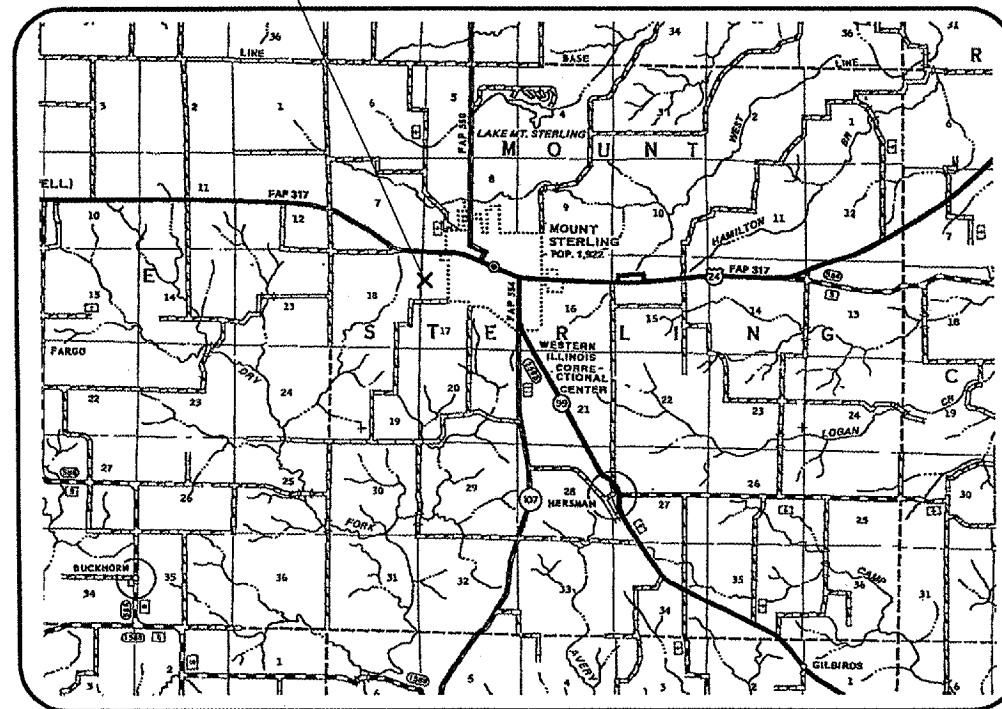


CONSTRUCTION PLANS FOR MT. STERLING MUNICIPAL AIRPORT MT. STERLING, BROWN COUNTY, ILLINOIS

CONSTRUCT A PARTIAL PARALLEL TAXIWAY TO RUNWAY 18-36

THE PROPOSED IMPROVEMENTS CONSIST OF PAVING, LIGHTING, AND MARKING 2,557.5' x 35' TAXIWAY "B" AND 220.5' x 70' TAXIWAY "B-2". ASSOCIATED WORK INCLUDES BITUMINOUS PAVING, MARKING, LIGHTING, GRADING, SEEDING, AND MULCHING.

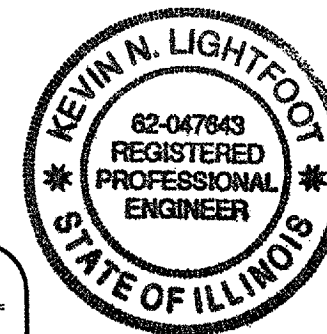
MT. STERLING MUNICIPAL AIRPORT



LOCATION

ILL. PROJ. 163-3431
A.I.P. PROJ. 3-17-0147-B6

LATITUDE: 39° 59' 15"
LONGITUDE: 90° 48' 15"
ELEVATION: 732.0' M.S.L.
DATE: 05/18/05



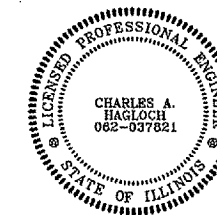
FOR ELECTRICAL
DESIGN

REVISED 7/21/05



Hanson Professional Services Inc.
ELECTRICAL ENGINEER

Submitted by: *Kevin N. Lightfoot* ENG'R
Date Submitted: 7/21/2005
Lic. Exp. Date: NOVEMBER 30, 2005

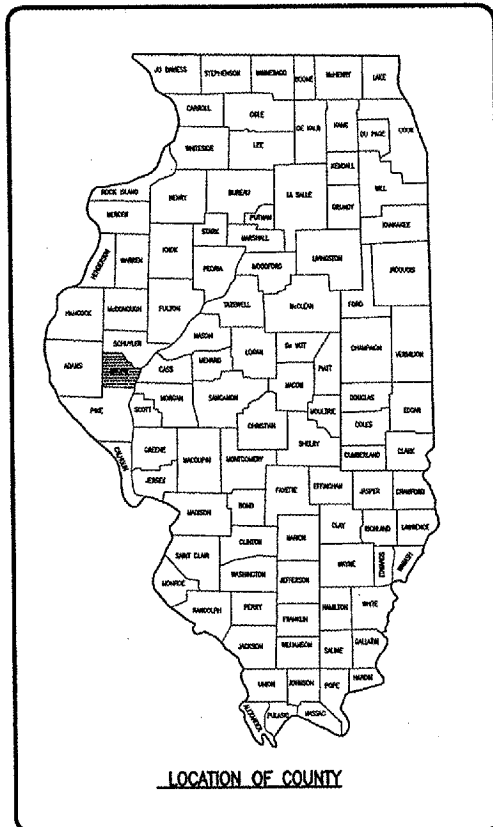


Hanson Professional Services Inc.

Submitted by: *Charles A. Hagloch* ENG'R
Date Submitted: 7/21/05
Lic. Exp. Date: NOVEMBER 30, 2005

CITY OF MT. STERLING

Submitted By: *Jim [Signature]* MAYOR
Date: _____
Submitted By: *Robert [Signature]* CHAIRMAN AIRPORT ADVISORY BOARD
Date: _____



REVISION	DATE

MT. STERLING MUNICIPAL AIRPORT
MT. STERLING, ILLINOIS

LAYOUT	JED	03/14/05
DRAWN	JED	03/21/05
REVIEWED	CAH	05/17/05

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

PARALLEL TAXIWAY
TAXIWAY "B"
COVER SHEET

I:\Airports\MtSterling\1818-05TXX\Airport\Sheets\R-001CVR.dgn 07/21/2005, 10:16 AM Bok

SUMMARY OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	AS AWARDED QUANTITIES	AS BUILT QUANTITIES
AR108158	1/C #8 5 KV UC CABLE IN UD	L.F.	8,819	
AR109200	INSTALL ELECTRICAL EQUIPMENT	L.S.	1	
AR110014	4" DIRECTIONAL BORE	L.F.	110	
AR110502	2-WAY CONCRETE ENCASED DUCT	L.F.	125	
AR125410	MITL-STAKE MOUNTED	EACH	40	
AR125415	MITL-BASE MOUNTED	EACH	8	
AR125447	TAXIWAY GUIDANCE SIGN, 7 CHARACTER	EACH	1	
AR125901	REMOVE STAKE MOUNTED LIGHT	EACH	1	
AR150510	ENGINEER'S FIELD OFFICE	L.S.	1	
AR150540	HAUL ROUTE	L.S.	1	
AR151450	CLEARING AND GRUBBING	ACRE	0.53	
AR152410	UNCLASSIFIED EXCAVATION	C.Y.	10,326	
AR155540	BY-PRODUCT LIME	TON	352	
AR155712	LIME-MODIFIED SUBGRADE-12"	S.Y.	12,641	
AR156510	SILT FENCE	L.F.	950	
AR156511	DITCH CHECK	EACH	8	
AR156521	HEADWALL PROTECTION	EACH	3	
AR156530	TEMPORARY SEEDING	ACRE	17.5	
AR156540	RIPRAP	S.Y.	105	
AR161632	CLASS C GATE-32'	EACH	1	
AR201610	BITUMINOUS BASE COURSE	TONS	1,804	
AR209510	CRUSHED AGGREGATE BASE COURSE	TONS	4,296	
AR401610	BITUMINOUS SURFACE COURSE	TONS	1,068	
AR401665	BITUMINOUS PAVEMENT SAWING	L.F.	216	
AR602510	BITUMINOUS PRIME COAT	GAL.	6,012	
AR603510	BITUMINOUS TACK COAT	GAL.	1,781	
AR620520	PAVEMENT MARKING-WATERBORNE	S.F.	4,757	
AR620900	PAVEMENT MARKING REMOVAL	S.F.	210	
AR701515	15" RCP, CLASS IV	L.F.	100	
AR701518	18" RCP, CLASS IV	L.F.	236	
AR705410	POROUS BACKFILL	C.Y.	276	
AR705526	6" PERFORATED UNDERDRAIN W/SOCK	L.F.	5,558	
AR705630	UNDERDRAIN INSPECTION HOLE	EACH	15	
AR752415	PRECAST REINFORCED CONC. FES 15"	EACH	2	
AR752418	PRECAST REINFORCED CONC. FES 18"	EACH	2	
AR752618	CONCRETE HEADWALL 18"	EACH	2	
AR901510	SEEDING	ACRE	17.5	
AR908510	MULCHING	ACRE	17.5	

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SUMMARY OF QUANTITIES, INDEX TO SHEETS
3	PROPOSED SAFETY PLAN
4	PROPOSED CONSTRUCTION PLAN STA. 39+00 TO STA. 52+00
5	PROPOSED CONSTRUCTION PLAN STA. 52+00 TO STA. 65+00
6	PROPOSED TYPICAL SECTION
7	PROPOSED CLEARING PLAN
8	PROPOSED STORMWATER POLLUTION PREVENTION PLAN
9	PROPOSED EROSION CONTROL DETAILS
10	PROPOSED PLAN & PROFILE STA. 39+00 TO STA. 49+00
11	PROPOSED PLAN & PROFILE STA. 49+00 TO STA. 60+00
12	PROPOSED PLAN & PROFILE STA. 60+00 TO STA. 65+00
13	PROPOSED PLAN & PROFILE STA. 0+00 TO STA. 4+00
14	PROPOSED DRAINAGE PLAN STA. 39+00 TO STA. 52+00
15	PROPOSED DRAINAGE PLAN STA. 52+00 TO STA. 65+00
16	PROPOSED DRAINAGE DETAILS
17	PROPOSED STAKING PLAN STA. 37+00 TO STA. 45+00
18	PROPOSED STAKING PLAN STA. 45+00 TO STA. 53+70
19	PROPOSED STAKING PLAN STA. 53+70 TO STA. 62+40
20	PROPOSED STAKING PLAN STA. 62+40 TO STA. 65+00
21	PROPOSED MARKING PLAN STA. 39+00 TO STA. 52+00
22	PROPOSED MARKING PLAN STA. 52+00 TO STA. 65+00
23	PROPOSED ELECTRICAL PLAN STA. 39+00 TO STA. 52+00
24	PROPOSED ELECTRICAL PLAN STA. 52+00 TO STA. 65+00
25	PROPOSED ELECTRICAL HOME RUN PLAN
26	PROPOSED ELECTRICAL DETAILS
27	PROPOSED ELECTRICAL DETAILS
28	PROPOSED ELECTRICAL NOTES
29	PROPOSED ELECTRICAL NOTES
30	ELECTRICAL LEGEND AND ABBREVIATIONS
31	VAULT FLOOR PLAN & ELEVATIONS
32	EXISTING VAULT ELECTRICAL ONE LINE DIAGRAM
33	NEW ELECTRICAL ONE LINE FOR VAULT
34	AIRFIELD LIGHTING WIRING SCHEMATIC
35	HIGH VOLTAGE WIRING SCHEMATIC
36	PROPOSED FENCE DETAILS
37	PROPOSED CROSS SECTIONS STA. 37+00 TO STA. 38+00
38	PROPOSED CROSS SECTIONS STA. 38+50 TO STA. 39+50
39	PROPOSED CROSS SECTIONS STA. 40+00 TO STA. 41+00
40	PROPOSED CROSS SECTIONS STA. 41+50 TO STA. 42+50
41	PROPOSED CROSS SECTIONS STA. 43+00 TO STA. 44+00
42	PROPOSED CROSS SECTIONS STA. 44+50 TO STA. 45+50
43	PROPOSED CROSS SECTIONS STA. 46+00 TO STA. 47+00
44	PROPOSED CROSS SECTIONS STA. 47+50 TO STA. 48+50
45	PROPOSED CROSS SECTIONS STA. 49+00 TO STA. 50+00
46	PROPOSED CROSS SECTIONS STA. 50+50 TO STA. 51+50
47	PROPOSED CROSS SECTIONS STA. 52+00 TO STA. 53+00
48	PROPOSED CROSS SECTIONS STA. 53+50 TO STA. 54+50
49	PROPOSED CROSS SECTIONS STA. 55+00 TO STA. 56+00
50	PROPOSED CROSS SECTIONS STA. 56+50 TO STA. 57+50
51	PROPOSED CROSS SECTIONS STA. 58+00 TO STA. 59+00
52	PROPOSED CROSS SECTIONS STA. 59+50 TO STA. 60+50
53	PROPOSED CROSS SECTIONS STA. 61+00 TO STA. 62+00
54	PROPOSED CROSS SECTIONS STA. 62+36.21 TO STA. 63+00
55	PROPOSED CROSS SECTIONS STA. 63+50 TO STA. 64+50
56	PROPOSED CROSS SECTIONS STA. 0+00 TO STA. 2+00
57	PROPOSED CROSS SECTIONS STA. 2+50 TO STA. 3+50

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BY	
REVISION	
DATE	

MT. STERLING MUNICIPAL AIRPORT

MT. STERLING, ILLINOIS

A.I.P. PROJ.: 3-17-0417-B6
I.L. PROJ.: 163-3431

HEI Project No. B18-051X	FILENAME: R-002-FLAP.dgn
Scale: 07/18/2005 01:36 PM	Date: 07/18/2005 01:36 PM
LAYOUT	JEO 03/14/05
DRAWN	JEO 03/21/05
REVIEWED	CAH 05/17/05



Hanson Professional Services Inc.
1525 South Sixth Street
Springfield, Illinois 62703-2886
Offices Nationwide

PARALLEL TAXIWAY
TAXIWAY "B"

SUMMARY OF QUANTITIES,
INDEX TO SHEETS

SCOPE OF WORK

THE PROPOSED IMPROVEMENTS CONSIST OF PAVING, LIGHTING, AND MARKING 2,557.5' x 35' TAXIWAY "B" AND 220.5' x 70' TAXIWAY "B-2". ASSOCIATED WORK INCLUDES BITUMINOUS PAVING, MARKING, LIGHTING, GRADING, SEEDING, AND 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 DESIGNATED HAUL ROUTE AND PARKING AREA AS SHOWN ON THIS SHEET. THE PROPOSED PARKING AREA WILL BE 200' X 200'. THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN THE PROPOSED HAUL ROUTE AND PARKING AREA THROUGHOUT THE DURATION OF THE PROJECT. ANY AREAS DISTURBED OUTSIDE OF THESE AREAS WILL BE REPAIRED BY THE CONTRACTOR AND AT THE CONTRACTOR'S EXPENSE. AT THE CONCLUSION OF THE PROJECT THE CONTRACTOR WILL PLACE CRUSHED AGGREGATE BASE COURSE, FERTILIZE, SEED AND MULCH THE HAUL ROUTE AND PARKING AREA AS NEEDED TO RESTORE IT TO ITS ORIGINAL STATE. RESTORATION OF THE HAUL ROUTE AND PARKING AREA WILL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

CONTRACTOR RESPONSIBILITIES

THE CONTRACTOR'S EQUIPMENT PARKING AND STORAGE AREA WILL BE AS SHOWN ON THIS SHEET. THE CONTRACTOR'S EMPLOYEES WILL PARK THEIR VEHICLES IN THIS AREA. ONLY CONTRACTOR VEHICLES WILL BE ALLOWED OUTSIDE THIS AREA.

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

ALL WORK PERFORMED SHALL BE DONE IN A ORDERLY AND EFFECTIVE MANNER TO MINIMIZE RUNWAY CLOSURE.

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 LIGHTED BARRICADES WILL BE PLACED ADJACENT TO THE EXISTING PAVEMENT EDGES ANY TIME THE DROP-OFF EXCEEDS THREE (3) INCHES. THESE BARRICADES WILL BE IN PLACE EACH EVENING BEFORE REOPENING A TAXIWAY OR RUNWAY. THE BARRICADES WILL BE EQUIPPED WITH RED STEADY-BURN OR FLASHING LIGHTS. THE BARRICADES, THEIR MAINTENANCE, PLACEMENT AND REMOVAL WILL BE CONSIDERED AS AN INCIDENTAL ITEM TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

EROSION CONTROL

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

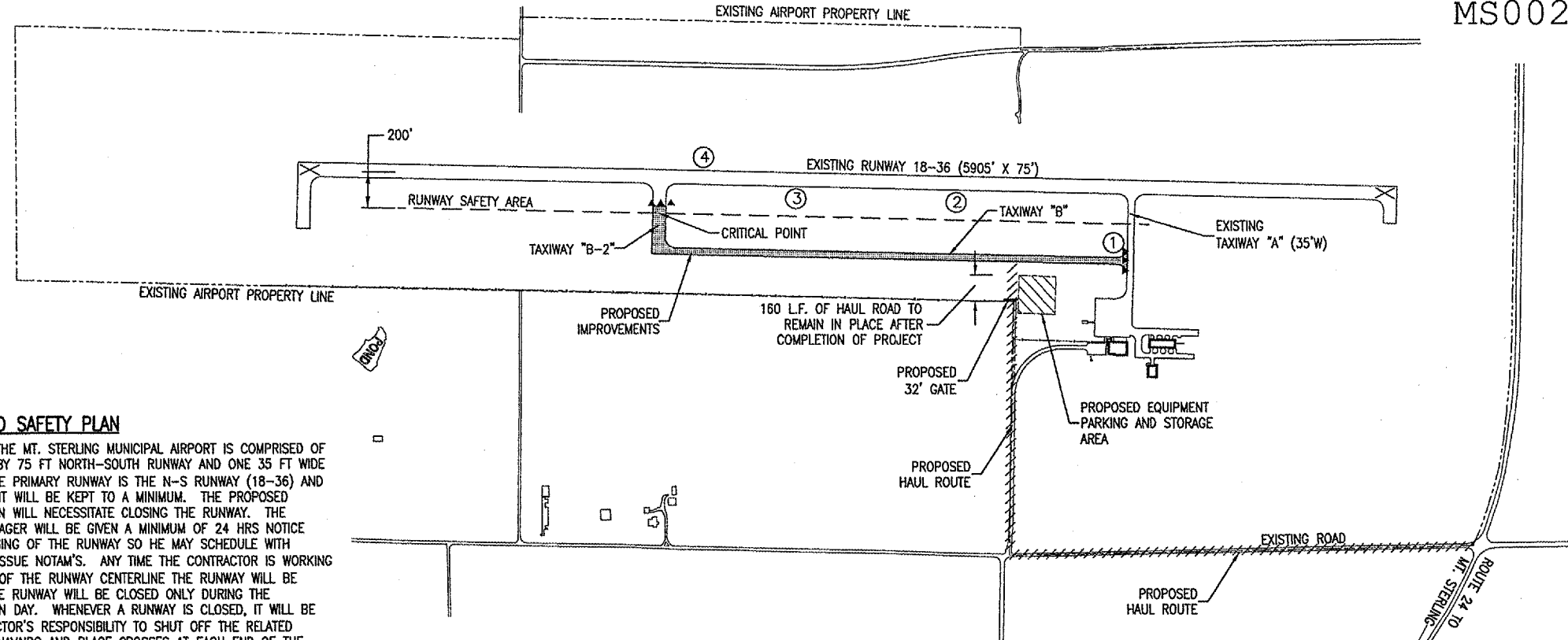
150-ENGINEER'S FIELD OFFICE NOTES

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 PROPOSED ENGINEER'S FIELD OFFICE WILL BE PAID FOR UNDER ITEMS:
AR150510 ENGINEER'S FIELD OFFICE 1 L.S.



PROPOSED SAFETY PLAN

GENERAL - THE MT. STERLING MUNICIPAL AIRPORT IS COMPRISED OF A 5,900 FT BY 75 FT NORTH-SOUTH RUNWAY AND ONE 35 FT WIDE TAXIWAY. THE PRIMARY RUNWAY IS THE N-S RUNWAY (18-36) AND CLOSING OF IT WILL BE KEPT TO A MINIMUM. THE PROPOSED CONSTRUCTION WILL NECESSITATE CLOSING THE RUNWAY. THE AIRPORT MANAGER WILL BE GIVEN A MINIMUM OF 24 HRS NOTICE BEFORE CLOSING OF THE RUNWAY SO HE MAY SCHEDULE WITH PILOTS AND ISSUE NOTAM'S. ANY TIME THE CONTRACTOR IS WORKING WITHIN 200' OF THE RUNWAY CENTERLINE THE RUNWAY WILL BE CLOSED. THE RUNWAY WILL BE CLOSED ONLY DURING THE CONSTRUCTION DAY. WHENEVER A RUNWAY IS CLOSED, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO SHUT OFF THE RELATED LIGHTS AND NAVAIDS AND PLACE CROSSES AT EACH END OF THE RUNWAY. THE CROSSES WILL BE REMOVED WHEN THE RUNWAY IS RE-OPENED. AT THE END OF EACH CONSTRUCTION DAY THE CONTRACTOR WILL SMOOTH GRADE ALL AREAS WITHIN THE SAFETY AREA TO THE SATISFACTION OF THE RESIDENT ENGINEER, ALL WORK INCLUDED IN OPENING AND CLOSING THE RUNWAY WILL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

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.

CRITICAL POINT DATA

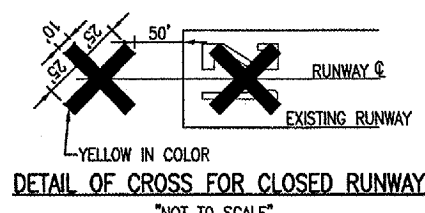
CENTERLINE OF TAXIWAY "B-2" STA. 2+00
LONGITUDE - 90° 48' 12.54"
LATITUDE - 39° 58' 57.37"
ELEV. 720.76

J.U.L.I.E. INFORMATION

COUNTY _____ BROWN
CITY _____ MT. STERLING
TOWNSHIP _____ LEE
SECTION NO. _____ 12 & 13
ADDRESS _____ MT. STERLING MUNICIPAL AIRPORT
145 W. MAIN STREET
MT. STERLING, ILLINOIS 62353-1296

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.



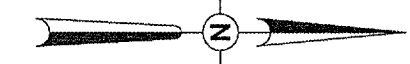
NOTE:

COST OF CONSTRUCTING, PLACING, MAINTAINING AND REMOVING CROSSES WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. THE CROSSES WILL BE YELLOW IN COLOR AND SHALL BE MADE OF A SUITABLE MATERIAL AS APPROVED BY THE AIRPORT MANAGER. THE CROSSES WILL BE PLACED OVER THE NUMERALS AND SECURED IN A MANNER APPROVED BY THE MANAGER. THE PROPOSED CROSSES WILL BE PLACED EACH DAY THE RUNWAY IS CLOSED AND REMOVED WHEN THE RUNWAY IS RE-OPENED. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PLACEMENT AND REMOVAL OF THE CROSSES. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

LEGEND

- EXISTING IMPROVEMENTS
- PROPOSED IMPROVEMENTS
- EXISTING BUILDINGS
- PROPOSED HAUL ROUTE AND EQUIPMENT PARKING AREA
- PROPOSED BENCHMARK
- PROPOSED LIGHTED BARRICADES OR TRAFFIC CONES

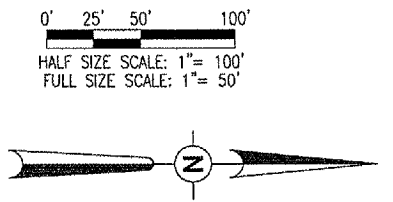
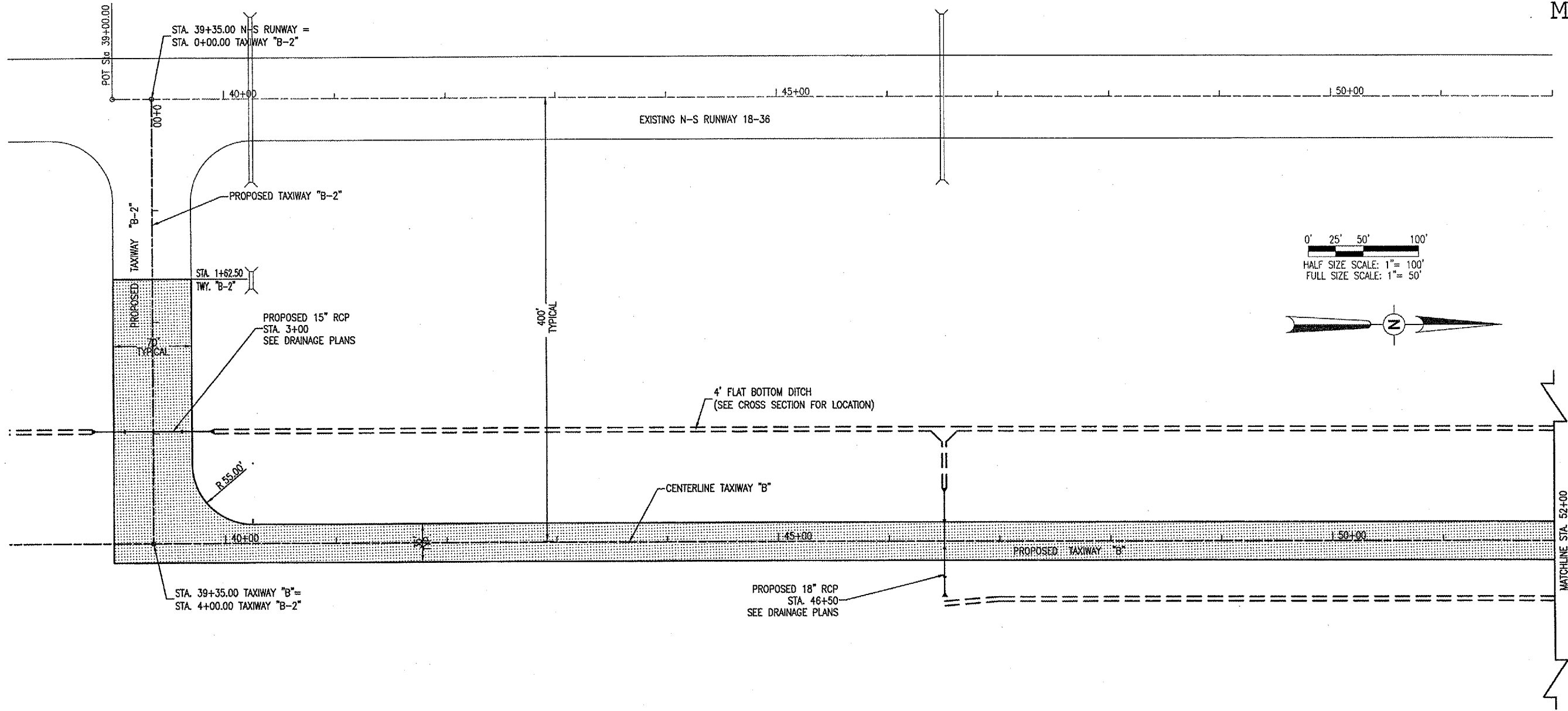
0' 400' 800'
HALF SIZE SCALE: 1" = 800'
FULL SIZE SCALE: 1" = 400'



BENCHMARK DATA		
NO.	DESCRIPTION	ELEV.
1	CB-3 - CHSLD SQUARE CENTER OF CONCRETE HEADWALL SOUTH SIDE OF TAXIWAY TO RUNWAY 18-36 ±STA. 64+25, 250.9' RT	726.20
2	CB-5 - CHSLD SQUARE CENTER OF CONCRETE HEADWALL, 1ST HEADWALL SOUTH OF TAXIWAY ON EAST SIDE OF RUNWAY 18-36 ±STA. 58+50, 75' RT	726.81
3	CB-6 - CHSLD SQUARE CENTER OF CONCRETE HEADWALL, 2ND HEADWALL SOUTH OF TAXIWAY ON EAST SIDE OF RUNWAY 18-36 ±STA. 46+50, 75.2' RT	722.30
4	CB-7 - CHSLD SQUARE CENTER OF CONCRETE HEADWALL, 3RD HEADWALL SOUTH OF TAXIWAY ON THE WEST SIDE OF RUNWAY 18-36 ±STA. 40+25, 74.9' LT	721.65

DATE	REVISION								
<p>MT. STERLING MUNICIPAL AIRPORT</p> <p>MT. STERLING, ILLINOIS</p> <p>IL PROJ.: 163-3431 A.I.P. PROJ.: 3-17-0417-B6</p>									
<p>PARALLEL TAXIWAY TAXIWAY "B"</p> <p>PROPOSED SAFETY PLAN</p>									
<p>3</p> <p>3 of 57 sheets</p>									

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 IEL Project No. 618-051XX
 Drawing R-003SEY
 Scale 1"=400'
 Date 04/28/05
 LAYOUT JEO 03/14/05
 DRAWN JEO 03/21/05
 REVIEWED CAH 05/17/05
HANSON
 Hanson Professional Services Inc.
 1525 South Sixth Street
 Springfield, Illinois 62703-2886
 Chicago Nationwide



SURVEY CONTROL POINTS			
LOCATION	STATION	NORTHING	EASTING
RUNWAY 18-36	39+00.00	1,208,138.383	2,117,934.538
RUNWAY 18-36	79+00.34	1,212,137.640	2,118,027.830
TAXIWAY "B"	39+35.00	1,208,164.050	2,118,335.250
TAXIWAY "B"	64+74.13	1,210,702.490	2,118,394.460

LEGEND

EXISTING IMPROVEMENTS

PROPOSED IMPROVEMENTS

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DATE	REVISION	BY

MT. STERLING MUNICIPAL AIRPORT
 MT. STERLING, ILLINOIS
 ILL. PROJ.: 163-3431 A.I.P. PROJ.: 3-17-0417-B6

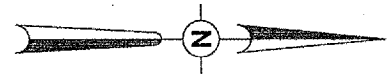
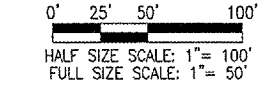
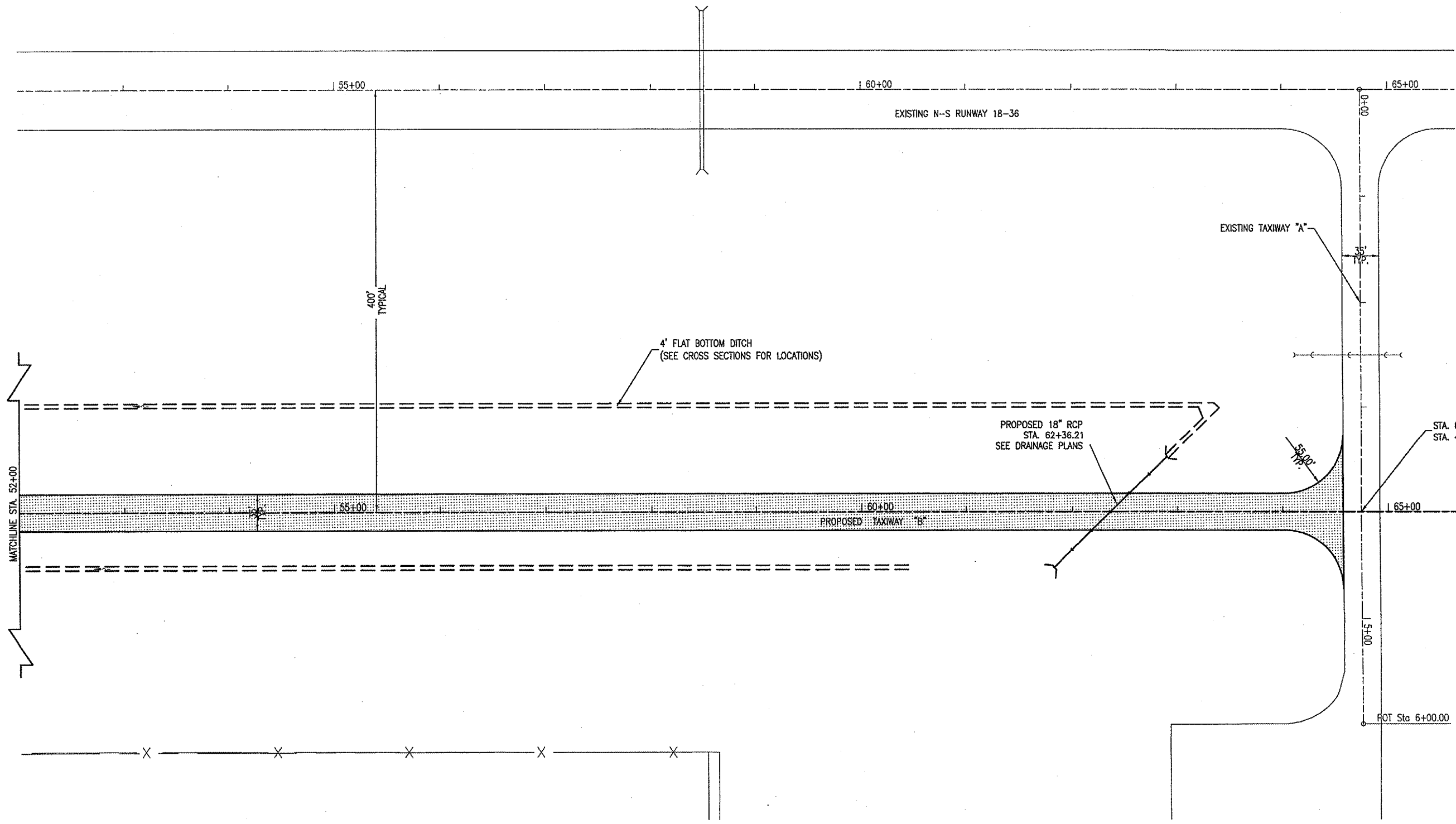
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Plan No. R-131DRN	Scale 1"=50'
Date 04/28/05	
LAYOUT	JED 03/14/05
DRAWN	JED 03/21/05
REVIEWED	CAH 05/17/05

HANSON
 Hanson Professional Services Inc.
 1525 South Sixth Street
 Springfield, Illinois 62703-2886
 Offices Nationwide

PARALLEL TAXIWAY
 TAXIWAY "B"
 PROPOSED
 CONSTRUCTION PLAN
 STA. 39+00 TO STA. 52+00

07/13/2005, 02:28 PM Bck

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LEGEND

	EXISTING IMPROVEMENTS
	PROPOSED IMPROVEMENTS

REVISION	DATE	BY

MT. STERLING MUNICIPAL AIRPORT
 MT. STERLING, ILLINOIS
 ILL. PROJ.: 163-3431 A.I.P. PROJ.: 3-17-04-17-B6

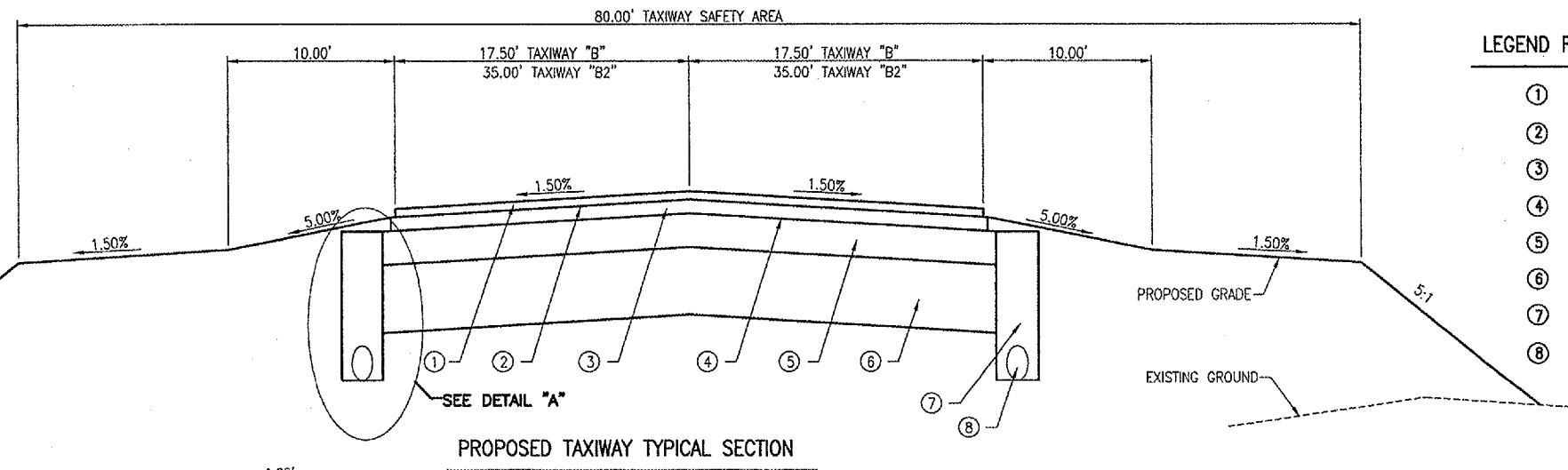
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File Name: R-131DRN	
Scale: 1"=50'	
Date: 04/28/05	
LAYOUT	JEO 03/14/05
DRAWN	JEO 03/21/05
REVIEWED	CHH 05/17/05

HANSON
 Hanson Professional Services Inc.
 1525 South Sixth Street
 Springfield, Illinois 62703-2885
 Offices Nationwide

PARALLEL TAXIWAY
 TAXIWAY "B"
 PROPOSED
 CONSTRUCTION PLAN
 STA. 52+00 TO STA. 65+00

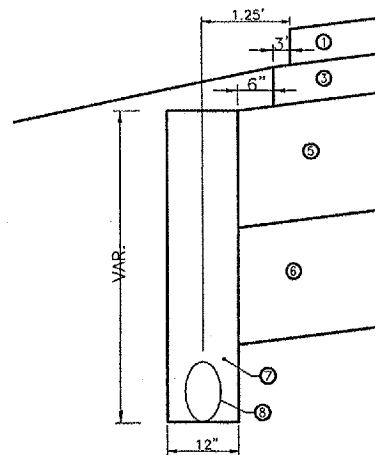
LEGEND FOR PROPOSED TAXIWAY TYPICAL SECTION

- ① PROPOSED 1 1/2" 401 BITUMINOUS SURFACE COURSE
- ② PROPOSED BITUMINOUS TACK COAT (0.15 GAL./S.Y.)
- ③ PROPOSED 2 1/2" 201 BITUMINOUS BASE COURSE
- ④ PROPOSED BITUMINOUS PRIME COAT (0.50 GAL./S.Y.)
- ⑤ PROPOSED 6" CRUSHED AGGREGATE BASE COURSE
- ⑥ PROPOSED 12" LIME MODIFIED SUBGRADE
- ⑦ PROPOSED POROUS BACKFILL
- ⑧ PROPOSED 6" PERFORATED UNDERDRAIN W/SOCK



PROPOSED TAXIWAY TYPICAL SECTION

"NOT TO SCALE"



DETAIL "A"
"NOT TO SCALE"

155-LIME-MODIFIED SUBGRADE

THE PROPOSED LIME-MODIFIED SUBGRADE SHALL BE COMPLETED IN ACCORDANCE WITH ITEM 155 "LIME TREATED SUBGRADE" AS STATED ON PAGE 32 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004 FOR AIRCRAFT WEIGHING LESS THAN 60,000 LBS.

THIS ITEM OF WORK SHALL CONSIST OF CONSTRUCTING A 12" DEEP COURSE OF A MIXTURE OF SOIL, LIME AND WATER IN ACCORDANCE WITH THE RATES AND METHODS DESIGNED IN THE SPECIFICATIONS (EITHER THE WET OR DRY METHODS IS ACCEPTABLE). USE CAUTION WHEN TILLING OVER PROPOSED PIPES TO ENSURE PROPER CLEARANCES.

THE SUBGRADE WILL BE CUT PRIOR TO LIME-MODIFICATION.

ANY SWELL WILL BE REMOVED BY THE CONTRACTOR AND DISPOSED OF ON THE AIRPORT SITE AS DIRECTED BY THE RESIDENT ENGINEER. NO ADDITIONAL PAYMENT WILL BE MADE FOR REMOVAL OF SWELL.

THE LIME-MODIFIED SUBGRADE SHALL BE CUT TO FINISHED ELEVATION UPON COMPLETION (0.05+) IN ACCORDANCE TO SECTION 152-2.11 OF THE SPECIFICATIONS. THE LIME-MODIFIED SUBGRADE WILL BE WET CURED FOR 2 DAYS.

THE CONTRACTOR WILL LIME-MODIFY THE SUBGRADE FROM THE CENTERLINE TO 1.25' OUTSIDE OF THE PROPOSED PAVEMENT SURFACE ON BOTH SIDES.

THE LIME-MODIFIED SUBGRADE WILL BE COMPACTED IN ACCORDANCE WITH PROCEDURES FOR AIRCRAFT WEIGHING LESS THAN 60,000 POUNDS.

THE LIME, BY-PRODUCT LIME (CODE L), WAS CALCULATED AT 6% OF THE DRY SOIL WEIGHT AT MAXIMUM DENSITY. THE ACTUAL AMOUNT WILL BE DETERMINED PRIOR TO THE START OF CONSTRUCTION, BUT SHALL NOT EXCEED 6% BY WEIGHT. THE COST OF LIME WILL BE PAID FOR UNDER ITEM AR155540.

THE SOIL TEST INDICATES AN AVERAGE SOIL WEIGHT OF 103 POUNDS PER CUBIC FOOT. THEREFORE, THE MAXIMUM TONNAGE OF LIME WILL BE 352 TONS.

THE PROPOSED LIME-MODIFIED SUBGRADE WILL BE PAID FOR UNDER ITEMS:

AR155712 LIME-MODIFIED SUBGRADE-12" _____ 12,641 S.Y.
AR155540 BY-PRODUCT LIME _____ 352 TONS

209 CRUSHED AGGREGATE BASE COURSE

THE CRUSHED AGGREGATE BASE COURSE (209) SHALL BE PLACED IN ACCORDANCE WITH ITEM 209 "CRUSHED AGGREGATE BASE COURSE" AS STATED ON PAGE 45 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THE BASE COURSE MATERIAL (CA-6) WILL BE USED TO CONSTRUCT A BASE COURSE FOR THE PROPOSED TAXIWAY PAVEMENT, THE BASE COURSE WILL BE 6 INCHES IN DEPTH AND COMPACTED TO NOT LESS THAN 95 PERCENT DENSITY.

THE PROPOSED AGGREGATE FOR THE BASE COURSE MATERIAL SHALL MEET THE REQUIREMENTS OF GRADATION B IN TABLE 1 OF THE SUPPLEMENTAL SPECIFICATIONS.

209 3.2 EQUIPMENT. ADD THE FOLLOWING PARAGRAPHS TO THIS SECTION:

PROVISIONS SHALL BE MADE BY THE CONTRACTOR FOR FURNISHING WATER AT THE PLANT AND AT THE SITE OF THE WORK BY EQUIPMENT OF AMPLE CAPACITY AND OF SUCH DESIGN AS TO ASSURE UNIFORM MIXING AND APPLICATION.

THE CONTRACTOR WILL PROVIDE THE RESIDENT ENGINEER A PROCTOR CURVE SHOWING OPTIMUM DENSITY AND MOISTURE FOR THE SUPPLIED BASE COURSE MATERIAL.

THE COMPACTION CONTROL TEST TO BE USED SHALL BE FAA COMPACTION CONTROL TEST T-611 FOR AIRCRAFT WEIGHING LESS THAN 60,000 LBS.

209-4.1. DELETE THE FIFTH SENTENCE AND REPLACE IT WITH THE FOLLOWING:

IF AT THE TIME THE AGGREGATES ARE WEIGHED THEY CONTAIN MORE THAN SIX (6) PERCENT OF ABSORBED AND FREE MOISTURE BY WEIGHT, A DEDUCTION FOR THE MOISTURE IN EXCESS OF THIS AMOUNT SHALL BE MADE IN DETERMINING THE PAY QUANTITY.

602-BITUMINOUS PRIME COAT

THE BITUMINOUS PRIME COAT (602) SHALL BE PLACED IN ACCORDANCE WITH ITEM AR602 "BITUMINOUS PRIME COAT" AS STATED ON PAGE 58 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THE PROPOSED BITUMINOUS PRIME COAT SHALL BE PLACED ON THE PROPOSED AGGREGATE BASE COURSE PRIOR TO THE PLACEMENT OF THE FIRST LIFT OF PROPOSED BITUMINOUS BASE COURSE. THE PROPOSED AGGREGATE BASE COURSE SHALL HAVE A PRIME COAT OF BITUMINOUS MATERIAL APPLIED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIAL PROVISIONS.

THE PROPOSED BITUMINOUS PRIME COAT WILL BE PAID FOR UNDER ITEM:

AR602510 BITUMINOUS PRIME COAT _____ 6,012 GAL.

401-BITUMINOUS SURFACE COURSE

THE BITUMINOUS SURFACE COURSE (401) SHALL BE PLACED IN ACCORDANCE WITH ITEM AR401001 BITUMINOUS SURFACE COURSE-METHOD 1 AS STATED ON PAGE 245 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THIS ITEM OF WORK SHALL CONSIST OF CONSTRUCTING ONE LIFT OF A BITUMINOUS SURFACE COURSE (1 1/2 IN. DEPTH) ON THE PROPOSED BITUMINOUS SURFACE COURSE FOR THE PROPOSED TAXIWAY PAVEMENT.

THE PROPOSED BITUMINOUS SURFACE COURSE WILL BE DESIGNED TO A MARSHALL DESIGN OF LESS THAN 60,000 POUNDS.

401-4.9 TRANSPORTING, SPREADING, AND FINISHING. DELETE ANY REFERENCE TO STRINGLINE AND SUBSTITUTE THE FOLLOWING:

WHEN HAND SPREADING IS PERMITTED, THE MIXTURE WILL BE DISTRIBUTED AND SPREAD USING HAND TOOLS. WHEN THE WORK IS COMPLETED, THE LAYER WILL HAVE THE REQUIRED THICKNESS AND CONFORM TO THE GRADE AND SURFACE CONTOUR SHOWN ON THE PLANS.

401 4.12 SHAPING EDGES. ADD THE FOLLOWING TO THIS PARAGRAPH:

ALL PAVEMENT EDGES (LONGITUDINAL, RADIUS, AND PAVEMENT ENDS) MUST BE LEFT IN PROPER ALIGNMENT AS SHOWN ON THE PLANS. THIS MAY BE ACCOMPLISHED BY THE TRIMMING METHOD OUTLINED ABOVE OR AT THE CONTRACTOR'S OPTION BY SAWING AFTER THE PAVING HAS BEEN COMPLETED. NO ADDITIONAL COMPENSATION WILL BE MADE IF THE SAWING METHOD IS USED.

603-BITUMINOUS TACK COAT

THE BITUMINOUS TACK COAT (603) SHALL BE PLACED IN ACCORDANCE WITH ITEM AR603 "BITUMINOUS TACK COAT" AS STATED ON PAGE 62 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THE PROPOSED BITUMINOUS TACK COAT SHALL BE PLACED ON THE PROPOSED BITUMINOUS BASE COURSE PRIOR TO THE PLACEMENT OF THE PROPOSED BITUMINOUS SURFACE COURSE. THE PROPOSED BITUMINOUS PAVEMENT SHALL HAVE A TACK COAT OF BITUMINOUS MATERIAL APPLIED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIAL PROVISIONS.

THE ACTUAL APPLICATION RATES WILL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

THE PROPOSED BITUMINOUS TACK COAT WILL BE PAID FOR UNDER ITEM:

AR603510 BITUMINOUS TACK COAT _____ 1,781 GAL.

201-BITUMINOUS BASE COURSE NOTES

THE BITUMINOUS BASE COURSE (201) SHALL BE PLACED IN ACCORDANCE WITH ITEM AR201001 "BITUMINOUS BASE COURSE-METHOD 1" AS STATED ON PAGE 185 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THIS ITEM OF WORK SHALL CONSIST OF CONSTRUCTING ONE LIFT OF BITUMINOUS BASE COURSE (2-1/2 INCH DEPTH) ON THE PROPOSED CRUSHED AGGREGATE BASE COURSE FOR THE PROPOSED TAXIWAY.

THE PROPOSED BITUMINOUS BASE COURSE WILL BE DESIGNED TO A MARSHALL DESIGN OF LESS THAN 60,000 POUNDS.

BY	
REVISION	
DATE	
MT. STERLING MUNICIPAL AIRPORT MT. STERLING, ILLINOIS A.I.P. PROJ.: 3-17-0417-B6 ILL. PROJ.: 163-3431	
H.E.L. Project No. 618-051XY Filename: R-TYPESEC.dgn Scale Date: 07/13/2005, 02:50 PM	LAYOUT JEO 03/14/05 DRAWN JEO 03/21/05 REVIEWED CAH 05/17/05
Hanson Professional Services Inc. 1525 South Sixth Street Springfield, Illinois 62703-2886 Offices Nationwide	
PARALLEL TAXIWAY TAXIWAY "B" PROPOSED TYPICAL SECTION	6 6 of 57 sheets

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POT Sta. 39+00.00

40+00

45+00

50+00

00+00

40+00

45+00

50+00

TREE REMOVAL SCHEDULE

DIA.	QUANTITY
4"	4 TREES
6"	10 TREES
8"	9 TREES
10"	2 TREES
12"	1 TREE
18"	4 TREES
24"	4 TREES
30"	4 TREES
36"	4 TREES
48"	3 TREES

41+26.90
88.59 LT

42+00.94
88.59 LT

41+26.90
223.34 RT

42+00.94
223.34 RT

LIMITS OF CLEARING AND GRUBBING (0.53 ACRE).
SEE TREE SCHEDULE FOR TREES SIZES AND QUANTITIES
INCLUDED IN THE CLEARING AREA.

CLEARING AND GRUBBING NOTES

THE AREAS DESIGNATED FOR CLEARING AND GRUBBING ARE SHOWN ON THIS SHEET. ALL OF THESE AREAS ARE LOCATED ON EXISTING AIRPORT PROPERTY.

ALL CLEARING AND GRUBBING WILL BE LOCATED BY THE RESIDENT ENGINEER.

ALL AREAS DESIGNATED FOR CLEARING AND GRUBBING ARE SHOWN ON THIS SHEET AS [---]

NO CUTTING OR TRIMMING OF TREES SHALL OCCUR BETWEEN APRIL 1 AND SEPTEMBER 30 DUE TO THE POTENTIAL IMPACT TO THE INDIANA BAT.

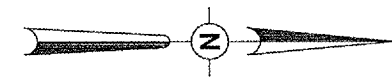
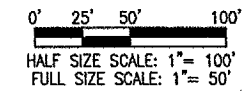
IF PERMITTED BY THE PERTINENT GOVERNING AUTHORITIES, THE CONTRACTOR MAY BURN AND BURY THE CLEARED TREES ON AIRPORT PROPERTY. IF BURNING AND BURIAL IS NOT PERMITTED, THE CONTRACTOR MUST DISPOSE OF THE TREES OFF THE AIRPORT PROPERTY. THE BURNING AND BURIAL LOCATION OF THE TREES WILL BE APPROVED BY THE ENGINEER.

THERE WILL BE AT LEAST TWO FEET OF EARTH PLACED OVER THE BURIED MATERIAL. ALL BURIAL AREAS WILL BE GRADED AND SEEDED.

ALL AREAS BEING CLEARED AND GRUBBED WILL BE SMOOTH GRADED AND SEEDED IN ACCORDANCE WITH ITEM 901 "SEEDING".

CLEARING, GRUBBING AND DISPOSAL OF THE DESIGNATED AREAS WILL BE PAID FOR UNDER:

ITEM AR151450 "CLEARING AND GRUBBING" _____ 0.53 ACRES



LEGEND

- [Solid line] EXISTING PAVEMENT
- [Dashed line] PROPOSED PAVEMENT
- [Dotted line] PROPOSED CLEARING AREA
- [Line with 'X' marks] EXISTING FENCE
- [Circle with 'X'] PROPOSED TREE REMOVAL

MT. STERLING MUNICIPAL AIRPORT

MT. STERLING, ILLINOIS

A.I.P. PROJ.: 3-17-0417-B6

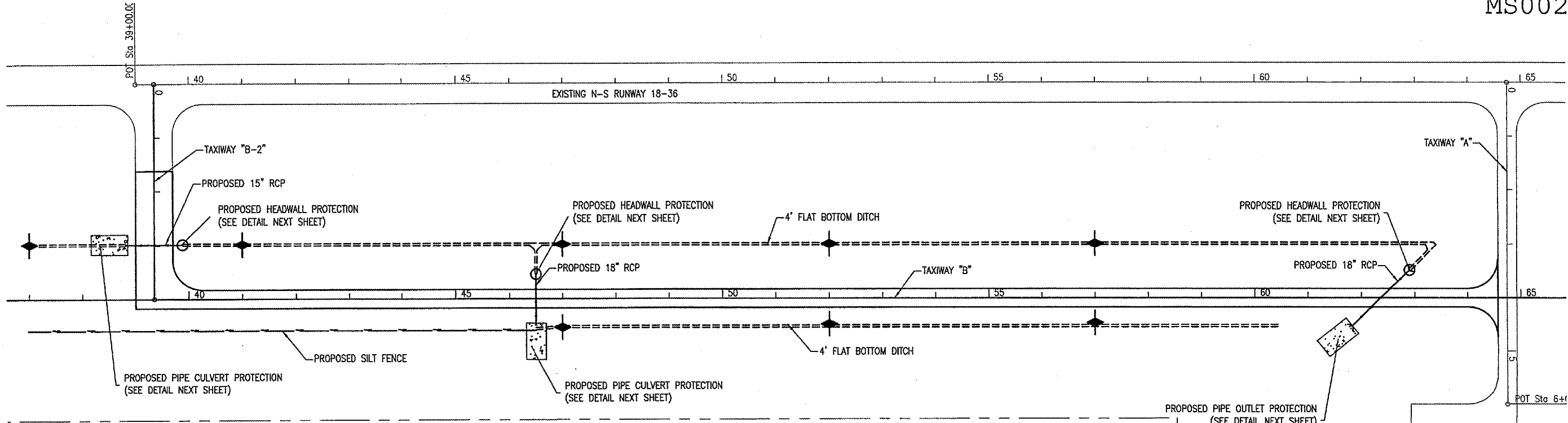
HEL Project No. 018-051XY	JEO	03/14/05
Drawn R-151MRK	JMB	03/21/05
Scale: 1"=50'	CAH	05/17/05
Date: 05/02/05	REVIEWED	



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1525 South Sixth Street
Springfield, Illinois 62703-2886
Offices Nationwide

PARALLEL TAXIWAY
TAXIWAY "B"

PROPOSED
CLEARING
PLAN



NOTES

THE CONTRACTOR IS REQUIRED TO CONDUCT HIS CONSTRUCTION IN ACCORDANCE WITH THE LATEST REVISION OF THE ILLINOIS EPA PUBLICATION "STANDARDS & SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL". COPIES OF THESE STANDARDS CAN BE OBTAINED FROM THE ILLINOIS EPA.

THE CONTRACTOR IS REQUIRED TO COMPLY WITH THE REQUIREMENTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER PERMIT FOR CONSTRUCTION SITE ACTIVITIES.

AN NPDES PERMIT WILL BE APPLIED FOR AND OBTAINED PRIOR TO THE START OF CONSTRUCTION.

STRAW BALE DAMS, STRUCTURE PROTECTION, AND SILT FENCE WILL BE INSTALLED AT THE LOCATIONS SHOWN AND ACCORDING TO THE DETAILS PROVIDED IN THIS EROSION CONTROL PLAN.

WHEN CONSTRUCTION ACTIVITIES ARE TEMPORARILY CEASED FOR MORE THAN 21 DAYS, THE ENTIRE DISTURBED AREA SHALL BE SEEDED WITH A TEMPORARY SEED MIXTURE IN ACCORDANCE WITH IDOT SPECIFICATIONS. THE TEMPORARY SEEDING SHALL BE COMPLETED WITHIN 14 DAYS OF THE SUSPENSION OF WORK.

THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTING, MAINTAINING, AND REMOVING ALL EROSION CONTROL MEASURES.

STRAW BALE DITCH CHECKS, SILT FENCE, END SECTION AND HEADWALL PROTECTION ARE DETAILED AS DEFINED IN THE ILLINOIS HANDBOOK FOR EROSION CONTROL.

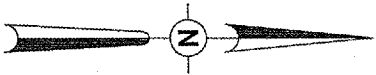
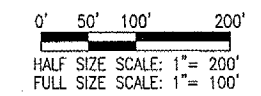
INFORMATION ON THE REFERENCED PERMITS MAY BE OBTAINED FROM:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF WATER POLLUTION CONTROL
1021 NORTH GRAND AVENUE EAST
SPRINGFIELD, ILLINOIS 62702

STATION	OFFSET	STATION	OFFSET
37+00	102' LT	52+00	102' LT
41+00	102' LT	52+00	52' RT
47+00	102' LT	57+00	102' LT
47+00	52' RT	57+00	52' RT

STATION	TO STATION	LENGTH
37+00, 60'RT.	46+50, 60'RT.	950

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
AR156510	SILT FENCE	L.F.	950
AR156511	DITCH CHECK	EACH	8
AR156521	HEADWALL PROTECTION	EACH	3



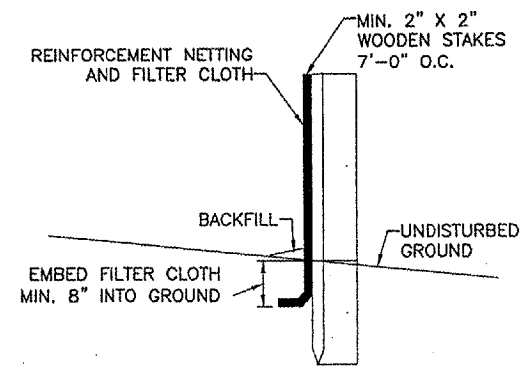
LEGEND

- EXISTING IMPROVEMENTS
- PROPOSED IMPROVEMENTS
- EXISTING CONTOURS
- PROPOSED DITCH LINE
- PROPOSED STRUCTURE PROTECTION
- PROPOSED DITCH CHECK
- PROPOSED SILT FENCE

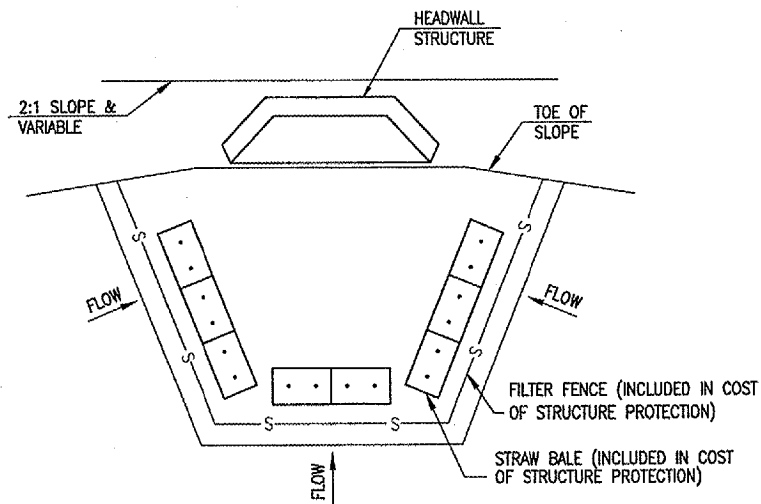
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BY		REVISION		DATE	
<p>MT. STERLING MUNICIPAL AIRPORT MT. STERLING, ILLINOIS</p>					
<p>ILL. PROJ.: 163-3431 A.I.P. PROJ.: 3-17-0417-B6</p>					
<p>FILE PROJECT: B18-05TX FILENAME: B-104ECP SCALE: 1"=100' DATE: 04/28/05</p>		<p>LAYOUT: JEO 03/14/05 DRAWN: JEO 03/21/05 REVIEWED: CAH 05/17/05</p>		<p>HANSON Hanson Professional Services Inc. 1525 South Sixth Street Springfield, Illinois 62703-2886 Offices Nationwide</p>	
<p>PARALLEL TAXIWAY TAXIWAY "B"</p>			<p>PROPOSED STORMWATER POLLUTION PREVENTION PLAN</p>		
<p>8 8 of 57 sheets</p>					

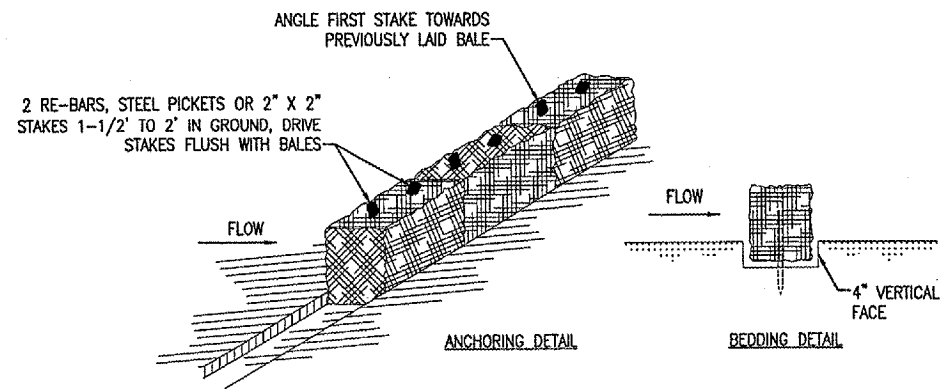


FILTER FENCE DETAIL
"NOT TO SCALE"



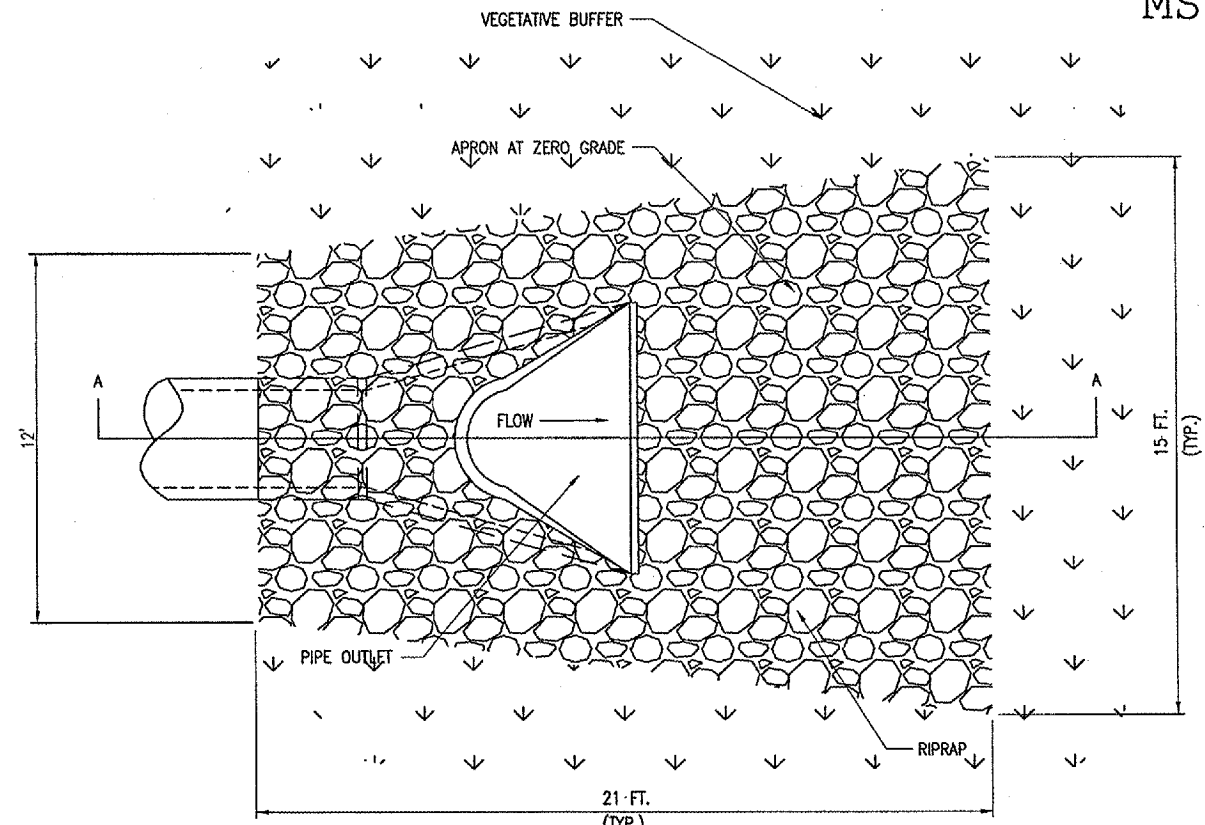
HEADWALL PROTECTION

"NOT TO SCALE"
CONC. HEADWALL SHOWN. DETAIL
SIMILAR FOR FLARED END SECTION.



STRAW BALE DITCH CHECK DETAIL

"NOT TO SCALE"



PIPE OUTLET PROTECTION

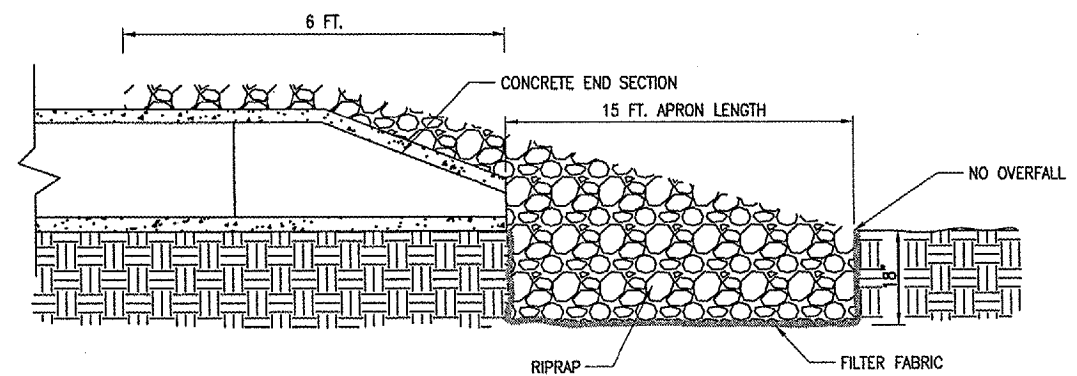
"NOT TO SCALE"

FLARED END SECTION SHOWN. DIMENSIONS SIMILAR FOR CONCRETE HEADWALL.

NOTES

PERMANENT RIPRAP APRONS SHALL BE PLACED AT EACH OF THE DOWNSTREAM END SECTIONS OR HEADWALLS. THE RIPRAP SHALL BE PLACED ON FILTER FABRIC NEATLY AND IN A WORKMANLIKE MANNER CONFORMING TO THE PROPOSED GRADES AND TO THE SATISFACTION OF THE RESIDENT ENGINEER. RIPRAP SHALL BE PAID FOR UNDER ITEM AR156540.

DIMENSIONS OF RIPRAP ARE AS SHOWN UNLESS NOTED OTHERWISE.



PIPE OUTLET PROTECTION SECTION A-A

"NOT TO SCALE"

REVISION	DATE

BY
DATE
MT. STERLING MUNICIPAL AIRPORT
MT. STERLING, ILLINOIS
A.I.P. PROJ.: 3-17-0417-B6
IL PROJ.: 03-3431

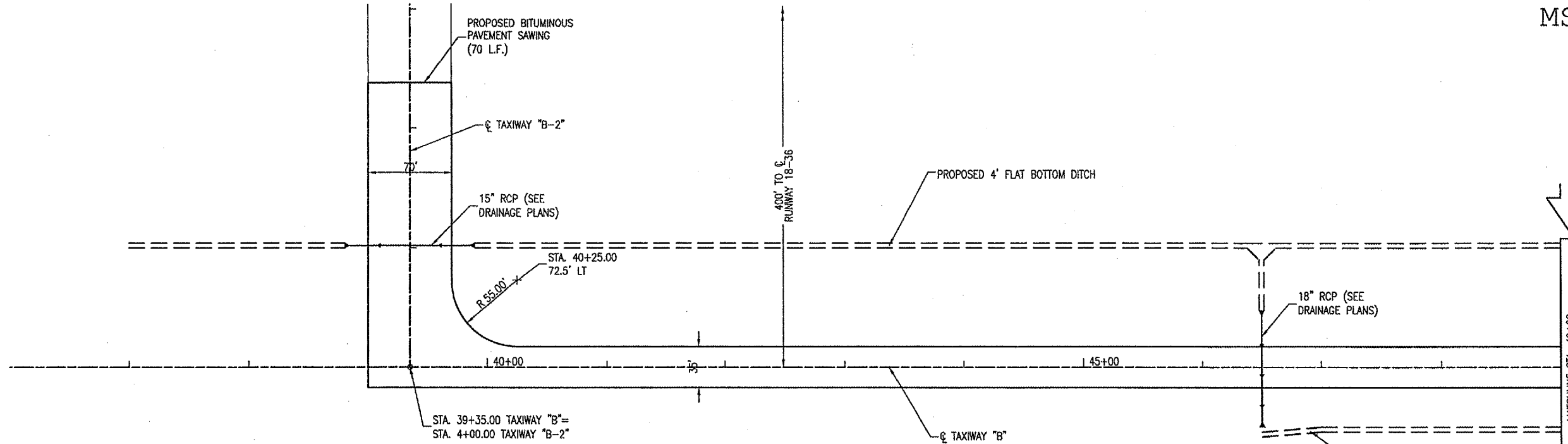
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Elaboration R-531SWP	JFO	03/21/05
Scale NOT TO SCALE	CAH	05/17/05
Date 04/28/05		
LAYOUT		
DRAWN		
REVIEWED		

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PARALLEL TAXIWAY
TAXIWAY "B"
PROPOSED
EROSION CONTROL
DETAILS

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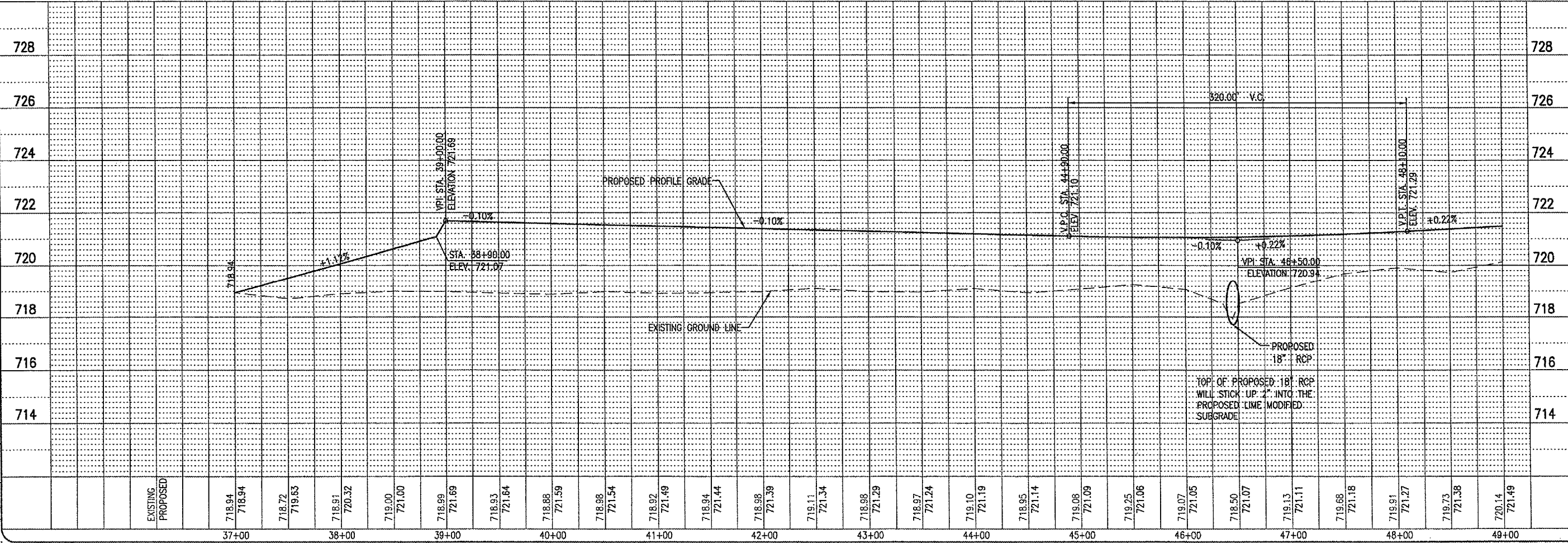


SURVEY CONTROL POINTS			
LOCATION	STATION	NORTHING	EASTING
RUNWAY 18-36	39+00.00	1,208,138.383	2,117,934.538
RUNWAY 18-36	79+00.34	1,212,137.640	2,118,027.830
TAXIWAY "B"	39+35.00	1,208,164.050	2,118,335.250
TAXIWAY "B"	64+74.13	1,210,702.490	2,118,394.460



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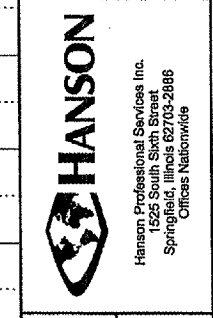
MT. STERLING, ILLINOIS

IL PROJ.: 163-3431 A.I.P. PROJ.: 3-17-0147-B6

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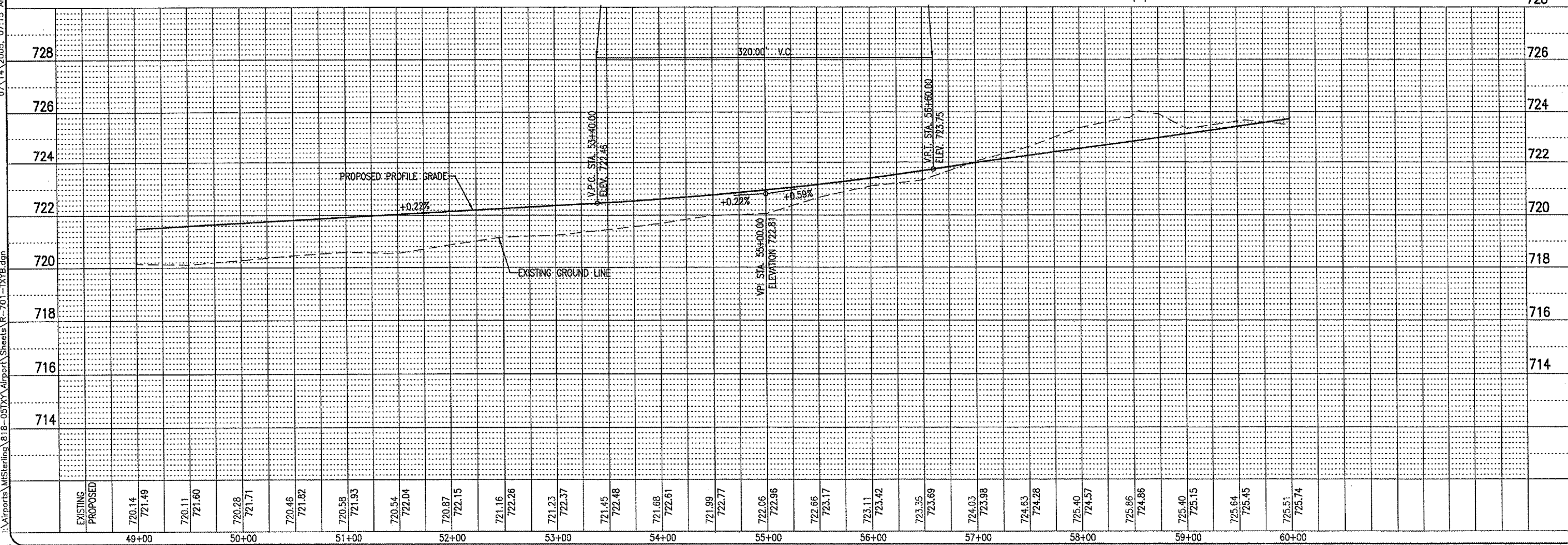
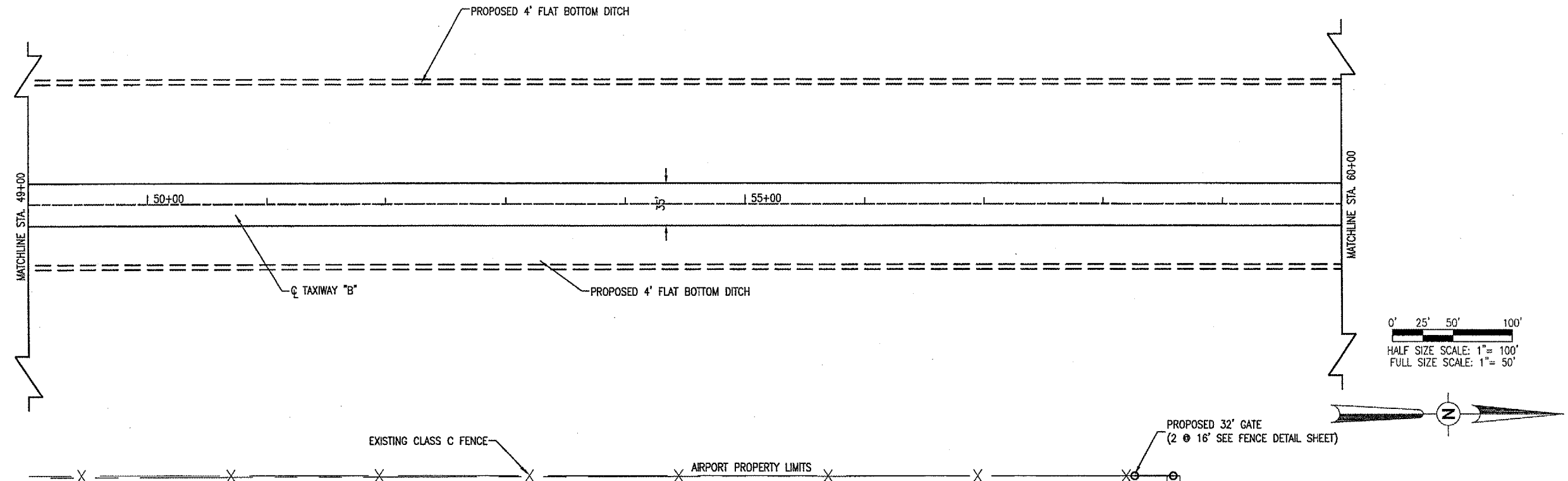


PARALLEL TAXIWAY "B"

PROPOSED PLAN & PROFILE

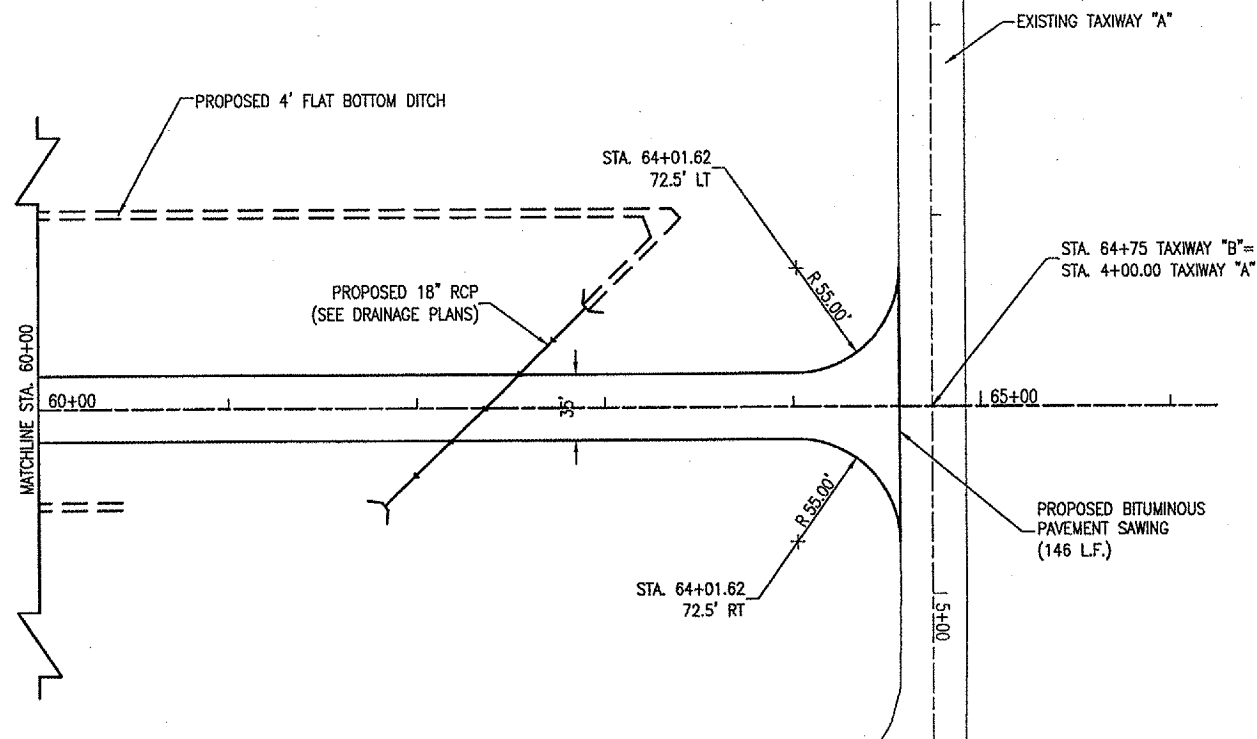
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DATE		REVISION		BY
<p>MT. STERLING MUNICIPAL AIRPORT</p> <p>MT. STERLING, ILLINOIS</p> <p>IL PROJ.: 163-3431 A.I.P. PROJ.: 3-17-0147-B6</p>				
<p>HEL Project No. 018-063X</p> <p>Filename: R-701-TXB.dgn</p> <p>Scale: SCALE</p> <p>Date: 07/14/2005, 07:15 AM</p>		<p>LAYOUT JEO 03/14/05</p> <p>DRAWN JMB 03/21/05</p> <p>REVIEWED CAH 05/17/05</p>		
<p>HANSON</p> <p>Hanson Professional Services Inc. 1525 South Sixth Street Springfield, Illinois 62703-2886 Offices Nationwide</p>				
<p>PARALLEL TAXIWAY TAXIWAY "B"</p> <p>PROPOSED PLAN & PROFILE STA. 49+00 TO STA. 60+00</p>		<p>728</p> <p>726</p> <p>724</p> <p>722</p> <p>720</p> <p>718</p> <p>716</p> <p>714</p>		
<p>11</p> <p>11 of 57 sheets</p>		<p>728</p> <p>726</p> <p>724</p> <p>722</p> <p>720</p> <p>718</p> <p>716</p> <p>714</p>		

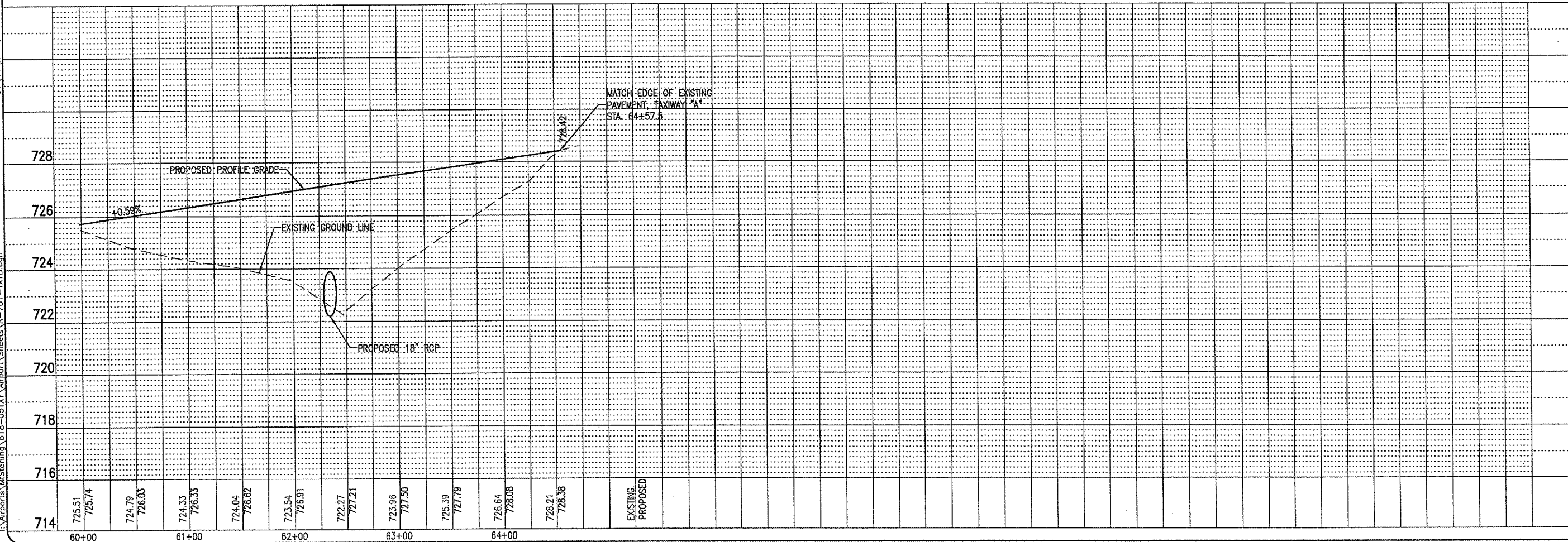
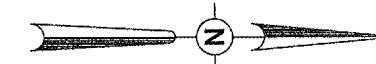
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PAVEMENT SAWING

THE PROPOSED BITUMINOUS PAVEMENT SAWING REQUIRED ON THIS PROJECT SHALL BE PAID FOR UNDER ITEM AR401665 "BITUMINOUS PAVEMENT SAWING" PER LINEAR FOOT.

THE RESIDENT ENGINEER WILL MARK THE PAVEMENTS TO BE SAWED. PAVEMENT AND RUBBLE GENERATED FROM THE SAWING SHALL BE REMOVED FROM AIRPORT PROPERTY BY THE CONTRACTOR AT NO ADDITIONAL COST.



REVISION	DATE	BY

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 MT. STERLING, ILLINOIS
 I.L. PROJ.: 183-3431 A.I.P. PROJ.: 3-17-0147-B6

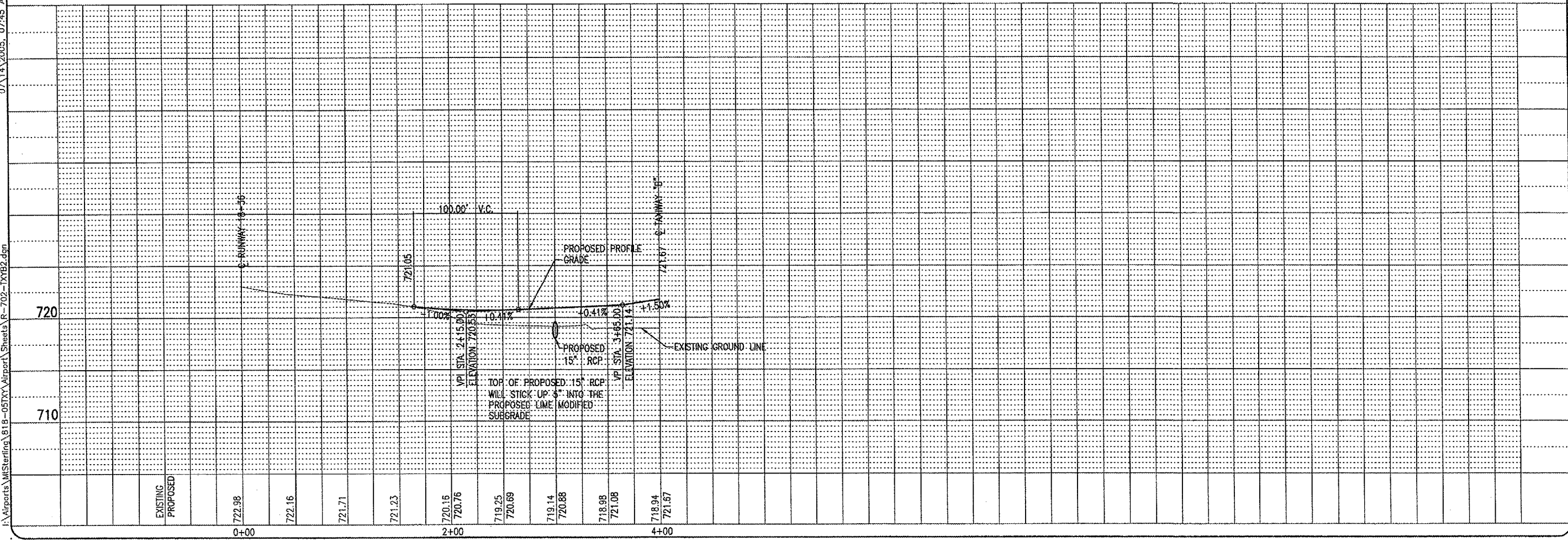
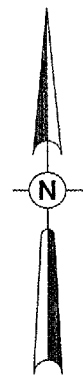
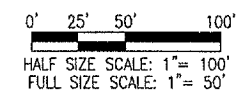
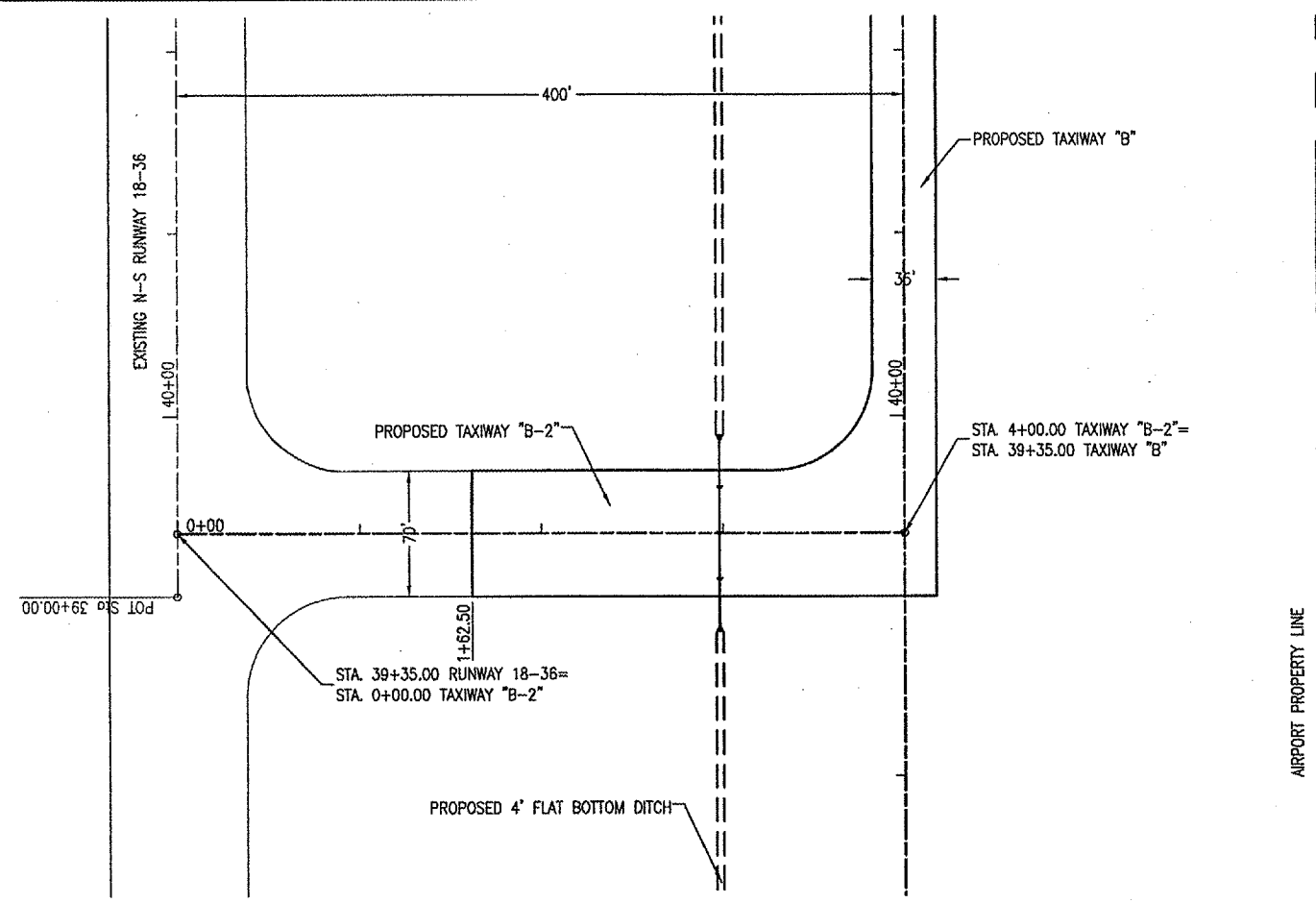
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FILENAME R-701-TXYB.dgn	LAYOUT JEO 03/14/05
SCALE	DRAWN JMB 03/21/05
DATE	REVIEWED CAH 05/17/05

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PARALLEL TAXIWAY "B"
 PROPOSED PLAN & PROFILE
 STA. 60+00 TO STA. 65+00

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MS002



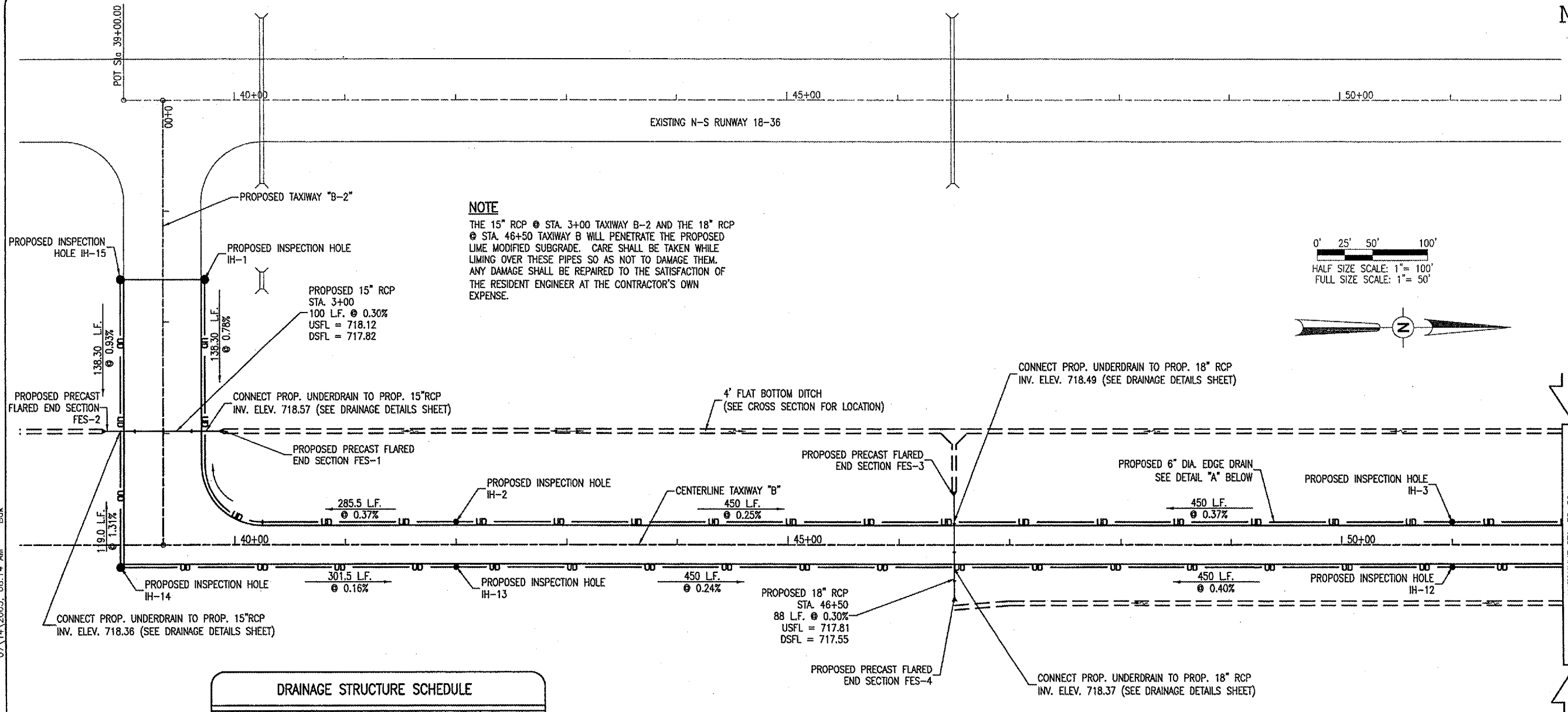
REVISION	DATE	BY

MT. STERLING MUNICIPAL AIRPORT
 MT. STERLING, ILLINOIS
 I.L. PROJ.: 183-3431 A.I.P. PROJ.: 3-17-0147-B6

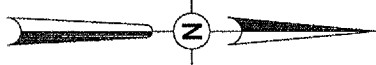
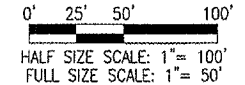
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SCALE	REVIEWED CAH 05/17/05

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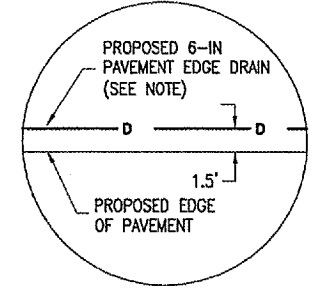
PARALLEL TAXIWAY
 TAXIWAY "B2"
 PROPOSED
 PLAN & PROFILE
 STA. 0+00 TO STA. 4+00



NOTE
 THE 15" RCP @ STA. 3+00 TAXIWAY B-2 AND THE 18" RCP @ STA. 46+50 TAXIWAY B WILL PENETRATE THE PROPOSED LIME MODIFIED SUBGRADE. CARE SHALL BE TAKEN WHILE LIMING OVER THESE PIPES SO AS NOT TO DAMAGE THEM. ANY DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT ENGINEER AT THE CONTRACTOR'S OWN EXPENSE.



DRAINAGE STRUCTURE SCHEDULE					
STRUCTURE	TYPE	STATION	OFFSET	INVERT ELEVATION	TOP ELEVATION
IH-1	B	1+61.7	36.5' LT	719.64	721.22
IH-2	B	42+00	19' LT	719.62	720.95
IH-3	B	51+00	19' LT	720.16	721.49
IH-4	B	55+50	19' LT	721.40	722.73
IH-5	B	60+00	19' LT	723.97	725.30
IH-6	A	62+57.3	19' LT	725.50	726.84
IH-7	C	64+53.7	72.5' LT	727.10	728.43
IH-8	C	64+53.8	72.5' RT	726.62	727.95
IH-9	A	62+15.2	19' RT	725.26	726.59
IH-10	B	60+00	19' RT	723.97	725.30
IH-11	B	55+50	19' RT	721.40	722.73
IH-12	B	51+00	19' RT	720.16	721.49
IH-13	B	42+00	19' RT	719.44	720.95
IH-14	B	38+98.5	19' RT	719.92	721.25
IH-15	B	1+61.7	36.5' RT	719.64	721.22
FES-1	15"	3+00	50' LT	718.12	
FES-2	15"	3+00	50' RT	717.82	
FES-3	15"	46+50	44' LT	717.81	
FES-4	15"	46+50	44' RT	717.55	
CHW-1	18"	62+90.00	52' LT	722.46	
CHW-2	18"	61+82.50	52' RT	722.08	



DETAIL A
 PAVEMENT EDGE DRAIN DETAIL
 NOT TO SCALE

NOTES
 ALL PROPOSED INSPECTION HOLES SHALL BE CONSTRUCTED SO THE TOP ELEVATION IS ONE INCH ABOVE FINISH GRADE.
 THE CONTRACTOR IS REQUIRED TO PROVIDE A 1/2" CHAMFER ON ALL EXPOSED EDGES OF INSPECTION HOLES.
 THE CAST IRON FRAME AND COVER FOR ALL INSPECTION HOLES SHALL BE NEENAH R-6013, DEETER 1810, EAST JORDAN 2790-6 OR APPROVED EQUAL.
 THE CONCRETE SHALL BE STRUCTURAL PORTLAND CEMENT CONCRETE (NON-REINFORCED) IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
 THE CONTRACTOR IS REQUIRED TO VERIFY EXISTING UNDERDRAIN ELEVATIONS PRIOR TO INSTALLING PROPOSED UNDERDRAINS & INSPECTION HOLES.

- LEGEND**
- EXISTING IMPROVEMENTS
 - PROPOSED IMPROVEMENTS
 - PROPOSED 6" P.E. TUBING (WRAPPED)
 - PROPOSED INSPECTION HOLE
 - PROPOSED RCP PIPE
 - PROPOSED PRECAST FLARED END SECTION
 - PROPOSED DITCH SUMMIT
 - DITCH FLOW

REVISION	DATE	BY

MT. STERLING MUNICIPAL AIRPORT
 MT. STERLING, ILLINOIS
 A.I.P. PROJ.: 163-3431 IL PROJ.: 3-17-0417-BE

DATE	BY	REVISION
03/14/05	JEO	LAYOUT
03/21/05	JEO	DRAWN
05/17/05	CAH	REVIEWED

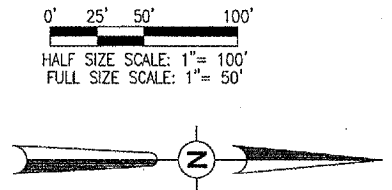
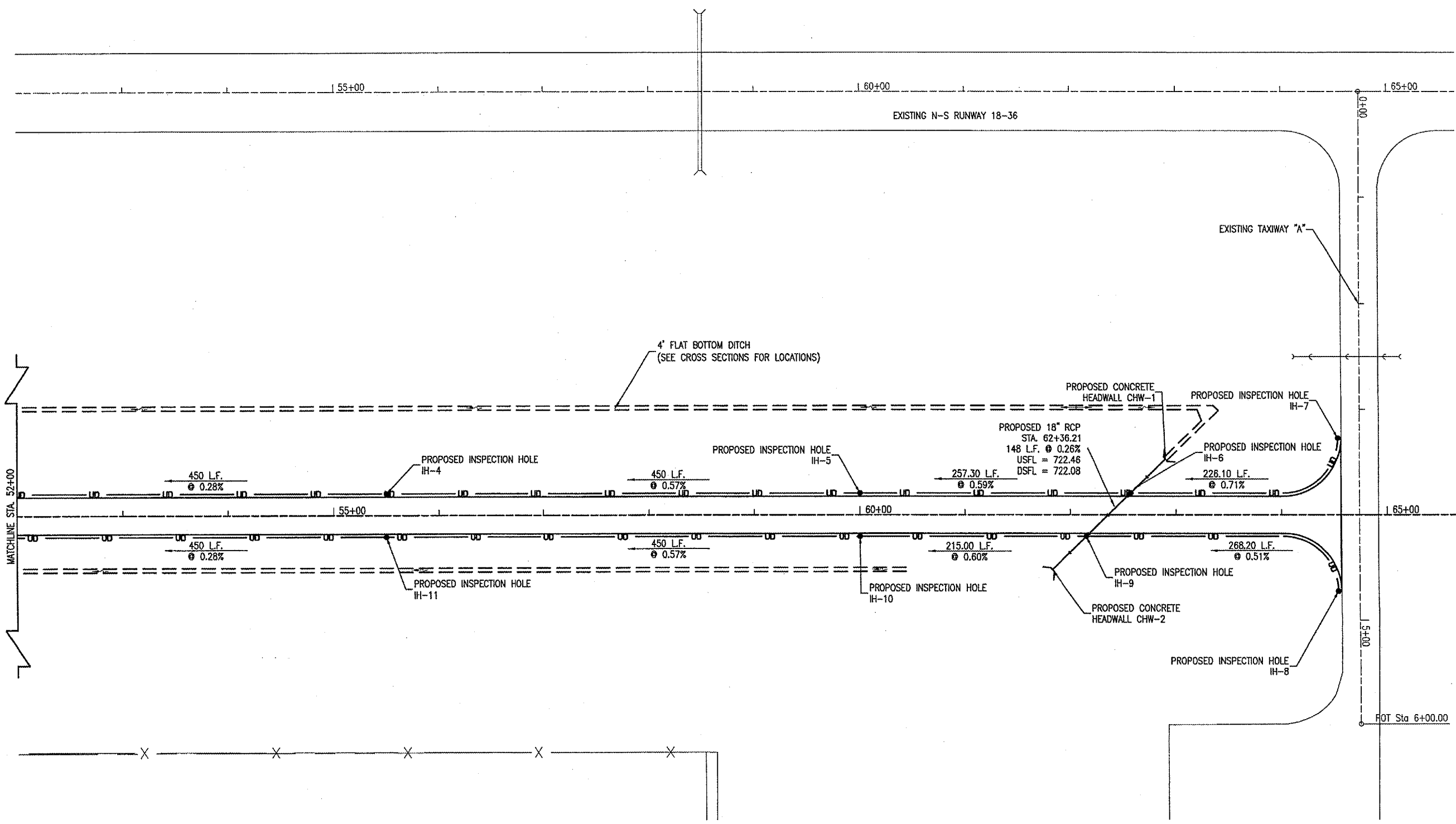
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PROPOSED
 DRAINAGE PLAN
 STA. 39+00 TO STA. 52+00

I:\Airports\MS Sterling\B18-05TAXY\Airport\Sheets\R-131-DRN.dgn 07/14/2005, 08:14 AM Bak

07/14/2005, 08:18 AM Bok

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- LEGEND**
- EXISTING IMPROVEMENTS
 - PROPOSED IMPROVEMENTS
 - UD — PROPOSED 6" P.E. TUBING (WRAPPED)
 - PROPOSED INSPECTION HOLE
 - ▲ PROPOSED RCP PIPE
 - ▲ PROPOSED PRECAST FLARED END SECTION
 - +— PROPOSED DITCH SUMMIT
 - +— DITCH FLOW

REVISION	DATE	BY

MT. STERLING MUNICIPAL AIRPORT
 MT. STERLING, ILLINOIS
 A.I.P. PROJ.: 3-17-0417-B6
 I.L. PROJ.: 163-3431

HEL Project No. 818-05TXY	FILED R-131DRN	DATE 03/14/05
Scale 1"=50'	Scale 1"=50'	DATE 03/21/05
DATE 04/28/05	LAYOUT JEO	DATE 05/17/05
REVIEWED CAH	DRAWN JEO	DATE 03/21/05

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 Chicago Nationwide

PARALLEL TAXIWAY
 TAXIWAY "B"
 PROPOSED
 DRAINAGE PLAN
 STA. 52+00 TO STA. 65+00

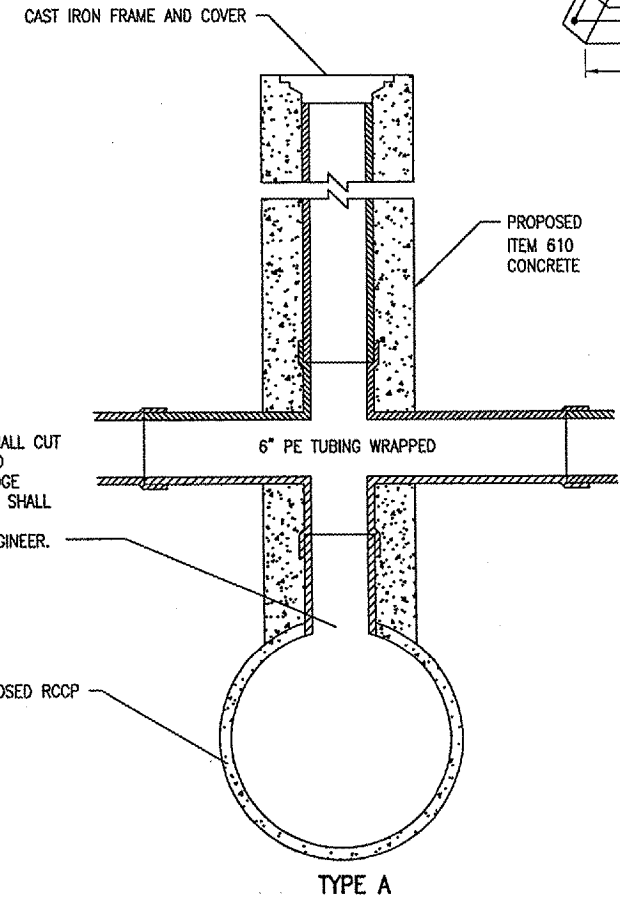
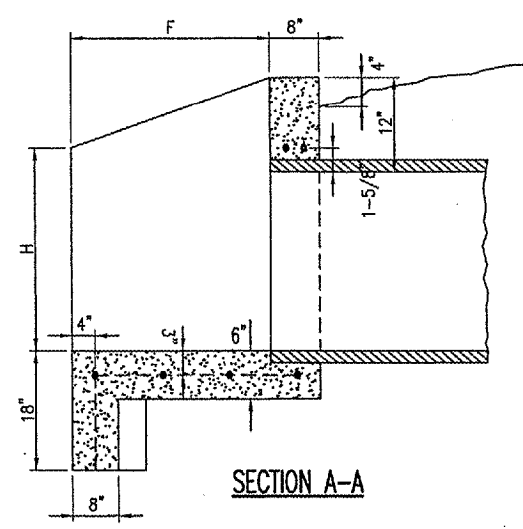
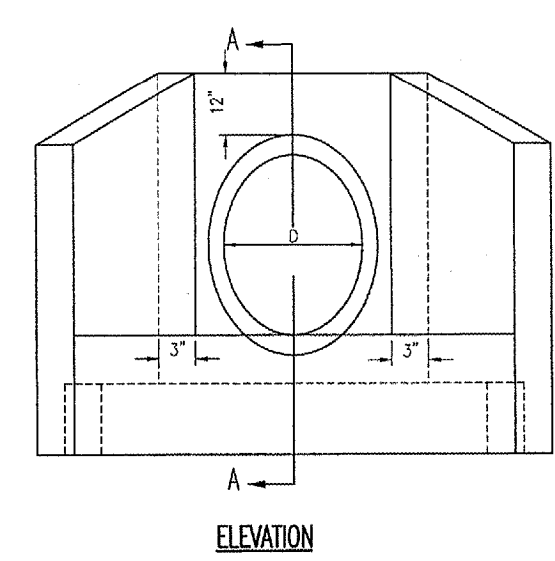
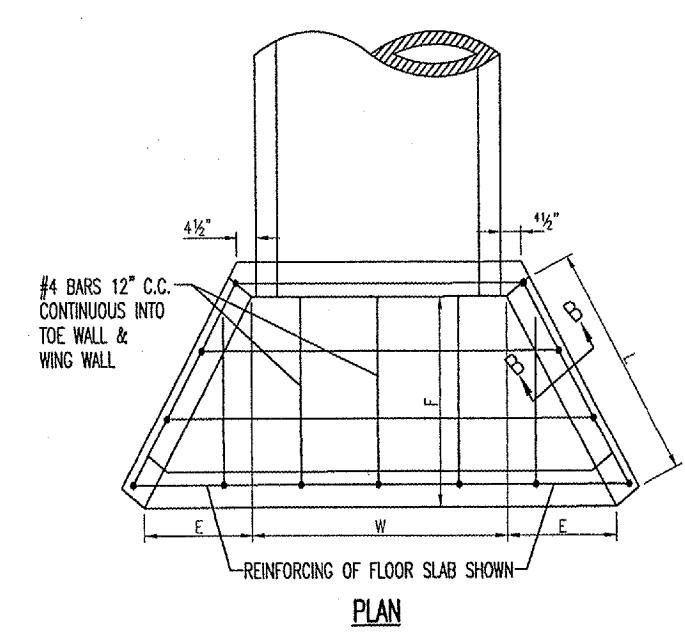
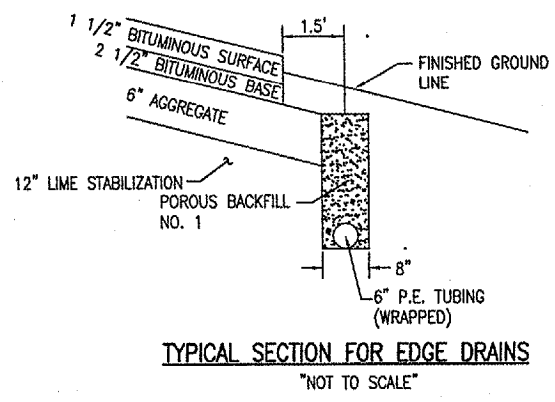
BY	
REVISION	
DATE	

MT. STERLING MUNICIPAL AIRPORT
 MT. STERLING, ILLINOIS
 A.I.P. PROJ.: 3-17-0417-B6
 I.L. PROJ.: 163-3431

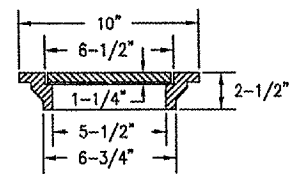
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LAYOUT	03/14/05
DRAWN	03/21/05
REVIEWED	05/17/05

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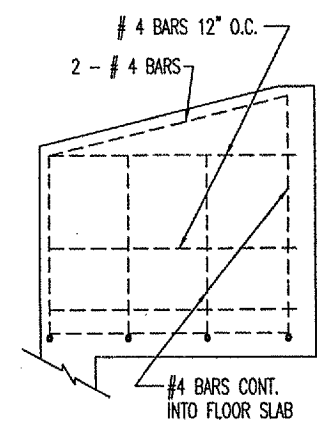
PROPOSED
 DRAINAGE
 DETAILS



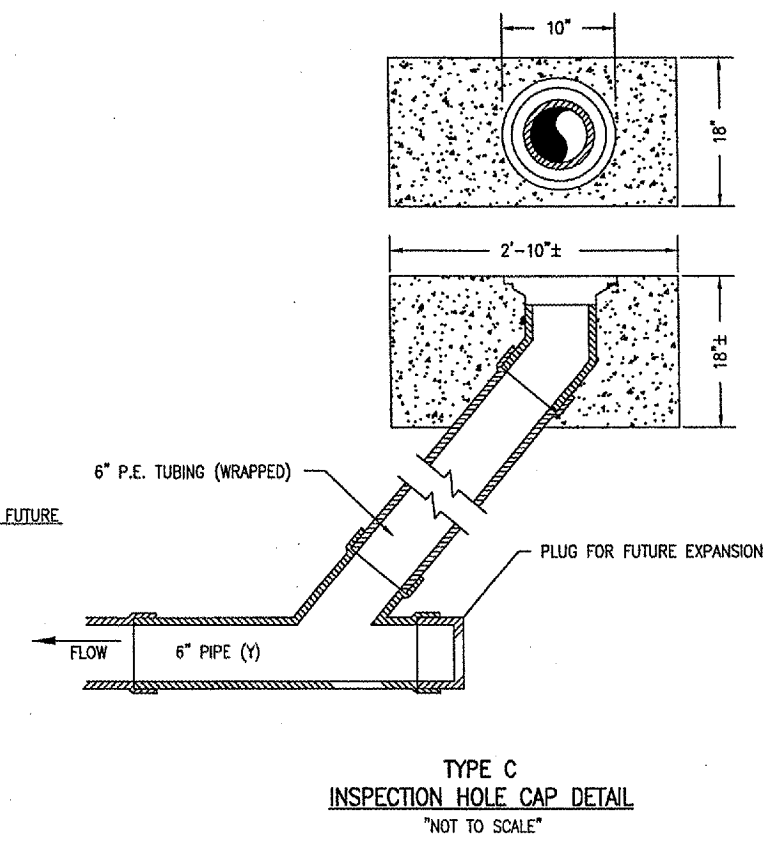
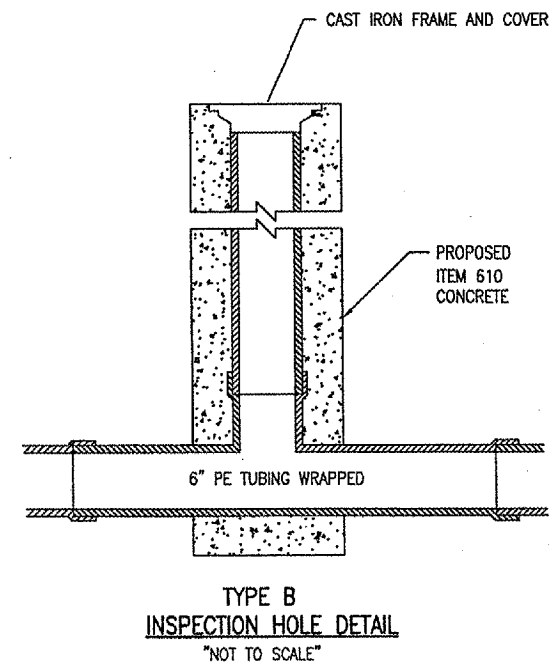
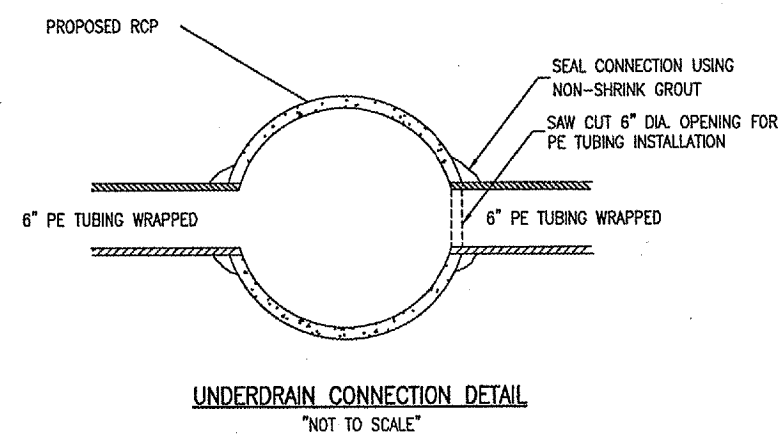
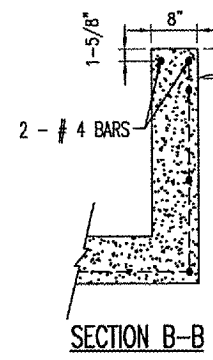
- INSPECTION HOLE NOTES**
1. DIAMETER OF PIPE AS SPECIFIED.
 2. TOP OF INSPECTION HOLES SHALL BE 1" ABOVE FINISH GROUND LINE AT LOCATION SHOWN ON PLANS.
 3. 1/2" CHAMFER TO BE USED ON ALL EXPOSED EDGES OF INSPECTION HOLES.
 4. THE CONCRETE SHALL BE STRUCTURAL PORTLAND CEMENT CONCRETE (NON-REINFORCED)



NEENAH R-6013, DEETER 1810,
 EAST JORDAN 2790-6 OR
 APPROVED EQUAL



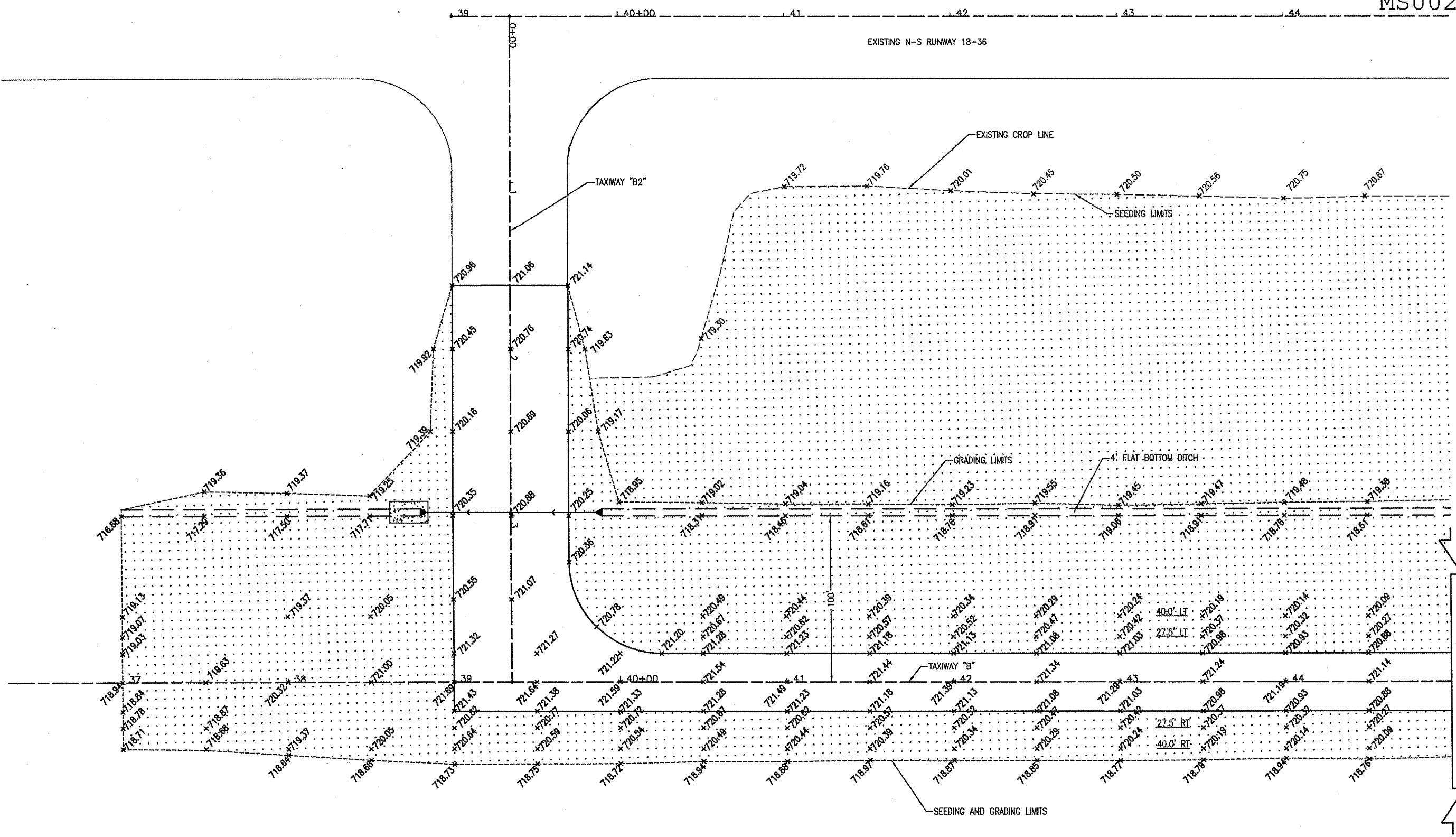
DIAM. OF PIPES	DIMENSIONS - 2:1 FILL SLOPE					
D	L	E	F	H	W	
12"	1' 7-1/4"	10-5/8"	1'-4"	1'-9"	1'-6"	
15"	2'-0"	1' 1-3/8"	1'-8"	1'-11"	1'-9"	
18"	2' 4-3/4"	1'-4"	2'-0"	2'-1"	2'-0"	
21"	3'-0"	1'-8"	2'-6"	2'-3"	2'-3"	
24"	3' 7-3/4"	2'-0"	3'-0"	2'-5"	2'-6"	
27"	4' 2-1/2"	2'-4"	3'-6"	2'-7"	2'-9"	
30"	4' 9-3/4"	2'-8"	4'-0"	2' 8-1/2"	3'-0"	
33"	5' 4-7/8"	3'-0"	4'-6"	2'-10"	3'-3"	
36"	6'-0"	3'-4"	5'-0"	3'-0"	3'-6"	



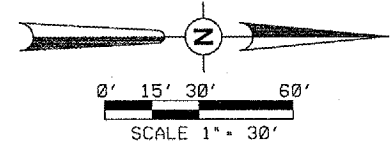
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EXISTING N-S RUNWAY 18-36

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- LEGEND**
- EXISTING IMPROVEMENTS
 - PROPOSED IMPROVEMENTS
 - PROPOSED RIPRAP
 - PROPOSED GRADING AND SEEDING LIMITS
 - PROPOSED GRADE
 - EXISTING GRADE



DATE	REVISION	BY

MT. STERLING MUNICIPAL AIRPORT

MT. STERLING, ILLINOIS

IL PROJ.: 163-3431 A.I.P. PROJ.: 3-17-0417-B6

JEL Project No. 818-051XY	
Filename: R-108-STAK.dgn	
Scale:	SCALE
Date:	07/14/2005, 08:33 AM
LAYOUT	JEO 03/14/05
DRAWN	JEO 03/21/05
REVIEWED	CAH 05/17/05



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PARALLEL TAXIWAY "B" TAXIWAY "B"

PROPOSED STAKING PLAN STA. 37+00 TO STA. 45+00

45+00 46 47 48 49 50+00 51 52 53

EXISTING N-S RUNWAY 18-36

EXISTING CROP LINE

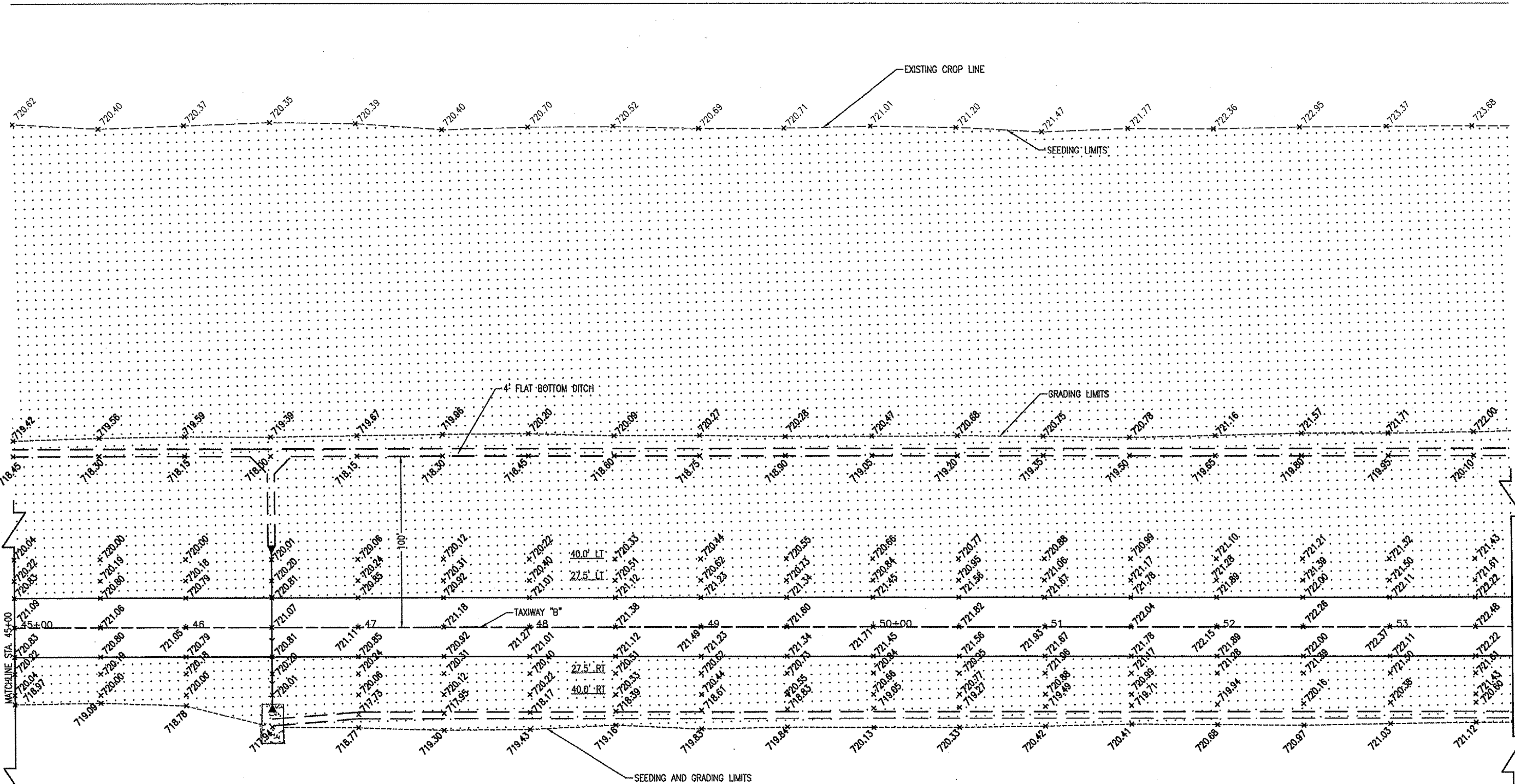
SEEDING LIMITS

4' FLAT-BOTTOM DITCH

GRADING LIMITS

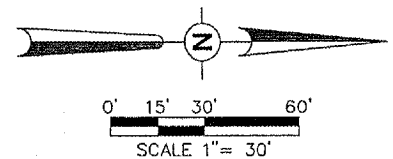
SEEDING AND GRADING LIMITS

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LEGEND

- EXISTING IMPROVEMENTS
- PROPOSED IMPROVEMENTS
- PROPOSED RIPRAP
- PROPOSED GRADING AND SEEDING LIMITS
- PROPOSED GRADE
- EXISTING GRADE



DATE	REVISION

MT. STERLING MUNICIPAL AIRPORT

MT. STERLING, ILLINOIS

A.I.P. PROJ.: 163-3431 I.L. PROJ.: 3-17-0417-B6

FILE PROJECT NO. 818-05TXX	DATE
FILE NAME R-108-STAK.dgn	07/14/2005 08:36 AM
SCALE	SCALE
LAYOUT	JEO 03/14/05
DRAWN	JEO 03/21/05
REVIEWED	CAH 05/17/05



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PARALLEL TAXIWAY TAXIWAY "B"

PROPOSED STAKING PLAN

STA. 45+00 TO STA. 53+70

EXISTING N-S RUNWAY 18-36

EXISTING CROP LINE

SEEDING LIMITS







GRADING LIMITS

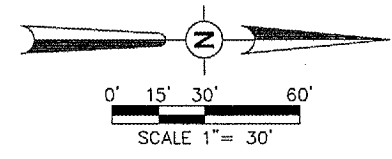
4' FLAT BOTTOM DITCH

TAXIWAY "B"

SEEDING AND GRADING LIMITS

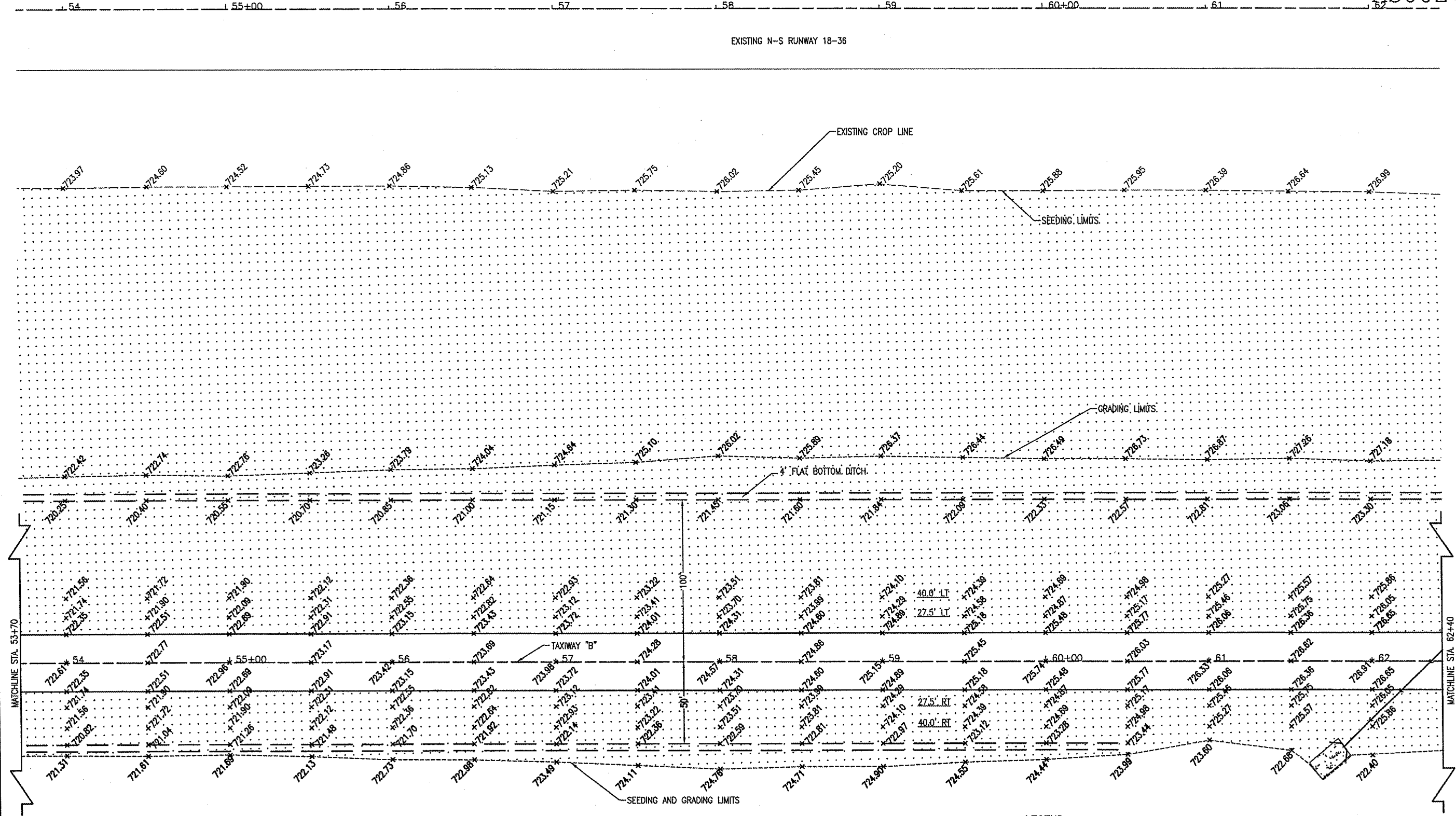
LEGEND

-  EXISTING IMPROVEMENTS
-  PROPOSED IMPROVEMENTS
-  PROPOSED RIPRAP
-  PROPOSED GRADING AND SEEDING LIMITS
-  PROPOSED GRADE
-  EXISTING GRADE



07/14/2005 08:49 AM Bak

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DATE	REVISION	BY

MT. STERLING MUNICIPAL AIRPORT

MT. STERLING, ILLINOIS

A.I.P. PROJ.: 163-3431 I.L. PROJ.: 3-17-0417-B6

JEL Project No. 818-05TX	
Filename R-108-STAK.dgn	
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Date	07/14/2005 08:49 AM
LAYOUT	JEO 03/14/05
DRAWN	JEO 03/21/05
REVIEWED	CHH 05/17/05



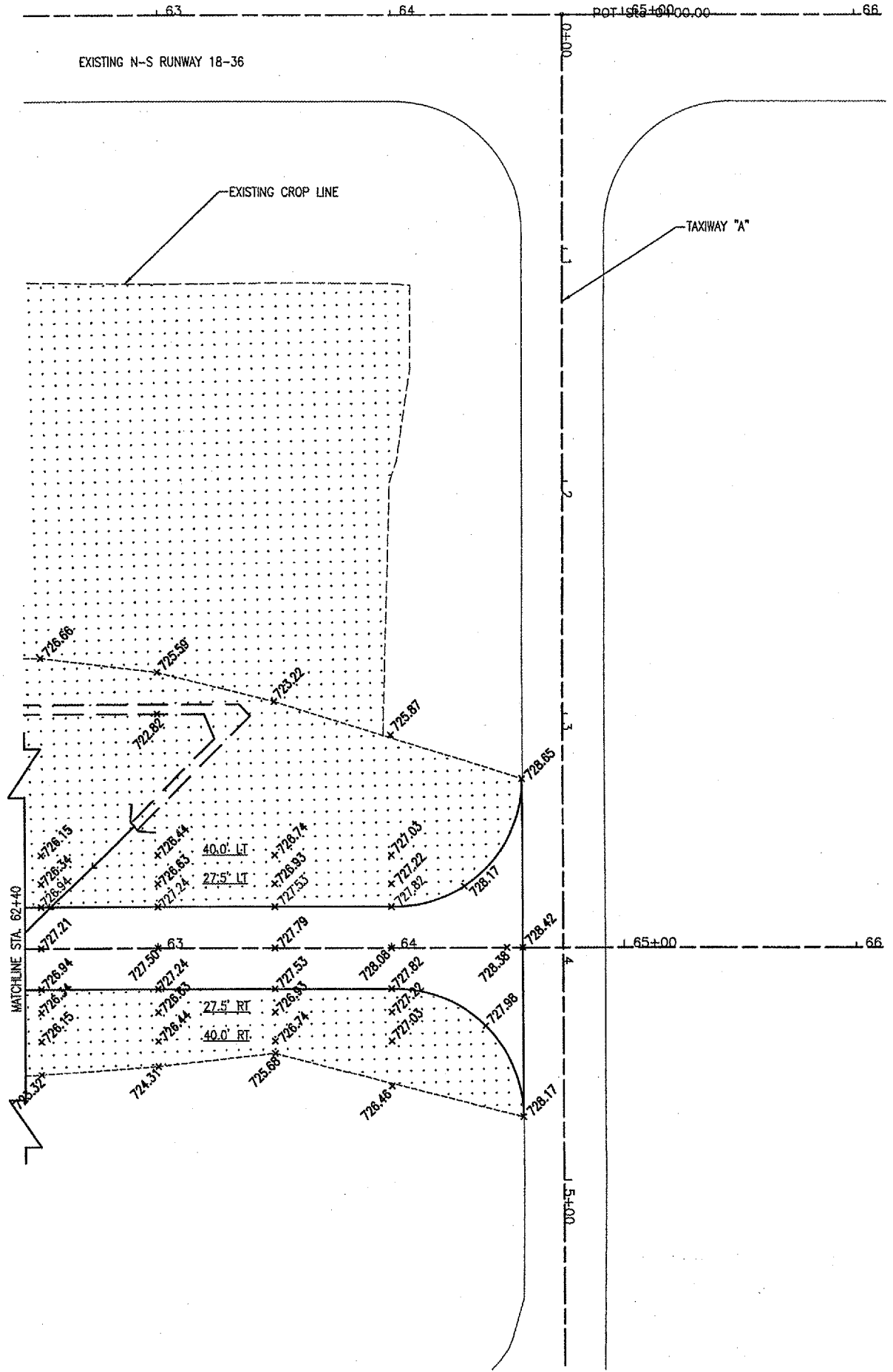
Hanson Professional Services Inc.
 1525 South Sixth Street
 Springfield, Illinois 62705-2956
 Offices Nationwide

PARALLEL TAXIWAY TAXIWAY "B"

PROPOSED STAKING PLAN

STA. 53+70 TO STA. 62+40

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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 (17.5 ACRES) WILL BE SEED IN ACCORDANCE WITH THE ABOVE NOTED SPECIFICATION. ALL AREAS DISTURBED OUTSIDE THE DESIGNATED GRADING AND SEEDING LIMITS BY THE CONTRACTOR, WILL ALSO BE SEED BUT AT THE CONTRACTOR'S OWN EXPENSE.

ALL MATERIALS AND/OR DEBRIS RESULTING FROM THE SEEDING OPERATIONS WILL BE REMOVED FROM THE PAVEMENTS AND MISCELLANEOUS STRUCTURES PRIOR TO OPENING THE RUNWAY.

901-3.4 MAINTENANCE OF SEEDED 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 _____ 17.5 ACRES

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 SEEDED AREA. DISTURBED AREAS OUTSIDE THE GRADING LIMITS SHALL ALSO BE MULCHED AND PARTICIPATION WILL BE THE SAME AS FOR SEEDED AREAS.

908-2.1 MULCH MATERIAL: THE CONTRACTOR MAY EITHER FURNISH STRAW (AT A RATE OF 2 TONS PER ACRE) OR HYDROMULCH (AT A RATE OR 2,500 LB OF MULCH MIXED WITH 2,500 LB OF WATER PER ACRE) AS THE TYPE OF MULCH MATERIAL TO BE USED ON THIS PROJECT.

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 _____ 17.5 ACRES

EARTHWORK DISTRIBUTION

CUT TAXIWAY "B" = 10,277 C.Y.	FILL TAXIWAY "B" = 8,223 C.Y.
CUT TAXIWAY "B2" = 49 C.Y.	FILL TAXIWAY "B2" = 294 C.Y.
TOTAL CUT = 10,326 C.Y.	TOTAL FILL = 8,517 C.Y.
SHRINKAGE FACTOR = 1.25	
TOTAL FILL REQUIRED = 10,647 C.Y.	
EXCESS CUT = (321) C.Y.	

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. 4 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 _____ 105 S.Y.

152410-UNCLASSIFIED EXCAVATION NOTES:

THE PROPOSED UNCLASSIFIED EXCAVATION SHALL BE PLACED IN ACCORDANCE WITH ITEM 152 "EXCAVATION AND EMBANKMENT" AS STATED ON PAGE 25 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004. FOR EVERY 1' FOOT IN EMBANKMENT FORMATION, THE EMBANKMENT WILL BE COMPACTED 1' FOOT BEYOND PAVEMENT EDGE AT 95% OF EARTH PROCTOR.

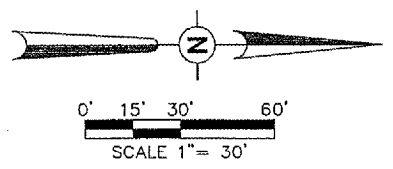
THE EXCAVATED AREAS WILL BE COMPACTED IN ACCORDANCE WITH PROCEDURES FOR AIRCRAFT WEIGHING LESS THAN 60,000 POUNDS.

ALL EARTHWORK WILL BE CLASSIFIED AS "UNCLASSIFIED EXCAVATION".

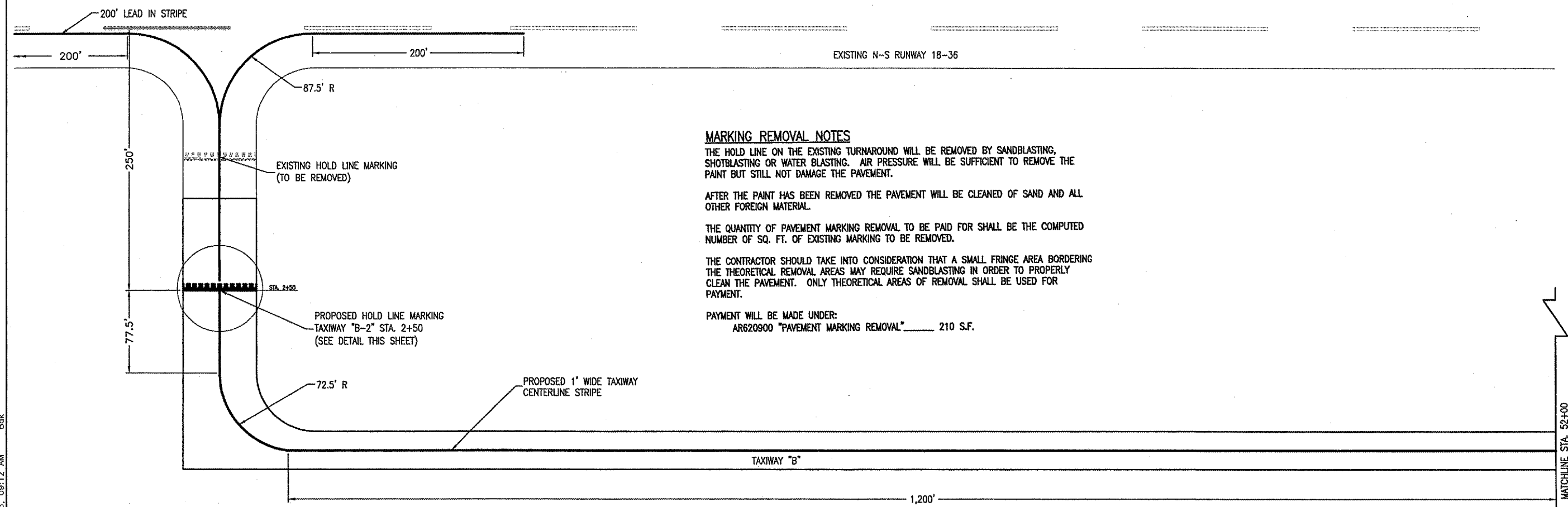
THE PROPOSED UNCLASSIFIED EXCAVATION WILL BE PAID FOR UNDER ITEM:
AR152410 UNCLASSIFIED EXCAVATION _____ 10,326 C.Y.

LEGEND

- EXISTING IMPROVEMENTS
- PROPOSED IMPROVEMENTS
- PROPOSED RIPRAP
- PROPOSED GRADING AND SEEDING LIMITS
- PROPOSED GRADE
- EXISTING GRADE



BY									
REVISION									
DATE									
<p>MT. STERLING MUNICIPAL AIRPORT</p> <p>MT. STERLING, ILLINOIS</p> <p style="font-size: small;">A.I.P. PROJ.: 3-17-0417-B6</p>									
H.E.I. Project No. 818-05TX Filename: R-108-STAK.dgn Scale: _____ Date: 07/14/2005, 09:01 AM	LAYOUT: JEO 03/14/05 DRAWN: JEO 03/21/05 REVIEWED: CAH 05/17/05	<p style="font-size: x-small;">Hanson Professional Services Inc. 1525 South Sixth Street Springfield, Illinois 62703-2886 Offices Nationwide</p>							
<p>PARALLEL TAXIWAY "B"</p> <p>PROPOSED STAKING PLAN</p> <p>STA. 62+40 TO STA. 65+00</p>									
<p style="font-size: 2em; font-weight: bold;">20</p> <p style="font-size: x-small;">20 of 57 sheets</p>									



MARKING REMOVAL NOTES

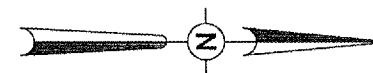
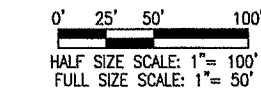
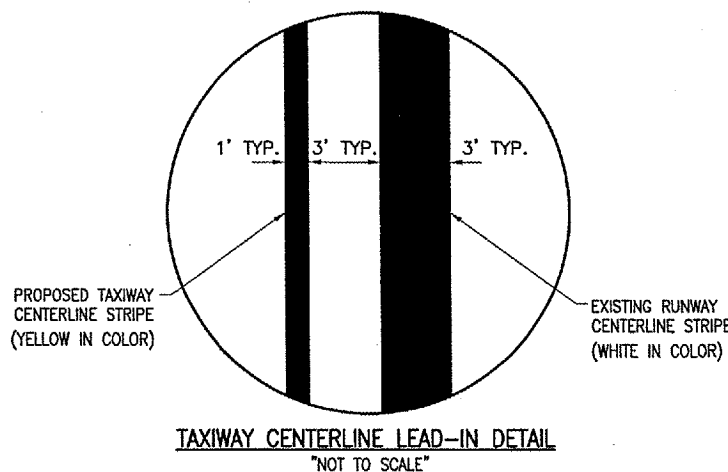
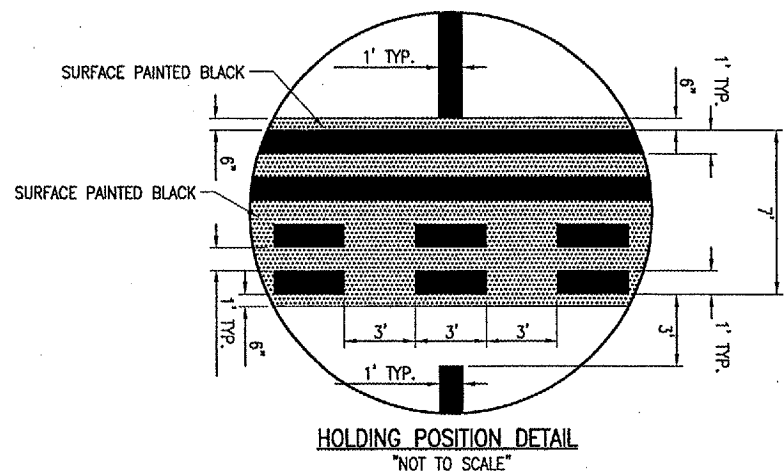
THE HOLD LINE ON THE EXISTING TURNAROUND WILL BE REMOVED BY SANDBLASTING, SHOTBLASTING OR WATER BLASTING. AIR PRESSURE WILL BE SUFFICIENT TO REMOVE THE PAINT BUT STILL NOT DAMAGE THE PAVEMENT.

AFTER THE PAINT HAS BEEN REMOVED THE PAVEMENT WILL BE CLEANED OF SAND AND ALL OTHER FOREIGN MATERIAL.

THE QUANTITY OF PAVEMENT MARKING REMOVAL TO BE PAID FOR SHALL BE THE COMPUTED NUMBER OF SQ. FT. OF EXISTING MARKING TO BE REMOVED.

THE CONTRACTOR SHOULD TAKE INTO CONSIDERATION THAT A SMALL FRINGE AREA BORDERING THE THEORETICAL REMOVAL AREAS MAY REQUIRE SANDBLASTING IN ORDER TO PROPERLY CLEAN THE PAVEMENT. ONLY THEORETICAL AREAS OF REMOVAL SHALL BE USED FOR PAYMENT.

PAYMENT WILL BE MADE UNDER:
AR620900 "PAVEMENT MARKING REMOVAL" _____ 210 S.F.



LEGEND

- PROPOSED IMPROVEMENTS
- EXISTING MARKING
- PROPOSED MARKING

07/14/2005 09:12 AM Bak

I:\Airports\MtSterling\B18-05TX\Airport\Sheets\R-151-MRK.dgn

REVISION	DATE

MT. STERLING MUNICIPAL AIRPORT
MT. STERLING, ILLINOIS
A.I.P. PROJ.: 3-17-0417-B6
ILL. PROJ.: 163-3431

HEL Project No. B18-05TX	FILED PROJECT NO. R-151MRK	DATE	DATE
Scale: 1" = 50'	Scale: 1" = 50'	05/02/05	05/17/05
LAYOUT	JEB	03/14/05	03/21/05
DRAWN	JMB	03/21/05	03/21/05
REVIEWED	CAH	05/17/05	05/17/05

HANSON
Hanson Professional Services Inc.
1525 South Sixth Street
Springfield, Illinois 62703-2886
Offices Nationwide

PARALLEL TAXIWAY "B"
TAXIWAY "B"
PROPOSED MARKING PLAN
STA. 39+00 TO STA. 52+00

EXISTING N-S RUNWAY 18-36

MATCHLINE STA. 52+00

TAXIWAY "B"

1,201.6'

PROPOSED 1' WIDE TAXIWAY CENTERLINE STRIPE

RESTRIPE EXISTING HOLD LINE MARKING TAXIWAY "A" (SEE DETAIL PREVIOUS SHEET)

RESTRIPE EXISTING CENTERLINE

72.5' R

72.5' R

620-PAVEMENT MARKING-WATERBORNE NOTES

THE PAVEMENT MARKING-WATERBORNE (620) SHALL BE PLACED IN ACCORDANCE WITH ITEM 620 "PAVEMENT MARKING" AS STATED ON PAGE 77 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THIS ITEM SHALL CONSIST OF CENTERLINE, HOLD LINE, AND LEAD-IN MARKING. ALL TAXIWAY MARKING WILL BE YELLOW IN COLOR WITH A 6" BLACK OUTLINE. THE PROPOSED PAVEMENT MARKING WILL BE APPLIED IN TWO APPLICATIONS.

ANY MATERIAL DELIVERED THAT FAILS TO MEET THE SPECIFICATIONS SHALL BE DISPOSED OF BY THE VENDOR AND IMMEDIATELY REPLACED WITH ACCEPTABLE MATERIAL ENTIRELY AT THE VENDOR'S EXPENSE, INCLUDING HANDLING AND TRANSPORTATION CHARGES.

ALL PROPOSED MARKING WILL BE COMPLETED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION PLANS.

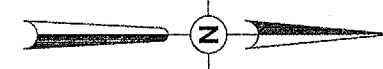
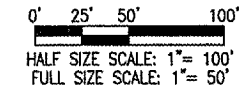
GLASS BEADS SHALL BE REQUIRED ONLY ON THE SECOND APPLICATION OF YELLOW MARKING.

CUT-OFF SHEETS WILL BE REQUIRED TO INSURE STRAIGHT EDGES.

THE PROPOSED MARKING WILL BE PAID FOR UNDER ITEM: AR620520 PAVEMENT MARKING-WATERBORNE 4,757 S.F.

MARKING QUANTITIES

DESCRIPTION	UNIT AREA	NO. REQUIRED	TOTAL AREA
HOLDING LINE	210	1	210
HOLDING LINE	105	1	105
TAXIWAY CENTERLINE	3,917	1	3,917
TOTAL YELLOW			4,232
HOLDING LINE	350	1	350
HOLDING LINE	175	1	175
TOTAL BLACK			525
TOTAL MARKING			4,757



LEGEND

- PROPOSED IMPROVEMENTS
- EXISTING MARKING
- PROPOSED MARKING

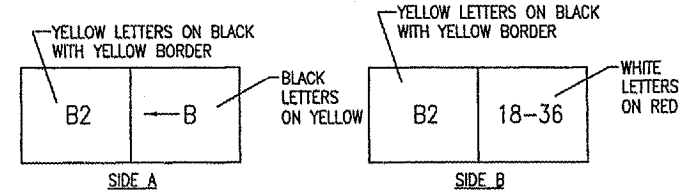
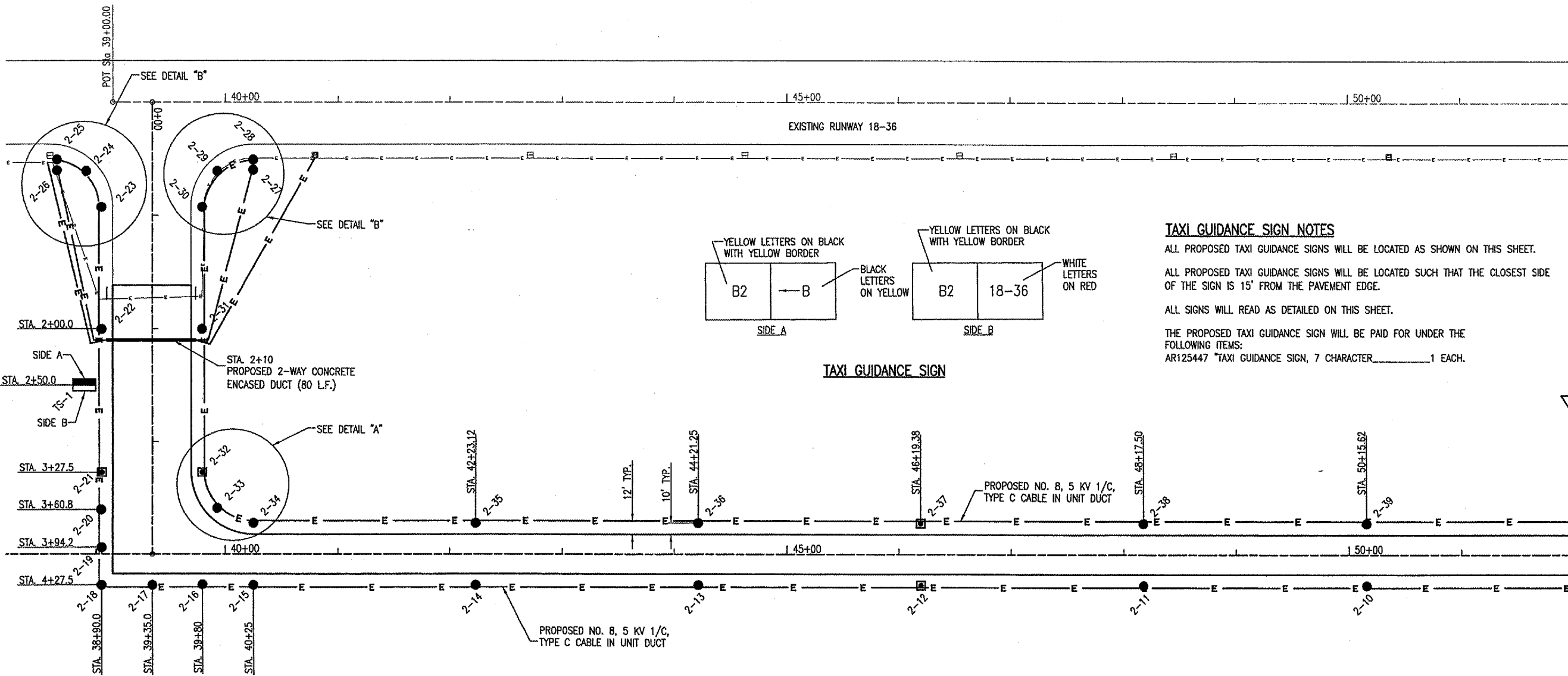
REVISION	DATE	BY

MT. STERLING MUNICIPAL AIRPORT
 MT. STERLING, ILLINOIS
 I.L. PROJ.: 163-3431 A.I.P. PROJ.: 3-17-0417-B6

H.E.L. Project No. 818-05TX	
Drawn: R-151MRK	Scale: 1"=50'
Date: 05/02/05	
LAYOUT	JEO 03/14/05
DRAWN	JMB 03/21/05
REVIEWED	CAH 05/17/05

HANSON
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 Springfield, Illinois 62703-2886
 Offices Nationwide

PARALLEL TAXIWAY TAXIWAY "B"
 PROPOSED MARKING PLAN
 STA. 52+00 TO STA. 65+00



TAXI GUIDANCE SIGN

TAXI GUIDANCE SIGN NOTES

ALL PROPOSED TAXI GUIDANCE SIGNS WILL BE LOCATED AS SHOWN ON THIS SHEET.

ALL PROPOSED TAXI GUIDANCE SIGNS WILL BE LOCATED SUCH THAT THE CLOSEST SIDE OF THE SIGN IS 15' FROM THE PAVEMENT EDGE.

ALL SIGNS WILL READ AS DETAILED ON THIS SHEET.

THE PROPOSED TAXI GUIDANCE SIGN WILL BE PAID FOR UNDER THE FOLLOWING ITEMS:
AR125447 TAXI GUIDANCE SIGN, 7 CHARACTER _____ 1 EACH.

LEGEND

- E — EXISTING NO. 8, 5 KV. 1/C., TYPE C CABLE IN UNIT DUCT
- E — PROPOSED NO. 8, 5 KV. 1/C., TYPE C CABLE IN UNIT DUCT
- ▬▬▬▬▬ PROPOSED 2-WAY CONCRETE ENCASED DUCT
- EXISTING STAKE MOUNTED TAXIWAY LIGHT
- EXISTING BASE MOUNTED TAXIWAY LIGHT
- PROPOSED STAKE MOUNTED TAXIWAY LIGHT
- PROPOSED BASE MOUNTED TAXIWAY LIGHT
- PROPOSED TAXIWAY GUIDANCE SIGN

GENERAL NOTES

DURING CONSTRUCTION, THE EXISTING RUNWAY AND TAXIWAY LIGHTING CIRCUITS MAY BE INOPERABLE DURING THE DAY. HOWEVER, THE CIRCUITS WILL BE FUNCTIONING AT THE END OF EVERY CONSTRUCTION DAY. THE CONTRACTOR WILL DO WHATEVER IS NECESSARY TO HAVE THE CIRCUITS ACTIVE AT THE END OF THE CONSTRUCTION DAY. THIS WORK WILL BE CONSIDERED AS PART OF LIGHTING INSTALLATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

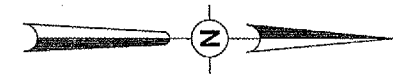
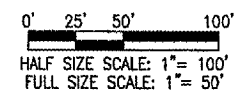
110-DUCT NOTES:

THE PROPOSED CONCRETE ENCASED ELECTRICAL DUCT WILL BE CONSTRUCTED IN ACCORDANCE WITH ITEM 110 "INSTALLATION OF AIRPORT UNDERGROUND ELECTRICAL DUCT" AS STATED ON PAGE 148 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING 2-WAY CONCRETE ENCASED ELECTRICAL DUCTS AT THE LOCATIONS SHOWN ON THE CONSTRUCTION PLANS.

THE DUCTS WILL BE PLACED PRIOR TO LIME STABILIZATION. THE TOP OF CONCRETE SHALL BE A MINIMUM OF 15" BELOW EARTH SUBGRADE AND BELOW THE FLOWLINE OF THE PROPOSED UNDERDRAINS.

THE PROPOSED ELECTRICAL DUCT WILL BE PAID FOR UNDER ITEMS:
AR110502 2-WAY CONCRETE ENCASED DUCT _____ 117 L.F.



LIGHTING NOTES

THE PROPOSED TAXIWAY LIGHTS WILL BE INSTALLED IN ACCORDANCE WITH ITEM 125 "INSTALLATION OF AIRPORT LIGHTING SYSTEMS" AS STATED ON PAGE 151 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

ALL PROPOSED TAXIWAY LIGHTS WILL BE PLACED 10' FROM THE PAVEMENT EDGE UNLESS SHOWN OTHERWISE.

ALL PROPOSED TAXIWAY LIGHTS WILL BE CONSTRUCTED AT THE LOCATIONS SHOWN IN THESE PLANS AND IN ACCORDANCE WITH THE DETAILS ON THIS SHEET AND THE SPECIFICATIONS.

ALL PROPOSED TAXIWAY LIGHTING CABLES WILL BE PLACED 12' FROM THE PAVEMENT EDGE UNLESS SHOWN OTHERWISE. ALL CABLES WILL BE PLACED A MINIMUM OF 18" BELOW FINISH GRADE.

THE PROPOSED TAXIWAY LIGHTING CABLE WILL BE NO. 8, 5000 V., 1/C, TYPE C UNDERGROUND CABLE IN UNIT DUCT.

IN AREAS WHERE THERE IS A CONGESTION OF CABLES OR WHERE THE PROPOSED CABLE CROSSES AN EXISTING CABLE, THE PROPOSED CABLE WILL BE HAND-TRENCHED INTO PLACE. ALL OTHER LOCATIONS THE PROPOSED CABLE MAY BE EITHER TRENCHED OR PLOWED INTO PLACE. TRENCHING AND/OR PLOWING WILL BE CONSIDERED INCIDENTAL TO THE PROPOSED CABLES AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

THE PROPOSED LIGHTS WILL BE FITTED WITH SOLID BLUE LENSES.

ALL PROPOSED TAXIWAY LIGHTS WILL BE TAGGED IN ACCORDANCE WITH THE LIGHT NUMBERS SHOWN ON THE PLANS.

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. CONTACT AIRPORT PERSONNEL FOR ASSISTANCE IN LOCATING AIRPORT CABLES. CONTACT FAA FOR ASSISTANCE IN LOCATING FAA CABLES

REVISION	DATE

MT. STERLING MUNICIPAL AIRPORT
MT. STERLING, ILLINOIS

J.E.I. Project: No. 818-05TX	Scale: 1" = 100'	Date: 07/14/2005, 11:03 AM
Filename: R-110-ELEC.dgn	Scale: 1" = 100'	Date: 07/14/2005, 11:03 AM
LAYOUT	JFC	03/14/05
DRAWN	JFC	03/21/05
REVIEWED	CAH	05/17/05



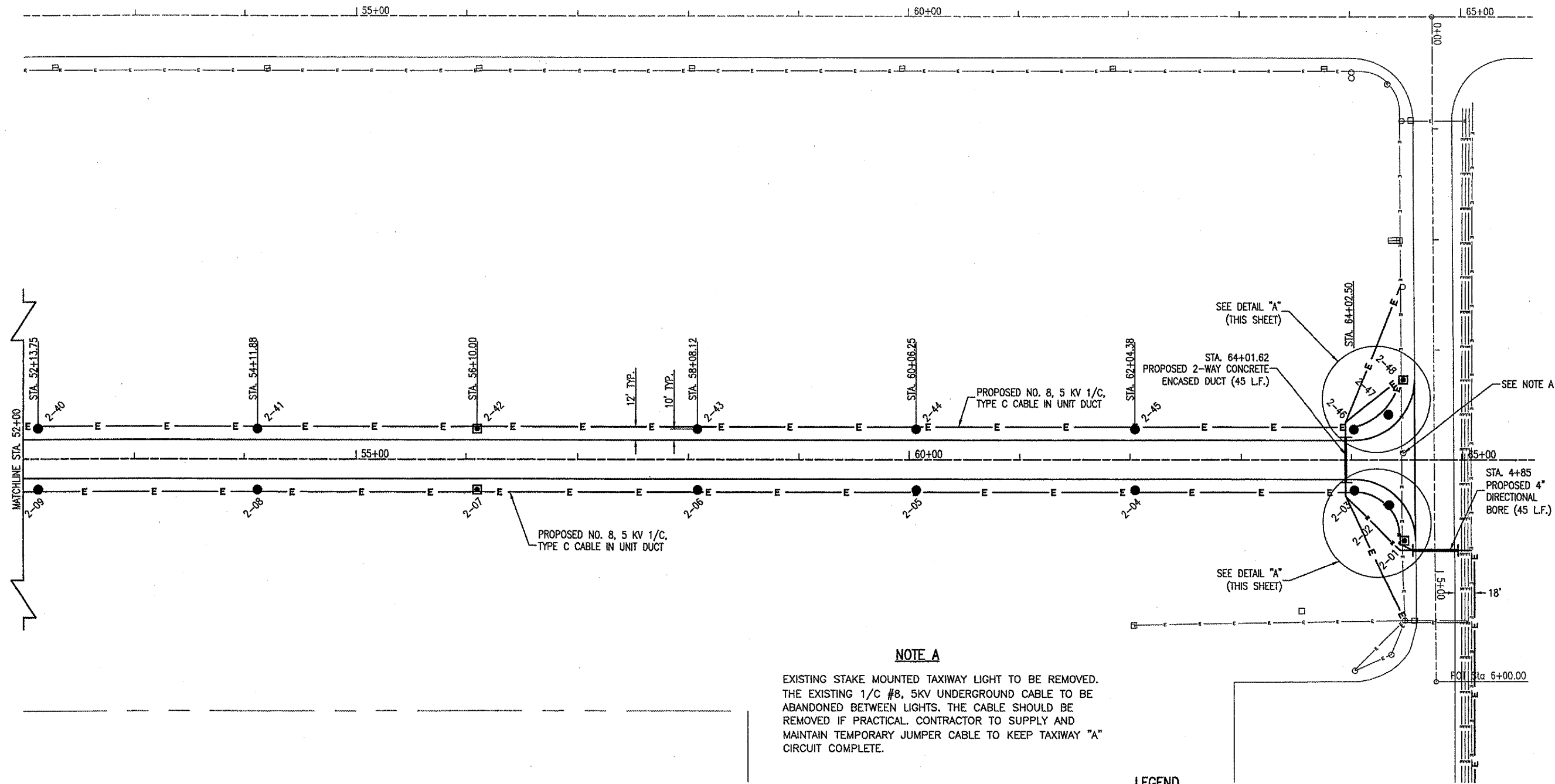
PARALLEL TAXIWAY TAXIWAY "B"
PROPOSED ELECTRICAL PLAN
STA. 39+00 TO STA. 52+00

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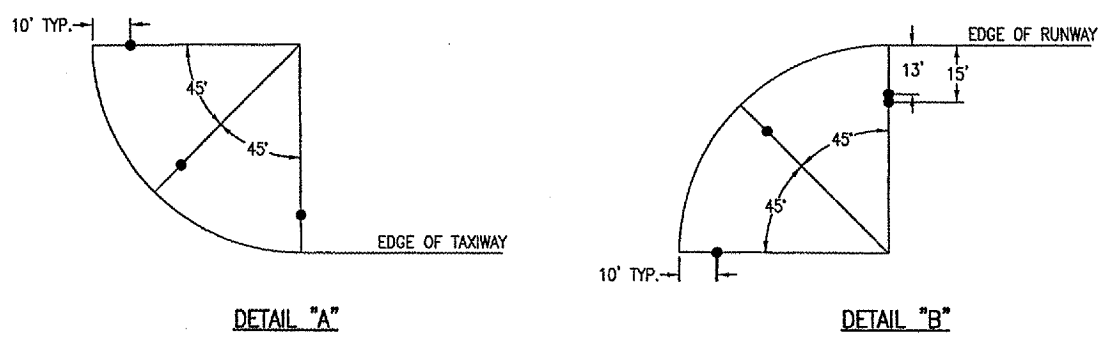
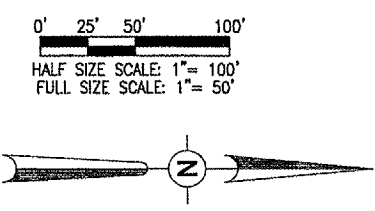
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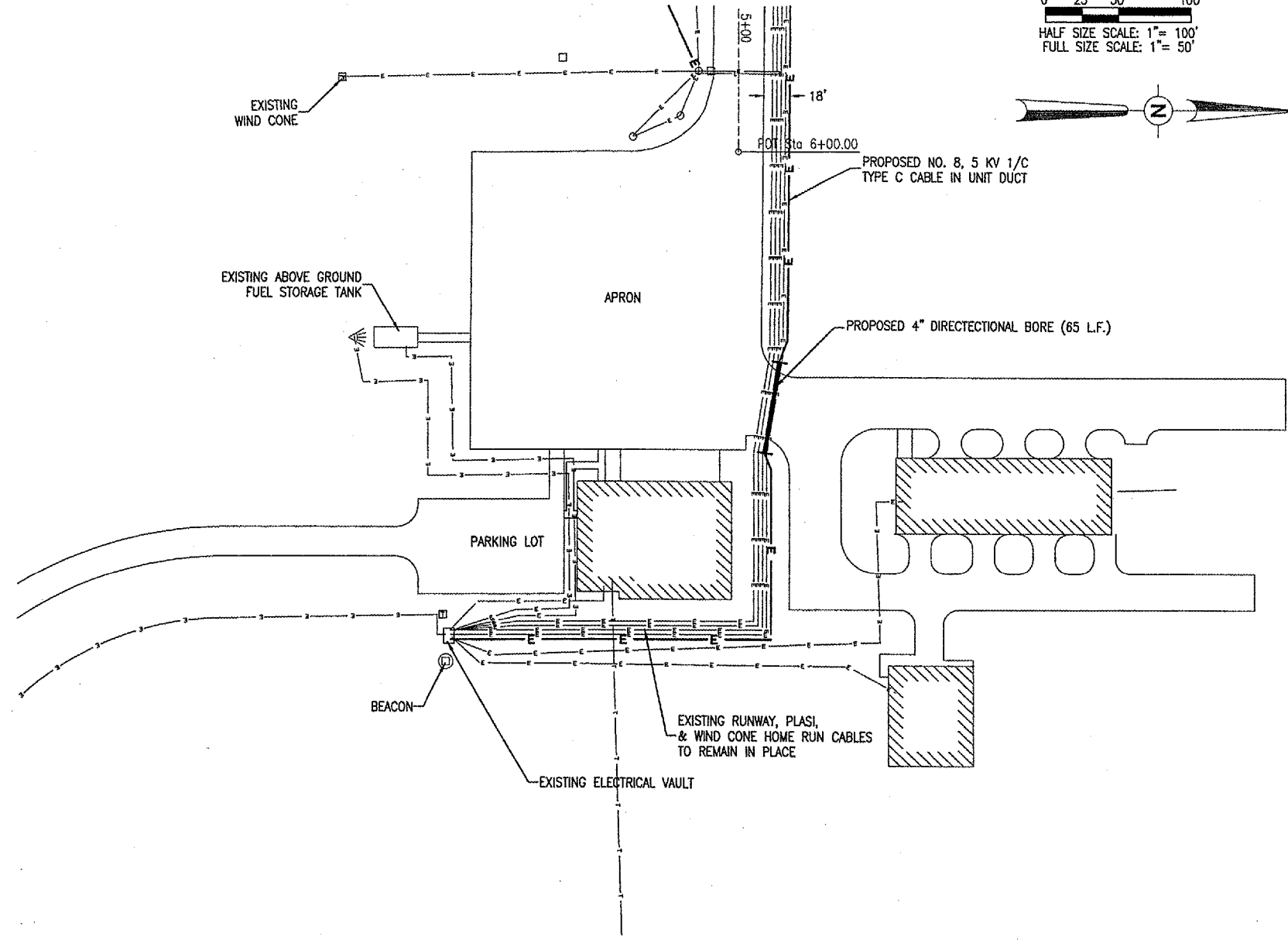
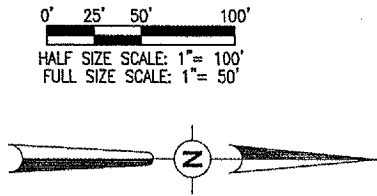


NOTE A
 EXISTING STAKE MOUNTED TAXIWAY LIGHT TO BE REMOVED. THE EXISTING 1/C #8, 5KV UNDERGROUND CABLE TO BE ABANDONED BETWEEN LIGHTS. THE CABLE SHOULD BE REMOVED IF PRACTICAL. CONTRACTOR TO SUPPLY AND MAINTAIN TEMPORARY JUMPER CABLE TO KEEP TAXIWAY "A" CIRCUIT COMPLETE.

- LEGEND**
- E — EXISTING NO. 8, 5 KV. 1/C., TYPE C CABLE IN UNIT DUCT
 - E — PROPOSED NO. 8, 5 KV. 1/C., TYPE C CABLE IN UNIT DUCT
 - ▬▬▬▬▬▬ PROPOSED 2-WAY CONCRETE ENCASED DUCT
 - EXISTING STAKE MOUNTED TAXIWAY LIGHT
 - EXISTING BASE MOUNTED TAXIWAY LIGHT
 - PROPOSED STAKE MOUNTED TAXIWAY LIGHT
 - ▣ PROPOSED BASE MOUNTED TAXIWAY LIGHT
 - ▤ EXISTING TAXIWAY GUIDANCE SIGN



BY	
REVISION	
DATE	
MT. STERLING MUNICIPAL AIRPORT MT. STERLING, ILLINOIS	
A.I.P. PROJ.: 3-17-0417-B6 I.L. PROJ.: 163-3431	
IEL Project No. 818-05TX Filename: R-110-ELEC.dgn Scale: 07/14/2005, 11:04 AM	LAYOUT JEO 03/14/05 DRAWN JEO 03/21/05 REVIEWED CAH 05/17/05
Hanson Professional Services Inc. 1625 South Sixth Street Springfield, Illinois 62703-2886 Offices Nationwide	
PARALLEL TAXIWAY TAXIWAY "B"	PROPOSED ELECTRICAL PLAN STA. 52+00 TO STA. 65+00
24 24 of 57 sheets	



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. CONTACT AIRPORT PERSONNEL FOR ASSISTANCE IN LOCATING AIRPORT CABLES. CONTACT FAA FOR ASSISTANCE IN LOCATING FAA CABLES

LEGEND

- E — EXISTING UNDERGROUND ELECTRICAL CABLE
- E — PROPOSED NO. 8, 5 KV, 1/C, TYPE C CABLE IN UNIT DUCT
- T — EXISTING TELEPHONE CABLE
- ▬▬▬▬▬▬ PROPOSED 4" DIRECTIONAL BORE
- EXISTING STAKE MOUNTED TAXIWAY LIGHT
- EXISTING BASE MOUNTED TAXIWAY LIGHT
- ▲ EXISTING APRON FLOOD LIGHT
- ⊞ EXISTING UTILITY TRANSFORMER
- ⊙ EXISTING AIRPORT ROTATING BEACON
- ▣ EXISTING BUILDINGS

ELECTRICAL QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
AR108158	1/C #8 5 KV UG CABLE IN UD	L.F.	8,819
AR109200	INSTALL ELECTRICAL EQUIPMENT	L.S.	1
AR110014	4" DIRECTIONAL BORE	L.F.	110
AR110502	2-WAY CONCRETE ENCASED DUCT	L.F.	125
AR125410	MITL -- STAKE MOUNTED	EACH	40
AR125415	MITL -- BASE MOUNTED	EACH	8
AR125447	TAXIWAY GUIDANCE SIGN, 7 CHARACTER	EACH	1

REVISION	DATE

MT. STERLING MUNICIPAL AIRPORT
 MT. STERLING, ILLINOIS
 I.L. PROJ.: 163-3431 A.I.P. PROJ.: 3-17-0417-B6

IHEL Project No. 818-05TX	
Electronic R-110-ELEC.dgn	
SCALE	DATE
07/14/2005	11:22 AM
LAYOUT	JEO 03/14/05
DRAWN	JEO 03/21/05
REVIEWED	CAH 05/17/05

HANSON
 Professional Services Inc.
 1525 South Sixth Street
 Springfield, Illinois 62703-2686
 Offices Nationwide

PARALLEL TAXIWAY
 TAXIWAY "B"
 PROPOSED
 ELECTRICAL
 HOME RUN PLAN

07/14/2005, 11:22 AM Bok

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REVISION	DATE

BY
DATE
PROJECT: 3-17-0417-B6
A.I.P. PROJ.: 163-3431
IL PROJ.: 163-3431

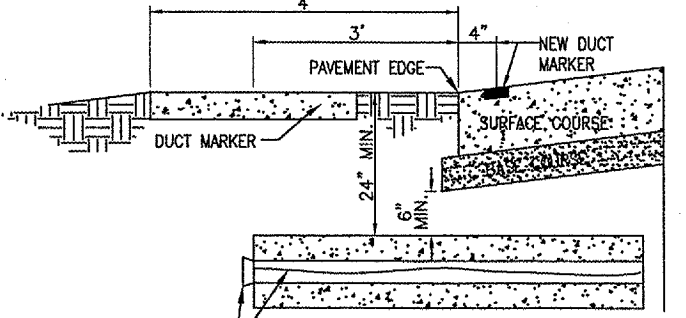
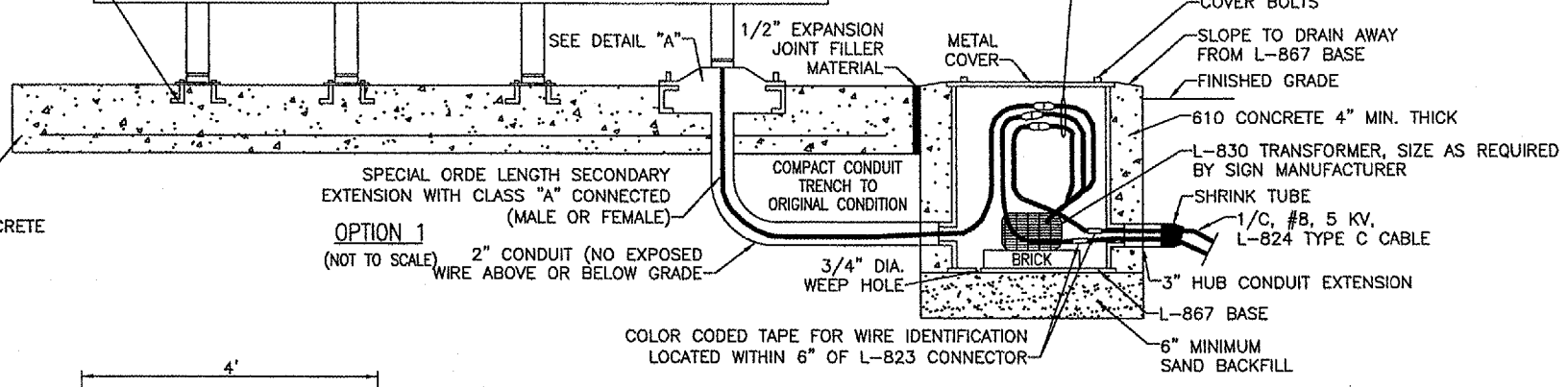
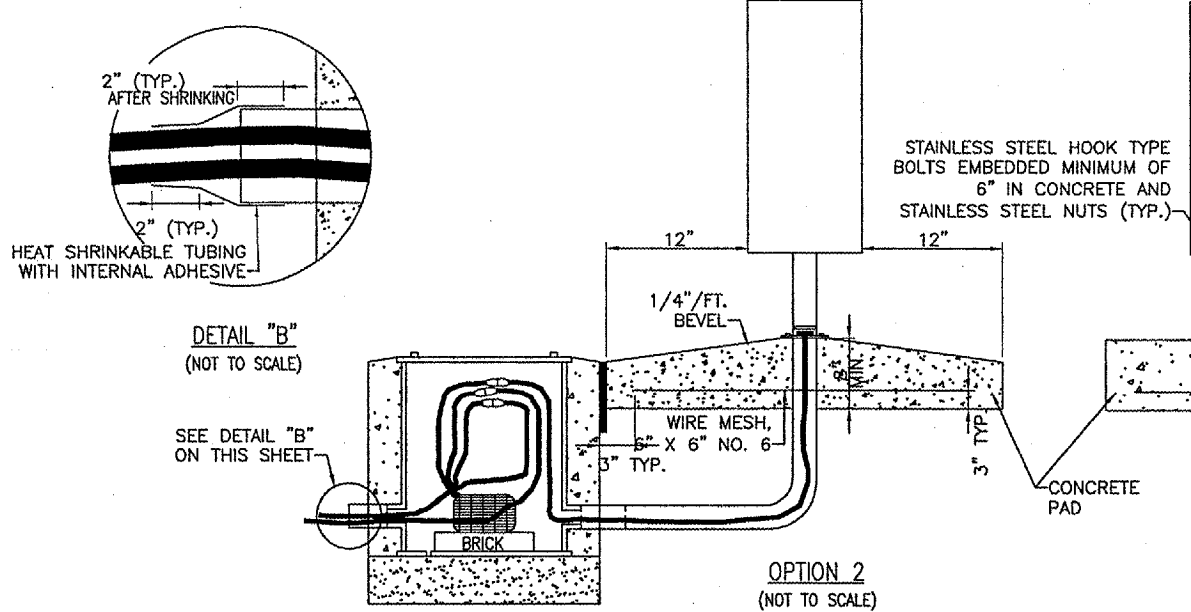
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REVIEWED: CAH	05/17/05



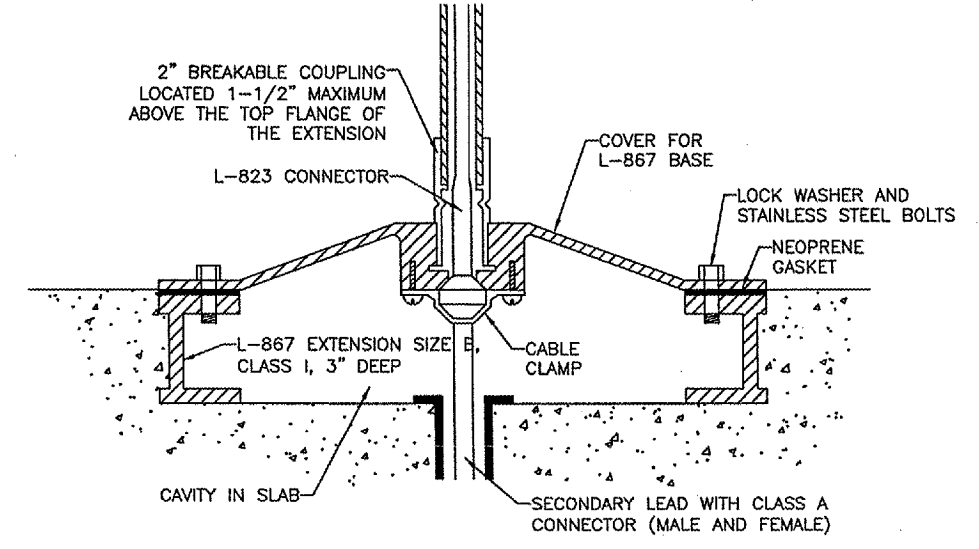
PARALLEL TAXIWAY TAXIWAY "B"
PROPOSED ELECTRICAL DETAILS

THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER NOR THE ENGINEER ASSUMES ANY RESPONSIBILITY WHATSOEVER, IN RESPECT TO THE ACCURACY OR SUFFICIENCY OF THE INFORMATION AND THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED, THAT THE CONDITIONS ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED IN THE CONSTRUCTION.

L-858 SIGN
NOTES:
SEE LIGHTING LAYOUT SHEET(S) FOR SIGN LEGEND, LOCATION, TYPE, SIZE, STYLE, AND CLASS.
NUMBER AND SPACING OF LEGS AS PER MANUFACTURER'S REQUIREMENTS.

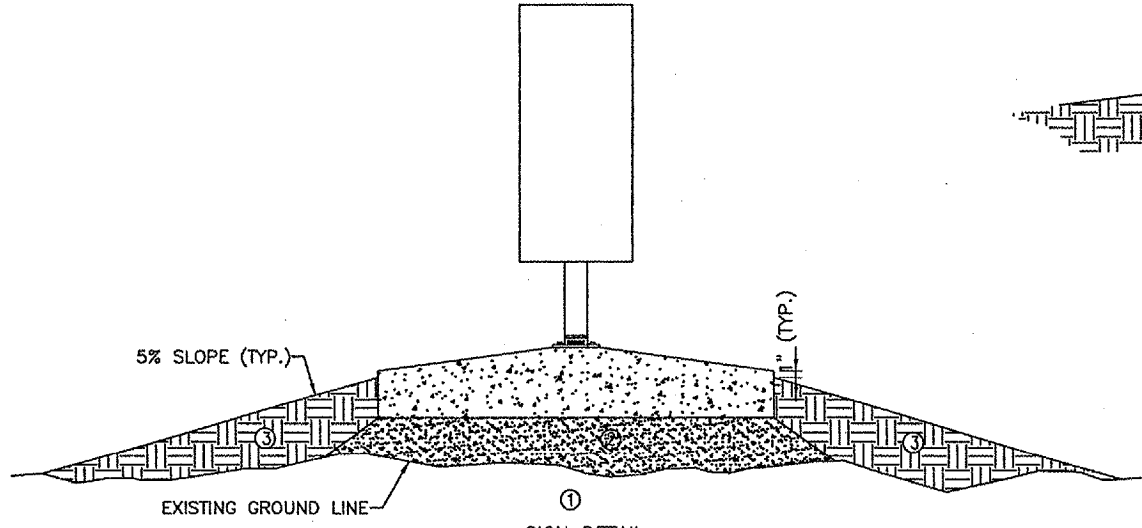


#10 PULL WIRE COIL A MINIMUM OF 3' AT DUCT ENDS. INSTALL APPROVED PLUGS IN END OF DUCTS NOT USED.
UNDERGROUND ELECTRICAL DUCT
(NOT TO SCALE)



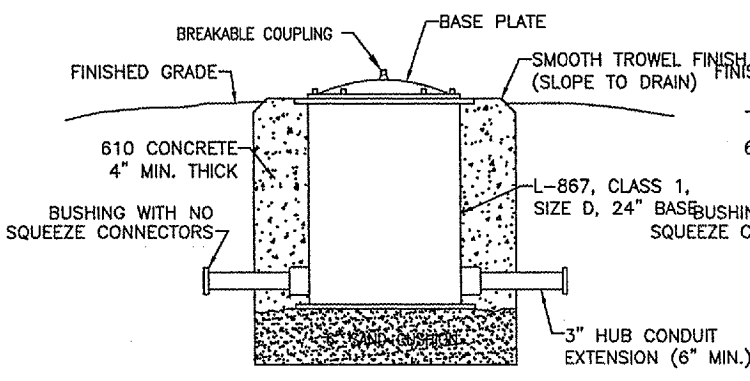
DETAIL "A"
(NOT TO SCALE)

GENERAL NOTES
SEE LIGHTING LAYOUT SHEET FOR SIGN LEGEND, LOCATION, TYPE, SIZE, AND CLASS.

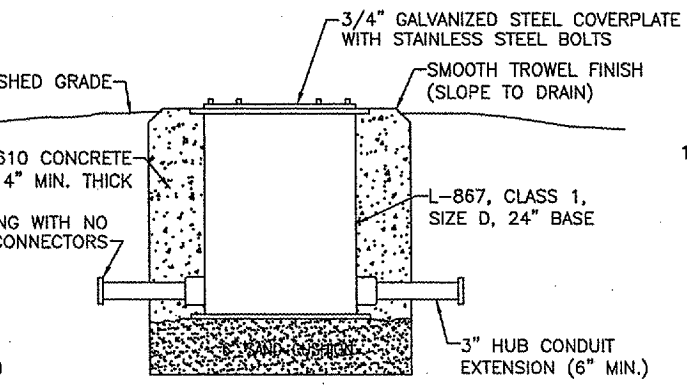


SIGN DETAIL
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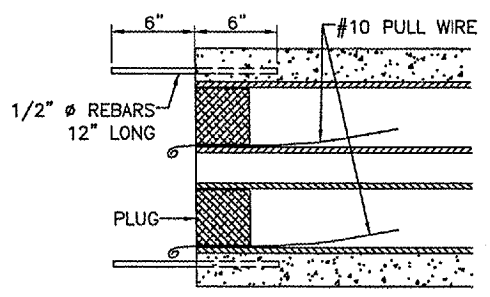
- ① EXISTING SOD TO BE STRIPPED AND REMOVED
- ② SAND BACKFILL, VARIABLE DEPTH
- ③ PROPOSED TOPSOIL BACKFILL MATERIAL



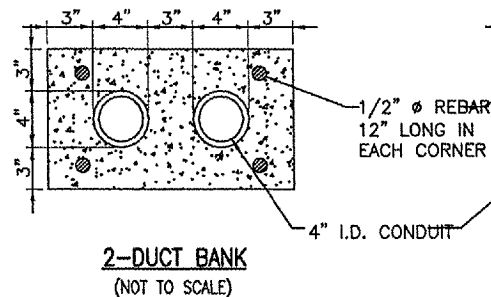
RAIL BASE DETAIL
(NOT TO SCALE)



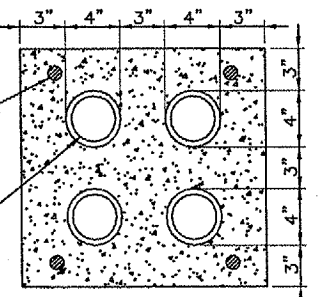
SPLICE CAN DETAIL
(NOT TO SCALE)



TYPICAL SECTION
(NOT TO SCALE)

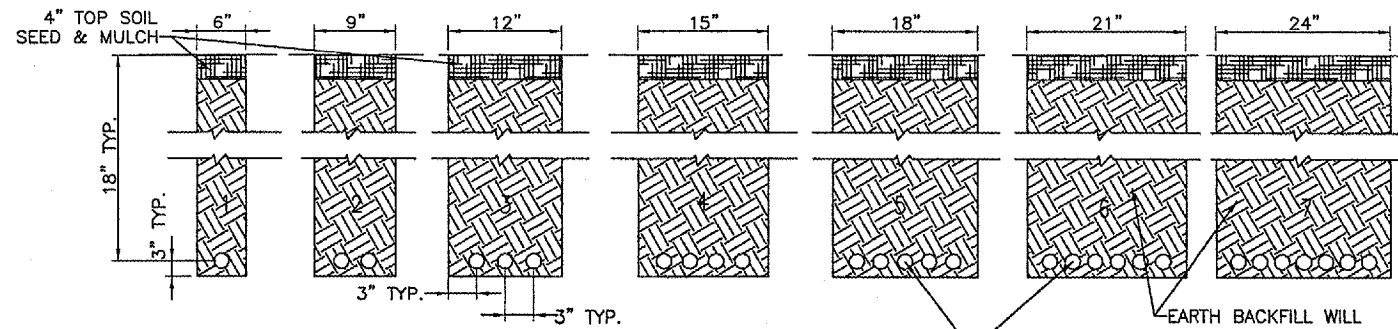


2-DUCT BANK
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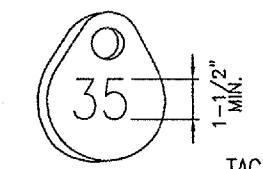
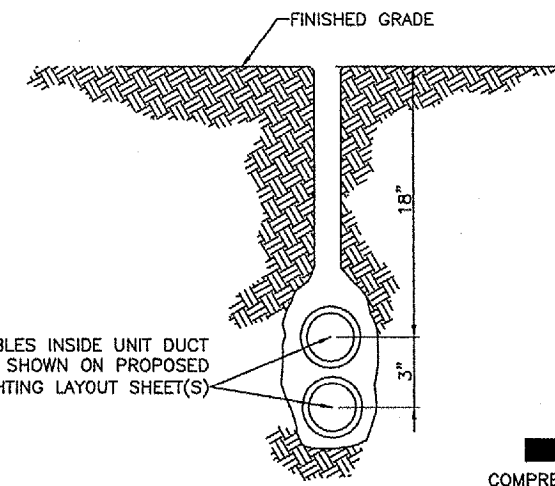


4-DUCT BANK
(NOT TO SCALE)

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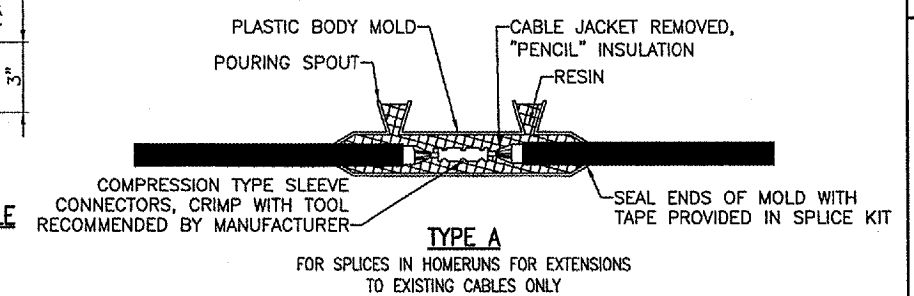


NOTES:
 DETAIL NUMBERS INDICATE NO. OF CABLES.
 TRENCHES WITH MORE THAN SEVEN CABLES SHALL BE INCREASED 3" IN WIDTH FOR EACH ADDITIONAL CABLE; IF SPECIFIED ON PLANS TWO PARALLEL TRENCHES MAY BE CONSTRUCTED.
 DEPTH OF TRENCHES SHALL BE AS SHOWN ABOVE UNLESS OTHERWISE SPECIFIED ON THE PLANS.
 ALL DISTURBED SURFACES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION. COST IS INCIDENTAL TO TRENCH.



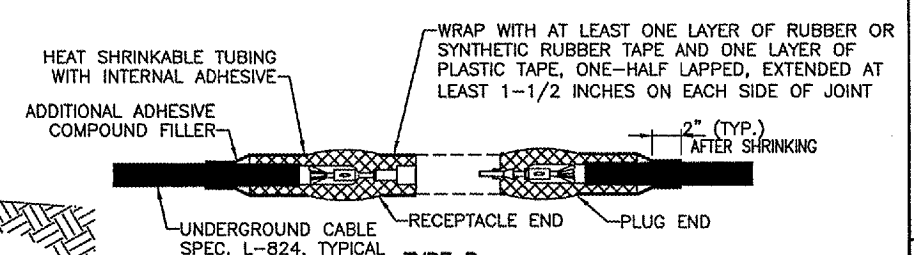
NOTE:
 AFFIX NON-CORROSIVE TAG TO FIXTURE FACING RUNWAY WITH SET SCREW, WIRE TIE, OR METAL BAND. NUMERALS SHALL BE ENGRAVED FOR PERMANENT READABILITY.

TAG DETAIL
 (NOT TO SCALE)



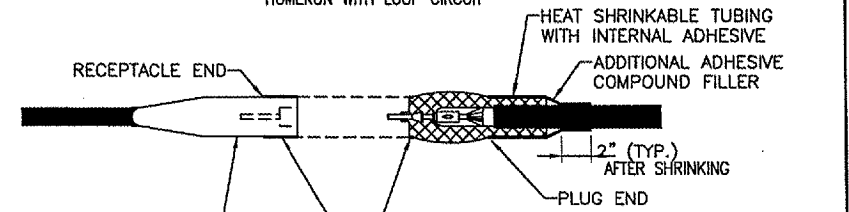
TYPE A

FOR SPLICES IN HOMERUNS FOR EXTENSIONS TO EXISTING CABLES ONLY



TYPE B

FOR SPLICES AT JUNCTION OF HOMERUN WITH LOOP CIRCUIT

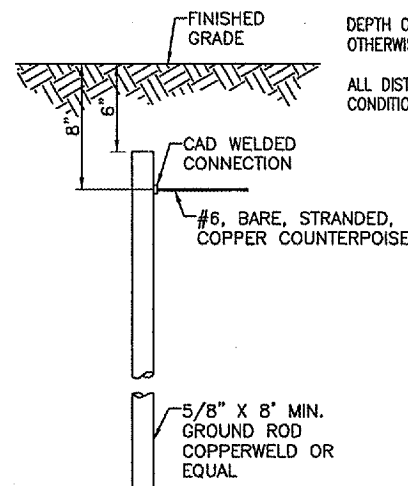


TYPE C

FOR SPLICES AT RUNWAY LIGHTS

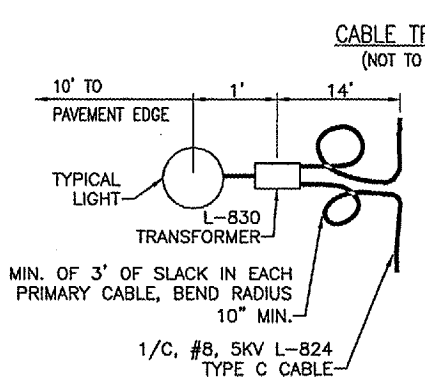
NOTES:
 SEE PROPOSED LIGHTING LAYOUT SHEET(S) FOR SPLICE TYPE.
 INSIDE DIAMETER OF CONNECTOR SHALL PROPERLY MATCH THE OUTSIDE DIAMETER OF CABLE.

CABLE SPLICES
 (NOT TO SCALE)



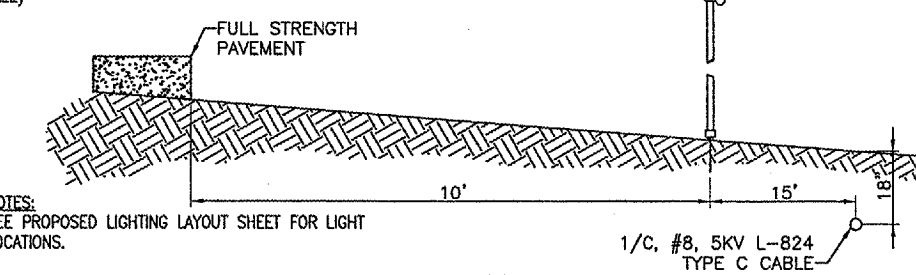
NOTES:
 TYPE AND MINIMUM NUMBER OF GROUND RODS SHALL BE AS SPECIFIED ON THE PLAN.
 THE RESISTANCE TO GROUND OF THE COUNTERPOISE GROUNDING SYSTEM SHALL NOT EXCEED 25 OHMS.
 COST OF GROUND RODS IS INCIDENTAL TO THE ASSOCIATED ITEMS REQUIRING GROUNDING UNLESS OTHERWISE SPECIFIED.

GROUND ROD
 (NOT TO SCALE)



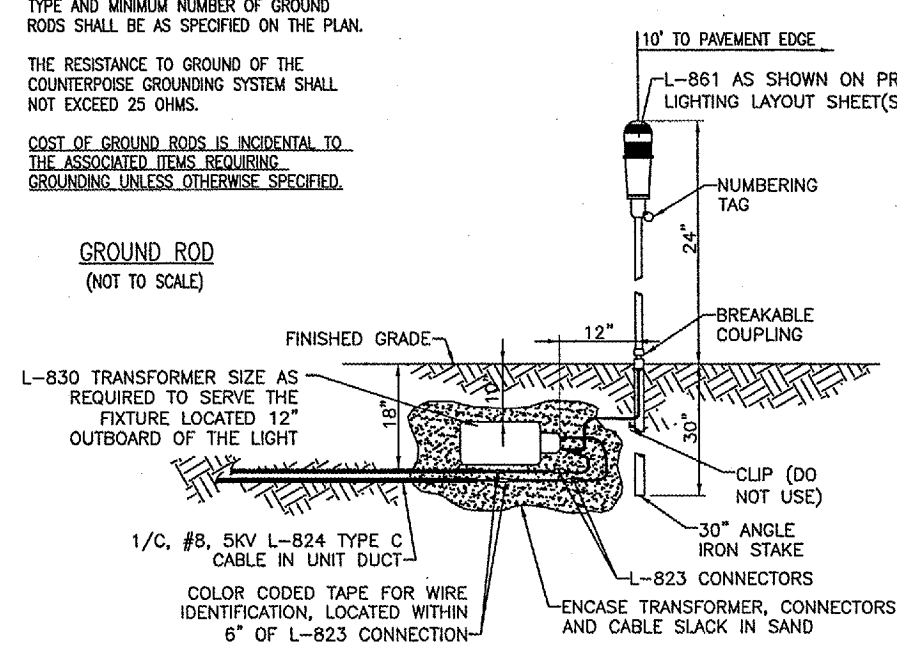
PLAN VIEW

LIGHT AND CABLE INSTALLATION DETAIL
 (NOT TO SCALE)

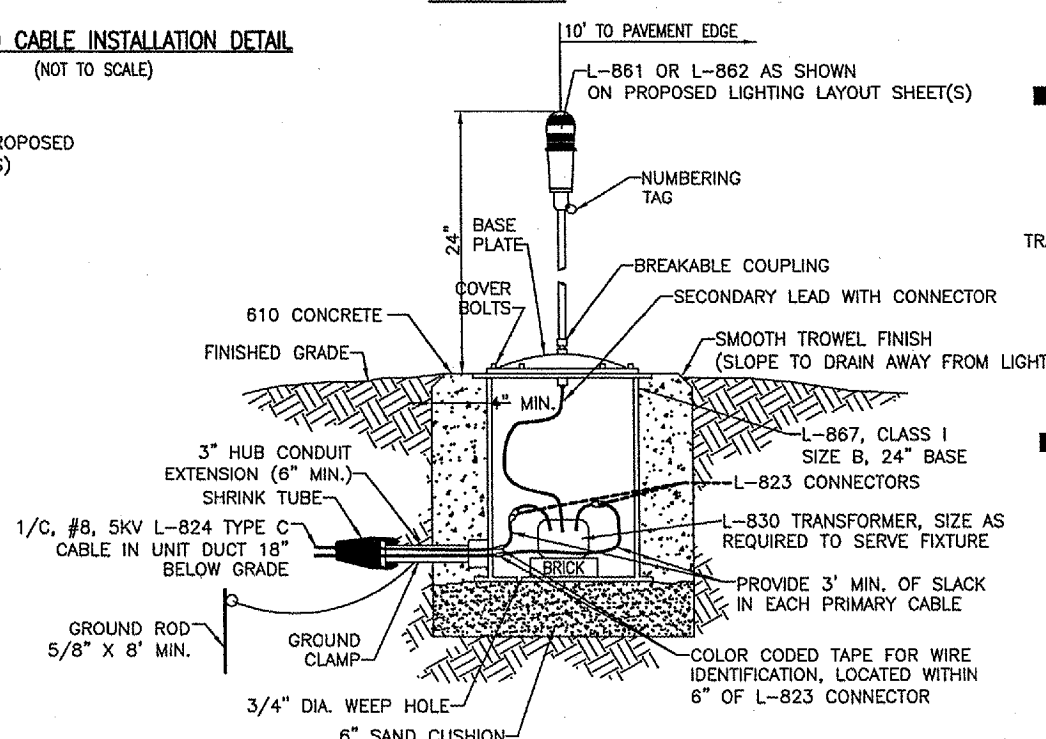


PROFILE VIEW

NOTES:
 SEE PROPOSED LIGHTING LAYOUT SHEET FOR LIGHT LOCATIONS.



MEDIUM INTENSITY LIGHT - STAKE MOUNTED
 (NOT TO SCALE)



MEDIUM/HIGH INTENSITY LIGHT - BASE MOUNTED
 (NOT TO SCALE)

BY	
REVISION	
DATE	
MT. STERLING MUNICIPAL AIRPORT MT. STERLING, ILLINOIS A.I.P. PROJ.: 3-17-0417-B6 I.L. PROJ.: 163-3431	
HEL. Project No. 818-05TX Filename: R-110-ELEC.dgn Scale: 07/14/2005, 11:28 AM Date:	LAYOUT: JEO 03/14/05 DRAWN: JEO 03/21/05 REVIEWED: CAH 05/17/05
HANSON Hanson Professional Services Inc. 1525 South Sixth Street Springfield, Illinois 62793-2986 Offices Nationwide	
PARALLEL TAXIWAY TAXIWAY "B" PROPOSED ELECTRICAL DETAILS	
27 27 of 57 sheets	

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FIELD LIGHTING NOTES


- UNLESS OTHERWISE NOTED, ALL UNDERGROUND FIELD POWER MULTIPLE AND SERIES CIRCUIT CONDUCTORS WHETHER DEB OR IN DUCT/CONDUIT SHALL BE FAA APPROVED L-824 TYPE. INSULATION VOLTAGE AND SIZE SHALL BE AS SPECIFIED.
- NO COMPONENTS OF PRIMARY CIRCUIT SUCH AS CABLE, CONNECTORS AND TRANSFORMERS SHALL BE BROUGHT ABOVE GROUND AT EDGE LIGHTS, SIGNS, REIL, PAPI, ETC.
- THERE SHALL BE NO EXPOSED POWER/CONTROL CABLES BETWEEN THE POINT WHERE THEY LEAVE THE UNDERGROUND (DEB OR L-867 BASES) AND WHERE THEY ENTER THE EQUIPMENT (SUCH AS TAXIWAY SIGNS, PAPI, REIL, ETC.) ENCLOSURES. THESE CABLES SHALL BE ENCLOSED IN RIGID CONDUIT OR IN FLEXIBLE, WATERTIGHT CONDUIT WITH BREAKABLE COUPLING(S) AT THE GRADE OR THE HOUSING COVER, AS SHOWN IN APPLICABLE DETAILS.
- THE JOINTS OF THE L-823 PRIMARY CONNECTORS SHALL BE WRAPPED WITH AT LEAST ONE LAYER OF RUBBER OR SYNTHETIC RUBBER TAPE AND ONE LAYER OF PLASTIC TAPE, ONE-HALF LAPPED, EXTENDING AT LEAST 1-1/2 INCHES ON EACH SIDE OF THE JOINT, AS SHOWN ON SHEET NO. 27.
- THE CABLE ENTRANCE INTO THE FIELD-ATTACHED L-823 CONNECTORS SHALL BE ENCLOSED BY A HEAT-SHRINKABLE TUBING WITH CONTINUOUS INTERNAL ADHESIVE, AS SHOWN ON SHEET NO. 27.
- L-823 TYPE II, TWO-CONDUCTOR SECONDARY CONNECTORS SHALL BE CLASS 'A' (FACTORY MOLDED).
- THERE SHALL BE NO SPLICES IN THE SECONDARY CABLE(S) WITHIN THE STEMS OF A RUNWAY/TAXIWAY EDGE/THRESHOLD LIGHTING FIXTURE AND THE WIREWAYS LEADING TO TAXIWAY SIGNS AND PAPI/REIL EQUIPMENT.
- ELECTRICAL INSULATING GREASE SHALL BE APPLIED WITHIN THE L-823, SECONDARY, TWO CONDUCTOR CONNECTORS TO PREVENT WATER ENTRANCE. THESE CONNECTORS SHALL NOT BE TAPED.
- DEB ISOLATION TRANSFORMERS SHALL BE BURIED AT A DEPTH OF TEN (10") INCHES ON A LINE CROSSING THE LIGHT AND PERPENDICULAR TO THE RUNWAY/TAXIWAY CENTERLINE AT A LOCATION TWELVE (12") INCHES FROM THE LIGHT OPPOSITE FROM THE RUNWAY/TAXIWAY.
- A SLACK OF THREE (3') FEET, MINIMUM, SHALL BE PROVIDED IN THE PRIMARY CABLE AT EACH TRANSFORMER/CONNECTOR TERMINATION. AT STAKE-MOUNTED LIGHTS, THE SLACK SHALL BE LOOSELY COILED IMMEDIATELY BELOW THE ISOLATION TRANSFORMER.
- DIRECTION OF PRIMARY CABLES SHALL BE IDENTIFIED BY COLOR CODING AS FOLLOWS: WHEN FACING LIGHT WITH BACK TO PAVEMENT, CABLE TO THE LEFT IS CODED RED AND CABLE TO RIGHT IS CODED BLUE. THIS APPLIES TO STAKE MOUNTED LIGHTS AND BASE MOUNTED LIGHTS WHERE THE BASE HAS ONLY ONE ENTRANCE.
- L-867 BASES SHALL BE SIZE B, 24" DEEP, CLASS I, UNLESS OTHERWISE NOTED.
- BASE MOUNTED BREAKABLE COUPLINGS SHALL NOT HAVE WEEP HOLES TO THE OUTSIDE. PLUGGED UP HOLES SHALL NOT BE ACCEPTABLE. IT SHALL BE A 1/4" DIAMETER, MINIMUM, OR EQUIVALENT OPENING FOR DRAINAGE FROM THE SPACE AROUND THE SECONDARY CONNECTOR INTO THE L-867 BASE.
- THE ELEVATION OF THE BREAKABLE COUPLING GROOVE SHALL NOT EXCEED 1-1/2" ABOVE THE EDGE OF THE COVER IN CASE OF BASE MOUNTED COUPLINGS, OR THE TOP OF THE STAKE IN CASE OF STAKE MOUNTED COUPLINGS.

- WHERE THE BREAKABLE COUPLING IS NOT AN INTEGRAL PART OF THE LIGHT FIXTURE STEM OR MOUNTING LEG, A BEAD OF SILICON SEAL SHALL BE APPLIED COMPLETELY AROUND LIGHT STEM OR WIREWAY AT BREAKABLE COUPLING TO PROVIDE A WATERTIGHT SEAL.
- TOPS OF THE STAKES SUPPORTING LIGHT FIXTURES SHALL BE FLUSH WITH THE SURROUNDING GRADE.
- PLASTIC LIGHTING FIXTURE COMPONENTS, SUCH AS LAMP HEADS, STEMS, BREAKABLE COUPLINGS, BASE COVERS, BRACKETS, STAKES, SHALL NOT BE ACCEPTABLE.
- THE TOLERANCE FOR THE HEIGHT OF RUNWAY/TAXIWAY EDGE LIGHTS SHALL BE: ONE (1) INCH. IN CASE OF STAKE MOUNTED LIGHTS, THE SPECIFIED LIGHTING FIXTURE HEIGHT SHALL BE MEASURED BETWEEN THE TOP OF THE STAKE AND THE TOP OF THE LENS. IN CASE OF BASE MOUNTED LIGHTS, THE SPECIFIED LIGHTING FIXTURE HEIGHT SHALL BE MEASURED BETWEEN THE TOP OF THE BASE FLANGE AND THE TOP OF THE LENS, THUS INCLUDING THE BASE COVER, THE FRANGIBLE COUPLING, THE STEM, THE LAMP HOUSING AND THE LENS.
- THE TOLERANCE FOR THE LATERAL SPACING (LIGHT LANE TO RUNWAY/TAXIWAY CENTERLINE) OF RUNWAY/TAXIWAY EDGE LIGHTS SHALL BE ONE (1) INCH. THIS ALSO APPLIES AT INTERSECTIONS TO LATERAL SPACING BETWEEN LIGHTS OF A RUNWAY/TAXIWAY AND THE INTERSECTING RUNWAY/TAXIWAY.
- ENTRANCES INTO L-867 BASES SHALL BE SEALED WITH HEAT SHRINK AS SHOWN IN DETAIL "B" ON SHEET NO. 26.
- GALVANIZED/PAINTED EQUIPMENT/COMPONENT SURFACES SHALL NOT BE DAMAGED BY DRILLING, FILING, ETC. DRAIN HOLES IN METAL TRANSFORMER HOUSINGS SHALL BE MADE BEFORE GALVANIZING.
- EDGE LIGHT NUMBERING TAGS SHALL BE FACING THE PAVEMENT.
- CABLE/SPLICE/DUCT MARKERS SHALL BE PRECAST CONCRETE OF THE SIZE SHOWN. LETTERS/NUMBERS/ARROWS FOR THE LEGEND TO BE IMPRESSED INTO THE TOPS OF THE MARKERS SHALL BE PRE-ASSEMBLED AND SECURED IN THE MOLD BEFORE THE CONCRETE IS POURED. LEGEND INSCRIBED BY HAND IN WET CONCRETE SHALL NOT BE ACCEPTABLE.
- ALL UNDERGROUND CABLE RUNS SHALL BE IDENTIFIED BY CABLE MARKERS AT 200 FEET MAXIMUM SPACING, WITH AN ADDITIONAL MARKER AT EACH CHANGE OF DIRECTION OF THE CABLE RUN. CABLE MARKERS SHALL BE INSTALLED IMMEDIATELY ABOVE THE CABLES.
- THERE SHALL BE NO SPLICES BETWEEN THE ISOLATION TRANSFORMERS. L-823 CONNECTORS ARE ALLOWED AT TRANSFORMER CONNECTIONS ONLY, UNLESS OTHERWISE SHOWN.
- APPLY AN OXIDE INHIBITING, ANTI-SEIZING COMPOUND TO ALL SCREWS, NUTS AND BREAKAGE COUPLING THREADS.
- LOCATIONS OF ENDS OF ALL UNDERGROUND DUCTS SHALL BE IDENTIFIED BY DUCT MARKERS.
- WHERE A PARALLEL, CONSTANT VOLTAGE PAPI SYSTEM IS PROVIDED, THE "T" SPLICES SHALL BE OF THE CAST TYPE.
- CONCRETE USED FOR SLABS, FOOTINGS, BACKFILL AROUND TRANSFORMER HOUSINGS, MARKINGS, ETC. SHALL BE 3000 PSI, AIR-ENTRAINED.
- ALL POWER AND CONTROL CABLES IN MAN/HAND HOLES SHALL BE TAGGED. USE EMBOSSED COPPER STRIPS TO BE ATTACHED AT BOTH ENDS TO THE CABLE BY THE USE OF PLASTIC STRAPS. MINIMUM OF TWO TAGS SHALL BE PROVIDED ON EACH CABLE IN A MAN/HAND HOLE--ONE AT THE CABLE ENTRANCE AND ONE AT THE CABLE EXIT.

GROUNDING NOTES

- ALL GROUND CONNECTIONS TO GROUND RODS, BUSES, PANELS, ETC. SHALL BE MADE WITH PRESSURE TYPE SOLDERLESS LUGS AND GROUND CLAMPS SOLDERED OR BOLT AND WASHER TYPE CONNECTIONS ARE NOT ACCEPTABLE. CLEAN ALL METAL SURFACES BEFORE MAKING GROUND CONNECTIONS. CONNECTIONS TO GROUND RODS SHALL BE EXOTHERMIC WELD WHERE SPECIFIED HEREIN.
- TOP OF GROUND RODS SHALL BE TEN (10) INCHES BELOW GRADE, UNLESS SPECIFIED OTHERWISE HEREIN, FOR RESPECTIVE APPLICATIONS.
- THE RESISTANCE TO GROUND OF THE VAULT GROUNDING SYSTEM WITH THE COMMERCIAL POWER LINE NEUTRAL DISCONNECTED SHALL NOT EXCEED 10 OHMS.

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MT. STERLING MUNICIPAL AIRPORT MT. STERLING, ILLINOIS A.I.P. PROJ.: 3-17-0417-B6 IL PROJ.: 163-3431					
HE Project No. B18-05TXX Elevation R-110-ELEC.dgn Scale Date 07/14/2005, 11:31 AM		LAYOUT JEO 03/14/05 DRAWN JEO 03/21/05 REVIEWED CAH 05/17/05			
 Hanson Professional Services Inc. 1525 South Sixth Street Springfield, Illinois 62703-2886 Offices Nationwide					
PARALLEL TAXIWAY TAXIWAY "B"		PROPOSED ELECTRICAL NOTES			
28 28 of 57 sheets					

GENERAL NOTES

- THE ELECTRICAL INSTALLATION, AS A MINIMUM, SHALL MEET THE NATIONAL ELECTRICAL CODE AND LOCAL REGULATIONS.
- THE CONTRACTOR SHALL ASCERTAIN THAT ALL LIGHTING SYSTEM COMPONENTS FURNISHED BY HIM, INCLUDING FAA APPROVED EQUIPMENT, ARE COMPATIBLE IN ALL RESPECTS WITH EACH OTHER AND THE REMAINDER OF THE NEW/EXISTING SYSTEM. ANY NONCOMPATIBLE COMPONENTS FURNISHED BY THIS CONTRACTOR SHALL BE REPLACED BY HIM AT NO ADDITIONAL COST TO THE AIRPORT SPONSOR WITH A SIMILAR UNIT, APPROVED BY THE ENGINEER (DIFFERENT MODEL OR DIFFERENT MANUFACTURE) THAT IS COMPATIBLE WITH THE REMAINDER OF THE AIRPORT LIGHTING SYSTEM.
- IN CASE THE CONTRACTOR ELECTS TO FURNISH AND INSTALL AIRPORT LIGHTING EQUIPMENT REQUIRING ADDITIONAL WIRING, TRANSFORMERS, ADAPTERS, MOUNTINGS, ETC., TO THOSE SHOWN ON THE DRAWINGS AND/OR LISTED IN THE SPECIFICATION, ANY COST FOR THESE ITEMS SHALL BE INCIDENTAL TO THE EQUIPMENT COST.
- THE CONTRACTOR INSTALLED EQUIPMENT (INCLUDING FAA APPROVED) SHALL NOT GENERATE ANY ELECTROMAGNETIC INTERFERENCE IN THE EXISTING AND/OR NEW COMMUNICATIONS, WEATHER, AIR NAVIGATION, AND AIR TRAFFIC CONTROL EQUIPMENT. ANY EQUIPMENT GENERATING SUCH INTERFERENCE SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST WITH THE EQUIPMENT MEETING THE APPLICABLE SPECIFICATIONS AND NOT GENERATING ANY INTERFERENCE.
- WHEN A SPECIFIC TYPE, STYLE, CLASS, ETC. OF FAA APPROVED EQUIPMENT IS SPECIFIED ONLY THAT TYPE, STYLE, CLASS, WILL BE ACCEPTABLE, EVEN THOUGH EQUIPMENT OF OTHER TYPES STYLES, CLASSES, ETC. MAY BE APPROVED.
- ANY AND ALL INSTRUCTIONS FROM THE ENGINEER TO THE CONTRACTOR REGARDING CHANGES IN OR DEVIATIONS FROM THE PLANS AND SPECIFICATIONS SHALL BE IN WRITING WITH COPIES SENT TO THE AIRPORT SPONSOR AND THE FAA FIELD OFFICE (ADO/AFO). THE CONTRACTOR SHALL NOT ACCEPT ANY VERBAL INSTRUCTIONS FROM THE RESIDENT ENGINEER REGARDING ANY CHANGES FROM THE PLANS AND SPECIFICATIONS.
- A MINIMUM OF THREE COPIES OF THE INSTRUCTION BOOK SHALL BE SUPPLIED WITH EACH DIFFERENT TYPE OF EQUIPMENT. THE BOOKS DESCRIBING A MORE SOPHISTICATED TYPE OF EQUIPMENT, SUCH AS REGULATORS, PAPI, REIL, ETC. AS A MINIMUM SHALL CONTAIN THE FOLLOWING:
 - A DETAILED DESCRIPTION OF THE OVERALL EQUIPMENT AND ITS INDIVIDUAL COMPONENTS.
 - THEORY OF OPERATION INCLUDING THE FUNCTION OF EACH COMPONENT.
 - INSTALLATION INSTRUCTIONS.
 - START-UP INSTRUCTIONS.
 - PREVENTATIVE MAINTENANCE REQUIREMENTS.
 - CHART FOR TROUBLE-SHOOTING.
 - COMPLETE POWER AND CONTROL DETAILED WIRING DIAGRAM(S), SHOWING EACH CONDUCTOR/ CONNECTION/COMPONENT - "BLACK" BOXES ARE NOT ACCEPTABLE. THE DIAGRAM OF THE NARRATIVE SHALL SHOW VOLTAGE/CURRENTS/WAVE SHAPES AT STRATEGIC LOCATIONS TO BE USED WHEN CHECKING AND/OR TROUBLE-SHOOTING THE EQUIPMENT. WHEN THE EQUIPMENT HAS SEVERAL MODES OF OPERATION, SUCH AS SEVERAL BRIGHTNESS STEPS, THESE PARAMETERS SHALL BE INDICATED FOR ALL DIFFERENT MODES.
 - PARTS LIST WHICH WILL INCLUDE ALL MAJOR AND MINOR COMPONENTS SUCH AS RESISTORS, DIODES, ETC. IT SHALL INCLUDE A COMPLETE NOMENCLATURE OF EACH COMPONENT AND, IF APPLICABLE, THE NAME OF ITS MANUFACTURE AND THE CATALOG NUMBER.
 - SAFETY INSTRUCTIONS.

POWER AND CONTROL NOTES

- STENCIL ALL ELECTRICAL EQUIPMENT TO IDENTIFY FUNCTION, CIRCUIT VOLTAGE AND PHASE. WHERE THE EQUIPMENT CONTAINS FUSES, ALSO STENCIL THE FUSE OR FUSE LINK AMPERE RATING. WHERE THE EQUIPMENT DOES NOT HAVE SUFFICIENT STENCILING AREA, THE STENCILING SHALL BE DONE ON THE WALL NEXT TO THE UNIT. THE LETTERS SHALL BE ONE INCH HIGH AND PAINTED IN WHITE OR BLACK TO PROVIDE THE HIGHEST CONTRAST WITH THE BACKGROUND.
- COLOR CODE ALL PHASE WIRING BY THE USE OF COLORED WIRE INSULATION AND/OR COLORED TAPE. WHERE TAPE IS USED, THE WIRE INSULATION SHALL BE BLACK, BLACK AND RED SHALL BE USED FOR SINGLE-PHASE, THREE WIRE SYSTEMS AND BLACK, RED AND BLUE SHALL BE USED FOR THREE-PHASE SYSTEMS. NEUTRAL CONDUCTORS, SIZE NO. 6 AWG OR SMALLER, SHALL BE IDENTIFIED BY A CONTINUOUS WHITE OR NATURAL GRAY OUTER FINISH ALONG ITS ENTIRE LENGTH. NEUTRAL CONDUCTORS LARGER THAN NO. 6 AWG SHALL BE IDENTIFIED EITHER BY A CONTINUOUS WHITE OR NATURAL GRAY OUTER FINISH ALONG ITS ENTIRE LENGTH OR BY THE USE OF WHITE TAPE AT ITS TERMINATIONS AND INSIDE ACCESSIBLE WIREWAYS.
- ALL BRANCH CIRCUIT CONDUCTORS CONNECTED TO A PARTICULAR PHASE SHALL BE IDENTIFIED WITH THE SAME COLOR. THE COLOR CODING SHALL BE EXTENDED TO THE POINT OF UTILIZATION.
- IN CONTROL WIRING THE SAME COLOR SHALL BE USED THROUGHOUT THE SYSTEM FOR THE SAME FUNCTION, SUCH AS 10%, 30%, 100% BRIGHTNESS CONTROL, ETC.
- LOW VOLTAGE (600 V.) AND HIGH VOLTAGE (5000 V.) CONDUCTORS SHALL BE INSTALLED IN SEPARATE WIREWAYS.
- NEATLY LACE WIRING IN DISTRIBUTION PANELS, WIREWAYS, SWITCHES AND JUNCTION/PULL BOXES.
- THE MINIMUM SIZE OF PULL/JUNCTION BOXES, REGARDLESS OF THE QUANTITY AND SIZE OF THE CONDUCTORS SHOWN, SHALL BE AS FOLLOWS:
 - IN STRAIGHT PULLS THE LENGTH OF THE BOX SHALL NOT BE LESS THAN EIGHT TIMES THE TRADE DIAMETER OF THE LARGER CONDUIT. THE TOTAL AREA (INCLUDING THE CONDUIT CROSS-SECTIONAL AREA) OF A BOX END SHALL BE AT LEAST 3 TIMES GREATER THAN THE TOTAL TRADE CROSS-SECTIONAL AREA OF THE CONDUITS TERMINATING AT THE END.
 - IN ANGLE PULLS OR 'U' PULLS THE DISTANCE BETWEEN EACH CONDUIT ENTRY INSIDE THE BOX AND THE OPPOSITE WALL OF THE BOX SHALL NOT BE LESS THAN SIX (6) TIMES THE TRADE DIAMETER DIAMETER OF THE LARGEST CONDUIT. THIS DISTANCE SHALL BE INCREASED FOR ADDITIONAL ENTRIES BY THE AMOUNT OF THE SUM OF THE DIAMETERS OF ALL OTHER CONDUIT ENTRIES ON THE SAME WALL AS THE BOX. THE DISTANCE BETWEEN CONDUIT ENTRIES ENCLOSING THE SAME CONDUCTOR SHALL NOT BE LESS THAN SIX TIMES THE TRADE DIAMETER OF THE LARGEST CONDUIT.
- A RUN OF CONDUIT BETWEEN TERMINATIONS AT EQUIPMENT ENCLOSURES, SQUARE DUCTS AND PULL/JUNCTION BOXES, SHALL NOT CONTAIN MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL), INCLUDING THOSE BENDS LOCATED IMMEDIATELY AT THE TERMINATIONS, CAST, CONDUIT TYPE OUTLETS SHALL NOT BE TREATED AS PULL/JUNCTION BOXES.
- EQUIPMENT CABINETS SHALL NOT BE USED AS PULL/JUNCTION BOXES. ONLY WIRING TERMINATING AT THE EQUIPMENT SHALL BE BROUGHT INTO THESE ENCLOSURES.
- SPLICES AND JUNCTION POINTS SHALL BE PERMITTED ONLY IN JUNCTION BOXES, DUCTS EQUIPPED WITH REMOVABLE COVERS, AND AT EASILY ACCESSIBLE LOCATIONS.
- CIRCUIT BREAKERS IN POWER DISTRIBUTION PANEL(S) SHALL BE THERMAL-MAGNETIC MOLDED CASE, PERMANENT TRIP WITH 100 AMPERE, MINIMUM FRAME.
- DUAL LUGS SHALL BE USED WHERE TWO (2) WIRES, SIZE NO. 6 OR LARGER, ARE TO BE CONNECTED TO THE SAME TERMINAL.
- ALL WALL MOUNTED EQUIPMENT ENCLOSURES SHALL BE MOUNTED ON WOODEN MOUNTING BOARDS, AND/OR GALVANIZED STEEL STRUT SUPPORT.
- WOODEN EQUIPMENT MOUNTING BOARDS SHALL BE PLYWOOD, EXTERIOR TYPE, 3/4 INCH, MINIMUM, THICKNESS, BOTH SIDES PAINTED WITH ONE COAT OF PRIMER AND TWO COATS OF GRAY OIL-BASED PAINT.
- RIGID STEEL CONDUIT SHALL BE USED THROUGHOUT THE INSTALLATION UNLESS OTHERWISE SPECIFIED. THE MINIMUM TRADE SIZE SHALL BE 3/4 INCH.
- ALL RIGID CONDUIT SHALL BE TERMINATED AT CONSTANT CURRENT REGULATORS WITH A SECTION (10" MINIMUM) OF FLEXIBLE CONDUIT.
- UNLESS OTHERWISE SHOWN, ALL EXPOSED CONDUITS SHALL BE RUN PARALLEL TO OR AT RIGHT ANGLES WITH THE LINES OF THE STRUCTURE.
- ALL STEEL CONDUITS, FITTINGS, NUTS, BOLTS, ETC. SHALL BE GALVANIZED.
- USE CONDUIT BUSHINGS AT EACH CONDUIT TERMINATION. WHERE NO. 4 AWG OR LARGER UNDERGROUND WIRE IS INSTALLED, USE INSULATED BUSHINGS.
- USE DOUBLE LOCK NUTS AT EACH CONDUIT TERMINATION.
- WRAP ALL PRIMARY AND SECONDARY POWER TRANSFORMER CONNECTIONS WITH SUFFICIENT LAYERS OF INSULATING TAPE AND COVER WITH INSULATING VARNISH FOR FULL VALUE OF CABLE INSULATION VOLTAGE.
- UNLESS OTHERWISE NOTED, ALL INDOOR SINGLE CONDUCTOR CONTROL WIRING SHALL BE NO. 12 AWG.
- THE FOLLOWING SHALL APPLY TO RELAY/CONTACTOR PANELS/ENCLOSURES:
 - ALL COMPONENTS SHALL BE MOUNTED IN DUST PROOF ENCLOSURE(S) WITH VERTICALLY HINGED COVERS.
 - THE ENCLOSURE(S) SHALL HAVE AMPLE SPACE FOR THE CIRCUIT COMPONENTS, TERMINAL BLOCKS AND INCOMING AND INTERNAL WIRING.
 - ALL CONTROL CONDUCTOR TERMINATIONS SHALL BE OF THE OPEN-EYE CONNECTOR/SCREW TYPE. SOLDERED CLOSED-EYE TERMINATIONS, OR TERMINATIONS WITHOUT CONNECTORS ARE NOT ACCEPTABLE.
 - WHEN THE ENCLOSURE COVER IS OPENED, ALL CIRCUIT COMPONENTS, WIRING AND TERMINALS SHALL BE EXPOSED AND ACCESSIBLE WITHOUT REMOVAL OF ANY PANELS, COVERS, ETC., EXCEPT THOSE COVERING HIGH VOLTAGE COMPONENTS.
 - ACCESS TO, OR REMOVAL OF A CIRCUIT COMPONENT OR TERMINAL BLOCK WILL NOT REQUIRE THE REMOVAL OF ANY OTHER CIRCUIT COMPONENT OR TERMINAL BLOCK.
 - EACH CIRCUIT COMPONENT SHALL BE CLEARLY IDENTIFIED INDICATING ITS CORRESPONDING NUMBER SHOWN ON THE DRAWINGS AND ITS FUNCTION.
 - A COMPLETE WIRING DIAGRAM (SCHEMATIC DIAGRAM) SHALL BE MOUNTED ON THE INSIDE OF THE COVER. THE DIAGRAM SHALL REPRESENT EACH CONDUCTOR BY A SEPARATE LINE.
 - THE DIAGRAM SHALL IDENTIFY EACH CIRCUIT COMPONENT AN NUMBERING AND COLOR OF EACH TERMINAL CONDUCTOR AND TERMINAL.
 - ALL WIRING SHALL BE NEATLY TRAINED AND LACED.
 - MINIMUM WIRE SIZE SHALL BE NO. 12 AWG.

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MT. STERLING MUNICIPAL AIRPORT
 MT. STERLING, ILLINOIS
 ILL. PROJ.: 163-3431 A.I.P. PROJ.: 3-17-0417-B6

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REVIEWED	CAH 03/14/05



PARALLEL TAXIWAY
 TAXIWAY "B"
 PROPOSED
 ELECTRICAL
 NOTES

ELECTRICAL LEGEND - ONE-LINE DIAGRAM	
	CABLE TERMINATOR/LUG
	TRANSFORMER
	DISCONNECT SWITCH
	FUSIBLE DISCONNECT SWITCH
	CIRCUIT BREAKER
	THERMAL MAGNETIC CIRCUIT BREAKER
	FUSE
	TRANSIENT VOLTAGE SURGE SUPPRESSOR OR SURGE PROTECTOR DEVICE
	GROUND - GROUND ROD, GROUNDING ELECTRODE, OR AT EARTH POTENTIAL
	INDICATING LIGHT
	MOTOR
	LOAD, MOTOR, # = HORSEPOWER
	ELECTRIC UTILITY METER BASE
	JUNCTION BOX WITH SPLICE
	EQUIPMENT, XXX = DEVICE DESCRIPTION
	GROUND BUS OR TERMINAL
	NEUTRAL BUS
	PANELBOARD WITH MAIN LUGS
	PANELBOARD WITH MAIN BREAKER
	FUSE PANEL WITH MAIN FUSE PULLOUT
	DUPLEX RECEPTACLE 120V SINGLE PHASE GROUNDING TYPE
	CONTROL STATION
	TRANSFER SWITCH
	ENGINE GENERATOR SET

ELECTRICAL LEGEND - SCHEMATIC	
	NORMALLY OPEN (N.O.) CONTACT
	NORMALLY CLOSED (N.C.) CONTACT
	STARTER COIL, * = STARTER NUMBER
	OVERLOAD RELAY CONTACT
	CONTROL RELAY, * = CONTROL RELAY NUMBER
	RELAY, * = RELAY NUMBER
	TOGGLE SWITCH / 2 POSITION SWITCH
	2-POSITION SELECTOR SWITCH
	3-POSITION SELECTOR SWITCH (H-O-A SHOWN)
	2 POLE DISCONNECT SWITCH
	3 POLE DISCONNECT SWITCH
	PHOTOCELL
	TERMINAL BLOCK, * = TERMINAL NUMBER
	DEVICE TERMINAL, * = DEVICE TERMINAL NUMBER
	INTERNAL PANEL WIRING
	FIELD WIRING
	FUSE
	GROUND BUS OR TERMINAL
	NEUTRAL BUS
	GROUND, GROUND ROD
	INDUSTRIAL CONTROL RELAY OR LIGHTING CONTACTOR
	S1 CUTOUT HANDLE REMOVED
	S1 CUTOUT HANDLE INSERTED
	N.O. THERMAL SWITCH
	N.C. THERMAL SWITCH

ELECTRICAL ABBREVIATIONS	
A.F.F.	ABOVE FINISHED FLOOR
A. AMP	AMPERES
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CR	CONTROL RELAY
CU	COPPER
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EP	EXPLOSION PROOF
ES	EMERGENCY STOP
ETM	ELAPSE TIME METER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GRSC	GALVANIZED RIGID STEEL CONDUIT
HID	HIGH INTENSITY DISCHARGE
HOA	HAND OFF AUTOMATIC
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
J	JUNCTION BOX
KVA	KILOVOLT AMPERE(S)
KW	KILOWATTS
LC	LIGHTING CONTACTOR
LTFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT (UL LISTED)
LP	LIGHTING PANEL
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCM	THOUSAND CIRCUIT MIL
MDP	MAIN DISTRIBUTION PANEL
MH	METAL HALIDE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OHE	OVERHEAD ELECTRIC
OL	OVERLOAD
PB	PULL BOX
PC	PHOTO CELL
PDB	POWER DISTRIBUTION BLOCK
PNL	PANEL

ELECTRICAL ABBREVIATIONS (CONTINUED)	
RPT	RECEPTACLE
R	RELAY
S	STARTER
SPD	SURGE PROTECTION DEVICE
SPST	SINGLE POLE SINGLE THROW
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
V	VOLTS
W/	WITH
W/O	WITHOUT
WP	WEATHER PROOF
XFER	TRANSFER
XFMR	TRANSFORMER

AIRPORT EQUIPMENT ABBREVIATIONS	
CCR	CONSTANT CURRENT REGULATOR
MRL	MEDIUM INTENSITY RUNWAY LIGHT
MIL	MEDIUM INTENSITY TAXIWAY LIGHT
NDB	NON-DIRECTIONAL BEACON
PAPI	PRECISION APPROACH PATH INDICATOR
PLASI	PULSE LIGHT APPROACH SLOPE INDICATOR
REIL	RUNWAY END IDENTIFIER LIGHT
VASI	VISUAL APPROACH SLOPE INDICATOR
WC	WIND CONE

ELECTRICAL LEGEND - PLANS	
	CONDUIT (EXPOSED)
	CONDUIT OR UNIT DUCT (CONCEALED OR BURIED)
	DUCT
	BURIED/UNDERGROUND ELECTRIC
	UNDERGROUND ELECTRIC
	OVERHEAD ELECTRIC
	POLE MOUNTED HID FIXTURE
	DUPLEX CONVENIENCE RECEPTACLE, 120V, SINGLE PHASE, GROUNDING TYPE, 48" A.F.F. EXCEPT AS NOTED
	WALL OR CEILING MTD. JUNCTION BOX. CONFIGURATION VARIES WITH USE
	SINGLE THROW DISCONNECT SWITCH
	SINGLE THROW, FUSIBLE DISCONNECT SWITCH
	ENCLOSED CIRCUIT BREAKER
	CONTROL PANEL
	MOTOR, ESTIMATED H.P. AS INDICATED.
	MOTOR
	TRANSFORMER
	ELECTRIC UTILITY METER
	ENCLOSURE
	CIRCUIT BREAKER PANEL-SEE SCHEDULES
	GROUND ROD
	LONG SLASHES INDICATE NEUTRAL. SHORT SLASHES INDICATE HOT OR SWITCHED LEG. G = SEPARATE GROUND WIRE.
	HOME RUN TO PANEL. PNL A INDICATES PANEL. 1,3,5 INDICATES CIRCUIT NUMBERS
	SINGLE POLE SWITCH
	FRACTIONAL HP STARTER
	CONTACTOR
	SURFACE MOUNTED OR CHAIN HUNG FLUORESCENT FIXTURE
	WALL OR CEILING MTD. INCANDESCENT OR HID FIXTURE.

NOTES:

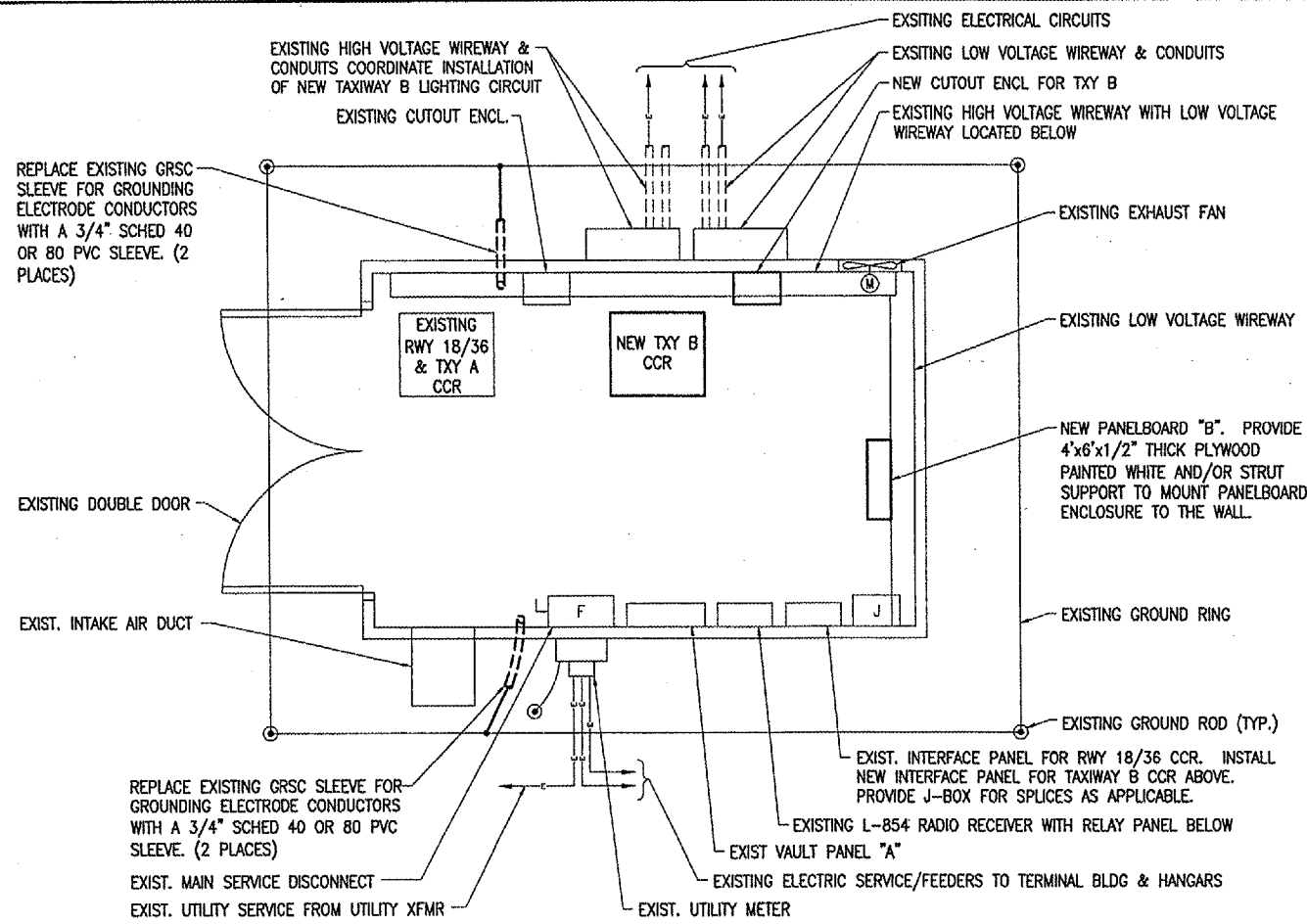
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 (MOST CURRENT ISSUE IN FORCE), THE RESPECTIVE EQUIPMENT MANUFACTURER'S DIRECTIONS AND ALL OTHER APPLICABLE LOCAL CODES, LAWS, ORDINANCES, AND REQUIREMENTS IN FORCE. ANY INSTALLATIONS WHICH VOID THE U.L. LISTING, ETL LISTING (OR OTHER THIRD PARTY LISTING) AND/OR THE MANUFACTURER'S WARRANTY OF A DEVICE SHALL NOT BE PERMITTED.
- CONTRACTOR SHALL COORDINATE WORK AND ANY POWER OUTAGES WITH THE RESPECTIVE FACILITY OWNER PERSONNEL AND THE AIRPORT MANAGER.
- COLOR CODE PHASE AND NEUTRAL CONDUCTOR INSULATION FOR NO. 6 AWG OR SMALLER. PROVIDE COLORED INSULATION OR COLORED MARKING TAPE FOR PHASE AND NEUTRAL CONDUCTORS FOR NO. 4 AWG AND LARGER. INSULATED GROUND CONDUCTORS SHALL HAVE GREEN COLORED INSULATION FOR ALL CONDUCTOR AWG AND/OR KCMIL. STANDARD COLORS FOR POWER WIRING AND BRANCH CIRCUITS SHALL BE AS FOLLOWS:

120/240 VAC, 1 PHASE, 3 WIRE
 PHASE A BLACK
 PHASE B RED
 NEUTRAL WHITE
 GROUND GREEN

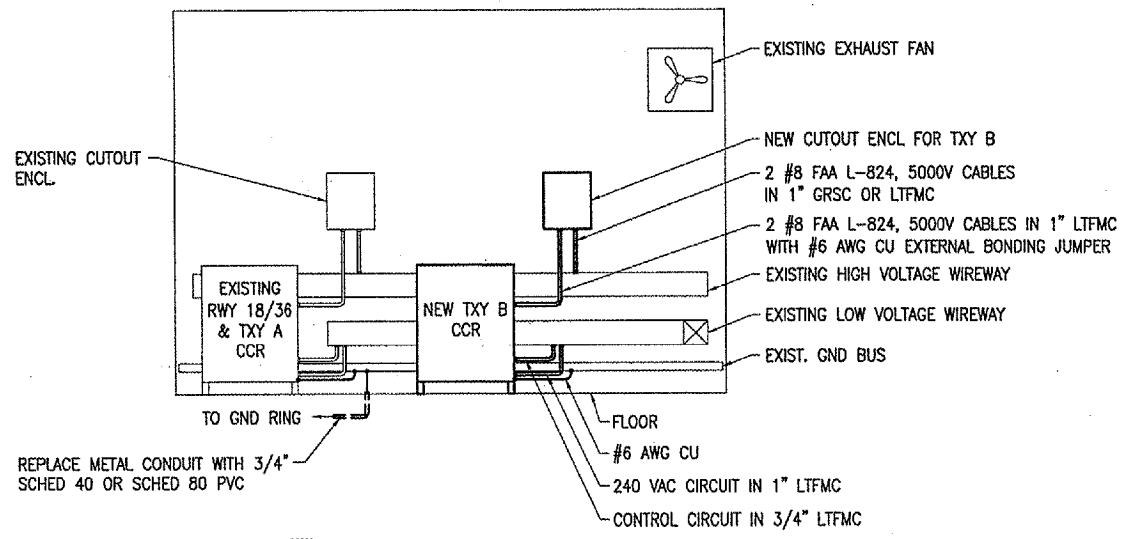
BY	
REVISION	
DATE	
MT. STERLING MUNICIPAL AIRPORT MT. STERLING, ILLINOIS	
A.I.P. PROJ.: 3-17-01-47-65 IL PROJ.: 63-3323	

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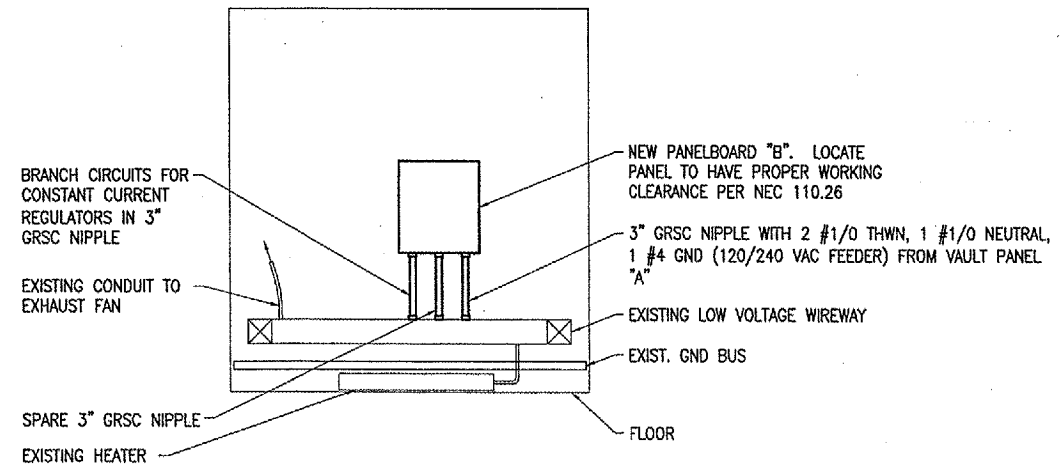
PARALLEL TAXIWAY
 TAXIWAY "B"
 ELECTRICAL LEGEND
 AND ABBREVIATIONS



VAULT FLOOR PLAN
 SCALE 1/2"=1'-0"
 1 0 2 4 FEET



VAULT NORTH ELEVATION
 SCALE 1/2"=1'-0"
 1 0 2 4 FEET



VAULT EAST ELEVATION
 SCALE 1/2"=1'-0"
 1 0 2 4 FEET

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 1-800-892-0123

DATE	REVISION	BY

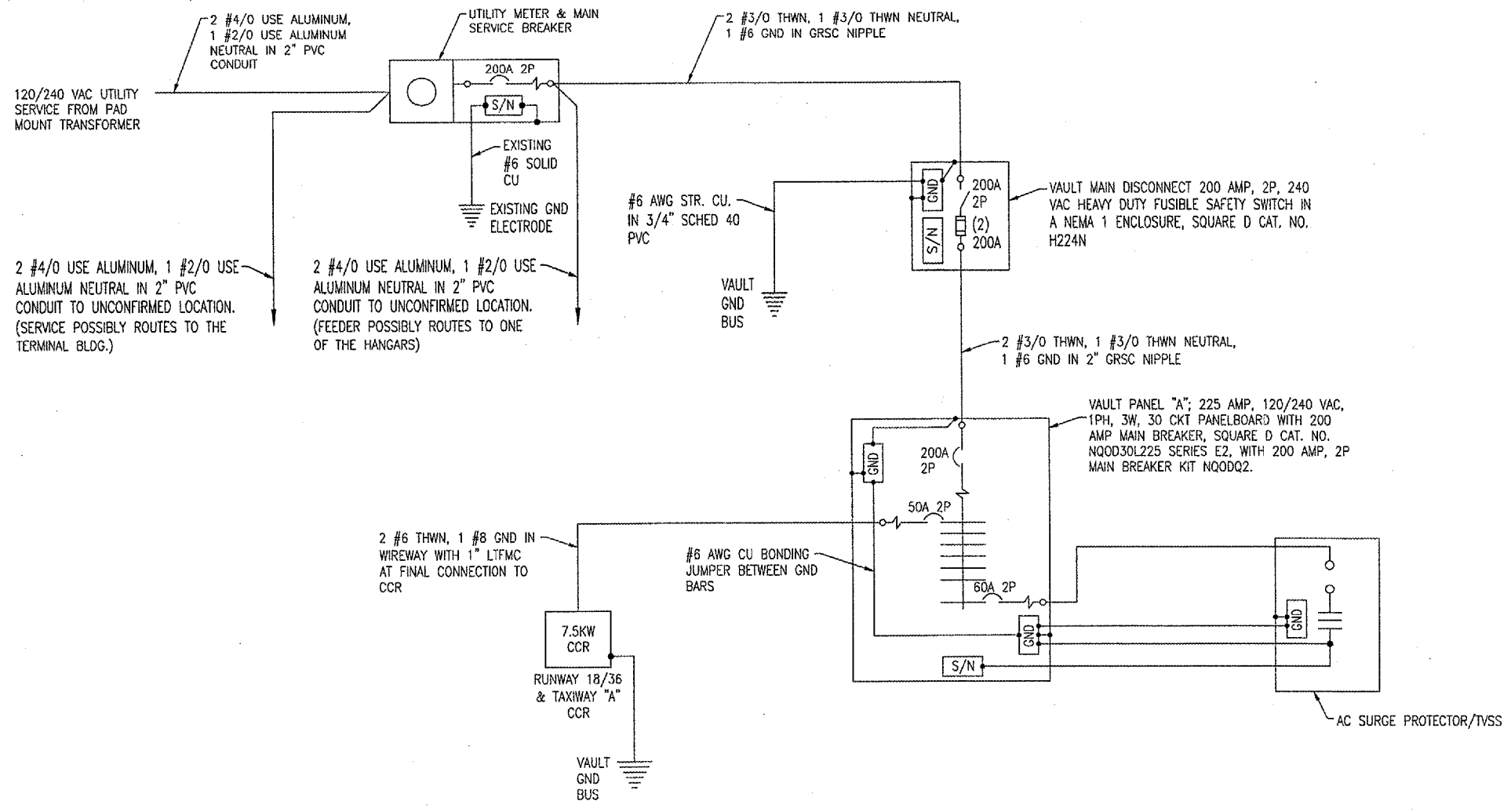
MT. STERLING MUNICIPAL AIRPORT
 MT. STERLING, ILLINOIS
 I.L. PROJ.: 163-3323
 A.I.P. PROJ.: 3-17-0147-B5

Project No. 818-04RWYD			
Revision E-101.DWG			
Scale N/A			
Date 03/21/05			
LAYOUT	KNL	03/14/05	
DRAWN	MV	03/21/05	
REVIEWED	CAH	05/17/05	



PARALLEL TAXIWAY
 TAXIWAY "B"
 VAULT FLOOR PLAN
 & ELEVATIONS

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NOTES

1. ALL VAULT WORK AND/OR POWER OUTAGES SHALL BE COORDINATED WITH THE AIRPORT MANAGER AND THE RESIDENT ENGINEER.
2. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS & REPORT ANY VARIATIONS TO RESIDENT ENGINEER. SOME OF THE EXISTING EQUIPMENT (INCLUDING THE 7.5 KW CCR & THE AC SURGE PROTECTOR/TVSS) ARE PRESENTLY UNDER CONSTRUCTION ON ANOTHER PROJECT.
3. CCR DENOTES CONSTANT CURRENT REGULATOR.

EXISTING VAULT ELECTRICAL ONE LINE DIAGRAM

EXISTING VAULT PANEL "A"						
CKT #	DUTY	SIZE		SIZE	DUTY	CKT #
1	RUNWAY 18/36 REGULATOR	50A 2P		20A 2P	APRON FLOOD LIGHTS	2
3				20A 1P	FUEL HOSE REEL	4
5	BEACON HEATER	20A 1P		20A 1P	VADI 18	6
7	VADI 36	20A 1P		20A 1P	EXHAUST FAN	8
9	WIND CONE	20A 1P		20A 1P	PHOTOCELL CONTROL	10
11	BEACON	30A 1P		20A 1P	BLDG LIGHTS & REC	12
13	RADIO CONTROL	20A 1P		20A 1P	CFN	14
15	REGULATOR BYPASS RELAY POWER	20A 1P		100A 2P	DOT FOODS HANGAR	16
17	100	20A 2P		20A 2P	HEATER	18
19				20A 2P		20
21	JET	20A 2P		20A 1P	DISP	22
23				60A 2P	AC SURGE PROTECTOR/TVSS	24
25	CONTROL (FUEL CONTROL)	15A 1P				26
27	BLANK	15A 1P				28
29	CARD SYSTEM	15A 1P				30

EQUIPT GND BAR [GND] [S/N]

EXISTING VAULT PANEL IS A SQUARE D CAT NO. NQOD30L225, SERIES E2, 225 AMPS, 120/240V 1 PH, 3W WITH 200 AMP, 2P MAIN BKR (ADD ON MAIN BKR KIT FOR NQOD MAIN LUG PANELBOARDS) NQODQ2

DATE	REVISION

MT. STERLING MUNICIPAL AIRPORT
MT. STERLING, ILLINOIS

IL PROJ.: 163-3323 A.I.P. PROJ.: 3-17-0147-B5

H/I Project No. 818-04RWTD	
Revision E-501.DWG	
Scale N/A	
Date 03/21/05	
LAYOUT KNL 03/14/05	
DRAWN WY 03/21/05	
REVIEWED CAH 05/17/05	



PARALLEL TAXIWAY TAXIWAY "B" EXISTING VAULT ELECTRICAL ONE LINE DIAGRAM

PANEL B SCHEDULE			
CKT #	DUTY	SIZE	CKT #
1	RUNWAY 18/36 & TAXIWAY A CCR	50A 2P	2
3			4
5	TAXIWAY B CCR	50A 2P	6
7			8
9	BLANK		10
11	BLANK		12
13	BLANK		14
15	BLANK		16
17	BLANK		18
19	BLANK		20

100 AMP, 120/240 VAC, 1 PHASE, 3 WIRE, 20 CIRCUIT PANELBOARD WITH MAIN LUGS IN A NEMA 1 ENCLOSURE. INCLUDE SEPARATE COPPER GROUND BAR KIT. ALL BRANCH BREAKERS SHALL BE BOLT-ON TYPE WITH 10,000 AIC AT 120/240 VAC. PANELBOARD SHALL BE SQUARE D CAT. NO. NQ0D20L100CU WITH MH23 ENCLOSURE OR APPROVED EQUAL.

NOTES:

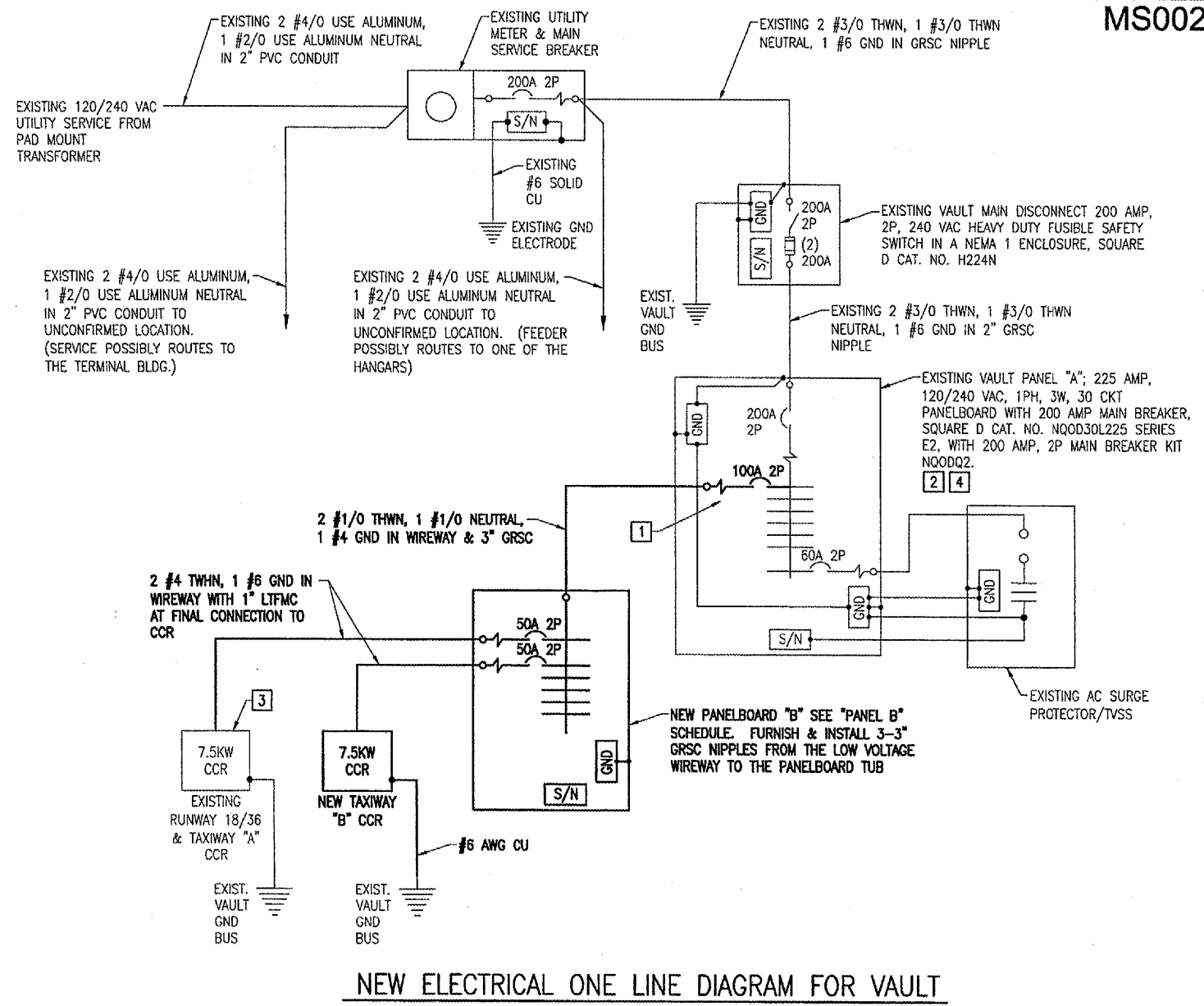
- PANELBOARD BUSES SHALL BE COPPER.
- CONTRACTOR SHALL CONFIRM POWER REQUIREMENTS WITH THE ACTUAL NAMEPLATE ON THE CCR AND ADJUST CIRCUIT BREAKER SIZE TO CONFORM WITH NEC & MANUFACTURER'S RECOMMENDATIONS WHERE APPLICABLE.

EXISTING VAULT PANEL "A" WITH ADDITIONS SCHEDULE			
CKT #	DUTY	SIZE	CKT #
1	PANELBOARD "B"	100A 2P	2
3			4
5	BEACON HEATER	20A 1P	6
7	VADI 36	20A 1P	8
9	WIND CONE	20A 1P	10
11	BEACON	30A 1P	12
13	RADIO CONTROL	10A 1P	14
15	REGULATOR BYPASS RELAY POWER	10A 1P	16
17	100	20A 2P	18
19			20
21	JET	20A 2P	22
23			24
25	CONTROL (FUEL CONTROL)	15A 1P	26
27	BLANK		28
29	CARD SYSTEM	15A 1P	30

EXISTING VAULT PANEL IS A SQUARE D CAT NO. NQ0D30L225, SERIES E2, 225 AMPS, 120/240V 1 PH, 3W WITH 200 AMP, 2P MAIN BKR (ADD ON MAIN BKR KIT FOR NQ0D MAIN LUG PANELBOARDS) NQ0DQ2.

NOTES:

- REPLACE THE 50 AMP, 2 POLE BREAKER (FOR RWY 18/36 CCR) IN POSITIONS 1 & 3 WITH A NEW 100 AMP, 2 POLE, BOLT-ON BREAKER WITH 10,000 AIC AT 120/240 VAC, SQUARE D CAT. NO. Q0B2100. THIS BREAKER SHALL FEED PANELBOARD "B". THE RWY 18/36 CCR CIRCUIT SHALL BE REPLACED AND RE-FED FROM PANELBOARD "B".
- REPLACE THE 20A, 1 POLE BREAKER FOR THE PHOTOCCELL CIRCUIT WITH A NEW 10 AMP, 1 POLE, BOLT-ON BREAKER WITH 10,000 AIC AT 120/240, SQUARE D CAT. NO. Q0B110.
- REPLACE THE 20A, 1 POLE BREAKER FOR THE REGULATOR BYPASS RELAY POWER CIRCUIT WITH A NEW 10 AMP, 1 POLE, BOLT-ON BREAKER WITH 10,000 AIC AT 120/240 VAC, SQUARE D CAT. NO. Q0B110.
- REPLACE THE 20A, 1 POLE BREAKER FOR THE EXHAUST FAN CIRCUIT WITH A NEW 15 AMP, 1 POLE, BOLT-ON BREAKER WITH 10,000 AIC AT 120/240 VAC, SQUARE D CAT. NO. Q0B115.
- REPLACE THE 20A, 1 POLE BREAKER FOR THE RADIO CIRCUIT WITH A NEW 10 AMP, 1 POLE BOLT-ON BREAKER WITH 10,000 AIC AT 120/240 VAC, SQUARE D CAT. NO. Q0B110.
- ALL EXISTING BREAKERS SCHEDULED FOR REPLACEMENT SHALL REMAIN AIRPORT AUTHORITY PROPERTY.
- UPDATE CIRCUIT DIRECTORY TO REFLECT ALL ADDITIONS.



KEYED NOTES

- REPLACE THE EXISTING 50 AMP, 2 POLE BREAKER THAT FEEDS RUNWAY 18/36 CCR WITH A 100 AMP, 2 POLE FOR USE AS THE FEEDER CIRCUIT TO PANELBOARD "B".
- SEE "EXISTING VAULT PANEL A WITH ADDITIONS" SCHEDULE FOR DETAILS ON CIRCUIT BREAKER REPLACEMENTS & ADDITIONS. FURNISH & INSTALL THE FOLLOWING NEW BREAKERS:
3-10 AMP, 1 POLE BOLT-ON BREAKERS
1-15 AMP, 1 POLE BOLT-ON BREAKER
1-100 AMP, 2 POLE BOLT-ON BREAKER
- THE EXISTING RUNWAY 18/36 CCR CIRCUIT SHALL BE REPLACED WITH A NEW CIRCUIT FROM PANELBOARD "B".
- REPLACE THE EXISTING #12 AWG BEACON BRANCH CIRCUIT CONDUCTORS WITH 1 #8 THWN, 1 #8 NEUTRAL, 1 #8 GND.

NOTES

- ALL VAULT WORK AND/OR POWER OUTAGES SHALL BE COORDINATED WITH THE AIRPORT MANAGER AND THE RESIDENT ENGINEER.
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS & REPORT ANY VARIATIONS TO RESIDENT ENGINEER.
- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED IN CONFORMANCE WITH NFPA 70 (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.
- ALL EQUIPMENT NOT LABELED AS EXISTING IS NEW.
- HIGH VOLTAGE & LOW VOLTAGE CIRCUITS SHALL NOT BE INSTALLED IN THE SAME RACEWAY.
- GRSC DENOTES GALVANIZED RIGID STEEL CONDUIT. LTFMC DENOTES LIQUID TIGHT FLEXIBLE METAL CONDUIT UL LISTED SUITABLE FOR GROUNDING, AND SUNLIGHT RESISTANT.
- VAULT WORK SHALL BE PAID FOR UNDER ITEM AR109200.

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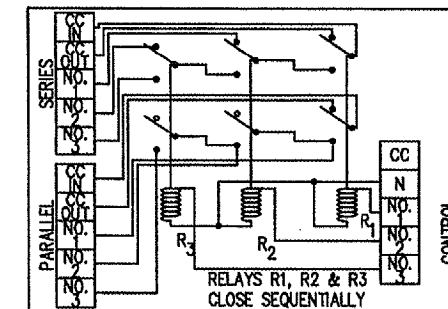
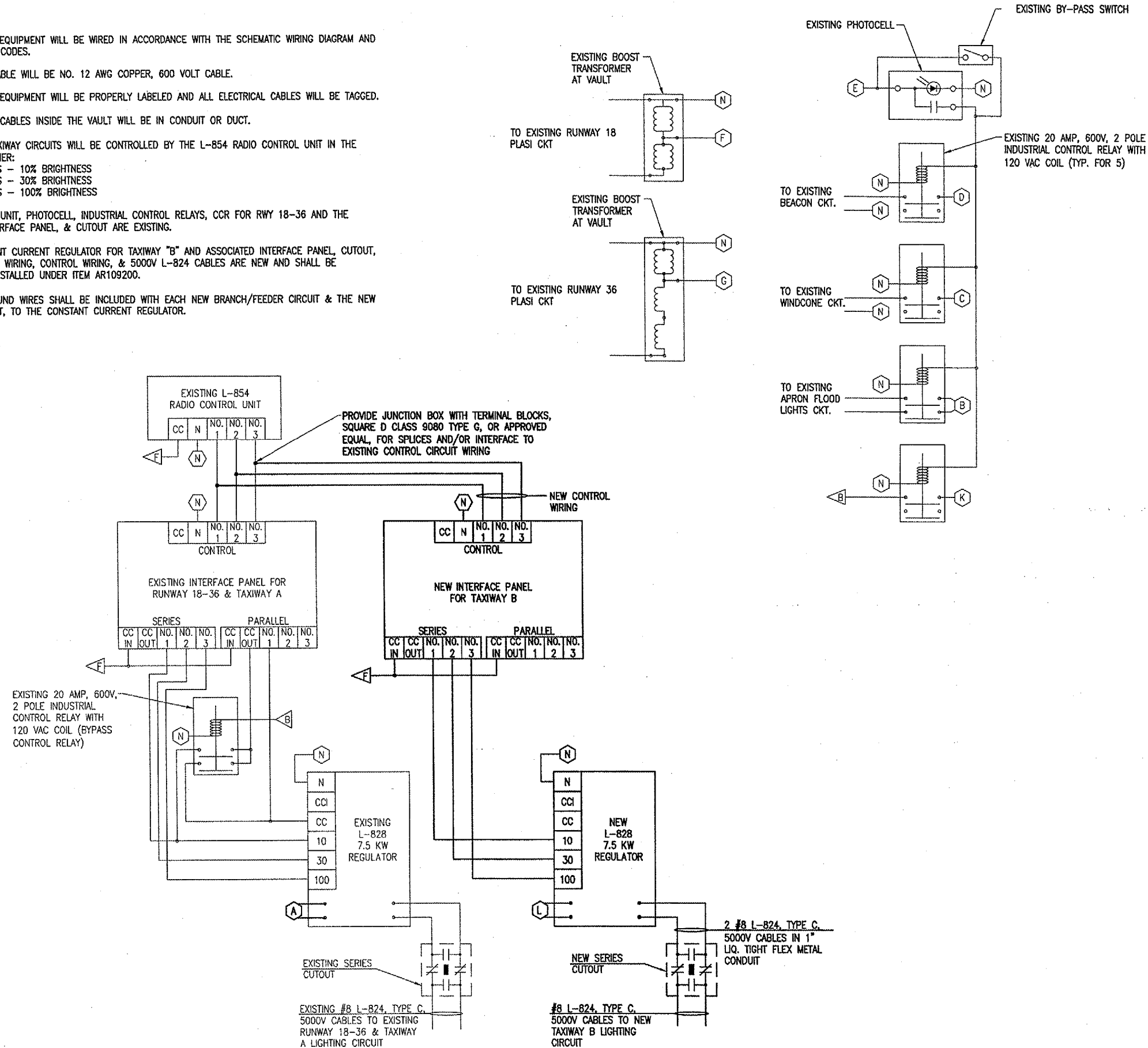
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REVISION	
DATE	
MT. STERLING MUNICIPAL AIRPORT MT. STERLING, ILLINOIS	
A.I.P. PROJ.: 3-17-0147-B5 I.L. PROJ.: 63-3323	
I/EI Project No. 818-04RWYD Filename E-602.DWG Scale N/A Date 03/21/05	LAYOUT KNL 03/14/05 DRAWN MW 03/21/05 REVIEWED CMH 05/17/05
Hanson Professional Services Inc. 1525 South Sixth Street Springfield, Illinois 62703-2886 Offices Nationwide	
PARALLEL TAXIWAY TAXIWAY "B" NEW ELECTRICAL ONE LINE FOR VAULT	
33 33 of 57 sheets	

NOTES

1. ALL ELECTRICAL EQUIPMENT WILL BE WIRED IN ACCORDANCE WITH THE SCHEMATIC WIRING DIAGRAM AND ALL APPLICABLE CODES.
2. ALL CONTROL CABLE WILL BE NO. 12 AWG COPPER, 600 VOLT CABLE.
3. ALL ELECTRICAL EQUIPMENT WILL BE PROPERLY LABELED AND ALL ELECTRICAL CABLES WILL BE TAGGED.
4. ALL ELECTRICAL CABLES INSIDE THE VAULT WILL BE IN CONDUIT OR DUCT.
5. THE RUNWAY/TAXIWAY CIRCUITS WILL BE CONTROLLED BY THE L-854 RADIO CONTROL UNIT IN THE FOLLOWING MANNER:
 3 CLICKS - 10% BRIGHTNESS
 5 CLICKS - 30% BRIGHTNESS
 7 CLICKS - 100% BRIGHTNESS
6. RADIO CONTROL UNIT, PHOTOCELL, INDUSTRIAL CONTROL RELAYS, CCR FOR RWY 18-36 AND THE RESPECTIVE INTERFACE PANEL, & CUTOFF ARE EXISTING.
7. 7.5 KW CONSTANT CURRENT REGULATOR FOR TAXIWAY "B" AND ASSOCIATED INTERFACE PANEL, CUTOFF, 240 VAC POWER WIRING, CONTROL WIRING, & 5000V L-824 CABLES ARE NEW AND SHALL BE FURNISHED & INSTALLED UNDER ITEM AR109200.
8. EQUIPMENT GROUND WIRES SHALL BE INCLUDED WITH EACH NEW BRANCH/FEEDER CIRCUIT & THE NEW CONTROL CIRCUIT, TO THE CONSTANT CURRENT REGULATOR.

SHEET LEGEND

- (A) PANEL B CKT 1, 3 (RWY 18-36 CCR)
- (B) VAULT PANEL A CKT 2, 4 (APRON FLOOD LIGHTS)
- (C) VAULT PANEL A CKT 9 (WIND CONE)
- (D) VAULT PANEL A CKT 11 (BEACON)
- (E) VAULT PANEL A CKT 12 (PHOTOCELL)
- (F) VAULT PANEL A CKT 13 (RADIO CONTROL)
- (G) VAULT PANEL A CKT 8 (RWY 18 PLASI)
- (H) RESERVED
- (I) RESERVED
- (J) RESERVED
- (K) VAULT PANEL A CKT 15 (REGULATOR BYPASS RELAY)
- (L) PANEL B CKT 5, 7 (TXY B CCR)
- (M) RESERVED
- (N) N DESIGNATES NEUTRAL FROM THE RESPECTIVE PANEL THAT POWERS THE DEVICE. FOR CONTROL CIRCUIT INPUTS TO CCR'S N SHALL BE FROM THE RESPECTIVE INTERFACE PANEL CIRCUIT NEUTRAL CONNECTION.



TYP. INTERFACE PANEL DETAIL

AIRFIELD LIGHTING SCHEMATIC WIRING DIAGRAM

BY	REVISION	DATE

MT. STERLING MUNICIPAL AIRPORT
 MT. STERLING, ILLINOIS

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 I.L. PROJ.: 63-3323

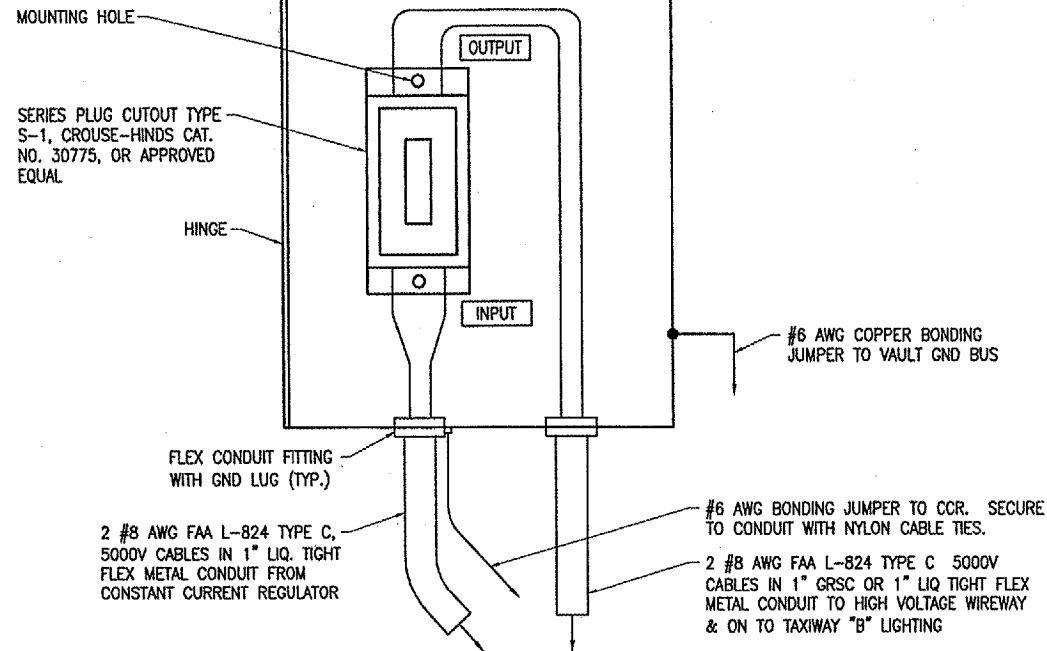
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PARALLEL TAXIWAY
 TAXIWAY "B"
 AIRFIELD
 LIGHTING
 WIRING SCHEMATIC

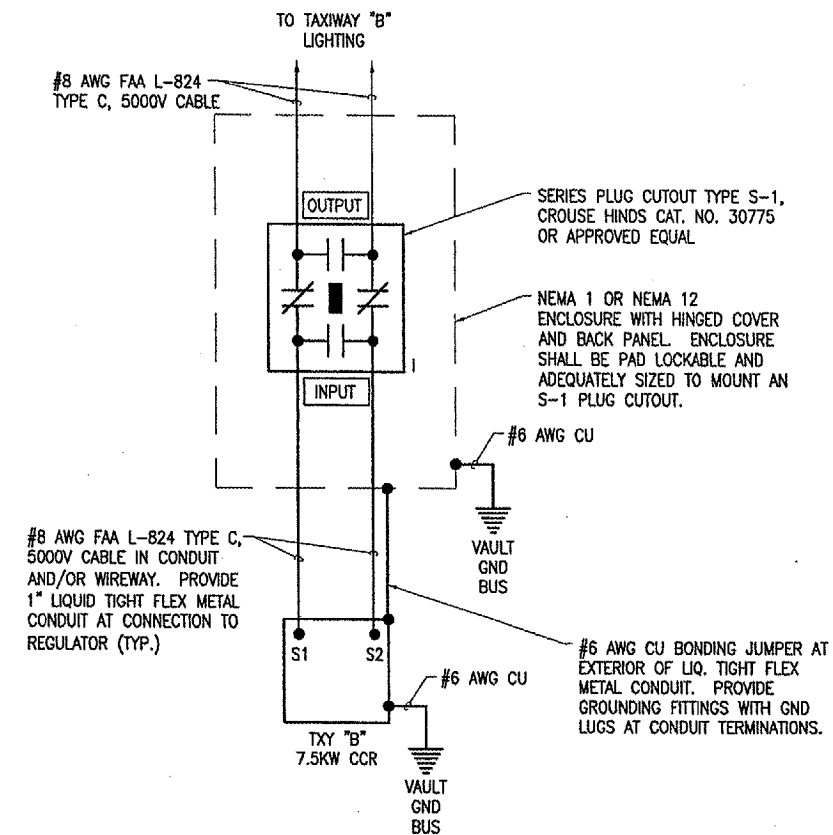
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14"H x 12"W x 8"D (APPROXIMATE DIMENSIONS)
NEMA 1 OR NEMA 12 ENCLOSURE WITH HINGED COVER & BACK PANEL. NOTE FRONT DOOR OF ENCLOSURE NOT SHOWN FOR CLARITY. ADJUST ENCLOSURE DIMENSIONS AS NECESSARY TO ACCOMMODATE THE RESPECTIVE CUTOUT.



SERIES PLUG CUTOUT MOUNTING DETAIL

NOT TO SCALE



HIGH VOLTAGE WIRING SCHEMATIC

LEGEND PLATE SCHEDULE	
DEVICE	LEGEND PLATE LABEL
VAULT MAIN PANELBOARD	MAIN VAULT PANEL A 120/240 VAC, 1 PH, 3W
VAULT SUB PANELBOARD "B"	PANEL B 120/240 VAC 1 PH, 3W FED FROM MAIN PANEL A
RUNWAY 18/36 & TAXIWAY A CCR	RUNWAY 18/36 & TAXIWAY A
TAXIWAY B CCR	TAXIWAY B
CUTOUT ENCLOSURE FOR RUNWAY 18/36 & TAXIWAY A CCR	RUNWAY 18/36 & TAXIWAY A
CUTOUT ENCLOSURE FOR TAXIWAY B CCR	TAXIWAY B
EACH CUTOUT LINE SIDE CONNECTION	INPUT
EACH CUTOUT LOAD SIDE CONNECTION	OUTPUT
INTERFACE PANEL FOR RUNWAY 18/36 CCR	RUNWAY 18/36 & TAXIWAY A
INTERFACE PANEL FOR TAXIWAY B CCR	TAXIWAY B
HIGH VOLTAGE WIREWAY	HIGH VOLTAGE
LOW VOLTAGE WIREWAY (EACH WALL)	LOW VOLTAGE

NOTES
ALL LEGEND PLATES SHALL BE ENGRAVED PHENOLIC OR PLASTIC MATERIAL, BLACK LETTERS ON A WHITE BACKGROUND.

NOTES

1. PROVIDE PHENOLIC ENGRAVED LEGEND PLATES FOR EACH CONSTANT CURRENT REGULATOR (EXISTING & NEW) NOTING THE RUNWAY AND/OR TAXIWAY SERVED.
2. EACH PLUG CUTOUT CABINET (EXISTING & NEW) SHALL BE FURNISHED WITH A PHENOLIC ENGRAVED LEGEND PLATE THAT IDENTIFIES THE RESPECTIVE RUNWAY/TAXIWAY CIRCUIT OR REGULATOR.
3. PROVIDE PHENOLIC ENGRAVED LEGEND PLATES FOR EACH CUTOUT (EXISTING & NEW) TO IDENTIFY THE RESPECTIVE REGULATOR OUTPUT CONNECTION AND THE RESPECTIVE CIRCUIT LOAD CONNECTION.
4. BOND EACH PLUG CUTOUT CABINET (EXISTING & NEW) TO THE VAULT GROUND BUS WITH A #6 AWG COPPER BONDING JUMPER.
5. PROVIDE ADEQUATE WORKING SPACE IN FRONT OF EACH CUTOUT ENCLOSURE TO MEET NEC CLEARANCE REQUIREMENTS.
6. PROVIDE WARNING SIGN ON VAULT DOOR LABELED "DANGER - HIGH VOLTAGE - KEEP OUT" PER THE REQUIREMENTS OF NEC 110.34 (C).
7. LIQUID TIGHT FLEXIBLE METAL CONDUIT SHALL BE U.L. LISTED SUITABLE FOR GROUNDING. LIQUID TIGHT FLEXIBLE METAL CONDUIT THAT IS NOT LISTED SUITABLE FOR GROUNDING SHALL REQUIRE AN EXTERNAL OR INTERNAL #6 AWG COPPER BONDING JUMPER WITH APPROPRIATE GROUNDING FITTINGS OR LUGS. 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.

LEGEND

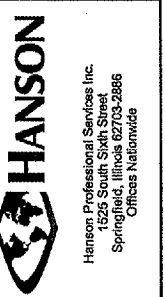
- "I" DENOTES PLUG CUTOUT WITH PLUG INSERTED
- "P" DENOTES PLUG CUTOUT WITH PLUG PULLED
- "CCR" DENOTES CONSTANT CURRENT REGULATOR

REVISION	DATE	BY

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MT. STERLING, ILLINOIS

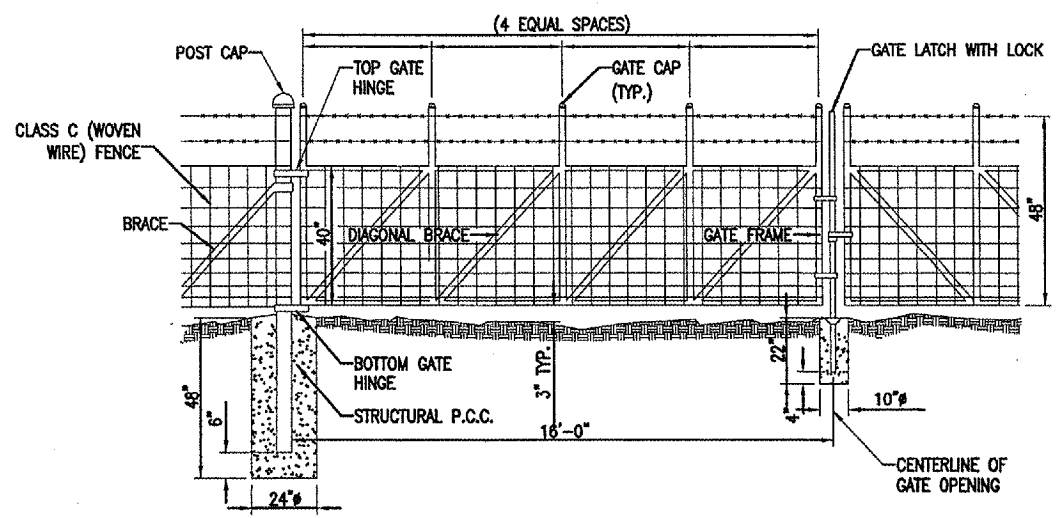
IL PROJ.: 163-3323 A.I.P. PROJ.: 3-17-0147-B5

HEI Project No.	Scale	Date	LAYOUT	DRAWN	REVIEWED
818-04RWYD	N/A	03/21/05	KNL	MV	CAH



PARALLEL TAXIWAY
TAXIWAY "B"
HIGH VOLTAGE
WIRING SCHEMATIC

JUL 14, 2005 1:01 PM BAK
I:\AIRPORTS\MSTERLING\818-05TAXIWAY\AIRPORT\SHEETS\E-604.DWG - Work-FLR



ONE HALF OF A 32' DOUBLE GATE DETAIL

REVISION	DATE	BY

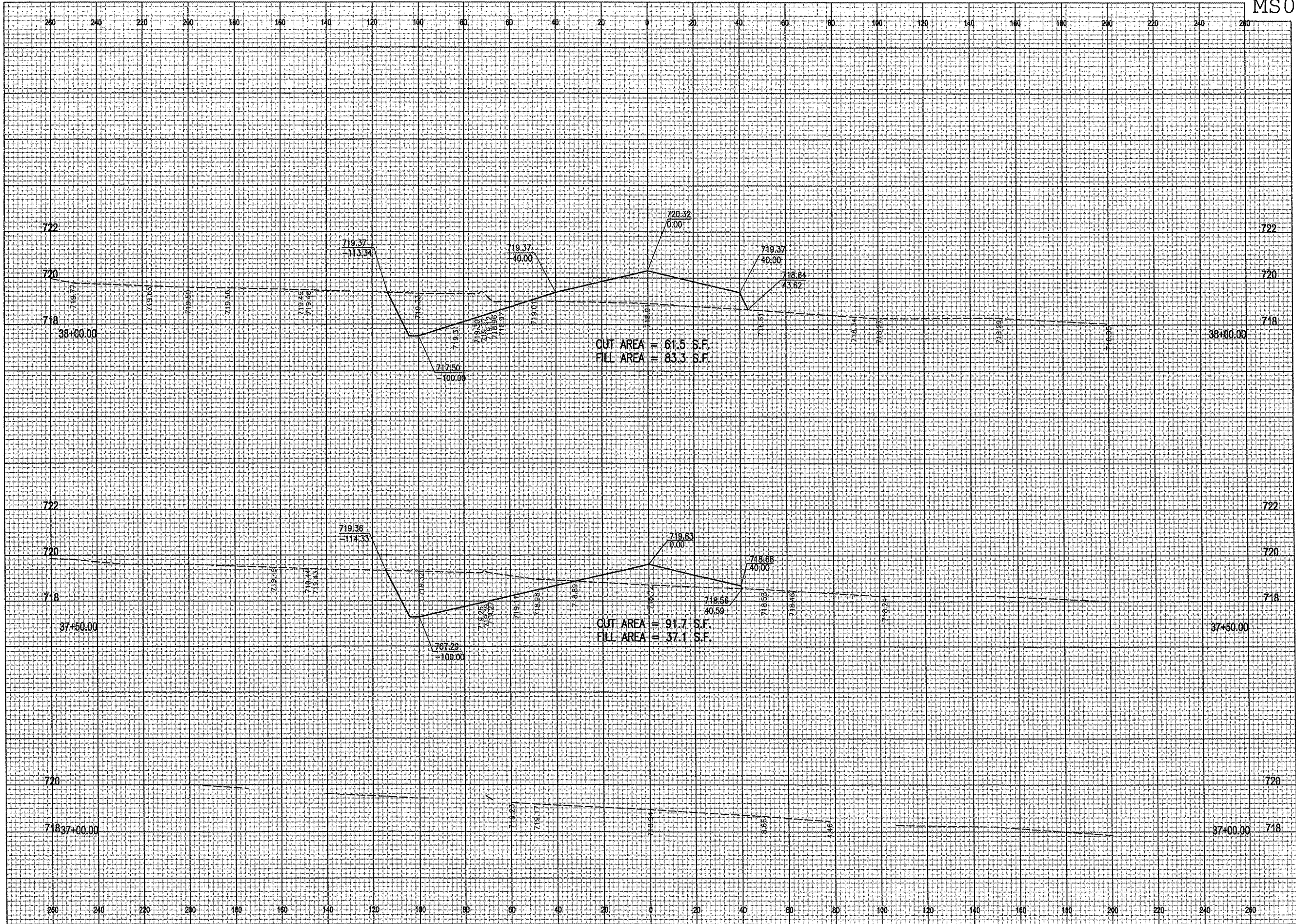
MT. STERLING MUNICIPAL AIRPORT
 MT. STERLING, ILLINOIS

IL PROJ.: 163-3431 A.I.P. PROJ.: 3-17-0417-B6

HEL Project No. 818-05TX Filename: R-17\FEN.dgn Scale: SCALE Date: 07\14\2005, 01:05 PM	
LAYOUT	JEO 03/21/05
DRAWN	JEO 05/17/05
REVIEWED	CAH 03/14/05



PARALLEL TAXIWAY
 TAXIWAY "B"
 PROPOSED
 FENCE DETAILS



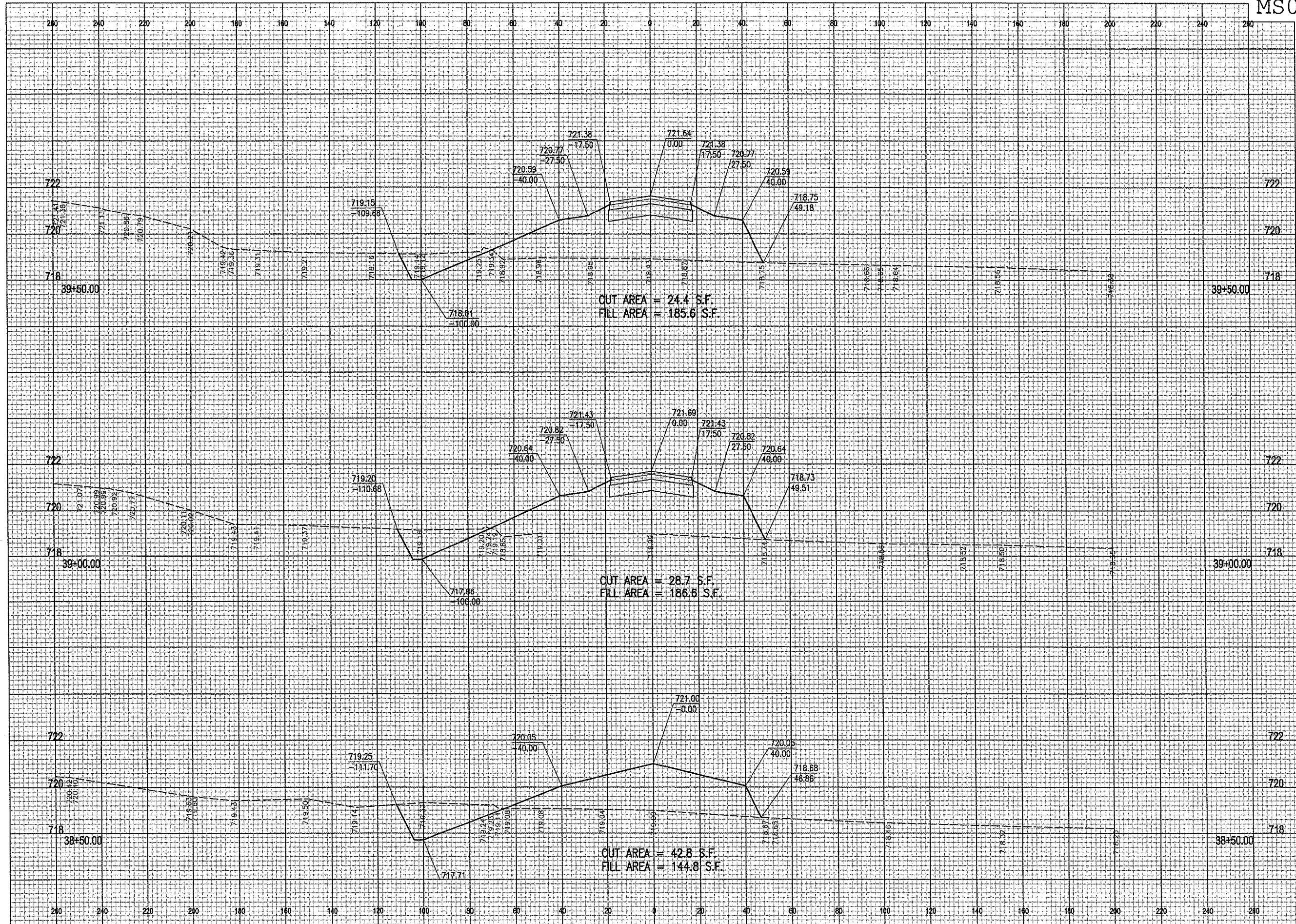
DATE	REVISION	BY

MT. STERLING MUNICIPAL AIRPORT
 MT. STERLING, ILLINOIS
 IL PROJ.: 163-3431 A.I.P. PROJ.: 3-17-04-17-B6

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LAYOUT JEO	03/14/05
DRAWN JEO	03/21/05
REVIEWED CAH	05/17/05



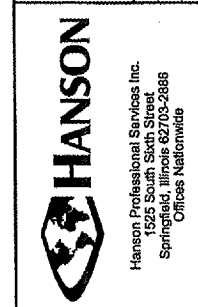
PROPOSED
 PARALLEL TAXIWAY
 TAXIWAY "B"
 CROSS SECTIONS
 STA. 37+00 TO STA. 38+00



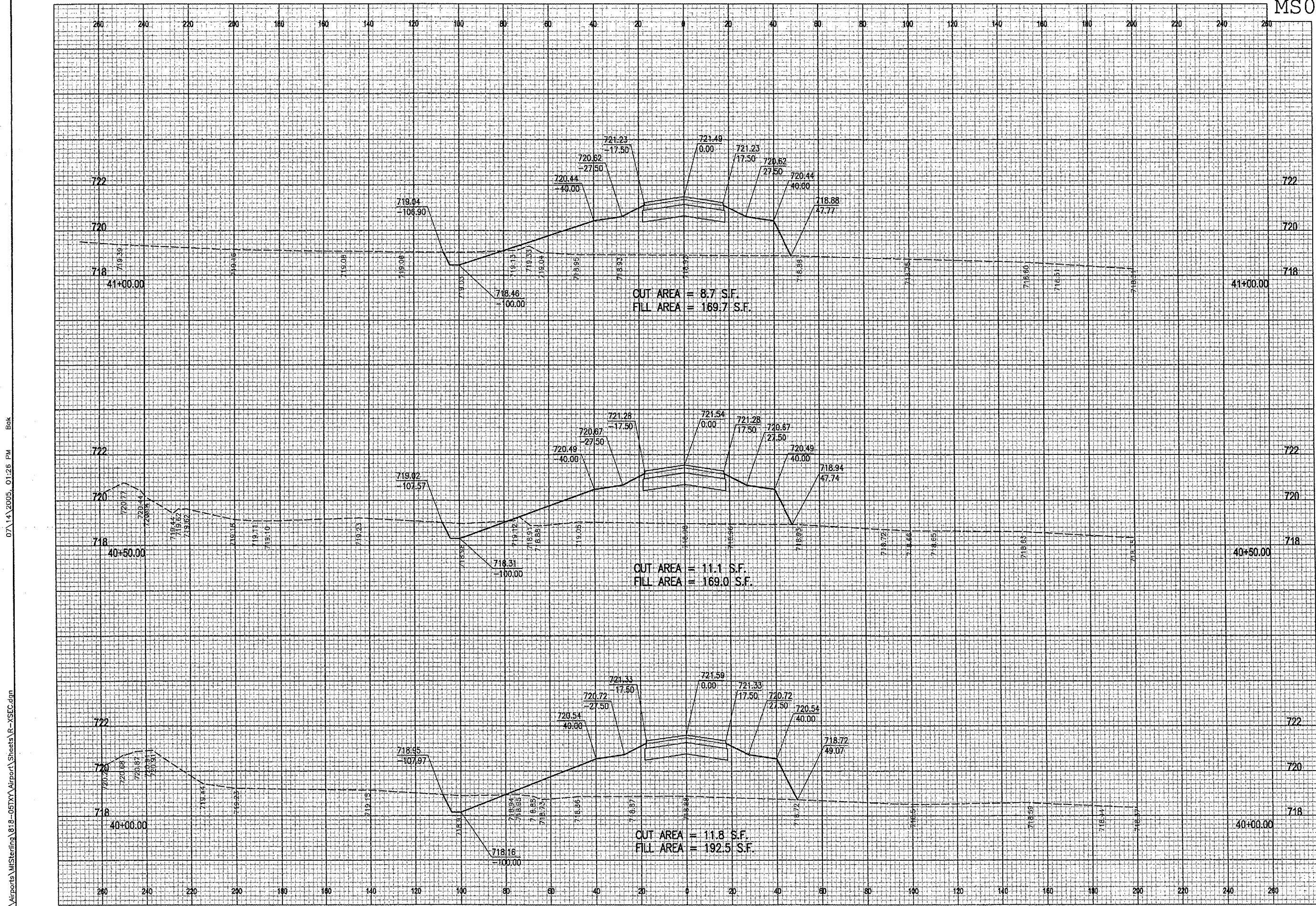
DATE	REVISION	BY

MT. STERLING MUNICIPAL AIRPORT
 MT. STERLING, ILLINOIS
 ILL. PROJ.: 163-3431 A.I.P. PROJ.: 3-17-04.17-B6

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Filename: R-XSEC.dgn	
Scale: \$SCALE\$	Date: 07/14/2005, 01:23 PM
LAYOUT JEO	03/14/05
DRAWN JEO	03/21/05
REVIEWED CAH	05/17/05



PROPOSED
 PARALLEL TAXIWAY
 TAXIWAY "B"
 CROSS SECTIONS
 STA. 38+50 TO STA. 39+50



MS002

07/14/2005 01:26 PM Bak

I:\Airports\MtSterling\818-05TX\Airport\Sheets\R-XSEC.dgn

DATE	REVISION	BY

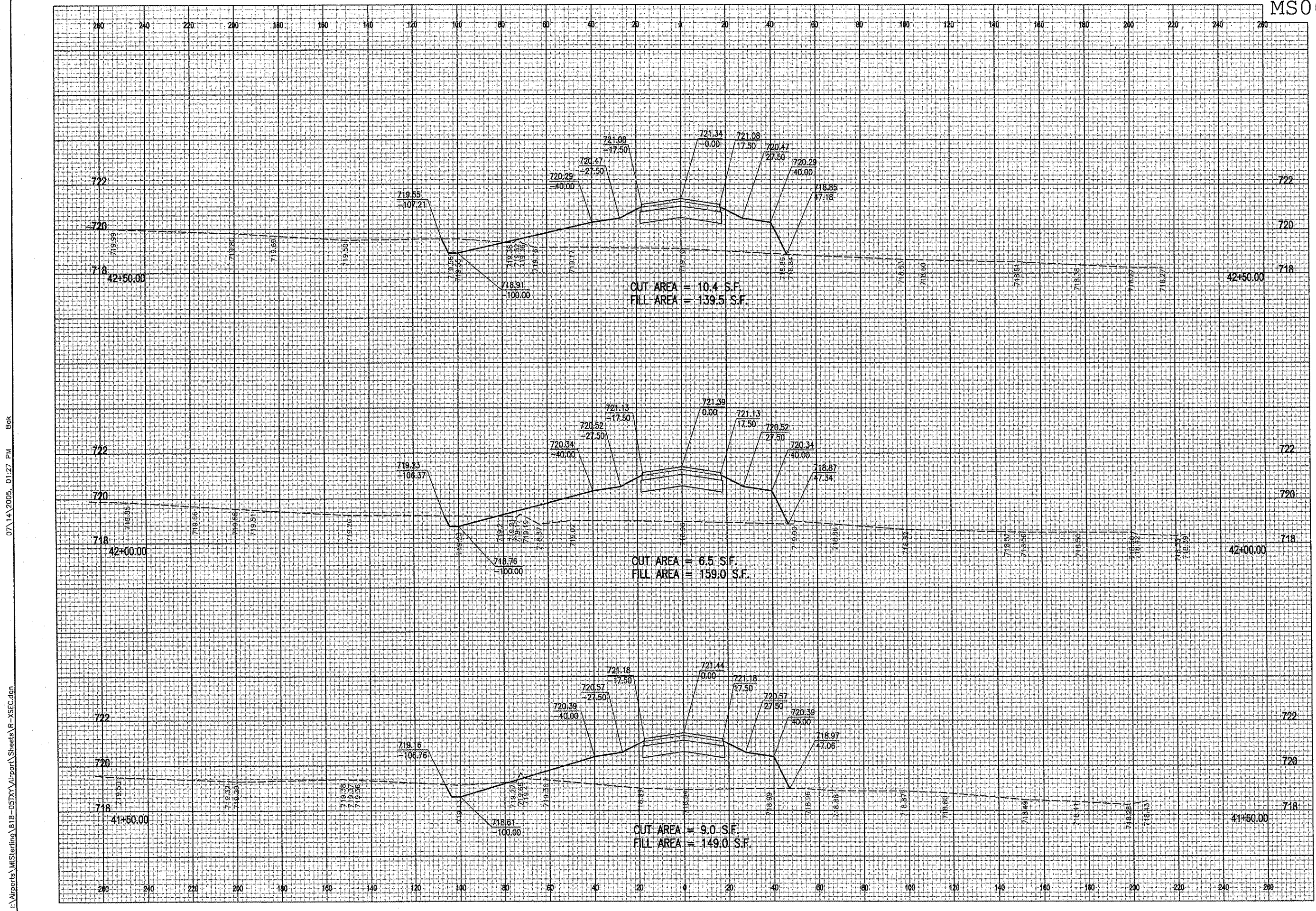
MT. STERLING MUNICIPAL AIRPORT
 MT. STERLING, ILLINOIS
 I.L. PROJ.: 163-3431 A.I.P. PROJ.: 3-17-0417-B6

HE Project No. 818-05TX
 Filename: R-XSEC.dgn
 Scale: \$SCALE\$
 Date: 07/14/2005 01:26 PM

LAYOUT	JFO	03/14/05
DRAWN	JFO	03/21/05
REVIEWED	CAH	05/17/05



PROPOSED
 CROSS SECTIONS
 STA. 40+00 TO STA. 41+00



MS002

07\14\2005, 01:27 PM Bok

I:\Airports\MtSterling\818-05TX\Airport\Sheets\R-XSEC.dgn

DATE	REVISION	BY

MT. STERLING MUNICIPAL AIRPORT

MT. STERLING, ILLINOIS

IL PROJ.: #63-3431 A.I.P. PROJ.: 3-17-0417-B6

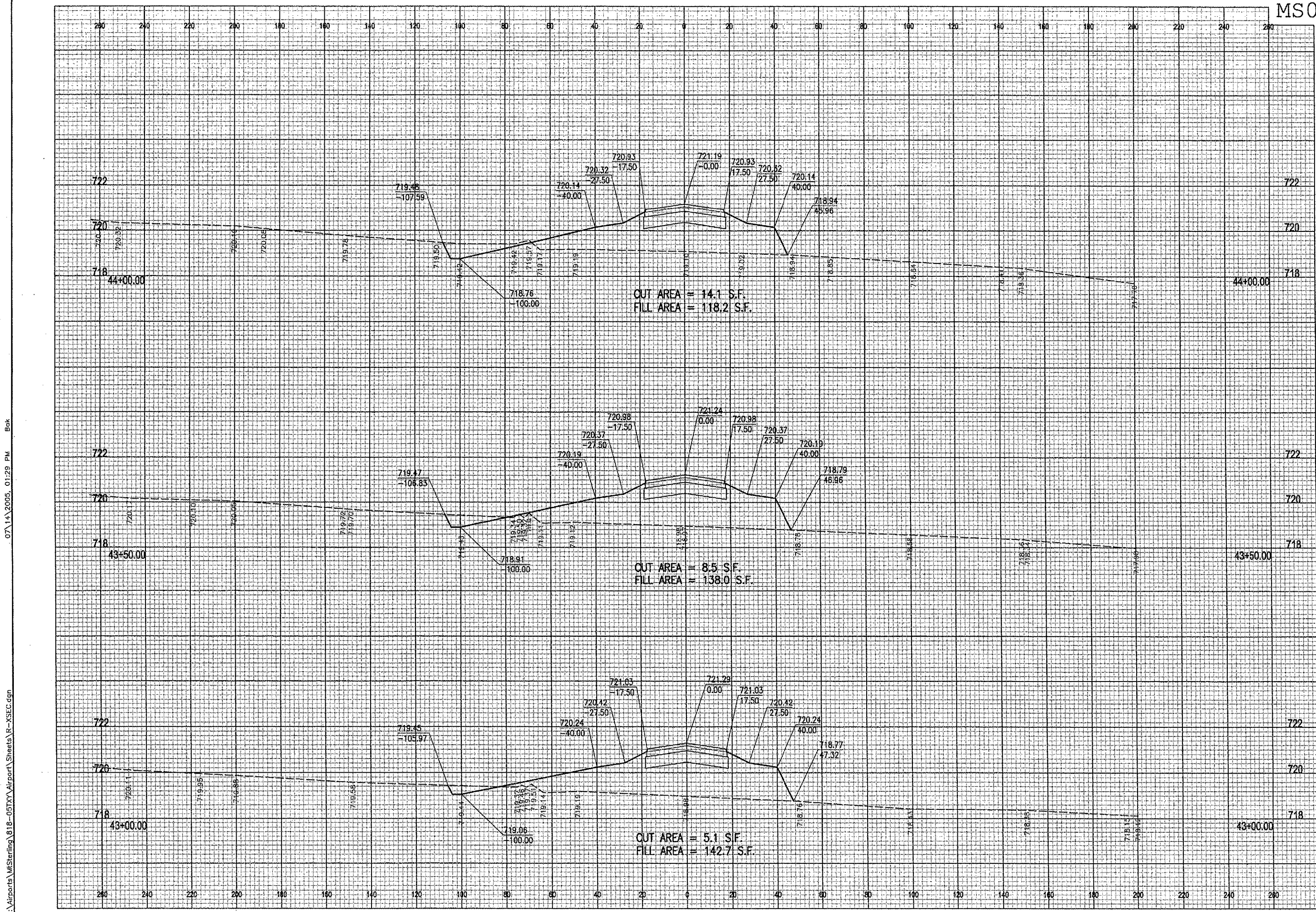
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 Date: 07/14/2005, 01:27 PM

LAYOUT	JFO	03/14/05
DRAWN	JFO	03/21/05
REVIEWED	CAH	05/17/05



Hanson Professional Services Inc.
 1526 South Sixth Street
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 Offices Nationwide

PROPOSED
 TAXIWAY "B"
 CROSS SECTIONS
 STA. 41+50 TO STA. 42+50



MS002

07\14\2005, 01:29 PM Bok

I:\Airports\MtSterling\818-05TX\Airport\Sheets\R-XSEC.dgn

DATE	REVISION	BY

MT. STERLING MUNICIPAL AIRPORT

MT. STERLING, ILLINOIS

IL PROJ.: 163-3431 A.I.P. PROJ.: 3-17-0417-B6

FILE: Project No. 818-05TX E:\818-05TX\R-XSEC.dgn	DATE: 07\14\2005, 01:29 PM
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	DRAWN: JEO 03/21/05
	REVIEWED: CAH 05/17/05

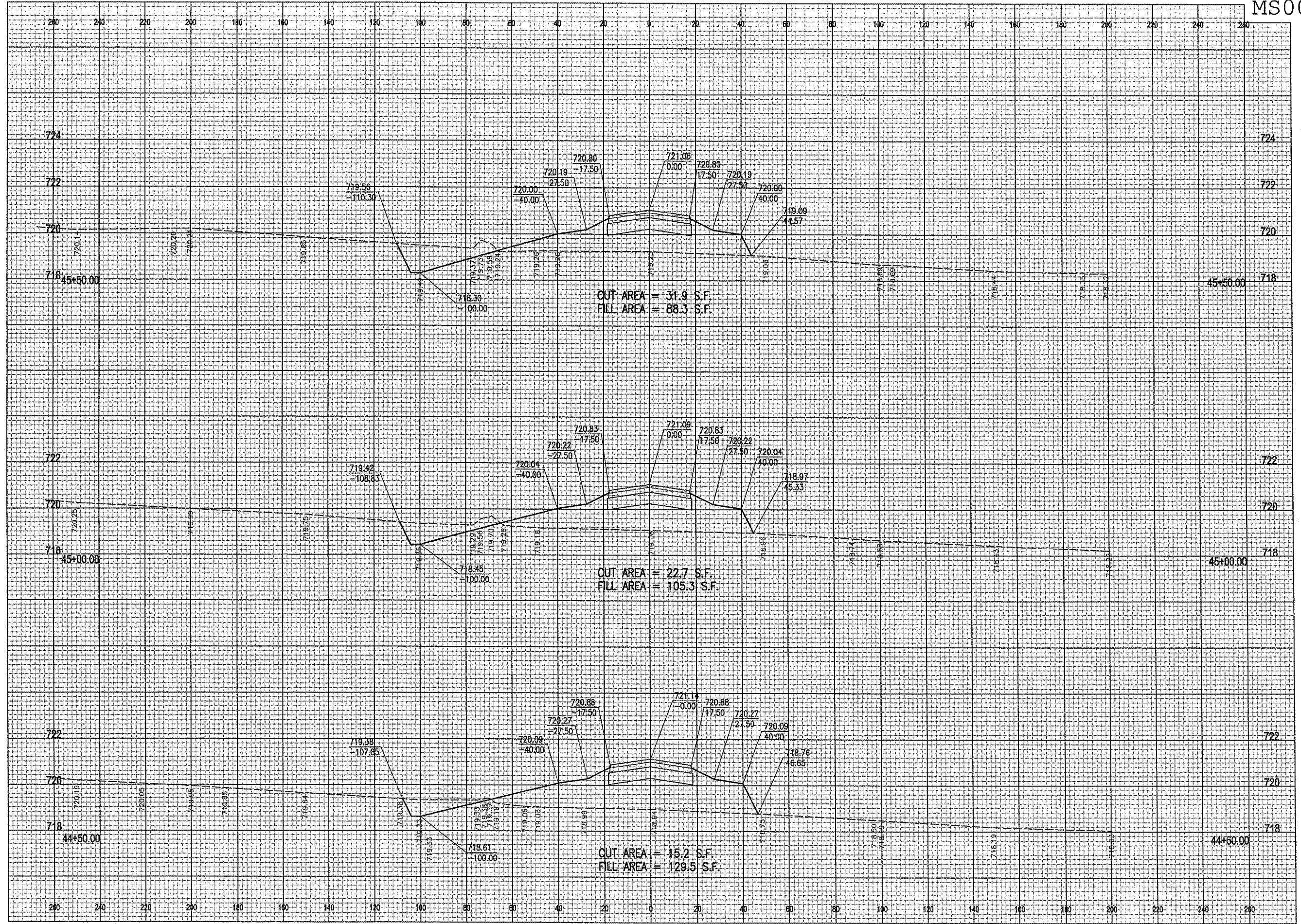


Hanson Professional Services Inc.
1525 South Sixth Street
Springfield, Illinois 62703-2886
Offices Nationwide

PROPOSED
PARALLEL TAXIWAY
TAXIWAY "B"

CROSS SECTIONS
STA. 43+00 TO STA. 44+00

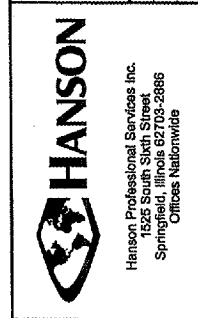
I:\Airports\MtSterling\818-05TXY\Airport\Sheets\R-XSEC.dgn 07/14/2005, 01:31 PM Buk



DATE	REVISION	BY

MT. STERLING MUNICIPAL AIRPORT
 MT. STERLING, ILLINOIS
 I.L. PROJ.: 163-3431 A.I.P. PROJ.: 3-17-0417-B6

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DRAWN	JEO 03/21/05
REVIEWED	CAH 05/17/05

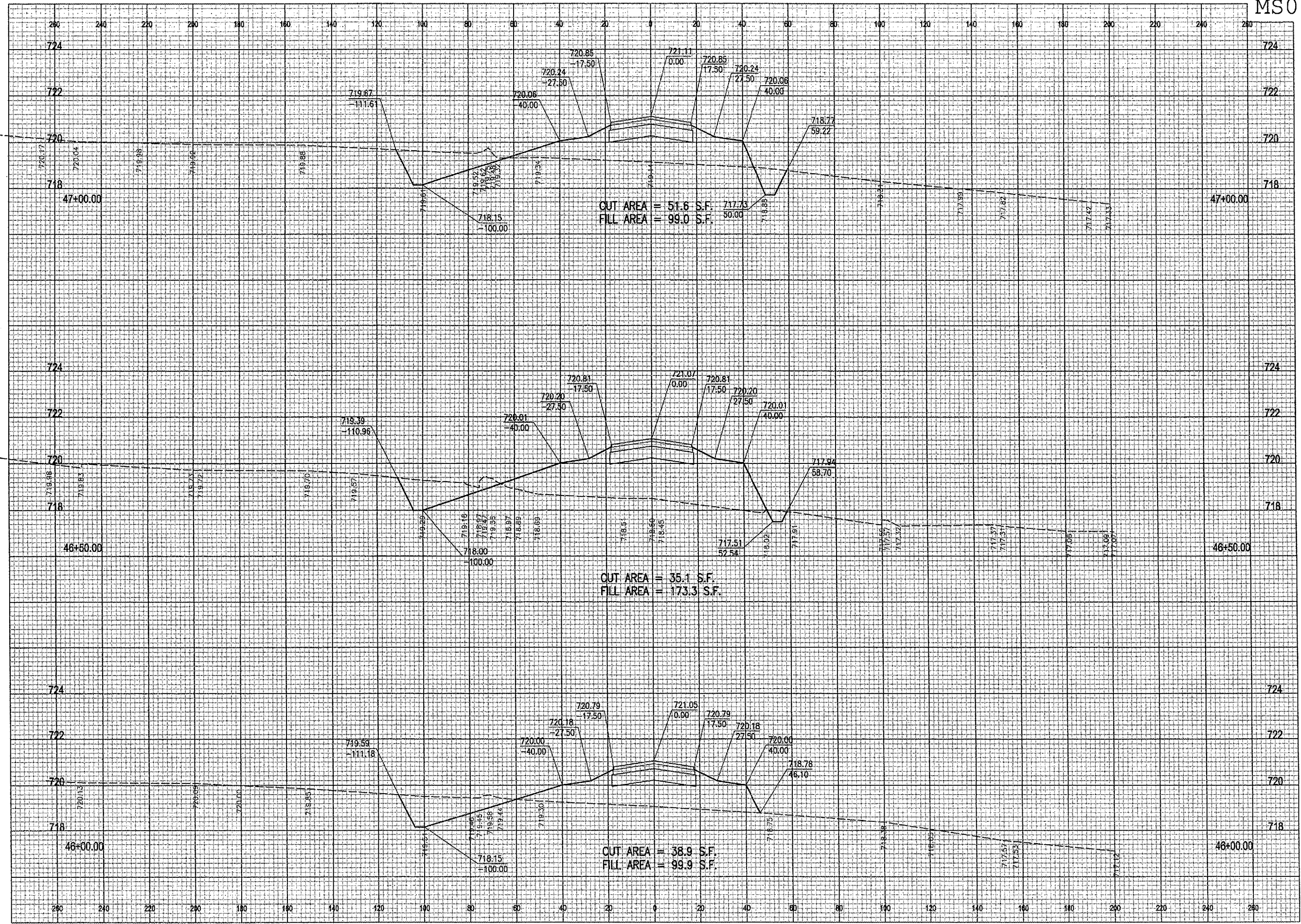


PROPOSED
 CROSS SECTIONS
 STA. 44+50 TO STA. 45+50

07/14/2005, 01:33 PM Bak

I:\Airports\MtSterling\B18-051X\Airport\Sheets\R-XSEC.dgn

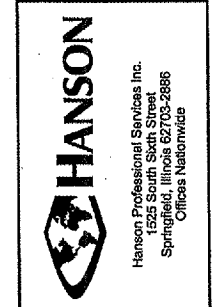
MS002



DATE	REVISION	BY

MT. STERLING MUNICIPAL AIRPORT
 MT. STERLING, ILLINOIS
 A.I.P. PROJ.: 163-3431 A.I.P. PROJ.: 3-17-0417-B6

HEI Project No. B18-051X	07/14/2005, 01:33 PM
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DRAWN JEO 03/21/05	
REVIEWED CAH 05/17/05	

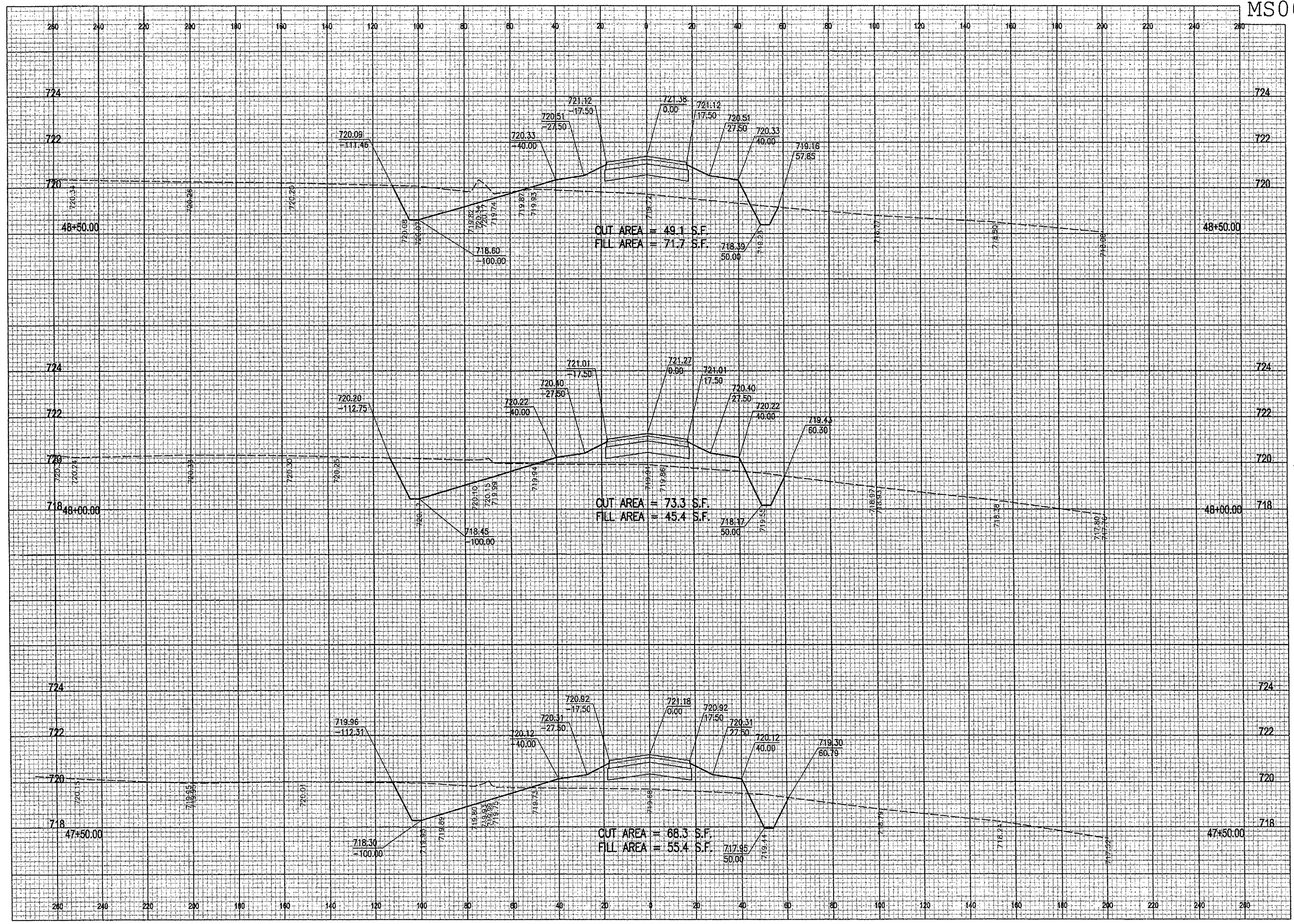


PROPOSED
 CROSS SECTIONS
 STA. 46+00 TO STA. 47+00

07\14\2005, 01:35 PM Bak

I:\Airports\MtSterling\818-05TX\Airport\Sheets\R-XSEC.dgn

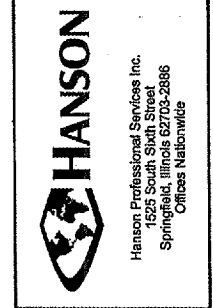
MS002



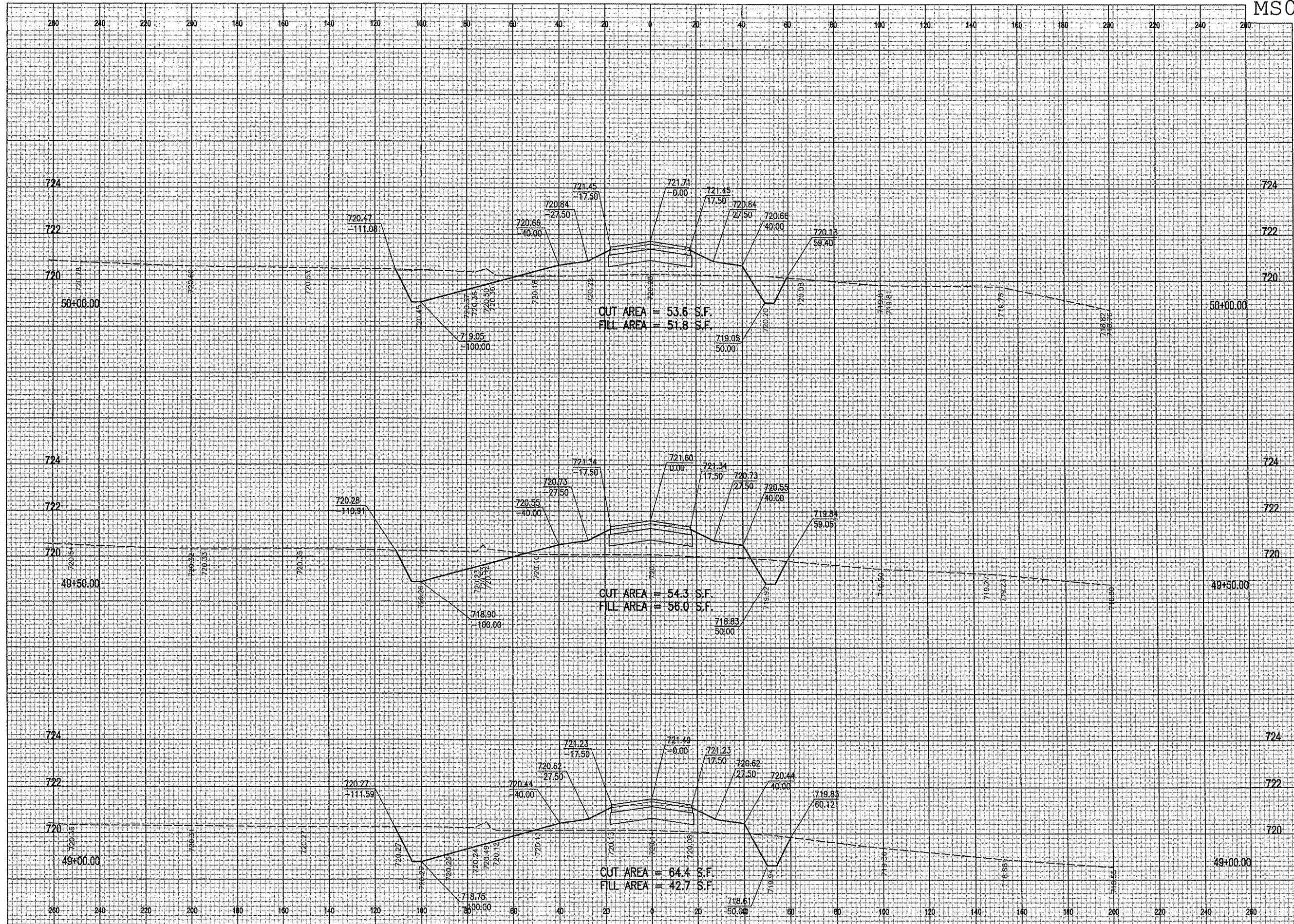
DATE	REVISION	BY

MT. STERLING MUNICIPAL AIRPORT
 MT. STERLING, ILLINOIS
 A.I.P. PROJ.: 163-3431
 I.L. PROJ.: 163-3431

IEL Project No. 818-05TX Elevation R-XSEC.dgn Scale: 1"=40' Date: 07/14/2005, 01:35 PM	
LAYOUT	JEO
DRAWN	JEO
REVIEWED	CAH



PROPOSED
 PARALLEL TAXIWAY
 TAXIWAY "B"
 CROSS SECTIONS
 STA. 47+50 TO STA. 48+50



DATE	REVISION	BY

MT. STERLING MUNICIPAL AIRPORT

MT. STERLING, ILLINOIS

IL PROJ.: 163-3431 A.I.P. PROJ.: 3-17-0417-B6

HEL Project No. 818-051XX
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 Date: 07\14\2005_01:35 PM

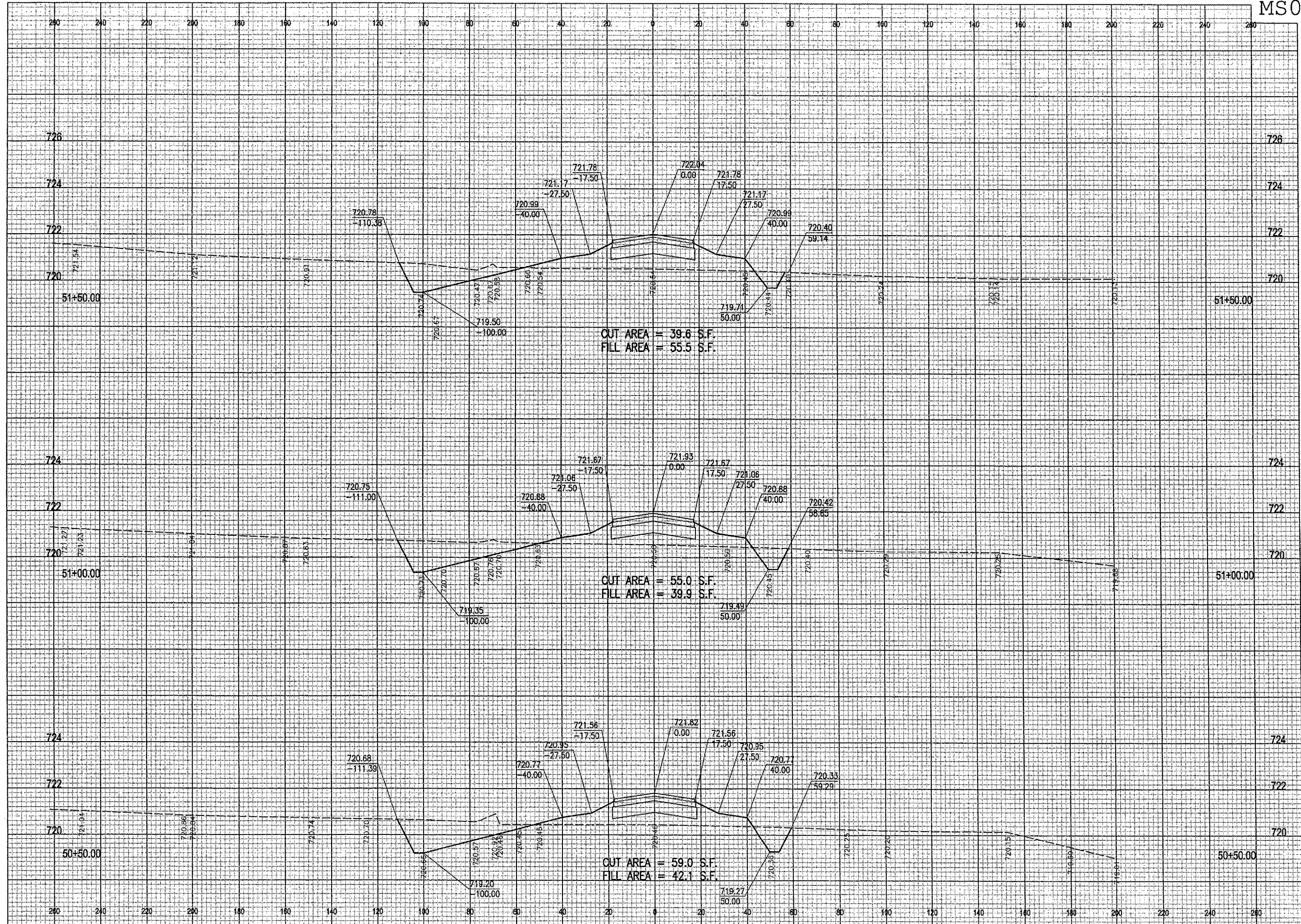
LAYOUT	JEO	03/14/05
DRAWN	JEO	03/21/05
REVIEWED	CAH	05/17/05



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PROPOSED
PARALLEL TAXIWAY
TAXIWAY "B"

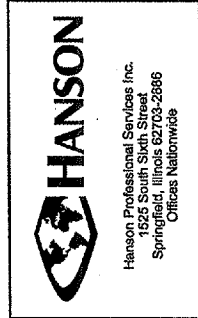
CROSS SECTIONS
STA. 49+00 TO STA. 50+00



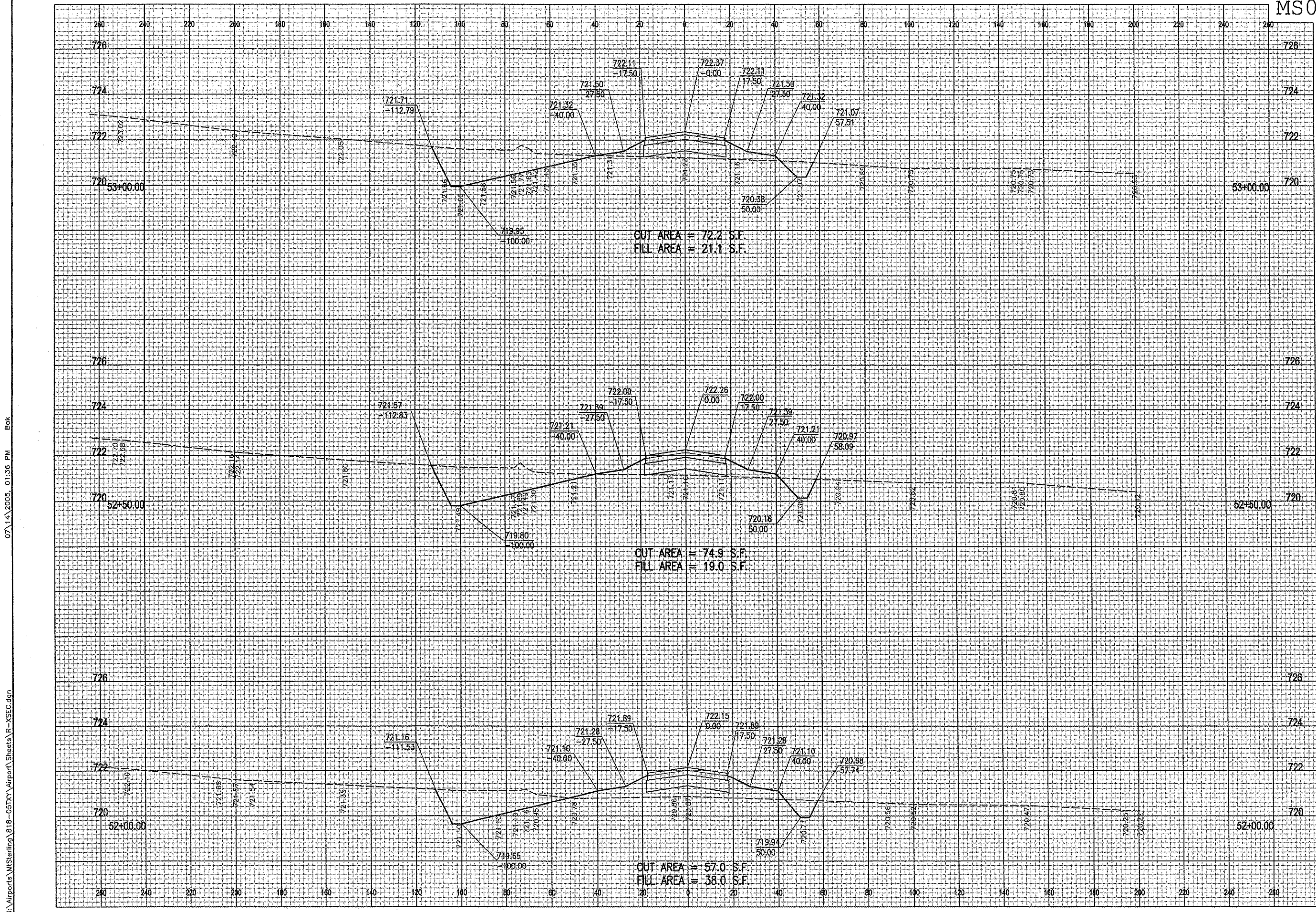
DATE	REVISION	BY

MT. STERLING MUNICIPAL AIRPORT
 MT. STERLING, ILLINOIS
 IL. PROJ.: I63-3431 A.I.P. PROJ.: 3-17-0417-B6

I.E. Project No. 818-051XY Filename: R-XSEC.dgn Scale: \$SCALES\$ Date: 07/14/2005, 01:36 PM	
LAYOUT	JEO 03/14/05
DRAWN	JEO 03/21/05
REVIEWED	CAH 05/17/05



PARALLEL TAXIWAY
 TAXIWAY "B"
 PROPOSED
 CROSS SECTIONS
 STA. 50+50 TO STA. 51+50



MS002

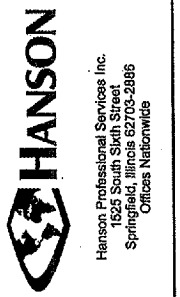
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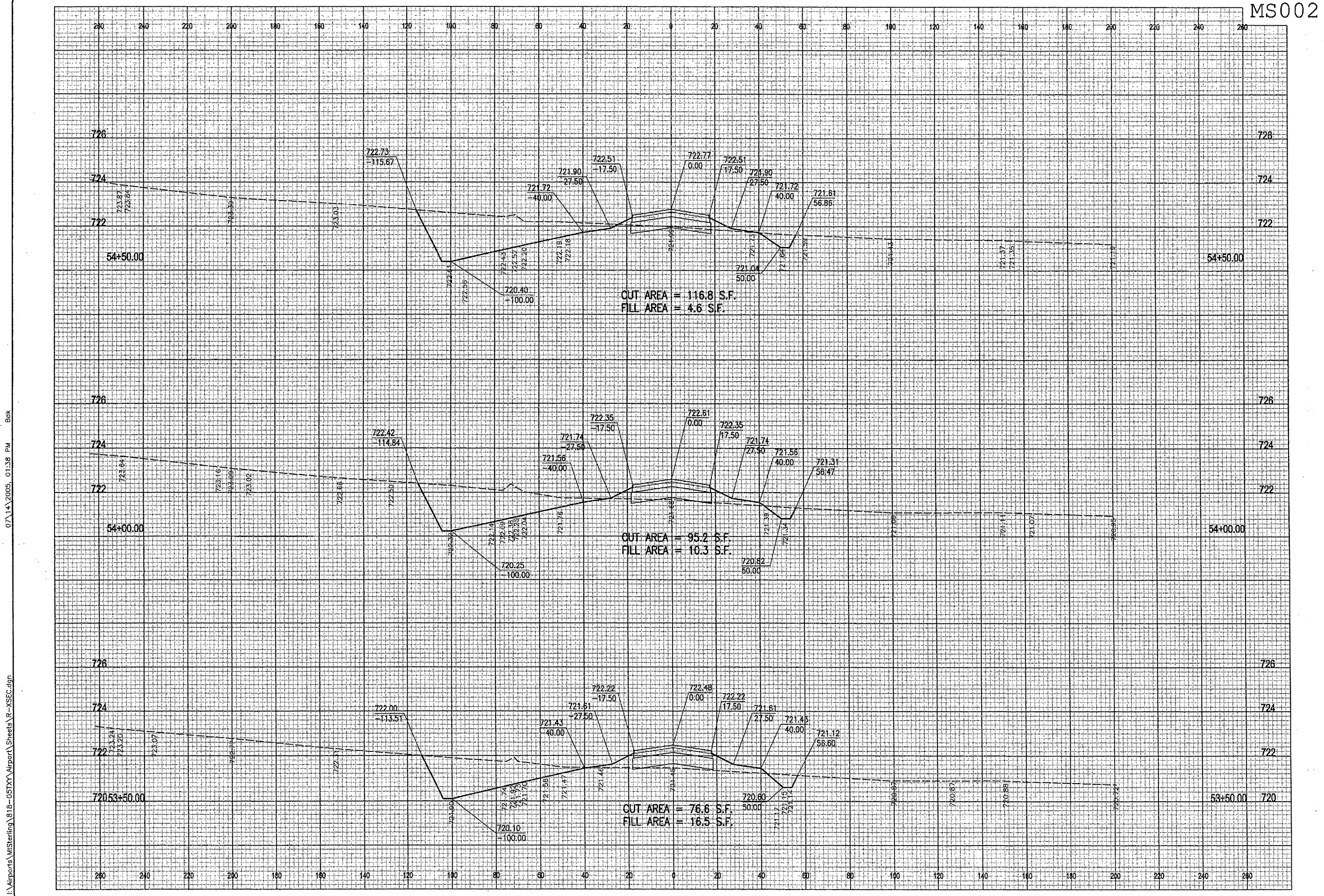
DATE	REVISION	BY

MT. STERLING MUNICIPAL AIRPORT
 MT. STERLING, ILLINOIS
 A.I.P. PROJ.: 163-3431 IL PROJ.: 3-17-0417-B6

HE Project No. 818-05TXY	
Elision R-XSEC.dgn	
Scale: \$SCALE\$	
Date: 07\14\2005 01:36 PM	
LAYOUT JEO	03/14/05
DRAWN JEO	03/21/05
REVIEWED CAH	05/17/05



PROPOSED
 TAXIWAY "B"
 CROSS SECTIONS
 STA. 52+00 TO STA. 53+00



MS002

07\14\2005, 01:38 PM Bok

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DATE	REVISION	BY

MT. STERLING MUNICIPAL AIRPORT

MT. STERLING, ILLINOIS

IL PROJ.: 163-3431 A.I.P. PROJ.: 3-17-0417-86

JHL Project No. 818-05TXY
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LAYOUT	JEO	03/14/05
DRAWN	JEO	03/21/05
REVIEWED	CAH	05/17/05

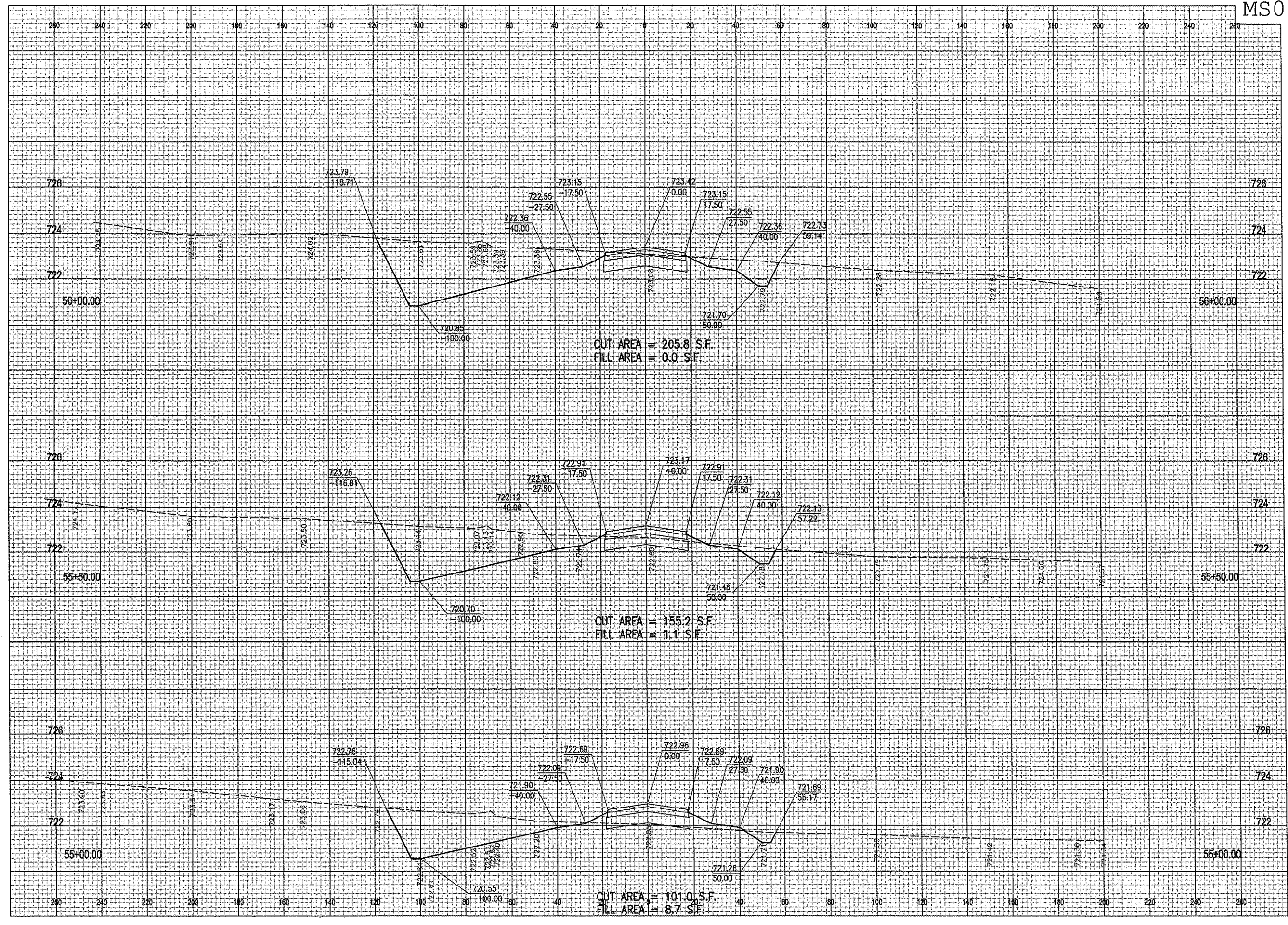


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PROPOSED
 CROSS SECTIONS
 STA. 53+50 TO STA. 54+50

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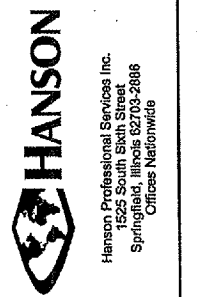
DATE	REVISION	BY

MT. STERLING MUNICIPAL AIRPORT

MT. STERLING, ILLINOIS

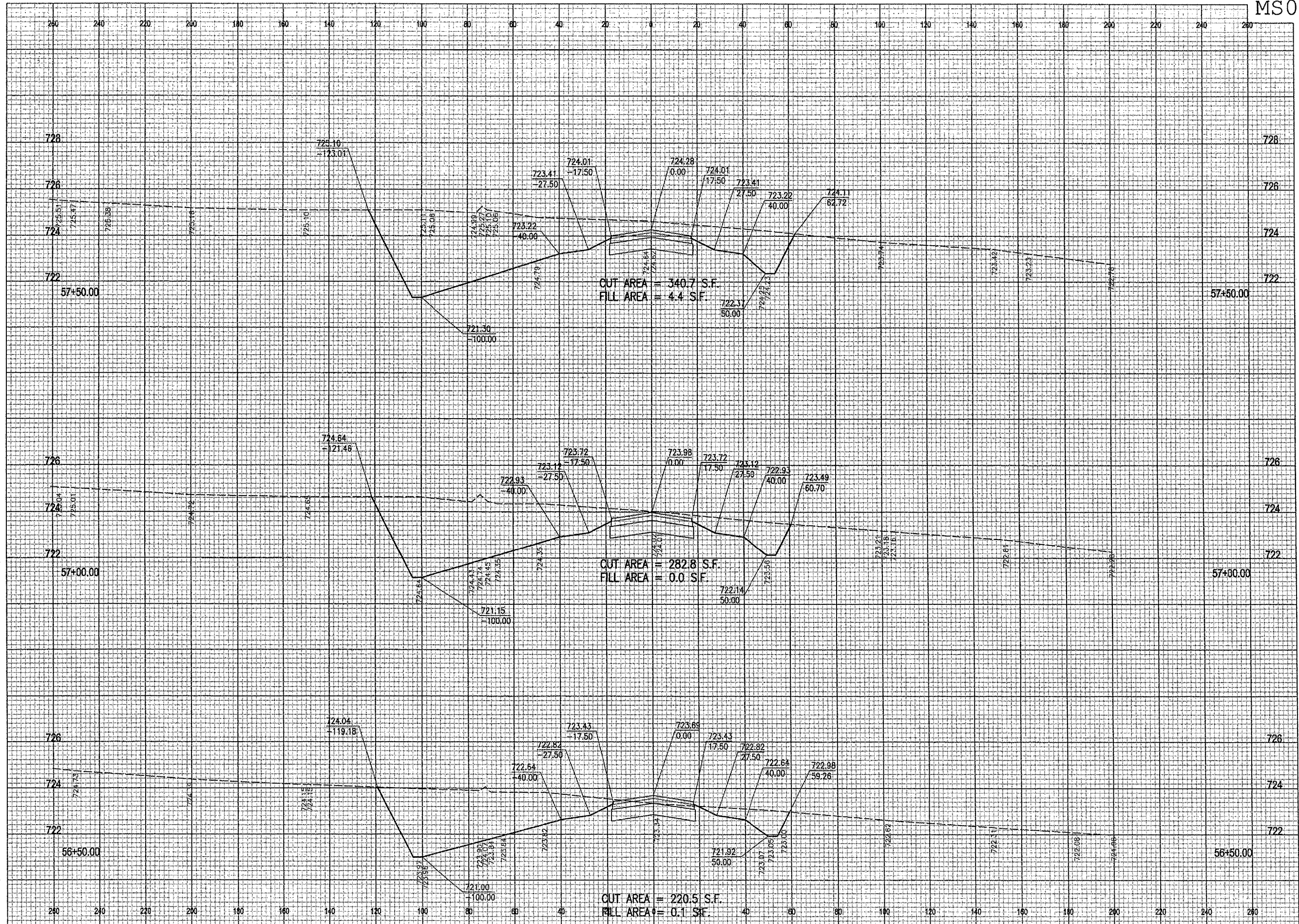
IL PROJ.: 163-3431 A.I.P. PROJ.: 3-17-0417-B6

PEL Project No. 818-05TX Filename: R-XSEC.dgn Scale: 1"=50' Date: 07\14\2005, 01:40 PM	LAYOUT JEO 03/14/05 DRAWN JEO 03/21/05 REVIEWED CAH 05/17/05
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PARALLEL TAXIWAY TAXIWAY "B"

PROPOSED CROSS SECTIONS STA. 55+00 TO STA. 56+00



DATE	REVISION	BY

MT. STERLING MUNICIPAL AIRPORT

MT. STERLING, ILLINOIS

IL PROJ.: 163-3431 A.I.P. PROJ.: 3-17-0417-B6

HEL Project No. 818-05TX
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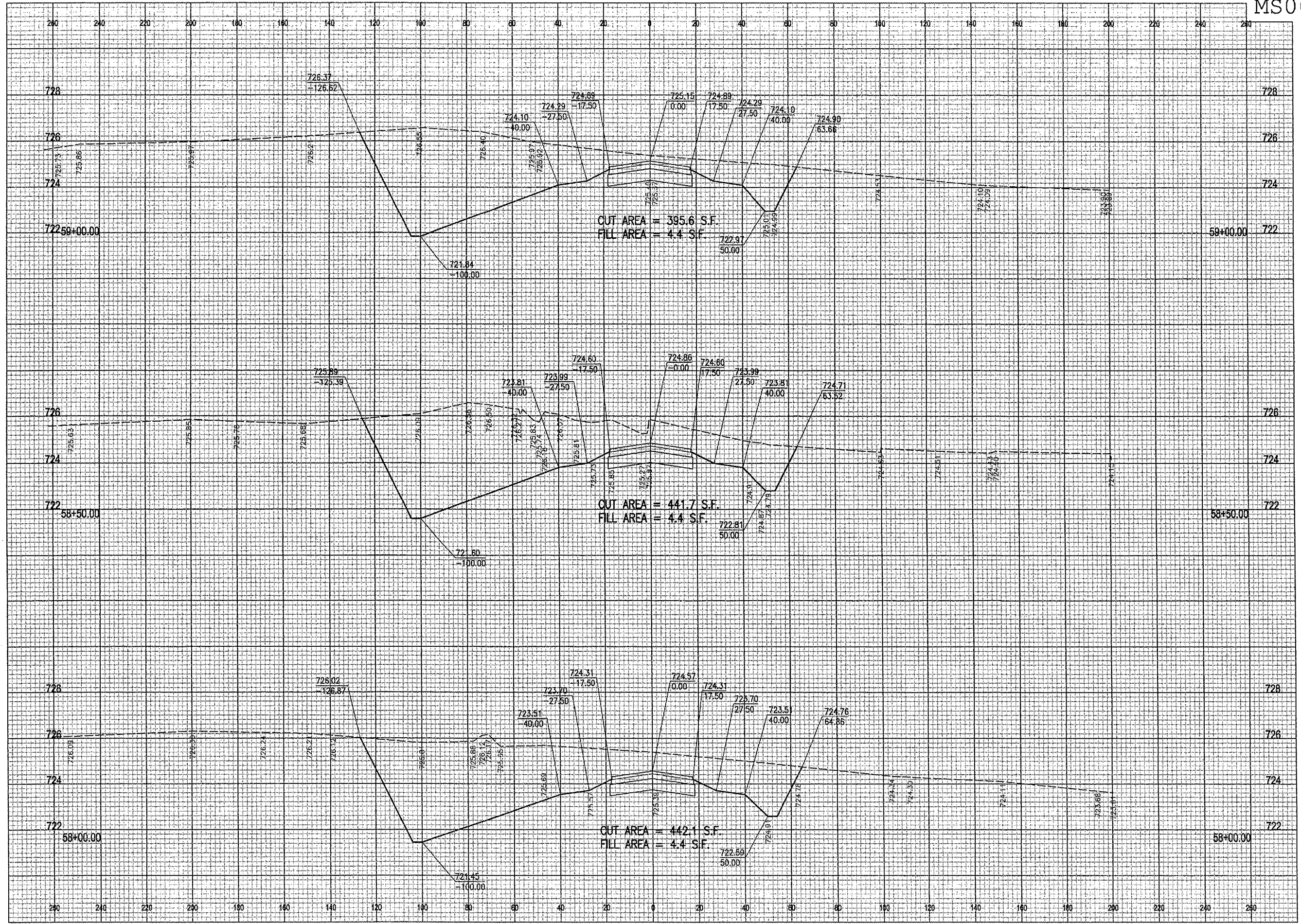
LAYOUT	JEO	03/14/05
DRAWN	JEO	03/21/05
REVIEWED	CAH	05/17/05



Hanson Professional Services Inc.
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PROPOSED
PARALLEL TAXIWAY
TAXIWAY "B"

CROSS SECTIONS
STA. 56+50 TO STA. 57+50



DATE	REVISION	BY

MT. STERLING MUNICIPAL AIRPORT
 MT. STERLING, ILLINOIS

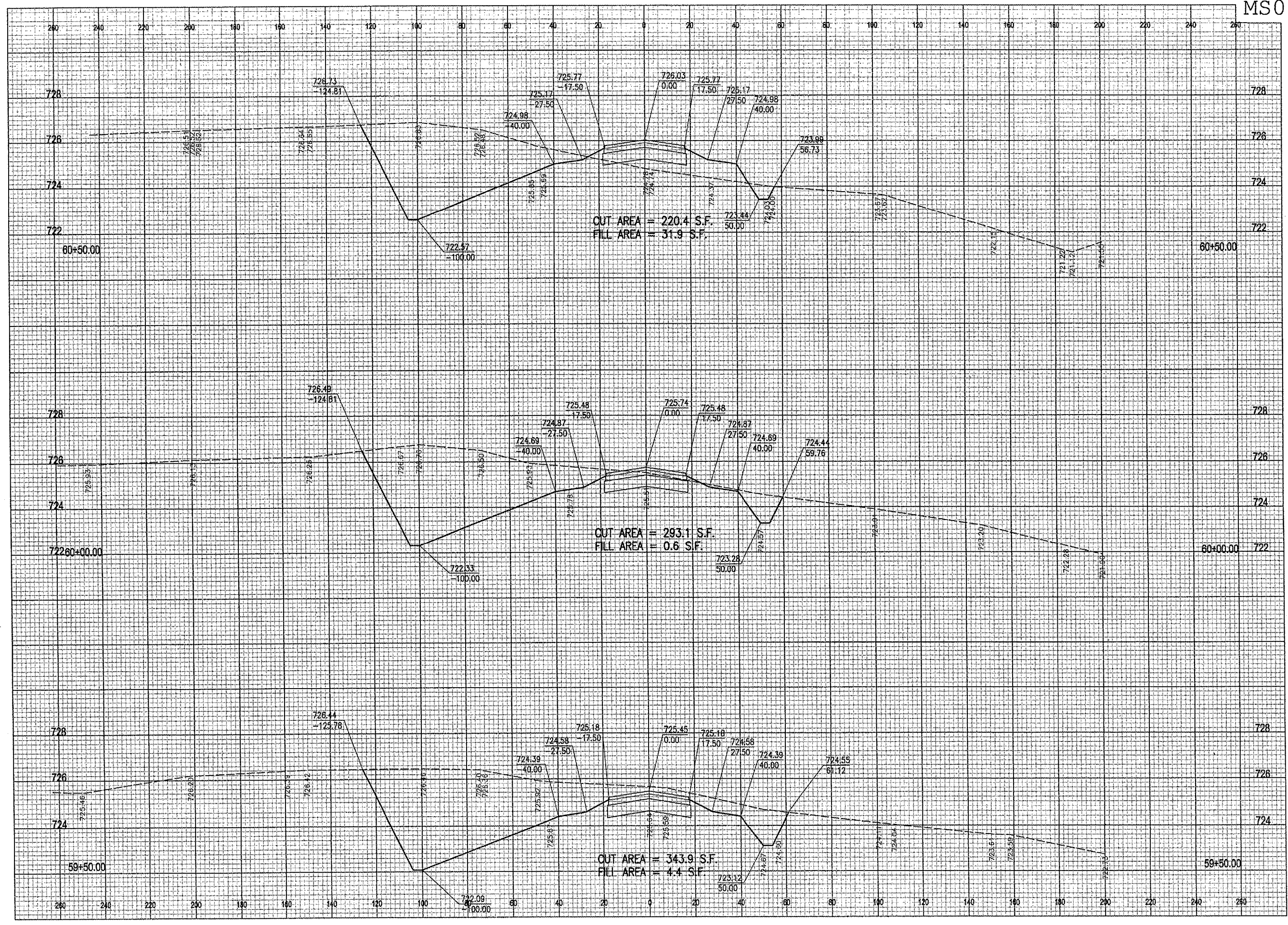
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LAYOUT	JEO 03/14/05
DRAWN	JEO 03/21/05
REVIEWED	CAH 05/17/05



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 Springfield, Illinois 62703-2686
 Chicago Nationwide

PROPOSED
 CROSS SECTIONS
 STA. 58+00 TO STA. 59+00



DATE	REVISION	BY

MT. STERLING MUNICIPAL AIRPORT

MT. STERLING, ILLINOIS

IL. PROJ.: 163-3431 A.I.P. PROJ.: 3-17-0417-B6

HEI Project No. B18-05TX	07\14\2005, 01:49 PM
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LAYOUT: JEO	03/14/05
DRAWN: JEO	03/21/05
REVIEWED: CH	05/17/05



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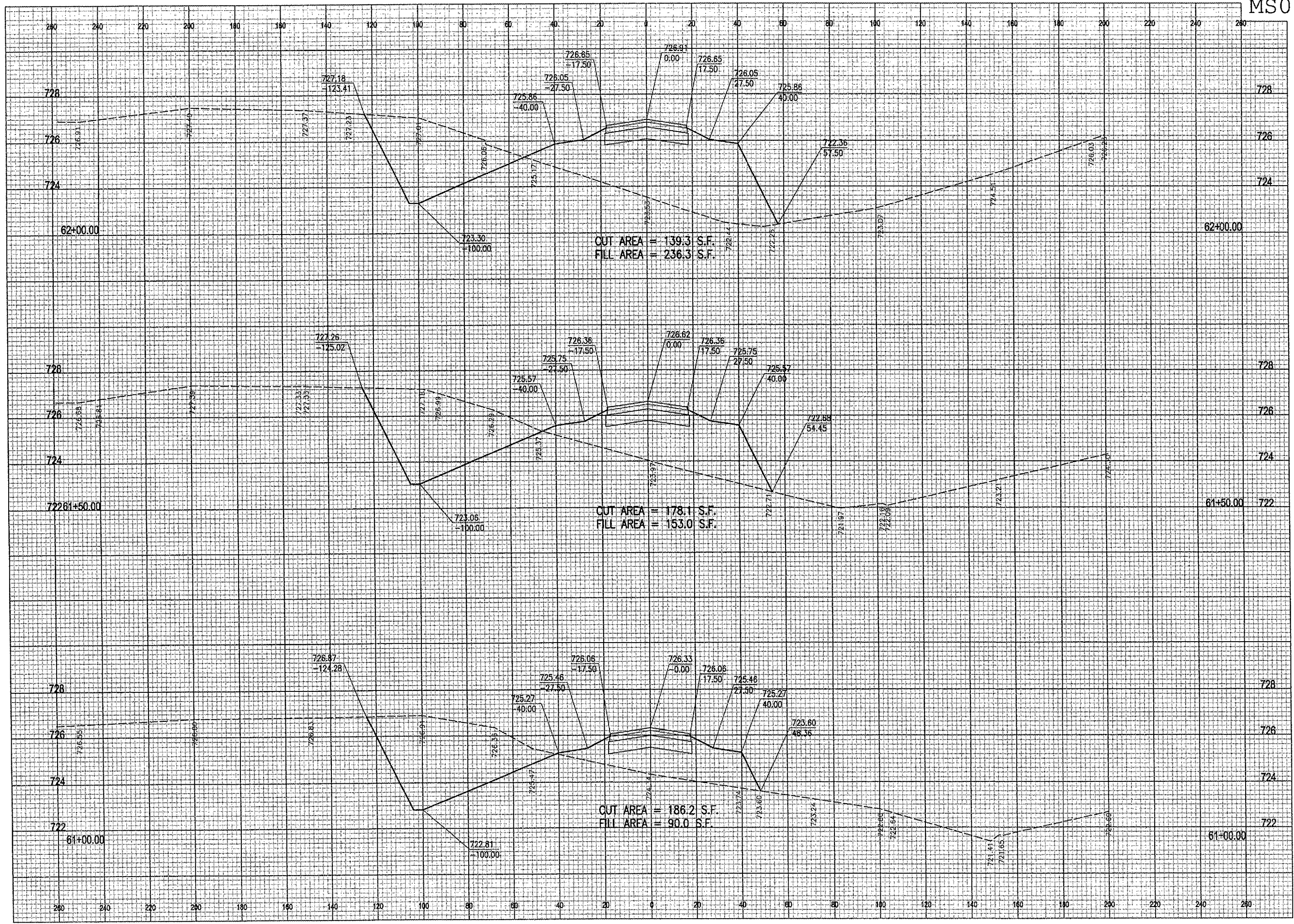
PARALLEL TAXIWAY
TAXIWAY "B"

PROPOSED
CROSS SECTIONS
STA. 59+50 TO STA. 60+50

07/14/2005, 01:54 PM Bak

I:\Airports\MtSterling\818-051XY\Airport\Sheets\R-XSEC.dgn

MS002



DATE	REVISION	BY

MT. STERLING MUNICIPAL AIRPORT

MT. STERLING, ILLINOIS

A.I.P. PROJ.: 163-3431 I.L. PROJ.: 3-17-0417-B6

H&E Project No. 818-051XY
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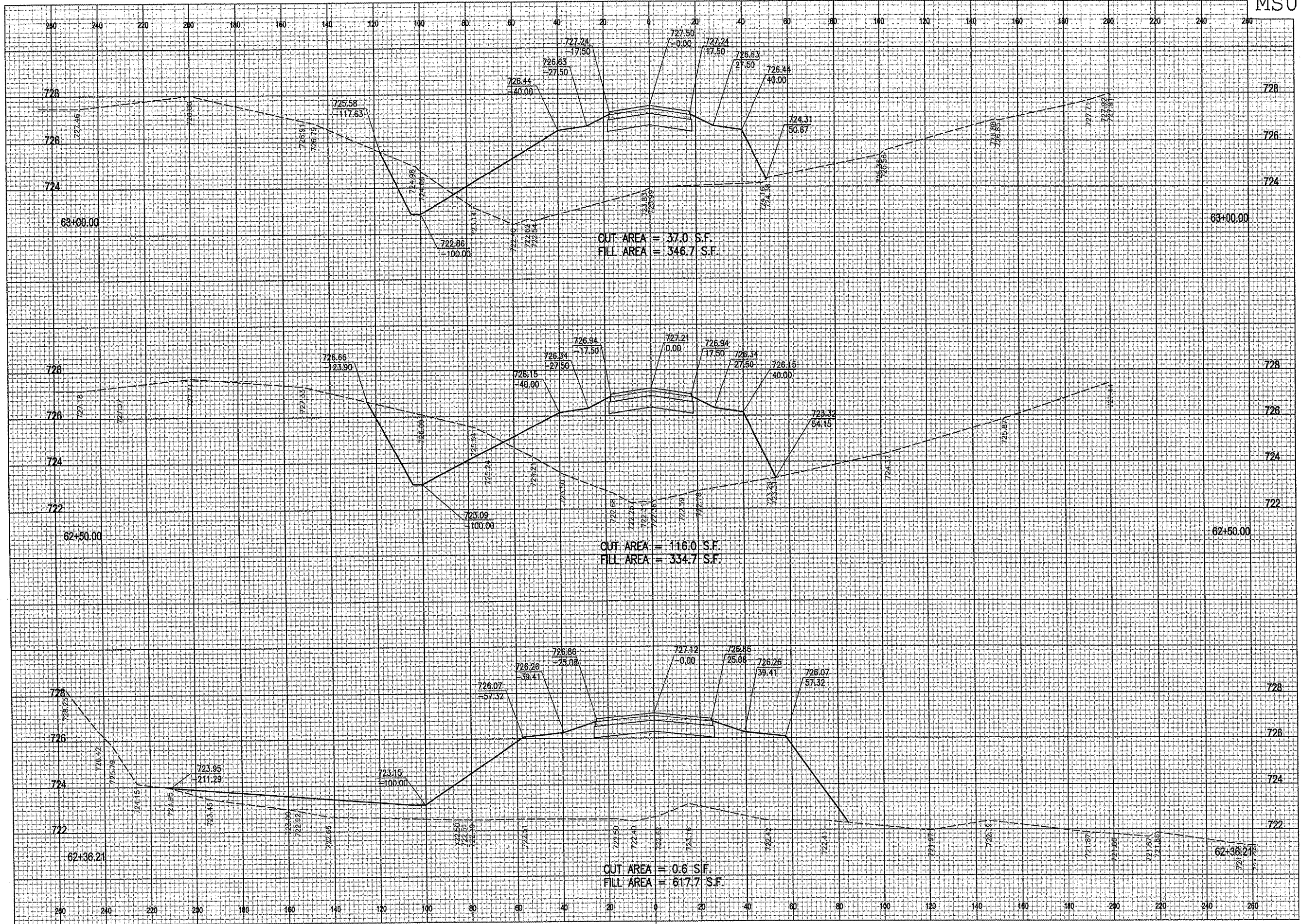
LAYOUT	JEO	03/14/05
DRAWN	JEO	03/21/05
REVIEWED	CAH	05/17/05



Hanson Professional Services Inc.
 1525 South Sixth Street
 Springfield, Illinois 62703-2886
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PROPOSED
PARALLEL TAXIWAY
TAXIWAY "B"

CROSS SECTIONS
STA. 61+00 TO STA. 62+00



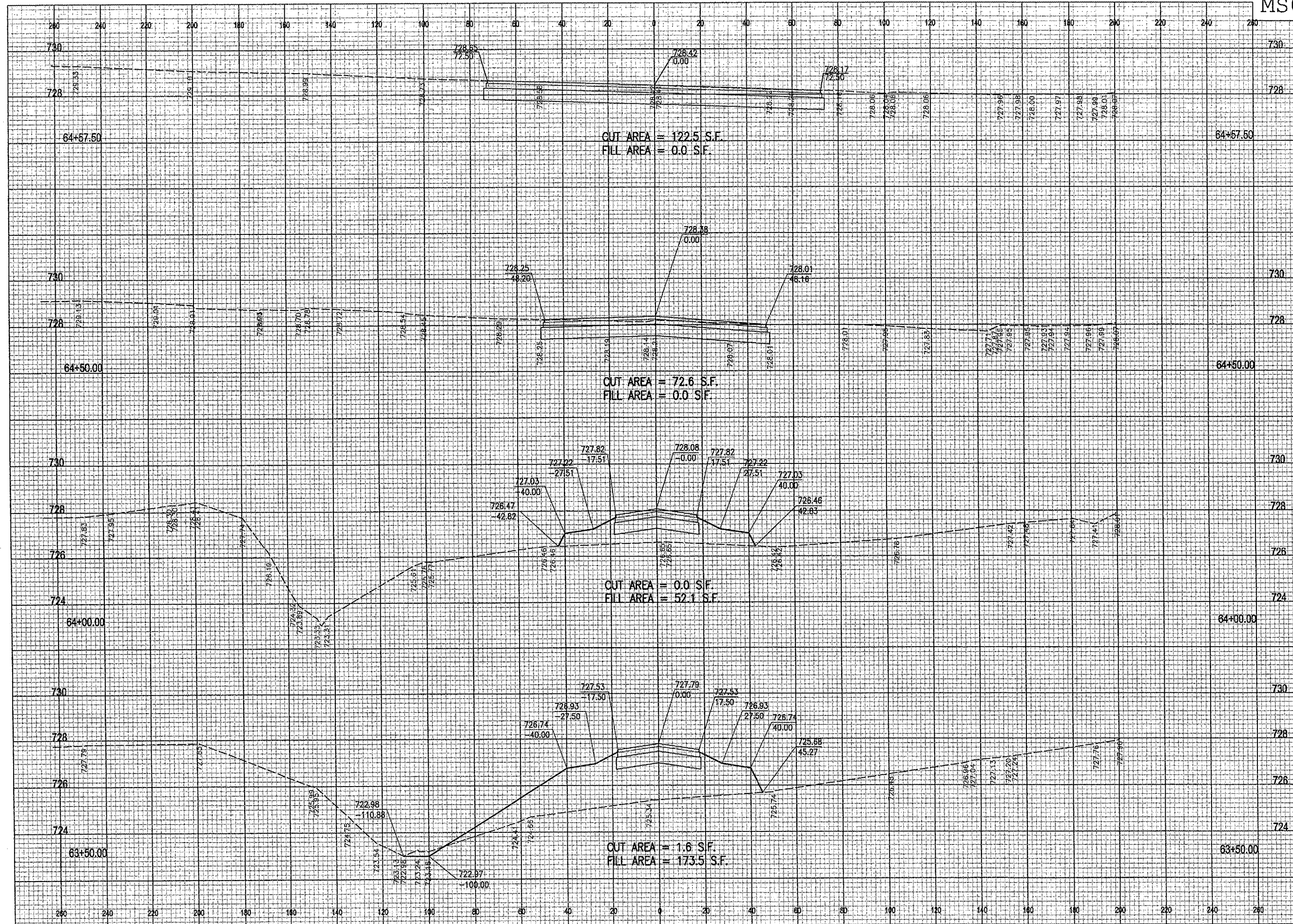
DATE	REVISION	BY

MT. STERLING MUNICIPAL AIRPORT
 MT. STERLING, ILLINOIS
 A.I.P. PROJ.: 163-3431 I.L. PROJ.: 3-17-04-17-86

H.E. Project No. B1B-05TXY	
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Date	07/14/2005, 02:56 PM
LAYOUT	JED 03/14/05
DRAWN	JED 03/21/05
REVIEWED	CAH 05/17/05



PROPOSED
 CROSS SECTIONS
 STA. 62+36.21 TO STA. 63+00



DATE	REVISION	BY

MT. STERLING MUNICIPAL AIRPORT
 MT. STERLING, ILLINOIS
 I.L. PROJ.: 063-3431 A.I.P. PROJ.: 3-17-0417-B6

HEI Project No. 818-05TAXY	
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DRAWN JEO	03/21/05
REVIEWED CAH	05/17/05

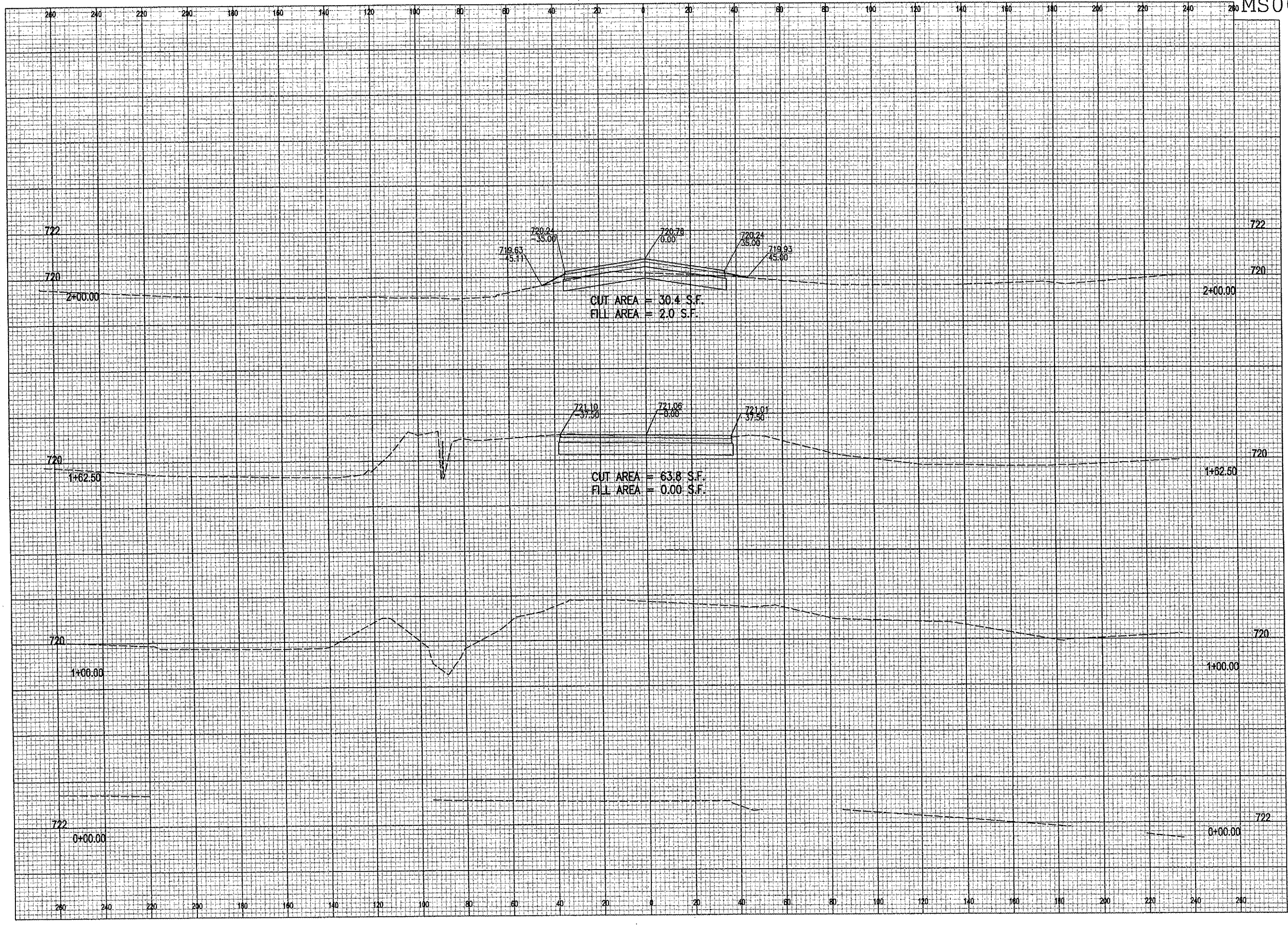


PROPOSED
 CROSS SECTIONS
 STA. 63+50 TO STA. 64+50

07/14/2005, 02:58 PM Bok

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MS002



REVISION	DATE	BY

MT. STERLING MUNICIPAL AIRPORT
 MT. STERLING, ILLINOIS
 I.L. PROJ.: 163-3431 A.I.P. PROJ.: 3-17-0417-B6

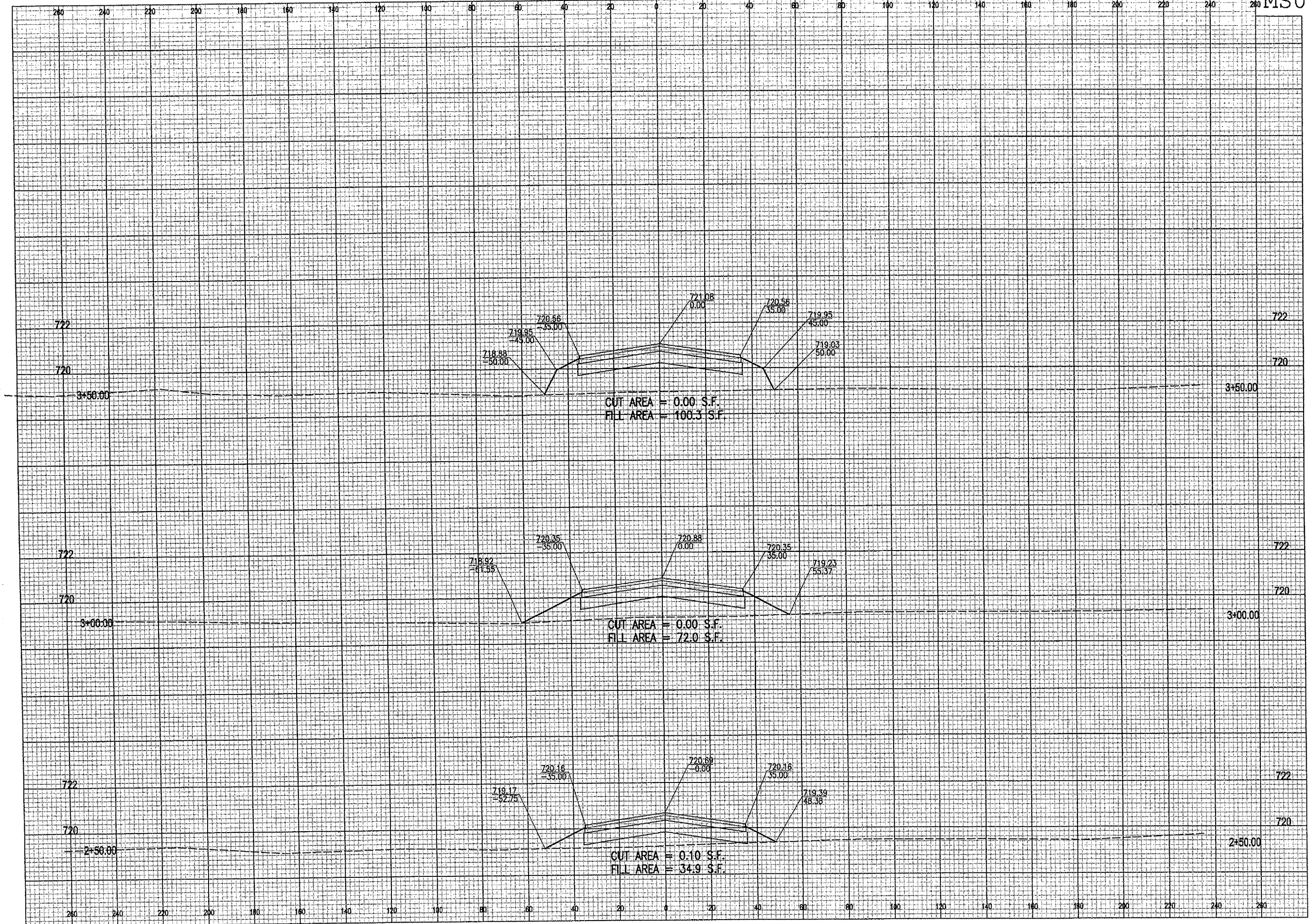
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LAYOUT JFO 03/14/05	DRAWN JFO 03/21/05
REVIEWED CAH 05/17/05	



PARALLEL TAXIWAY
 TAXIWAY "B2"
 PROPOSED
 CROSS SECTIONS
 STA. 0+00 TO STA. 2+00

07\14\2005_03:00_P.M. Bok

I:\Airports\MtSterling\818-05TX\Airport\Sheets\R-XSEC2.dgn



REVISION	DATE

MT. STERLING MUNICIPAL AIRPORT
 MT. STERLING, ILLINOIS
 ILL. PROJ.: 163-3431 A.I.P. PROJ.: 3-17-0417-B6

HEL. Project No. 818-05TX	FILENAME: R-XSEC2.dgn
Scale: \$SCALE\$	Date: 07\14\2005_03:00_P.M.
LAYOUT	JEO 03/14/05
DRAWN	JEO 03/21/05
REVIEWED	CAH 05/17/05



PARALLEL TAXIWAY
 TAXIWAY "B2"
 PROPOSED
 CROSS SECTIONS
 STA. 2+50 TO STA. 3+50