

100% FOR BID CONSTRUCTION PLANS FOR VERMILION REGIONAL AIRPORT AUTHORITY VERMILION REGIONAL AIRPORT DANVILLE, ILLINOIS

DNV-5046 STATE/LOCAL PROGRAM UPGRADE AIRPORT PERIMETER FENCE

JULY 28, 2023

SUMMARY OF QUANTITIES - BASE BID			
PAY ITEM	DESCRIPTION	QTY	UNIT
AR150510	ENGINEER'S FIELD OFFICE	1	LSUM
AR150520	MOBILIZATION	1	LSUM
AR162722	*ELECTRIC GATE - 22'	1	EACH
AR162900	REMOVE CLASS E FENCE	590	FOOT
AR162908	*REMOVE ELECTRIC GATE	1	EACH
AR800300	PANEL FENCE	555	FOOT
AR800301	PANEL SINGLE SWING GATE	2	EACH
AR800302	PANEL DOUBLE SWING GATE	1	EACH
AR800303	*REMOVE ELECTRIC APU	1	EACH

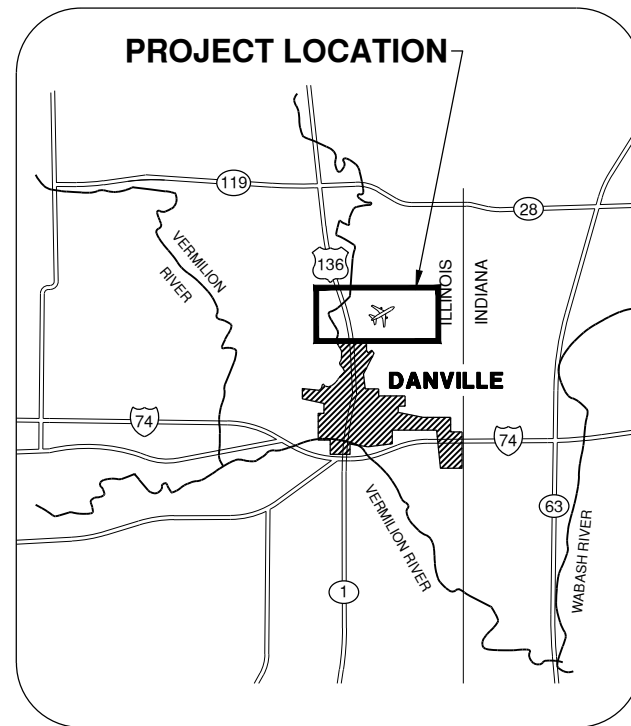
* DENOTES SPECIALTY ITEM

SUMMARY OF QUANTITIES - ADDITIVE ALTERNATE #1			
PAY ITEM	DESCRIPTION	QTY	UNIT
AS162506	CLASS E FENCE 6'	425	FOOT
AS162900	REMOVE CLASS E FENCE	425	FOOT

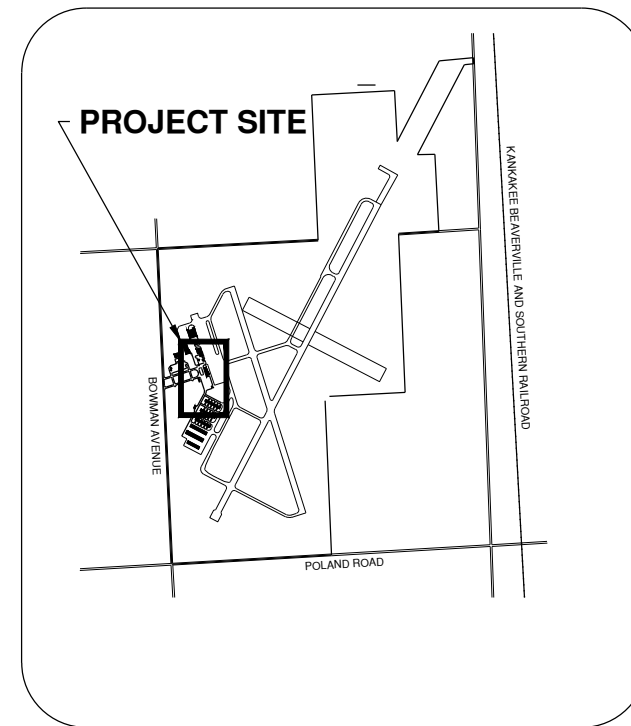
SUMMARY OF QUANTITIES - ADDITIVE ALTERNATE #2			
PAY ITEM	DESCRIPTION	QTY	UNIT
AT162506	CLASS E FENCE 6'	45	FOOT
AT162722	*ELECTRIC GATE - 22'	1	EACH
AT162900	REMOVE CLASS E FENCE	45	FOOT
AT162908	*REMOVE ELECTRIC GATE	1	EACH

* DENOTES SPECIALTY ITEM

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LOCATION MAP



SITE PLAN

811 Know what's below. Call before you dig. COMMON GROUND ALLIANCE www.call811.com or Phone: 811

THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. 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 HIS 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 ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH MAINS AND SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

CALL 911 IN THE EVENT IN WHICH DAMAGE RESULTS IN THE RELEASE OF NATURAL GAS.

CALL J.U.L.I.E. BEFORE EXCAVATING
1-800-892-0123

TOWNSHIP: 20 NORTH
RANGE: 11 WEST
SECTION: 15
COUNTY: VERMILION
CIVIL TOWNSHIP: NEWELL

COMMON TRAFFIC ADVISORY FREQUENCY 122.7

APPROXIMATE MAXIMUM HEIGHT OF EQUIPMENT ABOVE GROUND IS 25 FT.

VERMILION REGIONAL AIRPORT AUTHORITY
VERMILION REGIONAL AIRPORT
DANVILLE, ILLINOIS

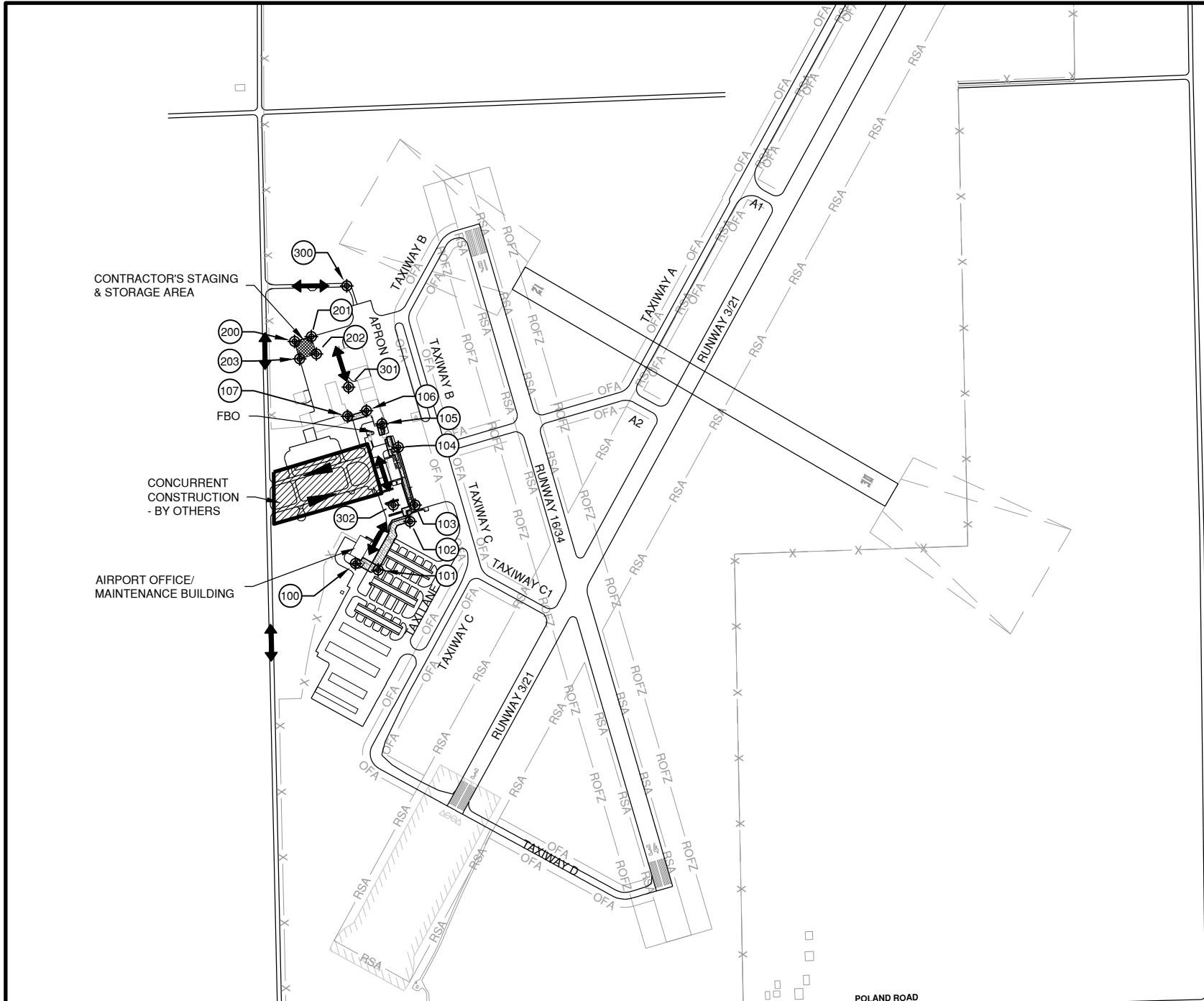
APPROVED *Eric Hills*
DATE 26 July 2023

EXP. 11/30/23
ERIC HILLS
662.070576
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS
Eric Hills
7/26/23

CMT
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SUBMITTED BY *Eric Hills*
DATE July 26, 2023

CMT JOB NUMBER: 22004867

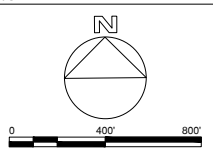


NOTES

1. ALL RUNWAYS, TAXIWAYS, AND APRONS SHALL BE KEPT OPEN TO AIRPORT TRAFFIC DURING CONSTRUCTION.
2. THE CONTRACTOR SHALL REMAIN WITHIN 25' OF THE EXISTING FENCE LINE AT ALL TIMES DURING CONSTRUCTION. AT NO TIME SHOULD THE CONTRACTOR OR HIS PERSONNEL ACCESS ANY ACTIVE AIRFIELD PAVEMENTS.
3. WHEN CONFLICTS ARISE BETWEEN CONSTRUCTION ACTIVITIES AND AIRCRAFT OPERATIONS AND SAFETY, AIRCRAFT OPERATIONS AND SAFETY SHALL TAKE PRECEDENCE AND SHALL GOVERN. FINAL AUTHORITY IN THE APPROVAL OF CONSTRUCTION SEQUENCING LIES WITH THE AIRPORT MANAGER.
4. THE CONTRACTOR WILL BE PERMITTED TO STORE EQUIPMENT AND MATERIALS AT THE LOCATIONS SHOWN.
5. BROKEN CONCRETE AND OTHER WASTE MATERIALS SHALL BE DISPOSED OF BY THE CONTRACTOR OFF OF AIRPORT PROPERTY.
6. VEHICLES AND EQUIPMENT SHALL NOT BE ALLOWED WITHIN 95' FROM THE CENTERLINE OF ACTIVE TAXIWAYS OR 250' FROM THE CENTERLINE OF ACTIVE RUNWAYS.
7. ALL PAVEMENTS, DRIVES, OR ANY OTHER AREAS UTILIZED BY THE CONTRACTOR FOR HAUL ROADS OR STORAGE AREAS SHALL BE MAINTAINED AND REPAIRED IN KIND BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AND THE AIRPORT. NO ADDITIONAL COMPENSATION SHALL BE MADE TO THE CONTRACTOR FOR THIS WORK.
8. EXISTING TURF AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY HIM AT HIS EXPENSE TO THE SATISFACTION OF THE ENGINEER AND THE AIRPORT.
9. IT WILL BE NECESSARY FOR THE CONTRACTOR TO MAKE HIS OWN FIELD INVESTIGATION TO DETERMINE THE EXACT LOCATION OF THE UNDERGROUND UTILITIES AT CRITICAL POINTS SO AS TO AVOID ANY DAMAGE. ANY UTILITY, INCLUDING AIRFIELD ELECTRICAL CABLE AND LIGHTS, DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY HIM AT HIS OWN EXPENSE IN A MANNER WHICH IS SATISFACTORY TO THE ENGINEER AND TO THE OWNER OF THE UTILITY. ANY REPAIRS THAT MUST BE MADE BY THE OWNER OF THE UTILITY SHALL HAVE THE COST REIMBURSED TO THE UTILITY BY THE CONTRACTOR. AIRFIELD LIGHTING CABLES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY A QUALIFIED ELECTRICIAN WITH THE COSTS TO BE BORNE BY THE CONTRACTOR.
10. THE CONTRACTOR SHALL MAINTAIN A SECURE AIRFIELD PERIMETER THROUGHOUT THE DURATION OF THE PROJECT, COST OF ERECTION AND REMOVAL OF TEMPORARY FENCE WILL BE INCIDENTAL TO CONTRACT.
11. CONTRACTOR'S ACCESS SHALL BE AS FOLLOWS:
 - A. THE CONTRACTOR'S ACCESS TO WORK SHALL BE AS SHOWN IN THE PLANS.
 - B. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND TEMPORARY EASEMENTS FOR THE PUBLIC ACCESS ROAD(S) SHOWN AND SHALL COMPLY WITH ALL REQUIREMENTS, LOAD RESTRICTIONS, & TRAFFIC CONTROL SIGNAGE REQUIRED BY THE CITY, COUNTY, TOWNSHIP, OR I.D.O.T.
 - C. DURING ADVERSE WEATHER THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE WORK AT NO ADDITIONAL COST TO THE CONTRACT. NO EXTENSION OF THE CONTRACT TIME WILL BE CONSIDERED FOR DELAYS DUE TO LACK OF ADEQUATE ACCESS TO THE WORK SITE.
 - D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE ACCESS GATE(S) CLOSED DURING WORK HOURS. FOR DELIVERIES THE CONTRACTOR SHALL POST A COMPETENT SECURITY GUARD TO CONTROL ACCESS AT THE GATE. THE CONTRACTOR SHALL REPLACE ANY UNSATISFACTORY SECURITY GUARDS AS DIRECTED.
 - E. THE CONTRACTOR SHALL CLOSE AND LOCK THE ACCESS GATE(S) UPON LEAVING THE SITE.
 - F. ALL COSTS RELATING TO CONTRACTOR'S ACCESS AND SECURITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - G. THE CONTRACTOR SHALL STORE EQUIPMENT AND MATERIALS IN SUCH A WAY AS NOT TO VIOLATE AIRPORT PART 77 SURFACES, OR RUNWAY AND TAXIWAY OBSTACLE FREE AREAS.
 - H. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ACTIVE LANDSIDE AND AIRFIELD PAVEMENTS WHICH ARE USED BY OR CROSSED BY HIS VEHICLES ACCESSING THE WORK.



License No. #####
CONSULTANTS



100% FOR BID
JULY 28, 2023

UPGRADE AIRPORT PERIMETER FENCE

OWNER



VERMILION REGIONAL AIRPORT
VERMILION REGIONAL AIRPORT
AUTHORITY
DANVILLE, ILLINOIS

MARK | DATE | DESCRIPTION

STATE/LOCAL PROGRAM	DNV-5046	CONTRACT: VE057
CMT PROJECT NO:	22004867	
CAD DWG FILE:	DNV-5046-GH100.DWG	
DESIGNED BY:	DJR	
DRAWN BY:	CMT	
CHECKED BY:	MJD	
APPROVED BY:	EMH	
COPYRIGHT:		

AIRPORT SITE PLAN

POINTS OF INTEREST - FAA USE ONLY

POINT	LATITUDE	LONGITUDE	ELEVATION	DESCRIPTION
100	N40° 11' 51.76"	W87° 36' 05.90"	658.00	WORK AREA
101	N40° 11' 51.38"	W87° 36' 04.21"	658.00	WORK AREA
102	N40° 11' 54.14"	W87° 36' 01.80"	662.00	WORK AREA
103	N40° 11' 55.08"	W87° 36' 01.41"	662.00	WORK AREA
104	N40° 11' 58.40"	W87° 36' 02.63"	661.00	WORK AREA
105	N40° 11' 59.75"	W87° 36' 03.84"	665.00	WORK AREA
106	N40° 12' 00.51"	W87° 36' 04.98"	668.00	WORK AREA
107	N40° 12' 00.20"	W87° 36' 06.40"	661.00	WORK AREA
200	N40° 12' 04.51"	W87° 36' 10.32"	664.00	STAGING AND STORAGE
201	N40° 12' 04.78"	W87° 36' 09.06"	667.00	STAGING AND STORAGE
202	N40° 12' 03.78"	W87° 36' 08.69"	666.00	STAGING AND STORAGE
203	N40° 12' 03.51"	W87° 36' 09.95"	665.00	STAGING AND STORAGE
300	N40° 12' 07.67"	W87° 36' 06.38"	671.00	HAUL ROUTE
301	N40° 12' 01.86"	W87° 36' 06.31"	664.00	HAUL ROUTE
302	N40° 11' 55.09"	W87° 36' 03.04"	662.00	HAUL ROUTE

LEGEND

- AREA OF CONSTRUCTION
- CONCURRENT PROJECT CONTRACTOR'S ACCESS
- CONTRACTOR'S ACCESS THIS PROJECT
- TAXIWAY OBJECT FREE AREA
- RUNWAY SAFETY AREA
- RUNWAY 16/34 OBSTACLE FREE ZONE
- AIRPORT PERIMETER FENCE
- FAA AIRSPACE CRITICAL POINT

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0. GENERAL

- THE CONTRACTOR AND ALL SUBCONTRACTORS SHALL FOLLOW THE REQUIREMENTS OF THE AIRPORT'S APPROVED CONSTRUCTION SAFETY AND PHASING PLAN (CSPP), FAA AC 150/5370-2 (LATEST VERSION), AND ALL AIRPORT SAFETY AND SECURITY REQUIREMENTS.
- PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE AIRPORT FOR APPROVAL A SAFETY PLAN COMPLIANCE DOCUMENT (SPCD) IN ACCORDANCE WITH FAA AC 150/5370-2 (LATEST VERSION). NO CONSTRUCTION ACTIVITY SHALL BEGIN UNTIL THE AIRPORT HAS APPROVED THE SPCD.
- THE CSPP COVERS OPERATIONAL SAFETY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INDIVIDUAL SAFETY OF HIS/HER PERSONNEL AND MEETING OSHA REQUIREMENTS.
- PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL PROVIDE A LIST OF SUBCONTRACTORS AND MATERIAL SUPPLIERS.
- PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL SIGN THE SWPPP CERTIFICATION STATEMENT.
- ALL CONTRACTOR COSTS ASSOCIATED WITH THE REQUIREMENTS LISTED ON THIS SHEET SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- EXCESS EARTH, BROKEN ASPHALT, AND CONCRETE SHALL BE DISPOSED OF BY THE CONTRACTOR OFF AIRPORT PROPERTY UNLESS OTHERWISE DIRECTED BY THE AIRPORT.

1. COORDINATION

- PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL ATTEND A PRE-CONSTRUCTION CONFERENCE WITH THE AIRPORT, ENGINEER, AND ILLINOIS DIVISION OF AERONAUTICS (IDA). THE COST OF PREPARING FOR AND ATTENDING THE PRE-CONSTRUCTION CONFERENCE SHALL BE INCIDENTAL TO THE CONTRACT.
- ON OR BEFORE THE PRE-CONSTRUCTION CONFERENCE, THE CONTRACTOR SHALL SUBMIT A PROPOSED SCHEDULE FOR THE PROJECT. THE SCHEDULE SHALL INCLUDE A START AND COMPLETION DATE FOR EACH ITEM OF WORK. THE SCHEDULE SHALL BE UPDATED ON A WEEKLY BASIS. ALL COSTS ASSOCIATED WITH THE SCHEDULE SHALL BE INCIDENTAL TO THE CONTRACT.

2. PHASING

- TOTAL CONTRACT TIME SHALL BE 36 CALENDAR DAYS.
- PHASING SHALL BE AS NOTED BELOW AND AS SHOWN ON THE CONSTRUCTION ACTIVITY PLAN (CAP) SHEETS.

3. CONSTRUCTION ACTIVITY AREAS

- ALL RUNWAYS, TAXIWAYS AND APRONS SHALL BE KEPT OPEN TO AIRCRAFT TRAFFIC DURING CONSTRUCTION EXCEPT AS ALLOWED IN THE PLANS.
- WHEN CONFLICTS ARISE BETWEEN CONSTRUCTION ACTIVITIES AND AIRCRAFT OPERATIONS AND SAFETY, AIRCRAFT OPERATIONS AND SAFETY SHALL TAKE PRECEDENCE AND SHALL GOVERN. FINAL AUTHORITY IN THE APPROVAL OF CONSTRUCTION SEQUENCING LIES WITH THE AIRPORT.
- ALL CONSTRUCTION TRAFFIC SHALL IMMEDIATELY YIELD TO ONCOMING AIRCRAFT AT ALL TIMES.
 - THE AIRPORT WILL BE HOSTING EVENTS THROUGH THE SUMMER AND RESERVES THE RIGHT TO HALT CONSTRUCTION UNTIL FURTHER NOTICE. CONSTRUCTION SHALL BE COMPLETED WITH ALL TRAFFIC CONTROL REMOVED BY 6/30/2024; OR CONSTRUCTION SHALL NOT COMMENCE UNTIL AFTER 7/20/2024.

4. PROTECTION OF NAVIGATIONAL AIDS

- THE CONTRACTOR SHALL REMAIN CLEAR OF THE ILS CRITICAL AREAS AND OTHER NAVAIDS FACILITIES AT ALL TIMES.

5. CONTRACTOR ACCESS

- CONTRACTOR ACCESS SHALL BE AS NOTED BELOW AND AS SHOWN IN THE PLANS. ALL COSTS RELATING TO CONTRACTOR'S ACCESS AND SECURITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND TEMPORARY EASEMENTS FOR THE PUBLIC ACCESS ROAD(S) SHOWN AND SHALL COMPLY WITH ALL REQUIREMENTS, LOAD RESTRICTIONS, & TRAFFIC CONTROL SIGNAGE REQUIRED BY THE CITY, COUNTY, TOWNSHIP, OR I.D.O.T.
- CONTRACTOR'S VEHICLES AND EQUIPMENT SHALL BE MARKED AND FLAGGED PER THE PLAN DETAILS AND SPECIFICATIONS. MAXIMUM HEIGHT OF CONTRACTOR'S EQUIPMENT WILL BE 25'.
- THE CONTRACTORS STORAGE AND STAGING AREAS WILL BE AS SHOWN IN THE PLANS.
- WHEN THE CONTRACTOR IS NOT WORKING, EQUIPMENT SHALL BE RETURNED TO & STORED AT THE STAGING AREA.
- DURING ADVERSE WEATHER THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE WORK AT NO ADDITIONAL COST TO THE CONTRACT. NO EXTENSION OF THE CONTRACT TIME WILL BE CONSIDERED FOR DELAYS DUE TO LACK OF ADEQUATE ACCESS TO THE WORK SITE.
- THE CONTRACTOR WILL BE PERMITTED TO STORE EQUIPMENT AND MATERIALS ONLY AT THE LOCATIONS SHOWN. PARKED EQUIPMENT AND MATERIAL STOCKPILES SHALL NOT PENETRATE SURFACES DEFINED BY F.A.R. TITLE 14 PART 77 - OBJECTS AFFECTING NAVIGABLE AIRSPACE. EXISTING TURF AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY HIM AT HIS EXPENSE TO THE SATISFACTION OF THE ENGINEER AND THE AIRPORT.
- THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL CONSTRUCTION AREAS AND HAUL ROUTES WHICH ARE OR WILL BE OPENED TO AIR TRAFFIC TO THE SATISFACTION OF THE AIRPORT. A POWER BROOM AND OPERATOR SHALL BE ON SITE AT ALL TIMES WHEN ACTIVE PAVEMENTS ARE UTILIZED FOR CONSTRUCTION TRAFFIC.
- ALL PAVEMENTS, DRIVES OR ANY OTHER AREAS UTILIZED BY THE CONTRACTOR FOR HAUL ROADS OR STORAGE AREAS SHALL BE MAINTAINED AND REPAIRED TO THE SAME CONDITION OR BETTER THAN THEY WERE PRIOR TO BEGINNING CONSTRUCTION. NO ADDITIONAL COMPENSATION WILL BE MADE TO THE CONTRACTOR FOR THIS WORK.
- ALL VEHICLE AND EQUIPMENT OPERATORS USED BY THE CONTRACTOR SHALL BE PROPERLY TRAINED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL NOT BLOCK ANY EMERGENCY ACCESS TO THE AIRPORT.

6. WILDLIFE MANAGEMENT

- THE CONTRACTOR SHALL NOTIFY THE AIRPORT IF ANY WILDLIFE IS SEEN ON OR ENTERING THE AIRPORT.
- THE CONTRACTOR SHALL DISPOSE OF ALL TRASH INCLUDING FOOD SCRAPS IN APPROVED CONTRACTOR PROVIDED CONTAINERS.

7. FOREIGN OBJECT DEBRIS MANAGEMENT

- THE CONTRACTOR SHALL PICK UP ANY FOREIGN OBJECT DEBRIS (FOD) SEEN ON THE ROAD AND AIRFIELD PAVEMENTS.
- THE CONTRACTOR SHALL SECURE ALL LOOSE ITEMS FROM VEHICLES PRIOR TO DRIVING ON ROAD AND AIRFIELD PAVEMENTS.

8. HAZARDOUS MATERIALS MANAGEMENT

- THE CONTRACTOR SHALL DEVELOP A HAZMAT MANAGEMENT PLAN AND KEEP COPIES ON THE JOBSITE OF MATERIAL SAFETY DATA SHEETS (MSDS) FOR ALL MATERIALS HANDLED ON THE JOBSITE.

9. NOTIFICATION OF CONSTRUCTION ACTIVITIES

- THE CONTRACTOR SHALL PROVIDE A 24 HOUR EMERGENCY CONTACT PERSON AND PHONE NUMBER.
- FOR ANY EQUIPMENT USED BY THE CONTRACTOR WITH A HEIGHT GREATER THAN 25', THE CONTRACTOR SHALL PROVIDE TO THE AIRPORT THE TYPE OF EQUIPMENT, TOTAL HEIGHT, AND LOCATION WHERE THE EQUIPMENT WILL BE USED. THE AIRPORT WILL SUBMIT FAA FORM 7460-1 TO THE FAA FOR AN AIRSPACE STUDY. NO EQUIPMENT WITH A HEIGHT GREATER THAN 25' SHALL BE USED UNTIL A DETERMINATION FROM FAA IS RECEIVED.

10. INSPECTION REQUIREMENTS

- THE CONTRACTOR SHALL INSPECT THE JOBSITE DAILY TO ENSURE COMPLIANCE WITH THE CSPP. THE CHECKLIST FOUND IN APPENDIX D OF FAA AC 150/5370-2 (LATEST VERSION) MAY BE USED TO AID IN THE INSPECTIONS.
- THE CONTRACTOR SHALL REQUEST AND ATTEND AN INSPECTION OF EACH PHASE WORK AREA PRIOR THE AREA BEING REOPENED. THE AIRPORT WILL DETERMINE IF THE WORK AREA IS SUITABLE TO BE OPENED.

11. UNDERGROUND UTILITIES

- IT WILL BE NECESSARY FOR THE CONTRACTOR TO MAKE HIS OWN FIELD INVESTIGATION TO DETERMINE THE EXACT LOCATION OF THE UNDERGROUND UTILITIES AT CRITICAL POINTS. THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY IN RESPECT TO THE ACCURACY, COMPLETENESS OR SUFFICIENCY OF THE INFORMATION. ANY UTILITY, INCLUDING AIRFIELD ELECTRICAL CABLE AND LIGHTS, DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY HIM AT HIS OWN EXPENSE IN A MANNER WHICH IS SATISFACTORY TO THE ENGINEER AND TO THE OWNER OF THE UTILITY. ANY REPAIRS THAT MUST BE MADE BY THE OWNER OF THE UTILITY SHALL HAVE THE COST REIMBURSED TO THE UTILITY BY THE CONTRACTOR. AIRFIELD LIGHTING CABLES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY A QUALIFIED ELECTRICIAN WITH THE COSTS TO BE BORNE BY THE CONTRACTOR.
- BEFORE INITIATING ANY DIGGING, DRILLING OR EXCAVATING ON THE AIRPORT PROPERTY, THE CONTRACTOR SHALL CALL J.U.L.I.E. THE AIRPORT, AND CONTACT THE LOCAL FAA OFFICE (309-697-1363) TO ARRANGE FOR UTILITY LOCATES.

12. PENALTIES

- NONCOMPLIANCE BY THE CONTRACTOR WITH AIRPORT RULES AND REGULATIONS OR FAILURE TO COMPLY WITH THE AIRPORT'S APPROVED CSPP, THE CONTRACTOR'S APPROVED SPCD OR THE SECURITY PLAN MAY RESULT IN FINES AS ALLOWED BY LAW.

13. SPECIAL CONDITIONS

- ADJACENT CONSTRUCTION MAY IMPACT THE OPERATIONS OF THE CONTRACTOR. SEE THE COORDINATION NOTES FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR'S OPERATIONS MAY BE CURTAILED OR SUSPENDED DUE TO LOW VISIBILITY, SNOW/ICE ACCUMULATIONS AND REMOVAL, AIRCRAFT EMERGENCIES, OR SECURITY BREACHES AT THE DISCRETION OF THE AIRPORT MANAGER. NO OUTDOOR CONSTRUCTION DURING TIMES OF LIGHTING WILL BE ALLOWED.
- FOR EMERGENCIES, CONTRACTOR SHALL CALL 911, THEN THE AIRPORT

14. RUNWAY & TAXIWAY VISUAL AIDS

- ALL RUNWAYS, TAXIWAYS, AND APRONS SHALL BE KEPT OPEN TO AIRPORT TRAFFIC DURING CONSTRUCTION.

15. MARKING & SIGNS FOR ACCESS ROUTES

- BARRICADES AND SIGNS SHALL BE USED ALONG THE CONTRACTOR'S ACCESS ROUTE AS DETAILED IN THE PLANS. SIGNS AND BARRICADES TO SHALL MEET THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS.

16. HAZARD MARKING & LIGHTING

- THE CONTRACTOR SHALL FURNISH, ERECT, AND MAINTAIN MARKINGS AND ASSOCIATED LIGHTING OF OPEN TRENCHES, EXCAVATIONS, TEMPORARY STOCKPILES, AND CONSTRUCTION EQUIPMENT.
- ALL CONSTRUCTION EQUIPMENT SHALL BE FLAGGED AND/OR LIGHTED IN ACCORDANCE WITH FAA ADVISORY CIRCULAR 150/5370-2G (OR LATEST) AND 150/5210-5D (OR LATEST) AT ALL TIMES WHILE OPERATING ON AIRPORT PROPERTY. THE MAXIMUM EQUIPMENT HEIGHT IS 25'.
- BARRICADES SHALL BE PLACED AT THE LOCATIONS SHOWN IN THE PLANS OR AS DIRECTED BY THE AIRPORT.
- THE CONTRACTOR SHALL INSPECT THE BARRICADES ONCE DURING EACH WORK DAY TO INSURE PROPER PLACEMENT AND PROPER OPERATION OF THE LIGHTS AND FLAG PLACEMENT.

17. LIGHTING FOR NIGHTTIME CONSTRUCTION

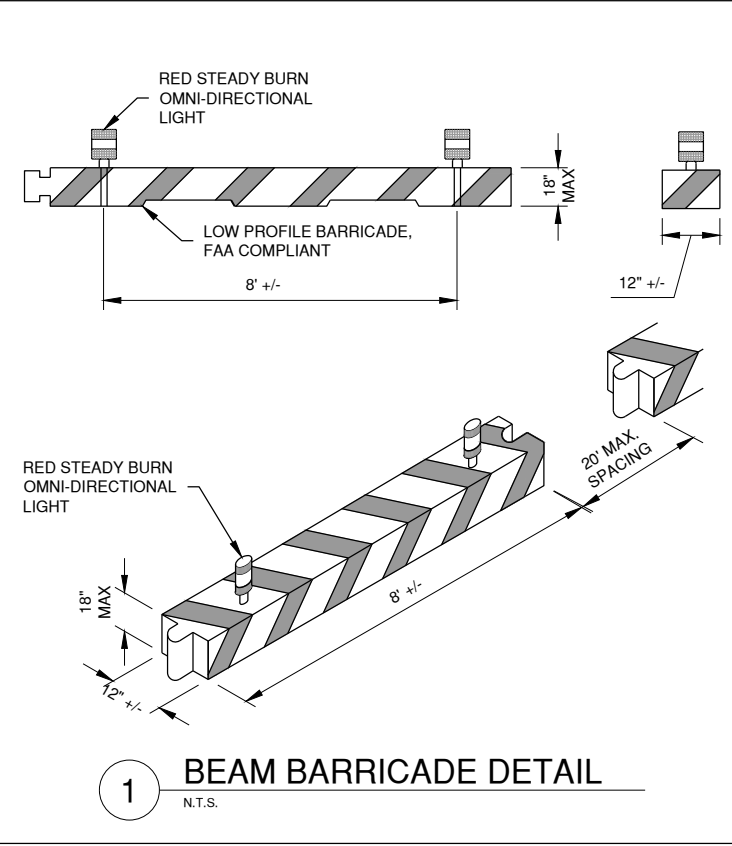
- THE CONTRACTOR SHALL PROVIDE ADEQUATE LIGHTING DURING NIGHTTIME CONSTRUCTION.
- ARTIFICIAL AREA LIGHTING SHALL CONSIST OF VEHICLE OR POLE MOUNTED FLOODLIGHTS OF SUFFICIENT NUMBER TO ILLUMINATE THE WORK AREA. VEHICLE HEADLIGHTS WILL ONLY BE ALLOWED IN ADDITION TO THE AREA LIGHTING.
- ARTIFICIAL AREA LIGHTING SHALL NOT INTERFERE WITH AIR TRAFFIC.
- PLACEMENT & AIMING OF ARTIFICIAL LIGHTING SHALL BE APPROVED BY THE AIRPORT PRIOR TO START OF OPERATIONS.

18. PROTECTION OF AREAS & SURFACES

- PORTIONS OF WORK AS SHOWN ON PLAN SHEETS TO BE PERFORMED INSIDE THE AOA.

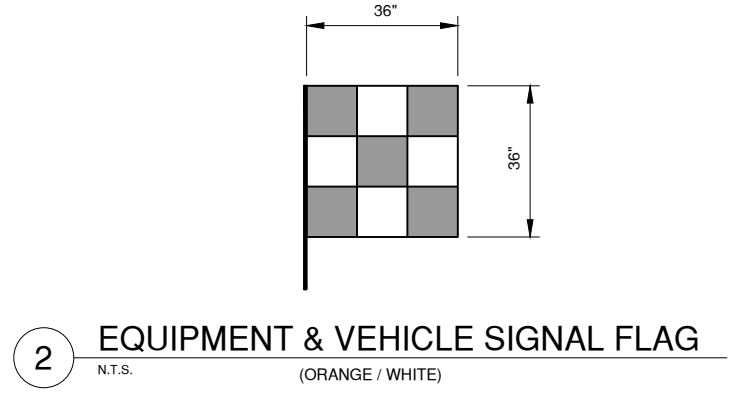
19. OTHER LIMITATIONS OF CONSTRUCTION

- IF, DURING CONSTRUCTION, AN EMERGENCY IS DECLARED BY THE AIRPORT, THE CONTRACTOR SHALL IMMEDIATELY CLEAR THE PAVEMENT OF ALL VEHICLES, PERSONNEL AND EQUIPMENT.



BEAM BARRICADE NOTES

- BARRICADE SHALL BE WEIGHTED TO WITHSTAND DISPLACEMENT BY WIND, JET OR PROP BLAST.
- BARRICADE MUST BE OF LOW MASS AND EASILY COLLAPSIBLE UPON CONTACT WITH AN AIRCRAFT.
- NO SEPARATE PAYMENT WILL BE MADE FOR THIS ITEM. COSTS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- PLACE AS SHOWN IN PLANS AND AS DIRECTED BY THE ENGINEER.
- BARRICADES SHALL BE COMPLIANT WITH FAA AC 150/5370-2 (LATEST VERSION).



SIGNAL FLAG NOTES

- ALL CONTRACTOR VEHICLES AND EQUIPMENT SHALL DISPLAY COMPANY LOGO PLACARDS AND FLAG.
- WHEN WORKING PRIOR TO DAWN OR AFTER DUSK, A 360 DEGREE ROTATING AMBER BEACON IS REQUIRED ON ALL EQUIPMENT AND TRUCKS.
- CONTRACTOR SHALL REPLACE FLAGS THAT ARE WORN AND INEFFECTIVE.



100% FOR BID
JULY 28, 2023

UPGRADE AIRPORT PERIMETER FENCE

OWNER

VERMILION REGIONAL AIRPORT
VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

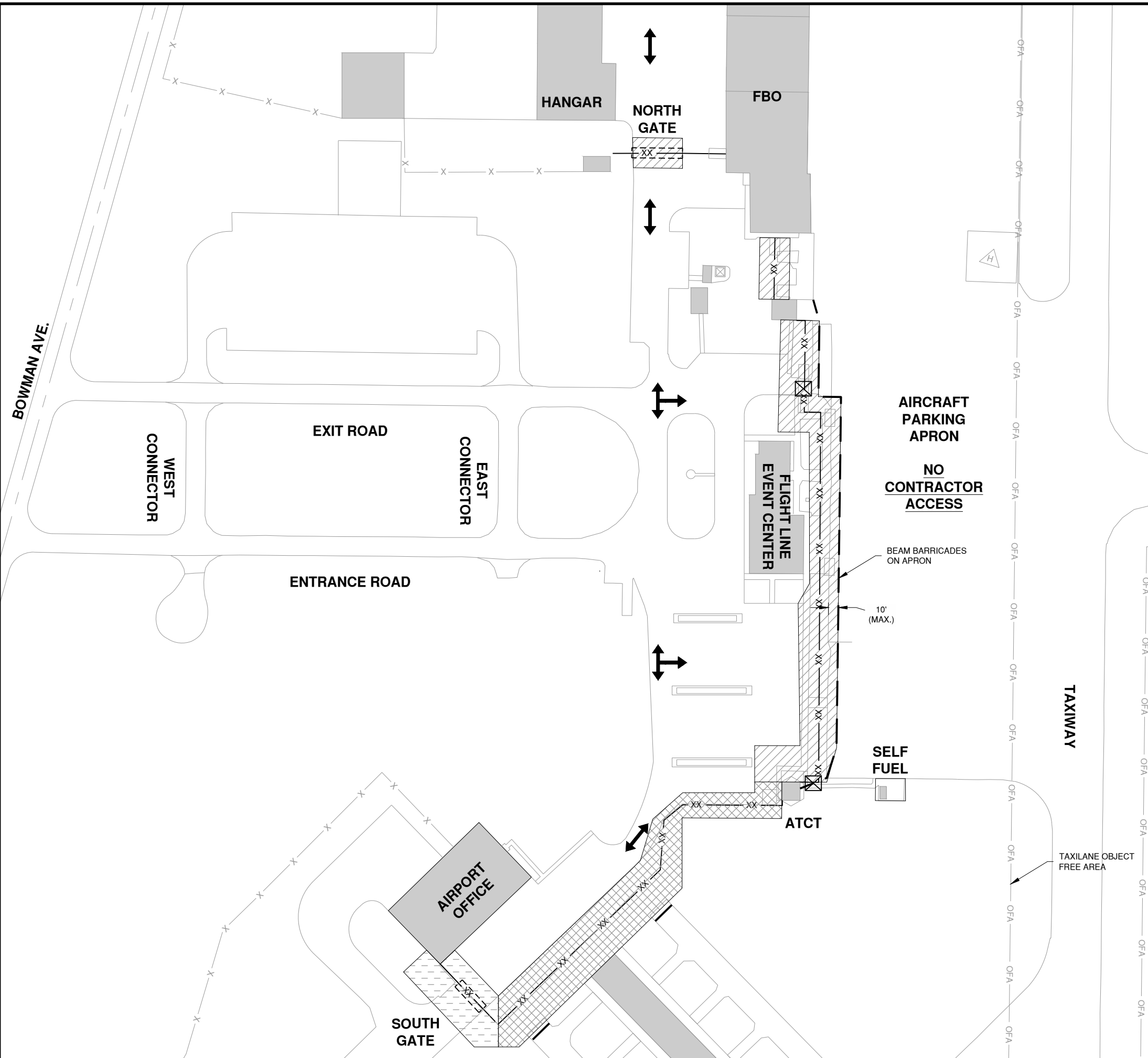
STATE/LOCAL PROGRAM	
DNV-5046	CONTRACT: VE057
CMT PROJECT NO: 22004867	
CAD DWG FILE: DNV-5046-GC500.DWG	
DESIGNED BY: DJR	
DRAWN BY: CMT	
CHECKED BY: MJD	
APPROVED BY: EMH	
COPYRIGHT:	

CONSTRUCTION SAFETY PHASING NOTES

SHEET **3** OF **19**

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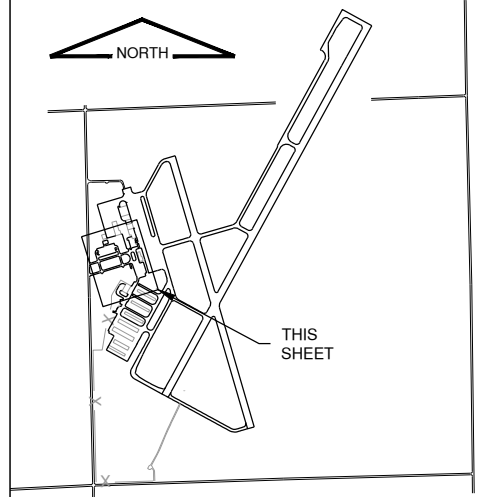
NOTES

1. MAINTAINING A CONTINUOUS, SECURE PERIMETER SHALL BE REQUIRED OF THE CONTRACTOR THROUGHOUT THE DURATION OF PROJECT. THIS SHALL BE ACCOMPLISHED WITH EITHER THE EXISTING FENCE OR TEMPORARY FENCING.
2. THE CONTRACTOR'S METHOD FOR CONSTRUCTING TEMPORARY FENCE SHALL BE SUBMITTED TO THE AIRPORT FOR REVIEW PRIOR TO BEGINNING WORK.
3. AT NO TIME SHALL THERE BE UNSUPERVISED OPENINGS OR GAPS PERMITTED IN THE AIRPORT FENCE LINE. IF THE CONTRACTOR'S SCHEDULE REQUIRES AN OPENING TO EXIST, THE CONTRACTOR SHALL EITHER POST A COMPETENT GATE GUARD TO MONITOR THE FENCE OPENING OR INSTALL TEMPORARY FENCE (4' MIN.) UNTIL PERIMETER IS SECURED.
4. TEMPORARY FENCING IS NOT REQUIRED IF THE REMOVAL OF EXISTING FENCE AND INSTALLATION OF NEW FENCE CAN BE COMPLETED DURING WORKING HOURS PRIOR TO LEAVING THE SITE NIGHTLY. HOWEVER, IF THE CONTRACTOR'S MEANS AND METHODS WILL RESULT IN THE NEED FOR A GATE GUARD TO MONITOR AN AREA FOR AN EXTENDED PERIOD OF TIME, TEMPORARY FENCING MAY BE ALLOWED IN LIEU OF A GATE GUARD. NO ADDITIONAL COMPENSTATION WILL BE MADE FOR A GATE GUARD OR TEMPORARY FENCING.

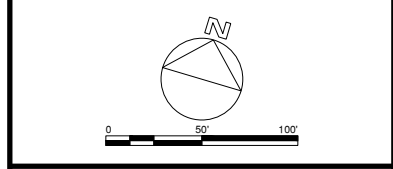
LEGEND

- BASE BID - NORTH GATE & PANEL FENCING
- ADD. ALT. #1 - CHAIN LINK FENCE FROM ATCT TO AIRPORT OFFICE
- ADD. ALT. #2 - SOUTH GATE
- PROPOSED FENCE - SEE C1100
- PROPOSED ELECTRIC SLIDE GATE
- BEAM BARRICADES
- CONTRACTOR ACCESS
- PROPOSED SWING GATE

KEYMAP



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 JULY 28, 2023

UPGRADE AIRPORT PERIMETER FENCE

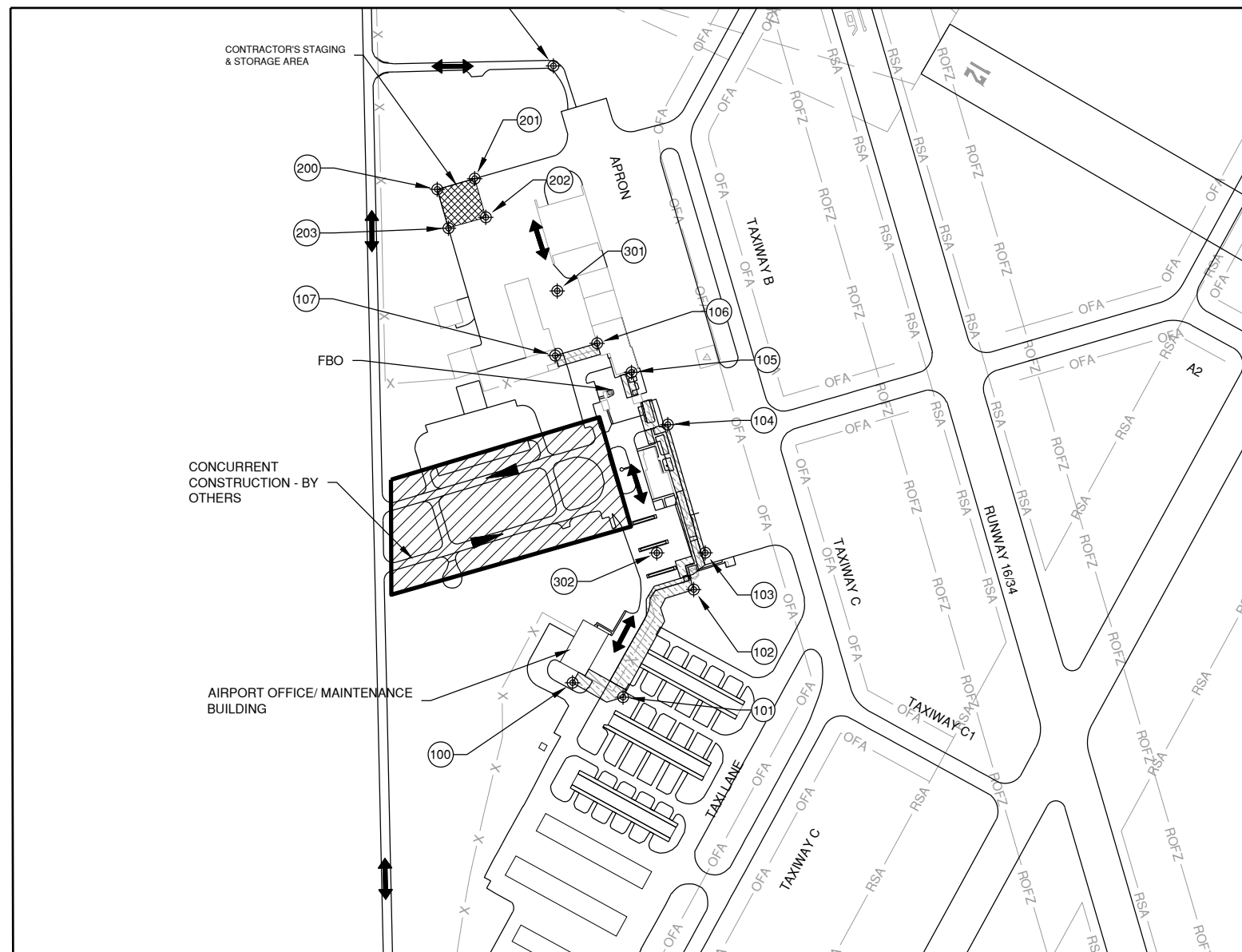
OWNER

 VERMILION REGIONAL AIRPORT
 VERMILION REGIONAL AIRPORT AUTHORITY
 DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION
STATE/LOCAL PROGRAM		
DNV-5046		CONTRACT: VE057
CMT PROJECT NO: 22004867		
CAD DWG FILE: DNV-5046-GC100.DWG		
DESIGNED BY: DJR		
DRAWN BY: CMT		
CHECKED BY:		
APPROVED BY:		
COPYRIGHT:		

CONSTRUCTION ACTIVITY PLAN

FAA / IDA USE ONLY



FAA / IDA USE ONLY

FAA / IDA USE ONLY

FAA / IDA USE ONLY

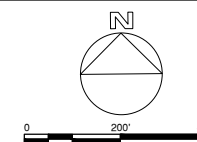
POINTS OF INTEREST - FAA USE ONLY

POINT	LATITUDE	LONGITUDE	ELEVATION	DESCRIPTION
100	N40° 11' 51.76"	W87° 36' 05.90"	658.00	WORK AREA
101	N40° 11' 51.38"	W87° 36' 04.21"	658.00	WORK AREA
102	N40° 11' 54.14"	W87° 36' 01.80"	662.00	WORK AREA
103	N40° 11' 55.08"	W87° 36' 01.41"	662.00	WORK AREA
104	N40° 11' 58.40"	W87° 36' 02.63"	661.00	WORK AREA
105	N40° 11' 59.75"	W87° 36' 03.84"	665.00	WORK AREA
106	N40° 12' 00.51"	W87° 36' 04.98"	668.00	WORK AREA
107	N40° 12' 00.20"	W87° 36' 06.40"	661.00	WORK AREA
200	N40° 12' 04.51"	W87° 36' 10.32"	664.00	STAGING AND STORAGE
201	N40° 12' 04.78"	W87° 36' 09.06"	667.00	STAGING AND STORAGE
202	N40° 12' 03.78"	W87° 36' 08.69"	666.00	STAGING AND STORAGE
203	N40° 12' 03.51"	W87° 36' 09.95"	665.00	STAGING AND STORAGE
300	N40° 12' 07.67"	W87° 36' 06.38"	671.00	HAUL ROUTE
301	N40° 12' 01.86"	W87° 36' 06.31"	664.00	HAUL ROUTE
302	N40° 11' 55.09"	W87° 36' 03.04"	662.00	HAUL ROUTE



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JULY 28, 2023

UPGRADE AIRPORT PERIMETER FENCE

OWNER



VERMILION REGIONAL AIRPORT
VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS


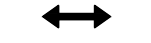



MARK | DATE | DESCRIPTION

STATE/LOCAL PROGRAM
DNV-5046 CONTRACT: VE057
CMT PROJECT NO: 22004867
CAD DWG FILE: DNV-5046-GC101.DWG
DESIGNED BY: DJR
DRAWN BY: CMT
CHECKED BY: MJD
APPROVED BY: EMH
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SHEET TITLE
**CONSTRUCTION
ACTIVITY PLAN 2**

GC101
SHEET 5 OF 19

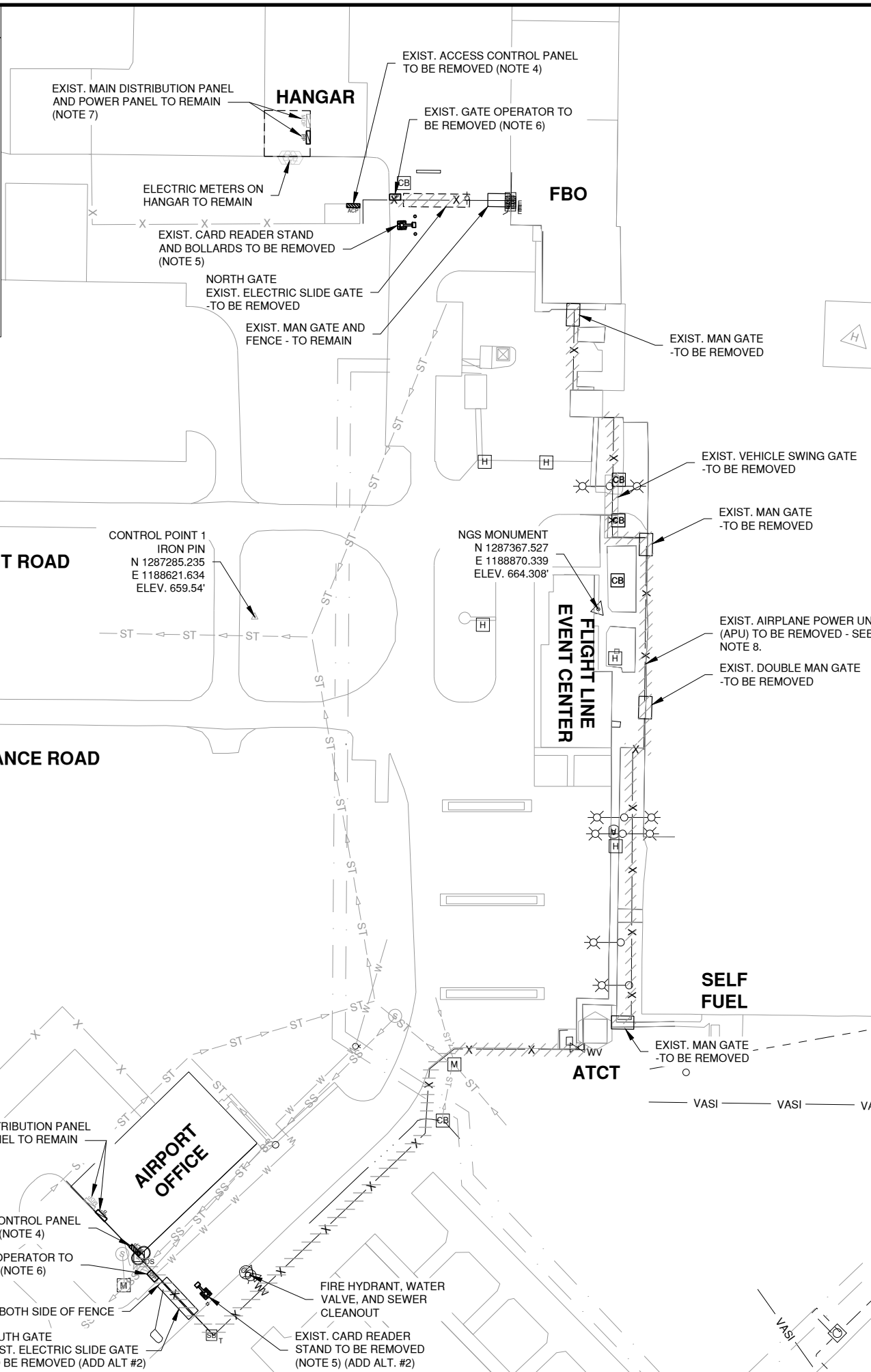
LEGEND

-  AREA OF CONSTRUCTION
-  CONCURRENT PROJECT CONTRACTOR'S ACCESS
-  CONTRACTOR'S ACCESS THIS PROJECT
-  TAXIWAY OBJECT FREE AREA
-  RUNWAY SAFETY AREA
-  RUNWAY 16/34 OBSTACLE FREE ZONE
-  AIRPORT PERIMETER FENCE
-  FAA AIRSPACE CRITICAL POINT

UTILITY DISCLAIMER

THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER, NOR THE PROJECT 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 COMPANY AND FAA OF HIS OPERATIONAL PLANS. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR DETAILED INFORMATION AND ASSISTANCE IN LOCATING UTILITIES. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY, THE OWNER, AND THE RESIDENT ENGINEER. ANY SUCH MAINS AND/OR SERVICES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED IMMEDIATELY AT HIS EXPENSE TO THE SATISFACTION OF THE OWNER AND THE ENGINEER.



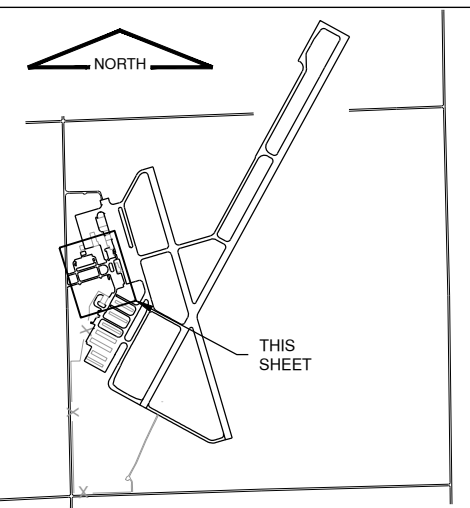
NOTES

- NEW FENCE SHALL BE INSTALLED IN THE SAME LOCATION AS THE EXISTING FENCE UNLESS SHOWN OTHERWISE.
- FENCE TO BE REMOVED IS 4' CHAIN-LINK FENCE WITHOUT BARBED WIRE, UNLESS OTHERWISE NOTED ON THE PLANS. A MAJORITY OF THE EXISTING FENCE IS SURFACE-MOUNTED TO PAVEMENT. THE CONTRACTOR SHALL TAKE CARE TO NOT DAMAGE THE EXISTING PAVEMENT, AND HE SHALL FILL ALL BOLT HOLES WITH EPOXY OR GROUT. CONTRACTOR SHALL SATISFY HIMSELF AS TO THE CHARACTER, CONSTRUCTION AND INSTALLATION AND CONDITIONS OF THE EXISTING FENCE AND GATE PRIOR TO SUBMITTING HIS BID.
- ALL DEBRIS AND REMOVED ITEMS TO BE DISPOSED OF OFF AIRPORT PROPERTY BY THE CONTRACTOR.
- CONTRACTOR SHALL REMOVE ACCESS CONTROL PANEL, MOUNTING HARDWARE AND ALL CABLE AND CONDUIT FROM THE ACCESS CONTROL PANEL TO THE GATE OPERATOR AND POWER PANEL.
- CONTRACTOR SHALL REMOVE BOLLARDS, CARD READER, CARD READER STAND, CARD READER CONCRETE FOUNDATION AND ALL CABLE AND CONDUIT BACK TO THE ACCESS CONTROL PANEL. EXISTING CONCRETE FOUNDATION SHALL BE REMOVED 1-FT BELOW GRADE AND BACKFILLED. (ALT)
- CONTRACTOR SHALL REMOVE EXISTING GATE OPERATOR, MOUNTING HARDWARE, DETECTOR LOOPS AND ALL CABLE AND CONDUIT FROM THE GATE OPERATOR TO THE ACCESS CONTROL PANEL AND POWER PANEL.
- EXISTING 120VAC CIRCUITS IN POWER PANEL ENERGIZING THE ACCESS CONTROL PANEL AND GATE OPERATOR SHALL BE REMOVED. CIRCUIT BREAKERS SHALL REMAIN AND BE SET TO THE "OFF" POSITION.
- AN EXISTING AIRPORT POWER UNIT EXISTS ON THE FENCE LINE. THE CONTRACTOR SHALL REMOVE THE APU, ALL CONDUIT STUBS, CABLING, AND OTHER ABOVE GROUND APPURTENANCES AND FILL HOLES WITH NONSHRINK GROUT.

LEGEND

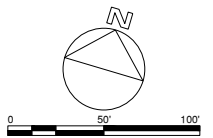
- EXIST. 4' CHAIN LINK FENCE W/O BARB WIRE TO BE REMOVED
- EXIST. ELECTRIC SLIDE GATE TO BE REMOVED
- EXIST. MAN GATE TO BE REMOVED
- EXIST. 16' VEHICLE SWING GATE TO BE REMOVED
- PROPOSED REMOVAL OF FENCING & GATES
- EXIST. BOLLARD
- EXIST. ELECTRIC HANDHOLE
- EXIST. ELECTRIC VAULT
- EXIST. ELECTRIC METER
- EXIST. ELECTRIC SPLICE BOX
- EXIST. OVERHEAD LIGHT POLE
- EXIST. FIRE HYDRANT
- EXIST. WATER VALVE
- EXIST. SANITARY MANHOLE
- EXIST. CATCH BASIN
- EXIST. CLEANOUT
- EXIST. STORM SEWER
- EXIST. SANITARY SEWER
- EXIST. WATER LINE

KEYMAP



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JULY 28, 2023

UPGRADE AIRPORT PERIMETER FENCE

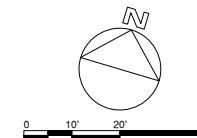
OWNER

VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

STATE/LOCAL PROGRAM	CONTRACT: VE057
DNV-5046	CMT PROJECT NO: 22004867
CAD DWG FILE: DNV-5046-CD100.DWG	DESIGNED BY: DJR
DRAWN BY: CMT	CHECKED BY: MJD
APPROVED BY: EMH	COPYRIGHT:

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100% FOR BID
JULY 28, 2023

UPGRADE AIRPORT PERIMETER FENCE

OWNER

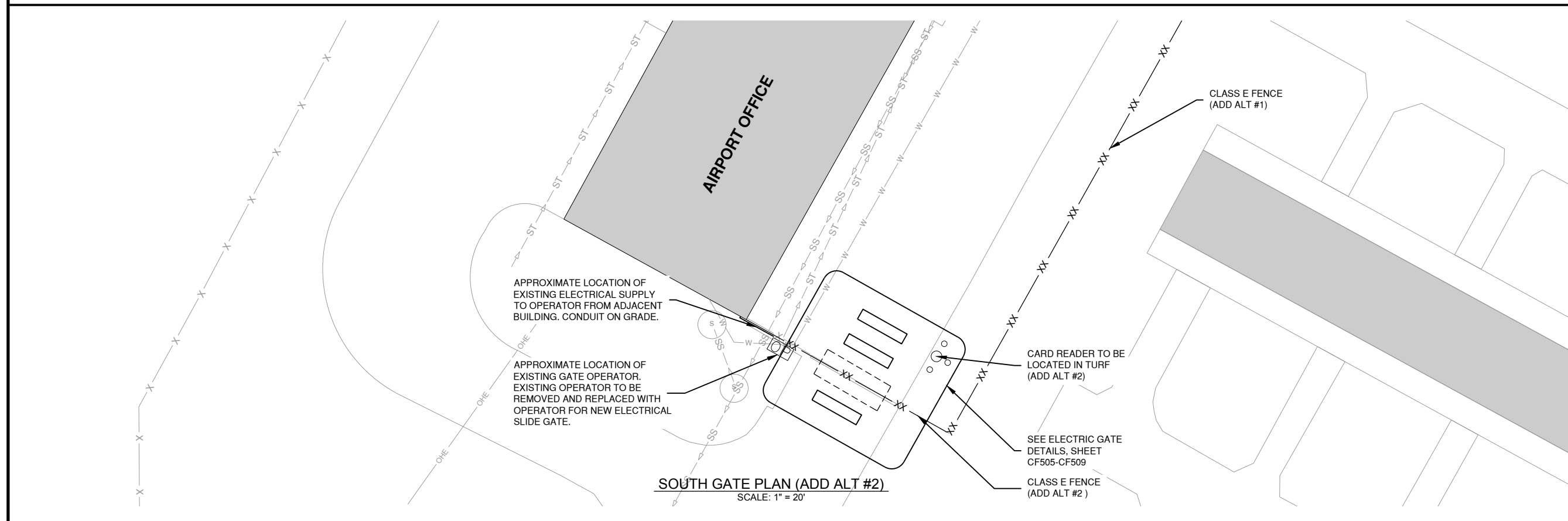
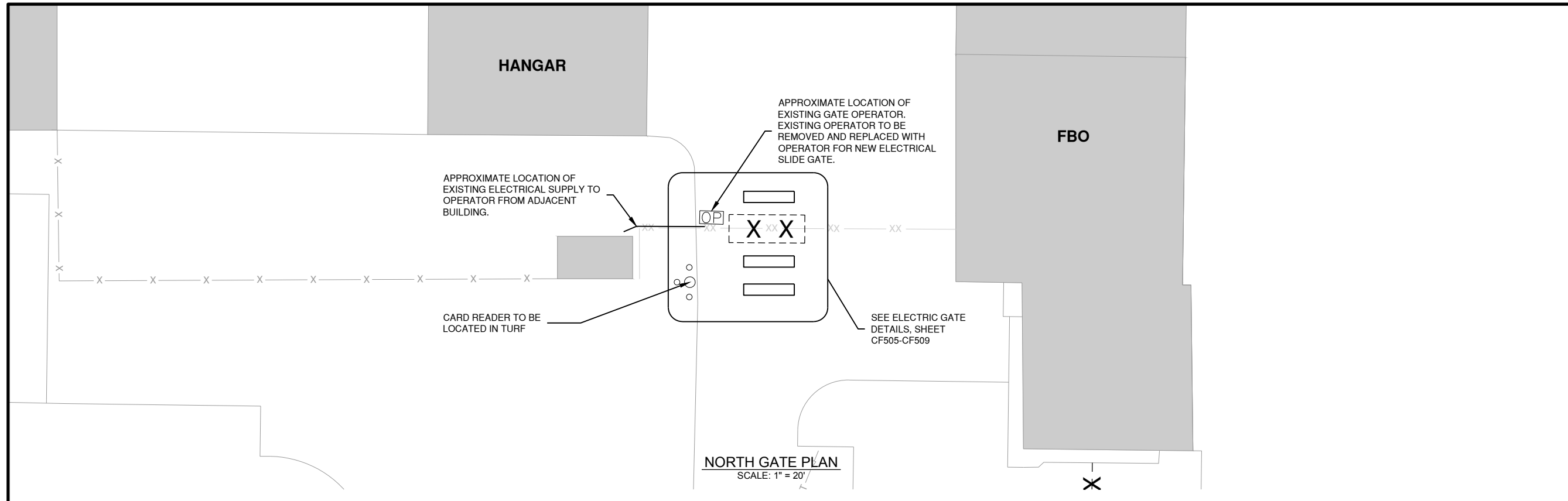


VERMILION REGIONAL AIRPORT
VERMILION REGIONAL AIRPORT
AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

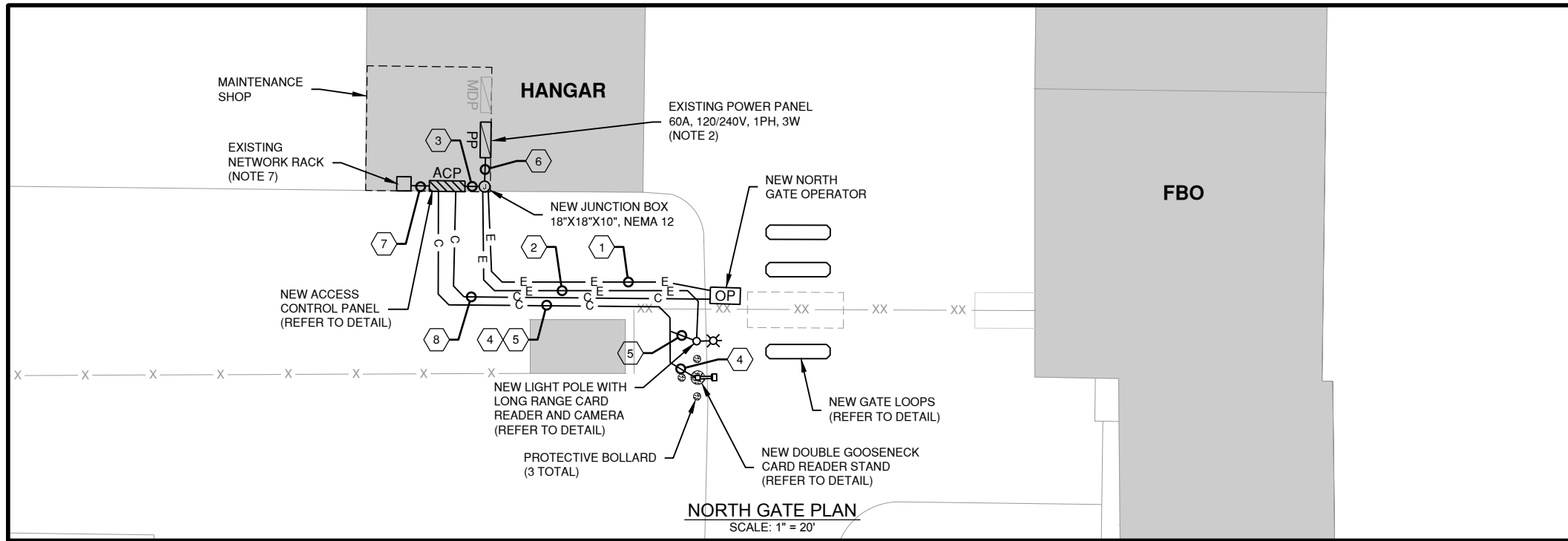
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DESIGNED BY:	DJR	
DRAWN BY:	CMT	
CHECKED BY:	MJD	
APPROVED BY:	EMH	
COPYRIGHT:		

SHEET TITLE
PROPOSED GATE PLAN

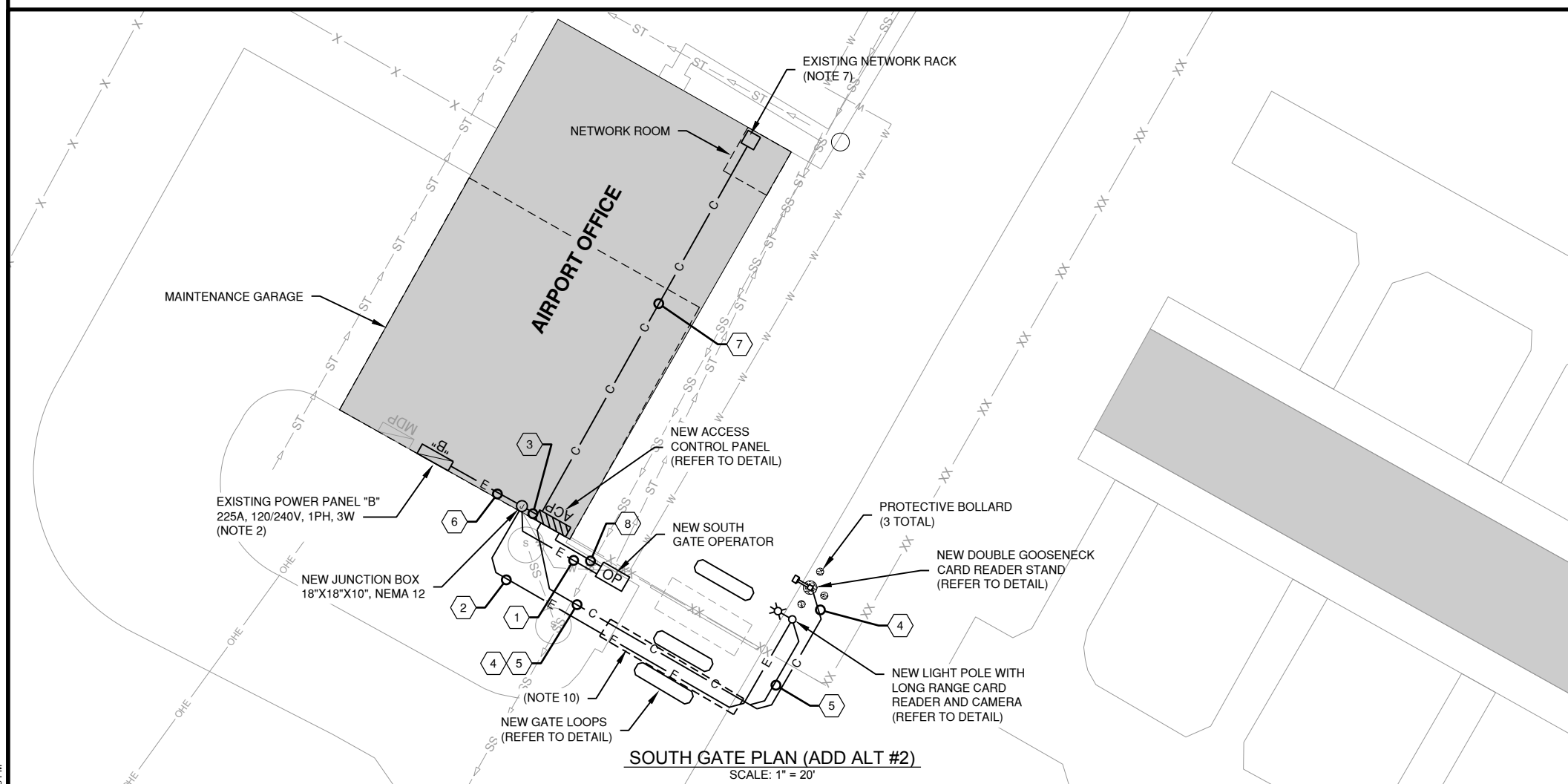


GATE SCHEDULE

GATE LOCATION	OPENING WIDTH	TYPE	CONTROL TYPE	EXISTING GATE	EXISTING POWER	NEW GATE	NEW POWER	CAMERAS	NOTES
NORTH GATE	22'-0"	VEHICLE GATE	CARD READER	ELECTRIC SLIDE GATE	0.5HP, 115V, 6.1AMP	ELECTRIC SLIDE GATE	1HP, 240V, 1PH	YES	BASE BID
SOUTH GATE	22'-0"	VEHICLE GATE	CARD READER	ELECTRIC SLIDE GATE	0.5HP, 115V, 12.7AMP	ELECTRIC SLIDE GATE	1HP, 240V, 1PH	YES	ADD ALT #2



NORTH GATE PLAN
SCALE: 1" = 20'



SOUTH GATE PLAN (ADD ALT #2)
SCALE: 1" = 20'

GATE SCHEDULE								
GATE LOCATION	OPENING WIDTH	TYPE	ENTER CONTROL	EXIT CONTROL	POWER	NEW GATE	CAMERAS	NOTES
NORTH GATE	22'-0"	VEHICLE GATE	CARD READER	EXIT LOOP	1HP, 240V, 1PH	ELECTRIC SLIDE GATE	YES	CAMERA ON LIGHT POLE
SOUTH GATE	22'-0"	VEHICLE GATE	CARD READER	EXIT LOOP	1HP, 240V, 1PH	ELECTRIC SLIDE GATE	YES	CAMERA ON LIGHT POLE

NOTES

- CONTACTOR SHALL COORDINATE WITH AIRPORT ON GATE SHUTDOWNS. SHUTDOWNS SHALL LAST NO MORE THAN 8-HOURS.
- PROVIDE NEW CIRCUIT BREAKERS IN EXISTING POWER PANEL FOR THE FOLLOWING CIRCUITS:
a) 20A, 2-POLE CIRCUIT BREAKER FOR GATE OPERATOR
b) 20A, 1-POLE CIRCUIT BREAKER FOR ACCESS CONTROL PANEL
c) 20A, 1-POLE CIRCUIT BREAKER FOR LIGHT POLE
- ACCESS CONTROL PANEL SHALL BE WALL MOUNTED. COORDINATE FINAL LOCATION WITH THE AIRPORT. NETWORK SWITCH WITHIN ACCESS CONTROL PANEL SHALL BE CONNECTED TO THE AIRPORT'S NETWORK SWITCH TO MONITOR ACCESS CONTROL AND CAMERA FROM THE AIRPORT OFFICE.
- NEW DOUBLE GOOSENECK CARD READER STAND SHALL HAVE TWO MEDIUM RANGE CARD READERS. CONTRATOR TO PROVIDE DUAL GOOSENECK PEDESTAL, PEDESTAL FOUNDATION, CONDUIT AND CABLES. REFER TO SHEET CF508 FOR CARD READER STAND DETAILS.
- NEW LIGHT POLE SHALL HAVE A LONG RANGE READER AND CAMERA MOUNTED TO THE POLE. REFER TO SHEET CF510 FOR LIGHT POLE DETAILS.
- NEW GATE LOOPS SHALL BE CUT INTO THE PAVEMENT. REFER TO SHEET CF507 FOR GATE LOOP INSTALLATION DETAILS.
- CONTACTOR SHALL CONNECT TO AND INTEGRATE ACCESS CONTROL PANEL AND LIGHT POLE MOUNTED CAMERA WITH AIRPORT LOCAL AREA NETWORK SWITCH.
- ABOVE GRADE CONDUIT SHALL BE RIGID GALVANIZED STEEL AND BELOW GRADE CONDUIT SHALL BE SCHEDULE 40 PVC. UNDERGROUND TRANSITION ELBOWS AND LB CONDUIT BODIES INTO BUILDINGS SHALL BE PVC COATED GALVANIZED RIGID STEEL CONDUIT. REFER TO CF502 FOR UNDERGROUND CONDUIT TRANSITION DETAIL.
- REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR GATE DETAILS, AND ELEVATIONS. REFER TO CIVIL SPECIFICATIONS FOR CARD READER PEDESTAL FOUNDATION DETAILS.
- CONDUIT SHALL BE DIRECTIONALLY BORED UNDER EXISTING PAVEMENT. REFER TO CF502 FOR CONDUIT DIRECTIONAL BORE DETAIL.

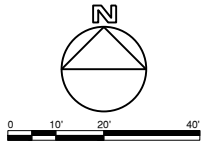
CABLE & CONDUIT LEGEND

- 1 2-#10 (XLP USE-2), 1-#10 GND IN 1" PVC SCH 40 CONDUIT FOR GATE OPERATOR.
- 2 2-#10 (XLP USE-2), 1-#10 GND IN 1" PVC SCH 40 CONDUIT FOR LIGHT POLE.
- 3 2-#12 (THWN-2), 1-#12 GND IN 1" RIGID GALVANIZED STEEL CONDUIT FOR ACCESS CONTROL PANEL.
- 4 2-6/C #22 CARD READ CABLE IN 1" PVC SCH 40 CONDUIT.
- 5 1-2/C #18 AWG CABLE (12VDC) & 1-6/C #22 AWG CABLE (COMMUNICATION) FOR LONG RANGE READER CABLE & 1-CAT6 NETWORK CABLE FOR CAMERA IN 1" PVC SCH 40 CONDUIT.
- 6 2-#10 (XLP USE-2), 1-#10 GND FOR GATE OPERATOR
2-#10 (XLP USE-2), 1-#10 GND FOR LIGHT POLE
2-#12 (THWN-2), 1-#12 GND FOR ACCESS CONTROL PANEL IN 2" RIGID GALVANIZED STEEL CONDUIT.
- 7 1-CAT6 NETWORK CABLE IN 1" RIGID GALVANIZED STEEL CONDUIT FOR ACCESS CONTROL PANEL.
- 8 1-6/C #18 AWG CABLE IN 1" PVC SCH 40 CONDUIT.



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100% FOR BID
JULY 28, 2023

UPGRADE AIRPORT PERIMETER FENCE

OWNER



VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK | DATE | DESCRIPTION

STATE/LOCAL PROGRAM	
DNV-5046	CONTRACT: VE057
CMT PROJECT NO: 22004867	
CAD DWG FILE: DNV-5046-E100.DWG	
DESIGNED BY: CT	
DRAWN BY: CMT	
CHECKED BY: AB	
APPROVED BY: EMH	
COPYRIGHT:	

ELECTRICAL SITE PLAN

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100% FOR BID
JULY 28, 2023

UPGRADE AIRPORT PERIMETER FENCE

OWNER

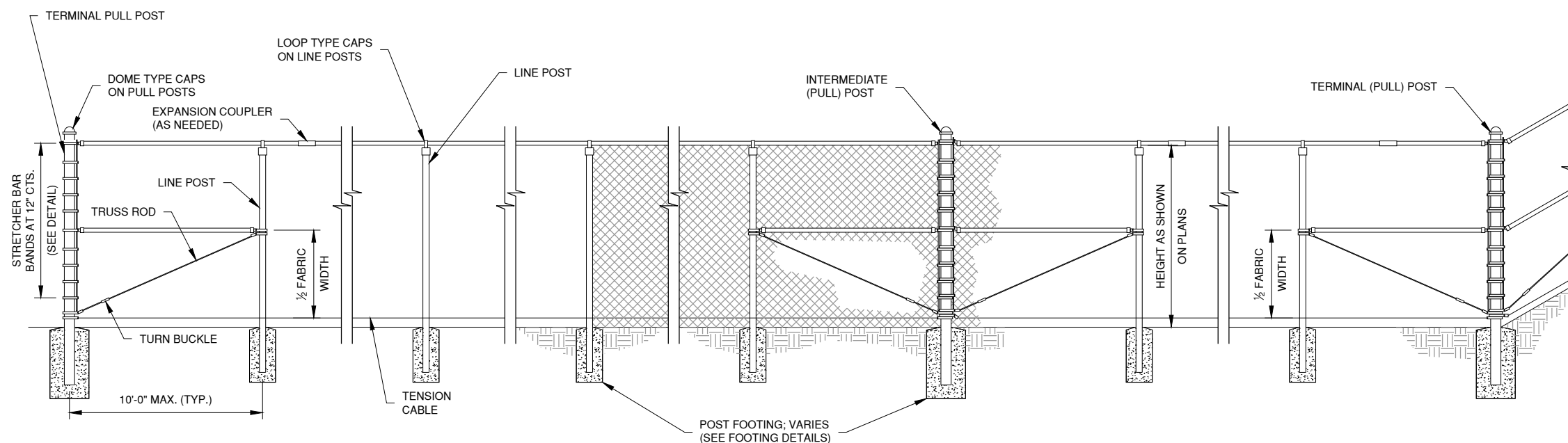


VERMILION REGIONAL AIRPORT
VERMILION REGIONAL AIRPORT
AUTHORITY
DANVILLE, ILLINOIS

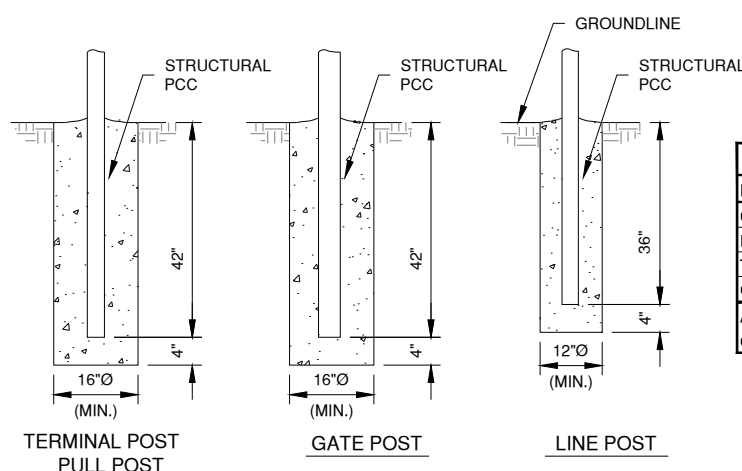
MARK | DATE | DESCRIPTION

STATE/LOCAL PROGRAM	CONTRACT: VE057
DNV-5046	
CMT PROJECT NO: 22004867	
CAD DWG FILE: DNV-5046-CF500.DWG	
DESIGNED BY: DJR	
DRAWN BY: CMT	
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APPROVED BY: EMH	
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SHEET TITLE
FENCE DETAILS 1



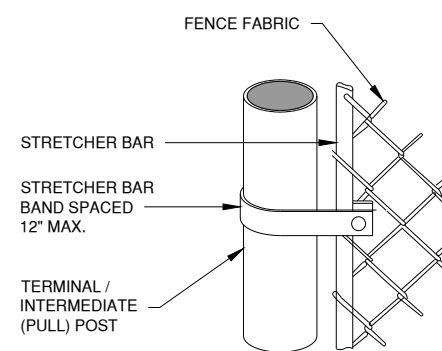
1 CLASS E FENCE 6'
N.T.S.



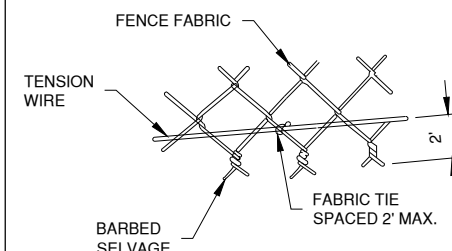
2 POST FOOTING DETAILS
N.T.S.

FENCE POST DIAMETER		
POST TYPE	DIAMETER	WEIGHT
CORNER, END, PULL	4.00" O.D.	9.11 LB/FT
LINE POST	2.875" O.D.	5.79 LB/FT
TOP RAIL	1.66" O.D.	2.77 LB/FT
GATE POST	6.625" O.D.	18.97 LB/FT

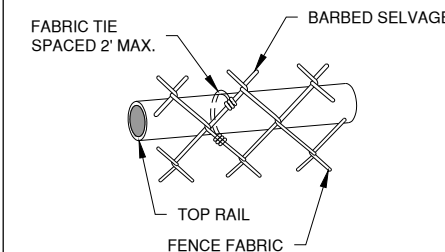
ALL POSTS SHALL BE ROUND SCHEDULE 40 CONFORMING TO THE DIMENSIONS ABOVE.



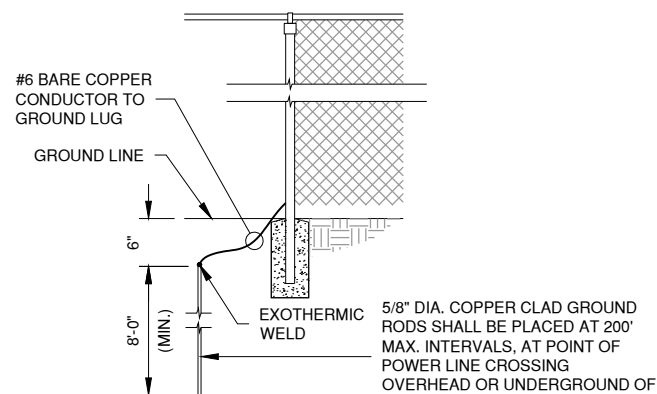
3 TENSION BAR
N.T.S.



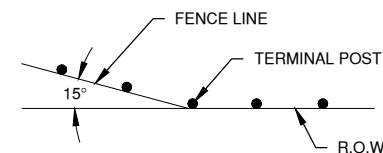
4 TENSION WIRE
N.T.S.



5 TOP RAIL TIES
N.T.S.



6 ELECTRIC GROUND DETAIL
N.T.S.



WHERE FENCE LINE HAS A CHANGE IN DIRECTION OF 15° OR MORE, A TERMINAL POST SHALL BE PLACED AS SHOWN ABOVE. WHERE ANGLE IS LESS THAN 15° AND EXISTING CONDITIONS REQUIRE A TERMINAL POST, THEY SHALL BE PLACED AS DIRECTED BY THE ENGINEER.

7 FENCE LAYOUT (PLAN)
N.T.S.

NOTES

- CONTINUOUS FENCE SHALL BE GROUNDED AT INTERVALS NOT EXCEEDING 200 FT. EXCEPT THERE SHALL BE A GROUND NOT EXCEEDING 100 FT. FROM GATE IN EACH SECTION OF THE FENCE ADJACENT TO THE GATE.
- FENCE UNDER POWER LINES SHALL BE GROUNDED BY 3 GROUNDS, ONE DIRECTLY UNDER THE CROSSING AND ONE ON EACH SIDE 25 TO 50 FT. AWAY. A SINGLE GROUND SHALL BE LOCATED DIRECTLY UNDER EACH TELEPHONE WIRE OR CABLE CROSSINGS.
- THE COUNTERPOISE SHALL BE USED ONLY WHERE IT IS IMPOSSIBLE TO DRIVE A GROUND ROD BECAUSE OF IMPERVIOUS EARTH STRUCTURES.
- THE GROUND WIRE SHALL BE CONNECTED TO THE FABRIC AND THE GROUND ROD BY A MECHANICAL CLAMP OF CAST BRONZE BODY AND BRONZE OR STAINLESS STEEL BOLTS AND WASHERS. WHEN A TENSION WIRE IS REQUIRED, THE BOTTOM CONNECTION OF THE GROUND WIRE SHALL BE MADE TO THE TENSION WIRE.
- ALL PROPOSED CLASS E FENCE SHALL MEET THE REQUIREMENTS OF IDOT STANDARD 664001-01 WHERE APPLICABLE.

100% FOR BID
JULY 28, 2023

UPGRADE AIRPORT PERIMETER FENCE

OWNER



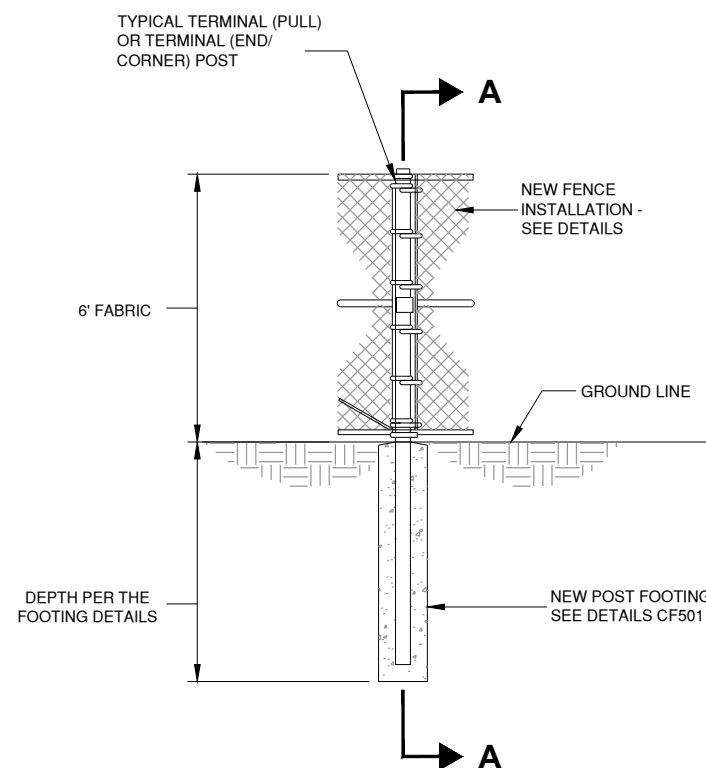
VERMILION REGIONAL AIRPORT
VERMILION REGIONAL AIRPORT AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

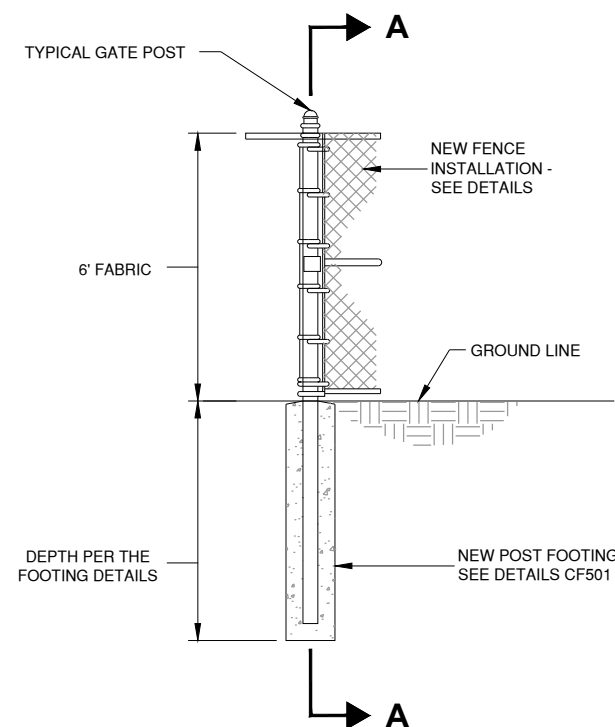
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DNV-5046	CMT PROJECT NO: 22004867
CAD DWG FILE: DNV-5046-CF500.DWG	DESIGNED BY: DJR
DRAWN BY: CMT	CHECKED BY: MJD
APPROVED BY: EMH	COPYRIGHT:

SHEET TITLE
FENCE DETAILS 2

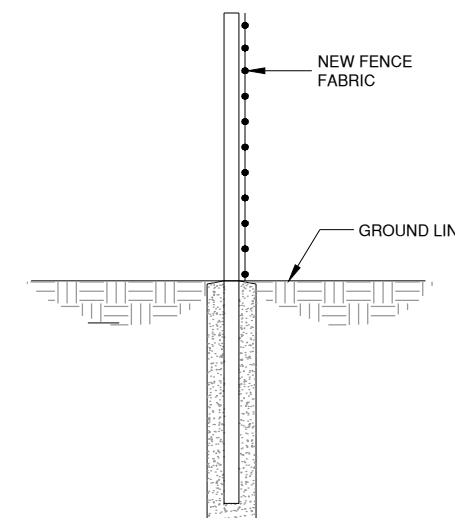
CF502



1 NEW 6' FENCE AT TERMINAL POST
N.T.S.

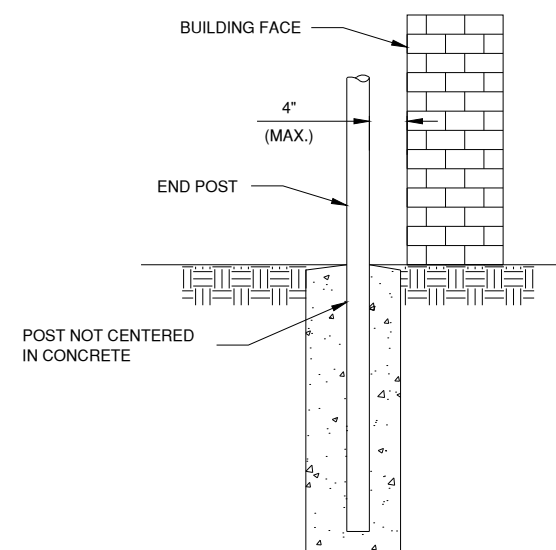


2 NEW 6' FENCE AT GATE POST
N.T.S.

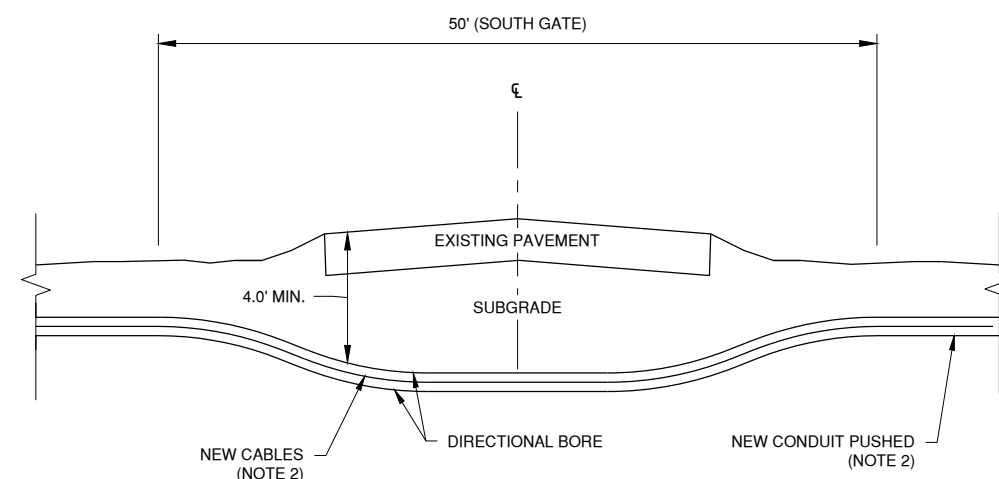


A SECTION A-A
N.T.S.

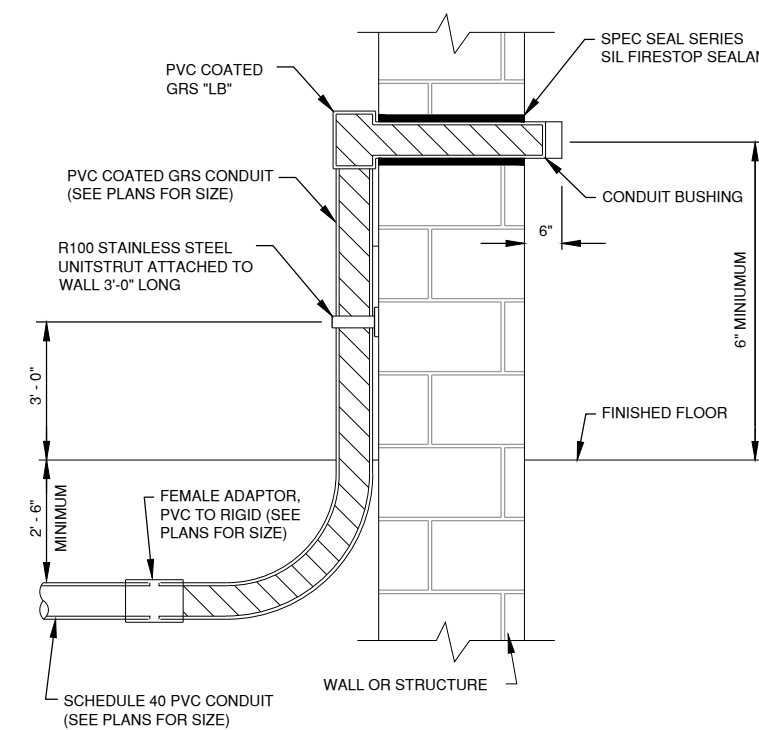
- NOTES**
1. THE DEPTH OF THE DIRECTIONAL BORE SHALL BE NO LESS THAN 4.0' FROM THE PAVEMENT SURFACE AND SHALL NOT DISTURB EXISTING UNDERDRAINS OR NEW LIGHTS/CABLING.
 2. REFER TO ELECTRICAL SITE PLAN FOR CABLE AND CONDUIT INFORMATION.



3 FENCE INSTALLATION AT BUILDING FACE
N.T.S.



4 CONDUIT DIRECTIONAL BORE DETAIL
N.T.S.



5 UNDERGROUND CONDUIT TRANSITION DETAIL
N.T.S.

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JULY 28, 2023

UPGRADE AIRPORT PERIMETER
FENCE

OWNER



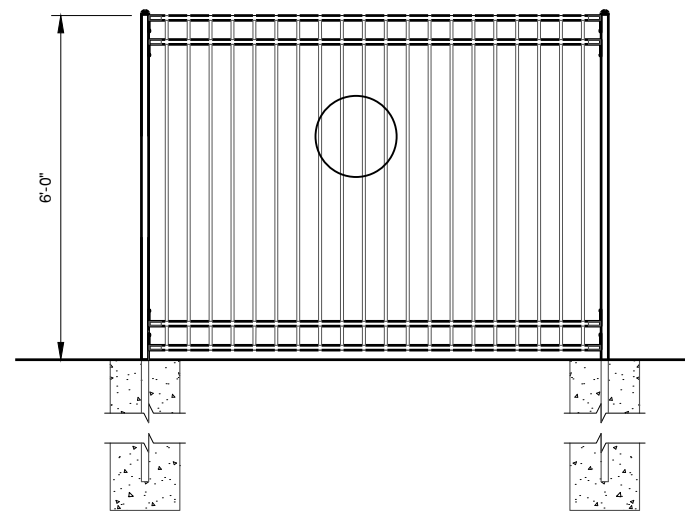
VERMILION REGIONAL
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AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

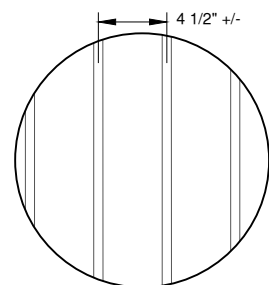
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DNV-5046	CONTRACT: VE057
CMT PROJECT NO: 22004867	
CAD DWG FILE: DNV-5046-CF500.DWG	
DESIGNED BY: DJR	
DRAWN BY: CMT	
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SHEET TITLE
**PANEL FENCE
DETAILS**

CF503
SHEET 12 OF 19

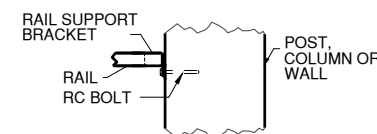


SECTION VIEW



TYPICAL PICKET SPACING

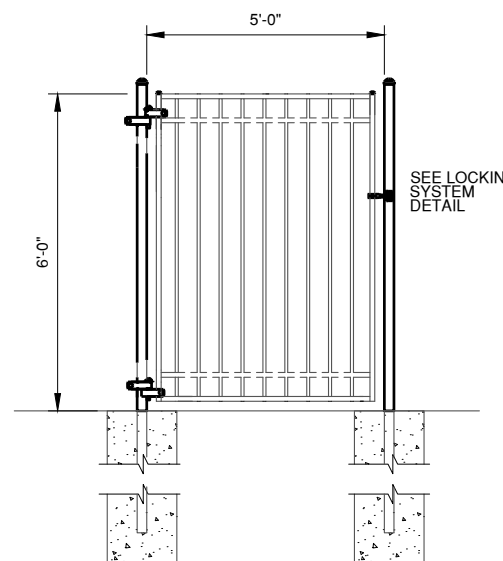
1 PANEL FENCE PANEL DETAIL
N.T.S. PAY ITEM AR800300



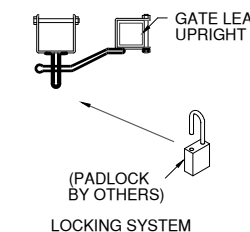
BRACKET INSTALLATION DETAIL

GENERAL NOTE FOR ALL FENCING INSTALLATIONS:

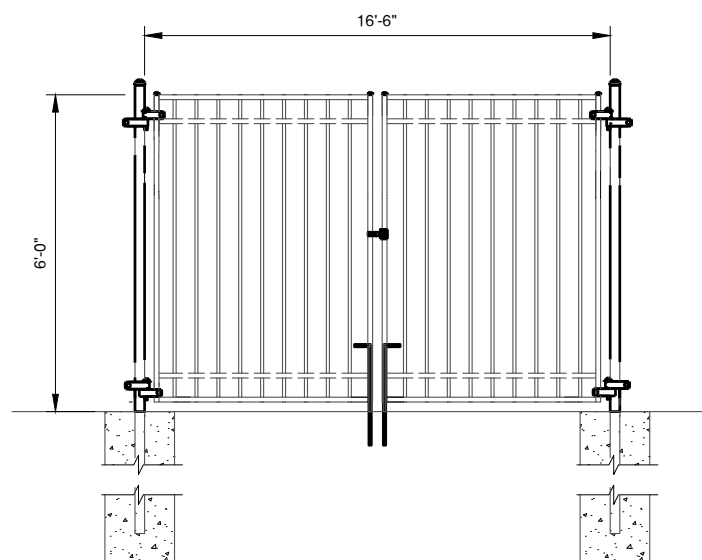
A. THE MAJORITY OF NEW PANEL FENCING WILL BE SURFACE-MOUNTED TO THE EXISTING PAVEMENT. THIS SHALL BE ACCOMPLISHED BY DRILLING CONCRETE ANCHOR BOLTS W/ EPOXY THROUGH AN ALUMINUM BASE PLATE AS RECOMMENDED BY THE MANUFACTURER.



SECTION VIEW



2 PANEL SINGLE SWING GATE DETAIL
N.T.S. PAY ITEM AR800301



SECTION VIEW

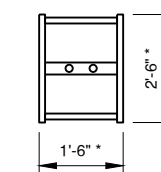
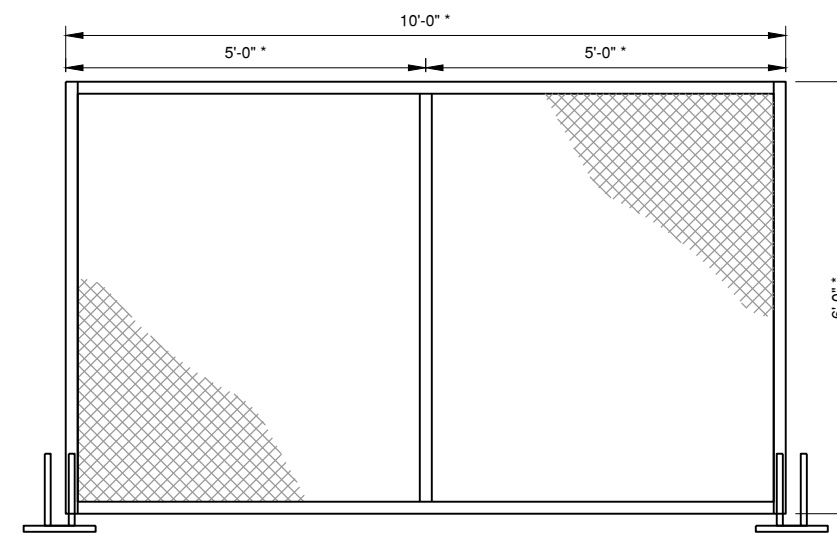


(PADLOCK BY OTHERS)
LOCKING SYSTEM

NOTES:

- FOR GATES INSTALLED ON PAVED SURFACE, CONTRACTOR SHALL CORE DRILL HOLES INTO EXISTING PAVEMENT TO ACCOMMODATE THE STOPS.

3 PANEL DOUBLE SWING GATE DETAIL
N.T.S. PAY ITEM AR800302

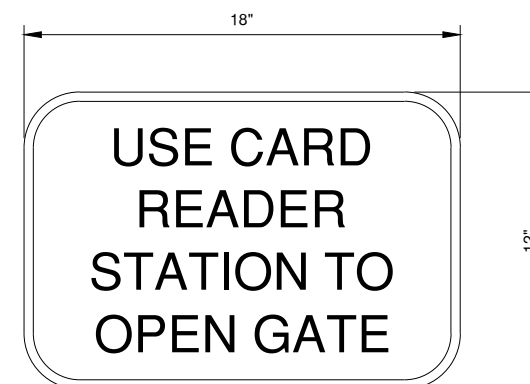
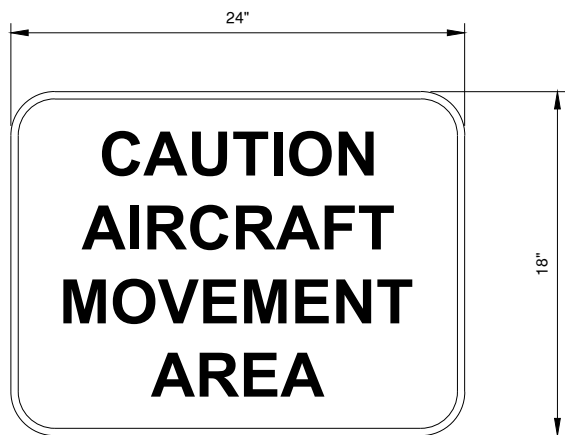


FOOTING DETAIL

NOTES:

- TEMPORARY FENCE TO BE PROPERLY WEIGHTED OR ANCHORED TO REMAIN IN PLACE UNSUPERVISED. METHOD OF WEIGHING OR ANCHORING SHALL BE APPROVED BY RESIDENT ENGINEER
- DIMENSIONS CAN VARY BASED ON LOCATION.

4 TEMPORARY FENCE DETAIL
N.T.S.



SIGNAGE NOTES

1. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF EACH SIGN. SHOP DRAWINGS SHALL MEET THE APPROVAL OF THE AIRPORT AND ENGINEER PRIOR TO MANUFACTURE AND INSTALLATION.
2. SIGNS SHALL BE 0.08 GA. ALUMINUM ALLOY SHEET
3. LETTERING COLOR SHALL BE BLACK ON WHITE BACKGROUND.
4. EVERY 100' OF FENCE OR LESS SHALL REQUIRE ONE RESTRICTED AREA SIGN #2. EVERY STRAIGHT SECTION OF FENCE SHALL REQUIRE MINIMUM ONE RESTRICTED AREA SIGN.
5. COSTS TO PROVIDE AND INSTALL SIGNS SHALL BE INCIDENTAL TO CONTRACT PAY ITEMS.
6. SIGN LOCATIONS SHALL BE DETERMINED BY THE AIRPORT AND THE RESIDENT ENGINEER AT THE TIME OF INSTALLATION.

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JULY 28, 2023

UPGRADE AIRPORT PERIMETER
FENCE

OWNER



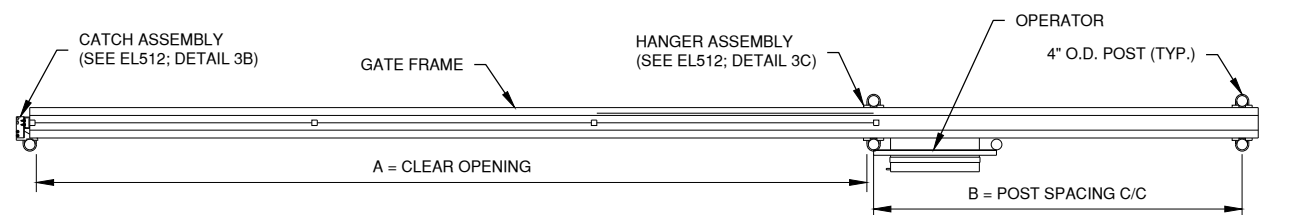
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AIRPORT

VERMILION REGIONAL AIRPORT
VERMILION REGIONAL AIRPORT
AUTHORITY
DANVILLE, ILLINOIS

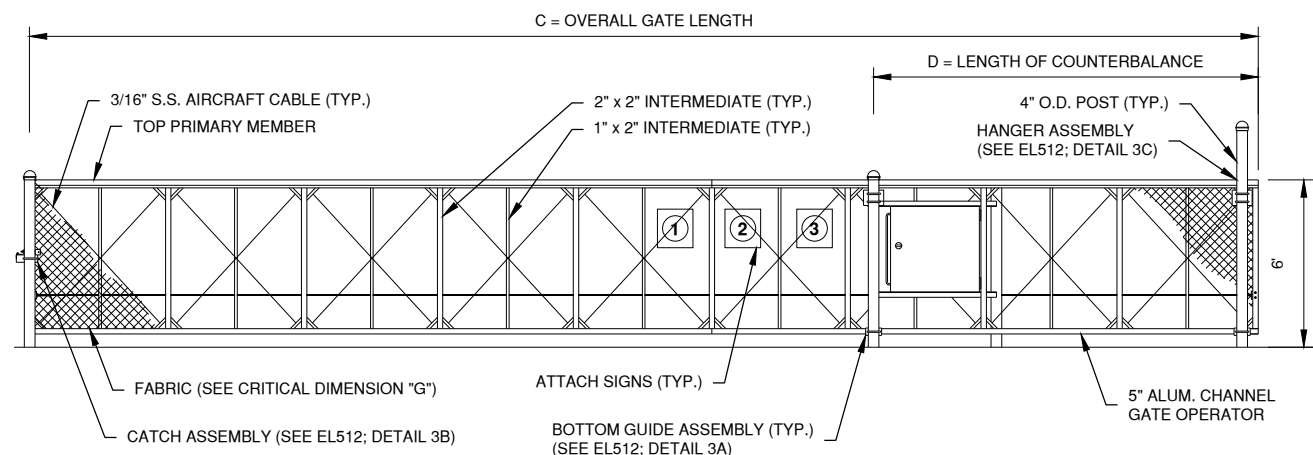
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DNV-5046	CONTRACT: VE057
CMT PROJECT NO: 22004867	
CAD DWG FILE: DNV-5046-CF500.DWG	
DESIGNED BY: DJR	
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SHEET TITLE
SIGN DETAILS



PLAN



ELEVATION

1 ELECTRICAL GATE
N.T.S.

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UPGRADE AIRPORT PERIMETER
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DANVILLE, ILLINOIS

MARK | DATE | DESCRIPTION

STATE/LOCAL PROGRAM	
DNV-5046	CONTRACT: VE057
CMT PROJECT NO: 22004867	
CAD DWG FILE: CF505 ELECTRICAL GATE DETAIL 1.DWG	
DESIGNED BY:	CT
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SHEET TITLE
**ELECTRICAL GATE
DETAIL 1**

CF505
SHEET 14 OF 19



2 WARNING SIGN DETAIL
N.T.S.

UL 235 COMPLIANCE NOTES

GATE INSTALLATION SHALL COMPLY WITH ALL REQUIREMENTS OF UL 235, INCLUDING, BUT NOT LIMITED TO:

- ALL OPENINGS OF THE SLIDE GATE ARE GUARDED OR SCREENED FROM THE BOTTOM OF THE GATE TO A MINIMUM OF 4 FEET ABOVE GROUND TO OPENINGS ANYWHERE IN THE GATE, AND IN THAT PORTION OF THE ADJACENT FENCE THAT THE GATE COVERS IN THE OPEN POSITION.
- ALL EXPOSED PINCH POINTS ARE ELIMINATED OR GUARDED AND GUARDING IS SUPPLIED FOR ALL EXPOSED ROLLERS.
- A WARNING SIGN (SEE DETAIL, THIS SHEET) MUST BE AFFIXED TO BOTH SIDES OF THE SLIDE GATE.
- FOR ADDITIONAL UL 235 REQUIREMENTS FOR THIS GATE INSTALLATION, SEE GATE OPERATOR DETAILS SHEET.

CANTILEVER SLIDE GATE CRITICAL DIMENSION CHART

		NORTH	SOUTH
A	CLEAR OPENING	22'-0"	22'-0"
B	COUNTERBALANCE POST SPACING C/C	11'-1"	11'-1"
C	OVERALL GATE LENGTH	36'-0"	36'-0"
D	COUNTERBALANCE LENGTH	12'-0"	12'-0"
E	NOMINAL GATE HEIGHT	6'-0"	6'-0"
F	POST HEIGHT	11'-6"	11'-6"
G	FABRIC HEIGHT	9'-0"	9'-0"

NOTES

- CANTILEVERED GATE SHALL BE SUFFICIENTLY RIGID TO WITHSTAND FLEXING OR BENDING DURING WINDY CONDITIONS. CONTRACTOR SHALL PROVIDE STIFFENERS, STRUCTURAL SHAPES IN EXCESS OF THE MINIMUM SPECIFIED DIMENSIONS OR ADDITIONAL ROLLERS AND POSTS SUFFICIENT TO PREVENT DISPLACEMENT OF THE GATE BY WIND OR BY UNAUTHORIZED PERSONNEL.
- CONTRACTOR SHALL PROVIDE AND INSTALL GATE AS COMPLETE WORKING UNIT. THE GATE WORK SHALL INCLUDE, BUT NOT BE LIMITED TO: GATE, OPERATOR, DIGITAL CODE CONTROL AND POWER CABLES, CONDUIT, TRENCHING, CIRCUIT BREAKERS, AND ALL CONNECTIONS, LABOR AND MATERIALS NECESSARY TO COMPLETE OPERATION.
- LOCATION OF THE GATE OPERATOR SHALL BE AS RECOMMENDED BY THE MANUFACTURER.
- PIPE BOLLARDS SHALL BE INSTALLED AT LOCATIONS SHOWN IN PLAN VIEW.
- THE FABRIC TYPE AND FINISH OF THE GATE, MATCH WITH PROPOSED FENCE OR AS DIRECTED BY THE ENGINEER.
- ALL SLIDING GATES SHALL HAVE ALL ROLLERS ENCLOSED IN STEEL OR PLASTIC SHROUDS TO PREVENT ACCIDENTAL INJURY.
- CONTRACTOR SHALL FURNISH AND INSTALL ALL SIGNS AS INDICATED ON THE PLANS AS WELL AS INSTALL OBSTRUCTION SENSOR.

LOCATIONS, DETAILS AND CHARACTER OF EQUIPMENT SHOWN ON THIS SHEET IS GENERIC. EQUIPMENT LOCATIONS SHALL BE AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.

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JULY 28, 2023

UPGRADE AIRPORT PERIMETER
FENCE

OWNER



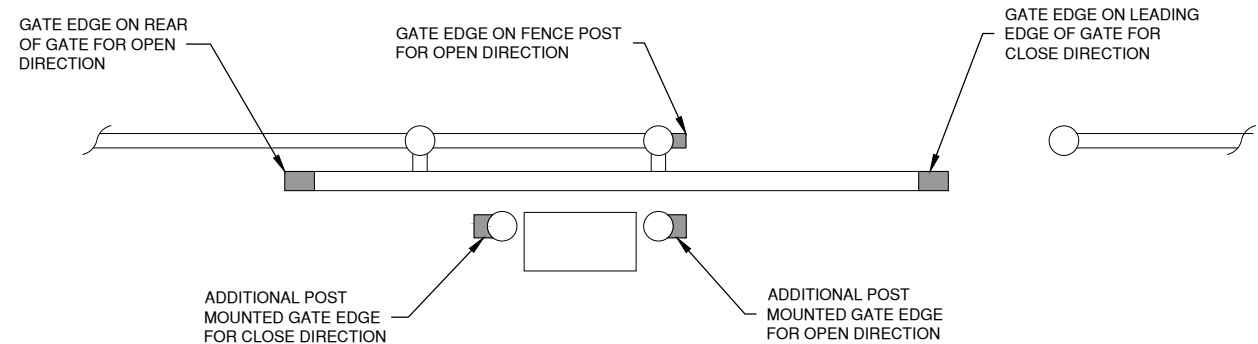
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AUTHORITY
DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

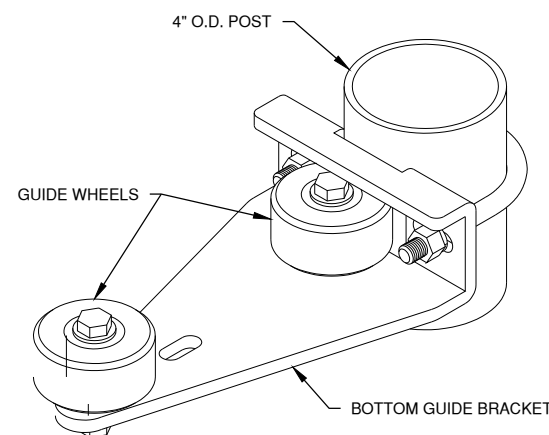
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CMT PROJECT NO: 22004867	
CAD DWG FILE: CF505 ELECTRICAL GATE DETAIL 1.DWG	
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SHEET TITLE
**ELECTRICAL GATE
DETAIL 2**

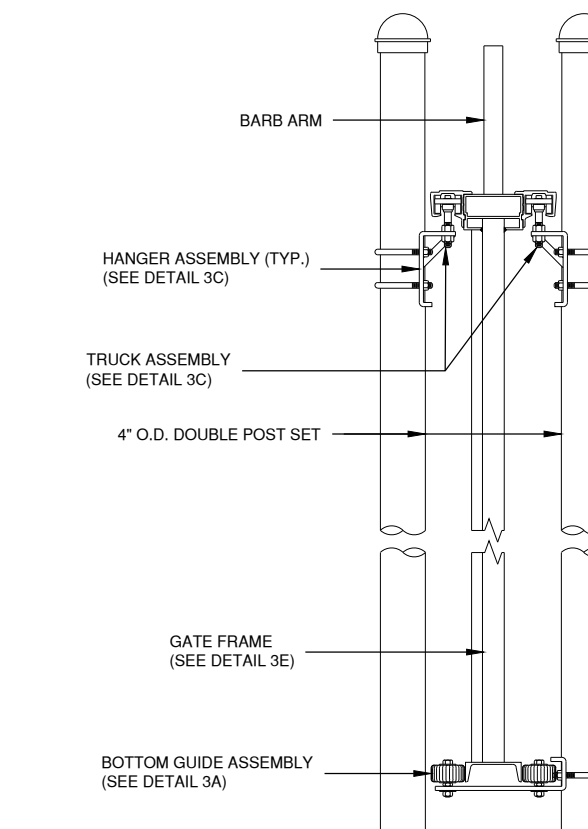
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SHEET 15 OF 19



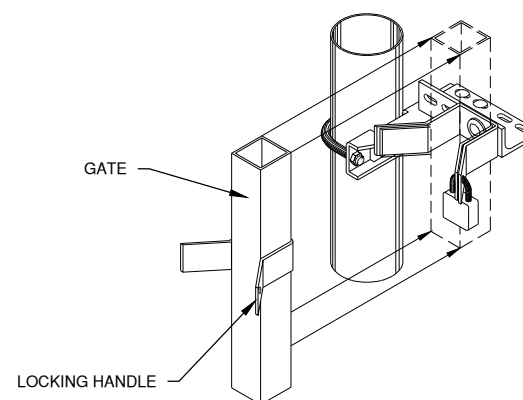
1 SECONDARY GATE OPERATOR PROTECTION CONTACT SENSORS
N.T.S.



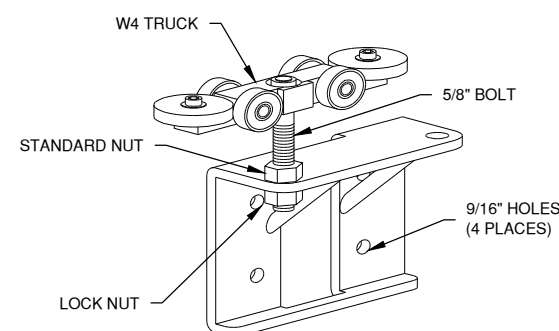
3A BOTTOM GUIDE
N.T.S.



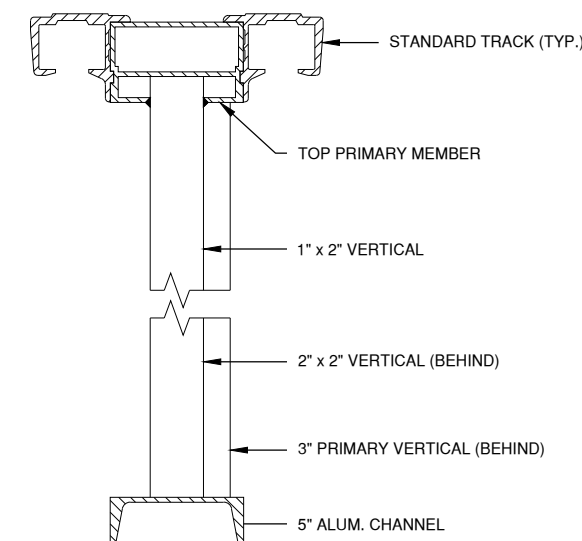
3D ASSEMBLY SECTION
N.T.S.



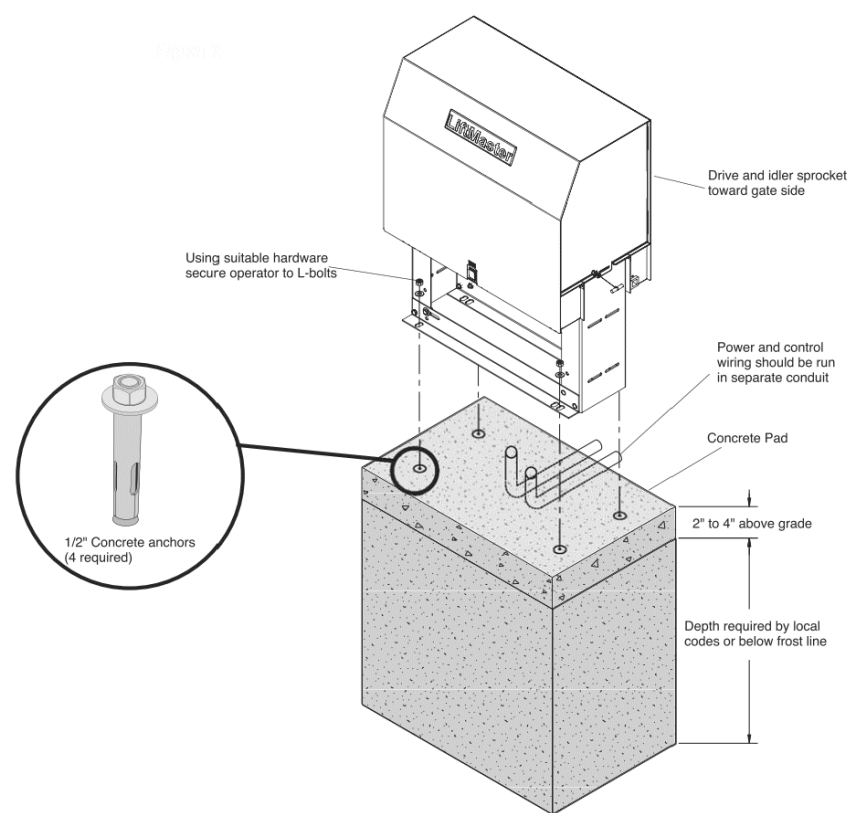
3B CATCH ASSEMBLY
N.T.S.



3C GATE HANGER ASSEMBLY
N.T.S.

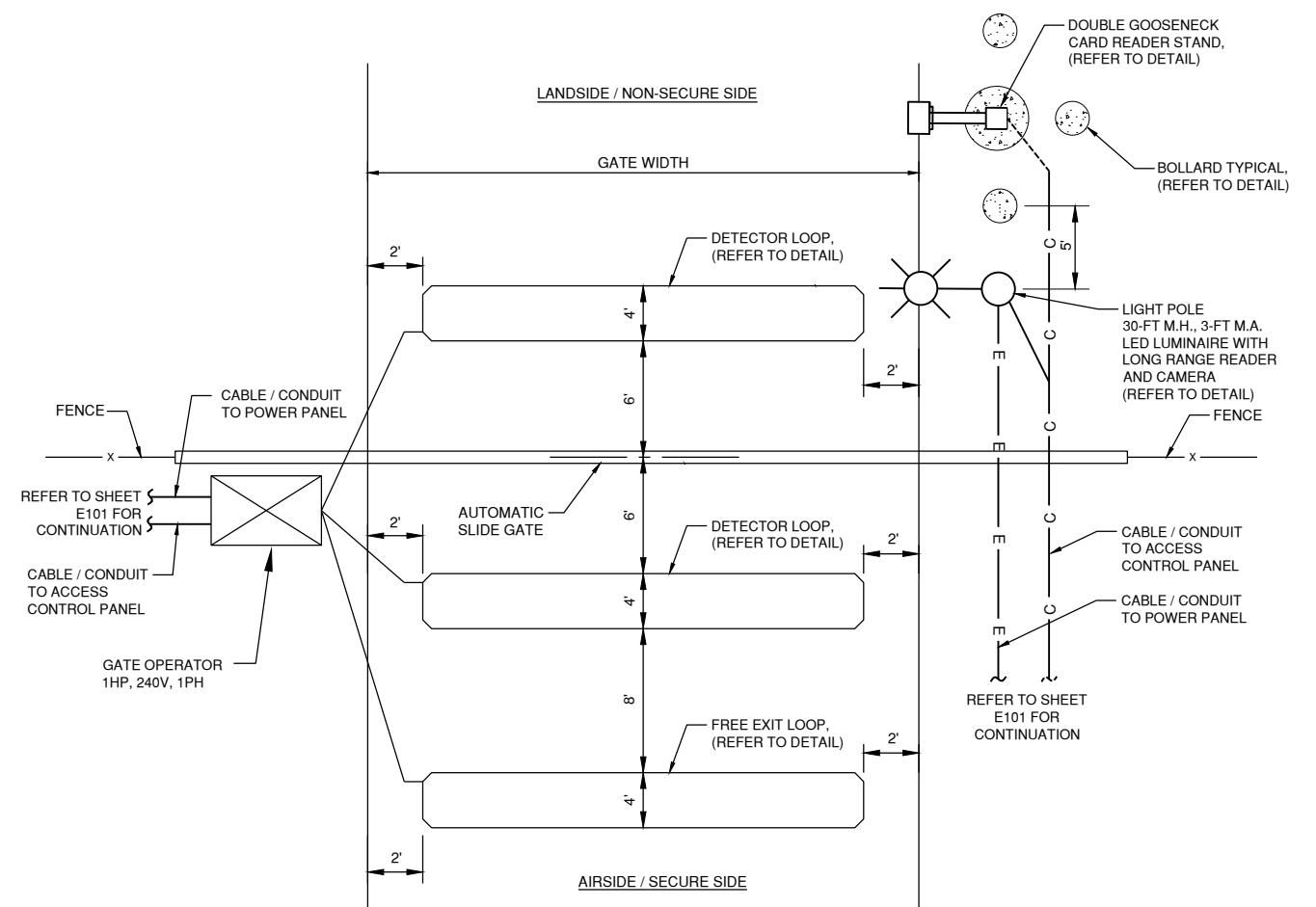


3E GATE FRAME SECTION
N.T.S.



2 GATE OPERATOR FOUNDATION
N.T.S.

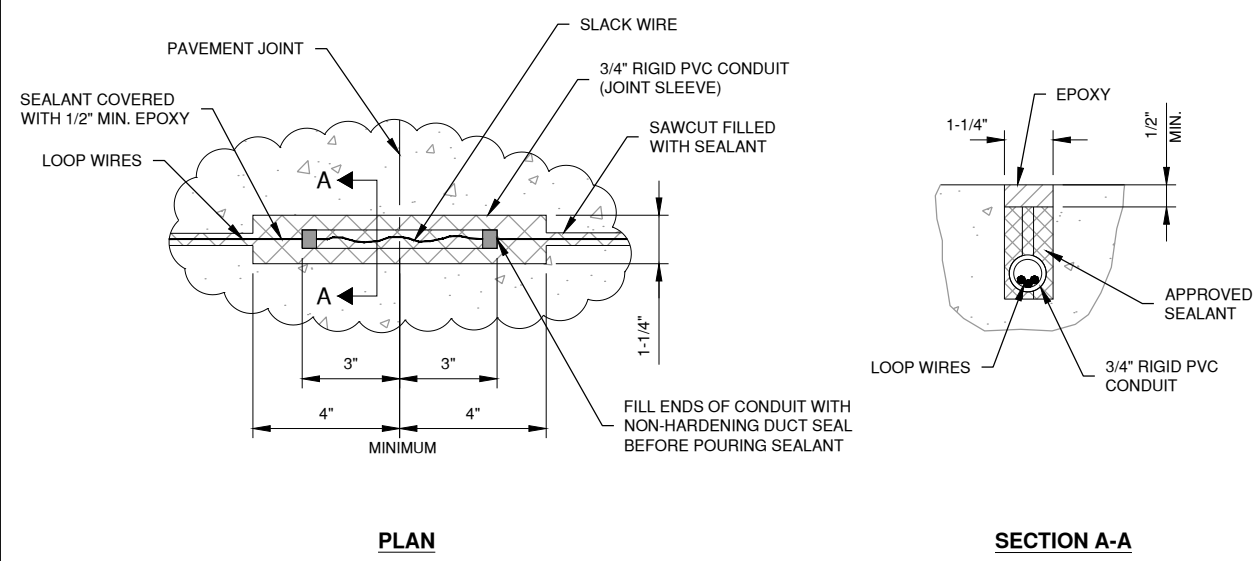
3 CANTILEVER SLIDE GATE DETAILS
N.T.S.



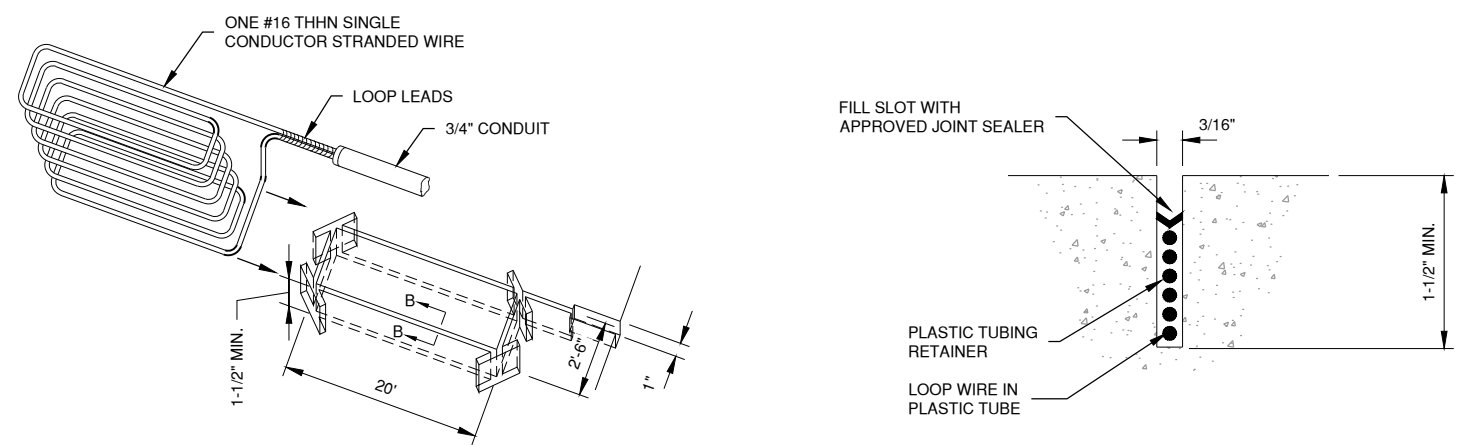
1 GATE PLAN (TYP.)
N.T.S.

NOTES

1. LOCATIONS, DETAILS AND CHARACTER OF EQUIPMENT SHOWN ON THIS SHEET ARE GENERIC. EQUIPMENT LOCATION SHALL BE AS SHOWN ON SHEET E100 AND/OR AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.



2 PCC JOINT CROSSING DETAIL
N.T.S.



3 DETECTOR LOOP DETAILS
N.T.S.

- DETECTOR LOOP NOTES**
1. LOOP LEADS ARE LIMITED TO 100 FEET.
 2. LOOP LEADS MUST HAVE FOUR (4) TWISTS PER FOOT.
 3. LOOP AND LOOP LEADS MUST BE LOCATED, AT LEAST, 18" FROM ANY ELECTRICAL POWER SERVICE OR STEEL REINFORCEMENT.
 4. LOOP LEADS MUST BE IN SEPARATE CONDUIT BETWEEN LOOP AND DETECTOR. THEY MUST NOT SHARE CONDUIT WITH OTHER WIRING OR LEADS FROM OTHER LOOPS.
 5. WIRE SHALL BE #16 THHN SINGLE CONDUCTOR STRANDED WIRE.
 6. ALL WIRE SHALL BE CONTINUOUS WITHOUT SPLICING.

CAUTION:

- DO NOT SPLICE WIRE.
- DO NOT FRACTURE WIRE INSULATION. LOOPS SHORTED TO GROUND WILL CAUSE DETECTOR MALFUNCTION. WHEN PLACING WIRE IN THE SLOT, DO NOT USE SCREWDRIVER OR OTHER SHARP TOOLS.

TYPICAL LAYOUT FOR LOOP:

- SAW SLOT 3/16" WIDE x 1-1/2" DEEP. MAKE RECTANGULAR SHAPE TO SPECIFIED LOOP DIMENSIONS PLUS SLOT FOR LEAD CONDUIT.
- GROUT WITH NO. 202 WEATHERBAN SEALANT (A PRODUCT OF 3M CO.) OR APPROVED EQUIVALENT ... (EXAMPLE: DE WITTS NO. 99 BLACK MASTIC CAULK).

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DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

STATE/LOCAL PROGRAM	
DNV-5046	CONTRACT: VE057
CMT PROJECT NO: 22004867	
CAD DWG FILE: CF505 ELECTRICAL GATE DETAIL 1.DWG	
DESIGNED BY: CT	
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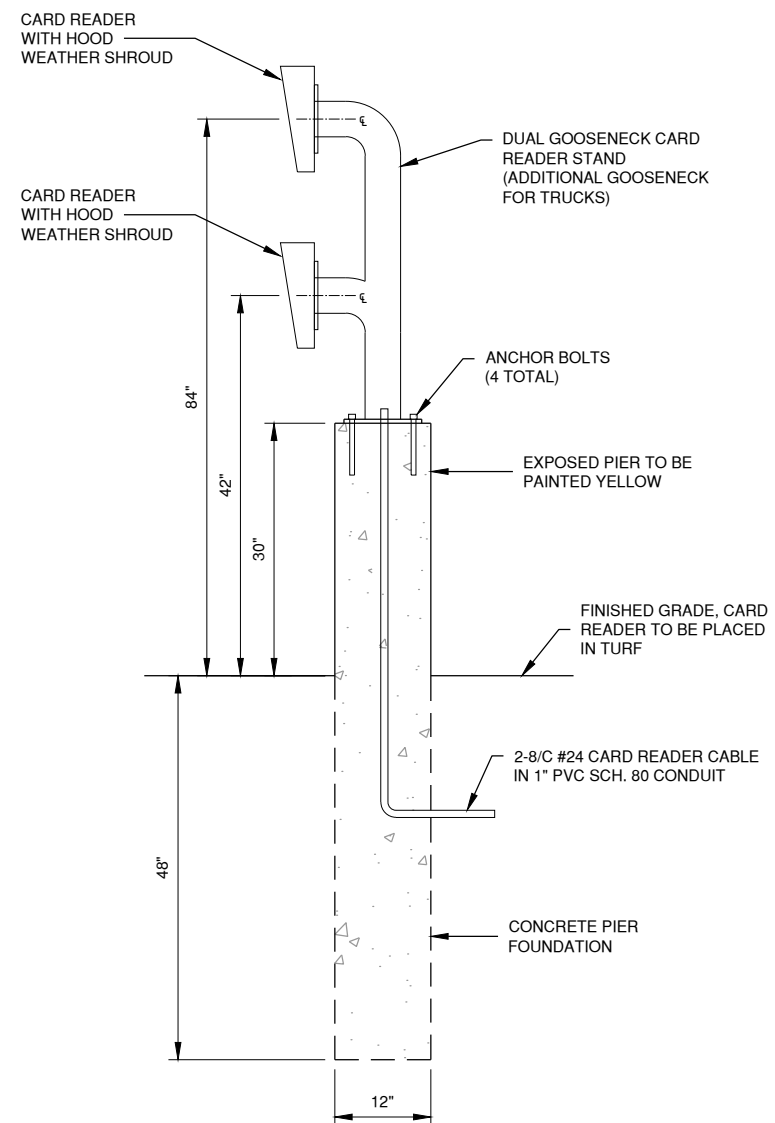
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ELECTRICAL GATE DETAIL 3

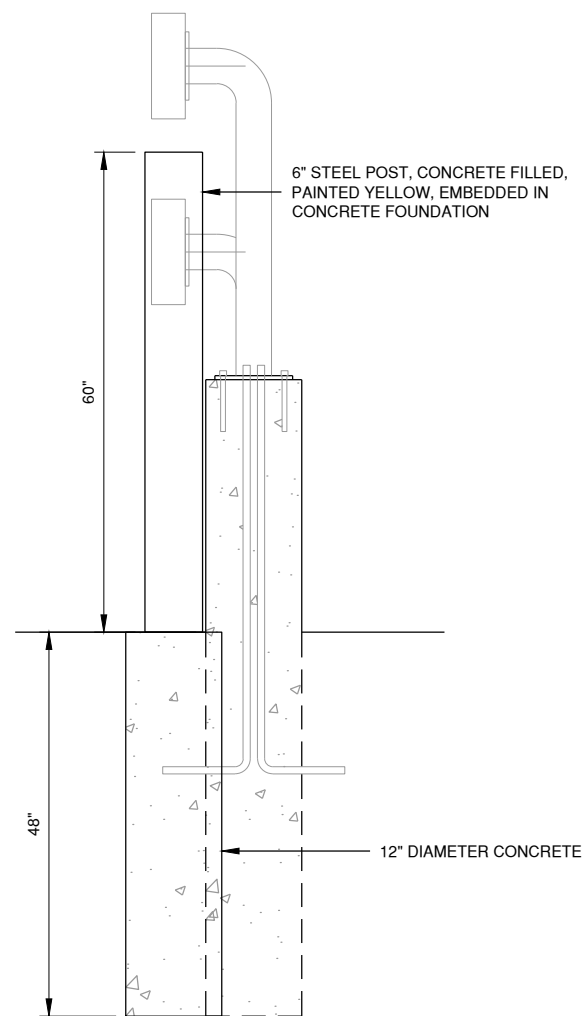
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SHEET 16 OF 19

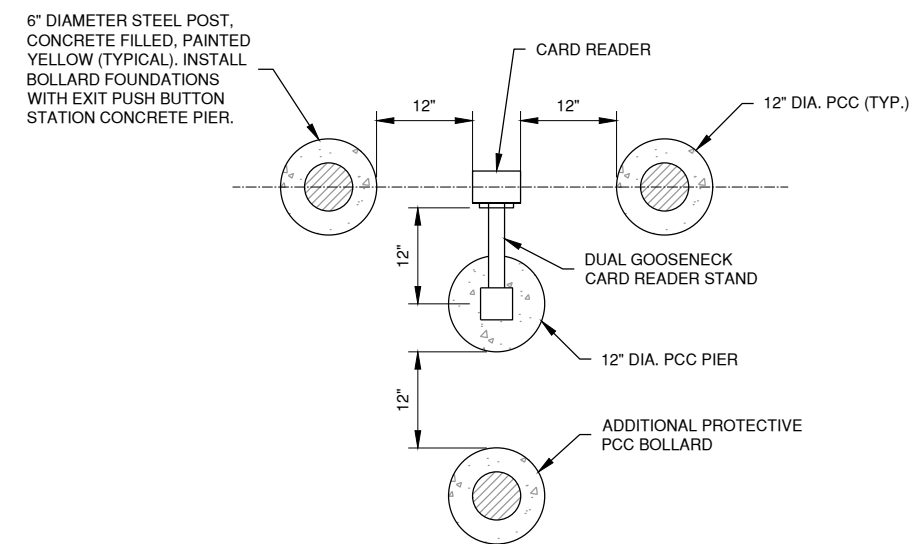
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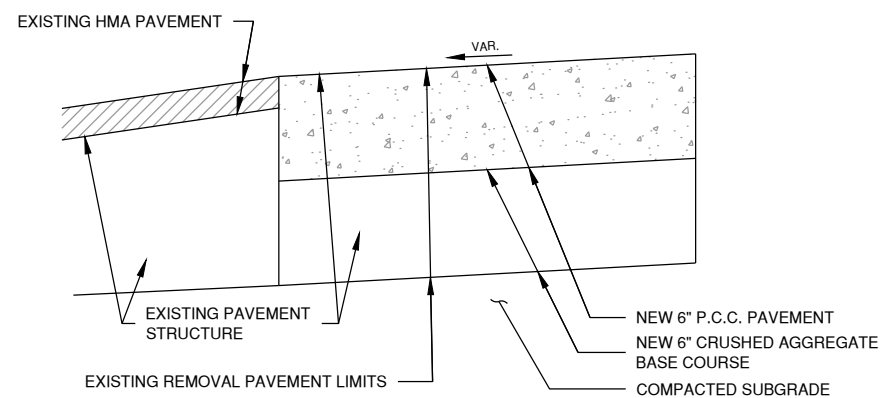
1 CARD READER ELEVATION DETAIL
N.T.S.



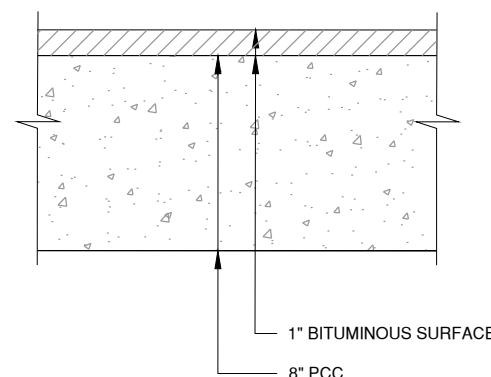
2 PROTECTIVE BOLLARD ELEVATION
N.T.S.



3 NEW CARD READER PLAN
N.T.S.



4 PCC APRON AT CARD READER
N.T.S.



NOTE:
OTHER PAVEMENT LAYERS
MAY EXIST. CONTRACTOR
TO FIELD VERIFY EXISTING
PAVEMENT STRUCTURE

5 EXIST. PAVEMENT STRUCTURE
N.T.S.

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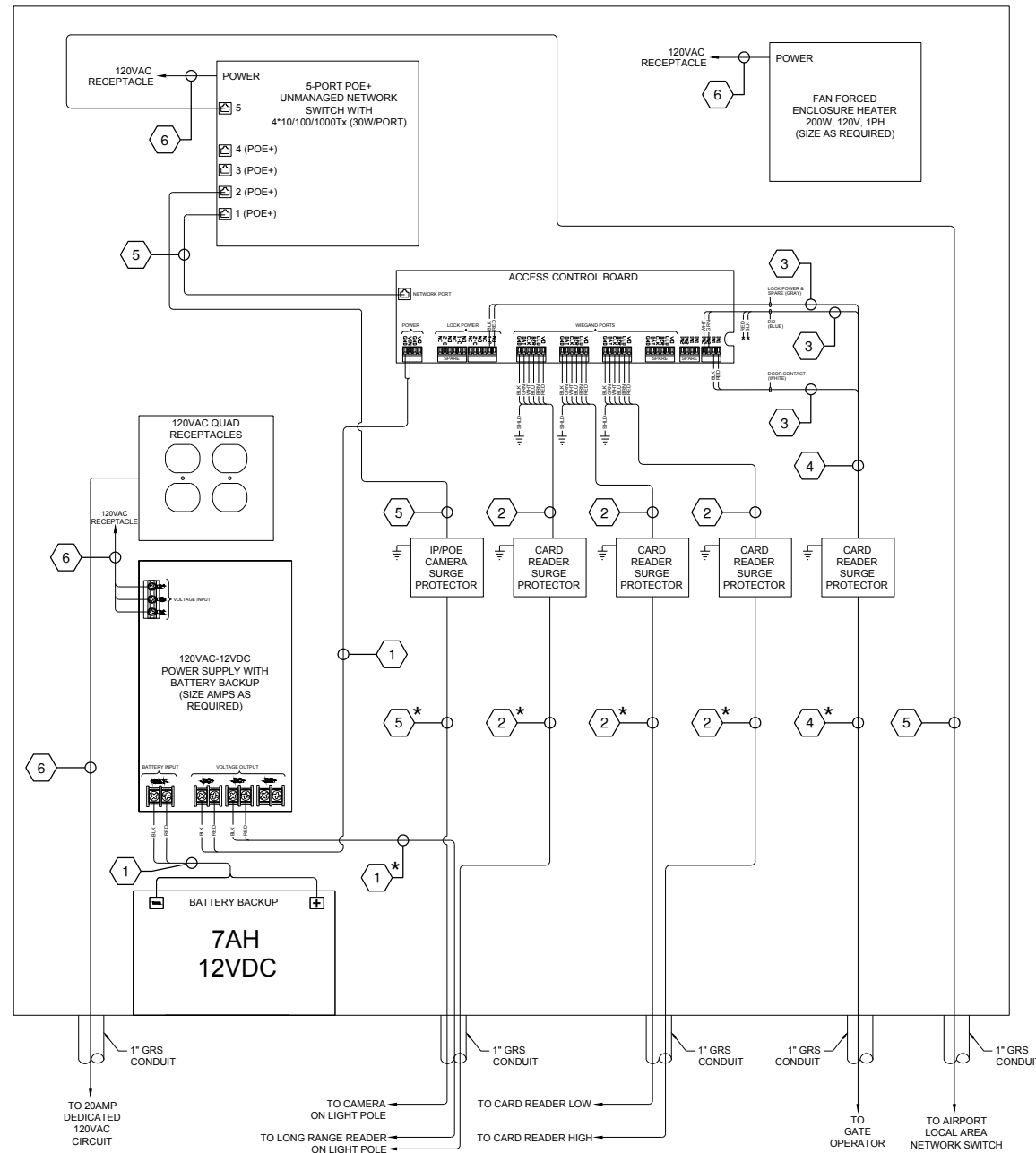
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VERMILION REGIONAL AIRPORT
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DANVILLE, ILLINOIS

MARK	DATE	DESCRIPTION

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CMT PROJECT NO: 22004867	
CAD DWG FILE: CF505 ELECTRICAL GATE DETAIL 1.DWG	
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**ELECTRIC GATE
DETAIL 4**

24" x 30" X 6" NEMA 12 ENCLOSURE OR SIZE AS REQUIRED



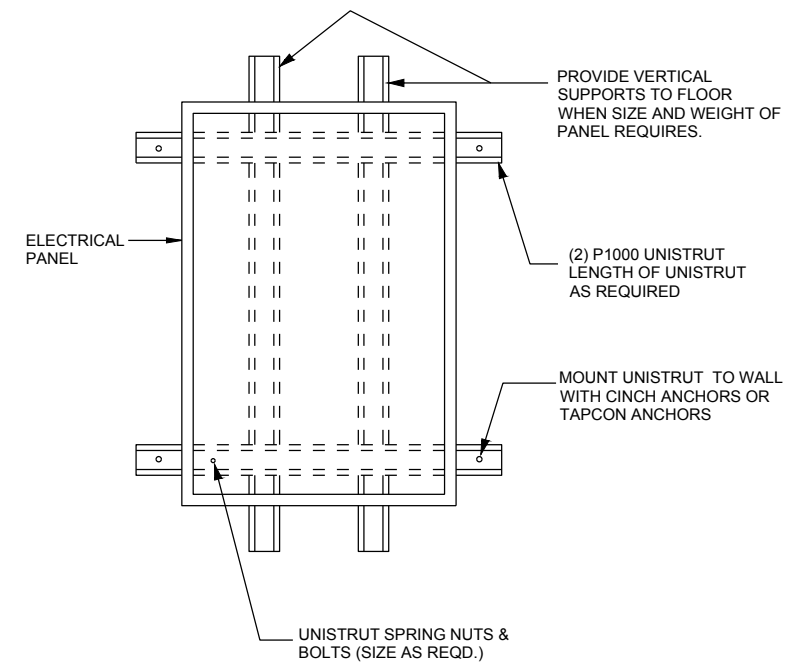
1 ACCESS CONTROL PANEL DETAIL AND WIRING DIAGRAM
N.T.S.

GENERAL NOTES

- EQUIPMENT SHOWN ON THIS SHEET ARE GENERIC. EQUIPMENT LOCATION SHALL BE AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.
- CONTRACTOR SHALL PROGRAM NEW ACCESS CONTROL PANEL AND NEW SECURITY CAMERA TO INTEGRATE WITH AIRPORT'S LOCAL AREA NETWORK.
- CABLES INFORMATION IS SHOWN AS A BASIS OF DESIGN. CONTRACTOR SHALL USE CABLES RECOMMENDED BY THE ACCESS CONTROL PANEL MANUFACTURER FOR A COMPLETE AND OPERATIONAL SYSTEM.

CABLE / CONDUIT LEGEND

- ① POWER: 1 PAIR, 18 AWG, STRANDED
 - ② CARD READER: 6 CONDUCTOR, 22 AWG, SHIELDED
 - ③ CONTROL: 1 PAIR, 18 AWG, STRANDED
 - ④ CABLE BUNDLE: 6 CONDUCTOR, 18 AWG, STRANDED
 - ⑤ ETHERNET NETWORK: 1 - CATEGORY 6 CABLE
 - ⑥ 120VAC POWER: 2-#12 (THWN-2), 1-#12 GND
- * DENOTES CABLE SHALL BE OUTDOOR RATED



- NOTES:**
- ALL UNISTRUT SHALL BE GALVANIZED.

2 TYPICAL PANEL MOUNTING DETAIL
N.T.S.



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MARK	DATE	DESCRIPTION

STATE/LOCAL PROGRAM	
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CMT PROJECT NO: 22004867	
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**ACCESS CONTROL
PANEL DETAIL**

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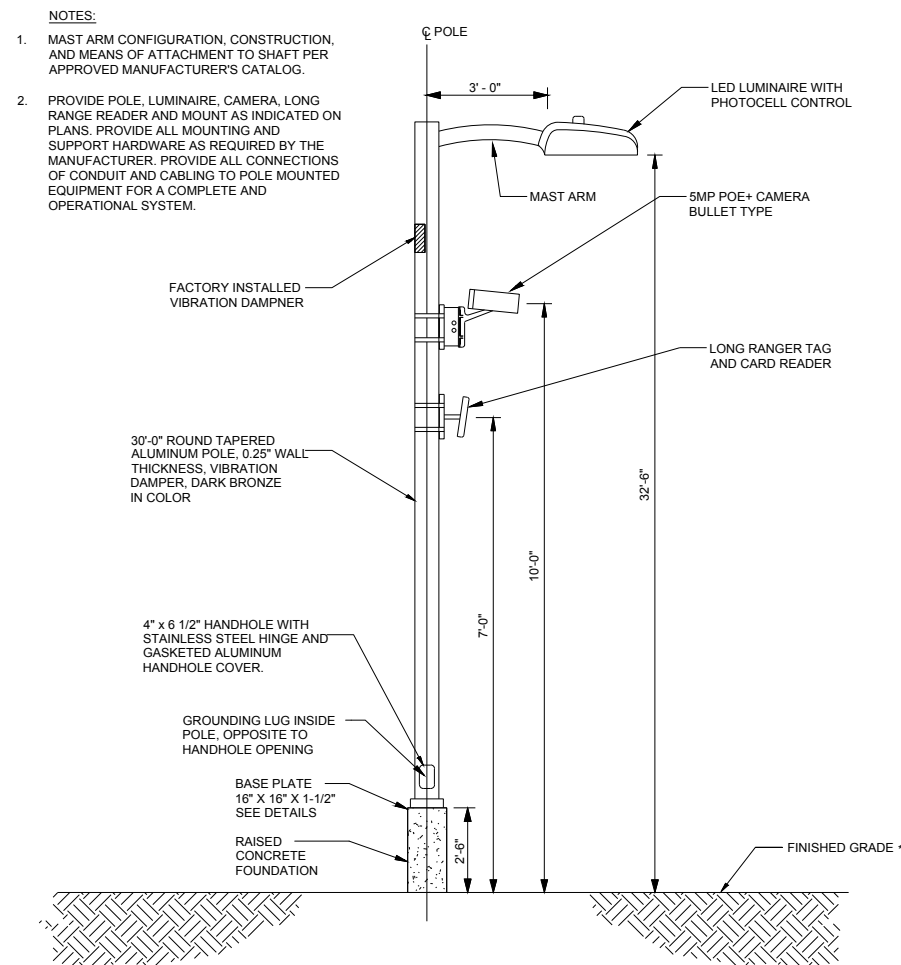


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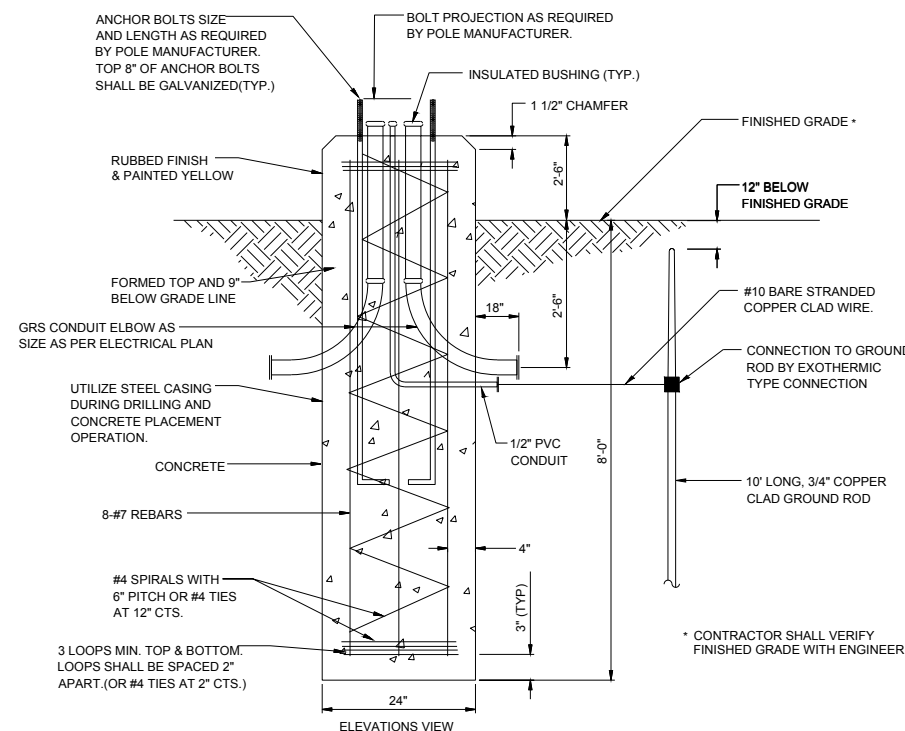
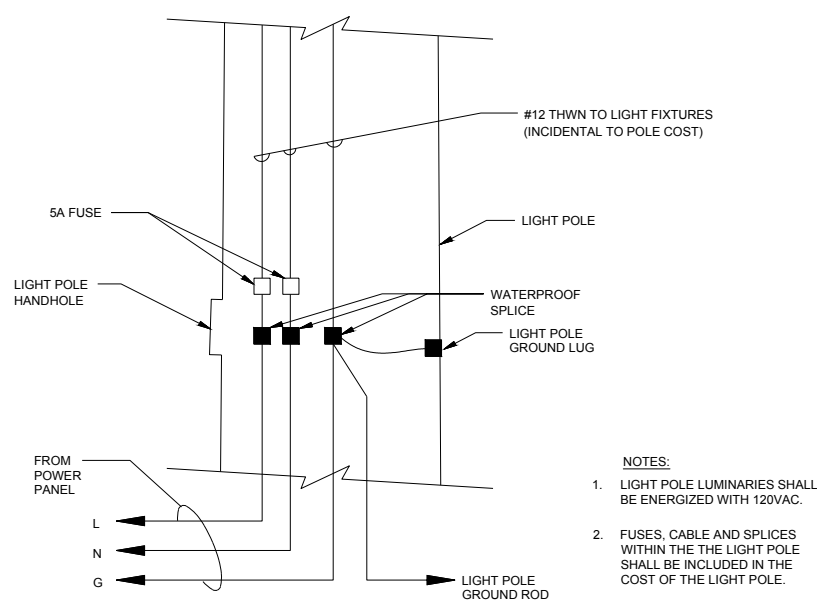
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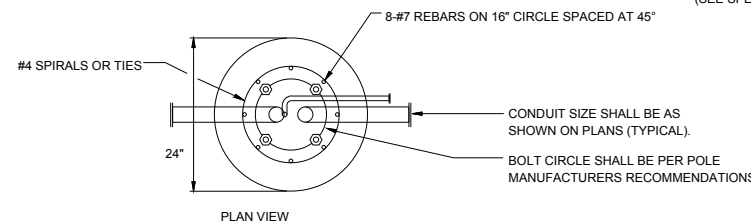
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**ELECTRICAL GATE
DETAIL 6**



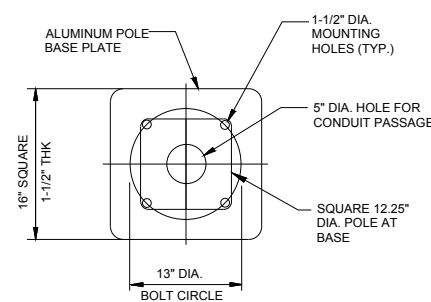
2 LIGHT POLE LUMINAIRE WIRING DIAGRAM
N.T.S.



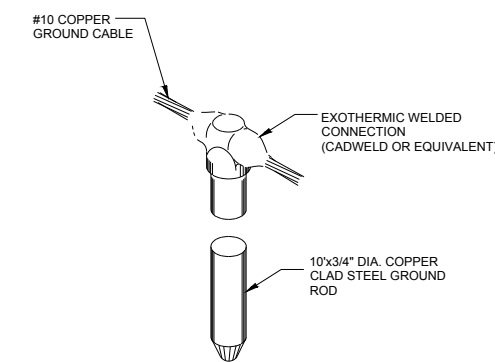
3 LIGHT POLE FOUNDATION SECTION DETAIL
N.T.S.



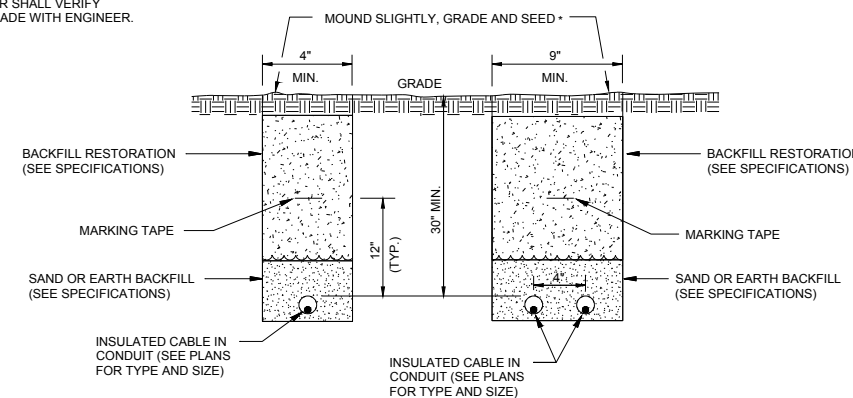
4 LIGHT POLE FOUNDATION PLAN DETAIL
N.T.S.



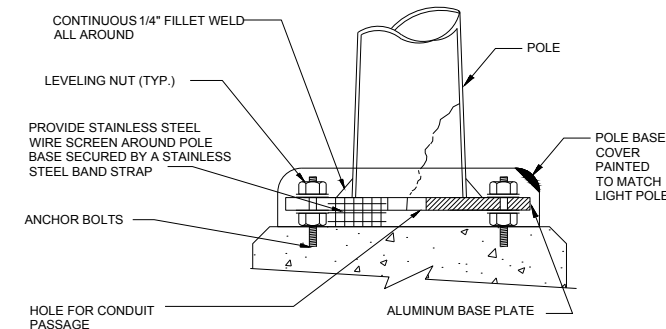
5 LIGHT POLE BASE PLAN DETAIL
N.T.S.



7 TYPICAL GROUND ROD DETAIL
N.T.S.



8 CABLE IN CONDUIT TRENCH DETAIL
N.T.S.



9 LIGHT POLE BASE SECTION DETAIL
N.T.S.