

# CONSTRUCTION PLANS FOR VANDALIA MUNICIPAL AIRPORT VANDALIA, FAYETTE COUNTY, ILLINOIS CONSTRUCT HANGAR ACCESS TAXIWAY

**SCOPE OF WORK**

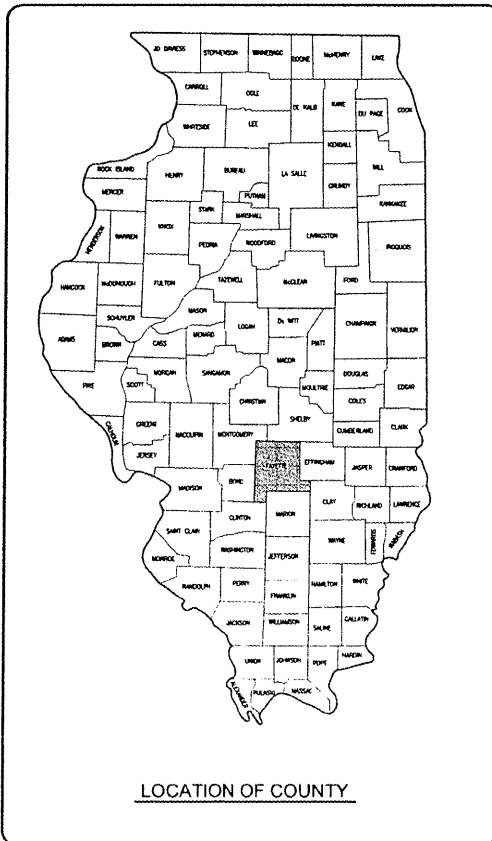
THIS PROJECT CONSISTS OF CONSTRUCTING A HANGAR ACCESS TAXIWAY. ASSOCIATED WORK ITEMS SHALL CONSISTS OF UNCLASSIFIED EXCAVATION, INSTALLATION OF DRAINAGE, PAVING, SEEDING AND MULCHING.

**ALTERNATE NO. 1**

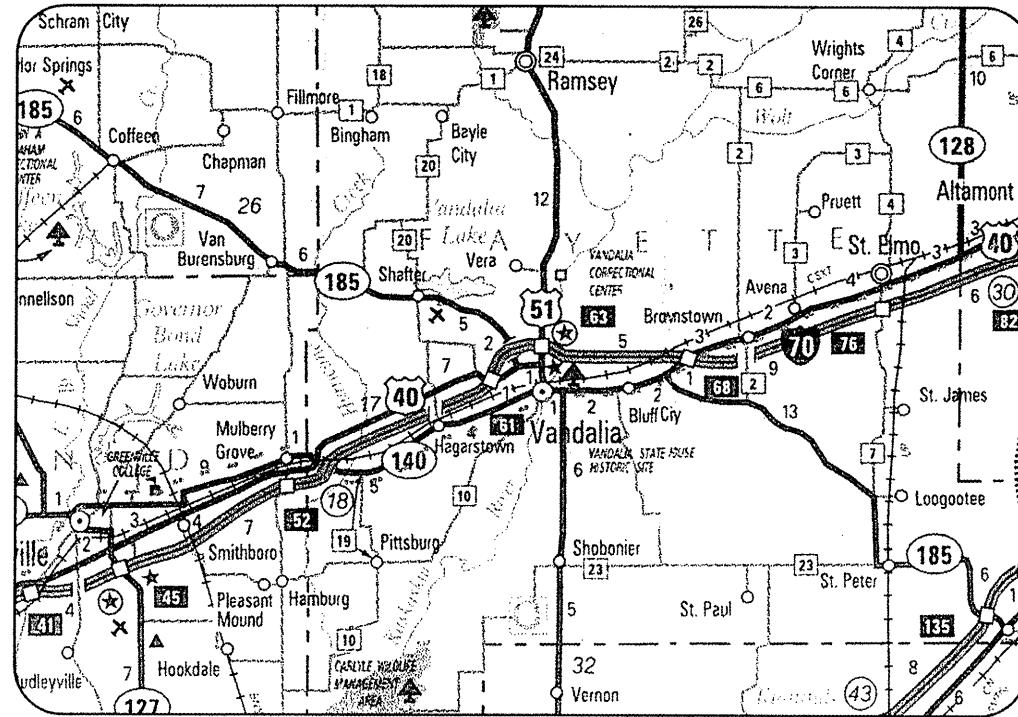
CONSISTS OF A 4" BITUMINOUS SURFACE COURSE, 6" CRUSHED AGGREGATE BASE COUSE.

**ALTERNATE NO. 2**

CONSISTS OF A 6" PCC PAVEMENT, 4" CRUSHED AGGREGATE BASE COURSE.

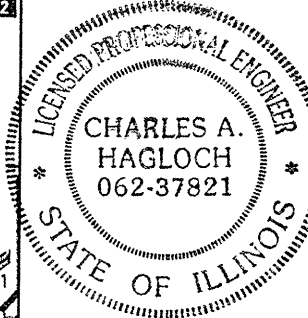


LOCATION OF COUNTY



### LOCATION

ILL. PROJ.: VLA-3724  
A.I.P. PROJ.: 3-17-0102-B10  
LATITUDE: 38° 59' 32"  
LONGITUDE: 89° 09' 54"  
ELEVATION: 538' M.S.L.  
DATE: JUNE 26, 2008



**HANSON**  
Hanson Professional Services Inc.  
Submitted by *Charles A. Hagloch* ENGR  
Date Submitted JUNE 27, 2008  
Lic. Exp. Date Nov. 30, 2009

VANDALIA PARK DISTRICT  
Approved *MARK A. Miller* CHAIRMAN  
Date \_\_\_\_\_  
Approved *Shirley Blythe* SECRETARY  
Date \_\_\_\_\_

DATE	REVISION	BY

VANDALIA MUNICIPAL AIRPORT  
VANDALIA, ILLINOIS  
A.I.P. PROJ.: 3-17-0102-B10  
IL. PROJ.: VLA-3724

FILE PROJECT NO.	DATE
07A0088D_0800	12/3/07
R-001CVR.DWG	12/3/07
Scale: NOT TO SCALE	12/3/07
Date: 12/3/07	

LAYOUT	BAK	12/3/07

**HANSON**  
Hanson Professional Services Inc.  
1525 South Sixth Street  
Springfield, Illinois 62703-2886  
Offices Nationwide

CONSTRUCT HANGAR  
ACCESS TAXIWAY  
COVER SHEET

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VA018

DATE	REVISION	BY

**SUMMARY OF QUANTITIES**

**BASE BID**

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITIES	AS BUILT QUANTITIES
AR150510	ENGINEER'S FIELD OFFICE	L.S.	1	
AR152410	UNCLASSIFIED EXCAVATION	C.Y.	151	
AR152440	BORROW EXCAVATION	C.Y.	863	
AR401665	BITUMINOUS PAVEMENT SAWING	L.F.	285	
AR620520	PAVEMENT MARKING-WATERBORNE	S.F.	356	
AR701008	8" PVC STORM SEWER	L.F.	217	
AR751411	INLET-TYPE A	EACH	2	
AR752850	SPECIAL STRUCTURE	EACH	1	
AR901510	SEEDING	ACRE	0.3	
AR908510	MULCHING	ACRE	0.3	

**ALTERNATE NO. 1**

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITIES	AS BUILT QUANTITIES
AS209510	CRUSHED AGGREGATE BASE COURSE	TON	345	
AS401610	BITUMINOUS SURFACE COURSE	TON	227	
AS602510	BITUMINOUS PRIME COAT	GAL.	337	
AS603510	BITUMINOUS TACK COAT	GAL.	142	

**ALTERNATE NO. 2**

ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITIES	AS BUILT QUANTITIES
AT209510	CRUSHED AGGREGATE BASE COURSE	TON	230	
AT501506	6" PCC PAVEMENT	S.Y.	952	

**INDEX TO SHEETS**

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SUMMARY OF QUANTITIES AND INDEX TO SHEETS
3	PROPOSED SAFETY PLAN
4	PROPOSED CONSTRUCTION PLAN
5	PROPOSED DRAINAGE PLAN
6	PROPOSED STAKING PLAN
7	PROPOSED MARKING PLAN
8	PROPOSED NOTES AND DETAILS
9	PROPOSED JOINTING PLAN
10	PROPOSED JOINTING DETAILS AND NOTES
11	PROPOSED CROSS-SECTIONS FOR HANGAR ACCESS TAXIWAY STA. 4+66.50 TO STA. 5+00
12	PROPOSED CROSS-SECTIONS FOR HANGAR ACCESS TAXIWAY STA. 5+25 TO STA. 6+00
13	PROPOSED CROSS-SECTIONS FOR HANGAR ACCESS TAXIWAY STA. 6+25 TO STA. 7+00
14	PROPOSED CROSS-SECTIONS FOR HANGAR ACCESS TAXIWAY STA. 7+25 TO STA. 7+75
15	PROPOSED CROSS-SECTIONS FOR HANGAR ACCESS TAXIWAY STA. 8+00 TO STA. 8+25

VANDALIA MUNICIPAL AIRPORT  
 VANDALIA, ILLINOIS

IL PROJ.: VA-3724 A.I.P. PROJ.: 3-17-0102-B10

H&H Project No. 07A008B.0800  
 Filename R-002FLP.DWG  
 Scale NOT TO SCALE  
 Date 12/3/07

LAYOUT	BAK	12/3/07
DRAWN	BAK	12/3/07
REVIEWED	CAH	01/11/08



Hanson Professional Services Inc.  
 1625 South State Street  
 Springfield, Illinois 62703-2886  
 Offices Nationwide

CONSTRUCT HANGAR  
 ACCESS TAXIWAY  
 SUMMARY OF QUANTITIES  
 AND  
 INDEX TO SHEETS

**SCOPE OF WORK**

THIS PROJECT CONSISTS OF CONSTRUCTING A HANGAR ACCESS TAXIWAY. ASSOCIATED WORK ITEMS SHALL CONSIST OF UNCLASSIFIED EXCAVATION, INSTALLATION OF DRAINAGE, PAVING, SEEDING AND MULCHING.

**ALTERNATE NO. 1**

CONSISTS OF A 4" BITUMINOUS SURFACE COURSE, 6" CRUSHED AGGREGATE BASE COURSE.

**ALTERNATE NO. 2**

NO. 2 CONSISTS OF A 6" PCC PAVEMENT, 4" CRUSHED AGGREGATE BASE COURSE

**UTILITY NOTE**

THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND AGENCIES WHICH HAVE LINES OR CONDUITS IN THE PROPOSED WORK AREA. ALL LINES AND CONDUITS SHALL BE LOCATED AND IDENTIFIED FOR DEPTH BEFORE ANY EXCAVATION BEGINS. THE CONTRACTOR WILL CALL J.U.L.I.E. (1-800-892-0123) TO ACCOMPLISH THE ABOVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY ALL UNDERGROUND NON-JULIE UTILITIES LOCATED WITHIN THE PROPOSED CONSTRUCTION LIMITS. THESE UNDERGROUND IMPROVEMENTS WILL BE LOCATED AT THE CONTRACTOR'S OWN EXPENSE PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.

**HEIGHT OF CONSTRUCTION EQUIPMENT**

THE MAXIMUM ANTICIPATED HEIGHT OF THE CONSTRUCTION EQUIPMENT WILL BE 15 FEET. THE TALLEST EQUIPMENT IS EXPECTED TO BE A CONCRETE TRUCK.

**HAUL ROUTE AND VEHICLE PARKING**

THE CONTRACTOR WILL USE THE DESIGNATED HAUL ROUTE AND PARKING AREA AS SHOWN ON THIS SHEET. THE PROPOSED PARKING AREA WILL BE 200' X 200'. THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN THE PROPOSED HAUL ROUTE AND PARKING AREA THROUGHOUT THE COURSE OF THE PROJECT. ANY AREAS DAMAGED OUTSIDE OF THESE AREAS WILL BE REPAIRED BY THE CONTRACTOR AND AT THE CONTRACTOR'S OWN EXPENSE. AT THE CONCLUSION OF THE PROJECT THE CONTRACTOR WILL GRADE, FERTILIZE, SEED AND MULCH THE HAUL ROUTE AND PARKING AREA AS NEEDED TO RESTORE IT TO ITS ORIGINAL STATE. RESTORATION OF THE HAUL ROUTE AND PARKING AREA WILL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

**CONTRACTOR RESPONSIBILITIES**

THE CONTRACTOR'S EQUIPMENT PARKING AND STORAGE AREA WILL BE AS SHOWN ON THIS SHEET. ONLY CONTRACTOR VEHICLES WILL BE ALLOWED OUTSIDE THIS AREA.

THE CONTRACTOR AND HIS EMPLOYEES WILL BE RESTRICTED TO THE WORK AREA AND ALL OTHER AREAS OF THE AIRPORT ARE "OFF LIMITS" TO THEM.

THE CONTRACTOR SHALL KEEP ONE RUNWAY OPEN AT ALL TIMES AND MAINTAIN CONTINUOUS TAXIWAY ACCESS TO ALL HANGARS AND ADMINISTRATIVE AREAS.

ALL WORK PERFORMED SHALL BE DONE IN A ORDERLY AND EFFECTIVE MANNER TO MINIMIZE RUNWAY CLOSURE.

NO TRENCHES OR HOLES WILL REMAIN OPEN OVERNIGHT.

NO RUNWAY SHALL BE CLOSED.

**BARRICADES AND TRAFFIC CONES**

IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PLACE AND MAINTAIN BARRICADES AND TRAFFIC CONES AS DIRECTED BY THE AIRPORT MANAGER. THE BARRICADES WILL BE EQUIPPED WITH RED FLASHING OR RED STEADY-BURN LIGHTS AND 20" SQUARE ORANGE FLAGS. THE BARRICADES, THEIR MAINTENANCE, PLACEMENT AND REMOVAL WILL BE CONSIDERED AS AN INCIDENTAL ITEM TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

**LEGEND**

- EXISTING IMPROVEMENTS
- PROPOSED IMPROVEMENTS
- EXISTING BUILDINGS
- PROPOSED HAUL ROUTE AND EMPLOYEE PARKING AREA
- PROPOSED EQUIPMENT PARKING AREA
- PROPOSED BENCHMARK
- PROPOSED BARRICADES OR TRAFFIC CONES

THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH MAINS AND SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

CALL J.U.L.I.E. FOR UTILITY INFORMATION AT 1-800-892-0123.

BENCHMARK DATA		
NO.	DESCRIPTION	ELEV.
1	CHISELED SQUARE ON TOP OF 18" CONCRETE CULVERT FLARED END SECTION	530.89
2	CHISELED SQUARE ON TOP OF 18" CONCRETE CULVERT BELL HOUSING	532.01
3	CHISELED SQUARE ON TOP OF 24" CONCRETE CULVERT FLARED END SECTION	530.77
4	NGS MONUMENT "VANPORT" - NGS STEEL ROD IN SLEEVE 49' EAST OF EAST EDGE OF TAXIWAY "A", 102' SOUTH OF CENTERLINE OF RUNWAY 9-27	532.18

**CERTIFIED PAYROLLS**

THE RESIDENT ENGINEER CANNOT FORWARD CONSTRUCTION REPORTS TO THE ILLINOIS DIVISION OF AERONAUTICS FOR PROCESSING UNTIL ALL CERTIFIED PAYROLLS FOR THE PERIOD HAVE BEEN RECEIVED.

**MATERIAL CERTIFICATION**

COMPLETED WORK CANNOT BE PLACED ON A CONSTRUCTION REPORT UNTIL ALL MATERIAL CERTIFICATIONS FOR THAT PAY ITEM HAVE BEEN RECEIVED, REVIEWED AND ACCEPTED BY THE RESIDENT ENGINEER.

**J.U.L.I.E. INFORMATION**

COUNTY: FAYETTE  
CITY: VANDALIA  
TOWNSHIP: BEAR GROVE  
SECTION NO.: 2  
ADDRESS: VANDALIA MUNICIPAL AIRPORT  
R.R. #3  
VANDALIA, ILLINOIS 62471

**CRITICAL POINT DATA**

LATITUDE: 38° 59' 14.28673"  
LONGITUDE: 89° 09' 53.73149"  
ELEVATION: 531.20 M.S.L.

**PROPOSED SAFETY PLAN**

GENERAL - THE VANDALIA MUNICIPAL AIRPORT IS COMPRISED OF TWO RUNWAYS. THE PROPOSED CONSTRUCTION WILL NOT NECESSITATE CLOSING EITHER RUNWAY.

IDENTIFICATION - WHEN THE CONTRACTORS VEHICLES AND EQUIPMENT ARE ON THE AIRPORT THEY SHALL BE PROPERLY MARKED WITH THREE (3) FOOT SQUARE CHECKERED FLAGS (INTERNATIONAL ORANGE AND WHITE). THE CONTRACTOR WILL ALSO PROVIDE WORKERS WITH SOME TYPE OF TAG OR GARMENT TO IDENTIFY THE PERSON AS BEING PART OF THE CONSTRUCTION CREW.

RADIO CONTROL - THE CONTRACTOR WILL BE REQUIRED TO BE IN TWO-WAY RADIO CONTACT (122.80 MHz.) WITH THE AIRPORT UNICOM. THIS WILL KEEP THE CONTRACTOR IN CONSTANT CONTACT WITH THE VANDALIA MUNICIPAL AIRPORT AND ENABLE THE AIRPORT TO IMMEDIATELY CONTACT THE CONTRACTOR IN CASE OF AN AERONAUTIC EMERGENCY THAT WOULD REQUIRE ACTION BY THE CONTRACTOR AND/OR HIS PERSONNEL.

**EROSION CONTROL**

THIS PROJECT WILL DISTURB LESS THAN 1 ACRE OF LAND, THEREFORE NO N.P.D.E.S. PERMIT WILL BE REQUIRED.

**150-ENGINEER'S FIELD OFFICE NOTES**

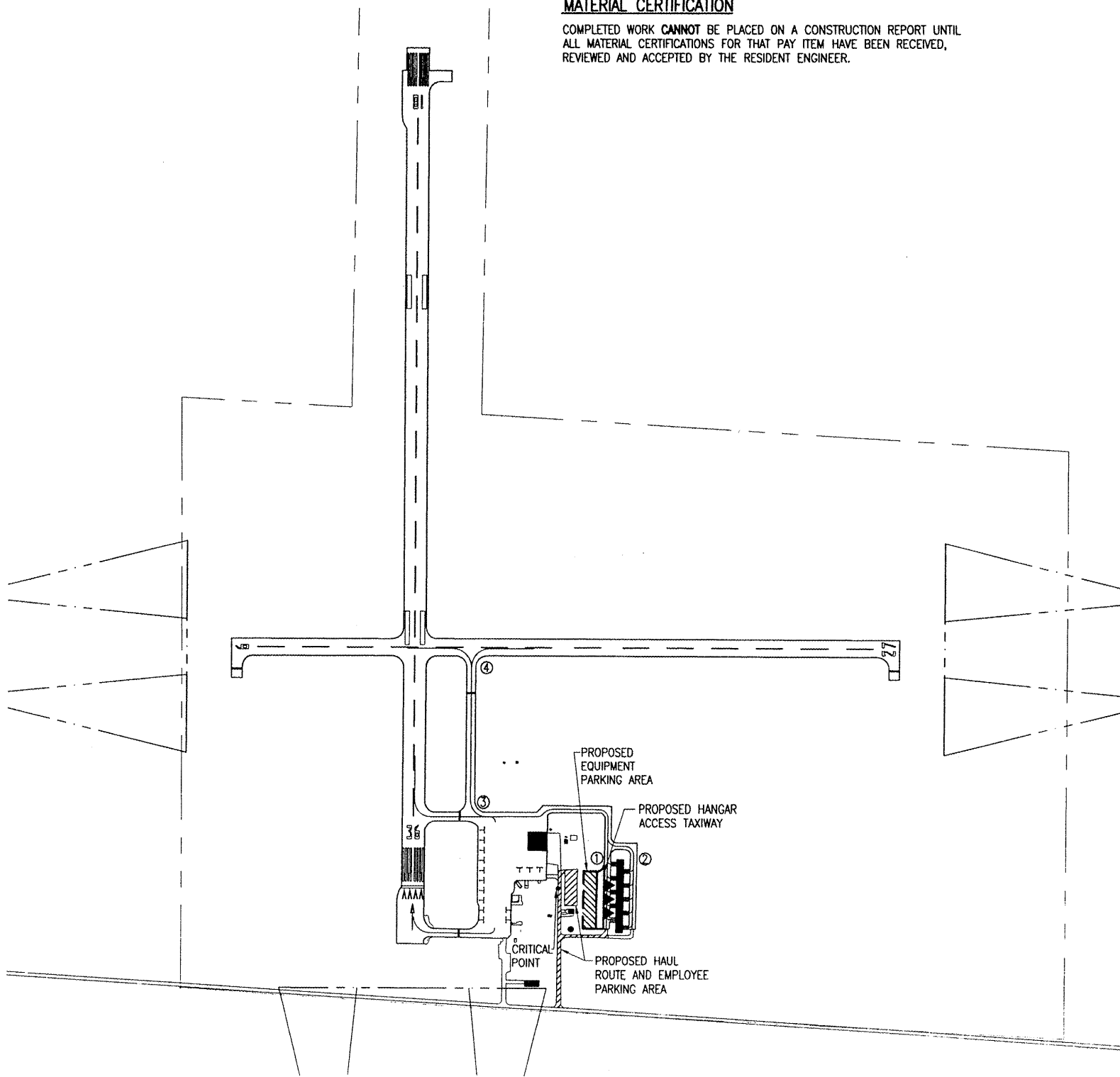
THE PROPOSED ENGINEER'S FIELD OFFICE WILL BE FURNISHED, MAINTAINED, AND REMOVED IN ACCORDANCE WITH ITEM AR150510 "ENGINEER'S FIELD OFFICE" AS STATED ON PAGE 168 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THE LOCATION OF THE PROPOSED ENGINEER'S FIELD OFFICE WILL BE DETERMINED AT THE PRE-CONSTRUCTION MEETING.

THE ENGINEERING FIRM WILL MAKE PAYMENT FOR ALL LONG DISTANCE TELEPHONE CALLS IN EXCESS OF ONE HUNDRED DOLLARS (\$100.00) PER MONTH.

THE CONTRACTOR WILL FURNISH A CELL PHONE TO THE RESIDENT ENGINEER FOR HIS EXCLUSIVE USE FOR THE DURATION OF THE PROJECT. THE RESIDENT ENGINEER WILL USE THIS PHONE FOR PROJECT BUSINESS ONLY. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL CHARGES ASSOCIATED WITH THIS CELL PHONE.

THE PROPOSED ENGINEER'S FIELD OFFICE WILL BE PAID FOR UNDER ITEMS: AR150510 ENGINEER'S FIELD OFFICE 1 L.S.



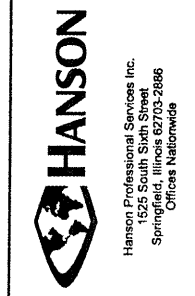
VA018

DATE	REVISION

VANDALIA MUNICIPAL AIRPORT  
VANDALIA, ILLINOIS

IL PROJ.: V/A-3724 A.I.P. PROJ.: 3-17-0102-B10

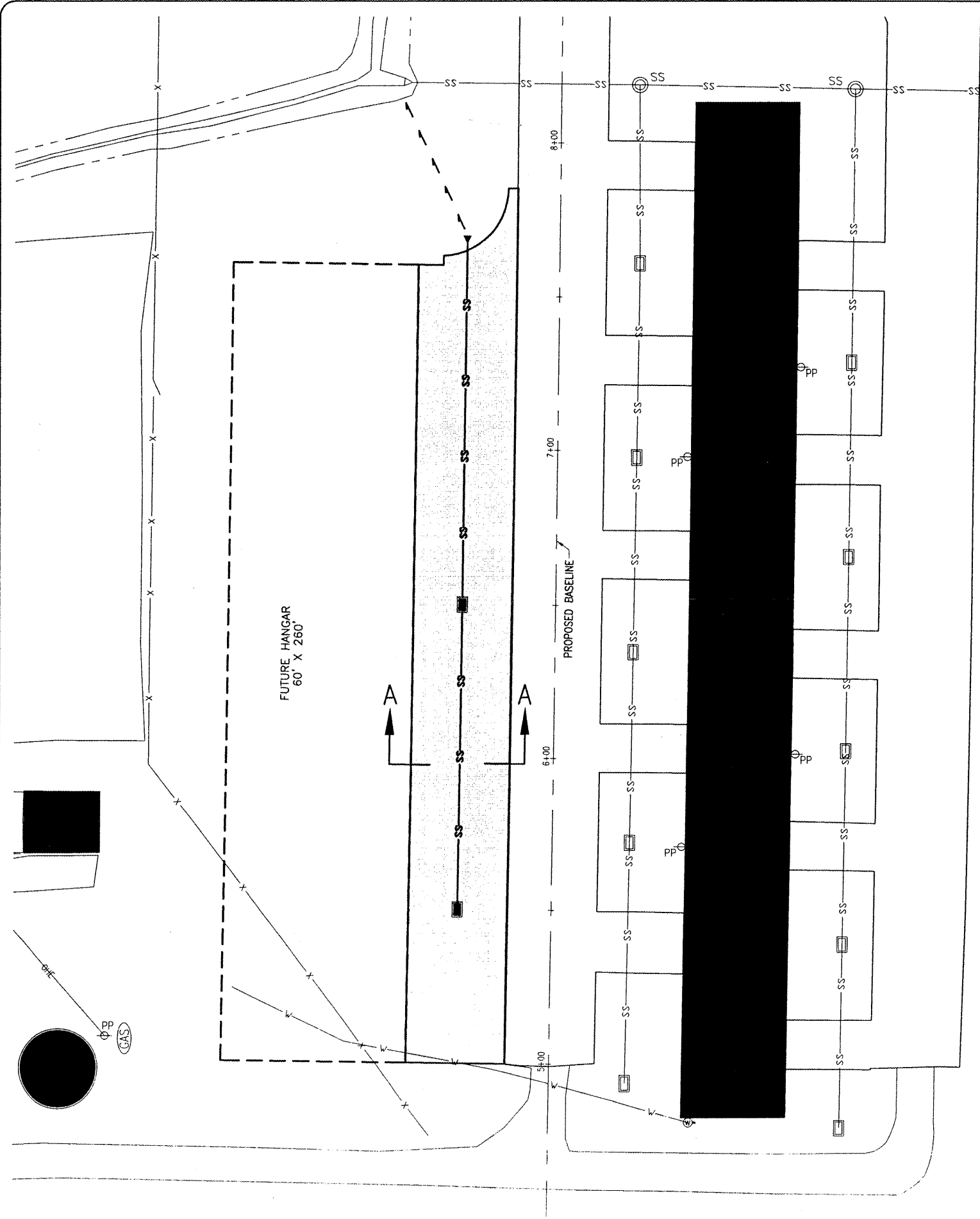
ILL. Project No. 07A0088D_0800 File Name: R-0035FL.DWG Scale: 1" = 300' Date: 12/14/07	LAYOUT DRAWN: BAK REVIEWED: CAH	12/14/07 12/14/07 01/11/08
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CONSTRUCT HANGAR  
ACCESS TAXIWAY

PROPOSED  
SAFETY  
PLAN

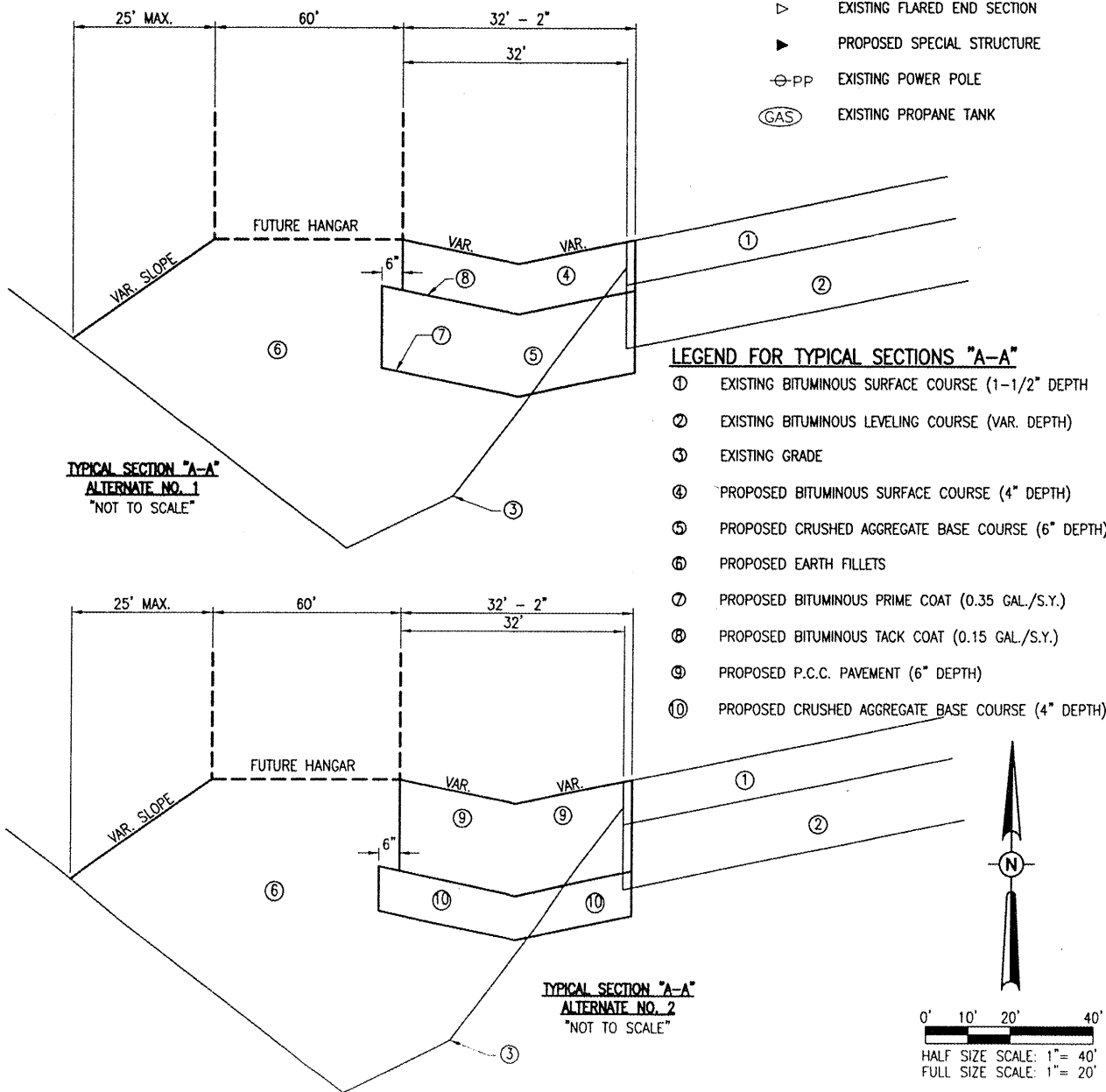
1/11/2008 3:13 PM HAGL000382  
I:\REPORTS\VA018\VA018\CAD\08088D\CAD\SHEET3.R-0035FL.DWG - SAFETY



THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH MAINS AND SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

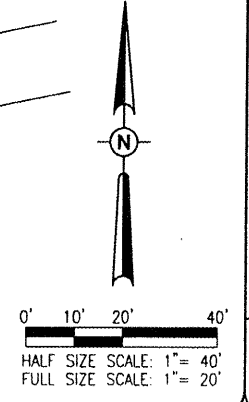
CALL J.U.L.I.E. FOR UTILITY INFORMATION AT 1-800-892-0123.  
**PAVEMENT SAWING**  
 THE WEST EDGE OF THE EXISTING HANGAR ACCESS TAXIWAY WILL BE SAWED FULL DEPTH. THE PROPOSED SAWING WILL REMOVE THE ROLLED DOWN EDGE AND PROVIDE A STRAIGHT PAVEMENT EDGE TO BUTT UP AGAINST.  
 THE RESIDENT ENGINEER WILL MARK THE PROPOSED SAW LINE IN THE FIELD A DISTANCE OF 2" BACK FROM EXISTING EDGE OR AS REQUIRED.  
 ANY BITUMINOUS PAVEMENT CUT FROM THE EXISTING HANGAR ACCESS TAXIWAY WILL BE COLLECTED AND DISPOSED OF OFF THE AIRPORT SITE.

THIS ITEM OF WORK SHALL BE PAID FOR UNDER ITEM:  
 AR401655 "BITUMINOUS PAVEMENT SAWING" \_\_\_ PER L.F.



- LEGEND**
- [ ] EXISTING PAVEMENT
  - [ ] PROPOSED PAVEMENT
  - [ ] EXISTING BUILDING
  - [ ] FUTURE BUILDING
  - SS— EXISTING STORM SEWER
  - SS— PROPOSED STORM SEWER
  - X— EXISTING FENCE
  - OHE— EXISTING OVERHEAD ELECTRIC LINE
  - W— EXISTING WATER LINE (TO BE RELOCATED)
  - [ ] EXISTING DRAINAGE DITCH
  - [ ] PROPOSED DRAINAGE DITCH
  - ⊕ EXISTING WATER SPIGOT
  - [ ] EXISTING INLET
  - [ ] PROPOSED INLET
  - ⊙SS EXISTING DROP INLET
  - ▽ EXISTING FLARED END SECTION
  - ▶ PROPOSED SPECIAL STRUCTURE
  - ⊕PP EXISTING POWER POLE
  - (GAS) EXISTING PROPANE TANK

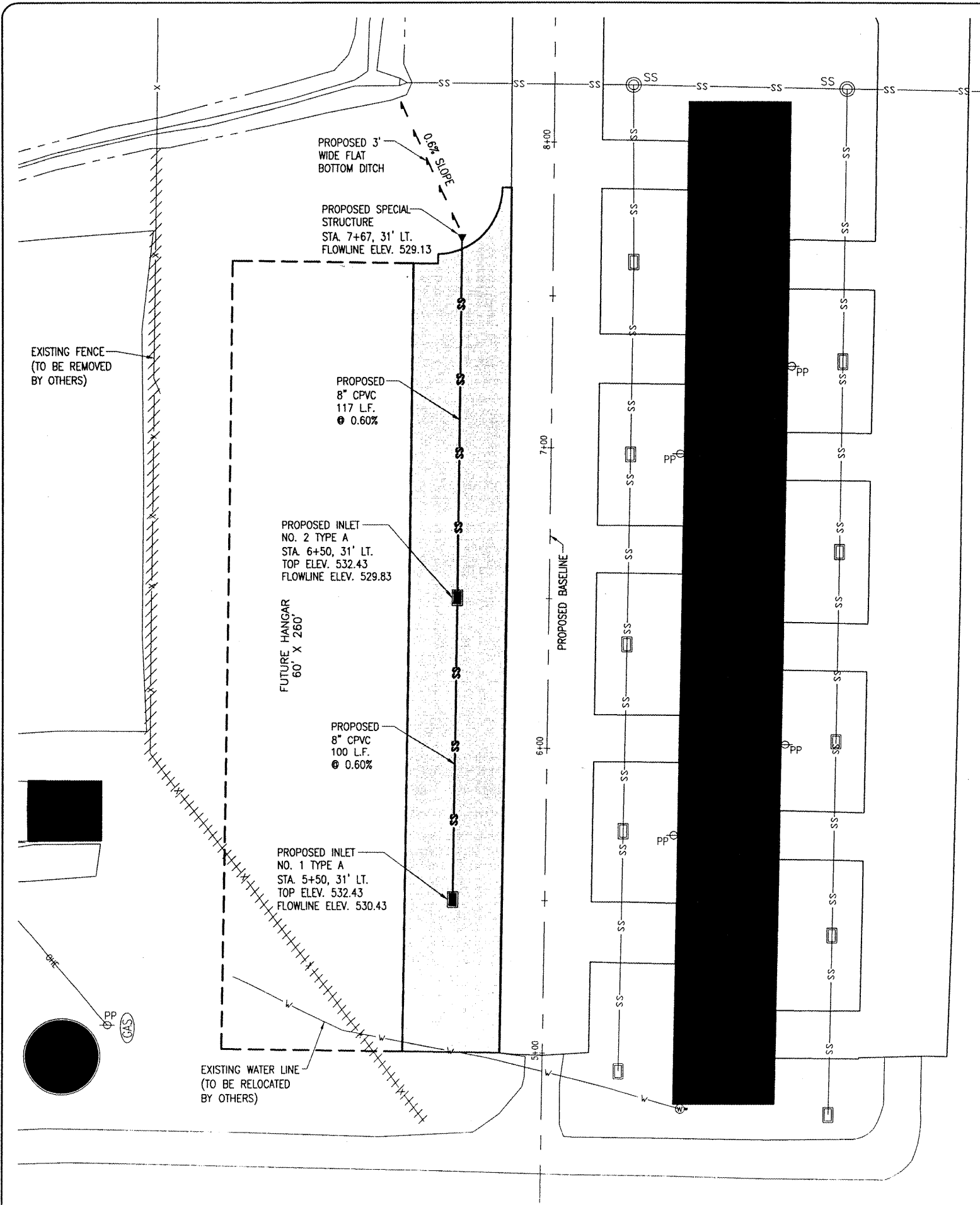
- LEGEND FOR TYPICAL SECTIONS "A-A"**
- ① EXISTING BITUMINOUS SURFACE COURSE (1-1/2" DEPTH)
  - ② EXISTING BITUMINOUS LEVELING COURSE (VAR. DEPTH)
  - ③ EXISTING GRADE
  - ④ PROPOSED BITUMINOUS SURFACE COURSE (4" DEPTH)
  - ⑤ PROPOSED CRUSHED AGGREGATE BASE COURSE (6" DEPTH)
  - ⑥ PROPOSED EARTH FILLETS
  - ⑦ PROPOSED BITUMINOUS PRIME COAT (0.35 GAL./S.Y.)
  - ⑧ PROPOSED BITUMINOUS TACK COAT (0.15 GAL./S.Y.)
  - ⑨ PROPOSED P.C.C. PAVEMENT (6" DEPTH)
  - ⑩ PROPOSED CRUSHED AGGREGATE BASE COURSE (4" DEPTH)



VA018

DATE		REVISION		BY										
<p><b>VANDALIA MUNICIPAL AIRPORT</b>                  VANDALIA, ILLINOIS</p>														
<p>IL PROJ.: VA-3724      A.I.P. PROJ.: 3-17-0102-B10</p>														
<p>IS&amp;E Project No. 07A0088D_0800                  Plan No. R-12.1CON.DWG                  Scale 1" = 20'                  Date 12/18/07</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>LAYOUT</td> <td>BAK</td> <td>12/18/07</td> </tr> <tr> <td>DRAWN</td> <td>BAK</td> <td>12/18/07</td> </tr> <tr> <td>REVIEWED</td> <td>CAH</td> <td>01/11/08</td> </tr> </table>						LAYOUT	BAK	12/18/07	DRAWN	BAK	12/18/07	REVIEWED	CAH	01/11/08
LAYOUT	BAK	12/18/07												
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<p><b>HANSON</b>                  Hanson Professional Services Inc.                  825 S. Springfield, Illinois 62703-2886                  Offices Nationwide</p>														
<p><b>CONSTRUCT HANGAR ACCESS TAXIWAY</b>                  PROPOSED CONSTRUCTION PLAN</p>														
<p><b>4</b></p> <p style="font-size: small;">4 of 15 sheets</p>														

JUN 26, 2008 1:46 PM RINKED0461  
 I:\AIRPORTS\VANDALIA\07A0088\CAD\SHEETS\R-131DRN.DWG - DRAINAGE



THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH MAINS AND SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

CALL J.U.L.I.E. FOR UTILITY INFORMATION AT 1-800-892-0123.

**FENCE REMOVAL**

THE EXISTING FENCE WILL BE REMOVED BY THE PARK DISTRICT PERSONNEL PRIOR TO THE START OF THE PROJECT.

**WATER LINE RELOCATION**

THE EXISTING WATER LINE WILL BE RELOCATED BY THE PARK DISTRICT PERSONNEL PRIOR TO THE START OF THE PROJECT.

**DRAINAGE NOTES**

PROPOSED INLETS 1 AND 2 WILL BE CONSTRUCTED IN ACCORDANCE TO THE DETAIL SHOWN ON SHEET NO. 8. THEY WILL BE CONSTRUCTED USING A NEENAH R-3475-A, DEETER 2425-E OR EQUAL GRATE AT THE LOCATIONS SHOWN ON THIS SHEET.

THE PROPOSED PIPE WILL BE 8" CORRUGATED POLY VINYL CHLORIDE WITH A SMOOTH INTERIOR. THE PROPOSED PIPE WILL BE CONNECTED WITH FITTINGS AS RECOMMENDED BY THE PIPE MANUFACTURER.

THE PART OF THE PIPE THAT IS UNDER PAVEMENT WILL BE BACKFILLED WITH IDOT CA-14 OR IDOT CA-16 UP TO THE PROPOSED SUBGRADE. THE PART OF THE PIPE THAT IS NOT UNDER THE PAVEMENT WILL BE BACKFILLED HALF WAY UP THE PIPE WITH IDOT CA-14 OR IDOT CA-16 AND UNCLASSIFIED EXCAVATION THE REST OF THE WAY.

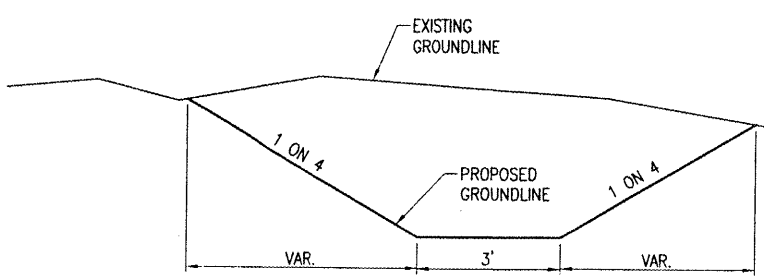
THE PROPOSED PIPE WILL BE PAID FOR UNDER:  
 AR701008 8" PVC STORM SEWER \_\_\_\_\_ PER L.F.

THE PROPOSED INLETS WILL BE PAID FOR UNDER:  
 AR751411 INLET-TYPE A \_\_\_\_\_ PER EACH

THE PROPOSED SPECIAL STRUCTURE WILL BE PAID FOR UNDER:  
 AR752850 SPECIAL STRUCTURE \_\_\_\_\_ PER EACH

**LEGEND**

- [ ] EXISTING PAVEMENT
- [ ] PROPOSED PAVEMENT
- [ ] EXISTING BUILDING
- [ ] FUTURE BUILDING
- SS EXISTING STORM SEWER
- SS PROPOSED STORM SEWER
- X EXISTING FENCE
- //// EXISTING FENCE (TO BE REMOVED)
- OHE EXISTING OVERHEAD ELECTRIC LINE
- W EXISTING WATER LINE (TO BE RELOCATED)
- EXISTING DRAINAGE DITCH
- - - PROPOSED DRAINAGE DITCH
- ⊕ EXISTING WATER SPIGOT
- EXISTING INLET
- PROPOSED INLET
- ⊙ SS EXISTING DROP INLET
- ▽ EXISTING FLARED END SECTION
- ▶ PROPOSED SPECIAL STRUCTURE
- ⊕ PP EXISTING POWER POLE
- (GAS) EXISTING PROPANE TANK



0' 10' 20' 40'

HALF SIZE SCALE: 1" = 40'  
 FULL SIZE SCALE: 1" = 20'

VA018

DATE	REVISION	BY

VANDALIA MUNICIPAL AIRPORT  
 VANDALIA, ILLINOIS

ILL. PROJ.: VA-3724 A.I.P. PROJ.: J-17-0102-810

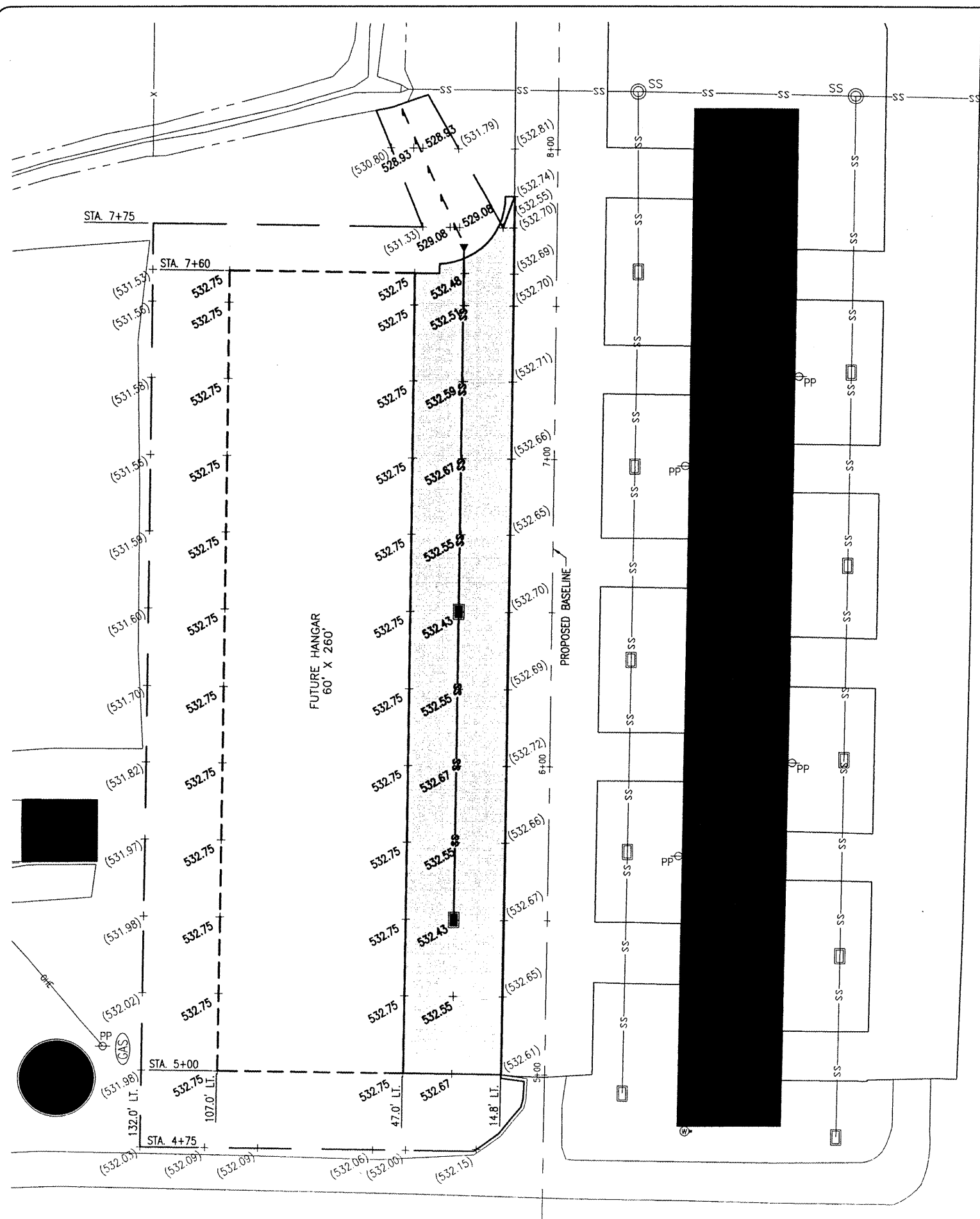
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		REVIEWED CAH 01/11/08

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CONSTRUCT HANGAR  
 ACCESS TAXIWAY

PROPOSED  
 DRAINAGE  
 PLAN

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 C:\APRPORTS\VA018\07A0088\CAD\SHEETS\R-19\1STK.DWG - STAKING



THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH MAINS AND SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

CALL J.U.L.I.E. FOR UTILITY INFORMATION AT 1-800-892-0123.

**SEEDING DATA**

THE GRADING LIMITS ARE SHOWN ON THE STAKING PLAN SHEETS BY A HEAVY DASHED LINE (---). ALL AREAS WITHIN THESE LIMITS, EXCEPT THE PROPOSED PAVEMENT, SHALL BE LIMED, FERTILIZED AND SEEDED IN ACCORDANCE WITH ITEM 901 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS DATED JULY 1, 2004.

**MULCHING DATA**

ALL EARTHEN AREAS WITHIN THE GRADING LIMITS WILL BE MULCHED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS AT THE RATE OF 2 TONS PER ACRE (STRAW) AT THE RATE OF 1.25 TONS PER ACRE (HYDROMULCH). AREA TO BE MULCHED \_\_\_\_\_ PER ACRES DATE MULCHING COMPLETED \_\_\_\_\_

**152-UNCLASSIFIED AND BORROW EXCAVATION NOTES**

THE PROPOSED UNCLASSIFIED AND BORROW EXCAVATION SHALL BE PLACED IN ACCORDANCE WITH ITEM 152 "EXCAVATION AND EMBANKMENT" AS STATED ON PAGE 25 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

ALL BORROW MATERIAL WILL BE OBTAINED FROM AN APPROVED OFF-SITE BORROW AREA.

THE EARTH SUBGRADE WILL BE FIRST ROUGH CUT TO THE SPECIFIED ELEVATIONS. THE ELEVATIONS SHOWN ON THE STAKING PLAN ARE FOR FINISHED PAVEMENT. SUBGRADE ELEVATIONS WILL BE THE GRADE SHOWN MINUS THE PAVEMENT THICKNESS (INCLUDING BASE).

MATERIAL TO BE USED FOR SHOULDERING WILL BE STORED OUTSIDE OF THE PROPOSED PAVEMENT AREA AND WITHIN THE GRADING LIMITS.

THE MATERIAL TO BE USED FOR THE SHOULDERING WILL BE TOPSOIL OBTAINED FROM THE ON SITE UNCLASSIFIED OR BORROW EXCAVATION.

THE COMPACTION CONTROL TESTS TO BE USED FOR ALL EMBANKMENTS AND EXCAVATION SHALL BE FAA COMPACTION CONTROL TEST T-611 FOR AIRCRAFT WEIGHING LESS THAN 60,000 POUNDS.

THE PROPOSED SHOULDER MATERIAL WILL ONLY REQUIRE "LIGHT COMPACTION" TO THE SATISFACTION OF THE RESIDENT ENGINEER.

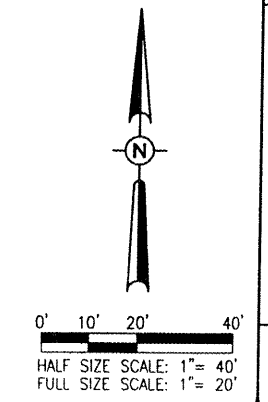
ALL EARTHWORK WILL BE CLASSIFIED AS EITHER "UNCLASSIFIED EXCAVATION" OR "BORROW EXCAVATION".

THE PROPOSED UNCLASSIFIED EXCAVATION WILL BE PAID FOR UNDER ITEM:

AR152410 UNCLASSIFIED EXCAVATION \_\_\_\_\_ PER C.Y.

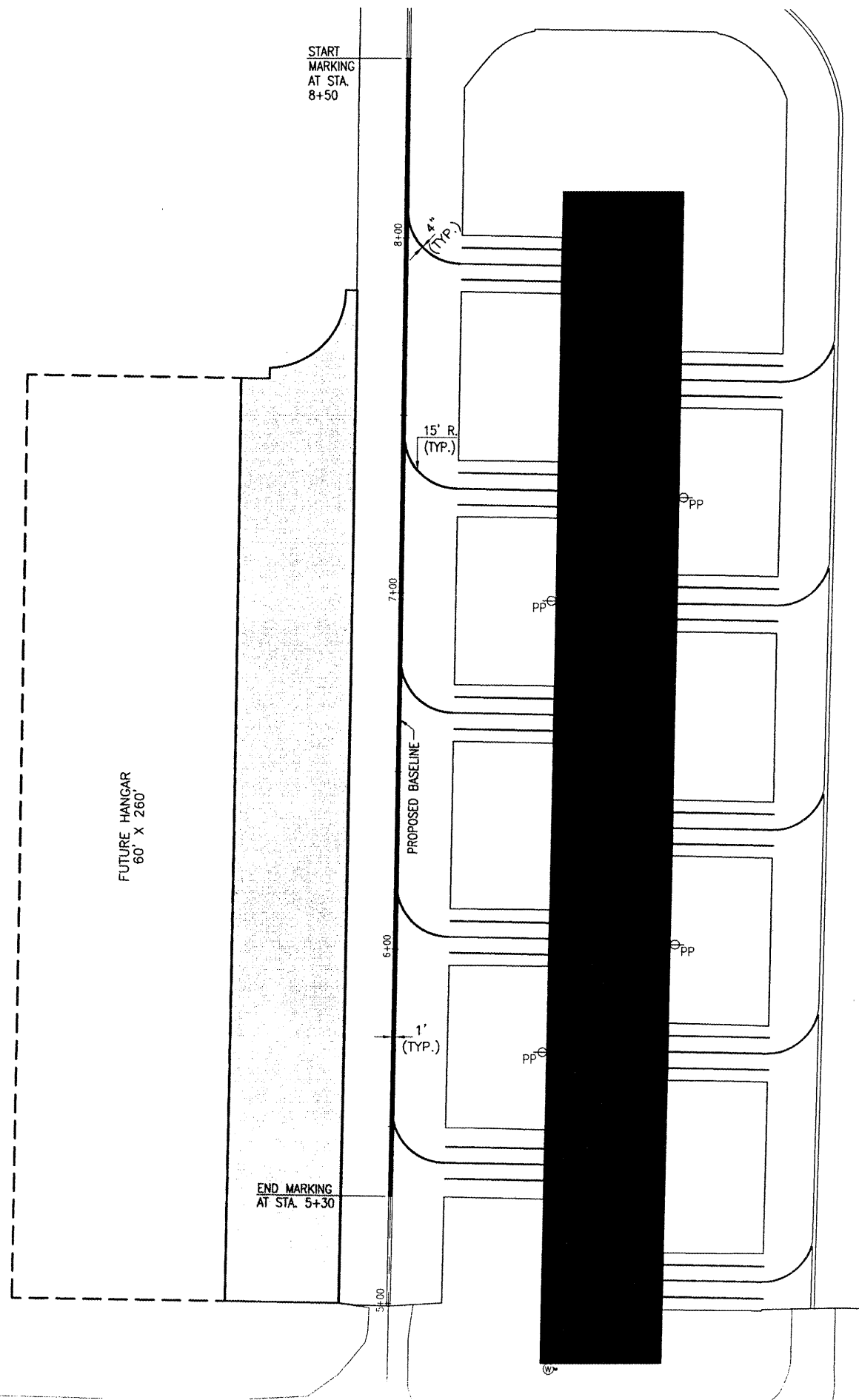
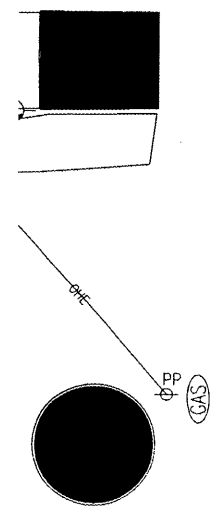
AR153440 BORROW EXCAVATION \_\_\_\_\_ PER C.Y.

- LEGEND**
- [ ] EXISTING PAVEMENT
  - [ ] PROPOSED PAVEMENT
  - [ ] EXISTING BUILDING
  - [ ] FUTURE BUILDING
  - SS EXISTING STORM SEWER
  - SS PROPOSED STORM SEWER
  - X EXISTING FENCE
  - OHE EXISTING OVERHEAD ELECTRIC LINE
  - [ ] EXISTING DRAINAGE DITCH
  - W EXISTING WATER SPIGOT
  - [ ] EXISTING INLET
  - SS EXISTING DROP INLET
  - V EXISTING FLARED END SECTION
  - PP EXISTING POWER POLE
  - GAS EXISTING PROPANE TANK
  - [ ] PROPOSED INLET
  - [ ] PROPOSED SPECIAL STRUCTURE
  - EXISTING GRADE
  - PROPOSED GRADE
  - PROPOSED GRADING AND SEEDING LIMITS



VA018

DATE	REVISION	BY	
<p><b>VANDALIA MUNICIPAL AIRPORT</b> VANDALIA, ILLINOIS</p>			
<p>IL. PROJ.: VA-3724 A.I.P. PROJ.: J-17-0102-B10</p>			
<p>HEI Project No. 07A0088D_0800          Filename: R-19\1STK.DWG          Scale: 1" = 20'          Date: 12/18/07</p>		<p>LAYOUT 12/18/07          DRAWN BAK 12/18/07          REVIEWED CAH 01/11/08</p>	<p><b>HANSON</b>          Hanson Professional Services Inc.          1525 So. State St.          Springfield, Illinois 62703-2886          Offices Nationwide</p>
<p><b>CONSTRUCT HANGAR ACCESS TAXWAY</b></p>		<p>PROPOSED STAKING PLAN</p>	
<p><b>6</b></p>			



**620-PAVEMENT MARKING-WATERBORNE NOTES**

THE PAVEMENT MARKING-WATERBORNE (620) SHALL BE PLACED IN ACCORDANCE WITH ITEM 620 "PAVEMENT MARKING" AS STATED ON PAGE 77 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THIS ITEM SHALL CONSIST OF TAXIWAY CENTERLINE MARKING IN ACCORDANCE WITH THESE SPECIFICATIONS AND AT THE LOCATIONS SHOWN ON THE CONSTRUCTION PLANS. ALL TAXIWAY CENTERLINE MARKING WILL BE YELLOW IN COLOR. THE PROPOSED PAVEMENT MARKING WILL BE APPLIED IN TWO APPLICATIONS.

ANY MATERIAL DELIVERED THAT FAILS TO MEET THE SPECIFICATIONS SHALL BE DISPOSED OF BY THE VENDOR AND IMMEDIATELY REPLACED WITH ACCEPTABLE MATERIAL ENTIRELY AT THE VENDOR'S EXPENSE, INCLUDING HANDLING AND TRANSPORTATION CHARGES.

ALL CURING COMPOUND WILL BE CLEANED FROM CONCRETE PAVEMENT PRIOR TO APPLYING PAINT. NO EXCEPTIONS.

ALL PROPOSED MARKING WILL BE COMPLETED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION PLANS.

GLASS BEADS SHALL BE REQUIRED ONLY ON THE SECOND APPLICATION.

CUT-OFF SHEETS WILL BE REQUIRED TO INSURE STRAIGHT EDGES.

THE PROPOSED MARKING WILL BE PAID FOR UNDER ITEM:  
 AR620520 PAVEMENT MARKING-WATERBORNE \_\_\_ PER S.F.

**LEGEND**

- EXISTING PAVEMENT
- PROPOSED PAVEMENT
- EXISTING BUILDING
- FUTURE BUILDING
- EXISTING FENCE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING WATER SPIGOT
- EXISTING POWER POLE
- EXISTING PROPANE TANK
- EXISTING MARKING
- PROPOSED MARKING

VA018

DATE	REVISION	BY

VANDALIA MUNICIPAL AIRPORT  
 VANDALIA, ILLINOIS

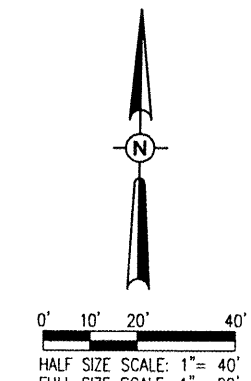
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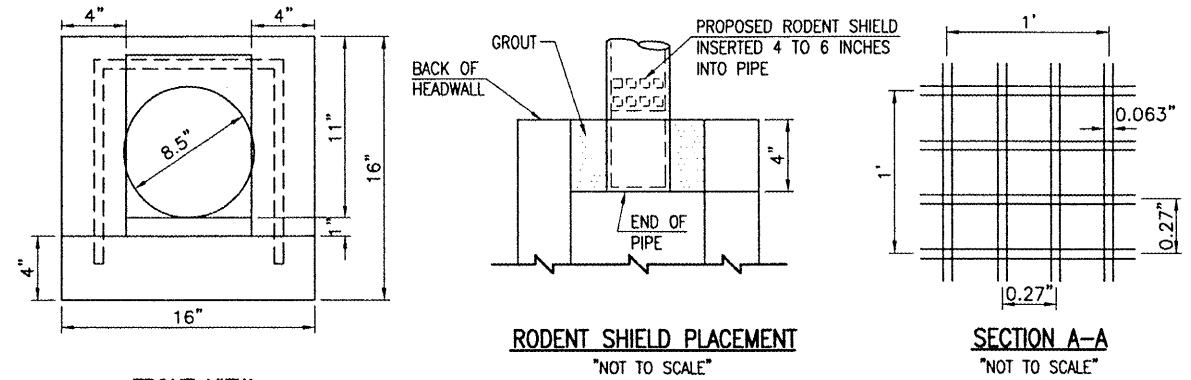
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CONSTRUCT HANGAR  
 ACCESS TAXIWAY

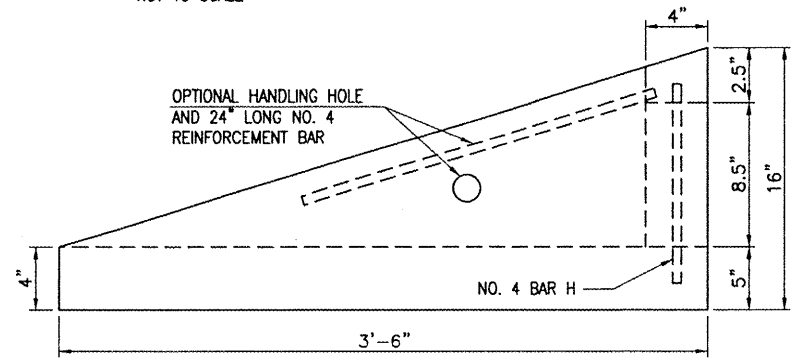
PROPOSED  
 MARKING  
 PLAN



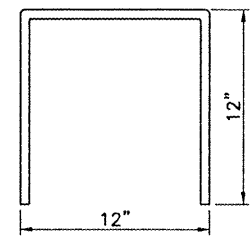


**RODENT SHIELD PLACEMENT**  
"NOT TO SCALE"

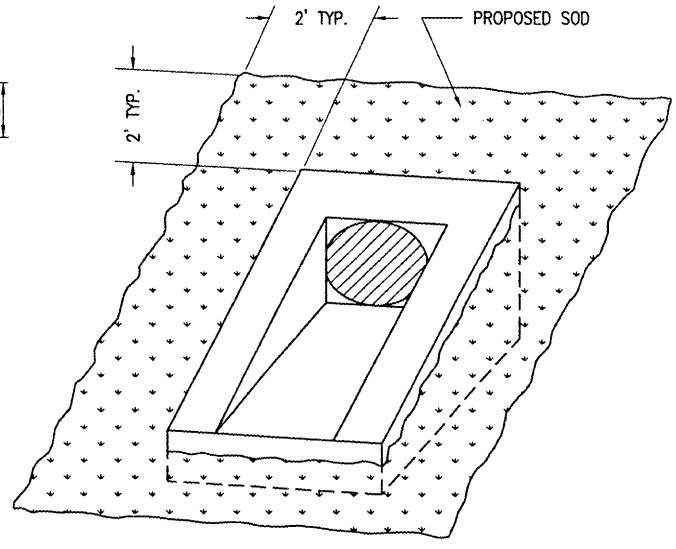
**SECTION A-A**  
"NOT TO SCALE"



**SIDE VIEW**  
"NOT TO SCALE"



**BAR H**  
"NOT TO SCALE"



**PROPOSED SOD LOCATION**  
"NOT TO SCALE"

**603-BITUMINOUS TACK COAT NOTES:**

THE BITUMINOUS TACK COAT (603) SHALL BE PLACED IN ACCORDANCE WITH ITEM AR603 "BITUMINOUS TACK COAT" AS STATED ON PAGE 62 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THE PROPOSED BITUMINOUS TACK COAT SHALL BE PLACED ON THE PROPOSED BITUMINOUS PAVEMENT PRIOR TO THE PLACEMENT OF THE NEXT LIFT OF PROPOSED BITUMINOUS SURFACE COURSE. THE PROPOSED BITUMINOUS PAVEMENT SHALL HAVE A TACK COAT OF BITUMINOUS MATERIAL APPLIED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.

THE PROPOSED BITUMINOUS TACK COAT WILL BE PAID FOR UNDER ITEM:  
AR603510 BITUMINOUS TACK COAT \_\_\_\_\_ PER GAL.

**AR401611 BITUMINOUS SURFACE COURSE - METHOD 1**

THE BITUMINOUS SURFACE COURSE (401) SHALL BE PLACED IN ACCORDANCE WITH ITEM AR401001 "BITUMINOUS SURFACE COURSE-METHOD 1" AS STATED ON PAGE 245 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THIS ITEM OF WORK SHALL CONSIST OF CONSTRUCTING 2 LIFTS OF BITUMINOUS SURFACE COURSE (FIRST LIFT WILL BE 2-1/2" AND SECOND LIFT WILL BE 1-1/2") ON THE EXISTING BITUMINOUS PAVEMENT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE QUALITY CONTROL IN THE PRODUCTION AND CONSTRUCTION OF THE BITUMINOUS SURFACE COURSE.

PRIOR TO STARTING THE AGGREGATE BITUMINOUS SURFACE COURSE OPERATION, THE CONTRACTOR SHALL SUBMIT TO THE RESIDENT ENGINEER A DETAILED OUTLINE SHOWING AREAS AND ORDER OF PAVING WIDTHS OF PAVING LANES, AND REQUIRED OFFSETS FOR ELECTRONIC GRADE.

THE PROPOSED BITUMINOUS SURFACE COURSE WILL BE DESIGNED TO A MARSHALL DESIGN OF (LESS) THAN 60,000 POUNDS.

401-4.9 ADD THE FOLLOWING TO THIS SECTION:

WHEN HAND SPREADING IS PERMITTED, THE MIXTURE WILL BE DISTRIBUTED AND SPREAD USING HAND TOOLS. WHEN THE WORK IS COMPLETED, THE LAYER WILL HAVE THE REQUIRED THICKNESS AND CONFORM TO THE GRADE AND SURFACE CONTOUR SHOWN ON THE PLANS.

401-4.12 ADD THE FOLLOWING TO THIS PARAGRAPH:

ALL PAVEMENT EDGES (LONGITUDINAL, RADIUS, AND PAVEMENT ENDS) MUST BE LEFT IN PROPER ALIGNMENT AS SHOWN ON THE PLANS. THIS MAY BE ACCOMPLISHED BY THE TRIMMING METHOD OUTLINED ABOVE OR AT THE CONTRACTOR'S OPTION BY SAWING AFTER THE PAVING HAS BEEN COMPLETED. NO ADDITIONAL COMPENSATION WILL BE MADE IF THE SAWING METHOD IS USED.

**AR209-CRUSHED AGGREGATE BASE COURSE NOTES**

THE CRUSHED AGGREGATE BASE COURSE (209) SHALL BE PLACED IN ACCORDANCE WITH ITEM 209 "CRUSHED AGGREGATE BASE COURSE" AS STATED ON PAGE 45 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THE CRUSHED AGGREGATE BASE COURSE MATERIAL (CA-6) WILL BE USED TO CONSTRUCT A BASE COURSE FOR THE PROPOSED BITUMINOUS SURFACE COURSE (401). THE CRUSHED AGGREGATE BASE COURSE MATERIAL WILL BE 6" IN DEPTH AND COMPACTED TO NOT LESS THAN 95 PERCENT DENSITY.

THE PROPOSED AGGREGATE FOR THE BASE COURSE MATERIAL SHALL MEET THE REQUIREMENTS OF GRADATION "B" IN TABLE 1 OF THE SUPPLEMENTAL SPECIFICATIONS.

209-3.2 EQUIPMENT. ADD THE FOLLOWING PARAGRAPHS TO THIS SECTION:

"PROVISIONS SHALL BE MADE BY THE CONTRACTOR FOR FURNISHING WATER AT THE PLANT AND AT THE SITE OF THE WORK BY EQUIPMENT OF AMPLE CAPACITY AND OF SUCH DESIGN AS TO ASSURE UNIFORM MIXING AND APPLICATION."

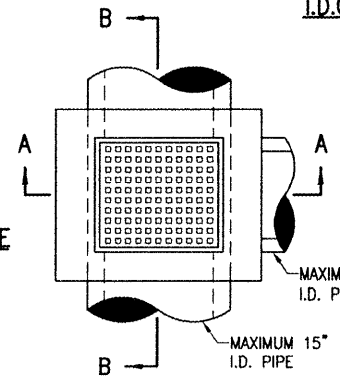
THE CONTRACTOR WILL PROVIDE THE RESIDENT ENGINEER A PROCTOR CURVE SHOWING OPTIMUM DENSITY AND MOISTURE FOR THE SUPPLIED BASE COURSE MATERIAL.

THE COMPACTION CONTROL TEST TO BE USED SHALL BE FAA COMPACTION CONTROL TEST T-611 FOR AIRCRAFT WEIGHING LESS THAN 60,000 LBS.

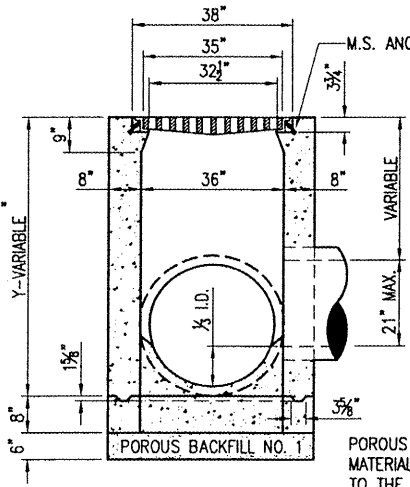
209-4.1. DELETE THE FIFTH SENTENCE AND REPLACE IT WITH THE FOLLOWING:

"IF AT THE TIME THE AGGREGATES ARE WEIGHED THEY CONTAIN MORE THAN SIX (6) PERCENT OF ABSORBED AND FREE MOISTURE BY WEIGHT, A DEDUCTION FOR THE MOISTURE IN EXCESS OF THIS AMOUNT SHALL BE MADE IN DETERMINING THE PAY QUANTITY."

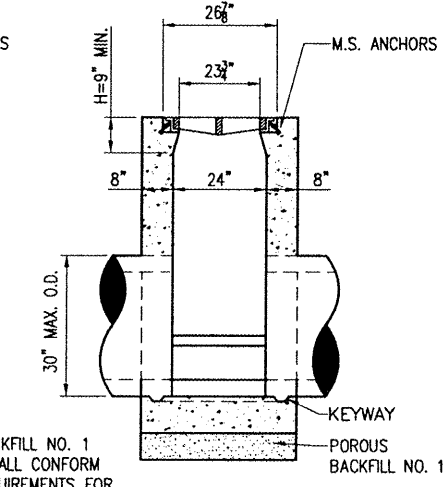
**SPECIAL STRUCTURE FOR UNDERDRAIN DETAIL**  
**I.D.O.T. STANDARD 2362-4**



"NOT TO SCALE"



**SECTION A-A**



**SECTION B-B**

**REINFORCING STEEL BAR TYPE**

REINFORCING BARS SCHEDULE					
TYPE	QUANTITY PER INLET	DIMENSIONS		SIZE	APPROX. WT. OF BARS IN INLET
		A	B		
A	2	3'-4"	2'-4"	#5	16.7

**INLET NOTES**

INLET TO BE CONSTRUCTED OF STRUCTURAL P.C. CONCRETE. THE CONTRACT UNIT PRICE PER INLET SHALL INCLUDE THE FRAME, GRATE AND STEPS IN PLACE AND COMPLETE PER UNIT.

1/2" CHAMFER TO BE USED ON ALL EXPOSED CORNERS OF INLETS. BARS TO BE INSTALLED 2" FROM FACE OF WALLS.

THE FRAME AND GRATE SHALL BE NEENAH R-3475-A, DEETER 2425-E.

"H" SHALL BE EQUAL TO THE PROPOSED PAVEMENT THICKNESS AND NOT LESS THAN THE ATTACHED MINIMUMS. TYPE A \_\_\_\_\_ 9" MINIMUM.

INLET STEPS SHALL BE NEENAH R-1980-1. 12" TO 15" C.C. STEPS TO BE INSTALLED WHEN Y IS GREATER THAN 5' COST. THE COST OF THE STEPS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR EACH INLET.

**602-BITUMINOUS PRIME COAT NOTES:**

THE BITUMINOUS PRIME COAT (602) SHALL BE PLACED IN ACCORDANCE WITH ITEM AR602 "BITUMINOUS PRIME COAT" AS STATED ON PAGE 58 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THE PROPOSED BITUMINOUS PRIME COAT SHALL BE PLACED ON THE PROPOSED AGGREGATE BASE COURSE PRIOR TO THE PLACEMENT OF THE FIRST LIFT OF PROPOSED BITUMINOUS SURFACE COURSE. THE PROPOSED AGGREGATE BASE COURSE SHALL HAVE A PRIME COAT OF BITUMINOUS MATERIAL APPLIED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.

THE PROPOSED BITUMINOUS PRIME COAT WILL BE PAID FOR UNDER ITEM:  
AR602510 BITUMINOUS PRIME COAT \_\_\_\_\_ PER GAL.

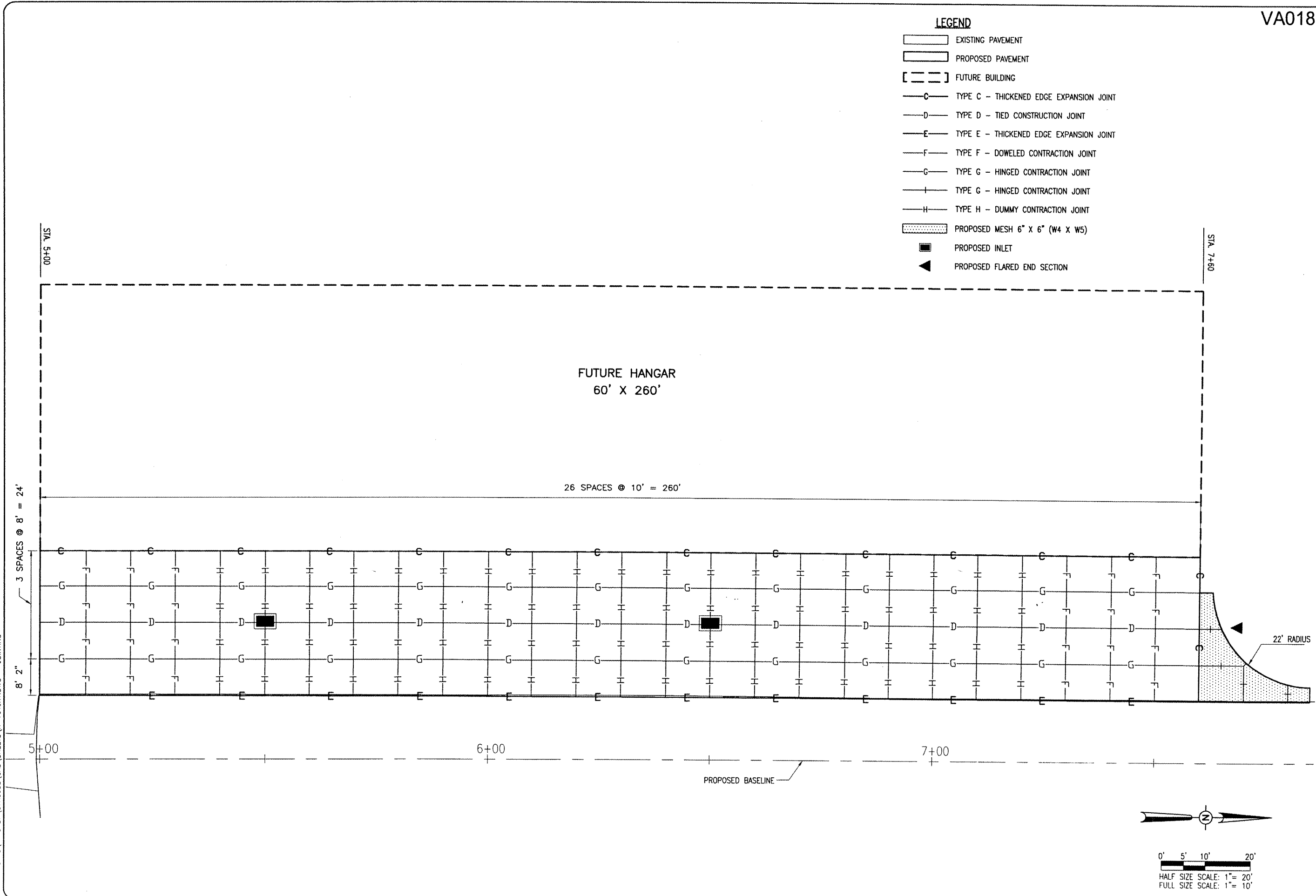
BY	
REVISION	
DATE	
<p><b>VANDALIA MUNICIPAL AIRPORT</b> <b>VANDALIA, ILLINOIS</b></p>	
<p>A.I.P. PROJ.: 3-17-0102-810</p>	
<p>ILL. Project No. 07A0088D_0800</p> <p>Element R-122CON.DWG</p> <p>Scale NOT TO SCALE</p> <p>Date 12/17/07</p>	<p>LAYOUT BAK 12/17/07</p> <p>DRAWN BAK 12/17/07</p> <p>REVIEWED CAH 01/11/08</p>
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<p><b>CONSTRUCT HANGAR ACCESS TAXIWAY</b></p> <p>PROPOSED NOTES AND DETAILS</p>	
<p><b>8</b></p> <p>8 of 15 sheets</p>	

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\\APPORTS\VANDALIA\07A0088D\CAD\SHEETS\R-16\JNT.DWG - JOINTING



**LEGEND**

- EXISTING PAVEMENT
- PROPOSED PAVEMENT
- FUTURE BUILDING
- TYPE C - THICKENED EDGE EXPANSION JOINT
- TYPE D - TIED CONSTRUCTION JOINT
- TYPE E - THICKENED EDGE EXPANSION JOINT
- TYPE F - DOWELED CONTRACTION JOINT
- TYPE G - HINGED CONTRACTION JOINT
- TYPE H - DUMMY CONTRACTION JOINT
- PROPOSED MESH 6" X 6" (W4 X W5)
- PROPOSED INLET
- PROPOSED FLARED END SECTION

VA018

DATE	REVISION	BY

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VANDALIA, ILLINOIS

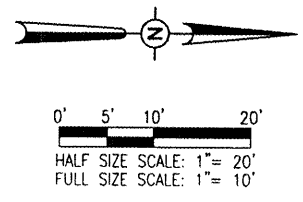
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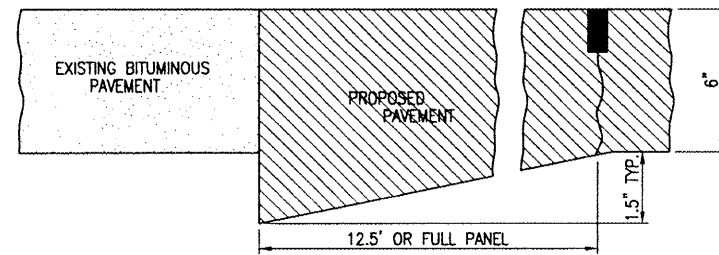
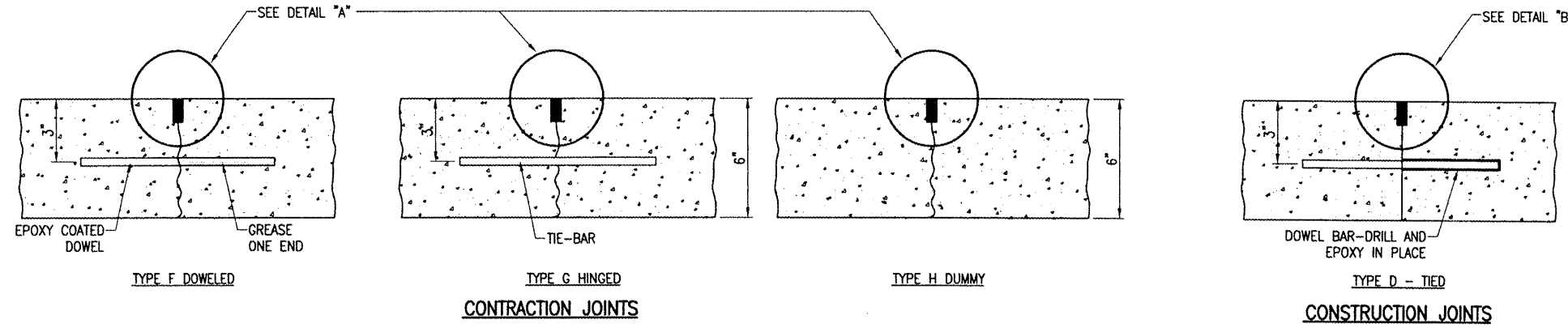
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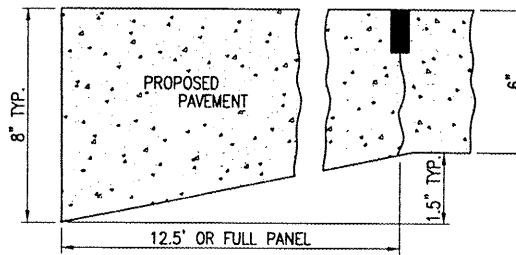
CONSTRUCT HANGAR  
ACCESS TAXIWAY

PROPOSED  
JOINTING  
PLAN



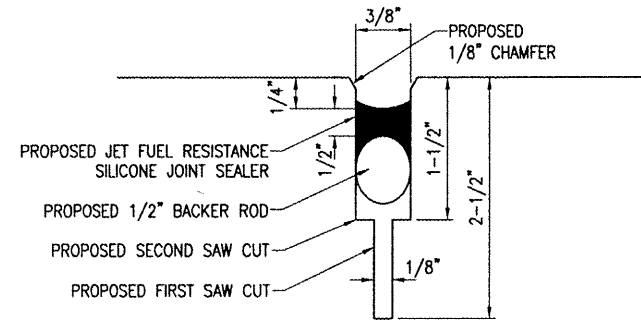


TYPE-E THICKENED EDGE EXPANSION JOINT

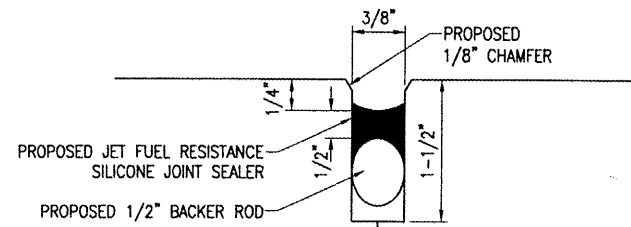


TYPE-C THICKENED EDGE EXPANSION JOINT

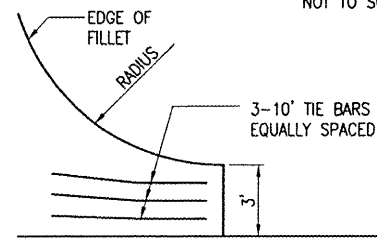
EXPANSION JOINTS



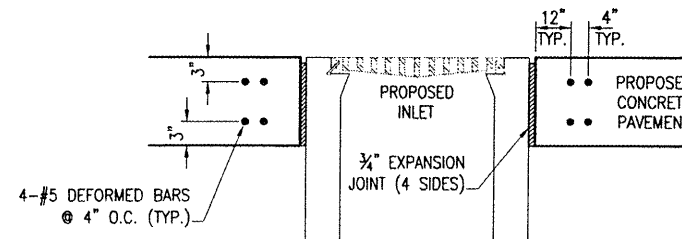
DETAIL "A"  
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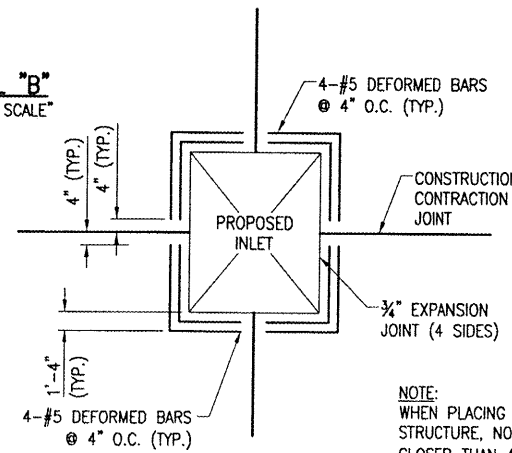
DETAIL "B"  
"NOT TO SCALE"



FILLET DETAIL  
"NOT TO SCALE"



PROFILE VIEW



NOTE:  
WHEN PLACING DEFORMED BARS AROUND STRUCTURE, NO DEFORMED BAR WILL COME CLOSER THAN 4" TO ANY JOINT.

PLAN VIEW

STRUCTURE PAVEMENT REINFORCING FOR INLET

"NOT TO SCALE"

JOINTING NOTES

ALL EXPOSED JOINT EDGES SHALL BE EDGED WITH AN APPROVED TOOL HAVING A RADIUS OF 1/4" OR STONED TO PRODUCE THE 1/8" CHAMFER.

ALL LONGITUDINAL AND TRANSVERSE CONTRACTION AND CONSTRUCTION JOINTS SHALL BE SAWED.

ALL DOWEL BARS SHALL BE SECURELY HELD IN PLACE BY MEANS OF A DOWEL BAR ASSEMBLY WHICH WILL INSURE THAT THEY WILL REMAIN PARALLEL TO THE SURFACE OF THE PAVEMENT AND TO THE CENTERLINES OF THE PAVEMENT LANES. THE DOWEL BAR ASSEMBLIES SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. DOWELS FOR THE 6" PAVEMENT SHALL BE 3/4" DIA., 18" LENGTH AND 12" SPACING.

ALL TIE-BARS SHALL BE SECURELY HELD IN PLACE BY SUPPORT PINS OR OTHER METHODS TO PREVENT SHIFTING DURING AND AFTER CONCRETE PLACEMENT. SUPPORT PINS SHALL BE OF SUFFICIENT LENGTH TO PENETRATE AT LEAST 6" INTO THE SUBGRADE.

ALL TIE-BARS SHALL BE PLACED AT A POINT NOT EXCEEDING 15" OR CLOSER THAN 6" FROM A TRANSVERSE, CONTRACTION, EXPANSION, OR CONSTRUCTION JOINT AND SPACED 30" ON CENTERS AND SHALL BE NO. 5 DEFORMED BARS, 30" IN LENGTH.

DOWELS IN TRANSVERSE, CONTRACTION, AND CONSTRUCTION JOINTS SHALL BE EPOXY COATED AND HALF THE LENGTH GREASED WITH A HEAVY GREASE.

ALLOWABLE TOLERANCES FOR GROOVE DEPTH WILL BE +1/8" FOR CONSTRUCTION JOINTS AND +1/4" FOR CONTRACTION JOINTS.

REBAR & DOWELS LOCATED IN THE CONSTRUCTION JOINTS WILL BE DRILLED AND EPOXY IN PLACE. THE EPOXY MATERIAL MUST BE APPROVED BY THE ILLINOIS DIVISION OF AERONAUTICS

THE COST OF ALL DOWEL BARS, TIE-BARS, SAWING AND SEALING SHALL BE INCLUDED IN THE COST OF THE P.C.C. PAVEMENT.

PRIOR TO PLACING ADJACENT PAVEMENT SECTIONS, THE VERTICAL EDGE SHALL BE CHECKED FOR TRUENESS IF THE FACE IS BURRED OR IRREGULAR, THE CONTRACTOR SHALL GRIND, STONE OR SAW THE FACE A MINIMUM OF 2" IN DEPTH TO PRODUCE A SMOOTH AND STRAIGHT EDGE.

WHEN CONSTRUCTING "FILL-IN" PAVEMENT LANES THE CONTRACTOR SHALL USE BELTING OR OTHER PROTECTIVE MATERIAL FOR THE PAVING MACHINE TO TRAVEL ON AND WILL ROPE THE TRANSVERSE JOINTS.

JOINT SEALANT SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS ITEM 501-2.5.

CURING COMPOUND WILL BE AS SPECIFIED IN THE SPECIFICATIONS, ITEM 501-3.17 AND SHALL BE APPROVED PRIOR TO THE PAVING OPERATION BY THE ENGINEER.

ALL NON-ALIGNED EDGES WILL BE SAWED FULL DEPTH.

DATE	REVISION	BY

VANDALIA MUNICIPAL AIRPORT  
VANDALIA, ILLINOIS

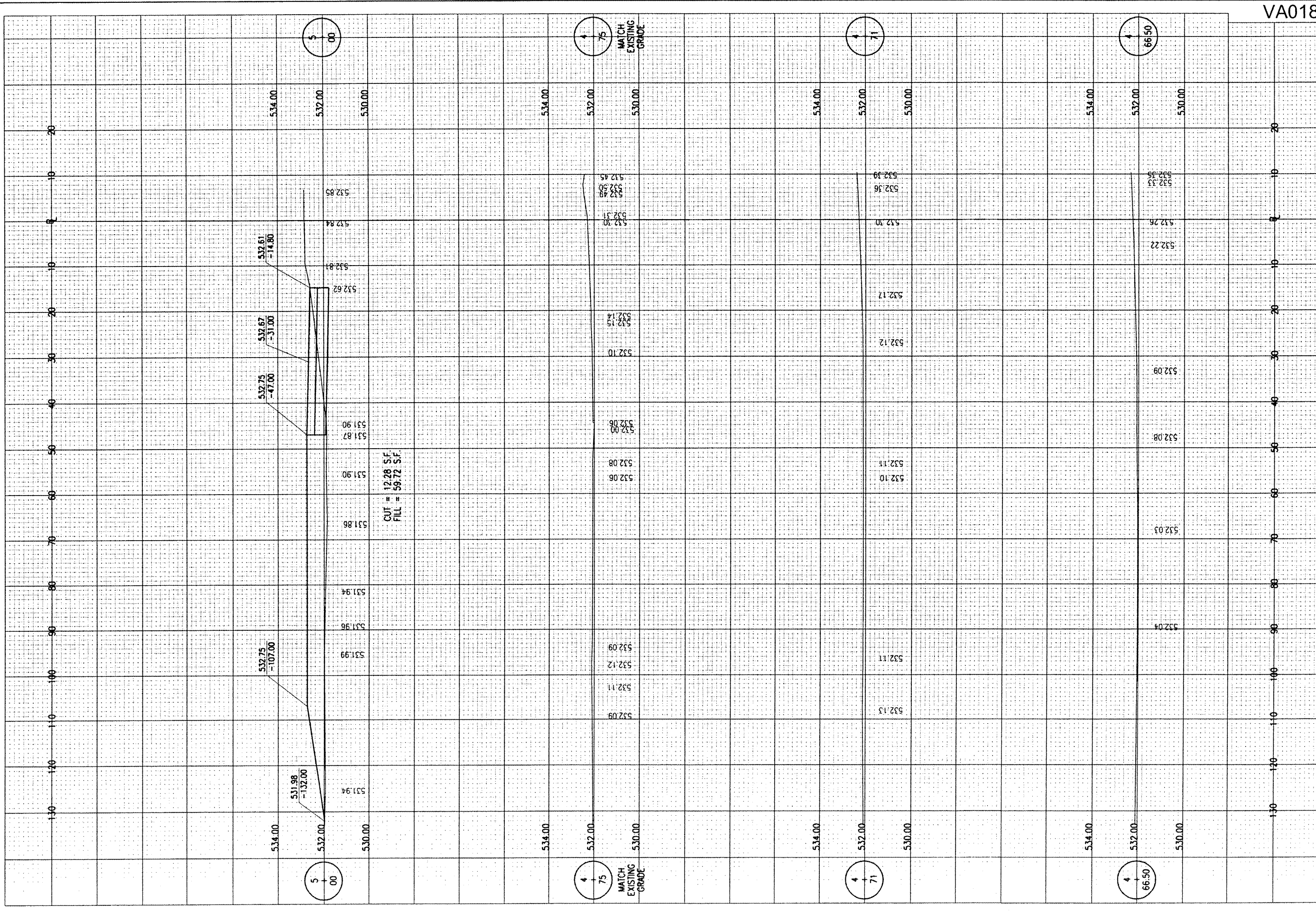
IL PROJ.: VLA-3724 A.I.P. PROJ.: 3-17-0102-810

HEL Project No. 07A00880.0800	CAH	06/24/08
Estimate R-561_JNT.DWG	CAH	06/24/08
Scale NOT TO SCALE	REVIEWED	JHW
Date 06/24/08		

**HANSON**  
Hanson Professional Services Inc.  
1525 South Sixth Street  
Springfield, Illinois 62703-2895  
Offices Nationwide

CONSTRUCT HANGAR  
ACCESS TAXIWAY

PROPOSED  
JOINTING DETAILS  
AND NOTES



VA018

DATE	REVISION	BY

VANDALIA MUNICIPAL AIRPORT  
 VANDALIA, ILLINOIS

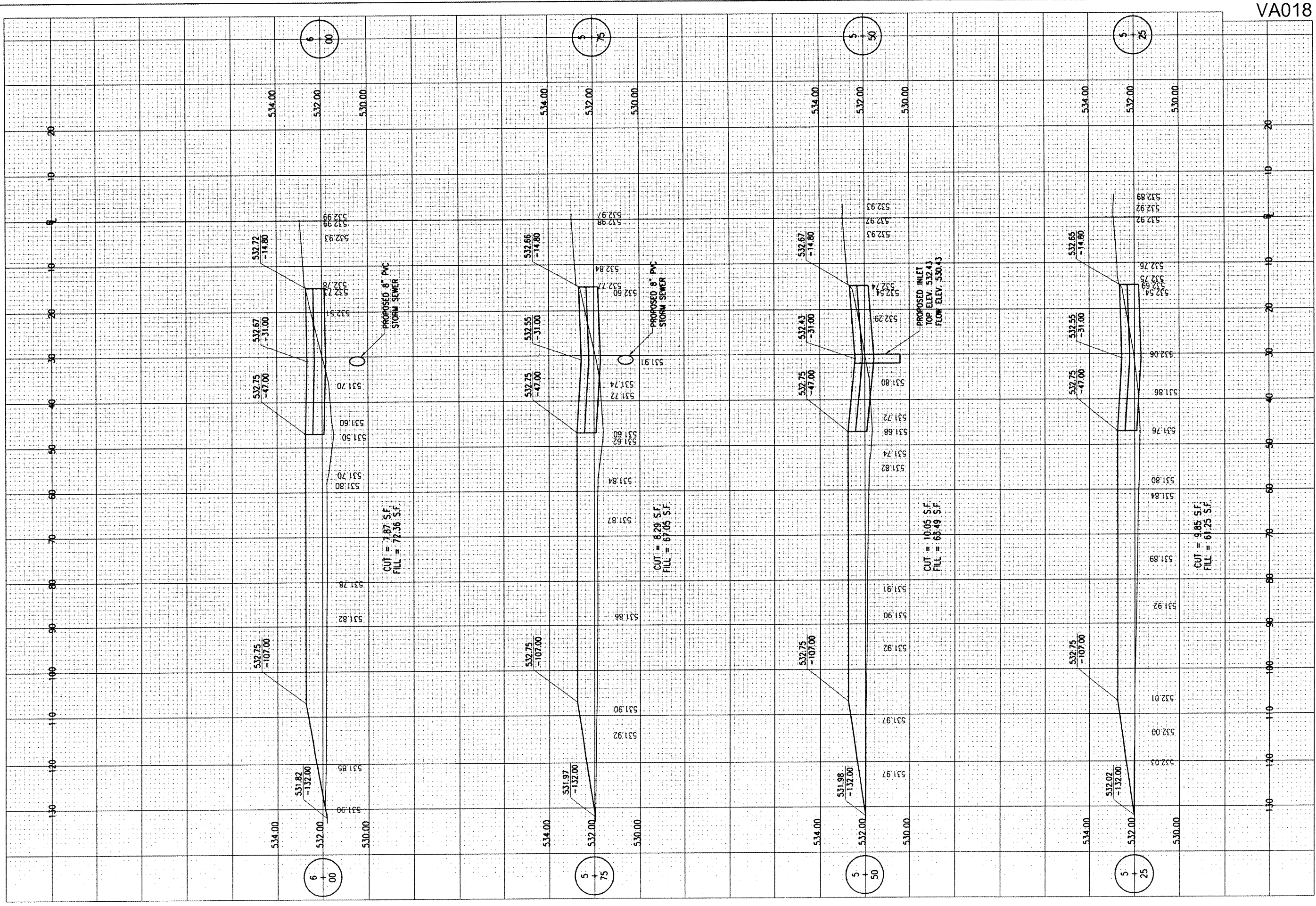
IL. PROJ.: VLA-3724 A.I.P. PROJ.: 3-17-0102-B10

ILL. Project No. 07A00880-0800 Filename: R-301XS.DWG Scale: H. 1" = 10' V. 1" = 2' Date: 12/21/07	LAYOUT DRAWN: BAK REVIEWED: CAH	12/21/07 12/21/07 01/11/08
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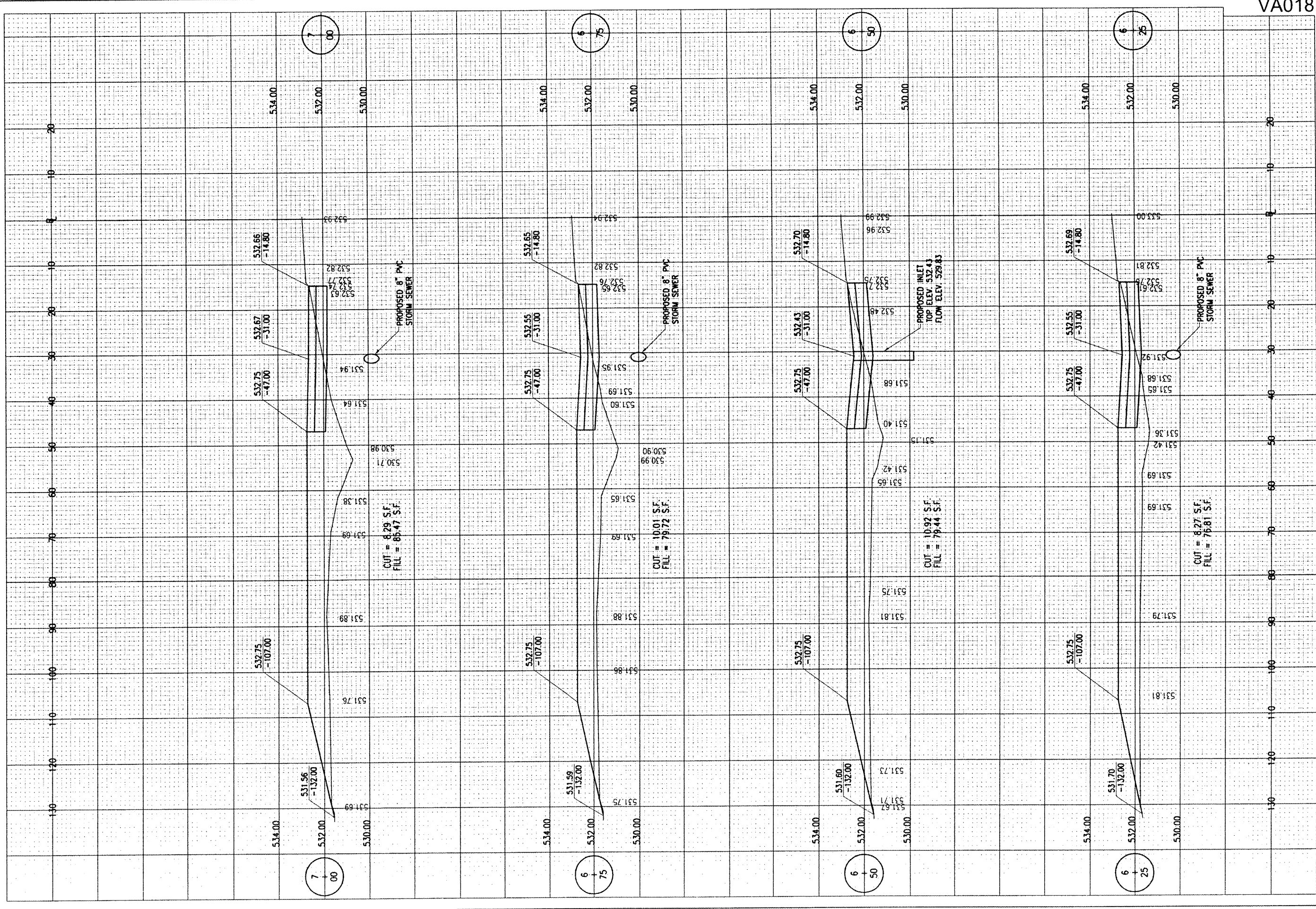
CONSTRUCT HANGAR  
 ACCESS TAXIWAY

PROPOSED CROSS-SECTIONS  
 FOR HANGAR ACCESS TAXIWAY  
 STA. 4+66.50 TO STA. 5+00



VA018

<p><b>CONSTRUCT HANGAR ACCESS TAXIWAY</b>                  PROPOSED CROSS-SECTIONS FOR HANGAR ACCESS TAXIWAY                  STA. 5+25 TO STA. 6+00</p>	<p><b>HANSON</b>                  Hanson Professional Services Inc.                  1525 South Sixth Street                  Springfield, Illinois 62703-2886                  Offices Nationwide</p>	<p>HEI Project No. 07A0088D.0800                  Client: R-302XS.DWG                  Scale: H. 1" = 10' V. 1" = 2'                  Date: 12/21/07</p>	<p>DATE</p>	<p>REVISION</p>	<p>BY</p>
		<p>LAYOUT: BAK 12/21/07                  DRAWN: BAK 12/21/07                  REVIEWED: CAH 01/11/08</p>	<p>IL PROJ.: VIA-3724                  A.I.P. PROJ.: 3-17-0102-B10</p>	<p>12</p>	<p>15</p>



VA018

DATE	REVISION	BY

VANDALIA MUNICIPAL AIRPORT  
 VANDALIA, ILLINOIS

IL PROJ.: VLA-3724 A.I.P. PROJ.: 3-17-0102-B10

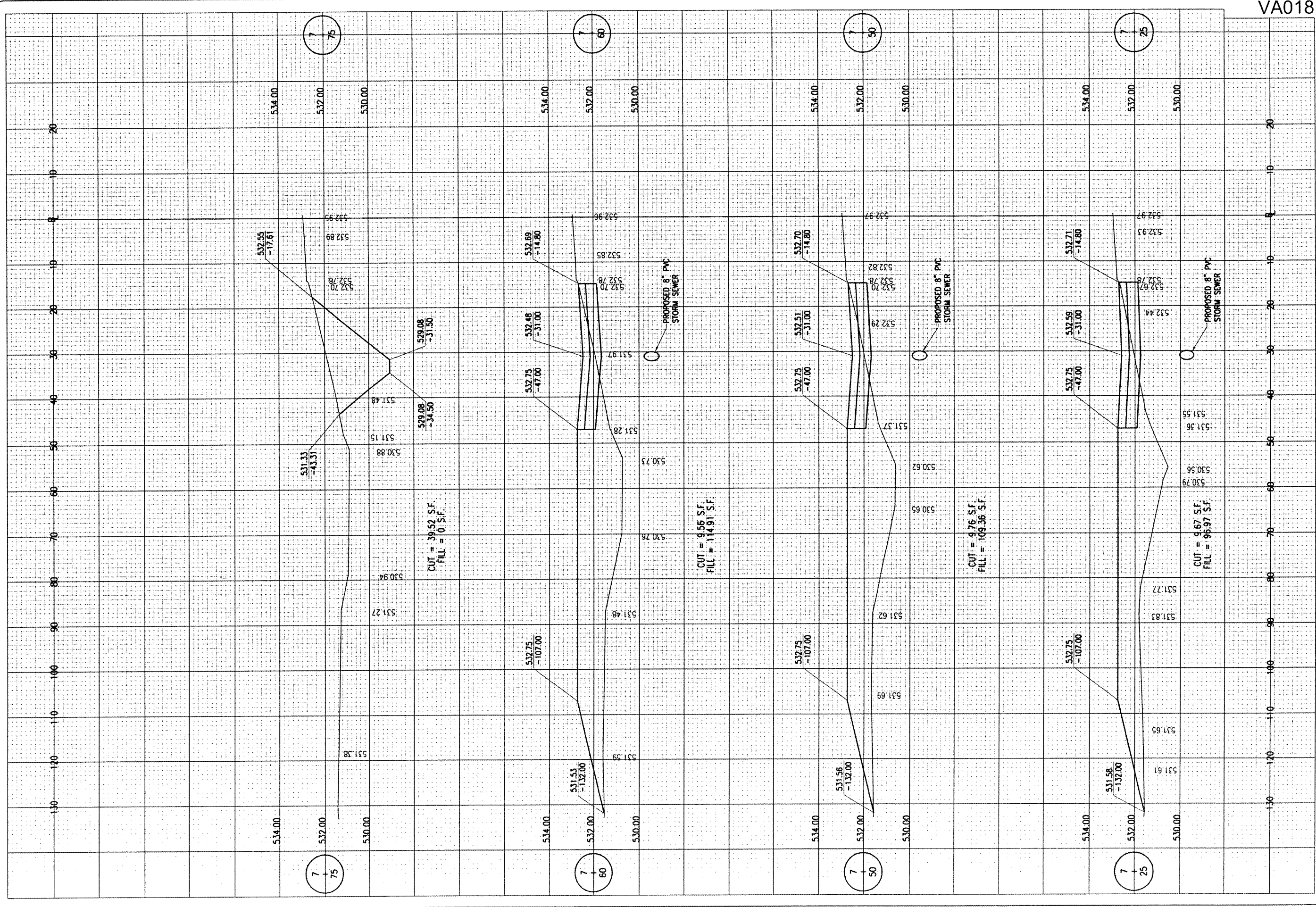
H&L Project No. 07A00880_0800 Filename: R-303XS.DWG Scale: H, 1" = 10' V, 1" = 2' Date: 01/02/08	LAYOUT DRAWN REVIEWED	BAK BAK CAH	01/02/08 01/02/08 01/11/08
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CONSTRUCT HANGAR ACCESS TAXIWAY

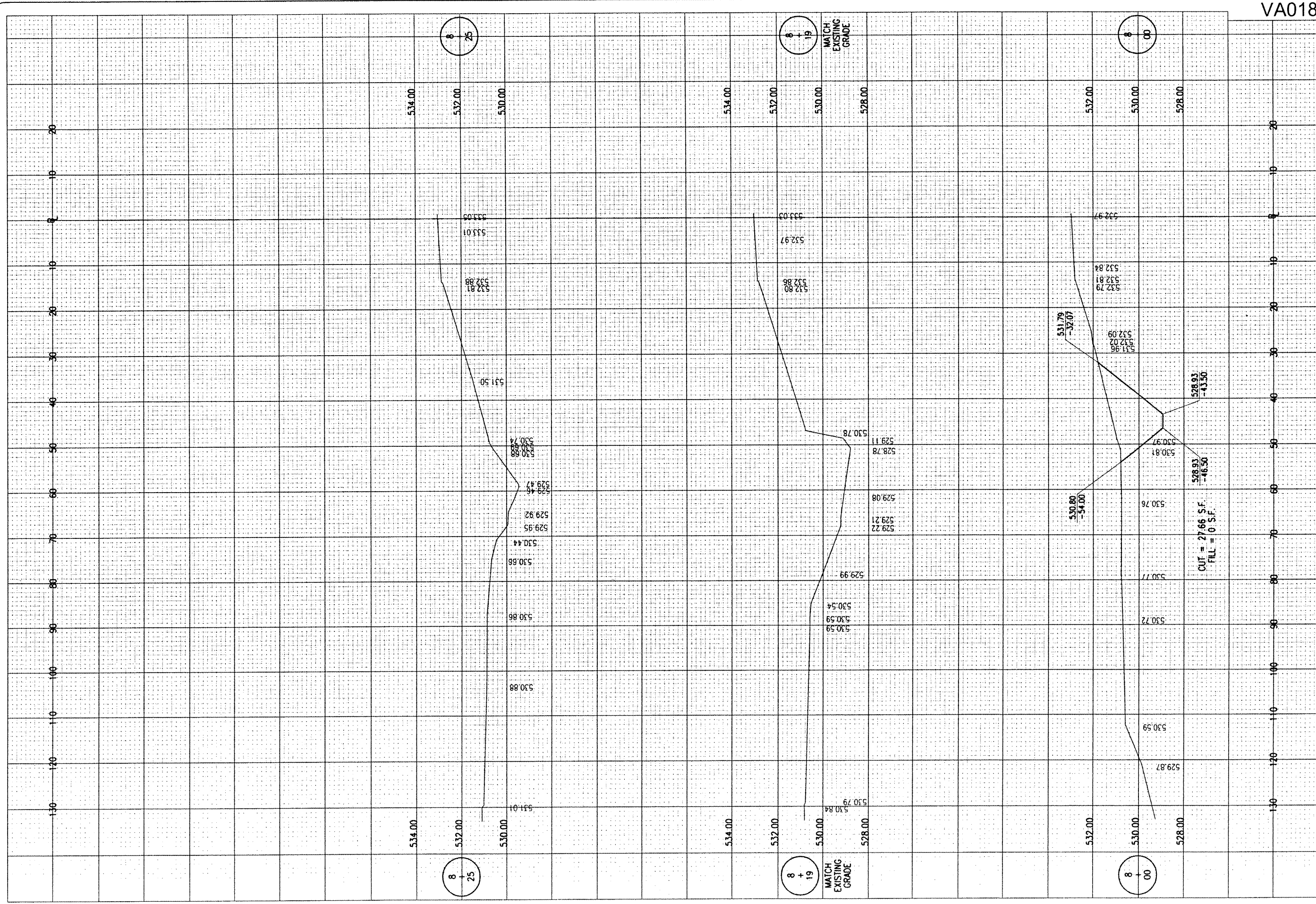
PROPOSED CROSS-SECTIONS FOR HANGAR ACCESS TAXIWAY

STA. 6+25 TO STA. 7+00



VA018

<b>14</b>	<b>CONSTRUCT HANGAR ACCESS TAXIWAY</b> PROPOSED CROSS-SECTIONS FOR HANGAR ACCESS TAXIWAY FOR HANGAR ACCESS TAXIWAY STA. 7+25 TO STA. 7+75		 Hanson Professional Services Inc. 1525 South Sixth Street Springfield, Illinois 62703-2886 Offices Nationwide	H&E Project No. 07A00880_0800 Filename: R-304XS.DWG Scale: H, 1" = 10' V, 1" = 2' Date: 01/02/08		LAYOUT: BAK 01/02/08 DRAWN: BAK 01/02/08 REVIEWED: CAH 01/11/08		VANDALIA MUNICIPAL AIRPORT VANDALIA, ILLINOIS		DATE	REVISION	BY
	I.L. PROJ.: VLA-3724 A.I.P. PROJ.: 3-17-0102-B10											



VA018

<b>15</b>	CONSTRUCT HANGAR ACCESS TAXIWAY PROPOSED CROSS-SECTIONS FOR HANGAR ACCESS TAXIWAY STA. 8+00 TO STA. 8+25	Hanson Professional Services Inc. 1526 South Sixth Street Springfield, IL 62766 Offices Nationwide		H.E. Project No. 07A0088D.0800 Elevation R_305XS.DWG Scale H. 1" = 10' V. 1" = 2' Date 01/02/08	LAYOUT BAK 01/02/08 DRAWN BAK 01/02/08 REVIEWED CAH 01/11/08	VANDALIA MUNICIPAL AIRPORT VANDALIA, ILLINOIS IL. PROJ.: VIA-3724 A.I.P. PROJ.: 3-17-0102-B10	DATE REVISION BY