1.			
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5.			
6.			

Date Made	Signature	Name	Title
14.03.2021		Information	
12.07.2022	✓	Tender	
		Construction	

DURHAM PIPING ENGINEERING
6780 Trinity Dr. Arvada, CO 80003
303-456696 (DUR) 303-4632254 (FAX)
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Project	DUR
Project name	DURHAM PIPING
Subject of drawing	DURHAM TYPICAL DETAILS
Drawing No.	1
No.	556-2 HDPE LINER
Design standard	ASME B31.3
Designed by	YOD
Checked by	YOD

Date	14.03.2021	Scale	1"=1'
File	HDPE LINER.dwg	Size of print	11"x17"
Print by	YOD	Sheet No.	1 of 1

ALWAYS THINK SAFETY.

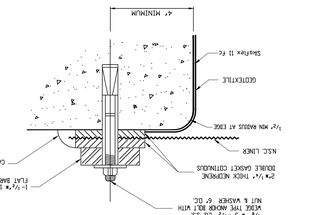
DURHAM PIPING PROJECT TO BE DESIGNED, W & MADE IN ACCORDANCE WITH ASME B31.3 CODE. ALL WELDERS TO BE CERTIFIED ACCORDING TO ASME SEC. IX. ALL WELDS TO BE VISUALLY INSPECTED AND 10% RANDOMLY RADIOGRAPHED.

P-1 DURHAM TYPICAL DETAILS

P-7 DURHAM PIPING TYPICAL CONCRETE ATTACHMENT

NOTE:
1. CONCRETE SURFACES AT ATTACHMENT LOCATIONS TO BE STEEL TROWEL FINISHED OR GROUND SMOOTH PRIOR TO INSTALLATION.
2. AVOID VERTICAL WALL ATTACHMENT WHENEVER POSSIBLE.
3. WHEN USING GEOTEXTILE OR DRAINAGE NET, DO NOT TERMINATE BENEATH BATTEN BAR.

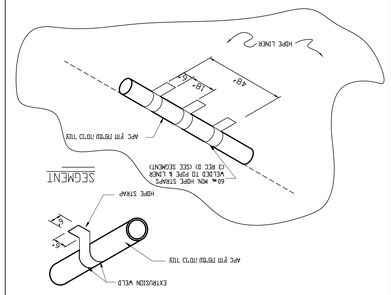
TYPICAL CONCRETE ATTACHMENT
BATTEN TYPE



P-8 DURHAM PIPING WIND BALLAST WEIGHT

NOTE:
1. QUANTITY & DIAMETER OF BALLAST WEIGHTS TO BE DETERMINED BASED ON SITE SPECIFIC CRITERIA SUCH AS WIND SPEED, ETC. AS DETERMINED BY THE DESIGN ENGINEER OF FOND, ETC.
2. AN ADDITIONAL LAYER OF LINER MAY BE REQUIRED BENEATH BALLAST WEIGHT TO AVOID POTENTIAL DAMAGE TO LINER.

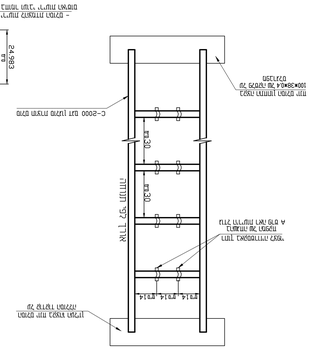
WIND BALLAST WEIGHT



P-24 DURHAM PIPING DOUBLE FUSION WELD

NOTE:
1. DOUBLE FUSION WELDING IS THE PRIMARY TECHNIQUE
2. AIR PRESSURE (OR VACUUM TESTING ARE THE NON-DESTRUCTIVE TEST METHODS FOR DOUBLE FUSION WELDS.
3. REFER TO CONSTRUCTION Q.C. MANUAL SECTION 3.5.

DOUBLE FUSION WELD

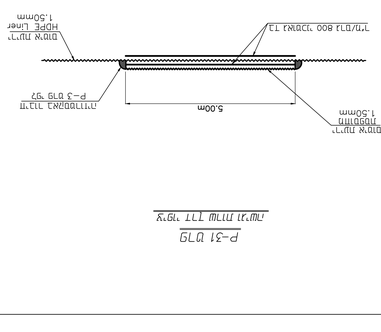


P-30 DURHAM PIPING NSC 90 TYPE 120

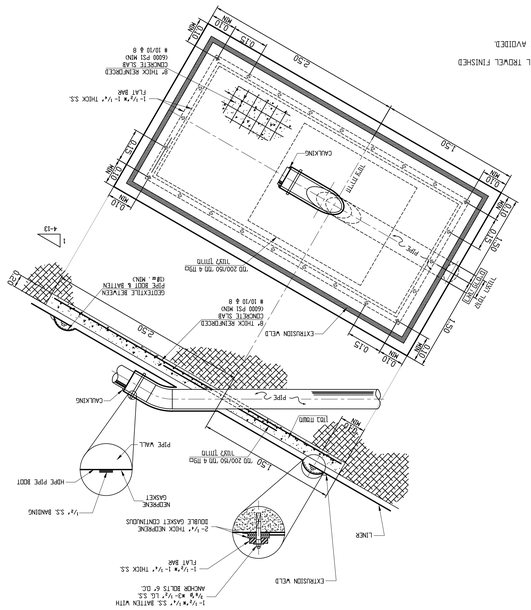
NOTE:
1. VENTS ARE CUSTOMARILY SPECED 90° ON CENTER OR AS RECOMMENDED BY THE DESIGN ENGINEER
2. TYP LOCATION OF PAD APPLICATIONS SHOULD BE LOCATED AT LEAST ONE TO TWO FEET ABOVE MAXIMUM WATERLINE.
3. VENT EVERY 25-30 ft

LINER VENT DETAIL
PATCH TYPE VENT NTS

P-31 DURHAM PIPING TYP VENT



P-6 DURHAM PIPING TYPICAL


2.50
0.15
1.50
0.10
0.10
0.10