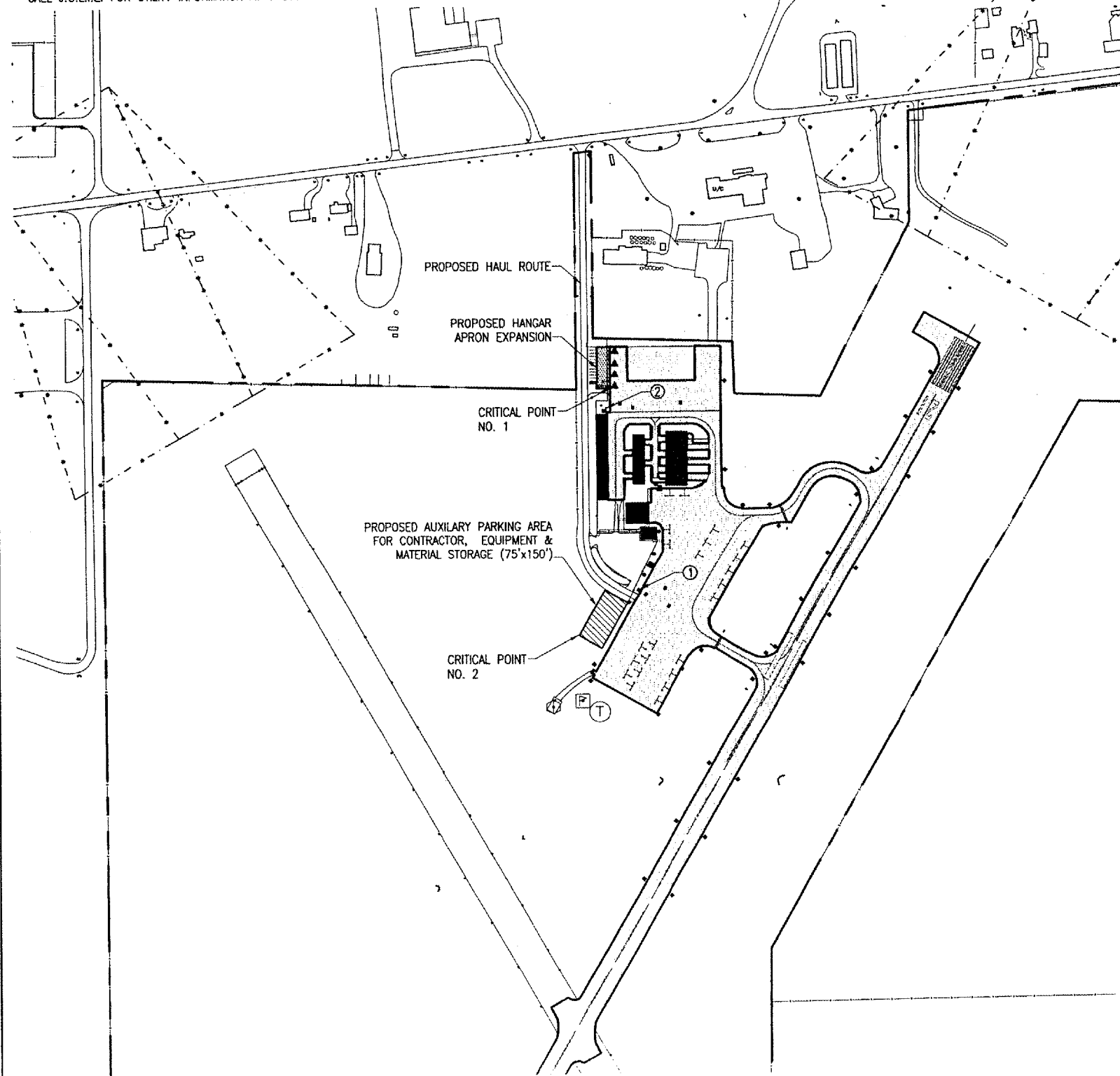


THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND 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 J.U.L.I.E. FOR UTILITY INFORMATION AT 1-800-892-0123.

BENCHMARK DATA		
No.	DESCRIPTION	ELEVATION
1	CHISELED SQUARE, N.W. CORNER OF INLET SOUTH OF EMPLOYEE PARKING LOT	467.91
2	CHISELED SQUARE, N.E. CORNER OF ELECTRIC HAND HOLE	469.99



SCOPE OF WORK

THIS PROJECT CONSISTS OF EXPANDING THE HANGAR PAVEMENT 36'x120' WITH A DEPTH OF 6". ASSOCIATED WORK ITEMS CONSISTS OF EXCAVATING & GRADING EARTH, REMOVING PAVED DITCH, RELOCATING PRECAST END SECTIONS WITH INSTALLATION OF NEW DRAINAGE PIPES AND INLETS, CRUSHED AGGREGATE BASE COURSE, CONCRETE PAVING, RELOCATING EXISTING FENCE AND GATES WITH A "NEW" GATE OPERATOR, AND SEEDING & MULCHING.

AIRPORT SECURITY NOTE

AIRPORT SECURITY WILL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR WILL CLOSE AND LOCK THE EXISTING GATE IN THE HAUL ROUTE AT THE END OF EACH WORKING DAY.

UTILITY NOTE

THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND AGENCIES WHICH HAVE LINES OR CONDUITS IN THE PROPOSED WORK AREA. ALL LINES AND CONDUITS SHALL BE LOCATED AND IDENTIFIED FOR DEPTH BEFORE ANY EXCAVATION BEGINS. THE CONTRACTOR WILL CALL J.U.L.I.E. (1-800-892-0123) TO ACCOMPLISH THE ABOVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY ALL UNDERGROUND NON-JULIE UTILITIES LOCATED WITHIN THE PROPOSED CONSTRUCTION LIMITS. THESE UNDERGROUND IMPROVEMENTS WILL BE LOCATED AT THE CONTRACTOR'S OWN EXPENSE PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.

HEIGHT OF CONSTRUCTION EQUIPMENT

THE MAXIMUM ANTICIPATED HEIGHT OF THE CONSTRUCTION EQUIPMENT WILL BE 25 FEET. THE TALLEST EQUIPMENT IS EXPECTED TO BE A DUMP TRUCK.

HAUL ROUTE AND EQUIPMENT PARKING

THE CONTRACTOR WILL USE THE IMMEDIATE AREA OF THE PROPOSED CONSTRUCTION AS HIS EQUIPMENT PARKING AREA. IF HE NEEDS ADDITIONAL SPACE, HE WILL USE THE AUXILIARY PARKING AREA SHOWN ON THIS SHEET. THE PROPOSED AUXILIARY PARKING AREA WILL BE 75'x150'. THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN THIS AREA THROUGHOUT THE COURSE OF THE PROJECT. AT THE CONCLUSION OF THE PROJECT THE CONTRACTOR WILL GRADE, FERTILIZE, SEED AND MULCH THE AUXILIARY PARKING AREA. RESTORATION OF THIS AREA WILL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

THE CONTRACTOR WILL BE ALLOWED TO USE THE EXISTING AIRPORT ENTRANCE ROAD AS HIS PROPOSED HAUL ROUTE. THE CONTRACTOR AND THE RESIDENT ENGINEER WILL WALK THE ENTRANCE ROAD PRIOR TO STARTING CONSTRUCTION AND WILL NOTE ANY PAVEMENT AREAS THAT ARE QUESTIONABLE. THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN THE ENTRANCE ROAD THROUGHOUT THE DURATION OF THIS PROJECT. AT THE CONCLUSION OF THE PROJECT, THE CONTRACTOR WILL RESTORE THE ENTRANCE ROAD TO ITS' ORIGINAL STATE AT HIS OWN EXPENSE.

CONTRACTOR EMPLOYEE PARKING

THE CONTRACTOR'S EMPLOYEES WILL BE ALLOWED TO PARK THEIR PERSONAL VEHICLES IN THE PARKING LOT ADJACENT TO THE PROPOSED WORK AREA. WHEN CONSTRUCTION ACTIVITIES DICTATE THESE VEHICLES BE PARKED SOMEWHERE ELSE, THEN THEY WILL BE PARKED IN THE MAIN AUTO PARKING LOT.

CONTRACTOR RESPONSIBILITIES

THE CONTRACTOR AND HIS EMPLOYEES WILL BE RESTRICTED TO THE WORK AREA AND ALL OTHER AREAS OF THE AIRPORT ARE "OFF LIMITS" TO THEM.

CERTIFIED PAYROLLS

THE RESIDENT ENGINEER CANNOT FORWARD CONSTRUCTION REPORTS TO THE ILLINOIS DIVISION OF AERONAUTICS FOR PROCESSING UNTIL ALL CERTIFIED PAYROLLS FOR THE PERIOD HAVE BEEN RECEIVED.

MATERIAL CERTIFICATION

COMPLETED WORK CANNOT BE PLACED ON A CONSTRUCTION REPORT UNTIL ALL MATERIAL CERTIFICATIONS FOR THAT PAY ITEM HAVE BEEN RECEIVED, REVIEWED AND ACCEPTED BY THE RESIDENT ENGINEER.

EROSION CONTROL

THIS PROJECT WILL DISTURB LESS THAN 1 ACRE OF LAND, THEREFORE NO N.P.D.E.S. PERMIT WILL BE REQUIRED.

150-ENGINEER'S FIELD OFFICE

THE PROPOSED ENGINEER'S FIELD OFFICE WILL BE FURNISHED, MAINTAINED, AND REMOVED IN ACCORDANCE WITH ITEM AR150510 "ENGINEER'S FIELD OFFICE" AS STATED ON PAGE 168 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THE LOCATION OF THE PROPOSED ENGINEER'S FIELD OFFICE WILL BE DETERMINED AT THE PRE-CONSTRUCTION MEETING.

THE ENGINEERING FIRM WILL MAKE PAYMENT FOR ALL LONG DISTANCE TELEPHONE CALLS IN EXCESS OF ONE HUNDRED DOLLARS (\$100.00) PER MONTH.

THE CONTRACTOR WILL FURNISH A CELLULAR PHONE TO THE RESIDENT ENGINEER FOR HIS EXCLUSIVE USE FOR THE DURATION OF THIS PROJECT. THE RESIDENT ENGINEER WILL USE THIS PHONE FOR PROJECT BUSINESS ONLY. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL CHARGES ASSOCIATED WITH THIS CELLULAR PHONE.

THE PROPOSED ENGINEER'S FIELD OFFICE WILL BE PAID FOR UNDER ITEM: AR150510 "ENGINEER'S FIELD OFFICE" - PER I.S.

PROPOSED SAFETY PLAN

GENERAL - THE FLORA AIRPORT IS COMPRISED OF TWO RUNWAYS: A SOD RUNWAY 15/33 AND A PAVED RUNWAY 3/21. THE PROPOSED CONSTRUCTION WILL NOT NECESSITATE IN CLOSING ANY RUNWAYS.

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

RADIO CONTROL - THE CONTRACTOR WILL BE REQUIRED TO BE IN TWO-WAY RADIO CONTACT (122.70 MHz.) WITH THE AIRPORT UNICOM. THIS WILL KEEP THE CONTRACTOR IN CONSTANT CONTACT WITH THE FLORA AIRPORT AND ENABLE THE AIRPORT TO IMMEDIATELY CONTACT THE CONTRACTOR IN CASE OF AN AERONAUTIC EMERGENCY THAT WOULD REQUIRE ACTION BY THE CONTRACTOR AND/OR HIS PERSONNEL.

BARRICADES AND TRAFFIC CONES

IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PLACE AND MAINTAIN BARRICADES AND TRAFFIC CONES AS DIRECTED BY THE AIRPORT MANAGER. THE BARRICADES WILL BE EQUIPPED WITH RED FLASHING OR RED STEADY-BURN LIGHTS AND 20" SQUARE ORANGE FLAGS. THE BARRICADES, THEIR MAINTENANCE, PLACEMENT AND REMOVAL WILL BE CONSIDERED AS AN INCIDENTAL ITEM TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

J.U.L.I.E. INFORMATION

COUNTY: CLAY
 CITY: FLORA
 TOWNSHIP: STANFORD
 SECTION No.: 29
 ADDRESS: FLORA AIRPORT RR#1 FLORA, IL 62839

CRITICAL POINT DATA

NUMBER 1
 LATITUDE: 38° 40' 11.34"
 LONGITUDE: 88° 27' 07.60"
 ELEVATION: 469.81 M.S.L.
 (S.E. CORNER OF PROPOSED PAVEMENT)

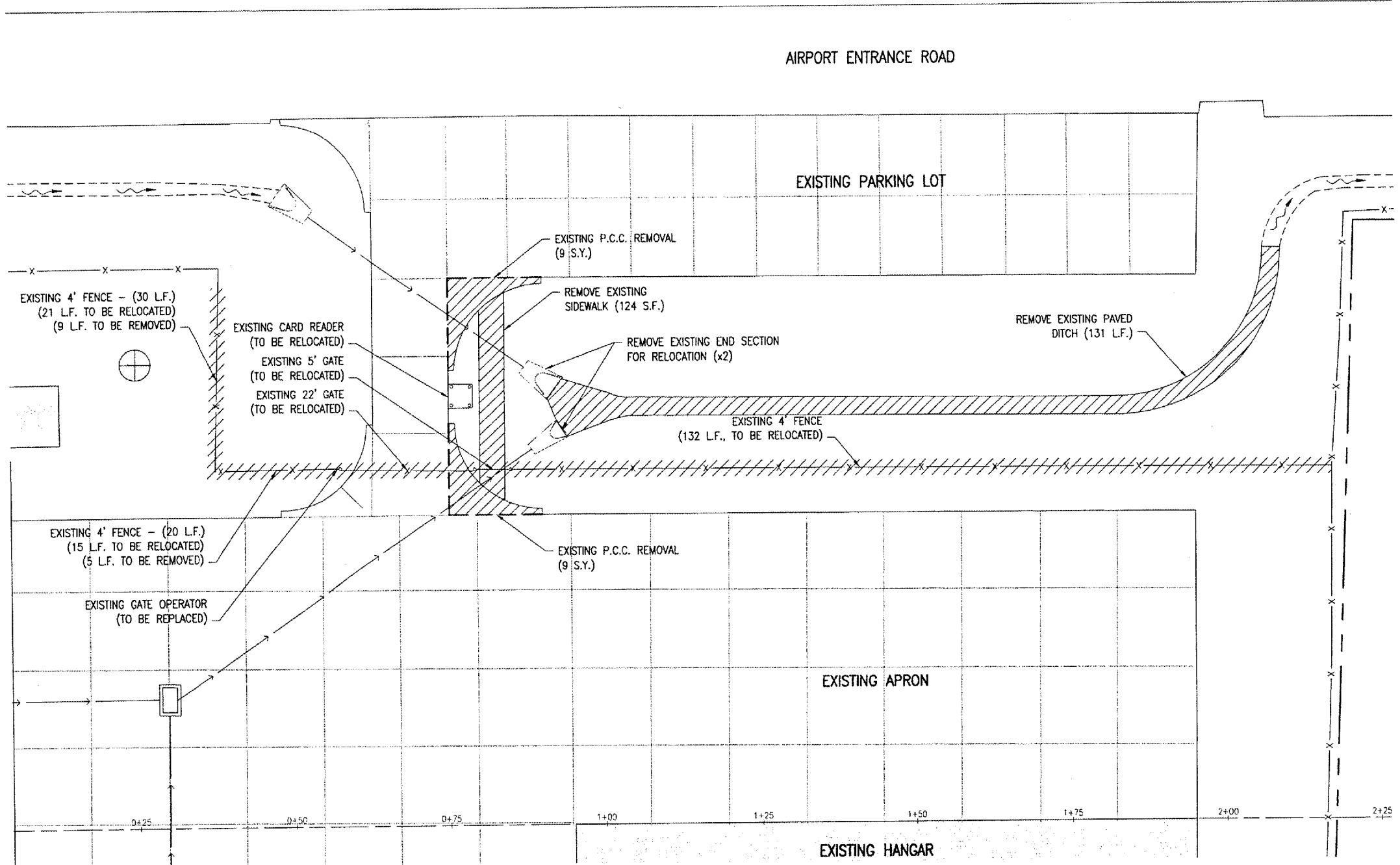
NUMBER 2
 LATITUDE: 38° 40' 04.114"
 LONGITUDE: 88° 27' 08.732"
 ELEVATION: 464.4 M.S.L.
 (S.W. CORNER OF AUX. PARKING AREA)

LEGEND

- [Solid Line] EXISTING IMPROVEMENTS
- [Dashed Line] PROPOSED IMPROVEMENTS
- [Solid Box] EXISTING BUILDINGS
- [Hatched Box] PROPOSED HAUL ROUTE AND EQUIPMENT PARKING AREA
- [Circle with 1] PROPOSED BENCHMARK
- [Triangle] PROPOSED BARRICADES OR TRAFFIC CONES

0' 100' 200' 400'
 FULL SIZE SCALE: 1" = 200'
 HALF SIZE SCALE: 1" = 400'

BY	REVISION	DATE	DATE
CAH	REVISAS PER I.D.A.	4/12/08	4/12/08
<p>FLORA AIRPORT FLORA, ILLINOIS</p> <p>ILL. PROJ.: FOA-3758 A.I.P. PROJ.: 3-17-0044-B14</p>			
<p>Proj. No. 07A0122D 0800 Name: R-003SEY.DWG Scale: 1" = 500' Date: 01/16/08</p>	<p>LAYOUT: CCC 01/16/08 DRAWN: CCC 01/16/08 REVIEWED: CAH 01/25/08</p>	<p>HANSON Hanson Professional Services Inc. 635 E. Springfield Springfield, Illinois 62705-2886 Offices Nationwide</p>	
EXPAND HANGAR PAVEMENT	PROPOSED SAFETY PLAN	<p>3</p> <p>3 of 15 sheets</p>	



QUANTITIES				
ITEM No.	DESCRIPTION	UNIT	QUANTITY	AS BUILT QUANTITY
AR162900	REMOVE CLASS E FENCE	L.F.	14	
AR162960	RELOCATE CLASS E FENCE	L.F.	168	
AR162963	RELOCATE GATE 5'	EACH	1	
AR162964	RELOCATE GATE	EACH	1	
AR501690	PCC SIDEWALK REMOVAL	S.F.	124	
AR501900	REMOVE PCC PAVEMENT	S.Y.	18	
AR752960	RELOCATE END SECTION	EACH	2	
AR754910	REMOVE PAVED DITCH	L.F.	131	

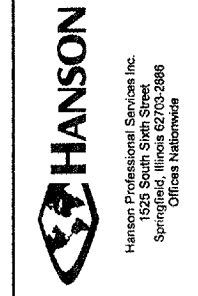
- LEGEND**
- EXISTING PAVEMENT
 - EXISTING BUILDING
 - EXISTING PROPERTY LINE
 - EXISTING R.C.C.P.
 - EXISTING CLASS E FENCE/GATE
 - EXISTING INLET
 - EXISTING BEACON
 - EXISTING END SECTION
 - EXISTING ITEMS TO BE REMOVED OR RELOCATED
 - PROPOSED SAW CUT

DATE	REVISION

FLORA AIRPORT
FLORA, ILLINOIS

A.I.P. PROJ.: 3-17-0044-814
ILL. PROJ.: FOA-3758

H&L Project No. 07A0122D_0800 Filename: R-111PRP.DWG Scale: 1" = 10' Date: 01/10/08	01/10/08 CCC 01/10/08 CCC 01/25/08 CAH
LAYOUT	CCC
DRAWN	CCC
REVIEWED	CAH



EXPAND
HANGAR PAVEMENT

PROPOSED PAVEMENT
PREPARATION PLAN

P.C.C. PAVEMENT REMOVAL

THE AREA(S) LOCATED ON THIS SHEET WILL HAVE THE EXISTING P.C.C. PAVEMENT REMOVED (FULL DEPTH) TO A SUITABLE SUBGRADE. ALL REMOVED MATERIAL WILL BE DISPOSED OF OFF THE AIRPORT SITE.

WHERE THE PROPOSED REMOVAL AREA ABUTTS THE EXISTING PAVEMENT, THE P.C.C. PAVEMENT WILL BE SAWED AS SHOWN ON THIS SHEET. THE SAWING WILL BE CONSIDERED AS AN INCIDENTAL ITEM TO THE PROPOSED P.C.C. PAVEMENT REMOVAL AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

ANY ADJACENT PAVEMENT DAMAGED BY THE P.C.C. PAVEMENT REMOVAL OPERATIONS WILL BE REPAIRED AT THE CONTRACTOR'S OWN EXPENSE.

THIS ITEM OF WORK SHALL BE PAID FOR UNDER ITEM:
AR501900 "REMOVE PCC PAVEMENT" - PER S.Y.

P.C.C. SIDEWALK REMOVAL

THE AREA LOCATED ON THIS SHEET WILL HAVE THE EXISTING P.C.C. SIDEWALK REMOVED (FULL DEPTH) TO A SUITABLE SUBGRADE. ALL REMOVED MATERIAL WILL BE DISPOSED OF OFF THE AIRPORT SITE.

THIS ITEM OF WORK SHALL BE PAID FOR UNDER ITEM:
AR501690 "PCC SIDEWALK REMOVAL" - PER S.F.

FENCE & GATE RELOCATION NOTES

THE EXISTING FENCE AND GATES TO BE RELOCATED ARE SHOWN ON THIS SHEET. THE CONTRACTOR WILL REMOVE THE GATES & FABRIC AND STORE ON SITE AT A LOCATION DESIGNATED BY THE AIRPORT MANAGER.

ADDITIONAL NOTES AND LOCATIONS FOR THE FOLLOWING ITEMS OF WORK ARE ON SHEETS 10 & 11.

THESE ITEMS OF WORK SHALL BE PAID FOR UNDER ITEMS:
AR162960 "RELOCATE CLASS E FENCE" - PER L.F.
AR162963 "RELOCATE GATE 5'" - PER EACH
AR162964 "RELOCATE GATE" - PER EACH

FENCE REMOVAL NOTES

THE EXISTING FENCE TO BE PERMANENTLY REMOVED IS SHOWN ON THIS SHEET. THE CONTRACTOR WILL REMOVE 14' FENCE AND POST AND DISPOSE OF OFF THE AIRPORT SITE UNLESS SPECIFIED BY THE AIRPORT MANAGER.

THE CONTRACTOR WILL FILL ALL HOLES (MADE FROM THE REMOVAL OF FENCE & POST) WITH EARTH MATERIAL. THE EARTH MATERIAL WILL BE OBTAINED FROM THE AIRPORT CONSTRUCTION SITE. THE EARTH MATERIAL WILL BE COMPACTED TO PREVENT FUTURE SETTLEMENT.

ALL AREAS DISTURBED BY THE PROPOSED FENCE REMOVAL WILL BE LIME FERTILIZED AND SEEDDED IN ACCORDANCE WITH ITEM 901 "SEEDING". THIS WORK WILL BE CONSIDERED AS AN INCIDENTAL ITEM TO THE PROPOSED FENCE REMOVAL AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

THIS ITEM OF WORK SHALL BE PAID FOR UNDER ITEM:
AR162900 "REMOVE CLASS E FENCE" - PER L.F.

PAVED DITCH REMOVAL

THE AREA LOCATED ON THIS SHEET WILL HAVE THE EXISTING PAVED DITCH REMOVED (FULL DEPTH) TO A SUITABLE SUBGRADE. ALL REMOVED MATERIAL WILL BE DISPOSED OF OFF THE AIRPORT SITE.

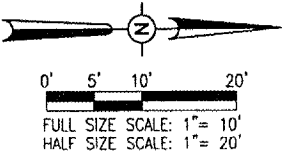
THIS ITEM OF WORK SHALL BE PAID FOR UNDER ITEM:
AR754910 "PAVED DITCH REMOVAL" - PER L.F.

END SECTION RELOCATION

THE EXISTING END SECTIONS LOCATED ON THIS SHEET ARE TO BE REMOVED AND STORED ON THE AIRPORT SITE FOR RELOCATION AS SHOWN ON SHEET 8.

ANY EXISTING R.C.C.P. PIPE DAMAGED BY THE END SECTION REMOVAL WILL BE REPLACED AT THE CONTRACTOR'S OWN EXPENSE.

THIS ITEM OF WORK SHALL BE PAID FOR UNDER ITEM:
AR752960 "RELOCATE END SECTION" - PER EACH.



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AIRPORT ENTRANCE ROAD

EXISTING PARKING LOT

PROPOSED APRON EXPANSION

EXISTING APRON

EXISTING HANGAR

QUANTITIES				
ITEM No.	DESCRIPTION	UNIT	QUANTITY	AS BUILT QUANTITY
AR152410	UNCLASSIFIED EXCAVATION	C.Y.	12	
AR152442	OFFSITE BORROW EXCAVATION	C.Y.	84	
AR209510	CRUSHED AGGREGATE BASE COURSE	TON	114	
AR501506	6" P.C.C. PAVEMENT	S.Y.	488	

COORDINATE DATA				
ID.	STATION	OFFSET	NORTHING	EASTING
A	0+25	R	729381.69	950387.35
B	0+95	R	729451.69	950386.92
C	1+95	R	729551.69	950386.31
D	2+16	R	729572.69	950386.18
1	0+75	50.0' LT.	729431.38	950337.06
2	0+75	88.4' LT.	729431.15	950298.65
3	0+90	88.4' LT.	729450.78	950298.55
4	0+90	86.0' LT.	729450.84	950300.94
5	1+95	86.0' LT.	729551.16	950300.31
6	1+95	50.0' LT.	729551.38	950336.66

LEGEND

- EXISTING PAVEMENT
- EXISTING BUILDING
- EXISTING PROPERTY LINE
- EXISTING CLASS E FENCE
- EXISTING INLET
- EXISTING BEACON
- PROPOSED P.C.C. PAVEMENT

DATE	REVISION	BY

FLORA AIRPORT
FLORA, ILLINOIS

A.I.P. PROJ.: 3-17-0044-B14

IL PROJ.: FOA-3758

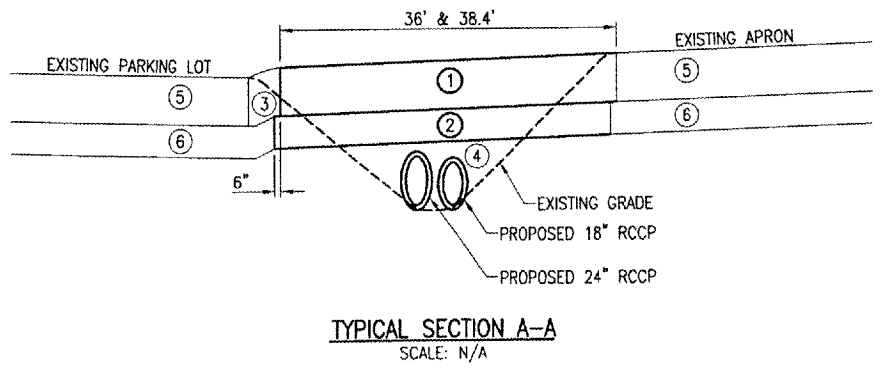
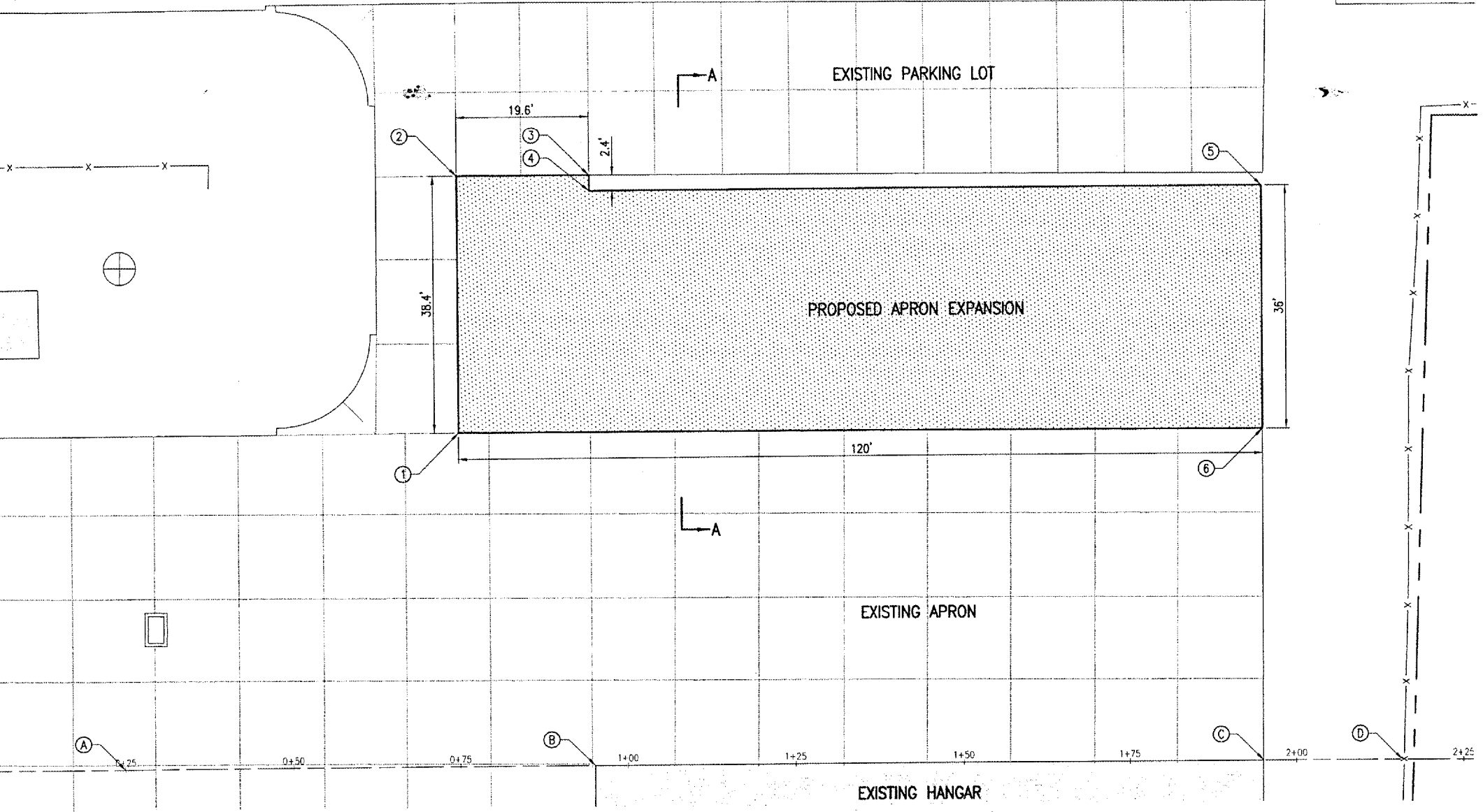
REV. Project No. 07A0122D_0800
Extrama R-121CON.DWG
Scale 1" = 10'
Date 01/10/08

LAYOUT	CCC	01/10/08
DRAWN	CCC	01/10/08
REVIEWED	CAH	01/25/08



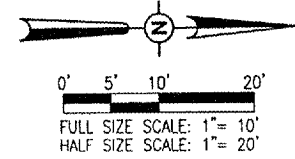
Hanson Professional Services Inc.
Springfield, Illinois 62703-2896
Offices Nationwide

EXPAND
HANGAR PAVEMENT
PROPOSED
CONSTRUCTION PLAN



TYPICAL SECTION LEGEND

- ① PROPOSED 501: P.C.C. (6" DEPTH)
- ② PROPOSED 209: AGGREGATE BASE COURSE (4" DEPTH)
- ③ PROPOSED 209: AGGREGATE BASE COURSE (6" DEPTH)
- ④ PROPOSED 152: EARTH FILL
- ⑤ EXISTING 501: P.C.C. (6" DEPTH)
- ⑥ EXISTING 209: AGGREGATE BASE COURSE (4" DEPTH)



AIRPORT ENTRANCE ROAD

EXISTING PARKING LOT

PROPOSED APRON EXPANSION

EXISTING APRON

EXISTING HANGAR

QUANTITIES				
ITEM No.	DESCRIPTION	UNIT	QUANTITY	AS BUILT QUANTITY
AR156540	RIPRAP	S.Y.	29	
AR701518	18" RCP, CLASS IV	L.F.	110.5	
AR701524	24" RCP, CLASS IV	L.F.	112	
AR751415	INLET	EACH	2	
AR752960	RELOCATE END SECTION	EACH	(SHEET 4)	

LEGEND

- EXISTING PAVEMENT
- EXISTING BUILDING
- EXISTING PROPERTY LINE
- EXISTING CLASS E FENCE
- EXISTING R.C.C.P.
- EXISTING DRAINAGE DITCH
- EXISTING INLET
- EXISTING END SECTION
- EXISTING AIRPORT ROTATING BEACON
- PROPOSED P.C.C. PAVEMENT
- PROPOSED R.C.C.P.
- PROPOSED INLET
- PROPOSED RIPRAP
- RELOCATED END SECTION

INLET NOTES

INLET TO BE CONSTRUCTED OF STRUCTURAL P.C. CONCRETE. THE CONTRACT UNIT PRICE PER INLET SHALL INCLUDE THE FRAME, GRATE AND STEPS IN PLACE AND COMPLETE PER UNIT.

1/2" CHAMFER TO BE USED ON ALL EXPOSED CORNERS OF INLETS. BARS TO BE INSTALLED 2" FROM FACE OF WALLS.

THE FRAME AND GRATE SHALL BE NEENAH R-3475-E WITH ANCHOR LUGS (GRATE TYPE C), OR DEETER 2425-E.

INLET STEPS SHALL BE NEENAH R-1980-1. 12" TO 15" C.C. STEPS TO BE INSTALLED WHEN Y IS GREATER THAN 5'. THE COST OF THE STEPS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR EACH INLET.

INSTALL 3/4" EXPANSION JOINT MATERIAL ADJACENT TO THE INLET WITH A DETAIL D JOINT (SEE SHEET 9) WHEN THE PCC PAVEMENT IS ADJACENT TO THE INLET.

156540-RIPRAP NOTES

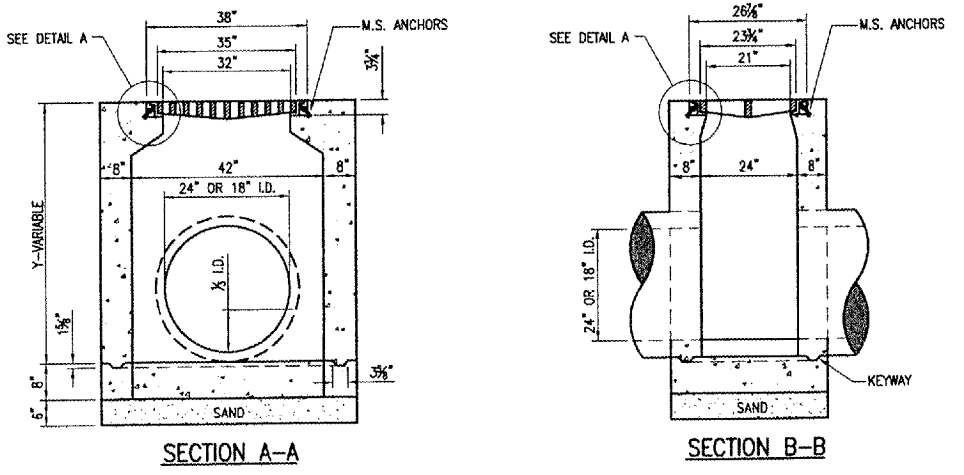
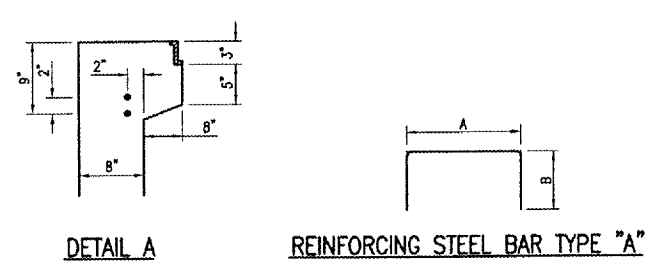
THE PROPOSED RIPRAP SHALL BE PLACED IN ACCORDANCE WITH ITEM AR156540 "RIPRAP" AS STATED ON PAGE 182 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THE PROPOSED RIPRAP WILL BE GRADATION No. 3 AND PLACED TO THE DIMENSIONS AS SHOWN ON THIS SHEET AND IN ACCORDANCE WITH THE SPECIAL PROVISIONS.

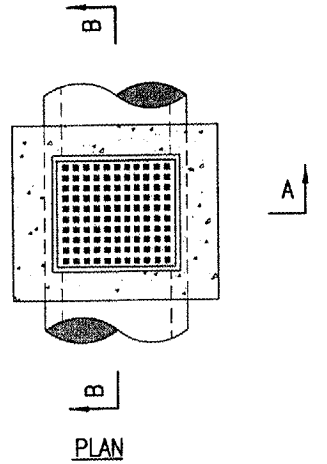
A FILTER FABRIC WILL BE REQUIRED UNDER THE STONE RIPRAP. THE FILTER FABRIC MATERIAL WILL BE IN ACCORDANCE WITH THE REQUIREMENTS AS STATED ON PAGE 183 FOR A GRADATION 4 & 5 RIPRAP STONE. THE FILTER FABRIC WILL BE CONSIDERED AS AN INCIDENTAL ITEM TO THE RIPRAP AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

THE PROPOSED RIPRAP WILL BE PAID FOR UNDER ITEM: AR156540 "RIPRAP" - PER S.Y.

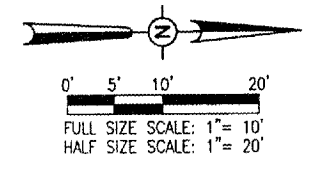
REINFORCING BARS SCHEDULE					
TYPE	QUANTITY PER INLET	DIMENSIONS		SIZE	APPROX. WT. OF BARS IN INLET
		A	B		
A	2	3'-4"	2'-4"	#5	16.7



INLET DETAILS
"NOT TO SCALE"



PLAN



DATE _____ BY _____

REVISION _____

FLORA AIRPORT
FLORA, ILLINOIS

FILE PROJECT NO. 07A0122D_0800
DRAWING FILENAME R-131DRN.DWG
SCALE 1" = 10'
DATE 01/10/08

LAYOUT	CCC	01/10/08
DRAWN	CCC	01/10/08
REVIEWED	CAH	01/25/08

ILL. PROJ.: FOA-3758 A.I.P. PROJ.: 3-17-0044-B14

HANSON
Hanson Professional Services Inc.
1526 South Sixth Street
Springfield, Illinois 62703-2886
Chicago, Illinois 60608

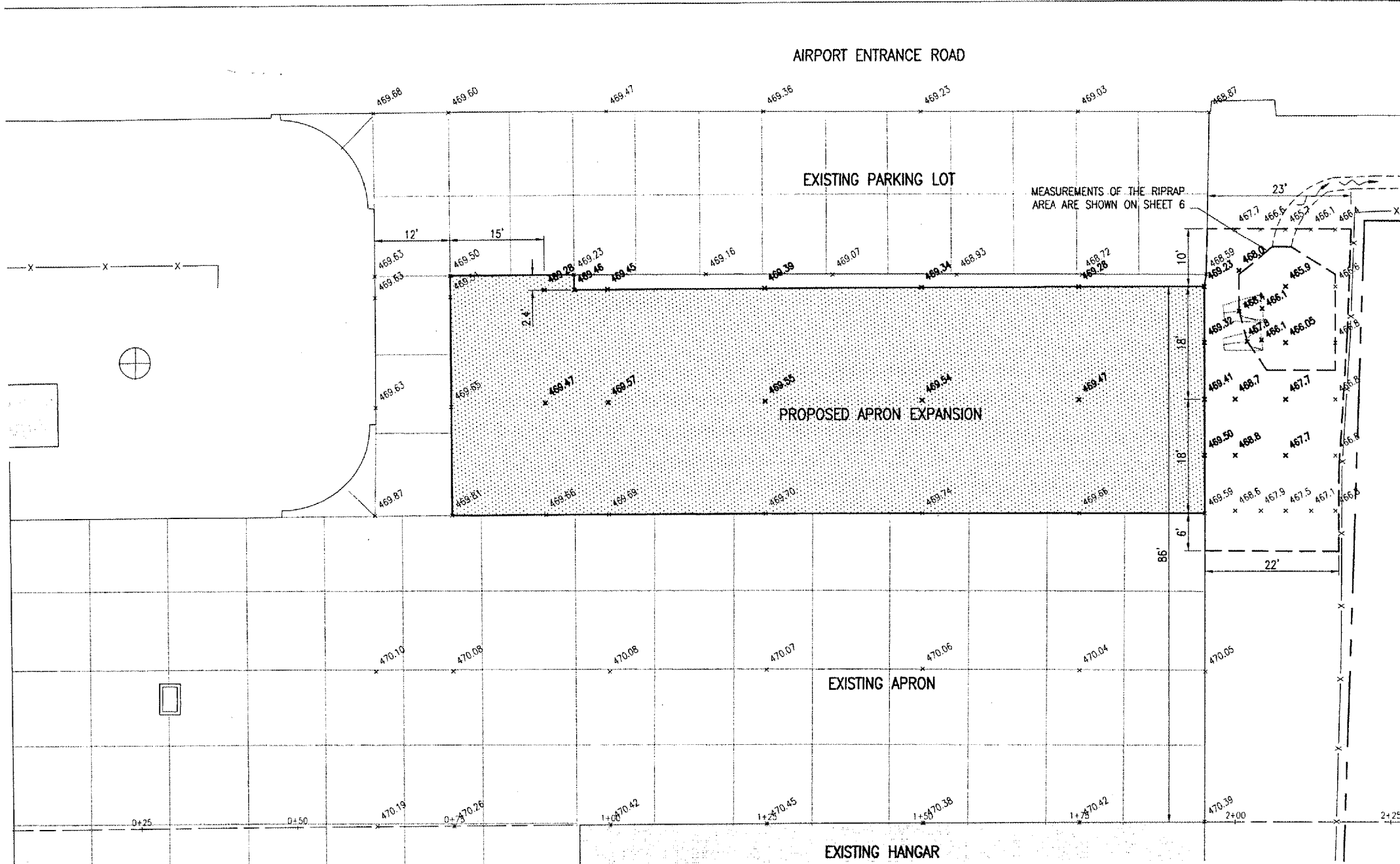
EXPAND HANGAR PAVEMENT
PROPOSED DRAINAGE PLAN

6 of 15 sheets

MAR 12, 2008 8:06 AM HAGL000382
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QUANTITIES				
ITEM No.	DESCRIPTION	UNIT	QUANTITY	AS BUILT QUANTITY
AR901510	SEEDING	ACRE	0.2	
AR908510	MULCHING	ACRE	0.2	

- LEGEND**
- EXISTING PAVEMENT
 - EXISTING BUILDING
 - EXISTING PROPERTY LINE
 - EXISTING DRAINAGE DITCH
 - EXISTING CLASS E FENCE
 - EXISTING INLET
 - EXISTING AIRPORT ROTATING BEACON
 - EXISTING GRADE
 - PROPOSED GRADE
 - PROPOSED P.C.C. PAVEMENT
 - PROPOSED END SECTION
 - PROPOSED SEEDING & MULCHING LIMITS



901 SEEDING NOTES

THE PROPOSED SEEDING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ITEM 901 "SEEDING" AS STATED ON PAGE 120 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

ALL DISTURBED AREAS LOCATED WITHIN THE PROPOSED GRADING AND SEEDING LIMITS WILL BE SEEDDED IN ACCORDANCE WITH THE ABOVE NOTED SPECIFICATION. ALL AREAS OUTSIDE THE DESIGNATED GRADING AND SEEDING LIMITS WILL ALSO BE SEEDDED BUT AT THE CONTRACTOR'S OWN EXPENSE.

901-3.4 MAINTENANCE OF SEEDDED AREAS. DELETE THE SECOND PARAGRAPH OF THIS SECTION AND ADD THE FOLLOWING:

"THE CONTRACTOR WILL BE REQUIRED TO ESTABLISH A GOOD STAND OF GRASS OF UNIFORM COLOR AND DENSITY TO THE SATISFACTION OF THE RESIDENT ENGINEER. IF AT THE TIME WHEN THE CONTRACT HAS BEEN OTHERWISE COMPLETED, IT IS NOT POSSIBLE TO MAKE AN ADEQUATE DETERMINATION OF COLOR, DENSITY, AND UNIFORMITY OF SUCH STAND OF GRASS, THE ITEM OF WORK WILL BE REVIEWED AT A LATER DATE DETERMINED BY THE ILLINOIS DIVISION OF AERONAUTICS."

DATE SEEDING COMPLETED _____

THE PROPOSED SEEDING WILL BE PAID FOR UNDER ITEMS:
AR901510 "SEEDING" - PER ACRE

908 MULCHING NOTES

THE PROPOSED MULCHING SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ITEM 908 "MULCHING" AS STATED ON PAGE 127 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THIS ITEM SHALL CONSIST OF THE FURNISHING, TRANSPORTING, AND PLACING MULCH OVER THE SEEDDED AREA. DISTURBED AREAS OUTSIDE THE GRADING LIMITS SHALL ALSO BE MULCHED AND PARTICIPATION WILL BE THE SAME AS FOR SEEDDED AREAS.

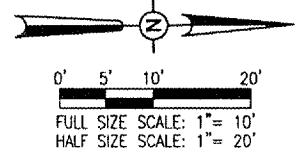
908-2.1 MULCH MATERIAL: THE CONTRACTOR MAY EITHER FURNISH STRAW OR HYDROMULCH AS THE TYPE OF MULCH MATERIAL TO BE USED ON THIS PROJECT.

908-3.1 MULCHING: THE HYDRAULIC MULCH SHALL BE APPLIED AS A SLURRY OF 2,500 POUNDS OF MULCH AND NOT LESS THAN 2,500 GALLONS OF WATER PER ACRE.

908-3.4 STRUCTURE CLEANING: AFTER THE PROPOSED MULCH HAS BEEN APPLIED, THE CONTRACTOR WILL CLEAN THE MULCH OFF ALL STRUCTURES (DRAINAGE, ELECTRICAL, LIGHTS, ETC.).

DATE MULCHING COMPLETED _____

THE PROPOSED MULCHING WILL BE PAID FOR UNDER ITEMS:
AR908510 "MULCHING" - PER ACRE

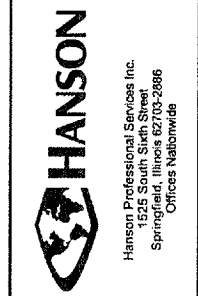


BY	REVISION	DATE

FLORA AIRPORT
FLORA, ILLINOIS

A.I.P. PROJ.: 3-17-0044-B14
IL PROJ.: FOA-3768

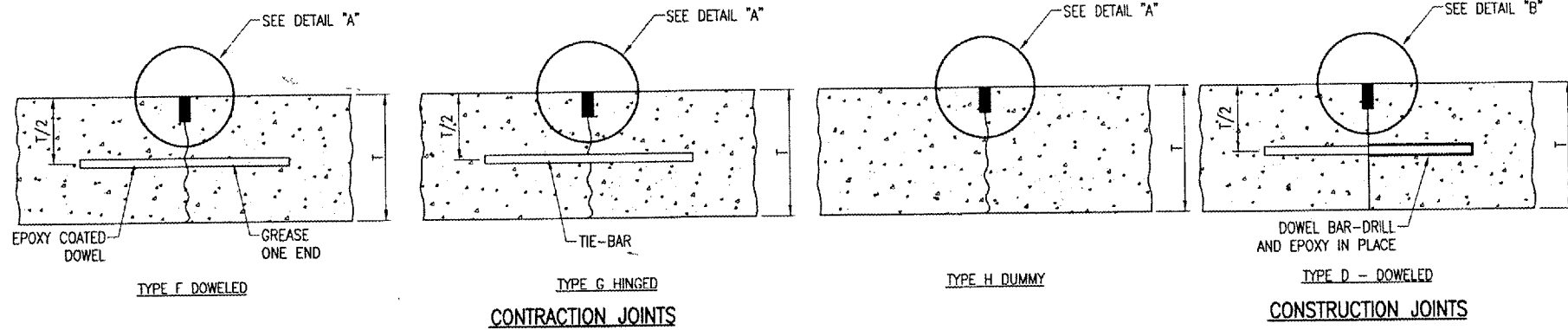
Project No. 07A0122D_0800	CCC	12/24/07
Filename R-191STK.DWG	CCC	12/24/07
Scale 1" = 10'	CAH	01/25/08
Date 01/15/08		
LAYOUT		
DRAWN		
REVIEWED		



EXPAND
HANGAR PAVEMENT

PROPOSED STAKING PLAN

MAR 12, 2008 8:06 AM HAGL000382
I:\AIRPORTS\FLORA\07A0122\CAD\SHEETS\R-191STK.DWG - Layout1



JOINTING NOTES

ALL EXPOSED JOINT EDGES SHALL BE EDGED WITH AN APPROVED TOOL HAVING A RADIUS OF 1/2" OR STONED TO PRODUCE THE 1/8" CHAMFER.

ALL LONGITUDINAL AND TRANSVERSE CONTRACTION AND CONSTRUCTION JOINTS SHALL BE SAWS.

ALL DOWEL BARS SHALL BE SECURELY HELD IN PLACE BY MEANS OF A DOWEL BAR ASSEMBLY WHICH WILL INSURE THAT THEY WILL REMAIN PARALLEL TO THE SURFACE OF THE PAVEMENT AND TO THE CENTERLINES OF THE PAVEMENT LANES. THE DOWEL BAR ASSEMBLIES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. DOWELS FOR THE 6" PAVEMENT SHALL BE 3/4" DIA., 18" LENGTH AND 12" SPACING.

ALL TIE-BARS SHALL BE SECURELY HELD IN PLACE BY SUPPORT PINS OR OTHER METHODS TO PREVENT SHIFTING DURING AND AFTER CONCRETE PLACEMENT. SUPPORT PINS SHALL BE OF SUFFICIENT LENGTH TO PENETRATE AT LEAST 6" INTO THE SUBGRADE.

ALL TIE-BARS SHALL BE PLACED AT A POINT NOT EXCEEDING 15" OR CLOSER THAN 6" FROM A TRANSVERSE, CONTRACTION, EXPANSION, OR CONSTRUCTION JOINT AND SPACED 30" ON CENTERS AND SHALL BE No. 5 DEFORMED BARS, 30" IN LENGTH.

DOWELS IN TRANSVERSE, CONTRACTION, AND CONSTRUCTION JOINTS SHALL BE EPOXY COATED AND HALF THE LENGTH GREASED WITH A HEAVY GREASE.

ALLOWABLE TOLERANCES FOR GROOVE DEPTH WILL BE +1/8" FOR CONSTRUCTION JOINTS AND +1/4" FOR CONTRACTION JOINTS.

DOWELS LOCATED IN THE CONSTRUCTION JOINTS WILL BE DRILLED AND EPOXY IN PLACE. THE EPOXY MATERIAL MUST BE APPROVED BY THE ILLINOIS DIVISION OF AERONAUTICS

THE COST OF ALL DOWEL BARS, TIE-BARS, SAWING AND SEALING SHALL BE INCLUDED IN THE COST OF THE P.C.C. PAVEMENT.

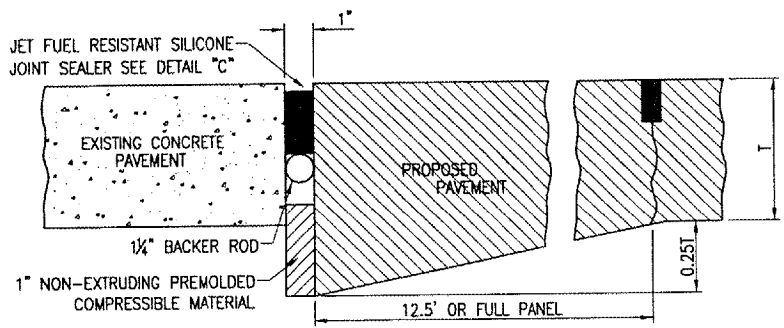
PRIOR TO PLACING ADJACENT PAVEMENT SECTIONS, THE VERTICAL EDGE SHALL BE CHECKED FOR TRUENESS IF THE FACE IS BURRED OR IRREGULAR, THE CONTRACTOR SHALL GRIND, STONE OR SAW THE FACE A MINIMUM OF 2" IN DEPTH TO PRODUCE A SMOOTH AND STRAIGHT EDGE.

WHEN CONSTRUCTING "FILL-IN" PAVEMENT LANES THE CONTRACTOR SHALL USE BELTING OR OTHER PROTECTIVE MATERIAL FOR THE PAVING MACHINE TO TRAVEL ON AND WILL ROPE THE TRANSVERSE JOINTS.

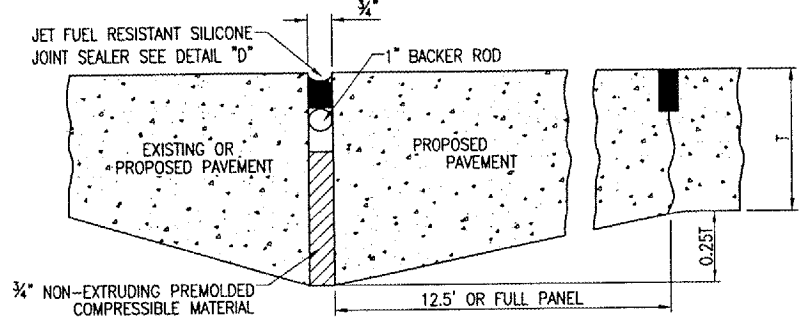
JOINT SEALANT SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS ITEM 501-2.5.

CURING COMPOUND WILL BE AS SPECIFIED IN THE SPECIFICATIONS, ITEM 501-3.17 AND SHALL BE APPROVED PRIOR TO THE PAVING OPERATION BY THE ENGINEER.

ALL NON-ALIGNED EDGES WILL BE SAWS FULL DEPTH.

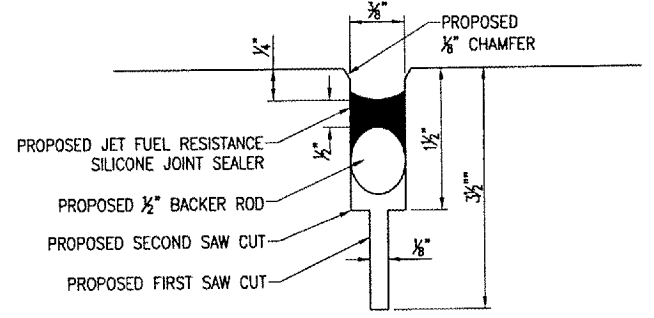


TYPE-C THICKENED EDGE

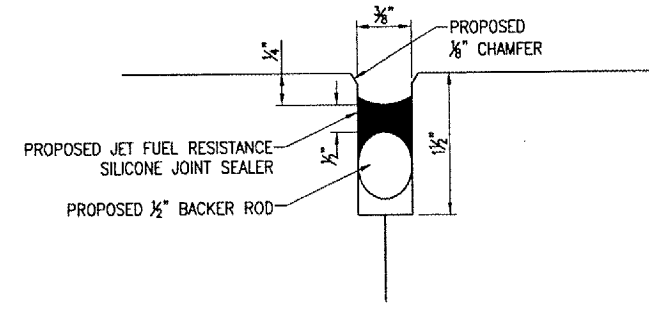


TYPE-E THICKENED EDGE EXPANSION JOINT

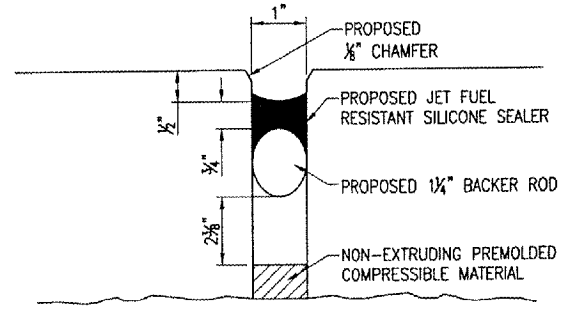
EXPANSION JOINTS



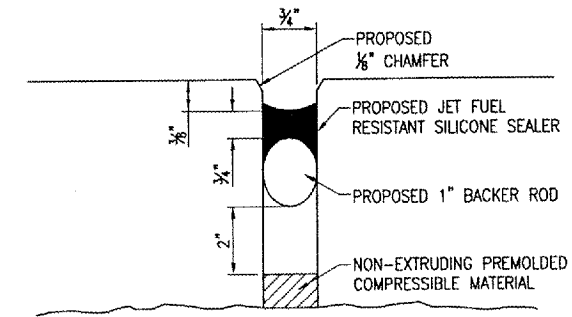
DETAIL "A"
"NOT TO SCALE"



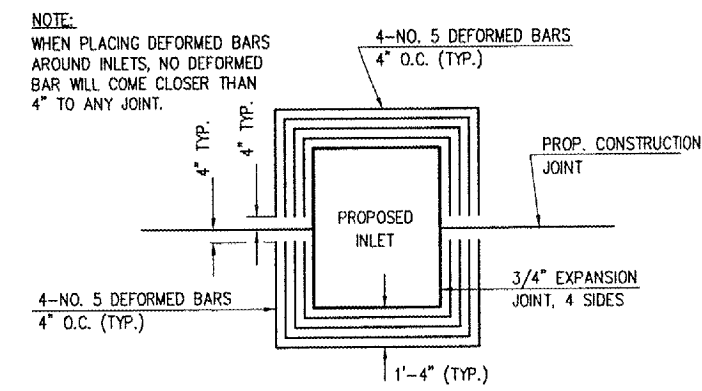
DETAIL "B"
"NOT TO SCALE"



DETAIL "C"
"NOT TO SCALE"



DETAIL "D"
"NOT TO SCALE"



NOTE:
WHEN PLACING DEFORMED BARS AROUND INLETS, NO DEFORMED BAR WILL COME CLOSER THAN 4" TO ANY JOINT.

PROPOSED INLET DETAIL
"NOT TO SCALE"

BY	
REVISION	
DATE	

FLORA AIRPORT
FLORA, ILLINOIS

IL PROJ.: FOA-3758 A.I.P. PROJ.: 3-17-0044-B14

REV. DATED	07/01/22D. 0800
FILENAME	R-16 JNT.DWG
SCALE	N/A
DATE	12/21/07
LAYOUT	CCC 12/21/07
DRAWN	CCC 12/21/07
REVIEWED	CAH 01/25/08



Hanson Professional Services Inc.
1525 South Shaw Street
Springfield, IL 62766
Offices Nationwide

EXPAND
HANGAR PAVEMENT
PROPOSED JOINTING DETAILS

MAR 12, 2008 8:06 AM HAGL000362
I:\AIRPORTS\FLORA\07A0122\CAU\SHEETS\R-16 JNT.DWG - JOINTING DETAILS

AIRPORT ENTRANCE ROAD

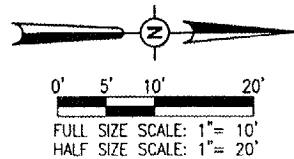
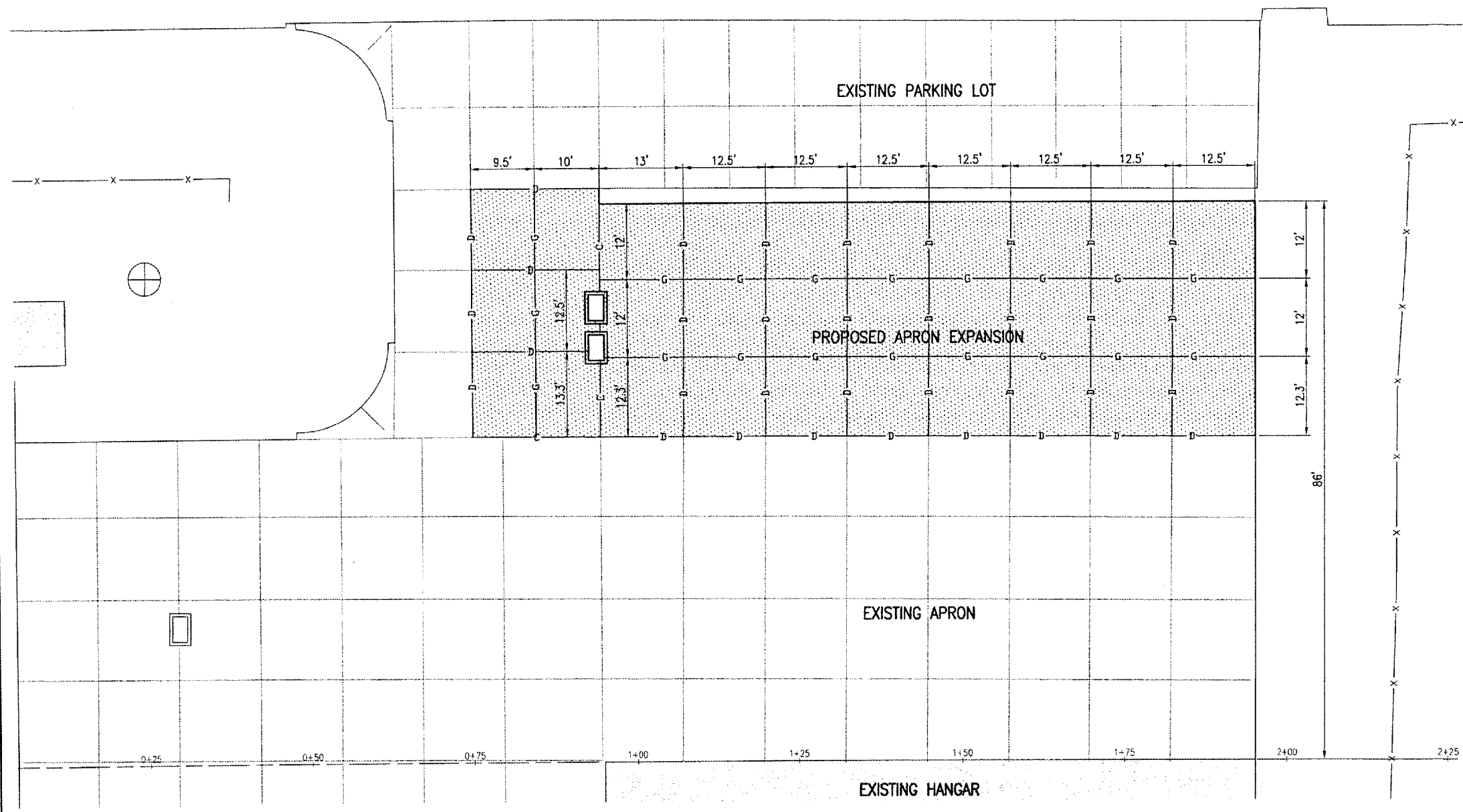
EXISTING PARKING LOT

PROPOSED APRON EXPANSION

EXISTING APRON

EXISTING HANGAR

- LEGEND**
- EXISTING PAVEMENT
 - EXISTING BUILDING
 - EXISTING CLASS E FENCE
 - EXISTING INLET
 - EXISTING AIRPORT ROTATING BEACON
 - PROPOSED P.C.C. PAVEMENT
 - PROPOSED INLET
 - TYPE C - THICKENED EDGE EXPANSION JOINT
 - TYPE D - LONGITUDINAL CONSTRUCTION JOINT w/ DOWELS
 - TYPE G - LONGITUDINAL CONTRACTION JOINT w/ TIE-BARS



DATE	REVISION	BY

FLORA AIRPORT
FLORA, ILLINOIS

IL PROJ: FOA-3758 A.I.P. PROJ: 3-17-0044-B14

REL. Project No. 07A0122D_0800	LAYOUT	CCC	12/20/07
Filename: R-161.JNTL.DWG	DRAWN	CCC	12/20/07
Scale: 1" = 10'	REVIEWED	CAH	01/25/08
Date: 12/20/07			

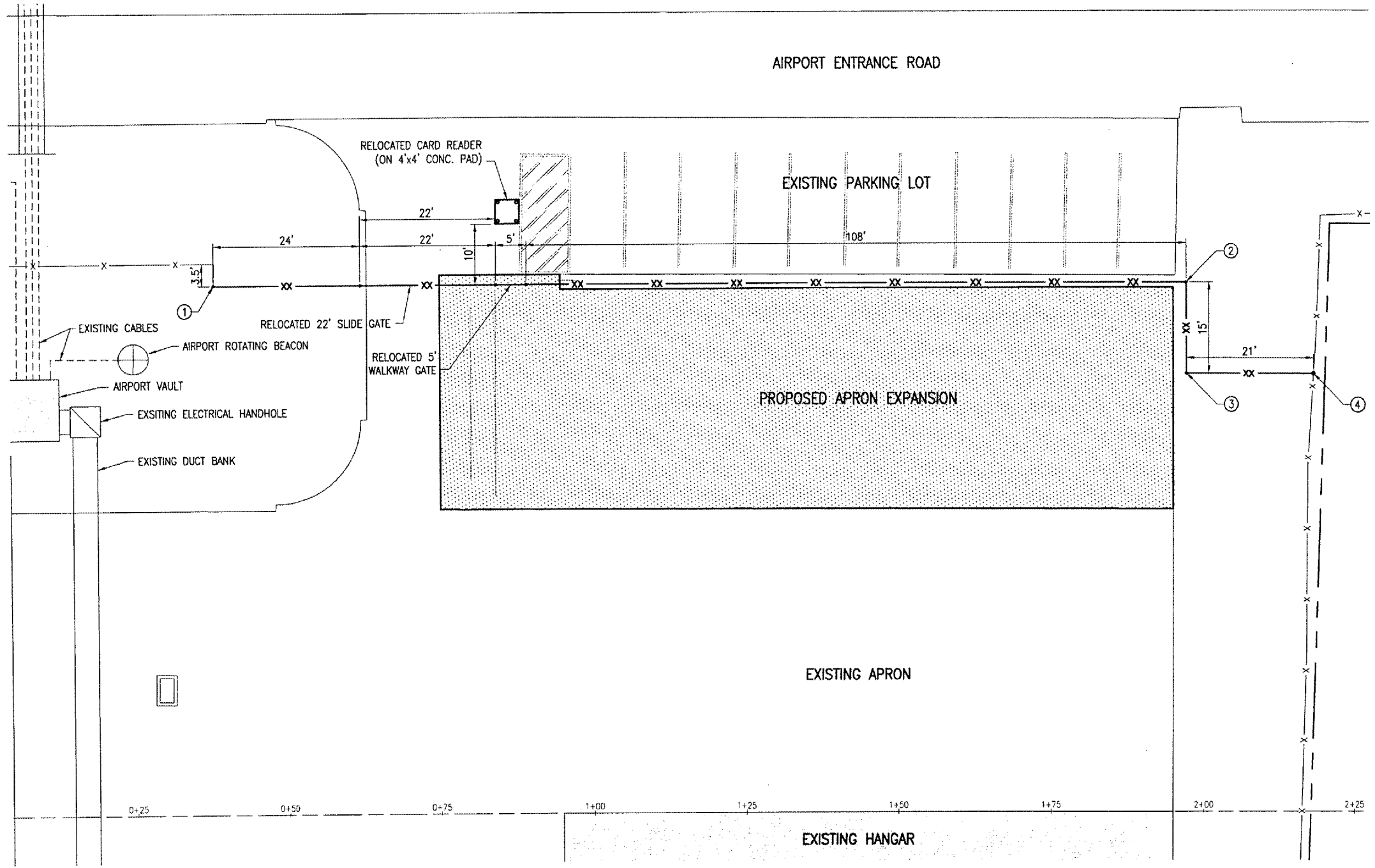
HANSON

Hanson Professional Services Inc.
1625 South State Street
Springfield, Illinois 62768

EXPAND
HANGAR PAVEMENT

PROPOSED JOINTING PLAN

MAR 12, 2008 8:07 AM HAGL000382
I:\AIRPORTS\FLORA\07A0122\CAD\SHEETS\R-161.JNT.DWG - JOINTING PLAN



QUANTITIES				
ITEM No.	DESCRIPTION	UNIT	QUANTITY	AS BUILT QUANTITY
AR162960	RELOCATE CLASS E FENCE	L.F.	168	
AR162963	RELOCATE GATE 5'	EACH	(SHEET 4)	
AR162964	RELOCATE GATE	EACH	(SHEET 4)	
AR209510	CRUSHED AGGREGATE BASE COURSE	TON	13	

COORDINATE DATA				
ID.	STATION	OFFSET	NORTHING	EASTING
1	0+38	87' LT.	729394.11	950300.47
2	1+97	87' LT.	729553.26	950299.50
3	1+97	72' LT.	729553.41	950314.50
4	2+18	72' LT.	729574.28	950314.45

- LEGEND**
- EXISTING PAVEMENT
 - EXISTING BUILDING
 - EXISTING PROPERTY LINE
 - EXISTING CLASS E FENCE
 - EXISTING INLET
 - EXISTING AIRPORT ROTATING BEACON
 - PROPOSED P.C.C. PAVEMENT
 - PROPOSED CLASS E FENCE

FENCING NOTES

THE PROPOSED RELOCATED CLASS "E" FENCE (4' HIGH) WILL BE INSTALLED AT THE LOCATIONS SHOWN ON THIS SHEET AND IN ACCORDANCE WITH THE DETAILS SHOWN IN THE SPECIAL PROVISIONS.

THIS ITEM OF WORK WILL BE PAID FOR UNDER ITEM:
AR162960 "RELOCATE CLASS E FENCE" - PER L.F.

THE EXISTING CLASS "E" MANUAL WALKWAY GATE WILL BE REINSTALLED AT THE LOCATION SHOWN ON THIS SHEET AND IN ACCORDANCE WITH THE DETAILS SHOWN IN THE SPECIAL PROVISIONS.

THIS ITEM OF WORK WILL BE PAID FOR UNDER ITEM:
AR162963 "RELOCATE GATE 5'" - PER EACH.

THE EXISTING CLASS "E" 22' ELECTRIC SLIDE GATE WILL BE REINSTALLED AT THE LOCATION SHOWN ON THIS SHEET AND IN ACCORDANCE WITH THE DETAILS SHOWN IN THE SPECIAL PROVISIONS.

THIS ITEM OF WORK ALSO INCLUDES THE RELOCATION OF THE CARD READER AND THE REPLACEMENT OF THE GATE OPERATOR. (SEE SPECIFICATIONS FOR DETAILS.)

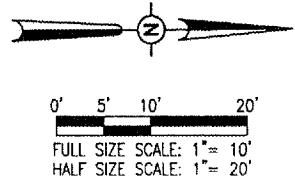
THIS ITEM OF WORK WILL BE PAID FOR UNDER ITEM:
AR162964 "RELOCATE GATE" - PER EACH.

THE CONTRACTOR WILL ALSO PLACE CA-6 CRUSHED AGGREGATE UNDER & ALONG THE RELOCATED FENCE AT A DEPTH OF 6" AND APPROXIMATELY 24" IN WIDTH.

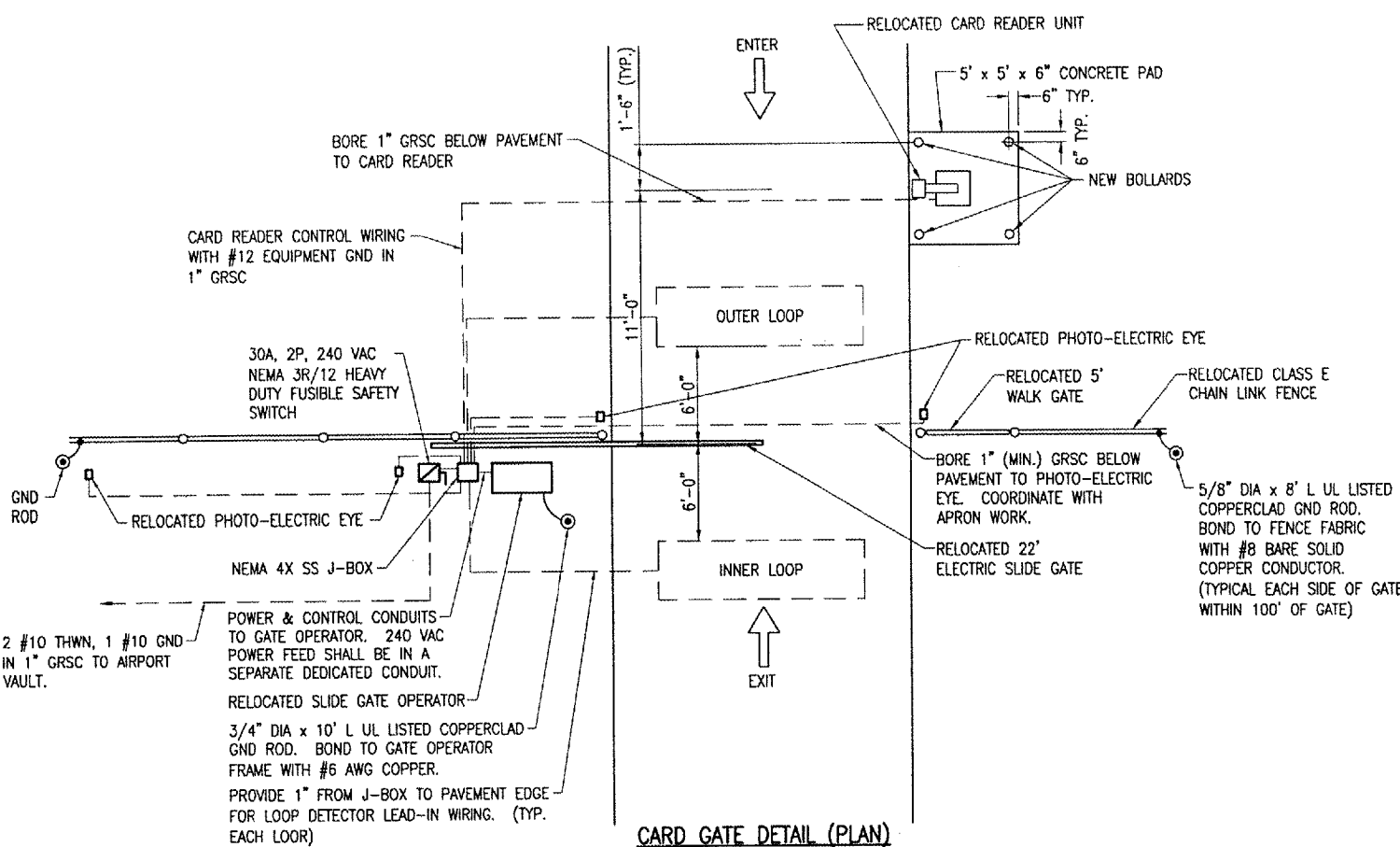
THIS ITEM OF WORK WILL BE PAID FOR UNDER ITEM:
AR209510 "CRUSHED AGGREGATE BASE COURSE" - PER TON.

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 J.U.L.I.E. FOR UTILITY INFORMATION AT 1-800-892-0123.

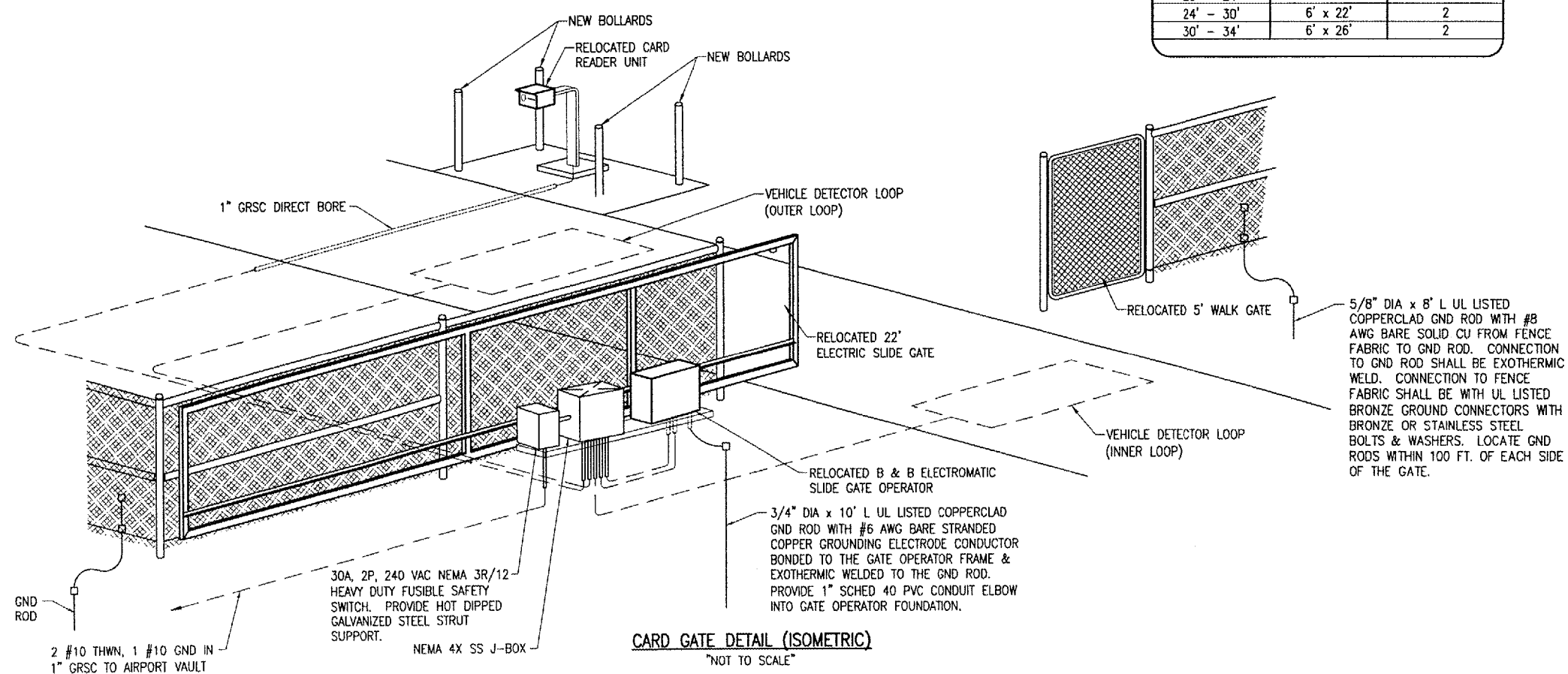


BY	
REVISION	
DATE	
FLORA AIRPORT FLORA, ILLINOIS	
A.I.P. PROJ.: 3-17-0044-B14	
I.L. PROJ.: FDA-3758	
I.B. Project No. 07A0122D-0800 Filename: R-171FEN.DWG Scale: 1" = 10' Date: 01/04/08	01/04/08 01/04/08 01/25/08
Hanson Professional Services Inc. 1925 South Sixth Street Springfield, Illinois 62703-2886 Offices Nationwide	
EXPAND HANGAR PAVEMENT	PROPOSED FENCE PLAN
10	
10 of 15 sheets	



VEHICLE DETECTOR LOOPS

GATE SIZE	LOOP SIZE	No. OF TURNS
8' - 12'	4' x 6'	3
12' - 16'	4' x 10'	2
16' - 20'	4' x 14'	2
20' - 24'	4' x 18'	2
24' - 30'	6' x 22'	2
30' - 34'	6' x 26'	2

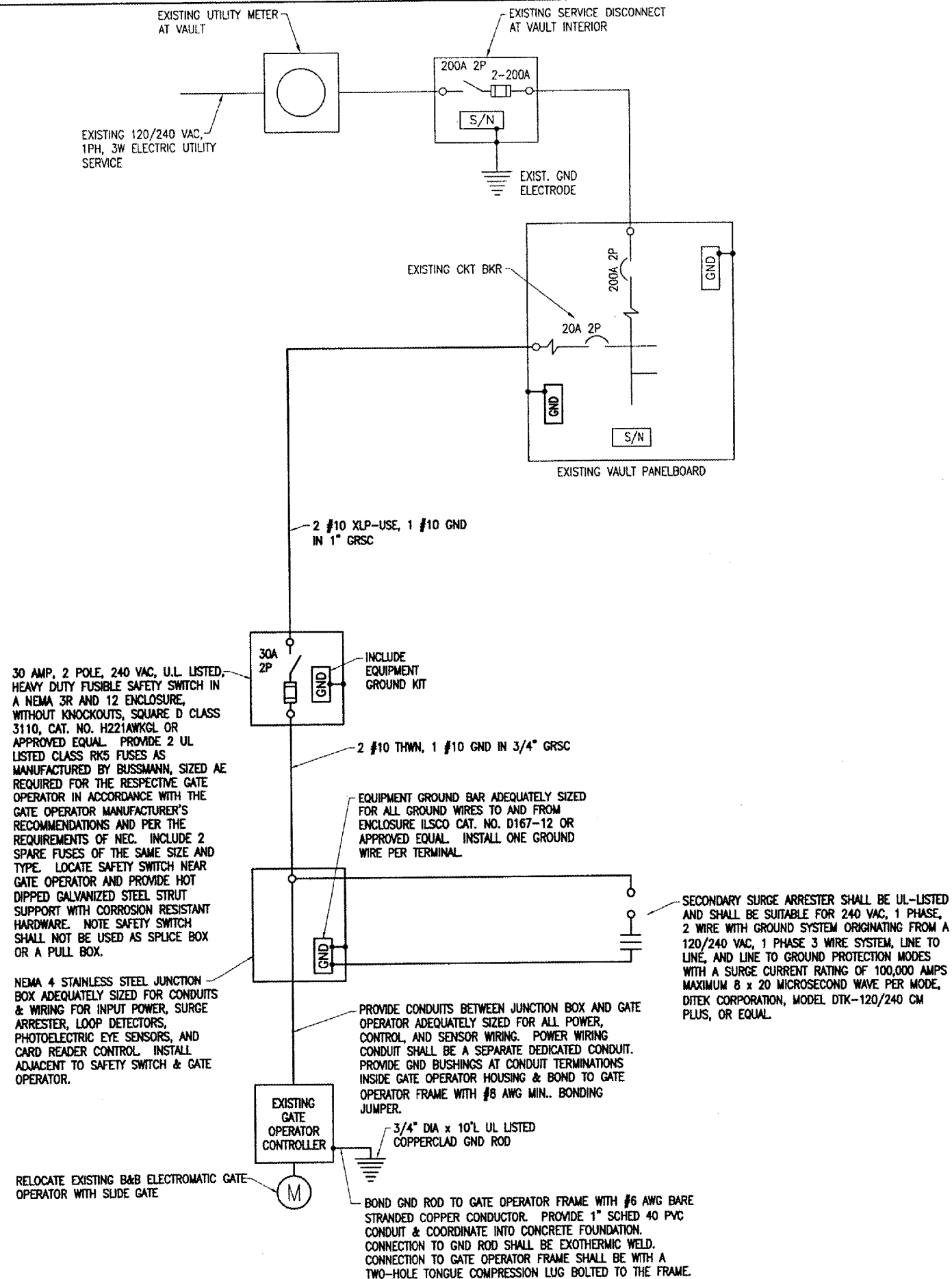


NOTES

- SEE SPECIAL PROVISION SPECIFICATIONS FOR RELOCATION REQUIREMENTS ON GATE & GATE OPERATOR SYSTEM.
- ALL DIMENSIONS AND LAYOUT INFORMATION SHOWN SHOULD BE ADJUSTED AS RECOMMENDED BY THE MANUFACTURER.
- CONCRETE FOUNDATIONS SHALL BE PROVIDED FOR THE SLIDE GATE OPERATOR AND THE CARD READER CONTROL UNIT. FOUNDATION FOR THE GATE OPERATOR SHALL BE 48" (MIN.) IN DEPTH AND OF THE SIZE RECOMMENDED BY THE MANUFACTURER PLUS MOUNTING SPACE FOR SAFETY SWITCH & J-BOX. FOUNDATION FOR THE CARD READER ACCESS CONTROL UNIT SHALL BE 48" (MIN.) IN DEPTH, AS DETAILED HEREIN.
- 1" GRS CONDUIT WILL BE REQUIRED BETWEEN THE SLIDE GATE OPERATOR AND THE CARD READER ACCESS CONTROL UNIT AND BETWEEN THE SLIDE GATE OPERATOR AND THE DETECTOR LOOPS. THE MINIMUM BURYING DEPTH IS 24". ALL METAL CONDUITS ENTERING THE GATE OPERATOR SHALL BE BONDED TO THE GATE OPERATOR FRAME WITH A #8 AWG (MIN.) COPPER BONDING JUMPER. CONFIRM CONTROL WIRING REQUIREMENTS WITH THE RESPECTIVE GATE OPERATOR SALES AND SERVICE REPRESENTATIVE.
- THE GUARD/BOLLARD POSTS SHALL BE 4" DIA. STEEL (HEAVY WALL) PIPE, CONCRETE FILLED, AND SHALL EXTEND FROM THE TOP OF THE CARD CONTROL UNIT TO A DEPTH OF 48" BELOW THE GROUND LINE. THE CONCRETE FOOTER DIMENSION SHALL BE AS DETAILED HEREIN. GUARD/BOLLARD POSTS SHALL BE PAINTED WITH YELLOW COLORED ENAMEL FINISH.
- THE SLIDE GATE, ELECTRIC GATE OPERATOR, AND CARD READER ARE EXISTING, AND SHALL BE RELOCATED AS DETAILED HEREIN. COORDINATE LOCATIONS WITH THE AIRPORT MANAGER.
- CONTRACTOR SHALL COORDINATE ANY POWER OUTAGES TO EXISTING EQUIPMENT WITH THE RESPECTIVE OWNER'S REPRESENTATIVE AND THE AIRPORT MANAGER.
- INCLUDE UL LISTED SECONDARY SURGE ARRESTER FOR THE GATE OPERATOR SUITABLE FOR USE ON 240 VAC, 1 PHASE, 2 WIRE PLUS GROUND SYSTEM, WITH SURGE CURRENT RATING OF 100 KA PER MODE, LIFETIME PRODUCT REPLACEMENT WARRANTY, DITEK MODEL DTK-120/240 CM PLUS OR EQUAL.
- CONCRETE USED FOR INSTALLING THE GATE OPERATOR, CARD READER, & FENCE SHALL MEET THE REQUIREMENTS OF STRUCTURAL PORTLAND CEMENT CONCRETE ITEM AR610.
- CONTRACTOR SHALL FIELD VERIFY & RECORD EXISTING WIRING AND CONNECTIONS TO THE GATE OPERATOR, CARD READER, DETECTOR AMPLIFIERS, PHOTO-ELECTRIC EYES, AND CONTROLS PRIOR TO REMOVING THE GATE.
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 - NATIONAL ELECTRICAL CODE (NEC) (MOST CURRENT ISSUE IN FORCE), THE RESPECTIVE EQUIPMENT MANUFACTURER'S DIRECTIONS AND ALL OTHER APPLICABLE LOCAL CODES, LAWS, ORDINANCES, AND REQUIREMENTS IN FORCE. ANY INSTALLATIONS WHICH VOID THE UL LISTING, ETL LISTING, (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE WILL NOT BE PERMITTED.
- PROVIDE A WEATHERPROOF ENGRAVED PHENOLIC OR PLASTIC LEGEND PLATE FOR THE SAFETY SWITCH AT THE RESPECTIVE GATE OPERATOR NOTING THE GATE SERVED, VOLTAGE, AND RESPECTIVE POWER SOURCE CIRCUIT AND LOCATION.
- PAYMENT FOR RELOCATING THE SLIDE GATE, CARD READER, GATE OPERATOR, AND ALL ASSOCIATED CONTROL & SAFETY DEVICES SHALL BE ON A LUMP SUM BASIS AND SHALL BE FULL COMPENSATION FOR ALL MATERIALS, EQUIPMENT, LABOR, TOOLS, COORDINATION, TESTING, AND INCIDENTALS REQUIRED TO RELOCATE THE GATE COMPLETE AND IN OPERATING CONDITION.
- INCLUDE CORROSION RESISTANT SUPPORT POSTS AND HARDWARE WITH PHOTO-ELECTRIC EYE RELOCATIONS.
- CONTROL CIRCUIT WIRING SHALL NOT BE ROUTED THROUGH THE SAFETY SWITCH/DISCONNECT.

MAR 12, 2008 8:08 AM HAGL0003B2 I:\AIRPORTS\FLORA\07A0122\CAD\SHEETS\R-17\FEN.DWG - DETAILS

BY		REVISION		DATE	
<p>FLORA AIRPORT FLORA, ILLINOIS</p> <p style="font-size: small;">A.I.P. PROJ.: 3-17-0044-B14 ILL. PROJ.: FDA-3758</p>					
Heli. Project No. 07A0122D-0800 Filename: R-17\FEN.DWG Scale: N/A Date: 01/15/08	12/19/07 12/19/07 01/25/08	CCC CCC CAH			
<p>HANSON</p> <p style="font-size: x-small;">Hanson Professional Services Inc. 1525 South Skid Street Springfield, Illinois 62703-2886 Offices Nationwide</p>					
<p>EXPAND HANGAR PAVEMENT</p>		<p>PROPOSED GATE DETAILS</p>			
<p style="font-size: 2em; font-weight: bold;">11</p> <p style="font-size: x-small;">11 of 15 sheets</p>					



30 AMP, 2 POLE, 240 VAC, U.L. LISTED, HEAVY DUTY FUSIBLE SAFETY SWITCH IN A NEMA 3R AND 12 ENCLOSURE, WITHOUT KNOCKOUTS, SQUARE D CLASS 3110, CAT. NO. H221AWKGL OR APPROVED EQUAL. PROVIDE 2 UL LISTED CLASS RK5 FUSES AS MANUFACTURED BY BUSSMANN, SIZED AS REQUIRED FOR THE RESPECTIVE GATE OPERATOR IN ACCORDANCE WITH THE GATE OPERATOR MANUFACTURER'S RECOMMENDATIONS AND PER THE REQUIREMENTS OF NEC. INCLUDE 2 SPARE FUSES OF THE SAME SIZE AND TYPE. LOCATE SAFETY SWITCH NEAR GATE OPERATOR AND PROVIDE HOT DIPPED GALVANIZED STEEL STRUT SUPPORT WITH CORROSION RESISTANT HARDWARE. NOTE SAFETY SWITCH SHALL NOT BE USED AS SPLICE BOX OR A PULL BOX.

NEMA 4 STAINLESS STEEL JUNCTION BOX ADEQUATELY SIZED FOR CONDUITS & WIRING FOR INPUT POWER, SURGE ARRESTER, LOOP DETECTORS, PHOTOELECTRIC EYE SENSORS, AND CARD READER CONTROL. INSTALL ADJACENT TO SAFETY SWITCH & GATE OPERATOR.

RELOCATE EXISTING B&B ELECTROMATIC GATE OPERATOR WITH SLIDE GATE

3/4" DIA x 10'L UL LISTED COPPERCLAD GND ROD

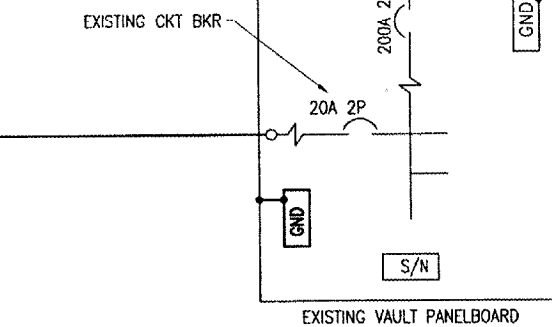
BOND GND ROD TO GATE OPERATOR FRAME WITH #6 AWG BARE STRANDED COPPER CONDUCTOR. PROVIDE 1" SCHED 40 PVC CONDUIT & COORDINATE INTO CONCRETE FOUNDATION. CONNECTION TO GND ROD SHALL BE EXOTHERMIC WELD. CONNECTION TO GATE OPERATOR FRAME SHALL BE WITH A TWO-HOLE TONGUE COMPRESSION LUG BOLTED TO THE FRAME.

SECONDARY SURGE ARRESTER SHALL BE UL-LISTED AND SHALL BE SUITABLE FOR 240 VAC, 1 PHASE, 2 WIRE WITH GROUND SYSTEM ORIGINATING FROM A 120/240 VAC, 1 PHASE 3 WIRE SYSTEM, LINE TO LINE, AND LINE TO GROUND PROTECTION MODES WITH A SURGE CURRENT RATING OF 100,000 AMPS MAXIMUM 8 x 20 MICROSECOND WAVE PER MODE, DITEK CORPORATION, MODEL DTK-120/240 CM PLUS, OR EQUAL.

EQUIPMENT GROUND BAR ADEQUATELY SIZED FOR ALL GROUND WIRES TO AND FROM ENCLOSURE ILSCO CAT. NO. D167-12 OR APPROVED EQUAL. INSTALL ONE GROUND WIRE PER TERMINAL.

2 #10 THWN, 1 #10 GND IN 3/4" GRSC

2 #10 XLP-USE, 1 #10 GND IN 1" GRSC



EXISTING CKT BKR

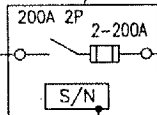
200A 2P

20A 2P

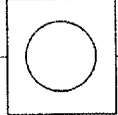
GND

EXISTING VAULT PANELBOARD

EXIST. GND ELECTRODE



EXISTING SERVICE DISCONNECT AT VAULT INTERIOR



EXISTING UTILITY METER AT VAULT
EXISTING 120/240 VAC, 1PH, 3W ELECTRIC UTILITY SERVICE

NOTES

1. ALL VAULT WORK AND/OR POWER OUTAGES SHALL BE COORDINATED WITH THE AIRPORT MANAGER.
2. ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70-NATIONAL ELECTRICAL CODE (NEC) MOST CURRENT ISSUE IN FORCE, THE RESPECTIVE EQUIPMENT MANUFACTURER'S DIRECTIONS AND ALL OTHER APPLICABLE LOCAL CODES, LAWS, ORDINANCES AND REQUIREMENTS IN FORCE. ANY INSTALLATIONS WHICH VOID THE U.L. LISTING, ETL LISTING, (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE SHALL NOT BE PERMITTED.
3. ALL EQUIPMENT SHOWN NOT LABELED AS EXISTING IS NEW.
4. HIGH VOLTAGE & LOW VOLTAGE CIRCUITS SHALL NOT BE INSTALLED IN THE SAME WIREWAY, CONDUIT, DUCT, OR HANDHOLE.
5. LTFMC DENOTES LIQUID TIGHT FLEXIBLE METAL CONDUIT UL LISTED, SUNLIGHT RESISTANT, & SUITABLE FOR GROUNDING. LIQUID TIGHT FLEXIBLE METAL CONDUIT AND ASSOCIATED FITTINGS SHALL BE U.L. LISTED TO MEET THE REQUIREMENTS OF NEC 350.6. LIQUID TIGHT FLEXIBLE METAL CONDUIT THAT IS USED FOR FLEXIBILITY (INCLUDING CONNECTIONS TO CCR'S & TRANSFORMERS) SHALL REQUIRE AN EXTERNAL BONDING JUMPER OR INTERNAL EQUIPMENT GROUNDING CONDUCTOR PER NEC 350.60. EXTERNAL BONDING JUMPERS USED WITH CCR INSTALLATIONS SHALL BE #6 AWG COPPER (MINIMUM). DO NOT INSTALL LTFMC THAT IS NOT UL LISTED.
6. ALL WORK SHOWN ON THIS SHEET SHALL BE PAID FOR UNDER ITEM AR162964 - RELOCATE GATE.

REVISION	DATE	BY

FLORA AIRPORT
FLORA, ILLINOIS

HEL Project No.	07A0122D_0800
Drawings	E-601.DWG
Scale	N/A
Date	01/29/08
LAYOUT	KNL
DRAWN	MY
REVIEWED	CAH
DATE	01/28/08
DATE	01/29/08
DATE	01/29/08



EXPAND
HANGAR PAVEMENT
ELECTRICAL ONE LINE
DIAGRAM FOR
GATE OPERATOR

ELECTRICAL ONE LINE DIAGRAM FOR GATE OPERATOR

MAP 12, 2008 8:10 AM HAGL000382
I:\AIRPORTS\FLORA\07A0122\CAD\SHEETS\F-601.DWG - Layout1

BY	
REVISION	
DATE	

FLORA AIRPORT
FLORA, ILLINOIS

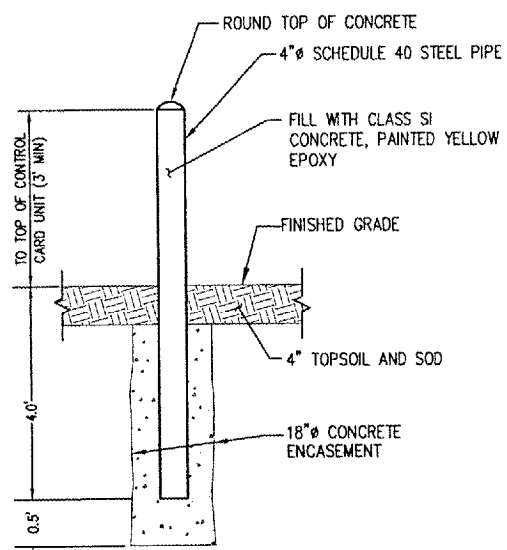
ILL. PROJ.: FOA-3758 A.I.P. PROJ.: 3-17-0944-B14

HEI Project No.	07A0122D_0800
Filename	E-501.DWG
Scale	NONE
Date	05/20/05
LAYOUT	KNL 01/30/08
DRAWN	MV 01/31/08
REVIEWED	CAH 05/20/05



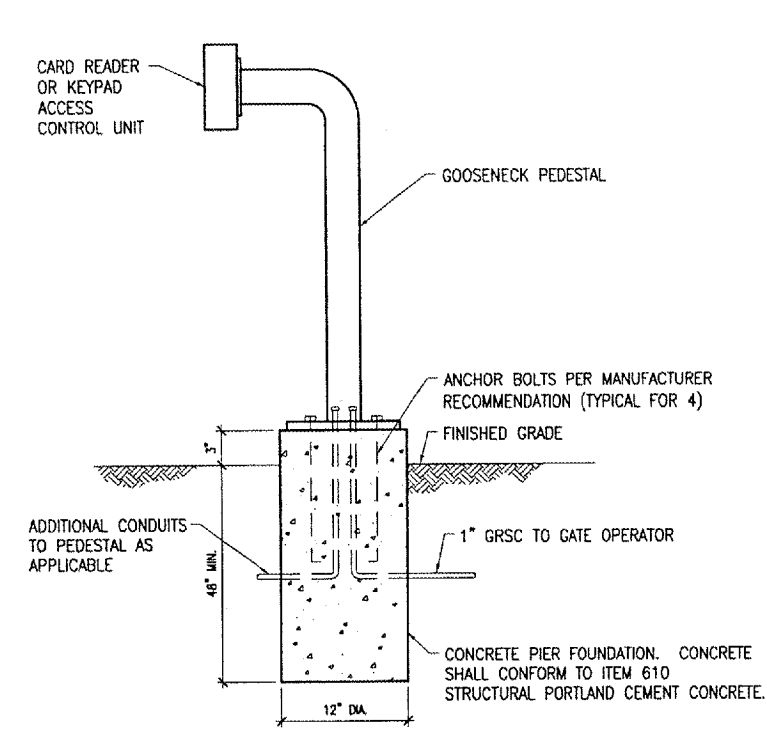
HANSON
Hanson Professional Services, Inc.
1525 South Sixth Street
Springfield, Illinois 62705-2886
Offices Nationwide

EXPAND
HANGAR PAVEMENT
CARD READER, BOLLARD &
GATE OPERATOR DETAILS



- NOTES**
1. THE EXPOSED PORTION OF THE BOLLARD SHALL BE PAINTED YELLOW EPOXY.
 2. BOLLARD AND ASSOCIATED ITEMS ARE INCIDENTAL TO THE ELECTRIC SLIDING GATE.

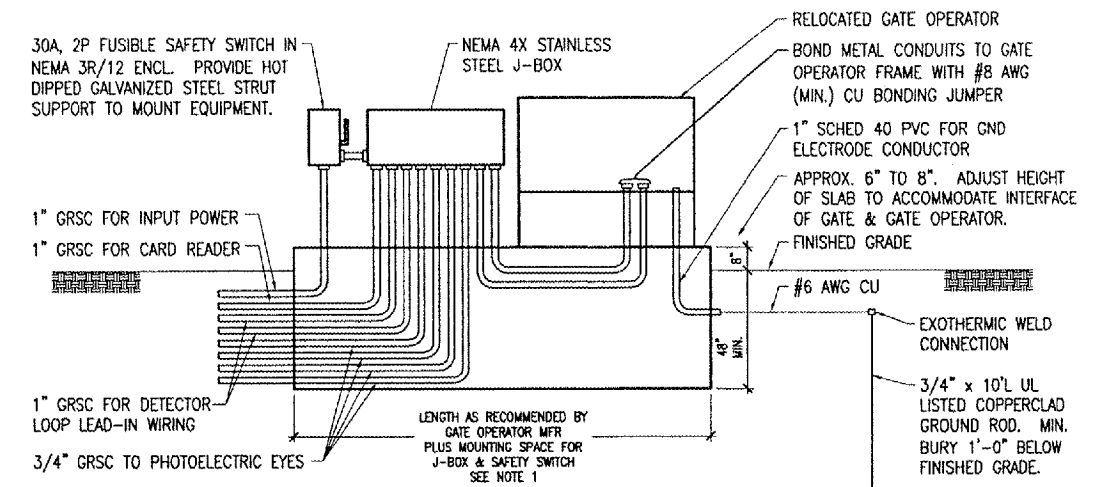
BOLLARD DETAIL



- NOTES**
1. CARD READER & PEDESTAL ARE EXISTING UNITS TO BE RELOCATED.
 2. INCLUDE #12 AWG EQUIPMENT GND WIRE TO CARD READER.

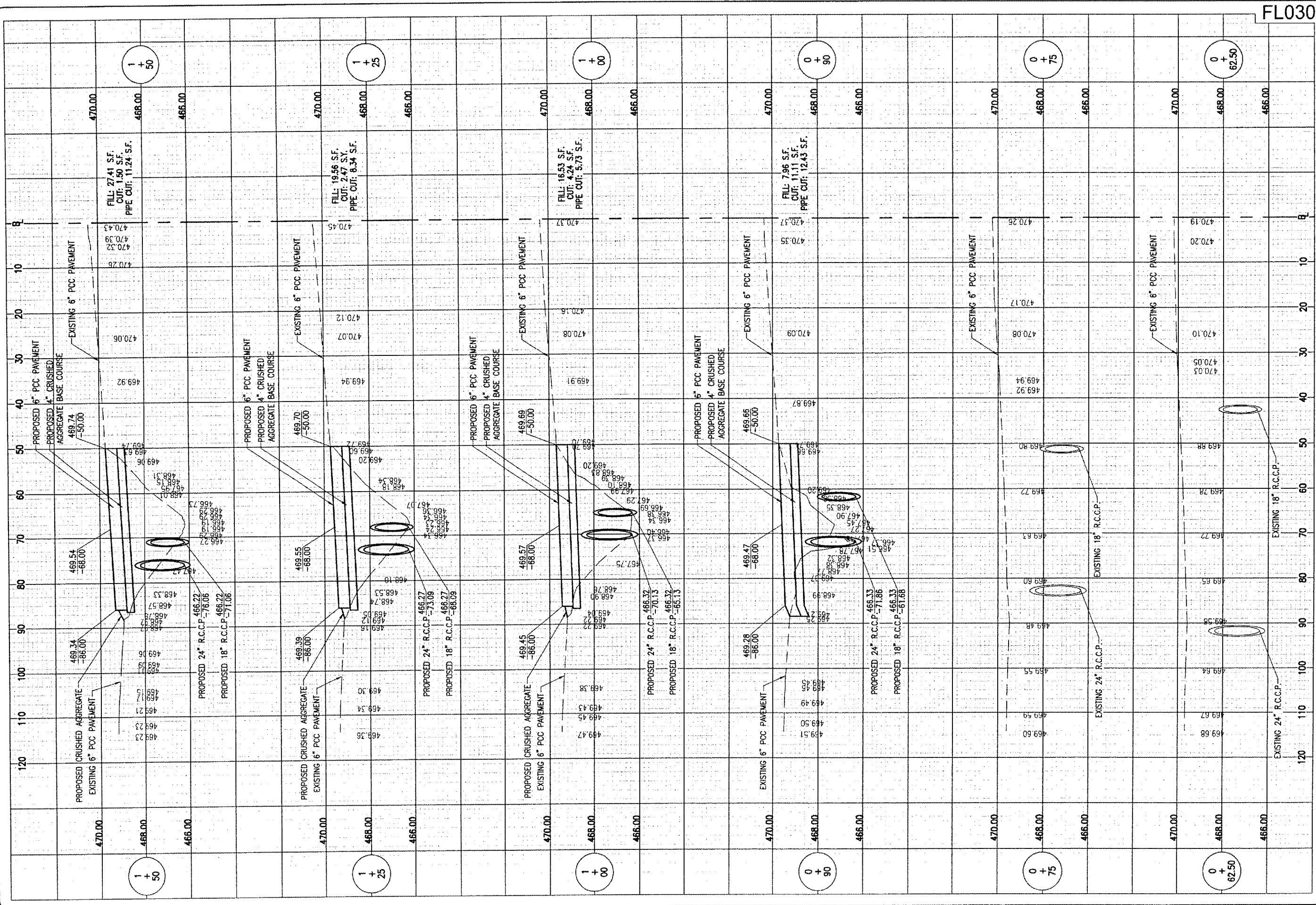
CARD READER/KEYPAD ACCESS CONTROL
UNIT PEDESTAL ELEVATION DETAIL

SCALE: NONE



- NOTES**
1. FOUNDATION FOR GATE OPERATOR SHALL BE 48" MIN. IN DEPTH AND OF THE LENGTH & WIDTH RECOMMENDED BY THE MANUFACTURER, PLUS SPACE FOR SAFETY SWITCH, J-BOX & CONDUITS.
 2. COORDINATE CONDUITS INTO FOUNDATION.
 3. CONFIRM CONDUIT SIZES AND WIRING REQUIREMENTS WITH THE GATE OPERATOR MFR. ADJUST/INCREASE CONDUIT SIZES WHERE APPLICABLE. REQUIREMENTS VARY BETWEEN DIFFERENT MANUFACTURERS.
 4. ALL ENCLOSURES RATED NEMA 4, 4X SHALL HAVE WATERTIGHT HUBS AT CONDUIT ENTRANCES U.L. LISTED NEMA 4, 4X FOR THE RESPECTIVE ENCLOSURE, TO MAINTAIN THE NEMA 4, 4X RATING.

CARD READER/KEYPAD ACCESS CONTROL
"NOT TO SCALE"



FL030

DATE	REVISION	BY

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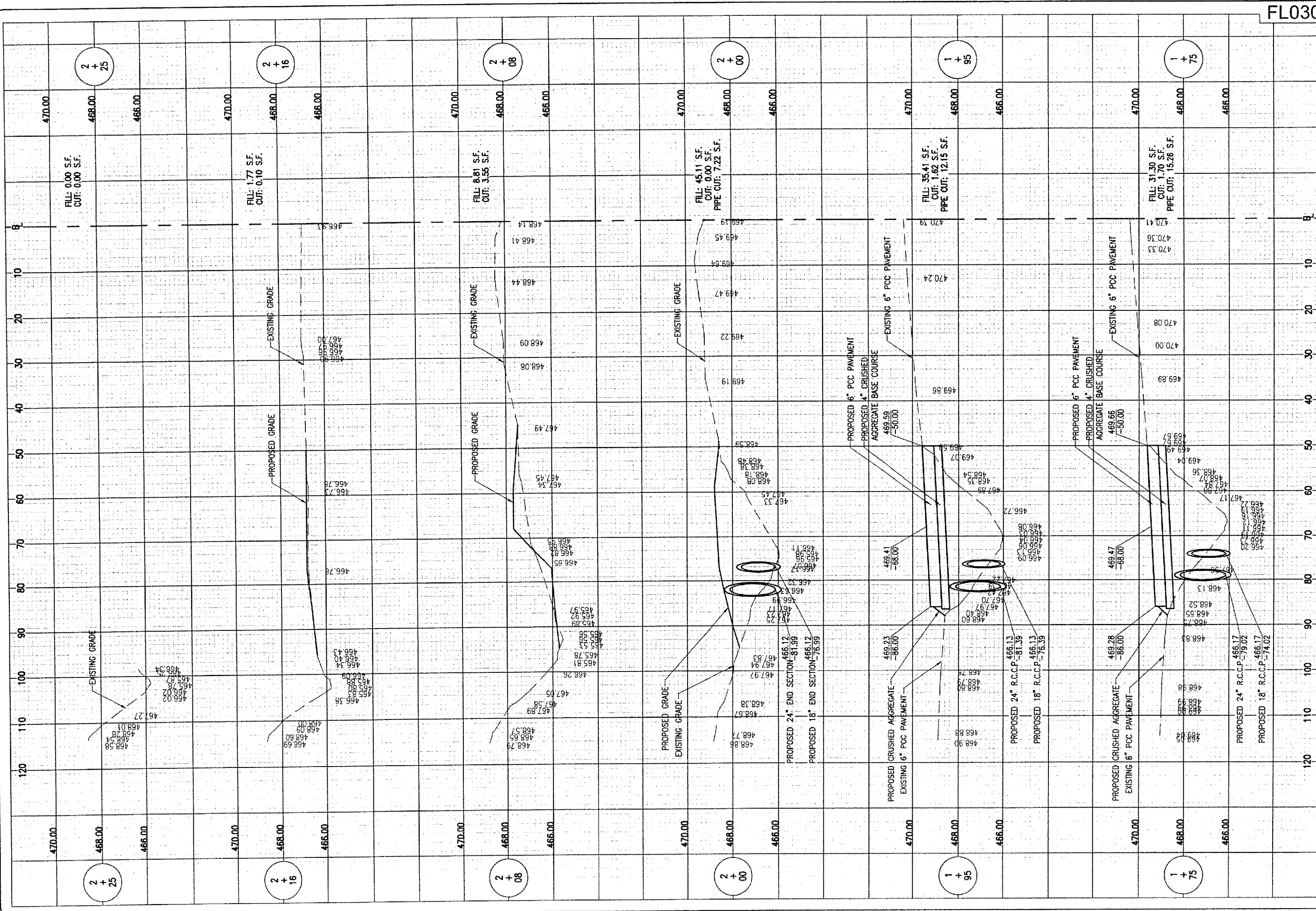
A.I.P. PROJ.: 3-17-0044-B14
 I.L. PROJ.: FOA-3758

IGI Project No. 07A0122D_0800 Filename: R-301XS.DWG Scale: 1" = 10' H./2' V. Date: 01/04/08	LAYOUT: CCC 01/04/08 DRAWN: CCC 01/04/08 REVIEWED: CAH 01/25/08
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**EXPAND
HANGAR PAVEMENT**

PROPOSED
CROSS-SECTIONS
STA. 0+62.50 TO STA. 1+50



FL030

DATE	REVISION	BY

FLORA AIRPORT
 FLORA, ILLINOIS

IL PROJ.: FOA-3758
 A.I.P. PROJ.: J-17-0044-B14

HEL Project No. 07A0122D_0800
 Filename: R-301XS.DWG
 Scale: 1" = 10' H./2" V.
 Date: 01/04/08

LAYOUT	CCC	01/04/08
DRAWN	CCC	01/04/08
REVIEWED	CAH	01/25/08



EXPAND
 HANGAR PAVEMENT

PROPOSED
 CROSS-SECTIONS
 STA. 1+75 TO STA. 2+25