

# CONSTRUCTION PLANS FOR MUNICIPAL COMPLEX TRAIL LIGHTING W2017-76-A



**ERIC HOGUE**  
MAYOR

**KEITH STEPHENS**  
MAYOR PRO-TEM  
CITY COUNCIL MEMBER PLACE 1

**MATTHEW PORTER**  
CITY COUNCIL MEMBER PLACE 2

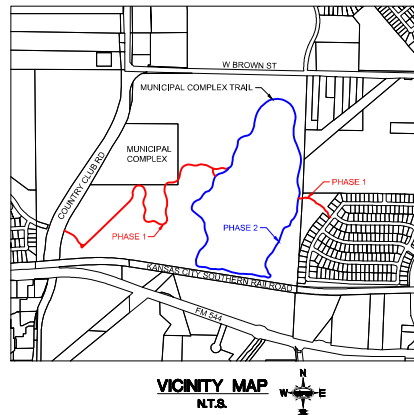
**JEFF FORRESTER**  
CITY COUNCIL MEMBER PLACE 3

**CANDY ARRINGTON**  
CITY COUNCIL MEMBER PLACE 4

**DR. TIMOTHY T. WALLIS**  
CITY COUNCIL MEMBER PLACE 5

**DAVID DAHL**  
CITY COUNCIL MEMBER PLACE 6

## CITY OF WYLIE, TEXAS



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# JULY 2018

ENGINEER  
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JOSEPH E. HELMBERGER, P.E.

- STREET NAME SIGNS FOR ALL INTERSECTIONS BY THE CONSTRUCTION OF A SUBDIVISION SHALL BE FURNISHED AND INSTALLED BY THE DEVELOPER. THE INSTALLATION OF THE STREET SIGNS MUST BE PRIOR TO THE FINAL ACCEPTANCE OF THE SUBDIVISION. THE LEGEND SHALL CONTAIN THE NAME OF THE STREET, ANY SUFFIX DESIGNATED ON THE PLAT, AND THE BLOCK NUMBER AS ASSIGNED BY THE CITY. THE SIGN SHALL BE PROScribed, 24 INCH TALL BY 18 INCH WIDE. THE SIGN SHALL BE 1/8 INCH THICK, 1/8 INCH BORE, 1/8 INCH THICK PLATE ALUMINUM DRILL, AND THE SIGN SHALL BE 6 INCH UPPER CASE LETTERS. THE SUFFIX AND BLOCK LETTERS SHALL BE 3 INCHES. ALL LETTERS SHALL BE WHITE. THE SIGNS SHALL BE MOUNTED ON A 2 INCH BY 12 FOOT SQUARE POST WITH A 2.25 INCH BY 36 INCH SQUARE GROUND ANCHOR AND 2.5 INCH BY 18 INCH SLEEVE. THE ANCHOR POST SHALL BE DRIVEN INTO THE GROUND TO A DEPTH OF 48 INCHES. THE STREET NAME SHALL BE MOUNTED 10 FEET FROM THE TOP OF THE POST MEASURED TO THE BOTTOM OF THE SIGN. THE SIGN SHALL BE MOUNTED ON SQUARE POSTS USING DRIVE NUTS, WASHER, SPACE AND CHERRY WAVE NUTS TO ATTACH ENDS OF SIGNS TOGETHER.

15. IF WROUGHT IRON FENCING IS TO BE UTILIZED ON REQUIRED SCREENING, ALL WROUGHT IRON MUST BE SOLID STOCK, NO TUBULAR STEEL WILL BE ALLOWED.

SHEET

0-00

SHEET NUMBER  
STD-00 F



[illegible]

**Kimley»Horn**  
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KHA PROJECT: 064478708	DATE JULY 2018	SCALE AS SHOWN	DESIGNED BY: D.	DRAWN BY: D.	CHECKED BY: D.
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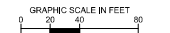
2012 INTERNATIONAL BUILDING CODE (IBC)  
2012 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)  
2012 UNIFORM MECHANICAL CODE (UMC)  
2012 UNIFORM PLUMBING CODE (UPC)  
2011 NATIONAL ELECTRICAL CODE (NEC)  
2012 INTERNATIONAL FIRE CODE






SHEET NUMBER		G-1		GENERAL NOTES		MUNICIPAL COMPLEX TRAIL LIGHTING WYILE, TX		KIVA PROJECT: 064278700		<div>DATE: 06/20/2018</div> <div>BY: JAC</div>		<div>DATE: 06/20/2018</div> <div>BY: JAC</div>						<div>DATE: 06/20/2018</div> <div>BY: JAC</div>		<div>DATE: 06/20/2018</div> <div>BY: JAC</div>	
						PREPARED FOR CITY OF WYILE															











LEGEND	
TRAIL LIGHT (SEE FIXTURE SCHEDULE)	
TRAIL LIGHT (SEE FIXTURE SCHEDULE)	
JUNCTION BOX (16"x22"x14")	
1.5" RGS CONDUIT - BRIDGE MOUNTED	— — — —
1.5" SCH 40 PVC CONDUIT	— — — —
LIGHTING CONTROLLER CABINET	
POWER PEDESTAL AND LIGHTING CONTROLLER	

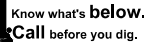
LIGHT FIXTURE SCHEDULE	
SYMBOL	POLE
 CREE - A-RE-ADR 2MB-RS-04E-JUL-BK-30.0DM	CREE - 10" 5" H X 6" DIAMETER BLACK DIE CAST ALUMINUM WITH POWDER COAT FINISH
 CREE - RSVM-A-HT 3ME-GL-40K7-UL-0Y-4N	CREE - 25" H X 6" DIAMETER BLACK DIE CAST ALUMINUM

[illegible]

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, AND FOR THE PROTECTION OF SUCH UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, TO BE EXCAVATED OR UNDERGROUNDED FACILITIES, OR TO BE EXCAVATED TO THE SURFACE APPROPRIATE AND BASIC ON INFORMATION FURNISHED BY THE OWNERS OF SUCH UTILITIES, AND FOR THE PROTECTION OF SUCH UTILITIES. INFORMATION RECEIVED BY THE FIELD, THE OWNER AND ENGINEER SHALL NOT BE CONSIDERED AS THE ADEQUATE BASIS FOR THE CONTRACTOR'S LOCATION OF INFORMATION DATA. THE CONTRACTOR WILL HAVE FULL RESPONSIBILITY FOR THE LOCATION OF ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, TO BE EXCAVATED OR UNDERGROUNDED FACILITIES, FOR COORDINATION OF THE WORK WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES DURING CONSTRUCTION AND FOR THE PROTECTION OF SUCH UTILITIES, AND FOR REPAIRING ANY DAMAGE THEREBY RESULTING FROM THE WORK. THE COST OF SUCH REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. IN THE EVENT OF ANY DAMAGE INCURRED BY THE CONTRACTOR, THE CONTRACTOR SHALL NOTIFY ANY AFFECTED UTILITIES COMPANIES OR AGENCIES IN WRITING AT LEAST 48 HOURS PRIOR TO ANY RESTRICTION.

6. THE CONTRACTOR SHALL USE EXTREME CARE WHEN WORKING IN AREAS WHERE THERE ARE KNOWN AND UNKNOWN UTILITIES, AND WHERE THERE ARE CABLES, FIBEROPTIC LINES AND UNDERGROUND TELEPHONE CABLES. IN THE EVENT OF ANY DAMAGE TO ANY UTILITIES OR CABLES, THE CONTRACTOR SHALL REPLACE OR REPAIR THE UTILITIES OR CABLES TO THE SAME OR BETTER CONDITION AS BEFORE THE DAMAGE. CONSTRUCTION OR UTILITY, UNLESS OTHERWISE SHOWN ON THE PLANS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DAMAGE TO ANY UTILITIES OR CABLES.

<p><b>CAUTION!!!</b></p> <p>ATMOS GAS LINE IN AREA. CONTRACTOR TO UTILIZE TEXAS ONE CALL SYSTEM TO MARK ALL GAS LINES PRIOR TO EXCAVATION.</p> <p>ATMOS CONTACT: JOE CABEZUELA PHONE: 872-455-8234</p>	<p><b>CAUTION!!!</b></p> <p>NITMWD WATERLINE IN AREA. CONTRACTOR TO CONTACT NITMWD LINE LOCATES AT 469-626-4569 72 HOURS PRIOR TO WORKING IN NITMWD EASEMENT IN ORDER TO SCHEDULE A REPRESENTATIVE TO BE ON SITE.</p> <p>NITMWD LINE LOCATES: 469-626-4569</p>
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[illegible]

**Kimley»Horn**



KHA PROJECT: 064478708	DATE JULY 2018	SCALE: AS SHOWN	DESIGNED BY: DJC	DRAWN BY: DJC	CHECKED BY: DYE
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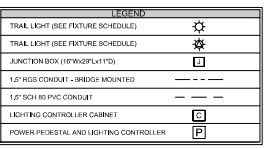
MUNICIPAL COMPLEX  
TRAIL LIGHTING



## ELECTRICAL LAYOUT

SHEET NUMBER  
E-1



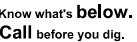
MATCHLINE - SEE SHEET E-1



LIGHT FIXTURE SCHEDULE		
SYMBOL	LAMP	POLE
	CREE • ARE-EDR 2MBR-04-EJ-LB-K-30-G-DM	CREE • 10'-2" H x 6" DIAMETER BLACK DIE CAST ALUMINUM WITH POWDER COAT FINISH
	CREE • RSWM-S-WHT- 3ME-04-43K7-LJ-L-GY-4I	CREE • 25" H x 6" DIAMETER BLACK DIE CAST ALUMINUM

[illegible][illegible]

<p><b>CAUTION:</b>          ATMOS GAS LINE IN AREA. CONTRACTOR TO          UTILIZE TEXAS ONE CALL SYSTEM TO MARK          ALL GAS LINES PRIOR TO EXCAVATION.</p>	<p><b>CAUTION:</b>          NITROD WATER LINE IN AREA. CONTRACTOR TO          CONTACT NITROD LINE LOCATES AT          486-626-4569 72 HOURS PRIOR TO WORKING IN          NITROD EASEMENT IN ORDER TO SCHEDULE A          REPRESENTATIVE TO BE ON SITE.</p>
<p>ATMOS CONTACT: JOE CABEZUELA          PHONE: 972-468-6234</p>	<p>NITROD LINE LOCATES: 486-626-4569</p>

[illegible]

**MUNICIPAL COMPLEX  
TRAIL LIGHTING**  
WYLIE, TX

PREPARED FOR  
**CITY OF WYLIE**

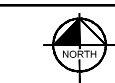
## ELECTRICAL LAYOUT






SHEET NUMBER  
E-2





MATCHLINE - SEE SHEET E-2

MATCHLINE - SEE SHEET E-2



LEGEND	
TRAIL LIGHT (SEE FIXTURE SCHEDULE)	
TRAIL LIGHT (SEE FIXTURE SCHEDULE)	
JUNCTION BOX (16Wx2PLx11D)	
1.5" RGS CONDUIT - BRIDGE MOUNTED	— — — —
1.5" SCH 80 PVC CONDUIT	— — — —
LIGHTING CONTROLLER CABINET	
POWER PEDESTAL AND LIGHTING CONTROLLER	

LIGHT FIXTURE SCHEDULE		
SYMBOL	LAMP	POLE
	CREE - ARE-EDR 2MR-04-LEJ-LB-K-300-DIM	CREE - 10'-5" H x 6" DIAMETER BLACK DIE CAST ALUMINUM WITH POWDER COAT FINISH
	CREE - RSV-M-WHT 3ME-5L-40K7-LL-GY-N	CREE - 25' H x 6" DIAMETER BLACK DIE CAST ALUMINUM

- ### NOTES
1. ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH APPLICABLE CURRENT STANDARDS, NEC, NEMA, LOCAL REQUIREMENTS, AND THE PROJECT PLANS.
  2. FIELD VERIFY EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE DIGGING. REPAIR DAMAGE.
  3. ELECTRICAL CONDUIT FOR LIGHTING SHALL BE PVC 1-1/2" SCHEDULE 80, OR AS NEEDED BY THE UTILITY PROVIDER.
  4. CONDUIT SHALL BE PLACED IN A TRENCH AT LEAST 24" BELOW FINISHED GRADE, INSTALLED IN 10' MAX. PLASTIC WARNING TAPS 18" ABOVE 120' OF CONDUIT.
  5. SEAL ALL CONDUIT ENDS WITH LIGHTING CROUZE WITH AT LEAST THREE FEET OF POLYURETHANE GRAU APPROVED BY THE ENGINEER THAT WILL NOT ADVERSELY AFFECT THE LIGHTING.
  6. PROVIDE INSULATED ELECTRICAL CONDUCTORS WITH NEC TYPE XHHW, OR OTHER CPC INSULATED CABLE FOR A MINIMUM OF 800 V. EXCEPT FIBER AND AWG SOLID BARE CONDUCTORS.
  7. PROVIDE BLACK AT EACH JUNCTION BOX.
  8. JUNCTION BOXES SHALL BE POLYMER CONSTRUCTION.
  9. INSTALL A NEMA 3R INDUSTRIAL ELECTRICAL SERVICE THAT COMPLIES WITH OHIO ELECTRICAL CODE, AND PROVIDE THE SERVICE TO BE PROVIDED BY ONCOR, CONDUIT GROUND CLIPPING AT (773) 965-3767.
  10. ALL FEATURES ARE RATED TO OPERATE AT 240 VOLT.
  11. CREEP FEATURES SHALL BE SUPPLIED, INSTALLED AND OTHER WARRANTED BY MYRISO SCULPTURE.
  12. MODIFY CONCRETE STRUCTURES AND CONCRETE OR OTHER PAVED PATHWAYS (AS APPLICABLE) UNLESS OTHERWISE NOTED. ANY DAMAGE SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
  13. 120" LIGHTS SHALL BE INSTALLED WITH UTILITY EASEMENTS.
  14. SURVEYING METHODS AND EASEMENTS SHOWN ARE APPROPRIATE AND HAVE NOT BEEN REVERTED.
- CONTRACTOR TO STAKE THE LOCATIONS OF LIGHTS AND CONDUIT ONCE DETERMINED. CONTRACTOR TO BE RESPONSIBLE PRIOR TO DISBURSING FOUNDATIONS. CONTRACTOR TO AUGUST 15TH LOCATIONS IN THE FIELD AS NECESSARY AND AS DIRECTED BY THE CITY OF WYOMING AND THE CITY OF WYOMING.

UTILITY NOTES:



- [illegible]

<p><b>CAUTION!!!</b>          ATMOS GAS LINE IN AREA. CONTRACTOR TO          UTILIZE TEXAS ONE CALL SYSTEM TO MARK          ALL GAS LINES PRIOR TO EXCAVATION.</p>	<p><b>CAUTION!!!</b>          NTMWD WATERLINE IN AREA. CONTRACTOR TO          CONTACT NTMWD LINE LOCATES AT          469-626-4569 72 HOURS PRIOR TO WORKING IN          NTMWD EASEMENT IN ORDER TO SCHEDULE A          REPRESENTATIVE TO BE ON SITE.</p>
<p>ATMOS CONTACT: JOE CABEZUELA          PHONE: 972-466-6234</p>	<p>NTMWD LINE LOCATES: 469-626-4569</p>



Know what's **below.**  
• **Call** before you dig.



SHEET NUMBER		E-3		ELECTRICAL LAYOUT		MUNICIPAL COMPLEX TRAIL LIGHTING WYLYE, TX  PREPARED FOR CITY OF WYLYE		KIMLEY-HORN 96472700 DATE JULY 2018 SCALE AS SHOWN DESIGNED BY DJC DRAWN BY DJC CHECKED BY		7-26-18				 WWW.KIMLEY-HORN.COM TX 6228 © 2018 KIMLEY-HORN AND ASSOCIATES, INC.		NO. REVISIONS DATE BY	

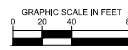
**MUNICIPAL COMPLEX  
TRAIL LIGHTING**






# ELECTRICAL LAYOUT



SHEET NUMBER  
E-3



**MATCHLINE - SEE SHEET E-5**



LEGEND	
TRAIL LIGHT (SEE FIXTURE SCHEDULE)	
TRAIL LIGHT (SEE FIXTURE SCHEDULE)	
JUNCTION BOX (16"Wx21"Lx1"D)	
1.5" RGS CONDUIT - BNDGE MOUNTED	— — —
1.5" SCH 80 PVC CONDUIT	— — —
LIGHTING CONTROLLER CABINET	
POWER PEDESTAL AND LIGHTING CONTROLLER	

LIGHT FIXTURE SCHEDULE		
SYMBOL	LAMP	POLE
	CREE • AREDR 2MR-R5-J4-LC-BK-300-DM	CREE • 10'-0" H x 6" DIAMETER BLACK DIE CAST ALUMINUM WITH POWDER COAT FINISH
	CREE • R5WM-WHT 3ME-SL-40K-UL-GY-N	CREE • 25" H x 6" DIAMETER BLACK DIE CAST ALUMINUM

## NOTES

- [illegible]

### UTILITY NOTES

- [illegible]

<p><b>CAUTION:</b>          ATMOS GAS LINE IN AREA. CONTRACTOR TO          UTILIZE TEXAS ONE CALL SYSTEM TO MARK          ALL GAS LINES PRIOR TO EXCAVATION.</p>	<p><b>CAUTION:</b>          NITROD WATER LINE IN AREA. CONTRACTOR TO          CONTACT NITROD LINE LOCATES AT          486-626-4589 72 HOURS PRIOR TO WORKING IN          NITROD EASEMENT IN ORDER TO SCHEDULE A          REPRESENTATIVE TO BE ON SITE.</p>
<p>ATMOS CONTACT: JOE CABEZUELA          PHONE: 972-468-6234</p>	<p>NITROD LINE LOCATES: 486-626-4589</p>



Know what's **below**  
• **Call** before you dig.



**MUNICIPAL COMPLEX  
TRAIL LIGHTING**  
WYLIE, TX  
PREPARED FOR  
CITY OF WYLIE

## ELECTRICAL LAYOUT

SHEET NUMBER  
E-4

[illegible]

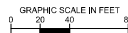
**Kimley»Horn**  
1660 EAST DAVIS STREET, SUITE 100, MCKINNEY, TX 75069  
PHONE: 469-201-2580  
WWW.KIMLEY-HORN.COM TX F-4228  
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DATE	AS SHOWN
JULY 2018	
DESIGNED BY:	DJC
DRAWN BY:	DJC
CHECKED BY:	DYE



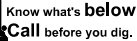
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LIGHT FIXTURE SCHEDULE		
SYMBOL	LAMP	POLE
	CREE - A-RE4D 2MBR-04E-JL-BK-30G-DM	CREE - 10'-5" H x 6" DIA. METAL BLACK DIE CAST ALUMINUM WITH POWDER COAT FINISH
	CREE - RS4M-A-H-T 3ME-04-K07-JL-GY-N	CREE - 25' H x 6" DIA. METAL BLACK DIE CAST ALUMINUM

UTILITY NOTES:

- |  |  |
|--|--|
| <p><b>CAUTION!!!</b></p> <p>ATMOS GAS LINE IN AREA. CONTRACTOR TO UTILIZE TEXAS ONE CALL SYSTEM TO MARK ALL GAS LINES PRIOR TO EXCAVATION.</p> <p>ATMOS CONTACT: JOE CABEZUELA<br/>PHONE: 972-655-6234</p> | <p><b>CAUTION!!!</b></p> <p>NTMWD WATERLINE IN AREA. CONTRACTOR TO CONTACT NTMWD LINE LOCATES AT 469-626-4569 72 HOURS PRIOR TO WORKING IN NTMWD EASEMENT IN ORDER TO SCHEDULE A REPRESENTATIVE TO BE ON SITE.</p> <p>NTMWD LINE LOCATES: 469-626-4569</p> |
|--|--|








## MUNICIPAL COMPLEX TRAIL LIGHTING



## ELECTRICAL LAYOUT

SHEET NUMBER  
E-5





LEGEND	
TRAIL LIGHT (SEE FIXTURE SCHEDULE)	
TRAIL LIGHT (SEE FIXTURE SCHEDULE)	
JUNCTION BOX (16"Wx21"Lx1"D)	
1.5" RGS CONDUIT - BRIDGE MOUNTED	---
1.5" SCH 80 PVC CONDUIT	---
LIGHTING CONTROLLER CABINET	
POWER PEDESTAL AND LIGHTING CONTROLLER	

LIGHT FIXTURE SCHEDULE		
SYMBOL	LAMP	POLE
	CREE - ARE-ADR 2MR-3-54E-JL-BK-350.DIM	CREE - 10" x 5" x 6" DIAMETER BLACK DIE CAST ALUMINUM WITH POWDER COAT FINISH
	CREE - RSWM-A-WT. 3ME-3L-40K7-DL-GY-N	CREE - 25" H x 6" DIAMETER BLACK DIE CAST ALUMINUM

## NO

- ### NOTES
1. ALL MATERIALS AND REQUIREMENTS SHALL COMPLY WITH APPLICABLE CURRENT STANDARDS, NEC, NEMA, LOCAL AND THE PROJECT PLANS.
  2. FIELD VERIFY EXACT LOCATION OF ALL UNDERGROUND UTILITIES BEFORE DIGGING.
  3. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC).
  4. ELECTRICAL CONDUIT FOR LIGHTING SHALL BE RIGID 1-1/2" SCHEDULE 40X OR AS REQUIRED BY THE DESIGN.
  5. ALL 4" OR 6" PLASTIC IN A TRENCH AT LEAST 18" ABOVE FINISHED GRADE. INSTALL 4" OR 6" RIMMED 404L PLASTIC VANDERBILT 12" ABOVE TOP OF CONDUIT.
  6. SEAL ALL CONDUIT ENDS WITH LIGHTING CONDUIT CAPS THAT HAVE AT LEAST THREE FEET OF 1/2" THICK REINFORCED CONCRETE SURROUNDING THE CAPS. DO NOT ADDRESS/IMPACT OTHER EXISTING UTILITIES.
  7. PROVIDE INSULATED ELECTRICAL CONDUCTORS WITH NEC TYPE XHHW, OR OTHER ELP RATED FOR UNDERGROUND USE. EXCEPT FLOW-ROD AND ALL SOLID BARE CONDUCTORS.
  8. PROVIDE SLACK AT EACH JUNCTION BOX.
  9. JUNCTION BOXES SHALL BE POLYMER CONCRETE CAST CONSTRUCTION.
  10. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), NEMA STANDARDS AND SPECIFICATIONS. ELECTRICAL SERVICES TO BE PROVIDED BY OWNER.
  11. ALL UTILITIES ARE REQUIRED TO OPERATE AT 240 VOLTS.
  12. CREEP FIGHTERS SHALL BE SUPPLIED, INSTALLED AND UNDER WARRANTY BY MUGCO SPORTS & ENTERTAINMENT.
  13. PROTECT EXISTING UTILITIES AND CONDUITS OR OTHER PAVED PATHWAYS. INCREASE OR OTHERWISE NOTICED, ANY DAMAGE SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER.
  14. ALL LIGHTS SHALL BE INSTALLED WITH UTILITY CEMENTS.
  15. NO LIGHTS SHALL BE PLACED WHERE THEY ARE APPROPRIATE AND HAVE NOT BEEN SURVEYED.
  16. ALL LIGHTING UTILITIES AND ASSESSMENTS SHOWN ARE APPROXIMATE AND HAVE NOT BEEN SURVEYED.
  17. CONTRACTOR TO STAKE THE LOCATIONS OF LIGHTS AND CONDUIT ONCE NOTIFIED BY OWNER. OWNER TO PROVIDE TO CONTRACTOR TO ADJUST LIGHT LOCATIONS IN THE FIELD AS NECESSARY AND AS DIRECTED BY THE CITY OF WYOMING AND THE STATE OF WYOMING.

## UTILITY NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MARKING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, PRIOR TO EXCAVATION. THE INFORMATION AND DATA SHOWN WITH RESPECT TO THE LOCATION OF UTILITIES AND THE INFORMATION AND DATA SHOWN WITH RESPECT TO APPROXIMATE AND BASED ON INFORMATION FURNISHED BY THE OWNER OF THE PROJECT, SHALL BE THE BASIS FOR THE CONTRACTOR'S LOCATION OF UTILITIES. IF ANY UTILITIES ARE OBSERVED IN THE FIELD, THE OWNER AND ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY SUCH INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF UTILITIES FOR REVIEWING AND CHECKING ALL SUCH INFORMATION AND DATA. FOR THE PURPOSES OF THE CONTRACT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR WORKING WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES DURING CONSTRUCTION AND FOR THE SAFETY AND PROTECTION THEREOF. THE CONTRACTOR SHALL OBTAIN THE NECESSARY PERMISSIONS AND THE COST OF ALL COORDINATION WILL BE RESPONSIBLY CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT PRICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AFFECTED UTILITY COMPANIES OR AGENCIES IN WRITING AT LEAST 48 HOURS BEFORE EXCAVATION.
- THE CONTRACTOR SHALL USE EXTREME CARE WHEN WORKING IN AREAS ADJACENT TO GAS LINES UNDERGROUND ELECTRIC CABLES, FIBER OPTIC CABLES, AND TELEPHONE LINES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND MARKING ALL SUCH UTILITIES. WHEN EXCAVATING UTILITIES OR SERVICE LINES ARE CAUT, BROKEN OR DAMAGED, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK AND NOTIFY THE OWNER AND ENGINEER OF THE LOCATION OF THE UTILITIES OR SERVICE LINES WITHIN THE SAME TYPE OF ORIGINAL MATERIALS AND CONSTRUCTION. CONTRACTORS SHALL IMMEDIATELY STOP WORK ON ANY EXCAVATION THAT MAY AFFECT SUCH UTILITIES OR SERVICE LINES.

**CAUTION!!!**  
ATMOS GAS LINE IN AREA. CONTRACTOR  
UTILIZE TEXAS ONE CALL SYSTEM TO MARK  
ALL GAS LINES PRIOR TO EXCAVATION.

ATMOS CONTACT: JOE CABEZUELA  
PHONE: 872-455-8234

**CAUTION!!!**  
NTMWD WATERLINE IN AREA. CONTRACTOR  
TO CONTACT NTMWD LINE LOCATES AT  
469-626-4569 72 HOURS PRIOR TO WORKING IN  
NTMWD EASEMENT IN ORDER TO SCHEDULE  
A REPRESENTATIVE TO BE ON SITE.

**NTMWD LINE LOCATES: 469-626-4569**



Know what's **below**.  
• **Call** before you dig.

[illegible]

**Kimley»Horn**



KHA PROJECT: 064478708	DATE JULY 2018	SALE AS SHOWN	DESIGNED BY: DJC	DRAWN BY: DJC	CHECKED BY: DVE
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MUNICIPAL COMPLEX  
TRAIL LIGHTING






## ELECTRICAL LAYOUT



SHEET NUMBER  
E-6



MATCHLINE - SEE SHEET E-8



LEGEND	
TRAIL LIGHT (SEE FIXTURE SCHEDULE)	
TRAIL LIGHT (SEE FIXTURE SCHEDULE)	
JUNCTION BOX (16"Wx21"Lx1"D)	
1.5" RGS CONDUIT - BHDGE MOUNTED	— — — —
1.5" SCH 80 PVC CONDUIT	— — — —
LIGHTING CONTROLLER CABINET	
POWER PEDestal and LIGHTING CONTROLLER	

LIGHT FIXTURE SCHEDULE		
SYMBOL	LAMP	POLE
	CREE - ARE-EDR 2MBR-54E-JL-BK-300-DM	CREE - 10" x 5" DIAMETER BLACK DIE CAST ALUMINUM WITH POWDER COAT FINISH
	CREE - RSWM-WHT 3ME-SLAK7-UJ-GY-4N	CREE - 25" H x 6" DIAMETER BLACK DIE CAST ALUMINUM

## NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH APPLICABLE CURRENT EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES.
2. FIELD VENTILATION EXIST LOCATIONS OF ALL UNDERGROUND VENTS BEFORE BEGINNING. REPAIR ANY DAMAGE.
3. ELECTRICAL CORDING FOR LIGHTING SHALL BE 1/2 IN. PVC 1-24 IN. SCHEDULE 90, OR AS MENTIONED IN THE SPECIFICATIONS.
4. CONDUIT SHALL BE PLACED IN A TRENCH AT LEAST 24 IN. BELOW FINISHED GRADE. INSTALL A 6 IN. WIDE 4-8 IN. PLASTIC RATING AT 12 IN. ABOVE TOP OF CONDUIT.
5. SEAL ALL CONDUIT ENDS WITH LIGHTING CORDS WITH AT LEAST THREE FEET OF CONDUIT AND MOUNT APPROXIMATELY 12 IN. ABOVE TOP OF CONDUIT. DO NOT AFFECT OTHER EXIST UTILITIES OR LIGHTING CORDS OR METALS.
6. ALL ELECTRICAL WIRING SHALL BE IN CONDUIT. THE WIRING SHALL BE APPROXIMATELY 12 IN. ABOVE GRADE. PROVIDE RATED FOR A MINIMUM OF 90 VOLT. EXCEPT FOR 120 VOLT. AND OTHER ALP INDUSTRY RATED FOR A MINIMUM OF 90 VOLT.
7. INSTALL RACE AT EACH JOINTING POINT.
8. JOINTING RINGS SHALL BE POLYMER COMPOSITE CONSTRUCTION.
9. INSTALL A NEMA 3R PERMISSIBLE ELECTRIC SERVICE THAT COMPLY WITH ALL OREGON STANDARDS AND SPECIFICATIONS. ELECTRIC SERVICE TO BE PROVIDED BY OWNER.
10. ALL FIXTURES ARE REQUIRED TO OPERATE AT 240 VOLTS.
11. CREC FIXTURES SHALL BE SUPPLIED, INSTALLED AND UNDER WARRANTY BY MANUFACTURERS LIGHTING.
12. PROTECT EXISTING STRUCTURES AND CONCRETE OR OTHER PAVED PATTERNS. REPAIR ALL DAMAGE TO EXISTING UTILITIES. ANY DAMAGE SHALL BE REPAIRED AT THE ADDITIONAL COST OF THE CONTRACTOR.
13. NO LIGHTS SHALL BE INSTALLED WITHIN UTILITY EASEMENTS.
14. SURVEYING INSTRUMENTS AND EASEMENTS SHOWN ARE APPROXIMATE AND HAVE NOT BEEN SURVEYED.
15. CONTRACTOR TO STAKE THE LOCATIONS OF LIGHTS AND CORDING CONCERNED WITHIN THE PROPERTY BOUNDARIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL NECESSARY "RIGHT OF WAY" LOCATIONS TO BE LOCATED BY AND AS DIRECTED BY THE "CITY OF WYOMING AND THE COUNTY OF LINCOLN".

UTILITY NOTES:

- [illegible]

CAUTION!!!  
ATMOS GAS LINE IN AREA. CONTRACTOR TO  
UTILIZE TEXAS ONE CALL SYSTEM TO MARK  
ALL GAS LINES PRIOR TO EXCAVATION.

ATMOS CONTACT: JOE CABEZUELA  
PHONE: 972-455-8234

**CAUTION!!!**  
NTMWD WATERLINE IN AREA. CONTRACTOR  
TO CONTACT NTMWD LINE LOCATES AT  
469-626-4569 72 HOURS PRIOR TO WORKING IN  
NTMWD EASEMENT IN ORDER TO SCHEDULE  
A REPRESENTATIVE TO BE ON SITE.

**NTMWD LINE LOCATES: 469-626-4569**



Know what's **below**.  
• **Call** before you dig.

[illegible]

**Kimley»Horn**



KHA PROJECT: 064478708	DATE JULY 2018	SCALE AS SHOWN	DESIGNED BY: D.	DRAWN BY: D.	CHECKED BY: D.
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MUNICIPAL COMPLEX  
TRAIL LIGHTING



## ELECTRICAL LAYOUT

SHEET NUMBER  
E-7





LEGEND	
TRAIL LIGHT (SEE FIXTURE SCHEDULE)	
TRAIL LIGHT (SEE FIXTURE SCHEDULE)	
JUNCTION BOX (16"Wx29"Lx11"D)	
1.5" RIGS CONDUIT - BRIDGE MOUNTED	— — — —
1.5" SCH 40 PVC CONDUIT	— — — —
LIGHTING CONTROLLER CABINET	
POWER PEDESTAL AND LIGHTING CONTROLLER	

LIGHT FIXTURE SCHEDULE		
SYMBOL	LAMP	POLE
	CREE - ARE-EDR 2MB-RS-04-LJ-L-BK-360-DM	CREE - 10'-0" H x 6" DIA. METER BLACK DIE CAST ALUMINUM WITH POWDER COAT FINISH
	CREE - R5WM-WHT 3ME-0L-40K-L-OL-GY-N	CREE - 25" H x 6" DIA. METER BLACK DIE CAST ALUMINUM

### NOTES

1. ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH CURRENT STANDARD SPECIFICATIONS, MISC. NECA, LOAD REQUIREMENTS, AND THE CURRENT PLANS.
2. FIELD VERIFY EACH LOCATION OF ALL UNDERGROUND UTILITIES BEFORE DIGGING. RISES SHALL BE MARKED WITH 1" X 4" WOOD SIGN.
3. ELECTRICAL CABLE FOR LIGHTING SHALL BE 150V, 1-2IN SCHEDULE 90, AS REQUIRED BY THE UTILITY PROVIDER.
4. CONDUIT SHALL BE PLACED IN TRENCH AT LEAST 18" BELOW FINISHED GRADE. INSTALL 18" DEEP AND 18" WIDE WARNING STRIPS 15' ON EITHER SIDE OF CONDUIT.
5. SEAL ALL CONDUIT ENDS WITH LEADING ORIENTED FIBER WITH AT LEAST THREE FEET OF POLYURETHANE COMPACTION APPROVED BY THE ENGINEER THAT WILL NOT ADVERSELY AFFECT THE CONDUIT'S WEAR SURFACE.
6. PROVIDE INSULATED ELECTRICAL CONDUCTORS WITH MISC. TYPE, COLOR, OR OTHER LUMP SUM EQUIPMENT OR MATERIALS TO 150V, 1-2IN EXCEPT FIBER OR ADO 900 BARE GROUNDING E-GALV. CONDUCTORS.
7. PROVIDE BACKFILL AT EACH JUNCTION BOX.
8. JUNCTION BOXES SHALL BE POLYMER CONCRETE CONSTRUCTION.
9. INSTALL A NEW 100 AMP 208/240V ELECTRICAL SERVICE THAT COMPLIES WITH OCAIR CODE REQUIREMENTS AND SPECIFICATIONS. PROVIDE ALL MATERIALS TO BE PROVIDED BY OCAIR. CONTACT LORIANE PERDUE AT (972) 860-8516.
10. ALL UTILITIES ARE NOTED TO BE OPERATIVE AT 240V/120V.
11. FLOOR PROTECTORS SHALL BE SUPPLIED, INSTALLED AND UNDER WARRANTY BY MUGCO SPORTS LIGHTING.
12. PROTECT EXISTING STRUCTURES AND CONCRETE OR OTHER PAVED PATIOWAYS AND ADDITIONAL COSTS UNLESS OTHERWISE NOTED. ANY DAMAGE SHALL BE REPAIRED AT THE OWNER'S EXPENSE TO THE OWNER.
13. NO LIGHTS SHALL BE INSTALLED WITHIN UTILITY EASEMENTS.
14. EXISTING UTILITIES AND EASEMENTS SHOWN ARE APPROPRIATE AND HAVE NOT BEEN SURVEYED.
15. \*CONTRACTOR TO STATE THE LOCATIONS OF LIGHTS AND CONTACT CONFINEMENT TO BE LOCATED IN THE FIELD AS NECESSARY AND AS DIRECTED BY THE CITY OF WYKE AND THE UTILITY PROVIDER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, PRIOR TO EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE UTILITY OWNERS OF THE LOCATION OF THE UTILITIES PRIOR TO EXCAVATION TO EXISTING UNDERGROUND FACILITIES OR TO CONTRIBUTE TO THE SITE'S SAFETY AND AVOIDANCE OF DAMAGE TO THE UTILITIES. THE CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND FACILITIES OR ON-PAID APPURTENANCES LOCATED IN THE FIELD OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY OR COMPLETENESS OF ANY SUCH INFORMATION PROVIDED BY THE UTILITY OWNERS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING AND CHECKING ALL SUCH INFORMATION AND DATA, FOR THE ACCURACY OF THE INFORMATION, AND FOR THE ADEQUACY OF THE INFORMATION TO WORK WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES DURING EXCAVATION, AND FOR THE PROTECTION OF SUCH FACILITIES DURING EXCAVATION AND REPAIRING ANY DAMAGE THEREBY RESULTING FROM THE WORK. THE COST OF SUCH INFORMATION AND THE COST OF SUCH PROTECTION AND REPAIRS SHALL BE INCLUDED IN THE CONTRACT PRICE. THE CONTRACTOR SHALL NOTIFY ANY PARTY WHOSE UTILITIES CROSS OR ADJACENT TO THE PROJECT SITE PRIOR TO CONSTRUCTION.

THE CONTRACTOR SHALL TAKE EXTENSIVE CARE WHEN WORKING IN AREAS WHERE EXCAVATION TO GO LINES, UNDERGROUND ELECTRIC CABLE, FREE OPTIC CABLE, FIBER OPTIC CABLES AND UNDERGROUND GAS LINES ARE LOCATED. WHEN EXCAVATING UTILITIES OR SERVICE LINES OR CABLE, OPEN OR CLOSED, THE CONTRACTOR SHALL TAKE EXTENSIVE CARE TO AVOID DAMAGE TO SUCH UTILITIES OR SERVICE LINES WITH THE LATEST TYPE OF ORIGINAL MATERIALS, AND TO REPAIR SUCH DAMAGE TO THE SAME TYPE OF ORIGINAL MATERIALS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGNER OF ANY SUCH DAMAGE TO SUCH UTILITIES OR SERVICE LINES.

<p><b>CAUTION!!!</b></p> <p>ATMOS GAS LINE IN AREA. CONTRACTOR TO UTILIZE TEXAS ONE CALL SYSTEM TO MARK ALL GAS LINES PRIOR TO EXCAVATION.</p> <p>ATMOS CONTACT: JOE CABEZUELA PHONE: 972-685-6234</p>	<p><b>CAUTION!!!</b></p> <p>NTMWD WATERLINE IN AREA. CONTRACTOR TO CONTACT NTMWD LINE LOCATES AT 469-626-4569 72 HOURS PRIOR TO WORKING IN NTMWD EASEMENT IN ORDER TO SCHEDULE A REPRESENTATIVE TO BE ON SITE.</p> <p>NTMWD LINE LOCATES: 469-626-4569</p>
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Know what's **below.**  
• **Call** before you dig.

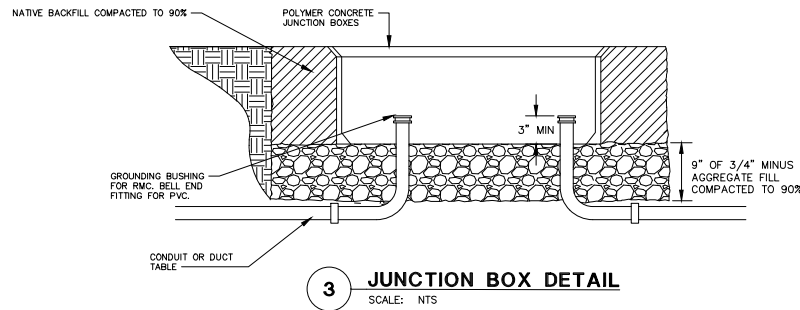
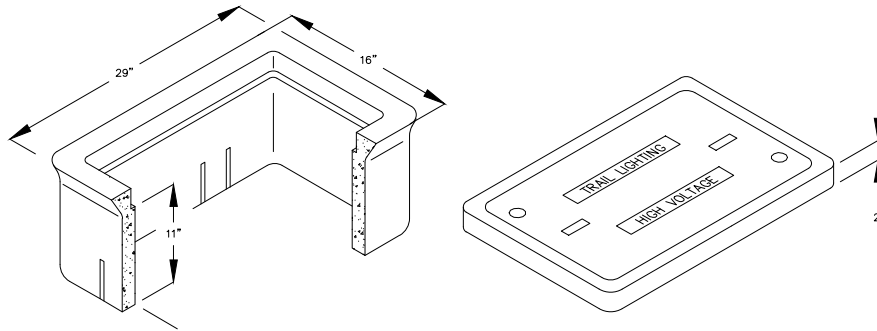
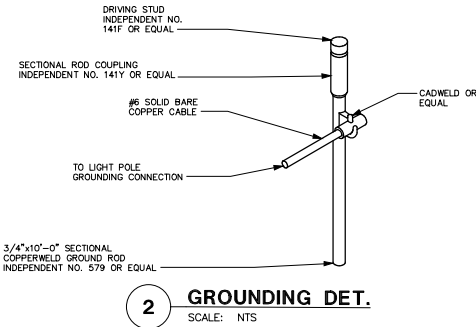
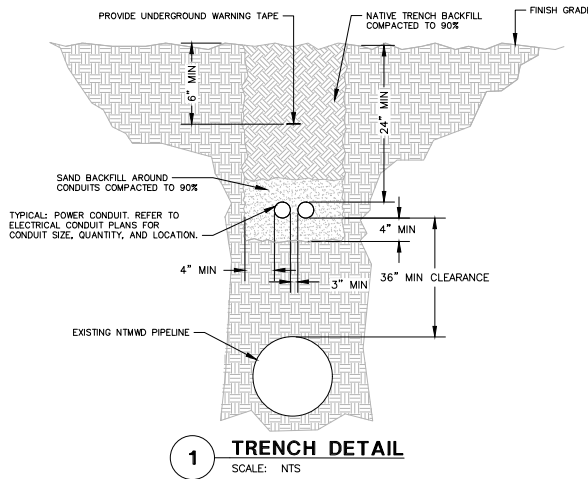


SHEET NUMBER		E-8		ELECTRICAL LAYOUT		MUNICIPAL COMPLEX TRAIL LIGHTING WYLIE, TX  PREPARED FOR CITY OF WYLIE		KIMLEY-HORN, INC. 004270700 DATE JULY 2, 2010 SCALE AS SHOWN DESIGNED BY DUC DRAWN BY DVE CHECKED BY DVE 7-26-18				<b>Kimley»Horn</b> 200 EAST DAVIS STREET, SUITE 100, MCINNEY, TX 75069 WWW.KIMLEY-HORN.COM TX 75069 © 2018 KIMLEY-HORN AND ASSOCIATES, INC.		NO. _____ REVISIONS _____ DATE _____ BY _____	
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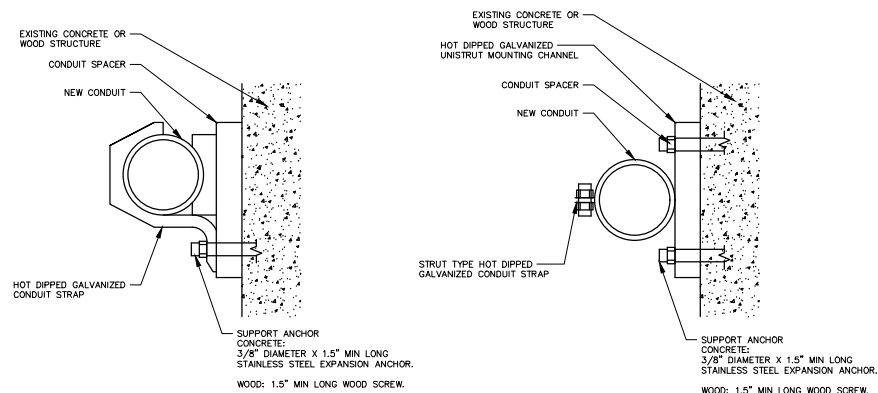
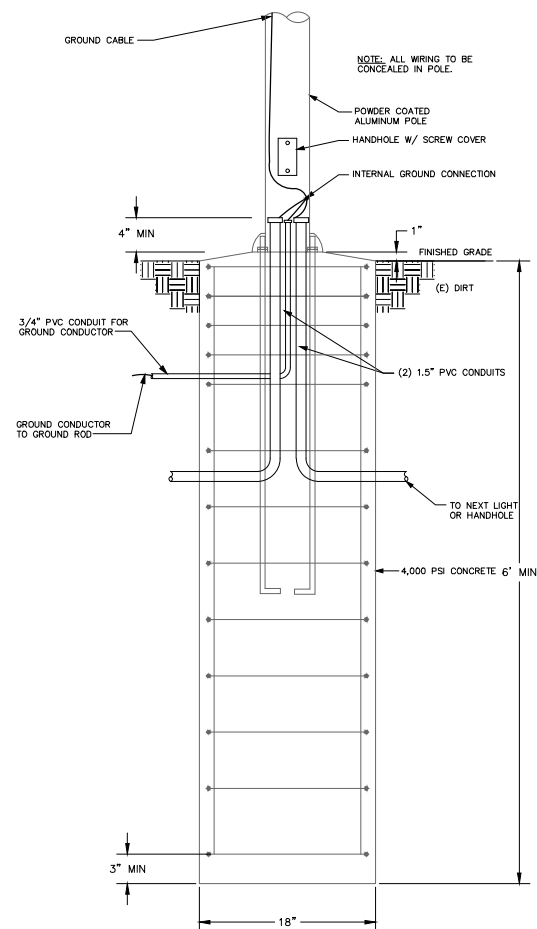
SHEET NUMBER		ED-1
ELECTRICAL DETAILS		
MUNICIPAL COMPLEX TRAIL LIGHTING		
WYLLIE, TX		
PREPARED FOR		
CITY OF WYLLIE		
KHA PROJECT:		
DRAWING		
DATE		
JULY 2018		
SCALE:		
AS SHOWN		
DESIGNED BY:		
DUC		
DRAWN BY:		
DUC		
CHECKED BY:		
DUC		
7-26-18		
KIMLEY-HORN & ASSOCIATES, INC.		
280 LAST DAVIS STREET, SUITE 100, MOOREHEAD, TX 75866		
WWW.KIMLEY-HORN.COM		
© 2018 KIMLEY-HORN AND ASSOCIATES, INC.		
REVISIONS		
DATE		
BY		

INSTALLATION NOTES:

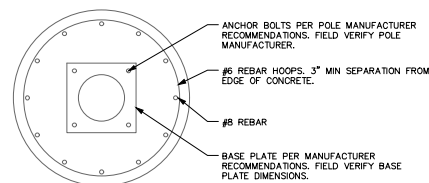
- EXISTING CONCRETE OR OTHER PAVED PATHWAY
- 2' PERP OFFSET
- NEW POLE AND FOUNDATION
- NEW CONDUIT INSTALLED PARALLEL TO PATHWAY

- INSTALLATION NOTES:**
1. CENTER OF FOUNDATION AND LIGHT POLE SHALL BE OFFSET 2' PERPENDICULAR FROM THE EXISTING EDGE OF THE PATHWAY.
  2. UNLESS OTHERWISE NOTED ON THE PLANS SPACING BETWEEN LIGHTS SHALL BE MEASURED ALONG THE EDGE OF PATHWAY AS INDICATED ON THE CONDUIT SCHEDULE.

SCALE: NTS



SCALE: NTS



SCALE: NTS



Know what's **below**.  
Call before you dig.

[illegible]





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SUMMARY OF ILLUMINATION CONDUIT/CONDUCTOR (PROPOSED)							
CIRCUIT	CONDUIT RUN		1.5" PVC (SCH 80) BRED LENGTH (LF)	1.5" PVC (SCH 80) TRENCHED LENGTH (LF)	1.5" RGS BRIDGE MOUNTED LENGTH (LF)	PROPOSED CONDUCTOR COUNT/USE	GROUND
	FROM	TO					
-	1EE					BY SERVICE PROVIDER	BY SERVICE PROVIDER
ES-W-0	1EE					BY SERVICE PROVIDER	BY SERVICE PROVIDER
ES-W-A	JB-01	ARY CONTROLLER	136		385	240	#0
ES-W-A	JB-01	LP-W01A	357			240	#0
ES-W-A	LP-W01B	LP-W02A	492		101	240	240
ES-W-A	LP-W02A	LP-W02B				240	#0
ES-W-A	LP-W02B	LP-W03A	95			240	#0
ES-W-A	LP-W03A	LP-W03B	95			240	#0
ES-W-A	LP-W03B	LP-W04A	255			240	#0
ES-W-A	LP-W04A	LP-W04B	251			240	#0
ES-W-A	LP-W04B	LP-W05A	236			240	#0
ES-W-A	LP-W05A	LP-W05B	295			240	#0
ES-W-A	LP-W05B	LP-W06A	85			240	#0
ES-W-A	LP-W06A	LP-W06B	88			240	#0
ES-W-A	LP-W06B	LP-W07A	85			240	#0
ES-W-A	LP-W07A	LP-W07B	88			240	#0
ES-W-A	LP-W07B	LP-W08A	88			240	#0
ES-W-A	LP-W08A	LP-W08B	90			240	#0
ES-W-A	LP-W08B	LP-W09A	297			240	#0
ES-W-A	LP-W09A	LP-W09B	95			240	#0
ES-W-A	LP-W09B	LP-W10A	75			240	#0
ES-W-A	LP-W10A	LP-W10B	86			240	#0
ES-W-A	LP-W10B	LP-W11A	100			240	#0
ES-W-A	LP-W11A	LP-W11B	98			240	#0
ES-W-A	LP-W11B	LP-W12A	87			240	#0
ES-W-A	LP-W12A	LP-W12B	83			240	#0
ES-W-A	LP-W12B	LP-W13A	92			240	#0
ES-W-A	LP-W13A	LP-W13B	97			240	#0
ES-W-A	LP-W13B	LP-W14A	89			240	#0
ES-W-A	LP-W14A	LP-W14B	87			240	#0
ES-W-A	LP-W14B	LP-W15A	20			240	#0
ES-W-A	LP-W15A	LP-W15B	82			240	#0
ES-W-A	LP-W15B	JB-03	22			240	#0
ES-W-A	JB-03	LP-W16A	345			240	#0
ES-W-A	LP-W16A	LP-W16B	338			240	#0
ES-W-A	LP-W16B	LP-W17A	322			240	#0
ES-W-A	LP-W17A	LP-W17B	325			240	#0
ES-W-A	LP-W17B	LP-W18A	248			240	#0
ES-W-A	LP-W18A	LP-W18B	79			240	#0
ES-W-A	JB-03	LP-W19B	224			240	#0
ES-W-A	LP-W19B	LP-W19A	232			240	#0
ES-W-A	LP-W19A	LP-W20B	294			240	#0
ES-W-A	LP-W20B	LP-W20A	295			240	#0
ES-A	JB-04	LP-E01A	165			240	#0
ES-A	JB-04	LP-E01B	100		102	240	240
ES-A	LP-E01B	LP-E02A				240	#0
ES-A	LP-E02A	LP-E02B			85	240	#0
ES-A	LP-E02B	LP-E03A	79			240	#0
ES-A	LP-E03A	LP-E03B	17		109	240	#0
ES-A	LP-E03B	JB-03	25		171	240	#0
ES-A	JB-03	LP-E04A				240	#0
ES-A	LP-E04A	LP-E04B	42			240	#0
ES-A	LP-E04B	LP-E05A	79			240	#0
ES-A	LP-E05A	LP-E05B	82			240	#0
ES-A	LP-E05B	LP-E06A	98			240	#0
ES-A	LP-E06A	LP-E06B	98			240	#0
ES-A	LP-E06B	LP-E07A	106			240	#0
ES-A	LP-E07A	LP-E07B	314			240	#0
ES-A	LP-E07B	LP-E08A	91			240	#0
ES-A	LP-E08A	LP-E08B	97			240	#0
ES-A	LP-E08B	LP-E09A	95			240	#0
ES-A	LP-E09A	LP-E09B	95			240	#0
ES-A	LP-E09B	LP-E10A	14		71	240	#0
ES-A	LP-E10A	LP-E10B	19		25	240	#0
ES-A	LP-E10B	LP-E11A			68	240	#0
ES-A	LP-E11A	LP-E11B			93	240	#0
ES-A	LP-E11B	LP-E12A				240	#0
ES-A	LP-E12A	LP-E12B				240	#0
ES-A	LP-E12B	LP-E13A			95	240	#0
ES-A	LP-E13A	LP-E13B			100	240	#0
ES-A	LP-E13B	LP-E14A			95	240	#0
ES-A	LP-E14A	LP-E14B			100	240	#0
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ES-A	LP-E17A	LP-E17B			93	240	#0
ES-A	LP-E17B	LP-E18A			100	240	#0
ES-A	LP-E18A	LP-E18B			217	240	#0
ES-A	JB-03	LP-E18A			360	240	240
ES-A	JB-03	LP-E18B			307	240	240
ES-A	LP-E18B	LP-E20A			316	240	#0
ES-A	LP-E20A	LP-E20B			292	240	240
ES-A	LP-E20B	LP-E21A			248	240	#0

ELECTRICAL SERVICE DETAILS											
Elec. Service No.	Electrical Service Description	Service Conductor Size	Service Conductor No./Size	Safety Switch	Main Ckt. Brk. Pole/Amp	Two-Pole Conductor Amps	Panel/ Loadcenter Amp Rating	Circuit No.	Branch Ckt. Brk. Pole/Amp	Branch Circuit Amps	Panel VA Load
ES-W	120/240V-60A ALUMINUM PEDESTAL MOUNT	2"	3/84	N/A	2P/60	30	100	A - TRAIL LIGHTS B - TRAIL LIGHTS C - LANDSCAPE LIGHTING D - CONTACTOR CONTROL	2P/20 2P/20 1P/15 1P/15	4.5 4.5 1.0	1080 1080 120
ES-E	120/240V-60A ALUMINUM PEDESTAL MOUNT	2"	3/84	N/A	2P/60	30	100	A - TRAIL LIGHTS B - TRAIL LIGHTS C - CONTACTOR CONTROL	2P/20 2P/20 1P/15	4.5 4.5	1080 1080



SHEET NUMBER <b>ED-33</b>	ELECTRICAL TABLES	MUNICIPAL COMPLEX TRAIL LIGHTING WYLLIE, TX	KIMA PROJECT: 50079208 000000 JUL 17 2018 SCALE: AS SHOWN DESIGNED BY: [blank] DRAWN BY: [blank] CHECKED BY: [blank]	 7-26-18	 200 EAST DAVEN STREET, SUITE 100, MCINNEY, TX 75089 PHONE: 469-937-5500 WWW.KH-USA.COM © 2018 KIMLEY-HORN AND ASSOCIATES, INC.	NO	REVISIONS	DATE	BY



# Cree Edge™ Series

LED Area Luminaire – Round

## Product Description

The Cree Edge™ Series has a slim, low profile design. Its rugged cast aluminum housing minimizes wind load requirements and features an integral, weatherlight LED driver compartment, spun vented cover, high performance aluminum heat sinks and leaf/debris guard.

**Applications:** Auto Dealerships, parking lots, campuses, facade lighting and general site lighting applications

## Performance Summary

Patented NanoOptic® Product Technology
Made in the U.S.A. or U.S. and imported parts
<b>CRI:</b> Minimum 70 CRI
<b>CCT:</b> 4000K (+/- 300K), 5700K (+/- 500K) standard
<b>Limited Warranty:</b> 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

1 See <http://lighting.cree.com/warranty> for warranty terms

## Accessories

Field-Installed	
Bird Spikes XA-BRDSPK	Backlight Control Shields XA-ZBL5-4 - Four-pack - Unpainted stainless steel

## Ordering Information

Example: ARE-EDR-2M-R3-12-E-UL-SV-350

ARE-EDR	Product	Optic	Mounting*	LED Count (x10)	Series	Voltage	Color Options	Drive Current	Options
ARE-EDR	2M Type II Medium w/Partial BLS	3MP Type III Medium w/Partial BLS	R3 Spider, Center Tenon, 2-3/8" to 3" OD	04** 06** 08** 10 12	E	UL Universal 120-277V UH Universal 347-480V	BK Black BZ Bronze SV Silver WH White	350mA 525mA 525mA 700mA 700mA	DIM 0-10V Dimming - Control by others - Refer to <a href="#">Dimming spec sheet</a> for details - Can't exceed specified drive current F Fuse - When code dictates fusing, use time delay fuse - Available with UL voltage only - Available for U.S. applications only HL Hi/Low (Dual Circuit Input) - Refer to <a href="#">HL spec sheet</a> for details - Sensor not included P Photocell - Available with UL voltage only 40K 4000K Color Temperature - Minimum 70 CRI - Color temperature per luminaire

\* Reference EPA and pole configuration suitability data beginning on page 14.

\*\* Consists of multiple 20 LED light bars. 40, 60, and 80 LED units use blanks as needed in place of populated light bars  
NOTE: Price adder may apply depending on configuration



US: [lighting.cree.com](http://lighting.cree.com)

T (800) 236-6800 F (262) 504-5415

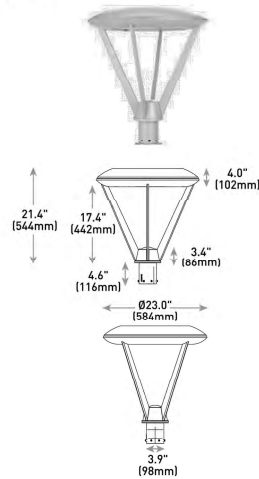
Rev. Date: V5 12/07/2017

Canada: [www.cree.com/canada](http://www.cree.com/canada)



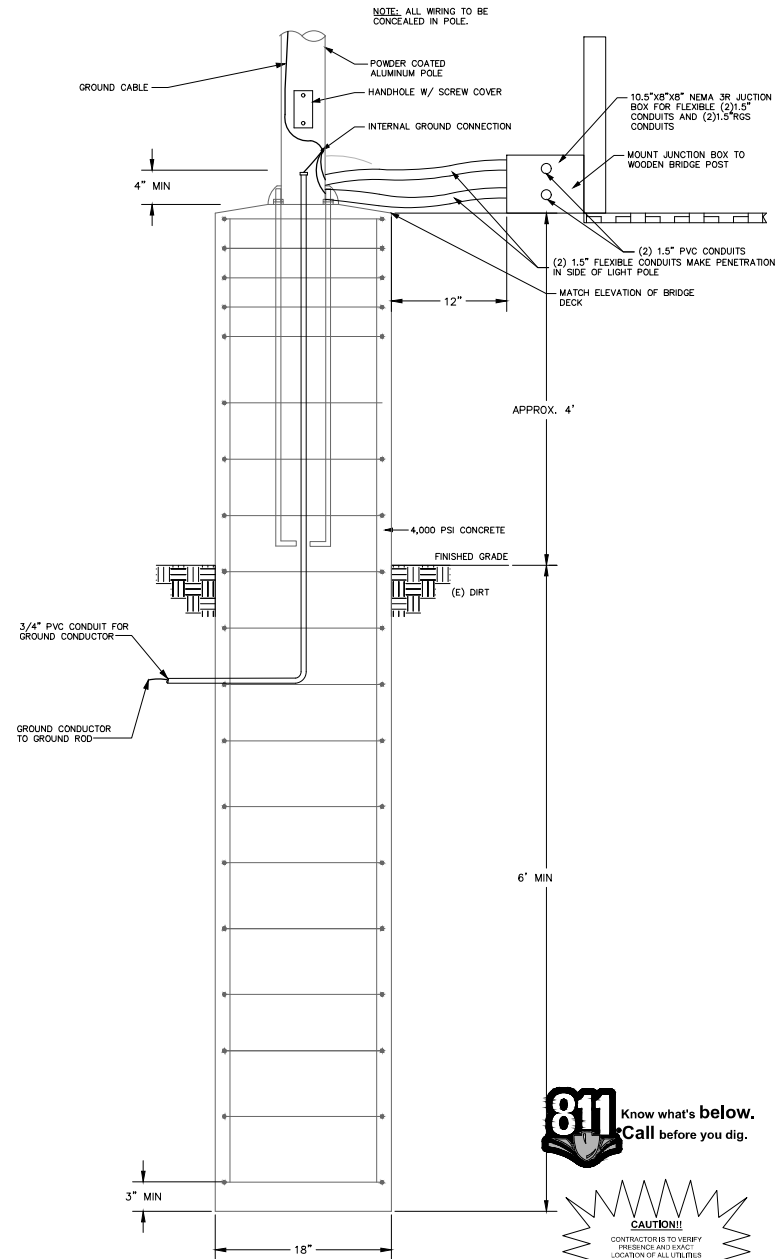
T (800) 473-1234 F (800) 890-7507

## R3 Mount



LED Count (x10)	Weight
04	33.8 lbs. (15.3kg)
06	35.2 lbs. (15.9kg)
08	37.0 lbs. (16.8kg)
10	40.7 lbs. (18.5kg)
12	42.4 lbs. (19.3kg)

R4/R5 Mount - see page 14 for weight & dimensions



## 1 BRIDGE DECK POLE FOUNDATION

SCALE: NTS



Know what's below.  
Call before you dig.



**Kimley-Horn**  
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KHA PROJECT: 00000000  
DATE: JULY 2018  
SCALE: AS SHOWN  
DESIGNED BY: DJC  
DRAWN BY: DJC  
CHECKED BY: DJC

MUNICIPAL COMPLEX  
TRAIL LIGHTING  
WYLLIE, TX  
PREPARED FOR:  
CITY OF WYLLIE

ELECTRICAL  
DETAILS

SHEET NUMBER  
ED-4



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## RSW Series

RSW™ LED Street Luminaire – Medium

### Product Description

The Cree® RSW Series, utilizing WaveMax® Technology, will transform the way utilities and municipalities light their residential streets, interchanges, and expressways. With the first viable LED streetlight at warm CCT, the RSW Series delivers up to 124 LPW, enhanced visual comfort with reduced glare and high color contrast leading to improved overall illumination using less energy. The RSW Series provides warm, inviting dark sky friendly lighting that makes good economic sense.

**Applications:** Roadway

### Performance Summary

Utilizes Cree WaveMax® Technology

Assembled in the U.S.A. of U.S. and imported parts

**Efficacy:** Up to 124 LPW

**CRI:** Minimum 70 CRI (3000K, 4000K & 5000K); 80 CRI (2700K, 3000K, 4000K & 5000K)

**CCT:** 2700K, 3000K, 4000K, 5000K

**Limited Warranty:** 10 years

\* See <http://lighting.cree.com/warranty> for warranty terms

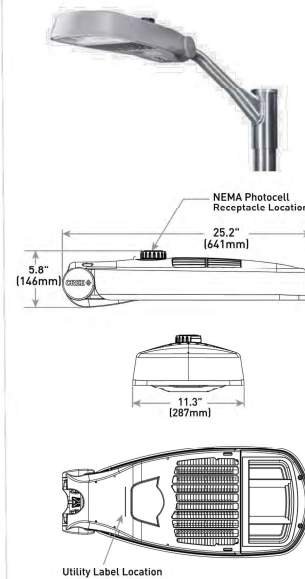
### Accessories

#### Field-Installed

**Backlight Control Shield**  
RSW-BLSM

- Provides 1 mounting height cutoff

**Bird Guard**  
RSW-BRDGRDM



#### Weight\*

13.8 lbs (6.3kg)

\*RSW-BLSM Accessory: add 0.4 lbs. (0.2kg)

### Ordering Information

Example: RSWM-A-HT-2ME-9L-27K8-UL-GY-N

RSWM	A	HT		9L		UL	GY	N	
Product	Version	Mounting	Optic	Lumen Package**	CCT/CRI	Voltage	Color Options	Utility Label/Receptacle	Options
RSWM Medium	A	HT Horizontal Tenon	2LG* Type II Long 2ME* Type II Medium 3ME* Type III Medium	9L 9,325 Lumens	27K8 2700K, 80 CRI 30K7 3000K, 70 CRI 30K8 3000K, 80 CRI 40K7 4000K, 70CRI 40K8 4000K, 80 CRI 50K7 5000K, 70CRI 50K8 5000K, 80CRI	UL Universal 120-277V	GY Grey	N Utility Label and NEMA® 7-Pin Photocell Receptacle - External wattage label per ANSI C136.15 - 7 pin receptacle per ANSI C136.41 - Factory connected 0-10V dim leads - Photocell and shorting cap by others	08/07/06/05/04/03/02/01 Field Adjustable Lumen Output - Must select Q8, Q7, Q6, Q5, Q4, Q3, Q2, or Q1 - Offers full range lumen adjustability - Includes wattage label for setting selected - Refer to pages 5 & 6 for power and lumen values X7/X6/X5/X4/X3/X2/X1 Locked Lumen Output - Must select X7, X6, X5, X4, X3, X2, or X1 - Lumen output is permanently locked to the setting selected - Includes wattage label for setting selected - Refer to pages 5 & 6 for power and lumen values

\* Available with Backlight Shield when ordered with field-installed accessory (see table above)

\*\* Lumen Package codes identify approximate light output only. Actual lumen output levels vary depending on CCT and optic selection. Refer to Initial Delivered Lumen tables for specific lumen values

Rev. Date: V3 12/22/2017



US: [lighting.cree.com](http://lighting.cree.com)



T (800) 236-6800 F (262) 504-5415

Canada: [www.cree.com/canada](http://www.cree.com/canada)



T (800) 473-1234 F (800) 890-7507



Know what's below.  
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