



September 2, 2009

Mr. Joseph R. May, P.G.
Florida Department of Environmental Protection
400 North Congress Avenue, Suite 200
West Palm Beach, Florida 33401

Re: **Okeechobee Landfill, Inc.**
UIC Number: 0040842-022-UC
RFI Number 3: Okeechobee Landfill Injection Well (IW-1)

Dear Mr. May:

L.S. Sims & Associates have reviewed the Department's request for additional information dated August 25, 2009 and have prepared the following responses.

Comment 1:

The response to RFI-2, received August 7, 2009, states various procedures for calibration, please see comments for each instrument/assembly.

- a) Pressure element PE 200 seems to be a pressure element for PIT 200 constituting an assembly for which a manufacturer's calibration certificate must be submitted.*
- e) Level element LE 400 seems to be a level sensing element for LIT 400 constituting an assembly for which a manufacturer's calibration certificate must be submitted.*
- f) Level element LE 401 seems to be a level sensing element for LIT 401 constituting an assembly for which a manufacturer's calibration certificate must be submitted.*
- g) Annulus pressure tank PE 300 seems to be a pressure element for PIT 300 constituting an assembly for which a manufacturer's calibration certificate must be submitted.*
- h) Annulus pressure tank LS 300 response states it to be a level switch but from the illegible Copy of P&ID it appears to be LE, submit a signed and sealed P&ID.*

Please submit calibration certificates for the above stated instruments/assemblies.



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September 2, 2009
Page 2

Response –

Regarding Items a, e, f, and g: Calibration test reports for the pressure transducers (PE-200, PE-300) and level transducers (LE-400, LE-401) are included herein as Exhibit 1.

Regarding Item h: Larger scale plots of the P&ID (signed & sealed) are included herein as part of Exhibit 3. The device mentioned in the comment is a level switch (LS). LE-300 is a manually operated sight glass on the side of the annulus tank. This device provides a means to visually observe the water level in the tank and is not subject to calibration.

Comment 2:

The Mill Certificates received on August 15, 2009 are illegible. Please submit legible copies of the mill certificates. Please indicate on the mill certificates which well casings are associated with the injection and monitor wells.

Response –

The requested information has been included and copies of mill certificates for casing used in the wells' construction are included here as Exhibit 2

Comment 3:

The drawings "WMI Leachate Disposal Injection Well P&ID sheet 1 of 1", "Leachate Injection Well Project IW Slab - Structural Plan" and "Leachate Injection Well Project IW Slab - Elevation Schematic" received on August 7, 2009 is still partially illegible. Please review the drawings to assure that the details can be plainly seen on the sheets submitted.

Response –

Larger sized copies of the following drawings (signed & sealed) are attached to this RFI response letter.

- C-1 LEACHATE TRANSFER PIPELINE ROUTING
- S-2 IW SLAB - STRUCTURAL PLAN
- S-3 IW SLAB ELEVATION SCHEMATIC
- I-1 PROCESS & INSTRUMENTATION DIAGRAM



Mr. Joseph R. May, P.G.
September 2, 2009
Page 3

If you have any questions or need additional information, you can contact me at
(321) 504-4046.

Sincerely,

James E. McGrath 9/2/09

James E. McGrath, P.G.
L.S. Sims & Associates, Inc.

CC: Gardner Strasser, P.G., FDEP
Joe Haberfield, P.G., FDEP
Nancy Marsh, USEPA Region IV
Steven D. Anderson, P.G., SFWMD
Tim Hawkins, WMI
Tony Bishop, WMI
Roger Mayfield, P.E.
File



UIC Number: 0040842-022-UC

RFI Number 3: Okeechobee Landfill Injection Well (IW-1)

EXHIBIT 1

Calibration test reports for pressure transducers (PE-200, PE-300)

Calibration test reports for level transducers (LE-400, LE-401)

**(Instrument devices and calibration test reports
provided by Sligo Systems, Inc.)**



SLIGO SYSTEMS

Landfill Pumps & Controls

PO Box 350
Cassadaga, FL 32706
386-218-4981
www.sligosystems.com

PRESSURE TRANSDUCER TEST REPORT

DATE OF TEST: August 31, 2009

DEVICE NUMBER: PE-200

MAKE & MODEL: ROSEMONT 3051S 2 C G 4A A 11 A 1A B4 M5

RANGE: 0 - 300 psi

SERVICE: INJECTION WELLHEAD PRESSURE

TEST GAUGE

NO: W396-09

MAKE/MODEL: ASHCROFT 45 1009S

RANGE: 0 - 100 psi

DATE LAST CALIBRATED: August 6, 2009

TEST DATA

GAUGE PRESSURE psi	TRANSDUCER READING psi	DEVIATION psi	DEVIATION FROM THE MEAN +/- %
18	17.6	0.4	1.1%
26	26.4	0.4	0.8%
46	46.8	0.8	0.9%
AVERAGE DEVIATION FROM THE MEAN			0.9%

SLIGO SYSTEMS

DOUG CHAPPEL

9/1/2009

DATE



SLIGO SYSTEMS

Landfill Pumps & Controls

PO Box 350

Cassadaga, FL 32706

386-218-4981

www.sligosystems.com

PRESSURE TRANSDUCER TEST REPORT

DATE OF TEST: August 31, 2009

DEVICE NUMBER: PE-300

MAKE & MODEL: ROSEMONT 3051S 2 C G 4A A 11 A 1A B4 M5

RANGE: 0 - 300 psi

SERVICE: ANNULUS PRESSURE

TEST GAUGE

NO: W395-09

MAKE/MODEL: ASHCROFT 45 1009S

RANGE: 0 - 100 psi

DATE LAST CALIBRATED: August 6, 2009

TEST DATA

GAUGE PRESSURE psi	TRANSDUCER READING psi	DEVIATION psi	DEVIATION FROM THE MEAN +/- %
19	18.9	0.1	0.3%
46	45.5	0.5	0.5%
91	91.4	0.4	0.2%
AVERAGE DEVIATION FROM THE MEAN			0.3%

SLIGO SYSTEMS

DOUG CHAPPEL

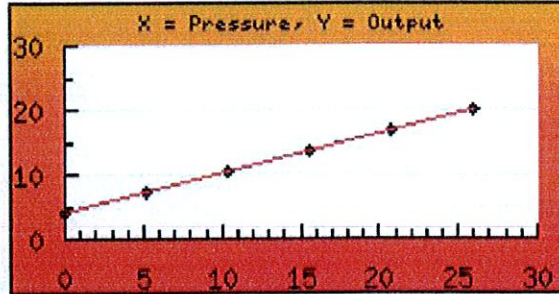
9/1/2009

DATE

Part#	0416.15902.020123.43
Serial#	34019

Px Zero	Px FS	Units
0	26	PSI (G)

Non-Linearity:		
Spec	Actual Max	Pass/Fail
1	0.009704%FS	In Spec



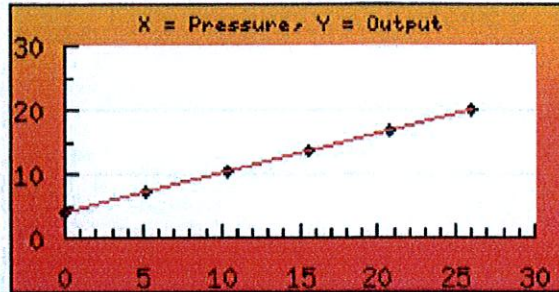
Point	Px In	Output	Lin Reg	Deviation	% Error	Status
0.00%	0.00	4.007	4.006524	0.000476	0.002977	In Spec
20.00%	5.20	7.206	7.205781	0.000219	0.001369	In Spec
40.00%	10.40	10.404	10.405038	-0.001038	0.006489	In Spec
60.00%	15.60	13.605	13.604295	0.000705	0.004406	In Spec
80.00%	20.80	16.802	16.803552	-0.001552	0.009704	In Spec
100.00%	26.00	20.004	20.002810	0.001190	0.007442	In Spec

*Red/orange cells contain defined values, all others contain generated data.

Part#	0416.15902.020123.43
Serial#	34310

Px Zero	Px FS	Units
0	26	PSI (G)

Non-Linearity:		
Spec	Actual Max	Pass/Fail
1	0.013043%FS	In Spec



Point	Px In	Output	Lin Reg	Deviation	% Error	Status
0.00%	0.00	4.010	4.011857	-0.001857	0.011614	In Spec
20.00%	5.20	7.212	7.209914	0.002086	0.013043	In Spec
40.00%	10.40	10.408	10.407971	0.000029	0.000179	In Spec
60.00%	15.60	13.606	13.606029	-0.000029	0.000179	In Spec
80.00%	20.80	16.805	16.804086	0.000914	0.005718	In Spec
100.00%	26.00	20.001	20.002143	-0.001143	0.007147	In Spec

*Red/orange cells contain defined values, all others contain generated data.



UIC Number: 0040842-022-UC

RFI Number 3: Okeechobee Landfill Injection Well (IW-1)

EXHIBIT 2

Casing Mill Certificates

INJECTION WELL

- 42" Conductor Casing
- 36" Surface Casing
- 26" Intermediate Casing
- 16" Final Casing

DUAL ZONE DEEP MONITOR WELL

- 34" Conductor Casing
- 24" Surface Casing
- 16" Final Casing/ Shallow Monitor Zone



INJECTION WELL

42" Conductor Casing

Исполнитель
Producer **ОАО "Харьковский трубный завод"**
ул. Патона, 9, г. Харьков
Донецкой обл. 86703 УКРАИНА

PJSC "Khartsyzsk Tube Works"
9, Paton str. Khartsyzsk
Donetsk Reg. 86703 The UKRAINE



Грузополучатель, адрес Consignee, address
65026, Украина, г.Одесса, Таможенная пл. 1, Одесский
морской торговый порт, США

Дата отгрузки
The date of load 13.08.2008
Shipment

Система управления
сертифицирована по стандарту
Management System is certified in
accordance with the Standards
ISO 9001:2000; ДСТУ ISO 9001:2001;
API Spec Q1-Seventh Edition.
ISO 14001:2004;
OHSAS 18001:1999.



Вагон
Waggon № **67864801**

Заказ-наряд № 1955
Order №
Контракт № 833-от
Contract № 19.05.2005

Продукция
сертифицирована по стандарту
Product is certified in accordance with
the Standard
API Spec 5L-2004
API Spec 2B2001.

СЕРТИФИКАТ КАЧЕСТВА № 28915
CERTIFICATE OF QUALITY

Страница 1
Page
Страниц 2
Pages

Согласно According DIN 50048 3.1B

Наименование товара Designation of product			НД покрытия Standard for coating			НД труб Standard for pipes				
Трубы стальные электросварные продольношовные, изготовленные методом дуговой сварки под слоем флюса Electric-welded longitudinal steel pipes, manufactured by the method of submerged arc welding under flux						API Spec 5L (43rd edition) PSL 2				
Марка стали Steel grade Класс прочности Strength factor	Номер трубы Pipe number	Номер плавки Heat number	Диаметр дюйм Dia- meter inch	Толщина дюйм Thick- ness inch	Длина фут Length foot	Номер партии сварного соединения Weld joint lot number		Номер партии покр. Lot number of coating	Гидрост. давл. Hydrostatic test pressure, psi	
						Продольного Longitudinal	Поперечн. Transverse		Стандар- тное Standard	Альтернативное Alternative
X52/X42	613308	6437	42	0.375	39.2	6133			840	
X52/X42	613313	6437	42	0.375	39.1	6133			840	
X52/X42	613308	6437	42	0.375	39.2	6133			840	
X52/X42	613715	6436	42	0.375	39.2	6137			840	
X52/X42	613307	6437	42	0.375	39.2	6133			840	
X52/X42	613304	6437	42	0.375	39.0	6133			840	

FSI P.O. 1040140700

Electric-welded steel pipes with one longitudinal weld, made by the method of arc welding under flux (SAW).
According to data available from the mill-supplier, steel plate used for pipe production was subjected to ultrasonic examination over the whole area - the results are satisfactory.

The preservative coating made by black bitumen lacquer is applied onto the whole external surface.

Welded joints are UT examined along the whole length, calibration of equipment was performed on reference standard, which contains four machined notches N5 and one radially drilled hole-diameter 1.5 mm. Repaired and end sections of welded joints were tested by radiological examination with sensitivity not less than 2% thickness of welded joint. Full circumference of end metal of all pipes was UT examined. NDT results are satisfactory.

Tensile tests of mechanical parameters of metal and welded joints were performed on flat full-size specimens as per ASTM A370 with width in tested part of a specimen 1.488 in. Impact toughness test were performed on specimens cut out transversally to the rolling direction as per ASTM A370 by section size 0.394x0.394 in. at metal thickness 0.500 in. and 0.825 in., 0.394x0.296 at metal thickness 0.375 in. Tolerances on out-of-roundness and straightness of pipes are according to API 2B. Each pipe was subjected to hydrostatic testing, endurance time - 10 sec/min.

Heat treatment of pipes and welded joints was not performed. All pipes are equipped with steel bevel protectors.

Погружено в вагон Loaded in waggon		Качество труб, указанных в настоящем документе, соответствует условиям контракта и требованиям НД. The quality of pipes included in this Certificate complies with the terms of the Contract and the requirements of Standard.			
Кол-во шт Quantity, pcs	Общая длина труб, фут Total length of pipes, foot	Теор. масса труб, фунт Theor. mass of pipes, lb	Теор. масса труб, кг Theor. mass of pipes, kg	Теорет. масса покрытия, кг Theor. mass of coating, kg	Теорет. масса труб с покрытием, кг Theor. mass of pipes with coating, kg
6	234.9	39196	17737	0	

conductor 42" IAW Pit Pipe

Customer Number: All Webb

Inventory Transfer To:

All Webb's Enterprises, Inc.
309 Commerce Way
Jupiter FL 33458

Date Shipped	Sales Person	Terms



158 Third Street
PO Box 583
Mineola, NY 11501
Phone (516) 741-8398
Fax (516) 741-8210
Toll Free 800-272-8277

Issued for Account of Vass Pipe and Steel

Bill of Lading
Packing List

Rel # 58276 - HT

Date 1/25/2008

Ref'd by KISHOR

Whse Vass

ATTN:

P.O. # OK1001

Pick up at Ship to

OKEECHOBEE LANDFILL INC
10800 NE 128 TH AVE
CONTACT: GENE WEBB
OKEECHOBEE FL 34792-
561-718-5080

Shipped Via	Freight	FOB Point

Quantity	Bndt	Pcs	DESCRIPTION OF PIPE TO BE RELEASED		B / L	Ship Name	MHI	Instructions
			Length	Product				
2 TRUCK	D	7	D/R	42 BPE STD .375W WELDED APISL/X42/X52/PSL2	WBCA1000510 52	OMER KAPTANOGLU	KHARTSYZSK	

ON LOAD #1 4 PCS AND ON LOAD #2 3 PCS

Received in good condition by _____ Signature _____ Date _____

SIGNED BILL OF LADING MUST ACCOMPANY FREIGHT INVOICE FOR PROMPT PAYMENT

CALL 24 HRS IN ADVANCE BEFORE DELIVERY

Tuesday, January 29, 2008

conductor ass 42" IW shipping rept.

ПОКАЗАТЕЛИ КАЧЕСТВА

Механические свойства металла
Mechanical properties of base metal

Номер плавки Heat number	Времен. сопротив. вдоль Ultimate strength along, psi	Времен. сопротив. поперек Ultimate strength across, psi	Предел текучести Yield strength, psi	Относительное удлинение Relative elongation, %	Энергия удара, Дж Impact energy, J			МПГ DWTT %	
					KCV	32°F	50°F		
6428	91000	69000	36	36	139	141	155	80	80
6437	71000	58000	40	40	188	149	132	85	85
6485	68000	54000	42	42	116	124	143	85	85

INDICES OF QUALITY

Механические свойства продольных сварн. соед.
Mechanical properties of Longitudinal Weld Joints

Номер партии Lot number	Временное сопротивление Ultimate strength, psi	Энергия удара, Дж Impact energy, J	Статический изгиб Guided bend test	Твердость, Нетеллс HRC NACE MR0175		
				осн. металл the area of base metal	зона терм. возд. heat affected zone	металл сварн. соед. weld metal
6188	75000	52 68 49	сет	2	4	9
6136	75000	52 48 52	сет	1	3	10
6184	83000	52 68 70	сет	2	4	11
				1	3	8
				1	3	5
				1	3	6

Треб. контр.
Requirement of Contract

Химический состав, %
Chemical composition, %

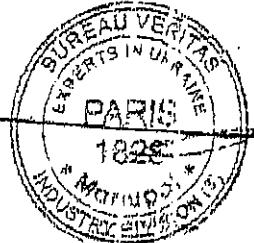
Номер плавки Heat number	CE x100 Perm	C x100	Si x100	Mn x100	Al x1000	S x1000	P x1000	V x1000	Nb x1000	Ti x1000	Cu x100	Cr x100	Ni x100	Mo x100	N x1000	Ca x1000	B x10000	
																		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
6428	31	31	8	8	21	22	129	128	41	30	5	8	13	12				
6437	31	32	9	9	20	20	130	134	35	35	8	8	14	12				
6485	30	32	8	9	18	18	132	133	45	44	8	7	15	16				
			10	10	21	21	129	130	33	34	8	8	12	12				
			10	10	19	19	132	134	43	44	5	5	13	13				
											18	18	2	2	2	6	5	4
											27	19	2	2	6	6	4	3
											20	20	1	1	6	2	2	
											29	33	1	1	5	5	1	1
											22	21	3	3	3	6	3	3
											40	35	3	3	6	8	3	2

Треб. контр.
Requirement of Contract

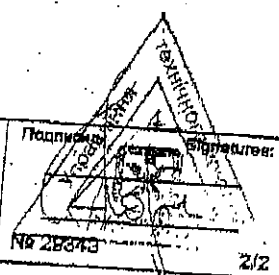
Max 43	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX
	22		140		15	25												

Антикоррозийное покрытие
Anticorrosive Coating

Номер партии покрытия труб Lot number of coating pipes	Толщина наружного покрыт., мм не менее Thickness of outer coating no less, mm	Цифр. материал. покрытие Code of coating material	Материалы покрытия Coating Materials			Результаты испытания партий антикоррозийного покрытия труб, не менее Lots anticorrosive coating of pipes test results, no less		
			Основной слой Base layer	Адгезионный слой Adhesive layer	Грунтообразный слой Primer layer	Диэлектр. прочность, кВ Dielectrical solidity, kV	Прочность при ударе, Дж Impact strength, J	Прочность связи, Н/см Peel strength, N/cm



REVIEWED
KHAREBIN. R
18.08.2008



JAN. 29. 2008 1:16PM

FROM VASS PIPE TUBULARS INC

ALL WEBBS ENT INC

PAGE 03/11

TO VASS

NO. 7402

P. 2. 015

STRAIGHT BILL OF LADING Original - Not Negotiable - Domestic

Shipper's No. **GH 1110**

Agent's No.

WTF

Carrier **0040**



RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading

at Pearland, TX - 22 2008 from HTI/ VASS

The property described herein is consigned to and order thereon issued (contract and shipment) of consignor at each place where it is consigned and received by the carrier (other than when used as a bill of lading) being produced by the carrier. The carrier is not responsible for the loss of or damage to the property in transit. The carrier is not responsible for the loss of or damage to the property in transit. The carrier is not responsible for the loss of or damage to the property in transit. The carrier is not responsible for the loss of or damage to the property in transit.

Consigned to VASS (Mail or street address of consignee - for purposes of notification only)

Destination _____ Street _____ City _____ State of _____ Zip Code _____ County of _____

Routing _____ Delivering Carrier _____ Vehicle or Car Initial _____ No. _____

Collect On Delivery \$ _____ and permit to: _____

RELEASE # 5276-1 Street _____ City _____ State _____

No. Package	Description of Articles, Special Marks, and Excesses	Weight (Rtg. in Ctn.)	Class or Rate	Check Column
4	42X 375 BAE XHA 1152 DLE			

U.S. Customs & Border Protection
 Consignee's Signature _____
 Consignor's Signature _____

Butterfly Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignee, the consignor shall sign the following statement:
 The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor) _____

If charges are to be prepaid, write or stamp here: **TO BE PREPAID.**

Received \$ 100 to apply in prepayment of the charges on the property described herein.

Agent or Cashier _____
 Per _____
 (The signature here acknowledges only the amount prepaid.)

Charges Advised: _____

"If the consignment is between two ports by sea, the law requires that the bill of lading shall state whether it is "bills of lading" or "bills of lading" or "bills of lading" or "bills of lading". Where the law is dependent on value, shippers are required to state explicitly in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby explicitly stated by the shipper to be not exceeding _____ per _____

Shipper, Per [Signature] Agent, Per _____

conductor 058 - [Signature]

JAN. 29. 2008 1:23PM VASS PIPE

NO. 7402 P. 9

ПОКАЗАТЕЛИ КАЧЕСТВА

INDICES OF QUALITY

Механические свойства металла Mechanical properties of base metal							Механические свойства продольных сварн. соед. Mechanical properties of Longitudinal Weld Joints							
Номер плавки Heat number	Временн. сопротив. вдоль Ultimate strength along, psi	Временн. сопротив. поперек Ultimate strength across, psi	Предел текучести Yield strength, psi	Относительное удлинение Relative elongation, % 52"	Энергия удара, Дж Impact energy, J		Номер партии Lot number	Временн. сопротивление Ultimate strength, psi	Энергия удара, Дж Impact energy, J	Статический изгиб Guided bend test	Твердость, Hardness HRC NACE MRO17B			
					32°F						осн. металл the area of base metal			
6436		69000	58000	42	104	112 111					2	4	8	
6437		71000	58000	40	138	148 132	85 85	8133	75000	52 50 49	psi	1	3	10
							85 85	8137	72000	45 39 38	psi	4	1	8
											psi	4	2	8

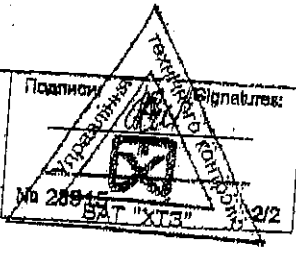
Треб. контр. Requirement of Contract																			
--------------------------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Номер плавки Heat number	Химический состав, % Chemical composition, %																		
	CE x100 Ppm	C x100	Si x100	Mn x100	Al x1000	S x1000	P x1000	V x1000	Nb x1000	Ti x1000	Cr x100	Cr x100	Ni x100	Mo x100	N x1000	Ca x1000	B x10000		
6436	32	31	8	8	23	24	133	137	35	34	7	8	11	11					
6437	31	32	8	8	20	20	130	134	35	36	8	8	14	12					

Треб. контр. Requirement of Contract	Max 43	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX	MAX
		22		140		15	25												40

Номер партии покрытия труб Lot number of coating pipes	Толщина наружного покрытия, мм не менее Thickness of outer coating, no less, mm	Шифр материала покрытия Code of coating materials	Материалы покрытия Coating Materials			Результаты испытаний партий антикоррозионного покрытия труб, не менее Lots anticorrosive coating of pipes test results, no less		
			Основной слой Basic layer	Адгезионный слой Adhesive layer	Грунтовочный слой Primer layer	Диэлектр. сплошн., кВ Dielectrical solidify, kV	Прочность при ударе, Дж Impact strength, J	Прочность связи, Н/см Peel strength, N/cm

REVIEWED
PERFILIEV, I
13.08.2006





BETA STEEL CORP
6500 S. BOUNDARY ROAD
PORTAGE, IN 46368

PAGE: 1 of 1	
SHIPPER'S NO. 516533	
DATE PRINTED 7/10/2006	PART NO.
TIME PRINTED 12:07:50	INVOICE NO. BETA 141090
P.O. DATE 05/18/06	MILL ORDER 1027323
P.O. NO. 53911	PICKUP NO. 134558
BULLETIN(S): 59327	

F BETA STEEL CORP
R 6500 S. BOUNDARY ROAD
O PORTAGE, IN 46368
M

S Naylor Pipe Company
O 1230 East 92nd Street
L CHICAGO, IL 60619-7997
D
T
O

Naylor Pipe Co. c/o Feralloy
6755 Waterway Dr.
PORTAGE, IN 46368

S
H
I
P
T
O

DATE TIME SHIPPED 07/10/06 12:06	F.O.B. MILL PORTAGE, INDIANA	GROUP/ CARRIER SLFP S&L/FMP/PORT	CAR/ VEHICLE ID. TRACTOR: 9506 TRAILER: AB
TRANS. MODE CTR CUSTOMER TRUCK	TARE WEIGHT LBS. 0	EXCLUDED WEIGHT LBS. 0	B/L WEIGHT LBS. 72,250
		FREIGHT TERMS COL	COLLECT

PRODUCT DESCRIPTION: HOT ROLLED BAND PRIME COIL MILL EDGE CONV. TO A139 GR B N/A.
MATERIAL SHIPPED AS: HOT ROLLED BAND

ORDER ORDERED DIMENSIONS
1027323 .3600 X 41.7000 X COIL MIN

M/P/L: LOAD MUST BE TARPED
MARK EACH PIECE OR COIL WITH MATERIAL ID, WEIGHT, WIDTH AND GAUGE
THREE BANDS THRU EYE OF COIL AND TWO CIRCUMFERENTIAL BANDS

MATERIAL ID	HEAT NO.	DIMENSIONS	PCS	ACTUAL
346256	00710	.3600 X 41.7000	1	36,070
346257	00710	.3600 X 41.7000	1	36,180
ORDER TOTAL			2	72,250

Made and Melted in the USA
HEAT: 00710

	C	MN	P	S	SI	CU	NI
FNLARL1	0.15	0.61	0.005	0.004	0.02	0.11	0.04
	CR	AL	MO	V	CB	N	B
FNLARL1	0.04	0.027	0.014	0.001	0.002	0.009	0
	CA	SN	TI				
FNLARL1	0.0024	0.01	0.001				

Robert M. Chase
C.A. Representative

42" conductor pipe



BETA STEEL CORP
6500 S. BOUNDARY ROAD
PORTAGE, IN 46368

PAGE: 2 of 2	
SHIPPER'S NO. 516322	
DATE PRINTED 7/3/2006	PART NO.
TIME PRINTED 11:06:25	INVOICE NO. BETA 140864
P. O. DATE 05/18/06	MILL ORDER 1027323
P. O. NO. 53911	PICKUP NO. 134343
BULLETIN(S): 59185, 59262	

F BETA STEEL CORP
R 6500 S. BOUNDARY ROAD
O
M PORTAGE, IN 46368

S Naylor Pipe Company
O 1230 East 92nd Street
D CHICAGO, IL 60619-7997
T
O

Naylor Pipe Co. c/o Peralloy
6755 Waterway Dr.
PORTAGE, IN 46368

S
H
I
P
T
O

DATE/TIME SHIPPED 07/03/06 11:05	P.O.B. MILL PORTAGE, INDIANA	ROUTE/ CARRIER SLFP S&L/FMP/PORT	CAR/ VEHICLE ID. TRACTOR: 9506 TRAILER: AB
TRANS. MODE PP PREPAID TRUCK	TARE WEIGHT LBS. 0	EXCLUDED WEIGHT LBS. 0	B/L WEIGHT LBS. 109,230
		FREIGHT TERMS PPD PREPAID	

PRODUCT DESCRIPTION: HOT ROLLED BAND PRIME COIL MILL EDGE CONV. TO A139 GR B N/A

MATERIAL SHIPPED AS: HOT ROLLED BAND
ORDER 1027323 ORDERED DIMENSIONS .3600 X 41.7000 X COIL MIN

M/P/L: LOAD MUST BE TARPED
MARK EACH PIECE OR COIL WITH MATERIAL ID, WEIGHT, WIDTH AND GAUGE
THREE BANDS THRU EYE OF COIL AND TWO CIRCUMFERENTIAL BANDS

MATERIAL ID	HEAT NO.	DIMENSIONS	PCS	ACTUAL
346260	J2178	.3600 X 41.7000	1	36,320
ORDER TOTAL			1	36,320

Made and Melted in the USA

HEAT: J2178	C	MN	P	S	SI	CU	NI
FNLARL1	0.14	0.75	0.008	0.006	0.02	0.16	0.07
FNLARL1	0.05	0.026	0.021	0.001	0.002	0.008	0
FNLARL1	0.0026	0.01	0.001				

Robert M. Chase
USA Export/Import

42" conductor

36" Surface Casing



BETA STEEL CORP
 6500 S. BOUNDARY ROAD
 PORTAGE, IN 46368

PAGE: 1 of 1
 SHIPPER'S NO. 516533

DATE PRINTED 7/10/2006
 TIME PRINTED 12:07:50
 P.O. DATE 05/18/06
 P.O. NO. 53911
 BULLETIN(S): 59327

F BETA STEEL CORP
 R 6500 S. BOUNDARY ROAD
 O
 M PORTAGE, IN 46368

PART NO.
 INVOICE NO. BETA 141090
 MILL ORDER 1027323
 PICKUP NO. 134558

S Naylor Pipe Company
 O 1230 East 92nd Street
 L CHICAGO, IL 60619-7997
 D
 T
 O

Naylor Pipe Co. c/o Fer alloy
 6755 Waterway Dr.
 PORTAGE, IN 46368

S
H
I
P
T
O

DATE TIME SHIPPED 07/10/06 12:06	F.O.B. MILL PORTAGE, INDIANA	ROUTE/ CARRIER SLFP S&L/FME/PORT	CAR/ VEHICLE ID. TRACTOR: 9506 TRAILER: AB
TRANS. CODES CTR CUSTOMER TRUCK	TARE WEIGHT LBS. 0	EXCLUDED WEIGHT LBS. 0	B/L WEIGHT LBS. 72,250 FREIGHT TERMS COLLECT

PRODUCT DESCRIPTION: HOT ROLLED BAND PRIME COIL MILL EDGE CONV. TO A139 GR B N/A
 MATERIAL SHIPPED AS: HOT ROLLED BAND

ORDER ORDERED DIMENSIONS
 1027323 .3600 X 41.7000 X COIL MIN

M/P/L: LOAD MUST BE TARPED
 MARK EACH PIECE OR COIL WITH MATERIAL ID, WEIGHT, WIDTH AND GAUGE
 THREE BANDS THRU EYE OF COIL AND TWO CIRCUMFERENTIAL BANDS

MATERIAL ID	HEAT NO.	DIMENSIONS	PCS	ACTUAL
346256	50710	.3600 X 41.7000	1	36,070
346257	50710	.3600 X 41.7000	1	36,180
ORDER TOTAL			2	72,250

Made and Melted in the USA

HEAT: 50710	C	MN	P	S	SI	CU	NI
FNLARL1	0.15	0.61	0.005	0.004	0.02	0.11	0.04
	CR	AL	MO	V	CB	N	B
FNLARL1	0.04	0.027	0.014	0.001	0.002	0.009	0
	CA	SN	TI				
FNLARL1	0.0024	0.01	0.001				

Robert M Chase
 QA Representative

Изготовитель
Producer

ОАО "Харьковский трубный завод"

ул. Патона, 9, г. Харьков
Донецкой обл. 86703 УКРАИНА

PJSC "Khartsyzsk Tube Works"

9, Paton str. Khartsyzsk
Donetsk Reg. 86703 The UKRAINE



Грузополучатель, адрес
65026, Украина, г. Одесса, Таможенная пл. 1, Одесский морской торговый порт, США

Дата отгрузки
The date of load: 15.12.2006
Shipment

Система управления
сертифицирована по стандартам
Management System is certified in
accordance with the Standards
ISO 9001:2000; ДСТУ ISO 9001:2001;
API Spec Q1-Seventh Edition;
ISO 14001:2004;
OHSAS 18001:1999.
Продукция
сертифицирована по стандарту
Products is certified in accordance with
the Standard.
API Spec 5L:2004
API Spec 2B:2001.



Вагон
Waggon № 66723800

Заказ-наряд № 2491
Order №

Контракт № 633 от
Contract № 19.05.2005

СЕРТИФИКАТ КАЧЕСТВА № 38831
CERTIFICATE OF QUALITY

Страница 1 Страниц 2
Page Pages

Согласно: According: DIN 50049 3.18

Наименование товара Denomination of product	НД покрытия Standard for coating	НД труб Standard for pipes
Трубы стальные электросварные пряшовые, изготовленные методом дуговой сварки под флюсом Electric-welded longitudinal steel pipes, manufactured by the method of submerged arc welding under flux		API Spec 5L PSL 2 (43rd edition)

Марка стали Steel grade Класс прочности Strength factor	Номер трубы Pipe number	Номер плашки Heat number	Диаметр дюйм Dia-meter inch	Толщина дюйм Thick-ness Inch	Длина фут Length foot	Номер партии сварного соединения Weld joint lot number		Номер партии, покр. Lot number of coating	Гидроисп. давл. Hydrostatic test pressure, psi	
						Продольного Longitudinal	Поперечн. Transverse		Стандартное Standart	Альтернативное Alternative
Gr.B/X42	667301	0278	36	0.375	38.2	6673			790	
Gr.B/X42	667101	0302	36	0.375	38.8	6671			790	
Gr.B/X42	667501	0278	36	0.375	38.3	6675			790	
Gr.B/X42	667126	0302	36	0.375	39.3	6671			790	
Gr.B/X42	667122	0302	36	0.375	39.2	6671			790	
Gr.B/X42	667109	0302	36	0.375	39.2	6671			790	
Gr.B/X42	667117	0302	36	0.375	39.3	6671			790	
Gr.B/X42	667202	0325	36	0.375	39.3	6672			790	

FSI P.O. 1040157700

Electric-welded steel pipes with one longitudinal weld, made by the method of arc welding under flux (SAW). According to data available from the mill-supplier, steel plate used for pipe production was subjected to ultrasonic examination over the whole area - the results are satisfactory.

The preservative coating made by black bitumen lacquer is applied onto the whole external surface. Welded joints are UT examined along the whole length, calibration of equipment was performed on reference standard, which contains four machined notches N5 and one radially drilled hole-diameter-1.5 mm. Repaired and end sections of welded joints were tested by radiological examination with sensitivity not less than 2% thickness of welded joint. Full circumference of end metal of all pipes was UT examined. NDT results are satisfactory.

Tensile tests of mechanical parameters of metal and welded joints were performed on flat full-size specimens as per ASTM A370 with width in tested part of a specimen 1,496 in. Impact toughness test were performed on specimens cut out transversally to the rolling direction as per ASTM A370 by section size 0,394x0,394 in. at metal thickness 0,500 in. and 0,825 in., 0,394x0,295 at metal thickness 0,375 in. Tolerances on out-of-roundness and straightness of pipes are according to API 2B. Each pipe was subjected to hydrostatic testing, endurance time - 10 sec min.

Heat treatment of pipes and welded joints was not performed. All pipes are equipped with steel bevel protectors.
FSI P.O. 1040157700

Электросварные стальные трубы с одним продольным швом, изготовленные методом дуговой сварки под флюсом (SAW). По результатам завода поставщика стальной лист, из которого изготовлены трубы, подверглась ультразвуковому контролю по всей площади - результаты удовлетворительны.

На всю наружную поверхность труб нанесено консервационное покрытие, выполненное битумным черным лаком. Сварные соединения всех труб по всей длине проконтролированы ультразвуковым методом контроля, настройка оборудования осуществлялась на эталонном образце, имеющем четыре механически выполненных надреза N5 и одно радиально просверленное отверстие диаметром 1,6 мм. Ремонтные и концевые участки сварных соединений подвергались радиологическому методу контроля с чувствительностью не хуже 2% толщины сварного соединения. Полная окружность металла концов всех труб подвергалась ультразвуковому методу контроля. Результаты неразрушающих методов контроля - удовлетворительны.

Испытания механических свойств металла и сварных соединений на растяжение осуществлялись на плоских полномерных образцах по ASTM A370 с шириной в испытываемой части образца 1,496 in., испытания на ударный изгиб - на образцах, вырезанных в поперечном направлении прокатки по ASTM A370 размером в сечении 0,394x0,394 in при толщине металла 0,500 in. и 0,825 in., 0,394x0,295 in при толщине металла 0,375 in. Допуски по овальности и прямолинейности труб в соответствии с требованиями API 2B. Каждая труба подвергалась гидравлическому испытанию, время выдержки под давлением не менее 10 секунд. Термообработка труб и сварных соединений не производилась. Все трубы оборудованы металлическими протекторами для защиты фаски.

Quality of pipes included in this Certificate complies with the terms of the Contract and the requirements of Standard.

Погружено в вагон Loaded in waggon		Quality of pipes included in this Certificate complies with the terms of the Contract and the requirements of Standard.			
Количество Quantity, pcs	Общая длина труб, фут Total length of pipes, foot	Теор. масса труб, фунт Theor. mass of pipes, lb	Теор. масса труб, кг Theor. mass of pipes, kg	Теорет. масса покрытия, кг Theor. mass of coating, kg	Теорет. масса труб с покрытием, кг Theor. mass of pipes with coating, kg
8	311.6	44498	20117	0	

surface class 36" Iw

ПОКАЗАТЕЛИ КАЧЕСТВА

INDICES OF QUALITY

Механические свойства металла Mechanical properties of base metal										Механические свойства продольных сварн. соед. Mechanical properties of Longitudinal Weld Joints							
Номер плавки Heat number	Временн. сопротив- ление Ultimate strength along psi	Временн. сопротив- ление Ultimate strength across psi	Предел теку- щего удлине- ния Yield strength psi	Относи- тельное удлине- ние Relative elonga- tion, % S ₂	Энергия удара Impact energy, ft-lb					Номер партии Lot number	Временн. сопротив- ление Ultimate strength psi	Энергия удара Impact energy, ft-lb по U, W, KCV 32°F	Стаги- ческий изгиб Guided bend test	Твердость, Hardness HRC NACE MR0176			
					75	69	86	80	80					80	оон. металл. the base metal	терм. возд. heat- affected zone	металл. сварн. соед. weld metal
0276		78000	58000	35	75	69	86	80	80	80	6671	85000	44 48 52	sat	1	3	7
0278		78000	54000	39	94	83	82	90	90	90	6672	84000	61 53 68	sat	2	3	8
0302		78000	55000	38	63	59	68	80	80	80	6673	81000	78 79 80	sat	1	4	10
0325		79000	55000	40	59	66	68	80	80	80	6675	82000	55 51 52	sat	2	4	14
															1	3	11

Треб. контр. Requirement of Contract																	
--------------------------------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**Химический состав, %
Chemical composition, %**

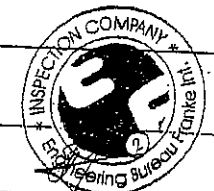
Номер плавки Heat number	CE x100 Pcm	C x100	Si x100	Mn x100	Al x1000	S x1000	P x1000	V x1000	Nb x1000	Ti x1000	Cu x100	Ni x100	Mo x100	N x1000	Ca x1000	B x10000														
																	33	34	16	16	21	21	105	107	45	48	5	5	14	14
0276	33	34	16	16	21	21	105	107	45	48	5	5	14	14	5	5	28	24	18	17	1	1	2	2	1	1	5	5		
0278	34	35	16	16	22	25	104	108	38	29	5	4	12	13	5	5	23	25	12	9	2	1	3	4	2	1	5	7	2	2
0302	31	31	15	15	21	21	90	99	49	44	7	7	14	13	5	5	10	10	5	5	3	3	4	4	2	2	7	7	2	2
0325	35	35	16	16	33	33	104	105	38	41	6	6	12	12	5	5	10	10	14	16	1	1	5	5	2	2	7	7		
	14	15	48	48	112	112	105	105	38	35	6	6	14	14	5	5	10	10	14	17	3	2	3	3	2	2	7	7		

Треб. контр. Requirement of Contract																	
--------------------------------------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**Антикоррозионное покрытие
Anticorrosive Coating**

Номер партии покрытия труб Lot number of coating pipes	Толщина наружного покрытия, мм Thickness of outer coating no less, mm	Шифр материал. покрытия Code of coating materials	Материалы покрытия Coating Materials			Результаты испытания партий антикоррозионного покрытия труб; не менее Lots anticorrosive coating of pipes test results, no less		
			Основной слой Basic layer	Адгезионный слой Adhesive layer	Грунтовочный слой Primer layer	Диэлектр. сплошн., кВ Dielectrical solidity, KV	Прочность при удара, Дж Impact strength, J	Прочность связи, Н/см Peel strength, N/cm

REVIEWED
PERFECTLY
15.12.2006



Подписи:
Signatures:
№ 38
2/2

26" Intermediate Casing

3/21/2008

Report 1008
Version 1.0
12/18/2007

**CERTIFIED REPORT OF CHEMICAL ANALYSIS
AND MECHANICAL TESTS**



ArcelorMittal

NAYLOR PIPE C/O NACME STEEL PROCESSING 429 WEST 127TH ST CHICAGO IL	Mittal Steel Riverdale 13500 South Perry Avenue Riverdale, IL 60827
NAYLOR PIPE C/O NACME C/O NACME STEEL PROCESSING 429 WEST 127TH ST CHICAGO IL	PO#: 54416/1 Invoice #: 0500011972 SO#: 374304 Carrier: MITTAL RIVERD Shipped: 3/22/2008

Coil	Thickness (in)	Width (in)	Weight (tons)	End Use	Reduction Ratio
763408	0.360	48.875	16.2	SPIRAL BUTTWE	83.37% (6:1)
763407	0.360	48.875	18.1	SPIRAL BUTTWE	83.37% (6:1)
763408	0.360	48.875	17.6	SPIRAL BUTTWE	83.37% (6:1)
763409	0.360	48.875	17.5	SPIRAL BUTTWE	83.37% (6:1)
763410	0.360	48.875	20.1	SPIRAL BUTTWE	83.37% (6:1)

Grade	Part Number	Comments
ASTM A139 GRD B MOD1	HB3604887-01	

We certify that this material meets the provisions of the 'Buy America' program. This material was melted and manufactured in the USA. All products are strand cast and free of mercury or radioactive elements. Elongation based on 2" gage length.

Coil	Yield	Tensile	% El	Dir	N-Value	N-Range	Hardness	Bend	Pt-lbs	*F	Size	Dir

Heat	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Cb	V	Al	N	Sn	B	Bi	Ca	Se	O	H
A17856	.22	.77	.008	.005	.03	.05	.01	.03	.01	.000	.002	.028	.0047	.005	.0000	.0020	.0020	.0000		

We hereby certify the above is correct as contained in the records of the corporation

Peter Gaudreau

26

I w inter mediate



We accept no responsibility nor liability for results derived from misinformation, not samples not representative of the corresponding material, nor a limited sampling plan nor insufficient testing. The information provided is for the private use of our client and may not be published without our expressed consent.

METALLURGICAL SERVICES
(708) 544-8811 544-8820 FAX

Naylor Pipe Company
1230 E. 92nd St.
Chicago, IL 60619-7997

Attn : James Martin

Laboratory:
837 MANNHEIM RD.
BELLWOOD, IL 60104

Date 04-Apr-2008
received - 03-Apr-2008
Report 108 14100 c of pages
Account 1302
P.O. 2441

our 29th year est. 197

Test report /

Sample identity	Y.S. lbs/in ²	T.S. lbs/in ²	%E 2"
V81851 3/8"x48" Mittal /A17856	48,200	74,000	35.0

ASTM A252 gr3 min. requirements	45,000	66,000	20.00
------------------------------------	--------	--------	-------

This samples reported properties conform to the requirements of an ASTM A252 gr3 material.

CHRISTOPHER M. PROPP
PROFESSIONAL ENGINEER
REGISTRATION #00449
STATE OF ILLINOIS

Mechanical:ASTM E8/A370 Y.S.0.2%offset []trans. *broke out of g.l. 11" g.l.

26" later recheck

10/4/2008

Report: 108
Version 1.5
04/11/2008

**CERTIFIED REPORT OF CHEMICAL ANALYSIS
AND MECHANICAL TESTS**

MITTAL

Riverdale

NAYLOR PIPE C/O NACME STEEL PROCESSING 429 WEST 127TH ST CHICAGO IL	Mittal Steel Riverdale 13500 South Perry Avenue Riverdale, IL 60827
NAYLOR PIPE C/O NACME C/O NACME STEEL PROCESSING 429 WEST 127TH ST CHICAGO IL	PO#: 53959 Invoice # SO#: 276121 Carrier: MITTAL RIVERD Shipped: 10/3/2008

Coil	Thickness (in)	Width (in)	Weight (tons)	End Use	Reduction Ratio
716869	0.375	52.400	17.7	EXCESS	82.68% (6:1)

Grade	Part Number	Comments
1021	HX3755240-01	

We certify that this material meets the provisions of the 'Buy America' program. This material was milled and manufactured in the USA. All products are strand cast and free of mercury or radioactive elements. Elongation based on 2" gage length.

Coil	Yield	Tensile	% El	N-Value	N-Range	Hardness	Bend	Ft-lbs	°F	Size	Dir
716871	86.8 KSI	84.6 KSI	23.0 %								
	65.7 KSI	84.5 KSI	24.0 %								

Heat	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Cb	V	Al	N	Sn	B	Ti	Ca
815481	.21	.96	.008	.001	.20	.03	.01	.03	.00	.001	.004	.036	.0053	.002	.0000	.0030	.0020

We hereby certify the above is correct as contained in the records of the corporation

Glen McAdam
Glen McAdam

26" Intermediate



METALLURGICAL SERVICES
(708) 544-8811 544-8820 FAX

Naylor Pipe Company
1230 E. 92nd St.
Chicago, IL 60619-7997

Attn : James Martin

We accept no responsibility nor liability for results derived from
misinformation, not samples not representative of the corre-
sponding material, nor a limited sampling plan or insufficient
testing. The information provided is for the private use of our
client and may not be published without our expressed consent.

Laboratory:
837 MANNHEIM RD.
BELLWOOD, IL 60104

Date 22-Mar-2007
received ~ 21-Mar-2007
Report 107 12059 a of a
Account 1302 pages
P.O. 2553

our 28th year est. 1979

Test report /

Sample identity	Y.S. lbs/in ²	T.S. lbs/in ²	ZE 2"
V63002 3/8"x48" Mittal /B15481	54,200	81,600	32.0
ASTM A252 gr3 min. requirements	45,000	66,000	20.00

This samples reported properties conform to the
requirements of an ASTM A252 gr3 material.

CHRISTOPHER J. PATRICK
PROFESSIONAL ENGINEER
REGISTRATION #38893
STATE OF ILLINOIS
[Signature]

Mechanical: ASTM E8/A370 Y.S. 0.2%offset (J)trans. *broke out of g.l. 11" g.l.
03-22-07P04:16 RCVD
03-22-07P04:10 CFND

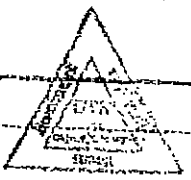
16" Final Casing

ADDITIONAL INFORMATION

LINE	QTY	UNIT	DESCRIPTION	AMOUNT	TAX	TOTAL
1	1	EA	...	...	...	...
2	1	EA	...	...	...	...
3	1	EA	...	...	...	...
4	1	EA	...	...	...	...
5	1	EA	...	...	...	...
6	1	EA	...	...	...	...
7	1	EA	...	...	...	...
8	1	EA	...	...	...	...
9	1	EA	...	...	...	...
10	1	EA	...	...	...	...
11	1	EA	...	...	...	...
12	1	EA	...	...	...	...
13	1	EA	...	...	...	...
14	1	EA	...	...	...	...
15	1	EA	...	...	...	...
16	1	EA	...	...	...	...
17	1	EA	...	...	...	...
18	1	EA	...	...	...	...
19	1	EA	...	...	...	...
20	1	EA	...	...	...	...
21	1	EA	...	...	...	...
22	1	EA	...	...	...	...
23	1	EA	...	...	...	...
24	1	EA	...	...	...	...
25	1	EA	...	...	...	...
26	1	EA	...	...	...	...
27	1	EA	...	...	...	...
28	1	EA	...	...	...	...
29	1	EA
30	1	EA
31	1	EA
32	1	EA
33	1	EA
34	1	EA
35	1	EA
36	1	EA
37	1	EA
38	1	EA
39	1	EA
40	1	EA
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42	1	EA
43	1	EA
44	1	EA
45	1	EA
46	1	EA
47	1	EA
48	1	EA
49	1	EA
50	1	EA


PAGE 03/11

THE CUSTOMER THAT VISIT THIS WEBSITE HAS BEEN ADVISED BY THE COMPANY AND
 HAS AGREED BY VISITING AND USING THE WEBSITE THAT THE COMPANY IS NOT RESPONSIBLE FOR ANY
 DAMAGES, INCLUDING BUT NOT LIMITED TO, DIRECT, INDIRECT, INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES, ARISING FROM THE USE OF THE WEBSITE.



DATE: 10/07/2008
 TIME: 17:48
 USER: [Signature]

16" Final Jw



"VOLEISAT PIPE PLANT"
HTFC

40418A Voleisat 16 (02/02/08) 16.0000
 Part: (70464) 16-00-02
 Email: (92) @ SPADOT-16.coal.ru

SIZE 1 OF 1

LINE	SHEET NO	SHEET TITLE	LOC NO	COMP. STY. TYPE	LAYOUT PLAN	SHEET NUMBER	DIMENSIONAL SPECIFICATION																MATERIAL	REMARKS																																																																																			
							D	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15			R16																																																																																		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100								
							100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200

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ISSUED - 10/02/08
 CHECKED - 10/02/08
 DATE 10/02/08

16" Final Icu

<p>VOLKSWAGEN TRUCKS</p>	<p>"VOLKSWAGEN TRUCK PLANT" QJSC</p>	<p>404118, Volodymyr Holynovych, Ukraine Fax: (704) 25-03-01 E-mail: HQ@VOLKSWAGEN.COM</p>
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PAGE 3 OF 7

MANUFACTURER:
VOLKSWAGEN TRUCK PLANT QJSC, YERKIN, VOLKSWAGEN TRUCKS

MTL 03070400000000
APR 15/04 16:13:17. THE JOB IS: LISA
MANUFACTURER OF WORK
CASH ON DELIVERY 100% (100%)
100% (100%)
100% (100%)
100% (100%)

REVISIONS
707 REVISED BY DR. STY 100
REVISIONS: 000000

LINE	ITEM	QTY	MATERIALS			COMPOSITE												SUBTOTAL				TOTAL			REMARKS
			QTY	WT	VAL	1	2	3	4	5	6	7	8	9	10	11	12	QTY	WT	VAL					
1
<p>REVISIONS:</p> <p>1: H. NEW MODEL, P. NEW MODEL, Q. NEW MODEL, R. NEW MODEL, S. NEW MODEL, T. NEW MODEL, U. NEW MODEL, V. NEW MODEL, W. NEW MODEL, X. NEW MODEL, Y. NEW MODEL, Z. NEW MODEL</p> <p>2: H. NEW MODEL, P. NEW MODEL, Q. NEW MODEL, R. NEW MODEL, S. NEW MODEL, T. NEW MODEL, U. NEW MODEL, V. NEW MODEL, W. NEW MODEL, X. NEW MODEL, Y. NEW MODEL, Z. NEW MODEL</p> <p>3: H. NEW MODEL, P. NEW MODEL, Q. NEW MODEL, R. NEW MODEL, S. NEW MODEL, T. NEW MODEL, U. NEW MODEL, V. NEW MODEL, W. NEW MODEL, X. NEW MODEL, Y. NEW MODEL, Z. NEW MODEL</p> <p>4: H. NEW MODEL, P. NEW MODEL, Q. NEW MODEL, R. NEW MODEL, S. NEW MODEL, T. NEW MODEL, U. NEW MODEL, V. NEW MODEL, W. NEW MODEL, X. NEW MODEL, Y. NEW MODEL, Z. NEW MODEL</p> <p>5: H. NEW MODEL, P. NEW MODEL, Q. NEW MODEL, R. NEW MODEL, S. NEW MODEL, T. NEW MODEL, U. NEW MODEL, V. NEW MODEL, W. NEW MODEL, X. NEW MODEL, Y. NEW MODEL, Z. NEW MODEL</p>																									



16" Final Ice

38/10:35 KAI 314 842 3685

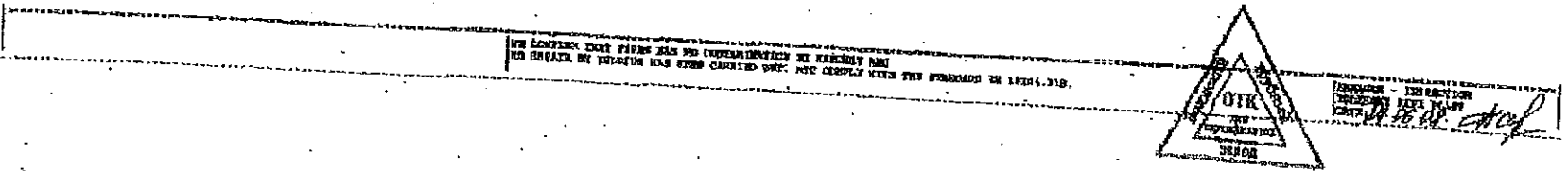
VICTORY STEEL

006

SCHEDULE
SECTION 5

NO.	DESCRIPTION	QTY	UNIT	AMOUNT
1	PIPE 16" DIA. X 1/2" THICK	1	LINEAL FOOT	200
2	PIPE 16" DIA. X 1/4" THICK	1	LINEAL FOOT	100
3	PIPE 16" DIA. X 1/8" THICK	1	LINEAL FOOT	50
4	PIPE 16" DIA. X 1/16" THICK	1	LINEAL FOOT	25
5	PIPE 16" DIA. X 3/32" THICK	1	LINEAL FOOT	12.5
6	PIPE 16" DIA. X 1/32" THICK	1	LINEAL FOOT	6.25
7	PIPE 16" DIA. X 1/64" THICK	1	LINEAL FOOT	3.125
8	PIPE 16" DIA. X 1/128" THICK	1	LINEAL FOOT	1.5625
9	PIPE 16" DIA. X 1/256" THICK	1	LINEAL FOOT	0.78125
10	PIPE 16" DIA. X 1/512" THICK	1	LINEAL FOOT	0.390625
11	PIPE 16" DIA. X 1/1024" THICK	1	LINEAL FOOT	0.1953125
12	PIPE 16" DIA. X 1/2048" THICK	1	LINEAL FOOT	0.09765625
13	PIPE 16" DIA. X 1/4096" THICK	1	LINEAL FOOT	0.048828125
14	PIPE 16" DIA. X 1/8192" THICK	1	LINEAL FOOT	0.0244140625
15	PIPE 16" DIA. X 1/16384" THICK	1	LINEAL FOOT	0.01220703125
16	PIPE 16" DIA. X 1/32768" THICK	1	LINEAL FOOT	0.006103515625
17	PIPE 16" DIA. X 1/65536" THICK	1	LINEAL FOOT	0.0030517578125
18	PIPE 16" DIA. X 1/131072" THICK	1	LINEAL FOOT	0.00152587890625
19	PIPE 16" DIA. X 1/262144" THICK	1	LINEAL FOOT	0.000762939453125
20	PIPE 16" DIA. X 1/524288" THICK	1	LINEAL FOOT	0.0003814697265625
21	PIPE 16" DIA. X 1/1048576" THICK	1	LINEAL FOOT	0.00019073486328125
22	PIPE 16" DIA. X 1/2097152" THICK	1	LINEAL FOOT	0.000095367431640625
23	PIPE 16" DIA. X 1/4194304" THICK	1	LINEAL FOOT	0.0000476837158203125
24	PIPE 16" DIA. X 1/8388608" THICK	1	LINEAL FOOT	0.00002384185791015625
25	PIPE 16" DIA. X 1/16777216" THICK	1	LINEAL FOOT	0.000011920928955078125
26	PIPE 16" DIA. X 1/33554432" THICK	1	LINEAL FOOT	0.0000059604644775390625
27	PIPE 16" DIA. X 1/67108864" THICK	1	LINEAL FOOT	0.00000298023223876953125
28	PIPE 16" DIA. X 1/134217728" THICK	1	LINEAL FOOT	0.000001490116119384765625
29	PIPE 16" DIA. X 1/268435456" THICK	1	LINEAL FOOT	0.0000007450580596923828125
30	PIPE 16" DIA. X 1/536870912" THICK	1	LINEAL FOOT	0.00000037252902984619140625
31	PIPE 16" DIA. X 1/1073741824" THICK	1	LINEAL FOOT	0.000000186264514923095703125
32	PIPE 16" DIA. X 1/2147483648" THICK	1	LINEAL FOOT	0.0000000931322574615478515625
33	PIPE 16" DIA. X 1/4294967296" THICK	1	LINEAL FOOT	0.00000004656612873077392578125
34	PIPE 16" DIA. X 1/8589934592" THICK	1	LINEAL FOOT	0.000000023283064365386962890625
35	PIPE 16" DIA. X 1/17179869184" THICK	1	LINEAL FOOT	0.0000000116415321826934814453125
36	PIPE 16" DIA. X 1/34359738368" THICK	1	LINEAL FOOT	0.00000000582076609134674072265625
37	PIPE 16" DIA. X 1/68719476736" THICK	1	LINEAL FOOT	0.000000002910383045673370361328125
38	PIPE 16" DIA. X 1/137438953472" THICK	1	LINEAL FOOT	0.0000000014551915228366851806640625
39	PIPE 16" DIA. X 1/274877906944" THICK	1	LINEAL FOOT	0.00000000072759576141834259033203125
40	PIPE 16" DIA. X 1/549755813888" THICK	1	LINEAL FOOT	0.000000000363797880709171295166015625
41	PIPE 16" DIA. X 1/1099511627776" THICK	1	LINEAL FOOT	0.0000000001818989403545856475830078125
42	PIPE 16" DIA. X 1/2199023255552" THICK	1	LINEAL FOOT	0.00000000009094947017729282379150390625
43	PIPE 16" DIA. X 1/4398046511104" THICK	1	LINEAL FOOT	0.000000000045474735088646411895751953125
44	PIPE 16" DIA. X 1/8796093022208" THICK	1	LINEAL FOOT	0.0000000000227373675443232059478759765625
45	PIPE 16" DIA. X 1/17592186044416" THICK	1	LINEAL FOOT	0.00000000001136868377216160297393798828125
46	PIPE 16" DIA. X 1/35184372088832" THICK	1	LINEAL FOOT	0.000000000005684341886080801486968994140625
47	PIPE 16" DIA. X 1/70368744177664" THICK	1	LINEAL FOOT	0.00000000000284217094304040074348449707265625
48	PIPE 16" DIA. X 1/140737488355328" THICK	1	LINEAL FOOT	0.000000000001421085471520200371742248536328125
49	PIPE 16" DIA. X 1/281474976710656" THICK	1	LINEAL FOOT	0.0000000000007105427357601001858711242681640625
50	PIPE 16" DIA. X 1/562949953421312" THICK	1	LINEAL FOOT	0.0000000000003552713678800500929355621342303125

PAGE 2 OF 1



WE WARRANT THAT THIS PIPE HAS NO DEFECTS OF WORKMANSHIP AT THE TIME OF
 THE REPAIR BY WHICH IT HAS BEEN CARRIED OUT. WE ACCEPT WITH THE STANDARD OF 1994.318.



INSPECTED - 12/12/11
 12/12/11
 12/12/11

16" Final Iw



ORIGINAL

These are the steel pipe manufacturers for your request and already approved. Please all the pipes are qualified to issue this certificate especially.
 Name of goods: 16" SCH 40S PIPE
 Specification: API 5L X42
 Letter of enquiry No. 161010
 Inspection weight is okay: total 100 Pcs/120.05 M/ 274.880 MT
 Certificate No. 1 USA-022
 Size: 16" x 0.375"

Heat No	Consignment Quantity		Chemical Composition OF Material %									Hardness (HRB) max	Test Pressure 6.5Mpa ≥100	Size and Visual	NDT	
	Pipe (Joint)	Length (M)	C	Si	Mn	P	S	Nb	V	Ti	Caq				UT	RT
7P07019	15	179.00	15	34	130	1.3	0.2	0.1	0.2	0.2	/	80	OK	OK	OK	OK
7P07021	14	167.00	15	35	140	1.3	0.2	0.1	0.2	0.2	/	79	OK	OK	OK	OK
7P07022	16	191.00	15	31	140	1.6	0.3	0.1	0.2	0.2	/	79	OK	OK	OK	OK
7P07023	12	143.91	16	32	140	1.9	0.2	0.1	0.2	0.2	/	80	OK	OK	OK	OK
7P06882	1	12.00	15	36	139	1.7	0.5	0.1	0.2	0.2	/	77	OK	OK	OK	OK

Mechanical Properties Of Welding seam			Mechanical Properties Of Material			Material Temp. 5°C	Average (J)
Rm Mpa	Cold-bending 180°		Y.S. Rp0.5Mpa	Y.S. Rm Mpa	EL. A%		
	Face-bending	Root-bending					
560	OK	OK	325	553	39	/	
530	OK	OK	380	543	39	/	
530	OK	OK	385	545	39	/	
555	OK	OK	380	550	40	/	
535	OK	OK	380	529	38	/	

Explain:

1. FINISH OF MANUFACTURE: GALVANNEAL LINE MARK
2. 16" SCH 40S x 0.375" GALVANNEAL PIPE
3. ALL DIMENSIONS ARE OK
4. PHYSICAL PROPERTY TESTS: ALL OK (LOCATION OF SPECIMENS IS)
5. THE QUALITY INSPECTION REPORT SHOWS THE QUALITY OF TRANSPORTATION, STORAGE AND USE.
6. ALL DIMENSIONS ARE OK AND ALL DIMENSIONS ARE OK. ALL DIMENSIONS ARE OK AND ALL DIMENSIONS ARE OK.
7. ALL DIMENSIONS ARE OK AND ALL DIMENSIONS ARE OK.
8. ALL DIMENSIONS ARE OK AND ALL DIMENSIONS ARE OK.



Factory in charge: Yang Shichang Inspector: Zhang Jie Date of Issue: January 2, 2008 Address: 1 NO. JIANGNANZI HARBORING ROAD LIANYANG CITY LIAONING PROVINCE P.R. CHINA

张杰 *张杰*

16" Final Id

LIAOYANG STEEL TUBE CO. LTD

QUALITY CERTIFICATE

Weeds we confirm the steel pipe manufactured for your company are of quality approved
 above all the pipes are qualified to issue this certificate especially.
 Name of grade: 20# ERW SEAMLESS PIPE
 Name: HSH TRADE INTERNATIONAL LTD
 Quantity: 158000.1318A



ORIGINAL

Heat No	Consignment Quantity		Chemical Composition of Material %								Hardness (HRB) max	Test Pressure 6.5Mpa ≥ 106	Size and visual	ND UT
	Pipe (Joint)	Length (FT)	C	Si	Mn	P	S	NO	V	Ti				
70C04146	47	1849.10	14	27	146	0.4	0.7	0.1	0.1	0.2	76	OK	OK	OK
70C04213	48	1888.80	15	28	145	0.3	0.6	0.1	0.1	0.2	79	OK	OK	OK
70B03141	29	1140.30	14	26	147	0.4	0.5	0.1	0.1	0.2	74	OK	OK	OK

Mechanical Properties Of Welding seam			Mechanical Properties Of Material			Material Impact U _T AVERAGE (J)
Hm Mpa	Cold-bending 180°		YS Rp0.5Mpa	TS Km Mpa	EL AS%	
	Face-bending	Root-bending				
530	OK	OK	370	545	36	95
540	OK	OK	365	530	34	93
520	OK	OK	365	530	38	92

1. PROGRAM OF MANUFACTURE CHECKED ON DRAW
2. UT SIZE OF 0.017 IN WALL THICKNESS
3. AS 4080 20#
4. PROCESS OF TUBES END FINISHING (REWORK OF REWORK IS SPECIALLY CONTROLLED THROUGH SYSTEM CONTROL OF PRODUCTION)
5. THE QUALITY INSPECTOR MUST INCLUDE THE QUALITY OF TRANSPORTATION IS UNCHANGING
6. MEASUREMENT PIPE NO AND ATTACHED
7. BY TYPING REPORT OF TEST, THE MANUFACTURE SHOULD PRINT OR STAMP THE REPORT FOR WELDING AND PIPE NO. ALONG WITH THE REPORT IS ATTACHED
8. ALL PIPES DELIVERED ARE AS PER APPROVAL IN DRAWING AND SPECIFICATIONS IN TECHNICAL DRAWING
9. ALL DIMENSIONS PERFORMED BY THE END OF THE PIPE, AND WITH BOTH FACE OF PIPE
10. ALL DIMENSIONS SHOULD BE WITHIN TOLERANCE
11. THE QUALITY OF THE TUBES IS NOT TO BE AFFECTED BY THE TREATMENT

Person in charge: *[Signature]* Inspector: *[Signature]* Date of Issue: August 21, 2007 Address: 1 NO XUYUANDEI FANBOCANG ROAD LIAOYANG, CHINA



16" Final Jw



DUAL ZONE DEEP MONITOR WELL

34" Conductor Casing



MILL CERTIFICATE

COMMODITY: CARBON STEEL PIPE PER SALES CONTRACT
 NO. SEUSFP6C02TD3 DATED DECEMBER 11, 2006.
 CUSTOMER: OZONE INDUSTRIES CORPORATION
 15465 PINE RIDGE ROAD
 FORT MYERS, FL 33908

CERTIFICATE NO: PSCNR46C0ETCS
 DATE OF ISSUE: 4/29/2007

Invoice No. SEUSFP6C02TD3
 LC NUMBER: 5279996

The CARBON STEEL PIPES are tested according to ASTM A139 GR.B
 This is to certify that in accordance with the relevant specifications and contracts.
 The CARBON STEEL PIPES manufactured were tested and qualified by our Quality Control Department.

TOTAL : 746 PCS / 29840FT / 1769.619MT

Pipes No.	Heat Numbers	Steel	Size			Quantity			Dimensional	TESTING RESULTS											Flaking	UT Test		
			O.D.	W.T.	Length	Pcs	ft	MT		Inspection	CHEMICAL PROPERTIES(%)					PHYSICAL PROPERTIES			Welding properties	Hydrostatic Test Holding time: 10s.			Test (B)	Test (B)
											Grade	in	in	ft	C	Si	Mn	P							S	σs(Mpa)	σb(Mpa)	δ5(%)
120	013807	B	34	0.375	40	2	80	4.892	OK	0.16	0.21	0.42	0.012	0.030	325	420	32	OK	500	OK	OK			
121	047305	B	34	0.375	40	3	120	7.338	OK	0.19	0.25	0.48	0.015	0.033	315	425	31.5	OK	500	OK	OK			
122	048101	B	34	0.375	40	3	120	7.338	OK	0.14	0.19	0.38	0.018	0.028	310	420	31	OK	500	OK	OK			
123	068501	B	34	0.375	40	3	120	7.338	OK	0.15	0.20	0.39	0.010	0.030	315	425	31.5	OK	500	OK	OK			
124	055204	B	34	0.375	40	3	120	7.338	OK	0.17	0.22	0.43	0.014	0.032	300	425	32	OK	500	OK	OK			
125	065207	B	34	0.375	40	3	120	7.338	OK	0.18	0.24	0.44	0.013	0.031	295	420	31	OK	500	OK	OK			
126	065024	B	34	0.375	40	3	120	7.338	OK	0.15	0.18	0.38	0.010	0.027	300	425	31	OK	500	OK	OK			
127	042603	B	34	0.375	40	3	120	7.338	OK	0.17	0.21	0.42	0.013	0.030	300	420	32	OK	500	OK	OK			
128	237804	B	34	0.375	40	3	120	7.338	OK	0.16	0.20	0.40	0.012	0.032	285	425	31	OK	500	OK	OK			
129	048103	B	34	0.375	40	3	120	7.338	OK	0.18	0.23	0.43	0.016	0.032	295	425	30.5	OK	500	OK	OK			
130	055206	B	34	0.375	40	3	120	7.338	OK	0.16	0.22	0.44	0.011	0.031	280	425	31	OK	500	OK	OK			
131	055206	B	34	0.375	40	3	120	7.338	OK	0.18	0.24	0.44	0.017	0.033	300	420	31	OK	500	OK	OK			
132	047302	B	34	0.375	40	3	120	7.338	OK	0.19	0.25	0.48	0.015	0.032	310	420	31	OK	500	OK	OK			
133	047307	B	34	0.375	40	3	120	7.338	OK	0.17	0.24	0.45	0.015	0.032	285	425	32	OK	500	OK	OK			
134	055001	B	34	0.375	40	3	120	7.338	OK	0.18	0.25	0.47	0.016	0.033	305	425	31	OK	500	OK	OK			
135	054404	B	34	0.375	40	3	120	7.338	OK	0.15	0.19	0.39	0.014	0.029	305	420	32	OK	500	OK	OK			
136	054403	B	34	0.375	40	2	80	4.892	OK	0.15	0.19	0.39	0.014	0.029	305	420	32	OK	500	OK	OK			

YIH CORPORATION LIMITED

34" Dia

YIELD CORPORATION LIMITED

MILY. CERTIFICATE

QDITY: CARBON STEEL PIPE PER SALES CONTRACT
 NO. SEUSFF6C02TD3 DATED DECEMBER 11, 2006
 MER: OZONE INDUSTRIES CORPORATION
 1463 PINE RIDGE ROAD
 FORT MYERS, FL 33908

extra 16'

CERTIFICATE NO: PSCFON6001TC3
 DATE OF ISSUE: 4/29/2007

Invoice No. SEUSFF6C02TD3
 LC NUMBER: 5279996

RBON STEEL PIPES are tested according to ASTM A 139 GR. B
 to certify that in accordance with the referenced specifications and contracts.

RBON STEEL PIPES manufactured were tested and qualified by our Quality Control Department

TOTAL : 746 PCS / 29240FT / 1769.619MT

Heat Numbers	Steel Grade	Size			Quantity			Dimensional Inspection	TESTING RESULTS										Flattening Test (B)	UT Test
		O.D.	W.T.	Length	Pcs	L	MT		CHEMICAL PROPERTIES(%)					PHYSICAL PROPERTIES			Welding Properties	Hydrostatic Test Holding Pressure		
									C	SI	Mn	P	S	σs(Mpa)	σb(Lqpa)	δ5(%)				
045505	B	34	0.375	40	3	120	7.338	OK	0.17	0.23	0.44	0.012	0.031	320	425	31	OK	500	OK	OK
014601	B	34	0.375	40	3	120	7.338	OK	0.15	0.20	0.39	0.010	0.029	300	420	32	OK	500	OK	OK
014404	B	34	0.375	40	3	120	7.338	OK	0.18	0.22	0.43	0.011	0.030	325	425	31.5	OK	500	OK	OK
052207	B	34	0.375	40	2	80	4.892	OK	0.17	0.24	0.45	0.013	0.031	310	420	31	OK	500	OK	OK
048702	B	34	0.375	40	3	120	7.338	OK	0.18	0.26	0.45	0.014	0.032	315	425	31	OK	500	OK	OK
054801	B	34	0.375	40	3	120	7.338	OK	0.17	0.26	0.44	0.015	0.032	315	420	30.5	OK	500	OK	OK
054804	B	34	0.375	40	3	120	7.338	OK	0.15	0.21	0.42	0.012	0.030	320	425	31	OK	500	OK	OK
064603	B	34	0.375	40	3	120	7.338	OK	0.15	0.19	0.40	0.009	0.028	305	420	32	OK	500	OK	OK
054605	B	34	0.375	40	3	120	7.338	OK	0.17	0.24	0.39	0.012	0.031	315	420	32	OK	500	OK	OK
042902	B	34	0.375	40	3	120	7.338	OK	0.18	0.22	0.34	0.011	0.028	315	420	31.5	OK	500	OK	OK
064401	B	34	0.375	40	2	80	4.892	OK	0.18	0.26	0.37	0.014	0.031	305	425	32	OK	500	OK	OK
064200	B	34	0.375	40	3	120	7.338	OK	0.17	0.23	0.40	0.018	0.030	305	425	31.5	OK	500	OK	OK
053802	B	34	0.375	40	3	120	7.338	OK	0.16	0.22	0.36	0.013	0.027	310	426	32	OK	500	OK	OK
047501	B	34	0.375	40	3	120	7.338	OK	0.16	0.21	0.39	0.012	0.029	305	420	32.5	OK	500	OK	OK
069105	B	34	0.375	40	3	120	7.338	OK	0.19	0.27	0.43	0.015	0.032	310	426	32	OK	500	OK	OK
047305	B	34	0.375	40	3	120	7.338	OK	0.18	0.20	0.35	0.009	0.028	305	420	32.5	OK	500	OK	OK
065701	B	34	0.375	40	2	80	4.892	OK	0.15	0.16	0.35	0.009	0.024	290	420	30.4	OK	500	OK	OK

YIELD CORPORATION LIMITED

34" Dma



MILL CERTIFICATE

DATE: 2007-12-12

COMMODITY: CARBON STEEL PIPE PER PURCHASE CONTRACT 02110707001
 COST AND FREIGHT MIAMI, FLORIDA USA
 CUSTOMER: OZONE INDUSTRIES CORPORATION
 15465 PINE RIDGE ROAD
 FORT MYERS, FL 33908

Invoice No SEUSFP7B01TD3
 Certificate No.: PSCNN7B01TC5
 LC NUMBER: 64405432

Pipe No.	Heat Numbers	Steel Grade	(Size)			Quantity			Dimensional Inspection	TEST RESULTS												
			G.D.	W.T.	length	(Pcs)	(ft)	(MT)		CHEMICAL PROPERTIES(%)					PHYSICAL PROPERTIES			Welding properties	Hydrostatic Test Holding time: 10s	Flattening	UT Test	
			in	lb	ft	C	Si	Mn		P	S	σ _s (Mpa)	σ _b (Mpa)	δ ₅ (%)	cb	P = Pd	Test (B)					Test (B)
1	R7303773	B	34	0.375	39	104	4058	248.137	OK	0.13	0.14	0.39	0.025	0.031	365	425	31.5	OK	505	OK	OK	
2	R7303774	B	44	0.375	39	52	2028	160.067	OK	0.14	0.16	0.39	0.013	0.034	365	425	31.5	OK	505	OK	OK	
3	R730376	B	54	0.375	38	51	1888	194.056	OK	0.16	0.16	0.42	0.018	0.031	355	420	32.5	OK	505	OK	OK	
TOTAL						207	8073	803.160														

Remark: The CARBON STEEL PIPES are tested according to ASTM A139 GR B
 This is to certify that in accordance with the relevant specifications and contracts,
 The CARBON STEEL PIPES manufactured were tested and qualified by our Quality Control Department.

34" Dma

24" Surface Casing

LIAOYANG LARGE-SCALE STEEL PIPE PLANT MILL TEST CERTIFICATE

Description: NEWLY PRODUCED PRIME QUALITY STEEL PIPE
ASTM/ASME A/SA 53-B EDITION 2002

CERTIFICATE No. 1785

PO.No: SF/QT3025

DATE: 2007.07.27

NO.	HEAT NO.	PIECES	SIZE			WEIGHT (kg/m)	TOTAL WEIGHT (MT)	CHEMICAL COMPOSITION (wt%)									BASE METAL MECHANICAL PROPERTIES		
			OD (Inch)	WT (Inch)	length (ft)			C	Mn	P	S	Cu	NI	Cr	Mo	V	Y.S. (MPa)	T.S. (MPa)	ELONGATION (%)
1	07AD3117	1	24	0.375	20	140.420	0.856	0.13	0.84	0.012	0.005	0.008	0.015	0.019	0.002	0.001	305	465	31
2	07AD3118	71	24	0.875	20	140.420	60.983	0.18	0.85	0.016	0.003	0.006	0.008	0.028	0.004	0.001	310	480	33
3	07AD3119	97	24	0.875	20	140.420	63.313	0.12	0.84	0.011	0.005	0.009	0.015	0.018	0.002	0.001	285	440	34
4	07AD3120	2	24	0.875	40	143.090	3.490	0.14	0.85	0.011	0.006	0.002	0.007	0.017	0.003	0.001	315	480	32
5	07BD3036	24	24	0.876	40	143.090	41.870	0.14	0.84	0.010	0.005	0.006	0.015	0.018	0.002	0.001	308	450	34
NO.	HEAT NO.	WELD JOINT MECHANICAL PROPERTIES					FLATTENING	VISUAL & DIMENSIONS	U.T.	HYDROSTATIC PRESSURE (KPa)	DURATION OF TIME (h)								
1	07AD3117	465					OK	OK	OK	4500	10								
2	07AD3118	460					OK	OK	OK	4500	10								
3	07AD3119	440					OK	OK	OK	4500	10								
4	07AD3120	450					OK	OK	OK	4500	10								
5	07BD3036	455					OK	OK	OK	4500	10								

WE HERE CERTIFY THAT THE MATERIAL HEREIN DESCRIBED IS MERCURY FREE AND HAS BEEN MANUFACTURED, SAMPLED, TESTED AND INSPECTED IN ACCORDANCE WITH THE REQUIREMENTS OF ABOVE SPECIFICATIONS AND PURCHASE ORDER, AND MET THE REQUIREMENTS.

The mill test certificate is issued by producer of Liaoyang Large-Scale Steel Pipe Plant.

INSPECTOR:

ISSUER:

29" DMA

LIAOYANG LARGE-SCALE STEEL PIPE PLANT

MILL TEST CERTIFICATE

CERTIFICATE No. 1705

Description: NEWLY PRODUCED PRIME QUALITY STEEL PIPE

ASTM/ASME A/SA 53-B EDITION 2002

PO.No: SF/QT3025

DATE: 2007.07.27

NO.	HEAT NO.	PIECES	SIZE			WEIGHT (kg/m)	TOTAL WEIGHT (MT)	CHEMICAL COMPOSITION (WT%)									BASE METAL MECHANICAL PROPERTIES		
			OD (inc)	WT (inc)	length (ft)			C	Mn	P	S	Cu	Ni	Cr	Mo	V	Y.S. (MPa)	T.S. (MPa)	ELONGATION (%)
1	07AD3117	1	24	0.375	20	140.420	0.856	0.13	0.84	0.012	0.003	0.008	0.015	0.019	0.002	0.001	305	465	31
2	07AD3118	71	24	0.375	20	140.420	60.963	0.19	0.85	0.016	0.005	0.006	0.008	0.028	0.004	0.001	310	480	33
3	07AD3119	97	24	0.375	20	140.420	83.313	0.12	0.84	0.011	0.005	0.009	0.015	0.018	0.002	0.001	285	440	34
4	07AD3120	2	24	0.375	40	143.090	3.490	0.14	0.85	0.011	0.006	0.002	0.007	0.017	0.005	0.001	315	480	32
5	07BD3036	24	24	0.375	40	143.090	41.870	0.14	0.84	0.010	0.005	0.008	0.015	0.019	0.002	0.001	300	450	34
NO.	HEAT NO.	WELD JOINT MECHANICAL PROPERTIES					FLATTENING	VISUAL DIMENSIONS	U.T.	HYDROSTATIC PRESSURE (KPa)	DURATION OF TIME (s)								
1	07AD3117	463					OK	OK	OK	4500	10								
2	07AD3118	460					OK	OK	OK	4500	10								
3	07AD3119	440					OK	OK	OK	4500	10								
4	07AD3120	460					OK	OK	OK	4500	10								
5	07BD3036	455					OK	OK	OK	4500	10								

WE HEREBY CERTIFY THAT THE MATERIAL HEREIN DESCRIBED IS MERCURY FREE AND HAS BEEN MANUFACTURED, SAMPLED, TESTED AND INSPECTED IN ACCORDANCE WITH THE REQUIREMENTS OF ABOVE SPECIFICATIONS AND PURCHASE ORDER AND MET THE REQUIREMENTS.

The mill test certificate is issued by producer of Liaoyang Large-Scale Steel Pipe Plant.

INSPECTOR:

ISSUER:

24" DMW

16" Final Casing/Shallow Monitor Zone



沧州市螺旋钢管有限责任公司

Cangzhou Spiral Steel Pipe Co., Ltd

钢管质量证明书

MILL TEST CERTIFICATE

埋弧焊管生产许可证
编号: TS2710887 2010

客户 Customer: OZONE INDUSTRIES

品名 Product name: Spiral steel pipe

合同编号 Contract No.: OZ081808008

钢级 Steel Grade: Gr.B PSLE

证书编号 Certificate No.: 05-07081286

到站 Destination:

Pipes No.	炉号 Heat Numbers	规格 (Size)			数量 Quantity			化学成分 Chemical Composition (%)					焊接接头物理性能 physical properties of welding joints				管体物理性能 physical properties of pipes				无损检测 NDT		水压试验 Hydrostatic (10s) Mpa	尺寸及外观 size & appearance	
		直径 O.D. In	厚度 W.T. In	长度 length ft	支数 Pieces (Pcs)	总长度 length (ft)	总重量 Weight (MT)	C	Mn	Si	P	S	o b Mpa	正弯 face-bend	反弯 back-bend	o b Mpa	o b Mpa	冷弯 cold-bend	UT	RT					
		180°	180°	6 (34)	180°																				
1	81-09198	16	0.375	39	51	1989	58.600	0.07	0.90	0.20	0.026	0.012	440	pass	pass	295	440	34	pass	pass	pass	pass	6.9	pass	
2	81-07529	24	0.375	39	34	1326	66.950	0.08	0.97	0.10	0.019	0.018	455	pass	pass	325	455	26	pass	pass	pass	pass	4.6	pass	
3	81-08195	24	0.375	39	6	234	10.050	0.08	0.97	0.20	0.021	0.016	446	pass	pass	315	445	34	pass	pass	pass	pass	4.6	pass	
4	82-07242	24	0.375	39	4	150	0.700	0.06	1.17	0.20	0.018	0.019	470	pass	pass	325	470	35	pass	pass	pass	pass	4.6	pass	
5	82-07364	24	0.375	39	8	332	13.400	0.08	1.20	0.30	0.019	0.020	430	pass	pass	340	430	33	pass	pass	pass	pass	4.6	pass	
6	83-04871	24	0.375	39	3	117	5.025	0.09	1.03	0.21	0.020	0.018	450	pass	pass	310	450	27	pass	pass	pass	pass	4.6	pass	
7	81-04871	24	0.375	39	2	78	3.350	0.09	0.90	0.20	0.020	0.018	440	pass	pass	300	440	23	pass	pass	pass	pass	4.6	pass	
8	81-08198	34	0.375	39	1	39	2.384	0.07	0.88	0.20	0.025	0.012	440	pass	pass	295	440	34	pass	pass	pass	pass	3.2	pass	
9	81-07529	24	0.375	39	19	741	45.290	0.08	0.96	0.21	0.020	0.020	485	pass	pass	350	485	30	pass	pass	pass	pass	3.2	pass	
Total					128	4892	198.663																		

注: 证明本表所列产品, 均依材料规格制造及试验, 并符合规格之要求。

The Spiral steel pipes are tested according to API 5L Gr.B and ASTM A139 Gr.B. This is to certify that in accordance with the relevant specifications and contracts. The Spiral steel pipes manufactured were tested and qualified by our Quality Control Department.

检验员: 刘桂化
INSPECTOR:
许可编号: 质量部
LICENSE: ST-0640

日期 Date: SEP-19-2008

16" DAW



INTERPIPE
NMPP

OJSC "INTERPIPE NOVOMOSKOVSK
PIPE PRODUCTION PLANT"
116 SUCHKOV STR.
NOVOMOSKOVSK UKRAINE



INSPECTION CERTIFICATE
EN 10204/3.1

DATE	07.04.08
CERT NO	2154/08
DEL NOTE	

Sheet 1 Sheets 5

CUSTOMER

AG

08/10



LICENSE No
SI - 0304

INTERPIPE NMPP REF number: SALES WORKS

CUSTOMER ORDER No: 08-1100

PRODUCT DESCRIPTION: Electric welded steel pipes acc to ASTM A53-06/API 5L PSL 2 43-th EDITION 2004 Grade B/X42

Freight car: 68311653 | Q-ty of packs: 15 | Gross weight: 75632 | Net weight: 75289

L-CONSTITUTIONAL T-TRANSVERSE B-BODY W WELD KV-CHARPY V-WITCH IN-HARDNESS VICKERS (10 KG LOAD) DT-DROP WEIGHT TEAR TEST

ITEM N	N OF PIECES	PRODUCT DIMENSIONS	HEAT N	LOT N	TENSILE TEST				IMPACT TEST				STEEL MAKING PROCESS BASIC OXYGEN STEEL		
					width: 1.5; 1.5in	length: 7.874in	thickness: 0.358; 0.362in	type of test piece: W-P, B-B	dimensions of specimen	width: 0.295in	thickness: 0.394in	Test temperature, °F		permissible viscosity, Ft-lb	
					yield strength Re Psi	Tensile strength Rm Psi	Elongation A5	hydro pressure Psi	Flu- ce and ori- enta- tion	Spec- al- men- type	Impact 1	Impact 2	Impact 3	Average	OTHER TESTS
B09	B10	B11-13	B08	C00	C01, C02, C10	C11	C12	C13	C02	C40, C30	332°	332°	332°	332°	
1	30	1610x0.375in 40.0-42.0ft 1204.6ft	3063964	32509	W T B T	59.000; 45.000	78.000; 78.000	36.0; 36.0	1670 10secs	W KV	35; 39	33; 35	32; 38	33; 27	FLATTENING TEST SATISFACTOR YIELD LINE 100% AS-TESTED UT SISE 16x 0.375in N10 RESIDUAL MAGNETISM 10.0-20.0 GAUSS THE MINIMUM TEMPERATURE FOR HEAT TREATMENT OF THE WELD SEAM 1634°F Hardness Rockwell < 22 HRC Weld repair isn't permitted

C71-C94 ANALYSIS & LD-LADLE CH-CHECK		C	SI	Mn	P	S	N	Cr	CU	Al	Ni	Mo	Ti	V	NS	Ca	O	Zr	CEV
Heat N	3063964	LD	0.19	0.28	0.53	0.008	0.004	0.007	0.02	0.07	0.04	0.004	-	0.007	-	-	-	-	normal 0.43
	3063964	CH	0.21	0.31	0.59	0.010	0.006	-	<0.05	0.045	0.042	0.034	<0.01	<0.01	<0.01	<0.01	-	-	<0.33

THESE RESULTS ARE CERTIFIED BY INTERPIPE NMPP AND COMPLY WITH THE REQUIREMENTS OF THE PRODUCT DESCRIPTION.

TECHNICAL
STAMPING
DEPARTMENT
OF CERTIFICATION

SIGNATURE

S. Reber

Білік Сергій 2Ж №

19999

26/202

16" DMCW

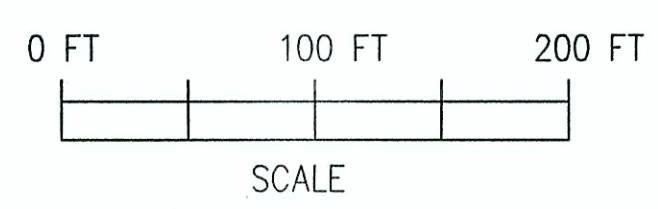
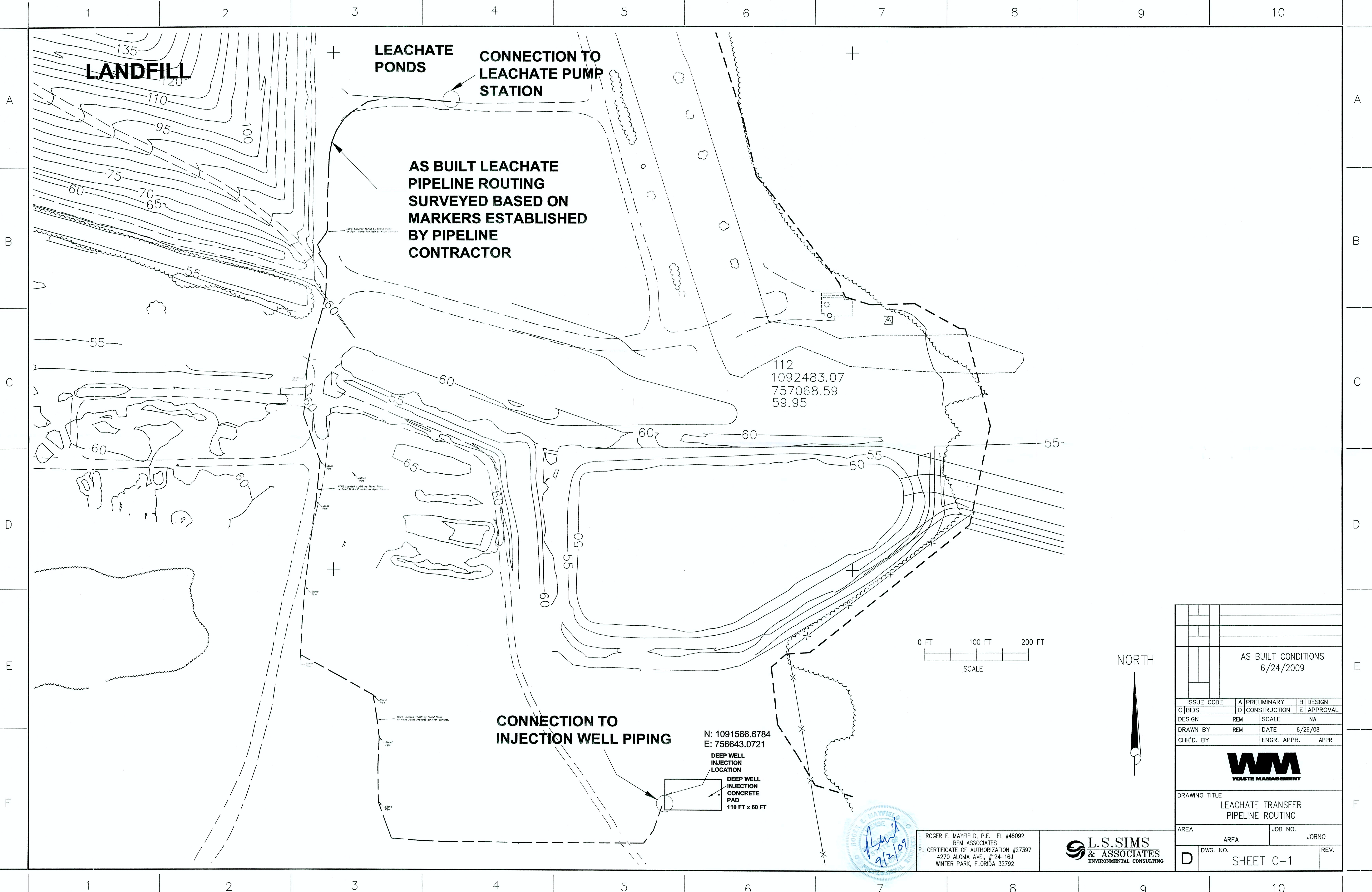


UIC Number: 0040842-022-UC

RFI Number 3: Okeechobee Landfill Injection Well (IW-1)

EXHIBIT 3

- C-1 LEACHATE TRANSFER PIPELINE ROUTING
- S-2 IW SLAB - STRUCTURAL PLAN
- S-3 IW SLAB ELEVATION SCHEMATIC
- I-1 PROCESS & INSTRUMENTATION DIAGRAM



AS BUILT CONDITIONS
6/24/2009

ISSUE CODE	A PRELIMINARY	B DESIGN
C BIDS	D CONSTRUCTION	E APPROVAL
DESIGN	REM SCALE	NA
DRAWN BY	REM DATE	6/26/08
CHK'D. BY	ENGR. APPR.	APPR

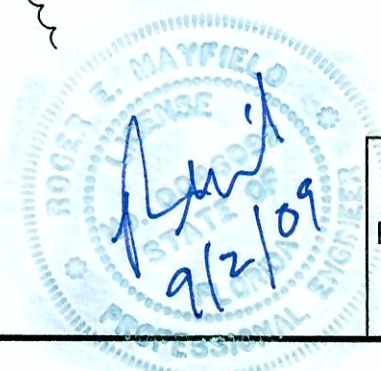


DRAWING TITLE
LEACHATE TRANSFER
PIPELINE ROUTING

AREA	AREA	JOB NO.	JOBNO
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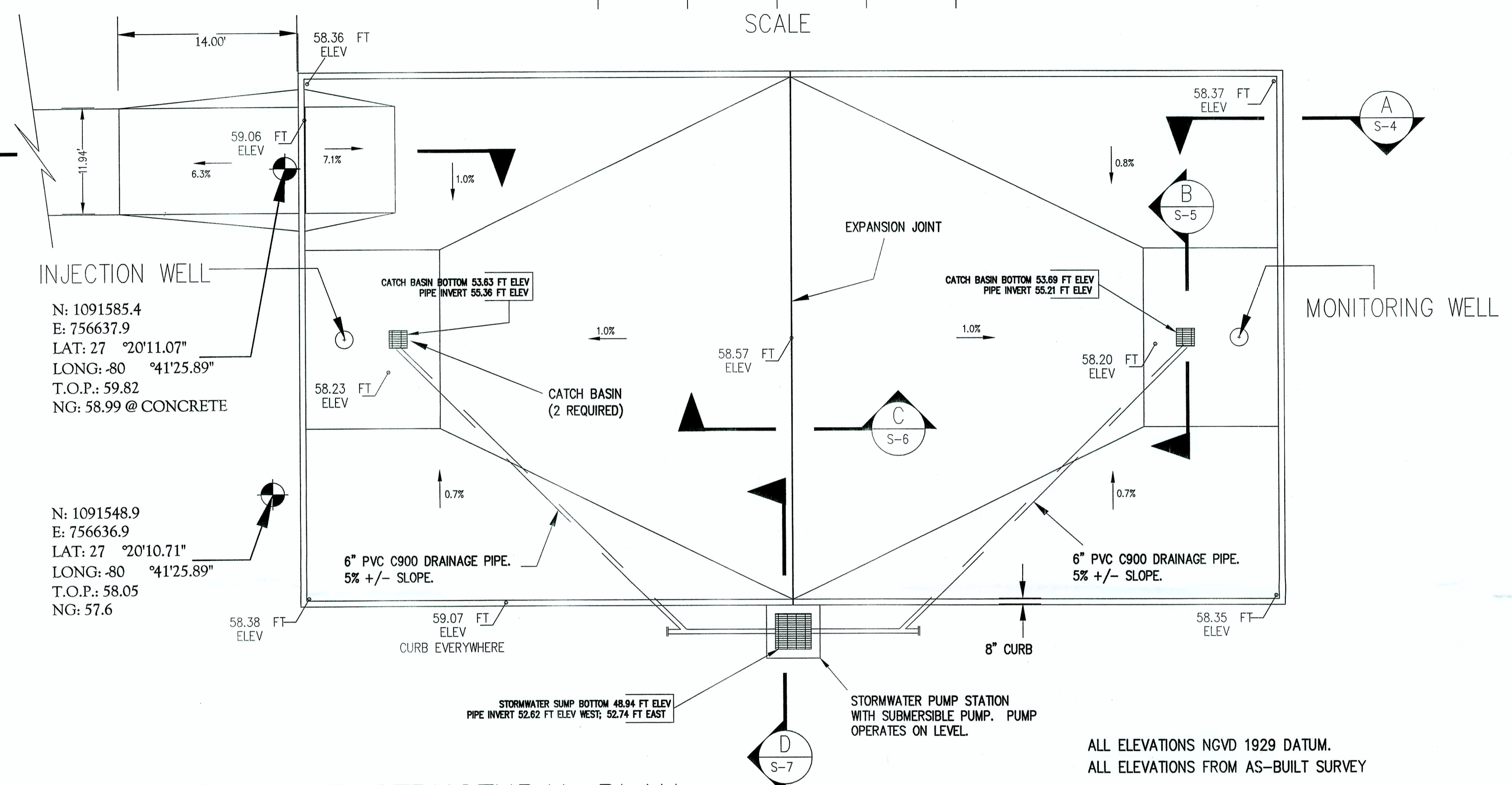
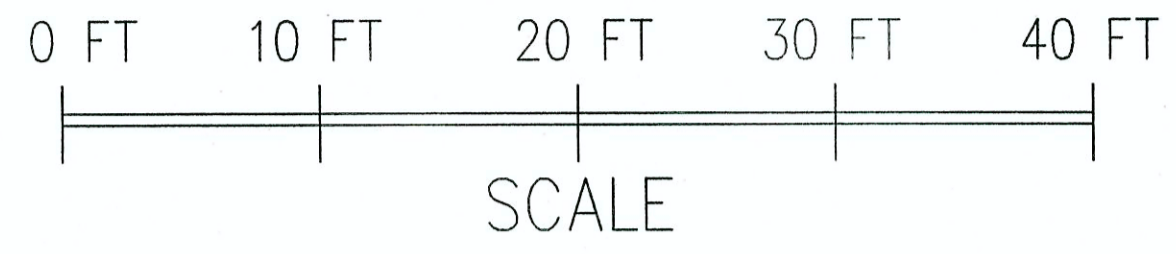
D	DWG. NO.	SHEET C-1	REV.
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ROGER E. MAYFIELD, P.E. FL #46092
REM ASSOCIATES
FL CERTIFICATE OF AUTHORIZATION #27397
4270 ALOHA AVE., #124-16J
WINTER PARK, FLORIDA 32792



N: 1091566.6784
E: 756643.0721

DEEP WELL
INJECTION
LOCATION
DEEP WELL
INJECTION
CONCRETE
PAD
110 FT x 60 FT



INJECTION WELL
 N: 1091585.4
 E: 756637.9
 LAT: 27 °20'11.07"
 LONG: -80 °41'25.89"
 T.O.P.: 59.82
 NG: 58.99 @ CONCRETE

N: 1091548.9
 E: 756636.9
 LAT: 27 °20'10.71"
 LONG: -80 °41'25.89"
 T.O.P.: 58.05
 NG: 57.6

N: 1091586.0
 E: 756787.1
 LAT: 27 °20'11.07"
 LONG: -80 °41'24.22"
 T.O.P.: 58.75
 NG: 57.0

N: 1091545.5
 E: 756786.6
 LAT: 27 °20'10.67"
 LONG: -80 °41'24.23"
 T.O.P.: 58.87
 NG: 56.8

ALL ELEVATIONS NGVD 1929 DATUM.
 ALL ELEVATIONS FROM AS-BUILT SURVEY



AS-BUILT LEGEND:
 I.N.J. W. = INJECTION WELL
 M.W. = MONITOR WELL
 Ⓢ = TEMPORARY MONITOR WELL
 N: = NORTHING
 E: = EASTING
 LAT: = LATITUDE
 LONG: = LONGITUDE
 T.O.P.: = TOP OF PIPE
 NG: = NATURAL GROUND

NOTE: ALL ELEVATIONS SHOWN ARE IN NATIONAL GEODETIC VERTICAL DATUM (NGVD) 1929.

WELL SLAB STRUCTURAL PLAN

SCALE: AS NOTED

SURVEYOR'S NOTES

- THIS IS A RECORD/AS-BUILT SURVEY AS DEFINED IN CHAPTER 61G17-6.005, FLORIDA ADMINISTRATIVE CODE, THE PURPOSE OF THIS SURVEY IS TO SHOW EXISTING ELEVATIONS AT THE INJECTION WELL PAD AT SPECIFIED LOCATIONS.
- VERTICAL VALUES ARE BASED ON NATIONAL GEODETIC SURVEY POINT "C-357", A DISK AND A FIRST ORDER CLASS II VERTICAL POINT, HAVING A PUBLISHED ELEVATION OF 57.15' NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND AN ELEVATION OF 58.43' CONVERTED TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29) USING A CONVERSION VALUE OF 1.28'.
- HORIZONTAL VALUES SHOWN HEREON ARE REFERENCED TO THE STATE PLANE COORDINATE SYSTEM, FLORIDA EAST ZONE, NAD 1983, (2007 ADJUSTMENT).
- UNLESS IT BEARS THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER EMPLOYED BY WANTMAN GROUP, INC., THIS REPORT, SKETCH, PLAN OR MAP IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT VALID. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
- WANTMAN GROUP, INCORPORATED, CERTIFICATE OF AUTHORIZATION NO. 7055, IS ISSUED BY THE FLORIDA DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION.
- THIS SURVEY DOES NOT REFLECT NOR DETERMINE OWNERSHIP.

CERTIFICATION

I HEREBY CERTIFY THE ATTACHED SKETCH OF SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND THAT IT MEETS THE MINIMUM TECHNICAL STANDARDS SET FORTH BY THE FLORIDA BOARD OF LAND SURVEYORS IN CHAPTER 61G17-6, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO CHAPTER 472.027 FLORIDA STATUTES.

DATE OF LAST FIELD WORK: 03-05-09
 FOR THE FIRM:
 WANTMAN GROUP, INC.

DATE: _____
 DEREK G. ZEMAN, P.S.M.
 PROFESSIONAL SURVEYOR AND MAPPER
 STATE OF FLORIDA LICENSE NO. 5655

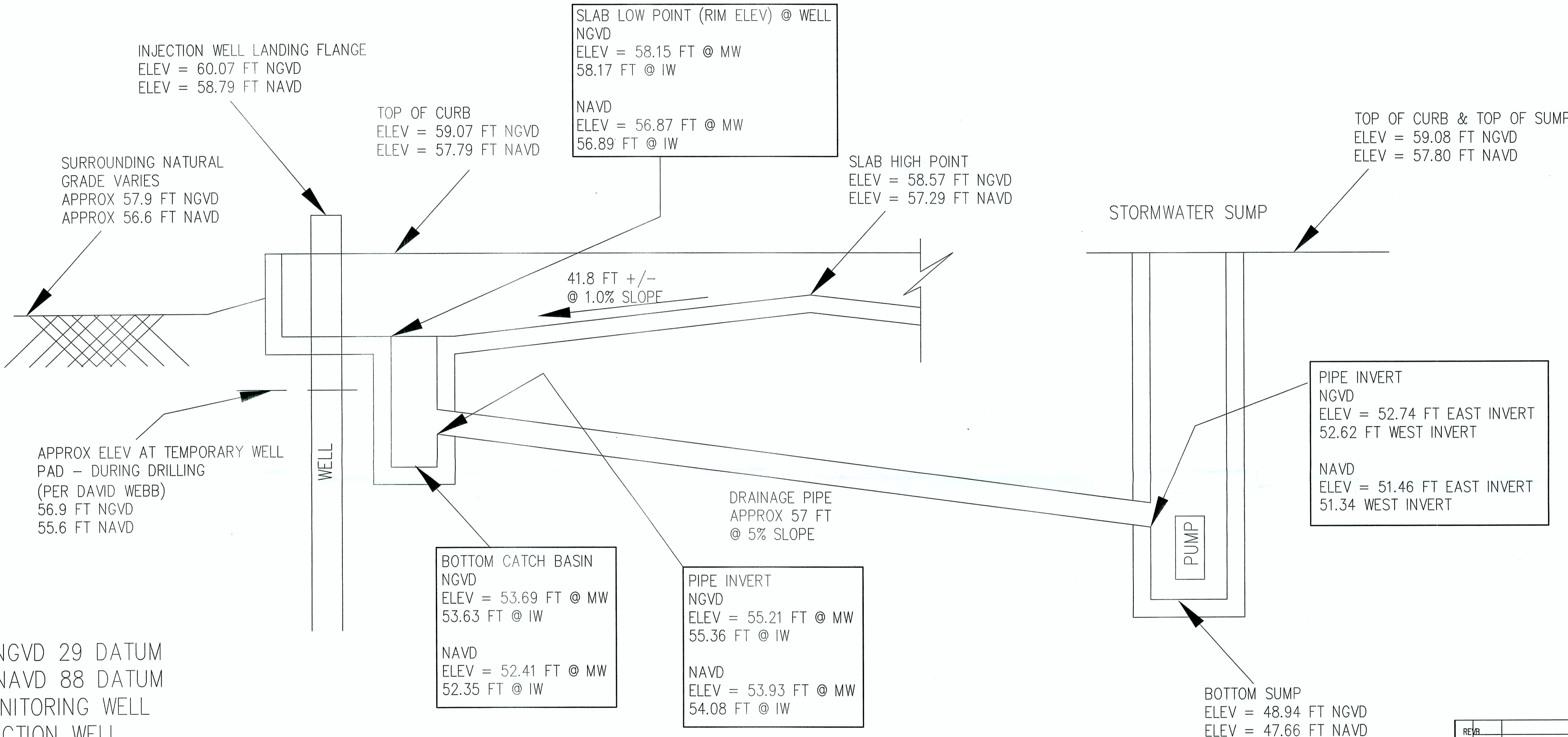
Wantman Group, Inc.
 Engineering ♦ Planning ♦ Surveying ♦ Environmental
 2035 VISTA PARKWAY, SUITE 100 WEST PALM BEACH, FL 33411 (888) 909-2220 phone (561) 687-1110 fax
 CERT. No. 8091 - LB. No. 7055
 JACKSONVILLE - ORLANDO - PORT ST. LUDE - TAMPA
 www.wantmangroup.com

DRAWING PATH:
 DRAWING NAME: S-2 S-3.DWG
 DRAWN BY: GS JOB NUMBER: 306602.00
 CHECKED BY: DGZ FIELD DATE: 02-23-09
 SHEET Model Of 2

ROGER E. MAYFIELD, P.E. FL #46092
 REM ASSOCIATES, INC.
 CERTIFICATE OF AUTHORIZATION # 27397
 4270 ALOMA AVE., #124-54K
 WINTER PARK, FLORIDA 32792

L.S. SIMS & ASSOCIATES
 ENVIRONMENTAL CONSULTING

REV#			
REVA			
REV. NO.	AS BUILT CONDITIONS 6/24/2009		
BY			
DESIGN	REM	SCALE	
DRAWN BY		DATE	11/8/08
CHK'D. BY	REM	ENGR. APPR.	REM
WM WASTE MANAGEMENT			
DRAWING TITLE		JOB NO.	
LECHATE INJECTION WELL PROJECT IW SLAB - STRUCTURAL PLAN			
AREA			
D	DWG. NO.	S-2	REV.



NOTES:
 NGVD = NGVD 29 DATUM
 NAVD = NAVD 88 DATUM
 MW = MONITORING WELL
 IW = INJECTION WELL
 ALL ELEVATIONS SHOWN ARE FROM AS-BUILT SURVEY

WELL SLAB ELEVATION SCHEMATIC

NOT TO SCALE

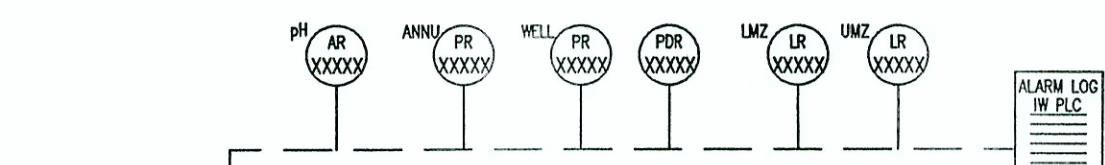
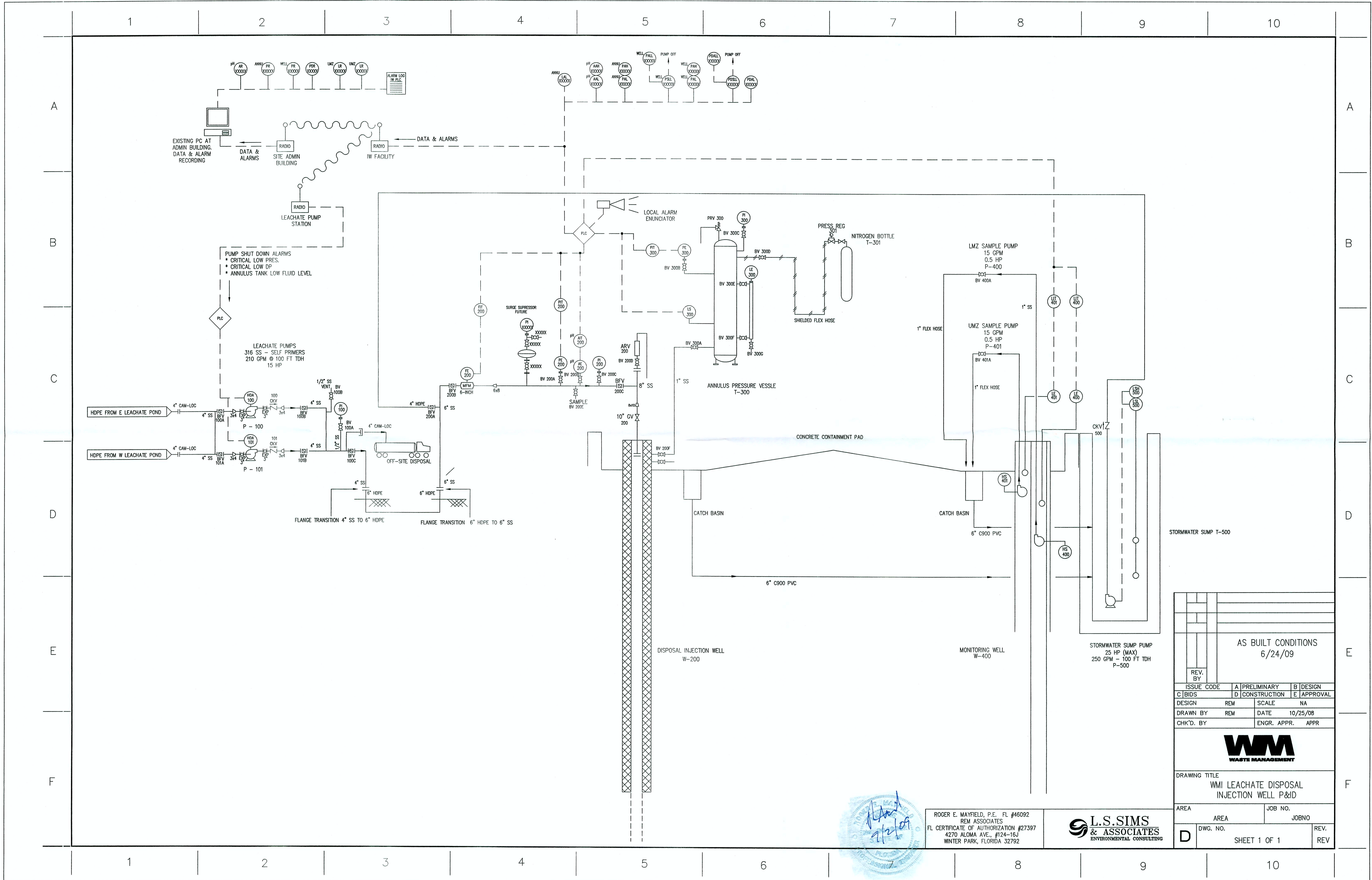
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 www.wantmangroup.com

DRAWING PATH:
 DRAWING NAME: S-2 S-3.DWG
 DRAWN BY: GS JOB NUMBER: 306602.00
 CHECKED BY: DGZ FIELD DATE: 02-23-09
 SHEET Model OF 2

ROGER E. MAYFIELD, P.E. FL #46092
 REM ASSOCIATES, INC.
 CERTIFICATE OF AUTHORIZATION # 27397
 4270 ALOMA AVE., #124-54K
 WINTER PARK, FLORIDA 32792

L.S. SIMS & ASSOCIATES
 ENVIRONMENTAL CONSULTING

REV. NO.	BY	AS BUILT CONDITIONS 6/24/2009
DESIGN	REM	SCALE
DRAWN BY		DATE 11/8/08
CHK'D. BY	REM	ENGR. APPR. REM
WM WASTE MANAGEMENT		
DRAWING TITLE OKEECHOBEE LANDFILL, INC. LECHATE INJECTION WELL PROJECT IW SLAB ELEVATION SCHEMATIC		
AREA	JOB NO.	
D	DWG. NO. S-3	REV.



- PUMP SHUT DOWN ALARMS
- CRITICAL LOW PRES.
 - CRITICAL LOW DIP
 - ANNULUS TANK LOW FLUID LEVEL

LEACHATE PUMPS
316 SS - SELF PRIMERS
210 GPM @ 100 FT TDH
15 HP

FLANGE TRANSITION 4" SS TO 6" HDPE
FLANGE TRANSITION 6" HDPE TO 6" SS

AS BUILT CONDITIONS 6/24/09		
REV. BY		
ISSUE CODE	A PRELIMINARY	B DESIGN
C BIDS	D CONSTRUCTION	E APPROVAL
DESIGN	REM	SCALE NA
DRAWN BY	REM	DATE 10/25/08
CHK'D. BY	ENGR. APPR.	APPR
WM WASTE MANAGEMENT		
DRAWING TITLE WMI LEACHATE DISPOSAL INJECTION WELL P&ID		
AREA	AREA	JOB NO.
D	DWG. NO.	REV.
	SHEET 1 OF 1	REV



ROGER E. MAYFIELD, P.E. FL #46092
REM ASSOCIATES
FL CERTIFICATE OF AUTHORIZATION #27397
4270 ALOMA AVE., #124-16J
WINTER PARK, FLORIDA 32792

