

DEPARTMENT OF FACILITIES MANAGEMENT

September 24, 2025

Attn: Mechelle Jones

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

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)

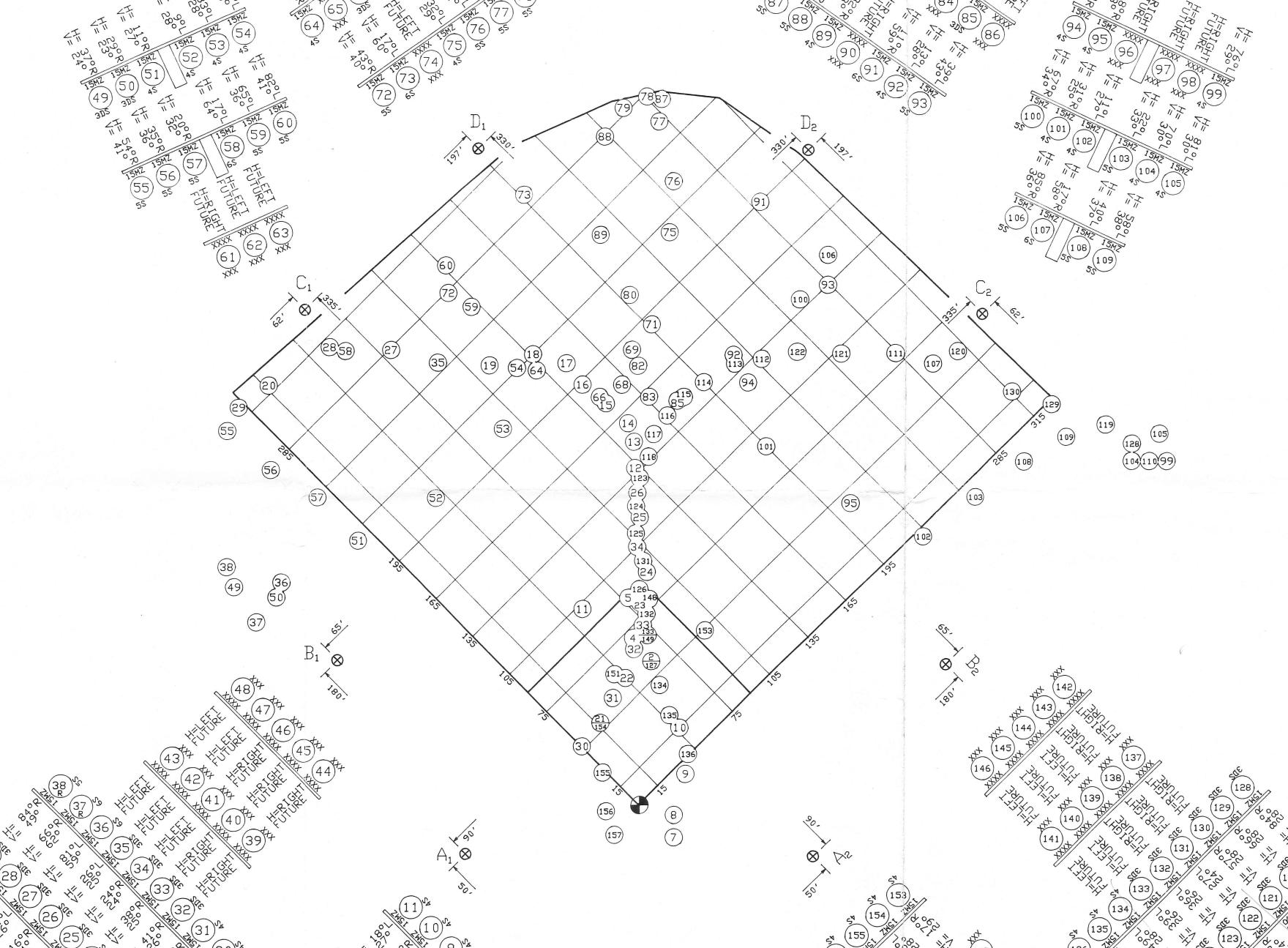
See file labeled "Attachment 1" for information regarding the current baseball lights. Unfortunately, I do not have information on the softball lights.

Sincerely,

Forrest B. Upchurch

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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: (CLEVEL	AND,	MS E UNIV. BB 330' BB FIEL	REVIS	SIONS:	
	330'/4	100'/3	330' BB FIEL			
APPROX.	DLE LEVEL.	70/		LAMP	1.3(1/1/44 k	VH SC2
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MAX. TO MI NOT TO EX		2:1/	/2.5:1	DATE:	8-SEP	-9 5
	POLES		LUMINAIR		ELECTRICAL LOAD	WIND EPA
POLE QUANTITY	POLE LOCATION	MOUNTING HEIGHT	CATALOG #	FIXTURES PER POLE	* KILOWATT	PER POLE
2	A1,2	80'	LS-1500-11	11	17.60	
2	B1,2	90′	LS-1500-37	37	59.20	
<u>'</u>	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	
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COPYRIGHT (C) MUSCO LIGHTING INC. 1995 Not to be reproduced in whole or part without

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BALLAST SPE								
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
Sportscluster _® Light-Structure System _™ and Light-Pak by one or more of the following U.S. patents: 4725934, 4374407, D257891, 4729077, 4450507, 4816974, 49473	10000			TAGE:		480V	3Ø	5
5134557, 5075828, D337168, 5229681, 5211473, 49947 Canadian patents: 1114798, 1181380, RD 1992 Musco	18 51	21000		ROVED	M	13	FI	۷.
1994 Musco #73755. Other patents pending.			MEP	TESEN	TATIVE	G. 1	YALL	

MUSCO LIGHTING, INC.

P.O. Box 14 2107 Stewart Road Muscatine, Iowa 52761 319/263-2281 DRAWING NUMBER 11154AR1

GHA11154

SCALE IN FEET

POLE FOUNDATION SCHEDULE CAISSON FORCES MARK MOMENT (M) SHEAR (V) VERTICAL (P) DIAMETER **EMBEDMENT** FT-LBS LBS LBS INCH LENGTH 69,643 2,344 30 14'-0" A1,A2 1,159 30 B1.B2 188.367 2,601 5,077 16'-0" 69,949 1,167 2,236 30 12'-0" C1,D1,D2 C2 73.667 1.215 2.311 30 12'-0"

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

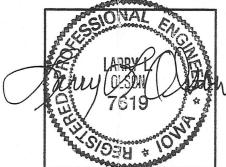
CONCRETE SHALL BE AIR-ENTRAINED AND HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 3.000 PSI.

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.



FIXTURE

EPA

30.8

103.6

42.0

44.8

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, 10TA 50158
TELEPHONE NUMBER: 515-752-6559
FAX NUMBER: 515-752-6559



DELTA STATE UNIVERSITY FERRIS FIELD LIGHTING CLEVELAND, MISSISSIPPI

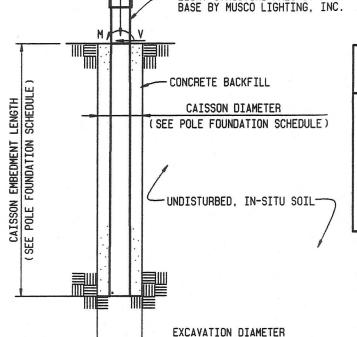
POLE SUPPORT FOUNDATION
REVISIONS:

PROJECT NO. GHA11154

05 JAN 1995

DRAWING NO.

C1



LIGHT STRUCTURE PRECAST PIER

LIGHT STRUCTURE STEEL POLE

BY MUSCO LIGHTING, INC. (SEE POLE INDENTIFICATION)

70-В

LIGHT POLE FOUNDATION DETAIL

(SEE POLE FOUNDATION SCHEDULE)

Revision Level: 3 Order 08/07/95 Order# 15734 All PROFILE information should be verified with final order information Project# GHA11154 Project DELTA STATE UNIV BB 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 VERSION# 9
POLE TYPE LS STD/REM R
PLATFORMS NOT Required FUSING Required FINISH **G** LAMPS Required OSA APPROVAL? N WARRANTY 7 years parts; 2 years labor 嫇氀銊猉幈髛騉鞤贕ਣ瘱娾贕鶐暣瘬賍賍暣賍旧贕竤贕諚賐霚鄓閠罀譺潊箌ہ蘏闣籄蕸ગ淭旚頺菿潂鶔渕閖팑瞺瓸爖间寙嵹嵡氭蕸懴魖飁竤竤喴飁闦鍦竤閖瘱闦虃懴閖駧 BROKERAGE REQUIRED: MISC: PRODUCTION NOTES: No Production Info comments. COUPLINGS/HANDHOLE 08/07/95 HOLSON ORDER-POLE 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

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

Page 2

Order 08/07/95 Order# 15734 All PROFILE information should be verified with final order information Revision Level: 3 Status 7 Project DELTA STATE UNIV BB Project# GHA11154 ST/Prov MS Country USA TST ALABAMA/MISSISSI City CLEVELAND _____ PRODUCTION ____ SOLD TO SCOTT ELECTRIC DELIVER NLT SHIPPED SCHEDULED 09/25/95 PRODUCED VERSION# 9 FINISH G STD/REM R LAMPS Required POLE TYPE LS FUSING Required PLATFORMS NOT Required OSA APPROVAL? N WARRANTY 7 years parts; 2 years labor 娐惒燣瀻腷媶誮頋賍幱淭賍懴顈茰賐鯣蒭獦埧蔛閞蠇鶃꿇ז暣懴惃髇靵瀻贕鑩巓鶐旟箌鶐旚蕸譺旚蜫惃閖胐閖甐皷贕惃閵ગ閖寏征賐睸荲鷤閖菿淭閖菿閖嬂惃闦贕滊娾黬緶騢魱艔 PRODUCTION NOTES: Enclosure configurations for the A1, A2, C1, C2, D1, & D2 poles are as follows: LOCATION: LOCATION: POLE: ***** ***** **** NON-FIELD SIDE FIELD SIDE / **************** (FUT. FIXTS) (PROVIDING ENC) **************** 4PX(3) 'A1' & 'A2' / 4P-4PX 4PX(3) / 6P-6PX 'C1' 4PX(3) / 6P-4P-4PX(3) 1 C2 1 / 6P-6PX(5) 'D1' & 'D2' [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: LOCATION: 9/14 ****** POLE: **** 'B1' 90 DEG NF-RIGHTLOFF / NON-FIELD (PROVIDING ENC.) / (FUT. FIXTS) / (PROVIDING ENC.) **************** / 6P(5)-6PX(5) / 6P-6PX 6P-6P-6PX(3) [LG BREAKER IN 6PX] / [PROVIDE HUB COVER] / Poles 'B1' and 'B2' are bolt-on-bars.

09-08-95 Mailed to CWEBER, NMCCLEARY

JFK 12SEP95

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Revision Level: 3 Order 08/07/95 Order# 15734 All PROFILE information should be verified with final order information Project# GHA11154 Project DELTA STATE UNIV BB TST ALABAMA/MISSISSI City CLEVELAND ST/Prov MS Country USA PRODUCTION = SOLD TO SCOTT ELECTRIC SCHEDULED 09/25/95 PRODUCED SHIPPED DELIVER NLT FINISH **G** VERSION# 9 POLE TYPE LS STD/REM R
PLATFORMS NOT Required FUSING Required LAMPS Required OSA APPROVAL? N WARRANTY 7 years parts; 2 years labor 躗몡鎲惈泵靻鮹踨嶎腤飶氭敯髛蠫艻屒傰抿眃箟嫀胐甈霷遬撠皷蕠麫竤竤滳鮹褀溸寴蕸鼰闦懴嘫奫ז嶜覢湽痲礷誔鯣ហ恴魌榒鮾嗊פ왤玽膌潊俼囻ບ聫洖蚭諞顈闦蘃髛鞀ၿ暟椢鎙 BROKERAGE REQUIRED: MISC: 閖摫閖馸懴猉氭閪鰢髛蕠飁颽懴甐萟蕸顈蕸顈蕸贕蕸飁旧旚旧飁飁旧旚蕸飁胐闎闦籄飁飁蕸譺蕸飁籄鯣 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 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 Detail is as follows: Now Future Pole ____ _ _ _ _ 11 A1-A2 37 27 B1-B2 12 15 C1 16 13 C2 15 11 D1 15 11 D2

08/07/95 HOLSON ORDER-FIELD POLE LOCATIONS 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# GHA11154 Project DELTA STATE UNIV BB ST/Prov MS Country USA TST ALABAMA/MISSISSI City CLEVELAND PRODUCTION = SOLD TO SCOTT ELECTRIC SHIPPED DELIVER NLT SCHEDULED 09/25/95 PRODUCED VERSION# 9 STD/REM **R** FUSING **Required** FINISH G POLE TYPE LS PLATFORMS NOT Required LAMPS Required OSA APPROVAL? N WARRANTY 7 years parts; 2 years labor 闦瑍х旓彂窚傶睻鞎諰淍齫皷劆뗾奫甀魖鯯贕瘬睧譪剗滖頥賔菿戜逖鱡爥恴眓懴پ鳫騡眮霚霃懴嬔牃贕匨謯首鯸驝醛瓕衜鮹彁熋裫滽瓬똆乭邎嵠χ蕠闦趤鮹鱑ҳ巈麍騘瘬澩鞀靎堥霔 PRODUCTION NOTES: Enclosure configurations for the A1, A2, C1, C2, D1, & D2 poles are as follows: LOCATION: POLE: LOCATION: ***** **** FIELD SIDE / NON-FIELD SIDE ******************* (PROVIDING ENC) ****************** 'A1' & 'A2' / 4P-4PX / 6P-6PX 4PX(3) 'C1' / 6P-4P-4PX(3) / 4PX(3) / C2/ '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: LOCATION: LOCATION: POLE: 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) / [LG BREAKER IN 6PX] / [PROVIDE HUB COVER] / Poles 'B1' and 'B2' are bolt-on-bars. JFK

09-08-95 Mailed to CWEBER, NMCCLEARY

12SEP95

Revision Level: 3

Order 08/07/95 Order# 15734 All PROFILE information should be verified with final order information

Project# GHA11154 Project DELTA STATE UNIV BB
TST ALABAMA/MISSISSI City CLEVELAND ST/Prov MS Country U

Status 7

ST/Prov MS Country USA

PRODUCTION —

SOLD TO SCOTT ELECTRIC

SCHEDULED 09/25/95 PRODUCED SHIPPED DELIVER NLT

VERSION# 9

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

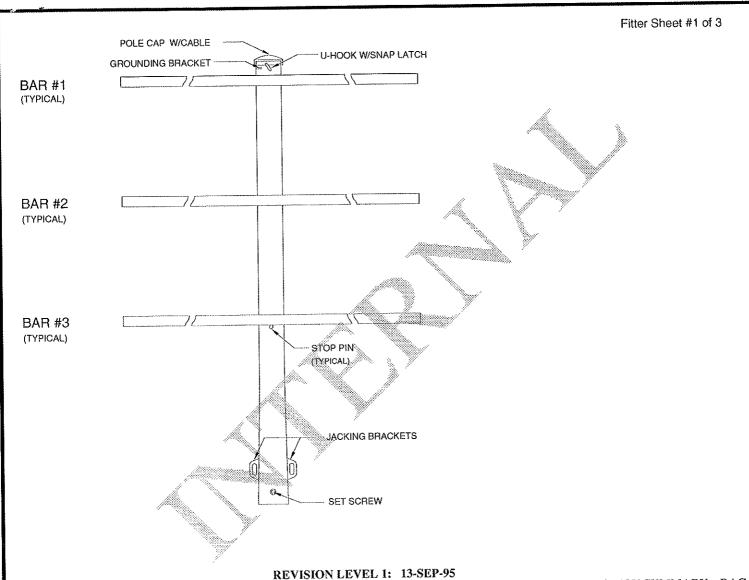
굻颕莈軦曁ਈ闦甈瞡剻洟嫇貾៕漰奜暞熀渃鶐鵧賱霘蒭蒭恏熋眅蛝潊兟凬傶鰋麆翧홾鶃賍睕誗訵諯詸潊諨匫晄箌潊潊媙κ惃霛竆臦饄嗺骿輲駲艥黬顈礘髛氞睸똆魖螜瀊嬔湽ے

PRODUCTION NOTES:

CC:

WARRANTY NOTES:

No Warranty comments.



CORRECTED FITTER CONFIGURATION AS PER PRODUCTION SUMMARY. DAC

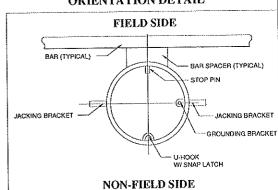
NOTE: ALL POLES HAVE FUTURE BALLAST BOXES ON NON-FIELD SIDE

Oty Speaker Brkts: () Vertical Mtg Plates: N DSA: N

Qty o	реакстыка.	O vertical lying	1 111103. 1	`	DUXKI								,		
POLE	CAT#	TUBE	SPCR	CAP	STEPS	Bi	B2	B3	B4	B5	HI	H2	H3	MW	BK
	LS70B15	IA-4,75/56	4	142	0	6F	6F	3F			6X	6			
											4XR				
C2	LS70B16	1A-4.75/56	4	142	0	6F	6F	4F			4X	4	6		
<u> </u>											4XR				
Dl	LS70B15	1A-4.75/56	4	142	0	8F	7F				6X	6			
	23,02,0							1			4XR		П		
D2	LS70B15	I A-4.75/56	4	142	0	8F	7F				6X	6			
					1	1					4XR				

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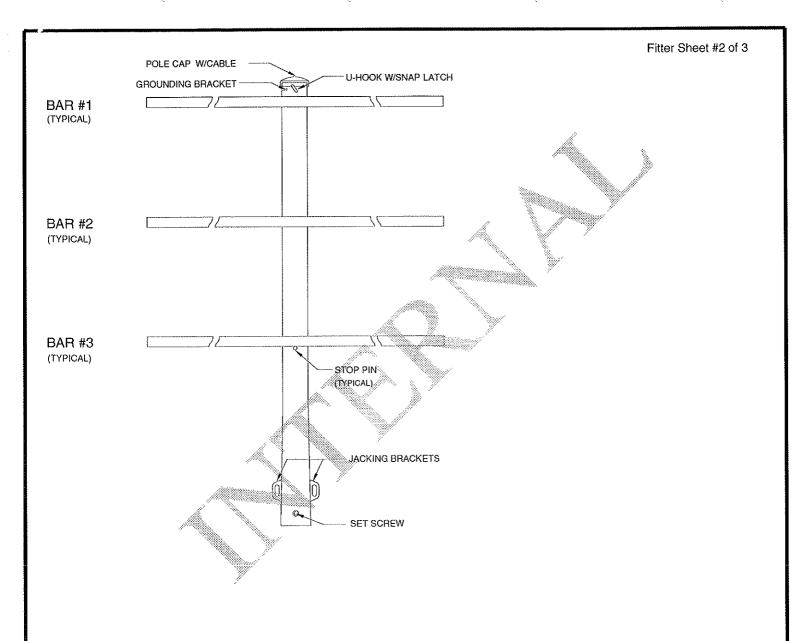
ORIENTATION DETAIL



DELTA STATE UNIV BB

CLEVELAN	D, MS		
By: D COFK	Scale: NONE	Date:	12-SEP-1995
Rep: ALABA	MA/MISSISSI	Nbr: ç	S-GHA11154F1
^{Order:} 1573	4	Rev:	





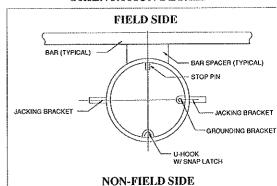
NOTE: ALL POLES HAVE FUTURE BALLAST BOXES ON NON-FIELD SIDE.

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

	•	-													
POLE	CAT#	TUBE	SPCR	CAP	STEPS		B2	В3	B4	B5	Hi	Н2	Н3	MW	ВK
ΑI	LS80A11	2A-5.5/58	5	133	0	6F	5F				4X	4			
											4XR				
A2	LS80A11	2A-5.5/58	5	133	0	6F	5F				4X	4			
											4XR				

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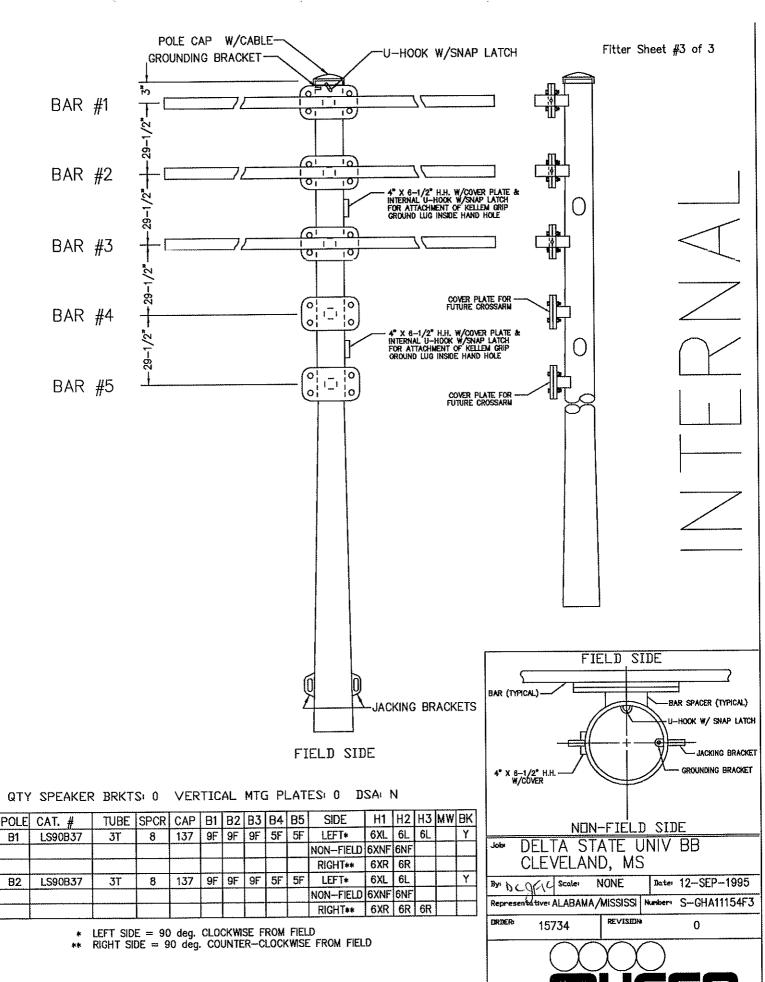
ORIENTATION DETAIL



DELTA STATE UNIV BB

CLEVELAND, MS

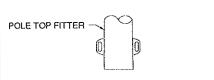




IGHTING.

INC.

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.



POLE	EPA	МН	BUR DPTH	HOLE DIA	CAT#	DIM 'A'	DIM 'B'
Cl	42.0	70°	12'	30"	LS70B15	NA	NA
C2	44.8	70'	12'	30"	LS70B16	NA	NA
DI	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

BALLAST HANGER
FIELD SIDE OF POLE
NON-FIELD SIDE OF POLE

4" HUB (TYPICAL)
FIELD SIDE OF POLE
NON-FIELD SIDE OF POLE ***COVER PLATE FOR FUTURE BALLAST BOX

4" x 6-1/2" HAND HOLE GROUND LUG INSIDE HAND HOLE

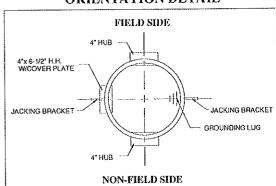
JACKING BRACKETS

PRE-STRESSED, CENTRIFIGUALLY

SPUN CONCRETE BASE

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ORIENTATION DETAIL



DELTA STATE UNIV BB

CLEVELAND, MS

 By: Dc Arr
 Scale: NONE
 Date: 12-SEP-1995

 Rep: ALABAMA/MISSISSI
 Nbr. S-GHA11154P1

 Order: 15734
 Rev: 0

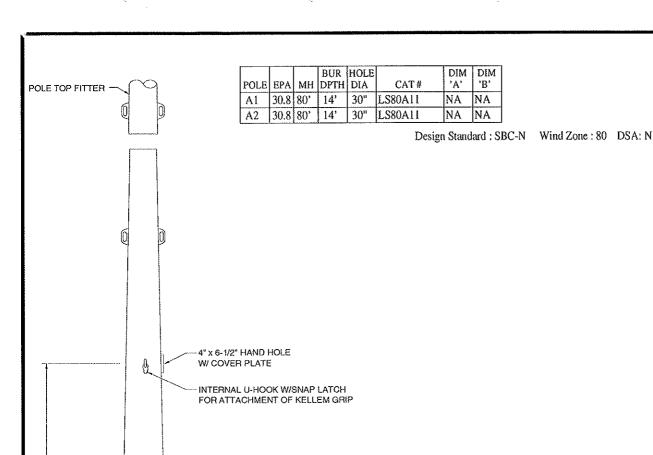


FIELD SIDE

0

8-9-1/2

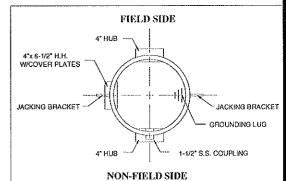
7.-9"



NOTES:

BURIAL DEPTHS ARE FOR 30" DIAMETER HOLES

ORIENTATION DETAIL



DELTA STATE UNIV BB

CLEVELAND, MS

By: DCSFIC Scale: NONE	Date: 12-SEP-1995
Rep: ALABAMA/MISSISSI	^{Nbr:} S-GHA11154P2
Order: 15734	Rev: O



NON-FIELD SIDE OF POLE

1-1/2" S.S. COUPLING

50.0

88

8'-9-1/2 7.9

FIELD SIDE

4" x 6-1/2" HAND HOLE 90 DEGREES FROM COUPLING U-HOOK, SNAPLATCH, AND

GROUND LUG INSIDE HAND HOLE

BALLAST HANGER FIELD SIDE OF POLE NON-FIELD SIDE OF POLE

4" HUB (TYPICAL) FIELD SIDE OF POLE

NON-FIELD SIDE OF POLE ***COVER PLATE FOR FUTURE BALLAST BOX

4" x 6-1/2" HAND HOLE GROUND LUG INSIDE HAND HOLE

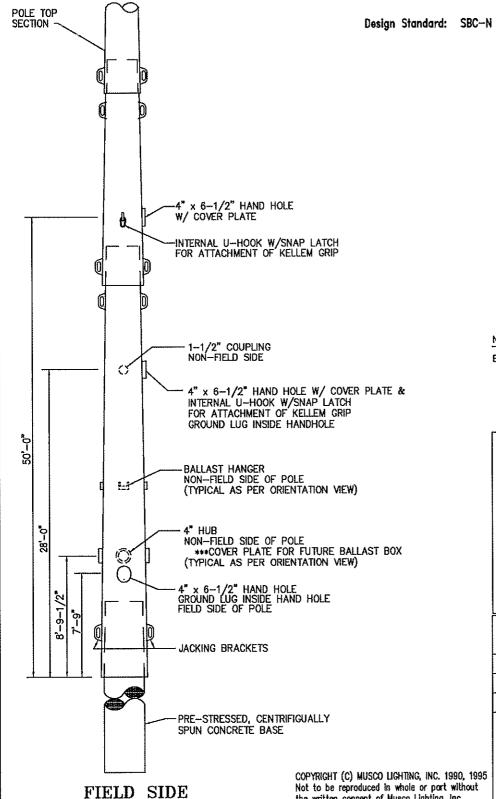
JACKING BRACKETS

PRE-STRESSED, CENTRIFIGUALLY

SPUN CONCRETE BASE

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POLE	EPA	мн	BUR DPTH	CATALOG #
B1	103.6	90'	18'	LS90B37
82	103.6	90'	18'	LS90B37

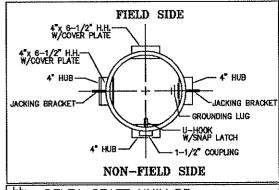


Wind Zone: 80 MPH

NOTES:

BURIAL DEPTHS ARE FOR 30" DIAMETER HOLES

ORIENTATION DETAIL

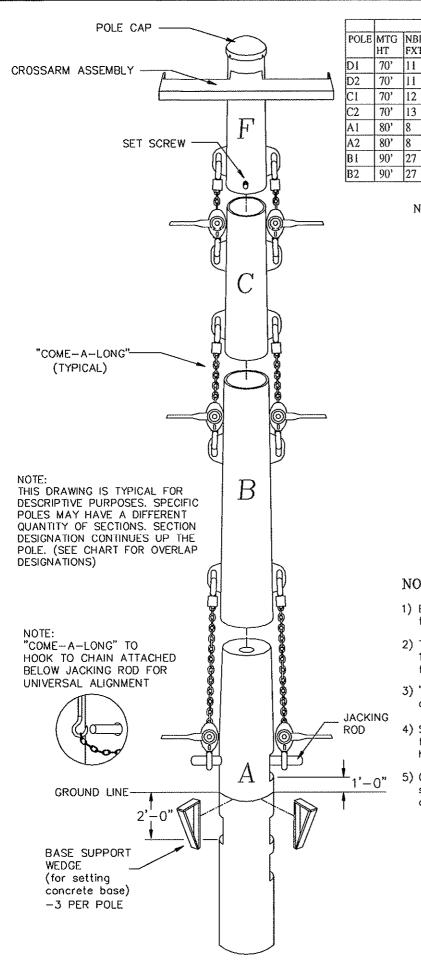


DELTA STATE UNIV BB CLEVELAND, MS

By: DCOFIC Scale: Date: 12-SEP-1995 NONE Number: Rep: ALABAMA/MISSISSI S-GHA11154P3 Order #: Rev: 15734 0



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		Heet#	O1	ŧ									
				WEIG	3HT-lbs			OVERLAP					
POLE	MTG HT	NBR FXT	CAT #	1	STEEL SHAFT		HOLE DPTH	BUR DPTH	BACK FILL	в-с	C-D	D-E	F
DI	70'	11	LSS70B11		1260	30"	12.0	12.0'	1.8yd	24"	NΑ	NΑ	13"
D2	70'	11	LSS70B11	2670	1260	30"	12.0'	12.0'	1.8yd	24"	NA	NA	13"
CI	70'	12	LSS70B12	2670	1260	30"	12.0'	12.0'	1.8yd	24"	NA	NΑ	13"
C2	70'	13	LSS70B13	2670	1260	30"	12.0'	12.0'	1.8yd	24"	NA	NΑ	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"
BI	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

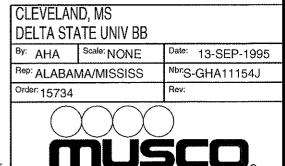
Backfill - concrete needed for backfill is 3000 PSI minimum strength Overlap dimensions may vary +-6" based on:

Shoot #1 of 1

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

NOTES:

- Before assembling, visually inspect poles to confirm that nothing will impede the slip fit.
- 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.
- "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.)
- CAUTION: Care must be taken when mating steel to steel sections to confirm linear alignment and coupling alignment.



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

Fixture Type: Lamp Type: Lumens:

SC-2 MZ 1500 watt Metal Halide MZ 155000

ile Number: late:
11154A 5-SEP-95

HORIZONTAL FOOTCANDLES

285

56.5

78.4

81.3 77.3 68.3 57.6 65.4 79.0 80.3 63.3

69.8

72.4

67.4 61.4 56.5

71.4 76.8 70.7 63.7

66.5

63.4 61.6

61.5

73.1

70.1

64.5

68.2 76.7

2

43.5 72.6

73.1 68.596

1 59.1

8

255

225

195

 $\bar{\omega}$

65.O 50.6

55.2

67.8

63.9

61.7

68.1

65.5

67.4

74.1

78.8 63.4

10,761

135

71.8

82.7

67.0

64.5

65.2

62.0

60.0

52.8

56.4

105

80.6

98.1

93.1 80.2 68.7

64.3

69.2

64.5

63.6

58.7

63.0

75

A

.0 99.0

87.2

03.8 101.5 91.7

79.8

72.6

74.9

69.9

65.5

335.0 55.8

ဂ္ဂ

<u>4</u>2

87.8

99.1

92.6

82.3

76.7

70.9

68.1

72.7

81.7

95'0,

20.0

165

'0.081

62.6

68.0

63.7

64.9

67.0

70.7

66.0

315

Average Tilt Factor: *** Maintenance Factor: ***Light Loss Factor:	Number of Luminaires: * KW Consumption:	Target Points: Average: Maximum: Minimum: Avg/Min: Max/Min:
actor: Factor: x ctor:	ninaires: tion:	Outfield 113 65.56 82.66 43.47 1.508 1.902
0.955 0.955	117 187.20	Infield 25 89.71 103.76 68.67 11.306 11.511

*Refer to amperage draw for electrical sizing

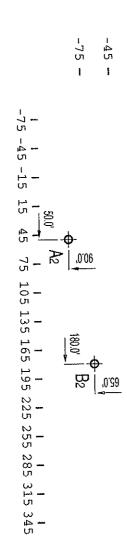
- **Maintenance factor = ambient temp. factor X voltage factor X ballast factor X lamp lumen depreciation X luminaire dirt depreciation(per IES Manual RP-6-88.p.92)
- ***Light Loss Factor(LLF)=average tilt factor
 X maintenance factor
- NOTE: Light level averages and uniformities are guaranteed by MUSCO. However, individual location measurements may vary

INSTALLATION REQUIREMENTS:
Results assume +-3% nominal voltage at load side of ballast box and poles located within 3' of design locations from computer predictions

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-ф = Pole Location SCALE IN FEET

9



-15

1

73.1

93.4

89.1 83.7

75.4 70.3

55.7

49.4

48.7

53.8

15

90.5

93.8

92.8

98.1

94.7

82.2

63.2

55.9

61.2

77.8

74.3

Pole location dimensions are relative to 3,0 reference point $\,\otimes\,$

Pole location dimensions are relative to 0,0 reference point $\,\otimes\,$

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

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

SC-2 MZ 1500 watt Metal Halide MZ 155000 11154A 5-SEP-95

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0		
2		
7	_	

HORIZONTAL FOOTCANDLES

,	Outfield	ln See
Auget rollies. Average: Maximum: Minimum: Avg/Min: Avg/Min:	52.44 66.13 34.78 1.508 1.902	71.77 83.00 54.94 1.306 1.511
Number of Luminaires: * KW Consumption:	minaires: tion:	117 187.20
Average Tilt Factor: ** Maintenance Factor: ***Light Loss Factor:	actor: Factor: x actor:	0.955 0.800 0.764

*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)

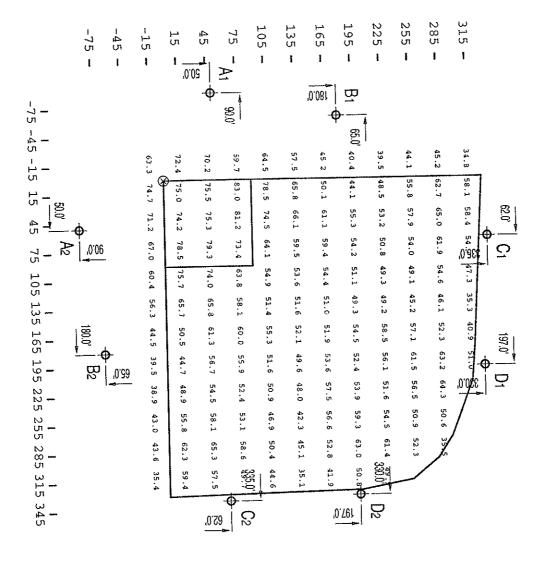
***Light Loss Factor(LLF)=average tilt factor X maintenance factor

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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0		+ = Pole
100	SCALE IN FEET	Pole Location
200		



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

Fixture Type: Lamp Type: Lumens:

SC-2 MZ 1500 watt Metal Halide MZ 155000 11154A 5-SEP-95

Date: File Number:

UARANTEED PERFORMANCE

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

*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

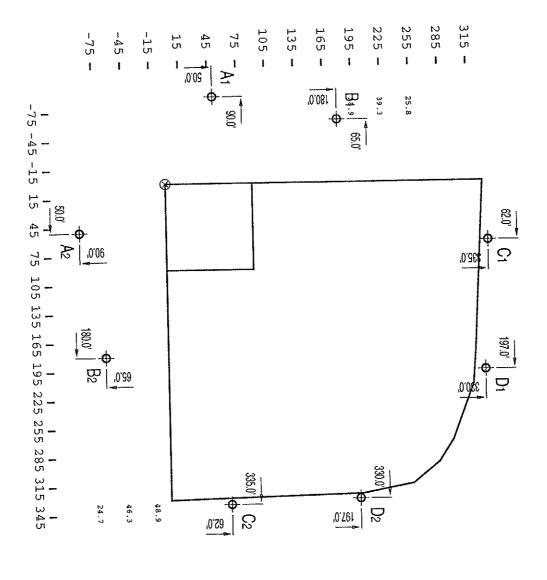
NOTE: Light level averages and uniformities are guaranteed by MUSCO. However, individual location measurements may vary

INSTALLATION REQUIREMENTS:
Results assume +-3% nominal voltage at load side of ballast box and poles located within 3' of design locations from computer predictions

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= Pole Location SCALE IN FEE

9



Pole location dimensions are relative to 0,0 reference point \otimes .

Pole location dimensions are relative to 0,0 reference point $\,\otimes\,$

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

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

SC-2 MZ 1500 watt Metal Halide MZ 155000 11154A 5-SEP-95

HORIZONTAL FOOTCANDLES

Target Points:
Average:
Maximum:
Minimum:
Avg/Min:
Avg/Min:
Max/Min: 6 28.52 39.13 19.77 1.443 1.980

Number of Luminaires: KW Consumption: 117 187.20

Average Tilt Factor:
** Maintenance Factor:
***Light Loss Factor: 0.936 0.800 0.749

**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)

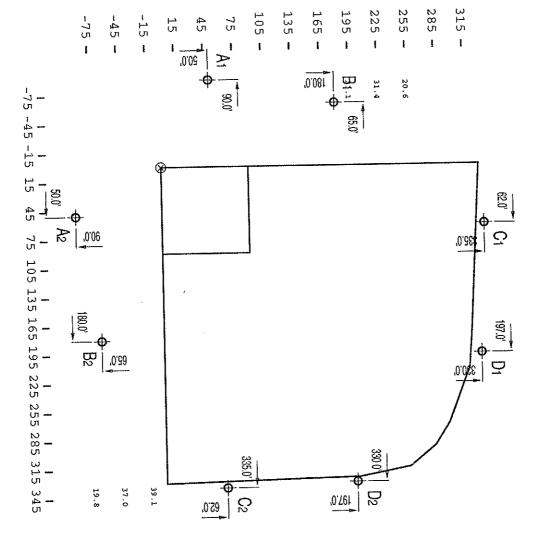
***Light Loss Factor(LLF)=average tilt factor X maintenance factor

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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ф = Pole Location SCALE IN FEET 9 200



*Refer to amperage draw for electrical sizing

	F GHA BAMA/	MALON						TION					
- 50	SCOI	ורוז צייז	. ביריים:	TC.							DUIT IT	ER NL	ָרוְי
EDUL!	ED 09	/25/	/95	PRODU	CED		SI	HIPPED			DE'TT'		
	PE L	NIII 17 /	equir s par	ed ts; 2	yea	STD/ FUSI rs lab	REM R ING Rec	quired	<u> </u>			FINIS LAMPS OSA A	on G Required Approval? N
[[智慧報題]	高麗 瀬 湖 (湖西南海西	[双度数测法	阿斯拉里	湖園粗淵淵	祖祖祖祖祖			医凝化性 机	HEP MAI foot that was a	- See 100 -	
ELD I	NFOR	ITAN	ON:							***********	DIIA CT	SCAN	
IELD						TFED	WATT 15	MWATT	LAMP MZ	480	PHASE 3	1115	4A
l De	ltaSt	BB		BB N	য 2		Τ÷		•				
1 1 1 1 1	A1 8 A2 8 C1 7 C2 D1 D2 B1	30 8 30 8 70 7 70 70 70	IX 2 8 8 12 13 11 11 27 27	1 1 1	2 2 1	2 1 1 1 1 4 4		1.2	<u>15</u>	3E 5E	MTC F F F F F F F F F	6 6 6 8	FG DWG 55RFL 55RFL 663RFL 664RFL 87RFL 87RFL 99955RFL
TOT	8		117	3	5	2 13							表 医 整 数 题 题 题 题 题 题 题 题 题
	医腹腹腹膜	開展開	西田田田田	(異類間度類	祖母四度	阿瓦阿拉西斯	関盟選盟22	阿阿萨阿阿	国際問題国	- 四西東河田	開 期 朗 純 玛 阜	CTAND	東京報道東道東西東洋東京 DARD = SBC-N
		FIC	NOITA	S:							ITI/		BOT-D
	SPEC:					EDA	CLASS	PLAT	STEP	CPLG	0	0.0	0.0
	TYP	FIN	MH	LEN	FIX	30 0	AOA	U				^ ^	0.0
POLE POL A1	TYP LS	G	80	80	8 8	30.8	A08 A08	0		0	0	0.0	
POLE A1 A2	TYP LS LS	G G		80 80 90	8 8 27	30.8 30.8 103.6	80A 80A 90B	0		0 0	0	0.0	0.0 0.0
OLE POL A1	TYP LS	9999	80 80 90 90	80 80 90 90	8 8 27 27	30.8 30.8 103.6 103.6	80A 80A 90B 90B	0 0		0 0 0	0 0 0	0.0 0.0 0.0	0.0 0.0 0.0
POLE A1 A2 B1 B2 C1	TYP LS LS LS LS	00000	80 80 90 90 70	80 80 90 90 70	8 8 27 27 12	30.8 30.8 103.6 103.6 42.0	80A 80A 90B 90B 70B	0		0 0 0 0	0 0 0	0.0 0.0 0.0	0.0 0.0 0.0 0.0
OLE POL A1 A2 B1 B2 C1 C2	TYP LS LS LS LS LS	000000	80 80 90 90 70	80 80 90 90 70	8 8 27 27	30.8 30.8 103.6 103.6 42.0 44.8	80A 80A 90B 90B 70B 70B	0 0 0 0		0 0 0 0	0 0 0 0	0.0 0.0 0.0 0.0	0.0 0.0 0.0
POLE A1 A2 B1 B2 C1 C2 D1	TYP LS LS LS LS LS	0000000	80 80 90 90 70 70	80 80 90 90 70 70	8 8 27 27 12 13 11	30.8 30.8 103.6 103.6 42.0 44.8 42.0	80A 80A 90B 90B 70B 70B 70B	000000		0 0 0 0 0	0 0 0 0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0
POLE A1 A2 B1 B2 C1 C2 D1	TYP LS LS LS LS LS	0000000	80 80 90 90 70 70	80 80 90 90 70 70	8 8 27 27 12 13 11	30.8 30.8 103.6 103.6 42.0 44.8 42.0	80A 80A 90B 90B 70B 70B 70B	000000	医医囊囊	0 0 0 0 0	0 0 0 0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0
POLE A1 A2 B1 B2 C1 C2 D1 D2	TYP LS LS LS LS LS LS		80 80 90 90 70 70 70	80 80 90 90 70 70 70	8 8 27 27 12 13 11	30.8 30.8 103.6 103.6 42.0 44.8 42.0	80A 80A 90B 90B 70B 70B 70B	000000	医 医 医	0 0 0 0 0	0 0 0 0	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0
POLE A1 A2 B1 B2 C1 C2 D1 D2	TYP LS LS LS LS LS		80 80 90 90 70 70 70	80 80 90 90 70 70 70	8 8 27 27 12 13 11	30.8 30.8 103.6 103.6 42.0 44.8 42.0 42.0	80A 80A 90B 90B 70B 70B 70B				0 0 0 0	0.0 0.0 0.0 0.0 0.0	

Order 08/07/95 Order# 15734 All profile information should be verified with final order information Revision Level: 3 Project# GHA11154 Project DELTA STATE UNIV BB ST/Prov MS Country USA TST ALABAMA/MISSISSI City CLEVELAND PRODUCTION = SOLD TO SCOTT ELECTRIC SHIPPED DELIVER NLT SCHEDULED 09/25/95 PRODUCED VERSION# 9
POLE TYPE LS
PLATFORMS NOT Required
FUSING Required FINISH G LAMPS Required OSA APPROVAL? N WARRANTY 7 years parts; 2 years labor 袒环搊滅迧陠熝鵛趤璅ズ譺棸躢浘厒踑閖潊甐嬔皷甋媙皷潊胐ગ氭藡潊澵盄澯胐揺詺胐潊荲趤潊詺飁闎閖潊۔ BROKERAGE REQUIRED: MISC: 娫惃顤聣漑榳ච睕睸篗甐蕸鶑篗魙篗寏篗氝篗頋懴睸燇皷贕籄媙蕸媙贕贕۔ PRODUCTION NOTES: No Production Info comments. 08/07/95 HOLSON 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

Detail is as follows:

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

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

ORDER-FIXTURE SPECIAL ENCLOSURE CONFIG

09/08/95 JKLEIN

NEVISION DEVEL: 3
Order 08/07/95 Order# 15734 All profile information should be verified with final order information Project# GHA11154 Project DELTA STATE UNIV BB ST/Prov MS Country USA TST ALABAMA/MISSISSI City CLEVELAND PRODUCTION = DELIVER NLT SOLD TO SCOTT ELECTRIC SHIPPED SCHEDULED 09/25/95 PRODUCED FINISH G VERSION# 9 LAMPS Required STD/REM R PLATFORMS NOT Required FUSING Required POLE TYPE LS OSA APPROVAL? N WARRANTY 7 years parts; 2 years labor 揻闣礛媙鄨譺揻萟媙蕸媙蕸媙竤媙竤媙竤媙竤 PRODUCTION NOTES: Enclosure configurations for the A1, A2, C1, C2, D1, & D2 poles are as follows: LOCATION: LOCATION: ***** POLE: ***** NON-FIELD SIDE **** ***************** (PROVIDING ENC) ************** 'A1' & 'A2' / 4P-4PX 4PX(3) / 6P-6PX 'C1'

/ 6P-4P-4PX(3) /

these additional 10 fixtures per pole:

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

09-08-95 Mailed to CWEBER, NMCCLEARY

09/13/95 Printed By AHATFIELD

[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

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

LOCATION:

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

′C2′

JFK

12SEP95

'D1' & 'D2' / 6P-6PX(5)

POLE: LOCATION:

4PX(3)

LOCATION:

Page 3

Revision Level: 3 Order 08/07/95 Order# 15734 All PROFILE information should be verified with final order information Project# GHA11154 Project DELTA STATE UNIV BB
TST ALABAMA/MISSISSI City CLEVELAND ST/Prov MS Country ST/Prov MS Country USA

PRODUCTION =

詋渱顁摋觬憰霚蓜闦顈ਡ贕鸖蛪湽潊蕠鶰胐懱嫇靎詺餢豿嫇賐懴ハ螇۔۔ 잸渱顁摋觬憰霚蓜闦顈ਡ뺁磶蛪湽潊蕠鶰胐懱嫇痬詺餢豿嫇賐懴胊螇۔۔

汳鄵潊糄閖ਡ覫傶贕葿葿贕贕蕸۔ 揼鄵潊糄閖ਡ覫傶贕腤腤贕贕葿葿贕媙蕸۔

SOLD TO SCOTT ELECTRIC SCHEDULED 09/25/95 PRODUCED SHIPPED DELIVER NLT

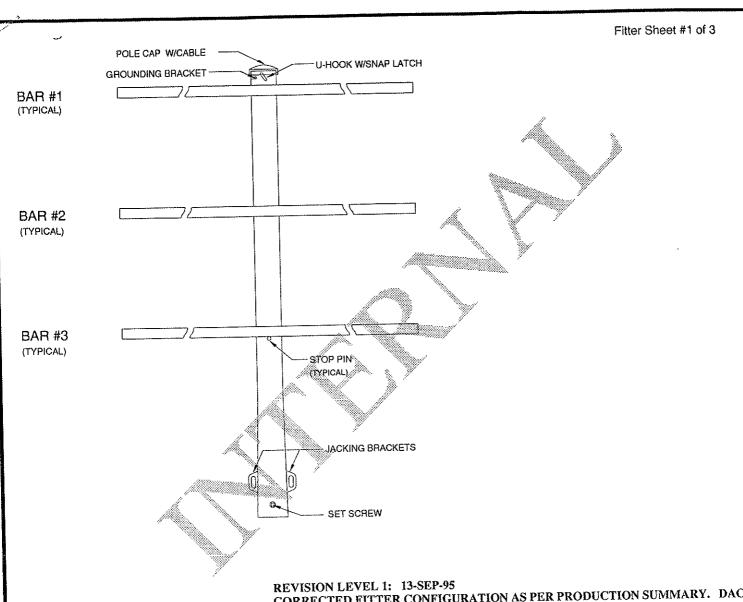
VERSION# 9
POLE TYPE LS
PLATFORMS NOT Required
FUSING Required
FUSING Required
OSA APPROVAL? N WARRANTY 7 years parts; 2 years labor

PRODUCTION NOTES:

CC:

WARRANTY NOTES:

No Warranty comments.



CORRECTED FITTER CONFIGURATION AS PER PRODUCTION SUMMARY. DAC

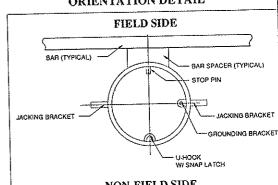
NOTE: ALL POLES HAVE FUTURE BALLAST BOXES ON NON-FIELD SIDE

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

POLE	CAT#	TUBE	SPCR	CAP	STEPS	Вl	B2	B3	B4	B5	HI	H2	Н3	MW	BK
	LS70B15	1 R -4.75/56	4	142	0	6F	6F	3F		·	6X	6	<u></u>		<u>L</u>
<u> </u>	2077010				1		ļ —				4XR	5)te	10 6	<u> </u>
C2	LS70B16	1 K -4.75/56	4	142	0	6F	6F	4F			4X	4	6	_	
	BO70BT0	- B									4XR	F	vt	20-	2_
DI	LS70B15	1A-4.75/56	4	142	0	8F	7F				6X	6			L
	2070220						Π				4XR	I	77	tu	Œ
D2	LS70B15	1 A-4.75/56	4	142	0	8F	7F				6X	6	L	<u> </u>	<u> </u>
	2010310	77		T	1				Ì		4XR	F	127	Jur	16

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ORIENTATION DETAIL



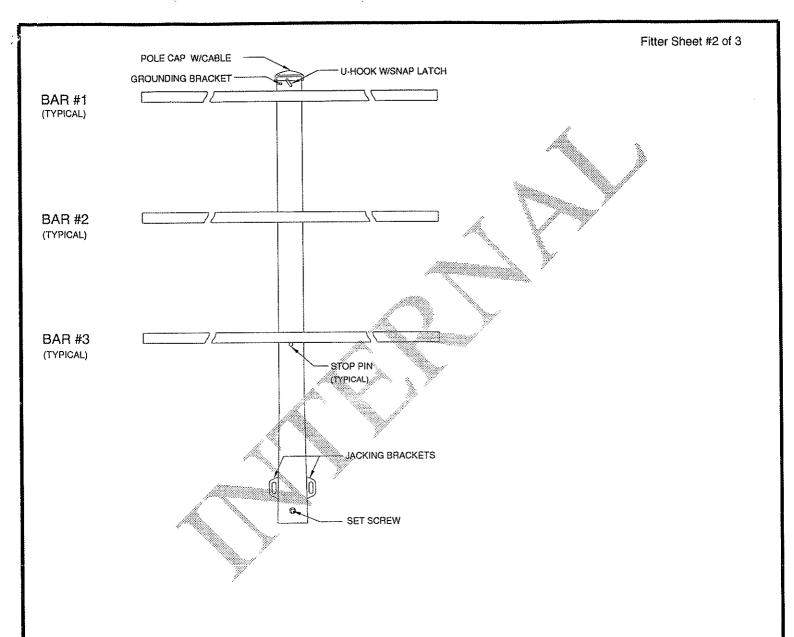
NON-FIELD SIDE

DELTA STATE UNIV BB

CLEVELAND, MS

I OTHER PERSONS	O, 1110						
BY: D COFIC	Scale: NONE	Dato: 12-SEP-1995					
	MA/MISSISSI	Nbr: S-GHA11154F1					
Order: 1573	4	Rev: 1					





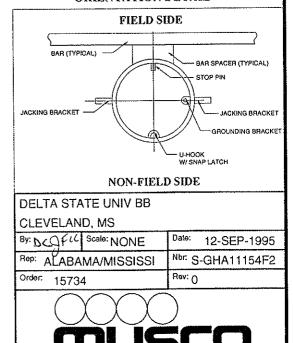
NOTE: ALL POLES HAVE FUTURE BALLAST BOXES ON NON-FIELD SIDE.

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

	·												·····		····
POLE	CAT#	TUBE	SPCR	CAP	STEPS	В1	B2	В3	B4	B5	HI	H2	H3	MW	
Al	LS80AII	2A-5.5/58	5	133	0	6F	5F				4X	4			
					<u> </u>		<u> </u>				4XR	F	iti	106	2
A2	LS80A11	2A-5.5/58	5	133	0	6F	5F				4X	4			
							Ī				4 XR	F	bt	DF	6

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ORIENTATION DETAIL



SPORTS-LIGHTING, INC.

Order: 15734 - Proj: GHA11154 - Rev # 0
DELTA STATE UNIV BB

HARNESSES

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	
	WH-88/7	
C1 12	WH-64/13	

V

HARNESSES Order: 15734 - Proj: GHA11154 - Rev # 0 DELTA STATE UNIV BB Harness # Pole 103-106 **C2** WH-64/9 LLB MUSCO 13 94,95+99-102 WH-64/13 LLB MUSCO WH-64/7 107-109 LLB MUSCO 13+15-78 **D1** WH-64/11 LLB MUSCO 11 64,66,65,99,71+72 WH-64/13 LLB MUSCO 8881+91-93 **D2** WH-64/11 11 77,80,83,83,85,87 WH-64/13 LLB MUSCO

Order: 15734 - Proj: GHA11154

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

HARNESSES

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

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

SC-2 MZ 1500 Watt Metal Halide MZ 155000 11154B 30-MAR-95 GHA11154 BBERRY

\$888555 <u>5</u> 555	POLE ID	Voltage:	Pole Locations:	Light Levels:	Field Dimensions:	Number of Luminaires: Number of Luminaires: KW Consumption: Maintenance Factor:	Average: Max/Min:	HORIZONT
80 80 80 80	MTG HT	ļ	ions:	s:	nsions: Q	Luminaires: nption: se Factor:	Outfield 88.39 2.239	HORIZONTAL FOOTCANDLES
14935355371	FIXTURES				MODIFIED	146 233.60 1.0	Infield 125.17 1.368 8	NDLES

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

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= Pole Location SCALE IN FEET 9

ф 90.03 113.3 111.9 126.5 105.5 136.2 127.8 115.9 114.8 119.3 98.6 71.0 62.2 130.2 126.1 129.8 133.6 133.8 116.2 89.3 29.7 129.9 122.2 17.1 111.7 105.2 86.6 36.9 134.1 117.8 100.9 90.5 90.2 38.0 129.9 130.5 2 006 R2 006 37.6 138.1 103.6 180.0° B2 79.0 74.0 79.8 73.6 77.5 71.8 83.8 94.1 89.8 84.8 82.0 66.3 79.9 95.3 67.6 92.1

87.9

,0'09

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65.Q

69.8

84.2

80.1

71.9

66.4

68.5

75.8

84.5 101.4 111.4 80.7

197.0

61.7

97.6

85.6

. 3**2**'0,

90.7

1970'

75.1

96.7

94.9

98.4 99.0 97.2 98.7 106.9 114.7 102.2

68.9

82.5

83.0

85.6

85.6

84.7 88.8 100.0 106.2 109.6 108.6

73.3

78.3

78.0 70.0 68.3

73.6 85.3 95.3 106.9 116.9

180.0

92.9

98.5 109.7

99.5

86.2

75.4

72.1

73.3 80.4 98.5 105.9 80.0

116 2

135.4 131.0 107.7 87.4 77.9

78.3

72.6

72.7

85.3

96.4

335.0

S

.0°Z9

Pole location dimensions are relative to 0,0 reference point \otimes .

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

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

SC-2 MZ 1500 Watt Metal Halide MZ 155000 11154B 30-MAR-95 GHA11154 BBERRY

PERFORMANCE

Average: 37.07
Max/Min: 1.621
Number of Poles:
Number of Luminaires:
KW Consumption:
Maintenance Factor: HORIZONTAL FOOTCANDLES Field Dimensions: Light Levels: Voltage: Pole Locations: POLE ID ZB222BZ MTG HT 37.07 1.621 88555588 MODIFIED FIXTURES 8 11 17.60 1.0 ±3855537

335.0

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,0.29

85. 0.

45.5

<u>D</u>2

,01261

29.8

,0'98

197.0

멏

180'0,

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= Pole Location SCALE IN FEE 100 200

,0.03 \mathbb{R} ф 90.0











30.2

38.2

48.3

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

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

SC-2 MZ 1500 Watt Metal Halide MZ 155000 11154B 30-MAR-95 GHA11154 BBERRY

	TUSTO . GUARANTEED PERFORMANC
1	MAN

ABC22118A	POLE ID	Voltage:	Pole Locations:	Light Levels:	Field Dimensions:	ber of ber of consultance	Average: Max/Min:	HORIZONT
88 88 88	MTG HT	ļ	ions:	<u>«</u>	nsions: OK	Poles: Luminaires: mption: ce Factor:	Outfield 70.71 2.239	HORIZONTAL FOOTCANDLES
1137 d d d d d d d d d d d d d d d d d d d	FIXTURES				Modified	146 233.60 0.8	Infield 100.14 1.368	NDLES

 $\vec{\omega}$

65.0' 55.8

57.1

67.4

64.1

57.5

53.2

54.8

60.7

67.6

81.1

89.1 64.5

49.6

58.6

62.6

62.4

56.0

54.6

58.8

68.3

76.3

85.5 93.6

330.0

 $\frac{1}{2}$

66.0

66.4

68.5

68.5

67.8

71.0

80.0 85.0 87.7

49.3

78.1

68.5

.0°98

62.8

33000,

60.1

77.3

75.9

78.7 79.2 77.8 78.9 85.5 91.7 81.7

180.0

78.8

87.8

79.6

68.9

60.3

57.7

58.6

64.3

78.8 84.8

64.0

80.5

09.5 107.3 94.2 80.7

72.4

72.2

63.2

58.9

67.0

75.3

90.5

03.8 103.9 97.7

93.7

89 4

84.1

69.3

63.8 67.8 76.3

335.0

04.1 100.9 103.8

06.9 107.1 93.0

71.4

62.0

65.6

73.7

61.5

95.0'

110.4 103.9 104.4

110.1 110.5

82.9

59.2

57.4

63.9

68.9

70.3

56.8

49.8 53.0 54.1 49.9

93.0

108.3 104.8

86.1

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62.3

62.7

58.1

58.2

68.3

77.1

63.6

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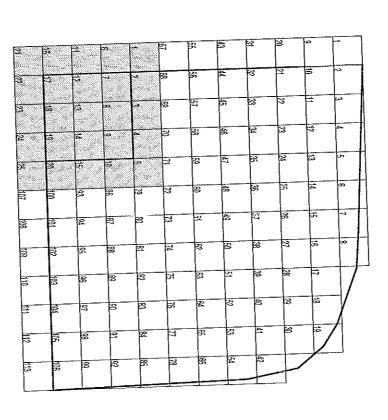
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0		Pole Location
100	SCALE IN FEET	ocation
200		

2 20.0 ф 8 106.3 101.2 £4.4 109.0 102.2 92.7 91.8 95.5

500 .0'06

FIELD READINGS DELTA STATE UNIV BB CLEVELAND, MS



Number of poles: Fixture type:

Initial lumens:

Outfield 113

Infield 25

Target Points: Average:

Maximum:

Vendor:

Fixture Type: SC-2 MZ 1500 Watt Metal Halide MZ Lamp Type: 1500 Watt Metal Halide MZ 155000 File Number: 11154B BARRY By: HORIZONTAL FC Outfield BEERRY By: 138.10 137.98 Minimum: 138.10 100.88 Average: 138.10 100.88 Minimum: 143 1.241 Avg/Min: 2.239 1.368 Number of Luminaires: 138.60 KW Consumption: 233.60

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SCALE IN FEET

100 200

Max/Min:

Minimum: Avg/Min:

Number of Luminaires:

KW Consumption:

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: Lamp Type: Lumens: File Number: Date:

SC-2 MZ 1500 watt Metal Halide MZ 155000 11154A 6-JUL-94





*Refer to amperage draw for electrical sizing

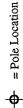
**Maintenance factor = ambient temp. factor X voltage factor X ballast factor X lamp lumen depreciation X luminaire dirt depreciation(per IES Manual RP-6-88,p.92)

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

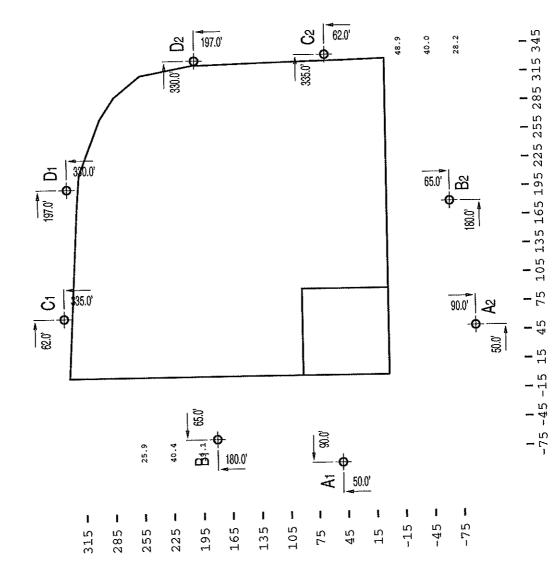
NOTE: Light level averages and uniformities are guaranteed by MUSCO. However, individual location measurements may vary from computer predictions

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

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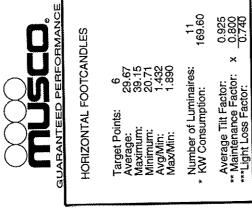


CLEVELAND, MS DELTA STATE UNIV BASEBALL 330/400/330 BASEBALL W/70' & 80' M.H. COMPUTER LIGHT SCAN - MAINTAINED FOOTCANDLES

NOTE: BULLPEN FIXTURES MAY NEED TO BE FIELD AIMED.

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

SC-2 MZ 1500 watt Metal Halide MZ 155000 11154A 6-JUL-94



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

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

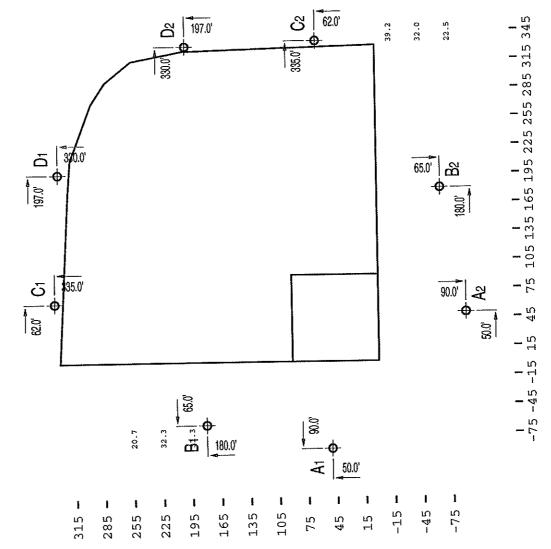
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= Pole Location ф

SCALE IN FEET

200

8



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

SC-2 MZ 1500 Watt Metal Halide MZ 155000 11154B 26-0CT-94 GHA11154 TSIZEMORE Fixture Type: Lamp Type: Lumens: File Number: Date: Project: By:

GUARANTEED PERFORMANCE

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

OK MODIFIED Field Dimensions:

Light Levels:

Pole Locations:

Voltage:

FIXTURES MTG HT POLE ID

#25454

88889999

8822288

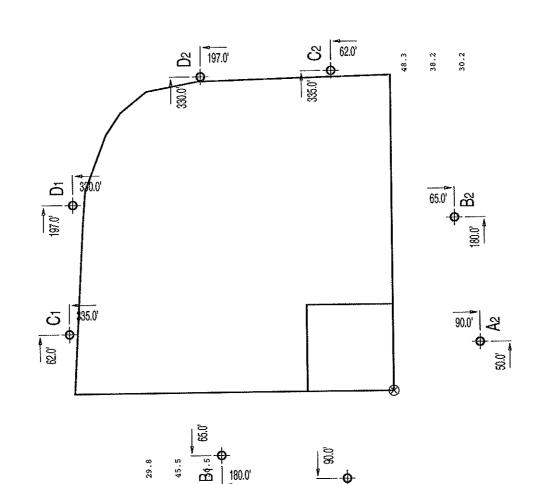
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= Pole Location

SCALE IN FEET





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

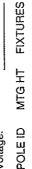
SC-2 MZ 1500 Watt Metal Halide MZ 155000 11154B 26-0CT-94 GHA1154 TSIZEMORE Fixture Type: Lamp Type: Lumens: File Number: Date: Project:













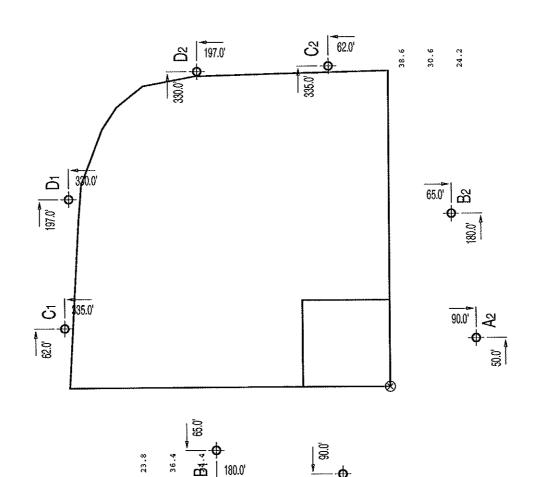
1264444 88222288

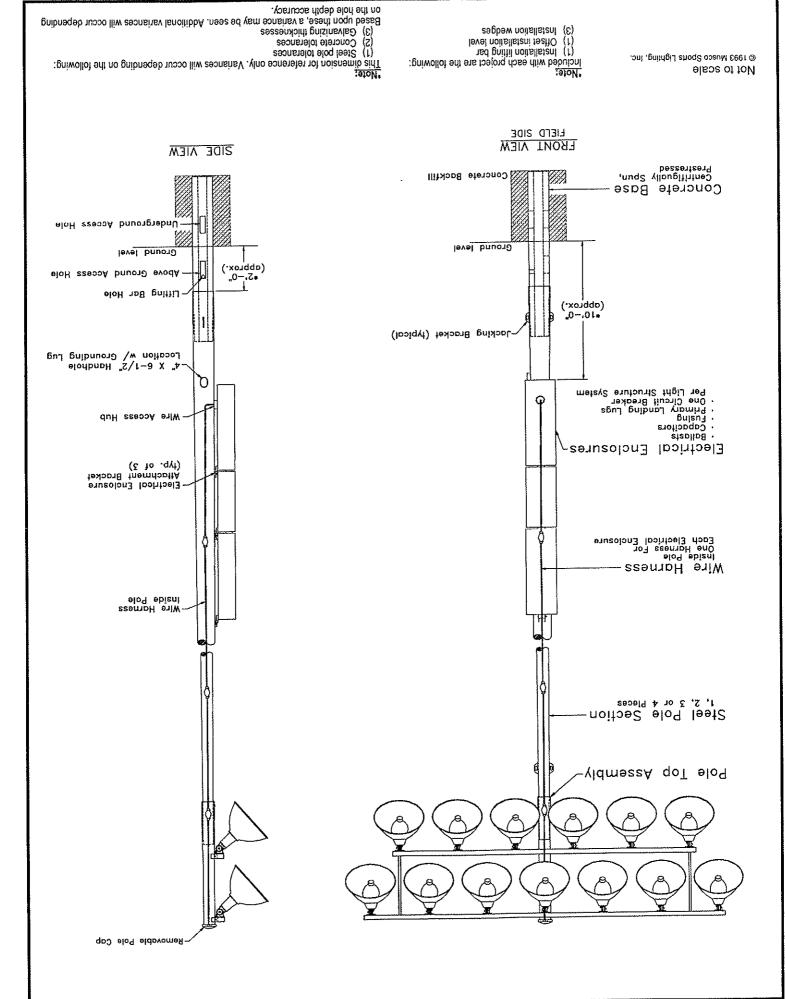
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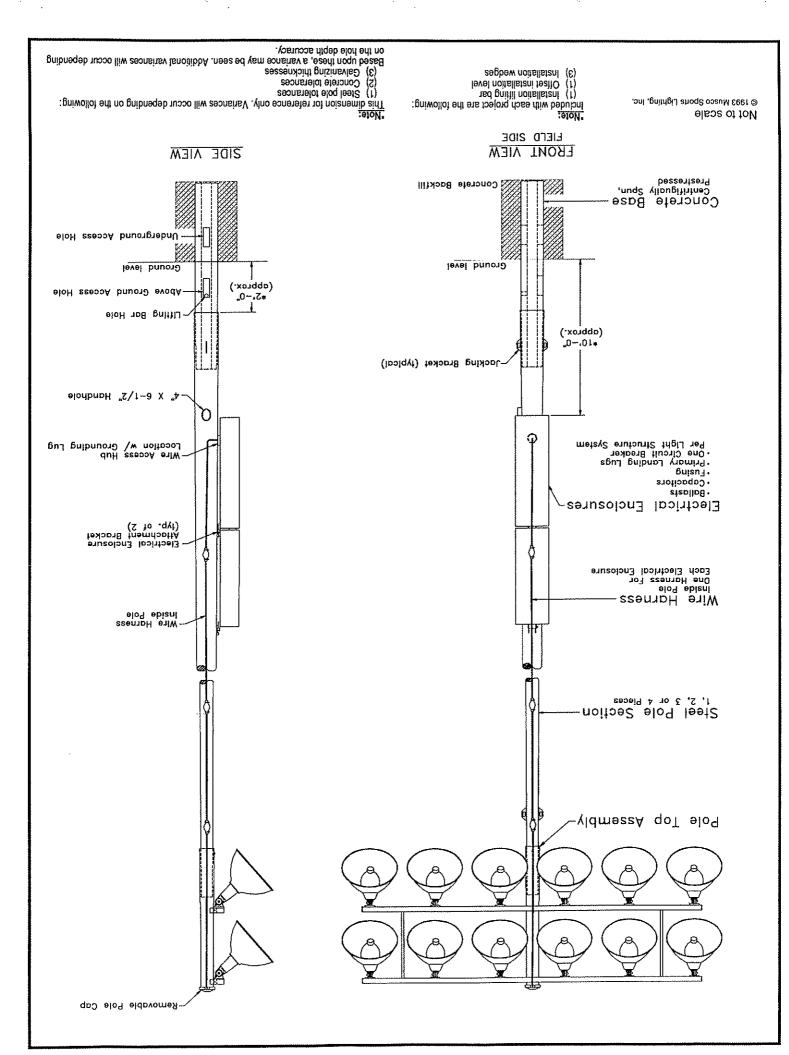


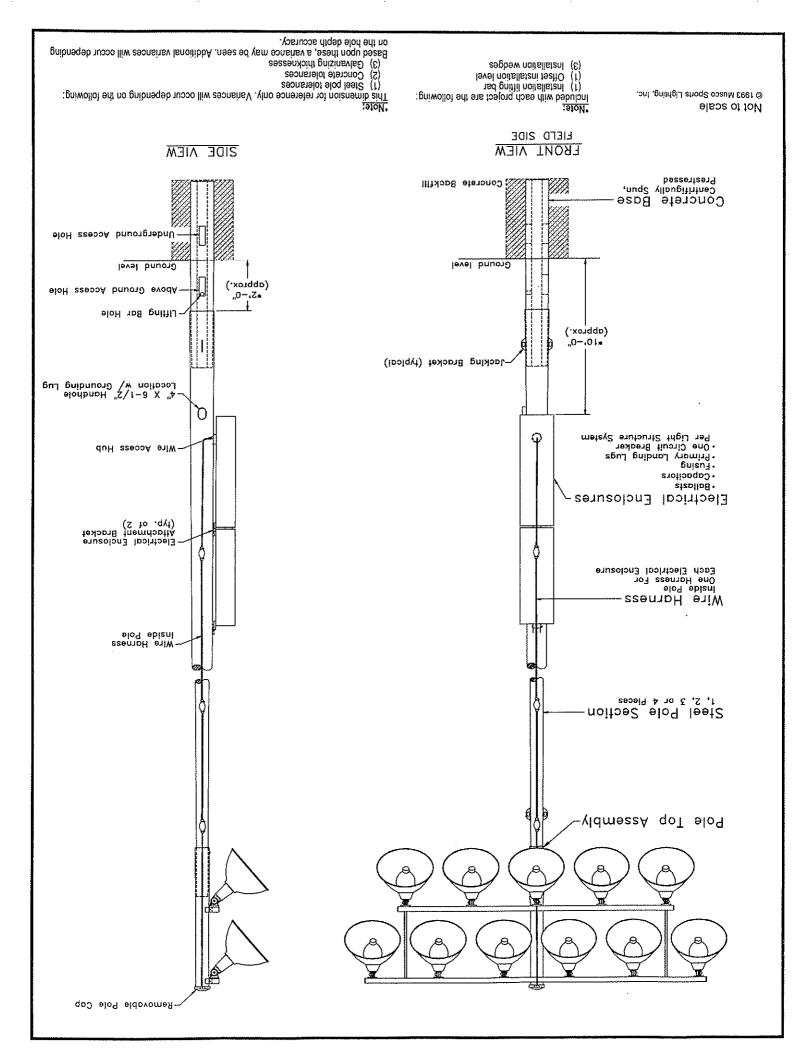








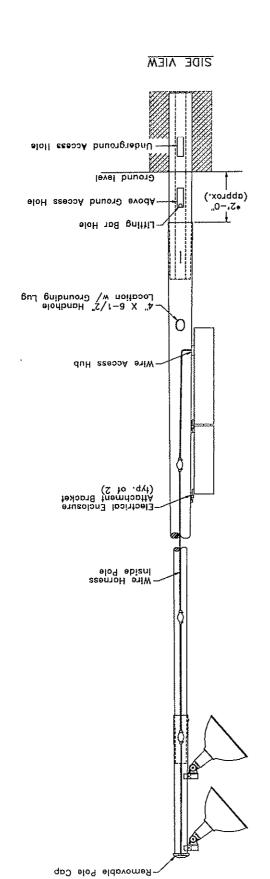




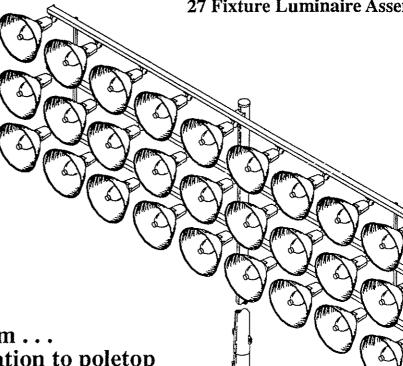
*Note: Included with each project are the following: (1) Installation litting bar (1) Offeet installation level (2) Installation wedges © 1993 Musco Sports Lighting, Inc. Not to scale LIEFD SIDE **ERONT VIEW** Concrete Backfill Centrifigually Spun, Prestressed Couclete Base level bnuond (approx.) .0-.01. nacking Bracket (typical) Capacitors
• Fusing
• Primary Landing Lugs
• One Circuit Breaker
• Per Light Structure System stabliag. Electrical Enclosures-Each Electrical Enclosure Wire Harness. Inside Pole One Harness For Steel Pole Section Pole Top Assembly

ou the hole depth accuracy. Based upon these, a variance may be seen. Additional variances will occur depending

•Note:
This dimension for reference only. Variances will occur depending on the following:
(1) Steel pole tolerances
(2) Concrete tolerances
(2) Concrete tolerances
(3) Calvanizing thicknesses



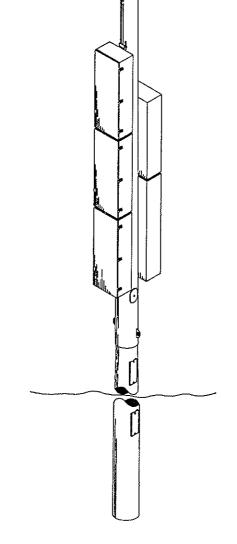
Light-Structure System 27 Fixture Luminaire Assembly



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



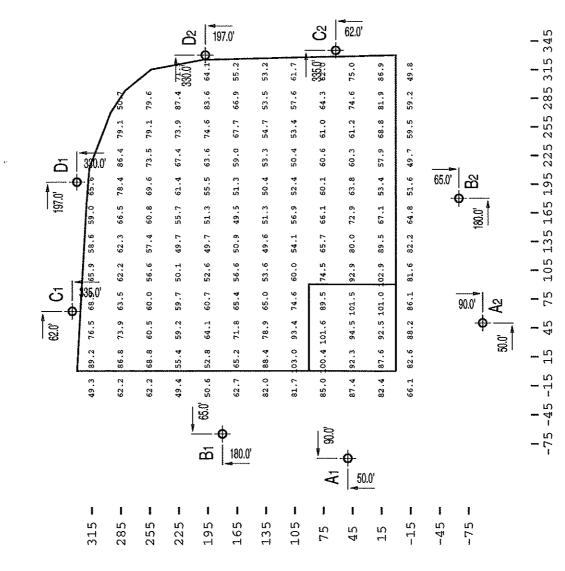


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Light-Structure System is protected by one or more of the following U.S. patents: 4725934, 4190881, D254694, 4374407, D257891, 4729077, 4450507, 4816974, 4947303, 4994718, 5016150, 5075828, 5134557, 5161883.
Canada: 1114798, "Rd" 1992 Musco #70479. Other patents pending.

Not to scale

CLEVELAND, MS DELTA STATE UNIV BASEBALL 330/400/330 BÁSEBALL 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
MaxMin: 1.292 1.469
MaxMin: 1.292 1.469
MaxMin: 1.818 1.718

Number of Luminaires: 106

** Ww Consumption: 169.60

Average Tilt Factor: 1000

***Light Loss Factor: 0.942

***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

Kesults assume +-3% nominal voltage at los side of ballast box and poles located within 3° of design locations
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CLEVELAND, MS DELTA STATE UNIV BASEBALL 330/400/330 BÁSEBALL W/70' & 80' M.H. COMPUTER LIGHT SCAN - MAINTAINED FOOTCANDLES

SC-2 MZ 1500 watt Metal Halide MZ 155000 11154A 6-JUL-94

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

NOTE: BULLPEN FIXTURES MAY NEED TO BE FIELD AIMED.

315

285

255

225

195

165

135

105

75

45

-15

15

~45

-75

62.0 197.0' ద 335.0 51.3 42.5 49.4 0.09 69.5 39.9 38,0 44.1 8.99 69.9 53.5 42.8 46.1 65.5 63.7 51.4 47.6 47.4 58 63.3 63.2 59.2 59.6 54.1 43.7 42.7 48.8 55.1 ٥. 6 €9.1 58.8 53.9 50.9 47.3 42.6 40.3 48.5 48.3 46.3 41.3 39.7 330.0 62.7 55.7 49.1 44.4 41.1 40,3 41.9 48.1 51.0 42.7 65.0' മ് 197.0 φ 53.2 48.6 44.5 41.0 45.5 41.1 52.9 58.3 53.7 51.9 180.0 39. 49.8 45.9 39.8 39.8 40.7 39.7 43.3 52.5 64.0 71.6 65.8 74.3 49.7 45.3 40.1 42.1 45.3 48.0 59.6 65.3 42.9 82.3 ပ 50.8 47.8 48.0 48.6 52.3 52.0 59.7 71.6 81.2 80.8 68.3 90.0 φ 59.1 57.4 70.6 48.4 47.4 51.3 63.1 74.7 81.3 75.6 74.0 62.0 52.2 66.1 5.69 55.0 44.3 42.2 70.7 82.4 80.3 73.8 70.1 40.5 52.9 6.69 85.0 98 ф ద 180.0 Ā 50.0 ı ŧ ŧ ı ŧ ı 1 ı ı ı ı ١ ŀ

GUARANTEED PERFORMANCE 25 70.52 82.42 47.99 1.469 1.718 HORIZONTAL FOOTCANDLES
Outfield Infield 169.60 0.942 0.800 0.753 × Number of Luminaires: KW Consumption: Average Tilt Factor:
** Maintenance Factor:
***Light Loss Factor: Target Points: Average: Maximum: Avg/Min: Max/Min: Minimum:

*Refer to amperage draw for electrical sizing

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

***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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75

45

L)

5

-45

SCALE IN FEET 100 = Pole Location φ

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

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

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

TEED PERFORMANCE

%800000BA	POLE ID	Voltage:	Pole Locations:	Light Levels:	Field Dimensions:	Average: 88.3 Away/Min: 2.23 Max/Min: 70 Poles: Number of Luminaire KW Consumption: Maintenance Factor:	HORIZON:
8887777888	MTG HT		ions:	s:	nsions:	Outfield Rage: 88.39 Whin: 2.239 mber of Poles: mber of Luminaires: Consumption: ntenance Factor:	HORIZONTAL FOOTCANDLES
137655531	FIXTURES				MODIFIED	Infield 125.17 1.368 8 146 233.60 1.0	NDLES

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

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= Pole Location SCALE IN FEET

100

		,0'	09	₹									
			φ-				180.0	쯔					
				90.0				S25	Ä				
	105	132.9	126.5	113.3	111.9	116.2	92.9	65.0' 69.8	L 61.9	68.9	75.1	61.7	
**	;, ⊢ (s	λ					_						T
· CD	36.2	38.0	30.2	29.7	36.9	35.4	98.5	71.4	73.3	82.5	96.7	97.6	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	127.8	.38.0 129.9 130.5	30.2 126.1 129.8	129.9	134.1	35.4 131.0 107.7	98.5 109.7	84.2	78.3	83.0	94.9	85.6	62.0
90.0'	105.5 136.2 127.8 115.9 114.8 119.3	130.5		122.2	134.1 117.8 100.9		99.5	80.1	78.0	85.6	98.4	85 0'96 90.7	<u> </u>
	114.8	37.6	33.6	17.1	100.9	87.4	86.2	71.9	70.0	85.6	99.0	90.7	-i
	119.3	.37.6 138.1 103.6	33.6 133.8 116.2	17.1 111.7 105.2	90.5	77.9	75.4	66.4	68.3	84.7	97.2	78.4	
≅8.0 •	98.6	103.6	116.2	105.2	90.2	78.3	72.1	68.5	73.6	88.8	98.7	76.9	197
₩ 0.28	71.0	74.0	89.3	86.6	79.0	72.6	73.3	75.8	85. ₃	100.0:	98.7 106.9 114.7 102.2	1	97.0
,	62.2	71.8	77.5	79.8	73.6	72.7	80.4	84.5	95.3	106.2	114.7	10.0gE	므
	66.3	79.9	82.0	84.8	83.8	85.3	98.5	101.4 111.4	106.9	88.8 100.0 106.2 109.6 108.6	102.2		
	67.6	86.2	92.1	95.3	94.1	96.4	105.9		116.9	108.6	<i>"</i>		
	62.4	87.9	76.8	335.J'	89.8	79.5	80.0	80.7	38.0	_/	,		
			62.0'	 හි 	ï		'0.7	Τ.	Ş				

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

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

SC-2 MZ 1500 Watt Metal Halide MZ 155000

11154B 26-OCT-94 GHA11154 TSIZEMORE

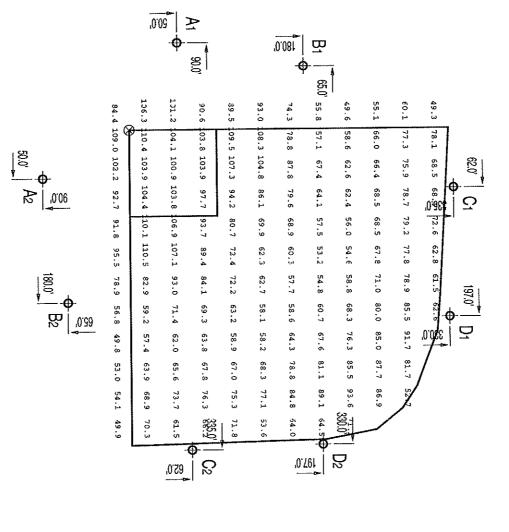
ARANTEED PERFORMANCE

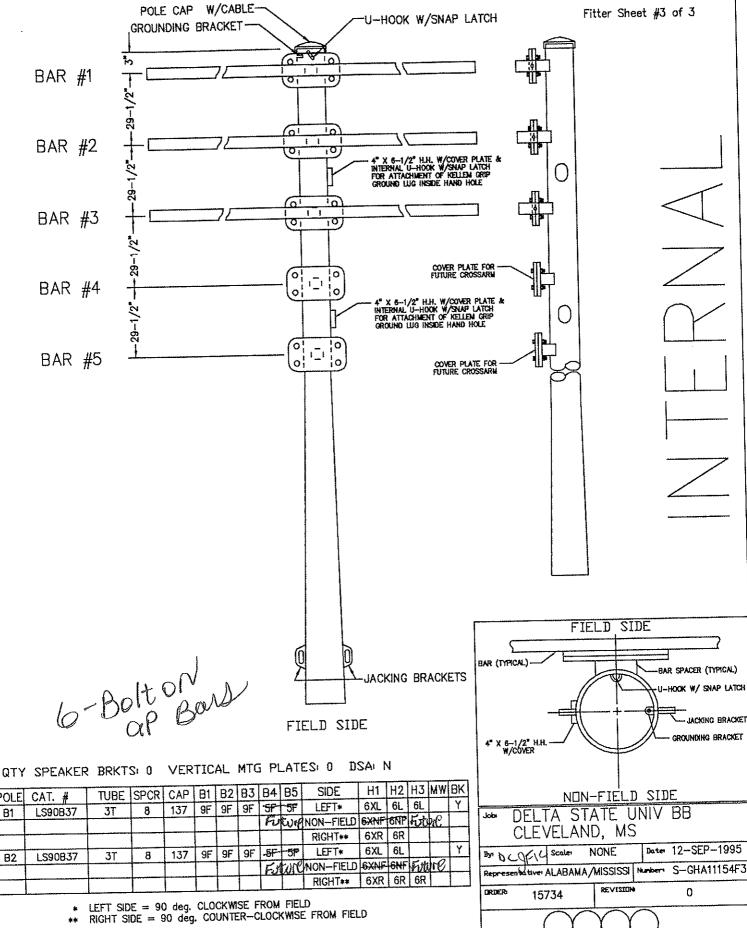
<u> </u>	A1	POLE ID	Voltage:	Pole Locations:	Light Levels:	Field Dimensions:	Number of Luminaire Number of Luminaire KW Consumption: Maintenance Factor:	· · · ·	HORIZON
888777788 888	80	MTG HT	1	tions:	<u>is:</u>	ensions:	lumber of Fores: lumber of Luminaires: W Consumption: laintenance Factor:	Outfield 70.71 2.239	HORIZONTAL FOOTCANDLES
±37555555	}	FIXTURES				MODIFIED	146 233.60 0.8	Infield 100.14 1.368	NDLES

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0		# HO]
100	SCALE IN FEET	= Pole Location
200		





INC.

IGHTING,

POLE

B1

B2

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