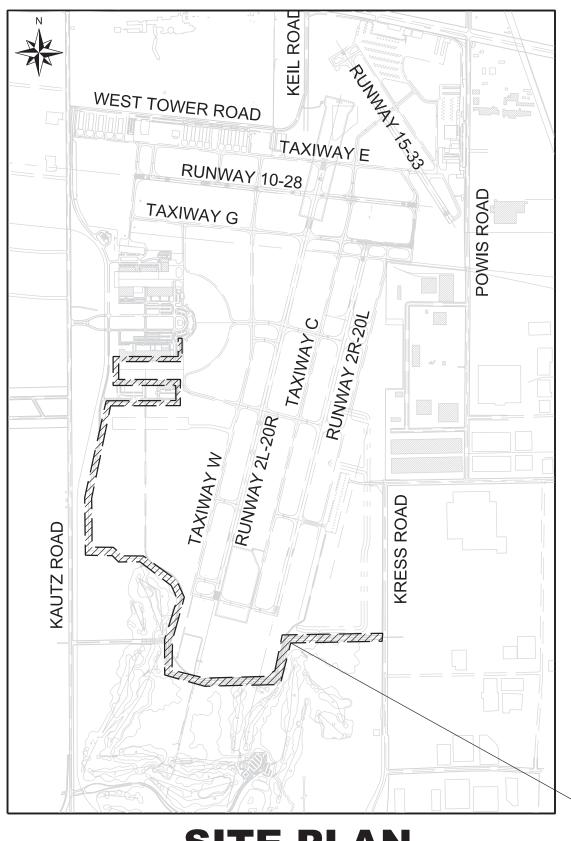
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DU087

DUPAGE AIRPORT AUTHORITY WEST CHICAGO, ILLINOIS



100% SUBMITTAL **FOR DUPAGE AIRPORT**

PHASE II - UPGRADE WILDLIFE HAZARD FENCING ON SOUTHERN AND WESTERN BOUNDARIES

ILLINOIS PROJECT: DPA-4773 LETTING DATE: JANUARY 17, 2020 ISSUE DATE: NOVEMBER 15, 2019

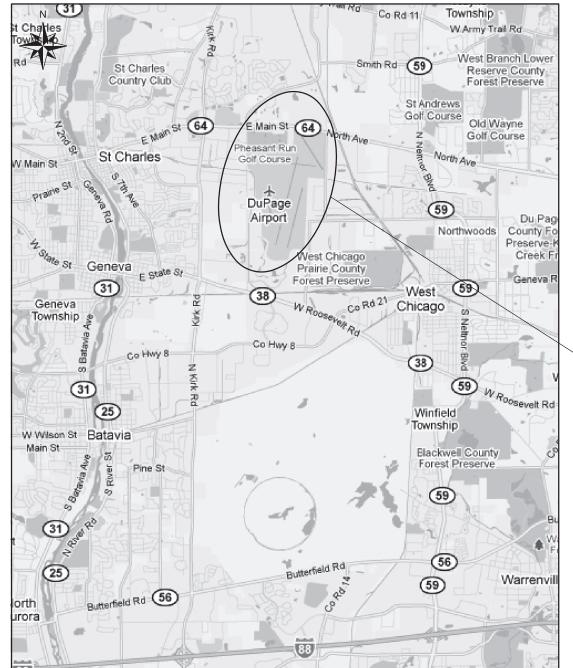


PROJECT

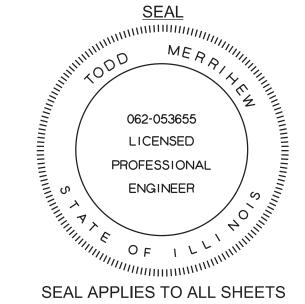
LOCATION













EXPIRES: 11/30/2019



4	PROJECT LOCATION PLAN
5	CONTRACTOR STAGING AND ACCESS ROUTE PLAN
6	CONSTRUCTION SAFTEY / PHASING PLAN 1
7	CONSTRUCTION SAFTEY / PHASING PLAN 2
8	CONSTRUCTION SAFTEY / PHASING PLAN DETAILS 1
9	CONSTRUCTION SAFTEY / PHASING PLAN DETAILS 2
10	CONSTRUCTION SAFTEY / PHASING PLAN DETAILS 3
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22	STORMWATER POLLUTION PREVENTION PLAN 1
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	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

DESCRIPTION

DRAWING NO. SHEET NO

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

SUMMARY OF QUANTITIES

SUMMAR	Y - ALL ITEMS			BASE BID
ITEM NO.	PAY ITEM	DESCRIPTION	UNIT	ESTIMATED QUANTITY
1	AR150520	MOBILIZATION	LS	1
2	AR150530	TRAFFIC MAINTENANCE	LS	1
3	AR156510	SILT FENCE	LF	3,930
4	AR156515	STRAW WATTLE	LF	800
5	AR156520	INLET PROTECTION	EA	22
6	AR152410	UNCLASSIFIED EXCAVATION	CY	552
7	AR152460	TOPSOIL STRIPPING	CY	959
8	AR162216	CLASS E MANUAL SLIDE GATE - 16'	EA	3
9	AR162224	CLASS E MANUAL SLIDE GATE - 24'	EA	2
10	AR162508	CLASS E FENCE 8'	LF	11,015
11	AR162608	CLASS E GATE - 8'	EA	1
12	AR162610	CLASS E GATE - 10'	EA	2
13	AR162716	ELECTRIC GATE - 16'	EA	1
14	AR162900	REMOVE CLASS E FENCE	LF	10,354
15	AR162908	REMOVE ELECTRIC GATE	EA	1

SUMMAR	Y - ALL ITEMS	BASE BID		
ITEM NO.	PAY ITEM	DESCRIPTION	UNIT	ESTIMATED QUANTITY
16	AR162910	REMOVE CLASS E GATE	EA	2
17	AR162920	REMOVE MANUAL SLIDE GATE	EA	3
18	AR162948	ADJUST ELECTRIC GATE	EA	2
19	AR209606	CRUSHED AGG BASE COURSE - 6"	SY	5,745
20	AR801759	WILDLIFE DETERRENT BARRIER	LF	12,944
21	AR801760	CONCRETE PAD AT GATES	CY	12
22	AR801762	BARBED WIRE 3 STRANDS	LF	13,003
23	AR901510	SEEDING	AC	2.1
24	AR908510	MULCHING	AC	2.1
25	AS162401	VINYL FENCE UPGRADE	LF	11,155

NOTE:
ALL PAY ITEMS INCLUDED IN THE PLAN SUMMARY OF QUANTITY TABLE ARE SHOWN WITH AN "AR" DESIGNATION (EXAMPLE ITEM AR162905 GATE REMOVAL) WHICH INDICATES A BASE BID PAY ITEM AND QUANTITY. ADDITIVE ALTERNATE PAY ITEMS SHALL BE DESIGNATED BY "AS" CORRESPONDING TO ADDITIVE ALTERNATE 1.

BID ADDITIVES:
BID ADDITIVE 1 - QUANTITIES ARE REPRESENTATIVE OF ADDING VINYL COATING TO THE PROPOSED FENCE AND GATES.

ABBREVIATIONS:

ELEVATION EXTRA STRONG VITRIFIED CLAY PIPE

EXISTING

EL or ELEV ESVCP EX

AB ABV A/C AC ADJ AGG AGS ALD ALSF ARFF AS ASPH ASTM AUX AVE. ATCT AX	AGGREGATE BASE ABOVE ACCESS CONTROL ACRES ADJUST AGGREGATE AUXILIARY GAS VALVE AIRFIELD LIGHTING DUCT APPROACH LIGHTING SEQUENCE FLASHERS AIRPORT RESCUE AND FIRE FIGHTING AERIAL SURVEYS ASPHALT AMERICAN SOCIETY FOR TESTING AND MATERIALS AUXILIARY AVENUE AIR TRAFFIC CONTROL TOWER AXIS OF ROTATION
B-B BLVD BM BV	BACK TO BACK BOULEVARD BENCHMARK BALL VALVE
CL CB CC CED CI CM CMH CMP COMED COMM CONC C.Y. CSPN	CENTERLINE CATCH BASIN CENTER TO CENTER COMBINED / COMMON ELECTRICAL DUCTBANK CAST IRON CONSTRUCTION MANAGER COMMUNICATION MANHOLE CORRUGATED METAL PIPE COMMONWEALTH EDISON COMMUNICATIONS CONCRETE CUBIC YARD CARGO SITE PREP NORTH
DAA DET DIA. DIP DME DOA	DUPAGE AIRPORT AUTHORITY DETAIL DIAMETER DUCTILE IRON PIPE DISTANCE MEASURING EQUIPMENT DEPARTMENT OF AVIATION
EMH	EAST EASMENT EDGE DRAIN ELECTRIC MANHOLE

ABBREVIATIONS:

FAA FFM FH FT	FEDERAL AVIATION ADMINISTRATION FAR FIELD MONITOR FIRE HYDRANT FEET
G	GRADE
GRND	GROUND
GS	GLIDE SLOPE
HR	HANGAR ROAD
HV	HIGH VOLTAGE
IDOT ILS IE or I.E. ID IH INV.	ILLINOIS DEPARTMENT OF TRANSPORTATION INSTRUMENT LANDING SYSTEM INVERT ELEVATION IDENTIFICATION INSPECTION HOLE INVERT
JC	JUNCTION CHAMBER
JV	JOINT VALVE
KV	KILOVOLT
K=L/A	LENGTH OF VERTICAL CURVE/ALGEBRAIC DIFFERENCE IN GRADE
L	LENGTH
L.S.	LUMP SUM
LOC	LOCALIZER
MAX MH MIN MJ MPR	MAXIMUM MANHOLE MINIMUM MECHANICAL JOINT MOUNT PROSPECT ROAD
N	NORTH
NAVD	NORTH AMERICAN VERTICAL DATUM
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN
N.I.C.	NOT IN CONTRACT
NTS	NOT TO SCALE
NO	NUMBER
NPR	NORTH PERIMETER ROAD
O.D. OFA OZ	OUTSIDE DIAMETER OBJECT FREE AREA OUNCE

ABBREVIATIONS:

/ (DD) (L	
PAPI PC PCC PCCP P.I. PL PT PVC PVI PVT PVC PIPE PSI	PRECISION APPROACH PATH INDICATOR LIGHTS POINT OF CURVATURE POINT OF COMPOUND CURVATURE PORTLAND CEMENT CONCRETE PAVEMENT POINT OF INTERSECTION PROPERTY LINE POINT OF TANGENCY POINT OF VERTICAL CURVATURE POINT OF VERTICAL INTERSECTION POINT OF VERTICAL TANGENCY POLYVINYL CHLORIDE PIPE POUNDS PER SQUARE INCH
R RAD RC RCP RPP RPU REV. RGS RD. RSA R/W RPZ	REMOVE RADIUS REINFORCED CONCRETE REINFORCED CONCRETE PIPE REINFORCED POLYPROPYLENE REMOTE PROCESSING UNIT REVISION RIGID STEEL ROAD RUNWAY SAFETY AREA RUNWAY RUNWAY PROTECTION ZONE
SA SCH SD SHT S SQR S.F. S.Y. STA ST. ST	SANITARY SCHEDULE STORM DRAIN SHEET SOUTH SQUARE SQUARE SQUARE FEET SQUARE YARD STATION STREET STORM SEWER
T T.S. TSA T/W TDZ TYP	TANGENT TANGENT SPIRAL TAXIWAY SAFETY AREA TAXIWAY TOUCHDOWN ZONE TYPICAL
UD or U.D. UMH U.N.O.	UNDERDRAIN UNDERDRAIN MANHOLE UNLESS NOTED OTHERWISE
VERT. VPI W W/ WMG YD	VERTICAL VERTICAL POINT OF INTERSECTION WEST WITH WEST MASS GRADING YARD

SUMMARY OF QUANTITIES AND ABBREVIAITONS **VERIFY SCALE** BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DPA-4773 G-101

2 of 26

- 1. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT PLANS AND SPECIFICATIONS AND ANY RULES, REGULATIONS, STANDARDS AND SPECIFICATIONS REFERENCED THEREIN. THE PROJECT IS SUBJECT TO INSPECTION BY REPRESENTATIVES OF THE DUPAGE AIRPORT AUTHORITY (DAA), THE FEDERAL AVIATION ADMINISTRATION (FAA), THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT), THE TRANSPORTATION SECURITY ADMINISTRATION (TSA), AND OTHER GOVERNING AGENCIES.
- 2. THE PROJECT IS TO BE COMPLETED IN A TIMELY MANNER IN ACCORDANCE WITH THE CONTRACTOR'S APPROVED PROJECT SCHEDULE. THE SCHEDULE SHALL BE PROVIDED FOR COMPLETION OF THE WORK AS SHOWN ON THE PLANS AND DESCRIBED IN THE CONTRACT SPECIFICATIONS. THE CONTRACTOR SHALL KEEP AIRPORT OPERATIONS INFORMED OF UPDATES TO THE PROJECT SCHEDULE AT ALL TIMES.
- 3. THE CONTRACTOR SHALL COMPLETE THE ENTIRE PROJECT WITHIN THE TIME STATED IN THE CONTRACT.
- 4. THE AIRPORT WILL BE IN OPERATION DURING THE CONSTRUCTION OF THIS PROJECT. COORDINATION OF WORK WITH THE DAA, FAA, IDOT AND LOCAL ATCT REPRESENTATIVES IS MANDATORY TO MINIMIZE IMPACTS ON AIRPORT OPERATIONS.
- 5. CONSTRUCTION AND MAINTENANCE OPERATIONS BY OTHERS MAY OCCUR CONCURRENTLY AND AT TIMES IN THE VICINITY OF CONSTRUCTION ASSOCIATED WITH THIS PROJECT. THE CONTRACTOR SHALL COORDINATE HIS OPERATIONS AND COOPERATE WITH MAINTENANCE CREWS AND OTHER CONTRACTORS WORKING ON THE AIRPORT. CONTRACTOR COORDINATION WITH APPROPRIATE GOVERNMENT AND UTILITY AGENCIES IS ALSO REQUIRED PRIOR TO AND DURING CONSTRUCTION.
- 6. ACCESS TO THE SITE THE CONTRACTOR'S ACCESS POINTS TO THE SITE SHALL BE THROUGH DESIGNATED SECURITY GATES AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL VEHICLES AND PERSONNEL THAT ENTER THROUGH THESE DESIGNATED AIRPORT SECURITY GATES. AIRPORT SECURITY GATES SHALL BE SECURED AT ALL TIMES WHEN NOT IN USE.
- 7. HAUL ROUTES THE CONTRACTOR'S ON-AIRPORT HAUL ROUTES AND CONSTRUCTION ACCESS SHALL BE EXISTING HAUL ROADS WHERE AVAILABLE. ANY DEBRIS (WHETHER CAUSED BY THE CONTRACTOR OR NOT) SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE OFF-SITE HAUL ROUTES (STATE HIGHWAYS, COUNTY ROADS, OR CITY STREETS) WITH THE APPROPRIATE OWNER WHO HAS JURISDICTION OVER THE AFFECTED ROUTE. ON-SITE ROADS USED AS HAUL ROUTES/CONSTRUCTION ACCESS SHALL BE MAINTAINED AND STABILIZED BY THE CONTRACTOR AS REQUIRED TO SUPPORT CONSTRUCTION EQUIPMENT THROUGHOUT THE DURATION OF THIS PROJECT AND SHALL BE RESTORED, AT THE CONTRACTOR'S EXPENSE, TO THEIR ORIGINAL CONDITION UPON COMPLETION OF BEING USED AS A HAUL ROUTE/CONSTRUCTION ACCESS UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. THE BEFORE AND AFTER CONDITION OF ON-SITE HAUL ROUTES/CONSTRUCTION ACCESS SHALL BE JOINTLY INSPECTED AND AGREED UPON BY THE CONTRACTOR AND THE RESIDENT ENGINEER. FENCING, DRAINAGE, GRADING AND OTHER MISCELLANEOUS CONSTRUCTION REQUIRED TO CONSTRUCT/REMOVE TEMPORARY HAUL ROUTES OR ACCESS POINTS ON THE AIRPORT WILL BE THE CONTRACTOR'S TOTAL RESPONSIBILITY AND SHALL BE APPROVED BY THE RESIDENT ENGINEER PRIOR TO COMMENCING THE WORK. ALL ON-SITE ACCESS ROADS TO AIRPORT FACILITIES SHALL REMAIN OPEN AND MAINTAINED AT ALL TIMES.
- 8. CONTRACTOR'S STAGING AREAS AN AREA WILL BE MADE AVAILABLE FOR CONTRACTOR'S MOBILIZATION AND STORAGE AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES, FENCE, TREES, ETC. WITHIN THE STAGING AREA AND THE SITE SHALL BE RESTORED TO ITS ORIGINAL CONDITION WITHIN THIRTY (30) DAYS OF THE COMPLETION OF USE. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED. CONTRACTOR'S EQUIPMENT SHALL BE STORED IN THE EQUIPMENT AND MATERIAL STORAGE/STAGING AREA WHEN CONSTRUCTION IS NOT IN PROGRESS.
- 9. DISPOSAL AREAS EXCESS SOILS, MILLED ASPHALT, CONCRETE RUBBLE, FENCE POSTS, FENCE FOOTINGS, FENCE FABRIC AND UNSUITABLE EXCAVATION MUST BE DISPOSED AT APPROVED LOCATIONS OFFSITE. OFFSITE DISPOSAL AREAS SHALL BE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL LAWS.
- 10. SAFETY THE CONTRACTOR SHALL CONDUCT ALL ACTIVITIES IN A SAFE MANNER AS SPECIFIED BY LOCAL, STATE AND FEDERAL LAWS.
- 11. EXISTING AIRFIELD LIGHTING SYSTEMS NO INTERRUPTIONS OF EXISTING AIRFIELD LIGHTING SYSTEMS ARE ANTICIPATED IN THIS PROJECT AND SHALL NOT BE PERMITTED. ALL AIRFIELD LIGHTING CIRCUITS AFFECTED BY THIS PROJECT SHALL BE TEMPORARILY MAINTAINED BY THE CONTRACTOR DURING OPERATIONAL PERIODS AND COORDINATED THROUGH THE RESIDENT ENGINEER. THE CONTRACTOR SHALL IMMEDIATELY REPLACE RUNWAY/TAXIWAY SIGNS AND LIGHTS DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATION AT THE CONTRACTOR'S EXPENSE.
- 12. CONSTRUCTION LIMITS ALL CONTRACTOR VEHICLES AND TRAFFIC (UNLESS OTHERWISE AUTHORIZED) SHALL REMAIN WITHIN THE DESIGNATED STAGING AREA, CONSTRUCTION LIMITS AND HAUL ROUTES. CONSTRUCTION, STORAGE AND STOCKPILING LIMITS ARE FURTHER DEFINED IN THE SECTION TITLED, "SAFETY REQUIREMENTS DURING CONSTRUCTION".

- 13. PORTABLE FLOODLIGHTING IF NEEDED, THE CONTRACTOR SHALL PROVIDE PORTABLE FLOODLIGHTING AS REQUIRED FOR NIGHT CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL PROVIDE SUFFICIENT UNITS SO THAT ALL WORK AREAS ARE ILLUMINATED TO A MINIMUM LEVEL OF 5 HORIZONTAL FOOT CANDLES. THE LIGHTING LEVELS SHALL BE CALCULATED AND MEASURED IN ACCORDANCE WITH THE CURRENT STANDARDS OF THE ILLUMINATION ENGINEERING SOCIETY. THE CONTRACTOR SHALL COORDINATE THE USE OF FLOODLIGHTING WITH THE AIR TRAFFIC CONTROL TOWER TO ENSURE LIGHTING DOES NOT COMPROMISE THE CONTROL TOWER PERSONNEL'S VISIBILITY OR CAUSE CONFUSION TO PILOTS.
- 14. THE CONTRACTOR SHALL OBTAIN ALL PERMITS AND LICENSES REQUIRED FOR THE CONSTRUCTION WORK. REFER TO THE SPECIAL CONDITIONS AND GENERAL CONDITIONS SECTIONS OF THE CONTRACT DOCUMENTS.
- 15. EXISTING TOPOGRAPHIC, UNDERGROUND AND ABOVE GROUND UTILITY DATA FOR THIS PROJECT WERE OBTAINED FROM AVAILABLE "AS-BUILTS" AND ARE FOR REFERENCE ONLY. UTILITIES MUST BE FIELD LOCATED.
- 16. PROTECTION AND REPAIR OF EXISTING UTILITIES LOCATIONS OF KNOWN EXISTING AIRPORT UNDERGROUND UTILITIES ARE SHOWN ON THE PLANS FOR INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY ALL UTILITIES. BY VISUAL. ELECTRICAL AND BY HAND EXCAVATION OR OTHER METHODS IN COORDINATION WITH ALL UTILITY COMPANIES AND DAA FACILITIES, PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. ANY AND ALL CONFLICTS OF EXISTING UTILITIES BY THE PROPOSED IMPROVEMENTS SHALL BE RESOLVED WITH THE RESIDENT ENGINEER PRIOR TO BEGINNING THE CONSTRUCTION ACTIVITIES. ANY REPAIRS TO EXISTING UTILITIES DAMAGED BY CONTRACTOR ACTIVITIES SHALL BE COMPLETED IMMEDIATELY BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL SUCH REPAIRS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND SHALL BE AT THE CONTRACTOR'S EXPENSE. IF FAA CABLES ARE DAMAGED, REPAIRS SHALL BE DONE IN ACCORDANCE WITH FAA REQUIREMENTS AND IN THE PRESENCE OF AN FAA REPRESENTATIVE. THE FAA MAY ELECT TO HAVE THE REPAIR PERFORMED BY OTHERS. IN WHICH CASE THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING THE INCURRED COSTS OF REPAIRS AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 17. IF ANY UNUSUAL ODORS, SOIL STAINS OR BURIED WASTES ARE ENCOUNTERED, STOP WORK IMMEDIATELY AND NOTIFY THE OWNER, AND/OR RESIDENT ENGINEER.

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- 18. THE CONTRACTOR SHALL FURNISH THE OWNER FIVE (5) SETS OF OPERATION AND MAINTENANCE MANUALS FOR ALL NEW EQUIPMENT INSTALLED.
- 19. WORK PERFORMED UNDER THIS CONTRACT WILL NOT BE CONSIDERED COMPLETE UNTIL FINAL ACCEPTANCE OF THE PROJECT BY THE OWNER AND RECEIPT AND APPROVAL OF THE FOLLOWING DOCUMENTS:

A) CONTRACTOR'S WAIVER AND RELEASE OF LIEN.
B) ABSOLUTE BILL OF SALE.
C) CONTRACTOR'S LETTER OF WARRANTY (I.E., LETTER AGREEMENT).

F) TRANSFER OF OWNER WARRANTY.

D) CONTRACTOR AS-BUILTS.E) FINAL PUNCH LIST COMPLETED AND ACCEPTED BY THE RESIDENT ENGINEER.

20. IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, PREVAILING WAGE RATES SHALL BE POSTED AT THE CONTRACTOR STAGING AREA IN A WEATHERPROOF ENCLOSURE

AND COPIES SHALL BE SUBMITTED TO THE RESIDENT ENGINEER AND THE OWNER.

- 21. CONTRACTOR SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL TO ALLOW FOR A MINIMUM OF ONE LANE OF TRAFFIC AT ALL TIMES AND CONTRACTOR SHALL MAINTAIN ACCESS TO BUILDING PARKING LOTS AT ALL TIMES DURING CONSTRUCTION. (INCIDENTAL TO THE CONTRACT).
- 22. WHERE THE CONTRACTOR IS IMPACTING EXISTING GRADES THE CONTRACTOR SHALL CONSTRUCT ALL IMPROVEMENTS TO DRAIN OFF. ANY AREAS IMPACTED BY THE CONTRACTOR THAT ARE FOUND TO NOT DRAIN PROPERLY BY THE ENGINEER SHALL BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.
- 23. MATERIALS REMOVED FROM THE PROJECT WILL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF AIRPORT PROPERTY, UNLESS NOTED OTHERWISE.
- 24. CONTRACTOR WILL BE REQUIRED TO PUT AIRPORT FLAGS OR A WORKING BEACON LIGHT ON ALL EQUIPMENT AT ALL TIMES DURING CONSTRUCTION.
- 25. TRAFFIC CONTROL DEPICTED IN THESE PLANS AND THE APPLICABLE IDOT DETAILS AND STANDARDS ARE THE MINIMUM REQUIREMENTS. TRAFFIC CONTROL AND PROTECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, DIVISION 700; APPLICABLE GUIDELINES IN THE ILLINOIS MANUAL ON UNIFORM TRAFFIC DEVICES FOR STREETS AND HIGHWAYS; AND APPLICABLE HIGHWAY STANDARDS FOR TRAFFIC CONTROL.

- 26. CONTRACTOR FIELD STAFF SHALL ATTEND DPA SAFETY MEETING PRIOR TO MOBILIZATION.
- 27. SURVEYOR IS REQUIRED FOR THE FENCE LAYOUT. UTILIZE TABLE ON SHEET G-205 FOR FENCE COORDINATES AND SHEET G-201 THRU G-204 FOR LAYOUT INFORMATION. AS BUILT SURVEY OF THE FINAL ALIGNMENT IS REQUIRED.
- 28. CONTRACTOR TO ACQUIRE ANY TEMPORARY EASEMENTS, PERMITS AND/OR PERMISSION NEEDED FROM ADJACENT LAND OWNERS FOR THE CONSTRUCTION WITH ANY ASSOCIATED COSTS INCIDENTAL TO THE PROJECT.

GENERAL PROJECT DESCRIPTION

1. THE WORK GENERALLY CONSISTS OF:

•REMOVAL OF EXISTING 6-FT SECURITY FENCING, GATES, POSTS, AND FOUNDATIONS
•INSTALLATION OF 8-FT SECURITY FENCING, GATES, POSTS AND FOUNDATIONS WITH 3
STRAND BARBED WIRE, WILDLIFE DETERRENT FENCE BARRIER AND 4-FT WIDE
VEGATATION FREE ZONE OR ADDITION OF 3 STRAND BARBED WIRE, WILDLIFE DETERRENT
BARRIER AND 4-FT WIDE VEGATATION FREE ZONE TO THE EXISITNG 8-FT SECURITY
FENCING

·INSTALLATION OF WILDLIFE DETERRENT PAD UNDER GATES

SECURITY NOTES

- 1. THE CONTRACTOR SHALL DESIGNATE TO THE RESIDENT ENGINEER IN WRITING THE NAME OF ITS 'CONTRACTOR SECURITY OFFICER' (C.S.O.). THE C.S.O. SHALL REPRESENT THE CONTRACTOR ON THE SECURITY REQUIREMENTS FOR THE CONTRACT. IT IS THE CONTRACTORS RESPONSIBILITY TO FAMILIARIZE HIMSELF/HERSELF WITH THE VARIOUS ASPECTS OF FAR 49 CFR PART 1542: "AIRPORT SECURITY", ADMINISTERED BY THE TRANSPORTATION SECURITY ADMINISTRATION (TSA). ANY VIOLATION OF CFR PART 1542 BY THE CONTRACTOR AND ANY SUBSEQUENT FINES IMPOSED DUE TO THE VIOLATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 2. CONTRACTOR PERSONNEL SECURITY ORIENTATION: THE C.S.O. SHALL BE RESPONSIBLE FOR BRIEFING ALL CONTRACTOR PERSONNEL ON THESE REQUIREMENTS AND PROVISIONS ADOPTED BY THE DUPAGE AIRPORT AUTHORITY (DAA). ALL NEW CONTRACTOR EMPLOYEES SHALL BE BRIEFED ON THESE REQUIREMENTS PRIOR TO WORKING IN THE CONSTRUCTION AREA.
- 3. ACCESS TO SITE: THE AIRPORT WILL PROVIDE AIRFIELD OPERATIONS AREA ESCORTS AT NO COST TO THE CONTRACTOR. CONTRACTOR'S ACCESS TO THE SITE SHALL BE AS SHOWN ON THE SAFETY PLAN OR AS DIRECTED BY THE RESIDENT ENGINEER. NO OTHER ACCESS POINT SHALL BE ALLOWED UNLESS APPROVED BY THE RESIDENT ENGINEER. IF GATE IS TO BE LEFT UNLOCKED, CONTRACTOR SHALL PROVIDE GATE GUARDS FOR THE DURATION OF THE UNLOCKED CONDITION. ALL CONTRACTOR TRAFFIC AUTHORIZED TO ENTER THE SITE SHALL BE EXPERIENCED IN THE ROUTE OR ESCORTED BY THE CONTRACTOR PERSONNEL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL TO AND FROM THE ACCESS GATE TO THE SITE. A CONTRACTOR'S FLAGMAN OR TRAFFIC CONTROL PERSON SHALL MONITOR AND COORDINATE ALL CONTRACTOR TRAFFIC AT THE ACCESS GATE. THE CONTRACTOR SHALL NOT PERMIT ANY UNAUTHORIZED CONSTRUCTION PERSONNEL OR TRAFFIC ON THE AIRPORT OPERATIONS AREA (AOA). DIRECTIONAL SIGNING ALONG THE DELIVERY ROUTE TO THE STORAGE AREA OR WORK SITE SHALL BE AS DIRECTED BY THE RESIDENT ENGINEER.
- 4. CONSTRUCTION AREA LIMITS: THE LIMITS OF CONSTRUCTION, MATERIAL STORAGE AREAS, PARKING AREA AND OTHER AREAS DEFINED FOR THE CONTRACTOR'S EXCLUSIVE USE DURING CONSTRUCTION SHALL BE MARKED AND LIGHTED. THE CONTRACTOR SHALL ERECT AND MAINTAIN FENCING AROUND THE PERIMETER OF THESE AREAS AND VISIBLE DEVICES FOR DAY/NIGHT USE. TEMPORARY BARRICADES, FLAGGING AND FLASHING WARNING LIGHTS WILL BE REQUIRED AT CRITICAL ACCESS POINTS. THE TYPE OF MARKING AND WARNING DEVICES SHALL BE APPROVED BY THE RESIDENT ENGINEER AND AIRPORT OPERATIONS.
- 5. THE C.S.O. SHALL PROVIDE OPERATIONS AND THE RESIDENT ENGINEER A CURRENT LIST OF COMPANIES AUTHORIZED TO CONDUCT WORK ON THE AIRPORT. CONTRACTOR EMPLOYEE PERSONAL VEHICLES SHALL BE RESTRICTED TO THE CONTRACTORS EMPLOYEE PARKING AREA AND ARE NOT ALLOWED ON THE AIRFIELD AT ANY TIME.

LIST OF STATE STANDARDS AND DISTRICT DETAILS

701001-02 OFF-RD OPERATIONS, 2L, 2W MORE THAN 15' AWAY

701006-05 OFF-RD OPERATIONS, 2L, 2W MORE THAN 15' TO 24" FROM PAVEMENT EDGE

701901-05 TRAFFIC CONTROL DEVICES

701901-08 TYPE II TRAFFIC BARRICADE

DUPAGE AIRPORT
AUTHORITY

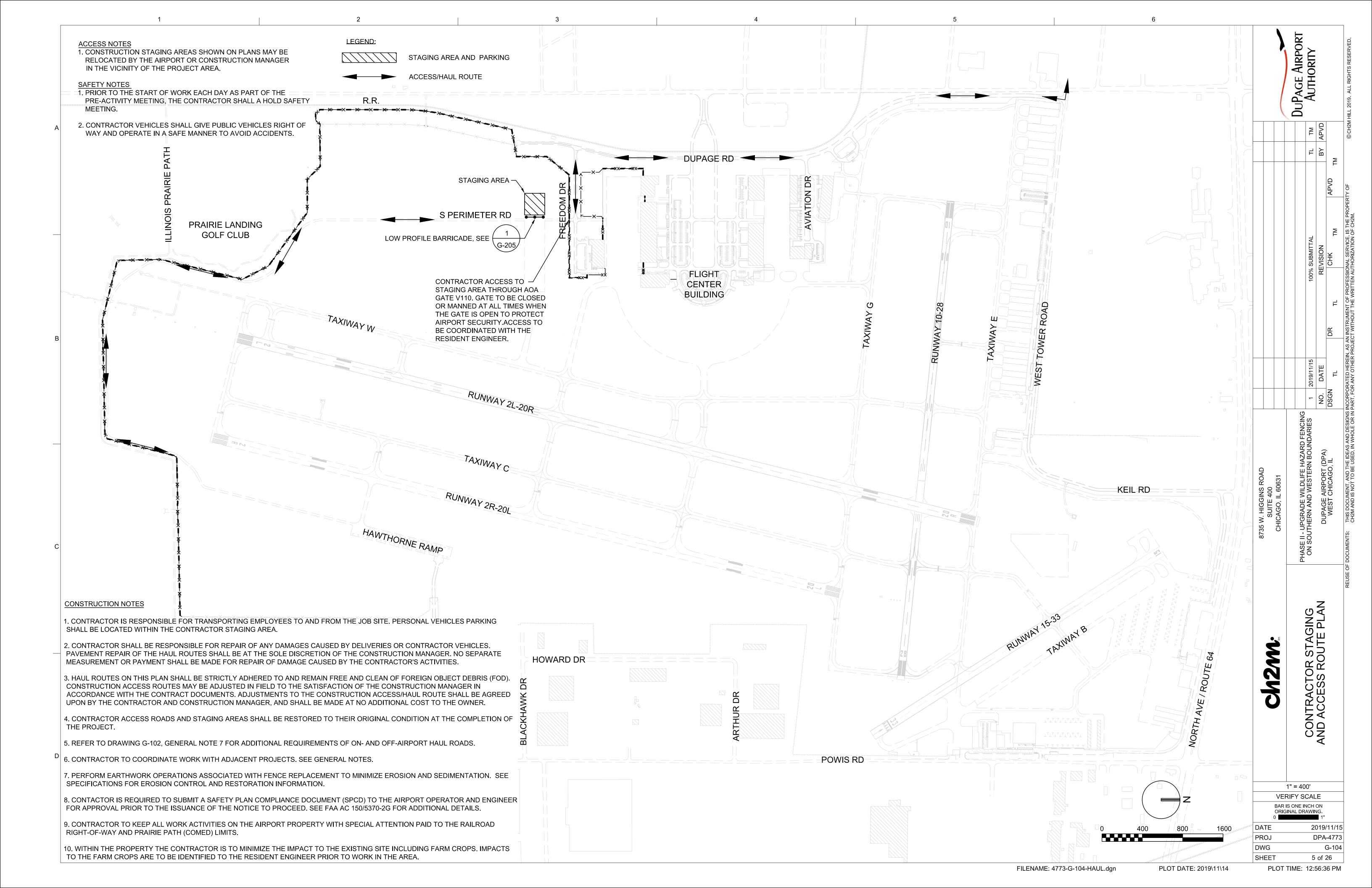
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1 2019/11/15 100% SUBMITTAL TL NO. DATE REVISION DSGN TL TL TL TL TL TL TL THE PROPERTY OF PROFESSIONAL SERVICE, IS THE PROPERTY OF PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M.	8735 W. HIGGINS ROAD SUITE 400								
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THERN AND WESTERN BOUNDARIES 1 DATE NO. DATE THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF CH2M. THIS DOCUMENT, AND THE IDEAS AND DESIGNS IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF CH2M.	PHASE II - UPGRADE WILDLIFE HAZARD FENCING								
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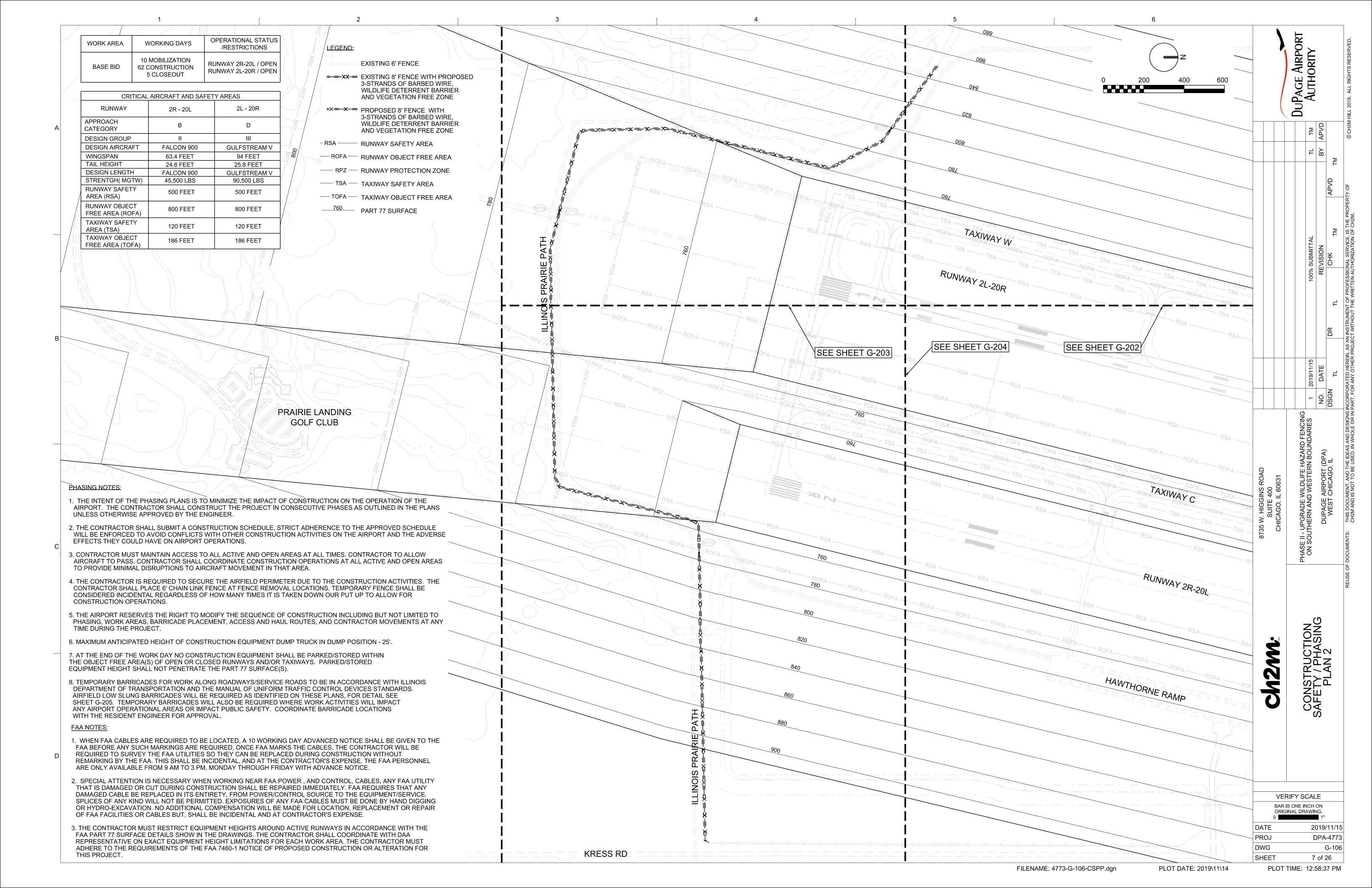
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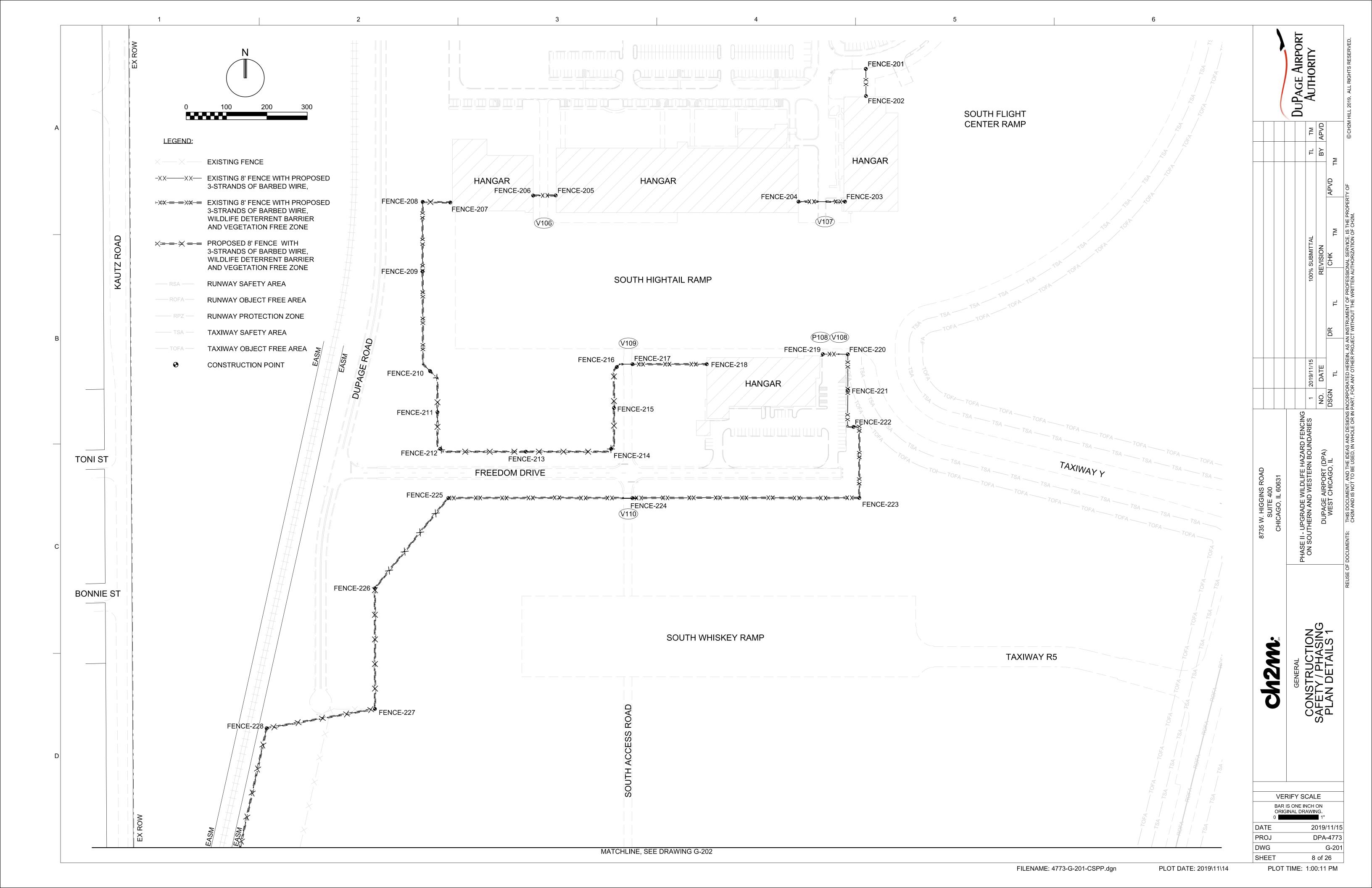
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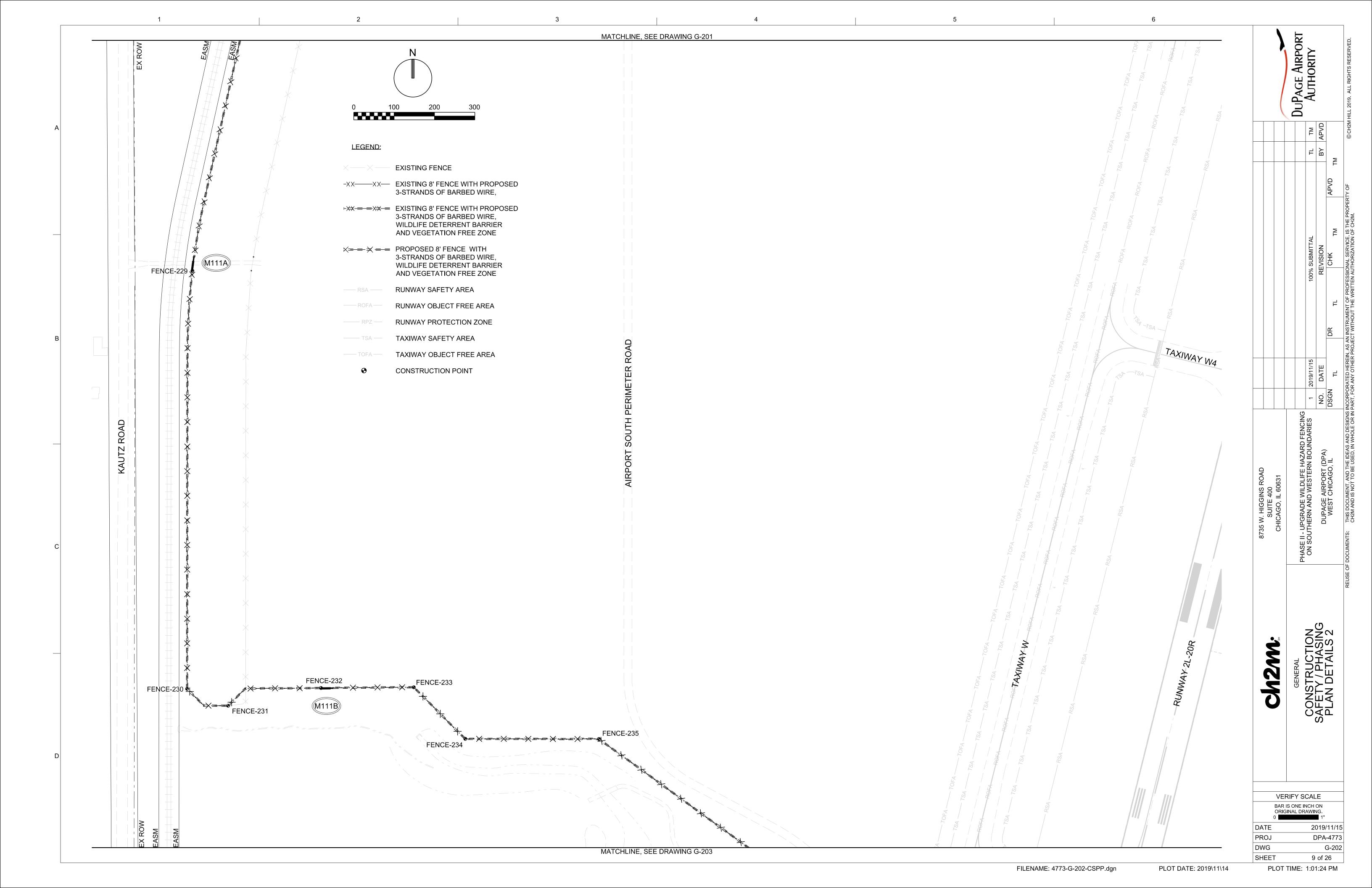


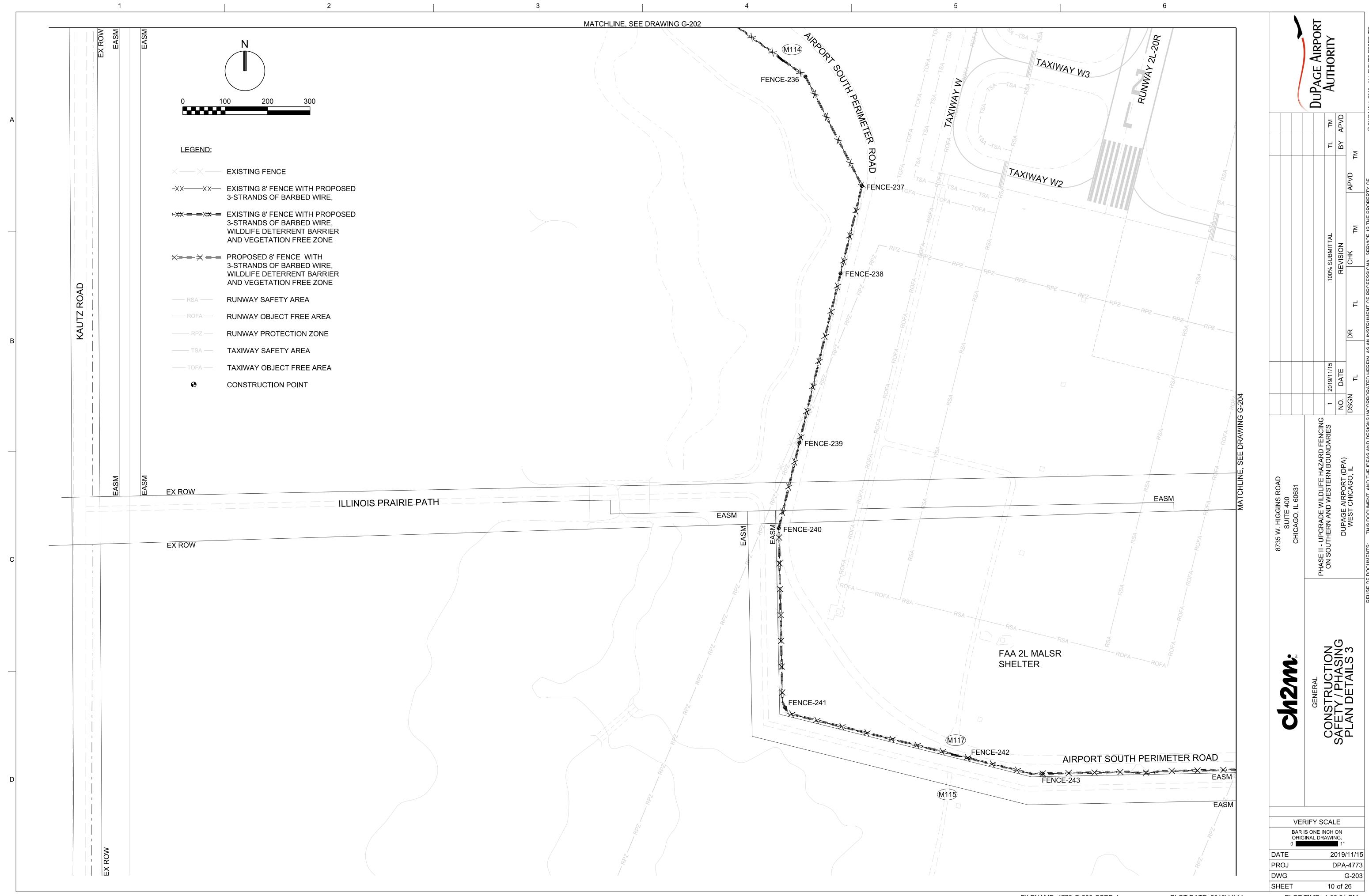


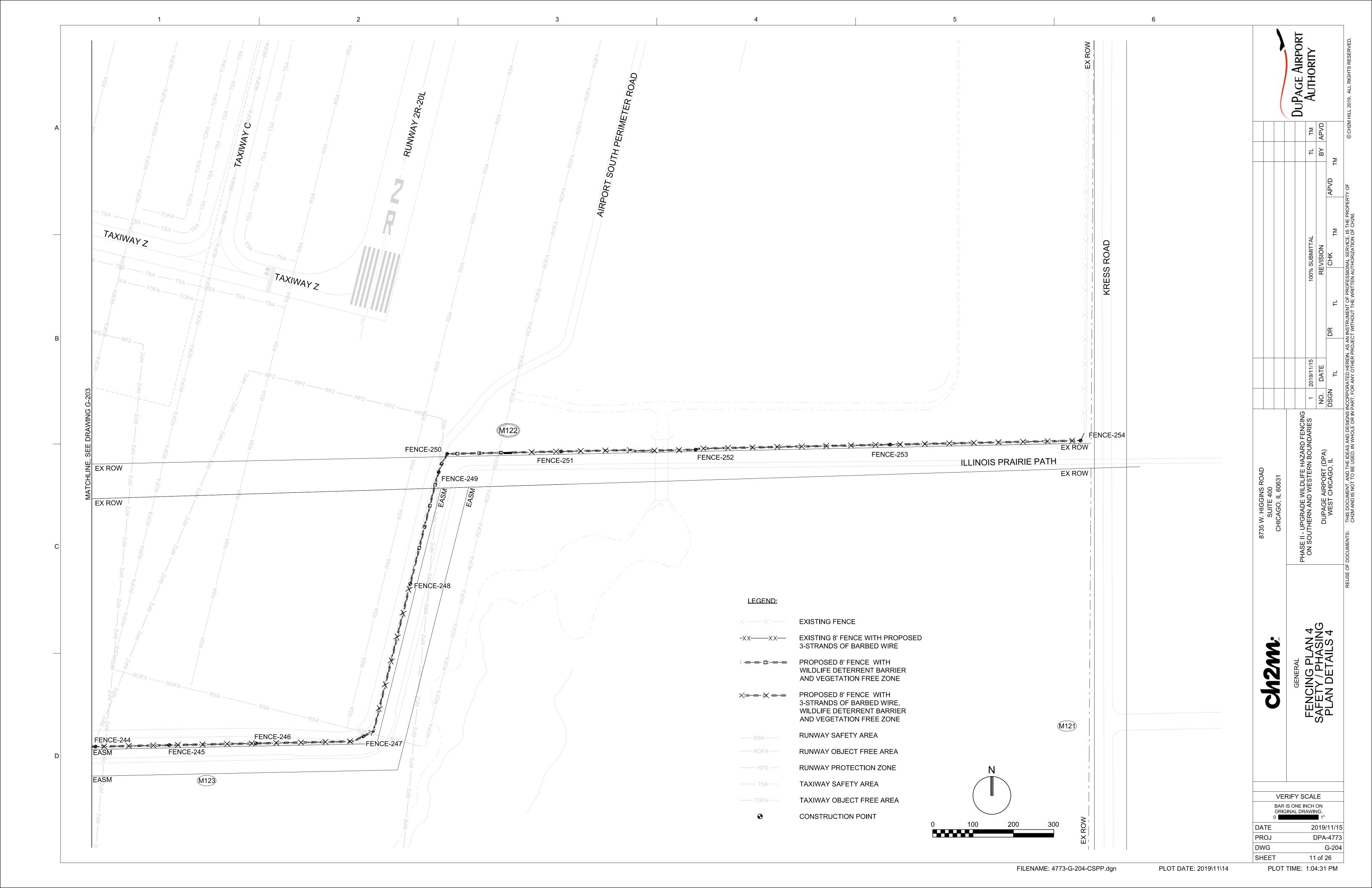
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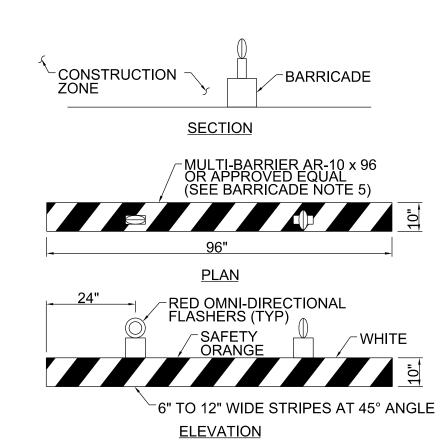


PHASING POINTS

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POINT#	LATITUDE	LONGITUDE	NORTHINGS	EASTINGS	ELEV.	CONST. EQUIP. HEIGHT	MAX. ELEV.	PAVEMENT STATUS	SHEET#
FENCE201	41° 54' 18.42"	88° 15' 20.99"	1,908,024.10	1,005,347.47	758.00	25.00	783.00	No Closure	G-201
FENCE202	41° 54' 18.42"	88° 15' 22.51"	1,908,024.10	1,005,232.33	759.00	25.00	784.00	No Closure	G-201
FENCE203	41° 54' 18.42"	88° 15' 20.99"	1,908,024.10	1,005,347.47	757.00	25.00	782.00	No Closure	G-201
FENCE204	41° 54' 18.42"	88° 15' 22.51"	1,908,024.10	1,005,232.33	755.00	25.00	780.00	No Closure	G-201
FENCE205	41° 54' 18.58"	88° 15' 30.47"	1,908,039.49	1,004,630.51	758.00	25.00	783.00	No Closure	G-201
FENCE206	41° 54' 18.58"	88° 15' 31.21"	1,908,039.15	1,004,574.73	757.00	25.00	782.00	No Closure	G-201
FENCE207	41° 54' 18.41"	88° 15' 33.92"	1,908,021.97	1,004,369.43	756.00	25.00	781.00	No Closure	G-201
FENCE208	41° 54' 18.43"	88° 15' 34.83"	1,908,023.63	1,004,301.00	750.00	25.00	775.00	No Closure	G-201
FENCE209	41° 54' 16.72"	88° 15' 34.84"	1,907,851.22	1,004,300.62	749.00	25.00	774.00	No Closure	G-201
FENCE210	41° 54' 14.28"	88° 15' 34.59"	1,907,604.15	1,004,319.42	751.00	25.00	776.00	No Closure	G-201
FENCE211	41° 54' 13.28"	88° 15' 34.35"	1,907,502.56	1,004,337.59	752.00	25.00	777.00	No Closure	G-201
FENCE212	41° 54' 12.38"	88° 15' 34.26"	1,907,411.67	1,004,344.66	753.00	25.00	778.00	No Closure	G-201
FENCE213	41° 54' 12.31"	88° 15' 31.46"	1,907,404.59	1,004,556.69	757.00	25.00	782.00	No Closure	G-201
FENCE214	41° 54' 12.38"	88° 15' 28.66"	1,907,411.65	1,004,767.90	756.00	25.00	781.00	No Closure	G-201
FENCE215	41° 54' 13.38"	88° 15' 28.57"	1,907,513.00	1,004,774.98	755.00	25.00	780.00	No Closure	G-201
FENCE216	41° 54' 14.38"	88° 15' 28.47"	1,907,614.34	1,004,782.05	755.00	25.00	780.00	No Closure	G-201
FENCE217	41° 54' 14.45"	88° 15' 27.96"	1,907,621.41	1,004,820.82	755.00	25.00	780.00	No Closure	G-201
FENCE218	41° 54' 14.45"	88° 15' 25.53"	1,907,621.41	1,005,004.94	758.00	25.00	783.00	No Closure	G-201
FENCE219	41° 54' 14.69"	88° 15' 21.72"	1,907,646.20	1,005,292.56	755.00	25.00	780.00	No Closure	G-201
FENCE220	41° 54' 14.68"	88° 15' 20.9"	1,907,645.88	1,005,354.44	755.00	25.00	780.00	No Closure	G-201
FENCE221	41° 54' 13.81"	88° 15' 20.9"	1,907,556.91	1,005,354.48	755.00	25.00	780.00	No Closure	G-201
FENCE222	41° 54' 12.91"	88° 15' 20.72"	1,907,466.04	1,005,368.69	753.00	25.00	778.00	No Closure	G-201
FENCE223	41° 54' 11.17"	88° 15' 20.53"	1,907,290.12	1,005,382.89	749.00	25.00	774.00	No Closure	G-201
FENCE224	41° 54' 11.17"	88° 15' 27.97"	1,907,289.74	1,004,820.72	756.00	25.00	781.00	No Closure	G-201
	41° 54' 11.18"	88° 15' 34"	1,907,289.80	1,004,364.44	754.00	25.00	779.00	No Closure	G-201
FENCE226	41° 54' 8.97"	88° 15' 36.41"	1,907,066.17	1,004,182.62	749.00	25.00	774.00	No Closure	G-201
FENCE227	41° 54' 6.02"	88° 15' 36.41"	1,906,767.27	1,004,182.65	757.00	25.00	782.00	No Closure	G-201
FENCE228	41° 54' 5.55"	88° 15' 39.96"	1,906,719.47	1,003,914.28	754.00	25.00	779.00	No Closure	G-201
FENCE229	41° 53' 56.98"	88° 15' 42.4"	1,905,852.49	1,003,730.26	759.00	25.00	784.00	No Closure	G-202
FENCE230	41° 53' 46.75"	88° 15' 42.59"	1,904,816.98	1,003,717.21	752.00	25.00	777.00	No Closure	G-202
FENCE231	41° 53' 46.34"	88° 15' 41.24"	1,904,775.36	1,003,818.84	752.00	25.00	777.00	No Closure	G-202
FENCE232	41° 53' 46.77"	88° 15' 38.2"	1,904,819.20	1,004,048.96	752.00	25.00	777.00	No Closure	G-202
FENCE233	41° 53' 46.79"	88° 15' 35.16"	1,904,820.88	1,004,278.97	749.00	25.00	774.00	No Closure	G-202
FENCE234	41° 53' 45.52"	88° 15' 33.47"	1,904,693.27	1,004,406.56	748.00	25.00	773.00	No Closure	G-202
FENCE235	41° 53' 45.51"	88° 15' 29.09"	1,904,692.68	1,004,737.76	748.00	25.00	773.00	No Closure	G-202
FENCE236	41° 53' 41.72"	88° 15' 22.12"	1,904,308.82	1,005,265.14	747.00	25.00	772.00	No Closure	G-203
FENCE237	41° 53' 39.17"	88° 15' 20.36"	1,904,050.74	1,005,398.44	745.00	25.00	770.00	No Closure	G-203
FENCE238	41° 53' 37.13"	88° 15' 21.03"	1,903,844.29	1,005,348.02	745.00	25.00	770.00	No Closure	G-203
FENCE239	41° 53' 33.19"	88° 15' 22.32"	1,903,445.37	1,005,251.00	747.00	25.00	772.00	No Closure	G-203
FENCE240	41° 53' 31.19"	88° 15' 22.97"	1,903,243.38	1,005,202.41	751.00	25.00	776.00	No Closure	G-203
FENCE241	41° 53' 27.01"	88° 15' 22.77"	1,902,820.08	1,005,217.61	755.00	25.00	780.00	No Closure	G-203
FENCE242	41° 53' 25.82"	88° 15' 17.02"	1,902,700.13	1,005,652.85	748.00	25.00	773.00	No Closure	G-203
FENCE243	41° 53' 25.47"	88° 15' 14.75"	1,902,664.42	1,005,824.32	748.00	25.00	773.00	No Closure	G-203
FENCE244		88° 15' 8.59"	1,902,673.94	1,006,290.28	745.00	25.00	770.00	No Closure	G-204
FENCE245		88° 15' 6.17"	1,902,677.69	1,006,473.28	747.00	25.00	772.00	No Closure	G-204
	41° 53' 25.63"	88° 15' 3.34"	1,902,682.04	1,006,687.17	747.00	25.00	772.00	No Closure	G-204
FENCE247	41° 53' 25.8"	88° 14' 59.82"	1,902,699.49	1,006,953.79	745.00	25.00	770.00	No Closure	G-204
FENCE248		88° 14' 58.27"	1,903,077.22	1,007,070.38	745.00	25.00	770.00	No Closure	G-204
	41° 53' 32.27"	88° 14' 57.34"	1,903,354.03	1,007,140.63	745.00	25.00	770.00	No Closure	G-204
FENCE250	41° 53' 32.71"	88° 14' 57.06"	1,903,399.23	1,007,161.73	746.00	25.00	771.00	No Closure	G-204
FENCE251	41° 53' 32.77"	88° 14' 53.32"	1,903,405.17	1,007,444.11	746.00	25.00	771.00	No Closure	G-204
FENCE252		88° 14' 48.92"	1,903,409.54	1,007,777.23	745.00	25.00	770.00	No Closure	G-204
	41° 53' 32.93"	88° 14' 42.55"	1,903,422.23	1,008,259.15	746.00	25.00	771.00	No Closure	G-204
	41° 53' 33.02"	88° 14' 36.3"	1,903,432.13	1,008,731.46	746.00	25.00	771.00	No Closure	G-204
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NOTES:

- 1. ALL AIRFIELD PAVEMENT CLOSURES SHALL BE TEMPORARY CLOSURES AS DESCRIBED IN FAA AC 150/5370-2G, "OPERATIONAL SAFETY ON AIRPORTS DURING CONSTRUCTION". THE CONTRACTOR SHALL COMPLY WITH ALL THE REQUIREMENTS SET FORTH IN THE CONTRACT DOCUMENTS REGARDING AIRFIELD CLOSURES, SAFETY, AND SECURITY.
- 2. PRIOR TO REOPENING CLOSED AIRFIELD PAVEMENTS, THE ENTIRE SAFETY AREA MUST MEET FAA CRITERIA UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. PAVEMENT CLOSURES ARE NOT ANTICIPATED ON THIS PROJECT. LOW-PROFILE BARRICADES BEING UTILIZED TO DELINEATE PAVEMENT EDGE ADJACENT TO CONTRACTOR WORKING AREA.
- 3. FLASHERS TO BE BATTERY OPERATED AND/OR SOLAR POWERED. LENS TO BE RED AND BE ABLE TO ROTATE 90°.
- 4. FACING OF LOW-PROFILE BARRICADE TO BE COVERED WITH REFLECTIVE MATERIAL.
- 5. LOW-PROFILE BARRICADES TO BE PLACED WITH A MAXIMUM 8'-0" GAP BETWEEN BARRICADES ALONG OPERATIONAL PAVEMENT, ADJACENT TO CONSTRUCTION, AS DIRECTED BY THE PROJECT MANAGER. ONE ORANGE DELINEATOR CONE SHALL BE INSTALLED AT THE MIDPOINT BETWEEN BARRICADES.
- 6. FLASHERS SHALL BE SECURED TO THE BARRICADES, PER MANUFACTURER'S INSTRUCTIONS. ALTERNATE FLASHER LENSES SO THAT EVERY OTHER LENS IS ROTATED 90°.
- 7. LOW -PROFILE BARRICADES SHALL BE OF LOW MASS, EASILY COLLAPSIBLE UPON CONTACT WITH AN AIRCRAFT OR ANY OF IT'S COMPONENTS, AND WEIGHTED OR STURDILY ATTACHED TO THE SURFACE. IF AFFIXED TO THE SURFACE, THE BARRICADE MUST BE FRANGIBLE AT GRADE LEVEL OR AS LOW AS POSSIBLE, NOT TO EXCEED 3 INCHES ABOVE THE GROUND.
- 8. THE CONTRACTOR SHALL PROVIDE BARRICADES AND DELINEATOR CONES WITH RED FLASHING BATTERY OPERATED LIGHTS AS SHOWN IN GOOD WORKING ORDER. CONTRACTOR SHALL MAINTAIN ALL BARRICADES AND ENSURE THEY ARE IN WORKING ORDER TWENTY-FOUR (24) HOURS A DAY, FOR THE DURATION OF THE PROJECT. THE BARRICADE LIGHTING SHALL BE CHECKED NIGHTLY BY THE CONTRACTOR.
- 9. THE LIGHTS SHALL BE OPERATIONAL AT EACH BARRICADE LOCATION AT ALL TIMES. ANY LIGHTS FOUND NON-OPERATIONAL SHALL BE REPAIRED IMMEDIATELY WITH EMERGENCY CONTACT NUMBER 24/7.
- 10. ALL BARRICADES SHALL BE CHECKED VISUALLY FOR SIGNS OF WEAR AND TEAR ON A DAILY BASIS AND SHALL BE REPAINTED OR REPLACED WHEN DEEMED APPROPRIATE BY THE RESIDENT ENGINEER. THE CONDITIONS OF LIGHTING UNITS SHALL BE CHECKED DAILY. ALL LIGHT FIXTURES SHALL BE VERIFIED IN OPERATING CONDITION AND GOOD WORKING ORDER BY THE CONTRACTOR ON A DAILY BASIS, BEFORE THE CONTRACTOR CEASES OPERATIONS FOR THE DAY.
- 11. LOW PROFILE BARRICADES TO BE LOCATED AS IDENTIFIED ON SHEET G-105 AND AS IDENTIFIED IN PHASING NOTES.



1 LOW-PROFILE BARRICADE DETAIL

CONSTRUCTION SAFETY / PHASING PLAN DETAILS 5 BY35 W. HIGGINS ROAD SUITE 400 CHICAGO, IL 60631
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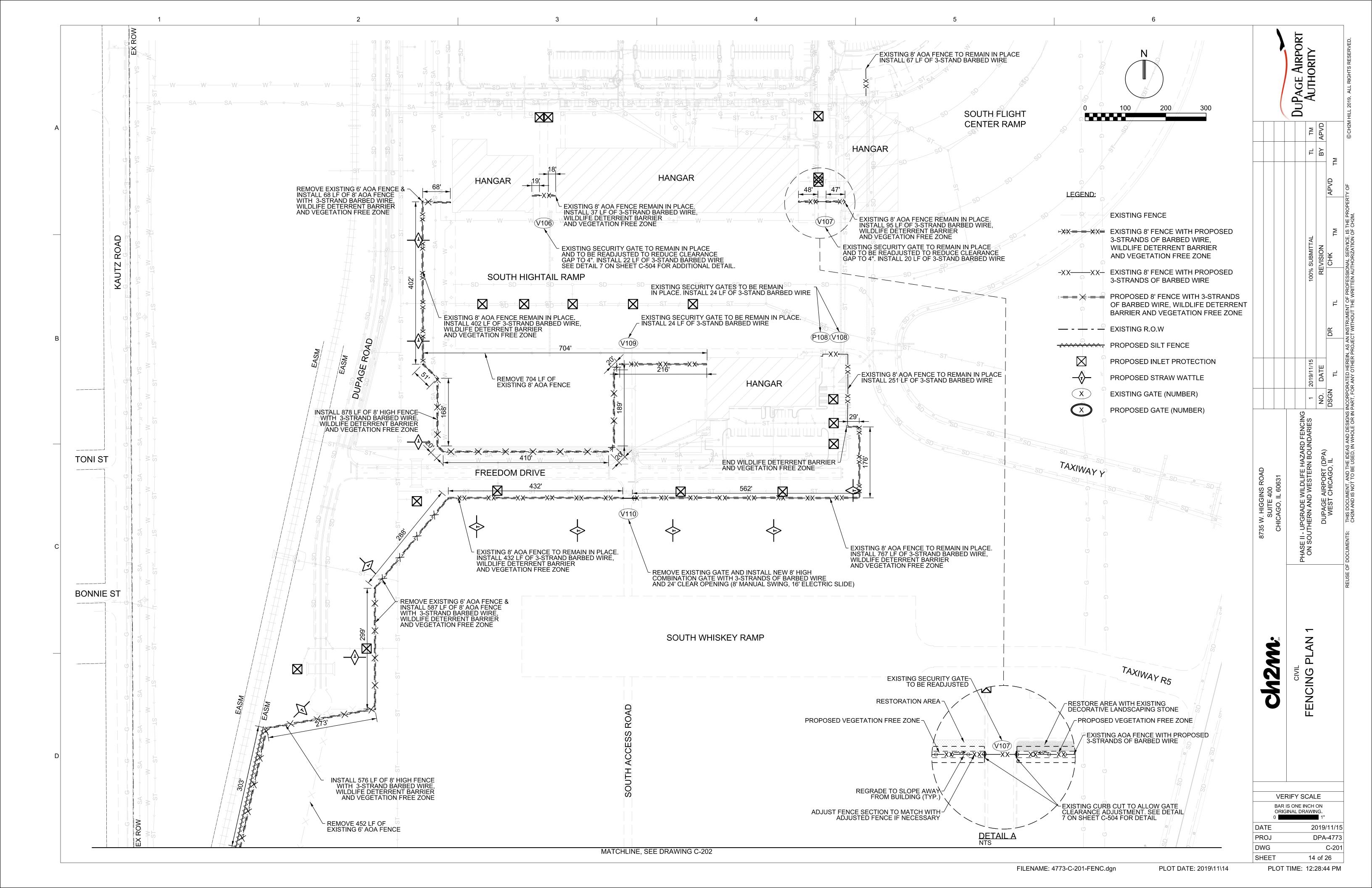
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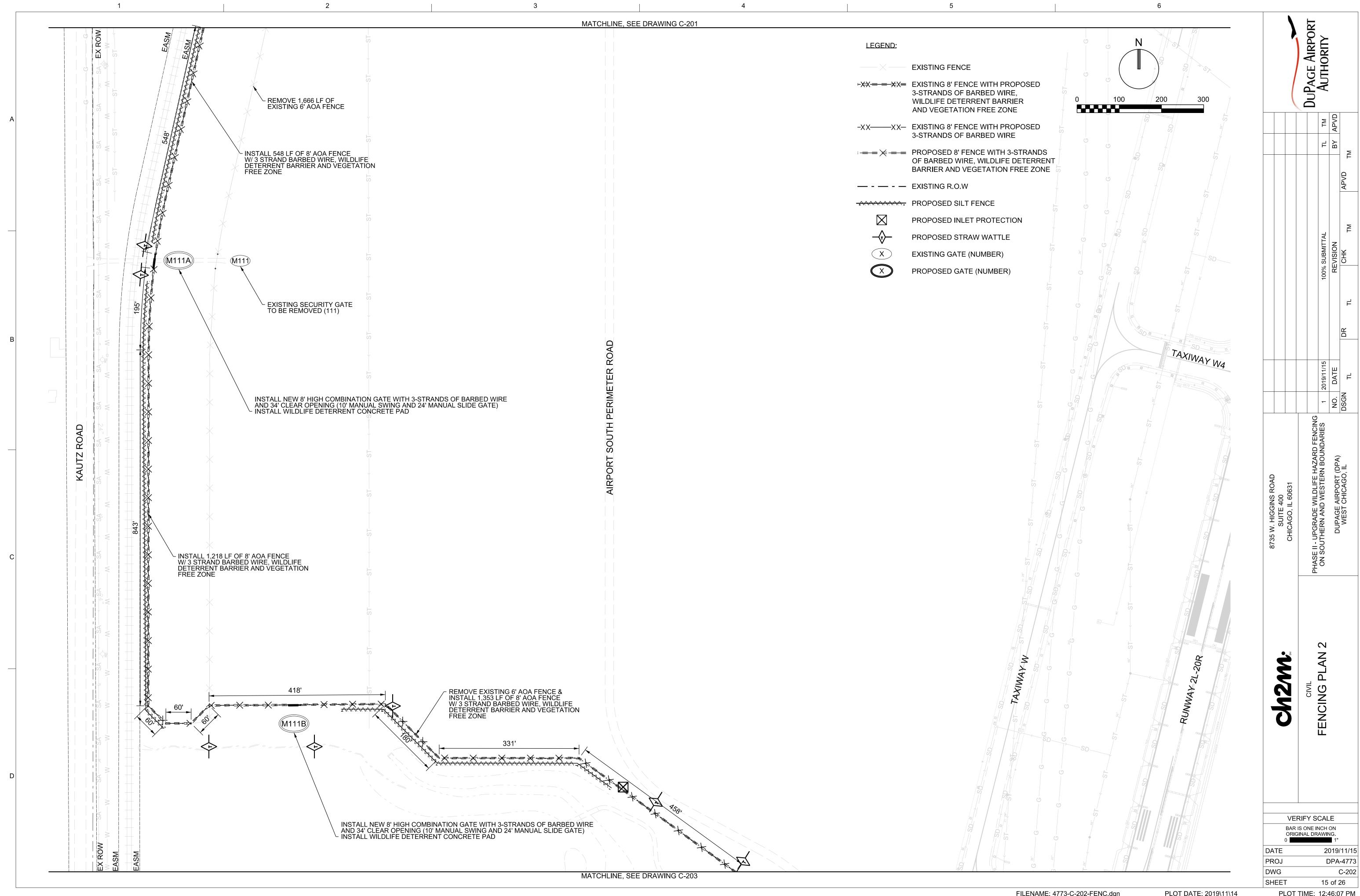
- 1. PROPOSED WORK WILL REQUIRE THE OPENING OF THE AOA FENCE LINE. THE CONTRACTOR WILL BE REQUIRED AT HIS EXPENSE TO RESTORE THE INTEGRITY OF THE AOA FENCE LINE AT THE COMPLETION OF DAILY WORK ACTIVITIES TO THE SATISFACTION OF THE RESIDENT ENGINEER. TEMPORARY FENCE MAY BE REQUIRED AND CONSIDERED A TEMPORARY SECURITY MEASURE FOR THE AOA, THE COST OF THE TEMPORARY FENCE WILL BE INCIDENTAL.
- 2. EXISTING 6' SECURITY FENCING, POSTS, AND FOUNDATIONS SHALL BE REMOVED ALONG THE LOCATION OF THE PROPOSED 8' FENCE WITH 3-STRANDS OF BARBED WIRE, WILDLIFE DETERRENT FENCE BARRIER AND 4' VEGETATION FREE ZONE. EXISTING 6' FABRIC MAY BE REUSED AS WILDLIFE FENCE FABRIC. SEE SHEET C-503, DETAIL 3.
- 3. FOR WILDLIFE DETERRENT CONCRETE PAD SEE SHEET C-502, DETAIL 5.
- 4. THE CONTRACTOR SHALL COMPLETE A THOROUGH UTILITY LOCATE PRIOR TO COMMENCING WITH CONSTRUCTION. THE CONTRACTOR SHALL IDENTIFY TYPE, HORIZONTAL LAYOUT, AND VERTICAL DEPTH OF ALL UTILITIES PRIOR TO COMMENCING CONSTRUCTION. ANY UTILITY LINE OR STRUCTURE TO REMAIN THAT IS DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, AT NO ADDITIONAL COST TO THE OWNER.
- 5. PRIOR TO FABRICATION AND CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY EXISTING GATE LENGTH, TYPE AND LOCATION. PROPOSED GATE LOCATIONS TO BE COORDINATED WITH RESIDENT ENGINEER.
- 6. ALL SIGNAGE MOUNTED ON EXISTING FENCING AND GATES SHALL BE SALVAGED AND PLACED IN THE SAME LOCATION ON THE NEW FENCE LINE. SALVAGING OF EXISTING SIGNAGE AND INSTALLATION ON NEW FENCING IS INCIDENTAL TO ITEM AR162508.
- 7. ALL EXISTING CATCH BASINS ALONG FENCE ALIGNMENT ARE TO BE PROTECTED. ANY DAMAGE BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 8. WORK AREA ASSOCIATED WITH FENCING CONSTRUCTION WILL BE RESTORED TO THE SATISFACTION OF THE RESIDENT ENGINEER. RESTORATION MAY REQUIRE GRADING, TOPSOIL, SEEDING AND REMOVAL OF EXISTING GRINDINGS WITH COSTS INCIDENTAL TO THE CONTRACT.
- 9. 2' OF CA-6 SHALL BE PLACED ON EITHER SIDE OF THE PROPOSED FENCE LINE. THE CA-6 SHALL BE 6" DEEP. SEE SHEET C-503. PRIOR TO PLACEMENT OF CA-6 THIS AREA IS TO BE EXCAVATED TO A DEPTH OF 6" FOR THE 4" TOTAL WIDTH. THIS EXCAVATION TO BE PAID UNDER ITEM AR152460 TOPSOIL STRIPPING. ALL OTHER TOPSOIL REMOVAL IS INCIDENTAL TO THE ASSOCIATED PAY ITEM.
- 10. CONTRACTOR SHALL INSTALL NEW GATE TO PROVIDE A COMPLETE WORKING UNIT. THE GATE WORK SHALL INCLUDE THE GATE AND ALL OTHER ELEMENTS REQUIRED FOR A FULLY FUNCTIONAL GATE. THE EXISTING POWER SOURCE AND GATE OPERATOR ARE TO BE USED FOR THE NEW GATE.
- 11. NEW GATES TO BE INSTALLED WITH 4" CLEAR ABOVE GRADE. EXISTING GATES TO BE ADJUSTED TO 4" CLEAR ABOVE GRADE. REQUIRED CURB CUTS AND GRADE ADJUSTMENTS OUTSIDE THE PAVEMENT AREA TO BE INCIDENTAL TO THE COST OF THE GATE ADJUSTMENT.
- 12. SEE GENERAL NOTES, SHEET G-102, FOR ADDITIONAL REQUIREMENTS.
- 13. CONTRACTOR TO REMOVE, STORE AND RE AFFIX GATE DESIGNATION PLACARDS AND FENCING SIGNAGE TO NEW FENCING.
- 14. ALL EXISTING SECURITY GATES WITHIN PROJECT LIMITS TO HAVE 3 STRAND BARBED WIRE ADDED TO FENCE. 3 STRAND BARBED WIRE FOR EXISTING GATES WILL BE PAID PER LINEAR FOOT LIKE THE 3 STRAND BARBED WIRE TO BE ADDED TO EXISTING FENCE. FOR NEW GATES THE BARBED WIRE IS INCLUDED IN THE GATE PRICE.
- 15. CONTRACTOR TO FIELD VERIFY EXISTING GATE DIMENSIONS PRIOR TO COMPLETION AND SUBMISSION OF SHOP DRAWINGS. ALL GATES WILL BE PAID UNDER THE LINE ITEMS IDENTIFIED IN THE GATE SCHEDULE.

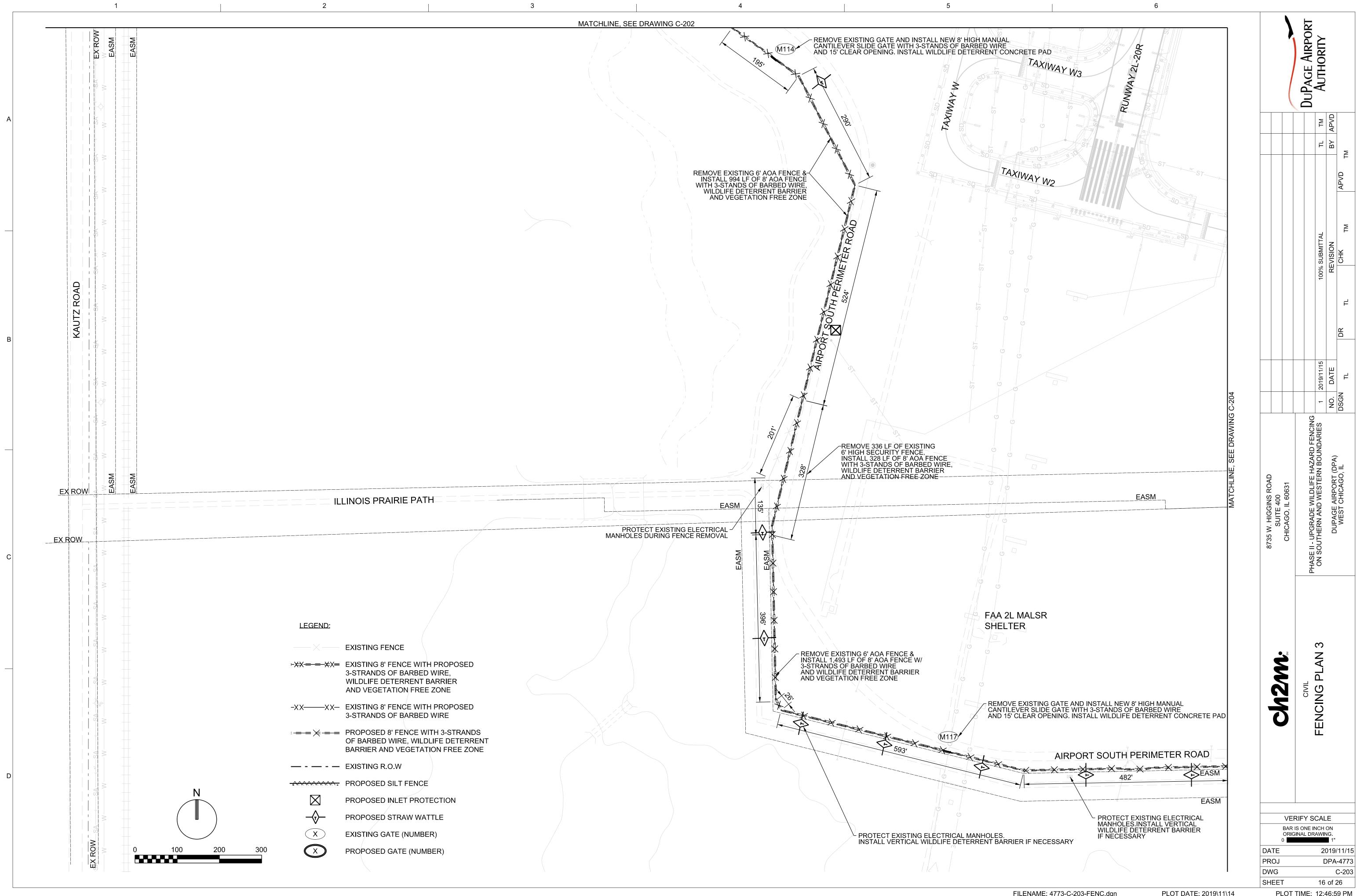
			GATE SCHEDULE		
XISTING GATE	PROPOSED GATE				
DESIGNATION	DESIGNATION	PROPOSED TYPE	CLEAR OPENING	PAY ITEM(S)	WORK DESCRIPTION
V106	V106	EXISTING (COMBINATION)	10-FT (SWING) 12-FT (SLIDE)	AR162948	REMAIN IN PLACE, ADJUST
V107	V107	(CANTILEVER SLIDE)	20-FT (SLIDE)	AR162948	REMAIN IN PLACE, ADJUST
P108	P108	EXISTING PED	4-FT	-	REMAIN IN PLACE
V108	V108	EXISTING (CANTILEVER SLIDE)	12-FT (SLIDE)	-	REMAIN IN PLACE
V109	V109	EXISTING (COMBINATION)	10-FT (SWING) 14-FT (SLIDE)	-	REMAIN IN PLACE
V110	V110	EXISTING (COMBINATION)	8-FT (SWING) 16-FT (SLIDE)	AR162908, AR162910, AR162608, AR162716	REMOVE AND REPLACE
M111	M111A	EXISTING (COMBINATION-MANUAL)	10-FT (SWING) 24-FT (SLIDE)	AR162910, AR162920, AR162610, AR162224	REMOVE AND REPLACE
_	M111B	PROPOSED (COMBINATION-MANUAL)	10-FT (SWING) 24-FT (SLIDE)	AR162610, AR162224	NEW INSTALL
M112	M112	EXISTING	EXISTING	-	REMAIN IN PLACE
M113	M113	EXISTING	EXISTING	-	REMAIN IN PLACE
M114	M114	EXISTING (CANTILEVER SLIDE-MANUAL)	16-FT (SLIDE)	AR162920, AR162216	REMOVE AND REPLACE
M115	M115	EXISTING	EXISTING	-	REMAIN IN PLACE
M117	M117	EXISTING (CANTILEVER SLIDE-MANUAL)	16-FT (SLIDE)	AR162920, AR162216	REMOVE AND REPLACE
M119	M119	EXISTING	EXISTING	-	REMAIN IN PLACE
M121	M121	EXISTING	EXISTING	-	REMAIN IN PLACE
-	M122	PROPOSED (CANTILEVER SLIDE-MANUAL)	16-FT (SLIDE)	AR162216	NEW INSTALL
M123	M123	EXISTING	EXISTING	-	REMAIN IN PLACE

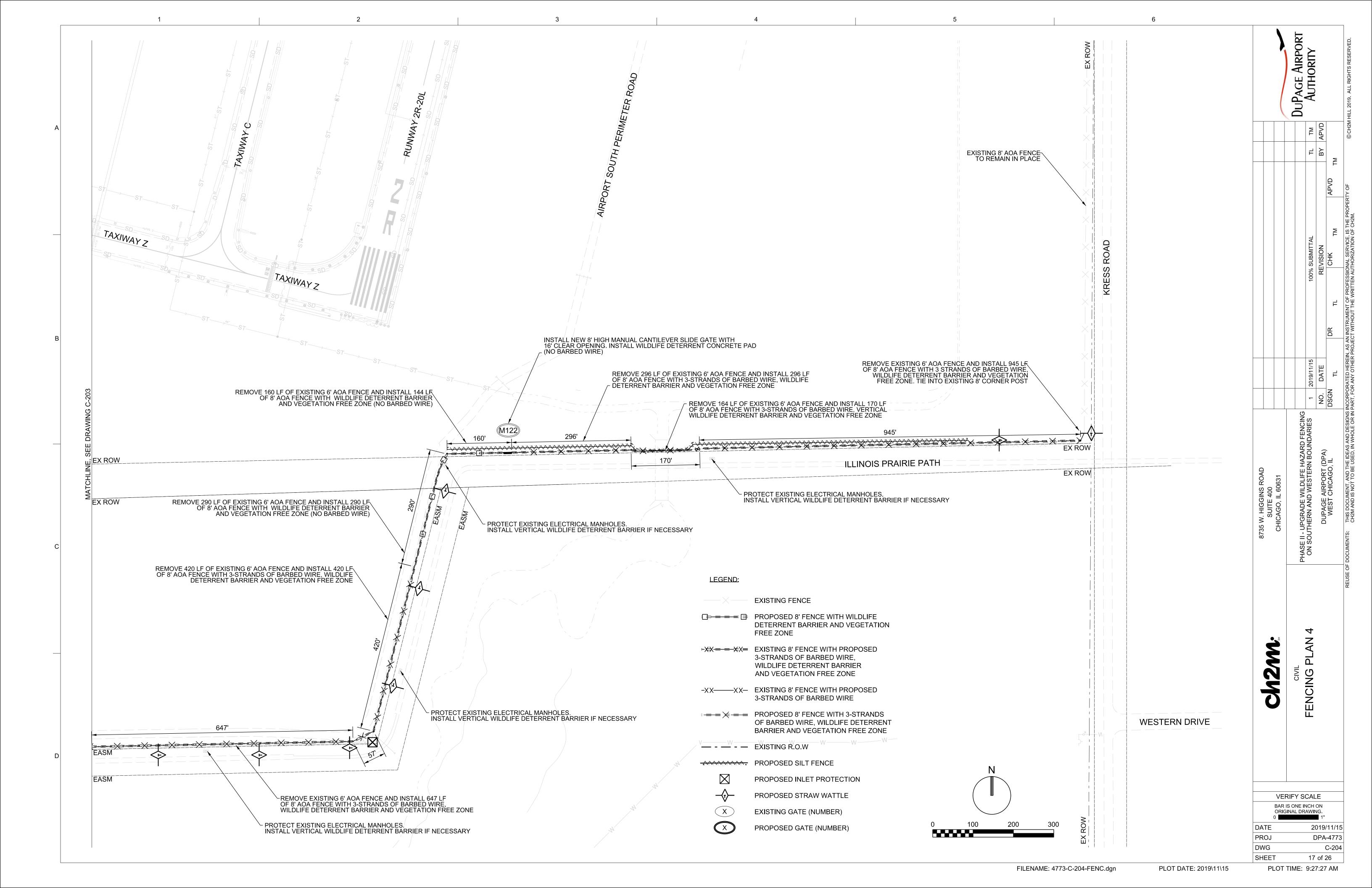
NOTE: SEE SHEETS C-201 THRU C-204 FOR PLAN VIEW DETAILS.

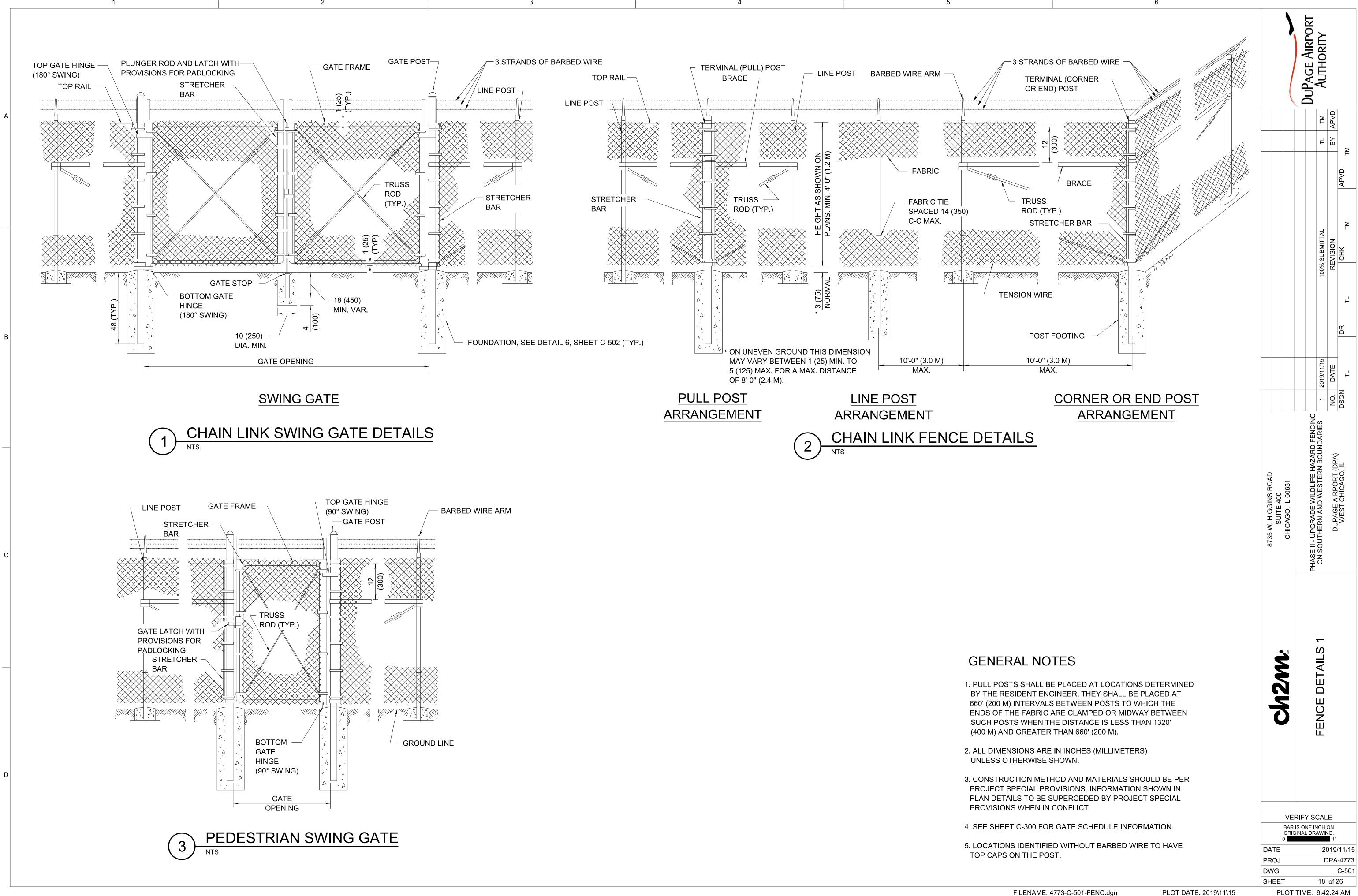
		APVD	CHK	DR	DSGN	WEST CHICAGO, IL	
APVD	ВУ		REVISION	RE	NO. DATE	DUPAGE AIRPORT (DPA)	AND GATE SCHEDULE
MT	TL		100% SUBMITTAL	100%	1 2019/11/15	ON SOUTHERN AND WESTERN BOUNDA	FENCING NOTES
						PHASE II - UPGRADE WILDLIFE HAZARD FENCING	
						CHICAGO, IL 60631	
						8735 W. HIGGINS ROAD SUITE 400	Choose.

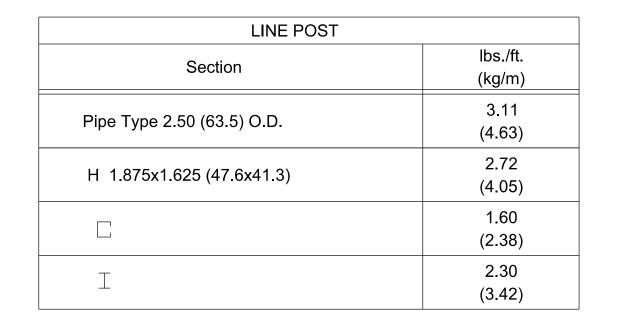


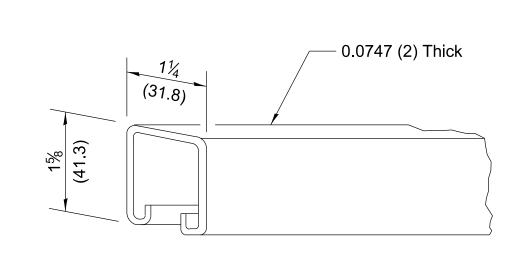






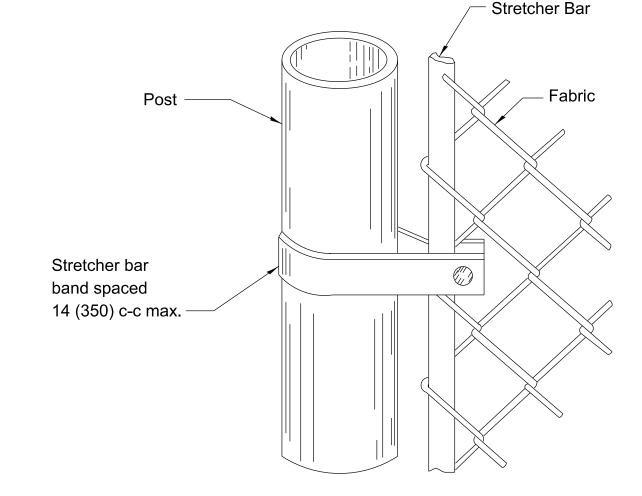


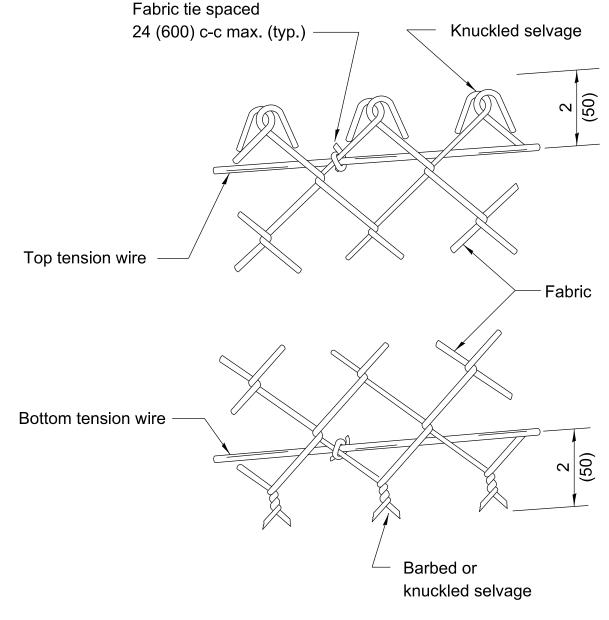




\ROLL FORMED

SECTION OF BRACE





2 METHOD OF FASTENING STRETCHER BAR TO POST

METHOD OF TYING FABRIC TO TENSION WIRES

Section	lbs./ft. (kg/m)	
Pipe 3.0 (76.2) O.D.	3.65 (5.43)	
Roll Formed 3½x3½ (89.0x89.0)	See detail	
Sq. Tubing 2½x2½ (63.5x63.5)	4.32 (6.43)	0.1345 (3.5) THICK -
		WIRE FABRIC TO E

HORIZONTAL BRACES

Section

Pipe Type A 1.66 (42.2) O.D.

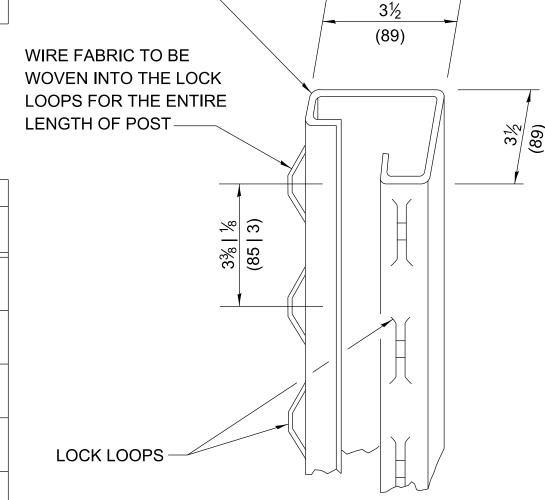
Pipe Type B 1.66 (42.2) O.D.

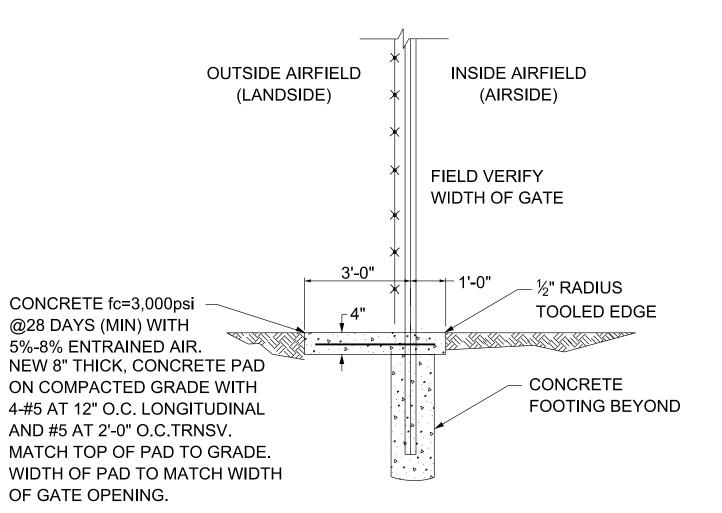
Pipe Type C 1.66 (42.2) O.D.

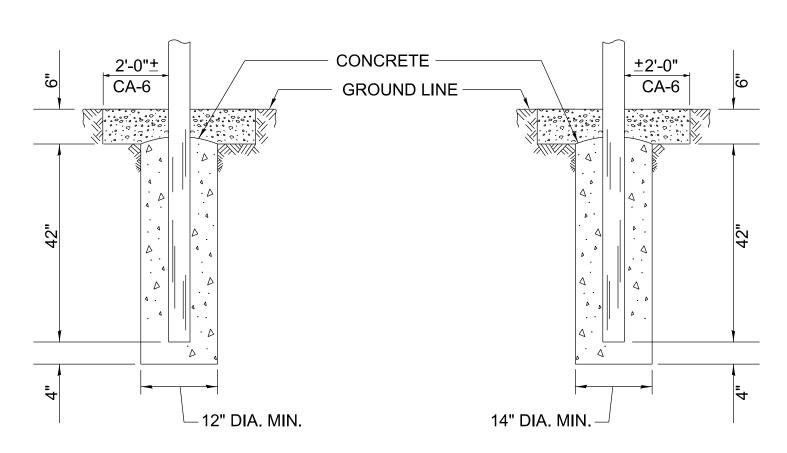
Roll Formed 1%x1¼ (41.3x31.8)

H 1.31x1.5 (33.3x38.1)

TERMINAL POST







NOTE: 1. CONTRACTOR SHALL GRADE AND COMPACT ALL EXISTING BASES TO THE SATISFACTION OF THE ENGINEER PRIOR TO CONCRETE

PLACEMENET. (INCIDENTAL TO THE CONTRACT).

FOOTING FOR FOOTING FOR GATE LINE POST & TERMINAL POST

> 1. TOP OF FOOTING SHALL HAVE NEAT EDGES. OVERFLOW OR MUSHROOMED TOPS WILL BE REJECTED.

6 FOOTING DETAILS

GATE FRAMES - SEE ITEM 162 IN PROJECT SPECIAL PROVISIONS FOR DETAILS

4 ROLL FORMED SECTION OF TERMINAL AND GATE POST

	GATE	POSTS *				
Gate Onen	ing * ft. (m)	Pipe		Sq. Tı	ubing	
Single	Double	Size (O.D.)	lbs./ft. (kg/m)	Size	lbs./ft. (kg/m)	
Up to 6 (1.8)	Up to 12 (3.7)	3.0 (76.2)	4.64 (6.91)	3 (76.2)	5.78 (8.60)	
Over 6 (1.8) to 12 (3.7)	Over 12 (3.7) to 25 (7.6)	4.0 (101.6)	6.56 (9.77)	3 (76.2)	8.80 (13.10)	

lbs./ft.

(kg/m)

2.27

(3.38)

1.83

(2.72)

1.82

(2.71)

2.25

(3.35)

See detail

* The $3\frac{1}{2}$ x $3\frac{1}{2}$ (89.0 x 89.0) roll formed section as detailed may be used as gate posts for single gate up to 6' (1.8 m) and double gate up to 12' (3.6 m).

5 TYPICAL WILDLIFE DETERRENT CONCRETE PAD AT GATES

ES

1. CONSTRUCTION METHOD AND MATERIALS SHOULD BE PER PROJECT SPECIAL PROVISIONS. INFORMATION SHOWN IN PLAN DETAILS TO BE SUPERCEDED BY PROJECT SPECIAL PROVISIONS WHEN IN CONFLICT.

2. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

GENERAL	NOTE

BAR IS ONE INCH ON ORIGINAL DRAWING. 2019/11/15 PROJ DPA-4773 C-502

VERIFY SCALE

ch2m.

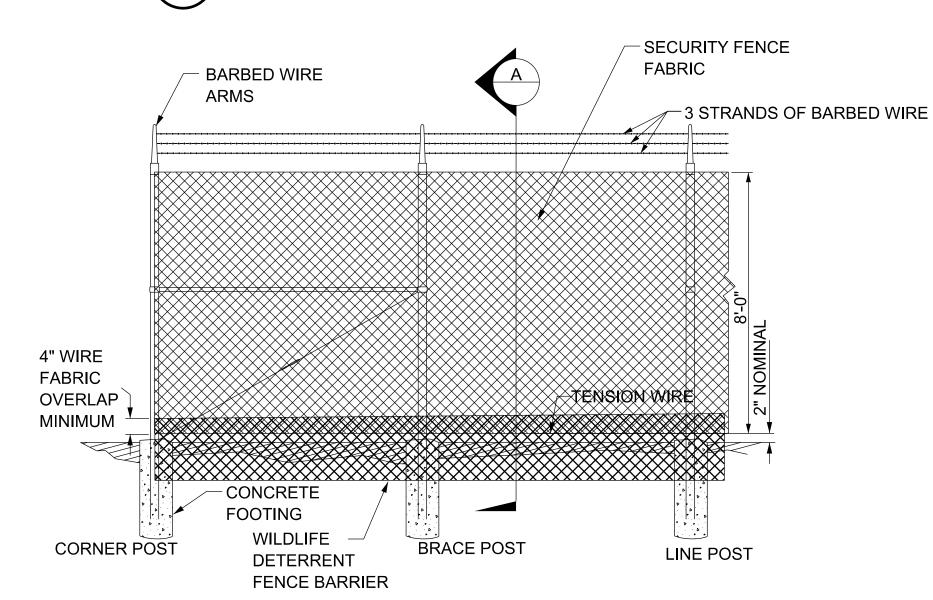
DUPAGE AIRPORT AUTHORITY

TM TM ERVICE, IS THE ZATION OF CH2

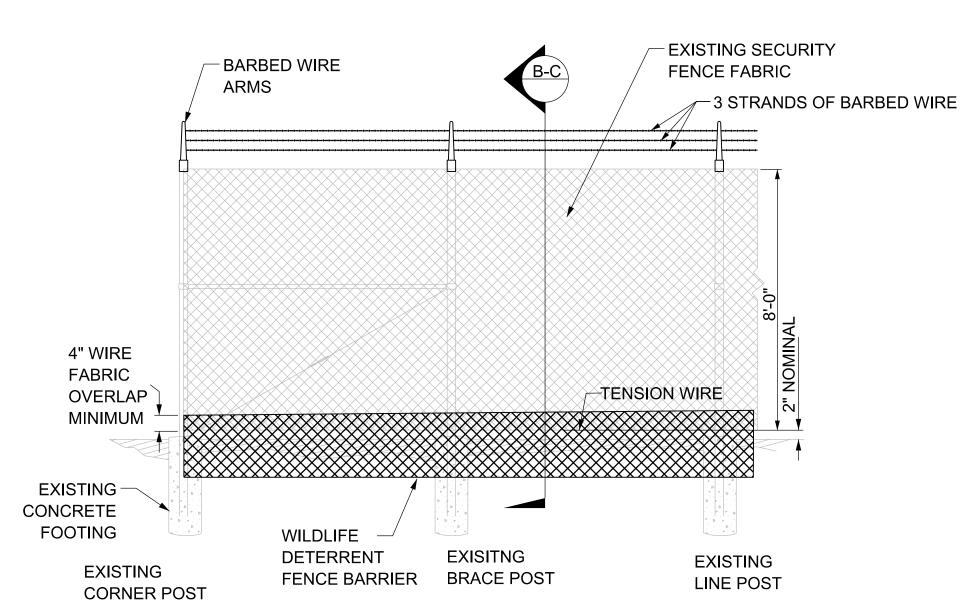
WHEN FENCE LINE HAS A CHANGE IN DIRECTION OF 15° OR MORE, A TERMINAL POST SHALL BE PLACED AS SHOWN ABOVE.

WHERE ANGLE IS LESS THAN 15° AND EXISTING CONDITIONS REQUIRE A TERMINAL POST, THEY SHALL BE PLACED AS DIRECTED BY THE RESIDENT ENGINEER.

1 INSTALLATION AT CORNERS



PROPOSED 8-FT FENCE DETAIL WITH WILDLIFE DETERRENT BARRIER AND 3-STAND BARBED WIRE

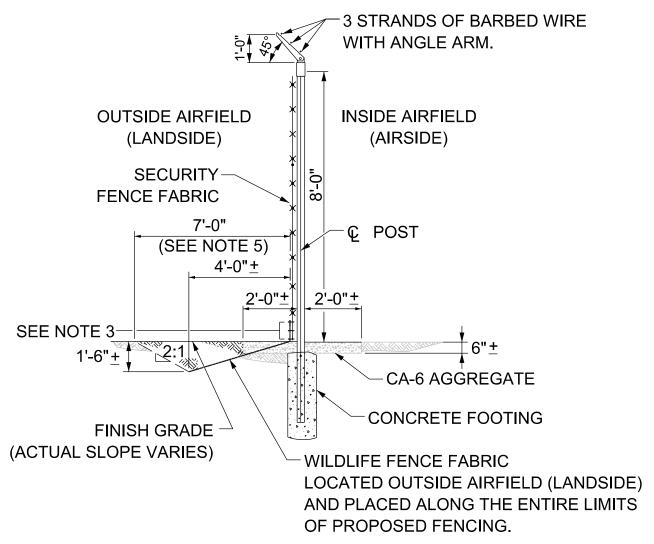


B EXISTING 8-FT FENCE DETAIL
WITH WILDLIFE DETERRENT BARRIER AND 3-STAND BARBED WIRE

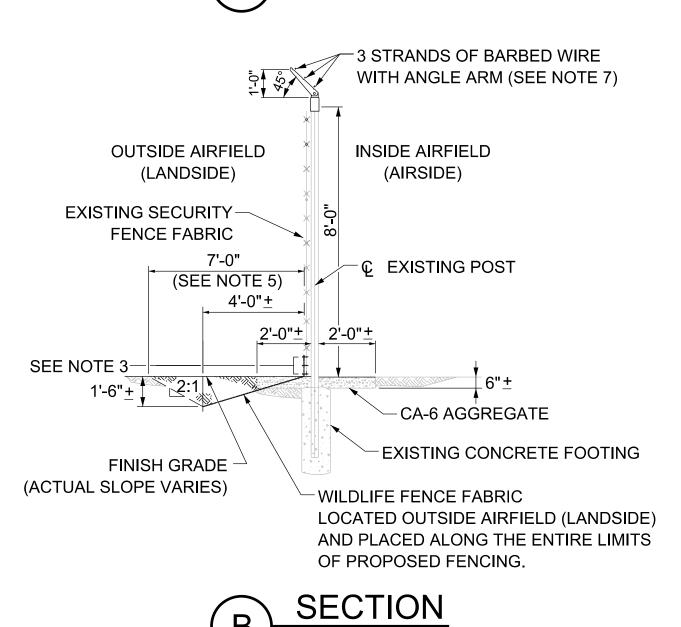
GENERAL NOTES

1. CONSTRUCTION METHOD AND MATERIALS SHOULD BE PER PROJECT SPECIAL PROVISIONS. INFORMATION SHOWN IN PLAN DETAILS TO BE SUPERCEDED BY PROJECT SPECIAL PROVISIONS WHEN IN CONFLICT.

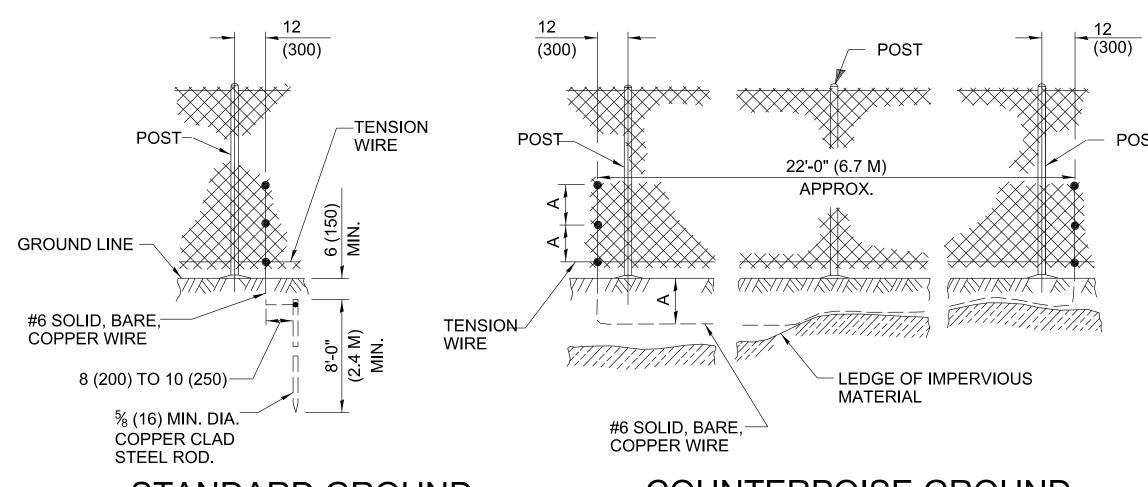
2. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.







3) TYPICAL FENCE DETAILS AND SECTIONS



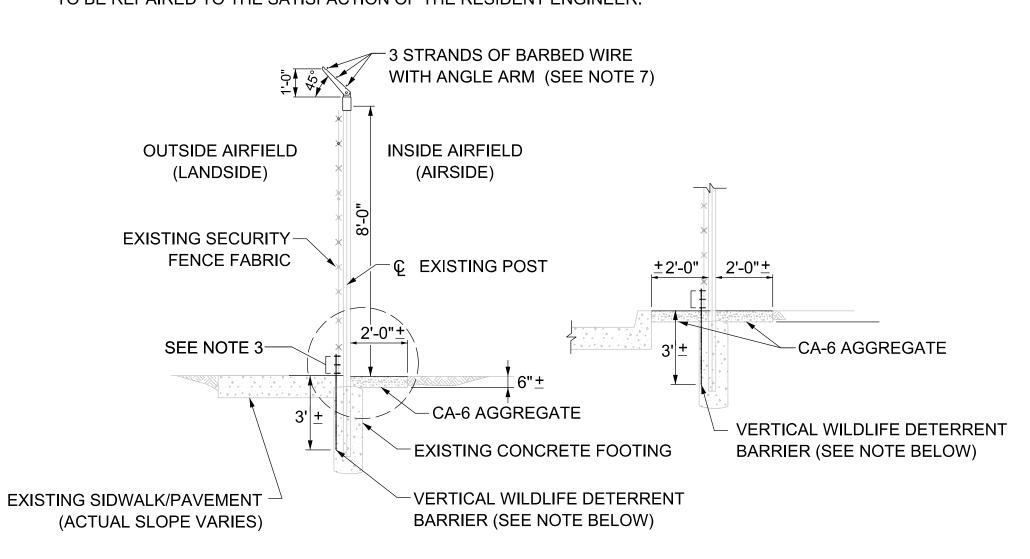
STANDARD GROUND

COUNTERPOISE GROUND (ALTERNATE)

PROTECTIVE ELECTRICAL GROUNDS NTS

NOTES:

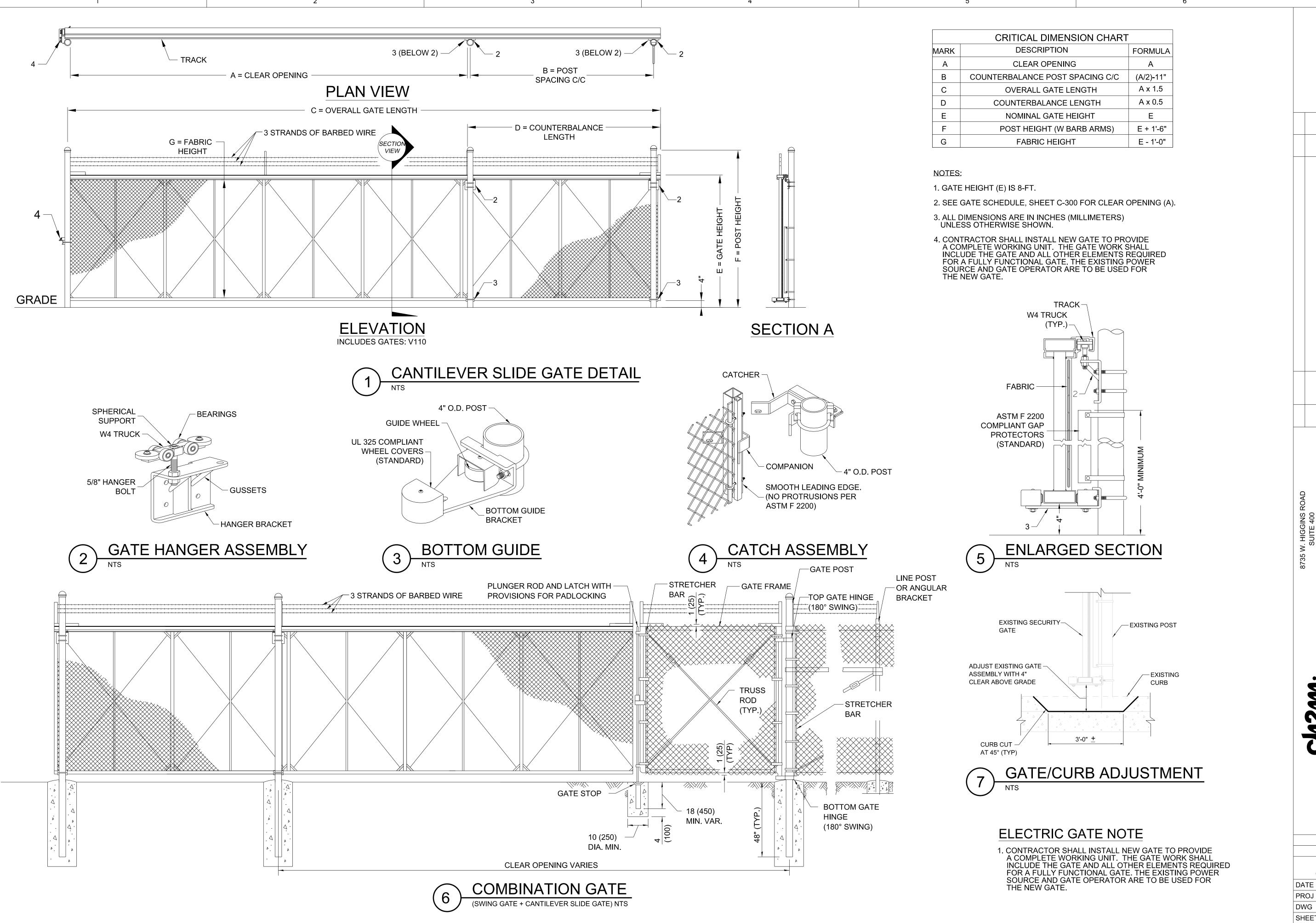
- MAINTAIN SECURITY FENCE INTEGRITY AT ALL TIMES. DO NOT LEAVE EXCAVATIONS UNDER FENCE FABRIC WHICH WOULD PERMIT ACCESS.
- 2. DEPTH OF EXCAVATION WILL BE INSPECTED AND APPROVED BY THE RESIDENT ENGINEER PRIOR TO PLACEMENT OF THE CHAIN LINK WILDLIFE DETERRENT FENCE BARRIER.
- 3. END JOINTS BETWEEN ADJACENT SECTIONS OF WIRE FABRIC MUST BE LAPPED A MINIMUM OF 4" AND TIED WITH GALVANIZED WIRE TIES AT 2'-0" O.C. AND AT EDGES.
- 4. CONTRACTOR MAY REUSE UNDAMAGED EXISTING 6' CHAIN LINK FABRIC AS WILDLIFE DETERRENT BARRIER FABRIC.
- 5. QUANTIFIED LIMITS OF RESTORATION INCLUDING SEEDING AND MULCHING THE CONTRACTOR SHALL ADHARE TO THE RESTORATION LIMITS. ANY WORK COMPLETED BEYOND THE IDENTIFIED RESTORATION LIMITS WILL NOT BE PAID FOR UNDER THIS CONTRACT UNLESS APPROVED BY THE RESIDENT ENGINEER. ALL OTHER WORK ELEMENTS ASSOCIATED WITH THE RESTORATION INCLUDING EXCAVATION AND TOPSOIL PLACEMENT ARE INCIDENTAL TO THE CONTRACT.
- 6. VERTICAL WILDLIFE DETERRENT BARRIER FABRIC IS TO BE PLACED ONLY IN LIMITED ACCESS AREAS SUCH AS ADJACENT SIDEWALKS, CURBS, CONCRETE PADS, UTILITY CONFLICTS WHERE ANGLED WILDLIFE DETERRENT BARRIER MAY NOT BE USED DUE TO OBSTRUCTION, AS IDENTIFIED IN THE PLANS OR APPROVED BY THE RESIDENT ENGINEER. RESTORATION OF THE SITE TO MATCH EXISTING IN THESE AREAS IS INCIDENTAL TO THE CONTRACT.
- 7. ANGLE ARMS FOR EXISTING FENCE TO BE INSTALLED ON EXISTING LINE POSTS UNLESS OTHERWISE APPROVED BY THE RESIDENT ENGINEER. EXTENSIONS ON GATES FOR ADDITION OF 3-STAND BARBED WIRE TO BE FIELD WELDED USING A KIT AS APPROVED BY THE RESIDENT ENGINEER. ANY DAMAGE TO EXISTING FENCE DUE TO INSTALLATION TO BE REPAIRED TO THE SATISFACTION OF THE RESIDENT ENGINEER.



SPECIAL CASE SECTIONS
SEE NOTE 6.

CL2M .	8735 W. HIGGINS ROAD SUITE 400 CHICAGO, IL 60631				
FENCE DETAILS 3	PHASE II - UPGRADE WILDLIFE HAZARD FENCING ON SOUTHERN AND WESTERN BOUNDARIES	3 1 2019/11/15	100% SUBMITTAL	T T	DUPAGE AIRPORT AUTHORITY
	DUPAGE AIRPORT (DPA)	NO. DATE	REVISION	BY APVD	
	WEST CHICAGO, IL	DSGN	DR TL CHK TM AF	APVD TM	

DATE 2019/11/15
PROJ DPA-4773
DWG C-503
SHEET 20 of 26



FILENAME: 4773-C-504-FENC.dgn

VERIFY SCALE BAR IS ONE INCH ON

ORIGINAL DRAWING.

PLOT TIME: 9:54:47 AM

2019/11/15

DPA-4773

21 of 26

C-504

SITE DESCRIPTION

THE FOLLOWING IS A DESCRIPTION OF THE NATURE OF THE CONSTRUCTION ACTIVITY OR DEMOLITION WHICH IS THE SUBJECT OF THIS PLAN:

THE PROPOSED PROJECT INVOLVES UPGRADING EXISTING SECURITY FENCING ALONG THE SOUTHERN AND WESTERN BOUNDARIES OF THE AIRPORT. THE PROPOSAL INVOLVES REMOVING EXISTING 6-FOOT HIGH FENCING AND REPLACING WITH AN 8-FOOT HIGH FENCE WITH BARBED WIRE (3-STRANDS), 4-FOOT ANGLED WILDLIFE DETERRENT BARRIER AND 4-FOOT-WIDE VEGETATION-FREE ZONE. IN AREAS WHERE THE EXISTING FENCING IS ALREADY 8-FEET-HIGH, THE WORK WILL INVOLVE INSTALLATION OF BARBED WIRE (3-STRANDS) ON TOP OF FENCE, ANGLED WILDLIFE DETERRENT BARRIER AND 4-FOOT-WIDÉ VEGETATION FREÉ ZONE (WHERE APPLICABLE) ONLY.

THE FOLLOWING IS A DESCRIPTION OF THE INTENDED SEQUENCE OF MAJOR ACTIVITIES WHICH WILL DISTURB SOIL ON MAJOR PORTIONS OF THE CONSTRUCTION SITE. THE CONSTRUCTION ACTIVITIES MAY BE AS FOLLOWS: (GRUBBING, CLEARING, EXCAVATION, GRADING, BUILDING INFRASTRUCTURE, ETC.).

- 1. EROSION CONTROL
- 2. FENCE REMOVAL
- 3. FENCE INSTALLATION
- 4. INSTALLATION OF WILDLIFE DETERRENT BARRIER
- 5. SITE RESTORATION
- 6. SEEDING AND MULCHING

THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 2.1 ACRES. THE TOTAL AREA OF THE SITE THAT IS ESTIMATED TO BE DISTURBED BY EXCAVATION, GRADING OR OTHER ACTIVITIES IS 2.1 ACRES. THE ESTIMATED RUNOFF COEFFICIENT OF THE SITE WILL BE .40 AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED. THE EXISTING SOIL IS DETAILED IN THE SOIL BORING SHEETS WITHIN THE CONTRACT DOCUMENTS.

THE RECEIVING WATER BODY FOR THIS PROJECT IS KRESS CREEK.

THE AERIAL EXTENT OF WETLAND ACREAGE AT THE SITE IS 0.0 ACRE.

CONTROLS:

THIS SECTION OF THE PLAN ADDRESSES THE VARIOUS CONTROLS THAT MUST BE IMPLEMENTED FOR EACH OF THE MAJOR CONSTRUCTION ACTIVITIES DESCRIBED ABOVE. FOR EACH MEASURE DISCUSSED, THE CONTRACTOR WILL BE RESPONSIBLE FOR ITS IMPLEMENTATION AS INDICATED. EACH SUCH CONTRACTOR HAS SIGNED THE REQUIRED CERTIFICATION ON FORMS WHICH ARE ATTACHED TO, AND ARE A PART OF THIS PLAN. THE EROSION CONTROL PLAN DRAWINGS INCLUDED DEFINE THE SIZE AND LOCATION OF THE MEASURES TO BE INSTALLED DURING THE CONSTRUCTION OF THIS PROJECT. UNLESS OTHERWISE SPECIFIED IN THE ILLINOIS URBAN MANUAL, THE STORM WATER POLLUTION PREVENTION PLAN MUST BE DESIGNED FOR A STORM EVENT EQUAL TO OR GREATER THAN A 25-YEAR 24 HOUR RAINSTORM EVENT.

AT A MINIMUM, SITE EROSION AND SEDIMENT CONTROLS AND OVERALL SITE MANAGEMENT

- * CONTROL STORM WATER VOLUME WITHIN THE SITE TO MINIMIZE SOIL EROSION;
- * CONTROL STORM WATER DISCHARGES, INCLUDING BOTH PEAK FLOW RATES AND TOTAL STORM WATER VOLUME, TO MINIMIZE EROSION AT OUTLETS AND TO MINIMIZE DOWNSTREAM CHANNEL AND STREAM BANK EROSION;
- * MINIMZE THE AMOUNT OF SOIL EXPOSED DURING CONSRUCTION ACTIVITY;
- * MINIMIZE THE DISTURBANCE OF STEEP SLOPES:
- * MINIMIZE SEDIMENT DISCHARGES FROM THE SITE:
- * ADDRESS FACTORS SUCH AS THE AMOUNT, FREQUENCY, INTENSITY, AND DURATION OF PRECIPITATION, THE NATURE OF RESULTING STORM WATER RUNOFF, AND SOIL CHARACTERISTICS, INCLUDING THE RANGE OF SOIL PARTICLE SIZES EXPECTED TO BE PRESENT ON SITE:
- * PROVIDE AND MAINTAIN NATURAL BUFFERS AROUND SURFACE WATERS, DIRECT STORM WATER TO VEGETATED AREAS TO INCREASE SEDIMENT REMOVAL AND MAXIMIZE STORM WATER INFILTRATION (UNLESS INFEASIBLE);
- * MINIMZE SOIL COMPACTION AND UNLESS INFEASIBLE. PRESERVE TOPSOIL.

EROSION AND SEDIMENT CONTROLS

STABILIZATION PRACTICES: THE FOLLOWING INTERIM AND PERMANENT STABILIZATION PRACTICES, AS A MINIMUM, MUST BE IMPLEMENTED TO STABILIZE THE DISTURBED AREA OF THE SITE:

- MULCHING
- PERMANENT SEEDING

INTERIM AND PERMANENT STABILIZATION PRACTICES, INCLUDING SITE-SPECIFIC SCHEDULING OF THE IMPLEMENTATION OF THE PRACTICES ARE INCLUDED IN THIS STORMWATER POLLUTION PREVENTION PLAN. SITE PLANS MUST ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. STABILIZATION PRACTICES MAY INCLUDE: TEMPORARY STABILIZATION WITH STRAW MULCH, TEMPORARY PRESERVATION OF EXISTING VEGETATION, AND OTHER APPROPRIATE MEASURES. THE SURFACE OF STRIPPED AREAS MUST BE PERMANENTLY OR TEMPORARILY PROTECTED FROM SOIL EROSION WITHIN 7 DAYS AFTER FINAL GRADING IS REACHED. TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE MAINTAINED CONTINUOUSLY UNTIL PERMANENT COVER IS ESTABLISHED. ANY OPEN DITCH OR SWALE MUST BE STABILIZED 24 HOURS AFTER REACHING FINAL GRADE AND BEFORE CONCENTRATED FLOWS ARE DIVERTED TO THOSE DITCHES. NO PART OF THE DITCH OR SWALE MUST BE LEFT UNSTABLE FOR MORE THAN 7 DAYS.

STABILIZATION PRACTICES - IMPLEMENTATION REQUIREMENTS

• STABILIZATION OF DISTURBED AREAS MUST. AT A MINIMUM. BE INITIATED IMMEDIATELY WHENEVER ANY CLEARING, GRADING, EXCAVATING, OR OTHER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.

STABILIZATION PRACTICES - IMPLEMENTATION REQUIREMENTS (CONTINUED)

STABILIZATION OF DISTURBED AREAS MUST BE INITIATED WITHIN 1 WORKING DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE BUT NOT LATER THAN 14 DAYS FROM THE INITIATION OF STABILIZATION WORK IN AN AREA. EXCEPTIONS TO THESE TIME FRAMES ARE SPECIFIED AS FOLLOWS:

- WHERE THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER. STABILIZATION MEASURES SHALL BE INITIATED A SOON AS PRACTICABLE.
- ON AREAS WHERE CONSTRUCTION ACTIVITY CEASED AND WILL RESUME AFTER 14 DAYS, A TEMPORARY STABILIZATION METHOD CAN BE USED.
- TEMPORARY STABILIZATION WITH POLYMER, STRAW MULCH AT A RATE OF 2 TON/ACRE, OR TEMPORARY SEEDING MUST BE USED TO STABILIZE CONSTRUCTION AREAS WHERE CONSTRUCTION ACTIVITY IS HALTED FOR MORE THAN 14 DAYS. TEMPORARY STABILIZATION MUST BE INITIATED WITHIN 1 DAY OF PERMANENT OR TEMPORARY CESSATION OF EARTH DISTURBING ACTIVITIES. BOTH MULCH AND/OR TEMPORARY SEEDING MUST INCLUDE POLYMER IN ADDITION TO THE MIX.
- STOCKPILES TO REMAIN IN PLACE MORE THAN 3 DAYS MUST BE SURROUNDED WITH SILT FENCE AND "TRACK WALKED" UP AND DOWN THE SLOPE TO PREVENT FURTHER EROSION. STOCKPILES TO REMAIN UNDISTURBED MORE THAN 14 DAYS MUST RECEIVE TEMPORARY STABILIZATION. STOCKPILES OF SOIL MUST NOT BE LOCATED IN FLOODPLAINS, RIPARIAN AREAS (VEGETATIVE FLOODPLAINS), WETLANDS, AND WATER OF THE U.S.
- REMOVAL OF EXISTING VEGETATION /TOPSOIL AND GRADING ACTIVITIES MUST BE CONDUCTED IN A MANNER THAT LIMITS THE AMOUNT OF EXPOSED AREA AT ANY ONE TIME. WHEN GRADING IS FINAL. PERMANENT SITE STABILIZATION MUST BE COMPLETED USING PERMANENT SEEDING AND EROSION BLANKET ON SLOPES 4:1 OR STEEPER AND HYDROMULCH ON SLOPES FLATTER THAN 4:1.
- DUST CONTROL MUST BE ACCOMPLISHED USING WATERING TRUCKS.

STRUCTURAL PRACTICES: THE FOLLOWING STRUCTURAL PRACTICES, AS A MINIMUM, MUST BE IMPLEMENTED TO CONTROL SEDIMENT FROM THE DISTURBED AREAS ON SITE:

- PERIMETER EROSION BARRIER (SILT FENCE)
- STRAW WATTLE (DITCH PROTECTION)
- INLET PROTECTION

STRUCTURAL PRACTICES MUST BE IMPLEMENTED, TO THE DEGREE ATTAINABLE, TO DIVERT FLOWS FROM EXPOSED SOILS, STORE FLOWS OR OTHERWISE LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREA OF THE SITE. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CLEAN WATER ACT.

STRUCTURAL PRACTICES - IMPLEMENTATION REQUIREMENTS

- WATERS OF THE U.S. WITHIN OR ADJACENT TO THE PROJECT MUST BE PROTECTED WITH PERIMETER EROSION BARRIER.
- ALL STORM SEWER INLET STRUCTURES MUST BE PROTECTED WITH STORM SEWER INLET PROTECTION (I.E. INLET FILTERS) PER INLET PROTECTION DETAILS IN THE PLANS. ALTERNATE TYPES OF PROTECTION MAY BE SUBMITTED FOR REVIEW AND APPROVAL BY THE OWNER OR KDSWCD.
- TEMPORARY CONSTRUCTION ENTRANCES AND EXITS MUST BE CONSTRUCTED AT ALL LOCATIONS WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES THE SITE. RUNOFF FROM HAUL ROADS MUST NOT DRAIN DIRECTLY TO WATERS OF THE U.S.

USE OF TREATMENT CHEMICALS:

IF POLYMERS, FLOCCULATES, OR OTHER TREATMENT CHEMICALS ARE USED AT THE SITE, THEIR USE MUST COMPLY WITH THE FOLLOWING MINIMUM REQUIREMENTS:

- SELECT APPROPRIATE TREATMENT CHEMICALS. CHEMICALS MUST BE SELECTED THAT ARE APPROPRIATELY SUITED TO THE TYPES OF SOILS LIKELY TO BE EXPOSED DURING CONSTRUCTION AND DISCHARGED TO LOCATIONS WHERE CHEMICALS WILL BE APPLIED, AND TO THE EXPECTED TURBIDITY, PH. AND FLOW RATE OF STORM WATER FLOWING INTO THE CHEMICAL TREATMENT SYSTEM OR AREA.
- MINIMIZE DISCHARGE RISK FROM STORED CHEMICALS. STORE ALL TREATMENT CHEMICALS IN LEAK-PROOF CONTAINERS THAT ARE KEPT UNDER STORM-RESISTANT COVER AND SURROUNDED BY SECONDARY CONTAINMENT STRUCTURES (E.G. SPILL BERMS, DECKS, SPILL CONTAINMENT PALLETS), OR PROVIDED EQUIVALENT MEASURES, DESIGNED AND MAINTAINED TO MINIMIZE THE POTENTIÁL DISCHARGE OF TREATMENT CHEMICALS IN STORM WATER OR BY ANY OTHER MEANS (E.G. STORING CHEMICALS IN COVERED AREA OR HAVING A SPILL KIT AVAILABLE ON SITE).
- COMPLY WITH ILLINOIS URBAN MANUAL, 2012 POLYACRYLAMIDE PRACTICE STANDARDS

USE OF TREATMENT CHEMICALS (CONTINUED):

- TREATMENT CHEMICALS AND CHEMICAL TREATMENT SYSTEMS SHOULD BE USED IN ACCORDANCE WITH GOOD ENGINEERING PRACTICES, AND WITH DOSING SPECIFICATIONS AND SEDIMENT REMOVAL DESIGN SPECIFICATIONS PROVED BY THE PROVIDED/SUPPLIER OF THE APPLICABLE CHEMICALS, OR DOCUMENT SPECIFIC DEPARTURES FROM THESE PRACTICES OR SPECIFICATIONS AND HOW THEY REFLECT GOOD ENGINEERING PRACTICE.
- MAINTAIN ASSOCIATED MSDS ON SITE.
- ENSURE THAT ALL PERSONS WHO HANDLE AND USE TREATMENT CHEMICALS AT THE CONSTRUCTION SITE ARE PROVIDE WITH APPROPRIATE, PRODUCT-SPECIFIC TRAINING. THE TRAINING MUST COVER PROPER DOSING REQUIREMENTS.

BMPS - POST-CONSTRUCTION STORM WATER MANAGEMENT

PROVIDED BELOW IS A DESCRIPTION OF MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL THE POLLUTANTS IN STORM WATER DISCHARGES THAT WILL OCCUR AFTER THE CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CLEAN WATER ACT.

THE PRACTICES SELECTED FOR IMPLEMENTATION WERE DETERMINED ON THE BASIS OF THE TECHNICAL GUIDANCE CONTAINED IN THE ILLINOIS URBAN MANUAL, 2012 AND OTHER ORDINANCES LISTED IN THE SPECIFICATIONS. POST CONSTRUCTION STORM WATER CONTROL MEASURES SHALL INCLUDE:

INFILTRATION OF ONSITE RUNOFF

VELOCITY DISSIPATION DEVICES MUST BE PLACED AT DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNEL AS NECESSARY TO PROVIDE A NON-EROSIVE VELOCITY FLOW FROM THE STRUCTURE TO A WATER COURSE SO THAT THE NATURAL PHYSICAL AND BIOLOGICAL CHARACTERISTICS AND FUNCTIONS ARE MAINTAINED AND PROTECTED (I.E., MAINTENANCE OF HYDROLOGIC CONDITIONS, SUCH AS THE HYDROPERIOD AND HYDRODYNAMICS PRESENT PRIOR TO THE INITIATION OF CONSTRUCTION ACTIVITIES)

PROVIDE AN EXPLANATION OF THE TECHNICAL BASIS USED TO SELECT PRACTICES TO CONTROL POLLUTION PREVENTION WHERE POST-CONSTRUCTOIN FLOWS WILL EXCEED PREDEVELOPMENT LEVELS HERE:

 POST CONSTRUCTION FLOWS WILL NOT EXCEED PRE-DEVELOPMENT LEVELS. NO GRADE CHANGES BEING CONSTRUCTED AND FINAL SURFACE WILL MATCH EXISTING SURFACE.

OTHER CONTROLS

WASTE DISPOSAL: THE SOLID WASTE MATERIALS INCLUDING TRASH, CONSTRUCTION DEBRIS, EXCESS CONSTRUCTION MATERIALS, MACHINERY, TOOLS AND OTHER ITEMS MUST BE COLLECTED AND DISPOSED OFF-SITE BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR THE ACQUISITION OF THE NECESSARY DISPOSAL PERMITS. BURNING ON THE SITE WILL NOT BE PERMITTED. NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, MUST BE DISCHARGED INTO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

CONCRETE WASTE OR WASHOUT SHOULD NOT BE ALLOWED IN THE STREET OR ALLOWED TO REACH A STORM WATER DRAINAGE SYSTEM OR WATERCOURSE. CONCRETE WASHOUT SHOULD BE COMPLETED OFF SITE, OR IF ALLOWED ON SITE BY THE PRIMARY CONTACT, WASHOUT SHOULD BE CONTAINED AND COMPLETED IN A LOCATION DESIGNATED BY THE PRIMARY OR SECONDARY CONTACT.

ON SITE CONCRETE WASHOUT CONTAINMENT FACILITIES SHOULD BE OF SUFFICIENT VOLUME TO COMPLETELY CONTAIN ALL LIQUID AND CONCRETE WASTE MATERIALS INCLUDING ENOUGH CAPACITY FOR ANTICIPATED LEVELS OF RAINWATER. CONTAINMENT FACILITIES SHALL BE LINED WITH A 30-MIL IMPERMEABLE LINER. THE DRIED CONCRETE WASTE MATERIAL SHOULD BE PICKED UP AND DISPOSED OF PROPERLY WHEN TWO-THIRDS CAPACITY IS REACHED.

THE PROVISIONS OF THIS PLAN MUST ENSURE AND DEMONSTRATE COMPLIANCE WITH APPLICABLE STATE AND/OR LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.

VEHICLE/EQUIPMENT STORAGE, MAINTENANCE, & WASHING:

WHENEVER POSSIBLE, VEHICLE AND EQUIPMENT MAINTENANCE AND WASHING SHOULD OCCUR OFF SITE AT APPROPRIATE AREAS. IF VEHICLE AND EQUIPMENT MAINTENANCE MUST OCCUR ON SITE. (INCLUDING BOTH ROUTINE MAINTENANCE) REPAIRS AND MAINTENANCE SHOULD BE MADE WITHIN A DESIGNATED CONTAINMENT AREA TO PREVENT THE MIGRATION OF MECHANICAL FLUIDS (OIL, ANTIFREEZE, ETC.) INTO WATERCOURSES, WETLANDS OR STORM DRAINS. DRIP PANS OR ABSORBENT PADS SHOULD BE USED FOR ALL VEHICLE AND EQUIPMENT MAINTENANCE ACTIVITIES THAT INVOLVE GREASE, OIL, SOLVENTS, OR OTHER VEHICLE FLUIDS. CONSTRUCTION VEHICLES SHOULD BE INSPECTED FREQUENTLY TO IDENTIFY ANY LEAKS; LEAKS SHOULD BE REPAIRED IMMEDIATELY OR THE VEHICLE SHOULD BE REMOVED FROM SITE. DISPOSE OF ALL USED OIL, ANTIFREEZE, SOLVENTS AND OTHER VEHICLE RELATED CHEMICALS IN ACCORDANCE WITH USEPA AND IEPA REGULATIONS AND PER MATERIAL SAFETY DATA SHEET (MSDS) AND/OR MANUFACTURER INSTRUCTIONS. CONTRACTORS SHOULD IMMEDIATELY REPORT SPILLS TO THE OWNER.

VEHICLE/EQUIPMENT WASH WATER SHOULD BE TREATED IN A SEDIMENT TRAP OR OTHER BMP THAT WILL PROVIDE EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE. BLOWERS OR VACUUMS SHOULD BE USED INSTEAD OF RINSE WATER TO REMOVE DRY MATERIALS FROM VEHICLES WHENEVER POSSIBLE. IF DETERGENTS ARE REQUIRED TO CLEAN VEHICLES OR EQUIPMENT, BIODEGRADABLE DETERGENTS AND WASH PRODUCTS FREE OF HALOGENATED SOLVENTS SHOULD BE USED. THE LOCATION OF WASH AREAS SHOULD BE DOCUMENTED ON THE SITE MAP, AND WORKERS SHOULD BE NOTIFIED OF THE WASH AREAS. DO NOT PERFORM OTHER ACTIVITIES, SUCH AS VEHICLE REPAIRS, IN A WASH AREA. WHEN NOT IN USE, VEHICLES UTILIZED ON SITE FOR CONSTRUCTION OPERATIONS SHOULD BE STORED IN A DESIGNATED AREA OUTSIDE OF THE REGULATORY FLOODPLAIN, AWAY FROM ANY NATURAL OR CREATED WATERCOURSE, POND. DRAINAGE-WAY OR STORM DRAIN.

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ORMWATER PORTION I

THE FOLLOWING GOOD HOUSEKEEPING PRACTICES SHOULD BE FOLLOWED ON SITE DURING THE CONSTRUCTION PROJECT:

- * MINIMIZE THE EXPOSURE OF BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTE, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS ONSITE TO PRECIPITATION AND STORM WATER.
- * AN EFFORT SHOULD BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
- * ALL MATERIALS STORED ON SITE SHOULD BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND ADEQUATELY PROTECTED FROM THE ENVIRONMENT.
- * PRODUCTS SHOULD BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
- * SUBSTANCES SHOULD NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
- * OPERATIONS SHOULD BE OBSERVED AS NECESSARY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ON SITE.
- * WHENEVER POSSIBLE, ALL OF A PRODUCT SHOULD BE USED UP BEFORE DISPOSING OF THE CONTAINER.
- * MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHOULD BE FOLLOWED.

FOR BUILDING PRODUCTS:

STORE IN DESIGNATED STORAGE AREAS AND PROVIDE EITHER A COVER (E.G., PLASTIC SHEETING OR TEMPORARY ROOFS) TO PREVENT THESE PRODUCTS FROM COMING INTO CONTACT WITH RAINWATER, OR A SIMILARLY EFFECTIVE MEANS DESIGNED TO PREVENT THE DISCHARGE OF POLLUTANTS FROM THESE AREAS.

FOR PESTICIDES, HERBICIDES, INSECTICIDES, FERTILIZERS, AND LANDSCAPE

STORE IN DESIGNATED STORAGE AREAS AND PROVIDE EITHER A COVER (E.G., PLASTIC SHEETING OR TEMPORARY ROOFS) TO PREVENT THESE CHEMICALS FROM COMING INTO CONTACT WITH RAINWATER, OR A SIMILARLY EFFECTIVE MEANS DESIGNED TO PREVENT THE DISCHARGE OF POLLUTANTS FROM THESE AREAS. PULTE MUST ALSO COMPLY WITH ALL APPLICATION AND DISPOSAL REQUIREMENTS INCLUDED ON THE REGISTERED PESTICIDE, HERBICIDE, INSECTICIDE. AND FERTILIZER LABEL.

FOR DIESEL FUEL, OIL, HYDRAULIC FLUIDS, OTHER PETROLEUM PRODUCTS, AND

OTHER CHEMICALS:
STORE CHEMICALS IN WATER-TIGHT CONTAINERS, AND PROVIDE EITHER A COVER
(E.G., PLASTIC SHEETING OR TEMPORARY ROOFS) TO PREVENT THESE CONTAINERS
FROM COMING INTO CONTACT WITH RAINWATER, OR A SIMILARLY EFFECTIVE MEANS
DESIGNED TO PREVENT THE DISCHARGE OF POLLUTANTS FROM THESE AREAS (E.G.,
SPILL KITS), OR PROVIDE SECONDARY CONTAINMENT (E.G., SPILL BERMS, DECKS, SPILL
CONTAINMENT PALLETS). SPILLS MUST BE CLEANED UP IMMEDIATELY, USING DRY CLEAN-UP
METHODS WHERE POSSIBLE. DO NOT CLEAN THE SURFACES OR SPILLS BY HOSING THE
AREA DOWN. ELIMINATE THE SOURCE OF THE SPILL TO PREVENT A DISCHARGE OR A
CONTINUATION OF AN ONGOING DISCHARGE.

APPROVED STATE OR LOCAL PLANS

THE MANAGEMENT PRACTICES, CONTROLS, AND OTHER PROVISIONS CONTAINED IN THIS PLAN ARE AT LEAST AS PROTECTIVE AS THE REQUIREMENTS CONTAINED IN THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, MOST RECENT VERSION. ILLINOIS PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION PLAN THAT ARE APPLICABLE TO PROTECTING SURFACE WATER RESOURCES ARE, UPON SUBMITTAL OF A NOTICE OF INTENT TO BE AUTHORIZED TO DISCHARGE UNDER THIS PERMIT, INCORPORATED BY REFERENCE AND ARE ENFORCEABLE UNDER THIS PERMIT EVEN IF THEY ARE NOT SPECIFICALLY INCLUDED IN THE PLAN.

MAINTENANCE

VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THIS PLAN MUST BE MAINTAINED IN GOOD AND EFFECTIVE OPERATING CONDITIONS.

FOR EACH SPECIFIC EROSION AND SEDIMENT CONTROL MEASURE, MAINTENANCE AND INSPECTION, CONTRACTOR MUST REFER TO THE ILLINOIS URBAN MANUAL STANDARD PRACTICE.

INSPECTIONS

THE OWNER AND CONTRACTOR MUST PROVIDE QUALIFIED PERSONNEL TO INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE WHICH HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, DISCHARGE POINTS, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE. SUCH INSPECTIONS MUST BE CONDUCTED AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS OF THE END OF A STORM, OR BY THE END OF THE FOLLOWING BUSINESS OR WORK DAY, THAT IS 0.5 INCHES OR GREATER. INSPECTIONS MAY BE REDUCED TO ONCE PER MONTH WHEN CONSTRUCTION ACTIVITIES HAVE CEASED DUE TO FROZEN CONDITIONS. INSPECTIONS MUST COMMENCE WHEN CONSTRUCTION ACTIVITIES ARE CONDUCTED, OR IF THERE IS A 0.5 INCHES OR GREATER RAIN EVENT, OR DISCHARGE DUE TO SNOWMELT OCCURS.

DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION MUST BE INSPECTED FOR EVIDENCE OF OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN MUST BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY MUST BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE MUST BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.

AT THE DISCRETION OF THE OWNER, KDSWCD, OR UNITED STATES ARMY CORPS OF ENGINEERS (USACE), VIOLATIONS FOUND DURING INSPECTIONS MUST BE CORRECTED WITHIN SEVEN (7) DAYS IF MINOR, THREE (3) DAYS IF MODERATE, AND IMMEDIATELY IF SEVERE.

THE CONTRACTOR MUST PREPARE REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THIS STORMWATER POLLUTION PREVENTION PLAN, AND ACTIONS TAKEN. THE REPORT MUST BE MADE AND RETAINED AS PART OF THE PLAN FOR AT LEAST THREE (3) YEARS AFTER THE DATE OF THE INSPECTION. THE REPORT MUST BE SIGNED IN ACCORDANCE WITH PART VI.G OF THE ILR10 GENERAL PERMIT.

IF ANY VIOLATION OF THE PROVISIONS OF THIS PLAN IS IDENTIFIED DURING THE CONDUCT OF THE CONSTRUCTION WORK COVERED BY THIS PLAN, THE RESIDENT ENGINEER OR OWNER'S REPRESENTATIVE MUST NOTIFY THE APPROPRIATE AGENCY FIELD OPERATIONS OFFICE OF THE IEPA BY EMAIL, TELEPHONE OR FAX WITHIN 24 HOURS OF ANY INCIDENCE OF NON-COMPLIANCE (ION) OR FOR VIOLATIONS OF ANY CONDITION OF THE PERMIT. ADDITIONALLY, THE OWNER'S REPRESENTATIVE MUST FILE WITHIN 5 DAYS, FORMS PROVIDED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY AND WILL INCLUDE SPECIFIC INFORMATION ON THE CAUSE OF NONCOMPLIANCE, ACTIONS WHICH WERE TAKEN TO PREVENT FURTHER CAUSES OF NONCOMPLIANCE, AND A STATEMENT DETAILING ANY ENVIRONMENTAL IMPACT WHICH MAY HAVE RESULTED FROM THE NONCOMPLIANCE. ALL REPORTS OF NONCOMPLIANCE MUST BE SIGNED BY A RESPONSIBLE AUTHORITY IN ACCORDANCE WITH PART VI.G OF THE GENERAL PERMIT. THE REPORT OF NONCOMPLIANCE MUST BE MAILED TO THE FOLLOWING ADDRESS:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF WATER POLLUTION CONTROL ATTN: COMPLIANCE ASSURANCE SECTION 1021 NORTH GRAND AVENUE EAST POST OFFICE BOX 19276 SPRINGFIELD, IL 62794-9276

NON-STORMWATER DISCHARGES

THE FOLLOWING NON-STORM WATER DISCHARGES MAY BE AUTHORIZED PROVIDED THE NON-STORM WATER COMPONENT OF THE DISCHARGES IS IN COMPLIANCE WITH PART IV.D.5 OF THE ILR10 PERMIT:

- DISCHARGES FROM FIREFIGHTING ACTIVITES
- FIRE HYDRANT FLUSHING
- WATERS USED TO WASH VEHICLES WHERE DETERGENTS ARE NOT USED
 WATERS USED TO CONTROL DUST
- POTABLE WATER SOURCES INCLUDING UNCONTAMINATED WATERLINE FLUSHINGS
- LANDSCAPE IRRIGATION DITCHES
 PAVEMENT WASHWATERS WHERE SPILLS OR LEAKS
- OF TOXIC OR HAZARDOUS MATERIALS MAY HAVE NOT OCCURRED (UNLESS ALL MATERIAL HAS BEEN REMOVED) AND DETERGENTS ARE NOT USED
- UNCONTAMINATED GROUND WATER

THE FOLLOWING NON-STORM WATER DISCHARGES ARE PROHIBITED:

- CONCRETE AND WASTEWATER FROM WASHOUT OF CONCRETE (UNLESS MANAGED BY
- AN APPROPRIATE CONTROL)

 DRYWALL COMPOUND
- WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO AND PAINT
 FORM RELEASE OILS
- CURING COMPOUNDS
- CONSTRUCTION MATERIALS, FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE
- SOAPS, SOLVENTS, OR DETERGENTS
- TOXIC OR HAZARDOUS SUBSTANCES FROM A SPILL OR OTHER RELEASE
 OR ANY OTHER POLLUTANT THAT COULD CAUSE OR TEND TO CAUSE WATER POLLUTION

THE PLAN MUST IDENTIFY AND ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION AND EROSION AND SEDIMENT CONTROL MEASURES FOR THE NON-STORMWATER COMPONENTS OF THE DISCHARGE.

DURING DEWATERING OPERATIONS, WATER MUST BE PUMPED INTO FILTER BAGS, SEDIMENT TRAPS OR SILT TRAPS. FILTERED WATER MUST BE DISCHARGED ONTO STABILIZED SURFACE TO PREVENT ADDITIONAL EROSION AND SEDIMENTATION.

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AND PROVIDES NATURAL, PLEASING APPEARANCE

INSPECTION AND MAINTENANCE SCHEDULE

ACTIVITY	RESPONSIBLE PARTY	DURATION
STABILIZATION DURING CONSTRUCTION MAINTENANCE	CONTRACTOR	AT LEAST ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A RAIN EVENT, OR BY THE END OF THE FOLLOWING BUSINESS OR WORK DAY, THAT IS 0.5 INCHES OR GREATER.
STABILIZATION DURING CONSTRUCTION-OBSERVATION	CONTRACTOR	AT LEAST ONCE EVERY 7 CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A RAIN EVENT, OR BY THE END OF THE FOLLOWING BUSINESS OR WORK DAY, THAT IS 0.5 INCHES OR GREATER.
VEGETATION MAINTENANCE	CONTRACTOR	COMPLETION OF CONTRACT
VEGETATION AND STABILIZATION MAINTENANCE	OWNER	ONGOING AFTER CONSTRUCTION COMPLETION

PROPOSED WORK SCHEDULE

MOBILIZATION / IMPLEMENT EROSION CONTROL	DESCRIPTION OF CONSTRUCTION ACTIVITIES	FINAL STABILIZATION
10 DAYS	62 DAYS	5 DAYS

SOIL PROTECTION SCHEDULE

STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
TEMPORARY SEEDING												
EROSION BLANKET / HYDROMULCH												
MULCH												-
POLYMERS	*											

* OR UNTIL GROUND FREEZES

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SWPPP OPERATOR CERTIFICATION STATEMENT "I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS." TITLE SIGNATURE COMPANY DATE

CONTRACTOR CERTIFICATION

"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT ILR10 THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION."

CONTRACTOR	SIGNATURE COMPANY	TITLE
WIINESSED BY OWNER	SIGNATURE COMPANY	TITLE DATE
SUB-CONTRACTOR	SIGNATURE COMPANY RESPONSIBLE FOR	TITLE DATE

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ORMWATER POPULATION I

SOIL EROSION CONTROL AND SEDIMENT CONTROL NOTES

- 1. THE CONTRACTOR SHALL CONTACT THE KANE-DUPAGE SOIL AND WATER CONSERVATION DISTRICT (KDSWCD), ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO LAND DISTURBING ACTIVITY, AS SOON AS THE INITIAL EROSION CONTROL ITEMS ARE INSTALLED AND ONE WEEK PRIOR TO FINAL INSPECTION.
- 2. THE OWNER IS REQUIRED TO SUBMIT A NOTICE OF INTENT (NOI) TO THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA) FOR THE PROJECT. THE CONTRACTOR IS NOT PERMITTED TO BEGIN WORK UNTIL 30 DAYS FOLLOWING OWNER'S SUBMITTAL OF THE NOI.
- 3. SOIL EROSION AND SEDIMENT CONTROL (SESC) FEATURES MUST BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF UPLAND DISTURBANCE. SOIL DISTURBANCE MUST BE PHASED OR ENACTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES MUST CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY AND/OR PERMANENT MEASURES. DISTURBANCE OF AREAS NOT INCLUDED IN THE DESIGN WILL REQUIRE NOTIFICATION OF THE KDSWCD IN ACCORDANCE WITH THE 404 PERMIT SPECIAL CONDITIONS.
- 4. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED AT MINIMUM ACCORDING TO THE STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL, REVISED TO LATEST VERSION AS AMENDED. A COPY OF THE APPROVED STORMWATER POLLUTION PREVENTION PLAN MUST BE MAINTAINED ON THE SITE AT ALL TIMES.
- 5. THE EROSION CONTROL SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED AS DIRECTED BY THE OWNER'S REPRESENTATIVE, THE KDSWCD, OR USACE. ALL ADDITIONAL MEASURES MUST BE IN PLACE WITHIN 3 DAYS OF DISTURBANCE AND ANY EMERGENCY SESC MEASURES MUST BE INSTALLED IMMEDIATELY AT THE DISCRETION OF KDSWCD, OR USACE.
- 6. PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES OTHER THAN THOSE INDICATED ON THE PLANS (INCLUDING BUT NOT LIMITED TO ADDITIONAL PHASES OF THE DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS), A SUPPLEMENTAL EROSION CONTROL PLAN MUST BE SUBMITTED TO THE OWNER FOR REVIEW BY KDSWCD. THE CONTRACTOR BASED ON THE CONSTRUCTION SCHEDULE WEEKLY MEETING, WILL MODIFY STORM WATER POLLUTION PREVENTION PLAN IF NECESSARY. DEPENDING ON MODIFICATION TO THE WORK SCHEDULE. THE CONTRACTOR MUST SUBMIT DRAWINGS TO THE KDSWCD FOR REVIEW.
- 7. THE CONTRACTOR MUST CLEAN UP, GRADE THE WORK AREA AS THE PROJECT PROGRESSES, AND INSTALL EROSION PROTECTION TO ELIMINATE THE CONCENTRATION OF RUNOFF, OR MUST INSTALL APPROPRIATE SEDIMENT CONTROL DEVICES TO TRAP SEDIMENT. PAVEMENT MUST BE CLEANED DAILY OR AS NECESSARY TO REMOVE EARTHEN MATERIAL TO THE SATISFACTION OF THE OWNER, KDSWCD.
- 8. ALL CONTROL MEASURES NECESSARY TO MEET THE REQUIREMENTS OF THE DUPAGE COUNTY COUNTYWIDE STORMWATER AND FLOOD PLAIN ORDINANCE OR THE WAIVER COMMUNITY ORDINANCE MUST BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SEDIMENT AND EROSION CONTROL MEASURES ARE OPERATIONAL.
- 9. THE CONTRACTOR AND SUBCONTRACTORS MUST SUBMIT A WRITTEN AND SIGNED (BY CONTRACTOR) STORM WATER POLLUTION PREVENTION PLAN (SWPPP), MEETING THE REQUIREMENTS OF THE IEPA'S CURRENT NPDES STORM WATER PERMIT FOR CONSTRUCTION SITE ACTIVITIES, INCLUDING DETAILS OF SPECIFIC DEVICES SUCH AS SILT FENCE, DITCH CHECK, ETC. TO BE UTILIZED FOR EROSION AND SEDIMENT CONTROL. THE PLAN MUST BE SUBMITTED AND APPROVED BY THE OWNER A MINIMUM OF TEN (10) DAYS PRIOR TO INITIATION OF CONSTRUCTION ACTIVITIES. A COPY OF THE APPROVED SWPPP MUST BE GIVEN TO THE OWNER'S REPRESENTATIVE FIVE DAYS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.
- 10. THE CONTRACTOR AND OWNER MUST MAKE INSPECTIONS A MINIMUM OF ONCE EVERY SEVEN DAYS OF THE FOLLOWING:
 1) DISTURBED AREAS OF THE PROJECT SITE THAT HAVE NOT BEEN FULLY STABILIZED, 2) STRUCTURAL CONTROL MEASURES (SILT FENCES, ETC.), AND 3) LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE. AN ADDITIONAL INSPECTION OF THE ITEMS LISTED ABOVE MUST BE MADE WITHIN TWENTY-FOUR (24) HOURS OF A 0.5-INCH OR GREATER RAINFALL OR EQUIVALENT SNOWFALL.
- 11. THE CONTRACTOR AND OWNER MUST KEEP A WRITTEN REPORT SUMMARIZING THE REQUIRED INSPECTION EACH TIME AN INSPECTION TAKES PLACE. THE REPORTS MUST BE KEPT AT THE SITE DURING CONSTRUCTION. THE REPORTS MUST ALSO BE RETAINED FOR THREE YEARS FROM THE DATE THE SITE IS FINALLY STABILIZED.
- 12. THE OWNER'S REPRESENTATIVE MUST NOTIFY THE APPROPRIATE AGENCY FIELD OPERATIONS OFFICE OF THE IEPA BY EMAIL,
 TELEPHONE OR FAX WITHIN 24 HOURS OF ANY INCIDENCE OF NONCOMPLIANCE AND MUST FILL OUT AND FILE WITHIN FIVE (5) DAYS
 WITH THE EPA AN INCIDENCE OF NONCOMPLIANCE (ION) FORM WHEN REQUIRED BY THE PERMIT.
- 13. THE CONTRACTOR MUST COOPERATE WITH THE OWNER'S REPRESENTATIVES WHO WILL MAKE SITE VISITS TO REVIEW COMPLIANCE WITH THE PLAN IN THE FIELD AND AUDIT THE LOGS AND RECORDS REQUIRED BY THE PERMIT.
- 14. THE INSTALLATION, MAINTENANCE, REMOVAL AND RESTORATION OF THE AREA DISTURBED BY THE PLACEMENT OF THE PERIMETER EROSION BARRIER ARE INCLUDED IN THE CONTRACT UNIT PRICE FOR PERIMETER EROSION BARRIER. AFTER ALL PERIMETER EROSION BARRIER IS REMOVED. THE AREAS DAMAGED BY THE PERIMETER EROSION BARRIER MUST BE RESTORED.
- 15. DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO FILTER BAGS, SEDIMENT TRAPS, SILT TRAPS, OR POLYMER TREATMENT CHANNELS. FILTERED WATER SHOULD BE DISCHARGED ONTO STABILIZED SURFACE TO PREVENT ADDITIONAL EROSION AND/OR SEDIMENTATION. DEWATERING DIRECTLY INTO FIELD TILES, STORM WATER STRUCTURES, OR "WATERS OF THE U.S." IS PROHIBITED.
- 16. THE CONTRACTOR MUST CONSULT WITH A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL (CPESC) FOR THE DESIGN AND MAINTENANCE OF SEDIMENTATION BASINS WITH BAFFLE SYSTEM AND TRAPS AS WELL AS POLYMERS AND FLOC LOGS, IF REQUIRED.
- 17. ALL STORM SEWER INLET STRUCTURES MUST BE PROTECTED WITH STORM SEWER INLET PROTECTION (I.E. INLET FILTERS) PER INLET PROTECTION DETAILS IN THE PLANS. ALTERNATE TYPES OF PROTECTION MAY BE SUBMITTED FOR REVIEW AND APPROVAL BY THE OWNER OR KDSWCD.
- 18. THE CONTRACTOR MUST MAINTAIN AND PRESERVE ANY EXISTING SUB-SURFACE DRAINAGE SYSTEMS (I.E. FIELD TILES) ACCORDING TO THE RELEVANT DESIGN AND CONSTRUCTION STANDARDS.
- 19. CONSTRUCTION ACTIVITIES MUST BE SCHEDULED TO MINIMIZE THE TIME SOIL IS EXPOSED AND UNPROTECTED. IN NO CASE WILL THE EXISTING VEGETATION BE DESTROYED, REMOVED, OR DISTURBED MORE THAN FOURTEEN (14) DAYS PRIOR TO THE INITIATION OF IMPROVEMENTS.
- 20. TEMPORARY CONSTRUCTION ENTRANCES WILL BE CONSTRUCTED AT ALL LOCATIONS WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES THE SITE VIA EXISTING HARD SURFACES. CONTRACTOR TO DETERMINE APPROPRIATE LOCATIONS BASED ON HAULING AND STAGING PLAN.
- 21. GRAVELED ROADS, ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH, AND VEHICLE WASH DOWN FACILITIES IF NECESSARY, MUST BE PROVIDED TO PREVENT THE DEPOSIT OF SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS ANY SOIL REACHING PUBLIC OR PRIVATE ROADWAY MUST BE REMOVED IMMEDIATELY.
- 22. STOCK PILES OF SOIL MUST NOT BE LOCATED IN FLOOD PLAINS, RIPARIAN AREAS (VEGETATED FLOOD PLAINS), WETLANDS AND WATERS OF THE U.S. UNLESS OTHERWISE AUTHORIZED BY THE RELEVANT PERMITTING AUTHORITY. IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS, PERIMETER EROSION BARRIER MUST BE PROVIDED. IF THE STOCKPILE IS INACTIVE FOR MORE THAN 14 DAYS, SOIL STABILIZATION MUST BE PROVIDED BY THE 7TH DAY AFTER ACTIVITY HAS STOPPED.
- 23. WHEN FILLING A WETLAND ADJACENT TO A W.U.S., EROSION CONTROL MEASURES MUST BE IN PLACE SO THAT WHEN FILL MATERIAL IS PLACED, OVERLAND FLOW IS NOT ALLOWED TO ACCUMULATE SEDIMENT AND ENTER WATERS OF THE U.S.
- 24. IF THE VOLUME, VELOCITY, SEDIMENT LOAD, OR PEAK FLOW RATE OF STORMWATER RUNOFF ARE TEMPORARILY INCREASED DURING CONSTRUCTION, THEN PROPERTIES AND SPECIAL MANAGEMENT AREAS DOWNSTREAM FROM SUCH DEVELOPMENT SITES MUST BE PROTECTED FROM EROSION.

- 25. WHEN THE CONSTRUCTION IS COMPLETED, THE SITE HAS BEEN FULLY STABILIZED AND ALL DISCHARGES OF STORMWATER AUTHORIZED BY THE PERMIT HAVE BEEN ELIMINATED, THE CONTRACTOR MUST PROVIDE A LETTER TO THE OWNER OR OWNER'S REPRESENTATIVE STATING THESE FACTS.
- 26. AFTER THE SITE HAS BEEN PERMANENTLY STABILIZED AND ANY/ALL STORMWATER DISCHARGES, AUTHORIZED UNDER THE ILR10 PERMIT ARE ELIMINATED, THE OWNER WILL SUBMIT A COMPLETED NOTICE OF TERMINATION (NOT) SIGNED IN ACCORDANCE WITH PART VI.G (SIGNATORY REQUIREMENTS) OF THE ILR10 PERMIT TO IEPA.
- 27. NO SILT FENCE TO BE INSTALLED WITHIN OBJECT FREE AREAS OF ACTIVE TAXIWAYS OR RUNWAYS.
- 28. EXISTING EROSION CONTROL MEASURES IN PLACE AT THE BEGINNING ON THIS CONTRACT DONE BY OTHERS SHALL BE MAINTAINED IN AREAS NOT DISTURBED BY THE PROPOSED WORK WITHIN THESE DOCUMENTS. FOR LOCATIONS AND DESCRIPTIONS OF PREVIOUS EROSION CONTROL MEASURES DONE BY OTHERS, SEE EXISTING EROSION CONTROL SHEETS.
- 29. LOCATIONS OF SEDIMENT LOGS SHOWN ON THESE PLANS ARE APPROXIMATE. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD, BASED ON ACTUAL CONDITIONS. SEDIMENT LOGS SHALL BE INSTALLED TO ENCIRCLE ALL PROPOSED OPEN-GRATE DRAINAGE STRUCTURES UNTIL GROUND HAS BEEN STABILIZED. LOGS SHALL BE INSTALLED AT MAXIMUM 100' SPACING WITHIN ALL DITCHES OR OTHER AREAS OF CONCENTRATED FLOW, OR AS DIRECTED BY THE KDSWCD.
- 30. TEMPORARY SOIL STOCKPILE EMBANKMENT SLOPES SHALL NOT EXCEED 10 FEET IN HEIGHT WITHOUT THE PLACEMENT OF SLOPE STABILIZATION, SUCH AS TEMPORARY SEEDING OR SLOPE POLYMER EROSION CONTROL.
- 31. RESTORE ALL PROPOSED UTILITY TRENCHES NOT SHOWN WITHIN THE LIMITS OF THESE EROSION CONTROL PLANS WITH PERMANENT SEEDING OR AS DIRECTED BY THE OWNER.
- 32. CONTRACTOR SHALL INSTALL PERIMETER EROSION BARRIER AT ANY LOCATION IN WHICH SHEET FLOWS MAY RESULT IN SEDIMENT RUNOFF OUTSIDE THE LIMITS OF CONSTRUCTION ACTIVITIES. LOCATIONS SHOWN ON THESE PLANS ARE SUGGESTED. ACTUAL LOCATIONS TO BE DETERMINED IN THE FIELD BY THE ENGINEER BASED ON FIELD CONDITIONS.

STATE AND SUITE 400
SUITE 400 CHICAGO, IL 60631 PHASE II - UPGRADE WILDLIFE HAZARD FENCING ON SOUTHERN AND WESTERN BOUNDARIES ON SOUTHERN AND WEST CHICAGO, IL MONTH OR MEAN OF THE PORT (DPA)
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SUITE 400 CHICAGO, IL 60631 PHASE II - UPGRADE WILDLIFE HAZARD FENCING ON SOUTHERN AND WESTERN BOUNDARIES DUPAGE AIRPORT (DPA) WEST CHICAGO, IL DSGN TL TL TL TL TL TL TL TL TL T
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STORMWATER POLLUTION PREVENTION PLAN 4
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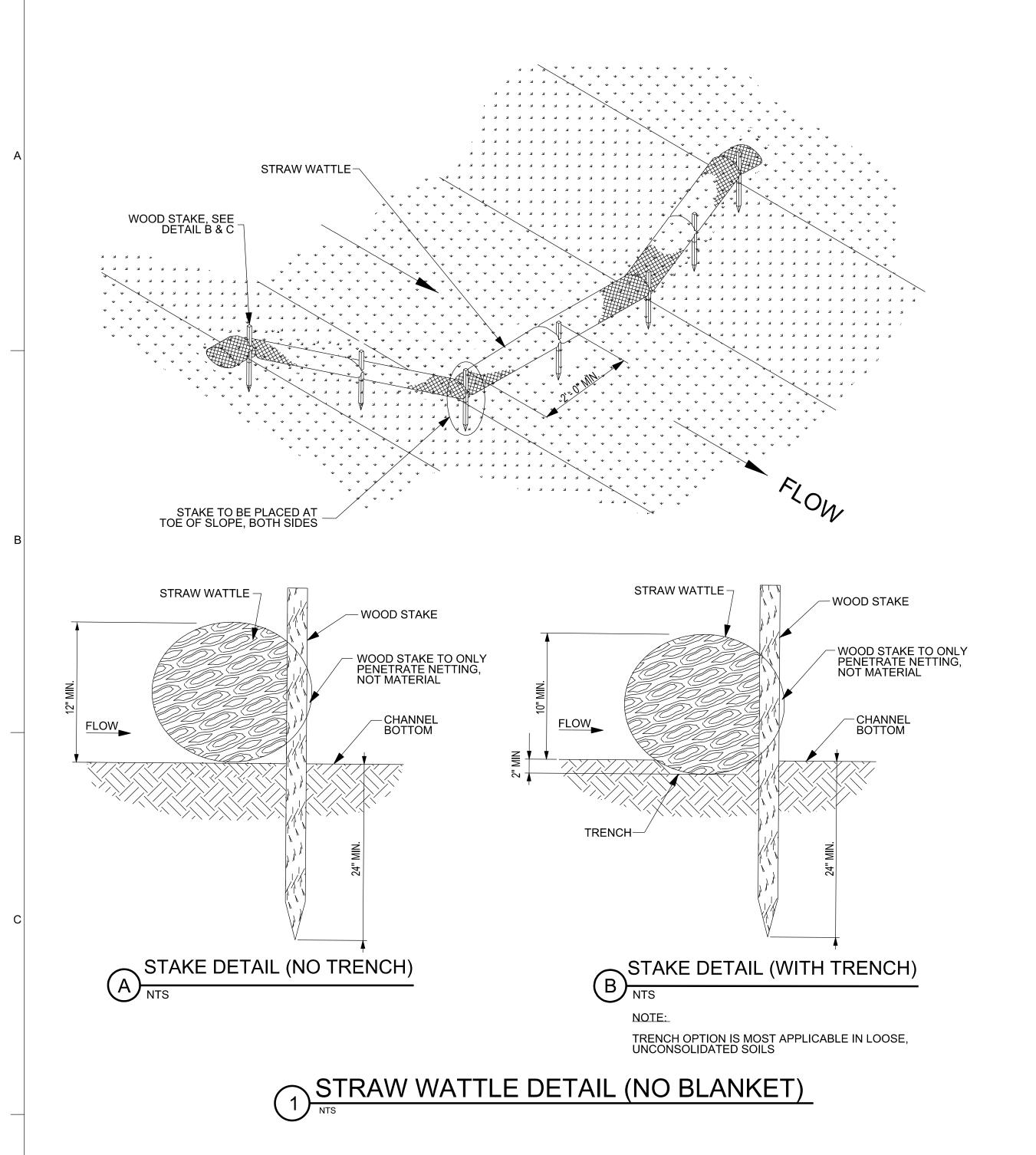
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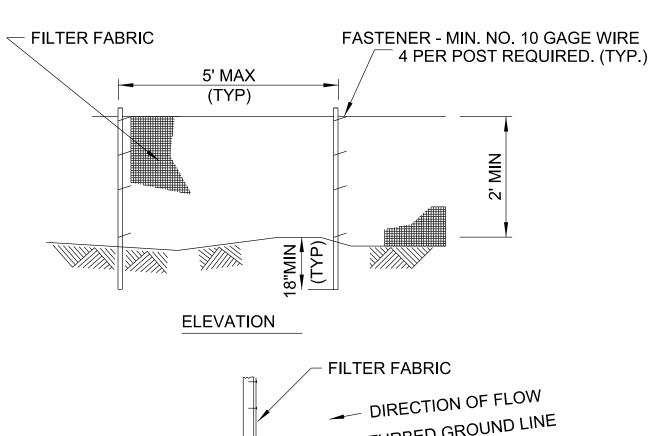
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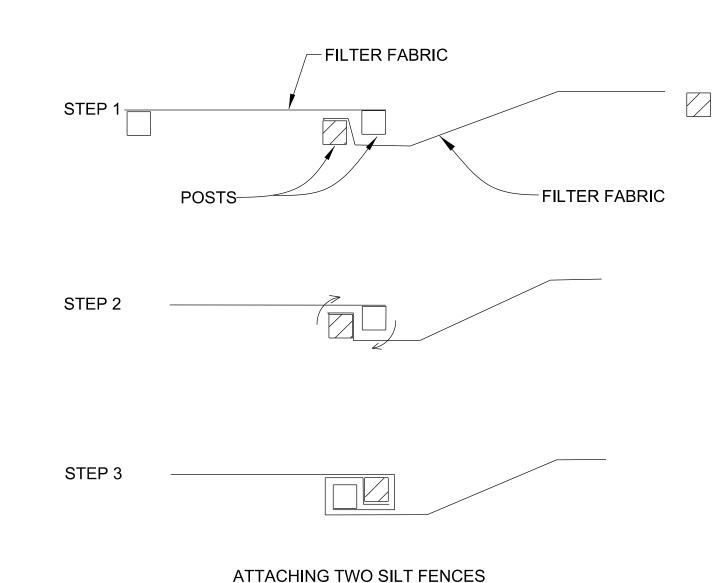
FILTER FABRIC DIRECTION OF FLOW UNDISTURBED GROUND LINE COMPACTED BACKFILL 6" MIN FABRIC ANCHOR DETAIL

NOTES:

- 1. TEMPORARY SEDIMENT FENCE MUST BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. THEY MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.
- 2. FILTER FABRIC MUST MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION P-629 GEOTEXTILE.

ADDITIONAL INFORMATION

3. FENCE POSTS MUST BE EITHER STANDARD STEEL POST OR WOOD POST WITH A MINIMUM CROSS-SECTIONAL AREA OF 3.0 SQ. IN.



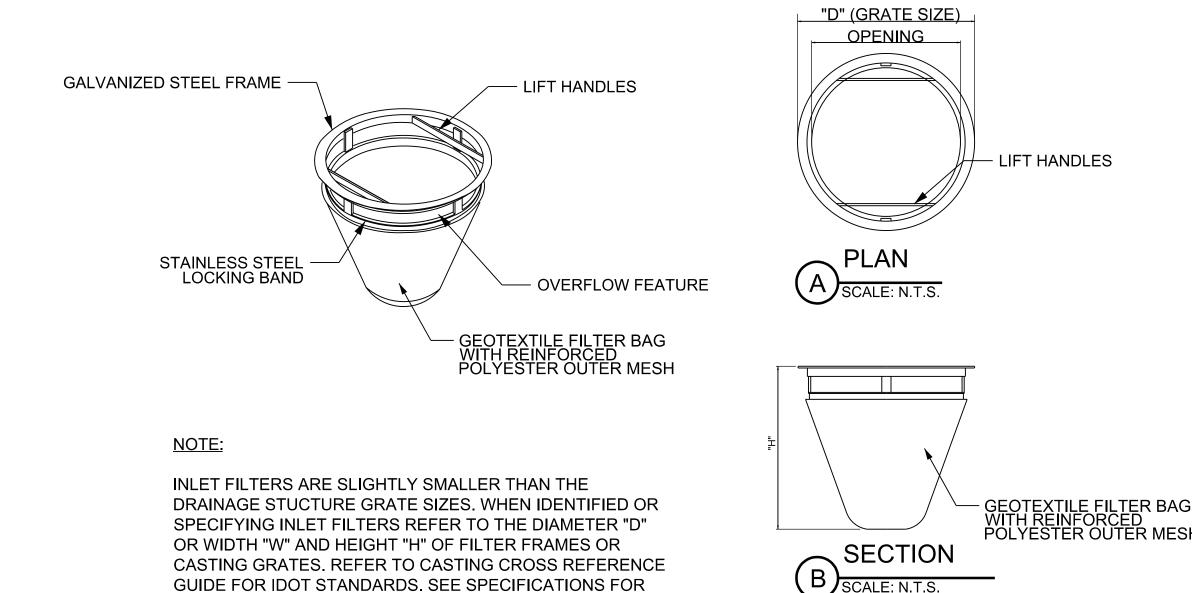
NOTES:

1. PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE.

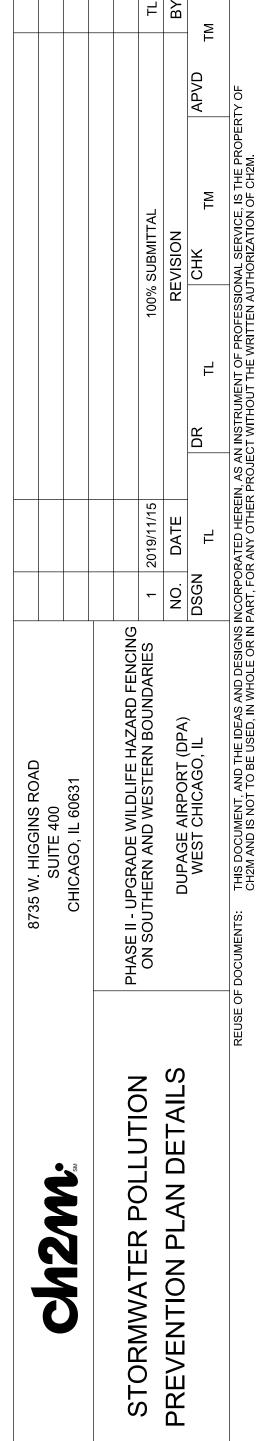
2. ROTATE BOTH POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL.

3. DRIVE BOTH POSTS A MINIMUM OF 18 INCHES INTO THE GROUND AND BURY THE FLAP.









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DWG

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

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