LEGEND

BRUSHLINE	POST
CABLE MARKER	RAILROAD TRACKS
CATCH BASIN	SIGN
DROP INLET	SWAMP
FENCE	TRAFFIC LIGHT
FIRE HYDRANT	TRANSMISSION POLE
GUARD RAIL	TREE
LIGHT POLE	TREELINE
MISCELLANEOUS POLE	UNIDENTIFIED OBJECT
MONITORING WELL	UTILITY POLE
MONUMENT	VALVE
BUILDING	WATER LINE
PAVED ROAD	TRAIL
DIRT ROAD	INTERMEDIATE CONTOUR
× 100.0 SPOT ELEVATION	INDEX CONTOUR
SIDEWALK	DEPRESSION CONTOUR

ABBREVIATIONS

A,ASPH	ASPHALT
A/C	AIR CONDITIONER
BR	BRICK
CB	CATCH BASIN
C,CONC	CONCRETE
DI	DROP INLET
HDWL	HEAD WALL
MC	METAL COVER
MH	MANHOLE
TRANS	TRANSFORMER
U/C	UNDER CONSTRUCTION
W	WALL
WD	WOOD
W.E.	WATER ELEVATION
TR	TRAILER

This map compiled by photogrammetric methods from aerial photography dated 3-28-04
Vertical datum based on NGVD 1929.
Contour Interval 2 ft.
Grid based on Florida State Plane Coordinate System East Zone NAD 1983.
Air Survey Corp. Project NO. 7104035I

Dashed contours indicate that ground is partially obscured by vegetation or shadows. These areas may not meet standard accuracy and require field testing\completion.

This mapping has been compiled in accordance with procedures that have been demonstrated to comply with the National Standard For Spatial Data Accuracy (NSSDA), for a target horizontal mapping scale of 1inch = 100 feet and a specified contour interval of 2 feet.

AIR SURVEY
Photogrammetric Mapping Services

This map compiled by:
AIR SURVEY
45180 BUSINESS COURT
DULLES, VIRGINIA
20166-6706

0 200 400 600 800 1000
SCALE: 1"=200'

CONTROL LEGEND

AERIAL TARGET	STATE PLANE COORDINATES	LOCAL GRID COORDINATES	ELEVATION
AT201	N 2144294.71 E 325044.29	N 100+50 E 101+00	144.18
AT209	N 214287.18 E 325944.26		136.09
AT221	N 2144277.99 E 327044.22	N 100+50 E 121+00	124.51
AT214 (DESTR.)	N 2142430.48 E 326359.40	N 81+96.83 E 114+30.65	138.86
AT227	N 2142397.21 E 327702.30	N 81+74.79 E 127+73.78	122.69
AT242	N 2141409.96 E 329209.20	N 99+00.07 E 142+66.32	101.47
AT215	N 2141533.10 E 326421.25	N 73+00.00 E 115+00.00	130.56
AT299	N 2142546.44 E 324829.60	N 83+00.00 E 99+00.00	152.21

BOWMAN CONSULTING
CHARLES PORTER PSM.

THIS TOPOGRAPHIC SURVEY HAS BEEN PREPARED IN ACCORDANCE WITH CHAPTER 61G17-6 OF FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION. ADMINISTRATIVE CODE ADDRESSING MINIMUM TECHNICAL STANDARDS FOR SURVEYING AND MAPPING INDUSTRY

THIS MAP AND ATTACHED TRAIL RIDGE LANDFILL AND RECYCLING CENTER REPORT OF SURVEY ARE NOT FULL AND COMPLETE WITHOUT THE OTHER AND ARE NOT VALID WITHOUT THE SIGNATURE AND ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER

REV	DATE	DESCRIPTION	DES BY	APP BY

PROJECT NO	
DATE	
DES BY	
DRN BY	
CHK BY	
APP BY	

TRAIL RIDGE LANDFILL
DUVAL CO., FLORIDA

SHEET 1 OF 1
DRAWING NO

Trail Ridge Landfill, Inc.

CADD PRODUCED DRAWING

FIELD WORK: 00-00-0000 00:00
PLOT DATE: 00-00-0000 00:00

REFERENCE FILES:
RS:
RS:
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TITLEJOB LV=63
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DON LV:

TRAIL RIDGE LANDFILL, INC.

PERMIT RENEWAL
FOR TRAIL RIDGE LANDFILL

LIST OF DRAWINGS

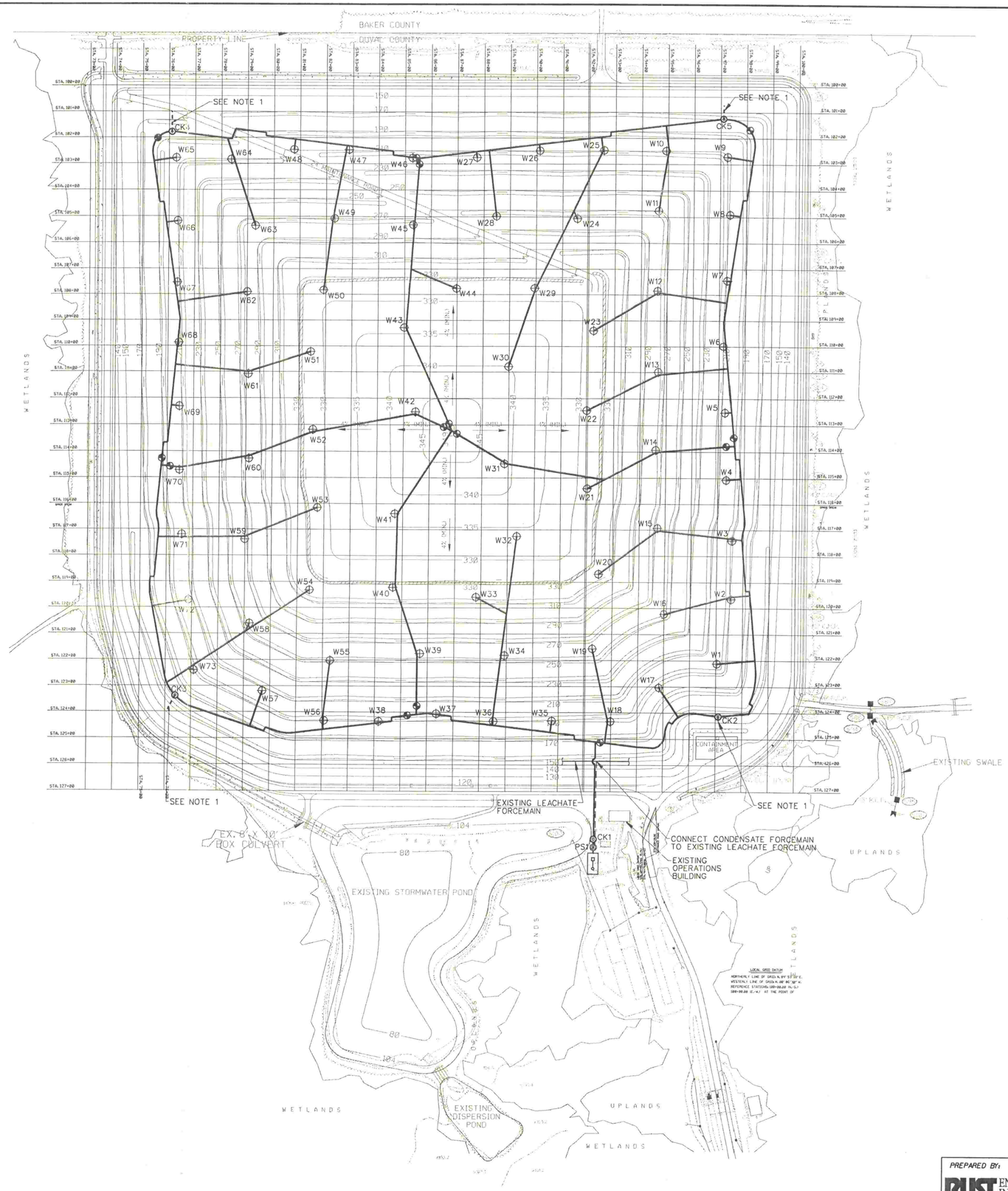
SHEET NO.	TITLE
1	GAS MANAGEMENT PLAN
2	LANDFILL GAS MANAGEMENT SYSTEM DETAILS
3	LANDFILL GAS /CONDENSATE MANAGEMENT SYSTEM DETAILS
4	FLARE STATION DETAILS
5	CONCEPTUAL GAS COLLECTION SYSTEM DETAILS
6	PASSIVE FLARE DETAIL

PREPARED FOR:
TRAIL RIDGE LANDFILL, INC.
5110 U.S. HWY. 301
BALDWIN, FL. 32234
(904) 289-9100

RUST ENVIRONMENT & INFRASTRUCTURE

PREPARED BY:
RUST ENVIRONMENT & INFRASTRUCTURE
15 BRENDAN WAY
GREENVILLE, SOUTH CAROLINA 29615
(864) 234-3000

0153NCOV.DGN



LEGEND

EXISTING	PROPOSED	
	150	PROPOSED CONTOUR
		PAVED DITCH
		℄ OF DITCH
		ROADWAY
		10' BERM
		TERRACE
		DOWNCOMER PIPE
		GAS HEADER
	W28	GAS WELLS
		BLOWER(S), FLARE(S), [EMISSION POINT(S)]
		CONDENSATE FORCEMAIN
		CONDENSATE GRAVITY DRAIN
		UNDERGROUND CONTROL VALVE
	CK2	CONDENSATE KNOCKOUT
	PS1	PUMP STATION

NOTES

1. LEACHATE RISER PIPES AND CLEANOUTS TO BE FIELD LOCATED.
2. THE EXISTING PASSIVE GAS WELLS WITHIN THE LANDFILL ARE NOT SHOWN ON THE DRAWING AND WILL ULTIMATELY BE ABANDONED.
3. LANDFILL GAS MANAGEMENT SYSTEM ALIGNMENT, LOCATION, DETAILS AND NUMBER AND LOCATIONS OF EXTRACTION WELLS MAY CHANGE DUE TO SITE CONDITIONS AT THE TIME OF CONSTRUCTION.
4. LOCATION AND INSTALLATION OF THE PROPOSED GAS EXTRACTION WELLS, HEADER AND LATERAL ALIGNMENT, AND LIQUID MANAGEMENT FACILITIES MAY VARY TO ACCOMODATE LANDFILL FIELD SLOPE.
5. MINIMUM ACCEPTABLE COLLECTION HEADER AND LATERAL PIPELINE SLOPE IS THREE PERCENT (3%) WHEN LOCATED IN WASTE DISPOSAL AREAS.
6. MINIMUM ACCEPTABLE COLLECTION HEADER AND LATERAL PIPELINE SLOPE IS ONE PERCENT (1%) WHEN LOCATED OUT OF WASTE DISPOSAL AREAS.

REV	DATE	DESCRIPTION	DES BY	APP BY

PROJECT NO 40153
DATE NOVEMBER 1996

DES BY	SAT	11/18/96
DRN BY	RBH	11/18/96
CHK BY	MSN	11/18/96
APP BY	[illegible]	11/18/96

TRAIL RIDGE LANDFILL - PERMIT RENEWAL
FOR
TRAIL RIDGE LANDFILL, INC.

GAS MANAGEMENT PLAN

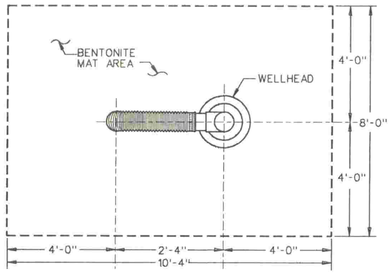
PREPARED BY:
RUST ENVIRONMENT & INFRASTRUCTURE

[illegible] 11/18/96

Trail Ridge Landfill , Inc.

SHEET 1 OF 6
DRAWING NO
P1

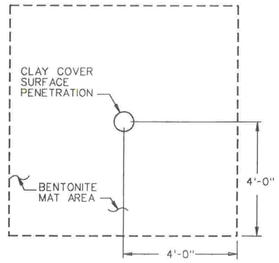
0153P1GS.DGN



1/P2 TYPICAL WELLHEAD WITH BENTONITE MAT

NOTES:

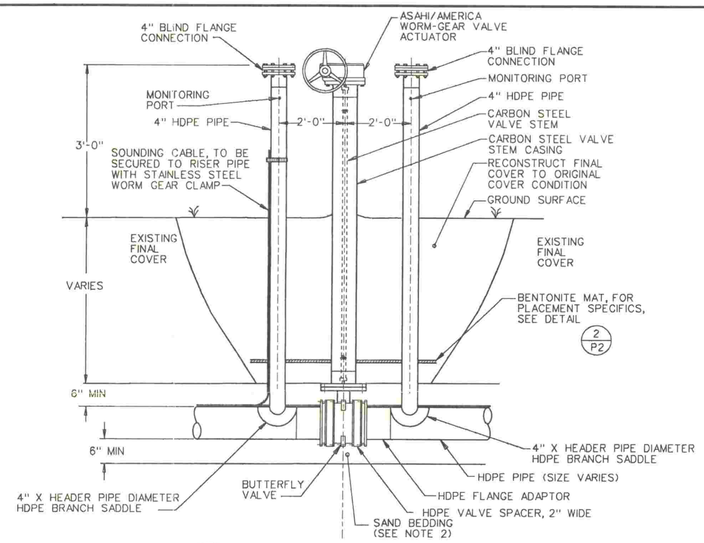
1. BENTONITE MAT IS TO BE INSTALLED WITH THE THICKER (NON-WOVEN) SIDE DOWN, AND THE THINNER (WOVEN) SIDE UP
2. CONTRACTOR SHALL THOROUGHLY COVER ANY CUT MADE TO THE BENTONITE MAT WITH BENTONITE CHIPS.
3. BENTONITE MAT AND BENTONITE CHIPS SHALL BE WATER SATURATED PRIOR TO BACKFILLING.



2/P2 TYPICAL BENTONITE SURFACE SEAL

NOTES:

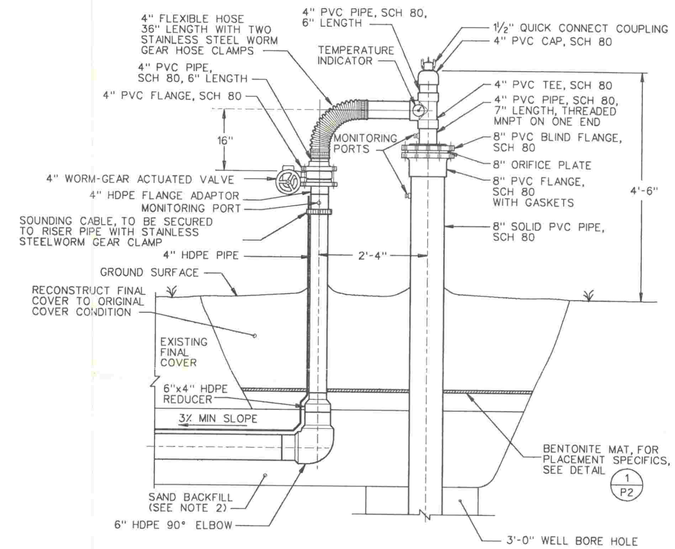
1. BENTONITE MAT IS TO BE INSTALLED WITH THE THICKER (NON-WOVEN) SIDE DOWN, AND THE THINNER (WOVEN) SIDE UP
2. CONTRACTOR SHALL THOROUGHLY COVER ANY CUT MADE TO THE BENTONITE MAT WITH BENTONITE CHIPS.
3. BENTONITE MAT AND BENTONITE CHIPS SHALL BE WATER SATURATED PRIOR TO BACKFILLING.



3/P2 UNDERGROUND CONTROL VALVE

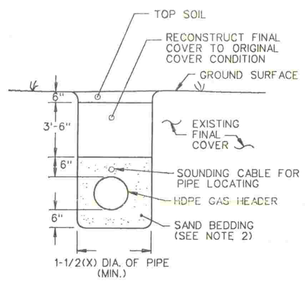
NOTES:

1. VALVE TO BE CYCLED BEFORE BACKFILLING AND INSTALLED CLOSED.

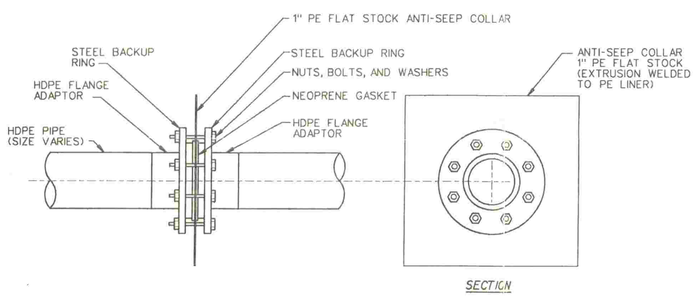


HDPE GAS COLLECTION HEADER, 3.0 PERCENT MINIMUM SLOPE IN REFUSE, DEPTH WILL VARY TO MEET SLOPE CRITERIA.

4/P2 GAS EXTRACTION WELLHEAD ASSEMBLY



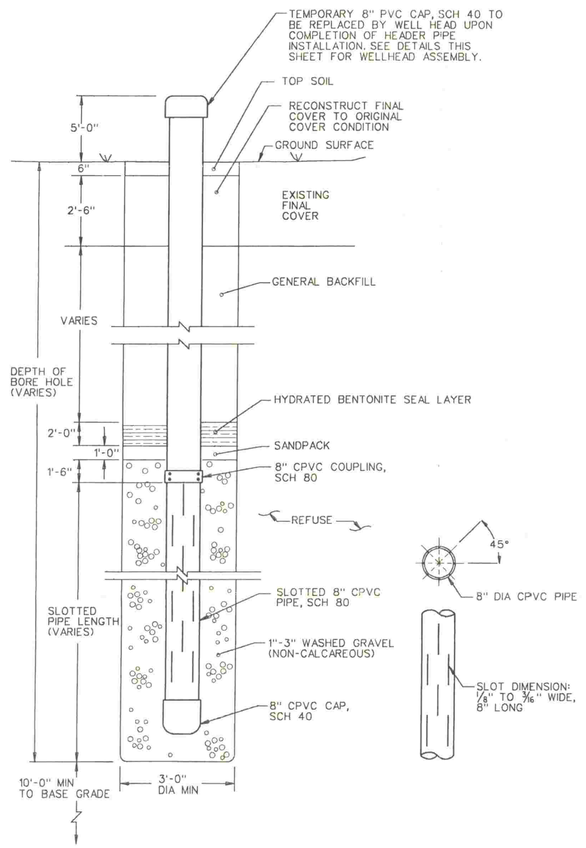
5/P2 TYPICAL HEADER / LATERAL TRENCH



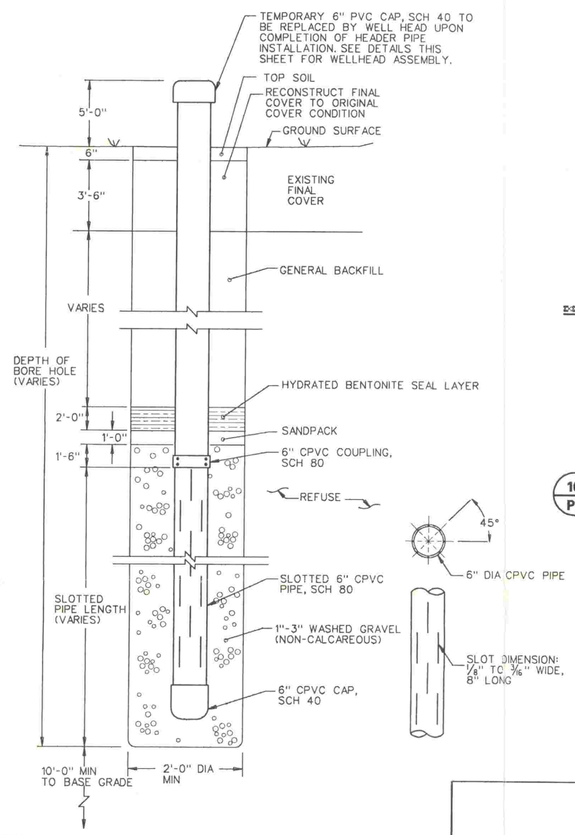
6/P2 ANTI-SEEP COLLAR

NOTE:

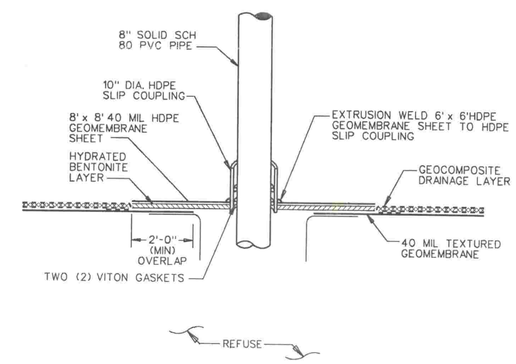
1. ANTI-SEEP COLLAR IS TO BE LOCATED AT ALL POINTS WHERE THE PIPELINE EXITS THE LIMITS OF REFUSE AND WILL BE FIELD LOCATED. THE CLAY SURROUNDING THE ANTI-SEEP COLLAR WILL BE HAND COMPACTED TO ADEQUATELY TIE INTO THE EXISTING FINAL COVER SYSTEM . A MINIMUM OF ONE FOOT OUTSIDE OF ALL EDGES IS RECOMMENDED.



7/P2 GAS EXTRACTION WELL



8/P2 TEMPORARY GAS EXTRACTION WELL



10/P2 GEOSYNTHETIC CAP PENETRATION CONNECTION

NOTES

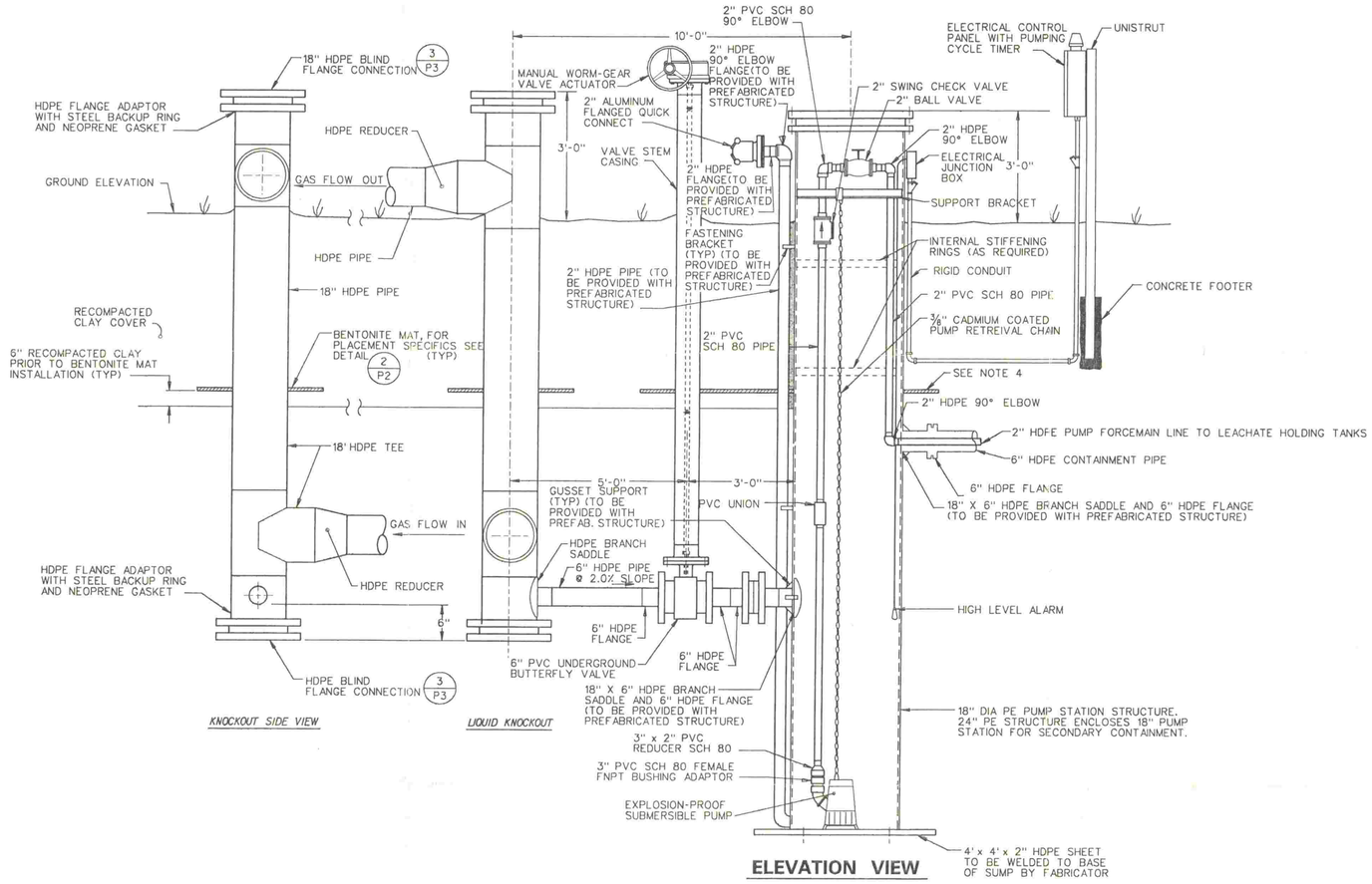
1. CLEAN BACKFILL SHALL BE COMPACTED IN MAXIMUM LIFTS OF 9". SAND BEDDING FOR HEADER PIPE SHALL BE COMPACTED 6" BELOW THE PIPE AND MOUNDED 6" ABOVE THE PIPE.
2. LANDFILL GAS MANAGEMENT SYSTEM DETAILS AND DIMENSIONS MAY CHANGE DUE TO SITE CONDITIONS AT THE TIME OF CONSTRUCTION.
3. ALL DIMENSIONS ARE APPROXIMATE

REV	DATE	DESCRIPTION	DES BY	APP BY

PROJECT NO 40153		TRAIL RIDGE LANDFILL - PERMIT RENEWAL FOR TRAIL RIDGE LANDFILL, INC.
DATE NOVEMBER 1996		
DES BY	11/28/96	LANDFILL GAS MANAGEMENT SYSTEM DETAILS
DRN BY	11/18/96	
CHK BY	11/18/96	
APP BY	11/18/96	
Trail Ridge Landfill, Inc.		SHEET 2 OF 6 — DRAWING NO P2

PREPARED BY: RUST ENVIRONMENT & INFRASTRUCTURE

0153P2GS.DGN

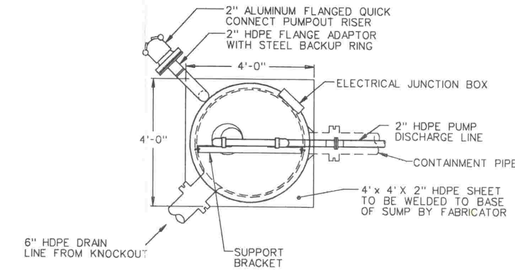


ELEVATION VIEW

1/P3 LIQUID KNOCKOUT AND PUMP STATION CONCEPTUAL DETAIL

NOTES:

1. PUMP STATION INLETS SHOWN OUT OF ORIENTATION FOR DETAIL CLARITY.
2. CONDENSATE PUMP STATIONS SHALL BE DOUBLE CONTAINED WITHIN A 18" PE PIPE.
3. INSTEAD OF TYING INTO THE PUMP STATION AS SHOWN ON THIS DETAIL, THE KNOCKOUT MAY TIE INTO A CONDENSATE DRIP LEG AS SHOWN ON DETAIL 5 OF THIS SHEET.
4. BENTONITE MAT NOT REQUIRED OUTSIDE OF LINED AREA.

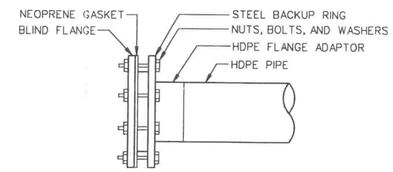


PLAN VIEW

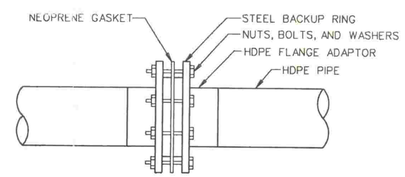
2/P3 PUMP STATION

NOTE:

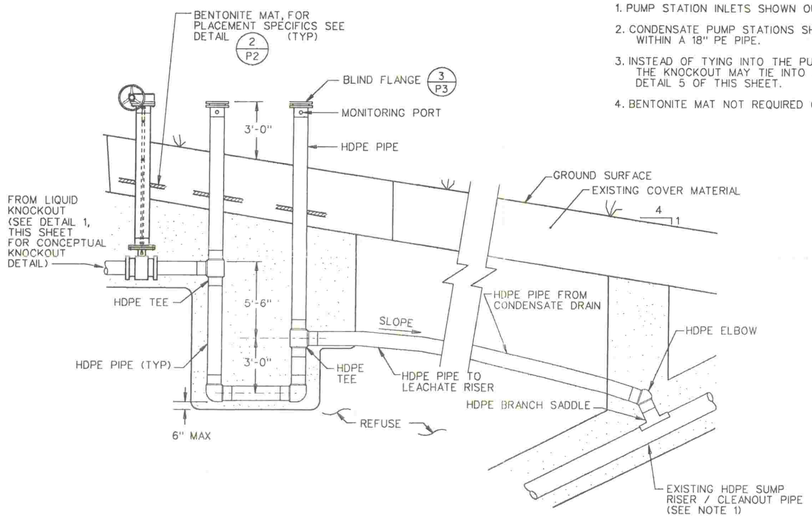
1. ACTUAL INLET ORIENTATION WILL BE DETERMINED DURING VESSEL FABRICATION AT TIME OF CONSTRUCTION.



3/P3 BLIND FLANGE (TYP)



4/P3 FLANGE CONNECTION (TYP)

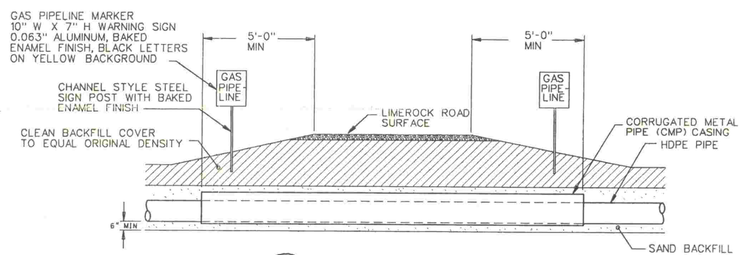


5/P3 CONDENSATE DRIPLEG DL-3

NTS

NOTES

1. CK-1 AND CK-2 WILL CONNECT TO PRIMARY HDPE SUMP RISER PIPE
   CK-3 AND CK-4 WILL CONNECT TO HDPE CLEANOUT RISER PIPE



6/P3 TYPICAL HEADER CASING

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR ROADWAY REPAIR TO ORIGINAL CONDITION AFTER CONSTRUCTION.

   IN AREAS WHERE ROAD CASING IS REQUIRED, USE 16 GAUGE X 2-2/3" X 1/2" GALVANIZED CMP CASING TWO PIPE SIZES LARGER THAN HEADER PIPE.

NOTES

1. LANDFILL GAS AND LEACHATE SYSTEM DETAILS ARE CONCEPTUAL AND MAY CHANGE DUE TO SITE CONDITIONS AT THE TIME OF CONSTRUCTION.
2. ONLY ONE PUMP STATION IS REQUIRED IN PLANS. THE PUMP STATION IS LOCATED OUTSIDE OF THE LINED AREA BEFORE THE FLARE STATION (SEE SHEET P1)

REV	DATE	DESCRIPTION	DES BY	APP BY

PREPARED BY: RUST ENVIRONMENT & INFRASTRUCTURE

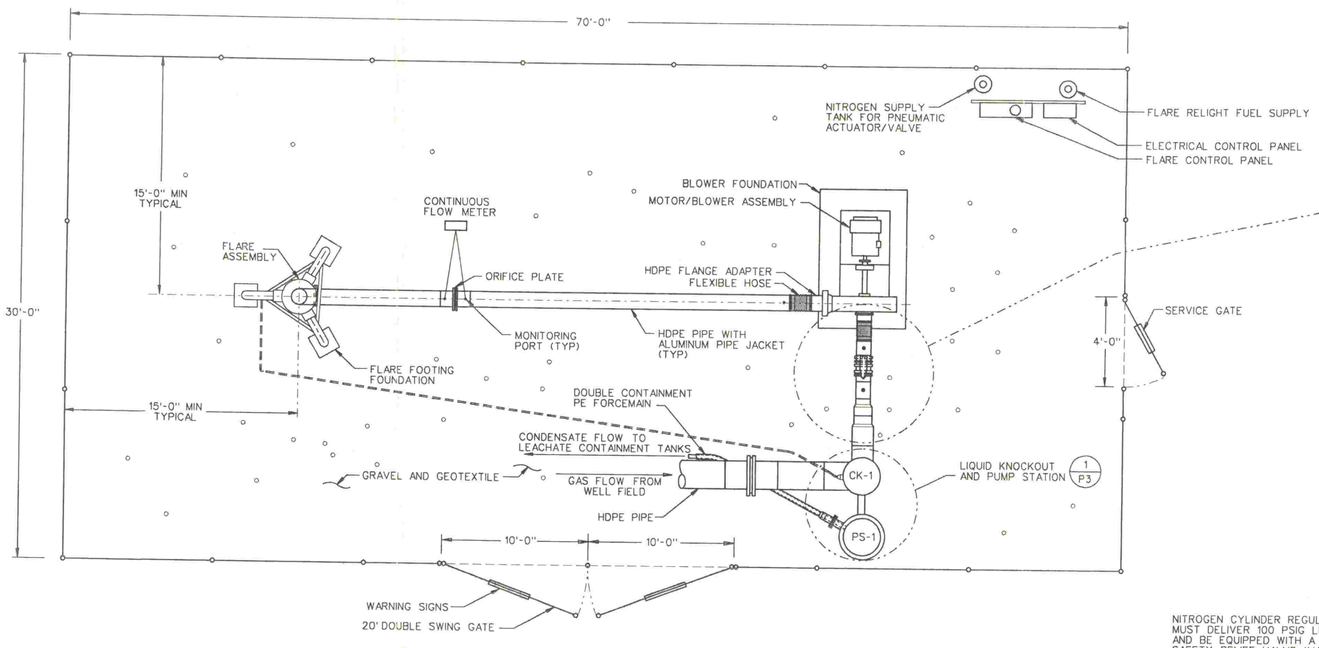
PROJECT NO	40153	TRAIL RIDGE LANDFILL - PERMIT RENEWAL FOR TRAIL RIDGE LANDFILL, INC.
DATE	NOVEMBER 1996	
DES BY	SKS 11/18/96	LANDFILL GAS / CONDENSATE MANAGEMENT SYSTEM DETAILS
DRN BY	RBH 11/18/96	
CHK BY	MSN 11/18/96	
APP BY	11/18/96	

Trail Ridge Landfill, Inc.

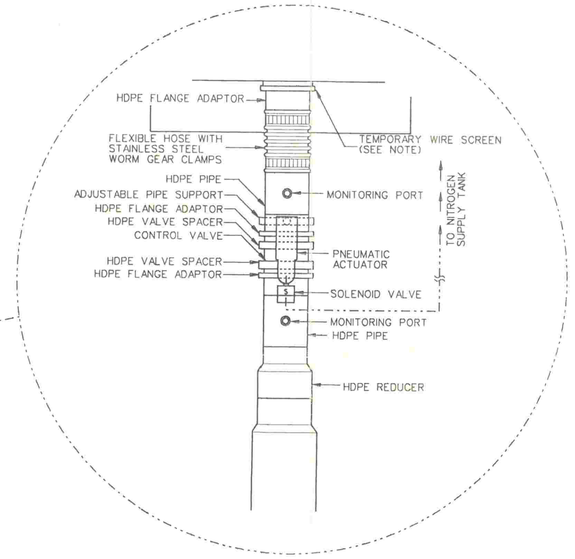
SHEET 3 OF 6

DRAWING NO P3

0153P3GS.DGN

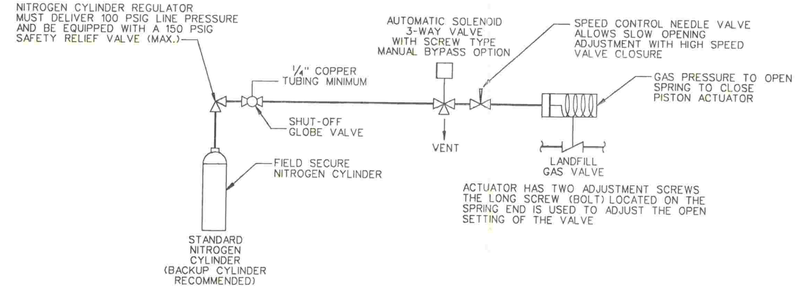


PLAN



BLOW UP OF BLOWER INLET CONNECTION

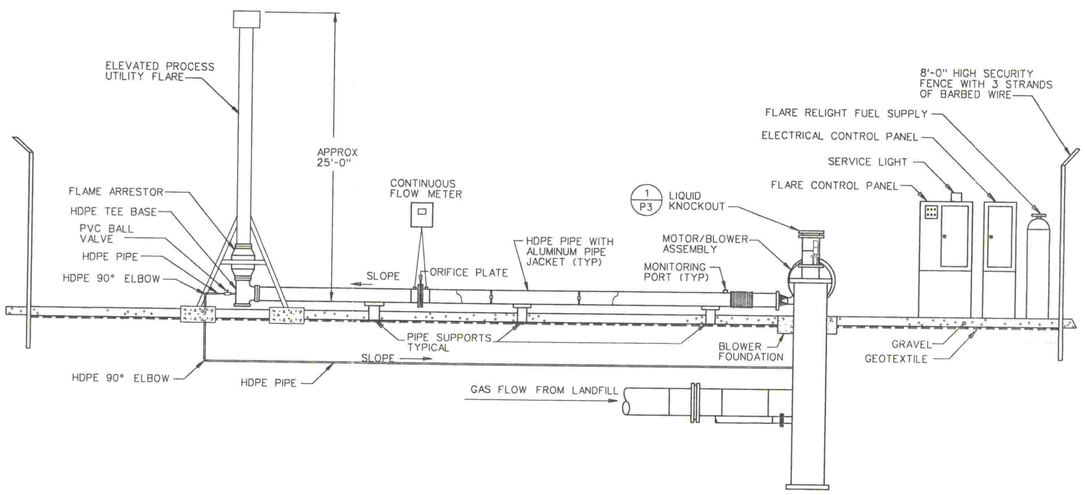
NOTE:
CONTRACTOR SHALL INSTALL WIRE SCREEN BEFORE START UP TO PREVENT DEBRIS FROM ENTERING INTO BLOWER. SCREEN WILL BE REMOVED AT A LATER DATE BY SITE LANDFILL GAS WELL TECHNICIAN.



2/P4 PNEUMATIC ACTUATOR SYSTEM DETAIL

NOTES:

1. SOLENOID VALVE MAY BE FACTORY MOUNTED ON ACTUATOR.
2. SOLENOID VALVE HAS 1/4" NPT SPEED CONTROL VALVE MOUNTED ON ACTUATOR MOUNT (1/4" OR 3/8" NPT DEPENDING ON ACTUATOR SIZE).
3. SOLENOID VALVE REQUIRES 110V POWER TO ENERGIZE (PRESSURE ON ACTUATOR).
4. CONTRACTOR TO PROVIDE ALL TUBING, TEES, FITTINGS AND ALL CONDUIT, WIRE, ETC. FOR PNUEMATIC ACTUATOR SYSTEM INSTALLATION.



PROFILE

1/P4 BLOWER / FLARE STATION

NOTE: PROPOSED FLARE STATION LAYOUT MAY VARY BASED ON FIELD CONDITIONS ENCOUNTERED.

REV	DATE	DESCRIPTION	DES BY	APP BY

PROJECT NO 40153		TRAIL RIDGE LANDFILL - PERMIT RENEWAL FOR TRAIL RIDGE LANDFILL, INC.
DATE NOVEMBER 1996		
DES BY	11/18/96	FLARE STATION DETAILS
DRN BY	11/18/96	
CHK BY	11/18/96	
APP BY	11/18/96	

PREPARED BY:
RUST ENVIRONMENT & INFRASTRUCTURE

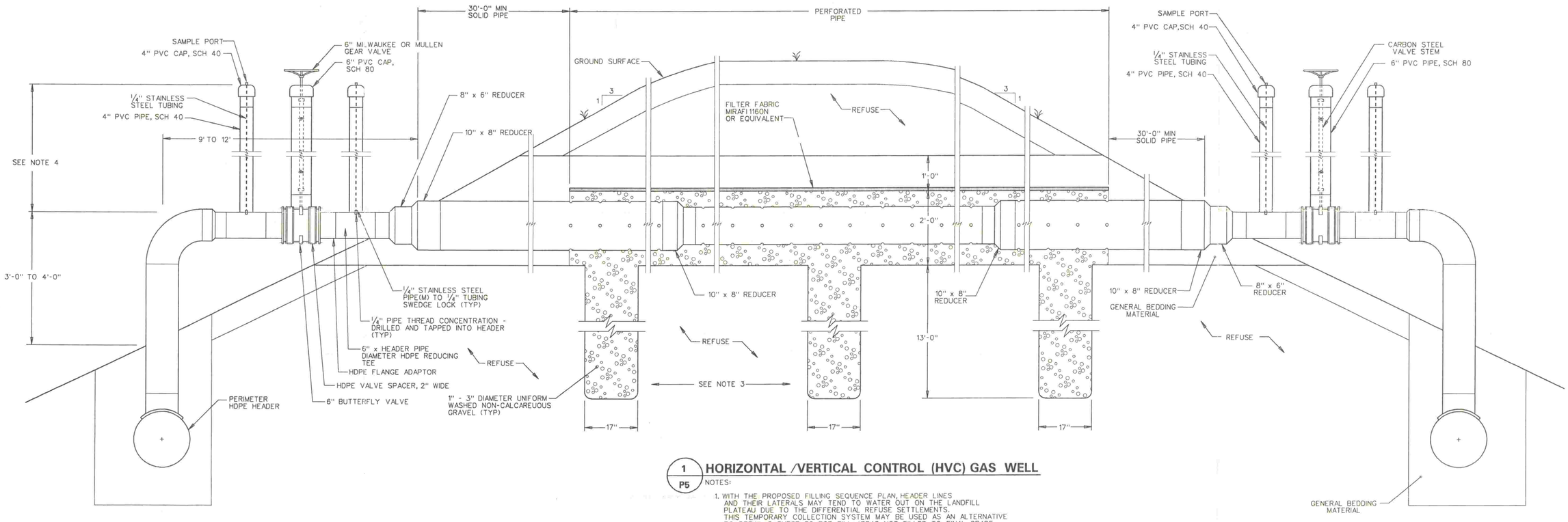
11/18/96

Trail Ridge Landfill, Inc.

SHEET 4 OF 6
DRAWING NO
P4

0153P4GS.DGN

Jan Nov 18 11:33:27 1996 N:\RYEDS\DGFILES\DRAFT\ P4 0153P4GS.DGN



1 / P5 HORIZONTAL /VERTICAL CONTROL (HVC) GAS WELL

NOTES:

1. WITH THE PROPOSED FILLING SEQUENCE PLAN, HEADER LINES AND THEIR LATERALS MAY TEND TO WATER OUT ON THE LANDFILL PLATEAU DUE TO THE DIFFERENTIAL REFUSE SETTLEMENTS. THIS TEMPORARY COLLECTION SYSTEM MAY BE USED AS AN ALTERNATIVE TO DETAIL 8 SHEET P2 FOR FILL AREAS NOT FILLED TO FINAL GRADE.
2. ELEVATION OF SIDE SLOPE VARIES FROM EXPOSED CONTROL VALVE TO BURIED CONTROL VALVE. LENGTH OF SAMPLE PORT AND VALVE EXTENTIONS SHOULD BE ADJUSTED AS APPROPRIATE.
3. VERTICAL BORE SPACING MINIMUM EVERY 50 FEET ALONG PERFORATED PIPE SECTION.
4. VALVE EXTENSION AND SAMPLE PORT RISERS MAY NOT BE NECESSARY IF PIPE IS ABOVE GRADE.

GENERAL NOTES

1. PERFORATED PIPE SIZES SHOULD BE EQUAL IN TOTAL LENGTH. (e.g. 25% - 50% - 25% 10" - 8" - 10"
2. FABRIC TO BE PLACED BETWEEN STONE AND BACKFILL MATERIAL ABOVE PERFORATED PIPE.
3. LENGTH OF PERFORATED PIPE IS SUBJECT TO WASTE DIMENSION AT INSTALLATION ELEVATION.
4. HVC GAS WELLS ARE TO BE INSTALLED AT COMPLETION OF APPROPRIATE REFUSE LIFTS AND SHOULD BE COORDINATED WITH LANDFILLING OPERATIONS.

REV	DATE	DESCRIPTION	DES BY	APP BY

PROJECT NO 40153		TRAIL RIDGE LANDFILL - PERMIT RENEWAL FOR TRAIL RIDGE LANDFILL, INC.
DATE NOVEMBER 1996		
DES BY	11/18/96	CONCEPTUAL GAS COLLECTION SYSTEM DETAILS
DRN BY	11/18/96	
CHK BY	11/18/96	
APP BY	11/18/96	

PREPARED BY: RUST ENVIRONMENT & INFRASTRUCTURE

11/18/96

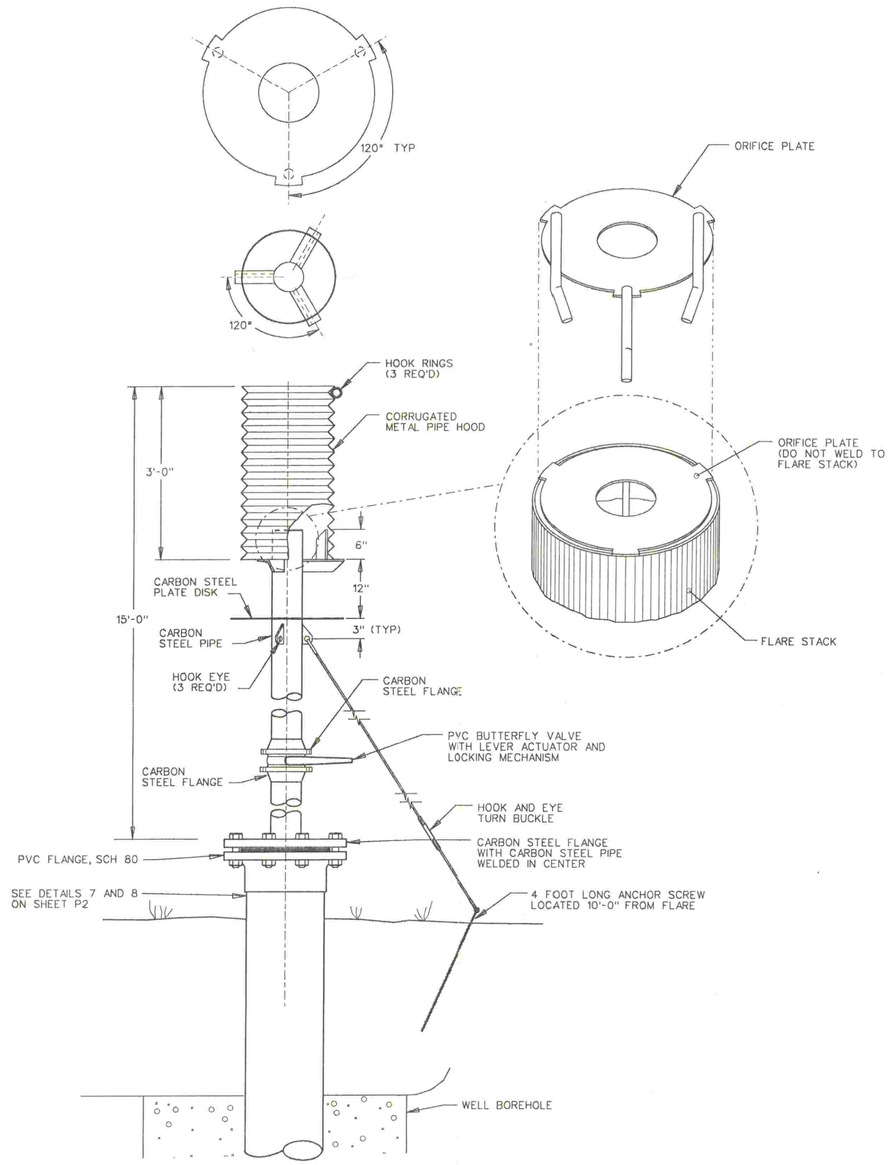
Trail Ridge Landfill, Inc.

SHEET 5 OF 5

DRAWING NO P5

0153P5GS.DGN

Wed Nov 13 15:09:35 1996 N:\BYERS\OCF\MBOND.qcf HALE_B 0153P5GS.PRF



1 / P6 STANDARD PASSIVE FLARE

NOTES:
1. ALL DIMENSIONS ARE APPROXIMATE.
2. PASSIVE FLARES MAY BE INSTALLED OVER PROPOSED AND EXISTING GAS WELLS PRIOR TO START UP OF ACTIVE GAS COLLECTION SYSTEM.

REV	DATE	DESCRIPTION	DES BY	APP BY

PROJECT NO	40153	TRAIL RIDGE LANDFILL - PERMIT RENEWAL FOR TRAIL RIDGE LANDFILL, INC.
DATE	NOVEMBER 1996	
DES BY	DJS	11/18/96
DRN BY	TRB	11/18/96
CHK BY	MSN	11/18/96
APP BY		11/18/96

PASSIVE FLARE DETAIL

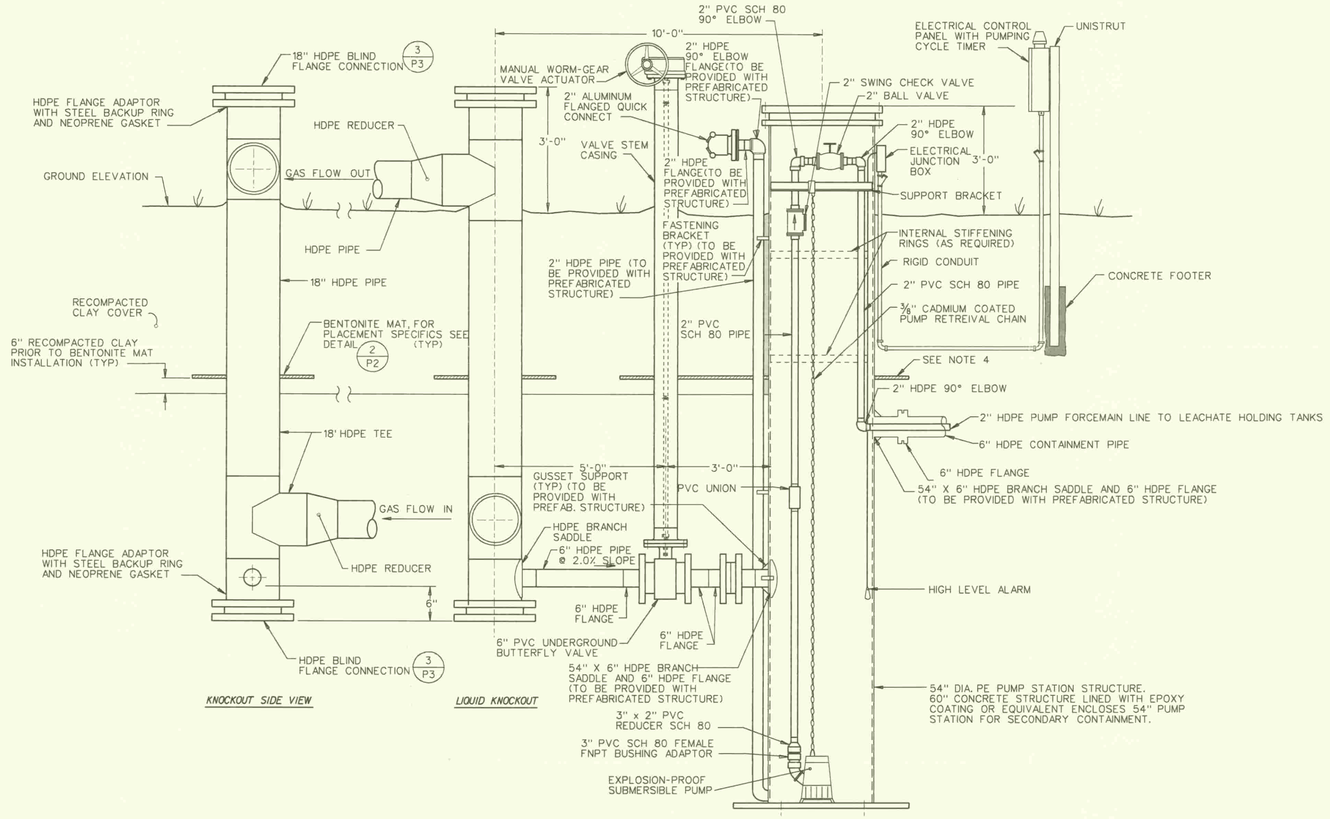
PREPARED BY:
RUST ENVIRONMENT & INFRASTRUCTURE

11/18/96

Trail Ridge Landfill, Inc.

SHEET 6 OF 6
DRAWING NO
P6

0153P6GS.DGN

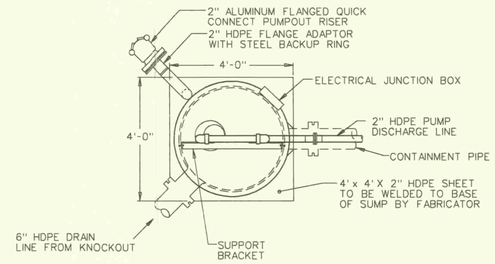


ELEVATION VIEW

1 P3 LIQUID KNOCKOUT AND PUMP STATION CONCEPTUAL DETAIL

NOTES:

1. PUMP STATION INLETS SHOWN OUT OF ORIENTATION FOR DETAIL CLARITY.
2. CONDENSATE PUMP STATIONS SHALL BE DOUBLE CONTAINED WITHIN A 54" PE PIPE.
3. INSTEAD OF TYING INTO THE PUMP STATION AS SHOWN ON THIS DETAIL, THE KNOCKOUT MAY TIE INTO A CONDENSATE DRIP LEG AS SHOWN ON DETAIL 5 OF THIS SHEET.
4. BENTONITE MAT NOT REQUIRED OUTSIDE OF LINED AREA.

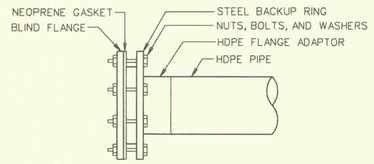


PLAN VIEW

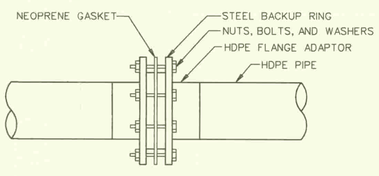
2 P3 PUMP STATION

NOTE:

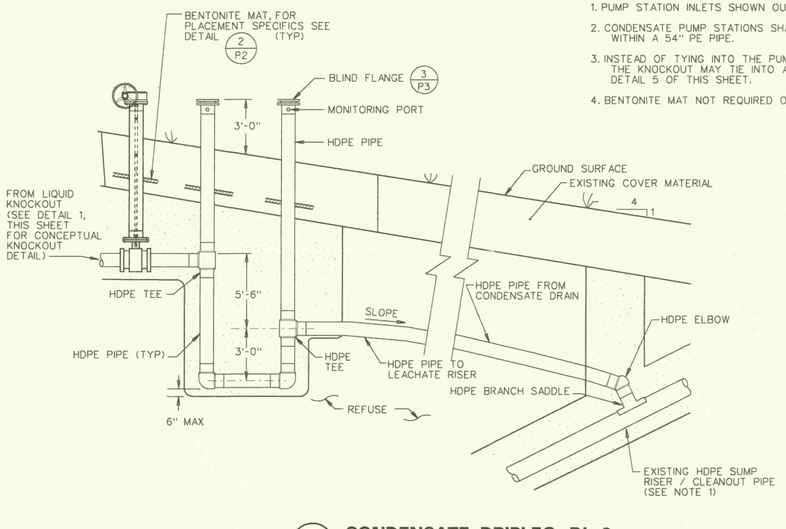
1. ACTUAL INLET ORIENTATION WILL BE DETERMINED DURING VESSEL FABRICATION AT TIME OF CONSTRUCTION.



3 P3 BLIND FLANGE (TYP)



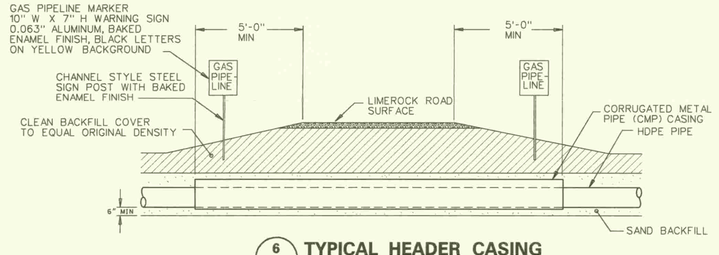
4 P3 FLANGE CONNECTION (TYP)



5 P3 CONDENSATE DRIPLEG DL-3

NOTES

1. CK-2 AND CK-3 WILL CONNECT TO PRIMARY HDPE SUMP RISER PIPE CK-4 AND CK-5 WILL CONNECT TO HDPE CLEANOUT RISER PIPE



6 P3 TYPICAL HEADER CASING

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR ROADWAY REPAIR TO ORIGINAL CONDITION AFTER CONSTRUCTION.

IN AREAS WHERE ROAD CASING IS REQUIRED, USE 16 GAUGE X 2-2/3" X 1/2" GALVANIZED CMP CASING TWO PIPE SIZES LARGER THAN HEADER PIPE.

NOTES

1. LANDFILL GAS AND LEACHATE SYSTEM DETAILS ARE CONCEPTUAL AND MAY CHANGE DUE TO SITE CONDITIONS AT THE TIME OF CONSTRUCTION.
2. ONLY ONE PUMP STATION IS REQUIRED IN PLANS. THE PUMP STATION IS LOCATED OUTSIDE OF THE LINED AREA BEFORE THE FLARE STATION (SEE SHEET P1)

REV	DATE	DESCRIPTION	DES BY	APP BY
1	4/97	REVISED PUMP STATION SIZE AND REVISED DETAIL NOTE 5	GAS	TMY

PROJECT NO	40153	TRAIL RIDGE LANDFILL - PERMIT RENEWAL FOR TRAIL RIDGE LANDFILL, INC.
DATE	NOVEMBER 1996	
DES BY	GAS	11/18/96
DRN BY	RBH	11/18/96
CHK BY	MSN	11/18/96
APP BY	TMY	11/18/96

LANDFILL GAS / CONDENSATE MANAGEMENT SYSTEM DETAILS

PREPARED BY: RUST ENVIRONMENT & INFRASTRUCTURE

Thomas M. Yanasko 4/22/97

Trail Ridge Landfill, Inc.

SHEET 3 OF 6

DRAWING NO **P3**

0153P3GS.DGN

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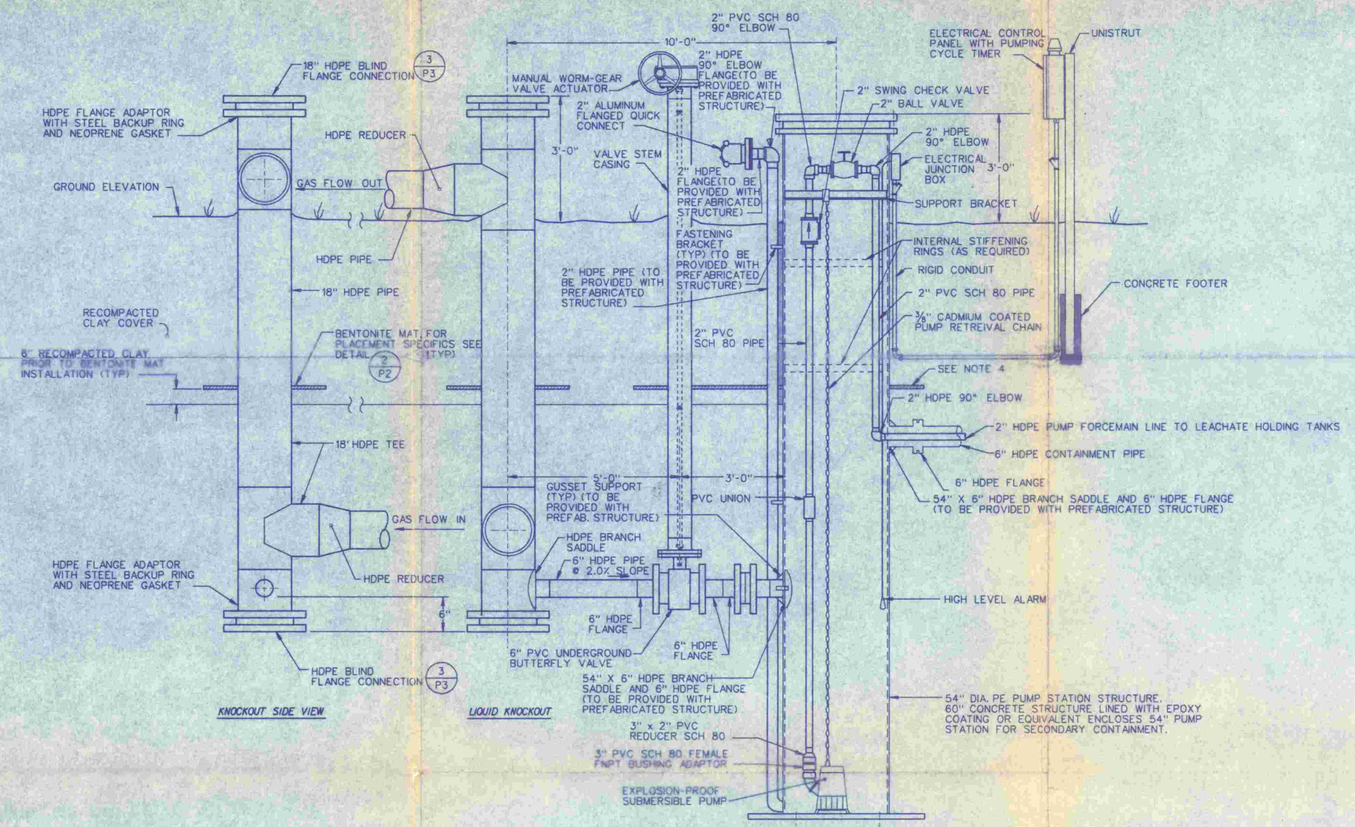

ELEVATION VIEW

1/P3 LIQUID KNOCKOUT AND PUMP STATION CONCEPTUAL DETAIL

NOTES:

1. PUMP STATION INLETS SHOWN OUT OF ORIENTATION FOR DETAIL CLARITY.
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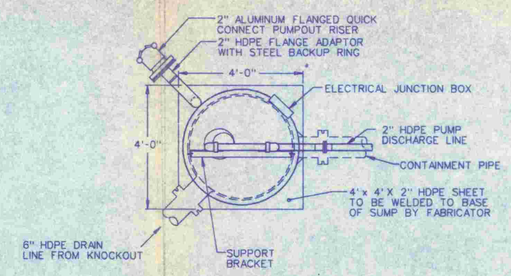
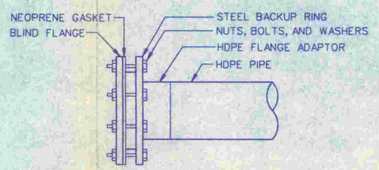


PLAN VIEW

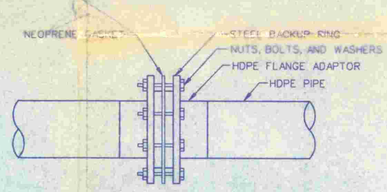
2/P3 PUMP STATION

NOTE:

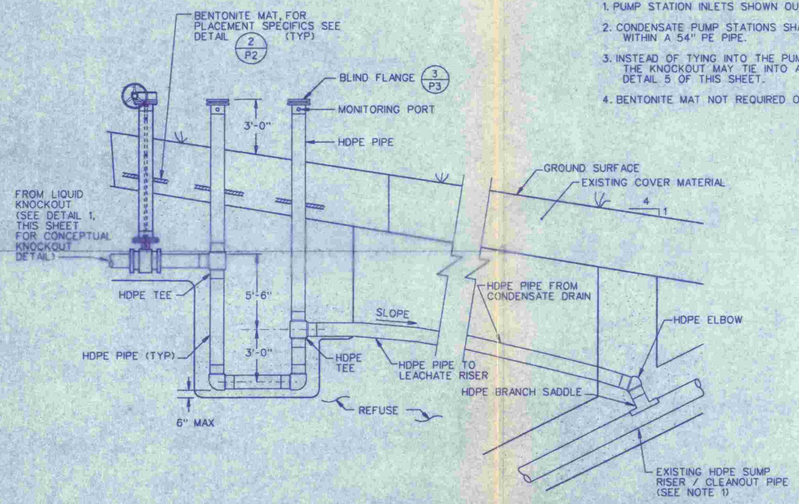
1. ACTUAL INLET ORIENTATION WILL BE DETERMINED DURING VESSEL FABRICATION AT TIME OF CONSTRUCTION.



3/P3 BLIND FLANGE (TYP)



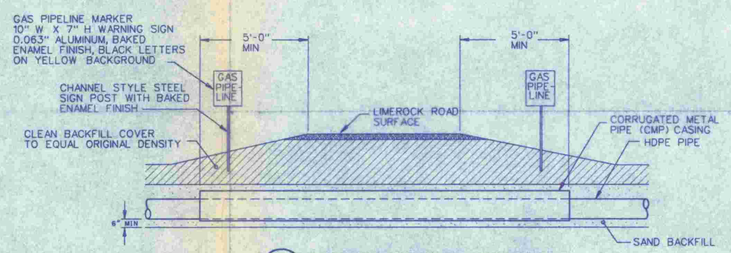
4/P3 FLANGE CONNECTION (TYP)



5/P3 CONDENSATE DRIPLEG DL-3

NOTES

1. CK-2 AND CK-3 WILL CONNECT TO PRIMARY HDPE SUMP RISER PIPE (CK-4 AND CK-5 WILL CONNECT TO HDPE CLEANOUT RISER PIPE



6/P3 TYPICAL HEADER CASING

NOTES:

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England-Thims, Miller, Inc.

APR 24 1997

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REV	DATE	DESCRIPTION	DES BY	APP BY
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TRAIL RIDGE LANDFILL - PERMIT RENEWAL FOR TRAIL RIDGE LANDFILL, INC.

LANDFILL GAS / CONDENSATE MANAGEMENT SYSTEM DETAILS

PREPARED BY: RUST ENVIRONMENT & INFRASTRUCTURE

Thomas M. Yonacek 4/24/97

Trail Ridge Landfill, Inc.

SHEET 3 OF 6

DRAWING NO

P3

0153P3GS.DGN