLIENT APPROVAL	CLIENT APPROVAL

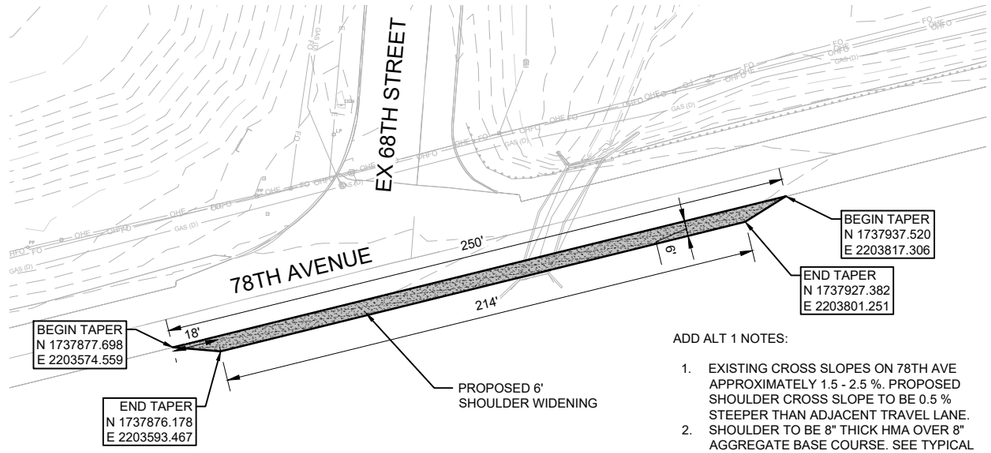
PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. **5 of 61**

NOTES:

1. SEE LIGHTING SHEETS FOR ADD ALT 2



ADD ALT 3 - PAVEMENT PATCHING
SCALE: 1" = 80'



ADD ALT 1 NOTES:

1. EXISTING CROSS SLOPES ON 78TH AVE APPROXIMATELY 1.5 - 2.5 %. PROPOSED SHOULDER CROSS SLOPE TO BE 0.5 % STEEPER THAN ADJACENT TRAVEL LANE.
2. SHOULDER TO BE 8" THICK HMA OVER 8" AGGREGATE BASE COURSE. SEE TYPICAL SECTION FOR DETAILS.

ADD ALT 1 - SHOULDER WIDENING
SCALE: 1" = 60'

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HDR
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DAVENPORT, IA 52807-3620
(563) 293-7684

PREPARED FOR
QUAD CITIES INTERNATIONAL AIRPORT

NO.	DATE	DESCRIPTION	BY
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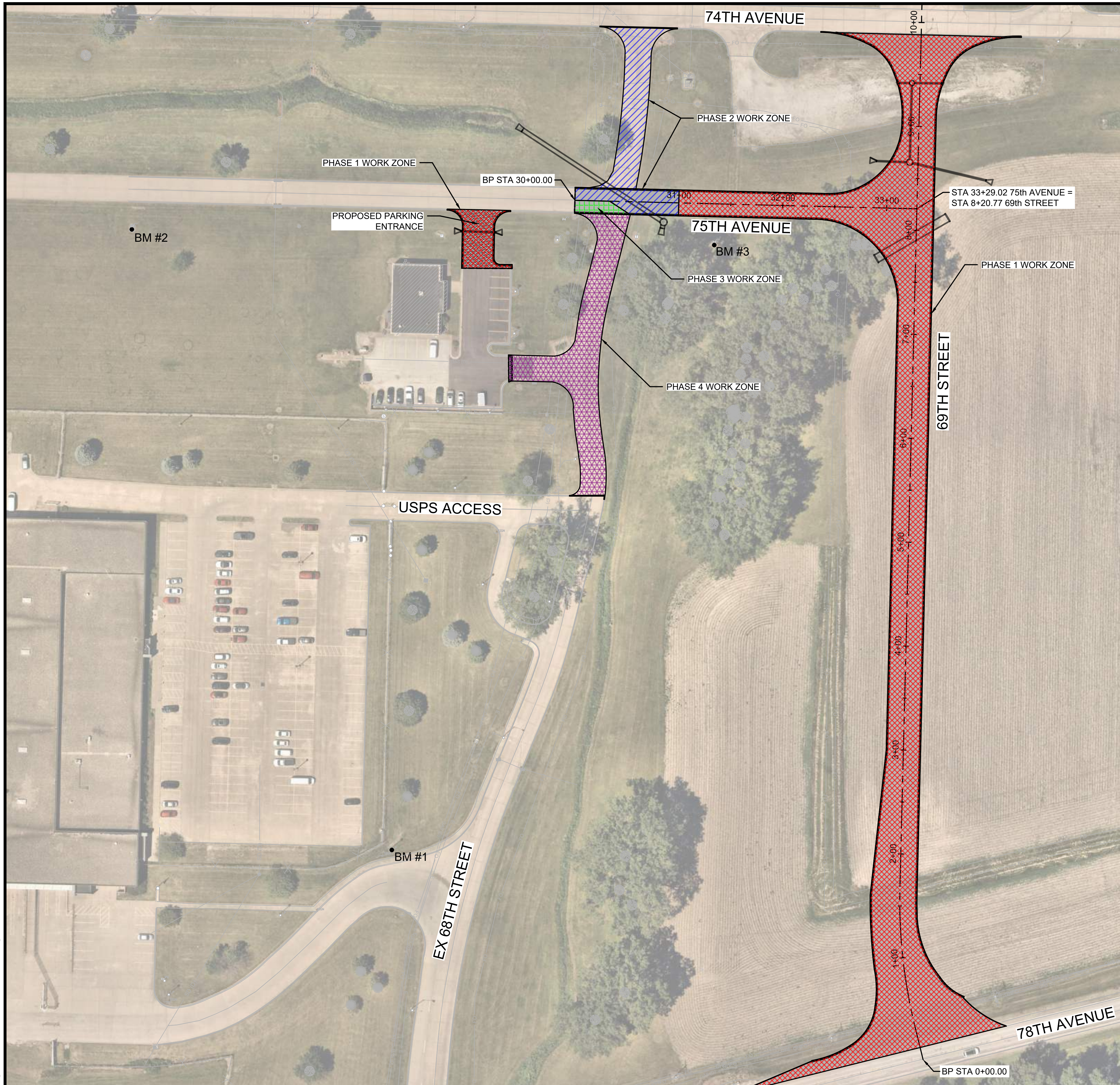
DESIGNED BY: MM
DRAWN BY: AJ
CHECKED BY: SM
DATE:

METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

ADD ALT PLAN

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. **6 of 61**



GENERAL NOTES

A. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH QCIA AND ADJACENT FACILITIES TO MAINTAIN ACCESS DURING BUSINESS/WORKING HOURS.
B. THE CONTRACTOR SHALL MAINTAIN ACCESS AT CROSS STREETS FOR VEHICLES AT ALL TIMES UNLESS SPECIFICALLY NOTED. SIDE STREET CLOSURES REQUIRE APPROVAL BY QCIA.
C. THE CONTRACTOR SHALL MAINTAIN TRAFFIC IN 78TH AVENUE. ANY CONSTRUCTION WORK AND LANE CLOSURES WITHIN 78TH AVENUE ROW SHALL BE COORDINATED AND APPROVED BY ROCK ISLAND COUNTY HIGHWAY DEPARTMENT.
D. TWO WEEKS PRIOR TO ROAD CLOSURE, THE CONTRACTOR SHALL ERECT PROJECT SIGNS AND PORTABLE CHANGEABLE MESSAGE SIGNS AND NOTIFY QCIA THAT CLOSURE WILL BEGIN.
E. ALL ADVANCE CONSTRUCTION SIGNING SHALL BE IN PLACE PRIOR TO CONSTRUCTION COMMENCING IN EACH STAGE AND PHASE. NO WORK SHALL BE PERFORMED UNTIL ALL DEVICES IN OPERATION.
F. REFER TO ALL TRAFFIC CONTROL NOTES ON MOT PLANS, IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION, ALL SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS CURRENT EDITIONS, AND THE MUTCD CURRENT EDITION.
G. ALTERNATIVE CONSTRUCTION PHASING SUBJECT TO APPROVAL BY ENGINEER & THE AIRPORT.

PHASING NOTES

PHASE 1
- TRAFFIC TO BE MAINTAINED IN EXISTING 68TH STREET.
- CONSTRUCT PROPOSED 69TH STREET EMBANKMENT, PAVEMENT, CURB AND GUTTER, DRAINAGE INFRASTRUCTURE, PAVEMENT MARKING, TRAFFIC SIGNS, AND LIGHTING INFRASTRUCTURE.
- CONSTRUCT PROPOSED 75TH AVENUE EXTENSION EMBANKMENT, PAVEMENT, CURB AND GUTTER, DRAINAGE INFRASTRUCTURE, PAVEMENT MARKING, TRAFFIC SIGNS, AND LIGHTING INFRASTRUCTURE SHOWN WITHIN PHASE 1 AREA.
- CONSTRUCT PROPOSED ENTRANCE TO NOAA PARKING LOT.

PHASE 2
- TRAFFIC TO BE OPENED IN NEWLY CONSTRUCTED 69TH ST.
- REMOVE EXISTING 68TH STREET PAVEMENT NORTH OF 75TH AVENUE, WITHIN PHASE 2 AREA.
- CONSTRUCT 1ST HALF OF 75TH AVENUE PAVEMENT AT 68TH STREET INTERSECTION, SHOWN WITHIN PHASE 2 AREA.

PHASE 3
- TRAFFIC TO BE OPENED IN PORTION OF 75TH STREET CONSTRUCTED IN PHASES 1 & 2.
- CONSTRUCT 2ND HALF OF 75TH AVENUE PAVEMENT AT 68TH STREET INTERSECTION, SHOWN WITHIN PHASE 3 AREA.

PHASE 4
- TRAFFIC TO BE OPENED IN PORTION OF 75TH STREET CONSTRUCTED IN PHASES 1-3.
- REMAINING OF EXISTING 68TH STREET WITHIN THE PHASE 4 SECTION TO BE DEMOLISHED AS SHOWN IN DEMO PLANS.

LEGEND

PHASE 1 WORK ZONE - 58 WORKING DAYS
PHASE 2 WORK ZONE - 15 WORKING DAYS
PHASE 3 WORK ZONE - 10 WORKING DAYS
PHASE 4 WORK ZONE - 7 WORKING DAYS
TOTAL WORKING DAYS ASSUMED = 90 DAYS

100' 50' 0 100'
SCALE: 1" = 100'

811
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METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)

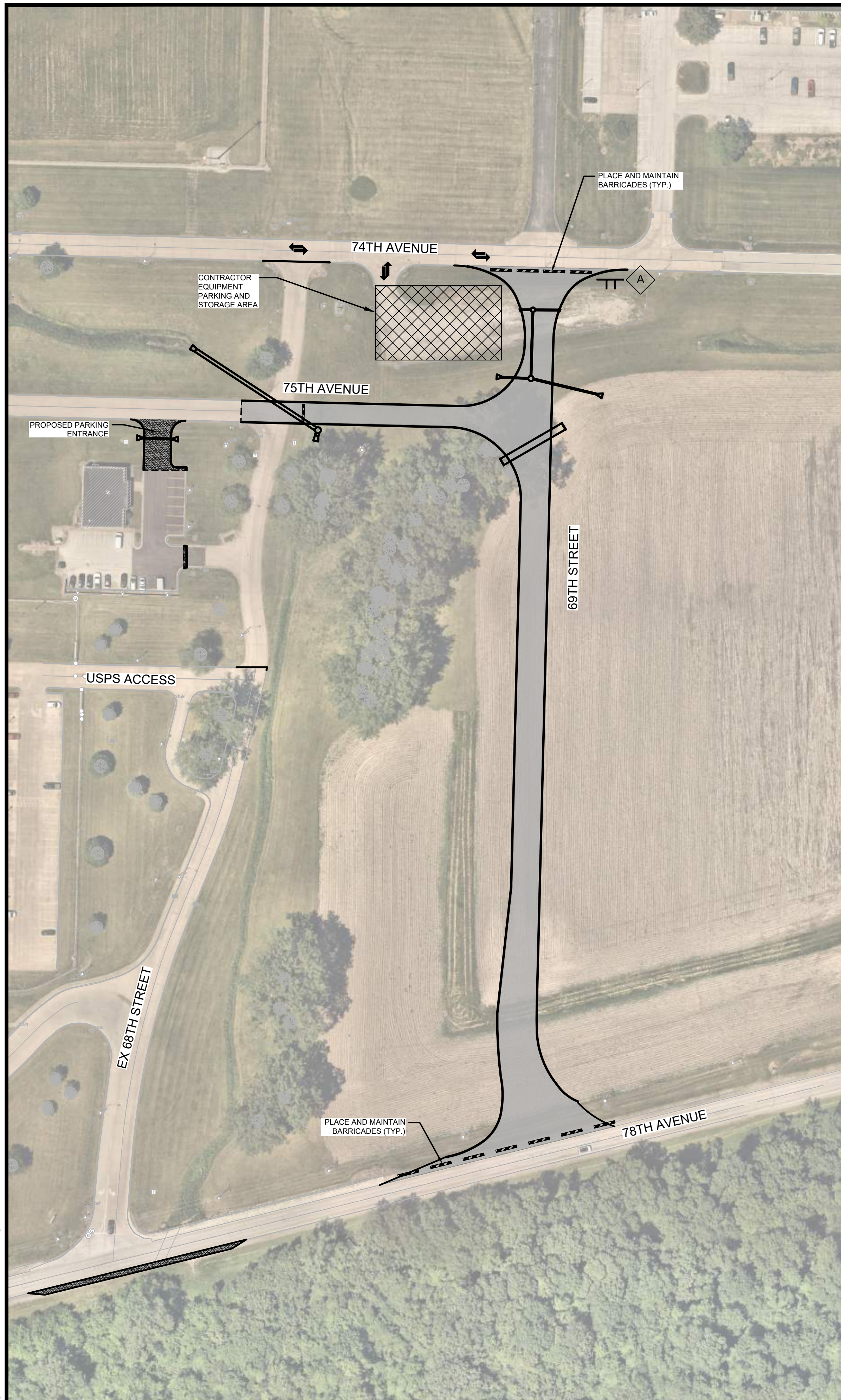
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

PHASING & MAINTENANCE OF TRAFFIC PLAN

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. 7 of 61

Date: 11 Feb 2025 - 3:48pm User: STOJENSEN Layout: MOT
Drawing Name: 29-MAINTENANCE OF TRAFFIC PLAN.dwg



PROPOSED SAFETY PLAN

GENERAL - THE QUAD CITIES INTERNATIONAL AIRPORT IS COMPRISED OF THREE RUNWAYS. THE PROPOSED CONSTRUCTION WILL NOT NECESSITATE CLOSING ANY RUNWAY OR ANY OTHER ACTIVE AIRFIELD PAVEMENT. ALL WORK TO BE COMPLETED IS OUTSIDE OF THE AIRPORT OPERATIONS AREA (AOA).

RADIO CONTROL - THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN COMMUNICATION WITH THE DESIGNATED HDR CONSTRUCTION OBSERVATION REPRESENTATIVE IN ORDER TO MAINTAIN CONTACT WITH THE AIRPORT.

IDENTIFICATION - WHEN THE CONTRACTORS VEHICLES AND EQUIPMENT ARE ON THE AIRPORT, THEY SHALL BE PROPERLY MARKED WITH THREE (3') FOOT SQUARE CHECKERED FLAGS (INTERNATIONAL ORANGE AND WHITE). THE CONTRACTOR WILL ALSO PROVIDE WORKERS WITH SOME TYPE OF TAG OR GARMENT TO IDENTIFY THE PERSON AS BEING PART OF THE CONSTRUCTION CREW.

SAFETY PLAN COMPLIANCE DOCUMENT

PRIOR TO THE ISSUANCE OF A CONSTRUCTION NOTICE-TO-PROCEED (NTP), THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING AND SUBMITTING A SAFETY PLAN COMPLIANCE DOCUMENT IN ACCORDANCE WITH FAA ADVISORY CIRCULAR 150/5370-2G, PARAGRAPH 2.4.2, OR EQUIVALENT SECTION IN SUBSEQUENT/CURRENT THE AIRPORT DIRECTOR SHALL APPROVE THIS DOCUMENT AND SUBMIT TO THE AIRPORT AUTHORITY FOR APPROVAL PRIOR TO THE NTP ISSUANCE.

HEIGHT OF CONSTRUCTION EQUIPMENT

THE MAXIMUM ANTICIPATED HEIGHT OF THE CONSTRUCTION EQUIPMENT WILL BE 25 FEET, WHICH IS EXPECTED TO BE A TRACTOR AND TRAILER FULLY EXTENDED OR A LINE TRUCK. IF EQUIPMENT TALLER THAN 25' IS ANTICIPATED TO BE USED DURING THE WORK, THE CONTRACTOR SHALL COORDINATE WITH HDR'S CONSTRUCTION OBSERVATION REPRESENTATIVE AND THE AIRPORT. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A 7460 NOTICE OF CONSTRUCTION ALTERATION TO ENSURE THE EQUIPMENT DOES NOT IMPACT APPLICABLE FAA PROTECTION SURFACES.

EROSION CONTROL

THIS PROJECT WILL DISTURB MORE THAN 1 ACRE OF LAND, THEREFORE, A N.P.D.E.S PERMIT WILL BE REQUIRED. THIS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

TOPSOIL

TOPSOIL SHALL BE STOCKPILED WITHIN THE PROJECT LIMITS AS COORDINATED WITH THE RESIDENT ENGINEER. EXCESS TOPSOIL SHALL BE STOCKED AS DIRECT BY THE AIRPORT; CURRENTLY ASSUMED TO BE ADDED TO EXISTING STOCKPILE NEAR 47TH STREET AND 73RD AVENUE ON AIRPORT PROPERTY.

SAFETY PLAN NOTES

1. BARRICADES SHALL BE IN PLACE PRIOR TO BEGINNING CONSTRUCTION.
2. AT ALL TIMES, THE CONTRACTOR'S OPERATIONS SHALL BE SUCH AS TO MINIMIZE DISRUPTION TO AIRPORT TRAFFIC.
3. AIRPORT SECURITY SHALL BE MAINTAINED THROUGHOUT THE PROJECT. THE CONTRACTOR SHALL BE RESTRICTED TO THE DESIGNATED WORK AREAS. THE CONTRACTOR SHALL ENSURE THAT ACCESS POINTS USED BY CONSTRUCTION VEHICLES AND PERSONNEL ARE MONITORED WHEN OPEN AND LOCKED WHEN NOT IN USE TO PREVENT UNAUTHORIZED ACCESS TO THE AIRPORT MOVEMENT AREA.
4. AT THE COMPLETION OF ALL WORK AREA CONSTRUCTION, THE HAUL ROUTE AND CONSTRUCTION EQUIPMENT PARKING AREA SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITIONS PER THE SPECIFICATIONS.
5. THE COSTS FOR PROVISION, PLACEMENT, MAINTENANCE AND REMOVAL OF BARRICADES AND ALL ASSOCIATED INCIDENTALS SHALL BE PAID FOR UNDER ITEM AR150520 MOBILIZATION.
6. THE COSTS FOR CONSTRUCTION/MAINTENANCE OF HAUL ROUTE AND EQUIPMENT STAGING AREA, TEMPORARY SIGNAGE AND ALL ASSOCIATED INCIDENTALS SHALL BE PAID FOR UNDER ITEM AR150520 MOBILIZATION.
7. IF ANOTHER PROJECT IS ACTIVE AT THE SAME TIME AS THIS CONTRACT, COORDINATION BETWEEN THE CONTRACTS IS MANDATORY. NO TIME EXTENSIONS OR CHANGE ORDERS WILL BE PROCESSED DUE TO LACK OF COORDINATION BETWEEN CONTRACTS. ANY POTENTIAL DELAYS OR CONFLICTS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER/TECHNICIAN.
8. ALL EXCESS MATERIAL TO BE STORED OR PLACED AT THE DIRECTION OF THE AIRPORT UNLESS DEEMED UNSUITABLE AND THUS HAULED OFFSITE AT THE CONTRACTOR'S EXPENSE.

LEGEND

- PROPOSED PAVEMENT
- CONSTRUCTION STAGING AREA
- TRAFFIC DIRECTION
- PROPOSED BARRICADES
- TEMPORARY CONSTRUCTION SIGN

150' 75' 0 150'

SCALE: 1" = 150'

811

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PREPARED FOR

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METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)

REALIGN THE GENERAL AVIATION ENTRANCE ROAD

CONSTRUCTION SAFETY PLAN (1 OF 2)

CLIENT APPROVAL | CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260

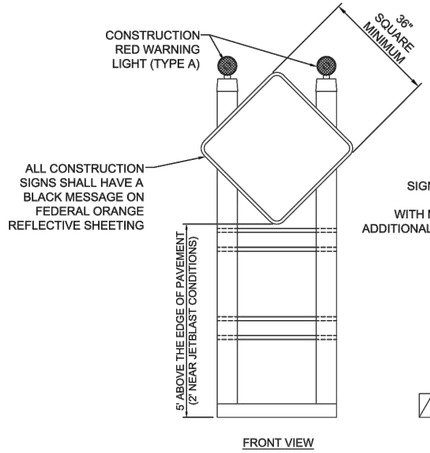
SAFETY NOTES

1. THE FOLLOWING NOTES ARE THE CONSTRUCTION SAFETY PROCEDURES THAT THE CONTRACTOR SHALL FOLLOW THROUGHOUT THIS PROJECT. ADDITIONAL REQUIREMENTS ARE SHOWN ON THE CONSTRUCTION SAFETY AND PHASING PLAN SHEET AND THIS SHEET.
2. ALL PROVISIONS OF THE LATEST EDITION OF FAA ADVISORY CIRCULAR AC 150/5370-2G (CURRENT EDITION), "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION", APPLY TO THIS CONTRACT.
3. THE CONTRACTORS SHALL MINIMIZE DISRUPTION OF STANDARD OPERATING PROCEDURES FOR AERONAUTICAL ACTIVITY BY REMAINING WITHIN THE PRESCRIBED STAGING, CONSTRUCTION, AND PHASING AREAS PRESENTED ON THE CONSTRUCTION SAFETY AND PHASING PLAN SHEETS.
4. NO UNAUTHORIZED PERSONNEL SHALL ENTER ANY AREA OF THE AIRPORT THAT COULD POTENTIALLY BE HAZARDOUS. THE AIRPORT MANAGER RESERVES THE RIGHT TO SUSPEND OPERATIONS IN ORDER TO MAINTAIN SAFETY AT THE AIRPORT.
5. CONTRACTOR EQUIPMENT, VEHICLES, AND PROJECT MATERIALS SHALL BE STORED AT THE STAGING AREA SHOWN ON THE PLAN VIEW.
6. ALL CONSTRUCTION EQUIPMENT OPERATING IN THE PRESCRIBED CONSTRUCTION AREA IS REQUIRED TO DISPLAY A CHECKERBOARD FLAG PROPERLY LOCATED OR A ROTATING BEACON (STROBE) AS SPECIFIED IN AC 150/5210-5D, "PAINTING, MARKING, AND LIGHTING OF VEHICLES USED ON AN AIRPORT" LATEST EDITION.
7. NO CONSTRUCTION MATERIAL STOCKPILES SHALL BE LOCATED WITHIN 125' OF ANY ACTIVE RUNWAY CENTERLINE, WITHIN 44.5' OF ANY OTHER ACTIVE AIRPORT OPERATIONS AREA (EX. TAXIWAY), OR PENETRATE A PART 77 IMAGINARY SURFACE (PROVIDED BY THE RESIDENT ENGINEER/TECHNICIAN) EXTENDING OUT AND UPWARDS FROM ALL SIDES OF AN ACTIVE RUNWAY.
8. OPEN TRENCHES, EXCAVATIONS, AND STOCKPILED MATERIALS AT THE CONSTRUCTION SITE SHOULD BE PROMINENTLY MARKED WITH ORANGE FLAGS AND LIGHTED WITH FLASHING RED LIGHTS DURING HOURS OF RESTRICTED VISIBILITY AND/OR DARKNESS.
9. NO CONSTRUCTION EQUIPMENT GREATER THAN 25' TALL WILL BE PERMITTED ON THE AIRPORT UNLESS PERMITTED WITH THE APPROVAL OF THE AIRPORT MANAGER AND AIRSPACE APPROVAL BY THE FAA.
10. NO OPEN FLAME WELDING OR TORCH CUTTING OPERATION IS PERMITTED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS ARE PROVIDED AND HAVE BEEN APPROVED BY THE AIRPORT MANAGER NO FLARE POTS ARE ALLOWED ON THE PROJECT.
11. SOIL, DEBRIS, AND LOOSE MATERIAL DROPPED OR TRACKED ONTO AIRPORT ROADS, TAXIWAYS, AND SOD SURFACES, OR WHICH CAN BE BLOWN ONTO SUCH SURFACES, SHALL BE IMMEDIATELY SWEPT, PICKED UP AND REMOVED, OR PLACED INTO CLOSED CONTAINERS. ANY DAMAGE TO AIRPORT PROPERTY SHALL BE REPAIRED IMMEDIATELY AT NO COST TO THE OWNER.
12. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MAINTAINING AIRPORT LIGHTING AND NAVIGATIONAL ELECTRICAL SYSTEMS DURING CONSTRUCTION. A CONTACT PERSON AND TELEPHONE NUMBER FOR 24 HOUR EMERGENCY IMMEDIATE REPAIR SHALL BE SUBMITTED TO THE AIRPORT MANAGER AND RESIDENT ENGINEER/TECHNICIAN. HAUL ROUTES CROSSING PAVEMENT, DRAINAGE, MISCELLANEOUS. STRUCTURES AND/OR AIRFIELD CABLES SHALL BE PROTECTED FROM DAMAGE.
13. ALL AIRPORT OPERATIONS HAVE THE RIGHT-OF-WAY. CONTRACTOR TO YIELD TO VEHICLES AND REMAIN CLEAR AT ALL TIMES.
14. CONTRACTOR SHALL MARK HAZARDOUS AREA WITH STEADY-BURNING OR FLASHING RED LIGHTS DURING PERIODS OF LOW VISIBILITY AS REQUIRED.
15. THE CONTRACTOR SHALL PERIODICALLY PERFORM ONSITE INSPECTIONS THROUGHOUT THE DURATION OF THE PROJECT WITH THE IMMEDIATE REMEDY OF ANY DIFFERENCES, WHETHER CAUSED BY NEGLIGENCE, OVERSIGHT, OR PROJECT SCOPE CHANGE.
16. CONTRACTOR SHALL MOVE MAINTENANCE OF TRAFFIC COMPONENTS AT THE WRITTEN DIRECTION OF THE RESIDENT ENGINEER/TECHNICIAN AT NO ADDITIONAL COST.
17. CONTRACTOR SHALL NOT REMOVE THE BARRICADES WITHOUT THE APPROVAL BY THE RESIDENT ENGINEER/TECHNICIAN.
18. CONTRACTOR SHALL MAINTAIN FLASHERS, SIGNS AND/OR BARRICADES AS REQUIRED BY THE PLANS, CITY OR COUNTY REGULATIONS OR CONTRACTOR ACTIVITIES. CONTRACTOR SHALL OBTAIN ANY AND ALL REQUIRED LOCAL PERMITS UNLESS SPECIFIED OTHERWISE.
19. THE CONTRACTOR SHALL UTILIZE WATER AND/OR CHEMICALS APPROVED BY THE RESIDENT ENGINEER/TECHNICIAN AS NECESSARY TO CONTROL DUST.
20. UNLESS SPECIFIED OTHERWISE, COST FOR THE ABOVE IS TO BE CONSIDERED INCIDENTAL TO THE PROJECT. SEPARATE PAYMENT SHALL NOT BE MADE.

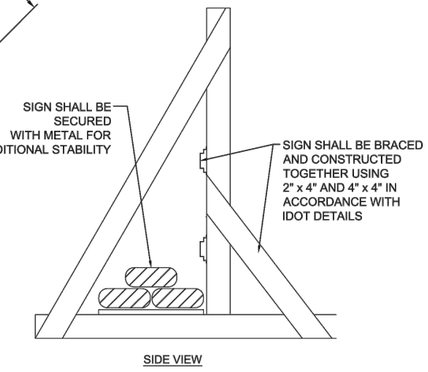
SIGNAGE NOTES

1. ALL CONSTRUCTION SIGNS AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES INCLUDING THE ILLINOIS SUPPLEMENT (LATEST EDITION) AND THE FAA ADVISORY CIRCULARS (LATEST EDITION) UNLESS NOTED OTHERWISE. THE FAA OR MORE STRINGENT SPECIFICATIONS SHALL GOVERN.
2. UNLESS OTHERWISE SPECIFIED, CONSTRUCTION SIGNS SHALL BE MOUNTED ON PORTABLE OR NON-PORTABLE SUPPORTS. A PORTABLE SUPPORT IS DEFINED AS A TYPICAL SIGN STANDARD AS SHOWN ON THIS SHEET, OR A SMALL LIGHT WEIGHT TRAILER. A NON-PORTABLE SUPPORT IS DEFINED AS DRIVEN METAL OR WOOD POST. ALL SIGNS, REGARDLESS OF THE TYPE OF SUPPORTS USED, SHALL BE MOUNTED SUCH THAT THE MESSAGE ON THE SIGN IS LEVEL IN THE HORIZONTAL PLANE AFTER PLACEMENT. THE COST OF CONSTRUCTION WARNING LIGHTS SHALL BE INCLUDED IN THE COST OF THE CONSTRUCTION SIGNS.
3. CONSTRUCTION RED WARNING LIGHT: THESE ARE PORTABLE, LENS DIRECTED, ENCLOSED LIGHTS. THE COLOR OF THE LIGHT EMITTED SHALL BE RED. THEY ARE TO BE USED IN A LOW INTENSITY FLASHING MODE (TYPE A).
4. THE LIGHTING SHALL BE MAINTAINED IN OPERATION DURING THE HOURS OF DARKNESS BETWEEN 1/2 HOUR AFTER SUNSET AND 1/2 HOUR BEFORE SUNRISE AND WHEN CONDITIONS EXIST WHICH TEND TO OBSCURE VISION.
5. COST FOR PROVIDING, PLACING, MAINTAINING, AND REMOVING SIGNS SHALL BE PAID FOR UNDER ITEM AR150520 MOBILIZATION.

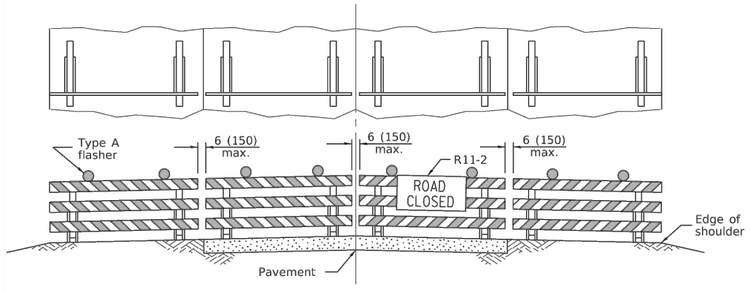
W20-3
48" x 48"
A



FRONT VIEW

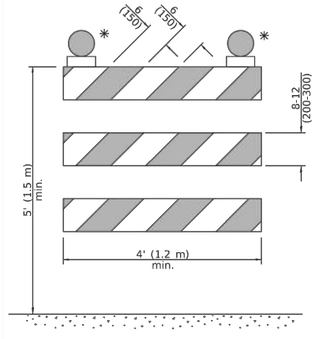


SIDE VIEW



ROAD CLOSED TO ALL TRAFFIC

Reflectorized striping may be omitted on the back side of the barricades. If a Type III barricade with an attached sign panel which meets NCHRP 350 is not available, the sign may be mounted on an NCHRP 350 temporary sign support directly in front of the barricade.



TYPE III BARRICADE

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METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

CONSTRUCTION SAFETY PLAN (2 OF 2)

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. 9 of 61

GENERAL NOTES

A. ALL UTILITIES NOT SPECIFIED TO BE REMOVED SHALL BE PROTECTED.
B. SEE LIGHTING PLANS FOR REMOVAL OF EXISTING LIGHT POLES.

KEYED NOTES

1. REMOVE EXISTING PLANTER.
2. REMOVE EXISTING SIGN.
3. REMOVE EXISTING DRAINAGE STRUCTURE.
4. REMOVE EXISTING STORM SEWER.
5. REMOVE EXISTING END SECTION.

LEGEND

- REMOVE EXISTING PC CONCRETE PAVEMENT SECTION.
- REMOVE EXISTING ASPHALT PAVEMENT.
- CLEARING AND GRUBBING.
- —XXX— REMOVE EXISTING CONCRETE CURB & GUTTER TO NEAREST JOINT.
- SAWCUT PAVEMENT
- X REMOVE EXISTING TREE.

100' 50' 0 100'

SCALE: 1" = 100'

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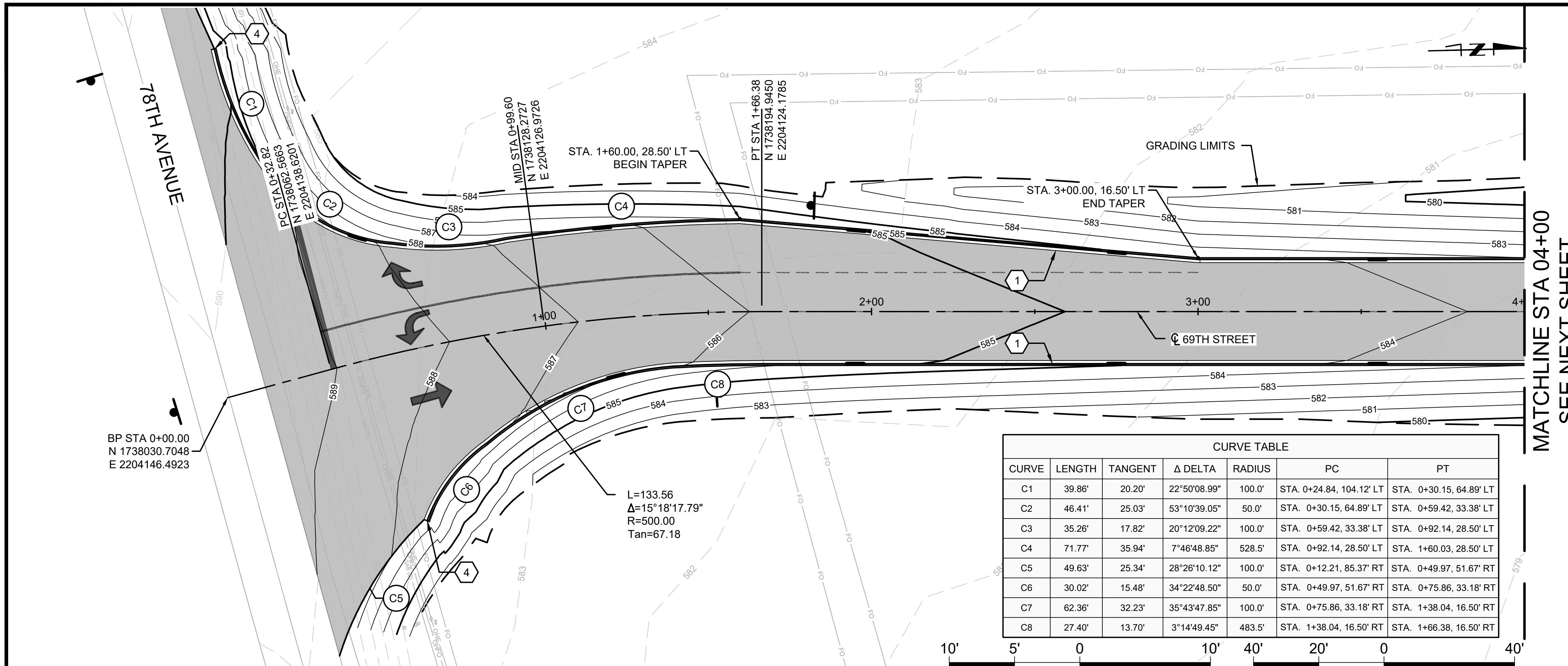
METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)

REALIGN THE GENERAL AVIATION ENTRANCE ROAD

EXISTING CONDITIONS & PROPOSED REMOVALS

CLIENT APPROVAL	CLIENT APPROVAL

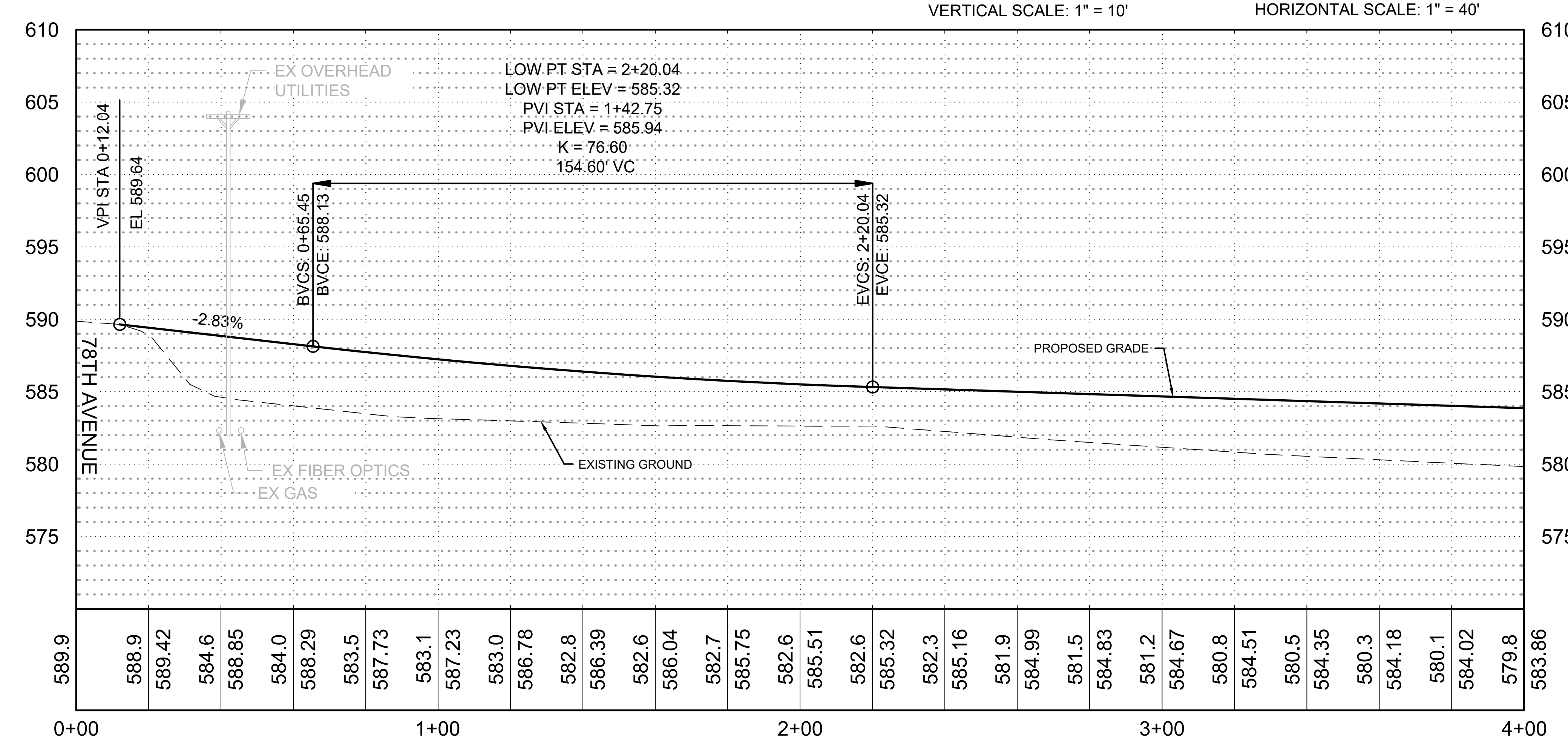
PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260



CURVE TABLE						
CURVE	LENGTH	TANGENT	Δ DELTA	RADIUS	PC	PT
C1	39.86'	20.20'	22°50'08.99"	100.0'	STA. 0+24.84, 104.12' LT	STA. 0+30.15, 64.89' LT
C2	46.41'	25.03'	53°10'39.05"	50.0'	STA. 0+30.15, 64.89' LT	STA. 0+59.42, 33.38' LT
C3	35.26'	17.82'	20°12'09.22"	100.0'	STA. 0+59.42, 33.38' LT	STA. 0+92.14, 28.50' LT
C4	71.77'	35.94'	7°46'48.85"	528.5'	STA. 0+92.14, 28.50' LT	STA. 1+60.03, 28.50' LT
C5	49.63'	25.34'	28°26'10.12"	100.0'	STA. 0+12.21, 85.37' RT	STA. 0+49.97, 51.67' RT
C6	30.02'	15.48'	34°22'48.50"	50.0'	STA. 0+49.97, 51.67' RT	STA. 0+75.86, 33.18' RT
C7	62.36'	32.23'	35°43'47.85"	100.0'	STA. 0+75.86, 33.18' RT	STA. 1+38.04, 16.50' RT
C8	27.40'	13.70'	3°14'49.45"	483.5'	STA. 1+38.04, 16.50' RT	STA. 1+66.38, 16.50' RT

VERTICAL SCALE: 1" = 10'

HORIZONTAL SCALE: 1" = 40'



GENERAL NOTES

A. ALL DIMENSIONS AND RADII ARE TO THE BACK OF CURBS, UNLESS OTHERWISE NOTED.
B. SEE STANDARD DETAIL B.L.R. 10-8 FOR PCC PAVEMENT AND JOINTS DETAIL.

KEYED NOTES

1. INTEGRAL CURB & GUTTER. INTEGRAL CURB & GUTTER TO BE INCIDENTAL TO PAVEMENT PER ITEM 501.
2. PROPOSED PAVEMENT LIMITS. SAWCUT EXISTING WITH NEAT VERTICAL LINE AND MATCH EXISTING ELEVATION.
3. TRANSITION TO EXISTING CURB AND GUTTER.
4. NO EXISTING CURB AND GUTTER. TRANSITION TO EXISTING GROUND.
5. B6.12 CURB & GUTTER.

LEGEND

PROPOSED PCC PAVEMENT
PROPOSED HMA PAVEMENT
DIRECTION OF TRAFFIC
GRADING LIMITS

CONSULTANTS

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DRAWN BY: AJ
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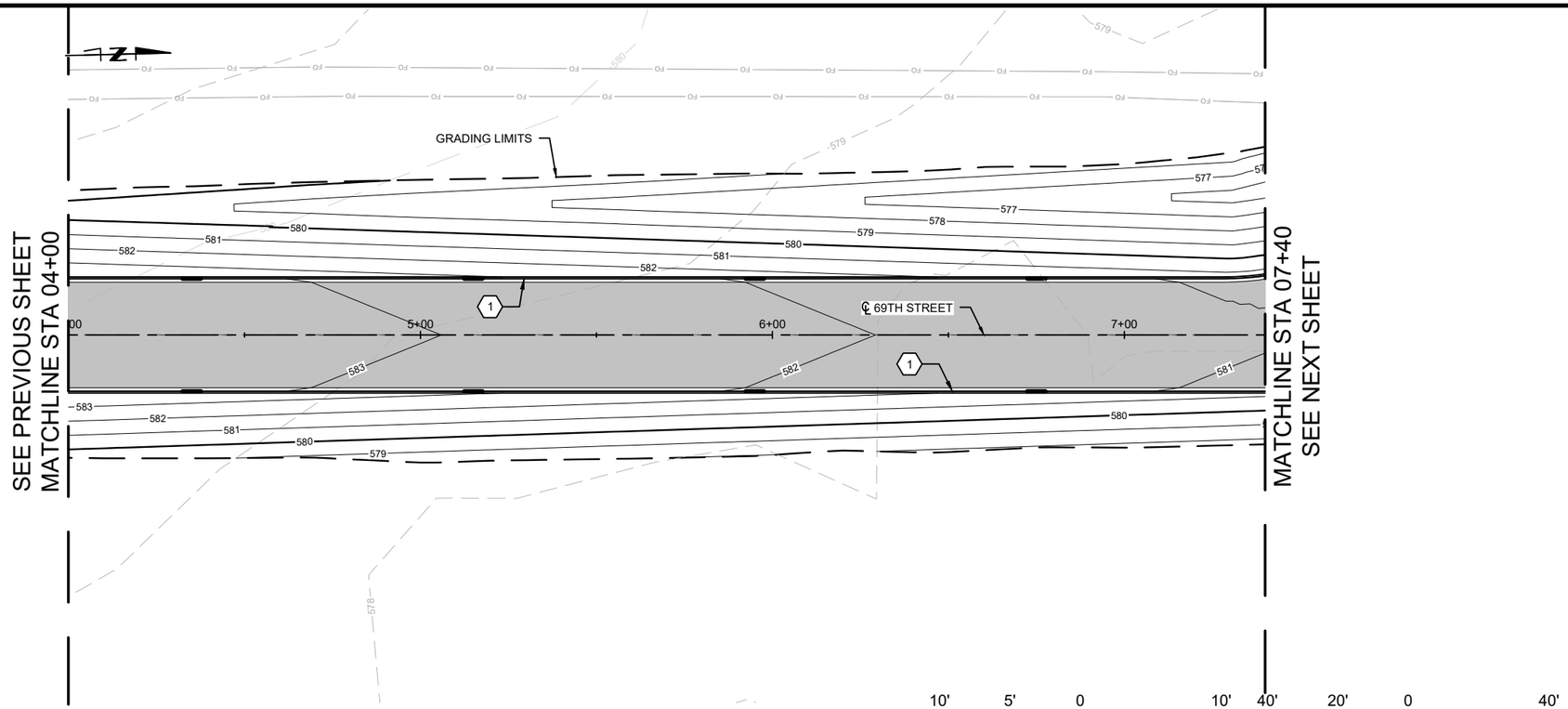
METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)

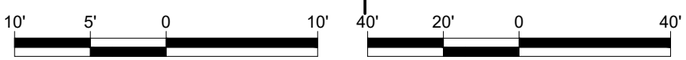
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

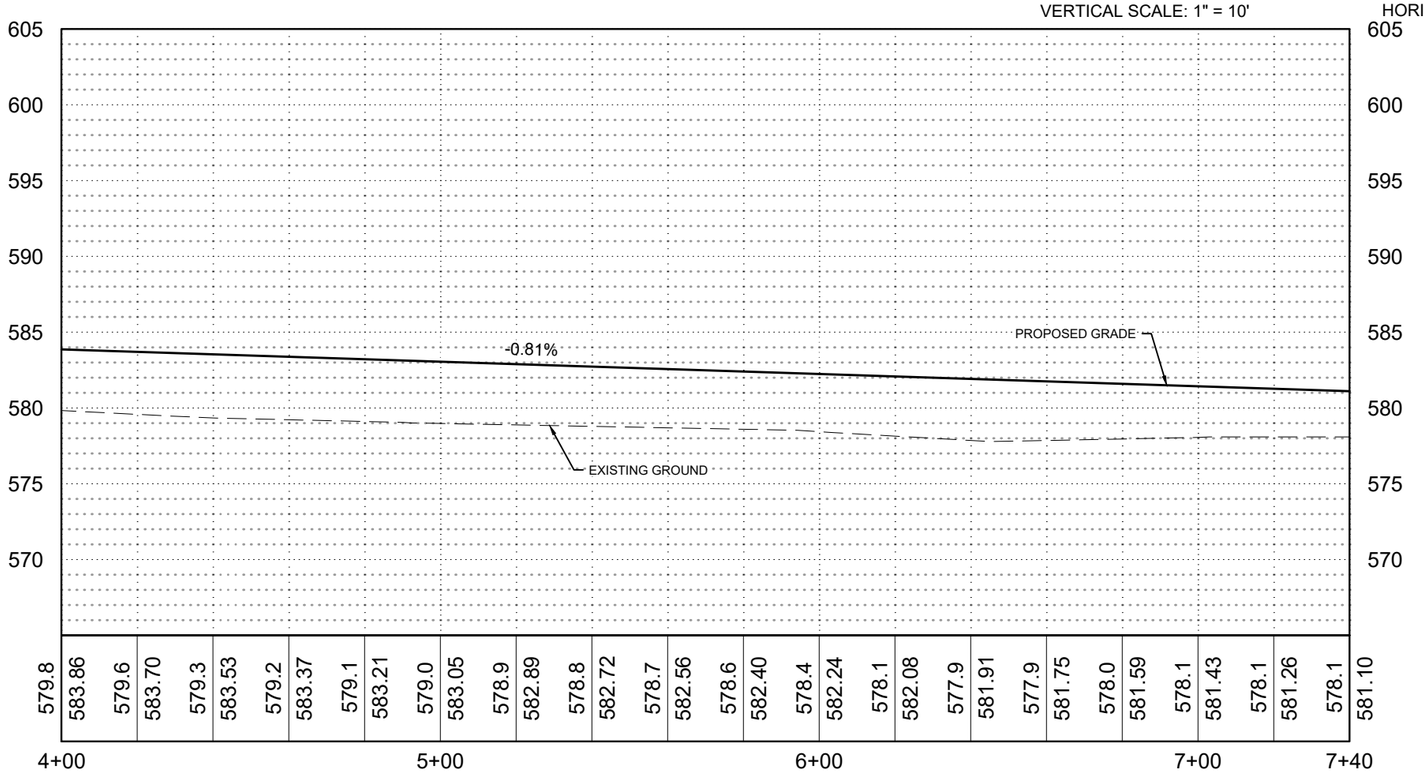
PROPOSED PLAN & PROFILE (1 of 4)

CLIENT APPROVAL | CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260







GENERAL NOTES

A. ALL DIMENSIONS AND RADII ARE TO THE BACK OF CURBS, UNLESS OTHERWISE NOTED.
B. SEE STANDARD DETAIL B.L.R. 10-8 FOR PCC PAVEMENT AND JOINTS DETAIL.

KEYED NOTES

1. INTEGRAL CURB & GUTTER. INTEGRAL CURB & GUTTER TO BE INCIDENTAL TO PAVEMENT PER ITEM 501.
2. PROPOSED PAVEMENT LIMITS. SAWCUT EXISTING WITH NEAT VERTICAL LINE AND MATCH EXISTING ELEVATION.
3. TRANSITION TO EXISTING CURB AND GUTTER.
4. NO EXISTING CURB AND GUTTER. TRANSITION TO EXISTING GROUND.
5. B6.12 CURB & GUTTER.

LEGEND

- PROPOSED PCC PAVEMENT
- PROPOSED HMA PAVEMENT
- DIRECTION OF TRAFFIC
- GRADING LIMITS

CONSULTANTS
HDR
4620 E 53RD STREET
DAVENPORT, IA 52807-3620
(563) 293-7684

PREPARED FOR
QUAD CITIES INTERNATIONAL AIRPORT

NO.	DATE	DESCRIPTION	BY
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		CONTRACTOR:	
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		INSPECTOR'S ACCEPTANCE BY:	DATE:
		FIELD VERIFICATION BY:	DATE:
		DRAWINGS CORRECTED BY:	DATE:

811 CALL J.U.L.I.E BEFORE YOU DIG

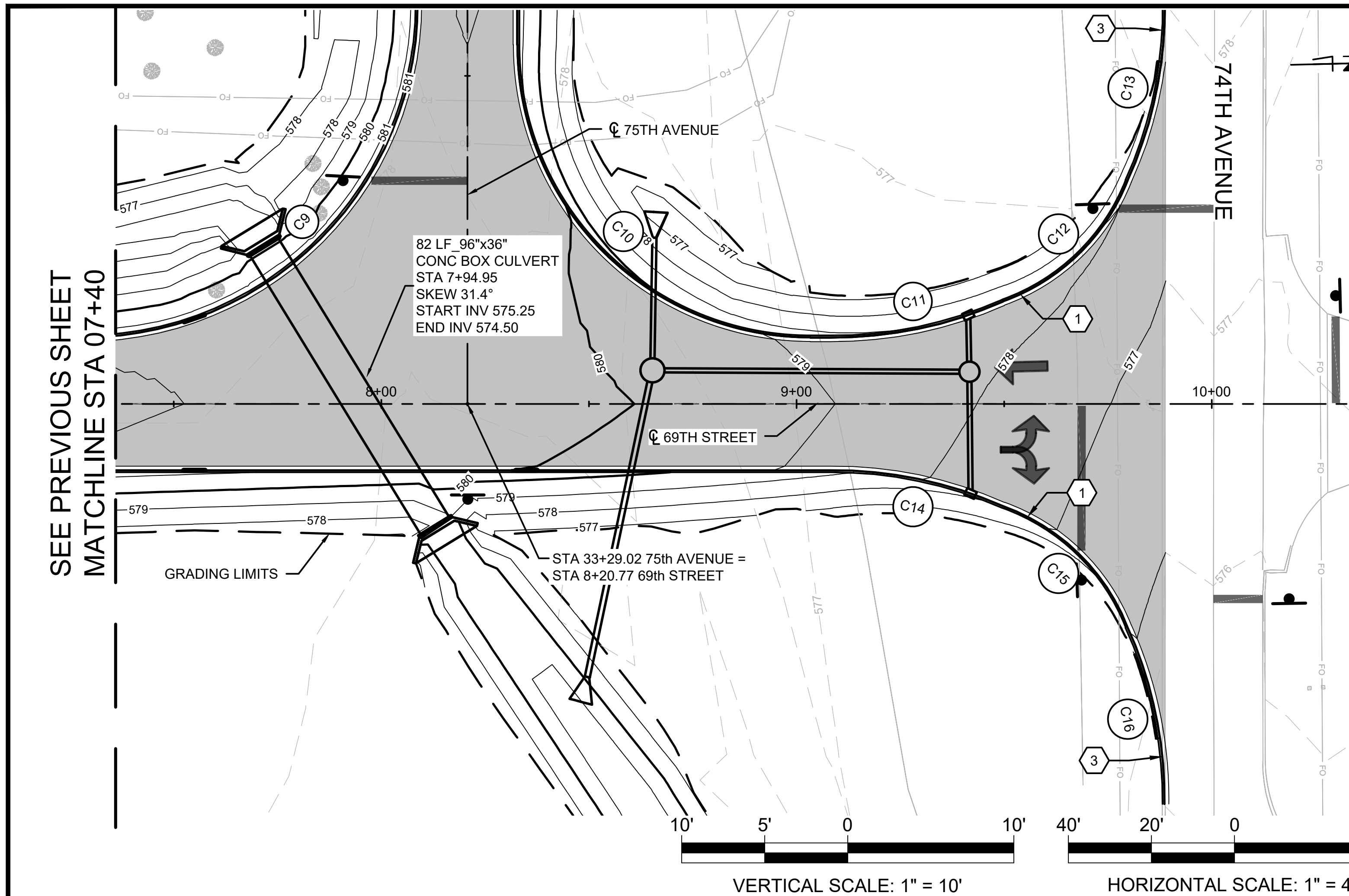
DESIGNED BY: MM
DRAWN BY: AJ
CHECKED BY: SM
DATE:

METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

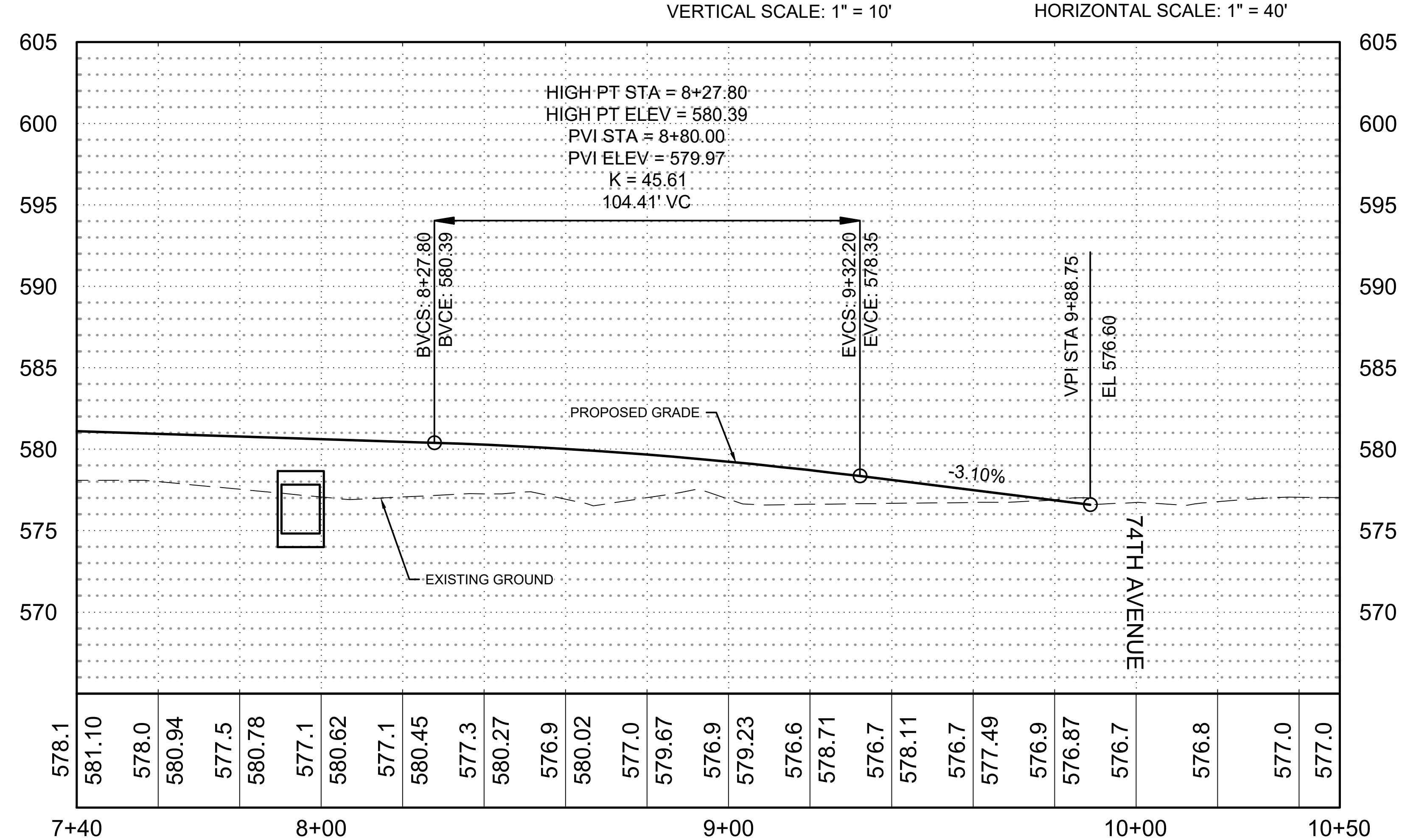
PROPOSED PLAN & PROFILE (2 of 4)

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. **12 of 61**



CURVE TABLE						
CURVE	LENGTH	TANGENT	Δ DELTA	RADIUS	PC	PT
C9	125.66'	80.00'	90°00'00.00"	80.0'	STA. 7+28.27, 16.50' LT	STA. 8+08.27, 96.50' LT
C10	109.96'	70.00'	90°00'00.00"	70.0'	STA. 8+33.27, 86.50' LT	STA. 9+03.27, 16.50' LT
C11	42.62'	21.64'	24°24'54.62"	100.0'	STA. 9+08.13, 16.50' LT	STA. 9+49.53, 25.11' LT
C12	42.65'	22.72'	48°52'42.32"	50.0'	STA. 9+49.53, 25.11' LT	STA. 9+79.23, 53.92' LT
C13	44.02'	22.37'	25°13'11.51"	100.0'	STA. 9+79.23, 53.92' LT	STA. 9+88.20, 96.65' LT
C14	42.62'	21.64'	24°24'54.62"	100.0'	STA. 9+08.13, 16.50' RT	STA. 9+49.53, 25.11' RT
C15	42.65'	22.72'	48°52'42.32"	50.0'	STA. 9+49.53, 25.11' RT	STA. 9+79.23, 53.92' RT
C16	43.74'	22.22'	25°03'25.78"	100.0'	STA. 9+79.23, 53.92' RT	STA. 9+88.13, 96.39' RT



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LEGEND

- PROPOSED PCC PAVEMENT
- PROPOSED HMA PAVEMENT
- DIRECTION OF TRAFFIC
- GRADING LIMITS

CONSULTANTS

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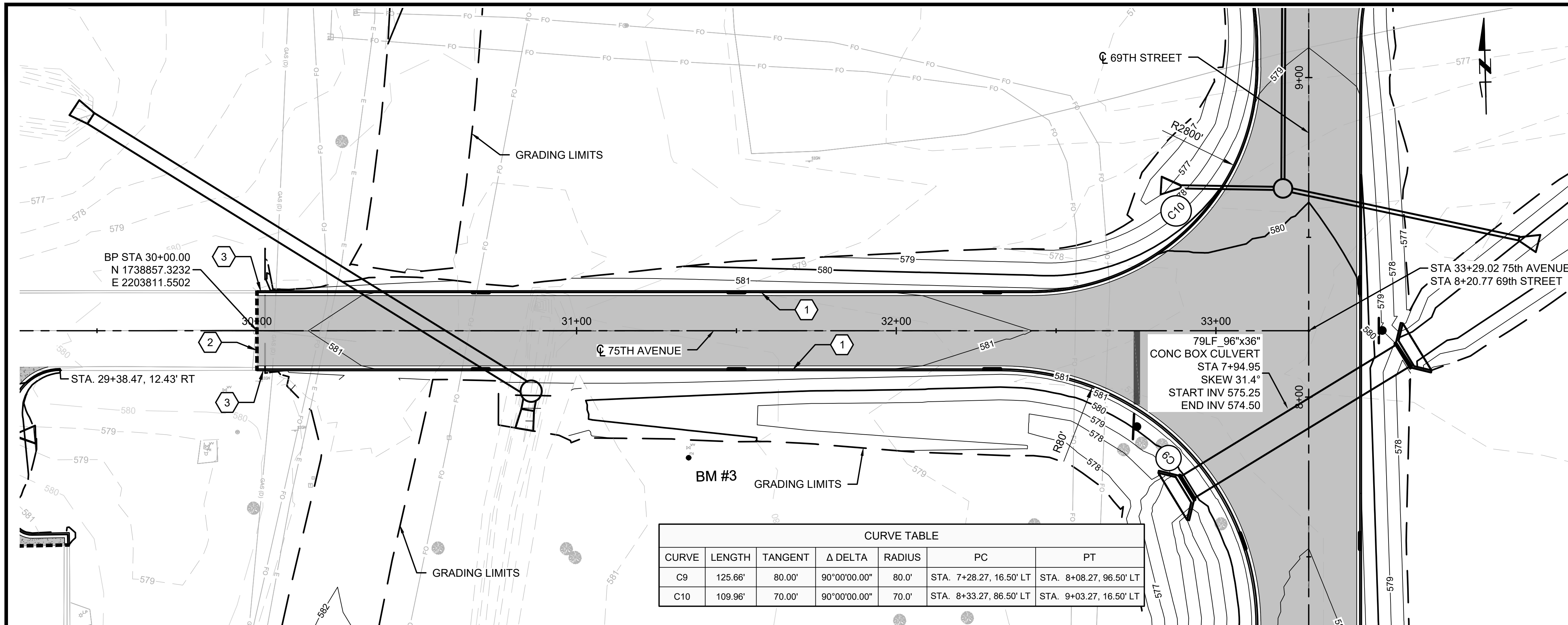
METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)

REALIGN THE GENERAL AVIATION ENTRANCE ROAD

PROPOSED PLAN & PROFILE (3 of 4)

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260



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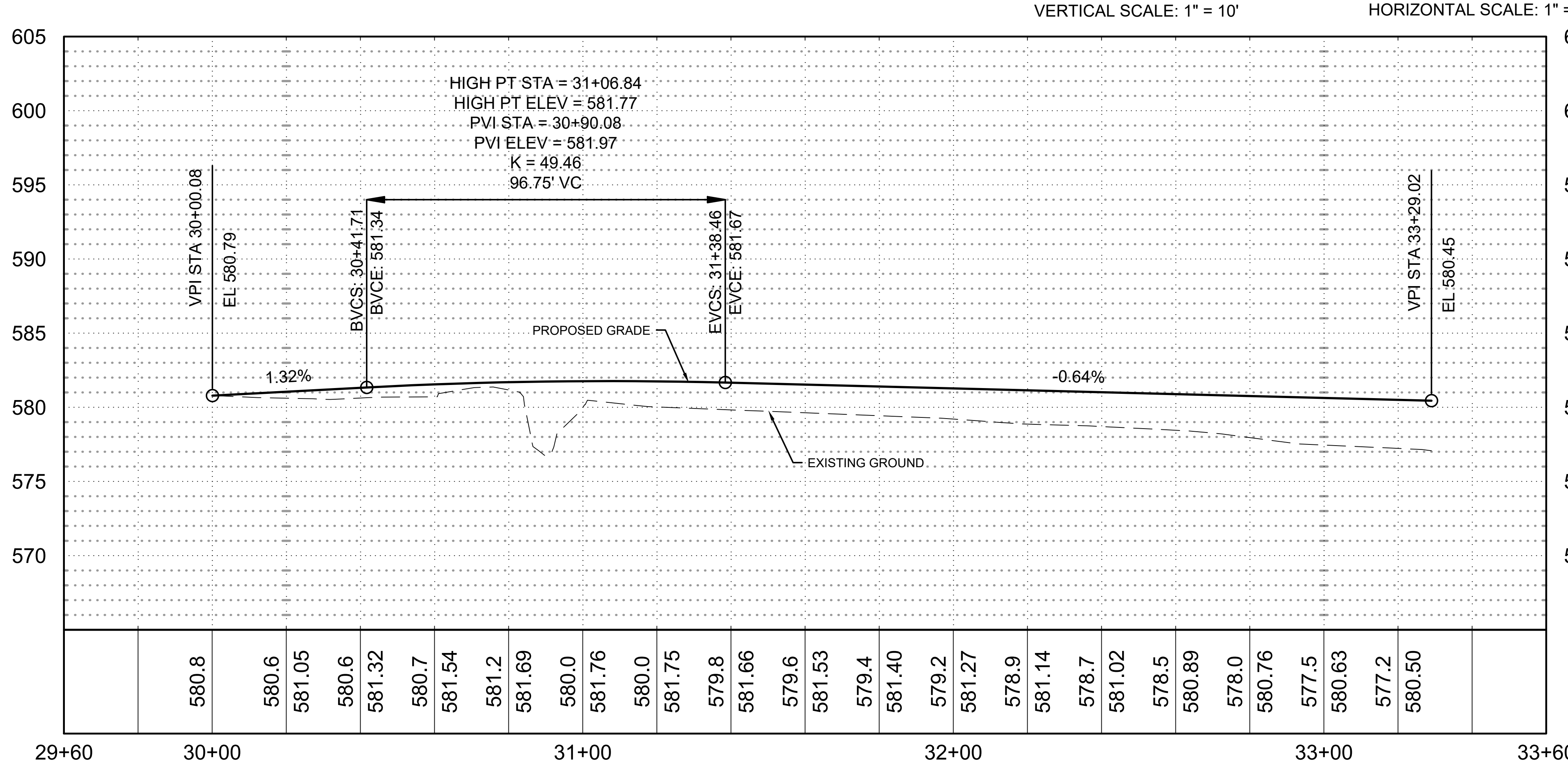
VERTICAL SCALE: 1" = 10'

HORIZONTAL SCALE: 1" = 40'



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LEGEND

- PROPOSED PCC PAVEMENT
- PROPOSED HMA PAVEMENT
- DIRECTION OF TRAFFIC
- GRADING LIMITS

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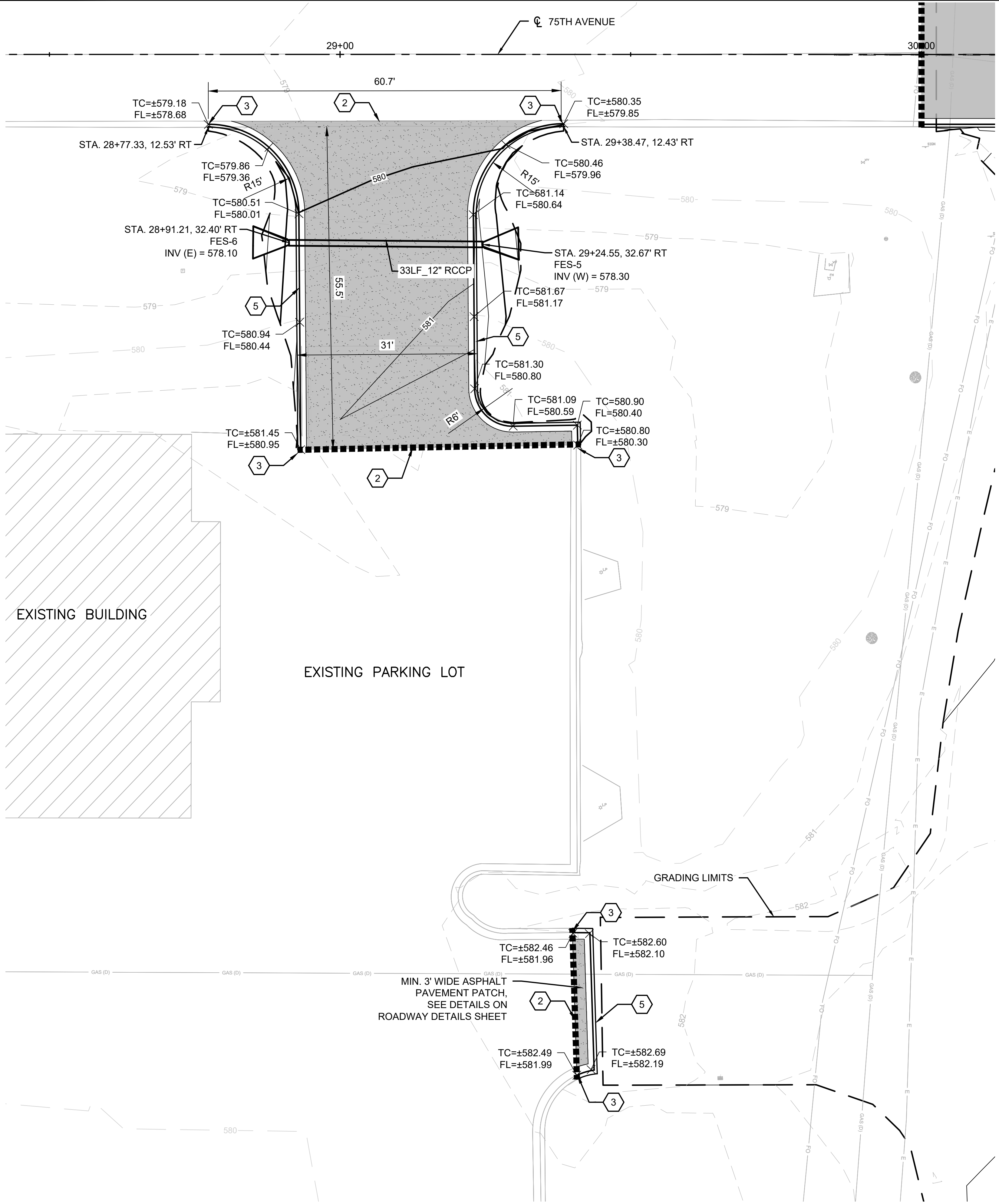
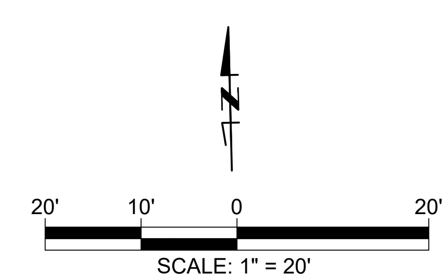
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

PROPOSED PLAN & PROFILE (4 of 4)

CLIENT APPROVAL | CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. 14 of 61





GENERAL NOTES

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LEGEND

- PROPOSED PCC PAVEMENT
- PROPOSED HMA PAVEMENT
- DIRECTION OF TRAFFIC
- GRADING LIMITS

CONSULTANTS

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4620 E 53RD STREET
DAVENPORT, IA 52807-3620
(563) 293-7684

PREPARED FOR

QUAD CITIES INTERNATIONAL AIRPORT

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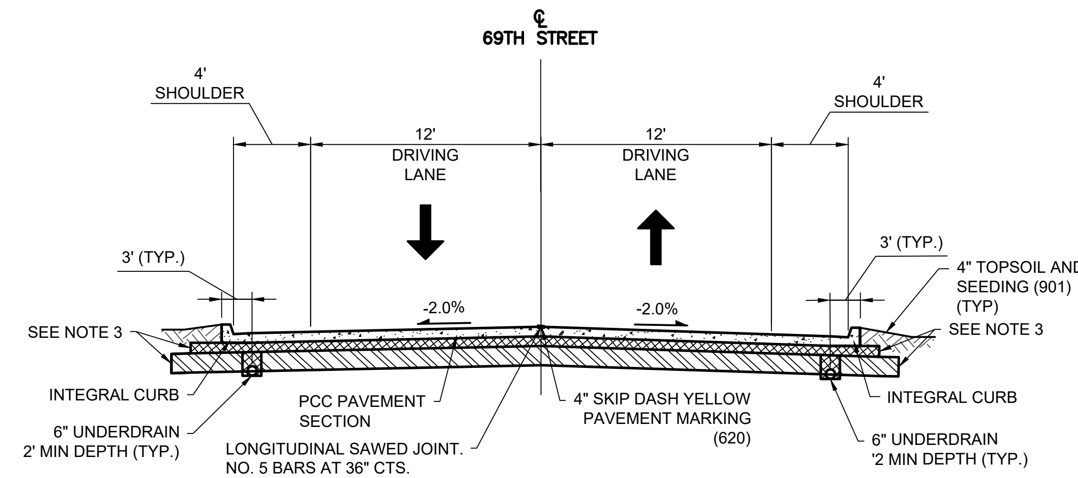
METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)

REALIGN THE GENERAL AVIATION ENTRANCE ROAD

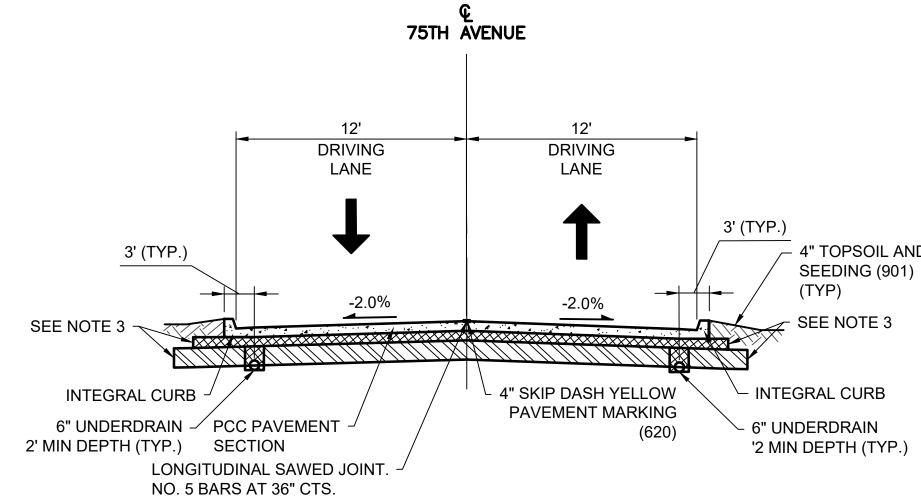
PROPOSED PARKING ENTRANCE

CLIENT APPROVAL	CLIENT APPROVAL

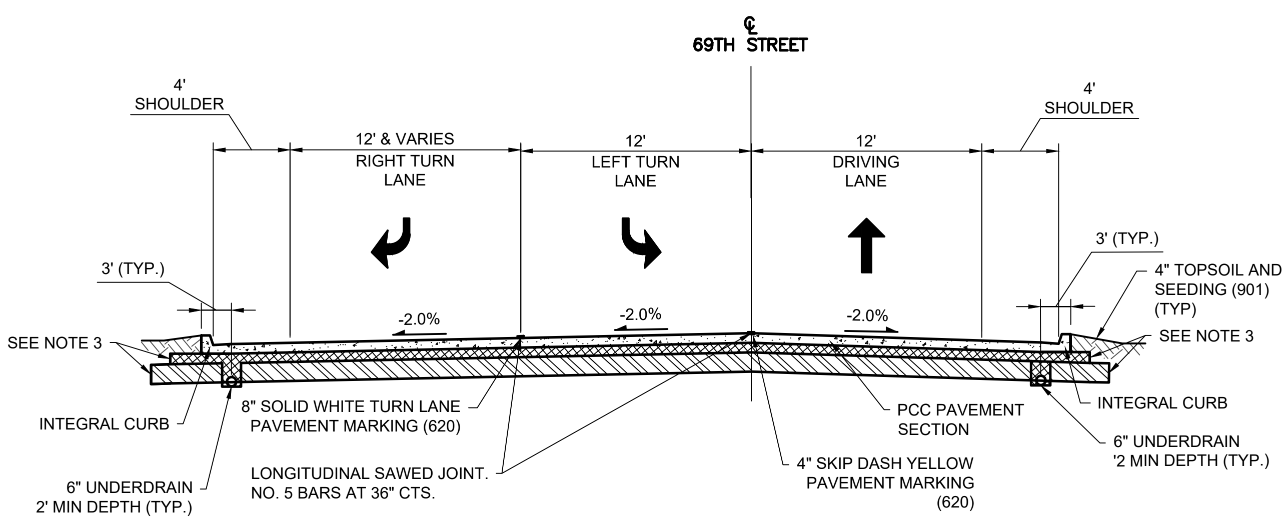
PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO.



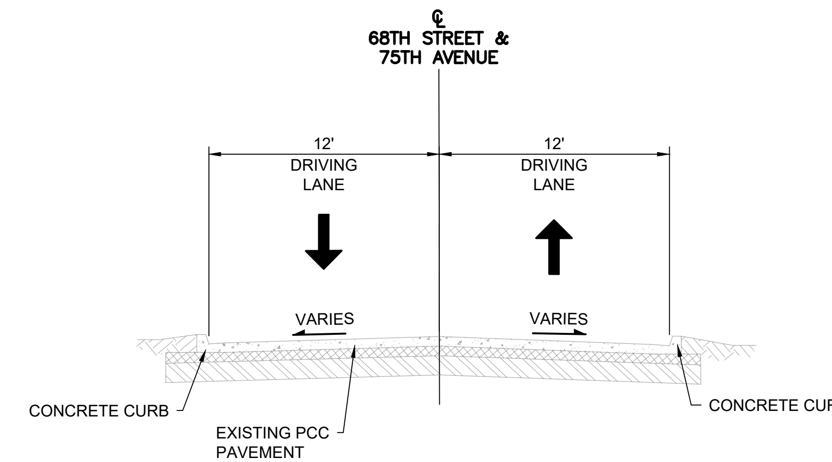
PROPOSED TYPICAL SECTION - 69TH STREET
STA 3+00.00 TO 7+28.27 & STA



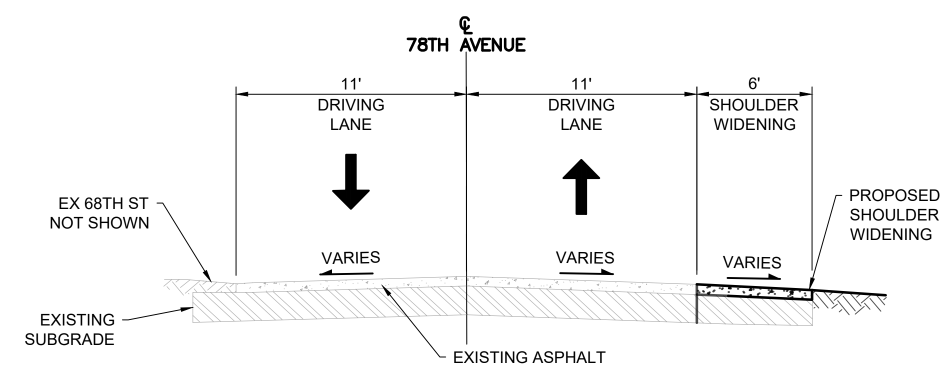
PROPOSED TYPICAL SECTION - 75TH AVENUE
STA 30+00 TO 32+32.52



PROPOSED TYPICAL SECTION - 69TH STREET & 78TH AVENUE INTERSECTION
STA 0+92.19 TO 3+00.00



EXISTING TYPICAL SECTION - 68TH STREET & 75TH AVENUE



PROP TYPICAL SECTION ADD. ALT. 1 - 78TH AVENUE

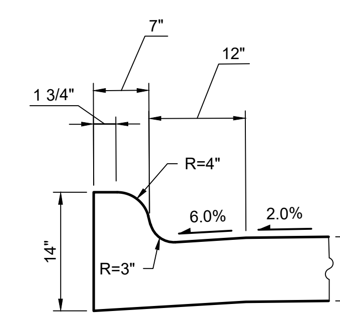
NOTES:

1. INTERSECTIONS BETWEEN 69TH ST AND 78TH, 75TH, AND 74TH ARE NOT REFLECTED IN THE TYPICAL SECTIONS.
2. THE EXISTING PAVEMENT SECTION ON 68TH ST. IS 8" OF PCC OVER AGGREGATE BASE COURSE.
3. BASE COURSE TO EXTEND 12" BEYOND THE BACK OF CURB. SUBGRADE TO EXTEND 12" BEYOND BASE COURSE. APPLIES TO ALL PROPOSED PCC PAVEMENT SECTIONS.
4. SEE DRAINAGE DETAILS FOR UNDERDRAIN INFO.
5. 6" BARRIER INTEGRAL CURB IS INCLUDED IN THE PCC PAVEMENT ITEM

ROADWAY STRUCTURAL TRAFFIC DESIGN INFORMATION

	MINIMUM ADT	ACTUAL ADT	ACTUAL % OF TOTAL ADT	% OF ADT IN DESIGN LANE
PV =	NO MIN	484	88%	P = 50%
SU =	NO MIN	39	7%	S = 50%
MU =	NO MIN	28	5%	M = 50%
STRUCTURAL DESIGN ADT =		550		

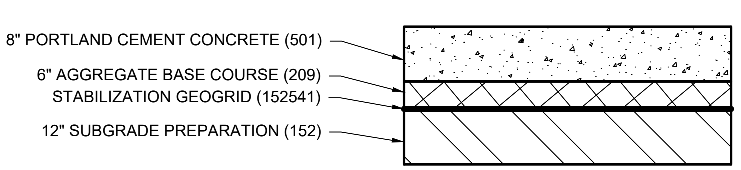
YEAR: 2035
ROAD CLASS: III
SUBGRADE SUPPORT RATING (SSR): POOR
TRAFFIC FACTOR: 0.75
ACTUAL TF: 0.75
MIN TF: 0.5



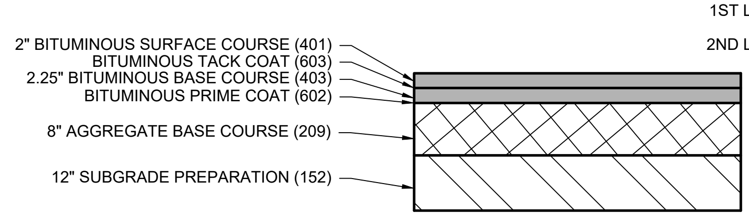
PCC INTEGRAL CURB
NOT TO SCALE

HMA MIXTURES REQUIREMENT TABLE

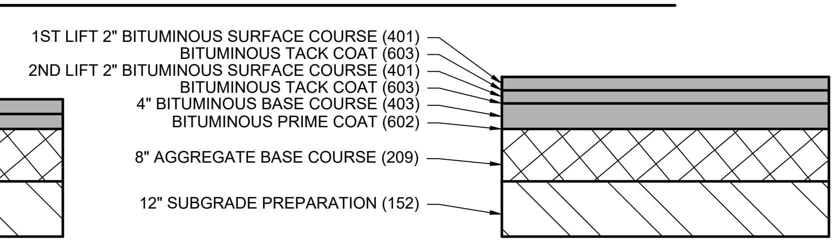
ITEM	NDES	PG BINDER	AGGREGATE QUALITY	MAX RAP	DENSITY ACCEPTANCE
401 - HMA SURFACE METHOD I	N50 @ 3.0%	PG 64-22	B	20%	NUCLEAR GAUGUE
403 - HMA BASE CSE METHOD I	N50 @ 3.0%	PG 64-22	B	20%	NUCLEAR GAUGUE



PCC PAVEMENT SECTION
NOT TO SCALE



BITUMINOUS PAVEMENT SECTION
PROPOSED PARKING ENTRANCE
NOT TO SCALE



ADD. ALT. 1 - PROPOSED SHOULDER WIDENING - 78TH AVENUE
NOT TO SCALE

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CONSULTANTS

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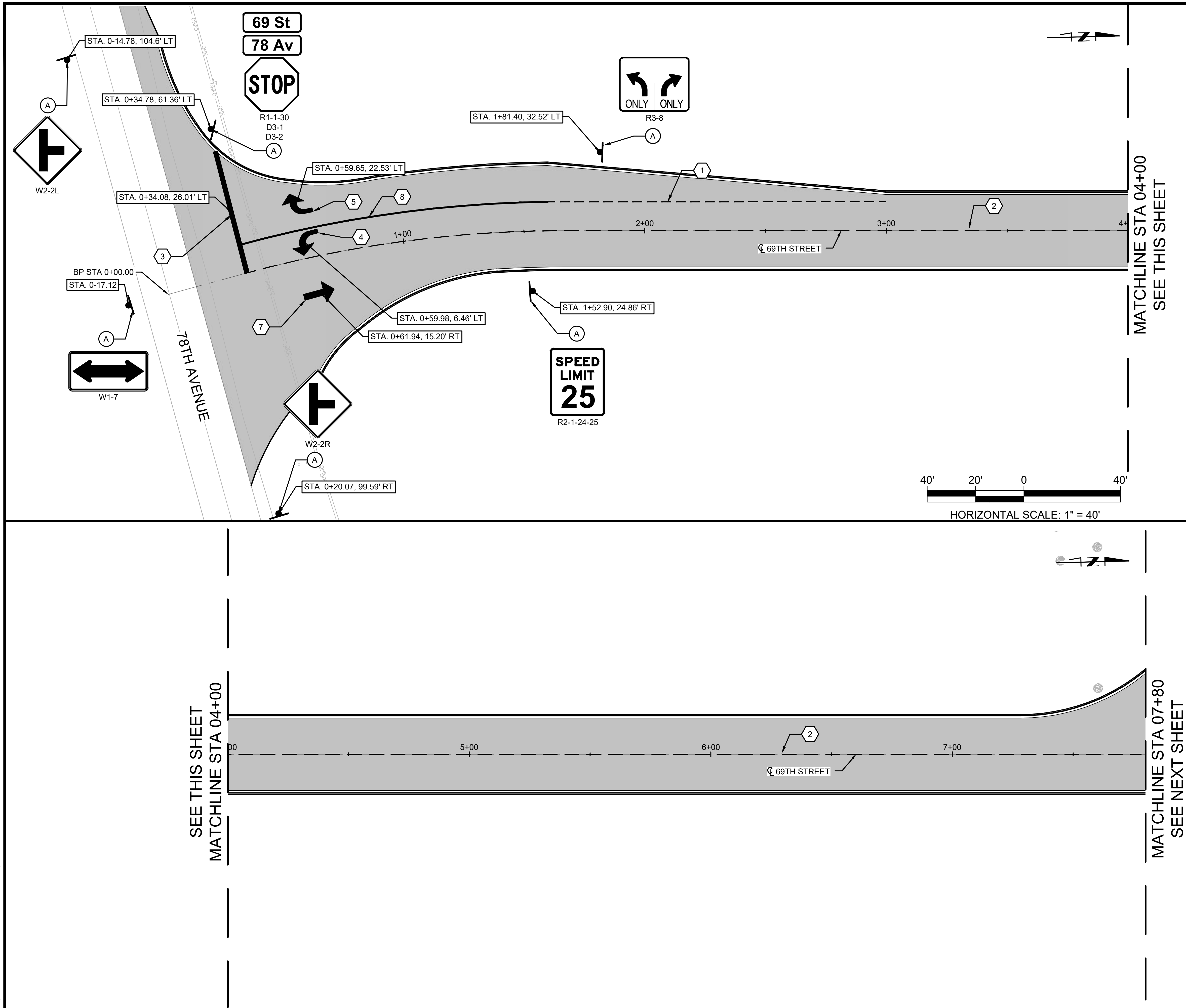
METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

TYPICAL SECTIONS

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. 16 of 61



GENERAL NOTES

1. WATERBORNE TYPE III PAINT TO BE USED ON ALL PROPOSED PAVEMENT MARKINGS IN ACCORDANCE WITH ITEM 620 "PAVEMENT MARKING" IN THE ILLINOIS STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORTS, CURRENT EDITION.

KEYED NOTES

1. 8" WHITE 2' DASH 4' SKIP PAVEMENT MARKING.
2. 4" SKIP DASH YELLOW PAVEMENT MARKING.
3. 24" SOLID WHITE STOP BAR.
4. LEFT TURN ARROW PAVEMENT MARKING.
5. RIGHT TURN ARROW PAVEMENT MARKING.
6. LEFT/RIGHT TURN ARROW PAVEMENT MARKING.
7. THRU LANE ARROW PAVEMENT MARKING.
8. 8" WHITE SOLID TURN LANE PAVEMENT MARKING.

SIGN KEYED NOTES

A. PROPOSED SIGN.
B. EXISTING SIGN TO BE REMOVED.

LEGEND

EXISTING SIGN POST

PROPOSED SIGN POST

CALL J.U.L.I.E BEFORE YOU DIG

CONSULTANTS

HDR

4620 E 53RD STREET
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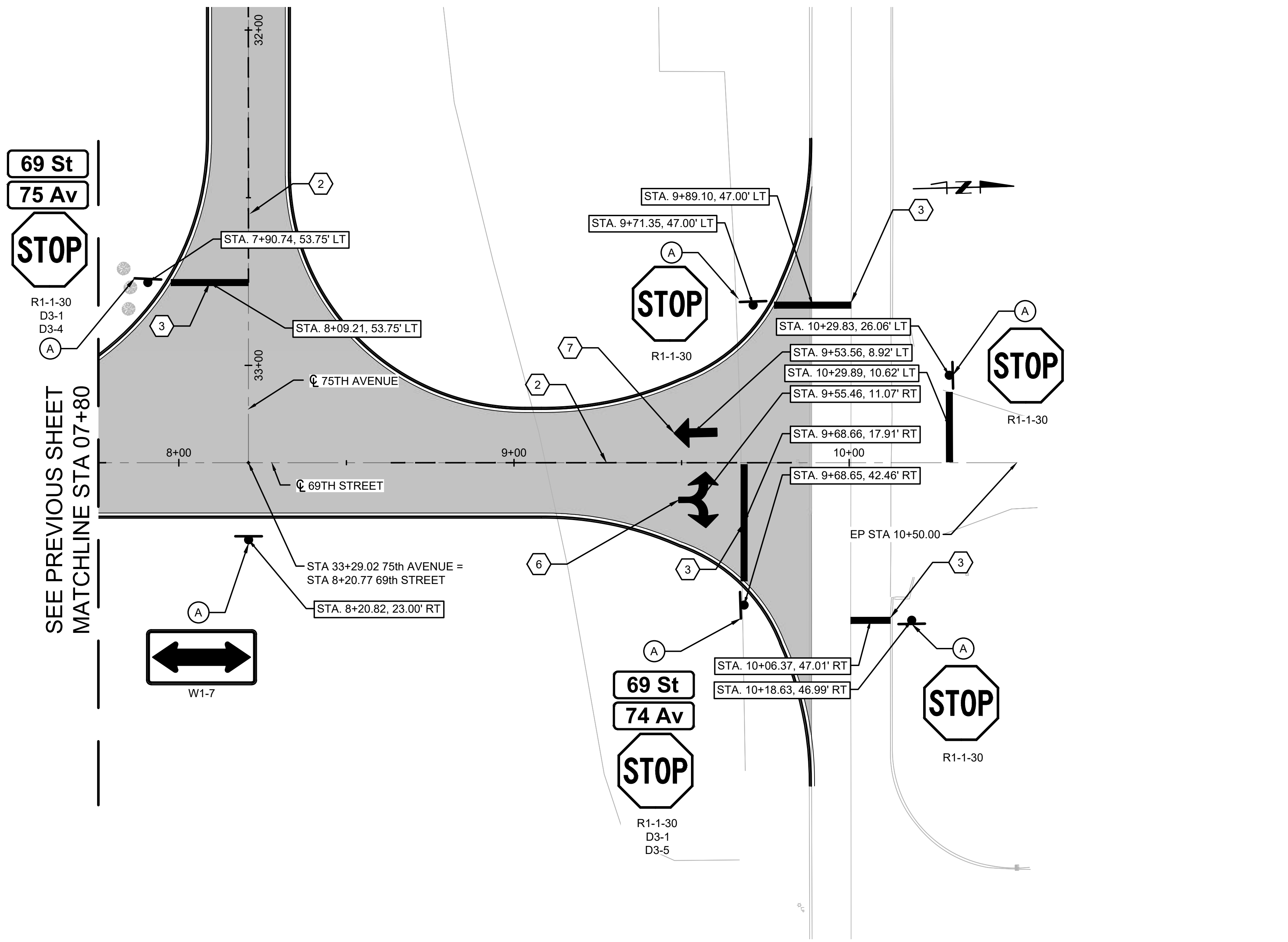
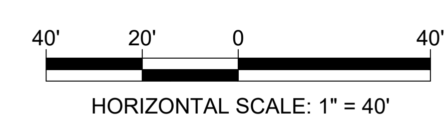
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

PAVEMENT MARKING & SIGNING PLAN (1 OF 2)

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260





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LEGEND

EXISTING SIGN POST
PROPOSED SIGN POST

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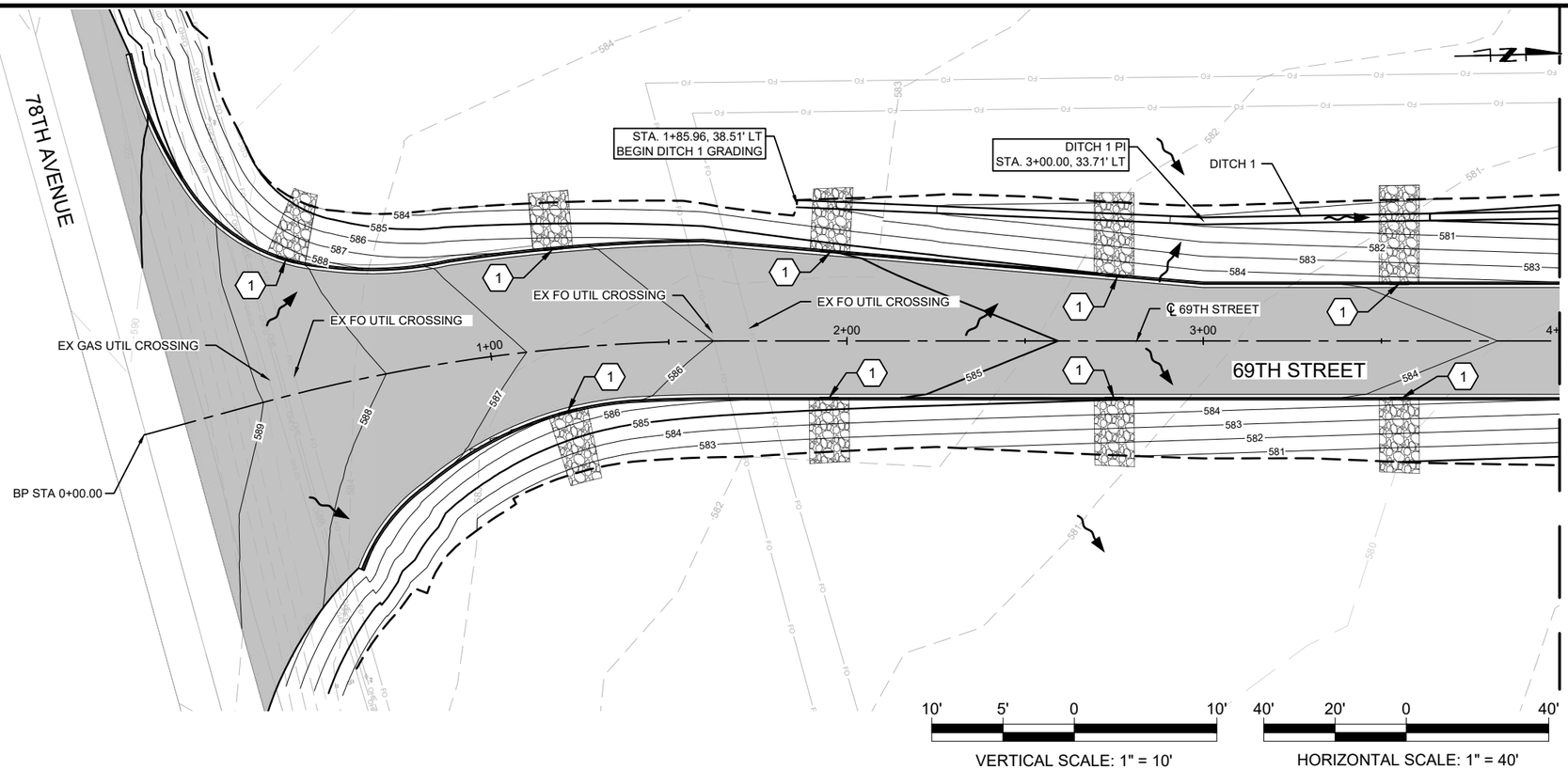
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

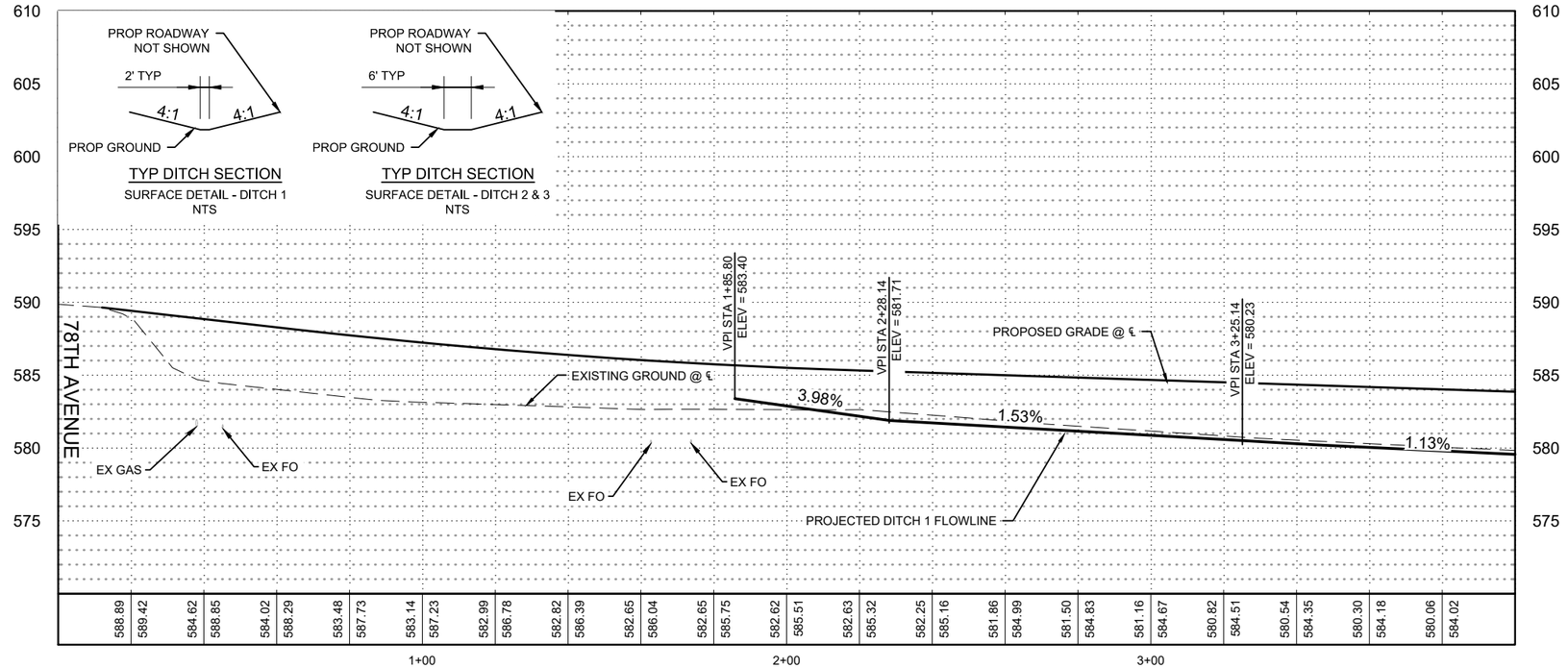
PAVEMENT MARKING & SIGNING PLAN (2 OF 2)

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. 18 of 61

Date: 11 Feb 2025 - 3:52pm User: STOJENSEN Layout: PM01-02
Drawing Name: 12-PAVEMENT MARKING AND SIGNAGE.dwg





GENERAL NOTES

A. ALL DRAINAGE PIPE AND STRUCTURE STATIONS AND OFFSETS ARE BASED OFF PROPOSED CENTERLINES.
B. ALL UNDERGROUND UTILITIES SHOWN IN PLANS AND PROFILES ARE APPROXIMATE LOCATIONS BASED ON AVAILABLE INFORMATION.
C. REFER TO EXISTING CONDITIONS AND PROPOSED REMOVAL PLAN FOR EXISTING STORM DRAIN REMOVALS.
D. SEE SWPPP SHEETS FOR FLEXAMAT DETAILS & OTHER EROSION CONTROL MEASURES.
E. SEE STRUCTURAL SHEETS REGARDING 8'x3' BOX CULVERT (C-1).
F. CATCH BASIN RIM ELEVATIONS ARE TO GUTTER FLOW LINE.
G. SEE DETAILS SHEETS FOR CURB CUT INFORMATION.
H. UNDERDRAINS NOT SHOWN HERE. SEE DRAINAGE UNDERDRAIN PLAN SHEETS.
I. ALL MANHOLES (MH-1, MH-2, & MH-3) TO HAVE CLOSED LID PER IDOT STANDARD DETAIL FRAME & LID TYPE 1 6004001-05.
J. ALL INLETS (CB-1 & CB-2) TO BE INLET TYPE A WITH FRAME & GRATE TYPE 3 PER STANDARD DETAILS 602301-04 & 604006-05.

LEGEND

- INLET
- MANHOLE
- STORM DRAIN
- FLEXAMAT
- GRADING LIMITS
- DITCH GRADE BREAK
- CURB CUT
- XXX PROP CONTOUR
- XXX EXIST CONTOUR
- FLOW ARROW

KEYED NOTES

1. PROPOSED CURB CUT

CONSULTANTS
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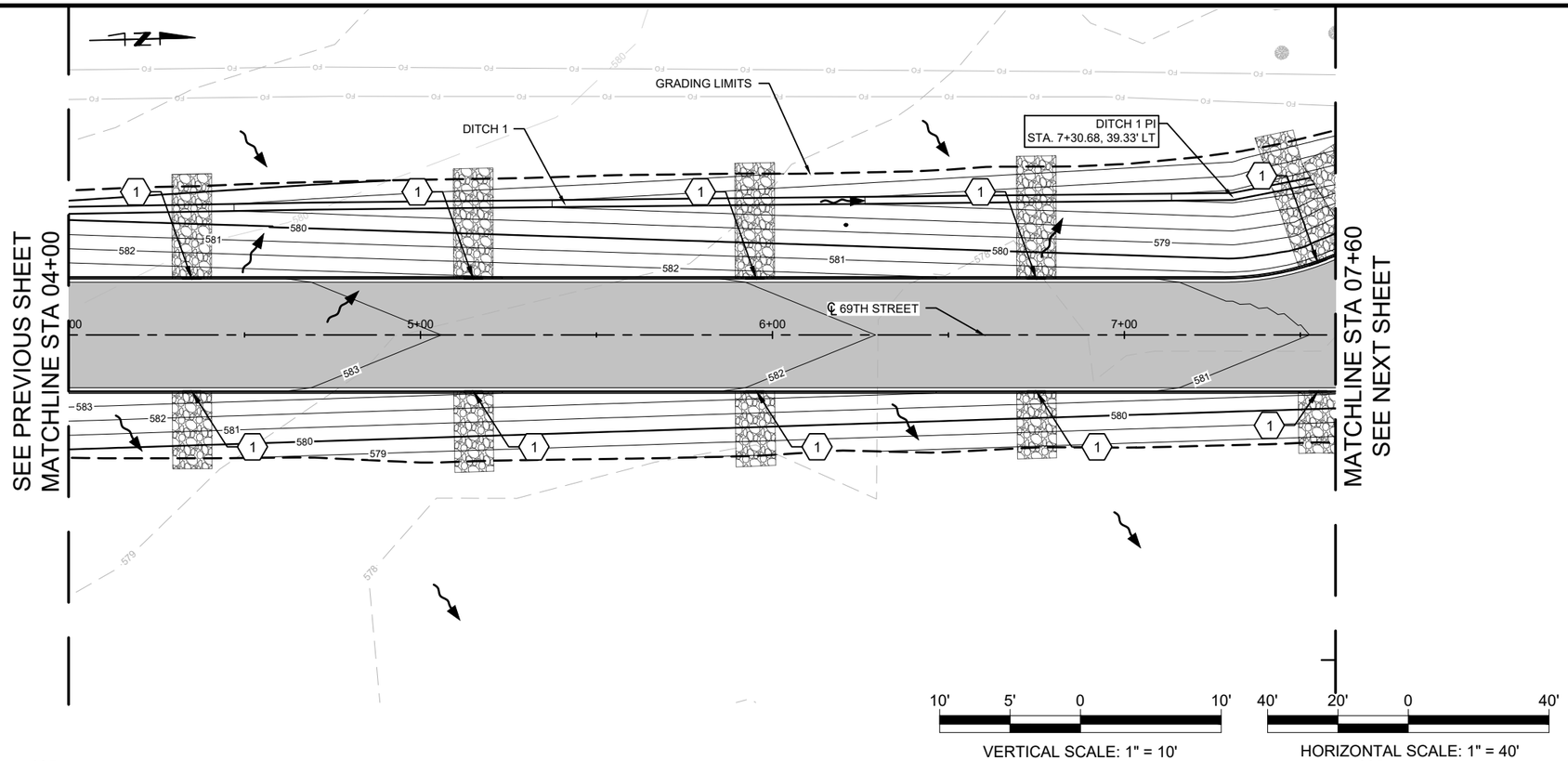
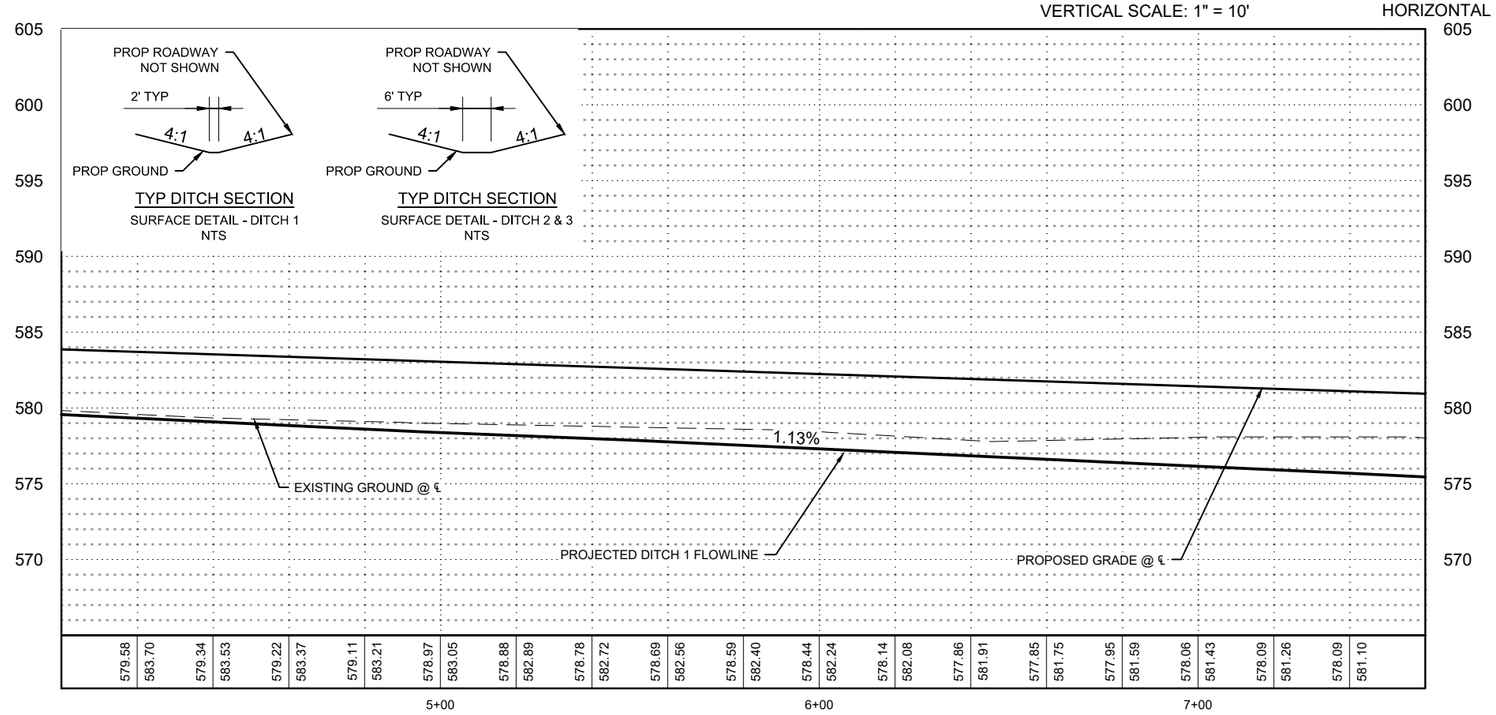
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

DRAINAGE PLAN (1 OF 4)

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. **19 of 61**





GENERAL NOTES

A. ALL DRAINAGE PIPE AND STRUCTURE STATIONS AND OFFSETS ARE BASED OFF PROPOSED CENTERLINES.
B. ALL UNDERGROUND UTILITIES SHOWN IN PLANS AND PROFILES ARE APPROXIMATE LOCATIONS BASED ON AVAILABLE INFORMATION.
C. REFER TO EXISTING CONDITIONS AND PROPOSED REMOVAL PLAN FOR EXISTING STORM DRAIN REMOVALS.
D. SEE SWPPP SHEETS FOR FLEXAMAT DETAILS & OTHER EROSION CONTROL MEASURES.
E. SEE STRUCTURAL SHEETS REGARDING 8'x3' BOX CULVERT (C-1).
F. CATCH BASIN RIM ELEVATIONS ARE TO GUTTER FLOW LINE.
G. SEE DETAILS SHEETS FOR CURB CUT INFORMATION.
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I. ALL MANHOLES (MH-1, MH-2, & MH-3) TO HAVE CLOSED LID PER IDOT STANDARD DETAIL FRAME & LID TYPE 1 6004001-05.
J. ALL INLETS (CB-1 & CB-2) TO BE INLET TYPE A WITH FRAME & GRATE TYPE 3 PER STANDARD DETAILS 602301-04 & 604006-05.

LEGEND

- INLET
- MANHOLE
- STORM DRAIN
- FLEXAMAT
- GRADING LIMITS
- DITCH GRADE BREAK
- CURB CUT
- XXX PROP CONTOUR
- XXX EXIST CONTOUR
- FLOW ARROW

KEYED NOTES

1. PROPOSED CURB CUT

CONSULTANTS
HDR
4620 E 53RD STREET
DAVENPORT, IA 52807-3620
(563) 293-7684

PREPARED FOR
QUAD CITIES INTERNATIONAL AIRPORT

NO.	DATE	DESCRIPTION	BY
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		FIELD VERIFICATION BY:	DATE:
		DRAWINGS CORRECTED BY:	DATE:

811 CALL J.U.L.I.E BEFORE YOU DIG

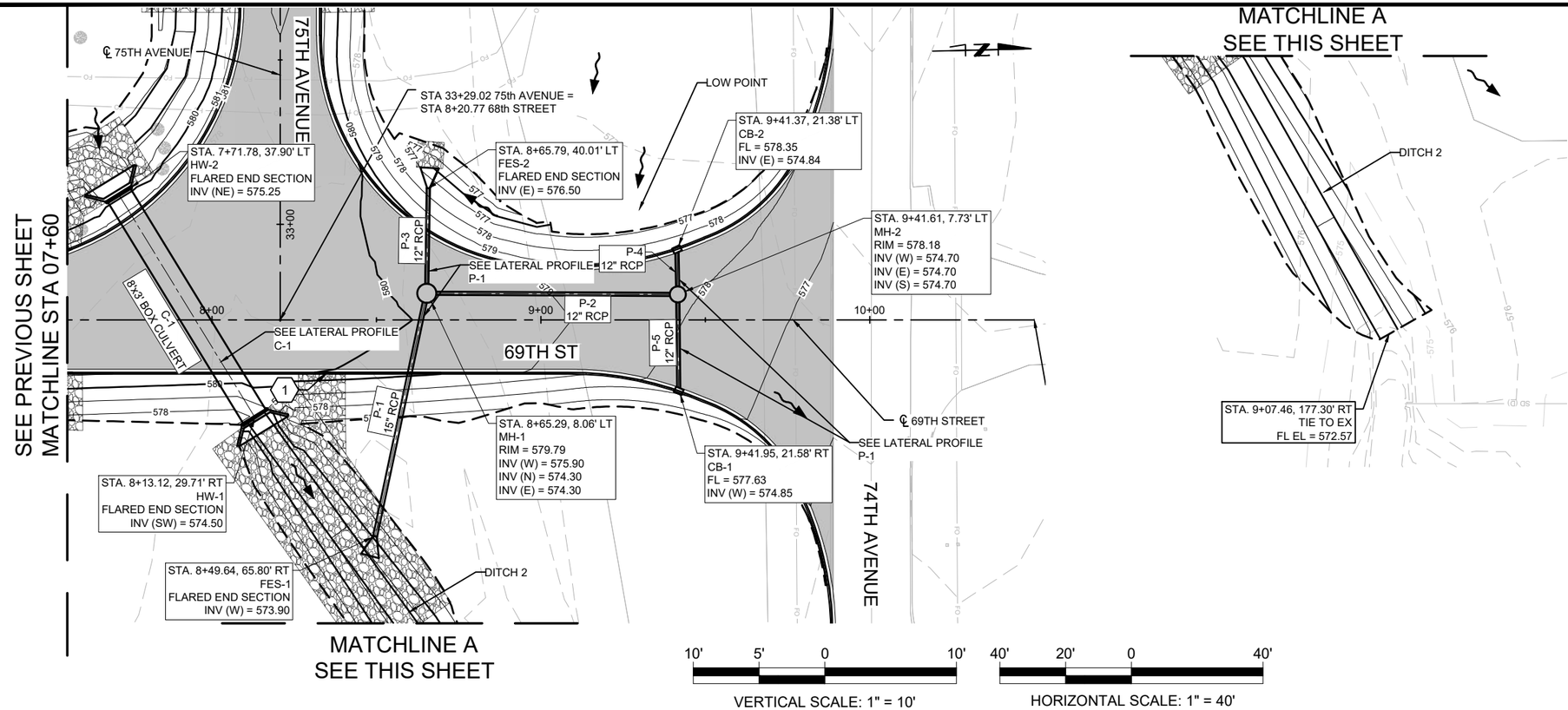
DESIGNED BY: MM
DRAWN BY: AJ
CHECKED BY: SM
DATE:

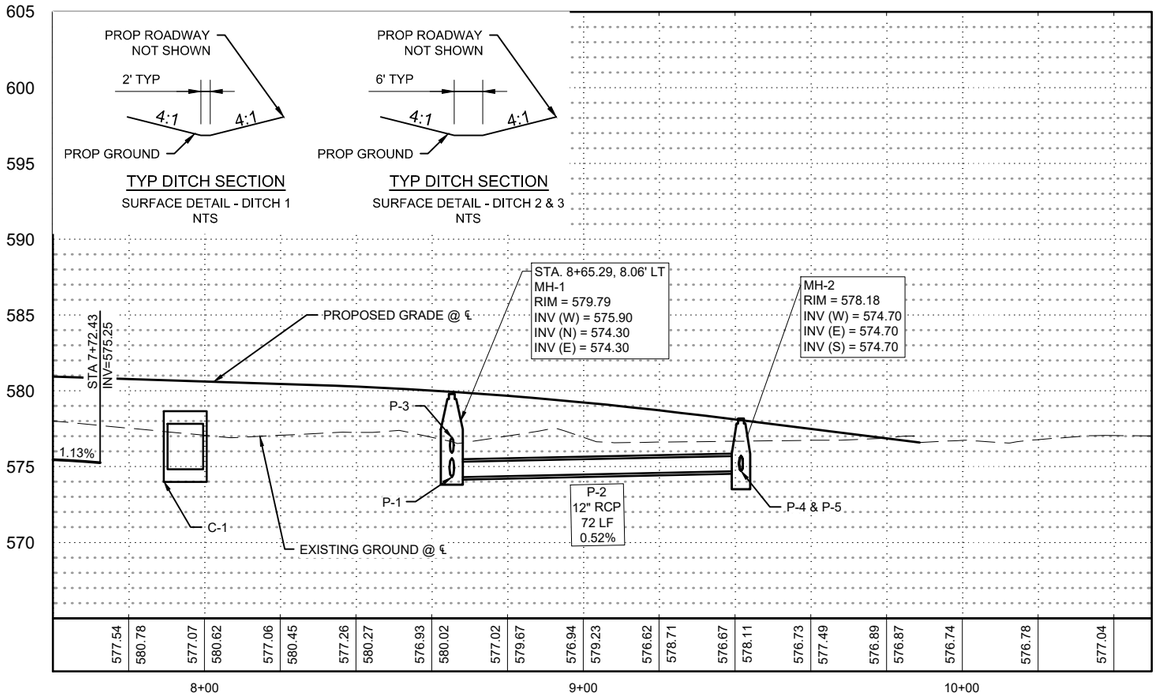
METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

DRAINAGE PLAN (2 OF 4)

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. **20 of 61**





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- GRADING LIMITS
- DITCH GRADE BREAK
- CURB CUT
- XXX PROP CONTOUR
- XXX EXIST CONTOUR
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KEYED NOTES

1. PROPOSED CURB CUT

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HDR
4620 E 53RD STREET
DAVENPORT, IA 52807-3620
(563) 293-7684

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QUAD CITIES INTERNATIONAL AIRPORT

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DESIGNED BY: MM
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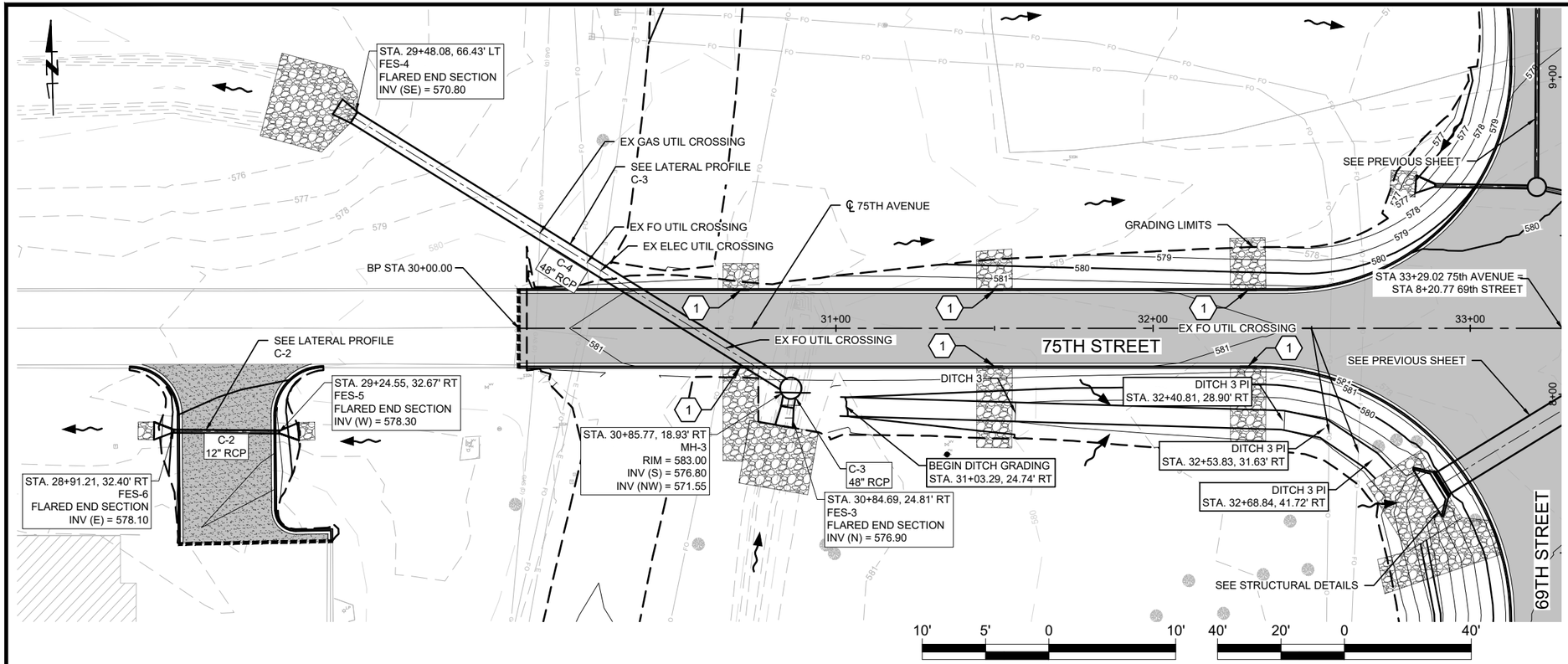
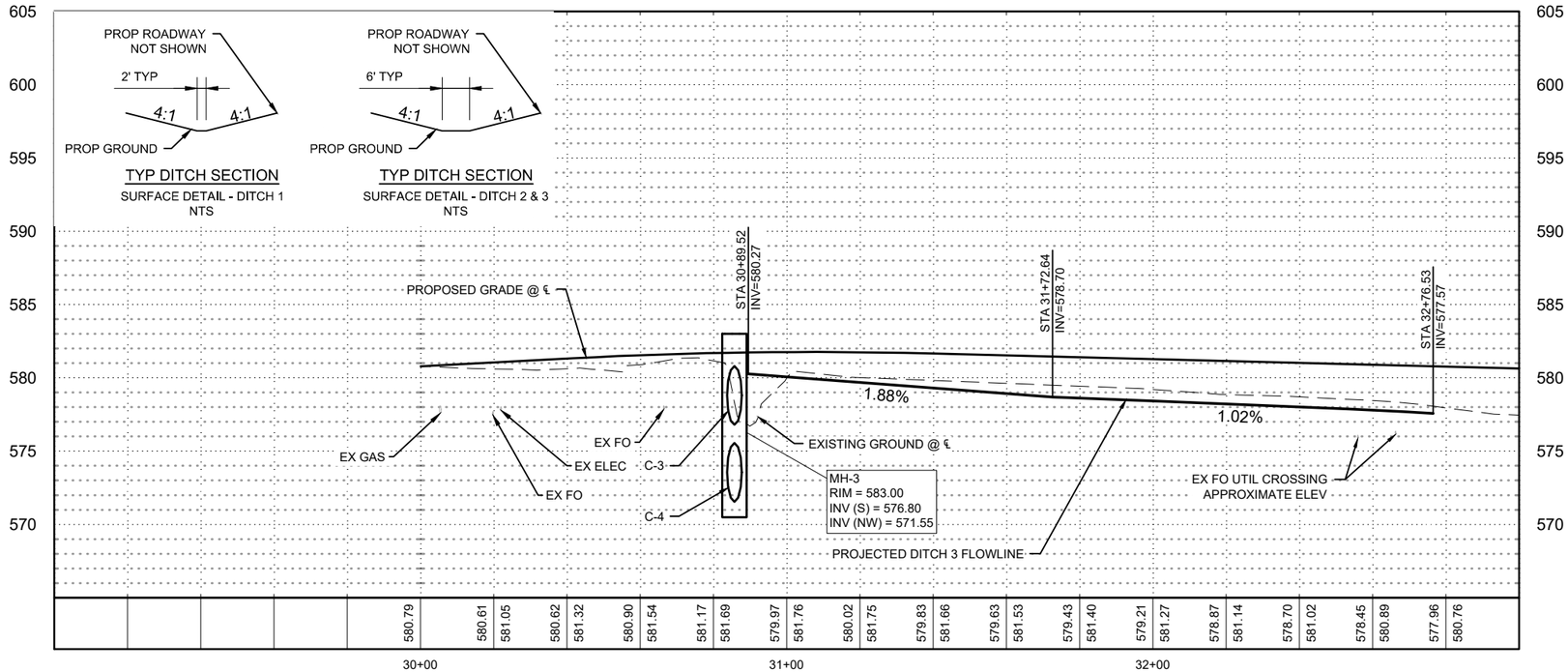
METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

DRAINAGE PLAN (3 OF 4)

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. **21 of 61**





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- XXX EXIST CONTOUR
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KEYED NOTES

1. PROPOSED CURB CUT

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DAVENPORT, IA 52807-3620
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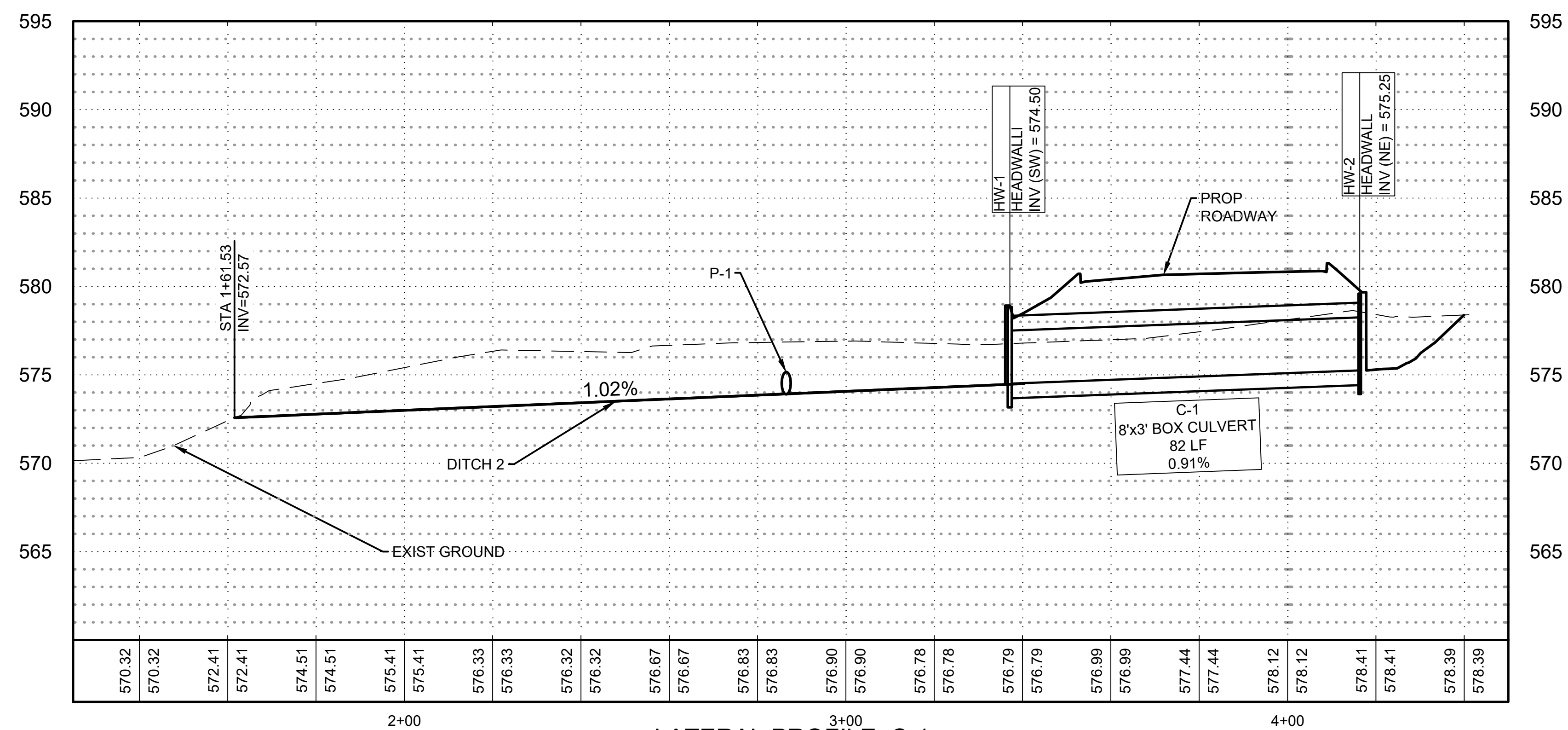
METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

DRAINAGE PLAN (4 OF 4)

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. 22 of 61



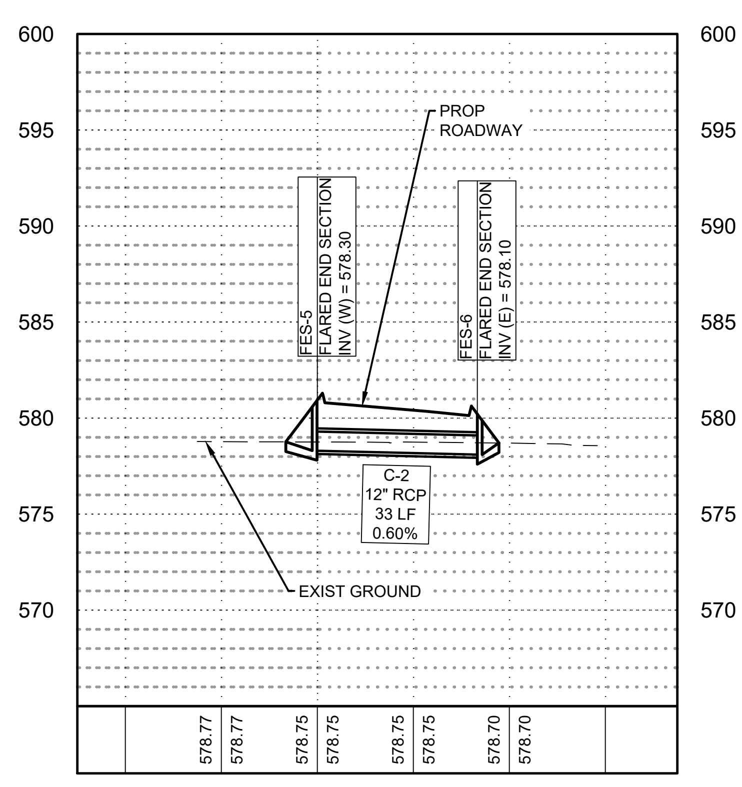
LATERAL PROFILE: C-1

10' 5' 0 10'

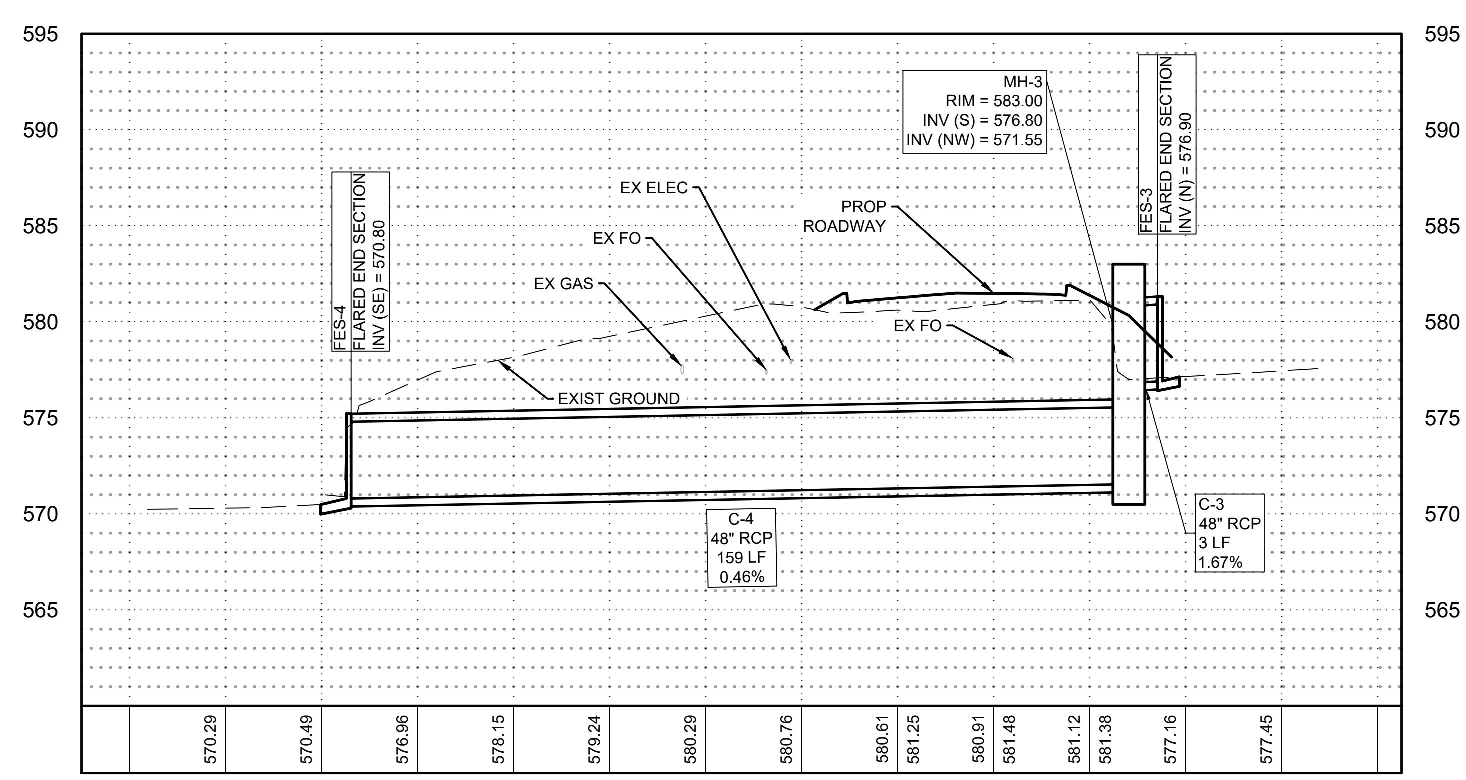
VERTICAL SCALE: 1" = 10'

40' 20' 0 40'

HORIZONTAL SCALE: 1" = 40'



LATERAL PROFILE: C-2



LATERAL PROFILE: C-3

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- XXX EXIST CONTOUR
- FLOW ARROW

KEYED NOTES

1. PROPOSED CURB CUT

CONSULTANTS

4620 E 53RD STREET
DAVENPORT, IA 52807-3620
(563) 293-7684

PREPARED FOR

QUAD CITIES INTERNATIONAL AIRPORT

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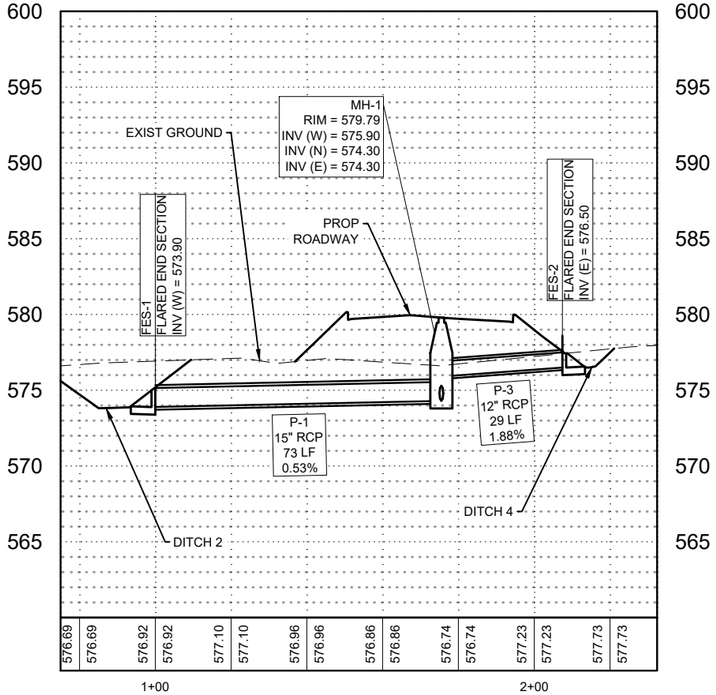
METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)

REALIGN THE GENERAL AVIATION ENTRANCE ROAD

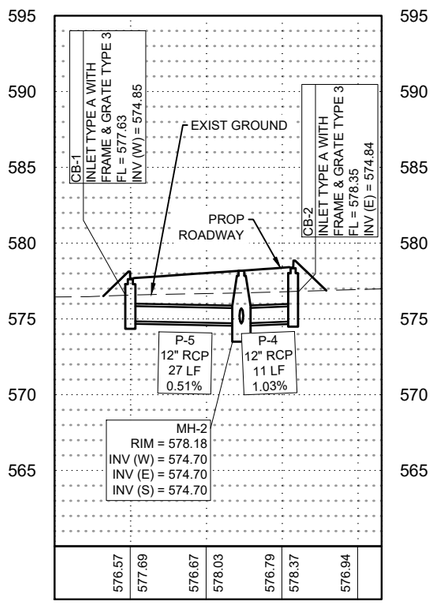
DRAINAGE LATERAL PROFILES (1 OF 2)

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO.



LATERAL PROFILE: P-1



LATERAL PROFILE: P-4

10' 5' 0 10'

VERTICAL SCALE: 1" = 10'

40' 20' 0 40'

HORIZONTAL SCALE: 1" = 40'

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- INLET
- MANHOLE
- STORM DRAIN
- FLEXAMAT
- IG LIMITS
- DITCH GRADE BREAK
- CURB CUT
- XXX PROP CONTOUR
- XXX EXIST CONTOUR
- FLOW ARROW

KEYED NOTES

1. PROPOSED CURB CUT

CONSULTANTS
HDR
4620 E 53RD STREET
DAVENPORT, IA 52807-3620
(563) 293-7684

PREPARED FOR
QUAD CITIES INTERNATIONAL AIRPORT

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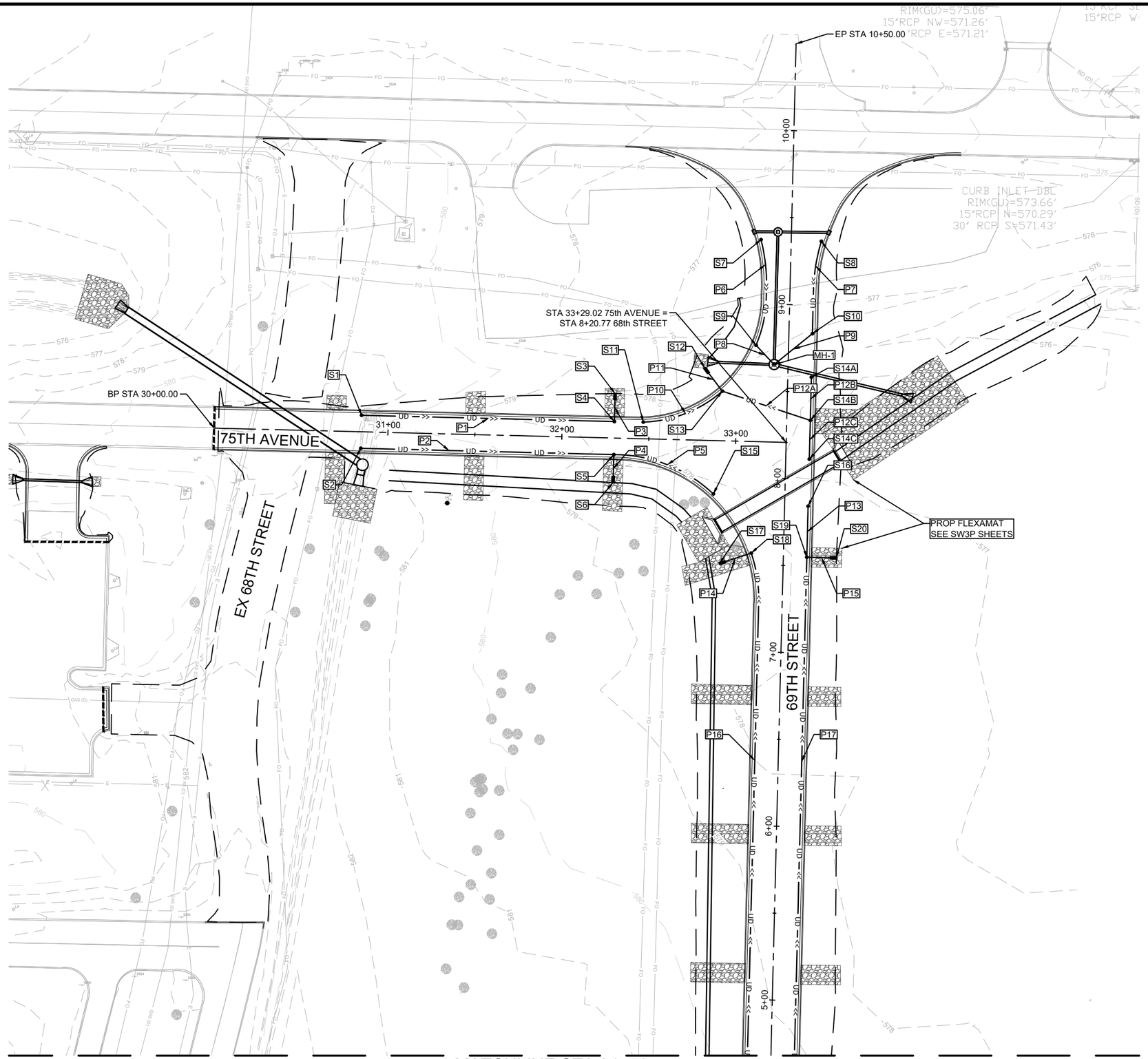
METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

DRAINAGE LATERAL PROFILES (2 OF 2)

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. **24 of 61**



GENERAL NOTES

A. SEE DRAINAGE UNDERDRAIN SCHEDULE SHEET FOR UNDERDRAIN DATA.
B. ALL UNDERDRAIN TO BE 6" PVC UNLESS OTHERWISE SHOWN.
C. UNDERDRAINS TO HAVE A MINIMUM OF 0.5% SLOPE.

LEGEND

- UNDERDRAIN
- UNDERDRAIN HEADWALL
- UNDERDRAIN CLEANOUT
- DITCH BOTTOM WIDTH
- GRADING LIMITS

60' 30' 0 60

SCALE: 1" = 60'

CALL J.U.L.I.E BEFORE YOU DIG

CONSULTANTS
HDR
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DAVENPORT, IA 52807-3620
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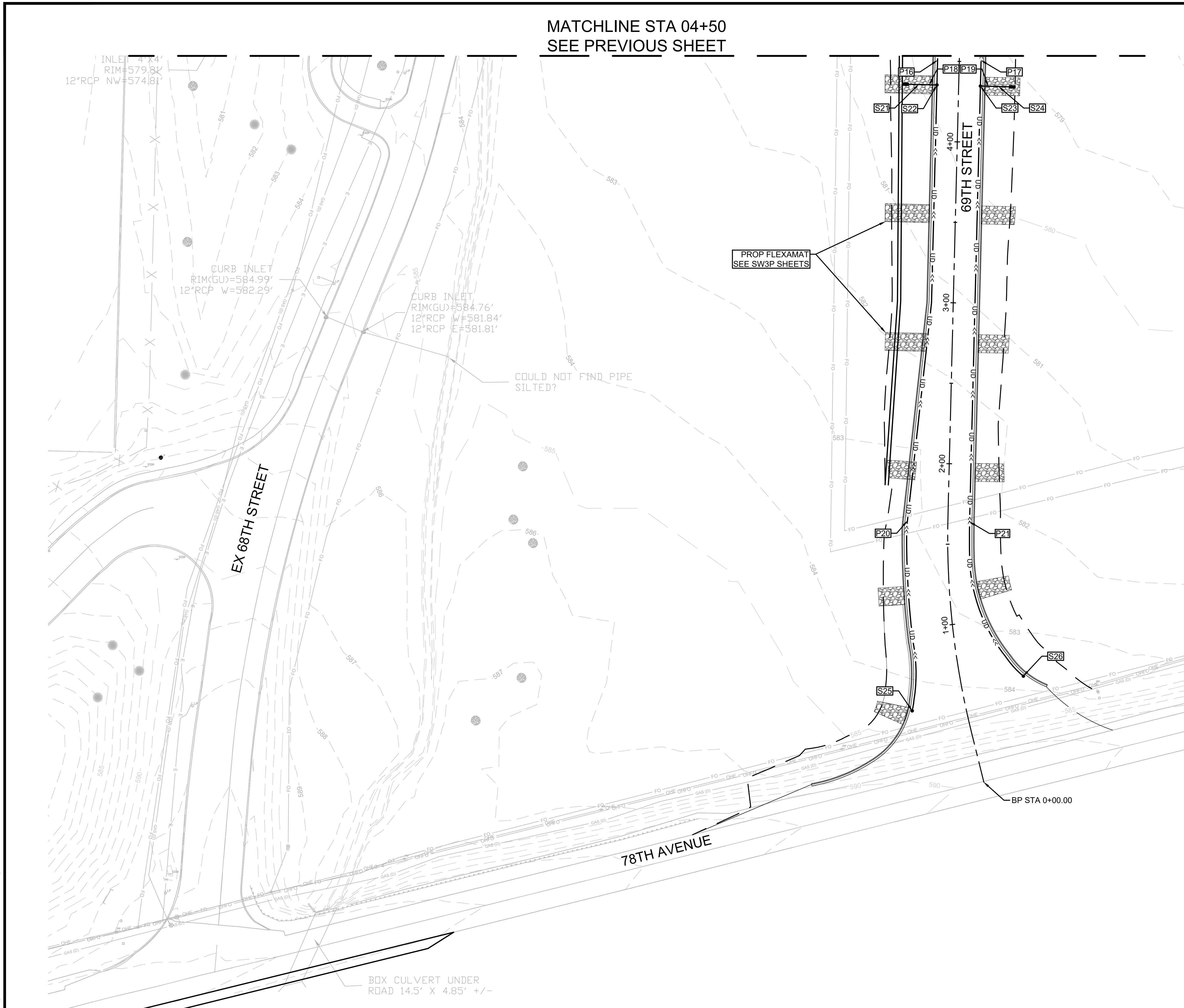
METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

DRAINAGE UNDERDRAIN PLAN (1 OF 2)

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. **25 of 61**



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60' 30' 0 60'
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811
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REALIGN THE GENERAL AVIATION ENTRANCE ROAD

DRAINAGE UNDERDRAIN PLAN (2 OF 2)

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. 26 of 61

UNDERDRAIN STRUCTURE SCHEDULE

S#	CL	STA.	OFFSET		RIM	INVERT	TYPE
SHEET 1							
S1	75TH	30+84.60	9.5	L	581.53	579.53	CLEANOUT
S2	75TH	30+84.60	9.5	R	581.53	579.53	CLEANOUT
S3	75TH	32+30.00	25.6	L	–	578.05	HEADWALL
S4	75TH	32+30.00	9.5	L	580.89	578.39	CLEANOUT
S5	75TH	32+30.00	9.5	R	580.89	578.39	CLEANOUT
S6	75TH	32+30.00	25.57	R	–	578.13	HEADWALL
S7	68TH	6+36.95	17.39	L	578.43	576.43	CLEANOUT
S8	68TH	9+36.87	17.36	R	577.88	575.88	CLEANOUT
S9	68TH	8+83.63	13.51	L	579.36	575.86	CLEANOUT
S10	68TH	8+71.97	13.52	R	579.32	575.32	CLEANOUT
S11	75TH	32.46.6	9.61	L	580.75	578.75	CLEANOUT
S12	68TH	8+62.29	47.8	L	–	577	HEADWALL
S13	67th	8+49.28	37.42	L	579.9	577.4	CLEANOUT
S14A	68TH	8+58.58	13.54	R	579.97	577.97	CLEANOUT
S14B	68TH	8+33.74	13.54	R	580.07	577.82	CLEANOUT
S14C	69th	8+11.45	13.54	R	580.25	578.25	CLEANOUT
S15	75TH	32+87.91	30.69	R	580.86	578.86	CLEANOUT
S16	68TH	7+84.39	13.5	R	580.47	578.47	CLEANOUT
S17	68TH	7+50.15	36.65	L	–	577	HEADWALL
S18	68TH	7+56.64	18.5	L	580.89	578.39	CLEANOUT
S19	68TH	7+55.04	13.5	R	580.71	578.21	CLEANOUT
S20	68TH	7+55.01	30.49	R	–	577.62	HEADWALL
SHEET 2							
S21	68TH	4+35.02	34.78	L		579.2	HEADWALL
S22	68TH	4+35.06	13.5	L	583.3	580.3	CLEANOUT
S23	68TH	4+35.06	13.5	R	583.3	580.3	CLEANOUT
S24	68TH	4+35.06	35	R	–	579.09	HEADWALL
S25	68TH	0+52.45	32.99	L	588.14	586.14	CLEANOUT
S26	68TH	0+60.25	38.94	R	587.49	585.49	CLEANOUT

UNDERDRAIN PIPE SCHEDULE

P#	FROM	TO	LENGTH	SLOPE	TYPE
SHEET 1					
P1	S1	S4	146	0.78%	6" PERFORATED
P2	S2	S5	146	0.78%	6" PERFORATED
P3	S4	S3	16	2.13%	6" NON PERFORATED
P4	S5	S6	16	1.62%	6" NON PERFORATED
P5	S15	S5	63	0.75%	6" PERFORATED
P6	S7	S9	62	0.92%	6" PERFORATED
P7	S8	S10	54	1.04%	6" PERFORATED
P8	S9	MH-1	15	0.50%	6" NON PERFORATED
P9	S10	MH-1	28	0.50%	6" NON PERFORATED
P10	S11	S13	50	2.70%	6" PERFORATED
P11	S13	S12	17	2.35%	6" PERFORATED
P12A	S14B	S13	53	0.79%	6" NON PERFORATED
P12B	S14A	S14B	25	0.60%	6" PERFORATED
P12C	S14C	S14B	23	1.87%	6" PERFORATED
P13	S16	S19	30	0.87%	6" PERFORATED
P14	S18	S17	20	6.95%	6" NON PERFORATED
P15	S19	S20	20	2.95%	6" NON PERFORATED
P16	S22	S18	322	0.59%	6" PERFORATED
P17	S23	S19	320	0.65%	6" PERFORATED
SHEET 2					
P16	S22	S18	322	0.59%	6" PERFORATED
P17	S23	S19	322	0.65%	6" PERFORATED
P18	S22	S21	22	5.00%	6" NON PERFORATED
P19	S23	S24	22	5.50%	6" NON PERFORATED
P20	S25	S22	390	1.50%	6" PERFORATED
P21	S26	S23	376	1.38%	6" PERFORATED

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B. ALL UNDERDRAIN TO BE 6" PVC UNLESS OTHERWISE SHOWN.
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LEGEND

- UD >> UNDERDRAIN
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- UNDERDRAIN CLEANOUT
- DITCH BOTTOM WIDTH
- GRADING LIMITS

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DATE:

METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

DRAINAGE UNDERDRAIN SCHEDULE

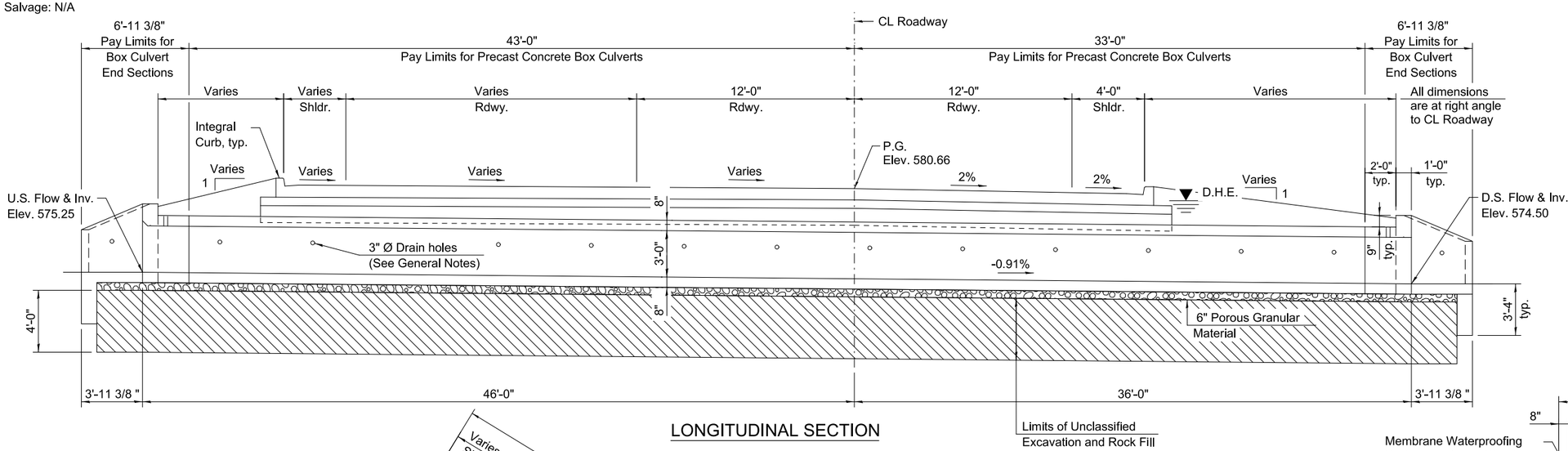
CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. **27 of 61**

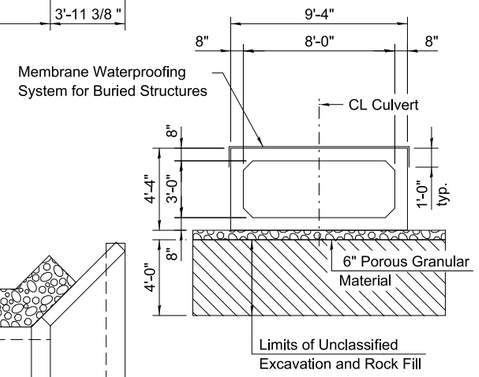
Benchmark: BM#3 Center Bolt of Hydrant located at N1738814.215, E2203945.550, Elev. 582.46

Existing Structure: None

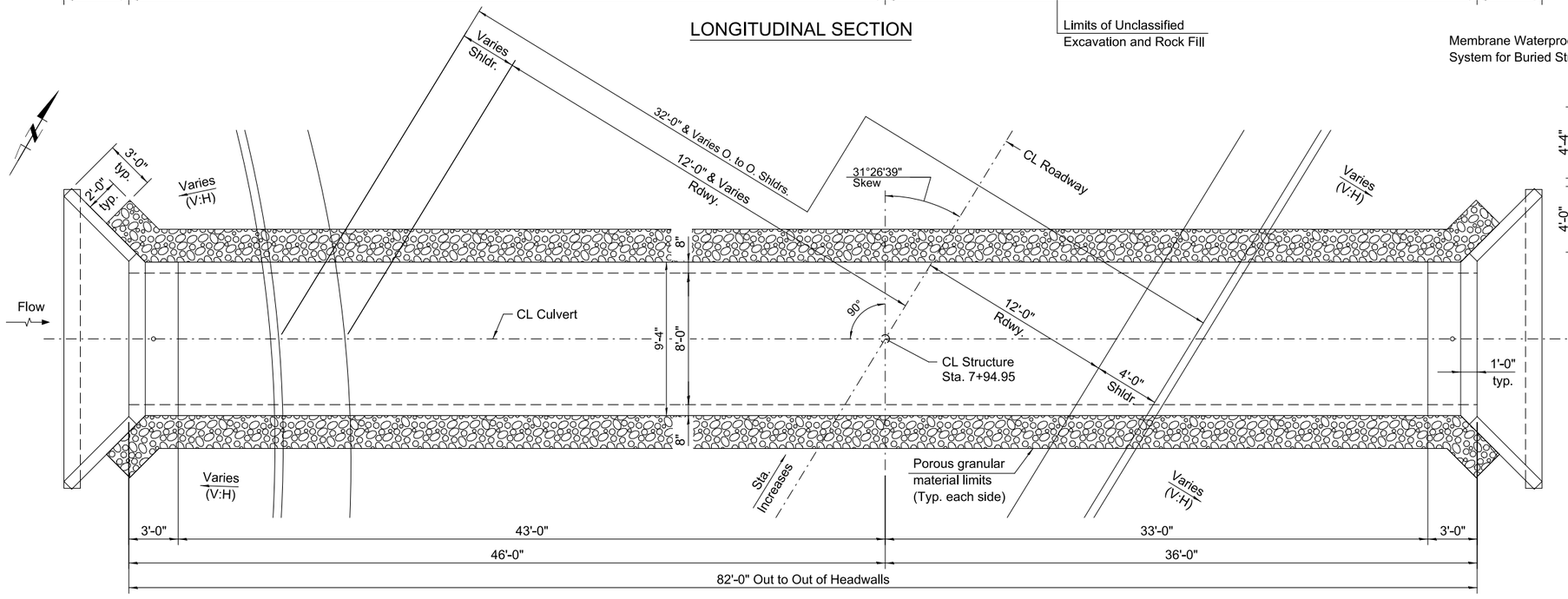
Salvage: N/A



LONGITUDINAL SECTION



SECTION THRU BARREL



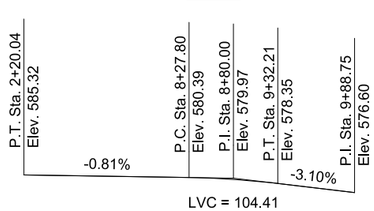
PLAN

WATERWAY INFORMATION

Drainage Area = 0.76 sq. mi. Low Grade Elev. = 581.3 @ Sta. 7+75.73

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	83	N/A	18		N/A	1.48	N/A	577.55
Design	25	197	N/A	24		N/A	3.00	N/A	579.87
	50	428	N/A	24		N/A	4.45	N/A	582.30
Base	100	467	N/A	24		N/A	4.47	N/A	582.45
Overtopping		248	N/A	24		N/A		N/A	581.30
Max. Calc.	500	725	N/A	24		N/A	4.57	N/A	583.28

10 year Velocity through Existing Culvert = N/A ft/s
10 year Velocity through Proposed Culvert = 1.09 ft/s



PROFILE GRADE

(Along CL Roadway)

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications
Customary U.S. Units, 9th Edition

LOADING HL-93

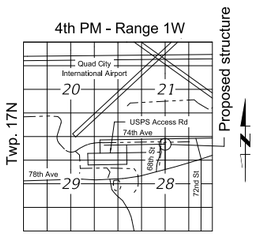
DESIGN STRESSES

PRECAST UNITS

f'c = 5,000 psi
fy = 65,000 psi (Welded Wire Reinforcement)

FIELD UNITS

f'c = 3,500 psi
fy = 65,000 psi (Welded Wire Reinforcement)



LOCATION SKETCH

CALL J.U.L.I.E BEFORE YOU DIG

HDR
4620 E 53RD STREET
DAVENPORT, IA 52807-3620
(563) 293-7684

CONSULTANTS

PREPARED FOR

QUAD CITIES INTERNATIONAL AIRPORT

NO.	DATE	DESCRIPTION	BY
		AS-BUILT INFORMATION	
		CONTRACTOR:	
		WORK STAKED BY:	DATE:
		INSPECTOR'S ACCEPTANCE BY:	DATE:
		FIELD VERIFICATION BY:	DATE:
		DRAWINGS CORRECTED BY:	DATE:

DESIGNED BY: JM
DRAWN BY: JM
CHECKED BY: MBQ
DATE: 02/06/2025

METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)

REALIGN THE GENERAL AVIATION ENTRANCE ROAD

69TH STREET OVER DIVERSION CHANNEL GENERAL PLAN AND ELEVATION

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. **28 of 61**

Date: 13 Sep 2024 - 8:56am User: JMIGUS Layout: Model
Drawing Name: BORDER.dwg

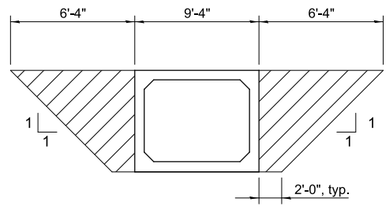
GENERAL NOTES

The design fill height for this box is 2'-0" ft. The precast box culvert sections shall conform to the requirements of ASTM C 1577.

Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the IDOT Standard Specifications for Road and Bridge Construction.

Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the IDOT Standard Specifications for Road and Bridge Construction. The minimum weight of the fabric shall be 6 ounces per square yard.

Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment in the required excavation areas on the sides of the box culvert from the top of the box culvert to the bottom of the box culvert. This area of PGE is included in the Porous Granular Embankment pay item. The 6-inch thick layer of porous granular material required under the precast concrete box culvert, according to Section 540.06 of the IDOT Standard Specifications for Road and Bridge Construction, shall also apply to the end sections. Cost of this porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.



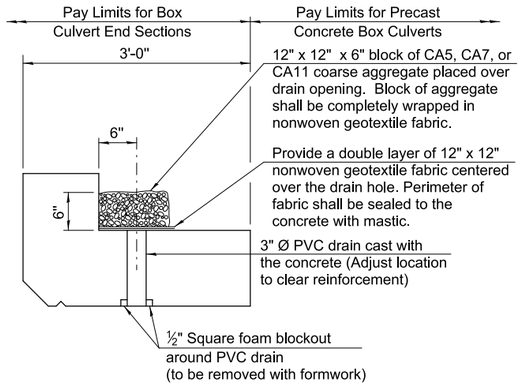
PAY LIMITS FOR POROUS GRANULAR EMBANKMENT
(Hatched area)

INDEX OF SHEETS

TOTAL BILL OF MATERIAL

	ITEM	UNIT	TOTAL
	Box Culvert End Sections	Each	2
	Precast Concrete Box Culverts, 8'x3'	Foot	76.0
	Porous Granular Embankment	Cu. Yd.	111.0
	Membrane Waterproofing System for Buried Structures	Sq. Yd.	101
**	Unclassified Excavation	Cu. Yd.	180
**	Rockfill	Cu. Yd.	180

** Unclassified Excavation beneath the bedding material is anticipated to a depth of approximately 4 feet. Nominal quantities are provided for both "Unclassified Excavation" and "Rockfill". Removal depth shall be determined by the Engineer after the proposed bottom of Porous Granular Material bedding is reached, and the Contractor will be paid for the actual volume excavated and filled.



DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

CONSULTANTS
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PREPARED FOR
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		WORK STAKED BY: DATE:	
		INSPECTOR'S ACCEPTANCE BY: DATE:	
		FIELD VERIFICATION BY: DATE:	
		DRAWINGS CORRECTED BY: DATE:	

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DESIGNED BY: JM
DRAWN BY: JM
CHECKED BY: MBQ
DATE: 02/06/2025

METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)

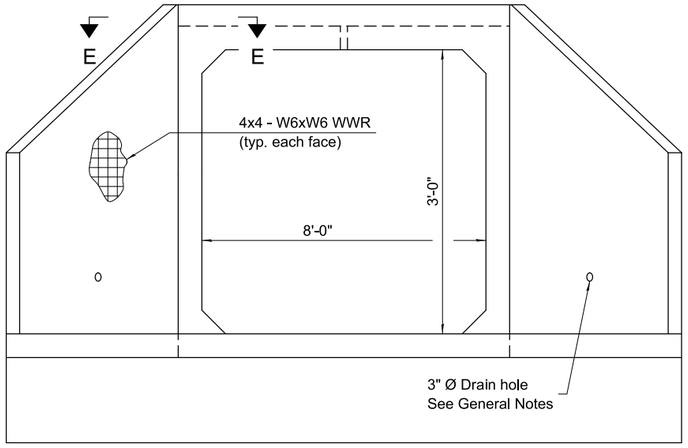
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

69TH STREET OVER DIVERSION CHANNEL
GENERAL NOTES AND DETAILS

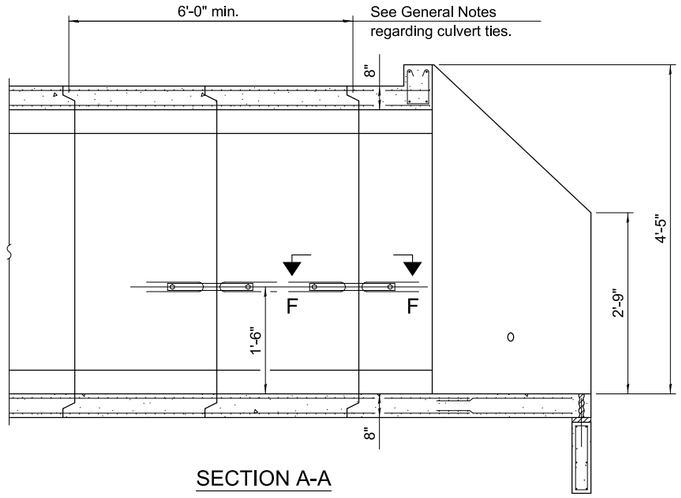
CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. **29 of 61**

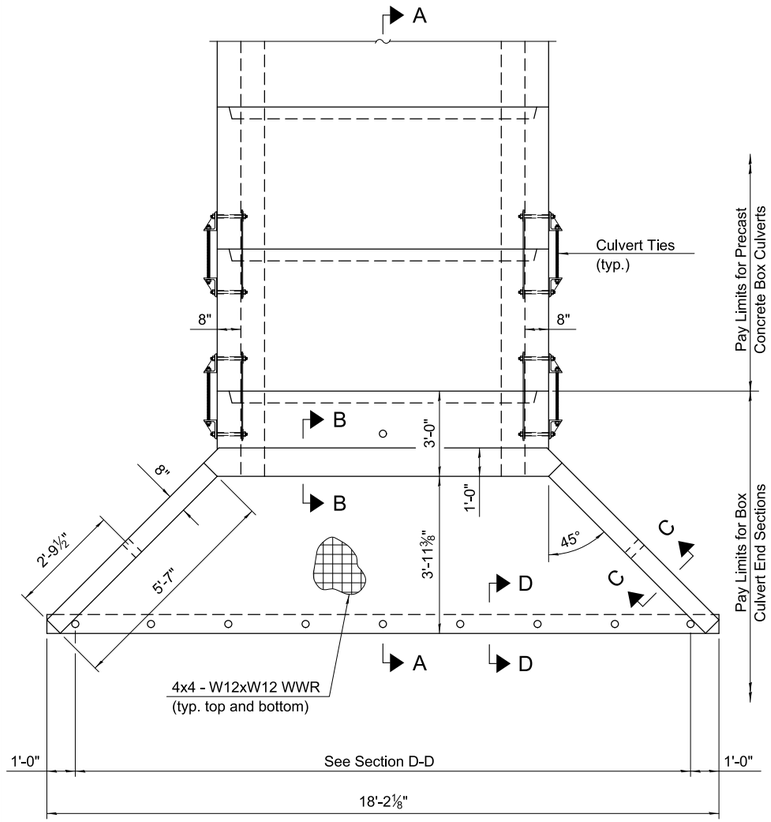
Date: 13 Sep 2024 - 8:58am User: JMIGUS Layout: Model
Drawing Name: BORDER.dwg



END VIEW



SECTION A-A



PLAN

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the IDOT Standard Specifications for Road and Bridge Construction except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

The Contractor may furnish the end section as a single precast concrete piece or construct the end section in the field using cast-in-place (CIP) construction. For CIP construction, the bottom slab thickness shall be ncreased by 2" and the clear cover to the bottom mat of reinforcement shall be increased to 3".

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

The number of culvert ties shall be sufficient to engage the minimum length of culvert barrel shown within the pay limits for Precast Concrete Box Culverts and will be dependent upon the length of box culvert segments furnished by the Contractor. Culvert ties are not required for box culverts having a rise (R) less than or equal to 3 ft and a span (S) greater than or equal to 10 ft.

All costs associated with furnishing and installing or constructing the toewall and culvert ties will not be measured for payment but shall be included in the unit price for Box Culvert End Sections of the culvert number specified.

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than ½" nor more than 2". For the precast option, it shall be the Contractor's responsibility for determining a method of handling and a construction procedure shall be included on the shop drawings. The Contractor shall determine and detail in the shop drawings any necessary strengthening or stiffening provisions necessary to handle the precast segment. Any required modifications shall be at no extra charge.

The Contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided by the WWR. Minimum lap lengths detailed herein are applicable to WWR and reinforcement bars.

Reinforcement (circumferential and longitudinal) in the culvert barrel portion of the end section being lapped with reinforcement from the wingwalls or bottom slab of the end section shall not be less than that required by ASTM C 1577 for the design fill height or the reinforcement detailed for the end section, whichever is greater.

One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within the lower 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the IDOT Standard Specifications for Road and Bridge Construction.

CONSULTANTS
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(563) 293-7684

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		WORK STAKED BY: DATE:	
		INSPECTOR'S ACCEPTANCE BY: DATE:	
		FIELD VERIFICATION BY: DATE:	
		DRAWINGS CORRECTED BY: DATE:	

811 CALL J.U.L.I.E BEFORE YOU DIG

DESIGNED BY: JM
DRAWN BY: JM
CHECKED BY: MBQ
DATE: 02/06/2025

METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)

REALIGN THE GENERAL AVIATION ENTRANCE ROAD

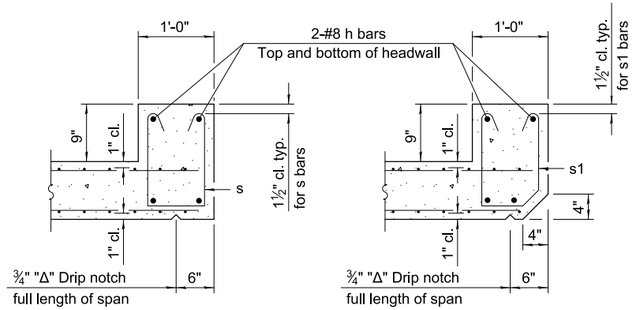
69TH STREET OVER DIVERSION CHANNEL
CULVERT DETAILS (1 OF 2)

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. **30 of 61**

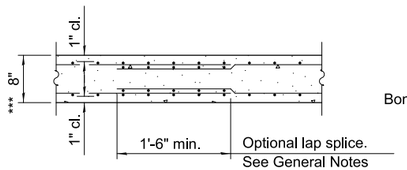
SCB-AES 5-15-2023

Date: 13 Sep 2024 - 8:56am User: JMGUS Layout: Model
Drawing Name: BORDER.dwg

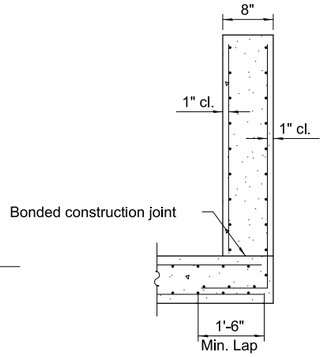


SECTION B-B
(Top slab at downstream end)

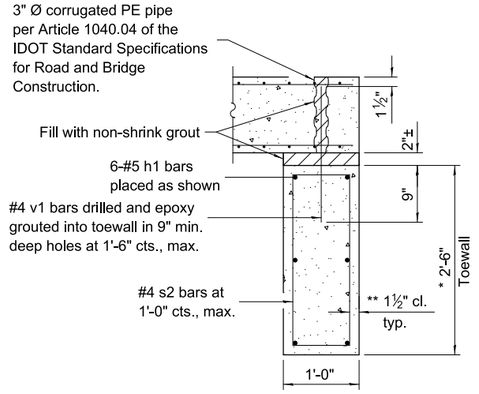
SECTION B-B
(Top slab at upstream end)



SECTION B-B
(Bottom Slab)

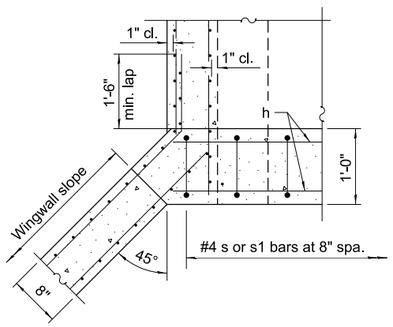


SECTION C-C



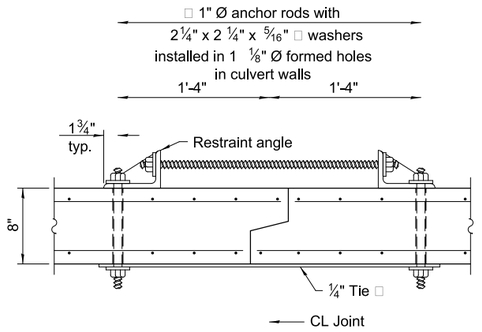
SECTION D-D

*** This dimension shall be increased by 2" for CIP construction.

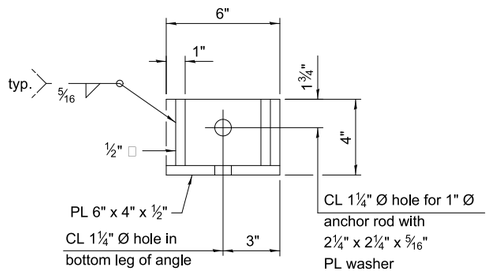


SECTION E-E

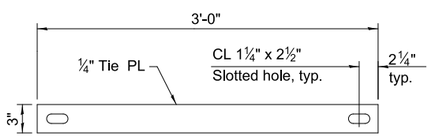
Notes:
1" Ø anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for the tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the IDOT Standard Specifications for Road and Bridge Construction. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2¼"x2¼"x5⁄16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional ⅙ turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.



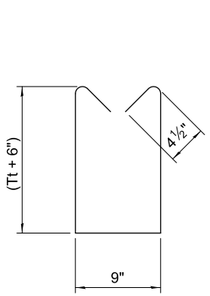
SECTION F-F
(Showing culvert tie details)



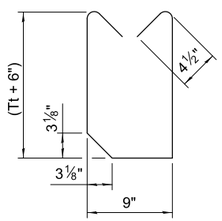
RESTRAINT ANGLE DETAIL



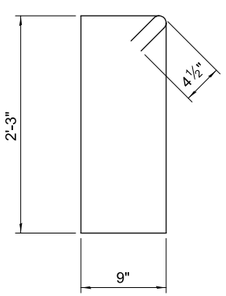
TIE PLATE DETAIL



BAR s



BAR s1



BAR s2

TOEWALL CONSTRUCTION SEQUENCE

1. Perform excavation and construct toewall.
2. Backfill accordingly and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the IDOT Standard Specifications for Road and Bridge Construction.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the IDOT Standard Specifications for Road and Bridge Construction.

* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling method.

** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.

CONSULTANTS
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4620 E 53RD STREET
DAVENPORT, IA 52807-3620
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CALL J.U.L.I.E
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DESIGNED BY: JM
DRAWN BY: JM
CHECKED BY: MBQ
DATE: 02/06/2025

METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)

REALIGN THE GENERAL AVIATION ENTRANCE ROAD

69TH STREET OVER DIVERSION CHANNEL
CULVERT DETAILS (2 OF 2)

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. **31 of 61**

Date: 13 Sep 2024 - 8:56am User: JMGUS Layout: Model
Drawing Name: BOXDET-2.dwg

SCB-AES 5-15-2023

Quad City Airport Aviation Entrance
68th St | Moline, Illinois
Terracon Project No. 07245002

Terracon
870 40th Ave
Bettendorf, IA

Boring Log No. 1

Location: See Exploration Plan
Latitude: 41.4405° Longitude: -90.5043°
Datum: Depth (Ft.) Elevation: 578 (Ft.) +/-

Model Layer	Graphic Log	Depth (Ft.)	Elevation	Material Description	Depth (Ft.)	Water Level Observations	Sample Type	Recovery (In.)	Field Test Results	Sample Number	HP (psf)	Unconfined Compressive Strength (psf)	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits LL-PL-PI	Percent Fines
1		0.3	578.7	**ROOT ZONE**, approx. 3"												
2		1.5	577.5	**FILL - LEAN CLAY**, trace organics and sand, dark brown				22		1		2610	19.8	103		
		5.5	573.5	**FILL - LEAN TO FAT CLAY**, trace sand, gray and brown	5			12	2-2-3 N=5	2			21.8			
								16		3		1180	24.1	99		
3		9.0	570	**LEAN CLAY (CL)**, with sand, grayish brown and reddish brown, very soft	10			18	0-0-1 N=1	4			28.7			
		14.0	565	**FAT CLAY (CH)**, trace sand, brown and reddish brown, soft	15			12	0-1-1 N=2	5			44.7			
		19.0	560													
		20.0	559	**SILTY SAND (SM)**, trace gravel, fine grained, gray, medium dense	20			10	1-1-12 N=13	6			23.5			
				Boring Terminatnd at 20 Feet												

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
See Supporting Information for explanation of symbols and abbreviations.
Elevation Reference: Elevations were obtained from the USGS topographic survey tool.

Water Level Observations
▽ 8' while drilling
▽ 7½' after drilling

Drill Rig
416

Hammer Type
Automatic

Driller
CN

Logged by
WE

Boring Started
08-09-2024

Boring Completed
08-09-2024

Notes

Advancement Method
Continuous-Flight Solid-Stem Auger

Abandonment Method
Boring backfilled with auger cuttings upon completion.

Quad City Airport Aviation Entrance
68th St | Moline, Illinois
Terracon Project No. 07245002

Terracon
870 40th Ave
Bettendorf, IA

Boring Log No. 2

Location: See Exploration Plan
Latitude: 41.4401° Longitude: -90.5038°
Datum: Depth (Ft.) Elevation: 578 (Ft.) +/-

Model Layer	Graphic Log	Depth (Ft.)	Elevation	Material Description	Depth (Ft.)	Water Level Observations	Sample Type	Recovery (In.)	Field Test Results	Sample Number	HP (psf)	Unconfined Compressive Strength (psf)	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits LL-PL-PI	Percent Fines
1		1.0	577	**TOPSOIL**, approx. 12"												
2		4.0	574	**FILL - LEAN CLAY**, trace organics and sand, dark gray				12	2-3-2 N=5	1			21.5			
		6.5	571.5	**FILL - LEAN TO FAT CLAY**, gray	5			15	2-2-2 N=4	2			23.5		43-18-25	97
3		13.5	564.5	**FAT CLAY (CH)**, trace sand, reddish brown and gray, stiff				16		3		2360	26.7	97		
				soft at Sample 4	10			24		4		940	43.8	78		
		19.0	559	**LEAN CLAY WITH SILT (CL)**, gray and brown, soft	15			12	3-0-2 N=2	5			29.4			
		20.5	557.5	**POORLY GRADED SAND (SP)**, trace gravel, fine to medium grained, gray, loose	20			15	2-4-5 N=9	6			11.9			
				Boring Terminated at 20.5 Feet												

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).
See Supporting Information for explanation of symbols and abbreviations.
Elevation Reference: Elevations were obtained from the USGS topographic survey tool.

Water Level Observations
▽ 2½' while drilling
▽ 6½' after drilling

Drill Rig
416

Hammer Type
Automatic

Driller
CN

Logged by
WE

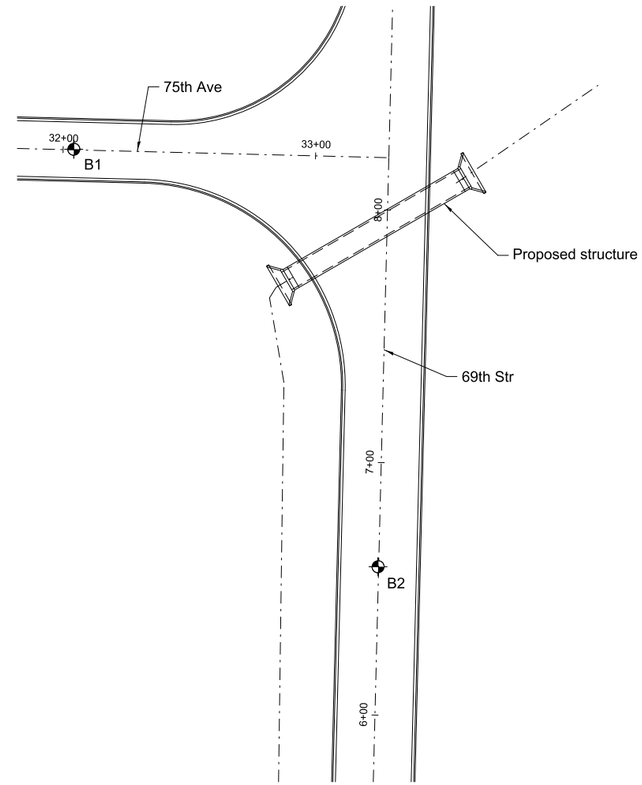
Boring Started
08-09-2024

Boring Completed
08-09-2024

Notes

Advancement Method
Continuous-Flight Solid-Stem Auger

Abandonment Method
Boring backfilled with auger cuttings upon completion.



BORING LOCATION PLAN

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PREPARED FOR

QUAD CITIES INTERNATIONAL AIRPORT

NO.	DATE	DESCRIPTION	BY
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		CONTRACTOR:	
		WORK STAKED BY: DATE:	
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		FIELD VERIFICATION BY: DATE:	
		DRAWINGS CORRECTED BY: DATE:	

DESIGNED BY: JM
DRAWN BY: JM
CHECKED BY: MBQ
DATE: 02/06/2025

METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)

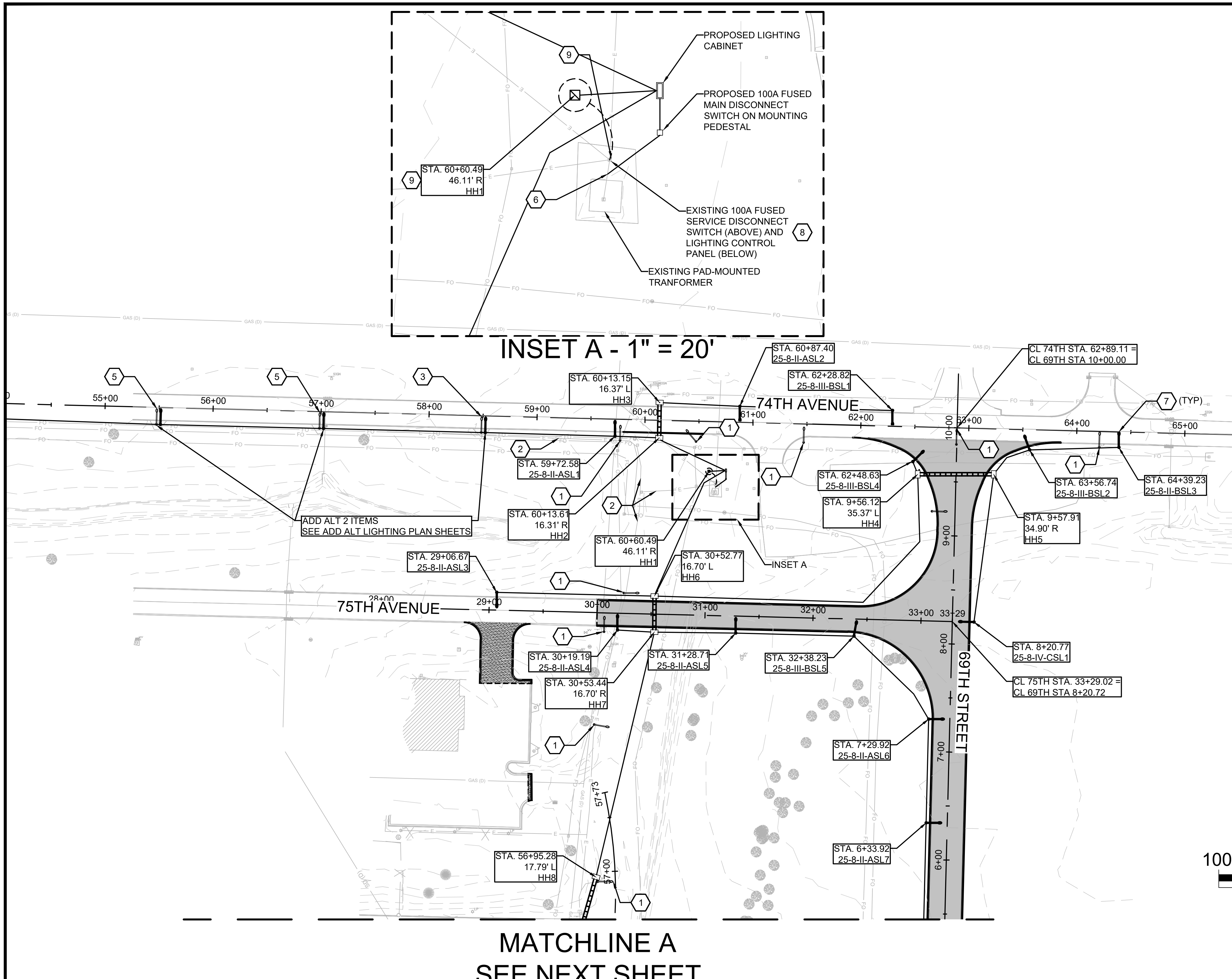
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

69TH STREET OVER DIVERSION CHANNEL
SOIL BORING LOGS

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. **32 of 61**

Date: 13 Sep 2024 - 8:56am User: JMIGUS Layout: Model
Drawing Name: BORDER.dwg



KEYED NOTES

1. REMOVE EXISTING LIGHT POLE, LOCAL HANDHOLE (WHERE APPLICABLE), AND FOUNDATION DOWN TO A MINIMUM OF 24 IN BELOW GRADE.
2. REMOVE EXISTING LIGHTING CIRCUIT CONDUCTORS FEEDING LIGHT POLES SHOWN FOR REMOVAL. ABANDON THE REMAINING CONDUIT OR REMOVE AS NEEDED .
3. CONNECT NEW AND EXISTING LIGHTING CIRCUIT CONDUCTORS AT LIGHT POLE HANDHOLE.
4. INSTALL HANDHOLE HH1 TO INTECEPT EXISTING UNDERGROUND LIGHTING CONDUITS AT LOCATION OF REMOVED MAIN DISCONNECT/CONTROL CABINET PEDESTAL. SPLICE NEW AND EXISTING CONDUCTORS INSIDE HANDHOLE.
5. EXISTING LIGHT POLE TO BE PROTECTED IN PLACE.
6. UNDERGROUND EXISTING CONDUIT COMING FROM TRANSFORMER SECONDARY SHALL BE INTERCEPTED BETEEN TRANSFORMER AND DISCONNECT SWITCH CONTROL CABINET SECONDARY AND ROUTED TO NEW MAIN FUSED DISCONNECT SWITCH.
7. THE SETBACK FOR ALL NEW LIGHT POLES SHOWN IS 7'-0" FROM BACK OF CURB TO CENTER OF POLE.
8. EXISTING PEDESTABLE WITH MOUINTED MAIN FUSED DISCONNECT AND CONTROL CABINET TO BE REMOVED.
9. AFTER REMOVING PEDESTAL AND FOUNDATION INSTALL AT THAT LOCATION HH1. DISCONNECTED BRANCH WIRING AND CONDUITS TO BE ROUTED INTO HH1.

LEGEND

- PROP LIGHT
- EXIST LIGHT
- HANDHOLE, 11"x17" COMPOSITE CONCRETE
- HANDHOLE, 24"x24" COMPOSITE CONCRETE
- RIGID STEEL CONDUIT, JACKED OR DRILLED UNDER PAVEMENT
- HDPE DUCT (COILABLE NONMETALLIC CONDUIT) WITH CABLES

PROPOSED LIGHT POLE DESIGNATION

BASELINE STATION NUMBER — STA. XX+XX
25-8-III-BSL1
LUMINNAIRE MOUNTING HEIGHT (FT)
MOUNTING LENGTH (FT)
POLE NUMBER
IES DISTRIBUTION TYPE (II, III, OR IV)

100' 50' 0 100'
SCALE: 1" = 100'

811
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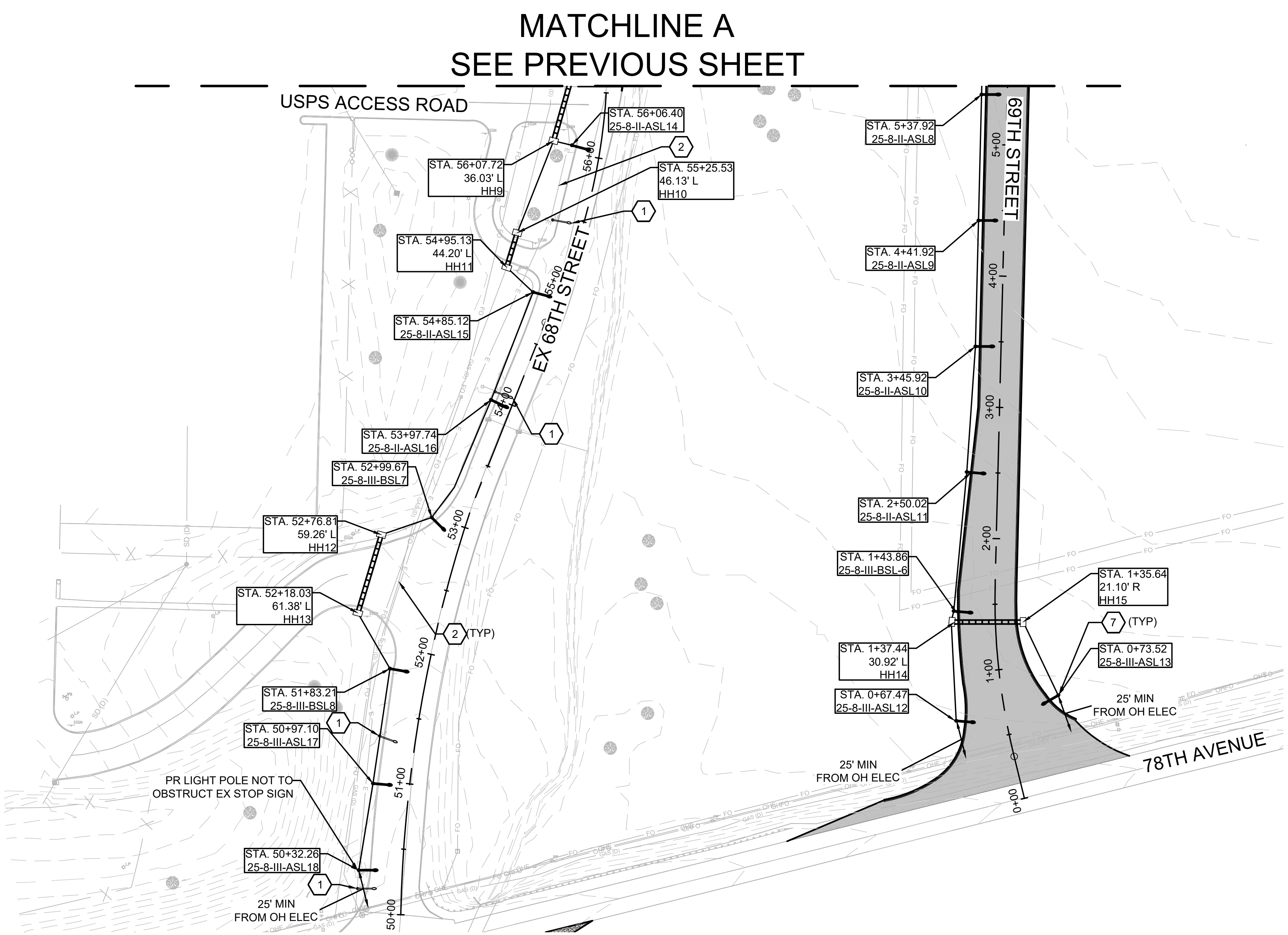
METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

LIGHTING PLAN (1 OF 2)

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. 33 of 61



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MOUNTING LENGTH (FT)
POLE NUMBER
IES DISTRIBUTION TYPE (II, III, OR IV)

100' 50' 0 100'
SCALE: 1" = 100'

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DRAWN BY: AJ
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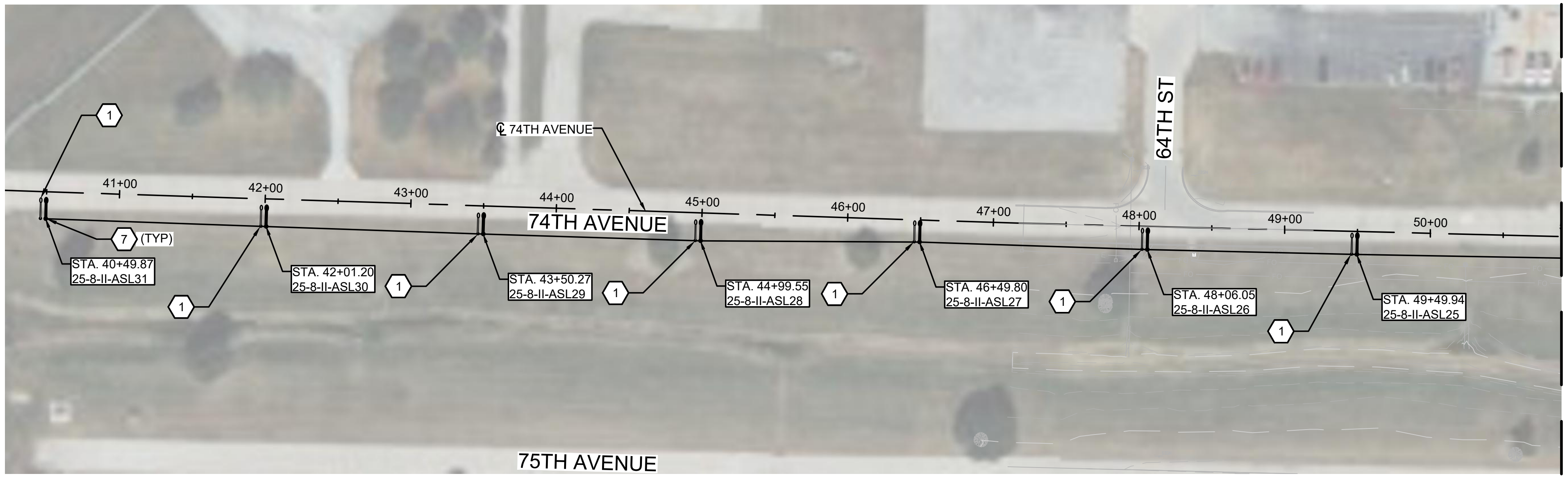
METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)

REALIGN THE GENERAL AVIATION ENTRANCE ROAD

LIGHTING PLAN (2 OF 2)

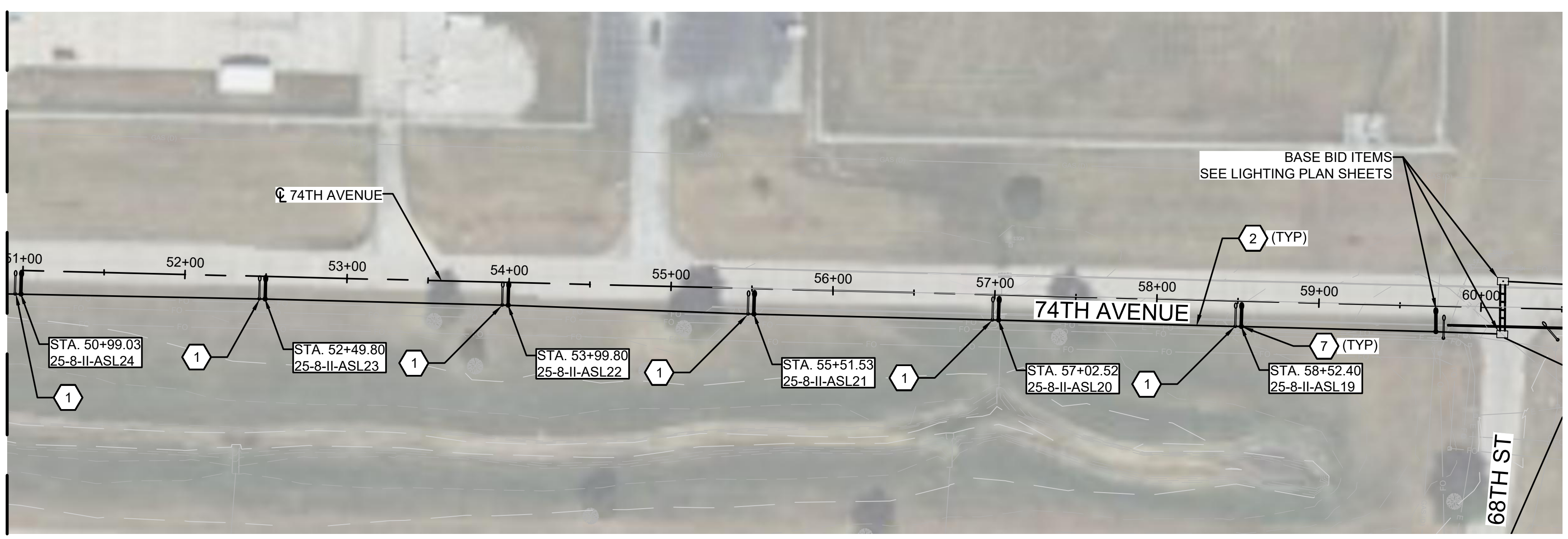
CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. 34 of 61



MATCHLINE B
SEE THIS SHEET

MATCHLINE B
SEE THIS SHEET



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MOUNTING LENGTH (FT)
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811
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METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

ADD ALT 2 - LIGHTING PLAN

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. 35 of 61

LIGHTING EQUIPMENT SCHEDULE

TYPE	DESCRIPTION	LIGHT SOURCE INFORMATION			INSTALLATION INFORMATION								NOTES
		TYPE	INPUT POWER (NOMINAL)	LOAD PER LINEAR FT	VOLTAGE	MOUNTING	COLOR TEMP	DELIVERED LUMENS (NOMINAL)	CRI	MAX SDCM	L70 HOURS	DRIVER	-
ASL-(X)	ROADWAY LUMINAIRE, CORROSION RESISTANT DIE-CAST HOUSING, IES TYPE II DISTRIBUTION, MAST ARM MOUNT, 7-PIN RECEPTACLE WITH SHORTING CAP, -40 to 40 DegC OPERATING TEMPERATURE, FIELD REPLACEABLE 20KA RATED SURGE PROTECTION MEETING ANSI/IEEE C62.41,2, DRIVER WITH 90% POWER FACTOR AND LESS THAN 20% THD, GREY/SILVER FINISH	LED	36	-	480	POLE	4000K	5488	70+	3	100,000+	HIGH/LOW 50% STEP DIM	-
BSL-(X)	ROADWAY LUMINAIRE, CORROSION RESISTANT DIE-CAST HOUSING, IES TYPE III DISTRIBUTION, MAST ARM MOUNT, 7-PIN RECEPTACLE WITH SHORTING CAP, -40 to 40 DegC OPERATING TEMPERATURE, FIELD REPLACEABLE 20KA RATED SURGE PROTECTION MEETING ANSI/IEEE C62.41,2, DRIVER WITH 90% POWER FACTOR AND LESS THAN 20% THD, GREY/SILVER FINISH	LED	36	-	480	POLE	4000K	5553	70+	3	100,000+	HIGH/LOW 50% STEP DIM	-
CSL-(X)	ROADWAY LUMINAIRE, CORROSION RESISTANT DIE-CAST HOUSING, IES TYPE IV DISTRIBUTION, MAST ARM MOUNT, 7-PIN RECEPTACLE WITH SHORTING CAP, -40 to 40 DegC OPERATING TEMPERATURE, FIELD REPLACEABLE 20KA RATED SURGE PROTECTION MEETING ANSI/IEEE C62.41,2, DRIVER WITH 90% POWER FACTOR AND LESS THAN 20% THD, GREY/SILVER FINISH	LED	36	-	480	POLE	4000K	5346	70+	3	100,000+	HIGH/LOW 50% STEP DIM	-
ASL-(X), BSL-(X), AND CSL-(X) POLE AND ARM	ROUND TAPERED STEEL POLE, SINGLE 8' ARM, 25 FT NOMINAL LUMINAIRE MOUNTING HEIGHT, GALVANIZED, VIBRATION DAMPENER, BASE COVER	-	-	-	-	-	-	-	-	-	-	-	1. 1

NOTES:

1. INSTALL LIGHT POLE ON CONCRETE FOUNDATION. (SEE FOUNDATION DETAIL ON PLANS)

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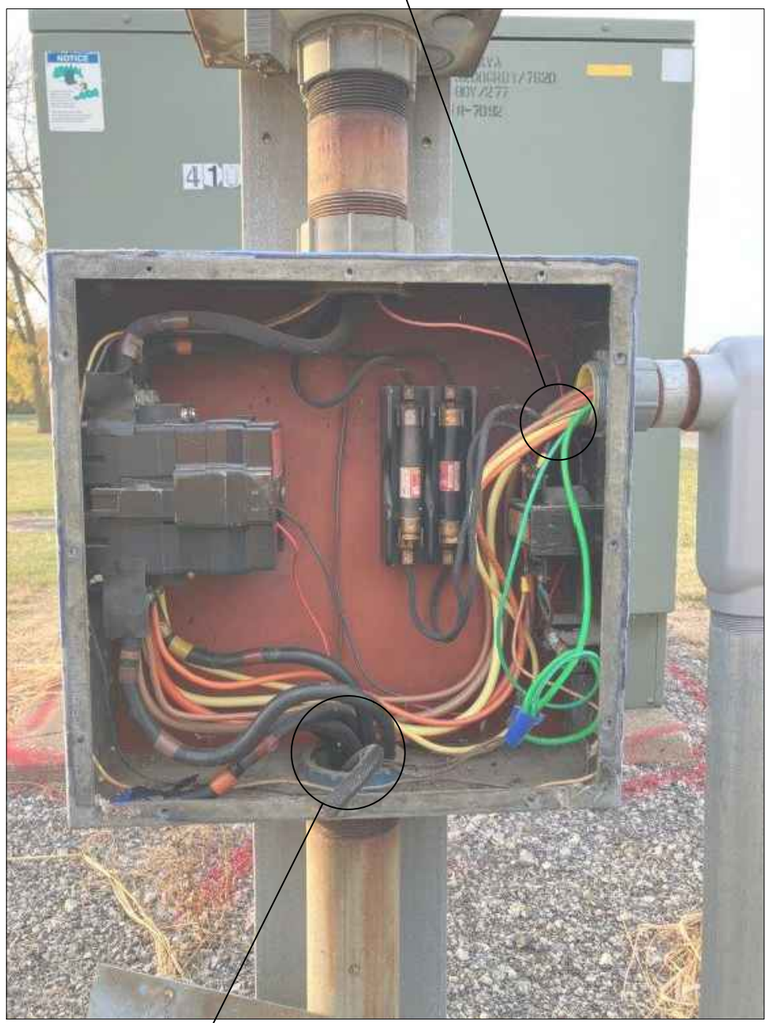
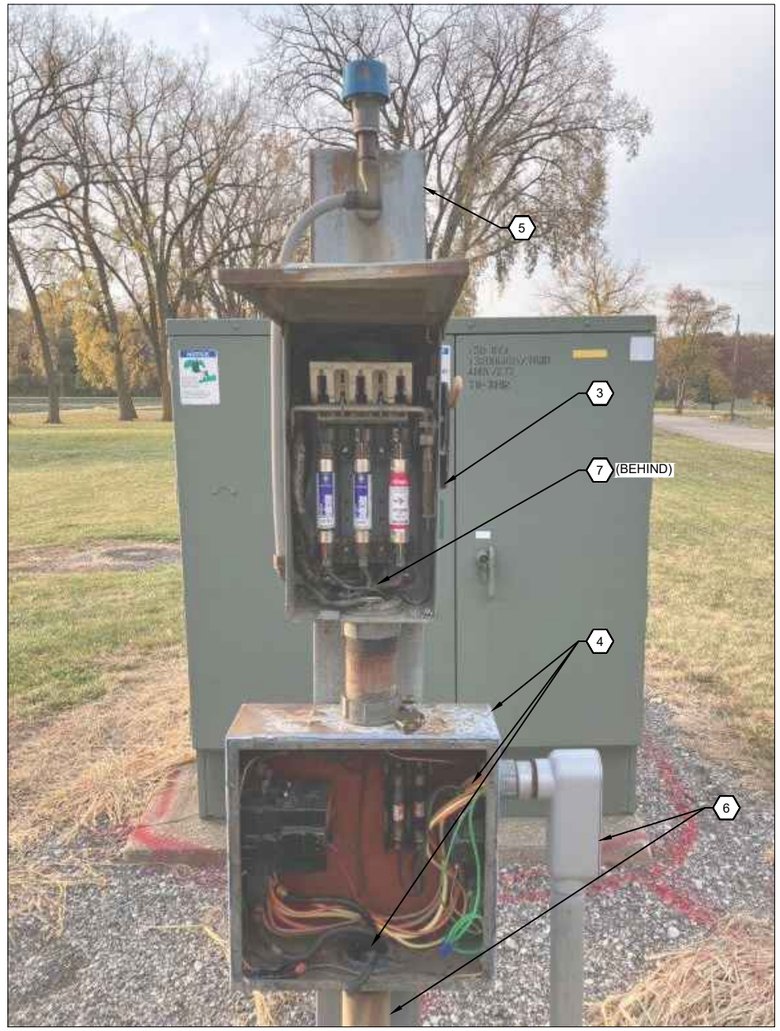
METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

LIGHTING EQUIPMENT SCHEDULE

CLIENT APPROVAL | CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260





NOTES:

1. EXISTING CIRCUITS:
   -CIRCUIT NO. 1 (480V, 3PH): STREET LIGHT POLES
   (SEE PLANS FOR LIGHT POLES TO BE REMOVED FROM THIS CIRCUIT)
   -CIRCUIT NO. 2 (480V, 3 PH): SITE LIGHTING CIRCUIT.
2. EXISTING CIRCUIT:
   -CIRCUIT NO. 3 (480V, 1PH): SITE LIGHTING CIRCUIT.
   -ADDITIONAL CONDUCTORS, NOT CONNECTED.
3. DISCONNECT EXISTING MAIN FUSED DISCONNECT AND REMOVE FROM MOUNTING PEDESTAL.
4. DISCONNECT EXISTING LIGHTING CONTROL CABINET AND REMOVE FROM MOUNTING PEDESTAL.
5. REMOVE MOUNTING PEDESTAL AND ASSOCIATED FOUNDATION.
6. RE MOVE EXISTING LIGHTING BRANCH CIRCUIT CONDUCTORS TO BELOW GRADE, REROUTING TO NEW HANDHOLE HH1 TO BE INSTALLED AT BASE OF CURRENT PEDESTAL AFTER PEDESTAL AND FOUNDATION REMOVAL.
7. EXISTING CONDUIT AND CONDUCTORS FROM TRANSFORMER ARE ROUTED UNDERGROUND AND SURFACE MOUNTED UP THE BACKSIDE OF THE EXISTING MOUNTING PEDESTAL, THE CONDUCTORS SHALL BE REMOVED. THE CONDUIT SHALL BE REMOVE BACK TO A POINT BETWEEN THE TRANSFORMER AND PEDESTAL. IT SHALL BE THEN EXTENDED TO THE NEW PEDESTAL MOUNTED FUSED DISCONNECT SWITCH. NEW CONDUCTORS SHALL BE INSTALLED BETWEEN THE TRANSFORMER SECONDARY AND THE NEW FUSED DISCONNECT SWITCH.

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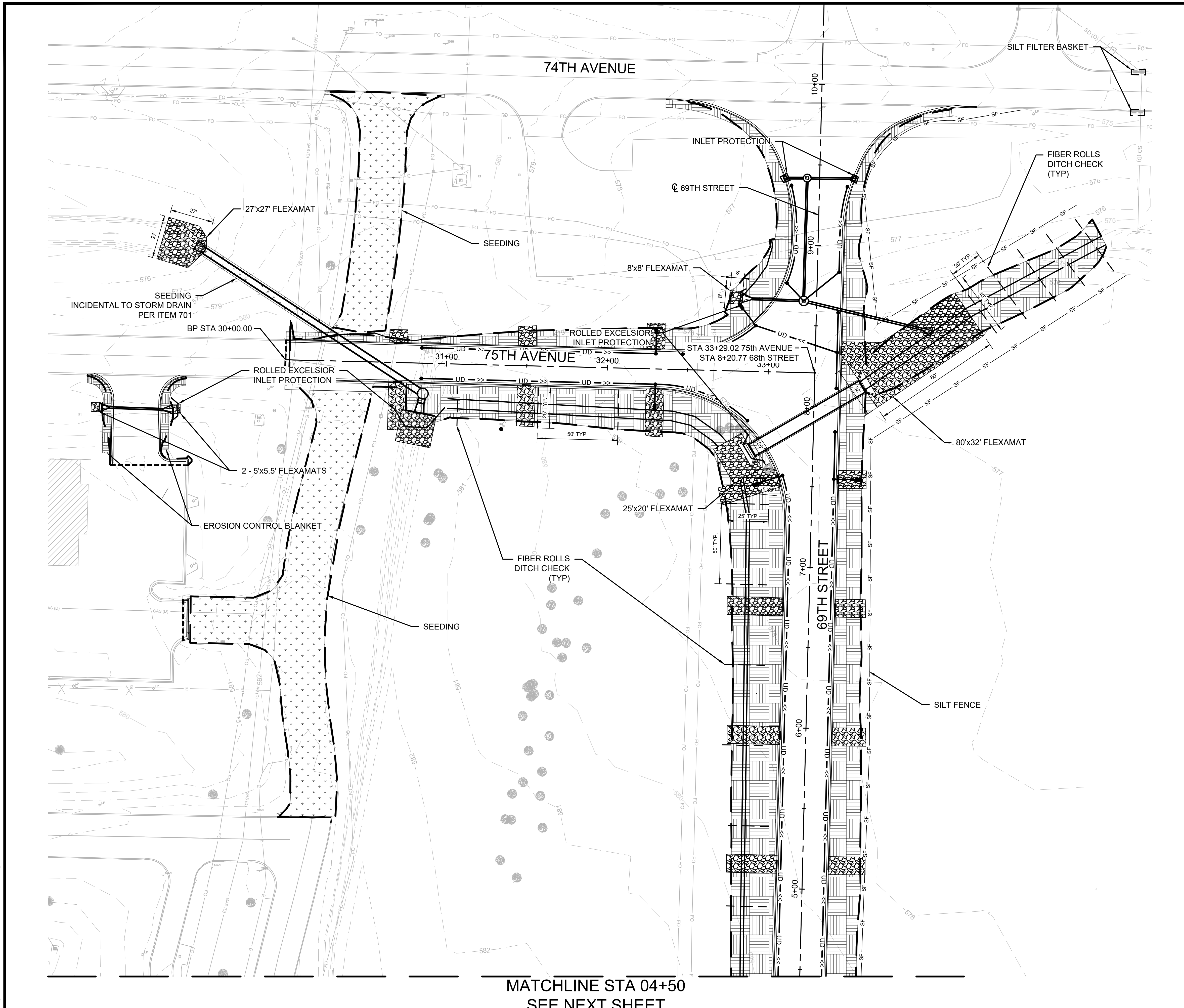
METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

EXISTING LC CABINET CONNETION

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. **37 of 61**



GENERAL NOTES

A. SEEDING & 4" OF TOPSOIL TO BE PLACED UNDER ALL EROSION CONTROL BLANKET.
B. SEEDING & 4" OF TOPSOIL TO BE PLACED UNDER ALL FLEXAMAT.
C. 4" OF TOPSOIL TO BE PLACED WITH ALL SEEDING.
D. SEEDING MIXTURE TO PRODUCE TALL FESCUE TURFGRASS OR OTHER GRASS NOT ATTRACTIVE TO HAZARDOUS SPECIES OF WILDLIFE REQUIRED. SEEDING MIXTURE SUBJECT TO APPROVAL BY ENGINEER. SEE ITEM 901 SPECIAL PROVISION FOR MORE INFORMATION.
E. FLEXAMAT TO BE FLEXAMAT PLUS OR EQUIVALENT SUBJECT TO APPROVAL BY ENGINEER.
F. SEE CURB CUT DETAIL ON MISC DETAILS SHEET FOR FLEXAMAT DIMENSIONS & QUANTITIES NOT SHOWN ON THIS SHEET.
G. TEMPORARY SEEDING REQUIRED PER ITEM 102.

LEGEND

- ROLLED EXCELSIOR
- FIBER ROLL DITCH CHECK
- SF — SILT FENCE
- EROSION CONTROL BLANKET, SEEDING, 4" TOPSOIL
- FLEXAMAT (OR APPROVED EQUIVALENT), SEEDING, 4" TOPSOIL
- SEEDING, 4" TOPSOIL
- INLET PROTECTION (SILT FILTER BASKET)
- INLET PROTECTION (HAY BALES)

60' 30' 0 60'

SCALE: 1" = 60'

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METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)

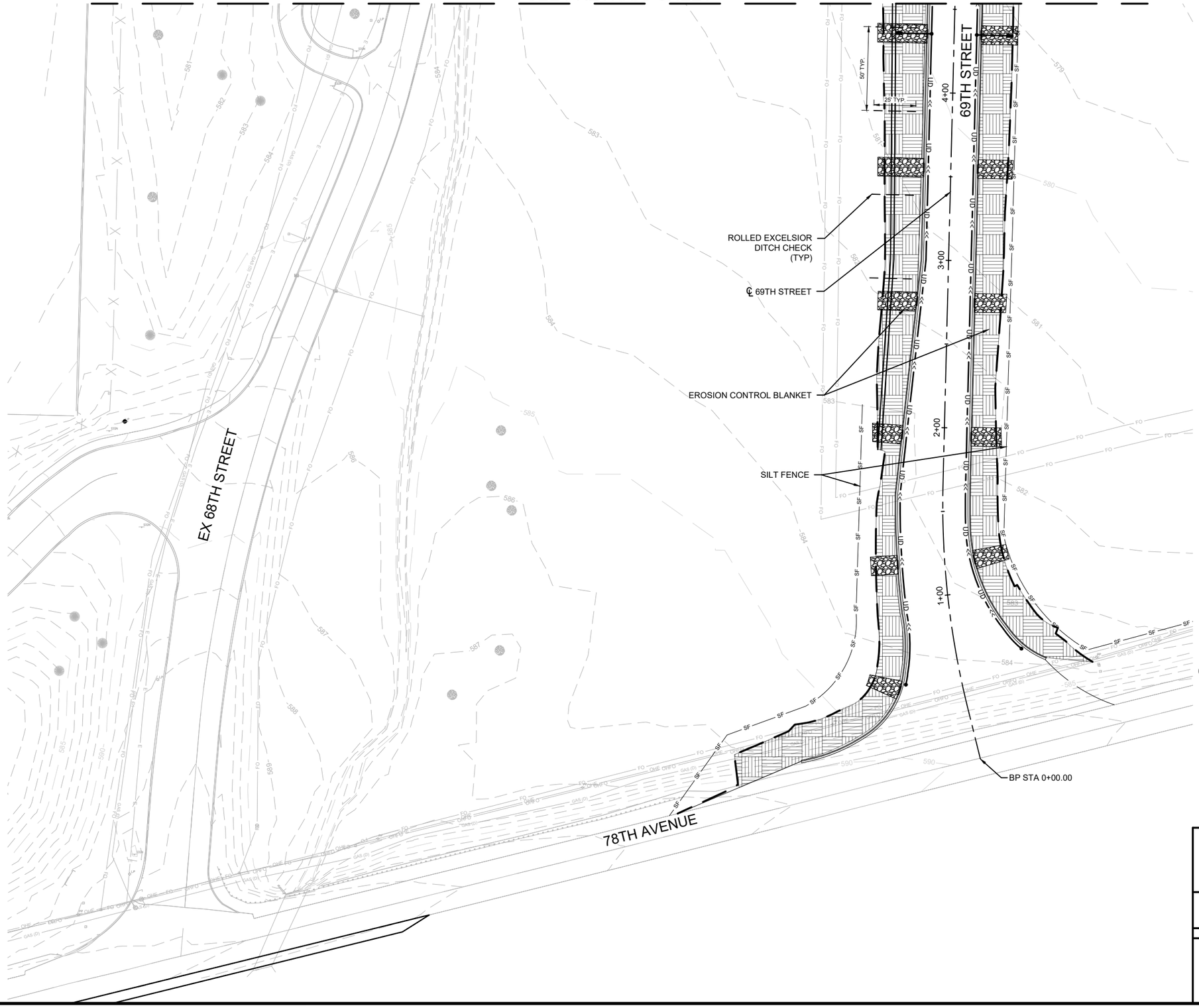
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

SWPPP & EROSION CONTROL PLAN (1 OF 2)

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260

MATCHLINE STA 04+50
SEE PREVIOUS SHEET



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SWPPP & EROSION CONTROL PLAN (2 OF 2)

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PROJECT NO. MLI-5023
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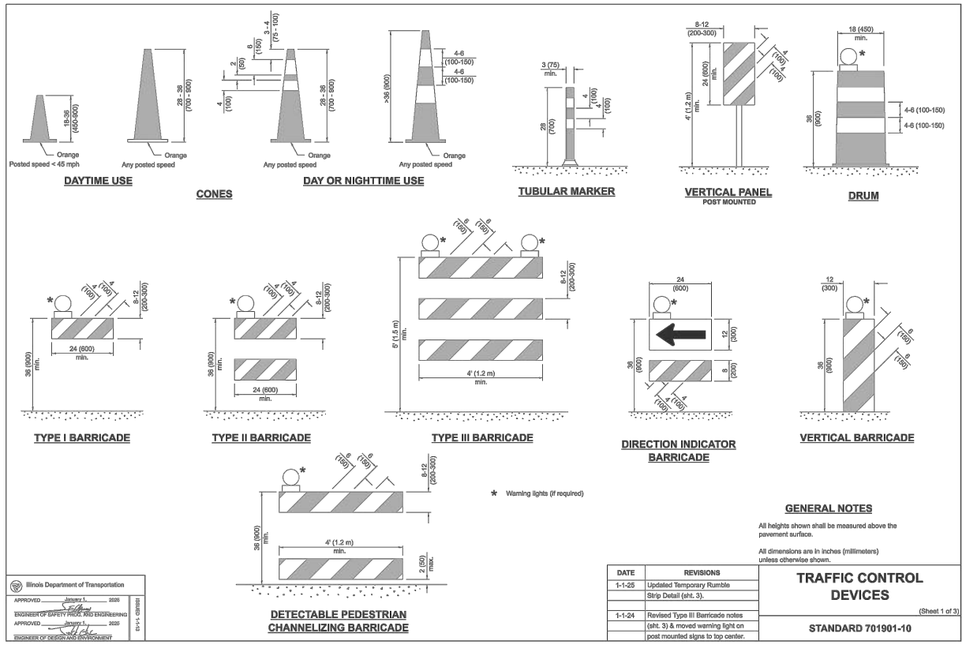

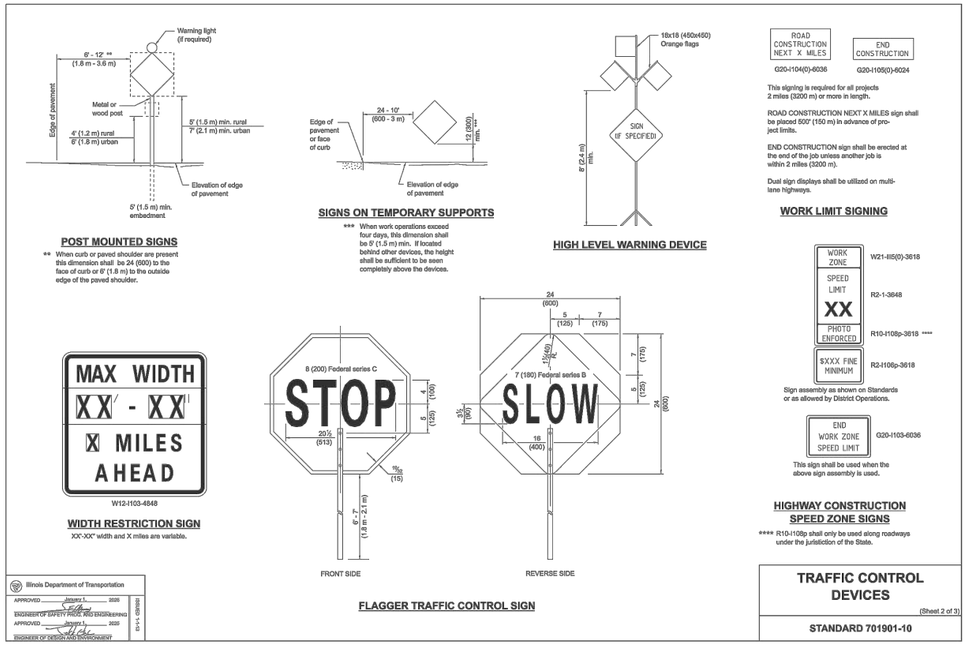

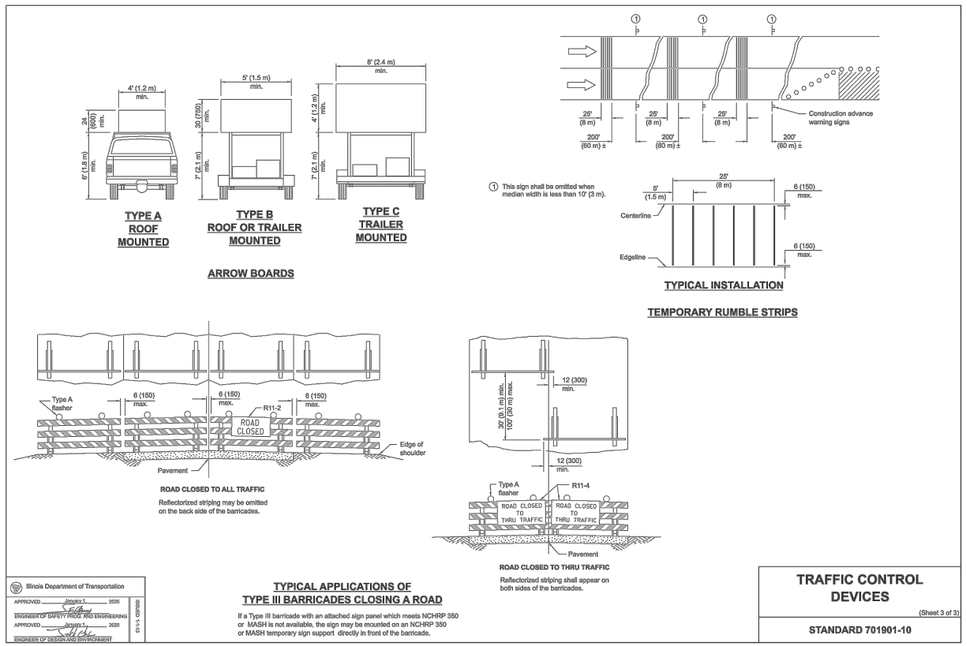

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REALIGN THE GENERAL AVIATION ENTRANCE ROAD

TCP DETAILS (1 OF 2)

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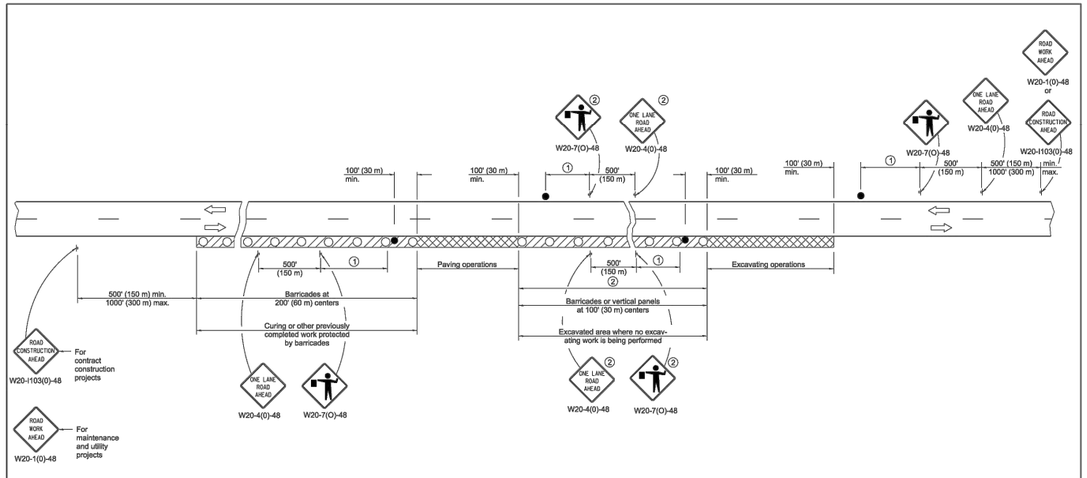
PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. **40 of 61**



SYMBOLS

- Work area
- Active Work area
- Sign
- Barricade, drum, or vertical panels
- Flagger with traffic control sign

① Minimum distance is 200' (60 m). Maximum distance to be determined by the Engineer but in no case to exceed the length of ½ day's normal operation or 2 miles (3200 m) whichever is less.

② Signs are not required if distance between work operations is less than 2000' (600 m) unless restricted sight distance exists.

GENERAL NOTES

This Standard is used where at any time, any vehicle, equipment, workers or their activities will encroach on the pavement during widening operations.

Two flaggers are required for each separate operation.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED January 1 2011
ENGINEER OF SAFETY ENGINEERING

APPROVED January 1 2011
ENGINEER OF DESIGN AND ENVIRONMENT

BDE 801 1-1-07

DATE	REVISIONS
1-1-11	Revised flagger signs.
1-1-09	Switched units to English (metric).
	Corrected sign No.'s.

LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING FOR SPEEDS ≥ 45 MPH

STANDARD 701326-04

CONSULTANTS
HDR
4620 E 53RD STREET
DAVENPORT, IA 52807-3620
(563) 293-7684

PREPARED FOR
QUAD CITIES INTERNATIONAL AIRPORT

NO.	DATE	DESCRIPTION	BY
		AS-BUILT INFORMATION	
		CONTRACTOR:	
		WORK STAKED BY:	DATE:
		INSPECTOR'S ACCEPTANCE BY:	DATE:
		FIELD VERIFICATION BY:	DATE:
		DRAWINGS CORRECTED BY:	DATE:

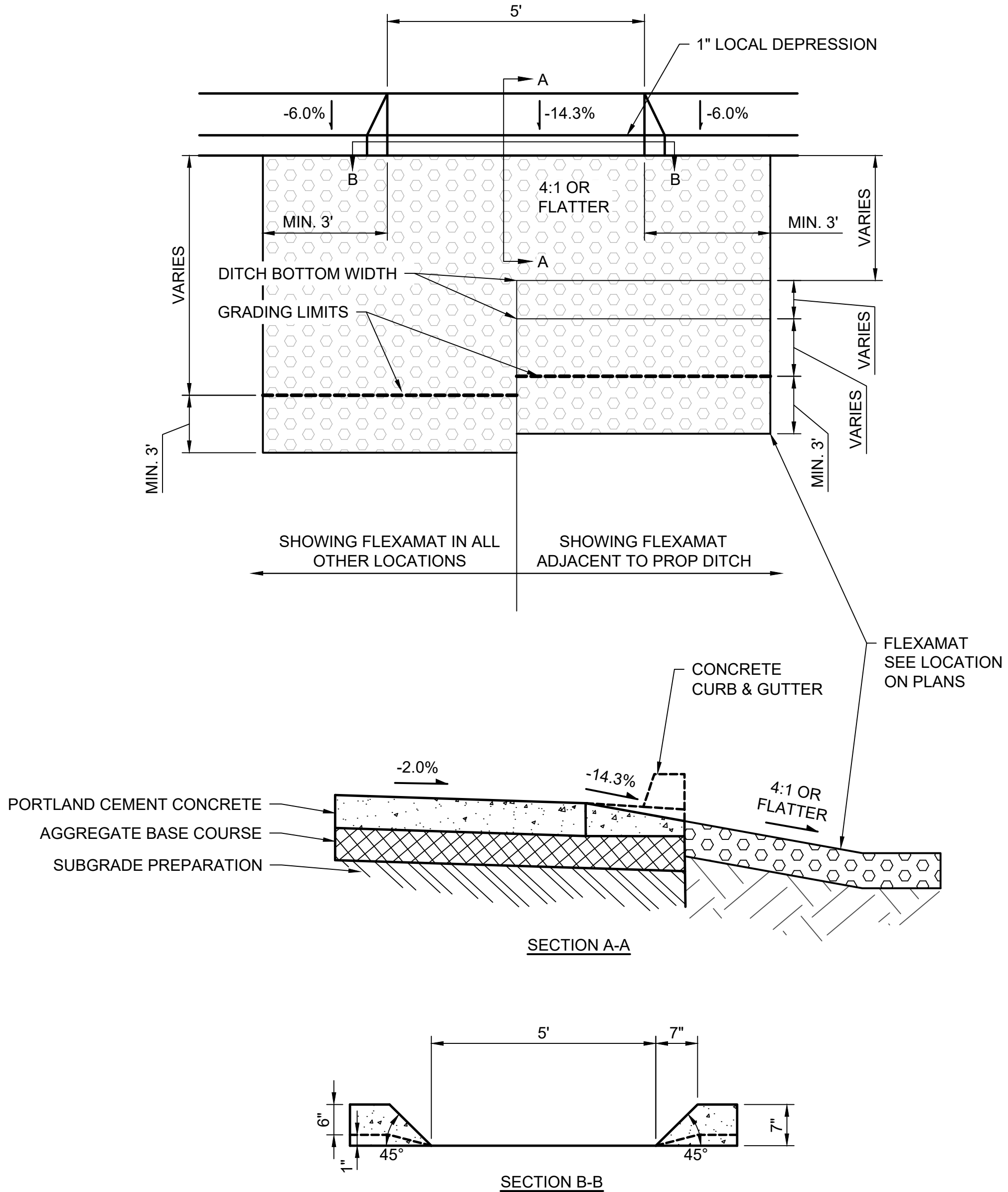
DESIGNED BY: MM
DRAWN BY: AJ
CHECKED BY: SM
DATE:

METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

TCP DETAILS (2 OF 2)

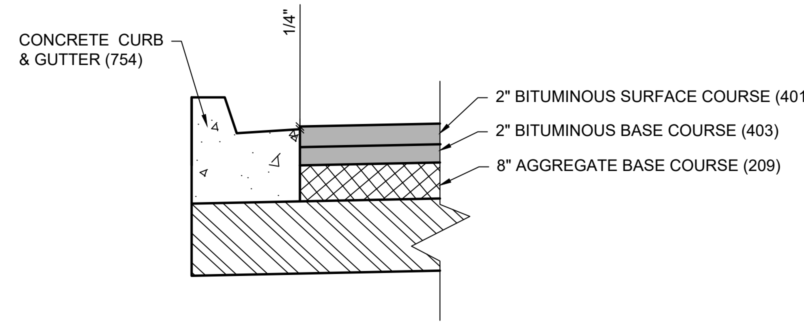
CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. **41 of 61**



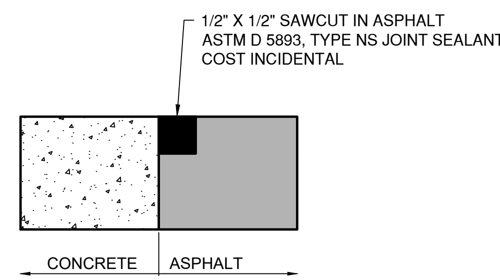
PROPOSED CURB CUT DETAIL

NOT TO SCALE



BITUMINOUS PAVEMENT EDGE DETAIL

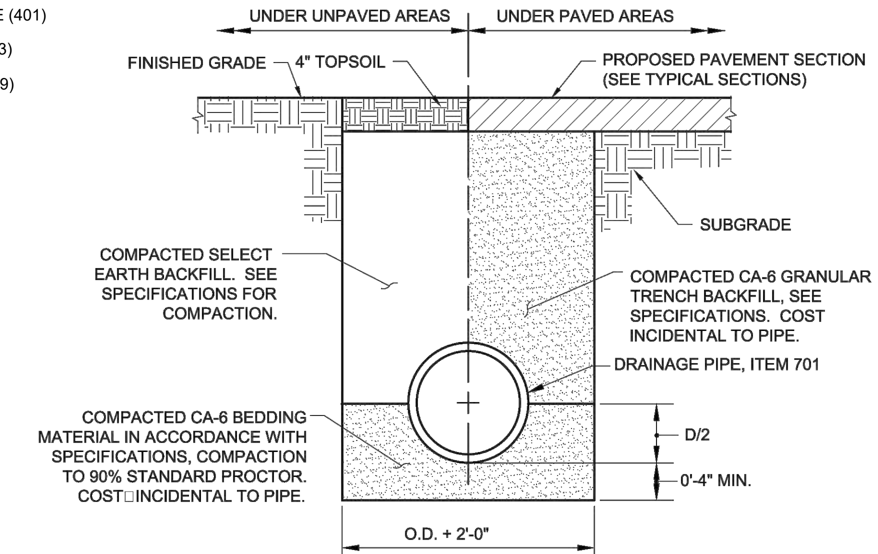
NOT TO SCALE



JOINTS SEALING AT CONCRETE-ASPHALT INTERFACE

NOT TO SCALE

NOTE: JOINT DIMENSIONS SHALL MEET MANUFACTURER'S RECOMMENDATION.

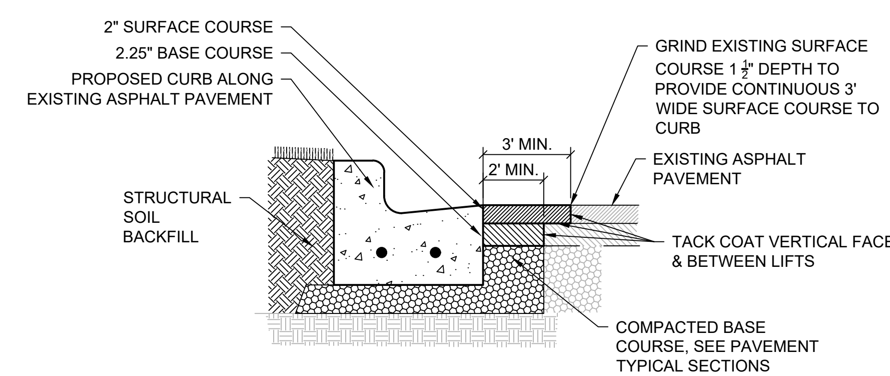


NOTES

1. UNSUITABLE MATERIAL ENCOUNTERED DURING PLACEMENT OF BEDDING SHALL BE REMOVED AND REPLACED.
2. WITHIN 3 FEET OF PAVED AREA, GRANULAR BACKFILL IS TO BE USED INSTEAD OF EARTH BACKFILL.
3. AT CONTRACTOR'S OPTION IDOT CONTROLLED LOW STRENGTH MATERIAL WITH A HIGH EARLY STRENGTH, "FLASH FILL", MAY BE USED INSTEAD OF GRANULAR TRENCH BACKFILL UNDER PAVEMENTS.

PIPE TRENCH DETAIL

NOT TO SCALE



PROPOSED ASPHALT PATCH ADJACENT TO PROPOSED CURB

NOT TO SCALE

NOTE: SEE PLANS FOR LOCATIONS.

CURB CUT LOCATION TABLE

STATION	CL	SIDE	FLEXAMAT QUANTITY (SY)	
			L	R
0+50	69TH	L	19.8	–
1+20	69TH	L & R	20.0	22.8
1+95	69TH	L & R	21.0	22.6
2+75	69TH	L & R	31.9	23.8
3+55	69TH	L & R	34.4	26.0
4+35	69TH	L & R	37.0	27.3
5+15	69TH	L & R	39.0	28.3
5+95	69TH	L & R	41.0	26.6
6+75	69TH	L & R	43.3	23.6
7+55	69TH	L & R	51.1	21.8
8+35	69TH	R	–	22.6
30+70	75TH	L & R	10.0	30.9
31+50	75TH	L & R	22.7	31.1
32+30	75TH	L & R	19.8	36.3

CONSULTANTS

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(563) 293-7684

PREPARED FOR

QUAD CITIES INTERNATIONAL AIRPORT

NO.	DATE	BY	DESCRIPTION

AS-BUILT INFORMATION
CONTRACTOR:
WORK STAKED BY: DATE:
INSPECTOR'S ACCEPTANCE BY: DATE:
FIELD VERIFICATION BY: DATE:
DRAWINGS CORRECTED BY: DATE:

DESIGNED BY: MM
DRAWN BY: AJ
CHECKED BY: SM
DATE:

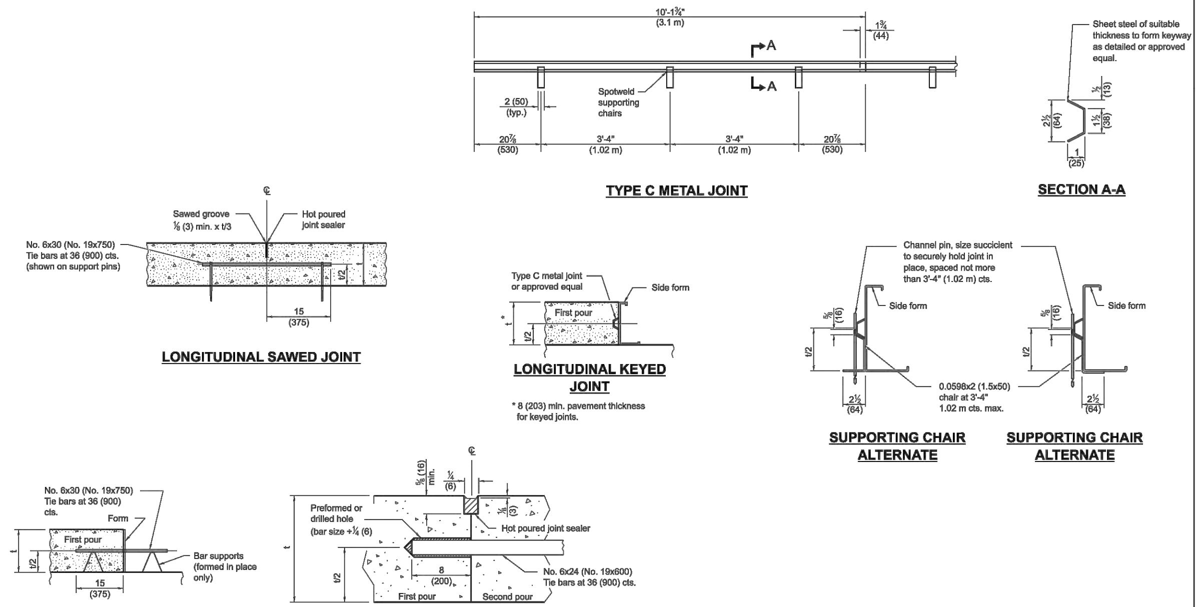
METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)

REALIGN THE GENERAL AVIATION ENTRANCE ROAD

ROADWAY DETAILS (1 OF 3)

CLIENT APPROVAL | CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. 42 of 61



GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in inches (millimeters) unless otherwise shown.

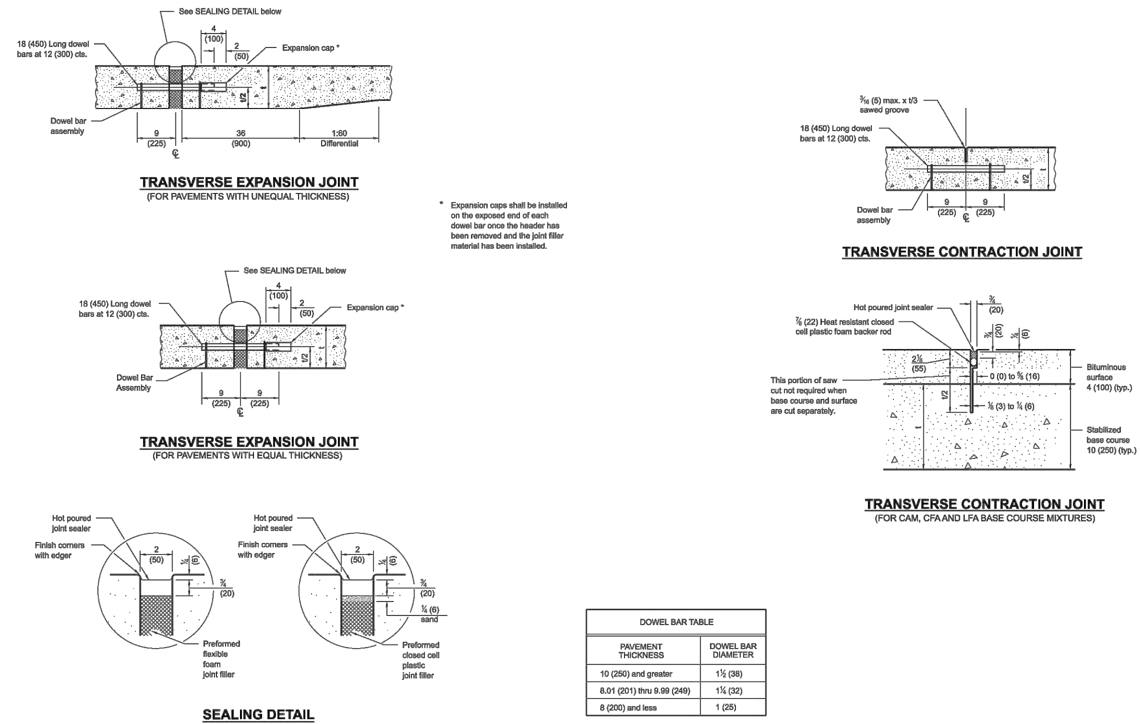
Illinois Department of Transportation
APPROVED January 1, 2022 ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2022 ENGINEER OF DESIGN AND ENVIRONMENT

DATE	REVISIONS
1-1-22	Revised DOWEL BAR TABLE on Sheet 2.
1-1-18	Changed tie bar spacing to 36 (900) cts. Revised DOWEL BAR TABLE.

PAVEMENT JOINTS

(Sheet 1 of 2)

STANDARD 420001-10



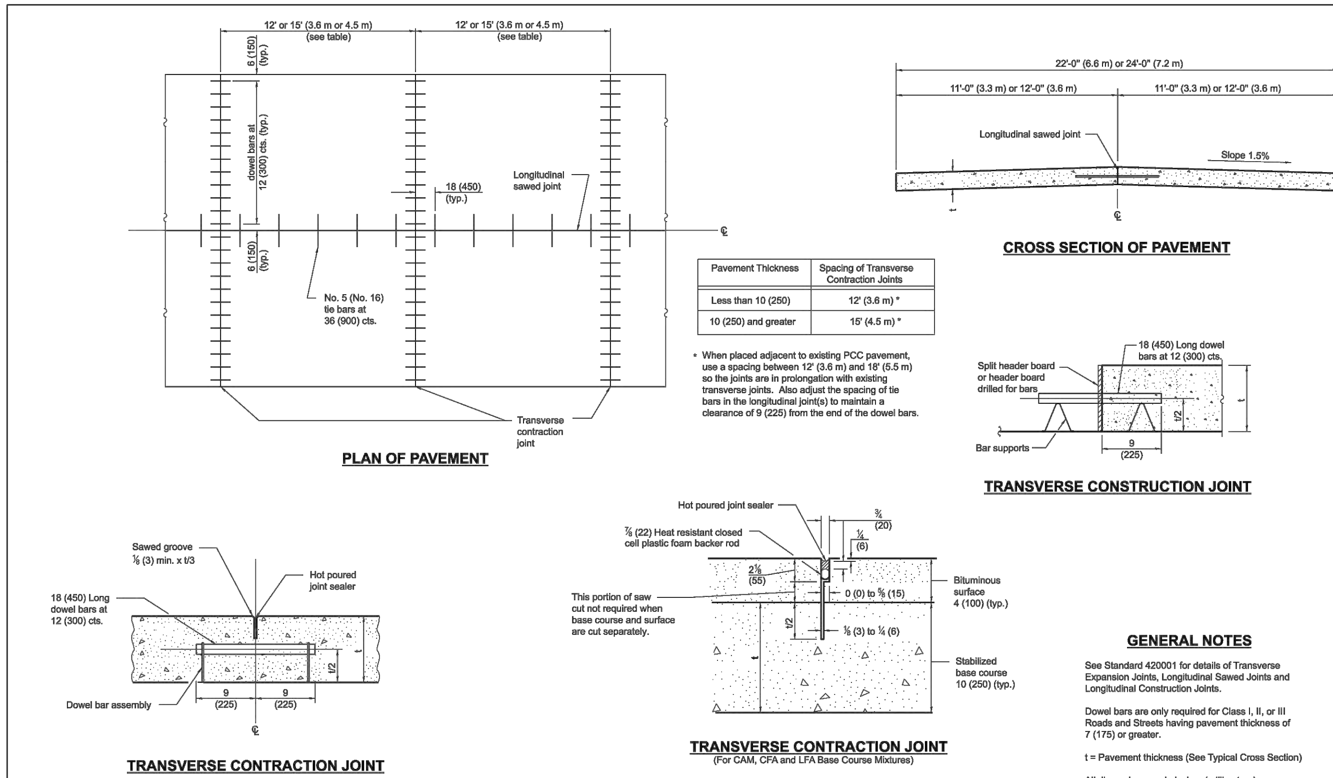
DOWEL BAR TABLE	
PAVEMENT THICKNESS	DOWEL BAR DIAMETER
10 (250) and greater	1½ (38)
8.01 (201) thru 9.99 (249)	1¼ (32)
8 (200) and less	1 (25)

Illinois Department of Transportation
APPROVED January 1, 2022 ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2022 ENGINEER OF DESIGN AND ENVIRONMENT

PAVEMENT JOINTS

(Sheet 2 of 2)

STANDARD 420001-10



Pavement Thickness	Spacing of Transverse Contraction Joints
Less than 10 (250)	12' (3.6 m) *
10 (250) and greater	15' (4.5 m) *

* When placed adjacent to existing PCC pavement, use a spacing between 12' (3.6 m) and 18' (5.5 m) so the joints are in prolongation with existing transverse joints. Also adjust the spacing of tie bars in the longitudinal joint(s) to maintain a clearance of 9 (225) from the end of the dowel bars.

GENERAL NOTES

See Standard 420001 for details of Transverse Expansion Joints, Longitudinal Sawed Joints and Longitudinal Construction Joints.

Dowel bars are only required for Class I, II, or III Roads and Streets having pavement thickness of 7 (175) or greater.

t = Pavement thickness (See Typical Cross Section)

All dimensions are in inches (millimeters) unless otherwise shown.

DOWEL BAR TABLE

PAVEMENT THICKNESS	DOWEL BAR DIAMETER
10 (250) and greater	1½ (38)
8.01 (201) to 9.99 (249)	1¼ (32)
8 (200) and less	1 (25)

Illinois Department of Transportation
APPROVED January 1, 2022 ENGINEER OF LOCAL ROADS AND STREETS
APPROVED January 1, 2022 ENGINEER OF DESIGN AND ENVIRONMENT

DATE	REVISIONS
1-1-22	Revised spacing of transverse contraction joints, dowel bar table and header board callout.
1-1-18	Revised dowel and tie bar sizes. Increased tie bar spacing. Eliminated skewed joint.

PORTLAND CEMENT CONCRETE PAVEMENT (NONREINFORCED)

STANDARD B.L.R. 14-13

CONSULTANTS
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PREPARED FOR
QUAD CITIES INTERNATIONAL AIRPORT

NO.	DATE	DESCRIPTION	BY

AS-BUILT INFORMATION
CONTRACTOR: DATE:
WORK STAKED BY: DATE:
INSPECTOR'S ACCEPTANCE BY: DATE:
FIELD VERIFICATION BY: DATE:
DRAWINGS CORRECTED BY: DATE:

DESIGNED BY: MM
DRAWN BY: AJ
CHECKED BY: SM
DATE:

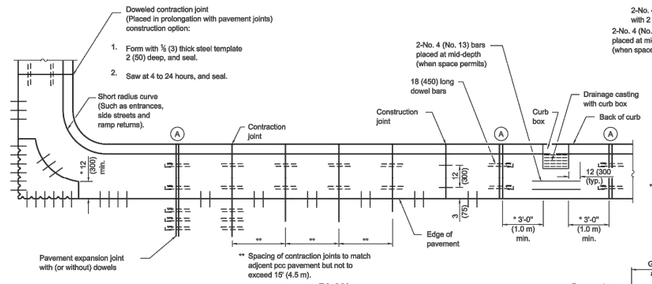
METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)

REALIGN THE GENERAL AVIATION ENTRANCE ROAD

ROADWAY DETAILS (2 OF 3)

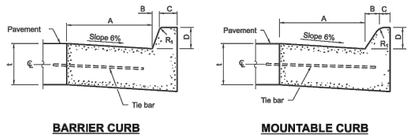
CLIENT APPROVAL | CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. 43 of 61



PLAN

ADJACENT TO PCC PAVEMENT OR PCC BASE COURSE



BARRIER CURB

MOUNTABLE CURB

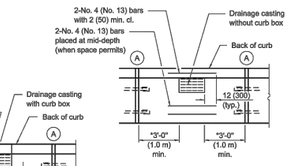
TABLE OF DIMENSIONS
BARRIER CURB

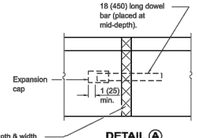
TYPE	A	B	C	D	R_t
B-6.06 * (B-15.15)	6 (150)	1 (25)	6 (150)	6 (150)	1 (25)
B-6.12 (B-15.3)	12 (300)	1 (25)	6 (150)	6 (150)	1 (25)
B-6.18 (B-15.45)	18 (450)	1 (25)	6 (150)	6 (150)	1 (25)
B-6.24 (B-15.60)	24 (600)	1 (25)	6 (150)	6 (150)	1 (25)
B-9.12 (B-22.30)	12 (300)	2 (50)	5 (125)	9 (225)	1 (25)
B-9.18 (B-22.45)	18 (450)	2 (50)	5 (125)	9 (225)	1 (25)
B-9.24 (B-22.60)	24 (600)	2 (50)	5 (125)	9 (225)	1 (25)

* For corner islands only.

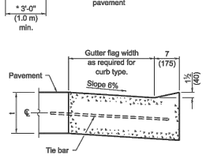
TABLE OF DIMENSIONS
MOUNTABLE CURB

TYPE	A	B	C	D	R_t	R_2
M-2.06 (M-5.15)	6 (150)	2 (50)	4 (100)	2 (50)	3 (75)	2 (50)
M-2.12 (M-5.30)	12 (300)	2 (50)	4 (100)	2 (50)	3 (75)	2 (50)
M-4.06 (M-10.15)	6 (150)	4 (100)	3 (75)	4 (100)	3 (75)	NA
M-4.12 (M-10.30)	12 (300)	4 (100)	3 (75)	4 (100)	3 (75)	NA
M-4.18 (M-10.45)	18 (450)	4 (100)	3 (75)	4 (100)	3 (75)	NA
M-4.24 (M-10.60)	24 (600)	4 (100)	3 (75)	4 (100)	3 (75)	NA
M-6.06 (M-15.15)	6 (150)	6 (150)	2 (50)	6 (150)	2 (50)	NA
M-6.12 (M-15.30)	12 (300)	6 (150)	2 (50)	6 (150)	2 (50)	NA
M-6.18 (M-15.45)	18 (450)	6 (150)	2 (50)	6 (150)	2 (50)	NA
M-6.24 (M-15.60)	24 (600)	6 (150)	2 (50)	6 (150)	2 (50)	NA

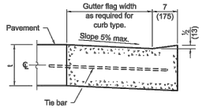




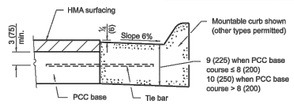
DETAIL Ⓐ EXPANSION JOINT



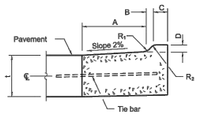
DEPRESSED CURB (TYPICAL)



DEPRESSED CURB ADJACENT TO CURB RAMP ACCESSIBLE TO THE DISABLED



ADJACENT TO PCC BASE COURSE WITH HMA SURFACING



M-2.06 (M-5.15) and M-2.12 (M-5.30)

GENERAL NOTES

The bottom slope of combination curb and gutter constructed adjacent to pcc pavement shall be the same slope as the subbase or 6% when subbase is omitted.

t = Thickness of pavement.

Longitudinal joint tie bars shall be No. 6 (No. 19) at 36 (900) centers in accordance with details for longitudinal construction joint shown on Standard 420001.

A minimum clearance of 2 (50) between the end of the tie bar and the back of the curb shall be maintained.

The dowel bars shown in contraction joints will only be required for monolithic construction.

See Standard 606301 for details of corner islands.

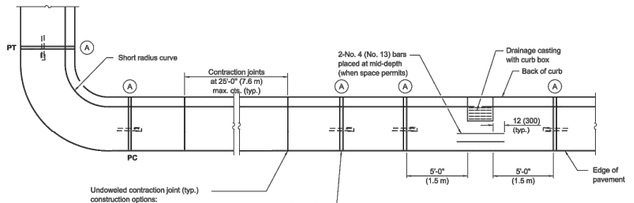
All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-22	Revised contract joint spacing
	adjacent to pcc pavement.
1-1-18	Revised General Note for tie bar
	spacing to 36 (900) cts.

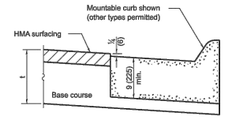
CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER (Sheet 1 of 2)

STANDARD 606001-08

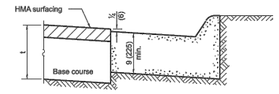
Illinois Department of Transportation
APPROVED January 1, 2022 — ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2022 — ENGINEER OF DESIGN AND ENVIRONMENT
BP1-1 02/01/22



PLAN



ON DISTURBED SUBGRADE



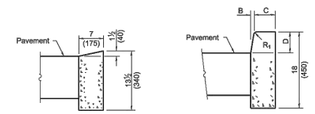
ON UNDISTURBED SUBGRADE

ADJACENT TO FLEXIBLE PAVEMENT

Illinois Department of Transportation
APPROVED January 1, 2022 — ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2022 — ENGINEER OF DESIGN AND ENVIRONMENT
BP1-1 02/01/22

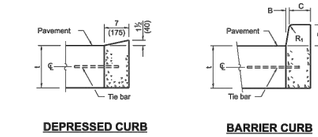
CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER (Sheet 2 of 2)

STANDARD 606001-08



DEPRESSED CURB **BARRIER CURB**

ADJACENT TO FLEXIBLE PAVEMENT



DEPRESSED CURB **BARRIER CURB**

ADJACENT TO PCC PAVEMENT OR PCC BASE COURSE

CONCRETE CURB TYPE B

CONSULTANTS
HDR
4620 E 53RD STREET
DAVENPORT, IA 52807-3620
(563) 293-7684

PREPARED FOR
QUAD CITIES INTERNATIONAL AIRPORT

NO.	DATE	DESCRIPTION	BY
		AS-BUILT INFORMATION	
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		FIELD VERIFICATION BY: DATE:	
		DRAWINGS CORRECTED BY: DATE:	

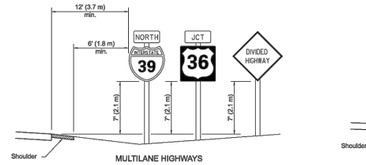
DESIGNED BY: MM
DRAWN BY: AJ
CHECKED BY: SM
DATE:

METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND
COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

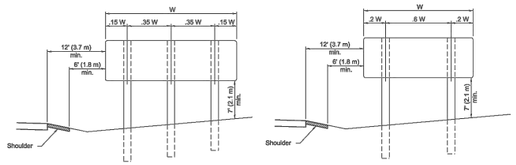
ROADWAY DETAILS (3 OF 3)

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. **44 of 61**



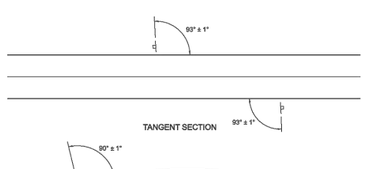
MULTILANE HIGHWAYS



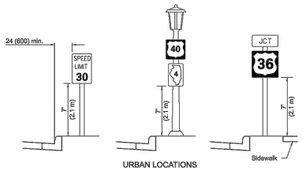
POST SPACING FOR NON-FREEWAY SIGN PANELS

* In any area where parking is likely to occur or where there are obstructions to view or where signs are located over sidewalks, the height shall be at least 7' (2.1 m).

TWO LANE RURAL HIGHWAYS



GROUND MOUNT SIGN POSITIONING



URBAN LOCATIONS

TYPICAL INSTALLATIONS

Signs in any area shall be erected to a uniform height above the edge of the pavement.

Illinois Department of Transportation

APPROVED _____ January 1, 2014
ENGINEER OF OPERATIONS

APPROVED _____ January 1, 2014
ENGINEER OF POLICY AND ENVIRONMENT

STANDARD 720006-04

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-14	Added shoulder and slopes. Changed sign distances from roadway and shoulder.
1-1-12	Revised sign elevation for multilane highways. Revised sign elevation and distance to curb for rural location.

SIGN PANEL ERECTION DETAILS

STANDARD 720006-04

CONSULTANTS
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PREPARED FOR
QUAD CITIES INTERNATIONAL AIRPORT

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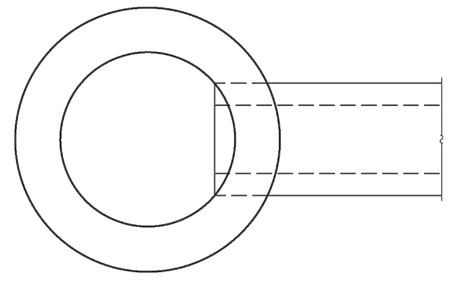
DESIGNED BY: MM
DRAWN BY: AJ
CHECKED BY: SM
DATE:

METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

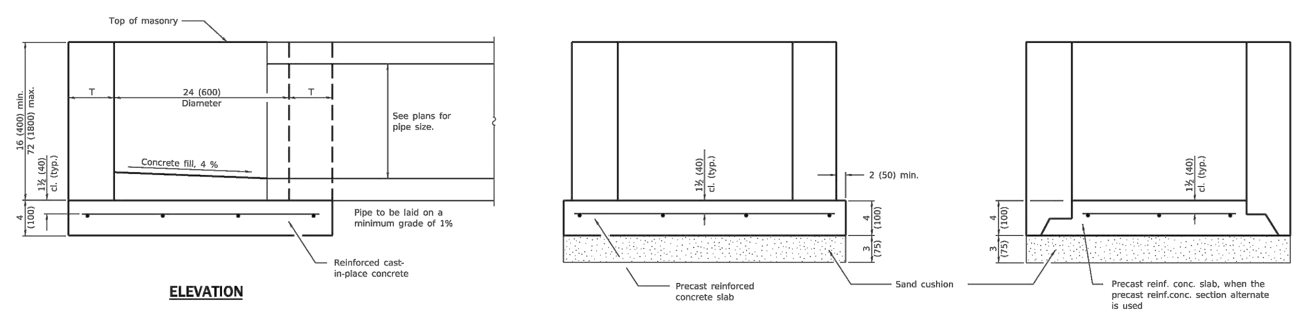
PAVEMENT MARKING & SIGNING DETAILS

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. **45 of 61**



ALTERNATE MATERIALS FOR WALLS	T
BRICK MASONRY	8 (200)
CAST-IN-PLACE CONCRETE	6 (150)
CONCRETE MASONRY UNIT	5 (125)
PRECAST REINFORCED CONCRETE SECTION	3 (75)



GENERAL NOTES

Bottom slabs shall be reinforced with a minimum of 0.24 sq. in./ft. (510 sq. mm/m) in both directions with a maximum spacing of 10 (250).

Bottom slabs may be connected to the riser as determined by the fabricator; however, only a single row of reinforcement around the perimeter may be utilized.

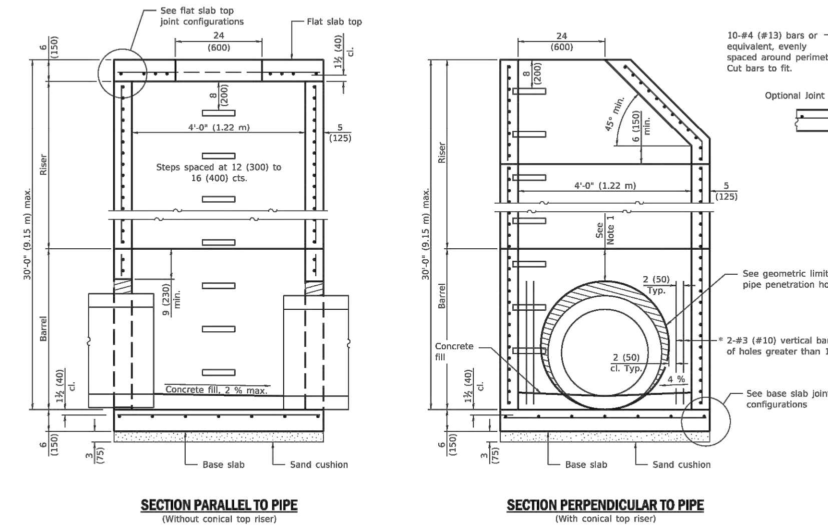
All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
PASSED January 1, 2014
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2014
ENGINEER OF DESIGN AND ENVIRONMENT

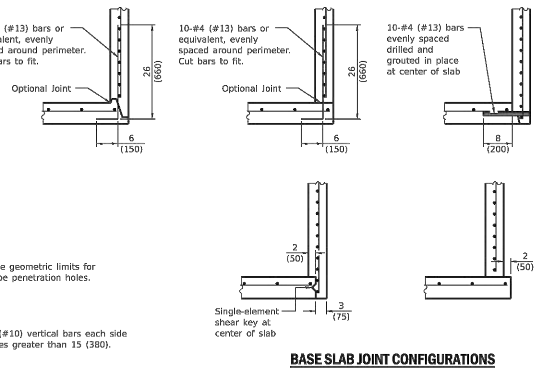
DATE	REVISIONS
1-1-14	Increased height to
	72 (1800) maximum.
1-1-11	Detailed rein. in slabs.
	Added max. limit to height.
	Added general notes.

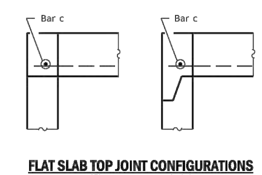
INLET - TYPE A

STANDARD 602301-04



* As an alternate, the barrel wall reinforcement may be reduced to riser wall reinforcement with #3 (#10) bars placed around the pipe penetration holes as shown. This option may be utilized when the pipe penetration holes are formed as opposed to cored.





GEOMETRIC LIMITS FOR PIPE PENETRATION HOLES

Note 1: A minimum of 9 (230) of monolithic reinforced concrete shall be maintained above pipe penetration holes > 24 (600).

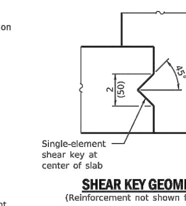
Note 2: A minimum 12 (300) inside arc length of reinforced concrete shall be maintained between pipe penetration holes > 15 (380).

Note 3: A maximum of 60 percent of the inside perimeter of the reinforced concrete manhole walls may be removed.

Note 4: Horizontal joints that intersect pipe penetration holes > 15 (380) shall have one joint splice for every location around the perimeter of the joint where the inside arc length between pipe penetration holes is < 24 (600). See joint splice detail.

Note 5: The recommended pipe penetration hole is equal to the O.D. of the pipe plus 4 (100).

Note 6: Only pipe penetration holes ≤ 15 (380) are allowed in riser sections.



GENERAL NOTES

The manufacturer shall ensure that all precast manhole sections are additionally reinforced where required to resist damage from handling, shipping and installation stresses.

Lifting holes shall be located in the sections as per the manufacturer's recommendations.

See Standard 602701 for details of manhole steps.

All dimensions are in inches (millimeters) unless otherwise noted.

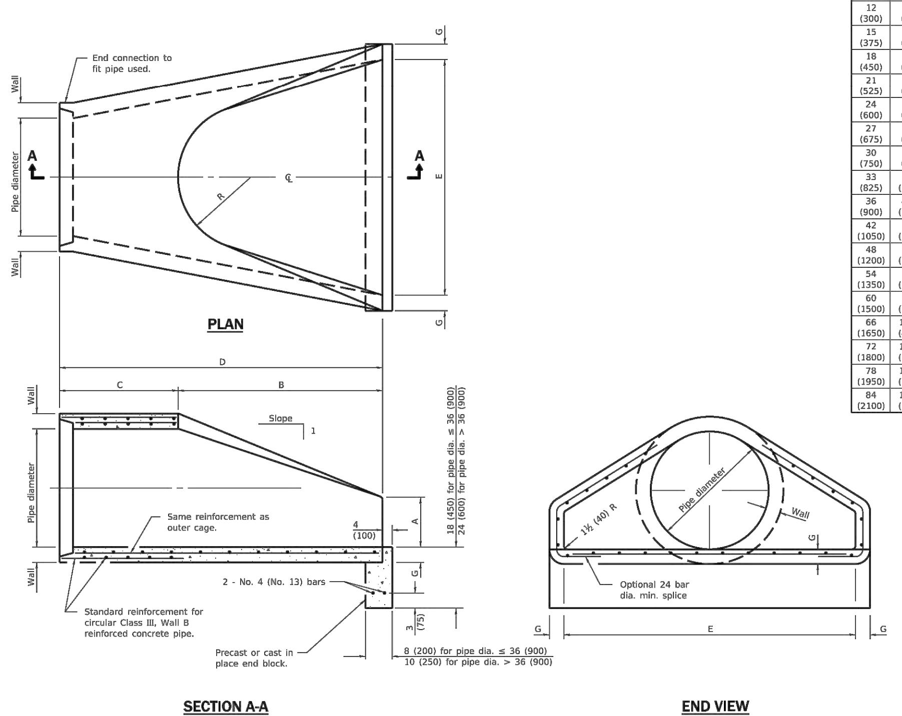
Illinois Department of Transportation
PASSED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

DATE	REVISIONS
1-1-21	Revised Note 1 and lifting hole
	general note.
3-1-19	Moved wall reinforcement from
	inside face to middle.

PRECAST MANHOLE TYPE A 4' (1.22 m) DIAMETER

(Sheet 1 of 2)

STANDARD 602401-07



PIPE DIA.	APPROX. QTY. lbs. (kg)	WALL	A	B	C	D	E	G	R	APPROX. SLOPE
12 (300)	530 (240)	2 (51)	4 (102)	24 (610)	4'-0⅞" (1.241 m)	6'-0⅞" (1.851 m)	24 (610)	2 (51)	9 (229)	1:2.4
15 (375)	740 (335)	2¼ (57)	6 (152)	27 (686)	3'-10" (1.168 m)	6'-1" (1.854 m)	30 (762)	2¼ (57)	11 (280)	1:2.4
18 (450)	990 (450)	2½ (64)	9 (229)	27 (686)	3'-10" (1.168 m)	6'-1" (1.854 m)	36 (914)	2½ (64)	12 (305)	1:2.4
21 (525)	1280 (580)	2¾ (70)	9 (229)	35 (889)	38 (965)	6'-1" (1.854 m)	3'-6" (1.067 m)	2¾ (70)	13 (330)	1:2.4
24 (600)	1520 (690)	3 (76)	9½ (241)	3'-7½" (1.105 m)	30 (762)	6'-1½" (1.867 m)	4'-0" (1.219 m)	3 (76)	14 (356)	1:2.5
27 (675)	1930 (875)	3¼ (83)	10½ (267)	4'-0" (1.219 m)	25½ (648)	6'-1½" (1.867 m)	4'-6" (1.372 m)	3¼ (83)	14½ (368)	1:2.4
30 (750)	2190 (995)	3½ (89)	12 (305)	4'-6" (1.375 m)	19¾ (502)	6'-1¾" (1.874 m)	5'-0" (1.524 m)	3½ (89)	15 (381)	1:2.5
33 (825)	3200 (1450)	3¾ (95)	13½ (343)	4'-10½" (1.486 m)	39¼ (997)	8'-1¾" (2.483 m)	5'-6" (1.676 m)	3¾ (95)	17½ (445)	1:2.5
36 (900)	4100 (1860)	4 (102)	15 (381)	5'-3" (1.6 m)	34¾ (883)	8'-1¾" (2.483 m)	6'-0" (1.829 m)	4 (102)	20 (508)	1:2.5
42 (1050)	5380 (2440)	4½ (114)	21 (533)	5'-3" (1.6 m)	35 (889)	8'-2" (2.489 m)	6'-6" (1.981 m)	4½ (114)	22 (559)	1:2.5
48 (1200)	6550 (2970)	5 (127)	24 (610)	6'-0" (1.829 m)	26 (660)	8'-2" (2.489 m)	7'-0" (2.134 m)	5 (127)	22 (559)	1:2.5
54 (1350)	8240 (3740)	5½ (140)	27 (686)	5'-5" (1.651 m)	35 (889)	8'-4" (2.54 m)	7'-6" (2.286 m)	5½ (140)	24 (610)	1:2.0
60 (1500)	8730 (3960)	6 (152)	35 (889)	5'-0" (1.524 m)	39 (991)	8'-3" (2.515 m)	8'-0" (2.438 m)	5 (127)	*	1:1.9
66 (1650)	10710 (4860)	6½ (165)	30 (762)	6'-0" (1.829 m)	27 (686)	8'-3" (2.515 m)	8'-6" (2.591 m)	5½ (140)	*	1:1.7
72 (1800)	12520 (5680)	7 (178)	36 (914)	6'-6" (1.981 m)	21 (533)	8'-3" (2.514 m)	9'-0" (2.743 m)	6 (152	*	1:1.8
78 (1950)	14770 (6700)	7½ (191)	36 (914)	7'-6" (2.286 m)	21 (533)	9'-3" (2.819 m)	9'-6" (2.896 m)	6½ (165)	*	1:1.8
84 (2100)	18160 (8240)	8 (203)	36 (914)	7'-6½" (2.299 m)	21 (533)	9'-3½" (2.832 m)	10'-0" (3.048 m)	6½ (165)	*	1:1.6

* Radius as furnished by manufacturer

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
APPROVED January 1, 2011
ENGINEER OF BRIDGES AND STRUCTURES
APPROVED January 1, 2011
ENGINEER OF DESIGN AND ENVIRONMENT

DATE	REVISIONS
1-1-11	Clarified ref. to pipe dia.
	on Section A-A. Changed
	'inner' to 'outer' cage ref.
1-1-09	Switched units to
	English (metric).

PRECAST REINFORCED CONCRETE FLARED END SECTION

STANDARD 542301-03

CONSULTANTS

HDR
4620 E 53RD STREET
DAVENPORT, IA 52807-3620
(563) 293-7684

PREPARED FOR

QUAD CITIES INTERNATIONAL AIRPORT

NO.	DATE	DESCRIPTION	BY

AS-BUILT INFORMATION
CONTRACTOR:
WORK STAKED BY: DATE:
INSPECTOR'S ACCEPTANCE BY: DATE:
FIELD VERIFICATION BY: DATE:
DRAWINGS CORRECTED BY: DATE:

DESIGNED BY: MM
DRAWN BY: AJ
CHECKED BY: SM
DATE:

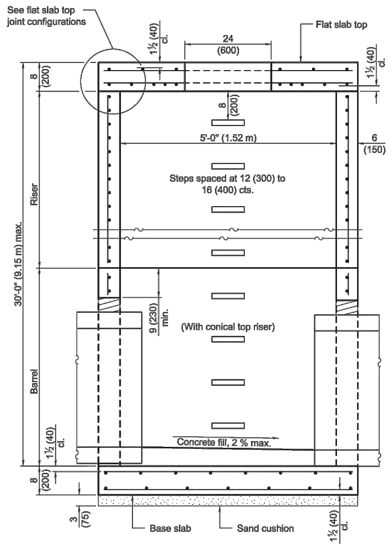
METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)

REALIGN THE GENERAL AVIATION ENTRANCE ROAD

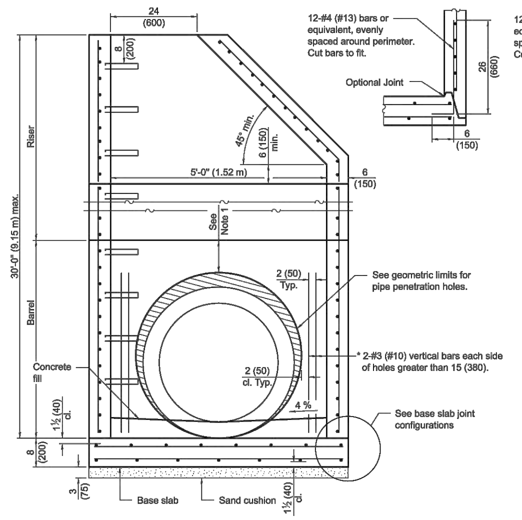
DRAINAGE DETAILS (1 OF 5)

CLIENT APPROVAL | CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. 46 of 61

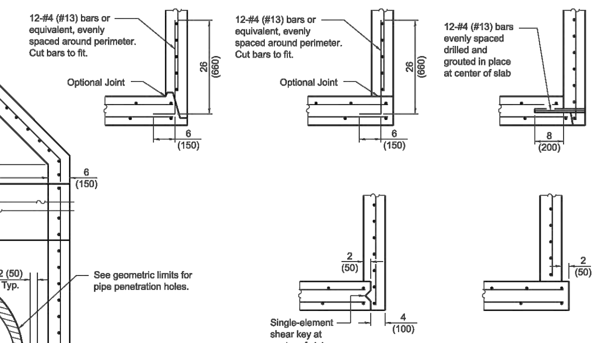


SECTION PARALLEL TO PIPE
(Without conical top riser)

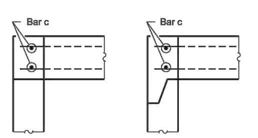


SECTION PERPENDICULAR TO PIPE
(With conical top riser)

* As an alternate, the barrel wall reinforcement may be reduced to riser wall reinforcement with #3 (#10) bars placed around the pipe penetration holes as shown. This option may be utilized when the pipe penetration holes are formed as opposed to cored.



BASE SLAB JOINT CONFIGURATIONS



FLAT SLAB TOP JOINT CONFIGURATIONS
(Shown at access hole)

GEOMETRIC LIMITS FOR PIPE PENETRATION HOLES

Note 1: A minimum of 9 (230) of monolithic reinforced concrete shall be maintained above pipe penetration holes > 32 (810).

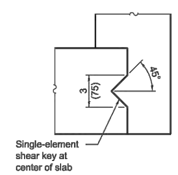
Note 2: A minimum 12 (300) inside arc length of reinforced concrete shall be maintained between pipe penetration holes > 15 (380).

Note 3: A maximum of 60 percent of the inside perimeter of the reinforced concrete manhole walls may be removed.

Note 4: Horizontal joints that intersect pipe penetration holes > 15 (380) shall have one joint splice for every location around the perimeter of the joint where the inside arc length between pipe penetration holes is < 24 (600). See joint splice detail.

Note 5: The recommended pipe penetration hole is equal to the O.D. of the pipe plus 4 (100).

Note 6: Only pipe penetration holes ≤ 15 (380) are allowed in riser sections.



SHEAR KEY GEOMETRY
(Reinforcement not shown for clarity)

GENERAL NOTES

The manufacturer shall ensure that all precast manhole sections are additionally reinforced where required to resist damage from handling, shipping and installation stresses.

Lifting holes shall be located in the sections as per the manufacturer's recommendations.

See Standard 602701 for details of manhole steps.

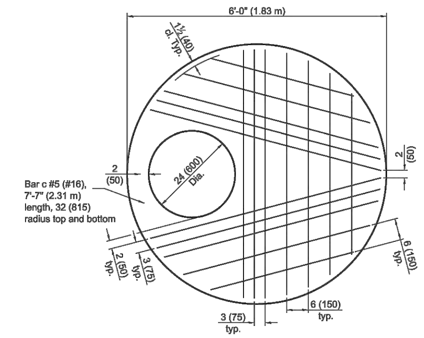
All dimensions are in inches (millimeters) unless otherwise noted.

DATE	REVISIONS
1-1-21	Revised Note 1 and lifting hole general note.
3-1-19	Moved wall reinforcement from inside face to middle.

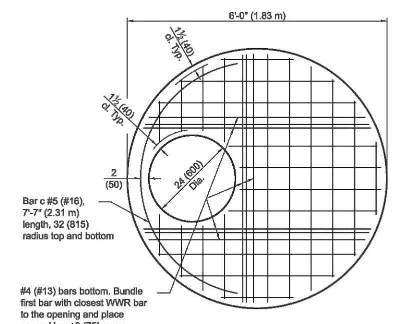
Illinois Department of Transportation
APPROVED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

PRECAST MANHOLE TYPE A 5' (1.52 m) DIAMETER (Sheet 1 of 2)

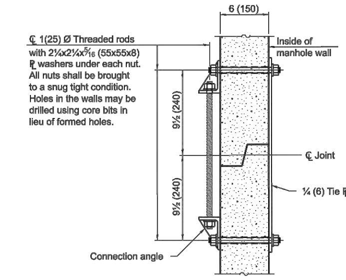
STANDARD 602402-03



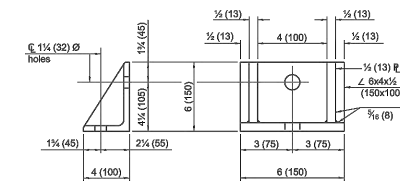
PLAN - FLAT SLAB TOP
(Showing layout of bottom reinforcement bars and c bars)



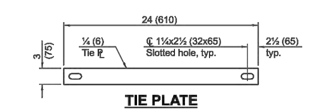
PLAN - FLAT SLAB TOP
(Showing layout of welded wire reinforcement and c bars)



JOINT SPLICE



CONNECTION ANGLE



TIE PLATE

FLAT SLAB TOP REINFORCEMENT

Location	WWR (each direction)		Rebar (each direction except as noted)		
	A_S(min.)	Spacing (max.)	A_S(min.)	Spacing (max.)	Bar Size
Top Mat	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	#3 or #4 (#10) (#13)
Bottom Mat	** 0.40 sq. in./ft. (847 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#4 (#13)

** Only one layer of WWR permitted to avoid congestion.

WALL REINFORCEMENT

Location	Orientation	WWR or Rebar	
		A_S(min.)	Spacing (max.)
Riser	Circumferential	0.15 sq. in./ft. (318 sq. mm/m)	6 (150)
	Vertical	0.045 sq. in./ft. (95 sq. mm/m)	8 (200)
Barrel	Circumferential	0.15 sq. in./ft. (318 sq. mm/m)	6 (150)
	Vertical	0.16 sq. in./ft. (339 sq. mm/m)	4 (100)

BASE SLAB REINFORCEMENT

Location	Total Height	WWR or Rebar (each direction)	
		A_S(min.)	Spacing (max.)
Top Mat	≤ 20 ft. (6.10 m)	0.24 sq. in./ft. (508 sq. mm/m)	10 (250)
	> 20 ft. (6.10 m)	0.28 sq. in./ft. (593 sq. mm/m)	8 (200)
Bottom Mat	All	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)

Illinois Department of Transportation
APPROVED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

PRECAST MANHOLE TYPE A 5' (1.52 m) DIAMETER (Sheet 2 of 2)

STANDARD 602402-03

CONSULTANTS
FDR
4620 E 53RD STREET
DAVENPORT, IA 52807-3620
(563) 293-7684

PREPARED FOR
QUAD CITIES INTERNATIONAL AIRPORT

NO.	DATE	DESCRIPTION	BY

AS-BUILT INFORMATION
CONTRACTOR:
WORK STAKED BY: DATE:
INSPECTOR'S ACCEPTANCE BY: DATE:
FIELD VERIFICATION BY: DATE:
DRAWINGS CORRECTED BY: DATE:

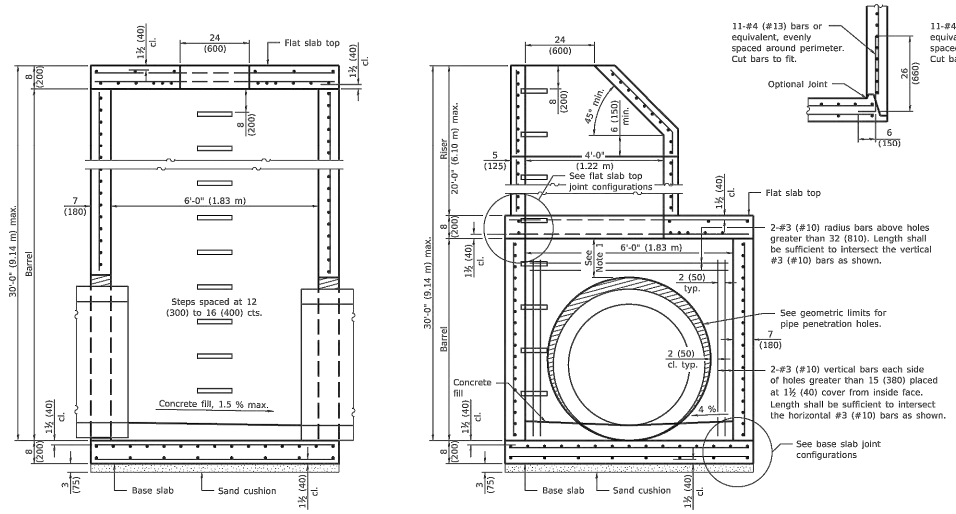
DESIGNED BY: MM
DRAWN BY: AJ
CHECKED BY: SM
DATE:

METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

DRAINAGE DETAILS (2 OF 5)

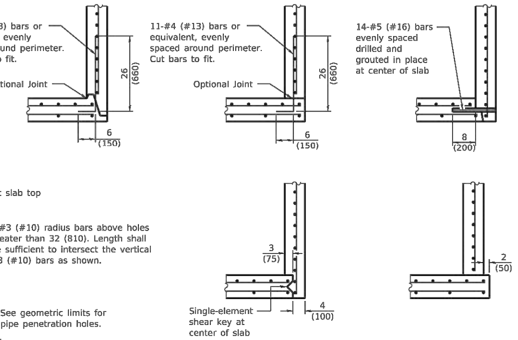
CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260

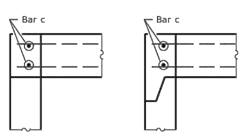


SECTION PARALLEL TO PIPE
(Without conical top riser)

SECTION PERPENDICULAR TO PIPE
(With conical top riser)



BASE SLAB JOINT CONFIGURATIONS



FLAT SLAB TOP JOINT CONFIGURATIONS
(Shown at access hole)

GEOMETRIC LIMITS FOR PIPE PENETRATION HOLES

Note 1: A minimum of 9 (230) of monolithic reinforced concrete shall be maintained above pipe penetration holes > 32 (810).

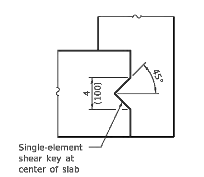
Note 2: A minimum 12 (300) inside arc length of reinforced concrete shall be maintained between pipe penetration holes > 15 (380).

Note 3: A maximum of 60 percent of the inside perimeter of the reinforced concrete manhole walls may be removed.

Note 4: Horizontal joints that intersect pipe penetration holes > 15 (380) shall have one joint splice for every location around the perimeter of the joint where the inside arc length between pipe penetration holes is < 24 (600). See joint splice detail.

Note 5: The recommended pipe penetration hole is equal to the O.D. of the pipe plus 4 (100).

Note 6: Only pipe penetration holes ≤ 15 (380) are allowed in riser sections.



SHEAR KEY GEOMETRY
(Reinforcement not shown for clarity)

GENERAL NOTES

Pipe holes shall be formed to facilitate proper placement of hole reinforcement.

The manufacturer shall ensure that all precast manhole sections are additionally reinforced where required to resist damage from handling, shipping and installation stresses.

Lifting holes shall be located in the sections as per the manufacturer's recommendations.

See Standard 602701 for details of manhole steps.

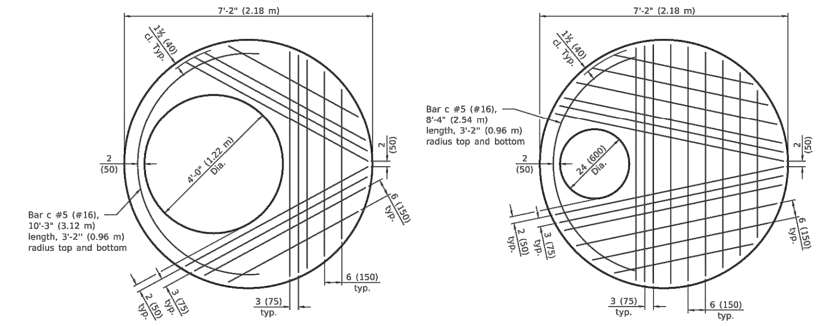
All dimensions are in inches (millimeters) unless otherwise noted.

DATE	REVISIONS
1-1-21	Revised Note 1, Note 2 and lifting hole general note.
3-1-19	Moved wall reinforcement from inside face to middle.

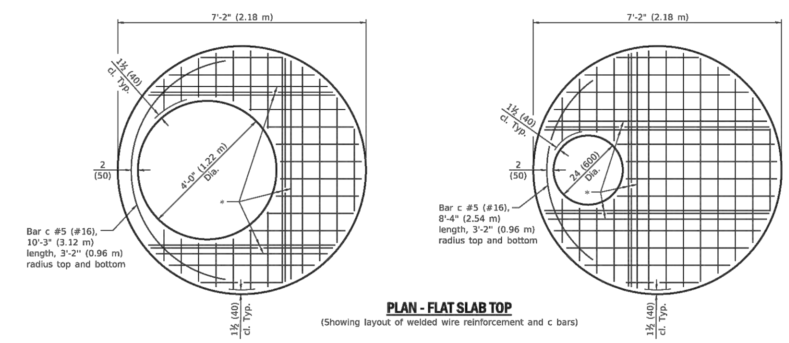
Illinois Department of Transportation
PASSED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

PRECAST MANHOLE TYPE A 6' (1.83 m) DIAMETER (Sheet 1 of 3)

STANDARD 602406-11



PLAN - FLAT SLAB TOP
(Showing layout of bottom reinforcement bars and c bars)



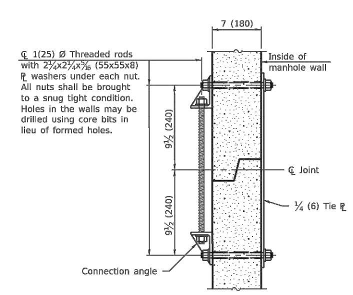
PLAN - FLAT SLAB TOP
(Showing layout of welded wire reinforcement and c bars)

* #5 (#16) bars for risers ≤ 10 ft. (3.05 m) tall or #6 (#19) bars for risers > 10 ft. (3.05 m) tall bottom. Bundle first bar with closest WWR bar to the opening and place second bar ±3 (75) away.

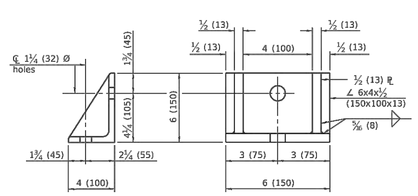
Illinois Department of Transportation
PASSED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

PRECAST MANHOLE TYPE A 6' (1.83 m) DIAMETER (Sheet 2 of 3)

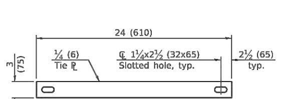
STANDARD 602406-11



JOINT SPLICE



CONNECTION ANGLE



TIE PLATE

FLAT SLAB TOP REINFORCEMENT

Location	Riser Height (RH)	WWR (each direction)		Rebar (each direction except as noted)		
		A_s (min.)	Spacing (max.)	A_s (min.)	Spacing (max.)	Bar Size
Top Mat	All	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)	#3 or #4 (#10) (#13)
Bottom Mat	RH ≤ 10 ft. (3.05 m)	** 0.62 sq. in./ft. (1312 sq. mm/m)	6 (150)	See plan view for rebar orientation and spacing and this table for bar size		#5 (#16)
	RH > 10 ft. (3.05 m)	** 0.88 sq. in./ft. (1863 sq. mm/m)	6 (150)			#6 (#19)

** Only one layer of WWR permitted to avoid congestion.

WALL REINFORCEMENT

Location	Orientation	WWR or Rebar	
		A_s (min.)	Spacing (max.)
4 ft. (1.22 m) Ø Riser	Circumferential	0.12 sq. in./ft. (254 sq. mm/m)	6 (150)
	Vertical	0.045 sq. in./ft. (95 sq. mm/m)	8 (200)
6 ft. (1.83 m) Ø Barrel	Circumferential	0.18 sq. in./ft. (381 sq. mm/m)	6 (150)
	Vertical	0.045 sq. in./ft. (95 sq. mm/m)	8 (200)

BASE SLAB REINFORCEMENT

Location	Riser Height (RH)/ Total Height (TH)	WWR or Rebar (each direction)	
		A_s (min.)	Spacing (max.)
Top Mat	RH ≤ 10 ft. (3.05 m) & TH ≤ 20 ft. (6.10 m)	0.28 sq. in./ft. (593 sq. mm/m)	6 (150)
	RH > 10 ft. (3.05 m) or TH > 20 ft. (6.10 m)	0.40 sq. in./ft. (847 sq. mm/m)	6 (150)
Bottom Mat	All	0.11 sq. in./ft. (233 sq. mm/m)	18 (450)

Illinois Department of Transportation
PASSED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT

PRECAST MANHOLE TYPE A 6' (1.83 m) DIAMETER (Sheet 3 of 3)

STANDARD 602406-11

CONSULTANTS
HDR
4620 E 53RD STREET
DAVENPORT, IA 52807-3620
(563) 293-7684

PREPARED FOR
QUAD CITIES INTERNATIONAL AIRPORT

NO.	DATE	DESCRIPTION	BY

AS-BUILT INFORMATION
CONTRACTOR:
WORK STAKED BY: DATE:
INSPECTOR'S ACCEPTANCE BY: DATE:
FIELD VERIFICATION BY: DATE:
DRAWINGS CORRECTED BY: DATE:

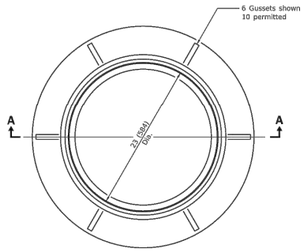
DESIGNED BY: MM
DRAWN BY: AJ
CHECKED BY: SM
DATE:

METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

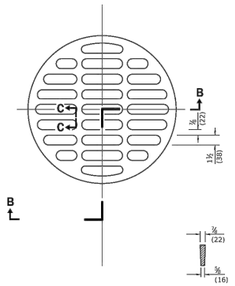
DRAINAGE DETAILS (3 OF 5)

CLIENT APPROVAL	CLIENT APPROVAL

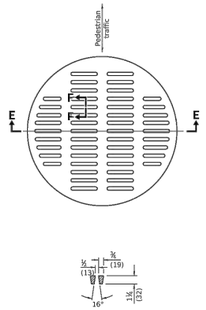
PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. 48 of 61



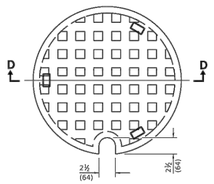
CAST FRAME

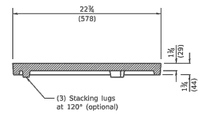


SECTION C-C



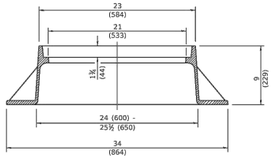
SECTION F-F



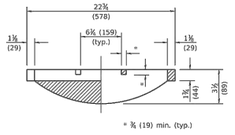


SECTION D-D

CAST CLOSED LID
Gray Iron Lid

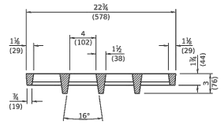


SECTION A-A
Gray Iron



SECTION B-B

CAST OPEN LID



SECTION E-E

ADA COMPLIANT CAST OPEN LID

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-20	Revised dimensions in Section B-B of cast open lid.
1-1-15	Revised dimensioning of frame. Added ADA compliant open lid.
1-1-09	Switched units to English (metric).

FRAME AND LIDS TYPE 1

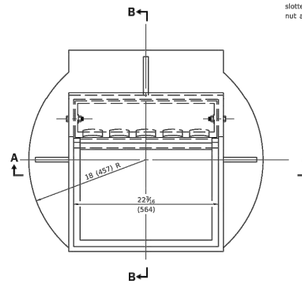
STANDARD 604001-05

Illinois Department of Transportation

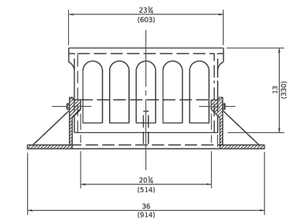
PASSED January 1, 2020 — ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2020 — ENGINEER OF DESIGN AND ENVIRONMENT

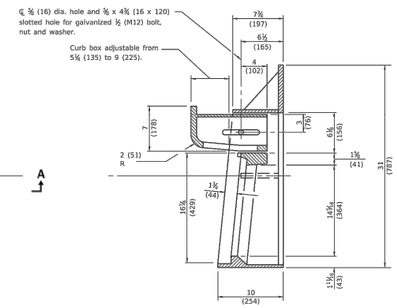
1-1-07 STANDARD



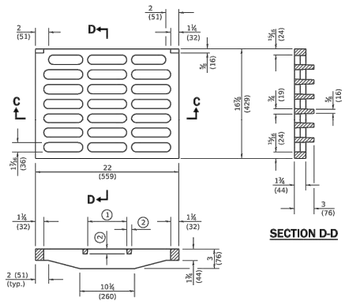
CAST FRAME



SECTION A-A



SECTION B-B

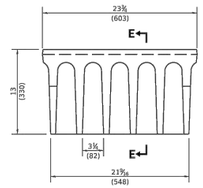


SECTION C-C

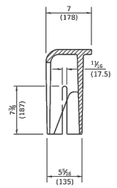
① = 6 (152) typ.
② = ¾ (19) typ.

SECTION D-D

CAST GRATE



ALTERNATE CURB BOX



SECTION E-E

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-15	Revised dimensions of frame and alternate curb box.
1-1-09	Switched units to English (metric).

FRAME AND GRATE TYPE 3

STANDARD 604006-05

Illinois Department of Transportation

PASSED January 1, 2015 — ENGINEER OF POLICY AND PROCEDURES

APPROVED January 1, 2015 — ENGINEER OF DESIGN AND ENVIRONMENT

1-1-07 STANDARD

CONSULTANTS

HDR

4620 E 53RD STREET
DAVENPORT, IA 52807-3620
(563) 293-7684

PREPARED FOR

QUAD CITIES INTERNATIONAL AIRPORT

NO.	DATE	DESCRIPTION	BY
		AS-BUILT INFORMATION	
		CONTRACTOR:	
		WORK STAKED BY:	DATE:
		INSPECTOR'S ACCEPTANCE BY:	DATE:
		FIELD VERIFICATION BY:	DATE:
		DRAWINGS CORRECTED BY:	DATE:

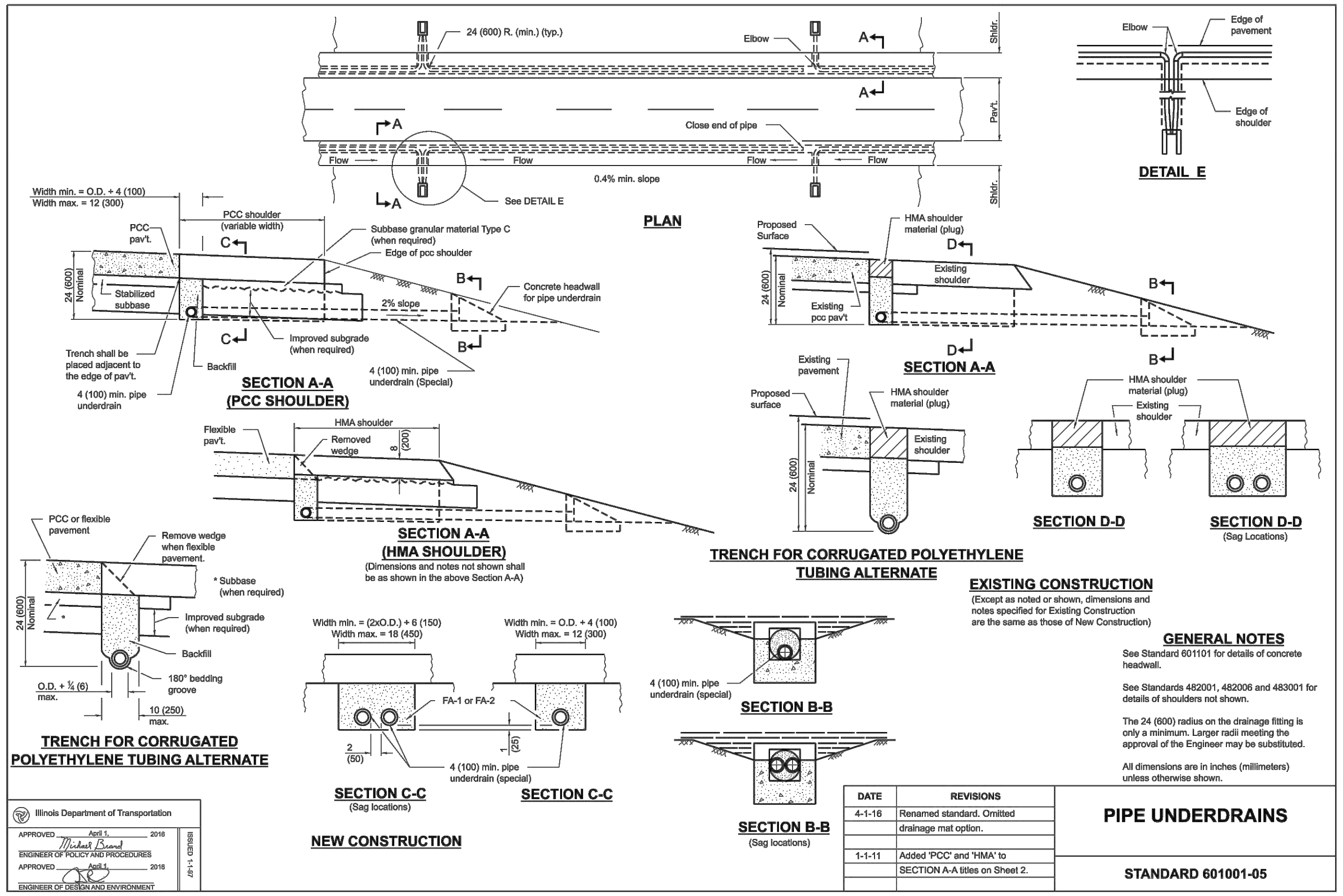
DESIGNED BY: MM
DRAWN BY: AJ
CHECKED BY: SM
DATE:

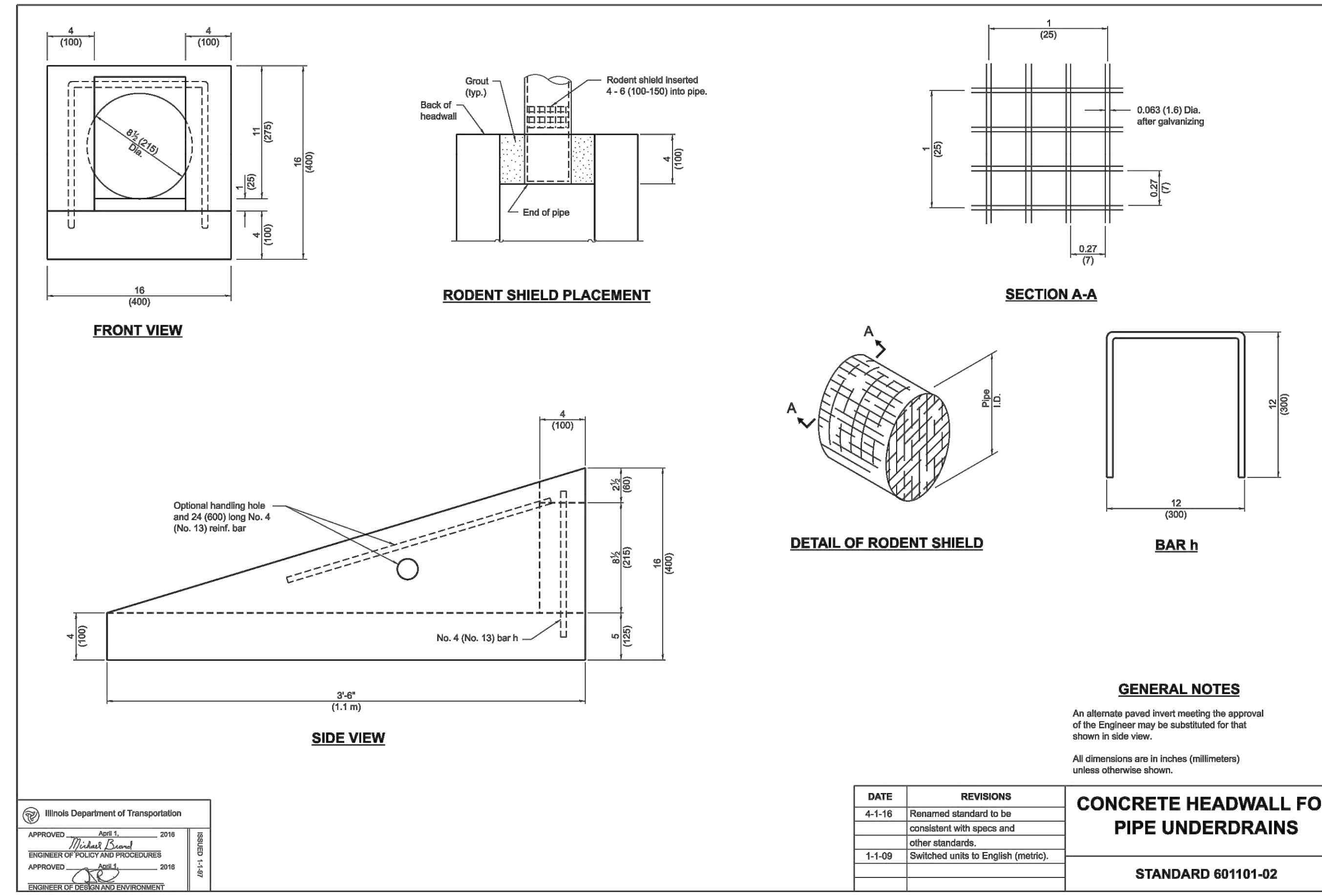
METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

DRAINAGE DETAILS (4 OF 5)

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. **49 of 61**


PLAN
DETAIL E
SECTION A-A (PCC SHOULDER)
SECTION A-A (HMA SHOULDER)
(Dimensions and notes not shown shall be as shown in the above Section A-A)
SECTION A-A
TRENCH FOR CORRUGATED POLYETHYLENE TUBING ALTERNATE
SECTION D-D
SECTION D-D (Sag Locations)
EXISTING CONSTRUCTION
(Except as noted or shown, dimensions and notes specified for Existing Construction are the same as those of New Construction)
TRENCH FOR CORRUGATED POLYETHYLENE TUBING ALTERNATE
SECTION C-C (Sag locations)
SECTION C-C
NEW CONSTRUCTION
SECTION B-B
SECTION B-B (Sag locations)
GENERAL NOTES
See Standard 601101 for details of concrete headwall.
See Standards 482001, 482006 and 483001 for details of shoulders not shown.
The 24 (600) radius on the drainage fitting is only a minimum. Larger radii meeting the approval of the Engineer may be substituted.
All dimensions are in inches (millimeters) unless otherwise shown.
Illinois Department of Transportation
DATE
REVISIONS
4-1-16
Renamed standard. Omitted drainage mat option.
1-1-11
Added 'PCC' and 'HMA' to SECTION A-A titles on Sheet 2.
PIPE UNDERDRAINS
STANDARD 601001-05


FRONT VIEW
RODENT SHIELD PLACEMENT
SECTION A-A
DETAIL OF RODENT SHIELD
BAR h
SIDE VIEW
GENERAL NOTES
An alternate paved invert meeting the approval of the Engineer may be substituted for that shown in side view.
All dimensions are in inches (millimeters) unless otherwise shown.
Illinois Department of Transportation
DATE
REVISIONS
4-1-16
Renamed standard to be consistent with specs and other standards.
1-1-09
Switched units to English (metric).
CONCRETE HEADWALL FOR PIPE UNDERDRAINS
STANDARD 601101-02

CONSULTANTS

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DAVENPORT, IA 52807-3620
(563) 293-7684

PREPARED FOR

QUAD CITIES INTERNATIONAL AIRPORT

NO.	DATE	DESCRIPTION	BY

AS-BUILT INFORMATION
CONTRACTOR: DATE:
WORK STAKED BY: DATE:
INSPECTOR'S ACCEPTANCE BY: DATE:
FIELD VERIFICATION BY:
DRAWINGS CORRECTED BY: DATE:

DESIGNED BY: MM
DRAWN BY: AJ
CHECKED BY: SM
DATE:

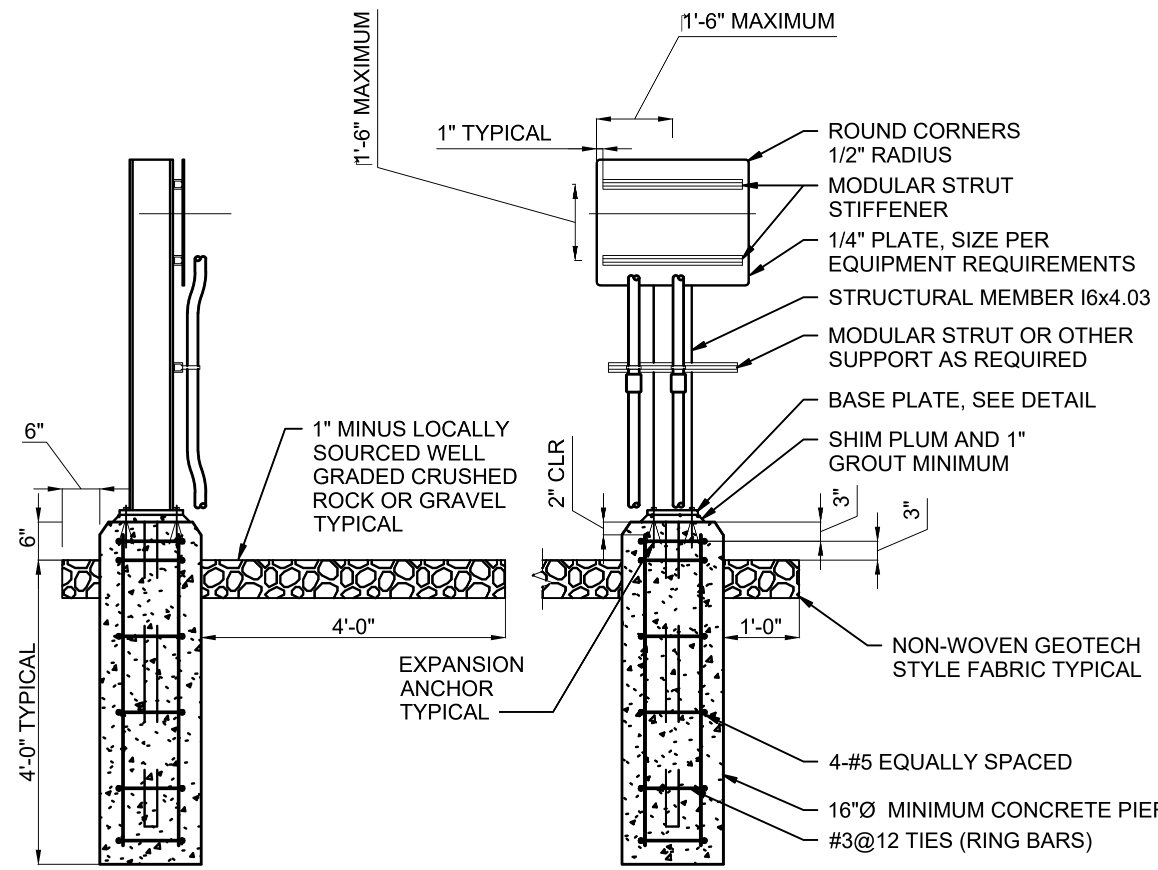
METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)

REALIGN THE GENERAL AVIATION ENTRANCE ROAD

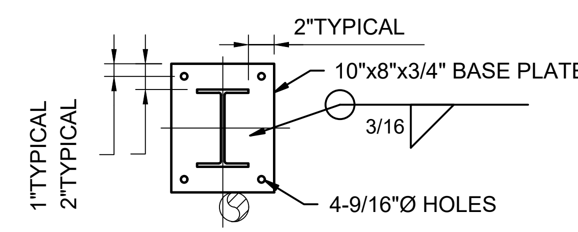
DRAINAGE DETAILS (5 OF 5)

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. 50 of 61



SIDE VIEW **FRONT VIEW**



BASE PLATE PLAN VIEW

NOTES:

1. MOUNT DISCONNECT SWITCH 54 INCHES ABOVE GRADE TO CENTER OF HANDLE.
2. PEDESTAL ASSEMBLY MATERIAL: ALUMINUM, AA TYPE 6061-T6 OR 6063-T6.
3. ANCHORS: STAINLESS STEEL, 1/2" DIAMETER, 3 1/2" EMBEDMENT.
4. PROTECT SURFACES WITH DISSIMILAR MATERIALS PRIME COAT WITH A MULTI-PURPOSE EPOXY COATING, 4.5 TO 5.5 MIL.
5. ATTACH EACH MODULAR STRUT AND STIFFENER TO STRUCTURAL MEMBER WITH A MINIMUM OF TWO 3/8 INCH DIAMETER STAINLESS STEEL ROUND HEAD MACHINE SCREWS WITH LOCK WASHER AND NUT.
6. ATTACH PLATE TO EACH STIFFENER WITH A MINIMUM OF THREE 3/8 INCH DIAMETER STAINLESS STEEL FLAT HEAD (COUNTER SUNK) MACHINE SCREWS USING CHANNEL NUTS WITH SPRINGS.

SERVICE DISCONNECT SWITCH MOUNTING PEDESTAL

NOT TO SCALE

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(563) 293-7684

PREPARED FOR
QUAD CITIES INTERNATIONAL AIRPORT

NO.	DATE	DESCRIPTION	BY

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DRAWINGS CORRECTED BY: DATE:

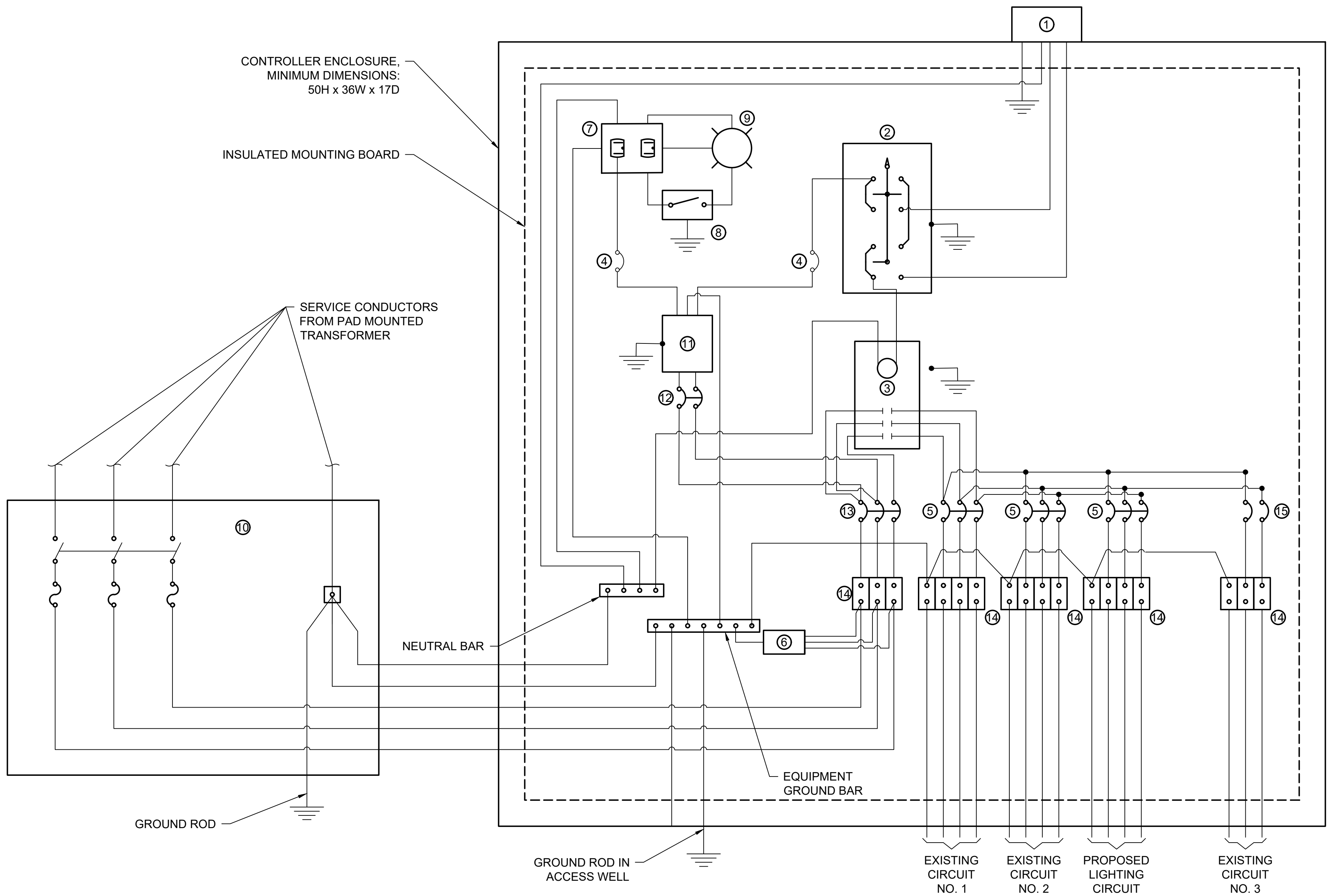
DESIGNED BY: MM
DRAWN BY: AJ
CHECKED BY: SM
DATE:

METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

LIGHTING DETAILS (1 OF 4)

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. 51 of 61



480V, 3PH LIGHTING CONTROLLER

NOT TO SCALE

1. PHOTOCELL WITH INTEGRAL SURGE ARRESTER.
2. HAND-OFF-AUTO SELECTOR SWITCH.
3. 100 AMP*, ELECTRICALLY HELD CONTACTOR.
4. 15 AMP, 1-POLE CIRCUIT BREAKER.
5. 20 AMP, 3-POLE CIRCUIT BREAKER.
6. SURGE ARRESTER.
7. GFCI DUPLEX RECEPTACLE.
8. SINGLE-POLE, SINGLE-THROW SWITCH.
9. LED STRIP LUMINAIRE, ENCLOSED AND GASKETED, 2' LENGTH, 1800 LUMENS NOMINAL, 400K
10. SERVICE DISCONNECT SWITCH - 2-POLE, 3-WIRE, 100 AMP*, FUSED AT 100 AMP*, SOLID NEUTRAL IN NEMA 4X ENCLOSURE HAVING LOCKABLE EXTERNAL HANDLE.
11. TRANSFORMER - 1KVA*, 480V PRIMARY, 120/240V SECONDARY, SINGLE-PHASE, 60H.
12. 15 AMP, 2-POLE CIRCUIT BREAKER.
13. 100 AMP*, 3-POLE CIRCUIT BREAKER.
14. TERMINAL BLOCK SIZED FOR CONDUCTOR AS SHOWN ON PLANS.
15. 25 AMP, 2-POLE CIRCUIT BREAKER

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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PREPARED FOR
QUAD CITIES INTERNATIONAL AIRPORT

NO.	DATE	DESCRIPTION	BY

AS-BUILT INFORMATION
CONTRACTOR:
WORK STAKED BY: DATE:
INSPECTOR'S ACCEPTANCE BY: DATE:
FIELD VERIFICATION BY: DATE:
DRAWINGS CORRECTED BY: DATE:

DESIGNED BY: MM
DRAWN BY: AJ
CHECKED BY: SM
DATE:

METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)

REALIGN THE GENERAL AVIATION ENTRANCE ROAD

LIGHTING DETAILS (2 OF 4)

CLIENT APPROVAL	CLIENT APPROVAL

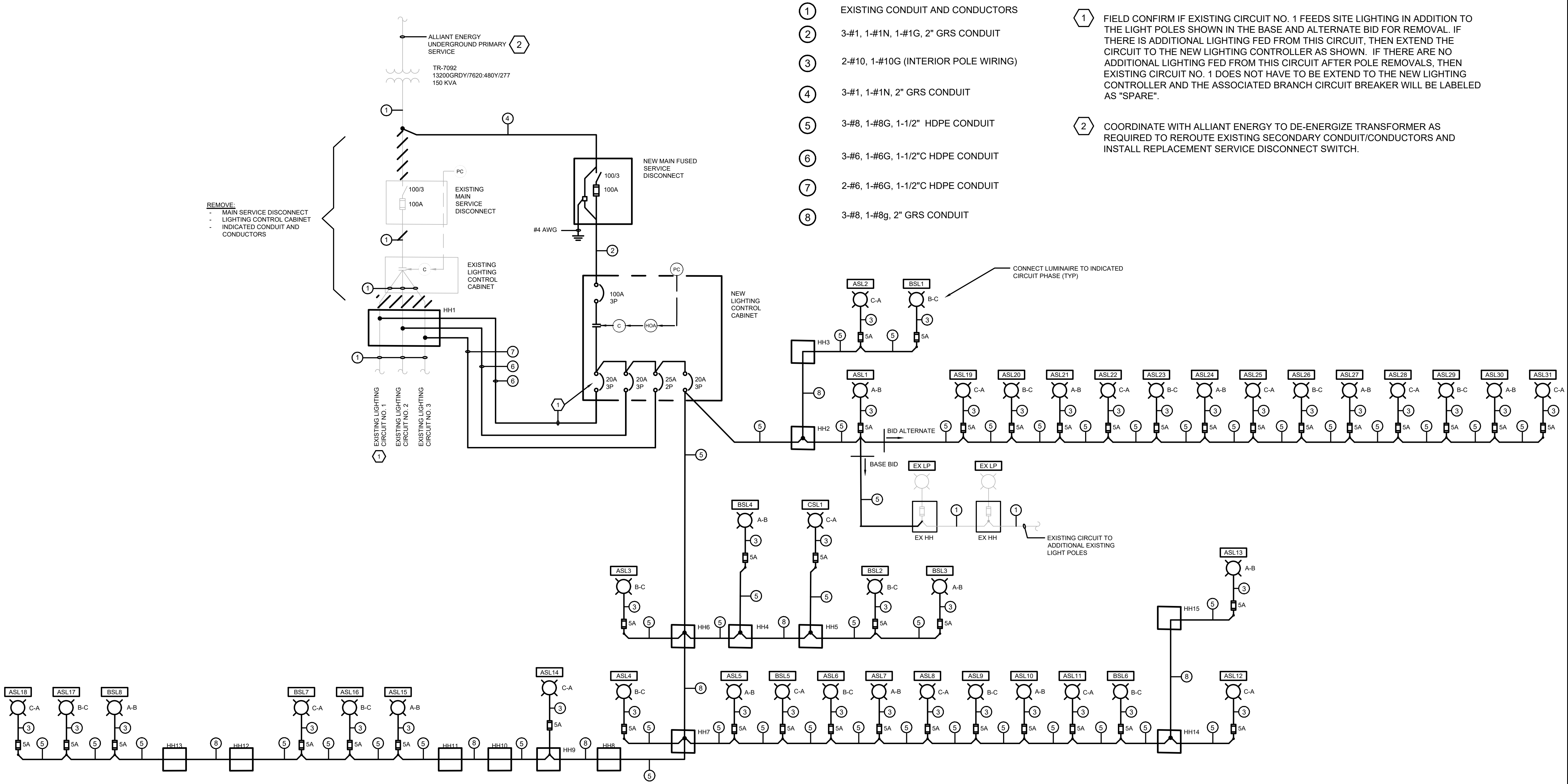
PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260

FEEDER SCHEDULE

TAG NO.	DESCRIPTION
1	EXISTING CONDUIT AND CONDUCTORS
2	3-#1, 1-#1N, 1-#1G, 2" GRS CONDUIT
3	2-#10, 1-#10G (INTERIOR POLE WIRING)
4	3-#1, 1-#1N, 2" GRS CONDUIT
5	3-#8, 1-#8G, 1-1/2" HDPE CONDUIT
6	3-#6, 1-#6G, 1-1/2"C HDPE CONDUIT
7	2-#6, 1-#6G, 1-1/2"C HDPE CONDUIT
8	3-#8, 1-#8g, 2" GRS CONDUIT

KEYNOTES:

1. FIELD CONFIRM IF EXISTING CIRCUIT NO. 1 FEEDS SITE LIGHTING IN ADDITION TO THE LIGHT POLES SHOWN IN THE BASE AND ALTERNATE BID FOR REMOVAL. IF THERE IS ADDITIONAL LIGHTING FED FROM THIS CIRCUIT, THEN EXTEND THE CIRCUIT TO THE NEW LIGHTING CONTROLLER AS SHOWN. IF THERE ARE NO ADDITIONAL LIGHTING FED FROM THIS CIRCUIT AFTER POLE REMOVALS, THEN EXISTING CIRCUIT NO. 1 DOES NOT HAVE TO BE EXTEND TO THE NEW LIGHTING CONTROLLER AND THE ASSOCIATED BRANCH CIRCUIT BREAKER WILL BE LABELED AS "SPARE".
2. COORDINATE WITH ALLIANT ENERGY TO DE-ENERGIZE TRANSFORMER AS REQUIRED TO REROUTE EXISTING SECONDARY CONDUIT/CONDUCTORS AND INSTALL REPLACEMENT SERVICE DISCONNECT SWITCH.



SITE LIGHTING ONE LINE DIAGRAM

CONSULTANTS

4620 E 53RD STREET
DAVENPORT, IA 52807-3620
(563) 293-7684

PREPARED FOR

QUAD CITIES INTERNATIONAL AIRPORT

NO.	DATE	DESCRIPTION	BY

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FIELD VERIFICATION BY: DATE:
DRAWINGS CORRECTED BY: DATE:

DESIGNED BY: MM
DRAWN BY: AJ
CHECKED BY: SM
DATE:

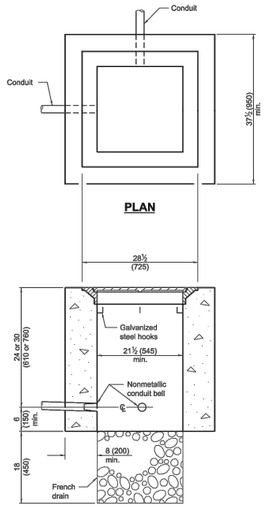
METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)

REALIGN THE GENERAL AVIATION ENTRANCE ROAD

LIGHTING DETAILS (3 OF 4)

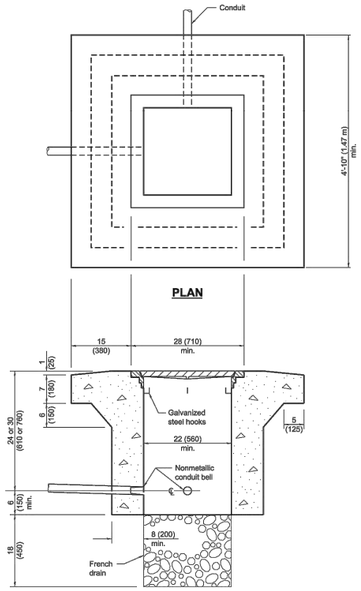
CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. 53 of 61



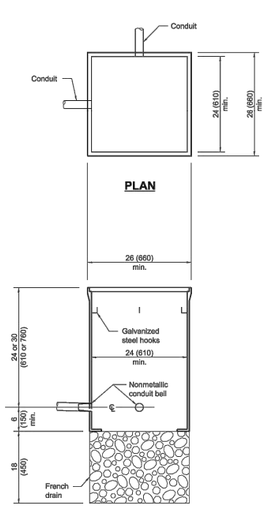
ELEVATION

PORTLAND CEMENT CONCRETE



ELEVATION

PORTLAND CEMENT CONCRETE HEAVY DUTY



ELEVATION

COMPOSITE CONCRETE

All dimensions are in inches (millimeters) unless otherwise shown.

QUANTITIES

	Concrete yd³ (m³)	
Depth	Handhole	Heavy Duty Handhole
30 (762)	0.61 (0.47)	0.98 (0.75)
36 (914)	0.73 (0.56)	1.10 (0.84)

Illinois Department of Transportation

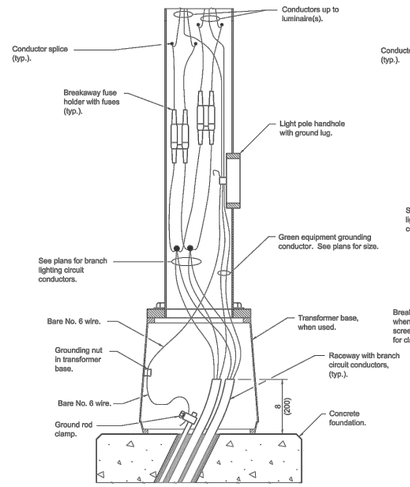
APPROVED January 1, 2016
ENGINEER OF OPERATIONS
APPROVED January 1, 2016
ENGINEER OF DESIGN AND ENVIRONMENT

BD800 1-1-16

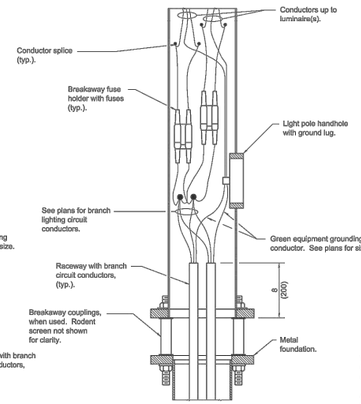
DATE	REVISIONS
1-1-15	Corrected dimension on heavy duty handhole. Added concrete quantities table.
1-1-09	Switched units to English (metric).

HANDHOLES

STANDARD 814001-03



ELEVATION AT POLE BASE WITH CONCRETE FOUNDATION



ELEVATION AT POLE BASE WITH METAL FOUNDATION

(Rodent screen not shown)

GENERAL NOTES

Wiring for twin luminaire installation shown. Omit one fuse holder with connections for single luminaire installation.

All conductors originating in pole shall be No. 10 unless noted otherwise.

Conductors extended into light poles shall be of a length sufficient for splices to be withdrawn 18 (450) out of pole handole.

Any voids in the foundation shall be filled with fine aggregate.

See Standard 836001 for Light Pole Foundation and ground rod.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED January 1, 2025
ELECTRICAL AND MECHANICAL UNIT CHIEF
APPROVED January 1, 2025
ENGINEER OF DESIGN AND ENVIRONMENT

BD800 1-1-24

DATE	REVISIONS
1-1-25	Omitted the surge protective device in the light pole.
1-1-17	Renamed Standard

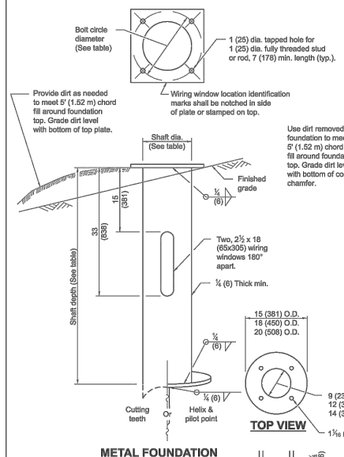
LUMINAIRE WIRING IN POLE

STANDARD 821101-03

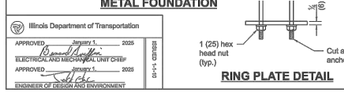
LIGHT POLE MOUNTING HEIGHT	BOLT CIRCLE DIAMETER	METAL FOUNDATION SHAFT DIAMETER	METAL FOUNDATION SHAFT DEPTH	METAL FOUNDATION TOP PLATE (min)	CONCRETE FOUNDATION SHAFT DIAMETER	CONCRETE FOUNDATION SHAFT DEPTH	CONCRETE FOUNDATION ANCHOR ROD LENGTH
≤30' (9.1 m)	11½ (292)	8⅝ (220)	6' (1.83 m)	12 x 12 x 1 (300 x 300 x 25)	24 (610)	5'-0" (1.52 m)	4'-9" (1.45 m)
31'-35' (9.4 m - 10.7 m)	11½ (292)	8⅝ (220)	6' (1.83 m)	12 x 12 x 1 (300 x 300 x 25)	24 (610)	5'-6" (1.67 m)	5'-3" (1.60 m)
36'-40' (10.9 m - 12.2 m)	15 (381) ②	8⅝ (220)	6' (1.83 m) ①	15 x 15 x 1½ (375 x 375 x 31)	30 (762)	6'-0" (1.83 m)	5'-9" (1.75 m)
41'-45' (12.5 m - 13.7 m)	15 (381) ②	8⅝ (220)	6' (1.83 m) ①	15 x 15 x 1½ (375 x 375 x 31)	30 (762)	6'-6" (1.98 m)	6'-3" (1.90 m)
46'-50' (14.0 m - 15.2 m)	15 (381) ②	8⅝ (220)	8' (2.44 m)	15 x 15 x 1½ (375 x 375 x 31)	30 (762)	7'-0" (2.13 m)	6'-9" (2.00 m)

① 8⅝ x 8'-0" (220 x 2.44 m) for twin luminaires.

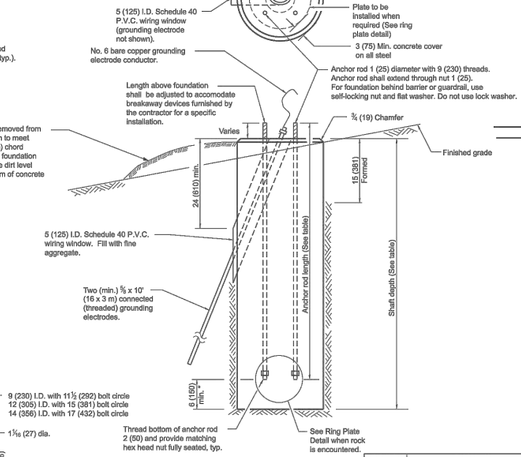
② Bolt circle diam. shall be 17 (430) when a transformer base is used.



METAL FOUNDATION



RING PLATE DETAIL

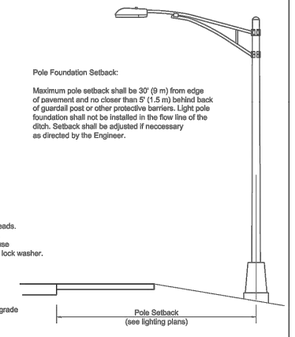


CONCRETE FOUNDATION

* If the required anchor rod length above top of foundation is less than 3 (75), anchor rods may be lowered below 6 (150).

Pole Foundation Setback:

Maximum pole setback shall be 30' (9 m) from edge of pavement and no closer than 5' (1.5 m) behind back of guardrail post or other protective barriers. Light pole foundation shall not be installed in the flow line of the ditch. Setback shall be adjusted if necessary as directed by the Engineer.



GENERAL NOTES

All foundations are designed to be located on slopes not exceeding 2:1 where soils have an unconfined compressive strength of at least 1.0 TSF. The Contractor shall verify the soil strength during drilling for concrete foundations or by monitoring installation resistance of metal foundations and notify the Engineer if other conditions are encountered.

When rock is encountered the foundation depth may be reduced 6 (150) for every 12 (300) of embedment in rock. The minimum foundation depth shall be 4'-6" (1.37 m) with cut anchor rods 6 (150) above bottom of excavated hole. See ring plate detail.

Anchor rods shall be increased in diameter as needed for 50' (15.2 m) mounting height or above. The Contractor shall match the breakaway device size or slotted hole size in the pole base plate to accomodate larger rod sizes.

Transformer bases shall not be used on metal foundations.

All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-25	Revised pole location setback to agree with the BDE Manual.
1-1-19	Omitted multimount luminaire to agree with BDE Manual.

LIGHT POLE FOUNDATION

STANDARD 836001-05

CONSULTANTS

HDR

4620 E 53RD STREET
DAVENPORT, IA 52807-3620
(563) 293-7684

PREPARED FOR

QUAD CITIES INTERNATIONAL AIRPORT

NO.	DATE	DESCRIPTION	BY
		AS-BUILT INFORMATION	
		CONTRACTOR:	
		WORK STAKED BY: DATE:	
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		DRAWINGS CORRECTED BY: DATE:	

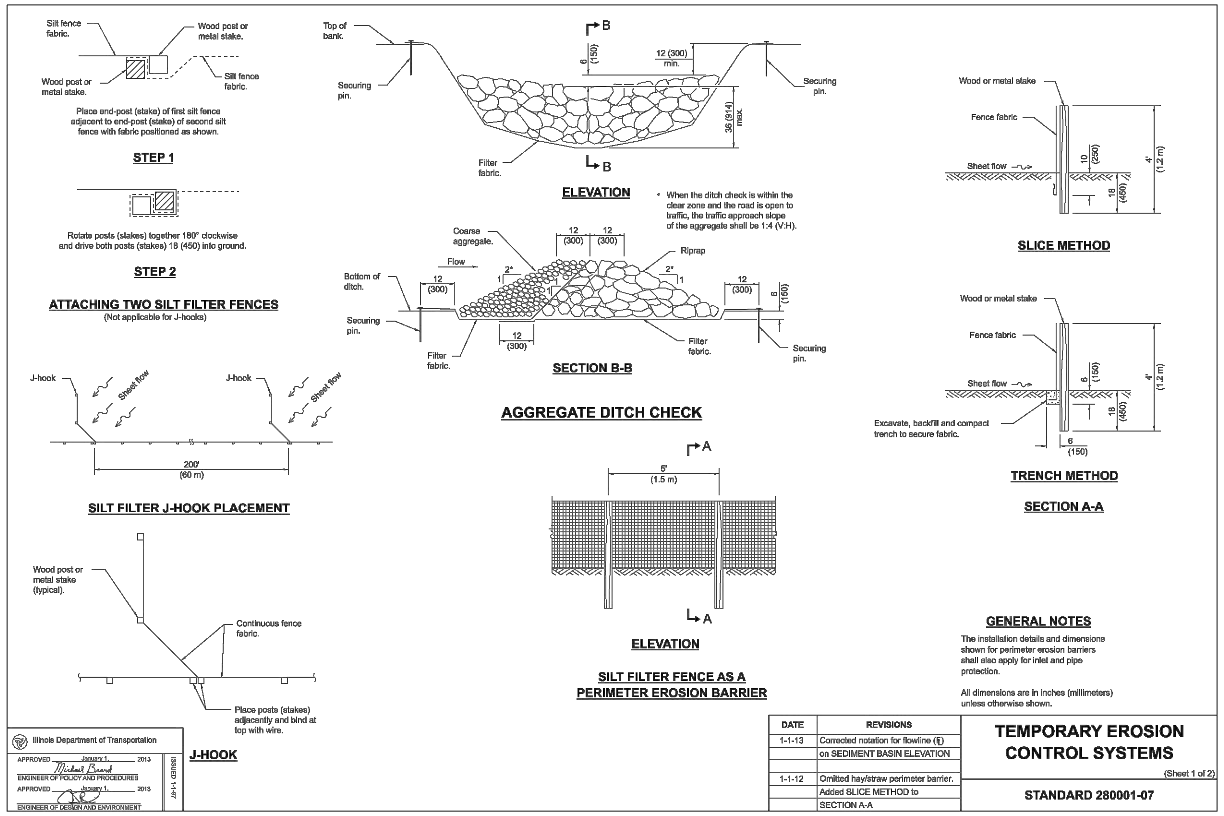
DESIGNED BY: MM
DRAWN BY: AJ
CHECKED BY: SM
DATE:

METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

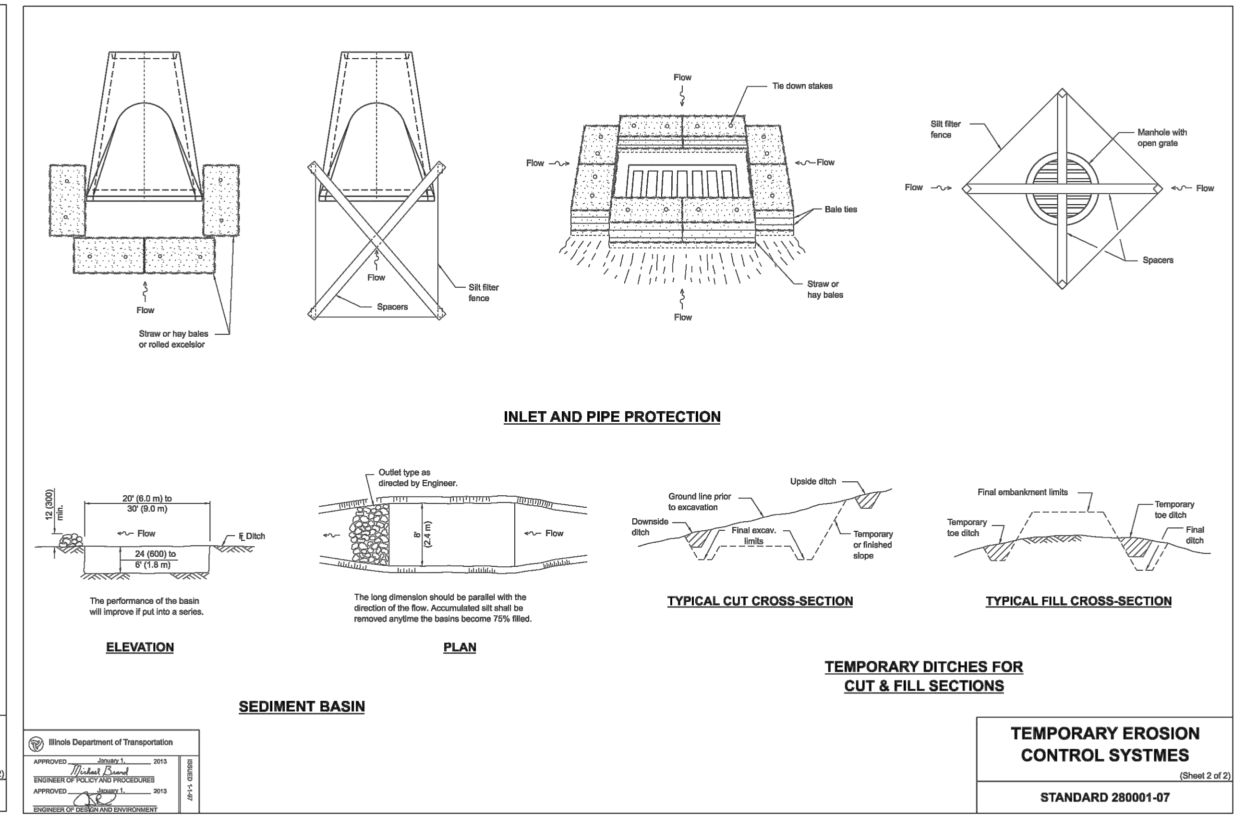
LIGHTING DETAILS (4 OF 4)

CLIENT APPROVAL	CLIENT APPROVAL

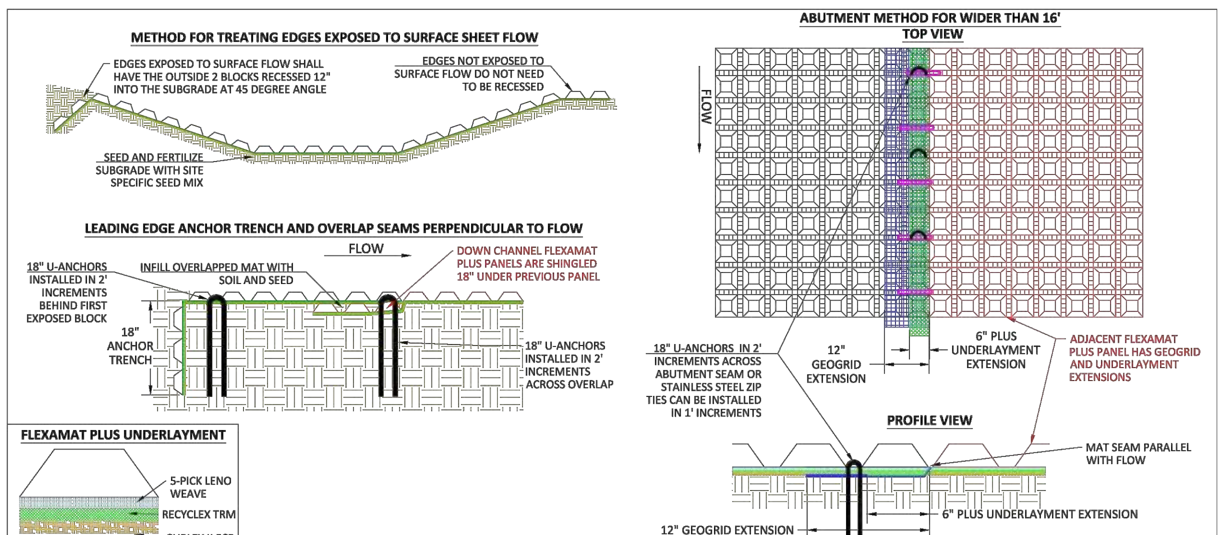
PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. **54 of 61**



STEP 1
STEP 2
ATTACHING TWO SILT FILTER FENCES
(Not applicable for J-hooks)
SILT FILTER J-HOOK PLACEMENT
J-HOOK
ELEVATION
SECTION B-B
AGGREGATE DITCH CHECK
SLICE METHOD
TRENCH METHOD
SECTION A-A
ELEVATION
SILT FILTER FENCE AS A PERIMETER EROSION BARRIER
GENERAL NOTES
The installation details and dimensions shown for perimeter erosion barriers shall also apply for inlet and pipe protection.
All dimensions are in inches (millimeters) unless otherwise shown.
Illinois Department of Transportation
TEMPORARY EROSION CONTROL SYSTEMS
(Sheet 1 of 2)
STANDARD 280001-07



INLET AND PIPE PROTECTION
ELEVATION
PLAN
SEDIMENT BASIN
TYPICAL CUT CROSS-SECTION
TYPICAL FILL CROSS-SECTION
TEMPORARY DITCHES FOR CUT & FILL SECTIONS
Illinois Department of Transportation
TEMPORARY EROSION CONTROL SYSTEMS
(Sheet 2 of 2)
STANDARD 280001-07



METHOD FOR TREATING EDGES EXPOSED TO SURFACE SHEET FLOW
EDGES EXPOSED TO SURFACE FLOW SHALL HAVE THE OUTSIDE 2 BLOCKS RECESSED 12" INTO THE SUBGRADE AT 45 DEGREE ANGLE
EDGES NOT EXPOSED TO SURFACE FLOW DO NOT NEED TO BE RECESSED
SEED AND FERTILIZE SUBGRADE WITH SITE SPECIFIC SEED MIX
LEADING EDGE ANCHOR TRENCH AND OVERLAP SEAMS PERPENDICULAR TO FLOW
FLOW
18" U-ANCHORS INSTALLED IN 2' INCREMENTS BEHIND FIRST EXPOSED BLOCK
INFILL OVERLAPPED MAT WITH SOIL AND SEED
DOWN CHANNEL FLEXAMAT PLUS PANELS ARE SHINGLED 18" UNDER PREVIOUS PANEL
18" ANCHOR TRENCH
18" U-ANCHORS INSTALLED IN 2' INCREMENTS ACROSS OVERLAP
ABUTMENT METHOD FOR WIDER THAN 16' TOP VIEW
18" U-ANCHORS IN 2' INCREMENTS ACROSS ABUTMENT SEAM OR STAINLESS STEEL ZIP TIES CAN BE INSTALLED IN 1' INCREMENTS
12" GEOGRID EXTENSION
6" PLUS UNDERLAYMENT EXTENSION
ADJACENT FLEXAMAT PLUS PANEL HAS GEOGRID AND UNDERLAYMENT EXTENSIONS
PROFILE VIEW
MAT SEAM PARALLEL WITH FLOW
12" GEOGRID EXTENSION
6" PLUS UNDERLAYMENT EXTENSION
FLEXAMAT PLUS UNDERLAYMENT
5-PICK LENO WEAVE
RECYCLEX TRM
CURLEX II ECB

FLEXAMAT PLUS CHANNEL - LAYOUT PARALLEL TO FLOW

CONSTRUCTION NOTES:

1. AN ENGINEER OR MANUFACTURES REPRESENTATIVE SHALL BE ONSITE FOR THE START OF THE INSTALLATION.
2. GRADE CHANNEL SO THAT WATER WILL FLOW DOWN CENTER OF THE CHANNEL AND BE CONTAINED TO THE CHANNEL. ALL SUBGRADE SURFACES PREPARED FOR PLACEMENT OF MATS SHALL BE SMOOTH AND FREE OF ALL ROCKS, STICKS, ROOTS, OTHER PROTRUSIONS, OR DEBRIS OF ANY KIND.
3. PRIOR TO FLEXAMAT PLUS INSTALLATION SEED AND FERTILIZE THE PREPARED SUBGRADE WITH SITE SPECIFIC SEED MIX AND IN ACCORDANCE WITH THE PROJECT PLANS AND SPECIFICATIONS.
4. INSTALL FLEXAMAT PLUS ROLLS, USING THE WIDEST ROLLS POSSIBLE TO AVOID SEAMS.
   - 4.1. FOR CHANNELS THAT ARE WIDER THAN 16', INSTALL 15.5' WIDE FLEXAMAT PLUS ROLLS THAT INCLUDE 12" GEOGRID EXTENSIONS WITH A 6" PLUS UNDERLAYMENT EXTENSIONS. THESE SEAMS ARE PARALLEL WITH FLOW, THE ADJACENT MAT INSTALLED OVER THE EXTENSIONS. ENSURE GEOGRID AND TRM EXTENSIONS ARE LAYING FLAT ON SUBGRADE PRIOR TO INSTALLING ADJACENT MAT.
   - 4.2. SECURE THE ABUTMENT PARALLEL WITH FLOW BY INSTALLING 18" U-ANCHORS IN 2' INCREMENTS OR 20" STAINLESS STEEL ZIP TIES IN 1' INCREMENTS THROUGH THE EXTENSION OVERLAP. U ANCHORS OR ZIP TIES TO BE INSTALLED PERPENDICULAR TO FLOW. ZIP TIES SHALL ENCOMPASS 3 CORDS OF GEOGRID FROM EACH MAT.
5. FOR ADDITIONAL SECTIONS OF MAT, SECURE SEAM PERPENDICULAR WITH FLOW BY OVERLAPPING THE DOWNSTREAM SECTION 18" WITH UPSTREAM SECTION OF MAT. PRIOR TO INSTALLING OVERLAP, FLIP UPSTREAM MAT BACK 24". EXCAVATE 2.25"' OF SOIL 18" FROM END OF UPSTREAM MAT. DOWNSTREAM SECTION IS LAID IN THE SHALLOW TRENCH. RETURN AND TAMP SOIL OVER INITIAL EDGE AND SEED. FLIP END OF UPSTREAM MAT OVER THE SOIL COVERED AND SEEDED INITIAL LEADING EDGE OF DOWNSTREAM MAT.
   - 5.1. SECURE OVERLAPS PERPENDICULAR TO FLOW BY INSTALLING 18" U-ANCHORS IN 2' INCREMENTS OR 20" STAINLESS STEEL ZIP TIES IN 1' INCREMENTS THROUGH THE OVERLAP. ZIP TIES SHALL ENCOMPASS 3 CORDS OF GEOGRID FROM EACH MAT.
6. AT THE INITIAL LEADING EDGE OF THE FLEXAMAT PLUS ARMORED CHANNEL, EMBED THE MAT 18" IN A VERTICAL ANCHOR TRENCH. SECURE TRENCH WITH 18" U-ANCHORS INSTALLED BEHIND THE FIRST ROW OF EXPOSED BLOCKS IN 2' INCREMENTS. FILL AND COMPACT ANCHOR TRENCH WITH SUITABLE FILL. AT ENDING EDGE OF PROTECTION, EMBED THE MAT 18" IN A TERMINATION TRENCH. THE TRENCH SHALL BE FILLED AND COMPACTED WITH SUITABLE FILL, AS DETERMINED BY THE ENGINEER OF RECORD.

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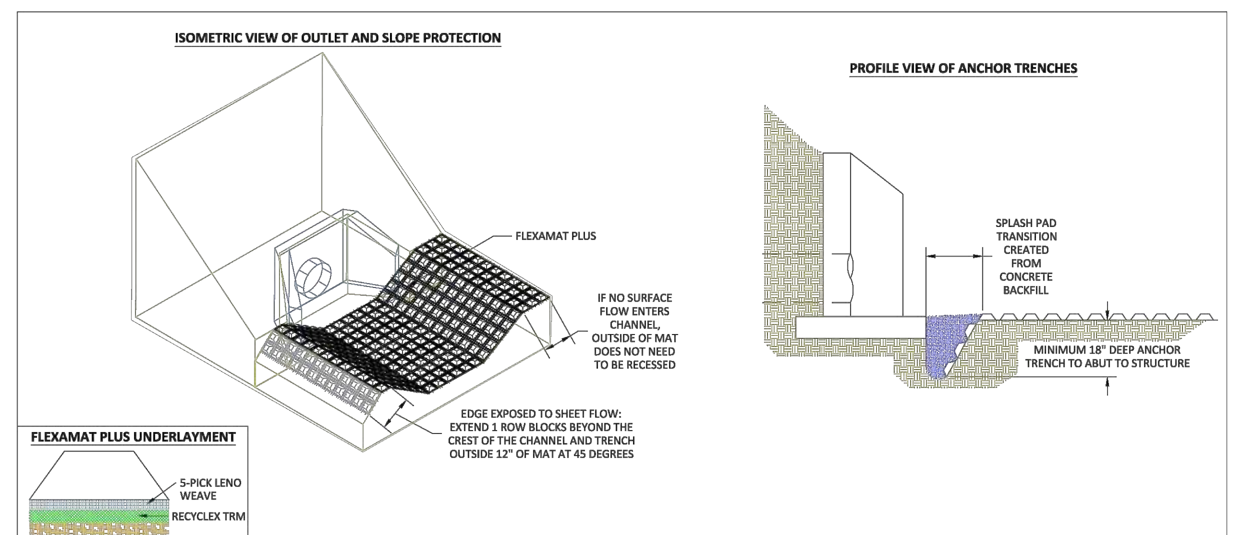
REV - 4



ISOMETRIC VIEW OF OUTLET AND SLOPE PROTECTION
FLEXAMAT PLUS
IF NO SURFACE FLOW ENTERS CHANNEL, OUTSIDE OF MAT DOES NOT NEED TO BE RECESSED
EDGE EXPOSED TO SHEET FLOW: EXTEND 1 ROW BLOCKS BEYOND THE CREST OF THE CHANNEL AND TRENCH OUTSIDE 12" OF MAT AT 45 DEGREES
PROFILE VIEW OF ANCHOR TRENCHES
SPLASH PAD TRANSITION CREATED FROM CONCRETE BACKFILL
MINIMUM 18" DEEP ANCHOR TRENCH TO ABUT TO STRUCTURE
FLEXAMAT PLUS UNDERLAYMENT
5-PICK LENO WEAVE
RECYCLEX TRM
CURLEX II ECB

FLEXAMAT PLUS - OUTLET ARMORING

CONSTRUCTION NOTES:

1. GRADE CHANNEL SO THAT WATER WILL FLOW DOWN CENTER OF THE CHANNEL AND BE CONTAINED TO THE CHANNEL. ALL SUBGRADE SURFACES PREPARED FOR PLACEMENT OF MATS SHALL BE SMOOTH AND FREE OF ALL ROCKS, STICKS, ROOTS, OTHER PROTRUSIONS, OR DEBRIS OF ANY KIND. THE PREPARED SURFACE SHALL PROVIDE A FIRM UNYIELDING FOUNDATION FOR THE MATS.
2. INSTALL FLEXAMAT ROLLS. AVAILABLE WIDTHS ARE 4', 5.5', 8', 10', 12', AND 16' AVAILABLE IN CUSTOM LENGTHS. FOR WIDTHS WIDER THAN 16', INSTALL MAT WITH GEOGRID EXTENSION AND PLUS UNDERLAYMENT EXTENSION.
   - 2.1. WHERE POSSIBLE AVOID LONGITUDINAL ABUTMENT SEAMS IN CHANNEL BOTTOM.
   - 2.2. FOR OUTLET PROTECTION WIDER THAN 16' SEE CHANNEL PARALLEL TO FLOW INSTALLATION DETAIL.
   - 2.3. FOR OUTLET PROTECTION THAT REQUIRES MORE THAN 1 MAT IN LENGTH TO COVER CHANNEL SEE CHANNEL PARALLEL TO FLOW INSTALLATION DETAIL.
3. AT THE BEGINNING OF CHANNEL, THE INITIAL LEADING EDGE OF FLEXAMAT EXPOSED TO CONCENTRATED FLOW SHALL BE EMBEDDED 18" VERTICALLY INTO ANCHOR TRENCH. THE TRENCH SHALL BE FILLED WITH 4,000 PSI CONCRETE.
4. AT THE END OF THE ARMORED CHANNEL, EMBED THE MAT 18" IN A TERMINATION TRENCH. FILL AND COMPACT TERMINATION TRENCH WITH A COHESIVE FILL.

GUIDANCE TABLE FOR STORMWATER OUTFALL PROTECTION

PIPE DIAMETER		FLEXAMAT WIDTH	FLEXAMAT LENGTH (*MIN)
12"	8 CFS	5.5'	5'
18"	20 CFS	8'	8'
24"	30 CFS	8'	10'
36"	75 CFS	12'	16'
48"	100 CFS	16'	20'
60"	150 CFS	20'	25'

*CONSULT MANUFACTURER FOR GUIDANCE IF DESIGN DISCHARGE VARIES SIGNIFICANTLY FROM VALUES LISTED IN TABLE.
*LENGTH OF PROTECTION WILL VARY ON THE LENGTH OF THE SLOPE, DEGREE OF SLOPE, OR IF IT IS DISCHARGING ONTO A FLAT AREA. OUTFALLS DISCHARGING ONTO SLOPES, IT IS RECOMMENDED TO EXTEND FLEXAMAT PLUS THE LENGTH OF THE SLOPE AND 3' PAST THE TOE.

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REV - 3

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PREPARED FOR
QUAD CITIES INTERNATIONAL AIRPORT

NO.	DATE	DESCRIPTION	BY

AS-BUILT INFORMATION
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DRAWN BY: AJ
CHECKED BY: SM
DATE:

METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

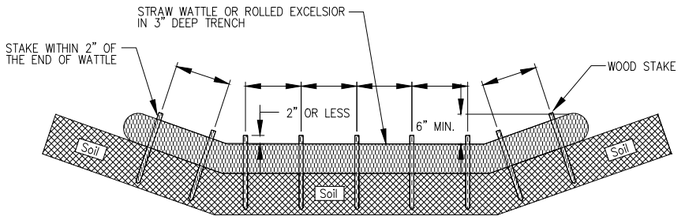
SWPPP DETAILS (1 OF 2)

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. 55 of 61

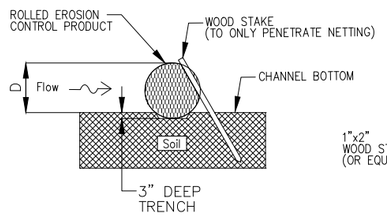
ROLLED EROSION CONTROL PRODUCTS

STAKING PATTERN GUIDE

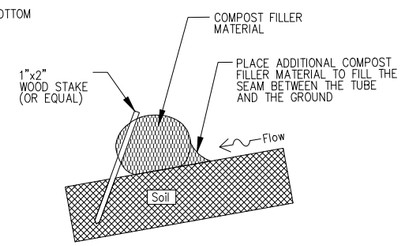


NOTES:
1. OVERLAP MINIMUM IS THE DIAMETER OF THE ROLL.
2. 4' SPACING FOR WATTLES.
3. 2' SPACING FOR ROLLED EXCELSIOR.
4. OR SPACE ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

STAKE DETAIL



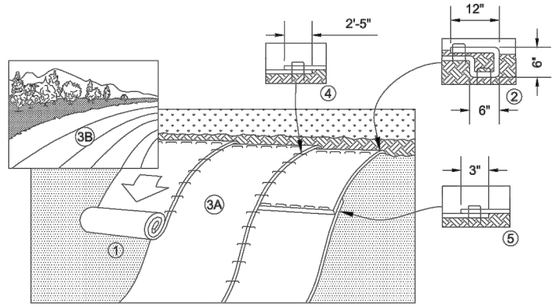
COMPOST FILTER SOCK DETAIL



WHEN COMPOST FILTER SOCK DITCH CHECK IS USED, PLACE A COMPOST BERM UPSTREAM OF THE FILTER SOCK (SEE IUM 805). A TRENCH IS NOT REQUIRED.

NOTES:
1. DRAWINGS ARE NOT TO SCALE.
2. ENDS OF WATTLES OR ROLLED EXCELSIOR SHALL BE TURNED AT LEAST 6" UPSLOPE.
3. RECOMMENDED STAKES ARE 1 1/8" WIDE x 1 1/8" THICK x 30" LONG.
4. STAKES SHALL NOT EXTEND ABOVE THE STRAW WATTLE MORE THAN 2".
5. SPACING: THE TOE OF THE UPSTREAM DITCH CHECK SHALL CREATE A HORIZONTAL LINE WITH THE TOP OF THE DOWNSTREAM DITCH CHECK.
6. WHEN COMPOST FILTER SOCK DITCH CHECK IS USED, PLACE A COMPOST BERM UPSTREAM OF THE FILTER SOCK (SEE IUM 805). A TRENCH IS NOT REQUIRED.

REFERENCE		STANDARD DWG. NO.
Project		IUM-514
Designed	Date	SHEET 1 OF 1
Checked	Date	DATE 08-19-2011
Approved	Date	

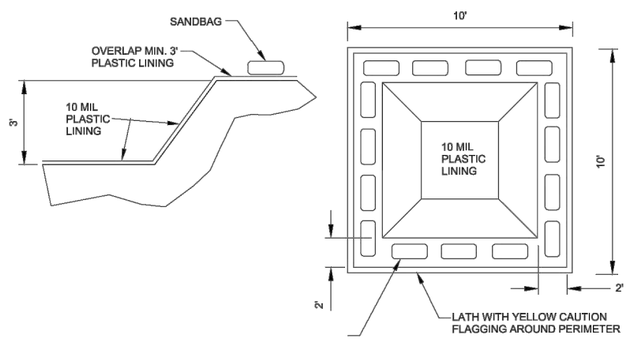


1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5 CM-12.5 CM) OVERLAP DEPENDING ON BLANKET TYPE.
5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE BLANKET WIDTH.

NOTE:
*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

EROSION CONTROL BLANKET (CITY STANDARD)

SCALE: NONE



NOTES:
1. WASHOUT FACILITY SHALL NOT BE LOCATED WITHIN 50-FT UPSTREAM OF STORM DRAINS, OPEN DITCHES OR WATER BODIES.
2. WASHOUT FACILITIES MUST BE CLEANED OR NEW FACILITIES CONSTRUCTED ONCE THE FACILITY IS 75% FULL. HARDENED CONCRETE SHALL BE REMOVED AND DISPOSED OF. IF THE FACILITY IS TO BE REUSED, LINE THE STRUCTURE WITH NEW 10 MIL POLYETHYLENE SHEETING FREE OF HOLES OR TEARS.
3. A SIGN SHALL BE POSTED ADJACENT TO THE FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS OF THE FACILITY. THE JOB SITE SUPERINTENDENT SHALL ENSURE THAT CONCRETE EQUIPMENT OPERATORS USE THE WASHOUT FACILITY.
4. IF NECESSARY, A CRUSHED STONE PATH SHALL BE CONSTRUCTED TO PROVIDE EASE OF ACCESS FOR EQUIPMENT.
5. WHEN THE FACILITY IS NO LONGER REQUIRED, THE HARDENED CONCRETE SHALL BE REMOVED AND DISPOSED OF, THE MATERIALS USED TO CONSTRUCT THE FACILITY SHALL BE REMOVED, AND THE HOLE BACKFILLED AND THE SURROUNDING AREA REPAIRED.

CONCRETE WASHOUT DETAIL (CITY STANDARD)

SCALE: NONE

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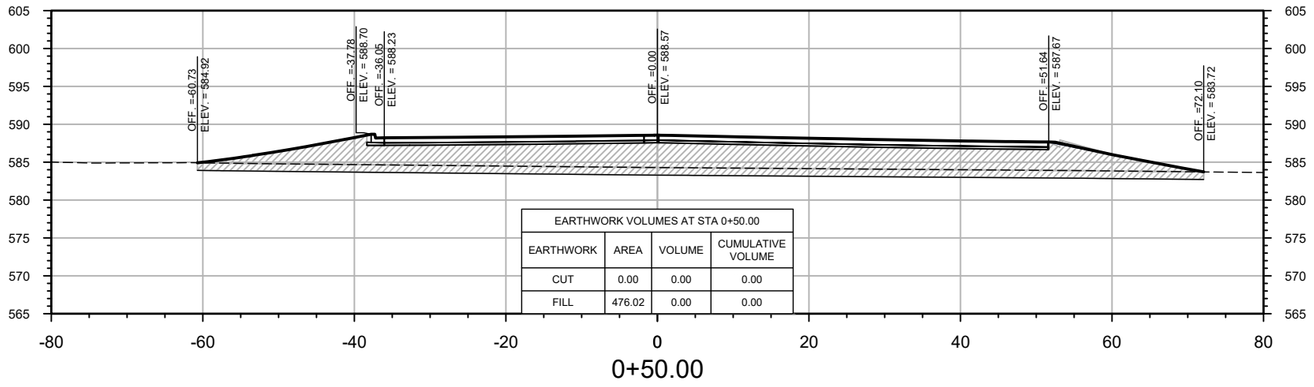
METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

SWPPP DETAILS (2 OF 2)

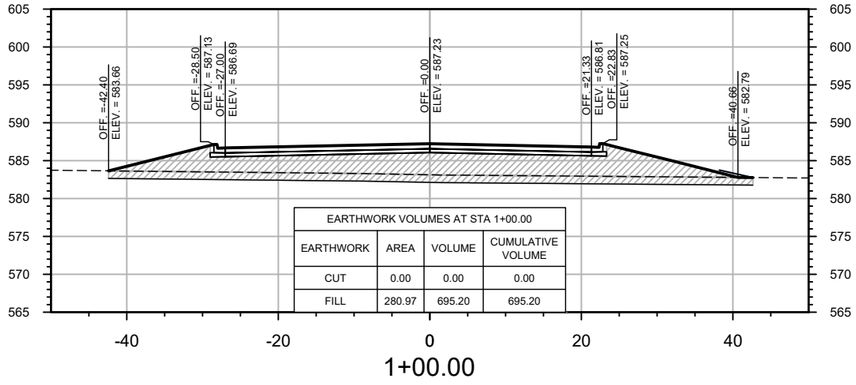
CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. 56 of 61



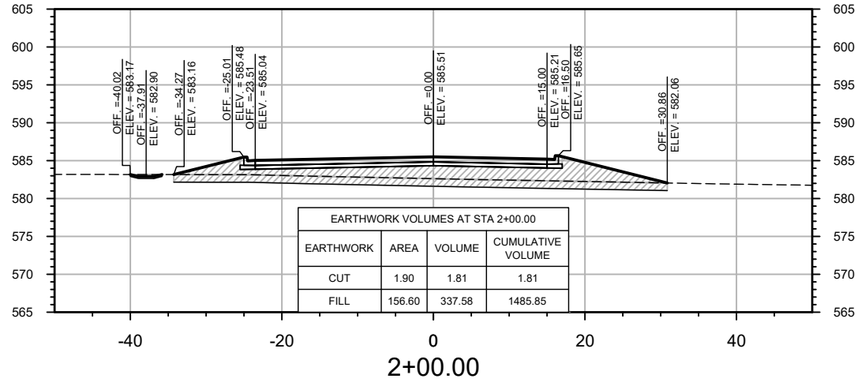
EARTHWORK VOLUMES AT STA 0+50.00			
EARTHWORK	AREA	VOLUME	CUMULATIVE VOLUME
CUT	0.00	0.00	0.00
FILL	476.02	0.00	0.00

0+50.00



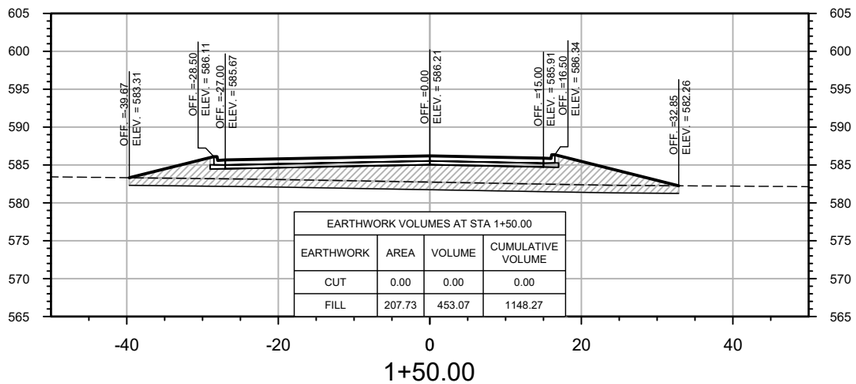
EARTHWORK VOLUMES AT STA 1+00.00			
EARTHWORK	AREA	VOLUME	CUMULATIVE VOLUME
CUT	0.00	0.00	0.00
FILL	280.97	695.20	695.20

1+00.00



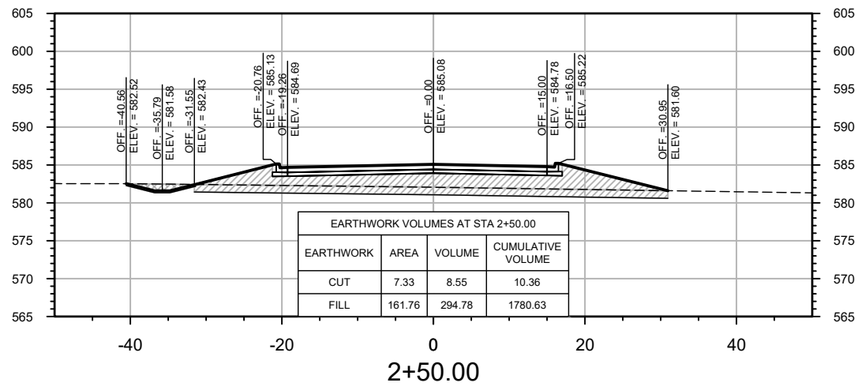
EARTHWORK VOLUMES AT STA 2+00.00			
EARTHWORK	AREA	VOLUME	CUMULATIVE VOLUME
CUT	1.90	1.81	1.81
FILL	156.60	337.58	1485.85

2+00.00



EARTHWORK VOLUMES AT STA 1+50.00			
EARTHWORK	AREA	VOLUME	CUMULATIVE VOLUME
CUT	0.00	0.00	0.00
FILL	207.73	453.07	1148.27

1+50.00



EARTHWORK VOLUMES AT STA 2+50.00			
EARTHWORK	AREA	VOLUME	CUMULATIVE VOLUME
CUT	7.33	8.55	10.36
FILL	161.76	294.78	1780.63

2+50.00

LEGEND

- EXISTING GROUND
- PROPOSED GROUND
- FILL AREA
- CUT AREA

20' 10' 0 20'

SCALE: 1" = 20'

CALL J.U.L.I.E BEFORE YOU DIG

CONSULTANTS

HDR

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DAVENPORT, IA 52807-3620
(563) 293-7684

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DESIGNED BY: MM
DRAWN BY: AJ
CHECKED BY: SM
DATE:

METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)

REALIGN THE GENERAL AVIATION ENTRANCE ROAD

CROSS SECTIONS (1 OF 5)
69TH STREET

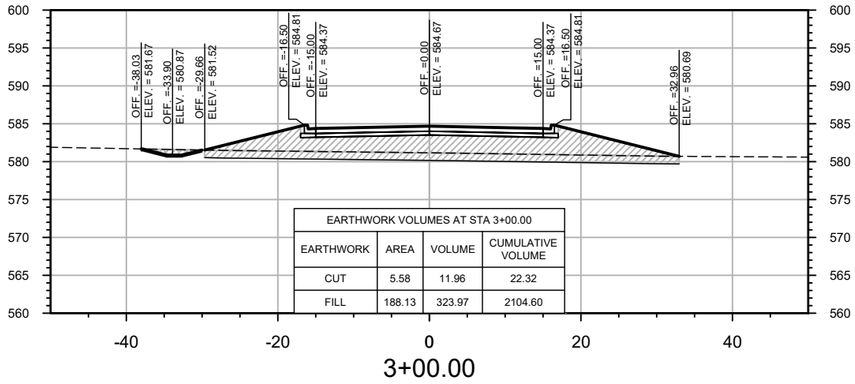
CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023

HDR PROJECT NO. 10404260

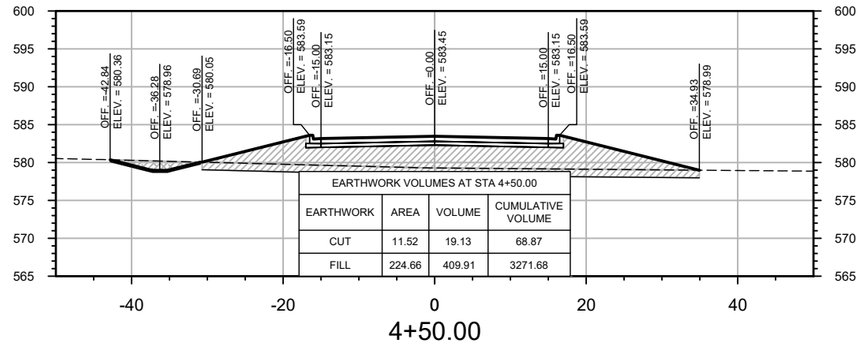
SHEET NO. **57 of 61**

Date: 11 Feb 2025 - 4:00pm User: STOJENSEN Layout: C501-01
Drawing Name: 25-CROSS SECTIONS.dwg



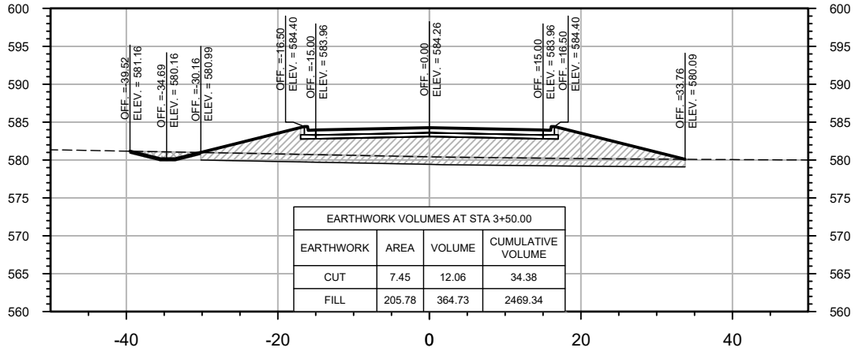
EARTHWORK VOLUMES AT STA 3+00.00			
EARTHWORK	AREA	VOLUME	CUMULATIVE VOLUME
CUT	5.58	11.96	22.32
FILL	188.13	323.97	2104.60

3+00.00



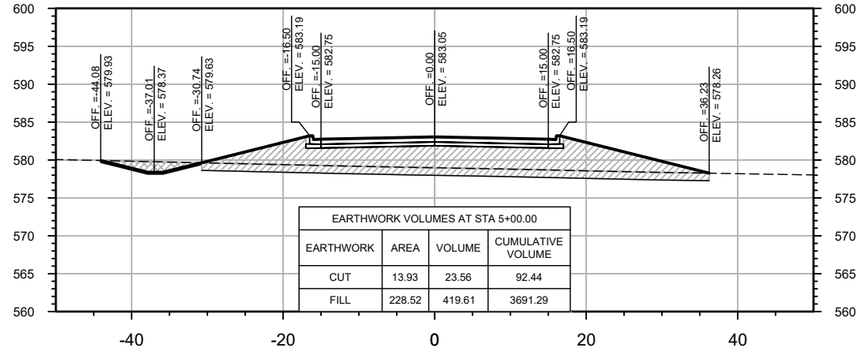
EARTHWORK VOLUMES AT STA 4+50.00			
EARTHWORK	AREA	VOLUME	CUMULATIVE VOLUME
CUT	11.52	19.13	68.87
FILL	224.66	409.91	3271.68

4+50.00



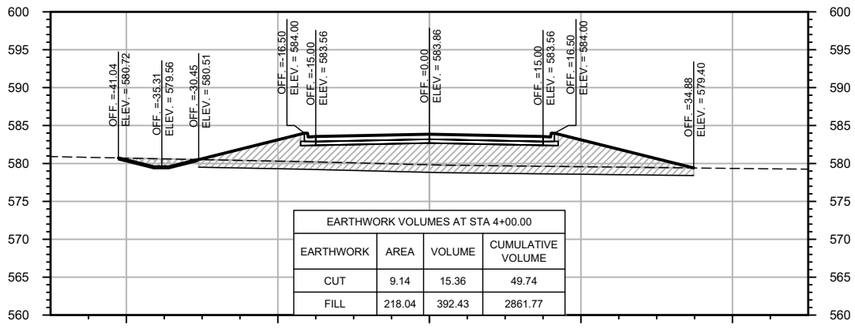
EARTHWORK VOLUMES AT STA 3+50.00			
EARTHWORK	AREA	VOLUME	CUMULATIVE VOLUME
CUT	7.45	12.06	34.38
FILL	205.78	364.73	2469.34

3+50.00



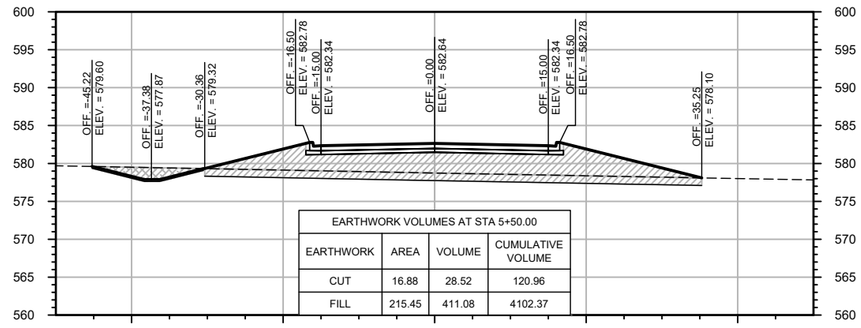
EARTHWORK VOLUMES AT STA 5+00.00			
EARTHWORK	AREA	VOLUME	CUMULATIVE VOLUME
CUT	13.93	23.56	92.44
FILL	228.52	419.61	3691.29

5+00.00



EARTHWORK VOLUMES AT STA 4+00.00			
EARTHWORK	AREA	VOLUME	CUMULATIVE VOLUME
CUT	9.14	15.36	49.74
FILL	218.04	392.43	2861.77

4+00.00



EARTHWORK VOLUMES AT STA 5+50.00			
EARTHWORK	AREA	VOLUME	CUMULATIVE VOLUME
CUT	16.88	28.52	120.96
FILL	215.45	411.08	4102.37

5+50.00

LEGEND

- EXISTING GROUND
- PROPOSED GROUND
- FILL AREA
- CUT AREA

20' 10' 0 20'

SCALE: 1" = 20'

CALL J.U.L.I.E BEFORE YOU DIG

CONSULTANTS
HDR
4620 E 53RD STREET
DAVENPORT, IA 52807-3620
(563) 293-7684

PREPARED FOR
QUAD CITIES INTERNATIONAL AIRPORT

NO.	DATE	DESCRIPTION	BY
		AS-BUILT INFORMATION	
		CONTRACTOR:	DATE:
		WORK STAKED BY:	
		INSPECTOR'S ACCEPTANCE BY:	DATE:
		FIELD VERIFICATION BY:	DATE:
		DRAWINGS CORRECTED BY:	DATE:

DESIGNED BY: MM
DRAWN BY: AJ
CHECKED BY: SM
DATE:

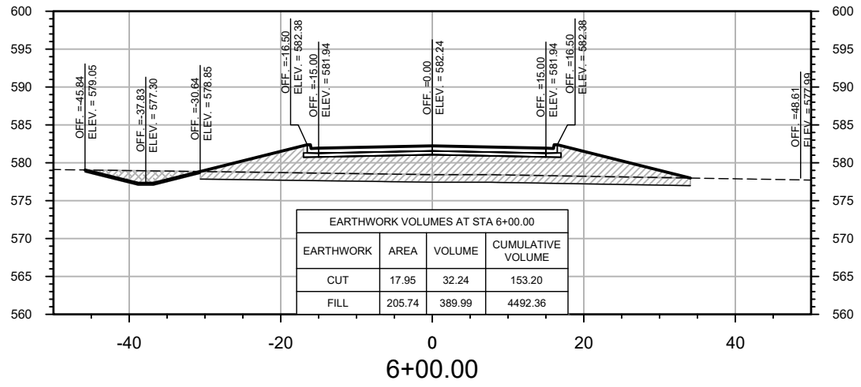
METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

CROSS SECTIONS (2 OF 5)
69TH STREET

CLIENT APPROVAL	CLIENT APPROVAL

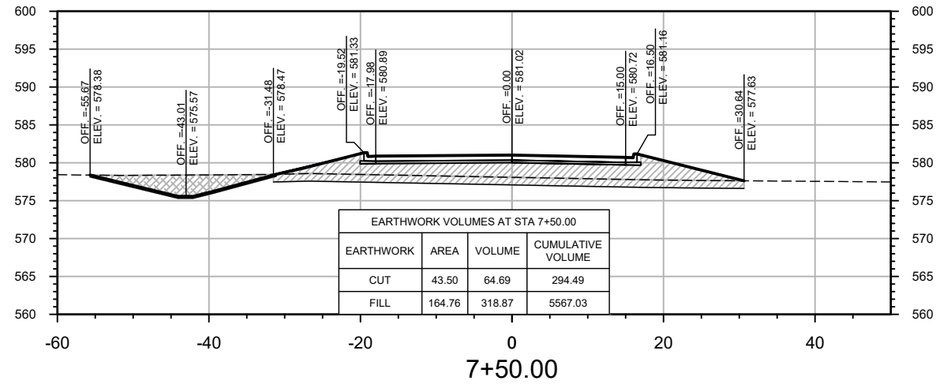
PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. **58 of 61**

Date: 11 Feb 2025 - 4:00pm User: STOJENSEN Layout: C501-02
Drawing Name: 25-CROSS SECTIONS.dwg



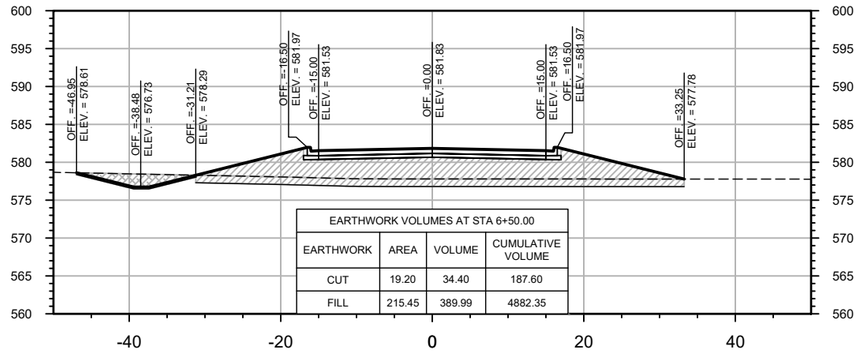
EARTHWORK VOLUMES AT STA 6+00.00			
EARTHWORK	AREA	VOLUME	CUMULATIVE VOLUME
CUT	17.95	32.24	153.20
FILL	205.74	389.99	4492.36

6+00.00



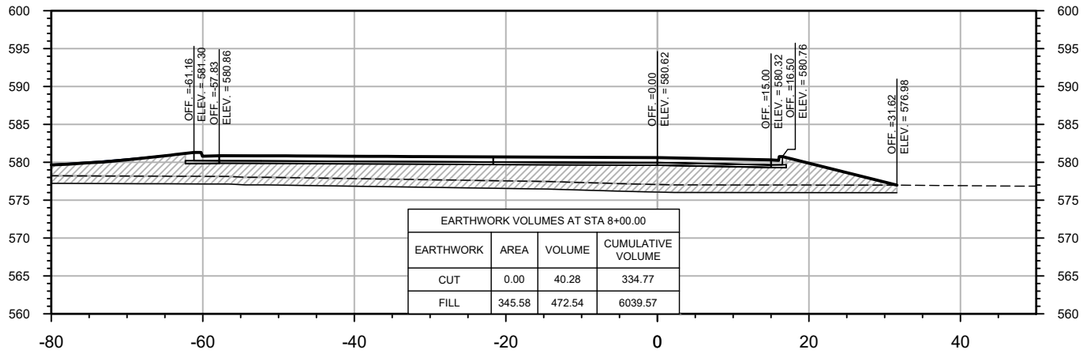
EARTHWORK VOLUMES AT STA 7+50.00			
EARTHWORK	AREA	VOLUME	CUMULATIVE VOLUME
CUT	43.50	64.69	294.49
FILL	164.76	318.87	5567.03

7+50.00



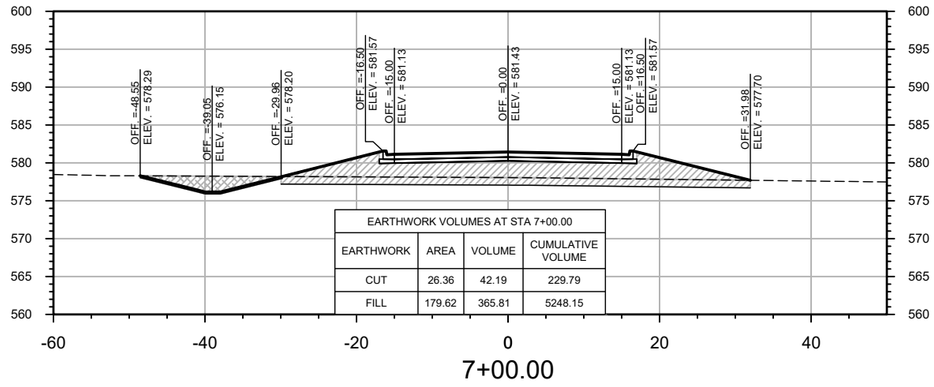
EARTHWORK VOLUMES AT STA 6+50.00			
EARTHWORK	AREA	VOLUME	CUMULATIVE VOLUME
CUT	19.20	34.40	187.60
FILL	215.45	389.99	4882.35

6+50.00



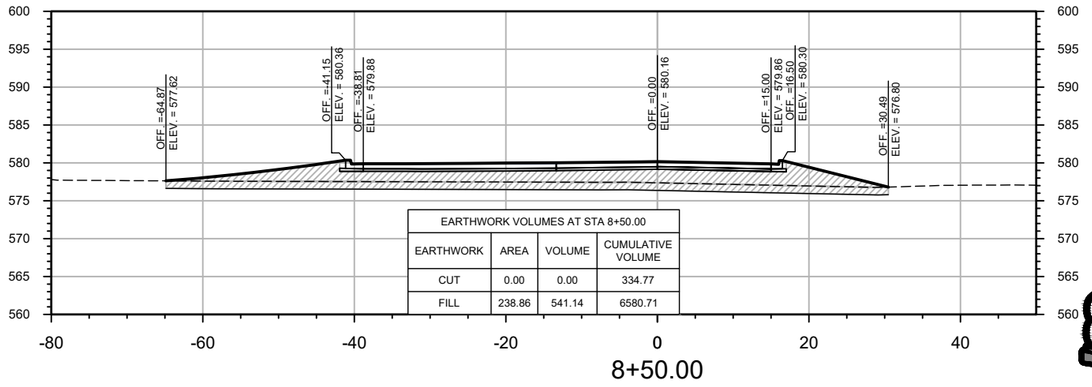
EARTHWORK VOLUMES AT STA 8+00.00			
EARTHWORK	AREA	VOLUME	CUMULATIVE VOLUME
CUT	0.00	40.28	334.77
FILL	345.58	472.54	6039.57

8+00.00



EARTHWORK VOLUMES AT STA 7+00.00			
EARTHWORK	AREA	VOLUME	CUMULATIVE VOLUME
CUT	26.36	42.19	229.79
FILL	179.62	365.81	5248.15

7+00.00



EARTHWORK VOLUMES AT STA 8+50.00			
EARTHWORK	AREA	VOLUME	CUMULATIVE VOLUME
CUT	0.00	0.00	334.77
FILL	238.86	541.14	6580.71

8+50.00

LEGEND

- EXISTING GROUND
- PROPOSED GROUND
- FILL AREA
- CUT AREA

20' 10' 0 20'

SCALE: 1" = 20'

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CONSULTANTS
HDR
4620 E 53RD STREET
DAVENPORT, IA 52807-3620
(563) 293-7684

PREPARED FOR
QUAD CITIES INTERNATIONAL AIRPORT

NO.	DATE	DESCRIPTION	BY
		AS-BUILT INFORMATION	
		CONTRACTOR:	
		WORK STAKED BY: DATE:	
		INSPECTOR'S ACCEPTANCE BY: DATE:	
		FIELD VERIFICATION BY: DATE:	
		DRAWINGS CORRECTED BY: DATE:	

DESIGNED BY: MM
DRAWN BY: AJ
CHECKED BY: SM
DATE:

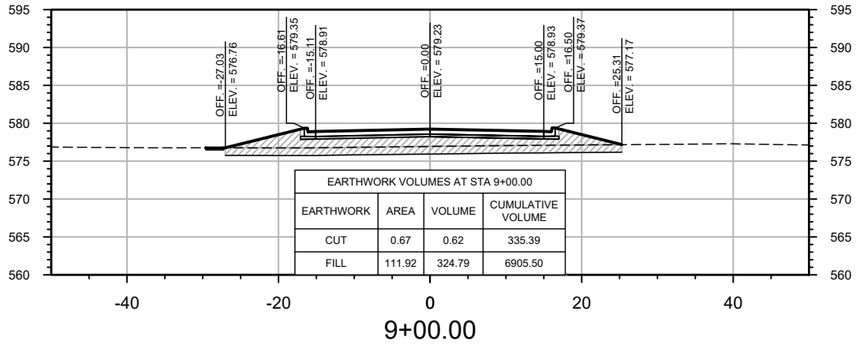
METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

CROSS SECTIONS (3 OF 5)
69TH STREET

CLIENT APPROVAL	CLIENT APPROVAL

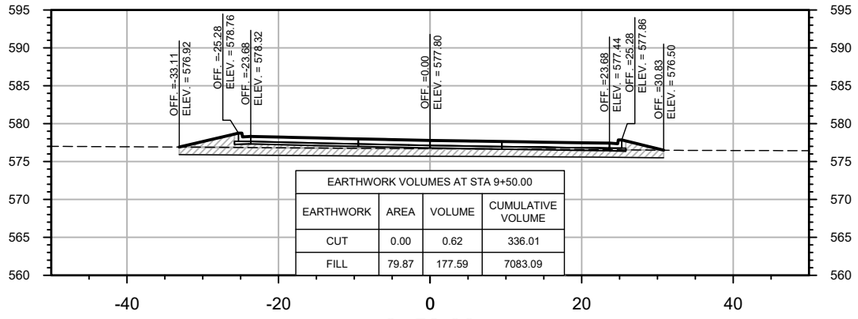
PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. **59 of 61**

Date: 11 Feb 2025 - 4:00pm User: STOJENSEN Layout: C501-03
Drawing Name: 25-CROSS SECTIONS.dwg



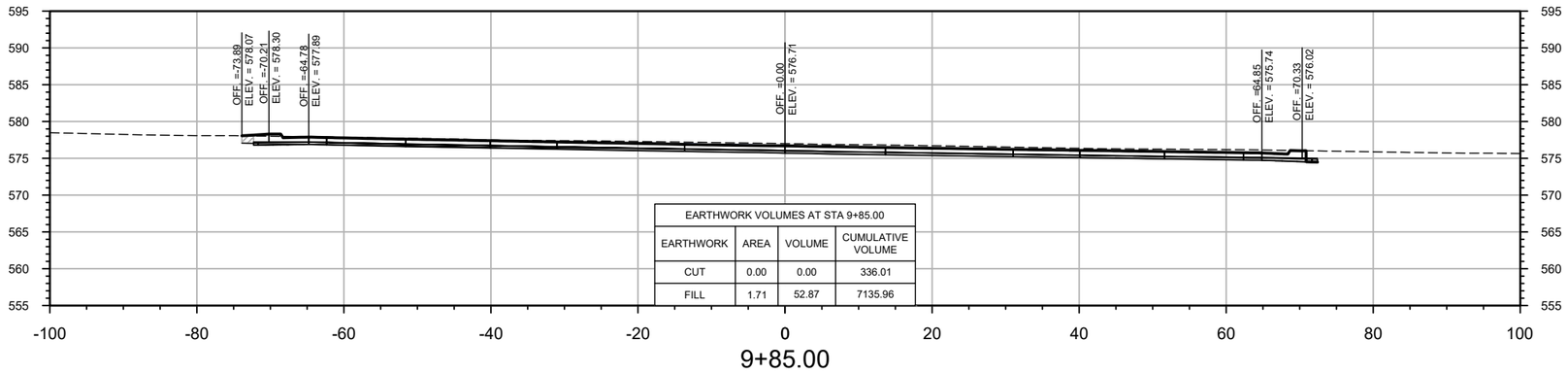
EARTHWORK VOLUMES AT STA 9+00.00			
EARTHWORK	AREA	VOLUME	CUMULATIVE VOLUME
CUT	0.67	0.62	335.39
FILL	111.92	324.79	6905.50

9+00.00



EARTHWORK VOLUMES AT STA 9+50.00			
EARTHWORK	AREA	VOLUME	CUMULATIVE VOLUME
CUT	0.00	0.62	336.01
FILL	79.87	177.59	7083.09

9+50.00



EARTHWORK VOLUMES AT STA 9+85.00			
EARTHWORK	AREA	VOLUME	CUMULATIVE VOLUME
CUT	0.00	0.00	336.01
FILL	1.71	52.87	7135.96

9+85.00

LEGEND

- EXISTING GROUND
- PROPOSED GROUND
- FILL AREA
- CUT AREA

CONSULTANTS
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4620 E 53RD STREET
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(563) 293-7684

PREPARED FOR
QUAD CITIES INTERNATIONAL AIRPORT

NO.	DATE	DESCRIPTION	BY
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		WORK STAKED BY: DATE:	
		INSPECTOR'S ACCEPTANCE BY: DATE:	
		FIELD VERIFICATION BY: DATE:	
		DRAWINGS CORRECTED BY: DATE:	

CALL J.U.L.I.E
BEFORE YOU DIG

DESIGNED BY: MM
DRAWN BY: AJ
CHECKED BY: SM
DATE:

20' 10' 0 20'
SCALE: 1" = 20'

METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)

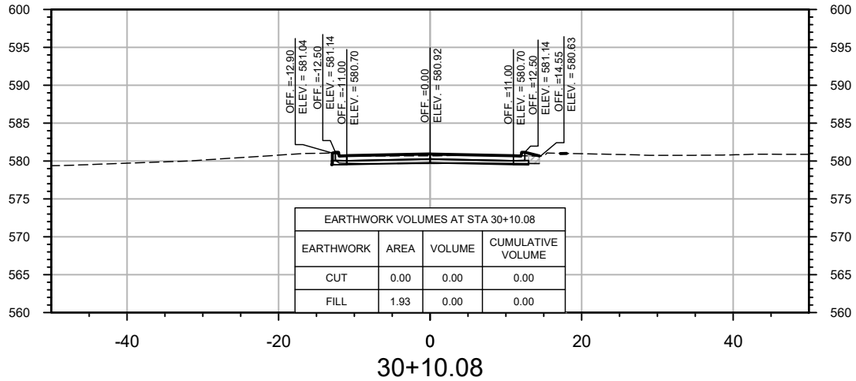
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

CROSS SECTIONS (4 OF 5)
69TH STREET

CLIENT APPROVAL	CLIENT APPROVAL

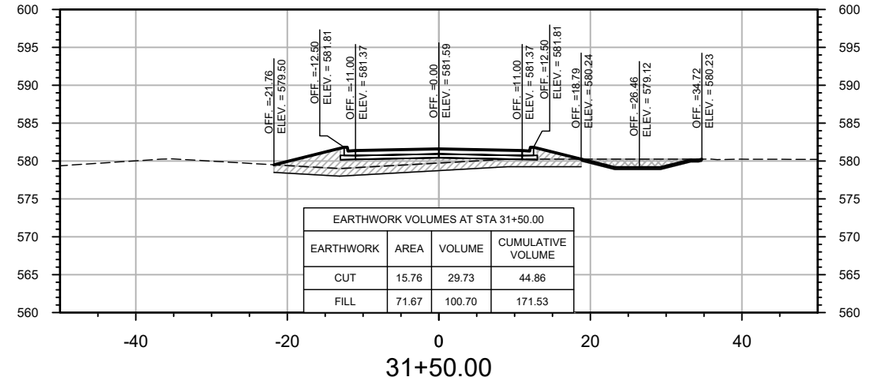
PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. **60 of 61**

Date: 11 Feb 2025 - 4:00pm User: STOJENSEN Layout: CS01-04
Drawing Name: 25-CROSS SECTIONS.dwg



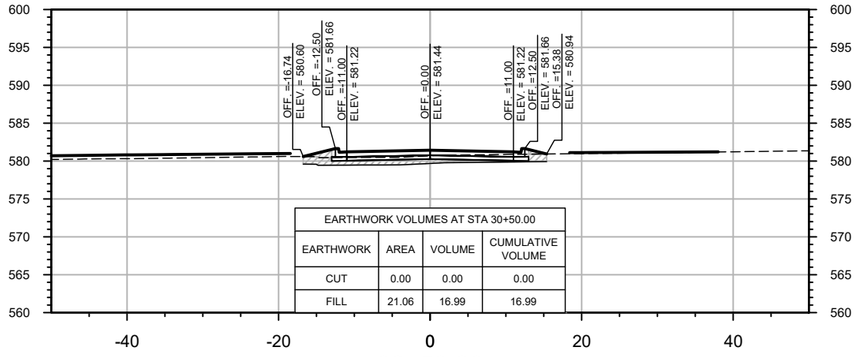
EARTHWORK VOLUMES AT STA 30+10.08			
EARTHWORK	AREA	VOLUME	CUMULATIVE VOLUME
CUT	0.00	0.00	0.00
FILL	1.93	0.00	0.00

30+10.08



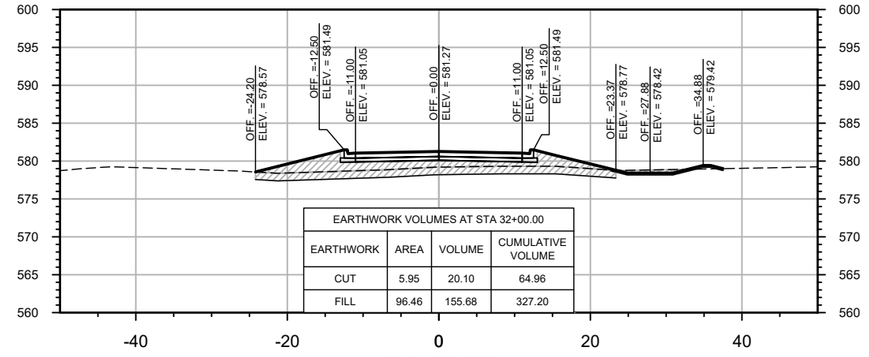
EARTHWORK VOLUMES AT STA 31+50.00			
EARTHWORK	AREA	VOLUME	CUMULATIVE VOLUME
CUT	15.76	29.73	44.86
FILL	71.67	100.70	171.53

31+50.00



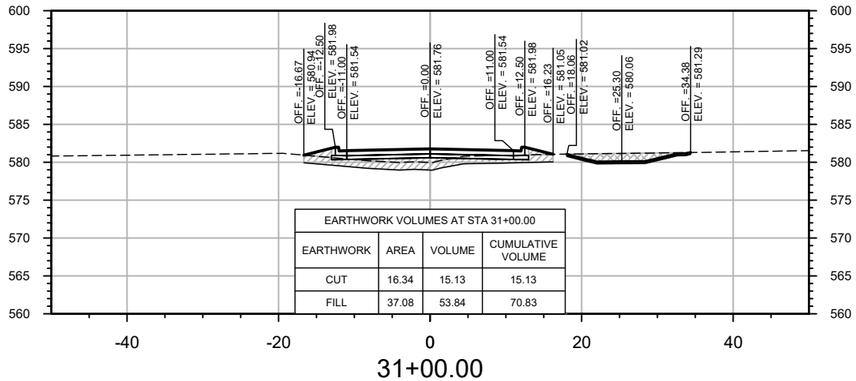
EARTHWORK VOLUMES AT STA 30+50.00			
EARTHWORK	AREA	VOLUME	CUMULATIVE VOLUME
CUT	0.00	0.00	0.00
FILL	21.06	16.99	16.99

30+50.00



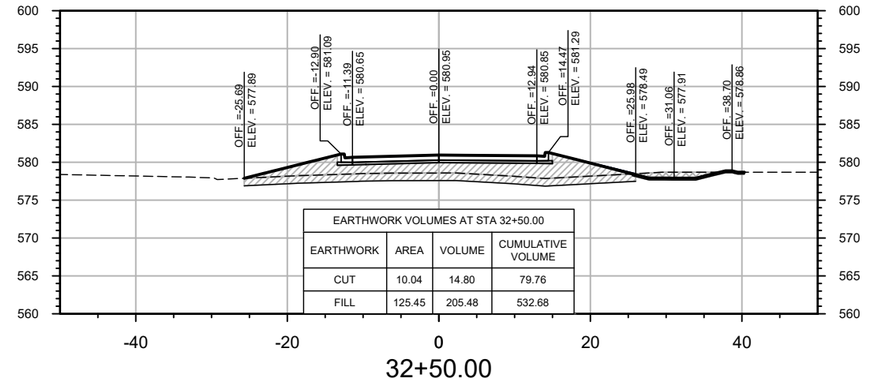
EARTHWORK VOLUMES AT STA 32+00.00			
EARTHWORK	AREA	VOLUME	CUMULATIVE VOLUME
CUT	5.95	20.10	64.96
FILL	96.46	155.68	327.20

32+00.00



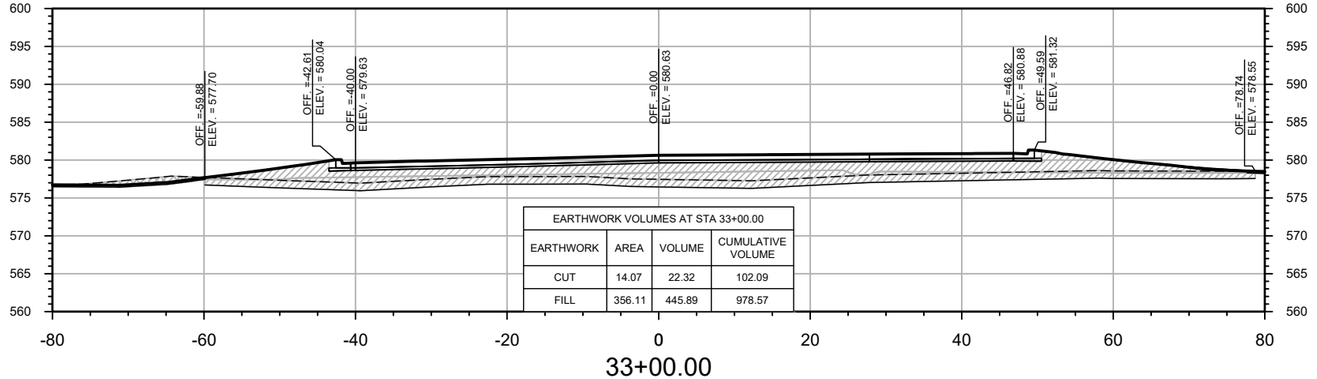
EARTHWORK VOLUMES AT STA 31+00.00			
EARTHWORK	AREA	VOLUME	CUMULATIVE VOLUME
CUT	16.34	15.13	15.13
FILL	37.08	53.84	70.83

31+00.00



EARTHWORK VOLUMES AT STA 32+50.00			
EARTHWORK	AREA	VOLUME	CUMULATIVE VOLUME
CUT	10.04	14.80	79.76
FILL	125.45	205.48	532.68

32+50.00



EARTHWORK VOLUMES AT STA 33+00.00			
EARTHWORK	AREA	VOLUME	CUMULATIVE VOLUME
CUT	14.07	22.32	102.09
FILL	356.11	445.89	978.57

33+00.00

LEGEND

- EXISTING GROUND
- PROPOSED GROUND
- FILL AREA
- CUT AREA

20' 10' 0 20'

SCALE: 1" = 20'

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DAVENPORT, IA 52807-3620
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PREPARED FOR
QUAD CITIES INTERNATIONAL AIRPORT

NO.	DATE	DESCRIPTION	BY
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		CONTRACTOR:	DATE:
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		FIELD VERIFICATION BY:	DATE:
		DRAWINGS CORRECTED BY:	DATE:

DESIGNED BY: MM
DRAWN BY: AJ
CHECKED BY: SM
DATE:

METROPOLITAN AIRPORT AUTHORITY OF ROCK ISLAND COUNTY (QUAD CITIES INTERNATIONAL AIRPORT)
REALIGN THE GENERAL AVIATION ENTRANCE ROAD

CROSS SECTIONS (5 OF 5)
75TH AVENUE

CLIENT APPROVAL	CLIENT APPROVAL

PROJECT NO. MLI-5023
HDR PROJECT NO. 10404260
SHEET NO. **61 of 61**

Date: 11 Feb 2025 - 4:00pm User: STOJENSEN Layout: CS01-05
Drawing Name: 25-CROSS SECTIONS.dwg