



Robert Bentley
GOVERNOR

ALABAMA DEPARTMENT OF TRANSPORTATION

SOUTHWEST REGION
OFFICE OF REGION ENGINEER
1701 I-65 WEST SERVICE ROAD N
MOBILE, ALABAMA 36618-1109
TELEPHONE: (251) 470-8200
FAX (251) 473-3624



John R. Cooper
TRANSPORTATION DIRECTOR

MEMORANDUM

December 5, 2022

TO: Proposer PPC

FROM: Edwin L. Perry, III P.E.
ALDOT Authorized Representative

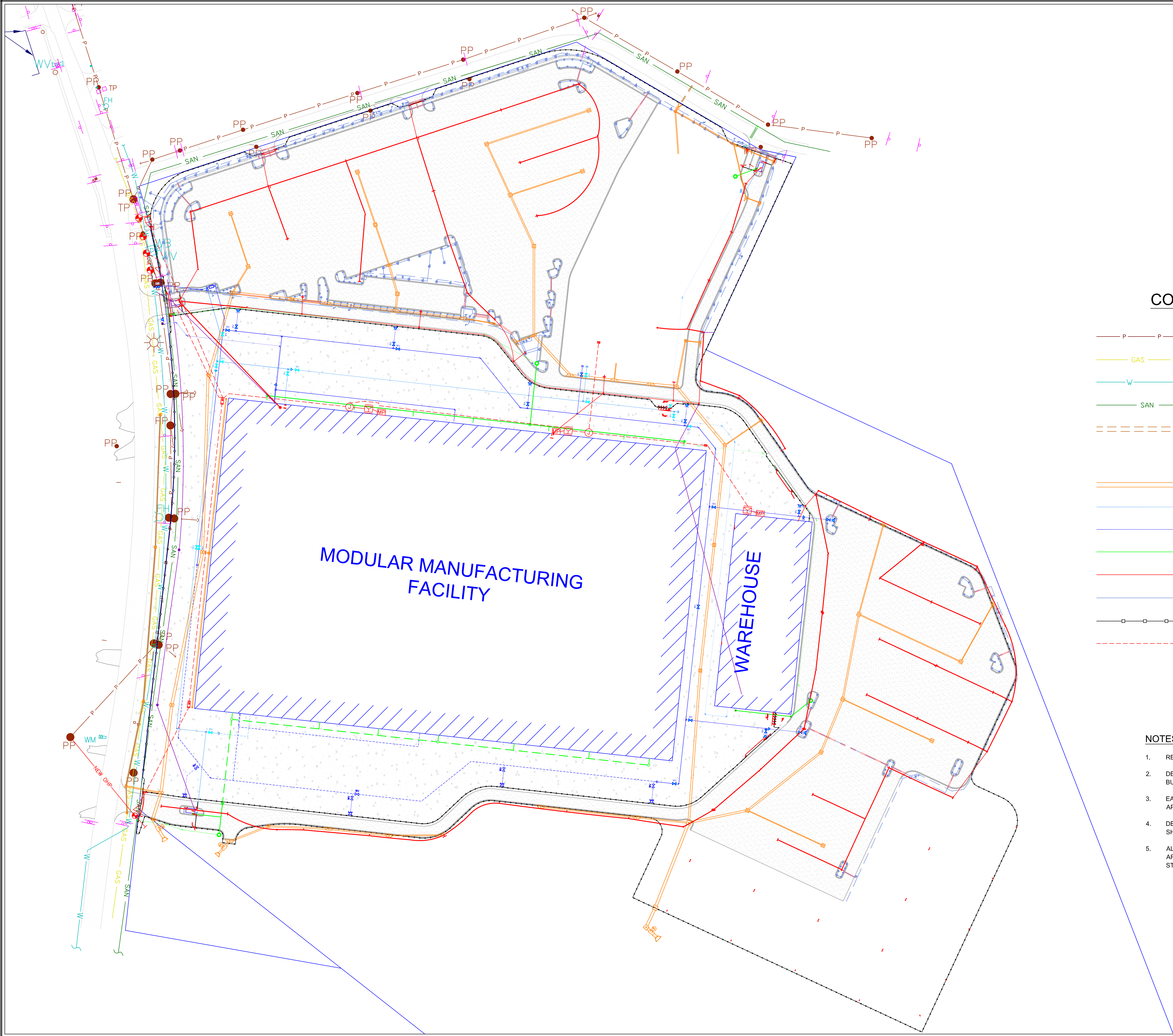
RE: I-10 Mobile River Bridge and Bayway Project Reference Plans

Two reference documents are being provided pertaining to Austal.

- Austal Transport Vehicle Specs
- Austal MMF Site Utility

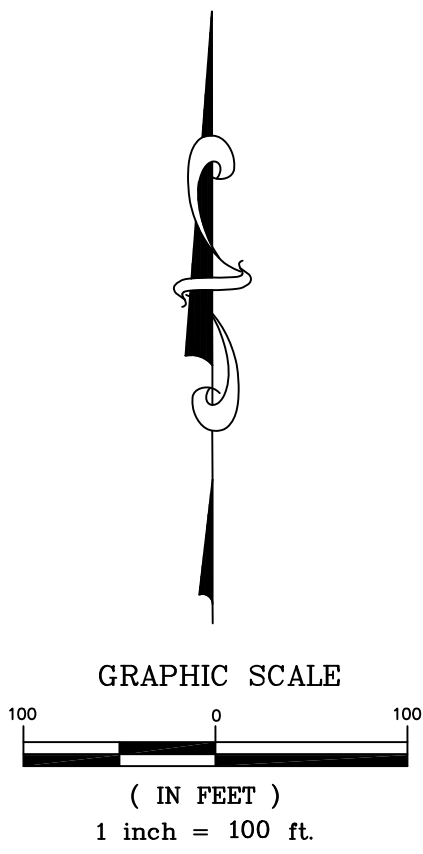
These documents were obtained in 2018 and may not be the most up to date information. SPMT vehicle specifications are being provided to give a better understanding of Austal's operations and the clearances required along Dunlap Road for construction signage, utility relocations, etc.

P:\Austral\dwg\CONDUIT PLAN.dwg, CONDUIT PLAN, 10/15/2008 9:25:51 AM, Jason W. Woolen



800-292-8525
#DIG (Cellular)
Dig Safely.

Alabama 1 Call



CONDUIT LEGEND

- EXISTING ELECTRICITY
- EXISTING NATURAL GAS
- EXISTING WATER
- EXISTING SANITARY SEWER
- EXISTING STORM DRAIN
- EXISTING FIBER OPTIC MARKER
- PROPOSED STORM SEWER
- PROPOSED DOMESTIC WATER
- PROPOSED FIRE WATER
- PROPOSED SANITARY SEWER
- PROPOSED ELECTRICITY
- PROPOSED IRRIGATION
- PROPOSED FENCING
- PROPOSED ALABAMA POWER SERVICE
- PROPOSED POWER POLE LOCATION

NOTES:

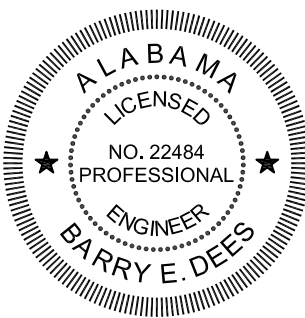
- REFER TO APPROPRIATE PLANS FOR CONDUIT & STRUCTURE SIZES AND DETAILS.
- DEES ENGINEERING HAS NOT REFERENCED THESE PLANS TO ANY APPLICABLE BUILDING CODES FOR DEPTH OF BURY, CLEAR SPACING REQUIREMENTS, ETC.
- EACH DESIGNER IS RESPONSIBLE FOR PROVIDING LAYOUTS THAT MEET ALL APPLICABLE BUILDING CODES.
- DEES ENGINEERING IS TO BE CONTACTED AND PROVIDED WITH ACAD DRAWINGS SHOULD ANY INDIVIDUAL CONDUIT PLAN BE REVISED.
- ALL CONDUIT LOCATIONS DEPICTED ARE APPROXIMATE. MINOR ALTERATIONS TO ARE ANTICIPATED TO AVOID CONFLICTS WITH OTHER UTILITIES, FIXTURES, AND STRUCTURES.

Modular Manufacturing Facility
MOBILE, ALABAMA
AUSTAL

DEES ENGINEERING
Office: (251) 981-4936
Fax: (251) 981-4937
www.deesengineering.com
3817 Gulf Shores Parkway
Gulf Shores, AL 36542

DATA
SCALE: AS NOTED
FILE NAME: CONDUIT PLAN.dwg
DOCUMENT RELEASE:
(25) 10/15/2008

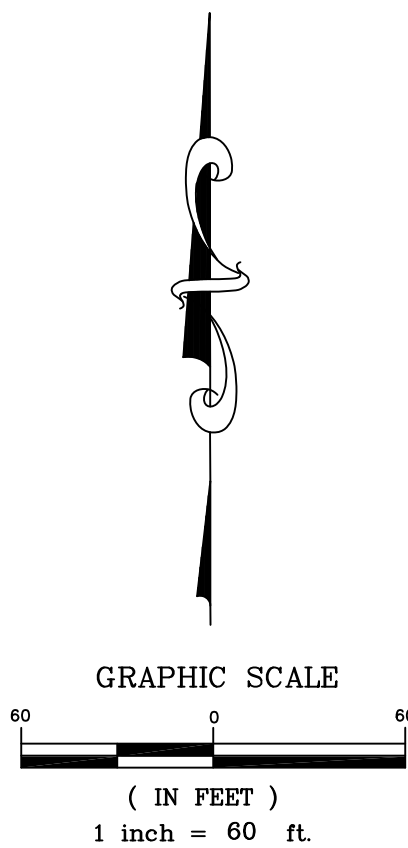
CONDUIT
LAYOUT
SCHEMATIC



GRAY PROJECT # 208029
DATE: 10/15/08

EXHIBIT
A

APPROVED FOR
CONSTRUCTION



Modular Manufacturing Facility
AUSTAL

MOBILE, ALABAMA

DEES ENGINEERING
Office: (251) 981-9336
Facsimile: (251) 981-9338
www.deesengineering.com
3817 Gulf Shores Parkway
Suite 9
Gulf Shores, AL 36542

DATA
SCALE: AS NOTED
FILE NAME: C-22-238 UTILITY PLAN.dwg
DOCUMENT RELEASE:
(38) 04/24/2009

FIRE
PROTECTION
PLAN

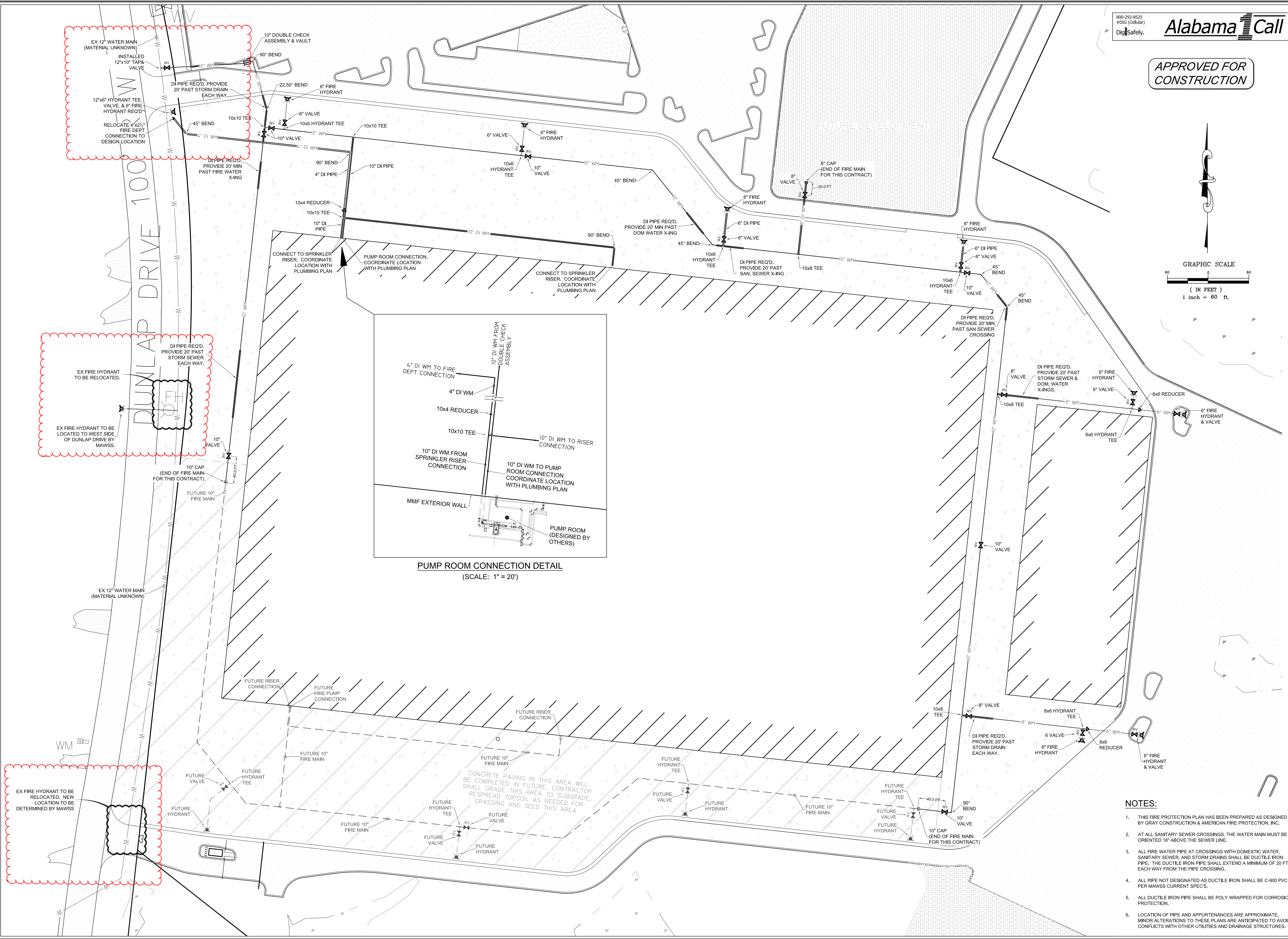


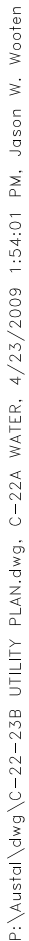
GRAY PROJECT # 208029
DATE: 04/23/2009

C-22

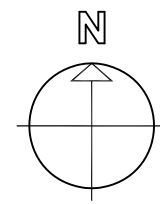
NOTES:

- THIS FIRE PROTECTION PLAN HAS BEEN PREPARED AS DESIGNED BY GRAY CONSTRUCTION & AMERICAN FIRE PROTECTION, INC.
- AT ALL SANITARY SEWER CROSSINGS, THE WATER MAIN MUST BE ORIENTED 18" ABOVE THE SEWER LINE.
- ALL FIRE WATER PIPE AT CROSSINGS WITH DOMESTIC WATER, SANITARY SEWER, AND STORM DRAINS SHALL BE DUCTILE IRON PIPE. THE DUCTILE IRON PIPE SHALL EXTEND A MINIMUM OF 20 FT EACH WAY FROM THE PIPE CROSSING.
- ALL PIPE NOT DESIGNATED AS DUCTILE IRON SHALL BE C-900 PVC PER MAWSS CURRENT SPECS.
- ALL DUCTILE IRON PIPE SHALL BE POLY WRAPPED FOR CORROSION PROTECTION.
- LOCATION OF PIPE AND APPURTENANCES ARE APPROXIMATE. MINOR ALTERATIONS TO THESE PLANS ARE ANTICIPATED TO AVOID CONFLICTS WITH OTHER UTILITIES AND DRAINAGE STRUCTURES.

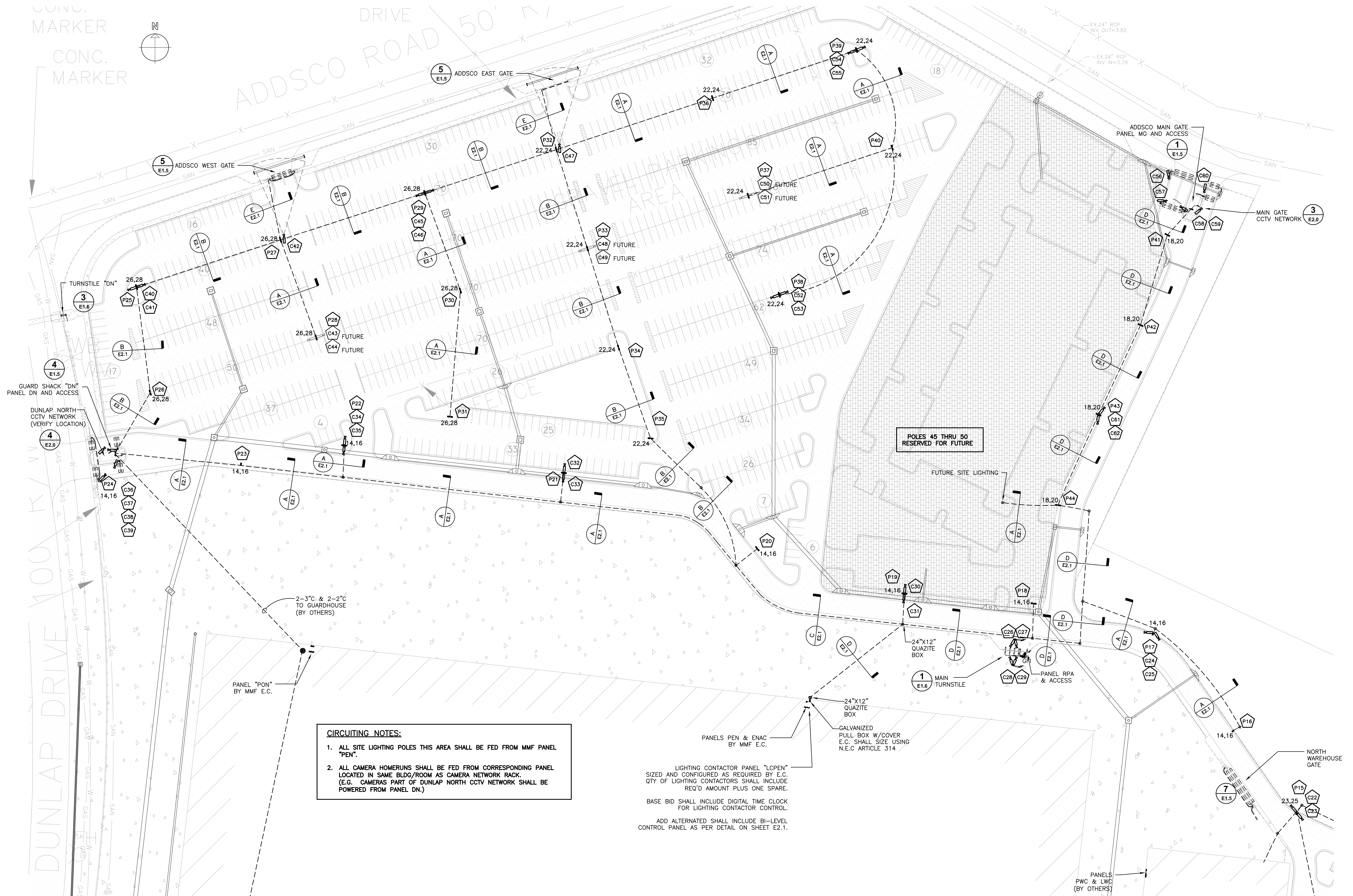




CONC.
MARKER
CONC.
MARKER



DRIVE
50'
ADDSCO ROAD



- CIRCUITING NOTES:**
1. ALL SITE LIGHTING POLES THIS AREA SHALL BE FED FROM MMF PANEL "PEN".
 2. ALL CAMERA HOMERUNS SHALL BE FED FROM CORRESPONDING PANEL LOCATED IN SAME BLDG/ROOM AS CAMERA NETWORK RACK. (E.G. CAMERAS PART OF DUNLAP NORTH CCTV NETWORK SHALL BE POWERED FROM PANEL DN.)

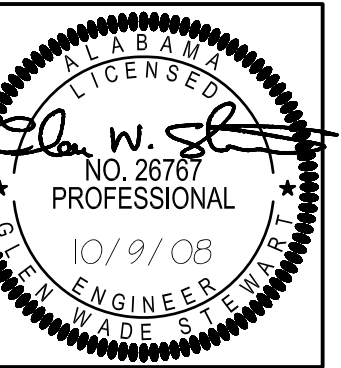
LIGHTING CONTACTOR PANEL "LCPEN"
SIZED AND CONFIGURED AS REQUIRED BY E.C.
QTY OF LIGHTING CONTACTORS SHALL INCLUDE
REQ'D AMOUNT PLUS ONE SPARE.

BASE BID SHALL INCLUDE DIGITAL TIME CLOCK
FOR LIGHTING CONTACTOR CONTROL.

ADD ALTERNATED SHALL INCLUDE BI-LEVEL
CONTROL PANEL AS PER DETAIL ON SHEET E2.1.

MATCHLINE -- E1.3

1 NORTH PARKING AREA
SCALE: 1" = 50'-0"



**STEWART
ENGINEERING**

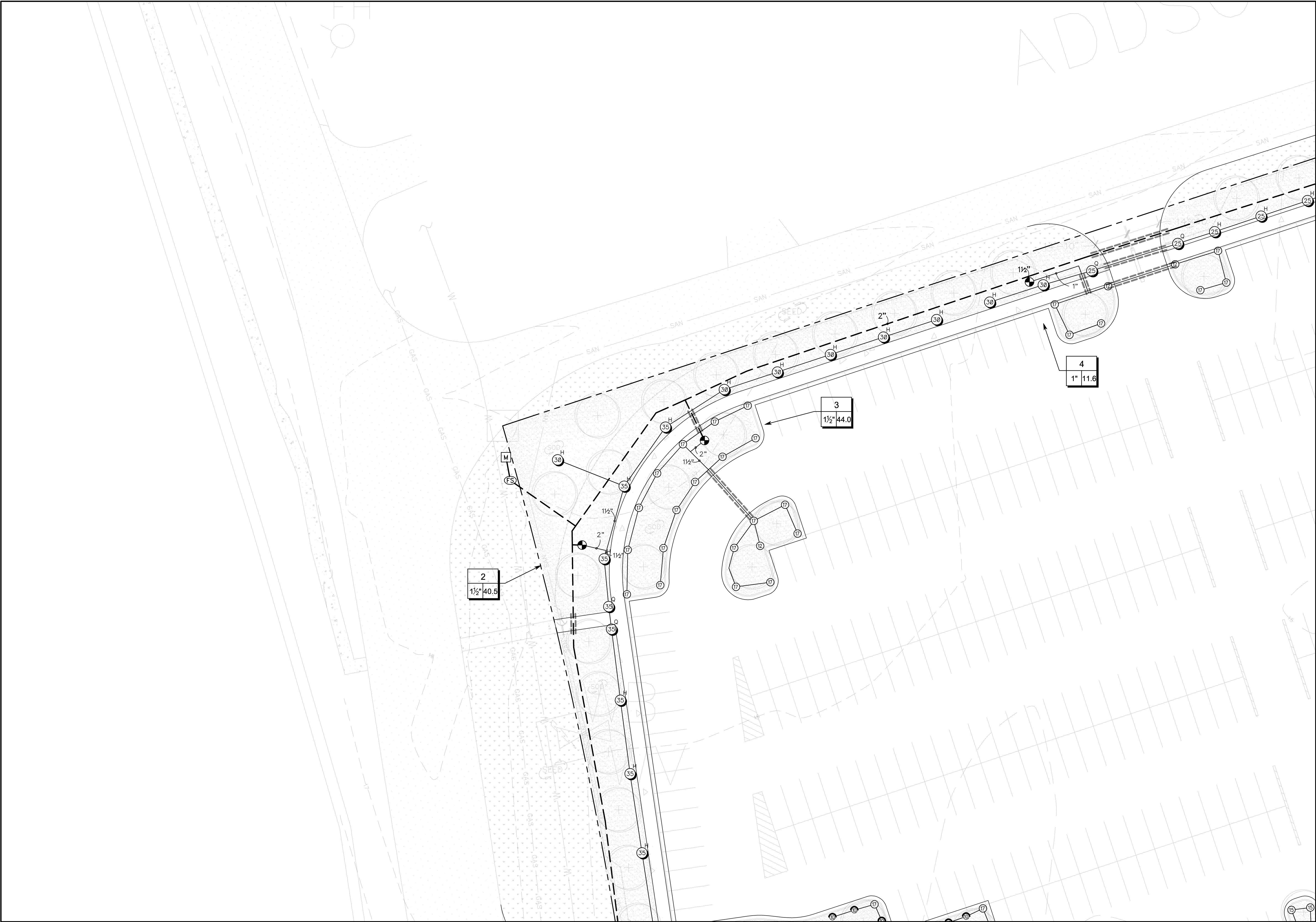
40680 STATE HWY 59
BAY MINETTE, ALABAMA 36507
251 937 6393 251 937 1792 Fax

AUSTAL USA
MMF - Site Security Package
MOBILE, ALABAMA



REVISIONS:		
Doc Release #21	10/10/08	1
Doc Release #24	10/14/08	2

SITE PLAN NORTH PARKING	
Gray Project # 208029	
Drawn By: Wade Stewart	Date: 10/9/08
Sheet Number: E1.2	



A Landscape Development Plan for
Austal MMF Site Security
Mobile, Alabama

GRAY PROJECT #208029

Revisions		
No.	Date	Revisions / Submissions
—	08.29.08	90% CD COORDINATION SET
—	09.19.08	100% CD — Doc. Release 21
—		
—		
—		

LCW
Drawn
LCW
Checked
082006-006
Project No.
07.23.08
Date

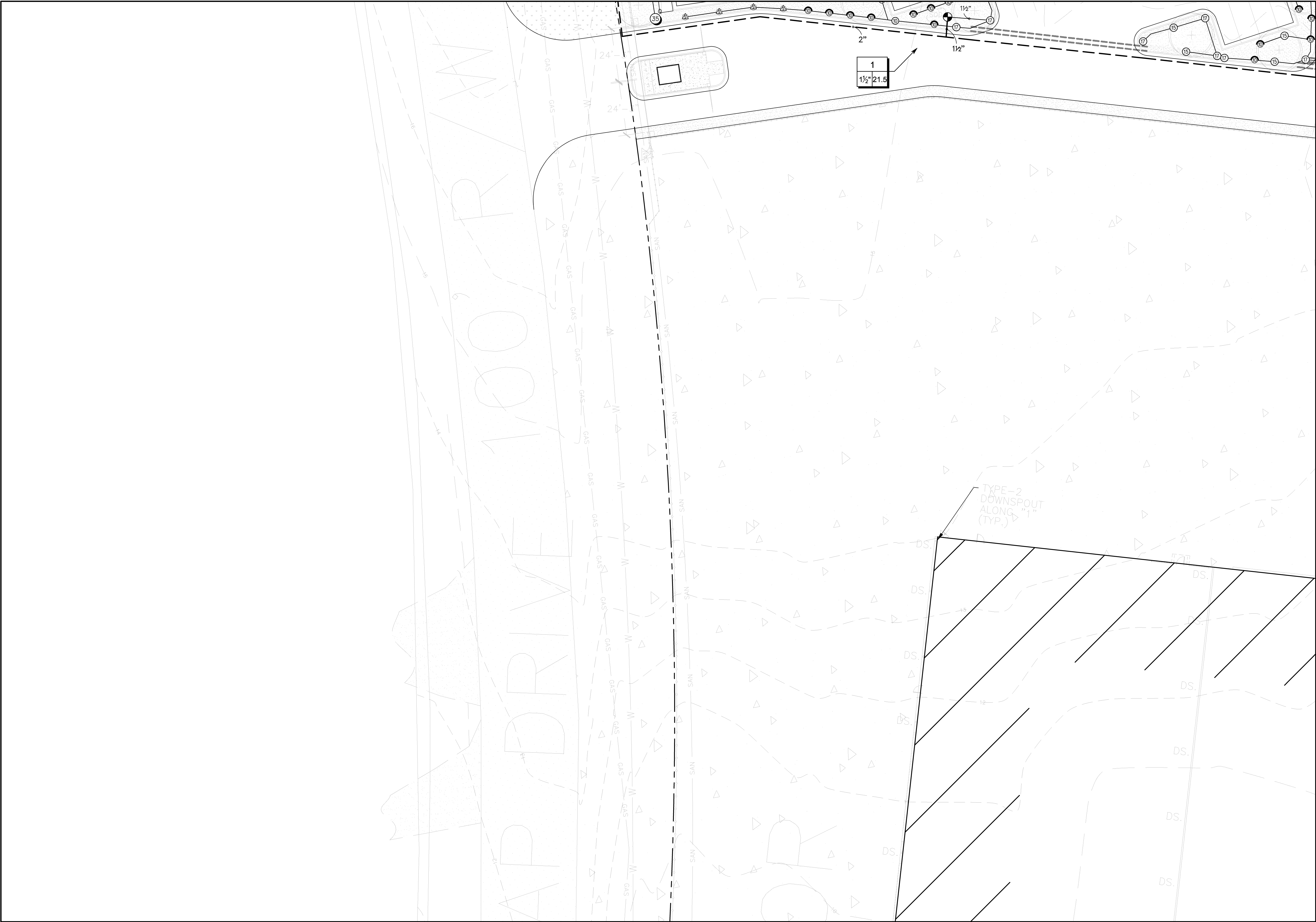
Registration

Sheet Title

IRRIGATION
ENLARGEMENT

Sheet No.

LI202



Wdesign

WATKINS · ACY · STRUNK

landscape architecture · land planning · placemaking

1404 W. 1st St., Suite Two, Gulf Shores, Alabama 36542

Telephone 251.948.7181 Facsimile 251.981.8722

Key Plan

A Landscape Development Plan for

Austal MMF Site Security

Mobile, Alabama

GRAY PROJECT #208029

Revisions

No.	Date	Revisions / Submissions
08.29.08	90% CD COORDINATION SET	
09.19.08	100% CD - Doc. Release 21	

LCW

Drawn

LCW

Checked

082006-006

Project No.

07.23.08

Date

Registration

STATE OF ALABAMA

LESTER CHAD WATKINS

REGISTERED LANDSCAPE ARCHITECT

MEMBER

518

Sheet Title

IRRIGATION ENLARGEMENT

LI205



Kay Ivey
GOVERNOR

ALABAMA
DEPARTMENT OF TRANSPORTATION
SOUTHWEST REGION
OFFICE OF REGION ENGINEER
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TELEPHONE: (251) 470-8200
FAX: (251) 473-3624



John R. Cooper
TRANSPORTATION DIRECTOR

Date: December 20, 2018

To: Proposers

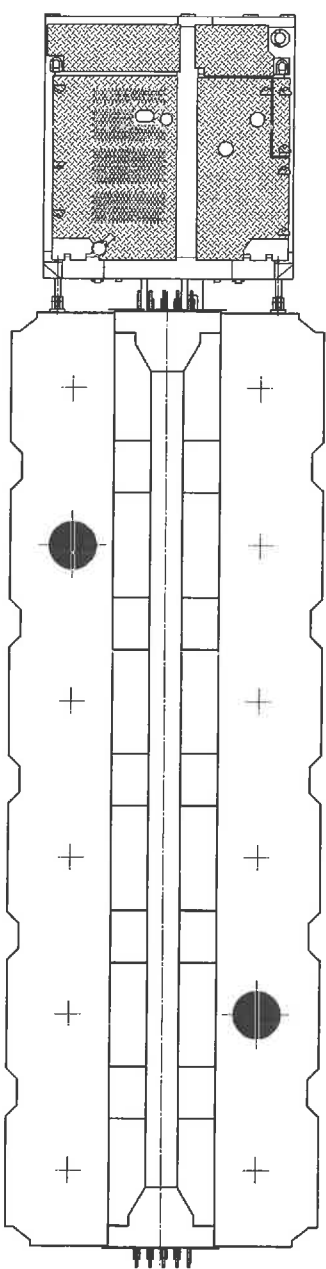
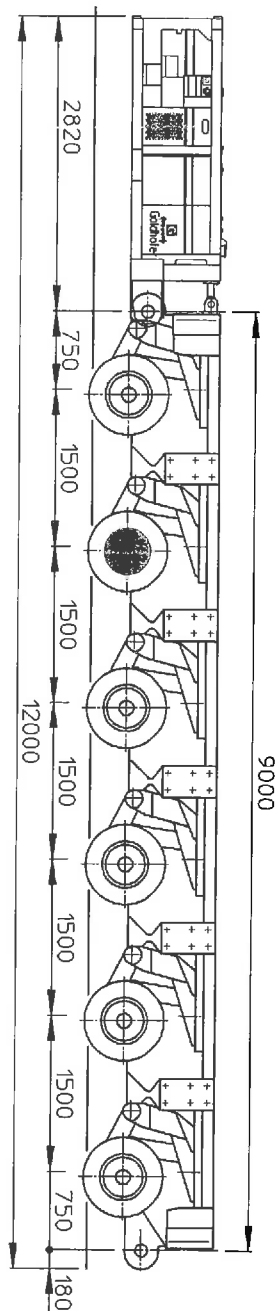
From: ALDOT

Subject: Austal's Self Propelled Modular Transporters (SPMTs) Specifications

Attached and below are technical specifications for the Self Propelled Modular Transporters (SPMTs) Austal USA uses to transport vessel modules between their facilities along Dunlap Drive.

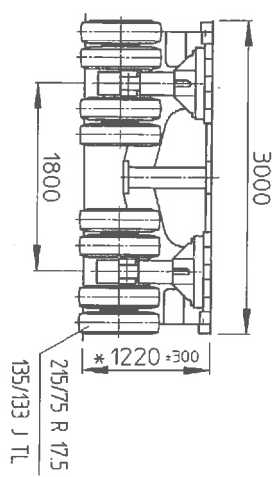
- 4 trailers
 - o Each trailer is 9 M long X 3 M wide
 - o Each trailer has a gross weight of 25 MT
 - o Each trailer has 6 axles with each axle consisting of two 4 tire wheel sets – 8 tires per axle
 - o Each trailer has a hydraulically adjustable carry deck with a minimum height of 900 mm and a maximum height of 1500 mm.
- 4 power packs
 - o Each power pack is 3 M long X 3 M wide
 - o Each power pack has a gross weight of 5 MT

Depending on what is being transported, the SPMTs can be used in a variety of configurations. All the configurations currently used by Austal USA require no more than 2 power packs.



driven axle

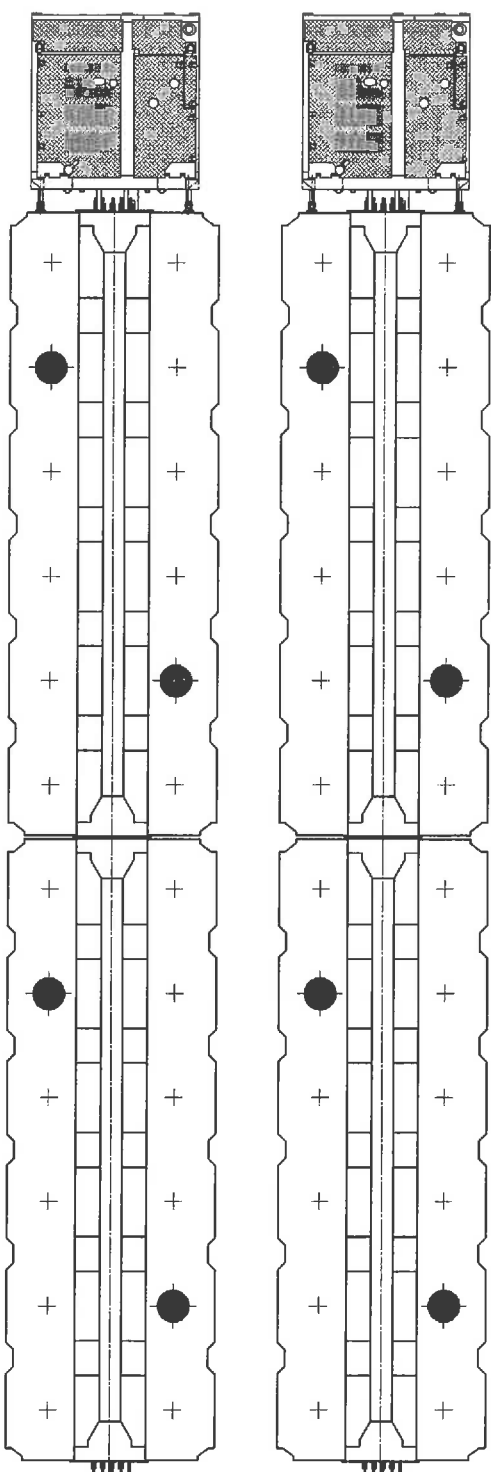
undriven axle



* = beladen / laden

Technische Änderungen vorbehalten! / Subject to technical alterations

 www.goldhofer.de				PST/SL-E 6-12x02			
D	00000	Name	Kueth	Datum	27.11.2008	Zeichnungs-Änderung	150/150
				P7000.02.07.54 - 0 - 1			



undriven axle

* = beladen / laden

Technische Änderungen vorbehalten! / Subject to technical alterations

2x PST/SL-E 12-24x04

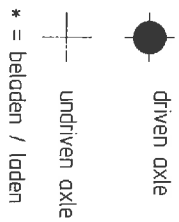
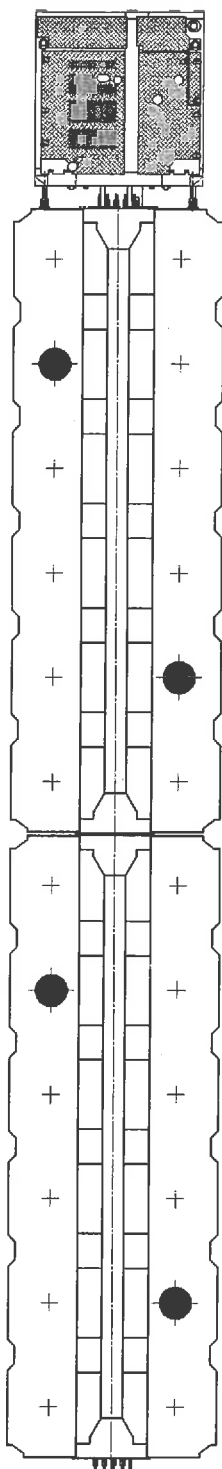
G
Goldhofer
www.goldhofer.de

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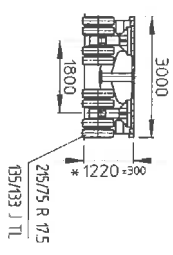
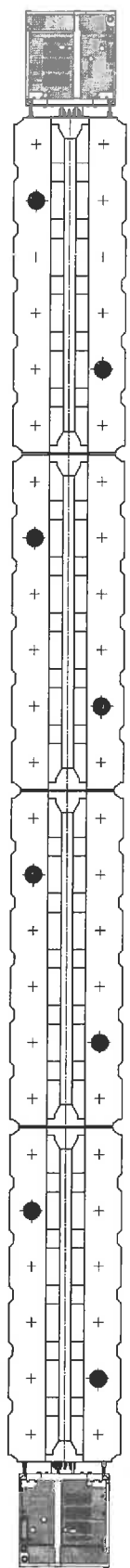
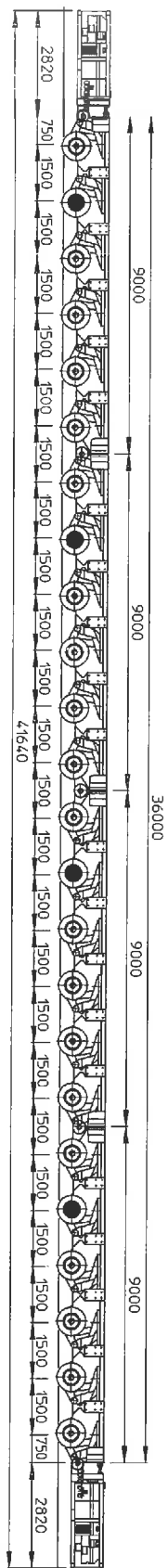
Name	Datum
Kuehn	27.11.2008

Zeichnungs-Nr./drawing #:	Index:	Blank label
P7000.02.07.56-0-1		

Index: | [Bibliography](#)

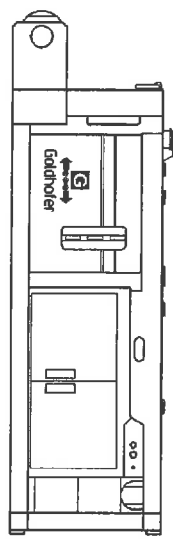
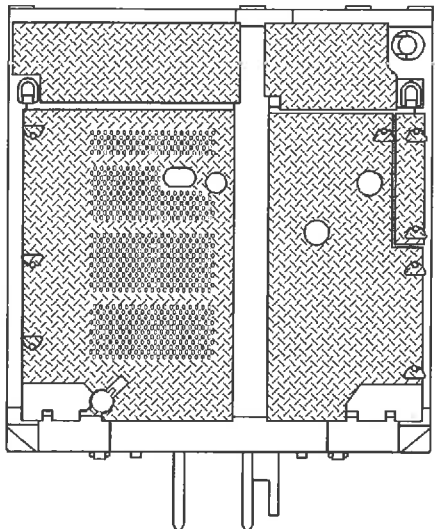
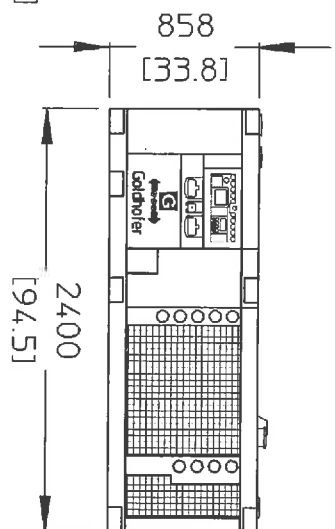
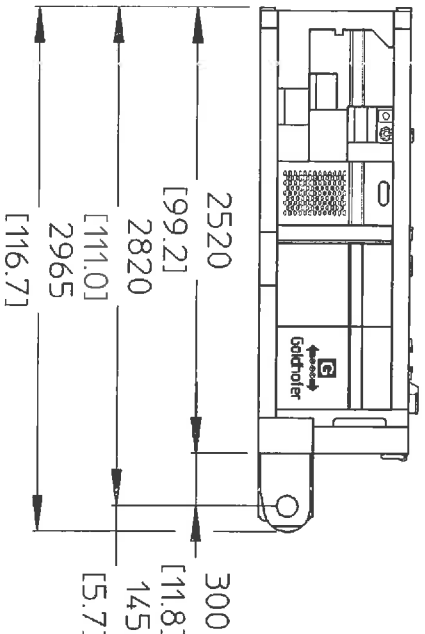


PST/SL-E 12-24x04



driven axle
 undriven axle
 * = beladen / laden
 Technische Änderungen vorbehalten / Subject to technical alterations

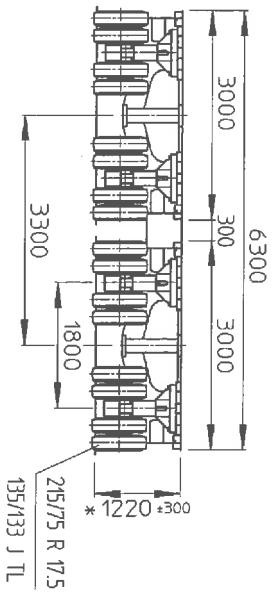
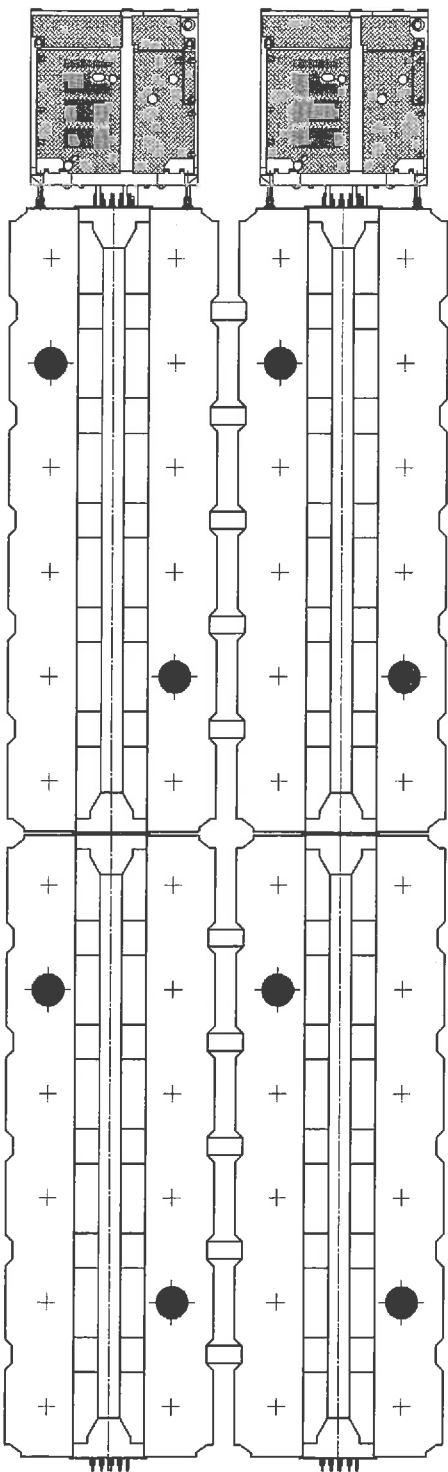
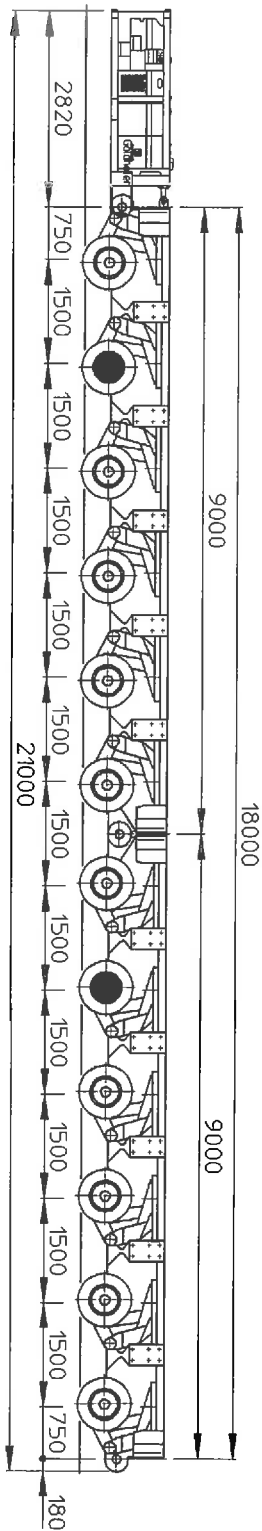
PST/SL 24-48x08	03030
ZF 175	P7000 02 07 58 - 0 - 1



dimensions in [brackets] in inches

Technische Änderungen vorbehalten! / Subject to technical alterations

 Goldhofer www.goldhofer.de				PFV-210 / 30-19			
ID:	41774	Name:	schuster	Datum:	12.12.2007	Zeichnungs-Nr./drawing #:	0.07.01.36 - 0 - 1
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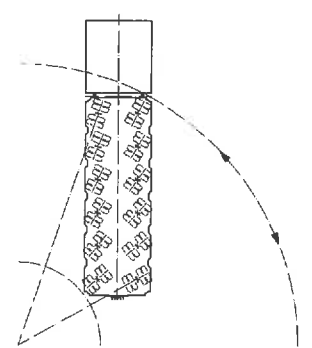
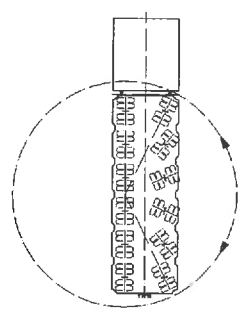
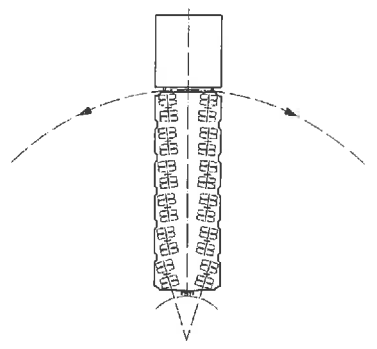
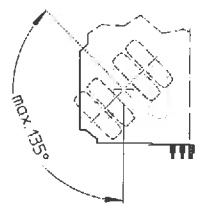
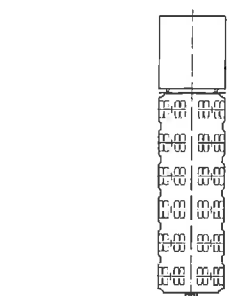
● driven axle

+ undriven axle

* = beladen / laden

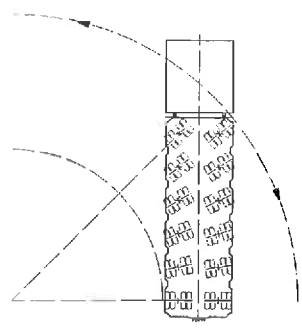
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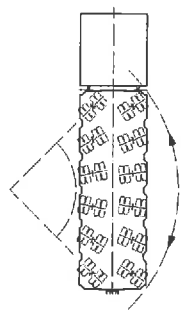


free - steering - pole modes

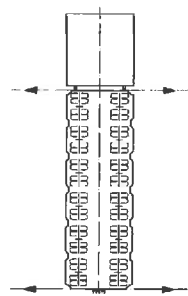
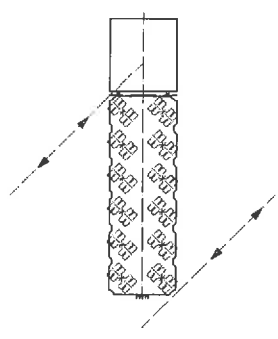
trailer - steering modes



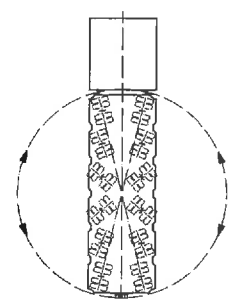
counter - steering modes



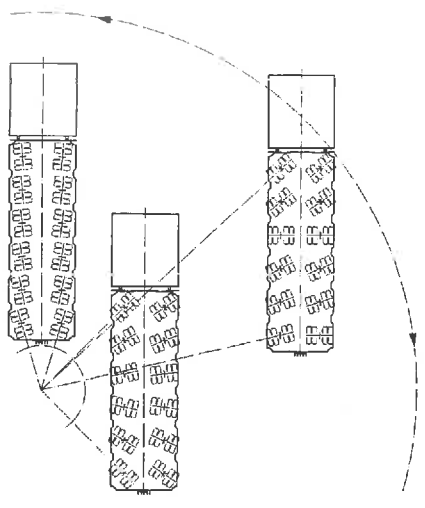
diagonal - steering modes



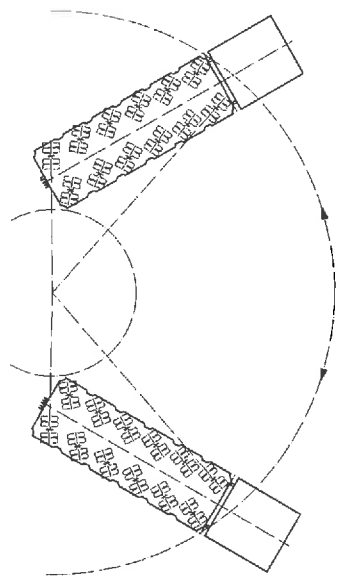
corousel - steering modes



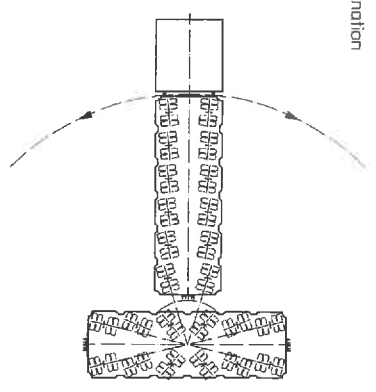
parallel combination



angular combination



T - combination





Technical data

Goldhofer Modular Transporter Type PST/SL-E

General vehicle dimensions:

- Wheel base	approx. 59 inches
- Loading height in lowered position	approx. 36 inches + approx. 24 inch
- Loading height in mid stroke position	approx. 48 inches $\pm$ approx. 12 inch
- Bogie width	approx. 118 inches
- Track	approx. 71 inches

General technical data:

Tyres (8 x per axle line)	215/75 R 17,5 135/133J TL
Axle load per axle line (at 5 km/h):	79.200 lbs *
Dead weight per axle line (with drive):	approx.: 9.900 lbs
Dead weight per axle line (without drive):	approx.: 8.360 lbs

* Increase up to 88.000 kg possible after analysis of load and transport conditions

General drive data:

Tractive force per driven axle (2 wheel sets):	140 KN (30.800 lbs)
max.Speed (unladen):	9,3 mph

General steering data

Vehicle equipped with multi-way steering system, type EMS with +/- 135° steering angle

General data power pack PFV-210/30-19:

- Diesel engine:	Deutz - 6-Cylinder
------------------	--------------------



- Engine output:	approx.: 155 KW / 210 HP
- Engine typ:	Deutz BF 6 M TCD 2013 L6 2V
- Dimension (LxWxH)	approx. 106 x 118 mm x 33 inches
- Weight:	approx.: 10.340 lbs

GOLDHOFER Self Driven Modular Transporter Type PST/SL

Technical Data for PST/SL-E 24 with Powerpack 155 kW				
No. of single-width axle lines - self-driven unit(s)		24	axle lines	
<i>Thereof driven axle lines (max.)</i>		4	axle lines	
No. of single-width axle lines - trailer(s)			axle lines	
No. of single-width axle lines - total		24	axle lines	
No. of Powerpack(s) PFV 120/12-7		2	powerpack(s)	
Engine output total		310	kW	
Deadweight without Powerpack(s)	approx.	95,6	metric tonnes	
Deadweight Powerpack(s)	approx.	9,6	metric tonnes	
Deadweight total	approx.	105,2	metric tonnes	
Payload	approx.	134,8	metric tonnes	
Gross weight	approx.	240,0	metric tonnes	
Axle load per single-width axle line	approx.	10,0	metric tonnes	
No. of wheelsets		48	wheelsets	
Thereof no. of driven wheelsets		8	wheelsets	
<u>Units in single width arrangement</u>		24	axle lines	
Total length without Powerpack(s)	approx.	36.000	mm	
Total length with Powerpack(s)	approx.	41.600	mm	
Total width	approx.	3.000	mm	
<u>Units in parallel arrangement P(1+1)</u>		12	axle lines	
Total length without Powerpack(s)	approx.	18.000	mm	
Total length with Powerpack(s)	approx.	20.800	mm	
Total width	approx.	6.300	mm	
Loading deck height, laden, without EMS	approx.		mm	
Loadin deck height, laden, with EMS	approx.	1.220 +/- 300	mm	
Wheelbase	approx.	1.500	mm	
Tyres		215/75 R 17,5 135/133 J TL		
Tire capacity max. 34 to at 5 km/h - 36 to at 1 km/h - 40 to at 0,5 km/h				
<u>Driving performance data:</u>				
No. of driven axle lines		2 (min.)	4 (max.)	axle lines
Driven axle lines in freewheeling		2		axle lines
Max. tractive force	approx.	280	560	kN
Max. hill-climbing ability with a.m. payload	approx.	9,2%	20,8%	
Max. driving speed:				
Deadweight, 0% gradient	approx.	14,2	7,1	kph
With a.m. payload, 0% gradient	approx.	8,1	7,1	kph
With a.m. payload, max. gradient	approx.	1,7	0,9	kph