

STRATEGIC PETROLEUM RESERVE

ENGINEERING CHANGE PROPOSAL

SUMMARY SHEET

CLASS I CHANGE

WR #

ECP NUMBER SJ-M10-4654	TITLE Sugarland Terminal VCU Installation																		
BUDGET SOURCE <input type="checkbox"/> SPR BLI <input type="checkbox"/> CONTRACTOR BASELINE <input type="checkbox"/> BCR <input type="checkbox"/> OTHER	AUTHORITY <input checked="" type="checkbox"/> PCCB <input type="checkbox"/> ECC		TOTAL ESTIMATED COST OF CHANGE <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">FY 06</th> <th style="text-align: center;">FY</th> <th style="text-align: center;">FY</th> </tr> </thead> <tbody> <tr> <td>DESIGN</td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> </tr> <tr> <td>CONSTRUCTION/M&O</td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> </tr> <tr> <td>TOTAL</td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> <td style="text-align: center;">—</td> </tr> </tbody> </table>		FY 06	FY	FY	DESIGN	—	—	—	CONSTRUCTION/M&O	—	—	—	TOTAL	—	—	—
		FY 06		FY	FY														
DESIGN	—	—	—																
CONSTRUCTION/M&O	—	—	—																
TOTAL	—	—	—																
SCHEDULE <input type="checkbox"/> YES MILESTONE NUMBER CMCR NUMBER <input type="checkbox"/> NO																			

PCCB / ECC SIGNATURES	DISPOSITION			COMMENTS CONDITIONS / LIMITATIONS
	C O N C U R	N C O O N N C U R	D A T E	
DOE SENIOR SITE OFFICIAL				
APM TECHNICAL ASSURANCE <i>[Signature]</i>	✓		1/2/12	
APM SYSTEMS AND PROJECTS <i>[Signature]</i>	✓		1/2/12	
APM MAINTENANCE AND OPERATIONS <i>[Signature]</i>	NM		1/12/12	
DEPUTY PROJECT MANAGER <i>[Signature]</i> APM Management Ann Admin.	✓		1/12/12	
DOE CMO				
PROJECT MANAGER				
DEPUTY ASSISTANT SECRETARY -SPR				

PCCB / ECC ACTION

<input checked="" type="checkbox"/> FULL APPROVAL	<input type="checkbox"/> CONDITIONAL / LIMITED APPROVAL	<input type="checkbox"/> DISAPPROVAL
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NUMBER: SJ- M10-4654
TITLE: Sugarland Terminal VCU Installation

EXECUTIVE SUMMARY:

Buisness opportunity exists to load barges at higher volumes than currently allowed by the facilities air permit, which has been expanded as far as possible with the State of Louisiana. Installation of a Vapor Combustion Unit (VCU) will allow loading of an unlimited number of barrels at the facility removing the current restrictions on volumes.

Upon early termination or expiration of the current lease, Shell would have the rights to remove the Combustion Unit from the property leaving the associated piping and facilites on Dock #1.

IMPLEMENTATION PLAN:

Installation of VCU to be completed by Shell Distribution's Project Engineering Group following industry and company standards and processes. Project design to be completed by Worley Parson's Engineering and Lanier and Associates. Contractors will be selected by bidding process, but must meet Shell's stringent safety requirements before being allowed to bid. A databook will be created for the project which will include detailed documentation of the project design, equipment installed and applicable drawings and specifications followed.

IMPLEMENTATION COST:

DESIGN: 1M
CONSTRUCTION: 6M

TOTAL: 7M – project to be paid for by Shell

LIFE CYCLE COST:

IMPACT SUMMARY:

LEVEL I, II, III CRITERIA:

CONTRACT COMPLETION DATES:

**CODES, REGULATIONS,
PERMITS, ETC.:**

GFE:

**SAFETY, ENVIRONMENTAL, FIRE
PROTECTION SYSTEMS, SECURITY:**

SCHEDULES:

STRATEGIC PETROLEUM RESERVE

WR #

ENGINEERING CHANGE PROPOSAL

ECP NUMBER SJ-M10-4654	ECP TITLE Sugarland Terminal VCU Installation		PAGE 1 OF 6			
CONTRACTOR CHANGE NO./REV.	INITIATED BY Nicholas Stone	DATE 11/11/11	SUBMITTED BY Ben Faulkner			
PRIORITY <input type="checkbox"/> EMERGENCY <input type="checkbox"/> URGENT <input checked="" type="checkbox"/> ROUTINE	ORG./CONTRACTOR Shell Pipeline Co.	PHONE NO. 504-728-3574	ORG./CONTRACTOR Shell Pipeline Co.			
<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; border: none;"> VALUE ENGINEERING <input type="checkbox"/> VEP (MANDATORY) <input type="checkbox"/> VECP (VOLUNTARY) </td> <td style="width: 33%; border: none;"> DRAWDOWN CRITICAL <input type="checkbox"/> YES <input type="checkbox"/> NO </td> <td style="width: 34%; border: none;"> ROM ESTIMATE _____ </td> </tr> </table>				VALUE ENGINEERING <input type="checkbox"/> VEP (MANDATORY) <input type="checkbox"/> VECP (VOLUNTARY)	DRAWDOWN CRITICAL <input type="checkbox"/> YES <input type="checkbox"/> NO	ROM ESTIMATE _____
VALUE ENGINEERING <input type="checkbox"/> VEP (MANDATORY) <input type="checkbox"/> VECP (VOLUNTARY)	DRAWDOWN CRITICAL <input type="checkbox"/> YES <input type="checkbox"/> NO	ROM ESTIMATE _____				

DESCRIPTION:
PROBLEM / EXISTING CONFIGURATION:
 Environmental air permit limitations place restrictions on the volume of barrels that can be loaded onto barges and/or ships at the facility uncontrolled.

PROPOSED SOLUTION / ENHANCEMENT:
 Installation of a Vapor Combustion Unit (VCU) would allow for unlimited volumes to be loaded onto barges and/or ships on Dock #1. Project includes:

- Installation of a Vapor Combustion Unit located at the Sugarland Facility
- Installation of a Safety Device Skid, located on Dock #1, to monitor and regulate the system as required by USCG regulations
- Installation of 12" vapor pipeline from Dock #1 to the Vapor Combustion Unit
- Installation of new gangway to provide safer access to the barges with no interference from the vapor hose
- Installation of necessary piping to supply natural gas to Dock #1 to enrich the vapors as required by USCG requirements

See attached drawings for plot plans and design details.

Upon the current lease expiration or termination, Shell would retain the right to remove the VCU skid for use at other facilities. The associated piping and facilities on Dock #1 would remain in place.

REASON / JUSTIFICATION:
 The current air permits have been expanded as far as possible with the state of Louisiana, allowing outbound dock activity of 3.5MB per rolling 12-month period. Even with this expansion, outbound dock traffic will be limited given the forecasted volumes out of the facility. A VCU will allow the facility to overcome outbound loading limitations.

CI'S AFFECTED

TECHNICAL ANALYSIS/RECOMMENDATION	IMPLEMENTATION METHOD <input type="checkbox"/> SUBCONTRACT <input type="checkbox"/> M&O LABOR (LOE) <input type="checkbox"/> COMBINATION
--	--

ENGINEERING	DATE	DOE SSR	DATE
<input type="checkbox"/> CONCUR <input type="checkbox"/> NONCONCUR			

STRATEGIC PETROLEUM RESERVE
ENGINEERING CHANGE PROPOSAL
CONFIGURATION CHANGE AFFECTED REPORT

WR #

TO BE COMPLETED BY TECHNICAL REVIEW PROCESS, ENGINEERING AND CONFIGURATION MANAGEMENT ORGANIZATION DEFINED PROCESS

ECP NO.	CONTRACTOR CHANGE NO. SJ-M10-4654	REV.	CHANGE CLASSIFICATION <input type="checkbox"/> CLASS I <input type="checkbox"/> CLASS II	PAGE 2 OF 6
FUNCTIONS AFFECTED			DOCUMENTS AFFECTED	
YES/NO	ITEM	YES/NO	ITEM	
YES	LEVEL I <input type="checkbox"/> LEVEL II <input type="checkbox"/> CRITERIA		ELECTRICAL (cont'd)	
NO	PERFORMANCE CRITERIA	YES	315 - CATHODIC PROTECTION	
NO	RAM	NO	350 - STANDARDS	
NO	INTERFACE CHARACTERISTICS		INSTRUMENTATION	
NO	I/O POINTS	YES	401 - BLOCK DIAGRAM	
NO	DOE LEVEL I, II, III SCHEDULES	YES	402 - LOOP DIAGRAMS	
NO	GUARANTEES/DELIVERABLES	YES	403 - INSTRUMENT PLANS	
NO	SAFETY/ENV/FP (CIRCLE ONE)	YES	404 - INSTRUMENT WIRING DIAGRAM	
NO	SECURITY REQUIREMENTS	NO	409 - INSTRUMENT INDEX	
NO	OPCS SOFTWARE	NO	450 - STANDARDS	
NO	OPCS HARDWARE		MAPPING	
NO	OPCS FIRMWARE	YES	501 - ALIGNMENT SHEETS	
NO	SETPOINTS/RANGES	YES	509 - PIPELINE DRWGS (MAINLINE VALVES, DRIPS, SCRAPER, TRAPS, ETC.)	
NO	DIP SWITCH SETTINGS/JUMPERS	NO	550 - STANDARDS	
NO	MASTER CI LIST		ARCHITECTURAL	
NO	WELLHEAD CONFIGURATION	NO	720 - ELEVATIONS AND FLOOR PLANS	
NO	SPARES/ROVISIONING REQUIREMENTS	NO	750 - STANDARDS	
NO	GOVERNMENT FURNISHED EQUIPMENT		DOCUMENTATION	
NO	ENERGY USAGE	NO	900 - RESERVED	
NO	OPERATIONS MODESL	NO	901 - TECHNICAL/PERFORMANCE/DESIGN CRITERIA	
YES	OTHER	NO	910 - DESIGN DESCRIPTION/BASIS	
	DOCUMENTS AFFECTED	NO	911 - PROCESS SET POINT DOCUMENTS	
YES/NO	ITEMS	YES	912 - EQUIPMENT LIST	
	PIPING	YES	913 - MOV LIST	
YES	101 - PROCESS FLOW DIAGRAMS	NO	915 - ELECTRICAL SAFETY	
YES	102 - MECHANICAL FLOW DIAGRAMS	NO	920 - I/O DOCUMENT	
YES	103 - PIPING AND INSTRUMENTATION DIAGRAMS (P&ID'S)	NO	930 - OPERATIONS MANUALS	
YES	104 - UTILITY FLOW DIAGRAMS	NO	930 - MAINTENANCE MANUALS	
YES	105 - GENERAL PIPING PLANS	NO	950 - STANDARD SPECIFICATIONS	
YES	106 - AREA PLANS (MECHANICAL EQUIPMENT LOCATION)	NO	970 - TASK SPECIFICATIONS	
NO	122 - WELL HEAD DRAWINGS	NO	990 - CONFIGURATION MANAGEMENT REPORTS/I.B.M.	
YES	130 - VALVE LIST	COMENTS:		
NO	135 - LINE LIST			
NO	140 - PSV LIST			
NO	150 - STANDARDS			
	CIVIL/STRUCTURAL			
YES	201 - PLOT PLANS			
NO	202 - SITE WORK: GRADING (ROUGH & FINISH) DRAIN FENCING			
YES	210 - FOUNDATIONS: LOCATION PLANS			
NO	216 - MINES (WEEKS ISLAND ONLY)			
NO	250 - STANDARDS			
	ELECTRICAL			
YES	301 - AREA CLASSIFICATION			
YES	302 - ONE LINE DIAGRAMS			
YES	303 - SCHEMATIC DIAGRAMS			
YES	304 - POWER PLAND AND DETAILS			
NO	305 - LIGHTING PLAND AND DETAILS			
NO	307 - SUBSTATION PLANS AND DETAILS			
YES	308 - WIRING DIAGRAMS			
YES	310 - GROUNDING			
YES	311 - CONDUIT & CABLE SCHEDULES (INCLUDING INST.)			
NO	313 - MCC/SWITHC GEAR EVALUATION & SCHEDULE			
ENGINEERING	DATE	CONFIGURATION MANAGEMENT	DATE	

STRATEGIC PETROLEUM RESERVE
ENGINEERING CHANGE PROPOSAL
SOFTWARE, HARDWARE, FIRMWARE CHANGE

WR #

CONTRACTOR CHANGE NUMBER

REVISION NUMBER

ECP NUMBER

PAGE 3 OF 6

SJ-MIO-4654

SOFTWARE CHANGE ANALYSIS

HARDWARE/SOFTWARE AFFECTED

(NOTE: REDLINE CI BOM)

DISPOSITION OF PARTS

REWORK SITE COMPONENTS ONLY REWORK ALL SITE COMPONENTS COMPONENTS NOT AFFECTED

OTHER (DESCRIBE)

COMPONENT COMPATIBILITY (LIST COMPONENTS SEPERATELY IF COMPATIBILITIES ARE DIFFERENT)

INTERCHANGEABLE

DRAWDOWN COMPATIBLE

NONCOMPATIBLE

OPCS SUPPORT ENGINEER

DATE

FUNCTIONAL MANAGER

DATE

IMPLEMENTATION / TEST COMMENTS

WITNESSED BY

DATE

FULL APPROVAL

CONDITIONAL / LIMITED APPROVAL

DISAPPROVAL

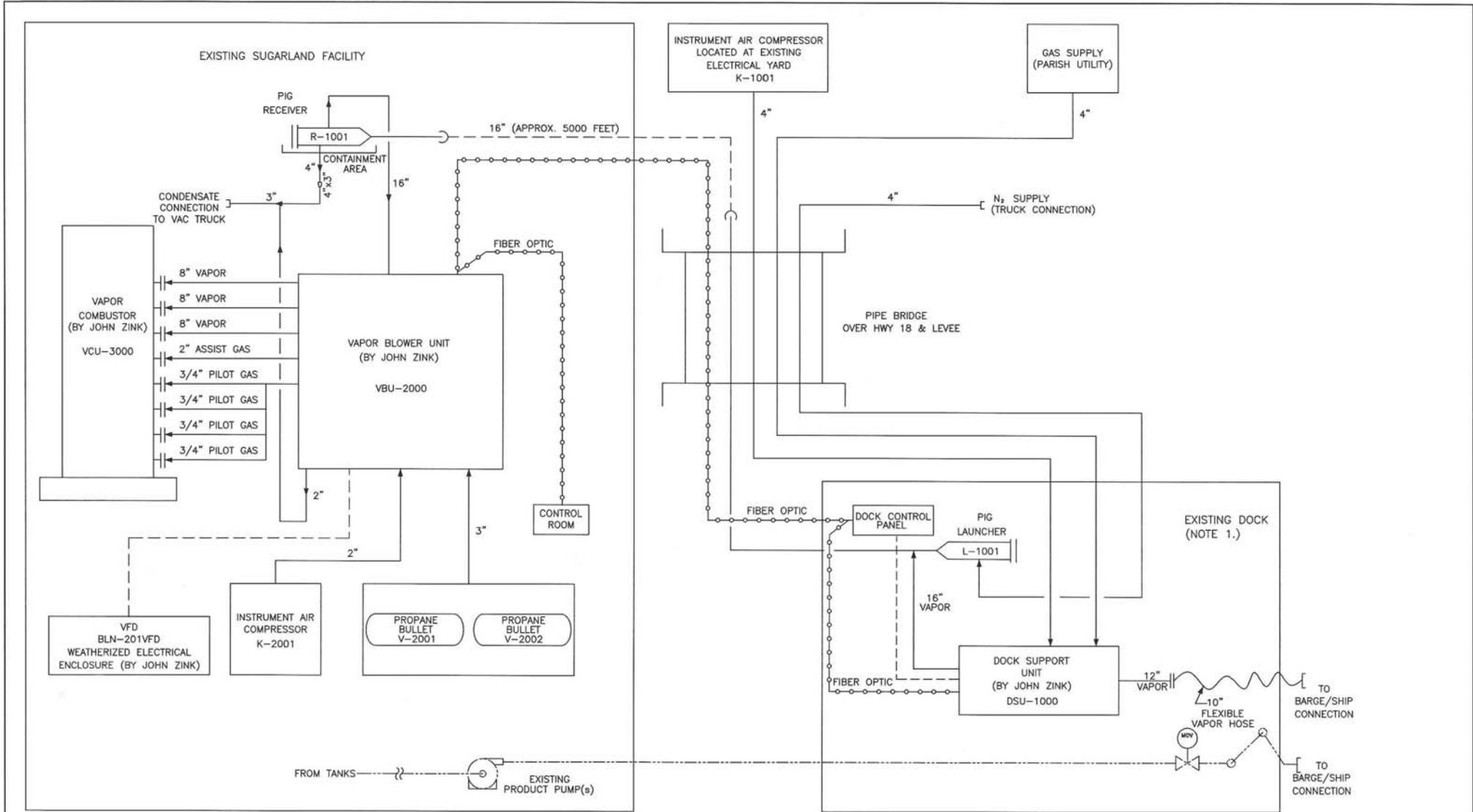
D-882

STRATEGIC PETROLEUM RESERVE

WR #

ENGINEERING CHANGE PROPOSAL (CONTINUED)

PAGE 5 OF 6



NOTE 1. ALL NEW EQUIPMENT ON DOCK TO BE LOCATED WITHIN CONTAINMENT AREA.

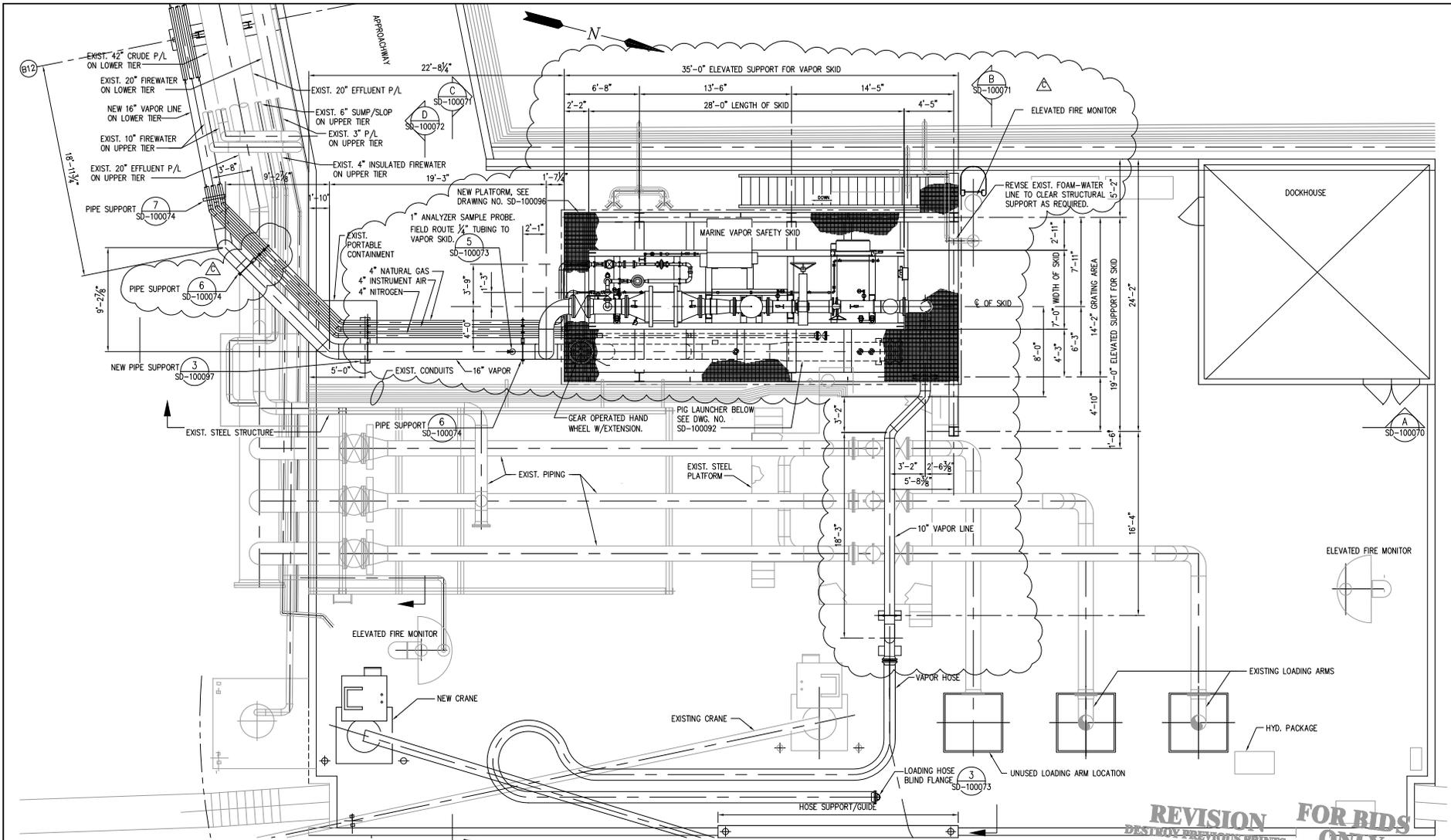
WP-408012-00076-PI-PFD-0001_D

REV NO.	DATE	DESCRIPTION OF REVISION	ES NO.	BY	CHK'D	APP'D	REV NO.	DATE	DESCRIPTION OF REVISION	ES NO.	BY	CHK'D	APP'D	DATE	SD	REV D
							D	10/21/11	ISSUED FOR DESIGN		J.F.	H.S.	K			
							C	07/26/11	ISSUED FOR CLIENT REVIEW		RB	GG	EC			
							B	06/28/11	ISSUED FOR SQUAD CHECK		RB					
							A	06/13/11	ISSUED FOR INFORMATION		RB					

Sugarland Terminal
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PROCESS FLOW DIAGRAM
SUGARLAND TERMINAL
SUGARLAND VCU PROJECT

DATE 06/15/11 SD 1000016 REV D



LANIER & ASSOCIATES
 CONSULTING ENGINEERS, INC.
 NEW ORLEANS, LOUISIANA
 JOB NO. 8731 CAD NO. SD-100068 U. & A. DWG. NO. SD-100068

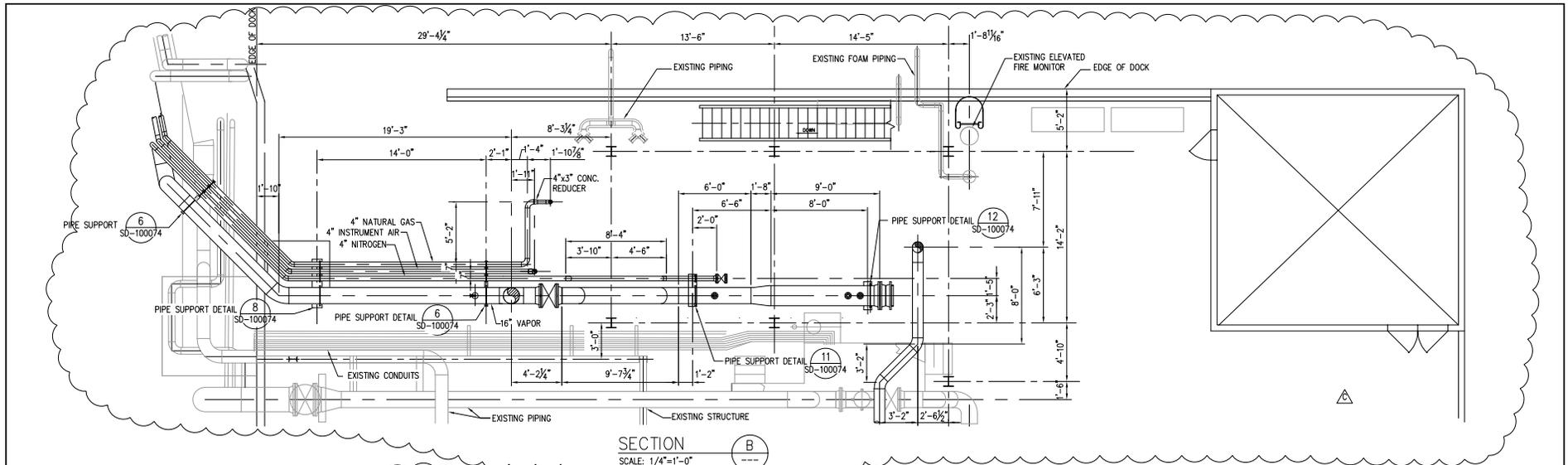
ENLARGED DOCK PLAN
 SCALE: 1/8"=1'-0"

REVISION FOR BIDS ONLY
 DESTROY PREVIOUS PRINTS
 11/03/11
 09/15/2011
 WP NO. 408012-00076-MA-DLP-0001

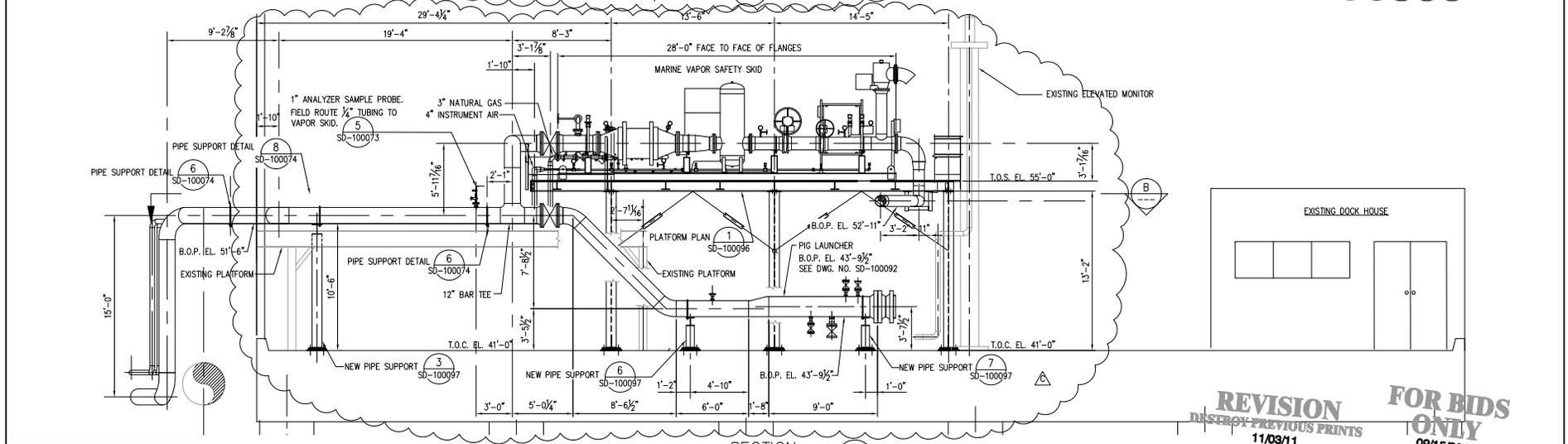
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C	11/03/11	PIPE SUPPORT AND PIPE SIZE REVISIONS, ADDED ANALYZER SAMPLE PROBE																09/15/2011	SD	100068	C	
B	09/28/11	REVISED PIG LAUNCHER BY CLIENT SUPPLIED DRAWING.																				
A	09/15/11	ISSUED FOR BIDS																				

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ENLARGED DOCK PLAN
 MVCS PIPING
 SHELL SUGARLAND DOCK NO. 1
 DATE 09/15/2011
 SD 100068
 REV. C



SECTION B
SCALE: 1/4"=1'-0"



SECTION A
SCALE: 1/4"=1'-0"

REVISION
RESERVE PREVIOUS PRINTS
11/03/11

FOR BIDS ONLY
09/15/2011

LANIER & ASSOCIATES
CONSULTING ENGINEERS, INC.
NEW ORLEANS, LOUISIANA
JOB NO. 8731 CAD NO. SD-100070 L & A. DWG. NO. SD-100070

WP NO. 408012-00076-MA-DSE-0001

REV NO	DATE	DESCRIPTION OF REVISION	ES. NO.	BY	ELEC	MECH	ENGR	APP	REV	DATE	DESCRIPTION OF REVISION	ES. NO.	BY	ELEC	MECH	ENGR	APP	REV	
C	11/03/11	PIPE SUPPORT AND PIPE SIZE REVISIONS, ADDED ANALYZER SAMPLE PROBE																	
B	09/28/11	REVISED PIG LAUNCHER BY CLIENT SUPPLIED DRAWING.																	
A	09/15/11	ISSUED FOR BIDS																	

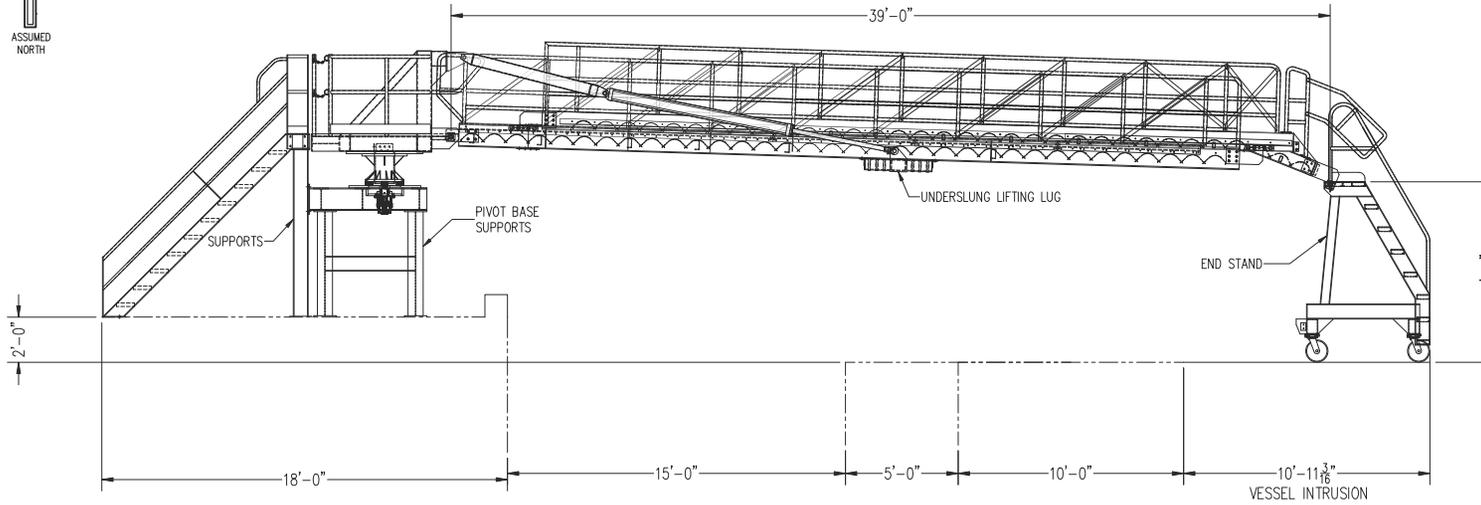
Sugarland Terminal
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SECTION "A"
MVCS PIPING
SHELL SUGARLAND DOCK NO. 1

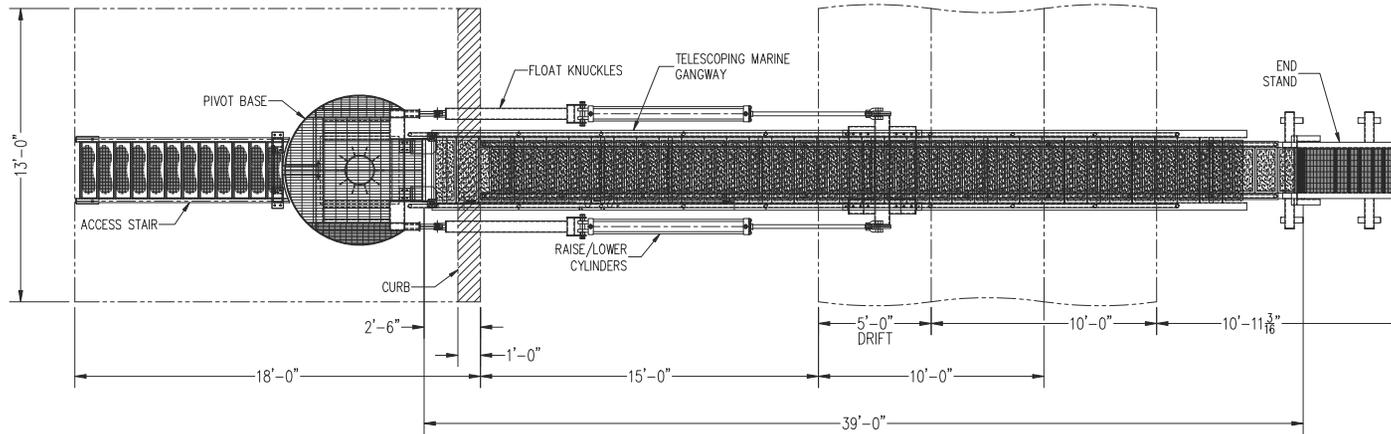
DATE 09/15/2011

SD -100070

REV. B



PLAN VIEW
(EQUIPMENT SHOWN IN WORKING POSITION WITH HIGH BARGE)
(SOME COMPONENTS NOT SHOWN FOR CLARITY)



ELEVATION VIEW
(EQUIPMENT SHOWN IN WORKING POSITION WITH HIGH BARGE)
(SOME COMPONENTS NOT SHOWN FOR CLARITY)

WARNING:

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REV	DATE	CHK	DATE	REVISION

CUSTOMER: LANIER AND ASSOCIATES

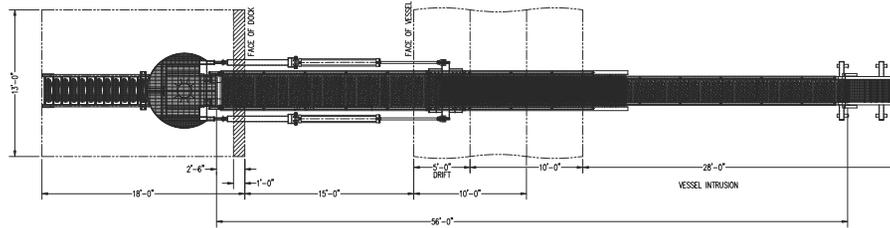
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CUSTOMER PURCHASE ORDER NUMBER: CONCEPT

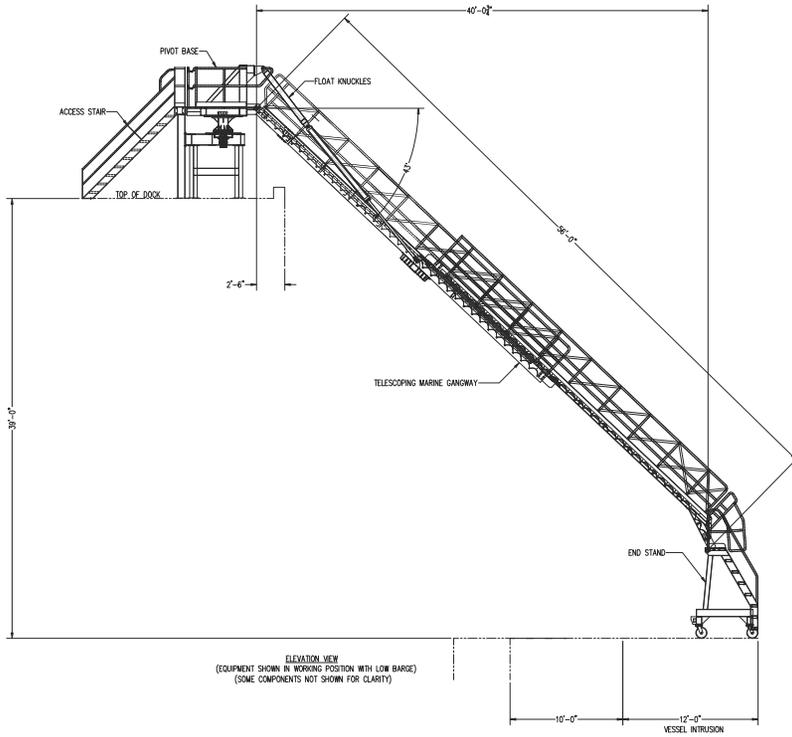
ORDER # _____ SCALE: 3/8" = 1'-0" SHEET 1 of 3 REV 0

DRAWN: DWD CHECK: _____ DATE: 9/22/2011 DATE: _____ DATE: _____ DATE: _____ DRAWING NUMBER: IGSW092111.1

CUSTOMER APPROVAL
SIGNATURE _____ DATE _____



PLAN VIEW
(EQUIPMENT SHOWN IN WORKING POSITION WITH LOW BARGE @ HORIZONTAL)
(SOME COMPONENTS NOT SHOWN FOR CLARITY)



ELEVATION VIEW
(EQUIPMENT SHOWN IN WORKING POSITION WITH LOW BARGE)
(SOME COMPONENTS NOT SHOWN FOR CLARITY)

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CUSTOMER APPROVAL

SIGNATURE _____ DATE _____

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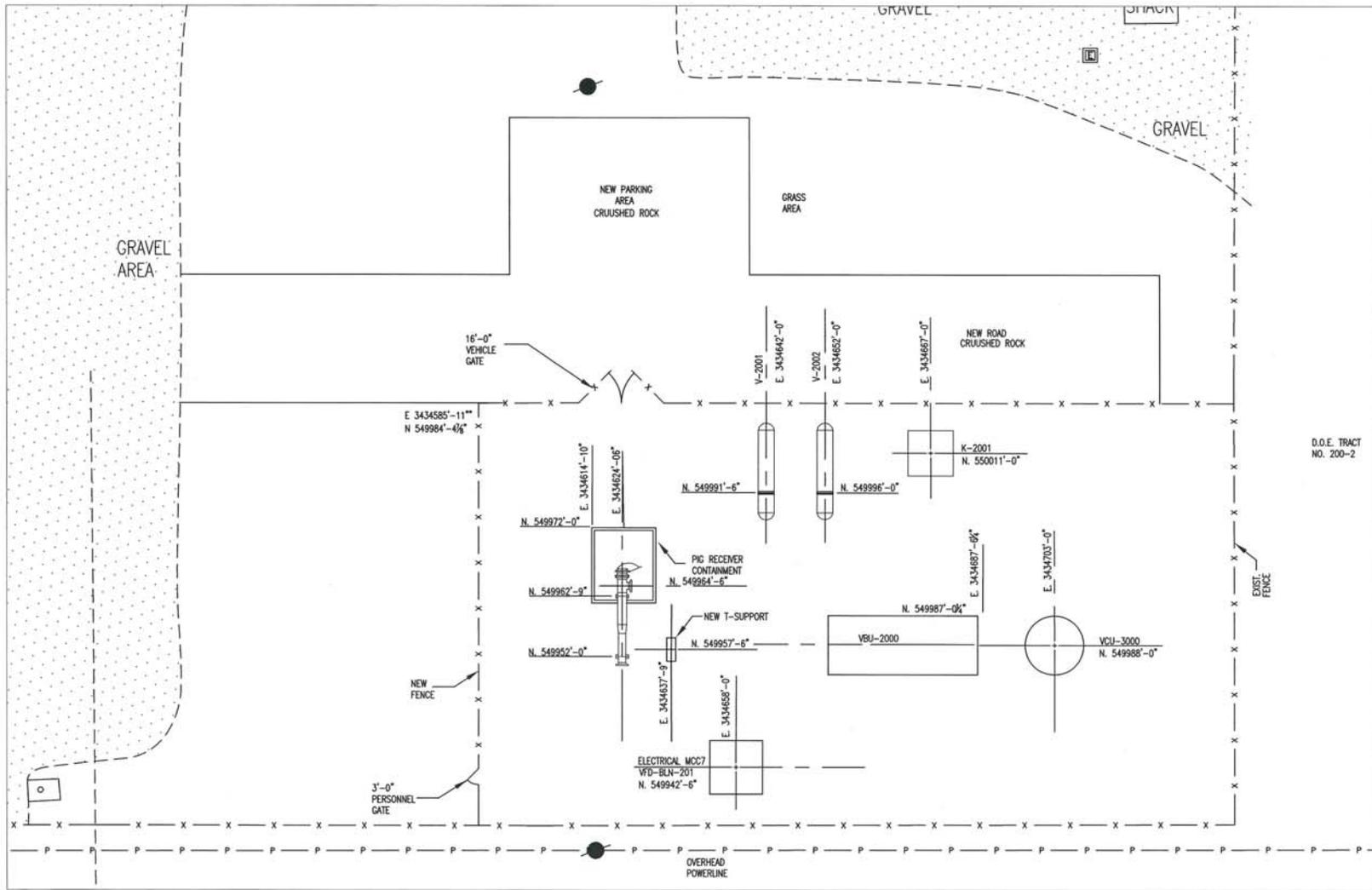
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REV	DATE	CHK	DATE	REVISION

CUSTOMER		LANIER AND ASSOCIATES	
TITLE		BARGE ACCESS SYSTEM	
CUSTOMER PURCHASE ORDER NUMBER		CONCEPT	
ORDER #	SCALE	SHEET	REV
	3/16" = 1'-0"	2 of 3	0
DRAWN	CHECK	FINAL OK	DRAWING NUMBER
DATE 9/22/2011	DATE	DATE	IGSW092111.1



- EQUIPMENT LIST**
 K-2001- AIR COMPRESSOR
 R-1001- PIG RECEIVER
 VBU-2000- VAPOR COMBUSTION UNIT
 VCU-3000- VAPOR COMBUSTOR

REFERENCE DRAWINGS
 SD-10055 GRADING FOUNDATION PLAN
 (WP NO 408012-00076-PI-DPP-0004)

D.O.E. TRACT
 NO. 200-2

NEW VAPOR COMBUSTOR PLOT PLAN
 SCALE 1"=10'

WP DOC NO. 408012-00076-PI-DPP-0002_D

REV. NO.	DATE	DESCRIPTION OF REVISION	DESIGNED BY	CHECKED BY	DATE	DESCRIPTION OF REVISION	DESIGNED BY	CHECKED BY	DATE	DESCRIPTION OF REVISION
D	11/02/2011	ISSUE FOR DESIGN	J.L.F.	M.B.	11/02/2011	ISSUE FOR DESIGN	J.L.F.	M.B.	11/02/2011	ISSUE FOR DESIGN
C	10/05/2011	REISSUED FOR CLIENT REVIEW	J.L.F.	M.B.	10/05/2011	REISSUED FOR CLIENT REVIEW	J.L.F.	M.B.	10/05/2011	REISSUED FOR CLIENT REVIEW
B	9/15/2011	ISSUED FOR CLIENT REVIEW	J.L.F.	M.B.	9/15/2011	ISSUED FOR CLIENT REVIEW	J.L.F.	M.B.	9/15/2011	ISSUED FOR CLIENT REVIEW
A	9/12/2011	ISSUED FOR SQUAD CHECK	J.L.F.	M.B.	9/12/2011	ISSUED FOR SQUAD CHECK	J.L.F.	M.B.	9/12/2011	ISSUED FOR SQUAD CHECK

SUGARLAND TERMINAL

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**PLOT PLAN
 VCU UNIT AREA
 SUGAR LAND TERMINAL**

DATE 08/03/2011

SD -100078

REV. D