FCD10R-LED / COB Recessed Inground – INSTALLATION INSTRUCTIONS

CAUTION: BEFORE CONNECTING THE LUMINAIRE TO A POWER SUPPLY, MAKE SURE THE POWER IS SWITCHED OFF.

FC OUTDOOR LIGHTING

t 800.900.1730
3609 Swenson Ave.
St. Charles, IL 60174

J-BOX RECOMMENDATION: NEMA 6P Rated Box to be provided by others.

GENERAL:

1. Luminaire must be installed by licensed electrician.

2. All electrical connections must be in accordance with local codes, ordinances, or the National Electrical Code.

3. Before starting the installation, make sure all electricity has been turned off and electrical breaker has been locked out and tagged out.

4. To ensure the success of the installation, be sure to read these instructions and review the diagrams thoroughly before beginning.

NOTE: The important safeguards and instructions appearing in this manual are not meant to cover all possible conditions and situations that may occur.

INSTALLATION INSTRUCTIONS:

1) Prior to install, remove the luminaire from the well housing by firmly pressing upwards on the luminaire.

2) Determine whether the luminaire is to be daisy-chained or standalone. Remove the knockouts on the well housing as needed. **FIGURE 1 and 2.**

3) Install 1-1/2" Conduit adapters (by others) to the well housing prior to burial.

4) Make sure proper drainage is arranged to avoid accumulation of water. French Drain recommended for clay-type soil. If installed upon a concrete pad, a drainage pipe must be added. **FIGURE 3.**
   a. **NOTE:** IF DIGGING INTO EXISTING CONSTRUCTION, CLEAR AT LEAST A 15" DIAMETER HOLE.
   b. The well housing has four stake-holes around its perimeter. Use ground stakes or concrete screws (by others) as necessary.

DETAILED ILLUSTRATION

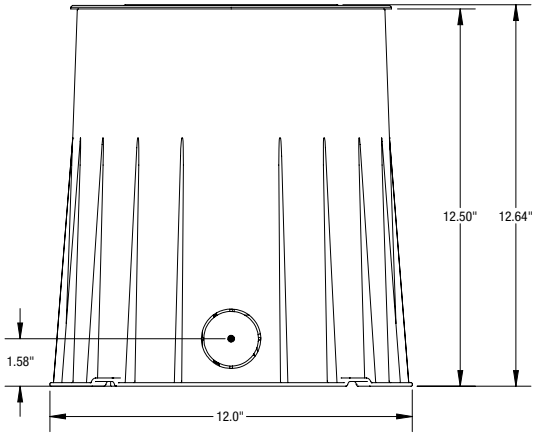

FIG-1

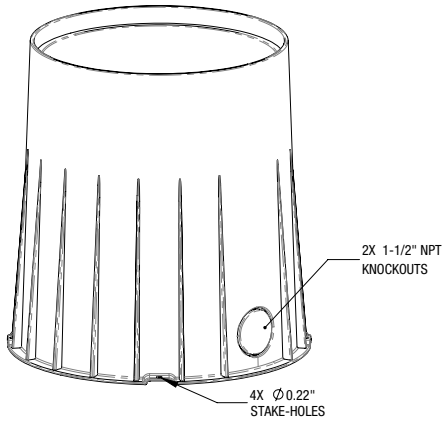

FIG-2

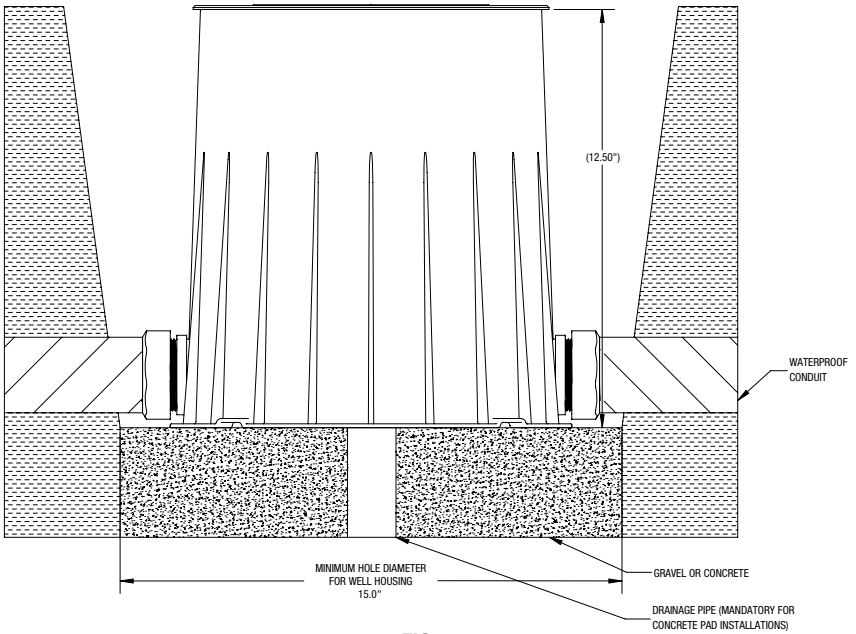

FIG-3

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FCD10R-LED / COB Recessed Inground – INSTALLATION INSTRUCTIONS

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OUTDOOR LIGHTING

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3609 Swenson Ave.
St. Charles, IL 60174

J-BOX RECOMMENDATION: NEMA 6P Rated Box to be provided by others.

GENERAL:

1. Luminaire must be installed by licensed electrician.

2. All electrical connections must be in accordance with local codes, ordinances, or the National Electrical Code

3. Before starting the installation, make sure all electricity has been turned off and electrical breaker has been locked out and tagged out.

4. To ensure the success of the installation, be sure to read these instructions and review the diagrams thoroughly before beginning.

NOTE: The important safeguards and instructions appearing in this manual are not meant to cover all possible conditions and situations that may occur.

INSTALLATION INSTRUCTIONS:

5) Reference **FIGURE 4** (below) for improper grade filling guidelines.

6) Reference **FIGURE 5 and 6** (to the right) for proper grade filling guidelines.
   a. **WARNING:** IMPROPER INSTALL WILL RESULT IN VOIDED WARRANTY.

DETAILED ILLUSTRATION

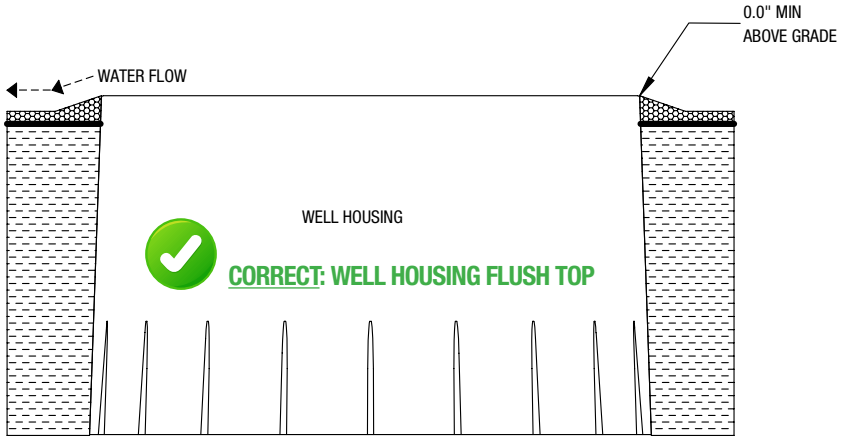

FIG-5

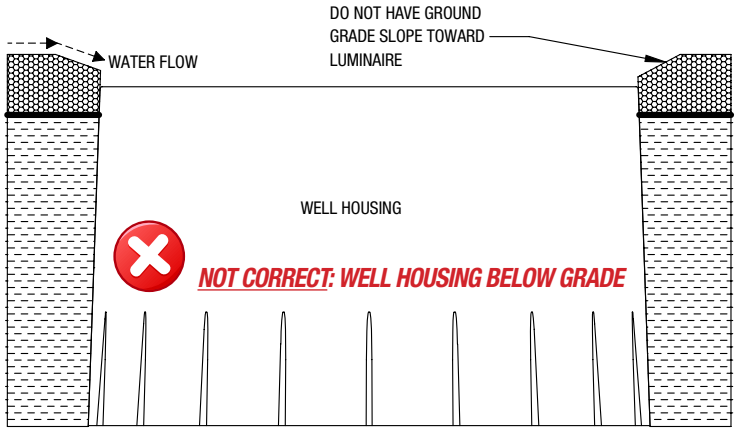

FIG-4

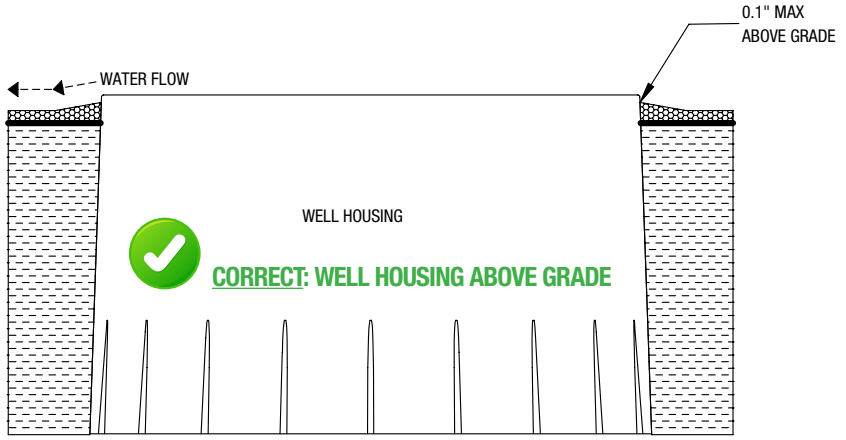

FIG-6

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3. Before starting the installation, make sure all electricity has been turned off and electrical breaker has been locked out and tagged out.

4. To ensure the success of the installation, be sure to read these instructions and review the diagrams thoroughly before beginning.

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INSTALLATION INSTRUCTIONS:

7) When finalizing installation location of well housing, use the gimbal-alignment slots to aim the direction of the gimbal. **FIGURE 7 and 8.**

8) To aim, draw an imaginary line between the two slots. The gimbal will point perpendicular to this line. **FIGURE 7 and 8.**

CAUTION: This step must be observed regardless of whether the gimbal is used or not.

WARNING: Failure to follow this step can result in loose luminaires during install.

DETAILED ILLUSTRATION

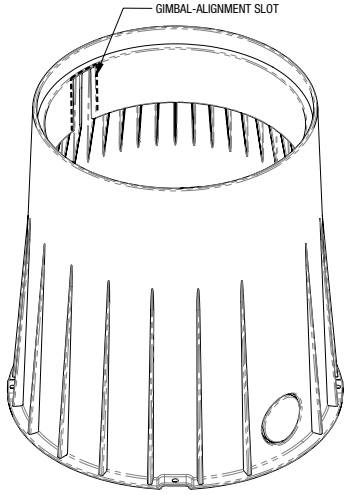

FIG-8

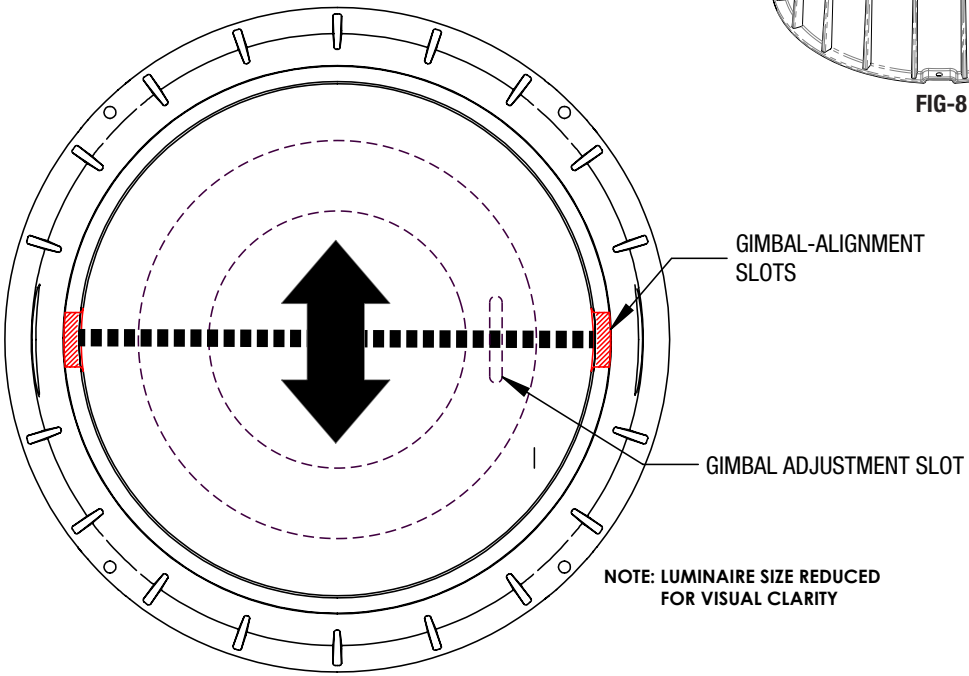

FIG-7

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FCD10R-LED / COB Recessed Inground – INSTALLATION INSTRUCTIONS

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3609 Swenson Ave.
St. Charles, IL 60174

J-BOX RECOMMENDATION: NEMA 6P Rated Box to be provided by others.

GENERAL:

1. Luminaire must be installed by licensed electrician.

2. All electrical connections must be in accordance with local codes, ordinances, or the National Electrical Code.

3. Before starting the installation, make sure all electricity has been turned off and electrical breaker has been locked out and tagged out.

4. To ensure the success of the installation, be sure to read these instructions and review the diagrams thoroughly before beginning.

NOTE: The important safeguards and instructions appearing in this manual are not meant to cover all possible conditions and situations that may occur.

INSTALLATION INSTRUCTIONS:

9) Locate the wiring box and remove the top cover using a 1/8" hex tool to gain access to the wiring compartment. **FIGURE 9.**
   a. **WARNING:** GASKET IN TOP COVER MAY COME LOOSE DURING REMOVAL. DO NOT MISPLACE GASKET.

10) Remove the two watertight strain reliefs from the box.

11) Remove one of the plugs from the box using a 1" wrench.
   a. **NOTE:** IF DAISY-CHAINING LUMINAIRES, REMOVE BOTH PLUGS.

12) Replace the missing plug(s) with the watertight strain relief. Tighten the wrenching flat to 40 IN-LBS. **FIGURE 10.**

DETAILED ILLUSTRATION

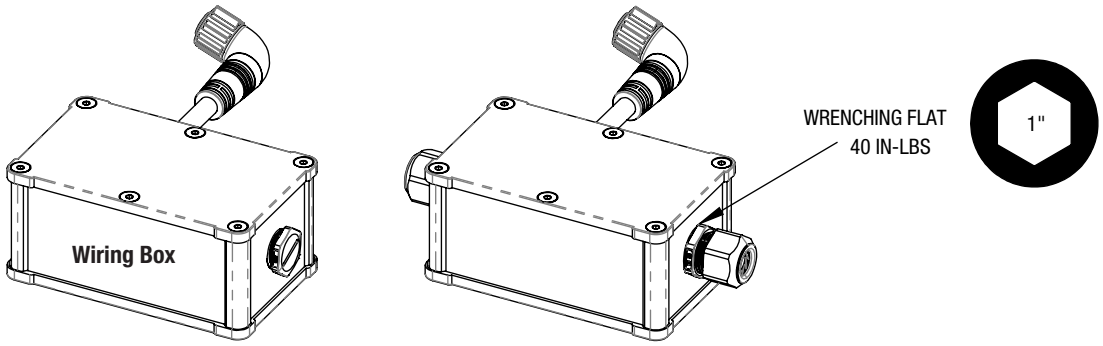

FIG-9

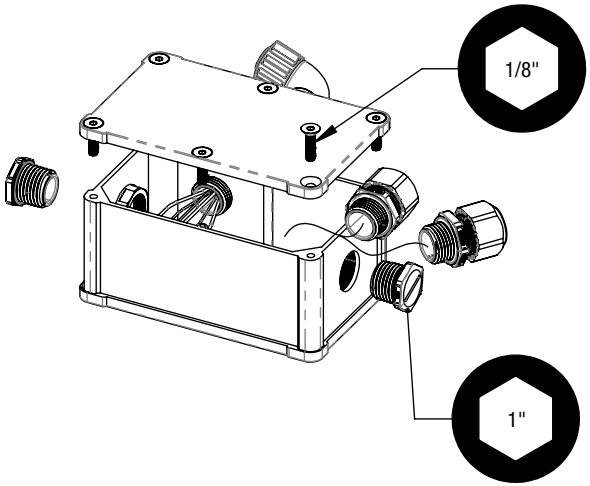

FIG-10

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2. All electrical connections must be in accordance with local codes, ordinances, or the National Electrical Code.

3. Before starting the installation, make sure all electricity has been turned off and electrical breaker has been locked out and tagged out.

4. To ensure the success of the installation, be sure to read these instructions and review the diagrams thoroughly before beginning.

NOTE: The important safeguards and instructions appearing in this manual are not meant to cover all possible conditions and situations that may occur.

INSTALLATION INSTRUCTIONS:

13) Place the wiring box within the well housing, with the power cable facing outward. Feed the incoming and outgoing cables into the strain reliefs. Tighten the strain relief sealing nut to 55 IN-LBS. **FIGURE 11 and 12.**
    a. **NOTE:** POWER CABLE AVAILABLE SEPARATELY.

14) Using the provided silicone wire nuts, follow the wiring diagram. **FIGURE 13 and 14.**
    White – Neutral
    Black – Line
    Green – Ground
    Purple – Dim+*
    Pink – Dim-*
    *Only used in 0-10V dimming applications. If luminaire is using ELV dimming, terminate both leads using silicone wire nuts.

15) Seal the wiring box by replacing the top lid and tighten sealing screws to 20 IN-LBS per screw. **FIGURE 12.**

DETAILED ILLUSTRATION

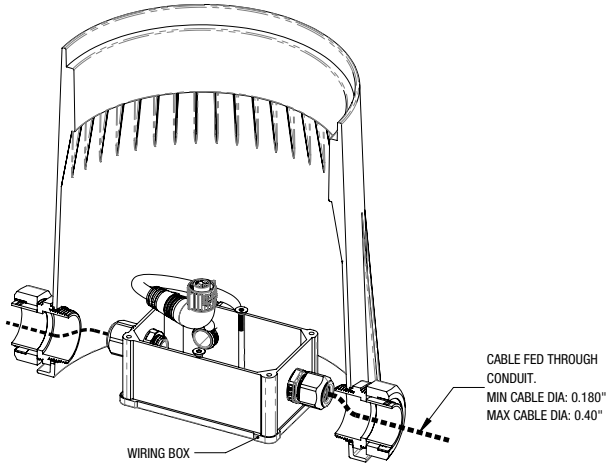

FIG-11

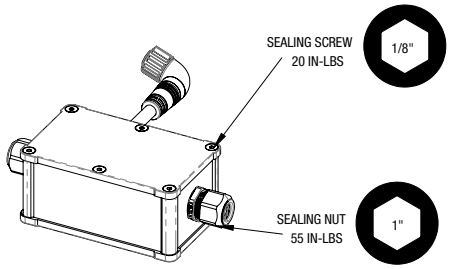

FIG-12

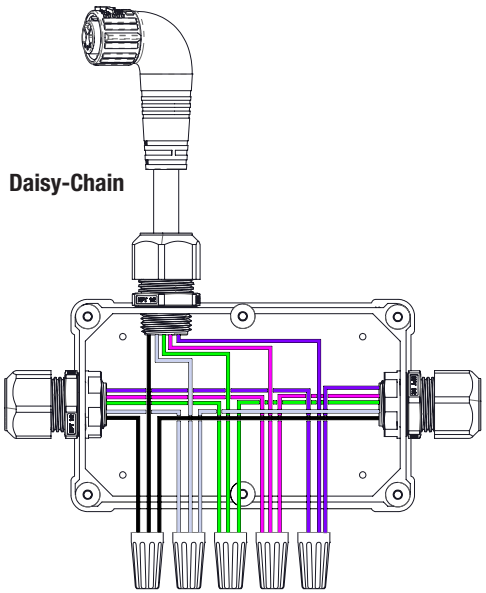

FIG-13

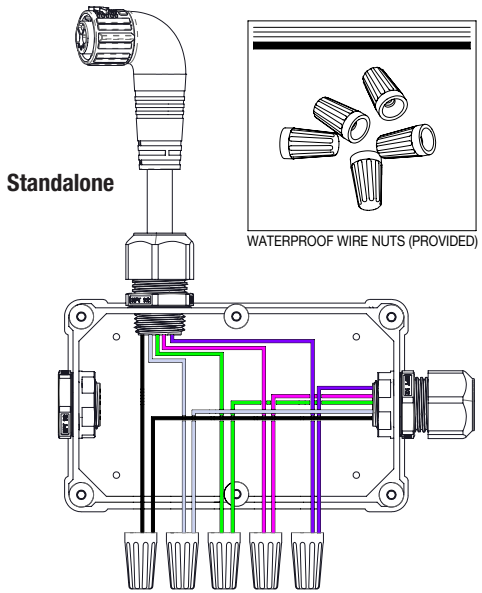

FIG-14

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FC OUTDOOR LIGHTING

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J-BOX RECOMMENDATION: NEMA 6P Rated Box to be provided by others.

GENERAL:

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2. All electrical connections must be in accordance with local codes, ordinances, or the National Electrical Code.

3. Before starting the installation, make sure all electricity has been turned off and electrical breaker has been locked out and tagged out.

4. To ensure the success of the installation, be sure to read these instructions and review the diagrams thoroughly before beginning.

NOTE: The important safeguards and instructions appearing in this manual are not meant to cover all possible conditions and situations that may occur.

INSTALLATION INSTRUCTIONS:

16) Place the wiring box within the well housing, with the power cable facing outward. Feed the incoming and outgoing cables into the strain reliefs. Tighten the strain relief sealing nut to 55 IN-LBS. **FIGURE 15 and 16.**
    a. **NOTE:** POWER CABLE AVAILABLE SEPERATELY.

17) Using the provided silicone wire nuts, follow the wiring diagram. **FIGURE 17 and 18.**
    White – Neutral
    Black – Line
    Green – Ground
    Brown – Line (Luminaire)
    Blue – Neutral (Luminaire)
    Purple – Dim+*
    Pink – Dim-*
    *Only used in 0-10V dimming applications. If luminaire is using ELV dimming, terminate both leads using silicone wire nuts.

18) Seal the wiring box by replacing the top lid and tighten sealing screws to 20 IN-LBS per screw. **FIGURE 16.**

DETAILED ILLUSTRATION

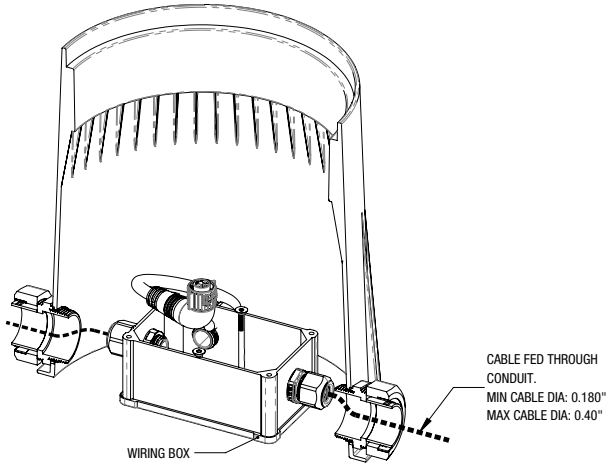


FIG-15

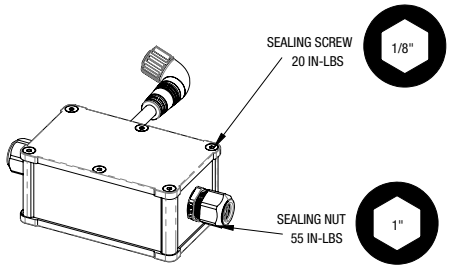


FIG-16

Daisy-Chain & Surge Protector

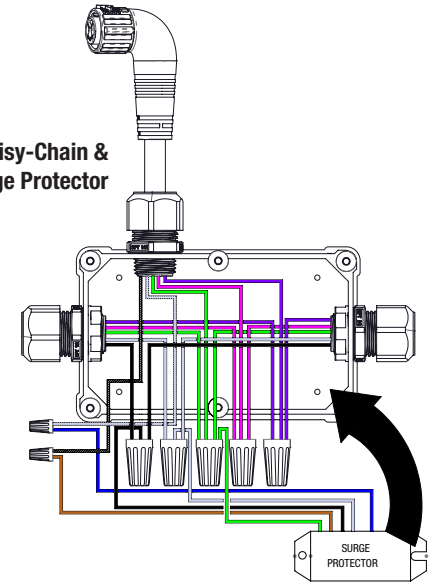
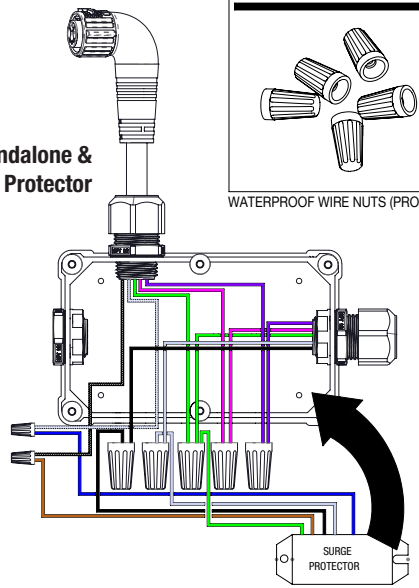
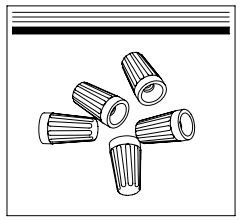


FIG-17

Standalone & Surge Protector





WATERPROOF WIRE NUTS (PROVIDED)

FIG-18

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FCD10R-LED / COB Recessed Inground – INSTALLATION INSTRUCTIONS

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J-BOX RECOMMENDATION: NEMA 6P Rated Box to be provided by others.

GENERAL:

1. Luminaire must be installed by licensed electrician.

2. All electrical connections must be in accordance with local codes, ordinances, or the National Electrical Code.

3. Before starting the installation, make sure all electricity has been turned off and electrical breaker has been locked out and tagged out.

4. To ensure the success of the installation, be sure to read these instructions and review the diagrams thoroughly before beginning.

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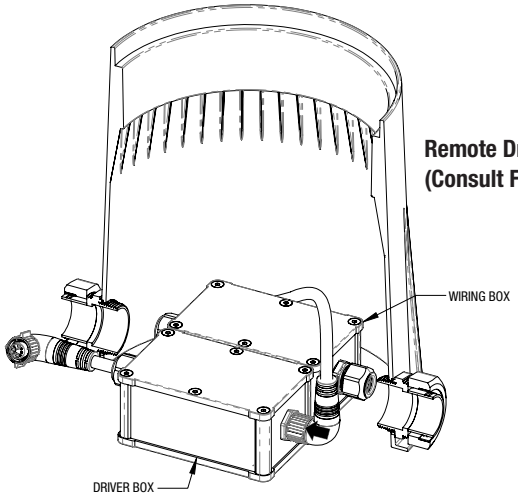
INSTALLATION INSTRUCTIONS:

19) If the luminaire came with a Driver Box, place the Driver Box inside the well housing alongside the Wiring Box. Connect the Wiring Box directly to the Driver Box as seen in the diagram. **FIGURE 19.**

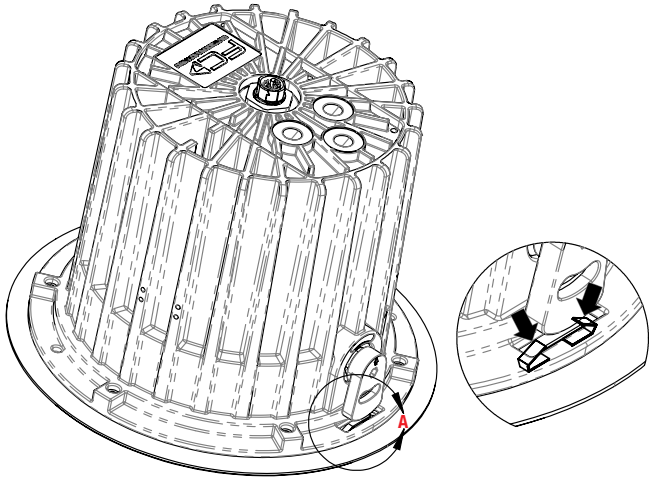
20) Locate the loose luminaire and check the underside for the cosmetic plug. Firmly press down on the two protruding tabs to release it. **FIGURE 20.**
    a. **NOTE:** STEPS 20 THROUGH 22 CAN BE SKIPPED IF INSTALLER DOES NOT WISH TO ADJUST THE BEAM DIRECTION.

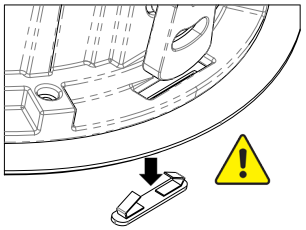
DETAILED ILLUSTRATION



Remote Driver Configuration (Consult Factory)

FIG-19





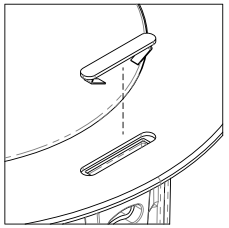


FIG-20

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4. To ensure the success of the installation, be sure to read these instructions and review the diagrams thoroughly before beginning.

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INSTALLATION INSTRUCTIONS:

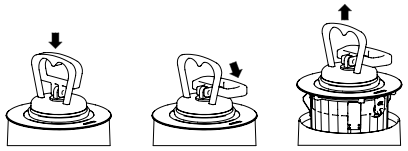
21) The beam direction can be adjusted from 0 to 20 degrees in either direction by adjusting the gimbal with a small screwdriver. **FIGURE 21 and 22.**

22) The cosmetic plug can be reattached at this point, but it is recommended to wait post-install for fine tuning.

23) Connect the luminaire to the circuit as seen in **FIGURE 23 and 24.** Connect the power cable to the luminaire.
    a. **WARNING:** IF USING REMOTE DRIVER LUMINAIRE, DO NOT PLUG WIRING BOX DIRECTLY INTO LUMINAIRE. WARRANTY WILL BE VOIDED. MUST CONNECT WIRING BOX TO DRIVER BOX AND THEN DRIVER BOX TO LUMINAIRE.

24) Firmly press down on luminaire to install into well housing. Make any gimbal adjustments as necessary. If cosmetic plug is still missing, reinstall it.

NOTE: Use the **FCD10R-SUCTION** suction cup tool (part number: **FCD10R-SUCTION**) to remove the luminaire when you need access to the wiring. You can find this tool in the accessories ordering guide on the spec sheet. **See Below.**



DETAILED ILLUSTRATION

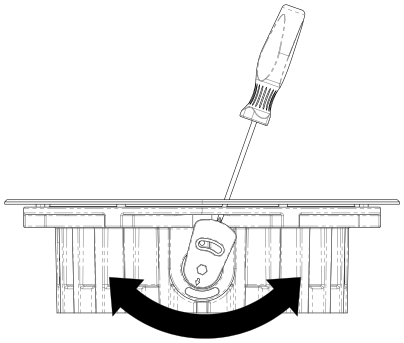


FIG-21

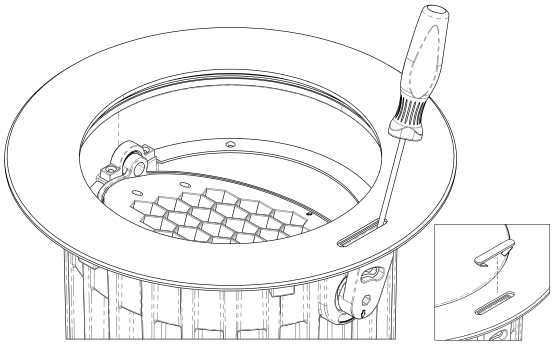


FIG-22

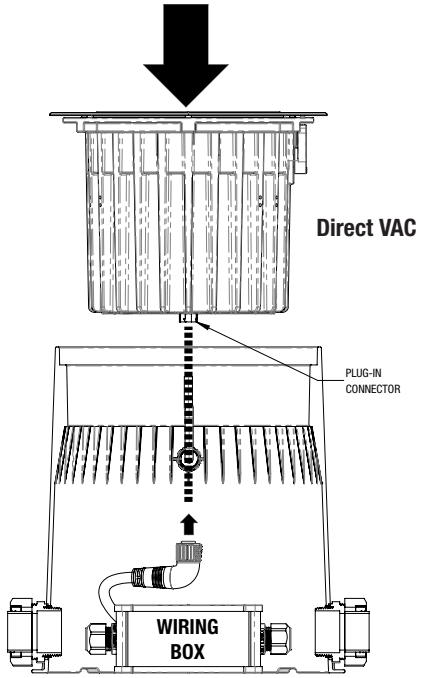


FIG-23

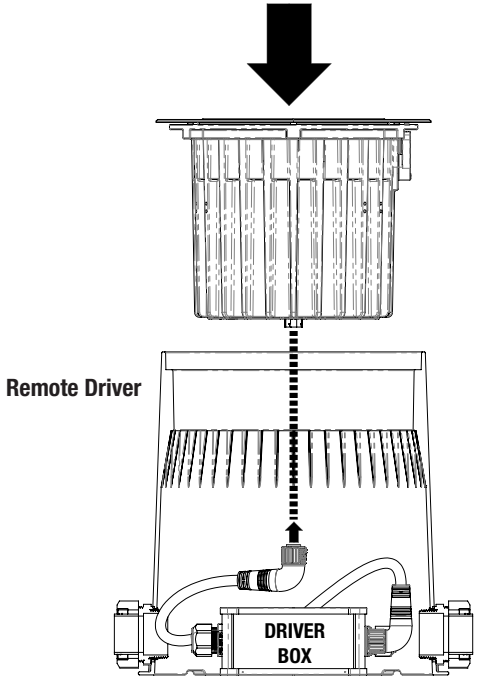


FIG-24

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t 800.900.1730
3609 Swenson Ave.
St. Charles, IL 60174

J-BOX RECOMMENDATION: NEMA 6P Rated Box to be provided by others.

GENERAL:

1. Luminaire must be installed by licensed electrician.

2. All electrical connections must be in accordance with local codes, ordinances, or the National Electrical Code.

3. Before starting the installation, make sure all electricity has been turned off and electrical breaker has been locked out and tagged out.

4. To ensure the success of the installation, be sure to read these instructions and review the diagrams thoroughly before beginning.

NOTE: The important safeguards and instructions appearing in this manual are not meant to cover all possible conditions and situations that may occur.

DRIVE OVER APPLICATION INSTALLATION INSTRUCTIONS:

WARNING: THIS INSTALLATION IS REQUIRED FOR DRIVE-OVER APPLICATIONS. GROUND MUST BE ABLE TO SUPPORT 5000KG / 11,000 LBS OF WEIGHT.

25) Prior to install, remove the luminaire from the well housing by firmly pressing upwards on the luminaire.

26) Determine whether the luminaire is to be daisy-chained or standalone. Remove the knockouts on the well housing as needed. **FIGURE 25 and 26.**

27) Install 1-1/2" Conduit adapters (by others) to the well housing prior to the concrete pour.
    a. **NOTE:** Drainage pipe is mandatory for this application. Failure to install proper drainage will result in voided warranty.

28) Affix the well housing through the four holes located around the perimeter as necessary (Concrete Anchors by others).

29) Prior to pouring concrete, install the well housing cover to protect the interior from debris and spillage. **FIGURE 27.**

NOTE: WELL HOUSING MUST NOT PROTRUDE OR BE BELOW GRADE.

DETAILED ILLUSTRATION

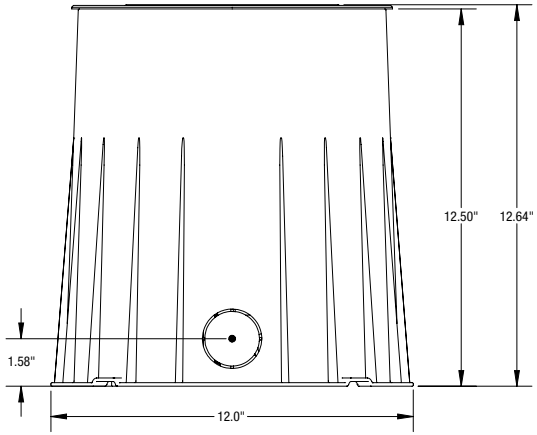

FIG-25

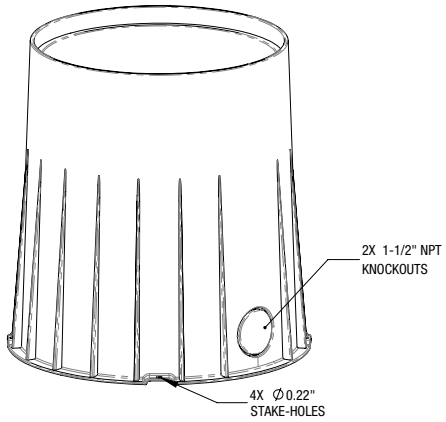

FIG-26

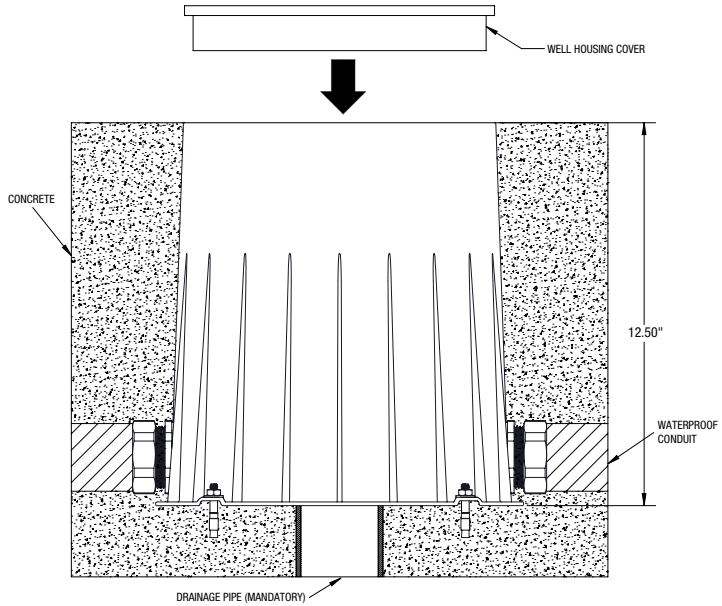

FIG-27

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