

STATE OF TEXAS
TEXAS DEPARTMENT OF TRANSPORTATION

PLANS OF PROPOSED
STATE HIGHWAY IMPROVEMENT

STATE PROJECT NO. CONTROL NO. HIGHWAY LENGTH
NH () 0502-01-214 SH 225 3.660 mi
HARRIS COUNTY

LIMITS: BELTWAY 8 TO BATTLE GROUND ROAD

SCOPE: FOR THE CONSTRUCTION OF MISCELLANEOUS WORK
CONSISTING OF INSTALLATION OF HIGH MAST,
CONDUIT, CONDUCTORS AND ELECTRICAL SERVICES



STATE HIGHWAY 225

BEGIN PROJECT
STA. 400+00
CSJ: 0502-01-214
MILE POINT: 6.408
REF. MARKER: 690+0.138

END PROJECT
STA. 593+00
CSJ: 0502-01-214
MILE POINT: 12.399
REF. MARKER: 690+0.518

ATTACHMENT NO. 01-17 TO SPECIAL AGREEMENT FOR CONSTRUCTION, MAINTENANCE AND OPERATION OF CONTINUOUS HIGHWAY ILLUMINATION SYSTEM WITHIN MUNICIPALITIES, DATED ,20 . THE CITY-STATE CONSTRUCTION, MAINTENANCE, AND OPERATION RESPONSIBILITIES SHALL BE AS HERETOFORE AGREED TO, ACCEPTED, AND SPECIFIED IN THE AGREEMENT TO WHICH THESE PLANS ARE MADE APART.

SPECIFICATIONS ADOPTED BY THE TEXAS DEPARTMENT OF TRANSPORTATION, JUNE 1, 2004 AND THE SPECIFICATION ITEMS LISTED AND DATED AS FOLLOWS SHALL GOVERN ON THIS PROJECT: REQUIRED CONTRACT PROVISIONS, FEDERAL-AID CONSTRUCTION CONTRACTS (FORM FHWA 1273, MARCH 1994)

RAILROAD CROSSINGS: NONE
EXCEPTIONS: NONE
EQUATIONS: NONE

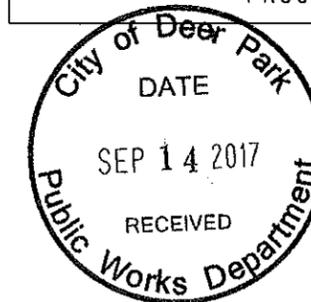
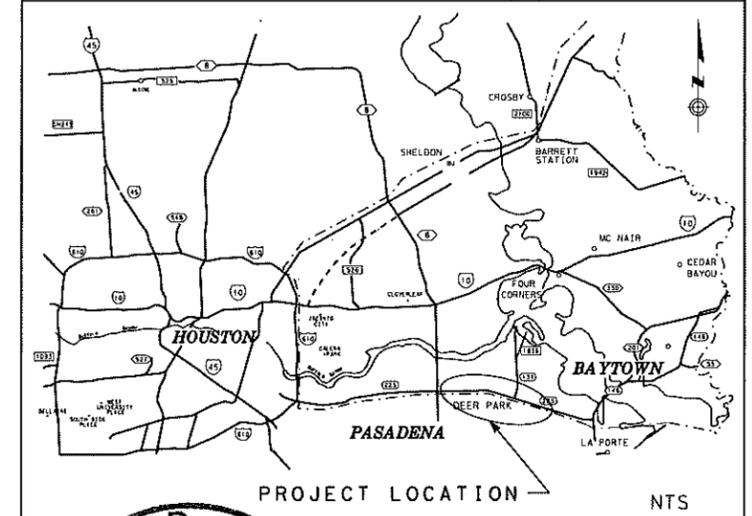
SCALE : N. T. S.

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| | | | |
|--------------------|--------|-------------------|-------------|
| FED. RD. DIST. NO. | STATE | STATE PROJECT NO. | HIGHWAY NO. |
| 6 | TEXAS | NH () | SH 225 |
| STATE DISTRICT | COUNTY | CONTROL NO. | SECTION NO. |
| HOU | HARRIS | 0502 | 01 |
| | | JOB NO. | SHEET NO. |
| | | 214 | 1 |

DESIGN SPEED: 50 MPH
ADT (2017): = 91,100
ADT (2027): = 128,800
ADT (2037): = 176,800

VICINITY MAP



CITY OF DEER PARK

CONCURRENCE

DIRECTOR OF PUBLIC WORKS AND ENGINEERING



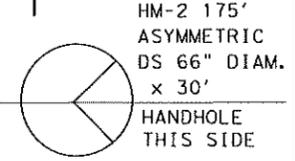
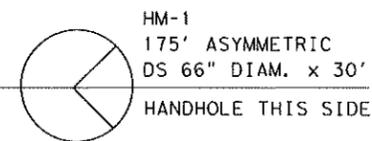
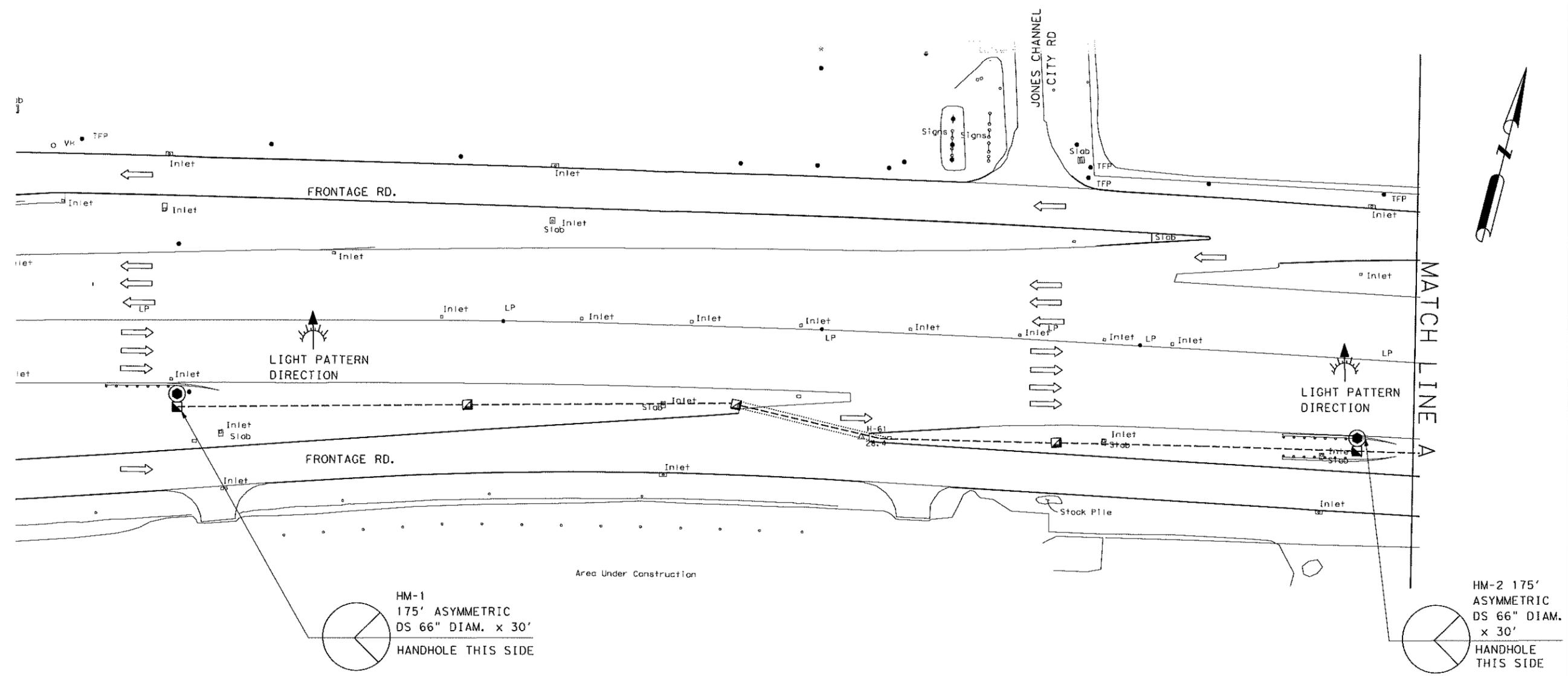
SUBMITTED FOR LETTING

DISTRICT TRAFFIC ENGINEER

APPROVED FOR LETTING

FOR DISTRICT ENGINEER

COUNTY HARRIS PROJ. NO. NH ()
HWY. NO. SH 225 LETTING DATE MARCH, 2018
DATE ACCEPTED



LEGEND

- NEW HIGH MAST (100 MPH) POLE AND ASSEMBLY
- EXISTING HIGH MAST POLE TO REMAIN
- NEW SERVICE
- EXISTING SERVICE TO BE REMOVED OR AS NOTED
- BORING HOLE
- NEW GROUND BOX
- NEW JUNCTION BOX
- NEW 30A HEAVY DUTY FUSED DISCONNECT SWITCH WITH NEMA 3R ENCLOSURE
- NEW UNDERGROUND PVC AND CONDUCTORS
- NEW BORED CONDUIT AND CONDUCTORS
- NEW EXPOSED RMC AND CONDUCTORS
- EXISTING OVERHEAD TRANSMISSION LINE
- NEW MBG, SGT AND DAT (SEE NOTE NO. 17)
- NEW UNDERPASS LIGHTS
- EXISTING UNDERPASS LIGHTS TO BE REMOVED
- EXISTING RDWY ILL TO BE REMOVED

| ASSEMBLY | COORDINATE | | WATT | DESCRIPTION | HEIGHT (FT) |
|----------|--------------|---------------|------|---|-------------|
| | X | Y | | | |
| HM 1 | 3190414.2483 | 13828234.0752 | 4800 | HI MST ILL ASM (12-400WATT) (ASYM) (TY A) | 175' |
| HM 2 | 3191483.9598 | 13828198.5558 | 4800 | HI MST ILL ASM (12-400WATT) (ASYM) (TY A) | 175' |

NOTES:

1. COORDINATES SHOWN ARE SURFACE AND MAY BE CONVERTED TO GRID BY DIVIDING BY A COMBINED SCALE FACTOR OF 1.00013.
2. THE CONTRACTOR WILL NOT BE PERMITTED TO USE ANY EQUIPMENT THAT CAN SWING OR BOOM INTO THE RAILROAD RIGHT OF WAY. EQUIPMENT THAT HAS A LENGTH OR HEIGHT SUFFICIENT TO REACH THE TRACK SHOULD IT TIP OVER, WILL REQUIRE A RAILROAD FLAG MAN REGARDLESS OF THE DISTANCE FROM THE TRACK.



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TEXAS DEPARTMENT OF TRANSPORTATION

LIGHTING LAYOUT
SH 225

SCALE: 1" : 100' SHEET 1 OF 17

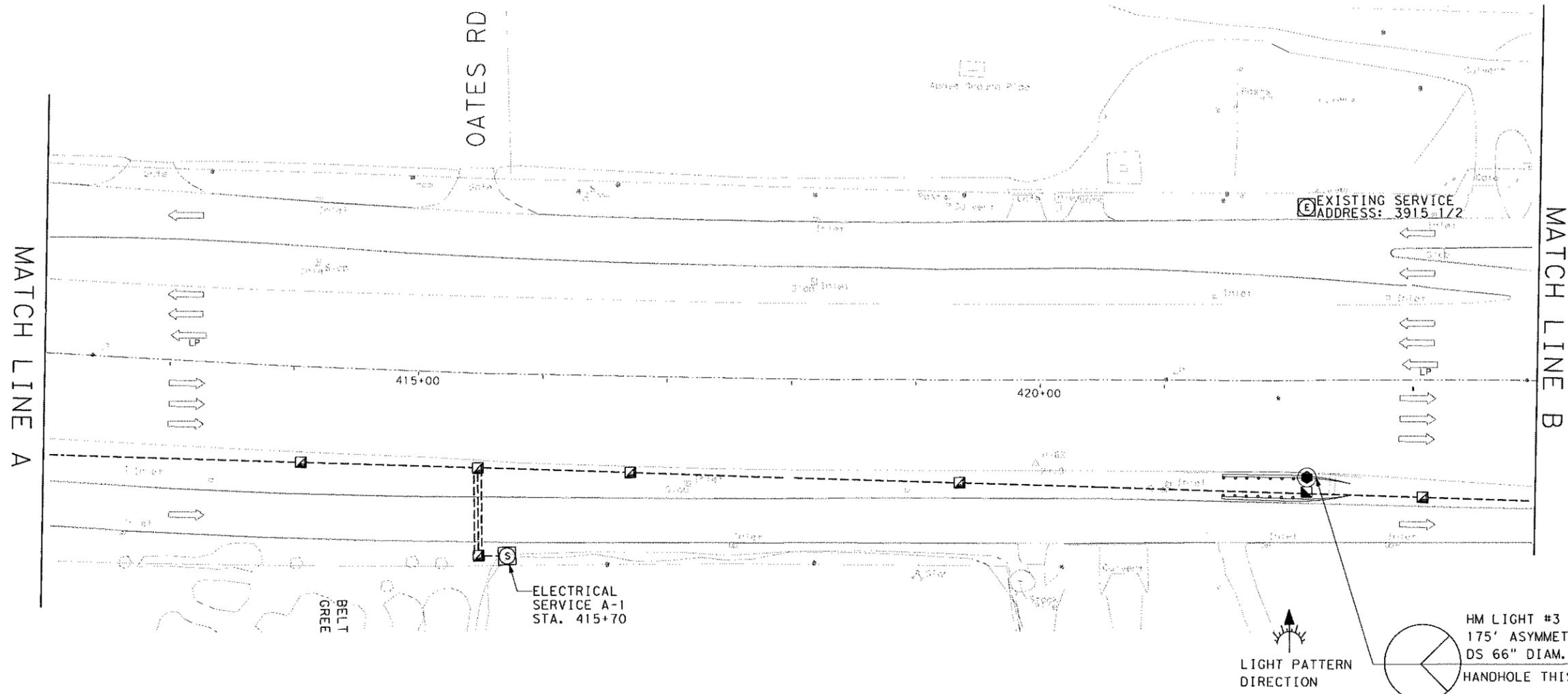
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|------------------------|-----------------------|---------------------|---------|
| ORIGINAL DRAWING DATE: | STATE DISTRICT REGION | FEDERAL AID PROJECT | SHEET |
| | 12 6 | | 22 |
| REVISIONS | COUNTY | CONTROL SECTION JOB | HIGHWAY |
| | HARRIS | 0502 01 214 | SH225 |

STIMES
SDATES
SFLELES

SPFILEL8

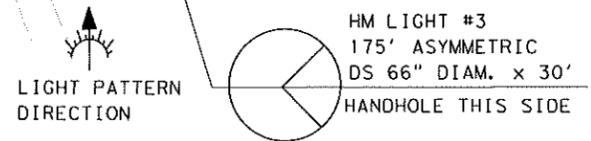
STIMES

SDATES



EXISTING SERVICE
ADDRESS: 3915-172

ELECTRICAL SERVICE A-1
STA. 415+70



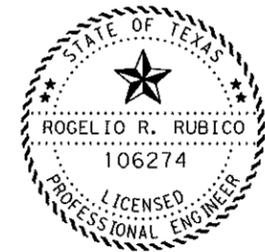
LEGEND

- NEW HIGH MAST (100 MPH) POLE AND ASSEMBLY
- EXISTING HIGH MAST POLE TO REMAIN
- NEW SERVICE
- EXISTING SERVICE TO BE REMOVED OR AS NOTED
- BORING HOLE
- NEW GROUND BOX
- NEW JUNCTION BOX
- NEW 30A HEAVY DUTY FUSED DISCONNECT SWITCH WITH NEMA 3R ENCLOSURE
- NEW UNDERGROUND PVC AND CONDUCTORS
- NEW BORED CONDUIT AND CONDUCTORS
- NEW EXPOSED RMC AND CONDUCTORS
- EXISTING OVERHEAD TRANSMISSION LINE
- NEW MBG, SGT AND DAT (SEE NOTE NO. 17)
- NEW UNDERPASS LIGHTS
- EXISTING UNDERPASS LIGHTS TO BE REMOVED
- EXISTING RDWY ILL TO BE REMOVED

| ASSEMBLY | COORDINATE | | WATT | DESCRIPTION | HEIGHT (FT) |
|----------|--------------|---------------|------|---|-------------|
| | X | Y | | | |
| HM 3 | 3192550.9249 | 13828170.8166 | 4800 | HI MST ILL ASM (12-400WATT) (ASYM) (TY A) | 175' |

NOTES:

1. COORDINATES SHOWN ARE SURFACE AND MAY BE CONVERTED TO GRID BY DIVIDING BY A COMBINED SCALE FACTOR OF 1.00013.
2. THE CONTRACTOR WILL NOT BE PERMITTED TO USE ANY EQUIPMENT THAT CAN SWING OR BOOM INTO THE RAILROAD RIGHT OF WAY. EQUIPMENT THAT HAS A LENGTH OR HEIGHT SUFFICIENT TO REACH THE TRACK SHOULD IT TIP OVER, WILL REQUIRE A RAILROAD FLAG MAN REGARDLESS OF THE DISTANCE FROM THE TRACK.



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TEXAS DEPARTMENT OF TRANSPORTATION

LIGHTING LAYOUT
SH 225

SCALE: 1" : 100' SHEET 2 OF 17

| | | | |
|------------------------|-----------------------|---------------------|---------|
| ORIGINAL DRAWING DATE: | STATE DISTRICT REGION | FEDERAL AID PROJECT | SHEET |
| REVISED | 12 6 | | 23 |
| CL-1 - RDR | COUNTY | CONTROL SECTION JOB | HIGHWAY |
| CL-1 - RTCL | HARRIS | 0502 01 214 | SH225 |

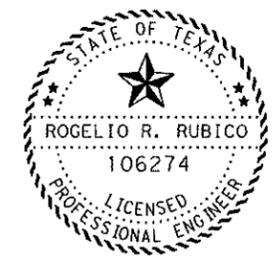
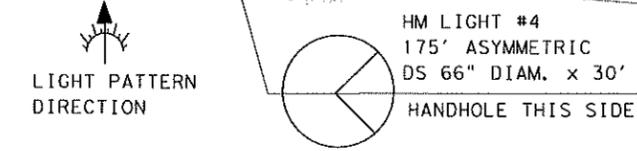
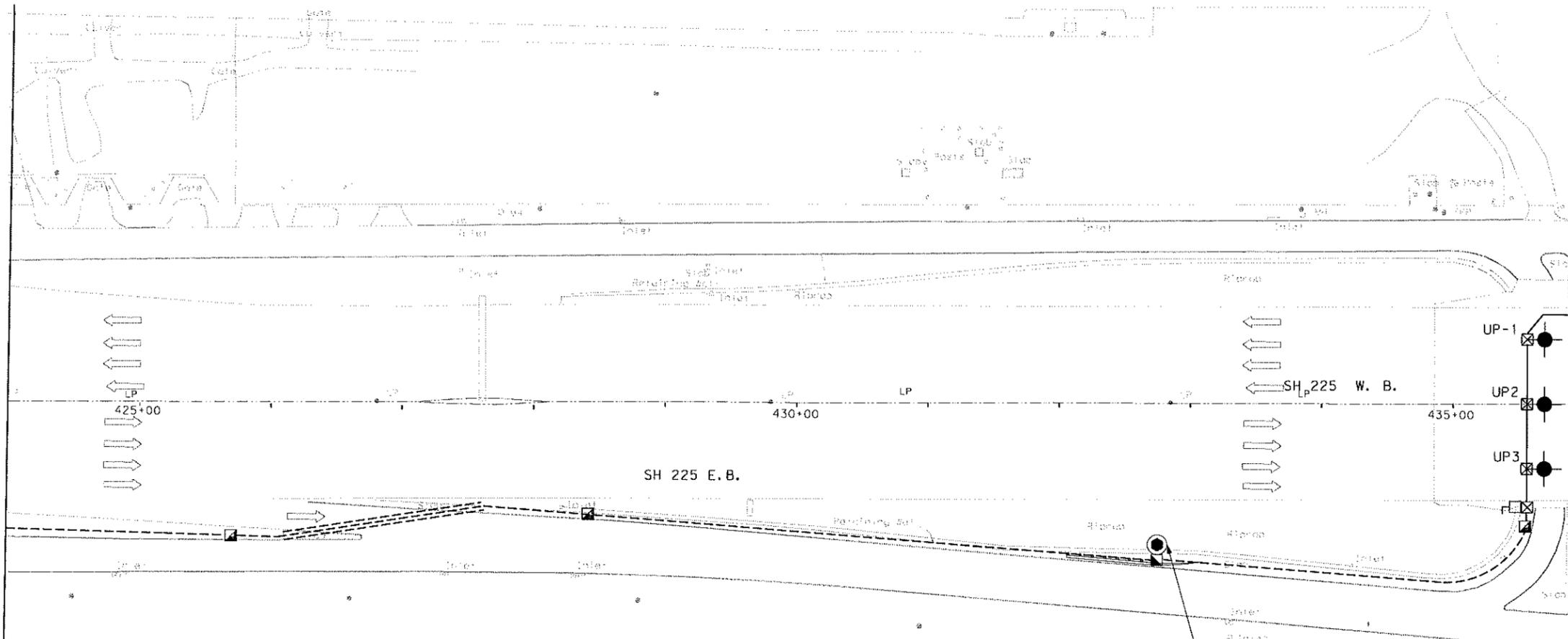
STIMES
SDATES
SFILLEL6

SFILLEL6

STIMES SDATES

MATCH LINE B

MATCH LINE C



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LEGEND

- NEW HIGH MAST (100 MPH) POLE AND ASSEMBLY
- EXISTING HIGH MAST POLE TO REMAIN
- NEW SERVICE
- EXISTING SERVICE TO BE REMOVED OR AS NOTED
- BORING HOLE
- NEW GROUND BOX
- NEW JUNCTION BOX
- NEW 30A HEAVY DUTY FUSED DISCONNECT SWITCH WITH NEMA 3R ENCLOSURE
- NEW UNDERGROUND PVC AND CONDUCTORS
- NEW BORED CONDUIT AND CONDUCTORS
- NEW EXPOSED RMC AND CONDUCTORS
- EXISTING OVERHEAD TRANSMISSION LINE
- NEW MBG, SGT AND DAT (SEE NOTE NO. 17)
- NEW UNDERPASS LIGHTS
- EXISTING UNDERPASS LIGHTS TO BE REMOVED
- EXISTING RDWY ILL TO BE REMOVED

| ASSEMBLY | COORDINATE | | WATT | DESCRIPTION | HEIGHT (FT) |
|----------|--------------|---------------|------|---|-------------|
| | X | Y | | | |
| HM 4 | 3193606.4784 | 13828146.9347 | 4800 | HI MST ILL ASM (12-400WATT) (ASYM) (TY A) | 175' |

NOTES:

1. COORDINATES SHOWN ARE SURFACE AND MAY BE CONVERTED TO GRID BY DIVIDING BY A COMBINED SCALE FACTOR OF 1.00013.
2. THE CONTRACTOR WILL NOT BE PERMITTED TO USE ANY EQUIPMENT THAT CAN SWING OR BOOM INTO THE RAILROAD RIGHT OF WAY. EQUIPMENT THAT HAS A LENGTH OR HEIGHT SUFFICIENT TO REACH THE TRACK SHOULD IT TIP OVER, WILL REQUIRE A RAILROAD FLAG MAN REGARDLESS OF THE DISTANCE FROM THE TRACK.

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LIGHTING LAYOUT
SH 225

SCALE: 1" : 100' SHEET 3 OF 17

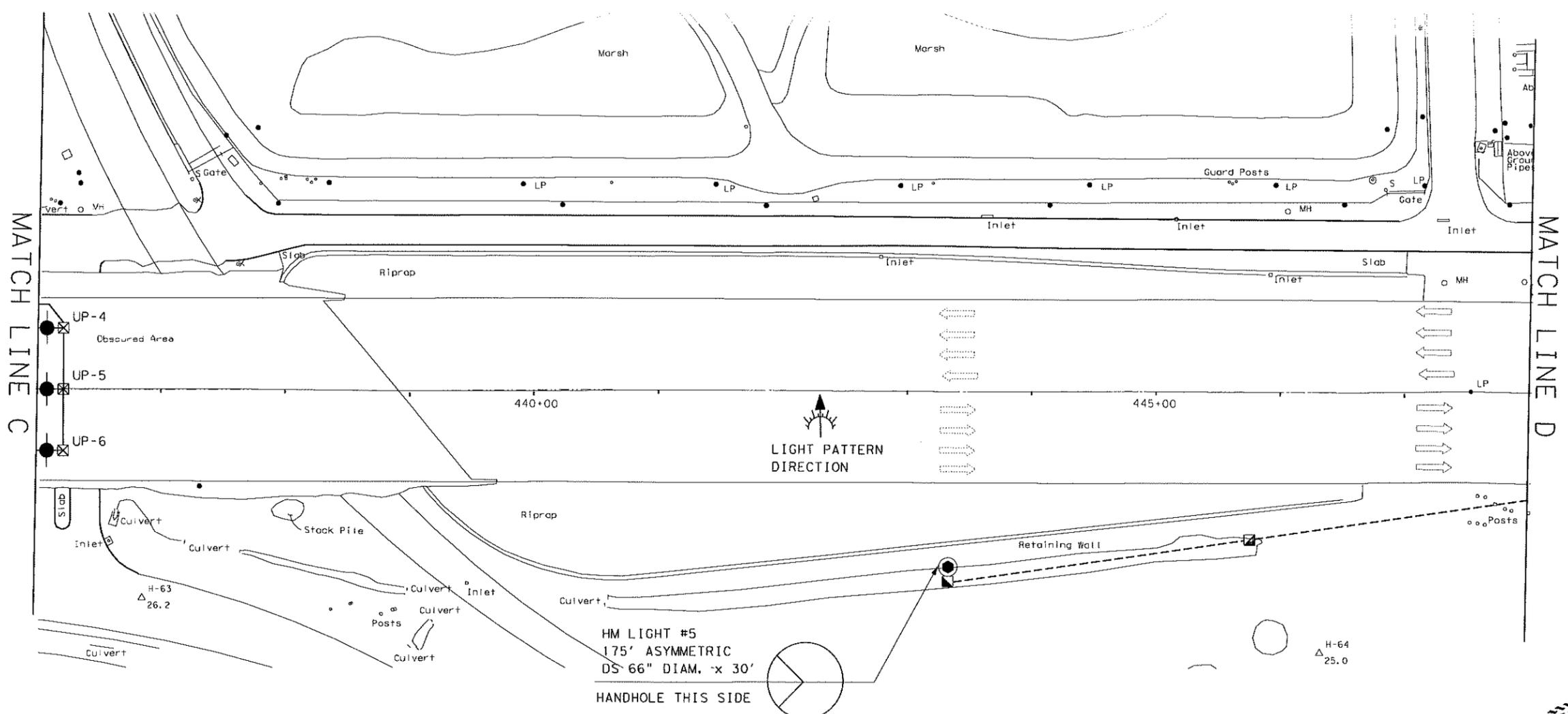
| | | | | |
|------------------------|-----------|-----------------------|---------------------|---------|
| ORIGINAL DRAWING DATE: | REVISIONS | STATE DISTRICT REGION | FEDERAL AID PROJECT | SHEET |
| 04.1-RT11E | | 12 6 | | 24 |
| 04.1-R08 | | COUNTY | CONTROL SECTION JOB | HIGHWAY |
| 04.1-RT11E | | HARRIS | 0502 01 214 | SH225 |
| 04.1-R08 | | | | |

\$TIME\$
 \$DATE\$
 \$FILEL\$

\$FILEL\$

\$TIME\$

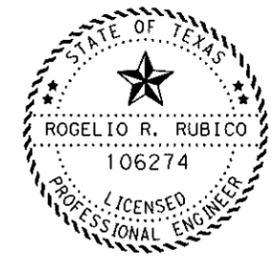
\$DATE\$



LEGEND

- NEW HIGH MAST (100 MPH) POLE AND ASSEMBLY
- EXISTING HIGH MAST POLE TO REMAIN
- NEW SERVICE
- EXISTING SERVICE TO BE REMOVED OR AS NOTED
- BORING HOLE
- NEW GROUND BOX
- NEW JUNCTION BOX
- NEW 30A HEAVY DUTY FUSED DISCONNECT SWITCH WITH NEMA 3R ENCLOSURE
- NEW UNDERGROUND PVC AND CONDUCTORS
- NEW BORED CONDUIT AND CONDUCTORS
- NEW EXPOSED RMC AND CONDUCTORS
- EXISTING OVERHEAD TRANSMISSION LINE
- NEW MGB, SGT AND DAT (SEE NOTE NO. 17)
- NEW UNDERPASS LIGHTS
- EXISTING UNDERPASS LIGHTS TO BE REMOVED
- EXISTING RDWY ILL TO BE REMOVED

HM LIGHT #5
 175' ASYMMETRIC
 DS 66" DIAM. x 30'
 HANDHOLE THIS SIDE



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| ASSEMBLY | COORDINATE | | WATT | DESCRIPTION | HEIGHT (FT) |
|----------|--------------|---------------|------|---|-------------|
| | X | Y | | | |
| HM 5 | 3193606.4784 | 13828146.9347 | 4800 | HI MST ILL ASM (12-400WATT) (ASYM) (TY A) | 175' |

NOTES:

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LIGHTING LAYOUT
SH 225

SCALE: 1" : 100' SHEET 4 OF 15

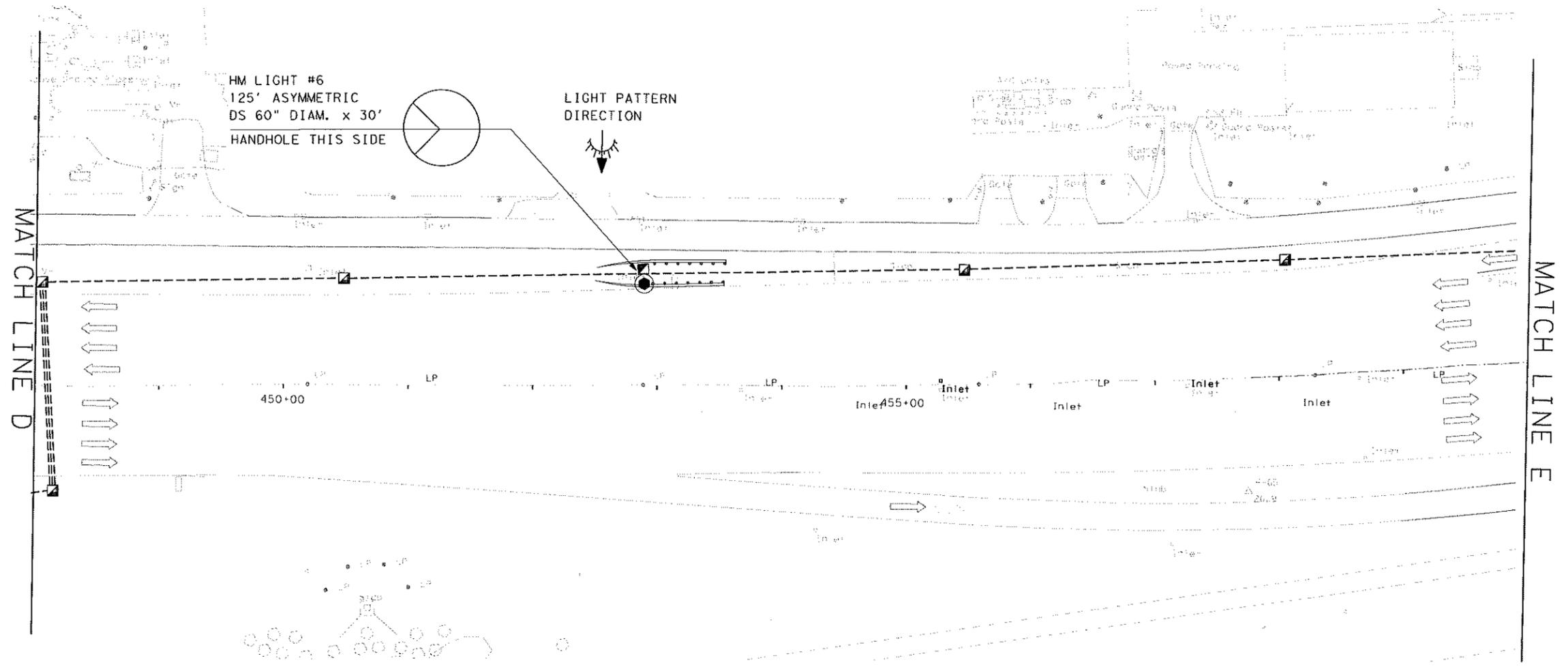
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|------------------------|---------|-----------------|----------------------|-----------|
| ORIGINAL DRAWING DATE: | STATE: | FEDERAL REGION: | FEDERAL AID PROJECT: | SHEET: |
| REVISIONS: | 12 | 6 | | 25 |
| CL. - RTEE | COUNTY: | CONTROL: | SECTION: | JOB: |
| CL. - RMR | HARRIS | 0502 | 01 | 214 SH225 |

\$TIMES
 \$DATES
 \$FILES

\$FILES

\$TIMES

\$DATES



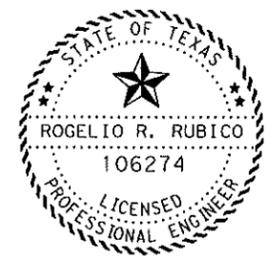
LEGEND

- NEW HIGH MAST (100 MPH) POLE AND ASSEMBLY
- EXISTING HIGH MAST POLE TO REMAIN
- NEW SERVICE
- EXISTING SERVICE TO BE REMOVED OR AS NOTED
- BORING HOLE
- NEW GROUND BOX
- NEW JUNCTION BOX
- NEW 30A HEAVY DUTY FUSED DISCONNECT SWITCH WITH NEMA 3R ENCLOSURE
- NEW UNDERGROUND PVC AND CONDUCTORS
- NEW BORED CONDUIT AND CONDUCTORS
- NEW EXPOSED RMC AND CONDUCTORS
- EXISTING OVERHEAD TRANSMISSION LINE
- NEW MBG, SGT AND DAT (SEE NOTE NO. 17)
- NEW UNDERPASS LIGHTS
- EXISTING UNDERPASS LIGHTS TO BE REMOVED
- EXISTING RDWY ILL TO BE REMOVED

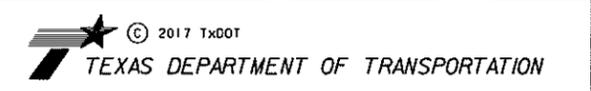
| ASSEMBLY | COORDINATE | | WATT | DESCRIPTION | HEIGHT (FT) |
|----------|--------------|---------------|------|---|-------------|
| | X | Y | | | |
| HM 6 | 3192550.9249 | 13828170.8166 | 4800 | HI MST ILL ASM (12-400WATT) (ASYM) (TY A) | 125' |

NOTES:

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LIGHTING LAYOUT
SH 225

SCALE: 1" = 100' SHEET 5 OF 17

| | | | |
|------------------------|-----------------------|---------------------|---------|
| ORIGINAL DRAWING DATE: | STATE DISTRICT REGION | FEDERAL AID PROJECT | SHEET |
| REVISIONS | 12 6 | | 26 |
| DATE: 01/11/17 | COUNTY | CONTROL SECTION JOB | HIGHWAY |
| | HARRIS | 0502 01 214 | SH225 |

STIMES
SDATES
SFLELES

SFILEL6

STIMES
SDATES

HM LIGHT #7
125' ASYM
DS 60" DIAM. x 30'
HANDHOLE THIS SIDE

LIGHT PATTERN
DIRECTION

HM LIGHT #8
125' ASYMMETRIC
DS 60" DIAM. x 30'
HANDHOLE THIS SIDE

LIGHT PATTERN
DIRECTION

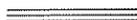
ELECTRICAL
SERVICE A-2
STA. 463+10

MATCH LINE E

MATCH LINE F



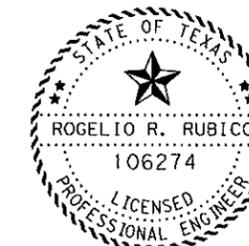
LEGEND

-  NEW HIGH MAST (100 MPH) POLE AND ASSEMBLY
-  EXISTING HIGH MAST POLE TO REMAIN
-  NEW SERVICE
-  EXISTING SERVICE TO BE REMOVED OR AS NOTED
-  BORING HOLE
-  NEW GROUND BOX
-  NEW JUNCTION BOX
-  NEW 30A HEAVY DUTY FUSED DISCONNECT SWITCH WITH NEMA 3R ENCLOSURE
-  NEW UNDERGROUND PVC AND CONDUCTORS
-  NEW BORED CONDUIT AND CONDUCTORS
-  NEW EXPOSED RMC AND CONDUCTORS
-  EXISTING OVERHEAD TRANSMISSION LINE
-  NEW MBG, SGT AND DAT (SEE NOTE NO. 17)
-  NEW UNDERPASS LIGHTS
-  EXISTING UNDERPASS LIGHTS TO BE REMOVED
-  EXISTING RDWY ILL TO BE REMOVED

| ASSEMBLY | COORDINATE | | WATT | DESCRIPTION | HEIGHT (FT) |
|----------|--------------|---------------|------|---|----------------|
| | X | Y | | | |
| HM 7 | 3196399.3182 | 13828380.9467 | 4800 | HI MST ILL ASM (12-400WATT) (ASYM) (TY A) | 125' |
| HM 8 | 3197115.2897 | 13828455.5591 | 4800 | HI MST ILL ASM (12-400WATT) (ASYM) (TY A) | 125' |

NOTES:

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LIGHTING LAYOUT
SH 225

SCALE: 1" = 100' SHEET 6 OF 17

| | | | |
|-----------------------------|-----------------------|---------------------|-------|
| ORIGINAL DRAWING DATE: | STATE DISTRICT REGION | FEDERAL AID PROJECT | SHEET |
| REVISED | 12 6 | | 27 |
| CONTROL SECTION JOB HIGHWAY | HARRIS | 0502 01 214 | SH225 |

HM LIGHT #9
125' ASYMMETRIC
DS 60" DIAM. x 30'
HANDHOLE THIS SIDE

LIGHT PATTERN
DIRECTION

HM LIGHT #10
125' ASYMMETRIC
DS 60" DIAM. x 30'
HANDHOLE THIS SIDE

LIGHT PATTERN
DIRECTION

MATCH LINE F

MATCH LINE G

SHELL ROAD

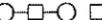
EXISTING SERVICE
ADDRESS: 5529 1/2

UP-8
UP-9
UP-10
UP-11
UP-12
UP-13
UP-14
UP-15
UP-16
UP-17
UP-18

475+00

480+00

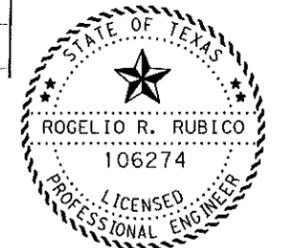
LEGEND

-  NEW HIGH MAST (100 MPH) POLE AND ASSEMBLY
-  EXISTING HIGH MAST POLE TO REMAIN
-  NEW SERVICE
-  EXISTING SERVICE TO BE REMOVED OR AS NOTED
-  BORING HOLE
-  NEW GROUND BOX
-  NEW JUNCTION BOX
-  NEW 30A HEAVY DUTY FUSED DISCONNECT SWITCH WITH NEMA 3R ENCLOSURE
-  NEW UNDERGROUND PVC AND CONDUCTORS
-  NEW BORED CONDUIT AND CONDUCTORS
-  NEW EXPOSED RMC AND CONDUCTORS
-  EXISTING OVERHEAD TRANSMISSION LINE
-  NEW MBG, SGT AND DAT (SEE NOTE NO. 17)
-  NEW UNDERPASS LIGHTS
-  EXISTING UNDERPASS LIGHTS TO BE REMOVED
-  EXISTING RDWY ILL TO BE REMOVED

| ASSEMBLY | COORDINATE | | WATT | DESCRIPTION | HEIGHT (FT) |
|----------|--------------|---------------|------|---|----------------|
| | X | Y | | | |
| HM 9 | 3197901.0142 | 13828482.0501 | 4800 | HI MST ILL ASM (12-400WATT) (ASYM) (TY A) | 125' |
| HM 10 | 3198680.2089 | 13828477.1966 | 4800 | HI MST ILL ASM (12-400WATT) (ASYM) (TY A) | 125' |

NOTES:

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LIGHTING LAYOUT

SH 225

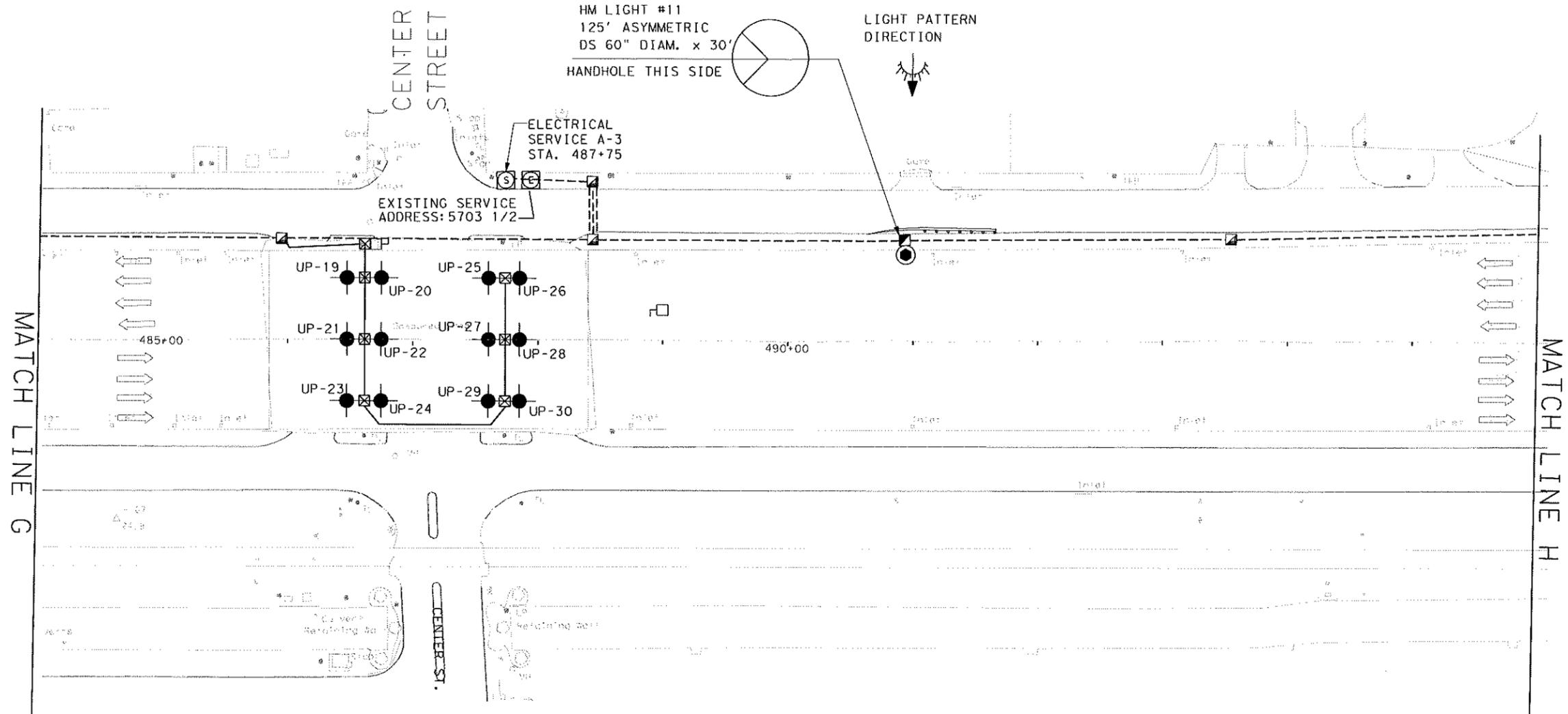
SCALE: 1" = 100' SHEET 7 OF 17

| | | | |
|------------------------|------------------------------------|----------------------|--------|
| ORIGINAL DRAWING DATE: | STATE / FEDERAL DISTRICT / REGION: | FEDERAL AID PROJECT: | SHEET: |
| REVISED: | 12 / 6 | | 28 |
| COUNTY: | CONTROL SECTION JOB: | HIGHWAY: | |
| HARRIS | 0502 01 214 | SH225 | |

STIMES
SDATES
SFILLEB

SFILLEB

STIMES SDATES



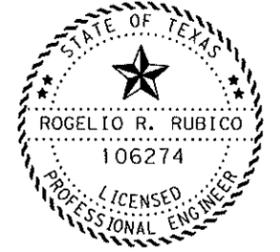
LEGEND

- NEW HIGH MAST (100 MPH) POLE AND ASSEMBLY
- EXISTING HIGH MAST POLE TO REMAIN
- NEW SERVICE
- EXISTING SERVICE TO BE REMOVED OR AS NOTED
- BORING HOLE
- NEW GROUND BOX
- NEW JUNCTION BOX
- NEW 30A HEAVY DUTY FUSED DISCONNECT SWITCH WITH NEMA 3R ENCLOSURE
- NEW UNDERGROUND PVC AND CONDUCTORS
- NEW BORED CONDUIT AND CONDUCTORS
- NEW EXPOSED RMC AND CONDUCTORS
- EXISTING OVERHEAD TRANSMISSION LINE
- NEW MBG, SGT AND DAT (SEE NOTE NO. 17)
- NEW UNDERPASS LIGHTS
- EXISTING UNDERPASS LIGHTS TO BE REMOVED
- EXISTING RDWY ILL TO BE REMOVED

| ASSEMBLY | COORDINATE | | WATT | DESCRIPTION | HEIGHT (FT) |
|----------|--------------|---------------|------|---|-------------|
| | X | Y | | | |
| HM 11 | 3199425.6029 | 13828476.8032 | 4800 | HI MST ILL ASM (12-400WATT) (ASYM) (TY A) | 125' |

NOTES:

1. COORDINATES SHOWN ARE SURFACE AND MAY BE CONVERTED TO GRID BY DIVIDING BY A COMBINED SCALE FACTOR OF 1.00013.
2. THE CONTRACTOR WILL NOT BE PERMITTED TO USE ANY EQUIPMENT THAT CAN SWING OR BOOM INTO THE RAILROAD RIGHT OF WAY. EQUIPMENT THAT HAS A LENGTH OR HEIGHT SUFFICIENT TO REACH THE TRACK SHOULD IT TIP OVER, WILL REQUIRE A RAILROAD FLAG MAN REGARDLESS OF THE DISTANCE FROM THE TRACK.



The seal appearing on this document was authorized by Rogelio R. Rubico, P.E. 106274, on



LIGHTING LAYOUT
SH 225

SCALE: 1" = 100' SHEET 8 OF 17

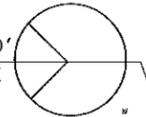
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|------------------------|------------|------------------------|----------------------|----------|
| ORIGINAL DRAWING DATE: | REVISIONS: | STATE DISTRICT REGION: | FEDERAL AID PROJECT: | SHEET: |
| DL-1-R1111 | | 12 6 | | 29 |
| DL-1-P00 | | COUNTY: | CONTROL SECTION JOB: | HIGHWAY: |
| DL-1-R1111 | | HARRIS | 0502 01 214 | SH225 |
| DL-1-P00 | | | | |

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@DATE\$
@FILEL\$

STIME\$ @DATE\$

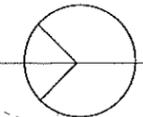
HM LIGHT #12
125' ASYMMETRIC
DS 60" DIAM. x 30'
HANDHOLE THIS SIDE

LIGHT PATTERN
DIRECTION

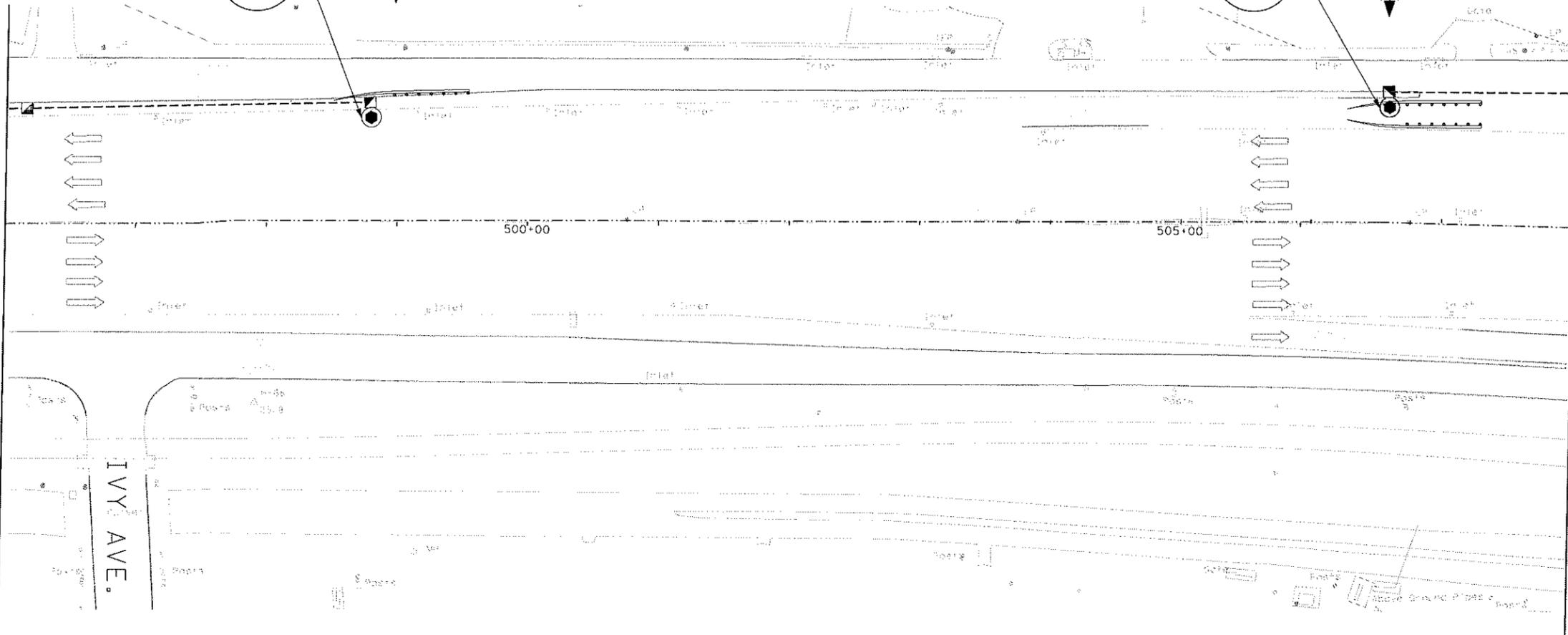


HM LIGHT #13
125' ASYMMETRIC
DS 60" DIAM. x 30'
HANDHOLE THIS SIDE

LIGHT PATTERN
DIRECTION



MATCH LINE H

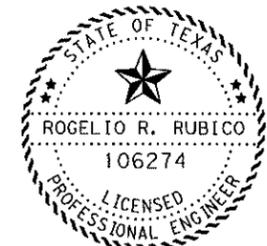


MATCH LINE I



LEGEND

- NEW HIGH MAST (100 MPH) POLE AND ASSEMBLY
- EXISTING HIGH MAST POLE TO REMAIN
- NEW SERVICE
- EXISTING SERVICE TO BE REMOVED OR AS NOTED
- BORING HOLE
- NEW GROUND BOX
- NEW JUNCTION BOX
- NEW 30A HEAVY DUTY FUSED DISCONNECT SWITCH WITH NEMA 3R ENCLOSURE
- NEW UNDERGROUND PVC AND CONDUCTORS
- NEW BORED CONDUIT AND CONDUCTORS
- NEW EXPOSED RMC AND CONDUCTORS
- EXISTING OVERHEAD TRANSMISSION LINE
- NEW MBS, SGT AND DAT (SEE NOTE NO. 17)
- NEW UNDERPASS LIGHTS
- EXISTING UNDERPASS LIGHTS TO BE REMOVED
- EXISTING RDWY ILL TO BE REMOVED



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| ASSEMBLY | COORDINATE | | WATT | DESCRIPTION | HEIGHT (FT) |
|----------|--------------|---------------|------|---|-------------|
| | X | Y | | | |
| HM 12 | 3200212.1016 | 13828489.7731 | 4800 | HI MST ILL ASM (12-400WATT) (ASYM) (TY A) | 125' |
| HM 13 | 3200992.2870 | 13828501.4206 | 4800 | HI MST ILL ASM (12-400WATT) (ASYM) (TY A) | 125' |

NOTES:

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2. THE CONTRACTOR WILL NOT BE PERMITTED TO USE ANY EQUIPMENT THAT CAN SWING OR BOOM INTO THE RAILROAD RIGHT OF WAY. EQUIPMENT THAT HAS A LENGTH OR HEIGHT SUFFICIENT TO REACH THE TRACK SHOULD IT TIP OVER, WILL REQUIRE A RAILROAD FLAG MAN REGARDLESS OF THE DISTANCE FROM THE TRACK.

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LIGHTING LAYOUT
SH 225

SCALE: 1" = 100' SHEET 9 OF 17

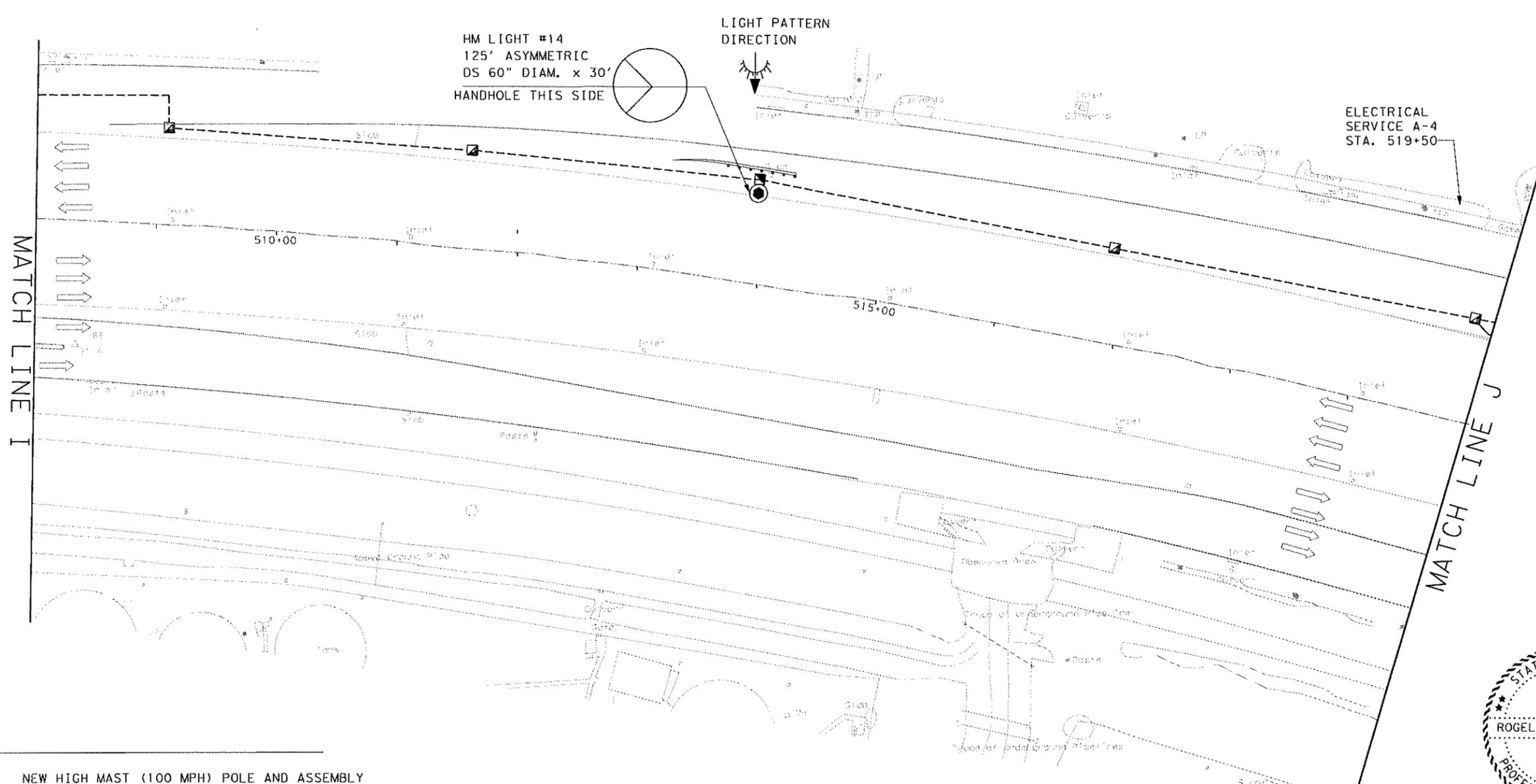
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|------------------------|------------|------------------------|----------------------|----------|
| ORIGINAL DRAWING DATE: | REVISIONS: | STATE DISTRICT REGION: | FEDERAL AID PROJECT: | SHEET: |
| | | 12 6 | | 30 |
| DATE: | DATE: | COUNTY: | CONTROL SECTION JOB: | HIGHWAY: |
| | | HARRIS | 0502 01 214 | SH225 |

\$TIME\$
\$DATE\$
\$FILEL\$

\$FILEL\$

\$TIME\$

\$DATE\$



HM LIGHT #14
 125' ASYMMETRIC
 DS 60" DIAM. x 30"
 HANDHOLE THIS SIDE

LIGHT PATTERN
 DIRECTION

ELECTRICAL
 SERVICE A-4
 STA. 519+50

MATCH LINE I

MATCH LINE J

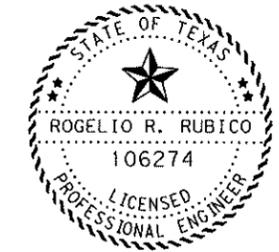
LEGEND

- NEW HIGH MAST (100 MPH) POLE AND ASSEMBLY
- EXISTING HIGH MAST POLE TO REMAIN
- NEW SERVICE
- EXISTING SERVICE TO BE REMOVED OR AS NOTED
- BORING HOLE
- NEW GROUND BOX
- NEW JUNCTION BOX
- NEW 30A HEAVY DUTY FUSED DISCONNECT SWITCH WITH NEMA 3R ENCLOSURE
- NEW UNDERGROUND PVC AND CONDUCTORS
- NEW BORED CONDUIT AND CONDUCTORS
- NEW EXPOSED RMC AND CONDUCTORS
- EXISTING OVERHEAD TRANSMISSION LINE
- NEW MBG, SGT AND DAT (SEE NOTE NO. 17)
- NEW UNDERPASS LIGHTS
- EXISTING UNDERPASS LIGHTS TO BE REMOVED
- EXISTING RDWY ILL TO BE REMOVED

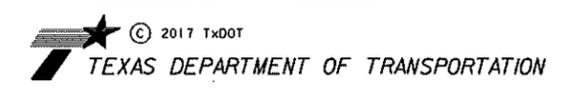
| ASSEMBLY | COORDINATE | | WATT | DESCRIPTION | HEIGHT (FT) |
|----------|--------------|---------------|------|---|----------------|
| | X | Y | | | |
| HM 14 | 3201734.3966 | 13828432.8712 | 4800 | HI MST ILL ASM (12-400WATT) (ASYM) (TY A) | 125' |

NOTES:

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2. THE CONTRACTOR WILL NOT BE PERMITTED TO USE ANY EQUIPMENT THAT CAN SWING OR BOOM INTO THE RAILROAD RIGHT OF WAY. EQUIPMENT THAT HAS A LENGTH OR HEIGHT SUFFICIENT TO REACH THE TRACK SHOULD IT TIP OVER, WILL REQUIRE A RAILROAD FLAG MAN REGARDLESS OF THE DISTANCE FROM THE TRACK.



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LIGHTING LAYOUT
 SH 225

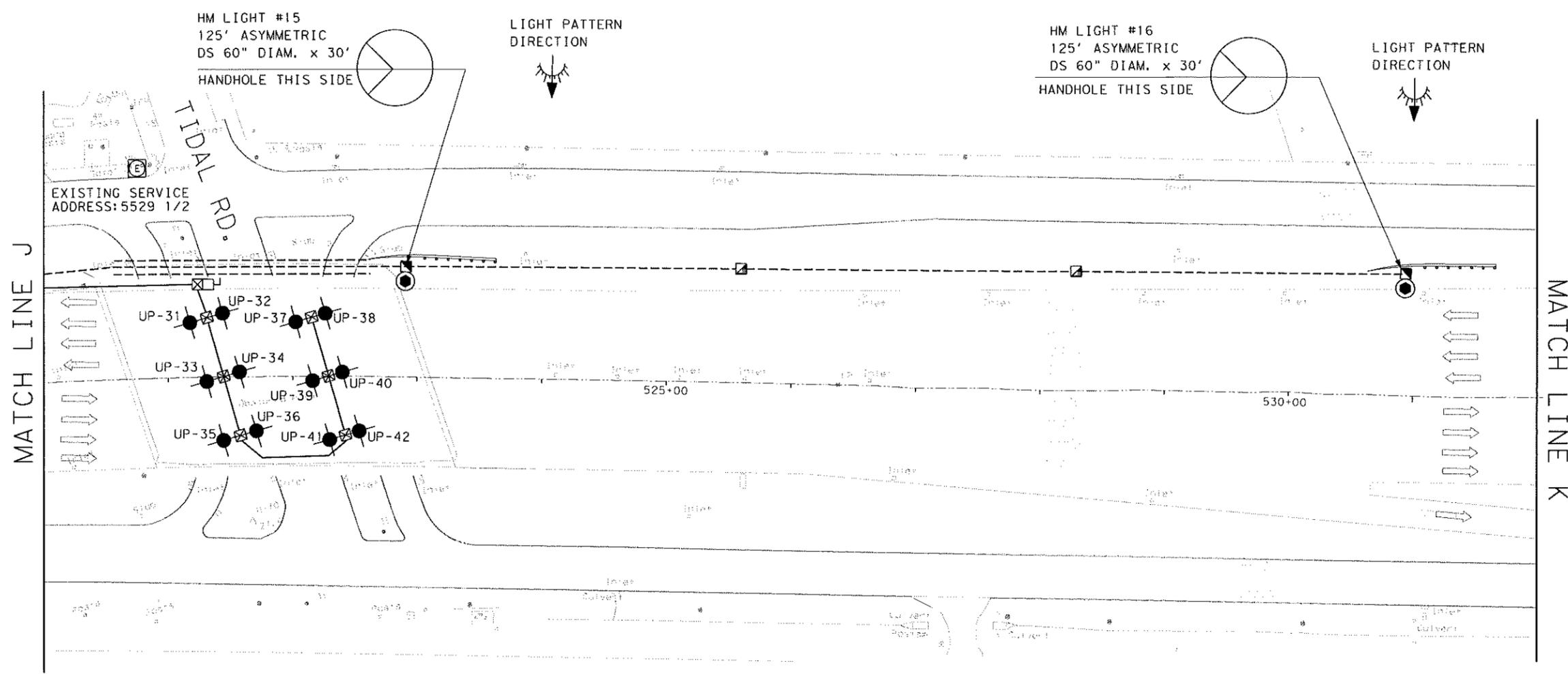
SCALE: 1" = 100' SHEET 10 OF 17

| | | | |
|------------------------|-----------------------|---------------------|---------|
| ORIGINAL DRAWING DATE: | STATE DISTRICT REGION | FEDERAL AID PROJECT | SHEET |
| REVISIONS | 12 6 | | 31 |
| COUNTY | HARRIS | CONTROL SECTION JOB | HIGHWAY |
| | | 0502 01 214 | SH225 |

STIMES
 SDATES
 SFILLES

SFILEL6

STIMES
 SDATES



LEGEND

- NEW HIGH MAST (100 MPH) POLE AND ASSEMBLY
- EXISTING HIGH MAST POLE TO REMAIN
- NEW SERVICE
- EXISTING SERVICE TO BE REMOVED OR AS NOTED
- BORING HOLE
- NEW GROUND BOX
- NEW JUNCTION BOX
- NEW 30A HEAVY DUTY FUSED DISCONNECT SWITCH WITH NEMA 3R ENCLOSURE
- NEW UNDERGROUND PVC AND CONDUCTORS
- NEW BORED CONDUIT AND CONDUCTORS
- NEW EXPOSED RMC AND CONDUCTORS
- EXISTING OVERHEAD TRANSMISSION LINE
- NEW MBG, SGT AND DAT (SEE NOTE NO. 17)
- NEW UNDERPASS LIGHTS
- EXISTING UNDERPASS LIGHTS TO BE REMOVED
- EXISTING RDWY ILL TO BE REMOVED

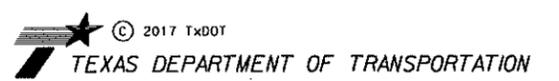


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| ASSEMBLY | COORDINATE | | WATT | DESCRIPTION | HEIGHT (FT) |
|----------|--------------|---------------|------|---|-------------|
| | X | Y | | | |
| HM 15 | 3202627.1874 | 13828242.4269 | 4800 | HI MST ILL ASM (12-400WATT) (ASYM) (TY A) | 125' |
| HM 16 | 3203397.8253 | 13828013.0947 | 4800 | HI MST ILL ASM (12-400WATT) (ASYM) (TY A) | 125' |

NOTES:

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**LIGHTING LAYOUT
SH 225**

SCALE: 1" = 100' SHEET 11 OF 17

| | | | | |
|------------------------|-----------------|----------------------|----------------------|--------|
| ORIGINAL DRAWING DATE: | STATE DISTRICT: | FEDERAL REGION: | FEDERAL AID PROJECT: | SHEET: |
| | 12 | 6 | | 32 |
| REVISIONS: | COUNTY: | CONTROL SECTION JOB: | HIGHWAY: | |
| | HARRIS | 0502 01 214 | SH225 | |

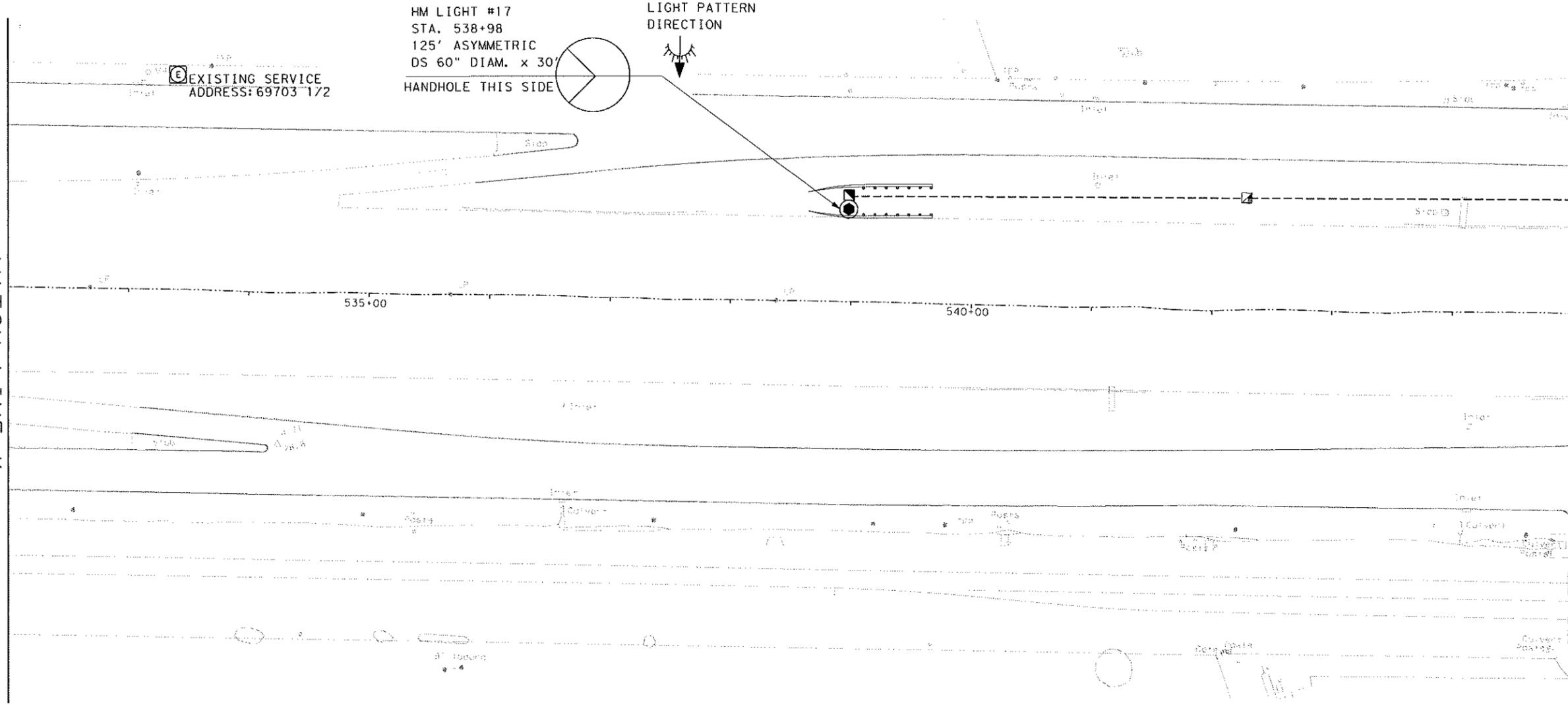
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MATCH LINE K

MATCH LINE L

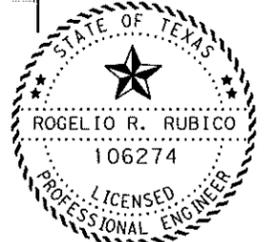


HM LIGHT #17
 STA. 538+98
 125' ASYMMETRIC
 DS 60" DIAM. x 30'
 HANDHOLE THIS SIDE



LEGEND

- NEW HIGH MAST (100 MPH) POLE AND ASSEMBLY
- EXISTING HIGH MAST POLE TO REMAIN
- NEW SERVICE
- EXISTING SERVICE TO BE REMOVED OR AS NOTED
- BORING HOLE
- NEW GROUND BOX
- NEW JUNCTION BOX
- NEW 30A HEAVY DUTY FUSED DISCONNECT SWITCH WITH NEMA 3R ENCLOSURE
- NEW UNDERGROUND PVC AND CONDUCTORS
- NEW BORED CONDUIT AND CONDUCTORS
- NEW EXPOSED RMC AND CONDUCTORS
- EXISTING OVERHEAD TRANSMISSION LINE
- NEW MBG, SGT AND DAT (SEE NOTE NO. 17)
- NEW UNDERPASS LIGHTS
- EXISTING UNDERPASS LIGHTS TO BE REMOVED
- EXISTING RDWY ILL TO BE REMOVED



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| ASSEMBLY | COORDINATE | | WATT | DESCRIPTION | HEIGHT (FT) |
|----------|--------------|---------------|------|---|-------------|
| | X | Y | | | |
| HM 17 | 3204164.0799 | 13827766.5979 | 4800 | HI MST ILL ASM (12-400WATT) (ASYM) (TY A) | 125' |

NOTES:

1. COORDINATES SHOWN ARE SURFACE AND MAY BE CONVERTED TO GRID BY DIVIDING BY A COMBINED SCALE FACTOR OF 1.00013.
2. THE CONTRACTOR WILL NOT BE PERMITTED TO USE ANY EQUIPMENT THAT CAN SWING OR BOOM INTO THE RAILROAD RIGHT OF WAY. EQUIPMENT THAT HAS A LENGTH OR HEIGHT SUFFICIENT TO REACH THE TRACK SHOULD IT TIP OVER, WILL REQUIRE A RAILROAD FLAG MAN REGARDLESS OF THE DISTANCE FROM THE TRACK.

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LIGHTING LAYOUT

SH 225

SCALE: 1" = 100' SHEET 12 OF 17

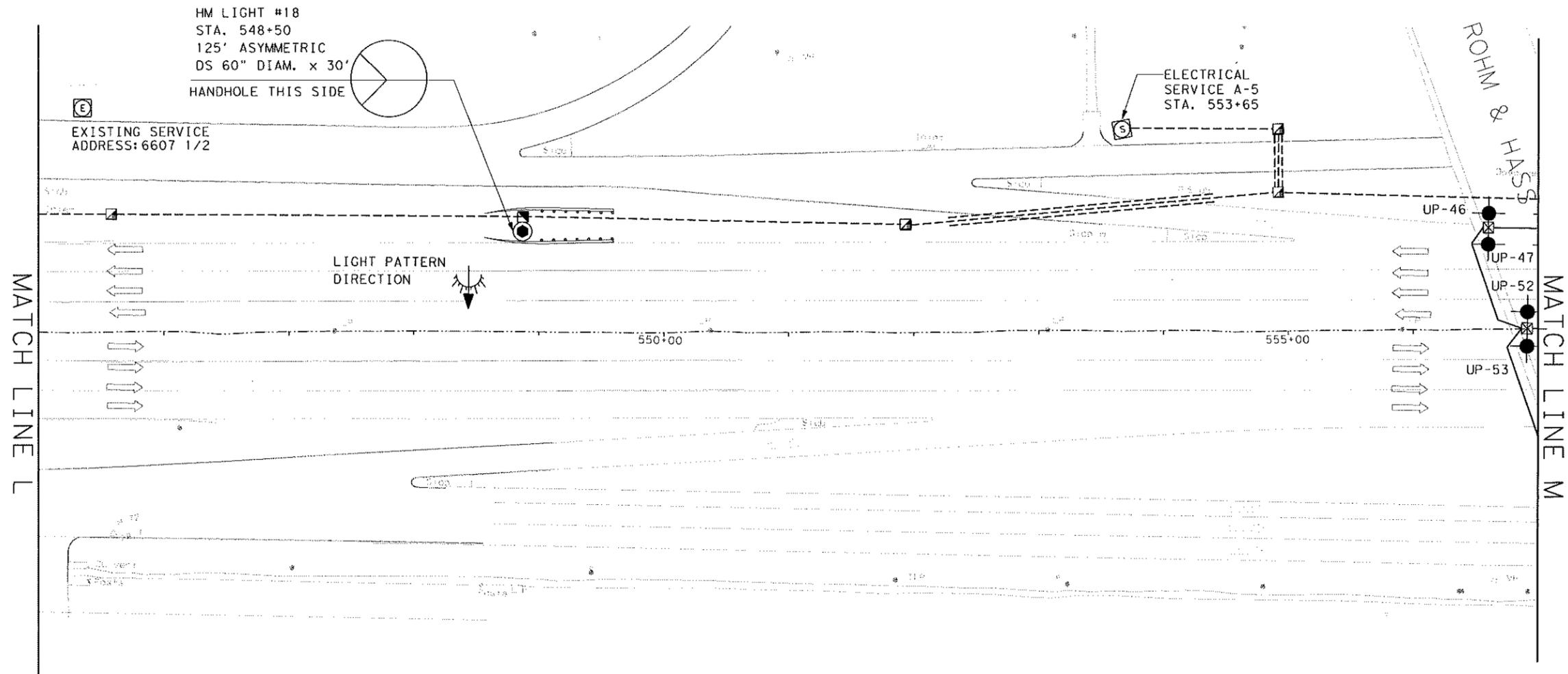
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|------------------------|-----------------|------------------|----------------------|----------|
| ORIGINAL DRAWING DATE: | STATE DISTRICT: | FEDERAL REGION: | FEDERAL AID PROJECT: | SHEET: |
| 12/11/17 | 12 | 6 | | 33 |
| REVISORS: | COUNTY: | CONTROL SECTION: | JOB: | HIGHWAY: |
| | HARRIS | 0502 | 01 214 | SH225 |

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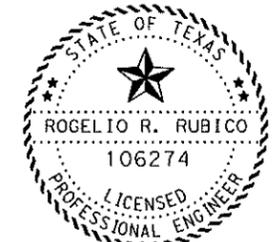
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LEGEND

- NEW HIGH MAST (100 MPH) POLE AND ASSEMBLY
- EXISTING HIGH MAST POLE TO REMAIN
- NEW SERVICE
- EXISTING SERVICE TO BE REMOVED OR AS NOTED
- BORING HOLE
- NEW GROUND BOX
- NEW JUNCTION BOX
- NEW 30A HEAVY DUTY FUSED DISCONNECT SWITCH WITH NEMA 3R ENCLOSURE
- NEW UNDERGROUND PVC AND CONDUCTORS
- NEW BORED CONDUIT AND CONDUCTORS
- NEW EXPOSED RMC AND CONDUCTORS
- EXISTING OVERHEAD TRANSMISSION LINE
- NEW MBG, SGT AND DAT (SEE NOTE NO. 17)
- NEW UNDERPASS LIGHTS
- EXISTING UNDERPASS LIGHTS TO BE REMOVED
- EXISTING RDWY ILL TO BE REMOVED



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| ASSEMBLY | COORDINATE | | WATT | DESCRIPTION | HEIGHT (FT) |
|----------|--------------|---------------|------|---|-------------|
| | X | Y | | | |
| HM 3 | 3205111.6099 | 13827487.0702 | 4800 | HI MST ILL ASM (12-400WATT) (ASYM) (TY A) | 125' |

NOTES:

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LIGHTING LAYOUT
 SH 225

SCALE: 1" = 100' SHEET 13 OF 17

| | | | | |
|------------------------|-----------|-----------------------------------|---------------------|-------|
| ORIGINAL DRAWING DATE: | REVISIONS | STATE / FEDERAL DISTRICT / REGION | FEDERAL AID PROJECT | SHEET |
| DL-1-RTE11 | | 12 / 6 | | 34 |
| DL-1-000 | | COUNTY | CONTROL SECTION JOB | |
| DL-1-RTE11 | | HARRIS | 0502 01 214 | SH225 |
| DL-1-RM | | | | |

\$TIME\$
 \$DATE\$
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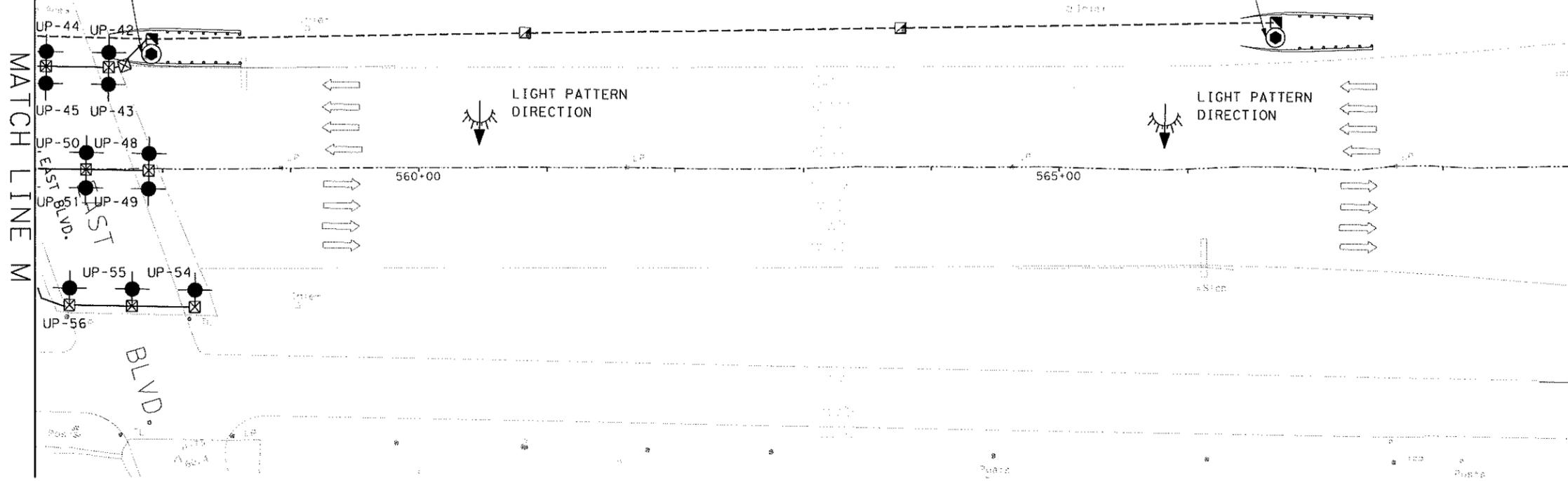
\$TIME\$ \$DATE\$

HM LIGHT #19
125' ASYMMETRIC
DS 60" DIAM. x 30'
HANDHOLE THIS SIDE

HM LIGHT #20
125' ASYMMETRIC
DS 60" DIAM. x 30'
HANDHOLE THIS SIDE

MATCH LINE M

MATCH LINE N



LEGEND

- NEW HIGH MAST (100 MPH) POLE AND ASSEMBLY
- EXISTING HIGH MAST POLE TO REMAIN
- NEW SERVICE
- EXISTING SERVICE TO BE REMOVED OR AS NOTED
- BORING HOLE
- NEW GROUND BOX
- NEW JUNCTION BOX
- NEW 30A HEAVY DUTY FUSED DISCONNECT SWITCH WITH NEMA 3R ENCLOSURE
- NEW UNDERGROUND PVC AND CONDUCTORS
- NEW BORED CONDUIT AND CONDUCTORS
- NEW EXPOSED RMC AND CONDUCTORS
- EXISTING OVERHEAD TRANSMISSION LINE
- NEW MBG, SGT AND DAT (SEE NOTE NO. 17)
- NEW UNDERPASS LIGHTS
- EXISTING UNDERPASS LIGHTS TO BE REMOVED
- EXISTING RDWY ILL TO BE REMOVED



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| ASSEMBLY | COORDINATE | | WATT | DESCRIPTION | HEIGHT (FT) |
|----------|--------------|---------------|------|---|-------------|
| | X | Y | | | |
| HM 19 | 3205983.8360 | 13827247.9462 | 4800 | HI MST ILL ASM (12-400WATT) (ASYM) (TY A) | 125' |
| HM 20 | 3206830.3614 | 13827017.4608 | 4800 | HI MST ILL ASM (12-400WATT) (ASYM) (TY A) | 125' |

NOTES:

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LIGHTING LAYOUT

SH 225

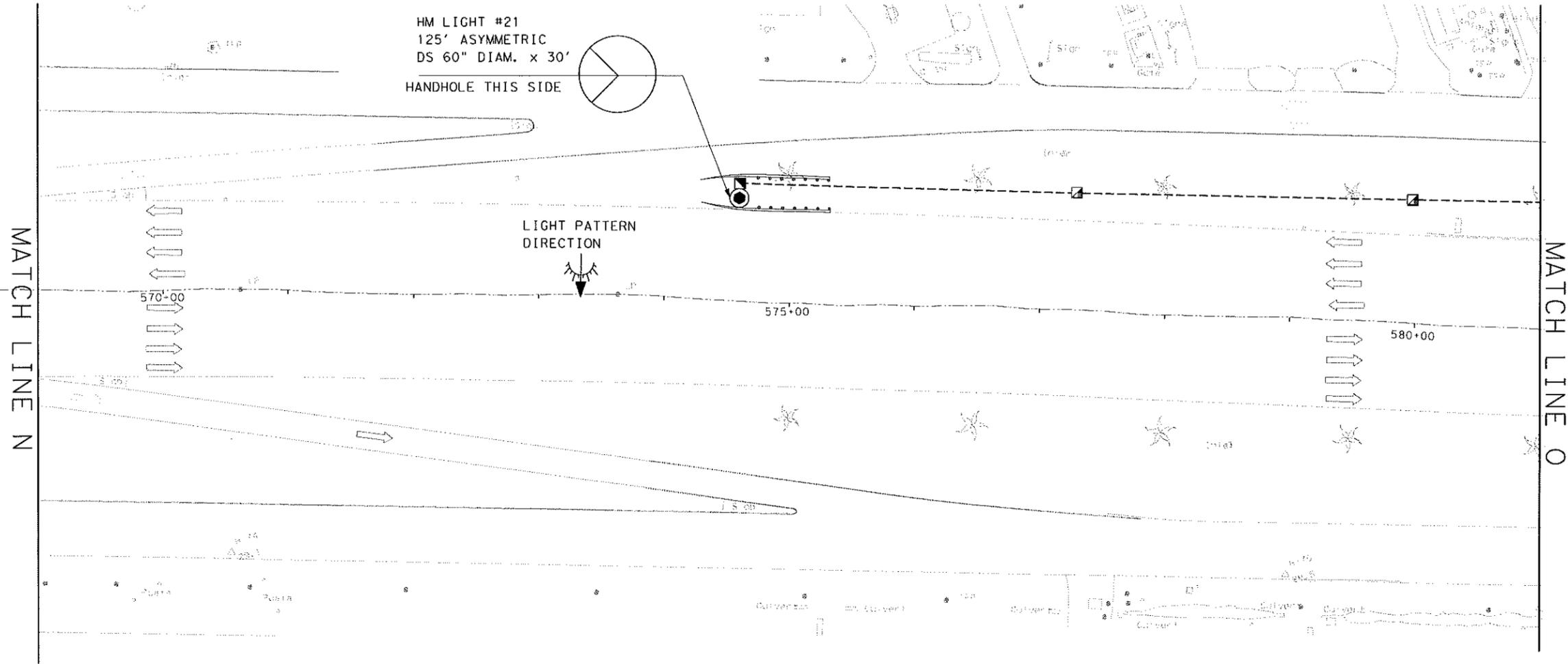
SCALE: 1" = 100' SHEET 14 OF 17

| | | | | |
|------------------------|------------|-----------------------|---------------------|---------|
| ORIGINAL DRAWING DATE: | REVISIONS: | STATE DISTRICT REGION | FEDERAL AID PROJECT | SHEET |
| 08.1.07 | | 12 6 | | 35 |
| 08.1.07 | | COUNTY | CONTROL SECTION JOB | HIGHWAY |
| 08.1.07 | | HARRIS | 0502 01 214 | SH225 |

STIMES
SDATES
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STIMES SDATES



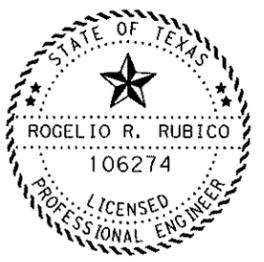
LEGEND

-  NEW HIGH MAST (100 MPH) POLE AND ASSEMBLY
-  EXISTING HIGH MAST POLE TO REMAIN
-  NEW SERVICE
-  EXISTING SERVICE TO BE REMOVED OR AS NOTED
-  BORING HOLE
-  NEW GROUND BOX
-  NEW JUNCTION BOX
-  NEW 30A HEAVY DUTY FUSED DISCONNECT SWITCH WITH NEMA 3R ENCLOSURE
-  NEW UNDERGROUND PVC AND CONDUCTORS
-  NEW BORED CONDUIT AND CONDUCTORS
-  NEW EXPOSED RMC AND CONDUCTORS
-  EXISTING OVERHEAD TRANSMISSION LINE
-  NEW MBG, SGT AND DAT (SEE NOTE NO. 17)
-  NEW UNDERPASS LIGHTS
-  EXISTING UNDERPASS LIGHTS TO BE REMOVED
-  EXISTING RDWY ILL TO BE REMOVED

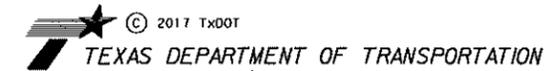
| ASSEMBLY | COORDINATE | | WATT | DESCRIPTION | HEIGHT (FT) |
|----------|--------------|---------------|------|---|-------------|
| | X | Y | | | |
| HM 21 | 3207583.2694 | 13826771.5926 | 4800 | HI MST ILL ASM (12-400WATT) (ASYM) (TY A) | 125' |

NOTES:

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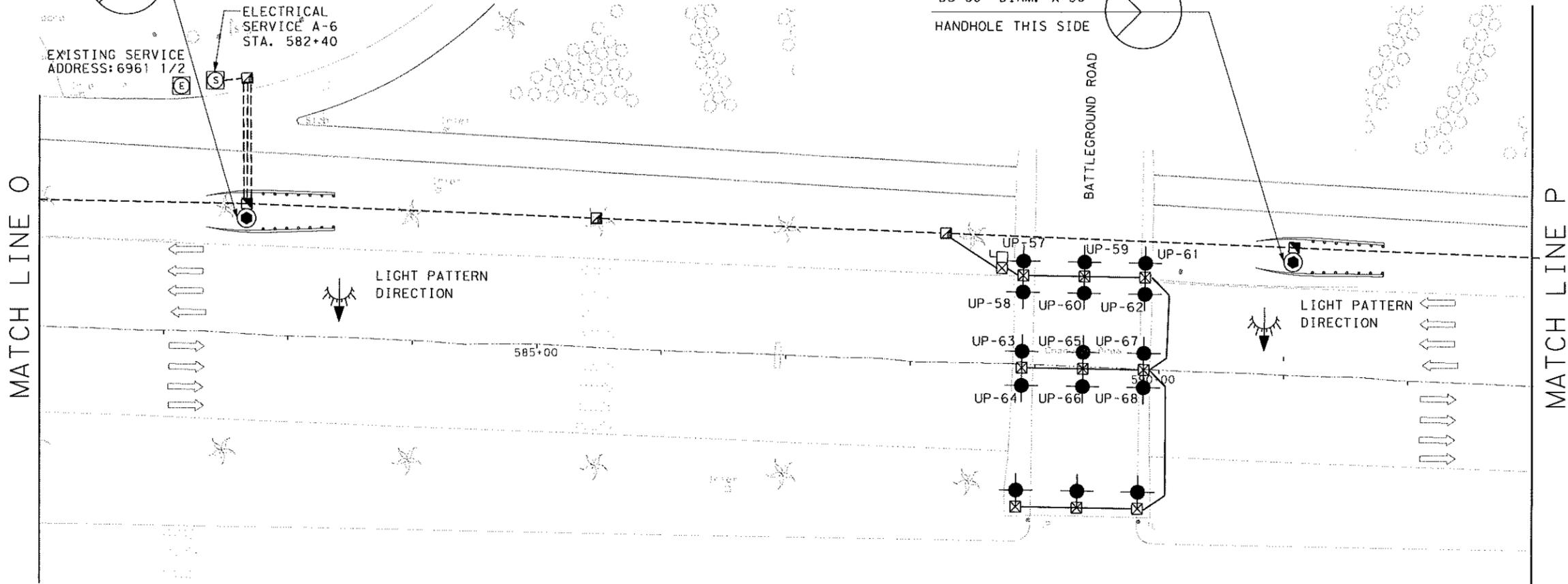
LIGHTING LAYOUT
SH 225

SCALE: 1" : 100' SHEET 15 OF 17

| | | | | |
|------------------------|-----------|-------------------|----------------------|----------|
| ORIGINAL DRAWING DATE: | STATE: | FEDERAL DISTRICT: | FEDERAL AID PROJECT: | SHEET: |
| DATE: | 12 | 6 | | 36 |
| REVISIONS: | CONTRACT: | CONTROL SECTION: | JOB: | HIGHWAY: |
| | HARRIS | 0502 01 | 214 | SH225 |

HM LIGHT #22
 125' ASYMMETRIC
 DS 60" DIAM. x 30'
 HANDHOLE THIS SIDE

HM LIGHT #23
 125' ASYMMETRIC
 DS 60" DIAM. x 30'
 HANDHOLE THIS SIDE



MATCH LINE O

MATCH LINE P

LEGEND

- NEW HIGH MAST (100 MPH) POLE AND ASSEMBLY
- EXISTING HIGH MAST POLE TO REMAIN
- NEW SERVICE
- EXISTING SERVICE TO BE REMOVED OR AS NOTED
- BORING HOLE
- NEW GROUND BOX
- NEW JUNCTION BOX
- NEW 30A HEAVY DUTY FUSED DISCONNECT SWITCH WITH NEMA 3R ENCLOSURE
- NEW UNDERGROUND PVC AND CONDUCTORS
- NEW BORED CONDUIT AND CONDUCTORS
- NEW EXPOSED RMC AND CONDUCTORS
- EXISTING OVERHEAD TRANSMISSION LINE
- NEW MBG, SGT AND DAT (SEE NOTE NO. 17)
- NEW UNDERPASS LIGHTS
- EXISTING UNDERPASS LIGHTS TO BE REMOVED
- EXISTING RDWY ILL TO BE REMOVED

| ASSEMBLY | COORDINATE | | WATT | DESCRIPTION | HEIGHT (FT) |
|----------|--------------|---------------|------|---|-------------|
| | X | Y | | | |
| HM 22 | 3208353.0903 | 13826531.1504 | 4800 | HI MST ILL ASM (12-400WATT) (ASYM) (TY A) | 125' |
| HM 23 | 3209153.4877 | 13826268.7321 | 4800 | HI MST ILL ASM (12-400WATT) (ASYM) (TY A) | 125' |

NOTES:

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LIGHTING LAYOUT
 SH 225

SCALE: 1" = 100' SHEET 16 OF 17

| | | | | |
|------------------------|------------|------------------------|------------------------------|--------|
| ORIGINAL DRAWING DATE: | REVISIONS: | STATE DISTRICT REGION: | FEDERAL AID PROJECT: | SHEET: |
| | | 12 6 | | 37 |
| DATE: | DATE: | DATE: | CONTROL SECTION JOB HIGHWAY: | |
| | | | HARRIS 0502 01 214 SH225 | |

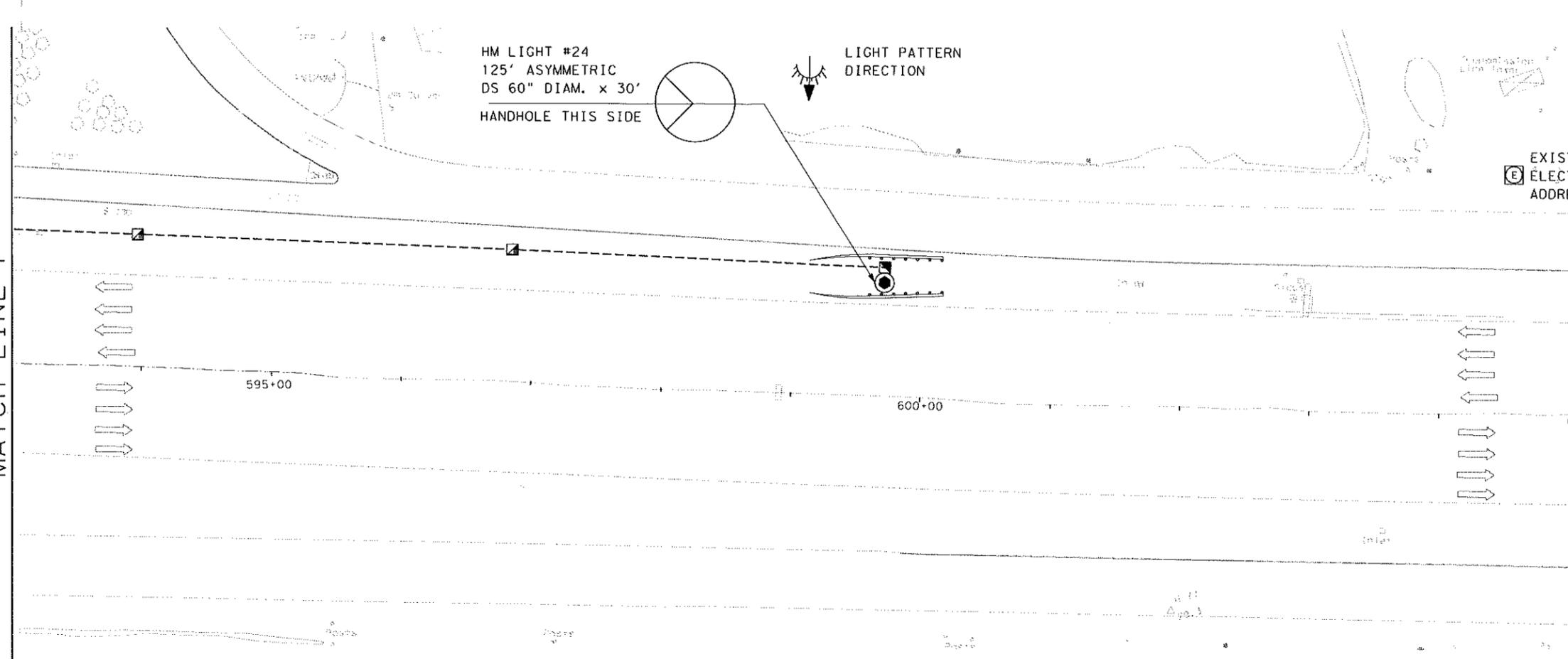
ST LINES
 DATE: 9
 FILE: 8

9 FILE: 8

ST LINES

DATE: 8

MATCH LINE P



HM LIGHT #24
125' ASYMMETRIC
DS 60" DIAM. x 30'
HANDHOLE THIS SIDE

LIGHT PATTERN
DIRECTION

EXISTING
ELECTRICAL SERVICE
ADDRESS: 11601 1/2

LEGEND

- NEW HIGH MAST (100 MPH) POLE AND ASSEMBLY
- EXISTING HIGH MAST POLE TO REMAIN
- NEW SERVICE
- EXISTING SERVICE TO BE REMOVED OR AS NOTED
- BORING HOLE
- NEW GROUND BOX
- NEW JUNCTION BOX
- NEW 30A HEAVY DUTY FUSED DISCONNECT SWITCH WITH NEMA 3R ENCLOSURE
- NEW UNDERGROUND PVC AND CONDUCTORS
- NEW BORED CONDUIT AND CONDUCTORS
- NEW EXPOSED RMC AND CONDUCTORS
- EXISTING OVERHEAD TRANSMISSION LINE
- NEW MBG, SGT AND DAT (SEE NOTE NO. 17)
- NEW UNDERPASS LIGHTS
- EXISTING UNDERPASS LIGHTS TO BE REMOVED
- EXISTING ROW ILL TO BE REMOVED

| ASSEMBLY | COORDINATE | | WATT | DESCRIPTION | HEIGHT (FT) |
|----------|--------------|---------------|------|---|-------------|
| | X | Y | | | |
| HM 24 | 3209971.5681 | 13825989.1300 | 4800 | HI MST ILL ASM (12-400WATT) (ASYM) (TY A) | 125' |

NOTES:

1. COORDINATES SHOWN ARE SURFACE AND MAY BE CONVERTED TO GRID BY DIVIDING BY A COMBINED SCALE FACTOR OF 1.00013.
2. THE CONTRACTOR WILL NOT BE PERMITTED TO USE ANY EQUIPMENT THAT CAN SWING OR BOOM INTO THE RAILROAD RIGHT OF WAY. EQUIPMENT THAT HAS A LENGTH OR HEIGHT SUFFICIENT TO REACH THE TRACK SHOULD IT TIP OVER, WILL REQUIRE A RAILROAD FLAG MAN REGARDLESS OF THE DISTANCE FROM THE TRACK.



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TEXAS DEPARTMENT OF TRANSPORTATION

LIGHTING LAYOUT
SH 225

SCALE: 1" = 100' SHEET 17 OF 17

| | | | | | |
|------------------------|------------|-----------------|------------------|----------------------|----------|
| ORIGINAL DRAWING DATE: | REVISIONS: | STATE DISTRICT: | FEDERAL REGION: | FEDERAL AID PROJECT: | SHEET: |
| | | 12 | 6 | | 38 |
| DR. - RTRK | | COUNTY: | CONTROL SECTION: | JOB: | HIGHWAY: |
| DR. - RTRK | | HARRIS | 0502 01 | 214 | SH225 |