

September 24, 2025

Office of Procurement & Auxiliary Services
Kent Wyatt Hall, Suite 221
1002 Coliseum Drive
Cleveland, MS 38733
Attn: Mechelle Jones

RE: Baseball/Softball Lighting RFB
Vendor Question #1 - CORRECTION

Mechelle,

On 9/18/25 I provided the wrong drawing in response to Kenneth Tumlinson's question. This document is to serve as a correction to my 9/18/25 response. Please post both question and response publicly so that all potential vendors have access to the information.

Question (Kenneth Tumlinson, 9/17/25)

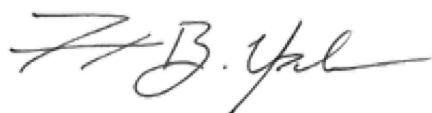
Please provide the following information:

- 1) Height of the existing poles
- 2) Voltage information for the current fixtures
- 3) Any additional information on the existing structure and fixtures.

Response (Delta State University, 9/24/25)

See file labeled "Attachment 1" for information regarding the current baseball lights. Unfortunately, I do not have information on the softball lights.

Sincerely,



Forrest B. Upchurch

Revision Level : 3

Order 08/07/95 Order# 15734

All PROFILE information should be verified with final order information

Project# GH11154

Project DELTA STATE UNIV BB

Status 7

TST ALABAMA/MISSISSI City CLEVELAND

ST/Prov MS Country USA

PRODUCTION

SOLD TO SCOTT ELECTRIC

SCHEDULED 09/25/95 PRODUCED

SHIPPED

DELIVER NLT

VERSION# 9

POLE TYPE LS

STD/REM R

FINISH G

PLATFORMS NOT Required

FUSING Required

LAMPS Required

WARRANTY 7 years parts; 2 years labor

OSA APPROVAL? N

FIELD INFORMATION:

FIELD	SP	N/R	SC	TFED	WATT	MWATT	LAMP	VOLT	PHASE	SCAN
1 DeltaStBB	BB	N	2		15		MZ	480	3	11154A

SPORTSCLUSTER CONFIGURATION:

FLD	POL	MH	FIX	2P	3P	4P	5P	6P	1A	1E	3E	5E	MTG	CFG	DWG
1	A1	80	8			2							F	65RFL	
1	A2	80	8			2							F	65RFL	
1	C1	70	12					2					F	663RFL	
1	C2	70	13		1	1		1					F	664RFL	
1	D1	70	11				1	1					F	87RFL	
1	D2	70	11				1	1					F	87RFL	
1	B1	80	27		1			4					F	99955RFL	
1	B2	80	27		1			4					F	99955RFL	
TOT	8		117		3	5	2	13							

POLE SPECIFICATIONS:

WIND = 80

GUST =

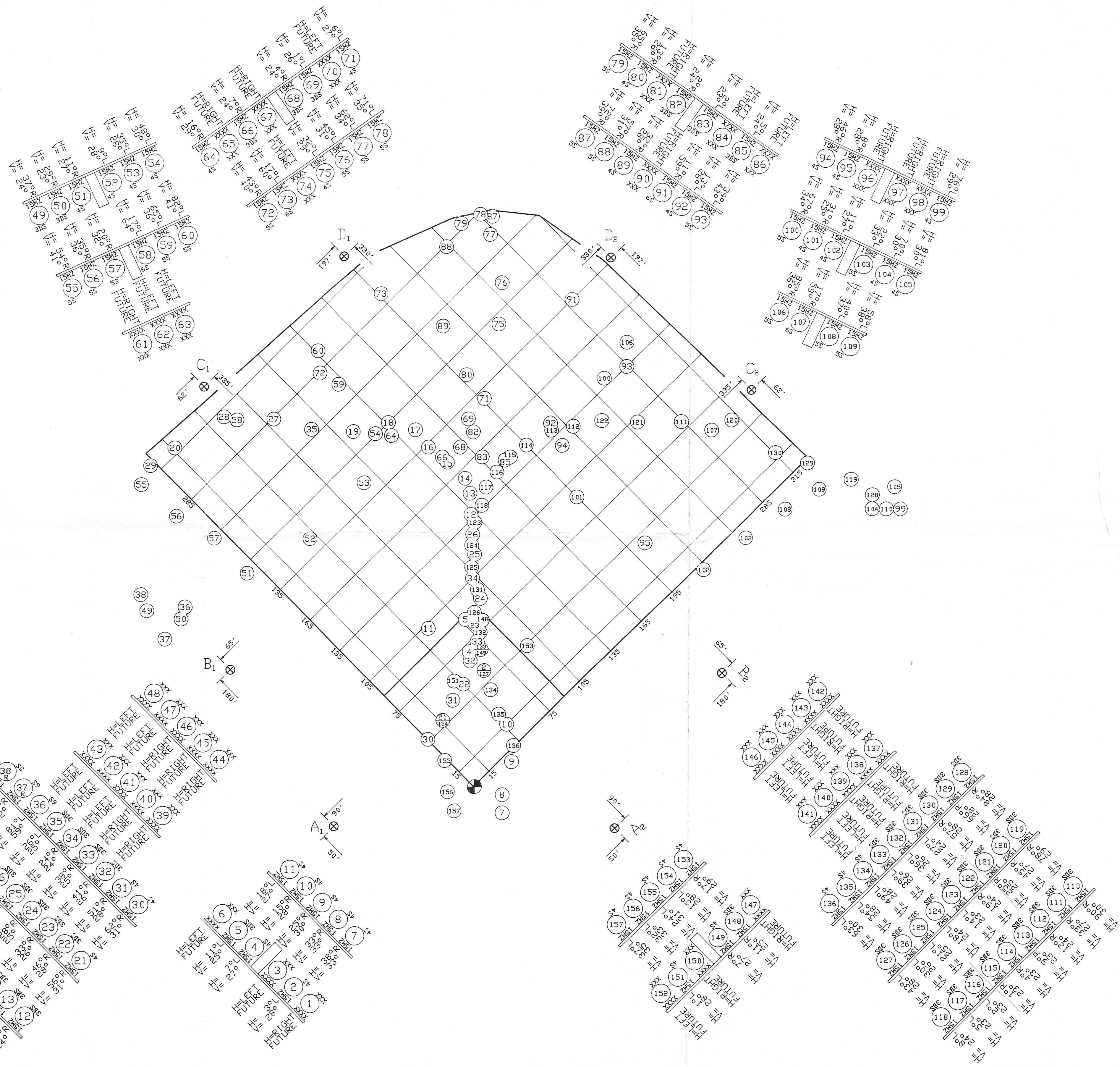
STANDARD = SBC-N

POL	TYP	FIN	MH	LEN	FIX	EPA	CLASS	PLAT	STEP	CPLG	HH	TOP-D	BOT-D
A1	LS	G	80	80	8	30.8	80A	0		0	0	0.0	0.0
A2	LS	G	80	80	8	30.8	80A	0		0	0	0.0	0.0
B1	LS	G	90	90	27	103.6	90B	0		0	0	0.0	0.0
B2	LS	G	90	90	27	103.6	90B	0		0	0	0.0	0.0
C1	LS	G	70	70	12	42.0	70B	0		0	0	0.0	0.0
C2	LS	G	70	70	13	44.8	70B	0		0	0	0.0	0.0
D1	LS	G	70	70	11	42.0	70B	0		0	0	0.0	0.0
D2	LS	G	70	70	11	42.0	70B	0		0	0	0.0	0.0

BROKERAGE REQUIRED:

POLES:

ELECTRIC:



NOTE:
 Fixture #'s 1,3,6, 39-48, 81,84,90, 96-98, 137-146, 147,150 & 152 are future fixtures. These fixtures are included in fixture counts and kilowatt consumption figures. Current fixture count (total) is 117. Kilowatt consumption for current fixtures is 187.20 KW.

Pole location dimensions are relative to the 0,0 reference point which is home plate as indicated by...
 * Refer to amperage draw for electrical sizing.
 This aiming per scan number(s): 11154A Dated: 5-SEP-95
 Order number: 15734

JOB CLEVELAND, MS DELTA STATE UNIV. BB 330' / 400' / 330' BB FIELD				REVISIONS:	
APPROX. FOOTCANDLE LEVEL MAINT. 0.8				LAMP TYPE:	1500W MH SC2
MAX. TO MIN. RATIO NOT TO EXCEED:				FINISH:	GALVANIZED
2:1/2.5:1				DATE:	8-SEP-95
POLES		LUMINAIRES		ELECTRICAL LOAD	WIND EPA
POLE QUANTITY	POLE LOCATION	MOUNTING HEIGHT	CATALOG #	FIXTURES PER POLE	* KILOWATT CONSUMPTION
2	A1,2	80'	LS-1500-11	11	17.60
2	B1,2	90'	LS-1500-37	37	59.20
	C1	70'	LS-1500-15	15	24.00
2	D1,2	70'	LS-1500-15	15	24.00
	C2	70'	LS-1500-16	16	25.60
8	TOTALS			157	251.20

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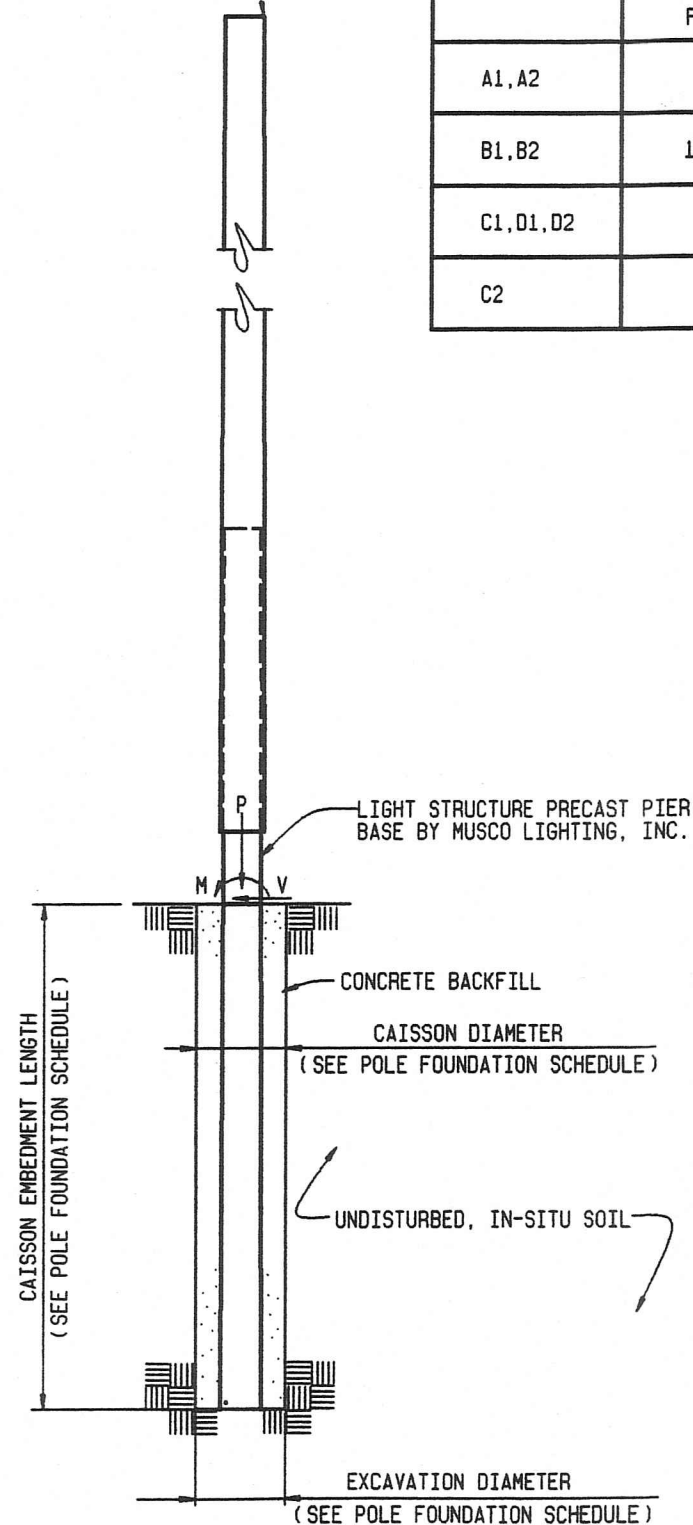
BALLAST SPECIFICATIONS									
90 Minimum Power Factor									
SINGLE PHASE VOLTAGE (Also applicable to each single phase of a 3 phase system.)		120	208	240	277	347	380	415	480
1500 WATT METAL HALIDE LAMP Operating line amperage per fixture max. draw		14.2	8.1	7.1	6.1	4.8	4.4	4.0	3.5
1000 WATT METAL HALIDE LAMP Operating line amperage per fixture max. draw		9.5	5.4	4.8	4.1	3.3	3.0	2.7	2.4

SPORTCLUSTER, Light-Structure System, and Light-Pak are covered by one or more of the following U.S. patents: 4729304, 4190881, 4374407, D257891, 4729077, 4450507, 4816974, 4947303, 5016150, 5134557, 5075828, D337168, 5229681, 5211473, 4994718, 5161883 Canadian patents: 11114708, 1181380, RD 1992 Musco #70479, RD 1994 Musco #73755. Other patents pending.

VOLTAGE: 480V 3Ø
 APPROVED BY: *M. G. F. C.*
 REPRESENTATIVE: *G. HALL*
 PROJECT: *GHA11154*
 DRAWING NUMBER: 11154AR1

MUSCO LIGHTING, INC.
 P.O. Box 14
 2107 Stewart Road
 Muscatine, Iowa 52761
 319/263-2281

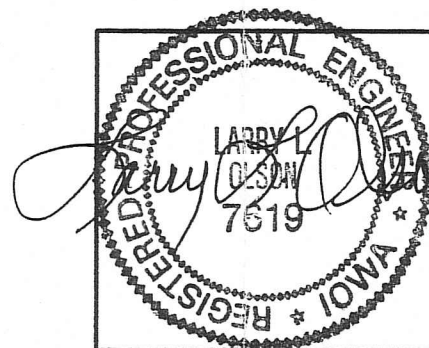
LIGHT STRUCTURE STEEL POLE
BY MUSCO LIGHTING, INC.
(SEE POLE IDENTIFICATION)



LIGHT POLE FOUNDATION DETAIL

POLE FOUNDATION SCHEDULE					
MARK	FORCES			CAISSON	
	MOMENT (M) FT-LBS	SHEAR (V) LBS	VERTICAL (P) LBS	DIAMETER INCH	EMBEDMENT LENGTH
A1, A2	69,643	1,159	2,344	30	14'-0"
B1, B2	188,367	2,601	5,077	30	16'-0"
C1, D1, D2	69,949	1,167	2,236	30	12'-0"
C2	73,667	1,215	2,311	30	12'-0"

POLE IDENTIFICATION				
LOCATION MARK	TYPE	FIXTURE CONFIGURATION (FIXTURES PER CROSSARM)	FIXTURE EPA	
A1, A2	LS80-A	11 (6+5)	30.8	
B1, B2	LS80-B	37 (8+8+7+7+7)	103.6	
C1, D1, D2	LS70-B	15 (8+7)	42.0	
C2	LS70-B	16 (8+8)	44.8	



GENERAL NOTES

WIND: 80 MPH (STANDARD EXPOSURE) PER SBC CODE, 1991 EDITION.

SOIL DESIGN PARAMETERS

ALLOWABLE END BEARING SOIL PRESSURE: 1,800 PSF
ALLOWABLE LATERAL SOIL BEARING PRESSURE: 333 PSF/FT (3996 PSF MAXIMUM)
4/3 STRESS INCREASE HAS BEEN INCLUDED FOR WIND DURATION LOADING
IN ACCORDANCE WITH 1991 EDITION OF UNIFORM BUILDING CODE, CHAPTER 29,
SECTION 2907. SEE TABLE NO 29-B, FOOTNOTE 4, SOIL MATERIAL CLASS 5.

DESIGN SOIL PARAMETERS ARE AS NOTED. ACTUAL ALLOWABLE SOIL
PARAMETERS MUST BE VERIFIED ON SITE. REFERENCE SOILS AND FOUNDATION
LAB NO. 94-I-140, PREPARED BY SPRINGER ENGINEERING, INC., STARKVILLE,
MISSISSIPPI.

A REPRESENTATIVE OF SPRINGER ENGINEERING, INC., SHOULD BE
AVAILABLE AT THE TIME OF THE FOUNDATION INSTALLATION TO VERIFY
THE SOIL DESIGN PARAMETERS AND TO PROVIDE ASSISTANCE IF ANY PROBLEMS
ARISE IN FOUNDATION INSTALLATION.

IF ANY DISCREPANCIES OR INCONSISTENCIES ARISE, NOTIFY THE
ENGINEER OF SUCH DISCREPANCIES. FOUNDATIONS WILL THEN BE REVISED
ACCORDINGLY. THESE REVISIONS WILL BE ANALYZED PER RECOMMENDATIONS
DIRECTED BY A REGISTERED ENGINEER IN MISSISSIPPI.

ALL PIERS AND CONCRETE BACKFILL MUST BEAR ON AND AGAINST FIRM,
UNDISTURBED SOIL.

ALL EXCAVATION MUST BE FREE OF WATER AND LOOSE SOIL AND DEBRIS
PRIOR TO FOUNDATION INSTALLATION AND PLACEMENT OF CONCRETE BACKFILL.

IF TEMPORARY CASINGS ARE USED TO STABILIZE THE EXCAVATION, THEY
MUST BE REMOVED DURING CONCRETE BACKFILL PLACEMENT.

ENCOUNTERING SOIL FORMATIONS THAT WILL REQUIRE SPECIAL DESIGN
CONSIDERATIONS OR EXCAVATION PROCEDURES MAY OCCUR. POLE FOUNDATIONS
WILL NEED TO BE ANALYZED ACCORDING TO THE SOIL CONDITIONS THAT EXIST.

THE CONTRACTOR MUST FAMILIARIZE HIMSELF WITH THE COMPLETE SOIL
INVESTIGATION, REPORT AND BORINGS, AND CONTACT THE A FIRM
(IF NECESSARY) TO UNDERSTAND THE SOIL CONDITIONS AND THE POSSIBILITY
OF GROUND WATER PUMPING AND EXCAVATION STABILIZATION OR BRACING
DURING PIER BASE INSTALLATION AND PLACEMENT OF CONCRETE BACKFILL.

CONCRETE SHALL BE AIR-ENTRAINED AND HAVE A MINIMUM COMPRESSIVE
STRENGTH AT 28 DAYS OF 3,000 PSI.

CONCRETE BACKFILL SHALL BE CURED TO A MINIMUM STRENGTH OF 300 PSI
(CANNOT PENETRATE CONCRETE WITH A 1/2" DIA BAR SUBJECT TO A 60 LB
FORCE) PRIOR TO POLE INSTALLATION.

FIXTURES MUST BE LOCATED TO MAINTAIN 8'-0" MINIMUM HORIZONTAL
CLEARANCE FROM ANY OBSTRUCTION.

POLES, FIXTURES, PRECAST BASES, ELECTRICAL ITEMS, SPECIFICATIONS AND
INSTALLATION PER MUSCO LIGHTING, INC.

FIXTURE: EPA = 2.8, WEIGHT = 25 LBS (PER MUSCO LIGHTING, INC.)
ELECTRICAL BALLAST WEIGHT = 50 LBS PER FIXTURE SERVICED.

CERTIFICATION

I HEREBY CERTIFY THAT THESE STRUCTURAL PLANS AND SPECIFICATIONS WERE
PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY
REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

STRUCTURAL
ENGINEERS, P.C.
110 NORTH SECOND STREET
MARSHALLTOWN, IOWA 50158
TELEPHONE NUMBER: 515-752-0334
FAX NUMBER: 515-752-0669

MUSCO
SPORT-LIGHTING, INC.
2107 STEWART ROAD
MUSCATINE, IOWA 52761
319-263-2281

DELTA STATE UNIVERSITY
FERRIS FIELD
LIGHTING
CLEVELAND, MISSISSIPPI

DRAWING TITLE: SCALE: SEE PLAN
POLE SUPPORT FOUNDATION
REVISIONS:

PROJECT NO.
GHA11154

DATE:
05 JAN 1995

DRAWING NO.
OF ONE C1

Revision Level : 3
Order 08/07/95 Order# 15734 All PROFILE information should be verified with final order information
Project# GH11154 Project DELTA STATE UNIV BB Status 7
TST ALABAMA/MISSISSI City CLEVELAND ST/Prov MS Country USA

===== PRODUCTION =====

SOLD TO SCOTT ELECTRIC
SCHEDULED 09/25/95 PRODUCED SHIPPED DELIVER NLT
VERSION# 9
POLE TYPE LS STD/REM R FINISH G
PLATFORMS NOT Required FUSING Required LAMPS Required
WARRANTY 7 years parts; 2 years labor OSA APPROVAL? N

=====

BROKERAGE REQUIRED:

MISC: _____

=====

PRODUCTION NOTES:

No Production Info comments.

ORDER-POLE COUPLINGS/HANDHOLE
QUANTITY 4 (1 per pole on poles A1,B1,B2,A2)
SIZE Standard
ELEVATION: At or about 30 feet
ORIENTATION: NON-field side

08/07/95 HOLSON

ORDER-FIXTURE FUTURE FIXTURES
OF TOTAL FIXTURES(PHASE 1 AND FUTURE) 117 + 40 = 157
OF PHASE 1 FIXTURES 117
OF FUTURE FIXTURES 157
WHERE FUTURE FIXTURES WILL BE AIMED? To the field
WILL FUTURE FIXTURES BE ON SAME CIRCUIT Yes

08/07/95 HOLSON

Detail is as follows:

Pole	Now	Future
-----	-----	-----
A1-A2	8	11'
B1-B2	27	37
C1	12	15
C2	13	16
D1	11	15
D2	11	15

ORDER-FIELD POLE LOCATIONS
Pole locations are per the dwg attached to the file cover.

08/07/95 HOLSON

ORDER-FIXTURE SPECIAL ENCLOSURE CONFIG

09/08/95 JKLEIN

Revision Level : 3
Order 08/07/95 Order# 15734 All PROFILE information should be verified with final order information
Project# GHAI1154 Project DELTA STATE UNIV BB Status 7
TST ALABAMA/MISSISSI City CLEVELAND ST/Prov MS Country USA

PRODUCTION

SOLD TO SCOTT ELECTRIC
SCHEDULED 09/25/95 PRODUCED

SHIPPED

DELIVER NLT

VERSION# 9

POLE TYPE LS

PLATFORMS NOT Required

WARRANTY 7 years parts; 2 years labor

STD/REM R

FUSING Required

FINISH G

LAMPS Required

OSA APPROVAL? N

PRODUCTION NOTES:

Enclosure configurations for the A1, A2, C1, C2, D1, & D2 poles are as follows:

POLE:	LOCATION:	LOCATION:
*****	*****	*****
-	FIELD SIDE /	NON-FIELD SIDE
*****	*****	*****
	(PROVIDING ENC)	(FUT. FIXTS)
*****	*****	*****
'A1' & 'A2' /	4P-4PX /	4PX(3)
'C1' /	6P-6PX /	4PX(3)
'C2' /	6P-4P-4PX(3) /	4PX(3)
'D1' & 'D2' /	6P-6PX(5) /	4PX
	[Provide hub cover]	

%%%%%%%%%%
We are providing 27 fixtures for poles B1 & B2 at this time and may be upgrading to 37 fixtures per pole in future. Thus the configuration of the enclosures is as follows, including these additional 10 fixtures per pole:

POLE:	LOCATION:	LOCATION:	LOCATION:
*****	*****	*****	*****
'B1' 90 DEG NF- RIGHT <i>left</i>	/	NON-FIELD	/ 90 DEG NF LEFT <i>right</i>
'B2' 90 DEG NF LEFT <i>right</i>	/	NON-FIELD	/ 90 DEG NF RIGHT <i>left</i>
*****	*****	*****	*****
	(PROVIDING ENC.) /	(FUT. FIXTS) /	(PROVIDING ENC.)
*****	*****	*****	*****
	6P-6P-6PX(3) /	6P(5)-6PX(5) /	6P-6PX
	[LG BREAKER IN 6PX] /	[PROVIDE HUB COVER] /	

Poles 'B1' and 'B2' are bolt-on-bars.

JFK

12SEP95

09-08-95 Mailed to CWEBER, NMCCLEARY

09/13/95 Printed By AHATFIELD

Revision Level : 3
 Order 08/07/95 Order# 15734 All PROFILE information should be verified with final order information
 Project# GH11154 Project DELTA STATE UNIV BB Status 7
 TST ALABAMA/MISSISSI City CLEVELAND ST/Prov MS Country USA

PRODUCTION

SOLD TO SCOTT ELECTRIC
 SCHEDULED 09/25/95 PRODUCED SHIPPED DELIVER NLT
 VERSION# 9
 POLE TYPE LS STD/REM R FINISH G
 PLATFORMS NOT Required FUSING Required LAMPS Required
 WARRANTY 7 years parts; 2 years labor OSA APPROVAL? N

FIELD INFORMATION:

FIELD	SP	N/R	SC	TFED	WATT	MWATT	LAMP	VOLT	PHASE	SCAN
1 DeltaStBB	BB	N	2		15		MZ	480	3	11154A

SPORTSCLUSTER CONFIGURATION:

FLD	POL	MH	FIX	2P	3P	4P	5P	6P	1A	1E	3E	5E	MTG	CFG	DWG
1	A1	80	8			2							F	65RFL	
1	A2	80	8			2							F	65RFL	
1	C1	70	12					2					F	663RFL	
1	C2	70	13		1	1		1					F	664RFL	
1	D1	70	11				1	1					F	87RFL	
1	D2	70	11				1	1					F	87RFL	
1	B1	80	27		1			4					F	99955RFL	
1	B2	80	27		1			4					F	99955RFL	
TOT	8		117		3	5	2	13							

POLE SPECIFICATIONS: WIND = 80 GUST = STANDARD = SBC-N

POL	TYP	FIN	MH	LEN	FIX	EPA	CLASS	PLAT	STEP	CPLG	HH	TOP-D	BOT-D
A1	LS	G	80	80	8	30.8	80A	0		0	0	0.0	0.0
A2	LS	G	80	80	8	30.8	80A	0		0	0	0.0	0.0
B1	LS	G	90	90	27	103.6	90B	0		0	0	0.0	0.0
B2	LS	G	90	90	27	103.6	90B	0		0	0	0.0	0.0
C1	LS	G	70	70	12	42.0	70B	0		0	0	0.0	0.0
C2	LS	G	70	70	13	44.8	70B	0		0	0	0.0	0.0
D1	LS	G	70	70	11	42.0	70B	0		0	0	0.0	0.0
D2	LS	G	70	70	11	42.0	70B	0		0	0	0.0	0.0

BROKERAGE REQUIRED:

POLES:
 ELECTRIC:

Revision Level : 3
Order 08/07/95 Order# 15734 All PROFILE information should be verified with final order information
Project# GH11154 Project DELTA STATE UNIV BB Status 7
TST ALABAMA/MISSISSI City CLEVELAND ST/Prov MS Country USA

===== PRODUCTION =====

SOLD TO SCOTT ELECTRIC
SCHEDULED 09/25/95 PRODUCED SHIPPED DELIVER NLT
VERSION# 9
POLE TYPE LS STD/REM R FINISH G
PLATFORMS NOT Required FUSING Required LAMPS Required
WARRANTY 7 years parts; 2 years labor OSA APPROVAL? N

=====

BROKERAGE REQUIRED:

MISC: _____

=====

PRODUCTION NOTES:

No Production Info comments.

ORDER-POLE COUPLINGS/HANDHOLE 08/07/95 HOLSON
QUANTITY 4 (1 per pole on poles A1,B1,B2,A2)
SIZE Standard
ELEVATION: At or about 30 feet
ORIENTATION: NON-field side

ORDER-FIXTURE FUTURE FIXTURES 08/07/95 HOLSON
OF TOTAL FIXTURES(PHASE 1 AND FUTURE) 117 + 40 = 157
OF PHASE 1 FIXTURES 117
OF FUTURE FIXTURES 157
WHERE FUTURE FIXTURES WILL BE AIMED? To the field
WILL FUTURE FIXTURES BE ON SAME CIRCUIT Yes

Detail is as follows:

Pole	Now	Future
----	-----	-----
A1-A2	8	11
B1-B2	27	37
C1	12	15
C2	13	16
D1	11	15
D2	11	15

ORDER-FIELD POLE LOCATIONS 08/07/95 HOLSON
Pole locations are per the dwg attached to the file cover.

ORDER-FIXTURE SPECIAL ENCLOSURE CONFIG 09/08/95 JKLEIN

09/13/95 Printed By AHATFIELD

Revision Level : 3
Order 08/07/95 Order# 15734 All PROFILE information should be verified with final order information
Project# GH11154 Project DELTA STATE UNIV BB Status 7
TST ALABAMA/MISSISSI City CLEVELAND ST/Prov MS Country USA

===== PRODUCTION =====

SOLD TO SCOTT ELECTRIC
SCHEDULED 09/25/95 PRODUCED SHIPPED DELIVER NLT
VERSION# 9
POLE TYPE LS STD/REM R FINISH G
PLATFORMS NOT Required FUSING Required LAMPS Required
WARRANTY 7 years parts; 2 years labor OSA APPROVAL? N

=====

PRODUCTION NOTES:

Enclosure configurations for the A1, A2, C1, C2, D1, & D2 poles
are as follows:

POLE:	LOCATION:	LOCATION:
*****	*****	*****
-	FIELD SIDE /	NON-FIELD SIDE
*****		*****
(PROVIDING ENC)		(FUT. FIXTS)
*****		*****
'A1' & 'A2'	/ 4P-4PX /	4PX(3)
'C1'	/ 6P-6PX /	4PX(3)
'C2'	/ 6P-4P-4PX(3) /	4PX(3)
'D1' & 'D2'	/ 6P-6PX(5) /	4PX
[Provide hub cover]		

%%%%%%%%%%%%%%%%%%%%%%%%
We are providing 27 fixtures for poles B1 & B2 at this time
and may be upgrading to 37 fixtures per pole in future. Thus
the configuration of the enclosures is as follows, including
these additional 10 fixtures per pole:

POLE:	LOCATION:	LOCATION:	LOCATION:
*****	*****	*****	*****
'B1'	90 DEG NF RIGHT /	NON-FIELD /	90 DEG NF LEFT
'B2'	90 DEG NF LEFT /	NON-FIELD /	90 DEG NF RIGHT

(PROVIDING ENC.) /		(FUT. FIXTS) /	(PROVIDING ENC.)

6P-6P-6PX(3) /		6P(5)-6PX(5) /	6P-6PX
[LG BREAKER IN 6PX] / [PROVIDE HUB COVER] /			

Poles 'B1' and 'B2' are bolt-on-bars.

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12SEP95
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Status 7

TST ALABAMA/MISSISSI City CLEVELAND

ST/Prov MS Country USA

PRODUCTION

SCHEDULED 09/25/95 PRODUCED

SHIPPED

DELIVER NLT

VERSION# 9

POLE TYPE LS

STD/REM R

FINISH G

PLATFORMS NOT Required

FUSING Required

LAMPS Required

WARRANTY 7 years parts; 2 years labor

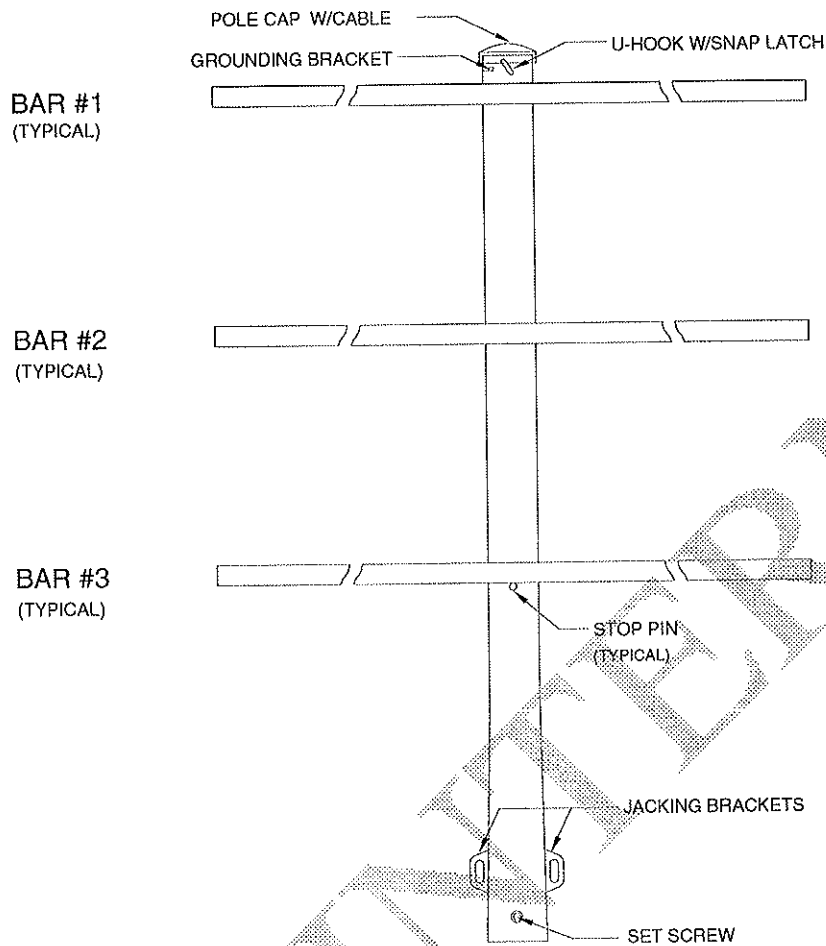
OSA APPROVAL? N

PRODUCTION NOTES:

CC:

WARRANTY NOTES:

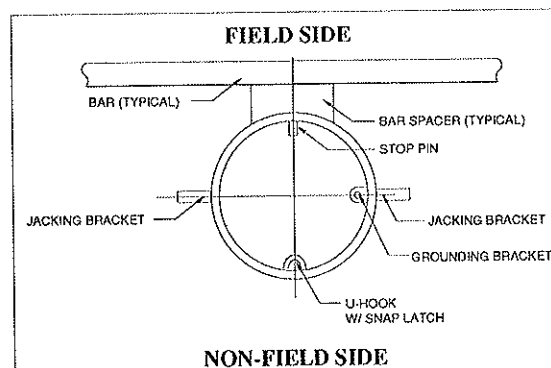
No Warranty comments.



REVISION LEVEL 1: 13-SEP-95
CORRECTED FITTER CONFIGURATION AS PER PRODUCTION SUMMARY. DAC

NOTE: ALL POLES HAVE FUTURE BALLAST BOXES ON NON-FIELD SIDE

ORIENTATION DETAIL



Qty Speaker Brkts: 0 Vertical Mtg Plates: N DSA: N

POLE	CAT #	TUBE	SPCR	CAP	STEPS	B1	B2	B3	B4	B5	H1	H2	H3	MW	BK
C1	LS70B15	1A-4.75/56	4	142	0	6F	6F	3F			6X	6			
C2	LS70B16	1A-4.75/56	4	142	0	6F	6F	4F			4XR	4	6		
D1	LS70B15	1A-4.75/56	4	142	0	8F	7F				6X	6			
D2	LS70B15	1A-4.75/56	4	142	0	8F	7F				6X	6			
											4XR				

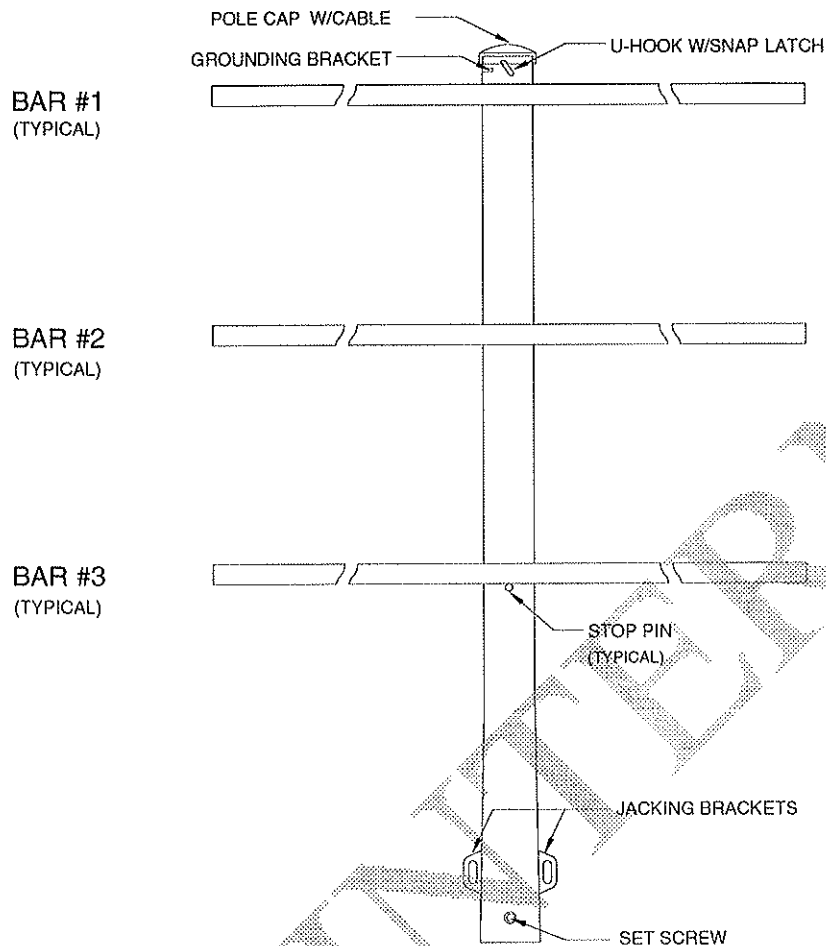
DELTA STATE UNIV BB
CLEVELAND, MS

By: *DCJ/K* Scale: NONE Date: 12-SEP-1995

Rep: ALABAMA/MISSISSI Nbr: S-GHA11154F1

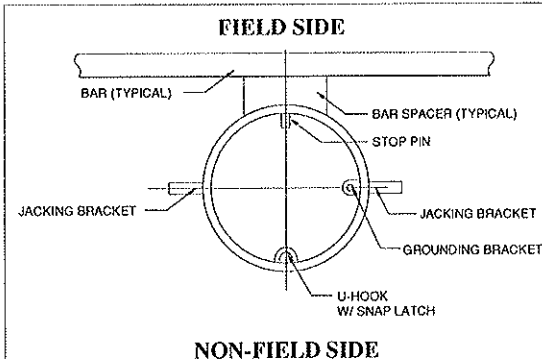
Order: 15734 Rev: 1

MUSCO
SPORTS-LIGHTING, INC.



NOTE: ALL POLES HAVE FUTURE BALLAST BOXES ON NON-FIELD SIDE.

ORIENTATION DETAIL



Qty Speaker Brkts: 0 Vertical Mtg Plates: N DSA: N

POLE	CAT #	TUBE	SPCR	CAP	STEPS	B1	B2	B3	B4	B5	H1	H2	H3	MW	BK
A1	LS80A11	2A-5.5/58	5	133	0	6F	5F				4X	4			
A2	LS80A11	2A-5.5/58	5	133	0	6F	5F				4X	4			
											4XR				

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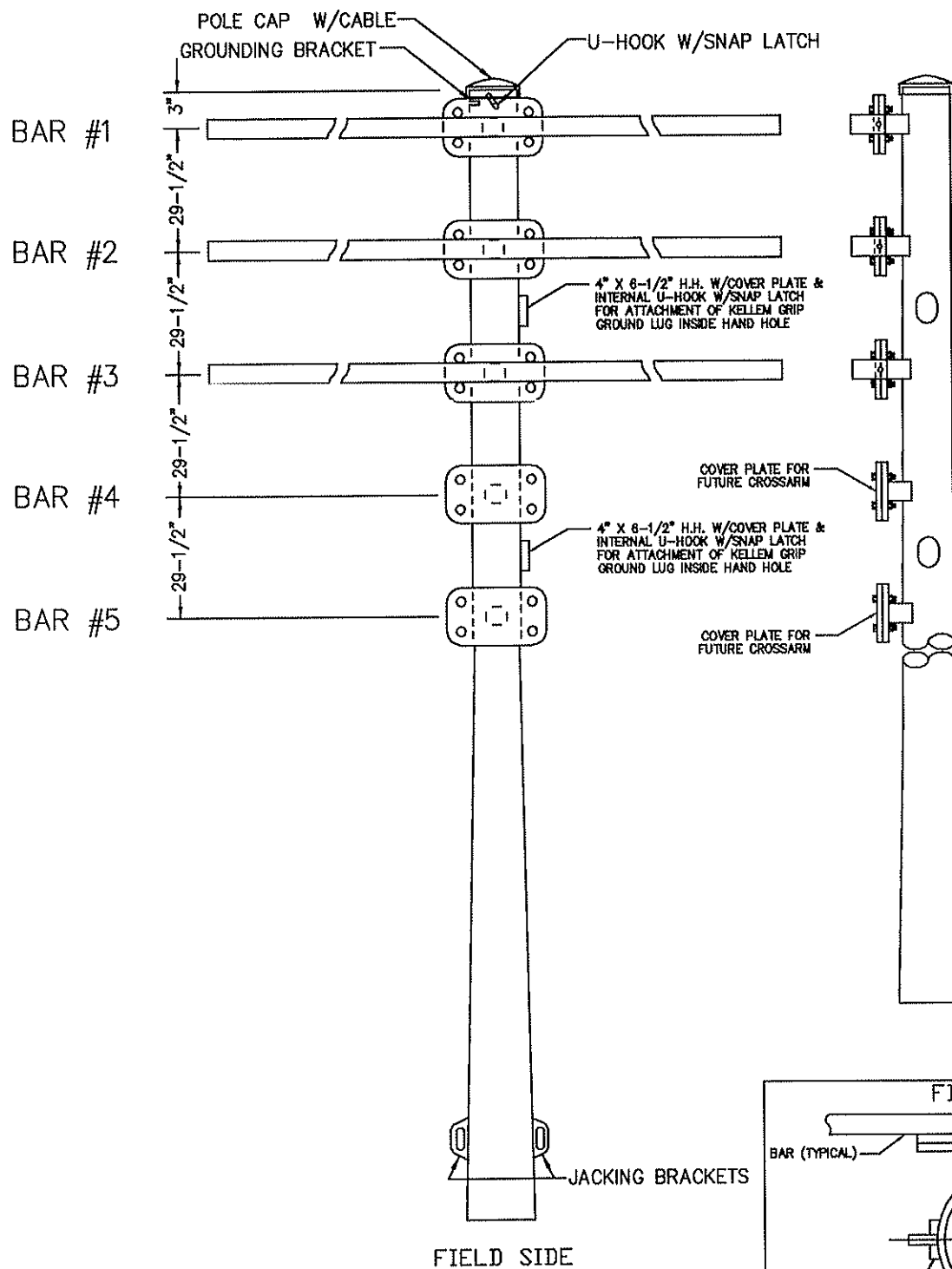
DELTA STATE UNIV BB
CLEVELAND, MS

By: *dcg* Scale: NONE Date: 12-SEP-1995

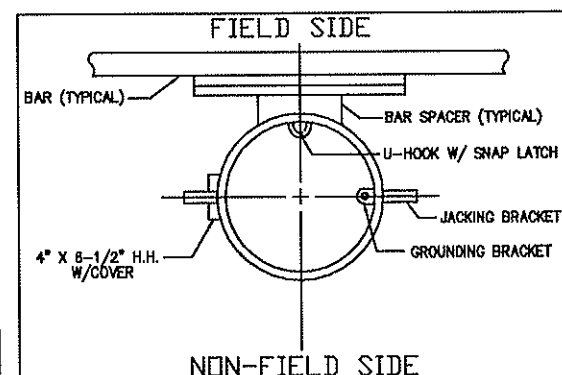
Rep: ALABAMA/MISSISSI Nbr: S-GHA11154F2

Order: 15734 Rev: 0

MUSCO
SPORTS-LIGHTING, INC.



INTERNAL



QTY SPEAKER BRKTS: 0 VERTICAL MTG PLATES: 0 DSA: N

POLE	CAT. #	TUBE	SPCR	CAP	B1	B2	B3	B4	B5	SIDE	H1	H2	H3	MW	BK
B1	LS90B37	3T	8	137	9F	9F	9F	5F	5F	LEFT*	6XL	6L	6L		Y
										NON-FIELD	6XNF	6NF			
										RIGHT**	6XR	6R			
B2	LS90B37	3T	8	137	9F	9F	9F	5F	5F	LEFT*	6XL	6L			Y
										NON-FIELD	6XNF	6NF			
										RIGHT**	6XR	6R	6R		

- * LEFT SIDE = 90 deg. CLOCKWISE FROM FIELD
 ** RIGHT SIDE = 90 deg. COUNTER-CLOCKWISE FROM FIELD

NOTE: 1. ALL POLES HAVE FUTURE BALLAST BOXES ON NON-FIELD SIDE
 2. THE LOWER (2) CROSSARM MOUNTING PLATES ARE FOR FUTURE CROSSARMS AND WILL REQUIRE COVER PLATES.

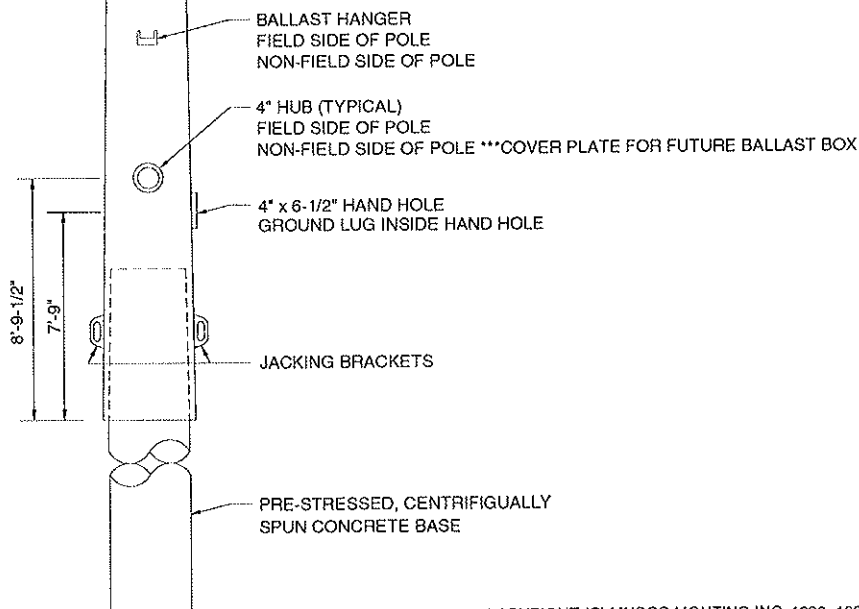
Job: DELTA STATE UNIV BB CLEVELAND, MS			
By: <i>bcg</i>	Scale: NONE	Date: 12-SEP-1995	
Representative: ALABAMA/MISSISSI		Number: S-GHA11154F3	
ORDER: 15734	REVISION: 0		

MUSCO
LIGHTING, INC.

POLE TOP FITTER

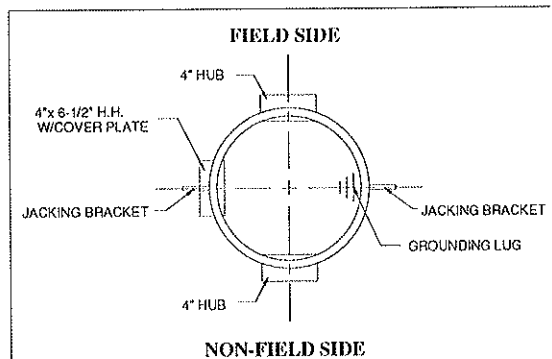
POLE	EPA	MH	BUR DPTH	HOLE DIA	CAT #	DIM 'A'	DIM 'B'
C1	42.0	70'	12'	30"	LS70B15	NA	NA
C2	44.8	70'	12'	30"	LS70B16	NA	NA
D1	42.0	70'	12'	30"	LS70B15	NA	NA
D2	42.0	70'	12'	30"	LS70B15	NA	NA

Design Standard : SBC-N Wind Zone : 80 MPH DSA: N



FIELD SIDE

ORIENTATION DETAIL



DELTA STATE UNIV BB
CLEVELAND, MS

By: *DC* Scale: NONE Date: 12-SEP-1995

Rep: ALABAMA/MISSISSI Nbr: S-GHA11154P1

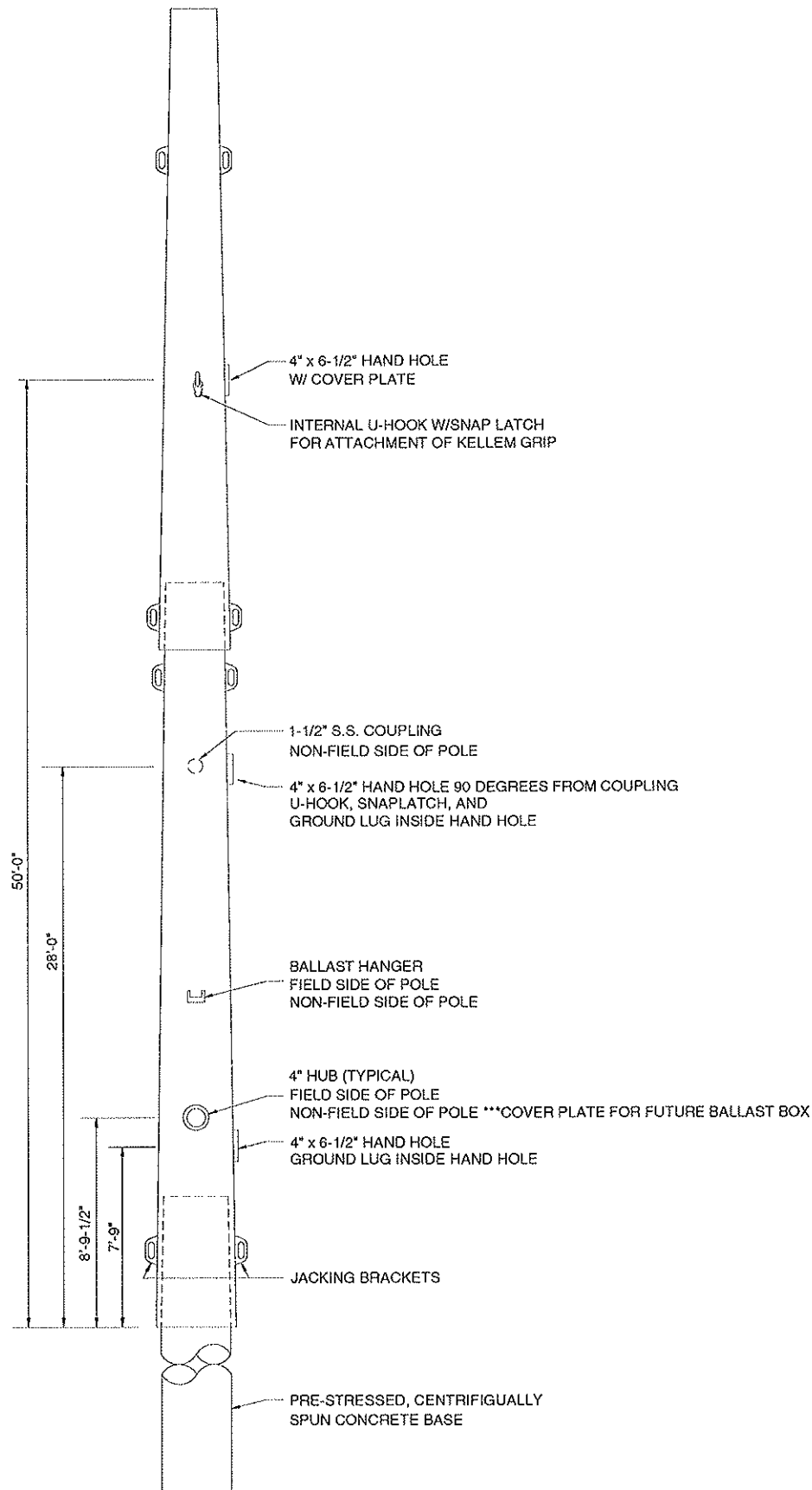
Order: 15734 Rev: 0

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SPORTS-LIGHTING, INC.



POLE	EPA	MH	BUR DPTH	HOLE DIA	CAT #	DIM 'A'	DIM 'B'
A1	30.8	80'	14'	30"	LS80A11	NA	NA
A2	30.8	80'	14'	30"	LS80A11	NA	NA

Design Standard : SBC-N Wind Zone : 80 DSA: N

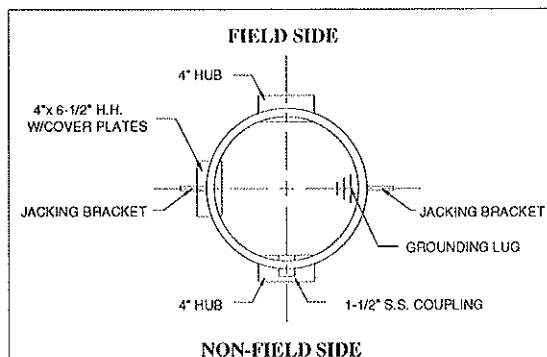


FIELD SIDE

NOTES:

BURIAL DEPTHS ARE FOR 30" DIAMETER HOLES

ORIENTATION DETAIL

DELTA STATE UNIV BB
CLEVELAND, MSBy: *DCS/FIL* Scale: NONE Date: 12-SEP-1995

Rep: ALABAMA/MISSISSI Nbr: S-GHA11154P2

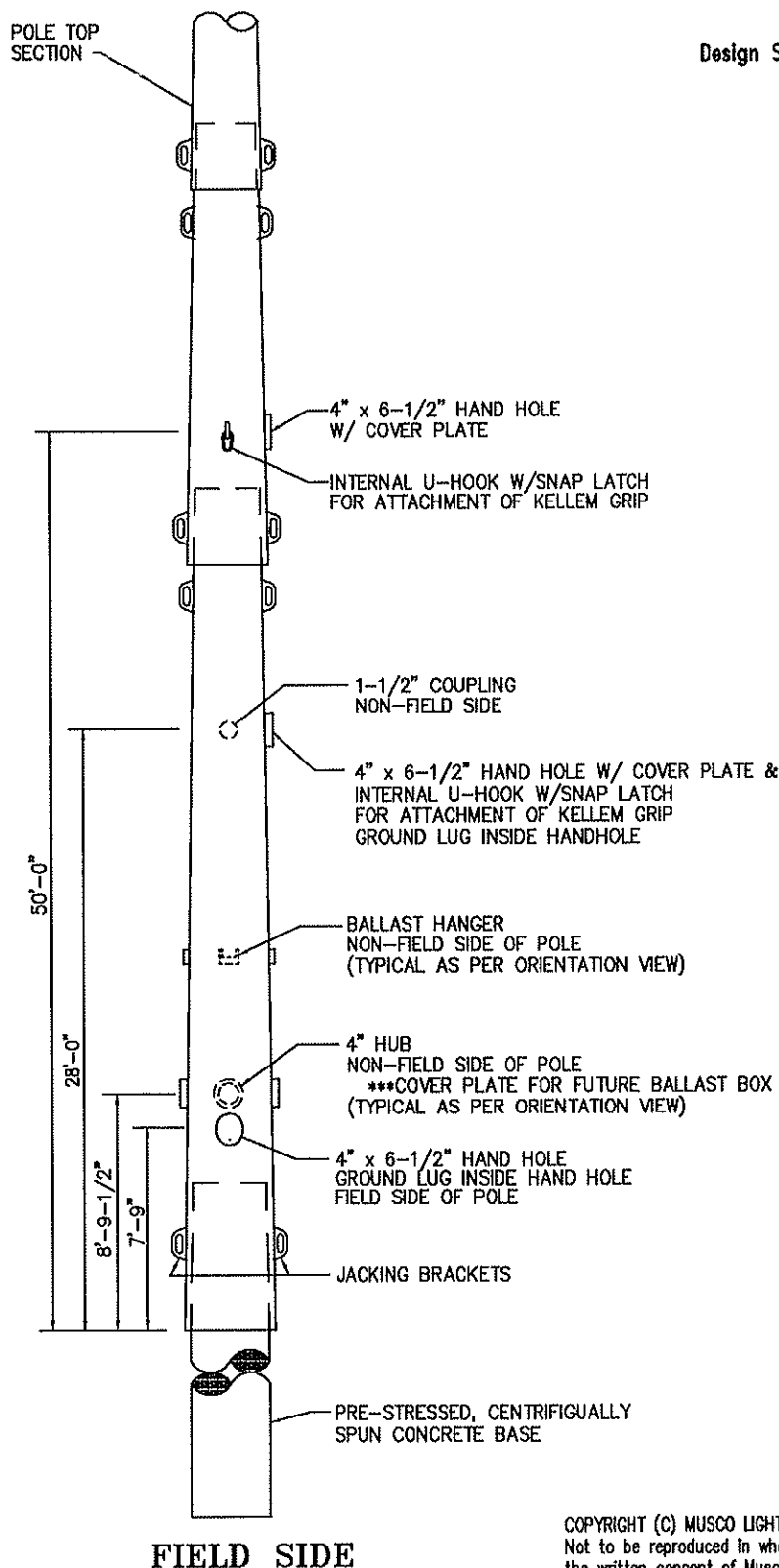
Order: 15734 Rev: 0

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POLE	EPA	MH	BUR DPTH	CATALOG #
B1	103.6	90'	18'	LS90B37
B2	103.6	90'	18'	LS90B37

Design Standard: SBC-N

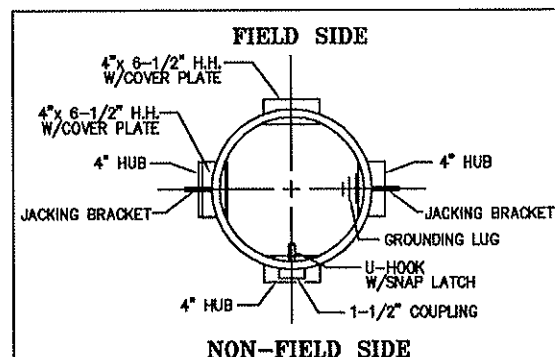
Wind Zone: 80 MPH



NOTES:

BURIAL DEPTHS ARE FOR 30" DIAMETER HOLES

ORIENTATION DETAIL

Job: DELTA STATE UNIV BB
CLEVELAND, MS

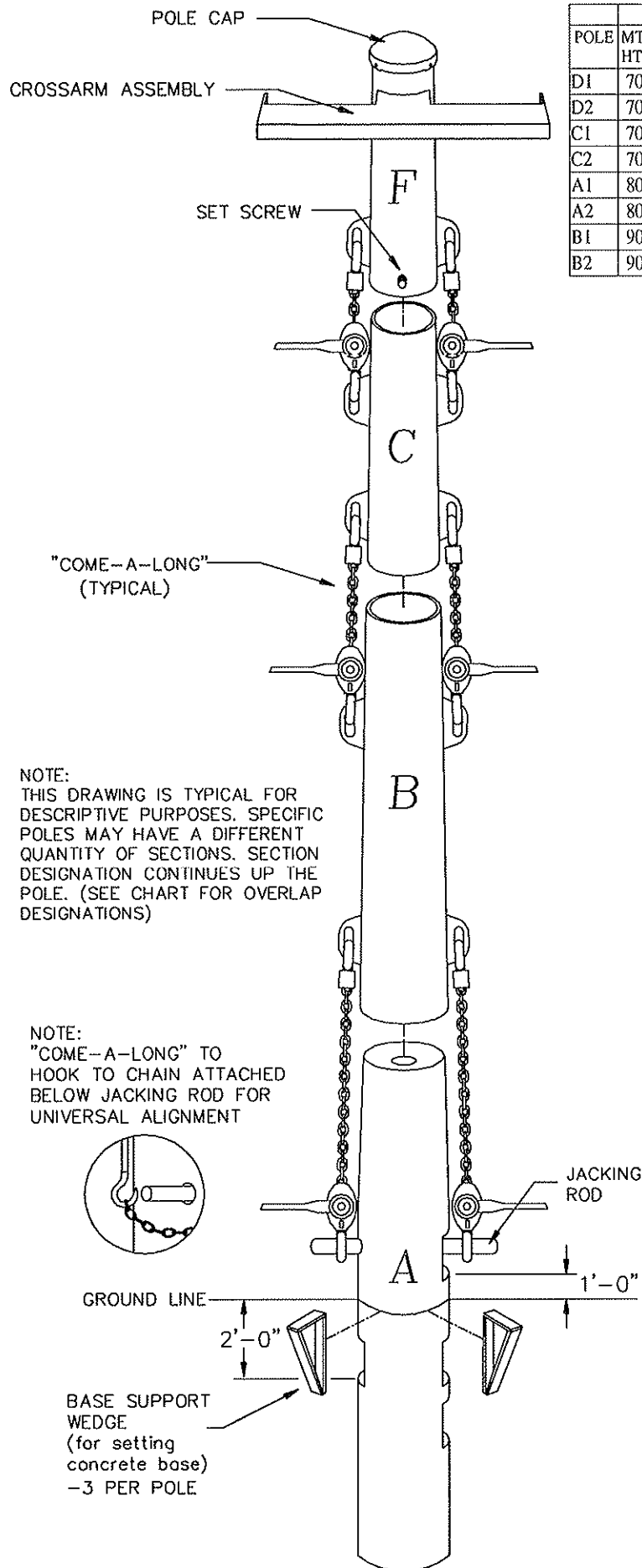
By: DCG/Fl Scale: NONE Date: 12-SEP-1995

Rep: ALABAMA/MISSISSI Number: S-GHA11154P3

Order #: 15734 Rev: 0

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POLE	MTG HT	NBR FXT	CAT #	WEIGHT-lbs		BURIAL				OVERLAP			
				CONC BASE	STEEL SHAFT	HOLE DIA	HOLE DPTH	BUR DPTH	BACK FILL	B-C	C-D	D-E	F
D1	70'	11	LSS70B11	2670	1260	30"	12.0'	12.0'	1.8yd	24"	NA	NA	13"
D2	70'	11	LSS70B11	2670	1260	30"	12.0'	12.0'	1.8yd	24"	NA	NA	13"
C1	70'	12	LSS70B12	2670	1260	30"	12.0'	12.0'	1.8yd	24"	NA	NA	13"
C2	70'	13	LSS70B13	2670	1260	30"	12.0'	12.0'	1.8yd	24"	NA	NA	13"
A1	80'	8	LSS80A8	3710	1700	30"	14.0'	14.0'	2.0yd	24"	NA	NA	15"
A2	80'	8	LSS80A8	3710	1700	30"	14.0'	14.0'	2.0yd	24"	NA	NA	15"
B1	90'	27	LSS90B27	7590	3566	30"	18.0'	18.0'	1.8yd	36"	30"	NA	NA
B2	90'	27	LSS90B27	7590	3566	30"	18.0'	18.0'	1.8yd	36"	30"	NA	NA

Note: Design standard SBC-N wind zone 80 mph

Backfill - concrete needed for backfill is 3000 PSI minimum strength

Overlap dimensions may vary +/-6" based on:

- 1 - Steel pole tolerances,
- 2 - Concrete tolerances or
- 3 - Galvanizing thicknesses.

NOTES:

- 1) Before assembling, visually inspect poles to confirm that nothing will impede the slip fit.
- 2) To be assured of meeting slip fit dimensions, (2) 1-1/2 ton "come-a-longs" should be used to firmly seat the sections together.
- 3) "Come-a-longs" not supplied by Musco unless ordered for the project.
- 4) Steel pole bottom should nominally rest 7" from the top handhole of the concrete base. (Do not include the handhole indentation as being part of the handhole.)
- 5) CAUTION : Care must be taken when mating steel to steel sections to confirm linear alignment and coupling alignment.

CLEVELAND, MS

DELTA STATE UNIV BB

By: AHA

Scale: NONE

Date: 13-SEP-1995

Rep: ALABAMA/MISSISS

Nbr: S-GHA11154J

Order: 15734

Rev:

MUSCO
SPORTS-LIGHTING, INC.

CLEVELAND, MS DELTA STATE UNIV BASEBALL 330/400/330 BASEBALL W/70' & 80' M.H. COMPUTER LIGHT SCAN - INITIAL FOOTCANDLES

Fixture Type: SC-2 MZ
Lamp Type: 1500 watt Metal Halide MZ
Lumens: 155000
File Number: 11154A
Date: 5-SEP-95



GUARANTEED PERFORMANCE

HORIZONTAL FOOTCANDLES

Target Points:	Outfield	Infield
Average:	113	25
Maximum:	65.56	89.71
Minimum:	82.66	103.76
Avg/Min:	43.47	68.67
Max/Min:	1.508	1.306
Number of Luminaires:	1.902	1.511
* KW Consumption:	117	187.20
Average Tilt Factor:	0.955	1.000
** Maintenance Factor:	x	0.955
*** Light Loss Factor:		

*Refer to amperage draw for electrical sizing

**Maintenance factor = ambient temp. factor
X voltage factor X ballast factor X lamp
lumen depreciation X luminaire dirt
depreciation(per IES Manual RP-6-88,p.92)

***Light Loss Factor(LLF)=average tilt factor
X maintenance factor

NOTE: Light level averages and uniformities
are guaranteed by MUSCO. However,
individual location measurements may vary
from computer predictions

INSTALLATION REQUIREMENTS:

Results assume +3% nominal voltage at load
side of ballast box and poles located within
3' of design locations

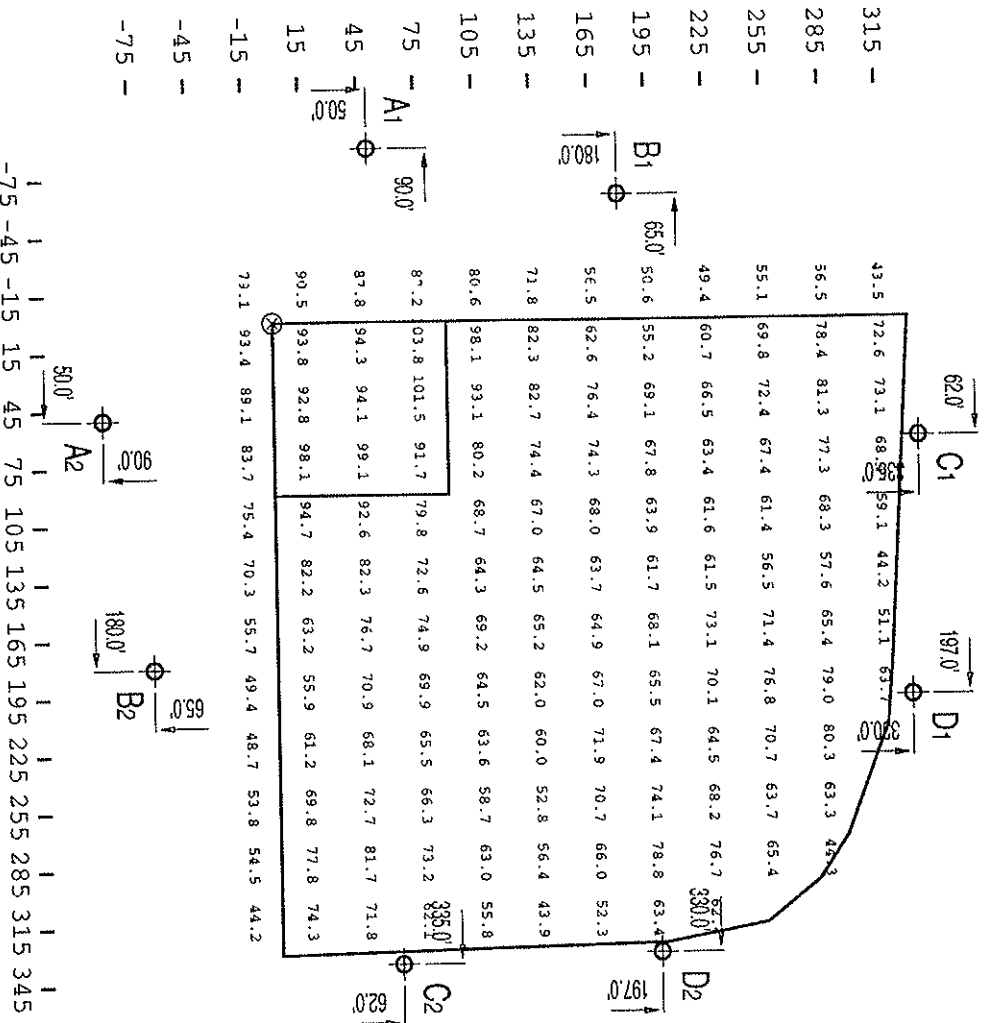
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⊕ = Pole Location

SCALE IN FEET



Pole location dimensions are relative to 3,0 reference point ⊗.



CLEVELAND MS DELTA STATE UNIV BASEBALL
330/400/330 BASEBALL W/70' & 80' M.H.
COMPUTER LIGHT SCAN - MAINTAINED FOOT CANDLES

Fixture Type: SC-2 MZ
Lamp Type: 1500 watt Metal Halide MZ
Lumens: 155000
File Number: 111544
Date: 5-SEP-95



GUARANTEED PERFORMANCE

HORIZONTAL FOOTCANDLES

	Outfield	Infield
Target Points:	113	25
Average:	52.44	71.77
Maximum:	66.13	83.00
Minimum:	34.78	54.94
Avg/Min:	1.508	1.306
Max/Min:	1.902	1.511
Number of Luminaires:	117	117
* KW Consumption:	187.20	187.20
Average Tilt Factor:	0.955	0.800
** Maintenance Factor:	x	0.764
***Light Loss Factor:		

*Refer to ampereage draw for electrical sizing

**Maintenance factor = ambient temp. factor
X voltage factor X ballast factor X lamp
lumen depreciation X luminaire dirt
depreciation (per IES Manual RP-6-88, p. 92)

***Light Loss Factor (LLF) = average tilt factor
X maintenance factor

NOTE: Light level averages and uniformities
are guaranteed by MUSCO. However,
individual location measurements may vary
from computer predictions

INSTALLATION REQUIREMENTS:
Results assume $\pm 3\%$ nominal voltage at load
side of ballast box and poles located within
3' of design locations

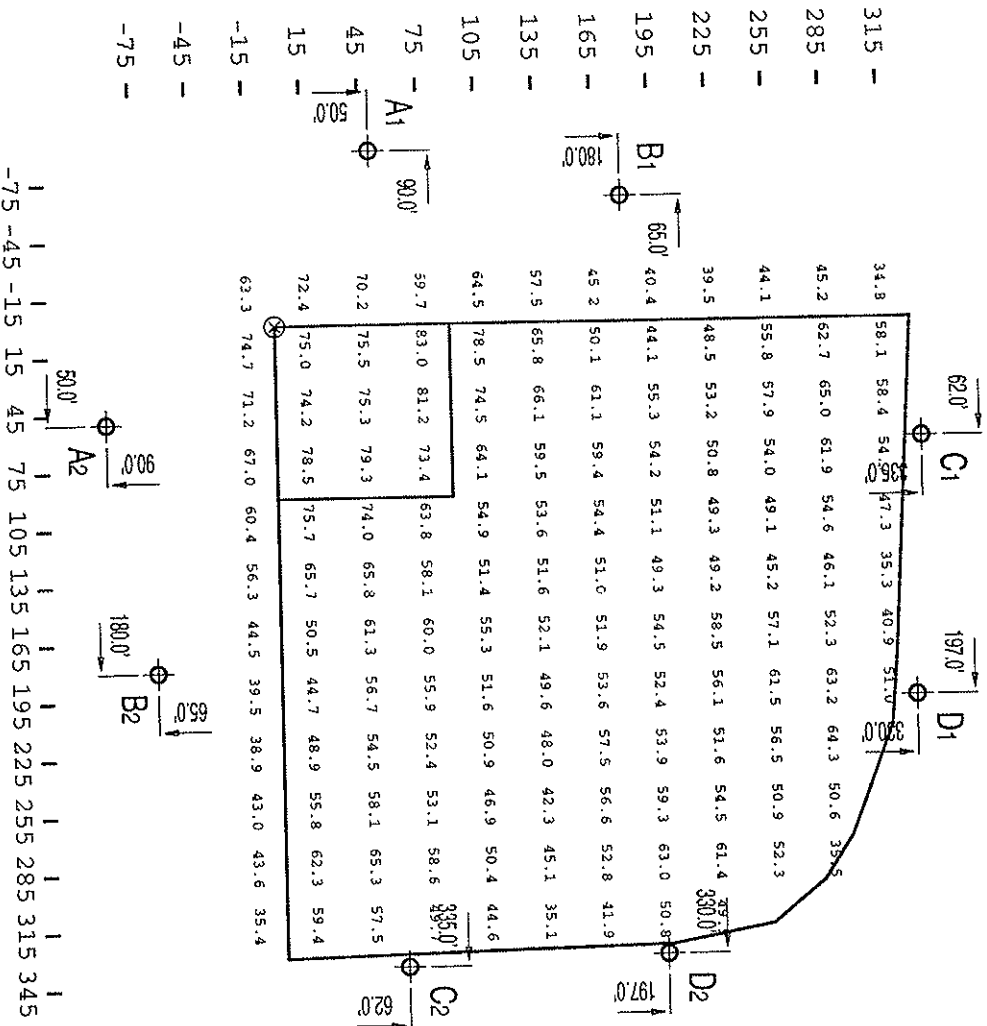
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⊕ = Pole Location

SCALE IN FEET



Pole location dimensions are relative to 0,0 reference point ⊗.



CLEVELAND, MS DELTA STATE UNIV BASEBALL
330/400/330 BASEBALL W/70° & 80° M.H.
COMPUTER LIGHT SCAN - INITIAL FOOTCANDLES

Fixture Type: SC-2 MZ
Lamp Type: 1500 watt Metal Halide MZ
Lumens: 155000
File Number: 11154A
Date: 5-SEP-95



GUARANTEED PERFORMANCE

HORIZONTAL FOOTCANDLES

Target Points:	6
Average:	35.65
Maximum:	48.92
Minimum:	24.71
Avg/Min:	1.443
Max/Min:	1.980
Number of Luminaires:	117
KW Consumption:	187.20
Average Tilt Factor:	0.936
Maintenance Factor:	1.000
Light Loss Factor:	0.936

*Refer to amperage draw for electrical sizing

**Maintenance factor = ambient temp. factor
X voltage factor X ballast factor X lamp
lumen depreciation X luminaire dirt
depreciation(per IES Manual RP-6-88,p.92)

***Light Loss Factor(LLF)=average tilt factor
X maintenance factor

NOTE: Light level averages and uniformities
are guaranteed by MUSCO. However,
individual location measurements may vary
from computer predictions

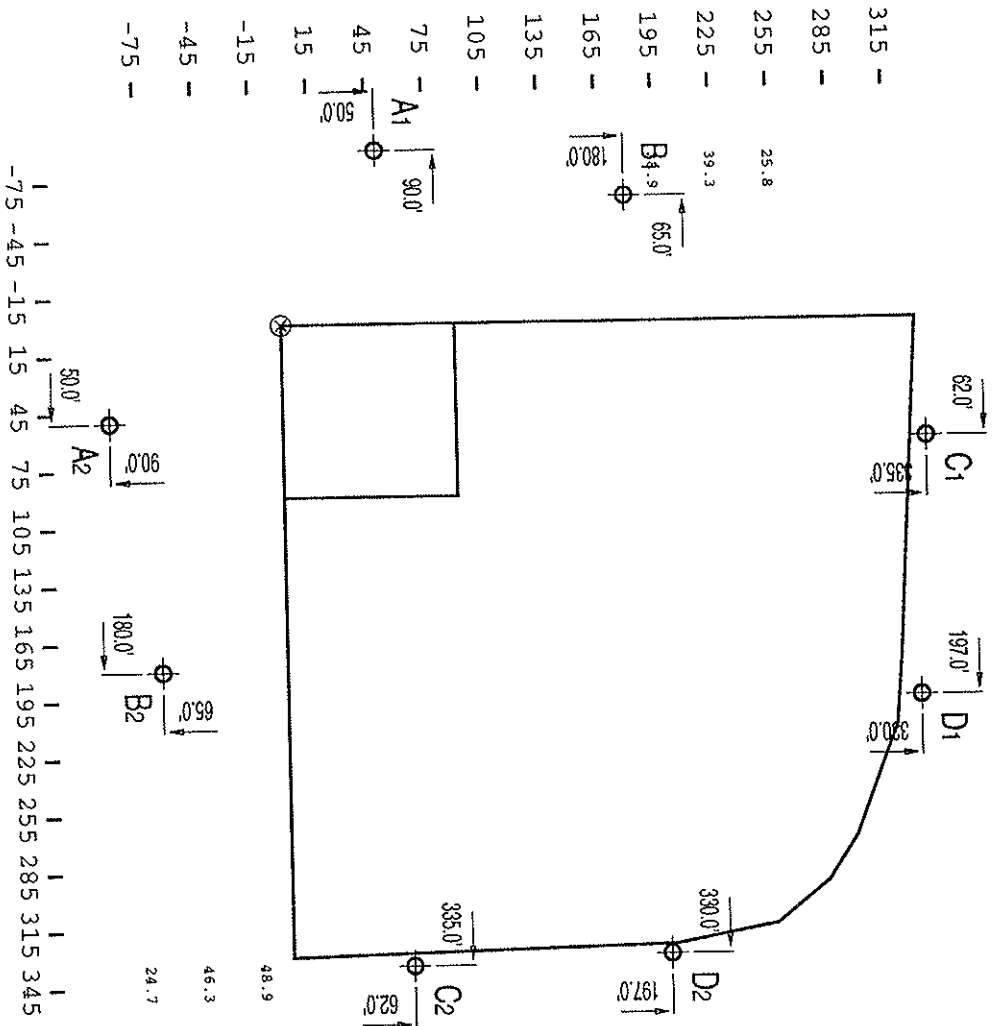
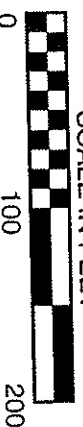
INSTALLATION REQUIREMENTS:

Results assume +3% nominal voltage at load
side of ballast box and poles located within
3' of design locations

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⊕ = Pole Location

SCALE IN FEET



Pole location dimensions are relative to C,0 reference point ⊕.

CLEVELAND MS DELTA STATE UNIV BASEBALL
330/400/330 BASEBALL W/70' & 80' M.H.
COMPUTER LIGHT SCAN - MAINTAINED FOOTCANDLES

Fixture Type: SC-2 MZ
Lamp Type: 1500 watt Metal Halide MZ
Lumens: 155000
File Number: 11154A
Date: 5-SEP-95



GUARANTEED PERFORMANCE

HORIZONTAL FOOTCANDLES

Target Points:	6
Average:	28.52
Maximum:	39.13
Minimum:	19.77
Avg/Min:	1.443
Max/Min:	1.980
Number of Luminaires:	117
KW Consumption:	187.20
Average Tilt Factor:	0.936
** Maintenance Factor:	x 0.800
*** Light Loss Factor:	0.749

*Refer to amperage draw for electrical sizing

**Maintenance factor = ambient temp. factor
X voltage factor X ballast factor X lamp
lumen depreciation X luminaire dirt
depreciation(per IES Manual RP-6-88,p.92)

***Light Loss Factor(LLF)=average tilt factor
X maintenance factor

NOTE: Light level averages and uniformities
are guaranteed by MUSCO. However,
individual location measurements may vary
from computer predictions

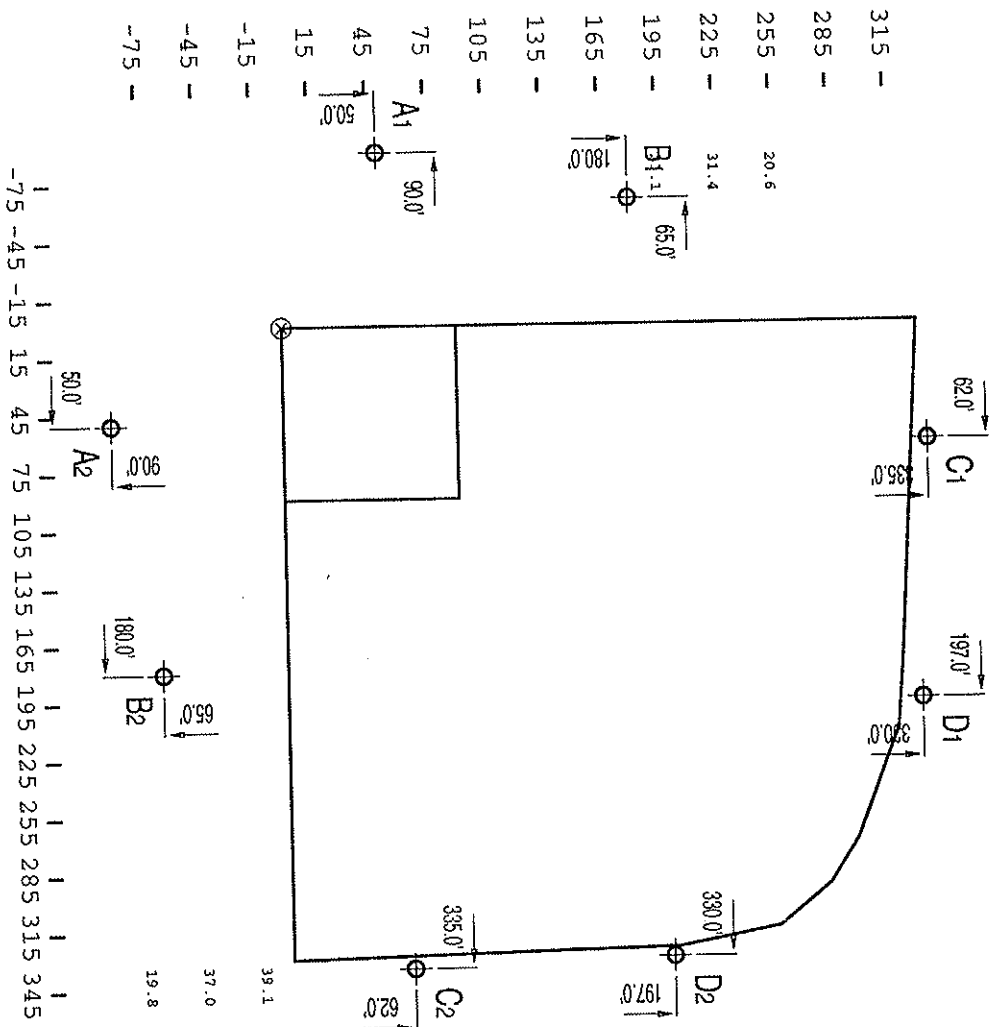
INSTALLATION REQUIREMENTS:

Results assume +3% nominal voltage at load
side of ballast box and poles located within
3' of design locations

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⊕ = Pole Location

SCALE IN FEET



Pole location dimensions are relative to 0,0 reference point ⊕.

Revision Level : 3
 Order 08/07/95 Order# 15734 All PROFILE information should be verified with final order information
 Project# GH11154 Project DELTA STATE UNIV BB Status 7
 TST ALABAMA/MISSISSI City CLEVELAND ST/Prov MS Country USA

PRODUCTION

SOLD TO SCOTT ELECTRIC
 SCHEDULED 09/25/95 PRODUCED SHIPPED DELIVER NLT
 VERSION# 9
 POLE TYPE LS STD/REM R
 PLATFORMS NOT Required FUSING Required
 WARRANTY 7 years parts; 2 years labor FINISH G
 LAMPS Required
 OSA APPROVAL? N

FIELD INFORMATION:

FIELD	SP	N/R	SC	TFED	WATT	MWATT	LAMP	VOLT	PHASE	SCAN
1 DeltaStBB	BB	N	2		15		MZ	480	3	11154A

SPORTSCLUSTER CONFIGURATION:

FLD	POL	MH	FIX	2P	3P	4P	5P	6P	1A	1E	3E	5E	MTG	CFG	DWG
1	A1	80	8				2						F	65RFL	
1	A2	80	8				2						F	65RFL	
1	C1	70	12					2					F	663RFL	
1	C2	70	13		1	1		1					F	664RFL	
1	D1	70	11				1	1					F	87RFL	
1	D2	70	11				1	1					F	87RFL	
1	B1	80	27			1		4					F	99955RFL	
1	B2	80	27			1		4					F	99955RFL	
TOT	8		117		3	5	2	13							

POLE SPECIFICATIONS: WIND = 80 GUST = STANDARD = SBC-N

POL	TYP	FIN	MH	LEN	FIX	EPA	CLASS	PLAT	STEP	CPLG	HH	TOP-D	BOT-D
A1	LS	G	80	80	8	30.8	80A	0		0	0	0.0	0.0
A2	LS	G	80	80	8	30.8	80A	0		0	0	0.0	0.0
B1	LS	G	90	90	27	103.6	90B	0		0	0	0.0	0.0
B2	LS	G	90	90	27	103.6	90B	0		0	0	0.0	0.0
C1	LS	G	70	70	12	42.0	70B	0		0	0	0.0	0.0
C2	LS	G	70	70	13	44.8	70B	0		0	0	0.0	0.0
D1	LS	G	70	70	11	42.0	70B	0		0	0	0.0	0.0
D2	LS	G	70	70	11	42.0	70B	0		0	0	0.0	0.0

BROKERAGE REQUIRED:

POLES:
 ELECTRIC:

Revision Level : 3
Order 08/07/95 Order# 15734 All PROFILE information should be verified with final order information
Project# GH11154 Project DELTA STATE UNIV BB Status 7
TST ALABAMA/MISSISSI City CLEVELAND ST/Prov MS Country USA

===== PRODUCTION =====

SOLD TO SCOTT ELECTRIC
SCHEDULED 09/25/95 PRODUCED SHIPPED DELIVER NLT
VERSION# 9
POLE TYPE LS STD/REM R FINISH G
PLATFORMS NOT Required FUSING Required LAMPS Required
WARRANTY 7 years parts; 2 years labor OSA APPROVAL? N

=====

BROKERAGE REQUIRED:

MISC: _____

=====

PRODUCTION NOTES:

No Production Info comments.

ORDER-POLE COUPLINGS/HANDHOLE
QUANTITY 4 (1 per pole on poles A1,B1,B2,A2)
SIZE Standard
ELEVATION: At or about 30 feet
ORIENTATION: NON-field side

08/07/95 HOLSON

ORDER-FIXTURE FUTURE FIXTURES
OF TOTAL FIXTURES(PHASE 1 AND FUTURE) 117 + 40 = 157
OF PHASE 1 FIXTURES 117
OF FUTURE FIXTURES 157
WHERE FUTURE FIXTURES WILL BE AIMED? To the field
WILL FUTURE FIXTURES BE ON SAME CIRCUIT Yes

08/07/95 HOLSON

Detail is as follows:

Pole	Now	Future
----	-----	-----
A1-A2	8	11
B1-B2	27	37
C1	12	15
C2	13	16
D1	11	15
D2	11	15

ORDER-FIELD POLE LOCATIONS
Pole locations are per the dwg attached to the file cover.

08/07/95 HOLSON

ORDER-FIXTURE SPECIAL ENCLOSURE CONFIG

09/08/95 JKLEIN

09/13/95 Printed By AHATFIELD

Revision Level : 3
 Order 08/07/95 Order# 15734 All PROFILE information should be verified with final order information
 Project# GH11154 Project DELTA STATE UNIV BB Status 7
 TST ALABAMA/MISSISSI City CLEVELAND ST/Prov MS Country USA

PRODUCTION

SOLD TO SCOTT ELECTRIC
 SCHEDULED 09/25/95 PRODUCED
 VERSION# 9
 POLE TYPE LS
 PLATFORMS NOT Required
 WARRANTY 7 years parts; 2 years labor

SHIPPED

DELIVER NLT

STD/REM R
 FUSING Required

FINISH G
 LAMPS Required
 OSA APPROVAL? N

PRODUCTION NOTES:

Enclosure configurations for the A1, A2, C1, C2, D1, & D2 poles are as follows:

POLE:	LOCATION:	LOCATION:
*****	*****	*****
-	FIELD SIDE /	NON-FIELD SIDE
*****	(PROVIDING ENC)	(FUT. FIXTS)
'A1' & 'A2' /	4P-4PX /	4PX(3)
'C1' /	6P-6PX /	4PX(3)
'C2' /	6P-4P-4PX(3) /	4PX(3)
'D1' & 'D2' /	6P-6PX(5) /	4PX

[Provide hub cover]

%%%%%%%%%%
 We are providing 27 fixtures for poles B1 & B2 at this time and may be upgrading to 37 fixtures per pole in future. Thus the configuration of the enclosures is as follows, including these additional 10 fixtures per pole:

POLE:	LOCATION:	LOCATION:	LOCATION:
*****	*****	*****	*****
'B1' 90 DEG NF RIGHT /	NON-FIELD /	90 DEG NF LEFT	
'B2' 90 DEG NF LEFT /	NON-FIELD /	90 DEG NF RIGHT	
*****	*****	*****	*****
(PROVIDING ENC.) /	(FUT. FIXTS) /	(PROVIDING ENC.)	
*****	*****	*****	*****
6P-6PX(3) /	6P(5)-6PX(5) /	6P-6PX	
[LG BREAKER IN 6PX] /	[PROVIDE HUB COVER] /		

Poles 'B1' and 'B2' are bolt-on-bars.

JFK
 12SEP95
 09-08-95 Mailed to CWEBER, NMCCLEARY

09/13/95 Printed By AHATFIELD

Revision Level : 3
Order 08/07/95 Order# 15734 All PROFILE information should be verified with final order information
Project# GH11154 Project DELTA STATE UNIV BB Status 7
TST ALABAMA/MISSISSI City CLEVELAND ST/Prov MS Country USA

===== PRODUCTION =====

SOLD TO SCOTT ELECTRIC		
SCHEDULED 09/25/95	PRODUCED	SHIPPED
VERSION# 9		DELIVER NLT
POLE TYPE LS	STD/REM R	FINISH G
PLATFORMS NOT Required	FUSING Required	LAMPS Required
WARRANTY 7 years parts; 2 years labor		OSA APPROVAL? N

=====

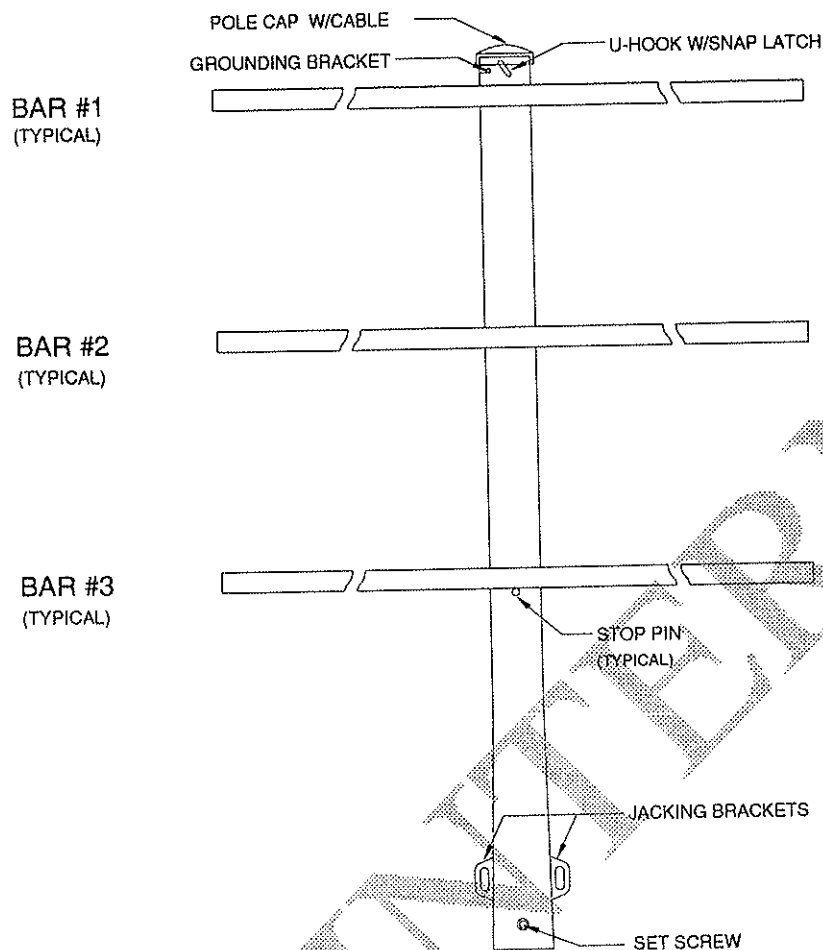
PRODUCTION NOTES:

CC:

=====

WARRANTY NOTES:

No Warranty comments.



REVISION LEVEL 1: 13-SEP-95
CORRECTED FITTER CONFIGURATION AS PER PRODUCTION SUMMARY. DAC

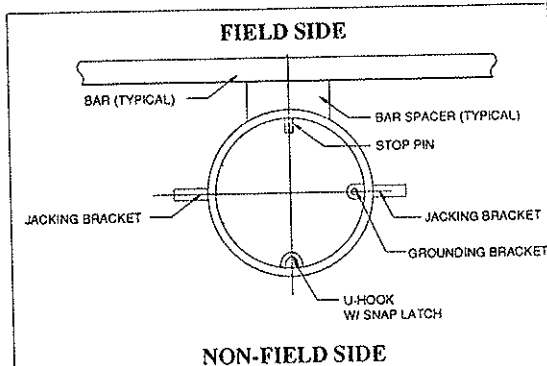
NOTE: ALL POLES HAVE FUTURE BALLAST BOXES ON NON-FIELD SIDE

Qty Speaker Brkts: 0 Vertical Mtg Plates: N DSA: N

POLE	CAT #	TUBE	SPCR	CAP	STEPS	B1	B2	B3	B4	B5	H1	H2	H3	MW	BK
C1	LS70B15	1B-4.75/56	4	142	0	6F	6F	3F			6X	6			
											4XR	Future			
C2	LS70B16	1B-4.75/56	4	142	0	6F	6F	4F			4X	4	6		
											4XR	Future			
D1	LS70B15	1A-4.75/56	4	142	0	8F	7F				6X	6			
											4XR	Future			
D2	LS70B15	1A-4.75/56	4	142	0	8F	7F				6X	6			
											4XR	Future			

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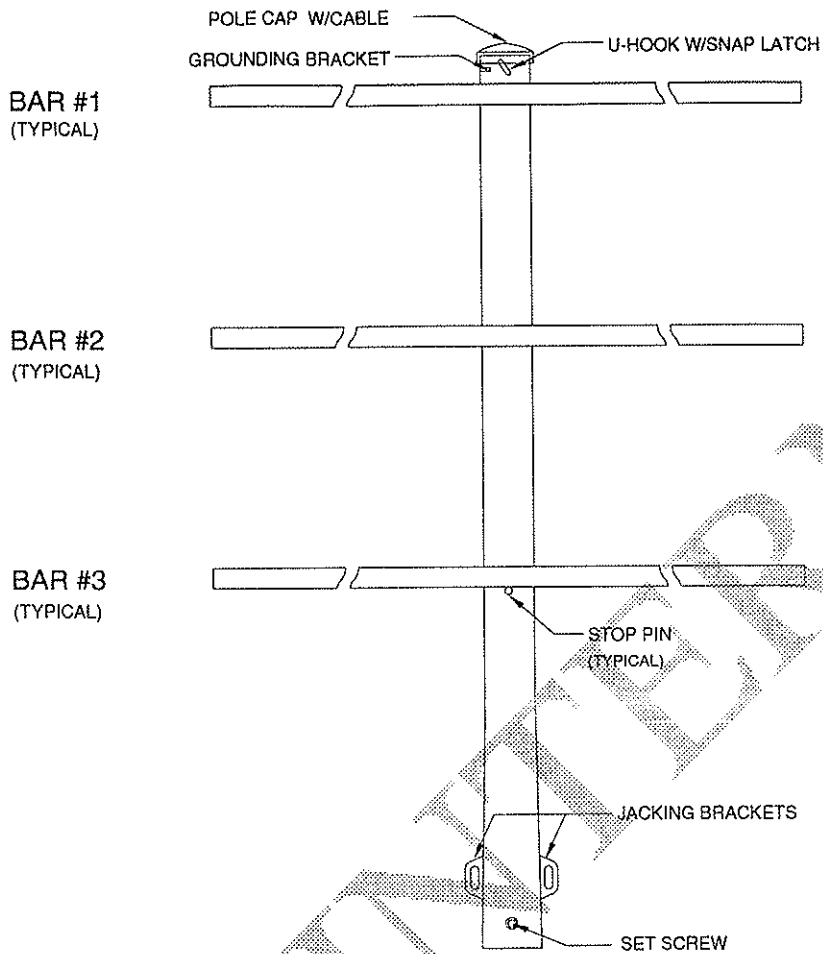
ORIENTATION DETAIL



DELTA STATE UNIV BB
CLEVELAND, MS

By: DCF	Scale: NONE	Date: 12-SEP-1995
Rep: ALABAMA/MISSISSI	Nbr: S-GHA11154F1	
Order: 15734	Rev: 1	

MUSCO
SPORTS-LIGHTING, INC.



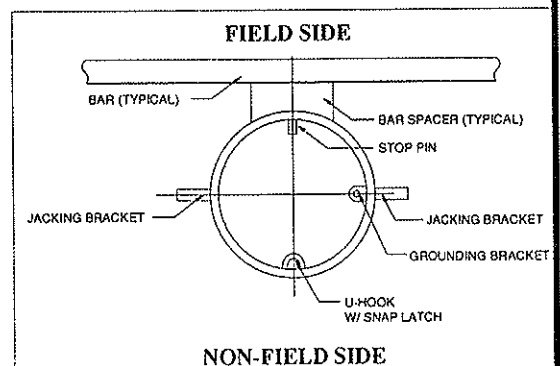
NOTE: ALL POLES HAVE FUTURE BALLAST BOXES ON NON-FIELD SIDE.

Qty Speaker Brkts: 0 Vertical Mtg Plates: N DSA: N

POLE	CAT #	TUBE	SPCR	CAP	STEPS	B1	B2	B3	B4	B5	H1	H2	H3	MW	BK
A1	LS80A11	2A-5.5/58	5	133	0	6F	5F				4X	4			
A2	LS80A11	2A-5.5/58	5	133	0	6F	5F				4X	4			
											4X	4			

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ORIENTATION DETAIL



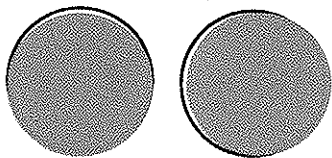
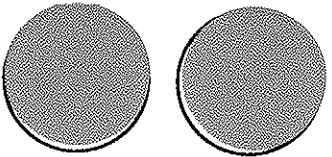
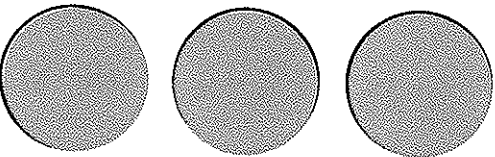
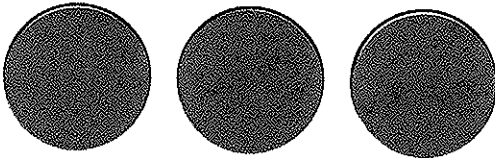

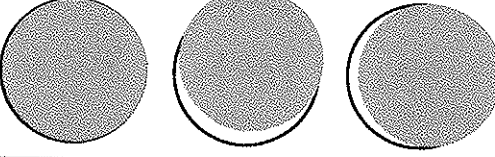
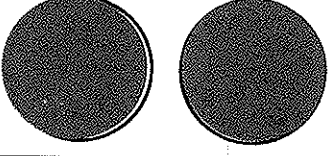
DELTA STATE UNIV BB
CLEVELAND, MS


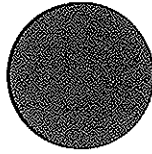
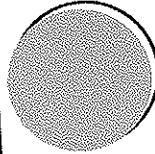
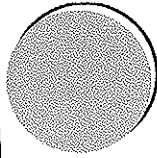
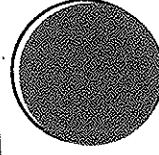
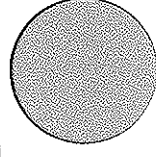
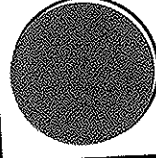
By: *DCG/fil* Scale: NONE Date: 12-SEP-1995

Rep: ALABAMA/MISSISSI Nbr: S-GHA11154F2

Order: 15734 Rev: 0

MUSCO
SPORTS-LIGHTING, INC.

Pole	Harness #	
A1 8	WH-78/9	
A2 8	WH-78/9	
B1 27	WH-88/7	
	WH-88/13	
B2 27	WH-88/13 LLB MUSCO	
	WH-88/7 LLB MUSCO	
C1 12	WH-64/13 LLB MUSCO	

Pole	Harness #	
C2 13	WH-64/9 103-106 LLB MUSCO	
	WH-64/13 94, 95 + 99-102 LLB MUSCO	
	WH-64/7 107-109 LLB MUSCO	
D1 11	WH-64/11 73 + 75-78 LLB MUSCO	
	WH-64/13 64, 66, 68, 69, 71 + 72 LLB MUSCO	
D2 11	WH-64/11 88, 89 + 91-93 LLB MUSCO	
	WH-64/13 77, 80, 82, 83, 85, 87 LLB MUSCO	

Order: 15734 - Proj: GHA11154
DELTA STATE UNIV BB

HARNESSES

Pole	Harness #	
	Harness # Summary	Count
	WH-64/11	2
	WH-64/13	5
	WH-64/7	1
	WH-64/9	1
	WH-78/9	4
	WH-88/13	6
	WH-88/7	6

Checked by:

DELTA STATE UNIV BB CLEVELAND, MS COMPUTER LIGHT SCAN - INITIAL FOOTCANDLES

Fixture Type: SC-2 MZ
Lamp Type: 1500 Watt Metal Halide MZ
Lumens: 155000
File Number: 11154B
Date: 30-MAR-95
Project: GH41154
By: BBERRY



GUARANTEED PERFORMANCE

HORIZONTAL FOOTCANDLES

Outfield
Average: 88.39
Max/Min: 2.239
Number of Poles: 8
Number of Luminaires: 146
KW Consumption: 233.60
Maintenance Factor: 1.0

Field Dimensions: ☐ OK ☐ MODIFIED
Light Levels: ☐ ☐ ☐ ☐
Pole Locations: ☐ ☐ ☐ ☐

Voltage: _____

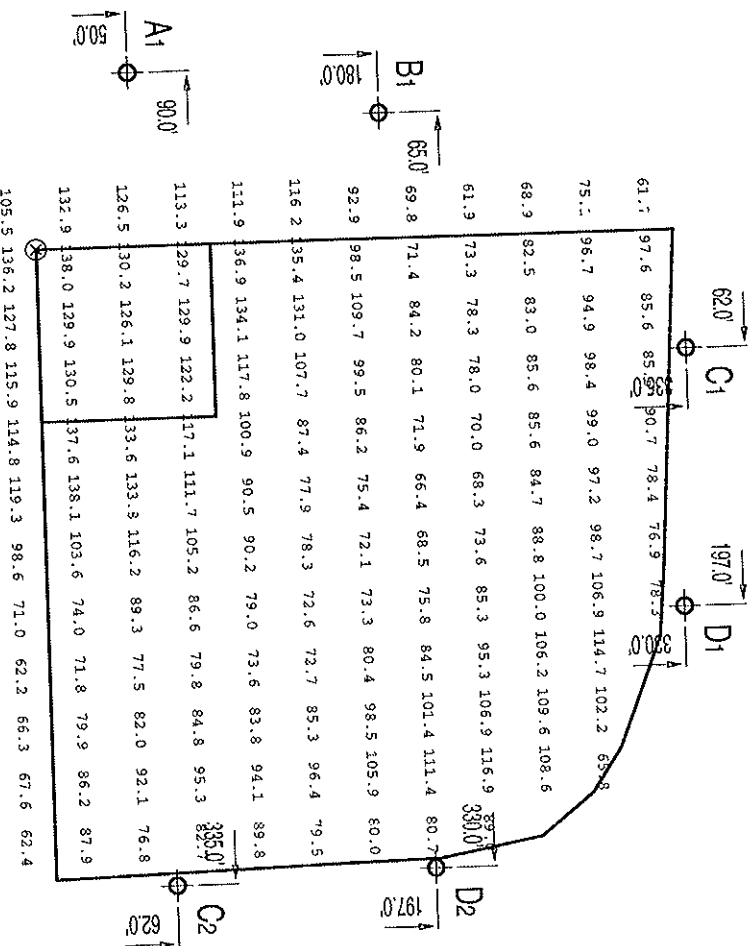
POLE ID	MTG HT	FIXTURES
A1	80	11
B1	80	37
C1	70	15
D1	70	15
D2	70	15
C2	70	16
B2	80	37
A2	80	11

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⊕ = Pole Location

SCALE IN FEET



Pole location dimensions are relative to 0,0 reference point ⊗.

DELTA STATE UNIV BB CLEVELAND, MS COMPUTER LIGHT SCAN - INITIAL FOOTCANDLES

Fixture Type: SC-2 MZ
 Lamp Type: 1500 Watt Metal Halide MZ
 Lumens: 155000
 File Number: 11154B
 Date: 30-MAR-95
 Project: GH411154
 By: BBERRY



GUARANTEED PERFORMANCE

HORIZONTAL FOOTCANDLES

Average: 37.07
 Max/Min: 1.621
 Number of Poles: 8
 Number of Luminares: 11
 KW Consumption: 17.60
 Maintenance Factor: 1.0

Field Dimensions: ☐ OK ☐ MODIFIED
 Light Levels: ☐ ☐ ☐

Pole Locations: ☐ ☐ ☐

Voltage: _____

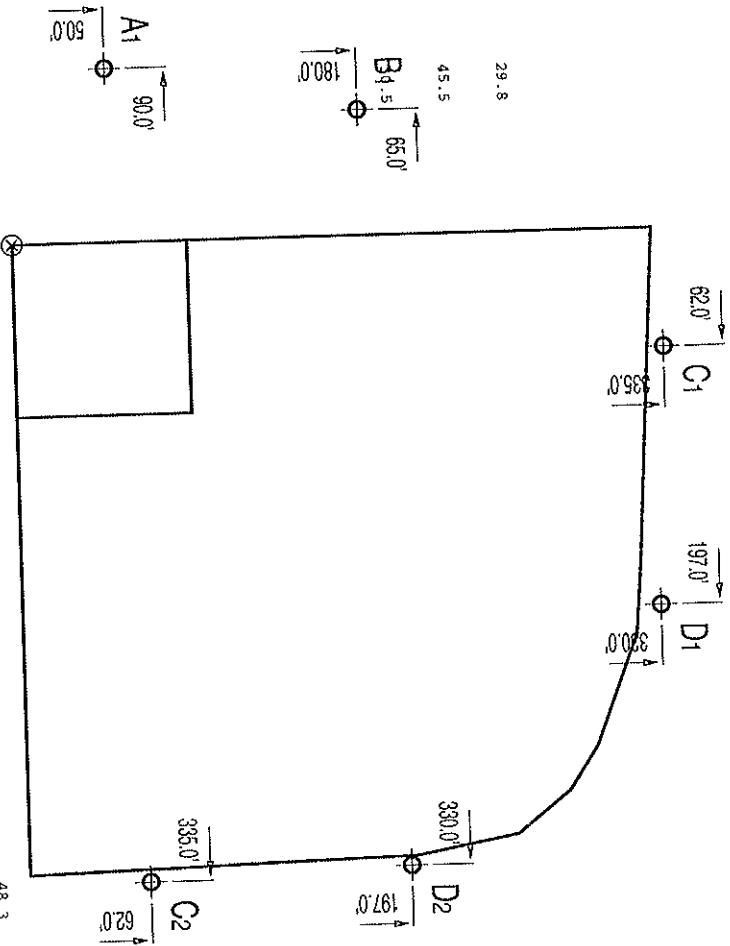
POLE ID	MTG HT	FIXTURES
A1	80	11
B1	80	37
C1	70	15
D1	70	15
D2	70	15
C2	70	16
B2	80	37
A2	80	11

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⊕ = Pole Location

SCALE IN FEET



Pole location dimensions are relative to 0,0 reference point ⊗.

DELTA STATE UNIV BB CLEVELAND, MS COMPUTER LIGHT SCAN - MAINTAINED FOOTCANDLES

Fixture Type: SC-2 MZ
 Lamp Type: 1500 Watt Metal Halide MZ
 Lumens: 135000
 File Number: 11154B
 Date: 30-MAR-95
 Project: GH41154
 By: BBERRY



GUARANTEED PERFORMANCE

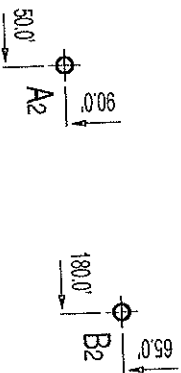
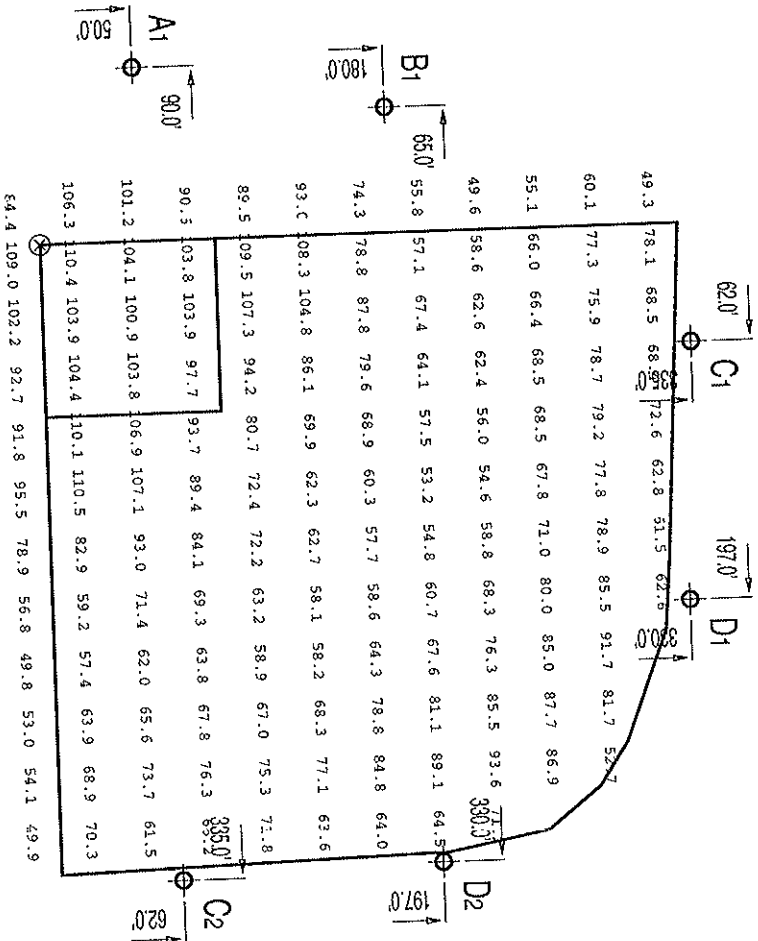
HORIZONTAL FOOTCANDLES

Average: Outfield 100.14
 Max/Min: 70.71 1.368
 Number of Poles: 2.239 8
 Number of Luminaires: 146
 KW Consumption: 233.60
 Maintenance Factor: 0.8

Field Dimensions: ☐ OK ☐ MODIFIED
 Light Levels: ☐ ☐ ☐
 Pole Locations: ☐ ☐ ☐

Voltage: _____

POLE ID	MTG HT	FIXTURES
A1	80	11
B1	80	37
C1	70	15
D1	70	15
D2	70	15
C2	70	16
B2	80	37
A2	80	11



⊕ = Pole Location

SCALE IN FEET



Pole location dimensions are relative to 0,0 reference point ⊕.

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FIELD READINGS
DELTA STATE UNIV BB
CLEVELAND, MS



GUARANTEED PERFORMANCE

Fixture Type:	SC-2 MZ
Lamp Type:	1500 Watt Metal Halide MZ
Lumens:	155000
File Number:	11154B
Date:	30-MAR-95
Project:	GHA11154
By:	BBERRY

HORIZONTAL FC	
Outfield	Infield
Target F Points:	25
Average:	125.17
Maximum:	137.98
Minimum:	100.88
Avg/Min:	1.241
Max/Min:	1.368
Number of Luminaires:	146
KW Consumption:	233.60

Vendor: _____

Number of poles: _____

Fixture type: _____

Initial lumens: _____

	Outfield	Infield
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20
21	21	21
22	22	22
23	23	23
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25	25	25
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88	88	88
89	89	89
90	90	90
91	91	91
92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

Target Points: 113 25

Average: _____

Maximum: _____

Minimum: _____

Avg/Min: _____

Max/Min: _____

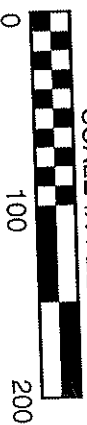
Number of Luminaires: _____

KW Consumption: _____

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SCALE IN FEET



CLEVELAND, MS DELTA STATE UNIV BASEBALL 330/400/330 BASEBALL W/70' & 80' M.H. COMPUTER LIGHT SCAN - INITIAL FOOTCANDLES

Fixture Type: SC-2 MZ
Lamp Type: 1500 watt Metal Halide MZ
Lumens: 155000
File Number: 11154A
Date: 6-JUL-94

NOTE:
BULLPEN FIXTURES MAY NEED TO BE FIELD AIMED.



GUARANTEED PERFORMANCE

HORIZONTAL FOOTCANDLES

Target Points:	6
Average:	37.08
Maximum:	48.94
Minimum:	25.89
Avg/Min:	1.432
Max/Min:	1.890
Number of Luminaires:	11
* KW Consumption:	169.60
Average Tilt Factor:	0.925
** Maintenance Factor: x	1.000
***Light Loss Factor:	0.925

*Refer to amperage draw for electrical sizing

**Maintenance factor = ambient temp. factor
X voltage factor X ballast factor X lamp
lumen depreciation X luminaire dirt
depreciation(per IES Manual RP-6-88,p.92)

***Light Loss Factor(LLF)=average tilt factor
X maintenance factor

NOTE: Light level averages and uniformities
are guaranteed by MUSCO. However,
individual location measurements may vary
from computer predictions

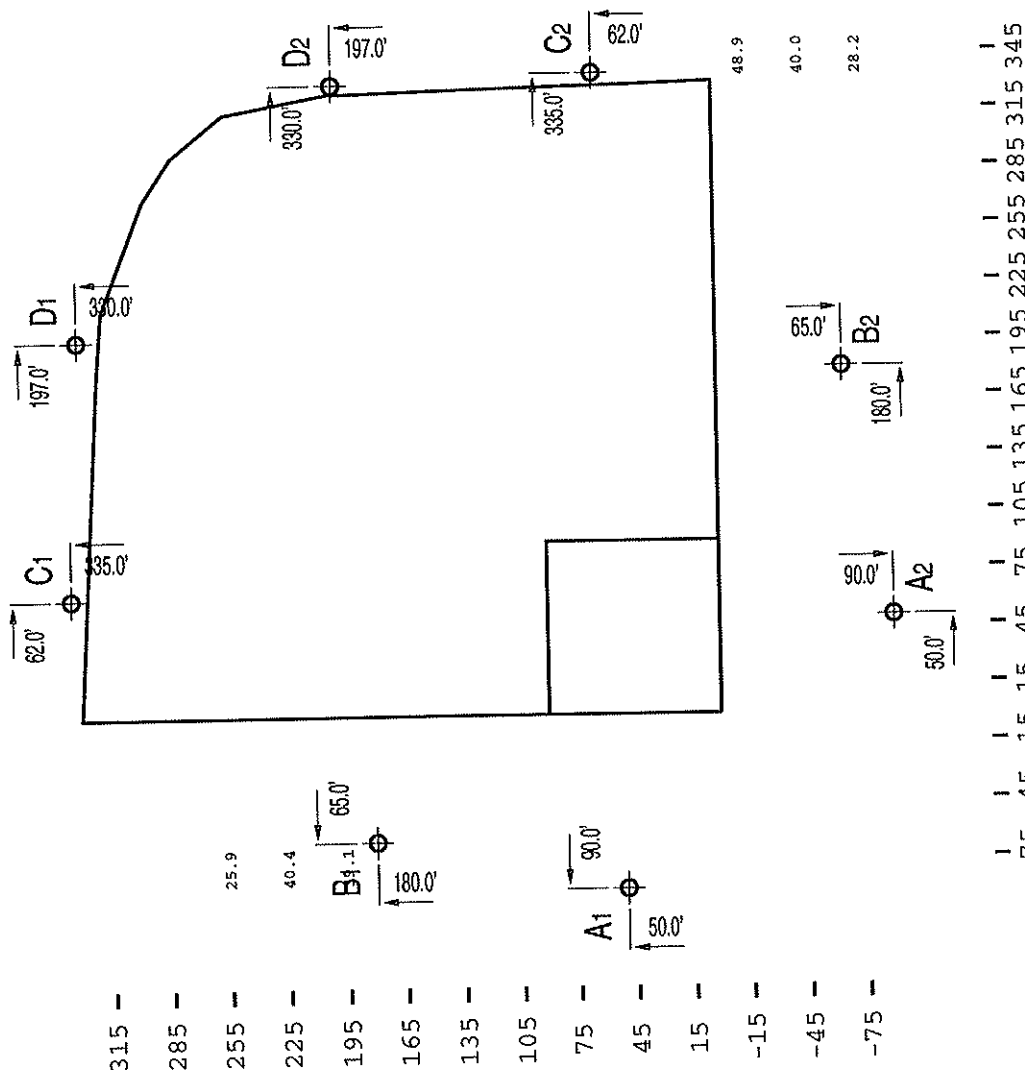
INSTALLATION REQUIREMENTS:

Results assume +3% nominal voltage at load
side of ballast box and poles located within
3' of design locations

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⊕ = Pole Location

SCALE IN FEET



Pole location dimensions are relative to 0,0 reference point which is home plate.

CLEVELAND, MS DELTA STATE UNIV BASEBALL
330/400/330 BASEBALL W/70' & 80' M.H.
COMPUTER LIGHT SCAN - MAINTAINED FOOTCANDLES

NOTE:
BULLPEN FIXTURES MAY NEED TO BE FIELD AIMED.

SC-2 MZ
1500 watt Metal Halide MZ
Lamp Type: 155000
Lumens: 11154A
File Number:
Date: 6-JUL-94



GUARANTEED PERFORMANCE

HORIZONTAL FOOTCANDLES

Target Points:	6
Average:	29.67
Maximum:	39.15
Minimum:	20.71
Avg/Min:	1.432
Max/Min:	1.890
Number of Luminaires:	11
* KW Consumption:	169.60
Average Tilt Factor:	0.925
** Maintenance Factor: x	0.800
***Light Loss Factor:	0.740

*Refer to amperage draw for electrical sizing

**Maintenance factor = ambient temp. factor
X voltage factor X ballast factor X lamp
lumen depreciation X luminaire dirt
depreciation (per IES Manual RP-6-88, p.92)

***Light Loss Factor(LLF)=average tilt factor
X maintenance factor

NOTE: Light level averages and uniformities
are guaranteed by MUSCO. However,
individual location measurements may vary
from computer predictions

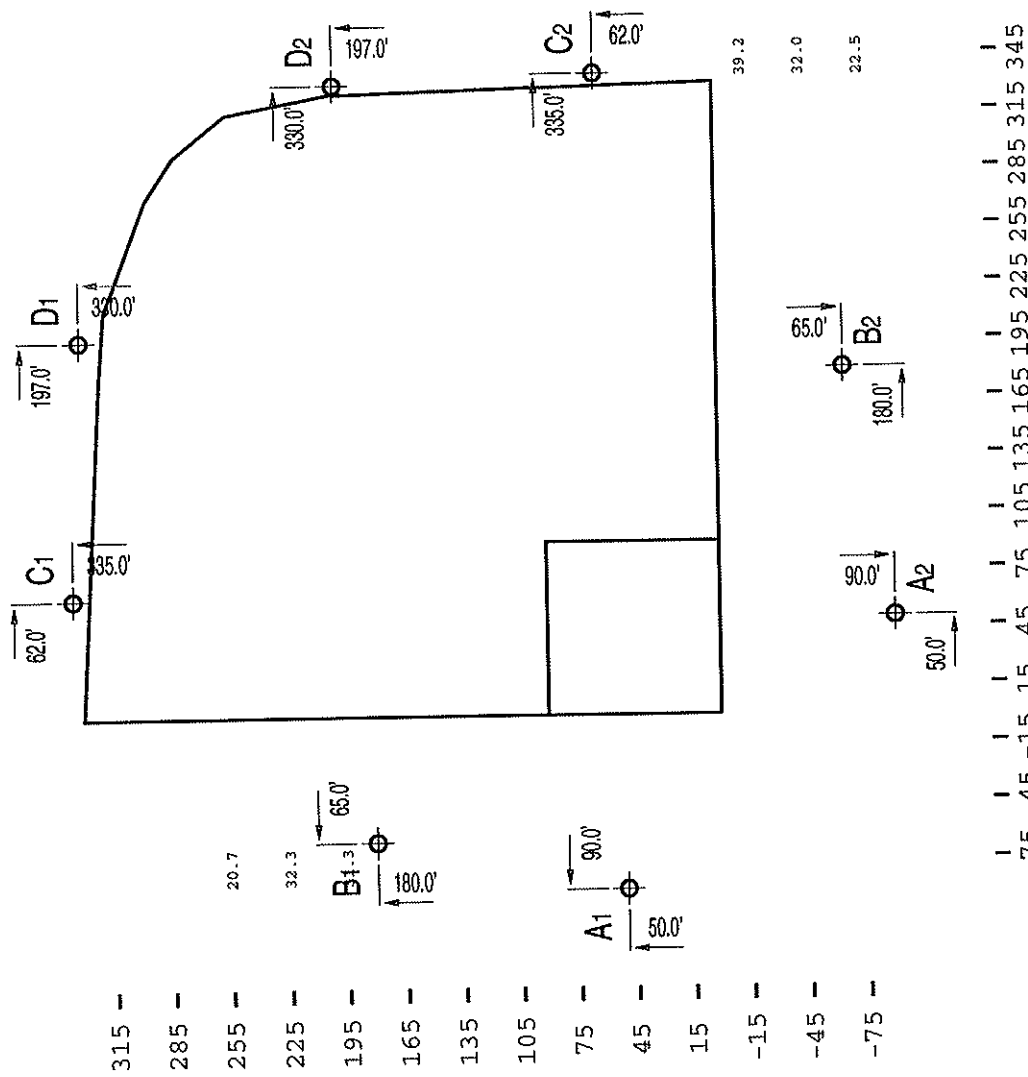
INSTALLATION REQUIREMENTS:

Results assume +3% nominal voltage at load
side of ballast box and poles located within
3' of design locations

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⊕ = Pole Location

SCALE IN FEET



Pole location dimensions are relative to 0,0 reference point which is home plate.

DELTA STATE UNIV BB
CLEVELAND, MS
COMPUTER LIGHT SCAN - INITIAL FOOTCANDLES

Fixture Type: SC-2 MZ
Lamp Type: 1500 Watt Metal Halide MZ
Lumens: 155000
File Number: 11154B
Date: 26-OCT-94
Project: GHA11154
By: TSIZEMORE



GUARANTEED PERFORMANCE

HORIZONTAL FOOTCANDLES

Average: 37.07
Max/Min: 1.621
Number of Poles: 8
Number of Luminaires: 11
KW Consumption: 17.60
Maintenance Factor: 1.0

OK MODIFIED
Field Dimensions: ☐ ☐ ☐
Light Levels: ☐ ☐ ☐
Pole Locations: ☐ ☐ ☐

Voltage: _____

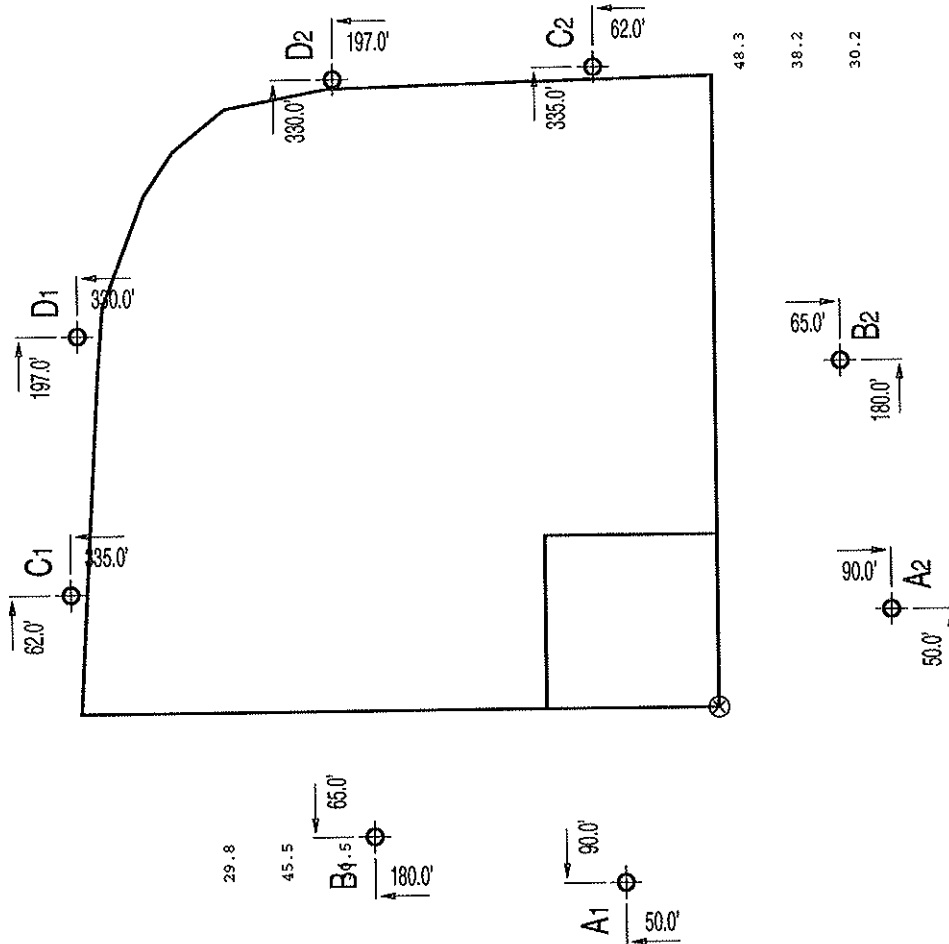
POLE ID	MTG HT	FIXTURES
A1	80	11
B1	80	37
C1	70	15
D1	70	15
D2	70	15
C2	70	16
B2	80	37
A2	80	11

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⊕ = Pole Location

SCALE IN FEET



Pole location dimensions are relative to 0,0 reference point ⊕.

DELTA STATE UNIV BB
CLEVELAND, MS
COMPUTER LIGHT SCAN - MAINTAINED FOOTCANDLES

SC-2 MZ
1500 Watt Metal Halide MZ
155000
11154B
26-OCT-94
GHA11154
TSIZEMORE

Fixture Type:
Lamp Type:
Lumens:
File Number:
Date:
Project:
By:



GUARANTEED PERFORMANCE

HORIZONTAL FOOTCANDLES

Average: 29.65
Max/Min: 1.621
Number of Poles: 8
Number of Luminaires: 11
KW Consumption: 17.60
Maintenance Factor: 0.8

OK MODIFIED
Field Dimensions: ☐ ☐ ☐
Light Levels: ☐ ☐ ☐
Pole Locations: ☐ ☐ ☐

Voltage:

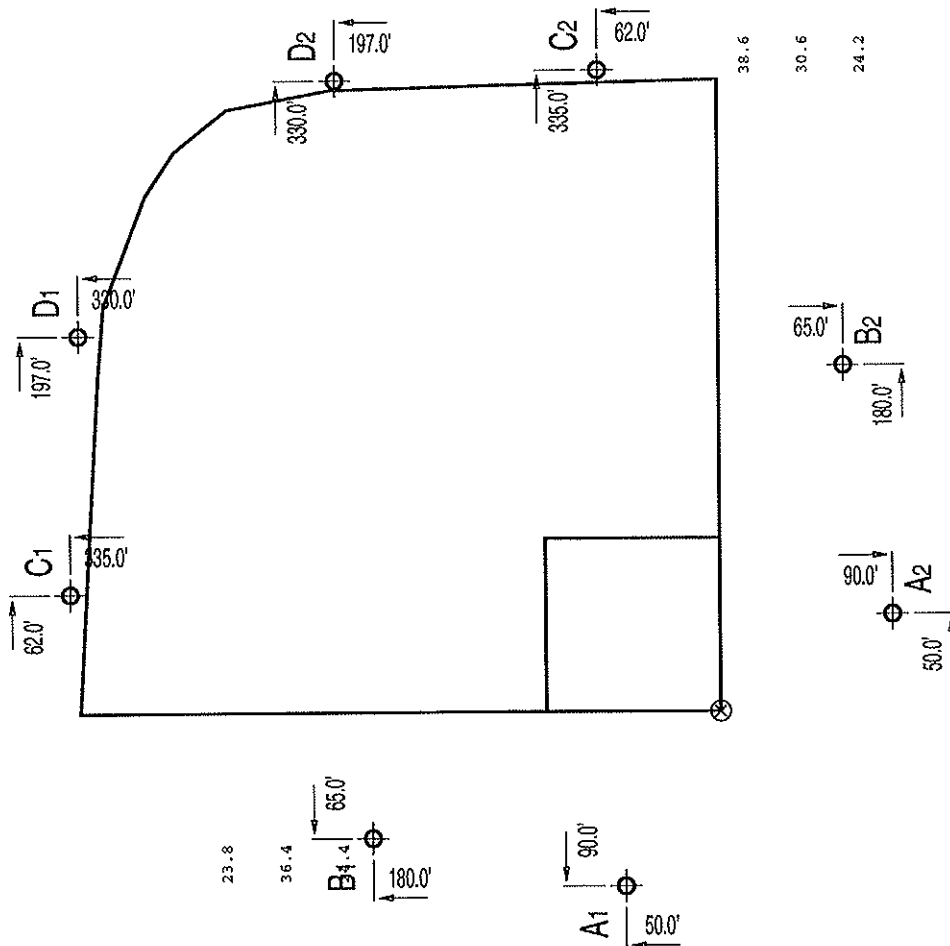
POLE ID	MTG HT	FIXTURES
A1	80	11
B1	80	37
C1	70	15
D1	70	15
D2	70	15
C2	70	16
B2	80	37
A2	80	11

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⊗ = Pole Location

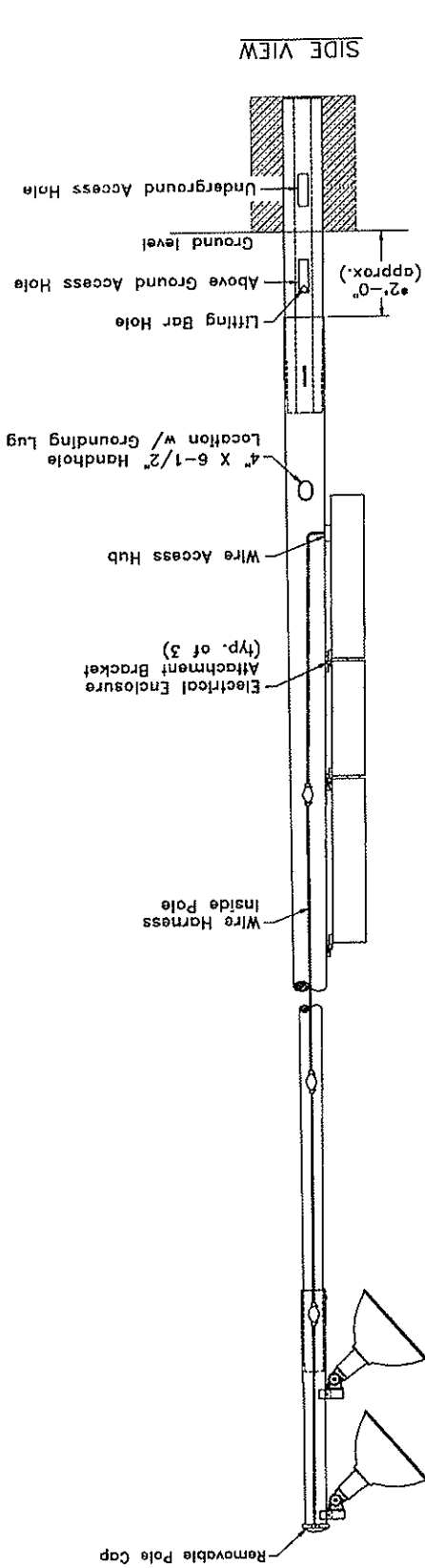
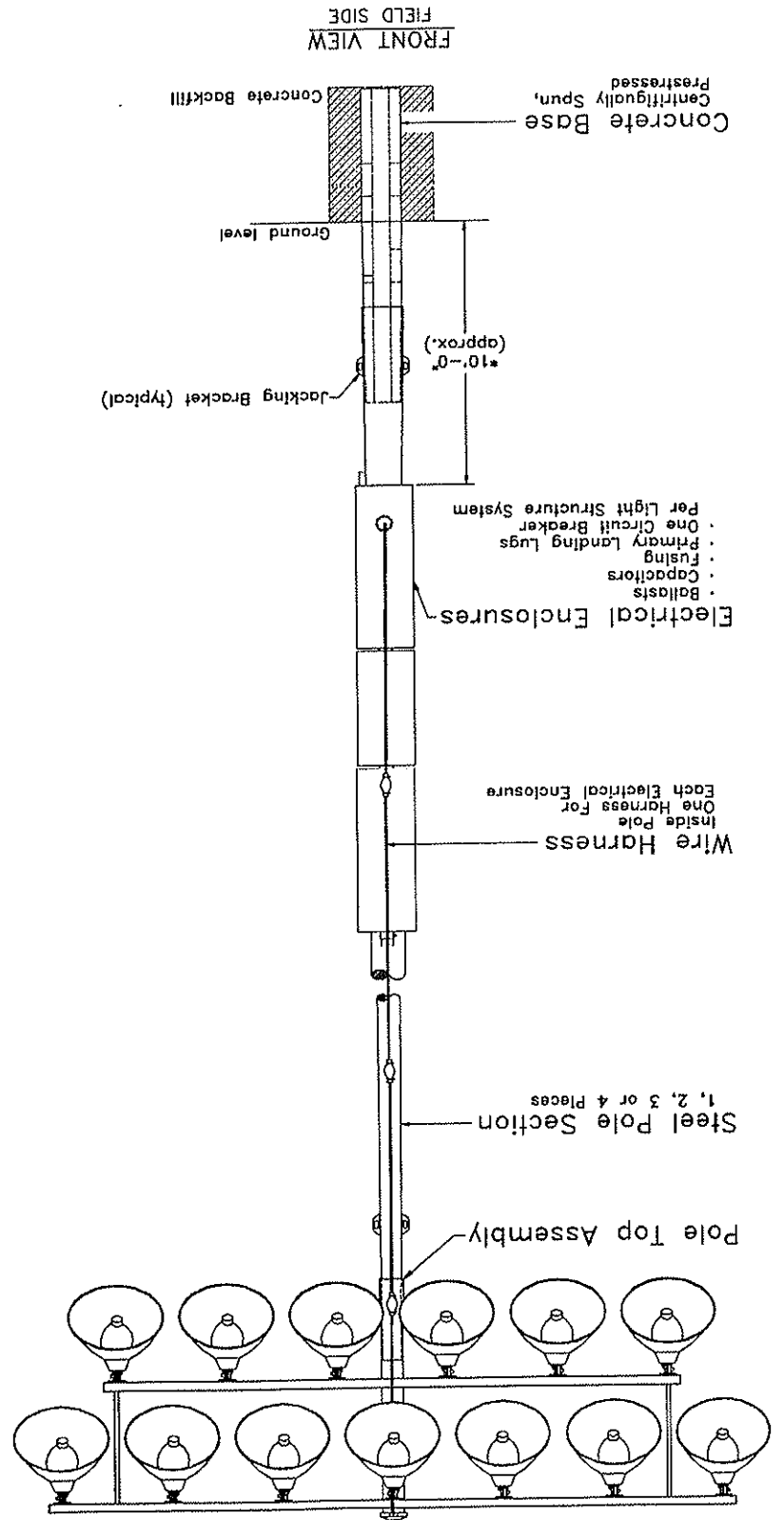
SCALE IN FEET



Pole location dimensions are relative to 0,0 reference point ⊗.

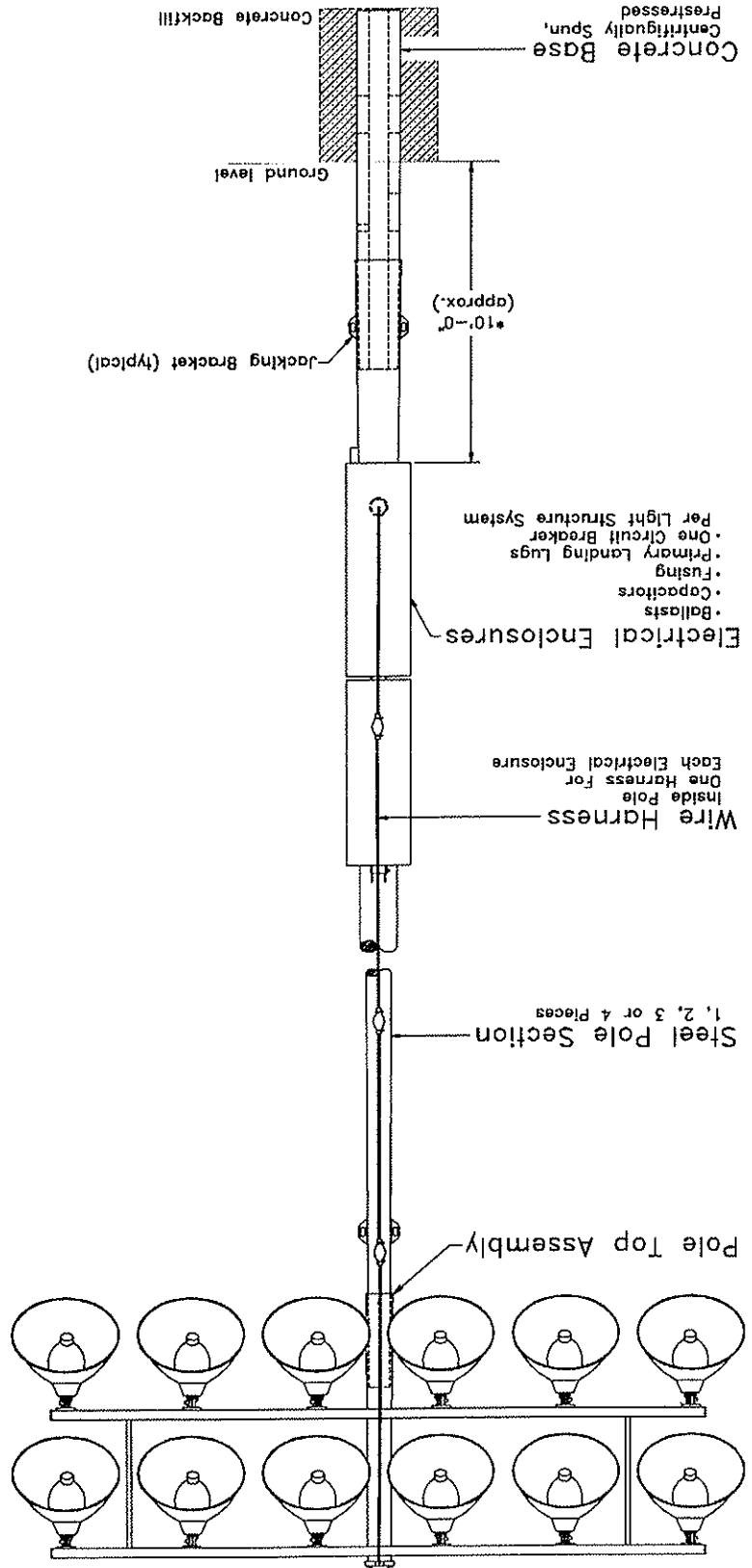
Note:
Included with each project are the following:
(1) Installation lifting bar
(1) Offset installation level
(3) Installation wedges

Note:
This dimension for reference only. Variances will occur depending on the following:
(1) Steel pole tolerances
(2) Concrete tolerances
(3) Galvanizing thicknesses
Based upon these, a variance may be seen. Additional variances will occur depending on the hole depth accuracy.

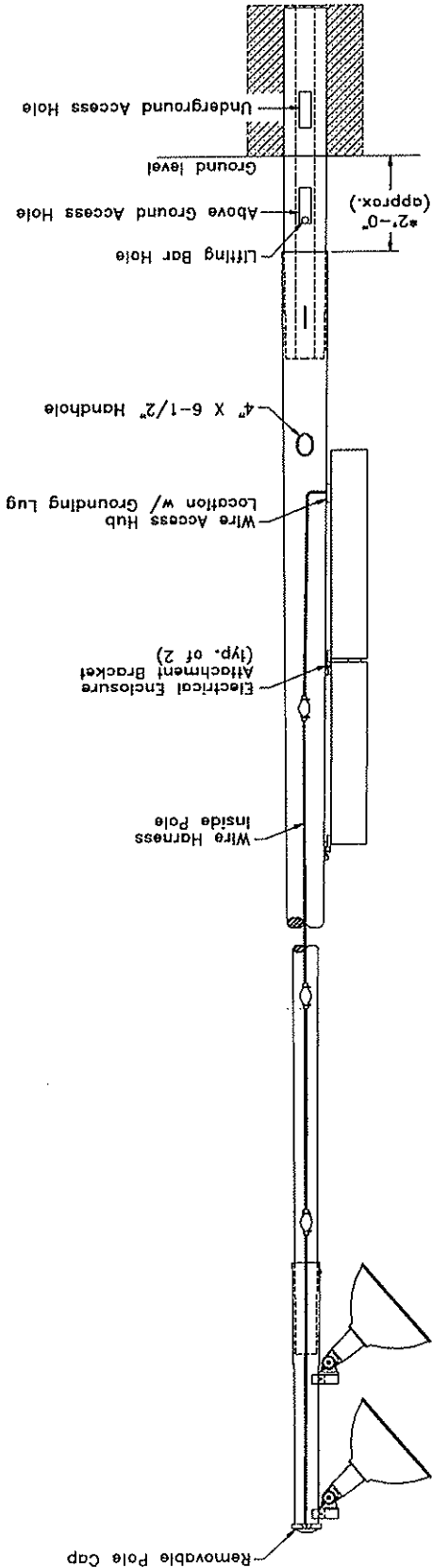


Note:
Included with each project are the following:
(1) Installation lifting bar
(1) Offset installation level
(3) Installation wedges

FRONT VIEW
FIELD SIDE



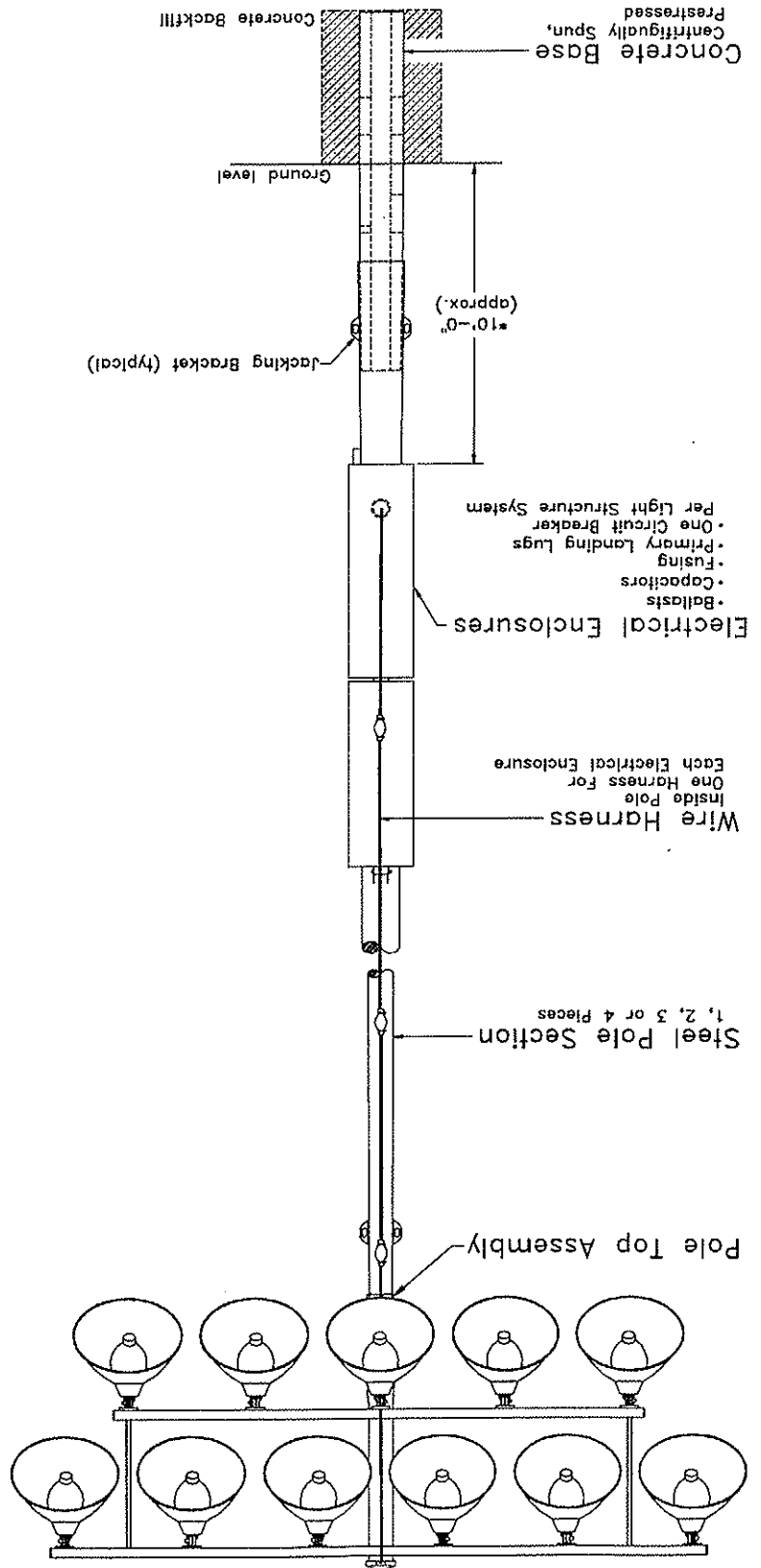
SIDE VIEW



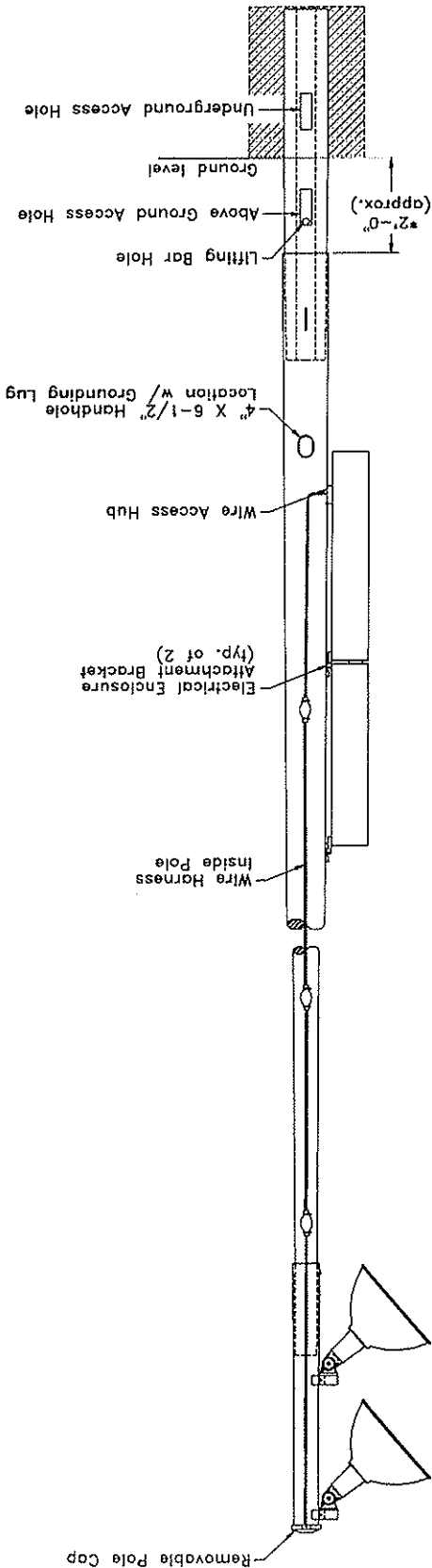
Note:
This dimension for reference only. Variances will occur depending on the following:
(1) Steel pole tolerances
(2) Concrete tolerances
(3) Galvanizing thicknesses
Based upon these, a variance may be seen. Additional variances will occur depending on the hole depth accuracy.

Note:
Included with each project are the following:
(1) Installation lifting bar
(1) Offset installation level
(3) Installation wedges

FRONT VIEW



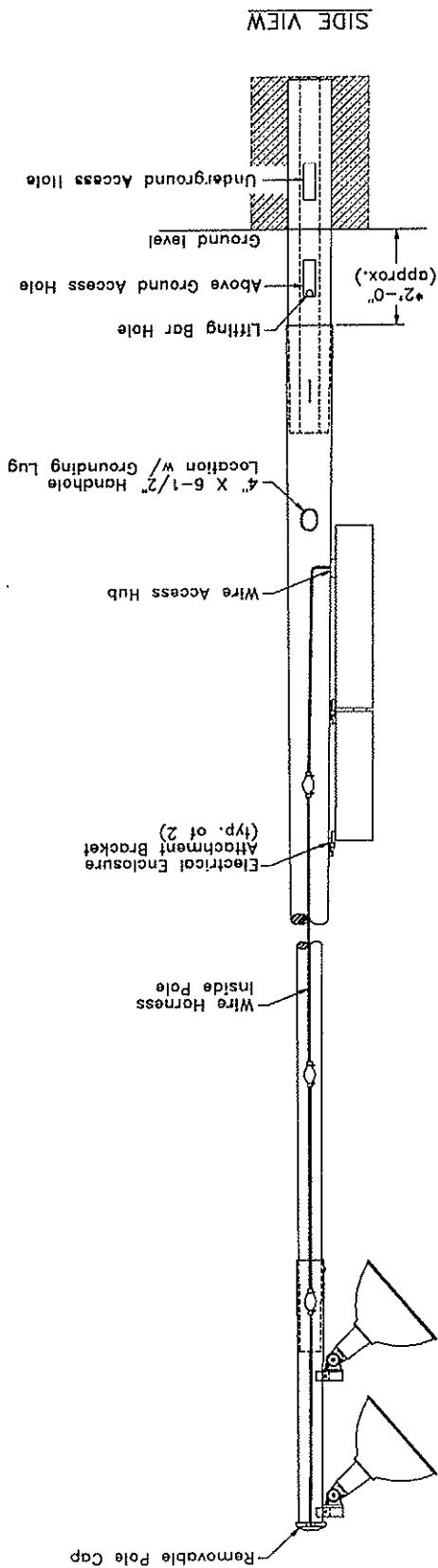
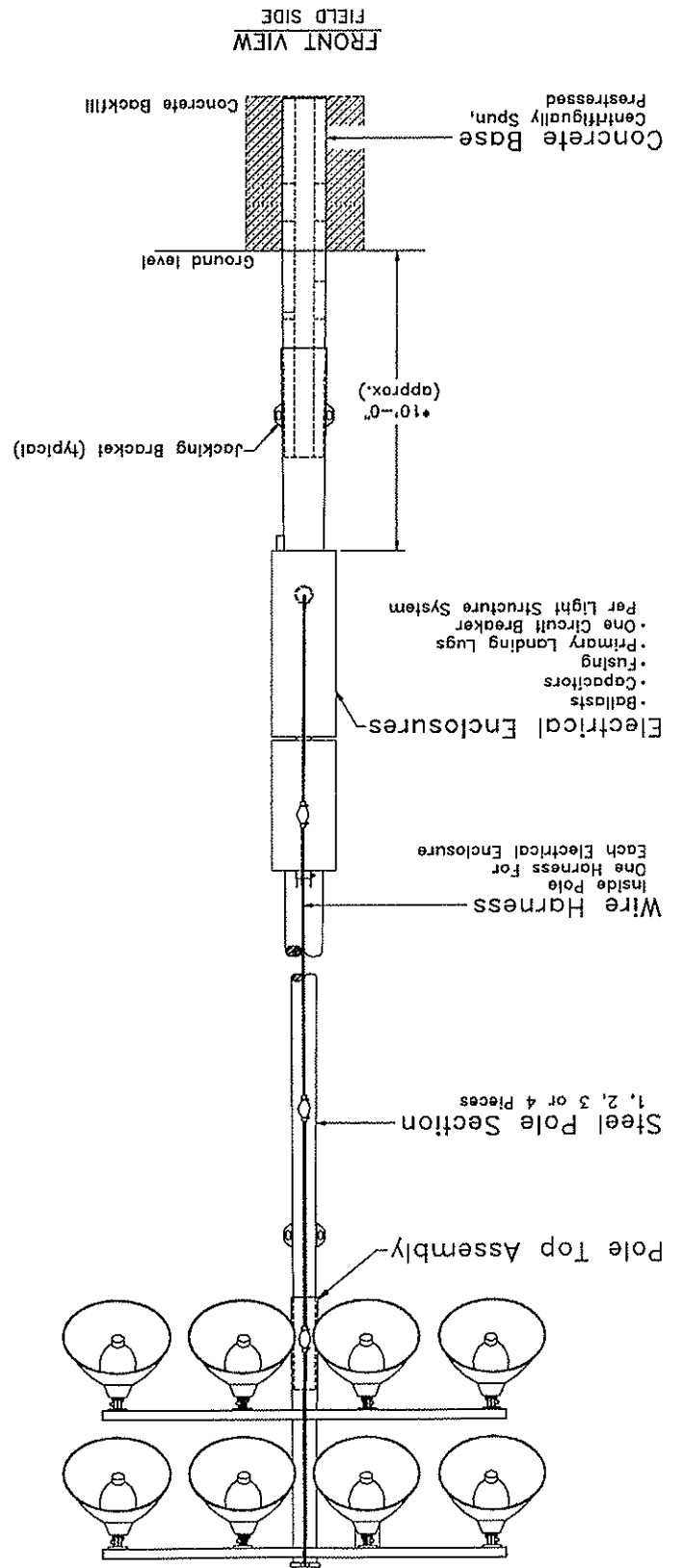
SIDE VIEW



Note:
This dimension for reference only. Variances will occur depending on the following:
(1) Steel pole tolerances
(2) Concrete tolerances
(3) Galvanizing thicknesses
Based upon these, a variance may be seen. Additional variances will occur depending on the hole depth accuracy.

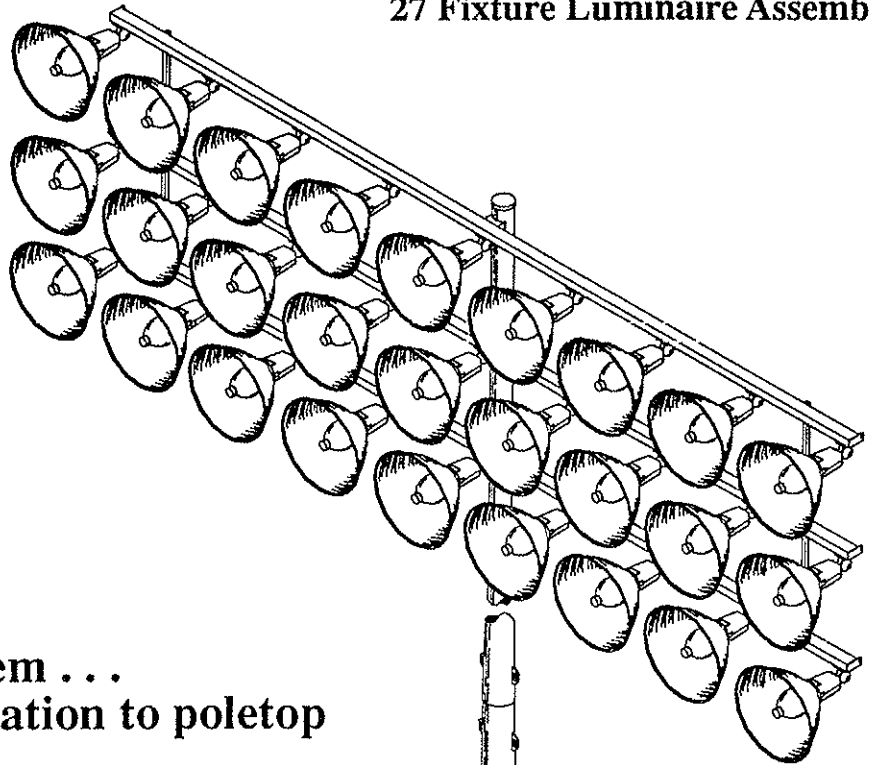
Note:
Included with each project are the following:
(1) Installation lifting bar
(2) Concrete tolerances
(3) Galvanizing thicknesses
(4) Installation wedges

Note:
This dimension for reference only. Variances will occur depending on the following:
(1) Steel pole tolerances
(2) Concrete tolerances
(3) Galvanizing thicknesses
Based upon these, a variance may be seen. Additional variances will occur depending on the hole depth accuracy.



Light-Structure System™

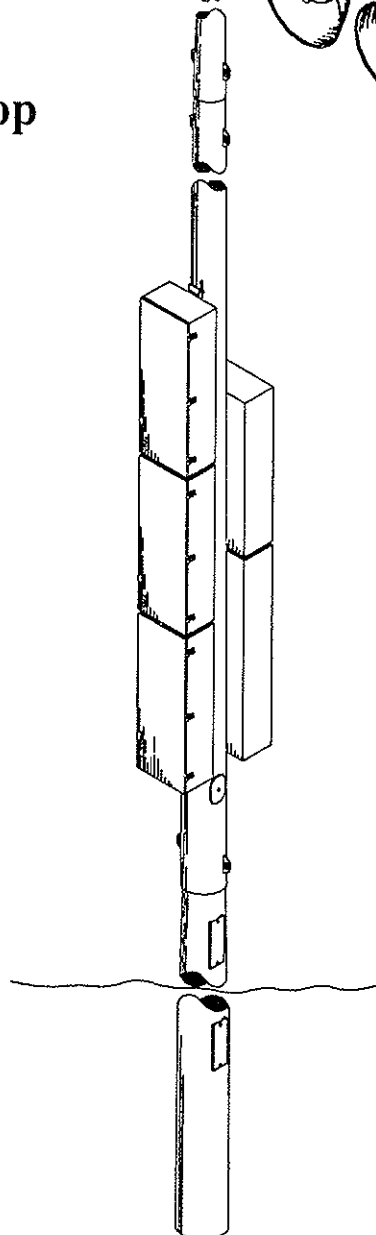
27 Fixture Luminaire Assembly



**Engineered as a system . . .
complete from foundation to poletop**

5 Easy Pieces

- Poletop luminaire assembly
- Wire harness (inside pole)
- Steel pole sections
- Electrical enclosure
- Concrete base



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Light-Structure System is protected by one or more of the following U.S. patents:
4725934, 4190881, D254694, 4374407, D257891, 4729077, 4450507, 4816974,
4947303, 4994718, 5016150, 5075828, 5134557, 5161883.

Canada: 1114798, "Rd" 1992 Musco #70479. Other patents pending.

Not to scale

CLEVELAND, MS DELTA STATE UNIV BASEBALL
330/400/330 BASEBALL W/70' & 80' M.H.
COMPUTER LIGHT SCAN - INITIAL FOOTCANDLES

NOTE:
BULLPEN FIXTURES MAY NEED TO BE FIELD AIMED.

Fixture Type: SC-2 MZ
Lamp Type: 1500 watt Metal Halide MZ
Lumens: 155000
File Number: 11154A
Date: 6-JUL-94



GUARANTEED PERFORMANCE

HORIZONTAL FOOTCANDLES

	Outfield	Infield
Target Points:	113	25
Average:	63.62	88.14
Maximum:	89.53	103.03
Minimum:	49.25	59.98
Avg/Min:	1.292	1.469
Max/Min:	1.818	1.718
Number of Luminaires:	106	169.60
* KW Consumption:		
Average Tilt Factor:	x	0.942
** Maintenance Factor:	x	1.000
***Light Loss Factor:		0.942

*Refer to amperage draw for electrical sizing

**Maintenance factor = ambient temp. factor
X voltage factor X ballast factor X lamp
lumen depreciation X luminaire dirt
depreciation(per IES Manual RP-6-88,p.92)

***Light Loss Factor(LLF)=average tilt factor
X maintenance factor

NOTE: Light level averages and uniformities
are guaranteed by MUSCO. However,
individual location measurements may vary
from computer predictions

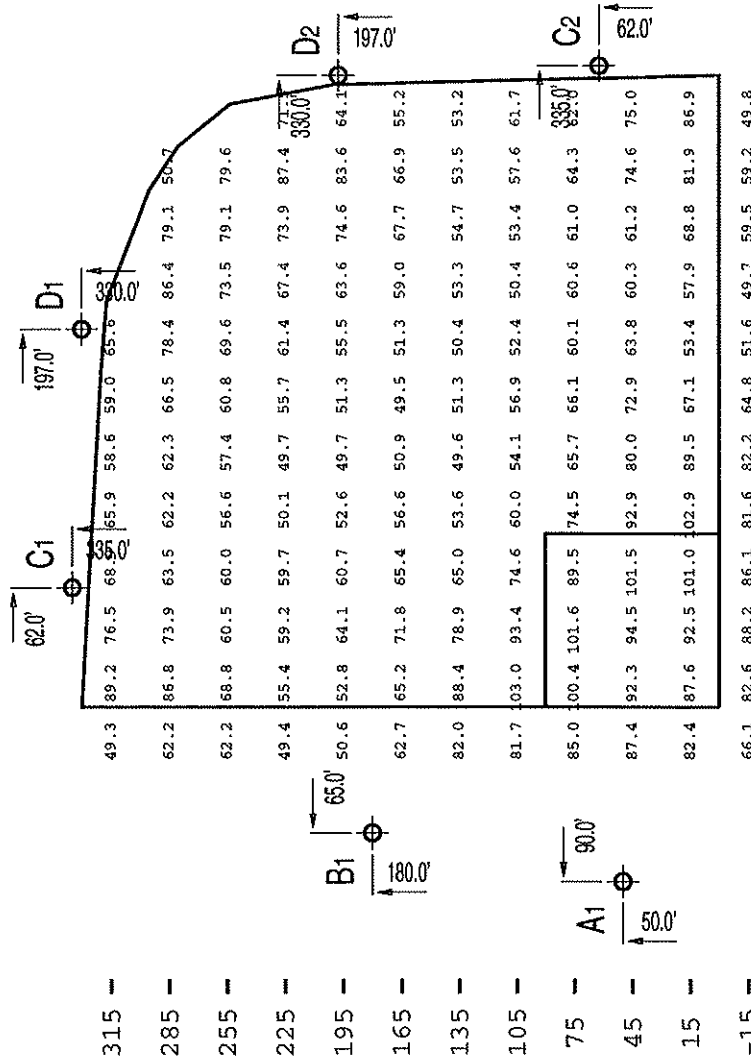
INSTALLATION REQUIREMENTS:

Results assume +3% nominal voltage at load
side of ballast box and poles located within
3' of design locations

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⊕ = Pole Location

SCALE IN FEET



Pole location dimensions are relative to 0,0 reference point which is home plate.

CLEVELAND, MS DELTA STATE UNIV BASEBALL
330/400/330 BASEBALL W/70' & 80' M.H.
COMPUTER LIGHT SCAN - MAINTAINED FOOTCANDLES

NOTE: BULLPEN FIXTURES MAY NEED TO BE FIELD AIMED.

SC-2 MZ
1500 watt Metal Halide MZ
155000
File Number: 11154A
Date: 6-JUL-94



GUARANTEED PERFORMANCE

HORIZONTAL FOOTCANDLES

	Outfield	Infield
Target Points:	113	25
Average:	50.90	70.52
Maximum:	71.62	82.42
Minimum:	39.40	47.99
Avg/Min:	1.292	1.469
Max/Min:	1.818	1.718
Number of Luminaires:	106	169.60
* KW Consumption:		
Average Tilt Factor:	x	0.942
** Maintenance Factor:	x	0.800
***Light Loss Factor:		0.753

*Refer to amperage draw for electrical sizing

**Maintenance factor = ambient temp. factor
X voltage factor X ballast factor X lamp
lumen depreciation X luminaire dirt
depreciation(per IES Manual RP-6-88,p.92)

***Light Loss Factor(LLF)=average tilt factor
X maintenance factor

NOTE: Light level averages and uniformities
are guaranteed by MUSCO. However,
individual location measurements may vary
from computer predictions

INSTALLATION REQUIREMENTS:

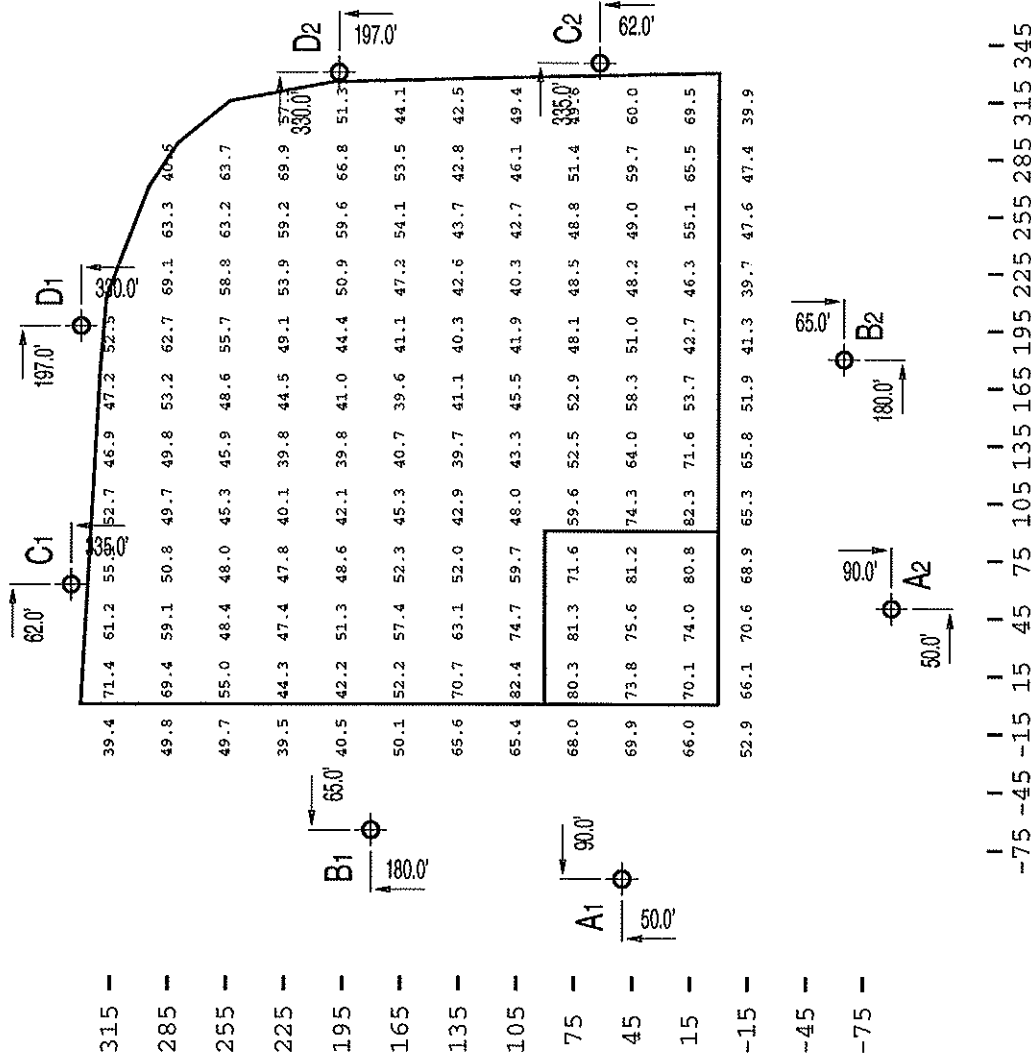
Results assume +3% nominal voltage at load
side of ballast box and poles located within
3' of design locations

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⊕ = Pole Location

SCALE IN FEET



Pole location dimensions are relative to 0,0 reference point which is home plate.

DELTA STATE UNIV BB PHASE II CLEVELAND, MS COMPUTER LIGHT SCAN - INITIAL FOOTCANDLES

Fixture Type: SC-2 MZ
 Lamp Type: 1500 Watt Metal Halide MZ
 Lumens: 155000
 File Number: 11154B
 Date: 26-OCT-94
 Project: GH41154
 By: TSIZEMORE



GUARANTEED PERFORMANCE

HORIZONTAL FOOTCANDLES

Average: Outfield Infield
 88.39 125.17
 Max/Min: 2.239 1.368
 Number of Poles: 8
 Number of Luminaires: 146
 KW Consumption: 233.60
 Maintenance Factor: 1.0

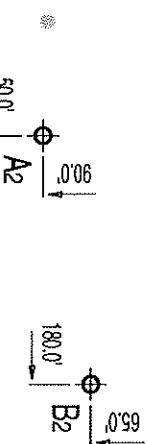
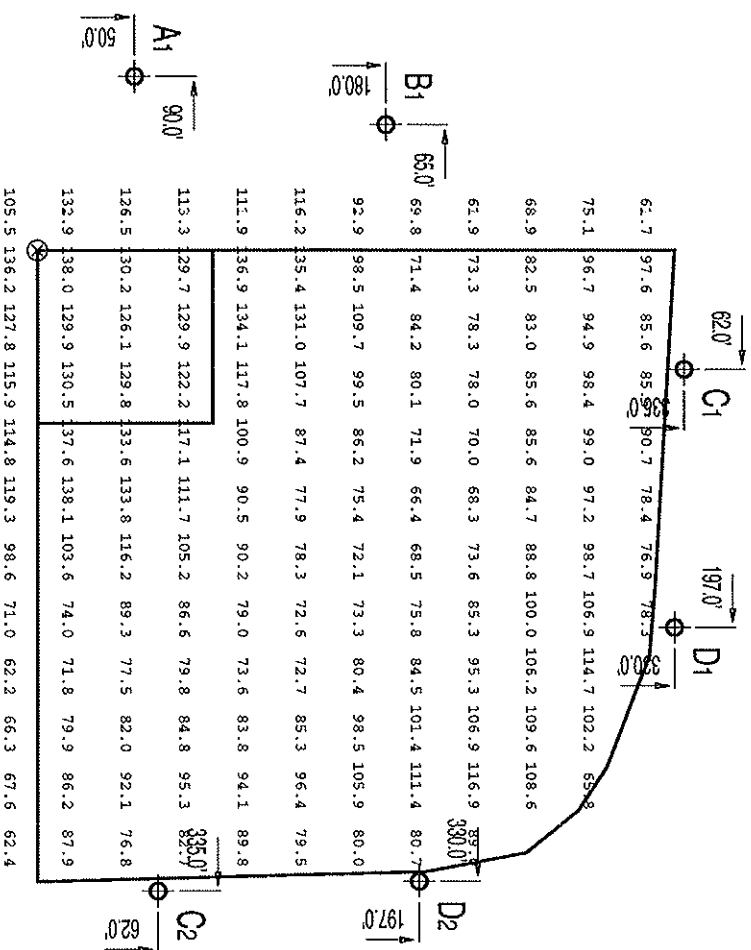
Field Dimensions: ☐ OK ☐ MODIFIED

Light Levels: ☐ ☐ ☐ ☐

Pole Locations: ☐ ☐ ☐

Voltage: _____

POLE ID	MTG HT	FIXTURES
A1	80	11
B1	80	37
C1	70	15
D1	70	15
D2	70	15
C2	70	16
B2	80	37
A2	80	11



This preliminary information is subject to confirmation and any modifications indicated.

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☉ = Pole Location

SCALE IN FEET



Pole location dimensions are relative to 0,0 reference point ☉.

DELTA STATE UNIV BB
CLEVELAND, MS
COMPUTER LIGHT SCAN - MAINTAINED FOOTCANDLES

PHASE II

SC-2 MZ
1500 Watt Metal Halide MZ
Lamp Type:
155000
Lumens:
111545
File Number:
26-OCT-94
Date:
GHA11154
Project:
TSIZEMORE
By:



GUARANTEED PERFORMANCE

HORIZONTAL FOOTCANDLES

Average: Outfield Infield
70.71 100.14
Max/Min: 2.239 1.368
Number of Poles: 8
Number of Luminares: 146
KW Consumption: 233.60
Maintenance Factor: 0.8

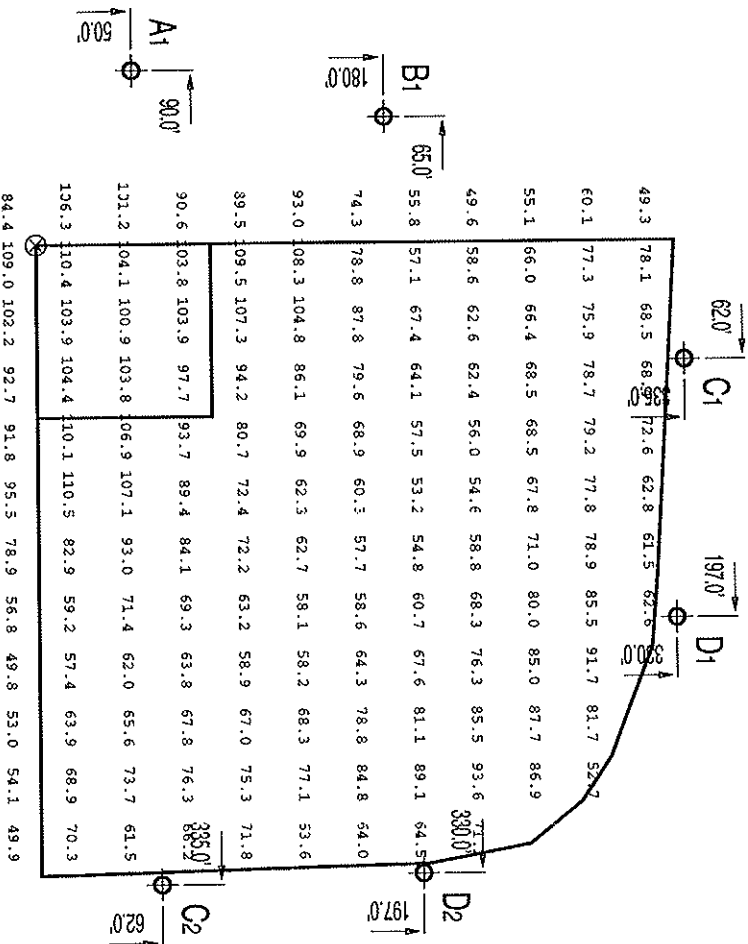
Field Dimensions: ☐ OK ☐ MODIFIED

Light Levels: ☐ ☐ ☐ ☐

Pole Locations: ☐ ☐ ☐

Voltage: _____

POLE ID	MTG HT	FIXTURES
A1	80	11
B1	80	37
C1	70	15
D1	70	15
D2	70	15
C2	70	16
B2	80	37
A2	80	11



This preliminary information is subject to confirmation and any modifications indicated.

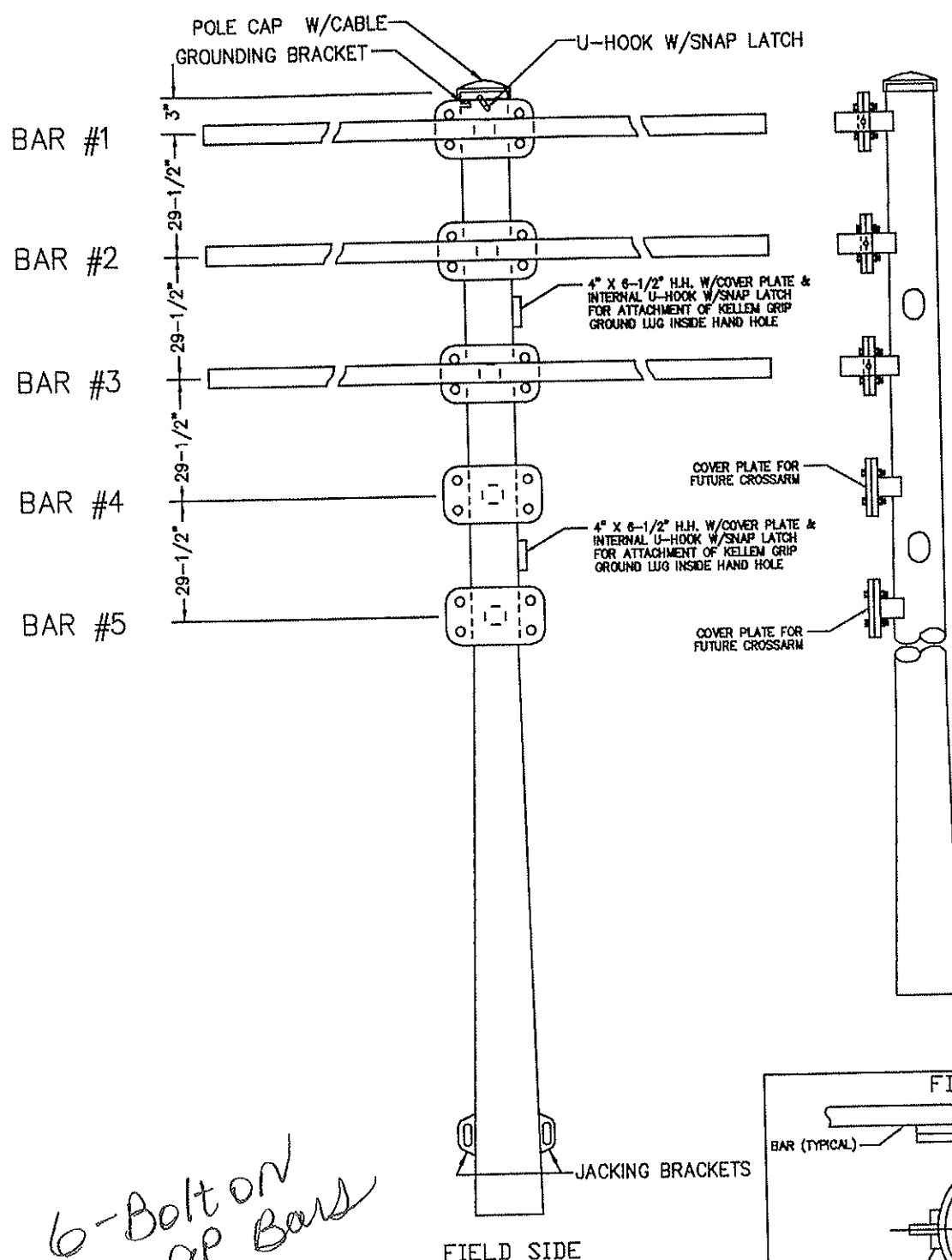
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⊗ = Pole Location

SCALE IN FEET



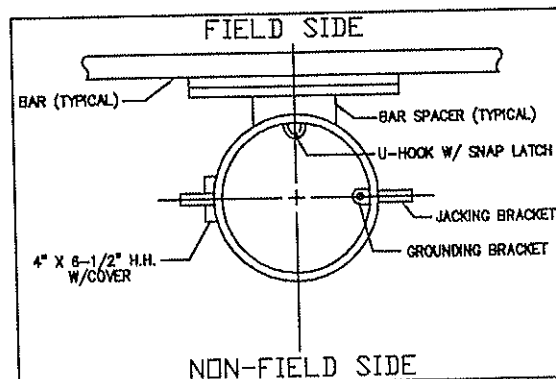
Pole location dimensions are relative to 0,0 reference point ⊗.



INTERNAL

6-Bolt on
ap Bars

FIELD SIDE



QTY SPEAKER BRKTS: 0 VERTICAL MTG PLATES: 0 DSA: N

POLE	CAT. #	TUBE	SPCR	CAP	B1	B2	B3	B4	B5	SIDE	H1	H2	H3	MW	BK
B1	LS90B37	3T	8	137	9F	9F	9F	5F	5F	LEFT*	6XL	6L	6L		Y
										RIGHT**	6XR	6R			
B2	LS90B37	3T	8	137	9F	9F	9F	5F	5F	LEFT*	6XL	6L			Y
										RIGHT**	6XR	6R	6R		

* LEFT SIDE = 90 deg. CLOCKWISE FROM FIELD
 ** RIGHT SIDE = 90 deg. COUNTER-CLOCKWISE FROM FIELD

NOTE: 1. ALL POLES HAVE FUTURE BALLAST BOXES ON NON-FIELD SIDE
 2. THE LOWER (2) CROSSARM MOUNTING PLATES ARE FOR FUTURE CROSSARMS AND WILL REQUIRE COVER PLATES.

Job: DELTA STATE UNIV BB
 CLEVELAND, MS
 By: *DCJ* Scale: NONE Date: 12-SEP-1995
 Representative: ALABAMA/MISSISSI Numbers: S-GHA11154F3
 ORDER: 15734 REVISION: 0

MUSCO
 LIGHTING, INC.