

**Part III
Attachment III-G
Appendix III-G.1**

LANDFILL GAS MANAGEMENT PLAN FIGURES

**Pescadito Environmental Resource Center
MSW No. 2374
Webb County, Texas**

PESCADITO
ENVIRONMENTAL RESOURCE CENTER

**Initial Submittal March 2015
Revised September 2015**

**Prepared for:
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**Prepared by:
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9-18-2015

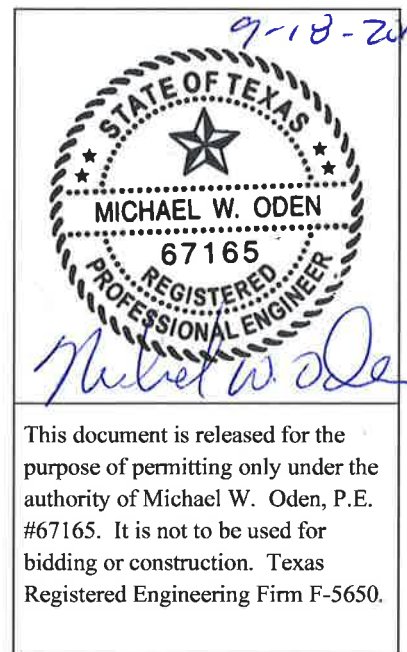
Michael W. Oden

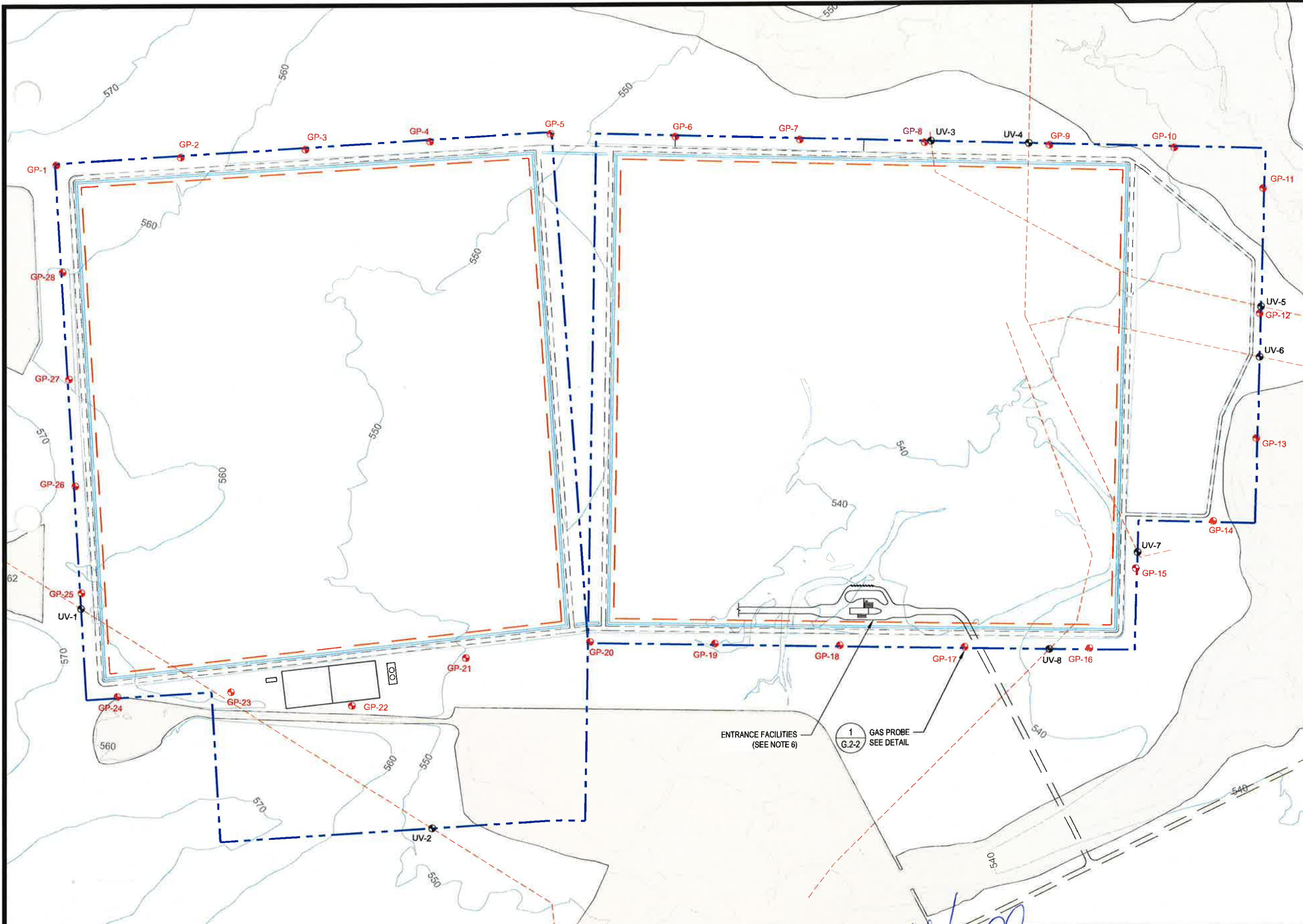
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The image shows a circular professional engineer seal for Michael W. Oden, State of Texas, registration number 67165. The seal includes a star in the center and the text "STATE OF TEXAS" and "REGISTERED PROFESSIONAL ENGINEER". A handwritten signature "Michael W. Oden" is written across the bottom of the seal. Above the seal, the date "9-18-2015" is handwritten. Below the seal, a disclaimer states: "This document is released for the purpose of permitting only under the authority of Michael W. Oden, P.E. #67165. It is not to be used for bidding or construction. Texas Registered Engineering Firm F-5650."

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LEGEND

- PERMIT BOUNDARY
- WASTE UNIT BOUNDARY
- PERIMETER DITCH
- PERIMETER ACCESS ROAD
- PIPELINE EASEMENT CENTERLINE
- GP-1 GAS PROBE LOCATION
- UV-1 UTILITY VENT LOCATION
- CLOMR 100-YEAR FLOODPLAIN

NOTES

1. EXISTING CONTOURS DEVELOPED FROM SITE AERIAL TOPOGRAPHIC SURVEY BY DALLAS AERIAL SURVEYS ON FEBRUARY 15, 2010.
2. FOR CLARITY, NOT ALL SITE FEATURES MAY BE SHOWN.
3. THE NEED FOR FLEXIBILITY TO ACCOMMODATE ADJUSTMENTS AND MODIFICATIONS IS ANTICIPATED CONSIDERING THE SIZE, COMPLEXITY, AND LIFE OF THE PROJECT.
4. FOR UTILITY VENT SEE DETAIL 2 OF DRAWING G.2-2. UTILITY VENTS TO BE INSTALLED AT PROPERTY LINE WHEN WASTE IS WITHIN 1,000 FEET, UNLESS PIPELINE HAS BEEN ABANDONED AND REMOVED.
5. GAS PROBES WILL BE INSTALLED AS CELLS ARE CONSTRUCTED SO THAT A PROBE EXISTS AT LEAST 1000 FEET FROM WASTE.
6. SCALE HOUSE TO HAVE PERMANENT MONITOR.

REV. NO.	DATE	DESCRIPTION

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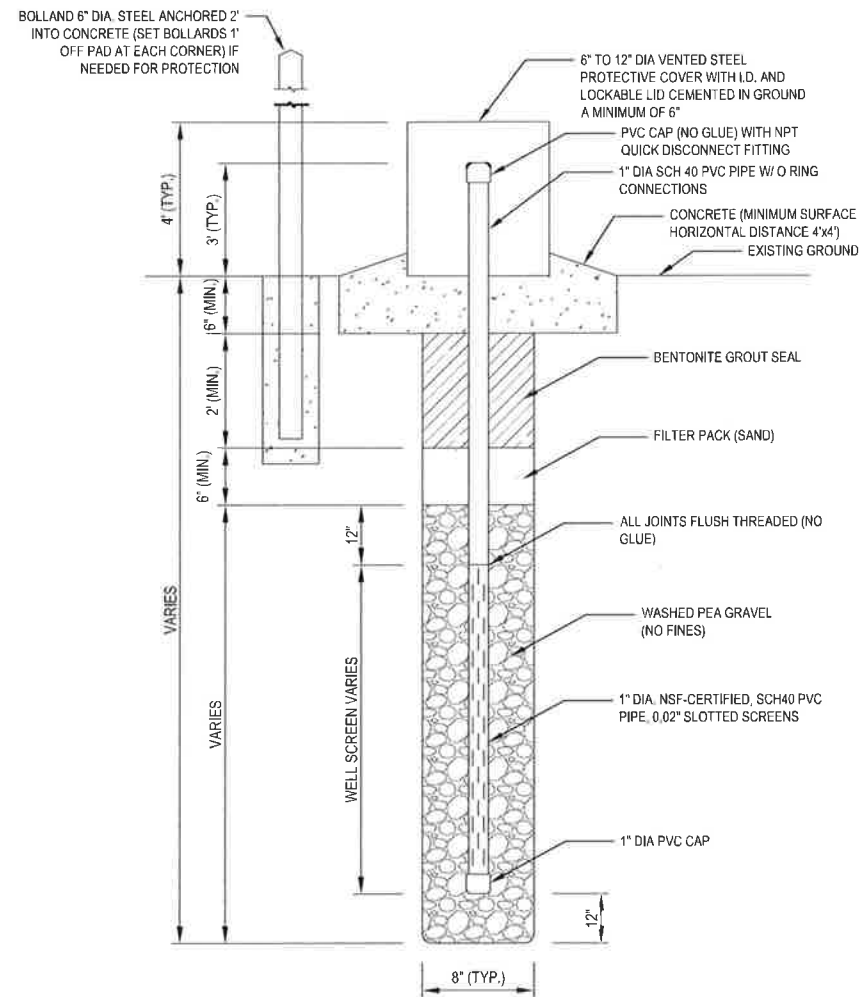


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3-2-2015

**PESCADITO ENVIRONMENTAL RESOURCE CENTER
WEBB COUNTY, TEXAS
MSW 2374**

LANDFILL GAS MONITORING PLAN

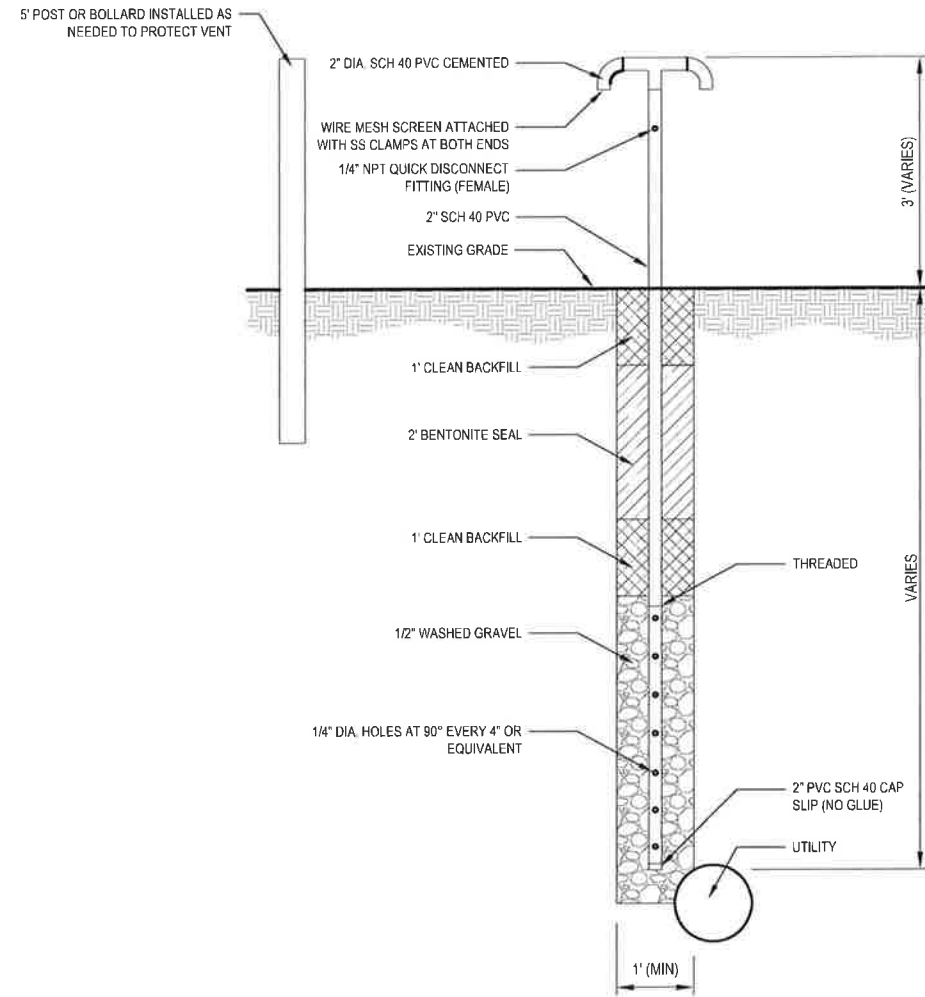
PROJ. NO.:	148866	DATE:	MARCH 2015
DESIGNED BY:	-	DRAWING NO.:	III
DRAWN BY:	MTE		G.1-1
CHECKED BY:	RDS		1 OF 2 SHEETS
APPROVED BY:	MWO		



1
G.2-2
PROBE DETAIL
NOT TO SCALE

NOTES:

- FOR EACH PROBE LOCATION, FOUR PROTECTIVE BARRIER PIPES (BOLLARD) MAY BE USED IF NEEDED FOR PROTECTION. THE PROTECTIVE PIPES WILL BE 6" IN DIAMETER AND SET 2' INTO CONCRETE.
- CONSTRUCTION SPECIFICATIONS MAY VARY BASED ON FIELD DATA AND OBSERVATIONS DURING INSTALLATION OF PROBES.



2
G.2-2
UTILITY VENT
NOT TO SCALE

NOTES:

- LOCATE UTILITY PRIOR TO INSTALLATION.
- MAKE SURE GRAVEL PACK IS IN CONTACT WITH UTILITY.
- OBTAIN APPROVAL FROM UTILITY/OWNER PRIOR TO INSTALLATION.

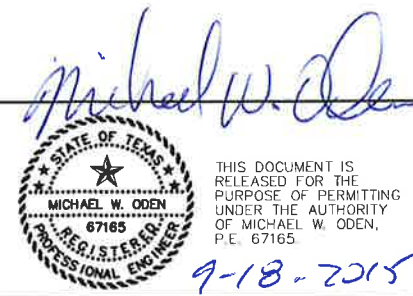
GAS PROBE AND UTILITY VENT SUMMARY TABLE

Name	Northing	Easting	Ground Surface Elevation (ft MSL)	Depth to Liner (ft)
GP-1	17099182.79	773929.40	567.17	109.17
GP-2	17098196.04	773767.14	562.01	104.65
GP-3	17097209.30	773604.87	556.65	100.66
GP-4	17096222.61	773442.24	553.36	98.73
GP-5	17095268.11	773286.09	550.78	98.84
GP-6	17094299.16	773037.50	548.85	101.13
GP-7	17093330.28	772788.08	547.49	102.75
GP-8	17092362.10	772539.66	545.38	103.61
GP-9	17091393.36	772291.60	542.95	104.16
GP-10	17090424.53	772042.41	539.95	101.95
GP-11	17089802.46	771563.46	535.98	97.98
GP-12	17090053.48	770595.48	537.19	98.66
GP-13	17090304.50	769627.49	533.20	84.00
GP-14	17090792.82	769061.52	536.03	96.39
GP-15	17091478.20	768831.38	537.66	97.76
GP-16	17091984.47	768293.13	537.94	97.94
GP-17	17092955.54	768531.90	542.05	99.95
GP-18	17093926.62	768770.66	541.26	96.76
GP-19	17094897.70	769009.43	540.00	93.11
GP-20	17095868.77	769248.20	543.89	93.93
GP-21	17096863.74	769346.88	549.18	96.24
GP-22	17097838.72	769179.56	558.01	103.19
GP-23	17098758.79	769504.46	557.76	100.97
GP-24	17099647.68	769668.70	561.02	103.02
GP-25	17099744.84	770543.72	560.85	102.85
GP-26	17099604.33	771390.13	567.17	109.17
GP-27	17099463.81	772236.55	559.13	101.13
GP-28	17099323.30	773082.97	559.95	101.95
UV-1	17098775.36	770420.96	561.07	-
UV-2	17097428.98	768078.20	548.94	-
UV-3	17092309.92	772538.52	545.27	-
UV-4	17091552.80	772343.96	543.42	-
UV-5	17090030.26	770645.16	537.37	-
UV-6	17090131.46	770254.93	536.00	-
UV-7	17091436.21	768954.59	537.61	-
UV-8	17092297.69	768359.84	538.94	-

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1	9/2015	NOD 1



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**PESCADITO ENVIRONMENTAL RESOURCE CENTER
WEBB COUNTY, TEXAS
MSW 2374**

TYPICAL GAS PROBE AND UTILITY VENT

PROJ. NO.:	148866	DATE:	APRIL 2015
DESIGNED BY:	-	DRAWING NO.:	III
DRAWN BY:	MTE		G.1-2
CHECKED BY:	RDS		2 OF 2 SHEETS
APPROVED BY:	MWO		