

GENERAL NOTES:

BACKUP STRUCTURE:
 EACH NCIAS UNIT SHALL BE PROVIDED WITH A STEEL BACK UP STRUCTURE. THE BASE PLATE SHALL BE 1" - THICK STEEL WITH TWENTY - THREE (23) 1" - DIAMETER HOLES AS SHOWN, INCLUDING THREE (3) LOCATED INSIDE THE VERTICAL PIPES FOR VENTING. THE 6", 8", AND 10" I.D. PIPE SHALL BE EXTRA STRONG, SCHEDULE 8 - STEEL PIPE. EACH PIPE SHALL HAVE A 3/4" x 3/4" V-NOTCH CUT FROM THE TIP EDGE FOR VENTING. THE 6" PIPE SHALL HAVE FOUR (4) 7/8" - DIAMETER x 2" - LONG BOLTS SECURED AS SHOWN IN SECTION F-F. THESE BOLTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153, AND THE HEAD OF EACH BOLT SHALL BE SECURELY WELDED IN TWO (2) PLACES TO THE INSIDE OF THE 6" PIPE. THE 8" AND 10" PIPES SHALL HAVE 2" ID SCHEDULE 40 PIPES POSITIONED AND WELDED INTERNALLY AS SHOWN IN SECTIONS G-G AND H-H. THE 2" PIPE ENDS SHALL BE WELDED ALL THE WAY AROUND AND MACHINED FLUSH WITH THE OUTSIDE OF THE LARGER PIPES. THE 6" PIPE SHALL ALSO BE WELDED TO EACH OTHER FOR THEIR LENGTH ON BOTH SIDES. THE 1/2" - THICK TOP PLATE SHALL HAVE FOUR (4) 13/16" - DIAMETER HOLES. TWO (2) STRUCTURALLY ADEQUATE PAD EYES SHALL BE WELDED TO THE TOP OF THE PLATE FOR LIFTING PURPOSES. THE TOP PLATE SHALL BE WELDED TO EACH VERTICAL PIPE ALL THE WAY AROUND, EXCEPT AT THE V-NOTCH LOCATIONS. THREADS OF BOLTS EXTENDING FROM THE 6" PIPE PROTECTED DURING GALVANIZING OF THE BACKUP STRUCTURE.

WIRE ROPES AND END FITTINGS:
 EACH COMPLETE NCIAS UNIT SHALL BE SUPPLIED WITH FOUR (4) 1" - DIAMETER 6 x 25 STEEL CORE, HIGH - STRENGTH WIRE ROPES. EACH OF THE; WIRE ROPES SHALL HAVE A CLOSED INDUSTRIAL - TYPE SWAGE SOCKET ATTACHED TO ONE END, AND A 1 3/4" - DIAMETER THREADED STUD ASSEMBLY ATTACHED TO THE OTHER END. ALL WIRE RIPE INDUSTRIAL FITTINGS SHALL BE MANUFACTURER'S RECOMMENDATIONS. THE TENSILE STRENGTH OF ALL END FITTING CONNECTIONS SHALL BE EQUAL TO OR GREATER THAN THE ATUOLOGUED TENSILE STRENGTH OF THE WIRE RIPE. TWO (2) OF THE FOUR (4) WIRE ROPES (UPPER) SHALL HAVE A FINISHED LENGTH OF 28'-4". THE OTHER TWO (2) WIRE ROPES (LOWER) SHALL HAVE A FINISHED LENGTH OF 27'-0". THESE FINISHED LENGTHS SHALL BE MEASURED FROM THE EXTREME TIP OF THE THREADS STUD ASSEMBLIES, FOUR (4) CURVED SQUARE WASHERS SHALL BE CUT FROM THE 8" AND 10" PIPE MATERIALS AND SUPPLIED WITH THE WIRE ROPES. EACH SPECIAL WASHER SHALL BE 4" x 4" x THEN CORRESPONDING PIPE WALL THICKNESS WITH A 1 7/8" - DIAMETER HOLE DRILLED IN THE CENTER FOR USE ON THE THREADED STUD. ALL SPECIAL WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123.



1" DIAMETER 6 x 25 STEEL CORE WIRE ROPE WITH FITTINGS ATTACHED PER SPECIFICATIONS.

REAR WIRE ROPE END FITTING INDUSTRIAL TYPE THREADED STUD WITH NUT AND CIRCULAR WASHER. (GALVANIZED)

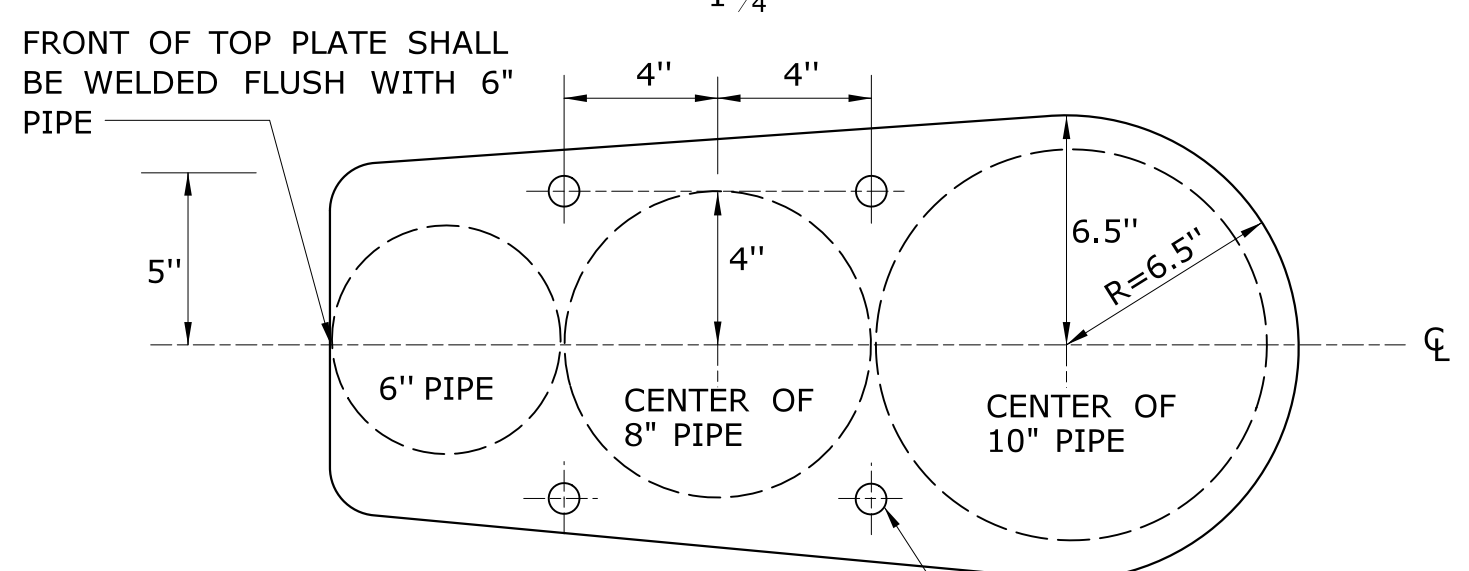
1 3/4" - 5 UNC 2A THREADS

CIRCULAR WASHER

NUT

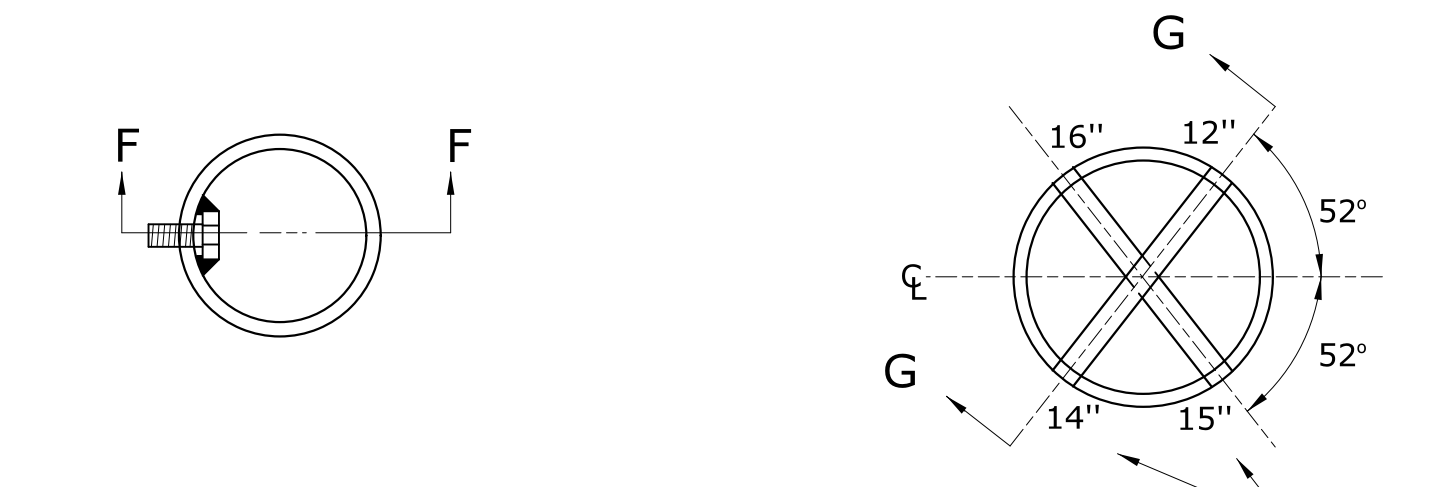
WIRE ROPES

(FOUR REQUIRED)



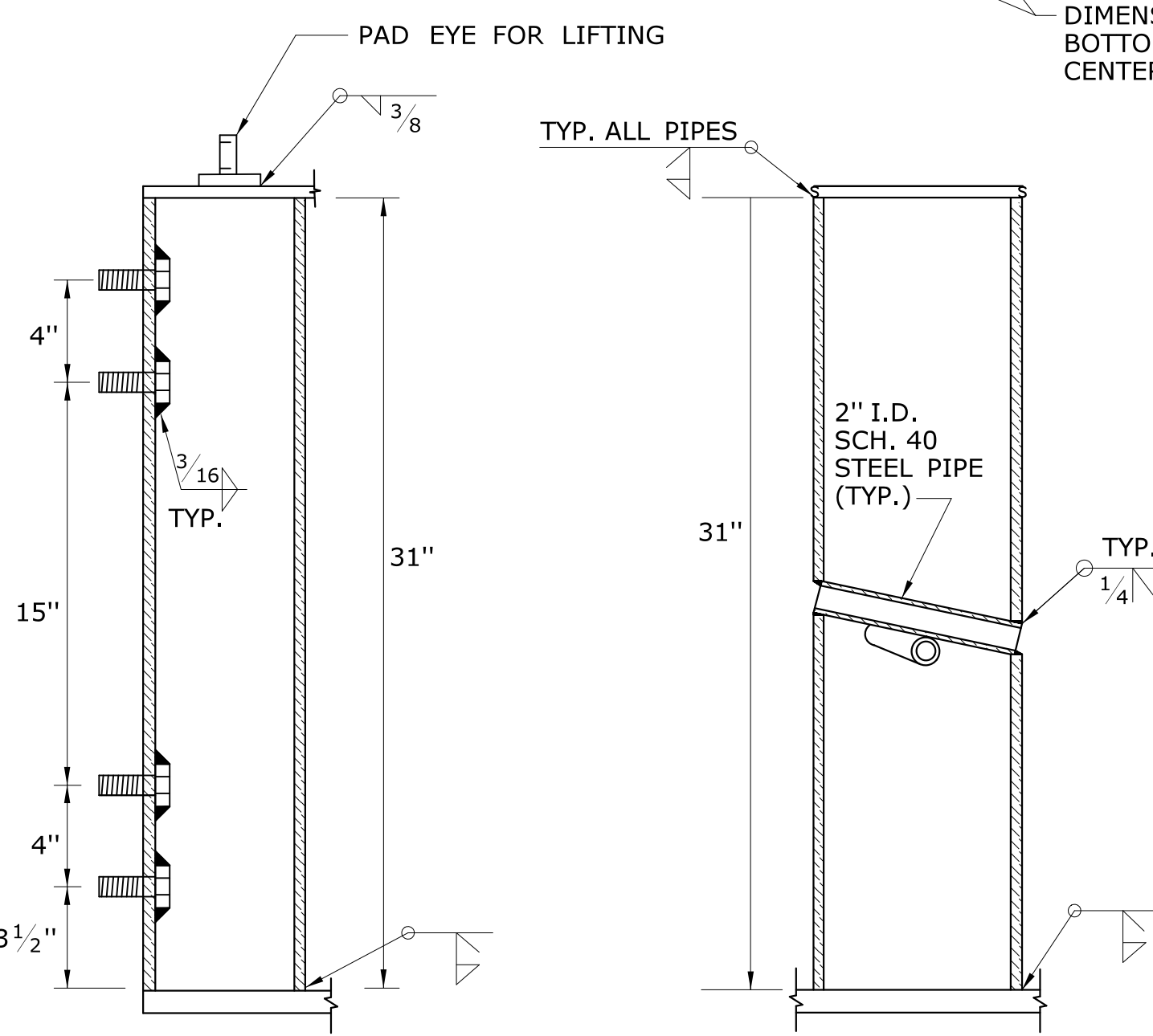
TOP PLATE DETAIL

13/16" DIA. HOLES, TYPICAL LOCATIONS SYMMETRICAL



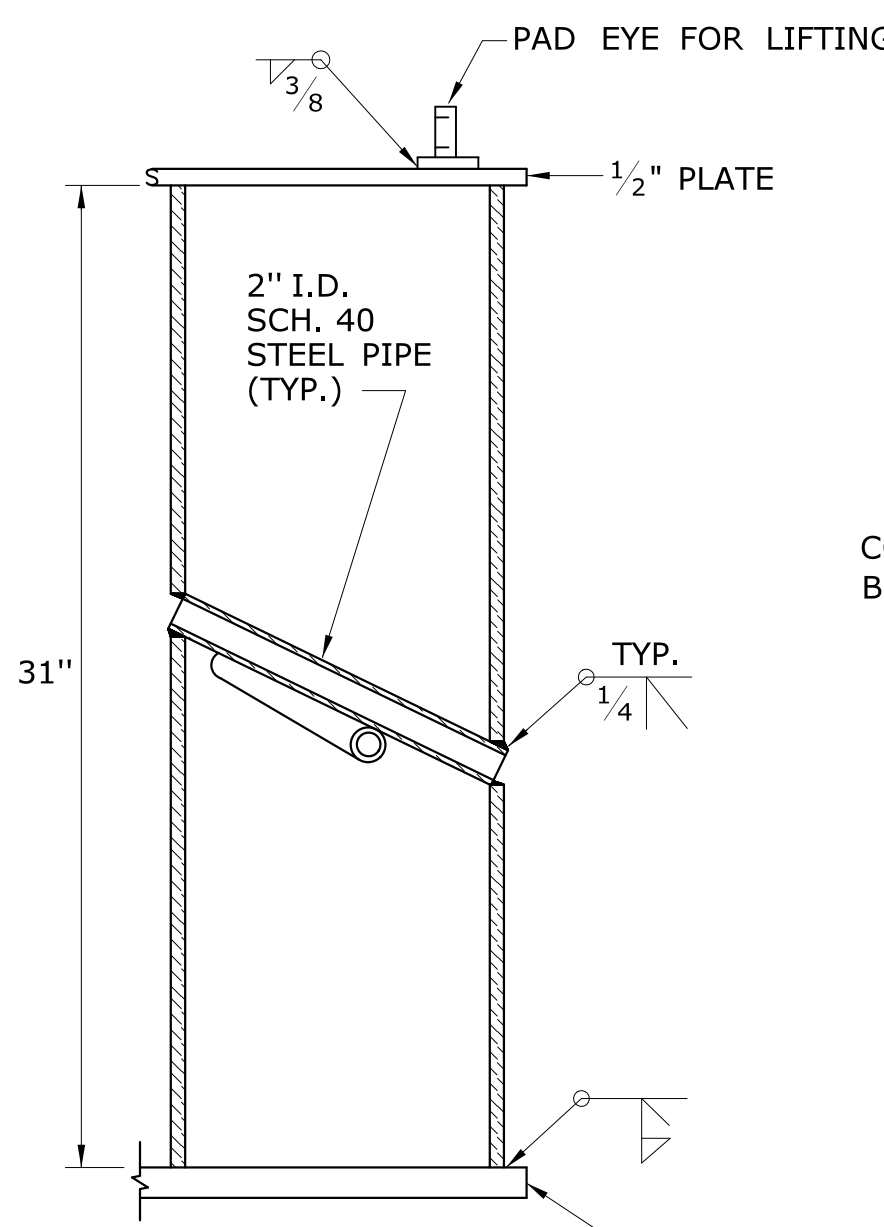
DIMENSIONS ARE FROM BOTTOM OF PIPE TO CENTERLINE OF 2" PIPE

DIMENSIONS ARE FROM BOTTOM OF PIPE TO CENTERLINE OF 2" PIPE

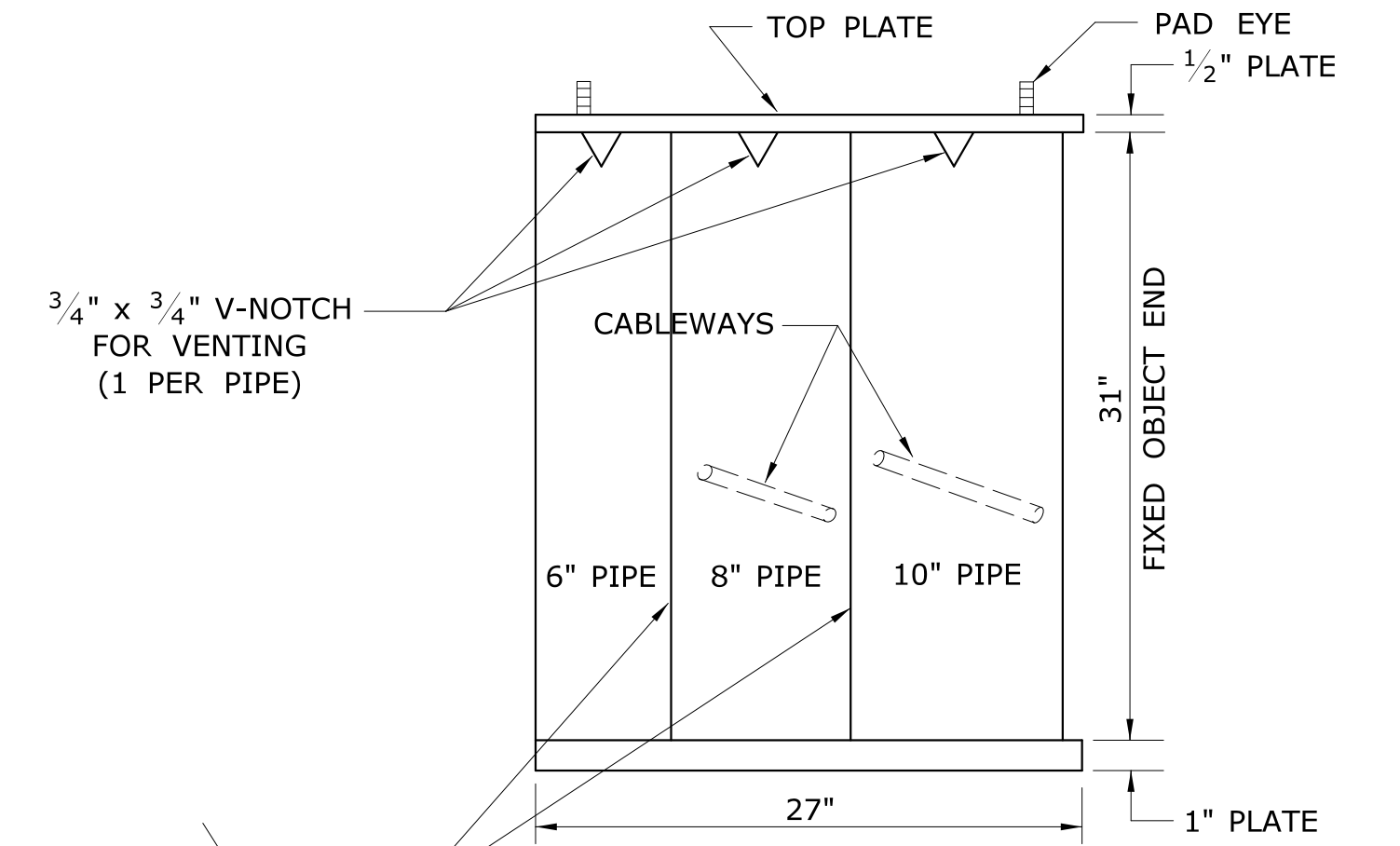


6" BACKUP PIPE SECTION F - F

8" BACKUP PIPE SECTION G - G



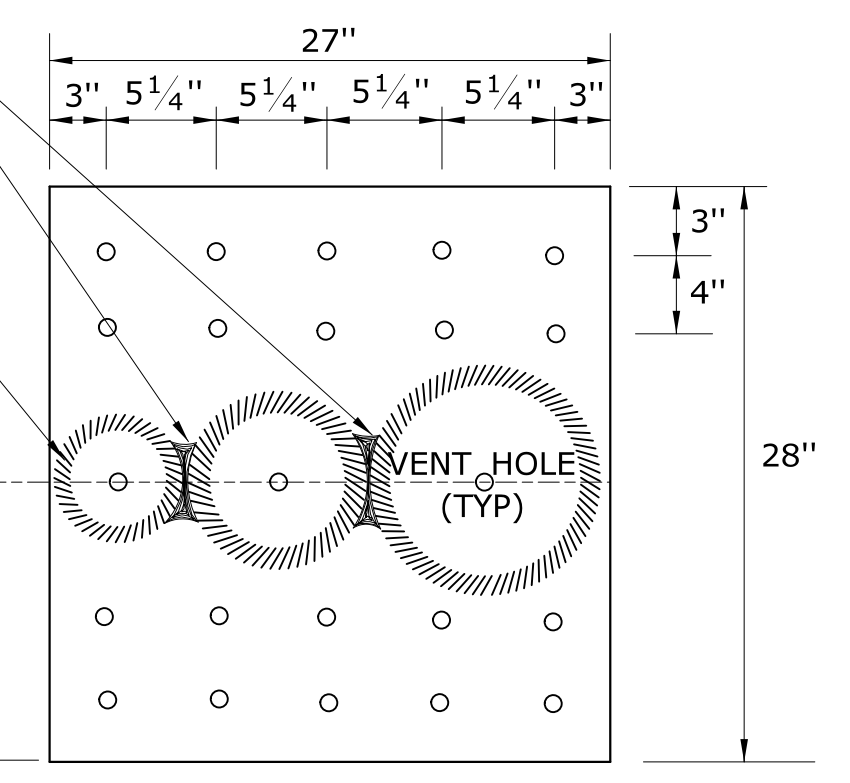
10" BACKUP PIPE SECTION H - H



COMPLETE PENETRATION BOTH SIDES, FULL LENGTH

SET 6" PIPE FLUSH WITH FRONT EDGE OF BASE PLATE

BASEPLATE BOLT HOLE DETAIL ALL HOLES ARE 1" DIAMETER



BACKUP STRUCTURE

(GALVANIZED) Revised 5/14/08

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: - CHECKED BY: - SCALE AS NOTED	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: ...Wclas4_2008.dgn	SIGNATURE/BLOCK: - OFFICE OF ENGINEERING APPROVED BY: - DATE: -	PROJECT TITLE: -	TOWN: - PROJECT NO. - DRAWING NO. 1804-B4 SHEET NO. \$\$\$
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 7/17/2013		