


CONSTRUCTION PLANS FOR CENTRAL ILLINOIS REGIONAL AIRPORT

BLOOMINGTON-NORMAL AIRPORT AUTHORITY
BLOOMINGTON, ILLINOIS

ILLINOIS PROJECT BMI-3452
A. I. P. PROJECT 3-17-0006-XX

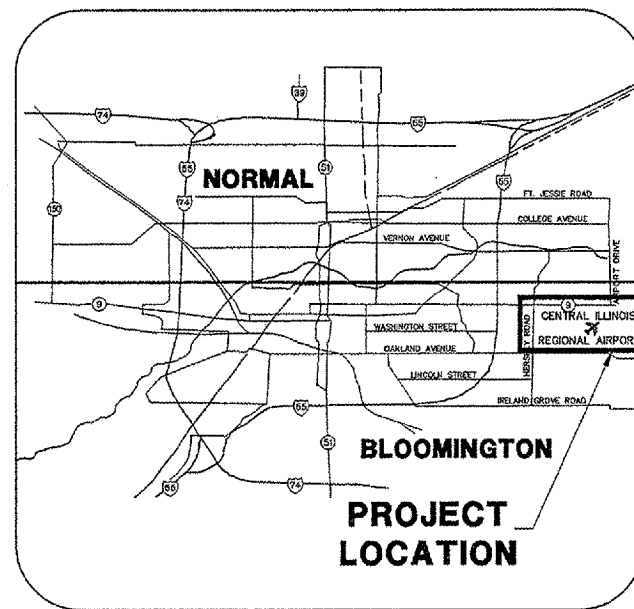
CONSTRUCT NEW TAXIWAY G-1

DATE: 1-13-06

Expires: 11-30-07

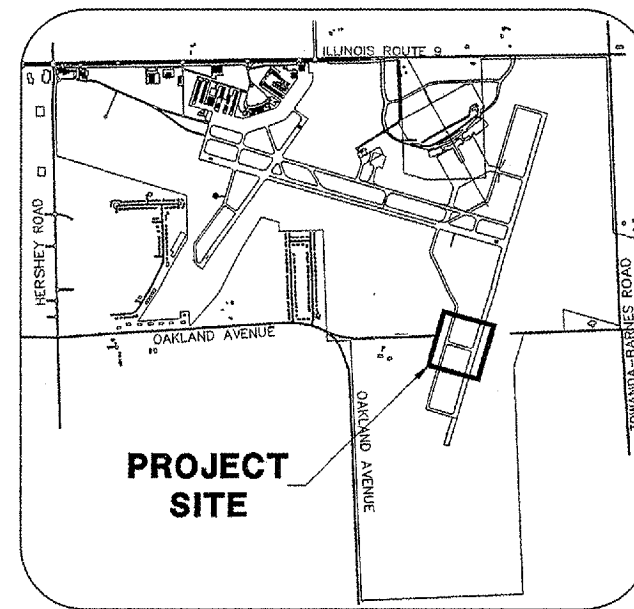
DATE: 1-13-06

Expires: 11-30-07

JANUARY 13, 2006




LOCATION MAP




SITE PLAN

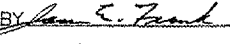
DESIGN INFORMATION
<p>GEOMETRIC CRITERIA AIRPLANE DESIGN GROUP IV AIRCRAFT APPROACH CATEGORY D</p>
<p>PAVEMENT DESIGN CRITERIA BOEING B-767 DEPARTURE WEIGHT = 300,000 LBS. 3308 EQUIV. ANNUAL DEPARTURES</p>
<p>TRAFFIC ALLOCATION RWY. 2/20 - 2481 EQUIV. ANNUAL DEPARTURES TXY. F,G & CONNECTORS (EAST OF AIR CARGO APRON) - 2481 EQUIV. ANNUAL DEPARTURES</p>
<p>CALL J.U.L.I.E. BEFORE EXCAVATING 1-800-892-0123</p>
<p>TOWNSHIP: 23 NORTH RANGE: 3 EAST OF THE 4TH P.M. SECTION: 6 & 7 COUNTY: McLEAN CIVIL TOWNSHIP: OLD TOWN</p>
<p>TOWNSHIP: 23 NORTH RANGE: 2 EAST OF THE 4TH P.M. SECTION: 1 COUNTY: McLEAN CIVIL TOWNSHIP: BLOOMINGTON</p>

BLOOMINGTON-NORMAL AIRPORT AUTHORITY
CENTRAL ILLINOIS REGIONAL AIRPORT
BLOOMINGTON, ILLINOIS

APPROVED 
EXECUTIVE DIRECTOR OF AVIATION

DATE 1-5-06

 **CMT**
CRAWFORD MURPHY & TILLY, INC.
CONSULTING ENGINEERS
■ SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO

SUBMITTED BY 
DATE 1-13-06

CMT JOB NUMBER 05085-03-00

BL059

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 UPDATE BY: jfrank
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REVISIONS

NUMBER	BY	DATE

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 THIS BAR IS EQUAL TO 2"
 AT FULL SCALE (34X22).

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32	TAXIWAY G-1 CROSS SECTIONS STA. 20+37.95 TO STA. 22+50
33	TAXIWAY G-1 CROSS SECTIONS STA. 23+00 TO STA. 25+50

SUMMARY OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
AR107408	L-806 WIND CONE -8' LIGHTED	EA	4
AR108051	POWER CABLE IN UNIT DUCT	LF	2330
AR108108	1/C #8 5 KV UG CABLE	LF	1600
AR108158	1/C #8 5 KV UG CABLE IN UD	LF	1000
AR110504	4-WAY CONCRETE ENCASED DUCT	LF	200
AR800312	2" HDPE, DIRECT BURY	LF	1600
AR125415	MITL - BASE MOUNTED	EA	32
AR125441	TAXI GUIDANCE SIGN 1 CHARACTER	EA	1
AR125442	TAXI GUIDANCE SIGN 2 CHARACTER	EA	1
AR125443	TAXI GUIDANCE SIGN 3 CHARACTER	EA	3
AR125445	TAXI GUIDANCE SIGN 5 CHARACTER	EA	1
AR125446	TAXI GUIDANCE SIGN 6 CHARACTER	EA	1
AR125470	MODIFY EXISTING SIGN PANEL	EA	4
AR125525	HURL, INPAVEMENT	EA	1
AR125565	SPLICE CAN	EA	2
AR125902	REMOVE BASE MOUNTED LIGHT	EA	5
AR125906	REMOVE SPLICE CAN	EA	1
AR150510	ENGINEER'S FIELD OFFICE	LS	1
AR152455	EMBANKMENT IN PLACE	CY	2500
AR156510	SILT FENCE	LF	1000
AR201504	BITUMINOUS BASE COURSE - 4"	SY	13100
AR201630	BITUMINOUS BASE TEST SECTION	EA	1
AR209604	CRUSHED AGG. BASE COURSE - 4"	SY	4400
AR401900	REMOVE BITUMINOUS PAVEMENT	SY	3100
AR501512	12" PCC PAVEMENT	SY	8650
AR501530	PCC TEST BATCH	EA	1
AR602510	BITUMINOUS PRIME COAT	GAL	3440
AR603510	BITUMINOUS TACK COAT	GAL	1375
AR620520	PAVEMENT MARKING WATER BORNE	SF	12000
AR620900	PAVEMENT MARKING REMOVAL	SF	2050
AR705524	4" PERFORATED UNDERDRAIN WITH SOCK	LF	1525
AR705640	UNDERDRAIN CLEANOUT	EA	4
AR705905	REMOVE COLLECTION STRUCTURE	EA	1
AR800317	PAVEMENT SENSOR	EA	1
AR800333	PORTABLE CLOSED RUNWAY MARKER	EA	2
AR800357	ADJUSTABLE LIGHT CANS	EA	2
AR901510	SEEDING	AC	1
AR904510	SODDING	SY	1000
AR908520	EXCELSIOR BLANKET	SY	5000

BLOOMINGTON-NORMAL AIRPORT AUTHORITY
 CENTRAL ILLINOIS REGIONAL AIRPORT
 BLOOMINGTON, ILLINOIS

CONSTRUCT TAXIWAY G-1

INDEX TO SHEETS &
 SUMMARY OF QUANTITIES

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DESIGN BY: JEF

DRAWN BY: DPA

CHECKED BY: RLV

APPROVED BY: JEF

DATE: 1/13/2006

JOB No: 05085-0300

ILLINOIS PROJECT BMI-3452

A.I.P. PROJECT 3-17-0006-XX

SHEET 02 OF 2 SHEETS

GENERAL NOTES

- 1. ALL RUNWAYS, TAXIWAYS, AND APRONS SHALL BE KEPT OPEN TO AIRCRAFT TRAFFIC DURING CONSTRUCTION EXCEPT AS NOTED IN THE CONSTRUCTION ACTIVITY PLAN.
2. ALL CONSTRUCTION TRAFFIC OPERATING ON OR CROSSING RUNWAYS, TAXIWAYS, AND APRONS OPEN TO AIRCRAFT SHALL BE UNDER CONTROL OF A FLAGMAN IN RADIO CONTACT WITH FAA AIR TRAFFIC CONTROL TOWER PERSONNEL AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE HIS OWN RADIOS.
3. WHEN CONFLICTS ARISE BETWEEN CONSTRUCTION ACTIVITIES AND AIRCRAFT OPERATIONS AND SAFETY, AIRCRAFT OPERATIONS AND SAFETY SHALL TAKE PRECEDENCE AND SHALL GOVERN. FINAL AUTHORITY IN THE APPROVAL OF CONSTRUCTION SEQUENCING LIES WITH THE AIRPORT DIRECTOR.
4. THE CONTRACTOR WILL BE PERMITTED TO STORE EQUIPMENT AND MATERIALS AT THE LOCATIONS SHOWN.
5. BROKEN CONCRETE SHALL BE DISPOSED OF BY THE CONTRACTOR OFF AIRPORT PROPERTY.
6. VEHICLES AND EQUIPMENT SHALL NOT BE ALLOWED WITHIN AREAS 95' FROM THE CENTERLINE OF ACTIVE TAXIWAYS OR 250' FROM THE CENTERLINE OF ACTIVE RUNWAYS.
7. ALL PAVEMENTS, DRIVES, OR ANY OTHER AREAS UTILIZED BY THE CONTRACTOR FOR HAUL ROADS OR STORAGE AREAS SHALL BE MAINTAINED AND REPAIRED IN KIND BY THE CONTRACTOR TO THE SATISFACTION OF THE AIRPORT. NO ADDITIONAL COMPENSATION SHALL BE MADE TO THE CONTRACTOR FOR THIS WORK.
8. EXISTING TURF AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY HIM AT HIS EXPENSE TO THE SATISFACTION OF THE AIRPORT.
9. THE CONTRACTOR SHALL CONTINUOUSLY CLEAN ALL CONSTRUCTION AREAS WHICH WILL BE OPENED TO AIR TRAFFIC.
10. IT WILL BE NECESSARY FOR THE CONTRACTOR TO MAKE HIS OWN FIELD INVESTIGATION TO DETERMINE THE EXACT LOCATION OF THE UNDERGROUND UTILITIES AT CRITICAL POINTS SO AS TO AVOID ANY DAMAGE. ANY UTILITY, INCLUDING AIRFIELD ELECTRICAL CABLE AND LIGHTS, DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY HIM AT HIS OWN EXPENSE IN A MANNER WHICH IS SATISFACTORY TO THE ENGINEER, THE AIRPORT AND TO THE OWNER OF THE UTILITY. ANY REPAIRS THAT MUST BE MADE BY THE OWNER OF THE UTILITY SHALL HAVE THE COST REIMBURSED TO THE UTILITY BY THE CONTRACTOR. AIRFIELD LIGHTING CABLES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY A QUALIFIED ELECTRICIAN WITH THE COSTS TO BE BORNE BY THE CONTRACTOR.
11. THE CONTRACTOR SHALL MAINTAIN A SECURE AIRFIELD PERIMETER WITH EXISTING, TEMPORARY, RELOCATED OR PERMANENT 6' TALL FENCE THROUGHOUT THE DURATION OF THE PROJECT. COST OF ERECTION AND REMOVAL OF TEMPORARY FENCE WILL BE INCIDENTAL TO CONTRACT.
12. CONTRACTOR'S ACCESS SHALL BE AS FOLLOWS:
THE CONTRACTOR'S ACCESS TO THE WORK SHALL BE AS SHOWN IN THE PLANS.
A. THE CONTRACTOR SHALL COMPLETE A TEN YEAR CRIMINAL AND EMPLOYMENT BACKGROUND CHECK AND A SECURITY FORM FOR THE SUPERINTENDENTS AND SUPERVISING FOREMEN HE PROPOSES TO USE ON THE AIRPORT. THESE FORMS SHALL BE COMPLETED PRIOR TO THAT PERSON BEING ALLOWED ON THE AIRFIELD. A LIST OF PERSONNEL AUTHORIZED TO WORK ON THE AIRFIELD SHALL BE PROVIDED TO THE RESIDENT ENGINEER BY THE CONTRACTOR.
B. THE CONTRACTOR SHALL USE AN EXISTING GATE(S) FOR ACCESS TO THE AIRFIELD. THE CONTRACTOR SHALL INSTALL AND MAINTAIN A HEAVY-DUTY PADLOCK ON THE ACCESS GATE. HE SHALL PROVIDE KEYS FOR THIS PADLOCK TO THE RESIDENT ENGINEER AND BNA MAINTENANCE SUPERVISOR. NO ADDITIONAL KEYS ARE TO BE DISTRIBUTED UNLESS AUTHORIZED BY THE RESIDENT ENGINEER.
C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE ACCESS GATE(S) CLOSED DURING WORK HOURS. IF THE CONTRACTOR CHOOSES TO LEAVE THE GATE(S) OPEN, THEN HE SHALL POST A COMPETENT SECURITY GUARD TO PREVENT UNAUTHORIZED ENTRIES. THE CONTRACTOR SHALL REPLACE ANY UNSATISFACTORY SECURITY GUARDS IF SO DIRECTED.
D. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND TEMPORARY EASEMENTS FOR THE ACCESS ROAD(S) SHOWN AND SHALL COMPLY WITH ALL TRAFFIC CONTROL SIGNAGE REQUIRED BY THE CITY, COUNTY, TOWNSHIP, OR I.D.O.T..
E. DURING ADVERSE WEATHER THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE WORK AT NO ADDITIONAL COST TO THE CONTRACT. NO EXTENSION OF CONTRACT TIME WILL BE CONSIDERED FOR DELAYS DUE TO LACK OF ADEQUATE ACCESS TO THE WORK SITE.
F. THE CONTRACTOR WILL CLOSE AND LOCK THE ACCESS GATE(S) UPON LEAVING THE SITE.
G. ALL COSTS RELATING TO CONTRACTOR'S ACCESS AND SECURITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
H. THE CONTRACTOR SHALL STORE EQUIPMENT AND MATERIALS IN SUCH A WAY AS TO VIOLATE AIRSPACE SURFACES, OR RUNWAY AND TAXIWAY OBJECT FREE OR SAFETY AREAS.
I. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ACTIVE AIRFIELD PAVEMENTS WHICH ARE CROSSED BY HIS VEHICLES ACCESSING THE WORK OR DEPARTING THE WORK IMMEDIATELY FOLLOWING SAID VEHICLE.

REVISIONS

Table with columns: NUMBER, BY, DATE

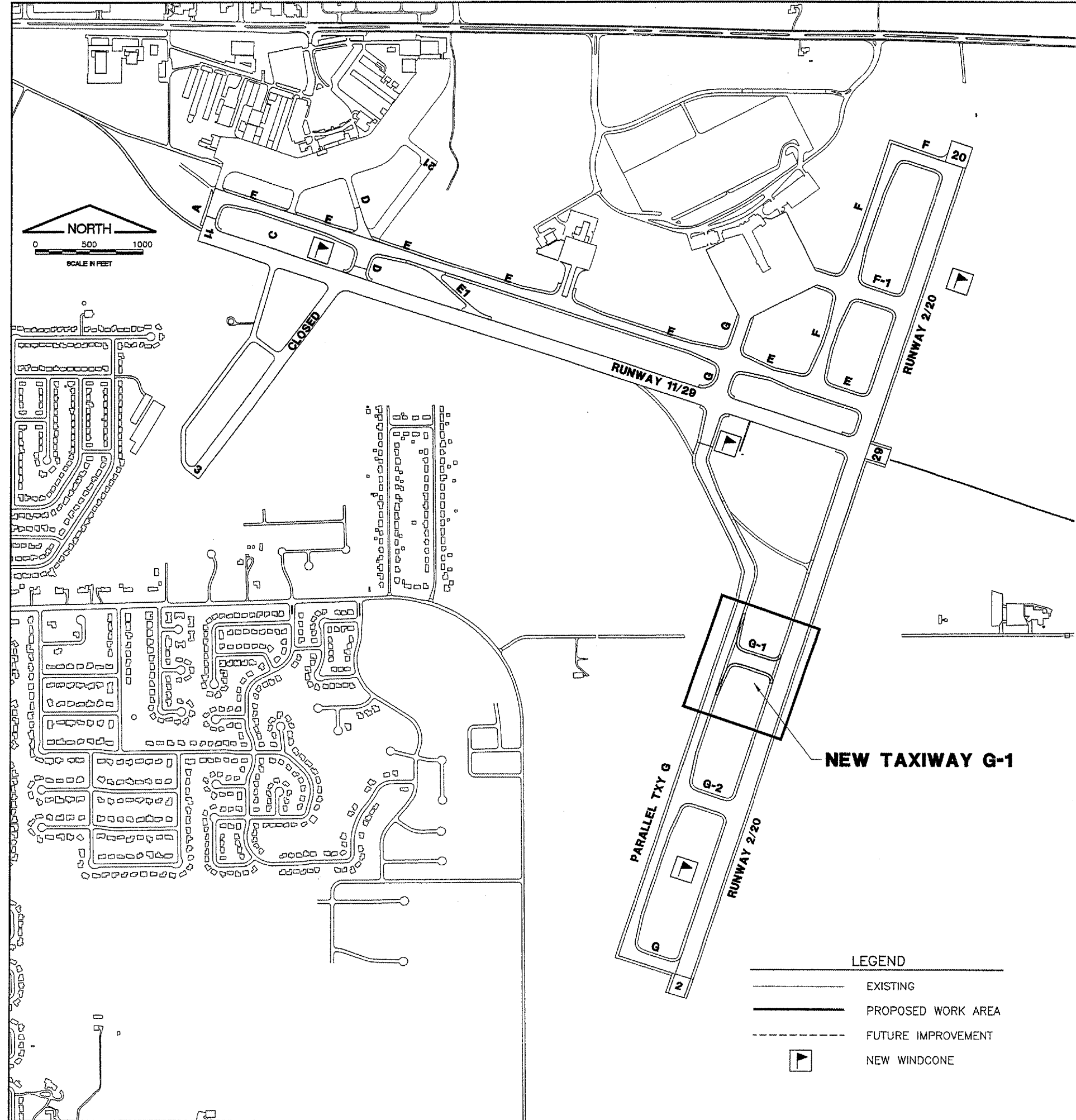
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BLOOMINGTON-NORMAL AIRPORT AUTHORITY
CENTRAL ILLINOIS REGIONAL AIRPORT
BLOOMINGTON, ILLINOIS
CONSTRUCT TAXIWAY G-1
AIRPORT SITE PLAN

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GROUND CONTROL FREQUENCY - 121.65
AIR CONTROL FREQUENCY - 124.60



LEGEND
- - - - - EXISTING
- - - - - PROPOSED WORK AREA
- - - - - FUTURE IMPROVEMENT
[Symbol] NEW WINDCONE

BL059

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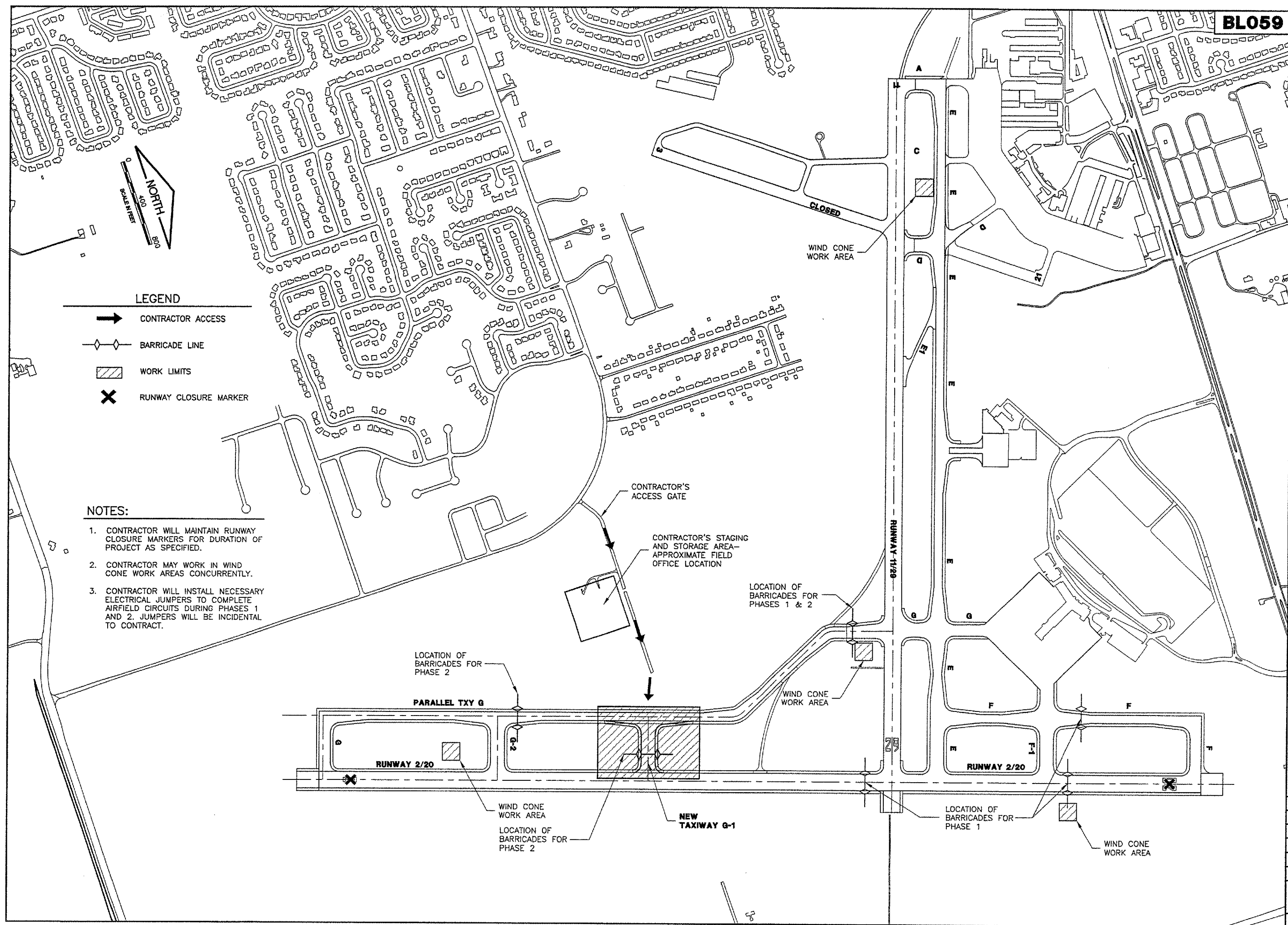
**BLOOMINGTON-NORMAL AIRPORT AUTHORITY
CENTRAL ILLINOIS REGIONAL AIRPORT
BLOOMINGTON, ILLINOIS**

CONSTRUCT TAXIWAY G-1

CONSTRUCTION ACTIVITY PLAN 1

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APPROVED BY: JEF
DATE: 1/13/2006
JOB No: 05085-0300
ILLINOIS PROJECT BMI-3452
A.I.P. PROJECT 3-17-0006-XX
SHEET 04 OF 33 SHEETS



LEGEND

- ➔ CONTRACTOR ACCESS
- ◊ BARRICADE LINE
- ▨ WORK LIMITS
- ✕ RUNWAY CLOSURE MARKER

NOTES:

1. CONTRACTOR WILL MAINTAIN RUNWAY CLOSURE MARKERS FOR DURATION OF PROJECT AS SPECIFIED.
2. CONTRACTOR MAY WORK IN WIND CONE WORK AREAS CONCURRENTLY.
3. CONTRACTOR WILL INSTALL NECESSARY ELECTRICAL JUMPERS TO COMPLETE AIRFIELD CIRCUITS DURING PHASES 1 AND 2. JUMPERS WILL BE INCIDENTAL TO CONTRACT.

LOCATION OF BARRICADES FOR PHASE 2

PARALLEL TXY G

RUNWAY 2/20

WIND CONE WORK AREA

LOCATION OF BARRICADES FOR PHASE 2

NEW TAXIWAY G-1

CONTRACTOR'S ACCESS GATE

CONTRACTOR'S STAGING AND STORAGE AREA—APPROXIMATE FIELD OFFICE LOCATION

LOCATION OF BARRICADES FOR PHASES 1 & 2

WIND CONE WORK AREA

WIND CONE WORK AREA

CLOSED

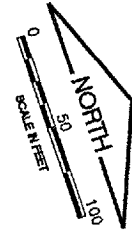
LOCATION OF BARRICADES FOR PHASE 1

WIND CONE WORK AREA

RUNWAY 11/20

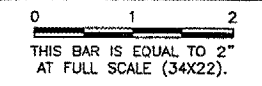
RUNWAY 2/20

F-1



REVISIONS

NUMBER	BY	DATE



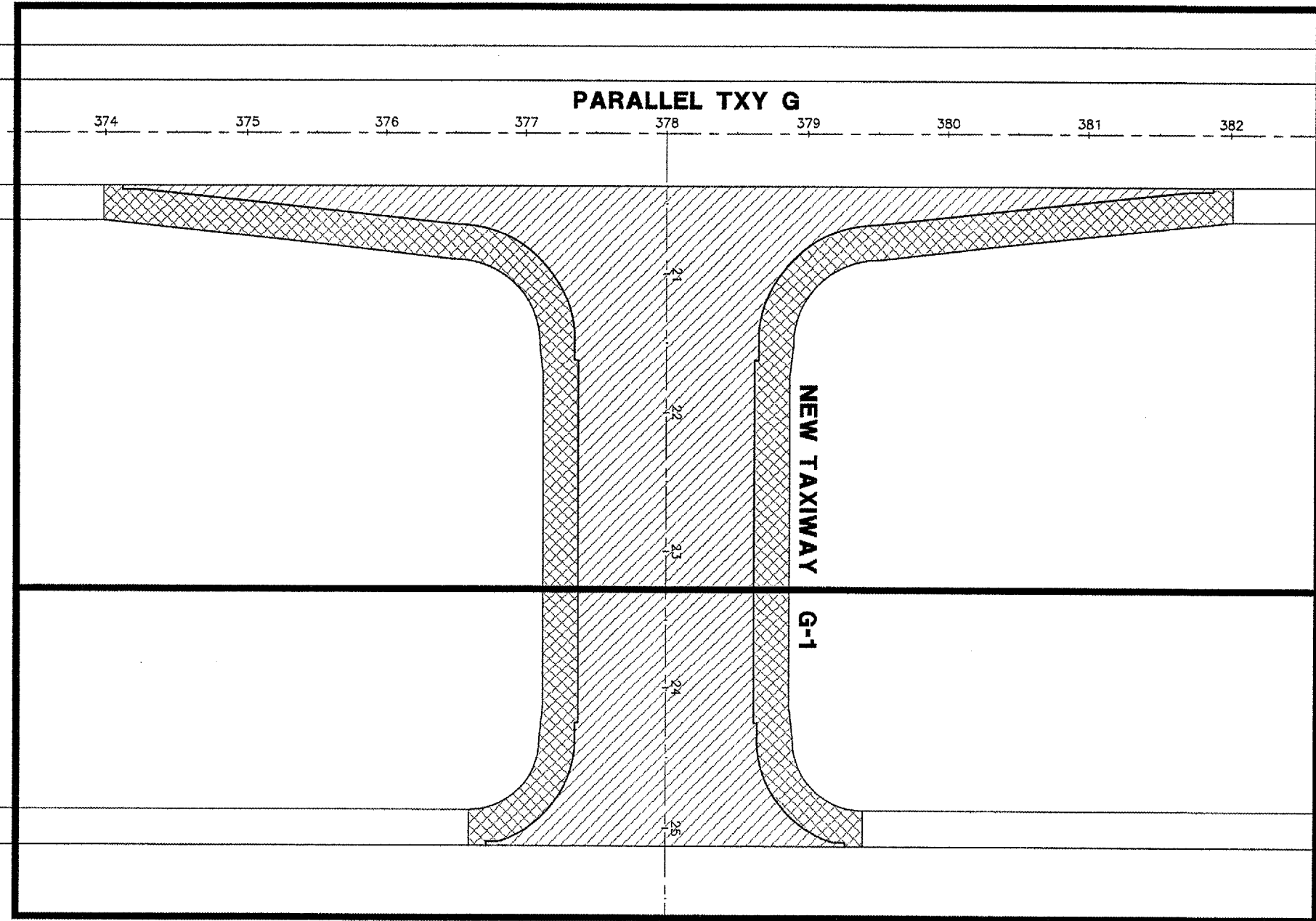
371 372 373 374 375 376 377 378 379 380 381 382 383 384

NOTES

1. THE WORK IN PHASE 1 SHALL BE EXPIDITED BY THE CONTRACTOR. THE CONTRACTOR WILL HAVE 25 CALENDER DAYS BETWEEN MAY 30, 2006 TO JUNE 23, 2006 TO COMPLETE THIS WORK. DURING THIS TIME PERIOD, RUNWAY 2/20 WILL BE CLOSED.
2. THE CONTRACTOR WILL BE ALLOWED TO WORK IN PHASE 1 AND 2 CONCURRENTLY. WORK IN PHASE 1 WILL TAKE PRIORITY OVER PHASE 2 DUE TO THE CLOSURE OF RUNWAY 2/20.
3. WHEN WORK IS TAKING PLACE IN PHASE 2 ONLY, THE CONTRACTOR WILL CLOSE TAXIWAY G BETWEEN TAXIWAY G-2 AND RUNWAY 11/29 DURING THE DAYTIME ONLY. THE CONTRACTOR WILL REMOVE THE BARRICADES AFTER CLEANING ALL DEBRIS FROM TAXIWAY G PAVEMENT AND WORK AREA AFTER EACH WORK DAY. BARRICADES WILL BE PLACED ALONG TAXIWAY G ADJACENT TO THE WORK AREA DURING THE EVENING.

LEGEND

- NEW BITUMINOUS SHOULDER
- NEW PCC TAXIWAY



771 772 773 774 775 776 777 778 779 780 781 782 783 784

RUNWAY 2/20

PHASE 1
WORK LIMITS

PHASE 2
WORK LIMITS

260'

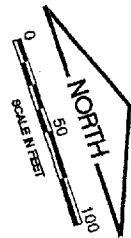
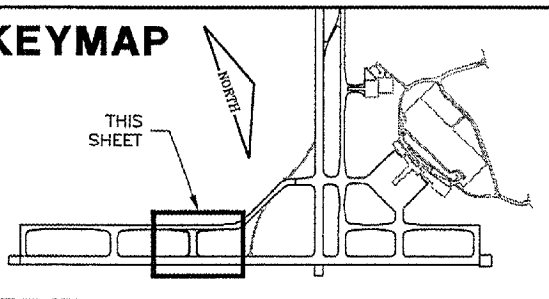
BLOOMINGTON-NORMAL AIRPORT AUTHORITY
CENTRAL ILLINOIS REGIONAL AIRPORT
BLOOMINGTON, ILLINOIS
CONSTRUCT TAXIWAY G-1
CONSTRUCTION ACTIVITY PLAN 2

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CHECKED BY:	RLV
APPROVED BY:	JEF
DATE:	1/13/2006
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ILLINOIS PROJECT	BMI-3452
A.I.P. PROJECT	3-17-0006-XX
SHEET	05 OF 33 SHEETS

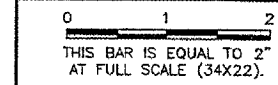
KEYMAP



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 BASE_PROPGEOD.dwg
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 BASE_EXISTELEC.dwg
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REVISIONS		
NUMBER	BY	DATE



PARALLEL TXY G

371 372 373 374 375 376 377 378 379 380 381 382 383 384 385

EXISTING FAA FIBER OPTIC CABLE IN GRS CONDUIT

CONNECT EXISTING UNDERDRAINS TOGETHER AFTER COLLECTION STRUCTURE REMOVAL. COST OF CONNECTION INCIDENTAL TO COLLECTION STRUCTURE REMOVAL.

EXISTING FAA FIBER OPTIC CABLE

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

IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY OF HIS OPERATIONAL PLANS. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR DETAILED INFORMATION AND ASSISTANCE IN LOCATING UTILITIES. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY, THE OWNER, AND THE RESIDENT ENGINEER. ANY SUCH MAINS AND/OR SERVICES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED IMMEDIATELY AT HIS EXPENSE TO THE SATISFACTION OF THE OWNER AND THE ENGINEER.

LEGEND

- R [] EXIST. TXY EDGE LIGHTS - TO BE REMOVED
- R [] EXIST. RWY EDGE LIGHT - TO BE REMOVED
- R @CS EXIST. COLLECTION STRUCTURE - TO BE REMOVED
- CO EXIST. CLEANOUT
- [/] EXIST. SHOULDER PAVEMENT - TO BE REMOVED
- [] EXIST. INLET
- R @ EXIST. SPLICE CAN - TO BE REMOVED
- RR @ EXIST. SURFACE SENSOR - TO BE REMOVED & REPLACED
- ⊙ EXIST. SURFACE SENSOR
- ⊙ EXIST. FLUSH-MOUNTED RWY LIGHT

NEW TAXIWAY G-1

RUNWAY 2/20

771 772 773 774 775 776 777 778 779 780 781 782 783 784 785

**BLOOMINGTON-NORMAL AIRPORT AUTHORITY
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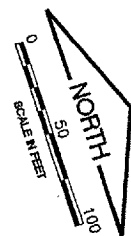
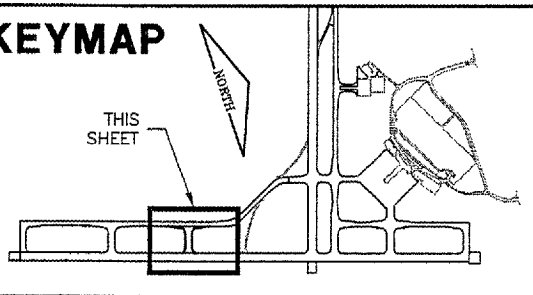
**CONSTRUCT TAXIWAY G-1
 EXISTING CONDITIONS & REMOVALS**

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DRAWN BY:	DPA
CHECKED BY:	RLV
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SHEET	06 OF 33 SHEETS

KEYMAP

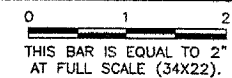


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 KEY.dwg

REVISIONS

NUMBER	BY	DATE



PARALLEL TXY G

371 372 373 374 375 376 377 378 379 380 381 382 383 384

NEW TAXIWAY G-1

- LEGEND**
- NEW BITUMINOUS SHOULDER
 - NEW PCC TAXIWAY

BM #CC (INLET)
 ELEV. = 859.88

STA. 21+50.00
 O/S 150' RT.

BM #ZZ (INLET)
 ELEV. = 860.28

BM #EE (INLET)
 ELEV. = 860.66

BM #QQ (INLET)
 ELEV. = 861.50

IRON PIN #7
 N. 1386136.8867
 E. 822671.4010
 STA. 774+82.8828
 O/S 299.0712' LT
 OF RWY 2/20 CL

IRON PIN #6
 N. 1386744.2687
 E. 822883.0113
 STA. 781+25.9868
 O/S 289.0312' LT
 OF RWY 2/20 CL

STA. 24+37.50
 O/S 140' RT.

STA. 24+37.50
 O/S 140' LT.

RUNWAY 2/20

771 772 773 774 775 776 777 778 779 780 781 782 783 784

STA. 778+00.00 RWY 2/20=
 STA. 25+87.50 TXY G-1

**BLOOMINGTON-NORMAL AIRPORT AUTHORITY
 CENTRAL ILLINOIS REGIONAL AIRPORT
 BLOOMINGTON, ILLINOIS**

CONSTRUCT TAXIWAY G-1

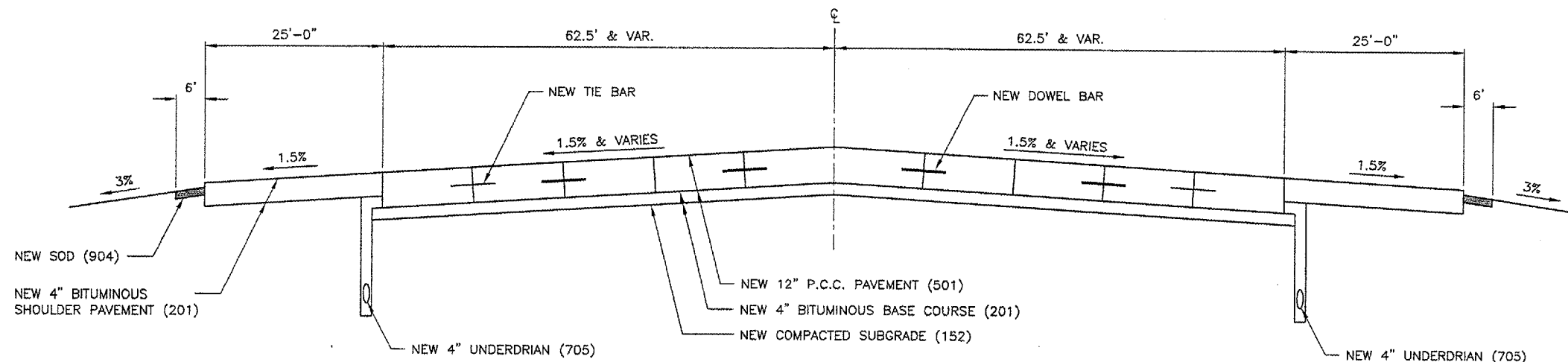
PROPOSED IMPROVEMENTS

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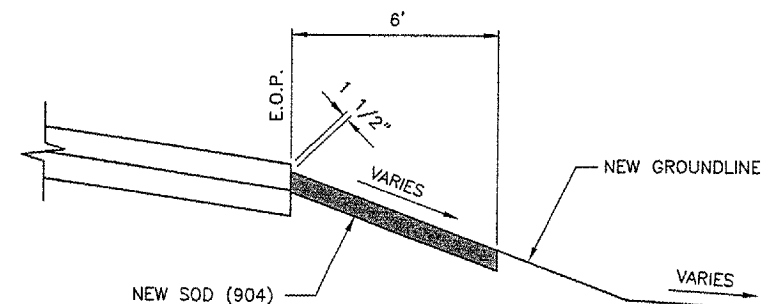
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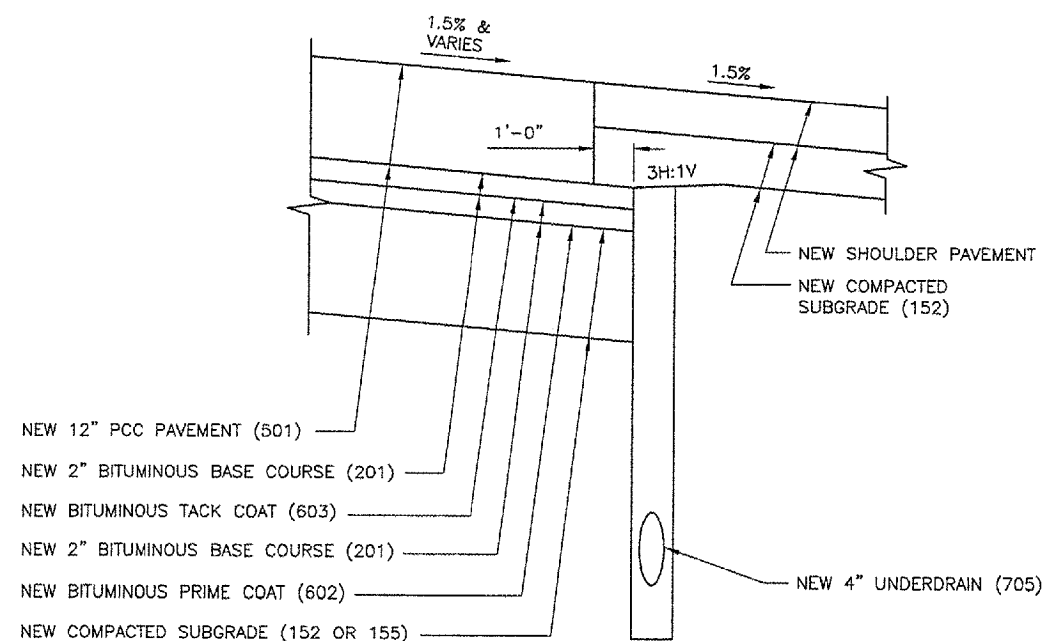
DESIGN BY:	JEF
DRAWN BY:	DPA
CHECKED BY:	RLV
APPROVED BY:	JEF
DATE:	1/13/2006
JOB No:	05085-0300
ILLINOIS PROJECT	BMI-3452
A.I.P. PROJECT	3-17-0006-XX
SHEET	07 OF 33 SHEETS



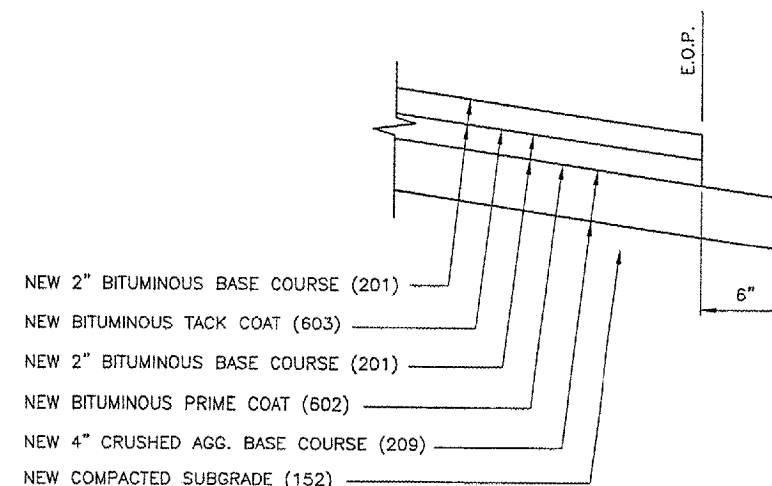
NEW CONNECTING TAXIWAY G-1 TYPICAL SECTION
 N.T.S.



NEW SHOULDER TURF DETAIL
 N.T.S.

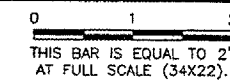


NEW PAVEMENT SHOULDER DETAIL
 N.T.S.



NEW SHOULDER PAVEMENT
 N.T.S.

REVISIONS		
NUMBER	BY	DATE



BLOOMINGTON-NORMAL AIRPORT AUTHORITY
CENTRAL ILLINOIS REGIONAL AIRPORT
BLOOMINGTON, ILLINOIS
CONSTRUCT TAXIWAY G-1
TYPICAL SECTIONS

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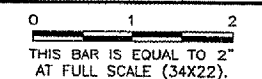
DESIGN BY:	JEF
DRAWN BY:	DPA
CHECKED BY:	RLV
APPROVED BY:	JEF
DATE:	1/13/2006
JOB No:	05085-0300
ILLINOIS PROJECT BMI-3452	
A.I.P. PROJECT 3-17-0006-XX	
SHEET	08 OF 33 SHEETS

BL059

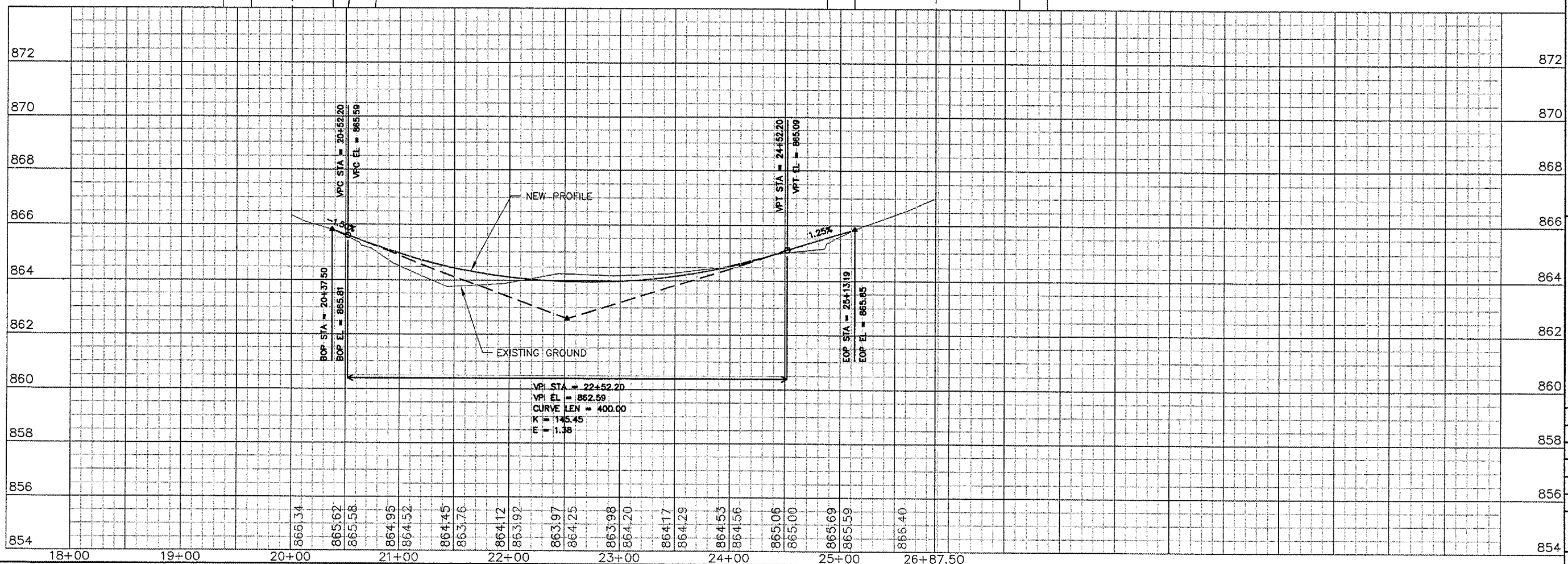
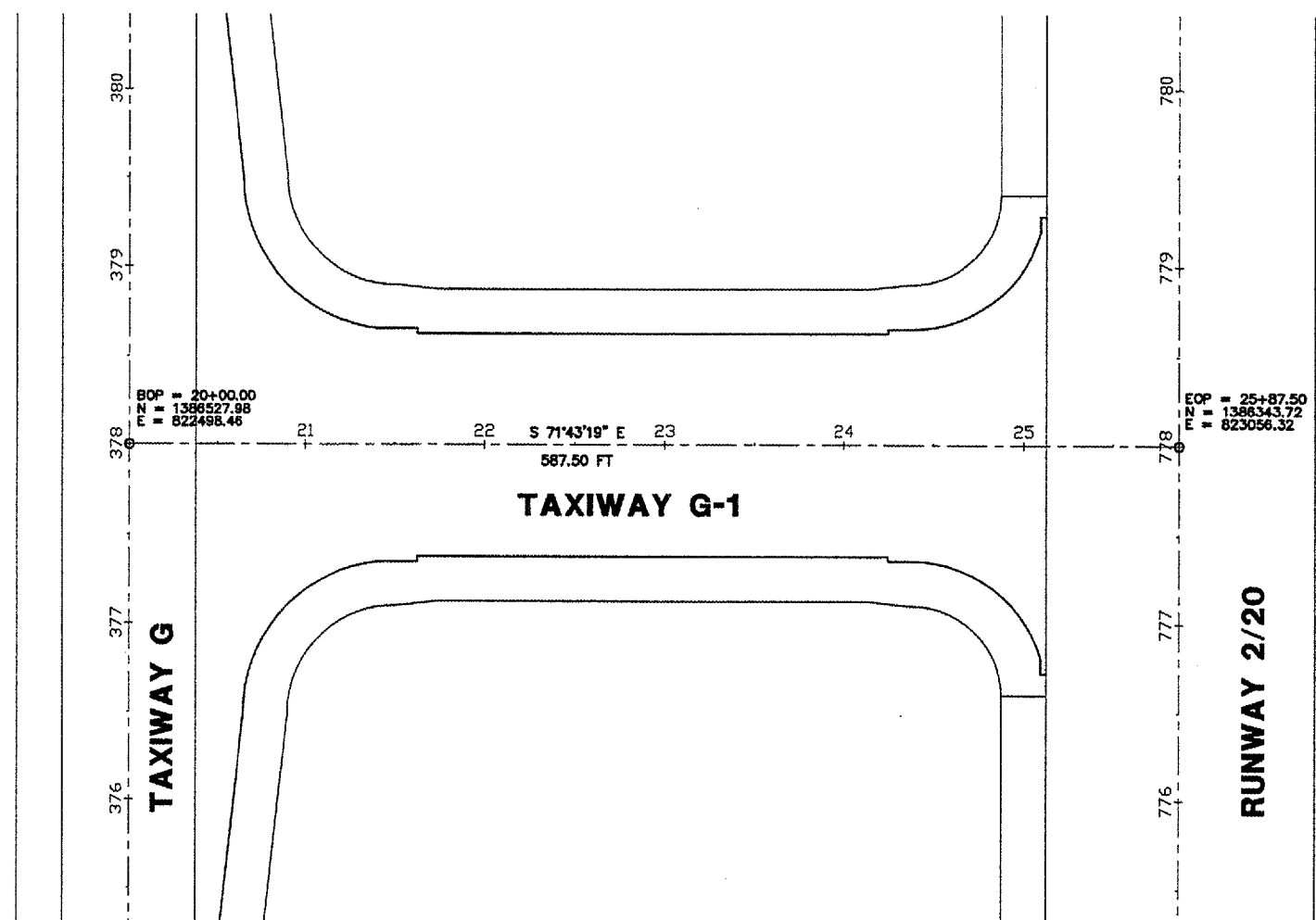
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 rcpr1001.dwg
 BMIDesBase.dwg
 BASE_EXISTGEO.dwg
 BASE_PROPGE0.dwg



REVISIONS		
NUMBER	BY	DATE



SCALES:
 1" = 50' HOR
 1" = 2' VER

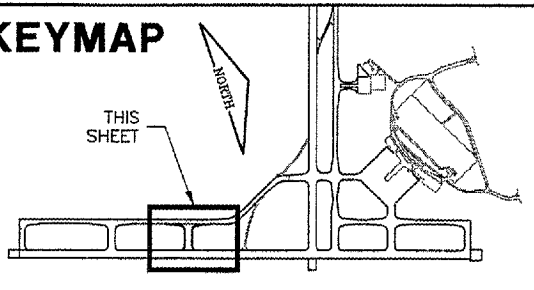


BLOOMINGTON-NORMAL AIRPORT AUTHORITY
CENTRAL ILLINOIS REGIONAL AIRPORT
BLOOMINGTON, ILLINOIS
CONSTRUCT TAXIWAY G-1
TAXIWAY G-1 PLAN & PROFILE
STA. 18+00 TO STA. 25+87.50

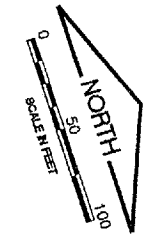
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DATE:	1/13/2006
JOB No:	05085-0300
ILLINOIS PROJECT	BMI-3452
A.I.P. PROJECT	3--17--0006--XX
SHEET	09 OF 33 SHEETS

KEYMAP

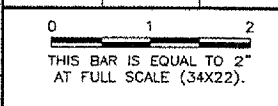


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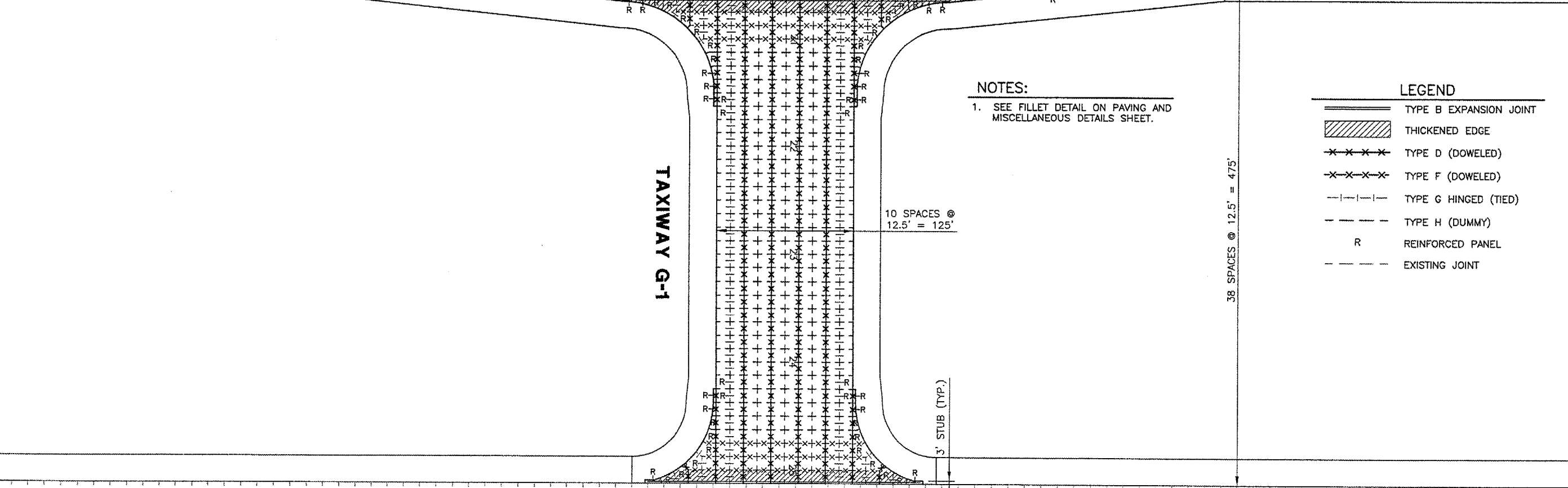
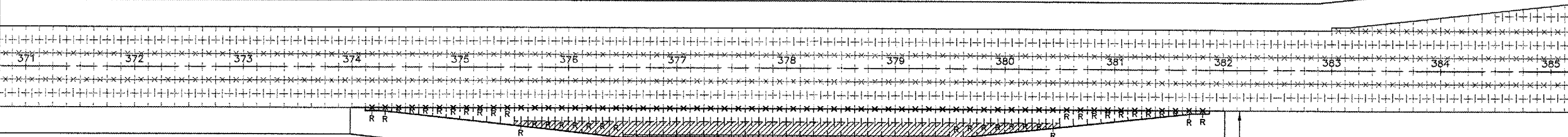


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 KEY.dwg
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 BASE_EXISTJOINTS.dwg

REVISIONS		
NUMBER	BY	DATE



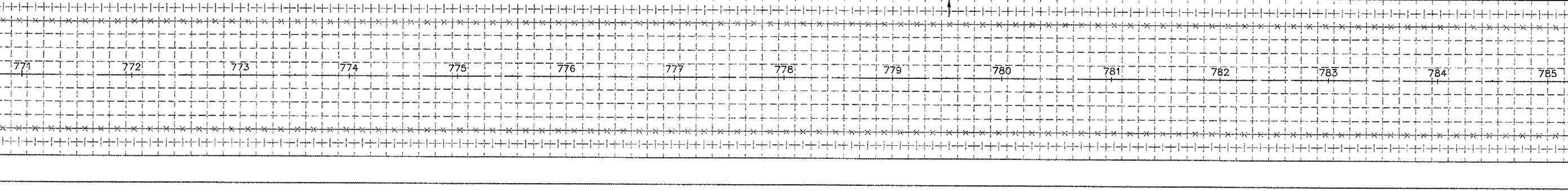
TAXIWAY G



NOTES:
 1. SEE FILLET DETAIL ON PAVING AND MISCELLANEOUS DETAILS SHEET.

LEGEND

	TYPE B EXPANSION JOINT
	THICKENED EDGE
	TYPE D (DOWELED)
	TYPE F (DOWELED)
	TYPE G HINGED (TIED)
	TYPE H (DUMMY)
	REINFORCED PANEL
	EXISTING JOINT



RUNWAY 2/20

BLOOMINGTON-NORMAL AIRPORT AUTHORITY
CENTRAL ILLINOIS REGIONAL AIRPORT
BLOOMINGTON, ILLINOIS
CONSTRUCT TAXIWAY G-1
JOINTING PLAN

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DATE:	1/13/2006
JOB No:	05085-0300
ILLINOIS PROJECT	BMI-3452
A.I.P. PROJECT	3-17-0006-XX
SHEET	10 OF 33 SHEETS

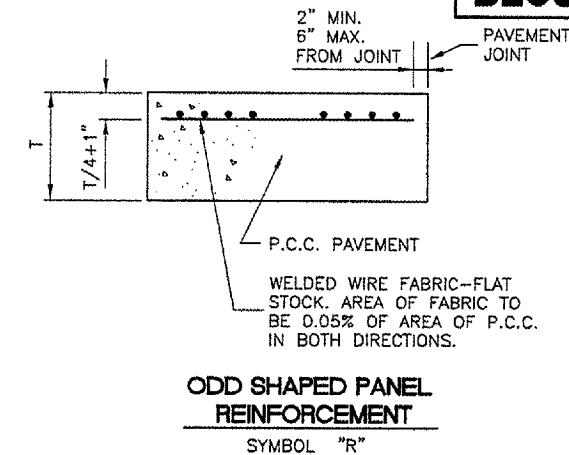
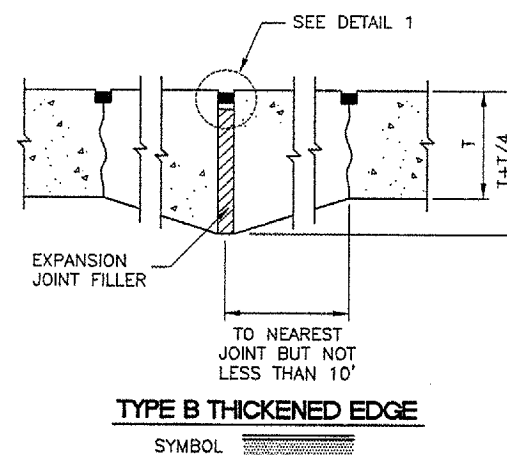
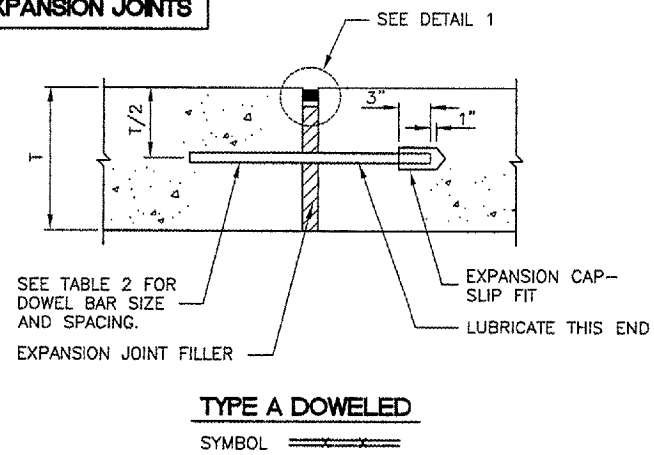
PAVEMENT THICKNESS T - INCHES	DEPTH OF CONTRACTION JOINT INITIAL SAWCUT I, INCHES $I = (T/3) \pm 1/4"$
5	1.67"
6	2.00"
7	2.33"
8	2.67"
9	3.00"
10	3.33"
11	3.67"
12	4.00"
13	4.33"
14	4.67"
15	5.00"
16	5.33"
17	5.67"
18	6.00"

PAVEMENT THICKNESS T - INCHES	DOWEL BAR DETAILS				TIE BAR DETAILS	
	DIA.	LENGTH	SPACING	BAR SIZE	LENGTH	SPACING
5	5/8"	12"	12"	#4	24"	30"
6	3/4"	18"	12"	#5	30"	30"
7	3/4"	18"	12"	#5	30"	30"
8	1"	19"	12"	#5	30"	30"
9	1"	19"	12"	#5	30"	30"
10	1"	19"	12"	#5	30"	30"
11	1"	19"	12"	#5	30"	30"
12	1"	19"	12"	#5	30"	30"
13	1 1/4"	20"	15"	#5	30"	30"
14	1 1/4"	20"	15"	#5	30"	30"
15	1 1/4"	20"	15"	#5	30"	30"
16	1 1/4"	20"	15"	#5	30"	30"
17	1 1/2"	20"	18"	#5	30"	30"
18	1 1/2"	20"	18"	#5	30"	30"

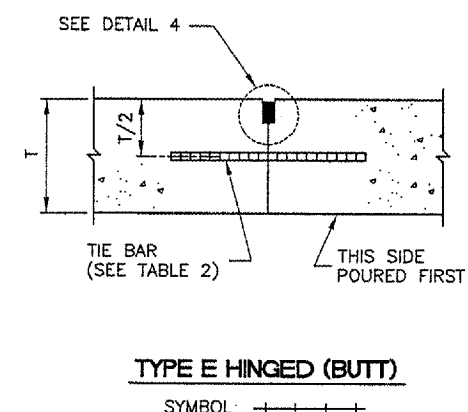
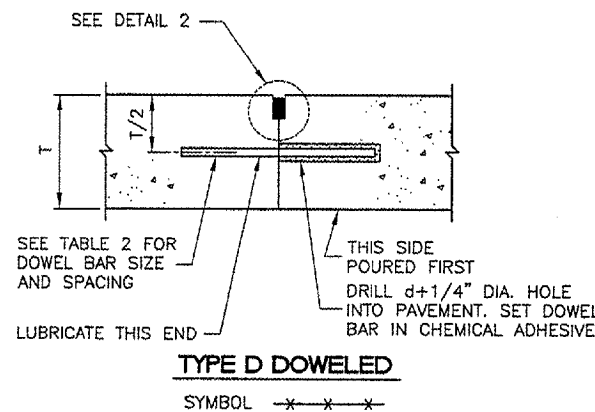
PAVEMENT THICKNESS T - INCHES	KEYED JOINT DIMENSIONS		
	a	b	c
6	-----	-----	-----
7	-----	-----	-----
8	0.133' (1-5/8"±)	0.017' (3/16"±)	0.067' (7/8"±)
9	0.150' (1-13/16"±)	0.019' (3/16"±)	0.075' (7/8"±)
10	0.167' (2")	0.021' (1/4"±)	0.083' (1"±)
11	0.183' (2 13/16"±)	0.023' (1/4"±)	0.092' (1 1/8"±)
12	0.200' (2 3/8"±)	0.025' (5/16"±)	0.100' (1 1/4"±)
13	0.217' (2 5/8"±)	0.027' (5/16"±)	0.108' (1 5/16"±)
14	0.233' (2 13/16"±)	0.029' (3/8"±)	0.117' (1 7/16"±)
15	0.250' (3"±)	0.031' (3/8"±)	0.125' (1 1/2"±)
16	0.267' (3 13/16"±)	0.033' (7/16"±)	0.133' (1 5/8"±)

	DETAIL 1	DETAIL 2	DETAIL 3	DETAIL 4	DETAIL 5
	HOT/COLD POUR	HOT/COLD POUR	HOT/COLD POUR	HOT/COLD POUR	HOT/COLD POUR
W=WIDTH OF SEALANT RESERVOIR (INCHES)	1	1/2	1/2	1/2	3/8
D=DEPTH OF SEALANT RESERVOIR (INCHES)	1	1/2	1/2	1/2	N/A
B=BACKER ROD DIAMETER (INCHES)	N/A	5/8	5/8	N/A	N/A
S=SECOND SAWCUT DEPTH (INCHES) (MINIMUM)	N/A	1 3/8	1 3/8	3/4	1 1/2

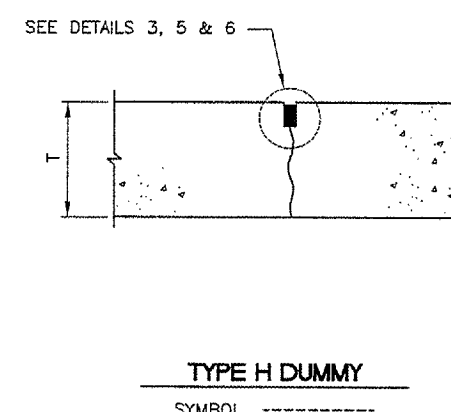
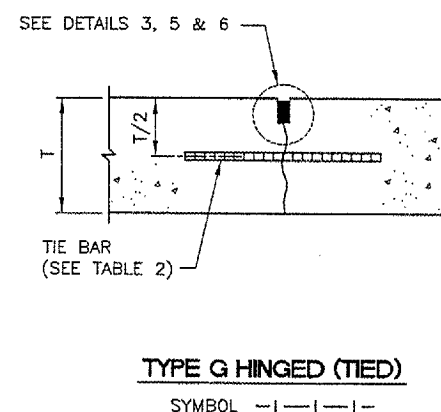
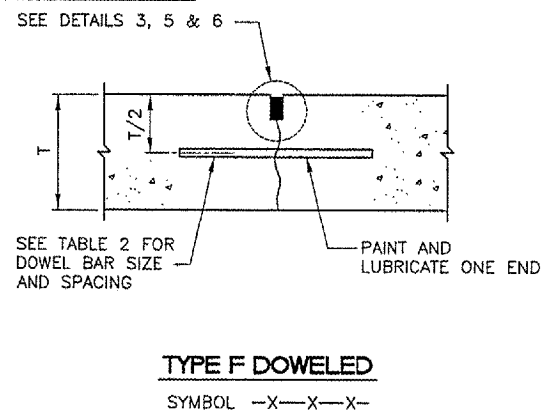
EXPANSION JOINTS



CONSTRUCTION JOINTS



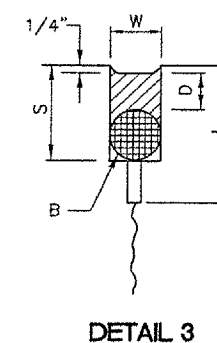
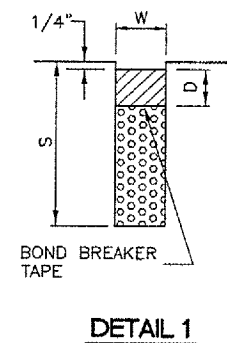
CONTRACTION JOINTS



JOINT NOTES

- 1.) ALL EDGES OF NEW SLABS, FREE STANDING OR CLOSURE, SHALL BE EDGED WITH AN APPROVED TOOL HAVING A RADIUS OF 1/8" TO 1/4" TO FACILITATE SAWING OF THE SEALANT RESERVOIR. A RADIUS > 1/4" WILL NOT BE ACCEPTABLE.
- 2.) THE INITIAL SAWCUT FOR ALL LONGITUDINAL & TRANSVERSE CONTRACTION JOINTS SHALL BE SAWS AS SOON AS POSSIBLE AFTER PLACEMENT OF THE PAVEMENT.
- 3.) ALL TIE BARS & MESH SHALL BE SECURELY HELD IN PLACE BY SUPPORT PINS OR OTHER APPROVED METHODS TO PREVENT SHIFTING DURING & AFTER CONCRETE PLACEMENT.
- 4.) TIE BARS SHALL BE DEFORMED BARS IN CONFORMANCE WITH THE SPECIFICATIONS.
- 5.) THE INITIAL SAWCUT SHALL BE MADE TO THE 1/8" WIDTH INDICATED. INITIAL SAWING TO THE DIMENSIONS OF THE SECOND SAWCUT WILL NOT BE ALLOWED.

JOINT SEALING DETAILS



BLO59

K:\Bloomington\0508503\Draw\Sheets\
FILE: 11_JNTDET.dwg
LAYOUT: JNTDET
UPDATE BY: adraughton
SURVEY BOOK #
DATE: Thu 1/12/06 10:18am
XREF DWG: Cntinfo.dwg

REVISIONS

NUMBER	BY	DATE

0 1 2
THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

BLOOMINGTON-NORMAL AIRPORT AUTHORITY
CENTRAL ILLINOIS REGIONAL AIRPORT
BLOOMINGTON, ILLINOIS

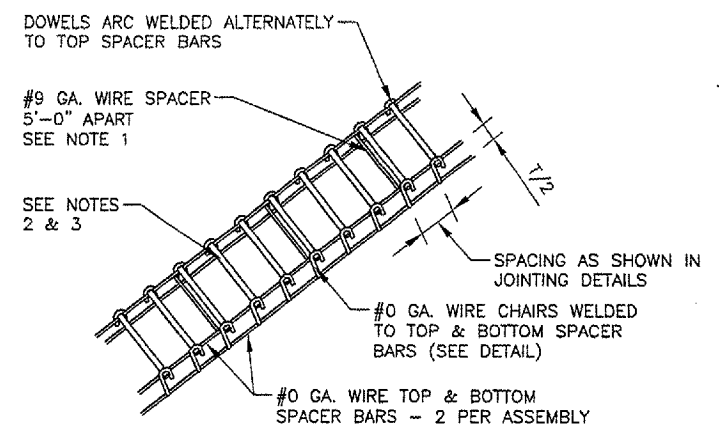
CONSTRUCT TAXIWAY G-1

JOINTING DETAILS

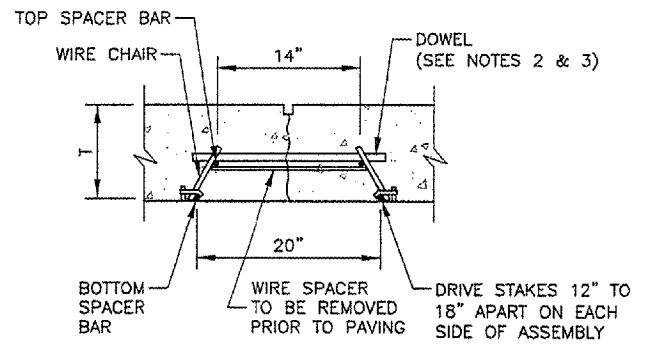
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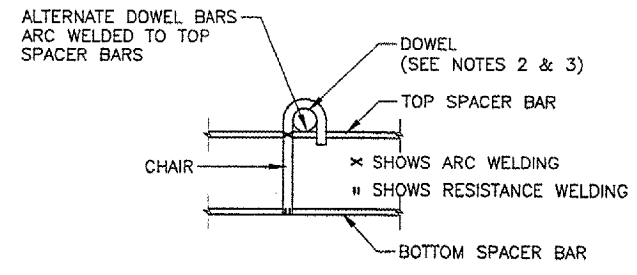
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DRAWN BY: DPA
CHECKED BY: RLV
APPROVED BY: JEF
DATE: 1/13/2006
JOB No: 05085-0300
ILLINOIS PROJECT BMI-3452
A.I.P. PROJECT 3-17-0006-XX
SHEET 11 OF 33 SHEETS



DOWEL BASKET ASSEMBLY DETAILS AND NOTES
N.T.S.



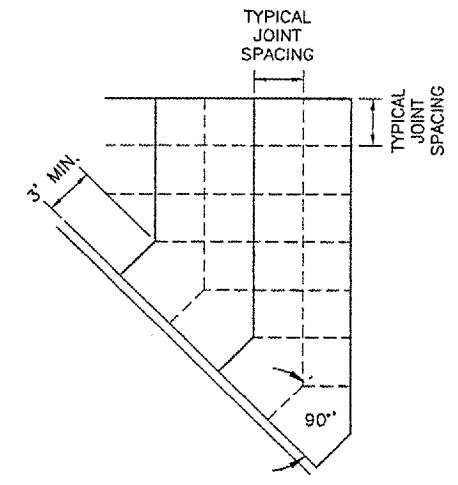
DOWEL BAR INSTALLATION DETAIL
N.T.S.



TYPICAL DOWEL BASKET ELEVATION DETAIL SHOWING CHAIR
N.T.S.

DOWEL BASKET NOTES

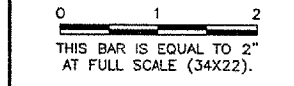
- 1.) #9 GA. WIRE SPACER BAR ARC WELDED TO THE BOTTOM OF TOP SPACER BAR. (MAY BE MECHANICALLY ATTACHED IN LIEU OF WELDING) 3 REQUIRED PER UNIT. THIS WIRE MUST BE CUT OR REMOVED PRIOR TO PAVING.
- 2.) DOWEL BAR DIAMETER, LENGTH & SPACING SHALL BE AS SHOWN IN TABLE 2.
- 3.) DOWELS SHALL BE EPOXY COATED FULL LENGTH OF DOWEL IMMEDIATELY PRIOR TO PAVING, THE FREE END OF EACH DOWEL SHALL BE LUBRICATED OR OILED, FOR HALF THE LENGTH OF THE DOWEL.



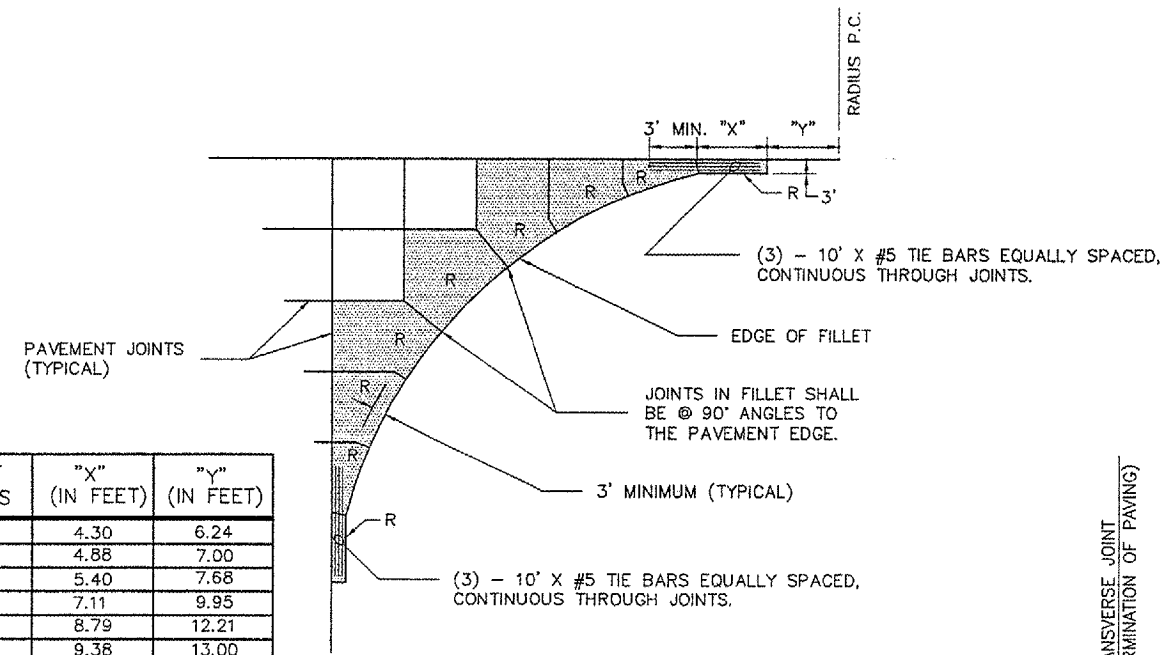
JOINTING AT SKEWED EDGE
N.T.S.

REVISIONS

NUMBER	BY	DATE

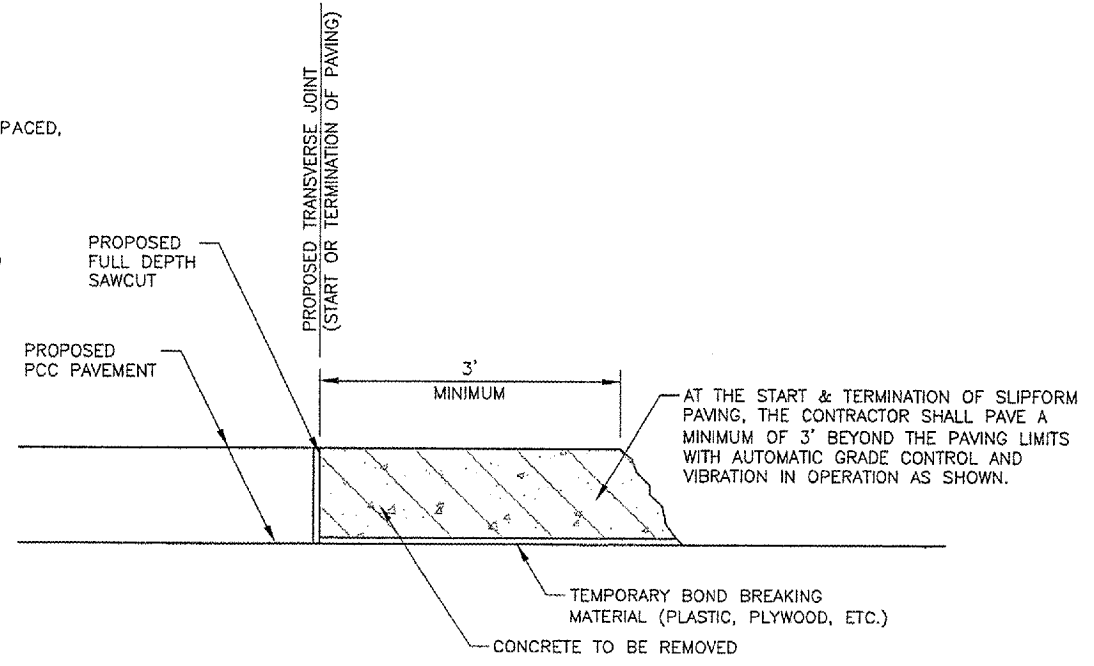


DOWEL BASKET DETAILS
N.T.S.

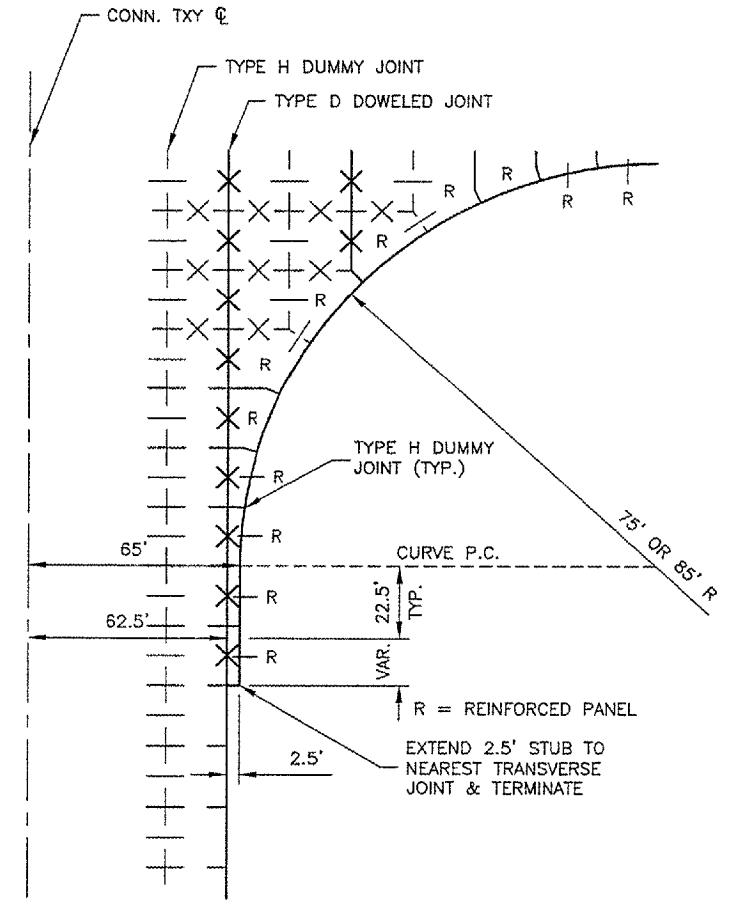


FILLET RADIUS	"X" (IN FEET)	"Y" (IN FEET)
20	4.30	6.24
25	4.86	7.00
30	5.40	7.68
50	7.11	9.95
75	8.79	12.21
85	9.36	13.00
100	10.21	14.11
125	11.44	15.78
150	12.56	17.29
175	13.58	18.68
200	14.53	19.98

FILLET DETAIL AND FILLET REINFORCING LAYOUT
N.T.S.



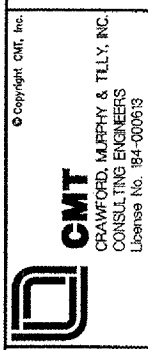
REQUIREMENTS AT START AND TERMINATION OF SLIPFORM PAVING
N.T.S.



JOINTING AT CONNECTING TAXIWAY WIDTH TRANSITION
N.T.S.

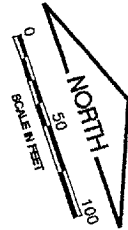
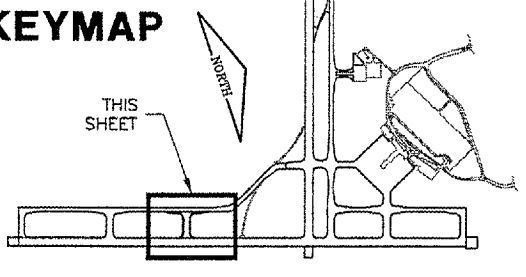
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 - CONN. TXY G1, STA. 24+37.5±, RT. & LT.
 - CONN. TXY G1, STA. 21+50±, RT. & LT.

BLOOMINGTON-NORMAL AIRPORT AUTHORITY
CENTRAL ILLINOIS REGIONAL AIRPORT
BLOOMINGTON, ILLINOIS
CONSTRUCT TAXIWAY G-1
PAVING & MISCELLANEOUS DETAILS



DESIGN BY: JEF
 DRAWN BY: DPA
 CHECKED BY: RLV
 APPROVED BY: JEF
 DATE: 1/13/2006
 JOB No: 05085-0300
 ILLINOIS PROJECT BMI-3452
 A.I.P. PROJECT 3-17-0006-XX
 SHEET 12 OF 33 SHEETS

KEYMAP

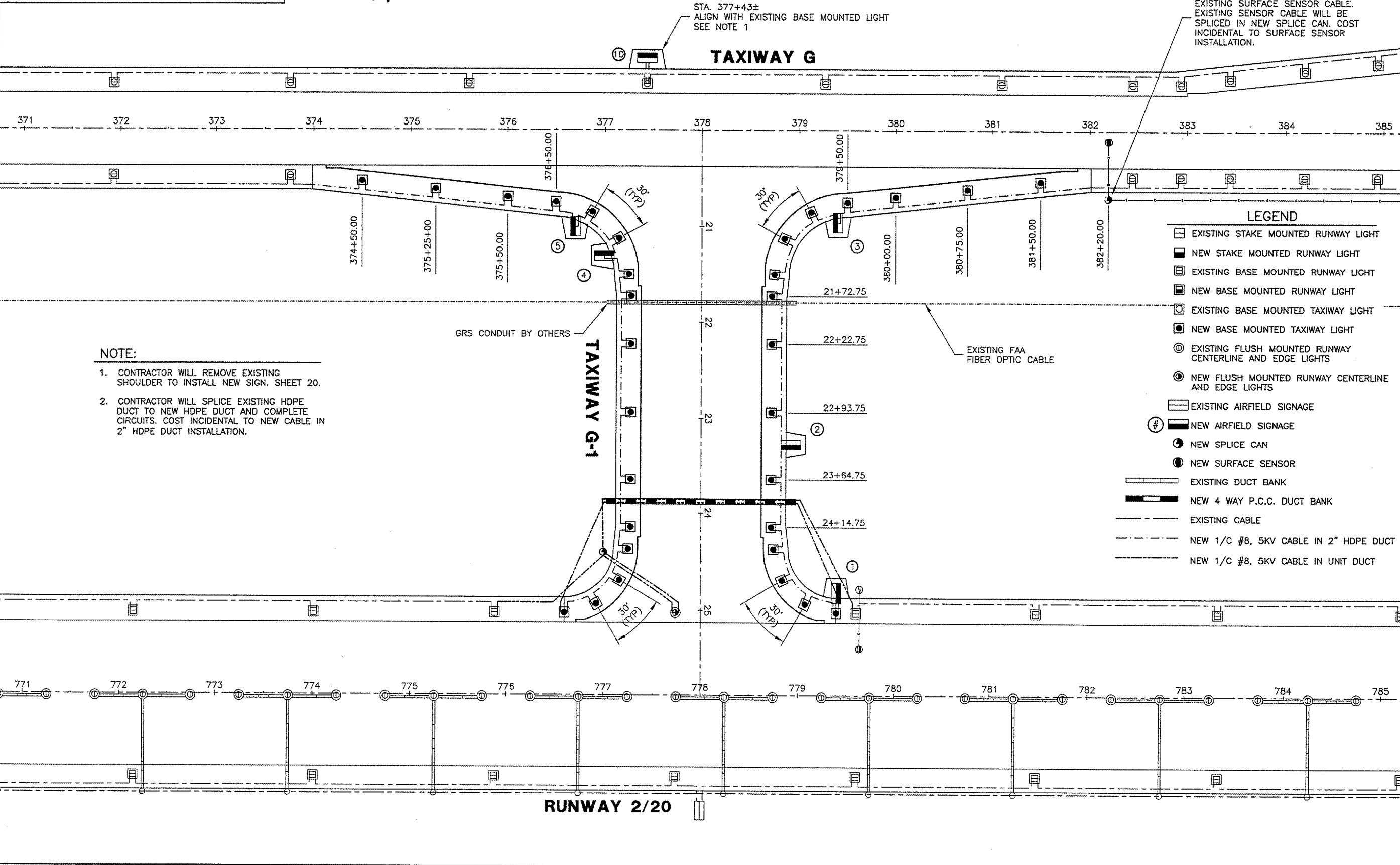
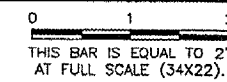


BL059

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 Clntinfo.dwg
 KEY.dwg
 BASE_PROPGEOD.dwg
 BASE_EXISTGEO.dwg
 BASE_EXISTELEC.dwg
 BASE_ELEC.dwg

REVISIONS

NUMBER	BY	DATE



LEGEND

- EXISTING STAKE MOUNTED RUNWAY LIGHT
- NEW STAKE MOUNTED RUNWAY LIGHT
- EXISTING BASE MOUNTED RUNWAY LIGHT
- NEW BASE MOUNTED RUNWAY LIGHT
- EXISTING BASE MOUNTED TAXIWAY LIGHT
- NEW BASE MOUNTED TAXIWAY LIGHT
- EXISTING FLUSH MOUNTED RUNWAY CENTERLINE AND EDGE LIGHTS
- NEW FLUSH MOUNTED RUNWAY CENTERLINE AND EDGE LIGHTS
- EXISTING AIRFIELD SIGNAGE
- NEW AIRFIELD SIGNAGE
- NEW SPLICE CAN
- NEW SURFACE SENSOR
- EXISTING DUCT BANK
- NEW 4 WAY P.C.C. DUCT BANK
- EXISTING CABLE
- NEW 1/C #8, 5KV CABLE IN 2" HDPE DUCT
- NEW 1/C #8, 5KV CABLE IN UNIT DUCT

NOTE:

1. CONTRACTOR WILL REMOVE EXISTING SHOULDER TO INSTALL NEW SIGN. SHEET 20.
2. CONTRACTOR WILL SPLICE EXISTING HDPE DUCT TO NEW HDPE DUCT AND COMPLETE CIRCUITS. COST INCIDENTAL TO NEW CABLE IN 2" HDPE DUCT INSTALLATION.

BLOOMINGTON-NORMAL AIRPORT AUTHORITY
CENTRAL ILLINOIS REGIONAL AIRPORT
BLOOMINGTON, ILLINOIS
CONSTRUCT TAXIWAY G-1
ELECTRICAL & LIGHTING PLAN

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CHECKED BY:	RLV
APPROVED BY:	JEF
DATE:	1/13/2006
JOB No:	05085-0300
ILLINOIS PROJECT	BMI-3452
A.I.P. PROJECT	3-17-0006-XX
SHEET	13 OF 33 SHEETS

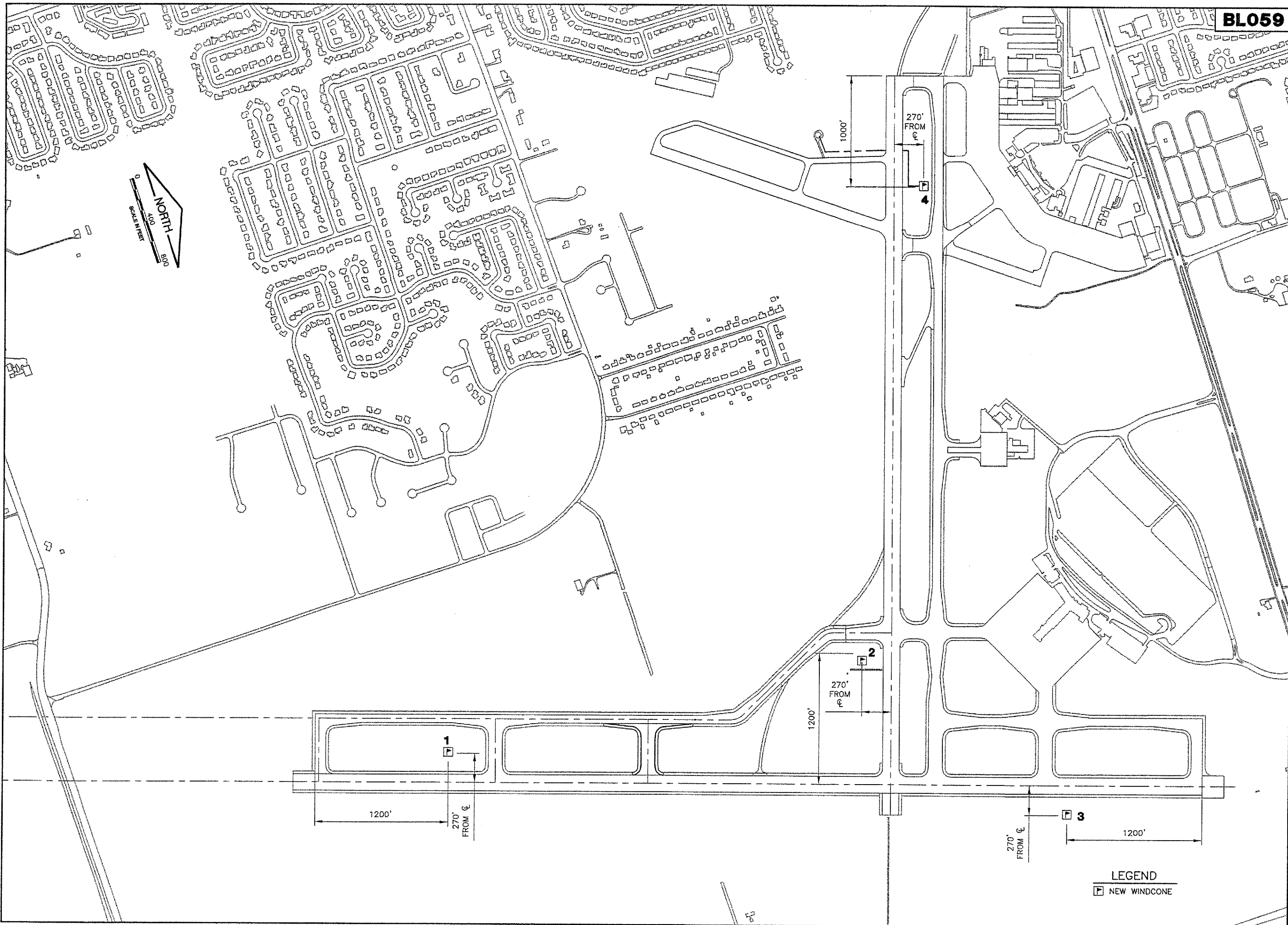
BL059

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LAYOUT: WINDCON
UPDATE BY: adraughan
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BASE_EXISTGEO.dwg
BASE_PROPGEOD.dwg
CL_STA.dwg
BASE_ELEC.dwg

REVISIONS

NUMBER	BY	DATE

0 1 2
THIS BAR IS EQUAL TO 2"
AT FULL SCALE (34X22).



**BLOOMINGTON-NORMAL AIRPORT AUTHORITY
CENTRAL ILLINOIS REGIONAL AIRPORT
BLOOMINGTON, ILLINOIS**

**CONSTRUCT TAXIWAY G-1
WIND CONE LAYOUT PLAN**

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APPROVED BY: JEF
DATE: 1/13/2006

JOB No: 05085-0300

ILLINOIS PROJECT BMI-3452
A.I.P. PROJECT 3-17-0006-XX

SHEET 14 OF 33 SHEETS

LEGEND
[Symbol] NEW WINDCONE

IMAGE FILES:

BLO59

K:\Bloomington\0508503\Draw\Sheets\
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 LAYOUT: WINDCONCABL1
 UPDATE BY: odraughan
 SURVEY BOOK #
 DATE: Fri 1/13/06 10:44am
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 BASE_PROPGE0.dwg
 BASE_EXISTGEO.dwg
 CL_STA.dwg

LEGEND

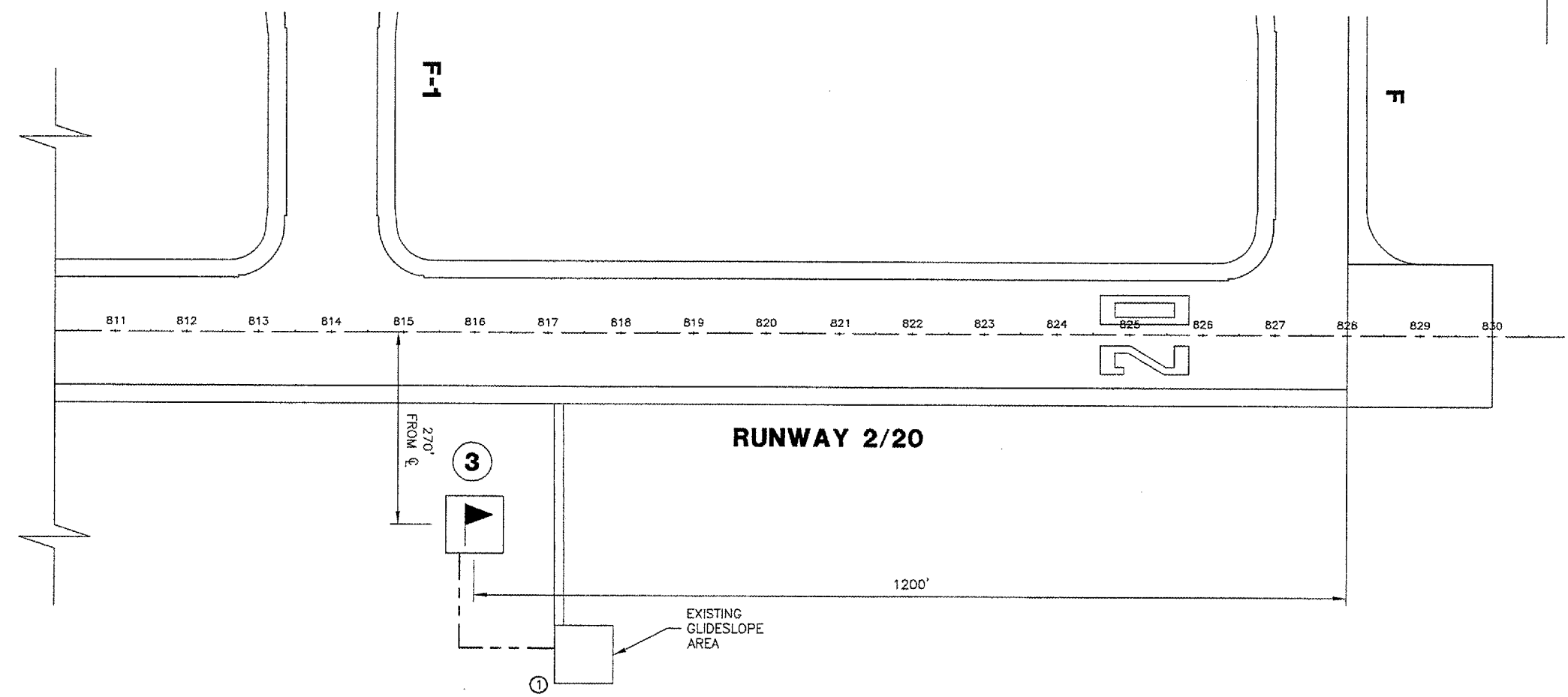
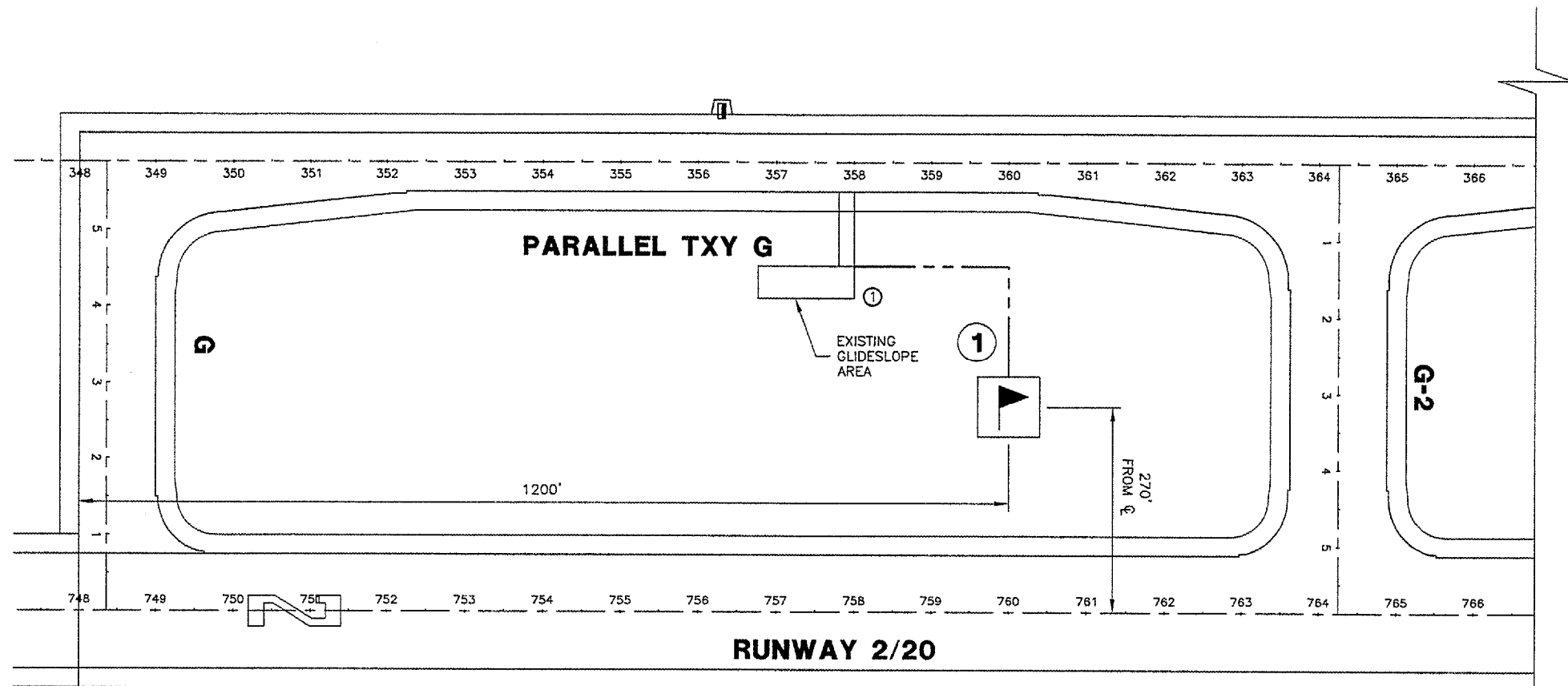
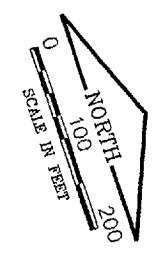
--- NEW WIND CONE POWER CABLE, 2-#8AWG COND., 1-#8AWG GND IN 3/4" UNIT DUCT

▶ NEW WINDCONE

①

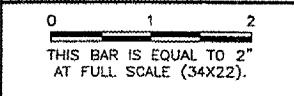
NOTE

① INSTALL UTILITY SERVICE AT GLIDESLOPE SHELTER BLDG., SEE WIND CONE DETAILS.



REVISIONS

NUMBER	BY	DATE



BLOOMINGTON-NORMAL AIRPORT AUTHORITY
CENTRAL ILLINOIS REGIONAL AIRPORT
BLOOMINGTON, ILLINOIS
CONSTRUCT TAXIWAY G-1
WIND CONE CABLING SHEET 1

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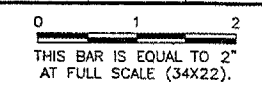
DESIGN BY:	TM
DRAWN BY:	DPA
CHECKED BY:	RLV
APPROVED BY:	JEF
DATE:	1/13/2006
JOB No:	05085-0300
ILLINOIS PROJECT	BMI-3452
A.I.P. PROJECT	3-17-0006-XX
SHEET	15 OF 33 SHEETS

BL059

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SURVEY BOOK #
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BASE_EXISTGEO.dwg
BASE_PROPGeo.dwg
CL_STA.dwg

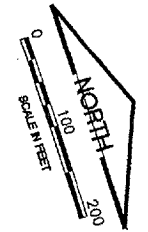
REVISIONS

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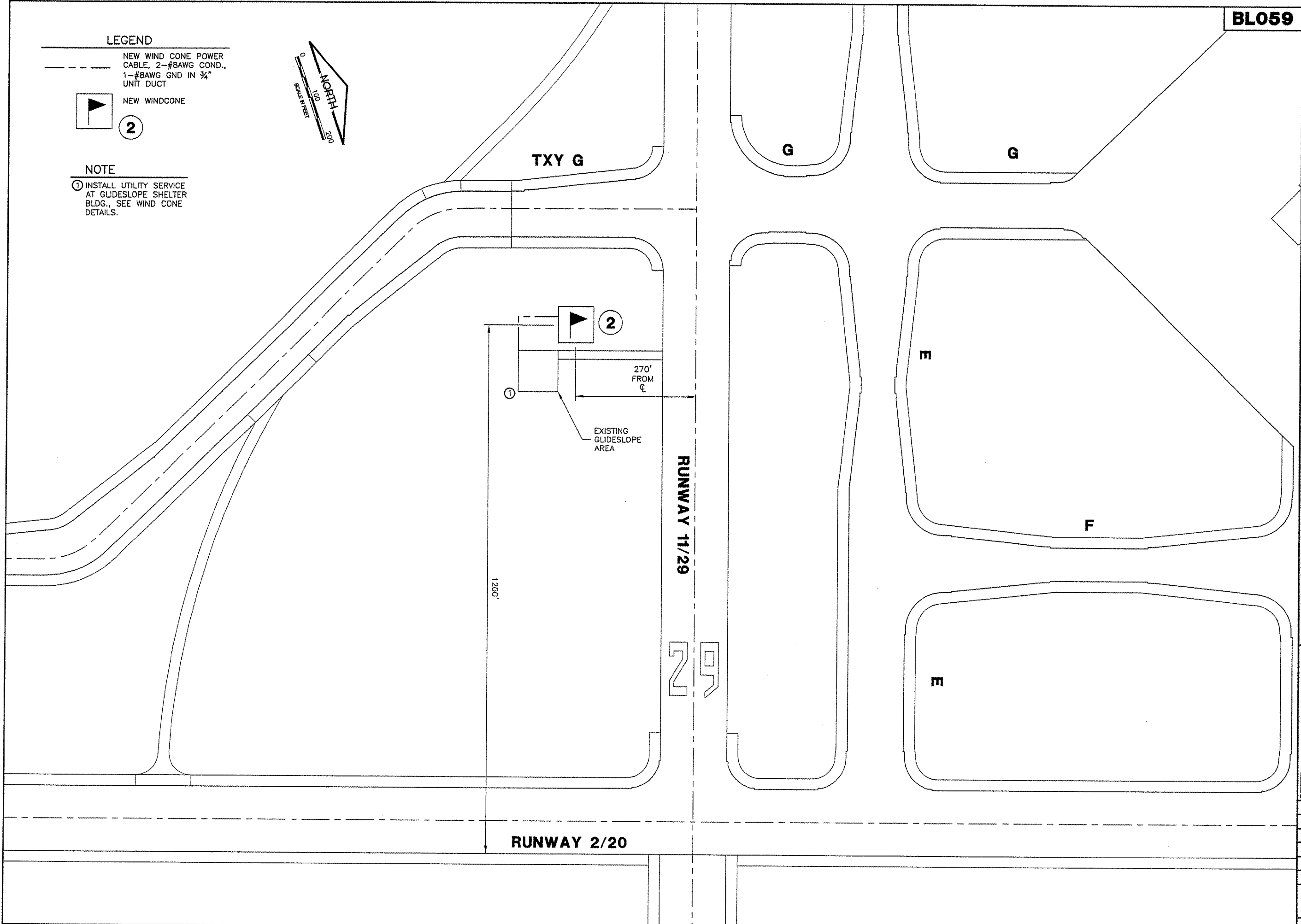
LEGEND

- NEW WIND CONE POWER CABLE, 2-#8AWG COND., 1-#8AWG GND IN 3/4" UNIT DUCT
- ▶ NEW WINDCONE
- ②



NOTE

- ① INSTALL UTILITY SERVICE AT GLIDESLOPE SHELTER BLDG., SEE WIND CONE DETAILS.



BLOOMINGTON-NORMAL AIRPORT AUTHORITY
CENTRAL ILLINOIS REGIONAL AIRPORT
BLOOMINGTON, ILLINOIS

CONSTRUCT TAXIWAY G-1
WIND CONE CABLING SHEET 2

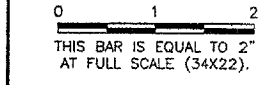
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ILLINOIS PROJECT	BMI-3452
A.I.P. PROJECT	3-17-0006-XX
SHEET	16 OF 33 SHEETS

BL059

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LAYOUT: WINDCONCABL3
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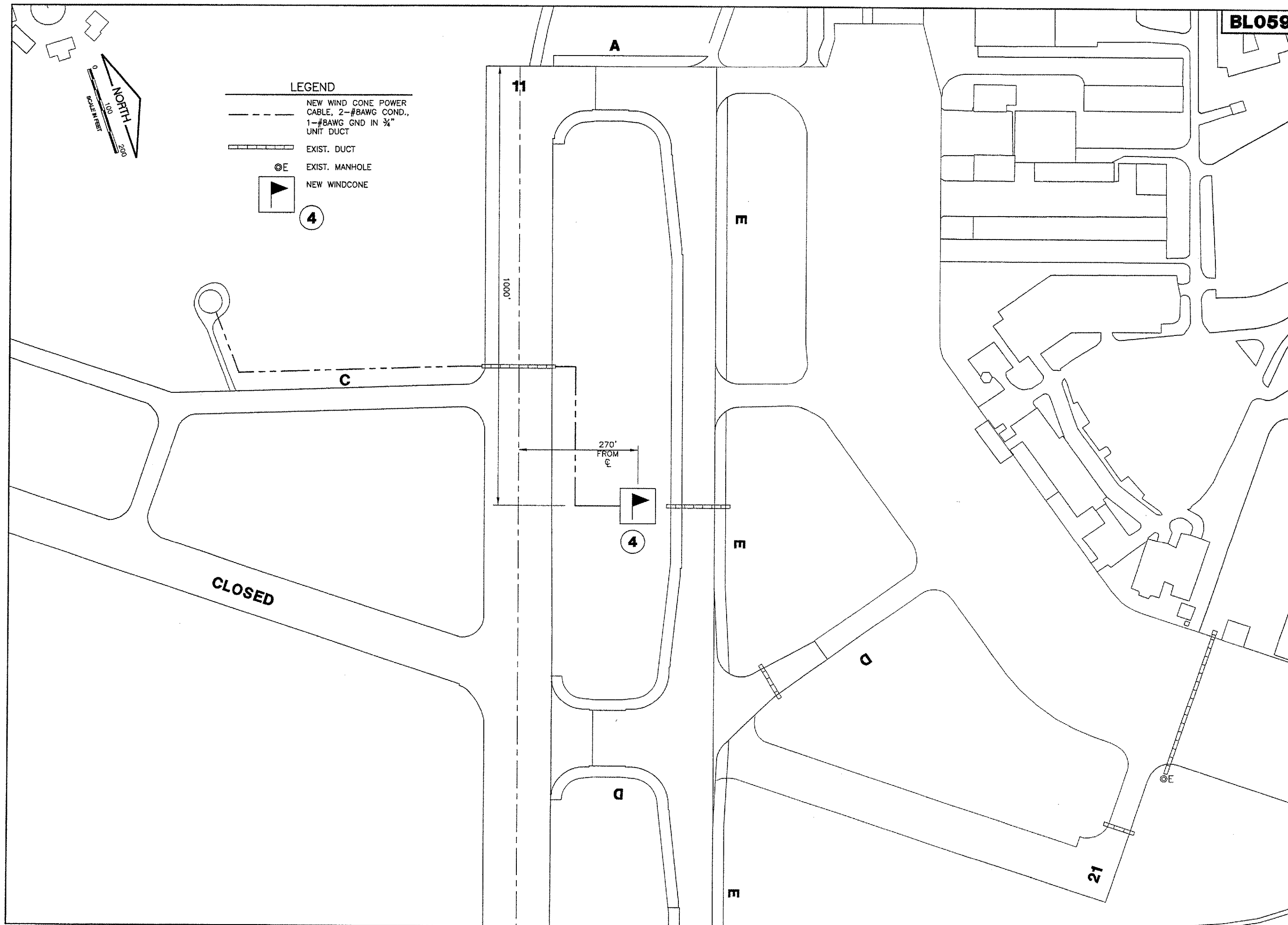
**BLOOMINGTON-NORMAL AIRPORT AUTHORITY
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BLOOMINGTON, ILLINOIS**

CONSTRUCT TAXIWAY G-1

WIND CONE CABLING SHEET 3

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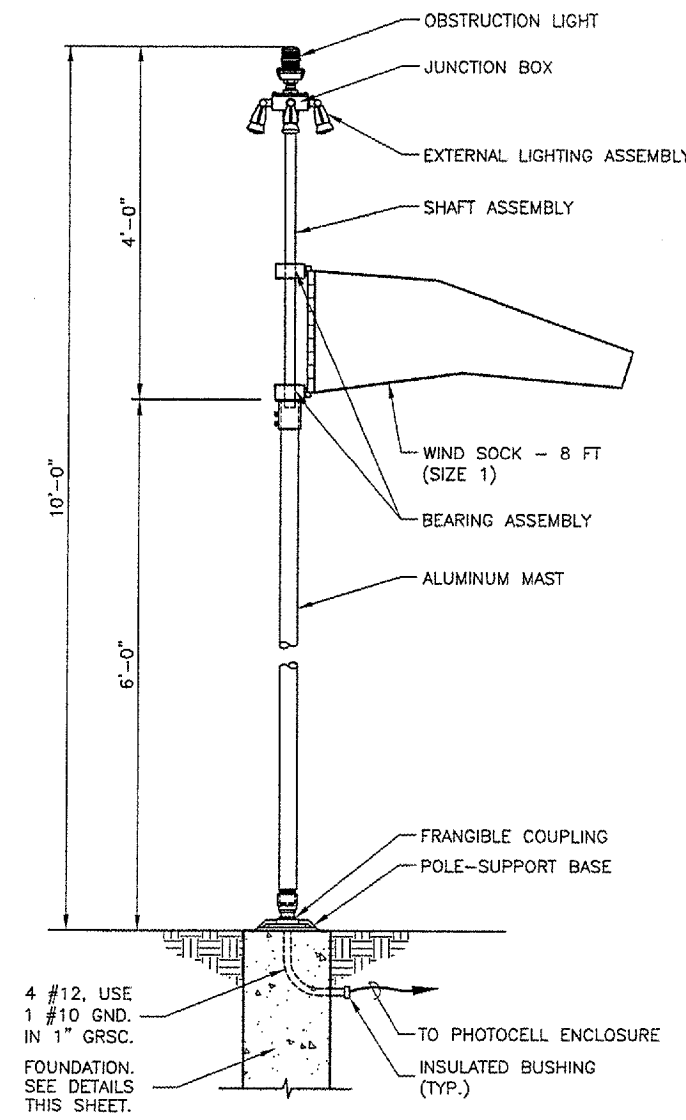
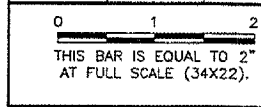
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DRAWN BY:	DPA
CHECKED BY:	RLV
APPROVED BY:	JEF
DATE:	1/13/2006
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ILLINOIS PROJECT	BMI-3452
A.I.P. PROJECT	3-17-0006-XX
SHEET	17 OF 33 SHEETS



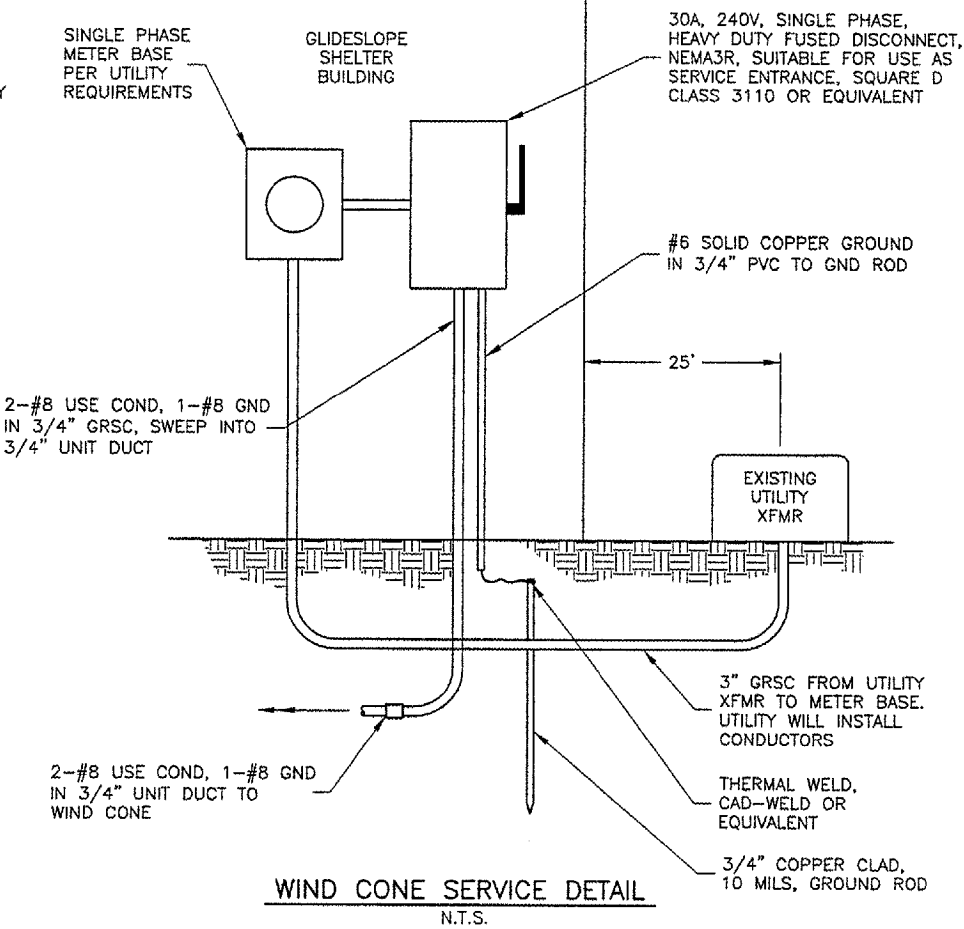
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 UPDATE BY: adraughan
 SURVEY BOOK #
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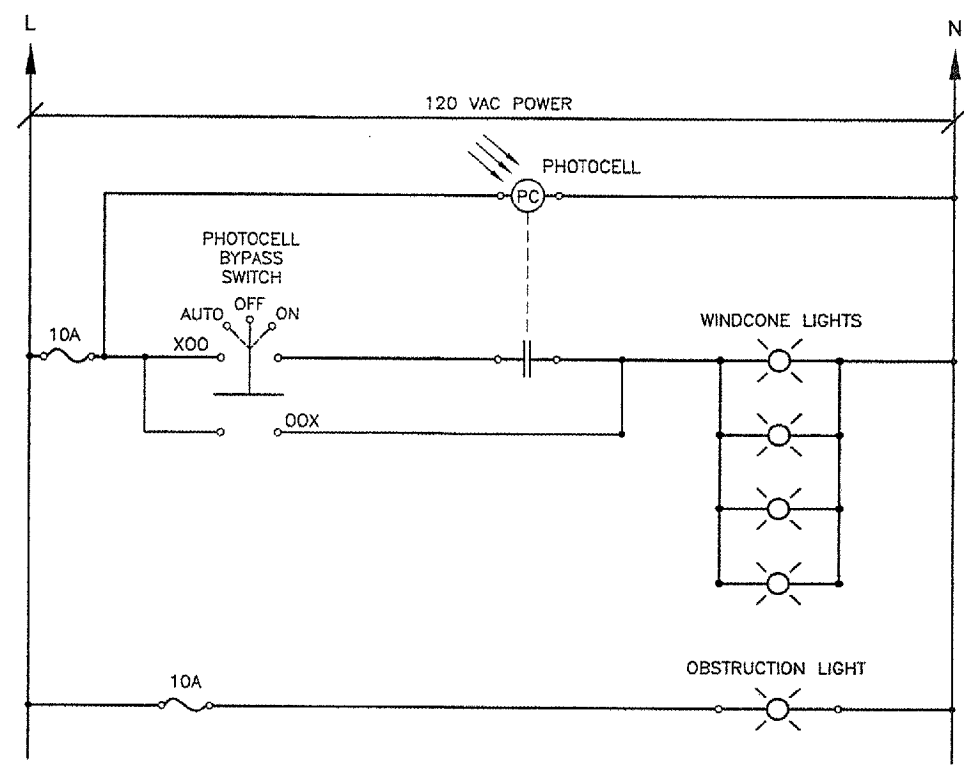
REVISIONS		
NUMBER	BY	DATE



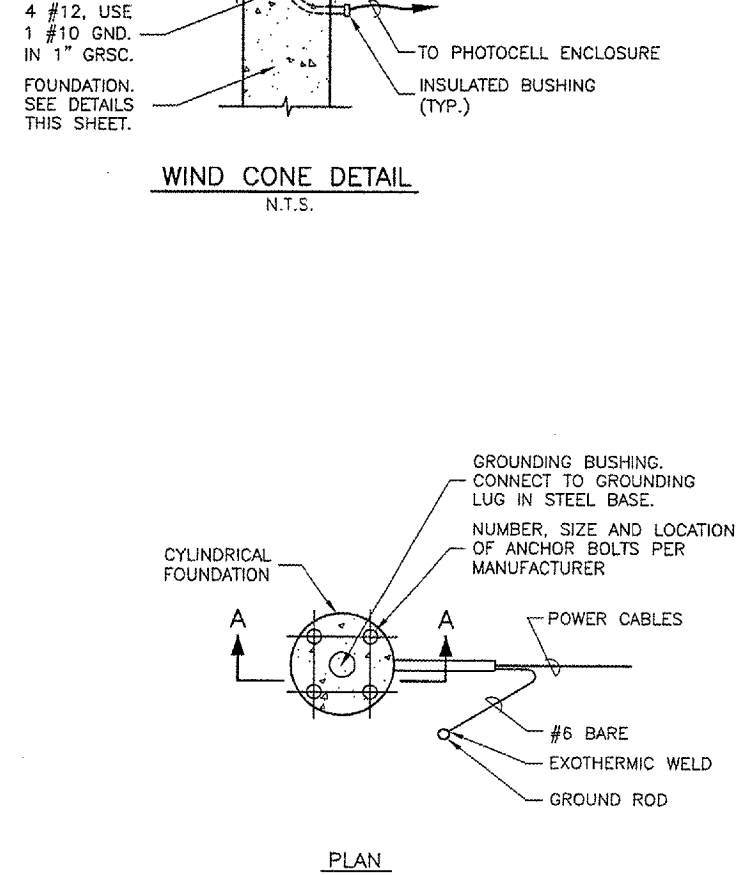
WIND CONE DETAIL
N.T.S.



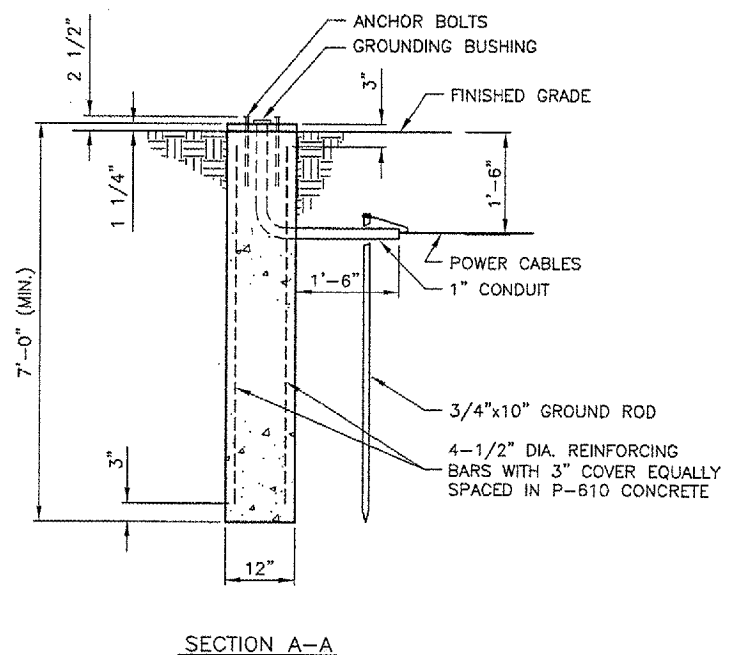
WIND CONE SERVICE DETAIL
N.T.S.



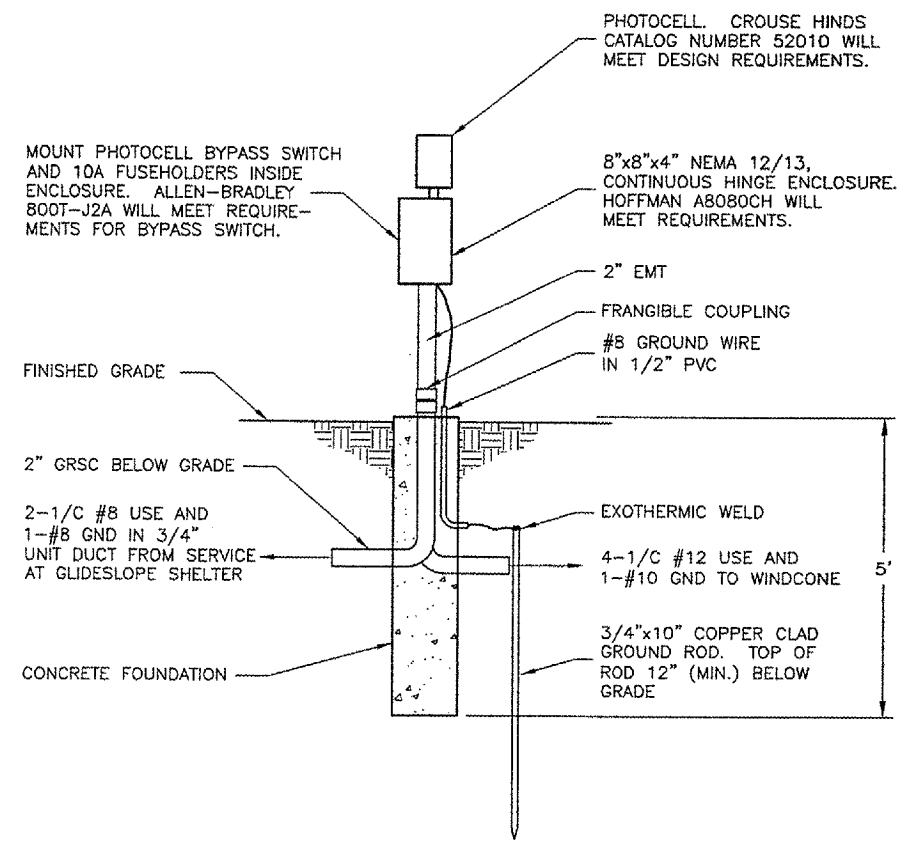
WIND CONE SCHEMATIC
N.T.S.



WIND CONE FOUNDATION
N.T.S.



SECTION A-A



WIND CONE PHOTOCELL DETAIL
N.T.S.

BLOOMINGTON-NORMAL AIRPORT AUTHORITY
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 BLOOMINGTON, ILLINOIS

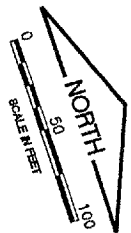
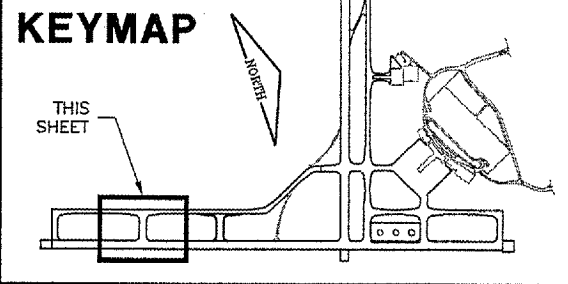
CONSTRUCT TAXIWAY G-1

WIND CONE DETAILS

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DATE:	1/13/2006
JOB No:	05085-0300

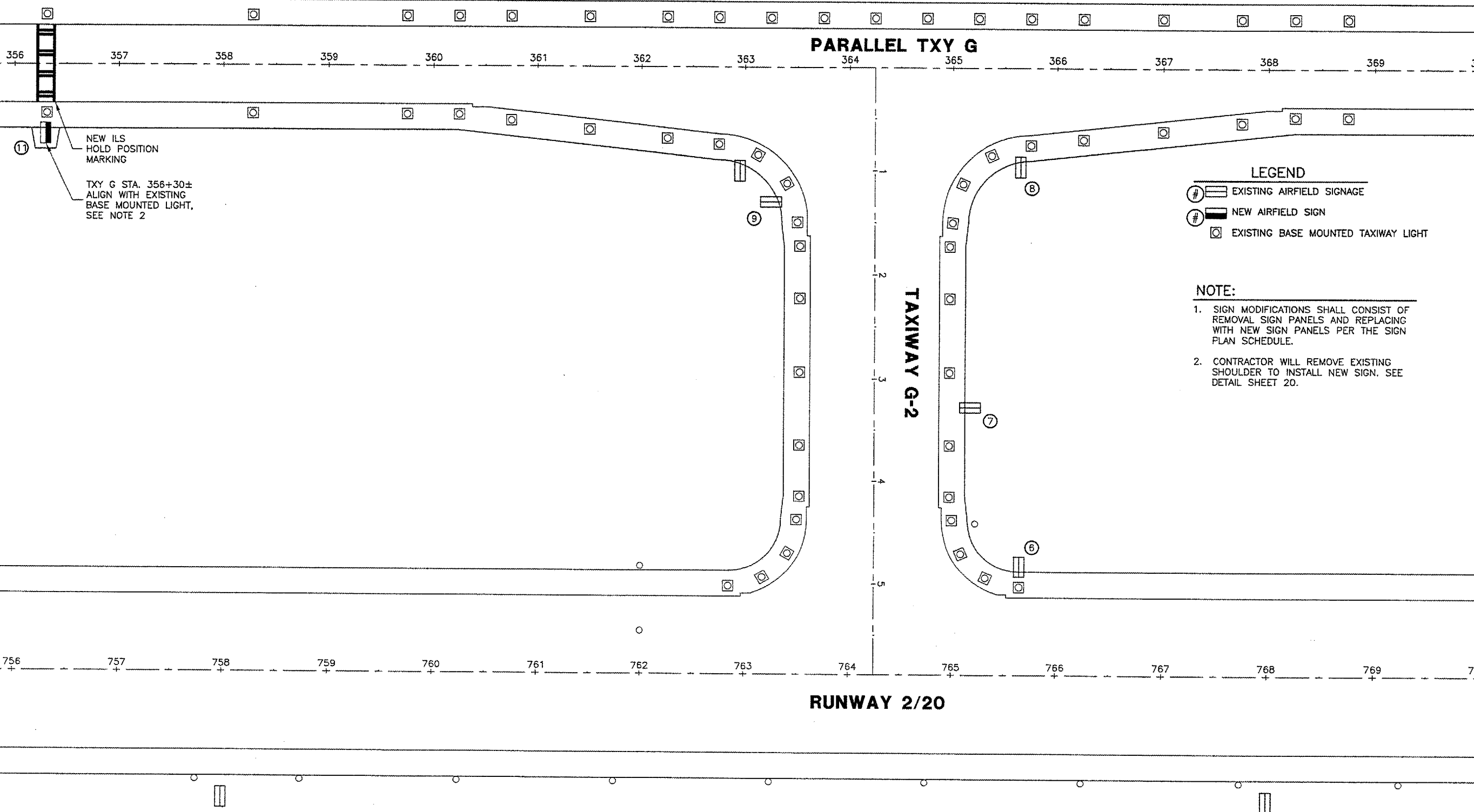
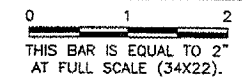
ILLINOIS PROJECT BMI-3452
 A.I.P. PROJECT 3-17-0006-XX



BL059

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 SURVEY BOOK #
 DATE: Fri 1/13/06 10:47am
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 BASE_EXISTGEO.dwg
 BASE_PROPGE0.dwg
 CL_STA.dwg
 KEY.dwg

REVISIONS		
NUMBER	BY	DATE



NEW ILS HOLD POSITION MARKING
 TXY G STA. 356+30±
 ALIGN WITH EXISTING
 BASE MOUNTED LIGHT,
 SEE NOTE 2

- LEGEND**
- # [Symbol] EXISTING AIRFIELD SIGNAGE
 - # [Symbol] NEW AIRFIELD SIGN
 - [Symbol] EXISTING BASE MOUNTED TAXIWAY LIGHT

- NOTE:**
1. SIGN MODIFICATIONS SHALL CONSIST OF REMOVAL SIGN PANELS AND REPLACING WITH NEW SIGN PANELS PER THE SIGN PLAN SCHEDULE.
 2. CONTRACTOR WILL REMOVE EXISTING SHOULDER TO INSTALL NEW SIGN. SEE DETAIL SHEET 20.

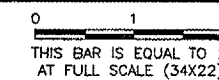
BLOOMINGTON-NORMAL AIRPORT AUTHORITY
CENTRAL ILLINOIS REGIONAL AIRPORT
BLOOMINGTON, ILLINOIS
CONSTRUCT TAXIWAY G-1
SIGN MODIFICATIONS FOR TAXIWAY G-2

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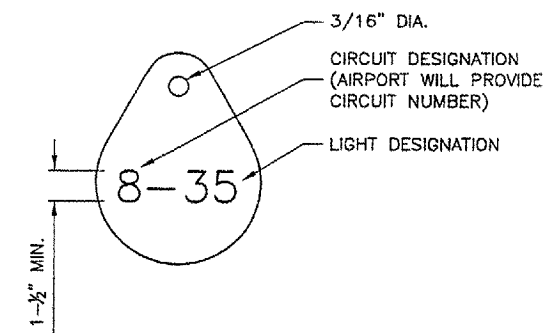
DESIGN BY:	JEF
DRAWN BY:	DPA
CHECKED BY:	RLV
APPROVED BY:	JEF
DATE:	1/13/2006
JOB No:	05085-0300
ILLINOIS PROJECT	BMI-3452
A.I.P. PROJECT	3-17-0006-XX
SHEET	19 OF 33 SHEETS

REVISIONS		
NUMBER	BY	DATE

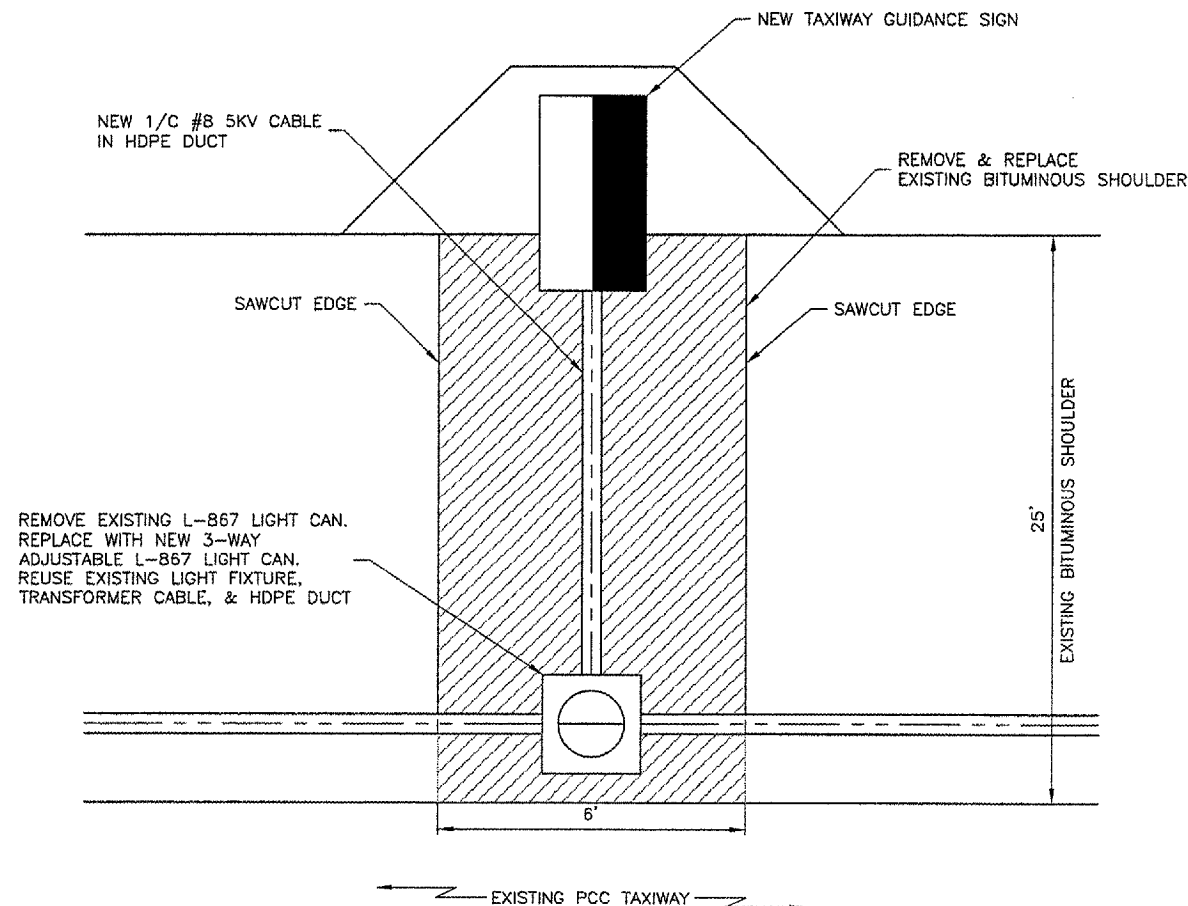


NOTES

1. INSTALL A NONCORROSIVE DISC OF 2" MINIMUM DIAMETER WITH THE NUMBER PERMANENTLY STAMPED, CUT OUT, OR ENGRAVED UNDER THE HEAD OF THE BASE PLATE BOLT OR ATTACHED TO LIGHT FLANGE WITH SET SCREW.
2. LEGENDS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. CONTRACTOR TO COORDINATE LEGEND WITH AIRPORT.
3. THE CONTRACTOR SHALL NUMBER THE EXISTING/PROPOSED LIGHTS AND SIGNS IN EACH CIRCUIT STARTING AT THE HOMERUN CONTINUING AROUND THE ENTIRE CIRCUIT BACK TO THE HOMERUN.
4. AIRFIELD SIGNS SHALL BE TAGGED & NUMBERED.



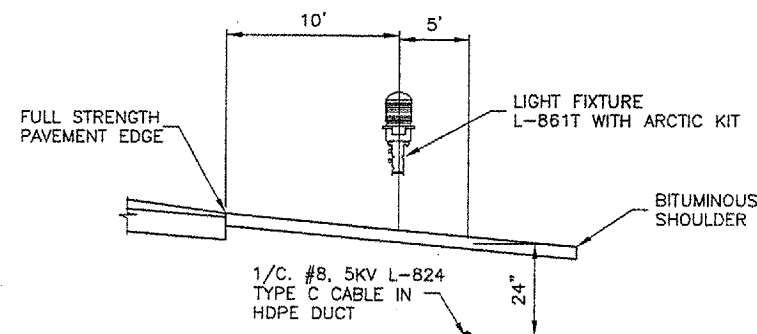
LIGHT IDENTIFICATION DETAIL
N.T.S.



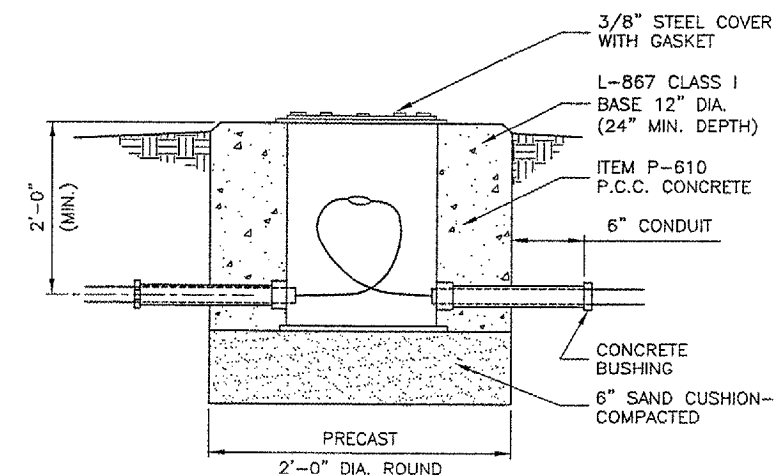
NEW SIGN IN EXISTING PAVED SHOULDER
N.T.S.

NOTES

1. COST OF REMOVAL OF BITUMINOUS SHOULDER WILL BE PAID UNDER ITEM AR401900 REMOVE BITUMINOUS PAVEMENT.
2. COST OF REPLACING BITUMINOUS SHOULDER WILL BE PAID FOR UNDER ITEM AR201504 BITUMINOUS BASE COURSE.
3. CONTRACTOR WILL REMOVE EXISTING LED TAXIWAY EDGE LIGHT AND TRANSFORMER. CONTRACTOR WILL BE RESPONSIBLE FOR LED FIXTURE, TRANSFORMER CABLE, HDPE, & ALL OTHER ITEMS ASSOCIATED WITH REMOVAL OF EXISTING LIGHT CAN AND INSTALLATION OF NEW ADJUSTABLE LIGHT CAN. DAMAGE TO THE ABOVE REFERENCED ITEMS DURING THE CONTRACTOR'S OPERATIONS WILL RESULT IN REPLACEMENT OF THE ITEM AT THE CONTRACTOR'S EXPENSE.
4. REMOVAL OF EXISTING LIGHT BASES WILL BE PER EACH.
5. INSTALLATION OF NEW THREE WAY ADJUSTABLE LIGHT BASES WILL BE PAID PER EACH.
6. REMOVAL AND REINSTALLATION OF LED TAXIWAY LIGHT, TRANSFORMERS, CABLE, & HDPE DUCT WILL BE INCIDENTAL TO THE INSTALLATION OF NEW ADJUSTABLE LIGHT BASES.
7. RECOMPACTION OF AGGREGATE BASE COURSE WILL BE INCIDENTAL TO THE REPLACEMENT OF BITUMINOUS SHOULDER.



LIGHT AND CABLE INSTALLATION DETAIL
N.T.S.



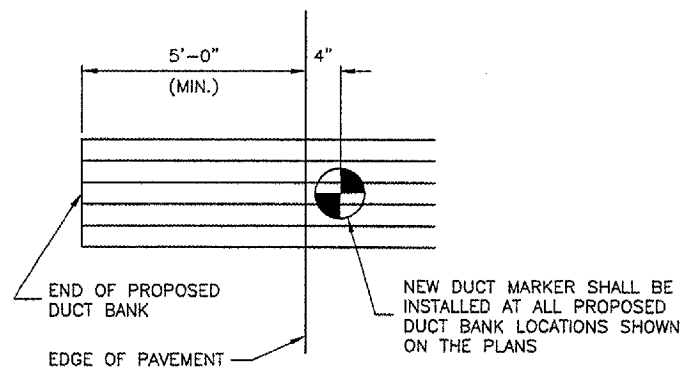
SPLICE CAN DETAIL
N.T.S.

BLOOMINGTON-NORMAL AIRPORT AUTHORITY
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BLOOMINGTON, ILLINOIS
CONSTRUCT TAXIWAY G-1
ELECTRICAL DETAILS SHEET 1

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ILLINOIS PROJECT	BMI-3452
A.I.P. PROJECT	3-17-0006-XX
SHEET	20 OF 33 SHEETS

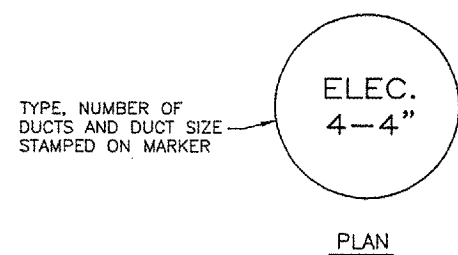


END OF PROPOSED
 DUCT BANK

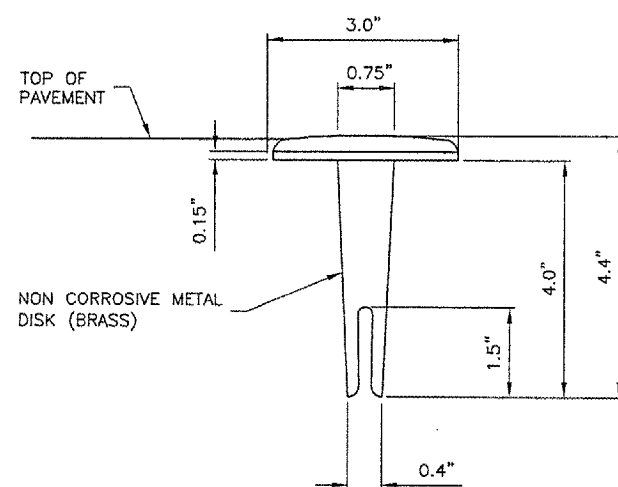
NEW DUCT MARKER SHALL BE
 INSTALLED AT ALL PROPOSED
 DUCT BANK LOCATIONS SHOWN
 ON THE PLANS

DUCT MARKERS SHALL BE RECESSED
 AND GROUTED INTO THE PAVEMENTS.

MARKER PLACEMENT



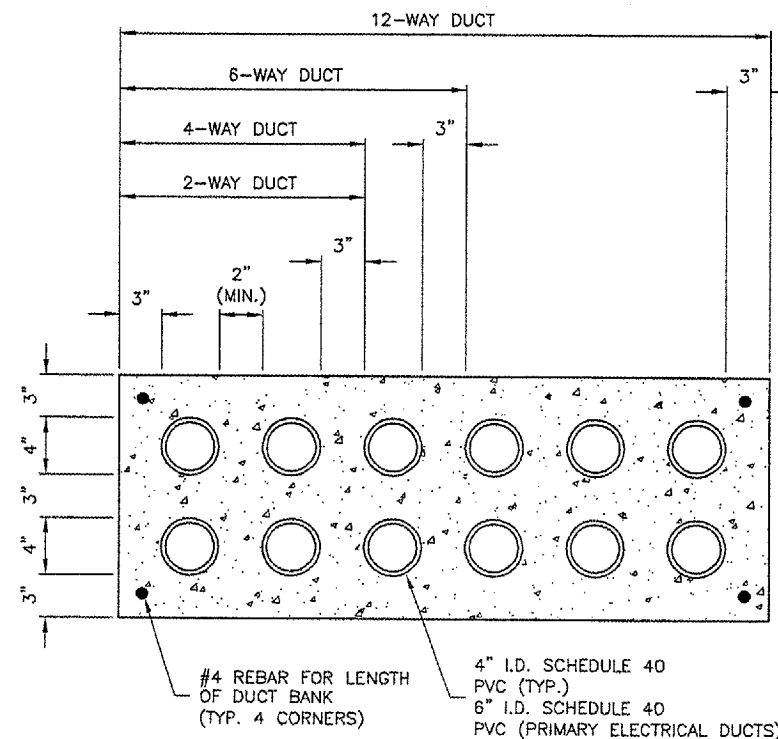
PLAN



SECTION

DUCT MARKER DETAILS

N.T.S.



DUCT BANK DETAIL

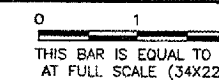
N.T.S.

NOTES

- DIMENSIONS SHOWN ARE MINIMUM.
- TOP OF CONCRETE ENCASEMENT TO BE NOT LESS THAN 18" BELOW FINISHED SUBGRADE.
- DUCT CONCRETE SHALL BE ITEM 610 STRUCTURAL P.C.C. CONCRETE.
- ALL DUCT SHALL BE 4" INSIDE DIAMETER.
- LOCATIONS SHOWN ARE APPROXIMATE. DUCT BANKS SHALL BE INSTALLED AT LOCATIONS DESIGNATED BY THE ENGINEER.
- CONTRACTOR SHALL INSTALL DUCT BANKS AT A DEPTH WHICH WILL NOT CONFLICT WITH ELEVATION SENSITIVE UTILITIES.
- A PULL WIRE SHALL BE PROVIDED IN EACH UNUSED CONDUIT. UNUSED DUCT SHALL BE SEALED WITH PVC PLUGS/CAPS TO THE SATISFACTION OF THE ENGINEER.
- DUCT BANKS SHALL EXTEND A MINIMUM OF 5' BEYOND THE PROPOSED EDGE OF PAVEMENT.

REVISIONS

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BLOOMINGTON-NORMAL AIRPORT AUTHORITY
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 BLOOMINGTON, ILLINOIS

CONSTRUCT TAXIWAY G-1
 ELECTRICAL DETAILS SHEET 2

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APPROVED BY: JEF

DATE: 1/13/2006

JOB No: 05085-0300

ILLINOIS PROJECT BMI-3452

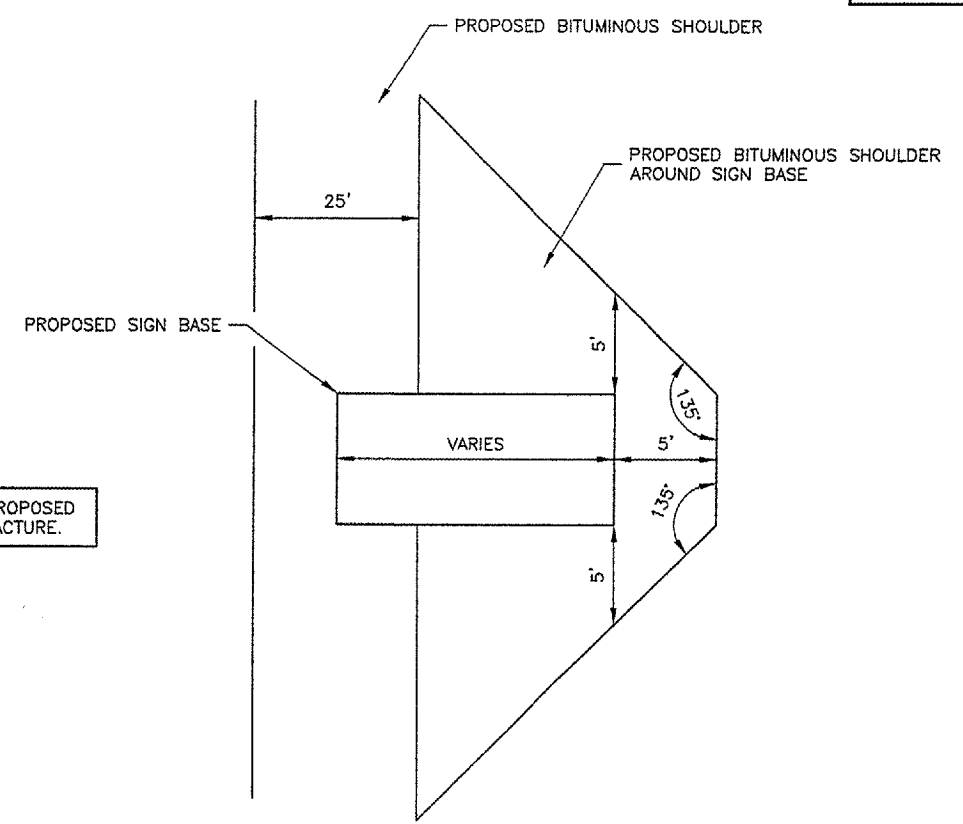
A.I.P. PROJECT 3-17-0006-XX

SHEET 21 OF 33 SHEETS

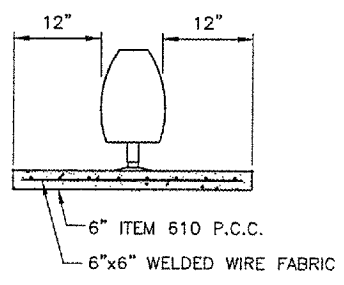
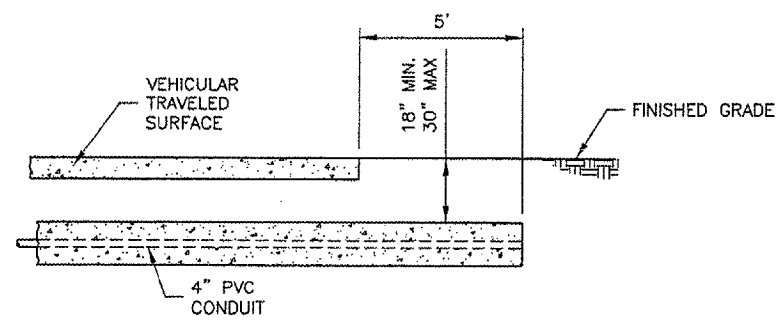
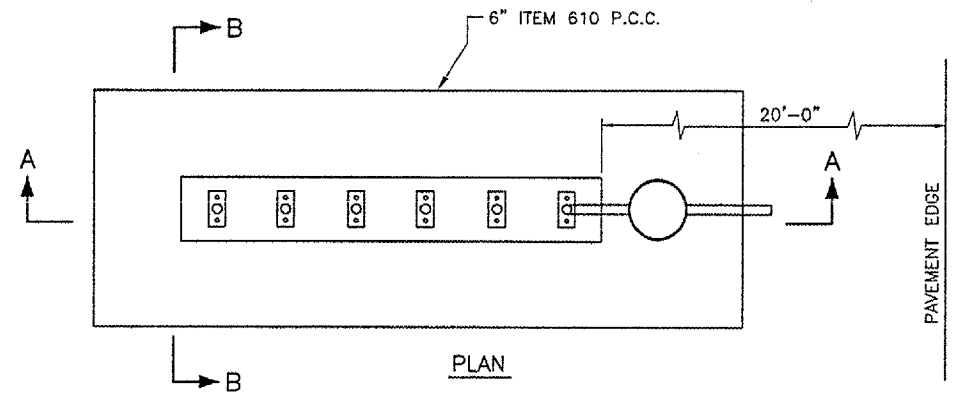
SIGN SCHEDULE						
SIGN NO.	SIDE	PROPOSED SIGN LEGEND	WHITE LEGEND WITH BLACK OUTLINE ON RED BACKGROUND	BLACK LEGEND ON YELLOW BACKGROUND	YELLOW LEGEND ON BLACK BACKGROUND	PROPOSED NUMBER OF CHARACTERS
1	N S	G1 →		G1 →		3
2	W E	G1 20-2 G1	20-2		G1	6
3	N S	← G1 TERM ↑		← G1 TERM ↑	G	5
4	W E	G1 ← G →		← G →	G1	3
5	N S	2 ↑ G		2 ↑	G	2
6	N S	G2 → (M)		G2 → (M)		3
7	W E	G2 (M) 20-2 (E) G2 (M)	20-2 (E)		G2 (M)	6
8	N S	← G2 (E) TERM ↑ (E)		← G2 (M) TERM ↑ (E)	G (E)	5
9	W E	G2 (M) ← G → (E)		← G → (E)	G2 (M)	3
10	W E	⊕	⊕			1
11	N S	ILS	ILS	ILS		3

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH PROPOSED LEGENDS FOR APPROVAL PRIOR TO STARTING MANUFACTURE.

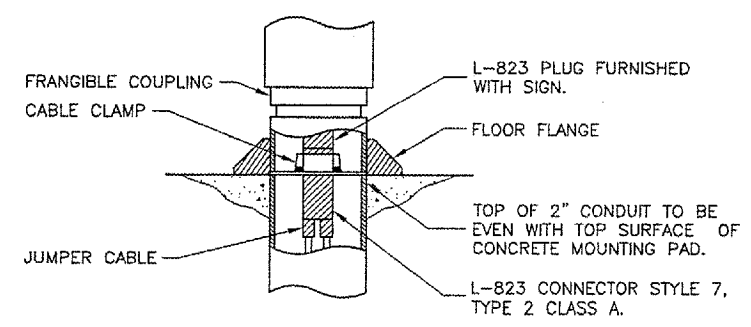
(E) - EXISTING SIGN PANEL TO REMAIN
 (M) - MODIFIED SIGN PANEL ON EXISTING SIGN



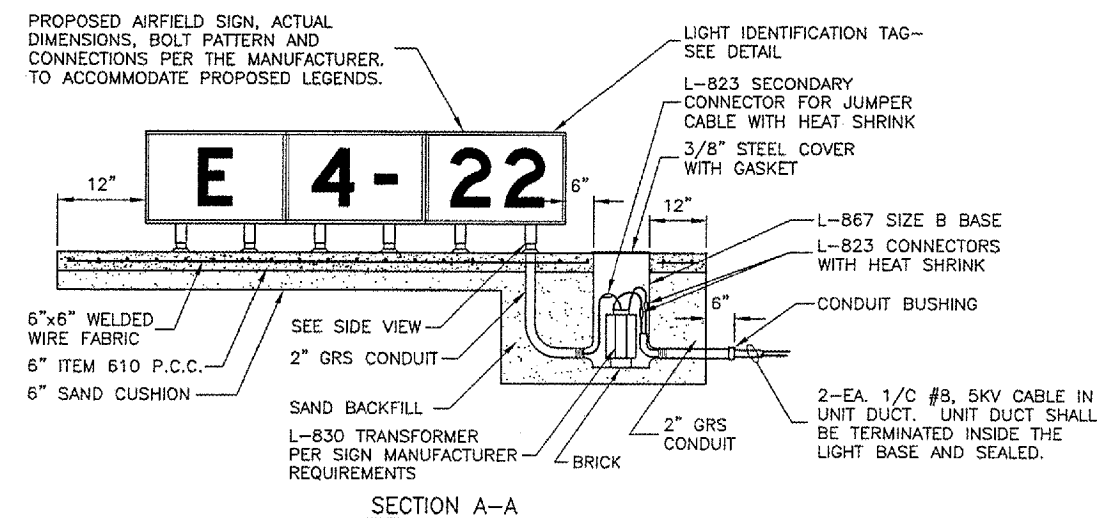
BITUMINOUS SHOULDER AROUND SIGN BASE - DETAIL
 N.T.S.



SECTION B-B



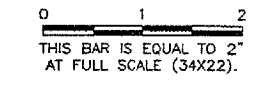
ELECTRICAL CONNECTION DETAIL
 N.T.S.



L-858 AIRFIELD SIGN DETAILS
 N.T.S.

- NOTES**
1. TRANSFORMER WATTAGE SHALL BE AS REQUIRED BY SIGN MANUFACTURER.
 2. SIGN LEGEND SHALL BE AS SHOWN IN THE PLANS.
 3. SIGNS SHALL BE SIZE 1 STYLE 2, CLASS 2.

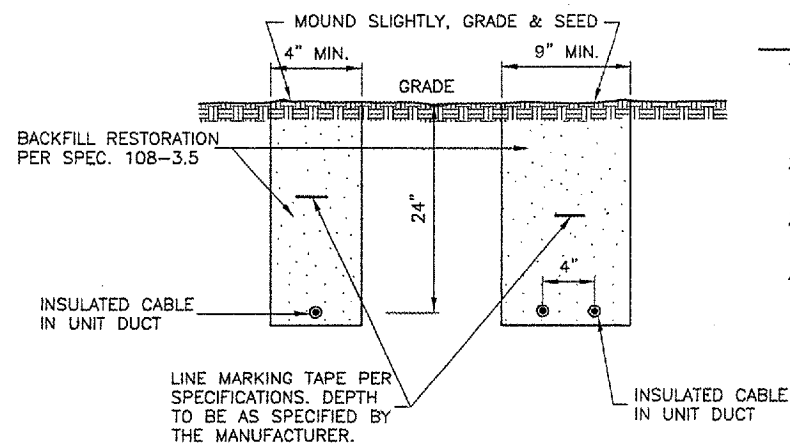
REVISIONS		
NUMBER	BY	DATE



BLOOMINGTON-NORMAL AIRPORT AUTHORITY
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BLOOMINGTON, ILLINOIS
CONSTRUCT TAXIWAY G-1
ELECTRICAL DETAILS SHEET 3

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APPROVED BY:	JEF
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JOB No:	05085-0300
ILLINOIS PROJECT	BMI-3452
A.I.P. PROJECT	3-17-0006-XX
SHEET	22 OF 33 SHEETS

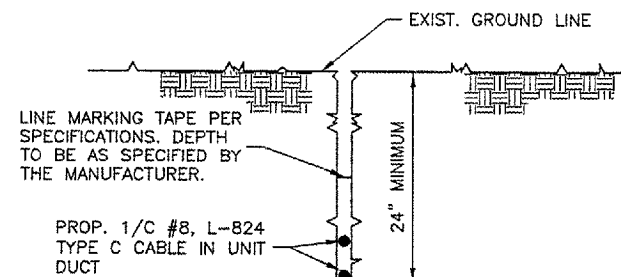


TRENCH DETAIL
N.T.S.

NOTES

1. TRENCHES WITH MORE THAN 2 CABLES SHALL BE INCREASED 3" IN WIDTH FOR EACH ADDITIONAL CABLE. IF SPECIFIED ON PLANS, TWO PARALLEL TRENCHES MAY BE CONSTRUCTED.
2. DEPTH OF TRENCHES SHALL BE AS SHOWN ABOVE UNLESS OTHERWISE SPECIFIED ON THE PLANS.
3. SAND BACKFILL SHALL BE USED IF THE EXISTING SOIL DOES NOT MEET THE BACKFILL REQUIREMENTS.
4. ALL DISTURBED SURFACES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION. COST IS INCIDENTAL TO ITEM 108.

NOTE: AT CONTRACTOR'S OPTION, CABLE PLOWING MAY BE USED IN LIEU OF TRENCHING



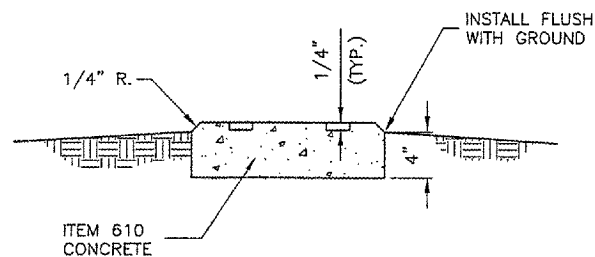
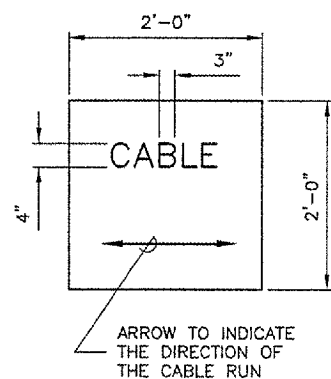
NOTE: WHERE TWO UNIT DUCTS ARE TO BE INSTALLED, CONTRACTOR MAY PLOW UNIT DUCTS SEPERATELY (SIDE BY SIDE)

CABLE IN UNIT-DUCT - PLOWED
N.T.S.

REVISIONS

NUMBER	BY	DATE

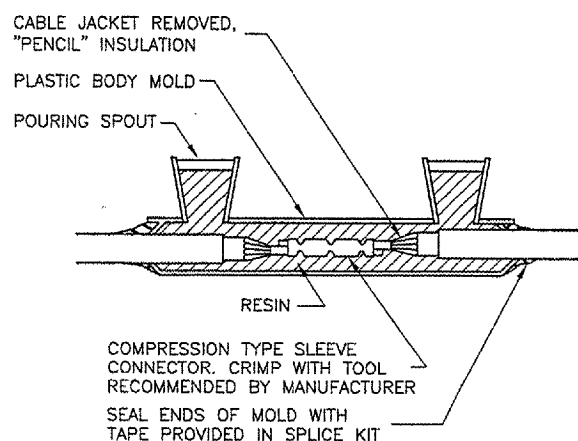
0 1 2
 THIS BAR IS EQUAL TO 2" AT FULL SCALE (34x22).



TURF CABLE / SPLICE MARKER
N.T.S.

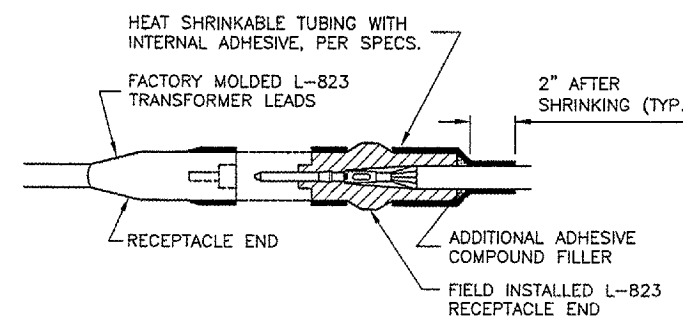
NOTES

1. CABLE MARKERS SHALL BE INSTALLED AT ALL BENDS AND EVERY 200' ALONG THE HOMERUN.
2. ITEM 610 CONCRETE SHALL BE USED.
3. ALL EXPOSED EDGES SHALL BE EDGED WITH A 1/4" RADIUS TOOL.
4. THE COST OF FURNISHING AND INSTALLING NEW MARKERS SHALL BE INCIDENTAL TO THE ASSOCIATED ITEMS.
5. 0.049 CU. YD. CONCRETE PER MARKER.
6. A MARKER CONFORMING TO THIS DETAIL MARKED "SPLICE" SHALL BE INSTALLED AT ALL SPLICE LOCATIONS NOT IN LIGHT CANS OR MANHOLES.



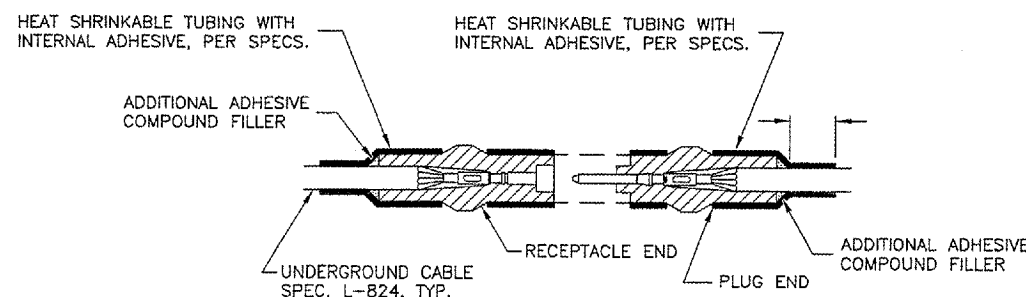
FOR IN-LINE CONNECTIONS OF EXISTING CABLES CUT DURING CONSTRUCTIONS.

TYPE A



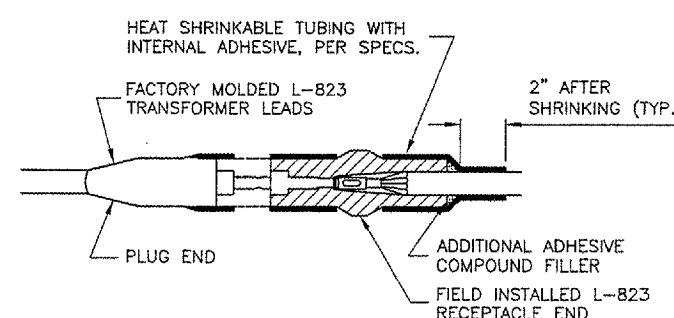
FOR SPLICES AT TAXIWAY LIGHTS AND SIGNS.

TYPE C



NOT TO BE USED IN THIS PROJECT UNLESS OTHERWISE DIRECTED BY ENGINEER

TYPE B



FOR SPLICES AT TAXIWAY LIGHTS AND SIGNS.

TYPE D

CABLE SPLICES

N.T.S.

NOTES

1. INSIDE DIAMETER OF CONNECTOR SHALL PROPERLY MATCH THE OUTSIDE DIAMETER OF CABLE.
2. THE COST OF FURNISHING AND INSTALLING ALL SPLICE MATERIALS SHALL BE INCIDENTAL TO THE ASSOCIATED CABLE ITEMS.
3. THE CONTRACTOR SHALL HAVE A MINIMUM OF TWO (2) TYPE A SPLICE KITS ON THE JOB SITE AT ALL TIMES FOR EMERGENCY REPAIRS.

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CONSTRUCT TAXIWAY G-1

ELECTRICAL DETAILS SHEET 4

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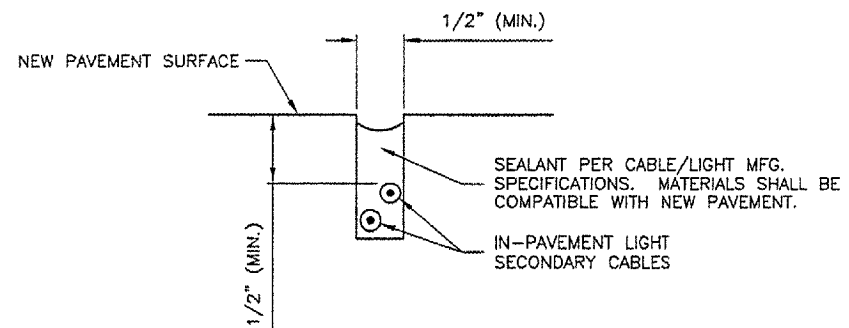
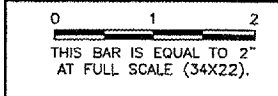
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CHECKED BY:	RLV
APPROVED BY:	JEF
DATE:	1/13/2006
JOB No:	05085-0300

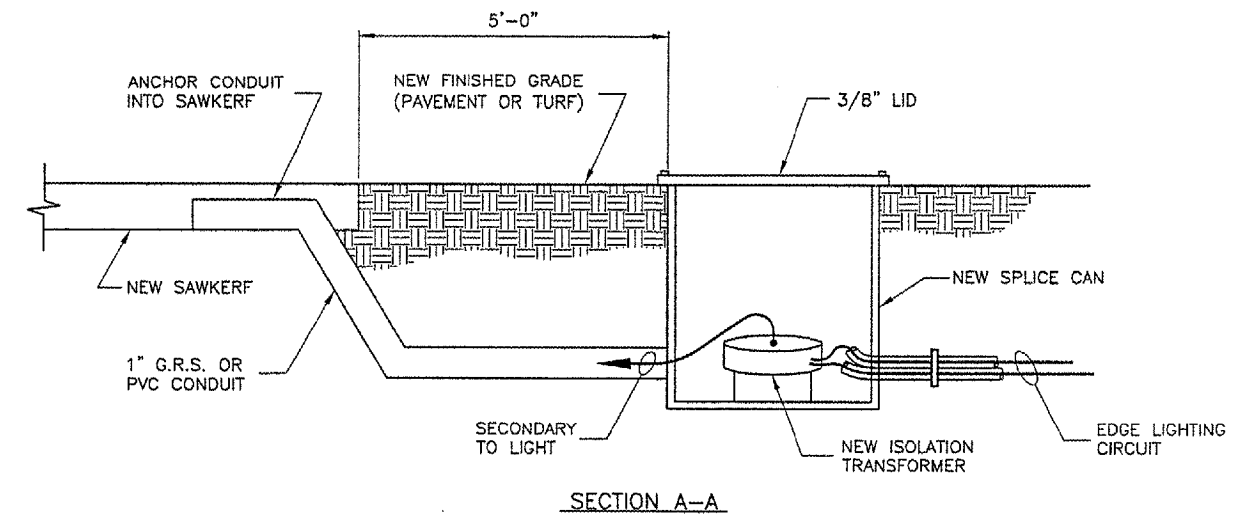
ILLINOIS PROJECT BMI-3452
 A.I.P. PROJECT 3-17-0006-XX

REVISIONS		
NUMBER	BY	DATE

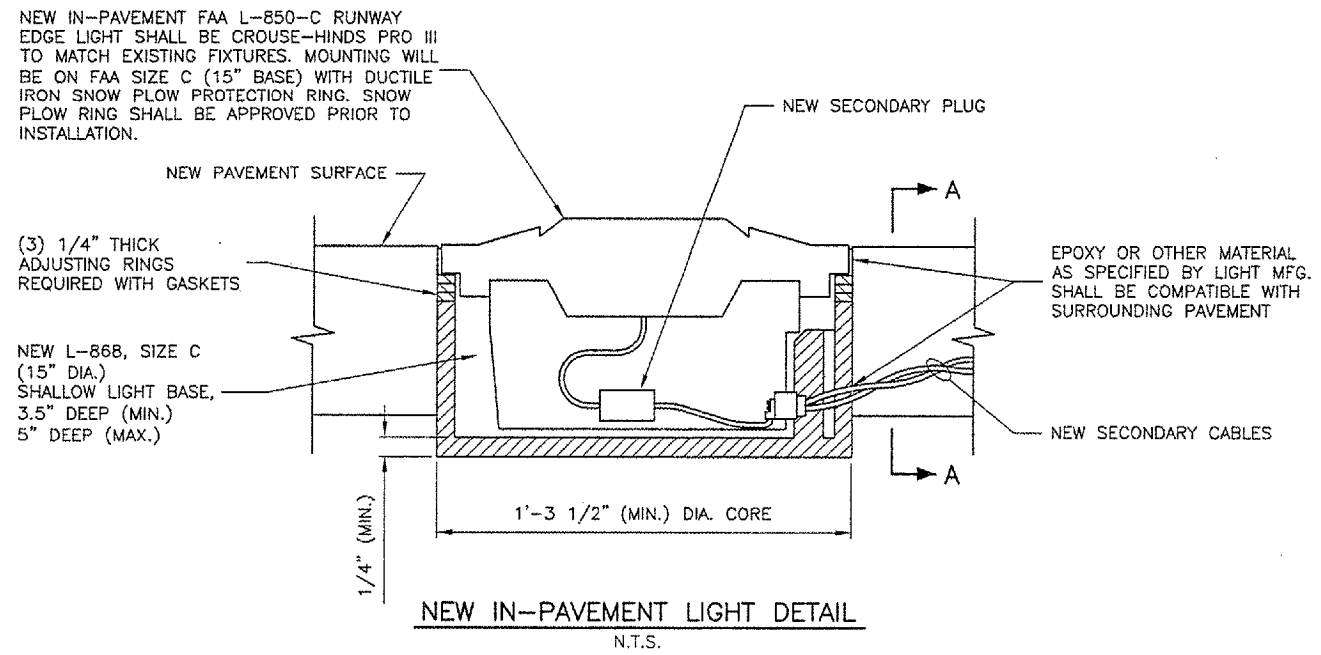


SAWKERF SHALL UTILIZE NEW P.C.C. PAVEMENT JOINTS WHERE APPLICABLE. SAW KERF LOCATION SHALL BE APPROVED BY THE AIRPORT PRIOR TO START OF INSTALLATION OPERATIONS.

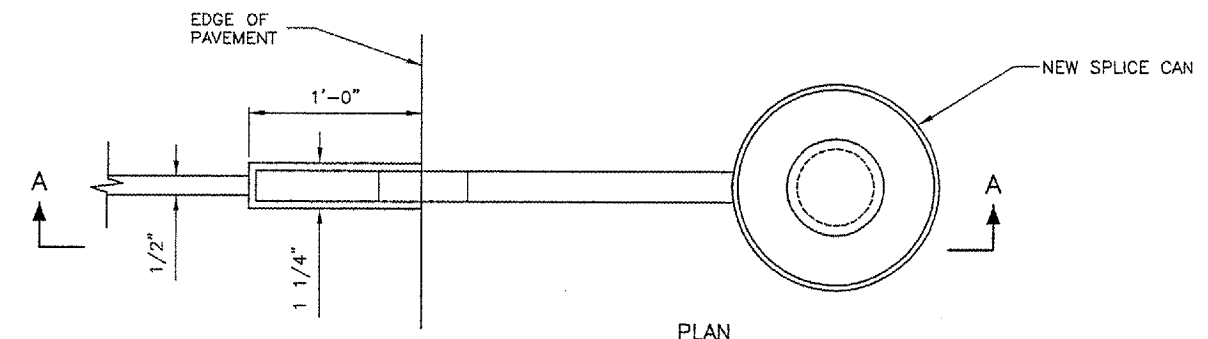
SAWKERF DETAIL (SECTION A-A)
N.T.S.



SECTION A-A



NEW IN-PAVEMENT LIGHT DETAIL
N.T.S.



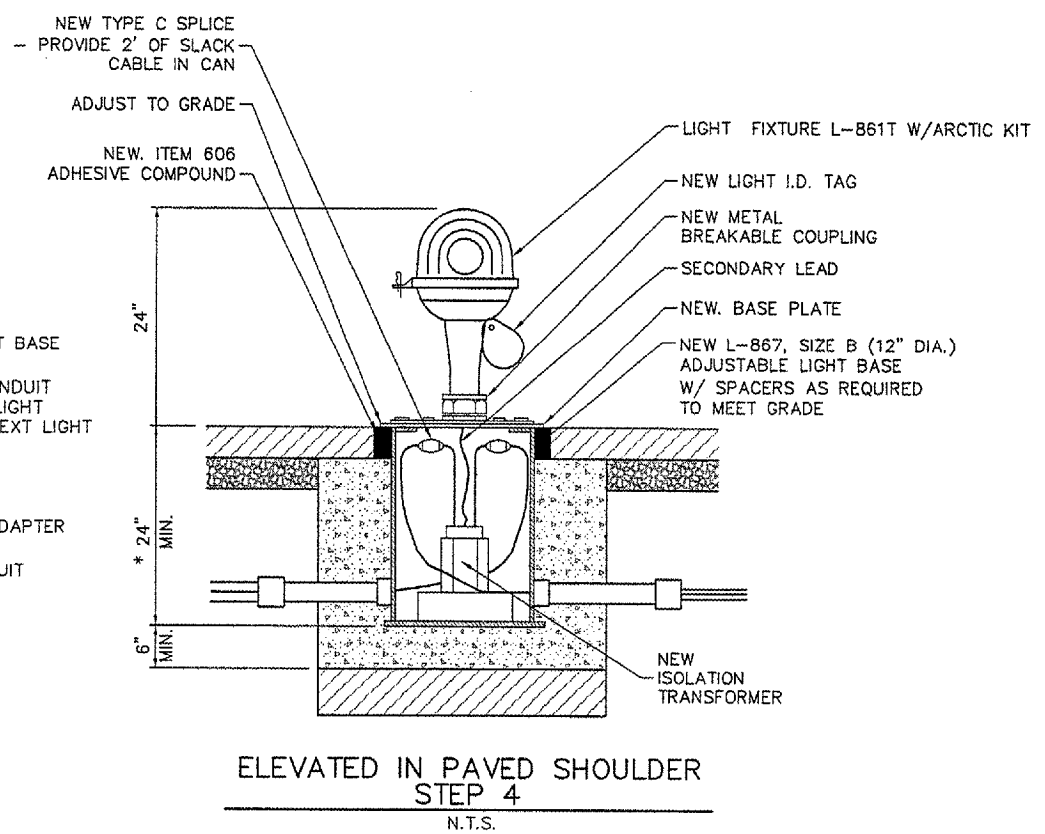
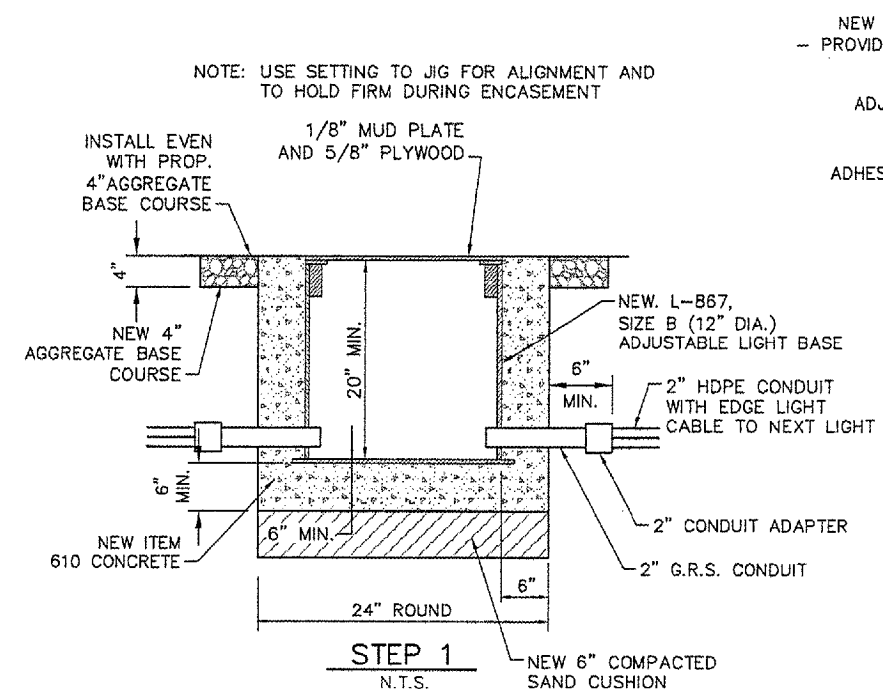
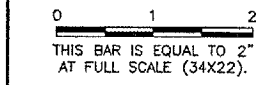
SPLICE CAN LOCATION FOR IN-PAVEMENT LIGHT DETAIL
N.T.S.

BLOOMINGTON-NORMAL AIRPORT AUTHORITY
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BLOOMINGTON, ILLINOIS
CONSTRUCT TAXIWAY G-1
ELECTRICAL DETAILS SHEET 5

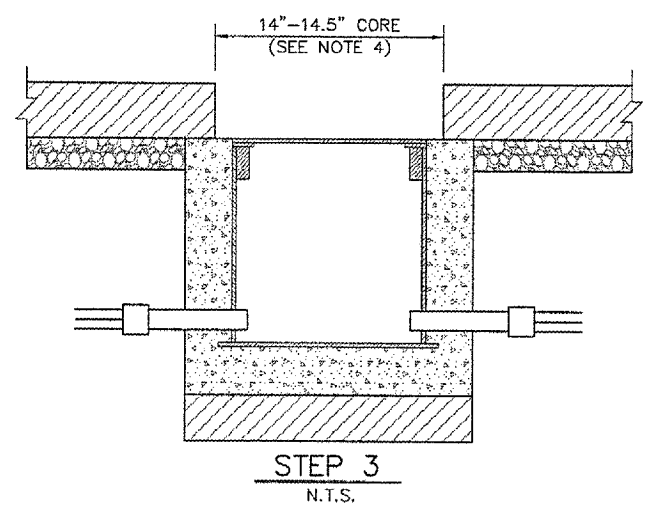
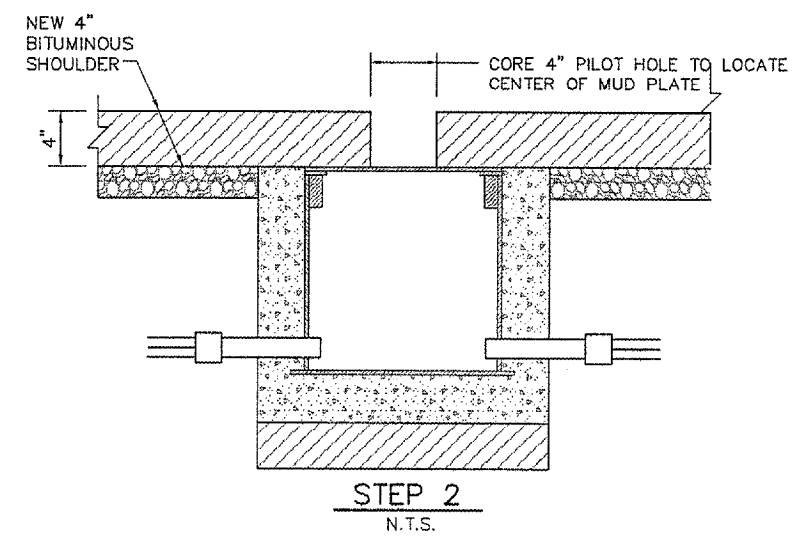
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ILLINOIS PROJECT	BMI-3452
A.I.P. PROJECT	3-17-0006-XX
SHEET	24 OF 33 SHEETS

REVISIONS		
NUMBER	BY	DATE



- NOTES:**
1. INSTALLATION SEQUENCE SHALL BE AS DETAILED IN STEP 1 THROUGH 4, AND AS DESCRIBED AS BELOW.
 2. USE MANUFACTURER'S SETTING JIG (OR OTHER DEVICE APPROVED BY THE ENGINEER) FOR PROPERLY ALIGNING THE BASE AND FOR PREVENTING MOVEMENT DURING CONCRETE ENCASEMENT.
 3. SURVEY LOCATION OF COVER PLATE BULLSEYE.
 4. AFTER FINAL PAVING AT THE FIXTURE LOCATION, CORE A 4" DIAMETER PILOT HOLE TO LOCATE THE CENTER OF THE BULLSEYE PLATE. CORE 14" TO 14.5" DIAMETER HOLE (LEAVING 1/8" + ANNULAR SPACE BETWEEN BASE CAN AND SURROUNDING PAVEMENT), CENTERED ON THE LIGHT BASE. REMOVE THE COVER PLATE, ADJUST PLATE TO REQUIRED ELEVATION, AND INSTALL LIGHT ASSEMBLY. SHIMS MAY BE REQUIRED.
 5. AFTER FIXTURE INSTALLATION, FILL THE ANNULAR SPACE BETWEEN THE FIXTURE BASE AND SURROUNDING PAVEMENT WITH P-606 ADHESIVE COMPOUND. ENSURE P-606 IS INSTALLED CLEANLY AND DOES NOT BOND TO LIGHT FIXTURE SO AS TO PREVENT FIXTURE REMOVAL.
 6. THE L-867, SIZE B TYPE 1 BASES SHALL BE ADJUSTED SO THAT THE TOP FLANGE EDGE OF THE BASE EXTENSION IS AT THE SAME ELEVATION AS THE FINISHED PAVEMENT SURFACE TO (+) 0" (-) 1/16" TOLERANCE.
 7. REUSE SHIPPING BOLTS INCLUDED WITH THE BASE ONLY IF BOLTS ARE STAINLESS STEEL AND IF INTENDED TO BE REUSED FOR LIGHT FIXTURE INSTALLATION. USE INDUSTRY STANDARD ANTI-SEIZE COMPOUND (GREASE) AND TORQUE PER MANUFACTURER'S INSTRUCTIONS.
 8. PROVIDE (3) THREE COPIES OF AN INSTRUCTION AND MAINTENANCE MANUAL TO THE ENGINEER 14 DAYS PRIOR TO START OF INSTALLATION.

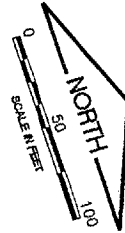
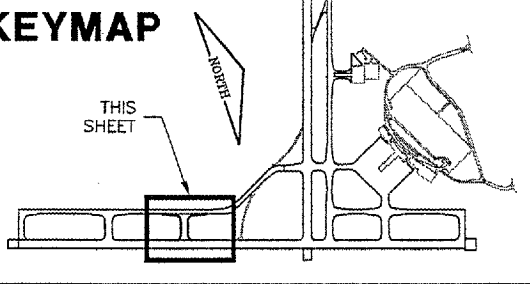


BLOOMINGTON-NORMAL AIRPORT AUTHORITY
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 CONSTRUCT TAXIWAY G-1
 ELECTRICAL DETAIL SHEET 6

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ILLINOIS PROJECT	BMI-3452
A.I.P. PROJECT	3-17-0006-XX
SHEET	25 OF 33 SHEETS

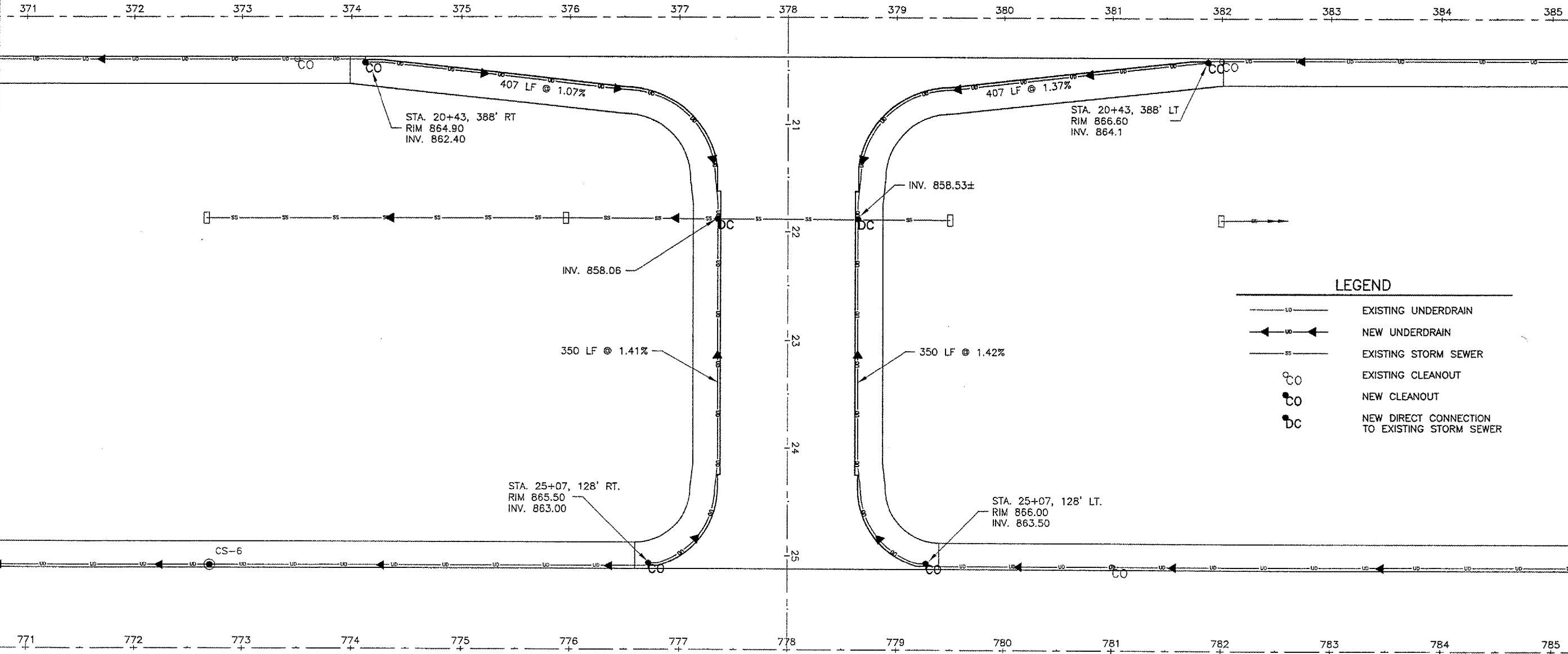
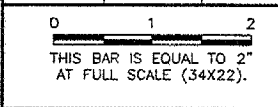
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 BASE_DRAIN.dwg
 28_DRAINPLAN.dwg

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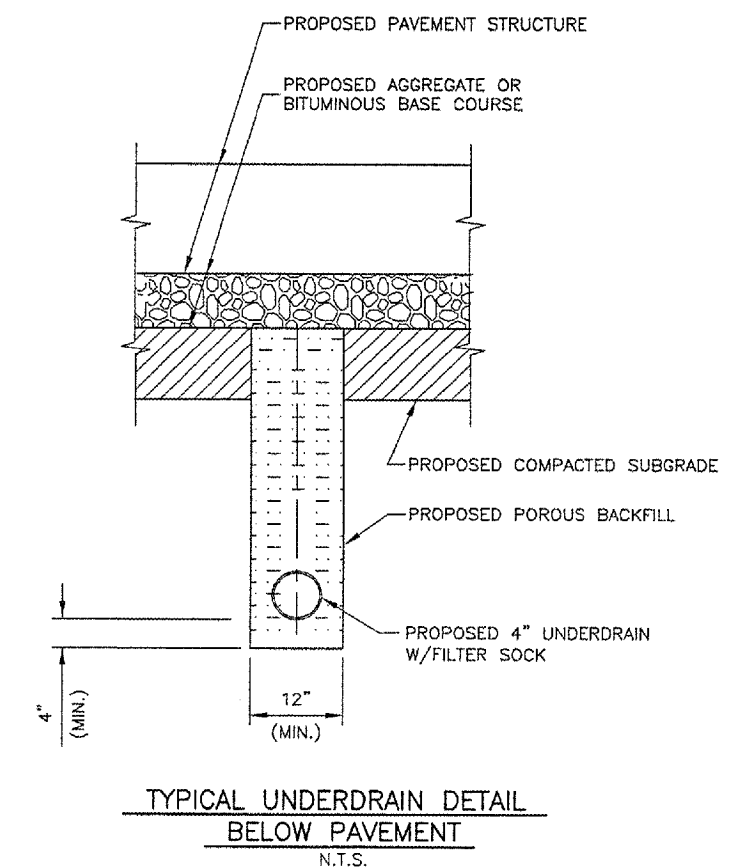
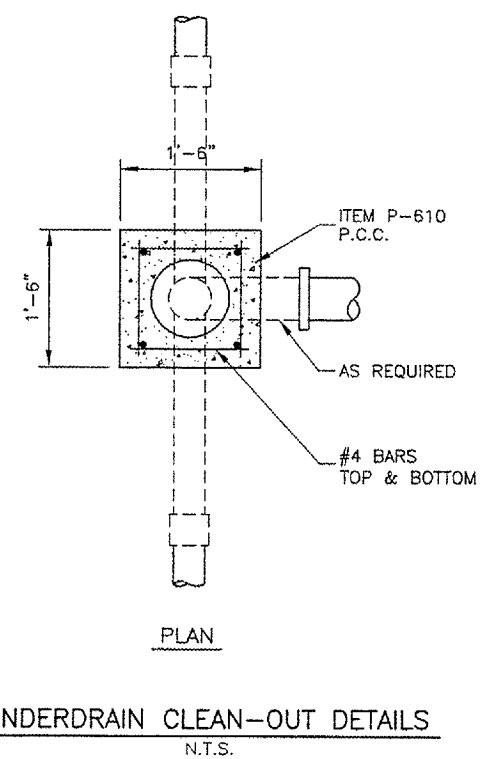
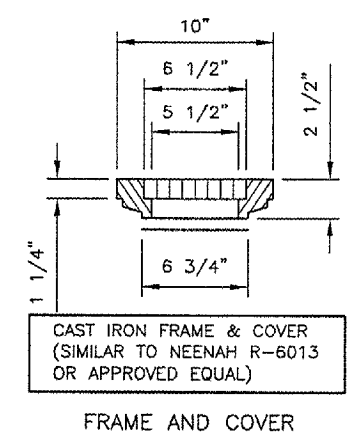
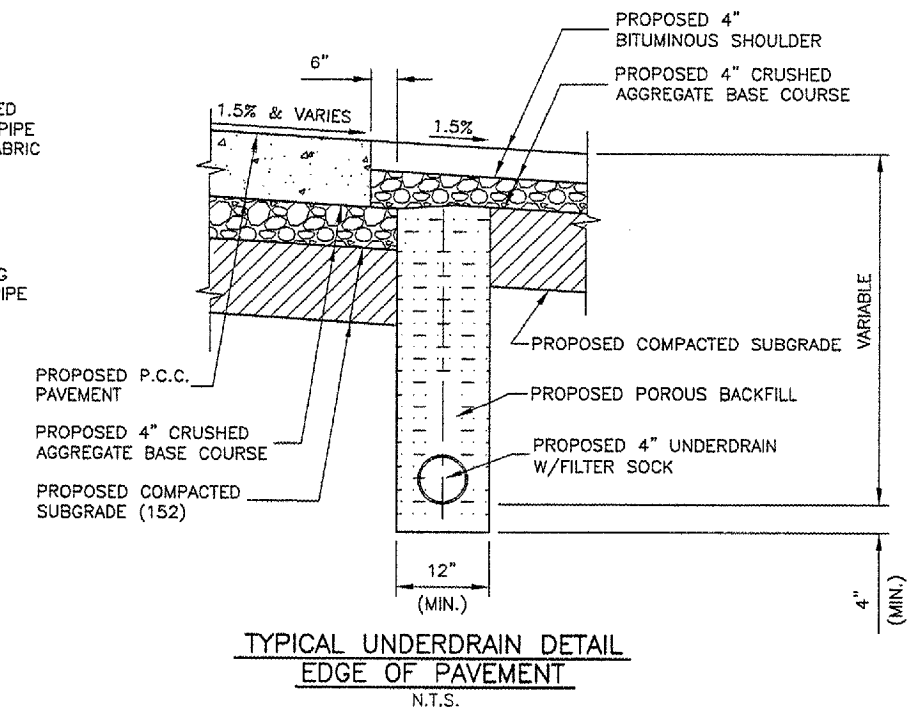
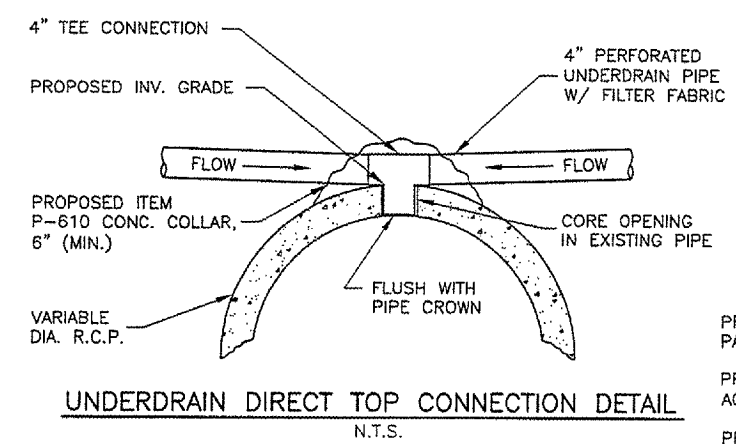
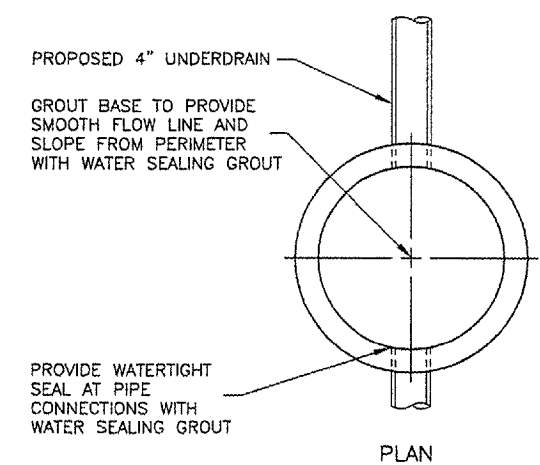
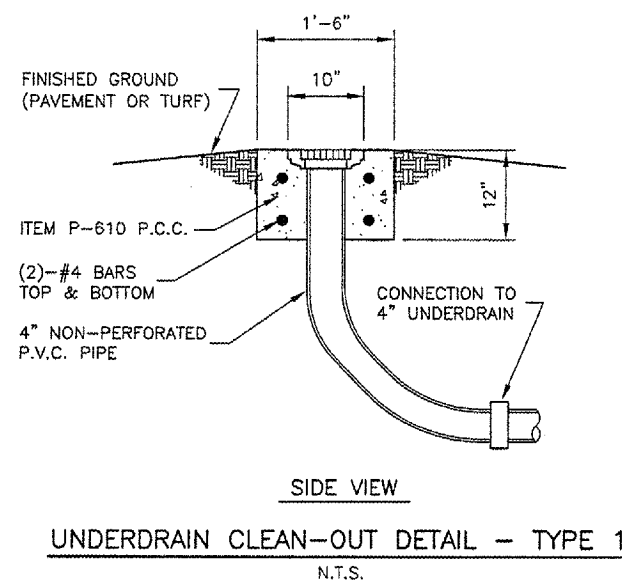
LEGEND

- EXISTING UNDERDRAIN
- NEW UNDERDRAIN
- EXISTING STORM SEWER
- EXISTING CLEANOUT
- NEW CLEANOUT
- NEW DIRECT CONNECTION TO EXISTING STORM SEWER

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CONSTRUCT TAXIWAY G-1
DRAINAGE PLAN

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A.I.P. PROJECT	3-17-0006-XX
SHEET	26 OF 33 SHEETS

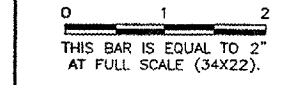


NOTES

DURING UNDERDRAIN CONSTRUCTION, CARE SHALL BE TAKEN TO ENSURE GOOD DRAINAGE BETWEEN THE SUB-BASE AND THE POROUS BACKFILL MATERIAL WHICH WILL AFFECT DRAINAGE TO THE UNDERDRAIN SHALL BE REMOVED PRIOR TO THE PLACEMENT OF PROPOSED POROUS BACKFILL. ALL COST FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL.

REVISIONS

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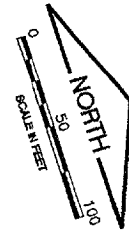
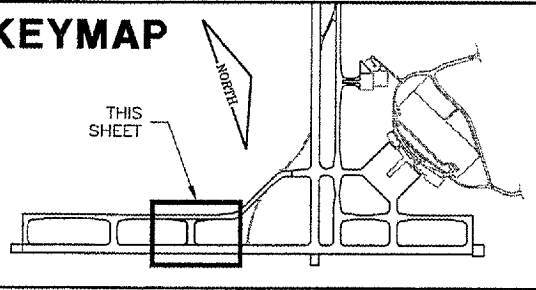
CONSTRUCT TAXIWAY G-1

UNDERDRAIN DETAILS

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A.I.P. PROJECT	3-17-0006-XX
SHEET	27 OF 33 SHEETS

KEYMAP

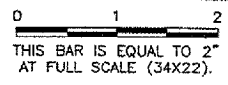


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REVISIONS

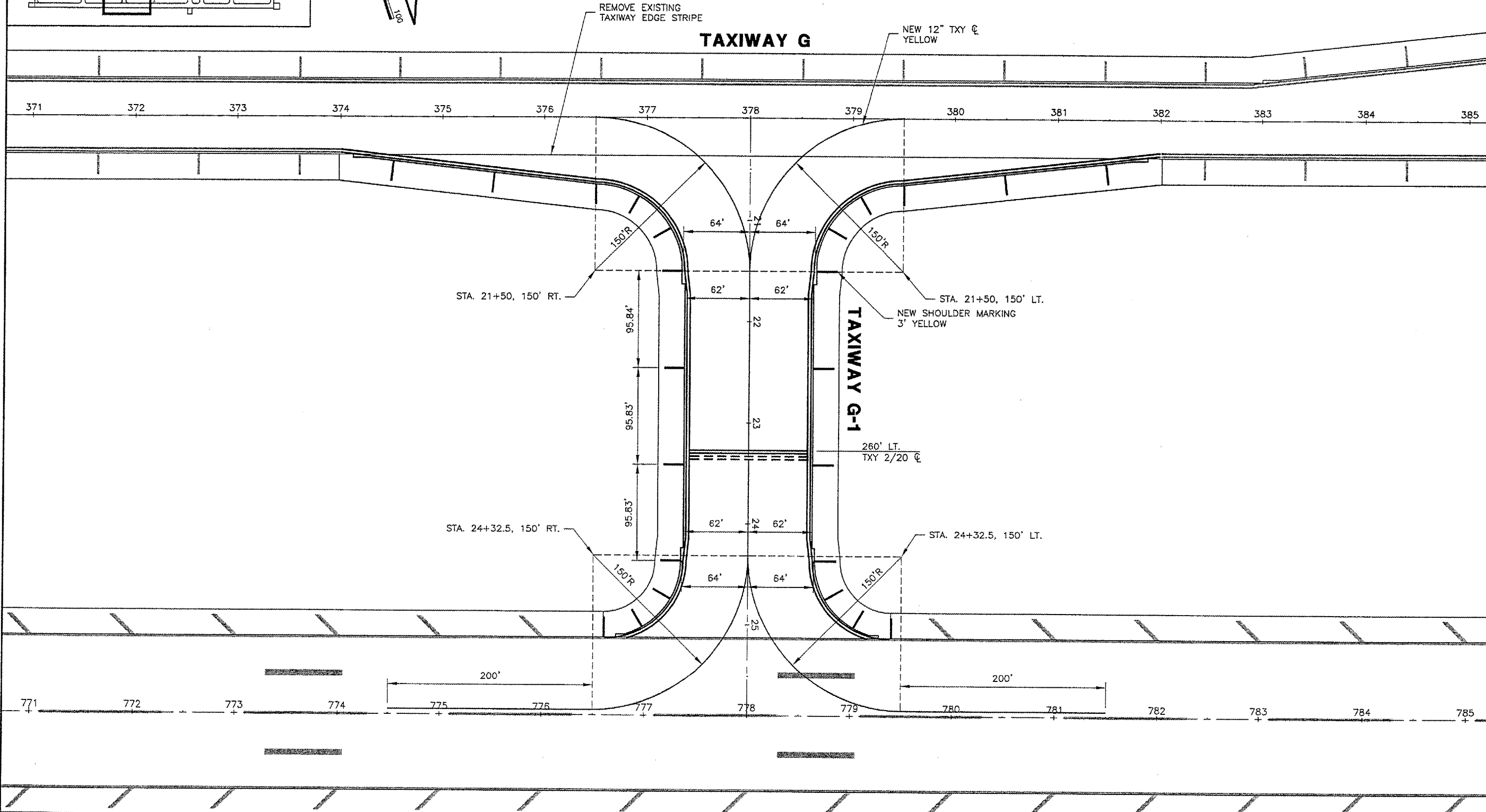
NUMBER	BY	DATE



TAXIWAY G

TAXIWAY G-1

RUNWAY 2/20



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**CONSTRUCT TAXIWAY G-1
 MARKING PLAN**

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 SHEET 28 OF 33 SHEETS

REVISIONS

NUMBER	BY	DATE

0 1 2
 THIS BAR IS EQUAL TO 2"
 AT FULL SCALE (34X22).

BLOOMINGTON-NORMAL AIRPORT AUTHORITY
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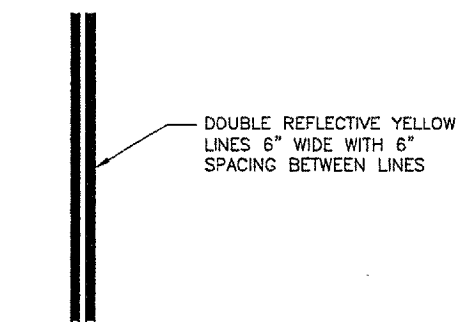
CONSTRUCT TAXIWAY G-1
 MARKING DETAILS

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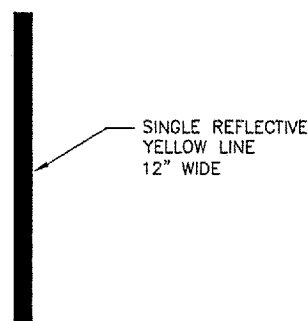
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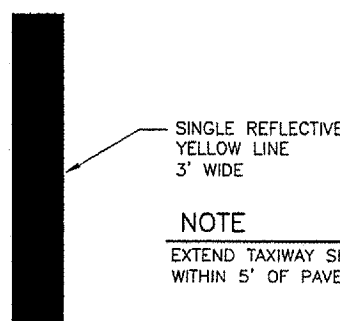
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APPROVED BY:	JEF
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ILLINOIS PROJECT	BMI-3452
A.I.P. PROJECT	3-17-0006-XX
SHEET	29 OF 33 SHEETS



TAXIWAY EDGE MARKINGS
 (CONTINUOUS)
 N.T.S.

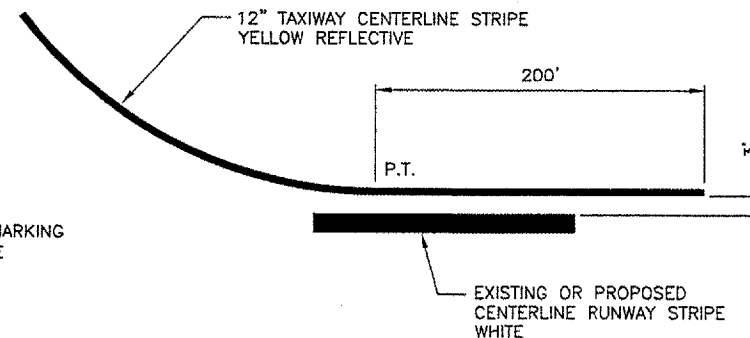


TAXIWAY CENTERLINE MARKING
 (CONTINUOUS)
 N.T.S.



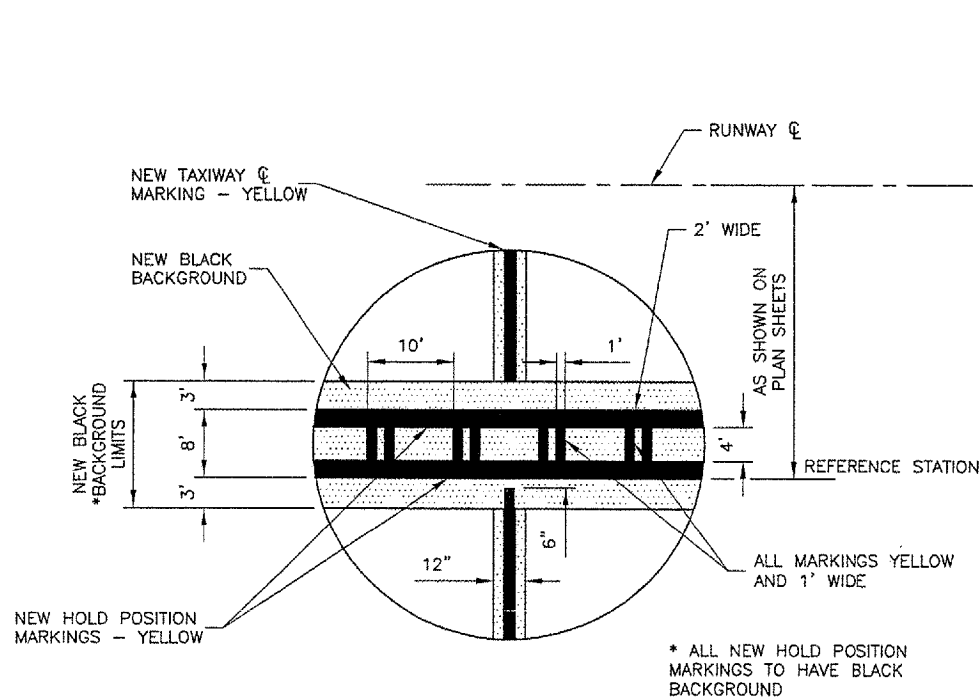
TAXIWAY SHOULDER MARKING
 N.T.S.

NOTE
 EXTEND TAXIWAY SHOULDER MARKING
 WITHIN 5' OF PAVEMENT EDGE

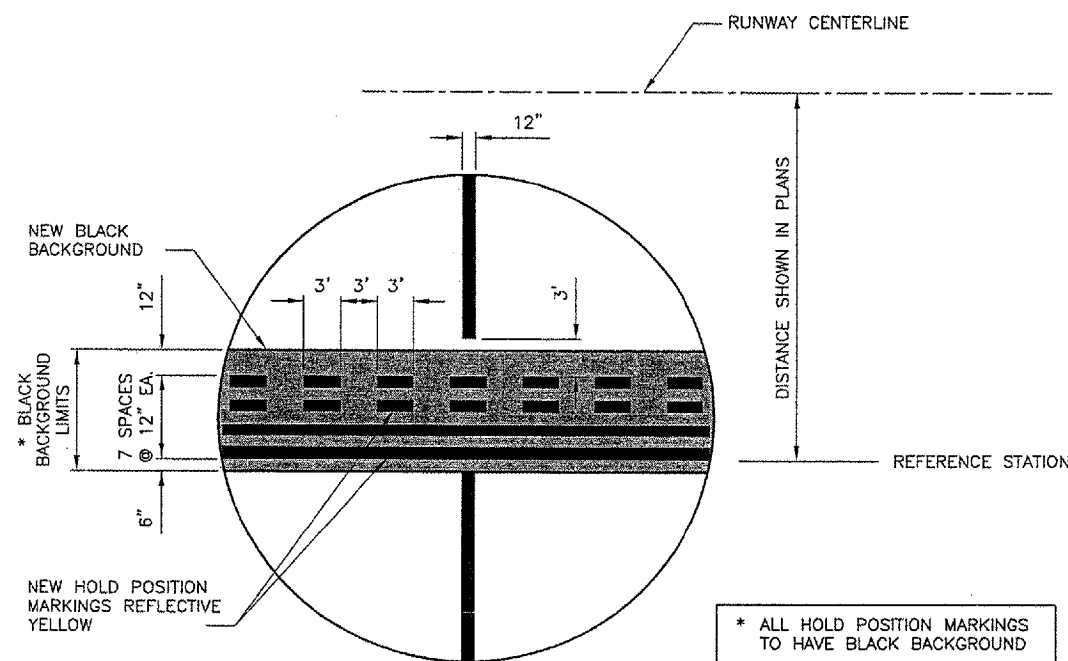


TAXIWAY EXIT MARKING DETAIL
 N.T.S.

NOTE
 1. ALL MARKINGS WILL
 BE OUTLINED WITH A
 6" BLACK BORDER



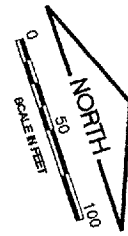
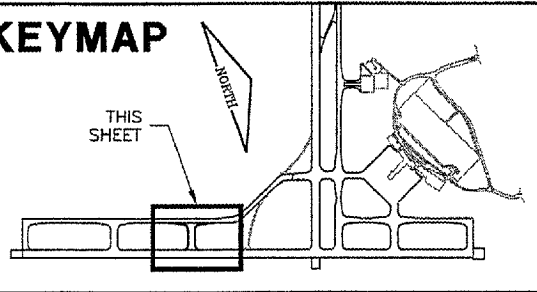
ILS HOLD POSITION MARKING DETAIL
 N.T.S.



RUNWAY HOLD POSITION MARKING DETAIL
 N.T.S.

* ALL HOLD POSITION MARKINGS
 TO HAVE BLACK BACKGROUND

KEYMAP

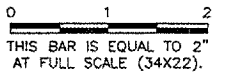


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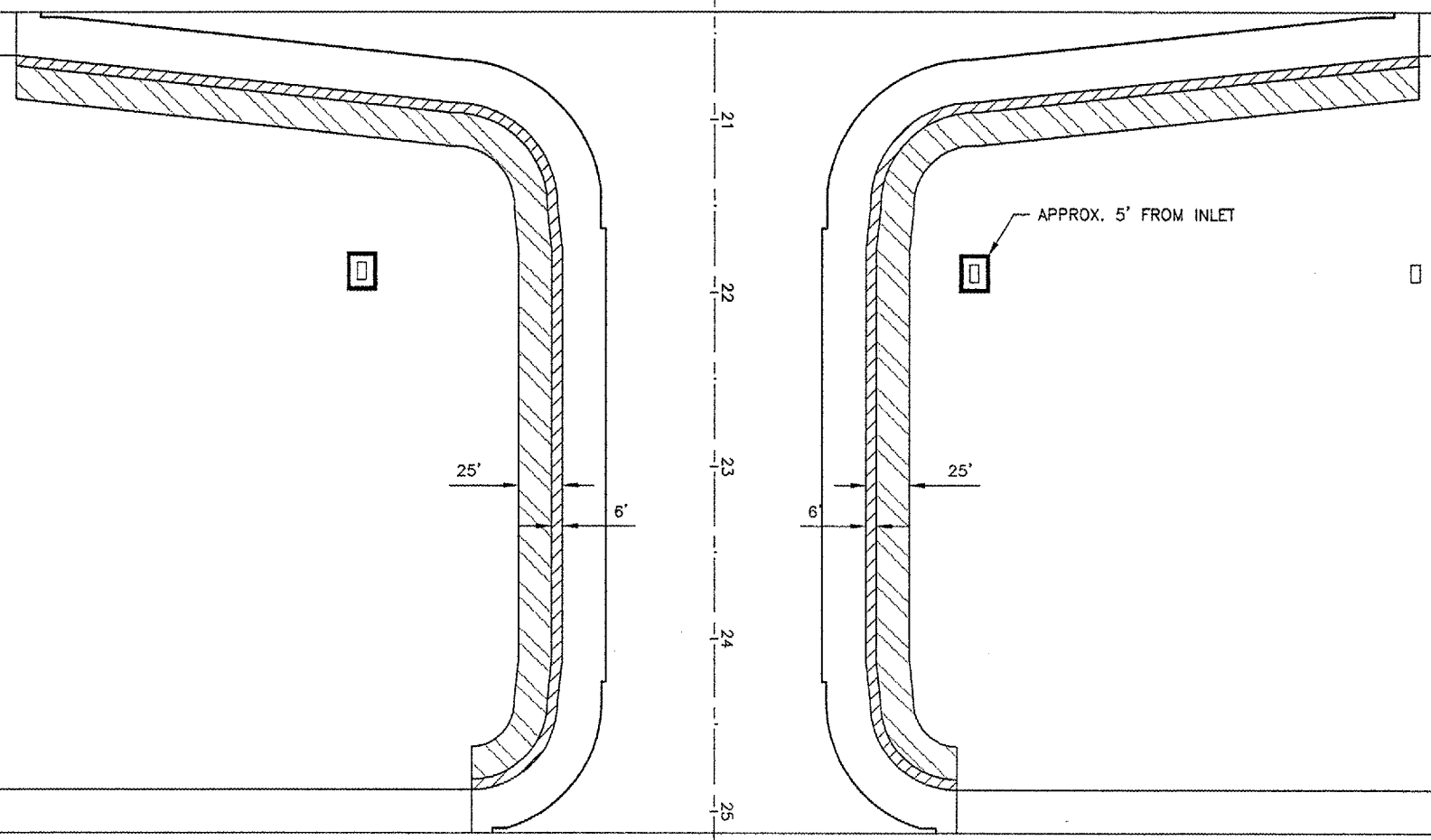
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 TXY-G Topo.dwg

REVISIONS

NUMBER	BY	DATE



371 372 373 374 375 376 377 378 379 380 381 382 383 384 385



LEGEND

- NEW SILT FENCE
- SEEDING & EXCELSIOR BLANKET
- 6' NEW SOD

771 772 773 774 775 776 777 778 779 780 781 782 783 784 785

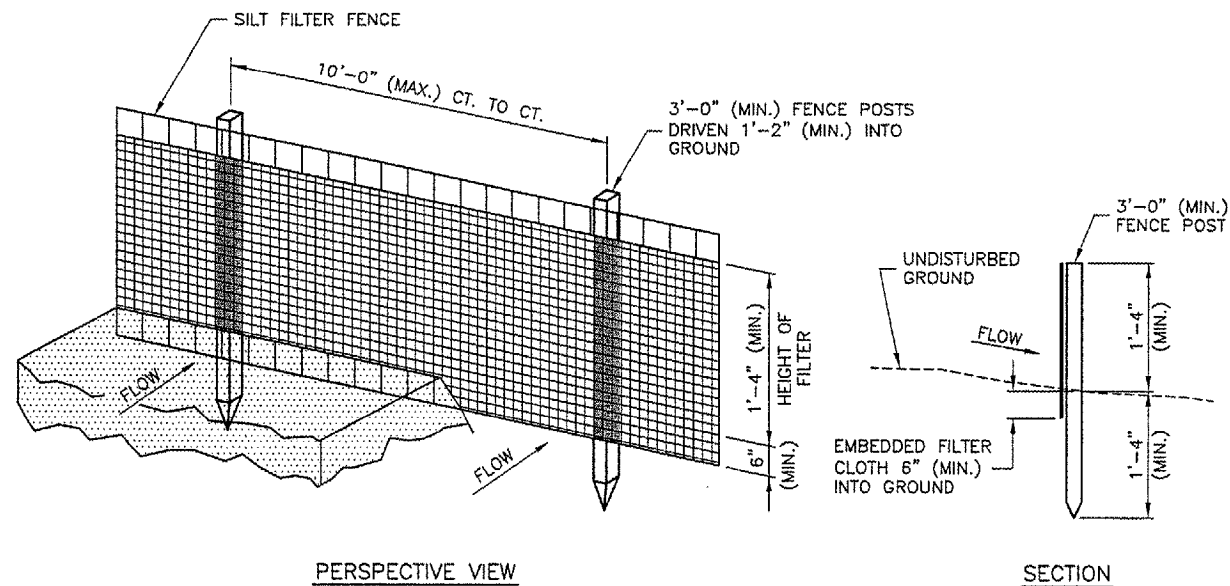
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 BLOOMINGTON, ILLINOIS**

**CONSTRUCT TAXIWAY G-1
 TURFING PLAN**

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ILLINOIS PROJECT	BMI-3452
A.I.P. PROJECT	3-17-0006-XX
SHEET	30 OF 33 SHEETS



PERSPECTIVE VIEW

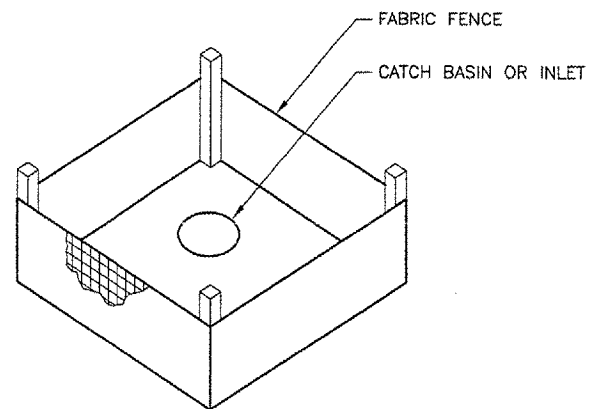
SECTION

EROSION CONTROL FABRIC FENCE DETAIL

N.T.S.

NOTES

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 2'-0" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" MINIMUM AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE. MAINTENANCE, WHICH INCLUDES THE REPLACEMENT OF DAMAGED FENCE SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE EROSION CONTROL FENCE.



INLET PROTECTION WITH FABRIC

N.T.S.

REVISIONS

NUMBER	BY	DATE



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CONSTRUCT TAXIWAY G-1

EROSION CONTROL DETAILS

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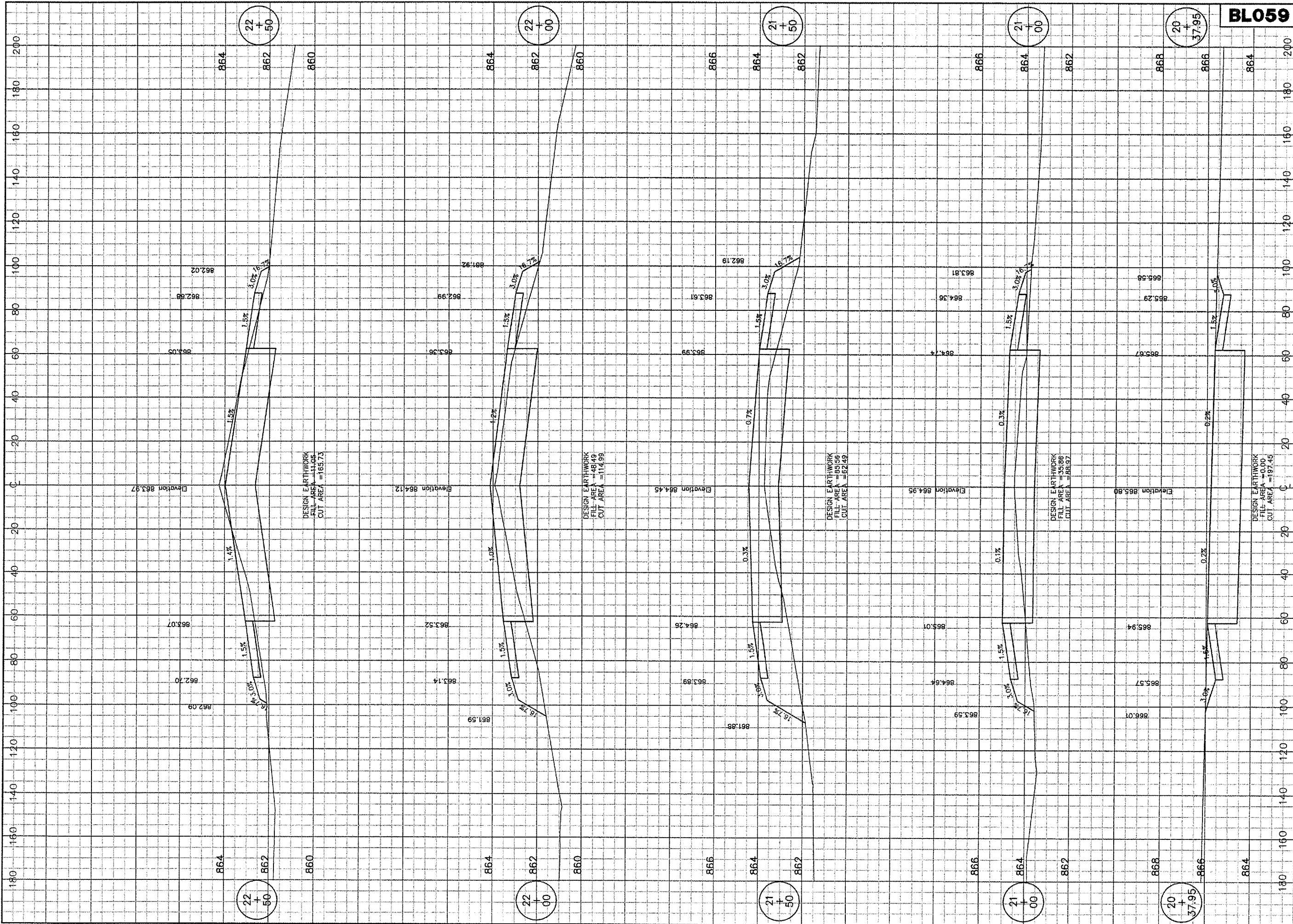
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APPROVED BY: JEF

DATE: 1/13/2006

JOB No: 05085-0300

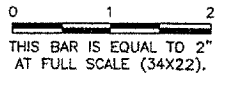
ILLINOIS PROJECT BMI-3452
 A.I.P. PROJECT 3-17-0006-XX



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 SURVEY BOOK #
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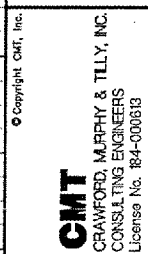
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NUMBER	BY	DATE



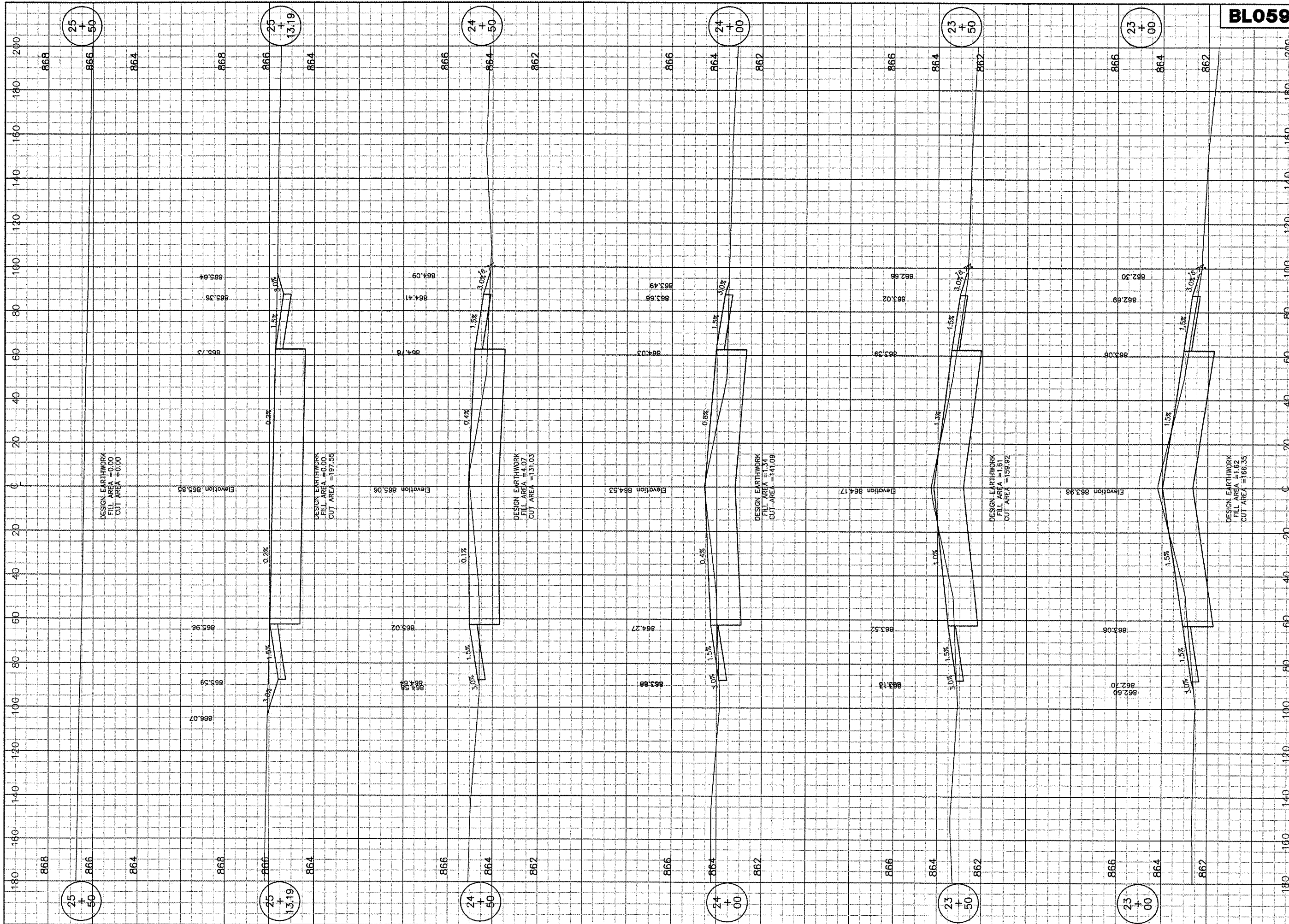
BLOOMINGTON-NORMAL AIRPORT AUTHORITY
CENTRAL ILLINOIS REGIONAL AIRPORT
BLOOMINGTON, ILLINOIS

CONSTRUCT TAXIWAY G-1

TAXIWAY G-1 CROSS SECTIONS
STA. 20+37.95 TO STA. 22+50



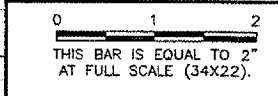
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DRAWN BY:	DPA
CHECKED BY:	RLV
APPROVED BY:	JEF
DATE:	1/13/2006
JOB No:	05085-0300
ILLINOIS PROJECT	BMI-3452
A.I.P. PROJECT	3-17-0006-XX
SHEET	32 OF 33 SHEETS



BLO59

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REVISIONS		
NUMBER	BY	DATE



**BLOOMINGTON-NORMAL AIRPORT AUTHORITY
 CENTRAL ILLINOIS REGIONAL AIRPORT
 BLOOMINGTON, ILLINOIS**

CONSTRUCT TAXIWAY G-1

**TAXIWAY G-1 CROSS SECTIONS
 STA. 23+00 TO STA. 25+50**

CMT
 CRAWFORD, MURPHY & TILLY, INC.
 CONSULTING ENGINEERS
 License No. 84-000613

DESIGN BY: CBG
 DRAWN BY: DPA
 CHECKED BY: RLV
 APPROVED BY: JEF
 DATE: 1/13/2006
 JOB No: 05085-0300

ILLINOIS PROJECT BMI-3452
 A.I.P. PROJECT 3-17-0006-XX
 SHEET 33 OF 33 SHEETS