SECTION 905 -- PROPOSAL (CONTINUED)

I (We) hereby certify by digital signature and electronic submission via Bid Express of the Section 905 proposal below, that all certifications, disclosures and affidavits incorporated herein are deemed to be duly executed in the aggregate, fully enforceable and binding upon delivery of the bid proposal. I (We) further acknowledge that this certification shall not extend to the bid bond or alternate security which must be separately executed for the benefit of the Commission. This signature does not cure deficiencies in any required certifications, disclosures and/or affidavits. I (We) also acknowledge the right of the Commission to require full and final execution on any certification, disclosure or affidavit contained in the proposal at the Commission's election upon award. Failure to so execute at the Commission's request within the time allowed in the Standard Specifications for execution of all contract documents will result in forfeiture of the bid bond or alternate security.

Bidder acknowledges receipt of and has added to and made a part of the proposal and contract documents the following addendum (addenda):

ADDENDUM NO.	1	DATED	7/18/2025	ADDENDUM NO.		DATED	
ADDENDUM NO	2	DATED	7/29/2025	ADDENDUM NO.		DATED	
ADDENDUM NO		DATED		ADDENDUM NO.		DATED	

Number	Description
1	Postponed til July 31, 2025 Letting; Amendment EBSx Download Required.
2	Revised Table of Contents; Revised Advertisement; Revised NTB No. 7022; Added SP 907-683-1; SP 907-683-5 replaces SP 907-683-2; Revised Bid Items; Amendment EBSx Download Required.

TOTAL ADDENDA: 2
(Must agree with total addenda issued prior to opening of bids)

Respectfully Submitted,

DATE _____

_____
Contractor

BY _____
Signature

TITLE _____

ADDRESS _____

CITY, STATE, ZIP _____

PHONE _____

FAX _____

E-MAIL _____

(To be filled in if a corporation)

Our corporation is chartered under the Laws of the State of _____ and the names, titles and business addresses of the executives are as follows:

_____
President Address

_____
Secretary Address

_____
Treasurer Address

The following is my (our) itemized proposal.

CRP-0059-02(121)/ 109845301000

Jones County(ies)

Revised 01/26/2016

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
TABLE OF CONTENTS

PROJECT: CRP-0059-02(121)/109845301 - Jones

907-703-2	Gradation
907-705-1	Stone Riprap
907-707-3	Joint Materials
907-711-2	Plain Steel Wire
907-712-1	Fence and Guardrail
907-714-3	Miscellaneous Materials
907-718-1	Timber and Dimension Lumber
907-720-3	Pavement Marking Materials
907-721-4	Materials for Signing

Section 905 - Proposal, Proposal Bid Items, Combination Bid Proposal
Certification of Performance - Prior Federal-Aid Contracts
Certification Regarding Non-Collusion, Debarment and Suspension
SAM.GOV Registration and Unique Entity ID
Section 902 - Contract Form
Section 903 - Contract Bond Forms
Form -- OCR-485

(REVISIONS TO THE ABOVE WILL BE INDICATED ON THE SECOND SHEET
OF SECTION 905 AS ADDENDA)

07/28/2025 03:10 PM

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 901 - ADVERTISEMENT

Electronic bids will be received by the Mississippi Transportation Commission at 10:00 o'clock A.M., Thursday, July 31, 2025, from the Bid Express Service and shorty thereafter publicly read in the Construction Division For:

Upgrades & Repairs to the High & Low Mast Lighting System on I-59 from 0.65 miles south of MS 15 / 16th Avenue to 0.4 miles north of US 84 East / Chantilly Street, known as Federal Aid Project No. CRP-0059-02(121) / 109845301 in Jones County.

The attention of bidders is directed to the Contract Provisions governing selection and employment of labor. Minimum wage rates have been predetermined by the Secretary of Labor and are subject to Public Law 87-581, Work Hours Act of 1962, as set forth in the Contract Provisions.

The Mississippi Department of Transportation hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, sex, age, disability, religion or national origin in consideration for an award.

The award of this contract will be contingent upon the Contractor satisfying the DBE requirements.

The specifications are on file in the offices of the Mississippi Department of Transportation.

Contractors may request permission to bid online at http://shop.mdot.ms.gov at no cost. Upon approval, Contractors shall be eligible to submit a bid using Bid Express at http://bidx.com. Specimen proposals may be viewed and downloaded online at no cost at http://mdot.ms.gov or purchased online at http://shop.mdot.ms.gov at a cost of Ten Dollars ($10.00) per proposal plus a small convenience fee. Cash or checks will not be accepted as payment.

Bid bond, signed or countersigned by a Mississippi Agent or Qualified Nonresident Agent, with Power of Attorney attached, a Cashier's check or Certified Check for five (5%) percent of bid, payable to STATE OF MISSISSIPPI, must accompany each proposal.

The attention of bidders is directed to the provisions of Subsection 102.07 pertaining to irregular proposals and rejection of bids.

BRAD WHITE
EXECUTIVE DIRECTOR

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SECTION 904 - NOTICE TO BIDDERS NO. 7022 **CODE: (SP)**

DATE: 07/29/2025

SUBJECT: Scope of Work

PROJECT: CRP-0059-02(121) / 109845301 -- Jones County

The contract documents do not include an official set of construction plans but, by reference, include some Standard Drawings when so specified in a Notice to Bidders entitled, "Standard Drawings".

Work on this project shall consist of upgrades and repairs to the high mast and low mast lighting systems along I-59 from 0.65 miles south of MS 15 / 16th Avenue to 0.4 miles north of US 84 East / Chantilly Street

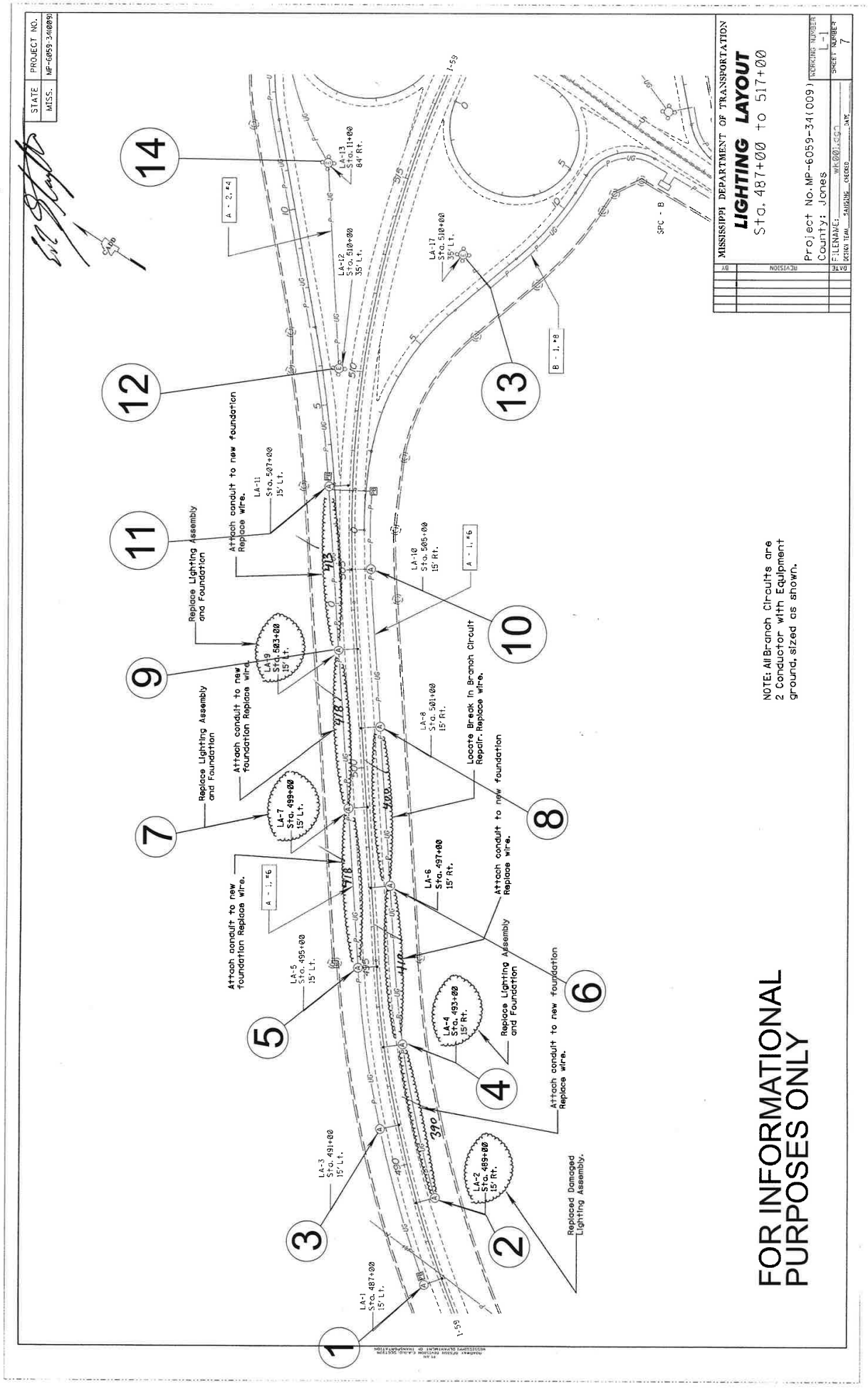
Upgrades will include: replacing existing high mast and low mast lighting assemblies with new LED assemblies, replacing existing photo cells with new photo cells, constructing new pole foundations and installing new poles as noted, remove and replace existing secondary power controller, install new pull box, repair broken pole door, install new reflective material for high mast lock system, and repairing high mast lowing devices. This work is located along I-59 in Jones County from 0.62 miles south of 16th Avenue to 0.42 miles north of US 84E with some lighting fixtures located on side roads, exit ramps, and underpasses.

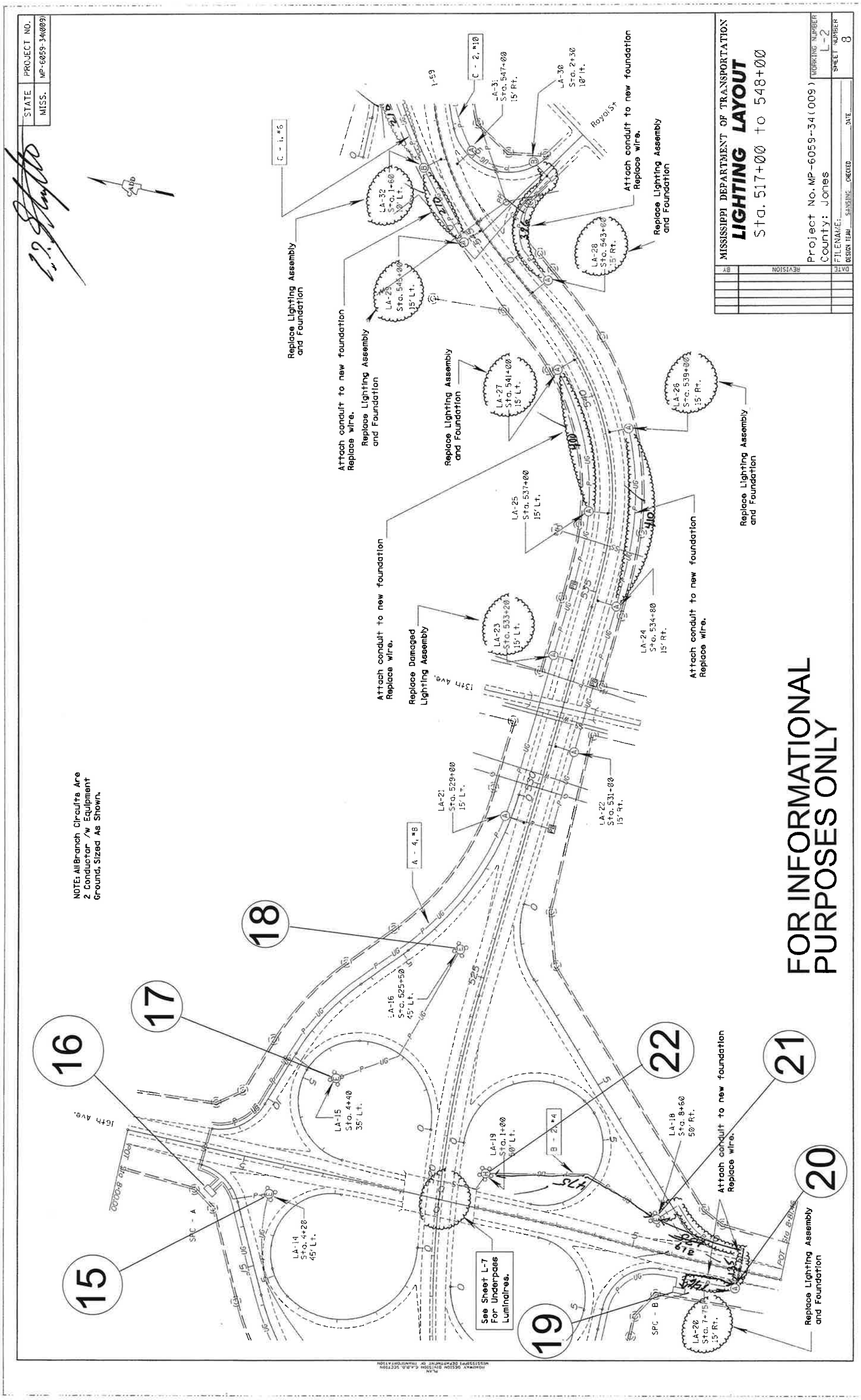
Salvaged equipment shall become property of the Contractor.

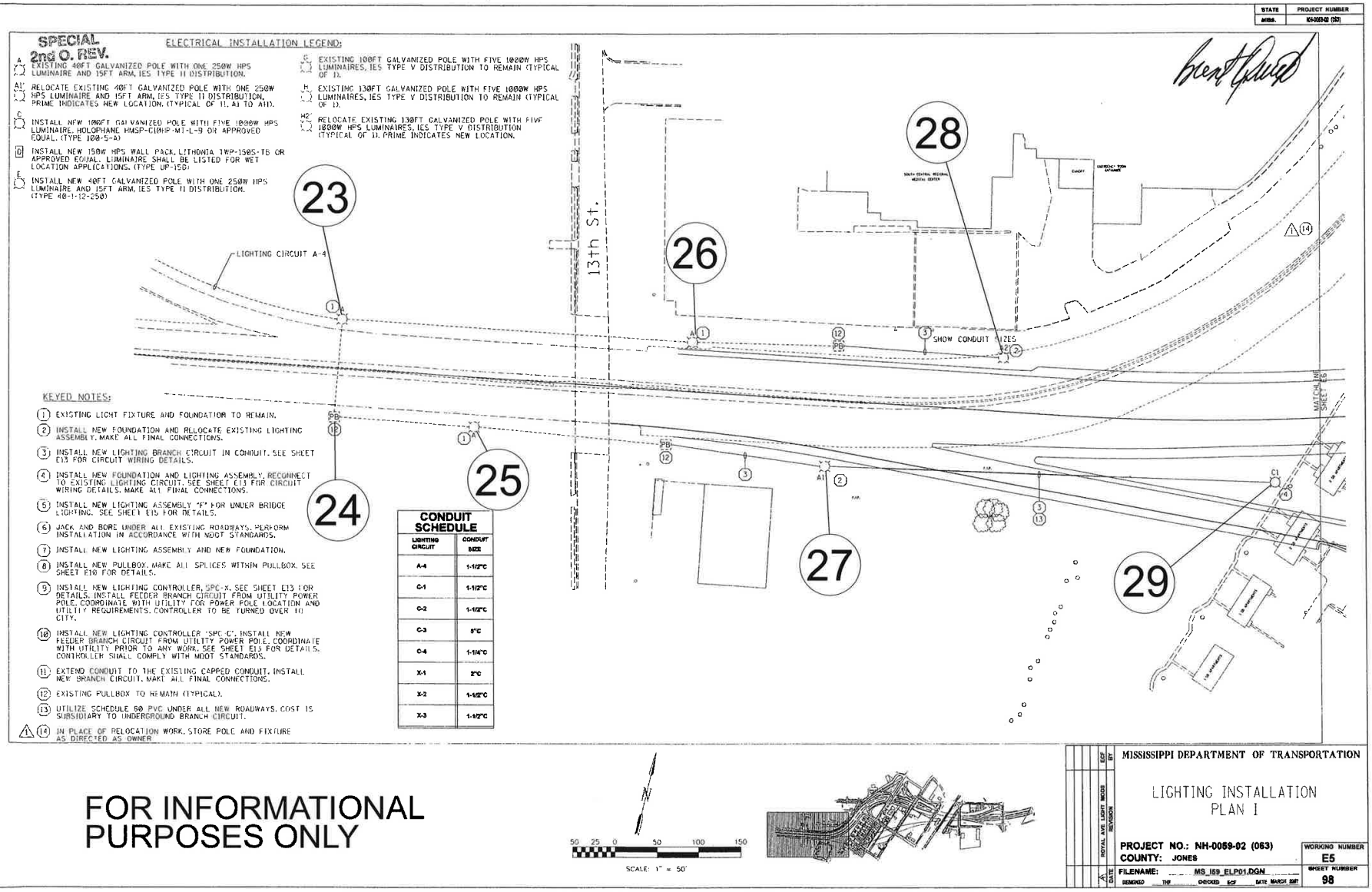
The following items of work shall be included in the pay items bid.

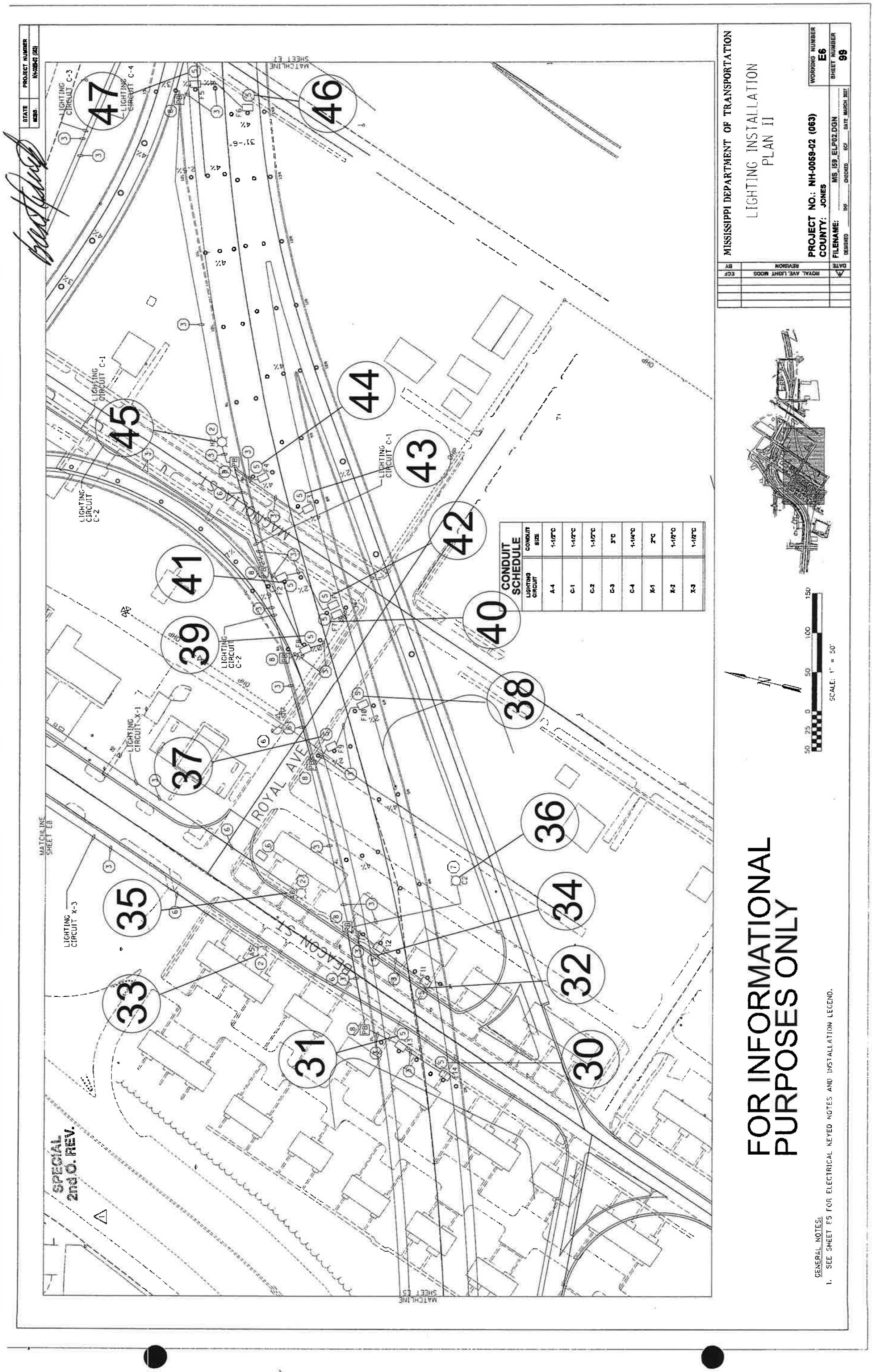
1. Installation of new reflective material on all high mast lock systems. Reflective material shall enable ground level visual distinction between the locked and unlocked positions of the high mast fixtures. New reflective material shall be placed on all high mast assemblies within the project limits.
2. Installation of new test outlet. New test outlets shall be installed on high mast assemblies as noted. New test outlets shall allow power testing to be done with the high mast fixture in the lowered position.
3. Replacement of photo cell. Existing photo cells shall be replaced where noted. Existing non-functional photo cells shall be replaced with new fully functional photo cells.
4. Repair broken high mast pole door. Any high mast pole doors shall be replaced.

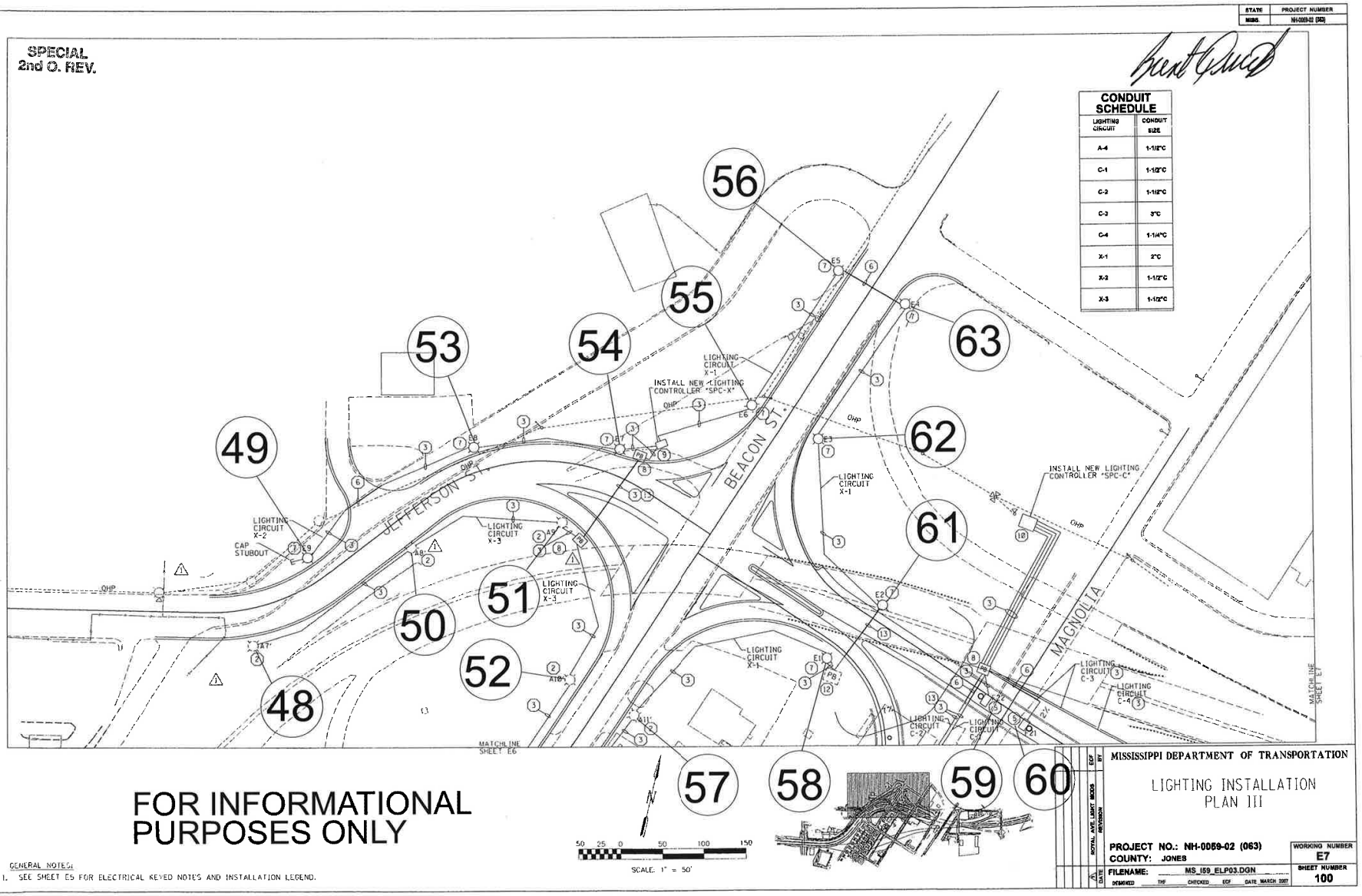
The Contractor shall erect and maintain construction signing and provide all signs and traffic handling devices necessary to safely maintain traffic around or through the work areas in accordance with the Traffic Control Plan. Payment shall be included in the price bid for pay item 907-618-A: Maintenance of Traffic.


STATE MISS.
PROJECT NO. MP-6059-34(009)
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
LIGHTING LAYOUT
Sta. 487+00 to 517+00
Project No. MP-6059-34(009)
County: Jones
WORKING NUMBER L-1
SHEET NUMBER 7
FILENAME: wlk001.dgn
DESIGN TEAM SAUSING CHECKED DATE
REVISION BY
NOTE: All Branch Circuits are 2 Conductor with Equipment ground, sized as shown.
FOR INFORMATIONAL PURPOSES ONLY
LA-1 Sta. 487+00 15' Lt.
LA-2 Sta. 489+00 15' Rt.
LA-3 Sta. 491+00 15' Lt.
LA-4 Sta. 493+00 15' Rt.
LA-5 Sta. 495+00 15' Lt.
LA-6 Sta. 497+00 15' Rt.
LA-7 Sta. 499+00 15' Lt.
LA-8 Sta. 501+00 15' Rt.
LA-9 Sta. 503+00 15' Lt.
LA-10 Sta. 505+00 15' Rt.
LA-11 Sta. 507+00 15' Lt.
LA-12 Sta. 510+00 35' Lt.
LA-13 Sta. 11+00 84' Rt.
LA-17 Sta. 510+00 35' Lt.
Replaced Damaged Lighting Assembly.
Replace Lighting Assembly and Foundation
Attach conduit to new foundation Replace wire.
Attach conduit to new foundation Replace wire.
Locate Break in Branch Circuit Repair. Replace wire.
Attach conduit to new foundation Replace wire.
Attach conduit to new foundation Replace wire.
Replace Lighting Assembly and Foundation
Attach conduit to new foundation Replace wire.
Replace Lighting Assembly and Foundation
Attach conduit to new foundation Replace wire.
A - 1, #6
A - 2, #4
B - 1, #8
SPC - B
I-59


MISSISSIPPI DEPARTMENT OF TRANSPORTATION
LIGHTING LAYOUT
Sta. 517+00 to 548+00
Project No. MP-6059-34(009)
County: Jones
STATE MISS.
PROJECT NO. MP-6059-34(009)
WORKING NUMBER L-2
SHEET NUMBER 8
NOTE: All Branch Circuits Are 2 Conductor /w Equipment Ground, Sized As Shown.
Replace Lighting Assembly and Foundation
Attach conduit to new foundation Replace wire.
Replace Damaged Lighting Assembly
See Sheet L-7 For Underpass Luminaires.
13th Ave.
16th Ave.
Royal St.
15
16
17
18
19
20
21
22
FOR INFORMATIONAL PURPOSES ONLY


SPECIAL
2nd O. REV.
ELECTRICAL INSTALLATION LEGEND:
A EXISTING 40FT GALVANIZED POLE WITH ONE 250W HPS LUMINAIRE AND 15FT ARM, IES TYPE II DISTRIBUTION.
A1 RELOCATE EXISTING 40FT GALVANIZED POLE WITH ONE 250W HPS LUMINAIRE AND 15FT ARM, IES TYPE II DISTRIBUTION, PRIME INDICATES NEW LOCATION. (TYPICAL OF 11, A1 TO A11).
C INSTALL NEW 100FT GALVANIZED POLE WITH FIVE 1000W HPS LUMINAIRE, HOLOPHANE HMSP-C10HSP-MT-L-9 OR APPROVED EQUAL. (TYPE 100-5-A)
D INSTALL NEW 150W HPS WALL PACK, LITHONIA TWP-150S-TB OR APPROVED EQUAL. LUMINAIRE SHALL BE LISTED FOR WET LOCATION APPLICATIONS. (TYPE UP-150)
E INSTALL NEW 40FT GALVANIZED POLE WITH ONE 250W HPS LUMINAIRE AND 15FT ARM, IES TYPE II DISTRIBUTION. (TYPE 40-1-12-250)
F EXISTING 100FT GALVANIZED POLE WITH FIVE 1000W HPS LUMINAIRES, IES TYPE V DISTRIBUTION TO REMAIN (TYPICAL OF 1).
H EXISTING 130FT GALVANIZED POLE WITH FIVE 1000W HPS LUMINAIRES, IES TYPE V DISTRIBUTION TO REMAIN (TYPICAL OF 1).
H2 RELOCATE EXISTING 130FT GALVANIZED POLE WITH FIVE 1000W HPS LUMINAIRES, IES TYPE V DISTRIBUTION (TYPICAL OF 1). PRIME INDICATES NEW LOCATION.
KEYED NOTES:
1 EXISTING LIGHT FIXTURE AND FOUNDATION TO REMAIN.
2 INSTALL NEW FOUNDATION AND RELOCATE EXISTING LIGHTING ASSEMBLY. MAKE ALL FINAL CONNECTIONS.
3 INSTALL NEW LIGHTING BRANCH CIRCUIT IN CONDUIT. SEE SHEET E13 FOR CIRCUIT WIRING DETAILS.
4 INSTALL NEW FOUNDATION AND LIGHTING ASSEMBLY, RECONNECT TO EXISTING LIGHTING CIRCUIT. SEE SHEET E13 FOR CIRCUIT WIRING DETAILS. MAKE ALL FINAL CONNECTIONS.
5 INSTALL NEW LIGHTING ASSEMBLY "F" FOR UNDER BRIDGE LIGHTING. SEE SHEET E15 FOR DETAILS.
6 JACK AND BORE UNDER ALL EXISTING ROADWAYS. PERFORM INSTALLATION IN ACCORDANCE WITH MDOT STANDARDS.
7 INSTALL NEW LIGHTING ASSEMBLY AND NEW FOUNDATION.
8 INSTALL NEW PULLBOX. MAKE ALL SPLICES WITHIN PULLBOX. SEE SHEET E10 FOR DETAILS.
9 INSTALL NEW LIGHTING CONTROLLER, SPC-X. SEE SHEET E13 FOR DETAILS. INSTALL FEEDER BRANCH CIRCUIT FROM UTILITY POWER POLE. COORDINATE WITH UTILITY FOR POWER POLE LOCATION AND UTILITY REQUIREMENTS. CONTROLLER TO BE TURNED OVER TO CITY.
10 INSTALL NEW LIGHTING CONTROLLER 'SPC-C'. INSTALL NEW FEEDER BRANCH CIRCUIT FROM UTILITY POWER POLE. COORDINATE WITH UTILITY PRIOR TO ANY WORK. SEE SHEET E15 FOR DETAILS. CONTROLLER SHALL COMPLY WITH MDOT STANDARDS.
11 EXTEND CONDUIT TO THE EXISTING CAPPED CONDUIT. INSTALL NEW BRANCH CIRCUIT. MAKE ALL FINAL CONNECTIONS.
12 EXISTING PULLBOX TO REMAIN (TYPICAL).
13 UTILIZE SCHEDULE 80 PVC UNDER ALL NEW ROADWAYS. COST IS SUBSIDIARY TO UNDERGROUND BRANCH CIRCUIT.
14 IN PLACE OF RELOCATION WORK, STORE POLE AND FIXTURE AS DIRECTED AS OWNER
CONDUIT SCHEDULE
LIGHTING CIRCUIT
CONDUIT SIZE
A-4 1-1/2"C
C-1 1-1/2"C
C-2 1-1/2"C
C-3 3"C
C-4 1-1/4"C
X-1 2"C
X-2 1-1/2"C
X-3 1-1/2"C
23
24
25
26
27
28
29
13th St.
LIGHTING CIRCUIT A-4
SHOW CONDUIT SIZES
MATCH LINE SHEET E10
FOR INFORMATIONAL PURPOSES ONLY
SCALE: 1" = 50'
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
LIGHTING INSTALLATION PLAN I
PROJECT NO.: NH-0059-02 (063)
COUNTY: JONES
FILENAME: MS_I59_ELP01.DGN
DESIGNED THP CHECKED BCF DATE MARCH 2017
WORKING NUMBER E5
SHEET NUMBER 98
ROYAL AVE LIGHT WORK

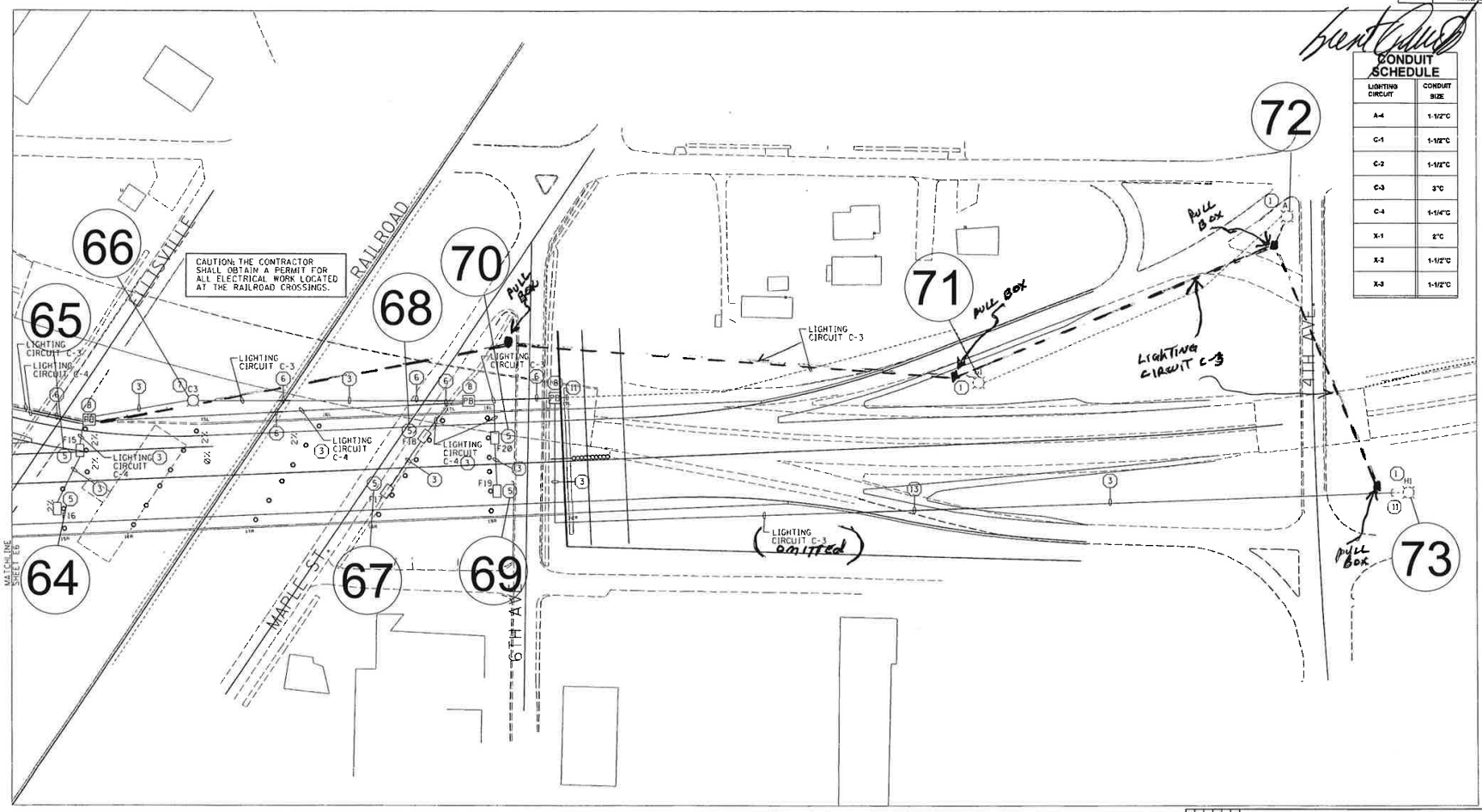

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
LIGHTING INSTALLATION
PLAN II
PROJECT NO.: NH-0059-02 (063)
COUNTY: JONES
FILENAME: MS_I59_ELP02.DGN
WORKING NUMBER
E6
SHEET NUMBER
99
ROYAL AVE. LIGHT MODS
FOR INFORMATIONAL PURPOSES ONLY
CONDUIT SCHEDULE
ROYAL AVE
MAGNOLIA ST
BEACON ST
MATCHLINE SHEET E7
MATCHLINE SHEET E8
MATCHLINE SHEET E5
SCALE: 1" = 50'
SPECIAL 2nd O. REV.
GENERAL NOTES:
1. SEE SHEET E5 FOR ELECTRICAL KEYED NOTES AND INSTALLATION LEGEND.



FOR INFORMATIONAL PURPOSES ONLY

GENERAL NOTES:

1. SEE SHEET E5 FOR ELECTRICAL KEYED NOTES AND INSTALLATION LEGEND.



CONDUIT SCHEDULE	
LIGHTING CIRCUIT	CONDUIT SIZE
A-4	1-1/2"C
C-1	1-1/2"C
C-2	1-1/2"C
C-3	3"C
C-4	1-1/4"C
X-1	2"C
X-2	1-1/2"C
X-3	1-1/2"C

STATE	PROJECT NUMBER
MISS.	NH-0059-02 (063)

FOR INFORMATIONAL PURPOSES ONLY

GENERAL NOTES:

1. SEE SHEET E5 FOR ELECTRICAL KEYED NOTES AND INSTALLATION LEGEND.

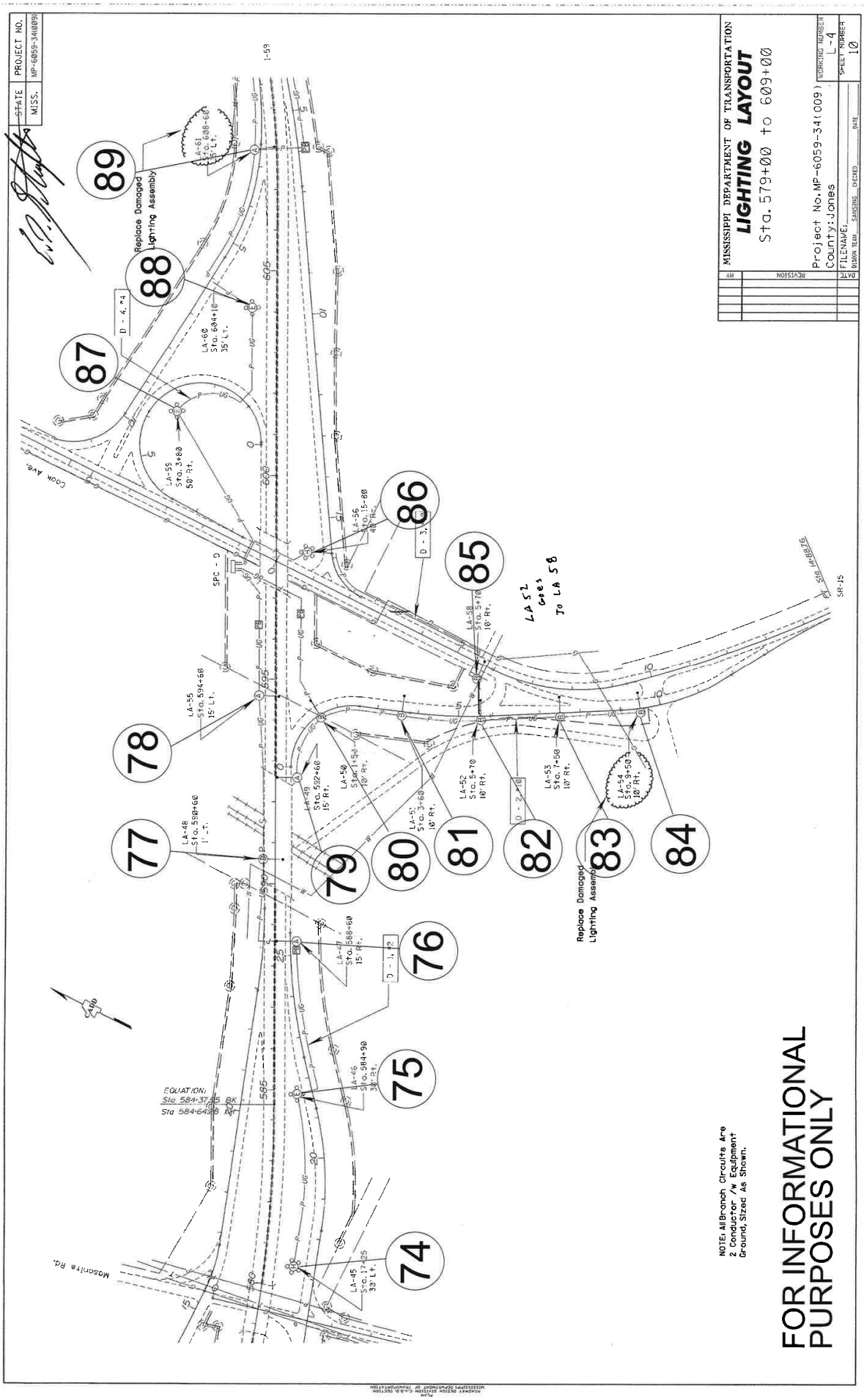
SCALE: 1" = 50'

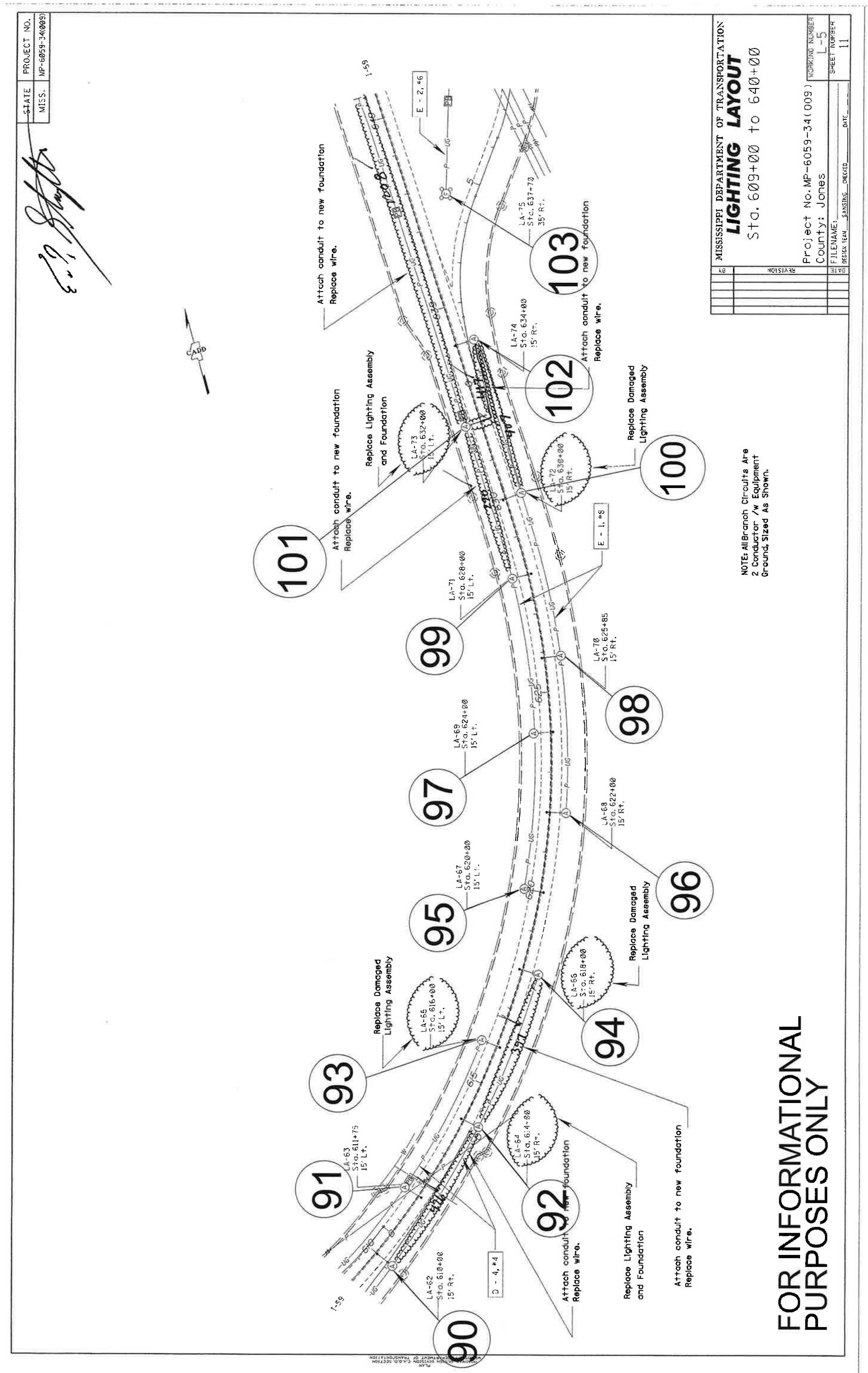
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

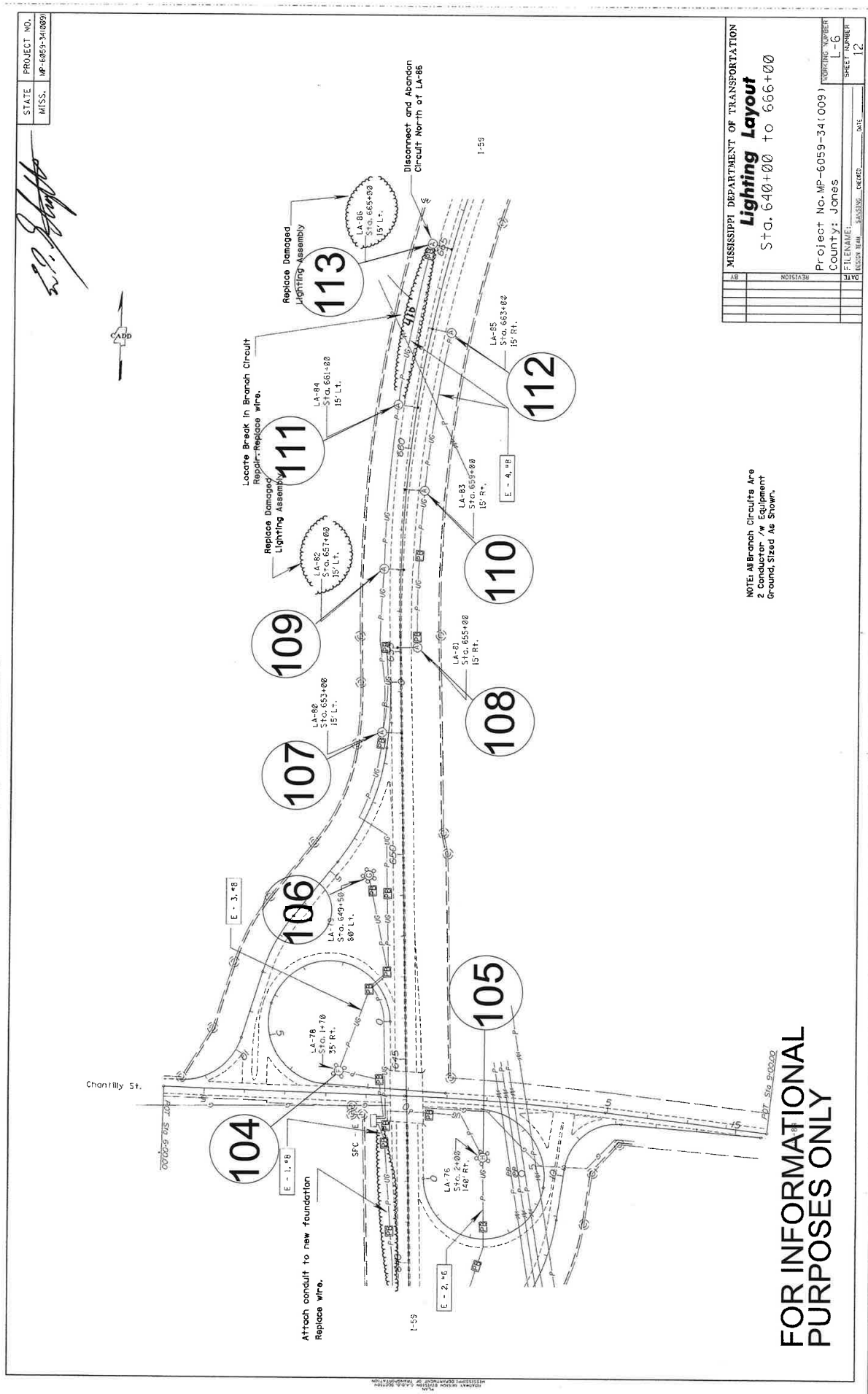
LIGHTING INSTALLATION
PLAN IV

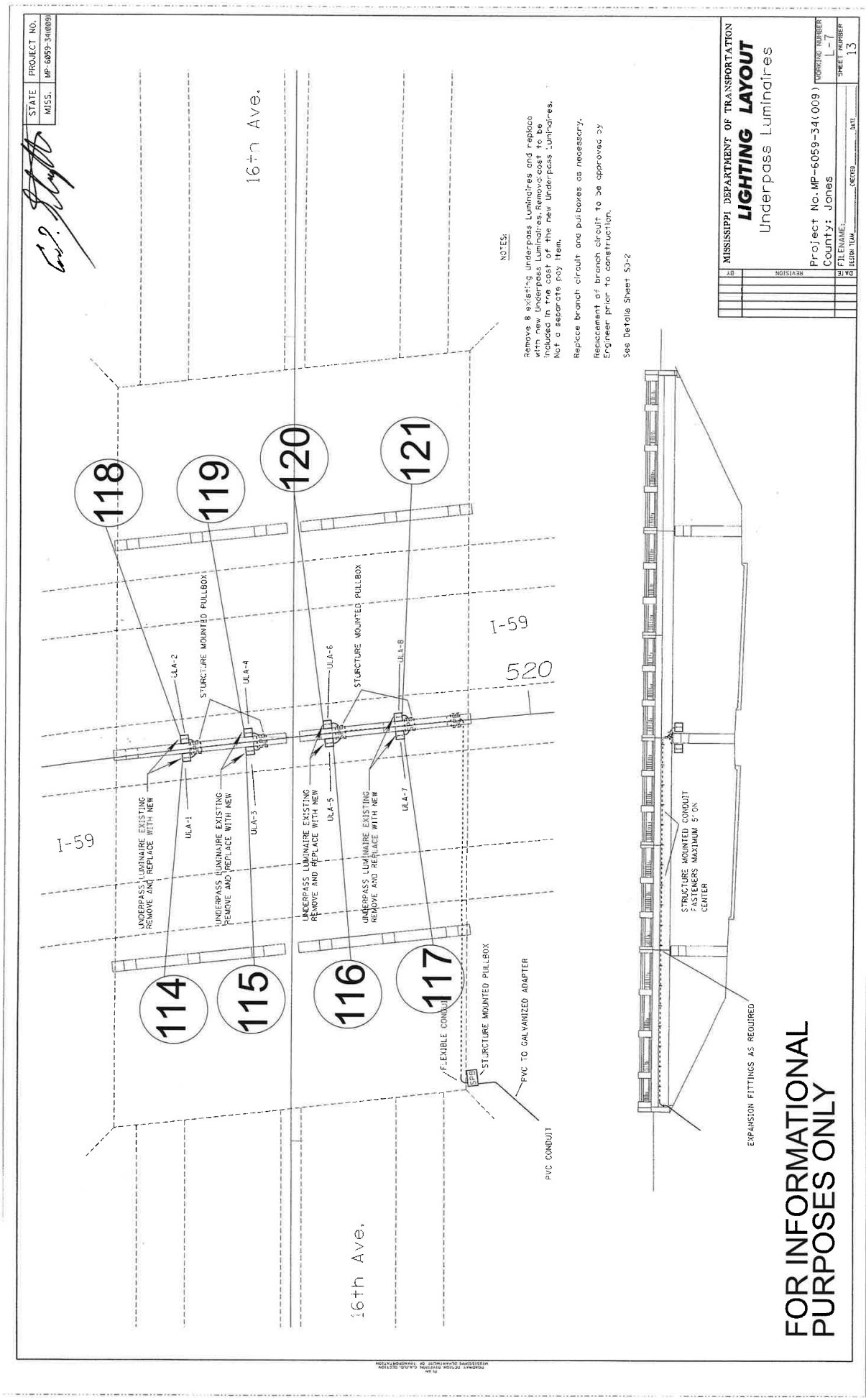
PROJECT NO.: NH-0059-02 (063)
COUNTY: JONES
FILENAME: MS_I59_ELP04.DGN
DESIGNED THP CHECKED ECF DATE MARCH 2008

WORKING NUMBER E8
SHEET NUMBER 100.01


STATE
MISS.
PROJECT NO.
MP-6059-34(009)
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
LIGHTING LAYOUT
Sta. 579+00 to 609+00
Project No. MP-6059-34(009)
County: Jones
FILENAME:
DESIGN TEAM
SURVEYING
DESIGNED
DRAWN
CHECKED
DATE
WORKING NUMBER
L-4
SHEET NUMBER
10
REVISION
BY
DATE
I-59
Coom Ave.
Masonite Rd.
SR-15
Replace Damaged Lighting Assembly
Replace Damaged Lighting Assembly
LA-52 Goes To LA-58
SPC - D
EQUATION:
Sta 584+37.35 BK
Sta 584+64.28 AH
NOTE: All Branch Circuits Are 2 Conductor /w Equipment Ground, Sized As Shown.
FOR INFORMATIONAL PURPOSES ONLY


STATE
MISS.
PROJECT NO.
MP-6059-34(009)
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
LIGHTING LAYOUT
Sta. 609+00 to 640+00
Project No. MP-6059-34(009)
County: Jones
WORKING NUMBER
L-5
SHEET NUMBER
11
NOTE: All Branch Circuits Are 2 Conductor /w Equipment Ground, Sized As Shown.
Attach conduit to new foundation
Replace wire.
Replace Lighting Assembly and Foundation
Replace Damaged Lighting Assembly
LA-62 Sta. 610+00 15' Rt.
LA-63 Sta. 611+75 15' Lt.
LA-64 Sta. 614+00 15' Rt.
LA-65 Sta. 616+00 15' Lt.
LA-66 Sta. 618+00 15' Rt.
LA-67 Sta. 620+00 15' Lt.
LA-68 Sta. 622+00 15' Rt.
LA-69 Sta. 624+00 15' Lt.
LA-70 Sta. 625+85 15' Rt.
LA-71 Sta. 628+00 15' Lt.
LA-72 Sta. 630+00 15' Rt.
LA-73 Sta. 632+00 15' Lt.
LA-74 Sta. 634+00 15' Rt.
LA-75 Sta. 637+70 35' Rt.
D - 4, #4
E - 1, #8
E - 2, #6
I-59
90
91
92
93
94
95
96
97
98
99
100
101
102
103
FOR INFORMATIONAL PURPOSES ONLY


STATE MISS.
PROJECT NO. MP-6059-34(009)
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
Lighting Layout
Sta. 640+00 to 666+00
Project No. MP-6059-34(009)
County: Jones
FILENAME:
DESIGN TEAM SASSING CHECKED DATE
WORKING NUMBER L-6
SHEET NUMBER 12
REVISION BY DATE
NOTE: All Branch Circuits Are 2 Conductor /w Equipment Ground, Sized As Shown.
Chantilly St.
Locate Break in Branch Circuit Repair-Replace wire.
Replace Damaged Lighting Assembly
Replace Damaged Lighting Assembly
Disconnect and Abandon Circuit North of LA-86
Attach conduit to new foundation Replace wire.
LA-86 Sta. 665+00 15' Lt.
LA-85 Sta. 663+00 15' Rt.
LA-84 Sta. 661+00 15' Lt.
LA-83 Sta. 659+00 15' Rt.
LA-82 Sta. 657+00 15' Lt.
LA-81 Sta. 655+00 15' Rt.
LA-80 Sta. 653+00 15' Lt.
LA-79 Sta. 649+50 60' Lt.
LA-78 Sta. 1+70 35' Rt.
LA-76 Sta. 2+00 140' Rt.
E - 1, #8
E - 2, #6
E - 3, #8
E - 4, #8
SPC - E
104
105
106
107
108
109
110
111
112
113
I-59
FOR INFORMATIONAL PURPOSES ONLY


STATE MISS.
PROJECT NO. MP-6059-34(009)
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
LIGHTING LAYOUT
Underpass Luminaires
Project No. MP-6059-34(009)
County: Jones
WORKING NUMBER L-7
SHEET NUMBER 13
BY DATE REVISION
DESIGN TEAM
FILENAME:
CHECKED
DATE
16th Ave.
I-59
520
118
119
120
121
114
115
116
117
ULA-1
ULA-2
ULA-3
ULA-4
ULA-5
ULA-6
ULA-7
ULA-8
STURCTURE MOUNTED PULLBOX
UNDERPASS LUMINAIRE EXISTING REMOVE AND REPLACE WITH NEW
FLEXIBLE CONDUIT
STURCTURE MOUNTED PULLBOX
PVC TO GALVANIZED ADAPTER
PVC CONDUIT
STRUCTURE MOUNTED CONDUIT FASTENERS MAXIMUM 5' ON CENTER
EXPANSION FITTINGS AS REQUIRED
NOTES:
Remove & existing Underpass Luminaires and replace with new Underpass Luminaires. Removal cost to be included in the cost of the new Underpass Luminaires. Not a separate pay item.
Replace branch circuit and pullboxes as necessary.
Replacement of branch circuit to be approved by Engineer prior to construction.
See Details Sheet S3-2
FOR INFORMATIONAL PURPOSES ONLY

	DESCRIPTION	Cost Absorbed Items
1	Renovate existing LM assembly, 40'	
2	Install New 40' LM pole, Assembly, and Foundation	
3	Install New 40' LM pole, Assembly, and Foundation	
4	Renovate Existing LM Assembly, 40'	
5	Renovate Existing LM Assembly, 40'	
6	Renovate Existing LM Assembly, 40'	
7	Install New 40' LM pole, Assembly, and Foundation	
8	Renovate Existing LM Assembly, 40'	
9	Renovate Existing LM Assembly, 40'	
10	Renovate Existing LM Assembly, 40'	
11	Install New 40' LM pole, Assembly, and Foundation	
12	Renovate Existing HM Assembly, 100-4-S	
13	Renovate Existing HM Assembly, 100-4-S	
14	Renovate Existing HM Assembly, 100-4-S, Repair HM Lowering Device	[1]
15	Renovate Existing HM Assembly, 100-4-S	[1]
16	Remove Existing SPC, Install New SPC	
17	Renovate existing HM Assembly, 100-4-S	[1], [2]
18	Renovate existing HM Assembly, 100-4-S	[1]
19	Cost absorbed	[3]
20	Renovate existing LM assembly, 40'	
21	Renovate existing HM Assembly, 100-4-S	[1]
22	Renovate existing HM Assembly, 130-5-S	[1]
23	Renovate existing LM assembly, 40'	
25	Install New 40' LM pole, Assembly, and Foundation	
26	Renovate existing LM assembly, 40'	
27	Renovate existing LM assembly, 40'	
28	Install New 40' LM pole, Assembly, and Foundation	
29	Renovate existing HM assembly, 100-5-A	[1]
30	Renovate Existing UP Assembly	
31	Renovate Existing UP Assembly	
32	Renovate Existing UP Assembly	
33	Install New 40' LM pole, Assembly, and Foundation	
34	Renovate Existing UP Assembly	
35	Renvoate Existing LM Assembly, 40'	
36	Renovate Existing HM Assembly, 100-5-A	[1]
37	Renovate Existing UP Assembly	
38	Renovate Existing UP Assembly	
39	Renovate Existing UP Assembly	
40	Renovate Existing UP Assembly	
41	Renovate Existing UP Assembly	
42	Renovate Existing UP Assembly	
43	Renovate Existing UP Assembly	
44	Renovate Existing UP Assembly	
45	Renovate Existing HM Assembly, 130-5-A	[1]
46	Renovate Existing UP Assembly	
47	Renovate Existing UP Assembly	
48	Renvoate Existing LM Assembly, 40'	
49	Renvoate Existing LM Assembly, 40'	
50	Renvoate Existing LM Assembly, 40'	
51	Renvoate Existing LM Assembly, 40'	
52	Renvoate Existing LM Assembly, 40'	
53	Renvoate Existing LM Assembly, 40'	
54	Renvoate Existing LM Assembly, 40'	
55	Renvoate Existing LM Assembly, 40'	
56	Install New 40' LM pole, Assembly, and Foundation	
57	Renvoate Existing LM Assembly, 40'	
58	Renvoate Existing LM Assembly, 40'	
59	Renovate Existing UP Assembly	
60	Renovate Existing UP Assembly	
61	Renovate Existing LM Assembly, 40'	
62	Renovate Existing LM Assembly, 40'	
63	Renovate Existing LM Assembly, 40'	
64	Renovate Existing UP Assembly	
65	Renovate Existing UP Assembly	
66	Renovate existing HM assembly, 100-5-A	[1]
67	Renovate Existing UP Assembly	
68	Renovate Existing UP Assembly	
69	Renovate Existing UP Assembly	
70	Renovate Existing UP Assembly	
71	Renovate existing HM assembly, 100-5-A	[1], [4]
72	Renovate Existing LM Assembly, 40'	
73	Renovate Existing HM Assembly, 130-5-A	[1]
74	Renovate Existing HM Assembly, 130-5-A	[1]
75	Renovate Existing HM Assembly, 100-4-S	

76	Renovate Existing LM Assembly, 40'	
77	Renovate Existing LM Assembly, 40'	
78	Renovate Existing LM Assembly, 40'	
79	Renovate Existing LM Assembly, 40'	
80	Renovate Existing LM Assembly, 30'	
81	Install New 30' LM pole, Assembly, and Foundation	
82	Renovate Existing LM Assembly, 30'	
83	Install New 30' LM pole, Assembly, and Foundation	
84	Renovate Existing LM Assembly, 30'	
85	Renovate Existing LM Assembly, 30'	
86	Renovate Existing HM Assembly, 130-5-A	[1]
87	Renovate Existing HM Assembly, 100-4-S	
88	Renovate Existing HM Assembly, 100-4-S	
89	Install New 40' LM pole, Assembly, and Foundation	
90	Renovate Existing LM Assembly, 40'	
91	Renovate Existing LM Assembly, 40'	
92	Renovate Existing LM Assembly, 40'	
93	Renovate Existing LM Assembly, 40'	
94	Renovate Existing LM Assembly, 40'	
95	Renovate Existing LM Assembly, 40'	
96	Renovate Existing LM Assembly, 40'	
97	Renovate Existing LM Assembly, 40'	
98	Renovate Existing LM Assembly, 40'	
99	Renovate Existing LM Assembly, 40'	
100	Renovate Existing LM Assembly, 40'	
101	Renovate Existing LM Assembly, 40'	
102	Renovate Existing LM Assembly, 40'	
103	Renovate Existing HM Assembly, 130-4-S	[1], [4]
104	Renovate Existing HM Assembly, 130-4-S	[1]
105	Renovate existing HM Assembly, 130-5-S	[1]
106	Renovate Existing HM Assembly, 100-5-S	[1]
107	Renovate Existing LM Assembly, 40'	
108	Renovate Existing LM Assembly, 40'	
109	Install New 40' LM pole, Assembly, and Foundation	
110	Renovate Existing LM Assembly, 40'	
111	Renovate Existing LM Assembly, 40'	
112	Renovate Existing LM Assembly, 40'	
113	Renovate Existing LM Assembly, 40'	
114	Renovate Existing UP Assembly	
115	Renovate Existing UP Assembly	
116	Renovate Existing UP Assembly	
117	Renovate Existing UP Assembly	
118	Renovate Existing UP Assembly	
119	Renovate Existing UP Assembly	
120	Renovate Existing UP Assembly	
121	Renovate Existing UP Assembly	
[1]	Install new reflectors for lock system	
[2]	Install new test outlet	
[3]	Replace photo cell	
[4]	Replace missing pole door	

	907-683-H1002	907-683-H1010	907-683-G1004	907-683-G1013	907-683-G1015	907-683-G1013	907-683-G1006	907-683-G1012	907-683-I1001	683-B195	683-B200	682-F001	202-B179	202-B176	907-683-G2001	684-A004
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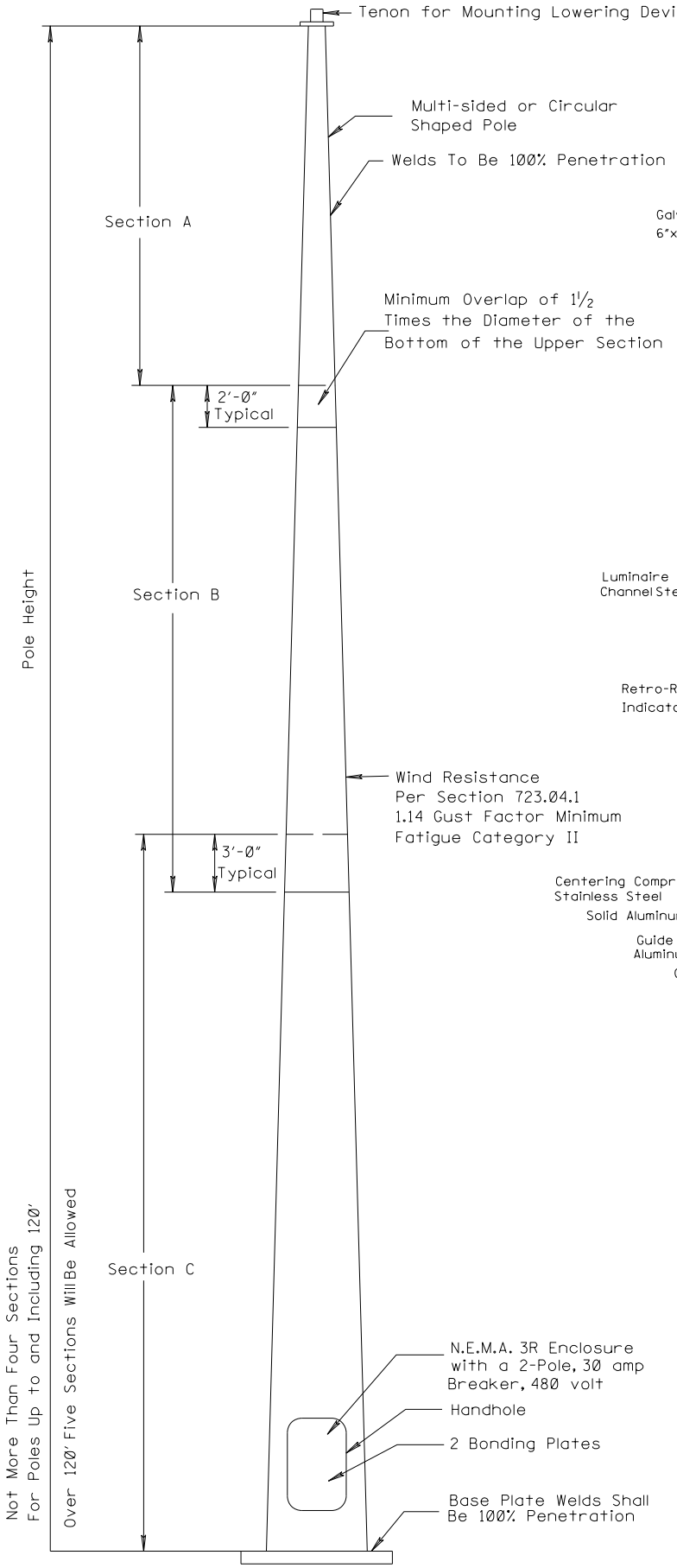
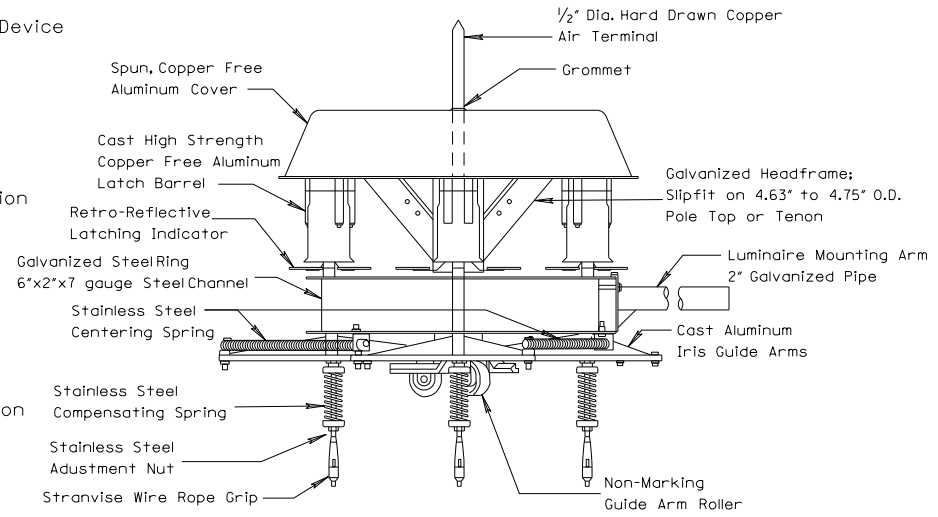
Total	50	4	10	1	4	4	2	2	30	10	2	1	12	1	1	12

STATE	PROJECT NO.
MISS.	

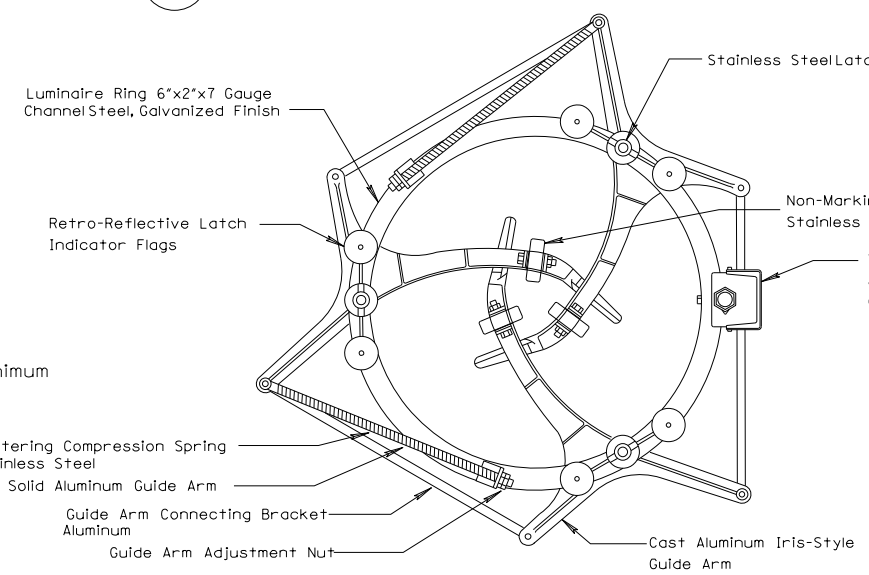


1 LD-1 **HIGH MAST POLE DETAIL** N.T.S.

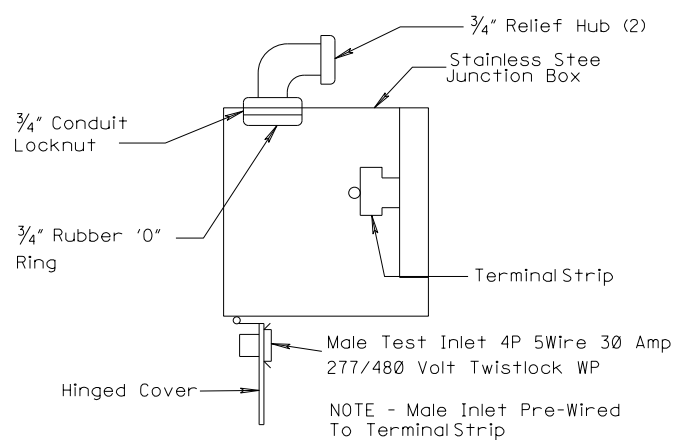
Design in accordance with the curernt AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals



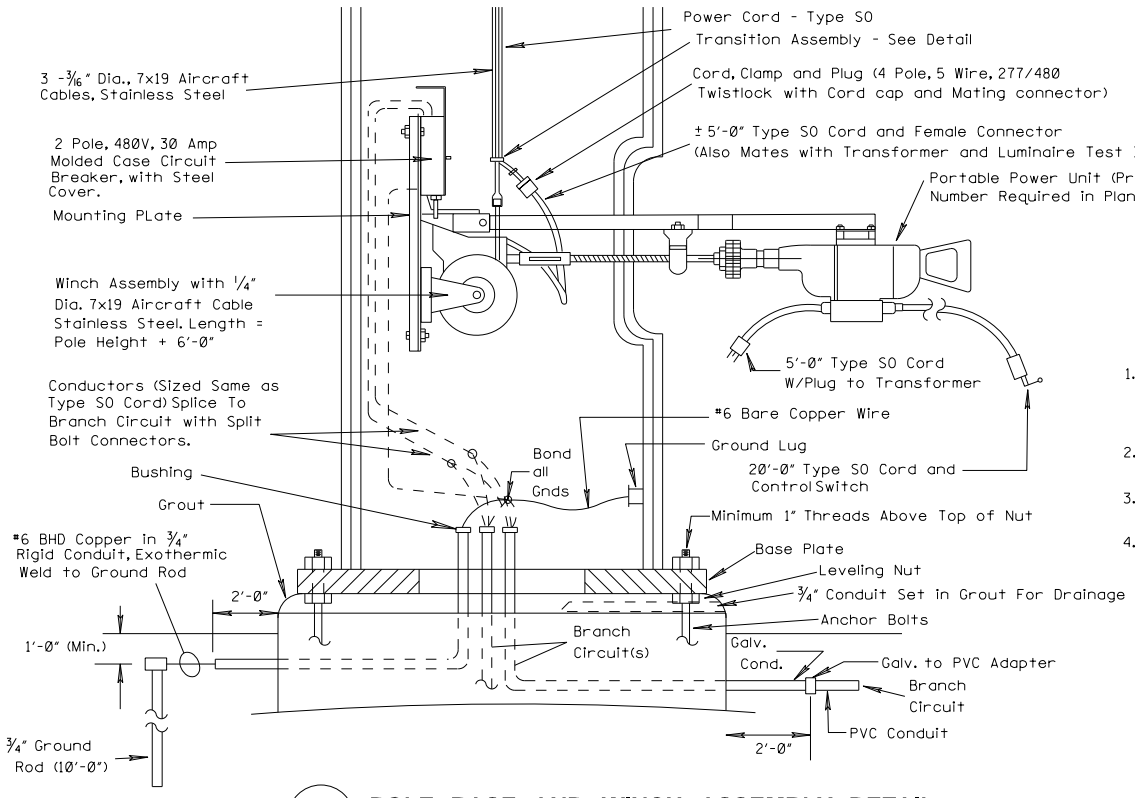
2 LD-1 **HEAD FRAME AND LUMINAIRE MOUNTING DETAIL** N.T.S.



3 LD-1 **LUMINAIRE MOUNTING RING DETAIL (TOP VIEW)** N.T.S.



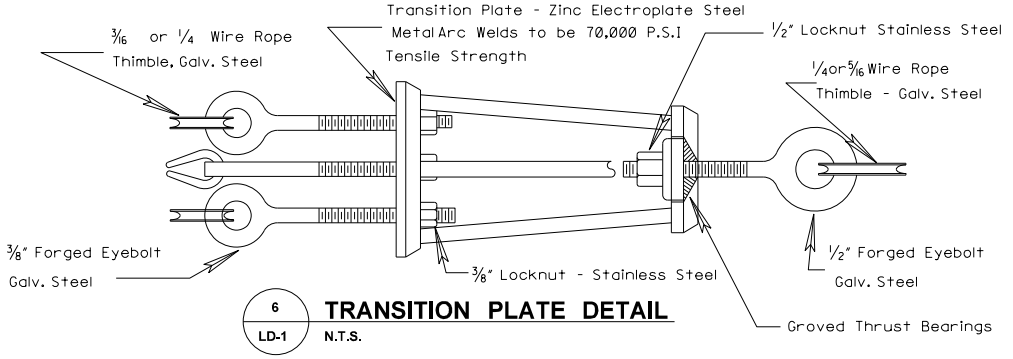
4 LD-1 **RING TERMINAL BOX DETAIL** N.T.S.



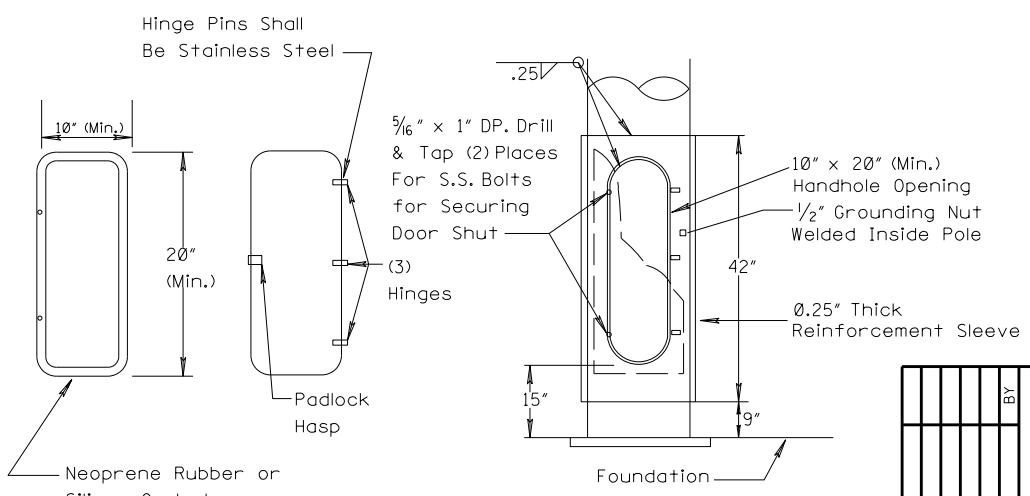
NOTE

1. Provide (1) Dry Type Portable Transformer 480V 1 Ph Primary 120V 1 Ph Secondary, Per Portable Power Unit
2. See Detail 6/LD-2 For Electrical Schematic
3. See Detail 4/LD-2 for Alignment of Poles
4. See Sheet LD-4 for Foundation Details

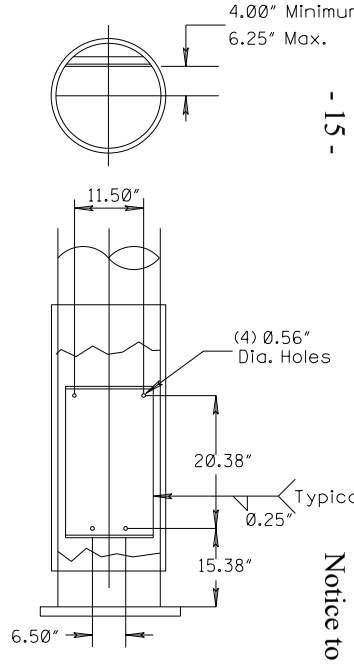
5 LD-1 **POLE BASE AND WINCH ASSEMBLY DETAIL** N.T.S.



6 LD-1 **TRANSITION PLATE DETAIL** N.T.S.



7 LD-1 **HANDHOLE DETAIL** N.T.S.



8 LD-1 **WINCH PLATE DETAIL** N.T.S.

Notice to Bidders No. 2022

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

Lighting Details

PRELIMINARY NOT FOR CONSTRUCTION

Project No.

County

FILENAME: LD-1.DGN

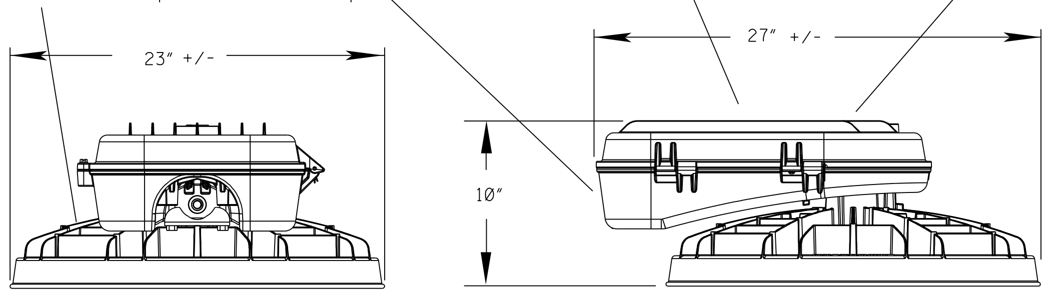
DESIGN TEAM _____ CHECKED _____ DATE _____

WORKING NUMBER

SHEET NUMBER

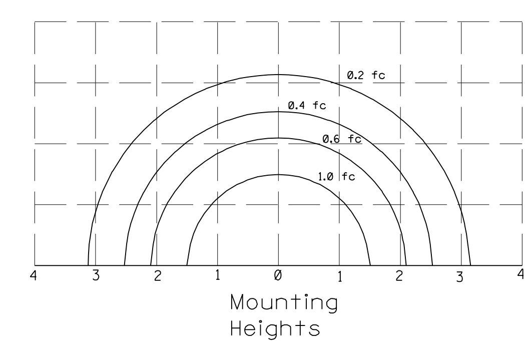
REVISION | BY | DATE

STATE	PROJECT NO.
MISS.	



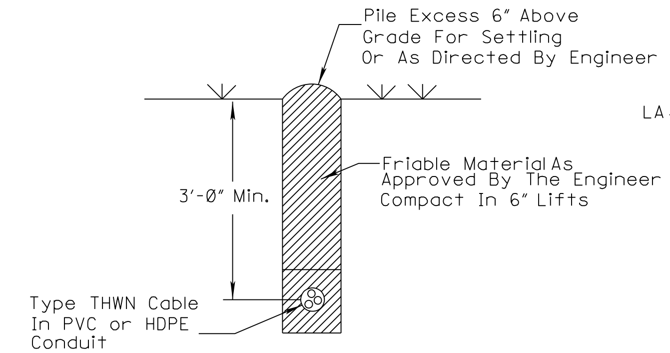
E.P.A. = 1.3 sq. ft. +/-
Weight 55 lbs +/-

1 LD-2 TYPICAL HIGH MAST LED LUMINAIRE DETAIL
N.T.S.

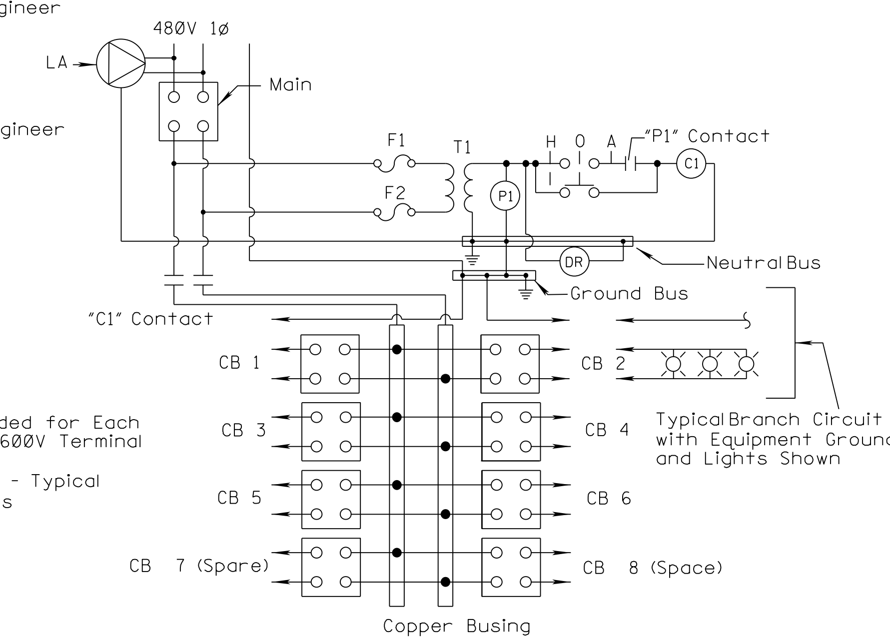


2 LD-2 TYPICAL TYPE V LED DISTRIBUTION DETAIL
N.T.S.

NOTE:
Pattern shown is for four (4) Type V LED luminaires mounted at 100 ft.



3 LD-2 CABLE TRENCHING DETAIL
N.T.S.



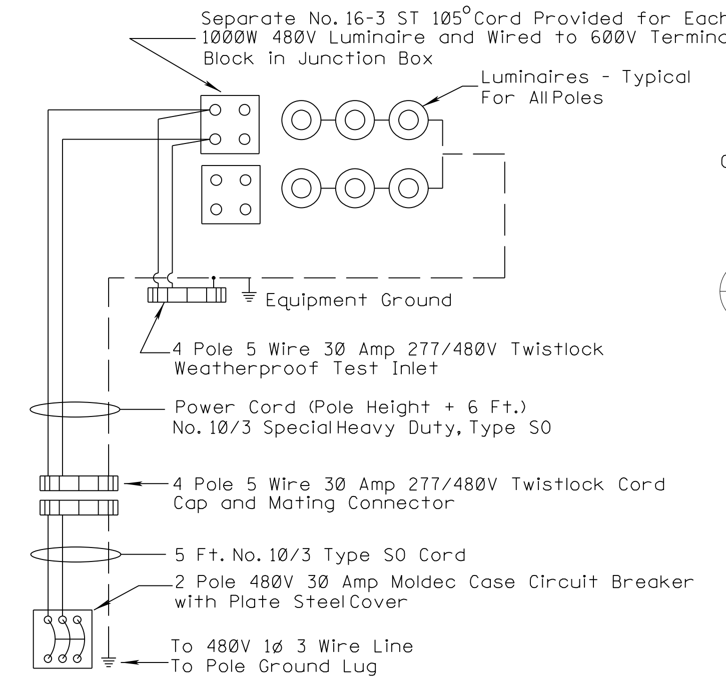
7 LD-2 SCHEMATIC OF LIGHTING CONTROLLER DETAIL
N.T.S.

Main Circuit Breaker 200A 480V 2Pole
F1, F2 Transformer Fuses - 600V, 5 Amp
T1 - Control Transformer - 480V Pri., 120V Sec., 1000VA
H.O.A. - Hand-Off-Auto. Selector Switch
C1- Contactor
CB - Branch Circuit Breaker (No. as Req'd on Schedule)
* LA - Lightning Arrester
DR - Duplex Receptacle
* P1 - Photoelectric Control

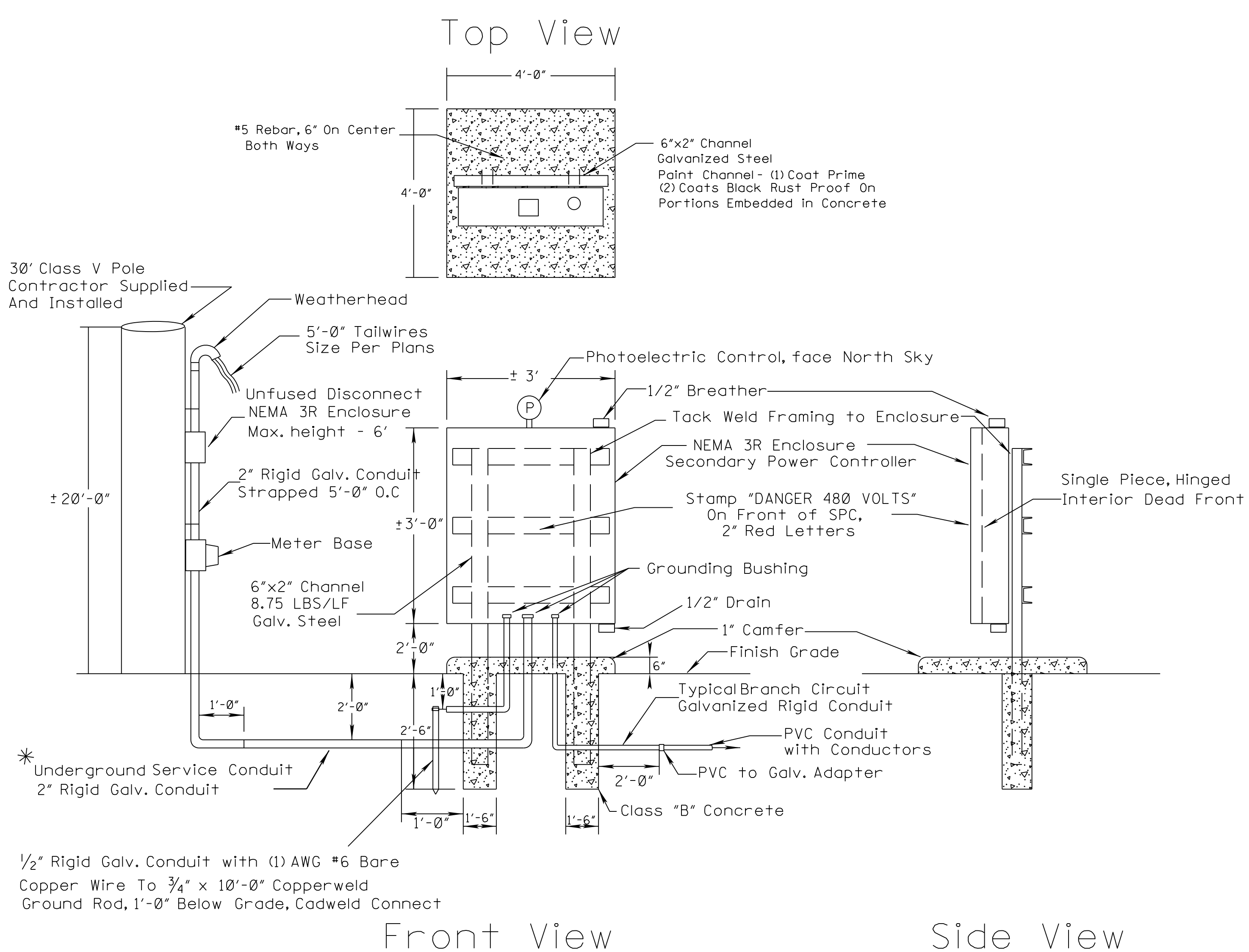
NOTE

All Components Located Inside NEMA 3R Enclosure Except Those Noted with *

Label Breakers As To Circuit Number
Use Phenolic Engraved Labels

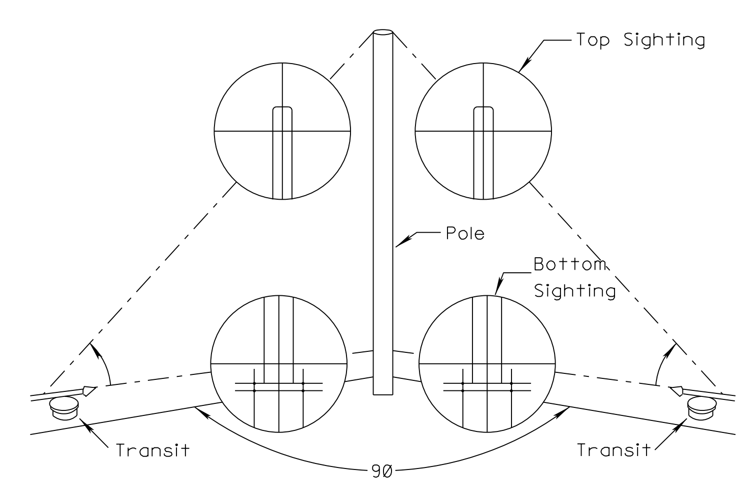


6 LD-2 TYPICAL HIGH MAST POLE SCHEMATIC DETAIL
N.T.S.



5 LD-2 SECONDARY POWER CONTROLLER DETAIL
N.T.S.

* This Underground Service Circuit is to be included in the cost of the Secondary Power Controller unless noted otherwise on the plans. Long runs of Underground Service Conduit shall be paid for as Underground Branch Circuit.



4 LD-2 VERTICAL ALIGNMENT OF HIGH MAST POLES DETAIL
N.T.S.

NOTE: See Specifications for Clarification on Pole Alignment

BY	
REVISION	MISSISSIPPI DEPARTMENT OF TRANSPORTATION **LIGHTING DETAILS** Project No. County
DATE	FILENAME: LD-2 LED.DGN DESIGN TEAM ______ CHECKED ______ DATE ______

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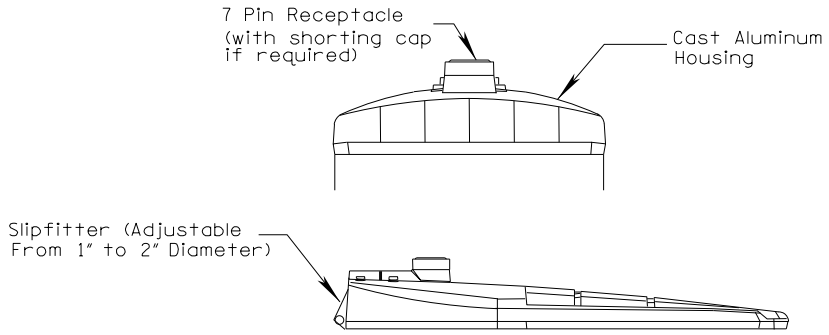
WORKING NUMBER LD-2

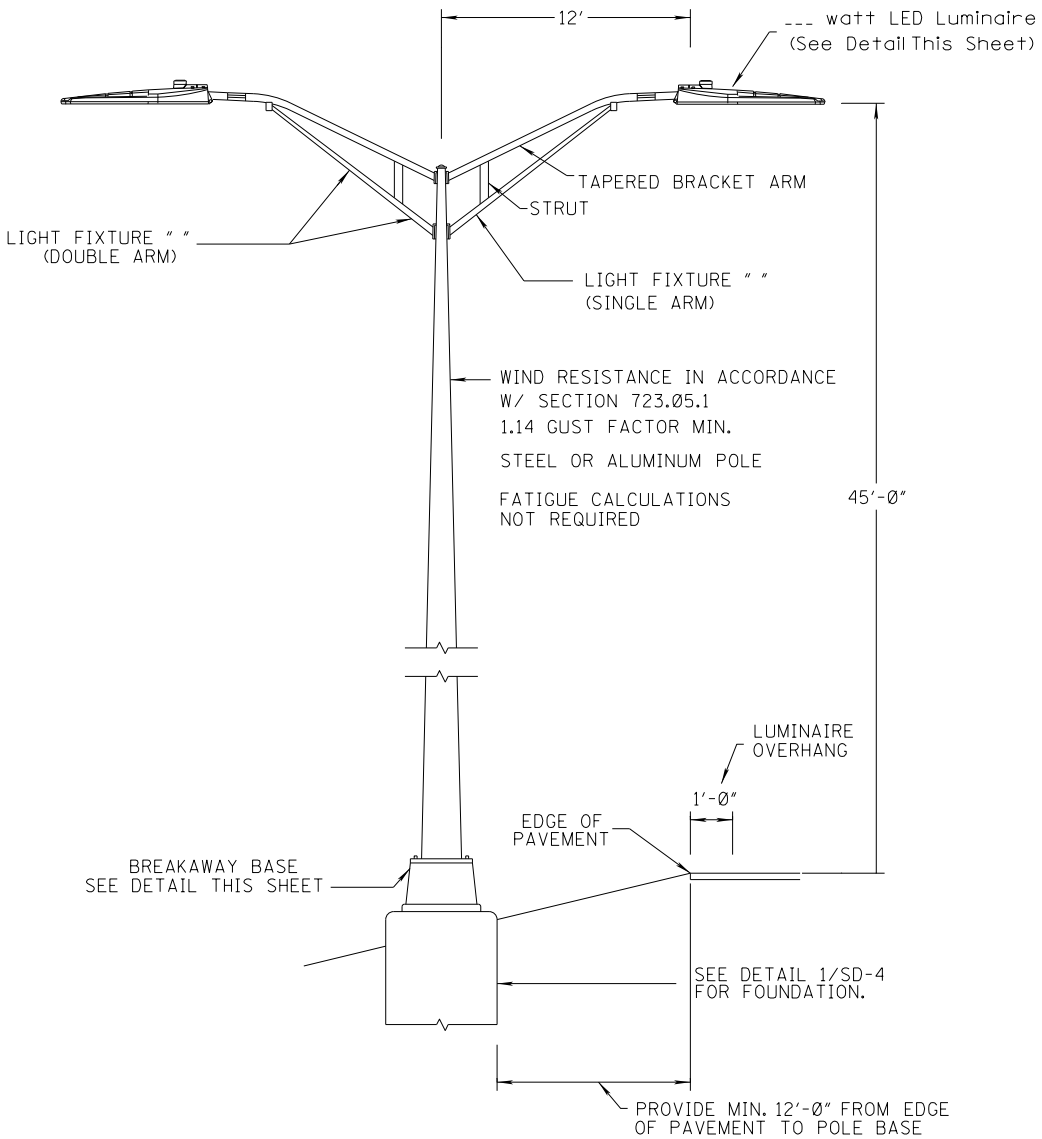
SHEET NUMBER

STATE	PROJECT NO.
MISS.	



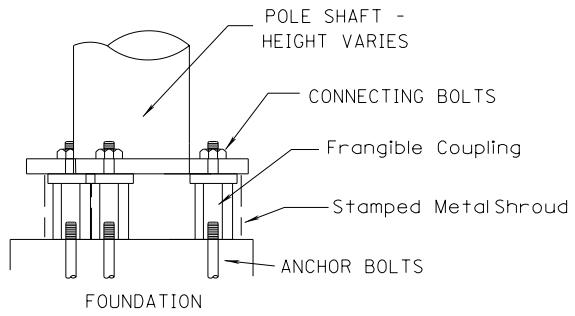
1 / LD-3 **LUMINAIRE-LOWMAST LIGHTING ASSEMBLY DETAIL**

LUMINAIRE REQUIREMENTS - REFER TO SPECIFICATIONS
N.T.S.

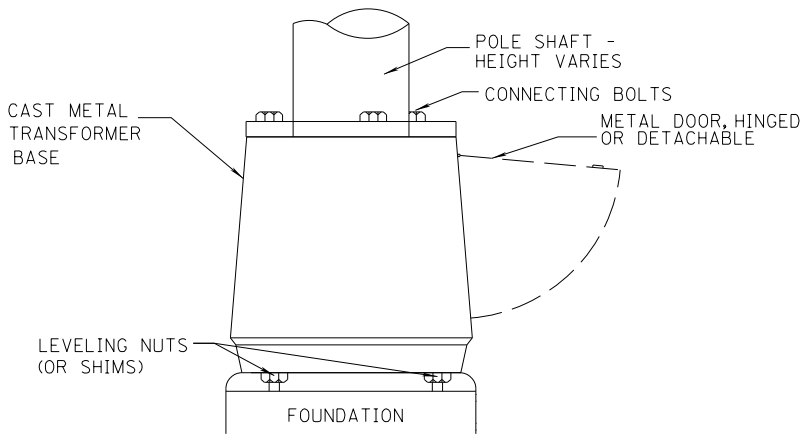


2 / LD-3 **TYPICAL LOWMAST LIGHTING ASSEMBLY DETAIL**

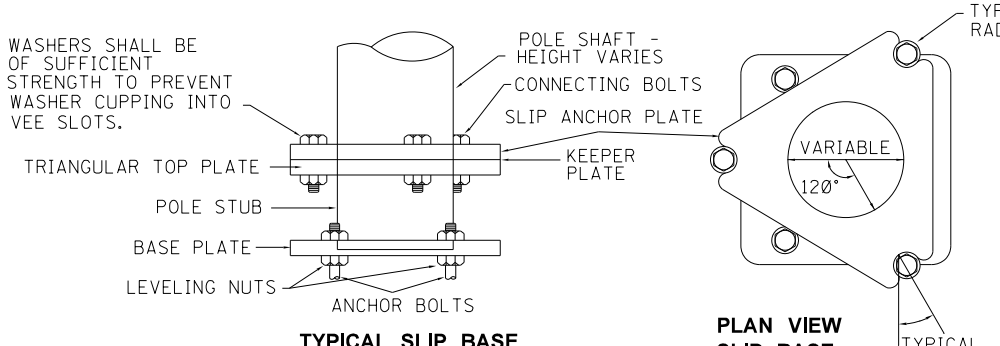
N.T.S.



TYPICAL FRANGIBLE COUPLING



TYPICAL TRANSFORMER BASE

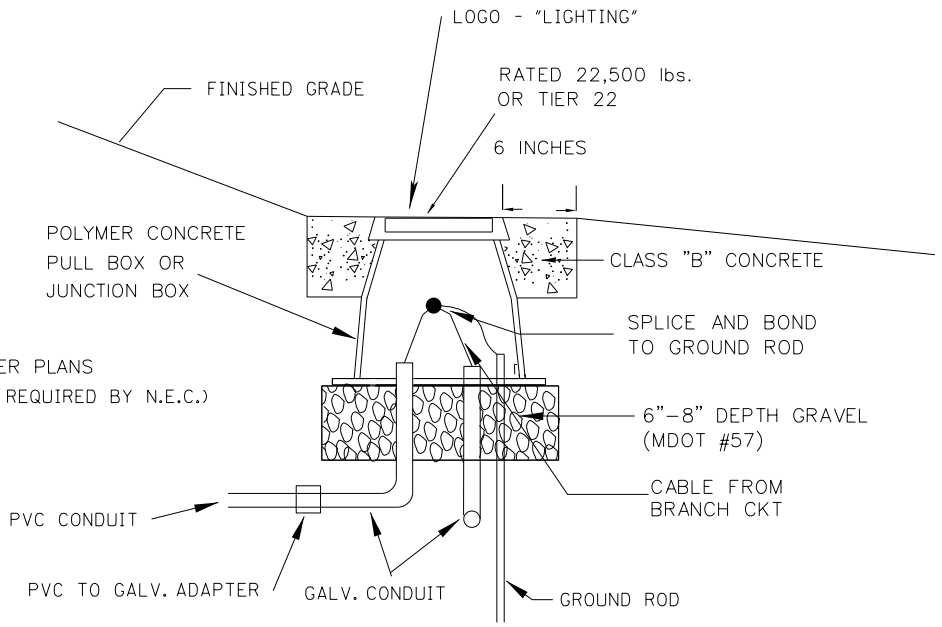


TYPICAL SLIP BASE

PLAN VIEW SLIP BASE

5 / LD-3 **TYPICAL BREAKAWAY BASES**

N.T.S.



4 / LD-3 **UNDERGROUND JUNCTION BOX OR PULL BOX DETAIL**

N.T.S.

UNDERGROUND PULL BOX SHALL BE THE SAME
WITHOUT THE GROUND ROD

NOTES:

1. KEEPER PLATE IS FABRICATED FROM #28 GAUGE GALVANIZED SHEET STEEL. ONE (1) FUNRISHED WITH EACH POLE EQUIPPEDWITH SLIP BASE.
2. SLIP ANCHOR PLATE IS FABRICATED FROM STEEL PLATE COMFORMING TO ASTM A-36 WITH MINIMUM YIELD STRENGTH OF 36 KSI ONE (1) SLIP ANCHOR PLATE IS FURNISHED WITH EACH SLIP BASE EQUIPPED POLE.
3. BREAKWAY DEVICES MUST MEET THE REQUIREMENTS OF THE CURRENT ADDITION OF AASHTO STANDARD SPECIFICATIONS FOF STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, OR NCHRP REPORT 350.
4. CONTRACTOR SHALL LIMIT THE AMOUNT OF WIRE USED IN THE BREAKAWAY BASE DEVICE SO THAT THE CIRCUIT WILL ELECTRICALLY DISCONNECT AS CLOSE AS POSSIBLE TO THE TOP OF THE FOUNDATION WHEN STRUCK BY AN ERRANT VEHICLE.
5. CONDUIT PROJECTING INTO THE POLE SHALL BE CUT OFF LOW ENOUGH TO ENSURE IT DOES NOT EFFECT THE OPERATION OF THE BREAKAWAY DEVICE. IN NO INSTANCE SHALL THE CONDUIT EXTEND ABOVE THE MAXIMUM 4" STUB HEIGHT.

Notice to Bidders No. 2022-- Cont'd.

BY | REVISION | DATE

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

Lighting Details

Project No.

County

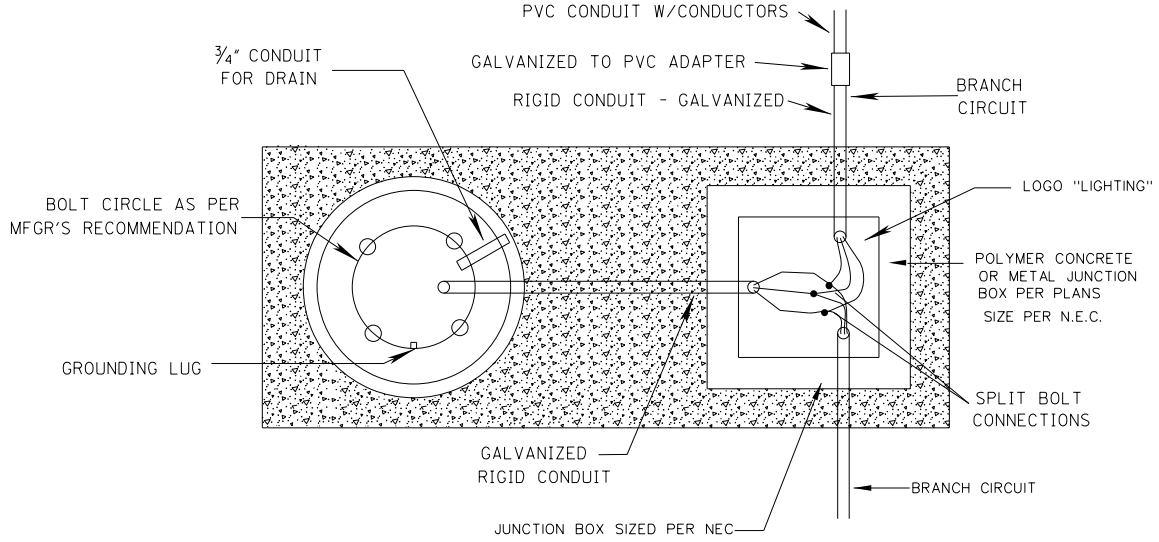
WORKING NUMBER

SHEET NUMBER

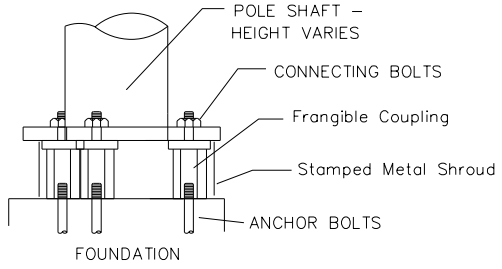
FILENAME:

DESIGN TEAM CHECKED DATE

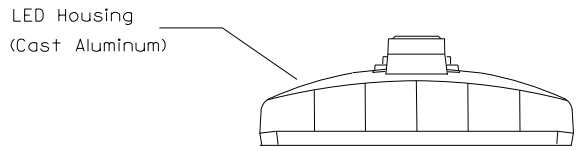
STATE	PROJECT NO.
MISS.	

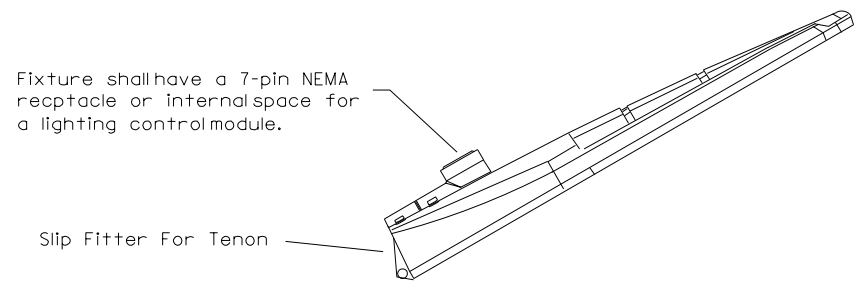


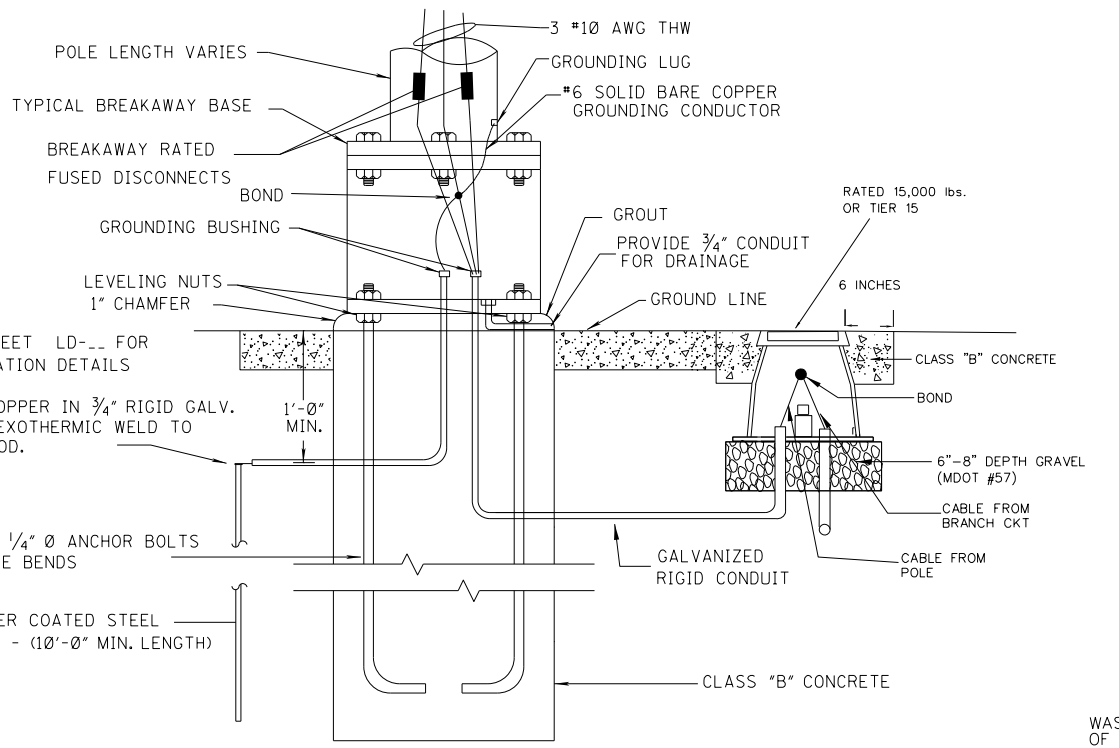
PLAN VIEW
N.T.S.



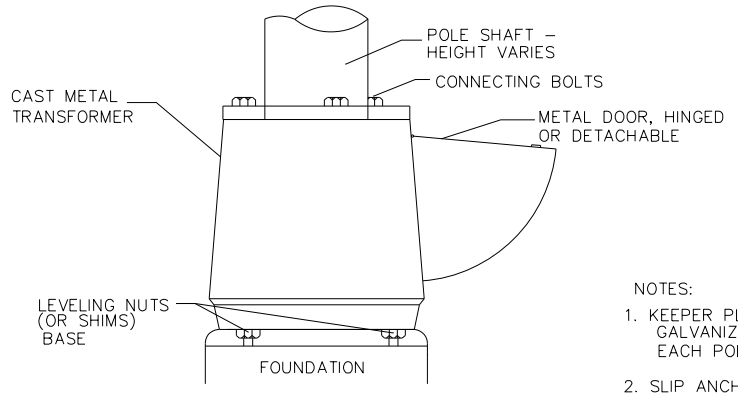
TYPICAL FRANGIBLE COUPLING



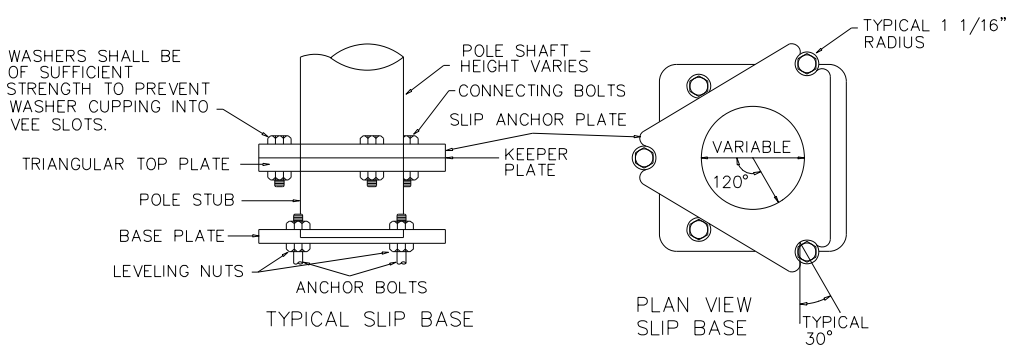




SIDE VIEW
FOUNDATION DETAIL TYPE LIGHTING ASSEMBLY
1 / LD-4
N.T.S.



TYPICAL TRANSFORMER BASE

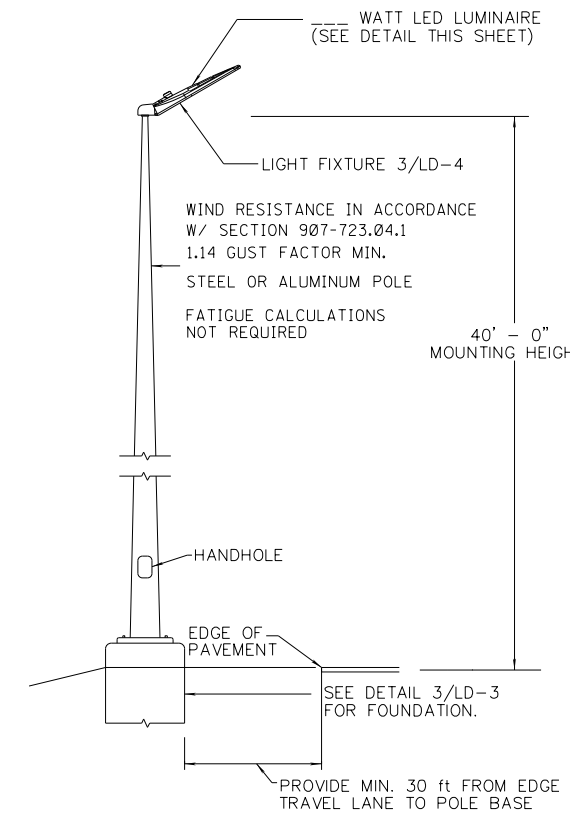


2 / LD-4 TYPICAL BREAKAWAY BASES
N.T.S.

NOTES:

1. KEEPER PLATE IS FABRICATED #28 GUAGE GALVANIZED SHEET STEEL. ONE (1) FURNISHED WITH EACH POLE EQUIPPEDWITH SLIP BASE.
2. SLIP ANCHOR PLATE IS FABRICATED FROM STEEL PLATE COMFORMING TO ASTM A–36 WITH MINIMUM YIELD STRENGTH OF 36 ksi ONE (1) SLIP ANCHOR PLATE IS FURNISHED WITH EACH SLIP BASE EQUIPPED POLE.
3. BREAKWAY DEVICES MUST MEET THE REQUIREMENTS OF THE CURRENT ADDITION OF AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.
4. CONTRACTOR SHALL LIMIT THE AMOUNT OF WIRE USED IN THE BASE OF THE BREAKAWAY DEVICE SO THAT THE CIRCUIT WILL ELECTRICALLY DISCONNECT AS CLOSE AS POSSIBLE TO THE TOP OF THE FOUNDATION. WHEN STRUCK BY AN ERRANT VEHICLE.
5. CONDUIT PROJECTING INTO THE POLE SHALL BE CUT OFF LOW ENOUGH TO ENSURE IT DOES NOT EFFECT THE OPERATION OF THE BREAKAWAY DEVICE. IN NO INSTANCE SHALL THE CONDUIT PROJECT ABOVE THE MAXIMUM 4 INCH STUB HEIGHT.

3 / LD-4 **LUMINAIRE-LOWMAST LIGHTING ASSEMBLY DETAIL**
LUMINAIRE REQUIREMENTS - REFER TO SPECIFICATIONS
N.T.S.



4 / LD-4 **TYPICAL LOW MAST LIGHTING ASSEMBLY**
N.T.S.

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MISSISSIPPI DEPARTMENT OF TRANSPORTATION

PRELIMINARY
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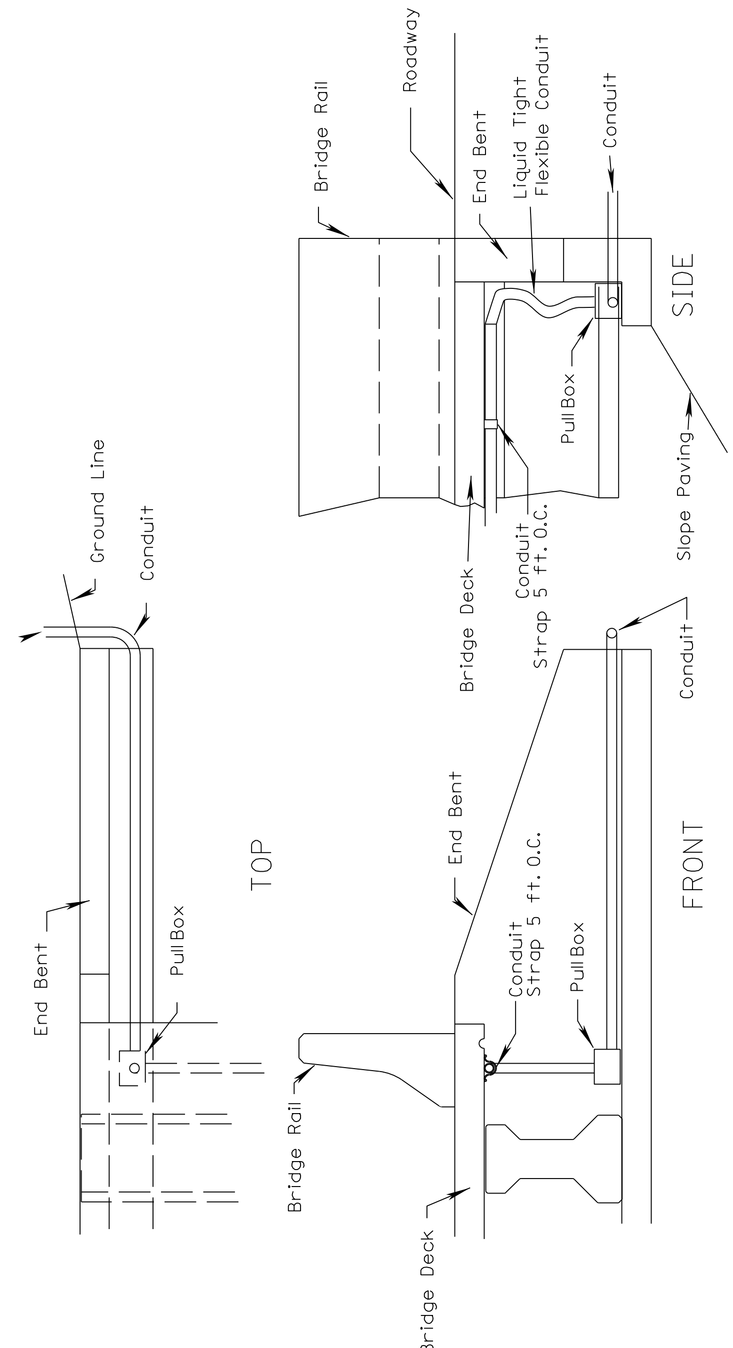
BY	REVISION	DATE

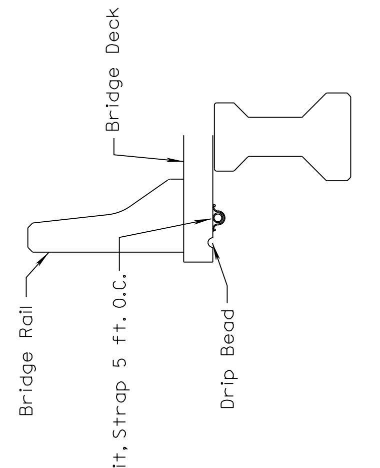
FILENAME: LD-4.DGN
DESIGN TEAM _____ CHECKED _____ DATE _____

WORKING NUMBER
LD-4
SHEET NUMBER

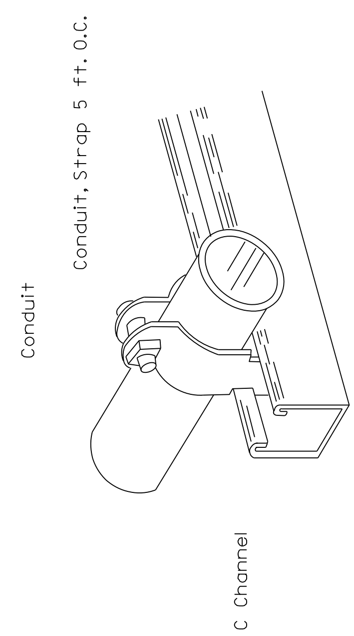
STATE	PROJECT NO.
MISS.	



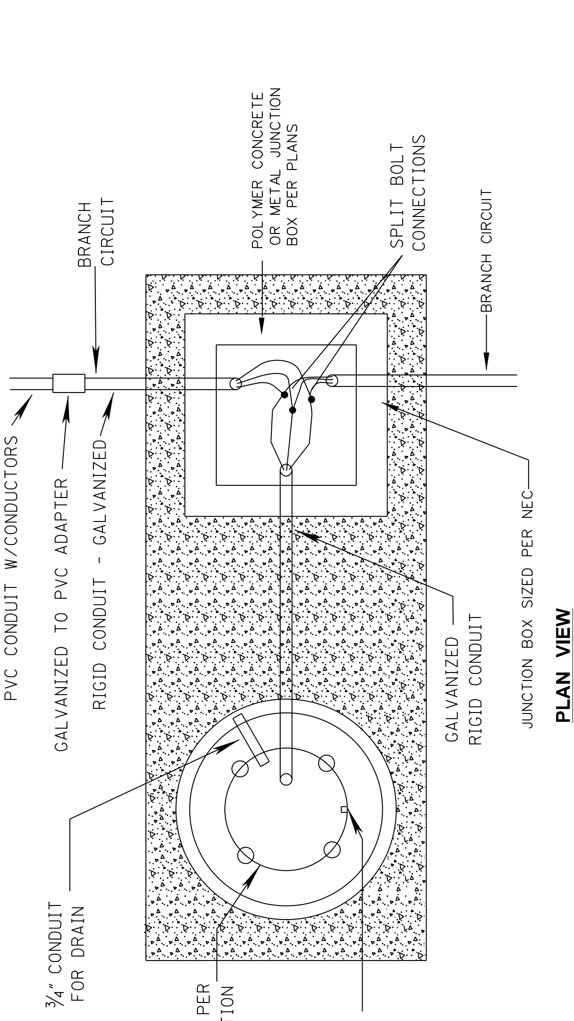
2 LD-4 **TYPICAL CONDUIT TRANSITION DETAIL**
N.T.S.



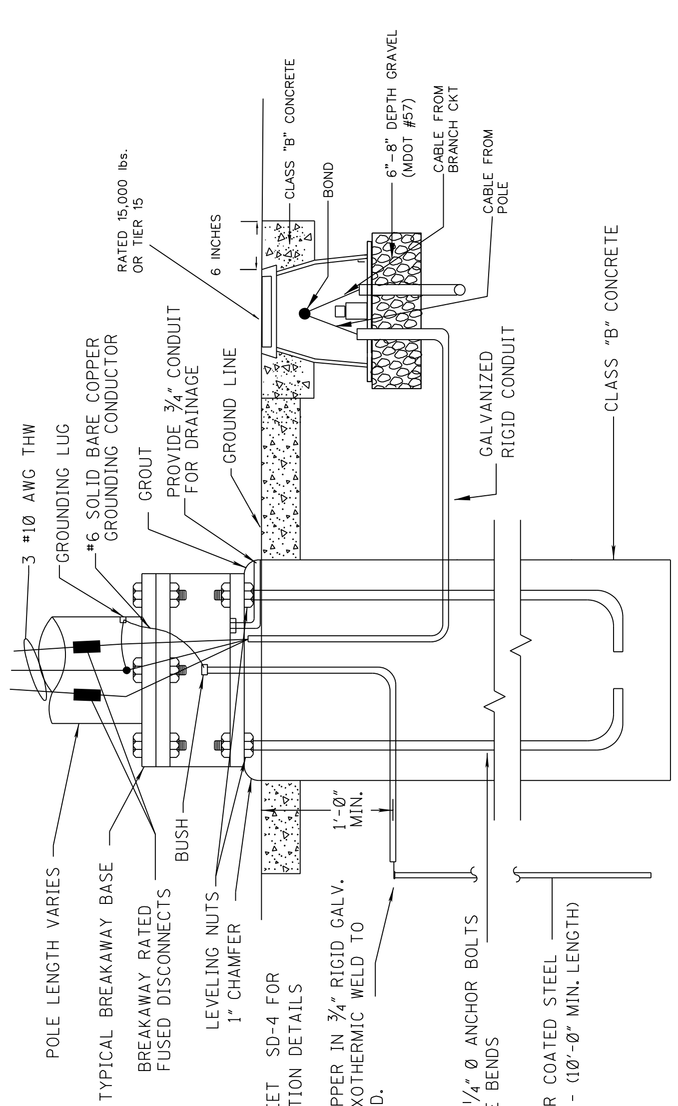
4 LD-4 **CONDUIT LOCATION ON BRIDGE**
N.T.S.



3 LD-4 **CONDUIT ATTACHMENT ON BRIDGE**
N.T.S.



PLAN VIEW
N.T.S.



1 LD-4 **SIDE VIEW**
FOUNDATION DETAIL TYPE LIGHTING ASSEMBLY
N.T.S.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

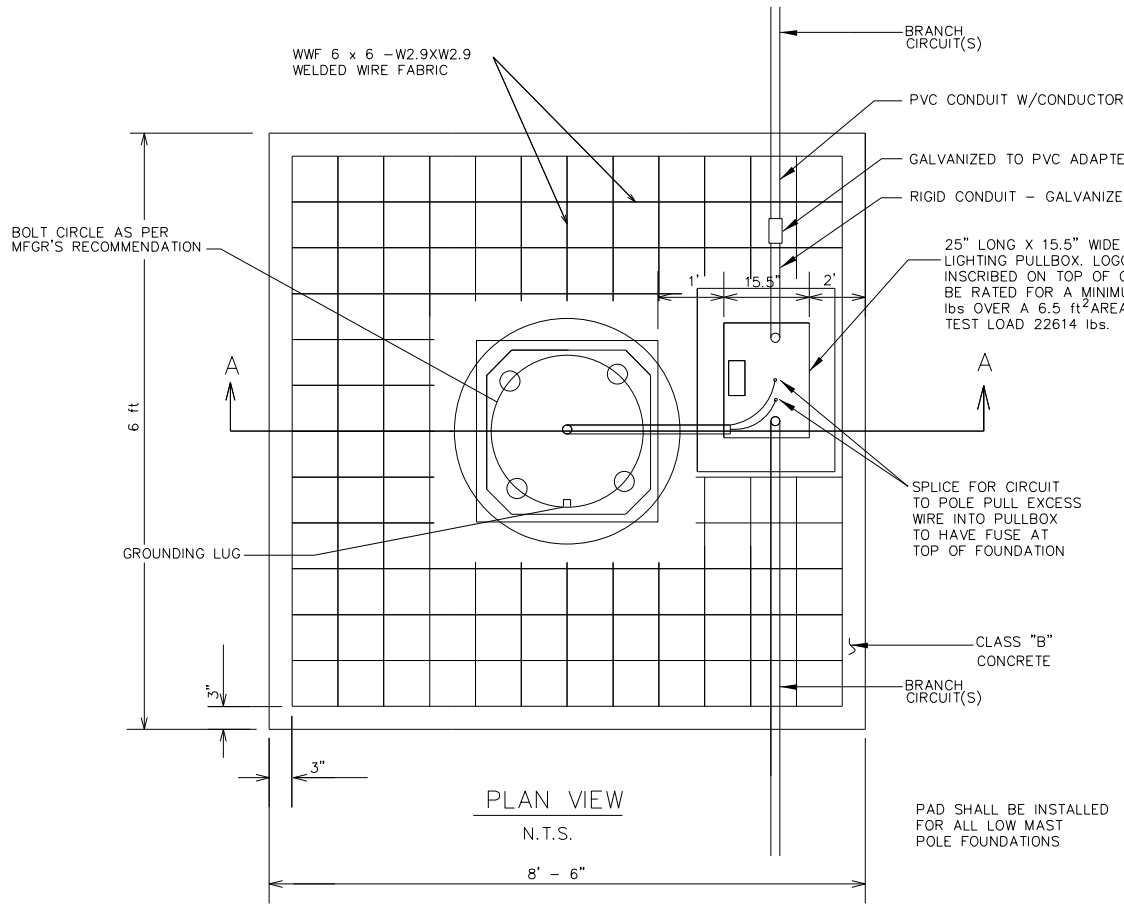
PRELIMINARY NOT FOR CONSTRUCTION

DATE	REVISION	BY

WORKING NUMBER LD-4
SHEET NUMBER

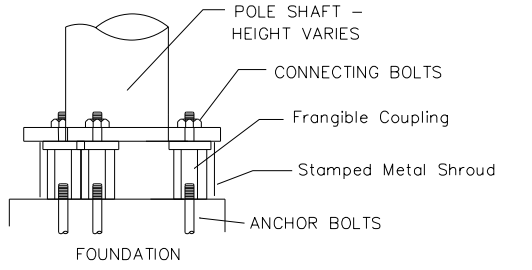
FILENAME: LD-4.DGN
DESIGN TEAM ____ CHECKED ____ DATE ____

STATE	PROJECT NO.
MISS.	

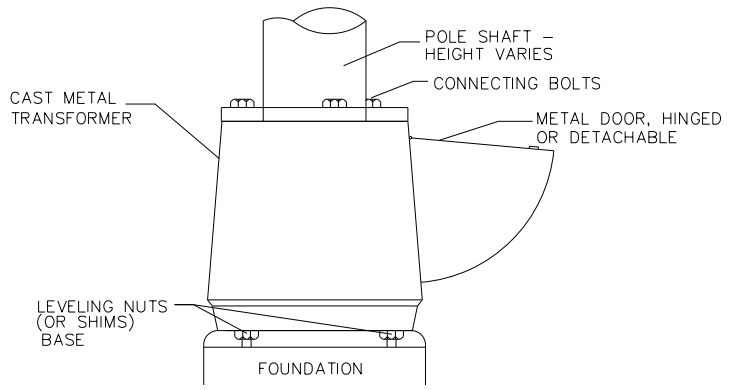


PLAN VIEW

N.T.S.



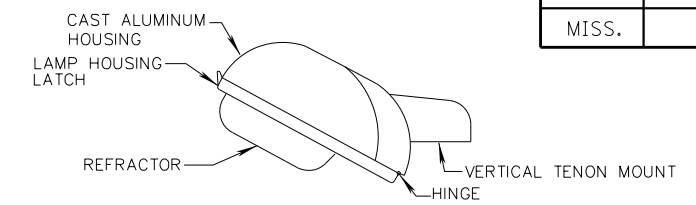
TYPICAL FRANGIBLE COUPLING



TYPICAL TRANSFORMER BASE

NOTES:

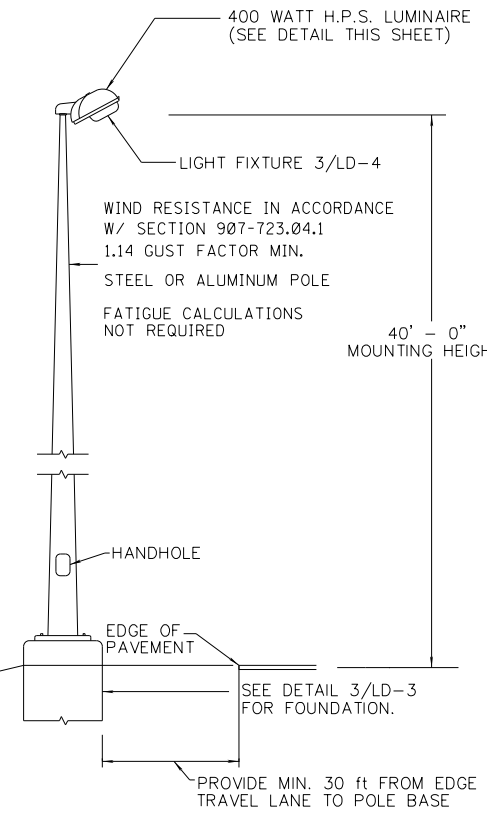
1. KEEPER PLATE IS FABRICATED #28 GUAGE GALVANIZED SHEET STEEL. ONE (1) FURNISHED WITH EACH POLE EQUIPPEDWITH SLIP BASE.
2. SLIP ANCHOR PLATE IS FABRICATED FROM STEEL PLATE COMFORMING TO ASTM A–36 WITH MINIMUM YIELD STRENGTH OF 36 ksi ONE (1) SLIP ANCHOR PLATE IS FURNISHED WITH EACH SLIP BASE EQUIPPED POLE.
3. BREAKWAY DEVICES MUST MEET THE REQUIREMENTS OF THE CURRENT ADDITION OF AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.
4. CONTRACTOR SHALL LIMIT THE AMOUNT OF WIRE USED IN THE BASE OF THE BREAKAWAY DEVICE SO THAT THE CIRCUIT WILL ELECTRICALLY DISCONNECT AS CLOSE AS POSSIBLE TO THE TOP OF THE FOUNDATION. WHEN STRUCK BY AN ERRANT VEHICLE.
5. CONDUIT PROJECTING INTO THE POLE SHALL BE CUT OFF LOW ENOUGH TO ENSURE IT DOES NOT EFFECT THE OPERATION OF THE BREAKWAY DEVICE. IN NO INSTANCE SHALL THE CONDUIT PROJECT ABOVE THE MAXIMUM 4 INCH STUB HEIGHT.



3 / LD-4 LUMINAIRE–LOWMAST LIGHTING ASSEMBLIES DETAIL

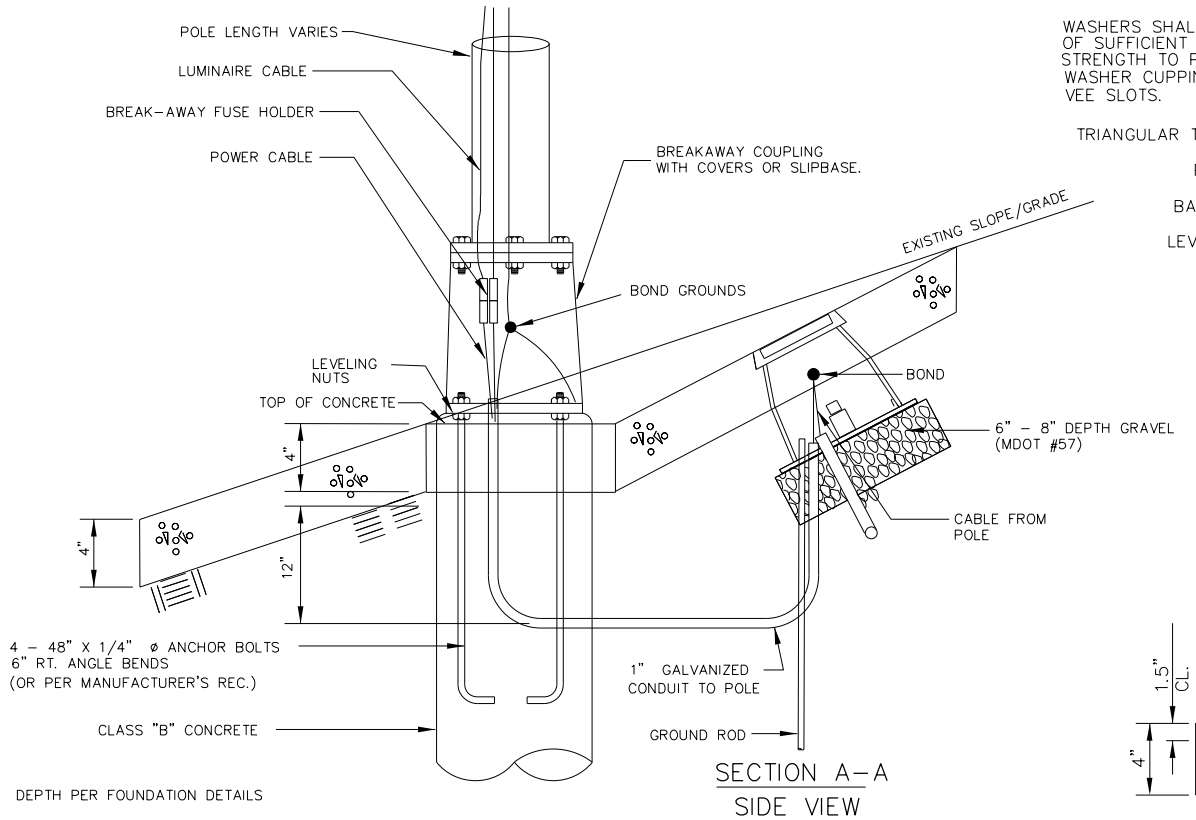
LUMINAIRE REQUIREMENTS - REFER TO SPECIFICATIONS

N.T.S.



4 / LD-4 TYPICAL LOWMAST LIGHTING ASSEMBLY

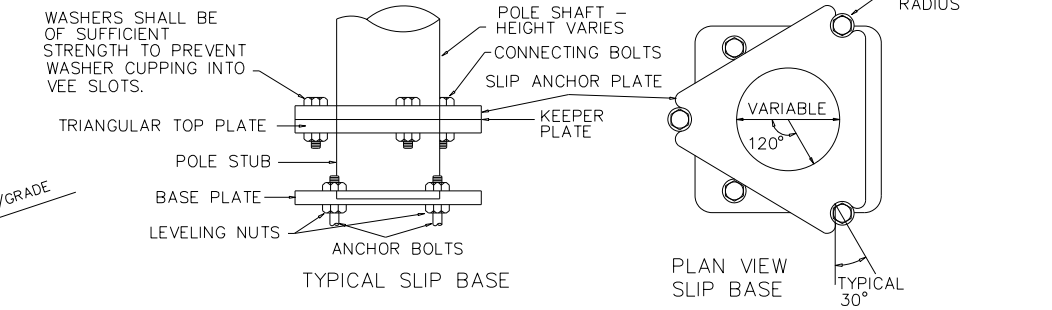
N.T.S.



SECTION A–A

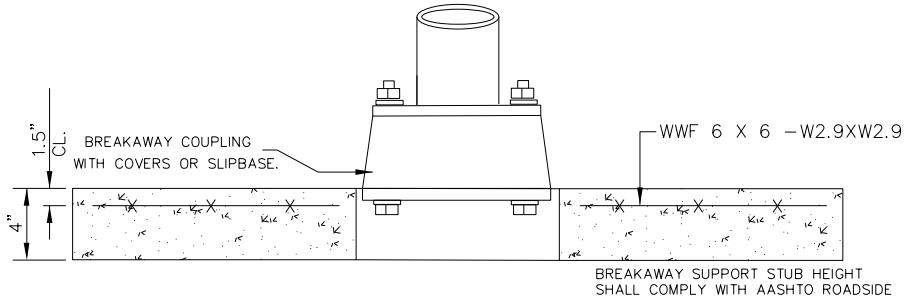
SIDE VIEW

1 / LD-4 FOUNDATION DETAIL LIGHTING ASSEMBLY



2 / LD-4 TYPICAL BREAKAWAY BASES

N.T.S.



MISSISSIPPI DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS

PRELIMINARY NOT FOR CONSTRUCTION

WORKING NUMBER LD–4

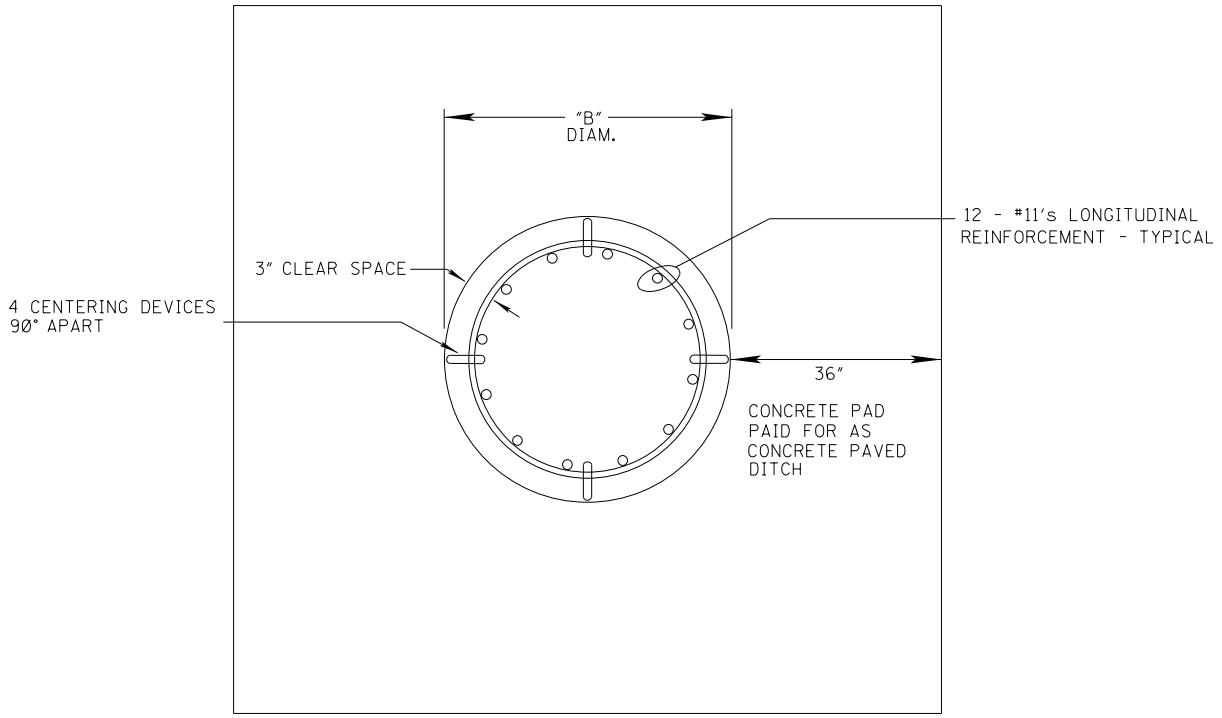
SHEET NUMBER

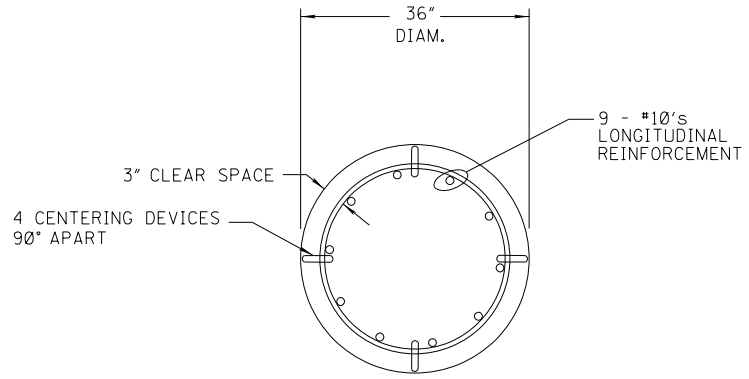
BY | REVISION | DATE

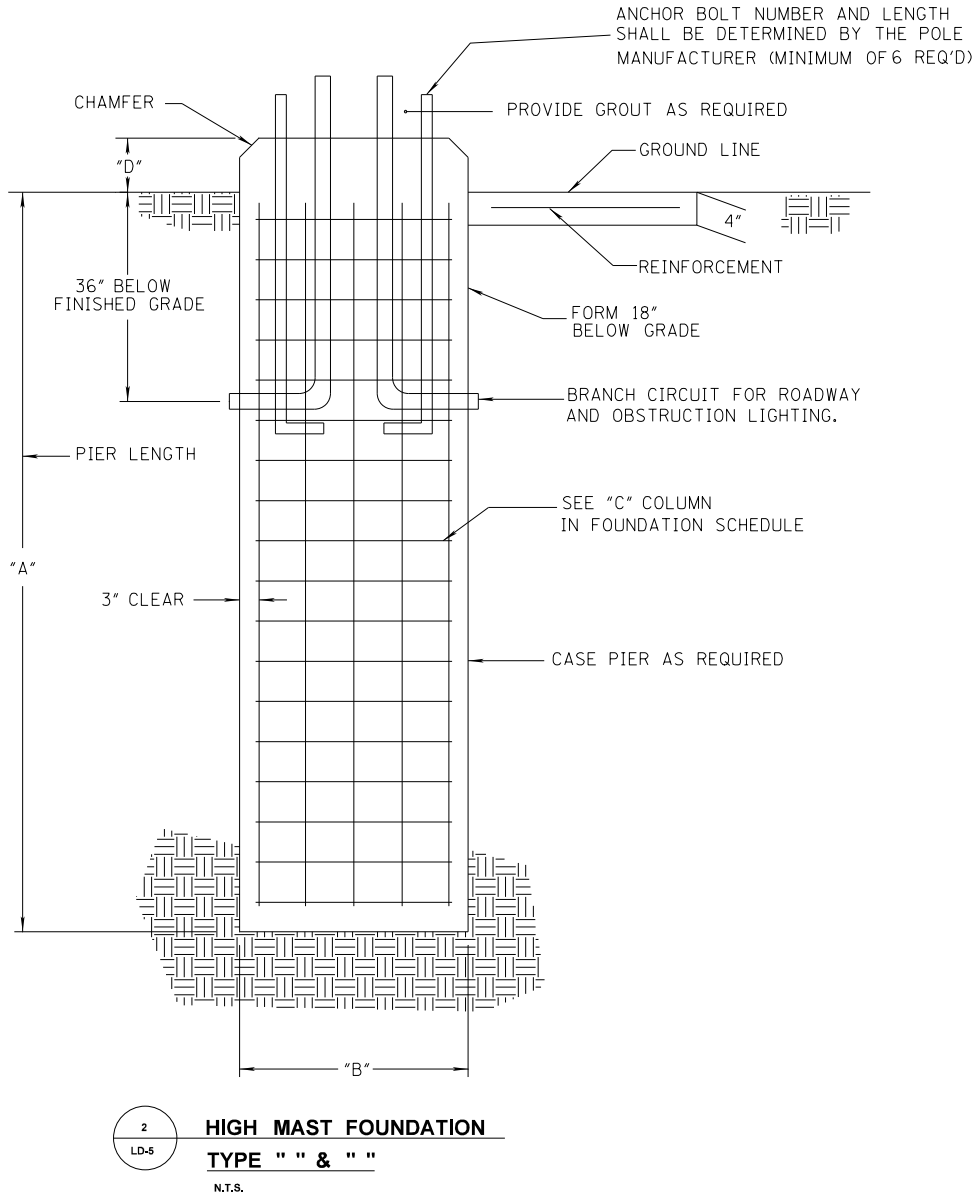
FILENAME: LD-4.DGN

DESIGN TEAM _____ CHECKED _____ DATE _____

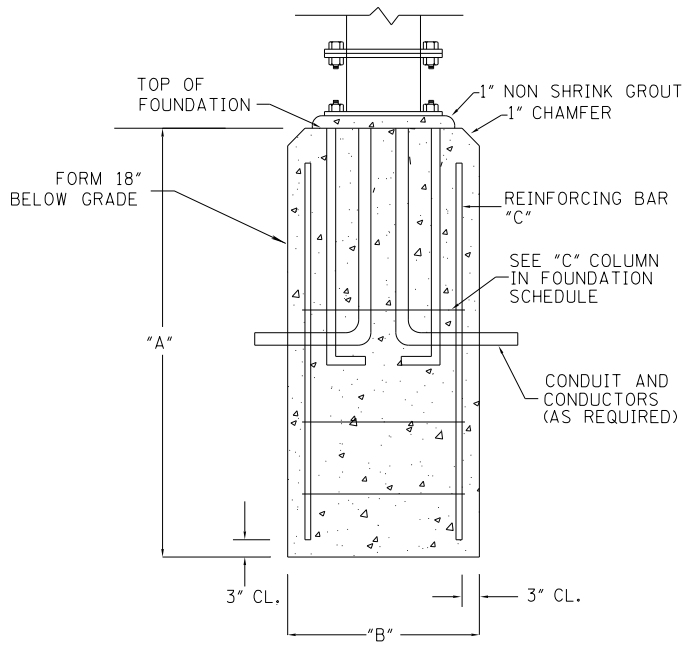
STATE	PROJECT NO.
MISS.	







2 LD-5 **HIGH MAST FOUNDATION TYPE " " & " "**
N.T.S.



1 LD-5 **FOUNDATION DETAIL TYPE " " & " "**
N.T.S.

FOUNDATION SCHEDULE

Pole	Type Assy.	A (ft.)	B (ft.)	C Reinforcement	D (in.)	Cubic Yard
					6"	
					6"	
					6"	
					0"	
					0"	

NOTE:
CASING IS A SEPARATE ITEM.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION
Lighing Details

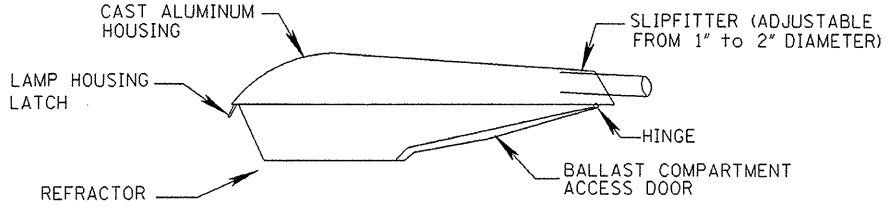
BY | REVISION | DATE

Project No.
County

FILENAME:
DESIGN TEAM CHECKED DATE

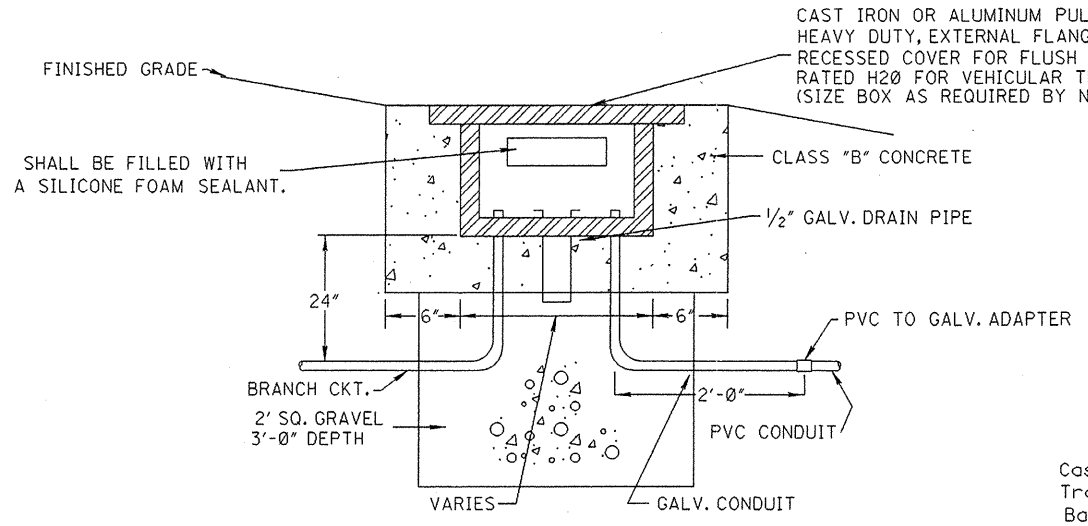
WORKING NUMBER
SHEET NUMBER

STATE	PROJECT NO.
MISS.	MP-6059-34(009)



1 SD-1 **LUMINAIRE-LOWMAST LIGHTING ASSEMBLIES DETAIL**

LUMINAIRE REQUIREMENTS - REFER TO SPECIFICATIONS
N.T.S.

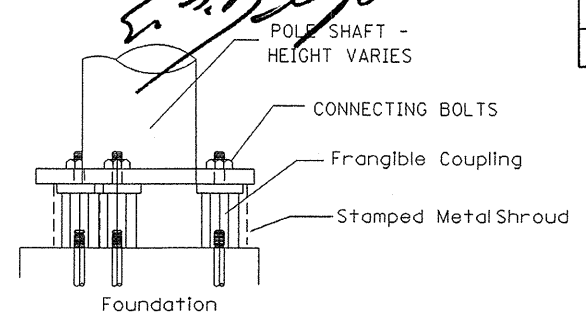


4 SD-1 **UNDERGROUND PULL BOX DETAIL**

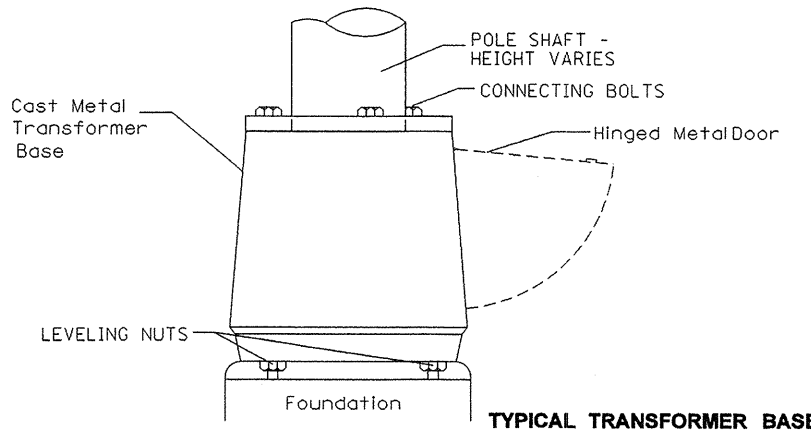
N.T.S.

NOTE: IF BOX IS NOT LEVEL (DUE TO GROUND CONTOUR) DRAIN IS TO BE LOCATED AT LOWEST POINT IN BOX.

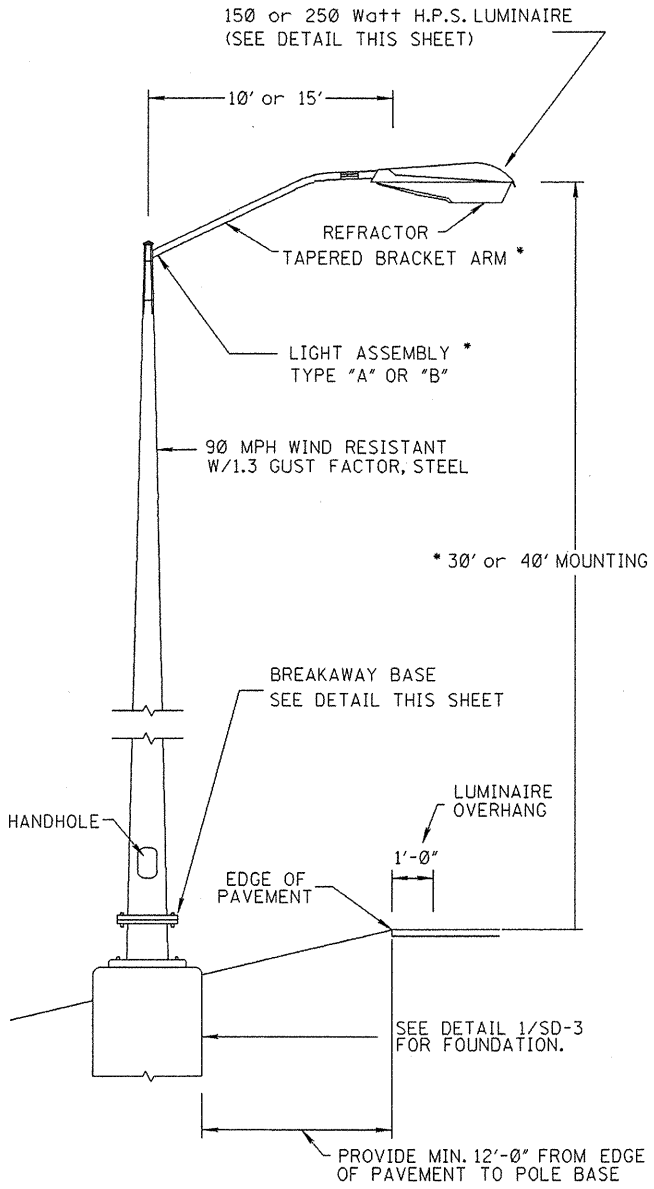
LOCATION TO BE APPROVED BY PROJECT ENGINEER



TYPICAL FRANGIBLE COUPLING



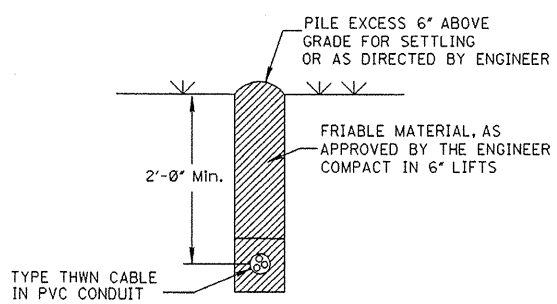
TYPICAL TRANSFORMER BASE



2 SD-1 **TYPICAL LOWMAST LIGHTING ASSEMBLY DETAIL**

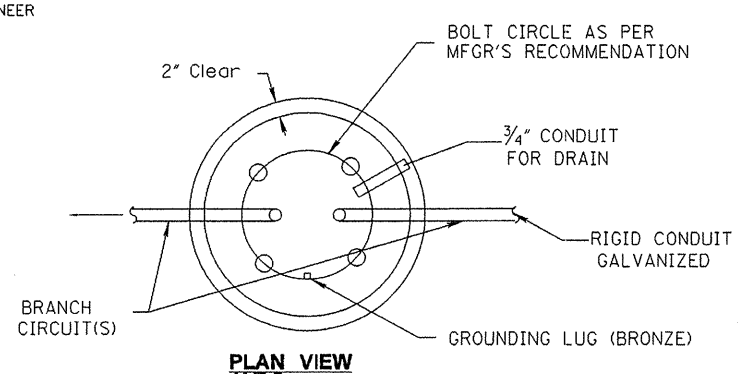
N.T.S.

* NEW ASSEMBLIES TO MATCH EXISTING ASSEMBLIES AS CLOSELY AS POSSIBLE. TO BE APPROVED BY ENGINEER.

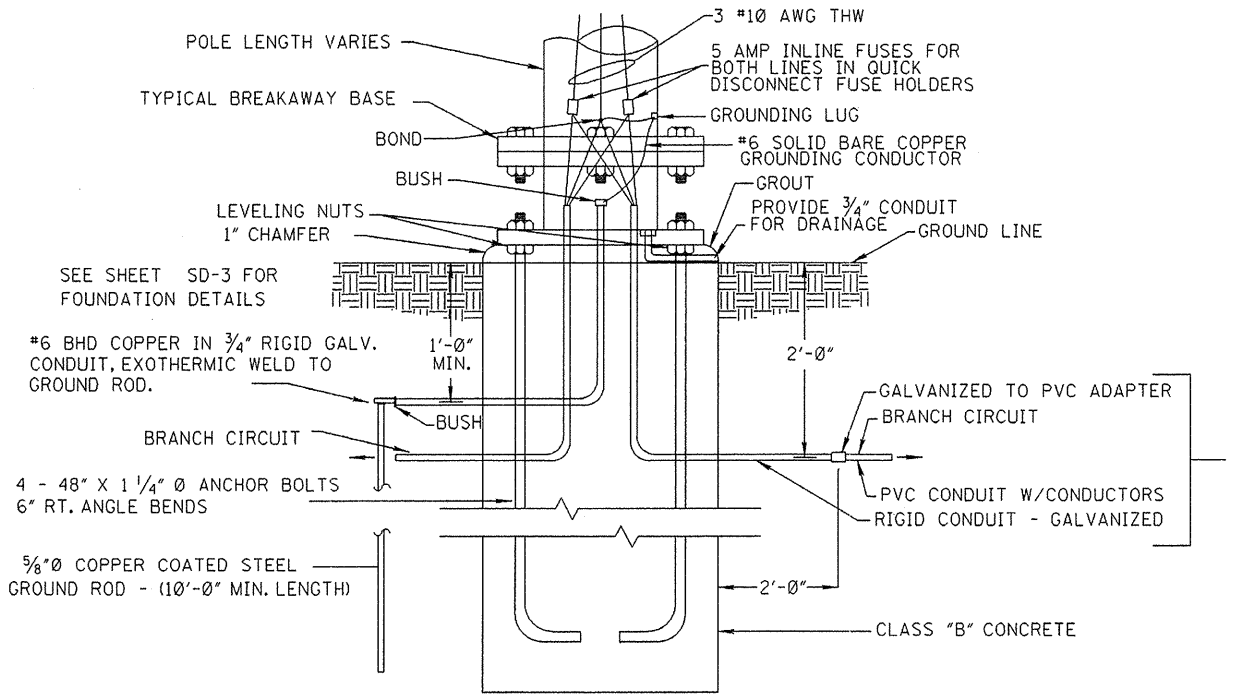


3 SD-1 **CABLE TRENCHING DETAIL**

N.T.S.



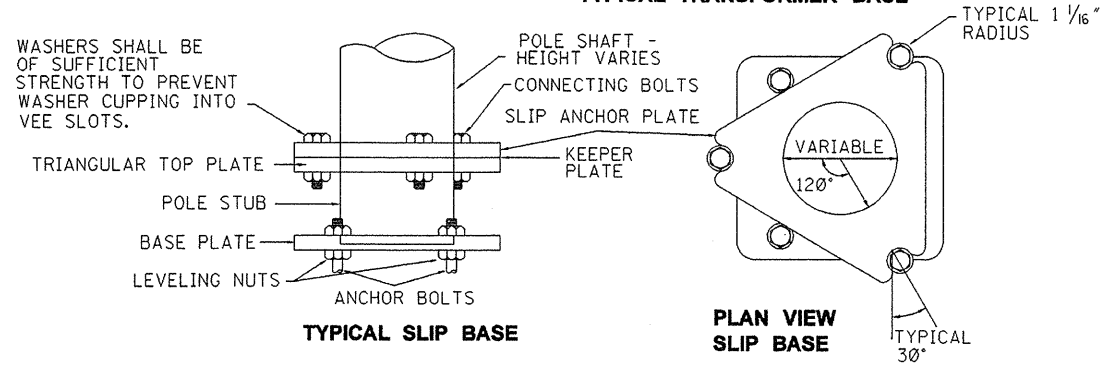
PLAN VIEW
N.T.S.



SIDE VIEW

5 SD-1 **FOUNDATION DETAIL FOR TYPE "A" & "B" LIGHTING ASSEMBLY**

N.T.S.



TYPICAL SLIP BASE

PLAN VIEW SLIP BASE

6 SD-1 **TYPICAL BREAKAWAY BASES**

N.T.S.

NOTES:

1. KEEPER PLATE IS FABRICATED FROM #28 GAUGE GALVANIZED SHEET STEEL ONE (1) FURNISHED WITH EACH POLE EQUIPPED WITH SLIP BASE
2. SLIP ANCHOR PLATE IS FABRICATED FROM STEEL PLATE COMFORMING TO ASTM A-36 WITH MINIMUM YIELD STRENGTH OF 36 KSI ONE (1) SLIP ANCHOR PLATE IS FURNISHED WITH EACH SLIP BASE EQUIPPED POLE.
3. BREAKWAY DEVICES MUST MEET THE REQUIREMENTS OF THE 1985 AASHTO STANDARD SPECIFICATIONS OF STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, AND NCHRP REPORT 350.
4. NEW ASSEMBLIES TO MATCH EXISTING ASSEMBLIES AS CLOSELY AS POSSIBLE. TO BE APPROVED BY PROJECT ENGINEER.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

Lighting Details

Project No. MP-6059-34(009)
County: Jones

WORKING NUMBER SD-1

FILENAME: SD1.DGN

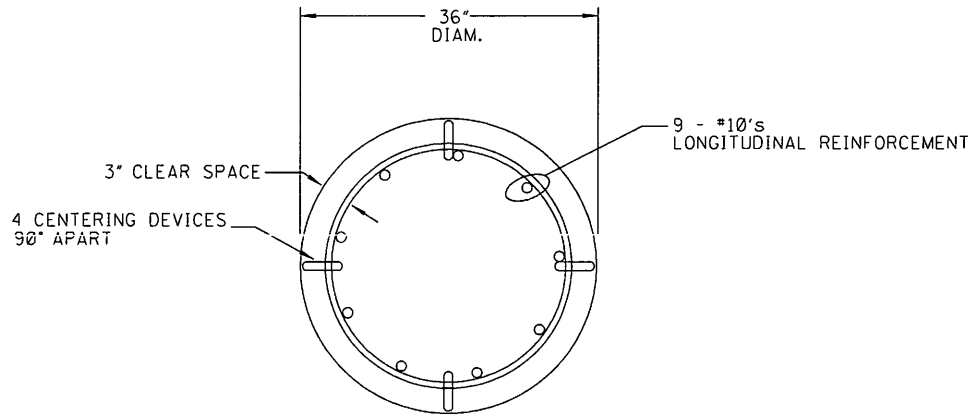
DESIGN TEAM SANSING CHECKED DATE

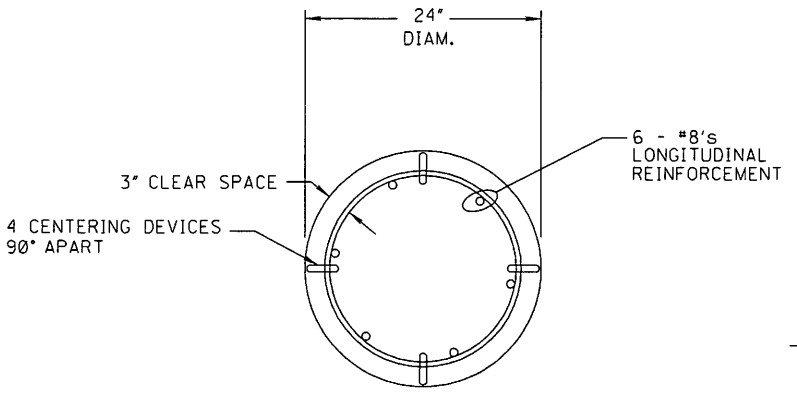
SHEET NUMBER 14

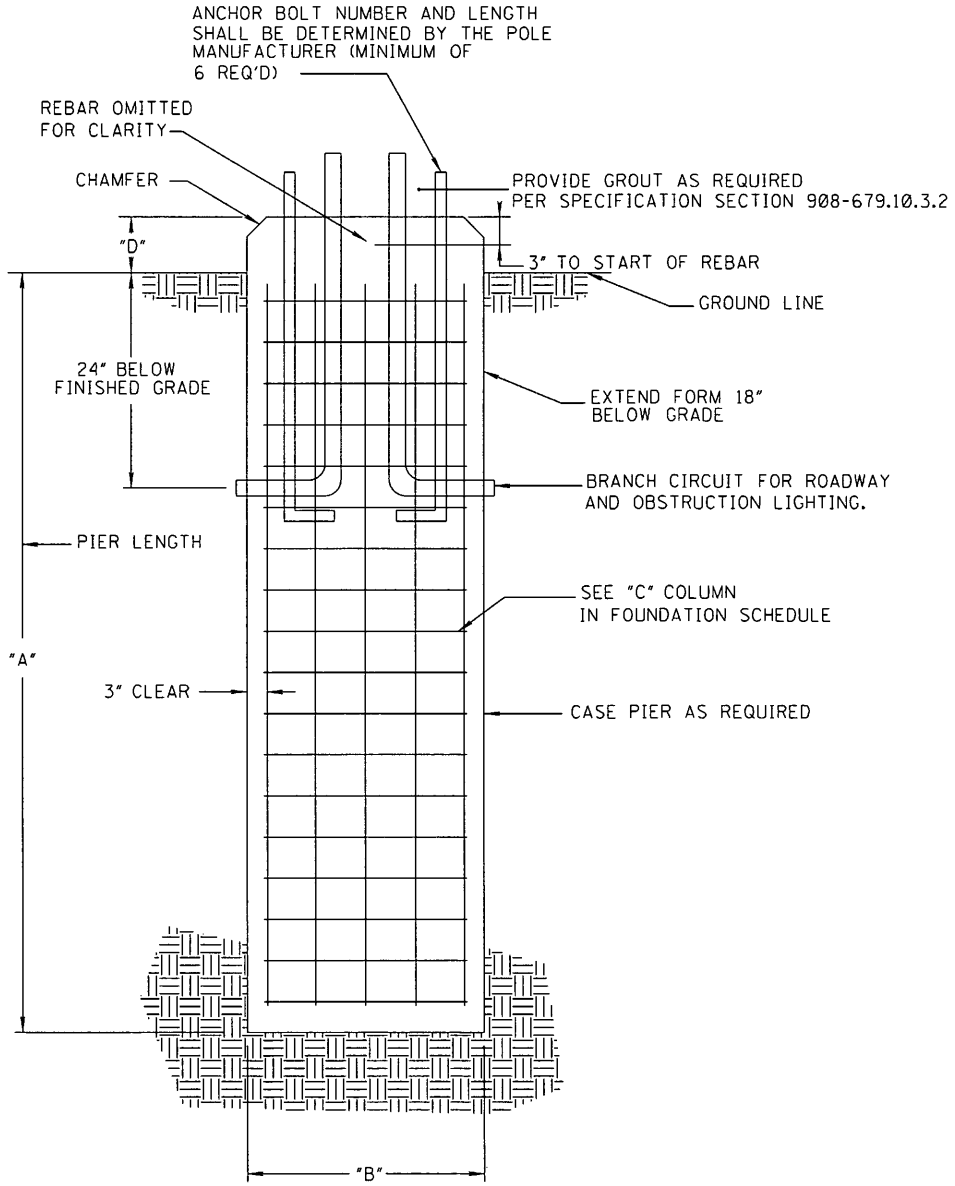
BY / REVISION / DATE

ROADWAY DESIGN DIVISION C.A.D.D. SECTION
MISSISSIPPI DEPARTMENT OF TRANSPORTATION

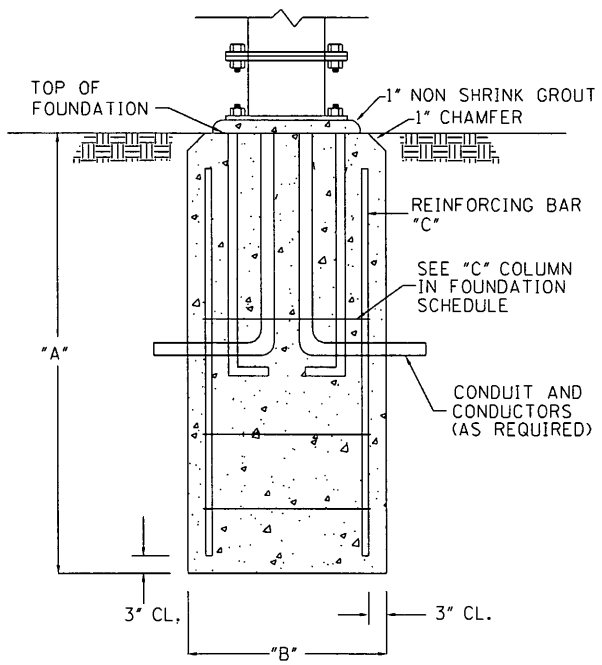
STATE	PROJECT NUMBER
MISS.	NH-0059-02 (063)







2 E12 **HIGH MAST FOUNDATION TYPE "A"**
N.T.S.



1 E12 **FOUNDATION DETAIL TYPE "B"**
N.T.S.

FOUNDATION SCHEDULE

Pole	Type Assy.	A (ft.)	B (ft.)	C Reinforcement	D (in.)	Cubic Yard
C1-C3	A	20'-0"	3'-0"	9 - #10 bars w/ #4 ties @ 12" on center	6"	5.367
H2	A	20'-0"	3'-0"	9 - #10 bars w/ #4 ties @ 12" on center	6"	5.367
A1' TO A11'	B	10'-0"	2'-0"	6 - #8 bars w/ #3 ties @ 12" on center	0"	1.163
E1 TO E12	B	10'-0"	2'-0"	6 - #8 bars w/ #3 ties @ 12" on center	0"	1.163

NOTE:
CASING IS A SEPARATE ITEM.

CONSTRUCTION NOTE:

1. FOR LOW AND HIGH MAST FOUNDATIONS, SUBMIT COMPLETE SHOP DRAWINGS PREPARED AND SIGNED BY A STRUCTURAL PROFESSIONAL ENGINEER LICENSED IN THE STATE OF MISSISSIPPI FOR REVIEW AND APPROVAL PRIOR TO ANY WORK.

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

ELECTRICAL DETAILS IV

REVISION | BY | DATE

PROJECT NO.: NH-0059-02 (063)
COUNTY: JONES
FILENAME: MS_I59_ED04.DGN
DESIGNED THF CHECKED ECF DATE MARCH 2006

WORKING NUMBER E12
SHEET NUMBER 100.05

THF MS_I59_ELEN1.DGN 1/18/06

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-683-1 **CODE: (SP)**

DATE: 01/17/2017

SUBJECT: Repair of Roadway Lighting System

Section 683, Lighting Assemblies, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction as amended by this special provision is applicable for Repair of Roadway Lighting Systems Only.

907-683.01--Description.

907-683.01.1--Repair and Restore High Mast Lighting Assembly. In addition to the requirements set forth in Section 681, the existing high mast lighting assemblies shall be repaired and restored to complete and working order. The existing lowering devices and luminaires indicated on the plans shall be removed and replaced with new equipment that meets current MDOT specifications.

The Contractor shall be required to modify the existing poles to accept the new lowering devices. This may include, but will not be limited to, the removal of internal mounting brackets, wire and circuit breakers, modifications to the pole and installation of new components. All plans to be approved by the Engineer prior to the Contractor commencing work. These repairs shall be paid for under Pay Item 907-683-G1.

907-683.01.2--Repair High Mast Lowering Device. Several lowering devices, as indicated on the plans, shall remain in place. These lowering devices and luminaires shall be inspected, cleaned, repaired, adjusted, re-leveled and re-lamped. These repairs shall be paid for under Pay Item 907-683-G2.

907-683.01.3--Repair and Restore Low Mast Lighting Assembly. The existing low mast lighting assemblies shall be repaired and restored to complete and working order. The existing wiring and fuses shall be removed and replaced with new equipment that meets current MDOT specifications. All low mast luminaires shall be cleaned and re-lamped. These repairs shall be paid for under Pay Item 907-683-H1.

907-683.02--Materials.

907-683.02.1--High Mast Poles. All existing high mast poles are to remain. All poles shall be inspected for signs of rust or corrosion. Any defects that are found shall be repaired. As a minimum the areas shall be cleaned and repainted with a zinc rich (cold galvanizing) paint to protect from further corrosion. All of these areas shall also have a final coat of paint colored to match, as close as possible, the rest of the pole surface.

The hand hole gasket shall be replaced with approved gasket material. Minimum size shall be 3/8” wide by 5/16” thick closed cell foam material.

Hand hole doors shall be inspected and repaired or replaced. Doors, hinges and hasps shall be adjusted to fit the hand hole and provide as weather tight a seal as possible. Hasps shall be repaired, cutting or welding to be done by qualified personnel. The hand hole door locks shall be replaced with new locks, keyed same as controller enclosures. The lock shall be keyed to Master Lock #2001.

Each pole shall be marked with a series of numbers indicating its controller, circuit and assembly number (i.e. 1 – 1 – HA1). These numbers shall be a minimum of three inches (3") tall and applied using retroreflective stick-on letters and numbers. The letters shall be Accuform Signs, Type NAC 403, 3-inch Reflective Yellow or approved equal.

Adaptors for the new lowering devices may be required on some poles. The Contractor may need to take field measurements to ensure the new device fits the existing pole. These components shall be submitted for approval along with the lowering device.

907-683.02.2--Low Mast Poles. All existing low mast poles, except where noted, are to remain. All poles shall be inspected for signs of rust or corrosion. Any defects that are found shall be repaired. The areas of corrosion shall be, as a minimum, cleaned and repainted with a zinc rich (cold galvanizing) paint to protect them from further corrosion. These areas shall also have a final coat of paint colored to match the rest of the pole surface.

Damaged hand hole covers shall be repaired and/or replaced.

Missing parts of the breakaway devices shall be replaced.

Each pole shall be marked with a series of numbers indicating its controller, circuit and assembly number (i.e. 1 – 1 – LA1). These numbers shall be a minimum of three inches (3") tall and applied using retroreflective stick-on letters and numbers. The letters shall be Accuform Signs, Type NAC 403, 3-inch Reflective Yellow or approved equal.

907-683.02.3--Portable Power Unit. The materials used in this construction shall meet the requirements of Subsection 723.07.

907-683.02.4--Lowering Device. Some existing lowering devices, as noted on the plans, shall be removed and disposed of by the Contractor. New lowering devices shall be installed. Contractor shall provide all parts necessary to mount the new winch to the pole. Any adaptors needed to mount the winch and head frame to the pole will be included with the lowering device. Not a separate pay item.

Some existing lowering devices, as noted on the plans, shall be retained. These lowering devices shall be cleaned, serviced, missing parts replaced and the luminaire mounting ring leveled.

907-683.02.4.1--General. The lowering device shall be capable of lowering the luminaires to approximately five (5) feet from ground level for maintenance purposes. The lowering device shall consist of the following assemblies:

(1) Head frame assembly

(2) Luminaire mounting ring assembly
(3) Winch assembly
(4) Hoisting cable assembly

907-683.02.4.2--Head Frame Assembly. The head frame assembly shall be galvanized steel with a weather tight spun aluminum cover. A roller or pulley assembly shall be provided for power cord travel.

Three (3) positive latches shall be provided to support the luminaire ring when the lowering device is not in operation. Reflecting flags, visible from the ground, shall indicate the locking and unlocking of each of the latches. All moving parts of the latches shall be serviceable from the ground. Moving parts shall not be impaired by formation of ice. Latches shall be cast aluminum alloy conforming to ASTM Designations: B 221 or A 36 steel. Latch pins shall be ASTM A 276 stainless steel.

Any adaptors needed to attach the head frame to a pole with either a top plate or tenon shall be included as part of the head frame.

907-683.02.4.3--Luminaire Mounting Ring Assembly. The ring assembly shall be hot dipped galvanized steel channel typically 6-inch x 2-inch, 7 gauge, with the proper number of 2-inch galvanized steel pipe luminaire mounting arms. The ring assembly shall be prewired with type ST distribution wiring, insulation rated at minimum 105ºC. A cast aluminum or stainless steel, hinged cover, weather tight junction box shall be provided with a prewired 600-volt terminal block and a weatherproof twist lock power inlet, for testing of luminaires at ground level. This box shall be aligned with the access hand hole cover.

The ring assembly shall be equipped with roller contact spring loaded guide arms to stabilize the ring on the pole while lowering device is in operation.

907-683.02.4.4--Winch Assembly. The winch shall be rated for 1500 pounds with a worm gear reduction minimum 30 to 1 ratio, and an integral friction drag brake to prevent free spooling. The winch shall be rated for intermittent motor operation or for hand crank operation. The 1/4-inch stainless steel hoisting cable shall be prewound on the winch. The winch drum shall be secured at both ends to prevent tilting or locking in the raise or lowering assemblies.

Any adaptors needed to install the winch assembly in an existing pole shall be included as part of the winch assembly, not a separate pay item.

907-683.02.4.5--Hoisting Cable Assembly. The hoisting cable shall be minimum 1/4-inch, 7 x 19 stainless steel. The three (3) suspension cables shall be minimum 3/16-inch stainless steel. The cable terminators shall be hot dipped galvanized.

Power cable shall be type SO and of a length and size as shown on plans.

Certain poles have hand holes and winches mounted higher than normal (above the retaining wall). The hoisting cable and power cable for these assemblies shall be of the correct length.

907-683.02.5--Luminaires. New high mast luminaires shall be installed on all new lowering devices. Photometrics shall be as indicated on the plans. Existing luminaires shall be cleaned and re-lamped.

Low mast luminaires shall be post top or mast arm mounted with 150 watt, 250 watt or 400 watt high pressure sodium lamps as required on the plans. Underpass luminaires shall be 70 watt or 150 watt high pressure sodium as required on the plans.

907-683.02.5.1--General. The high mast luminaires shall be of the enclosed ventilated type with a one (1) piece spun specular aluminum reflector, finished with an alzak or equivalent process. The reflector shall be encased in a spun and sealed aluminum cover or ribbed to provide additional structural integrity.

907-683.02.5.2--Ballast. The ballast for high mast luminaires shall be enclosed in a cast aluminum weather tight housing. Connections shall be through a quick disconnect plug. The ballast shall be fused with inline fuses sized as per manufacturer's recommendations. The ballast shall be copper wound.

Electrical characteristics shall closely conform to the following:

Ballast Type	Lead
Primary Voltage	480V
Secondary Voltage (open circuit)	400V
Power Factor	over 90%
Input Watts	1100
Wattage Regulation	±12% at 10% line volt variation
Minimum Ambient Starting Temperature	20ºF
Operating Line Current	2.35A

907-683.02.5.3--Mounting. The mounting for high mast and low mast luminaires shall be with an adjustable slipfitter for a 2-inch pipe bracket.

907-683.02.5.4--Lamp Socket. The lamp socket shall be heavy-duty, nickel-plated, porcelain enclosed with an integral lamp gripper and a lamp clamp of insulated stainless steel.

907-683.02.5.5--Photometrics. The luminaire shall provide Illuminating Engineering Society (I.E.S.) Type III or Type V cutoff distribution as shown on the plans and shall have an output efficiency of 60% bare lamp lumens.

The lamp arc tube shall be optically shielded above 90 degrees from the nadir. The maximum beam candle power for each shall be 22,200 at 80 degrees vertical for I.E.S. Type V.

Test reports with illumination data for each type distribution shall be provided with luminaire submittals. These reports must be certified, or conducted by an independent testing laboratory.

907-683.02.6--Lamps. Lamps for high mast luminaires shall be universal burning 1000-watt high pressure sodium. The lamp shall be mogul base and T-18 bulb designation. The lamp shall meet or exceed the following criteria:

Mean Lumens ---------- 126,000
Initial Lumens ---------- 140,000
Rated Average Life at 10 hr/start ---------- 24,000 HR

907-683.02.7--Miscellaneous. Ground rods shall be tested to ensure they still meet code requirements. Any rods that fail to meet current code requirements shall be augmented by a ¾" x 10' copper coated steel rod installed in accordance with Section 250 of the National Electrical Code.

Lightning rods, cable, bolts and other items making up the high mast lighting assembly shall be provided as per plans and manufacturer's recommendations.

All wiring, fuses and fuse holders on low mast lighting assemblies shall be replaced.

Other materials shall be provided as per plans (i.e. replace or repair hand hole doors, clean and galvanize anchor bolts, etc.) to provide a complete and operating lighting assembly. These items shall be included in the bid price to repair the high mast lighting assembly and are not a separate pay item.

All incidental items necessary for complete and working lighting assemblies shall be provided whether or not mentioned in these specifications.

907-683.03--Construction Requirements. All components of the high mast lighting assemblies shall be installed as shown in the plans, as per manufacturer's guidelines, or in accordance with these specifications.

All components of the low mast lighting assemblies shall be installed as shown in the plans, as per manufacturer's guidelines, or in accordance with this specification.

907-683.03.1--Field Assembly of All Components. Repair work will require poles to be taken down. Due care and caution will be taken to accomplish this. While on the ground the poles shall be properly supported to prevent warping. When the repairs are finished the poles shall be erected as described in this special provision. The sections shall be lashed together by an approved method which will not damage the pole during erection and to prevent the sections from slipping apart.

Cutting or welding shall be done by qualified personnel at the approval of the Engineer. Care shall be taken to ensure the structural integrity of the pole is not affected by the heat.

Wiring, lowering device, cables, and all components, except luminaires, shall be installed on the pole before erection, as per manufacturer's guidelines.

The Contractor shall submit eight (8) copies of a letter of certification from the high mast manufacturer on manufacturer's letterhead, certifying that all of the lowering devices, poles and luminaires on this project have been installed in accordance with the manufacturer's guidelines.

907-683.03.2--Setting and Aligning Poles. The pole shall be lifted at a point as far above center of gravity as possible. The lifting shall be smooth, continuous and free of abrupt motions. The base shall be placed on pre-leveled nuts and supported by the crane until anchor bolt nuts are tightened. Do not tie to poles using cables or chains which can damage finishes.

Poles shall be plumbed by the method shown on the plans. The plumbing shall be done early in the morning while minimum heat is affecting the pole and while there is no appreciable wind. After the pole is plumb the existing anchor bolt nuts shall be tightened and secured against loosening by tightening the nuts until there is an abrading or coining of the base plate under the nut.

Grout the space between the top of the foundation and the bottom of the base plate, maximum three (3) inch depth, making two (2) drainage openings with 3/4-inch PVC pipe for internal condensate drainage.

907-683.03.3--Cables. Care shall be taken to remove all twisting from hoisting cables before installation and/or operation of the lowering device.

907-683.04--Method of Measurement. Repair of High Mast Lighting, Repair of High Mast Lighting Assembly and Repair of Low Mast Lighting Assembly of the Type specified will be measured as a unit per each.

907-683.05--Basis of Payment. Repair of High Mast Lighting Assembly, measured as prescribed above, shall be paid for at the contract price per each, which price shall be full compensation for various work needed on each high mast lighting assembly; for furnishing all materials; for constructing, erecting, installing, connecting and testing; for installing new lowering devices, winches and adapters; for luminaires, lamps, conduits, wire, fuses and hardware; for final clean up; and for all equipment, labor, tools and incidentals necessary for completion of the work.

Repair of High Mast Lowering Device, measured as prescribed above, shall be paid for at the contract price per each, which price shall be full compensation for various work needed on each high mast lighting assembly; for furnishing all materials; for inspecting, cleaning, repairing, connecting and testing of luminaires, lamps, conduits, wire, fuses and hardware; for final clean up; and for all equipment, labor, tools and incidentals necessary for completion of the work.

Repair of Low Mast Lighting Assembly, measured as prescribed above, shall be paid for at the contract price per each, which price shall be full compensation for various work needed on each low mast lighting assembly; for furnishing all materials; for constructing, erecting, installing, connecting and testing; for luminaires, lamps, conduits, wire, fuses and hardware; for final clean up; and for all equipment, labor, tools and incidentals necessary for completion of the work.

Payment will be made under:

907-683-G1:	Repair of High Mast Lighting Assembly, Type	- per each
907-683-G2:	Repair of High Mast Lowering Device, Type	- per each
907-683-H1:	Repair of Low Mast Lighting Assembly, Type	- per each

MISSISSIPPI DEPARTMENT OF TRANSPORTATION

SPECIAL PROVISION NO. 907-683-5 **CODE: (SP)**

DATE: **07/29/2025**

SUBJECT: **Renovation of Roadway Lighting System**

PROJECT: **CRP-0059-02(121) / 109845301 – Jones County**

Section 683, Lighting Assemblies, of the 2017 Edition of the Mississippi Standard Specifications for Road and Bridge Construction as amended by this special provision is applicable for Renovation of Roadway Lighting Systems Only.

907-683.01--Description. In addition to the requirements set forth in Section 681, the existing high mast, low mast, and/or underpass lighting assemblies shall be renovated and updated with new Light Emitting Diode (LED) type luminaires. The existing luminaires shall be removed and replaced with new equipment that meets current MDOT specifications.

907-683.02--Materials.

907-683.02.1--Luminaires. New luminaires, wired for 480-volt operation and meeting the photometric requirements shown in the plans and in Subsection 723.07, shall be installed, leveled and aimed. The new luminaires shall be LED.

High mast luminaires shall be installed, leveled and aimed as shown in the plans. New wire shall be installed from the terminal box on the luminaire mounting ring to the new fixture. This wire shall be Type SO and rated for 105° C.

Low mast luminaires shall be installed and aimed as shown in the plans. New wire from the underground junction box to the fixture, breakaway fuse holders and fuses shall be installed. The wire shall be THHN or THWN, size AWG #10.

Underpass luminaires shall be installed and aimed as shown in the plans.

Existing High Pressure Sodium (HPS) luminaires shall be removed and disposed of by the contractor. Payment to be absorbed in this pay item.

907-683.02.2--Miscellaneous. AWG #10 wire may be solid or stranded.

All wiring, fuses, and fuse holders on low mast lighting assemblies shall be replaced.

All incidental items necessary for complete and working lighting assemblies shall be provided whether or not mentioned in these specifications.

907-683.03--Construction Requirements. All components of the lighting assemblies shall be installed as shown in the plans, as per manufacturer's guidelines, or in accordance with this specification.

All wiring connection shall be made with approved compression type connectors.

The high mast mounting rings shall be re-leveled after the luminaires have been installed. This shall be done per the lowering device manufacturer's guidelines. Leveling the mounting ring shall ensure the ring will latch and unlatch correctly for future maintenance operations and that the photometrics of the luminaires will be in accordance with the plans.

Low mast and underpass luminaires shall be installed as per the plans.

907-683.04--Method of Measurement. Renovation of Lighting Assembly of the type specified will be measured as a unit per each.

907-683.05--Basis of Payment. Renovation of Lighting Assembly, measured as prescribed above,will be paid for at the contract price per each, which price shall be full compensation for renovation and upgrades to existing lighting assemblies within the project including various work needed on each lighting assembly; for purchasing, installing and testing,for furnishing all materials; for removal and disposal of existing luminaires; for constructing, erecting, installing, connecting and testing; for luminaires, wire, fuses and hardware; for final clean up; and for all equipment, labor, tools and incidentals necessary to return all lighting assemblies to full service.

Payment will be made under:

907-683-G1:	Renovation of High Mast Lighting Assembly, Type	- per each
907-683-H1:	Renovation of Low Mast Lighting Assembly, Type	- per each
907-683-I1:	Renovation of Underpass Lighting Assembly, Type	- per each

Upgrades & Repairs to the High & Low Mast Lighting System on I-59 from 0.65 miles south of MS 15 / 16th Avenue to 0.4 miles north of US 84 East / Chantilly Street, known as Federal Aid Project No. CRP-0059-02(121) / 109845301 in Jones County.

Line No.	Item Code	Adj Code	Quantity	Units	Description [Fixed Unit Price]
			Roadway Items		
0010	202-B176		1	Each	Removal of Lighting Controllers
0018	202-B177		12	Each	Removal of Low Mast Lighting Assembly
0020	202-B179		12	Each	Removal of Low Mast Lighting Foundation
0030	620-A001		1	Lump Sum	Mobilization
0040	682-A010		600	Linear Feet	Underground Branch Circuit, AWG 10, 3 Conductor
0050	682-A018		100	Linear Feet	Underground Branch Circuit, AWG 2, 3 Conductor
0060	682-A028		100	Linear Feet	Underground Branch Circuit, AWG 4, 3 Conductor
0070	682-A034		100	Linear Feet	Underground Branch Circuit, AWG 6, 3 Conductor
0080	682-A038		100	Linear Feet	Underground Branch Circuit, AWG 8, 2 Conductor
0090	682-B010		200	Linear Feet	Underground Branch Circuit, Jacked or Bored, AWG 10, 3 Conductor
0100	682-B016		100	Linear Feet	Underground Branch Circuit, Jacked or Bored, AWG 2, 3 Conductor
0110	682-B025		100	Linear Feet	Underground Branch Circuit, Jacked or Bored, AWG 4, 3 Conductor
0120	682-B032		100	Linear Feet	Underground Branch Circuit, Jacked or Bored, AWG 6, 3 Conductor
0130	682-B037		100	Linear Feet	Underground Branch Circuit, Jacked or Bored, AWG 8, 3 Conductor
0140	682-E003		14	Each	Underground Junction Box With Concrete Pad
0150	682-F001		1	Each	Secondary Power Controller
0160	683-B195		10	Each	Lighting Assembly, Low Mast, LED, Type 40-1-15-171
0170	683-B200		2	Each	Lighting Assembly, Low Mast, LED, Type 30-1-10-17
0180	684-A003		14	Cubic Yard	Pole Foundation, 24" Diameter
0190	907-618-A001		1	Lump Sum	Maintenance of Traffic
0200	907-618-M2001		1,000	Hours	Work Zone Law Enforcement [$60.00]
0210	907-683-G1004		10	Each	Renovation of High Mast Lighting Assembly, Type 100-4-S
0220	907-683-G1006		2	Each	Renovation of High Mast Lighting Assembly, Type 130-4-S
0230	907-683-G1012		2	Each	Renovation of High Mast Lighting Assembly, Type 130-5-S
0240	907-683-G1013		1	Each	Renovation of High Mast Lighting Assembly, Type 100-5-S
0250	907-683-G1015		4	Each	Renovation of High Mast Lighting Assembly, Type 100-5-A
0260	907-683-G1016		4	Each	Renovation of High Mast Lighting Assembly, Type 130-5-A
0270	907-683-G2001		1	Each	Repair of High Mast Lowering Device, Type 100-4-S
0280	907-683-H1002		50	Each	Renovation of Low Mast Lighting Assembly, Type 40-1-10-255
0290	907-683-H1010		4	Each	Renovation of Low Mast Lighting Assembly, Type 30-1-10-255
0300	907-683-I1001		30	Each	Renovation of Underpass Lighting Assembly, Type A