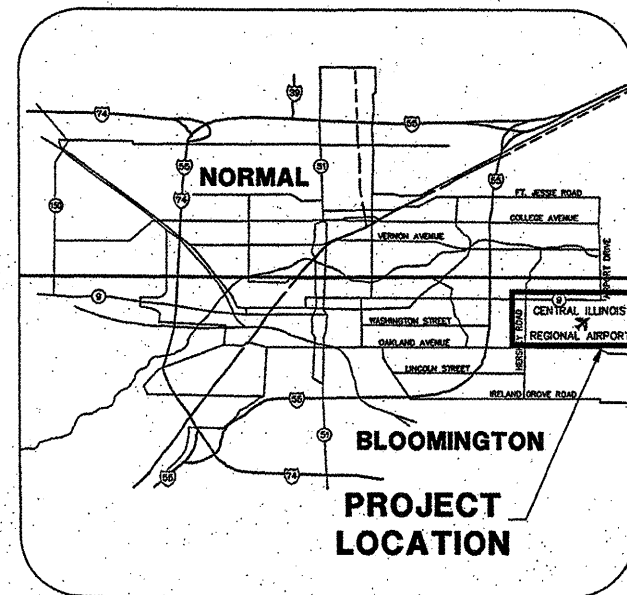


CONSTRUCTION PLANS  
FOR  
**CENTRAL ILLINOIS REGIONAL AIRPORT**  
BLOOMINGTON-NORMAL AIRPORT AUTHORITY  
BLOOMINGTON, ILLINOIS

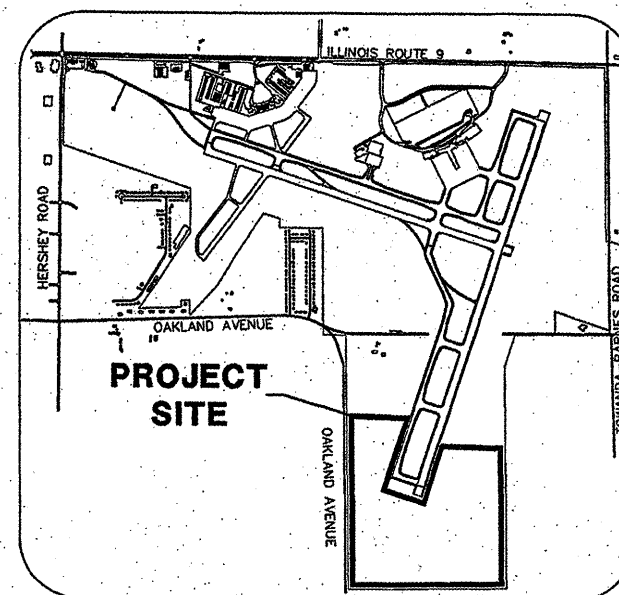
ILLINOIS PROJECT BMI-3793  
A. I. P. PROJECT 3-17-0006-45

CONSTRUCT DRAINAGE IMPROVEMENTS  
LOI PHASE 6

APRIL 1, 2008



LOCATION MAP



SITE PLAN

4/1/08  
  
*Randall L. Vogel*  
EX. 11/20/08

BLOOMINGTON-NORMAL AIRPORT AUTHORITY  
CENTRAL ILLINOIS REGIONAL AIRPORT  
BLOOMINGTON, ILLINOIS  
APPROVED *[Signature]*  
EXECUTIVE DIRECTOR OF AVIATION  
DATE

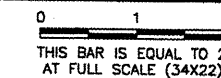
**CMT**  
CRAWFORD MURPHY & TILLY, INC.  
CONSULTING ENGINEERS  
■ SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO  
SUBMITTED BY *[Signature]*  
DATE 4/1/08 2008  
CMT JOB NUMBER 07085-02

CALL J.U.L.I.E.  
BEFORE EXCAVATING  
1-800-892-0123  
TOWNSHIP: 23 NORTH  
RANGE: 3 EAST OF THE 4TH P.M.  
SECTION: 7  
COUNTY: McLEAN  
CIVIL TOWNSHIP: OLD TOWN

SUMMARY OF QUANTITIES			
ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
AR150510	ENGINEER'S FIELD OFFICE	L.S.	1
AR152410	UNCLASSIFIED EXCAVATION	C.Y.	3215
AR800308	EXPLORATORY EXCAVATION	EACH	7
AR156510	SILT FENCE	L.F.	1675
AR156520	INLET PROTECTION	EACH	10
AR209606	CRUSHED AGG. BASE COURSE - 6"	S.Y.	680
AR501508	8" PCC PAVEMENT	S.Y.	680
AR701512	12" RCP, CLASS IV	L.F.	630
AR701518	18" RCP, CLASS IV	L.F.	1525
AR701900	REMOVE PIPE	L.F.	20
AR800320	PLUG PIPE	EACH	10
AR751412	INLET-TYPE B	EACH	2
AR751540	MANHOLE 4'	EACH	7
AR751900	REMOVE INLET	EACH	2
AR751903	REMOVE MANHOLE	EACH	1
AR752412	PRECAST REINFORCED CONC. FES 12"	EACH	1
AR754610	PAVED DITCH	L.F.	3000
AR901510	SEEDING	ACRE	15
AR908510	MULCHING	ACRE	15
AR908520	EXCELSIOR BLANKET	S.Y.	1000


INDEX TO SHEETS	
NUMBER	TITLE
01	COVER SHEET
02	INDEX TO SHEETS & SUMMARY OF QUANTITIES
03	AIRPORT SITE PLAN
04	CONSTRUCTION ACTIVITY PLAN PHASE 1
05	CONSTRUCTION ACTIVITY PLAN PHASE 2
06	DRAINAGE STRUCTURES SCHEDULES
07	EXISTING CONDITIONS & REMOVALS 1
08	EXISTING CONDITIONS & REMOVALS 2
09	EXISTING CONDITIONS & REMOVALS 3
10	PROPOSED IMPROVEMENTS
11	TYPICAL SECTIONS 1
12	TYPICAL SECTIONS 2
13	STORM SEWER PROFILES
14	DITCH 1 GRADING PLAN & PROFILE STA. 0+00 TO STA. 12+00
15	DITCH 2 GRADING PLAN & PROFILE STA. 20+00 TO STA. 27+85
16	DITCH 3 GRADING PLAN & PROFILE STA. 30+00 TO STA. 34+05
17	DITCH 4 GRADING PLAN & PROFILE STA. 40+00 TO STA. 43+45
18	DITCH 5 GRADING PLAN & PROFILE STA. 50+00 TO STA. 52+34.50
19	BERM GRADING PLAN & PROFILE 1 STA. 85+15 TO STA. 98+00
20	BERM GRADING PLAN & PROFILE 2 STA. 98+00 TO STA. 103+50
21	TAXIWAY G GRADING PLAN
22	INLET DETAILS
23	MANHOLE DETAILS
24	DRAINAGE DETAILS 1
25	DRAINAGE DETAILS 2
26	EROSION CONTROL & TURFING PLAN
27	EROSION CONTROL DETAILS
28	INDEX TO CROSS SECTIONS
29	EARTHWORK SUMMARY
30	DITCH 1 CROSS SECTIONS 1 STA. 0+00 TO STA. 3+00
31	DITCH 1 CROSS SECTIONS 2 STA. 3+50 TO STA. 6+50
32	DITCH 1 CROSS SECTIONS 3 STA. 7+00 TO STA. 10+00
33	DITCH 1 CROSS SECTIONS 4 STA. 10+50 TO STA. 12+00
34	DITCH 2 CROSS SECTIONS 1 STA. 20+00 TO STA. 23+00
35	DITCH 2 CROSS SECTIONS 2 STA. 23+50 TO STA. 26+50
36	DITCH 2 CROSS SECTIONS 3 STA. 27+00 TO STA. 27+85
37	DITCH 3 CROSS SECTIONS 1 STA. 30+00 TO STA. 33+00
38	DITCH 3 CROSS SECTIONS 2 STA. 33+50 TO STA. 34+05.74
39	DITCH 4 CROSS SECTIONS STA. 40+00 TO STA. 43+45.22
40	DITCH 5 CROSS SECTIONS STA. 50+00 TO STA. 52+49.50
41	BERM CROSS SECTIONS 1 STA. 85+15.10 TO STA. 90+50
42	BERM CROSS SECTIONS 2 STA. 91+00 TO STA. 96+50
43	BERM CROSS SECTIONS 3 STA. 97+00 TO STA. 101+50
44	BERM CROSS SECTIONS 4 STA. 102+00 TO STA. 103+50
45	CONNECTING TAXIWAY G CROSS SECTIONS STA. 2+50 TO STA. 4+50
46	RUNWAY 2/20 CROSS SECTIONS STA. 745+00 TO STA. 746+50

REVISIONS		
NUMBER	BY	DATE



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

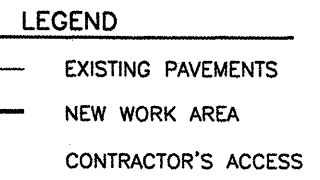
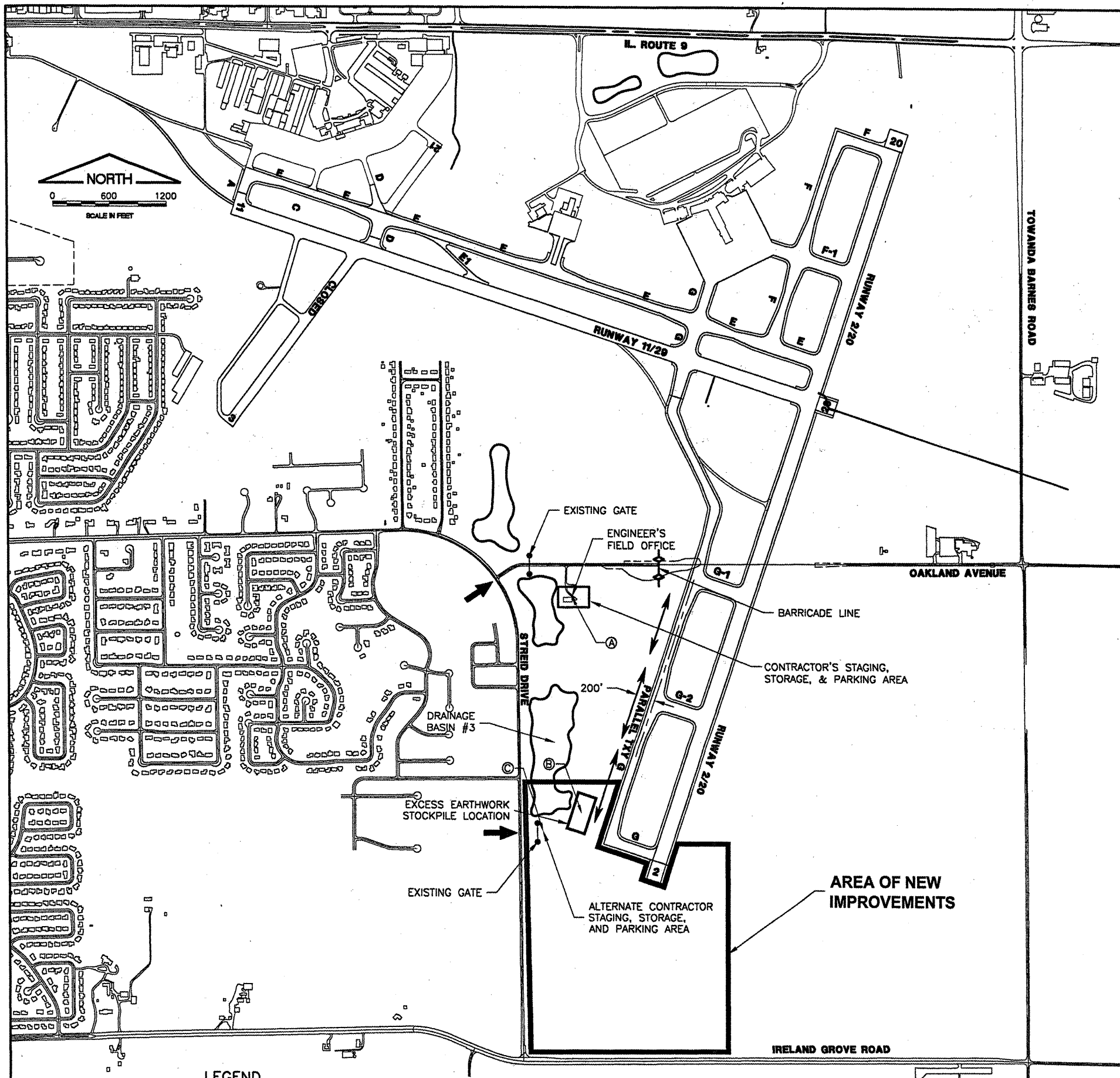
**CONSTRUCT DRAINAGE IMPROVEMENTS  
 INDEX TO SHEETS & SUMMARY OF QUANTITIES**


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 CONSULTING ENGINEERS  
 License No. BA-000613

DESIGN BY:	RLV
DRAWN BY:	DPA
CHECKED BY:	RLV
APPROVED BY:	RLV
DATE:	04/01/2008
JOB No:	0708502
IL PROJ NO.	BMI-3793
AIP PROJ NO.	3-17-0006-45
SHEET	02 OF 46 SHEETS

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

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



CRITICAL POINTS			
POINT	LATITUDE	LONGITUDE	ELEVATION
(A)	40° 28' 18.61"	88° 55' 09.89"	853.55
(B)	40° 27' 55.70"	88° 55' 08.48"	842.90
(C)	40° 27' 53.76"	88° 55' 13.78"	836.80

**GENERAL NOTES**

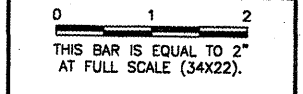
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 FILE: SITE.dwg  
 UPDATE BY: Kristy Brod  
 PLOT DATE: 4/14/2008 9:41 AM  
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 BASE\_EXISTGEO  
 tbinfo

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

**REVISIONS**

NUMBER	BY	DATE



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

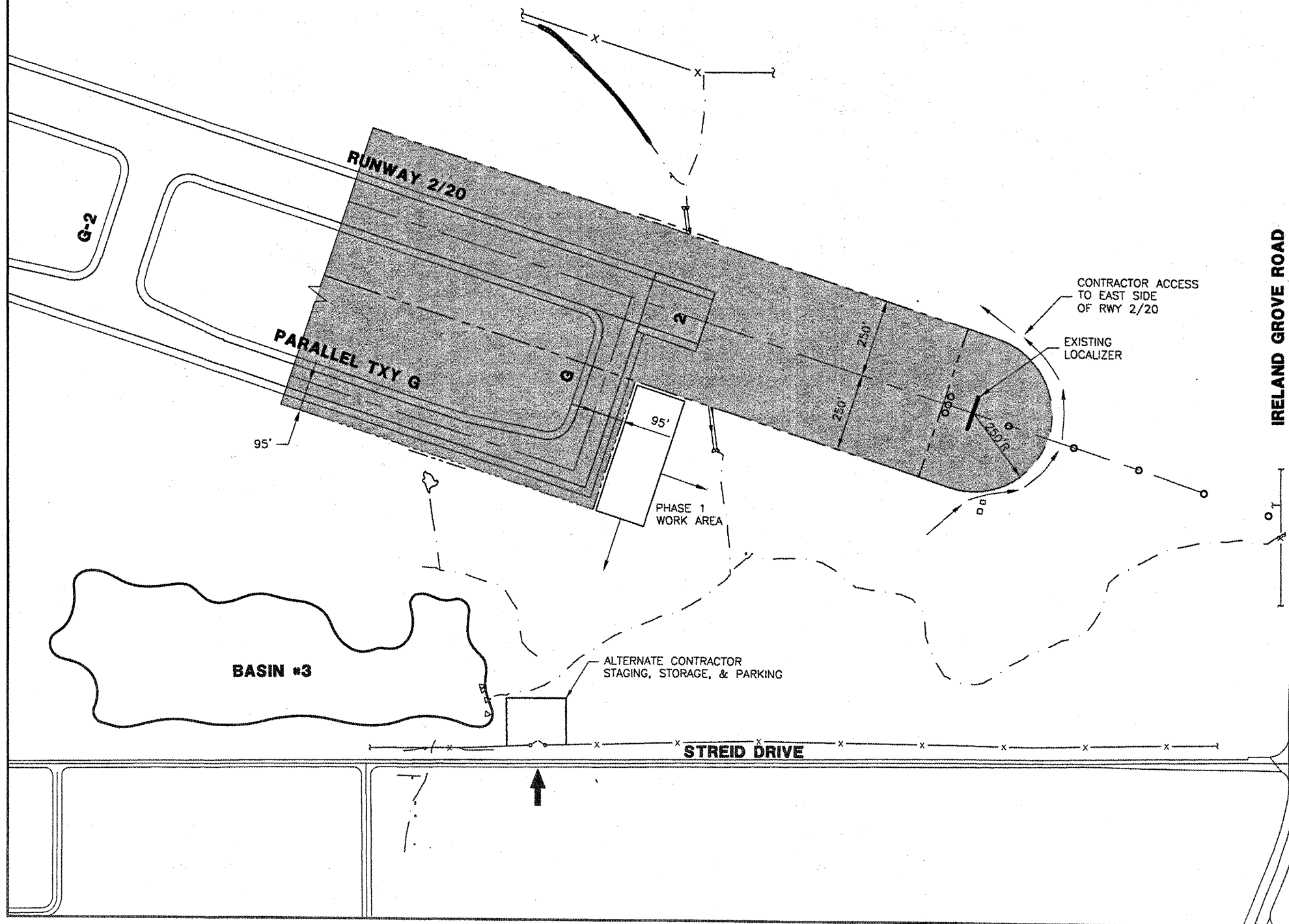
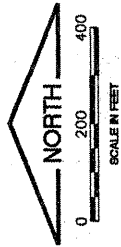
**CONSTRUCT DRAINAGE IMPROVEMENTS  
 AIRPORT SITE PLAN**

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DESIGN BY:	RLV
DRAWN BY:	DPA
CHECKED BY:	RLV
APPROVED BY:	RLV
DATE:	04/01/2008
JOB No:	0708502
IL PROJ NO.	BMI-3793
AIP PROJ NO.	3-17-0006-45
SHEET	03 OF 46 SHEETS

GROUND CONTROL FREQUENCY - 121.65  
 AIR CONTROL FREQUENCY - 124.60  
 MAXIMUM EQUIPMENT HEIGHT - 25'

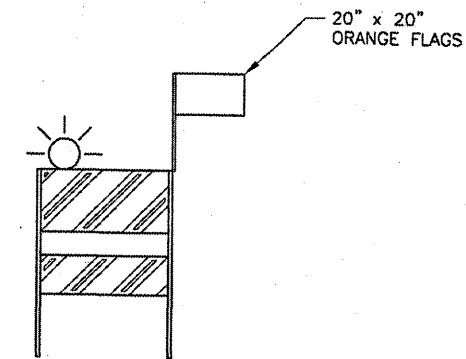


**CONSTRUCTION ACTIVITY PLAN NOTES - PHASE 1**

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. FOR ALL PHASES OF WORK, THE CONTRACTOR SHALL RETURN THE EQUIPMENT TO THE STAGING & STORAGE AREA UNLESS PERMISSION IS GIVEN BY THE AIRPORT TO DO OTHERWISE.

**LEGEND**

- OFF LIMITS TO CONTRACTOR PERSONNEL AND EQUIPMENT
- CONSTRUCTION SETBACK LINE
- BARRICADES IDOT TYPE 1 WITH FLASHING RED LIGHTS & 20"x20" ORANGE FLAGS @ 20' SPACING
- APPROACH LIGHT
- EXISTING DITCHLINE
- RUNWAY & TAXIWAY SAFETY AREA
- CONTRACTOR ACCESS ROUTE

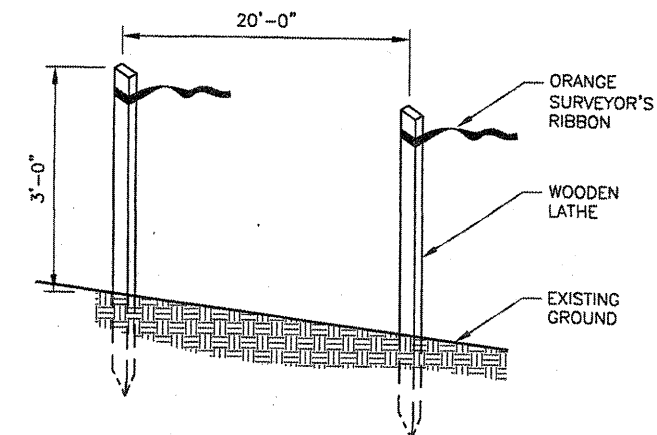


**FLASHER BARRICADE DETAIL**

N.T.S.

**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.



**CONSTRUCTION SETBACK LINE DETAIL**

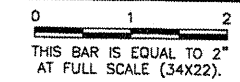
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 BASE\_EXISTGEO  
 BASE\_AERIAL  
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NUMBER	BY	DATE



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

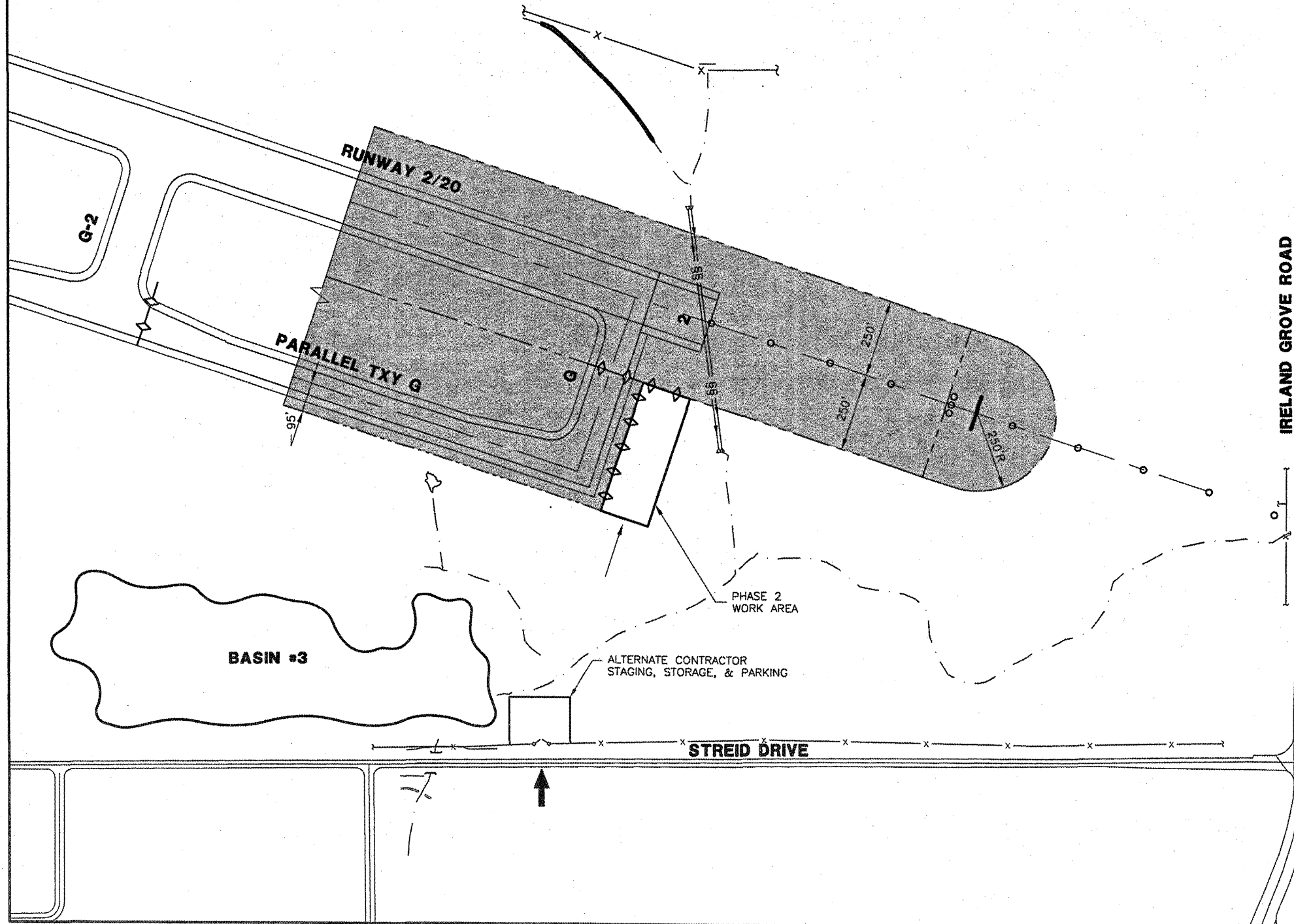
**CONSTRUCT DRAINAGE IMPROVEMENTS  
 CONSTRUCTION ACTIVITY PLAN  
 PHASE 1**

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 CHECKED BY: *REN*  
 APPROVED BY: *REN*  
 DATE: 04/01/2008  
 JOB No: 0708502

IL PROJ NO. BMI-3793  
 AIP PROJ NO. 3-17-0006-45





**CONSTRUCTION ACTIVITY PLAN NOTES - PHASE 2**

1. THE CONTRACTOR SHALL PLACE ALL BARRICADES AS SHOWN PRIOR TO STARTING WORK ON THIS PHASE.
2. THE AIRPORT WILL REQUIRE A 7 CALENDAR DAY NOTICE FROM THE CONTRACTOR PRIOR TO INITIATING THIS PHASE TO COORDINATE WITH THE TENANTS.
3. THE CONTRACTOR MAY CONTINUE TO WORK IN THE PHASE 1 WORK AREA PROVIDED THAT IT DOES NOT IMPACT THE PROGRESS OF THE PHASE 2 WORK.
4. TAXIWAY G SHALL BE CLOSED WHEN WORK IS REQUIRED WITHIN 95' OF THE TAXIWAY CENTERLINE.
5. THE CONTRACTOR WILL BE ALLOWED TO CLOSE TAXIWAY G FOR (3) 12 HOUR DAILY CLOSURES TO COMPLETE THE WORK IN THE PHASE 2 WORK AREA.
6. AT THE END OF EACH DAILY CLOSURE, THE WORK AREA SHALL BE CLEANED, SAFETY AREAS SMOOTHLY GRADED AND PAVEMENTS RE-OPENED TO AIRCRAFT TRAFFIC.

**LEGEND**

- OFF LIMITS TO CONTRACTOR PERSONNEL AND EQUIPMENT
- CONSTRUCTION SETBACK LINE
- BARRICADES IDOT TYPE 1 WITH FLASHING RED LIGHTS & 20"x20" ORANGE FLAGS @ 20' SPACING
- APPROACH LIGHT
- EXISTING DITCHLINE
- RUNWAY & TAXIWAY SAFETY AREA
- CONTRACTOR ACCESS ROUTE

**BL063**

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**REVISIONS**

NUMBER	BY	DATE

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

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

**CONSTRUCT DRAINAGE IMPROVEMENTS  
 CONSTRUCTION ACTIVITY PLAN  
 PHASE 2**

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 CHECKED BY: *RLV*  
 APPROVED BY: *RLV*  
 DATE: 04/01/2008  
 JOB No: 0708502

IL PROJ NO. BMI-3793  
 AIP PROJ NO. 3-17-0006-45

SHEET 05 OF 48 SHEETS

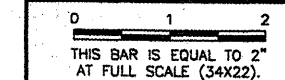
DRAINAGE STRUCTURES SCHEDULE table with columns: STRUCTURE NUMBER, STRUCTURE TYPE, RIM ELEVATION (ft), EXISTING INVERT ELEVATION (ft), NEW RIM ELEVATION (ft), NEW INVERT ELEVATION (ft), NORTHING, EASTING, COMMENTS. Includes structures 10 through 630.

DRAINAGE LINES SCHEDULE table with columns: LINE NUMBER, TYPE, SIZE, UPSTREAM STRUCTURE, DOWNSTREAM STRUCTURE, LENGTH (ft), UPSTREAM INVERT, DOWNSTREAM INVERT, SLOPE, COMMENTS. Includes lines L40 through L635.

EXPLORATORY EXCAVATION SCHEDULE table with columns: NUMBER, DESCRIPTION. Lists items 160 through 565.

NOTE:  
1. CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATION PRIOR TO THE INSTALLATION OF STORM SEWER AT THE DESIGNATED LOCATIONS ON THE PLAN SHEETS.

REVISIONS table with columns: NUMBER, BY, DATE.

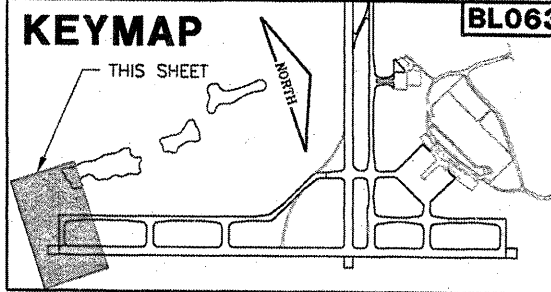
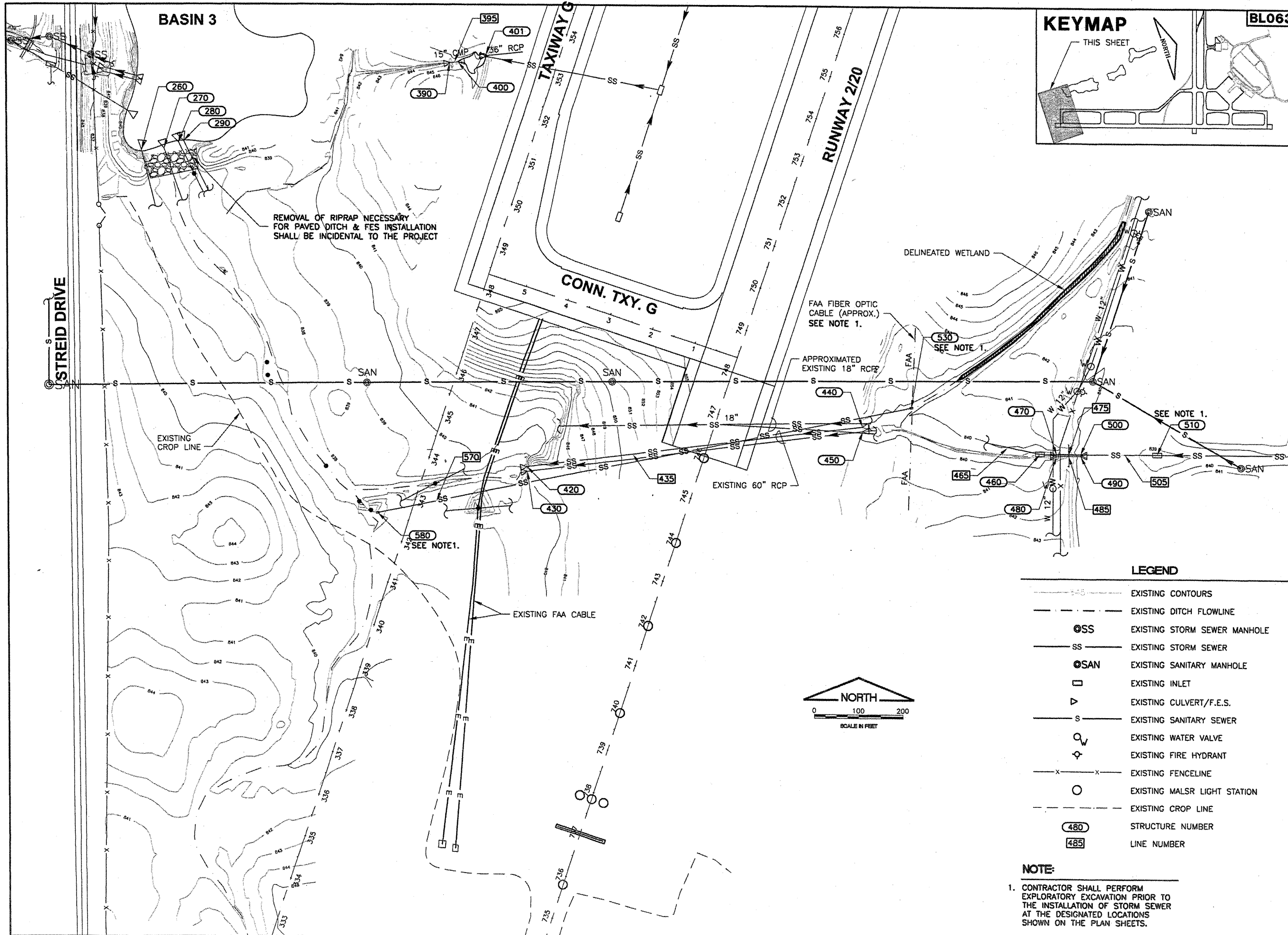


BLOOMINGTON-NORMAL AIRPORT AUTHORITY  
CENTRAL ILLINOIS REGIONAL AIRPORT  
BLOOMINGTON, ILLINOIS  
CONSTRUCT DRAINAGE IMPROVEMENTS  
DRAINAGE STRUCTURES SCHEDULES

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DRAWN BY: DPA  
CHECKED BY: RLW  
APPROVED BY: RLW  
DATE: 04/01/2008  
JOB No: 0708502

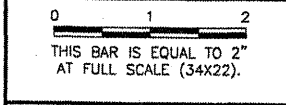
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AIP PROJ NO. 3-17-0006-45



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 KEY  
 BASE\_CONTOURS30SCALE  
 tbinfo

REVISIONS		
NUMBER	BY	DATE



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

**CONSTRUCT DRAINAGE IMPROVEMENTS  
 EXISTING CONDITIONS & REMOVALS 1**

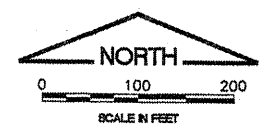
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DRAWN BY:	DPA
CHECKED BY:	RLV
APPROVED BY:	RLV
DATE:	04/01/2008
JOB No:	0708502
IL PROJ NO.	BMI-3793
AIP PROJ NO.	3-17-0006-45
SHEET 07 OF 46 SHEETS	

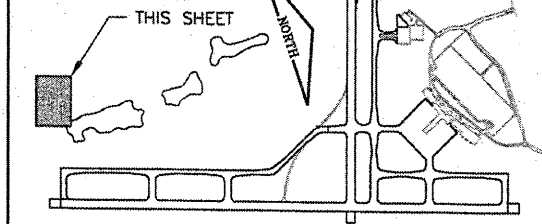
**LEGEND**

- EXISTING CONTOURS
- - - EXISTING DITCH FLOWLINE
- ⊙SS EXISTING STORM SEWER MANHOLE
- SS EXISTING STORM SEWER
- ⊙SAN EXISTING SANITARY MANHOLE
- EXISTING INLET
- ▽ EXISTING CULVERT/F.E.S.
- S EXISTING SANITARY SEWER
- ⊕ EXISTING WATER VALVE
- ⊕ EXISTING FIRE HYDRANT
- x-x- EXISTING FENCELINE
- EXISTING MALS/LIGHT STATION
- - - EXISTING CROP LINE
- (480) STRUCTURE NUMBER
- (485) LINE NUMBER



**NOTE:**  
 1. CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATION PRIOR TO THE INSTALLATION OF STORM SEWER AT THE DESIGNATED LOCATIONS SHOWN ON THE PLAN SHEETS.

**KEYMAP**

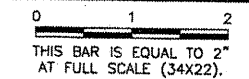


**BL063**

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 POND LOCATIONS  
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 CL\_STA  
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 BASE\_CONTOURS30SCALE  
 KEY  
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 tbinfo

**REVISIONS**

NUMBER	BY	DATE



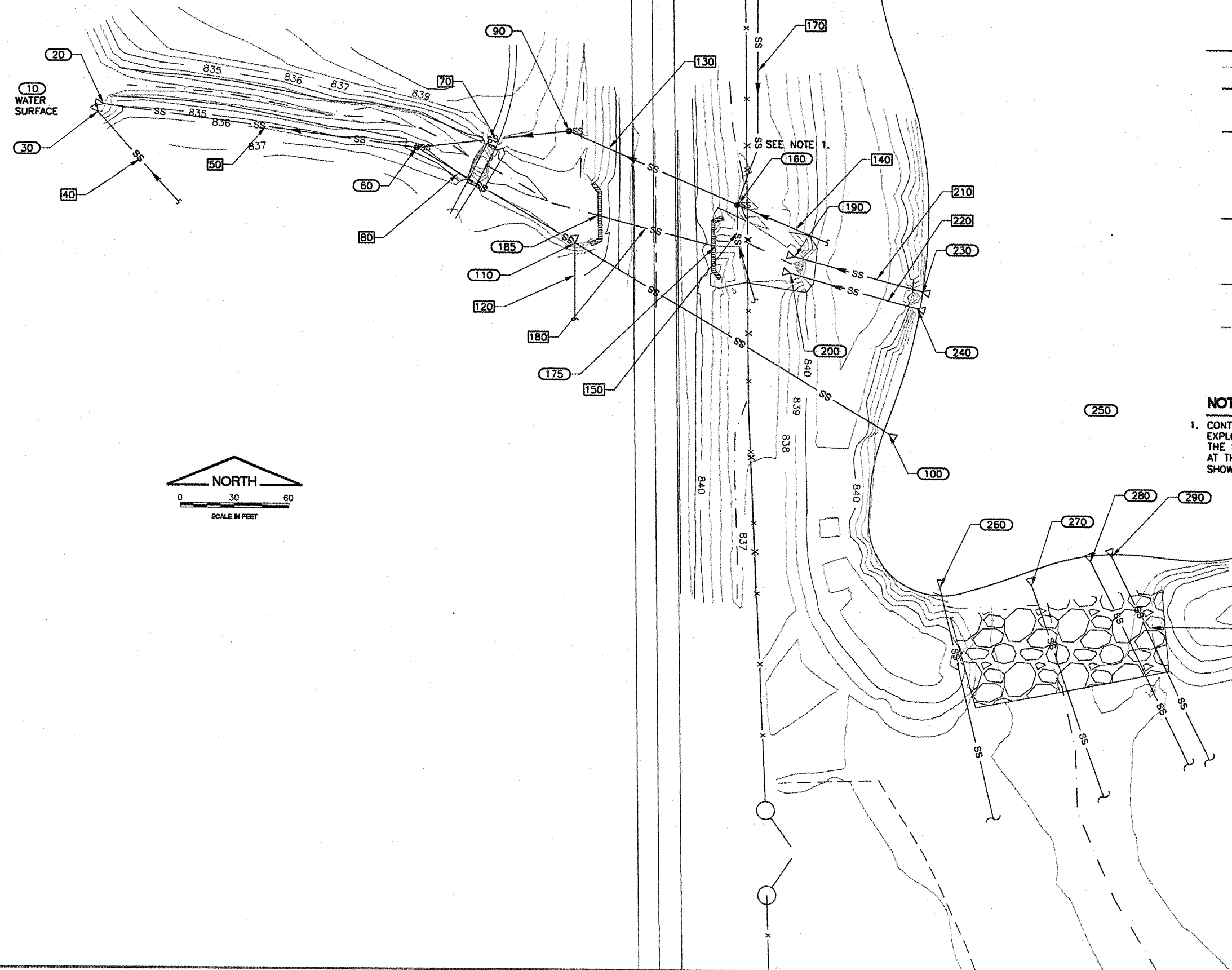
**LEGEND**

- 845 — EXISTING CONTOURS
- - - EXISTING DITCH FLOWLINE
- ⊙SS EXISTING STORM SEWER MANHOLE
- SS EXISTING STORM SEWER
- ⊙SAN EXISTING SANITARY MANHOLE
- EXISTING INLET
- ▽ EXISTING CULVERT/F.E.S.
- S - EXISTING SANITARY SEWER
- ⊕ EXISTING WATER VALVE
- ⊕ EXISTING FIRE HYDRANT
- x - x - EXISTING FENCELINE
- EXISTING MALS R LIGHT STATION
- - - EXISTING CROP LINE
- (480) STRUCTURE NUMBER
- (485) LINE NUMBER

**NOTE:**

1. CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATION PRIOR TO THE INSTALLATION OF STORM SEWER AT THE DESIGNATED LOCATIONS SHOWN ON THE PLAN SHEETS.

REMOVAL OF RIPRAP NECESSARY FOR PAVED DITCH & FES INSTALLATION SHALL BE INCIDENTAL TO THE PROJECT



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

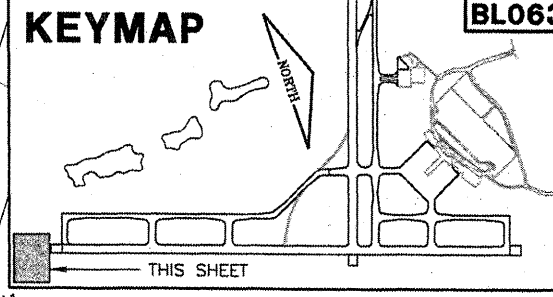
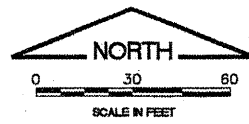
**CONSTRUCT DRAINAGE IMPROVEMENTS  
 EXISTING CONDITIONS & REMOVALS 2**

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 APPROVED BY: *RLV*  
 DATE: 04/01/2008  
 JOB No: 0708502

IL PROJ NO. BMI-3793  
 AIP PROJ NO. 3-17-0006-45

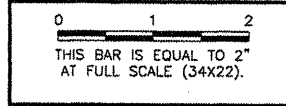




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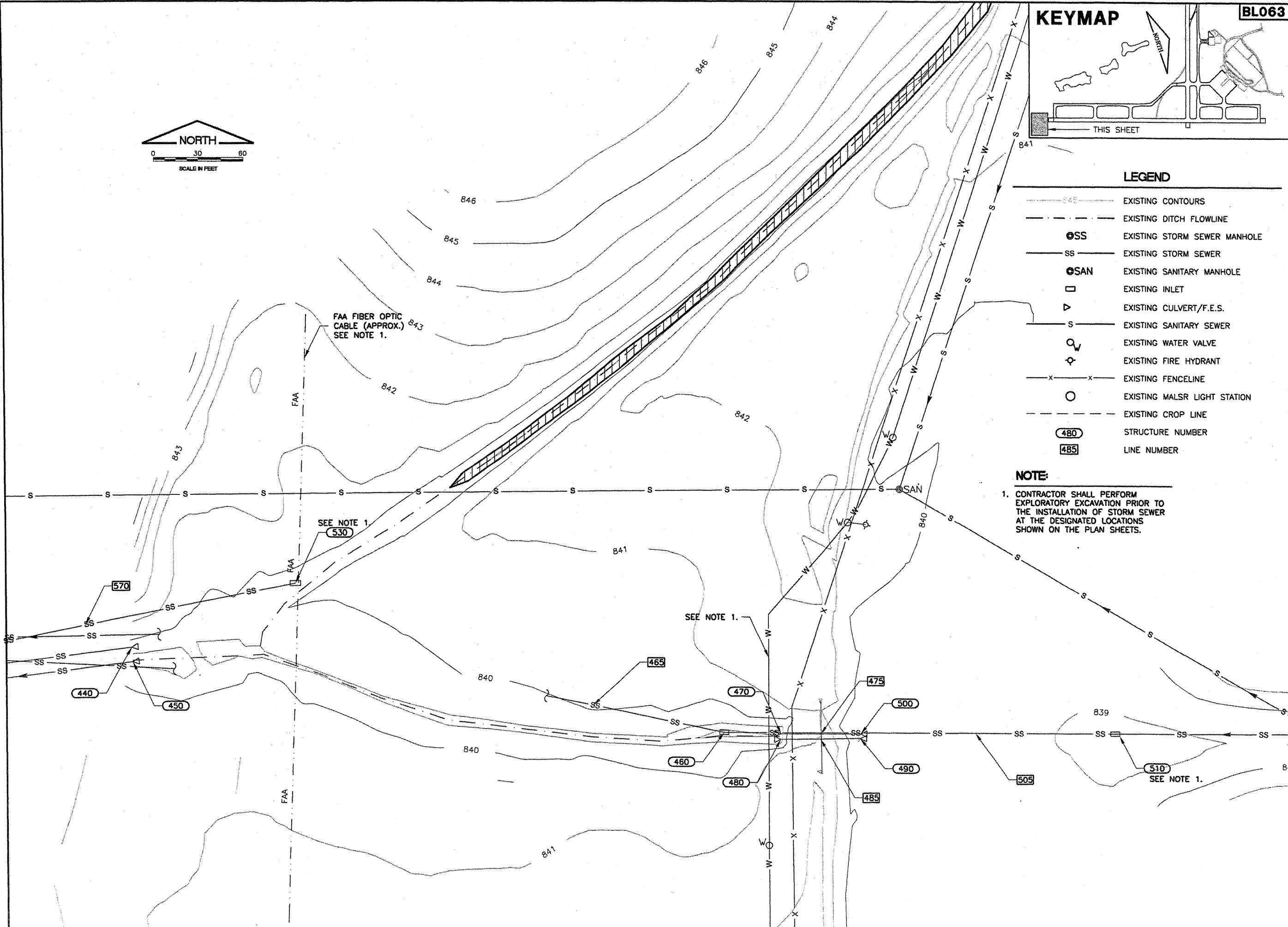
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 BASE\_EXISTSTOPO  
 tbinfo

REVISIONS		
NUMBER	BY	DATE



- LEGEND**
- EXISTING CONTOURS
  - - - EXISTING DITCH FLOWLINE
  - SS EXISTING STORM SEWER MANHOLE
  - SS— EXISTING STORM SEWER
  - SAN EXISTING SANITARY MANHOLE
  - EXISTING INLET
  - ▽ EXISTING CULVERT/F.E.S.
  - S— EXISTING SANITARY SEWER
  - EXISTING WATER VALVE
  - ⊕ EXISTING FIRE HYDRANT
  - x-x- EXISTING FENCELINE
  - EXISTING MALSR LIGHT STATION
  - - - EXISTING CROP LINE
  - (480) STRUCTURE NUMBER
  - [485] LINE NUMBER

**NOTE:**  
 1. CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATION PRIOR TO THE INSTALLATION OF STORM SEWER AT THE DESIGNATED LOCATIONS SHOWN ON THE PLAN SHEETS.



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

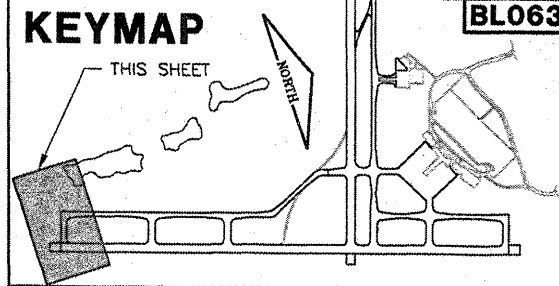
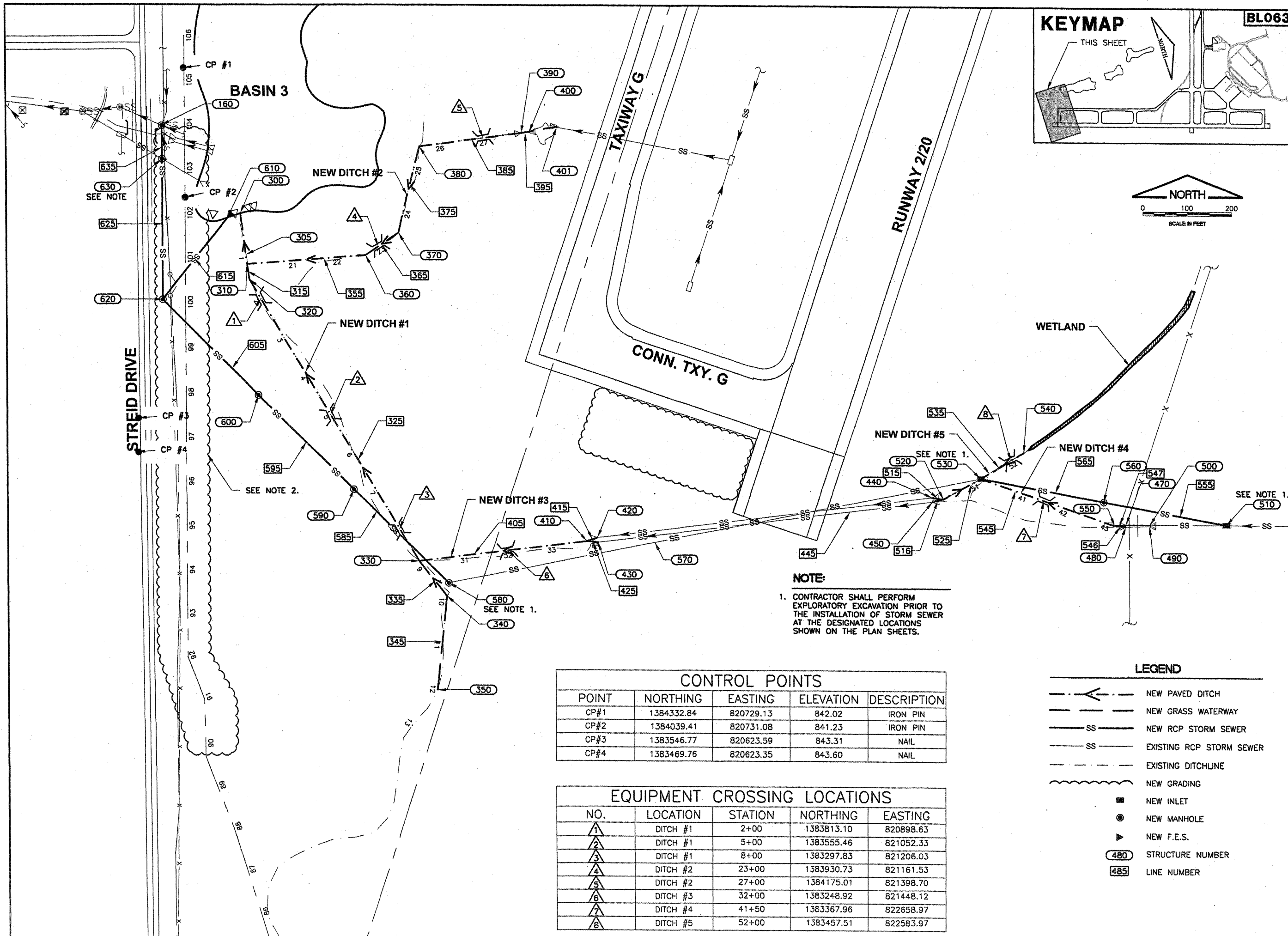
**CONSTRUCT DRAINAGE IMPROVEMENTS  
 EXISTING CONDITIONS & REMOVALS 3**

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 APPROVED BY: *RLV*  
 DATE: 04/01/2008  
 JOB No: 0708502

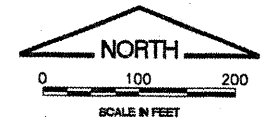
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 AIP PROJ NO. 3-17-0006-45  
 SHEET 09 OF 46 SHEETS



BL063

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 PLOT DATE: 4/14/2008 9:42 AM  
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 BASE\_PROPGE  
 BASE\_EXISTOPO  
 BASE\_EXISTGEO  
 BASE\_PROPCON  
 BASE\_PROPIMP  
 tbinfo  
 CL\_STA

REVISIONS		
NUMBER	BY	DATE



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

**NOTE:**  
 1. CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATION PRIOR TO THE INSTALLATION OF STORM SEWER AT THE DESIGNATED LOCATIONS SHOWN ON THE PLAN SHEETS.

CONTROL POINTS				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP#1	1384332.84	820729.13	842.02	IRON PIN
CP#2	1384039.41	820731.08	841.23	IRON PIN
CP#3	1383546.77	820623.59	843.31	NAIL
CP#4	1383469.76	820623.35	843.60	NAIL

EQUIPMENT CROSSING LOCATIONS				
NO.	LOCATION	STATION	NORTHING	EASTING
▲1	DITCH #1	2+00	1383813.10	820898.63
▲2	DITCH #1	5+00	1383555.46	821052.33
▲3	DITCH #1	8+00	1383297.83	821206.03
▲4	DITCH #2	23+00	1383930.73	821161.53
▲5	DITCH #2	27+00	1384175.01	821398.70
▲6	DITCH #3	32+00	1383248.92	821448.12
▲7	DITCH #4	41+50	1383367.96	822658.97
▲8	DITCH #5	52+00	1383457.51	822583.97

LEGEND	
	NEW PAVED DITCH
	NEW GRASS WATERWAY
	NEW RCP STORM SEWER
	EXISTING RCP STORM SEWER
	EXISTING DITCHLINE
	NEW GRADING
	NEW INLET
	NEW MANHOLE
	NEW F.E.S.
	STRUCTURE NUMBER
	LINE NUMBER

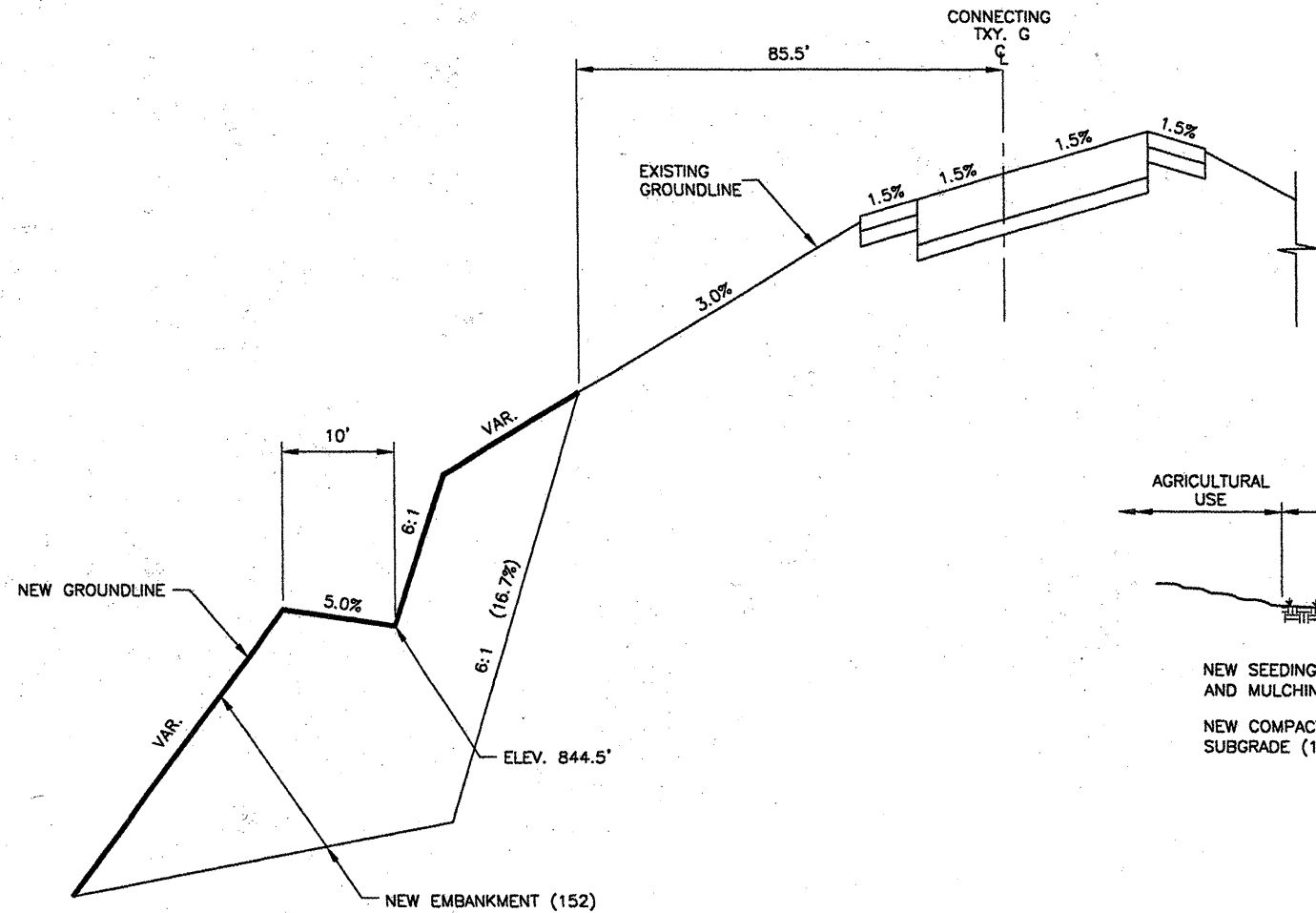
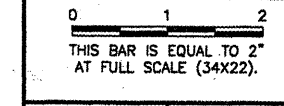
BLOOMINGTON-NORMAL AIRPORT AUTHORITY  
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 BLOOMINGTON, ILLINOIS

CONSTRUCT DRAINAGE IMPROVEMENTS  
 PROPOSED IMPROVEMENTS

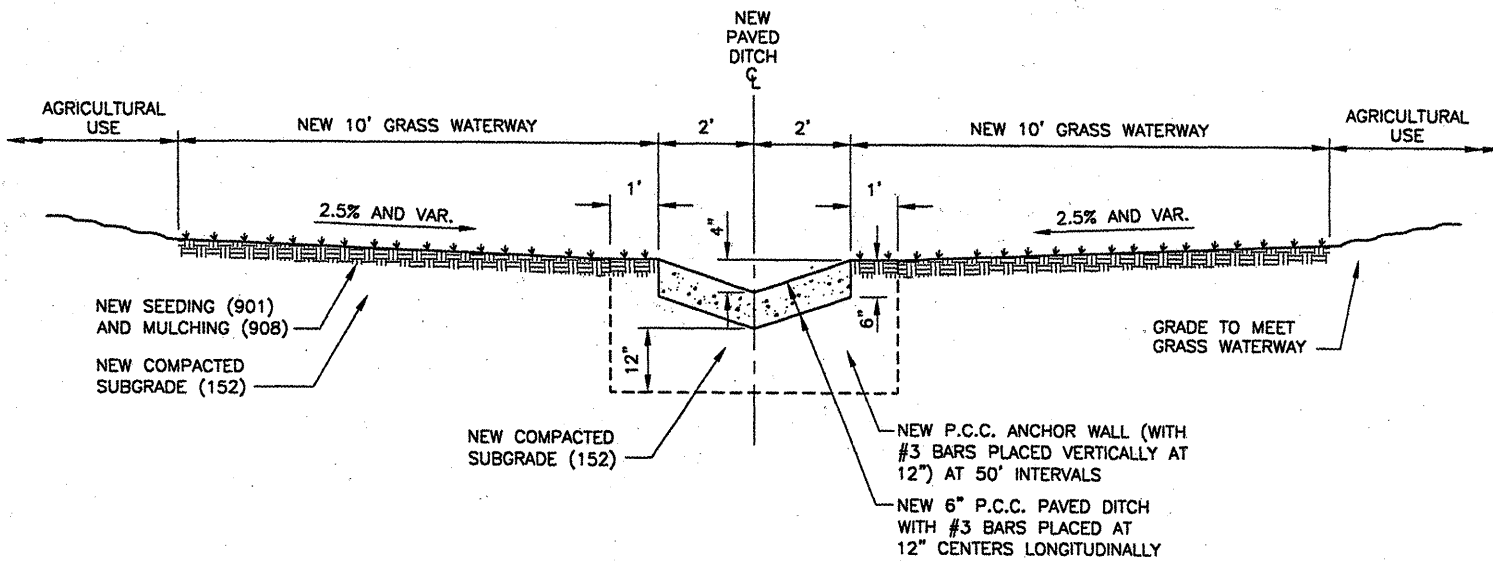
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 DATE: 04/01/2008  
 JOB No: 0708502  
 IL PROJ NO. BMI-3793  
 AIP PROJ NO. 3-17-0006-45  
 SHEET 10 OF 46 SHEETS

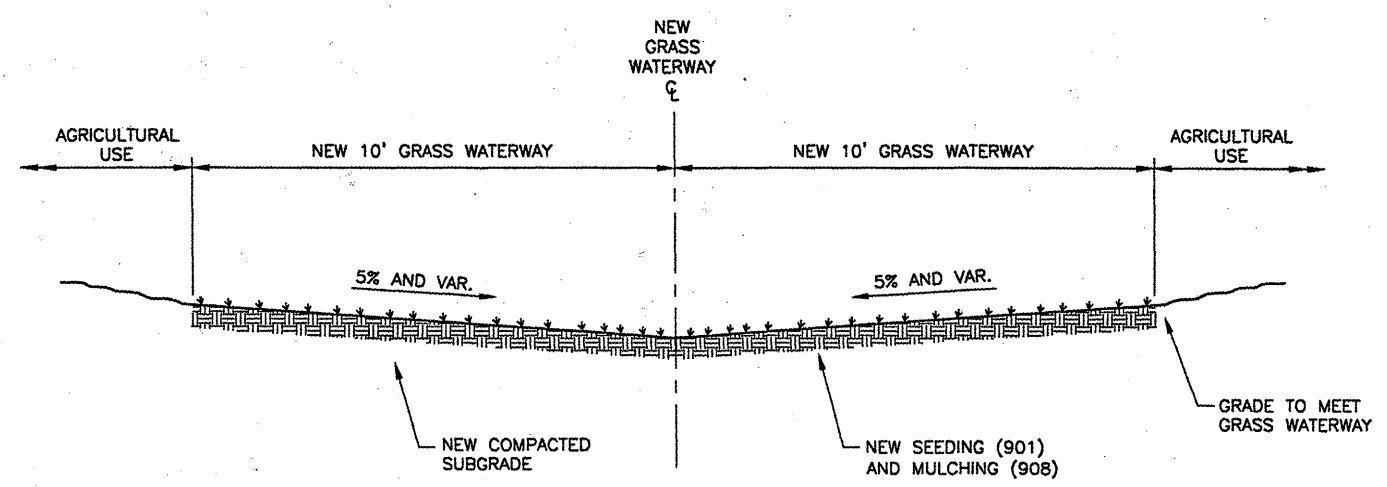
REVISIONS		
NUMBER	BY	DATE



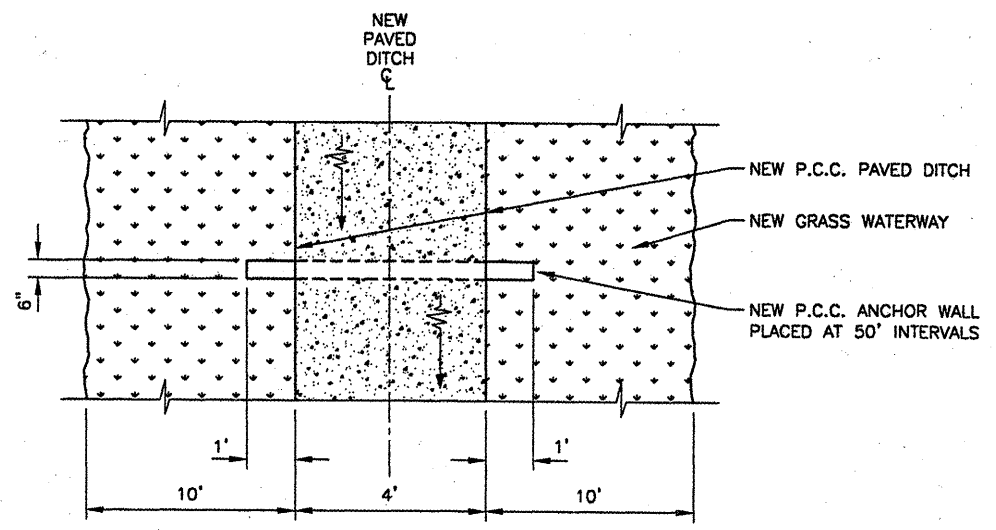
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 GRADING TYPICAL SECTION**  
 N.T.S.



**PAVED DITCH AND GRASS WATERWAY  
 TYPICAL SECTION**  
 N.T.S.



**GRASS WATERWAY  
 TYPICAL SECTION**  
 N.T.S.



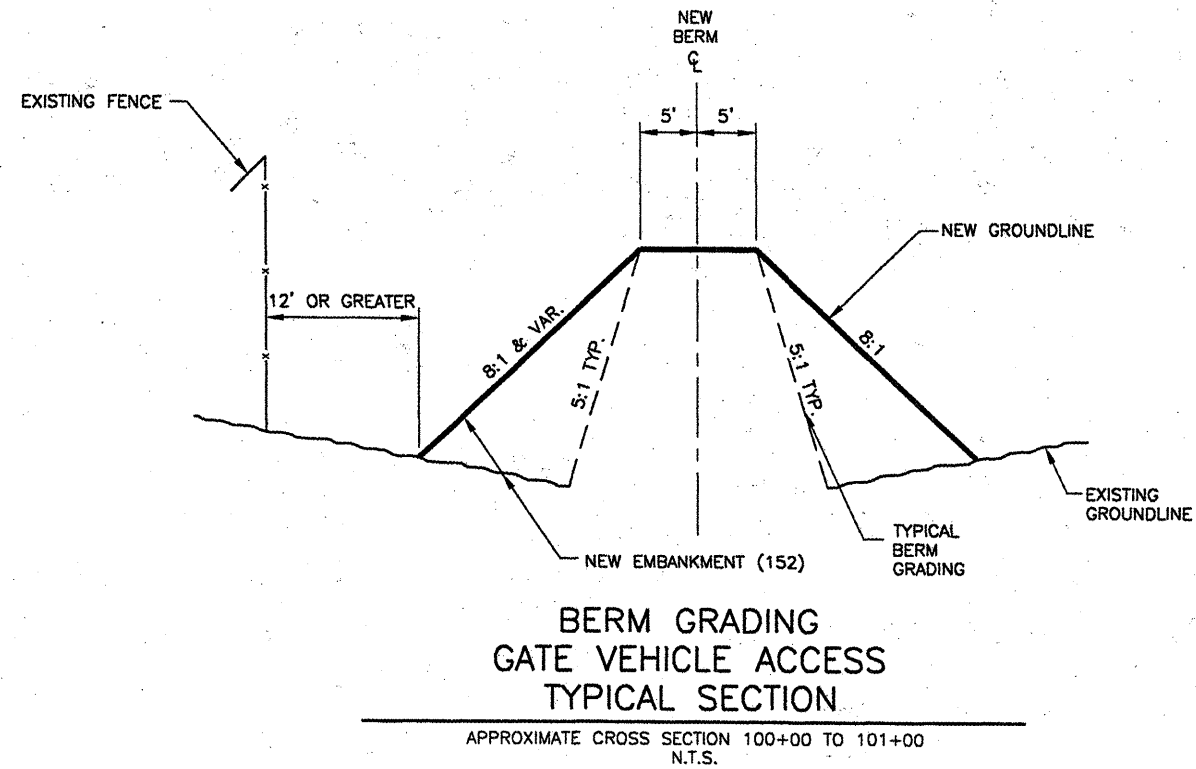
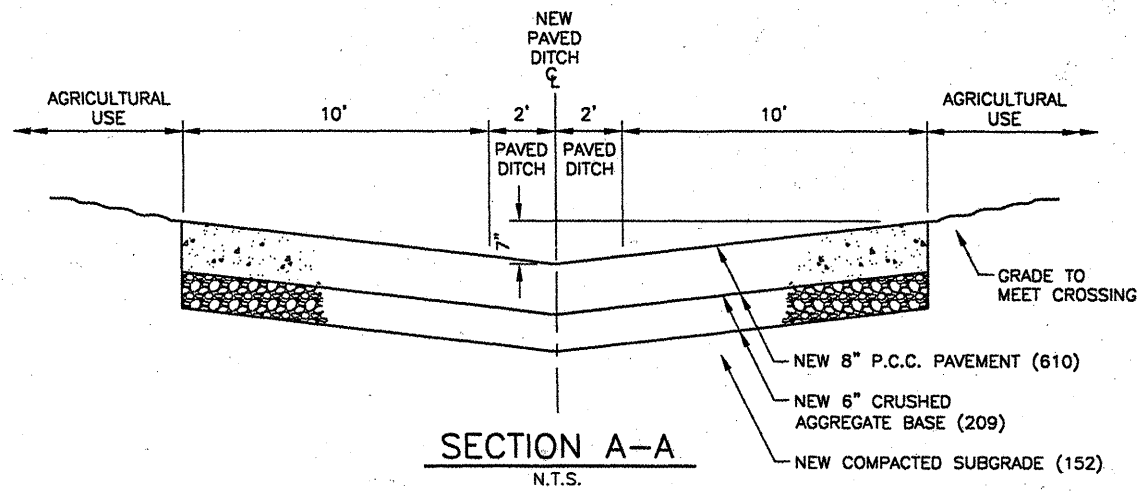
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 PLAN VIEW**  
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**BLOOMINGTON-NORMAL AIRPORT AUTHORITY  
 CENTRAL ILLINOIS REGIONAL AIRPORT  
 BLOOMINGTON, ILLINOIS**

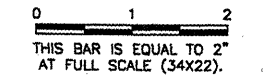
**CONSTRUCT DRAINAGE IMPROVEMENTS  
 TYPICAL SECTIONS 1**

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IL PROJ NO.	BMI-3793
AIP PROJ NO.	3-17-0006-45
SHEET 11 OF 46 SHEETS	



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NUMBER	BY	DATE

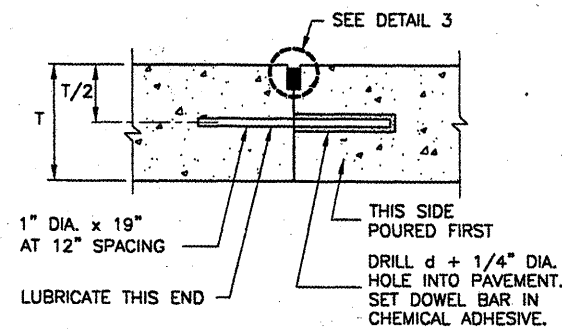
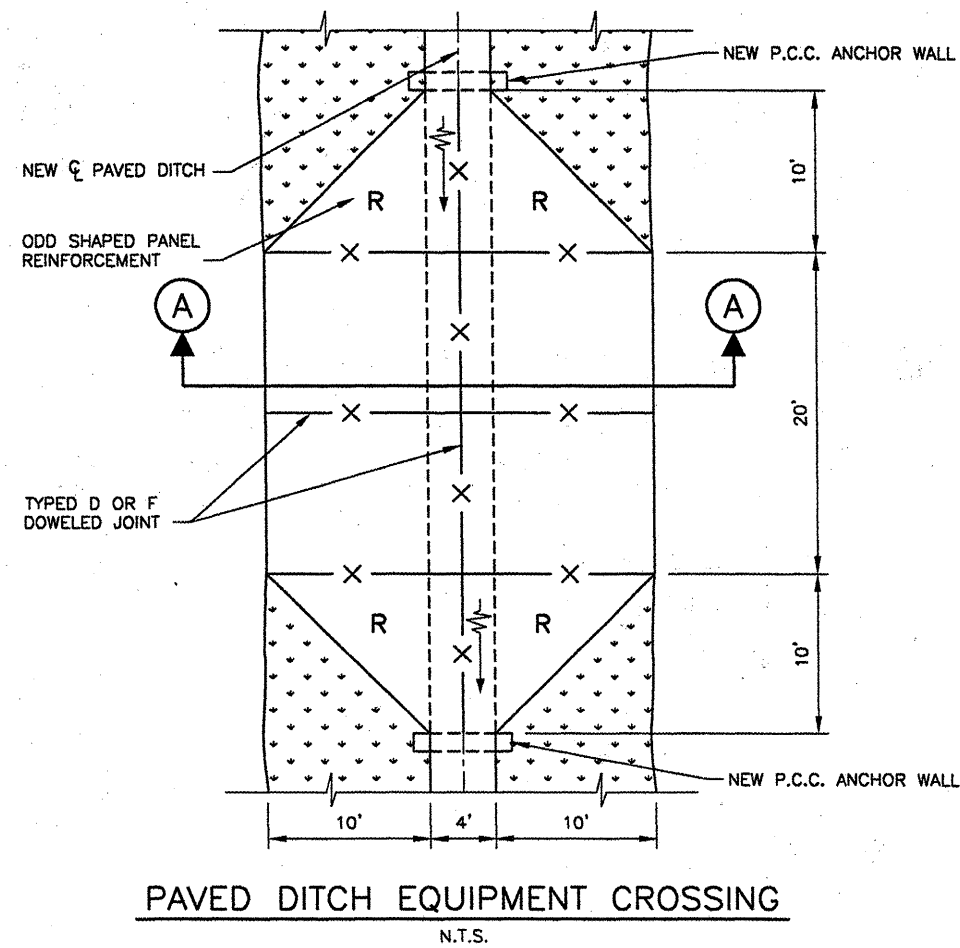


BLOOMINGTON-NORMAL AIRPORT AUTHORITY  
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 BLOOMINGTON, ILLINOIS  
 CONSTRUCT DRAINAGE IMPROVEMENTS  
 TYPICAL SECTIONS 2

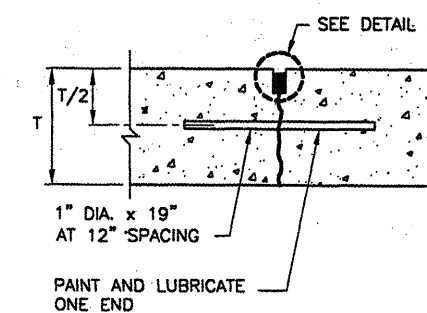
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 DATE: 04/01/2008  
 JOB No: 0708502

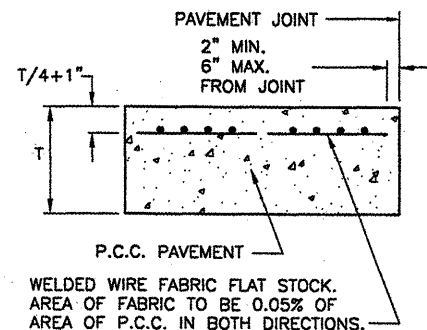
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 AIP PROJ NO. 3-17-0006-45  
 SHEET 12 OF 46 SHEETS



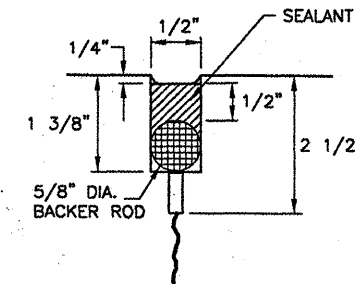
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 SYMBOL -X-X-X-



**TYPE F DOWELED**  
 SYMBOL -X-X-X-



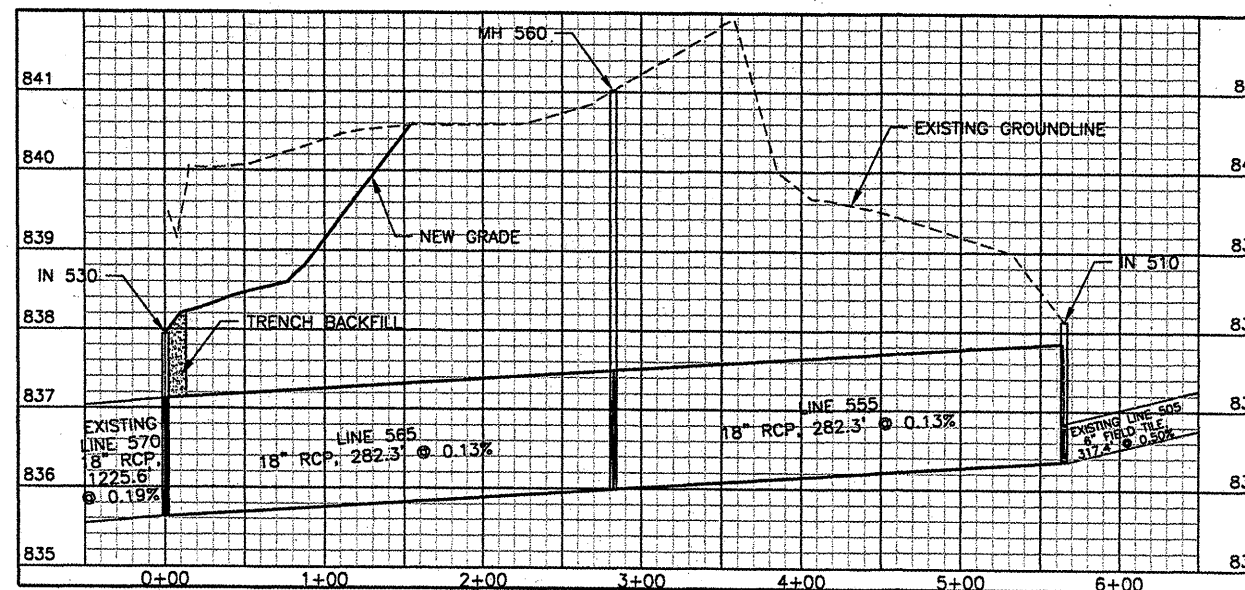
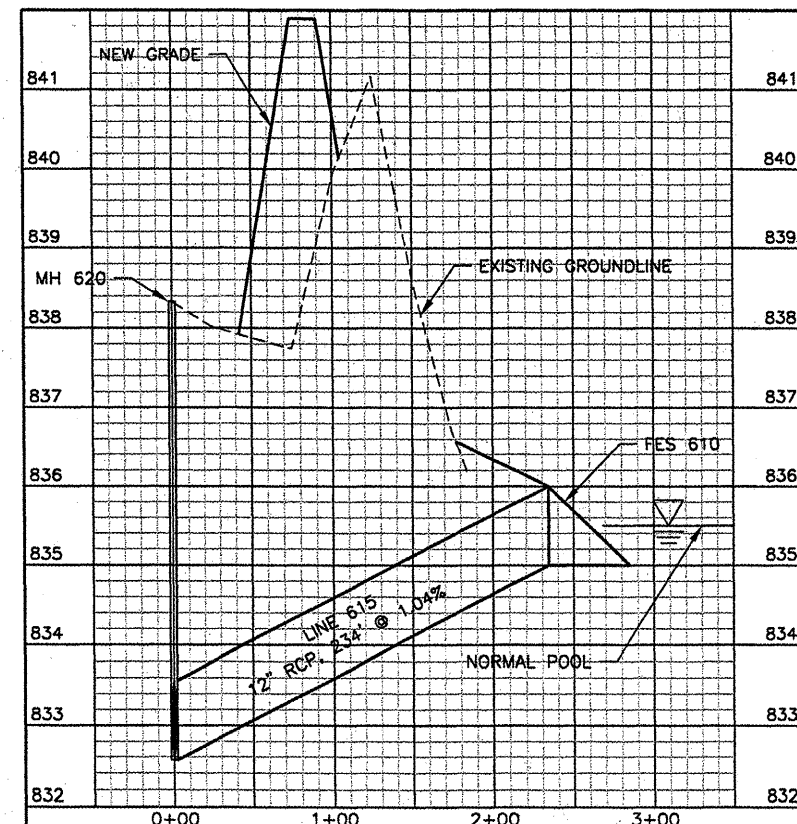
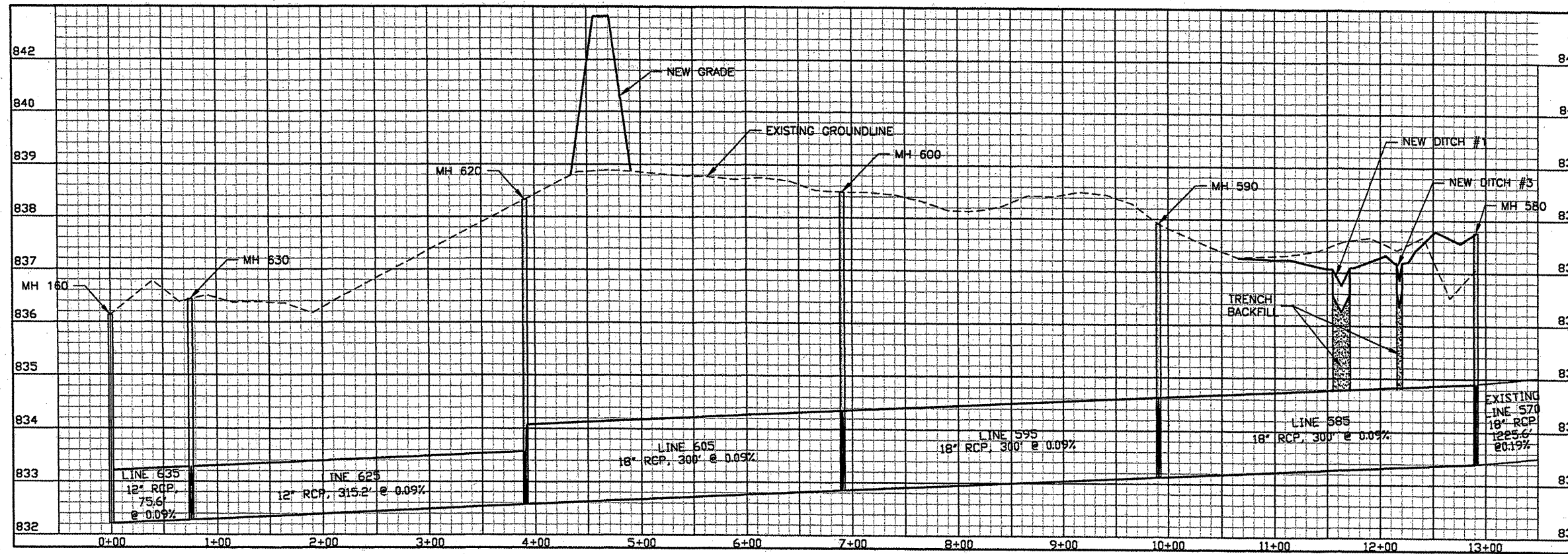
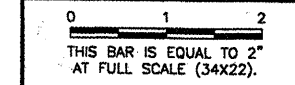
**ODD SHAPED PANEL REINFORCEMENT**  
 SYMBOL "R"



**DETAIL 3**



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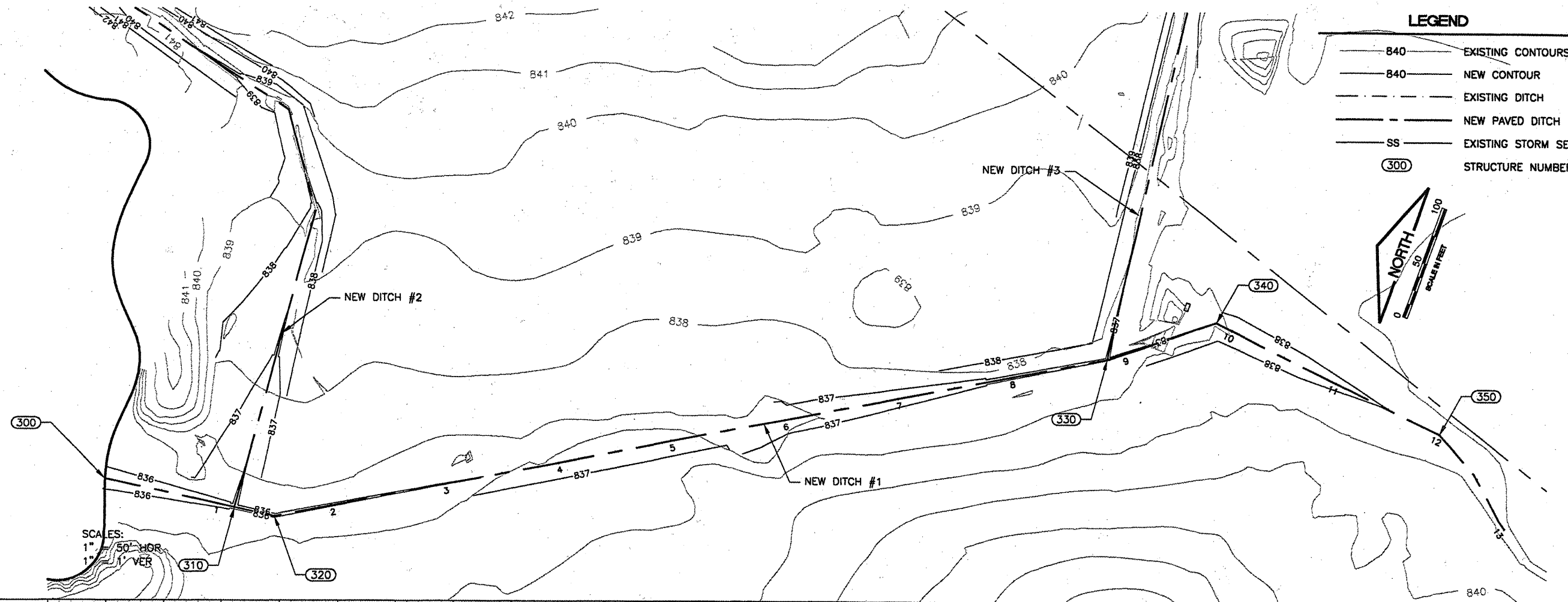


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 BLOOMINGTON, ILLINOIS**

**CONSTRUCT DRAINAGE IMPROVEMENTS  
 STORM SEWER PROFILES**

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 JOB No: 0708502  
 IL PROJ NO. BMI-3793  
 AIP PROJ NO. 3-17-0006-45  
 SHEET 13 OF 46 SHEETS



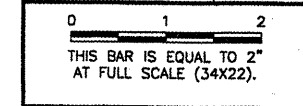
**LEGEND**

- 840 ——— EXISTING CONTOURS
- 840 ——— NEW CONTOUR
- - - - - EXISTING DITCH
- - - - - NEW PAVED DITCH
- SS ——— EXISTING STORM SEWER
- (300) ——— STRUCTURE NUMBER

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 UPDATE BY: Kristy Brod  
 PLOT DATE: 4/14/2008 9:43 AM  
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 BASE\_EXISTTOP  
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 BASE\_CONTOURS3DSCALE  
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 CL\_STA

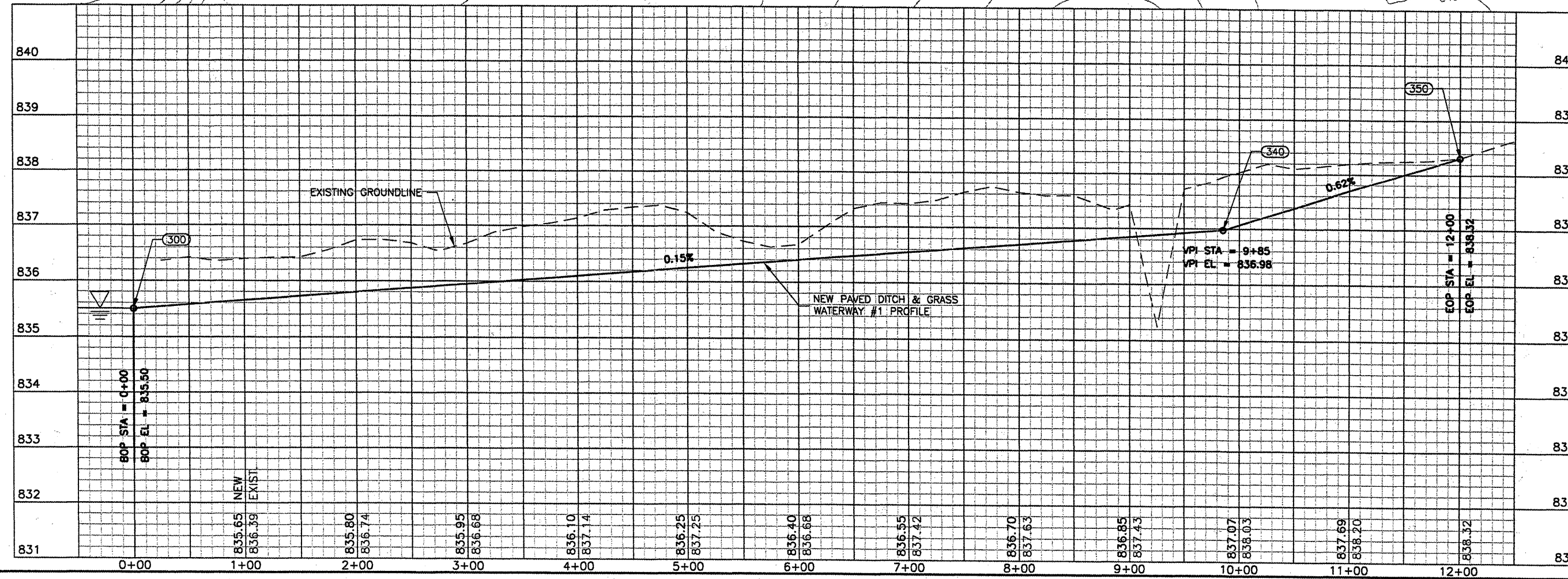
**REVISIONS**

NUMBER	BY	DATE



**BLOOMINGTON-NORMAL AIRPORT AUTHORITY  
 CENTRAL ILLINOIS REGIONAL AIRPORT  
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**CONSTRUCT DRAINAGE IMPROVEMENTS  
 DITCH 1 GRADING  
 PLAN & PROFILE  
 STA. 0+00 TO STA. 12+00**



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CHECKED BY:	RLV
APPROVED BY:	RLV
DATE:	04/01/2008
JOB No:	0708502
IL PROJ NO.	BMI-3793
AIP PROJ NO.	3-17-0006-45

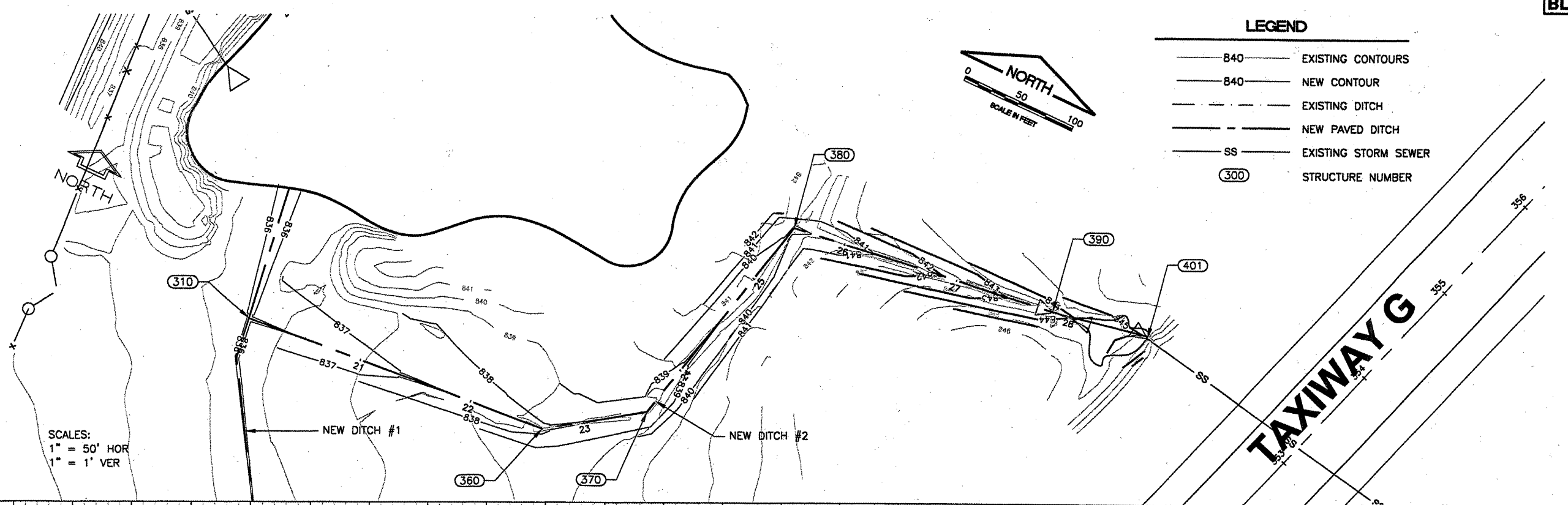
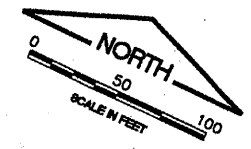
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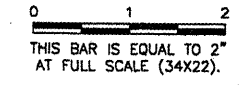
**LEGEND**

- 840 — EXISTING CONTOURS
- 840 — NEW CONTOUR
- - - EXISTING DITCH
- - - NEW PAVED DITCH
- SS EXISTING STORM SEWER
- (300) STRUCTURE NUMBER



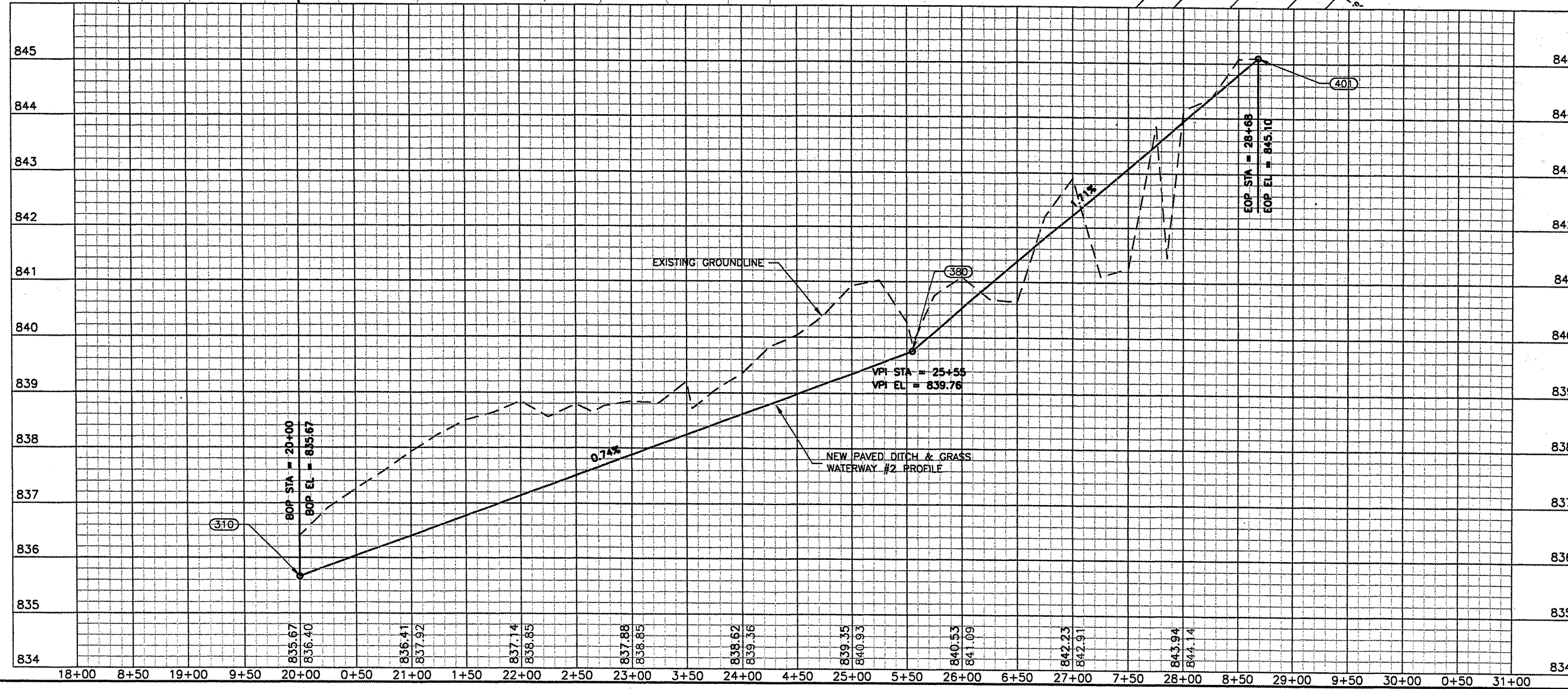
SCALES:  
 1" = 50' HOR  
 1" = 1' VER

REVISIONS		
NUMBER	BY	DATE



BLOOMINGTON-NORMAL AIRPORT AUTHORITY  
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 BLOOMINGTON, ILLINOIS

CONSTRUCT DRAINAGE IMPROVEMENTS  
 DITCH 2 GRADING  
 PLAN & PROFILE  
 STA. 20+00 TO STA. 27+85



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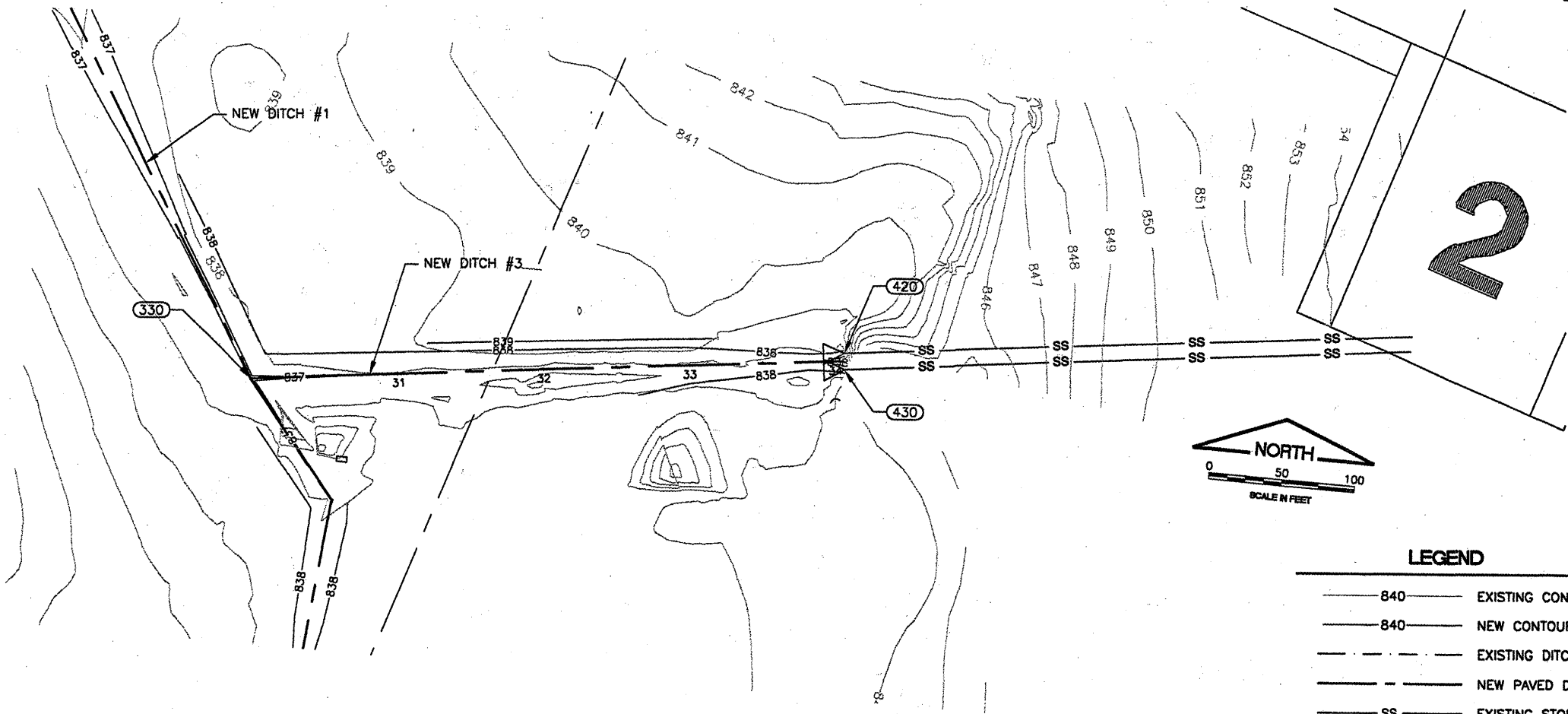
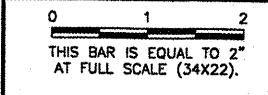
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 DRAWN BY: DPA  
 CHECKED BY: *RLN*  
 APPROVED BY: *RLN*  
 DATE: 04/01/2008  
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IL PROJ NO. BMI-3793  
 AIP PROJ NO. 3-17-0006-45  
 SHEET 15 OF 46 SHEETS

**BL063**

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 PLOT DATE: 4/14/2008 9:43 AM  
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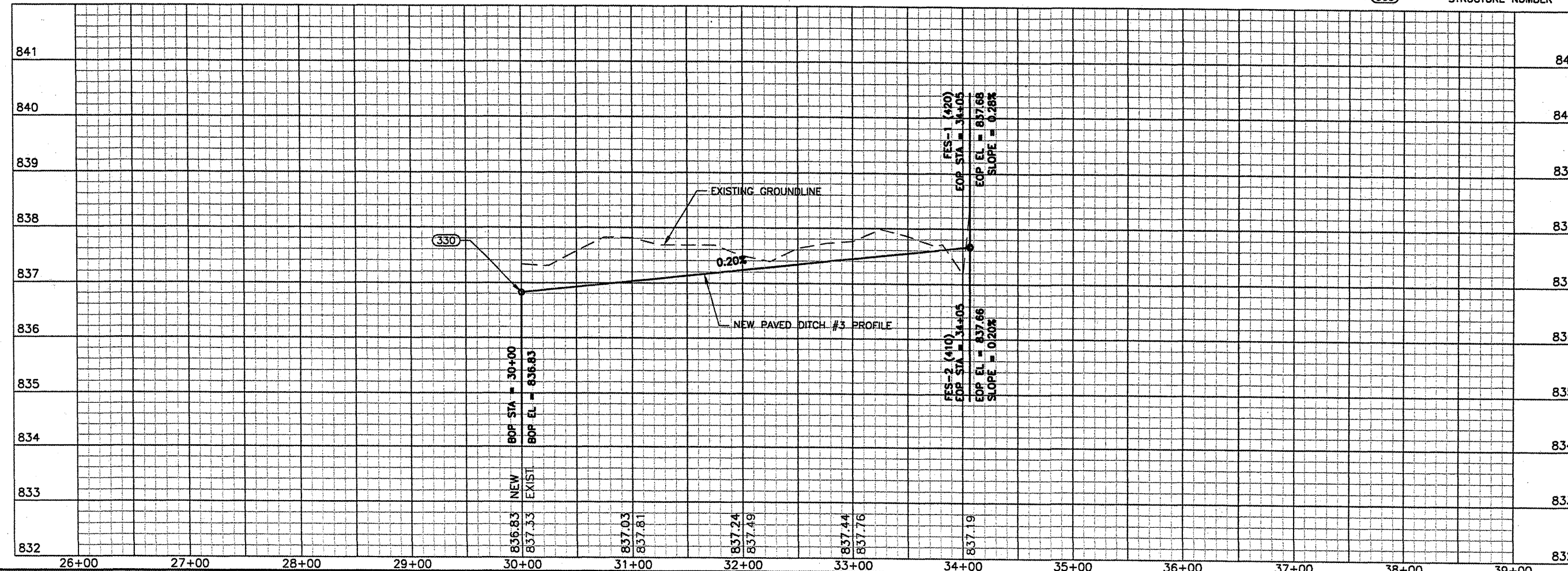
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NUMBER	BY	DATE



**LEGEND**

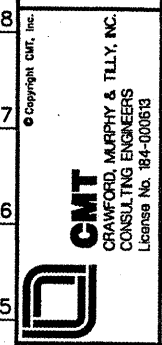
- 840 — EXISTING CONTOURS
- 840 — NEW CONTOUR
- - - EXISTING DITCH
- - - NEW PAVED DITCH
- SS — EXISTING STORM SEWER
- (300) STRUCTURE NUMBER

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



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 BLOOMINGTON, ILLINOIS

CONSTRUCT DRAINAGE IMPROVEMENTS  
 DITCH 3 GRADING  
 PLAN & PROFILE  
 STA. 30+00 TO STA. 34+05

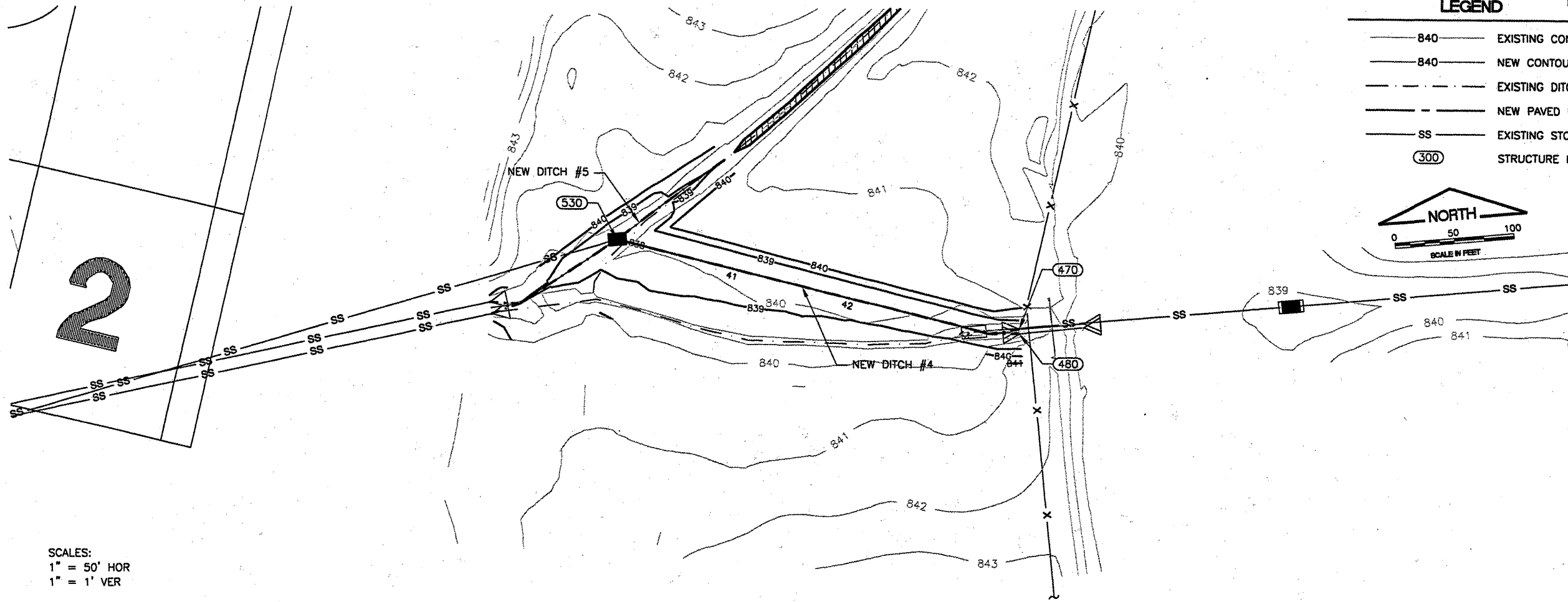


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 DATE: 04/01/2008

JOB No: 0708502  
 IL PROJ NO. BMI-3793  
 AIP PROJ NO. 3-17-0006-45





**LEGEND**

- 840 — EXISTING CONTOURS
- 840 — NEW CONTOUR
- - - - EXISTING DITCH
- - - - NEW PAVED DITCH
- SS — EXISTING STORM SEWER
- (300) STRUCTURE NUMBER



**BL063**

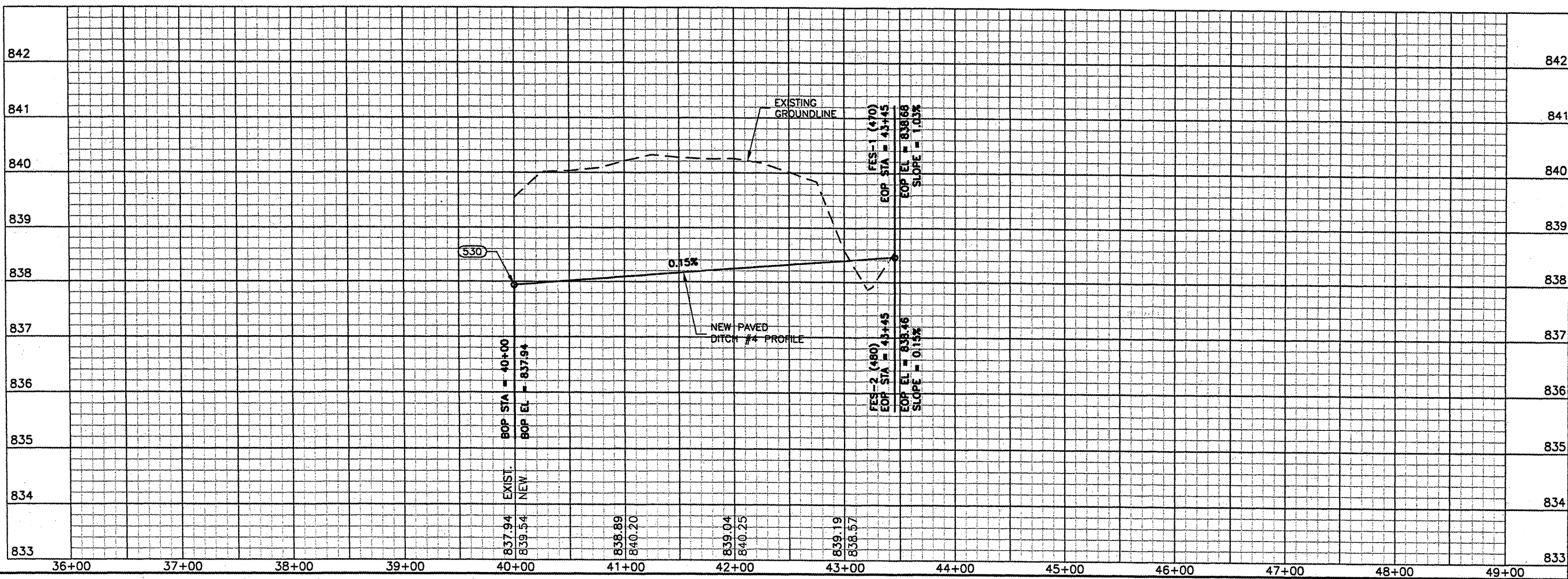
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 PLOT DATE: 4/14/2008 9:43 AM  
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 BASE\_EXISTTOPO  
 BASE\_PROPCON  
 BASE\_EXISTGEO  
 BASE\_CONTOURS30SCALE  
 tbinfo  
 BASE\_PROPPMP

**REVISIONS**

NUMBER	BY	DATE

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

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



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

**CONSTRUCT DRAINAGE IMPROVEMENTS**  
**DITCH 4 GRADING**  
**PLAN & PROFILE**  
**STA. 40+00 TO STA. 43+45**

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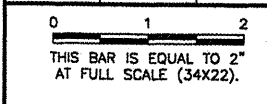
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 DRAWN BY: DPA  
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 APPROVED BY: *REV*  
 DATE: 04/01/2008  
 JOB No: 0708502

IL PROJ NO. BMI-3793  
 AIP PROJ NO. 3-17-0006-45

**BL063**

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REVISIONS		
NUMBER	BY	DATE

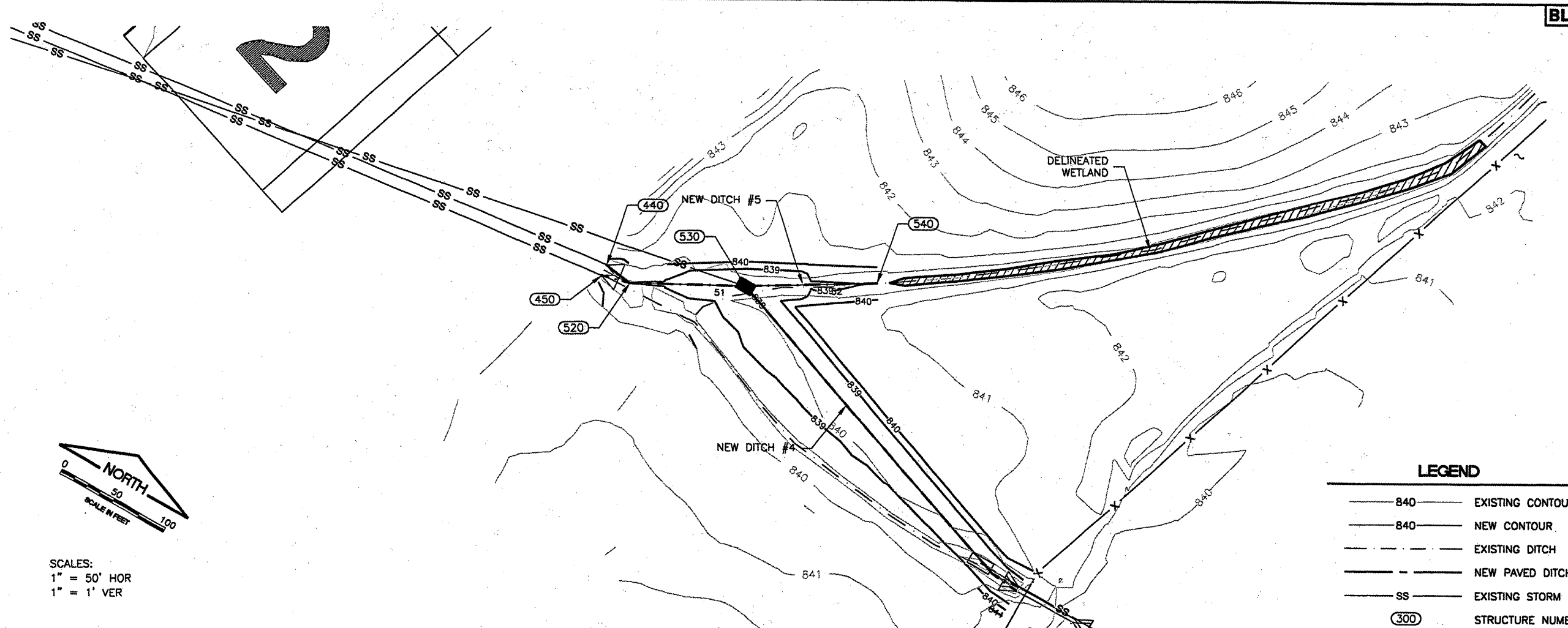


**BLOOMINGTON-NORMAL AIRPORT AUTHORITY**  
**CENTRAL ILLINOIS REGIONAL AIRPORT**  
**BLOOMINGTON, ILLINOIS**  
**CONSTRUCT DRAINAGE IMPROVEMENTS**  
**DITCH 5 GRADING**  
**PLAN & PROFILE**  
**STA. 50+00 TO STA. 52+34.50**

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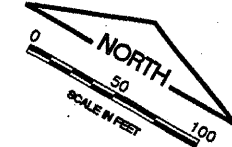
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 DATE: 04/01/2008  
 JOB No: 0708502

IL PROJ NO. BMI-3793  
 AIP PROJ NO. 3-17-0006-45  
 SHEET 18 OF 48 SHEETS

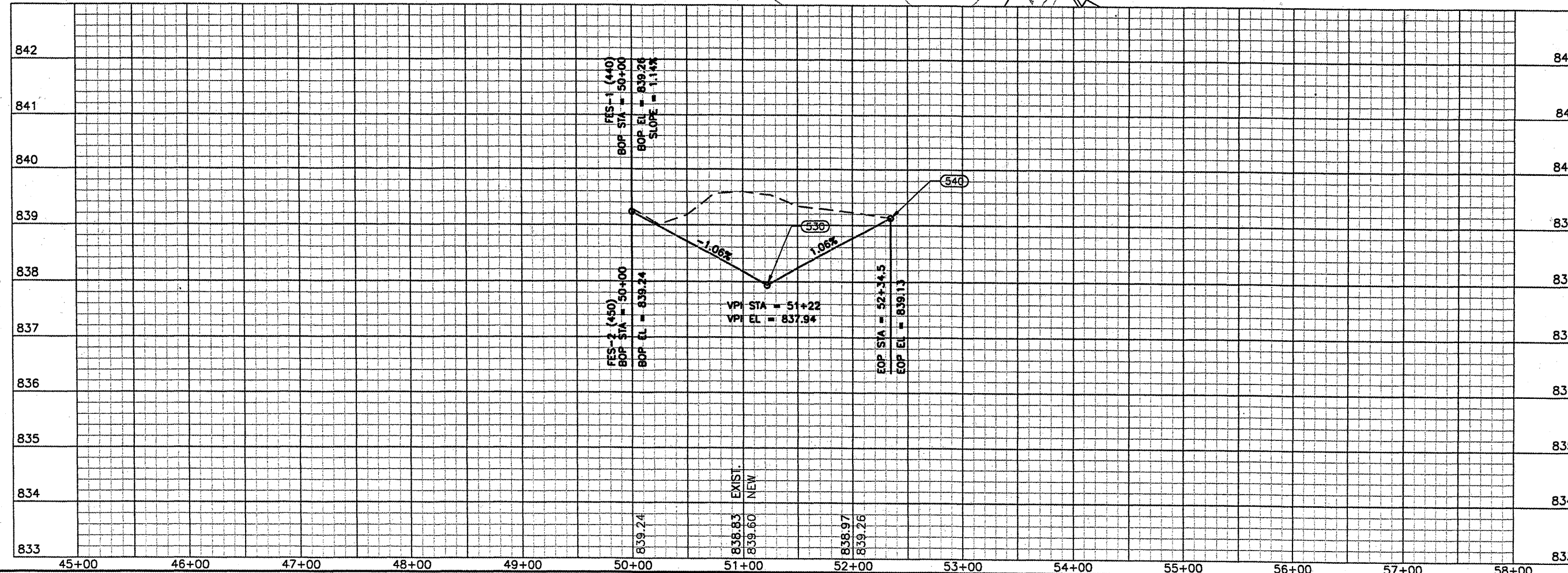


**LEGEND**

- 840 — EXISTING CONTOURS
- 840 — NEW CONTOUR
- - - EXISTING DITCH
- - - NEW PAVED DITCH
- SS EXISTING STORM SEWER
- (300) STRUCTURE NUMBER



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



FIS-1 (440)  
 BOP STA = 50+00  
 BOP EL = 839.24  
 SLOPE = 1.14%

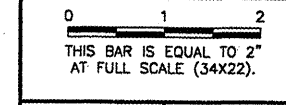
FIS-2 (450)  
 BOP STA = 50+00  
 BOP EL = 839.24

VPI STA = 51+22  
 VPI EL = 837.94

EOP STA = 52+34.5  
 EOP EL = 839.13

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REVISIONS		
NUMBER	BY	DATE



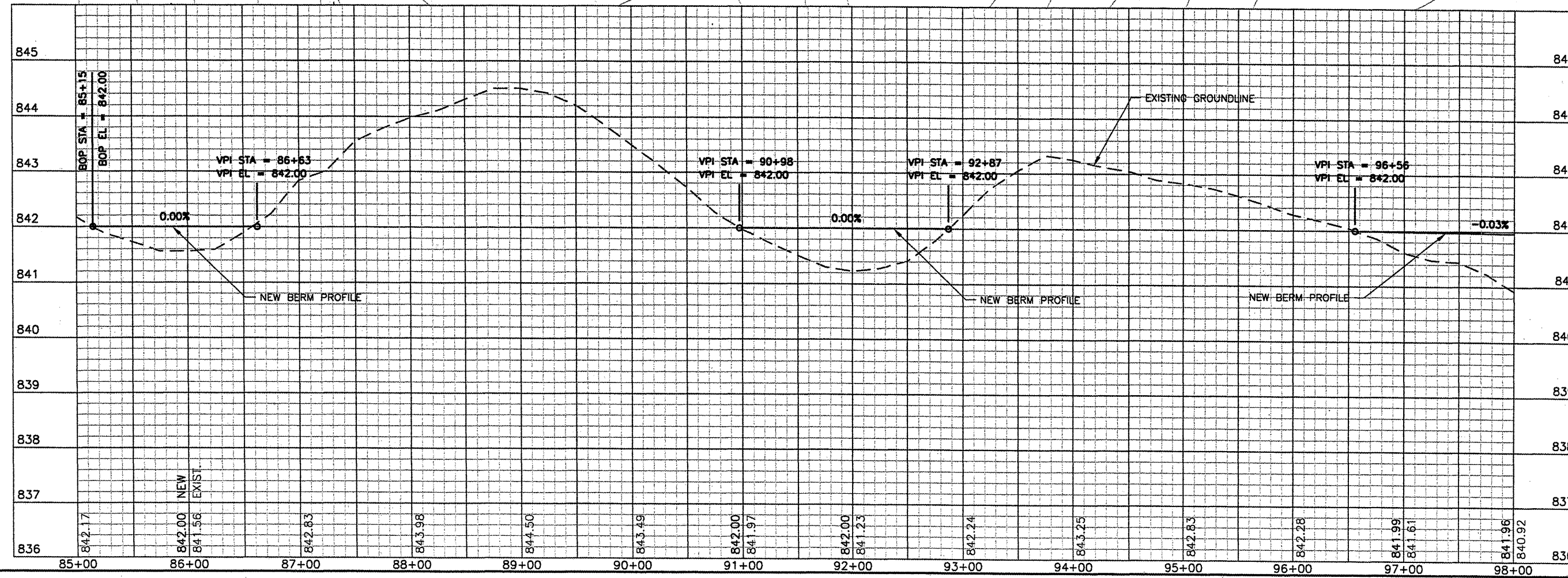
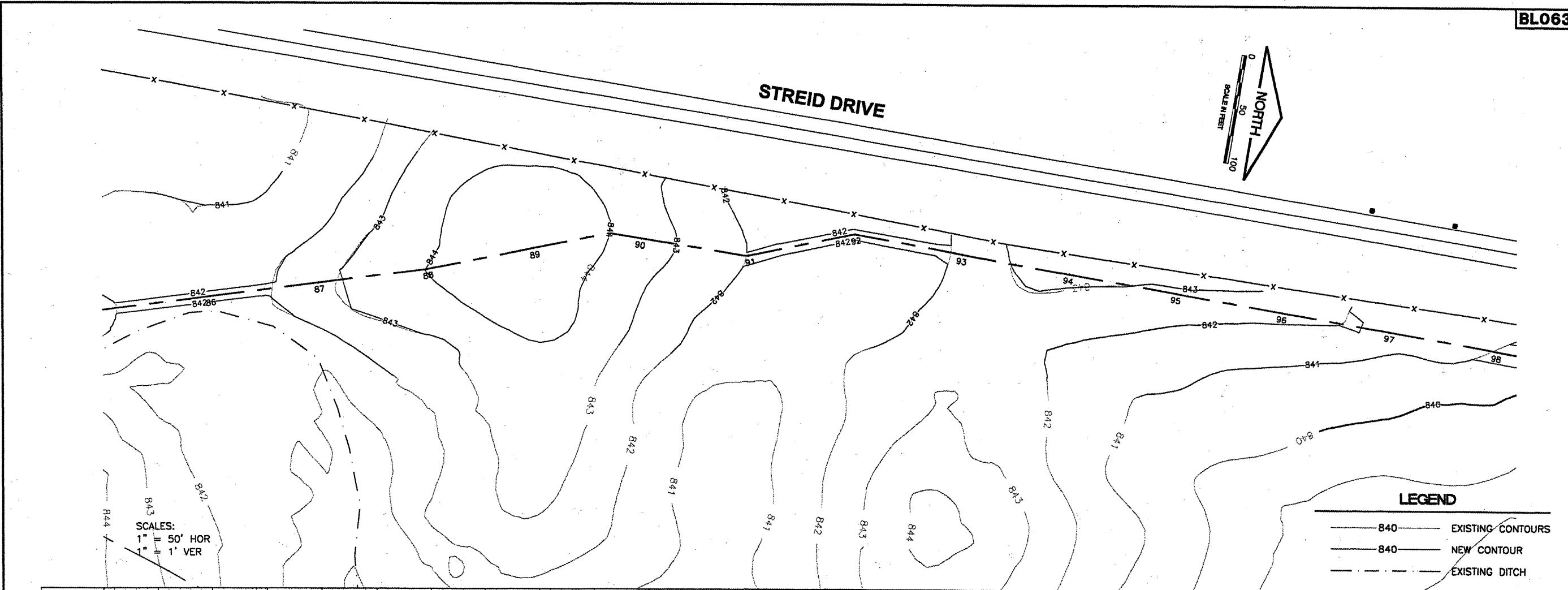
**BLOOMINGTON-NORMAL AIRPORT AUTHORITY  
 CENTRAL ILLINOIS REGIONAL AIRPORT  
 BLOOMINGTON, ILLINOIS**

**CONSTRUCT DRAINAGE IMPROVEMENTS  
 BERM GRADING  
 PLAN & PROFILE 1  
 STA. 85+15 TO STA. 98+00**

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DRAWN BY:	DPA
CHECKED BY:	<i>RLV</i>
APPROVED BY:	<i>RLV</i>
DATE:	04/01/2008
JOB No:	0708502

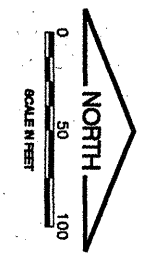
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 AIP PROJ NO. 3-17-0006-45





BL063

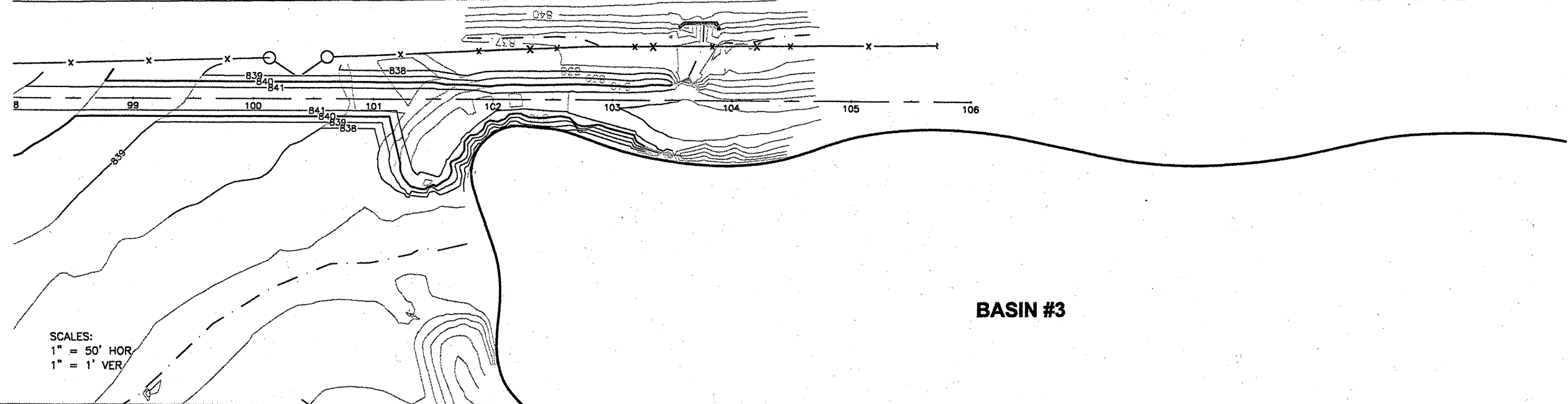
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BASE\_EXISTGEO  
BASE\_AERIAL  
BASE\_EXISTTOPO  
CL\_STA  
BASE\_PROPCON  
BASE\_CONTOURS30SCALE  
tbinfo



LEGEND

- 840 — EXISTING CONTOURS
- 840 — NEW CONTOUR
- - - EXISTING DITCH

STREID DRIVE



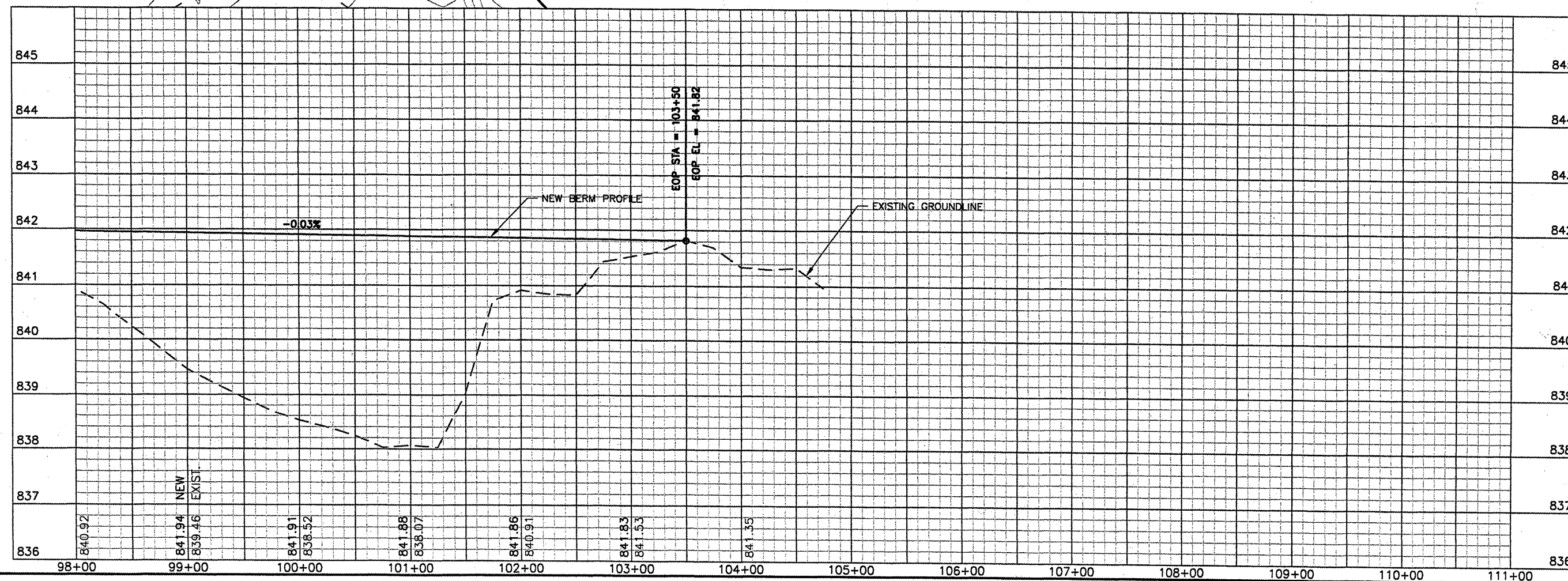
SCALES:  
1" = 50' HOR  
1" = 1' VER

REVISIONS

NUMBER	BY	DATE

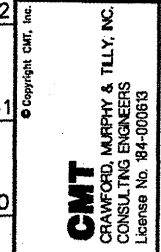
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THIS BAR IS EQUAL TO 2"  
AT FULL SCALE (34X22).

BASIN #3



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

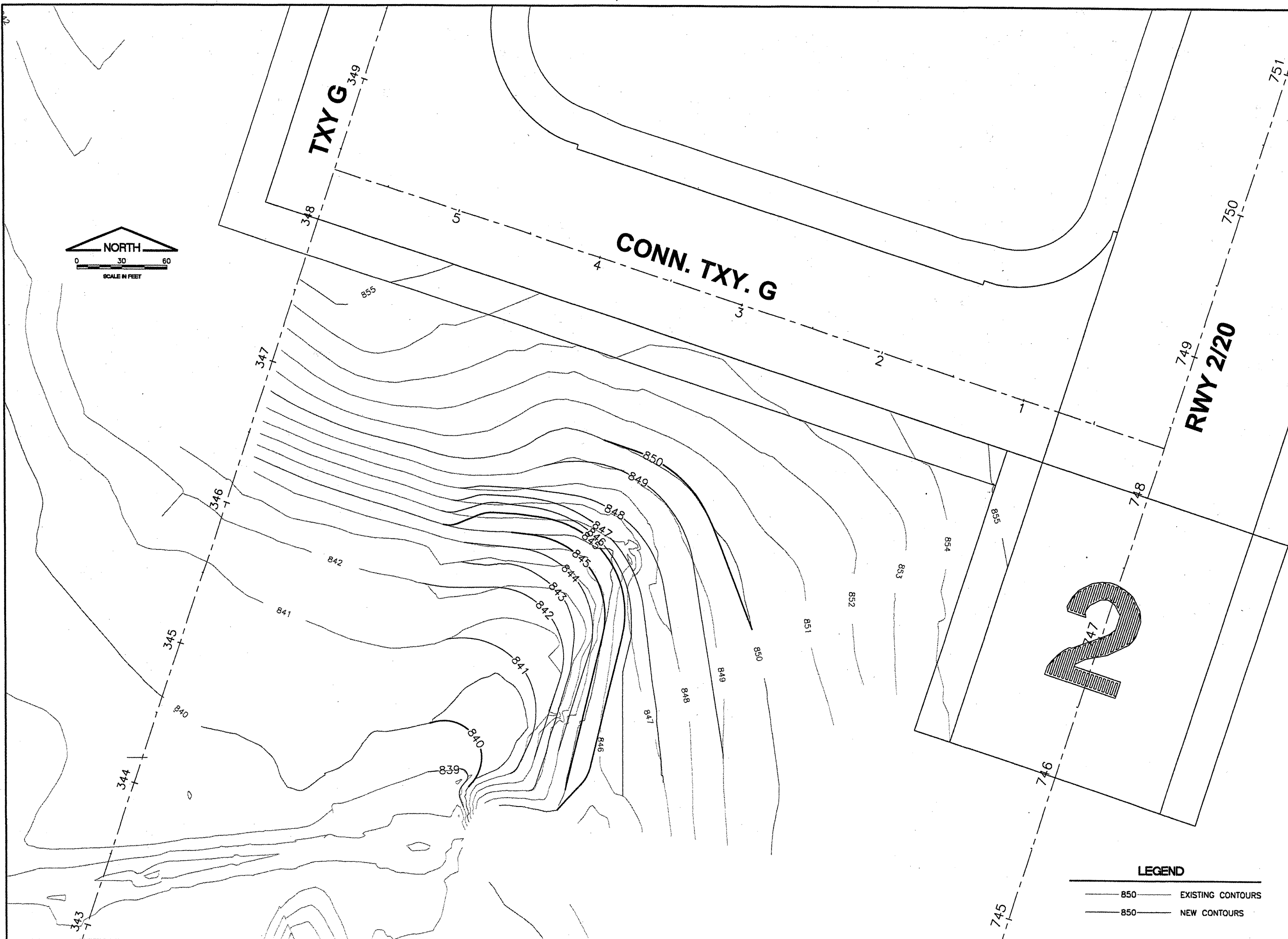
CONSTRUCT DRAINAGE IMPROVEMENTS  
BERM GRADING  
PLAN & PROFILE 2  
STA. 98+00 TO STA. 103+50



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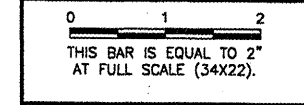
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DRAWN BY:	DPA
CHECKED BY:	<i>REN</i>
APPROVED BY:	<i>REN</i>
DATE:	04/01/2008
JOB No.:	0708502
IL PROJ NO.:	BMI-3793
AIP PROJ NO.:	3-17-006-45
SHEET	20 OF 46 SHEETS





K:\Bloomington\0708502\Draw\Sheets  
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 BASE\_EXISTGEO  
 CL\_STA  
 BASE\_PROPCON  
 BASE\_CONTOURS30SCALE

REVISIONS		
NUMBER	BY	DATE



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

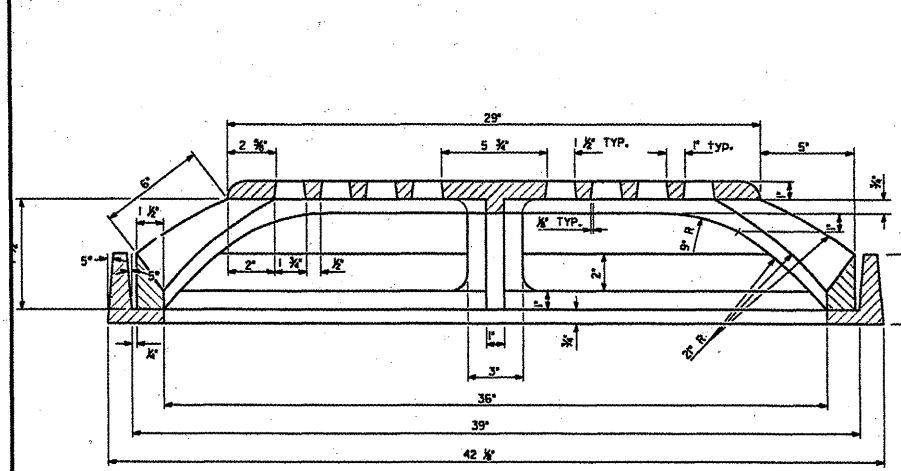
**CONSTRUCT DRAINAGE IMPROVEMENTS  
 TAXIWAY G GRADING PLAN**

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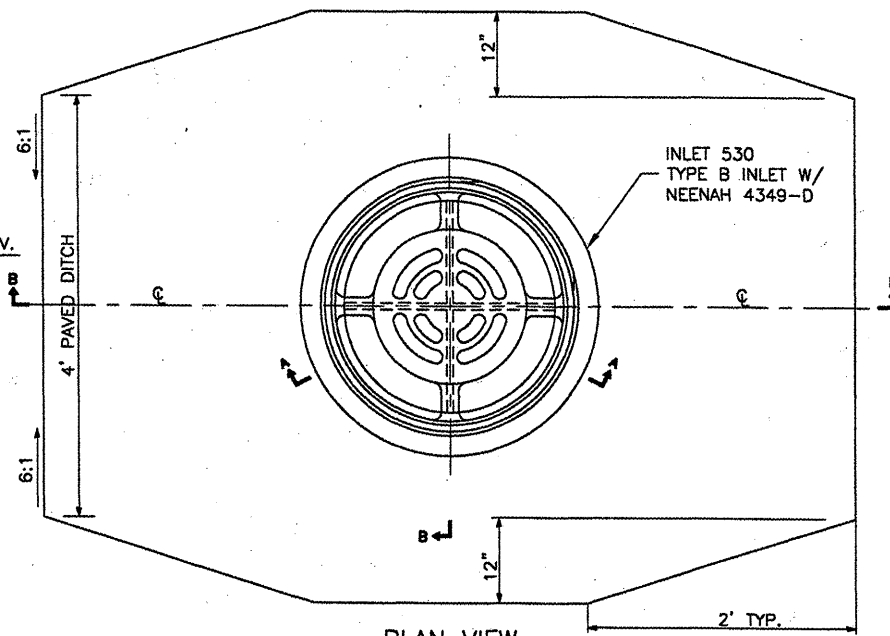
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APPROVED BY:	RLV
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JOB No:	0708502
IL PROJ NO.	BMI-3793
AIP PROJ NO.	3-17-0006-45
SHEET	21 OF 46 SHEETS

**LEGEND**

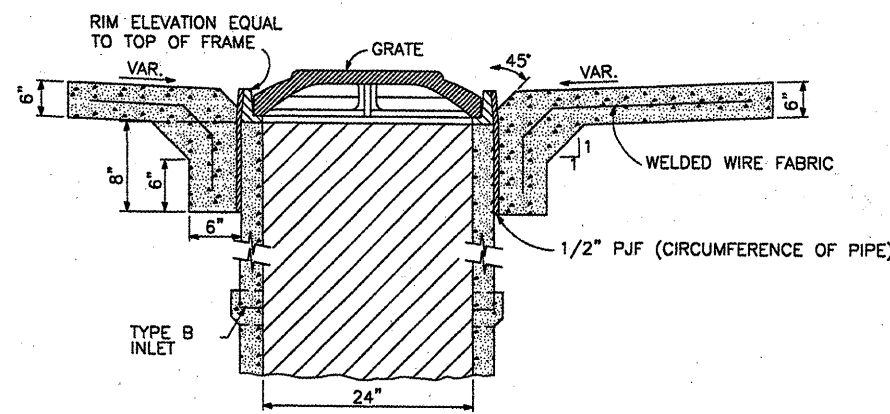
— 850 —	EXISTING CONTOURS
- - - 850 - - -	NEW CONTOURS



**SECTION A-A**  
 NEENAH R-4349-D OR EQUIVALENT  
 N.T.S.



**PLAN VIEW**  
 N.T.S.  
 INLET 530 PAVED DITCH LOCATION

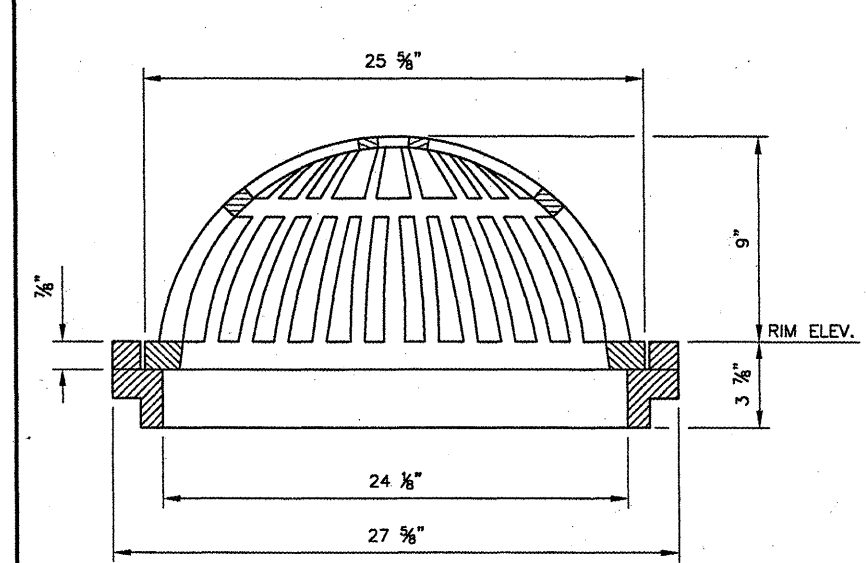


**SECTION B-B**  
 N.T.S.

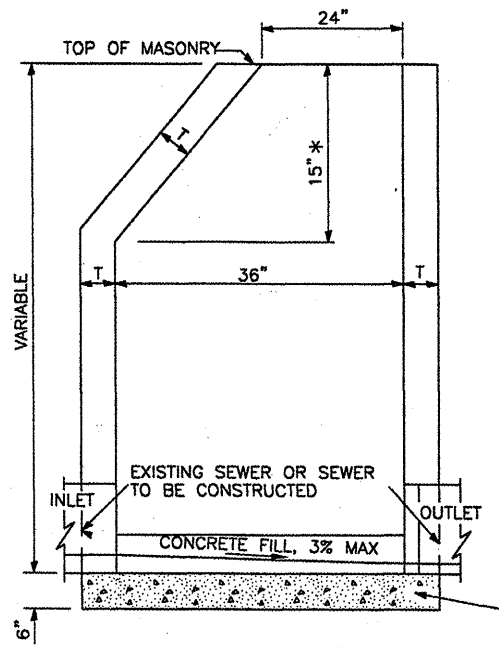
REVISIONS

NUMBER	BY	DATE

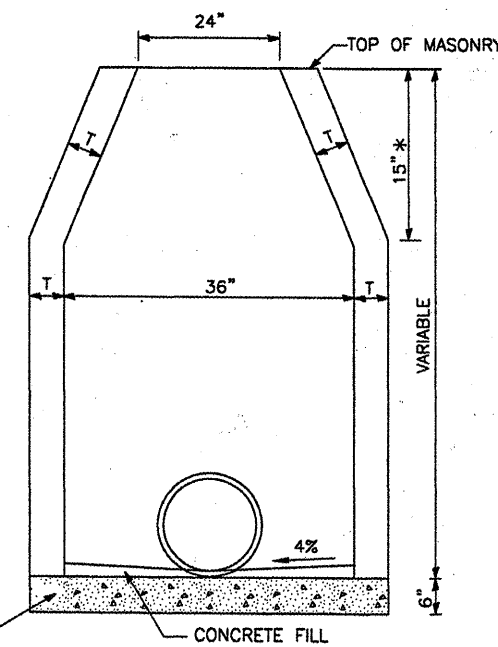
0 1 2  
 THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).



**BEEHIVE GRATE WITH FRAME**  
 NEENAH R-4353 OR EQUIVALENT  
 N.T.S.



**ELEVATION - ECCENTRIC**

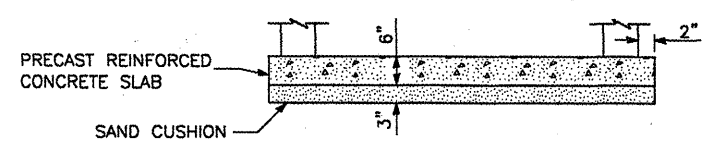


**ELEVATION - CONCENTRIC**

ALTERNATE MATERIALS FOR WALLS	T (MIN.)
CONCRETE MASONRY UNIT	5"
BRICK MASONRY	8"
PRECAST REINFORCED CONCRETE SECTION	3"
CAST-IN-PLACE CONCRETE	6"

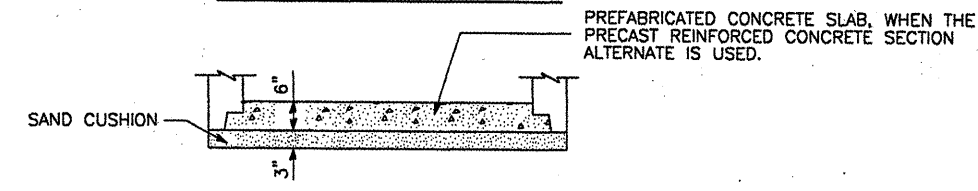
**GENERAL NOTES**

\* THIS DIMENSION FOR PRECAST REINFORCED CONCRETE SECTIONS MAY VARY FROM THE DIMENSION GIVEN TO PLUS 6".  
 SEE STANDARD 602601 FOR OPTIONAL PRECAST CONCRETE FLAT SLAB TOP.  
 ALL DIMENSION ARE IN INCHES UNLESS OTHERWISE SHOWN.



**ALTERNATE BOTTOM SLAB**

**TYPE B INLET DETAIL**  
 IDOT STANDARD 602306-01  
 N.T.S.



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

**CONSTRUCT DRAINAGE IMPROVEMENTS**

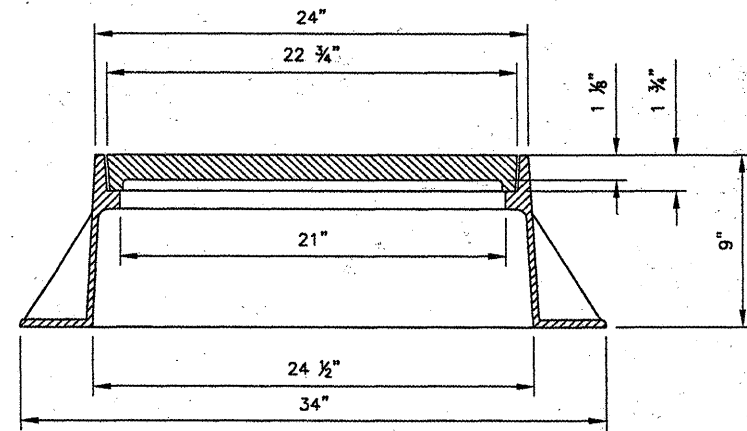
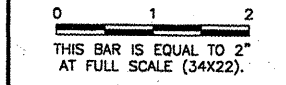
**INLET DETAILS**

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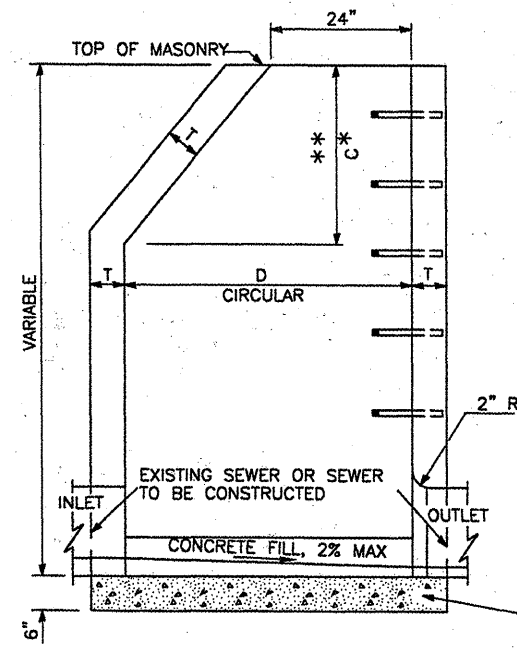
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DRAWN BY:	DPA
CHECKED BY:	<i>RW</i>
APPROVED BY:	<i>RW</i>
DATE:	04/01/2008
JOB No:	0708502
IL PROJ NO:	BMI-3793
AIP PROJ NO:	3-17-0006-45
SHEET	22 OF 46 SHEETS

REVISIONS		
NUMBER	BY	DATE

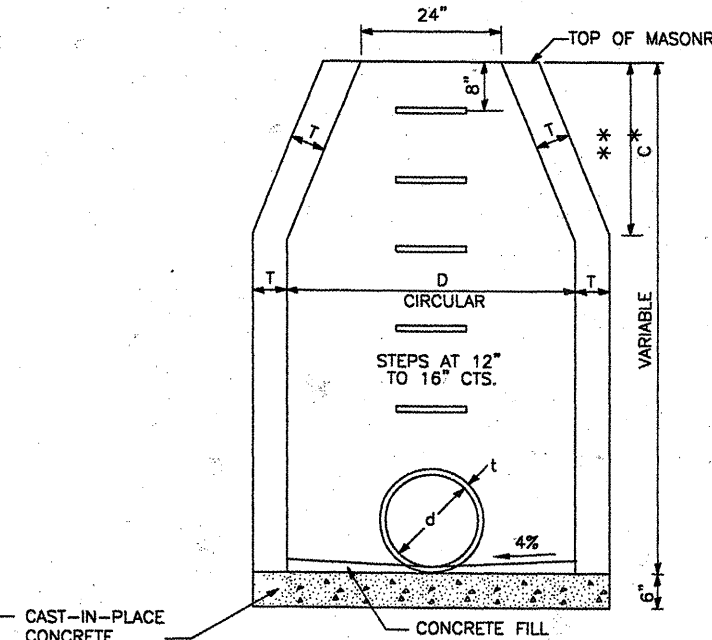


**MANHOLE FRAME, OPEN LID**  
 NEENAH R-2504-D OR EQUIVALENT  
 N.T.S.

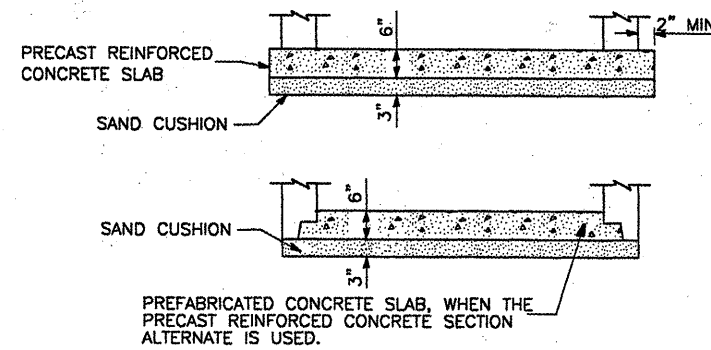
NOTE 1: LID SHALL BE BOLTED TO FRAME.



**ELEVATION - ECCENTRIC**



**ELEVATION - CONCENTRIC**



**ALTERNATE BOTTOM SLAB**

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

ALTERNATE MATERIALS FOR WALLS	D	C	T (MIN.)
<del>CONCRETE MASONRY UNIT</del>	<del>4'-0"</del> <del>5'-0"</del>	<del>30"</del> <del>3'-9"</del>	<del>5"</del> <del>6"</del>
<del>BRICK MASONRY</del>	<del>4'-0"</del> <del>5'-0"</del>	<del>30"</del> <del>3'-9"</del>	<del>6"</del> <del>8"</del>
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**

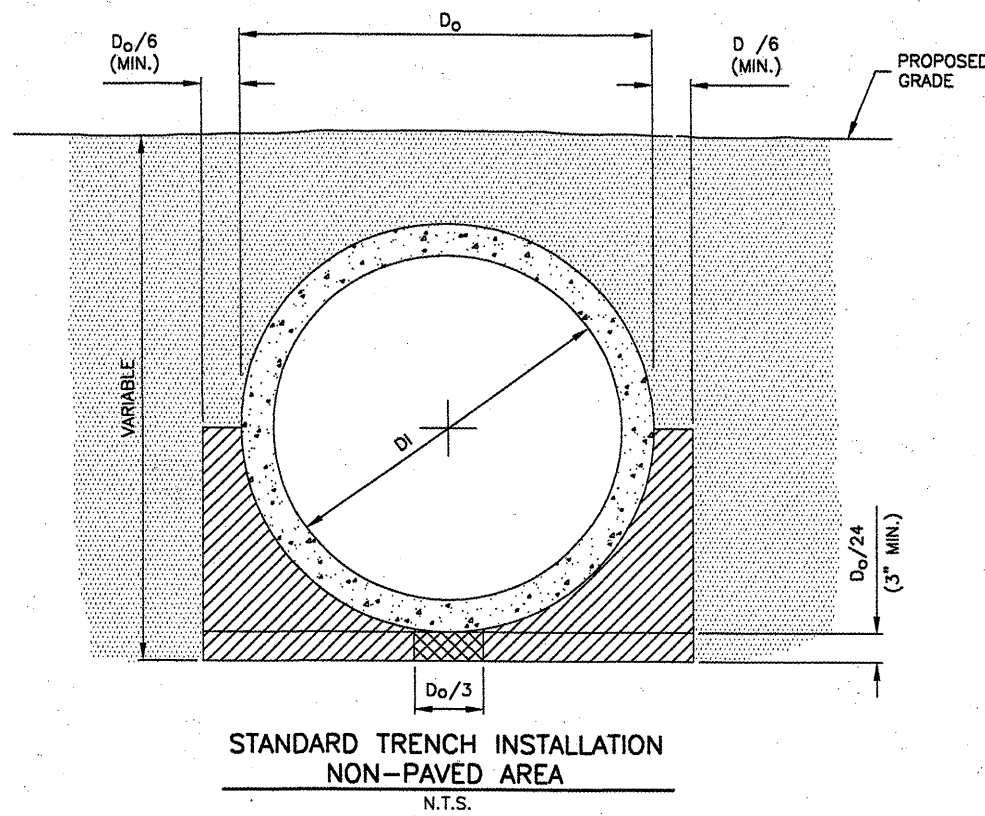
- SEE STANDARD 602701 FOR DETAILS OF STEPS.
- \* DIMENSION "C" FOR PRECAST REINFORCED CONCRETE SECTIONS MAY VARY FROM THE DIMENSION GIVEN TO PLUS 6".
- \*\* SEE STANDARD 602601 FOR OPTIONAL PRECAST REINFORCED CONCRETE FLAT SLAB TOP.

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

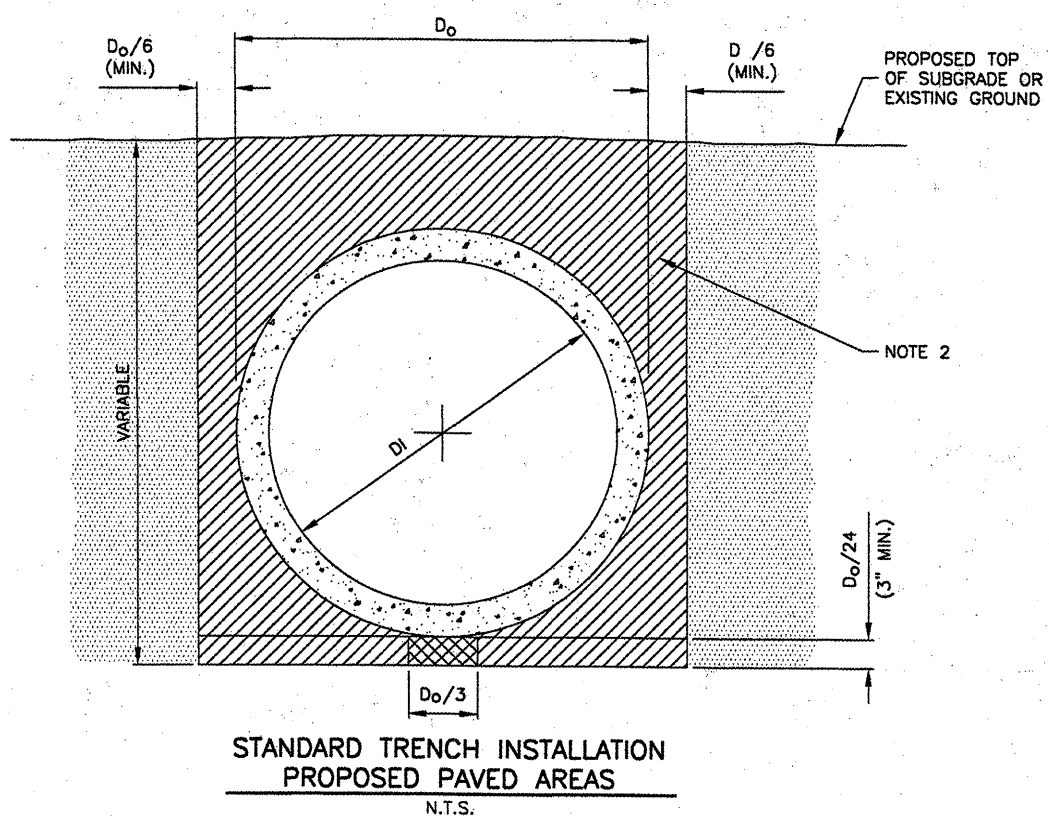
**CONSTRUCT DRAINAGE IMPROVEMENTS**  
**MANHOLE DETAILS**

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DRAWN BY:	DPA
CHECKED BY:	RLV
APPROVED BY:	RLV
DATE:	04/01/2008
JOB No:	0708502
IL PROJ NO.	BMI-3793
AIP PROJ NO.	3-17-0006-45
SHEET	23 OF 46 SHEETS



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



STANDARD TRENCH INSTALLATION  
 PROPOSED PAVED AREAS  
 N.T.S.

**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.

**REVISIONS**

NUMBER	BY	DATE

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

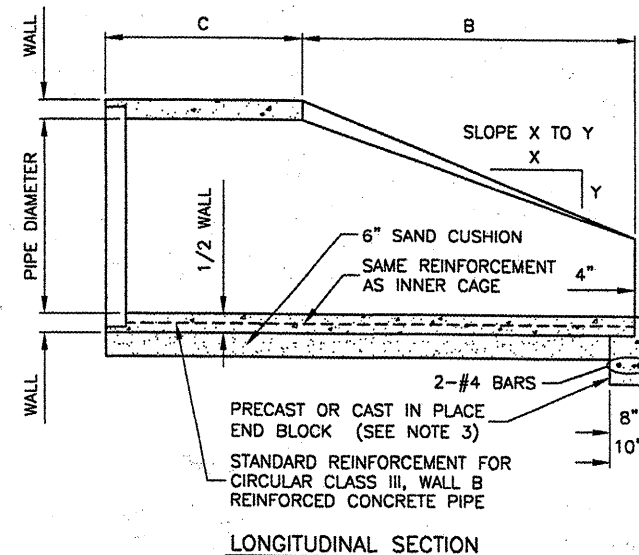
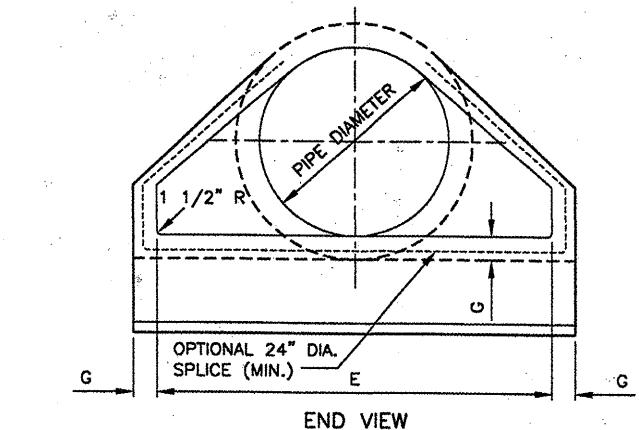
**DIMENSIONS - TABLE 1**

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

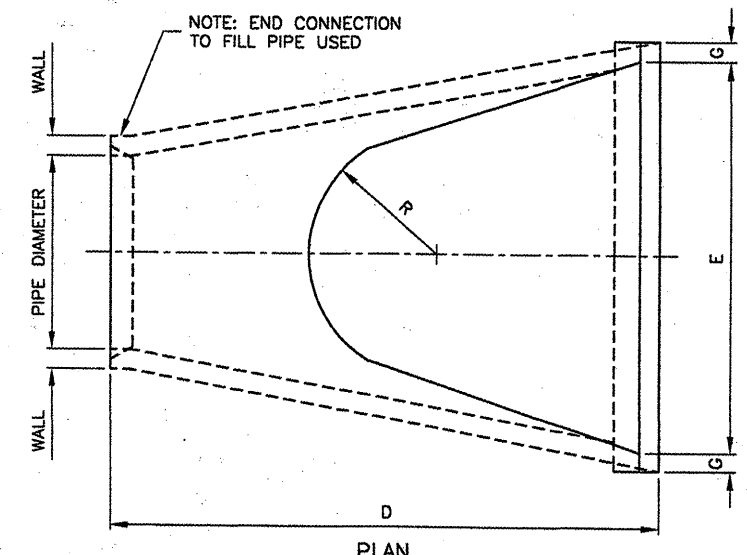
\* RADIUS AS FURNISHED BY MANUFACTURER.

**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.



PRECAST REINFORCED CONCRETE FLARED END SECTION  
 IDOT STANDAR 542301  
 N.T.S.



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

CONSTRUCT DRAINAGE IMPROVEMENTS  
 DRAINAGE DETAILS 1

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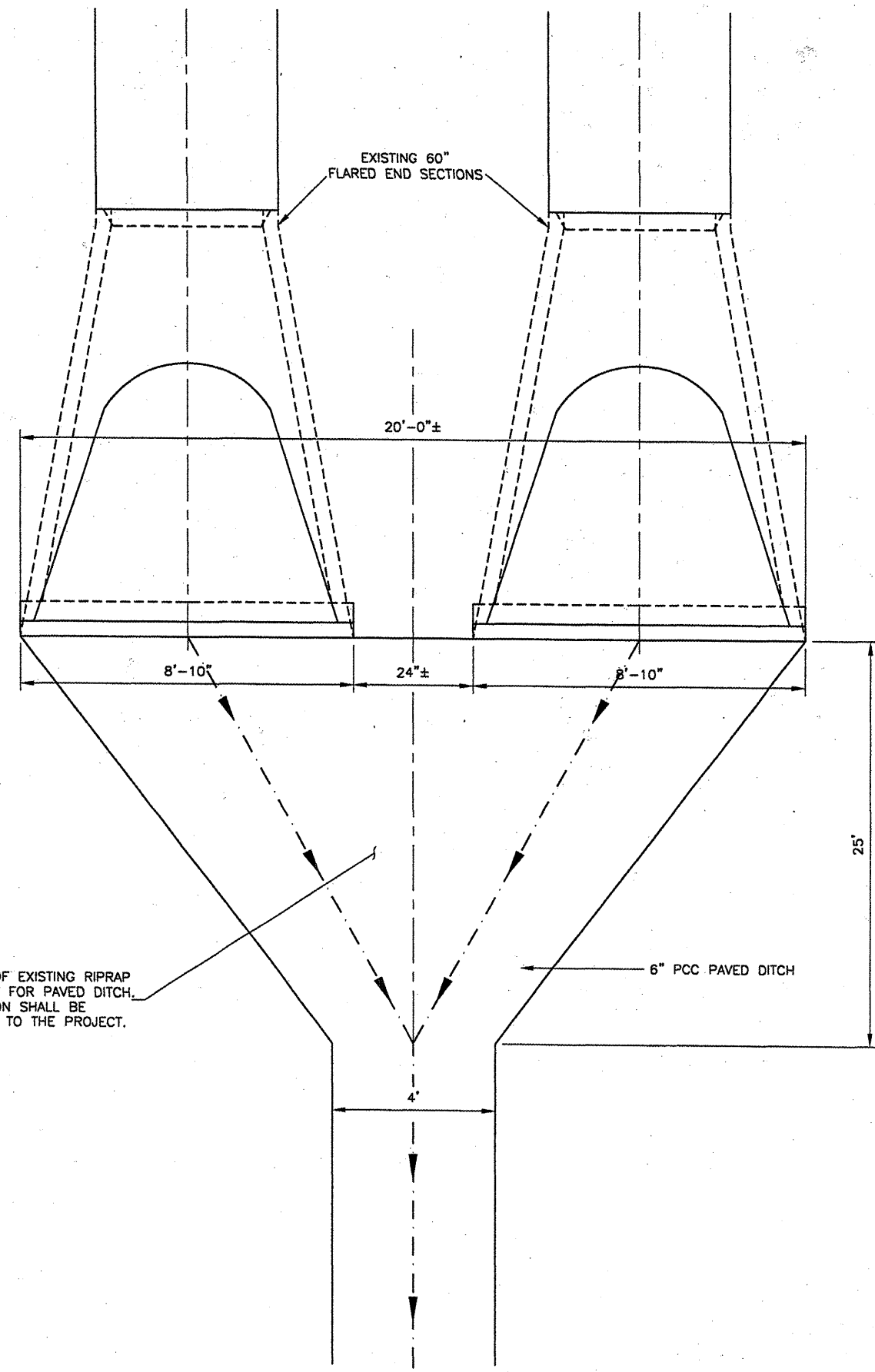
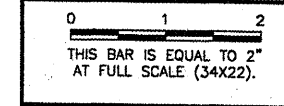
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APPROVED BY:	RLV
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JOB No:	0708502
IL PROJ NO:	BMI-3793
AIP PROJ NO:	3-17-0006-45



**BLO63**

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FILE: DRAINDET02.dwg  
UPDATE BY: Kristy Brod  
PLOT DATE: 4/14/2008 9:44 AM  
tbinfo

REVISIONS		
NUMBER	BY	DATE



REMOVAL OF EXISTING RIPRAP  
NECESSARY FOR PAVED DITCH.  
INSTALLATION SHALL BE  
INCIDENTAL TO THE PROJECT.

**TWIN 60" FES AND PAVED DITCH DETAIL**  
N.T.S.

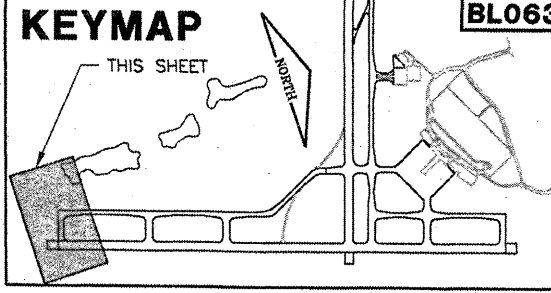
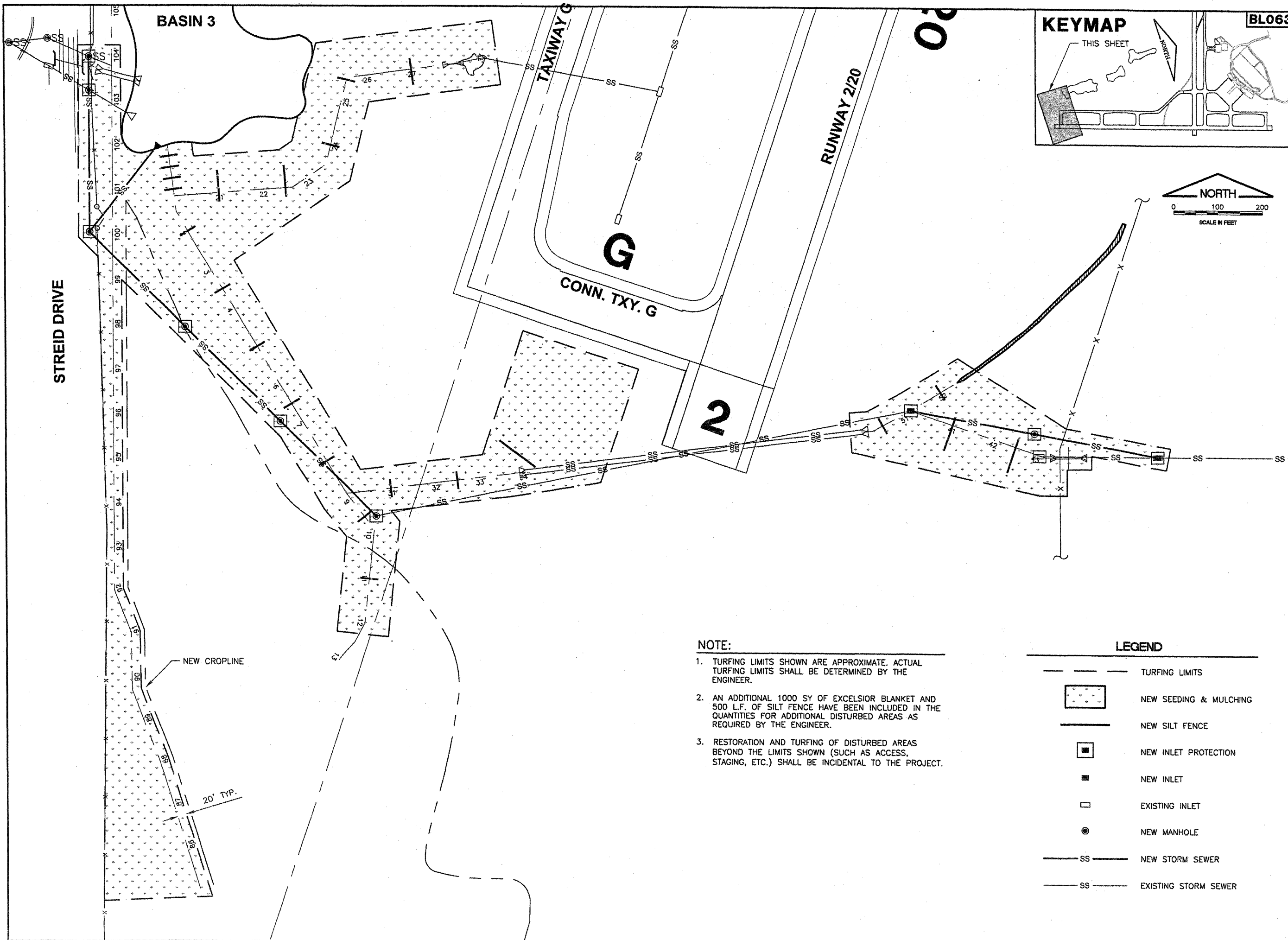
**BLOOMINGTON-NORMAL AIRPORT AUTHORITY  
CENTRAL ILLINOIS REGIONAL AIRPORT  
BLOOMINGTON, ILLINOIS**

**CONSTRUCT DRAINAGE IMPROVEMENTS  
DRAINAGE DETAILS 2**

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DRAWN BY:	DPA
CHECKED BY:	RLV
APPROVED BY:	RLV
DATE:	04/01/2008
JOB No:	0708502

IL PROJ NO. BMI-3793  
AIP PROJ NO. 3-17-0006-45  
SHEET 25 OF 46 SHEETS



**BL063**

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 BASE\_PROIMP  
 tbinfo  
 KEY

REVISIONS		
NUMBER	BY	DATE

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

- NOTE:**
1. TURFING LIMITS SHOWN ARE APPROXIMATE. ACTUAL TURFING LIMITS SHALL BE DETERMINED BY THE ENGINEER.
  2. AN ADDITIONAL 1000 SY OF EXCELSIOR BLANKET AND 500 L.F. OF SILT FENCE HAVE BEEN INCLUDED IN THE QUANTITIES FOR ADDITIONAL DISTURBED AREAS AS REQUIRED BY THE ENGINEER.
  3. RESTORATION AND TURFING OF DISTURBED AREAS BEYOND THE LIMITS SHOWN (SUCH AS ACCESS, STAGING, ETC.) SHALL BE INCIDENTAL TO THE PROJECT.

**LEGEND**

	TURFING LIMITS
	NEW SEEDING & MULCHING
	NEW SILT FENCE
	NEW INLET PROTECTION
	NEW INLET
	EXISTING INLET
	NEW MANHOLE
	NEW STORM SEWER
	EXISTING STORM SEWER

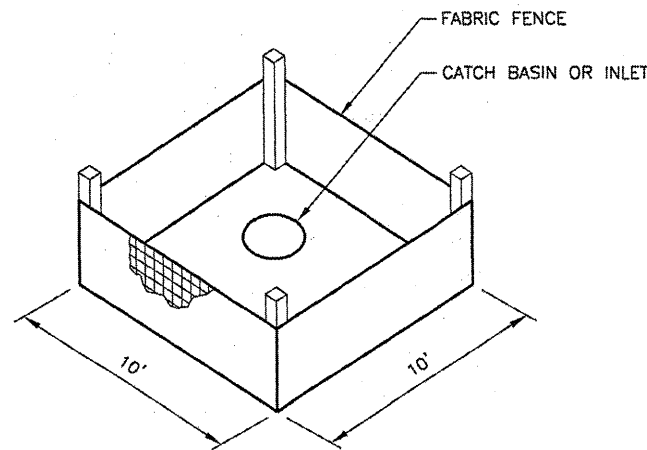
**BLOOMINGTON-NORMAL AIRPORT AUTHORITY  
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 BLOOMINGTON, ILLINOIS**

**CONSTRUCT DRAINAGE IMPROVEMENTS  
 EROSION CONTROL & TURFING PLAN**

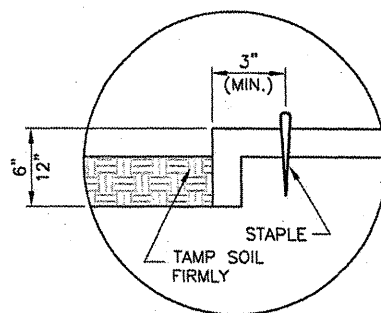
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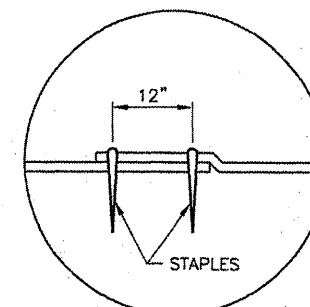
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DATE:	04/01/2008
JOB No:	0708502
IL PROJ NO.	BMI-3793
AIP PROJ NO.	3-17-0006-45
SHEET 26 OF 46 SHEETS	



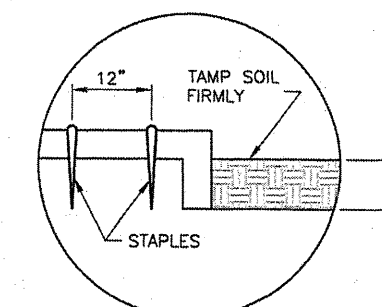
**INLET PROTECTION WITH FABRIC**  
 N.T.S.



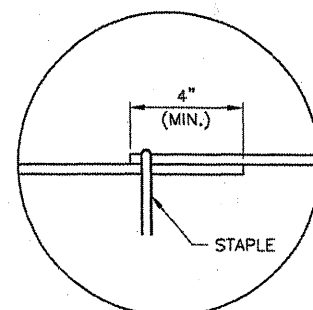
**DETAIL 1 - TERMINAL FOLD**



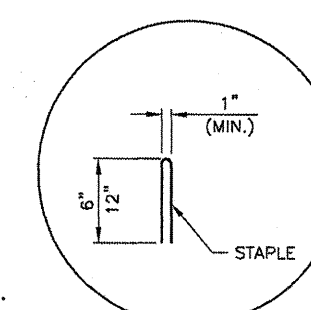
**DETAIL 2 - JUNCTION SLOT**



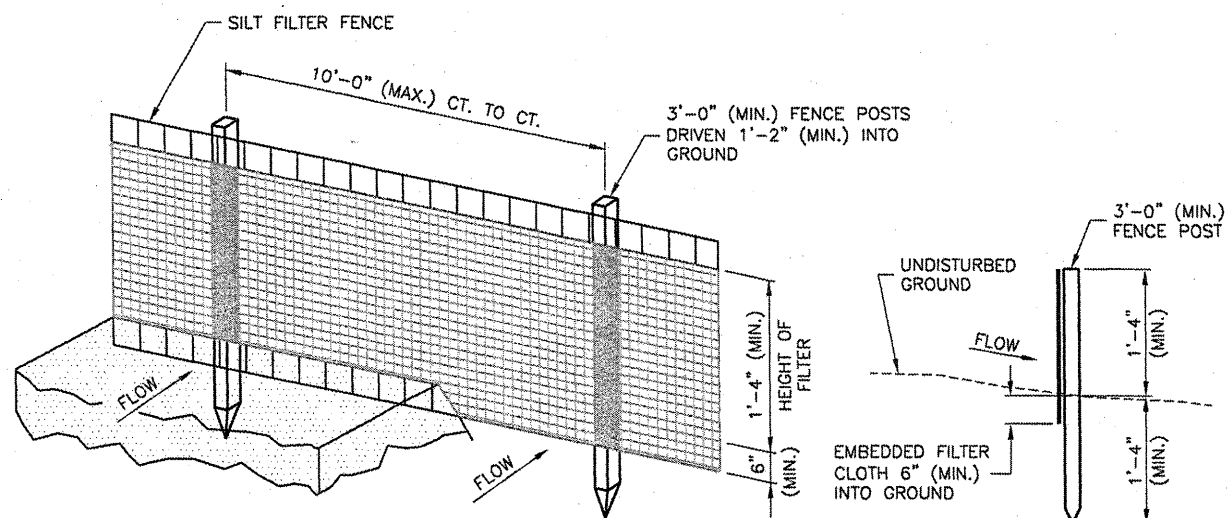
**DETAIL 3 - ANCHOR SLOT**



**DETAIL 4 - LAP JOINT**



**DETAIL 5 - STAPLE DETAIL**



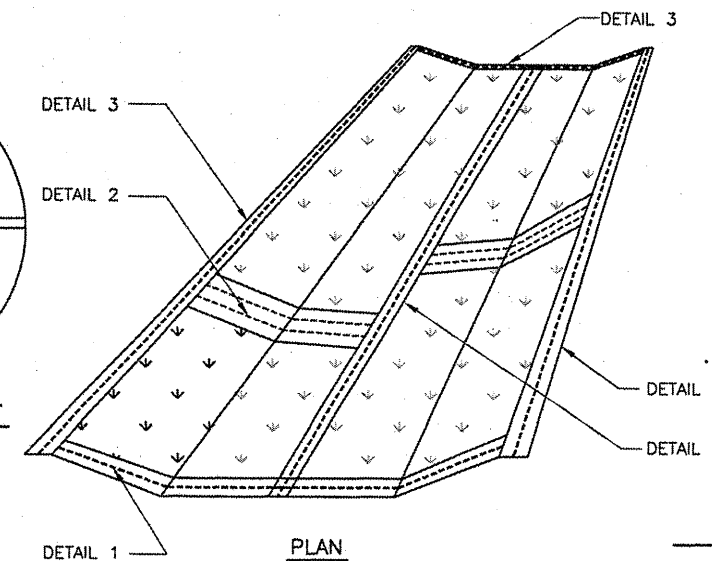
**PERSPECTIVE VIEW**

**SECTION**

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

**NOTES**

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



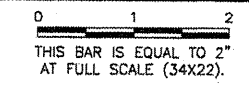
**EXCELSIOR BLANKET DETAILS**  
 N.T.S.

**NOTES**

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

REVISIONS

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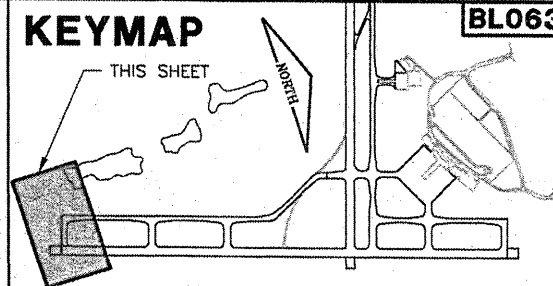
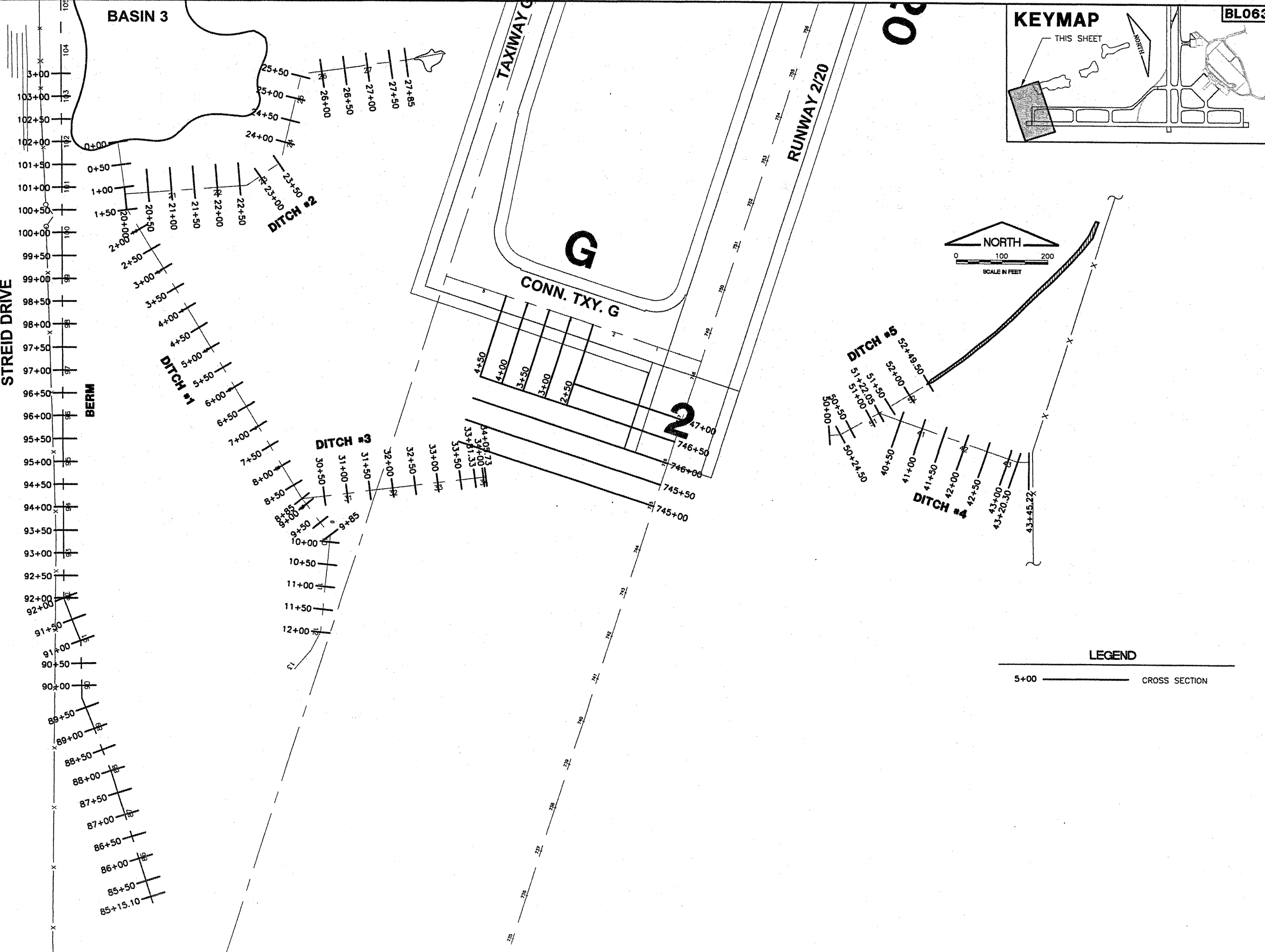


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**CONSTRUCT DRAINAGE IMPROVEMENTS  
 EROSION CONTROL DETAILS**

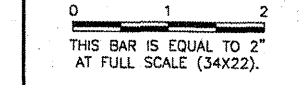
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DATE:	04/01/2008
JOB No:	0708502
IL PROJ NO.	BMI-3793
AIP PROJ NO.	3-17-0006-45
SHEET	27 OF 46 SHEETS



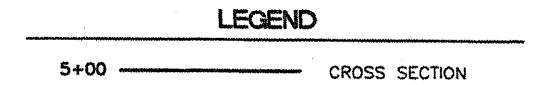
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NUMBER	BY	DATE



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CONSTRUCT DRAINAGE IMPROVEMENTS  
 INDEX TO CROSS SECTIONS



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APPROVED BY:	RLV
DATE:	04/01/2008
JOB No:	0708502
IL PROJ NO.	BMI-3793
AIP PROJ NO.	3-17-0006-45
SHEET 28 OF 46 SHEETS	



**EARTHWORK SUMMARY**

STATION	STATION NUMBER	DISTANCE	EXCAVATE END AREA (S.F.)	CUT VOLUME (C.Y.)	EMBANK END AREA (S.F.)	FILL VOLUME (C.Y.)
<b>DITCH #1</b>						
0+00	0.00	0.0	0.0	0.0	0.0	0.0
0+50	50.00	50.00	15.6	14.4	0.0	0.0
1+00	100.00	50.00	14.3	27.7	0.0	0.0
1+50	150.00	50.00	13.8	26.1	0.0	0.0
2+00	200.00	50.00	45.1	54.6	0.0	0.0
2+50	250.00	50.00	13.5	54.3	0.0	0.0
3+00	300.00	50.00	10.3	22.1	5.0	4.6
3+50	350.00	50.00	16.9	25.2	0.0	4.6
4+00	400.00	50.00	18.8	33.1	0.0	0.0
4+50	450.00	50.00	24.7	40.3	0.0	0.0
5+00	500.00	50.00	47.3	66.6	0.0	0.0
5+50	550.00	50.00	4.2	47.6	2.2	2.0
6+00	600.00	50.00	3.1	6.7	0.5	2.6
6+50	650.00	50.00	13.6	15.4	0.0	0.5
7+00	700.00	50.00	14.9	26.4	0.0	0.0
7+50	750.00	50.00	19.7	32.0	0.0	0.0
8+00	800.00	50.00	45.0	59.9	1.5	1.4
8+50	850.00	50.00	13.0	53.7	0.0	1.4
8+85	885.00	35.00	6.1	12.3	0.0	0.0
9+00	900.00	15.00	8.5	4.0	0.0	0.0
9+50	950.00	50.00	12.3	19.2	50.1	46.4
9+85	985.00	35.00	16.4	18.6	0.0	32.5
10+00	1000.00	15.00	16.5	9.2	0.0	0.0
10+50	1050.00	50.00	9.7	24.3	0.0	0.0
11+00	1100.00	50.00	6.9	15.4	0.0	0.0
11+50	1150.00	50.00	2.0	8.3	2.1	1.9
12+00	1200.00	50.00	0.0	1.9	0.0	1.9

STATION	STATION NUMBER	DISTANCE	EXCAVATE END AREA (S.F.)	CUT VOLUME (C.Y.)	EMBANK END AREA (S.F.)	FILL VOLUME (C.Y.)
<b>DITCH #2</b>						
20+00	2000.00	0.00	53.8	0.0	0.0	0.0
20+50	2050.00	50.00	28.7	76.4	6.1	5.7
21+00	2100.00	50.00	47.0	70.1	0.0	5.7
21+50	2150.00	50.00	57.8	97.0	0.0	0.0
22+00	2200.00	50.00	50.1	99.9	0.0	0.0
22+50	2250.00	50.00	49.0	91.7	0.0	0.0
23+00	2300.00	50.00	61.8	102.6	0.0	0.0
23+50	2350.00	50.00	26.6	81.8	0.0	0.0
24+00	2400.00	50.00	35.6	57.6	0.0	0.0
24+50	2450.00	50.00	35.3	65.7	0.0	0.0
25+00	2500.00	50.00	32.4	62.7	0.1	0.1
25+50	2550.00	50.00	36.5	63.8	0.0	0.1
26+00	2600.00	50.00	31.1	62.6	0.3	0.2
26+50	2650.00	50.00	29.2	55.9	1.4	1.5
27+00	2700.00	50.00	28.4	53.4	0.0	1.3
27+50	2750.00	50.00	13.6	38.9	6.4	6.0
28+00	2800.00	50.00	6.7	18.8	1.8	7.6
28+50	2850.00	50.00	2.1	8.2	6.0	7.2

**EARTHWORK SUMMARY**

STATION	CUT VOLUME (C.Y.)	FILL VOLUME (C.Y.)
<b>DITCH #3</b>		
30+50	0.0	0.0
31+00	30.1	2.5
31+50	34.5	5.6
32+00	52.3	8.6
32+50	50.3	13.5
33+00	30.1	14.8
33+50	18.3	12.5
33+81.33	3.7	13.8
34+00	1.8	6.9
34+05.73	2.0	0.4

STATION	CUT VOLUME (C.Y.)	FILL VOLUME (C.Y.)
<b>DITCH #4</b>		
40+50	0.0	0.0
41+00	150.6	8.7
41+50	172.7	11.5
42+00	157.1	11.7
42+50	103.1	10.7
43+00	52.8	9.7
43+20.30	4.3	8.3
43+45.22	22.6	8.0

STATION	CUT VOLUME (C.Y.)	FILL VOLUME (C.Y.)
<b>DITCH #5</b>		
50+00	0.0	0.0
50+24.50	0.7	4.4
50+50	5.0	8.3
51+00	38.9	7.3
51+22.05	30.7	0.0
51+50	41.5	0.0
52+00	56.1	0.0
52+49.50	32.1	0.1

**EARTHWORK SUMMARY**

STATION	EXCAVATE END AREA (S.F.)	EMBANK END AREA (S.F.)
<b>BERM</b>		
85+15.10	0.0	0.0
85+50	0.0	3.2
86+00	0.0	5.5
86+50	0.0	1.1
87+00	0.0	0.0
87+50	0.0	0.0
88+00	0.0	0.0
88+50	0.0	0.0
89+00	0.0	0.0
89+50	0.0	0.0
90+00	0.0	0.0
90+50	0.0	0.0
91+00	0.0	0.0
91+50	0.0	6.1
92+00	0.0	10.7
92+50	0.0	7.6
93+00	0.0	0.0
93+50	0.0	0.0
94+00	0.0	0.0
94+50	0.0	0.0
95+00	0.0	0.0
95+50	0.0	0.0
96+00	0.0	0.0
96+50	0.0	0.0
97+00	0.0	4.7
97+50	0.0	7.0
98+00	0.0	16.1
98+50	0.0	31.9
99+00	0.0	55.5
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100+00	0.0	91.5
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101+00	0.0	111.6
101+50	0.0	99.5
102+00	0.0	9.5
102+50	0.0	12.3
103+00	0.0	2.5
103+50	0.0	0.0

**EARTHWORK SUMMARY**

STATION	EXCAVATE END AREA (S.F.)	EMBANK END AREA (S.F.)
<b>TAXIWAY G</b>		
2+50	2.2	5.8
3+00	3.0	3.4
3+50	2.7	19.6
4+00	15.2	1.7
4+50	0.0	0.0

STATION	EXCAVATE END AREA (S.F.)	EMBANK END AREA (S.F.)
<b>RUNWAY 2/20</b>		
745+00	19.5	36.4
745+50	27.9	56.2
746+00	44.9	51.8
746+50	3.3	74.9
747+00	0.0	0.0

**BL063**

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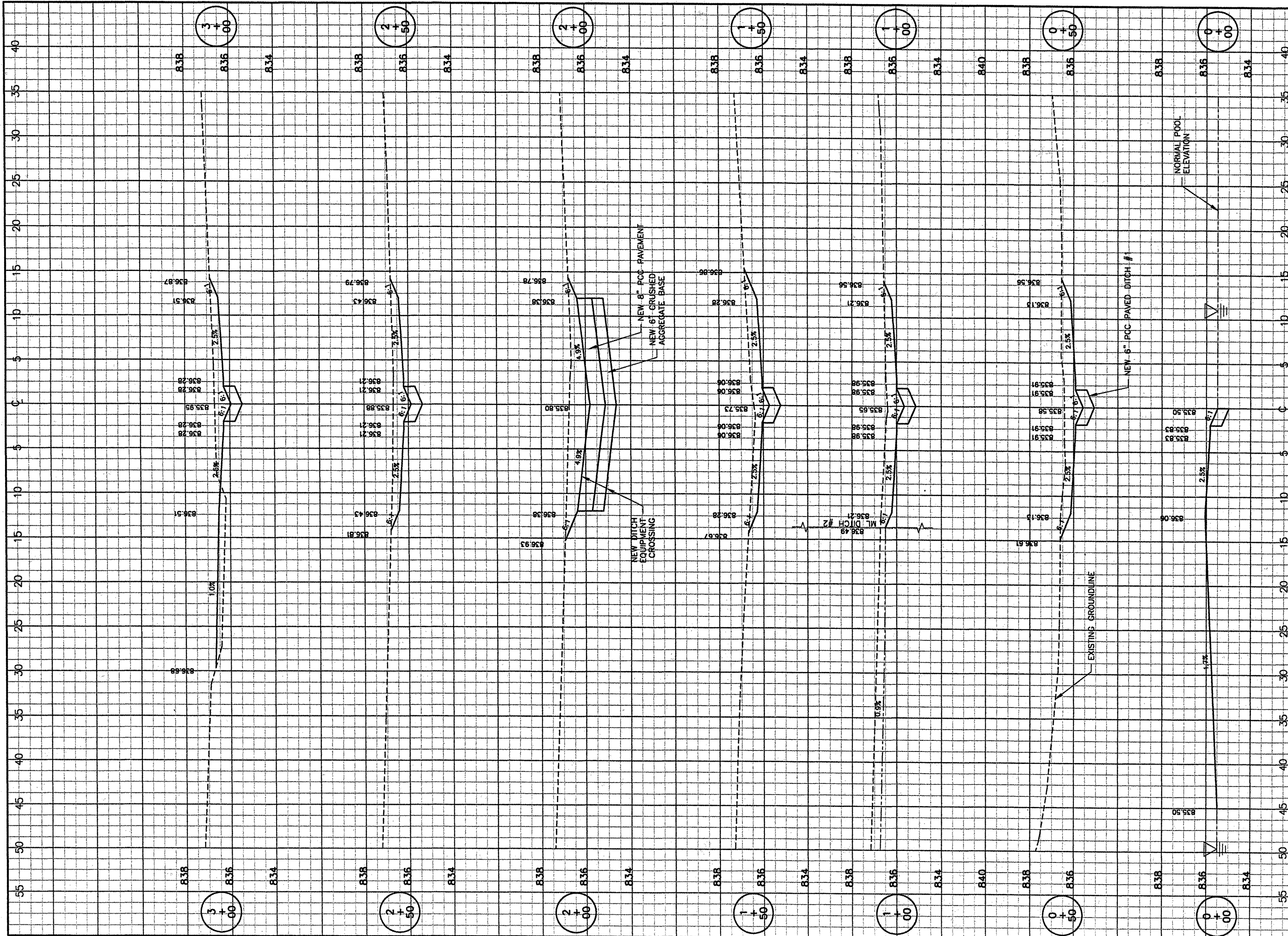
**BLOOMINGTON-NORMAL AIRPORT AUTHORITY  
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 BLOOMINGTON, ILLINOIS**

**CONSTRUCT DRAINAGE IMPROVEMENTS  
 EARTHWORK SUMMARY**

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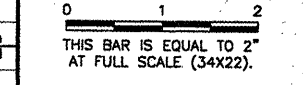
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IL PROJ NO. BMI-3793  
 AIP PROJ NO. 3-17-0006-45



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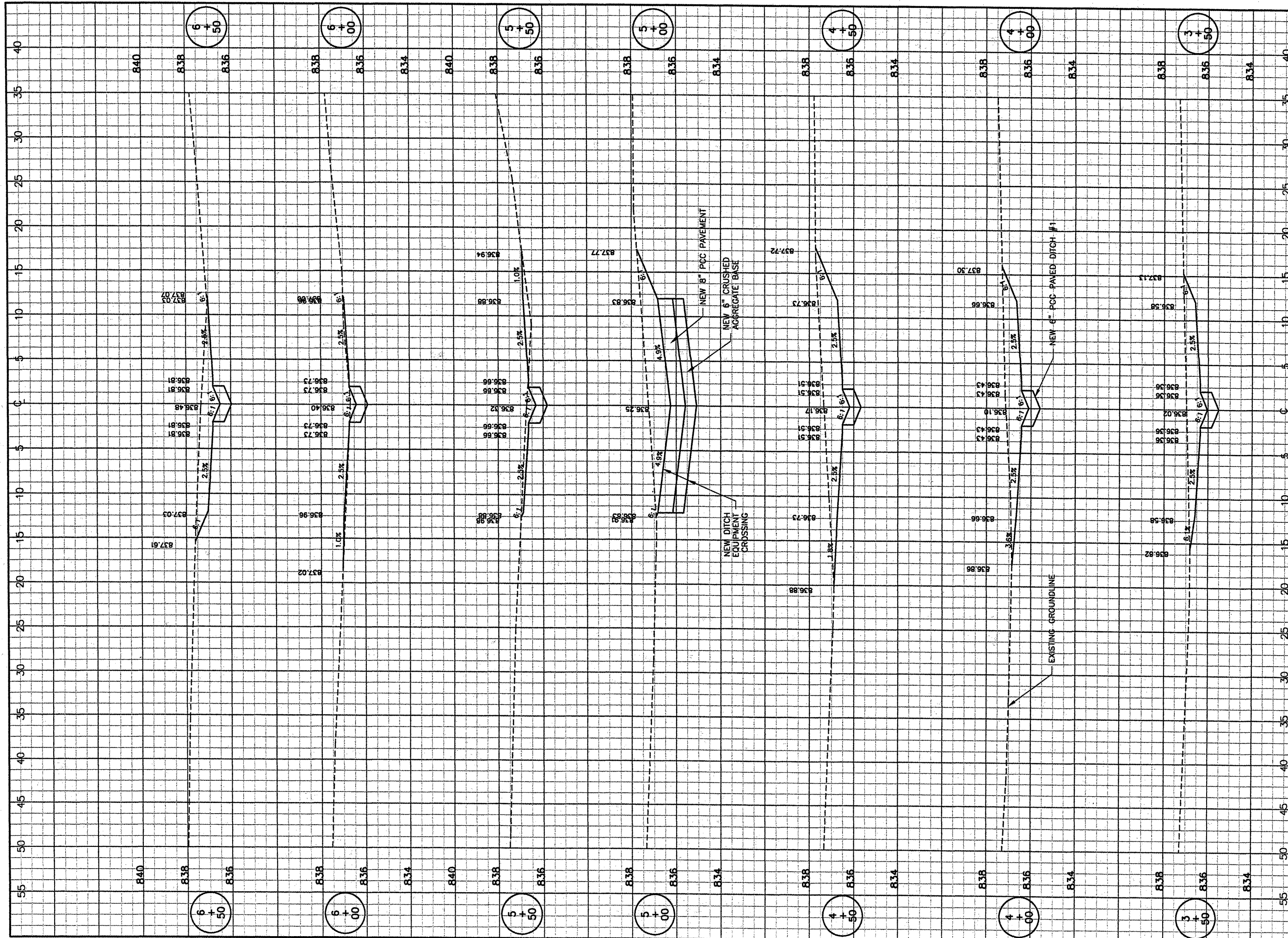
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 BLOOMINGTON, ILLINOIS**

**CONSTRUCT DRAINAGE IMPROVEMENTS  
 DITCH 1  
 CROSS SECTIONS 1  
 STA. 0+00 TO STA. 3+00**

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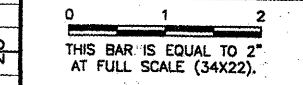
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IL PROJ. NO.	BMI-3793
AIP PROJ. NO.	3-17-0006-45
SHEET 30 OF 48 SHEETS	





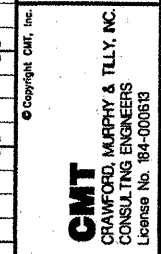
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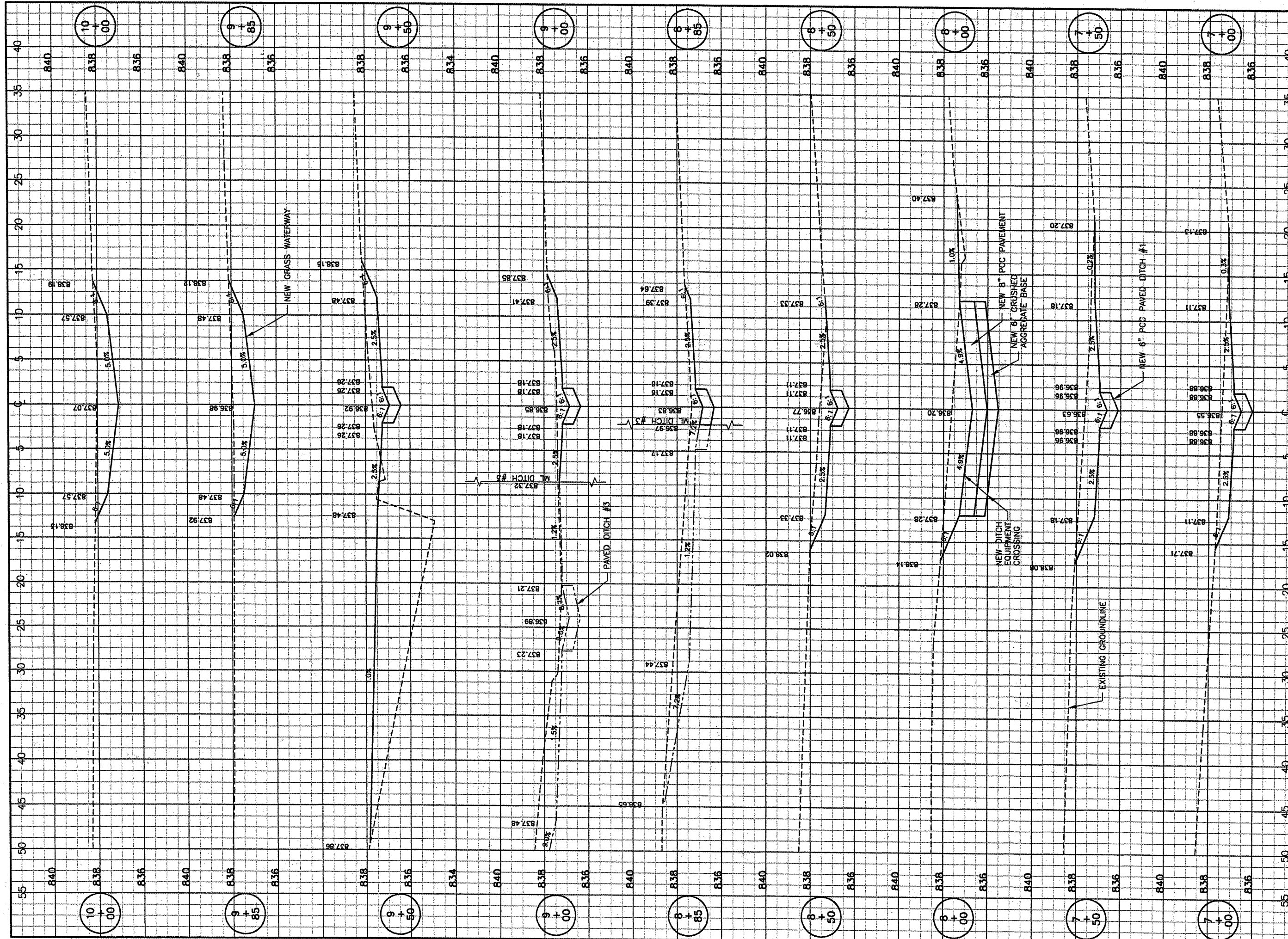
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 BLOOMINGTON, ILLINOIS**

**CONSTRUCT DRAINAGE IMPROVEMENTS  
 DITCH 1  
 CROSS SECTIONS 2  
 STA. 3+50 TO STA. 6+50**



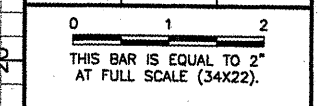
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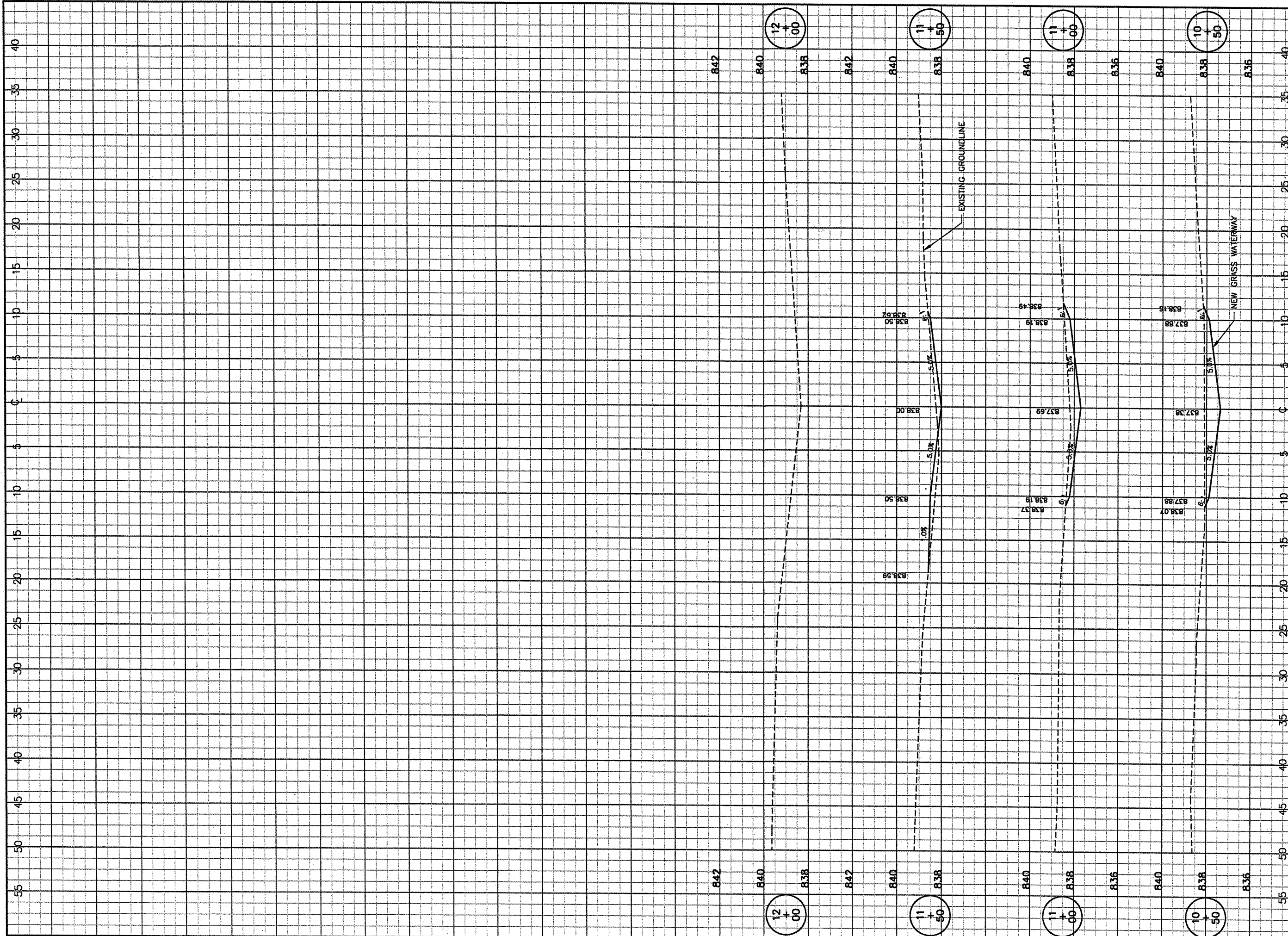


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**CONSTRUCT DRAINAGE IMPROVEMENTS  
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 STA. 7+00 TO STA. 10+00**

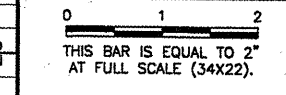
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APPROVED BY:	<i>RW</i>
DATE:	04/01/2008
JOB No:	0708502
IL PROJ NO.	BMI-3793
AIP PROJ NO.	3-17-0006-45
SHEET	32 OF 46 SHEETS



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**CONSTRUCT DRAINAGE IMPROVEMENTS  
 DITCH 1  
 CROSS SECTIONS 4  
 STA. 10+50 TO STA. 12+00**

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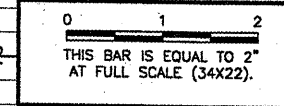
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CHECKED BY:	<i>RW</i>
APPROVED BY:	<i>RW</i>
DATE:	04/01/2008
JOB No:	0708502
IL PROJ NO.	BMI-3793
AIP PROJ NO.	3-17-0006-45
SHEET	33 OF 46 SHEETS





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 PLOT DATE: 4/14/2008 9:45 AM  
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 CENTRAL ILLINOIS REGIONAL AIRPORT  
 BLOOMINGTON, ILLINOIS**

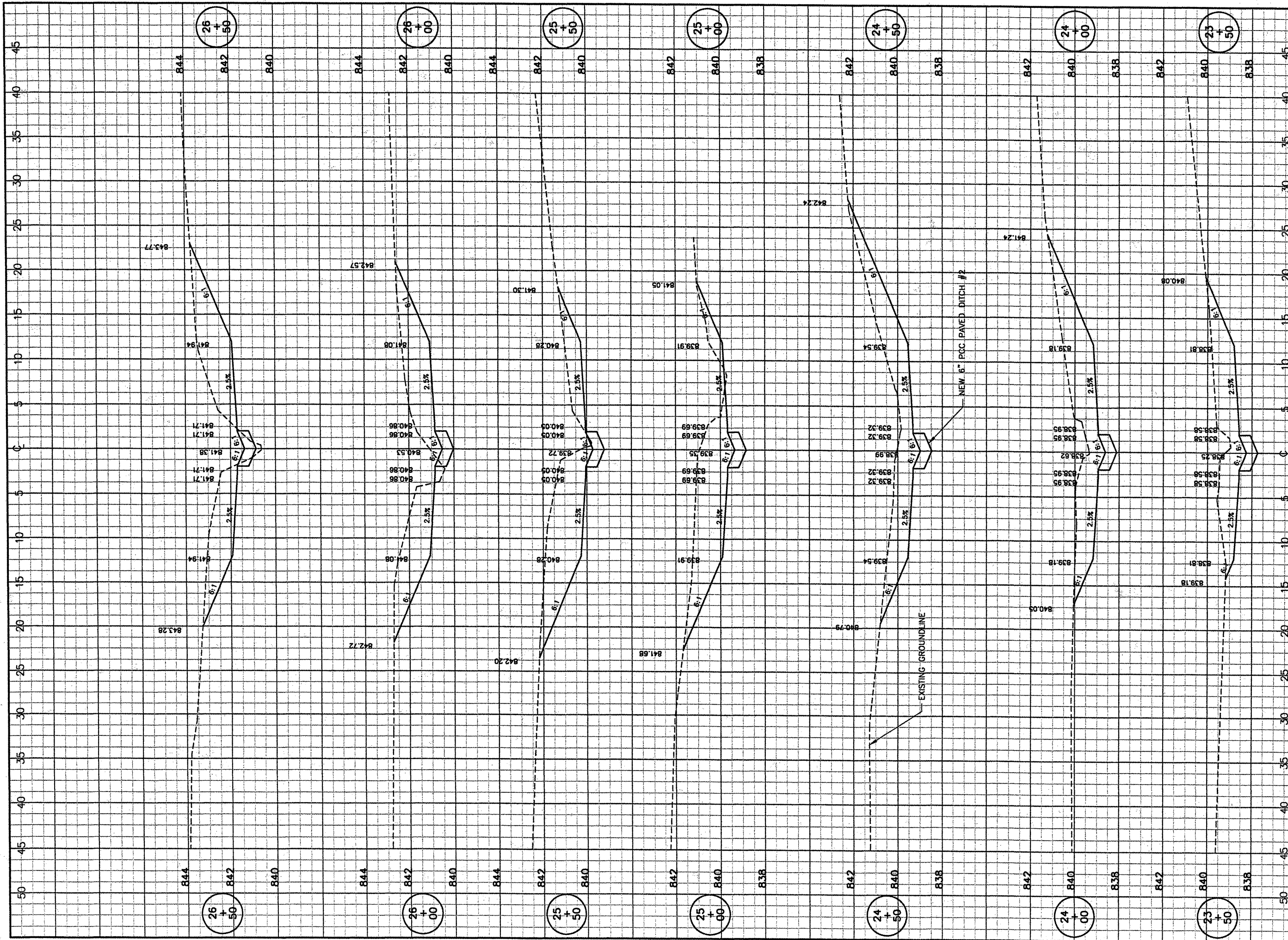
**CONSTRUCT DRAINAGE IMPROVEMENTS  
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 CROSS SECTIONS 1  
 STA. 20+00 TO STA. 23+00**

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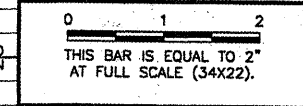
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JOB No:	0708502
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AIP PROJ NO.	3-17-0006-45
SHEET 34 OF 46 SHEETS	





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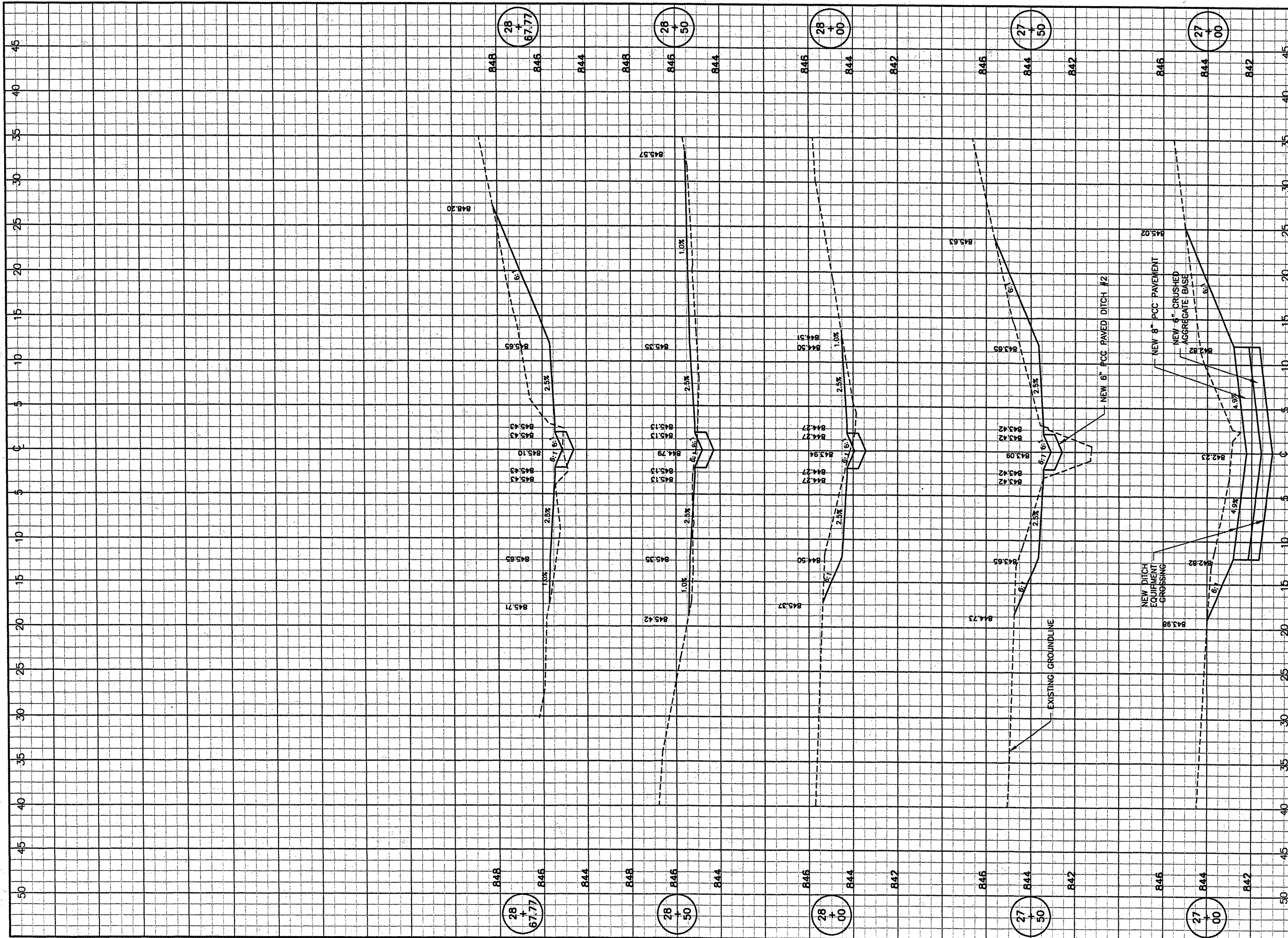


**BLOOMINGTON-NORMAL AIRPORT AUTHORITY  
 CENTRAL ILLINOIS REGIONAL AIRPORT  
 BLOOMINGTON, ILLINOIS**

**CONSTRUCT DRAINAGE IMPROVEMENTS  
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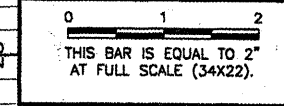
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JOB No:	0708502
IL PROJ NO.	BMI-3793
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SHEET	35 OF 46 SHEETS



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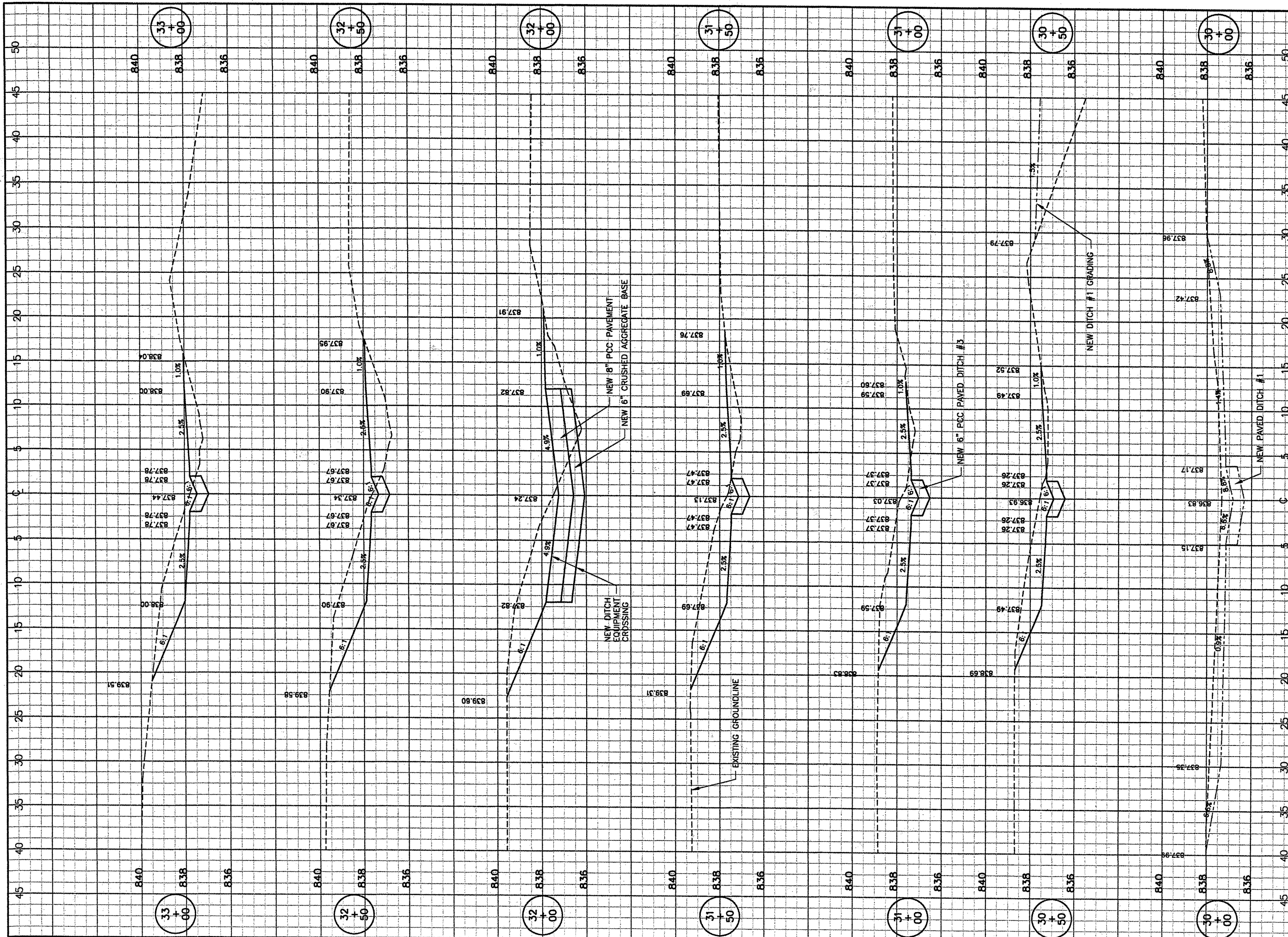
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**CONSTRUCT DRAINAGE IMPROVEMENTS  
 DITCH 2  
 CROSS SECTIONS 3  
 STA. 27+00 TO STA. 27+85**

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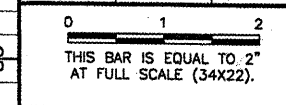
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AIP PROJ NO.	3-17-0006-45
SHEET 36 OF 46 SHEETS	






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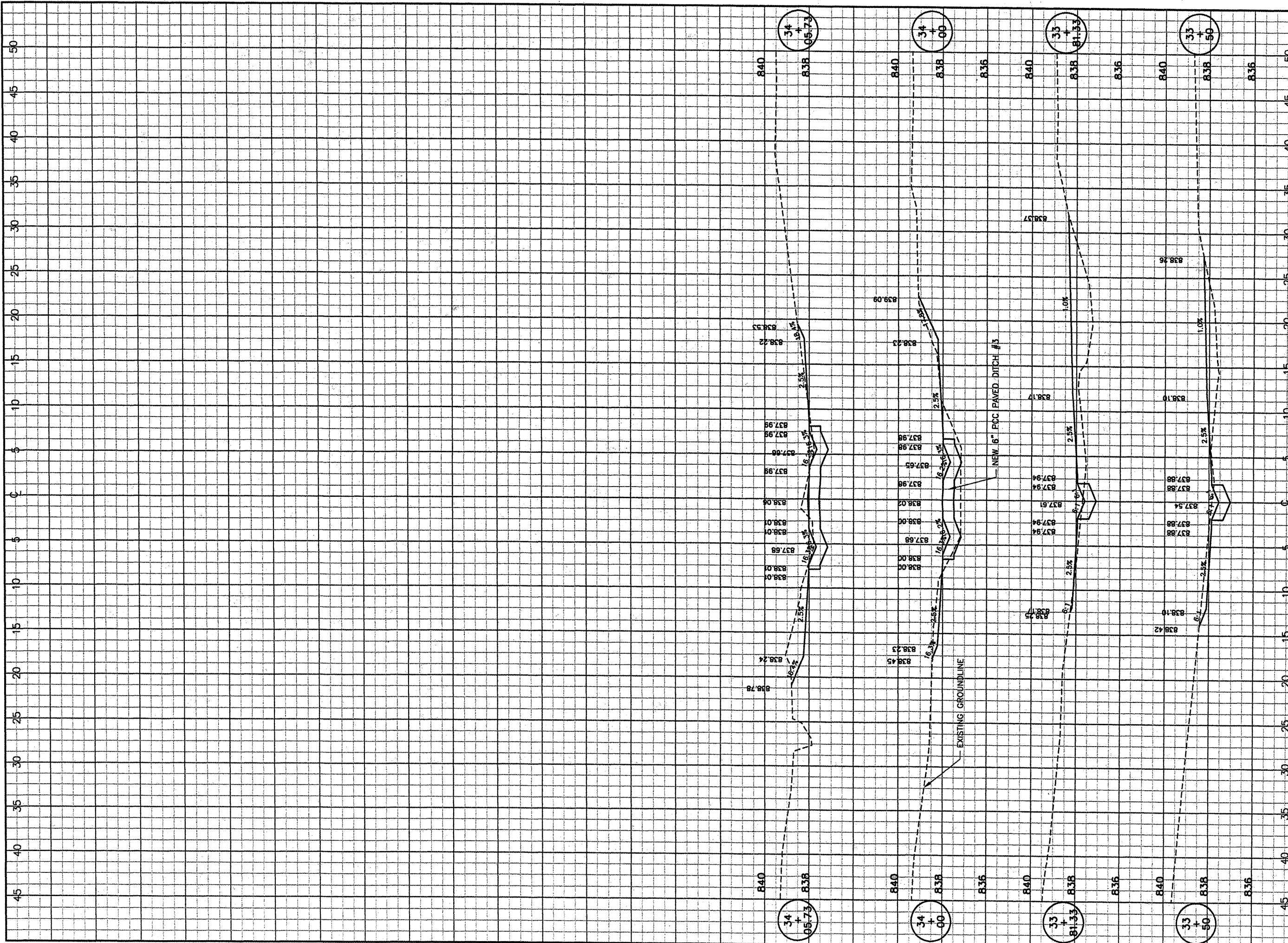
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**CONSTRUCT DRAINAGE IMPROVEMENTS**  
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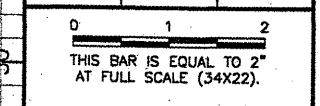

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SHEET	37 OF 46 SHEETS



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 CENTRAL ILLINOIS REGIONAL AIRPORT  
 BLOOMINGTON, ILLINOIS**

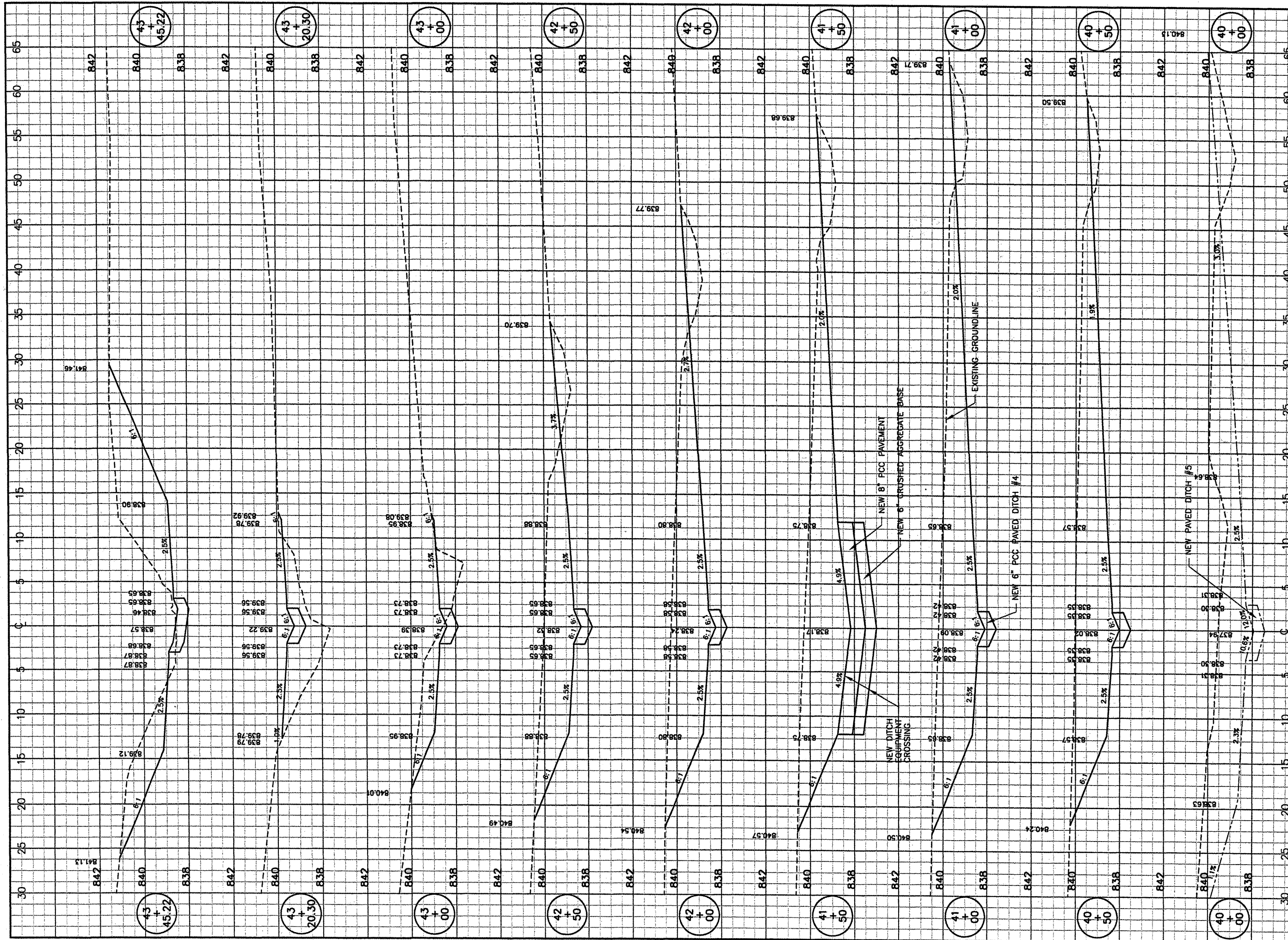
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IL PROJ NO.	BMI-3793
AIP PROJ NO.	3-17-0006-45
SHEET 38	OF 46 SHEETS





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 UPDATE BY: Kristy Brod  
 PLOT DATE: 4/14/2008 9:46 AM  
 rc001006

REVISIONS		
NUMBER	BY	DATE

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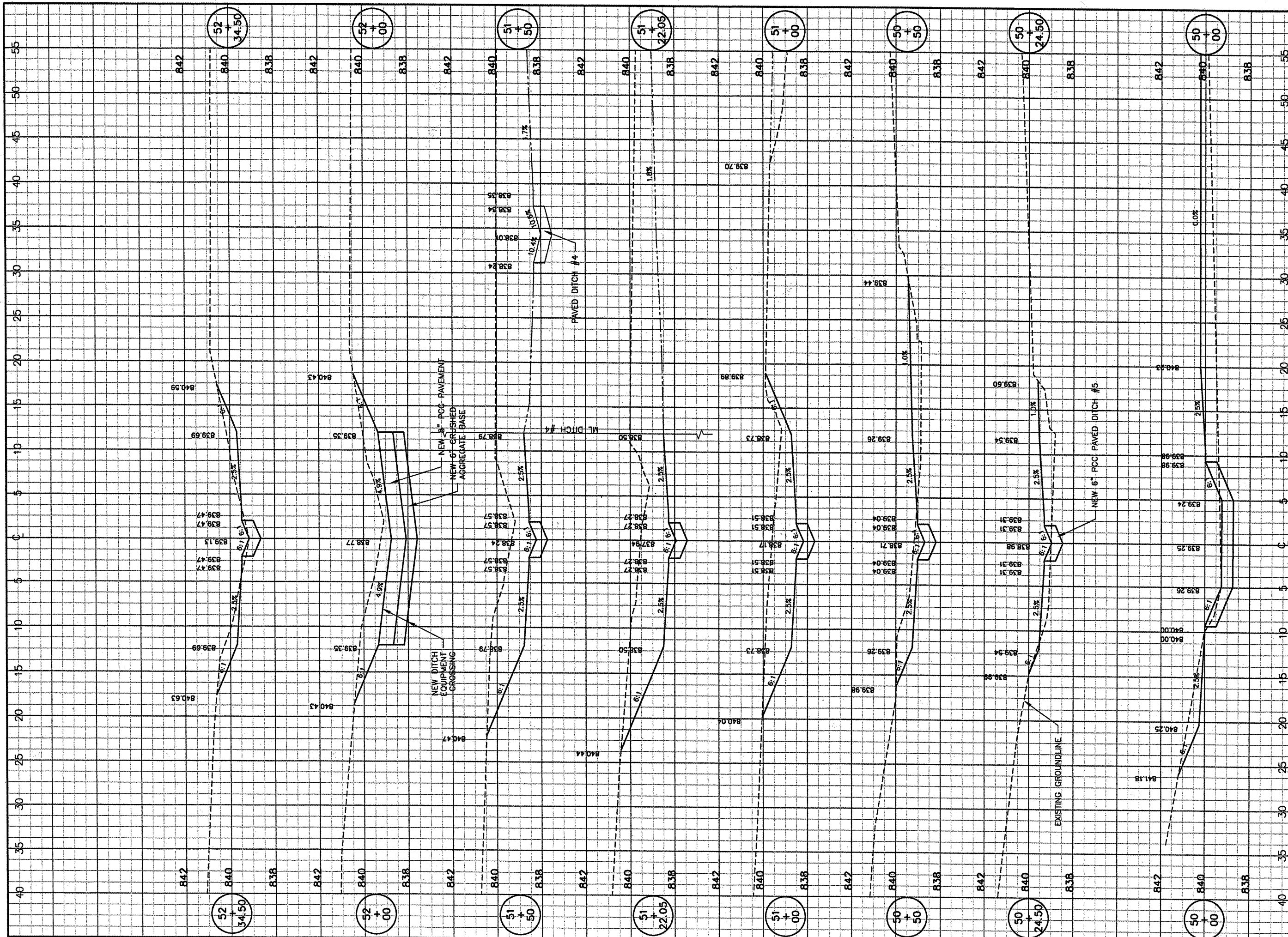
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 CENTRAL ILLINOIS REGIONAL AIRPORT  
 BLOOMINGTON, ILLINOIS**

**CONSTRUCT DRAINAGE IMPROVEMENTS  
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 CROSS SECTIONS  
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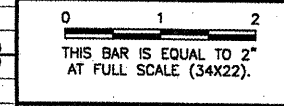
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JOB No:	0708502
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AIP PROJ NO.	3-17-0006-45

SHEET 39 OF 46 SHEETS



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 BLOOMINGTON, ILLINOIS**

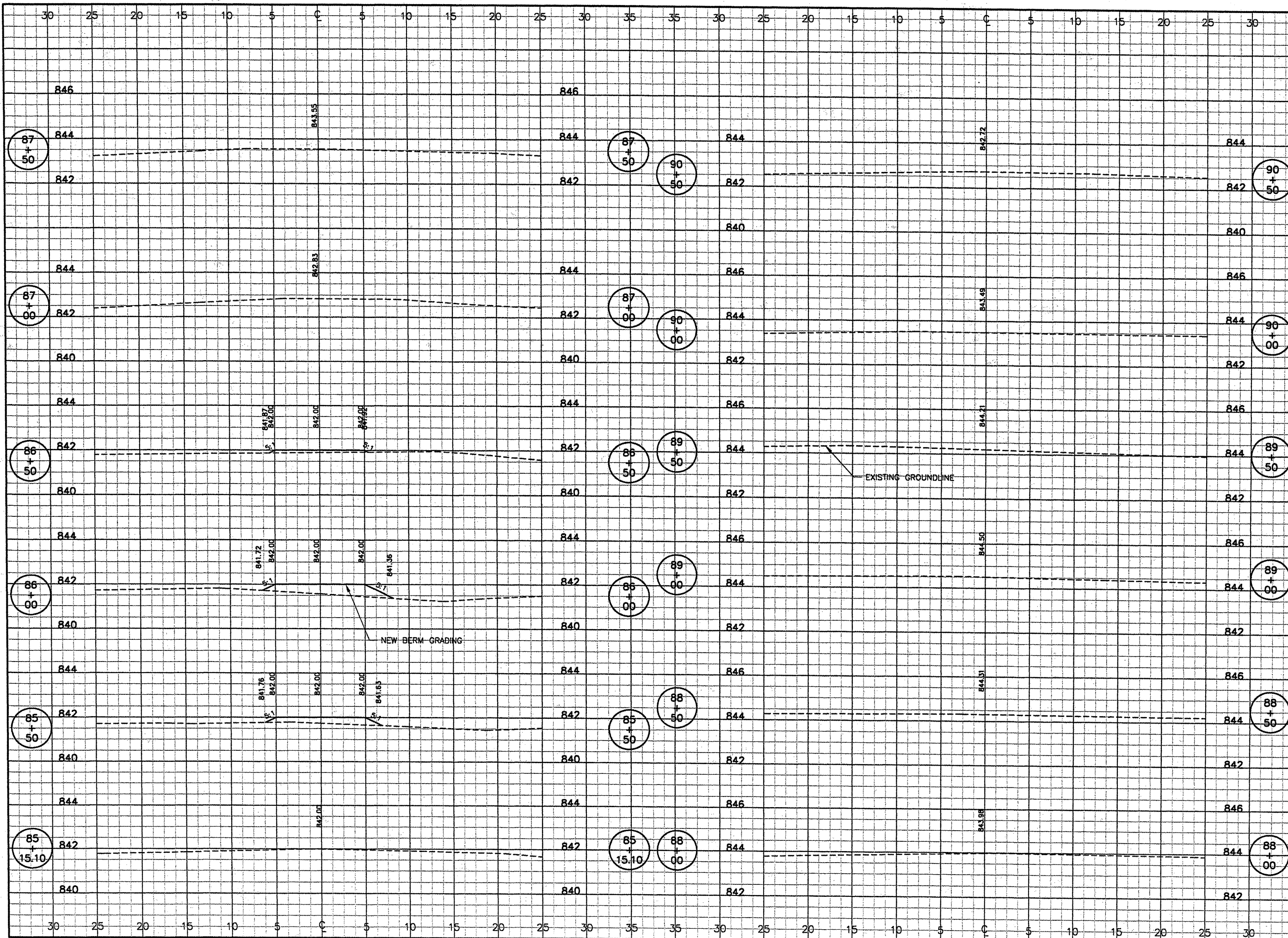
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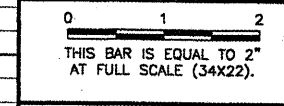
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 AIP PROJ NO. 3-17-0006-45  
 SHEET 40 OF 46 SHEETS





REVISIONS		
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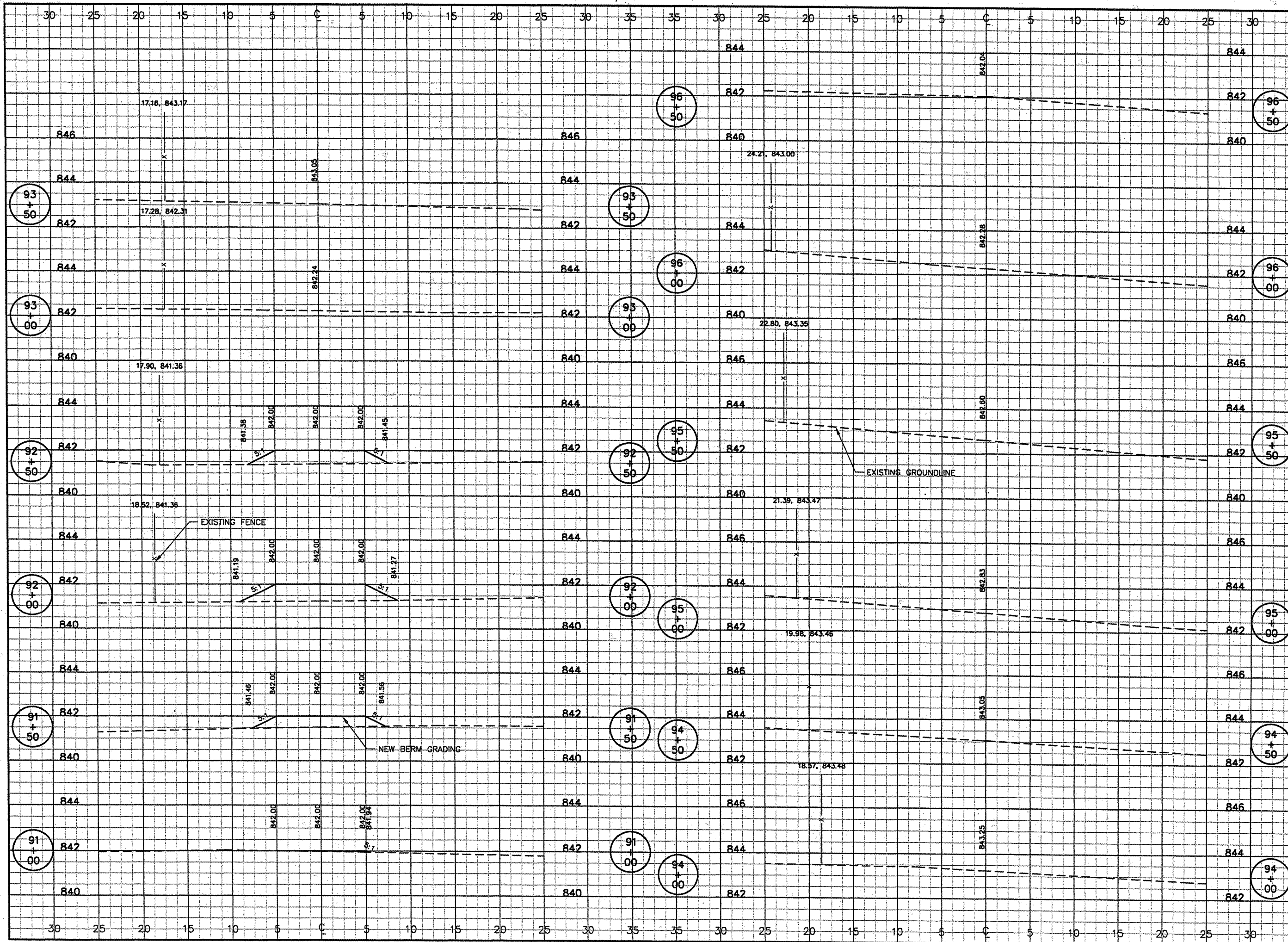
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**BLOOMINGTON, ILLINOIS**

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**BERM**  
**CROSS SECTIONS 1**  
**STA. 85+15.10 TO STA. 90+50**

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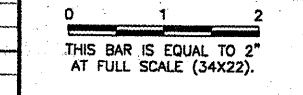
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IL PROJ NO.	BMI-3793
AIP PROJ NO.	3-17-0006-45
SHEET 41 OF 46 SHEETS	



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**CONSTRUCT DRAINAGE IMPROVEMENTS**  
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**STA. 91+00 TO STA. 96+50**

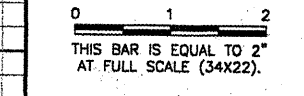
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IL PROJ NO. BMI-3793  
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 SHEET 42 OF 46 SHEETS



REVISIONS		
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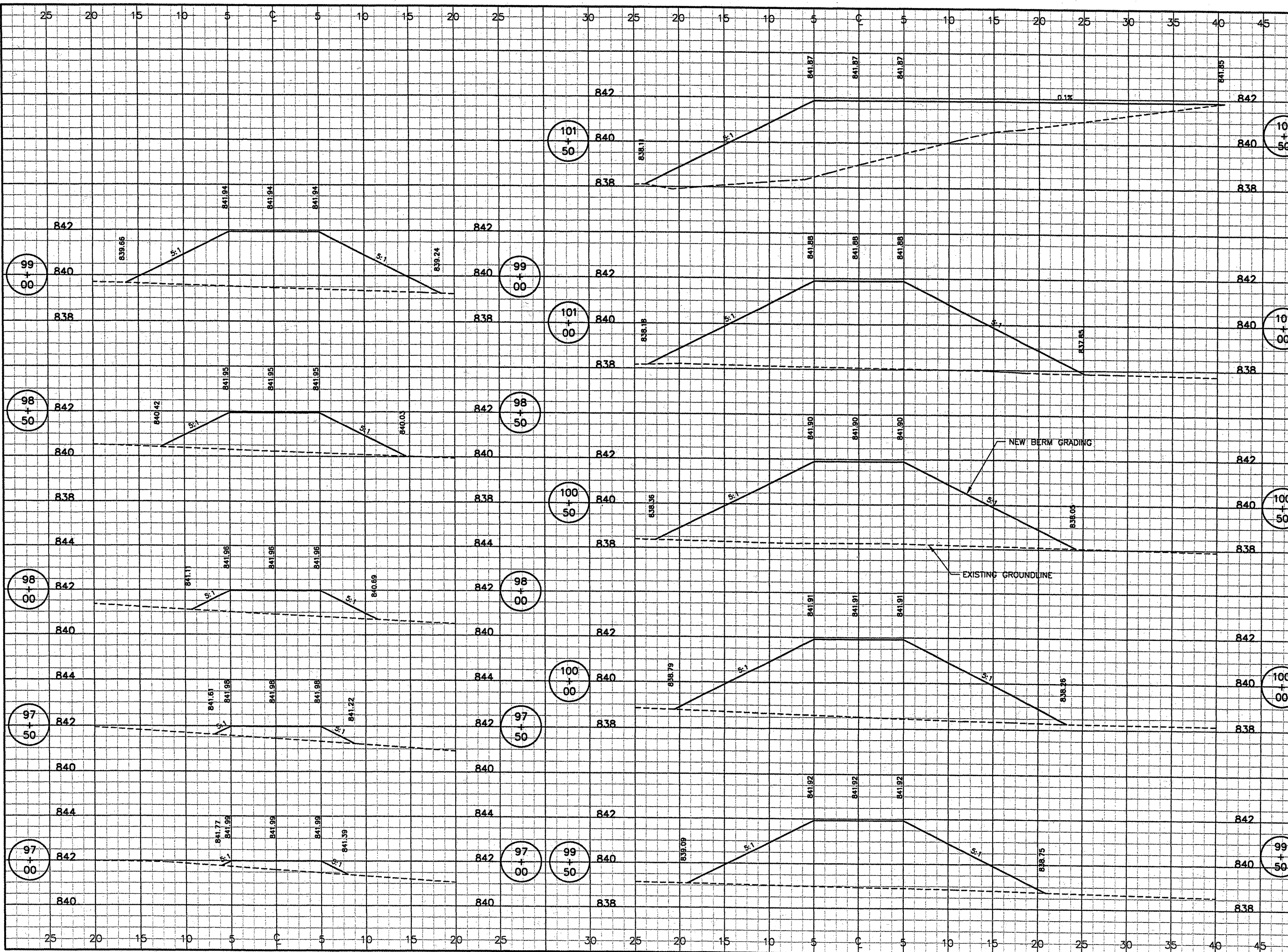
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CONSTRUCT DRAINAGE IMPROVEMENTS  
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 CROSS SECTIONS 3  
 STA. 97+00 TO STA. 101+50

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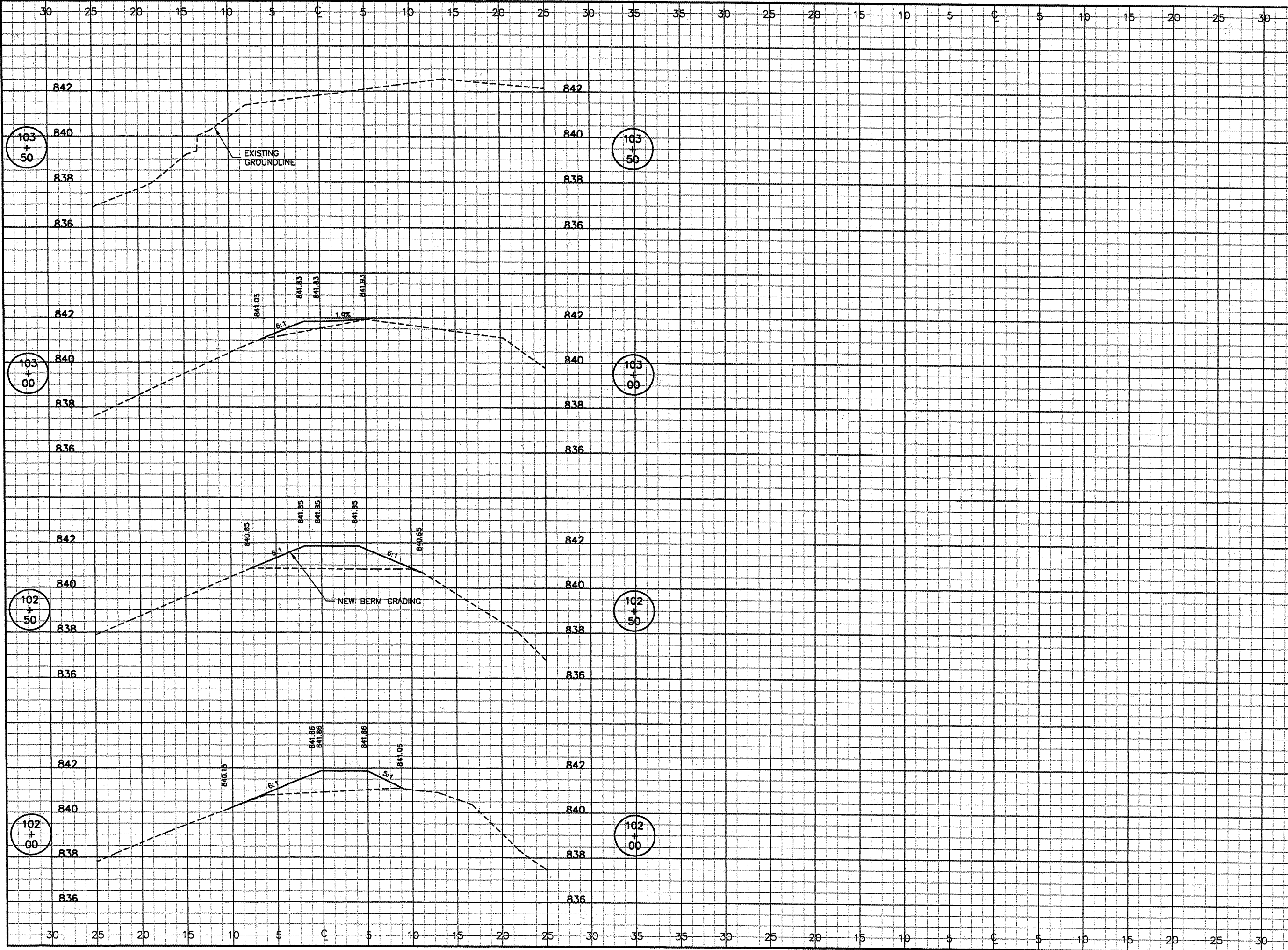
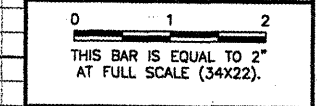
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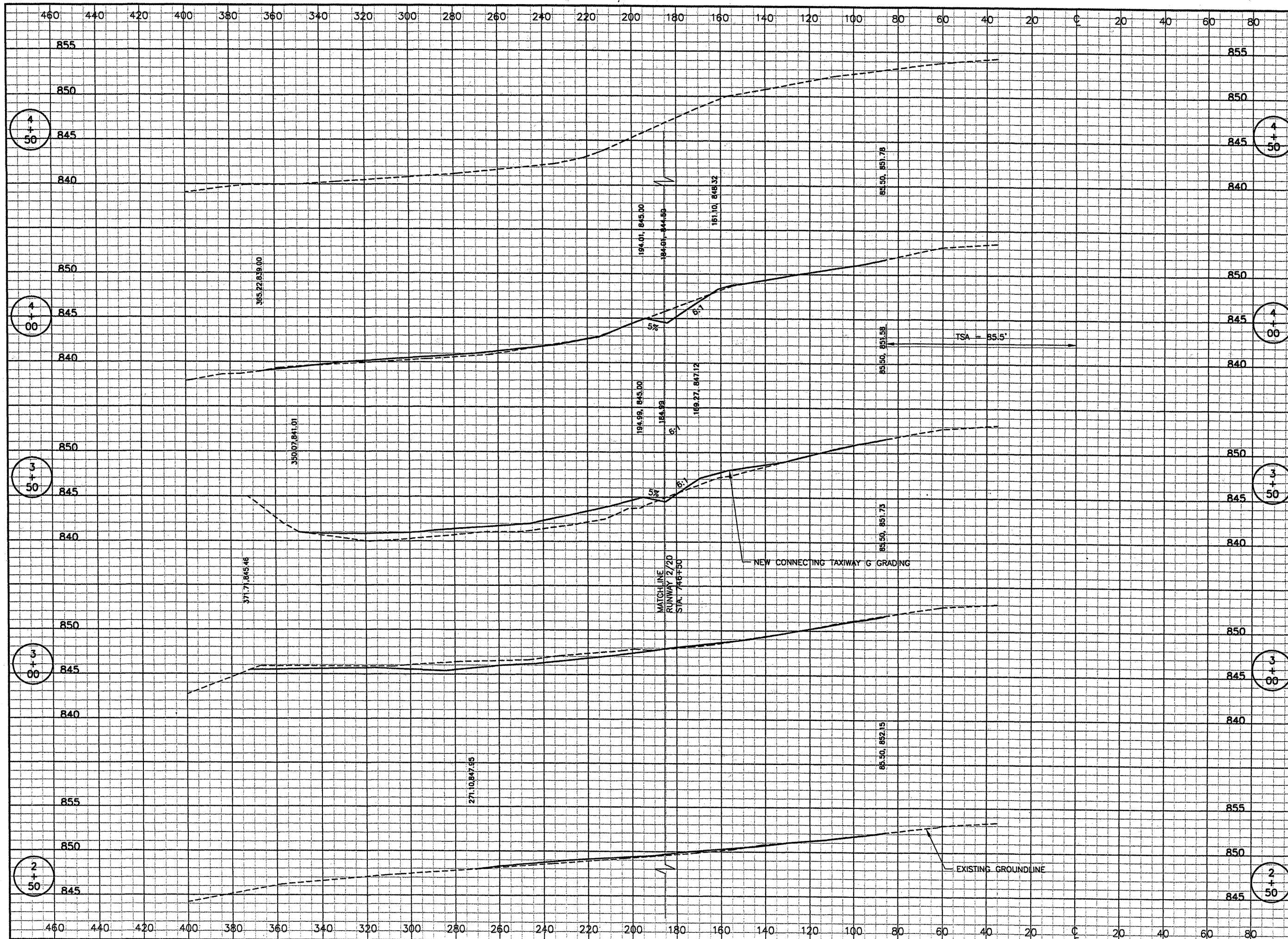
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**BERM**  
**CROSS SECTIONS 4**  
**STA. 102+00 TO STA. 103+50**

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SHEET 44 OF 46 SHEETS	





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 rc001009

REVISIONS		
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 CROSS SECTIONS  
 STA. 2+50 TO STA. 4+50

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JOB No:	0708502

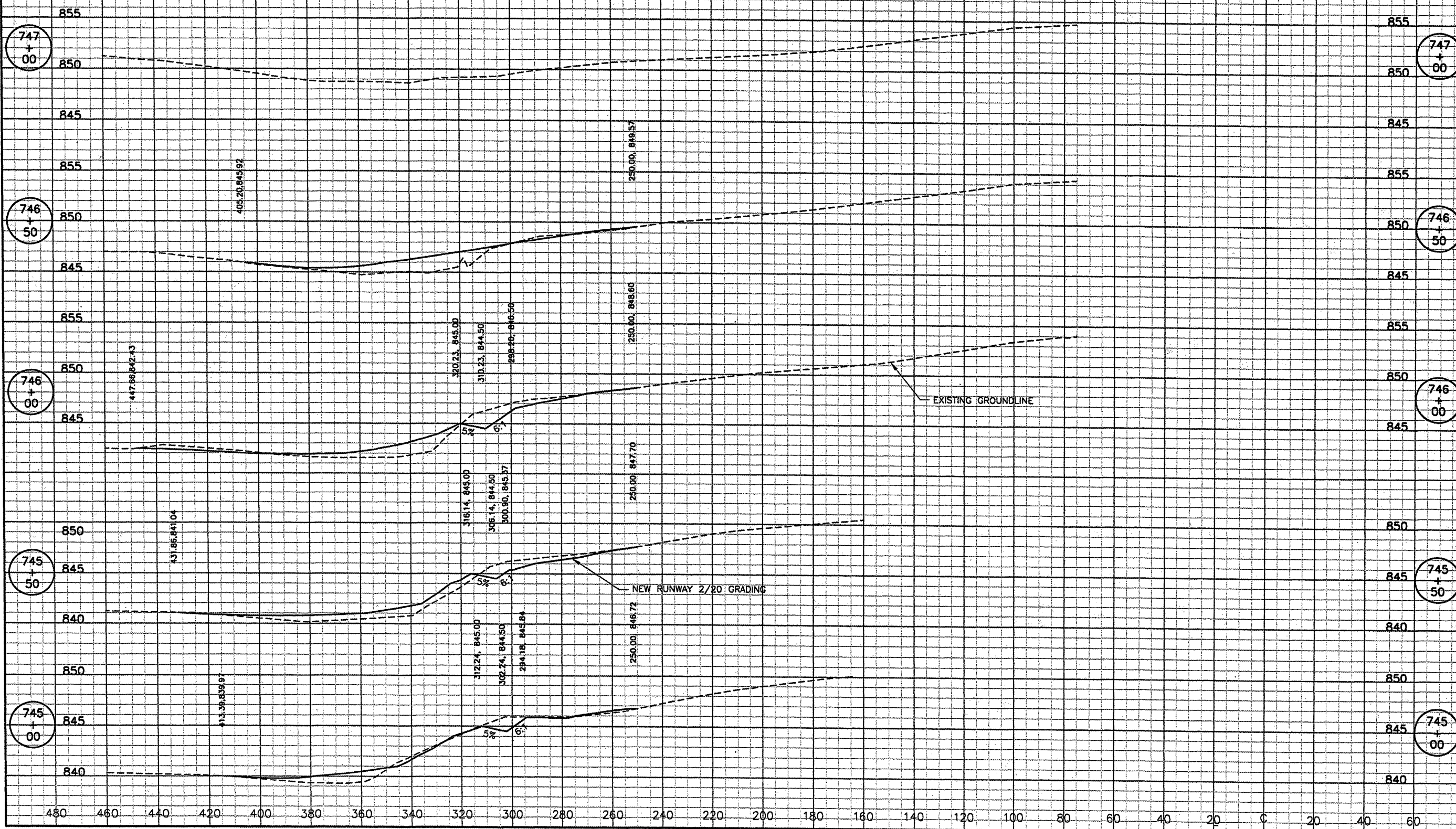
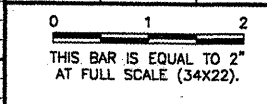
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