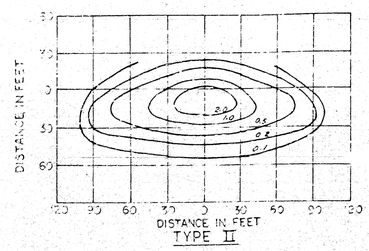
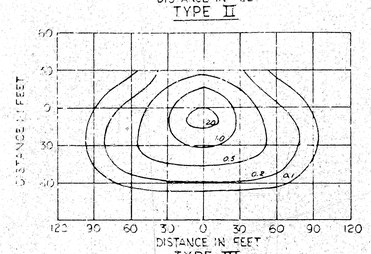


TYPE II



TYPE III

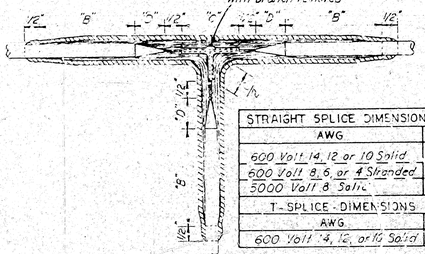
Shielded Highway Lighting Luminaire 30' Mounting Height. 20,000 Lumen Mercury Vapor Lamp

ISOLUX LINES OF MINIMUM HORIZONTAL FOOT CANDLES

Scale: 1" = 50'

STRAIGHT SPLICE (600 V to 5000 V)

Use 4-way pressure sleeve connector with branch removed



STRAIGHT SPLICE DIMENSIONS - Inches		
AWG	"B"	"D"
600 Volt 14, 12 or 10 Solid	2"	1/2"
600 Volt 8, 6, or 4 Stranded	2 1/2"	1/2"
5000 Volt 8 Solid	3 1/4"	1"

T-SPLICE - DIMENSIONS Inches		
AWG	"B"	"D"
600 Volt 14, 12, or 10 Solid	2"	1/2"

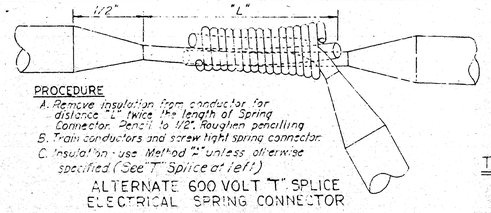
"C" = Connector length

600 VOLT "T" SPLICE

(Up to 10 AWG only)

PROCEDURE

A. Remove insulation from each conductor to distance 1/2 C + 1/2" and pencil to dimension "D". Roughen pencilling.
B. Train conductors and block connector, centering over butted cable ends.
C. Crimp and solder connector.
D. Insulate according to Method "A" unless otherwise specified.



PROCEDURE

A. Remove insulation from conductor for distance "L" twice the length of Spring Connector. Pencil to 1/2". Roughen pencilling.
B. Train conductors and screw tight spring connector.
C. Insulation - use Method "A" unless otherwise specified (See "T" Splice at left)

ALTERNATE 600 VOLT "T" SPLICE
ELECTRICAL SPRING CONNECTOR

(No. 14 AWG and larger)

INSULATING METHOD "A"

1. Apply one coat of approved rubber cement, allow to dry.

For Circuits Up to 2,000 Volts

2. Apply self-fusing synthetic rubber tape to a thickness equal to original insulation.

For Circuits Above 2,000 Volts

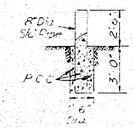
2. Apply self-fusing, ozone resistant, natural rubber tape to a thickness equal to original insulation.
3. Apply two layers of self-fusing synthetic rubber tape, half lapped.
4. Rubber tapes shall be rolled, after application with concave roller.

INSULATING METHOD "B"

1. Apply two layers, 1/2 lap, synthetic, oil resistant, self fusing rubber tape.
2. Apply .007" thick P.V.C. tape to thickness equal to original insulation.
3. Apply two layers of asphalt-impregnated, open-meshed fabric tape.
4. Coat splice with same compound as in tape and fuse in.

SPLICING DETAILS

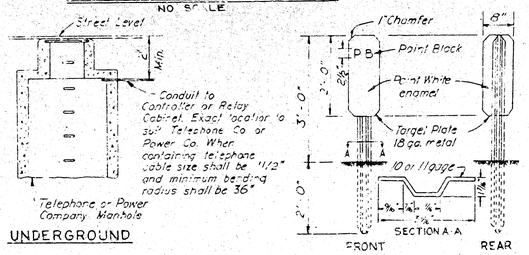
NO SCALE



TYPICAL GUARD POST

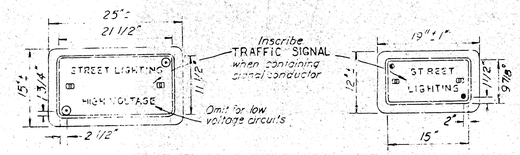
SYMBOLS

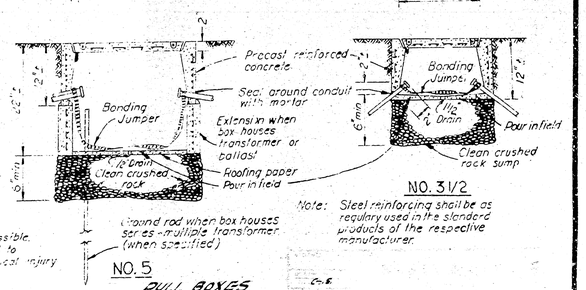
PROPOSED	EXISTING	
		Signal conduit
		Lighting conduit
		Pull box
		Electrolier, mast arm type (Type X standard)
		Electrolier, upright type
		Power pole
		Telephone pole
		Fire hydrant
		Overhead conductor



UNDERGROUND

(Type A Guide Post - No Reflectors)





NO. 5

NO. 3 1/2

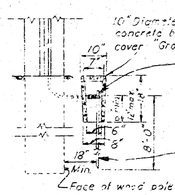
Note: Steel reinforcing shall be as regularly used in the standard products of the respective manufacturer.

PULL BOX MARKER

NO SCALE

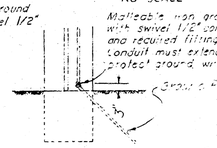
PULL BOXES

NO SCALE

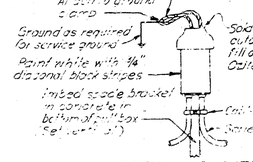


TYPE B (Installation as indicated) (on plans)

Note:
When water pipe is used for ground, wire shall be imbedded in galvanized rigid conduit, or equivalent mechanical protection.
Ground rod of the following minimum requirements shall be used. Depth below ground surface - 8'-0"
Diameter of rod: 3/4" if galvanized rod or pipe.
1/2" if solid rod of brass, copper or copper covered steel.



TYPE A

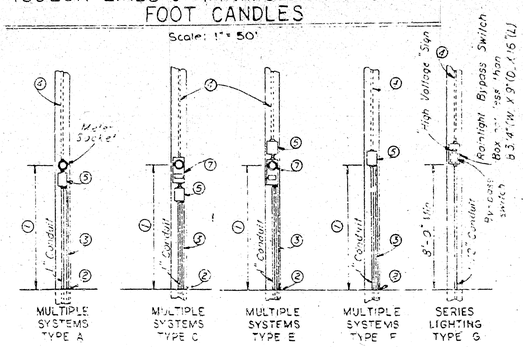


GROUNDING CUTOUT

(Use only when Specified)

SERVICE GROUNDING DETAILS

NO SCALE



1. Height of service equipment to be obtained from serving utility.
2. See grounding details at right for Types A, C, E & F.
3. Grounding conductor raceway shall be 1/2" conduit or hardwood moulding.
4. If service pole is utility owned service conductors, raceway and entrance fittings shall be furnished by contractor and installed by serving utility. On State owned poles contractor shall also install the service conductors, raceway and entrance fittings. Service riser conduit shall be terminated with a service head or shall be sealed to prevent the entrance of water, as approved by the serving utility.
5. Switch as specified, in Rainlight Cabinet.
6. Switch as specified, Flasher Mechanism in 18"x10"x4 1/2" rainlight box.
7. Meter Socket Box as approved by serving utility with either manual circuit closing device or space for test block, as specified.

SERVICE DETAILS

NO SCALE

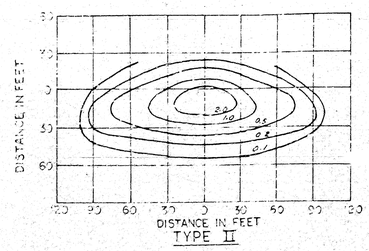
C.S.
H.A.N.
62-83
AS Shown
December, 1962
R.L.D. 86-13

"E" STREET
STANDARD DETAILS, HIGHWAY LIGHTING INSTALLATIONS

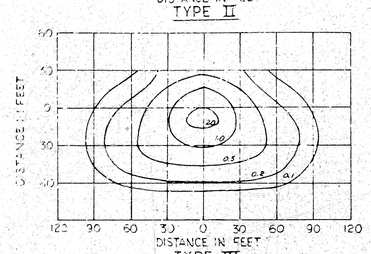
Norman H. Nash
Aug 15, 63
Aug 13 1980
Asst.
DHBC

3027
7
7

GAS TAX PROJECT NO. 230



TYPE II



TYPE III

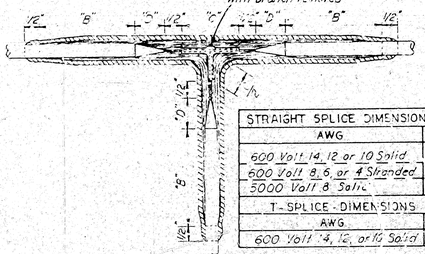
Shielded Highway Lighting Luminaire 30' Mounting Height. 20,000 Lumen Mercury Vapor Lamp

ISOLUX LINES OF MINIMUM HORIZONTAL FOOT CANDLES

Scale: 1" = 50'

STRAIGHT SPLICE (600 V to 5000 V)

Use 4-way pressure sleeve connector with branch removed



STRAIGHT SPLICE DIMENSIONS - Inches		
AWG	"B"	"D"
600 Volt 14, 12 or 10 Solid	2"	1/2"
600 Volt 8, 6, or 4 Stranded	2 1/2"	1/2"
5000 Volt 8 Solid	3 1/4"	1"

T-SPLICE - DIMENSIONS Inches		
AWG	"B"	"D"
600 Volt 14, 12, or 10 Solid	2"	1/2"

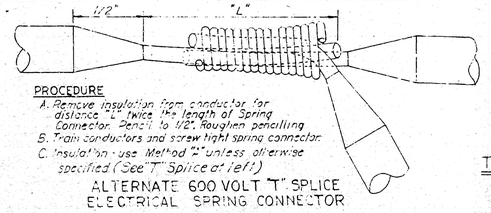
"C" = Connector length

600 VOLT "T" SPLICE

(Up to 10 AWG only)

PROCEDURE

A. Remove insulation from each conductor to distance 1/2 C + 1/2" and pencil to dimension "D". Roughen pencilling.
B. Train conductors and block connector, centering over butted cable ends.
C. Crimp and solder connector.
D. Insulate according to Method "A" unless otherwise specified.



PROCEDURE

A. Remove insulation from conductor for distance "L" twice the length of Spring Connector. Pencil to 1/2". Roughen pencilling.
B. Train conductors and screw tight spring connector.
C. Insulation - use Method "A" unless otherwise specified (See "T" Splice at left)

ALTERNATE 600 VOLT "T" SPLICE
ELECTRICAL SPRING CONNECTOR

(No. 14 AWG and larger)

INSULATING METHOD "A"

1. Apply one coat of approved rubber cement, allow to dry.

For Circuits Up to 2,000 Volts

2. Apply self-fusing synthetic rubber tape to a thickness equal to original insulation.

For Circuits Above 2,000 Volts

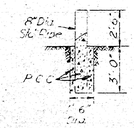
2. Apply self-fusing, ozone resistant, natural rubber tape to a thickness equal to original insulation.
3. Apply two layers of self-fusing synthetic rubber tape, half lapped.
4. Rubber tapes shall be rolled, after application with concave roller.

INSULATING METHOD "B"

1. Apply two layers, 1/2 lap, synthetic, oil resistant, self fusing rubber tape.
2. Apply .007" thick P.V.C. tape to thickness equal to original insulation.
3. Apply two layers of asphalt-impregnated, open-meshed fabric tape.
4. Coat splice with same compound as in tape and fuse in.

SPLICING DETAILS

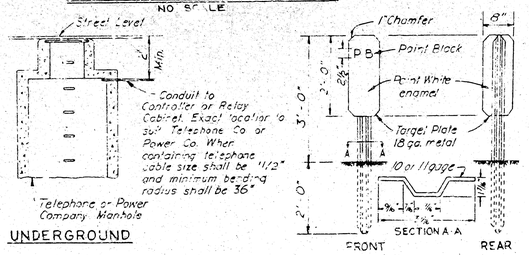
NO SCALE



TYPICAL GUARD POST

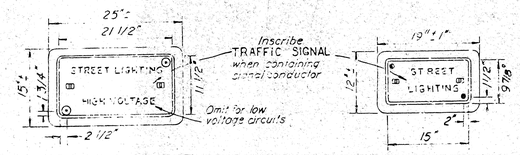
SYMBOLS

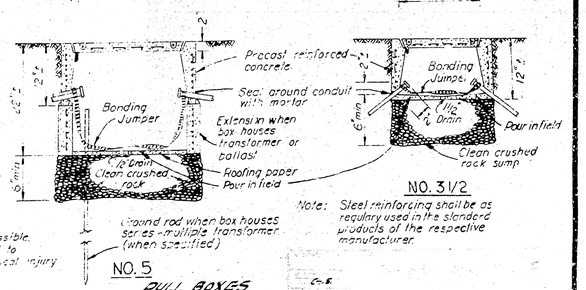
PROPOSED	EXISTING	
		Signal conduit
		Lighting conduit
		Pull box
		Electrolier, mast arm type (Type X standard)
		Electrolier, upright type
		Power pole
		Telephone pole
		Fire hydrant
		Overhead conductor



UNDERGROUND

(Type A Guide Post - No Reflectors)





NO. 5

NO. 3 1/2

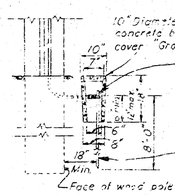
Note: Steel reinforcing shall be as regularly used in the standard products of the respective manufacturer.

PULL BOX MARKER

NO SCALE

PULL BOXES

NO SCALE



TYPE B (Installation as indicated) (on plans)

Note:
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Diameter of rod: 3/4" if galvanized rod or pipe.
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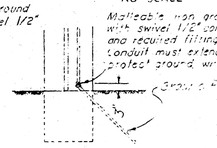
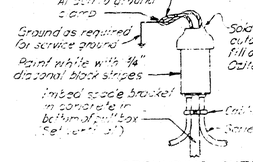


TYPE A

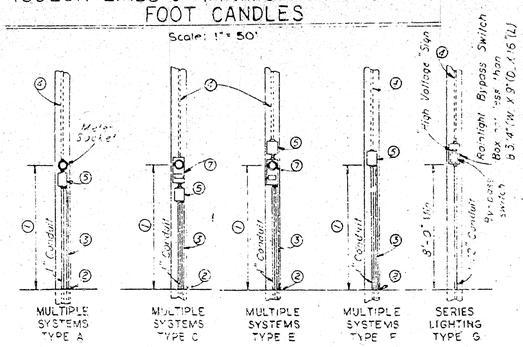


GROUNDING CUTOUT

(Use only when Specified)

SERVICE GROUNDING DETAILS

NO SCALE



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6. Switch as specified, Flasher Mechanism in 18"x10"x4 1/2" rainlight box.
7. Meter Socket Box as approved by serving utility with either manual circuit closing device or space for test block, as specified.

SERVICE DETAILS

NO SCALE

C.S.
H.A.N.
62-83
AS Shown
December, 1962
R.L.D. 86-13

"E" STREET
STANDARD DETAILS, HIGHWAY LIGHTING INSTALLATIONS

Norman H. Nash
Aug 15, 63
Aug 13 1980
Asst.
DHBC

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7
7

GAS TAX PROJECT NO. 230