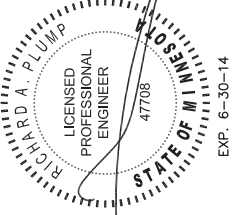
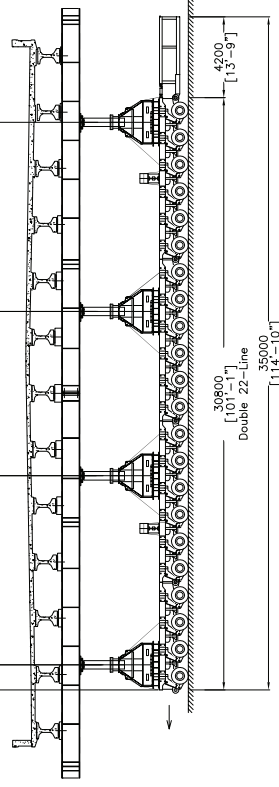
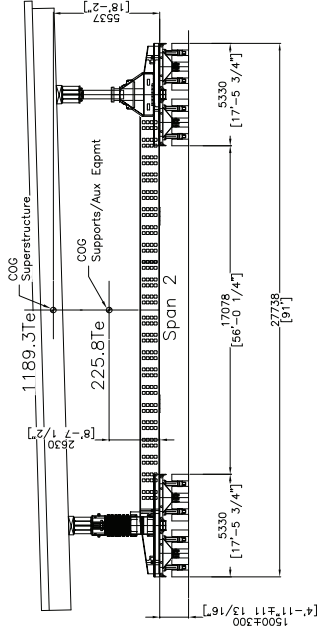
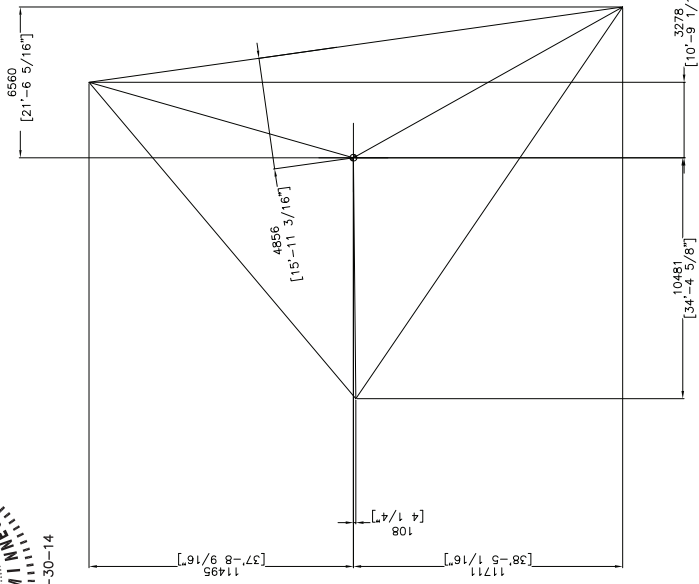
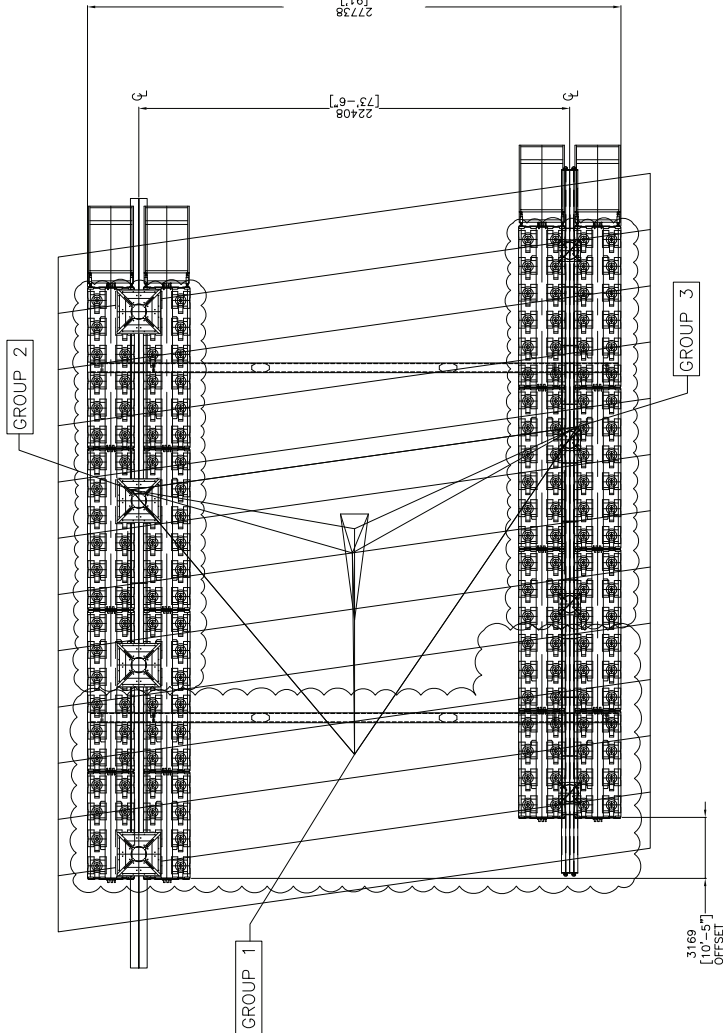


Weight of each span/superstructure: 1189.3Te [2622Kips]



SPMT		Group1	Group2	Group3	Total
Amount/Axle/Lines	28	30	30	88	nos.
Mass Item	450.6	488.8	475.6	1415.1	ton
Mass Trailer	90.1	144.4	144.4	378.8	ton
TOTAL	540.7	633.2	620.0	1793.9	ton
Load per Axle	9.7	10.6	10.3	10.2	ton
Load per Wheel	4.8	5.3	5.2	5.1	ton
Ground bearing pressure	5.7	6.2	6.1	6.0	ton/m ²
Weight Breakdown Items		Weight (t)	X (in)	Y (in)	Z (in)
Supports		225.8	0.000	0.000	2.630
Superstructure		1189.3	0.000	0.000	5.537
Total		1415.1	0.000	0.000	5.073



REV.	DATE	DESCRIPTION	CHECKED	DRAWN
04	07AUG12	In Progress		
03	17APR12	In Progress		
02	28MAR12	In Progress		
01	270312	Revision Number of SPMT Lines		
00	080712	For Bid		

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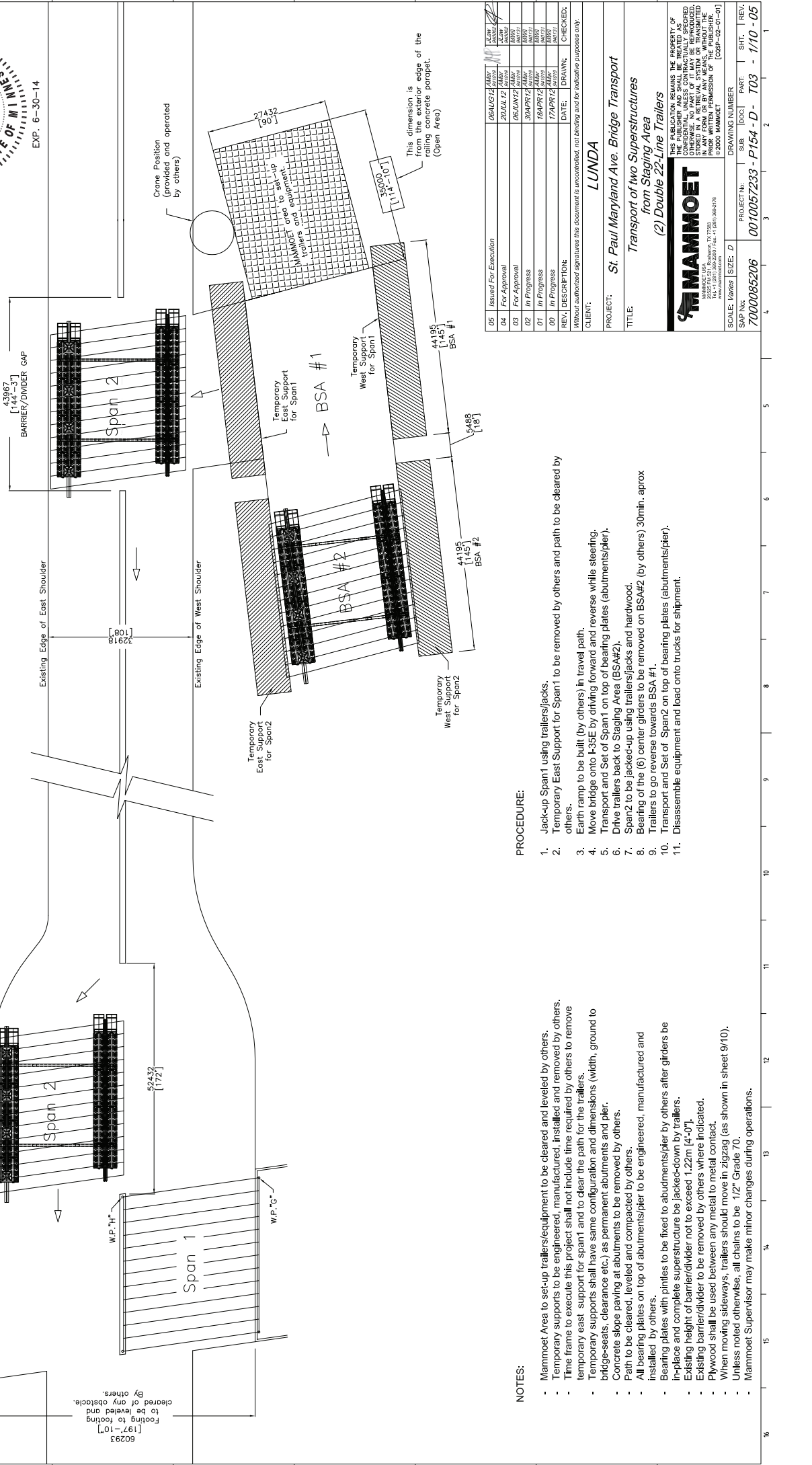
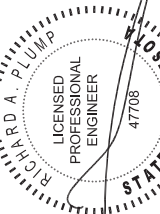
CLIENT: **LUNDA**
St. Paul Maryland Ave. Bridge Install
(2) DOUBLE 22-LINE TRAILERS

SCALE: Lines SIZE: D
 PROJECT No: 0010057233-P154-D-101
 SHEET: 1/1 - 04

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Weight of each span/supersstructure: 1189Te [2622Kips]



- NOTES:**
- Mammoet Area to set-up trailers/equipment to be cleared and leveled by others.
 - Temporary supports to be engineered, manufactured, installed and removed by others.
 - Time frame to execute this project shall not include time required by others to remove temporary east support for span1 and to clear the path for the trailers.
 - Temporary supports shall have same configuration and dimensions (width, ground to bridge-seats, clearance etc.) as permanent abutments and piers.
 - Concrete slope paving at abutments to be removed by others.
 - Path to be cleared, leveled and compacted by others.
 - All bearing plates on top of abutments/piers to be engineered, manufactured and installed by others.
 - Bearing plates with pinholes to be fixed to abutments/piers by others after girders be in-place and complete supersstructure be jacked-down by trailers.
 - Existing height of barrier/divider not to exceed 1.22m (4'-0").
 - Existing barrier/divider to be removed by others where indicated.
 - Plywood shall be used between any metal to metal contact.
 - When moving sideways, trailers should move in zigzag (as shown in sheet 9/10).
 - Unless noted otherwise, all challs to be 1/2" Grade 70.
 - Mammoet Supervisor may make minor changes during operations.

- PROCEDURE:**
1. Jack-up Span1 using trailers/jacks.
 2. Temporary East Support for Span1 to be removed by others and path to be cleared by others.
 3. Earth ramp to be built (by others) in travel path.
 4. Move bridge onto I-35E by driving forward and reverse while steering.
 5. Transport and Set of Span1 on top of bearing plates (abutments/piers).
 6. Drive trailers back to Staging Area (BSAN#2).
 7. Span2 to be jacked-up using trailers/jacks and hardwood.
 8. Bearing of the (6) center girders to be removed on BSA#2 (by others) 30min. approx
 9. Trailers to go reverse towards BSA #1.
 10. Transport and Set of Span2 on top of bearing plates (abutments/piers).
 11. Disassemble equipment and load onto trucks for shipment.

REV.	DESCRIPTION:	DATE:	CHECKED:	DRAWN:
05	Issued For Execution	06AUG12	MM	MM
04	For Approval	20JUL12	MM	MM
03	For Approval	06JUN12	MM	MM
02	In Progress	30APR12	MM	MM
01	In Progress	26APR12	MM	MM
00	In Progress	17APR12	MM	MM

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CLIENT: **LUNDA**

PROJECT: **St. Paul Maryland Ave. Bridge Transport**

TITLE: **Transport of two Superstructures from Staging Area (2) Double 22-Line Trailers**

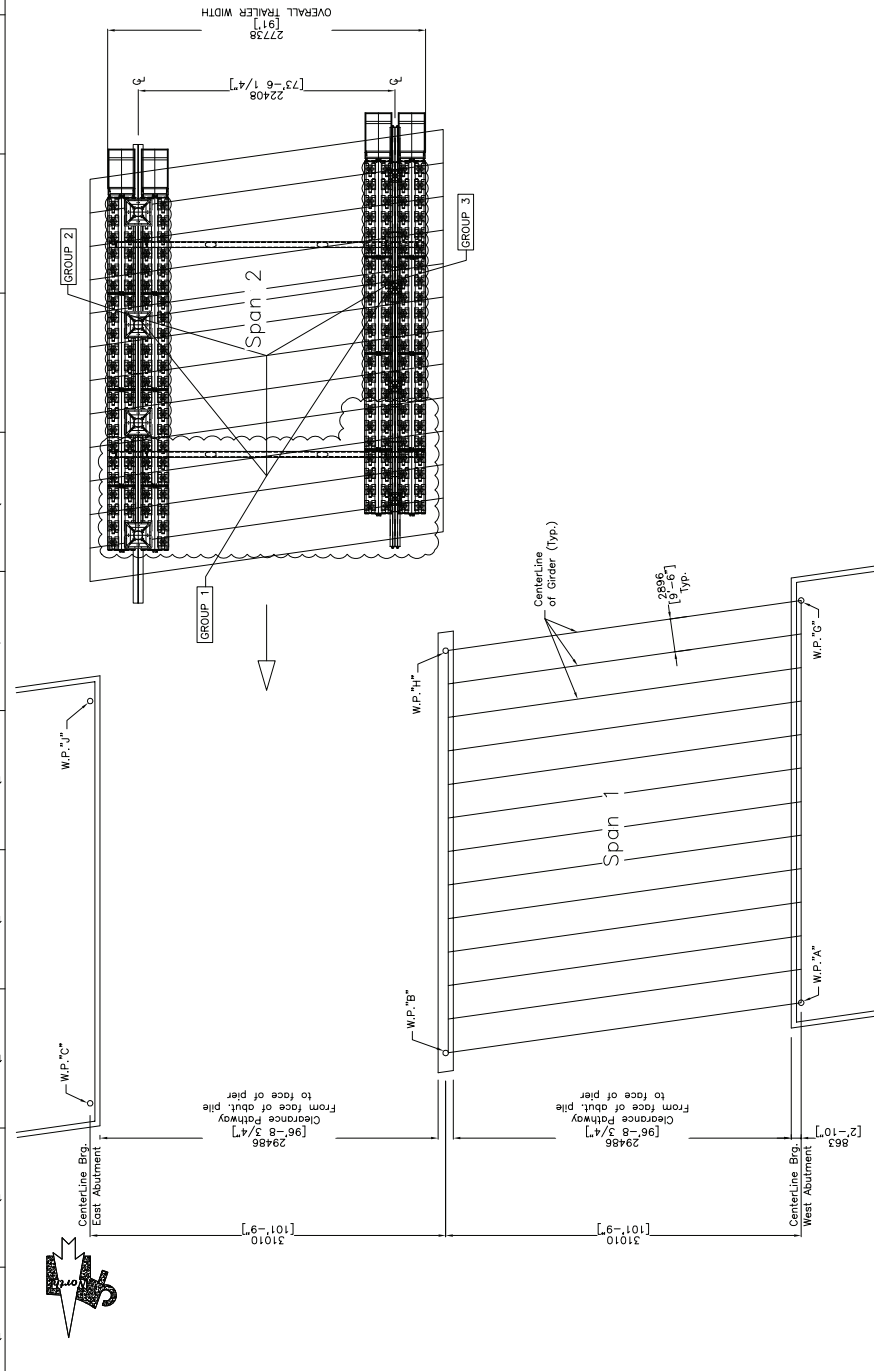
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 MAMMOET LUNDA
 10000 Highway 79903
 Tel: +1 (817) 290-2200 Fax: +1 (817) 290-2178
 © 2000 MAMMOET [OSDP-02-01-01]

SCALE: 1/8" = 1'-0" SIZE: D

SAP No: 7000085206 PROJECT No: 0010057233 - P154 - D - T03 - 1/10 - 05

DRAWING NUMBER: PART: SHEET: REV.

Weight of each span/superstructure: 1189Te [2622Kips]



QTY	DESCRIPTION	WEIGHT PER UNIT
4	W10x60 MATS 4'2"X15'1/2" LSP155010	4,500 Lbs
2	W10x60 MATS 3'4"X15'1/2" LSP154010	3,570 Lbs
4	W12x45 MATS 4'X25'1/2" LSP254812	6,450 Lbs
6	RO-204010 20'Lg Ramp	4,250 Lbs
4	SU-48-450-1 4' Stands	3,040 Lbs
4	CL-DA-500-2 Climbing Jack with hoses	4,540 Lbs
2	90' Beam #5323578 & #5323579	34,620 Lbs
4	HY-DA-250-1 Megapack with hoses	15,520 Lbs
2	PPU for Climbing Jacks and Megapacks	
2	W16x300 Double Beam SUB-601737-01	56,000 Lbs
2	W16x300 Double Beam SUB-663537-02	56,800 Lbs
416	100x100x1000 Hardwood Block	20 Lbs
12	Standard Coupling Blocks	80 Lbs
8	35ton Standard Shackles	15 Lbs
48	Plateys Plates	110 Lbs
100	Plywood (23x23x1/4)	4.6 Lbs
100	Plywood (23x23x3/8)	6.9 Lbs
100	Plywood (23x23x1/2)	9.3 Lbs
8	TU-32 Tirdor	
TBD	20T 3/4" Chain with binders	



EXP. 6-30-14

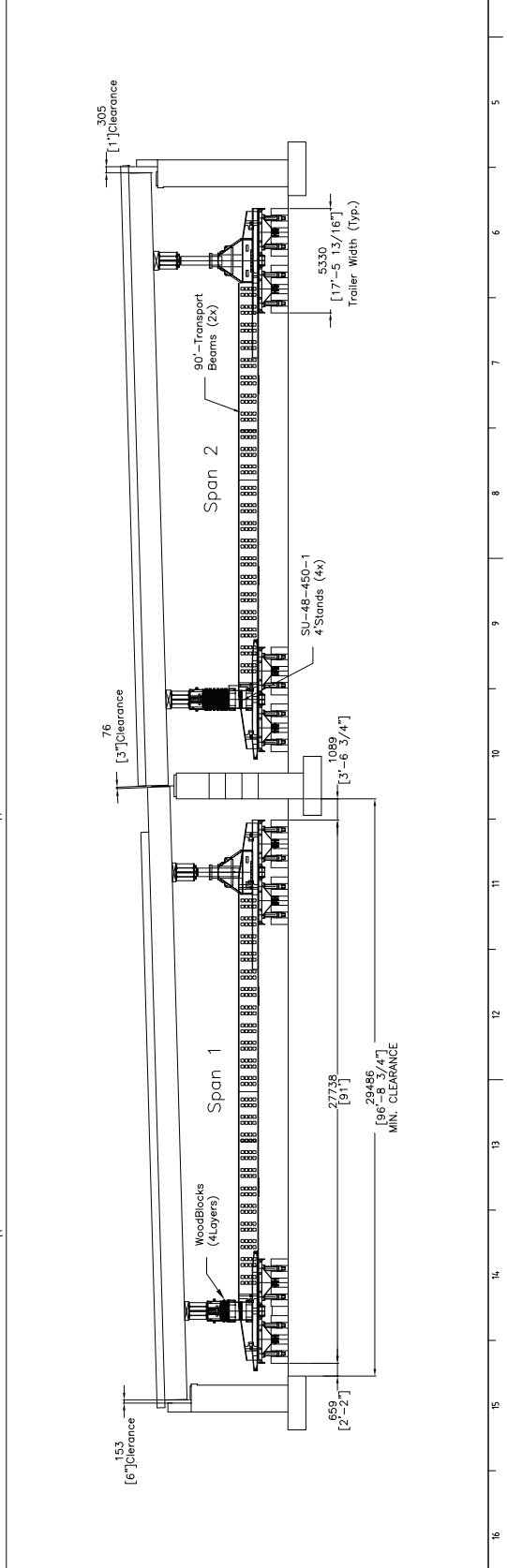
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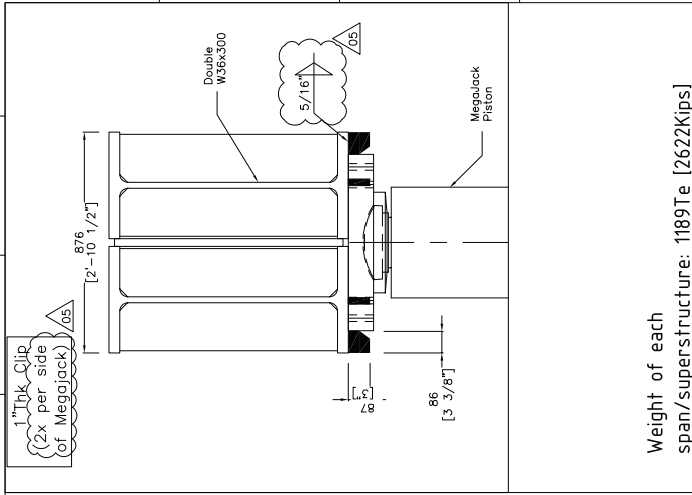
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CLIENT: **LUNDA**
 PROJECT: **St. Paul Maryland Ave. Bridge Transport**
 TITLE: **Transport of two Superstructures to Abutments and Pier (2) Double 22-Line Trailers**

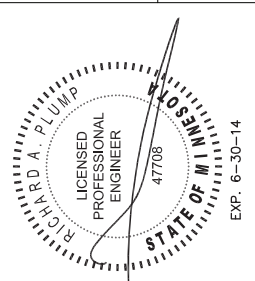
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SCALE: NTS SIZE: D
 SAP No.: 7000085206
 PROJECT No.: 0010057233-P154-D-703
 DRAWING NUMBER: 2/10-05





Weight of each span/superstructure: 1189Te [2622Kips]



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
05	Issued For Execution	06AUG12	MM	MM
04	For Approval	20JUL12	MM	MM
03	For Approval	06JUN12	MM	MM
02	In Progress	30APR12	MM	MM
01	In Progress	26APR12	MM	MM
00	In Progress	17APR12	MM	MM

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CLIENT: LUNDA

PROJECT: St. Paul Maryland Ave. Bridge Transport

TITLE: Transport of two Superstructures (Trailers, Abutments and Pier Details)

(2) Double 22-Line Trailers

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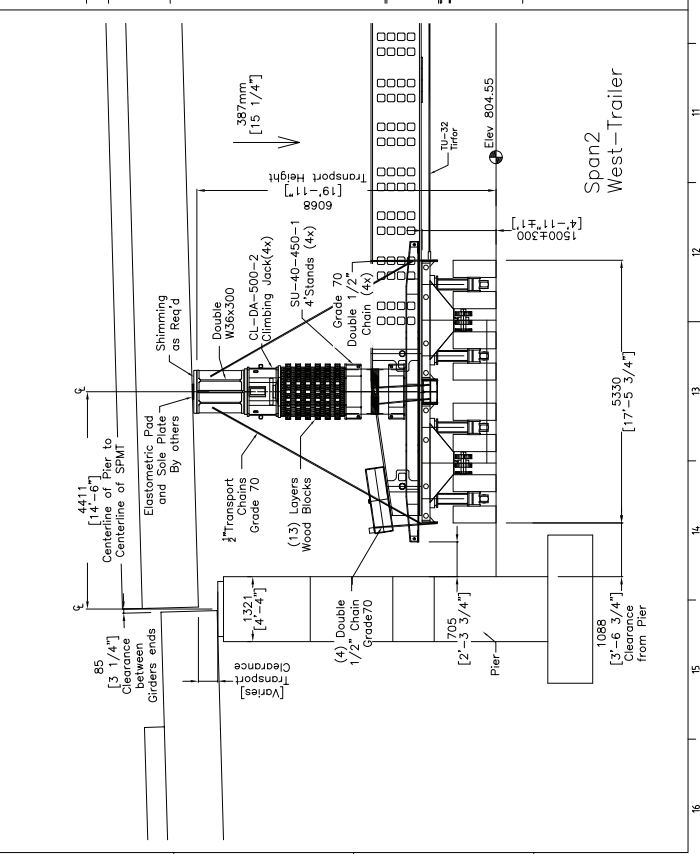
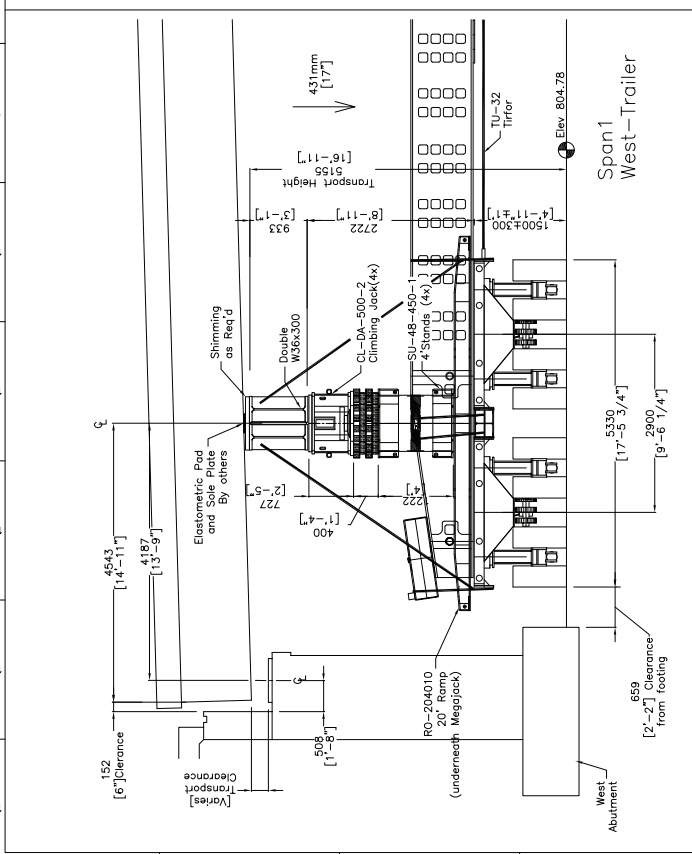
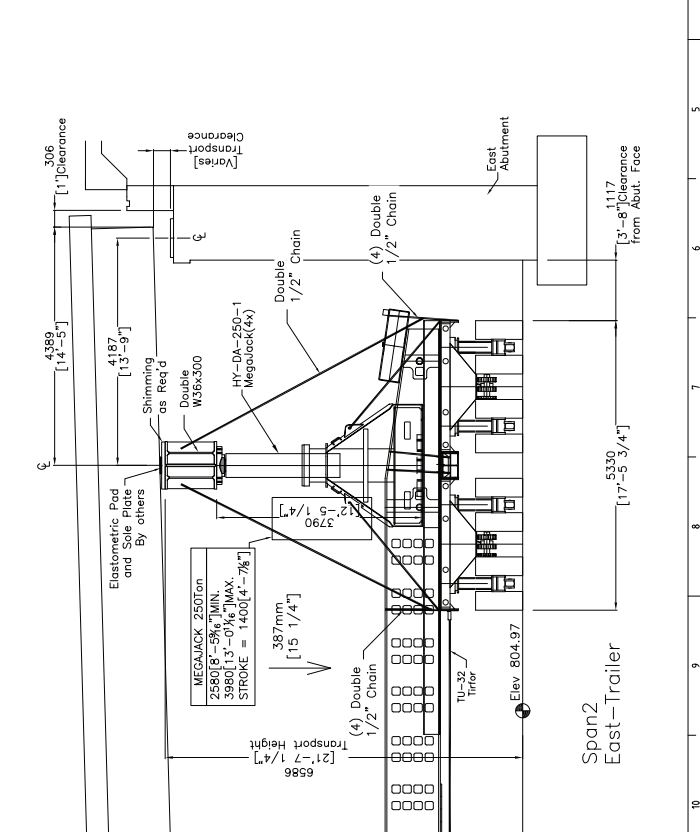
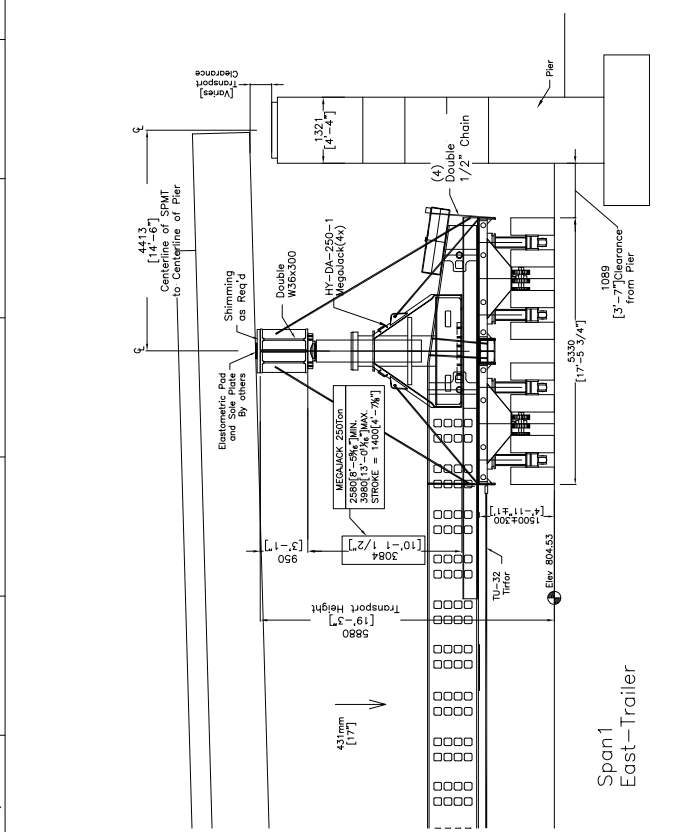
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11111 Highway 75, 75053
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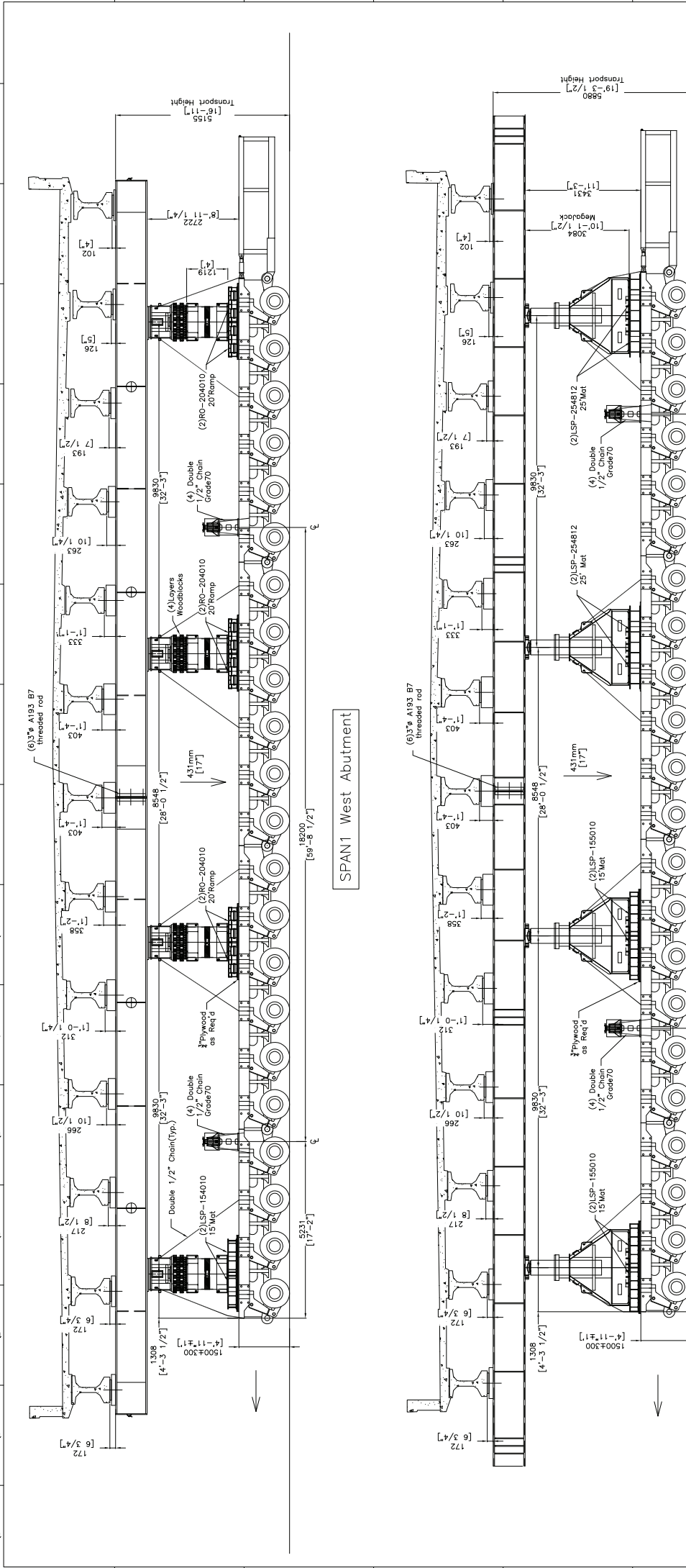
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SAP No.: 7000065206

PROJECT No.: 0010057233-P154-D-703

SHT. REV. 3/10-05





REV.	DESCRIPTION	DATE	DRAWN	CHECKED
05	Issued For Execution			
04	For Approval	06/JUN/12	AMG	MM
03	For Approval	06/JUN/12	AMG	MM
02	In Progress	30/APR/12	AMG	MM
01	In Progress	26/APR/12	AMG	MM
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CLIENT: **LUNDA**

PROJECT: **St. Paul Maryland Ave. Bridge Transport**

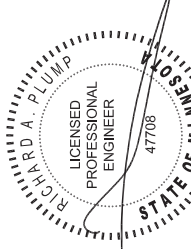
TITLE: **Transport of two Superstructures**

Span 1

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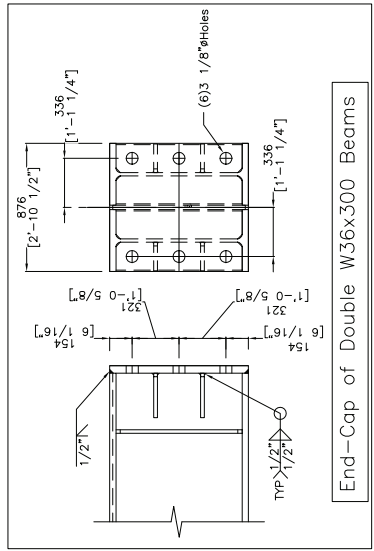
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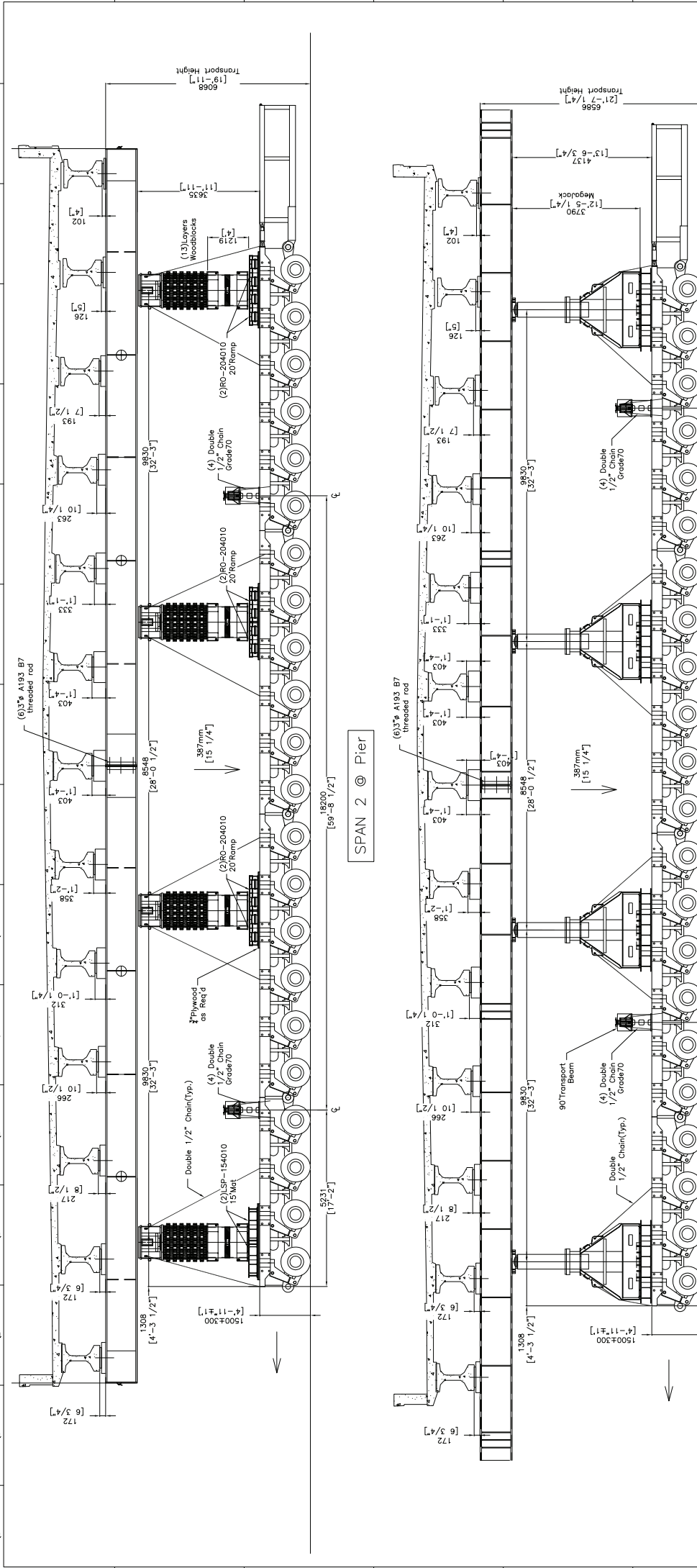
EXP. 6-30-14

Weight of each span/superstructure: 1189Te [2622Kips]

SPAN1 @ Pier



End-Cap of Double W36x300 Beams



REV.	DESCRIPTION	DATE	DRAWN	CHECKED
05	Issued For Execution	06AUG14	MM	MM
04	For Approval	20JUL12	MM	MM
03	For Approval	06JUN12	MM	MM
02	In Progress	30APR12	MM	MM
01	In Progress	26APR12	MM	MM
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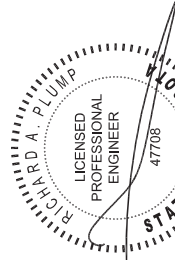
CLIENT: **LUNDA**

PROJECT: **St. Paul Maryland Ave. Bridge Transport**

TITLE: **Span 2
Trailers - Side Views**



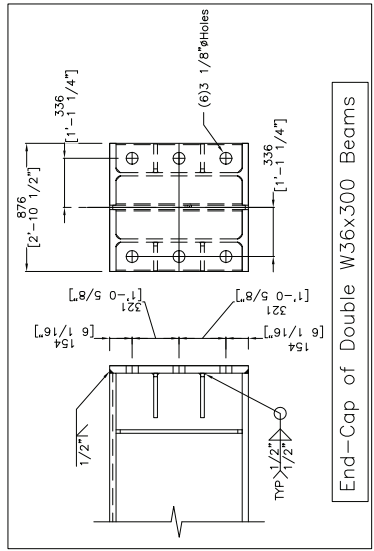
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EXP. 6-30-14

Weight of each span/superstructure: 1189Te [2622Kips]

SPAN2 @ East Abutment



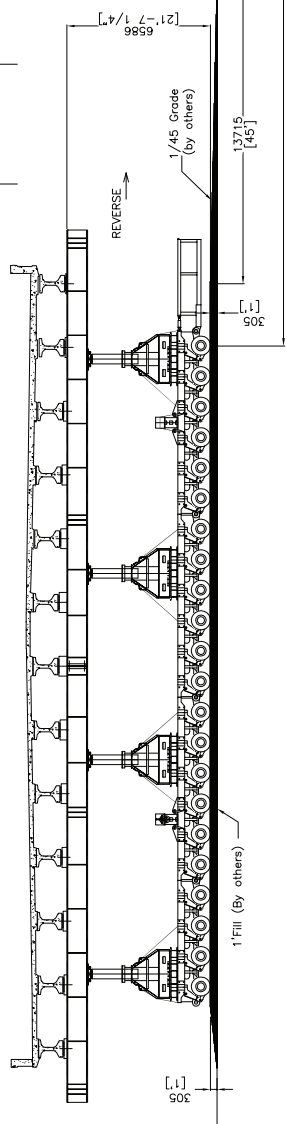
End-Cap of Double W36x300 Beams

North

44195
[145]
BSA #2

5488
[18]

44195
[145]
BSA #1



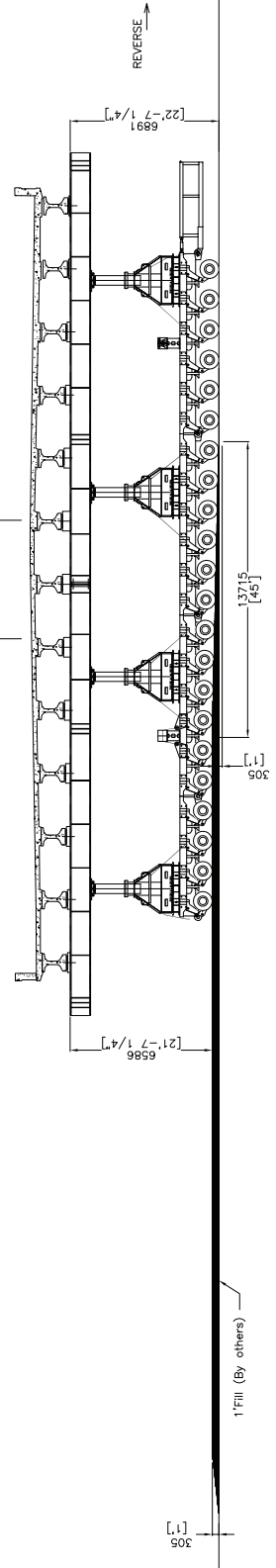
SPAN 2 moving from BSA #2 to BSA #1

North

44195
[145]
BSA #2

5488
[18]

44195
[145]
BSA #1



SPAN 2 moving to BSA #1

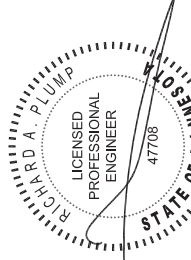
Weight of each span/superstructure: 1189Te [2622Kips]

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01	In Progress	26APR12	MM
00	In Progress	17APR12	MM
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CLIENT: **LUNDA**
 PROJECT: **St. Paul Maryland Ave. Bridge Transport**

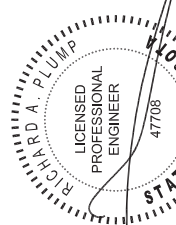
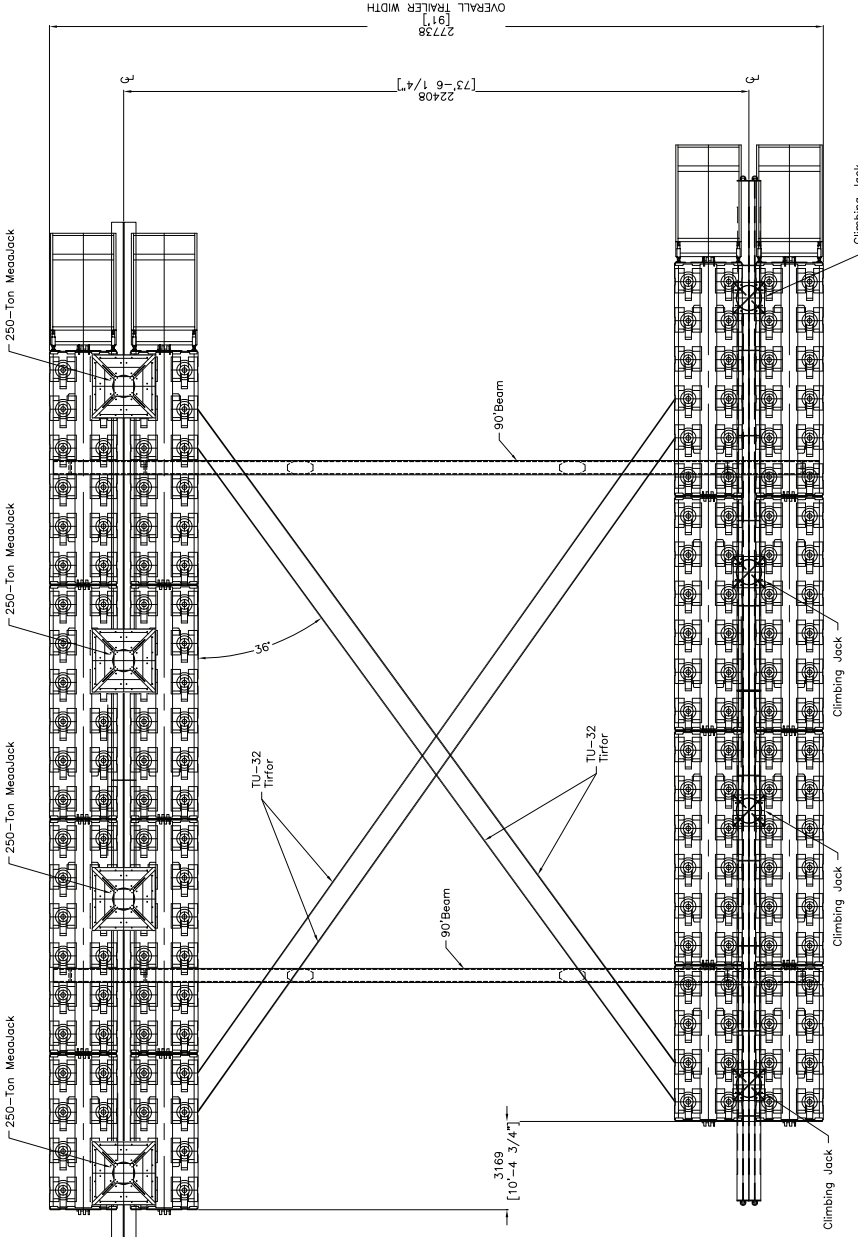
TITLE: **Transport of two Superstructures
 Span 2 (West-Trailer)
 Moving from BSA #2 to BSA #1**

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 MAMMOET USA
 10000 Woodloch Forest Dr., Suite 100
 Houston, TX 77036
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SCALE: MTS SIZE: D DRAWING NUMBER:
 PROJECT No.: 0010057233 - P154 - D - 703 - 6/10 - 05
 SHEET: 3

Weight of each span/superstructure: 1189Te [2622Kips]



EXP. 6-30-14

REV.	DESCRIPTION	DATE	DRAWN	CHECKED
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02	In Progress	30APR12	AMG	AMG
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CLIENT: **LUNDA**

PROJECT: **St. Paul Maryland Ave. Bridge Transport**

TITLE: **Trailer Transport of two Superstructures**

Scale: NTS SIZE: D

SAP No: 7000085206

PROJECT No: 0010057233 - P154 - D - T03 - 7/10 - 05

DRAWING NUMBER

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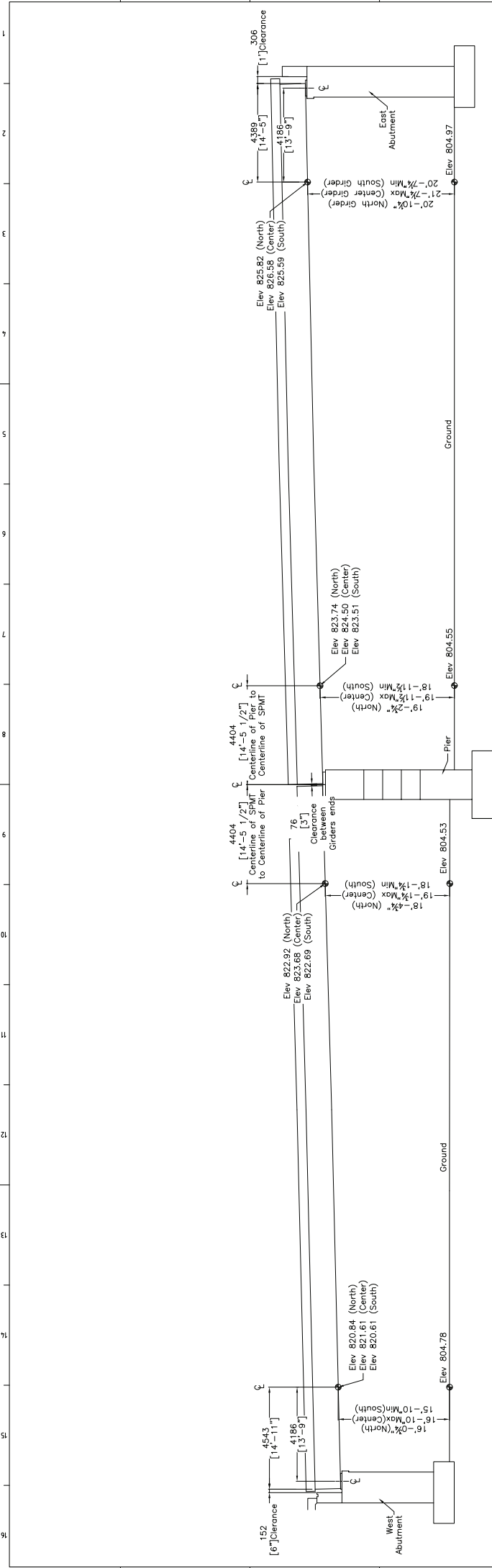
MAMMOET LUNDA
 10000 Old Highway, TX 77063
 TEL: +1 (817) 280-2007 Fax: +1 (817) 280-2178

SCALE: NTS SIZE: D

SAP No: 7000085206

PROJECT No: 0010057233 - P154 - D - T03 - 7/10 - 05

DRAWING NUMBER



Ground and Bottom of Girder Elevations

Final Dimensions

Weight of each span/superstructure: 1189Te [2622Kips]

REV.	DESCRIPTION:	DATE:	DRAWN:	CHECKED:
05	Issued For Execution	06AUG12	MM	MM
04	For Approval	20JUL12	MM	MM
03	For Approval	06JUN12	MM	MM
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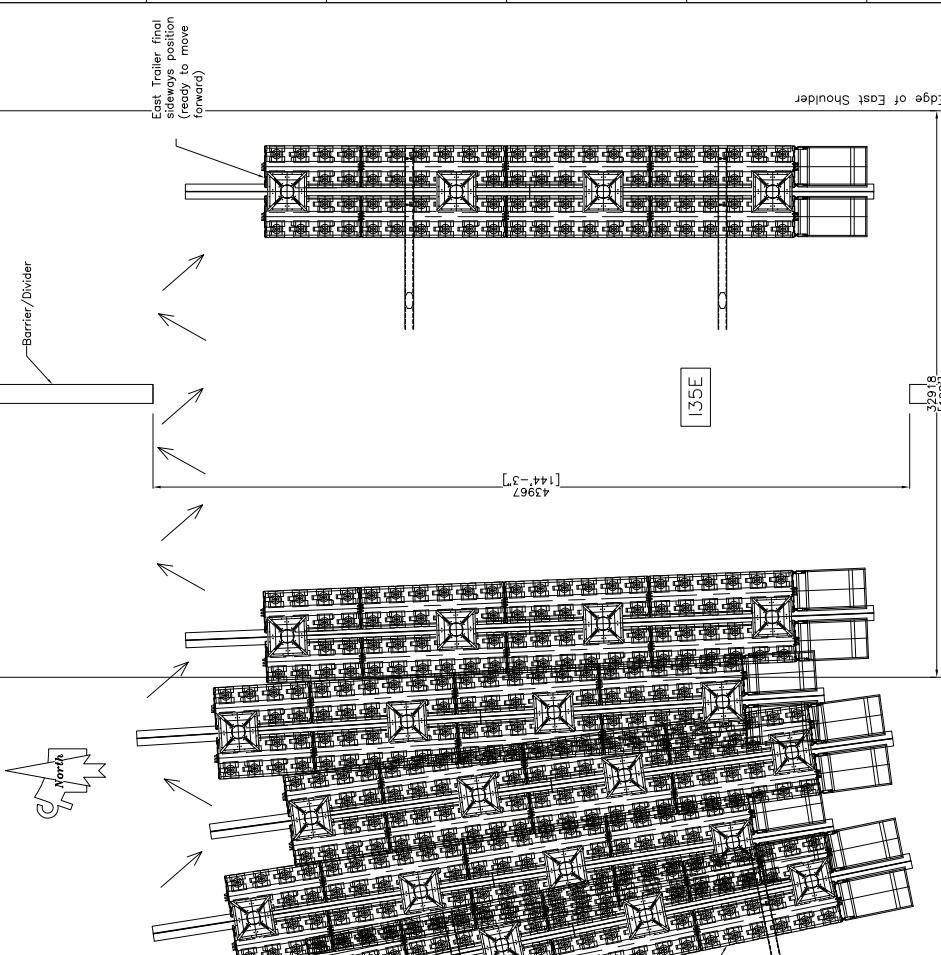
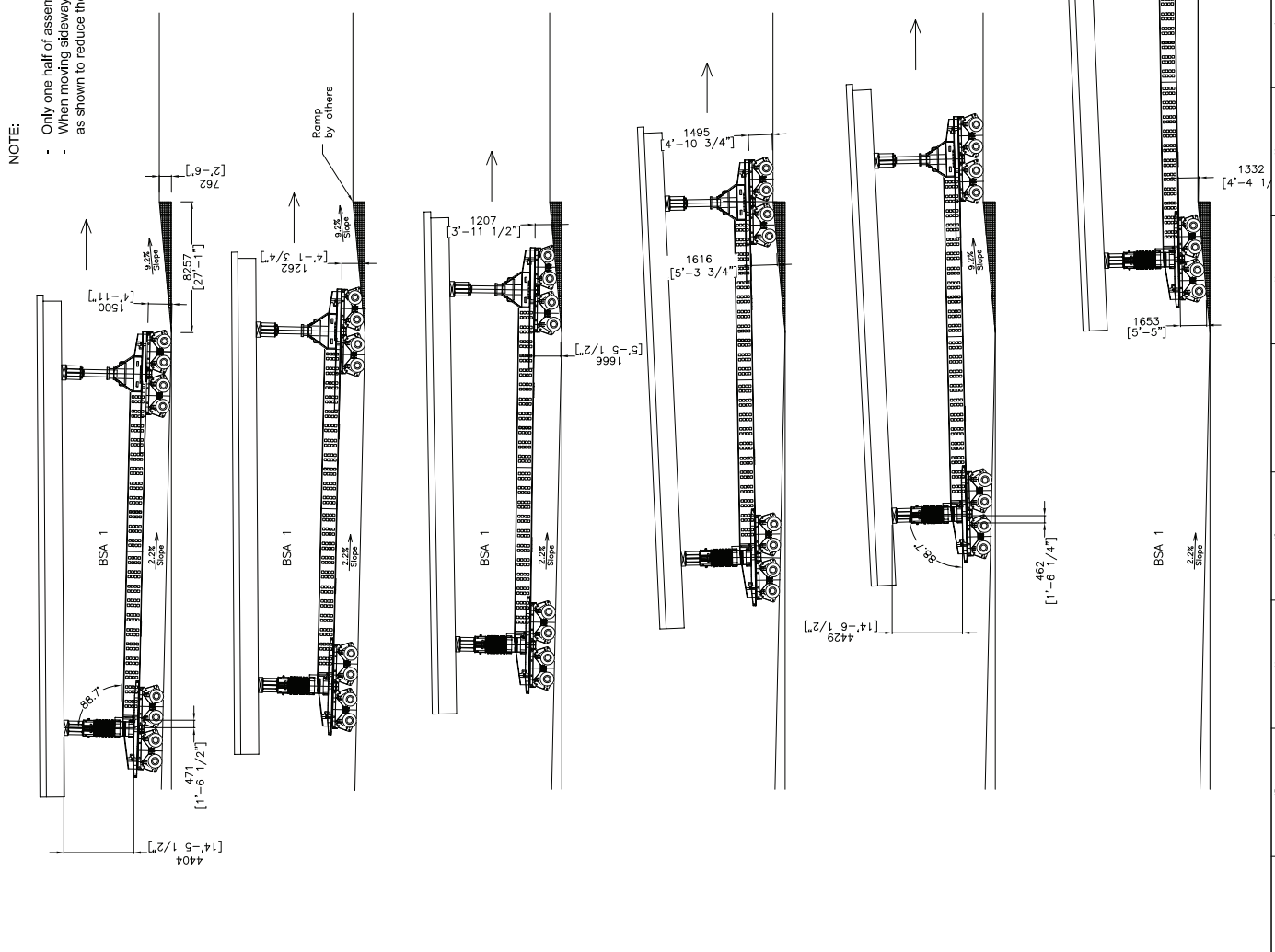
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 PROJECT: **St. Paul Maryland Ave. Bridge Transport**
 TITLE: **Transport of two Superstructures**
Ground and Bottom of Girder Elevations
Final Dimensions



SCALE: MTS SIZE: D
 SAP No: 7000085206
 PROJECT No: 0010057233 - P154 - D - 703 - 8/10 - 05
 DRAWING NUMBER: 7000085206
 SHEET: 10 OF 10

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NOTE:
 - Only one half of assembly shown in plan view
 - When moving sideways, trailers should move as shown to reduce the side loads.

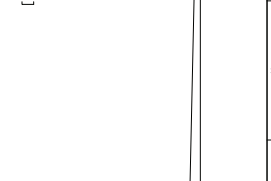
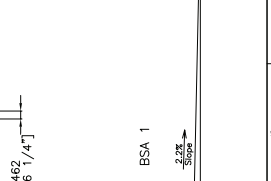
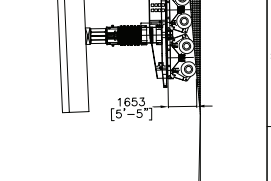
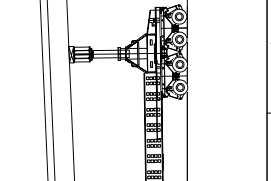
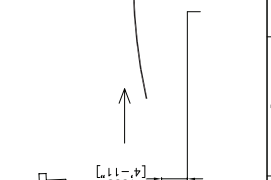
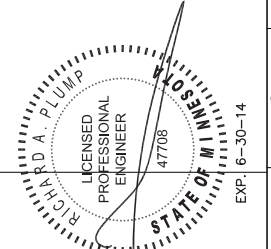


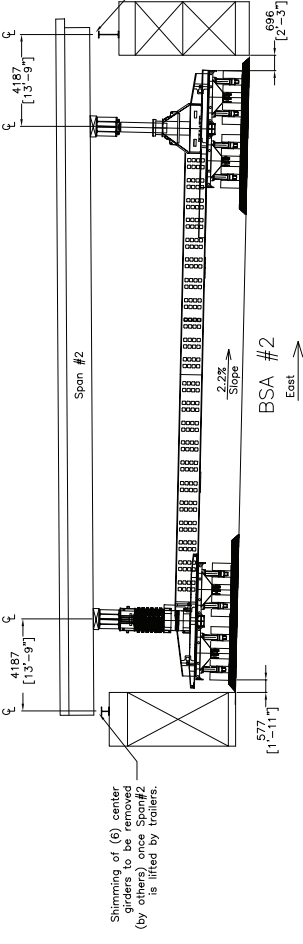
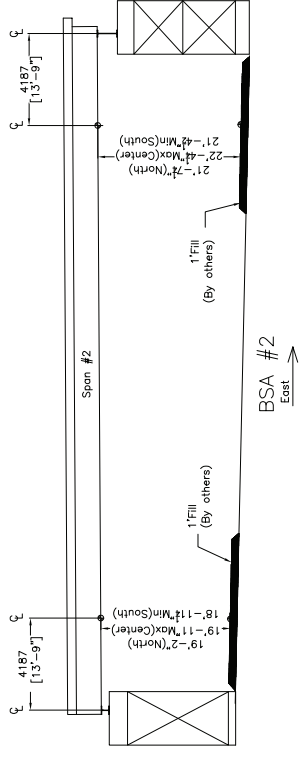
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REV. DESCRIPTION:		DATE:	DRAWN:	CHECKED:

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 CLIENT: **LUNDA**
 PROJECT: **St. Paul Maryland Ave. Bridge Transport**
 TITLE: **Transport of two Superstructures Moving Sideways from BSA#1 to Interstate 35E**

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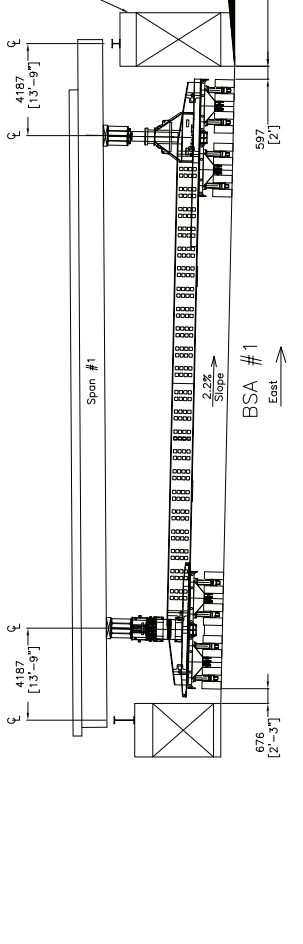
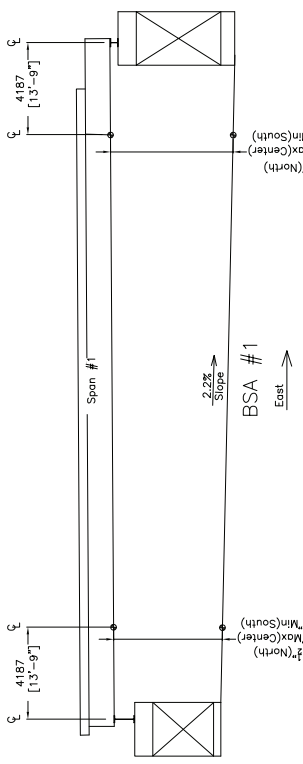
SCALE: NTS SIZE: D DRAWING NUMBER: 7000085206 PROJECT No.: 0010057233 - P154 - D - 703 - 9/10 - 05 SHEET: 3





Shimming of (6) center girders to be removed (by others) once Span#2 is lifted by trailers.

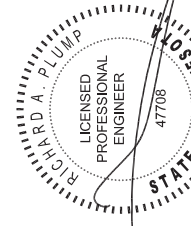
Bearing of (6) center girders to be removed (by others) once Span#2 is lifted by trailers.



Towers to be removed (by others) as soon as Span #1 is lifted by trailers.

Earth ramp to be built (by others) as soon as towers be removed.

Weight of each span/superstructure: 1189Te [2622Kips]



05	Issued For Execution	06AUG14	AMG	AMG
04	For Approval	20JUL12	AMG	AMG
03	For Approval	06JUN12	AMG	AMG
02	In Progress	30APR12	AMG	AMG
01	In Progress	26APR12	AMG	AMG
00	In Progress	17APR12	AMG	AMG
REV. DESCRIPTION:		DATE:	DRAWN:	CHECKED:
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PROJECT: LUNDA				
PROJECT: St. Paul Maryland Ave. Bridge Transport				
TITLE: Transport of two Superstructures				
TITLE: Bridge Staging Area				
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