ITEM NO. 10A

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DRAINAGE DETAILS

DRAINAGE DETAILS

DRAINAGE DETAILS

CROSS SECTIONS ALIGNMENT 400, STA 404+67.27 THRU STA 405+50

CROSS SECTIONS ALIGNMENT 400, STA 406+00 THRU STA 407+50

CROSS SECTIONS ALIGNMENT 400, STA 408+00 THRU STA 408+50

CROSS SECTIONS ALIGNMENT 400, STA 409+00 THRU STA 409+54.17

CROSS SECTIONS ALIGNMENT 600, STA 594+50 THRU STA 595+50

CROSS SECTIONS ALIGNMENT 600, STA 592+96 THRU STA 594+00

CROSS SECTIONS ALIGNMENT 600, STA 595+00 THRU STA 597+00

CROSS SECTIONS ALIGNMENT 600, STA 597+50 THRU STA 598+50

CROSS SECTIONS ALIGNMENT 600, STA 599+00 THRU STA 600+00

CROSS SECTIONS ALIGNMENT 600, STA 600+50 THRU STA 602+00

CROSS SECTIONS ALIGNMENT 600, STA 602+50 THRU STA 603+20

LANDSCAPING AND STORMWATER POLLUTION PREVENTION PLAN

STORMWATER POLLUTION PREVENTION DETAILS

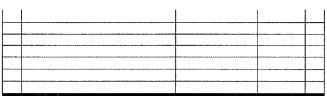
BORING LOCATION MAP

BORING LOGS, B5-1 THRU B5-5

BORING LOGS, B5-6 THRU B5-10

NOTICE TO CONTRACTORS AND BIDDERS

THESE CONSTRUCTION PLANS RELY LIPON THE SPECIAL PROVISIONS AND THE SPECIFICATIONS TO PROVIDE FOR A COMPLETE DESCRIPTION OF THE WORK AND CONSTRUCTION REQUIREMENTS. THE PLANS SHALL, ONLY BE USED IN COMBINATION



6-17-05 LETTING, ITEM 10A

CONSTRUCTION PLANS

SOUTHWEST CORPORATE AREA. GRADING AND DRAINAGE, PHASE 1

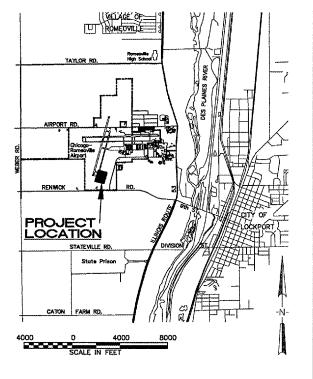
JOLIET REGIONAL PORT DISTRICT CHICAGO-ROMEOVILLE AIRPORT (LOT) ROMEOVILLE, WILL COUNTY, ILLINOIS

AIP PROJECT NO. 3-17-0140-B39 IDA PROJECT NO. LOT-3498

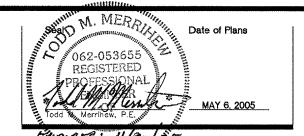
VICINITY MAP

LE036

TOTAL SHEETS = 30



SHEET NO. 1 OF 30





815 Commerce Drive, Suite 200 Oak Brook, Illinois 60523 Telephone: 630.990.3800 Fax: 630,990,3801



Sheets Changed Date

SUMMARY OF QUANTITIES

UNIT

Each

Each

Each

Acre

Each

Each

Day

Acre

Acre

Cubic Yard

Linear Foot

Square Yard

Linear Foot

Linear Foot

Linear Foot

Cubic Yard

AS BID QUANTITY

26,990.0

960.0

4.0

15.0

78.5

1.0

1.0

1,100.0

587.0

13.1

1.0

4.0

5.0

1.7

1.7

6,776.0

ITEM NO.

AR152410

AR156510

AR156512

AR156544

AR701518

AR752418

AR752518

AR800152

AR800929

AR800937

AR800997

AR800998

AR800999

AR901510

AR905510

AR908510

DESCRIPTION

18" RCP, Class IV

Exploratory Trench

Conservation Cover

Field Tile Collar

Site De-watering

Seeding

Mulching

Silt Fence

Bales

Unclassified Excavation

Riprap - Gradation No. 4

Grating for Conc. FES 18"

Paved Ditch, Type A-15

Outlet Control Headwall

Topsoiling (From On Site)

Precast Reinforced Conc. FES 18"

HANSON PROFESSIONAL SERVICES INC.

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JOLIET REGIONAL PORT DISTRICT

1 Hangar Road Romeoville, Illinois 60446 Telephone: 815.838.9497 Fax: 815.838.9524

SOUTHWEST CORPORATE AREA, GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-B39 IDA PROJECT NO. LOT-3498

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			1
No.	Drawing Issue Description	Date	8

Date

MAY 6, 2005 Sheet Title

### SUMMARY OF QUANTITIES

840-04D8	3042
Project Number	
SJM	04/20/05
Loyout By	Date
SJM	04/20/05
Designed By	Dote
RMH/TMM	04/22/05
Reviewed By	Dote
SJM ]	

2

EXISTING RUNWAY 9/27



### PROJECT IS LOCATED IN SW 1/4 OF SECTION 16, LOCKPORT TOWNSHIP, WILL COUNTY

# HANSON

### HANSON PROFESSIONAL SERVICES INC.

815 Commerce Drive, Suite 200 Oak Brook, Illinois 60523 Telephone: 630.990.3800 Fax: 630.990.3801



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SOUTHWEST CORPORATE AREA, GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-B39 IDA PROJECT NO. LOT-3498

# No. Drawing Issue Description Date By

Date

MAY 6, 2005

Sheet Title

# SITE PLAN AND GENERAL NOTES

840-040	08042
Project Numbe	r
SJM	04/20/0
Layout By	Dote
SJM	04/20/0
Designed By	Date
RMH/TM	M 04/22/0
Raviewed By	Date
SJM 1-	

3

Sheet No.

<u>NOTES</u>:

- WORK MUST BE CONTROLLED AND COMPLETED IN A MANNER THAT DOES NOT ADVERSELY IMPACT AIRPORT OPERATIONS.
- MAXIMUM HEIGHT OF CONTRACTOR'S EQUIPMENT IS 20 FEET EXCEPT BY PRIOR APPROVAL OF THE ENGINEER (SEE SPECIAL PROVISIONS).

### **GENERAL NOTES**

### PROJECT DESCRIPTION

SOUTHWEST CORPORATE AREA AND DETENTION BASIN GRADING AND DRAINAGE

INCLUDING, AMONG OTHER INCIDENTAL WORK, THE FOLLOWING ITEMS:

- SITE DE-WATERING AND CONSTRUCTION OF EXPLORATORY TRENCHES
- $\boldsymbol{-}$  Excavation, including topsoil removal and embankment construction, for future hangar area
- GRADING AND CONSTRUCTION OF DETENTION BASIN
- CONSTRUCTION OF PAVED DITCH AND INSTALLATION OF STORM SEWER FOR DETENTION BASIN
- TOPSOILING, SEEDING AND MULCHING.

### COORDINATION WITH OTHER WORK

THIS PROJECT MAY BE UNDER CONSTRUCTION SIMULTANEOUSLY WITH OTHER AIRPORT IMPROVEMENT PROJECTS. COORDINATION WITH THESE OTHER PROJECTS WILL BE REQUIRED.

### PROTECTION OF EXISTING AIRPORT FACILITIES

SITE PLAN

CONTRACTOR'S EQUIPMENT,

AREA AT PROJECT COMPLETION

CONTRACTOR'S ACCESS FROM RENWICK ROAD

RENWICK ROAD

THE CONTRACTOR IS TO BE RESPONSIBLE FOR THE PROTECTION OF EXISTING UNDERGROUND AND OVERHEAD UTILITIES AND LIGHTING EQUIPMENT; DRIVEWAY AND ROAD PAVEMENT AND SHOULDERS; RUNWAY, TAXIWAY AND APRON PAVEMENTS AND SHOULDERS; RUNWAY, TAXIWAY AND AIRPORT LIGHTING EQUIPMENT; AND SEDECD AND TURFED AREAS THAT ARE UTILIZED IN OR AFFECTED BY THE CONTRACTOR'S ACTIVITIES. ITEMS DAMAGED BY THE CONTRACTOR ARE TO BE REPAIRED AT

IN ADDITION WHEN CONDITIONS DICTATE OR AS DETERMINED BY THE AIRPORT DIRECTOR OR THE RESIDENT ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO USE A PICK-UP TYPE SWEEPER IN ALL ACTIVE CONSTRUCTION AIRFIELD PAVEMENT AREAS. THE CONTRACTOR WILL BE REQUIRED TO HAVE A SWEEPER AVAILABLE FOR USE AT ALL TIMES. THE COST OF SWEEPING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

### CONTRACTOR'S ACCESS AND TEMPORARY FACILITIES

CONTRACTOR'S ACCESS TO THE PROJECT WHEN ON AIRPORT PROPERTY IS SHOWN ON THIS SHEET. CONTRACTOR'S ACCESS TO THE AIRPORT ITSELF IS TO BE PROVIDED BY PUBLIC RIGHTS—OF—WAY. THE CONTRACTOR IS TO SECURE ALL NECESSARY PERMITS FOR THE USE OF ANY PUBLIC RIGHTS—OF—WAY AND IS TO MAINTAIN TRAFFIC ON THESE PUBLIC ROADS AT ALL TIMES, WITH THE COSTS OF PERMITTING, CLEANING AND REPAIRING OF PAVEMENT DAMAGED BY CONTRACTOR'S ACTIVITIES INCIDENTAL TO THE CONTRACT. USE OF AND REPAIRS TO ANY PUBLIC FACILITIES ARE TO BE COMPLETED TO THE SATISFACTION OF THE FACILITY'S OWNER.

THE CONTRACTOR IS TO PROVIDE TEMPORARY CONSTRUCTION ROADS WITHIN THE CONSTRUCTION LIMIT LINES AS MAY BE REQUIRED BY HIS ACTIVITIES. HEAVY VEHICLES SHALL NOT CROSS EXISTING PAVEMENT SURFACES EXCEPT AS APPROVED BY THE AIRPORT DIRECTOR AND THE RESIDENT ENGINEER. ANY DAMAGE TO PAVEMENTS THAT MAY OCCUR BY THE CONTRACTOR'S ACTIVITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE AIRPORT DIRECTOR AND THE RESIDENT ENGINEER.

THE CONTRACTOR IS TO PROWDE AN EQUIPMENT, STORAGE AND PARKING AREA AT THE LOCATIONS SHOWN ON THIS SHEET. ACCESS TO THE ENGINEER'S FIELD OFFICE SHALL ALSO BE PROVIDED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE ACCESS ROADS AND THE STORAGE AREA DURING CONSTRUCTION AND TO RESTORE THE AREAS AT PROJECT COMPLETION TO CONDITIONS SUITABLE TO THE AIRPORT DIRECTOR'S DISCRETION, THE TEMPORARY FACILITIES MAY REMAIN, BUT THEY MUST BE LEFT IN CONDITIONS SUITABLE TO THE AIRPORT DIRECTOR. THE COST OF PROVIDING, MAINTAINING AND RESTORING THE TEMPORARY FACILITIES IS INCIDENTAL TO THE CONTRACT.

### RESPONSIBILITY FOR EXISTING UTILITIES

THE LOCATION, SIZE AND/OR TYPE OF MATERIAL OF EXISTING UNDERGROUND OR OVERHEAD UTILITIES AS MAY BE INDICATED ON THESE CONSTRUCTION PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. NEITHER THE OWNER NOR THE PROJECT ENGINEER HAVE INDEPENDENTLY VERIFIED THIS INFORMATION AND RESPONSIBILITY WHATSOEVER IN RESPECT TO THE ACCURACY, SUFFICIENCY OR COMPLETENESS OF THE INFORMATION AND GIVE NO EXPRESSED OR IMPLIED GUARANTEE THAT ANY CONDITIONS INDICATED ARE REPRESENTATIVE OF ACTUAL CONDITIONS TO BE ENCOUNTERED.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AND AGENCIES OF HIS CONSTRUCTION PLANS AND SHALL OBTAIN FROM EACH PARTY DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF ALL UTILITIES AND THE WORKING SCHEDULE ONLY REMOVALS OR ADJUSTMENTS REQUIRED OF THE UTILITY. THE CONTRACTOR SHALL CONTRACT, JULIE, (PHONE 800-892-0123) TO ASSIST IN THE ABOVE.

THE CONTRACTOR SHALL PROTECT ANY FACILITIES TO THE SATISFACTION OF THE UTILITY OR OWNING-AGENCY WITH THE COST OF ANY REQUIRED PROTECTION TO BE INCIDENTAL TO THE CONTRACT. IN THE EVENT A UTILITY LINE OR SERVICE IS UNEXPECTEDLY ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE RESIDENT ENGINEER AND THE UTILITY COMPANY OR ACKNOY OF JURISDICTION. ANY SUCH UTILITIES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO SERVICE AT ONCE.

### EXISTING BENCHMARK

BENCHMARK IS AS FOLLOWS:

U.S.CS. PLUG NUMBER \$140 RESET 1971 ELEVATION 615.340 LOCATED 51 FEET SOUTH OF CENTERLINE LEWIS UNIVERSITY ENTRANCE ROAD AND 34 FEET WEST OF CENTERLINE ILLINOIS ROUTE 53

OTHER TEMPORARY BENCHMARKS ARE LOCATED ON-FIELD BUT THEIR USE MUST BE FIELD-VERIFIED.

# SEQUENCE OF CONSTRUCTION

TO MINIMIZE DISRUPTIONS TO AIRPORT OPERATIONS, CONSTRUCTION OPERATIONS MUST BE CONTROLLED THROUGHOUT THE PROJECT'S DURATION AND WORK MUST BE COMPLETED EXPEDITIOUSLY. THE CONTRACTOR IS TO PREPARE AND FOLLOW A STAGING PLAN THAT COORDINATES HIS WORK WITH THE WORK OF HIS SUBCONTRACTORS AND THE WORK OF OTHER CONTRACTORS ON-FIELD. THIS STAGING PLAN MUST BE SATISFACTORY TO THE PROJECT ENGINEER AND THE AIRPORT DIRECTOR. NO CLOSURE OF ACTIVE AIRFIELD PAVEMENTS WILL BE ALLOWED DURING THIS PROJECT.

CONSTRUCTION AND SAFETY NOTES

### LATHING AND WARNING TAPE

THE PROJECT WILL REQUIRE THE PLACEMENT OF LATHING AND WARNING TAPE TO DELINEATE THE CONSTRUCTION AREA. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROWDE, PLACE AND MAINTAIN LATHING AND WARNING TAPE AS SHOWN ON THE SITE PLAN, AND DETAIL A, THIS SHEET, AND AS DIRECTED BY THE RESIDENT ENGINEER AND THE AIRPORT DIRECTOR. THE CONTRACTOR MILL FURNISH, PLACE, MAINTAIN AND RELOCATE THE LATHING AND WARNING TAPE AS REQUIRED. THE COST OF THESE ITEMS, AND THEIR MAINTENANCE, IS TO BE INCIDENTAL TO THE CONTRACT.

### TEMPORARY BARRICADES ON AIRFIELD

OPEN TRENCHES, EXCAVATIONS AND STOCKPILED MATERIAL AT THE CONSTRUCTION SITE SHALL BE DELINEATED WITH THE USE OF BARRICADES DURING HOURS OF RESTRICTED MSIBILITY AND/OR DARKNESS. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH, PLACE AND MAINTAIN BARRICADES. THE COST OF THESE ITEMS, AND THEIR MAINTENANCE, IS TO BE INCIDENTAL TO THE CONTRACT.

### AIRFIELD OPERATIONAL SAFETY DURING CONSTRUCTION

ALL CONSTRUCTION TRAFFIC AND PERSONNEL SHALL REMAIN WITHIN THE CONSTRUCTION LIMIT LINE SHOWN ON THE SITE PLAN. CONTRACTOR'S PERSONNEL AND EQUIPMENT MUST NOT OPERATE WITHIN 250 FEET OF AN ACTIVE RUNWAY CENTERLINE, WITHIN 600 FEET OF AN ACTIVE RUNWAY END (USING FAA TEMPORARY THRESHOLD LOCATION CRITERIA), WITH 65.5 FEET OF AN ACTIVE TAXWAY CENTERLINE, OR WITHIN 40 FEET OF AN ACTIVE APRON EDGE.

WHEN NOT IN USE AND DURING NONWORKING HOURS, CONTRACTOR'S EQUIPMENT SHALL BE PARKED WITHIN THE CONTRACTOR'S EQUIPMENT, STORAGE AND PARKING AREA. AT NO TIME SHALL THE CONTRACTOR OPERATE OR PARK EQUIPMENT SO AS TO OBSTRUCT AN ACTIVE RUNWAY APPROACH SURFACE.

PAVEMENTS WHICH BECOME DIRTY DUE TO THE CONTRACTOR'S ACTIVITIES SHALL BE CLEANED WITH A PICKUP TYPE SWEEPER. ANY REQUIRED CLEANING SHALL BE TO THE SATISFACTION OF THE RESIDENT ENGINEER AND AIRPORT DIRECTOR AND IS INCIDENTAL TO THE CONTRACT.

### CONTRACTOR'S USE OF SITE

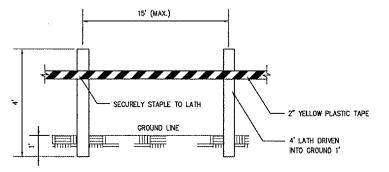
THE CONTRACTOR SHALL NOT OPERATE WITHIN, ENCROACH UPON OR OBSTRUCT AIRPORT OPERATIONAL AREAS, INCLUDING ACTIVE RUNWAY, TAXIWAYS AND APRON SAFETY AREAS, OBJECT AND OBSTACLE FREE ZONES, RUNWAY PROTECTION ZONES AND AIRPORT IMAGINARY SURFACES AS DEFINED IN FEDERAL AWAITON REGULATIONS (FAR) PART 77, "OBJECTS AFFECTING NAMGABLE AIRSPACE".

### UTILITY OUTAGES AND SHUTDOW

THE CONTRACTOR SHALL PROVIDE 72 HOURS PRIOR NOTICE OF ANY OUTAGES OR SHUTDOWNS TO THE OWNER AND THE AGENCY OWNING THE AFFECTED UTILITY. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY CONNECTIONS OR OTHER MEASURES AS MAY BE REQUIRED TO MAINTAIN SERVICE AS MAY BE REQUIRED BY THE OWNING AGENCY AT NO COST TO THE OWNER.

### AVAILABLE SOIL DATA

A BORING LOCATION PLAN AND SOIL BORING LOGS ARE INCLUDED WITH THE PLANS. ADDITIONAL DETAILED SOIL TEST MATERIAL IS ALSO AVAILABLE UPON REQUEST. BORING INFORMATION AND INFORMATION ON SOIL TESTS IS MADE AVAILABLE SOLELY FOR THE CONVENIENCE OF THE BIDDER AND/OR CONTRACTOR. NEITHER THE OWNER NOR THE PROJECT ENGINEER ASSUMES ANY RESPONSIBILITY WHATSOEVER IN RESPECT TO THE ACCURACY OR SUFFICIENCY OF THE AVAILABLE INFORMATION AND THERE IS NO EXPRESSED OR IMPUED GUARANTEE THAT THE CONDITIONS DESCRIBED IN THE SOIL TEST DATA ARE REPRESENTATIVE OF ALL CONDITIONS THAT MAY BE ENCOUNTERED.



MATERIALS ARE TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION. COST OF MATERIALS, INSTALLATION, RELOCATION AND MAINTENANCE OF LATHING AND WARNING TAPE IS TO BE INCIDENTAL TO THE CONTRACT.

# DETAIL A LATHING AND WARNING TAPE



HANSON PROFESSIONAL SERVICES INC.

815 Commerce Drive, Suite 200 Oak Brook, Illinois 60523 Telephone: 630.990.3800 Fax: 630.990.3801

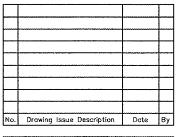


### JOLIET REGIONAL PORT DISTRICT

1 Hangar Road Romeoville, Illinois 60446 Telephone: 815.838.9497 Fax: 815.838.9524

SOUTHWEST CORPORATE AREA, GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-B39 IDA PROJECT NO. LOT-3498



Date

MAY 6, 2005

Sheet No.

Sheet T

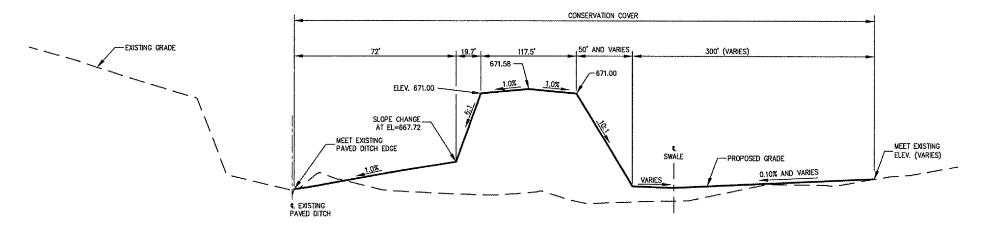
# CONSTRUCTION AND SAFETY NOTES AND DETAILS

840-04	D8042
Project Numb	<b>y</b>
SJM	04/20/0
Layout By	Date
SJM	04/20/0
Designed By	Date
RMH/TM	M 04/22/0
Reviewed By	Date
S.IM L	1

DETAILS SHOWN ARE NOT TO SCALE

### TYPICAL SECTION - DETENTION BASIN

(SECTION SHOWN LOOKING EAST)



### TYPICAL SECTION - DETENTION BASIN

(SECTION SHOWN LOOKING NORTH)

### **NOTES**

- TUTURE PAVEMENT AREAS:
  ONLY SUITABLE FILL MATERIAL MAY BE PLACED WITHIN 5' OF FUTURE PAVEMENT AREAS, SEE PLANS FOR LOCATION OF THESE AREAS.
- BALANCING OF THE EARTHWORK IS BASED UPON THE FOLLOWING USE OF TOPSOIL:

  CUT AREAS 4" OF TOPSOIL TO BE PLACED.

  FILL AREAS DETENTION BASIN BERMS SHALL BE CONSTRUCTED OF TOPSOIL

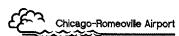
  FROM CUT AREAS AND FROM TOPSOIL FROM TAXIWAY E AND

  GA APRON CONSTRUCTION.
- 3 TOPSOIL REMOVAL (INCLUDED IN ITEM AR152410)
- PROPOSED PREPARED SUBGRADE:
  CUT AREAS REMOVE TOPSOIL TO FINISHED SUBGRADE ELEV., ADDITIONAL
  UNDERCUT BELOW FINISHED SUBGRADE IN AREAS SHOWN ON
  PLANS AND/OR AS DETERMINED BY ROLL TEST (SEE UNDERCUT
  - DETAIL)*
    FILL AREAS REMOVE TOPSOIL, ADDITIONAL UNDERCUT IN AREAS SHOWN ON PLANS AND/OR AS DETERMINED BY ROLL TEST (SEE UNDERCUT DETAIL)*
- FUTURE HANGAR SITES (QUANTITY INCLUDED IN 1TEM AR152410). NO TOPSOIL OR UNSUITABLE TO BE PLACED UNDER THE PAVEMENT SECTION WITHIN 5' OF PAVEMENT EDGES, SEE UNDERCUT PLAN.



### HANSON PROFESSIONAL SERVICES INC.

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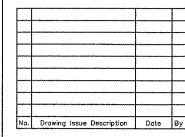


### JOLIET REGIONAL PORT DISTRICT

1 Hangar Road Romeoville, Illinois 60446 Telephone: 815.838.9497 Fax: 815.838.9524

SOUTHWEST CORPORATE AREA, GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-B39 IDA PROJECT NO. LOT-3498



Date

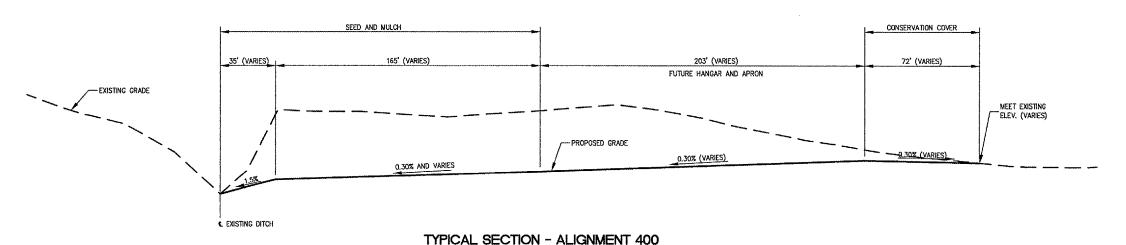
MAY 6, 2005

Sheet Title

### TYPICAL SECTIONS -**DETENTION BASIN**

840-04D	8042
Project Number	
SJM	04/20/05
Layout By	Date
SJM	04/20/05
Designed By	Date
RMH/TMM	04/22/05
Reviewed By	Date
SJM	

* ALL TOPSOIL TO BE REMOVED WITHIN 5' OF PROPOSED PAVEMENT AREAS AND UNDER



(SECTION SHOWN LOOKING NORTH, 150' LEFT (NORTH) OF PROFILE)

### NOTES

- 1 FUTURE PAVEMENT AREAS: ONLY SUITABLE FILL MATERIAL MAY BE PLACED WITHIN 5' OF FUTURE PAVEMENT AREAS, SEE PLANS FOR LOCATION OF THESE AREAS.
- BALANCING OF THE EARTHWORK IS BASED UPON THE FOLLOWING USE OF TOPSOIL: CUT AREAS — 4" OF TOPSOIL TO BE PLACED.
  FILL AREAS — DETENTION BASIN BERNS SHALL BE CONSTRUCTED OF TOPSOIL
  FROM CUT AREAS AND FROM TOPSOIL FROM TAXIWAY E AND
  GA APRON CONSTRUCTION.
- 3 TOPSOIL REMOVAL (INCLUDED IN ITEM AR152410)
- PROPOSED PREPARED SUBGRADE: CUT AREAS— REMOVE TOPSOIL TO FINISHED SUBGRADE ELEV, ADDITIONAL UNDERCUT BELOW FINISHED SUBGRADE IN AREAS SHOWN ON PLANS AND/OR AS DETERMINED BY ROLL TEST (SEE UNDERCUT
- DETAIL)*

  FILL AREAS— REMOVE TOPSOIL, ADDITIONAL UNDERCUT IN AREAS SHOWN ON PLANS AND/OR AS DETERMINED BY ROLL TEST (SEE UNDERCUT DETAIL)*

* ALL TOPSOIL TO BE REMOVED WITHIN 5' OF PROPOSED PAVEMENT AREAS AND UNDER FUTURE HANGAR SITES (QUANTITY INCLUDED IN ITEM AR152410). NO TOPSOIL OR UNSUITABLE TO BE PLACED UNDER THE PAVEMENT SECTION WITHIN 5' OF PAVEMENT EDGES, SEE UNDERCUT PLAN.



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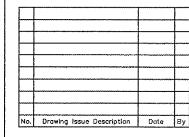


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SOUTHWEST CORPORATE AREA, GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-B39 IDA PROJECT NO. LOT-3498

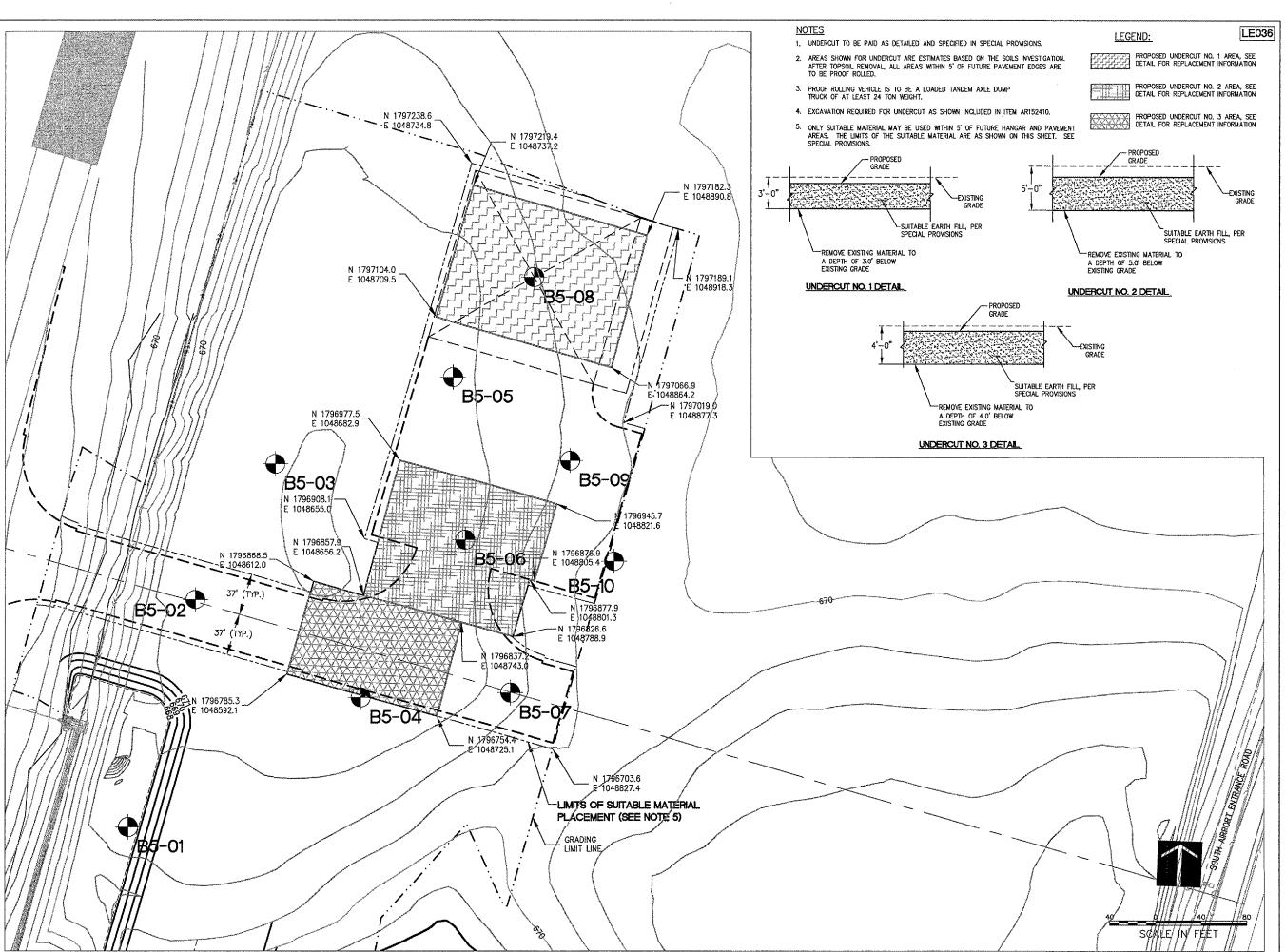


Date

MAY 6, 2005

### TYPICAL SECTIONS -**ALIGNMENT 400**

840-04D8042
Project Number
SJM 04/20/05
Layout By Date
SJM 04/20/05
Dasigned By Date
RMH/TMM 04/22/05
Reviewed By Date
SJM 11





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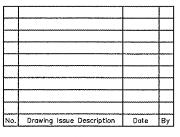


### JOLIET REGIONAL PORT DISTRICT

i Hangar Road Romeoville, Illinois 60446 Telephone: 815.838.9497 Fax: 815.838.9524

SOUTHWEST CORPORATE AREA, GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-839 IDA PROJECT NO. LOT-3498

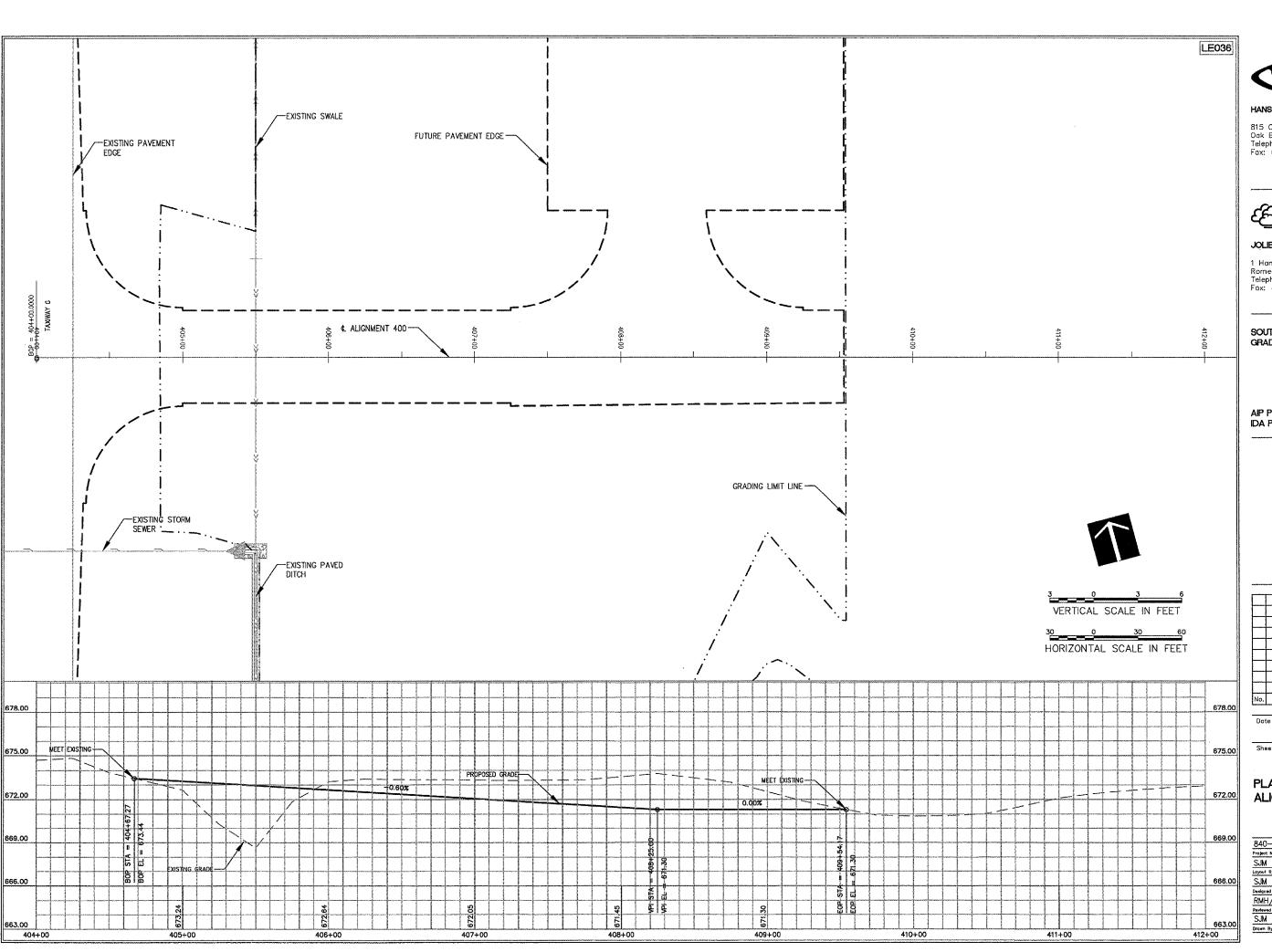


MAY 6, 2005

Sheet Title

### UNDERCUT PLAN

840-04D8042			
Project Number			
SJM 04/15/05			
Layout By Date			
SJM 04/15/05			
Designed By Oate			
RMH/TMM 04/22/05			
Reviewed By Date			
SJM			





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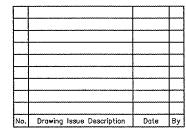


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SOUTHWEST CORPORATE AREA, GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-B39 IDA PROJECT NO. LOT-3498



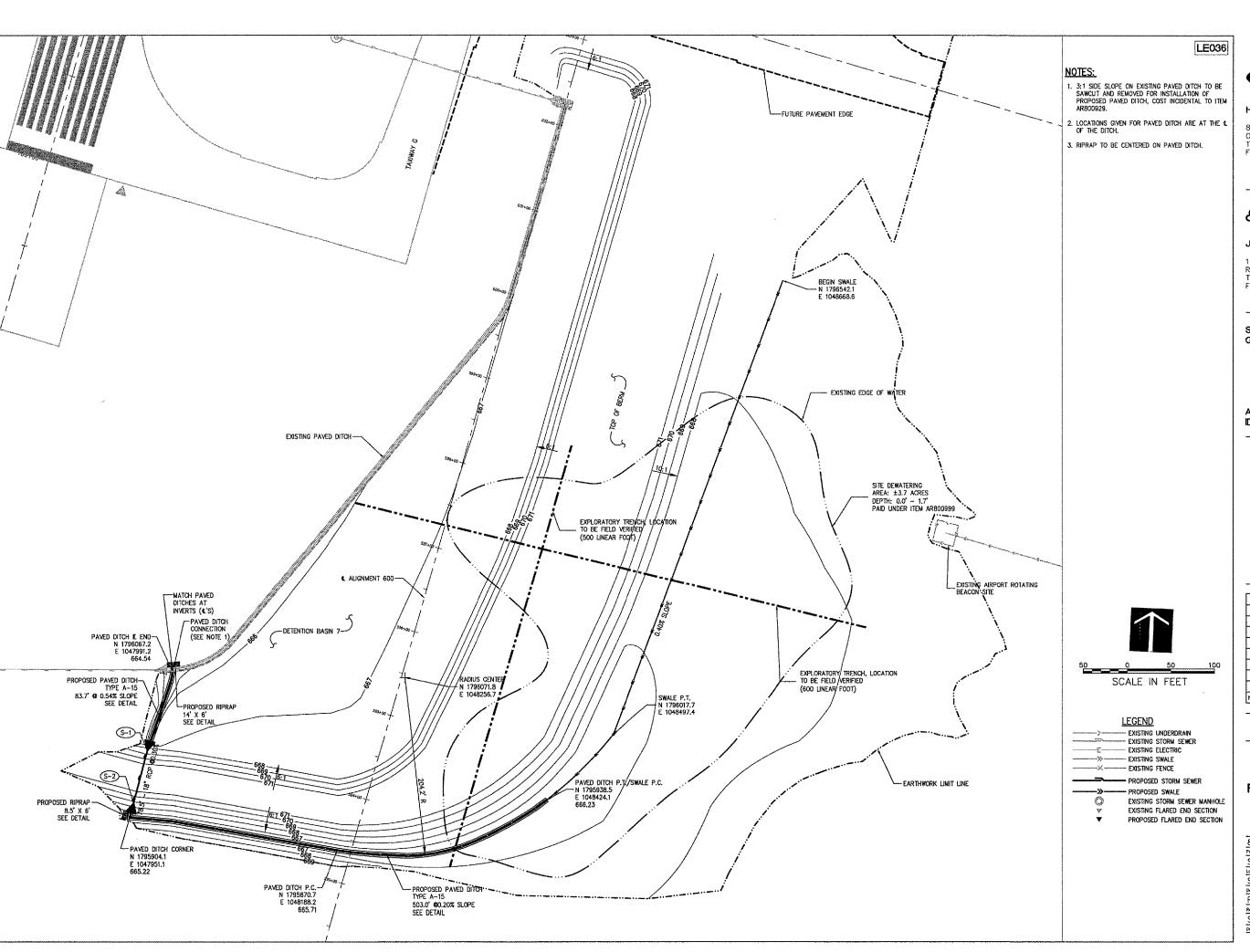
MAY 6, 2005

Sheet Title

### PLAN AND PROFILE -ALIGNMENT 400

840~04D	8042
Project Number	
SJM	04/20/05
Layout By	Date
SJM	04/20/05
Designed By	Date
RMH/TMM	04/22/05
Reviewed By	Date

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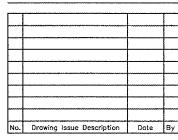


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1 Hangar Road Romeoville, Illinois 60446 Telephone: 815.838,9497 Fax: 815.838,9524

SOUTHWEST CORPORATE AREA, GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-B39 IDA PROJECT NO. LOT-3498



Date

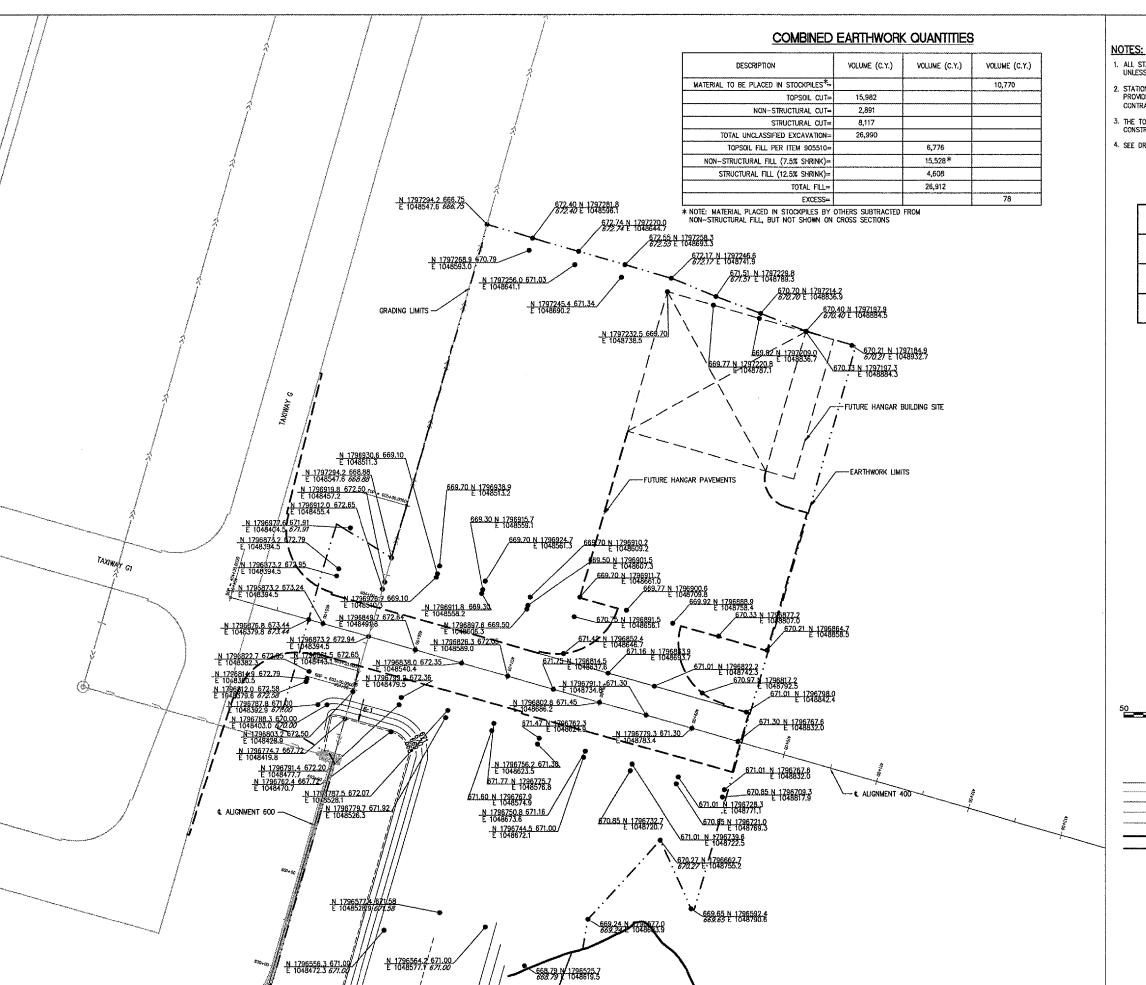
MAY 6, 2005

Sheet Title

PLAN - ALIGNMENT 600

840-0	4D8042
Project Num	ber
SJM	04/20/05
Layout By	Date
SJM	04/20/05
Designed By	Date
RMH/T	MM 04/22/05
Reviewed By	Date
SJM 1	

9





- ALL STAKING PLAN ELEVATIONS ARE AT CROSS SECTION STATIONS UNLESS NOTED OTHERWISE.
- STATIONING BASED ON ALIGNMENTS AS SHOWN. ENGINEER WILL PROMDE BENCHWARKS WITH STATION, OFFSET, AND ELEVATION FOR CONTRACTOR'S USE.
- 3. THE TOPSOIL STOCKPILE BY OTHER WILL BE USED FOR BERM CONSTRUCTION AND TOPSOIL PLACEMENT.
- 4. SEE DRAINAGE DETAILS FOR STORM SEWER SCHEDULE.

### ALIGNMENT DATA

DESCRIPTION	BEGINNING OF ALIGNMENT 400	END OF ALIGNMENT 400
STATION	404+00	415+74.8
NORTHING	1,796,896.68	1,796,620.92
EASTING	1,048,297.33	1,049,439.32



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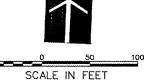


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SOUTHWEST CORPORATE AREA, GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-B39 IDA PROJECT NO. LOT-3498



### LEGEND

	EXISTING UNDERDRAIN
	EXISTING STORM SEWER
The second secon	EXISTING ELECTRIC
	EXISTING SWALE
XX	EXISTING FENCE
	PROPOSED STORM SEWE
	PROPOSED SWALE

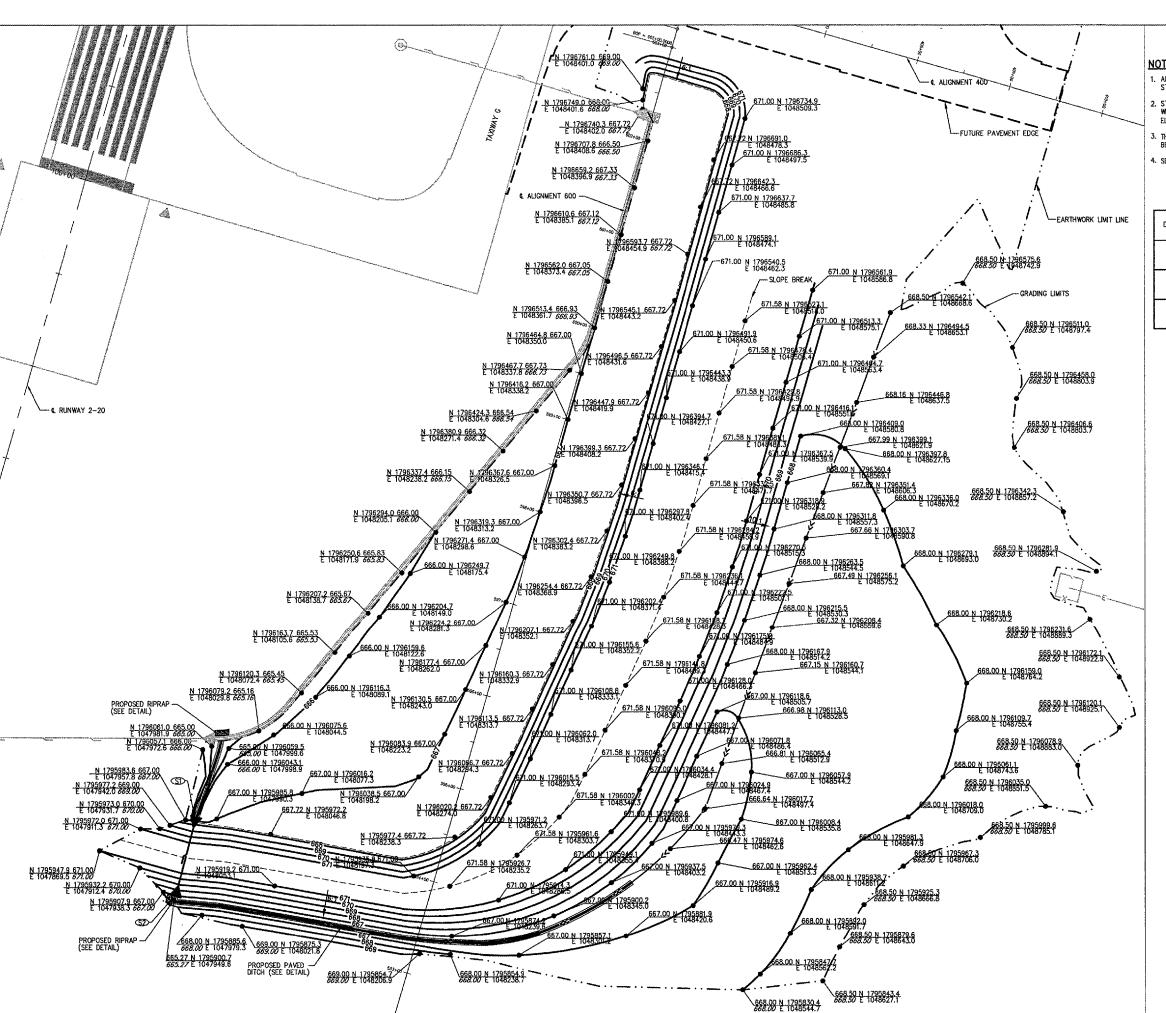
EXISTING STORM SEWER MANHOLE
EXISTING FLARED END SECTION
PROPOSED FLARED END SECTION

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No.	Drawing Issue Description	Date	Ву
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Date	2	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
	MAY 6, 2005		
She	et Title		

### STAKING PLAN -ALIGNMENT 400

840-040	08042
Project Numbe	r
SJM	04/20/05
Layout By	Date
SJM	04/20/05
Dasigned By	Date
RMH/TMI	M 04/22/05
Reviewed By	Date
SJM  -	

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### NOTES:

- 1. ALL STAKING PLAN ELEVATIONS ARE AT CROSS SECTION STATIONS UNLESS NOTED OTHERWISE
- 2. STATIONING BASED ON ALIGNMENTS AS SHOWN. ENGINEER WILL PROVIDE BENCHMARKS WITH STATION, OFFSET, AND ELEVATION FOR CONTRACTOR'S USE.
- THE TOPSOIL STOCKPILE BY OTHERS WILL BE USED FOR BERM CONSTRUCTION AND TOPSOIL PLACEMENT.
- 4. SEE DRAINAGE DETAILS FOR STORM SEWER SCHEDULE.

### **ALIGNMENT DATA**

DESCRIPTION	BEGINNING OF ALIGNMENT 600	END OF ALIGNMENT 600		
STATION	591+00	603+20		
NORTHING	1,795,639.09	1,796,825.06		
EASTING	1,048,148.03	1,048,434.17		

SCALE IN FEET

**LEGEND** 

-X--- EXISTING FENCE

0

--- EXISTING UNDERDRAIN

EXISTING ELECTRIC

PROPOSED SWALE

-- EXISTING SWALE

EXISTING STORM SEWER

PROPOSED STORM SEWER

EXISTING STORM SEWER MANHOLE

EXISTING FLARED END SECTION

PROPOSED FLARED END SECTION



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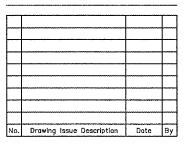


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SOUTHWEST CORPORATE AREA, GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-B39 IDA PROJECT NO. LOT-3498

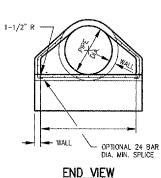


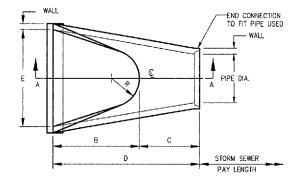
MAY 6, 2005 Sheet Title

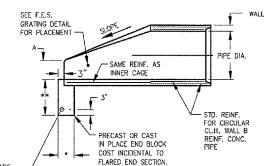
STAKING PLAN -**ALIGNMENT 600** 

840-048	08042
Project Numbe	r
SJM	04/20/05
Layout By	Dote
SJM	04/20/05
Designed By	Dote
RMH/TM	M 04/22/05
Reviewed By	Date `
S.M. La	

PIPE DIA.	WALL	A	В	С	D	E	R	SLOPE
12"	2"	4"	2"0"	4'-0 7/8"	5'0 7/8"	2"-0"	9"	3:1
15"	2 1/4"	6*	2"3"	3'-10"	6'-1"	2'6*	11"	3:1
18"	2 1/2"	9,	2'-3"	3'-10"	6'-1"	3'0*	12"	3:1
21"	2 3/4"	9"	2'-11"	3'-2"	6'-1"	3'-6"	13"	3:1
24*	3"	9 1/2"	3'7 1/2"	2'-6"	6'-1 1/2"	4'-0"	14*	3:1
27*	3 1/4"	10 1/2"	4'0"	2'-1 1/2"	6'-1 1/2"	4'6"	14 1/2"	3:1
30"	3 1/2"	1'~0"	4'6 1/2"	1'7 3/4"	6'-1 3/4"	5'-0"	15"	3:1
33"	3 3/4"	1'~1 1/2"	4'-10 1/2"	3'-3 1/4"	8'-1 3/4"	5'6"	17 1/2*	3:1
36"	4"	1'-3"	5'-3"	2'-10 3/4"	8'-1 3/4"	6'-0"	20*	3:1
42°	4 1/2"	1'-9"	5'-3"	2'-11"	8'-2"	6'-6"	22*	3:1
48"	5"	2'-0"	6'0"	2'-2"	8'2"	7'0"	22"	3:1
54"	5 1/2"	2'-3"	5'-5"	2'11"	8'-4"	7'-6"	24"	2.4:1







### NOTES

- 1. GRATING SHALL BE PAID FOR UNDER ITEM AR752518.
- 2. THE END BLOCK SHALL BE PLACED PRIOR TO THE INSTALLATION OF THE FLARED END SECTION. THE END BLOCK SHALL BE BACKFILLED IN ACCORDANCE WITH ARTICLE 502.10 OF IDOT SPECIFICATIONS, WITH COST INCIDENTAL TO FLARED END SECTION.
- 3. 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

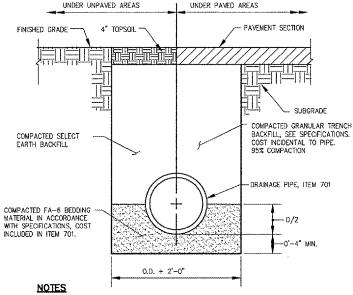
# SECTION A-A (IDOT STANDARD 542301)

2 - NO. 4 BARS

* 8" - 36" DIA, PIPE OR LESS 10" - GREATER THAN 36" DIA, PIPE

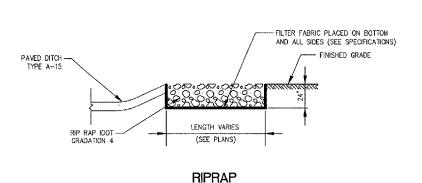
** 18" - 36" DIA. PIPE OR LESS

24" - GREATER THAN 36" DIA, PIPE



- UNSUITABLE MATERIAL ENCOUNTERED DURING PLACEMENT OF BEDDING SHALL BE REMOVED AND REPLACED.
- WITHIN 5 FEET OF PAVED AREA, GRANULAR BACKFILL IS TO BE USED INSTEAD OF EARTH BACKFILL.

### PIPE TRENCH



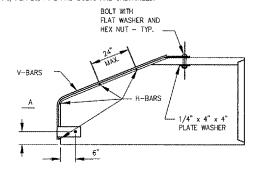
### NOTE

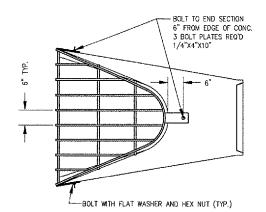
- 1. COST OF FILTER FABRIC IS INCIDENTAL TO RIPRAP.
- 2. WIDTH (W) OF RIPRAP VARIES, SEE PLAN.

### DIA V-BAR H--BAR BOLT No. OF INCHES SIZE SIZE DIM. DIA. H-BARS REQ'D. INCHES INCHES 12 1/29 5/8# 1/2 15 1/20 5/8# 3 1/2 4 1/2 18 1/20 5/8# 4 1/2 4 1/2 21 1/20 5/8ø 1/2 24 5/8# 3/4# 1/2 4 5 27 5/86 3/46 5 1/2 1/2 30 5/8# 3/4# 1/2 5 1/2 36 3/4# 16 3/4 8 42 3/4# 10 4 3/4 8 48 3/4# 1ø 5 3/4 3/4# 1~1/2PIPE 5 3/4 8 24 X 38 ELLIPTICAL 3/40 3/4 5 8

### <u>NOTES</u>

- 1. BARS AND PLATES ARE HOT ROLLED STEEL.
- 2. BARS, PLATES, PIPE AND BOLTS ARE GALVANIZED.





### GRATING FOR FLARED END SECTION

### STORM SEWER SCHEDULE

Structure	Station	Cffset	Туре	Dismeter	Pim EL	hvert EL	Pay Langth	Size	Stope 7
SI	593+96	256' LT	AUTOMATIC DRAINAGE GATE	18*	N/A	665.00			
S2	593+10	253° RT	FES	18*	N/A	665.27	78.5'	18"	0.30



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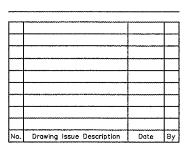


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SOUTHWEST CORPORATE AREA, GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-B39 IDA PROJECT NO. LOT-3498



Sheet Title

MAY 6, 2005

DRAINAGE DETAILS

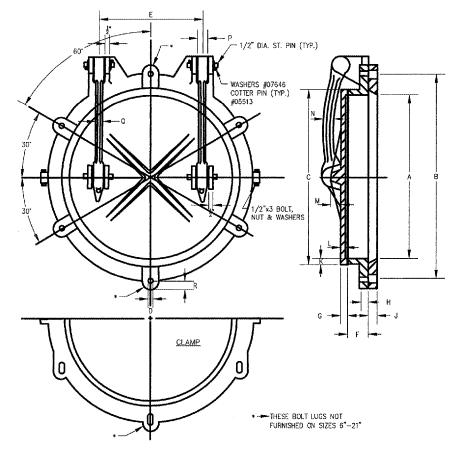
840-04D8042 Project Number SJM 04/07/05 Loyout By Date Loyout By 04/07/05 Designed By Date RMH/TMM 04/22/05

Reviewed By Date

SJM |---|

DETAILS SHOWN ARE NOT TO SCALE

	8/D	A/F			E										
A	В	С	D	£	F	G	н	J	к	L	М	N	Р	Q	R
18"				16 3/4"					5/8"	1/2"	1 1/2"	1 7/16"	1 1/4"	1 1/4"	



### **NOTES**

### 1. MATERIAL:

FRAME, LID, CLAMPS - GRAY IRON, CLASS 35B ASTM A48 ARMS - DUCTILE IRON, GRADE 65-45-12. ASTM A536

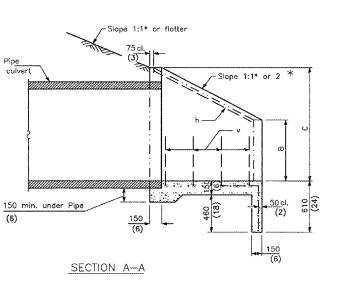
### 2. FURNISH WITH:

NEOPRENE SEAT MOUNTING AND BRONZE BUSHED HINGES WITH GREASE FITTINGS.

3. AUTOMATIC DRAINAGE GATE TO BE ITEM R-5050-SF18 AS PRODUCED BY NEENAH, OR APPROVED EQUAL.

> **AUTOMATIC DRAINAGE GATE** (TYPE SF)

If embankment slope above headwall is flatter than 1:2, provide wings for 1:2 slope.



### TABLE OF DIMENSIONS

1	NOMINAL INSIDE	SLOPE			Dime	nsions			Concrete 2 End Secs.		cement 8		
DESIGN NO.	DIAM. of PIPE	of FILL	A	В	С	D	ε	F	m ³ (cu. yds.)	h Mark	Bars Length	v-Bars No.	Total Wt. 2 End Secs. kg (lbs.)
D600-2 (D24-2)	450 (18)*	1:2	865 (34)	410 (16)	840 (33)	890 (35)	2.72 m (8'-10 1/2'')	1.29 m (4'-2 1/2'')	1.5 (2.0)	h ₅	3.24 m (11'-0'')	28	50 70

Mork

h₂

560 (22)

640 (25)

840 (33)

750

(29 1/2)

(29 1/2)

(38 1/2)

(22) (38 1/2)

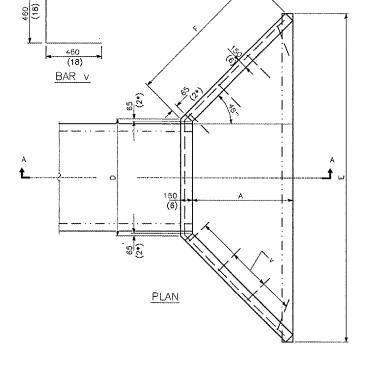
(33) (4'-1 1/2") 990 1.18 m (39) (3'-10 1/2"

(39) (4'-10 1/2"

1.19 m 1.42 m (3'-11") (4'-8") 1.19 m 1.77 m (3'-11'') (5'-9 1/2'') 1. END SECTION TO BE MODIFIED TO BE COMPATIBLE WITH AN 18" DIAMETER PIPE AND AUTOMATIC DRAINAGE GATE, SEE DETAIL.

(IDOT STANDARD 542101 - MODIFIED FOR PIPE SIZE)

# BARS - h to hg Bend in field one required in each headwal



bar-h or h1 etc. — -MODIFIED, SEE NOTE 1 v-bors at 300 cts. v-bars at 300 cts. v-bars at 460 cts. (18)

END VIEW

	NOMINAL INSIDE	SLOPE		***************************************	η:	nsions			Concrete	Reinfo	rcement 8c	rs-No. 1	5 (No. 4)
DESIGN NO.	DIAM.	of			Dime	risions			2 End Secs.	h	Bars	v-Bars	Total Wt. 2 End Secs
NO.	of PIPE	FILL	Α	В	С	D	Ε	F	(cu. yds.)	Mark	Length	No.	kg (lbs.)
D600-2 (D24-2)	450 (18)*	1:2	865 (34)	410 (16)	840 (33)	890 (35)	2.72 m (8'-10 1/2'')	1.29 m (4'-2 1/2'')	1.5 (2.0)	h ₅	3.24 m	28	50 70
		L			I Y		19					***************************************	<b></b>

### REINFORCED CONCRETE END SECTION

DETAILS SHOWN ARE NOT TO SCALE



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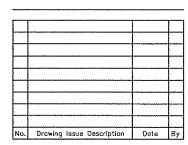


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SOUTHWEST CORPORATE AREA, GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-B39 IDA PROJECT NO. LOT-3498

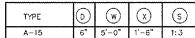


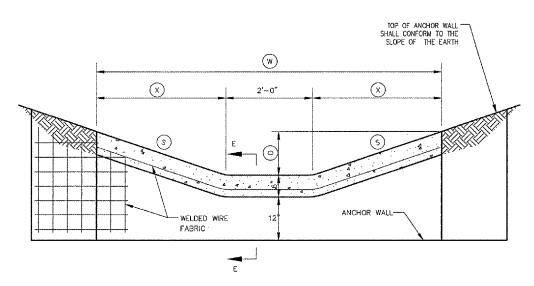
MAY 6, 2005 Sheet Title

### DRAINAGE DETAILS

840-040	08042
Project Numbe	,
SJM	04/07/05
Layout By	Date
SJM	04/07/05
Designed By	Date
RMH/TM	M 04/22/05

Reviowed By Date
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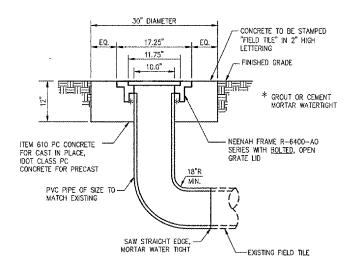


PAVED DITCH CROSS SECTION

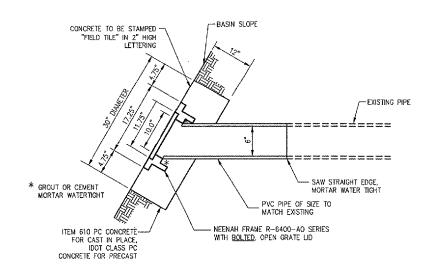
### NOTES

- 1. ITEM 610 PC CONCRETE SHALL BE USED THROUGHOUT.
- 2. WELDED WIRE FABRIC SHALL BE 6"X6" MESH, #4 GAGE, 58 LBS. PER 100 SQ. FT., CONFORMING TO THE REQUIREMENTS OF AASHTO M-55.
- 3. 1/2 INCH PREMOULDED JOINT FILLER SHALL BE PLACED AT THE JUNCTION OF PAVED DITCH WITH ANY OTHER STRUCTURE.
- 4. ANCHOR WALLS SHALL BE SPACED AT NOT MORE THAN 50 FOOT INTERVALS.
- 5. ANCHOR WALLS SHALL BE CONSTRUCTED MONOLITHICALLY WITH THE PAVED DITCH.
- 6. AT THE OPTION OF THE CONTRACTOR, #3 REINFORCING BARS PLACED AT 12 INCH CENTERS LONGITUDINALLY IN PAVED DITCH AND VERTICALLY IN ANCHOR AND CUT-OFF WALLS MAY BE USED IN LIEU OF THE WELDED WIRE FABRIC.
- 7. THE COST OF FURNISHING AND PLACING THE JOINT FILLER AND WELDED WIRE FABRIC OR THE #3 REINFORCING BARS WILL BE CONSIDERED INCIDENTAL TO THE COST OF THE PAVED DITCH.
- 8. DUMMY GROOVED JOINTS ARE TO BE PLACED AT A SPACING NO TO EXCEED 15' APART, NO SECTION IS TO BE SHORTER THAT 4'.
- 9. EXPANSION JOINTS WITH 1/2" PREMOLDED JOINT FILLER TO BE PLACED AT A

PAVED DITCH AND ANCHOR WALL IDOT STANDARD 2258-5



FIELD TILE BELOW BASIN GRADE



FIELD TILE ABOVE BASIN GRADE

### FIELD TILE COLLAR



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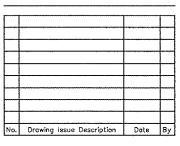


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SOUTHWEST CORPORATE AREA, GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-B39 IDA PROJECT NO. LOT-3498

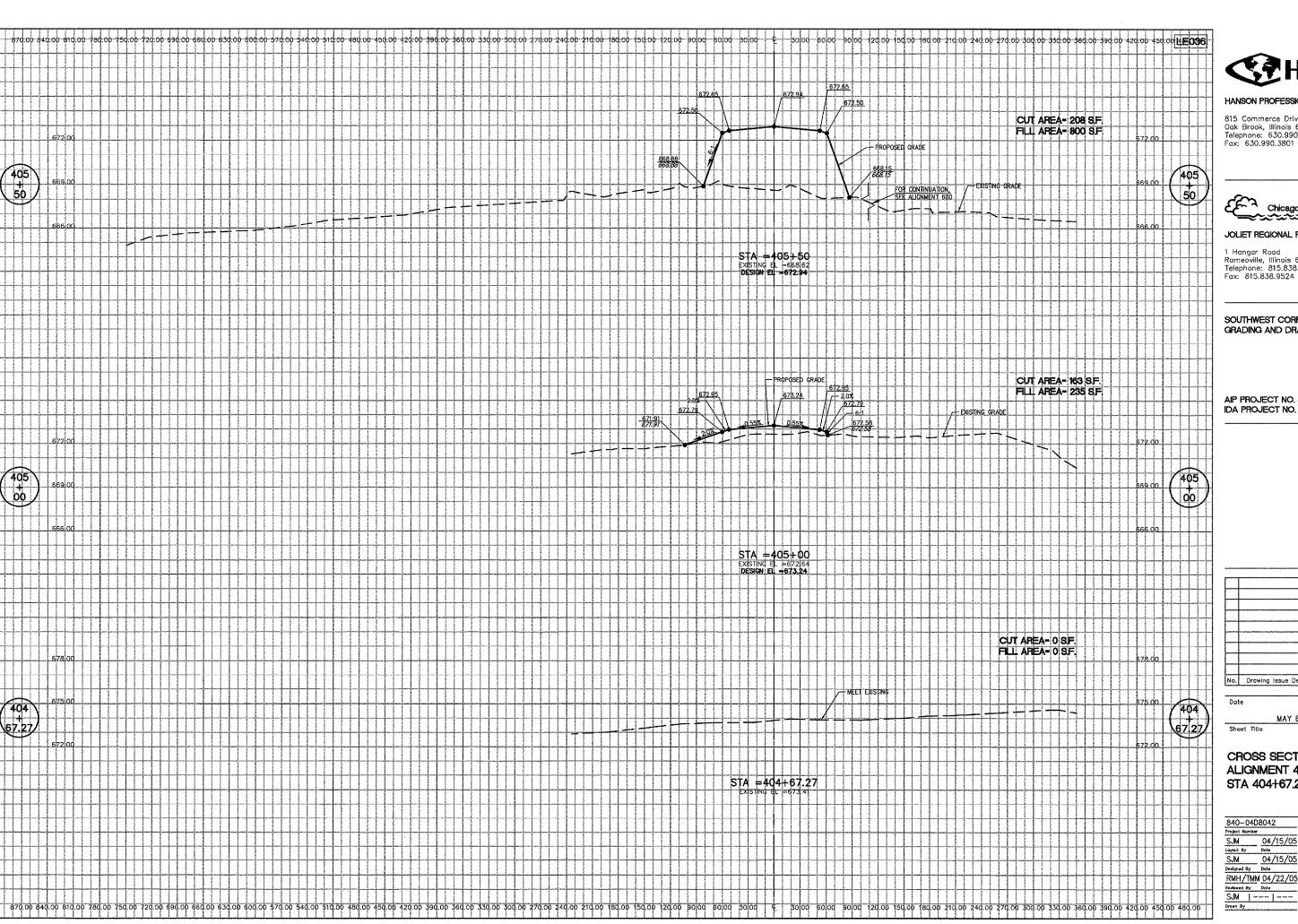


MAY 6, 2005 Sheet Title

### DRAINAGE DETAILS

840-04D8	3042
Project Number	
SJM	04/07/05
Layout By	Date
SJM	04/07/05
Designed By	Dote
RMH/TMM	04/22/05
Reviewed By	Dote

SJM |----





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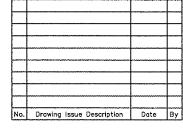


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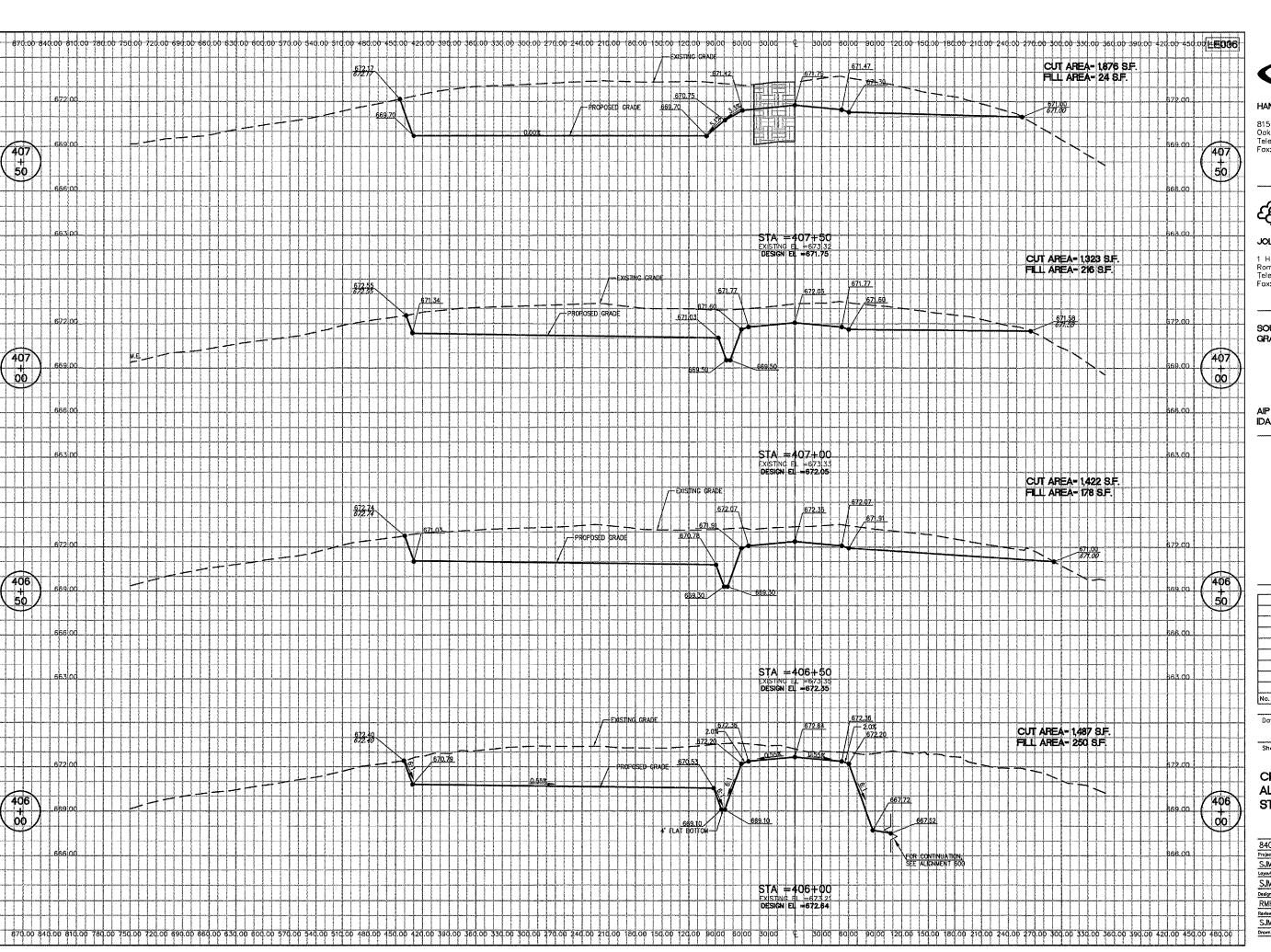
AIP PROJECT NO. 3-17-0140-B39 IDA PROJECT NO. LOT-3498



MAY 6, 2005

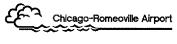
### **CROSS SECTIONS** ALIGNMENT 400 STA 404+67.27 TO 405+50

840-040	08042
Project Numbe	r
SJM	04/15/05
Layout By	Date
SJM	04/15/05
Designed By	Date
RMH/TMI	M 04/22/05
Reviewed By	Date





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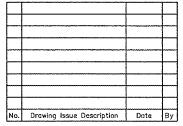


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### SOUTHWEST CORPORATE AREA, GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-B39 IDA PROJECT NO. LOT-3498



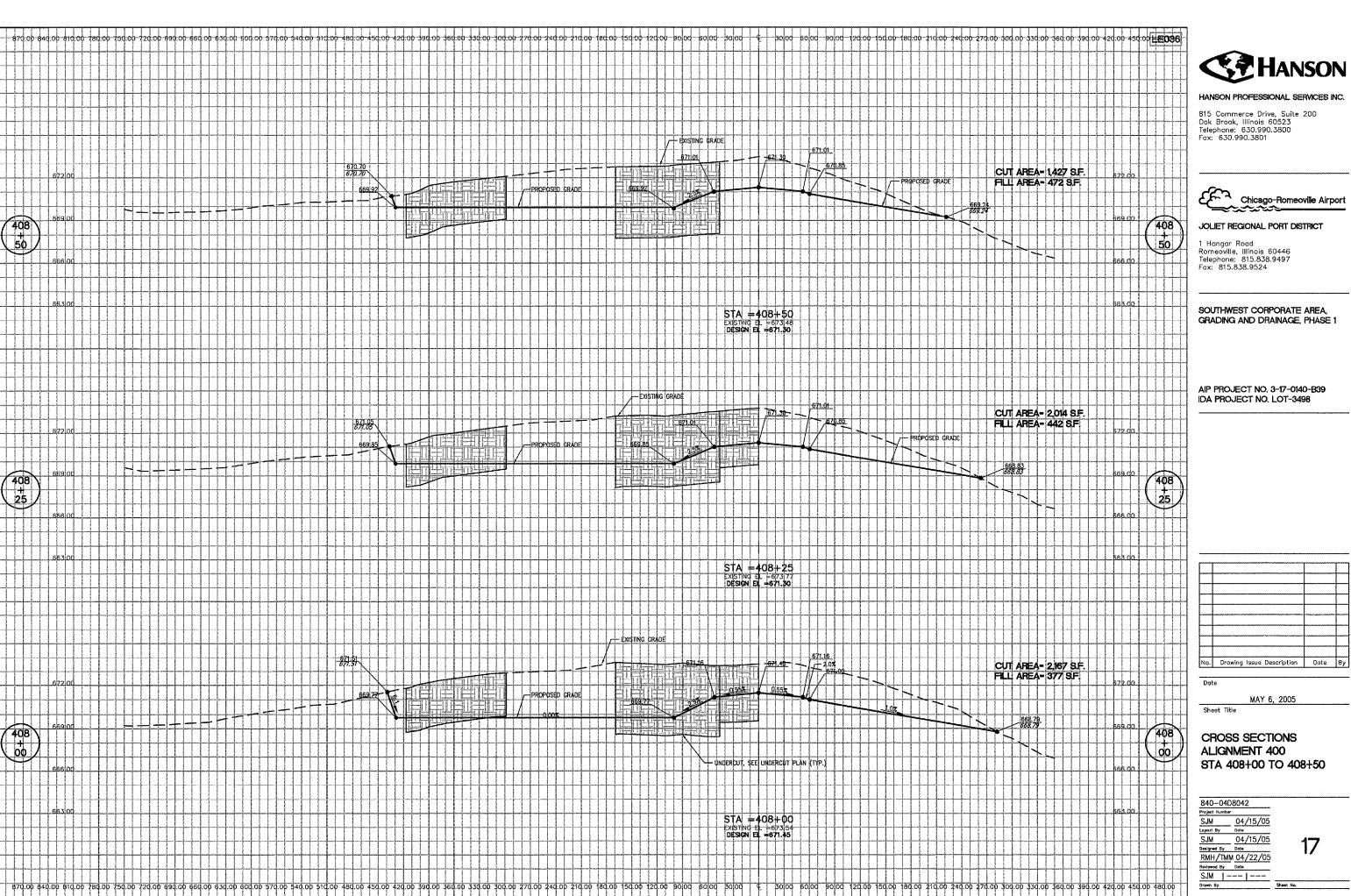
MAY 6, 2005

Sheet Title

### **CROSS SECTIONS** ALIGNMENT 400 STA 406+00 TO 407+50

840-04	08042
Project Number	r
SJM	04/15/05
Layout By	Date
SJM	04/15/05
Designed By	Date
RMH/TM	M 04/22/05
Reviewed By	Date
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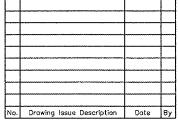




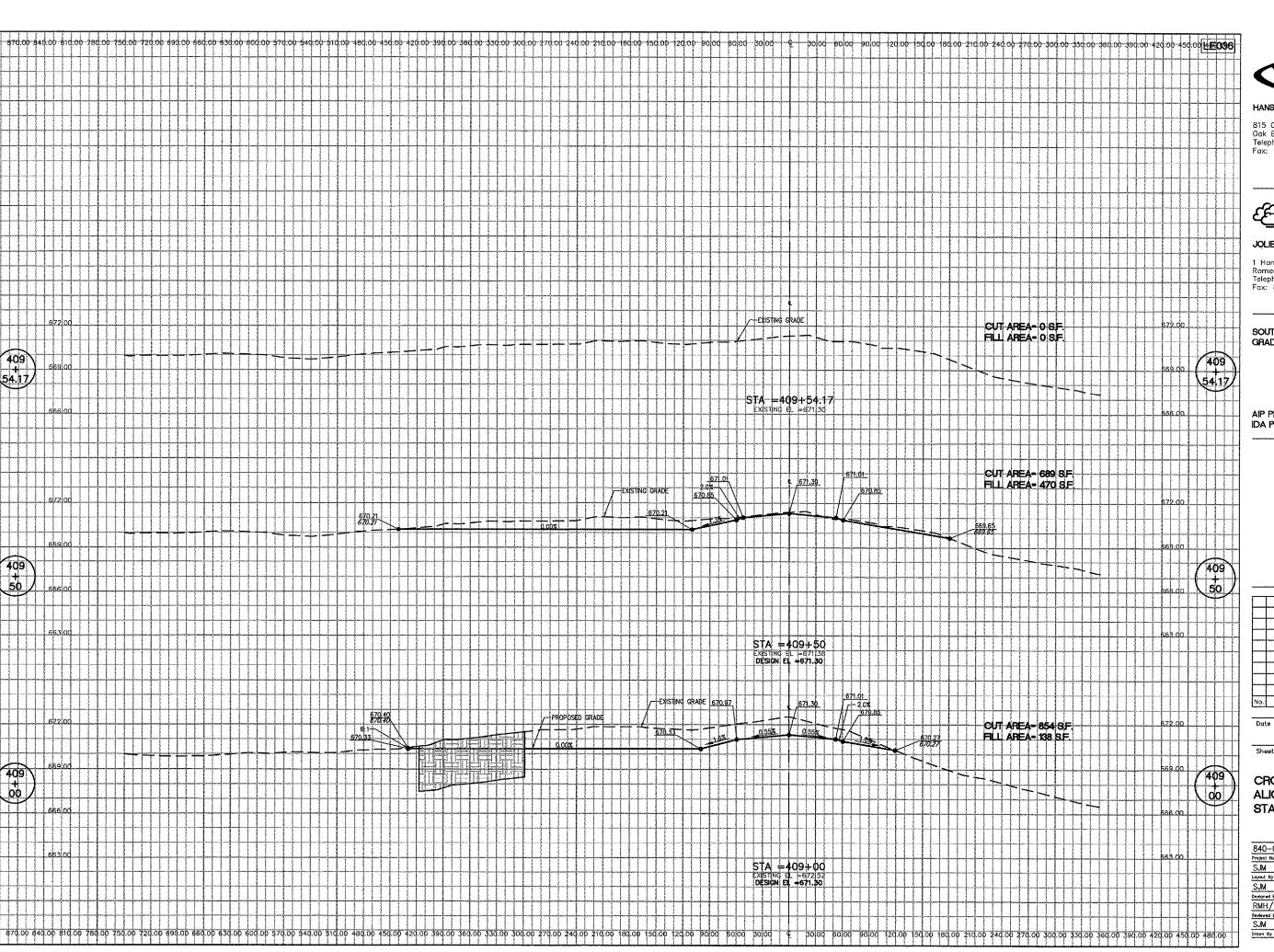


### SOUTHWEST CORPORATE AREA, GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-B39 IDA PROJECT NO. LOT-3498



# STA 408+00 TO 408+50





815 Commerce Drive, Suite 200 Ook Brook, Illinois 60523 Telephone: 630.990.3800 Fax: 630.990.3801

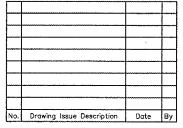


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### SOUTHWEST CORPORATE AREA, GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-B39 IDA PROJECT NO. LOT-3498



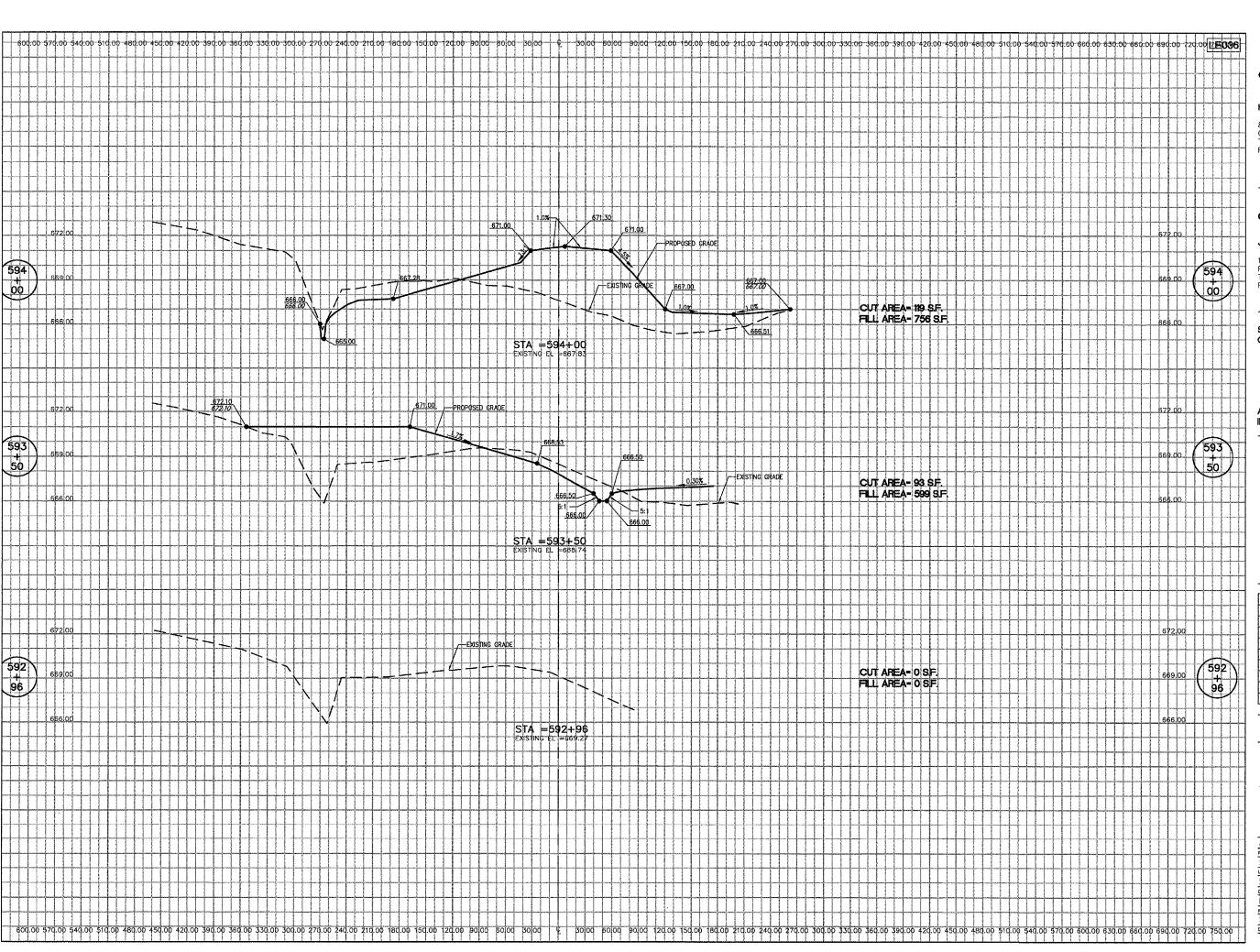
MAY 6, 2005

Sheet Title

### CROSS SECTIONS ALIGNMENT 400 STA 409+00 TO 409+54.17

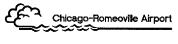
840-04D	8042
Project Number	
SJM	04/15/05
Layout By	Dote
SJM	04/15/05
Designed By	Dote
RMH/TMM	04/22/05
Reviewed By	Date
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815 Commerce Drive, Suite 200 Oak Brook, Illinois 60523 Telephone: 630.990.3800 Fax: 630.990.3801

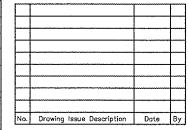


### JOLIET REGIONAL PORT DISTRICT

1 Hangar Road Romeoville, Illinois 60446 Telephone: 815.838.9497 Fax: 815.838.9524

SOUTHWEST CORPORATE AREA, GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-B39 IDA PROJECT NO. LOT-3498



Date

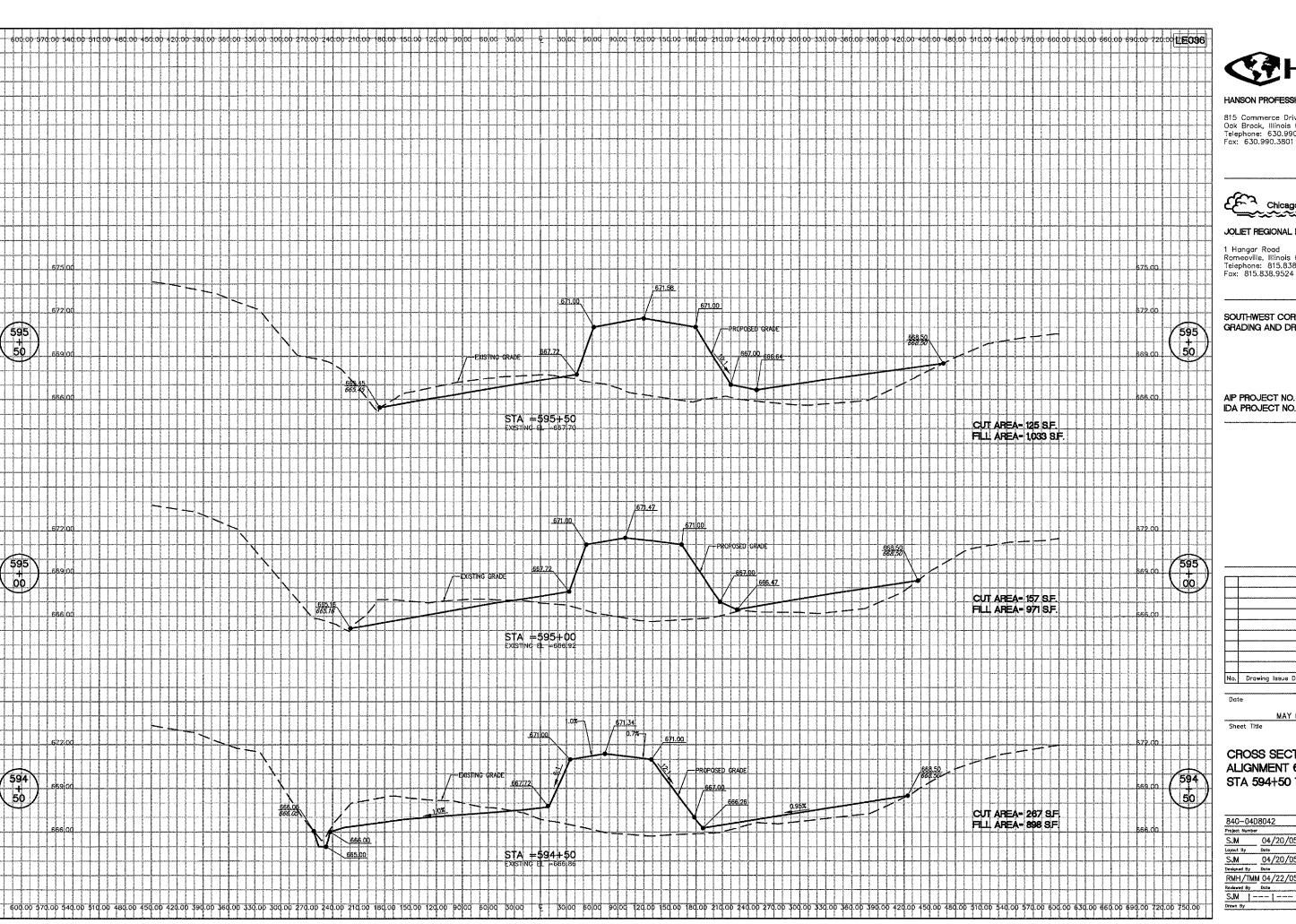
MAY 6, 2005

Sheet Title

CROSS SECTIONS ALIGNMENT 600 STA 592+96 TO STA 594+00

840-04D8	3042
Project Number	
SJM	04/20/05
Layout By	Date
SJM	04/20/05
Designed By	Date
RMH/TMM	04/22/05
Davidson at Dis	Date

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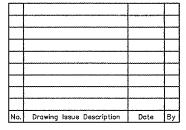


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### SOUTHWEST CORPORATE AREA, GRADING AND DRAINAGE, PHASE 1

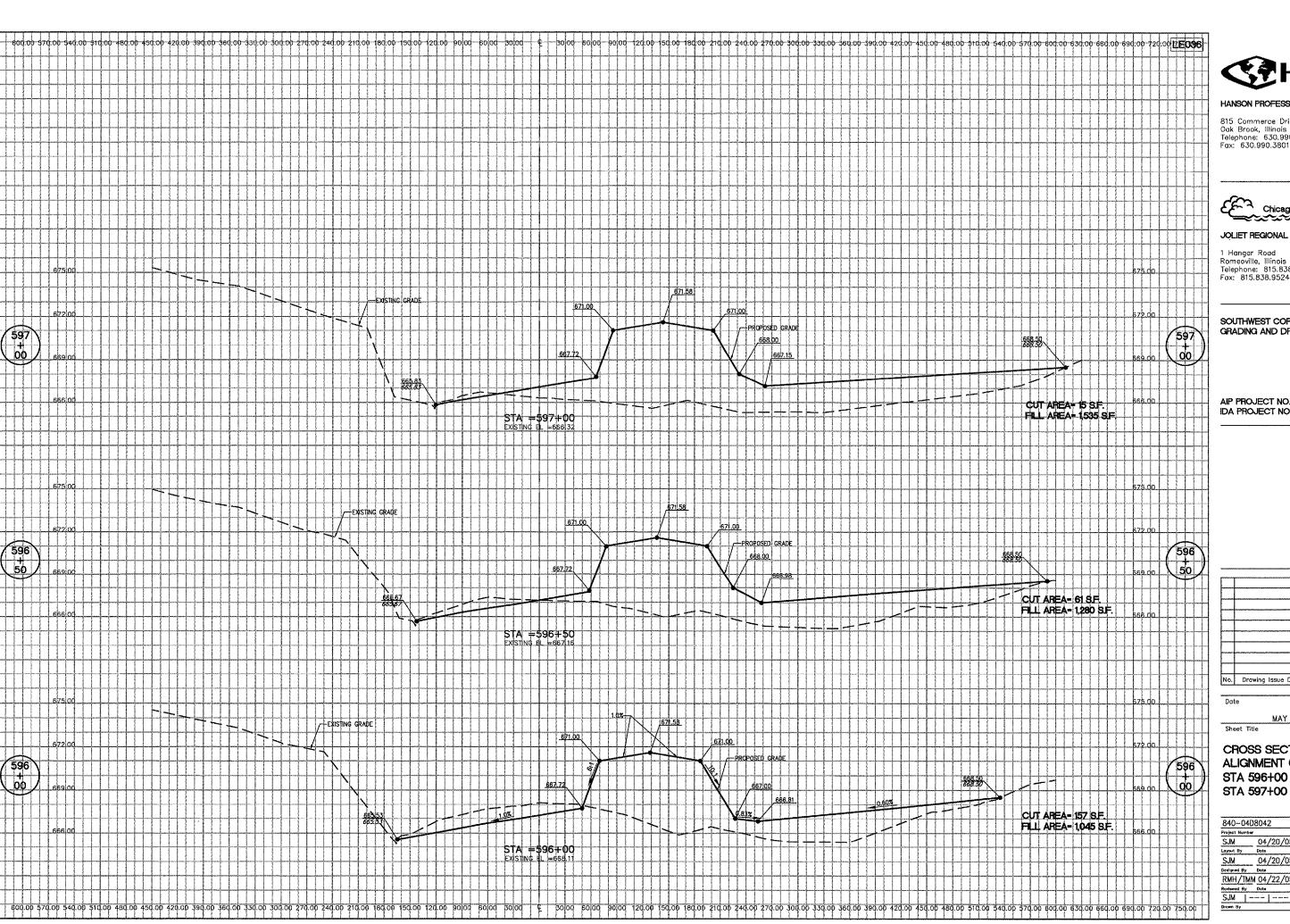
AIP PROJECT NO. 3-17-0140-B39 IDA PROJECT NO. LOT-3498



MAY 6, 2005

### **CROSS SECTIONS ALIGNMENT 600** STA 594+50 TO STA 595+50

840-04D	8042
Project Number	
SJM	04/20/05
Loyout By	Dote
SJM	04/20/05
Designed By	Date
RMH/TMM	04/22/05
Reviewed By	Date





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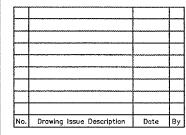


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SOUTHWEST CORPORATE AREA. GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-B39 IDA PROJECT NO. LOT-3498



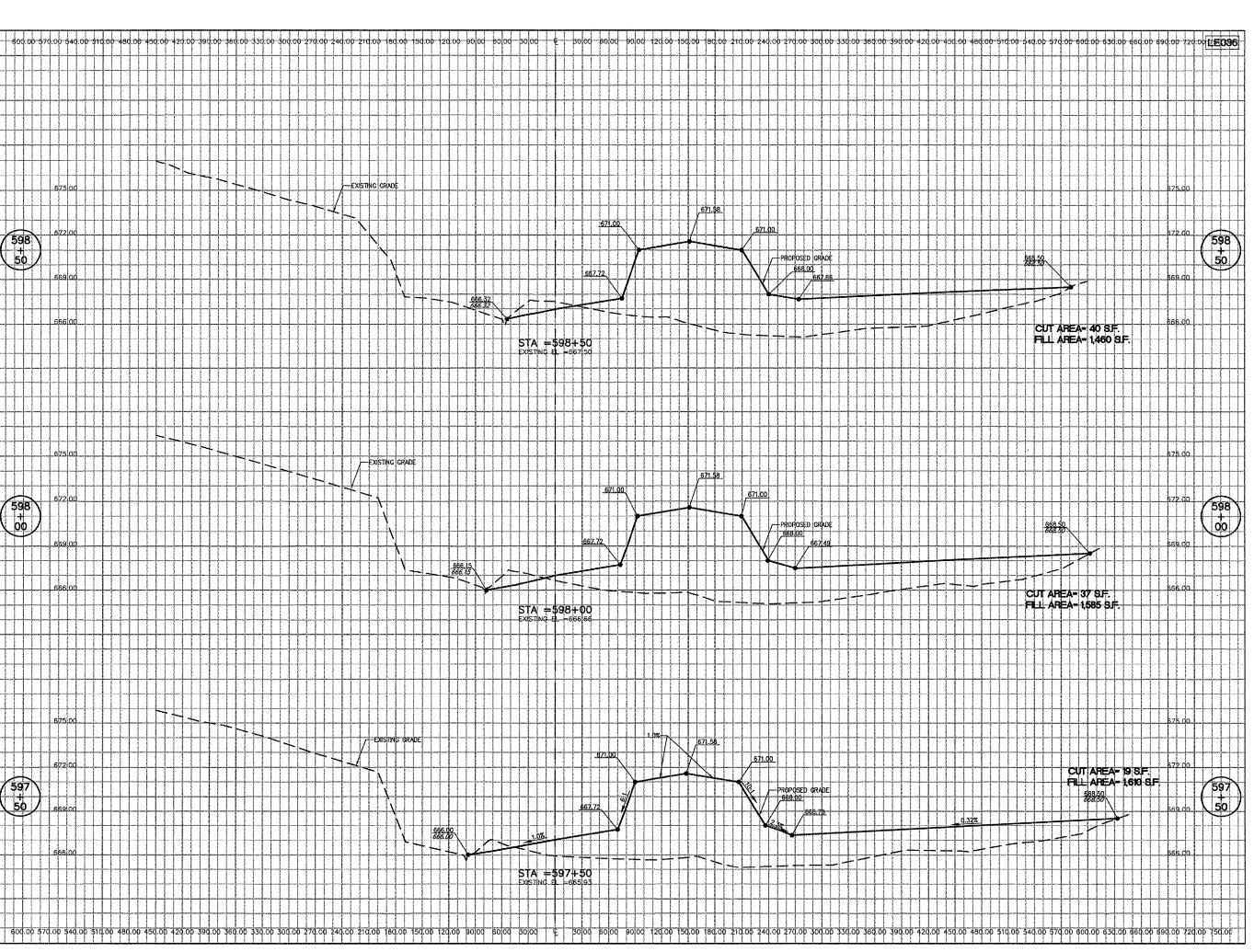
MAY 6, 2005

Sheet Title

**CROSS SECTIONS ALIGNMENT 600** STA 596+00 TO STA 597+00

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Designed 8	y Date
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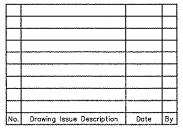


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SOUTHWEST CORPORATE AREA, GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-B39 IDA PROJECT NO. LOT-3498



Date

MAY 6, 2005

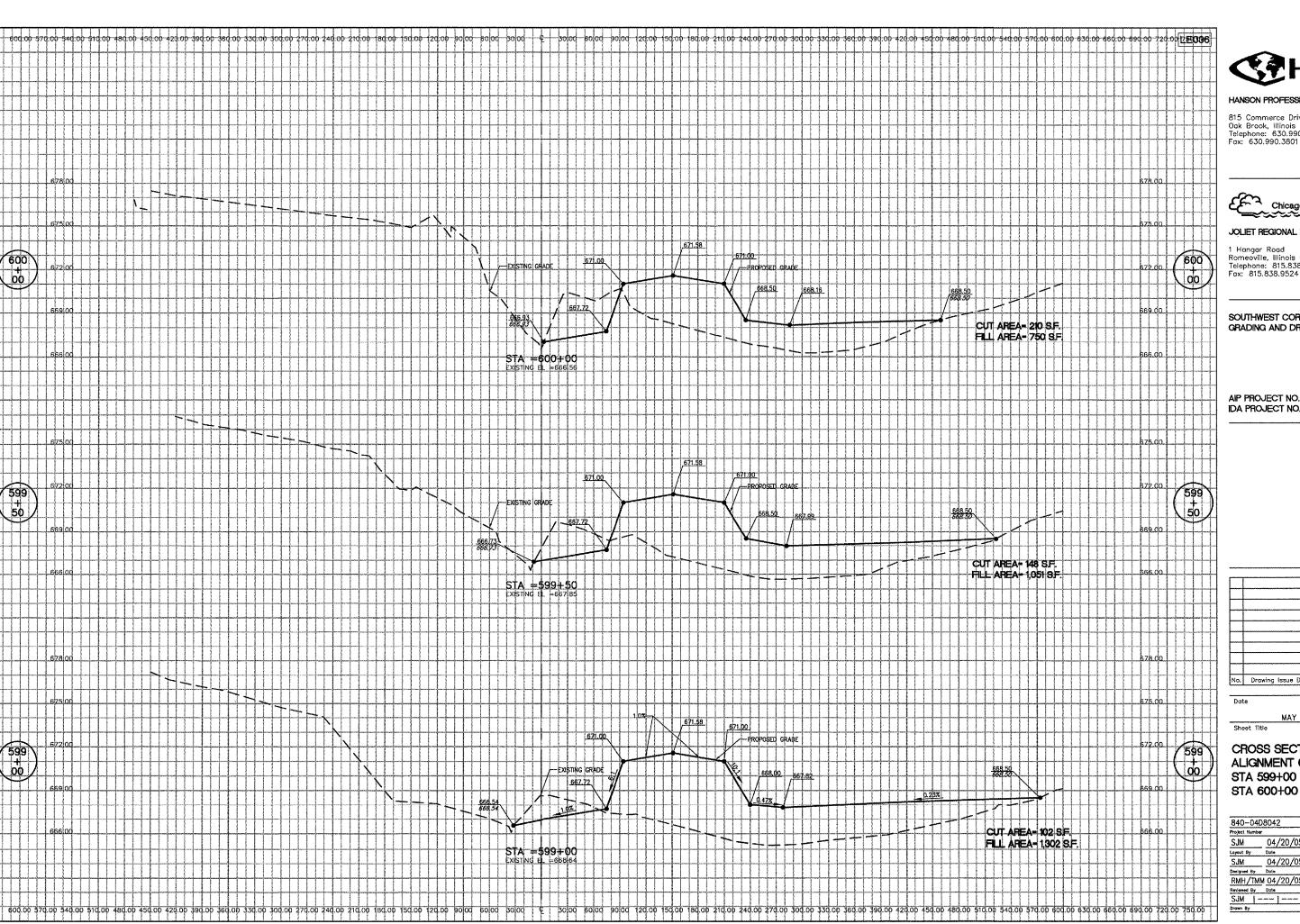
Sheet Title

CROSS SECTIONS ALIGNMENT 600 STA 597+50 TO STA 598+50

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Project Number	Υ
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Layout By	Dote
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Designed By	Dote
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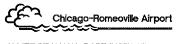
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SJM ---- Sheet No.





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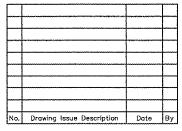


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### SOUTHWEST CORPORATE AREA, GRADING AND DRAINAGE, PHASE 1

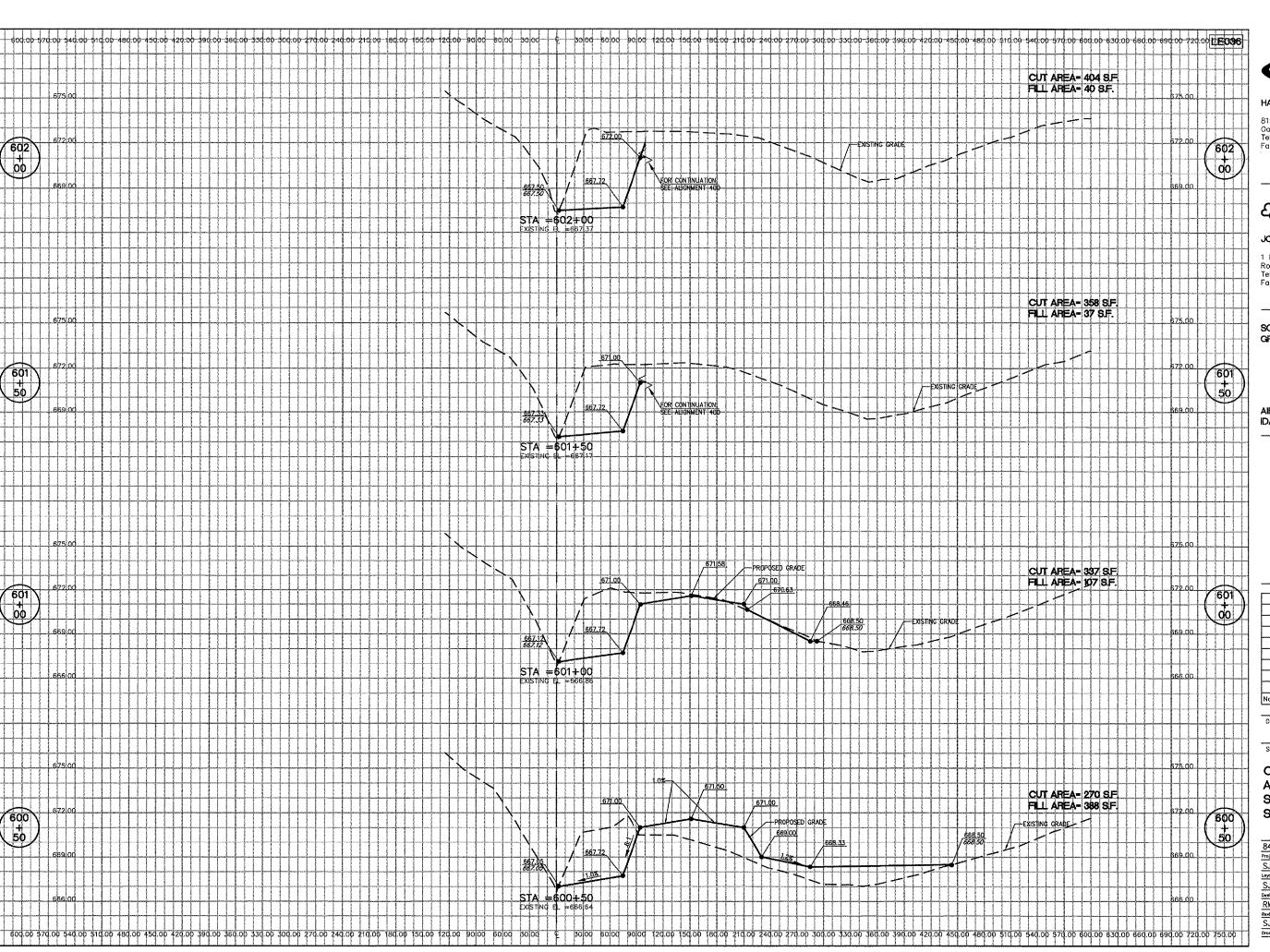
AIP PROJECT NO. 3-17-0140-B39 IDA PROJECT NO. LOT-3498



MAY 6, 2005

### **CROSS SECTIONS** ALIGNMENT 600 STA 599+00 TO STA 600+00

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Reviewed By	Date





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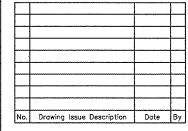


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SOUTHWEST CORPORATE AREA, GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-B39 IDA PROJECT NO. LOT-3498



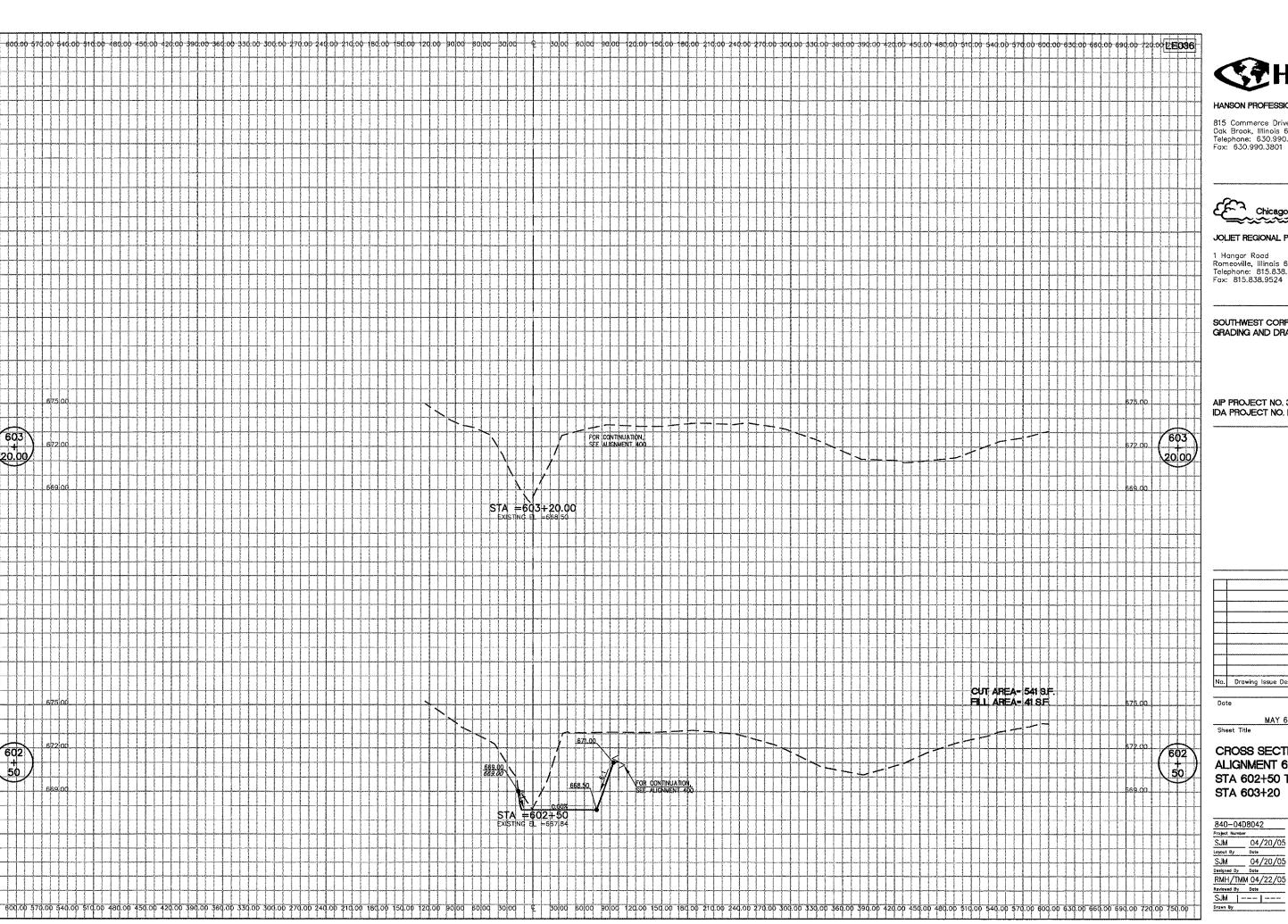
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CROSS SECTIONS ALIGNMENT 600 STA 600+50 TO STA 602+00

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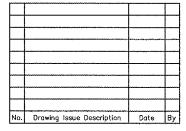


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SOUTHWEST CORPORATE AREA, GRADING AND DRAINAGE, PHASE 1

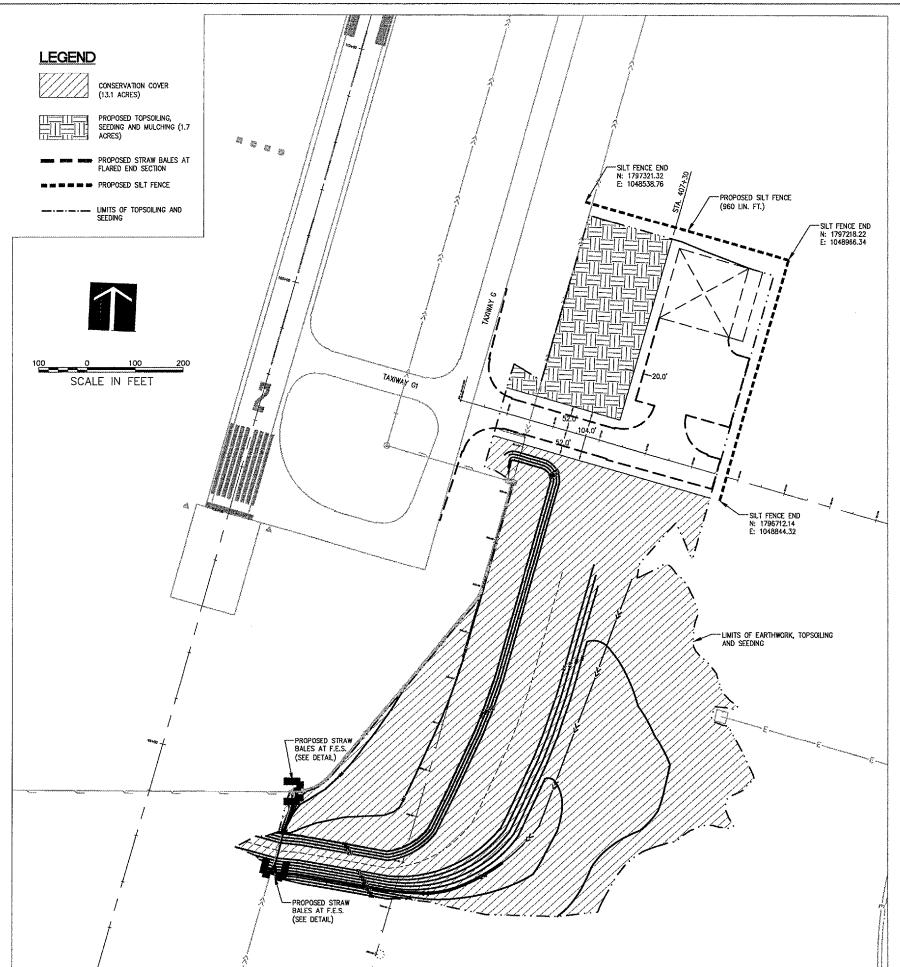
AIP PROJECT NO. 3-17-0140-B39 IDA PROJECT NO. LOT-3498



MAY 6, 2005

CROSS SECTIONS **ALIGNMENT 600** STA 602+50 TO STA 603+20

Project Number
SJM 04/20/05 SJM 04/20/05
Designed By Date



### STORM WATER POLLUTION PREVENTION NOTES

THE CONTRACTOR SHALL IMPLEMENT ALL PROVISIONS OF THE CONTRACT DOCUMENTS TO ASSURE THAT STORM WATER POLLUTION PREVENTION ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY MANNER. SEDIMENTATION MUST NOT BE TRANSPORTED OFF THE CONSTRUCTION SITE. PERMANENT DRAINAGE FEATURES AND VEGETATIVE MEASURES SHALL BE PROVIDED TO ASSURE THE CONSTRUCTION SITE. PERMANENT DRAINAGE FEATURES AND VEGETATIVE MEASURES SHALL BE PROVIDED.

THE MAINTENANCE OF ALL STORM WATER POLLUTION PREVENTION MEASURES IS INCIDENTAL TO THE ASSOCIATED ITEM.

### POLLUTION PREVENTION MEASURES

THE CONTRACTOR SHALL BE REQUIRED TO IMPLEMENT AND MAINTAIN STORM WATER POLLUTION PREVENTION PRACTICES AND MEASURES PRIOR TO THE STRIPPING OF EXISTING VEGETATION WHERE EVER POSSIBLE AND AS SOON AS CONSTRUCTION PERMITS IN OTHER AREAS. POLLUTION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, INCLUDING THESE CONSTRUCTION PLANS, AND WITH STANDARDS AND SPECIFICATIONS FOR SOL EROSION AND SEDMENT CONTROL, ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, CURRENT ISSUE. THE CONTRACTOR SHALL ADJUST HIS OPERATIONS AND IMPLEMENT POLLUTION CONTROL MEASURES SO THAT NO RUNOFF FROM STRIPPED AREAS WILL LEAVE THE CONSTRUCTION SITE OTHER THAN THROUGH SEDIMENT TRAPS OR OTHER SUITABLE CONTROL MEASURES.

POLLUTION CONTROL ITEMS SHALL BE PROVIDED AS NOTED ON THE STORM WATER POLLUTION PREVENTION PLAN AND IN THE STORM WATER POLLUTION PREVENTION DETAILS AND AS DIRECTED BY THE ENGINEER. THE LIMITS OF SUCH MEASURES SHALL BE STAKED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. SUCH LIMITS MAY BE ADJUSTED BY THE ENGINEER TO ACCOUNT FOR ACTUAL SITE CONDITIONS EXPERIENCED DURING CONSTRUCTION. ADDITIONAL COMPENSATION FOR MEASURES EXCEEDING THE PLAN QUANTITIES WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR EACH ITEM.

THE CONTRACTOR IS TO MAINTAIN AND ADJUST, REPAIR OR REPLACE ALL POLLUTION PREVENTION MEASURES AS REQUIRED OR AS DIRECTED BY THE ENGINEER UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. MAINTENANCE OF POLLUTION CONTROL MEASURES IS TO BE PROVIDED AT NO ADDITIONAL COST TO THE CONTRACT.

### LANDSCAPING NOTES

- 1. OUTER LIMITS OF TOPOILING, SEEDING AND MULCHING TO FOLLOW THE LIMITS SHOWN ON THIS SHEET. ADDITIONAL INFORMATION ON THE EARTHWORK LIMITS CAN BE FOUND ON THE CROSS SECTIONS AND STAKING PLAN.
- 2. AREAS SHOWN TO BE SEEDED WITH CONSERVATION COVER ARE NOT MULCHED.



### HANSON PROFESSIONAL SERVICES INC.

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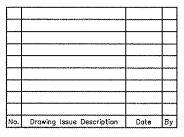


### JOLIET REGIONAL PORT DISTRICT

Hangar Road Romeoville, Illinois 60446 Telephone: 815.838.9497 Fax: 815.838.9524

SOUTHWEST CORPORATE AREA, GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-B39 IDA PROJECT NO. LOT-3498



SCALE IN FEET

MAY 6, 2005 Sheet Title

LANDSCAPING AND

### STORMWATER POLLUTION PREVENTION PLAN

B40-04D8	3042
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SJM	04/06/05
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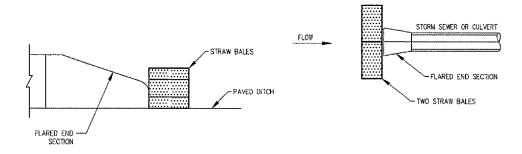
BACKFILL

(MIN.)

FABRIC ANCHOR DETAIL

- FENCE POST SHALL BE EITHER STEEL "1" LINE POST OR HARDWOOD POST WITH A MINIMUM SECTIONAL AREA OF 3.0 SQUARE INCHES.
- TOP AND BOTTOM WIRE OF WIRE FABRIC SHALL BE MINIMUM GAGE NO. 9. INTERMEDIATE WIRES OF THE WIRE FABRIC SHALL BE MINIMUM GAGE NO. 11.
- WIRE FABRIC SHALL BE SECURELY FASTENED TO FENCE POSTS WITH NO. 9 GAGE WIRE MINIMUM. FOUR (4) FASTENERS PER POST REQUIRED.
- FILTER FABRIC SHALL BE SECURELY FASTENED TO WIRE FABRIC AND POSTS WITH TIES OR STAPLES SPACED AT 12" APART AT THE TOP, MIDDLE AND BOTTOM.
- WHEN TWO SECTIONS OF FILTER FABRIC MEET, THEY SHALL BE OVERLAPPED BY 6" AND FOLDED AND ATTACHED TO THE WIRE FABRIC AT A POST.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED AND REPLACED WHEN BULGES DEVELOP IN THE SILT FENCE.
- FILTER FABRIC SHALL BE IN ACCORDANCE WITH SPECIAL PROVISIONS WITH EQUIVALENT OPENING SIZE OF AT LEAST 30 FOR NONWOVEN AND 50 FOR WOVEN.
- WIRE FABRIC MAY BE OMITTED IF A MAXIMUM OF 5 FEET IS USED FOR POST-TO-POST SPACING.
- SILT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. PERIODIC INSPECTION SHALL BE PERFORMED AND REQUIRED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN EVENT.
- 10. FENCE POSTS SHALL BE REMOVED WHEN DIRECTED AT PROJECT END.

SILT FENCE PLAN



### **PROFILE**

<u>PLAN</u>

- INSPECTION SHALL BE DAILY AND REPAIR AND/OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- TEMPORARY BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
- 3. PERIODIC INSPECTION SHALL BE PERFORMED AND REQUIRED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN EVENT.

### STRAW BALE AT FLARED END SECTION



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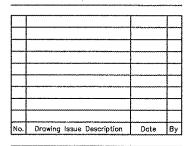


JOLIET REGIONAL PORT DISTRICT

1 Hangar Road Romeoville, Illinois 60446 Telephone: 815.838.9497 Fax: 815.838.9524

SOUTHWEST CORPORATE AREA, GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-B39 IDA PROJECT NO. LOT-3498



Date

MAY 6, 2005

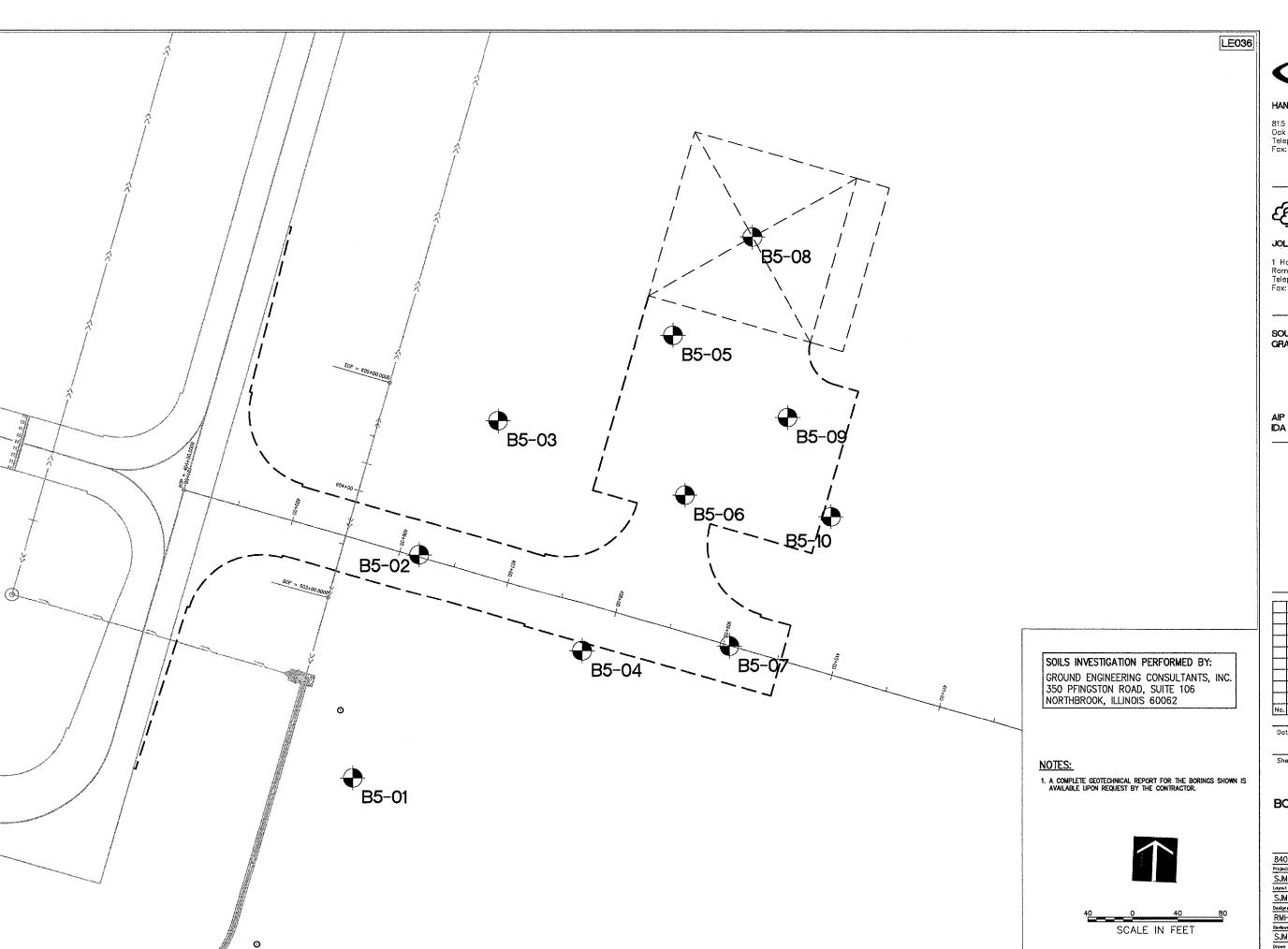
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# STORMWATER POLLUTION PREVENTION DETAILS

2

DETAILS SHOWN ARE NOT TO SCALE

EXISTING OF





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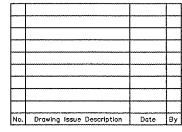


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AIP PROJECT NO. 3-17-0140-B39 IDA PROJECT NO. LOT-3498

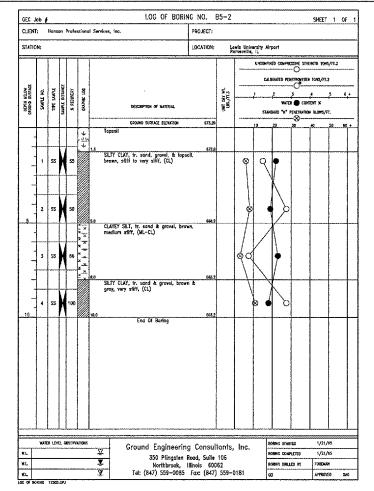


MAY 6, 2005

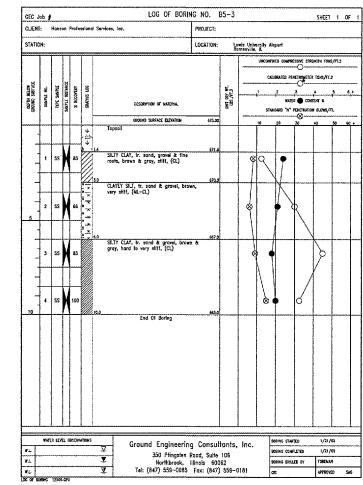
Sheet Title

### BORING LOCATION MAP

840-04D	8042
roject Number	
SJM	04/07/05
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RMH/TMN	04/22/05
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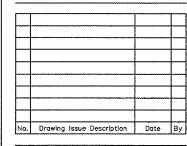


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SOUTHWEST CORPORATE AREA. GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-B39 IDA PROJECT NO. LOT-3498



MAY 6, 2005

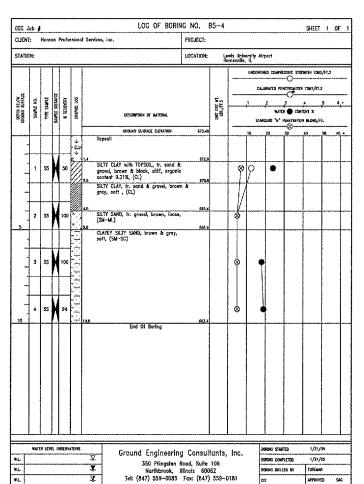
Sheet Title

**BORING LOGS** B5-1 THRU B5-5

Project Number	
SJM	04/06/05
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SJM	04/06/05
Designed By	Date
RMH /TMN	04/22/05

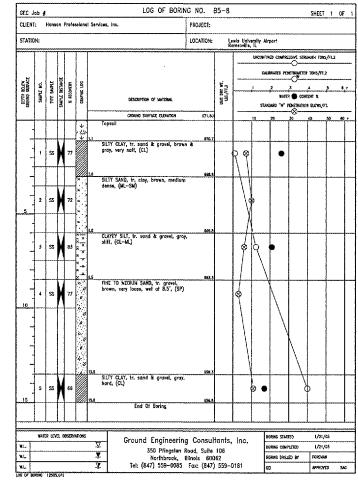
CLIENT: Hanson Professional Services, Inc. STATION: LOCATION: Lewis University Airport Romacville, IL 3 4 5 6,+ DESCRIPTION OF MATERIAL SILTY CLAY, tr. sand, gravel & organics, brown, stiff, (CL) SANDY SILT, fr. gravel, brown, wet at 9, loose, (SM) BORING COMPLETED 1/21/05 WATER LEVEL COSERVATIONS Ground Engineering Consultants, Inc. 350 Pfingsten Road, Suite 106 Northbrook, illinois 60062 Tel: (847) 559-0085 Fax: (847) 559-0181 BORNE DRILLED BY FOREMAN

LOG OF BORING NO. B5~5

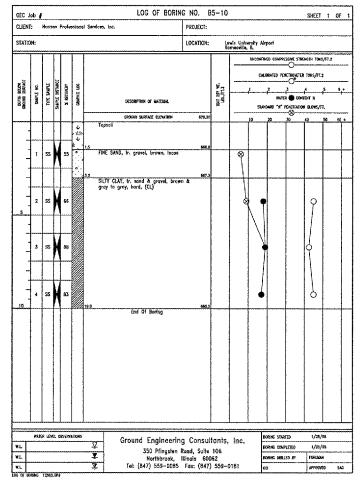


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### JOLIET REGIONAL PORT DISTRICT

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SOUTHWEST CORPORATE AREA, GRADING AND DRAINAGE, PHASE 1

AIP PROJECT NO. 3-17-0140-B39 IDA PROJECT NO. LOT-3498

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No.	Drawing Issue Description	Date	Ву

MAY 6, 2005

Sheet Title

### BORING LOGS B5-6 THRU B5-10

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Layout By	Date
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