

ITEM 11A

5/16/08 LETTING

TOTAL SHEETS: 22

CA006

# CONSTRUCTION PLANS FOR ABRAHAM LINCOLN CAPITAL AIRPORT

SPRINGFIELD AIRPORT AUTHORITY  
SPRINGFIELD, IL

IL. PROJ. NO. SPI-3789  
AIP PROJ. NO. 3-17-0096-XX

## TAXIWAY GOLF WIDENING-PHASE 1 REALIGN NORTH PERIMETER ROAD

APRIL 25, 2008

4/25/2008



*Christopher B. Groh*  
Exp. 11/30/09



SPRINGFIELD AIRPORT AUTHORITY  
ABRAHAM LINCOLN CAPITAL AIRPORT  
SPRINGFIELD, ILLINOIS  
APPROVED *Mark Stannan*  
EXECUTIVE DIRECTOR OF AVIATION

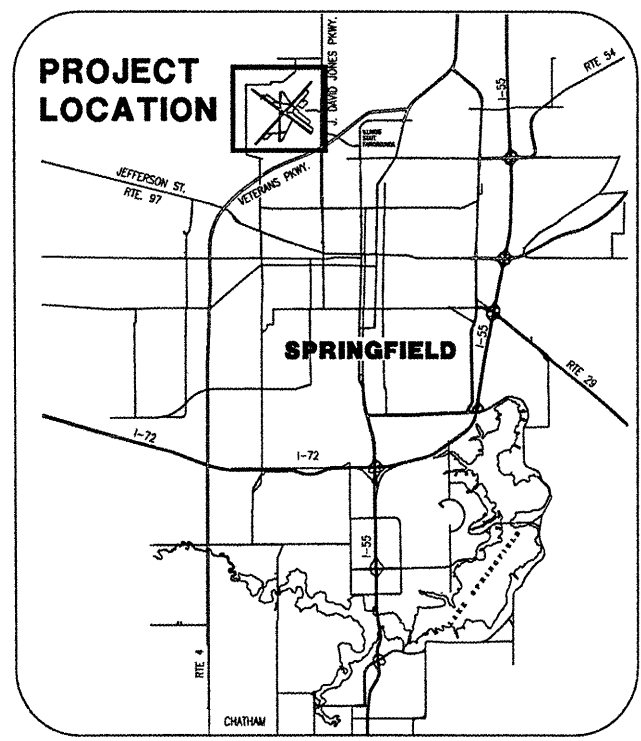
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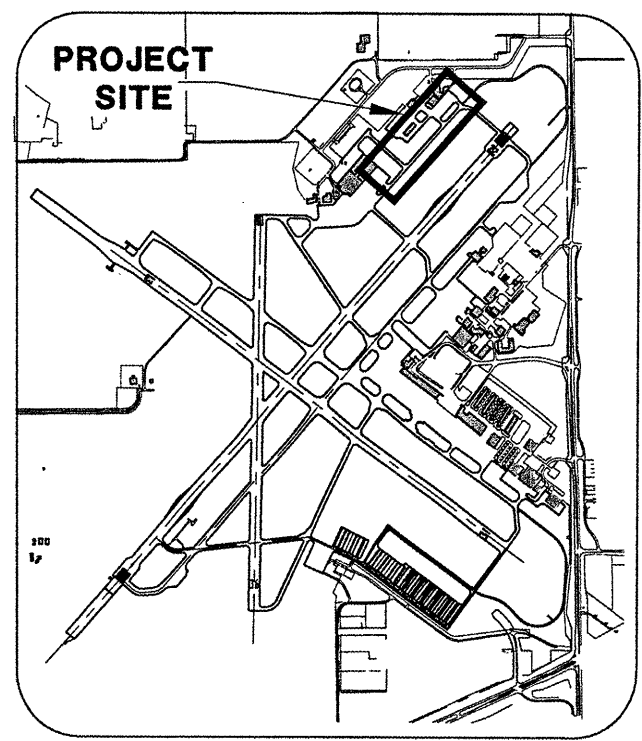
CRAWFORD MURPHY & TILLY, INC.  
CONSULTING ENGINEERS  
■ SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO

SUBMITTED BY *Christopher B. Groh*  
DATE *April 18, 2008*

CMT JOB NUMBER: 07035-09-00



LOCATION MAP



SITE PLAN

**811** Know what's below. Call before you dig. J.U.L.I.E. JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS www.illinoiscall.com

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**  
AIRPLANE DESIGN GROUP D  
AIRCRAFT APPROACH CATEGORY IV

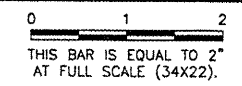
CALL J.U.L.I.E.  
BEFORE EXCAVATING  
1-800-892-0123

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

K:\Springfield\0703559\Draw\Sheets\Phase 1  
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UPDATE BY: Dove Allen  
PLOT DATE: 4/19/2008 10:57 AM

CA006

REVISIONS		
NUMBER	BY	DATE



INDEX TO SHEETS	
SHEET	TITLE
01	COVER SHEET
02	INDEX TO SHEETS & SUMMARY OF QUANTITIES
03	AIRPORT SITE PLAN
04	CONSTRUCTION ACTIVITY PLAN
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14	DUCT BANK DETAIL
15	INDEX TO CROSS SECTIONS - TURFING PLAN
16	EARTHWORK SUMMARY
17	EROSION CONTROL DETAILS
18	PERIMETER ROAD CROSS SECTIONS STA. 2180+09.89 TO STA. 2184+00
19	PERIMETER ROAD CROSS SECTIONS STA. 2184+50 TO STA. 2189+00
20	PERIMETER ROAD CROSS SECTIONS STA. 2189+50 TO STA. 2197+00
21	PERIMETER ROAD CROSS SECTIONS STA. 2197+50 TO STA. 2201+50
22	PERIMETER ROAD REMOVAL CROSS SECTIONS STA. 0+00 TO STA. 3+50

SUMMARY OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
BASE BID			
AR107960	RELOCATE WIND CONE	EACH	1
AR110550	SPLIT DUCT	L.F.	50
AR160510	ENGINEER'S FIELD OFFICE	L.S.	1
AR152410	UNCLASSIFIED EXCAVATION	C.Y.	2300
AR152515	SUBGRADE UNDERCUT	C.Y.	800
AR152540	SOIL STABILIZATION FABRIC	S.Y.	3000
AR156510	SILT FENCE	L.F.	500
AR156520	INLET PROTECTION	EACH	7
AR156543	RIPRAP-GRADATION NO. 3	S.Y.	100
AR209606	CRUSHED AGG. BASE COURSE - 6"	S.Y.	4800
AR800387	BITUMINOUS BASE COURSE - 2.5"	S.Y.	4550
AR800378	BITUMINOUS SURFACE COURSE - 1.5"	S.Y.	5000
AR401655	BUTT JOINT CONSTRUCTION	S.Y.	450
AR401665	BITUMINOUS PAVEMENT SAWING	L.F.	500
AR401900	REMOVE BITUMINOUS PAVEMENT	S.Y.	1780
AR602510	BITUMINOUS PRIME COAT	GAL	1930
AR603510	BITUMINOUS TACK COAT	GAL	465
AR620510	PAVEMENT MARKING	S.F.	1000
AR701512	12" RCP, CLASS IV	L.F.	300
AR701900	REMOVE PIPE	L.F.	55
AR751410	INLET	EACH	2
AR752900	REMOVE END SECTION	EACH	2
AR752412	PRECAST REINFORCED CONC. FES 12"	EACH	2
AR901510	SEEDING	ACRE	4
AR908510	MULCHING	ACRE	4
AR908520	EXCELSIOR BLANKET	S.Y.	3000
AR910200	ROADWAY SIGN	EACH	7
AR910915	REMOVE ROADWAY SIGN	EACH	2

SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, IL

TXY G WIDENING-PHASE 1 REALIGN NORTH PERIMETER ROAD  
 INDEX TO SHEETS  
 &  
 SUMMARY OF QUANTITIES

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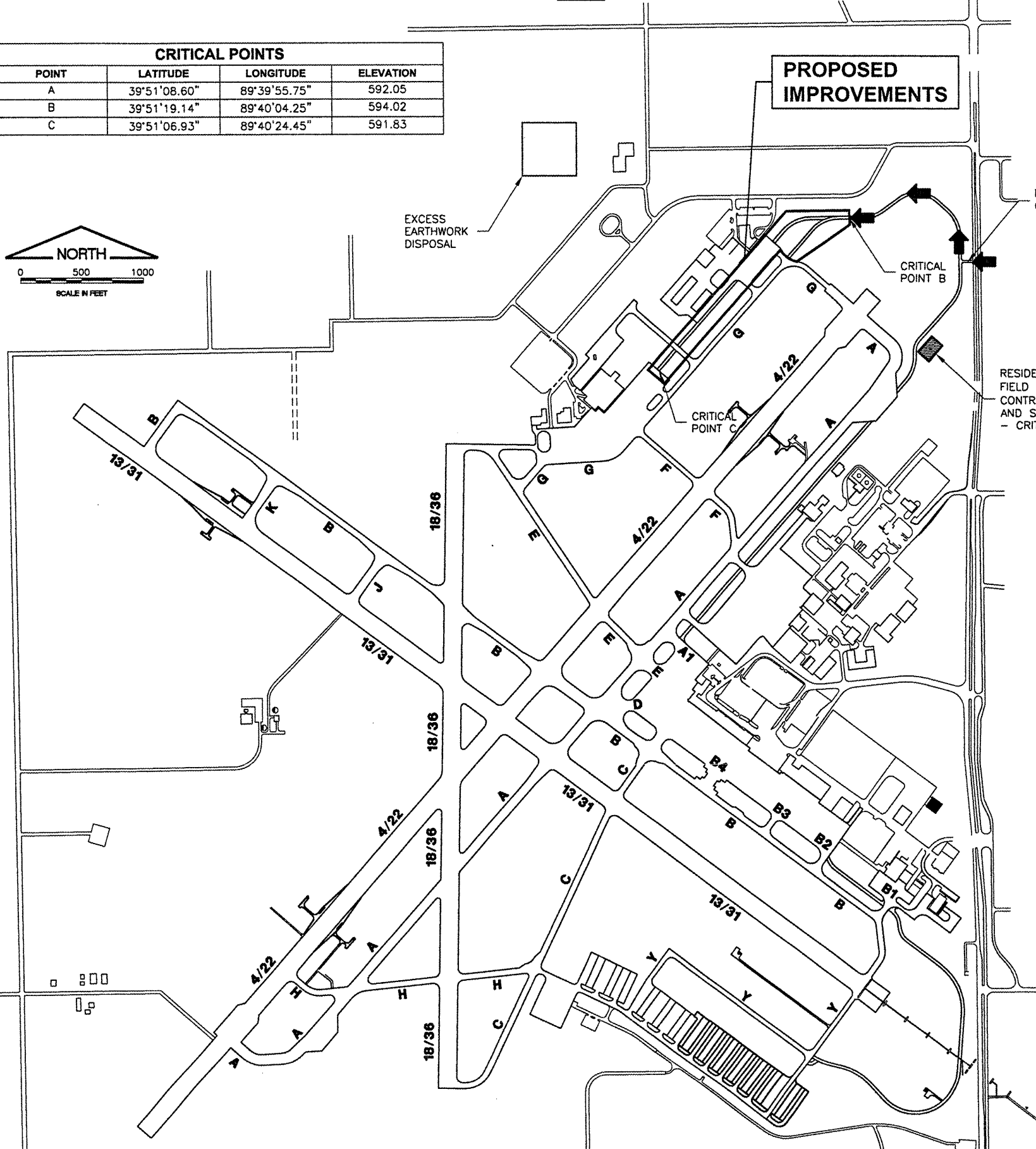
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APPROVED BY:	<i>RW</i>
DATE:	APRIL 25, 2008
JOB No:	07035-09-00
IL PROJ. NO.	SPI-3789
AIP PROJ. NO.	3-17-0096-XX
SHEET	02 OF 22 SHEETS

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

**LEGEND**

- ← CONTRACTOR'S ACCESS
- ▭ PROPOSED WORK AREA

CRITICAL POINTS			
POINT	LATITUDE	LONGITUDE	ELEVATION
A	39°51'08.60"	89°39'55.75"	592.05
B	39°51'19.14"	89°40'04.25"	594.02
C	39°51'06.93"	89°40'24.45"	591.83



**PROPOSED IMPROVEMENTS**

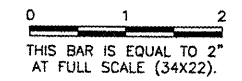
**GENERAL NOTES**

1. ALL RUNWAYS, TAXIWAYS, AND APRONS SHALL BE KEPT OPEN TO AIRPORT TRAFFIC DURING CONSTRUCTION EXCEPT AS NOTED IN THE CONSTRUCTION ACTIVITY PLAN.
2. ALL CONSTRUCTION TRAFFIC OPERATING ON OR CROSSING RUNWAYS, TAXIWAYS, AND APRONS OPEN TO AIRCRAFT 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.
3. WHEN CONFLICTS ARISE BETWEEN CONSTRUCTION ACTIVITIES AND AIRCRAFT OPERATIONS AND SAFETY, AIRCRAFT OPERATIONS AND SAFETY SHALL TAKE PRECEDENCE AND SHALL GOVERN. FINAL AUTHORITY IN THE APPROVAL OF CONSTRUCTION SEQUENCING LIES WITH THE AIRPORT DIRECTOR.
4. THE CONTRACTOR WILL BE PERMITTED TO STORE EQUIPMENT AND MATERIALS AT THE LOCATIONS SHOWN ON THE CONSTRUCTION ACTIVITY PLAN. THE MAXIMUM HEIGHT OF EQUIPMENT, MATERIALS AND STOCKPILES SHALL BE 25' ABOVE GROUND ELEVATION.
5. BROKEN ASPHALT SHALL BE DISPOSED OF BY THE CONTRACTOR OFF OF AIRPORT PROPERTY UNLESS OTHERWISE DIRECTED BY THE AIRPORT.
6. VEHICLES AND EQUIPMENT SHALL NOT BE ALLOWED WITHIN 95' FROM THE CENTERLINE OF ACTIVE TAXIWAYS OR 250' FROM THE CENTERLINE OF ACTIVE RUNWAYS.
7. 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.
8. 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.
9. THE CONTRACTOR SHALL HAVE A SWEEPER OR VACUUM TRUCK TO CONTINUOUSLY CLEAN CONSTRUCTION AREAS THAT ARE OPENED TO AIR TRAFFIC.
10. IT WILL BE NECESSARY FOR THE CONTRACTOR TO MAKE HIS OWN FIELD INVESTIGATION TO DETERMINE THE EXACT LOCATION OF THE UNDERGROUND UTILITIES AT CRITICAL POINTS SO AS TO AVOID ANY DAMAGE. ANY UTILITY, INCLUDING AIRFIELD ELECTRICAL CABLE AND LIGHTS, DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY HIM AT HIS OWN EXPENSE IN A MANNER WHICH IS SATISFACTORY TO THE ENGINEER AND TO THE OWNER OF THE UTILITY. ANY REPAIRS THAT MUST BE MADE BY THE OWNER OF THE UTILITY SHALL HAVE THE COST REIMBURSED TO THE UTILITY BY THE CONTRACTOR. AIRFIELD LIGHTING CABLES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY A QUALIFIED ELECTRICIAN WITH THE COSTS TO BE BORNE BY THE CONTRACTOR.
11. CONTRACTOR'S ACCESS SHALL BE AS FOLLOWS:
  - A. THE CONTRACTOR'S ACCESS TO WORK SHALL BE AS SHOWN IN THE PLANS.
  - B. 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.
  - C. 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.
  - D. 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.
  - E. 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.
  - F. 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.
  - G. THE CONTRACTOR SHALL CLOSE AND LOCK THE ACCESS GATE(S) UPON LEAVING THE SITE.
  - H. ALL COSTS RELATING TO CONTRACTOR'S ACCESS AND SECURITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
  - I. 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.
  - J. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ACTIVE AIRFIELD PAVEMENTS WHICH ARE CROSSED BY HIS VEHICLES ACCESSING
12. EXCESS EARTHWORK DISPOSAL SHALL BE AS FOLLOWS:
  - A. EXCESS EARTHWORK SHALL BE DISPOSED AT THE LOCATION SHOWN, AS DIRECTED BY THE AIRPORT.
  - B. EXCESS EARTHWORK SHALL BE NEATLY STOCKPILED IN MULTIPLE LAYERS TO MINIMIZE AREA USED.

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SPRINGFIELD AIRPORT AUTHORITY  
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 SPRINGFIELD, IL

TXV G WIDENING-PHASE 1 REALIGN NORTH PERIMETER ROAD  
 AIRPORT SITE PLAN

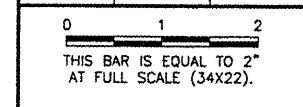
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**CONSTRUCTION ACTIVITY PLAN**

TXY G WIDENING-PHASE 1 REALIGN NORTH PERIMETER ROAD

SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, IL

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IL PROJ. NO.	SPI-3789
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SHEET	04 OF 22 SHEETS

**CONSTRUCTION ACTIVITY PLAN NOTES - GENERAL**

1. THE CONTRACTOR SHALL PLACE BARRICADES IN AREAS AS SHOWN PRIOR TO STARTING WORK IN EACH AREA.
2. THE AIRPORT WILL REQUIRE A 7 CALENDAR DAY NOTICE FROM THE CONTRACTOR PRIOR TO INITIATING WORK TO COORDINATE WITH THE TENANTS.
3. THE CONTRACTOR SHALL COORDINATE CLOSURE AND BLOCKED ACCESS AREAS WITH THE AIRPORT. THE WORK SHALL BE PERFORMED ON A MUTUALLY AGREED UPON DATE AND IN A TIMELY MANNER.
4. BARRICADES LOCATED ON THE IDOT RAMP PAVEMENT SHALL BE RELOCATED TO THE TURF AT PAVEMENT DROP OFFS AT THE END OF EACH WORK DAY AS DIRECTED BY THE AIRPORT.
5. CONTRACTOR'S STAGING AND STORAGE SHALL BE AS SHOWN ON SITE PLAN.
6. ALL CONSTRUCTION PHASES MAY BE CONSTRUCTED CONCURRENTLY.
7. BARRICADES AS SHOWN IN PLAN SHALL BE RELOCATED TO THE TURF AT PAVEMENT DROP OFFS AT THE END OF EACH WORK DAY AS DIRECTED BY THE AIRPORT.

**CONSTRUCTION ACTIVITY PLAN NOTES - PHASE 1**

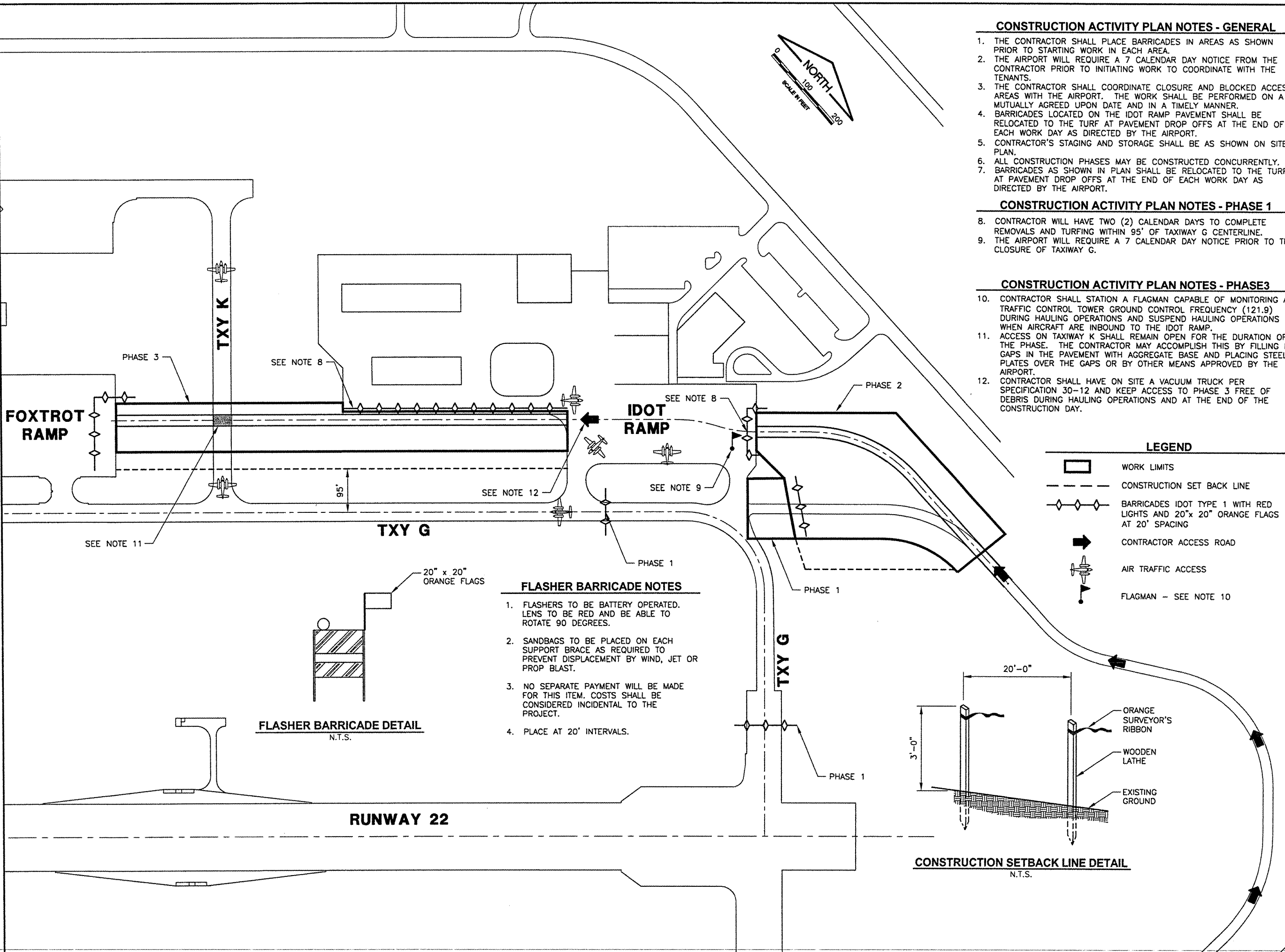
8. CONTRACTOR WILL HAVE TWO (2) CALENDAR DAYS TO COMPLETE REMOVALS AND TURFING WITHIN 95' OF TAXIWAY G CENTERLINE.
9. THE AIRPORT WILL REQUIRE A 7 CALENDAR DAY NOTICE PRIOR TO THE CLOSURE OF TAXIWAY G.

**CONSTRUCTION ACTIVITY PLAN NOTES - PHASE 3**

10. CONTRACTOR SHALL STATION A FLAGMAN CAPABLE OF MONITORING AIR TRAFFIC CONTROL TOWER GROUND CONTROL FREQUENCY (121.9) DURING HAULING OPERATIONS AND SUSPEND HAULING OPERATIONS WHEN AIRCRAFT ARE INBOUND TO THE IDOT RAMP.
11. ACCESS ON TAXIWAY K SHALL REMAIN OPEN FOR THE DURATION OF THE PHASE. THE CONTRACTOR MAY ACCOMPLISH THIS BY FILLING IN GAPS IN THE PAVEMENT WITH AGGREGATE BASE AND PLACING STEEL PLATES OVER THE GAPS OR BY OTHER MEANS APPROVED BY THE AIRPORT.
12. CONTRACTOR SHALL HAVE ON SITE A VACUUM TRUCK PER SPECIFICATION 30-12 AND KEEP ACCESS TO PHASE 3 FREE OF DEBRIS DURING HAULING OPERATIONS AND AT THE END OF THE CONSTRUCTION DAY.

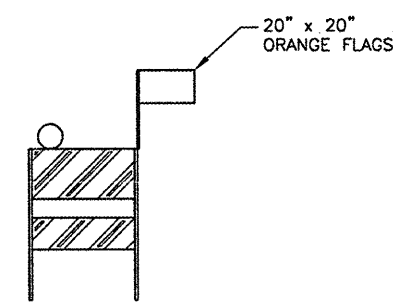
**LEGEND**

- WORK LIMITS
- CONSTRUCTION SET BACK LINE
- BARRICADES IDOT TYPE 1 WITH RED LIGHTS AND 20"x 20" ORANGE FLAGS AT 20' SPACING
- CONTRACTOR ACCESS ROAD
- AIR TRAFFIC ACCESS
- FLAGMAN - SEE NOTE 10

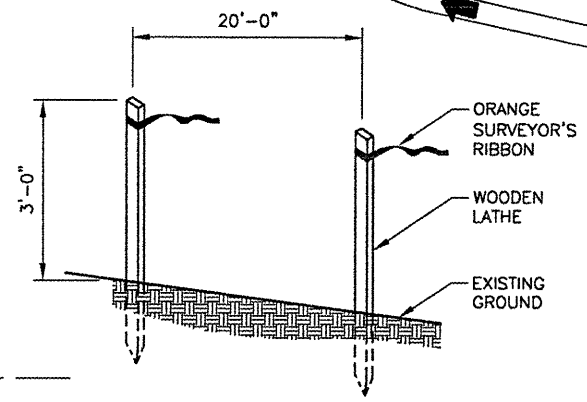


**FLASHER BARRICADE NOTES**

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.

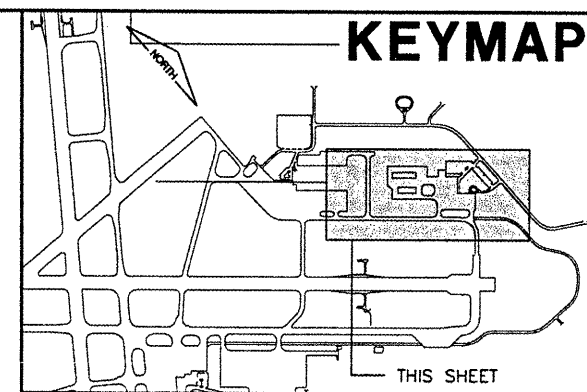
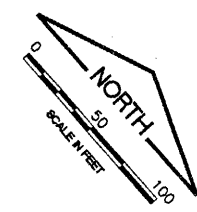


**FLASHER BARRICADE DETAIL**  
N.T.S.



**CONSTRUCTION SETBACK LINE DETAIL**  
N.T.S.

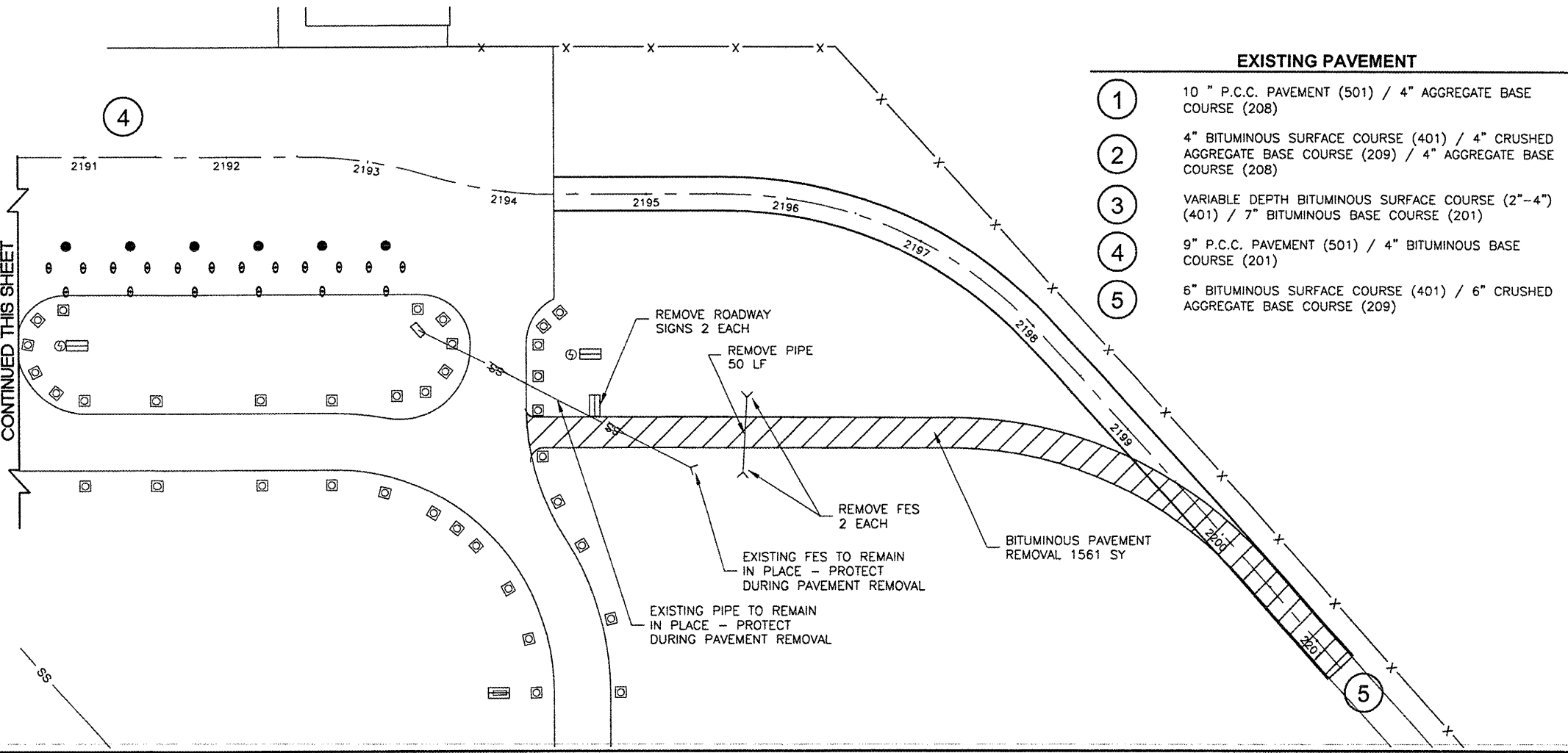
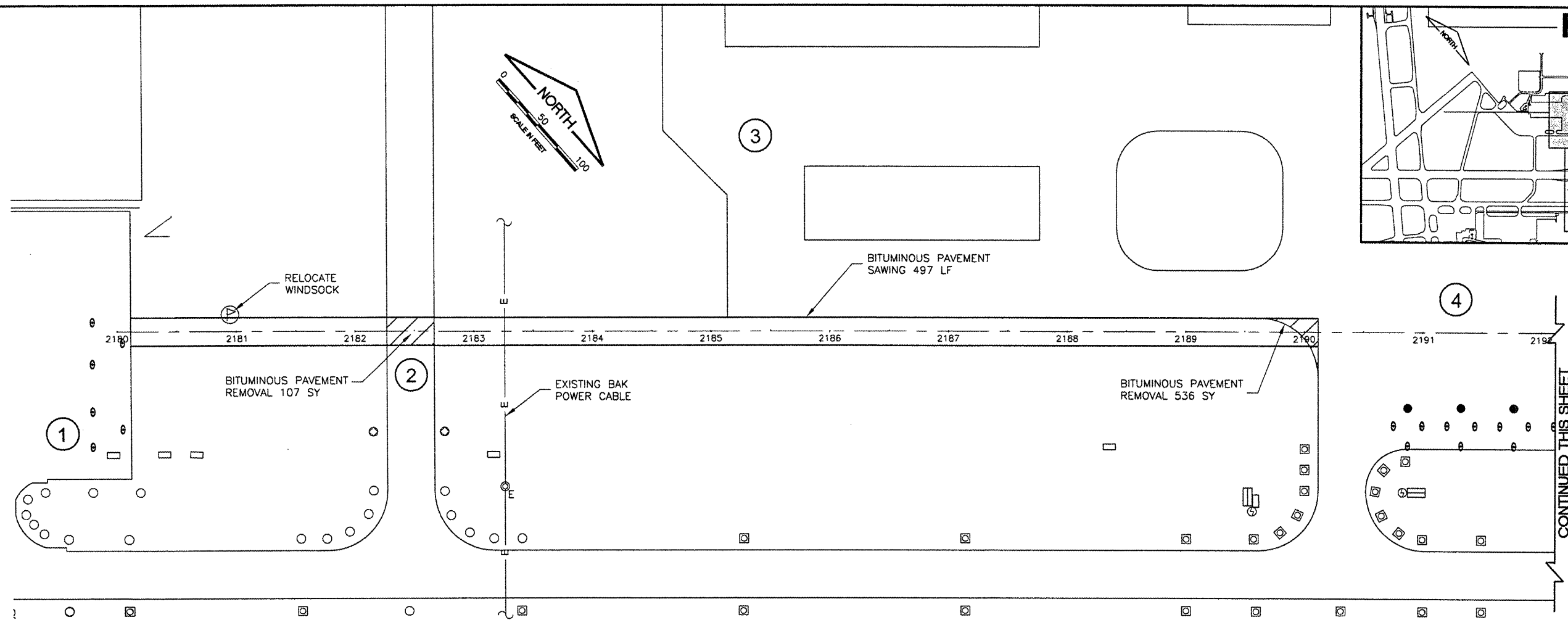
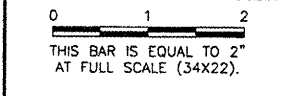




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- EXISTING PAVEMENT**
- ① 10" P.C.C. PAVEMENT (501) / 4" AGGREGATE BASE COURSE (208)
  - ② 4" BITUMINOUS SURFACE COURSE (401) / 4" CRUSHED AGGREGATE BASE COURSE (209) / 4" AGGREGATE BASE COURSE (208)
  - ③ VARIABLE DEPTH BITUMINOUS SURFACE COURSE (2"-4") (401) / 7" BITUMINOUS BASE COURSE (201)
  - ④ 9" P.C.C. PAVEMENT (501) / 4" BITUMINOUS BASE COURSE (201)
  - ⑤ 6" BITUMINOUS SURFACE COURSE (401) / 6" CRUSHED AGGREGATE BASE COURSE (209)

- LEGEND**
- PAVEMENT REMOVAL
  - INLET
  - BASE MOUNTED TAXIWAY LIGHT
  - STAKE MARKED LIGHT
  - RETRO-REFLECTIVE MARKER
  - GROUND ROD
  - TIE DOWN
  - ELECTRICAL MANHOLE
  - WINDSOCK
  - FENCE
  - BAK POWER CABLE
  - EXISTING TAXIWAY SIGN
  - NEW PAVEMENT

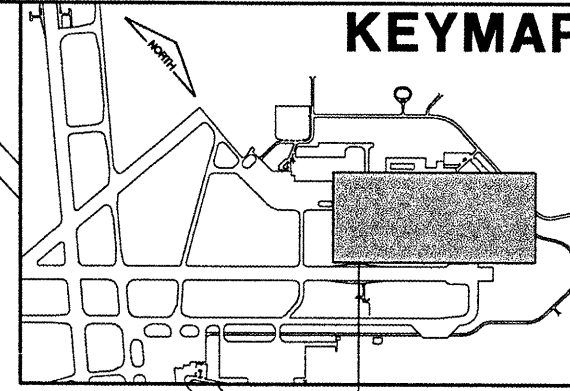
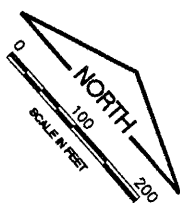
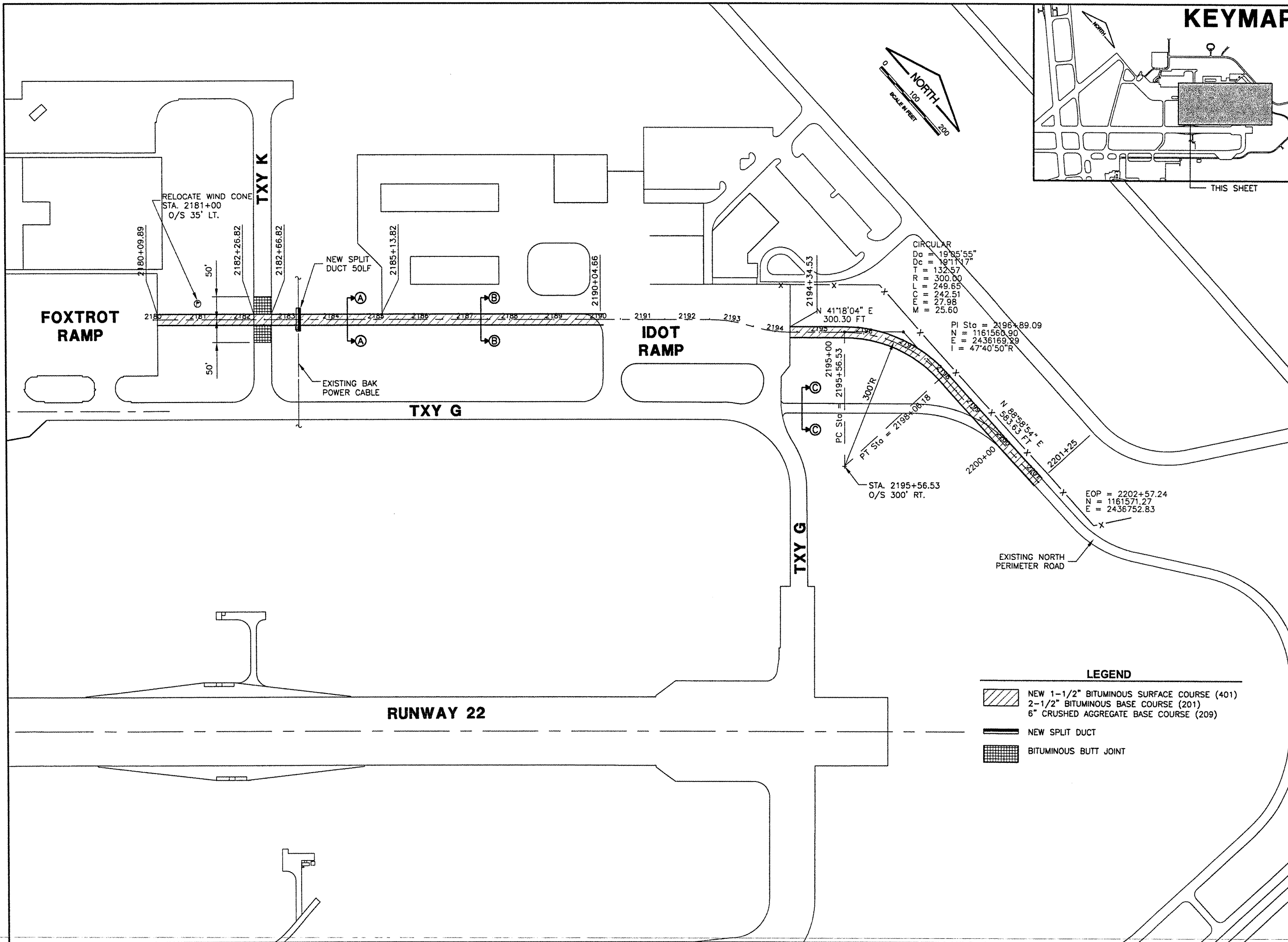


SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, IL

**TTY G WIDENING-PHASE 1 REALIGN NORTH PERIMETER ROAD  
 EXISTING CONDITIONS AND REMOVALS**

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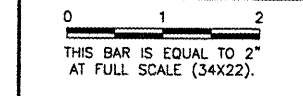
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SHEET	05 OF 22 SHEETS



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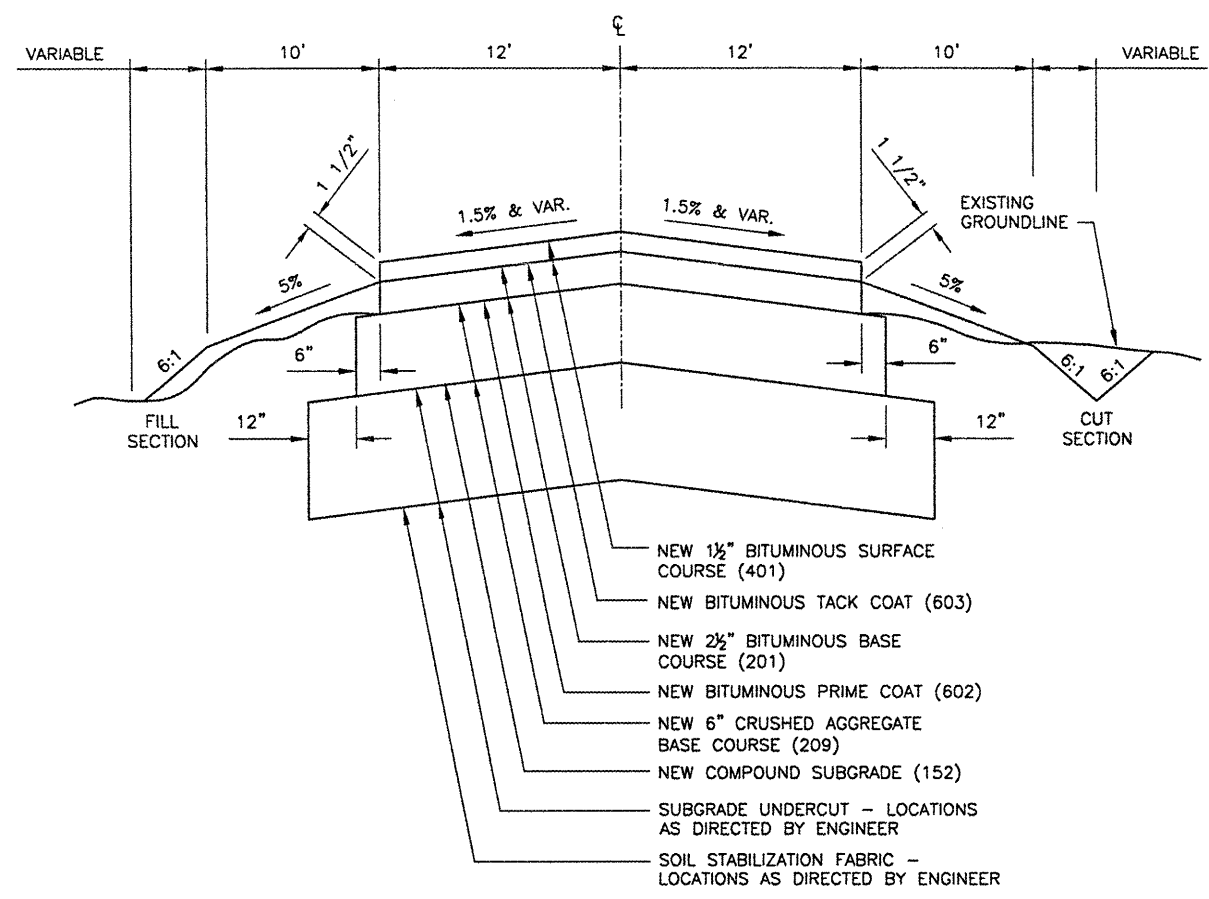
TXY G WIDENING-PHASE 1 REALIGN NORTH PERIMETER ROAD  
**PROPOSED IMPROVEMENTS**

**LEGEND**

-  NEW 1-1/2" BITUMINOUS SURFACE COURSE (401)  
 2-1/2" BITUMINOUS BASE COURSE (201)  
 6" CRUSHED AGGREGATE BASE COURSE (209)
-  NEW SPLIT DUCT
-  BITUMINOUS BUTT JOINT

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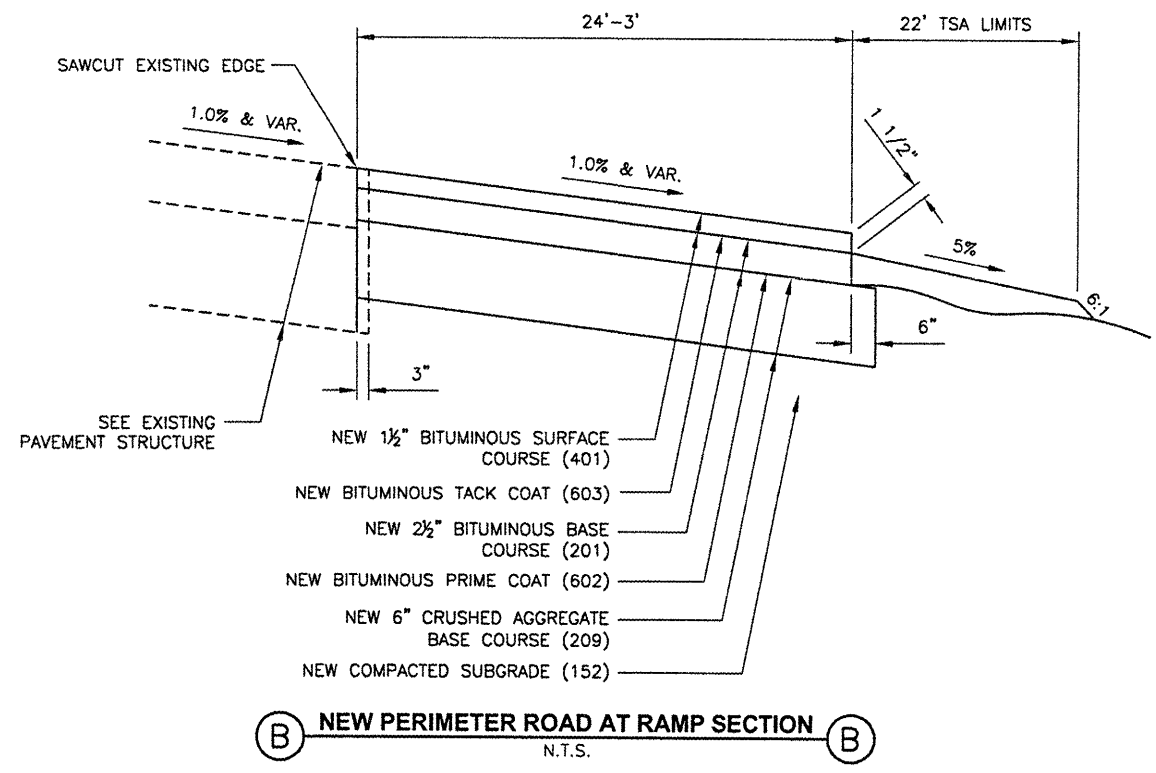
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AIP PROJ. NO.	3-17-0096-XX
SHEET	06 OF 22 SHEETS



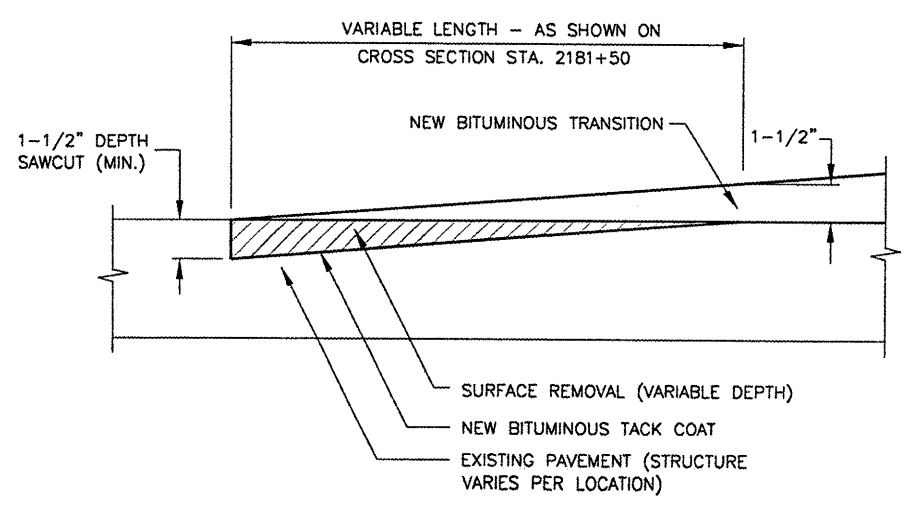
**A NEW PERIMETER ROAD**  
 N.T.S.

**PERIMETER ROAD NOTES**

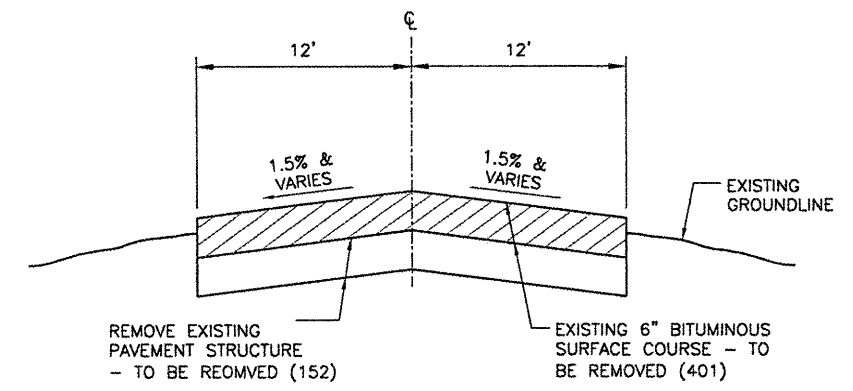
1. NEW PERIMETER ROAD INCLUDES CROWNED AND SINGLE SLOPED PAVEMENTS.
2. SEE PERIMETER ROAD CROSS SECTIONS FOR DETAILS.



**B NEW PERIMETER ROAD AT RAMP SECTION**  
 N.T.S.



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

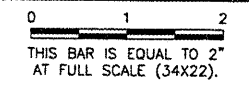


**C NE PERIMETER ROAD PAVEMENT REMOVAL**  
 N.T.S.

**TYPICAL SECTION NOTE**  
 SEE "PROPOSED IMPROVEMENTS" SHEET FOR SECTION LOCATIONS.

**CA006**

REVISIONS		
NUMBER	BY	DATE



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

**TXV G WIDENING-PHASE 1 REALIGN NORTH PERIMETER ROAD**  
**TYPICAL SECTIONS**

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DESIGN BY:	CBG
DRAWN BY:	DPA/JLR
CHECKED BY:	CBG
APPROVED BY:	JRW
DATE:	APRIL 25, 2008
JOB No:	07035-09-00
IL PROJ. NO. SPI-3789	
AIP PROJ. NO. 3-17-0096-XX	
SHEET 07 OF 22 SHEETS	

**LEGEND**

- SS — EXISTING STORM SEWER
- SS — NEW STORM SEWER
- EIN — EXISTING INLET
- IN — NEW INLET
- — EXISTING MANHOLE
- — PROPOSED CONTOURS
- E — EXISTING POWER CABLE

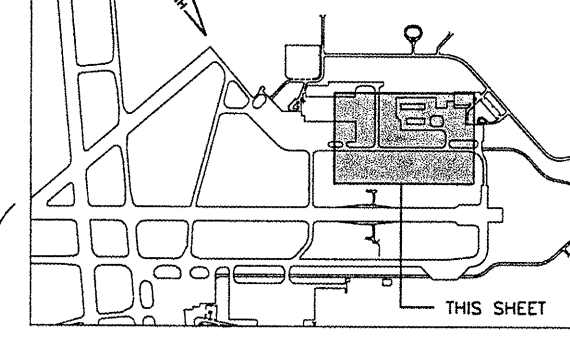
**STORM SEWER STRUCTURE SCHEDULE**

STRUCTURE	STATION	OFFSET	NORTHING	EASTING	RIM	INVERT	UPSTREAM PIPE	DOWNSTREAM PIPE
IN-1	2180+50	22' LT.	1160364.21	2435052.10	590.74'	586.24'	----	LINE 1
IN-2	2183+00	22' LT.	1160551.96	2435217.18	593.18'	589.58'	----	LINE 2
EIN-1	80+38.74	104' RT.	1160272.77	2435139.06	589.37'	584.97'	LINE 1	LINE 3
EIN-2	83+16.45	104' RT.	1160481.37	2435322.37	592.90'	588.31'	LINE 2	LINE 4

**STORM SEWER PIPE SCHEDULE**

LINE	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	SIZE	UPSTREAM INVERT	DOWNSTREAM INVERT	LENGTH	SLOPE
1	IN-1	EIN-1	12"	586.24'	584.57'	126'	1.0%
2	IN-2	EIN-2	12"	589.58'	588.31'	126'	1.0%

**KEYMAP**

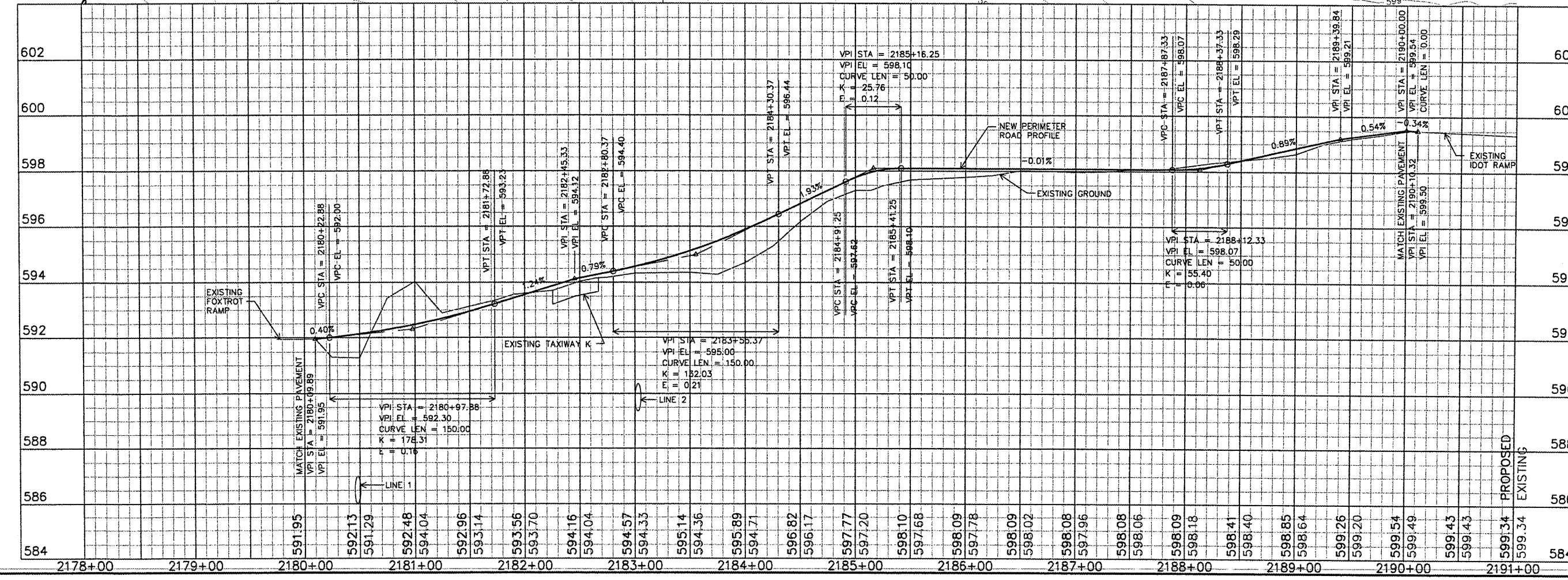
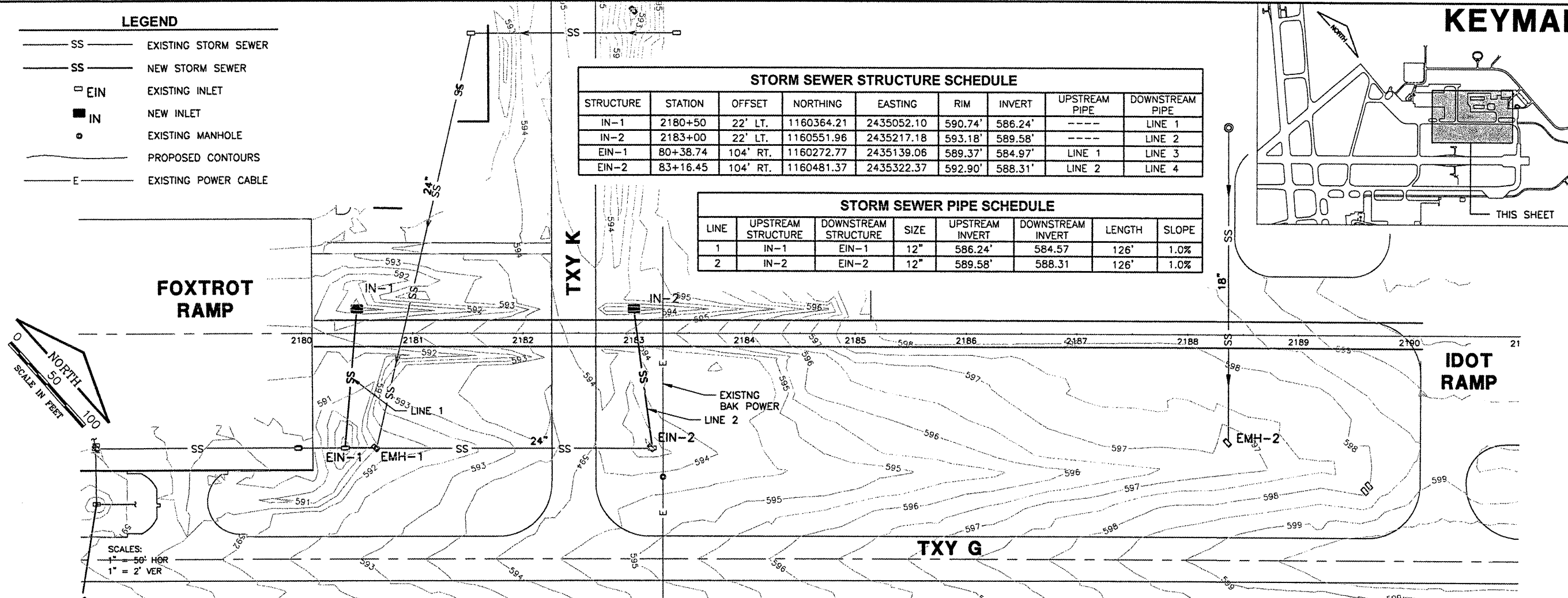
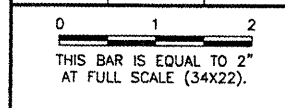


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 KEY

**CA006**

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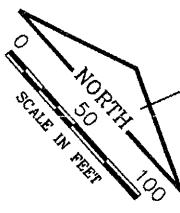
**SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, IL**

**TTY G WIDENING-PHASE 1 REALIGN NORTH PERIMETER ROAD  
 PERIMETER ROAD  
 PLAN AND PROFILE SHEET 1**

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 DRAWN BY: DPA/JLR  
 CHECKED BY: *CBG*  
 APPROVED BY: *RLV*  
 DATE: APRIL 25, 2008  
 JOB No: 07035-09-00  
 IL PROJ. NO. SPI-3789  
 AIP PROJ. NO. 3-17-0096-XX  
 SHEET 08 OF 22 SHEETS



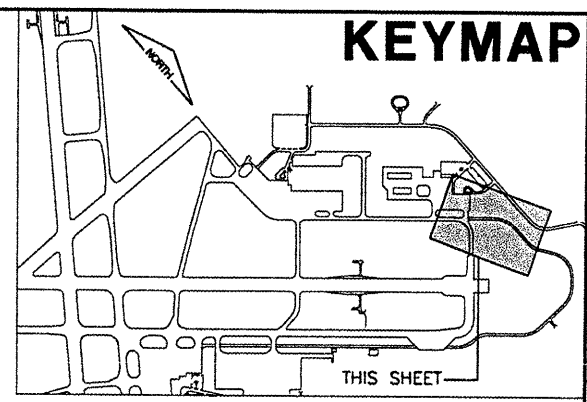


**IDOT RAMP**

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

STORM SEWER STRUCTURE SCHEDULE							
STRUCTURE	STATION	OFFSET	NORTHING	EASTING	INVERT	UPSTREAM PIPE	DOWNSTREAM PIPE
FES-1	2196+50	26' LT.	1161542.33	2436140.53	596.66'	----	LINE 3
FES-2	2196+50	26' RT.	1161499.40	2436166.16	596.12'	LINE 3	----

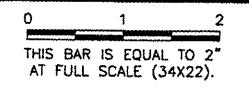
STORM SEWER PIPE SCHEDULE							
LINE	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	SIZE	UPSTREAM INVERT	DOWNSTREAM INVERT	LENGTH	SLOPE
3	FES-1	FES-2	12"	596.60'	596.18'	40'	1.0%



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PLOT DATE: 4/18/2008 10:59 AM  
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BASE\_PROPDRAIN  
ContourTxyG  
KEY

**CA006**

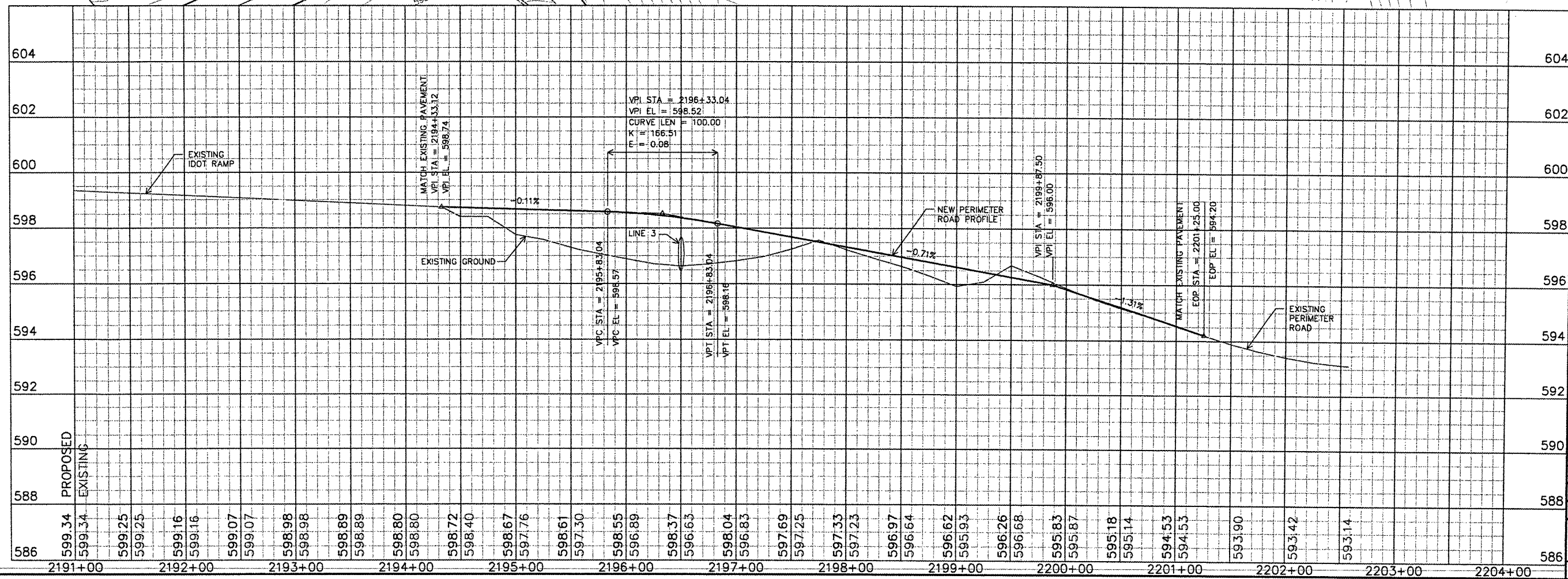
REVISIONS		
NUMBER	BY	DATE



- LEGEND**
- SS — EXISTING STORM SEWER
  - SS — NEW STORM SEWER
  - ▽ EXISTING FES
  - ▼ NEW FES

SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, IL

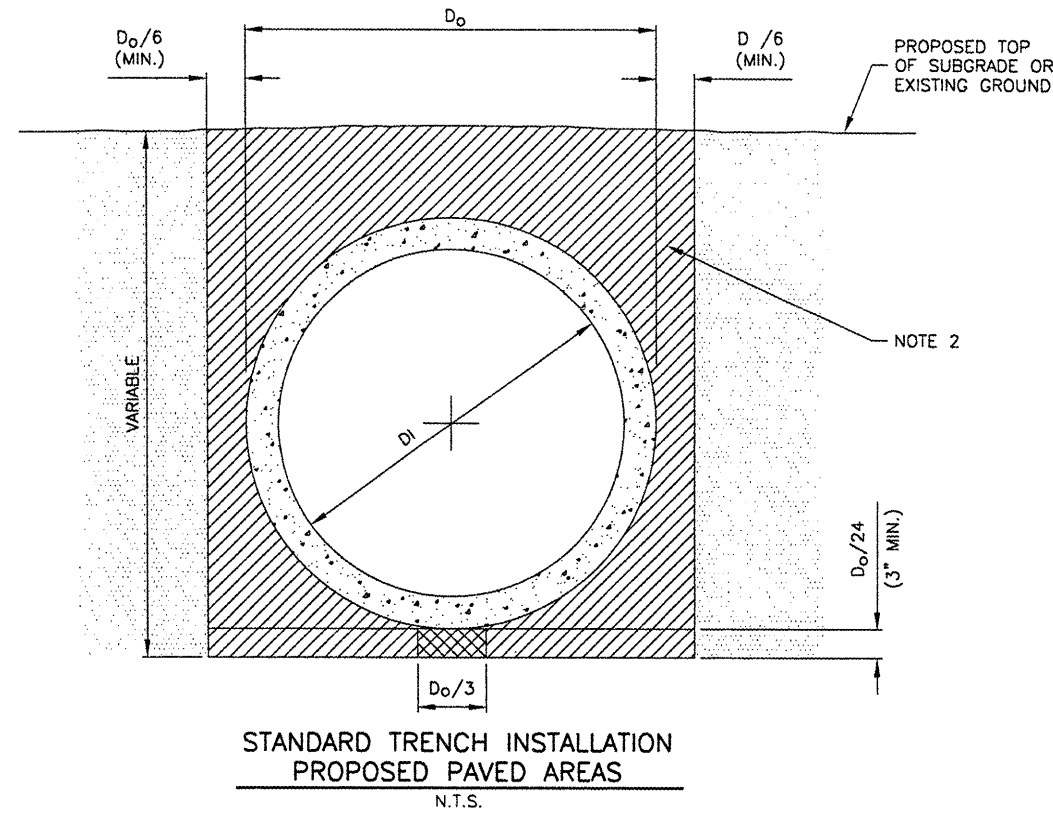
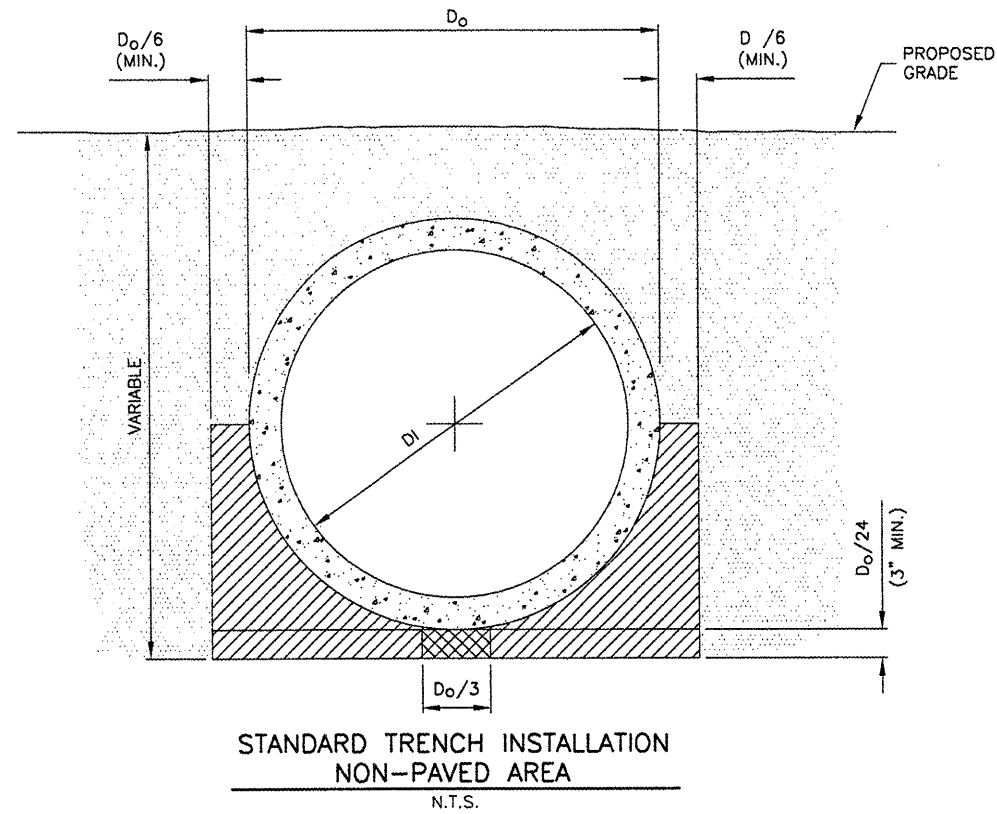
TXG WIDENING-PHASE 1 REALIGN NORTH PERIMETER ROAD  
 PERIMETER ROAD  
 PLAN AND PROFILE SHEET 2



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CHECKED BY:	CBG
APPROVED BY:	RJV
DATE:	APRIL 25, 2008
JOB No:	07035-09-00
IL PROJ. NO.	SP1-3789
AIP PROJ. NO.	3-17-0096-XX





**LEGEND**

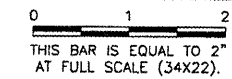
- DRAINAGE CONDUIT MATERIAL—CONCRETE
- MIDDLE BEDDING LOOSELY PLACED UNCOMPACTED BEDDING
- HAUNCH AND OUTER BEDDING COMPACTION— TO ENGINEER'S SATISFACTION OR 95% STANDARD PROCTOR
- LOWER SIDE AND OVERFILL COMPACTION— SAME AS EMBANKMENT REQUIREMENTS

$D_o$  PIPE OUTSIDE DIAMETER  
 $D_i$  PIPE INSIDE DIAMETER

- NOTES**
- 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.
  - BACKFILL TO EXTEND 3' BEYOND EDGES OF PROPOSED PAVEMENT.

**CA006**

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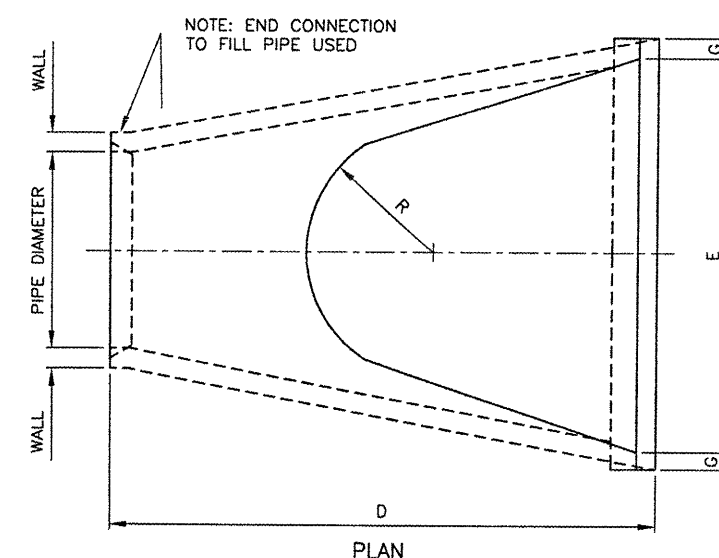
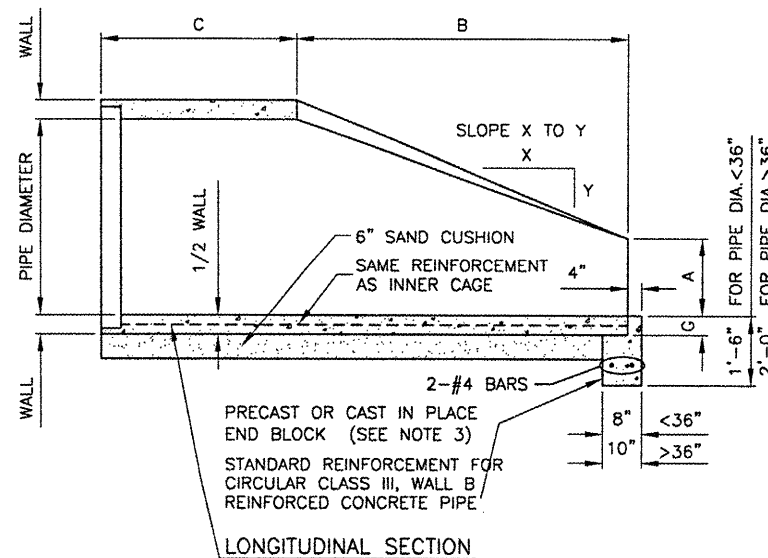
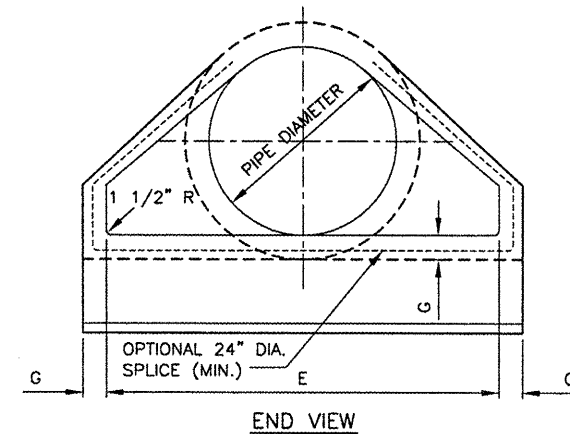
SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, IL

TXV G WIDENING-PHASE 1 REALIGN NORTH PERIMETER ROAD  
**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 REINFORCED CONCRETE FLARED END SECTION**  
 (I.D.O.T. STD. NO. 542301)  
 N.T.S.

**NOTES**

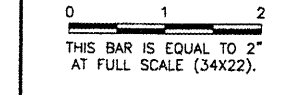
- PRECAST CONCRETE FLARED END SECTIONS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF AASHTO M-170 CLASS III, WALL B REINFORCED CONCRETE PIPE.
- PRECAST CONCRETE FLARED END SECTION FOR PIPE DIAMETER REQUIRED SHALL BE AS INDICATED ON DETAIL PLAN FOR EACH INDIVIDUAL INSTALLATION.
- THE END BLOCK SHALL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

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APPROVED BY:	RW
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JOB No:	07035-09-00
IL PROJ. NO.	SPI-3789
AIP PROJ. NO.	3-17-0096-XX
SHEET	10 OF 22 SHEETS

CA006

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NUMBER	BY	DATE



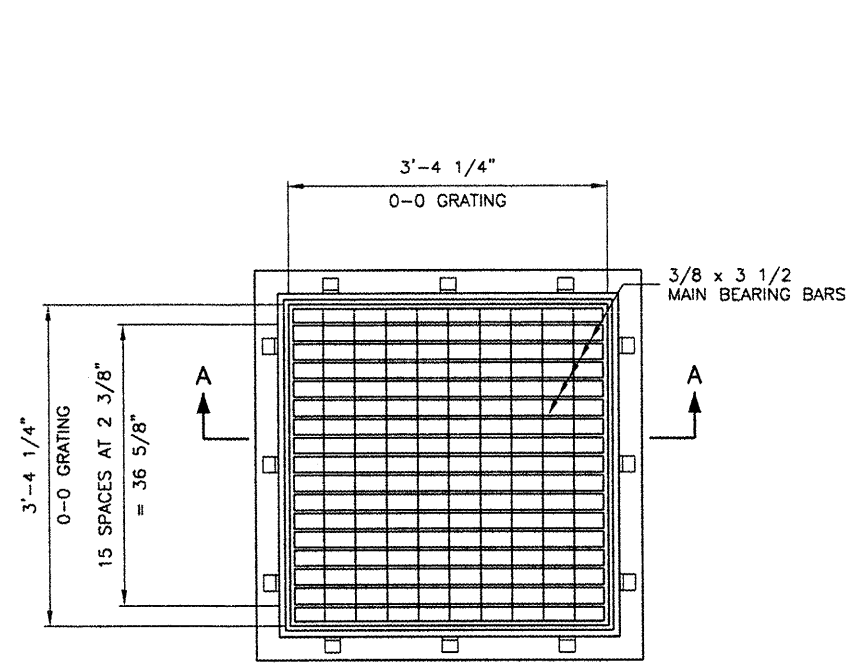
**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, IL**

**TXV G WIDENING-PHASE 1 REALIGN NORTH PERIMETER ROAD**

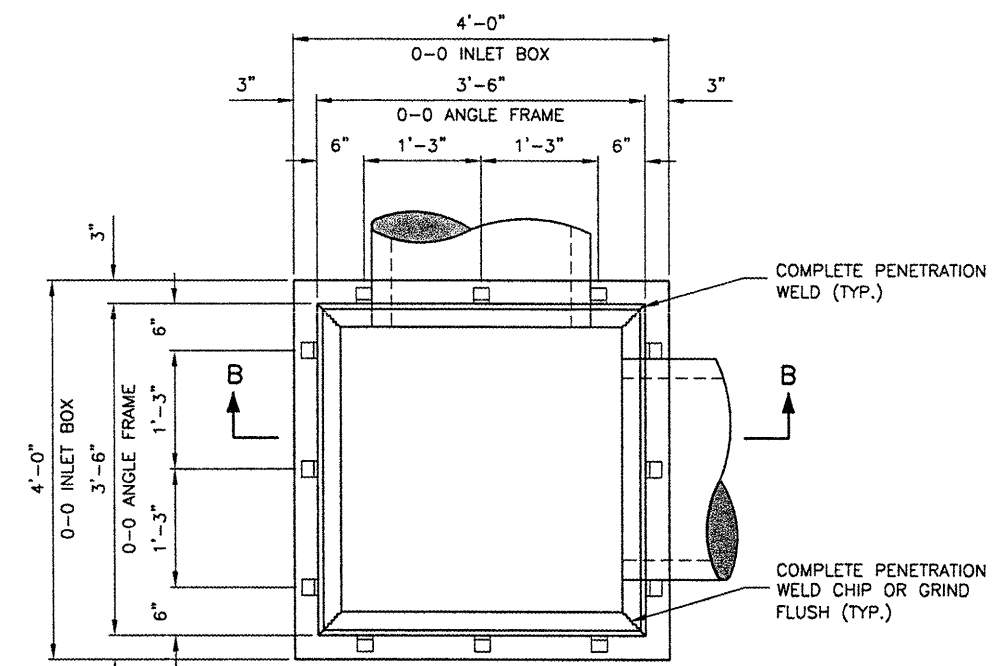
**INLET DETAILS**

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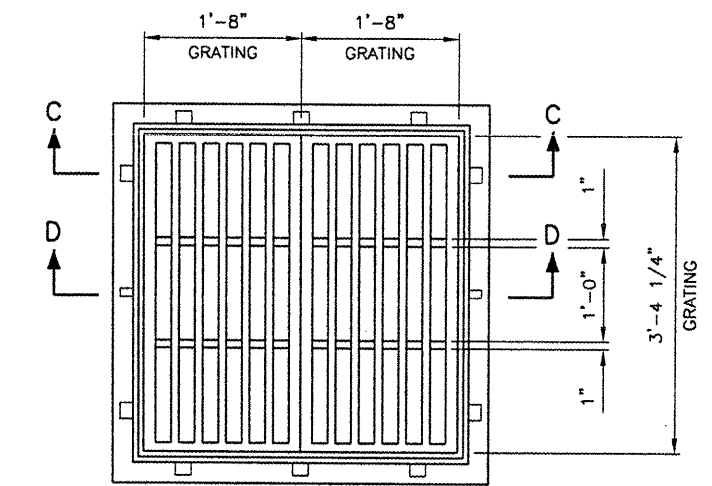
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APPROVED BY:	RJV
DATE:	APRIL 25, 2008
JOB No:	07035-09-00
IL PROJ. NO.	SPI-3789
AIP PROJ. NO.	3-17-0096-XX
SHEET	11 OF 22 SHEETS



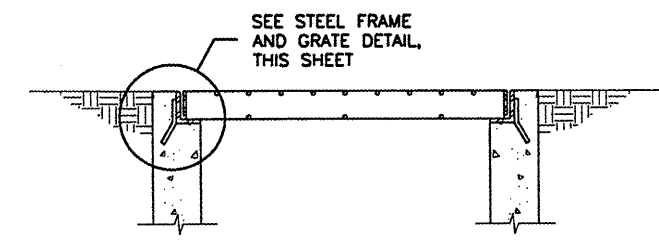
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N.T.S.



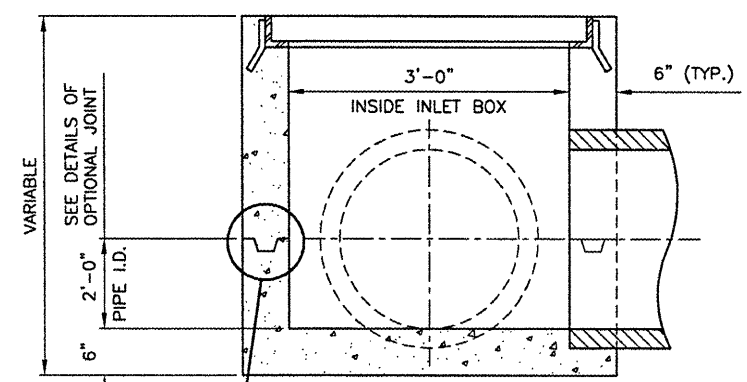
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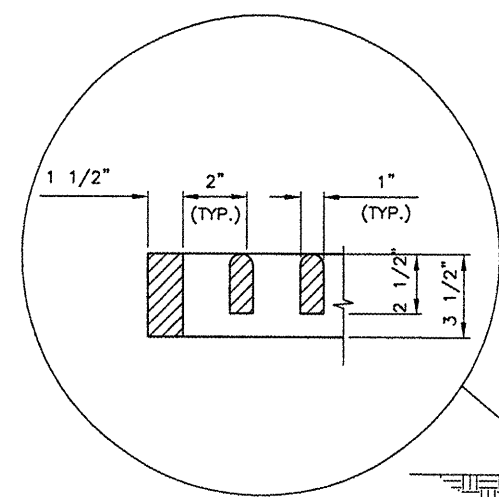
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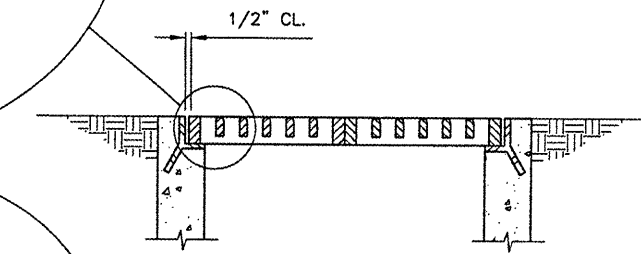
**SECTION A-A**  
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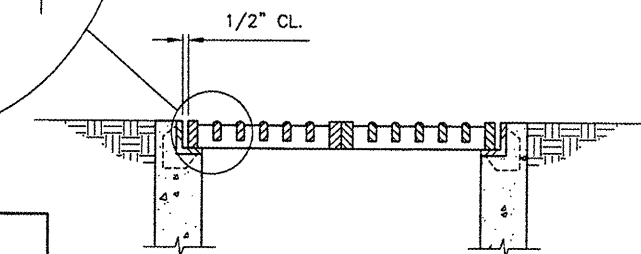
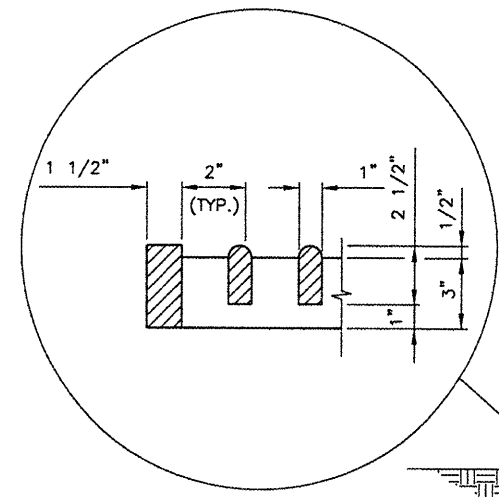
**SECTION B-B**  
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SEE OPTIONAL JOINT DETAIL, THIS SHEET

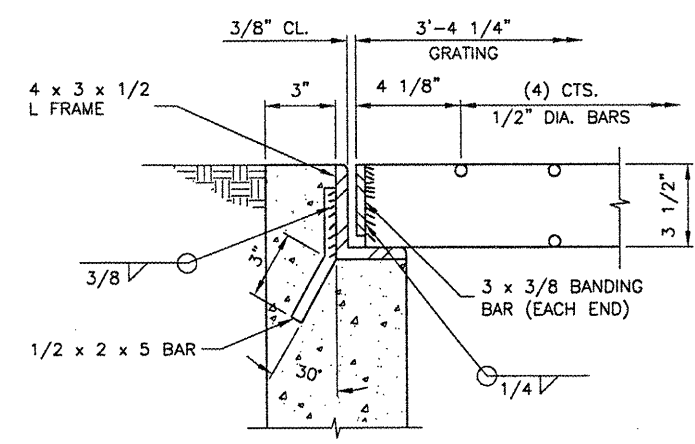


**SECTION C-C**  
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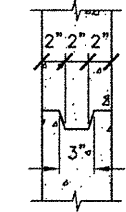


**SECTION D-D**  
CAST FRAME AND GRATE DETAIL  
N.T.S.

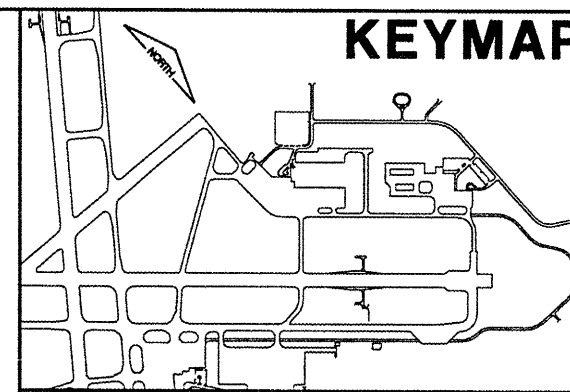
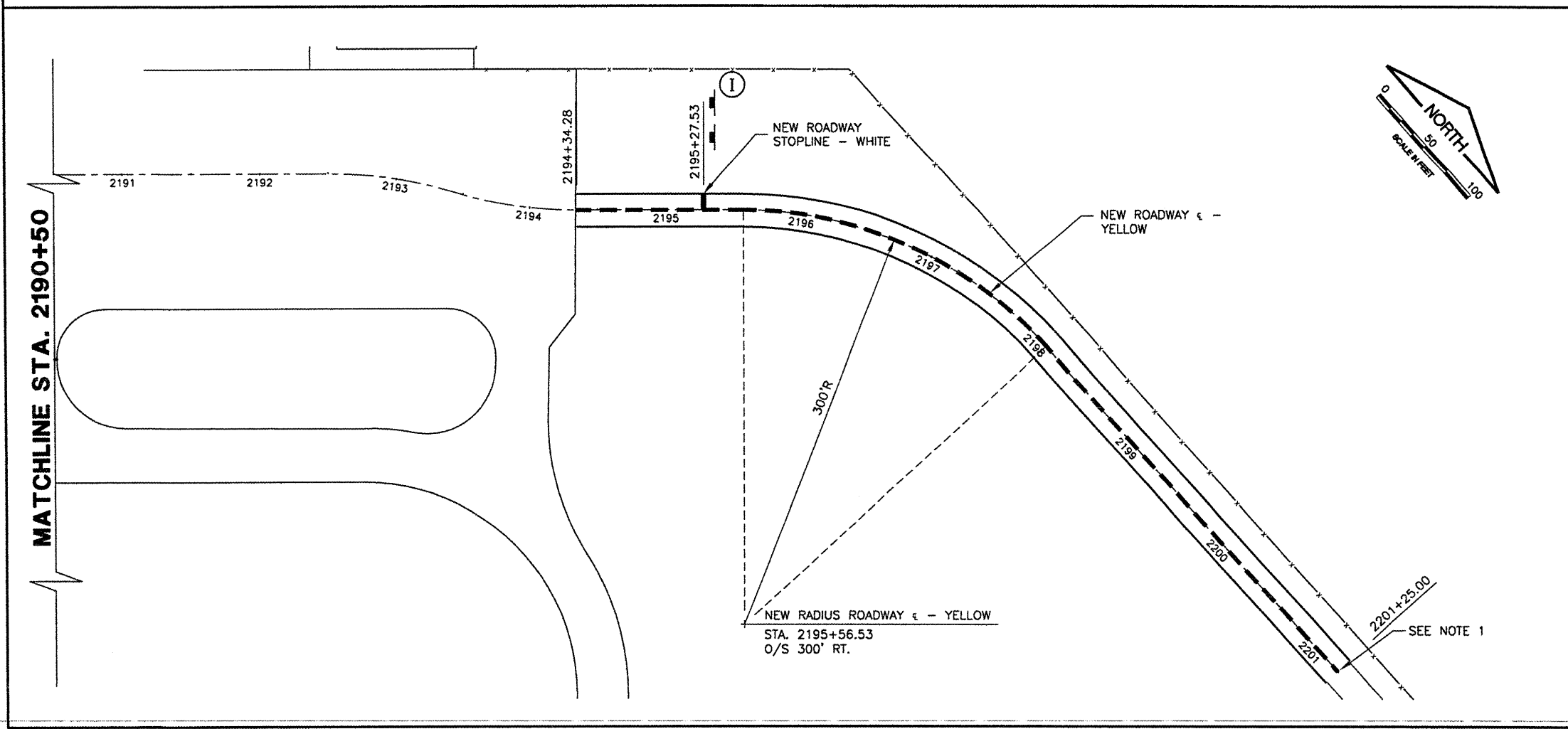
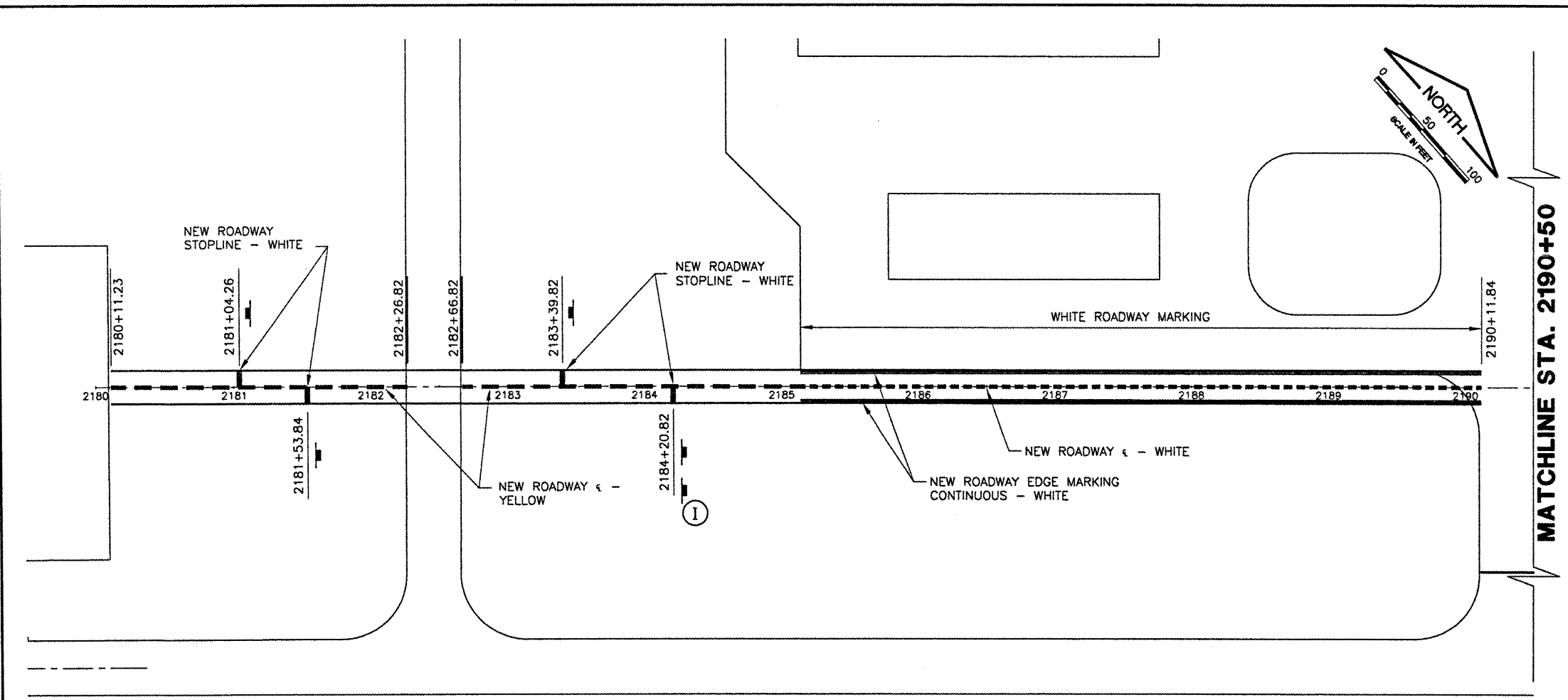
**NOTE:**  
 INLET IS AN IDOT STD. 542546, FLUSH INLET BOX FOR MEDIAN. FRAME & GRATES ARE NEENAH R-3807 OR APPROVED EQUAL.



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



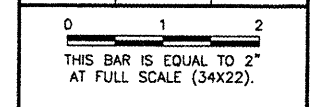
**OPTIONAL JOINT DETAIL**  
N.T.S.



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 PLOT DATE: 4/18/2008 10:59 AM  
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 BASE\_EXISTGEO  
 BASE\_PROPGEO  
 BASE\_PROPMARK

**CA006**

REVISIONS		
NUMBER	BY	DATE



- LEGEND**
- NEW CONTINUOUS EDGE MARKING
  - NEW DASHED CENTERLINE MARKING - YELLOW
  - NEW DASHED CENTERLINE MARKING - WHITE
  - STOP SIGN
  - INFORMATION SIGN

- NOTES**
1. THE CONTRACTOR SHALL REMARK TWO DASHED LINES BEYOND STATION 2201+25 TO FIX MARKING THAT HAS BEEN DAMAGED DURING CONSTRUCTION.
  2. STOP SIGNS SHALL BE OFFSET 10' FROM EOP AND SHALL BE PLACED AT ALL STOP BAR LOCATIONS. SIGNS TO BE OFFSET ON THE SIDE CORRESPONDING TO THE NEW STOP BAR.

**MARKING PLAN**

TXY G WIDENING-PHASE 1 REALIGN NORTH PERIMETER ROAD

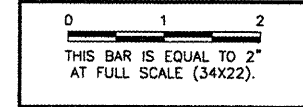
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 SPRINGFIELD, IL


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CHECKED BY:	CBG
APPROVED BY:	RLV
DATE:	APRIL 25, 2008
JOB No:	07035-09-00
IL PROJ. NO.	SPI-3789
AIP PROJ. NO.	3-17-0096-XX
SHEET	12 OF 22 SHEETS

CA006

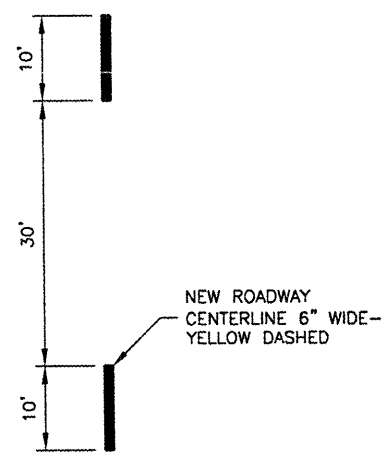
REVISIONS		
NUMBER	BY	DATE



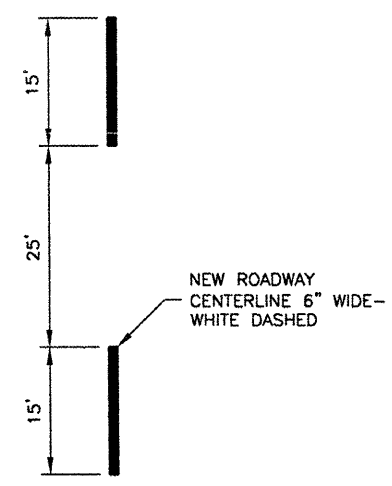
  
 SPRINGFIELD AIRPORT AUTHORITY  
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 SPRINGFIELD, IL  
 TXY G WIDENING-PHASE 1 REALIGN NORTH PERIMETER ROAD  
 ROADWAY SIGNAGE / MARKING DETAILS

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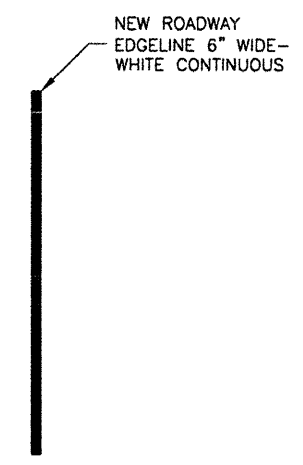
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JOB No:	07035-09-00
IL PROJ. NO.	SPI-3789
AIP PROJ. NO.	3-17-0096-XX
SHEET	13 OF 22 SHEETS



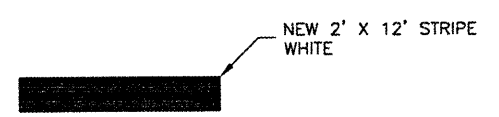
**ROADWAY CENTERLINE - DASHED**  
N.T.S.



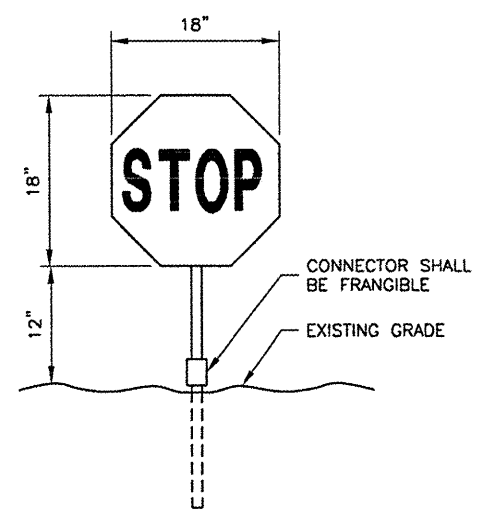
**ROADWAY CENTERLINE ADJACENT TO APRON - DASHED**  
N.T.S.



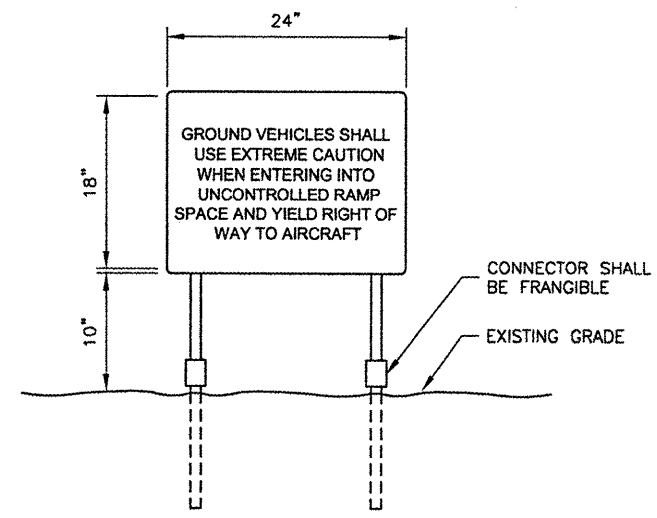
**ROADWAY EDGELINES ADJACENT TO APRON - CONTINUOUS**  
N.T.S.



**NEW ROADWAY STOPLINE**  
N.T.S.



**STOP SIGN DETAIL**  
N.T.S.

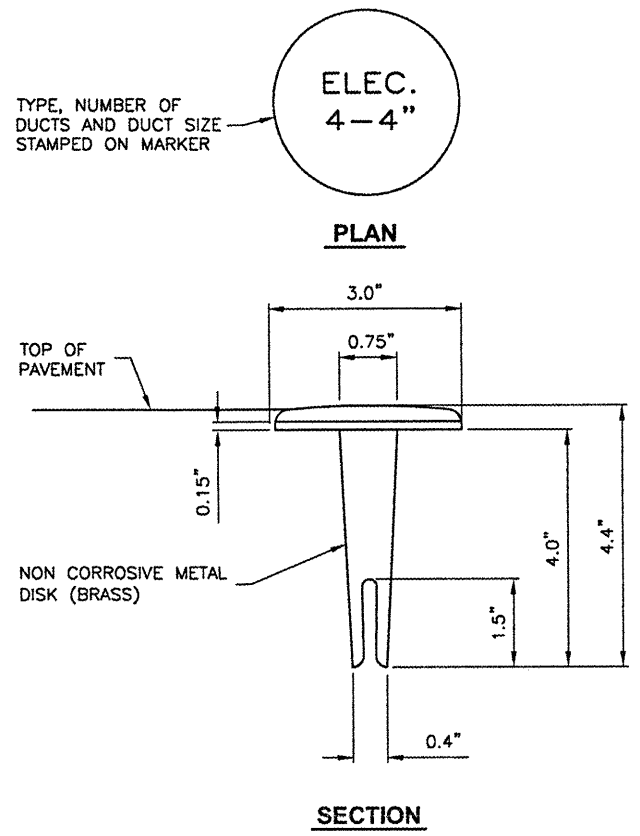
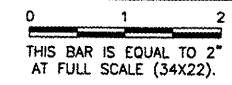


**INFORMATION SIGN LEGEND**  
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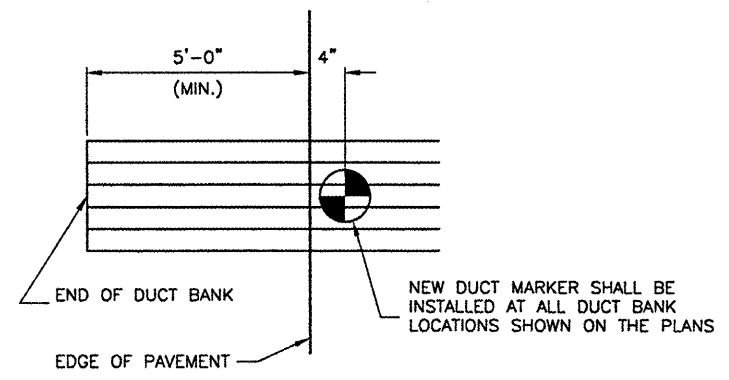
- INFORMATION SIGN NOTE**
1. FINAL SIGN FACE LEGEND SHALL BE DETERMINED BY THE AIRPORT.
  2. SIGN LEGEND SHALL BE BLACK LETTERING ON WHITE BACKGROUND.

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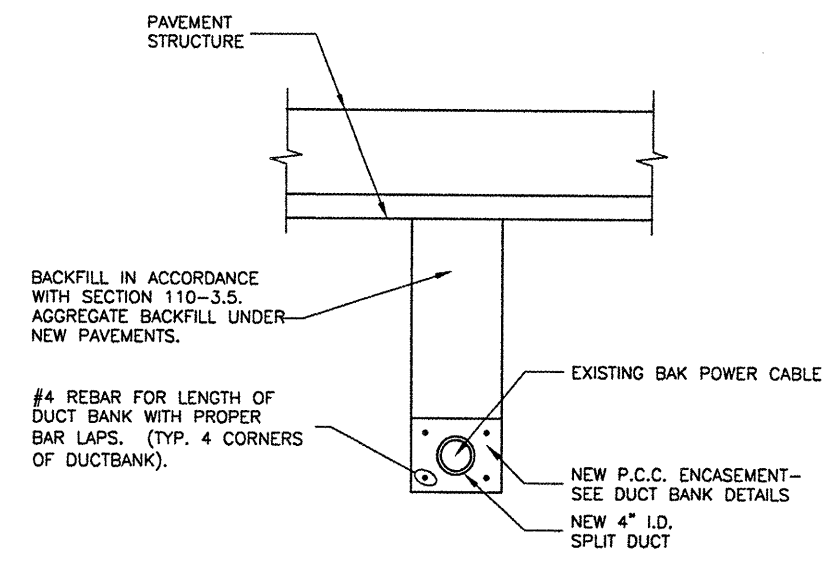


**DUCT MARKER DETAILS**  
N.T.S.




DUCT MARKERS SHALL BE RECESSED AND GROUTED INTO THE PAVEMENTS.


**MARKER PLACEMENT**



**SPLIT DUCT DETAIL**  
N.T.S.

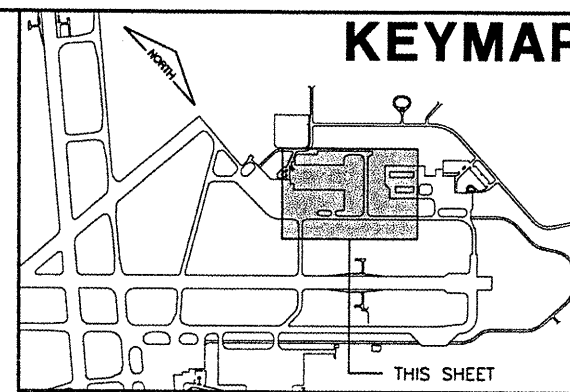
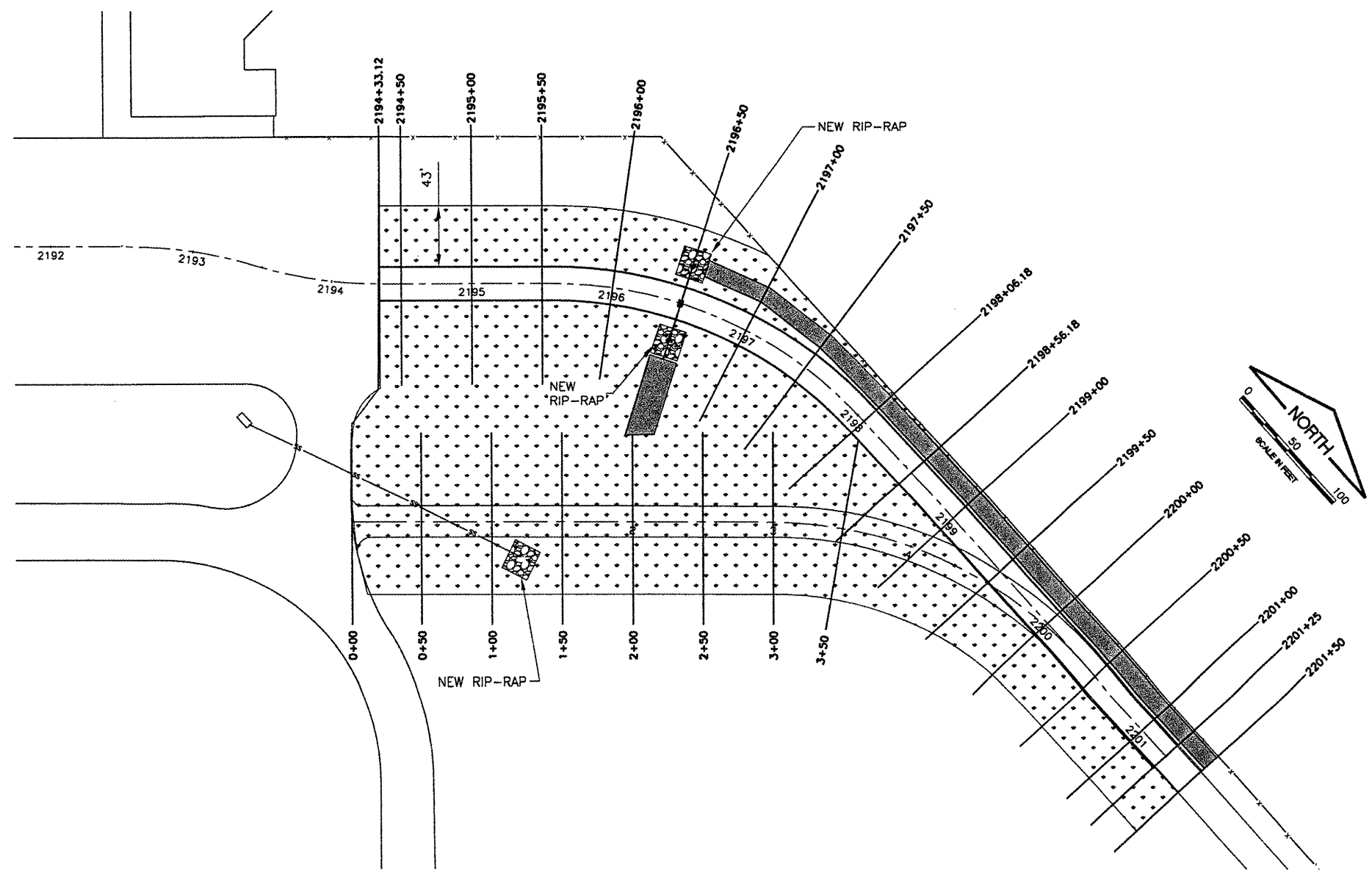
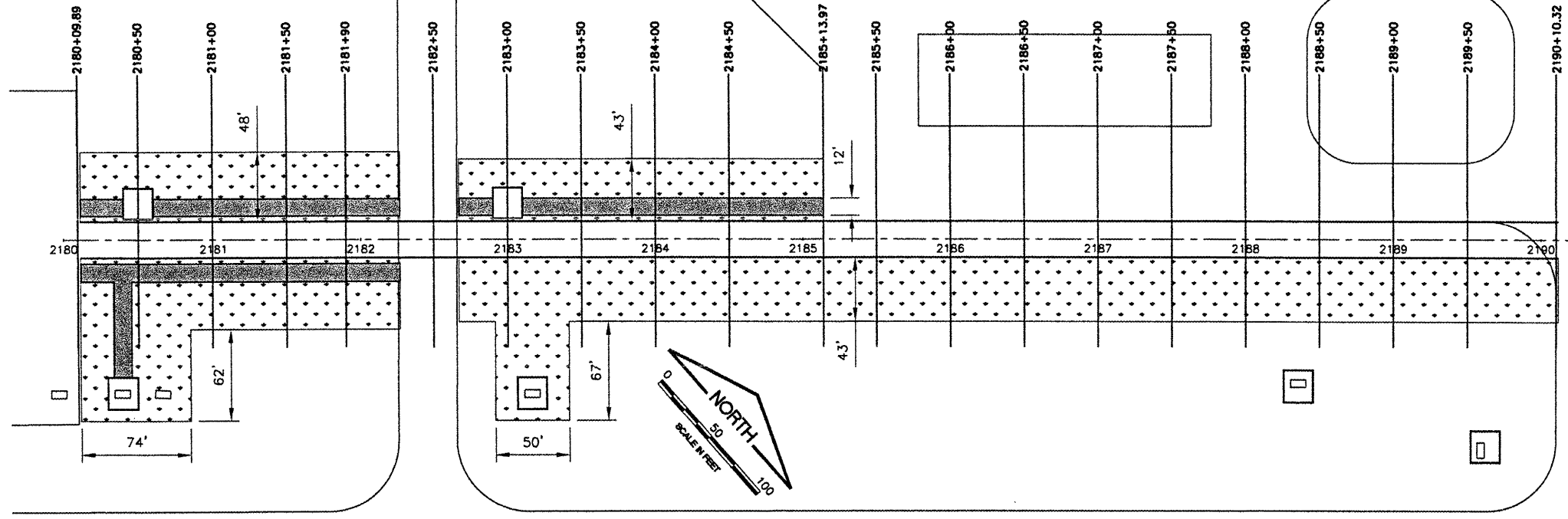
  
**SPRINGFIELD AIRPORT AUTHORITY**  
**ABRAHAM LINCOLN CAPITAL AIRPORT**  
**SPRINGFIELD, IL**

**TXV G WIDENING-PHASE 1 REALIGN NORTH PERIMETER ROAD**  
**DUCT BANK DETAIL**

  
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 License No. 84-000613

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DRAWN BY:	DPA/JLR
CHECKED BY:	<i>CBG</i>
APPROVED BY:	<i>RLV</i>
DATE:	APRIL 25, 2008
JOB No:	07035-09-00
IL PROJ. NO.	SPI-3789
AIP PROJ. NO.	3-17-0096-xx
SHEET	14 OF 22 SHEETS

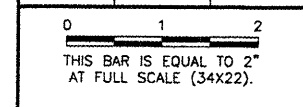





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 PLOT DATE: 4/18/2008 11:00 AM  
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 BASE\_EXISTTOPO  
 BASE\_PROPGEO  
 KEY  
 BASE\_PROPTURF  
 BASE\_PROPDRAIN

**CA006**


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- LEGEND**
- 2188+50 ——— CROSS SECTION
  - — — — — EXISTING FENCELINE
  - [Stippled Box] NEW SEEDING & MULCHING
  - [Solid Black Box] EXCELSIOR BLANKET
  - [Cross-hatched Box] RIP-RAP
  - [Square with X] INLET PROTECTION

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

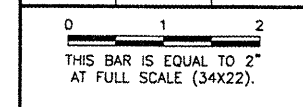
**TTY G WIDENING-PHASE 1 REALIGN NORTH PERIMETER ROAD**  
**INDEX TO CROSS SECTIONS - TURFING PLAN**

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SHEET	15 OF 22 SHEETS

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NUMBER	BY	DATE

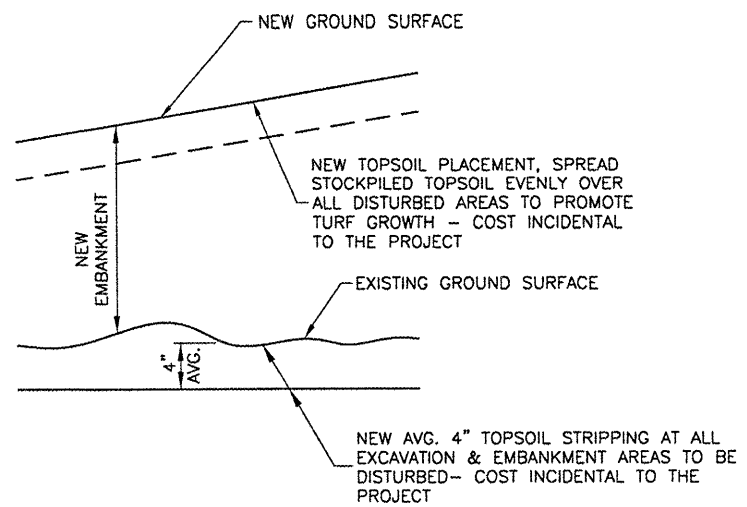


EARTHWORK SUMMARY


Perimeter Road		
STATION	EXCAVATE END AREA (S.F.)	EMBANK END AREA (S.F.)
2180+09.89	20.06	0.00
2180+50	11.89	8.99
2181+00	124.67	0.00
2181+50	50.32	0.00
2181+90	49.66	0.00
2182+50	0.00	0.00
2183+00	29.17	0.90
2183+50	10.77	2.78
2184+00	3.97	16.20
2184+50	13.36	3.06
2185+13.97	7.80	5.68
2185+50	10.93	4.95
2186+00	13.79	2.38
2186+50	18.54	1.08
2187+00	18.37	0.21
2187+50	20.05	0.03
2188+00	22.80	0.00
2188+50	20.62	0.07
2189+00	16.13	0.75
2189+50	19.18	0.33
2190+10.32	20.86	0.00
2194+33.12	19.74	0.00
2194+50	14.20	1.03
2195+00	0.88	7.93
2195+50	0.00	29.14
2196+00	0.00	42.91
2196+50	3.26	47.73
2197+00	0.11	23.15
2197+50	22.22	2.45
2198+06.18	27.20	0.40
2198+56.18	19.97	0.12
2199+00	23.07	2.58
2199+50	17.23	6.61
2200+00	3.93	7.05
2200+50	3.90	6.23
2201+00	2.44	4.00
2201+25	1.77	4.61

EARTHWORK SUMMARY


Road Removal		
STATION	EXCAVATE END AREA (S.F.)	EMBANK END AREA (S.F.)
0+00	0.14	24.32
0+50	6.18	10.74
1+00	39.18	0.00
1+50	58.31	4.39
2+00	71.46	0.76
2+50	49.72	0.00
3+00	33.72	0.00
3+50	23.95	0.09



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

  
 SPRINGFIELD AIRPORT AUTHORITY  
 ABRAHAM LINCOLN CAPITAL AIRPORT  
 SPRINGFIELD, IL

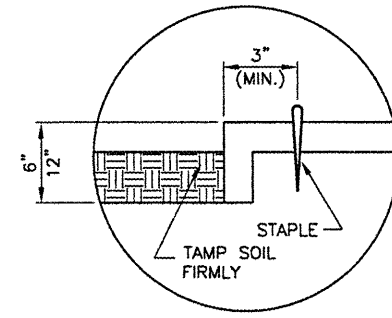
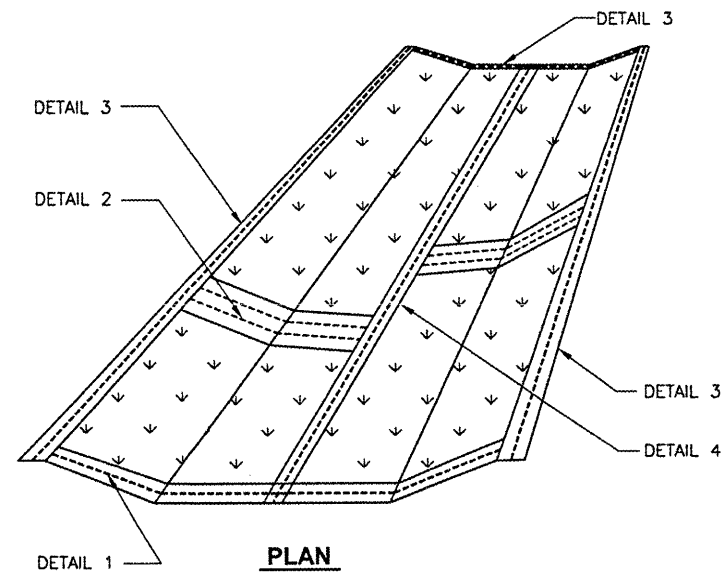
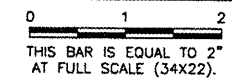
TXV G WIDENING-PHASE 1 REALIGN NORTH PERIMETER ROAD  
 EARTHWORK SUMMARY

  
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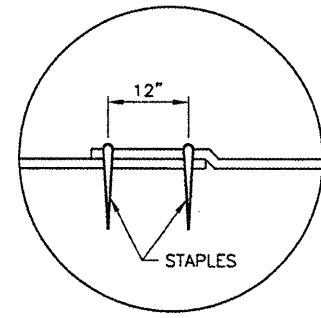
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SHEET	16 OF 22 SHEETS

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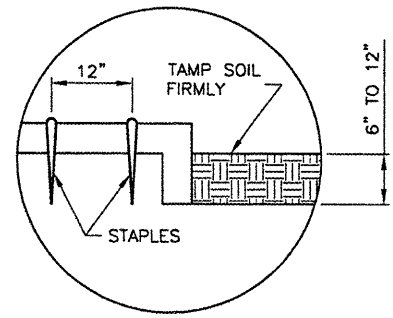
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NUMBER	BY	DATE



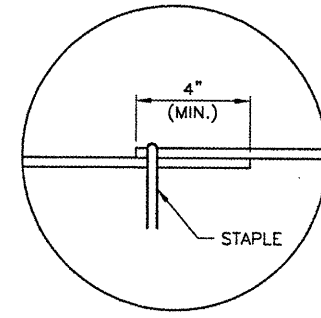
DETAIL 1 - TERMINAL FOLD



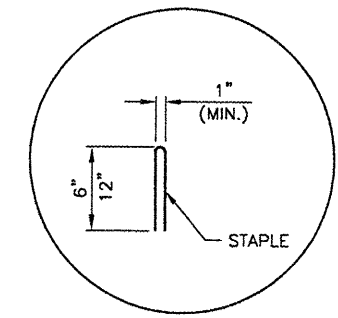
DETAIL 2 - JUNCTION SLOT



DETAIL 3 - ANCHOR SLOT



DETAIL 4 - LAP JOINT

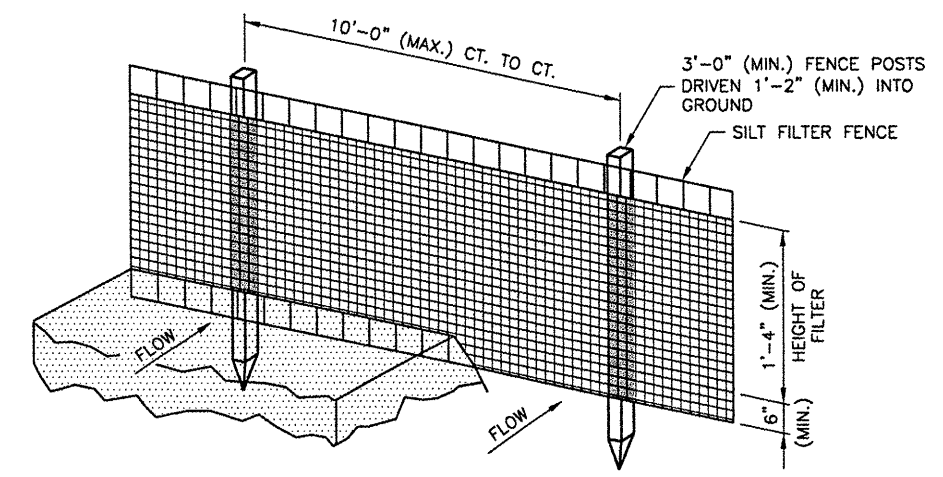


DETAIL 5 - STAPLE DETAIL

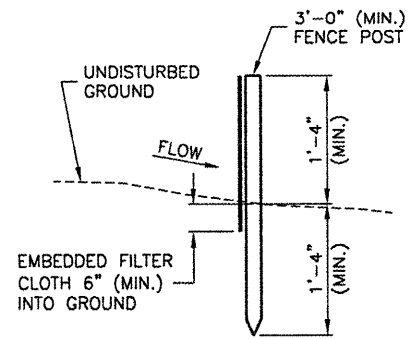
**EXCELSIOR BLANKET DETAILS**  
 N.T.S.

**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.



PERSPECTIVE VIEW

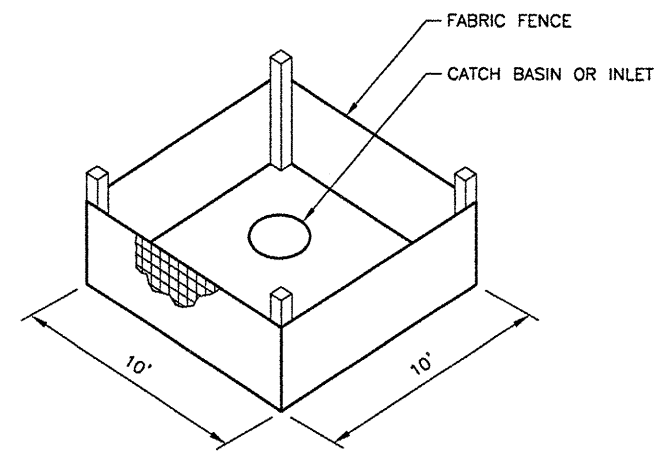


SECTION

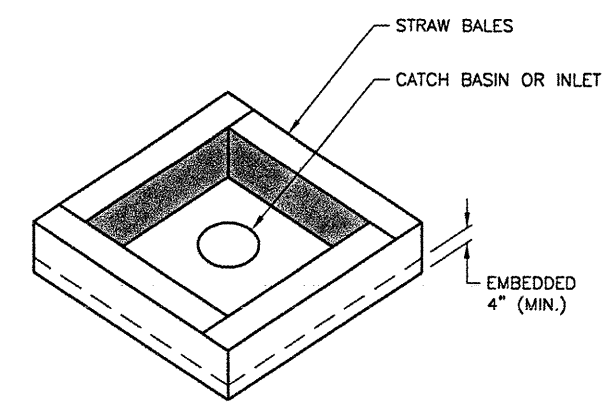
**EROSION CONTROL FABRIC FENCE DETAILS**  
 N.T.S.

**EROSION CONTROL FABRIC FENCE NOTES**

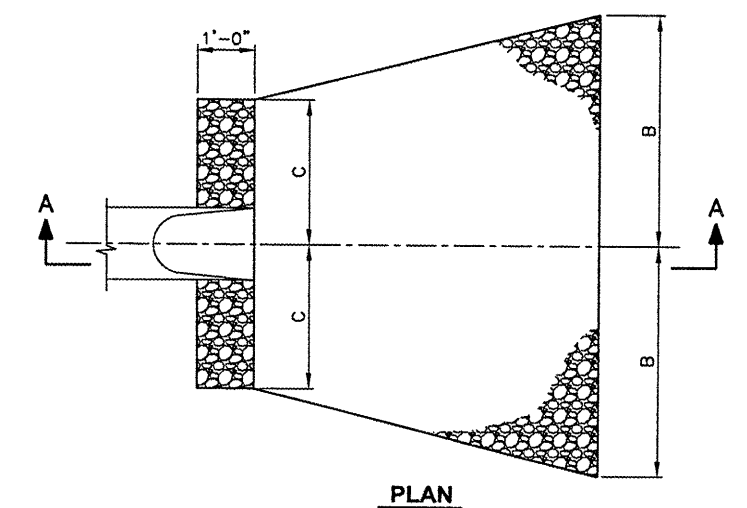
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 2'-0" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 6" MINIMUM AND FOLDED.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



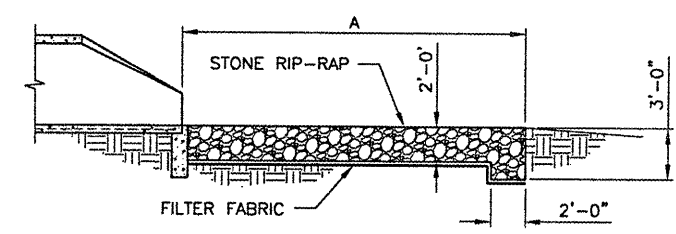
**INLET PROTECTION WITH FABRIC**  
 N.T.S.



**INLET PROTECTION WITH STRAW BALES**  
 N.T.S.



PLAN



SECTION A-A

**RIP-RAP DETAILS**  
 N.T.S.

**RIP-RAP NOTES**

1. THE ENGINEER SHALL DETERMINE THE FINAL RIP-RAP CONFIGURATION IN THE FIELD.
2. PLACE AT EXISTING PIPE LOCATIONS AS DIRECTED BY THE ENGINEER.

**DIMENSIONS - TABLE 1**

INSIDE DIAMETER STORM SEWER (IN.)	OUTLET DIMENSION (FT.)			INLET DIMENSION (FT.)		
	A	B	C	A	B	C
12" THRU 24"	15	9	2	9	6	2



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 SPRINGFIELD, IL

TXV G WIDENING-PHASE 1 REALIGN NORTH PERIMETER ROAD  
 EROSION CONTROL DETAILS

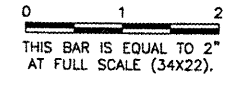
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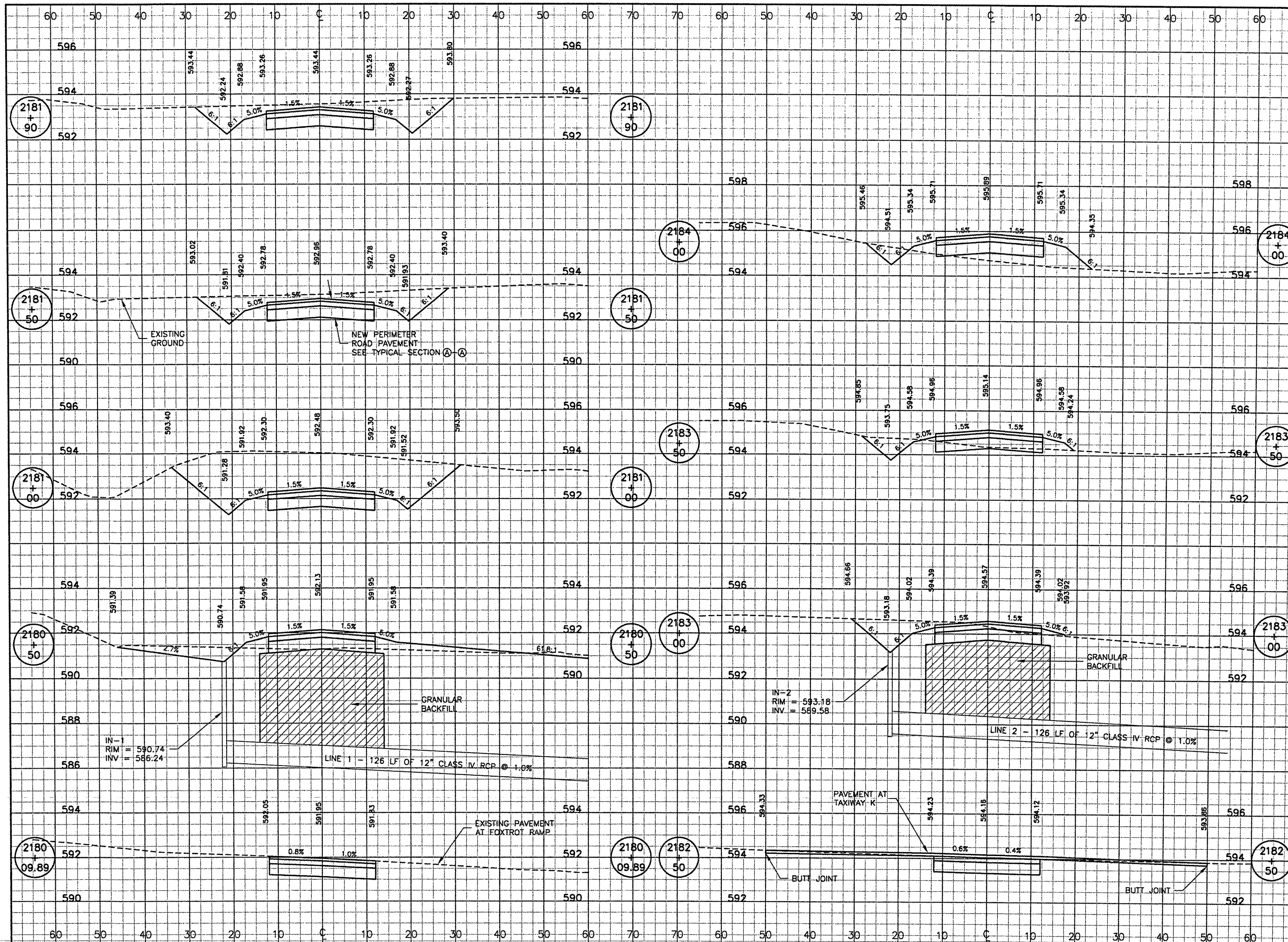
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**SPRINGFIELD, IL**  
  
**TTY G WIDENING-PHASE 1 REALIGN NORTH PERIMETER ROAD**  
**PERIMETER ROAD CROSS SECTIONS**  
**STA. 2180+09.89 TO STA. 2184+00**

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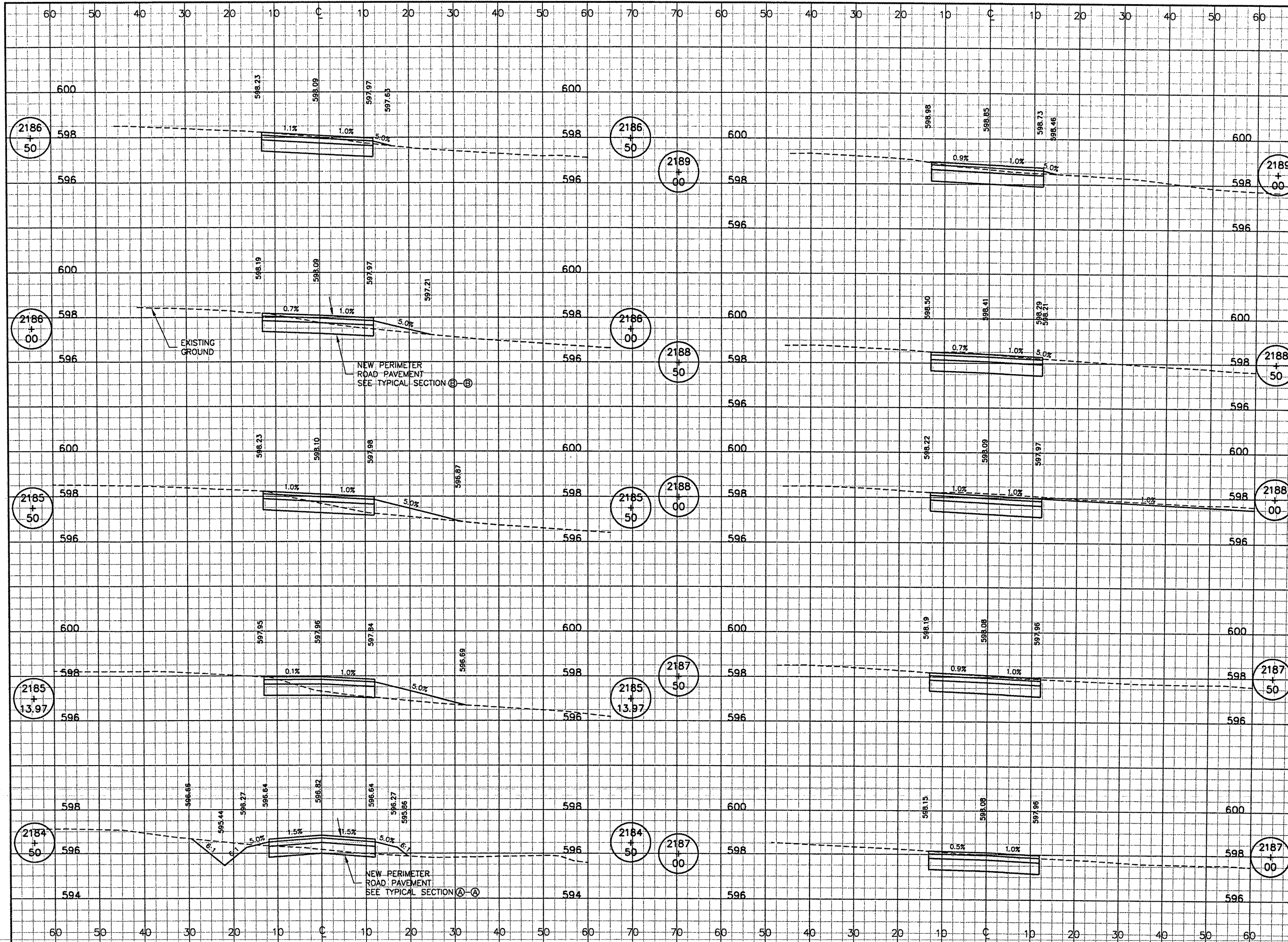
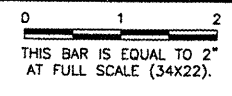
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**PERIMETER ROAD CROSS SECTIONS**  
**STA. 2184+50 TO STA. 2189+00**

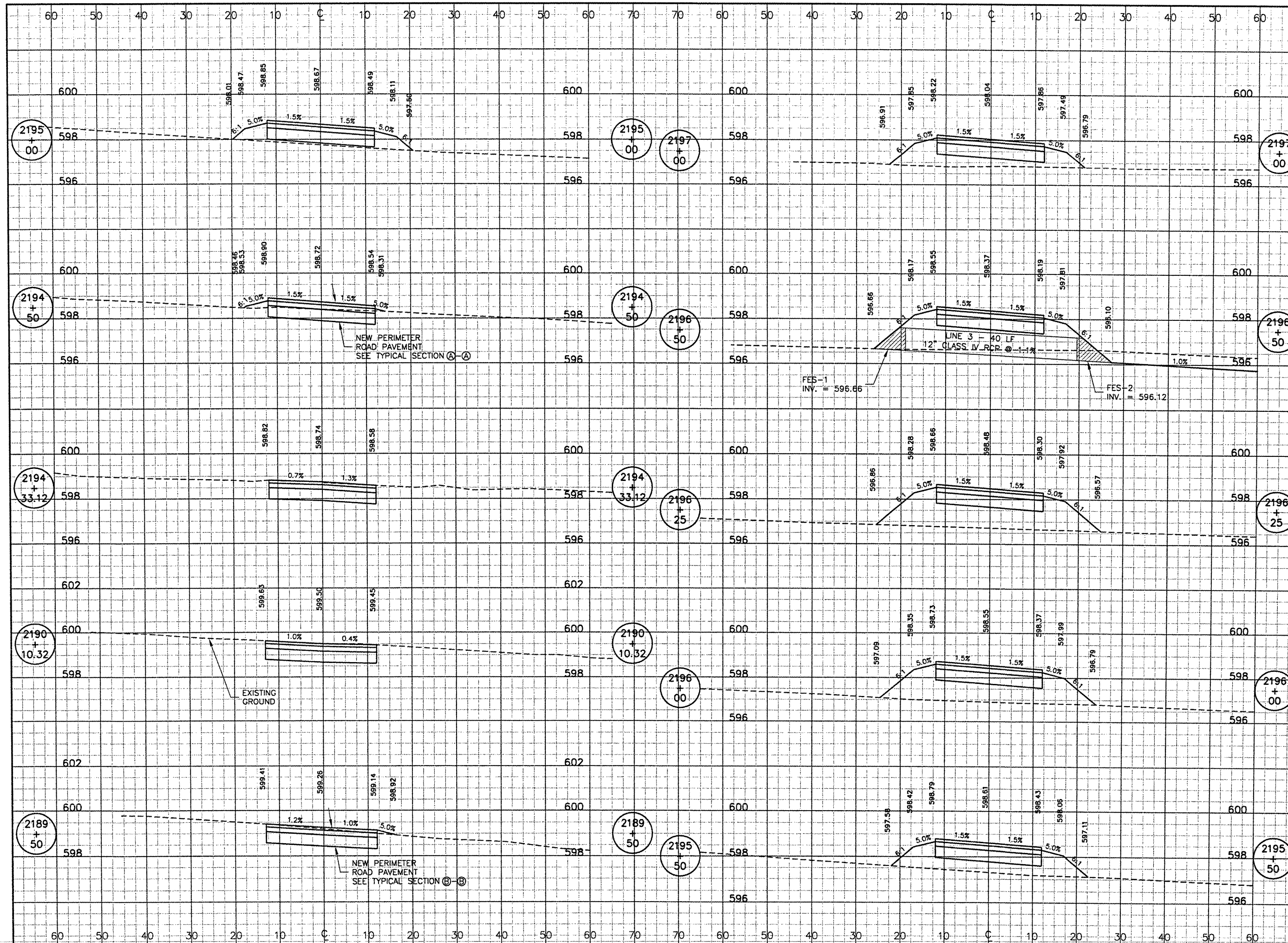
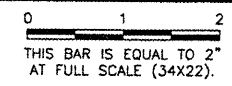
  
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 PERIMETER ROAD CROSS SECTIONS  
 STA. 2189+50 TO STA. 2197+00

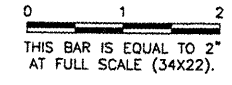
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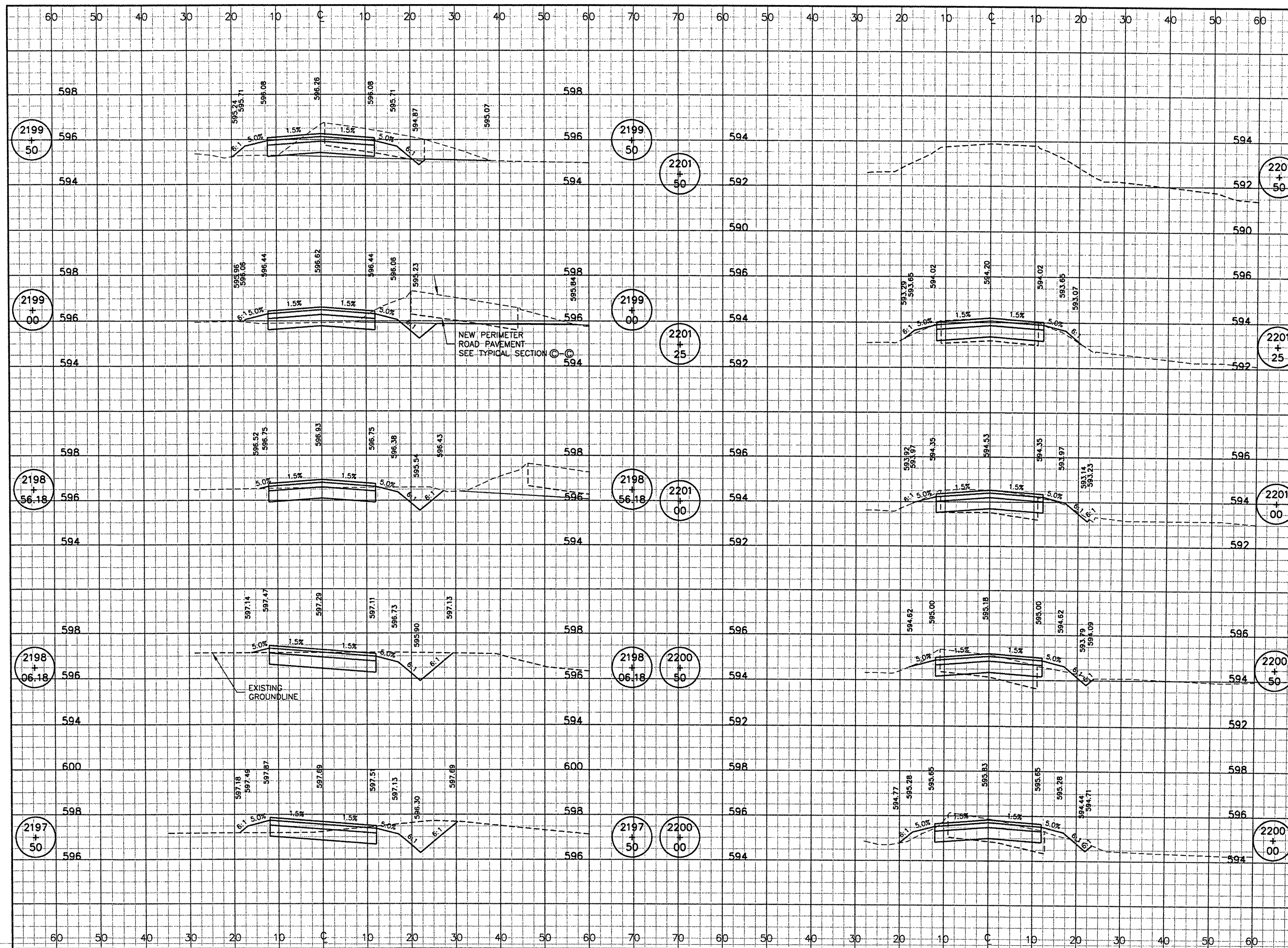
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 PERIMETER ROAD CROSS SECTIONS  
 STA. 2197+50 TO STA. 2201+50

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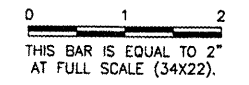
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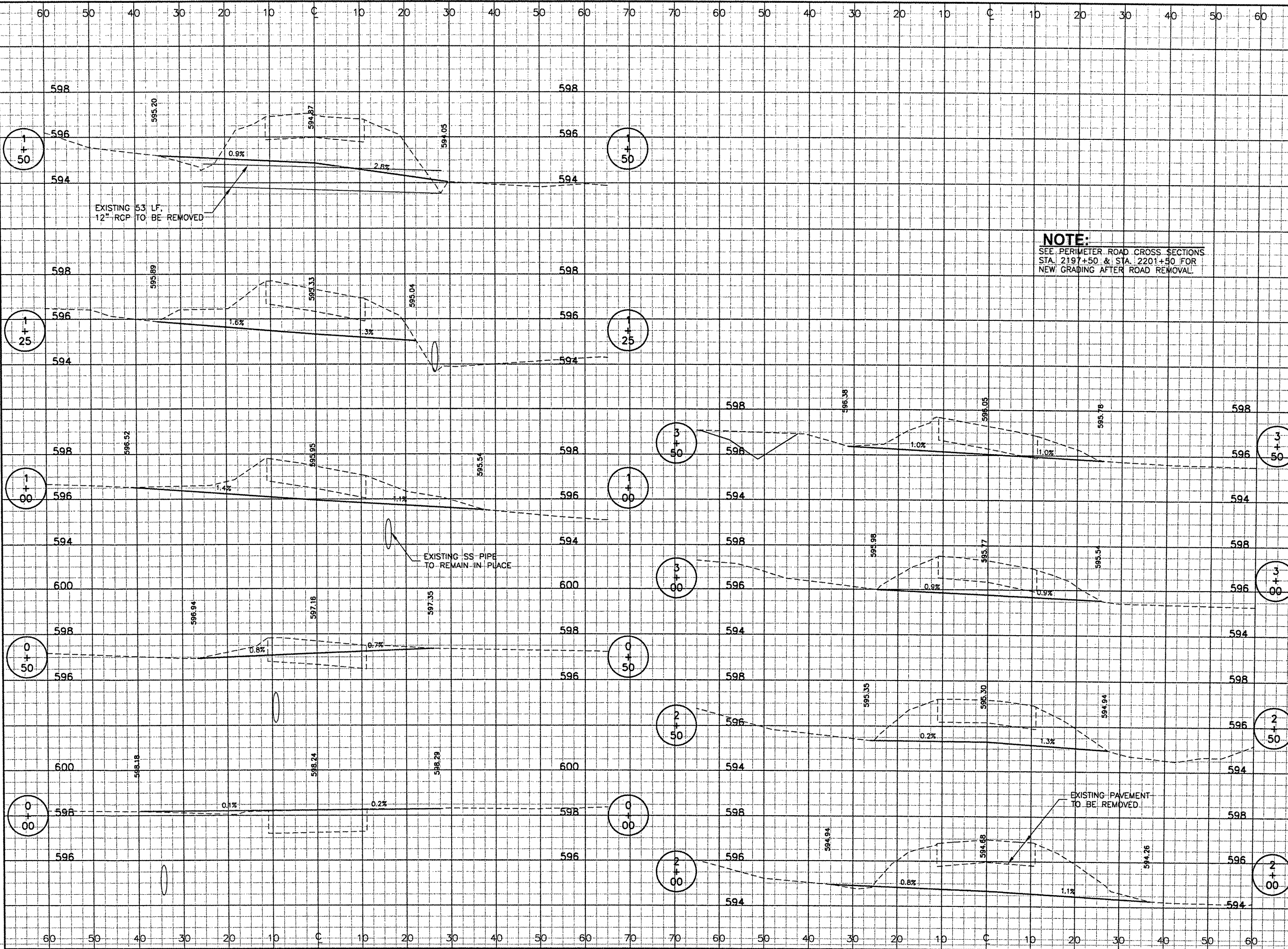


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**NOTE:**  
 SEE PERIMETER ROAD CROSS SECTIONS  
 STA. 2197+50 & STA. 2201+50 FOR  
 NEW GRADING AFTER ROAD REMOVAL.



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 PERIMETER ROAD REMOVAL CROSS SECTIONS  
 STA. 0+00 TO STA. 3+50

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