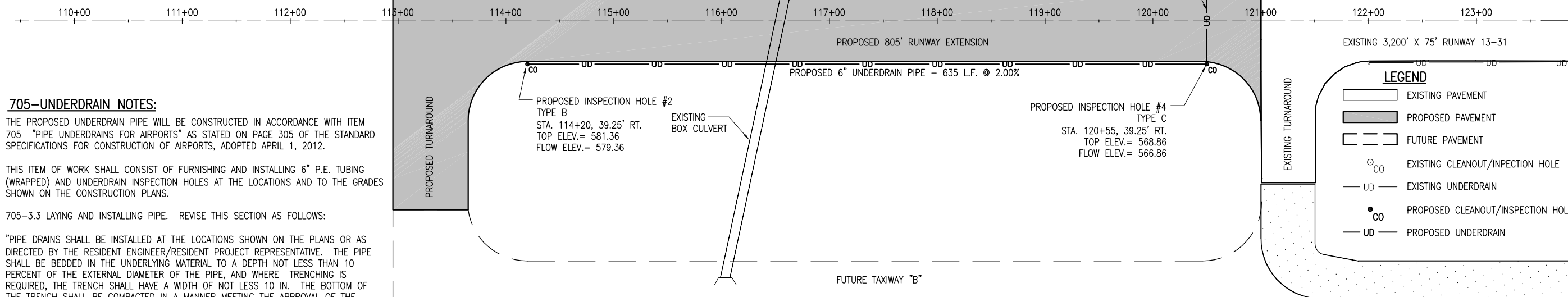


UNDERDRAIN DETAIL
NOT TO SCALE



REMOVE INSPECTION HOLE NOTES:

THE EXISTING INSPECTION HOLE LOCATED AT STA. 121+00 38.67' LT. WILL BE REMOVED AND DISPOSED OF OFF THE AIRPORT SITE. THE CONTRACTOR WILL CONNECT THE PROPOSED 6" UNDERDRAIN PIPE TO THE EXISTING 6" UNDERDRAIN PIPE.

THE HOLE WILL BE BACKFILLED WITH POROUS BACKFILL TO THE DEPTH OF THE EXISTING POROUS BACKFILL AND THE REMAINDER WITH EARTH MATERIAL. THE EARTH MATERIAL WILL BE COMPACTED TO THE SATISFACTION OF THE RESIDENT ENGINEER/RESIDENT PROJECT REPRESENTATIVE.

THE REMOVAL OF THE EXISTING INSPECTION HOLE WILL BE PAID FOR UNDER ITEM: AR705903 REMOVE UNDERDRAIN INSP. HOLE - PER EACH.

705-UNDERDRAIN NOTES:

THE PROPOSED UNDERDRAIN PIPE WILL BE CONSTRUCTED IN ACCORDANCE WITH ITEM 705 "PIPE UNDERDRAINS FOR AIRPORTS" AS STATED ON PAGE 305 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORTS, ADOPTED APRIL 1, 2012.

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING 6" 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/RESIDENT PROJECT REPRESENTATIVE. 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 10 IN. THE BOTTOM OF THE TRENCH SHALL BE COMPACTED IN A MANNER MEETING THE APPROVAL OF THE RESIDENT ENGINEER/RESIDENT PROJECT REPRESENTATIVE.

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/RESIDENT PROJECT REPRESENTATIVE. THE PIPE SHALL BE LAID SO THAT THE FLOWLINE WILL BE AT THE GRADE SHOWN ON THE PLANS OR ESTABLISHED BY THE RESIDENT ENGINEER/RESIDENT PROJECT REPRESENTATIVE. 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 RESIDENT ENGINEER'S/RESIDENT PROJECT REPRESENTATIVE SATISFACTION. THE PIPE UNDER PROPOSED PAVEMENT, PLUS 5 FT ON EITHER SIDE, WILL BE BACKFILLED WITH POROUS BACKFILL TO THE ORIGINAL GROUND ELEVATIONS.

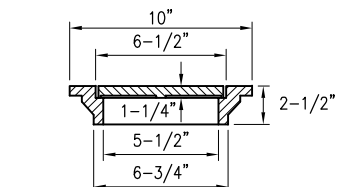
705-3.6 BACKFILLING; ADD THE FOLLOWING TO THIS SECTION:

"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 PER C.Y.
AR705526 6" PERFORATED UNDERDRAIN W/SOCK PER L.F.
AR705630 UNDERDRAIN INSPECTION HOLE PER EACH

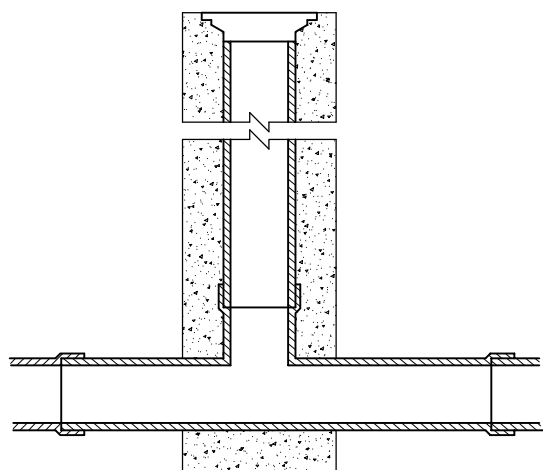
LEGEND

- EXISTING PAVEMENT
- PROPOSED PAVEMENT
- FUTURE PAVEMENT
- EXISTING CLEANOUT/INSPECTION HOLE
- EXISTING UNDERDRAIN
- PROPOSED CLEANOUT/INSPECTION HOLE
- PROPOSED UNDERDRAIN

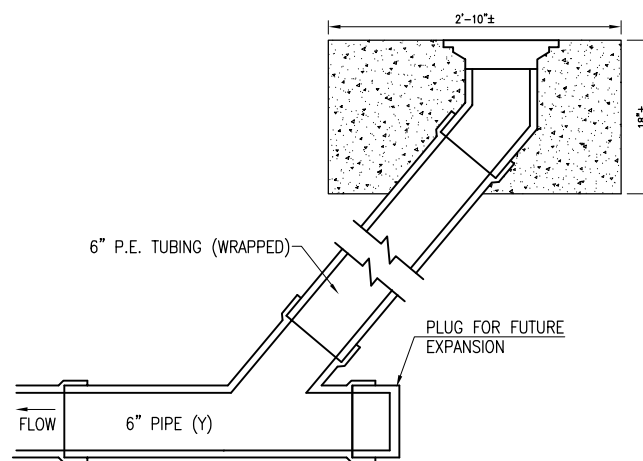


CAST IRON FRAME AND COVER

NEENAH R-6013, DEETER 1810,
EAST JORDAN 2790-6 OR
APPROVED EQUAL



INSPECTION HOLE-TYPE A



CLEANOUT HOLE-TYPE B

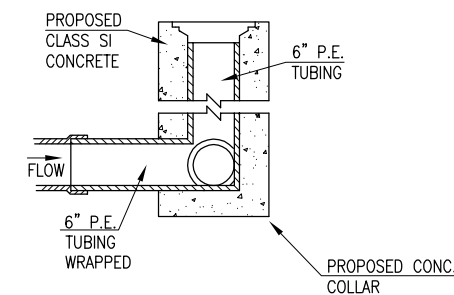
INSPECTION HOLE NOTES

DIAMETER OF PIPE AS SPECIFIED.

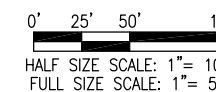
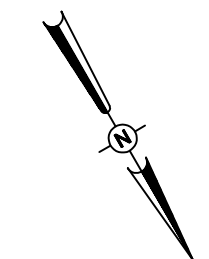
TOP OF INSPECTION HOLES SHALL BE 2" ABOVE FINISH GROUND LINE AT LOCATION SHOWN ON PLANS.

1/2" CHAMFER TO BE USED ON ALL EXPOSED EDGES OF INSPECTION HOLES.

THE CONCRETE SHALL BE STRUCTURAL PORTLAND CEMENT CONCRETE (NON-REINFORCED)



**TYPE C
INSPECTION HOLE DETAIL**
"NOT TO SCALE"



REVISION	DATE

MARSHALL COUNTY AIRPORT
LACON, ILLINOIS

BLOCK GRANT PROJ.: 3-17-0059-B15
IL PROJ.: C75-4223

Hanson Proj. No. 10A00051	BAK	07/09/10
Filename R-131DRN.DWG	BAK	07/09/10
Scale 1"=50'	BAK	07/09/10
Date 12/14/12	CAH	
LAYOUT		
DRAWN		
REVIEWED		

HANSON
Professional Services Inc. 2013
Hanson Professional Services Inc.
1525 South Sixth Street
Springfield, Illinois 62703-2986
Ph: (217) 788-2450 Fax: (217) 788-2503
www.hanson-inc.com
Offices Nationwide

PAVE, LIGHT AND MARK
805' EXTENSION
PROPOSED DRAINAGE PLAN

JAN 10, 2013 3:01 PM KINC00394
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