

**705-UNDERDRAIN NOTES:**

THE PROPOSED UNDERDRAIN PIPE WILL BE CONSTRUCTED IN ACCORDANCE WITH ITEM 705 "PIPE UNDERDRAINS FOR AIRPORTS" AS STATED ON PAGE 109 OF THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JULY 1, 2004.

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING 4" P.E. TUBING (WRAPPED) AND UNDERDRAIN INSPECTION HOLES AT THE LOCATIONS AND TO THE GRADES SHOWN ON THE CONSTRUCTION PLANS.

705-3.3 LAYING AND INSTALLING PIPE. REVISE THIS SECTION AS FOLLOWS:

"PIPE DRAINS SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER. THE PIPE SHALL BE BEDDED IN THE UNDERLYING MATERIAL TO A DEPTH NOT LESS THAN 10 PERCENT OF THE EXTERNAL DIAMETER OF THE PIPE, AND WHERE TRENCHING IS REQUIRED, THE TRENCH SHALL HAVE A WIDTH OF NOT LESS 8 IN. THE BOTTOM OF THE TRENCH SHALL BE COMPACTED IN A MANNER MEETING THE APPROVAL OF THE ENGINEER.

JOINTS AND FITTINGS MAY BE ASSEMBLED WITHOUT GASKETS OR SOLVENT CEMENT IF THE JOINT IS SAND TIGHT AND THE SPIGOT ENTERS THE SOCKET NOT LESS THAN 1/3 OF THE SOCKET DEPTH FOR SOLVENT CEMENT JOINTS AND FULL-DEPTH FOR ELASTOMERIC GASKET JOINTS.

NO PIPE SHALL BE PLACED IN THE TRENCH UNTIL IT AND THE PREPARED FOUNDATION HAVE BEEN APPROVED BY THE RESIDENT ENGINEER. THE PIPE SHALL BE LAID SO THAT THE FLOWLINE WILL BE AT THE GRADE SHOWN ON THE PLANS OR ESTABLISHED BY THE RESIDENT ENGINEER. THE PERMISSIBLE MINIMUM COVER OVER A PIPE SHALL BE 6 IN.

LAYING OF PIPES SHALL COMMENCE AT THE OUTLET END AND PROCEED TOWARD THE INLET END WITH THE PIPES TRUE TO LINE AND GRADE.

THE ENDS OF THE PIPE SHALL BE CAREFULLY CLEANED BEFORE THEY ARE PLACED, AND SHALL BE PLACED TO AVOID UNNECESSARY HANDLING ON THE FOUNDATION. AS EACH LENGTH OF PIPE IS LAID, THE ENDS OF THE PIPE SHALL BE PROTECTED TO PREVENT THE ENTRANCE OF ANY MATERIAL.

LONGITUDINAL LAPS SHALL BE PLACED AT THE SIDES AND SEPARATE SECTIONS OF PIPE SHALL BE JOINED WITH TIGHTLY-DRAWN, APPROVED CONNECTING BANDS.

THE TRENCH SHALL BE BACKFILLED WITH SELECT MATERIAL, MEETING THE APPROVAL OF THE ENGINEER, PLACED IN 8 IN. LAYERS, LOOSE MEASUREMENT, AND COMPACTED TO THE ENGINEER'S SATISFACTION. THE PIPE UNDER PROPOSED PAVEMENT, PLUS 10 FT ON EITHER SIDE, WILL BE BACKFILLED WITH POROUS BACKFILL TO THE ORIGINAL GROUND ELEVATIONS OR TO THE SUBGRADE ELEVATION IF THE FILL HAS BEEN CONSTRUCTED PRIOR TO THE INSTALLATION."

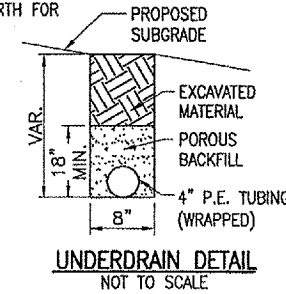
705-3.6 BACKFILLING; ADD THE FOLLOWING TO THIS SECTION:

"THE EDGE DRAIN TRENCH WILL BE BACKFILLED WITH POROUS BACKFILL IN ACCORDANCE WITH THE DETAIL ON THE CONSTRUCTION PLANS. THE POROUS BACKFILL WILL BE COMPACTED IN ACCORDANCE WITH THE SPECIFICATION SET FORTH FOR GRANULAR MATERIAL BACKFILL."

THE PROPOSED UNDERDRAIN PIPE WILL BE PAID FOR UNDER ITEMS:  
 AR705410 POROUS BACKFILL \_\_\_\_\_ 167 C.Y.  
 AR705526 6" PERFORATED UNDERDRAIN W/SOCK \_\_\_\_\_ 2,644 L.F.  
 AR705530 UNDERDRAIN INSPECTION HOLE \_\_\_\_\_ 11 EACH

**LEGEND**

- EXISTING PAVEMENT
- PROPOSED PAVEMENT
- EXISTING SANITARY SEWER
- EXISTING UNDERDRAIN
- EXISTING STORM SEWER
- EXISTING SANITARY SEWER MANHOLE
- EXISTING STORM SEWER MANHOLE
- EXISTING UNDERDRAIN INSPECTION HOLE
- EXISTING STORM SEWER HEADWALL
- EXISTING INLET
- EXISTING UNDERDRAIN (TO BE REMOVED)
- EXISTING STORM SEWER (TO BE REMOVED)
- EXISTING UNDERDRAIN INSPECTION HOLE (TO BE REMOVED)
- EXISTING HEADWALL (TO BE REMOVED)
- PROPOSED UNDERDRAIN
- PROPOSED UNDERDRAIN INSPECTION HOLE



**REMOVE UNDERDRAIN INSPECTION HOLE NOTE**

THE EXISTING UNDERDRAIN INSPECTION HOLES, AS INDICATED, THAT INTERFERE WITH THE PROPOSED PAVEMENT EXPANSION WILL BE REMOVED. CARE SHOULD BE TAKEN NOT TO DAMAGE THE EXISTING UNDERDRAIN (TO BE REUSED) WHEN REMOVING THESE INSPECTION HOLES.

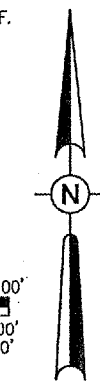
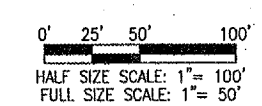
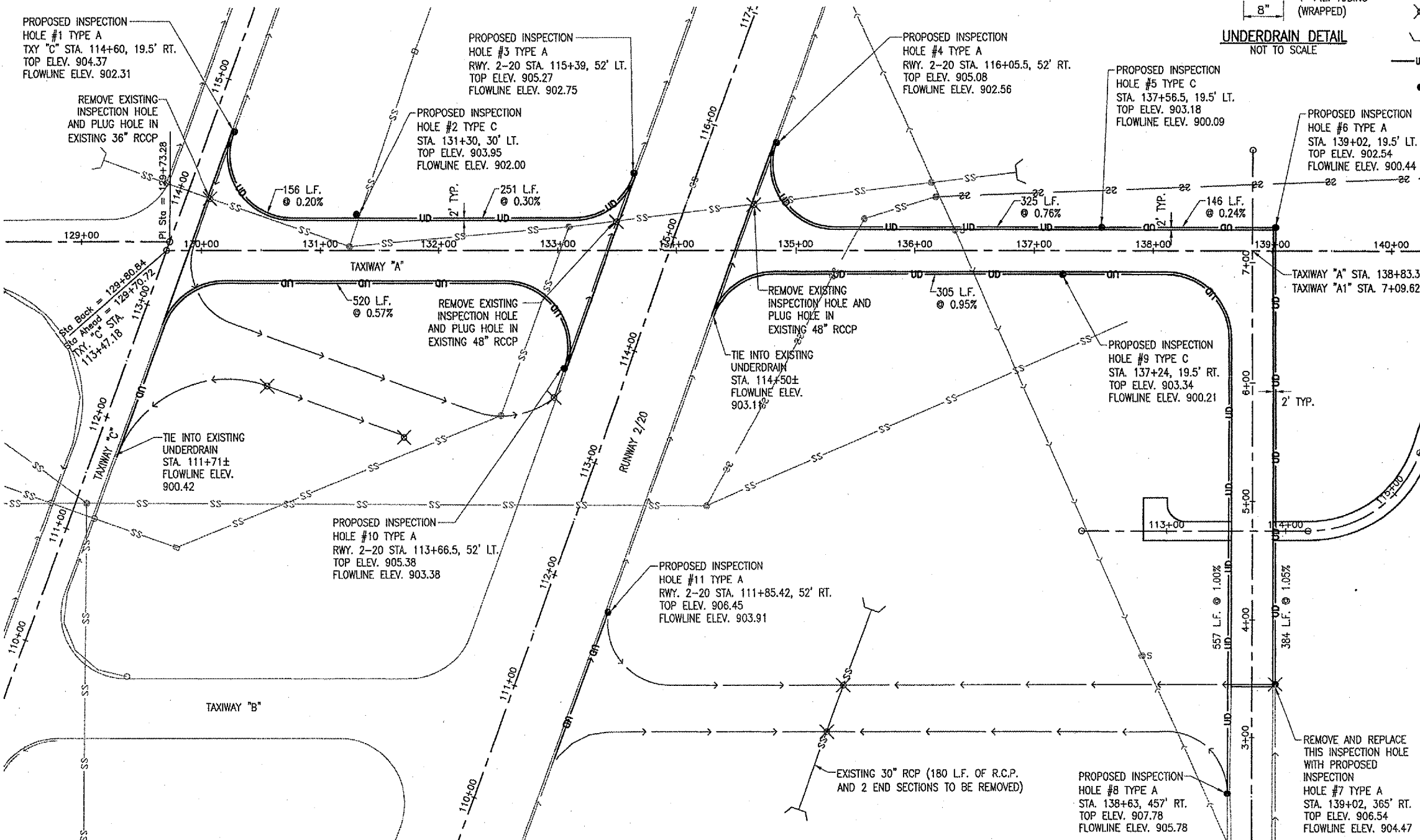
SOME OF THESE INSPECTION HOLES ARE CONNECTED TO REINFORCED CONCRETE PIPE (RCP). THE CONTRACTOR WILL EXCAVATE AROUND THESE STRUCTURES TO THE TOP OF THE RCP AND CAREFULLY REMOVE THE INSPECTION HOLE. THE RESULTING HOLE WILL BE PLUGGED AS DETAILED OR IN A MANNER SATISFACTORY TO THE RESIDENT ENGINEER TO PROVIDE A LEAK PROOF REPAIR. THE CONTRACTOR WILL USE SELECT BACKFILL MATERIAL AND COMPACT IN LIFTS TO THE SATISFACTION OF THE RESIDENT ENGINEER.

AT THE CONTRACT UNIT PRICE BID PER EACH INSPECTION HOLE REMOVED, THIS PRICE WILL CONSTITUTE FULL COMPENSATION FOR THE REMOVAL AND DISPOSAL OF THE INSPECTION HOLES, PLUGGING OF THE RCP, AND EXCAVATING AND BACKFILLING FOR THE INSPECTION HOLE REMOVAL.

THE REMOVAL OF THE UNDERDRAIN INSPECTION HOLE WILL BE PAID FOR UNDER ITEM:  
 AR705903 "REMOVE UNDERDRAIN INSP. HOLE" \_\_\_\_\_ 9 EACH.

**PIPE REMOVAL NOTE**

THE EXISTING 30" RCP AND 2 FLARED END SECTIONS AS SHOWN ON THE PLANS WILL BE EXCAVATED AND REMOVED. IF UNWANTED BY THE AIRPORT, THESE PIPE AND END SECTIONS WILL BE PLACED IN A FILL AREA (MINIMUM OF 2' COVER) NOT INTERFERING WITH FUTURE DEVELOPMENT AND CRUSHED AND BURIED TO THE SATISFACTION OF THE RESIDENT ENGINEER. THIS ITEM SHALL BE FULL COMPENSATION FOR REMOVAL AND DISPOSAL OF THE 30" RCP, END SECTIONS AND RIPRAP AND SHALL BE PAID FOR UNDER ITEM:  
 AR701900 "REMOVE PIPE" \_\_\_\_\_ 180 L.F.



DK050

BY	REVISION	DATE

**DIMAX**  
 DEKALB TAYLOR MUNICIPAL AIRPORT  
 I.L. PROJ.: 3-17-0139-B42  
 I.L. PROJ.: DK6-3448

Project No. 903-05TXAD_0800	Plan No. R-132DRN.DWG	Scale 1"=50'	Date 01/18/06
LAYOUT J.E.C. 01/18/06	DRAWN B.A.K. 01/18/06	REVIEWED C.A.H. 03/16/06	

**HANSON**  
 Hanson Professional Services Inc.  
 1525 South Sixth Street  
 Springfield, Illinois 62705-2886  
 Offices Nationwide

EXTEND TAXIWAY "A"  
 PROPOSED EDGE DRAIN PLAN FOR TAXIWAY "A"  
 STA. 129+00 TO STA. 140+00

APR 13, 2006 8:41 AM CAH I:\AIRPORTS\DEKALB\903-05TXAD\AIRPORT\SHEETS\TWY-A\_EXT-R-132DRN.DWG - Layout1