

ITEM 5A

03/06/09 LETTING

TOTAL SHEETS: 65

CA007

# CONSTRUCTION PLANS FOR ABRAHAM LINCOLN CAPITAL AIRPORT

SPRINGFIELD AIRPORT AUTHORITY  
SPRINGFIELD, ILLINOIS

IL. PROJ. NO. SPI-3860  
AIP PROJ. NO. 3-17-0096-XX

## WIDEN TAXIWAY G - PHASE 2

JANUARY 30, 2009

1/21/09

**RANDALL L. VOGEL**  
62-048048  
REGISTERED  
PROFESSIONAL  
ENGINEER  
OF  
ILLINOIS

*Randall L. Vogel*  
EXP. 11/30/09

**811** Know what's below. Call before you dig. www.illinois811.com

J.U.L.I.E. JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS

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 ACTUAL LOCATIONS OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY UTILITY COMPANIES OF HIS OPERATIONAL PLANS, OBTAIN FROM 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 AND THE ONE-CALL NOTICE SYSTEM. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH UTILITY OR 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 811.

**DESIGN INFORMATION**

**GEOMETRIC CRITERIA**

TXY G  
AIRPLANE DESIGN GROUP D  
AIRCRAFT APPROACH CATEGORY IV

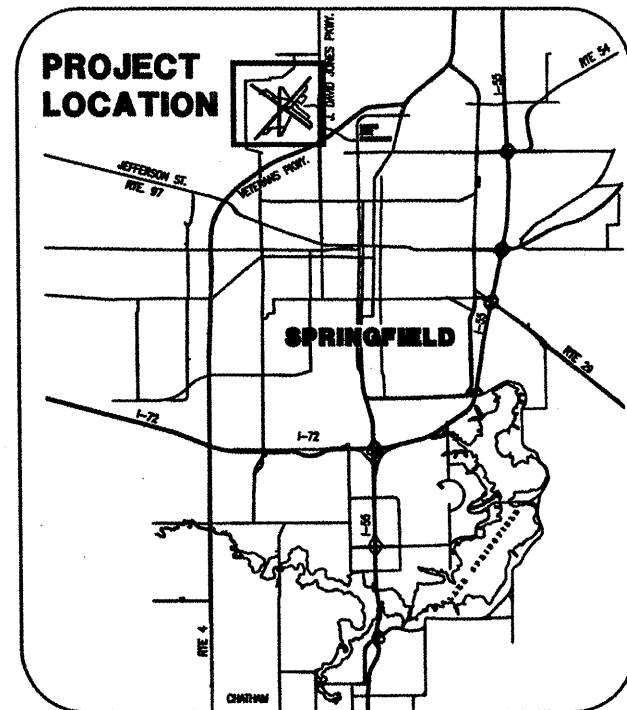
**PAVEMENT DESIGN CRITERIA**

TXY G  
AIRCRAFT DUAL WHEEL GEAR  
DEPARTURE WEIGHT = 150,000 LBS.  
1006 EQUIV. ANNUAL DEPARTURES

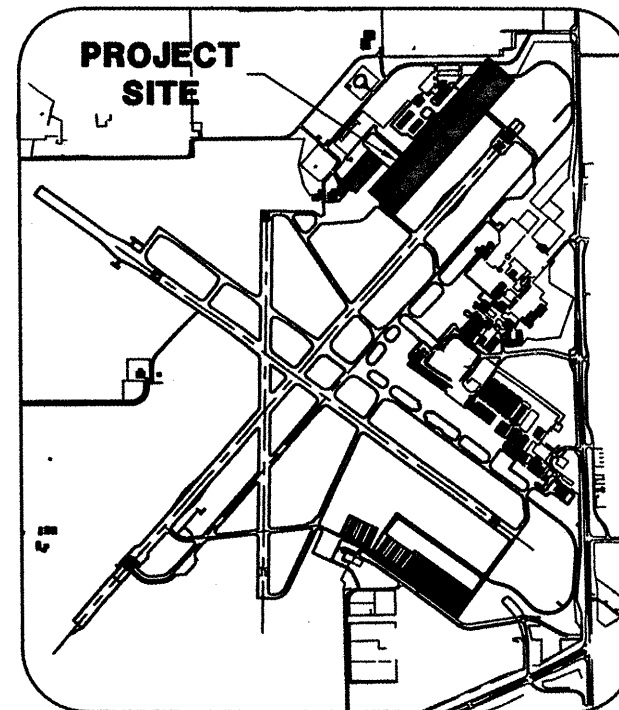
TXY Z  
AIRCRAFT DUAL WHEEL GEAR  
DEPARTURE WEIGHT = 50,000 LBS.  
104 EQUIV. ANNUAL DEPARTURES

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

TOWNSHIP: 16 NORTH  
RANGE: 5 WEST OF THE 4TH P.M.  
SECTION: 9  
COUNTY: SANGAMON  
CIVIL TOWNSHIP: CAPITAL



LOCATION MAP



SITE PLAN

**Springfield Airport Authority**  
ABRAHAM LINCOLN CAPITAL AIRPORT  
SPRINGFIELD, ILLINOIS

APPROVED *Mark E. Johnson*  
EXECUTIVE DIRECTOR OF AVIATION

DATE Jan 21 2009

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

SUBMITTED BY *Randall L. Vogel*

DATE 1/21/09

CMT JOB NUMBER: 07035-09-00

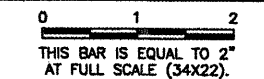
SUMMARY OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
AR108108	1/C #8 5 KV UG CABLE	L.F.	13965
AR108158	1/C #8 5 KV UG CABLE IN UD	L.F.	11330
AR108706	1/C #6 COUNTERPOISE	L.F.	3860
AR800385	COUNTERPOISE GROUND ROD	EACH	15
AR109210	VAULT MODIFICATIONS	L.S.	1
AR110014	4" DIRECTIONAL BORE	L.F.	230
AR110714	ELECTRICAL MANHOLE 4'	EACH	7
AR800293	DUCT MARKER-IN PAVEMENT	EACH	20
AR800381	4 - 2" DIRECTIONAL BORE	L.F.	2575
AR125415	MTL-BASE MOUNTED	EACH	83
AR125443	TAXI GUIDANCE SIGN, 3 CHARACTER	EACH	6
AR125444	TAXI GUIDANCE SIGN, 4 CHARACTER	EACH	2
AR125445	TAXI GUIDANCE SIGN, 5 CHARACTER	EACH	2
AR125446	TAXI GUIDANCE SIGN, 6 CHARACTER	EACH	6
AR125565	SPLICE CAN	EACH	2
AR125901	REMOVE STAKE MOUNTED LIGHT	EACH	33
AR125902	REMOVE BASE MOUNTED LIGHT	EACH	62
AR125904	REMOVE TAXI GUIDANCE SIGN	EACH	13
AR125906	REMOVE SPLICE CAN	EACH	4
AR800316	REMOVE RETROREFLECTIVE MARKER	EACH	9
AR150510	ENGINEER'S FIELD OFFICE	L.S.	1
AR152410	UNCLASSIFIED EXCAVATION	C.Y.	6480
AR156510	SILT FENCE	L.F.	275
AR156520	INLET PROTECTION	EACH	12
AR201506	BITUMINOUS BASE COURSE-6"	S.Y.	1240
AR800384	BITUMINOUS BASE COURSE - 3"	S.Y.	1030
AR209604	CRUSHED AGG. BASE COURSE - 4"	S.Y.	11635
AR209608	CRUSHED AGG. BASE COURSE - 8"	S.Y.	1300
AR401502	BITUMINOUS SURFACE COURSE - 2"	S.Y.	2270
AR401655	BUTT JOINT CONSTRUCTION	S.Y.	70
AR401900	REMOVE BITUMINOUS PAVEMENT	S.Y.	1320
AR501513	13" PCC PAVEMENT	S.Y.	11205
AR501530	PCC TEST BATCH	EACH	1
AR501665	PCC PAVEMENT SAWING	L.F.	3500
AR501900	REMOVE PCC PAVEMENT	S.Y.	2340
AR602510	BITUMINOUS PRIME COAT	GAL.	495
AR603510	BITUMINOUS TACK COAT	GAL.	255
AR605540	CLEAN & SEAL JOINTS	L.F.	10450
AR620510	PAVEMENT MARKING	S.F.	42290
AR620900	PAVEMENT MARKING REMOVAL	S.F.	27015
AR701515	15" RCP, CLASS IV	L.F.	230
AR701524	24" RCP, CLASS IV	L.F.	985
AR701530	30" RCP, CLASS IV	L.F.	405
AR701900	REMOVE PIPE	L.F.	1680
AR705524	4" PERFORATED UNDERDRAIN W/SOCK	L.F.	3490
AR705544	4" NON PERFORATED UNDERDRAIN	L.F.	655
AR705635	UNDERDRAIN COLLECTION STRUCTURE	EACH	6
AR705640	UNDERDRAIN CLEANOUT	EACH	9
AR751410	INLET	EACH	4
AR751415	INLET-SPECIAL	EACH	1
AR751550	MANHOLE 5'	EACH	2
AR751900	REMOVE INLET	EACH	5
AR751903	REMOVE MANHOLE	EACH	2
AR752415	PRECAST REINFORCED CONC. FES 15"	EACH	1
AR752900	REMOVE END SECTION	EACH	1
AR901510	SEEDING	ACRE	9
AR904510	SODDING	S.Y.	3350
AR908510	MULCHING	ACRE	9
AR908520	EXCELSIOR BLANKET	S.Y.	3000

INDEX TO SHEETS	
SHEET NUMBER	SHEET TITLE
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02	INDEX TO SHEETS & SUMMARY OF QUANTITIES
03	AIRPORT SITE PLAN
04	CONSTRUCTION ACTIVITY PLAN 1
05	CONSTRUCTION ACTIVITY PLAN 2
06	CONSTRUCTION ACTIVITY PLAN 3
07	CONSTRUCTION ACTIVITY PLAN 4
08	CONSTRUCTION ACTIVITY PLAN DETAILS
09	EXISTING PAVEMENT STRUCTURE 1
10	EXISTING PAVEMENT STRUCTURE 2
11	EXISTING CONDITIONS & REMOVALS LEGEND & NOTES
12	EXISTING CONDITIONS & REMOVALS 1
13	EXISTING CONDITIONS & REMOVALS 2
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15	PROPOSED IMPROVEMENTS 2
16	TYPICAL SECTIONS 1
17	TYPICAL SECTIONS 2
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19	TAXIWAY Z STAKING PLAN
20	TAXIWAY G STAKING PLAN 1
21	TAXIWAY G STAKING PLAN 2
22	TAXIWAY G STAKING PLAN 3
23	JOINTING PLAN 1
24	JOINTING PLAN 2
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35	INLET - SPECIAL DETAIL
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41	MARKING PLAN 5
42	MARKING PLAN 6
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44	MARKING DETAILS 2
45	LIGHTING PLAN 1
46	LIGHTING PLAN 2
47	LIGHTING PLAN 3
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49	HOMERUN PLAN
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52	ELECTRICAL DETAILS 2
53	DUCT BANK DETAIL
54	AIRFIELD SIGNAGE DETAIL
55	INDEX TO CROSS SECTIONS - TURFING PLAN 1
56	INDEX TO CROSS SECTIONS - TURFING PLAN 2
57	EROSION CONTROL DETAILS
58	EARTHWORK SUMMARY
59	TAXIWAY G CROSS SECTIONS 1 STA. 1177+09.39 TO STA. 1181+50
60	TAXIWAY G CROSS SECTIONS 2 STA. 1182+00 TO STA. 1186+50
61	TAXIWAY G CROSS SECTIONS 3 STA. 1187+00 TO STA. 1191+50
62	TAXIWAY G CROSS SECTIONS 4 STA. 1192+00 TO STA. 1195+50
63	TAXIWAY G CROSS SECTIONS 5 STA. 1196+00 TO STA. 1197+68.85
64	TAXIWAY Z CROSS SECTIONS 1 STA. 0+37.50 TO STA. 4+50
65	TAXIWAY Z CROSS SECTIONS 2 STA. 5+00 TO STA. 5+44.19

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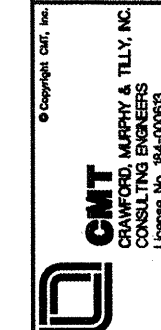
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SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY G - PHASE 2

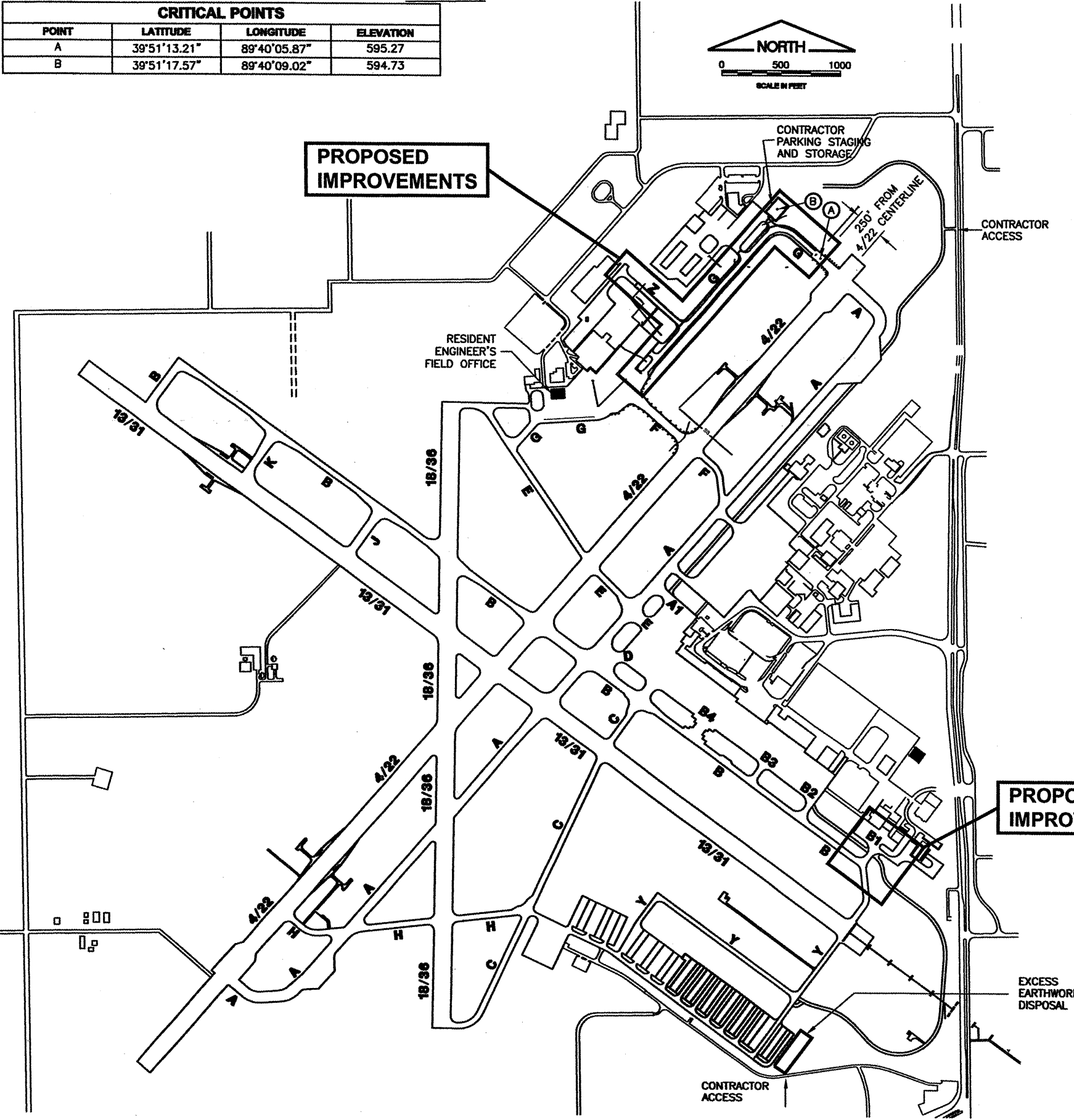
INDEX TO SHEETS &  
 SUMMARY OF QUANTITIES



DESIGN BY: CBG  
 DRAWN BY: CMT  
 CHECKED BY: *RLN*  
 APPROVED BY: *RLN*  
 DATE: 01/30/2009  
 JOB No: 07035-09-00  
 ILL. PROJ. NO. SPI-3860  
 AIP PROJ. NO. 3-17-0096-XX  
 SHEET 02 OF 65 SHEETS

GROUND CONTROL FREQUENCY - 121.90  
 AIR CONTROL FREQUENCY - 124.30  
 MAXIMUM HEIGHT OF EQUIPMENT - 25'

CRITICAL POINTS			
POINT	LATITUDE	LONGITUDE	ELEVATION
A	39°51'13.21"	89°40'05.87"	595.27
B	39°51'17.57"	89°40'09.02"	594.73



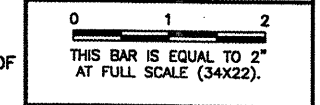
**GENERAL NOTES**


- ALL RUNWAYS, TAXIWAYS, AND APRONS SHALL BE KEPT OPEN TO AIRPORT TRAFFIC DURING CONSTRUCTION EXCEPT AS NOTED IN THE CONSTRUCTION ACTIVITY PLAN.
- ALL CONSTRUCTION TRAFFIC OPERATING ON OR CROSSING RUNWAYS, TAXIWAYS, AND APRONS OPEN TO AIRCRAFT TRAFFIC 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 AND ONLY HIS PERSONNEL WHO HAVE SUCCESSFULLY COMPLETED THE APPROVED SAA/FAA SAFETY COURSE MAY OPERATE THESE RADIOS.
- 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.
- THE CONTRACTOR WILL BE PERMITTED TO STORE EQUIPMENT AND MATERIALS AT THE LOCATIONS SHOWN ON THE CONSTRUCTION ACTIVITY PLAN. THE MAXIMUM HEIGHT OF EQUIPMENT, MATERIALS AND STOCKPILES SHALL BE 25' ABOVE GROUND ELEVATION.
- BROKEN ASPHALT SHALL BE DISPOSED OF BY THE CONTRACTOR OFF OF AIRPORT PROPERTY UNLESS OTHERWISE DIRECTED BY THE AIRPORT.
- VEHICLES AND EQUIPMENT SHALL NOT BE ALLOWED WITHIN 95' FROM THE CENTERLINE OF ACTIVE TAXIWAYS OR 250' FROM THE CENTERLINE OF ACTIVE RUNWAYS.
- ROADS OR STORAGE AREAS SHALL BE MAINTAINED AND REPAIRED IN KIND BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AND THE AIRPORT. NO ADDITIONAL COMPENSATION SHALL BE MADE TO THE CONTRACTOR FOR THIS WORK.
- EXISTING TURF AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY HIM AT HIS EXPENSE TO THE SATISFACTION OF THE ENGINEER AND THE AIRPORT.
- THE CONTRACTOR SHALL CONTINUOUSLY CLEAN CONSTRUCTION AREAS WHICH ARE OR WILL BE OPENED TO AIR TRAFFIC.
- IT WILL BE NECESSARY FOR THE CONTRACTOR TO MAKE HIS OWN FIELD INVESTIGATION TO DETERMINE THE EXACT LOCATION OF THE UNDERGROUND UTILITIES AT CRITICAL POINTS SO AS TO AVOID ANY DAMAGE. ANY UTILITY, INCLUDING AIRFIELD ELECTRICAL CABLE AND LIGHTS, DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY HIM AT HIS OWN EXPENSE IN A MANNER WHICH IS SATISFACTORY TO THE ENGINEER AND TO THE OWNER OF THE UTILITY. ANY REPAIRS THAT MUST BE MADE BY THE OWNER OF THE UTILITY SHALL HAVE THE COST REIMBURSED TO THE UTILITY BY THE CONTRACTOR. AIRFIELD LIGHTING CABLES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY A QUALIFIED ELECTRICIAN WITH THE COSTS TO BE BORNE BY THE CONTRACTOR.
- CONTRACTOR'S ACCESS SHALL BE AS FOLLOWS:
  - THE CONTRACTOR'S ACCESS TO WORK SHALL BE AS SHOWN IN THE PLANS.
  - THE CONTRACTOR SHALL COMPLETE A SECURITY FORM FOR ALL PERSONNEL 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.
  - 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 HIS PADLOCK TO THE RESIDENT ENGINEER, S.A.A. MAINTENANCE SUPERVISOR, AND S.A.A. SECURITY CHIEF. NO ADDITIONAL KEYS ARE TO BE DISTRIBUTED UNLESS AUTHORIZED BY THE RESIDENT ENGINEER.
  - CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND TEMPORARY EASEMENTS FOR THE PUBLIC ACCESS ROAD(S) SHOWN AND SHALL COMPLY WITH ALL REQUIREMENTS, LOAD RESTRICTIONS, & TRAFFIC CONTROL SIGNAGE REQUIRED BY THE CITY, COUNTY, TOWNSHIP, OR I.D.O.T.
  - DURING ADVERSE WEATHER THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE WORK AT NO ADDITIONAL COST TO THE CONTRACT. NO EXTENSION OF THE CONTRACT TIME WILL BE CONSIDERED FOR DELAYS DUE TO LACK OF ADEQUATE ACCESS TO THE WORK SITE.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE ACCESS GATE(S) CLOSED DURING WORK HOURS. THE CONTRACTOR SHALL POST A COMPETENT SECURITY GUARD TO CONTROL ACCESS AT THE GATE. THE CONTRACTOR SHALL REPLACE ANY UNSATISFACTORY SECURITY GUARDS AS DIRECTED.
  - THE CONTRACTOR SHALL CLOSE AND LOCK THE ACCESS GATE(S) UPON LEAVING THE SITE.
  - ALL COSTS RELATING TO CONTRACTOR'S ACCESS AND SECURITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
  - THE CONTRACTOR SHALL STORE EQUIPMENT AND MATERIALS IN SUCH A WAY AS NOT TO VIOLATE AIRPORT PART 77 SURFACES, OR RUNWAY AND TAXIWAY SAFETY AREAS.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ACTIVE AIRFIELD PAVEMENTS WHICH ARE CROSSED BY HIS VEHICLES.
- EXCESS EARTHWORK DISPOSAL SHALL BE AS FOLLOWS:
  - EXCESS EARTHWORK SHALL BE DISPOSED AT THE LOCATION SHOWN, AS DIRECTED BY THE AIRPORT.
  - EXCESS EARTHWORK SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH ITEM 152.
  - THE CONTRACTOR SHALL INSTALL A TEMPORARY ACCESS GATE AT A LOCATION APPROVED BY THE AIRPORT FOR ACCESS TO THE DISPOSAL AREA.

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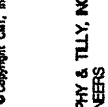
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NUMBER	BY	DATE



  
**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

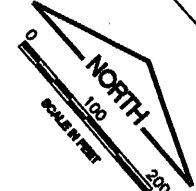
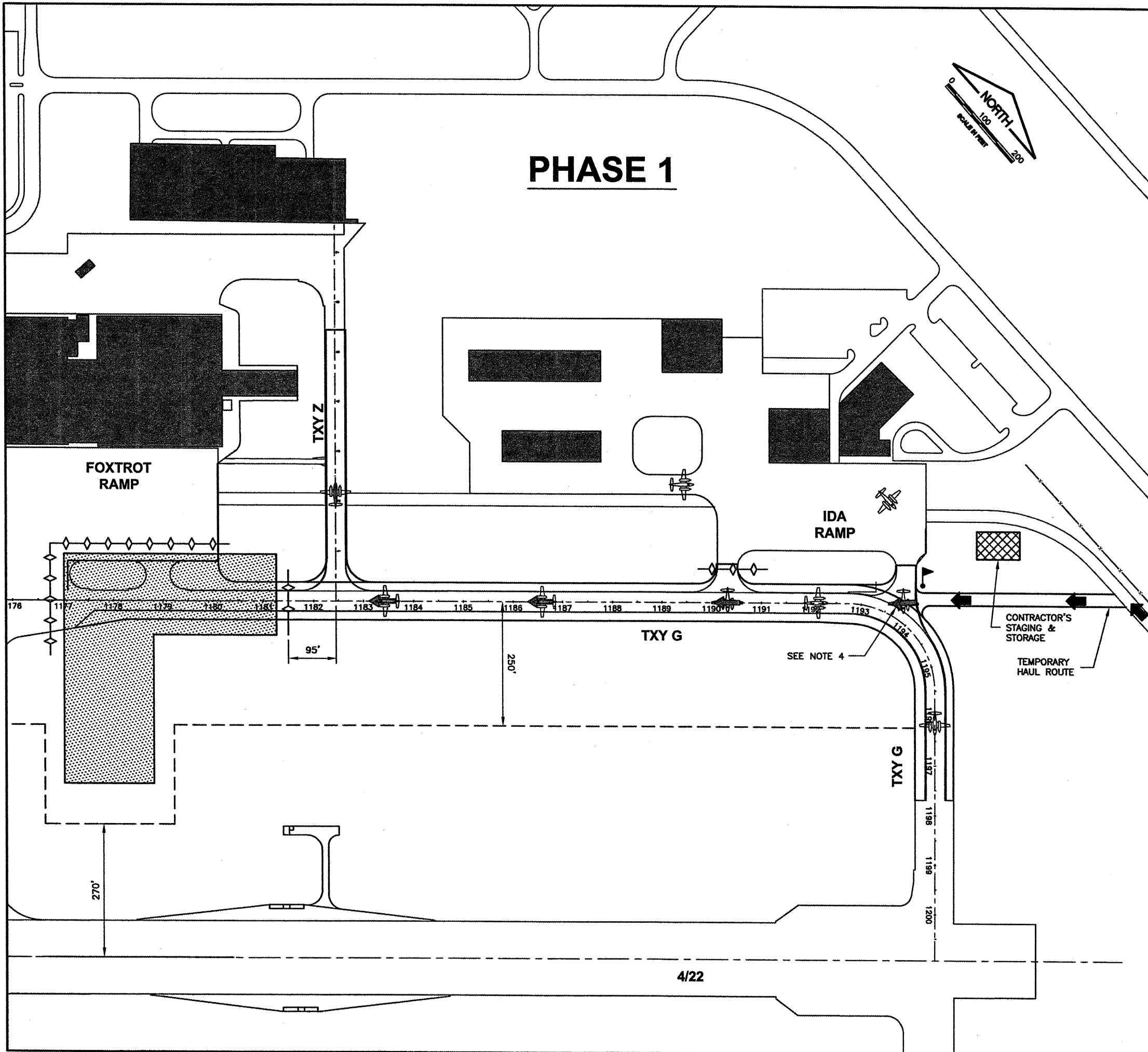
**WIDEN TAXIWAY G - PHASE 2**  
**AIRPORT SITE PLAN**

  
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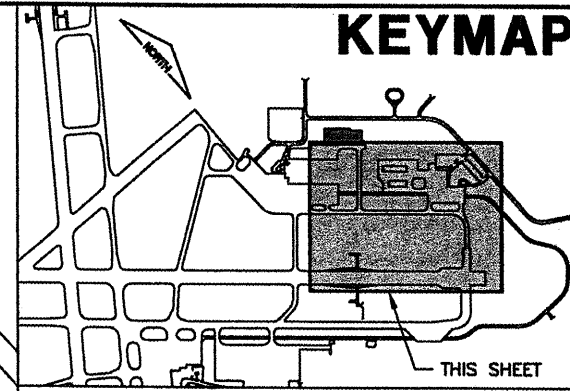
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DRAWN BY:	CMT
CHECKED BY:	RLN
APPROVED BY:	RLN
DATE:	01/30/2009
JOB No:	07035-09-00

IL PROJ. NO. SPI-3860  
 AIP PROJ. NO. 3-17-0096-XX  
 SHEET 03 OF 65 SHEETS

# PHASE 1



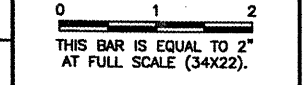
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 BASE\_PROPGEO  
 BASE\_EXISTGEO

CA007

REVISIONS		
NUMBER	BY	DATE



### LEGEND

- WORK LIMITS
- CONTRACTOR'S STAGING AND STORAGE
- CONSTRUCTION SET BACK LINE
- BARRICADES IDOT TYPE 1 WITH RED LIGHTS AND 20"x 20" ORANGE FLAGS AT 20' SPACING
- CONTRACTOR ACCESS
- FLAGMAN - IN CONTACT WITH AIR TRAFFIC CONTROL TOWER (ATCT)
- AIR TRAFFIC ACCESS
- CONTRACTOR AND AIRCRAFT ACCESS

### CONSTRUCTION ACTIVITY PLAN PHASING NOTES - PHASE 1

1. THE CONTRACTOR SHALL PLACE ALL BARRICADES AS SHOWN PRIOR TO STARTING WORK ON THIS PHASE.
2. THE AIRPORT WILL REQUIRE 3 CALENDAR DAYS NOTICE FROM THE CONTRACTOR PRIOR TO INITIATING THIS PHASE TO COORDINATE WITH THE TENANTS.
3. ACCESS TO TAXIWAY Z SHALL BE CONTINUOUS THROUGH PHASE 1.
4. ACCESS THROUGH THIS AREA SHALL BE CLOSELY COORDINATED WITH TENANTS THROUGH THE AIRPORT. THE CONTRACTOR SHALL PROVIDE A FLAGMAN IN THIS AREA TO COORDINATE ACCESS AND HAULING TRAFFIC. THE CONTRACTOR SHALL CONTINUOUSLY CLEAN THIS AREA DURING HAULING OPERATIONS.
5. WORK OUTSIDE THE LIMITS OF PHASES 1, 2, 3 AND 4 SHALL BE COORDINATED IN ADVANCE WITH THE AIRPORT AND PERFORMED UNDER RADIO CONTROL.

### CLOSED PAVEMENT AREAS

- TAXIWAY G FROM STA. 1177+00 TO STA. 1181+50



SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY G - PHASE 2

CONSTRUCTION ACTIVITY PLAN 1

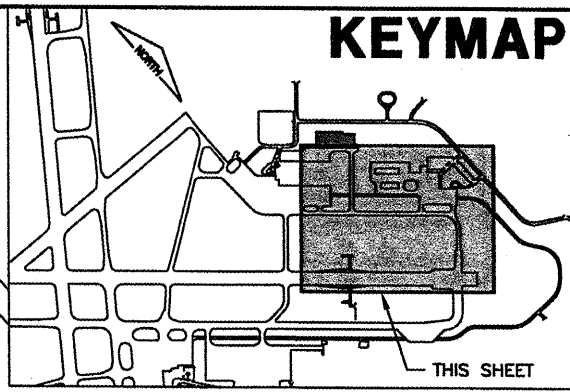
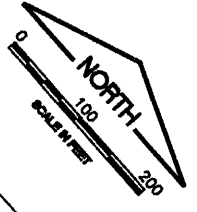
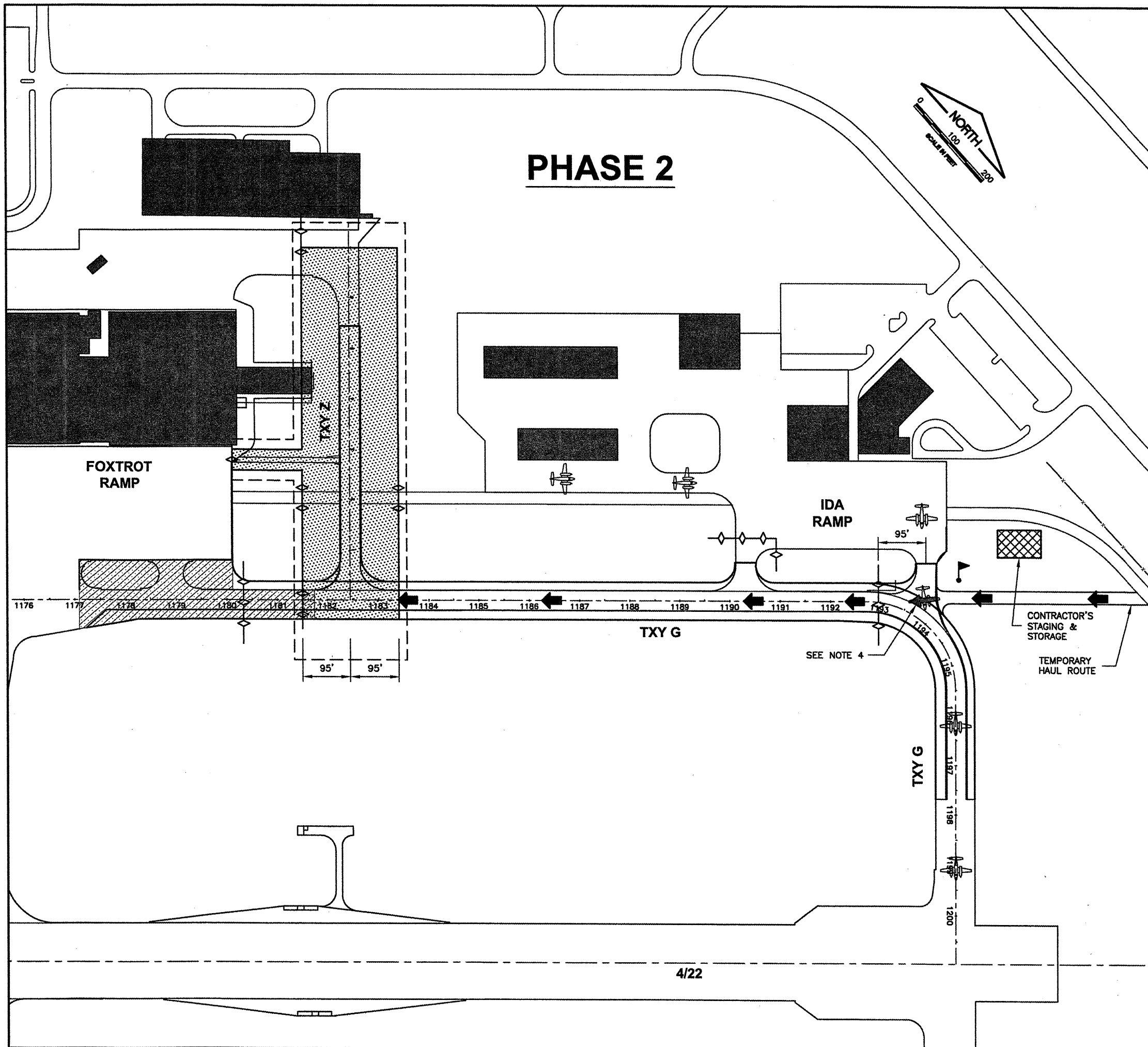
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DESIGN BY:	CBG
DRAWN BY:	CMT
CHECKED BY:	RLW
APPROVED BY:	RLW
DATE:	01/30/2009
JOB No:	07035-09-00
IL PROJ. NO.	SPI-3860
AIP PROJ. NO.	3-17-0096-XX
SHEET	04 OF 65 SHEETS

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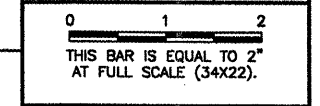
# PHASE 2



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 BASE\_PROPGE0

CA007

REVISIONS		
NUMBER	BY	DATE



- ### LEGEND
- WORK LIMITS
  - CONTRACTOR'S STAGING AND STORAGE
  - COMPLETED CONSTRUCTION
  - CONSTRUCTION SET BACK LINE
  - BARRICADES IDOT TYPE 1 WITH RED LIGHTS AND 20"x 20" ORANGE FLAGS AT 20' SPACING
  - CONTRACTOR ACCESS
  - FLAGMAN - IN CONTACT WITH AIR TRAFFIC CONTROL TOWER (ATCT)
  - AIR TRAFFIC ACCESS
  - CONTRACTOR AND AIRCRAFT ACCESS

- ### CONSTRUCTION ACTIVITY PLAN PHASING NOTES - PHASE 2
1. THE CONTRACTOR SHALL PLACE ALL BARRICADES AS SHOWN PRIOR TO STARTING WORK ON THIS PHASE.
  2. THE AIRPORT WILL REQUIRE 7 CALENDAR DAYS NOTICE FROM THE CONTRACTOR PRIOR TO INITIATING THIS PHASE TO COORDINATE WITH THE TENANTS.
  3. THE CONTRACTOR WILL BE ALLOWED TO CLOSE TAXIWAY Z FOR 14 CONSECUTIVE CALENDAR DAYS TO COMPLETE THE WORK. WORK REQUIRED BEYOND THE CLOSURE PERIOD SHALL BE COMPLETED UNDER RADIO CONTROL.
  4. ACCESS THROUGH THIS AREA SHALL BE CLOSELY COORDINATED WITH TENANTS THROUGH THE AIRPORT. THE CONTRACTOR SHALL PROVIDE A FLAGMAN IN THIS AREA TO COORDINATE ACCESS AND HAULING TRAFFIC. THE CONTRACTOR SHALL CONTINUOUSLY CLEAN THIS AREA DURING HAULING OPERATIONS.

- ### CLOSED PAVEMENT AREAS
- TAXIWAY G FROM STATION 1181+50 TO STATION 1192+90
  - SOUTH IDA RAMP TAXIWAY
  - TAXIWAY Z

SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS  
 WIDEN TAXIWAY G - PHASE 2  
 CONSTRUCTION ACTIVITY PLAN 2

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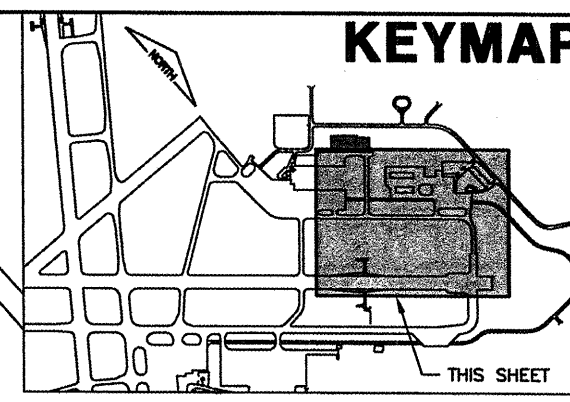
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JOB No:	07035-09-00
IL PROJ. NO. SPI-3860	
AIP PROJ. NO. 3-17-0096-XX	
SHEET 05 OF 65 SHEETS	

4/22

# PHASE 3

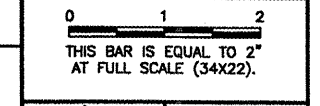
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CA007

REVISIONS		
NUMBER	BY	DATE



### LEGEND

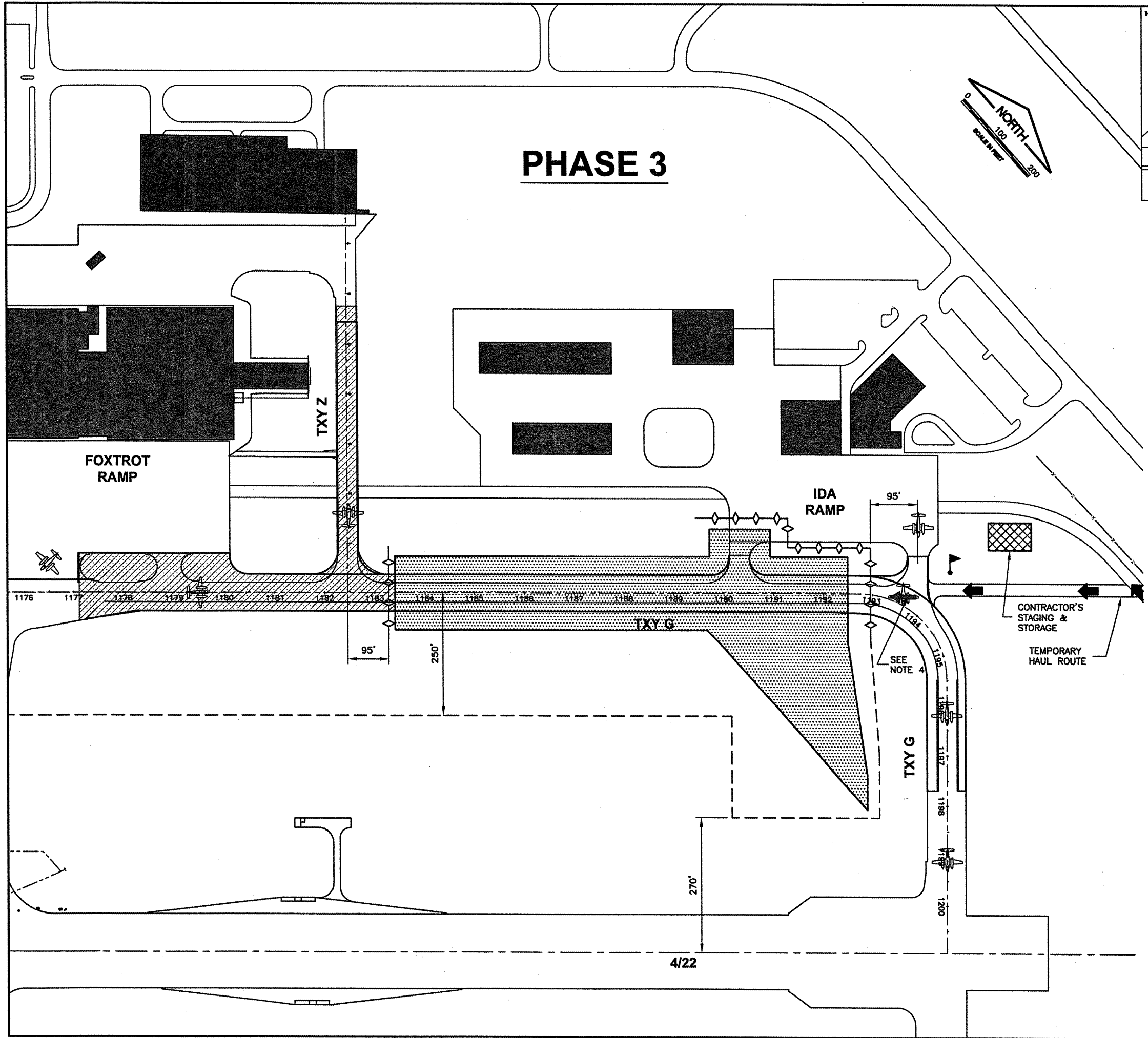
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- CONTRACTOR'S STAGING AND STORAGE
- COMPLETED CONSTRUCTION
- CONSTRUCTION SET BACK LINE
- BARRICADES IDOT TYPE 1 WITH RED LIGHTS AND 20"x 20" ORANGE FLAGS AT 20' SPACING
- CONTRACTOR ACCESS
- FLAGMAN - IN CONTACT WITH AIR TRAFFIC CONTROL TOWER (ATCT)
- AIR TRAFFIC ACCESS
- CONTRACTOR AND AIRCRAFT ACCESS

### CONSTRUCTION ACTIVITY PLAN PHASING NOTES - PHASE 3

1. THE CONTRACTOR SHALL PLACE ALL BARRICADES AS SHOWN PRIOR TO STARTING WORK ON THIS PHASE.
2. THE AIRPORT WILL REQUIRE 3 CALENDAR DAYS NOTICE FROM THE CONTRACTOR PRIOR TO INITIATING THIS PHASE TO COORDINATE WITH THE TENANTS.
3. PHASE 3 MAY BE CONCURRENT WITH PHASE 2 PROVIDED THAT IT DOES NOT IMPACT THE PROGRESS OF THE PHASE 2 WORK.
4. ACCESS THROUGH THIS AREA SHALL BE CLOSELY COORDINATED WITH TENANTS THROUGH THE AIRPORT. THE CONTRACTOR SHALL PROVIDE A FLAGMAN IN THIS AREA TO COORDINATE ACCESS AND HAULING TRAFFIC. THE CONTRACTOR SHALL CONTINUOUSLY CLEAN THIS AREA DURING HAULING OPERATIONS.

### CLOSED PAVEMENT AREAS

- TAXIWAY G FROM STA. 1183+25 TO STA. 1192+90
- SOUTH IDA RAMP TAXIWAY



SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY G - PHASE 2  
 CONSTRUCTION ACTIVITY PLAN 3

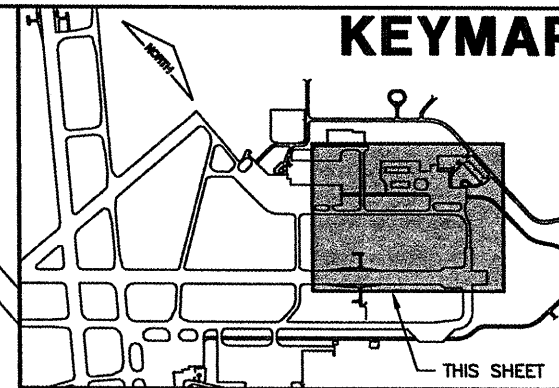
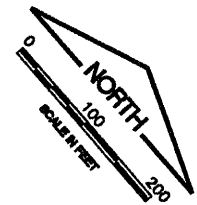
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APPROVED BY:	RLV
DATE:	01/30/2009
JOB No:	07035-09-00
IL PROJ. NO. SPI-3860 AIP PROJ. NO. 3-17-0096-XX	
SHEET 06 OF 65 SHEETS	

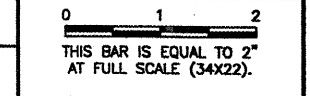
# PHASE 4



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CA007

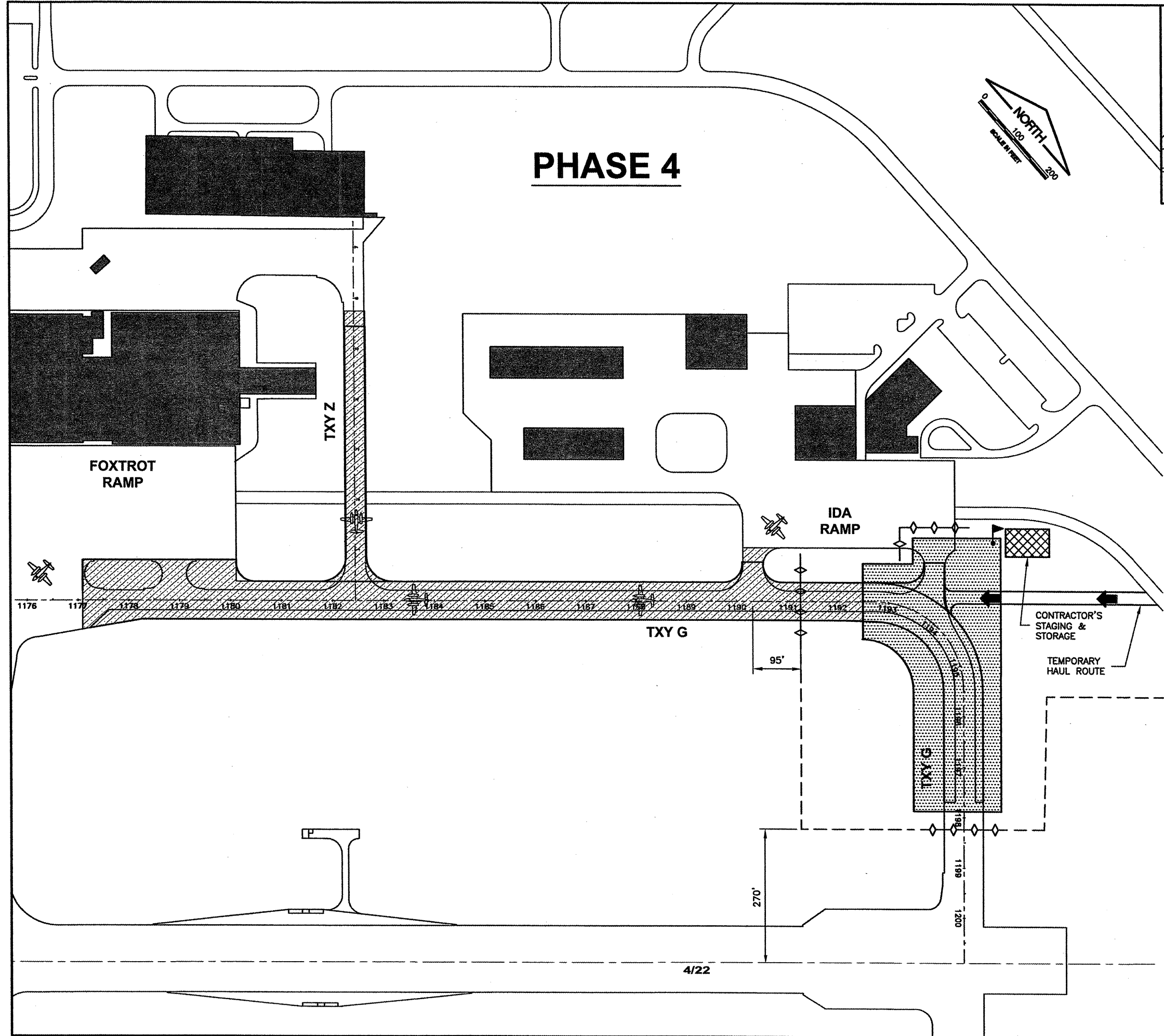
REVISIONS		
NUMBER	BY	DATE



- ### LEGEND
- WORK LIMITS
  - CONTRACTOR'S STAGING AND STORAGE
  - COMPLETED CONSTRUCTION
  - CONSTRUCTION SET BACK LINE
  - BARRICADES IDOT TYPE 1 WITH RED LIGHTS AND 20"x 20" ORANGE FLAGS AT 20' SPACING
  - CONTRACTOR ACCESS
  - FLAGMAN - IN CONTACT WITH AIR TRAFFIC CONTROL TOWER (ATCT)
  - AIR TRAFFIC ACCESS
  - CONTRACTOR AND AIRCRAFT ACCESS

- ### CONSTRUCTION ACTIVITY PLAN PHASING NOTES - PHASE 4
1. THE CONTRACTOR SHALL PLACE ALL BARRICADES AS SHOWN PRIOR TO STARTING WORK ON THIS PHASE.
  2. THE AIRPORT WILL REQUIRE 3 CALENDAR DAYS NOTICE FROM THE CONTRACTOR PRIOR TO INITIATING THIS PHASE TO COORDINATE WITH THE TENANTS.
  3. THE NORTH AND SOUTH IDA RAMP TAXIWAYS MAY NOT BE CLOSED AT THE SAME TIME.

- ### CLOSED PAVEMENT AREAS
- TAXIWAY G FROM STA. 1191+25 TO CONNECTING TAXIWAY G
  - CONNECTING TAXIWAY G
  - NORTH IDA RAMP TAXIWAY



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 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS  
 WIDEN TAXIWAY G - PHASE 2  
 CONSTRUCTION ACTIVITY PLAN 4

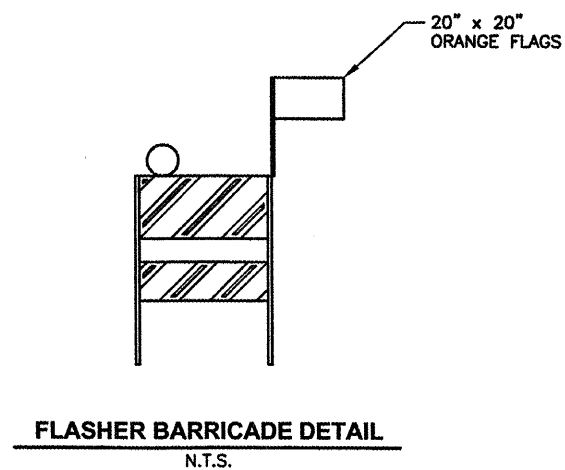
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DATE:	01/30/2009
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SHEET 07 OF 65 SHEETS	

CA007

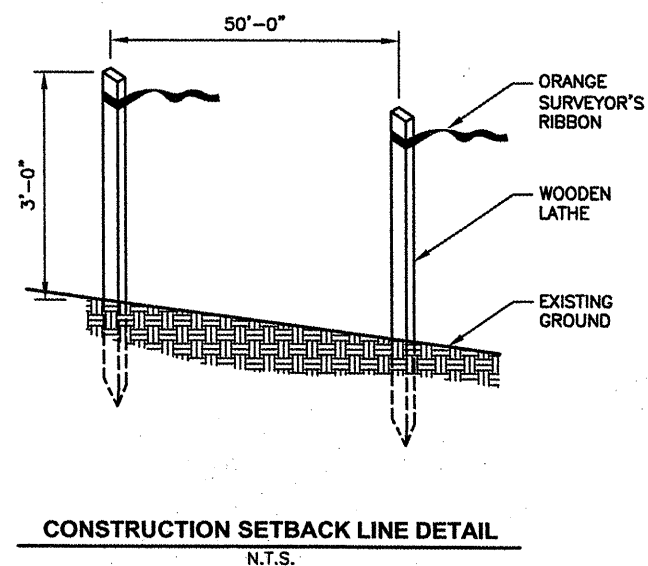
REVISIONS		
NUMBER	BY	DATE

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



**FLASHER BARRICADE NOTES**

1. FLASHERS TO BE BATTERY OPERATED. LENS TO BE RED AND BE ABLE TO ROTATE 90 DEGREES.
2. SANDBAGS TO BE PLACED ON EACH SUPPORT BRACE AS REQUIRED TO PREVENT DISPLACEMENT BY WIND, JET OR PROP BLAST.
3. NO SEPARATE PAYMENT WILL BE MADE FOR THIS ITEM. COSTS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
4. PLACE AT 20' INTERVALS.



**CONTRACTOR ACCESS ROUTE NOTES**

1. THE PROPOSED CONTRACTOR'S ACCESS ROUTE (EXISTING NORTHEAST PERIMETER ROAD) PAVEMENT STRUCTURE IS:
  - 3" BITUMINOUS SURFACE COURSE (PLACED 2005 AND 2008) - EXCELLENT CONDITION
  - 3" BITUMINOUS SURFACE COURSE (PLACED 1988)
  - 6" CRUSHED AGGREGATE BASE COURSE (PLACED 1988)
2. THE CONTRACTOR MAY USE THE EXISTING NORTHEAST PERIMETER ROAD FOR ACCESS IF HE FEELS THE PAVEMENT STRUCTURE IS SUFFICIENT TO SUPPORT HIS OPERATIONS WITHOUT DAMAGE OR DISTRESS.
3. IF THE CONTRACTOR ELECTS NOT TO USE THE EXISTING PERIMETER ROAD PAVEMENT, HE SHALL CONSTRUCT AN ACCESS ROUTE SUFFICIENT TO SUPPORT HIS OPERATIONS ON THE NORTH SIDE OF THE EXISTING PERIMETER ROAD.
4. ALL PAVEMENTS OR TURF AREAS UTILIZED BY THE CONTRACTOR FOR AN ACCESS ROUTE, STAGING, OR STORAGE SHALL BE REPAIRED AND RESTORED TO THEIR ORIGINAL CONDITION TO THE SATISFACTION OF THE AIRPORT. NO ADDITIONAL COMPENSATION TO PROTECT, REPAIR, OR RESTORE THESE AREAS SHALL BE MADE.



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 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY G - PHASE 2

CONSTRUCTION ACTIVITY PLAN DETAILS

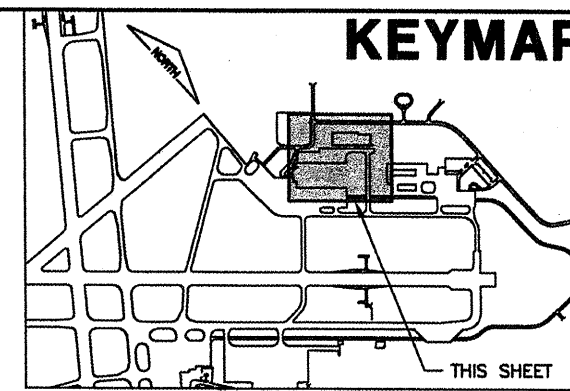
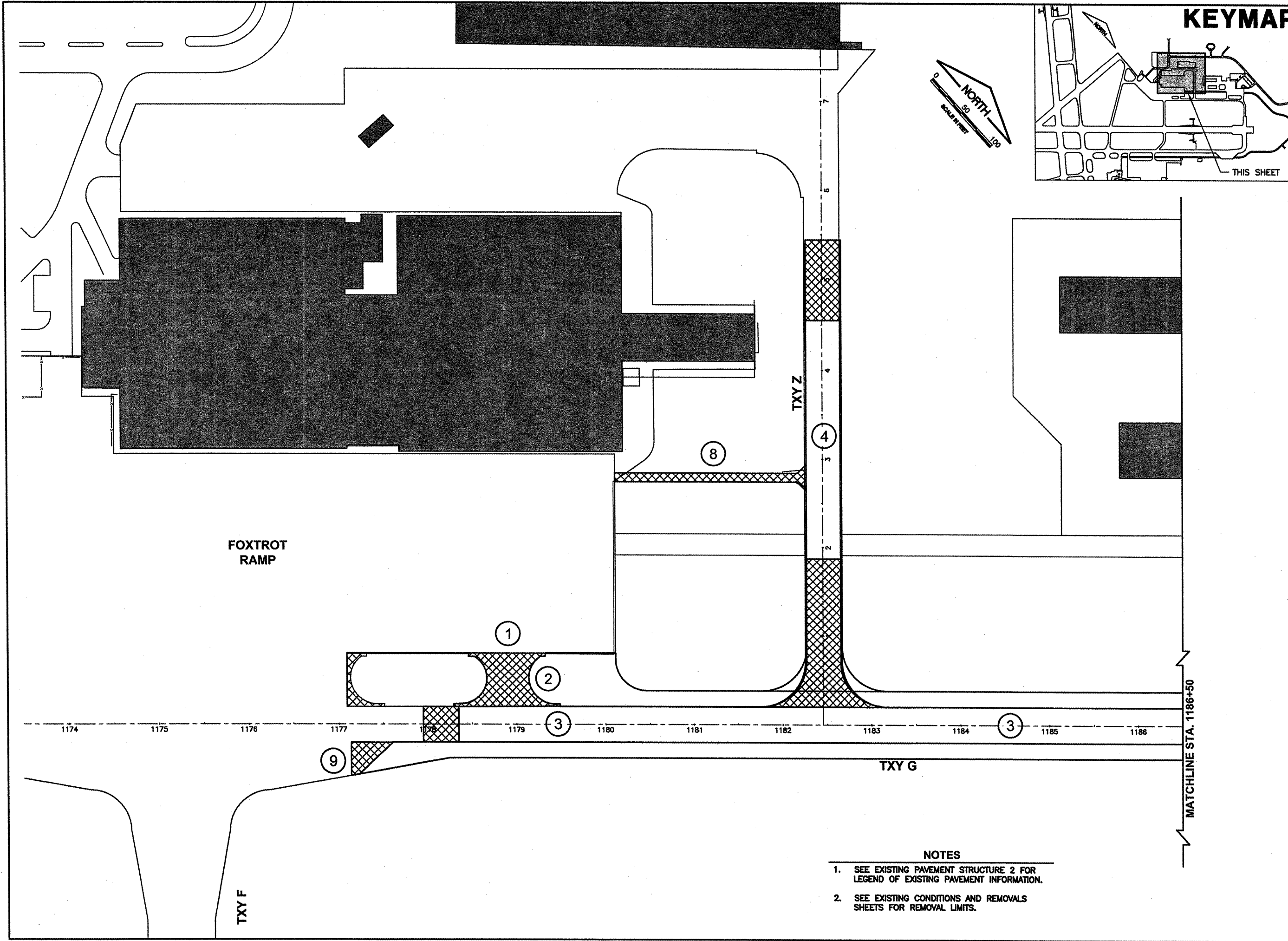
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 APPROVED BY: *RW*  
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 JOB No: 07035-09-00

IL PROJ. NO. SPI-3860  
 AIP PROJ. NO. 3-17-0096-XX






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CA007

REVISIONS		
NUMBER	BY	DATE

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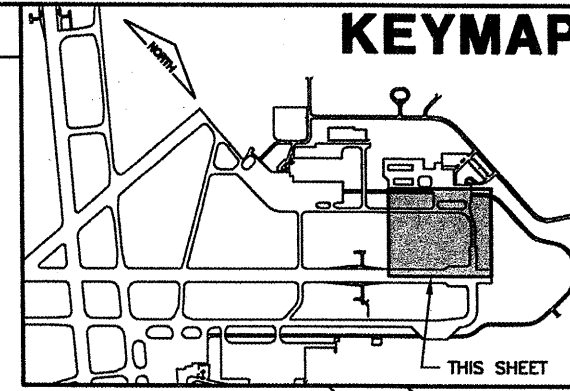
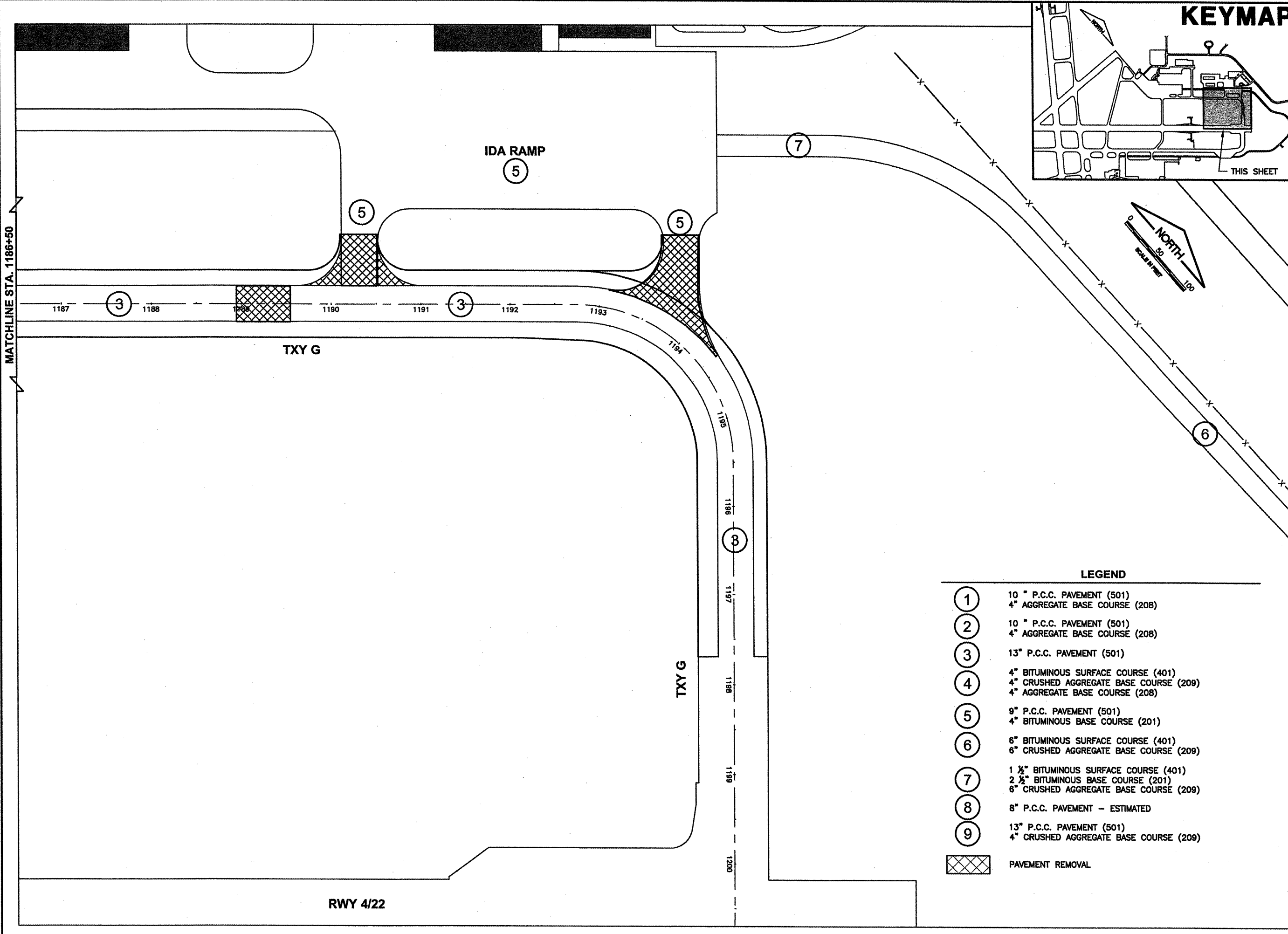
  
 SPRINGFIELD AIRPORT AUTHORITY  
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 SPRINGFIELD, ILLINOIS

**WIDEN TAXIWAY G - PHASE 2  
 EXISTING PAVEMENT STRUCTURE 1**

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IL PROJ. NO.	SPI-3860
AIP PROJ. NO.	3-17-0096-XX
SHEET 09 OF 65 SHEETS	

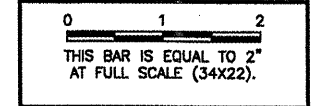
- NOTES**
1. SEE EXISTING PAVEMENT STRUCTURE 2 FOR LEGEND OF EXISTING PAVEMENT INFORMATION.
  2. SEE EXISTING CONDITIONS AND REMOVALS SHEETS FOR REMOVAL LIMITS.




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NUMBER	BY	DATE




  
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**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

**WIDEN TAXIWAY G - PHASE 2**  
**EXISTING PAVEMENT STRUCTURE 2**

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DATE:	01/30/2009
JOB No:	07035-09-00
IL PROJ. NO.	SPI-3860
AIP PROJ. NO.	3-17-0096-XX
SHEET	10 OF 65 SHEETS

**LEGEND**

- ① 10" P.C.C. PAVEMENT (501)  
4" AGGREGATE BASE COURSE (208)
- ② 10" P.C.C. PAVEMENT (501)  
4" AGGREGATE BASE COURSE (208)
- ③ 13" P.C.C. PAVEMENT (501)
- ④ 4" BITUMINOUS SURFACE COURSE (401)  
4" CRUSHED AGGREGATE BASE COURSE (209)  
4" AGGREGATE BASE COURSE (208)
- ⑤ 9" P.C.C. PAVEMENT (501)  
4" BITUMINOUS BASE COURSE (201)
- ⑥ 6" BITUMINOUS SURFACE COURSE (401)  
6" CRUSHED AGGREGATE BASE COURSE (209)
- ⑦ 1 1/2" BITUMINOUS SURFACE COURSE (401)  
2 1/2" BITUMINOUS BASE COURSE (201)  
6" CRUSHED AGGREGATE BASE COURSE (209)
- ⑧ 8" P.C.C. PAVEMENT - ESTIMATED
- ⑨ 13" P.C.C. PAVEMENT (501)  
4" CRUSHED AGGREGATE BASE COURSE (209)
-  PAVEMENT REMOVAL

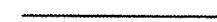

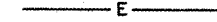
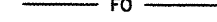




























THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER, THE DIVISION, NOR THE PROJECT ENGINEER ASSUMES ANY RESPONSIBILITY WHATSOEVER IN RESPECT TO THE ACCURACY, COMPLETENESS, OR SUFFICIENCY OF THE INFORMATION. THERE IS NO GUARANTEE,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

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY 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.

**EXISTING CONDITIONS AND REMOVALS NOTES**

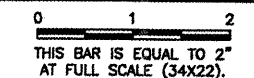
- EXISTING EDGE LIGHT CABLING IS SHOWN DISTORTED TO IMPROVE CLARITY.
- REMOVAL OF SPLICE CANS WHICH ARE PART OF SIGN BASES SHALL BE INCIDENTAL TO SIGN BASE REMOVAL.

**LEGEND**

	EXISTING PAVEMENT
	NEW PAVEMENT
	EXIST. ELECTRICAL CABLE
	EXIST. FIBER-OPTIC CABLE
	EXIST. STORM SEWER
	EXIST. UNDERDRAIN
	EXIST. FENCE
	EXIST. PAVEMENT MARKING
	EXIST. JOINT
	NEW REMOVAL
	NEW RELOCATION
	NEW ADJUSTMENT
	EXIST. BASE MOUNTED TAXIWAY LIGHT
	EXIST. STAKE MOUNTED TXY LIGHT
	EXIST. TAXIWAY REFLECTOR
	EXIST. FLUSH MOUNTED RUNWAY LIGHT
	EXIST. BASE MOUNTED RUNWAY LIGHT
	EXIST. BASE MOUNTED MALSR THRESHOLD LIGHT
	EXIST. THRESHOLD LIGHT
	EXIST. AIRFIELD SIGN
	EXIST. SPLICE CAN
	EXIST. OVERHEAD LIGHT
	EXIST. HANDHOLE
	EXIST. DUCT MARKER
	EXIST. COLLECTION STRUCTURE
	EXIST. CLEANOUT
	EXIST. INLET
	EXIST. MANHOLE
	EXIST. WINDSOCK
	EXIST. SOIL BORING
	EXIST. SIGN
	EXIST. PAVEMENT -- TO BE REMOVED

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SPRINGFIELD AIRPORT AUTHORITY  
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 SPRINGFIELD, ILLINOIS

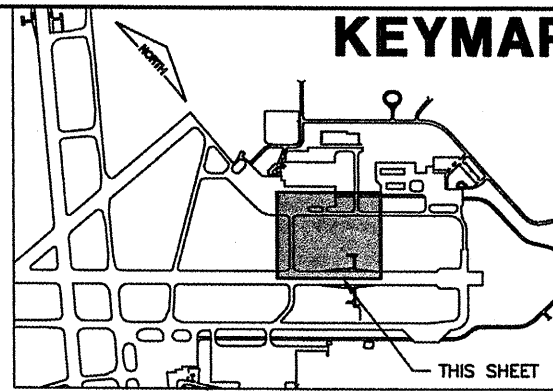
WIDEN TAXIWAY G - PHASE 2  
 EXISTING CONDITIONS & REMOVALS  
 LEGEND & NOTES

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APPROVED BY:	<i>RW</i>
DATE:	01/30/2009
JOB No:	07035-09-00
IL. PROJ. NO. SPI-3860 AIP PROJ. NO. 3-17-0096-XX	
SHEET 11 OF 65 SHEETS	

**NOTES:**  
 1. SEE EXISTING CONDITIONS & REMOVALS  
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 EXISTING CONDITIONS & REMOVALS.



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**CA007**

REVISIONS		
NUMBER	BY	DATE

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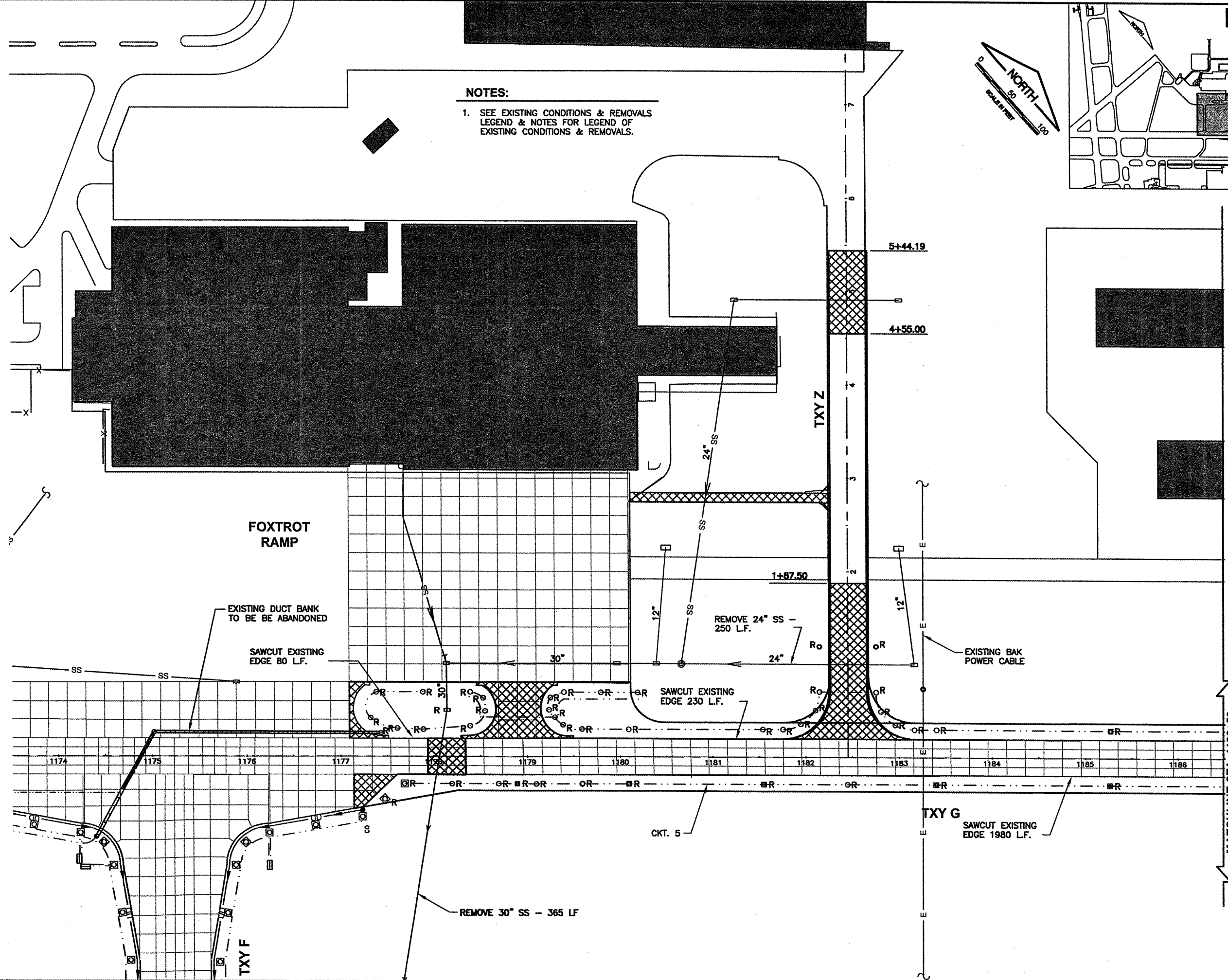
SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS

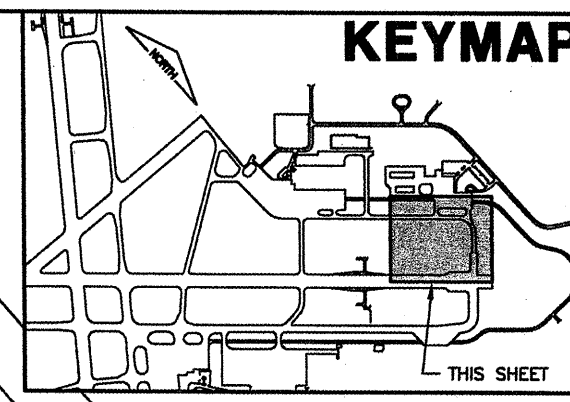
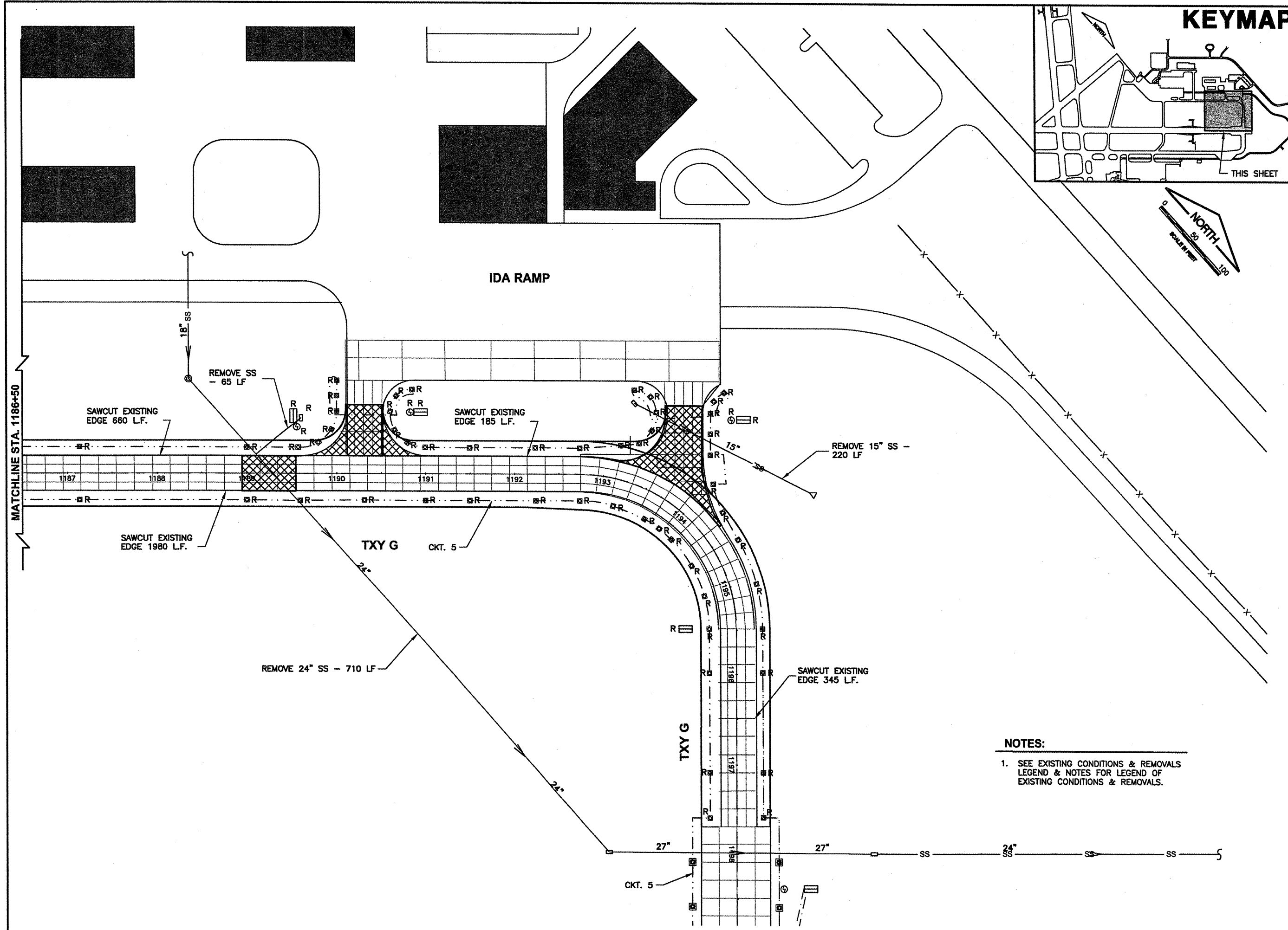
WIDEN TAXIWAY G - PHASE 2  
 EXISTING CONDITIONS & REMOVALS 1

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APPROVED BY:	<i>RLW</i>
DATE:	01/30/2009
JOB No:	07035-09-00
IL PROJ. NO.	SPI-3860
AIP PROJ. NO.	3-17-0096-XX
SHEET	12 OF 65 SHEETS






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**CA007**

REVISIONS		
NUMBER	BY	DATE

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 AT FULL SCALE (34x22).

  
**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

**WIDEN TAXIWAY G - PHASE 2**  
**EXISTING CONDITIONS & REMOVALS 2**

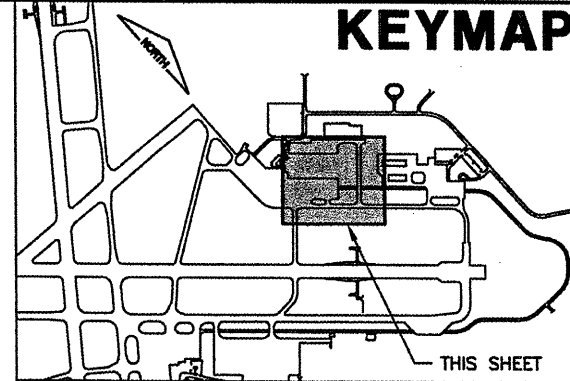
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**NOTES:**  
 1. SEE EXISTING CONDITIONS & REMOVALS  
 LEGEND & NOTES FOR LEGEND OF  
 EXISTING CONDITIONS & REMOVALS.

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DATE:	01/30/2009
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SHEET 13 OF 65 SHEETS	

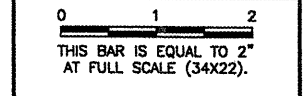
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 KEY


**KEYMAP**




**CA007**

REVISIONS		
NUMBER	BY	DATE

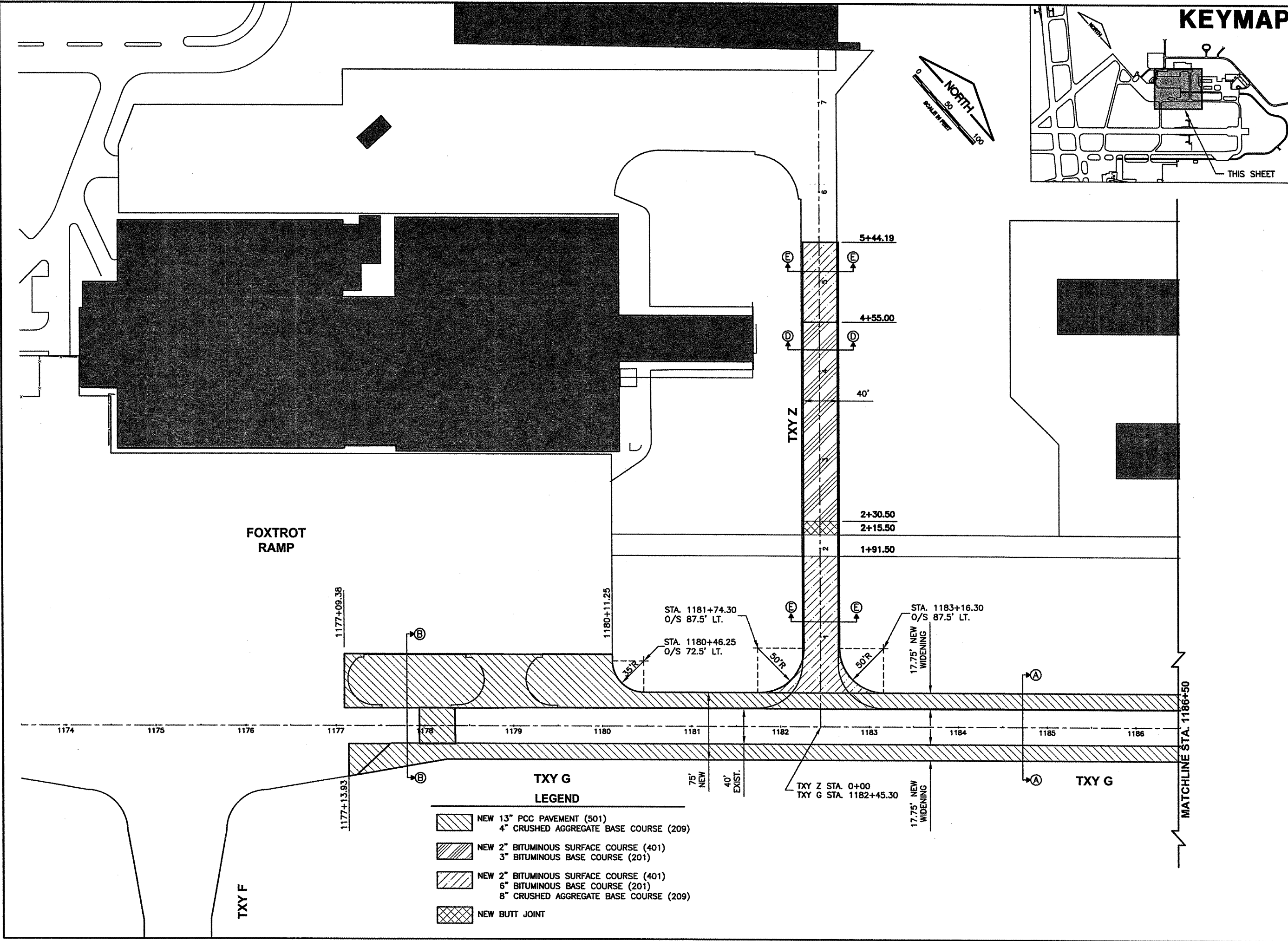


  
 SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS





WIDEN TAXIWAY G - PHASE 2  
 PROPOSED IMPROVEMENTS 1

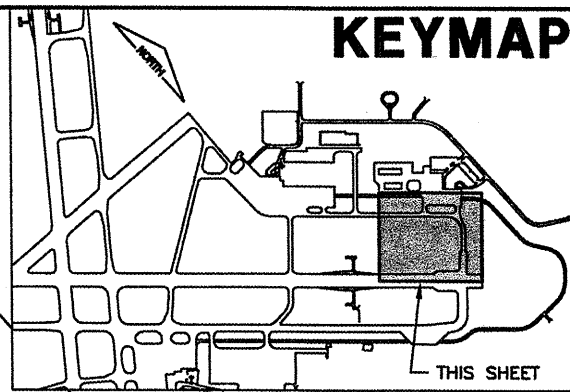
  
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DATE:	01/30/2009
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SHEET 14 OF 65 SHEETS	



**TXY G LEGEND**

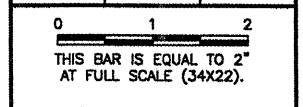
	NEW 13" PCC PAVEMENT (501) 4" CRUSHED AGGREGATE BASE COURSE (209)
	NEW 2" BITUMINOUS SURFACE COURSE (401) 3" BITUMINOUS BASE COURSE (201)
	NEW 2" BITUMINOUS SURFACE COURSE (401) 6" BITUMINOUS BASE COURSE (201) 8" CRUSHED AGGREGATE BASE COURSE (209)
	NEW BUTT JOINT




K:\Springfield\0703509\Draw\Sheets\Phase 2 Full  
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 UPDATE BY: Kristy Brod  
 PLOT DATE: 1/23/2009 1:53 PM  
 BASE\_EXISTGEO  
 BASE\_EXISTTOPO  
 KEY  
 BASE\_PROPGEO


CA007

REVISIONS		
NUMBER	BY	DATE

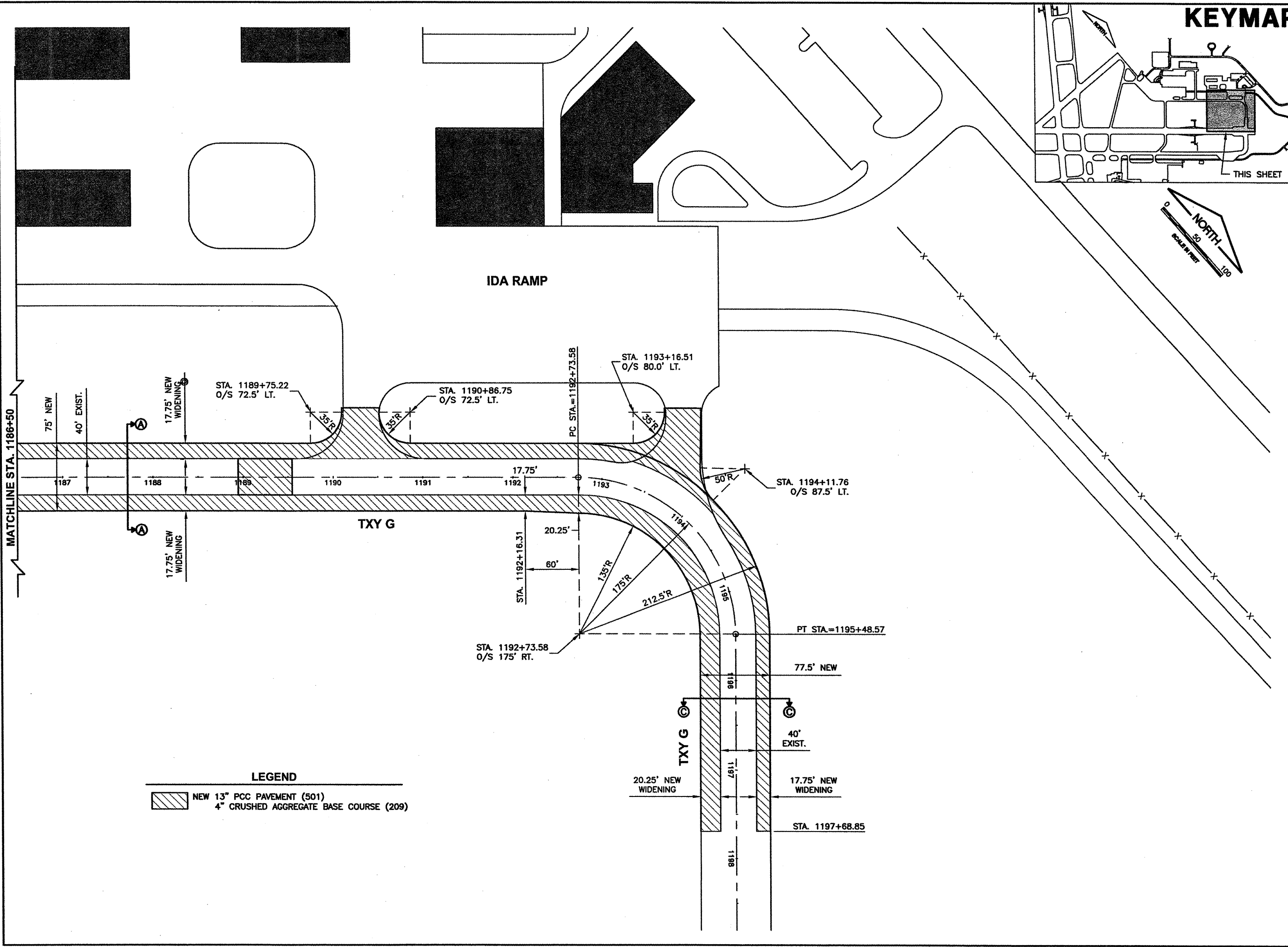


  
 SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY G - PHASE 2  
 PROPOSED IMPROVEMENTS 2

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DRAWN BY:	DPA
CHECKED BY:	RW
APPROVED BY:	RW
DATE:	01/30/2009
JOB No:	07035-09-00
IL PROJ. NO. SPI-3860	
AIP PROJ. NO. 3-17-0096-XX	
SHEET 15 OF 65 SHEETS	

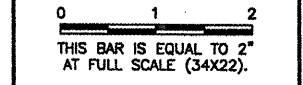


**LEGEND**

-  NEW 13" PCC PAVEMENT (501)
-  4" CRUSHED AGGREGATE BASE COURSE (209)

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REVISIONS		
NUMBER	BY	DATE



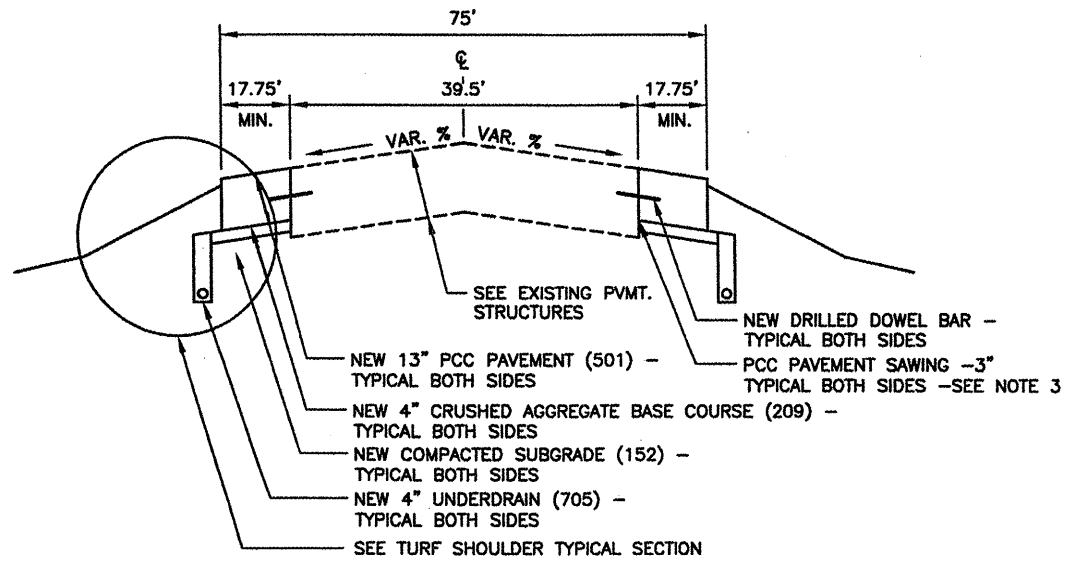
SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY G - PHASE 2  
 TYPICAL SECTIONS 1

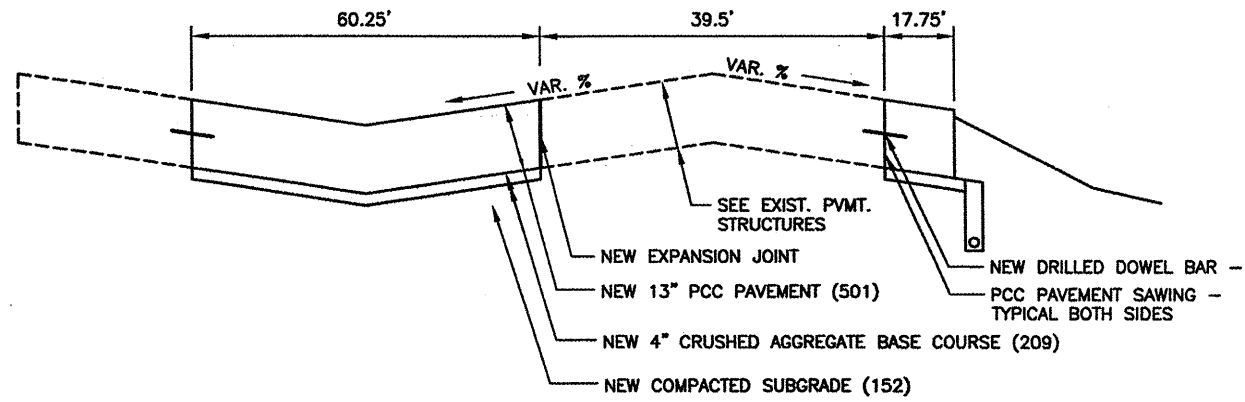
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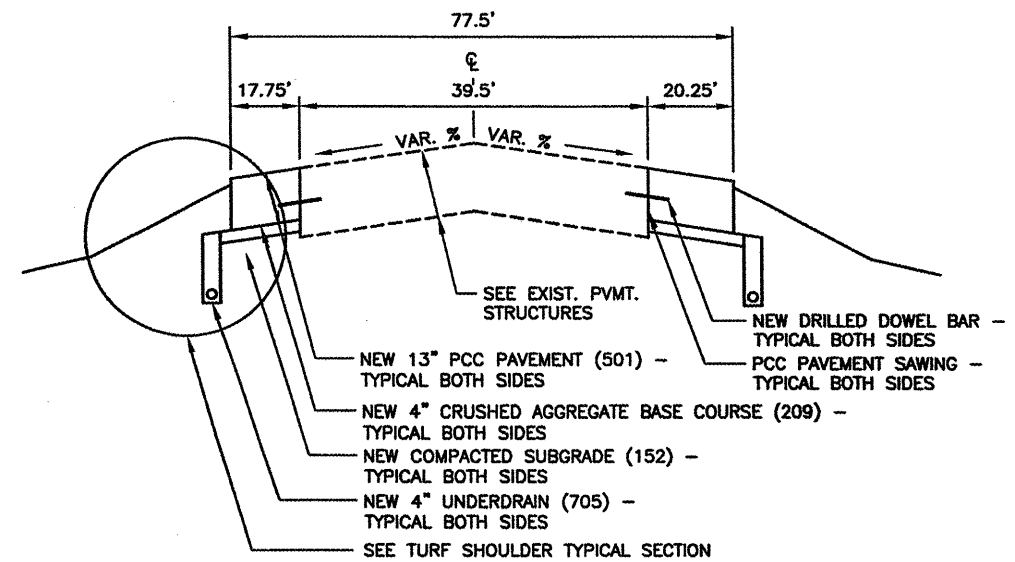
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IL PROJ. NO.	SPI-3860
AIP PROJ. NO.	3-17-0096-XX
SHEET 16 OF 65 SHEETS	



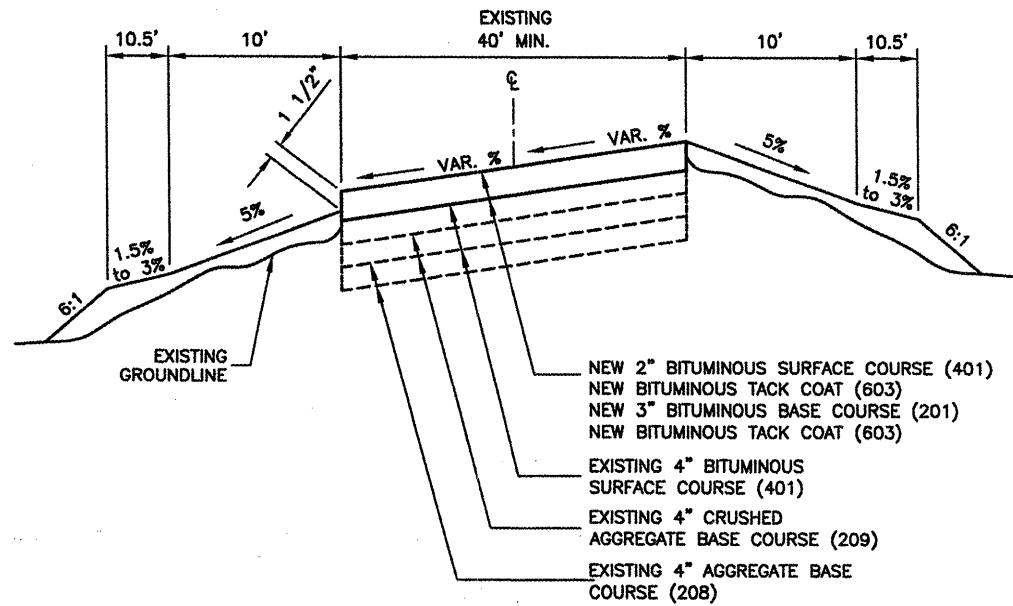
**(A) PARALLEL TAXIWAY G WIDENING (A)**  
N.T.S.



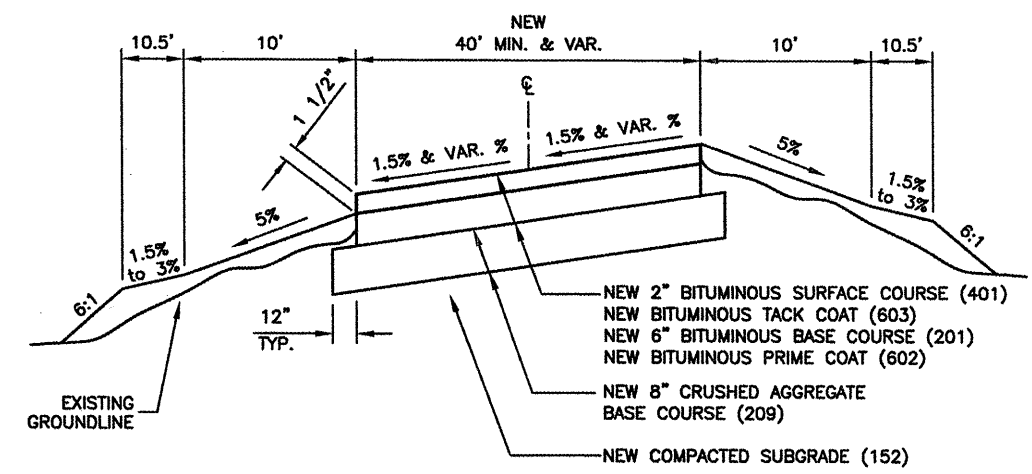
**(B) CONNECTING TAXIWAY G WIDENING AND FOXTROT RAMP EXPANSION (B)**  
N.T.S.



**(C) CONNECTING TAXIWAY G WIDENING (C)**  
N.T.S.



**(D) NEW TAXIWAY Z OVERLAY (D)**  
N.T.S.



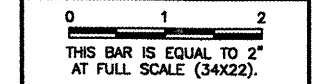
**(E) NEW TAXIWAY Z PAVEMENT (E)**  
N.T.S.

- NOTES:**
- SEE "PROPOSED IMPROVEMENTS" SHEETS FOR SECTION LOCATIONS.
  - SEE "JOINTING PLANS" FOR JOINT TYPES & LAYOUTS
  - NEW PAVEMENT WIDTH WILL BE TO A DIMENSION TO PROVIDE A MINIMUM TOTAL PAVEMENT WIDTH AS INDICATED IN THESE SECTIONS.



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 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS

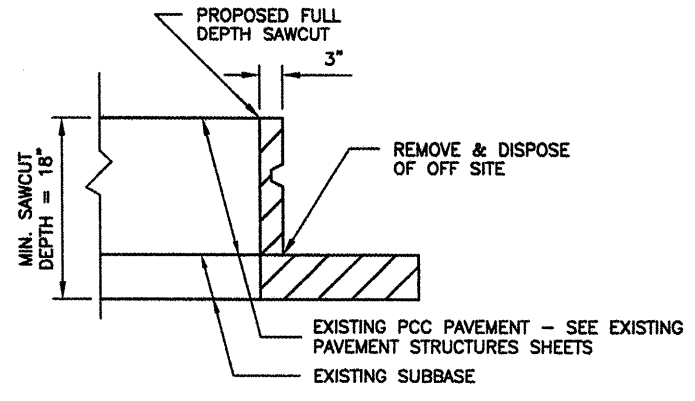
WIDEN TAXIWAY G - PHASE 2  
 TYPICAL SECTIONS 2

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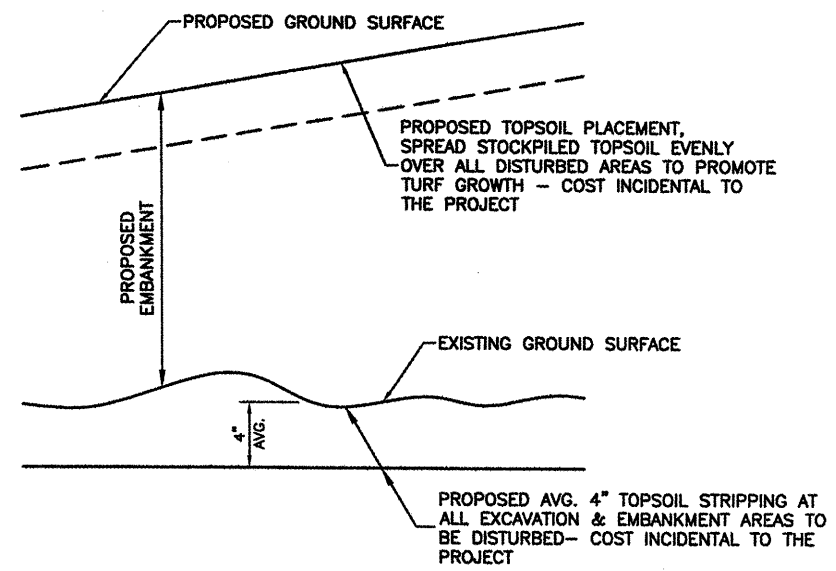


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DRAWN BY:	DPA
CHECKED BY:	RLW
APPROVED BY:	RLW
DATE:	01/30/2009
JOB No:	07035-09-00

IL PROJ. NO. SPI-3880  
 AIP PROJ. NO. 3-17-0096-XX

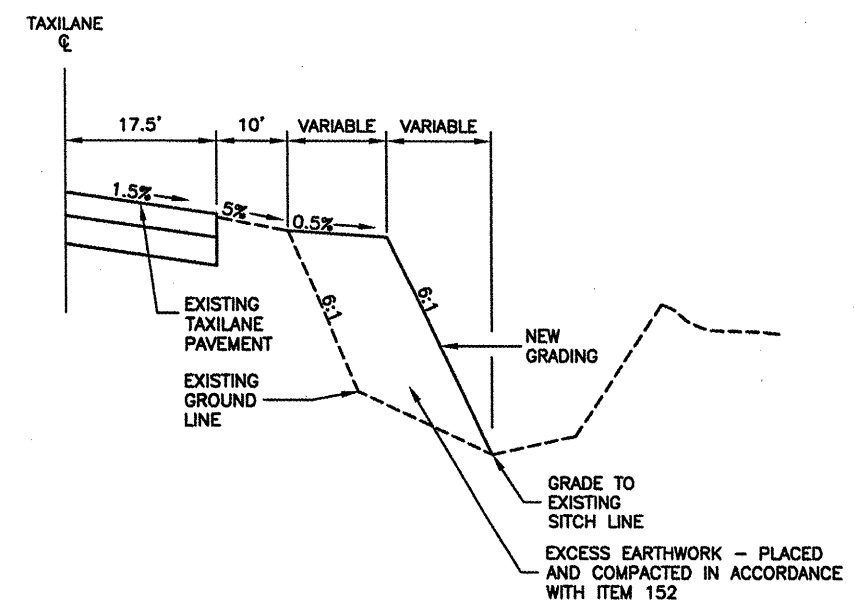


**PCC PAVEMENT EDGE SAWING DETAIL**  
 N.T.S.

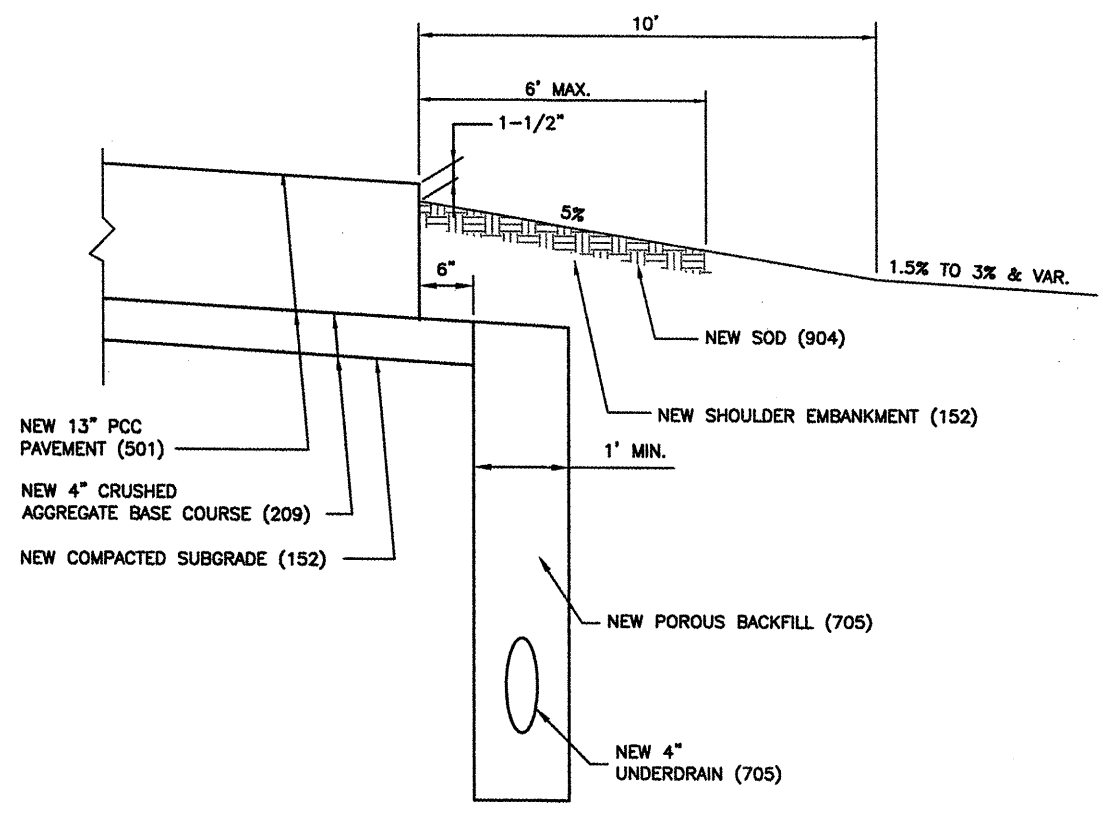


**TOPSOIL STRIPPING DETAIL**  
 N.T.S.

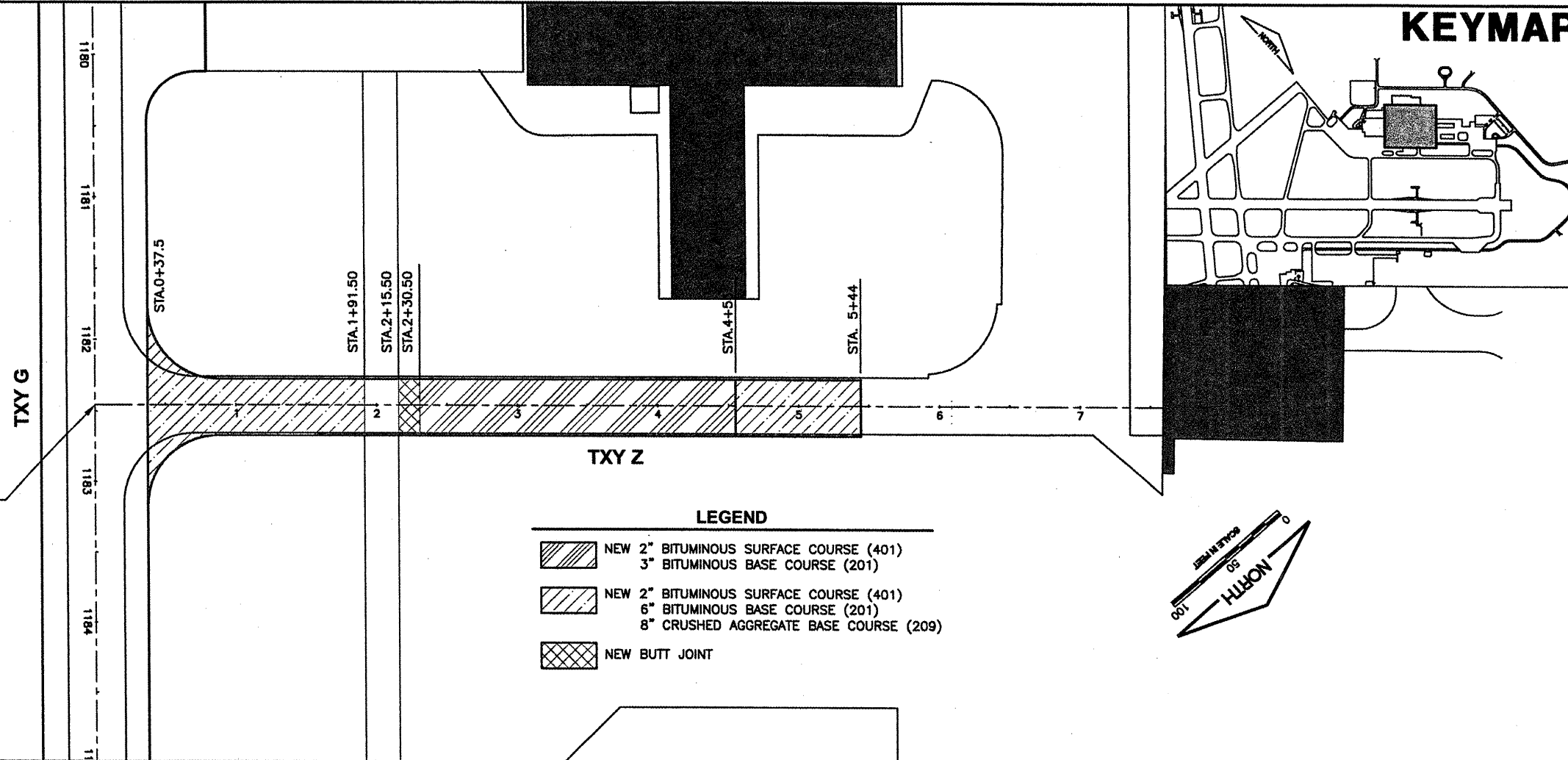
- NOTES:**
1. SEE "PROPOSED IMPROVEMENTS" SHEETS FOR SECTION LOCATIONS.
  2. SEE "JOINTING PLANS" FOR JOINT TYPES & LAYOUTS



**EXCESS EARTHWORK DISPOSAL AREA**  
 N.T.S.



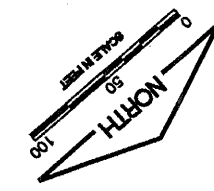
**NEW TURF SHOULDER - TYPICAL SECTION**  
 N.T.S.



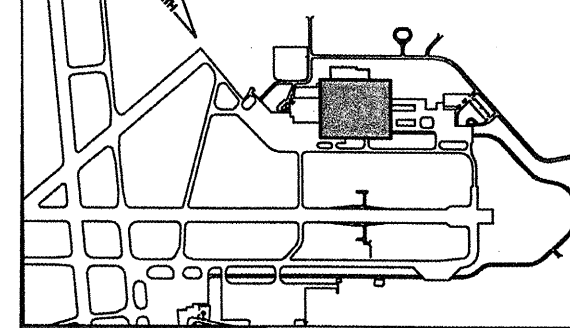
TAXIWAY Z STA. 0+00 =  
TAXIWAY G STA. 1182+45.30

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

- LEGEND**
- NEW 2" BITUMINOUS SURFACE COURSE (401)  
3" BITUMINOUS BASE COURSE (201)
  - NEW 2" BITUMINOUS SURFACE COURSE (401)  
6" BITUMINOUS BASE COURSE (201)  
8" CRUSHED AGGREGATE BASE COURSE (209)
  - NEW BUTT JOINT



**KEYMAP**



K:\Springfield\0703509\Draw\EGPT\Plot  
FILE: RCp01006.dwg  
UPDATE BY: Kristy Brod  
PLOT DATE: 1/26/2009 10:12 AM  
rprf006  
surveytopo  
BASE\_PROPGEO  
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KEY

**CA007**

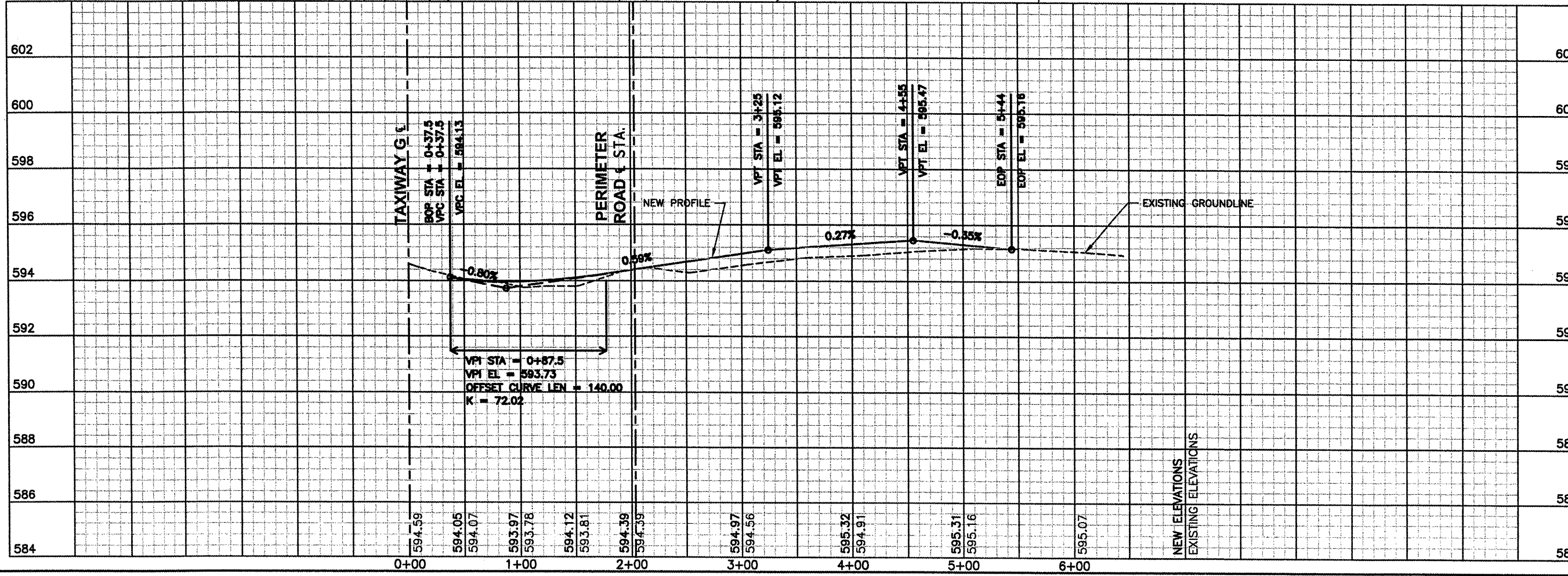
REVISIONS		
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0 1 2  
THIS BAR IS EQUAL TO 2'  
AT FULL SCALE (34X22).



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SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY G - PHASE 2  
TAXIWAY Z PLAN & PROFILE

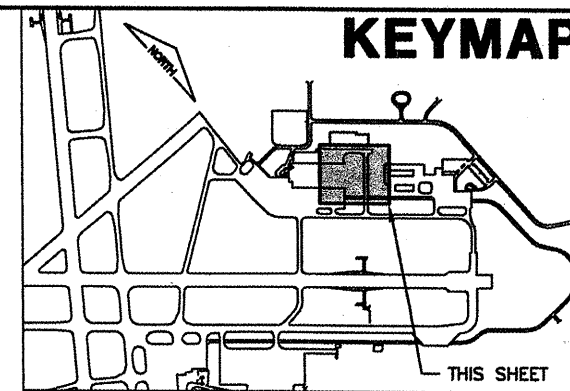


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CHECKED BY:	RLV
APPROVED BY:	RLV
DATE:	01/30/2009
JOB No:	07035-09-00

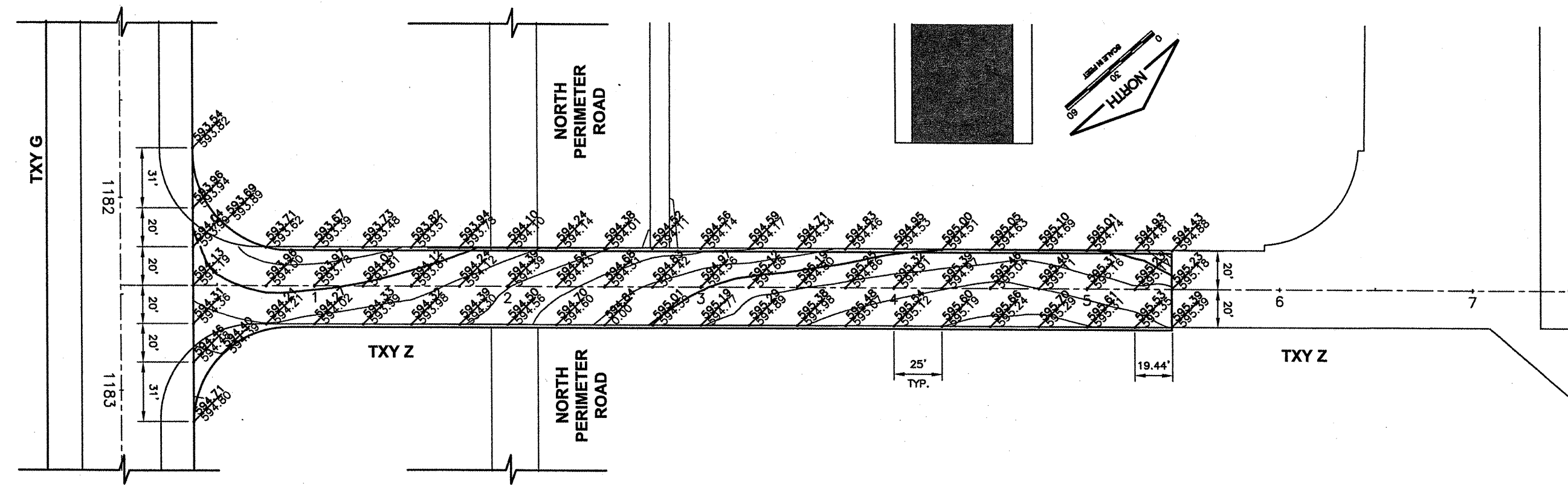
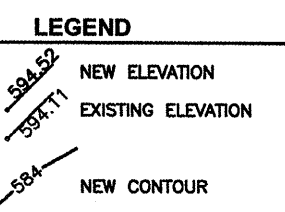
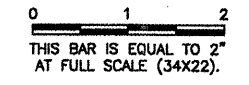
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AIP PROJ. NO. 3-17-0096-XX  
SHEET 18 OF 65 SHEETS



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 UPDATE BY: Kristy Brod  
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 BASE\_EXISTGEO  
 BASE\_PROPGEO  
 KEY  
 BASE\_PROPSAKE

CA007

REVISIONS		
NUMBER	BY	DATE



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 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS

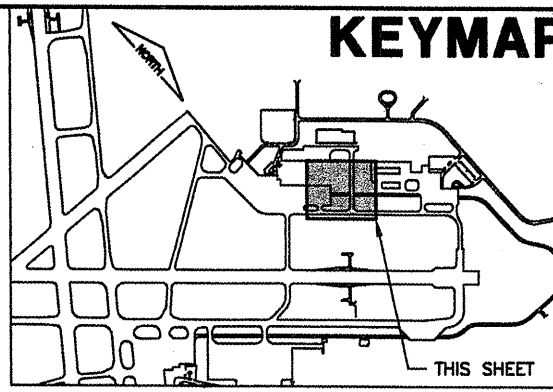
WIDEN TAXIWAY G - PHASE 2  
 TAXIWAY Z STAKING PLAN

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 CHECKED BY: *RW*  
 APPROVED BY: *RW*  
 DATE: 01/30/2009  
 JOB No: 07035-09-00

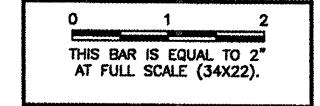
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 SHEET 19 OF 65 SHEETS



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 PLOT DATE: 1/21/2009 11:01 AM  
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 KEY  
 BASE\_PROPTAKE  
 BASE\_PROPRDRAIN

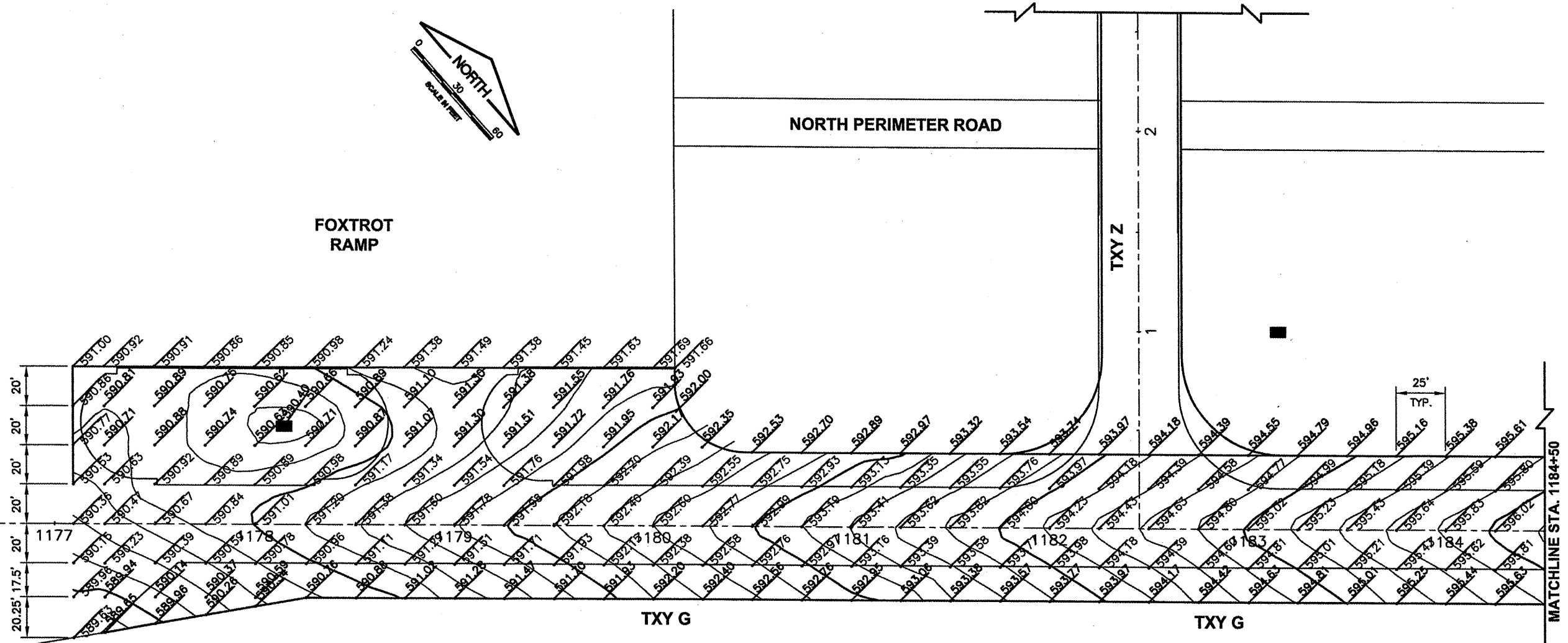
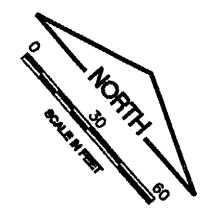
**CA007**


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NUMBER	BY	DATE



**LEGEND**

- NEW ELEVATION
- EXISTING ELEVATION
- NEW CONTOUR

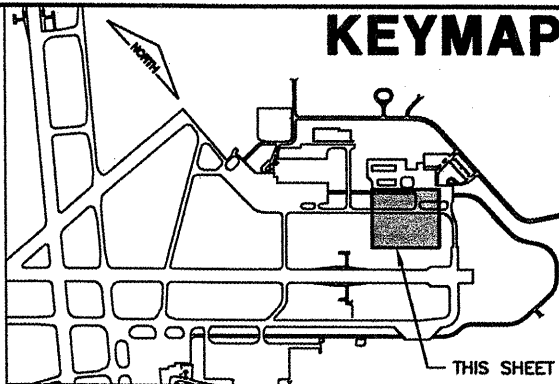
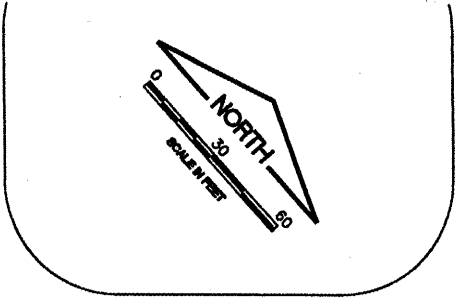
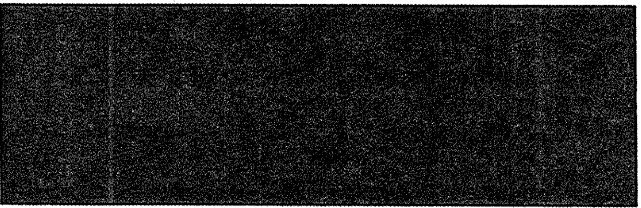


  
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**SPRINGFIELD, ILLINOIS**

**WIDEN TAXIWAY G - PHASE 2**  
**TAXIWAY G STAKING PLAN 1**

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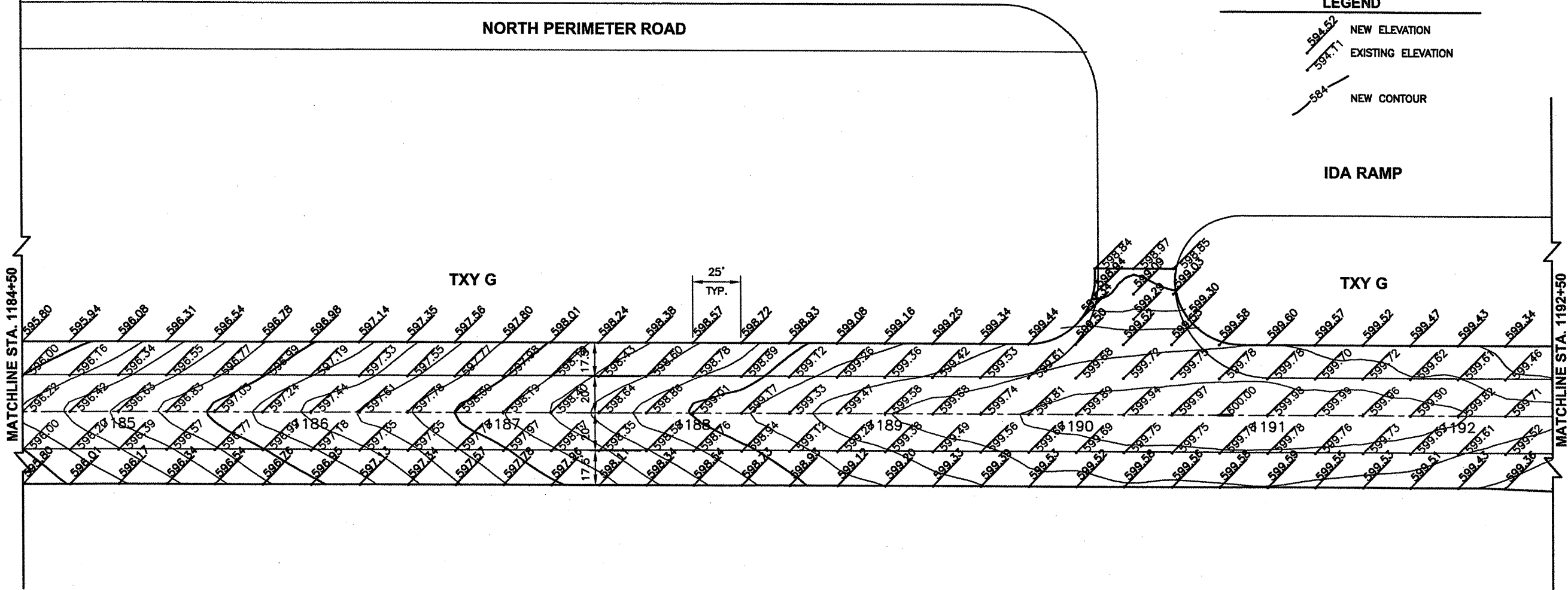
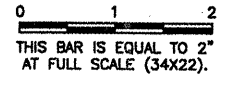
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DRAWN BY:	CMT
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DATE:	01/30/2009
JOB No:	07035-09-00
IL PROJ. NO. SPI-3860 AIP PROJ. NO. 3-17-0096-XX	
SHEET 20 OF 65 SHEETS	



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 PLOT DATE: 1/21/2009 11:01 AM  
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 KEY  
 BASE\_PROPSTAKE

CA007

REVISIONS		
NUMBER	BY	DATE



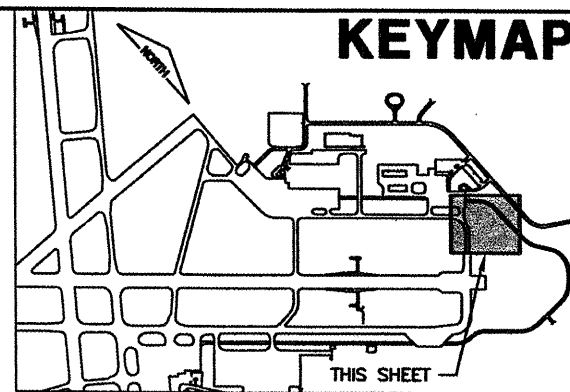
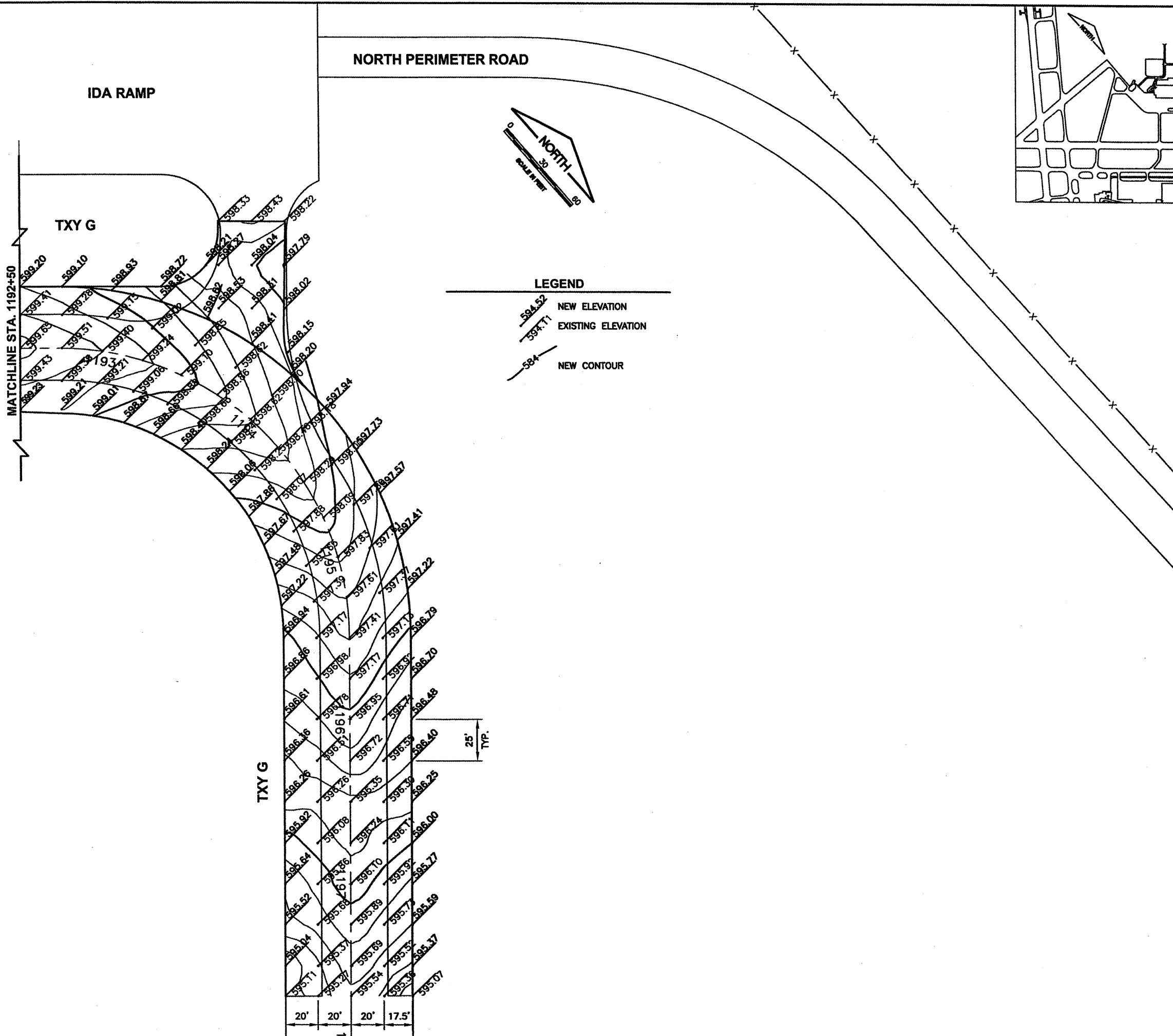
SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY G - PHASE 2  
 TAXIWAY G STAKING PLAN 2

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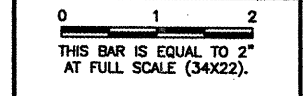
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IL PROJ. NO.	SPI-3860
AIP PROJ. NO.	3-17-0096-XX
SHEET	21 OF 65 SHEETS



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 BASE\_PROPGEO  
 KEY  
 BASE\_PRO PSTAKE

**CA007**

REVISIONS		
NUMBER	BY	DATE



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**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

**WIDEN TAXIWAY G - PHASE 2**  
**TAXIWAY G STAKING PLAN 3**

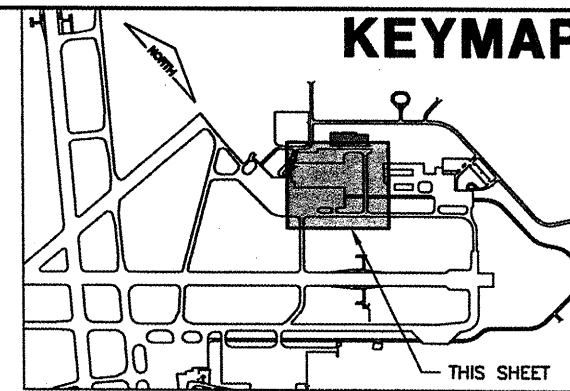
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DATE:	01/30/2009
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SHEET 22 OF 65 SHEETS	

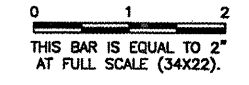
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 KEY



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NUMBER	BY	DATE



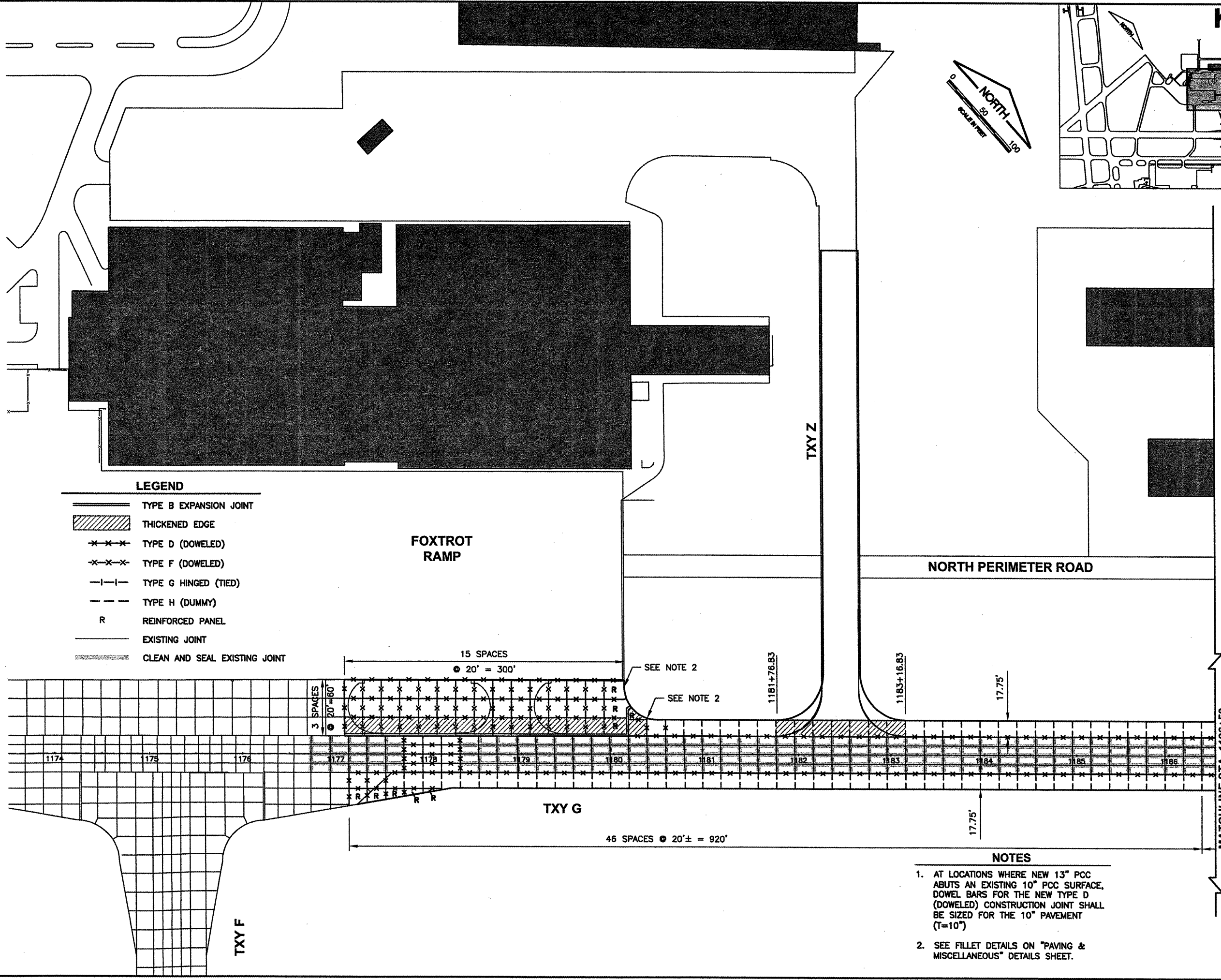
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 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY G - PHASE 2  
 JOINTING PLAN 1

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CHECKED BY:	REW
APPROVED BY:	REW
DATE:	01/30/2009
JOB No:	07035-09-00
IL PROJ. NO.	SPI-3860
AIP PROJ. NO.	3-17-0096-XX
SHEET 23 OF 65 SHEETS	



### LEGEND

- TYPE B EXPANSION JOINT
- THICKENED EDGE
- TYPE D (DOWELED)
- TYPE F (DOWELED)
- TYPE G HINGED (TIED)
- TYPE H (DUMMY)
- R REINFORCED PANEL
- EXISTING JOINT
- CLEAN AND SEAL EXISTING JOINT

FOXTROT RAMP

TXY Z

NORTH PERIMETER ROAD

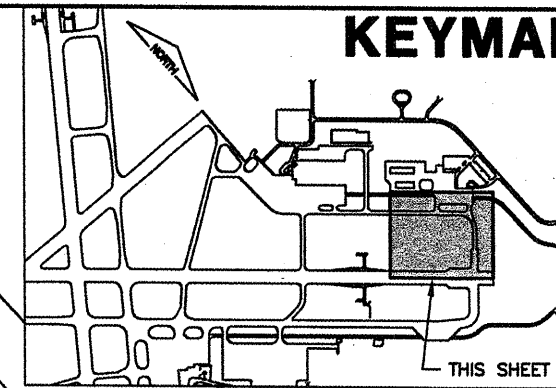
TXY G

TXY F

MATCHLINE STA. 1186+50

### NOTES

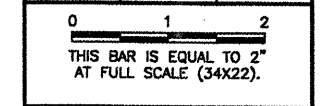
- AT LOCATIONS WHERE NEW 13" PCC ABUTS AN EXISTING 10" PCC SURFACE, DOWEL BARS FOR THE NEW TYPE D (DOWELED) CONSTRUCTION JOINT SHALL BE SIZED FOR THE 10" PAVEMENT (T=10")
- SEE FILLET DETAILS ON "PAVING & MISCELLANEOUS" DETAILS SHEET.



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 PLOT DATE: 1/21/2009 11:02 AM  
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 BASE\_PROPCED  
 BASE\_PROPJOINT  
 BASE\_EXISTTOPO

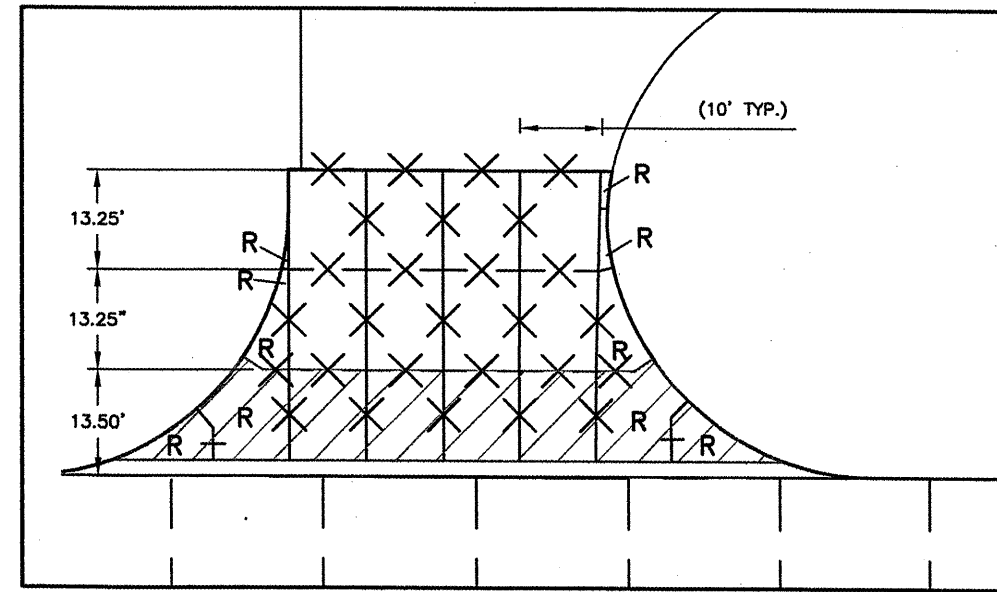
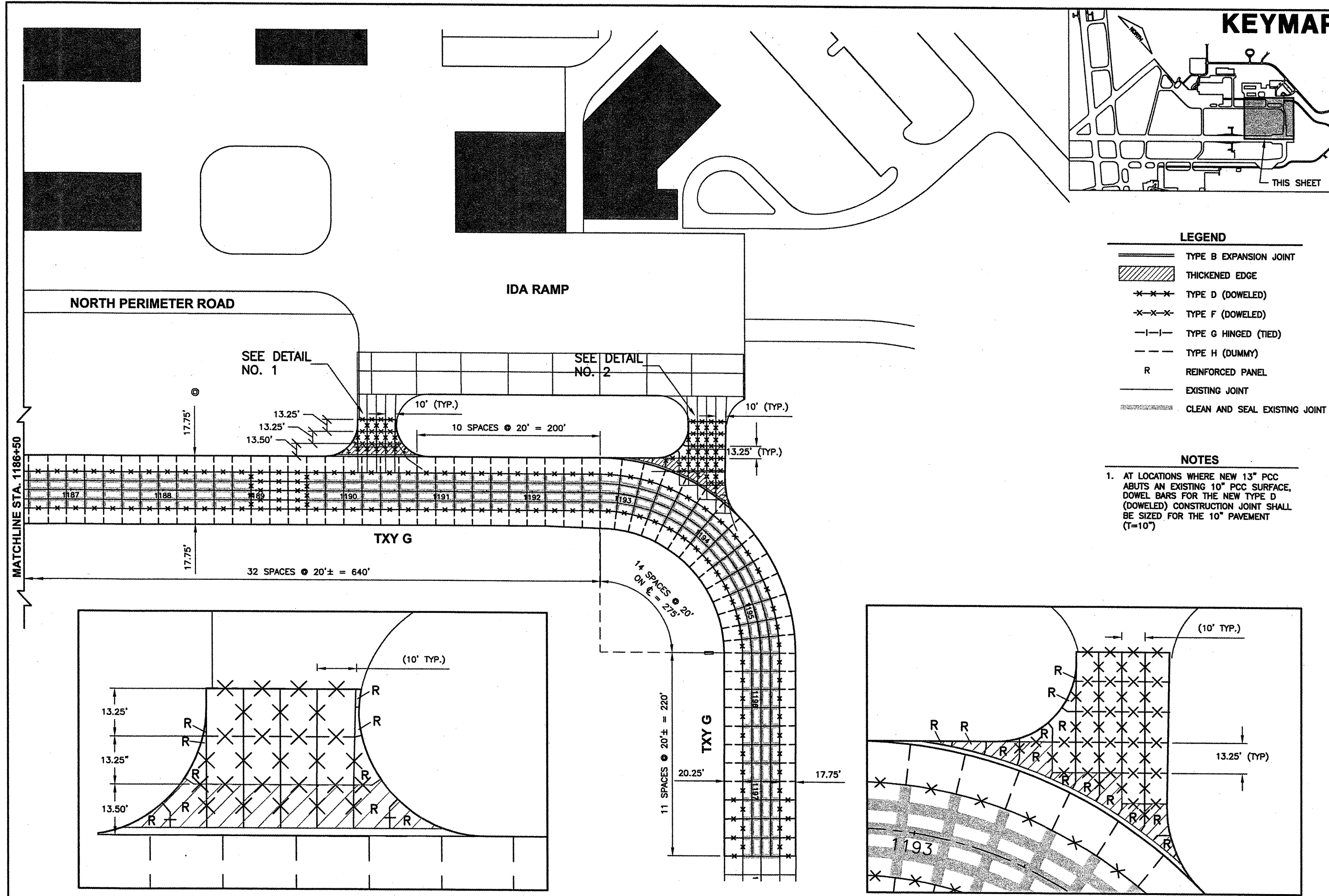
**CA007**

REVISIONS		
NUMBER	BY	DATE

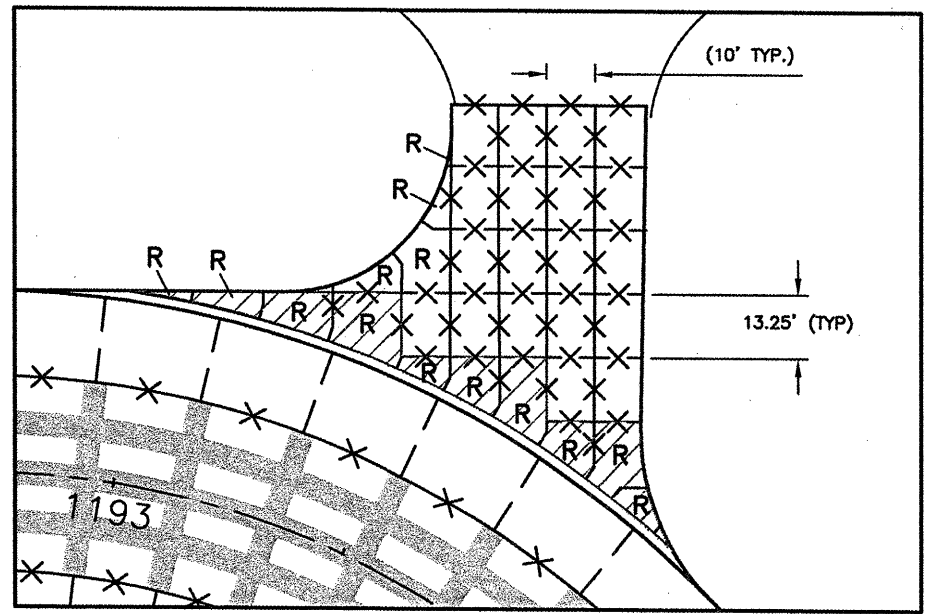


- LEGEND**
- TYPE B EXPANSION JOINT
  - THICKENED EDGE
  - TYPE D (DOWELED)
  - TYPE F (DOWELED)
  - TYPE G HINGED (TIED)
  - TYPE H (DUMMY)
  - REINFORCED PANEL
  - EXISTING JOINT
  - CLEAN AND SEAL EXISTING JOINT

- NOTES**
- AT LOCATIONS WHERE NEW 13" PCC ABUTS AN EXISTING 10" PCC SURFACE, DOWEL BARS FOR THE NEW TYPE D (DOWELED) CONSTRUCTION JOINT SHALL BE SIZED FOR THE 10" PAVEMENT (T=10")



**DETAIL NO. 1**



**DETAIL NO. 2**

**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

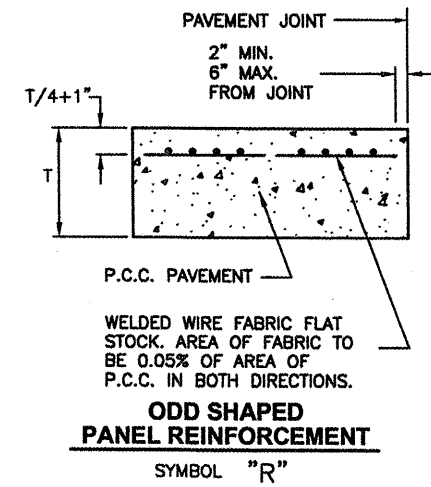
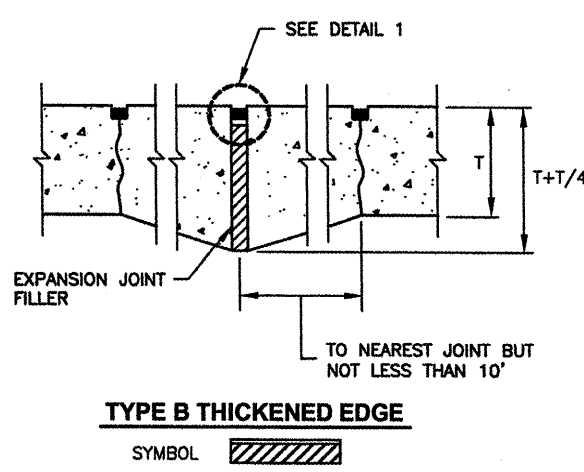
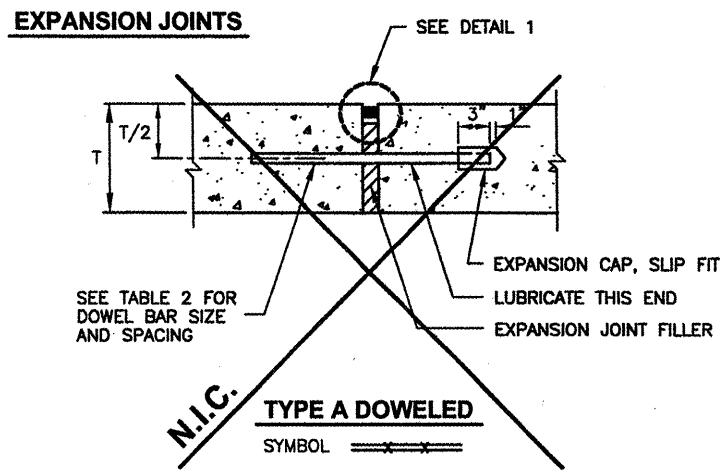
**WIDEN TAXIWAY G - PHASE 2**  
**JOINTING PLAN 2**

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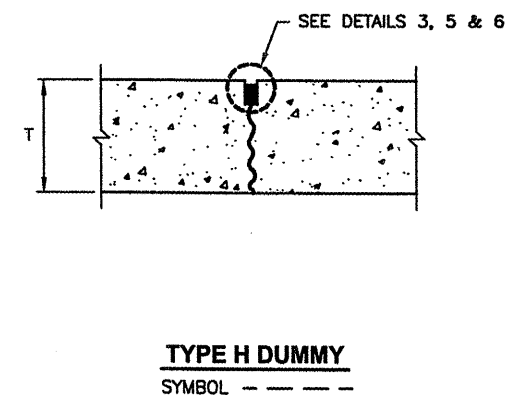
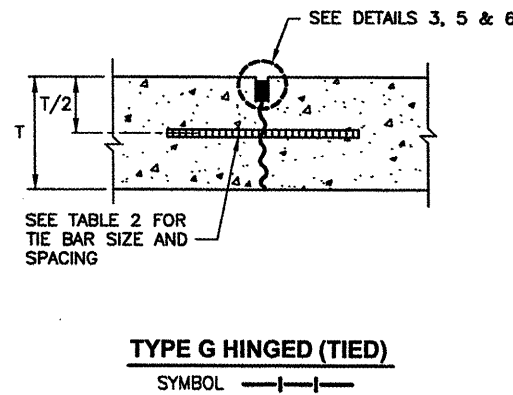
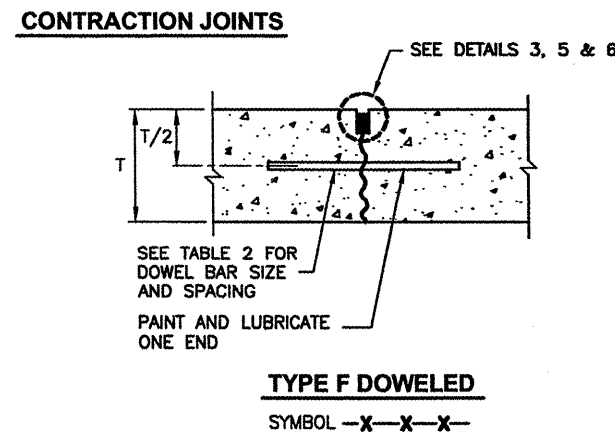
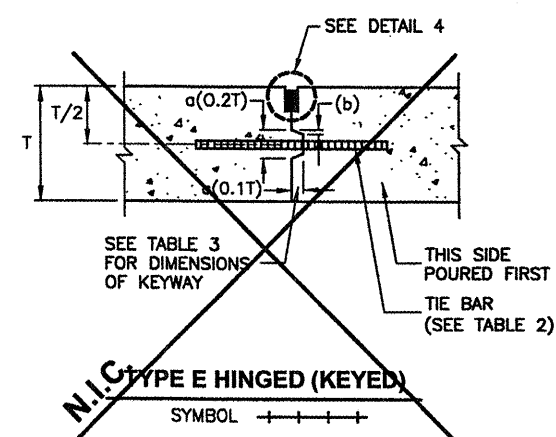
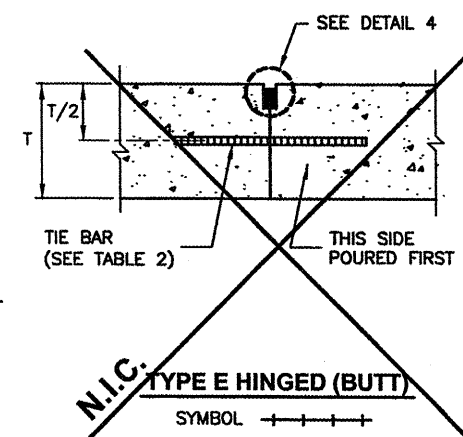
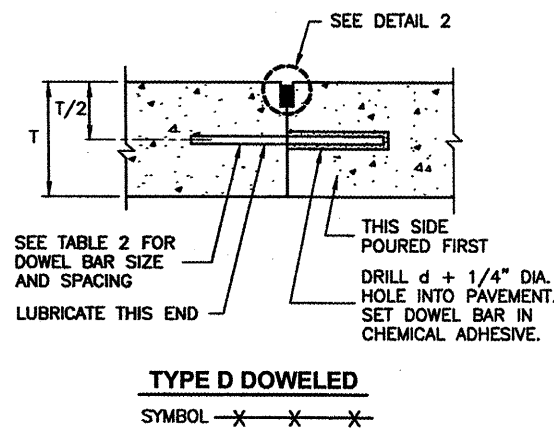
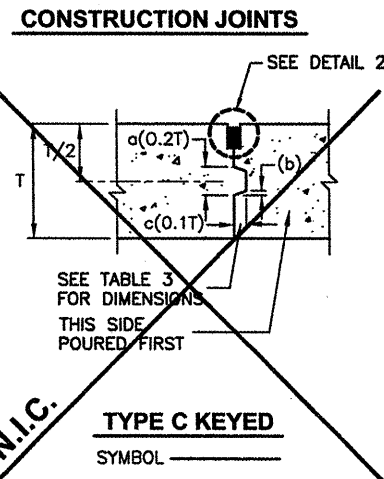
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DRAWN BY:	CMT
CHECKED BY:	REN
APPROVED BY:	REN
DATE:	01/30/2009
JOB No:	07035-09-00
IL PROJ. NO. SPI-3880	
AIP PROJ. NO. 3-17-0096-XX	
SHEET 24 OF 65 SHEETS	



PAVEMENT THICKNESS T - INCHES	DEPTH OF CONTRACTION JOINT INITIAL SAW CUT 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"

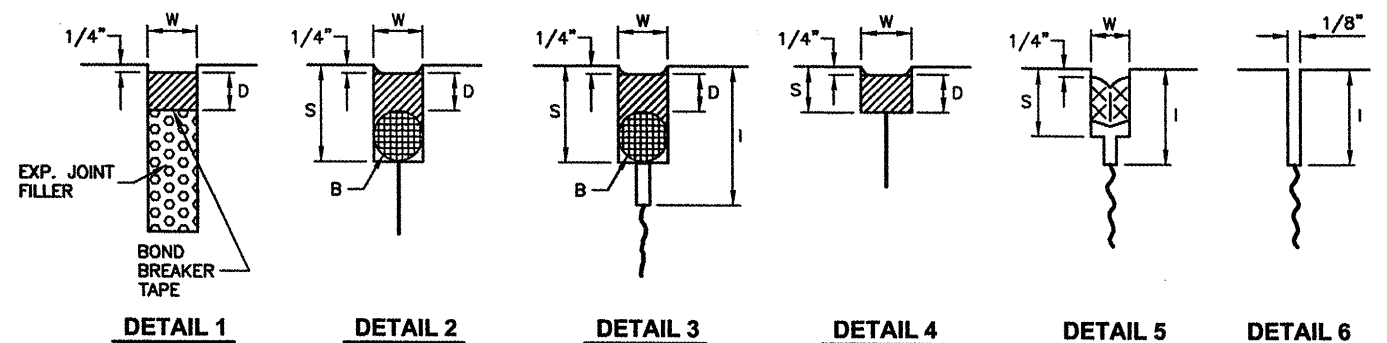


PAVEMENT THICKNESS T - INCHES	KEYED JOINT DIMENSIONS		
	a	b	c
6			
7			
8	0.133' (1-5/8" ±)	0.017' (3/16" ±)	0.067' (7/8" ±)
9	0.150' (1-13/16" ±)	0.019' (3/16" ±)	0.075' (7/8" ±)
10	0.167' (2" ±)	0.021' (1/4" ±)	0.083' (1" ±)
11	0.183' (2-13/16" ±)	0.023' (1/4" ±)	0.092' (1-1/8" ±)
12	0.200' (2-3/8" ±)	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" ±)

- JOINT NOTES**
- 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.
  - THE INITIAL SAWCUT FOR ALL LONGITUDINAL & TRANSVERSE CONTRACTION JOINTS SHALL BE SAWS AS SOON AS POSSIBLE AFTER PLACEMENT OF THE PAVEMENT.
  - ALL TIE BARS & MESH SHALL BE SECURELY HELD IN PLACE BY SUPPORT PINS OR OTHER APPROVED METHODS TO PREVENT SHIFTING DURING & AFTER CONCRETE PLACEMENT.
  - TIE BARS SHALL BE DEFORMED BARS IN CONFORMANCE WITH THE SPECIFICATIONS.
  - 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.

	DETAIL 1	DETAIL 2	DETAIL 3	DETAIL 4	DETAIL 5
	HOT/ COLD POUR	HOT/ COLD POUR	HOT/ COLD POUR	HOT/ COLD POUR	PRE-FORMED
W=WIDTH OF SEALANT RESERVOIR (IN.)	1	1/2	1/2	1/2	3/8 (COM-PRESSED)
D=DEPTH OF SEALANT RESERVOIR (IN.)	1	1/2	1/2	1/2	N/A
B=BACKER ROD DIAMETER (IN.)	N/A	5/8	5/8	N/A	N/A
S=SECOND SAWCUT DEPTH (IN.) MINIMUM	N/A	1-3/8	1-3/8	3/4	1-1/2

**JOINT SEALING DETAILS**



N.I.C. = NOT IN CONTRACT

K:\Springfield\0703509\Draw\Sheets\Phase 2 Full FILE: JOINTDET1.dwg  
UPDATE BY: Kristy Brod  
PLOT DATE: 1/23/2009 2:36 PM

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



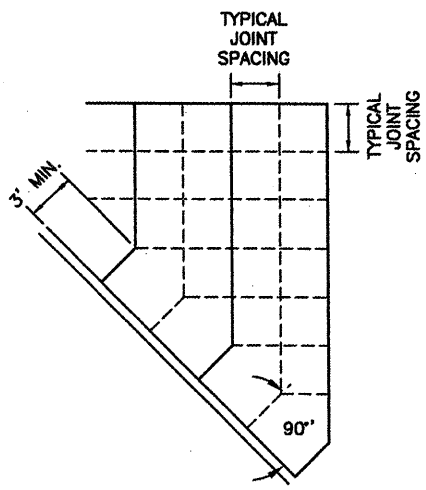
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SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY G - PHASE 2

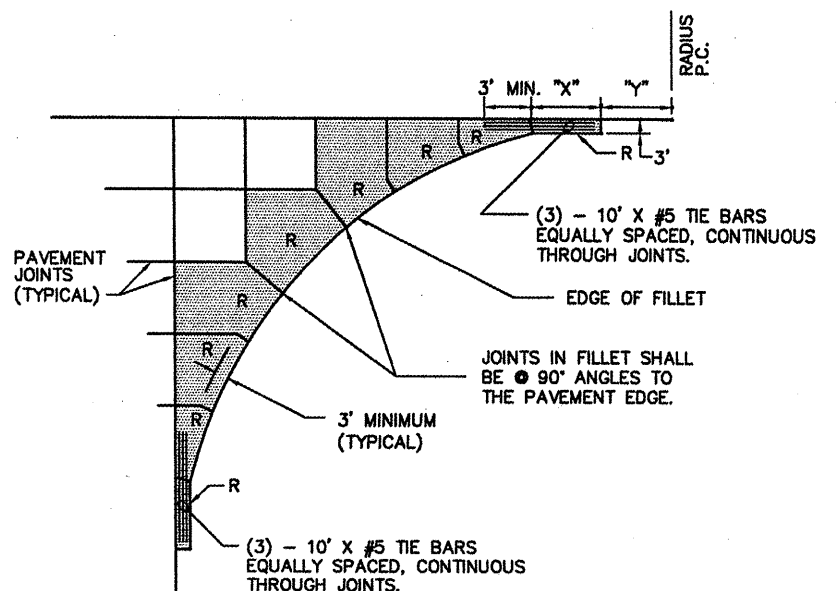
JOINTING DETAILS

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IL PROJ. NO. SPI-3860  
AIP PROJ. NO. 3-17-0096-XX  
SHEET 25 OF 65 SHEETS



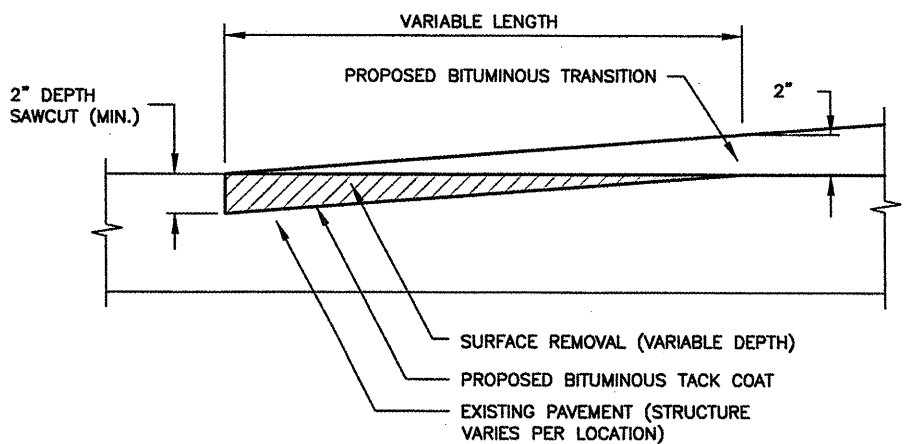
**JOINTING AT SKEWED EDGE**  
N.T.S.



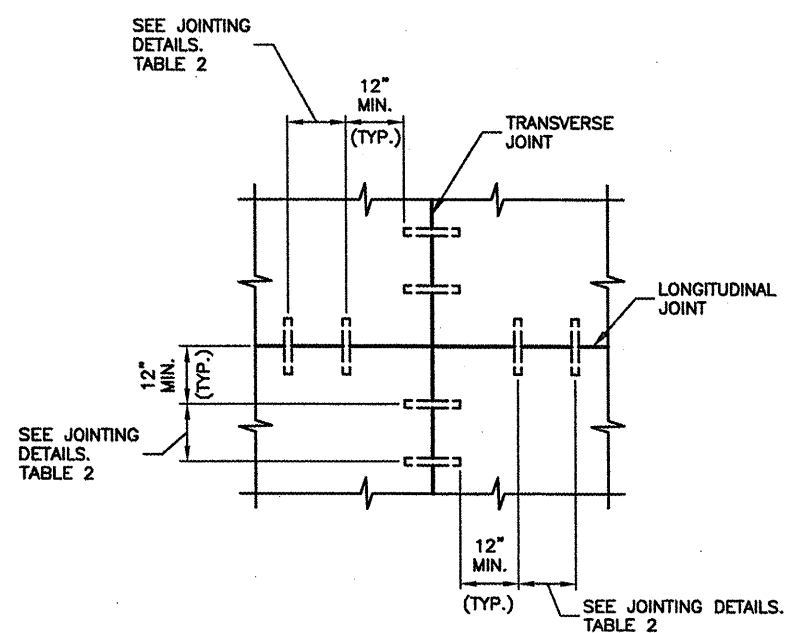
⊗ DENOTES ODD SHAPED REINFORCED PANELS TO BE REINFORCED WITH WELDED WIRE FABRIC AS SHOWN ON JOINTING DETAILS SHEET. ALL NON RECTANGULAR SHAPED PANELS SHALL BE REINFORCED. (REINFORCEMENT NOT SHOWN)

FILLET RADIUS	"X" (IN FEET)	"Y" (IN FEET)
20	4.30	6.24
25	4.88	7.00
30	5.40	7.68
50	7.11	9.95
75	8.79	12.21
85	9.38	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

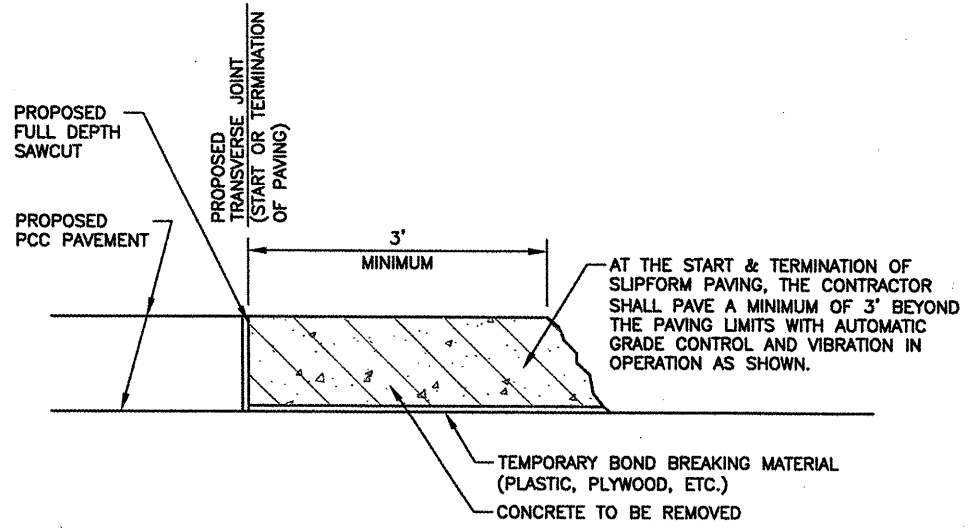
**FILLET DETAIL & FILLET REINFORCING LAYOUT**  
N.T.S.



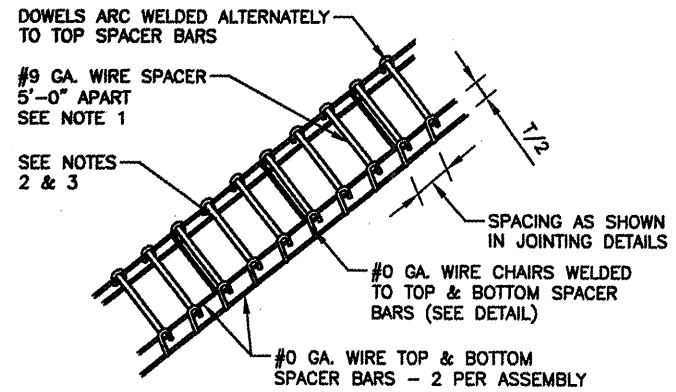
**BUTT JOINT DETAIL**  
N.T.S.



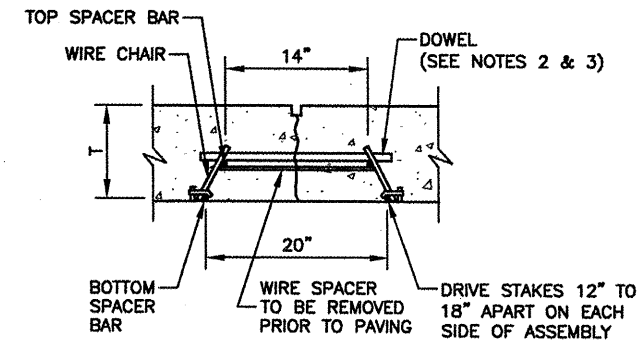
**DOWEL PLACEMENT DETAIL**  
N.T.S.



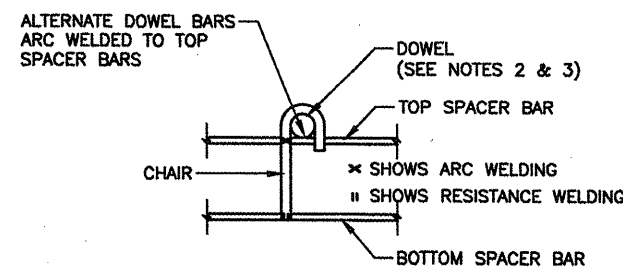
**REQUIREMENTS AT START & TERMINATION OF SLIPFORM PAVING**  
N.T.S.



**DOWEL BASKET ASSEMBLY DETAIL**



**DOWEL BAR INSTALLATION DETAIL**



**TYPICAL DOWEL BASKET ELEVATION DETAIL SHOWING CHAIR**

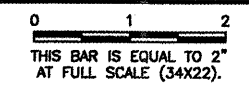
**DOWEL BASKET DETAILS**  
N.T.S.

**DOWEL BASKET NOTES**

- #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.
- DOWEL BAR DIAMETER, LENGTH & SPACING SHALL BE AS SHOWN IN TABLE 2.
- 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.

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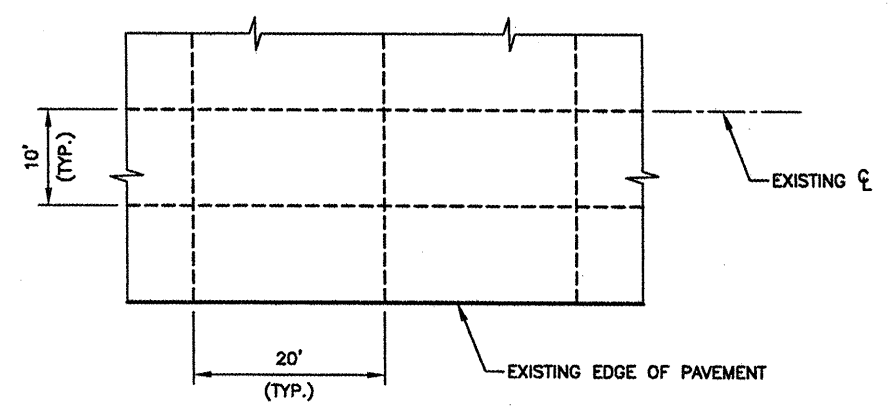
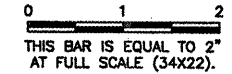
WIDEN TAXIWAY G - PHASE 2  
PAVING & MISCELLANEOUS DETAILS 1

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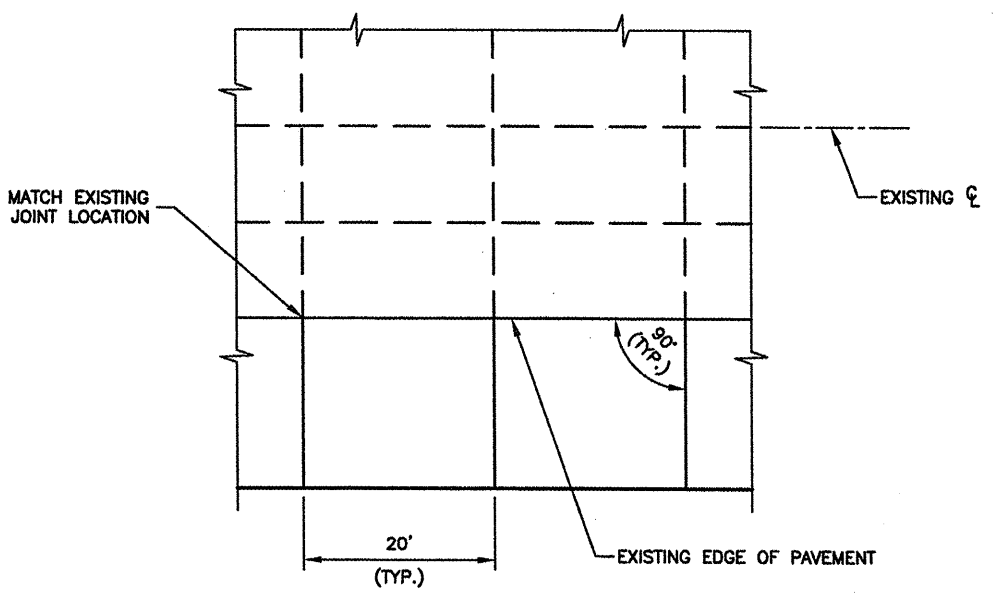
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DATE:	01/30/2009
JOB No:	07035-09-00
IL PROJ. NO.	SPI-3860
AIP PROJ. NO.	3-17-0096-XX
SHEET	26 OF 65 SHEETS

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**EXISTING PAVEMENT JOINT LAYOUT**  
N.T.S.



**NEW PAVEMENT JOINT LAYOUT**  
N.T.S.

**LEGEND**

- EXISTING JOINT
- - - - - CLEAN AND SEAL EXISTING JOINT - TO BE PAID PER L.F.
- \_\_\_\_\_ CONSTRUCT NEW JOINT IN NEW PCC PAVEMENT  
(SEE JOINTING PLAN AND DETAILS) - COST INCIDENTAL  
TO NEW PCC PAVEMENT



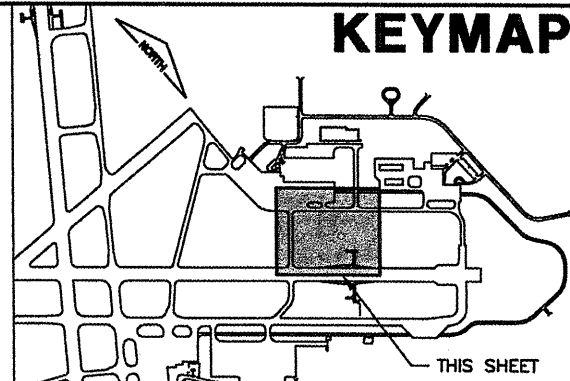
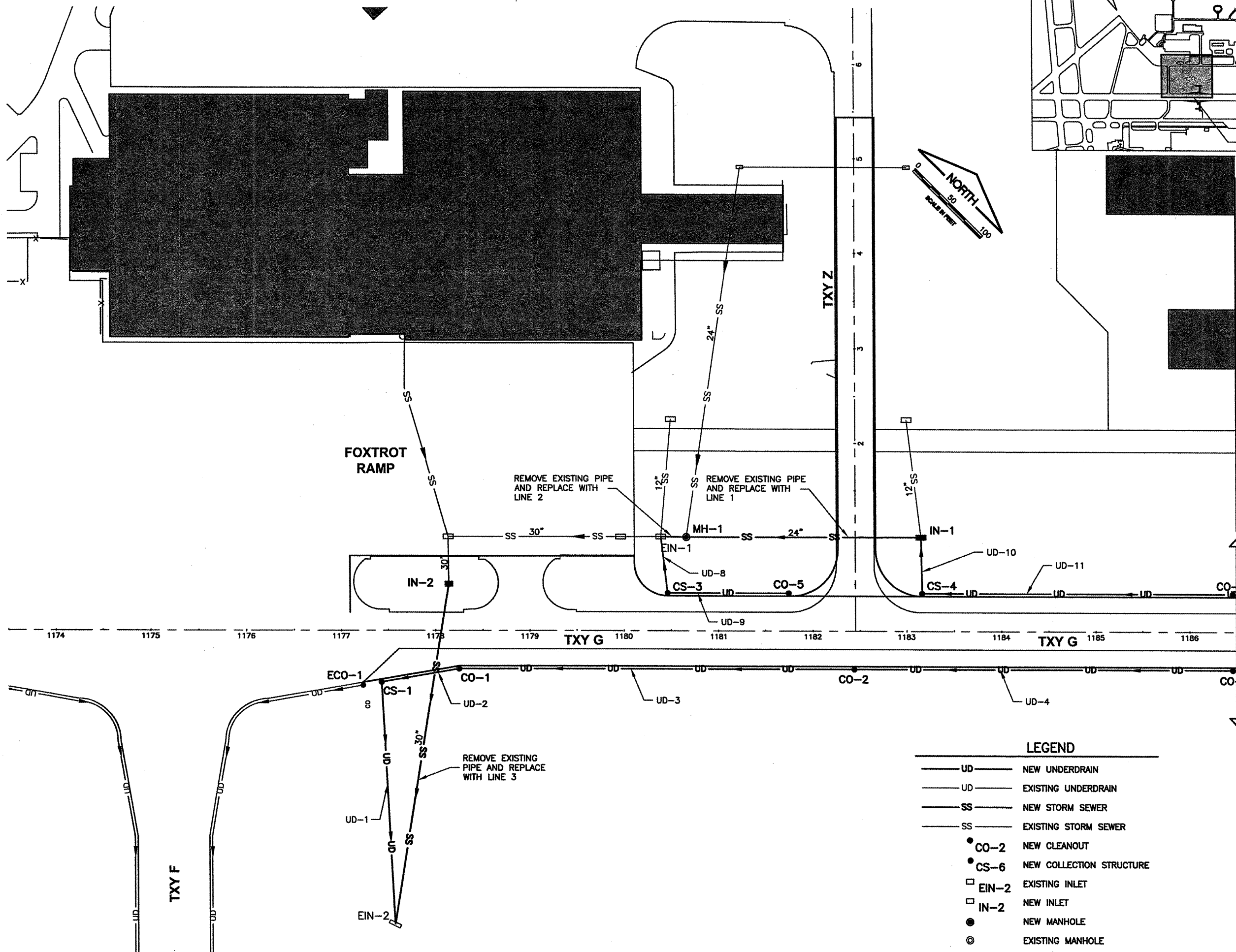
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WIDEN TAXIWAY G - PHASE 2  
 PAVING AND MISCELLANEOUS DETAILS 2

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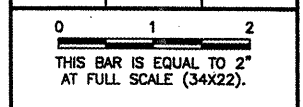
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DATE:	01/30/2009
JOB No:	07035-09-00




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 PLOT DATE: 1/23/2009 2:10 PM  
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 BASE\_EXISTTOPO  
 BASE\_PROPDRAIN  
 BASE\_PROPGED  
 KEY


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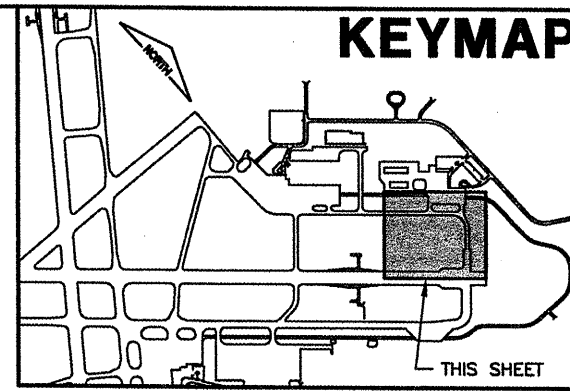
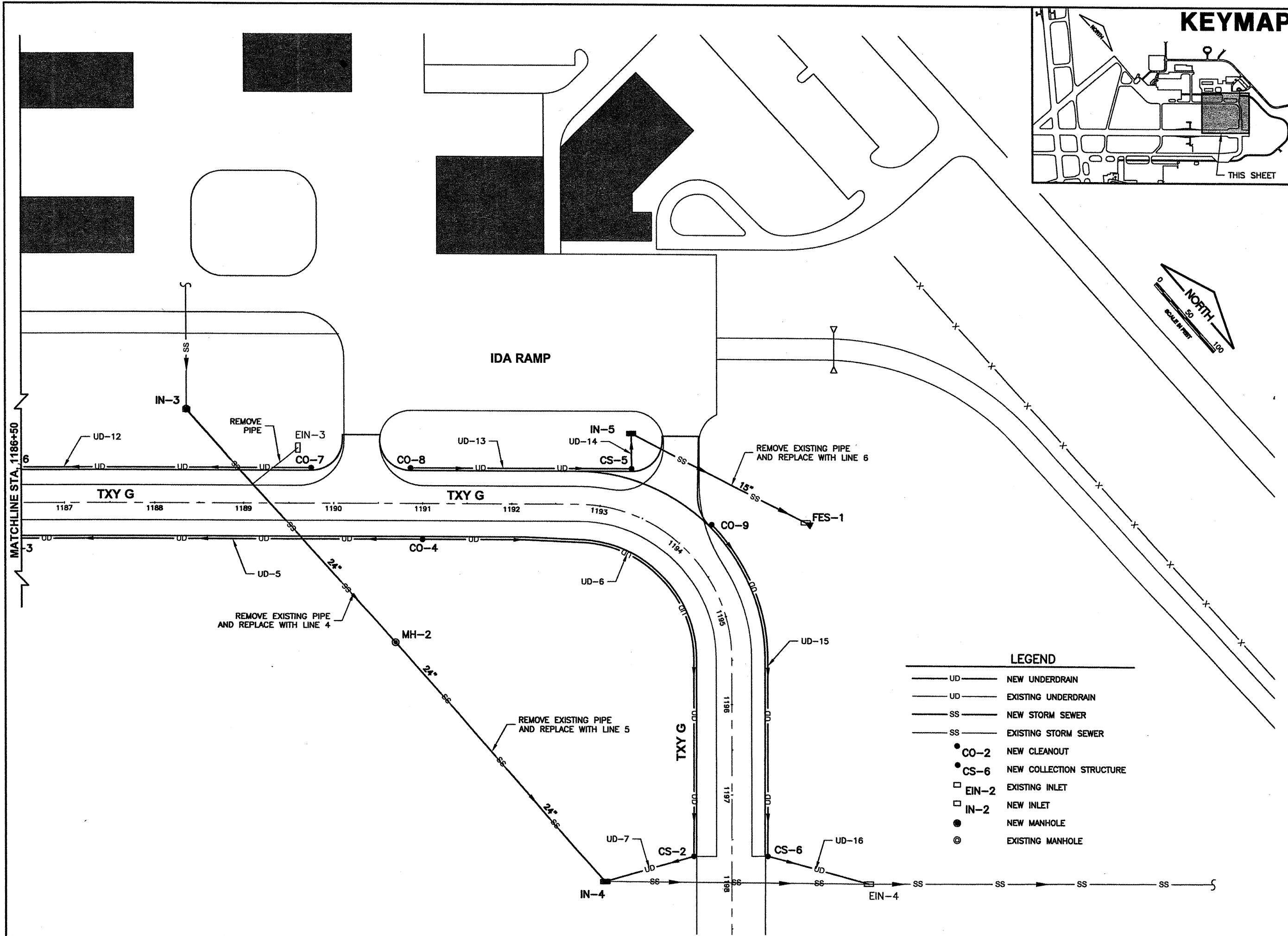
WIDEN TAXIWAY G - PHASE 2  
 DRAINAGE PLAN 1

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IL PROJ. NO.	SPI-3860
AIP PROJ. NO.	3-17-0096-XX
SHEET	28 OF 65 SHEETS

**LEGEND**

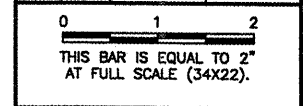
- UD — NEW UNDERDRAIN
- UD — EXISTING UNDERDRAIN
- SS — NEW STORM SEWER
- SS — EXISTING STORM SEWER
- CO-2 NEW CLEANOUT
- CS-6 NEW COLLECTION STRUCTURE
- EIN-2 EXISTING INLET
- IN-2 NEW INLET
- NEW MANHOLE
- ◎ EXISTING MANHOLE



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 BASE\_EXISTGEO  
 BASE\_EXISTTOPO  
 BASE\_PROPDRAIN

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WIDEN TAXIWAY G - PHASE 2  
 DRAINAGE PLAN 2

**LEGEND**

— UD —	NEW UNDERDRAIN
- - - UD - - -	EXISTING UNDERDRAIN
— SS —	NEW STORM SEWER
- - - SS - - -	EXISTING STORM SEWER
● CO-2	NEW CLEANOUT
● CS-6	NEW COLLECTION STRUCTURE
□ EIN-2	EXISTING INLET
□ IN-2	NEW INLET
●	NEW MANHOLE
⊙	EXISTING MANHOLE

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JOB No:	07035-09-00
IL PROJ. NO.	SPI-3860
AIP PROJ. NO.	3-17-0096-XX
SHEET 29 OF 65 SHEETS	

UNDERDRAIN PIPE SCHEDULE							
LINE	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	UPSTREAM INVERT	DOWNSTREAM INVERT	LENGTH (FT)	SLOPE	PIPE
UD-1	CS-1	EIN-2	586.86	578.90	255.7	3.11%	NON-PERFORATED
UD-2	CO-1	CS-1	587.48	586.86	83.2	0.75%	PERFORATED
UD-3	CO-2	CO-1	590.63	587.48	419.0	0.75%	PERFORATED
UD-4	CO-3	CO-2	593.64	590.63	401.8	0.75%	PERFORATED
UD-5	CO-4	CO-3	597.05	593.64	454.2	0.75%	PERFORATED
UD-6	CO-4	CS-2	597.05	592.53	602.0	0.75%	PERFORATED
UD-7	CS-2	IN-4	592.53	591.50	105.0	0.98%	NON-PERFORATED
UD-8	CS-3	EIN-1	589.71	585.90	60.0	6.35%	NON-PERFORATED
UD-9	CO-5	CS-3	590.35	589.71	128.0	0.50%	PERFORATED
UD-10	CS-4	IN-1	591.32	588.31	58.0	5.19%	NON-PERFORATED
UD-11	CO-6	CS-4	593.79	591.32	329.5	0.75%	PERFORATED
UD-12	CO-7	CO-6	596.26	593.79	329.5	0.75%	PERFORATED
UD-13	CO-8	CS-5	596.46	595.59	249.0	0.35%	PERFORATED
UD-14	CS-5	IN-5	595.59	594.90	37.0	1.86%	NON-PERFORATED
UD-15	CO-9	CS-6	594.94	593.00	389.0	0.50%	PERFORATED
UD-16	CS-6	EIN-4	593.00	586.41	118.0	5.58%	NON-PERFORATED

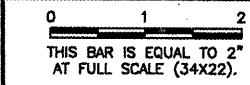
UNDERDRAIN STRUCTURE SCHEDULE								
STRUCTURE	ALIGNMENT	STATION	OFFSET	NORTHING	EASTING	RIM	INVERT	TYPE
CO-1	TXYG	1178+24.7	40.5' RT	1160019.36	2435103.19	590.57	587.48	3
CO-2	TXYG	1182+44.0	40.5' RT	1160334.33	2435379.95	593.93	590.63	3
CO-3	TXYG	1186+45.8	40.5' RT	1160636.16	2435645.17	597.12	593.64	3
CO-4	TXYG	1191+00.0	40.5' RT	1160977.38	2435945.01	599.41	597.05	2
CO-5	TXYG	1181+74.3	40.5' LT	1160335.46	2435273.12	593.35	590.35	1
CO-6	TXYG	1186+45.8	40.5' LT	1160689.62	2435584.33	597.13	593.79	3
CO-7	TXYG	1189+75.2	40.5' LT	1160937.11	2435801.80	599.26	596.26	1
CO-8	TXYG	1190+86.7	40.5' LT	1161020.89	2435875.41	599.46	596.46	1
CO-9	TXYG	1194+11.1	40.5' LT	1161234.04	2436146.80	597.94	594.94	1
CS-1	TXYG	1177+42.8	55.0' RT	1159948.25	2435060.02	589.35	586.86	-
CS-2	TXYG	1197+69.2	43.0' RT	1160972.39	2436413.42	594.97	592.53	-
CS-3	TXYG	1180+46.3	40.5' LT	1160239.27	2435188.60	592.24	589.71	-
CS-4	TXYG	1183+16.3	40.5' LT	1160442.13	2435366.86	594.52	591.32	-
CS-5	TXYG	1193+22.6	49.2' LT	1161207.77	2436039.63	598.53	595.59	-
CS-6	TXYG	1197+68.6	40.5' LT	1161035.46	2436468.14	594.97	593.00	-
IN-1	TXYZ	1+00.0	69.9' RT	1160480.68	2435321.35	592.90	588.31	-
IN-4	TXYG	1197+98.1	143.5' RT	1160877.80	2436368.79	591.48	591.50	-
IN-5	TXYG	1193+15.0	87.3' LT	1161233.56	2436009.69	597.12	594.90	-
EIN-1	TXYZ	1+00.0	206.2' LT	1160273.38	2435138.96	589.29	585.90	-
EIN-2	TXYG	1177+56.0	310.4' RT	1159789.62	2435260.64	584.20	578.90	-
EIN-4	TXYG	1197+99.1	154.2' LT	1161100.67	2436566.11	592.06	586.41	-

STORM SEWER STRUCTURE SCHEDULE										
STRUCTURE	ALIGNMENT	STATION	OFFSET	NORTHING	EASTING	RIM	INVERT	STRUCTURE TYPE	FRAME & LID	NOTES
IN-1	TXYZ	1+00.0	69.9' RT	1160480.68	2435321.35	592.90	588.31	INLET	NEENAH R-3807	REMOVE & REPLACE INLET
MH-1	TXYZ	1+00.0	179.2' LT	1160293.48	2435156.97	591.45	585.54	5' IDOT MANHOLE TYPE A	IDOT TYPE 1 CLOSED	REMOVE & REPLACE MANHOLE
EIN-1	TXYZ	1+00.0	206.2' LT	1160273.38	2435138.96	589.29	584.89	TYPE II INLET	—	REMAIN IN PLACE
IN-2	TXYG	1178+14.2	50' LT	1160071.23	2435028.33	590.40	584.08	SPECIAL INLET	EAST JORDAN IRON WORKS 5436-2	REMOVE & REPLACE INLET
EIN-2	TXYG	1177+56.0	310.4' RT	1159789.62	2435260.64	583.28	578.90	OVERFLOW STRUCTURE	—	REMAIN IN PLACE
EIN-3	TXYG	1189+60.3	62.8' LT	1160940.65	2435775.20	597.86	590.82	TYPE I INLET	—	REMOVE INLET
IN-3	TXYG	1188+35.8	105.9' LT	1160875.55	2435660.67	596.53	590.49	INLET	NEENAH R-3807	REMOVE MANHOLE NEW INLET
MH-2	TXYG	1190+69.3	158.1' RT	1160876.67	2436013.06	595.86	589.41	5' IDOT MANHOLE TYPE A	IDOT TYPE 1 CLOSED	NEW MANHOLE
IN-4	TXYG	1197+98.1	143.5' RT	1160877.80	2436368.79	591.48	588.32	INLET	NEENAH R-3807	REMOVE & REPLACE INLET
IN-5	TXYG	1193+15.0	87.3' LT	1161233.56	2436009.69	597.12	594.95	INLET	NEENAH R-3807	REMOVE & REPLACE INLET
FES-1	TXYG	1194+53.8	126.0' LT	1161315.12	2436214.48	594.91	593.66	FLARED END SECTION	—	REMOVE & REPLACE FLARED END SECTION

STORM SEWER PIPE SCHEDULE							
LINE	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	SIZE	UPSTREAM INVERT	DOWNSTREAM INVERT	LENGTH (FT)	SLOPE
1	IN-1	MH-1	24"	588.31	585.54	249.1	1.11%
2	MH-1	EIN-1	30"	585.54	584.89	27.0	2.41%
3	IN-2	EIN-2	30"	584.08	578.90	365.1	1.42%
4	IN-3	MH-2	24"	590.49	589.41	352.5	0.31%
5	MH-2	IN-4	24"	589.41	588.32	352.5	0.31%
6	IN-5	FES-1	15"	594.95	593.66	220.4	0.59%

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SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY G - PHASE 2  
DRAINAGE SCHEDULE

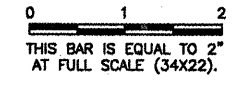
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APPROVED BY: *RW*  
DATE: 01/30/2009  
JOB No: 07035-09-00  
IL PROJ. NO. SPI-3860  
AIP PROJ. NO. 3-17-0096-XX  
SHEET 30 OF 65 SHEETS

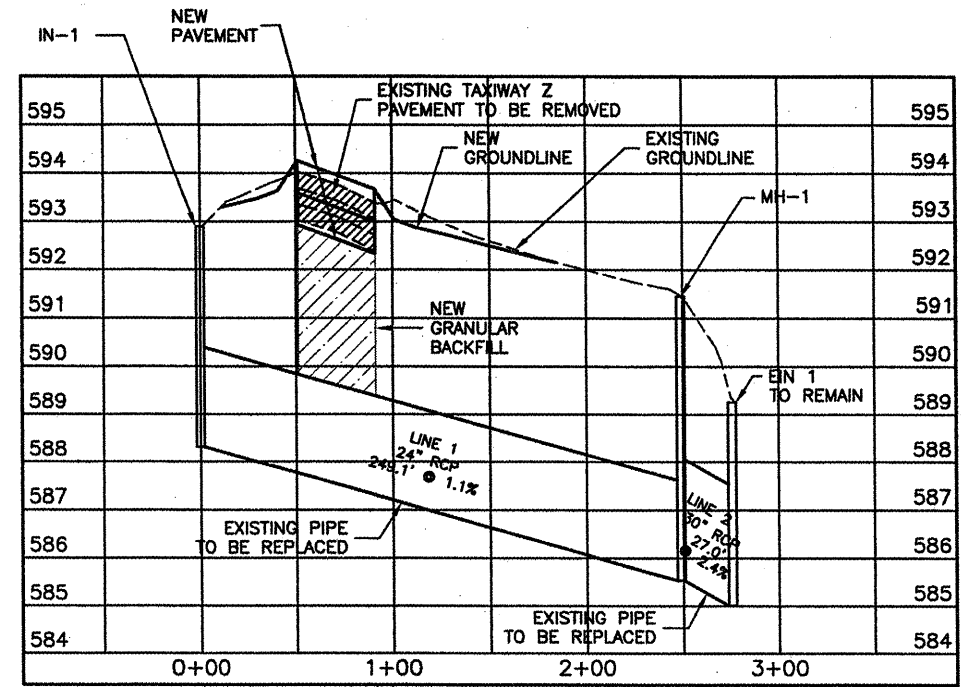
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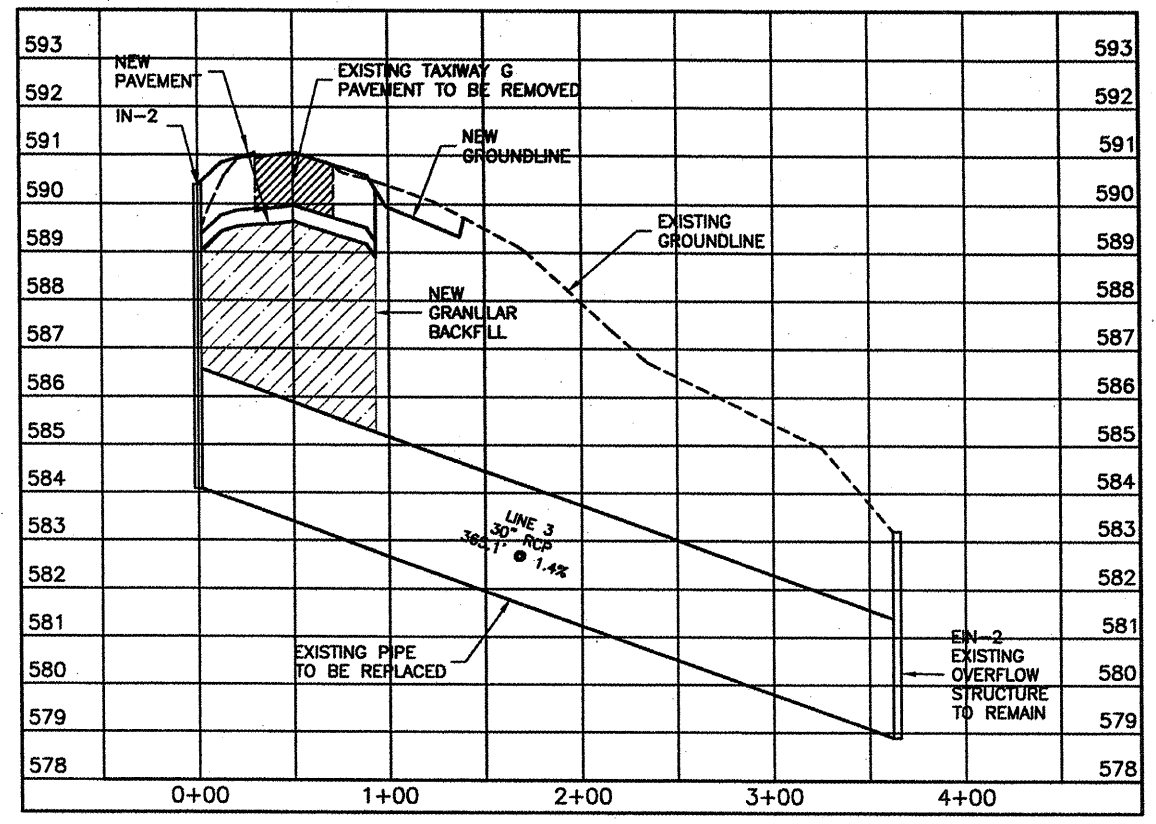


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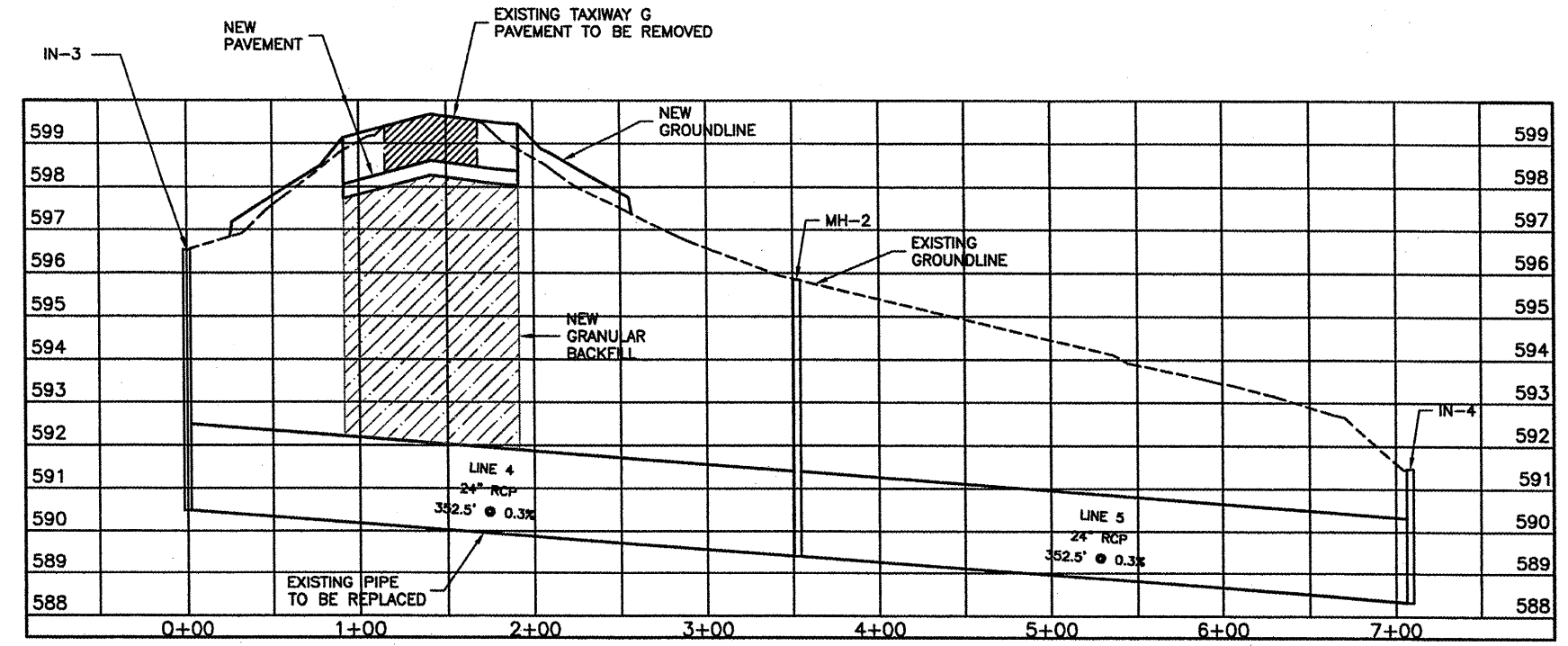
WIDEN TAXIWAY G - PHASE 2  
 STORM SEWER PROFILES



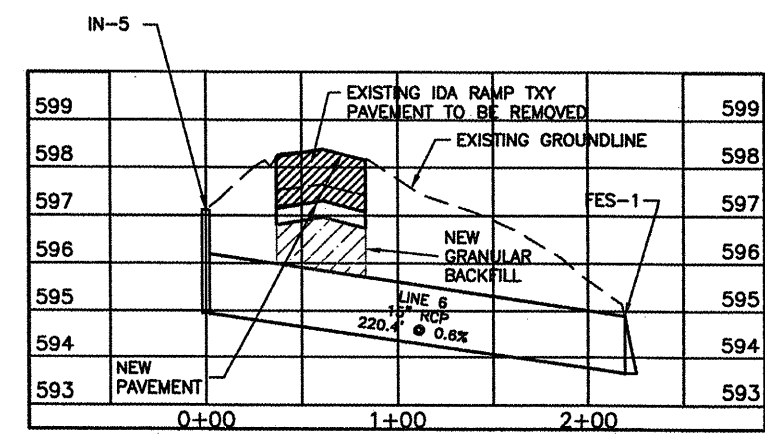
**STORM SEWER PROFILE LINE 1 AND 2**  
 IN-1 TO MH-1 AND MH-1 TO EIN-1



**STORM SEWER PROFILE LINE 3**  
 IN-2 TO EIN-2



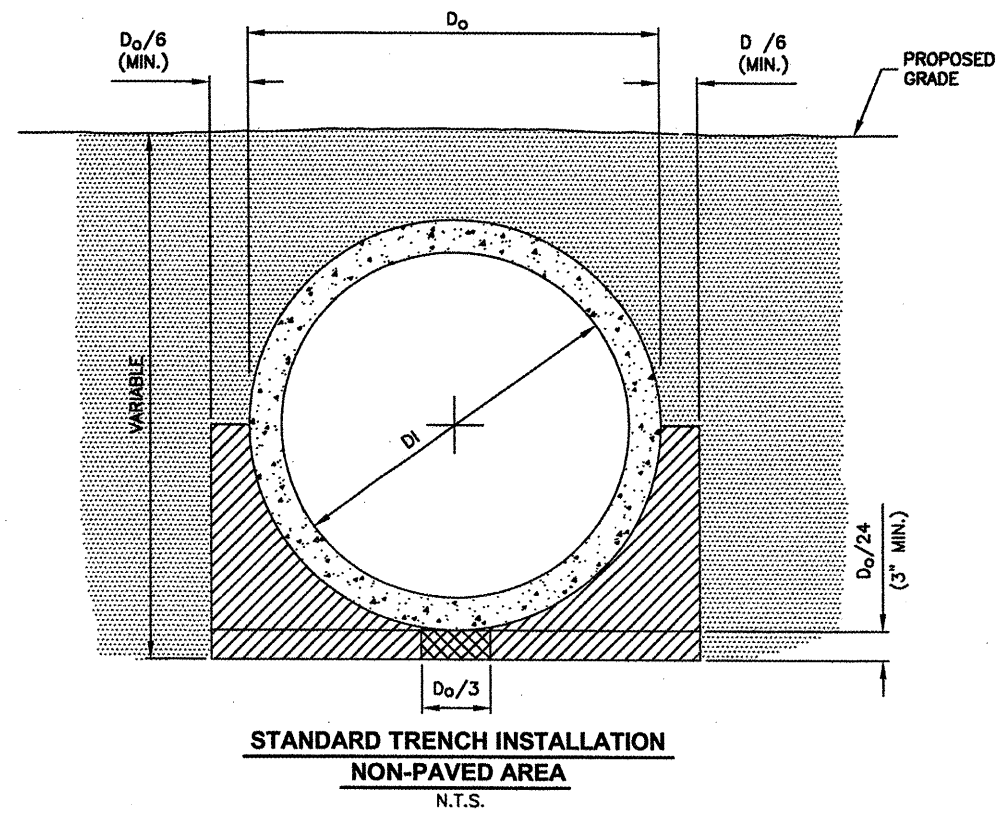
**STORM SEWER PROFILE LINE 4 AND 5**  
 IN-3 TO MH-2 AND MH-2 TO IN-4



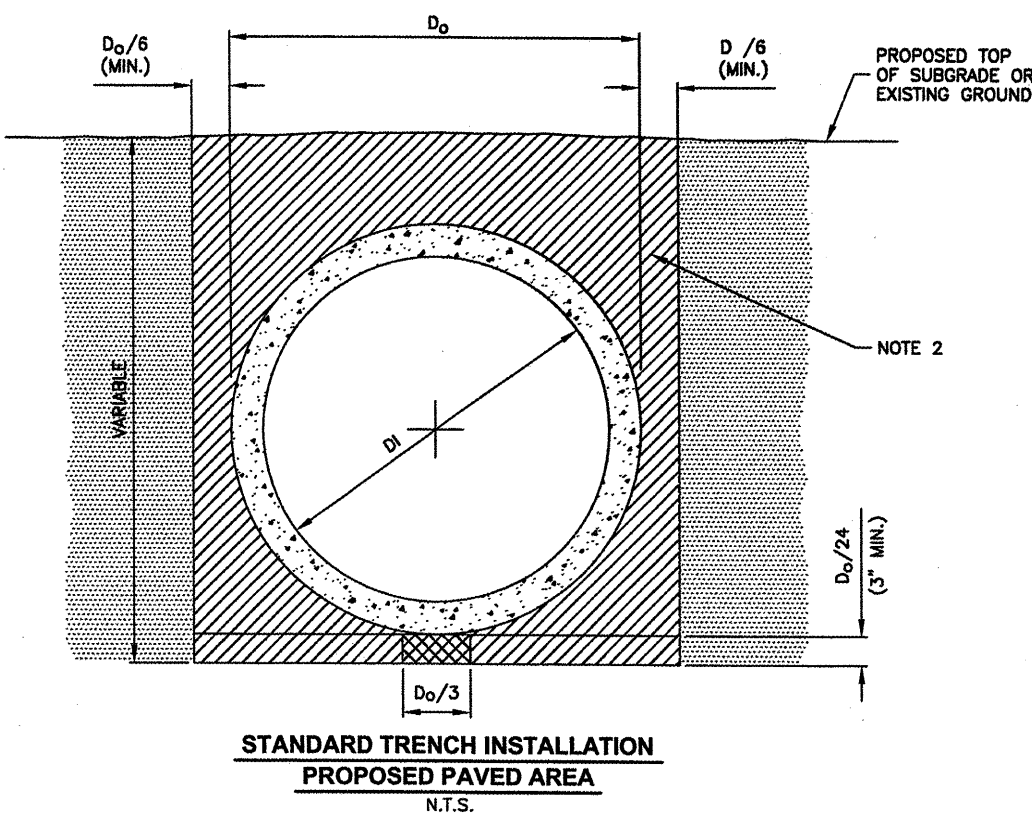
**STORM SEWER PROFILE LINE 6**  
 IN-5 TO FES-1

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SHEET	31 OF 85 SHEETS



**STANDARD TRENCH INSTALLATION  
 NON-PAVED AREA**  
 N.T.S.



**STANDARD TRENCH INSTALLATION  
 PROPOSED PAVED AREA**  
 N.T.S.

**TRENCH INSTALLATION LEGEND**

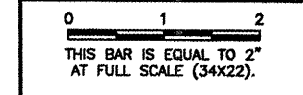
- DRAINAGE CONDUIT MATERIAL—CONCRETE
  - MIDDLE BEDDING LOOSELY PLACED UNCOMPACTED BEDDING
  - HAUNCH AND OUTER BEDDING COMPACTION— TO ENGINEER'S SATISFACTION OR 95% STANDARD PROCTOR
  - LOWER SIDE AND OVERFILL COMPACTION— SAME AS EMBANKMENT REQUIREMENTS
- $D_0$  PIPE OUTSIDE DIAMETER  
 $D_1$  PIPE INSIDE DIAMETER

**TRENCH INSTALLATION NOTES**

1. BEDDING SHOWN IS IN ACCORDANCE WITH "STANDARD EMBANKMENT INSTALLATIONS", STANDARD INSTALLATION & BEDDING FACTORS FOR THE INDIRECT DESIGN METHOD (DESIGN DATA 40), AMERICAN CONCRETE PIPE ASSOCIATION.
2. BACKFILL TO EXTEND 3' BEYOND EDGES OF PROPOSED PAVEMENT.

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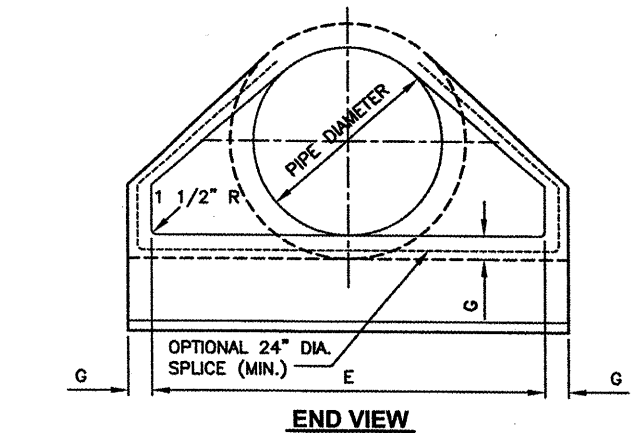
WIDEN TAXIWAY G - PHASE 2  
 DRAINAGE DETAILS

DIMENSIONS - TABLE 1										
PIPE DIA.	APPROX WT. (lbs.)	WALL	A	B	C	D	E	G	R	SLOPE
12"	530	2"	4"	2'-0"	4'-0 7/8"	6'-0 7/8"	2'-0"	2"	9"	3:1
15"	740	2 1/4"	6"	2'-3"	3'-10"	6'-1"	2'-6"	2 1/4"	11"	3:1
18"	990	2 1/2"	9"	2'-3"	3'-10"	6'-1"	3'-0"	2 1/2"	12"	3:1
21"	1280	2 3/4"	9"	2'-11"	3'-2"	6'-1"	3'-6"	2 3/4"	13"	3:1
24"	1520	3"	9 1/2"	3'-7 1/2"	2'-6"	6'-1 1/2"	4'-0"	3"	14"	3:1
27"	1930	3 1/4"	10 1/2"	4'-0"	2'-1 1/2"	6'-1 1/2"	4'-6"	3 1/4"	14 1/2"	3:1
30"	2190	3 1/2"	1'-0"	4'-6"	1'-7 3/4"	6'-1 3/4"	5'-0"	3 1/2"	15"	3:1
33"	3200	3 3/4"	1-1 1/2"	4'-10 1/2"	3'-3 1/4"	8'-1 3/4"	5'-6"	3 3/4"	17 1/2"	3:1
36"	4100	4"	1'-3"	5'-3"	2'-10 3/4"	8'-1 3/4"	6'-0"	4"	20"	3:1
42"	5380	4 1/2"	1'-9"	5'-3"	2'-11"	8'-2"	6'-6"	4 1/2"	22"	3:1
48"	6550	5"	2'-0"	6'-0"	2'-2"	8'-2"	7'-0"	5"	22"	3:1
54"	8240	5 1/2"	2'-3"	5'-5"	2'-11"	8'-4"	7'-6"	5 1/2"	24"	2.4:1
60"	8730	6"	2'-11"	5'-0"	3'-3"	8'-3"	8'-0"	5"	*	2:1
66"	10710	6 1/2"	2'-6"	6'-0"	2'-3"	8'-3"	8'-6"	5 1/2"	*	2:1
72"	12520	7"	3'-0"	6'-6"	1'-9"	8'-3"	9'-0"	6"	*	1.86:1
78"	14770	7 1/2"	3'-0"	7'-6"	1'-9"	9'-3"	9'-6"	6 1/2"	*	1.82:1
84"	18160	8"	3'-0"	7'-6 1/2"	1'-9"	9'-3 1/2"	10'-0"	6 1/2"	*	1.5:1

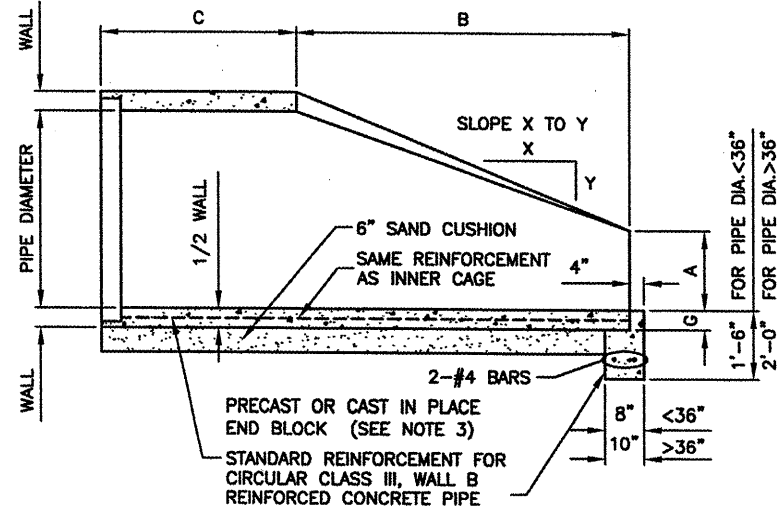
\* RADIUS AS FURNISHED BY MANUFACTURER.

**PRECAST FLARE SECTION NOTES**

1. PRECAST CONCRETE FLARED END SECTIONS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M-170 CLASS III, WALL B REINFORCED CONCRETE PIPE.
2. PRECAST CONCRETE FLARED END SECTION FOR PIPE DIAMETER REQUIRED SHALL BE AS INDICATED ON DETAIL PLAN FOR EACH INDIVIDUAL INSTALLATION.
3. THE END BLOCK SHALL BE PLACED PRIOR TO THE INSTALLATION OF THE FLARED END SECTION. THE END BLOCK SHALL BE BACKFILLED IN ACCORDANCE WITH ITEM 701.

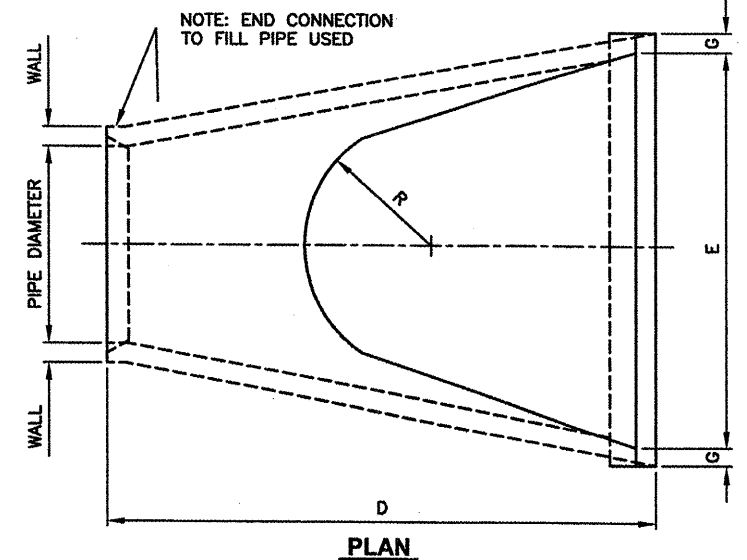


**END VIEW**



**LONGITUDINAL SECTION**

**PRECAST REINFORCED CONCRETE FLARED END SECTION**  
 (I.D.O.T. STD. NO. 542301)  
 N.T.S.



**PLAN**

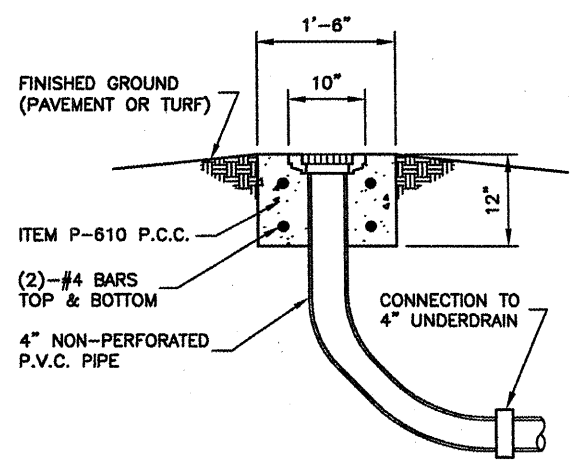
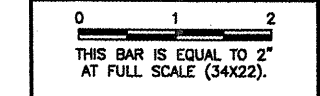
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SHEET	32 OF 65 SHEETS



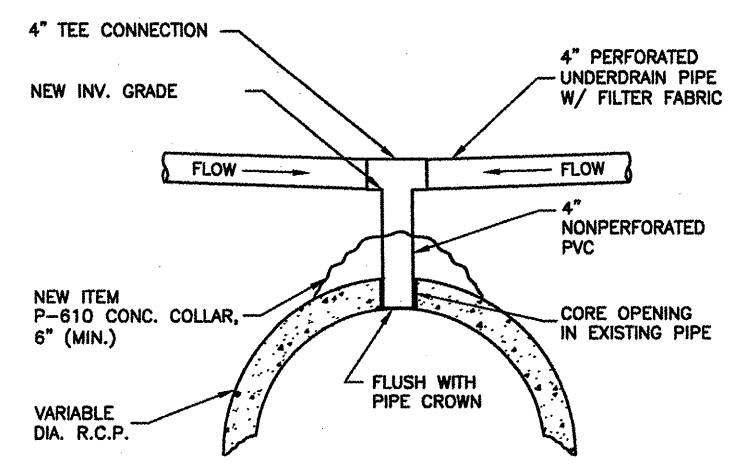
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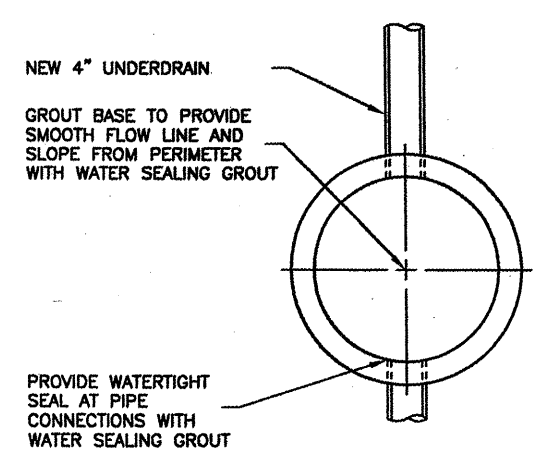


**SIDE VIEW**

**UNDERDRAIN CLEAN-OUT DETAIL (TYPE 1)**  
N.T.S.

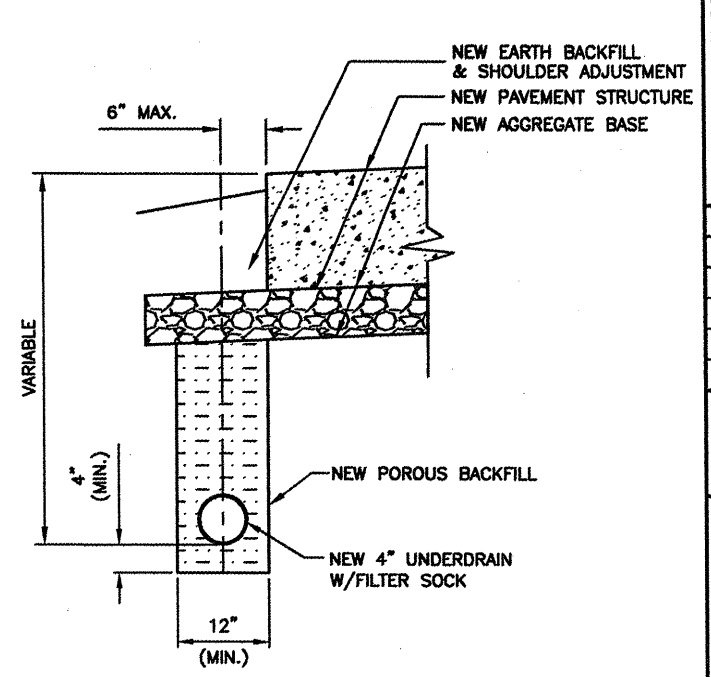


**UNDERDRAIN DIRECT TOP CONNECTION DETAIL**  
N.T.S.

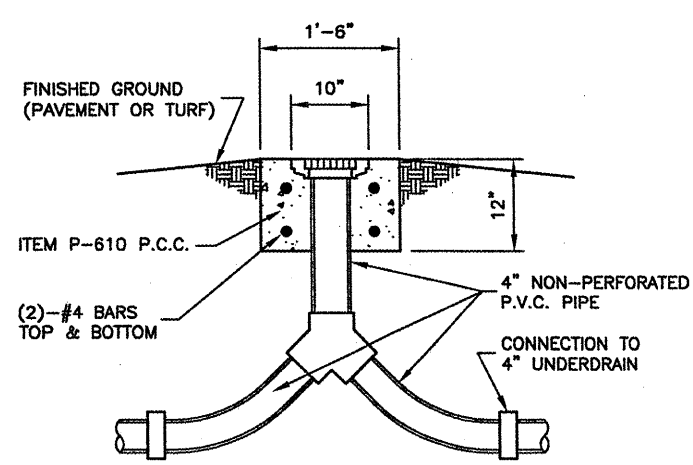


**PLAN**

**UNDERDRAIN CLEAN-OUT DETAIL**  
N.T.S.

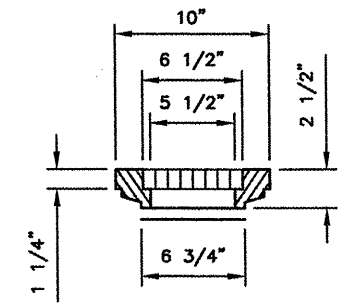


**TYPICAL UNDERDRAIN DETAIL PAVEMENT EDGE**  
N.T.S.



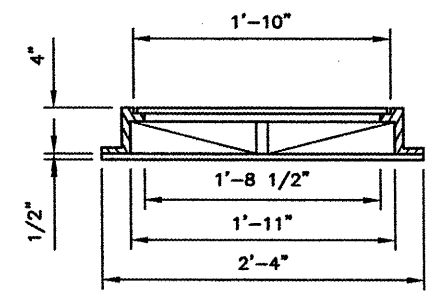
**SIDE VIEW**

**UNDERDRAIN CLEAN-OUT DETAIL (TYPE 2)**  
N.T.S.



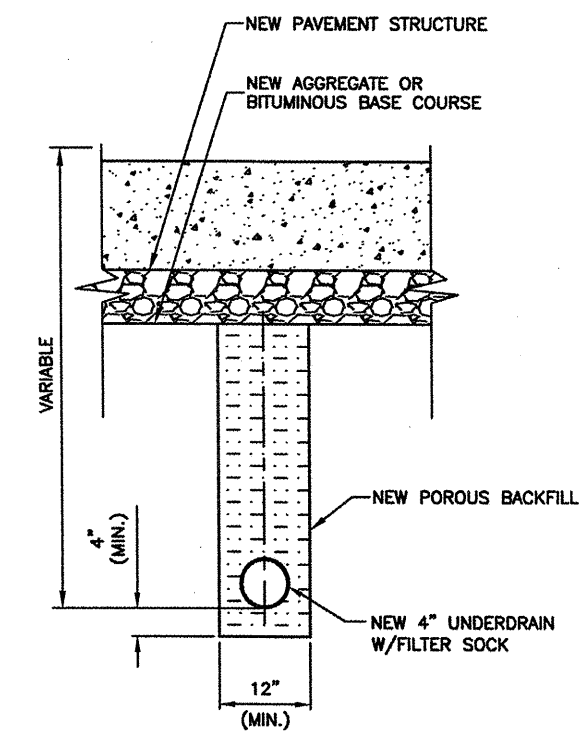
CAST IRON FRAME & COVER  
(SIMILAR TO NEENAH R-6013 OR APPROVED EQUAL)

**FRAME & COVER**

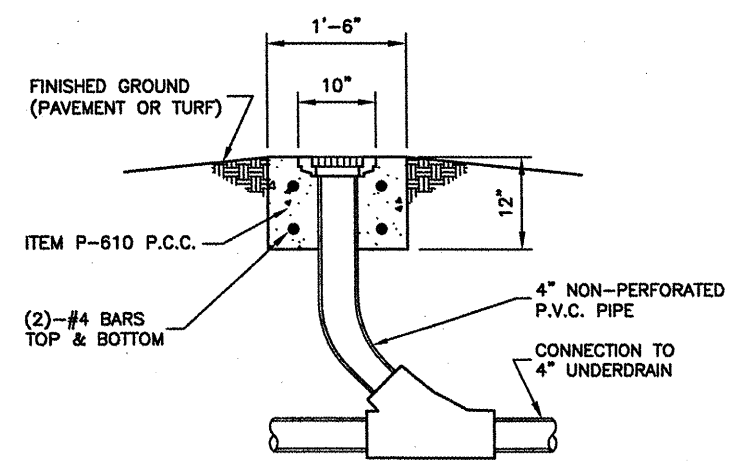


CAST IRON FRAME & LID (SIMILAR TO NEENAH R-1690-A HEAVY DUTY OR APPROVED EQUAL)

**FRAME & LID**

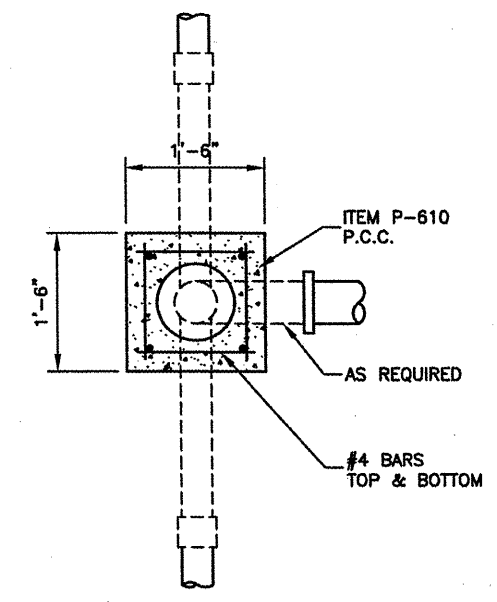


**TYPICAL UNDERDRAIN DETAIL BELOW PAVEMENT**  
N.T.S.



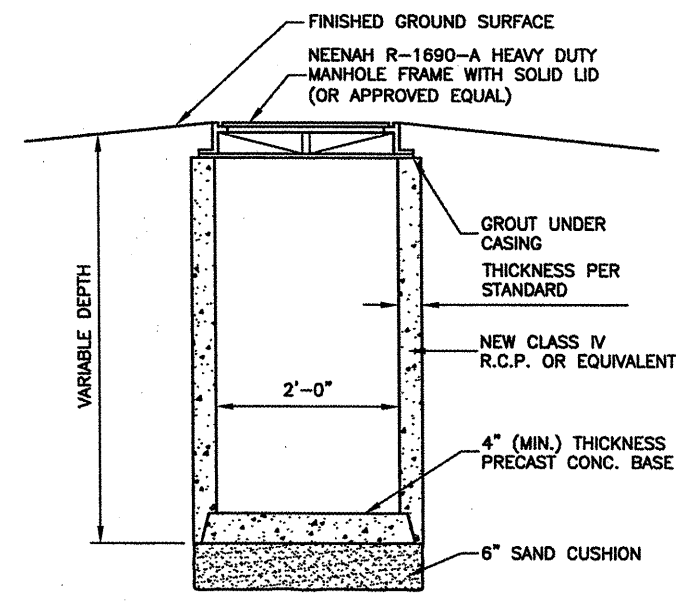
**SIDE VIEW**

**UNDERDRAIN CLEAN-OUT DETAIL (TYPE 3)**  
N.T.S.



**PLAN**

**UNDERDRAIN CLEAN-OUT DETAIL**  
N.T.S.



**SIDE VIEW**

**UNDERDRAIN COLLECTION STRUCTURE DETAIL**  
N.T.S.

**UNDERDRAIN NOTE**

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.



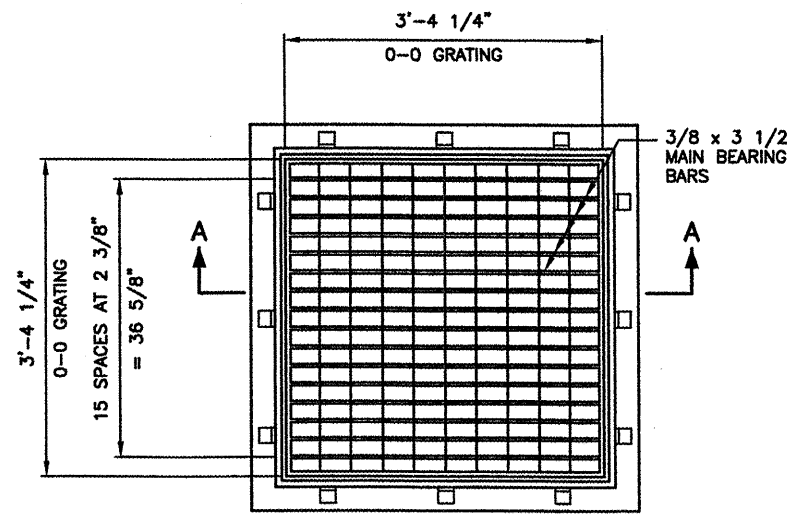
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WIDEN TAXIWAY G - PHASE 2

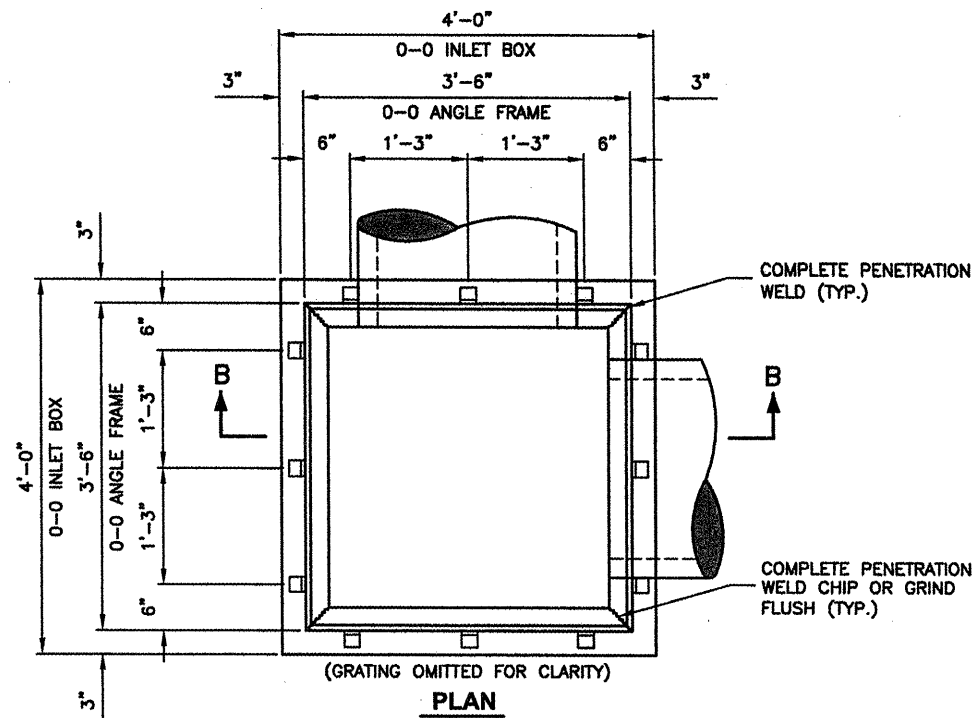
UNDERDRAIN DETAILS

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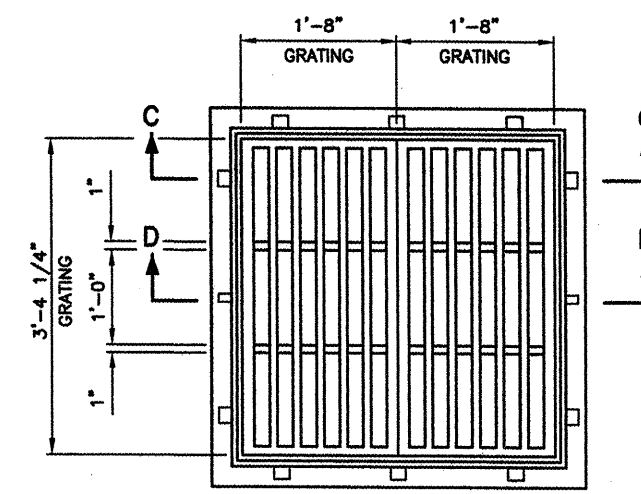
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SHEET	33 OF 85 SHEETS



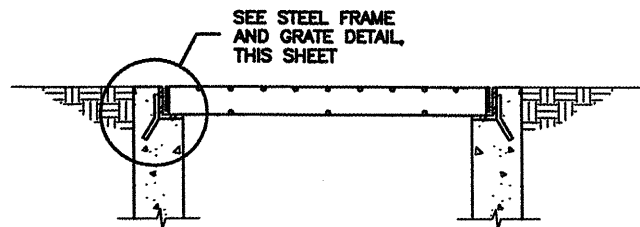
**PLAN**  
N.T.S.



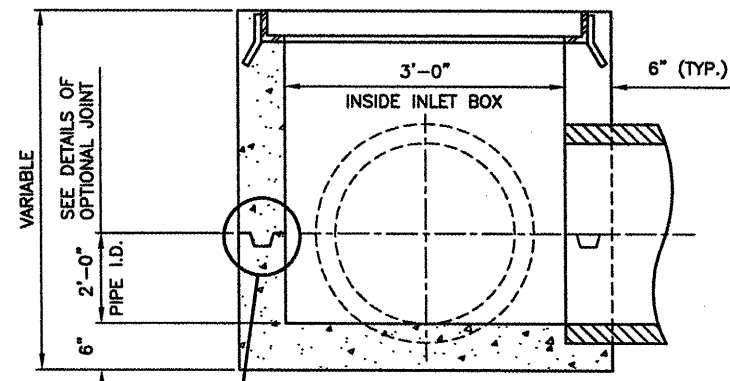
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N.T.S.



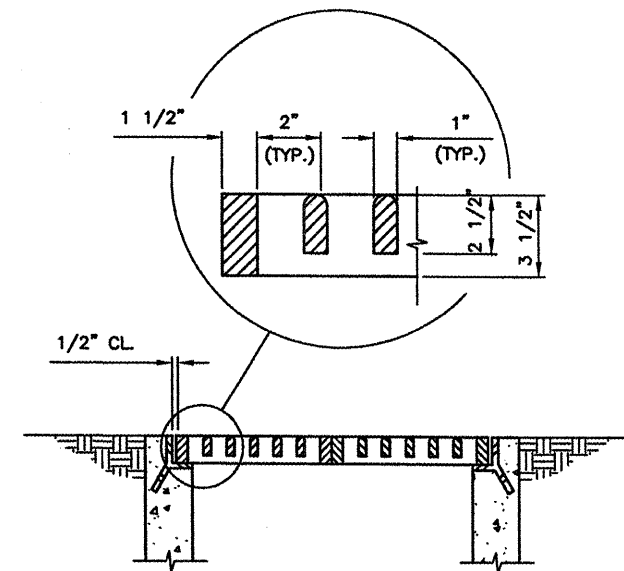
**PLAN**  
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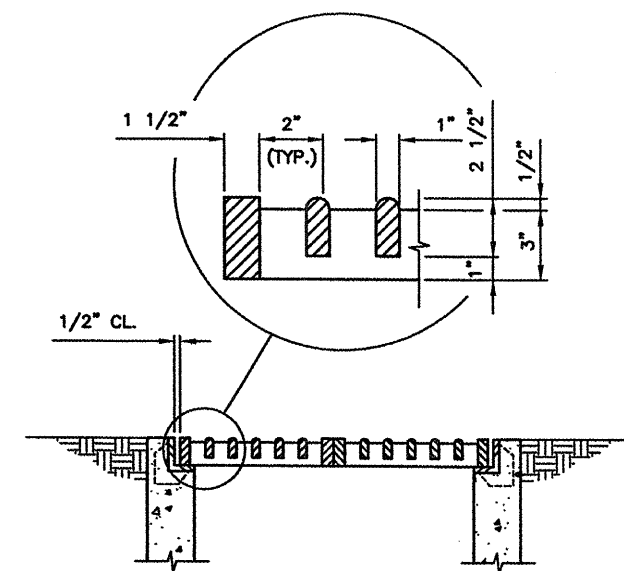
**SECTION A-A**  
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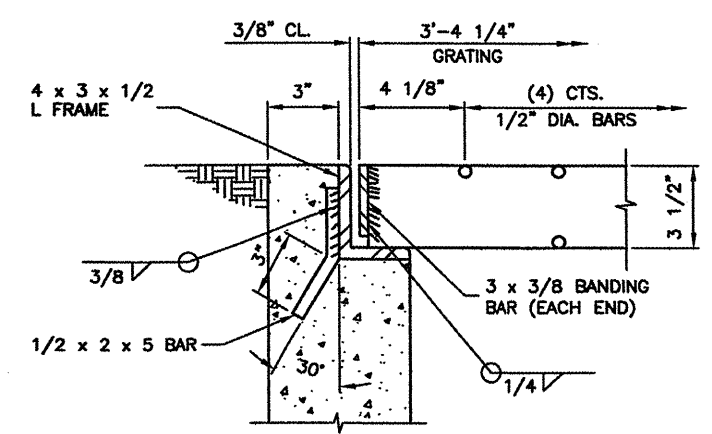
**SECTION B-B**  
N.T.S.



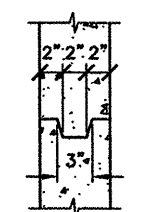
**SECTION C-C**  
N.T.S.



**SECTION D-D**



**STEEL FRAME & GRATE DETAIL**  
N.T.S.



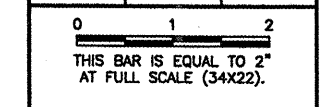
**OPTIONAL JOINT DETAIL**  
N.T.S.

**INLET NOTE**  
 INLET IS AN IDOT STD. 542546, FLUSH INLET BOX FOR MEDIAN. FRAME & GRATES ARE NEENAH R-3807 OR APPROVED EQUAL.

**CAST FRAME & GRATE DETAILS**  
N.T.S.

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WIDEN TAXIWAY G - PHASE 2  
**INLET DETAIL**

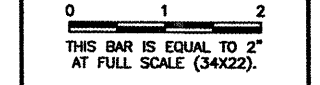
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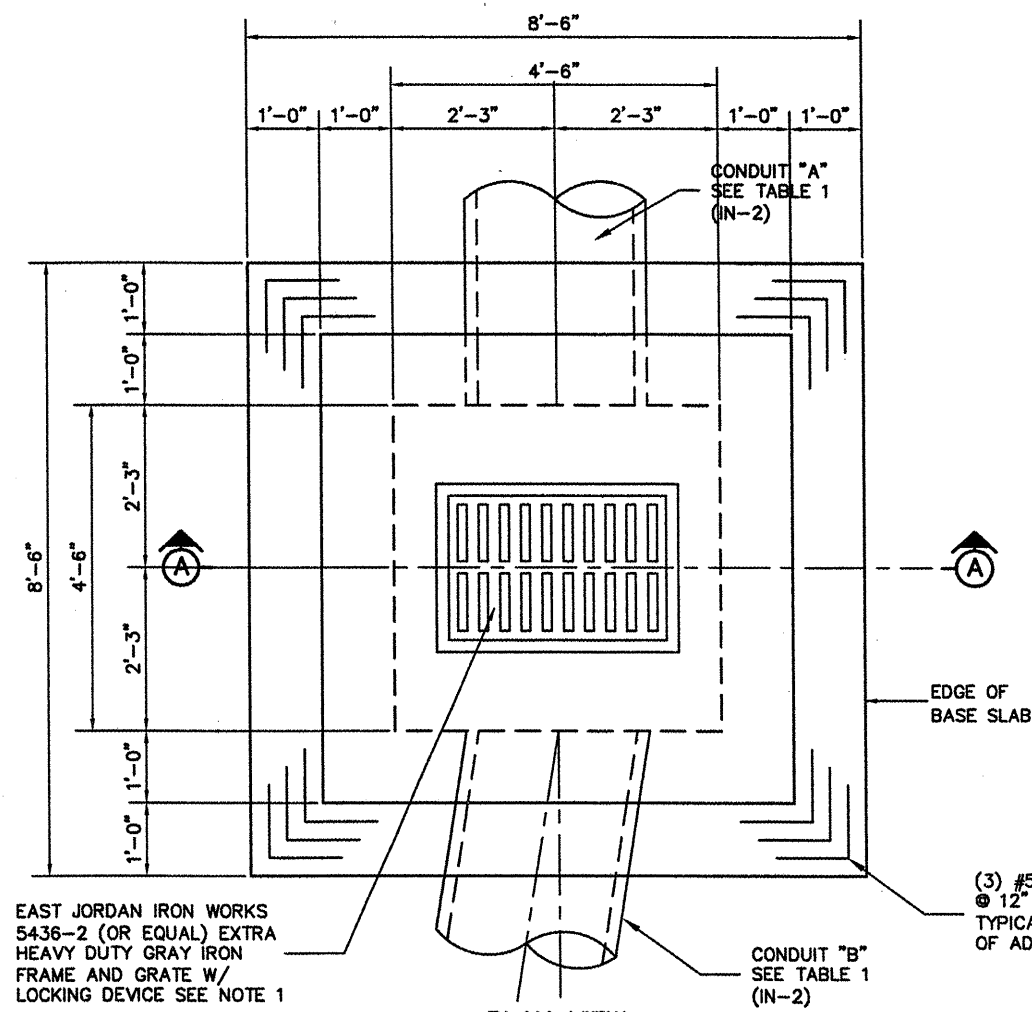
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WIDEN TAXIWAY G - PHASE 2  
 INLET - SPECIAL DETAIL

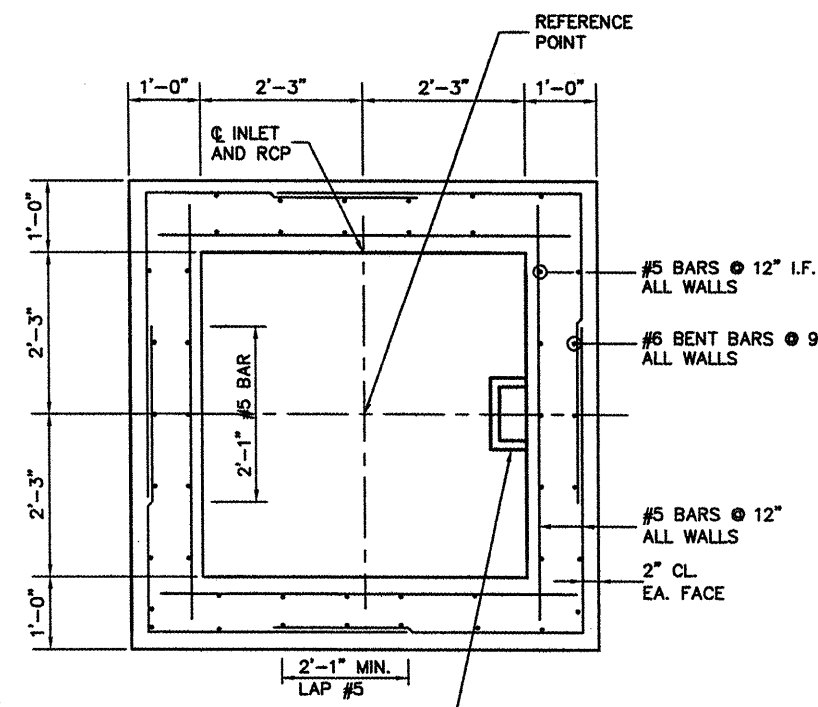
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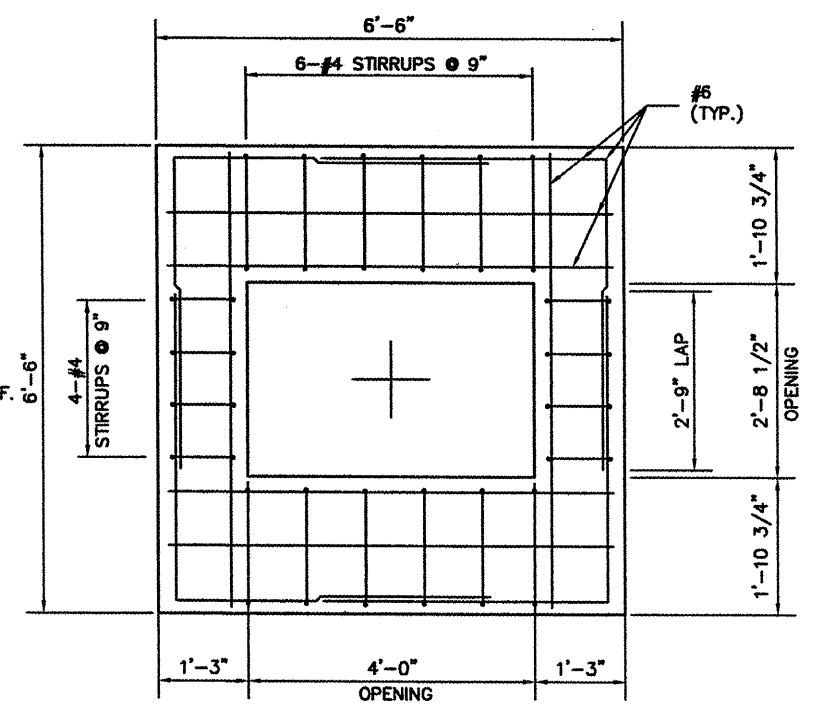
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 JOB No: 07035-09-00  
 IL PROJ. NO. SP1-3860  
 AIP PROJ. NO. 3-17-0096-XX  
 SHEET 35 OF 65 SHEETS



**PLAN VIEW**  
 3/4" = 1'-0"



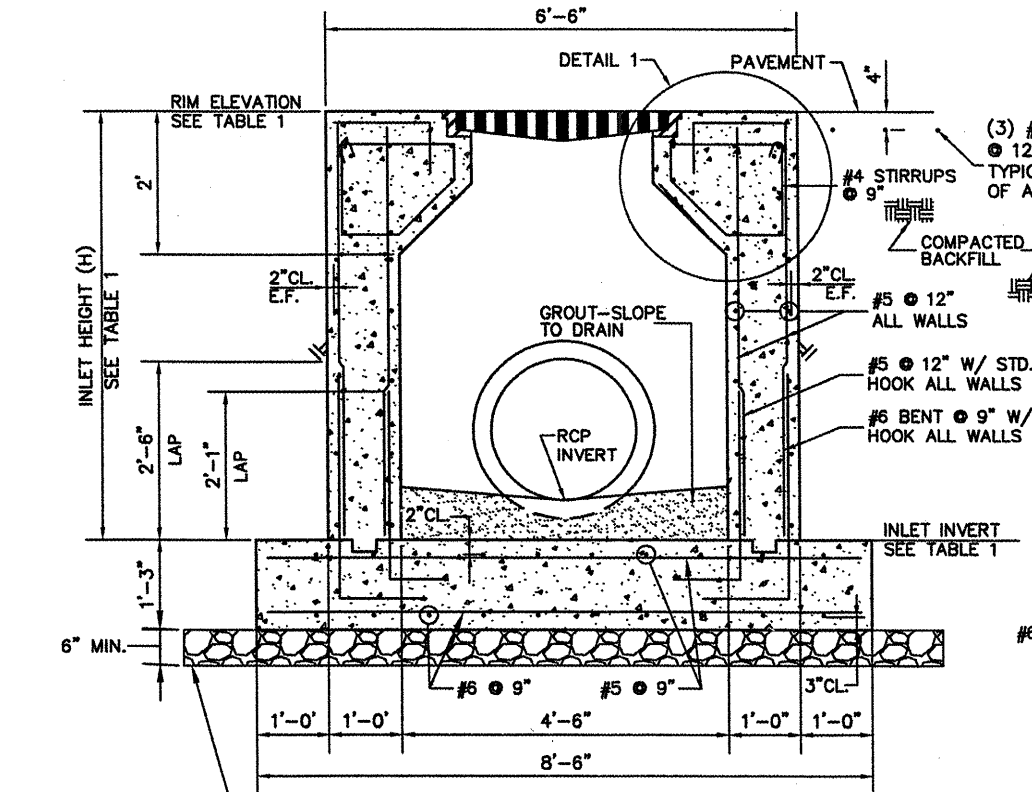
**WALL REINFORCEMENT PLAN**  
 3/4" = 1'-0"



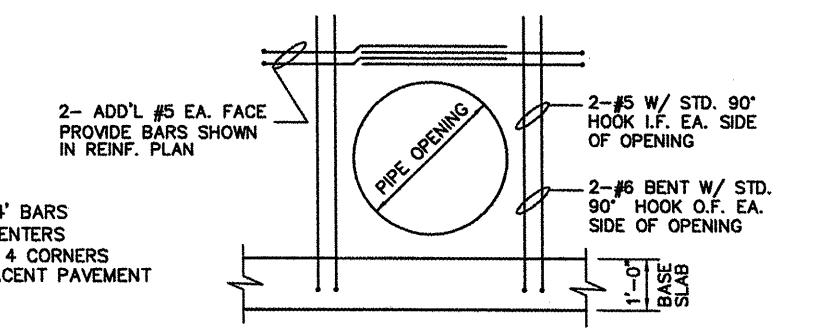
**TOP REINFORCEMENT PLAN**  
 3/4" = 1'-0"

**TABLE 1**

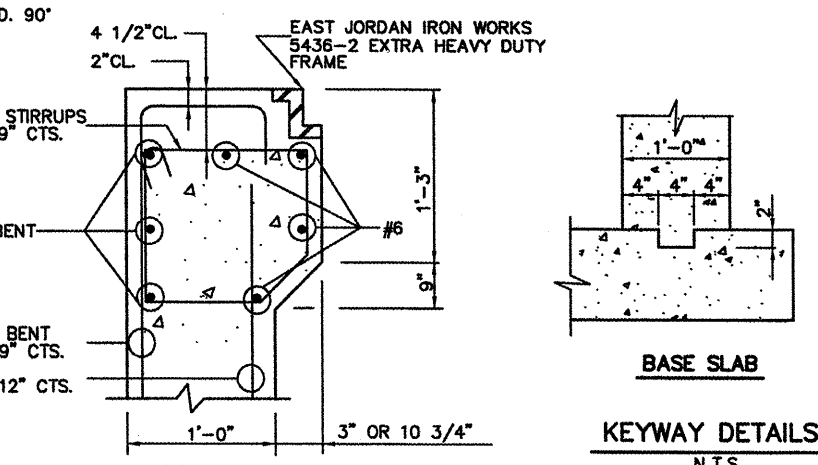
INLET	IN-2
REFERENCE POINT	1178+14.2
STA. & OFFSET	50' LT.
RIM ELEVATION	590.40
DIAMETER (SKEW)	
"A"	30" RCP (0')
"B"	30" RCP (9')
INVERT	584.08
INLET INVERT	583.58
INLET HEIGHT (H)	6'-10"



**SECTION A**  
 3/4" = 1'-0"



**ADDITIONAL REINFORCEMENT AROUND PIPE PENETRATIONS**  
 N.T.S.



**BASE SLAB**  
 N.T.S.

**DETAIL 1**  
 1 1/2" = 1'-0"

**DESIGN CRITERIA**

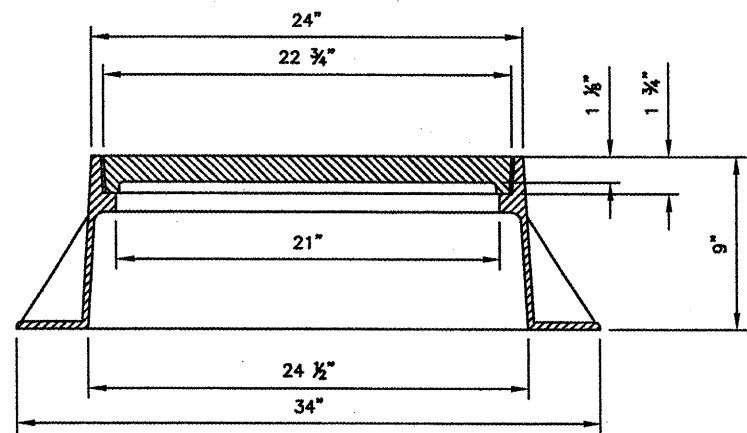
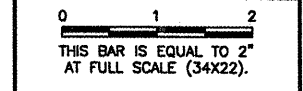
L.L. = BOEING AIRCRAFT 727-ADV200  
 WATER TABLE AT TOP OF INLET  
 NET ALLOWABLE SOIL BEARING PRESSURE = 2500 PSF

**GENERAL NOTES**

1. THE INLET GRATE SHALL BE SUPPORTED ON ALL FOUR SIDES.
2. ALL REINFORCEMENT BARS SHALL CONFORM TO ASTM A615 GRADE 60 AND SHALL BE CLEAN AND FREE OF GREASE, SCALING RUST AND OTHER FOREIGN MATERIALS.
3. INLET MAY BE CONSTRUCTED BY CAST-IN-PLACE CONCRETE OR PRECAST CONCRETE. PRECAST CONCRETE INLETS SHALL BE CONSTRUCTED TO THE LINES, DIMENSIONS AND DETAILS SHOWN ON THIS SHEET.
4. CAST-IN-PLACE CONCRETE AND PRECAST CONCRETE FOR THE INLETS SHALL HAVE A MINIMUM 14 DAYS COMPRESSIVE STRENGTH OF 3500 PSI.
5. THE CONTRACTOR SHALL VERIFY THE LOCATION AND SIZE OF PIPE OPENINGS WITH TABLE 1, THIS SHEET.
6. ALL FOOTING EXCAVATIONS SHALL BE CLEAN FREE OF DEBRIS, STANDING WATER AND LOOSE SOIL AND SHALL BE INSPECTED BY THE ENGINEER PRIOR TO THE PLACEMENT OF CONCRETE OR SUBBASE.
7. CONCRETE SHALL NOT BE PLACED OVER FROZEN OR MUDDY SOIL.
8. ADDITIONAL REINFORCEMENT FOR PIPE PENETRATIONS NOT REQUIRED FOR 4" DIA. PIPES OR LESS.

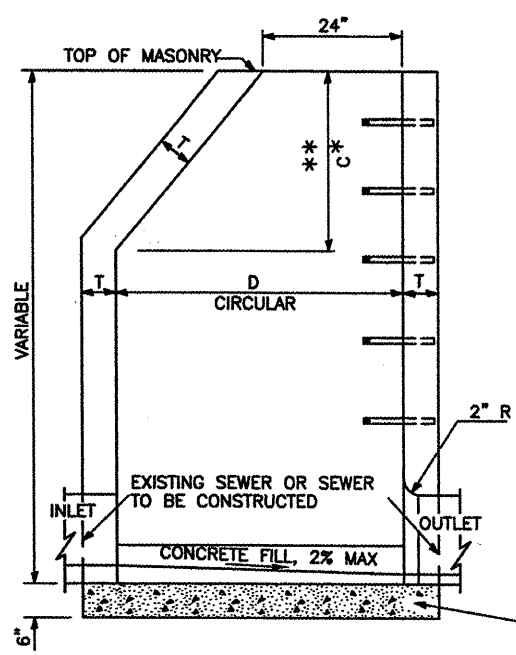
**CA007**

REVISIONS		
NUMBER	BY	DATE

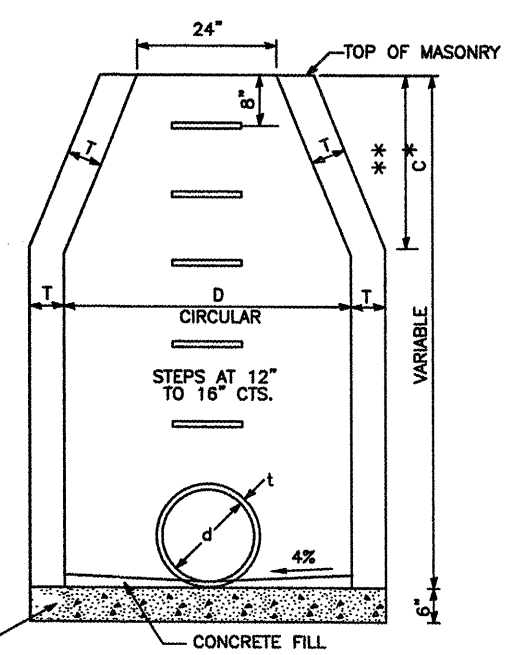


**MANHOLE FRAME, OPEN LID**  
 NEENAH R-2504-D OR EQUIVALENT  
 N.T.S.

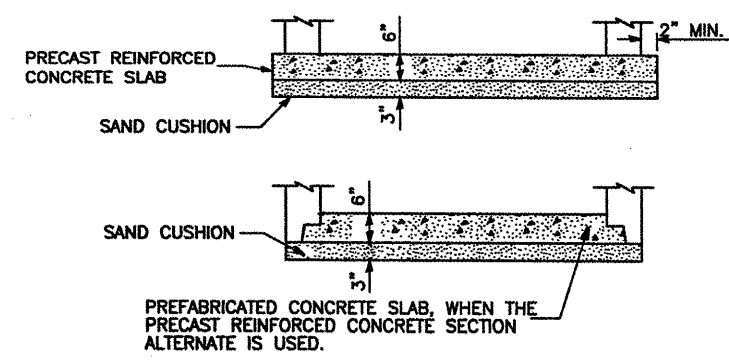
NOTE 1: LID SHALL BE BOLTED TO FRAME.



**ELEVATION - ECCENTRIC**



**ELEVATION - CONCENTRIC**



**ALTERNATE BOTTOM SLAB**

ALTERNATE MATERIALS FOR WALLS	D	C	T (MIN.)
CONCRETE MASONRY UNIT	4'-0" 5'-0"	30" 3'-9"	5" 5"
BRICK MASONRY	4'-0" 5'-0"	30" 3'-9"	8" 8"
PRECAST REINFORCED CONCRETE SECTION	4'-0" 5'-0"	30" 3'-9"	4" 5"
CAST-IN-PLACE CONCRETE	4'-0" 5'-0"	30" 3'-9"	6" 6"

**GENERAL NOTES**

- SEE STANDARD 602701 FOR DETAILS OF STEPS.
- \* DIMENSION "C" FOR PRECAST REINFORCED CONCRETE SECTIONS MAY VARY FROM THE DIMENSION GIVEN TO PLUS 6".
- \*\* SEE STANDARD 602601 FOR OPTIONAL PRECAST REINFORCED CONCRETE FLAT SLAB TOP.

**TYPE A MANHOLE DETAIL**  
 IDOT STANDARD 602401-1  
 N.T.S.



SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY G - PHASE 2

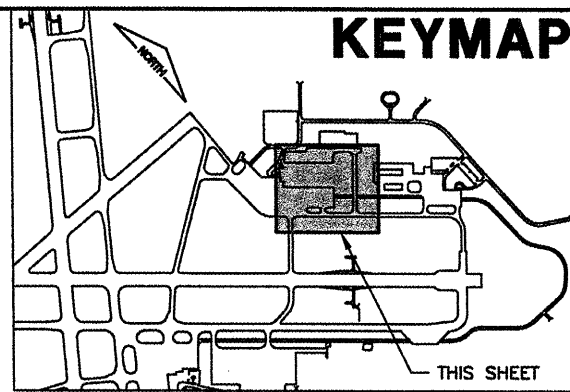
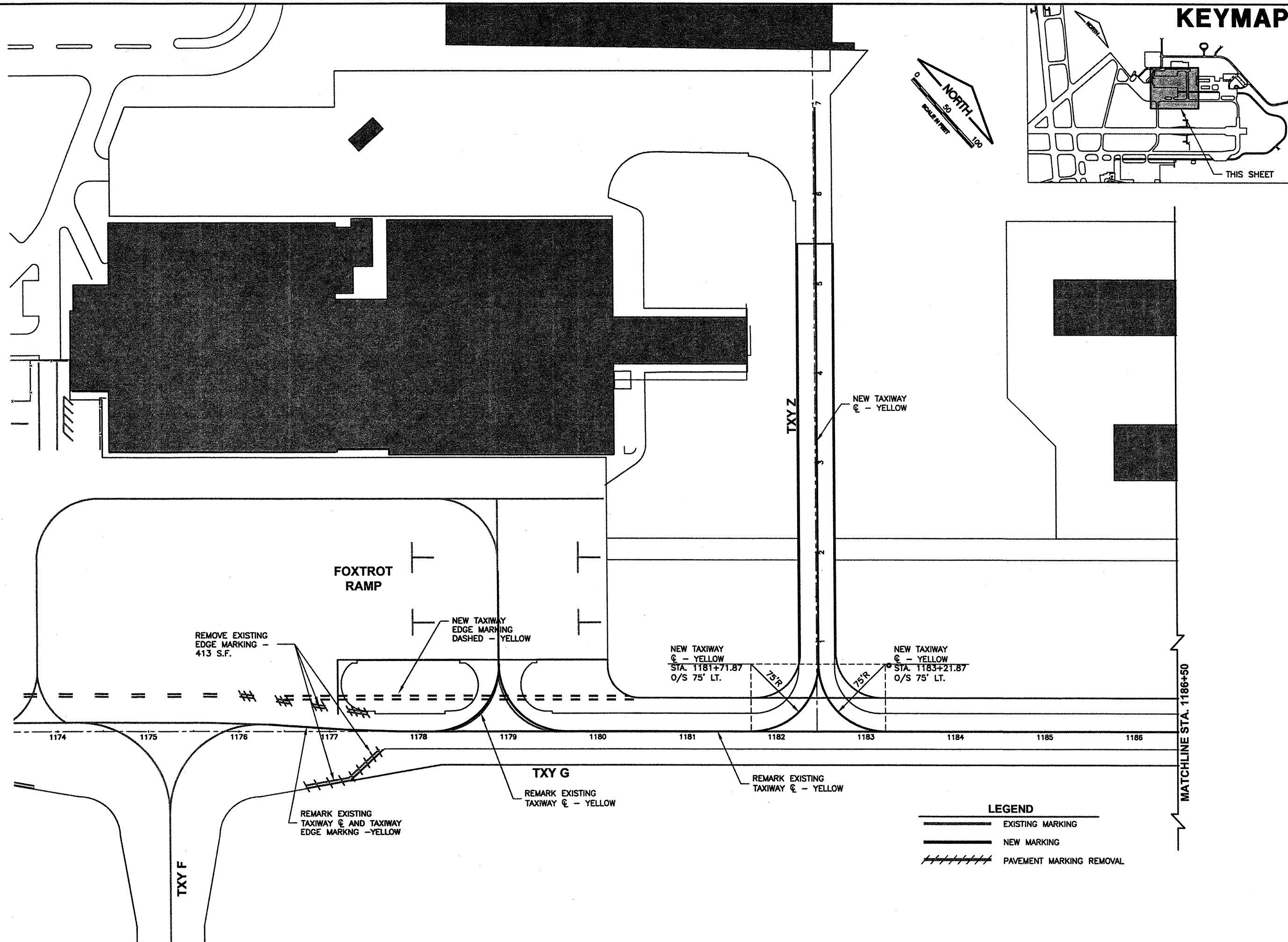
MANHOLE DETAIL

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APPROVED BY:	RLV
DATE:	01/30/2009
JOB No:	07035-09-00
IL PROJ. NO. SPI-3860	
AIP PROJ. NO. 3-17-0096-XX	
SHEET 36 OF 65 SHEETS	

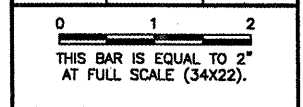



# KEYMAP

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 UPDATE BY: Kristy Brod  
 PLOT DATE: 1/26/2009 10:31 AM  
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 BASE\_PROPMARK  
 KEY  
 BASE\_EXISTTOPO  
 BASE\_EXISTGEO

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WIDEN TAXIWAY G - PHASE 2  
MARKING PLAN 1




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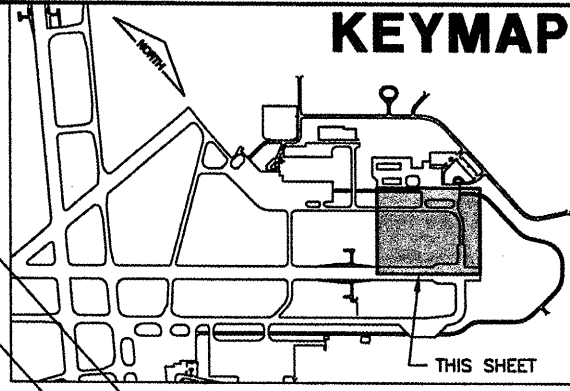
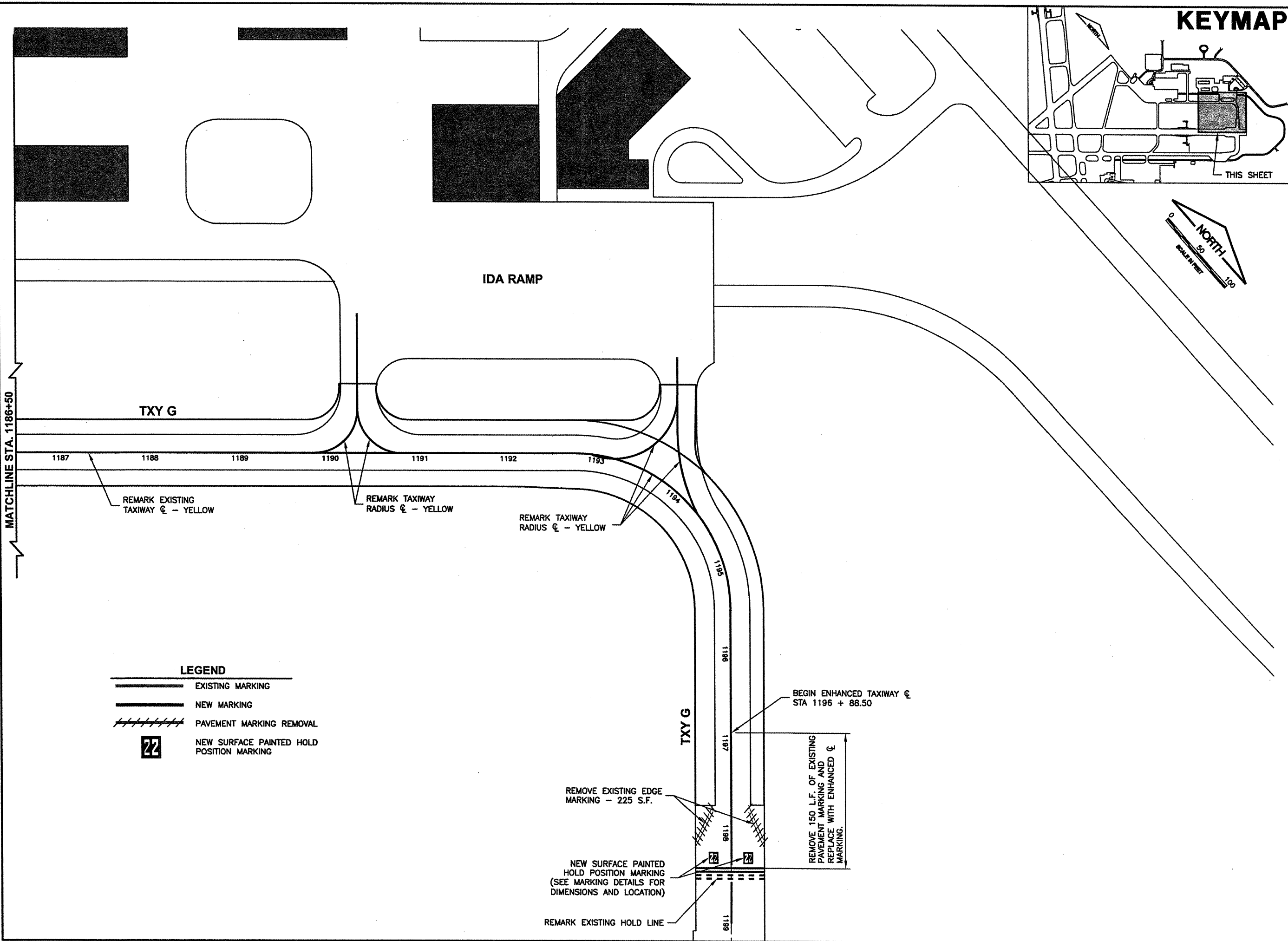


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JOB No:	07035-09-00
IL PROJ. NO. SPI-3860	
AIP PROJ. NO. 3-17-0096-XX	
SHEET 37 OF 65 SHEETS	

### LEGEND

-  EXISTING MARKING
-  NEW MARKING
-  PAVEMENT MARKING REMOVAL



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 PLOT DATE: 1/26/2009 10:38 AM  
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 BASE\_EXISTGEO  
 BASE\_EXISTTOPG  
 BASE\_PROPMARK

CA007

REVISIONS		
NUMBER	BY	DATE

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



SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY G - PHASE 2  
 MARKING PLAN 2

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CHECKED BY:	<i>RW</i>
APPROVED BY:	<i>RW</i>
DATE:	01/30/2009
JOB No:	07035-09-00
IL PROJ. NO.	SPI-3860
AIP PROJ. NO.	3-17-0096-XX
SHEET 38 OF 65 SHEETS	

**LEGEND**

	EXISTING MARKING
	NEW MARKING
	PAVEMENT MARKING REMOVAL
	NEW SURFACE PAINTED HOLD POSITION MARKING

REMARK TAXIWAY RADIUS ☉ - YELLOW

REMARK EXISTING TAXIWAY ☉ - YELLOW

REMARK TAXIWAY RADIUS ☉ - YELLOW

REMOVE EXISTING EDGE MARKING - 225 S.F.

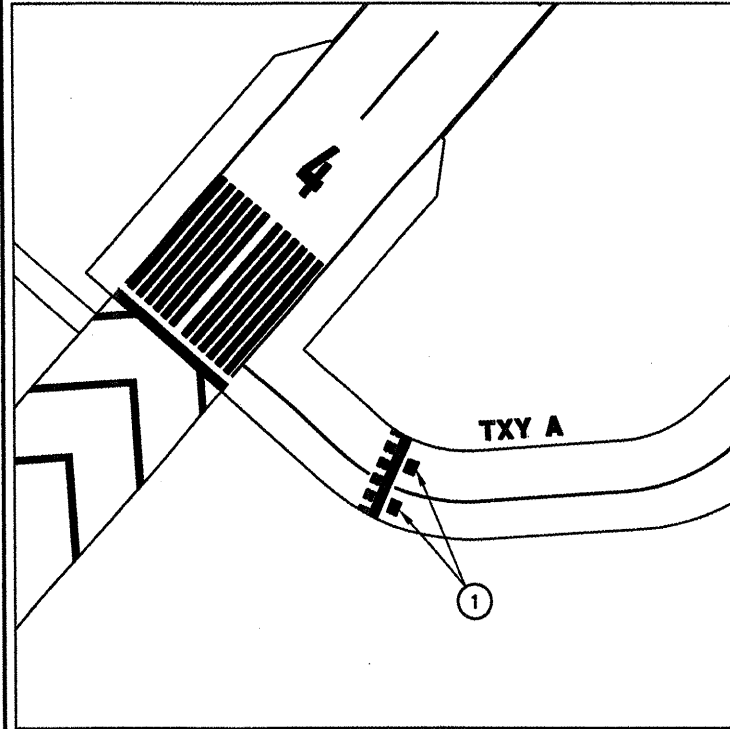
NEW SURFACE PAINTED HOLD POSITION MARKING (SEE MARKING DETAILS FOR DIMENSIONS AND LOCATION)

REMARK EXISTING HOLD LINE

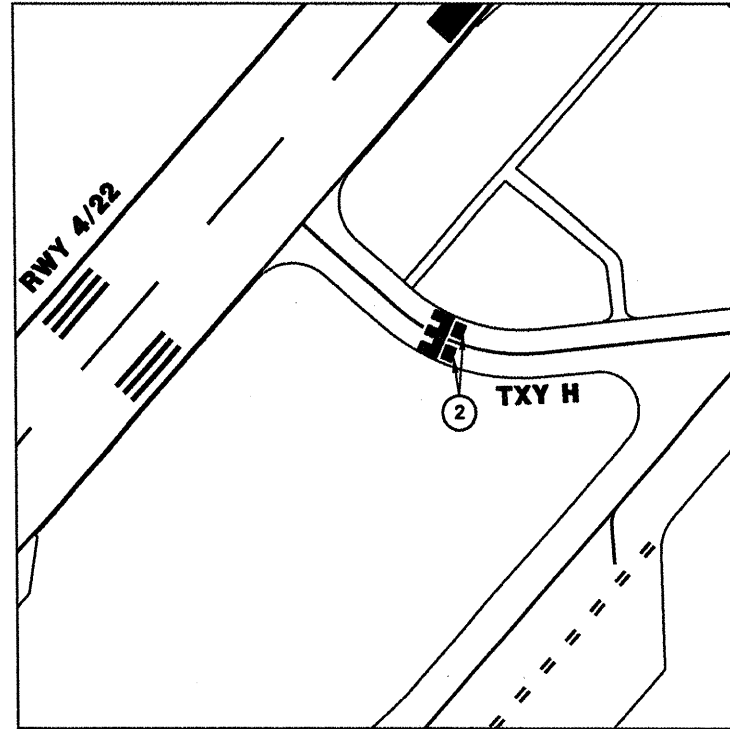
BEGIN ENHANCED TAXIWAY ☉ STA 1196 + 88.50

REMOVE 150 L.F. OF EXISTING PAVEMENT MARKING AND REPLACE WITH ENHANCED ☉ MARKING.

MATCHLINE STA. 1186+50



TXY A - RWY 4/22



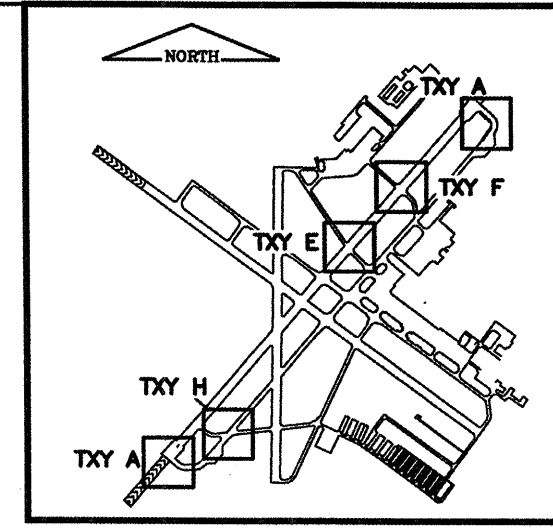
TXY H - RWY 4/22

- NOTES:**
1. THE SURFACE PAINTED HOLD POSITION MARKINGS SHOWN ARE USED TO EXPRESS THE APPROXIMATE LOCATIONS. SEE MARKING DETAILS 2 AND MARKING SCHEDULE FOR MARKING DIMENSIONS AND LOCATIONS.
  2. ALL SURFACE PAINTED HOLD POSITION MARKINGS PLACED SHALL CONFORM TO THE REGULATIONS SET FORTH IN THE FAA ADVISORY CIRCULAR AC 150/5340-1J CHANGE 2.

**LEGEND**

① MARKING NUMBER - SEE MARKING DETAILS FOR FURTHER INFORMATION

■ NEW HOLD POSITION MARKING

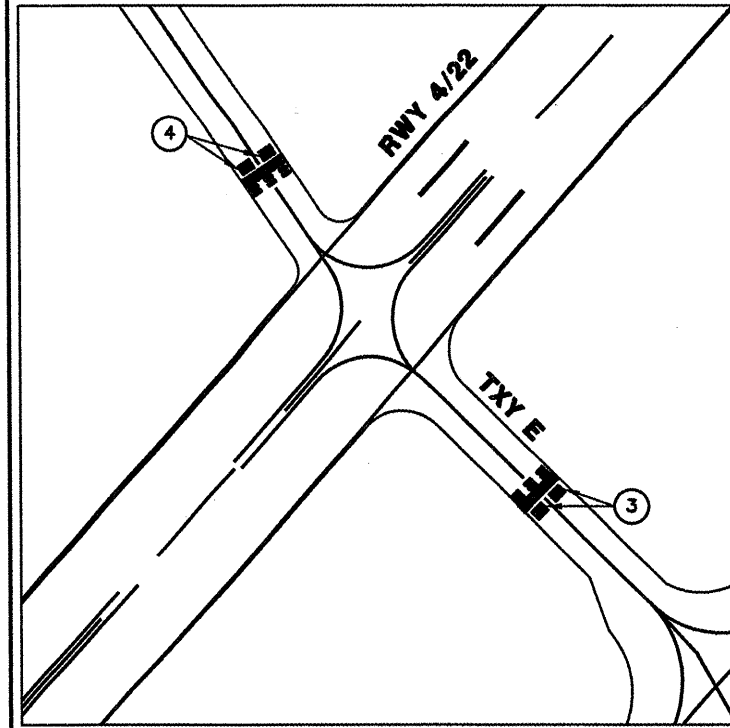


KEYMAP

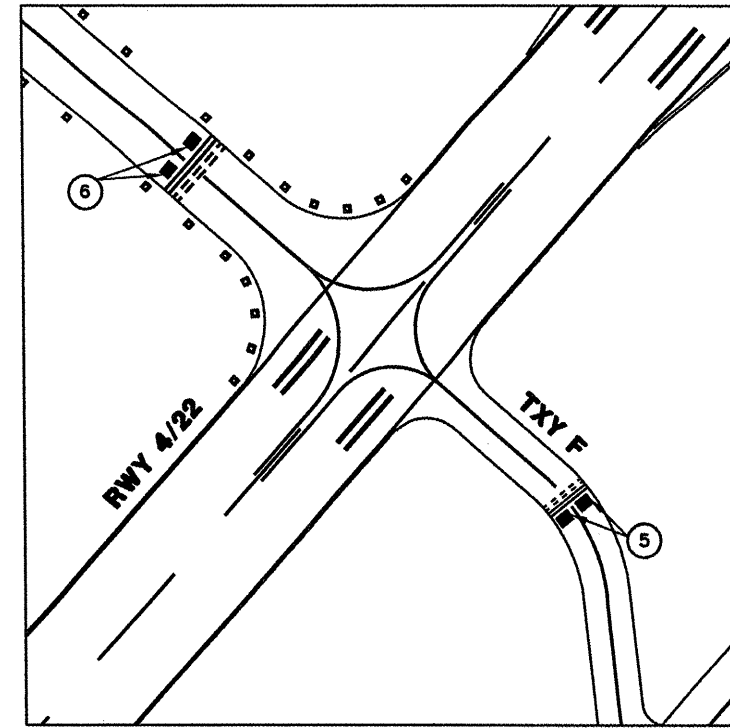
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 UPDATE BY: Kristy Brod  
 PLOT DATE: 1/26/2009 10:16 AM  
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 SPI-BASE  
 BASE\_EXISTMARK  
 BASE\_EXISTSIGNS  
 BASE\_EXISTTOPO  
 BASE\_EXISTGEO  
 KEYMAP  
 SPI-LOGO  
**CA007**

REVISIONS		
NUMBER	BY	DATE

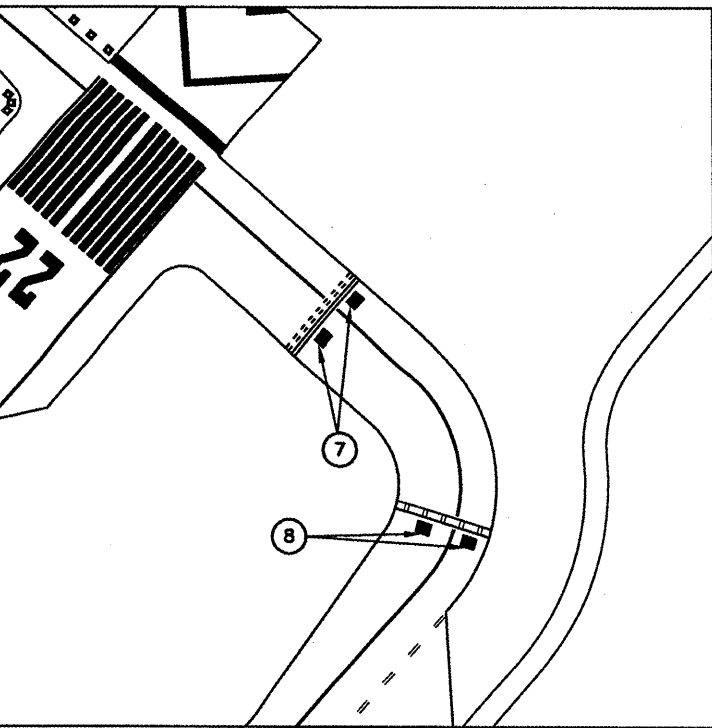
0 1 2  
 THIS BAR IS EQUAL TO 2"  
 AT FULL SCALE (34X22).



TXY E - RWY 4/22



TXY F - RWY 4/22



CONNECTING TXY A - RWY 4/22

NORTH

0 100 200  
 SCALE IN FEET

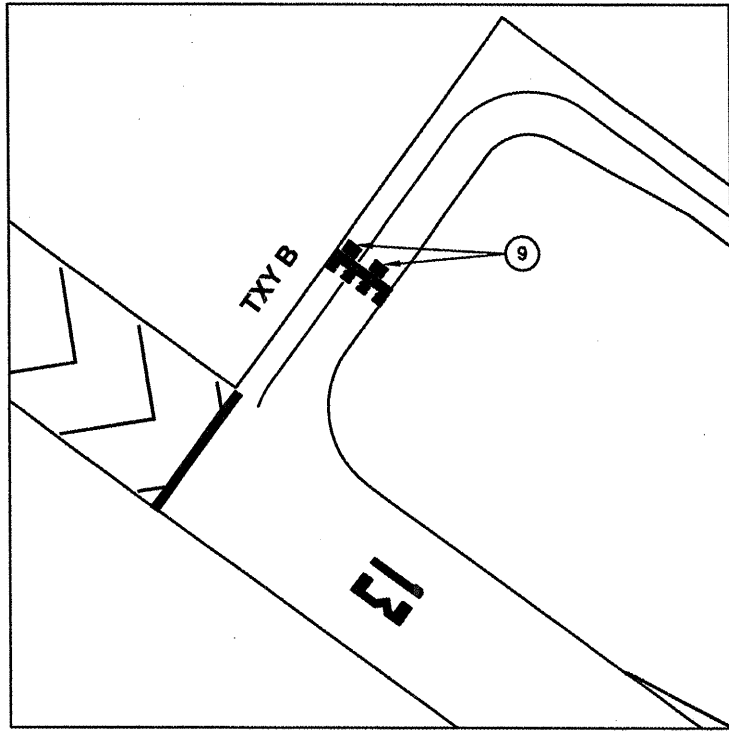


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 SPRINGFIELD, ILLINOIS

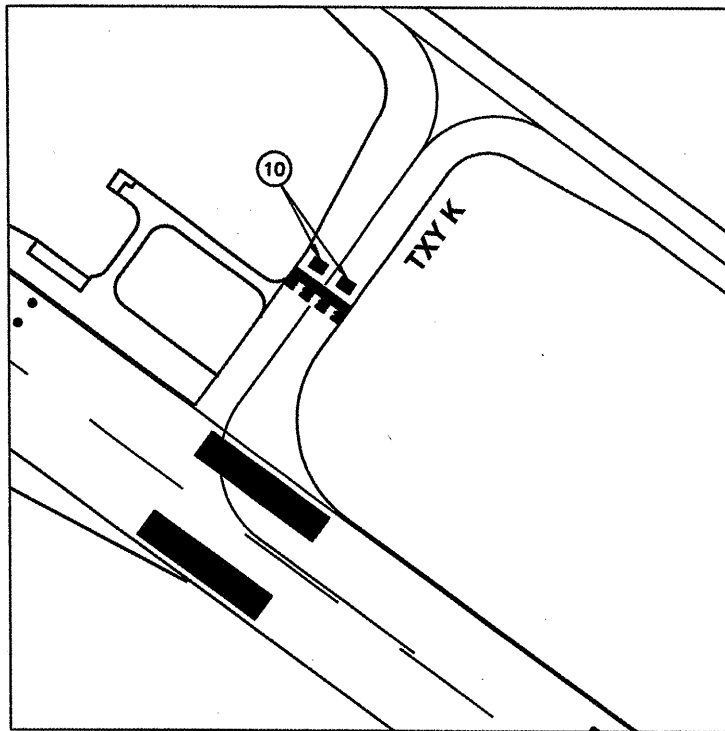
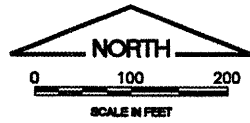
WIDEN TAXIWAY G - PHASE 2  
 MARKING PLAN 3

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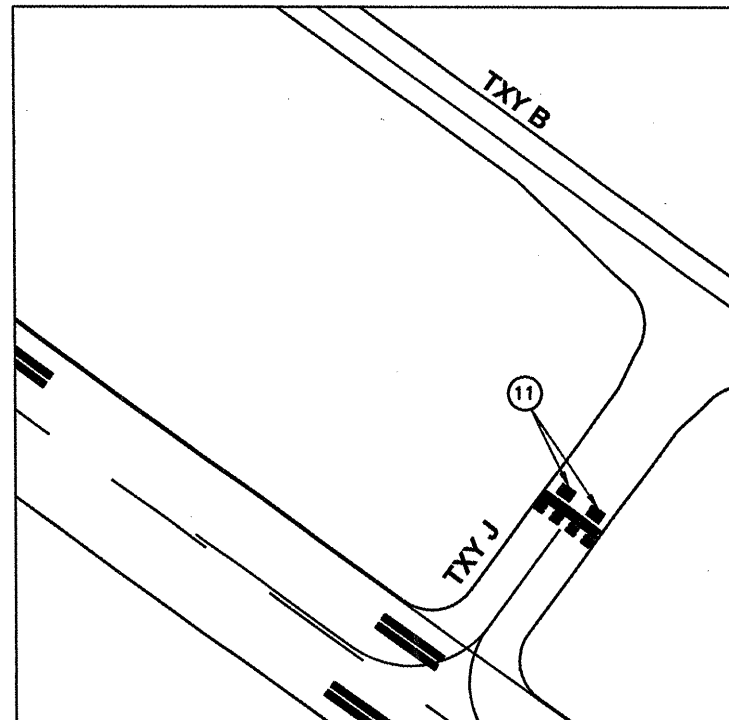
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DRAWN BY:	TJH
CHECKED BY:	RLV
APPROVED BY:	RLV
DATE:	01/30/2009
JOB No:	07035-09-00
IL PROJ. NO.	SPI-3860
AIP PROJ. NO.	3-17-0096-XX
SHEET	39 OF 65 SHEETS



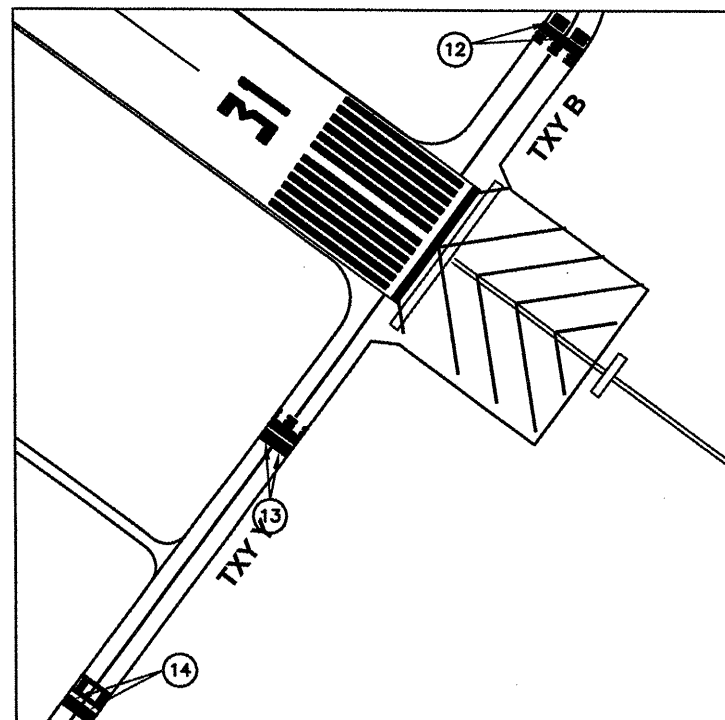
TXY B - RWY 13



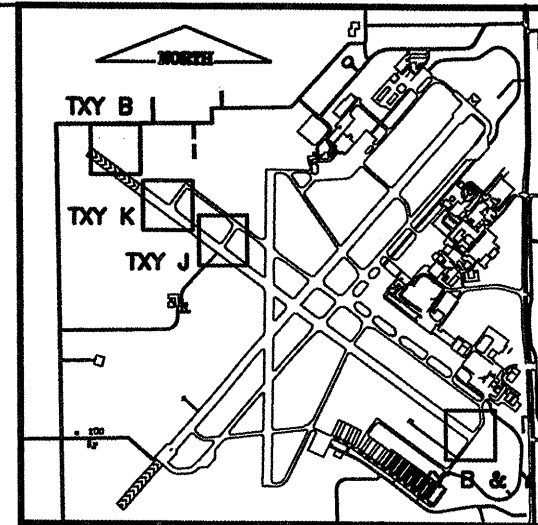
TXY K - RWY 31/13



TXY J - RWY 31/13



CONNECTING TXY B & Y - RWY 31



**KEYMAP**

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 UPDATE BY: Kristy Brod  
 PLOT DATE: 1/26/2009 10:16 AM  
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 BASE\_EXISTMARK  
 BASE\_PROPELEC  
 BASE\_EXISTSIGNS  
 BASE\_EXISTTOPO  
 SPIBASE\_EXISTGEO  
 SPI-LOGO  
 KEYMAP  
**CA007**

REVISIONS		
NUMBER	BY	DATE

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

**NOTES:**

1. THE SURFACE PAINTED HOLD POSITION MARKINGS SHOWN ARE USED TO EXPRESS THE APPROXIMATE LOCATIONS. SEE MARKING DETAILS 2 AND MARKING SCHEDULE FOR MARKING DIMENSIONS AND LOCATIONS.
2. ALL SURFACE PAINTED HOLD POSITION MARKINGS PLACED SHALL CONFORM TO THE REGULATIONS SET FORTH IN THE FAA ADVISORY CIRCULAR AC 150/5340-1J CHANGE 2.

**LEGEND**

- ⑨ MARKING NUMBER - SEE MARKING DETAILS FOR FURTHER INFORMATION
- NEW HOLD POSITION MARKING



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 SPRINGFIELD, ILLINOIS**

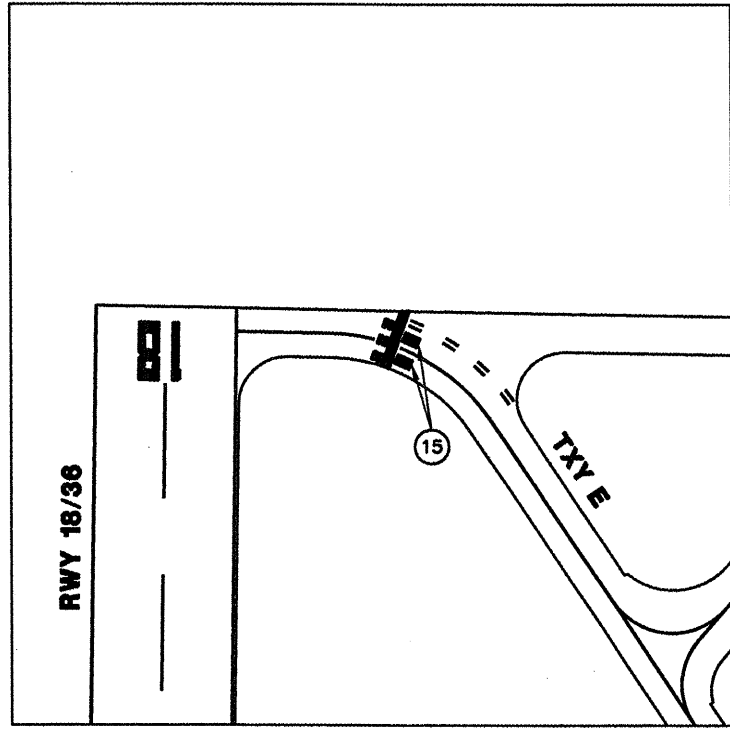
**WIDEN TAXIWAY G - PHASE 2  
 MARKING PLAN 4**

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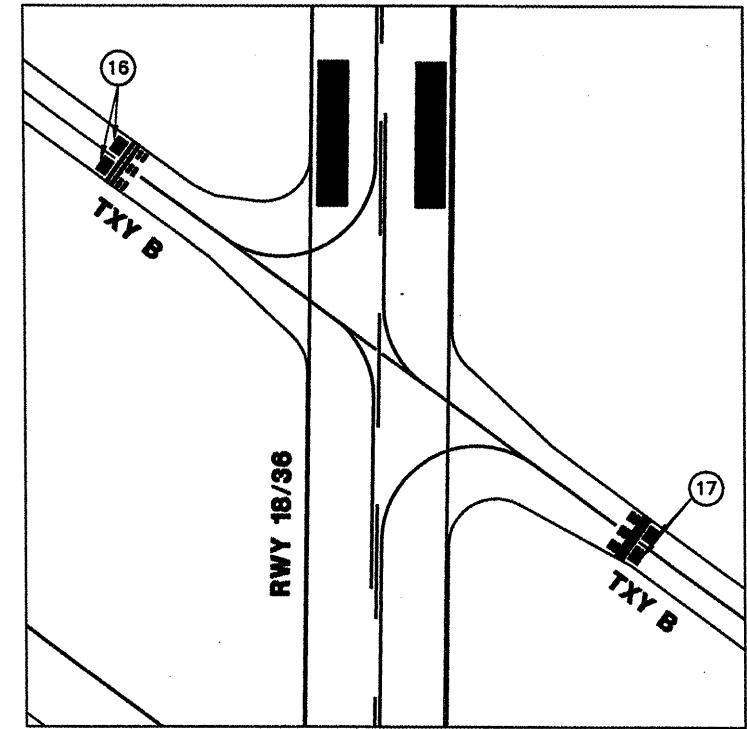


DESIGN BY:	RLV
DRAWN BY:	TJH
CHECKED BY:	REN
APPROVED BY:	REN
DATE:	01/30/2009
JOB No:	07035-09-00
IL PROJ. NO. SPI-3860	
AIP PROJ. NO. 3-17-0096-XX	
SHEET 40 OF 65 SHEETS	

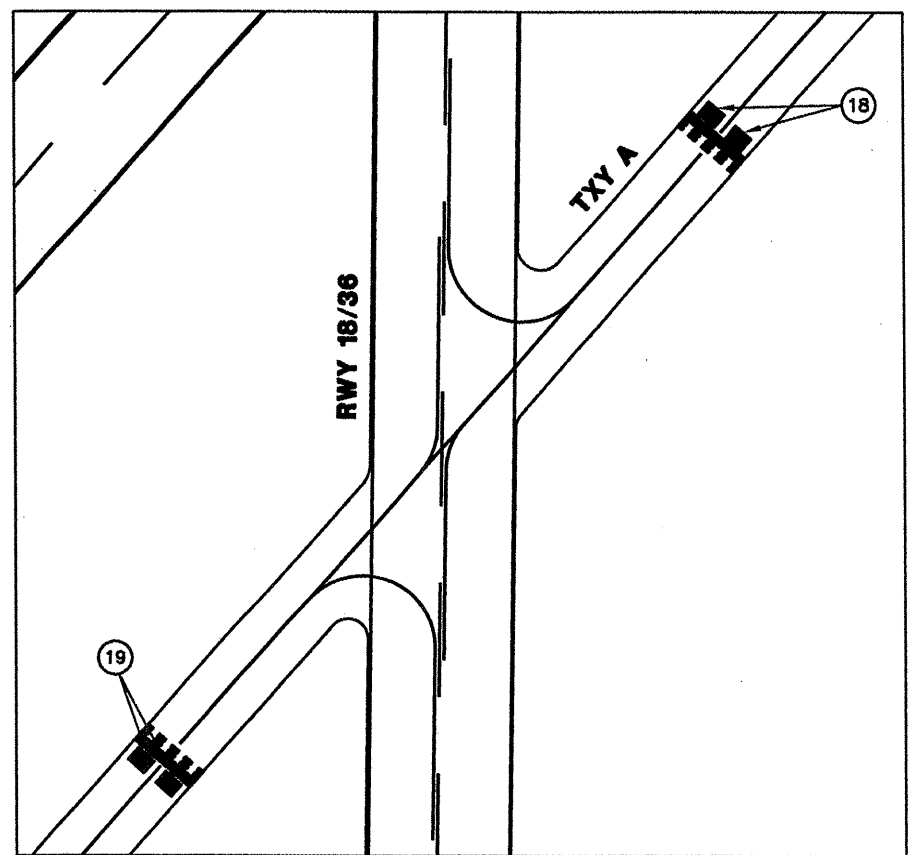




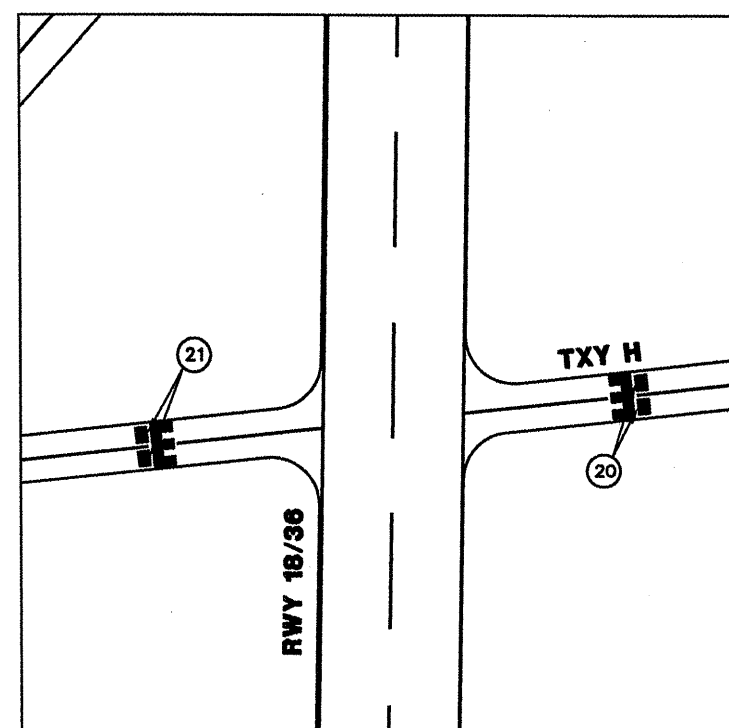
TXY E - RWY 18/36



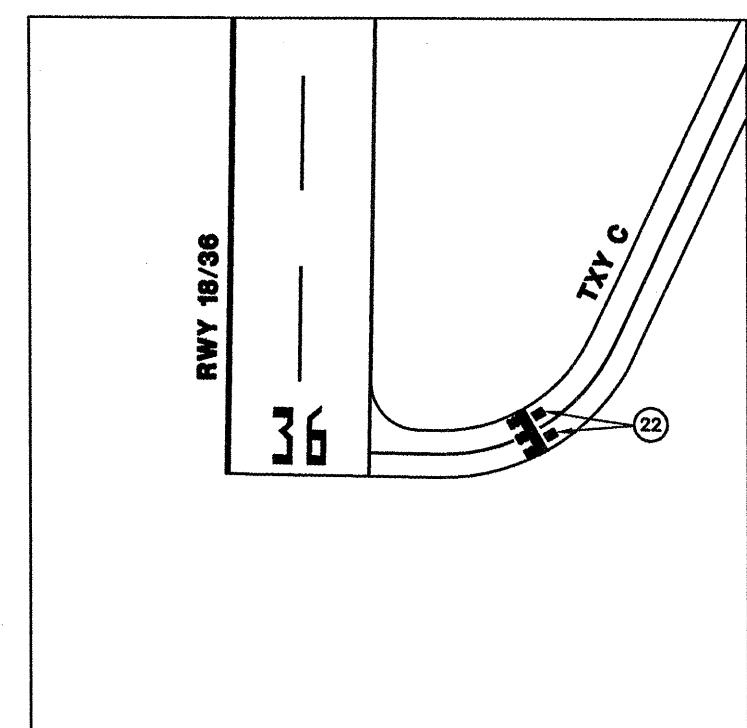
TXY B - RWY 18/36



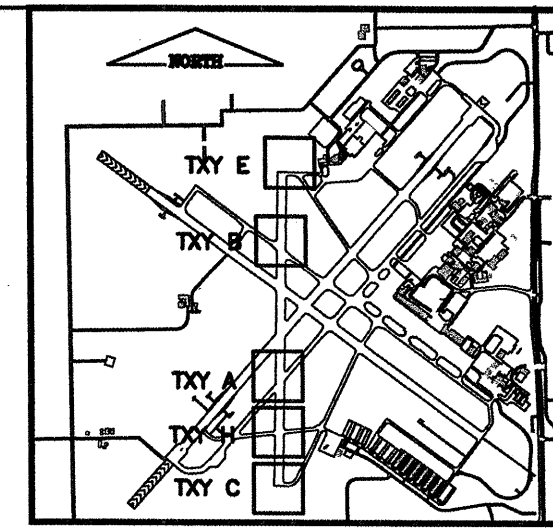
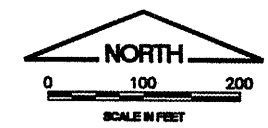
TXY A - RWY 18/36



TXY H - RWY 18/36



TXY C - RWY 36/18



KEYMAP

NOTES:

1. THE SURFACE PAINTED HOLD POSITION MARKINGS SHOWN ARE USED TO EXPRESS THE APPROXIMATE LOCATIONS. SEE MARKING DETAILS 2 AND MARKING SCHEDULE FOR MARKING DIMENSIONS AND LOCATIONS.
2. ALL SURFACE PAINTED HOLD SIGN MARKINGS PLACED SHALL CONFORM TO THE REGULATIONS SET FORTH IN THE FAA ADVISORY CIRCULAR AC 150/5340-1J CHANGE 2.

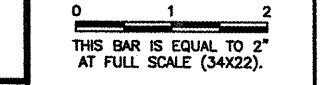
LEGEND

- Ⓜ MARKING NUMBER - SEE MARKING DETAILS FOR FURTHER INFORMATION
- NEW HOLD POSITION MARKING

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 FILE: MARK05.dwg  
 UPDATE BY: Kristy Brod  
 PLOT DATE: 1/26/2009 10:16 AM  
 BASE\_PROPGEO  
 BASE\_EXISTMARK  
 BASE\_PROPELEC  
 BASE\_EXISTTOPO  
 SPIBASE\_EXISTGEO  
 KEYMAP  
 SPI-LOGO

CA007

REVISIONS		
NUMBER	BY	DATE



SPRINGFIELD AIRPORT AUTHORITY  
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 SPRINGFIELD, ILLINOIS

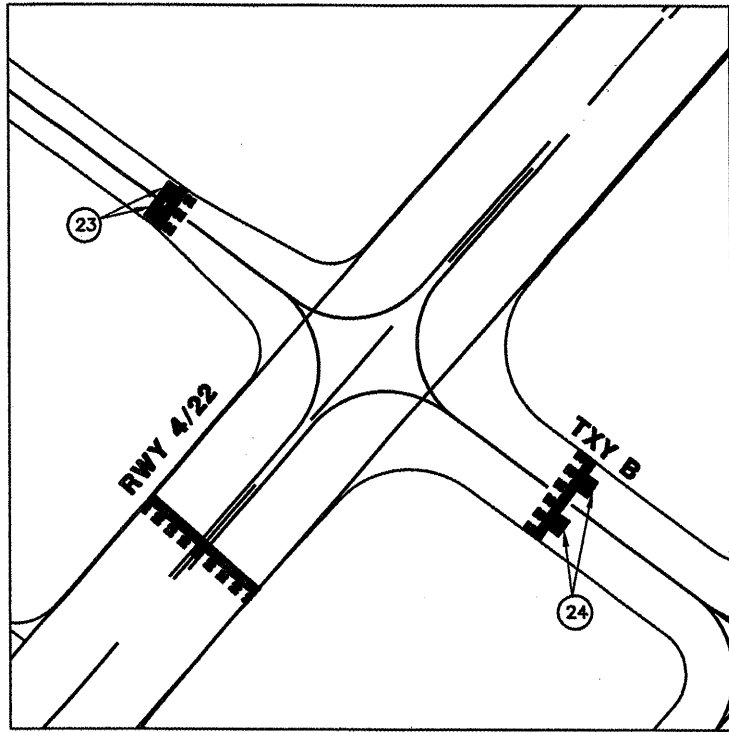
WIDEN TAXIWAY G - PHASE 2

MARKING PLAN 5

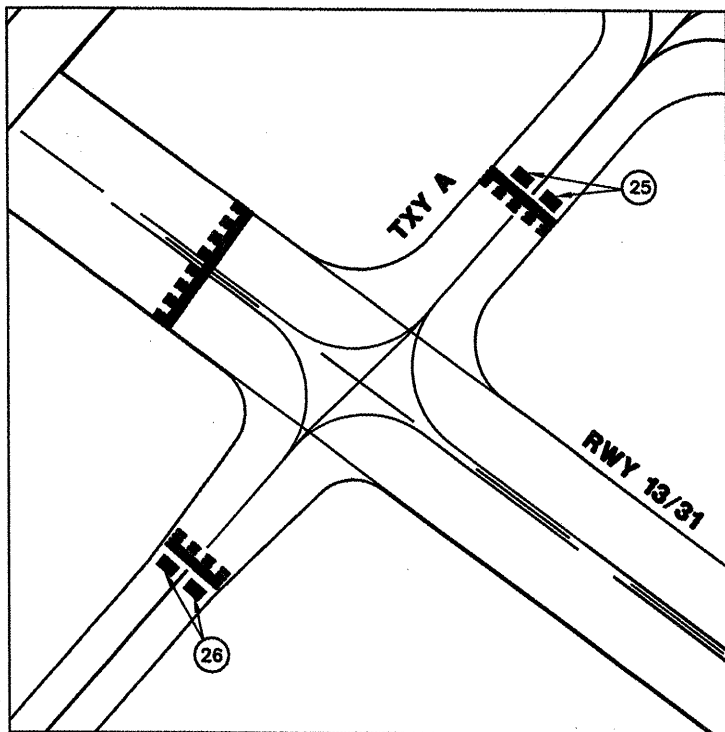
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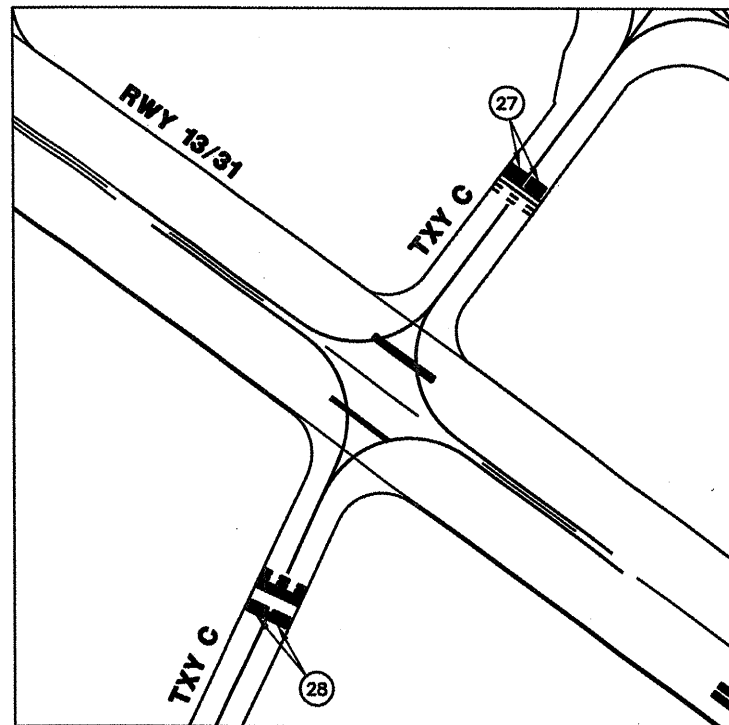
DESIGN BY:	RLV
DRAWN BY:	TJH
CHECKED BY:	RW
APPROVED BY:	RW
DATE:	01/30/2009
JOB No:	07035-09-00
IL PROJ. NO.	SPI-3860
AIP PROJ. NO.	3-17-0096-XX
SHEET	41 OF 65 SHEETS



TXY B - RWY 4/22



TXY A - RWY 31/13





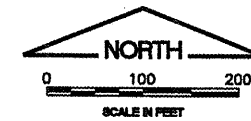
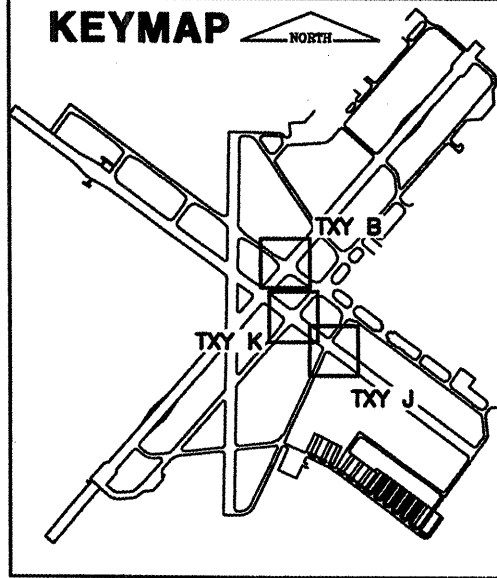
TXY C - RWY 31/13

**NOTES:**

1. THE SURFACE PAINTED HOLD POSITION MARKINGS SHOWN ARE USED TO EXPRESS THE APPROXIMATE LOCATIONS. SEE MARKING DETAILS 2 AND MARKING SCHEDULE FOR MARKING DIMENSIONS AND LOCATIONS.
2. ALL SURFACE PAINTED HOLD POSITION MARKINGS PLACED SHALL CONFORM TO THE REGULATIONS SET FORTH IN THE FAA ADVISORY CIRCULAR AC 150/5340-1J CHANGE 2.
3. THE SURFACE PAINTED HOLDING POSITION MARKINGS SHOWN ON THIS SHEET ARE EXISTING MARKINGS THAT ARE TO BE REMOVED.
4. NEW SURFACE PAINTED HOLDING POSITION MARKINGS ARE TO BE PLACED IN THE SAME LAYOUT AS THE EXISTING MARKINGS SHOWN.
5. NEW SURFACE PAINTED HOLDING POSITION MARKINGS ARE TO BE THE DIMENSIONS AND STYLE AS SHOWN IN THE MARKING DETAILS SHEETS.

**LEGEND**

-  MARKING NUMBER -- SEE MARKING DETAILS FOR FURTHER INFORMATION
-  NEW HOLD POSITION MARKING



K:\Springfield\0703509\Draw\Sheets\Phase 2 Full  
 FILE: MARK06.dwg  
 UPDATE BY: Kristy Brod  
 PLOT DATE: 1/26/2009 10:16 AM  
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 BASE\_EXISTMARK  
 BASE\_PROPELEC  
 BASE\_EXISTSIGNS  
 BASE\_EXISTTOPO  
 SPIBASE\_EXISTGEO  
 SPI-LOGO

**CA007**

REVISIONS		
NUMBER	BY	DATE

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



SPRINGFIELD AIRPORT AUTHORITY  
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WIDEN TAXIWAY G - PHASE 2  
 MARKING PLAN 6

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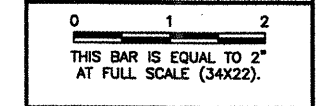


DESIGN BY:	RLV
DRAWN BY:	TJH
CHECKED BY:	RLV
APPROVED BY:	RLV
DATE:	01/30/2009
JOB No:	07035-09-00

IL PROJ. NO. SPI-3860  
 AIP PROJ. NO. 3-17-0096-XX  
 SHEET 42 OF 65 SHEETS

**CA007**

REVISIONS		
NUMBER	BY	DATE

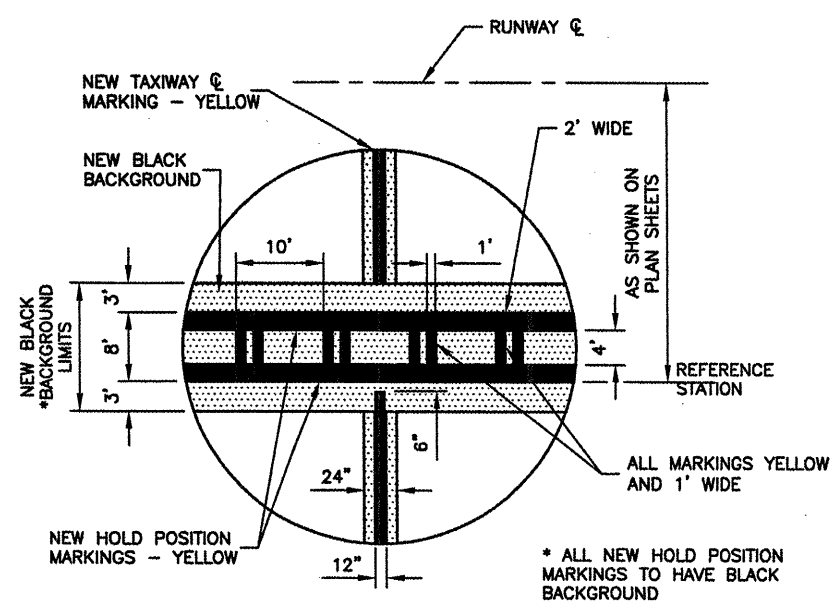


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 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS**

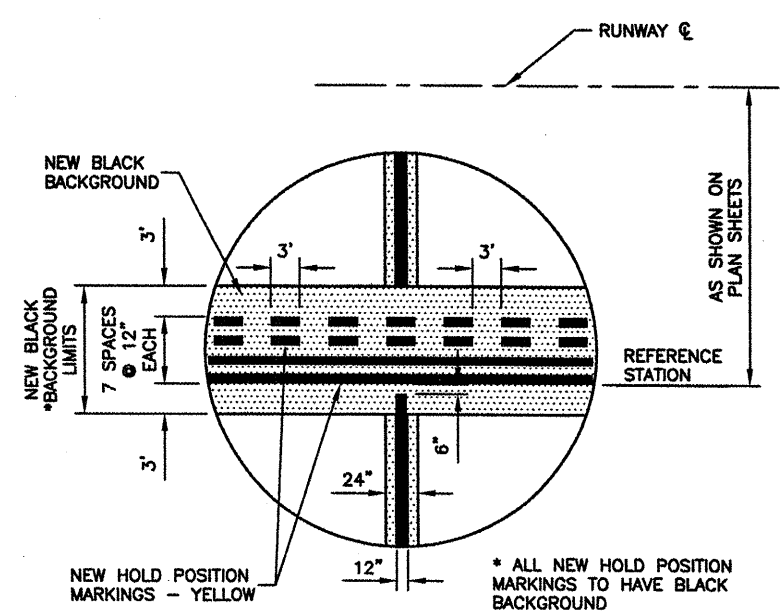
**WIDEN TAXIWAY G - PHASE 2  
 MARKING DETAILS 1**

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DRAWN BY:	CMT
CHECKED BY:	<i>REB</i>
APPROVED BY:	<i>REB</i>
DATE:	01/30/2009
JOB No:	07035-09-00
IL PROJ. NO.	SPI-3860
AIP PROJ. NO.	3-17-0096-XX
SHEET	43 OF 65 SHEETS

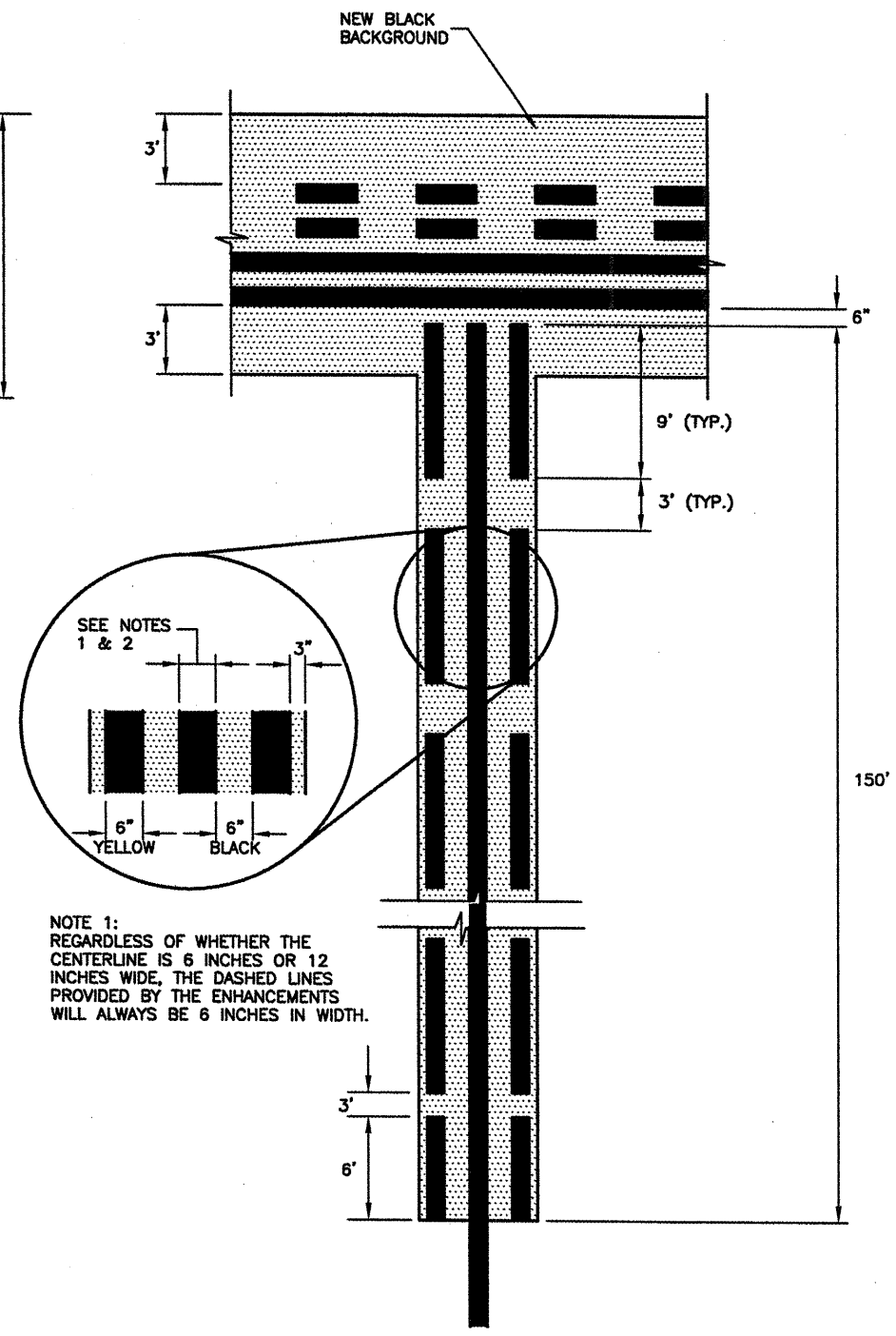


**ILS HOLD POSITION MARKING DETAIL**



**HOLD POSITION MARKING DETAIL**

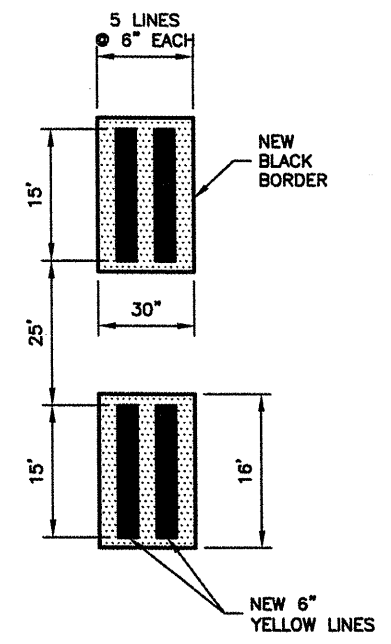
N.T.S.



**ENHANCED TAXIWAY CENTERLINE MARKING**

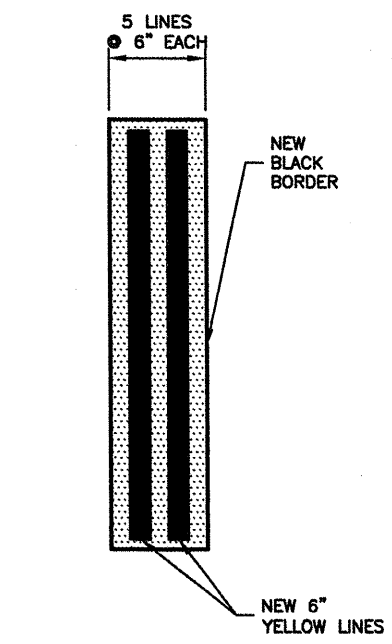
N.T.S.

NOTE 1:  
 REGARDLESS OF WHETHER THE CENTERLINE IS 6 INCHES OR 12 INCHES WIDE, THE DASHED LINES PROVIDED BY THE ENHANCEMENTS WILL ALWAYS BE 6 INCHES IN WIDTH.



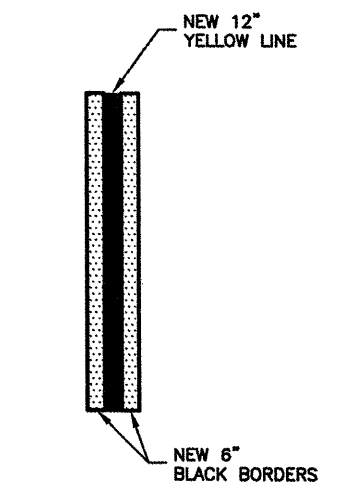
**TAXIWAY EDGE MARKING DASHED**

N.T.S.



**TAXIWAY EDGE MARKING CONTINUOUS**

N.T.S.



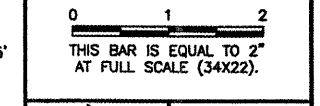
**TAXIWAY CENTERLINE CONTINUOUS**


N.T.S.

**MARKING NOTE**  
 ALL NEW AIRFIELD MARKING SHALL HAVE REFLECTIVE BEADS & 6" BLACK BORDER


CA007

REVISIONS		
NUMBER	BY	DATE

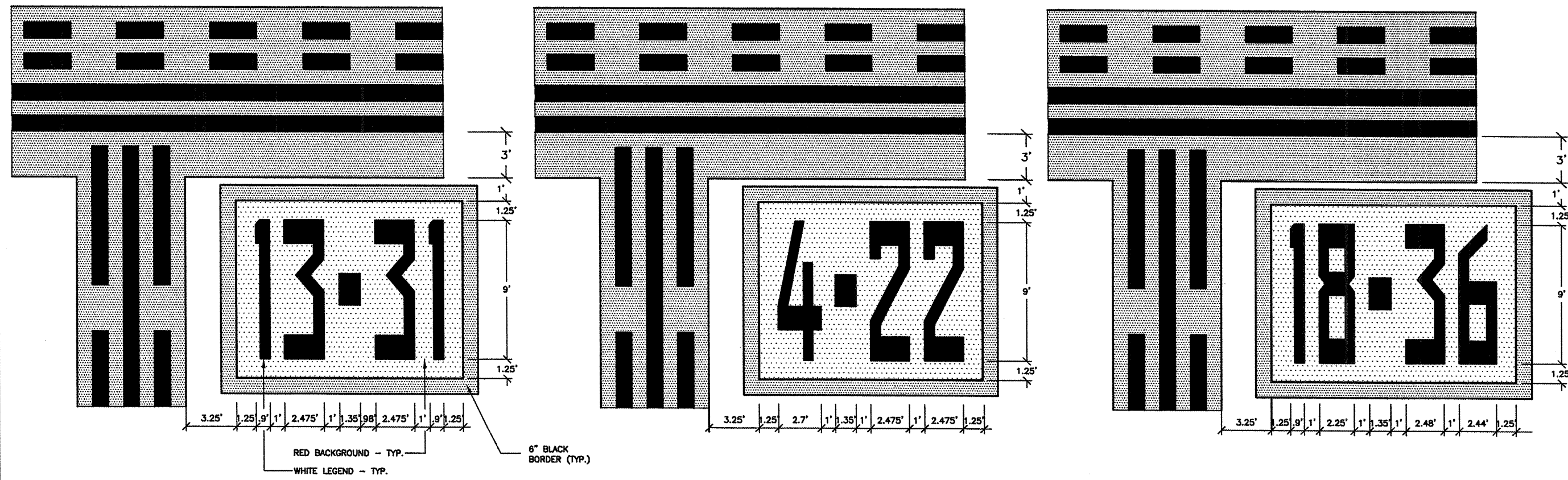


  
 SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY G - PHASE 2  
 MARKING DETAILS 2

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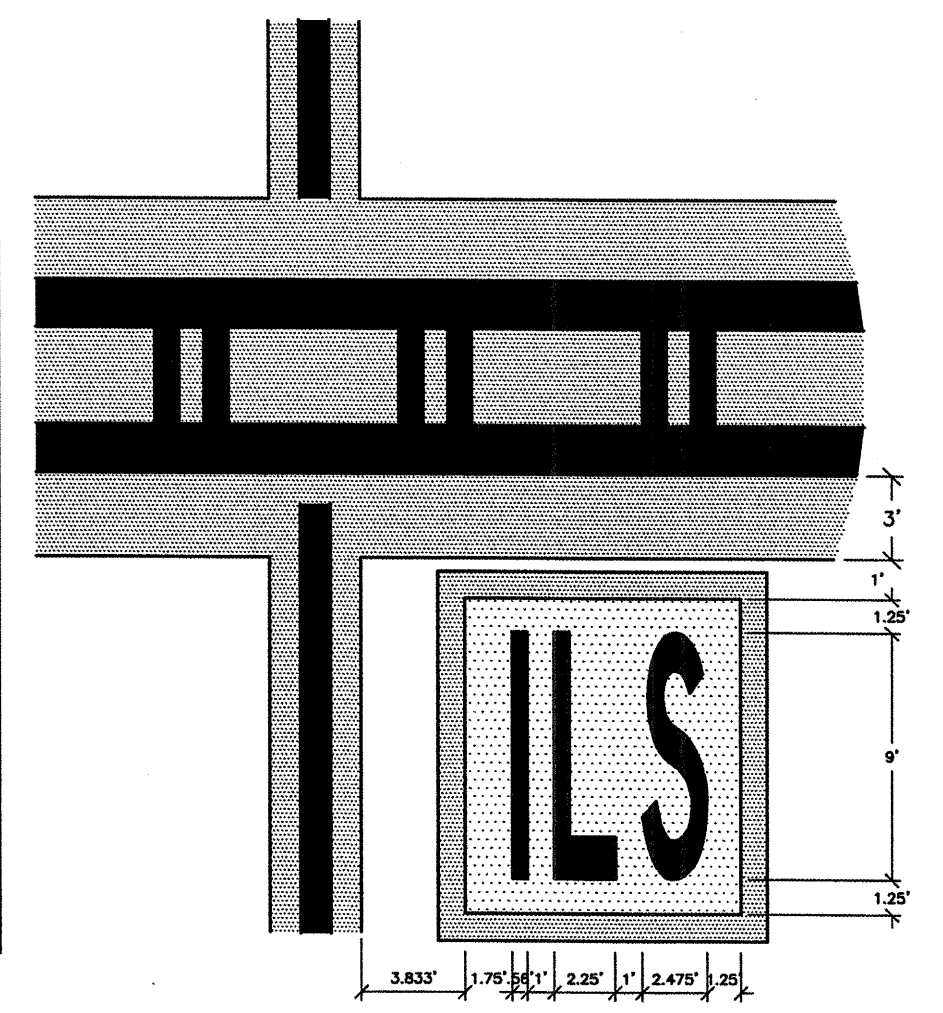
DESIGN BY: RLV  
 DRAWN BY: DPA  
 CHECKED BY: *RLV*  
 APPROVED BY: *RLV*  
 DATE: 01/30/2009  
 JOB No: 07035-09-00  
 IL PROJ. NO. SPI-3860  
 AIP PROJ. NO. 3-17-0096-XX  
 SHEET 44 OF 65 SHEETS



- MARKING NOTES**
- ALL NEW AIRFIELD MARKING SHALL HAVE REFLECTIVE BEADS & 6" BLACK BORDER.
  - EXISTING ENHANCED TAXIWAY CENTERLINE MARKING WILL NOT BE REMARKED.

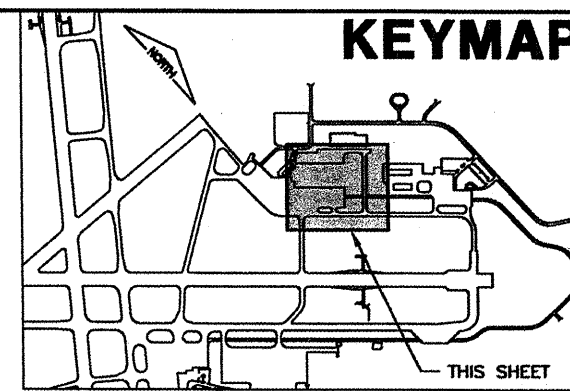
**MARKING SCHEDULE**

MARK #	MARKING LEGEND	TAXIWAY HOLDING SHORT	LOCATION ON TAXIWAY	WHITE LEGEND ON RED BACKGROUND WITH BLACK BORDER	NUMBER OF CHARACTERS	MARKING DIMENSION	RUNWAY HOLDING	NOTES
1	4	TAXIWAY A	BOTH SIDES OF TXY ☐	4	1	11.5'h x 5.20'w	RWY 4/22	NEW HOLD POSITION MARKING
2	4-22	TAXIWAY H	BOTH SIDES OF TXY ☐	4-22	4	11.5'h x 14.50'w	RWY 4/22	NEW HOLD POSITION MARKING
3	4-22	TAXIWAY E	BOTH SIDES OF TXY ☐	4-22	4	11.5'h x 14.50'w	RWY 4/22	NEW HOLD POSITION MARKING
4	22-4	TAXIWAY E	BOTH SIDES OF TXY ☐	22-4	4	11.5'h x 14.50'w	RWY 4/22	NEW HOLD POSITION MARKING
5	4-22	TAXIWAY F	BOTH SIDES OF TXY ☐	4-22	4	11.5'h x 14.50'w	RWY 4/22	NEW HOLD POSITION MARKING
6	22-4	TAXIWAY F	BOTH SIDES OF TXY ☐	22-4	4	11.5'h x 14.50'w	RWY 4/22	NEW HOLD POSITION MARKING
7	22	TAXIWAY A	BOTH SIDES OF TXY ☐	22	2	11.5'h x 14.50'w	RWY 4/22	NEW HOLD POSITION MARKING
8	ILS	TAXIWAY A	BOTH SIDES OF TXY ☐	ILS	3	11.5'h x 9.71'w	ILS - RWY 4/22	NEW ILS HOLD POSITION MARKING
9	13	TAXIWAY B	BOTH SIDES OF TXY ☐	13	2	11.5'h x 8.88'w	RWY 13/31	NEW HOLD POSITION MARKING
10	13-31	TAXIWAY K	BOTH SIDES OF TXY ☐	13-31	5	11.5'h x 14.60'w	RWY 13/31	NEW HOLD POSITION MARKING
11	13-31	TAXIWAY J	BOTH SIDES OF TXY ☐	13-31	5	11.5'h x 14.60'w	RWY 13/31	NEW HOLD POSITION MARKING
12	31	TAXIWAY B	BOTH SIDES OF TXY ☐	31	2	11.5'h x 14.60'w	RWY 13/31	NEW HOLD POSITION MARKING
13	31	TAXIWAY Y	BOTH SIDES OF TXY ☐	31	2	11.5'h x 8.88'w	RWY 13/31	NEW HOLD POSITION MARKING
14	ILS	TAXIWAY Y	BOTH SIDES OF TXY ☐	ILS	3	11.5'h x 9.71'w	ILS - RWY 13/31	NEW ILS HOLD POSITION MARKING
15	18	TAXIWAY E	BOTH SIDES OF TXY ☐	18	2	11.5'h x 8.65'w	RWY 18/36	NEW HOLD POSITION MARKING
16	18-36	TAXIWAY B	BOTH SIDES OF TXY ☐	18-36	5	11.5'h x 15.67'w	RWY 18/36	NEW HOLD POSITION MARKING
17	36-18	TAXIWAY B	BOTH SIDES OF TXY ☐	36-18	5	11.5'h x 15.67'w	RWY 18/36	NEW HOLD POSITION MARKING
18	36-18	TAXIWAY A	BOTH SIDES OF TXY ☐	36-18	5	11.5'h x 15.67'w	RWY 18/36	NEW HOLD POSITION MARKING
19	18-36	TAXIWAY A	BOTH SIDES OF TXY ☐	18-36	5	11.5'h x 15.67'w	RWY 18/36	NEW HOLD POSITION MARKING
20	36-18	TAXIWAY H	BOTH SIDES OF TXY ☐	36-18	5	11.5'h x 15.67'w	RWY 18/36	NEW HOLD POSITION MARKING
21	18-36	TAXIWAY H	BOTH SIDES OF TXY ☐	18-36	5	11.5'h x 15.67'w	RWY 18/36	NEW HOLD POSITION MARKING
22	36	TAXIWAY C	BOTH SIDES OF TXY ☐	36	2	11.5'h x 8.42'w	RWY 18/36	NEW HOLD POSITION MARKING
23	22-4	TAXIWAY B	BOTH SIDES OF TXY ☐	22-4	4	11.5'h x 14.50'w	RWY 4/22	REMOVE AND REPLACE HOLD MARKING LEFT OF TXY ☐ REMOVE HOLD MARKING RIGHT OF TXY ☐
24	4-22	TAXIWAY B	BOTH SIDES OF TXY ☐	4-22	4	11.5'h x 14.50'w	RWY 4/22	REMOVE AND REPLACE HOLD MARKING
25	31-13	TAXIWAY A	BOTH SIDES OF TXY ☐	31-13	5	11.5'h x 14.60'w	RWY 13/31	REMOVE AND REPLACE HOLD MARKING
26	13-31	TAXIWAY A	BOTH SIDES OF TXY ☐	13-31	5	11.5'h x 14.60'w	RWY 13/31	REMOVE AND REPLACE HOLD MARKING LEFT OF TXY ☐ REMOVE HOLD MARKING RIGHT OF TXY ☐
27	31-13	TAXIWAY C	BOTH SIDES OF TXY ☐	31-13	5	11.5'h x 14.60'w	RWY 13/31	REMOVE AND REPLACE HOLD MARKING LEFT OF TXY ☐ REMOVE HOLD MARKING RIGHT OF TXY ☐
28	13-31	TAXIWAY C	BOTH SIDES OF TXY ☐	13-31	5	11.5'h x 14.60'w	RWY 13/31	REMOVE AND REPLACE HOLD MARKING LEFT OF TXY ☐ REMOVE HOLD MARKING RIGHT OF TXY ☐



- LEGEND**
- EXISTING STAKE MOUNTED TAXIWAY LIGHT
  - ⊠ EXISTING BASE MOUNTED TAXIWAY LIGHT
  - ⊡ NEW BASE MOUNTED TAXIWAY LIGHT
  - ▭ EXISTING AIRFIELD SIGN
  - Ⓢ NEW AIRFIELD SIGN & NUMBER
  - ⊙ EXIST. SPLICE CAN
  - ⊙ NEW SPLICE CAN
  - ▬ EXISTING DUCT BANK
  - ▬ NEW DIRECTIONAL BORE
  - - - EXISTING CABLE
  - - - NEW CIRCUIT #5
  - ⊕ NEW COUNTERPOISE GROUND ROD

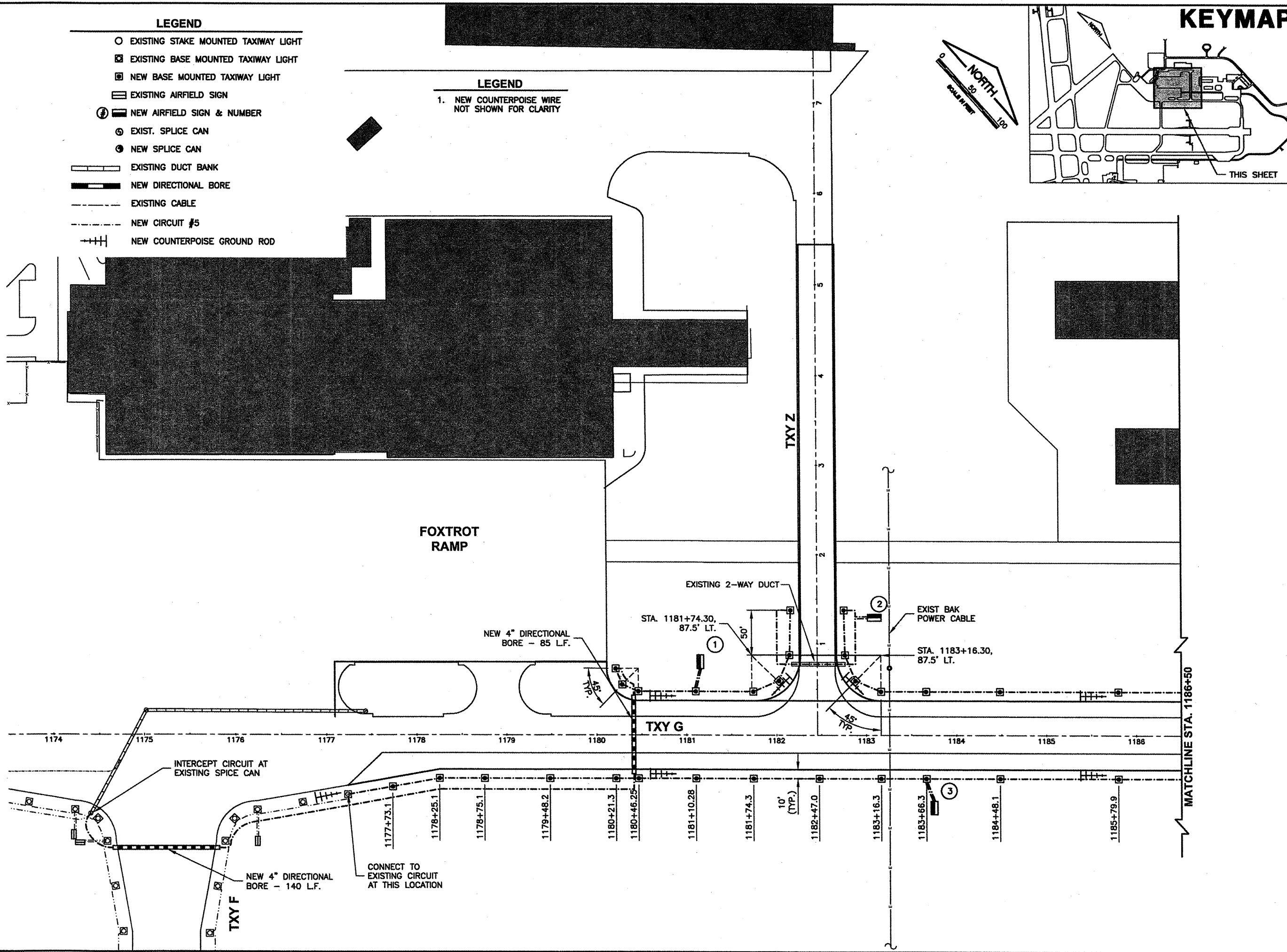
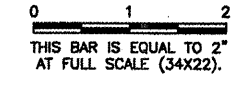
- LEGEND**
- 1. NEW COUNTERPOISE WIRE NOT SHOWN FOR CLARITY



K:\Springfield\0703509\Draw\Sheets\Phase 2 Full  
 FILE: ELEC01.dwg  
 UPDATE BY: Kristy Brod  
 PLOT DATE: 1/21/2009 11:05 AM  
 KEY  
 BASE\_EXISTOPO  
 BASE\_EXISTGEO  
 SPI-BASE  
 BASE\_PROPGEO  
 BASE\_PROPELEC

**CA007**

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NUMBER	BY	DATE



SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY G - PHASE 2  
 LIGHTING PLAN 1

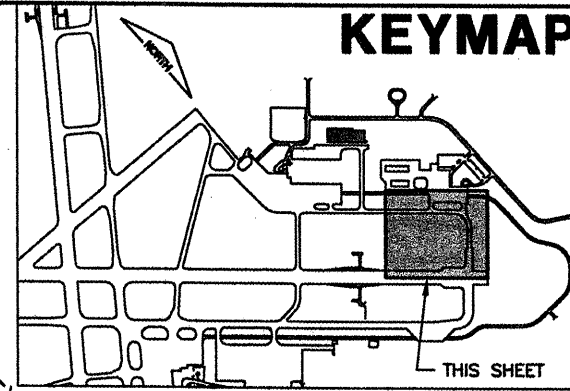
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DESIGN BY: CBG  
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 CHECKED BY: *REN*  
 APPROVED BY: *REN*  
 DATE: 01/30/2009  
 JOB No: 07035-09-00  
 IL PROJ. NO. SPI-3860  
 AIP PROJ. NO. 3-17-0096-XX  
 SHEET 45 OF 65 SHEETS

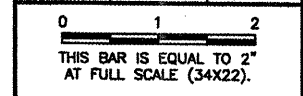
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 FILE: ELEC02.dwg  
 UPDATE BY: Kristy Brod  
 PLOT DATE: 1/26/2009 11:46 AM  
 KEY  
 BASE\_PROPGEO  
 BASE\_EXISTOPO  
 BASE\_EXISTGEO  
 BASE\_PROPELEC

# KEYMAP



CA007

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 SPRINGFIELD, ILLINOIS

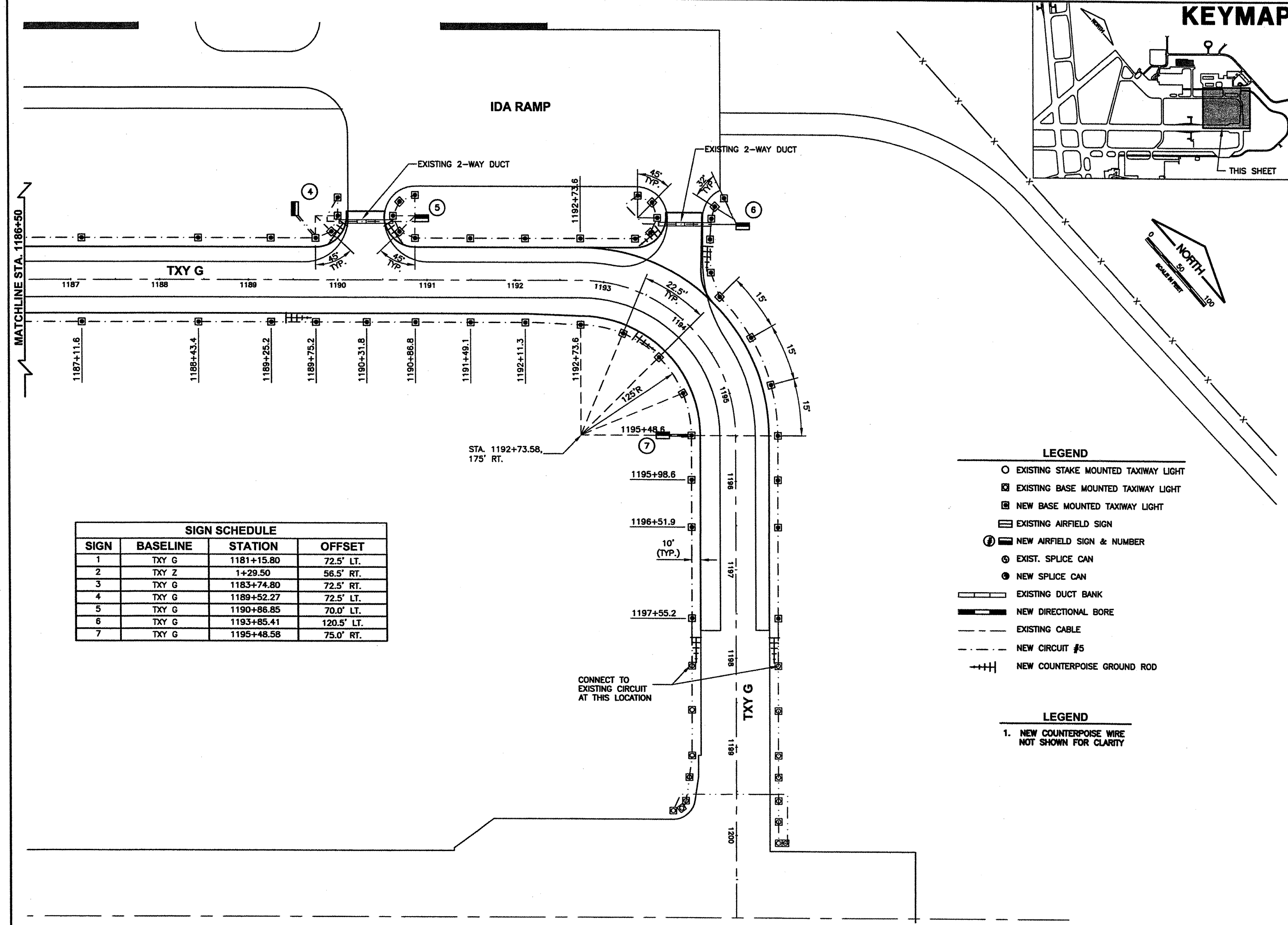
WIDEN TAXIWAY G - PHASE 2

LIGHTING PLAN 2

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DRAWN BY:	DPA
CHECKED BY:	RLV
APPROVED BY:	RLV
DATE:	01/30/2009
JOB No:	07035-09-00
IL PROJ. NO.	SPI-3860
AIP PROJ. NO.	3-17-0096-XX
SHEET 46 OF 65 SHEETS	



- LEGEND**
- EXISTING STAKE MOUNTED TAXIWAY LIGHT
  - ◻ EXISTING BASE MOUNTED TAXIWAY LIGHT
  - ◻ NEW BASE MOUNTED TAXIWAY LIGHT
  - ◻ EXISTING AIRFIELD SIGN
  - Ⓜ NEW AIRFIELD SIGN & NUMBER
  - Ⓞ EXIST. SPLICE CAN
  - NEW SPLICE CAN
  - ▬ EXISTING DUCT BANK
  - ▬ NEW DIRECTIONAL BORE
  - - - EXISTING CABLE
  - - - NEW CIRCUIT #5
  - ⊕ NEW COUNTERPOISE GROUND ROD

- LEGEND**
- 1. NEW COUNTERPOISE WIRE NOT SHOWN FOR CLARITY

**SIGN SCHEDULE**

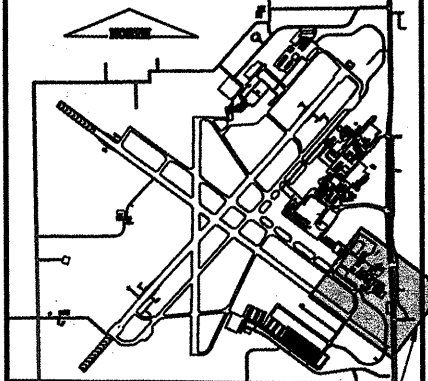
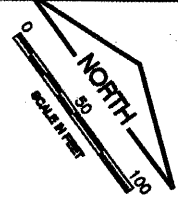
SIGN	BASELINE	STATION	OFFSET
1	TXY G	1181+15.80	72.5' LT.
2	TXY Z	1+29.50	56.5' RT.
3	TXY G	1183+74.80	72.5' RT.
4	TXY G	1189+52.27	72.5' LT.
5	TXY G	1190+86.85	70.0' LT.
6	TXY G	1193+85.41	120.5' LT.
7	TXY G	1195+48.58	75.0' RT.

CONNECT TO EXISTING CIRCUIT AT THIS LOCATION

RWY 13/31

- LEGEND**
- EXISTING STAKE MOUNTED TAXIWAY LIGHT
  - ⊠ EXISTING BASE MOUNTED TAXIWAY LIGHT
  - ⊡ NEW BASE MOUNTED TAXIWAY LIGHT
  - ▭ EXISTING AIRFIELD SIGN (SUCH PANELS TO BE PLACED)
  - Ⓜ NEW AIRFIELD SIGN & NUMBER
  - ⊕ EXIST. SPLICE CAN
  - NEW SPLICE CAN
  - EXISTING TAXIWAY REFLECTOR
  - ▬ EXISTING DUCT BANK
  - ▬ NEW DIRECTIONAL BORE
  - EXISTING CABLE
  - NEW CIRCUIT #5

- LEGEND**
1. COUNTERPOISE WILL NOT BE REQUIRED FOR LIGHT INSTALLATION IN THIS AREA.



KEYMAP

THIS SHEET

K:\Springfield\0703509\Draw\Sheets\Phase 2 Full  
 FILE: ELEC03.dwg  
 UPDATE BY: Kristy Brod  
 PLOT DATE: 1/21/2009 11:05 AM  
 KEY  
 BASE\_EXISTOPO  
 BASE\_EXISTGEO  
 SPI-BASE  
 BASE\_PROPGEO  
 BASE\_PROPELEC  
 KEYMAP

CA007

REVISIONS		
NUMBER	BY	DATE

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



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 SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY G - PHASE 2  
 LIGHTING PLAN 3

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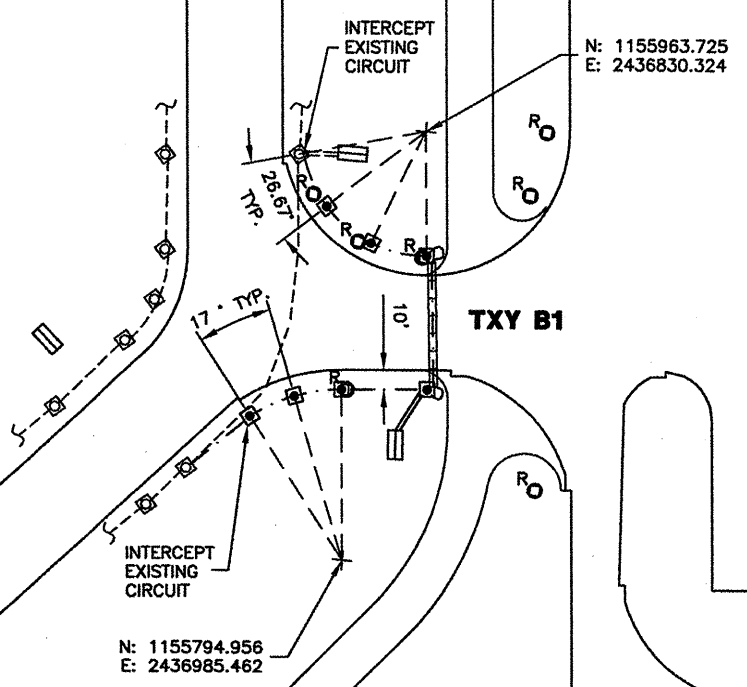
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DRAWN BY:	DPA
CHECKED BY:	RLV
APPROVED BY:	RLV
DATE:	01/30/2009
JOB No:	07035-09-00
IL PROJ. NO.	SPI-3860
AIP PROJ. NO.	3-17-0096-XX
SHEET 47 OF 65 SHEETS	

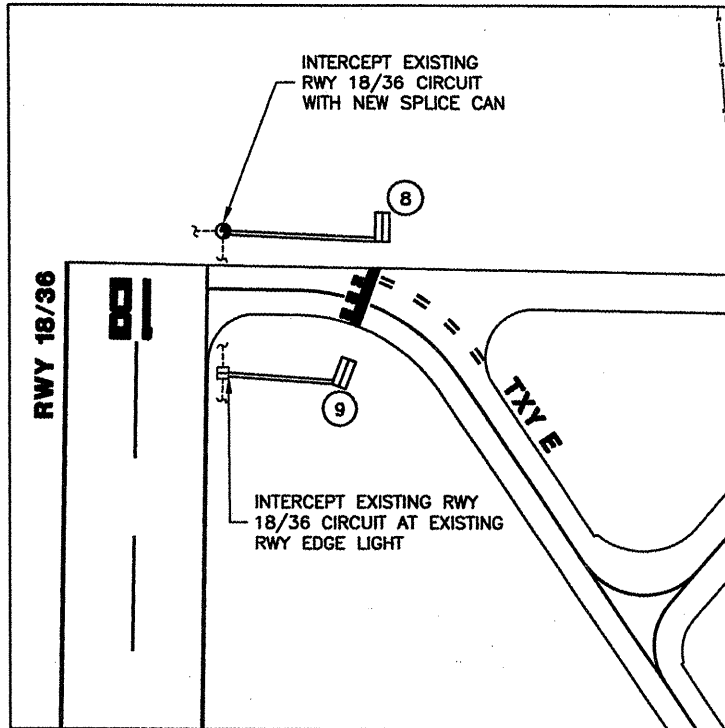
TXY. B

SOUTH PERIMETER RD.1

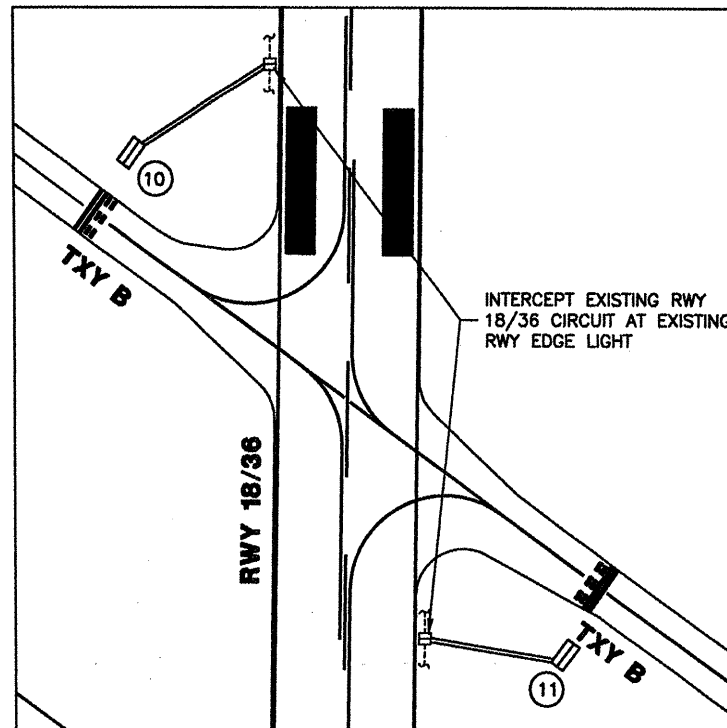
SOUTH PERIMETER RD.1

TXY B1

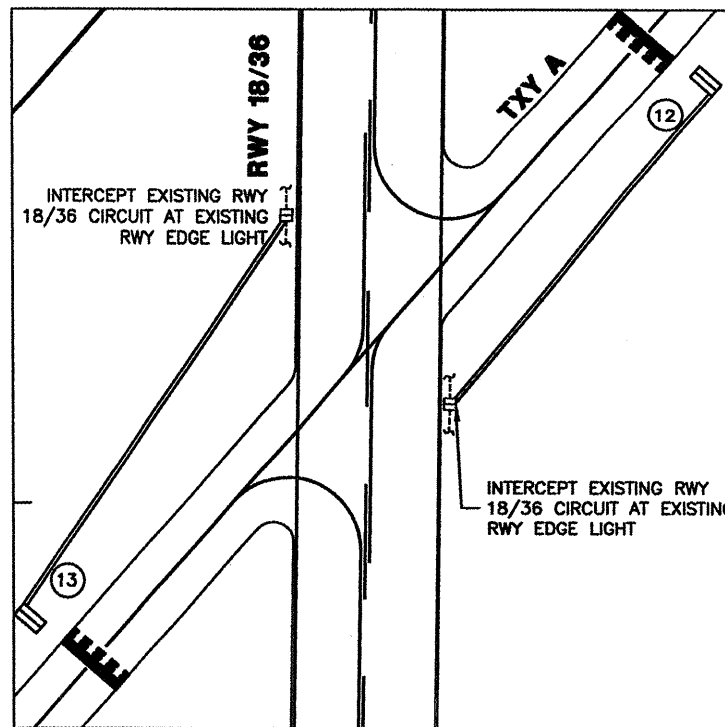




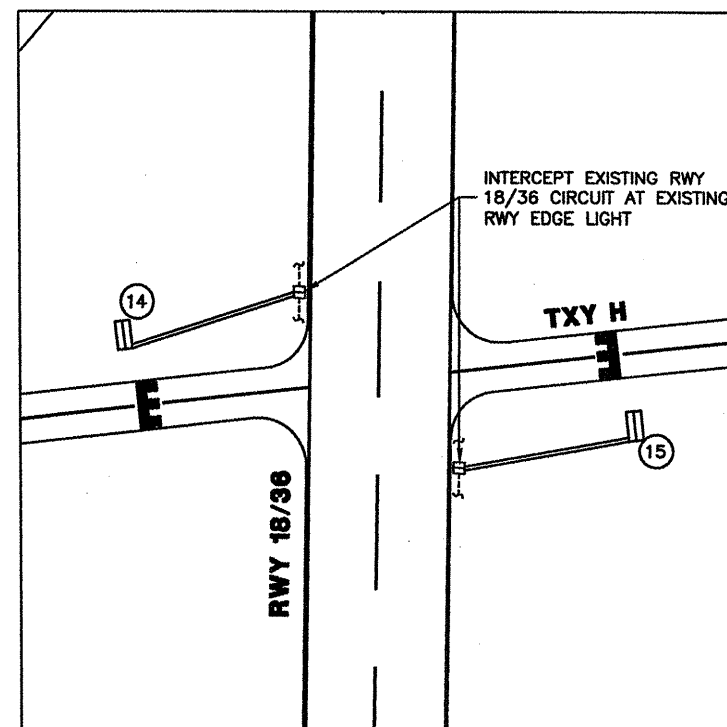
TXY E



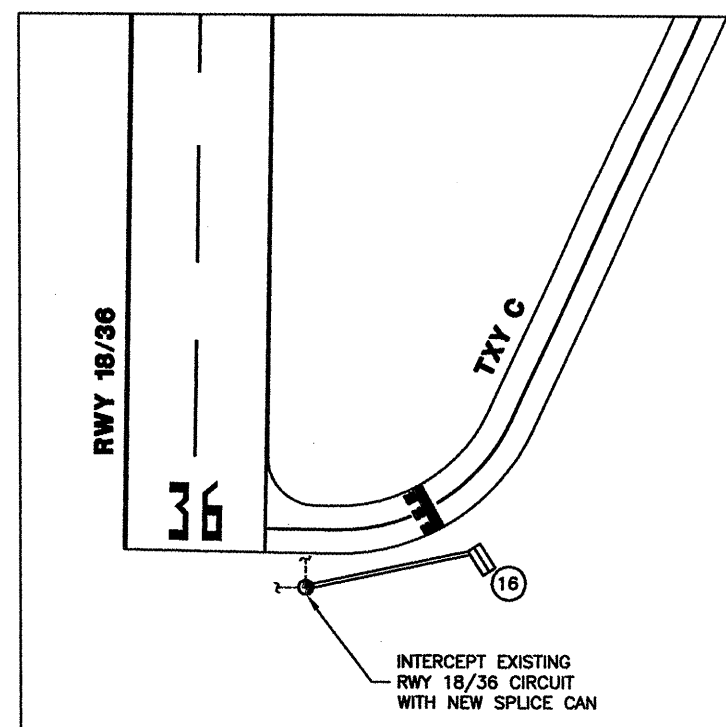
TXY B



TXY A



TXY H



TXY C

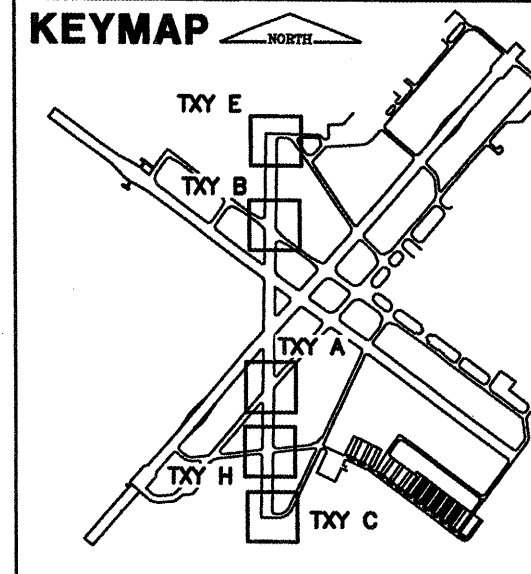
LEGEND

- ▣ EXISTING RUNWAY EDGE LIGHT
- ⊙ EXISTING IN-PAVEMENT LIGHT
- ⊙ EXISTING SPLICE CAN
- NEW SPLICE CAN
- ▬ EXISTING GUIDANCE SIGN
- EXISTING RUNWAY CIRCUIT
- NEW 1/C #8 5KV CABLE IN UNIT DUCT
- RS REPLACE GUIDANCE SIGN

NOTES:

1. EXISTING SIGNS ARE LUMACURVE SIGNS.
2. SEE SIGNAGE SCHEDULE ON "AIRFIELD SIGNAGE DETAILS" SHEET.
3. THE WORK ON THIS SHEET SHALL BE SCHEDULED WITH THE AIRPORT AS SHOWN IN THE CONSTRUCTION ACTIVITY PLAN.
4. CABLE USED TO CONNECT THE GUIDANCE SIGNS TO THE RUNWAY 18/36 CIRCUIT SHALL BE RECONNECTED TO THE NEAREST RUNWAY LIGHT OR SPLICE CAN.

KEYMAP



K:\Springfield\0703509\Draw\Sheets\Phase 2 Full  
 FILE: ELEC04.dwg  
 UPDATE BY: Kristy Brod  
 PLOT DATE: 1/23/2009 2:52 PM  
 BASE\_PROPGEO  
 SPI-LOGO  
 BASE\_EXISTMARK  
 BASE\_PROPELEC  
 SPI-LOGO

CA007

REVISIONS

NUMBER	BY	DATE

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



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 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY G - PHASE 2  
 LIGHTING PLAN 4

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 DRAWN BY: DPA  
 CHECKED BY: *RLV*  
 APPROVED BY: *RLV*  
 DATE: 01/30/2009  
 JOB No: 07035-09-00

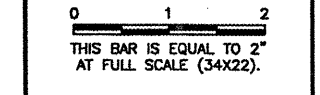
IL PROJ. NO. SPI-3860  
 AIP PROJ. NO. 3-17-0096-XX





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REVISIONS		
NUMBER	BY	DATE



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 SPRINGFIELD, ILLINOIS**

**WIDEN TAXIWAY G - PHASE 2  
 HOMERUN PLAN**

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DESIGN BY:	RLV
DRAWN BY:	CMT
CHECKED BY:	RLV
APPROVED BY:	RLV
DATE:	01/30/2009
JOB No:	07035-09-00
IL PROJ. NO.	SPI-3860
AIP PROJ. NO.	J-17-0096-XX
SHEET 49 OF 65 SHEETS	

ELECTRICAL MANHOLE LOCATIONS		
STRUCTURE	NORTHING	EASTING
MH-1	1159486.78	2434367.79
MH-2	1159151.49	2434073.06
MH-3	1159059.81	2433992.50
MH-4	1158954.99	2433606.93
MH-5	1158963.06	2433107.00
MH-6	1158755.73	2432954.89
MH-7	1158487.22	2432757.90



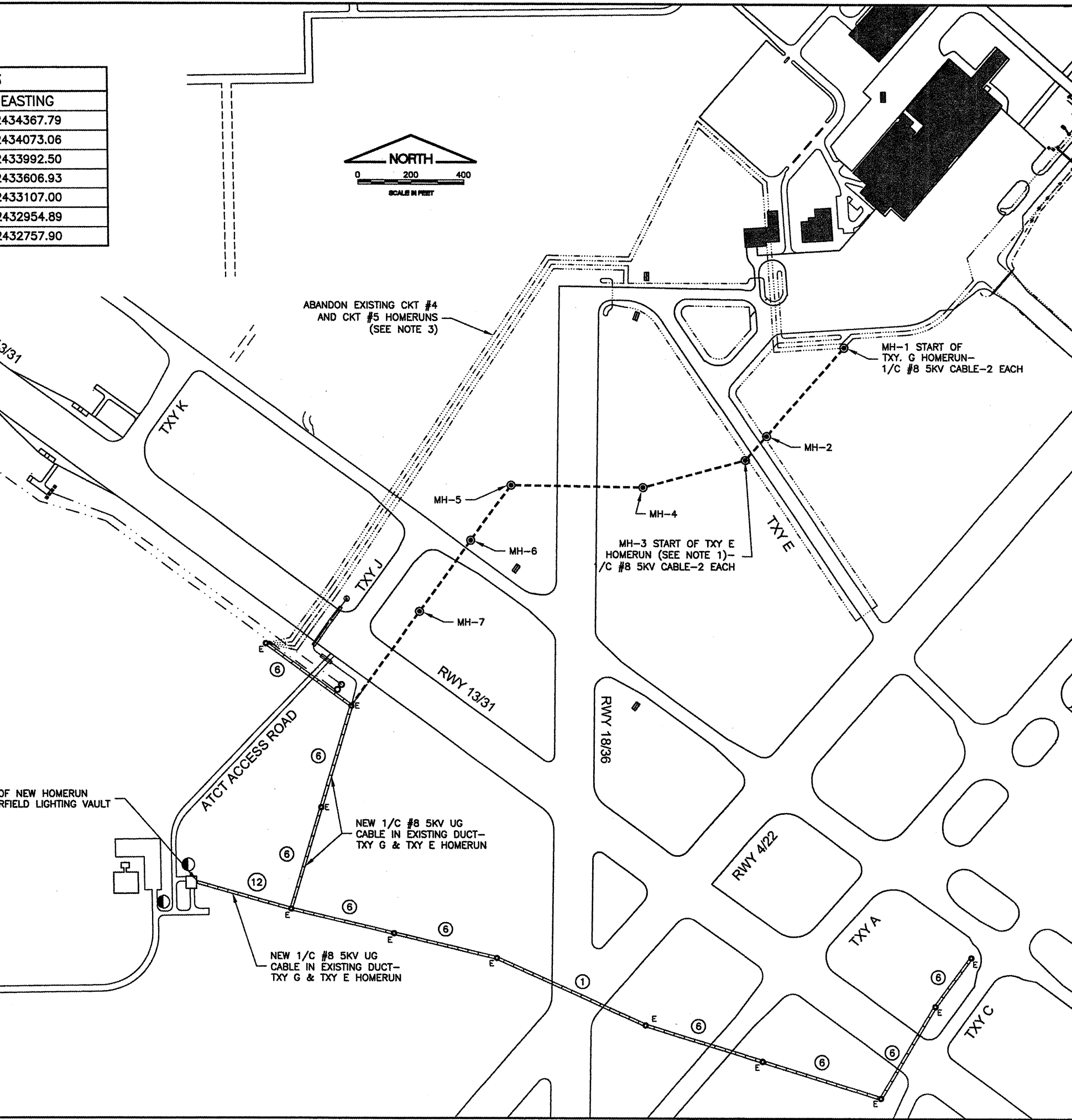
- NOTES:**
- CONTRACTOR SHALL TRENCH AND INSTALL TXY E HOMERUN CABLE TO THE NEAREST TAXIWAY E EDGE LIGHT.
  - CONTRACTOR SHALL REMOVE THE EXISTING CKT #4 AND CKT #5 HOMERUN FROM THE DUCT BANK. COST FOR THIS WORK SHALL BE INCIDENTAL.
  - AFTER LOCATING THE START OF THE TXY G AND TXY E HOMERUNS, THE CONTRACTOR SHALL MAKE CONNECTIONS TO THE EXISTING CIRCUIT TO REMOVE THE EXISTING HOMERUNS FROM THE CIRCUIT.
  - (B) IN-PAVEMENT DUCT MARKERS SHALL BE INSTALLED IN THIS WORK AREA.

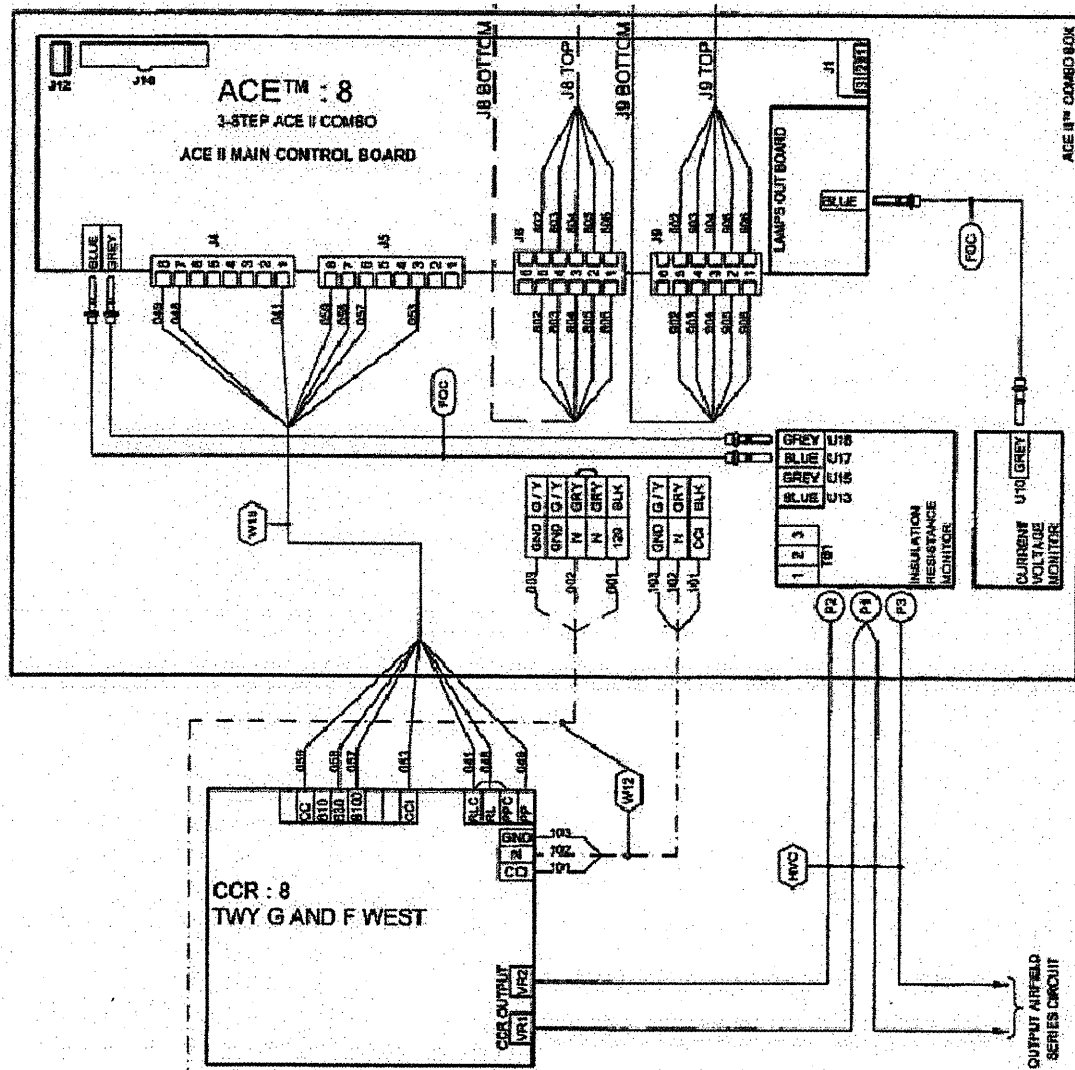
**LEGEND**

⊙E	EXISTING 4' x 4' x 4' ELEC. MANHOLE
⊙	PROPOSED 4' x 4' x 4' ELEC. MANHOLE
⊗	EXISTING DUCT BANK AND NUMBER WAY
---	EXISTING CIRCUIT #4 HOMERUN
---	EXISTING CIRCUIT #5 HOMERUN
---	NEW 4-2" DIRECTIONAL BORE WITH NEW TXY G AND TXY E HOMERUN CABLES

THE LOCATION OF UNDERGROUND UTILITIES AND SERVICES AS INDICATED ON THE PLANS HAS BEEN OBTAINED FROM EXISTING RECORDS. NEITHER THE OWNER, THE DIVISION, OR 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 OWNED BY THE AIRPORT, FAA, IL ANG, OR UTILITY COMPANIES, 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 CONTRACTORS OPERATIONS SHALL BE RESTORED IMMEDIATELY AT HIS EXPENSE TO THE SATISFACTION OF THE OWNER AND THE ENGINEER.





**NOTES:**

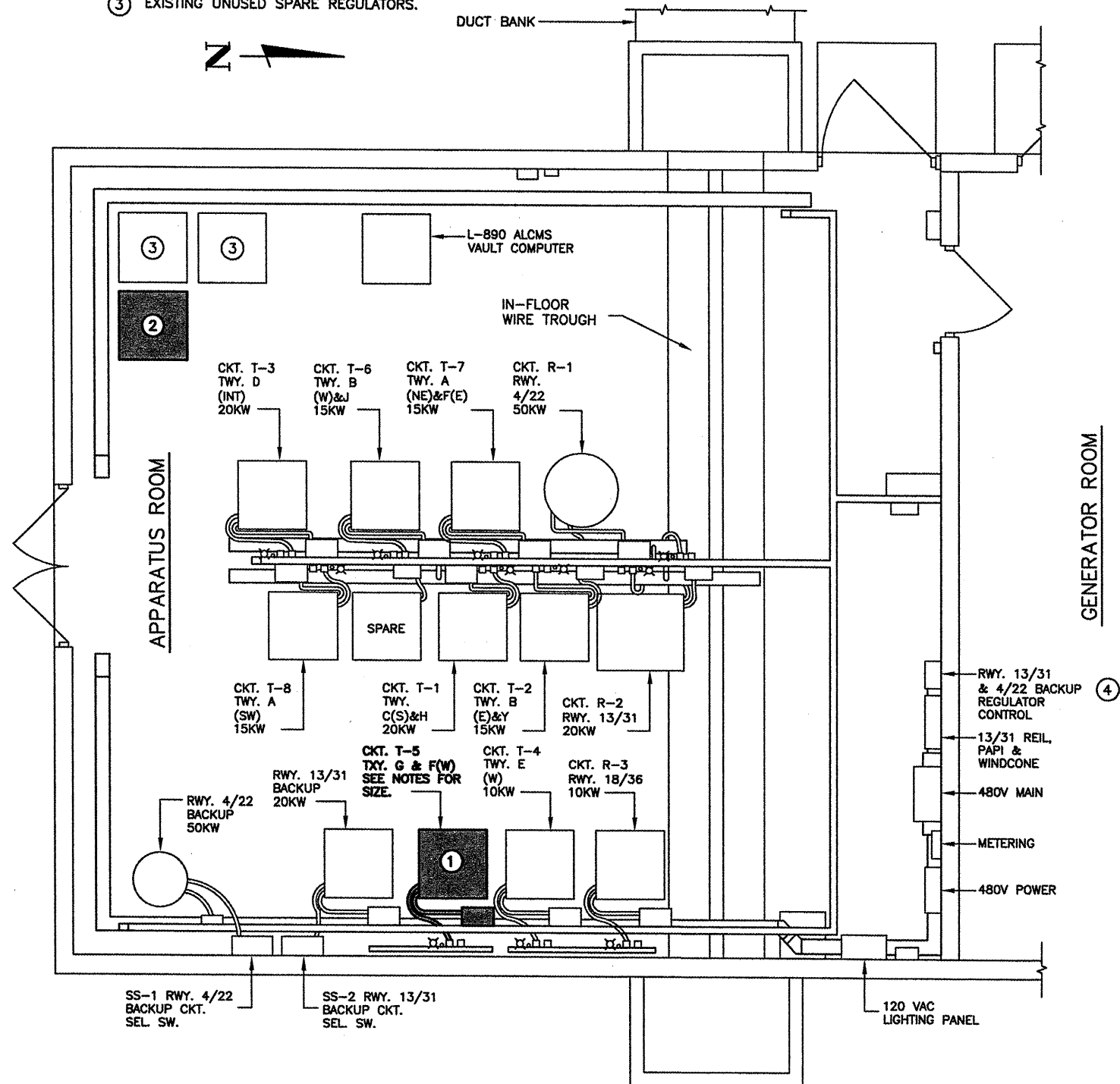
1. DETAIL SHOWN IS FOR INFORMATION ONLY TO ASSIST THE CONTRACTOR IN MAKING THE MODIFICATIONS SHOWN ON THE PLANS AND IN THE SPECIFICATIONS. THE INFORMATION PROVIDED IS BASED ON BEST-AVAILABLE RECORD DRAWINGS OF EXISTING CONDITIONS. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND WIRING PRIOR TO COMMENCING WORK.
2. ALL WIRING SHOWN, WHETHER SOLID OR DASHED IS EXISTING.

**EXISTING TAXIWAY G REGULATOR CONTROL AND SERIES CIRCUIT WIRING**  
N.T.S.

**NOTES**

1. NEW TXY G & F(W) REGULATOR, L-828, 15KW, 480V INPUT, 3-STEP, 6.6A OUTPUT. PROVIDE REGULATOR WITH ALL OPTIONS AND ACCESSORIES AS NEEDED TO CONNECT TO EXISTING SIEMENS "ACE" ALCMS CONTROL PANEL.  
  
INSTALL SQUARE D 480V, 50A, 3P PLUG-IN BUSWAY FEEDER CIRCUIT BREAKER IN EXISTING OVERHEAD BUSWAY (NOTE: ONLY TWO POLES WILL BE USED.) INSTALL TWO #8 THWN, ONE #8 GROUND IN 1" LIQUIDTIGHT FLEXIBLE CONDUIT FROM PLUG-IN CIRCUIT BREAKER TO REGULATOR. MATCH PHASING OF EXISTING CIRCUIT BREAKER.  
  
RECONNECT EXISTING SERIES CIRCUIT WIRING AND EXISTING CONTROL WIRING, PROVIDING NEW WIRING AND LIQUIDTIGHT FLEXIBLE CONDUIT AS REQUIRED.  
  
BOND REGULATOR TO EXISTING VAULT GROUND BUS WITH #6 AWG BARE COPPER WIRE.  
  
PROVIDE ENGRAVED LEGEND PLATE AS INDICATED IN SPECIFICATIONS, ITEM 109-2.21.

2. DISCONNECT EXISTING TXY G & F(W) REGULATOR AND PLUG-IN BUSWAY FEEDER CIRCUIT BREAKER AND RELOCATE TO HERE, OR AS DIRECTED BY OWNER.
3. EXISTING UNUSED SPARE REGULATORS.



**VAULT PLAN**  
1/4"=1'-0"

K:\Springfield\0703509\Draw\Sheets\Phase 2 Full  
FILE: VAULT IMPROVEMENTS.dwg  
UPDATE BY: Kristy Brod  
PLOT DATE: 1/23/2009 2:53 PM  
SPI-LOGO

**CA007**

**REVISIONS**

NUMBER	BY	DATE

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



**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, ILLINOIS**

**WIDEN TAXIWAY G - PHASE 2**  
**VAULT IMPROVEMENTS**

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DRAWN BY: CMT

CHECKED BY: *RLV*

APPROVED BY: *RLV*

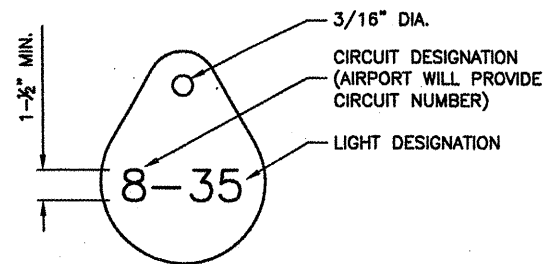
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JOB No: 07035-09-00

IL PROJ. NO. SPI-3860

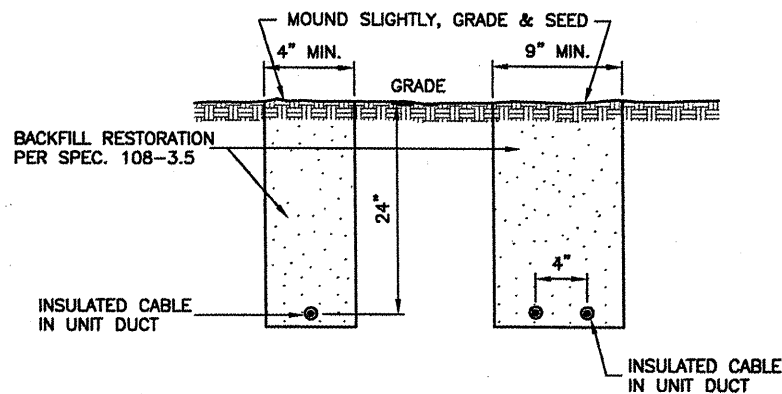
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SHEET 50 OF 65 SHEETS



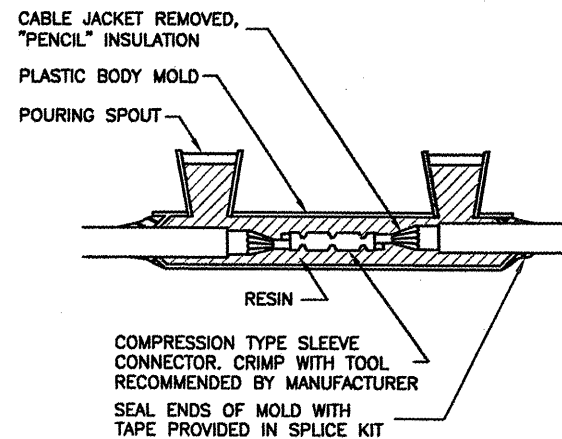
1. INSTALL A NONCORROSIVE DISC OF 2" MINIMUM DIAMETER WITH THE NUMBER PERMANENTLY STAMPED, CUT OUT, OR ENGRAVED UNDER THE HEAD OF THE BASE PLATE BOLT OR ATTACHED TO LIGHT FLANGE WITH SET SCREW.
2. LEGENDS SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY. CONTRACTOR TO COORDINATE LEGEND WITH AIRPORT.
3. THE CONTRACTOR 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.



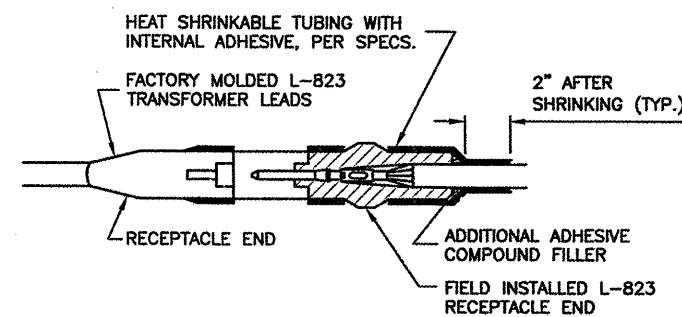
1. TRENCHES WITH MORE THAN 2 CABLES SHALL BE INCREASED 3" IN WIDTH FOR EACH ADDITIONAL CABLE. IF SPECIFIED ON PLANS, TWO PARALLEL TRENCHES MAY BE CONSTRUCTED.
2. DEPTH OF TRENCHES SHALL BE AS SHOWN ABOVE UNLESS OTHERWISE SPECIFIED ON THE PLANS.
3. SAND BACKFILL SHALL BE USED IF THE EXISTING SOIL DOES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

**TRENCH DETAIL**  
N.T.S.



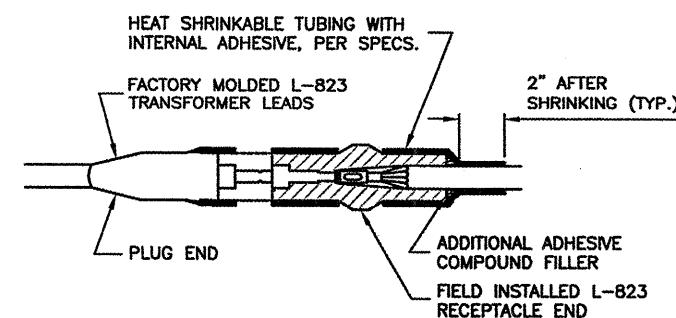
FOR IN-LINE CONNECTIONS OF EXISTING CABLES CUT DURING CONSTRUCTION.

**TYPE A**



FOR SPLICES AT TAXIWAY LIGHTS AND SIGNS.

**TYPE C**



FOR SPLICES AT TAXIWAY LIGHTS AND SIGNS.

**TYPE D**

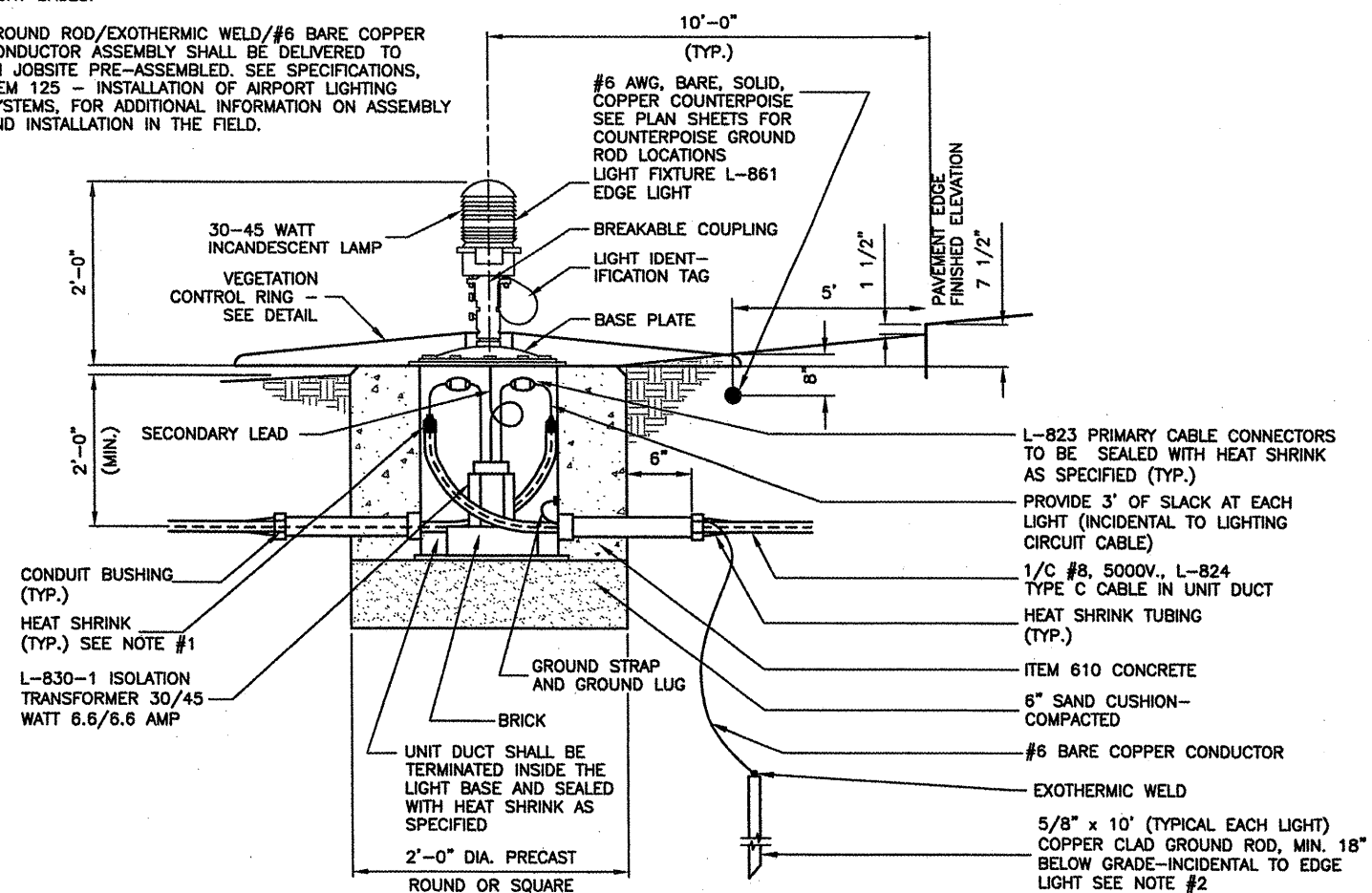
**CABLE SPLICES**  
N.T.S.

**CABLE SPLICE 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.

**NOTES:**

- 1.) SEE SPECIFICATIONS, ITEM 125 - INSTALLATION OF AIRPORT LIGHTING SYSTEMS, FOR ALTERNATE METHOD OF SEALING ENDS OF UNIT DUCTS INSIDE LIGHT BASES.
- 2.) GROUND ROD/EXOTHERMIC WELD/#6 BARE COPPER CONDUCTOR ASSEMBLY SHALL BE DELIVERED TO THE JOBSITE PRE-ASSEMBLED. SEE SPECIFICATIONS, ITEM 125 - INSTALLATION OF AIRPORT LIGHTING SYSTEMS, FOR ADDITIONAL INFORMATION ON ASSEMBLY AND INSTALLATION IN THE FIELD.



**BASE MOUNTED EDGE LIGHTS**  
N.T.S.

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NUMBER	BY	DATE

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



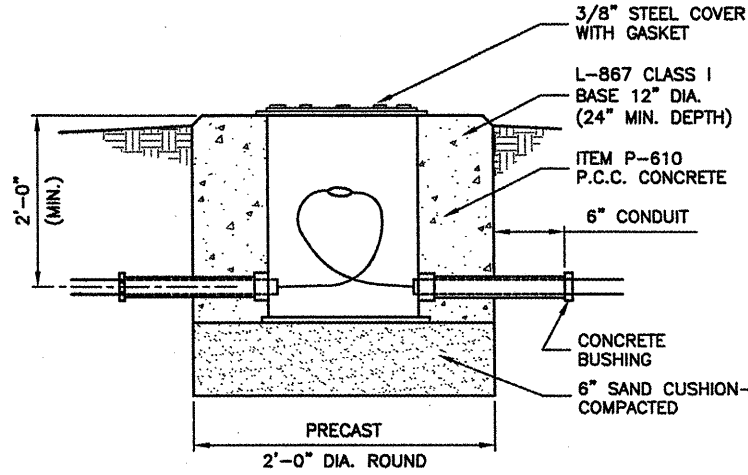
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ABRAHAM LINCOLN CAPITAL AIRPORT  
SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY G - PHASE 2  
ELECTRICAL DETAILS 1

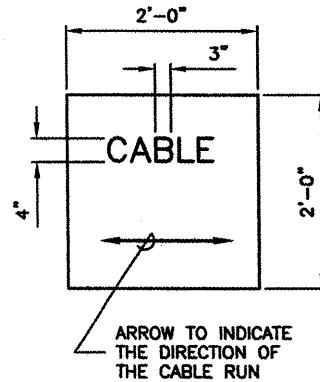
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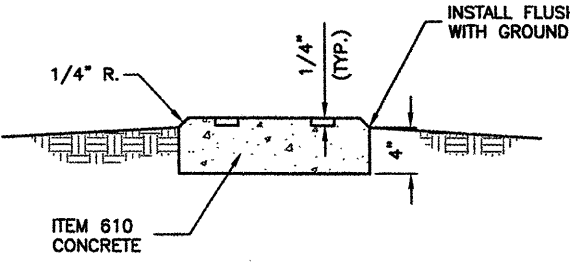
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DRAWN BY:	CMT
CHECKED BY:	REN
APPROVED BY:	REN
DATE:	01/30/2009
JOB No:	07035-09-00
IL PROJ. NO.	SPI-3860
AIP PROJ. NO.	3-17-0096-XX
SHEET	51 OF 65 SHEETS



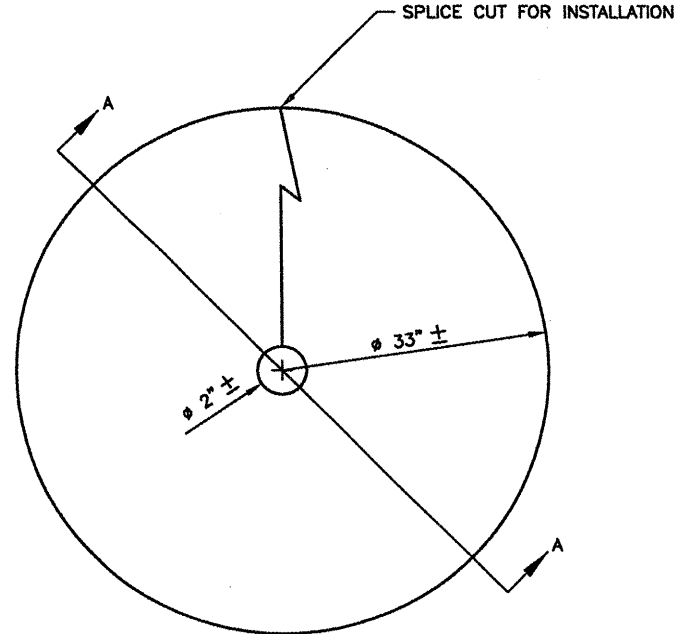
**SPlice CAN DETAIL**  
N.T.S.



- TURF CABLE / SPlice MARKER 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.

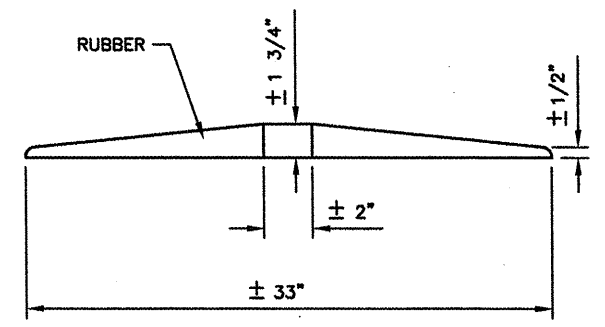


**TURF CABLE / SPlice MARKER DETAILS**  
N.T.S.

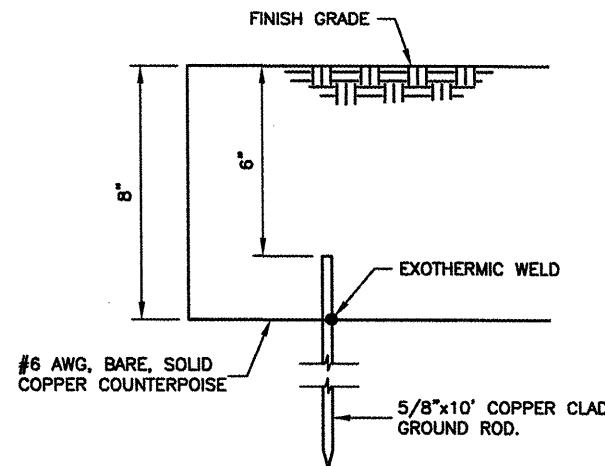


**PLAN VIEW**  
N.T.S.

**VEGETATION CONTROL RING DETAIL**  
N.T.S.



**SECTION A-A**  
N.T.S.

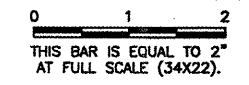


NOTE:  
GROUND RODS SHALL BE  
INSTALLED AT 500' INTERVALS

**COUNTERPOISE INSTALLATION**  
N.T.S.

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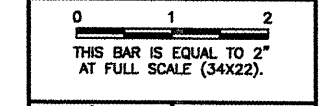
WIDEN TAXIWAY G - PHASE 2  
 ELECTRICAL DETAILS 2


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APPROVED BY:	RJN
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JOB No:	07035-09-00
IL PROJ. NO. SPI-3860	
AIP PROJ. NO. 3-17-0096-XX	
SHEET 52 OF 65 SHEETS	


**CA007**

REVISIONS		
NUMBER	BY	DATE

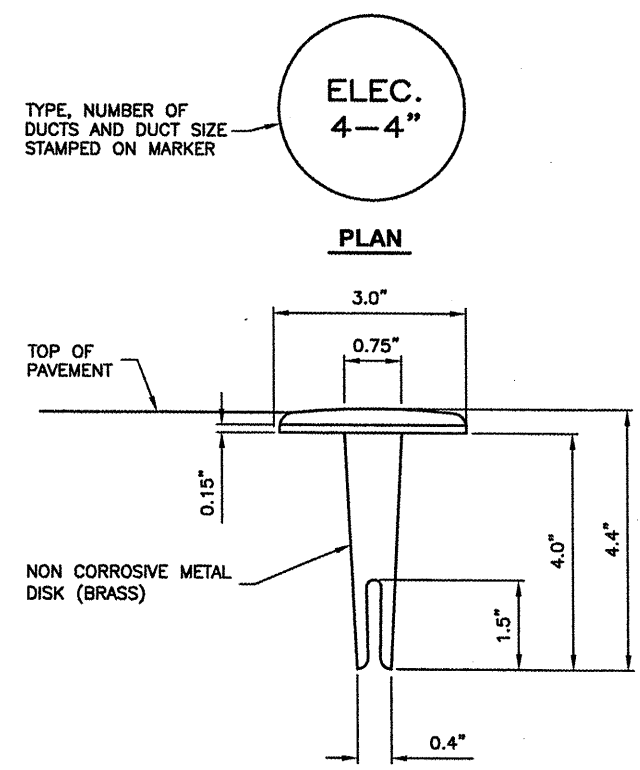


  
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**WIDEN TAXIWAY G - PHASE 2**  
**DUCT BANK DETAIL**

  
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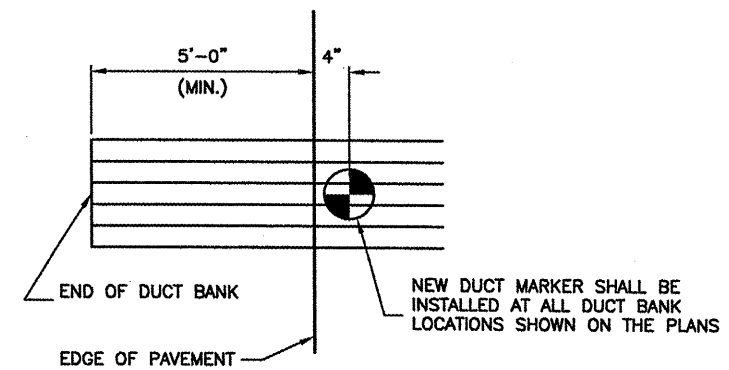
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JOB No:	07035-09-00



**PLAN**

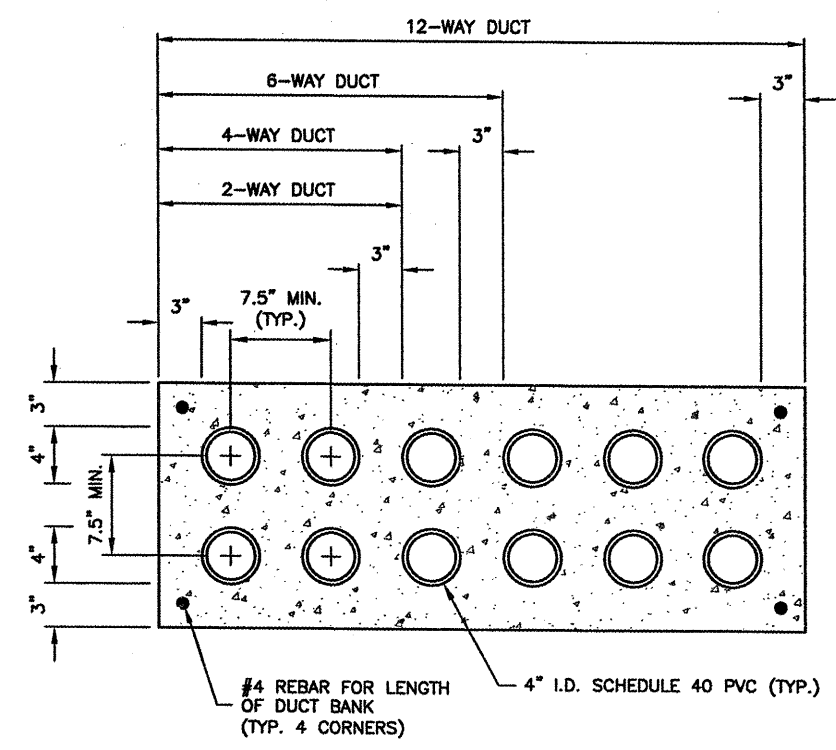
**SECTION**

**DUCT MARKER DETAILS**  
N.T.S.



**MARKER PLACEMENT**

DUCT MARKERS SHALL BE RECESSED AND GROUTED INTO THE PAVEMENTS.



**DUCT BANK DETAIL**  
N.T.S.

**DUCT BANK NOTES**

1. DIMENSIONS SHOWN ARE MINIMUM.
2. TOP OF CONCRETE ENCASEMENT TO BE NOT LESS THAN 18" BELOW FINISHED SUBGRADE.
3. DUCT CONCRETE SHALL BE ITEM 610 STRUCTURAL P.C.C. CONCRETE.
4. ALL DUCT SHALL BE 4" INSIDE DIAMETER.
5. LOCATIONS SHOWN ARE APPROXIMATE. DUCT BANKS SHALL BE INSTALLED AT LOCATIONS DESIGNATED BY THE ENGINEER.
6. CONTRACTOR SHALL INSTALL DUCT BANKS AT A DEPTH WHICH WILL NOT CONFLICT WITH ELEVATION SENSITIVE UTILITIES.
7. 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.
8. DUCT BANKS SHALL EXTEND A MINIMUM OF 5' BEYOND THE NEW EDGE OF PAVEMENT.

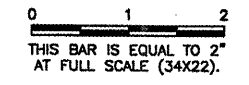
**SIGNAGE SCHEDULE**


SIGN #	SIDE	NEW SIGN LEGEND	WHITE WITH BLACK OUTLINE ON RED BACKGROUND	BLACK LEGEND ON YELLOW BACKGROUND	YELLOW LEGEND ON BLACK BACKGROUND	NUMBER OF CHARACTERS	NEW POWER CIRCUIT	NOTES
1	NE SW	G ← Z G		← Z	G G	3	TXY G	NEW SIGN
2	NW SE	Z ← G → Z		← G →	Z Z	4	TXY G	NEW SIGN
3	NE SW	G Z → G		Z →	G G	3	TXY G	NEW SIGN
4	NE SW	G ← IDA G		← IDA	G G	5	TXY G	NEW SIGN
5	NW	← G →		← G →		3	TXY G	NEW SIGN
6	NW	G ↑ G →		G ↑ G →		4	TXY G	NEW SIGN
7	NW SE	G 22 ↑ G IDA ↑		22 ↑ IDA ↑	G G	5	TXY G	NEW SIGN
8	E W	E 18 E	18	E	E E	3	RWY 18/36	NEW SIGN
9	E W	E 18 E	18	E	E E	3	RWY 18/36	NEW SIGN
10	NW SE	B 18-36 B	18-36	B	B B	6	RWY 18/36	NEW SIGN
11	NW SE	B 36-18 B	36-18	B	B B	6	RWY 18/36	NEW SIGN
12	NE SW	A 36-18 A	36-18	A	A A	6	RWY 18/36	NEW SIGN
13	NE SW	A 18-36 A	18-36	A	A A	6	RWY 18/36	NEW SIGN
14	W E	H 18-36 H	18-36	H	H H	6	RWY 18/36	NEW SIGN
15	W E	H 36-18 H	36-18	H	H H	6	RWY 18/36	NEW SIGN
16	NE SW	C 36 C	36	C	C C	3	RWY 18/36	NEW SIGN

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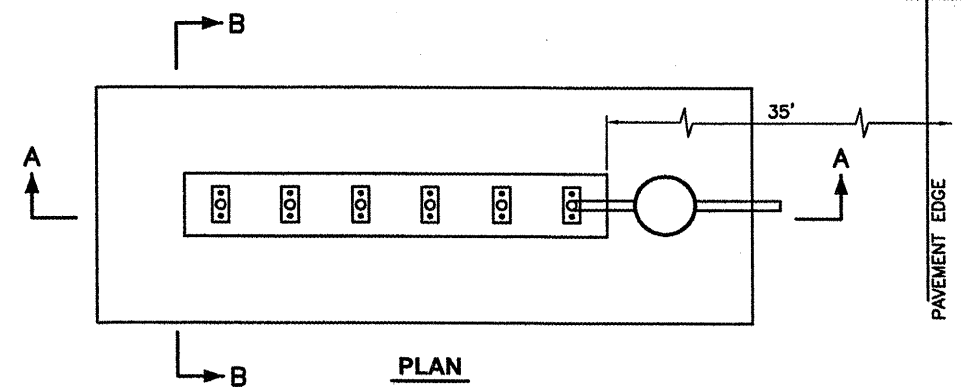
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NUMBER	BY	DATE



  
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 ABRAHAM LINCOLN CAPITAL AIRPORT  
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WIDEN TAXIWAY G - PHASE 2  
 AIRFIELD SIGNAGE DETAIL

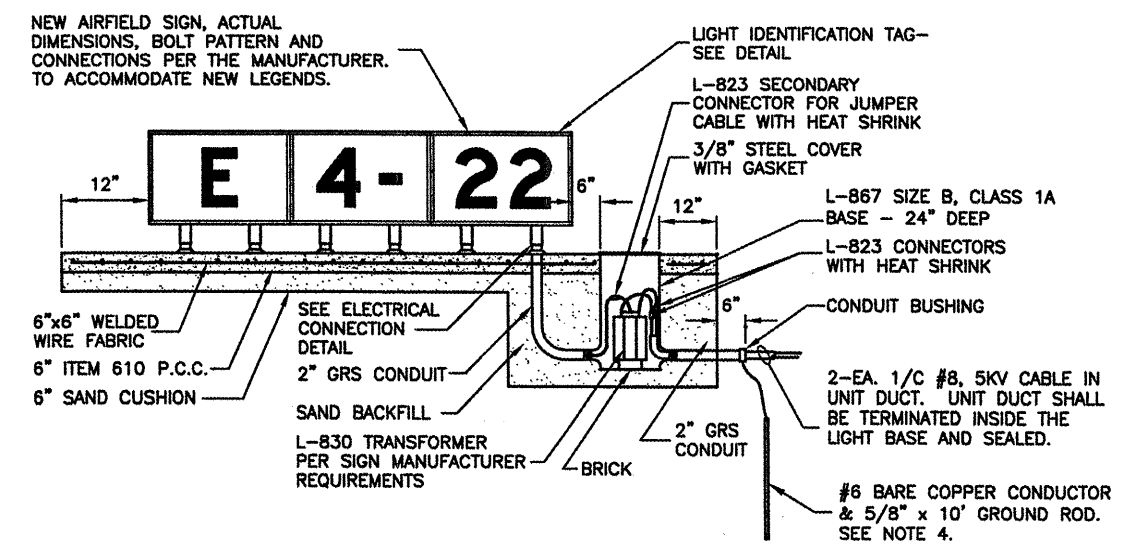


**AIRFIELD SIGN NOTES**

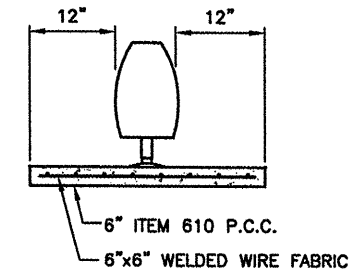
1. TRANSFORMER WATTAGE SHALL BE AS REQUIRED BY SIGN MANUFACTURER.
2. SIGN LEGEND SHALL BE AS SHOWN IN THE PLANS.
3. SIGNS SHALL BE SIZE 2, STYLE 2 OR 3, CLASS 2.
4. SEE "NEW BASE MOUNTED EDGE LIGHT" DETAIL FOR GROUNDING DETAILS.

**NOTES**

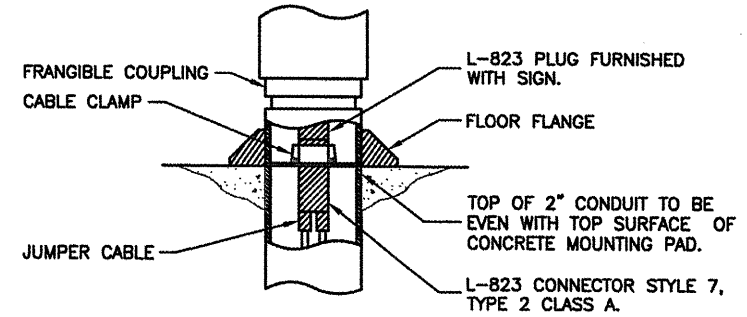
1. SIGN SCHEDULE IS SUBJECT TO FAA APPROVAL OF THE SIGNAGE PLAN.
2. CHANGES TO NEW LEGENDS MAY OCCUR SUBJECT TO 1 ABOVE.
3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH NEW LEGENDS FOR APPROVAL PRIOR TO STARTING MANUFACTURE.
4. EXISTING SIGNS ARE LUMACURVE.




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



**SECTION B-B**

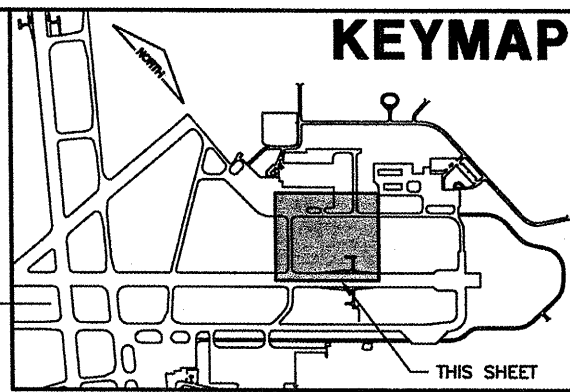
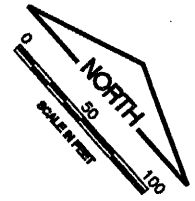


**ELECTRICAL CONNECTION DETAIL**  
N.T.S.

  
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 APPROVED BY: *REV*  
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 JOB No: 07035-09-00

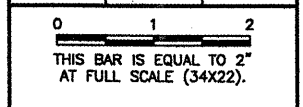
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 AIP PROJ. NO. 3-17-0096-XX  
 SHEET 54 OF 65 SHEETS




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 PLOT DATE: 1/23/2009 2:17 PM  
 BASE\_EXISTGEO  
 BASE\_EXISTTOPO  
 BASE\_PROPGEO  
 KEY  
 BASE\_PROPDRAIN  
 BASE\_PROPTURF


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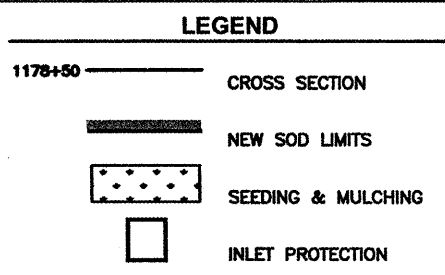
**WIDEN TAXIWAY G - PHASE 2**  
**INDEX TO CROSS SECTIONS - TURFING PLAN 1**

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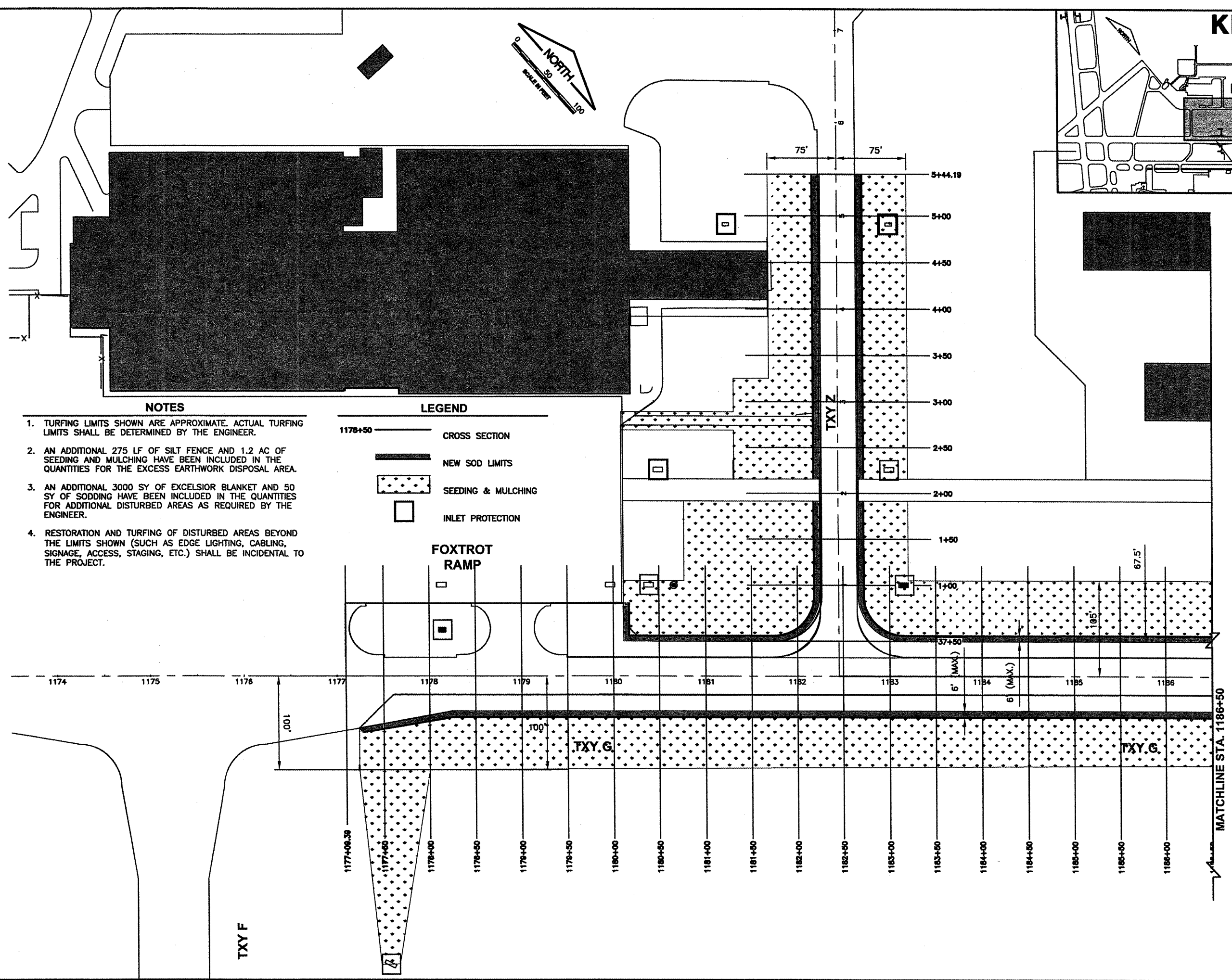
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 SHEET 55 OF 65 SHEETS

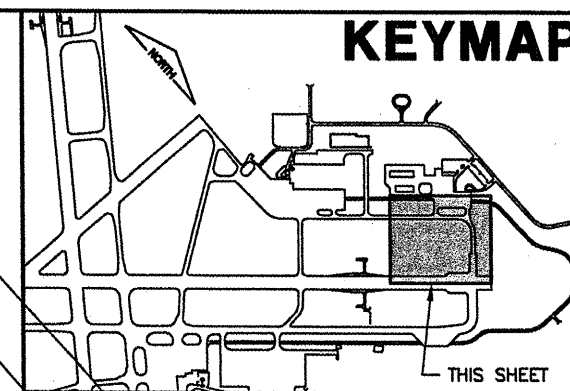
- NOTES**
- TURFING LIMITS SHOWN ARE APPROXIMATE. ACTUAL TURFING LIMITS SHALL BE DETERMINED BY THE ENGINEER.
  - AN ADDITIONAL 275 LF OF SILT FENCE AND 1.2 AC OF SEEDING AND MULCHING HAVE BEEN INCLUDED IN THE QUANTITIES FOR THE EXCESS EARTHWORK DISPOSAL AREA.
  - AN ADDITIONAL 3000 SY OF EXCELSIOR BLANKET AND 50 SY OF SODDING HAVE BEEN INCLUDED IN THE QUANTITIES FOR ADDITIONAL DISTURBED AREAS AS REQUIRED BY THE ENGINEER.
  - RESTORATION AND TURFING OF DISTURBED AREAS BEYOND THE LIMITS SHOWN (SUCH AS EDGE LIGHTING, CABLING, SIGNAGE, ACCESS, STAGING, ETC.) SHALL BE INCIDENTAL TO THE PROJECT.



**FOXTROT RAMP**



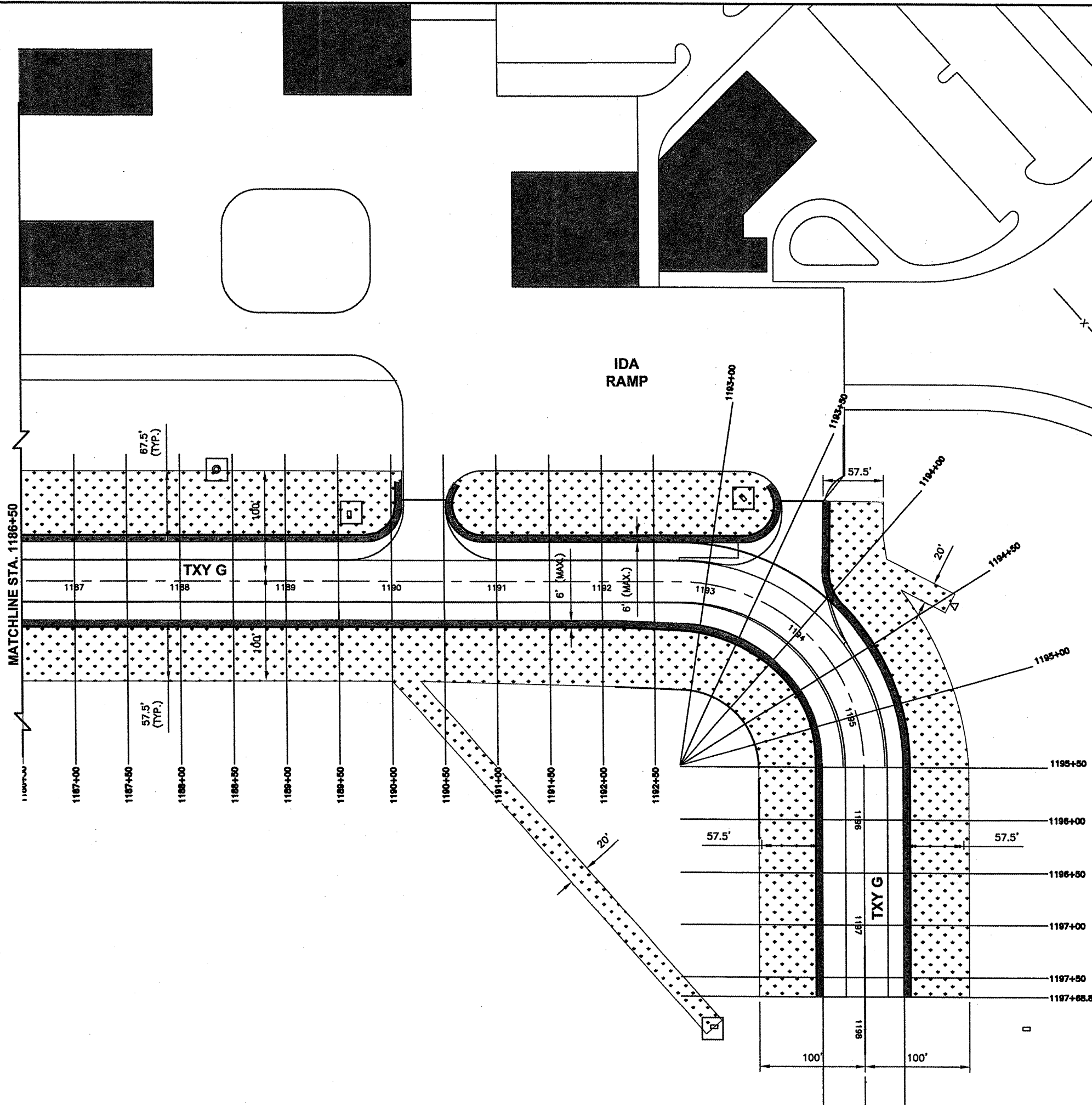
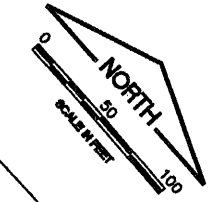
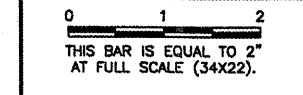
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 BASE\_EXISTOPO  
 BASE\_PROPGEO  
 BASE\_PROPTURF  
 KEY

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### LEGEND

- 1178+50 ——— CROSS SECTION
- NEW SOD LIMITS
- ▨ SEEDING & MULCHING
- INLET PROTECTION

### NOTES

- TURFING LIMITS SHOWN ARE APPROXIMATE. ACTUAL TURFING LIMITS SHALL BE DETERMINED BY THE ENGINEER.
- AN ADDITIONAL 275 LF OF SILT FENCE AND 1.2 AC OF SEEDING AND MULCHING HAVE BEEN INCLUDED IN THE QUANTITIES FOR THE EXCESS EARTHWORK DISPOSAL AREA.
- AN ADDITIONAL 3000 SY OF EXCELSIOR BLANKET AND 50 SY OF SODDING HAVE BEEN INCLUDED IN THE QUANTITIES FOR ADDITIONAL DISTURBED AREAS AS REQUIRED BY THE ENGINEER.
- RESTORATION AND TURFING OF DISTURBED AREAS BEYOND THE LIMITS SHOWN (SUCH AS EDGE LIGHTING, CABLING, SIGNAGE, ACCESS, STAGING, ETC.) SHALL BE INCIDENTAL TO THE PROJECT.

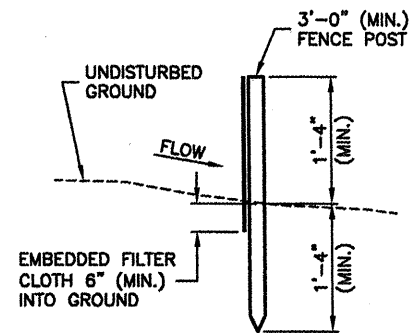
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WIDEN TAXIWAY G - PHASE 2  
 INDEX TO CROSS SECTIONS - TURFING PLAN 2

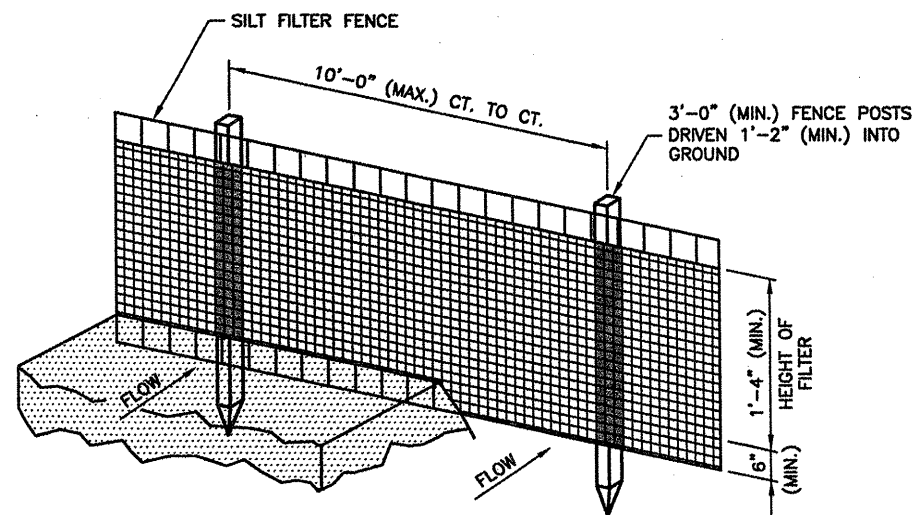
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DATE:	01/30/2009
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IL PROJ. NO. SPI-3860 AIP PROJ. NO. 3-17-0096-XX	
SHEET 56 OF 65 SHEETS	





**SECTION**



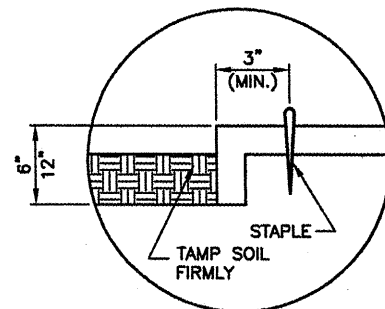
**PERSPECTIVE VIEW**

**EROSION CONTROL FABRIC FENCE DETAILS**

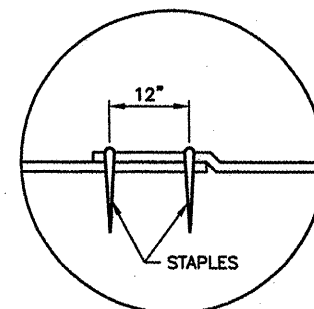
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**EROSION CONTROL FABRIC FENCE NOTES**

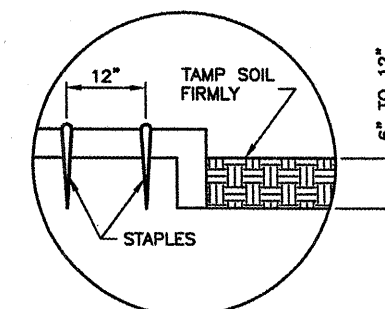
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 2'-0" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" MINIMUM AND FOLDED.
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.



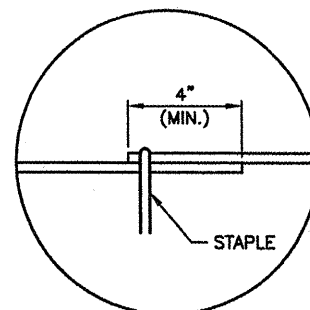
**DETAIL 1 - TERMINAL FOLD**



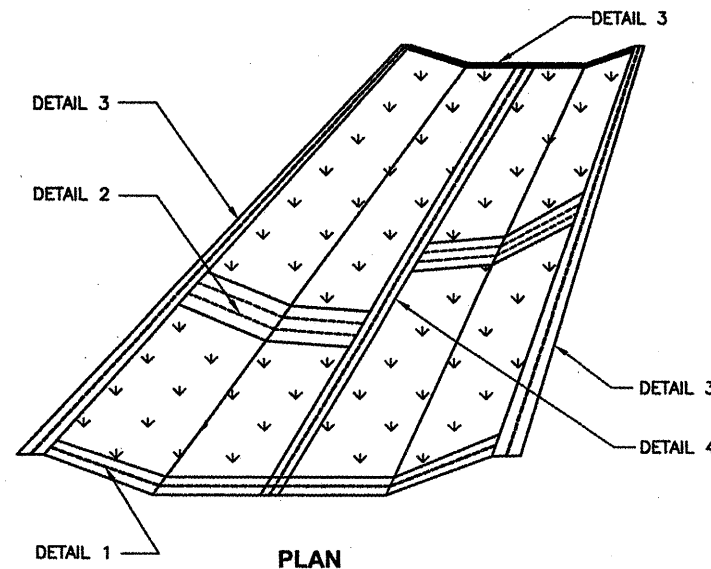
**DETAIL 2 - JUNCTION SLOT**



**DETAIL 3 - ANCHOR SLOT**



**DETAIL 4 - LAP JOINT**



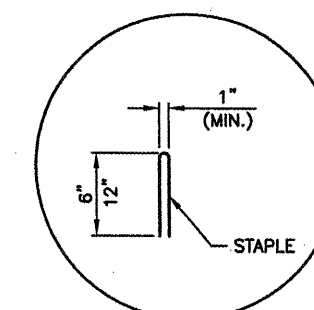
**PLAN**

**EXCELSIOR BLANKET DETAILS**

N.T.S.

**EXCELSIOR BLANKET NOTES**

1. STAPLES TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART.
2. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
3. ALL TERMINALS ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.



**DETAIL 5 - STAPLE DETAIL**

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FILE: EROSDETL.dwg  
UPDATE BY: Kristy Brod  
PLOT DATE: 1/21/2009 11:07 AM

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



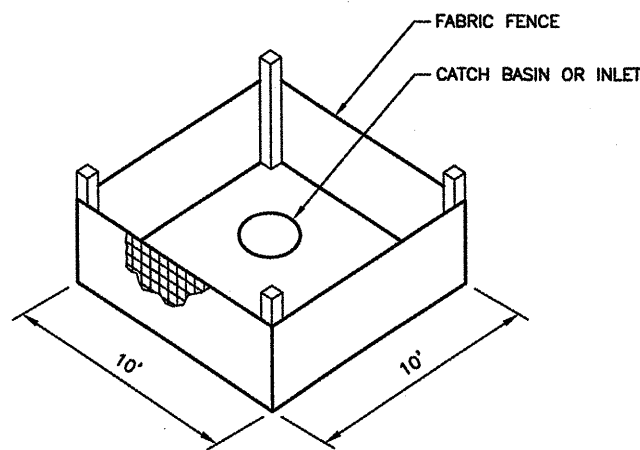
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SPRINGFIELD, ILLINOIS

WIDEN TAXIWAY G - PHASE 2

EROSION CONTROL DETAILS

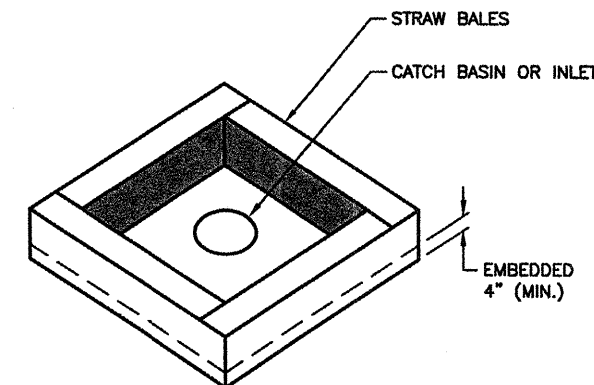
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IL PROJ. NO.	SPI-3860
AIP PROJ. NO.	3-17-0096-XX
SHEET	57 OF 65 SHEETS



**INLET PROTECTION WITH FABRIC**

N.T.S.

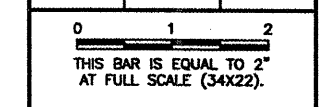



**INLET PROTECTION WITH STRAW BALES**

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**WIDEN TAXIWAY G - PHASE 2**

**EARTHWORK SUMMARY**

**EARTHWORK SUMMARY**

STATION	EXCAVATE END AREA (S.F.)	EMBANK END AREA (S.F.)
---------	--------------------------------	------------------------------

TAXIWAY G WIDENING		
1177+09.39	27.77	0.00
1177+50	129.80	0.00
1178+00	131.32	0.00
1178+50	136.50	0.00
1179+00	50.35	0.00
1179+50	135.87	0.00
1180+00	111.05	0.00
1180+50	86.56	0.00
1181+00	88.64	1.95
1181+50	94.23	1.99
1182+00	55.66	0.02
1182+50	49.44	0.00
1183+00	71.97	0.00
1183+50	100.40	0.00
1184+00	91.04	0.00
1184+50	96.95	2.65
1185+00	98.53	1.47
1185+50	99.32	0.62
1186+00	85.59	1.04
1186+50	84.12	1.23
1187+00	96.44	0.57
1187+50	95.99	0.59
1188+00	72.19	0.44
1188+50	58.56	10.15
1189+00	48.30	10.49
1189+50	48.21	16.60
1190+00	46.61	21.89
1190+50	48.82	26.34
1191+00	53.45	25.88

**EARTHWORK SUMMARY**


STATION	EXCAVATE END AREA (S.F.)	EMBANK END AREA (S.F.)
---------	--------------------------------	------------------------------

1191+50	57.90	20.42
1192+00	58.40	11.51
1192+50	67.00	4.28
1193+00	70.45	3.85
1193+50	55.47	1.94
1194+00	79.66	0.42
1194+50	71.08	1.20
1195+00	57.06	17.53
1195+50	63.78	25.62
1196+00	54.85	8.74
1196+50	50.58	19.59
1197+00	53.32	6.16
1197+50	66.45	6.42
1197+68.85	68.43	7.49

TAXIWAY Z REHAB		
0+37.5	141.26	0.00
0+50	115.18	0.00
1+00	24.58	0.49
1+50	78.40	1.43
2+00	0.00	0.00
2+50	0.00	4.06
3+00	10.74	9.23
3+50	5.47	14.04
4+00	1.06	16.12
4+50	1.93	14.13
5+00	9.22	8.70
5+44.19	26.00	4.08

**NOTES**

- CROSS SECTIONS 1183+50 TO 1188+00 REFLECT EARTHWORK CALCULATIONS BEYOND THE GRADING LIMITS SHOWN IN THE CROSS SECTIONS.



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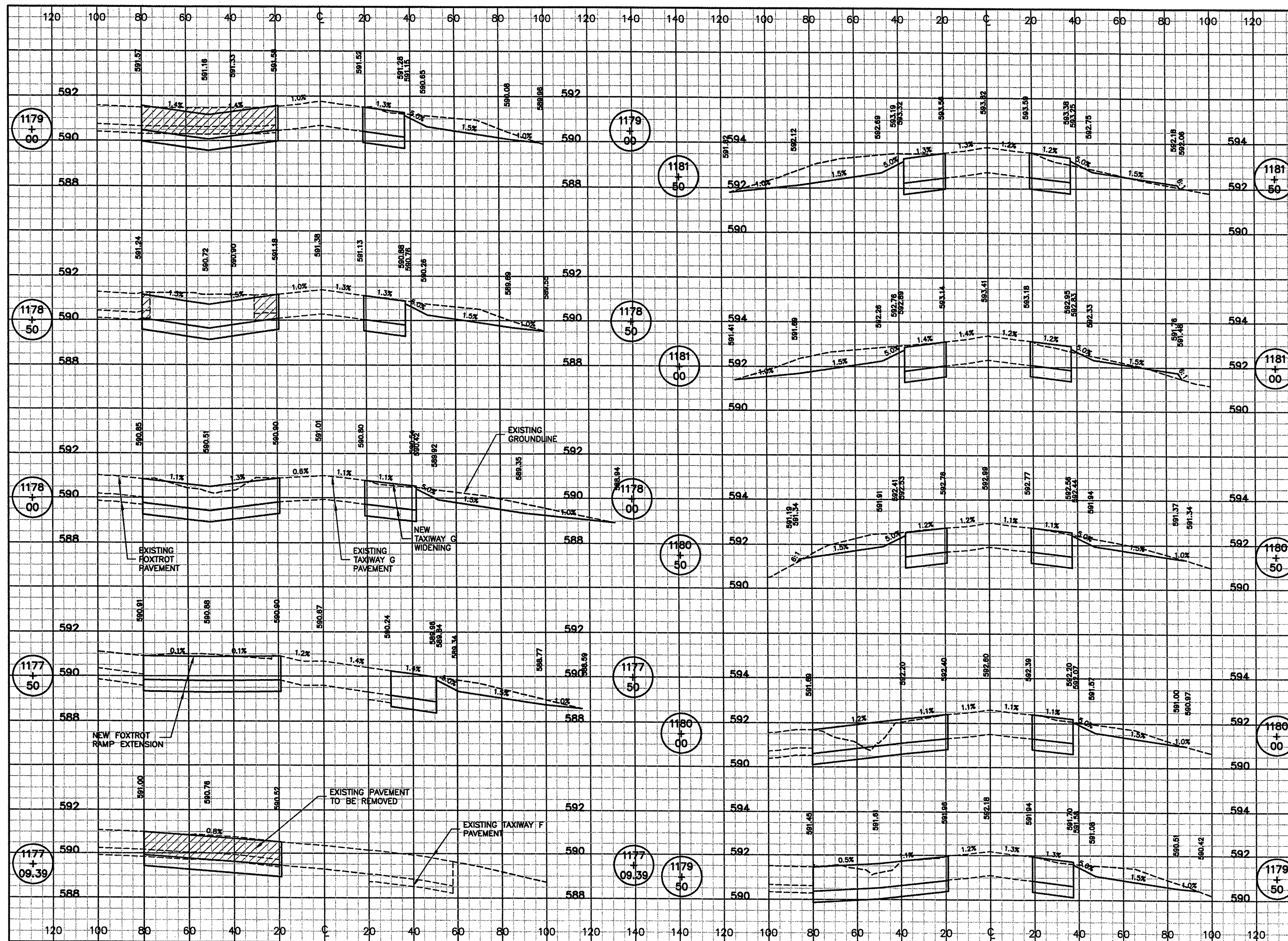
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JOB No: 07035-09-00

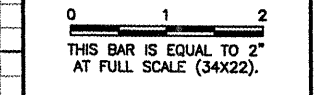
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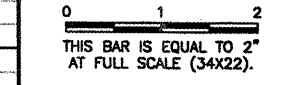
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**TAXIWAY G CROSS SECTIONS 1**  
**STA. 1177+09.39 TO STA. 1181+50**

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WIDEN TAXIWAY G - PHASE 2

TAXIWAY G CROSS SECTIONS 2  
 STA. 1182+00 TO STA. 1186+50

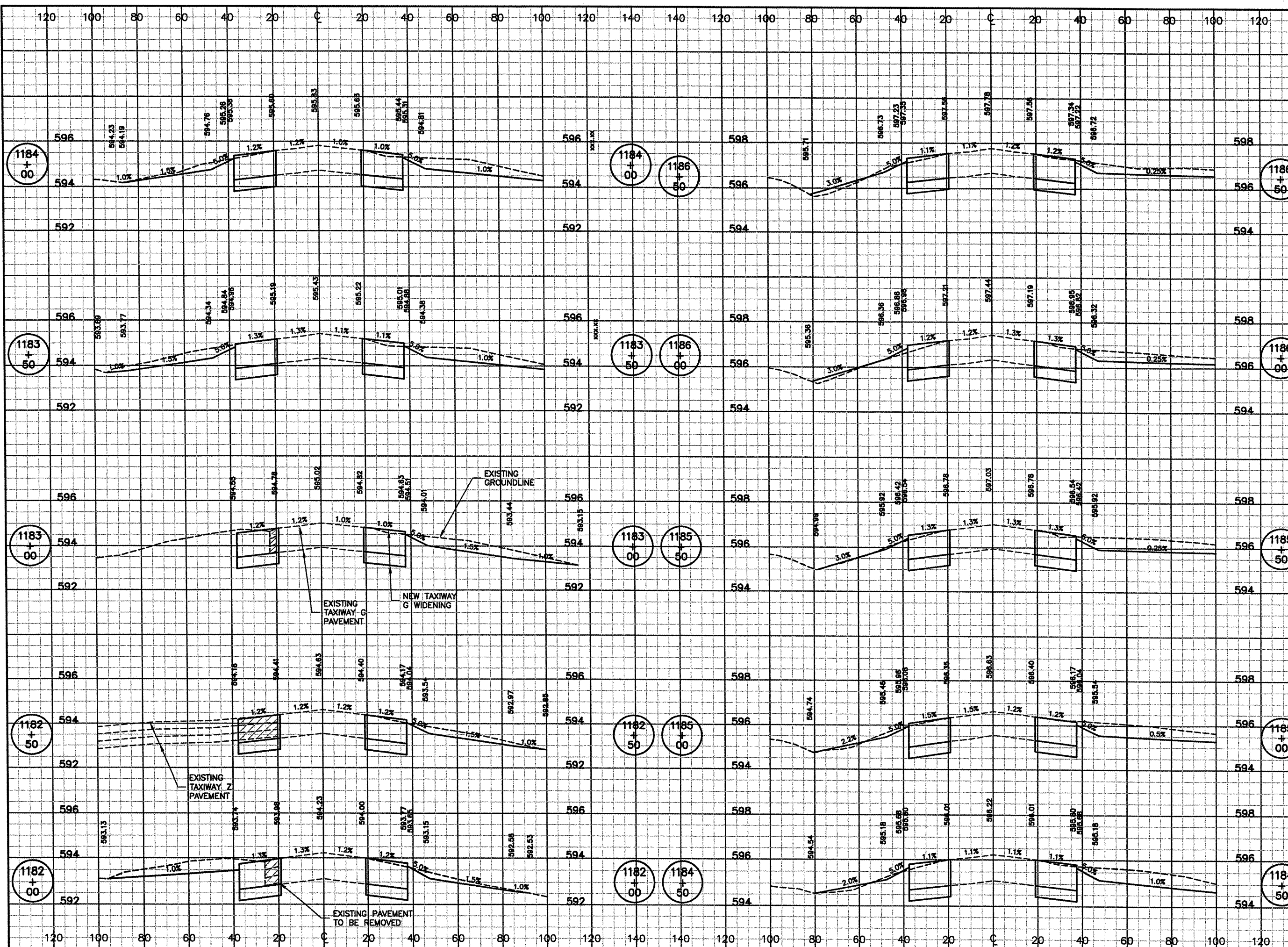
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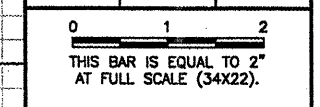
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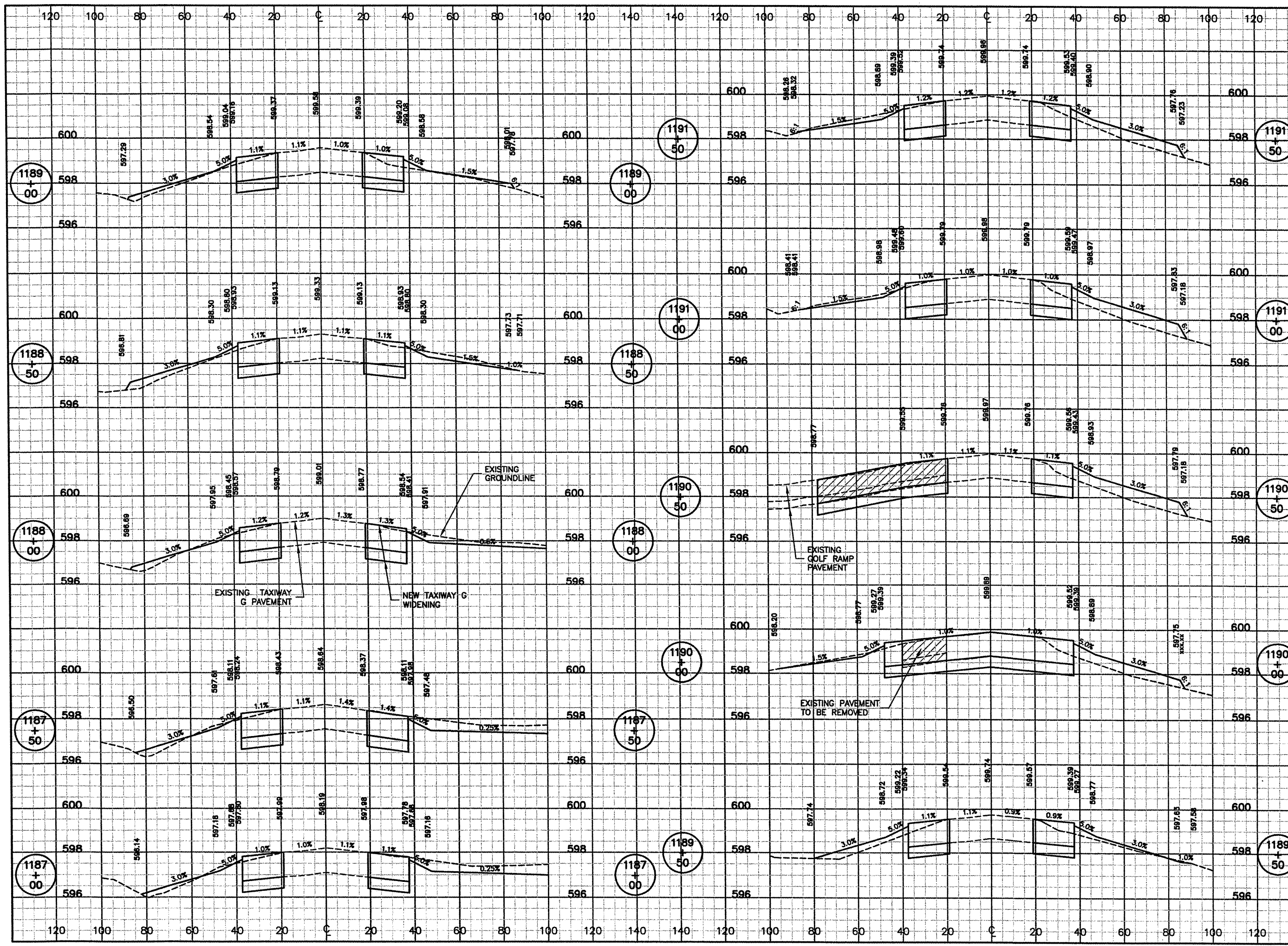
  
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**TAXIWAY G CROSS SECTIONS 3**  
**STA. 1187+00 TO STA. 1191+50**

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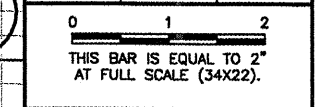
  
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SHEET 61 OF 65 SHEETS	



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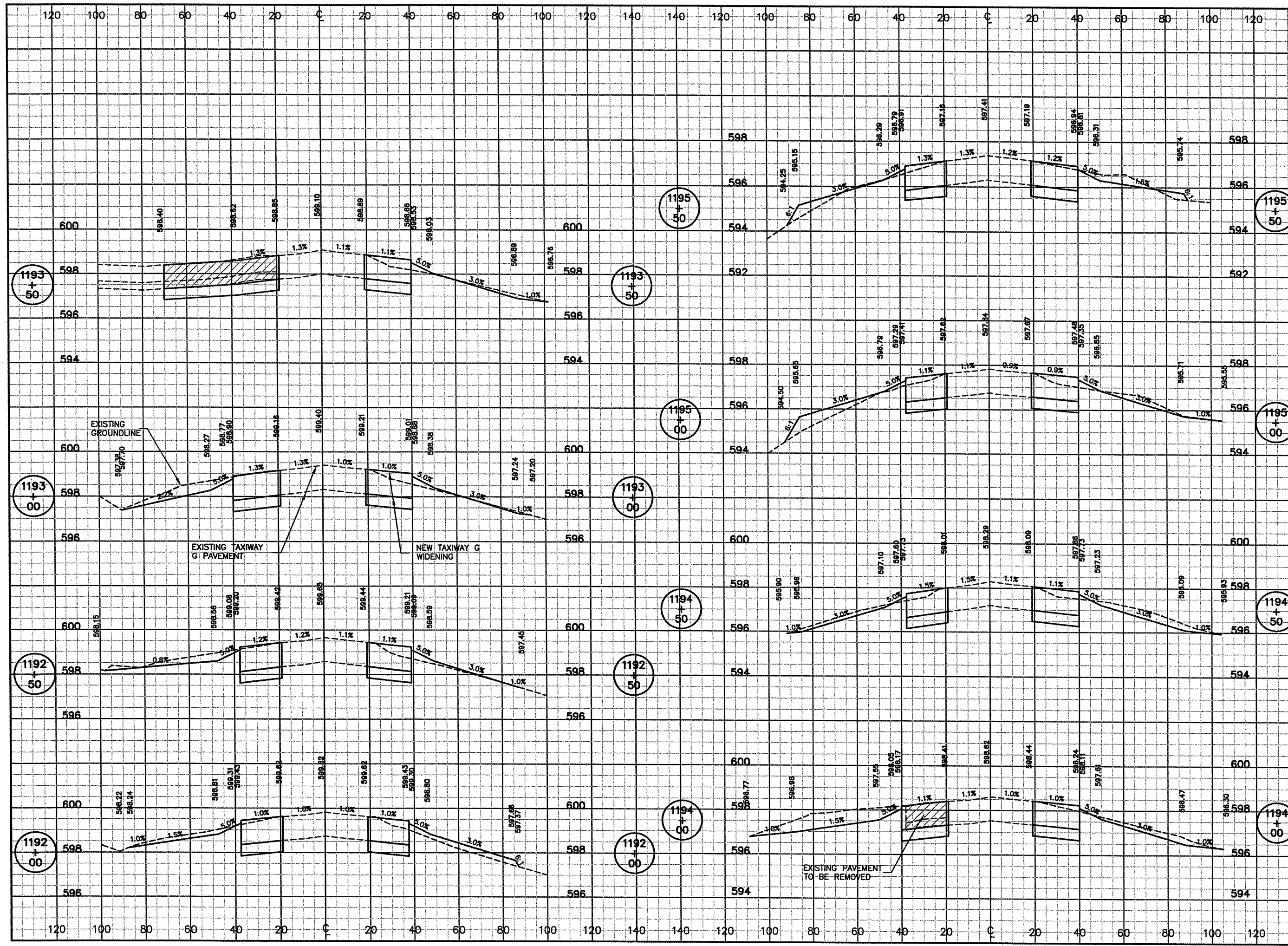
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 WIDEN TAXIWAY G - PHASE 2  
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 STA. 1192+00 TO STA. 1195+50

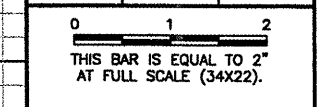
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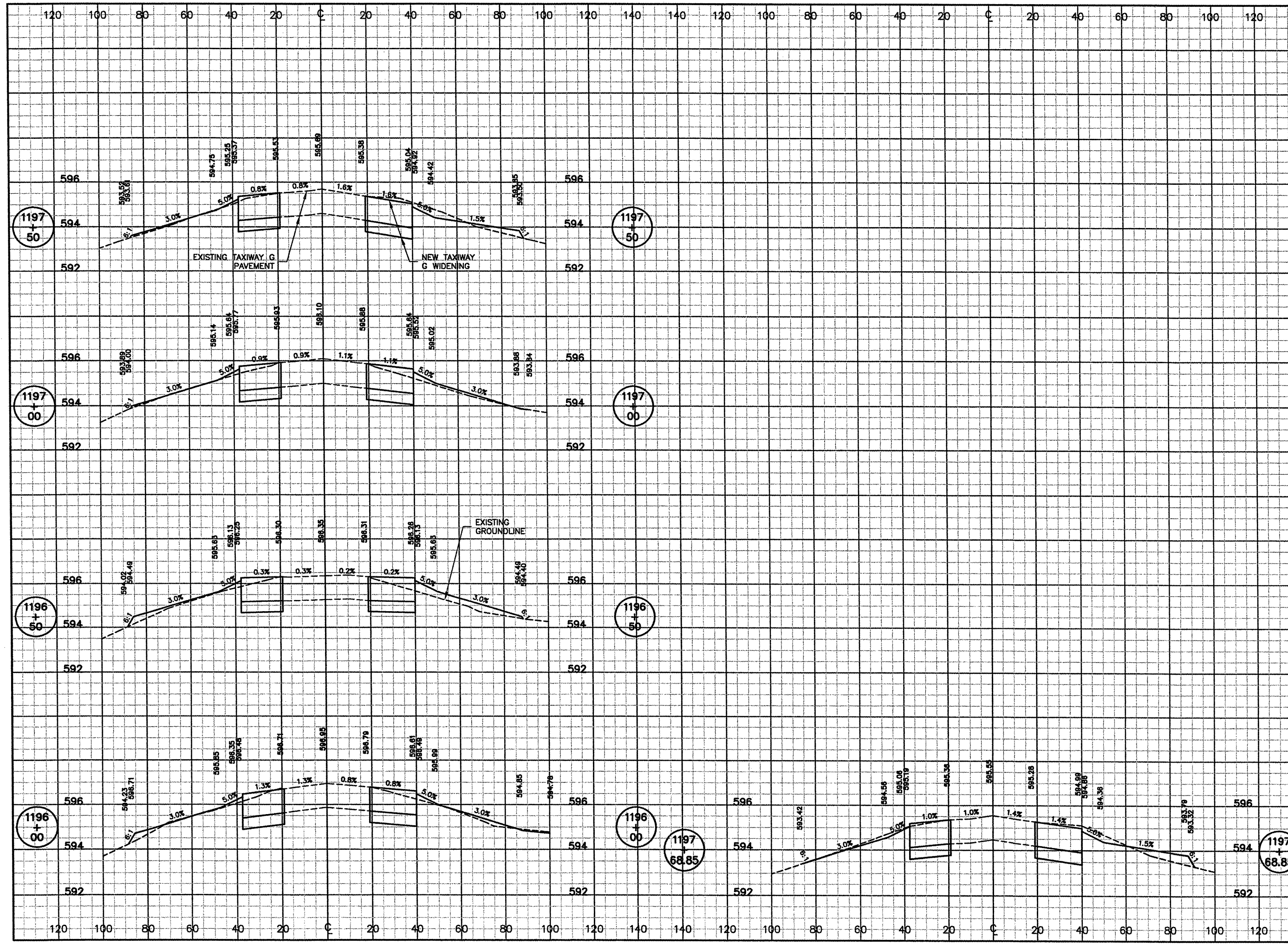


  
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WIDEN TAXIWAY G - PHASE 2  
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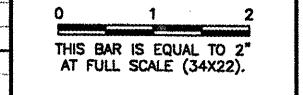
  
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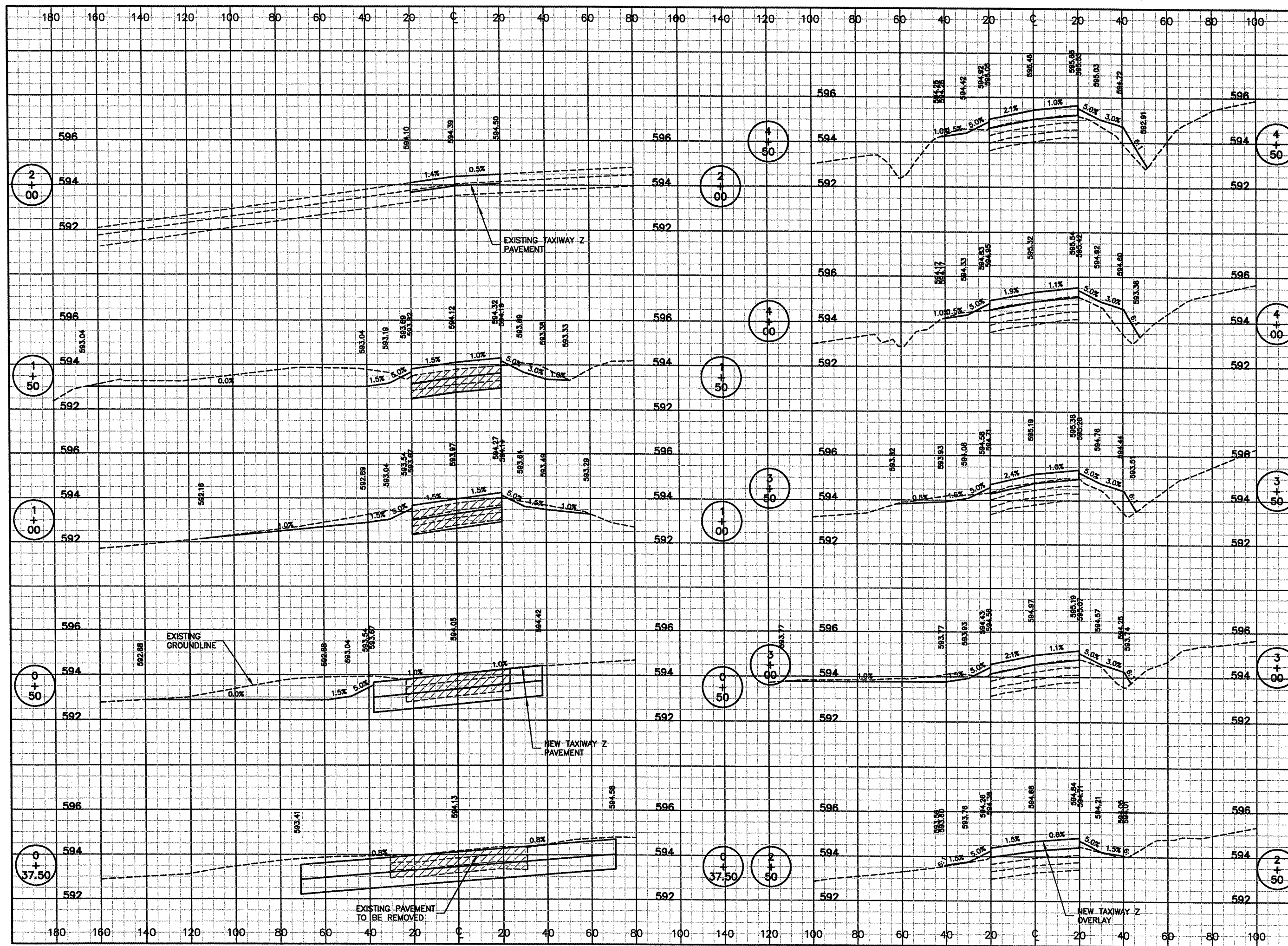
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**TAXIWAY Z CROSS SECTIONS 1**  
**STA. 0+37.50 TO STA. 4+50**

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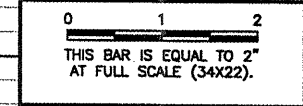





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 STA. 5+00 TO STA. 5+44.19

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