

ELECTRICAL LIGHTING

INSTALLATION DETAILS

A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VW	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS EXCLUDED FROM CONFIDENTIAL INFORMATION UNDER THE CONTRACT. USE OF THE INFORMATION AND/OR ITS CLIENTS' USE OF THE INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES NV AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS COVER PAGE						
 						
SCALE	CLIENT NUMBER	DRAWN BY				
		FV				
PROJECT NUMBER	TECHNIP ENERGIES NUMBER	REVISION				
078051C	078051C-000-STD-1683-0001-1	A				

A	B	C	D	E	F	G	H	J	K
DRAWING INDEX									
	DRAWING NUMBER	REVISION	DESCRIPTION			DETAIL NUMBER			
1	078051C-000-STD-1683-0001-1	A	COVER PAGE			-			
	078051C-000-STD-1683-0001-2	A	DRAWING INDEX NOTES			-			
	078051C-000-STD-1683-0001-3	A	NOTES			-			
	078051C-000-STD-1683-0001-4	A	LEGEND AND SYMBOLS			-			
	078051C-000-STD-1683-0001-5	A	HANDRAIL MOUNTED STANCHION LIGHT FOR HAZARDOUS AREA CLASSIFICATION "L01"			L01A/B/C			
	078051C-000-STD-1683-0001-6	A	LINEAR HANDRAIL MOUNTED STANCHION LIGHT FOR HAZARDOUS AREA CLASSIFICATION "L02"			L02A/B/C			
	078051C-000-STD-1683-0001-7	A	STANCHION TELESCOPING POLE LIGHT FOR HAZARDOUS AREA CLASSIFICATION "L03"			L03A/B/C			
	078051C-000-STD-1683-0001-8	A	LINEAR STANCHION TELESCOPING POLE LIGHT FOR HAZARDOUS AREA CLASSIFICATION "L04"			L04A/B/C			
	078051C-000-STD-1683-0001-9	A	STANCHION ON POLE WITH CONCRETE FOUNDATION FOR HAZARDOUS AREA CLASSIFICATION "L05"			L05A/B/C/D/E/F			
	078051C-000-STD-1683-0001-10	A	PENDANT MOUNTED L. FIXTURE ON STEEL STRUCTURE / CONCRETE FOR HAZARDOUS AREA CLASSIFICATION "L06"			L06A/B/C/D/E/F/G/H/I			
	078051C-000-STD-1683-0001-11	A	CEILING MOUNTED L. FIXTURE ON STEEL STRUCTURE / CONCRETE FOR HAZARDOUS AREA CLASSIFICATION "L07"			L07A/B/C/D/E/F/G/H/I			
	078051C-000-STD-1683-0001-12	A	WALL MOUNTED L. FIXTURE ON STEEL STRUCTURE / CONCRETE FOR HAZARDOUS AREA CLASSIFICATION "L08"			L08A/B/C/D/E/F/G/H/I			
	078051C-000-STD-1683-0001-13	A	FLOODLIGHT MOUNTED ON STEEL STRUCTURE / CONCRETE FOR HAZARDOUS AREA CLASSIFICATION "L09"			L09A/B/C/D/E/F/G/H/I			
	078051C-000-STD-1683-0001-14	A	FLOODLIGHT MOUNTED ON HANDRAIL FOR HAZARDOUS AREA CLASSIFICATION "L10"			L10A/B/C			
	078051C-000-STD-1683-0001-15	A	FLOODLIGHT MOUNTED ON STEEL BEAM FOR HAZARDOUS AREA CLASSIFICATION "L11"			L11A/B/C			
	078051C-000-STD-1683-0001-16	A	FLOODLIGHT MOUNTED ON CONCRETE COLUMN FOR HAZARDOUS AREA CLASSIFICATION "L12"			L12A/B/C			
	078051C-000-STD-1683-0001-17	A	STEEL POLE MOUNTED FLOODLIGHT -FOR HAZARDOUS AREA CLASSIFICATION "L13"			L13A/B/C			
	078051C-000-STD-1683-0001-18	A	FLOODLIGHT MOUNTED ON HIGH MAST TYPE FOR HAZARDOUS AREA CLASSIFICATION "L14"			L14A/B/C			
	078051C-000-STD-1683-0001-19	A	FLOODLIGHT MOUNTED ON HIGHT MAST TYPE – 2 FIXTURES FOR HAZARDOUS AREA CLASSIFICATION "L15"			L15A/B/C			
	078051C-000-STD-1683-0001-20	A	TUMBLER SWITCH WALL MOUNTED FOR HAZARDOUS AREA CLASSIFICATION "L16"			L16			
	078051C-000-STD-1683-0001-21	A	SWITCH / CONVENIENCE SOCKET FLUSH MOUNTED FOR NON-HAZARDOUS AREA CLASSIFICATION "L17"			L17A/B			
	078051C-000-STD-1683-0001-22	A	LED EXIT LIGHTING FLUSH MOUNTED FOR HAZARDOUS AREA CLASSIFICATION "L18"			L18			
	078051C-000-STD-1683-0001-23	A	LED EXIT LIGHTING CEILING MOUNTED FOR HAZARDOUS AREA CLASSIFICATION "L19"			L19			
	078051C-000-STD-1683-0001-24	A	LINEAR BRACKET MOUNTED TYPE ON STEEL STRUCTURE / CONCRETE FOR HAZARDOUS AREA CLASSIFICATION "L20"			L20A/B/C/D/E/F/G/H/I			
	078051C-000-STD-1683-0001-25	A	LED STREET LIGHTING ON POLE MOUNTED FOR HAZARDOUS AREA CLASSIFICATION "L21"			L21			
	078051C-000-STD-1683-0001-26	A	PHOTOCELL SWITCH FOR HAZARDOUS AREA CLASSIFICATION "L22"			L22			
	078051C-000-STD-1683-0001-27	A	GFCI RECEPTACLE HANDRAIL MOUNTED FOR HAZARDOUS AREA CLASSIFICATION "L23"			L23			
	078051C-000-STD-1683-0001-28	A	GFCI RECEPTACLE ON STEEL COLUMN FOR HAZARDOUS AREA CLASSIFICATION "L24"			L24A/B			
	078051C-000-STD-1683-0001-29	A	LINEAR PENDANT MOUNTED L. FIXTURE ON STEEL STRUCTURE / CONCRETE FOR HAZARDOUS AREA CLASSIFICATION "L25"			L25A/B/C/D/E/F			
	078051C-000-STD-1683-0001-30	A	LINEAR LIGHTING IN FALSE CEILING FOR HAZARDOUS AREA CLASSIFICATION "L26"			L26A/B/C			
	078051C-000-STD-1683-0001-31	A	WALL PACK L. FIXTURE MOUNTED ON CONCRETE FOR HAZARDOUS AREA CLASSIFICATION "L27"			L27			
	078051C-000-STD-1683-0001-32	A	HANDRAIL MOUNTED STANCHION LIGHT FOR NON-HAZARDOUS AREA CLASSIFICATION "L28"			L28A/B/C			
	078051C-000-STD-1683-0001-33	A	LINEAR HANDRAIL MOUNTED STANCHION LIGHT FOR NON-HAZARDOUS AREA CLASSIFICATION "L29"			L29A/B/C			
	078051C-000-STD-1683-0001-34	A	STANCHION TELESCOPING POLE LIGHT FOR NON-HAZARDOUS AREA CLASSIFICATION "L30"			L30A/B/C			
	078051C-000-STD-1683-0001-35	A	LINEAR STANCHION TELESCOPING POLE LIGHT FOR NON-HAZARDOUS AREA CLASSIFICATION "L31"			L31A/B/C			
	078051C-000-STD-1683-0001-36	A	STANCHION ON POLE WITH CONCRETE FOUNDATION FOR NON-HAZARDOUS AREA CLASSIFICATION "L32"			L32A/B/C/D/E/F			
	078051C-000-STD-1683-0001-37	A	PENDANT MOUNTED L. FIXTURE ON STEEL STRUCTURE / CONCRETE FOR NON-HAZARDOUS AREA CLASSIFICATION "L33"			L33A/B/C/D/E/F/G/H/I			
	078051C-000-STD-1683-0001-38	A	CEILING MOUNTED L. FIXTURE ON STEEL STRUCTURE / CONCRETE FOR NON-HAZARDOUS AREA CLASSIFICATION "L34"			L34A/B/C/D/E/F/G/H/I			
	078051C-000-STD-1683-0001-39	A	WALL MOUNTED L. FIXTURE ON STEEL STRUCTURE / CONCRETE FOR NON-HAZARDOUS AREA CLASSIFICATION "L35"			L35A/B/C/D/E/F/G/H/I			
	078051C-000-STD-1683-0001-40	A	FLOODLIGHT MOUNTED ON STEEL STRUCTURE / CONCRETE FOR NON-HAZARDOUS AREA CLASSIFICATION "L36"			L36A/B/C/D/E/F/G/H/I			
	078051C-000-STD-1683-0001-41	A	FLOODLIGHT MOUNTED ON HANDRAIL FOR NON-HAZARDOUS AREA CLASSIFICATION "L37"			L37A/B/C			
	078051C-000-STD-1683-0001-42	A	FLOODLIGHT MOUNTED ON STEEL BEAM FOR NON-HAZARDOUS AREA CLASSIFICATION "L38"			L38A/B/C			
	078051C-000-STD-1683-0001-43	A	FLOODLIGHT MOUNTED ON CONCRETE COLUMN FOR NON-HAZARDOUS AREA CLASSIFICATION "L39"			L39A/B/C			
	078051C-000-STD-1683-0001-44	A	STEEL POLE MOUNTED FLOODLIGHT FOR NON-HAZARDOUS AREA CLASSIFICATION "L40"			L40A/B/C			
	078051C-000-STD-1683-0001-45	A	FLOODLIGHT MOUNTED ON HIGH MAST TYPE FOR NON-HAZARDOUS AREA CLASSIFICATION "L41"			L41A/B/C			
	078051C-000-STD-1683-0001-46	A	FLOODLIGHT MOUNTED ON HIGHT MAST TYPE- 2 FIXTURES FOR NON-HAZARDOUS AREA CLASSIFICATION "L42"			L42A/B/C			
	078051C-000-STD-1683-0001-47	A	WALL PACK L. FIXTURE MOUNTED ON CONCRETE FOR NON-HAZARDOUS AREA CLASSIFICATION "L43"			L43			
	078051C-000-STD-1683-0001-48	A	SAFETY SHOWER INSTALLATION DETAIL "L44"			L44			
	078051C-000-STD-1683-0001-49	A	LED EXIT LIGHTING FLUSH MOUNTED FOR NON-HAZARDOUS AREA CLASSIFICATION "L45"			L45			
	078051C-000-STD-1683-0001-50	A	LED EXIT LIGHTING CEILING MOUNTED FOR NON-HAZARDOUS AREA CLASSIFICATION "L46"			L46			
	078051C-000-STD-1683-0001-51	A	LINEAR BRACKET MOUNTED TYPE ON STEEL STRUCTURE / CONCRETE FOR NON-HAZARDOUS AREA CLASSIFICATION "L47"			L47A/B/C/D/E/F/G/H/I			
	078051C-000-STD-1683-0001-52	A	LED STREET LIGHTING ON POLE MOUNTED FOR NON-HAZARDOUS AREA CLASSIFICATION "L48"			L48			
	078051C-000-STD-1683-0001-53	A	PHOTOCELL SWITCH FOR NON-HAZARDOUS AREA CLASSIFICATION "L49"			L49			
	078051C-000-STD-1683-0001-54	A	GFCI RECEPTACLE HANDRAIL MOUNTED FOR NON-HAZARDOUS AREA CLASSIFICATION "L50"			L50			
	078051C-000-STD-1683-0001-55	A	GFCI RECEPTACLE ON STEEL COLUMN FOR NON-HAZARDOUS AREA CLASSIFICATION "L51"			L51A/B			
	078051C-000-STD-1683-0001-56	A	LINEAR PENDANT MOUNTED L. FIXTURE ON STEEL STRUCTURE / CONCRETE FOR NON-HAZARDOUS AREA CLASSIFICATION "L52"			L52A/B/C/D/E/F			
	078051C-000-STD-1683-0001-57	A	LINEAR LIGHTING IN FALSE CEILING FOR NON-HAZARDOUS AREA CLASSIFICATION "L53"			L53A/B/C			
	078051C-000-STD-1683-0001-58	A	AWL AIRCRAFT WARNING LIGHT SCHEME "L54"			L54A/B/C/D/E/F/G/H/I/J			
	078051C-000-STD-1683-0001-59	A	AIRCRAFT OBSTRUCTION FLASHING RED BACON FOR HAZARDOUS AREA CLASSIFICATION (HAC) AND NON-HAC "L55"			L55A/B			
	078051C-000-STD-1683-0001-60	A	AIRCRAFT OBSTRUCTION LIGHT-RED HANDRAIL MOUNT FOR HAZARDOUS AREA CLASSIFICATION (HAC) AND NON-HAC "L56"						

A	B	C	D	E	F	G	H	J	K																																																																																																														
	NOTES			NOTES (CONTINUE)			NOTES (CONTINUE)																																																																																																																
1	<p>1. ALL ELECTRICAL INSTALLATIONS SHALL BE INSTALLED IN A PROFESSIONAL MANNER IN ACCORDANCE WITH ELECTRICAL SPECIFICATION, NFPA 70 EDITION, LOCAL CODES, REGULATIONS, AND PER APPLICABLE DRAWINGS AND DETAILS.</p> <p>2. FIXTURES LOCATION SHALL ALLOW SAFE AND CONVENIENT MAINTENANCE. WHERE PERSONNEL CAN NOT BE TIED OFF IN ACCORDANCE TO PLANT POLICY FOR THE MAINTENANCE OF HANDRAIL MOUNTED LIGHT FIXTURE, HANDRAIL MOUNTED LIGHT FIXTURE SHALL BE MOUNTED ON BREAKDOWN TYPE POLES, SUCH AS SWIVEL OR TELESCOPIC TYPE.</p> <p>3. CONDUIT SHALL BE ROUTED TO AVOID INTERFERENCE WITH MECHANICAL EQUIPMENT/PIPING. CONDUIT DROPS SHALL BE ROUTED AS CLOSE AS POSSIBLE TO SUPPORT STEEL TO KEEP AREAS OF PERSONNEL EGRESS OPEN. CONDUIT SHALL BE ROUTED AT A MINIMUM HEIGHT OF 7'-0" ABOVE GRADE UNLESS IN A CONFINED AREA. CONDUIT SHALL BE ROUTED AT A MINIMUM OF 12" AWAY FROM HOT SURFACES OR HOT PIPES. WHEN ROUTED BEHIND LADDER STEPS, A MINIMUM OF 7" SHALL BE KEPT FROM EDGE OF CONDUIT TO LADDER STEP.</p> <p>4. MINIMUM SIZE OF ABOVE GROUND RIGID GALVANIZED CONDUIT SHALL BE 3/4" AND MINIMUM SIZE FOR FLEXIBLE CONDUIT SHALL BE 3/4", 3 FT (0.91 M) MAXIMUM LENGTH.</p> <p>5. ALL BRANCH CIRCUITS AND FEEDERS SHALL BE COLOR CODED EITHER BY NATURAL WIRE COLOR OR BY APPLYING TAPE AT BOTH ENDS AND AT THE SPLICING POINTS.</p> <p>120V BRANCH CIRCUITS PHASE A- BLACK PHASE B- RED PHASE C- BLUE NEUTRAL- WHITE GROUND - GREEN</p> <p>277V BRANCH CIRCUITS PHASE A- BROWN PHASE B- ORANGE PHASE C- YELLOW NEUTRAL- GRAY GROUND - GREEN</p> <p>6. RIGID METAL CONDUIT STRAIGHT RUNS SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING THE DISTANCE BETWEEN SUPPORTS AS PER N.E.C. TABLE 344.30(B) SHOWN BELOW.</p> <table border="1"> <thead> <tr> <th>CONDUIT SIZE (TRADE SIZE)</th><th>MAXIMUM DISTANCE BETWEEN SUPPORTS FT (METERS)</th><th>CONDUIT SIZE (TRADE SIZE)</th><th>MAXIMUM DISTANCE BETWEEN SUPPORTS FT (METERS)</th></tr> </thead> <tbody> <tr> <td>1/2"-3/4"</td><td>10 (3.0)</td><td>1 1/4"-1 1/2"</td><td>14 (4.3)</td></tr> <tr> <td>1"</td><td>12 (3.7)</td><td>2"-2 1/2"</td><td>16 (4.9)</td></tr> <tr> <td>3" AND LARGER</td><td>20 (6.1)</td><td></td><td></td></tr> </tbody> </table>	CONDUIT SIZE (TRADE SIZE)	MAXIMUM DISTANCE BETWEEN SUPPORTS FT (METERS)	CONDUIT SIZE (TRADE SIZE)	MAXIMUM DISTANCE BETWEEN SUPPORTS FT (METERS)	1/2"-3/4"	10 (3.0)	1 1/4"-1 1/2"	14 (4.3)	1"	12 (3.7)	2"-2 1/2"	16 (4.9)	3" AND LARGER	20 (6.1)			<p>24. LIGHTING PANELS SHALL BE INSTALLED ON BUILDING WALLS OR COLUMNS WITH THE TOP OF THE ENCLOSURE NOT TO EXCEED 70" (1.8 M) FROM GRADE OR FINISHED FLOOR.</p> <p>25. ALL FIXTURE ELEVATIONS SHOWN ON DRAWINGS ARE ACTUAL DISTANCES FROM BOTTOM OF FIXTURE (BOF) TO GRADE, FLOOR OR PLATFORM. BOTTOM OF FIXTURE ELEVATION FOR PROCESS AREA GRADE LIGHTING SHALL BE A MINIMUM 7'-0" (2.1 M). LOCATIONS MAY BE VARIED SLIGHTLY TO AVOID PIPING OR STRUCTURAL INTERFERENCES.</p> <p>26. LIGHTING CIRCUITS SHALL BE ROUTED IN A SEPARATE CONDUIT SYSTEM FROM RECEPTACLE CIRCUITS. AN EQUIPMENT GROUND CONDUCTOR SHALL BE ROUTED IN BOTH CONDUIT SYSTEMS.</p> <p>27. FIELD TO INSTALL CIRCUIT DIRECTORIES INSIDE ALL BREAKER PANELS TO MATCH PANEL LOADING.</p> <p>28. CONDUIT ROUTED BEHIND LADDERS SHALL BE INSTALLED IN SUCH A MANNER THAT WILL NOT CAUSE A FALSE OR INSECURE STEP. NO CONDUIT SHALL BE PLACED WITHIN 7" (178 MM) OF BACK OF LADDER.</p> <p>29. HEAD CLEARANCES: FOR ACCESS/EGRESS AND PROCESS UNIT AISLE WAYS AND PLATFORMS FOR PERSONNEL MOVEMENT SHALL BE A MINIMUM OF 7'-0" (2.1 M). FOR AREAS UNDER PIPE RACKS OR PROCESS ISLES REQUIRING VEHICLE ACCESS SHALL BE MINIMUM OF 12'-0" (3.66 M).</p> <p>30. AT ALL OUTDOOR LOCATIONS, CONDUIT SHALL ENTER EQUIPMENT FROM THE BOTTOM OR SIDES. TOP ENTRY IS NOT PERMITTED.</p>																																																																																																					
CONDUIT SIZE (TRADE SIZE)	MAXIMUM DISTANCE BETWEEN SUPPORTS FT (METERS)	CONDUIT SIZE (TRADE SIZE)	MAXIMUM DISTANCE BETWEEN SUPPORTS FT (METERS)																																																																																																																				
1/2"-3/4"	10 (3.0)	1 1/4"-1 1/2"	14 (4.3)																																																																																																																				
1"	12 (3.7)	2"-2 1/2"	16 (4.9)																																																																																																																				
3" AND LARGER	20 (6.1)																																																																																																																						
2																																																																																																																							
3	<p>7. INSTALL DRAIN FITTING IN LOW POINT OF EACH CONDUIT RUN. SLOPE HORIZONTAL CONDUITS AND FLEXIBLE CONDUITS DOWNWARD IN DIRECTION OF THE LOW POINT DRAIN. USE DRAIN FITTINGS APPROVED FOR THAT AREA CLASSIFICATION.</p> <p>8. LONG, STRAIGHT CONDUIT RUNS SHALL HAVE EXPANSION FITTINGS INSTALLED AT MAXIMUM INTERVALS OF 100 FT (30 M) EXPANSION FITTINGS SHALL HAVE BONDING JUMPERS (IF REQUIRED BY MANUFACTURER).</p> <p>9. CONDUIT THREADS SHALL BE COATED WITH THREAD LUBRICANT BEFORE BEING MADE UP WRENCH TIGHT.</p> <p>10. ALL UNUSED OPENINGS IN FITTINGS, BOXES, ETC., SHALL BE PLUGGED WITH A CONDUIT PLUG. DURING CONSTRUCTION, ALL OPENINGS SHALL BE KEPT CLOSED TO PREVENT MOISTURE OR ANY FOREIGN MATERIAL, SUCH AS DIRT AND DEBRIS FROM ENTERING THE CONDUIT SYSTEM.</p> <p>11. ALL FIELD DRILLED HOLES, CUT EDGES AND WELDED AREAS OF GALVANIZED SURFACES SHALL BE TOUCHED UP WITH ZINC RICH EPOXY.</p> <p>12. MINIMUM CONDUIT BENDING RADIUS FOR CONDUITS 3/4" TO 3" IN SIZE SHALL BE 6 TIMES THE TRADE SIZE OF THE CONDUIT OR AS NOTED.</p> <p>13. CONDUIT FITTINGS IN UNCLASSIFIED AND CLASS 1, DIV. 2 AREAS SHALL BE RIGID GALVANIZED STEEL, FORM 8 WITH GASKETS AND COVERS. ON STRAIGHT CONDUIT RUNS "C" OR "BC" TYPE FITTINGS SHALL BE INSTALLED AT 300' INTERVALS TO FACILITATE CABLE PULLING. CONDUIT RUNS SHALL HAVE NO MORE THAN (3) 90 DEGREE BENDS WITHOUT A CONDUIT FITTING. FITTING SIZES TO BE USED PER CONDUIT SIZE WITH REGARDS TO CABLE SIZE AND BENDING REQUIREMENTS.</p> <p>14. CONDUIT SEALS SHALL BE INSTALLED WITHIN 18" OF ALL ARCING DEVICES IN CLASSIFIED AREAS AND WITHIN 10 FT ON EITHER SIDE OF THE BOUNDARY. ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE AREA CLASSIFICATION AND PLANT SAFETY STANDARDS. ALL CONDUIT SEAL FITTINGS SHALL BE EXPANSION FILL TYPE. SEAL SHALL BE Poured AFTER ALL TESTS ARE SUCCESSFULLY COMPLETED. AFTER TESTING, ONLY APPROVED SEALING COMPOUND AND FIBER MATERIAL SHALL BE USED. SEALS ARE TO BE PAINTED RED AFTER BEING Poured.</p> <p>15. ALL VERTICAL CONDUIT UNIONS TO BE INSTALLED WITH THE TIGHTENING RING ON TOP.</p> <p>16. "POLYWATER" OR APPROVED EQUAL SHALL BE USED IN ALL CONDUIT RUNS REQUIRING THE USE OF A CABLE PULLING COMPOUND. THE COMPOUND SHALL BE APPLIED LIBERALLY AND EVENLY TO THE SURFACE OF THE CABLES BEING PULLED.</p> <p>17. LIGHTING DISTRIBUTION PANELS SHALL BE DEDICATED TO LIGHTING SYSTEMS, RECEPTACLE PANELS SHALL BE DEDICATED TO CONVENIENCE OUTLET AND OTHER 120/208V POWER USES. HEAT TRACING, INSTRUMENTATION, SHUTDOWN SYSTEMS OR OTHER NON-LIGHTING LOADS SHALL NOT BE SUPPLIED FROM A LIGHTING DISTRIBUTION PANEL.</p> <p>18. GAUGE LIGHTS AND SIGHT GLASS ILLUMINATORS SHALL BE FED FROM THE RECEPTACLE PANEL. GAUGE GLASS LIGHTING SHALL BE ENERGIZED DAY AND NIGHT AND PROVIDED WITH ON/OFF SWITCH FOR EACH COLUMN OF ILLUMINATED GAUGE GLASSES TO CONTROL ALL THE ILLUMINATORS FOR THAT COLUMN. THE SWITCH SHALL BE LOCATED SO THAT IT CAN BE OPERATED FROM THE NORMAL VIEWING POSITION.</p> <p>19. LAMP TYPE SHALL BE LED FOR INDOOR AND OUTDOOR. IN HAZARDOUS AREAS, THE FIXTURES SHALL HAVE APPROPRIATE T RATING WITHIN CLASSIFIED AREAS. LIGHT FIXTURES SHALL BE APPROVED AS EXPLOSION-PROOF FOR THE GAS, GROUP & T-RATING AS SPECIFIED ON THE AREA CLASSIFICATION DRAWINGS (SEE ELECTRICAL DESIGN CRITERIA 15.3).</p> <p>20. HANDRAIL MOUNTED FIXTURES SHALL HAVE STANCHION MOUNTED OUTSIDE THE HANDRAIL AND THE CLEARANCE BETWEEN STANCHION AND HAND RAIL SHALL BE OF 3 IN. MINIMUM. FIXTURES SHALL BE ACCESSIBLE FROM THE PLATFORM FOR MAINTENANCE.</p> <p>21. LIGHTING WIRE/CABLE SHALL BE MINIMUM #12 AWG. EVERY OTHER LIGHT SHALL BE ON SEPARATE CIRCUIT. ONE SPARE CIRCUIT SHALL BE PROVIDED FOR EACH 5 ACTIVE CIRCUITS IN THE INITIAL DESIGN. EACH PHASE SHALL BE EQUALLY LOADED, AS PRACTICABLE. ALL INDOOR LIGHTING SHALL BE CONTROLLED BY LOCAL SWITCH. LIGHTING CIRCUIT LOADING SHALL NOT EXCEED 80% OF THE RATING OF THE PROTECTIVE DEVICE.</p> <p>22. ALL 120V BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS, SAME SIZE AS PHASE CONDUCTOR. SHARING OF NEUTRAL WITH OTHER CIRCUITS SHALL NOT BE PERMITTED.</p> <p>23. SPLICES AND TAPS FOR LIGHTING & CONVENIENCE RECEPTACLES SHALL BE MADE WITH MECHANICAL CONNECTORS IN FITTINGS WITH VOLUME (CHART 1 & 2 THIS DWG.) TO MEET THE REQUIREMENTS OF THE NEC AND LOCAL CODES AND REGULATIONS.</p>	<p>SIZING "TEE" CONDUIT FITTING</p> <p>TO SIZE CONDUIT "TEE" FITTING COUNT NUMBER OF WIRES IN "TEE" (SEE EXAMPLE). FIND NUMBER OF WIRES IN CHART 1 TO DETERMINE CUBIC INCHES REQUIRED, THEN USE CHART 2 TO DETERMINE CORRECT FITTING SIZE.</p> <p>EXAMPLE 7#12 WITH 3 SPLICES MUST BE COUNTED AS 13#12=29.25 CU.IN. REQ'D.</p> <p>CHART 1 REQUIRED SPACE FOR SPLICING (IN CUBIC INCHES)</p> <table border="1"> <thead> <tr> <th rowspan="2">NO. OF WIRES</th><th colspan="2">WIRE SIZE</th><th rowspan="2">NO. OF WIRES</th><th colspan="2">WIRE SIZE</th></tr> <tr> <th>#12</th><th>#10</th><th>#12</th><th>#10</th></tr> </thead> <tbody> <tr><td>2</td><td>4.5</td><td>5</td><td>14</td><td>31.5</td><td>35</td></tr> <tr><td>3</td><td>6.75</td><td>7.5</td><td>15</td><td>33.75</td><td>37.5</td></tr> <tr><td>4</td><td>9</td><td>10</td><td>16</td><td>36</td><td>40</td></tr> <tr><td>5</td><td>11.25</td><td>12.5</td><td>17</td><td>38.25</td><td>42.5</td></tr> <tr><td>6</td><td>13.5</td><td>15</td><td>18</td><td>40.5</td><td>45</td></tr> <tr><td>7</td><td>15.75</td><td>17.5</td><td>19</td><td>42.75</td><td>47.5</td></tr> <tr><td>8</td><td>18</td><td>20</td><td>20</td><td>45</td><td>50</td></tr> <tr><td>9</td><td>20.25</td><td>22.5</td><td>21</td><td>47.25</td><td>52.5</td></tr> <tr><td>10</td><td>22.5</td><td>25</td><td>22</td><td>49.5</td><td>55</td></tr> <tr><td>11</td><td>24.75</td><td>27.5</td><td>23</td><td>51.75</td><td>57.5</td></tr> <tr><td>12</td><td>27</td><td>30</td><td>24</td><td>54</td><td>60</td></tr> <tr><td>13</td><td>29.25</td><td>32.5</td><td>25</td><td>56.25</td><td>62.5</td></tr> </tbody> </table> <p>NOTE: CHART 1 IS BASED ON N.E.C. TABLE 314.16(B) VOLUME ALLOWANCE REQUIRED PER CONDUCTOR #12 AWG (2.25 CU.IN) AND #10 AWG (2.50 CU.IN.)</p> <p>CHART 2 CUBIC INCH CONTENT OF "TEE" FITTINGS</p> <table border="1"> <thead> <tr> <th rowspan="2">FITTING SIZE</th><th rowspan="2">VOLUME (CU. IN.) FORM 8</th><th colspan="2">WIRE SIZE</th></tr> <tr> <th>#12</th><th>#10</th></tr> </thead> <tbody> <tr><td>3/4"</td><td>10.0</td><td>14</td><td>31.5</td></tr> <tr><td>1"</td><td>15.5</td><td>15</td><td>33.75</td></tr> <tr><td>1 1/2"</td><td>44.0</td><td>16</td><td>36</td></tr> <tr><td>2"</td><td>88.0</td><td>17</td><td>38.25</td></tr> <tr><td>2 1/2"</td><td>198.0</td><td>18</td><td>40.5</td></tr> </tbody> </table> <p>NOTE: CHART 2 IS BASED ON EATON CROUSE-HINDS FITTINGS CUBIC CAPACITY CHART. IF USING DIFFERENT MANUFACTURER CHART SHALL BE UPDATED.</p>	NO. OF WIRES	WIRE SIZE		NO. OF WIRES	WIRE SIZE		#12	#10	#12	#10	2	4.5	5	14	31.5	35	3	6.75	7.5	15	33.75	37.5	4	9	10	16	36	40	5	11.25	12.5	17	38.25	42.5	6	13.5	15	18	40.5	45	7	15.75	17.5	19	42.75	47.5	8	18	20	20	45	50	9	20.25	22.5	21	47.25	52.5	10	22.5	25	22	49.5	55	11	24.75	27.5	23	51.75	57.5	12	27	30	24	54	60	13	29.25	32.5	25	56.25	62.5	FITTING SIZE	VOLUME (CU. IN.) FORM 8	WIRE SIZE		#12	#10	3/4"	10.0	14	31.5	1"	15.5	15	33.75	1 1/2"	44.0	16	36	2"	88.0	17	38.25	2 1/2"	198.0	18	40.5									
NO. OF WIRES	WIRE SIZE			NO. OF WIRES	WIRE SIZE																																																																																																																		
	#12	#10	#12		#10																																																																																																																		
2	4.5	5	14	31.5	35																																																																																																																		
3	6.75	7.5	15	33.75	37.5																																																																																																																		
4	9	10	16	36	40																																																																																																																		
5	11.25	12.5	17	38.25	42.5																																																																																																																		
6	13.5	15	18	40.5	45																																																																																																																		
7	15.75	17.5	19	42.75	47.5																																																																																																																		
8	18	20	20	45	50																																																																																																																		
9	20.25	22.5	21	47.25	52.5																																																																																																																		
10	22.5	25	22	49.5	55																																																																																																																		
11	24.75	27.5	23	51.75	57.5																																																																																																																		
12	27	30	24	54	60																																																																																																																		
13	29.25	32.5	25	56.25	62.5																																																																																																																		
FITTING SIZE	VOLUME (CU. IN.) FORM 8	WIRE SIZE																																																																																																																					
		#12	#10																																																																																																																				
3/4"	10.0	14	31.5																																																																																																																				
1"	15.5	15	33.75																																																																																																																				
1 1/2"	44.0	16	36																																																																																																																				
2"	88.0	17	38.25																																																																																																																				
2 1/2"	198.0	18	40.5																																																																																																																				
4																																																																																																																							
5																																																																																																																							
6																																																																																																																							

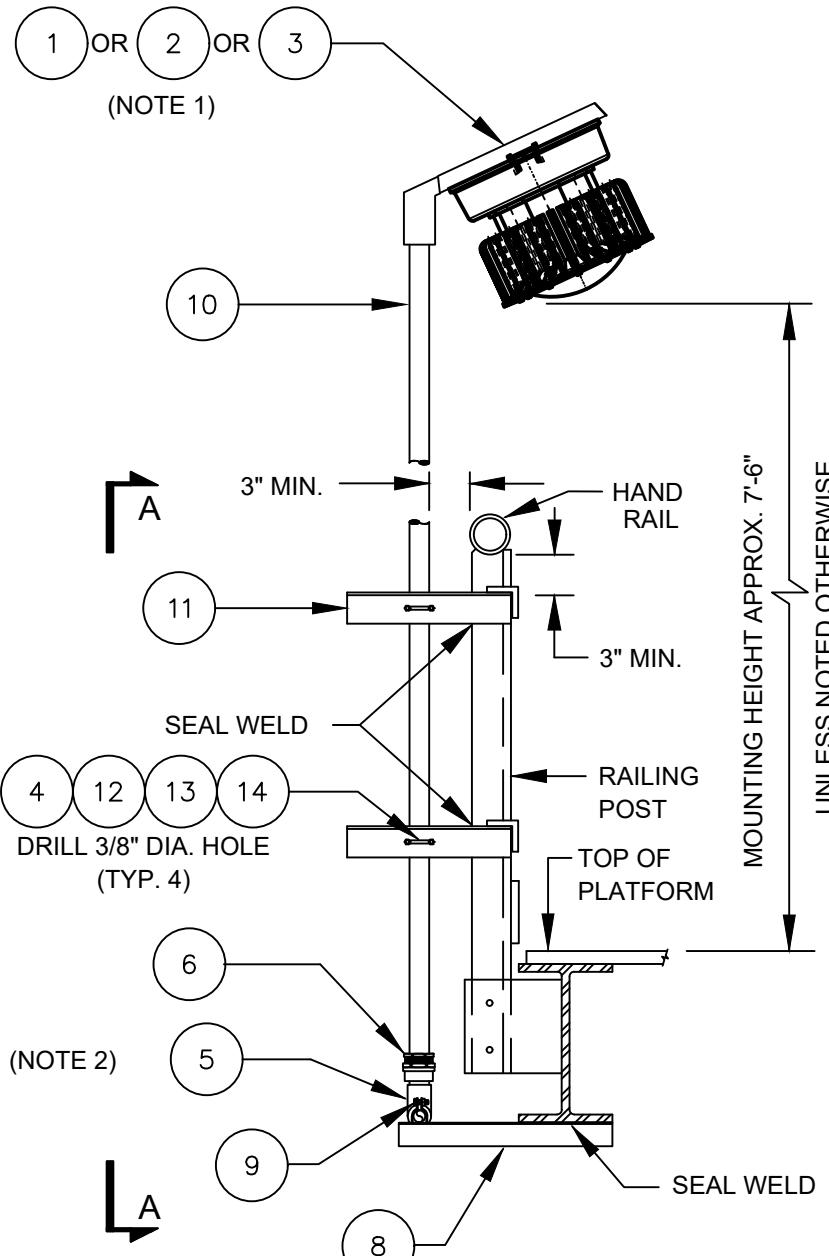
A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. THIS INFORMATION IS PROPRIETARY AND CONFIDENTIAL AND IS PROVIDED TO THE CONTRACTOR AND/OR ITS CLIENT. USE OF THIS INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGY INC. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS NOTES						
  TEN TECHNIP ENERGY COMMONWEALTH LNG						
SCALE	CLIENT NUMBER	DRAWN BY	FV			
PROJECT NUMBER	TECHNIP ENERGY NUMBER	REVISION	078051C	078051C-000-STD-1683-0001-3	A	

LEGEND AND SYMBOLS		LEGEND AND SYMBOLS (CONTINUE)		LEGEND AND SYMBOLS (CONTINUE)	
I (C)	CEILING MOUNT FIXTURE - INDOOR	HAC	CEILING MOUNT FIXTURE TYPE LINEAR - HAZARDOUS AREA CLASSIFICATION	[PE]	PHOTOELECTRIC EYE - INDOOR
I (C) *	CEILING MOUNT FIXTURE - EMERGENCY / INDOOR	HAC	PENDANT MOUNT FIXTURE TYPE LINEAR- HAZARDOUS AREA CLASSIFICATION	[PE] WP	PHOTOELECTRIC EYE - WEATHERPROOF TYPE
WP (C) *	CEILING MOUNT FIXTURE - EMERGENCY / WEATHERPROOF TYPE	HAC G	STANCHION MOUNT FIXTURE TYPE LINEAR - HAZARDOUS AREA CLASSIFICATION	[PE] HAC	PHOTOELECTRIC EYE - HAZARDOUS AREA CLASSIFICATION
WP (C)	CEILING MOUNT FIXTURE - WEATHERPROOF TYPE	HAC H	WALL MOUNT FIXTURE TYPE LINEAR - HAZARDOUS AREA CLASSIFICATION	[✉]	CONTROLLER FOR LIGHT
HAC (C)	CEILING MOUNT FIXTURE - HAZARDOUS AREA CLASSIFICATION	HAC	AVIATION OBSTRUCTION LIGHT FIXTURE - HAZARDOUS AREA CLASSIFICATION	[✉]	POWER SUPPLY
HAC (C) *	CEILING MOUNT FIXTURE - EMERGENCY / HAZARDOUS AREA CLASSIFICATION	HAC *	AVIATION OBSTRUCTION LIGHT FIXTURE - EMERGENCY / HAZARDOUS AREA CLASSIFICATION	[S.S.]	SAFETY SHOWER
I (●)	PENDANT MOUNT FIXTURE - INDOOR	I G	FLOOD LIGHT - INDOOR	[■]	LIGHTING PANEL
I (●) *	PENDANT MOUNT FIXTURE - EMERGENCY / INDOOR	I G *	FLOOD LIGHT - EMERGENCY / INDOOR	[■]	EMERGENCY LIGHTING PANEL
WP (●) *	PENDANT MOUNT FIXTURE - EMERGENCY / WEATHERPROOF TYPE	WP G	FLOOD LIGHT - EMERGENCY / WEATHERPROOF TYPE	'TR-LPX'	LIGHTING TRANSFORMER
WP (●)	PENDANT MOUNT FIXTURE - WEATHERPROOF TYPE	WP G	FLOOD LIGHT - WEATHERPROOF TYPE	'JB-LPX'	LIGHTING JUNCTION BOX
HAC (●)	PENDANT MOUNT FIXTURE - HAZARDOUS AREA CLASSIFICATION	HAC G	FLOOD LIGHT - HAZARDOUS AREA CLASSIFICATION	[■]	RECEPTACLE PANEL
HAC (●) *	PENDANT MOUNT FIXTURE - EMERGENCY / HAZARDOUS AREA CLASSIFICATION	HAC G	FLOOD LIGHT - EMERGENCY / HAZARDOUS AREA CLASSIFICATION	'TR-RPX'	RECEPTACLE TRANSFORMER
I (○)	WALL MOUNT FIXTURE - INDOOR	I G	POLE MOUNTED FLOOD LIGHT - INDOOR	'JB-RPX'	RECEPTACLE JUNCTION BOX
I (○) *	WALL MOUNT FIXTURE - EMERGENCY / INDOOR	I G *	POLE MOUNTED FLOOD LIGHT - EMERGENCY / INDOOR	(▲)	120VAC CONVENIENCE RECEPTACLE
WP (○) *	WALL MOUNT FIXTURE - EMERGENCY / WEATHERPROOF TYPE	WP G	POLE MOUNTED FLOOD LIGHT - EMERGENCY / WEATHERPROOF TYPE	(▲) HAC	120VAC CONVENIENCE RECEPTACLE HAZARDOUS AREA CLASSIFICATION
WP (○)	WALL MOUNT FIXTURE - WEATHERPROOF TYPE	WP G	POLE MOUNTED FLOOD LIGHT - WEATHERPROOF TYPE	{ }	EXPOSED RIGID CONDUIT
HAC (○)	WALL MOUNT FIXTURE - HAZARDOUS AREA CLASSIFICATION	HAC G	POLE MOUNTED FLOOD LIGHT- HAZARDOUS AREA CLASSIFICATION	{ }	EMBEDDED OR HIDDEN CONDUIT
HAC (○) *	WALL MOUNT FIXTURE - EMERGENCY / HAZARDOUS AREA CLASSIFICATION	HAC G *	POLE MOUNTED FLOOD LIGHT - EMERGENCY / HAZARDOUS AREA CLASSIFICATION	{ }	CONDUIT TURNING DOWN
I (○)	STANCHION MOUNT FIXTURE - INDOOR	C	POLE MOUNTED STREET LIGHT - INDOOR	{ }	CONDUIT TURNING UP
I (○) *	STANCHION MOUNT FIXTURE - EMERGENCY / INDOOR	C E	POLE MOUNTED STREET LIGHT - EMERGENCY / INDOOR	{ }	END OF CONDUIT RUN WITH PLUG
WP (○) *	STANCHION MOUNT FIXTURE - EMERGENCY / WEATHERPROOF TYPE	C E WP	POLE MOUNTED STREET LIGHT - EMERGENCY / WEATHERPROOF TYPE	LIGHTING FIXTURE	
WP (○)	STANCHION MOUNT FIXTURE - WEATHERPROOF TYPE	C E WP	POLE MOUNTED STREET LIGHT - WEATHERPROOF TYPE	I (C)	A: LIGHTING PANEL IDENTIFICATION B: CIRCUIT NUMBER C: PROGRESSIVE FIXTURE D: MOUNTING DETAIL E: ELEVATION (IF NECESSARY)
HAC (○)	STANCHION MOUNT FIXTURE - HAZARDOUS AREA CLASSIFICATION	C E HAC	POLE MOUNTED STREET LIGHT - HAZARDOUS AREA CLASSIFICATION		
HAC (○) *	STANCHION MOUNT FIXTURE - EMERGENCY / HAZARDOUS AREA CLASSIFICATION	C E HAC *	POLE MOUNTED STREET LIGHT - EMERGENCY / HAZARDOUS AREA CLASSIFICATION		
I (○)	AVIATION OBSTRUCTION LIGHT FIXTURE - INDOOR	G	PHOTOCELL - INDOOR		
I (○) *	AVIATION OBSTRUCTION LIGHT FIXTURE - EMERGENCY / INDOOR	G *	PHOTOCELL - WEATHERPROOF TYPE		
WP (○) *	AVIATION OBSTRUCTION LIGHT FIXTURE - EMERGENCY / WEATHERPROOF TYPE	G * WP	PHOTOCELL - HAZARDOUS AREA CLASSIFICATION		
WP (○)	AVIATION OBSTRUCTION LIGHT FIXTURE - WEATHERPROOF TYPE	G * WP			

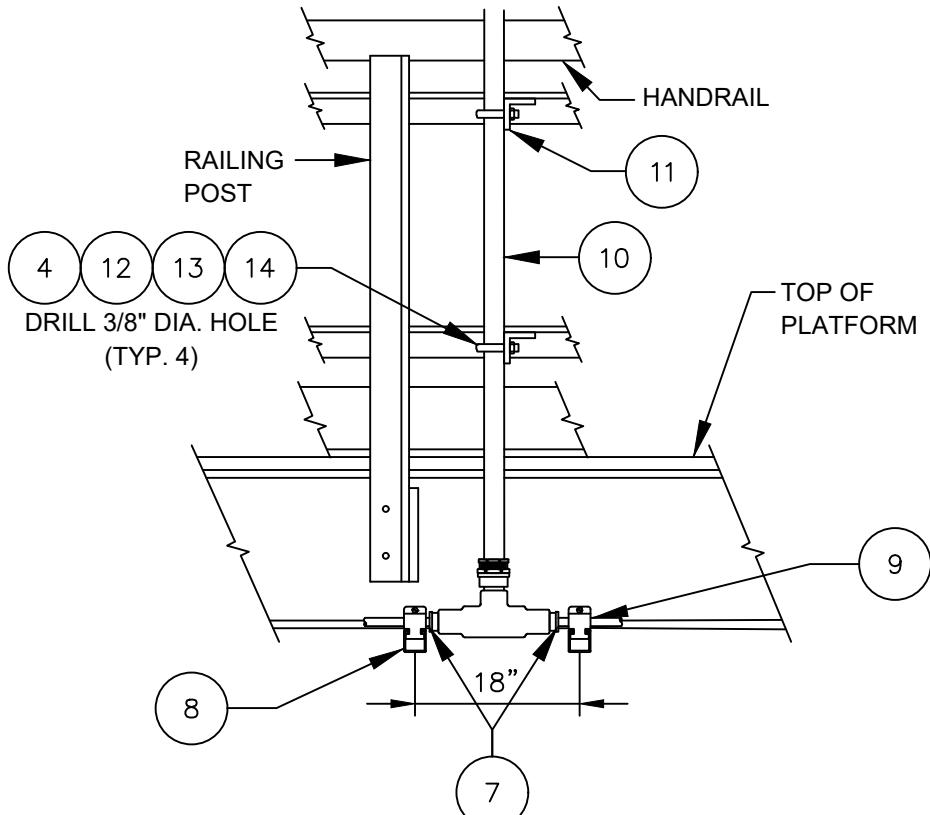
L01A/B/C

NOTES:

1. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65
 2. FOR "T"- FITTING SIZE REFER TO NOTE SHEET, CHART 1 AND CHART 2 ON SHEET



ITEM	L01A QTY	L01B QTY	L01C QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE
1	1	-	-	EA	LED, CHAMP VMV, STANCHION MOUNT,25 DEG. ANGLE, 29W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K	16LTGS990039
2	-	1	-	EA	LED, CHAMP VMV, STANCHION MOUNT,25 DEG. ANGLE, 41W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K	16LTGS990040
3	-	-	1	EA	LED, CHAMP VMV, STANCHION MOUNT,25 DEG. ANGLE, 54W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K	16LTGS990041
4	2	2	2	EA	U-BOLT, 1/4" X 1 1/2", 1 1/2" PIPE, 316 STAINLESS STEEL	16HWRX260123
5	1	1	1	EA	FITTING, CONDUIT BODY 1 1/2", TYPE "T", FORM 8, IRON ALLOY WITH COVER AND GASKET	16CONF150185
6	1	1	1	EA	UNION, CONDUIT, 1 1/2", TYPE "UNY" MALE/FEMALE	16CONF990200
7	2	2	2	EA	REDUCER, CONDUIT, 1 1/2" X 3/4"	16CONF140138
8	3	3	3	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED	16STUS060064
9	2	2	2	EA	CONDUIT STRAP, 3/4" SS WITH SS6 HARDWARE, USE WITH 1 5/8" STRUT CHANNEL	16STUA260014
10	10	10	10	FT	CONDUIT 1 1/2", RIGID GALVANIZED STEEL	16CONS050022
11	2	2	2	FT	STEEL, ANGLE, L3 X 3 X 1/4, ASTM A36, HDG	16SPTS060009
12	4	4	4	EA	WASHER, FLAT 1/4" 316 STAINLESS STEEL	16HWRX260060
13	4	4	4	EA	WASHER, LOCK 1/4" 316 STAINLESS STEEL	16HWRX260069
14	4	4	4	EA	NUT, HEX HEAD, 1/4" 316 STAINLESS STEEL	16HWRX260049



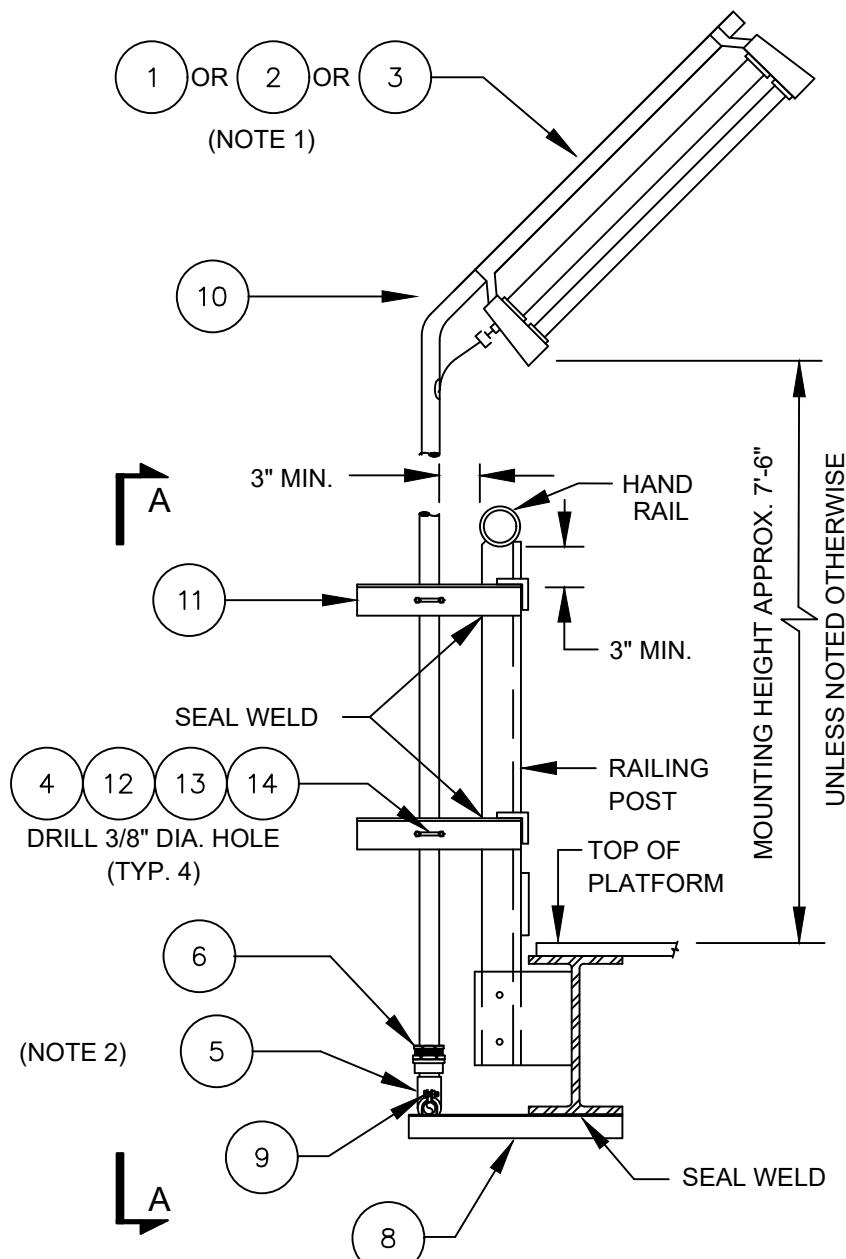
SECTION A-A

A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VWA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APPR
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGIES NV GROUP. UNIT AND EMPLOYES CONFIDENTIAL AND PROPRIETARY INFORMATION OF THE APPLICABLE ENTITY AND/OR ITS CLIENTS. USE OF THIS INFORMATION IS RESTRICTED AND IN ACCORDANCE WITH CONTRACTUAL AGREEMENTS BY THE CONTRACT. TECHNIP ENERGIES NV, AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT	COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA					
TITLE	ELECTRICAL LIGHTING INSTALLATION DETAILS HANDRAIL MOUNTED STANCHION LIGHT FOR HAZARDOUS AREA CLASSIFICATION "L01"					
 					COMMONWEALTH LNG	
SCALE	CLIENT NUMBER			DRAWN BY		
PROJECT NUMBER	TECHNIP ENERGIES NUMBER			REVISION		
078051C	078051C-000-STD-1683-0001-5			A		

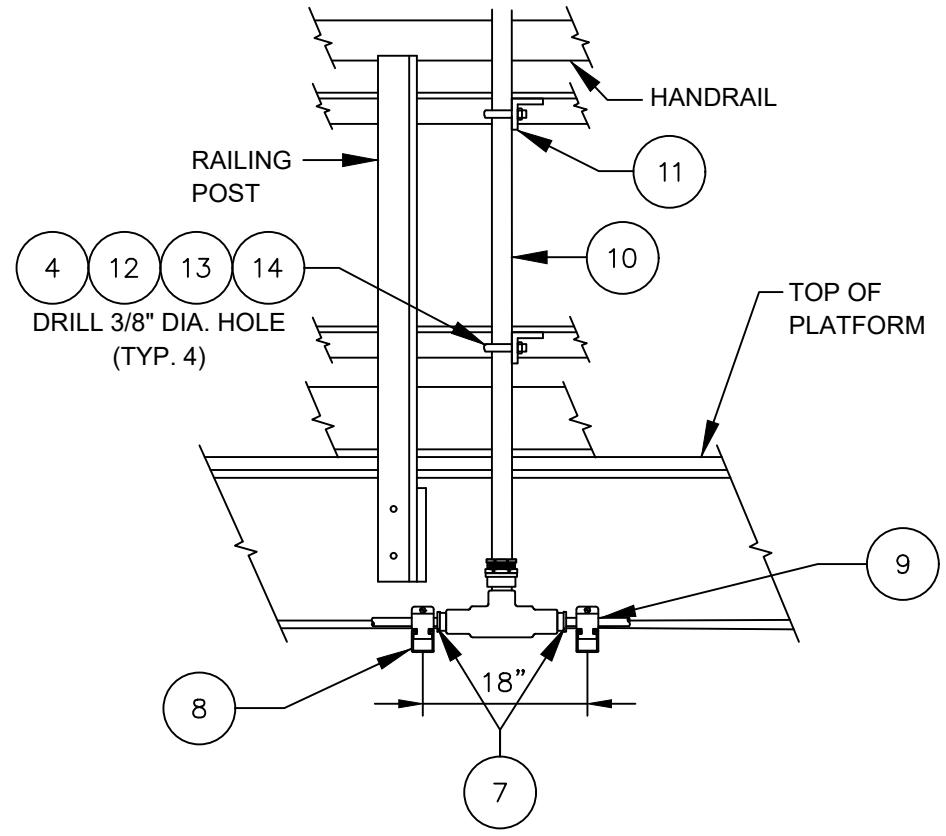
L02A/B/C

NOTES:

1. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65.
 2. FOR "T"- FITTING SIZE REFER TO NOTE SHEET, CHART 1 AND CHART 2 ON SHEET 3

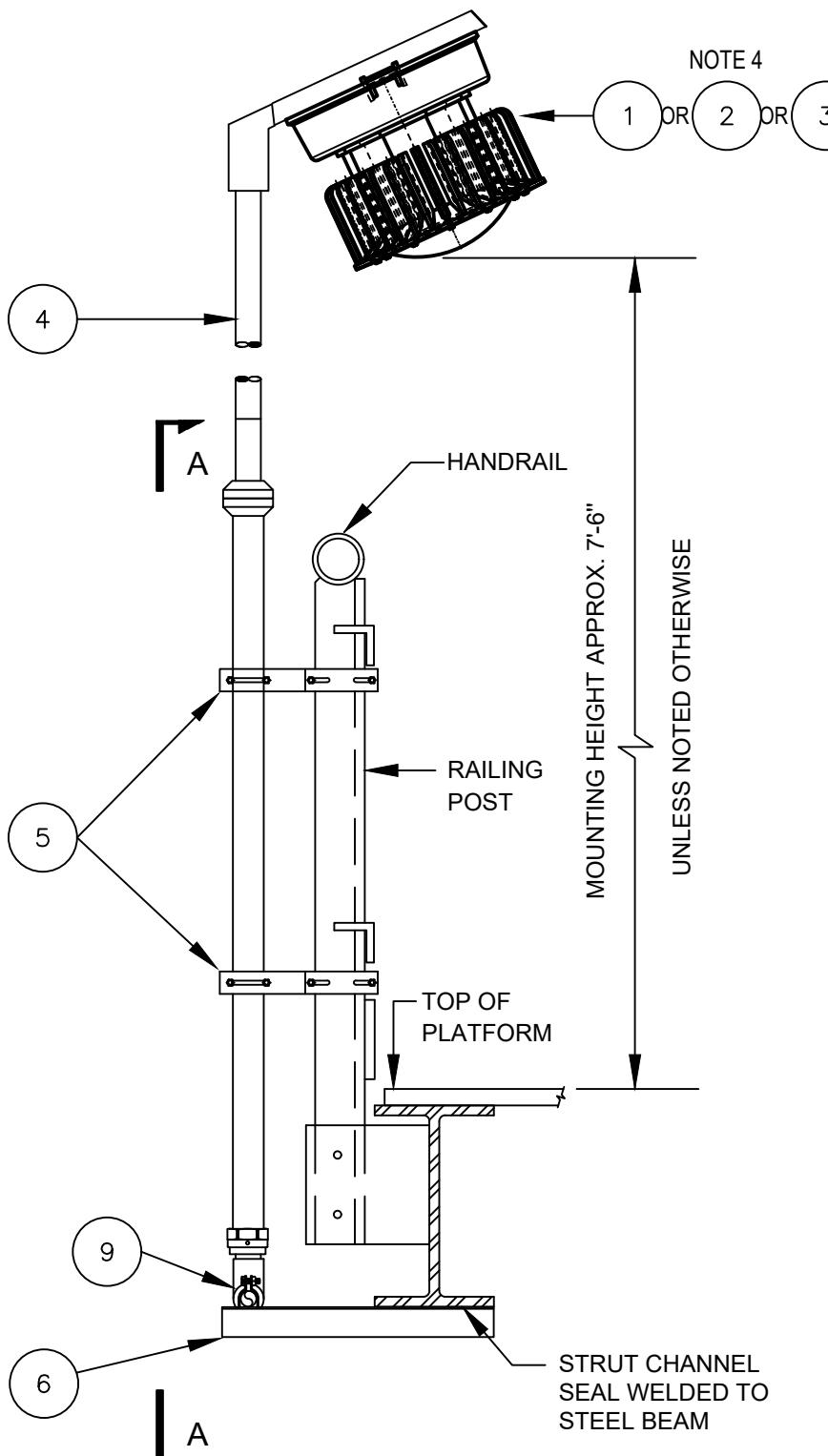


ITEM	L02A QTY	L02B QTY	L02C QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE
1	1	-	-	EA	LED LINEAR ,STANCHION MOUNT ,25 DEG. ANGLE, 30W, CL. I, DIV. 2, A,B,C,D, 100-240VAC, 5700K	16LTGS990103
2	-	1	-	EA	LED LINEAR , STANCHION MOUNT ,25 DEG. ANGLE, 40W, CL. I, DIV. 2, A,B,C,D, 100-240VAC, 5700K	16LTGS990104
3	-	-	1	EA	LED LINEAR , STANCHION MOUNT ,25 DEG. ANGLE, 60W, CL. I, DIV. 2, A,B,C,D, 100-240VAC, 5700K	16LTGS990105
4	2	2	2	EA	U-BOLT, 1/4" X 1 1/2", 1 1/2" PIPE, 316 STAINLESS STEEL	16HWRX260123
5	1	1	1	EA	FITTING, CONDUIT BODY 1 1/2", TYPE "T", FORM 8, IRON ALLOY WITH COVER AND GASKET	16CONF150185
6	1	1	1	EA	UNION, CONDUIT, 1 1/2", TYPE "UNY" MALE/FEMALE	16CONF990200
7	2	2	2	EA	REDUCER, CONDUIT, 1 1/2" X 3/4"	16CONF140138
8	3	3	3	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED	16STUS060064
9	2	2	2	EA	CONDUIT STRAP, 3/4" SS WITH SS6 HARDWARE, USE WITH 1 5/8" STRUT CHANNEL	16STUA260014
10	10	10	10	EA	CONDUIT 1 1/2", RIGID GALVANIZED STEEL	16CONS050022
11	2	2	2	FT	STEEL, ANGLE, L3 X 3 X 1/4, ASTM A36, HDG	16SPTS060009
12	4	4	4	EA	WASHER, FLAT 1/4" 316 STAINLESS STEEL	16HWRX260060
13	4	4	4	EA	WASHER, LOCK 1/4" 316 STAINLESS STEEL	16HWRX260069
14	4	4	4	EA	NUT, HEX HEAD, 1/4" 316 STAINLESS STEEL	16HWRX260049

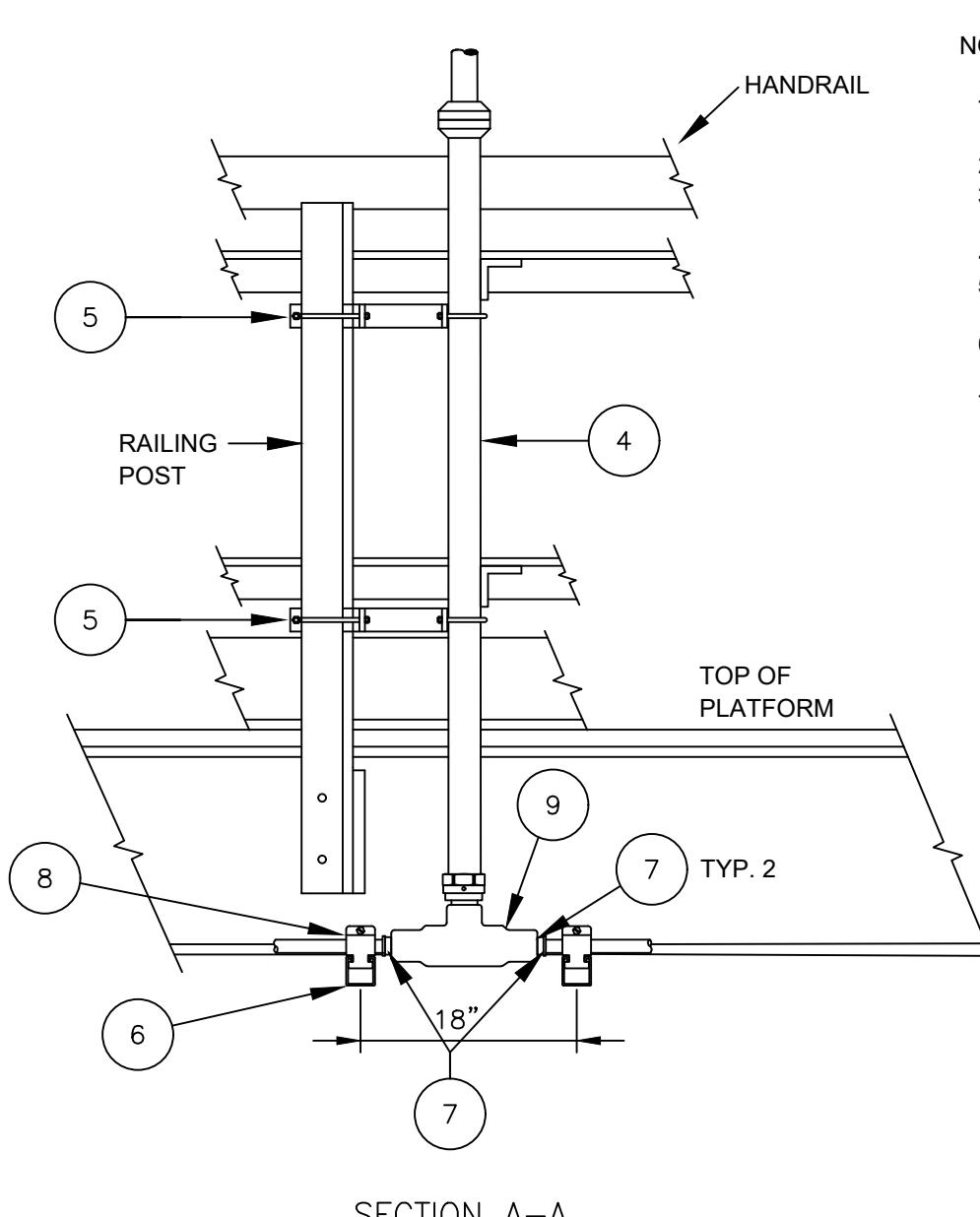


SECTION A-A

A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL						
INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGIES N.V. BUSINESS UNIT AND IS EXCLUDED FROM CONFIDENTIAL AND PROPRIETARY INFORMATION OF THE APPLICABLE ENTITY AND ITS AFFILIATES. USE OF THIS INFORMATION IS RESTRICTED ACCORDING TO THE CONTRACTUAL AGREEMENTS BY THE CONTRACT. TECHNIP ENERGIES N.V. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT	COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA					
TITLE	ELECTRICAL LIGHTING INSTALLATION DETAILS LINEAR HANDRAIL MOUNTED STANCHION LIGHT FOR HAZARDOUS AREA CLASSIFICATION "L02"					
 		 COMMONWEALTH LNG				
SCALE	CLIENT NUMBER				DRAWN BY	
					FV	
PROJECT NUMBER	TECHNIP ENERGIES NUMBER				REVISION	
078051C	078051C-000-STD-1683-0001-6				A	

A | B | C | D | E | F | G | H | J | K
L03A/B/C

ITEM	L03A QTY	L03B QTY	L03C QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE
1	1	-	-	EA	LED, CHAMP VMV, STANCHION MOUNT, 25 DEG. ANGLE, 29W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K	16LTGS990039
2	-	1	-	EA	LED, CHAMP VMV, STANCHION MOUNT, 25 DEG. ANGLE, 41W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K	16LTGS990040
3	-	-	1	EA	LED, CHAMP VMV, STANCHION MOUNT, 25 DEG. ANGLE, 54W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K	16LTGS990041
4	1	1	1	EA	TELESCOPING POLE, V-SPRING, STANCHION, HDG, #12/3 PREWIRED, 1-1/2" THREAD	16LTGS060062
5	1	1	1	PR	BRACKET, RAIL MOUNT FOR TELESCOPING POLE, ANGULAR, STAINLESS STEEL	16LTGA260063
6	3	3	3	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED	16STUS060064
7	2	2	2	EA	REDUCER, CONDUIT, 1 1/2" X 3/4"	16CONF140138
8	2	2	2	EA	CONDUIT STRAP, 3/4" SS WITH SS6 HARDWARE, USE WITH 1 5/8" STRUT CHANNEL	16STUA260014
9	1	1	1	EA	FITTING, CONDUIT BODY 1 1/2", TYPE "T", FORM 8, IRON ALLOY WITH COVER AND GASKET	16CONF150185



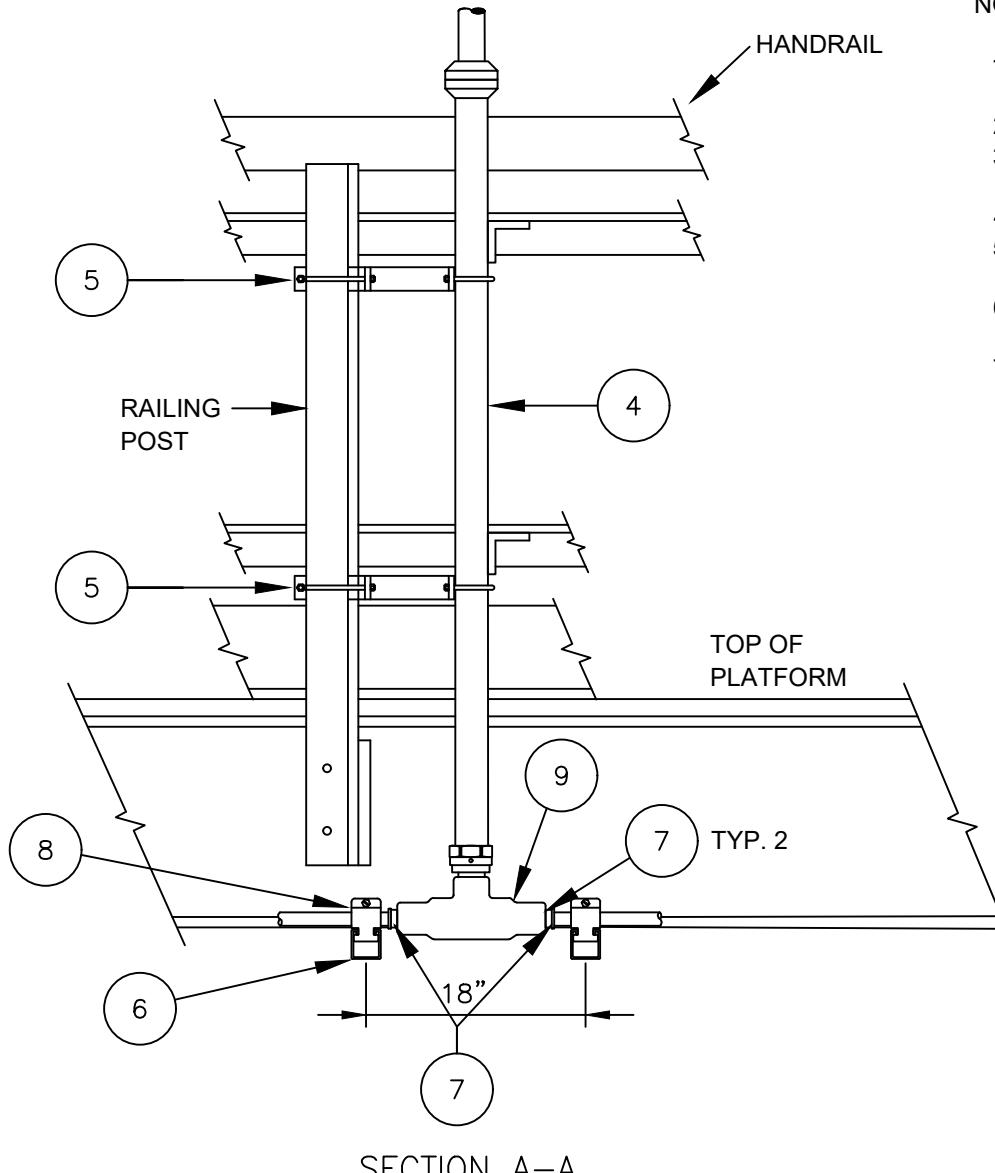
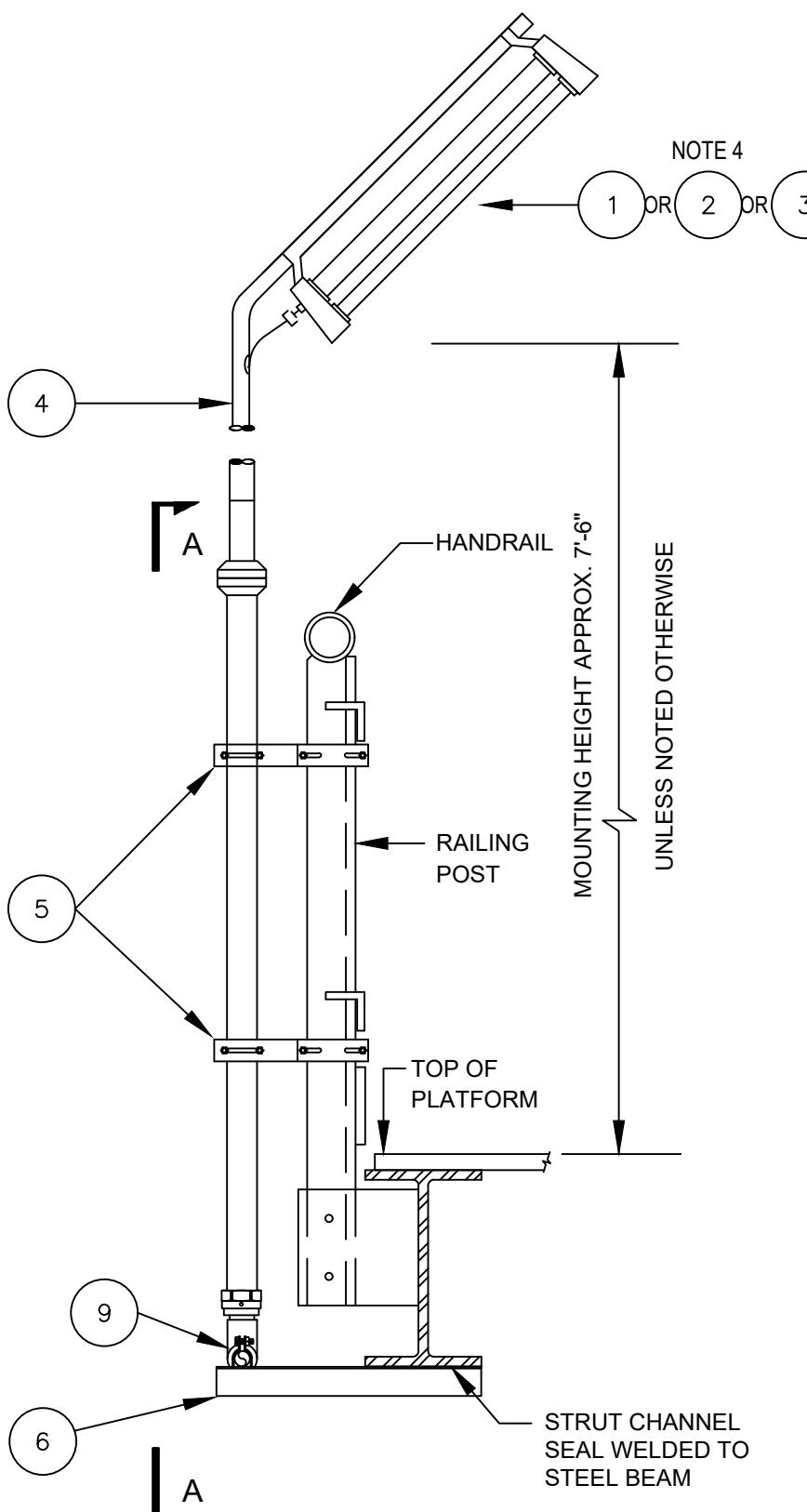
NOTES:

1. TELESCOPING SPRING POLE IS SUITABLE FOR CL.1, DIV. 2 LOCATIONS.
2. POLE IS ADJUSTABLE TO 9'-0" AND COMPRESSED TO 5'-4"
3. POLE IS PRE-WIRED WITH 3 #12 AWG, 600V, -40 - 105C SUN AND OIL RESISTANT CABLE
4. MAXIMUM LIGHT FIXTURE WEIGHT NOT TO EXCEED 50 POUNDS.
5. FINAL AIMING ANGLE SHALL BE DETERMINED AT SITE. SEE PLAN DRAWING FOR MOUNTING HEIGHT/ELEVATION.
6. FOR "T" FITTING SIZE REFER TO NOTE SHEET, CHART 1 AND CHART 2 ON SHEET 3.
7. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65.

A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VW	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS UNAUTHORIZED TO REPRODUCE, DISTRIBUTE, OR DISCLOSE THIS INFORMATION WITHOUT THE EXPRESS WRITTEN CONSENT OF THE CONTRACTOR, TECHNIP ENERGIES NV, AND ITS AFFILIATES. ANY MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT, ARE UNAUTHORIZED.						
CLIENT COMMONWEALTH LNG LLC INSTALLATION DETAILS FOR TELESCOPING POLE LIGHT CAMERON PARISH, LOUISIANA						
TITLE ELECTRICAL LIGHTING FOR HAZARDOUS AREA CLASSIFICATION "L03"						
Scale _____ Client Number _____ Drawn by _____ FV						
Project Number _____ Technip Energies Number _____ Revision _____ 078051C 078051C-000-STD-1683-0001-7 A						

L04A/B/C

ITEM	L04A QTY	L04B QTY	L04C QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE
1	1	-	-	EA	LED LINEAR ,STANCHION MOUNT ,25 DEG. ANGLE, 30W, CL. I, DIV. 2, A,B,C,D, 100-240VAC, 5700K	16LTGS990103
2	-	1	-	EA	LED LINEAR , STANCHION MOUNT ,25 DEG. ANGLE, 40W, CL. I, DIV. 2, A,B,C,D, 100-240VAC, 5700K	16LTGS990104
3	-	-	1	EA	LED LINEAR , STANCHION MOUNT ,25 DEG. ANGLE, 60W, CL. I, DIV. 2, A,B,C,D, 100-240VAC, 5700K	16LTGS990105
4	1	1	1	EA	TELESCOPING POLE, V-SPRING, STANCHION, HDG, #12/3 PREWIRED, 1-1/2" THREAD	16LTGS060062
5	1	1	1	PR	BRACKET, RAIL MOUNT FOR TELESCOPING POLE, ANGULAR, STAINLESS STEEL	16LTGA260063
6	3	3	3	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED	16STUS060064
7	2	2	2	EA	REDUCER, CONDUIT, 1 1/2" X 3/4"	16CONF140138
8	2	2	2	EA	CONDUIT STRAP, 3/4" SS WITH SS6 HARDWARE, USE WITH 1 5/8" STRUT CHANNEL	16STUA260014
9	1	1	1	EA	FITTING, CONDUIT BODY 1 1/2", TYPE "T", FORM 8, IRON ALLOY WITH COVER AND GASKET	16CONF150185



NOTES

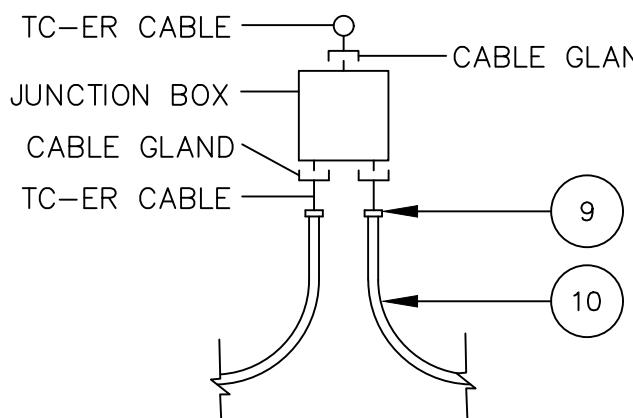
1. TELESCOPING SPRING POLE IS SUITABLE FOR CL.1, DIV. 2 LOCATIONS.
 2. POLE IS ADJUSTABLE TO 9'-0" AND COMPRESSED TO 5'-4"
 3. POLE IS PRE-WIRED WITH 3 #12 AWG, 600V, -40 - 105C SUN AND OIL RESISTANT CABLE
 4. MAXIMUM LIGHT FIXTURE WEIGHT NOT TO EXCEED 50 POUNDS.
 5. FINAL AIMING ANGLE SHALL BE DETERMINED AT SITE. SEE PLAN DRAWING FOR MOUNTING HEIGHT/ELEVATION.
 6. FOR "T" FITTING SIZE REFER TO NOTE SHEET, CHART 1 AND CHART 2 ON SHEET 3.
 7. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65

A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA
REV	REVISION DESCRIPTION		DATE	DRAWN	CHECKED	APPROVED
CONFIDENTIAL						
INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGIES NV BUSINESS UNIT AND EXCLUDED FROM THE SCOPE OF ANY INFORMATION ON THE APPLICABLE ENTITY AND/OR ITS CLIENT. USE OF THIS INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED BY THE CONTRACT. TECHNIP ENERGIES NV AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT	COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA					
TITLE	ELECTRICAL LIGHTING INSTALLATION DETAILS LINEAR STANCHION TELESCOPING POLE LIGHT FOR HAZARDOUS AREA CLASSIFICATION "L04"					
				COMMONWEALTH LNG		
SCALE	CLIENT NUMBER			DRAWN BY		
				FV		
PROJECT NUMBER	TECHNIP ENERGIES NUMBER			REVISION		
078051C	078051C-000-STD-1683-0001-8			A		

L05A/B/C/D/E/F

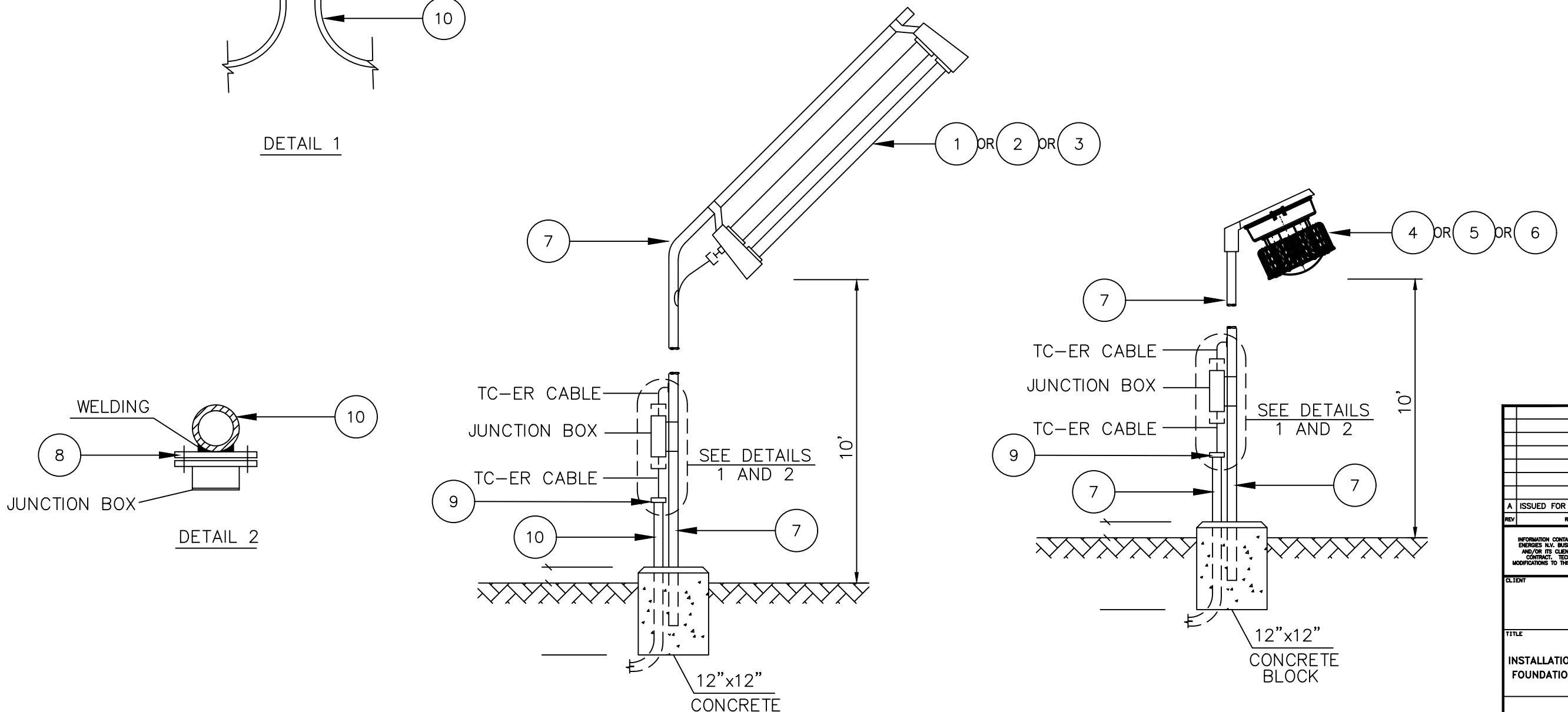
NOTES

1. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 6.
 2. SEE BULK MATERIAL MR (MATERIAL REQUISITION) FOR CABLE GLANDS AND JUNCTION BOXES DEFINITIONS.



DETAIL 1

ITEM	L05A QTY	L05B QTY	L05C QTY	L05D QTY	L05E QTY	L05F QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE
1	1	-	-	-	-	-	EA	LED LINEAR ,STANCHION MOUNT ,25 DEG. ANGLE, 30W, CL. I, DIV. 2, A,B,C,D, 100-240VAC, 5700K	16LTGS990103
2	-	1	-	-	-	-	EA	LED LINEAR , STANCHION MOUNT ,25 DEG. ANGLE, 40W, CL. I, DIV. 2, A,B,C,D, 100-240VAC, 5700K	16LTGS990104
3	-	-	1		-	-	EA	LED LINEAR , STANCHION MOUNT ,25 DEG. ANGLE, 60W, CL. I, DIV. 2, A,B,C,D, 100-240VAC, 5700K	16LTGS990105
4	-	-	-	1	-	-	EA	LED, CHAMP VMV, STANCHION MOUNT,25 DEG. ANGLE, 29W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K	16LTGS990039
5	-	-	-	-	1	-	EA	LED, CHAMP VMV, STANCHION MOUNT,25 DEG. ANGLE, 41W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K	16LTGS990040
6	-	-	-	-	-	1	EA	LED, CHAMP VMV, STANCHION MOUNT,25 DEG. ANGLE, 54W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K	16LTGS990041
7	20	20	20	20	20	20	FT	CONDUIT 1 1/2", RIGID GALVANIZED STEEL	16CONS050022
8	1	1	1	1	1	1	EA	PLATE PRE-CUT 1/4" THICK CARBON STEEL HDG, 4 X 16	16SPTS060002
9	2	2	2	2	2	2	EA	BUSHING, GROUNDING 1", INSULATED THROAT, GROUND WIRE RANGE #4-#14 AWG - MALLEABLE IRON	16CONF990046
10	3	3	3	3	3	3	FT	CONDUIT 1", RIGID GALVANIZED STEEL	16CONS050021

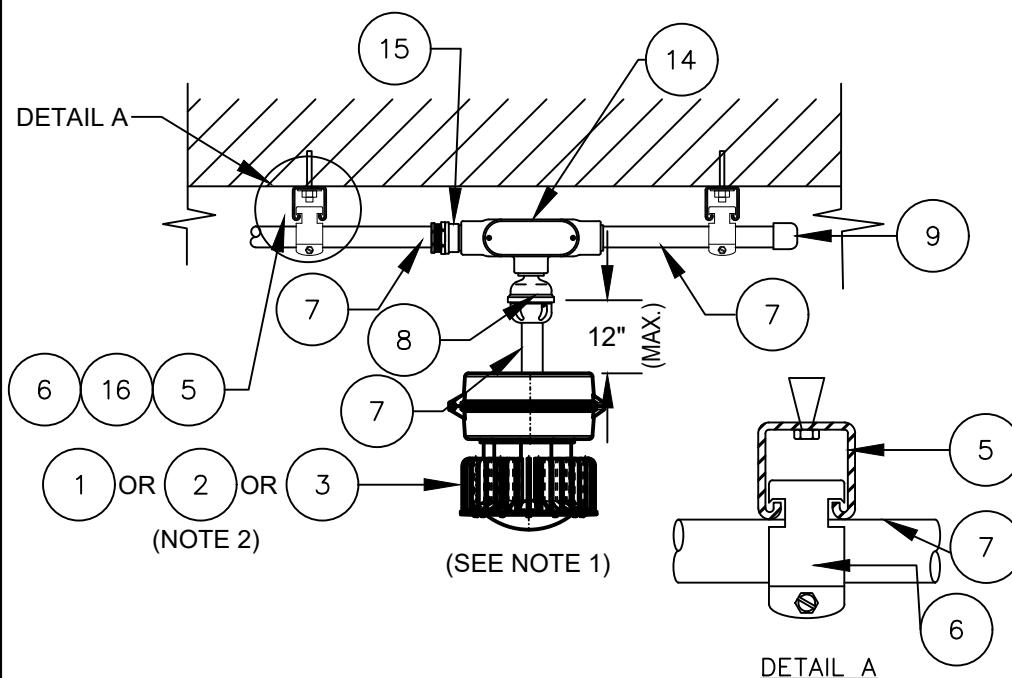


DETAIL L05A/L05B/L05C

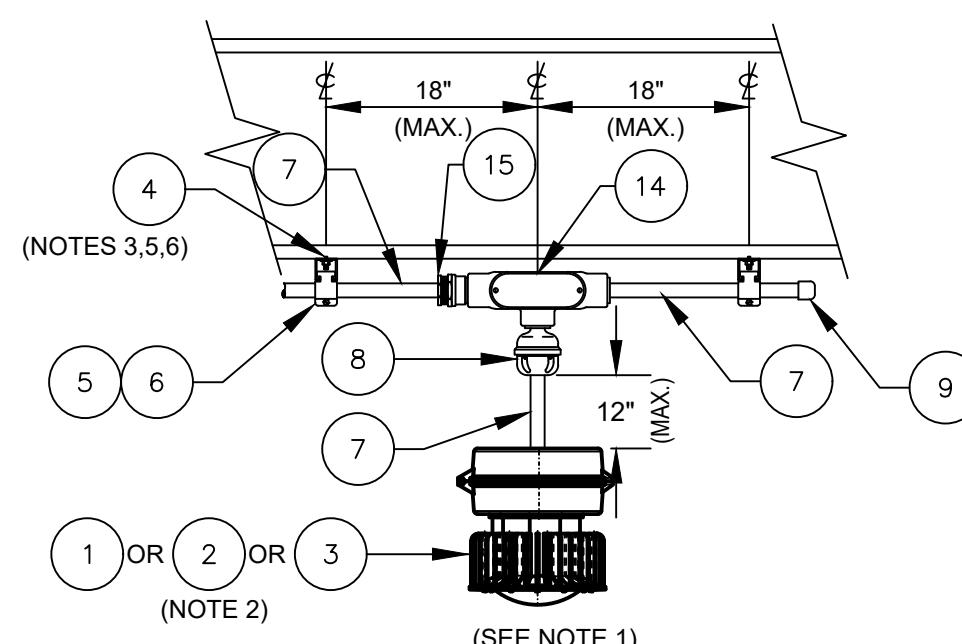
DETAIL L05D/L05E/L05F

A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VW	WA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL						
INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGIES NV. BUSINESS UNIT. ALL INFORMATION, CONFIDENTIAL AND PROPRIETARY INFORMATION OF THE APPLICABLE ENTITY AND/OR ITS AFFILIATES, USE OF THE INFORMATION IS RESTRICTED ACCORDING TO THE CONTRACT SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES NV. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT						
COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						
TITLE						
ELECTRICAL LIGHTING INSTALLATION DETAILS STANCHION ON POLE WITH CONCRETE FOUNDATION FOR HAZARDOUS AREA CLASSIFICATION "LO5"						
 				COMMONWEALTH LNG		
SCALE		CLIENT NUMBER		DRAWN BY		
PROJECT NUMBER		TECHNIP ENERGIES NUMBER		REVISION		
078051C		078051C-000-STD-1683-0001-9		A		

L06A/B/C/D/E/F/G/H/I



DETAIL L06G/L06H/L06I
Fixture mounted on concrete

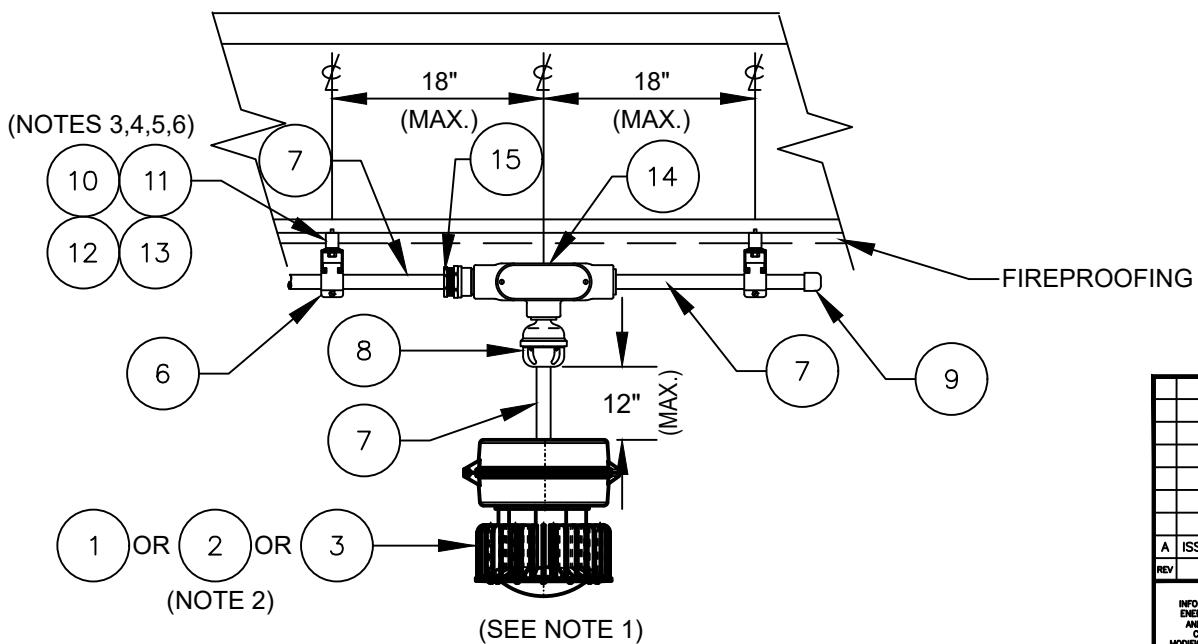


**DETAIL L06A/L06C/L06E
Fixture mounted on steel**

NOTES:

1. FOR MOUNTING HEIGHT SEE PLAN DWG. 078051C-1000-DW-1632.
 2. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65.
 3. FOR INSTALLATION OF HILTI STUD STRUCTURAL STEEL MUST BE AT LEAST 5/16" THICK. LOCATE STUD AT LEAST 1/4" MINIMUM FROM EDGE OF STEEL.
 4. FIREPROOFING, WHEN PRESENT, TO BE REMOVED AND REPAIRED AFTER CHANNEL INSTALLATION.
 5. PRE-DRILLED HOLE MUST BE CLEAR OF ALL DEBRIS, WATER, OIL, ETC. PRIOR TO INSTALLATION OF STUD.
 6. INSTALL 3/8" FLANGE NUT USING HILTI RECOMMENDED TORQUE SETTING.
 7. ITEM 11 SHALL BE USED IF THE LIGHTING FIXTURE IS LOCATED AT THE END OF THE CIRCUIT.
 8. FOR "T" FITTING SIZE REFER TO NOTE SHEET, CHART 1 AND CHART 2 ON SHEET 3

ITEM	L06A QTY	L06B QTY	L06C QTY	L06D QTY	L06E QTY	L06F QTY	L06G QTY	L06H QTY	L06I QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE
1	1	1	-	-	-	-	1	-	-	EA	LED, CHAMP VMV, PENDANT MOUNT, 29W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGH990035
2	-	-	1	1	-	-	-	1	-	EA	LED, CHAMP VMV, PENDANT MOUNT, 41W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGH990036
3	-	-	-	-	1	1	-	-	1	EA	LED, CHAMP VMV, PENDANT MOUNT, 54W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGH990037
4	2	-	2	-	2	-	-	-	-	EA	STUD, THREADED, 3/8", X-BT-MR W10/15 SN 8, WITH NUT, 316 STAINLESS STEEL	16HWRX260009
5	2	-	2	-	2	-	2	2	2	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED	16STUS060064
6	2	2	2	2	2	2	2	2	2	EA	CONDUIT STRAP, 3/4" SS WITH SS6 HARDWARE, USE WITH 1 5/8" STRUT CHANNEL	16STUA260014
7	3	3	3	3	3	3	3	3	3	FT	CONDUIT 3/4", RIGID GALVANIZED STEEL	16CONS050020
8	1	1	1	1	1	1	1	1	1	EA	HANGER, FIXTURE, FLEXIBLE, MALLEABLE IRON, 3/4" NIPPLE, 3/4" STEAM	16LTGA050059
9	1	1	1	1	1	1	1	1	1	EA	CAP, CONDUIT, GALVANIZED RIGID, 3/4"	16CONA050330
10	-	2	-	2	-	2	-	-	-	FT	STRUT, HS-1-5/8" X 1-5/8", 12 GAUGE, HDG	16STUS060056
11	-	2	-	2	-	2	-	-	-	EA	STUD, THREADED, 8MM, X-BT-GR M8/7 SN 8, W/O NUT, 316 STAINLESS STEEL	16HWRX260098
12	-	2	-	2	-	2	-	-	-	EA	STAND-OFF ADAPTOR, HILTI, M8-MF 25, 1" LONG, WITH NUT, HDG	16HTLX990001
13	-	4	-	4	-	4	-	-	-	EA	PLATE, MQZ-L9-F	16HTLX990003
14	1	1	1	1	1	1	1	1	1	EA	FITTING, CONDUIT BODY 3/4", TYPE "T", FORM 8, IRON ALLOY WITH COVER AND GASKET	16CONF150181
15	1	1	1	1	1	1	1	1	1	EA	UNION, CONDUIT, 3/4", TYPE "UNY" MALE/FEMALE	16CONF990203
16	-	-	-	-	-	-	2	2	2	EA	EXPANSION ANCHOR, 3/8" x 1-1/2", 316 STAINLESS STEEL, WITH FLAT WASHER AND NUT	16HWRX260166



DETAIL L06B/L06D/L06F

A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APPR
CONFIDENTIAL						
INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGIES NV. BUSINESS UNIT AND EMBODIES CONFIDENTIAL AND PROPRIETARY INFORMATION OF THE APPLICABLE ENTITY AND/OR ITS CLIENT. USE OF THE INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED BY THE CONTRACTING PARTIES. ENERGIES NV. BUSINESS UNIT RESERVES THE RIGHT TO LIMIT, RESTRICT, OR PROHIBIT ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT	COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA					
TITLE	ELECTRICAL LIGHTING INSTALLATION DETAILS PENDANT MOUNTED L. FIXTURE ON STEEL STRUCTURE/CONCRETE FOR HAZARDOUS AREA CLASSIFICATION "LO6"					
 TEN <small>TECHNIP ENERGIES</small>		 COMMONWEALTH <small>LNG</small>				
SCALE	CLIENT NUMBER			DRAWN BY		
				FV		
PROJECT NUMBER	TECHNIP ENERGIES NUMBER			REVISION		
078051C	078051C-000-STD-1683-0001-10			A		

A	B	C	D	E	F	G	H	J	K																																																																																																																																																																																																																													
L07A/B/C/D/E/F/G/H/I									TPENG ITEM CODE																																																																																																																																																																																																																													
									16LTGC990031																																																																																																																																																																																																																													
<table border="1"> <thead> <tr> <th>ITEM</th><th>L07A QTY</th><th>L07B QTY</th><th>L07C QTY</th><th>L07D QTY</th><th>L07E QTY</th><th>L07F QTY</th><th>L07G QTY</th><th>L07H QTY</th><th>L07I QTY</th><th>UNIT</th><th>BILL OF MATERIAL</th><th>TPENG ITEM CODE</th></tr> </thead> <tbody> <tr><td>1</td><td>1</td><td>1</td><td>-</td><td>-</td><td>-</td><td>-</td><td>1</td><td>-</td><td>-</td><td>EA</td><td>LED, CHAMP VMV, CEILING MOUNT, 29W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB</td><td>16LTGC990031</td></tr> <tr><td>2</td><td>-</td><td>-</td><td>1</td><td>1</td><td>-</td><td>-</td><td>-</td><td>1</td><td>-</td><td>EA</td><td>LED, CHAMP VMV, CEILING MOUNT, 41W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB</td><td>16LTGC990032</td></tr> <tr><td>3</td><td>-</td><td>-</td><td>-</td><td>-</td><td>1</td><td>1</td><td>-</td><td>-</td><td>1</td><td>EA</td><td>LED, CHAMP VMV, CEILING MOUNT, 54W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB</td><td>16LTGC990033</td></tr> <tr><td>4</td><td>4</td><td>-</td><td>4</td><td>-</td><td>4</td><td>-</td><td>2</td><td>2</td><td>2</td><td>FT</td><td>STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED</td><td>16STUS060064</td></tr> <tr><td>5</td><td>4</td><td>-</td><td>4</td><td>-</td><td>4</td><td>-</td><td>-</td><td>-</td><td>-</td><td>EA</td><td>STUD, THREADED, 3/8", X-BT-MR W10/15 SN 8, WITH NUT, 316 STAINLESS STEEL</td><td>16HWRX260009</td></tr> <tr><td>6</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>-</td><td>-</td><td>-</td><td>EA</td><td>MACHINE BOLT 1/4" X 1 1/2", HEX HEAD NC THREADS 316 STAINLESS STEEL</td><td>16HWRX260044</td></tr> <tr><td>7</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>-</td><td>-</td><td>-</td><td>EA</td><td>WASHER, FLAT 1/4" 316 STAINLESS STEEL</td><td>16HWRX260060</td></tr> <tr><td>8</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>-</td><td>-</td><td>-</td><td>EA</td><td>WASHER, LOCK 1/4" 316 STAINLESS STEEL</td><td>16HWRX260069</td></tr> <tr><td>9</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>-</td><td>-</td><td>-</td><td>EA</td><td>SPRING NUT 1/4-20 316SS</td><td>16HWRX260006</td></tr> <tr><td>10</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>FT</td><td>CONDUIT 3/4", RIGID GALVANIZED STEEL</td><td>16CONS050020</td></tr> <tr><td>11</td><td>-</td><td>4</td><td>-</td><td>4</td><td>-</td><td>4</td><td>-</td><td>-</td><td>-</td><td>FT</td><td>STRUT, HS-1-5/8" X 1-5/8", 12 GAUGE, HDG</td><td>16STUS060056</td></tr> <tr><td>12</td><td>-</td><td>4</td><td>-</td><td>4</td><td>-</td><td>4</td><td>-</td><td>-</td><td>-</td><td>EA</td><td>STUD, THREADED, 8MM, X-BT-GR M8/7 SN 8, W/O NUT, 316 STAINLESS STEEL</td><td>16HWRX260098</td></tr> <tr><td>13</td><td>-</td><td>4</td><td>-</td><td>4</td><td>-</td><td>4</td><td>-</td><td>-</td><td>-</td><td>EA</td><td>STAND-OFF ADAPTOR, HILTI, M8-MF 25, 1" LONG, WITH NUT, HDG</td><td>16HLTX990001</td></tr> <tr><td>14</td><td>-</td><td>4</td><td>-</td><td>4</td><td>-</td><td>4</td><td>-</td><td>-</td><td>-</td><td>EA</td><td>PLATE, MQZ-L9-F</td><td>16HLTX990003</td></tr> <tr><td>15</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>3</td><td>3</td><td>3</td><td>EA</td><td>EXPANSION ANCHOR, 3/8" x 1-1/2", 316 STAINLESS STEEL, WITH FLAT WASHER AND NUT</td><td>16HWRX260166</td></tr> <tr><td>16</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>EA</td><td>CONDUIT STRAP, 3/4" SS WITH SS6 HARDWARE, USE WITH 1 5/8" STRUT CHANNEL</td><td>16STUA260014</td></tr> </tbody> </table>									ITEM	L07A QTY	L07B QTY	L07C QTY	L07D QTY	L07E QTY	L07F QTY	L07G QTY	L07H QTY	L07I QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE	1	1	1	-	-	-	-	1	-	-	EA	LED, CHAMP VMV, CEILING MOUNT, 29W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGC990031	2	-	-	1	1	-	-	-	1	-	EA	LED, CHAMP VMV, CEILING MOUNT, 41W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGC990032	3	-	-	-	-	1	1	-	-	1	EA	LED, CHAMP VMV, CEILING MOUNT, 54W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGC990033	4	4	-	4	-	4	-	2	2	2	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED	16STUS060064	5	4	-	4	-	4	-	-	-	-	EA	STUD, THREADED, 3/8", X-BT-MR W10/15 SN 8, WITH NUT, 316 STAINLESS STEEL	16HWRX260009	6	2	2	2	2	2	2	-	-	-	EA	MACHINE BOLT 1/4" X 1 1/2", HEX HEAD NC THREADS 316 STAINLESS STEEL	16HWRX260044	7	2	2	2	2	2	2	-	-	-	EA	WASHER, FLAT 1/4" 316 STAINLESS STEEL	16HWRX260060	8	2	2	2	2	2	2	-	-	-	EA	WASHER, LOCK 1/4" 316 STAINLESS STEEL	16HWRX260069	9	2	2	2	2	2	2	-	-	-	EA	SPRING NUT 1/4-20 316SS	16HWRX260006	10	2	2	2	2	2	2	2	2	2	FT	CONDUIT 3/4", RIGID GALVANIZED STEEL	16CONS050020	11	-	4	-	4	-	4	-	-	-	FT	STRUT, HS-1-5/8" X 1-5/8", 12 GAUGE, HDG	16STUS060056	12	-	4	-	4	-	4	-	-	-	EA	STUD, THREADED, 8MM, X-BT-GR M8/7 SN 8, W/O NUT, 316 STAINLESS STEEL	16HWRX260098	13	-	4	-	4	-	4	-	-	-	EA	STAND-OFF ADAPTOR, HILTI, M8-MF 25, 1" LONG, WITH NUT, HDG	16HLTX990001	14	-	4	-	4	-	4	-	-	-	EA	PLATE, MQZ-L9-F	16HLTX990003	15	-	-	-	-	-	-	3	3	3	EA	EXPANSION ANCHOR, 3/8" x 1-1/2", 316 STAINLESS STEEL, WITH FLAT WASHER AND NUT	16HWRX260166	16	2	2	2	2	2	2	2	2	2	EA	CONDUIT STRAP, 3/4" SS WITH SS6 HARDWARE, USE WITH 1 5/8" STRUT CHANNEL	16STUA260014	16STUA260014
ITEM	L07A QTY	L07B QTY	L07C QTY	L07D QTY	L07E QTY	L07F QTY	L07G QTY	L07H QTY	L07I QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE																																																																																																																																																																																																																										
1	1	1	-	-	-	-	1	-	-	EA	LED, CHAMP VMV, CEILING MOUNT, 29W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGC990031																																																																																																																																																																																																																										
2	-	-	1	1	-	-	-	1	-	EA	LED, CHAMP VMV, CEILING MOUNT, 41W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGC990032																																																																																																																																																																																																																										
3	-	-	-	-	1	1	-	-	1	EA	LED, CHAMP VMV, CEILING MOUNT, 54W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGC990033																																																																																																																																																																																																																										
4	4	-	4	-	4	-	2	2	2	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED	16STUS060064																																																																																																																																																																																																																										
5	4	-	4	-	4	-	-	-	-	EA	STUD, THREADED, 3/8", X-BT-MR W10/15 SN 8, WITH NUT, 316 STAINLESS STEEL	16HWRX260009																																																																																																																																																																																																																										
6	2	2	2	2	2	2	-	-	-	EA	MACHINE BOLT 1/4" X 1 1/2", HEX HEAD NC THREADS 316 STAINLESS STEEL	16HWRX260044																																																																																																																																																																																																																										
7	2	2	2	2	2	2	-	-	-	EA	WASHER, FLAT 1/4" 316 STAINLESS STEEL	16HWRX260060																																																																																																																																																																																																																										
8	2	2	2	2	2	2	-	-	-	EA	WASHER, LOCK 1/4" 316 STAINLESS STEEL	16HWRX260069																																																																																																																																																																																																																										
9	2	2	2	2	2	2	-	-	-	EA	SPRING NUT 1/4-20 316SS	16HWRX260006																																																																																																																																																																																																																										
10	2	2	2	2	2	2	2	2	2	FT	CONDUIT 3/4", RIGID GALVANIZED STEEL	16CONS050020																																																																																																																																																																																																																										
11	-	4	-	4	-	4	-	-	-	FT	STRUT, HS-1-5/8" X 1-5/8", 12 GAUGE, HDG	16STUS060056																																																																																																																																																																																																																										
12	-	4	-	4	-	4	-	-	-	EA	STUD, THREADED, 8MM, X-BT-GR M8/7 SN 8, W/O NUT, 316 STAINLESS STEEL	16HWRX260098																																																																																																																																																																																																																										
13	-	4	-	4	-	4	-	-	-	EA	STAND-OFF ADAPTOR, HILTI, M8-MF 25, 1" LONG, WITH NUT, HDG	16HLTX990001																																																																																																																																																																																																																										
14	-	4	-	4	-	4	-	-	-	EA	PLATE, MQZ-L9-F	16HLTX990003																																																																																																																																																																																																																										
15	-	-	-	-	-	-	3	3	3	EA	EXPANSION ANCHOR, 3/8" x 1-1/2", 316 STAINLESS STEEL, WITH FLAT WASHER AND NUT	16HWRX260166																																																																																																																																																																																																																										
16	2	2	2	2	2	2	2	2	2	EA	CONDUIT STRAP, 3/4" SS WITH SS6 HARDWARE, USE WITH 1 5/8" STRUT CHANNEL	16STUA260014																																																																																																																																																																																																																										
<p>DETAIL L07A/L07C/L07E FIXTURE MOUNTED ON STEEL</p>									16STUS060056																																																																																																																																																																																																																													
									16HWRX260098																																																																																																																																																																																																																													
									16HLTX990001																																																																																																																																																																																																																													
<p>DETAIL L07G/L07H/L07I FIXTURE MOUNTED ON CONCRETE</p> <p>Detail A</p>									16HLTX990003																																																																																																																																																																																																																													
<p>NOTES:</p> <ol style="list-style-type: none"> FOR MOUNTING HEIGHT SEE PLAN DWG. 078051C-1000-DW-1632. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65. FOR INSTALLATION OF HILTI STUD STRUCTURAL STEEL MUST BE AT LEAST 5/16" THICK. LOCATE STUD AT LEAST 1/4" MINIMUM FROM EDGE OF STEEL. FIREPROOFING, WHEN PRESENT, TO BE REMOVED AND REPAIRED AFTER CHANNEL INSTALLATION. PRE-DRILLED HOLE MUST BE CLEAR OF ALL DEBRIS, WATER, OIL, ETC. PRIOR TO INSTALLATION OF STUD. INSTALL 3/8" FLANGE NUT USING HILTI RECOMMENDED TORQUE SETTING. FOR "T" FITTING SIZE REFER TO NOTE SHEET, CHART 1 AND CHART 2 ON SHEET 3. 									16HWRX260166																																																																																																																																																																																																																													
<p>CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. EXCEPT AS EXPRESSLY CONVECTED IN WRITING BY THE CONTRACTING PARTIES, THE INFORMATION CONTAINED HEREIN IS UNPUBLISHED PROPRIETARY INFORMATION WHICH IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES INC. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.</p> <p>CLIENT: COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA</p> <p>TITLE: ELECTRICAL LIGHTING INSTALLATION DETAILS CEILING MOUNTED L. FIXTURE ON STEEL STRUCTURE/CONCRETE FOR HAZARDOUS AREA CLASSIFICATION "L07"</p> <p>SCALE: FV DRAWN BY: PROJECT NUMBER: 078051C TECHNIP ENERGIES NUMBER: 078051C-000-STD-1683-0001-11 REVISION: A</p>									16HLTX990001																																																																																																																																																																																																																													

L08A/B/C/D/E/F/G/H/I

**DETAIL L08A/L08C/L08E
FIXTURE MOUNTED ON STEEL**

**DETAIL L08G/L08H/L08I
FIXTURE MOUNTED ON CONCRETE OR COLUMN**

**DETAIL L08B/L08D/L08F
FIXTURE MOUNTED ON FIREPROOFED STEEL**

ITEMS LISTED IN BILL OF MATERIAL:

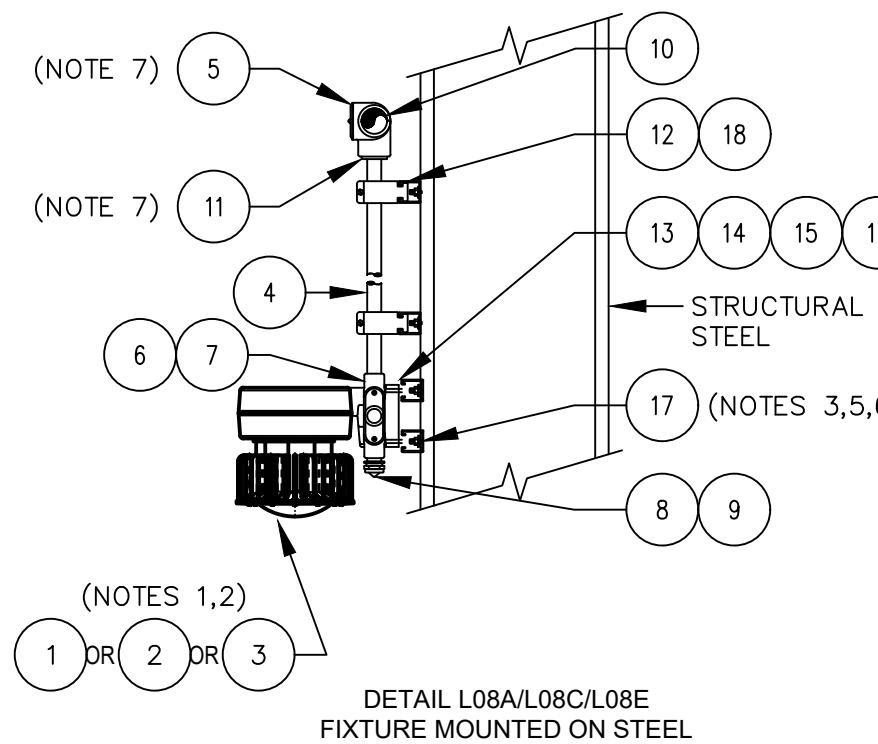
ITEM	L08A QTY	L08B QTY	L08C QTY	L08D QTY	L08E QTY	L08F QTY	L08G QTY	L08H QTY	L08I QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE
1	1	1	-	-	-	-	1	-	-	EA	LED, CHAMP VMV, WALL MOUNT, 29W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGW990047
2	-	-	1	1	-	-	-	1	-	EA	LED, CHAMP VMV, WALL MOUNT, 41W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGW990048
3	-	-	-	-	1	1	-	-	1	EA	LED, CHAMP VMV, WALL MOUNT, 54W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGW990049
4	3	3	3	3	3	3	3	3	3	FT	CONDUIT 3/4", RIGID GALVANIZED STEEL	16CONS050020
5	1	1	1	1	1	1	1	1	1	EA	FITTING, CONDUIT BODY 1 1/2", TYPE "T", FORM 8, IRON ALLOY WITH COVER AND GASKET	16CONF150185
6	1	1	1	1	1	1	1	1	1	EA	FITTING, CONDUIT BODY 3/4", TYPE "TB", FORM 8, IRON ALLOY	16CONF150189
7	1	1	1	1	1	1	1	1	1	EA	UNION, CONDUIT, 3/4", TYPE "UNY" MALE/FEMALE	16CONF990203
8	1	1	1	1	1	1	1	1	1	EA	REDUCER, CONDUIT, 3/4" X 1/2"	16CONF140152
9	1	1	1	1	1	1	1	1	1	EA	BREATHER, DRAIN, COMBINATION, 1/2"	16DRNB080001
10	2	2	2	2	2	2	2	2	2	EA	REDUCER, CONDUIT, 1 1/2" X 1"	16CONF140136
11	1	1	1	1	1	1	1	1	1	EA	REDUCER, CONDUIT, 1 1/2" X 3/4"	16CONF140138
12	4	-	4	-	4	-	4	4	4	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED	16STUS060064
13	4	4	4	4	4	4	4	4	4	EA	MACHINE BOLT 1/4" X 1 1/2", HEX HEAD NC THREADS 316 STAINLESS STEEL	16HWRX260044
14	4	4	4	4	4	4	4	4	4	EA	SPRING NUT 1/4-20 316SS	16HWRX260006
15	4	4	4	4	4	4	4	4	4	EA	WASHER, FLAT 1/4" 316 STAINLESS STEEL	16HWRX260060
16	4	4	4	4	4	4	4	4	4	EA	WASHER, LOCK 1/4" 316 STAINLESS STEEL	16HWRX260069
17	8	-	8	-	8	-	8	8	8	EA	STUD, THREADED, 3/8", X-BT-MR W10/15 SN 8, WITH NUT, 316 STAINLESS STEEL	16HWRX260009
18	2	2	2	2	2	2	2	2	2	EA	CONDUIT STRAP, 3/4" SS WITH SS6 HARDWARE, USE WITH 1 5/8" STRUT CHANNEL	16STUA260014
19	-	4	-	4	-	4	-	-	-	EA	STRUT, HS-1-5/8" X 1-5/8", 12 GAUGE, HDG	16STUS060056
20	-	8	-	8	-	8	-	-	-	EA	STUD, THREADED, 8MM, X-BT-GR M8/7 SN 8, W/O NUT, 316 STAINLESS STEEL	16HWRX260098
21	-	8	-	8	-	8	-	-	-	EA	STAND-OFF ADAPTOR, HILTI, M8-MF 25, 1" LONG, WITH NUT, HDG	16HLTX990001
22	-	8	-	8	-	8	-	-	-	EA	PLATE, MQZ-L9-F	16HLTX990003
23	-	-	-	-	-	-	2	2	2	EA	EXPANSION ANCHOR, 3/8" x 1-1/2", 316 STAINLESS STEEL, WITH FLAT WASHER AND NUT	16HWRX260166

NOTES:

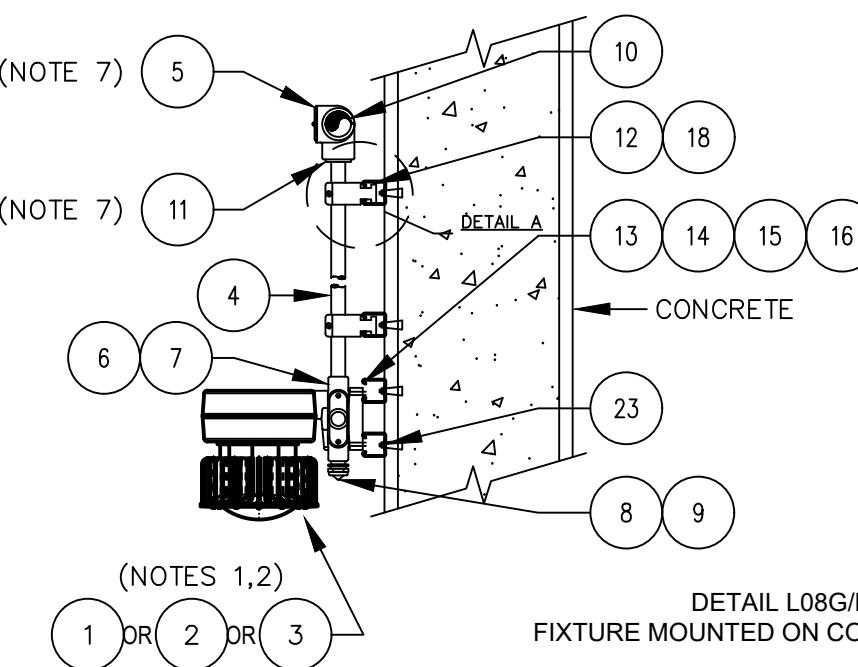
- FOR MOUNTING HEIGHT SEE PLAN DWG. 078051C-1000-DW-1632.
- FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65.
- FOR INSTALLATION OF HILTI STUD STRUCTURAL STEEL MUST BE AT LEAST 5/16" THICK. LOCATE STUD AT LEAST 1/4" MINIMUM FROM EDGE OF STEEL.
- FIREPROOFING, WHEN PRESENT, TO BE REMOVED AND REPAIRED AFTER CHANNEL INSTALLATION.
- PRE-DRILLED HOLE MUST BE CLEAR OF ALL DEBRIS, WATER, OIL, ETC. PRIOR TO INSTALLATION OF STUD.
- INSTALL 3/8" FLANGE NUT USING HILTI RECOMMENDED TORQUE SETTING.
- CONDUIT FITTING SIZE MAY VARY. ADJUST SIZE AS REQUIRED.
- FOR "T" FITTING SIZE REFER TO NOTE SHEET, CHART 1 AND CHART 2 ON SHEET 3.

NOTES

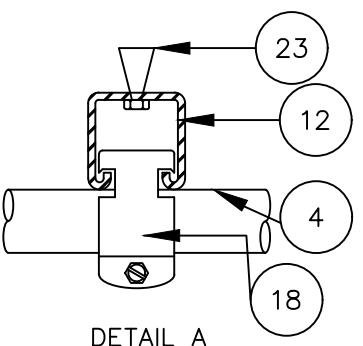
1. FOR MOUNTING HEIGHT SEE PLAN DWG. 078051C-1000-DW-1632.
 2. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65.
 3. FOR INSTALLATION OF HILTI STUD STRUCTURAL STEEL MUST BE AT LEAST 5/16" THICK. LOCATE STUD AT LEAST 1/4" MINIMUM FROM EDGE OF STEEL.
 4. FIREPROOFING, WHEN PRESENT, TO BE REMOVED AND REPAIRED AFTER CHANNEL INSTALLATION.
 5. PRE-DRILLED HOLE MUST BE CLEAR OF ALL DEBRIS, WATER, OIL, ETC. PRIOR TO INSTALLATION OF STUD.
 6. INSTALL 3/8" FLANGE NUT USING HILTI RECOMMENDED TORQUE SETTING.
 7. CONDUIT FITTING SIZE MAY VARY. ADJUST SIZE AS REQUIRED.
 8. FOR "T" FITTING SIZE REFER TO NOTE SHEET, CHART 1 AND CHART 2 ON SHEET 3.



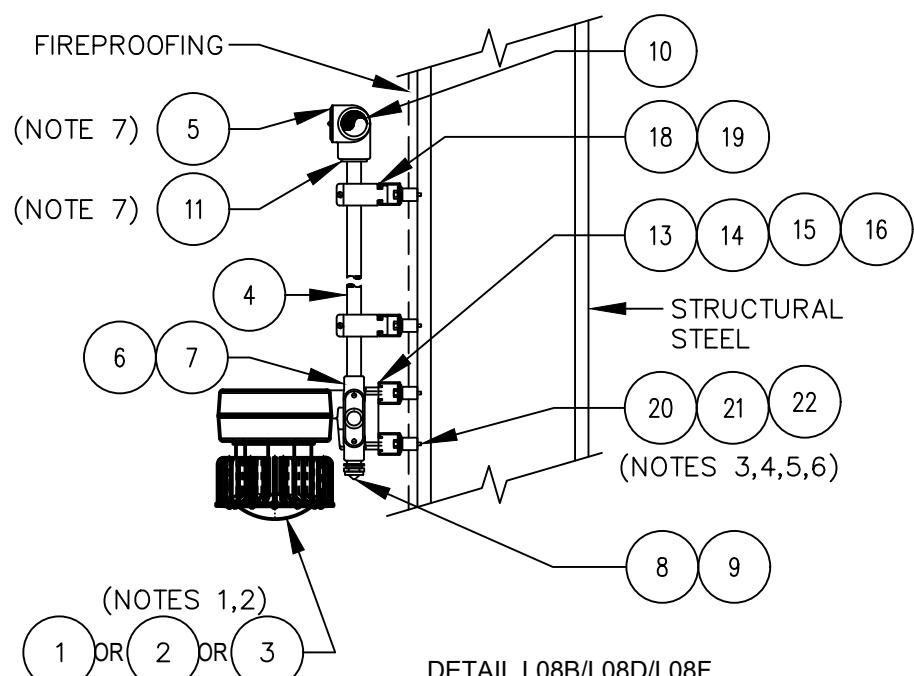
**DETAIL L08A/L08C/L08E
Fixture mounted on steel**



DETAIL L08G/L08H/L08I
Fixture mounted on concrete or column



DETAIL A



DETAIL L08B/L08D/L08F
FIXTURE MOUNTED ON FIREPROOFED STEEL

A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL						
INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGIES GROUP. UNIT AND SUBSIDIARY NAMES AND LOGOS ARE INFORMATION OWNED BY THE GROUP, ENTRUSTED TO AND/OR ITS CLIENT. USE OF THIS INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED BY THE CONTRACT. TECHNIP ENERGIES N.V. AND ITS AFFILIATES DISCLAIM ALL AND ANY LIABILITY FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT						
COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						
TITLE						
ELECTRICAL LIGHTING						
INSTALLATION DETAILS WALL MOUNTED L. FIXTURE ON STEEL STRUCTURE/CONCRETE FOR HAZARDOUS AREA CLASSIFICATION "L08"						
 			COMMONWEALTH LNG			
SCALE	CLIENT NUMBER			DRAWN BY		
				FV		
PROJECT NUMBER	TECHNIP ENERGIES NUMBER			REVISION		
078051C	078051C-000-STD-1683-0001-12			A		

A	B	C	D	E	F	G	H	J	K																				
L09A/B/C/D/E/F/G/H/I									TPENG ITEM CODE																				
									16LTGF990051 16LTGF990052 16LTGF990053 16LTGB990008 16LTGB990007 16STUS060003 16HWRX260088 16HWRX260002 16HWRX260081 16HWRX260012 16CONS110011 16CONF110171 16CONF050331 16HWRX260009 16STUS060056 16HWRX260098 16HLTX990001 16HLTX990003 16HWRX260169 16STUA120068 16STUA120069 16STUA260014																				
<p>ITEM L09A QTY L09B QTY L09C QTY L09D QTY L09E QTY L09F QTY L09G QTY L09H QTY L09I QTY UNIT BILL OF MATERIAL</p>																													
1	1	1	-	-	-	-	1	-	-	EA	LED, CHAMP FMVA FLOOD, YOKE MOUNT, 67W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGF990051																	
2	-	-	1	1	-	-	-	1	-	EA	LED, CHAMP FMVA FLOOD, YOKE MOUNT, 82W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGF990052																	
3	-	-	-	-	1	1	-	-	1	EA	LED, CHAMP FMVA FLOOD, YOKE MOUNT, 93W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGF990053																	
4	1	1	1	1	1	1	1	1	1	EA	TENON TOPPER, POLE SET SCREWS AND MOUNTING HARDWARE, FLOODLIGHT	16LTGB990008																	
5	1	1	1	1	1	1	1	1	1	EA	BRACKET, RIGHT ANGLE, FOR FLOOD LIGHT	16LTGB990007																	
6	2	-	2	-	2	-	2	2	2	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SOLID	16STUS060003																	
7	4	4	4	4	4	4	4	4	4	EA	MACHINE BOLT 1/2" X 1-1/2", HEX HEAD NC THREADS 316 STAINLESS STEEL	16HWRX260088																	
8	4	4	4	4	4	4	4	4	4	EA	SPRING NUT 1/2-13 316SS	16HWRX260002																	
9	4	4	4	4	4	4	4	4	4	EA	WASHER, FLAT 1/2" 316 STAINLESS STEEL	16HWRX260081																	
10	4	4	4	4	4	4	4	4	4	EA	WASHER, LOCK 1/2", 316 STAINLESS STEEL	16HWRX260012																	
11	3	3	3	3	3	3	3	3	3	FT	CONDUIT 3/4", FLEXIBLE LIQUIDTIGHT, PVC JACKET, STEEL CORE, TYPE UA/LA-GRAY	16CONS110011																	
12	2	2	2	2	2	2	2	2	2	EA	CONNECTOR, 3/4", LIQUIDTIGHT INSULATED THROAT, TYPE STB	16CONF110171																	
13	1	1	1	1	1	1	1	1	1	EA	CONDULET, OUTLET BOX, 3/4", TYPE "GUAB", GALVANIZED, W/ COVER AND GASKET	16CONF050331																	
14	4	-	4	-	4	-	-	-	-	EA	STUD, THREADED, 3/8", X-BT-MR W10/15 SN 8, WITH NUT, 316 STAINLESS STEEL	16HWRX260009																	
15	-	2	-	2	-	2	-	-	-	FT	STRUT, HS-1-5/8" X 1-5/8", 12 GAUGE, HDG	16STUS060056																	
16	-	4	-	4	-	4	-	-	-	EA	STUD, THREADED, 8MM, X-BT-GR M8/7 SN 8, W/O NUT, 316 STAINLESS STEEL	16HWRX260098																	
17	-	4	-	4	-	4	-	-	-	EA	STAND-OFF ADAPTOR, HILTI, M8-MF 25, 1" LONG, WITH NUT, HDG	16HLTX990001																	
18	-	4	-	4	-	4	-	-	-	EA	PLATE, MQZ-L9-F	16HLTX990003																	
19	-	-	-	-	-	-	4	4	4	EA	EXPANSION ANCHOR, 3/8" x 1-1/2", 316 STAINLESS STEEL, WITH FLAT WASHER AND NUT	16HWRX260169																	
20	1	1	1	1	1	1	-	-	-	EA	BEAM CLAMP FOR 3/4" CHANNEL	16STUA120068																	
21	1	1	1	1	1	1	-	-	-	EA	CONDUIT HANGER FOR 3/4" FOR BEAM CLAMP 3/4"	16STUA120069																	
22	-	-	-	-	-	-	1	1	1	EA	CONDUIT STRAP, 3/4" SS WITH SS6 HARDWARE, USE WITH 1 5/8" STRUT CHANNEL	16STUA260014																	
									4																				
									5																				
									6																				
<p>NOTES:</p> <ol style="list-style-type: none"> FOR MOUNTING HEIGHT SEE PLAN DWG. 078051C-1000-DW-1632. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65. FOR INSTALLATION OF HILTI STUD STRUCTURAL STEEL MUST BE AT LEAST 5/16" THICK. LOCATE STUD AT LEAST 1/4" MINIMUM FROM EDGE OF STEEL. FIREPROOFING, WHEN PRESENT, TO BE REMOVED AND REPAIRED AFTER CHANNEL INSTALLATION. PRE-DRILLED HOLE MUST BE CLEAR OF ALL DEBRIS, WATER, OIL, ETC. PRIOR TO INSTALLATION OF STUD. INSTALL 3/8" FLANGE NUT USING HILTI RECOMMENDED TORQUE SETTING. CONDUIT TO BE FIXED BY CONSTRUCTION CONTRACTOR. 									5																				
<p>DETAIL L09A/L09C/L09E FIXTURE MOUNTED ON STEEL</p>									5																				
<p>DETAIL L09G/L09H/L09I FIXTURE MOUNTED ON CONCRETE</p>									6																				
<p>DETAIL L09B/L09D/L09F FIXTURE MOUNTED ON FIREPROOFED STEEL</p>									6																				
<table border="1"> <tr> <td>A</td><td>ISSUED FOR REVIEW</td><td>10-02-2023</td><td>FV</td><td>LNW</td><td>VV</td><td>VVA</td><td></td><td></td><td></td></tr> <tr> <td>REV</td><td>REVISION DESCRIPTION</td><td>DATE</td><td>DRAWN</td><td>CHECKED</td><td>APPROVED</td><td>PROJ APR</td><td></td><td></td><td></td></tr> </table> <p>CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS EXCLUDED FROM THE INFORMATION CONTROLLED BY THE CONTRACTUAL AGREEMENTS OF THE CONTRACTOR AND/OR ITS CLIENT. USE OF THIS INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES NV, AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITY FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.</p> <p>CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA</p> <p>TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS FLOODLIGHT MOUNTED ON STEEL STRUCTURE/CONCRETE FOR HAZARDOUS AREA CLASSIFICATION "L09"</p> <p>SCALE CLIENT NUMBER DRAWN BY PROJECT NUMBER TECHNIP ENERGIES NUMBER REVISION</p> <p>078051C 078051C-000-STD-1683-0001-13 A</p>									A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA				REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR				5
A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA																							
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR																							

A	B	C	D	E	F	G	H	J	K																																																																																										
L10A/B/C	BILL OF MATERIAL																																																																																																		
NOTES:																																																																																																			
1. ALL STEEL HARDWARE SHALL BE 316 STAINLESS STEEL UNLESS OTHERWISE SPECIFIED. 2. FINAL AIMING ANGLE SHALL BE DETERMINED AT SITE. 3. FOR MOUNTING HEIGHT SEE PLAN DWG. 078051C-1000-DW-1632. 4. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65. 5. SEE BULK MATERIAL MR (MATERIAL REQUISITION) FOR CABLE GLANDS AND JUNCTION BOXES DEFINITIONS. 6. FOR "T"- FITTING SIZE REFER TO NOTE SHEET, CHART 1 AND CHART 2 ON SHEET 3.																																																																																																			
<table border="1"> <thead> <tr> <th>ITEM</th><th>L10A QTY</th><th>L10B QTY</th><th>L10C QTY</th><th>UNIT</th><th>TPENG ITEM CODE</th></tr> </thead> <tbody> <tr> <td>1</td><td>1</td><td>-</td><td>-</td><td>EA</td><td>16LTGF990051</td></tr> <tr> <td>2</td><td>-</td><td>1</td><td>-</td><td>EA</td><td>16LTGF990052</td></tr> <tr> <td>3</td><td>-</td><td>-</td><td>1</td><td>EA</td><td>16LTGF990053</td></tr> <tr> <td>4</td><td>1</td><td>1</td><td>1</td><td>EA</td><td>16LTGB990008</td></tr> <tr> <td>5</td><td>1</td><td>1</td><td>1</td><td>EA</td><td>16CONF150187</td></tr> <tr> <td>6</td><td>1</td><td>1</td><td>1</td><td>EA</td><td>16CONF990201</td></tr> <tr> <td>7</td><td>2</td><td>2</td><td>2</td><td>EA</td><td>16CONF140143</td></tr> <tr> <td>8</td><td>3</td><td>3</td><td>3</td><td>FT</td><td>16STUS060003</td></tr> <tr> <td>9</td><td>2</td><td>2</td><td>2</td><td>EA</td><td>16STUA260048</td></tr> <tr> <td>10</td><td>10</td><td>10</td><td>10</td><td>FT</td><td>16CONS050023</td></tr> <tr> <td>11</td><td>2</td><td>2</td><td>2</td><td>FT</td><td>16SPTS060009</td></tr> <tr> <td>12</td><td>2</td><td>2</td><td>2</td><td>EA</td><td>16HWRX260122</td></tr> <tr> <td>13</td><td>4</td><td>4</td><td>4</td><td>EA</td><td>16HWRX260061</td></tr> <tr> <td>14</td><td>4</td><td>4</td><td>4</td><td>EA</td><td>16HWRX260050</td></tr> </tbody> </table>										ITEM	L10A QTY	L10B QTY	L10C QTY	UNIT	TPENG ITEM CODE	1	1	-	-	EA	16LTGF990051	2	-	1	-	EA	16LTGF990052	3	-	-	1	EA	16LTGF990053	4	1	1	1	EA	16LTGB990008	5	1	1	1	EA	16CONF150187	6	1	1	1	EA	16CONF990201	7	2	2	2	EA	16CONF140143	8	3	3	3	FT	16STUS060003	9	2	2	2	EA	16STUA260048	10	10	10	10	FT	16CONS050023	11	2	2	2	FT	16SPTS060009	12	2	2	2	EA	16HWRX260122	13	4	4	4	EA	16HWRX260061	14	4	4	4	EA	16HWRX260050
ITEM	L10A QTY	L10B QTY	L10C QTY	UNIT	TPENG ITEM CODE																																																																																														
1	1	-	-	EA	16LTGF990051																																																																																														
2	-	1	-	EA	16LTGF990052																																																																																														
3	-	-	1	EA	16LTGF990053																																																																																														
4	1	1	1	EA	16LTGB990008																																																																																														
5	1	1	1	EA	16CONF150187																																																																																														
6	1	1	1	EA	16CONF990201																																																																																														
7	2	2	2	EA	16CONF140143																																																																																														
8	3	3	3	FT	16STUS060003																																																																																														
9	2	2	2	EA	16STUA260048																																																																																														
10	10	10	10	FT	16CONS050023																																																																																														
11	2	2	2	FT	16SPTS060009																																																																																														
12	2	2	2	EA	16HWRX260122																																																																																														
13	4	4	4	EA	16HWRX260061																																																																																														
14	4	4	4	EA	16HWRX260050																																																																																														
<p style="text-align: center;">SECTION A-A</p>																																																																																																			
<table border="1"> <tr> <td>A</td><td>ISSUED FOR REVIEW</td><td>10-02-2023</td><td>FV</td><td>LNW</td><td>VV</td><td>VVA</td></tr> <tr> <td>REV</td><td>REVISION DESCRIPTION</td><td>DATE</td><td>DRAWN</td><td>CHECKED</td><td>APPROVED</td><td>PROJ APR</td></tr> </table> <p>CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS EXCLUDED FROM CONFIDENTIALITY INFORMATION BY THE CONTRACTUAL AGREEMENTS WITH THE COMPANY AND/OR ITS CLIENT. USE OF THIS INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES N.V. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.</p> <p>CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA</p> <p>TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS FLOODLIGHT MOUNTED ON HANDRAIL FOR HAZARDOUS AREA CLASSIFICATION "L10"</p> <p> TEN TECHNIP ENERGIES COMMONWEALTH LNG </p> <table border="1"> <tr> <td>SCALE</td><td>CLIENT NUMBER</td><td>DRAWN BY</td></tr> <tr> <td></td><td></td><td>FV</td></tr> <tr> <td>PROJECT NUMBER</td><td>TECHNIP ENERGIES NUMBER</td><td>REVISION</td></tr> <tr> <td>078051C</td><td>078051C-000-STD-1683-0001-14</td><td>A</td></tr> </table>										A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA	REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR	SCALE	CLIENT NUMBER	DRAWN BY			FV	PROJECT NUMBER	TECHNIP ENERGIES NUMBER	REVISION	078051C	078051C-000-STD-1683-0001-14	A																																																																
A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA																																																																																													
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR																																																																																													
SCALE	CLIENT NUMBER	DRAWN BY																																																																																																	
		FV																																																																																																	
PROJECT NUMBER	TECHNIP ENERGIES NUMBER	REVISION																																																																																																	
078051C	078051C-000-STD-1683-0001-14	A																																																																																																	

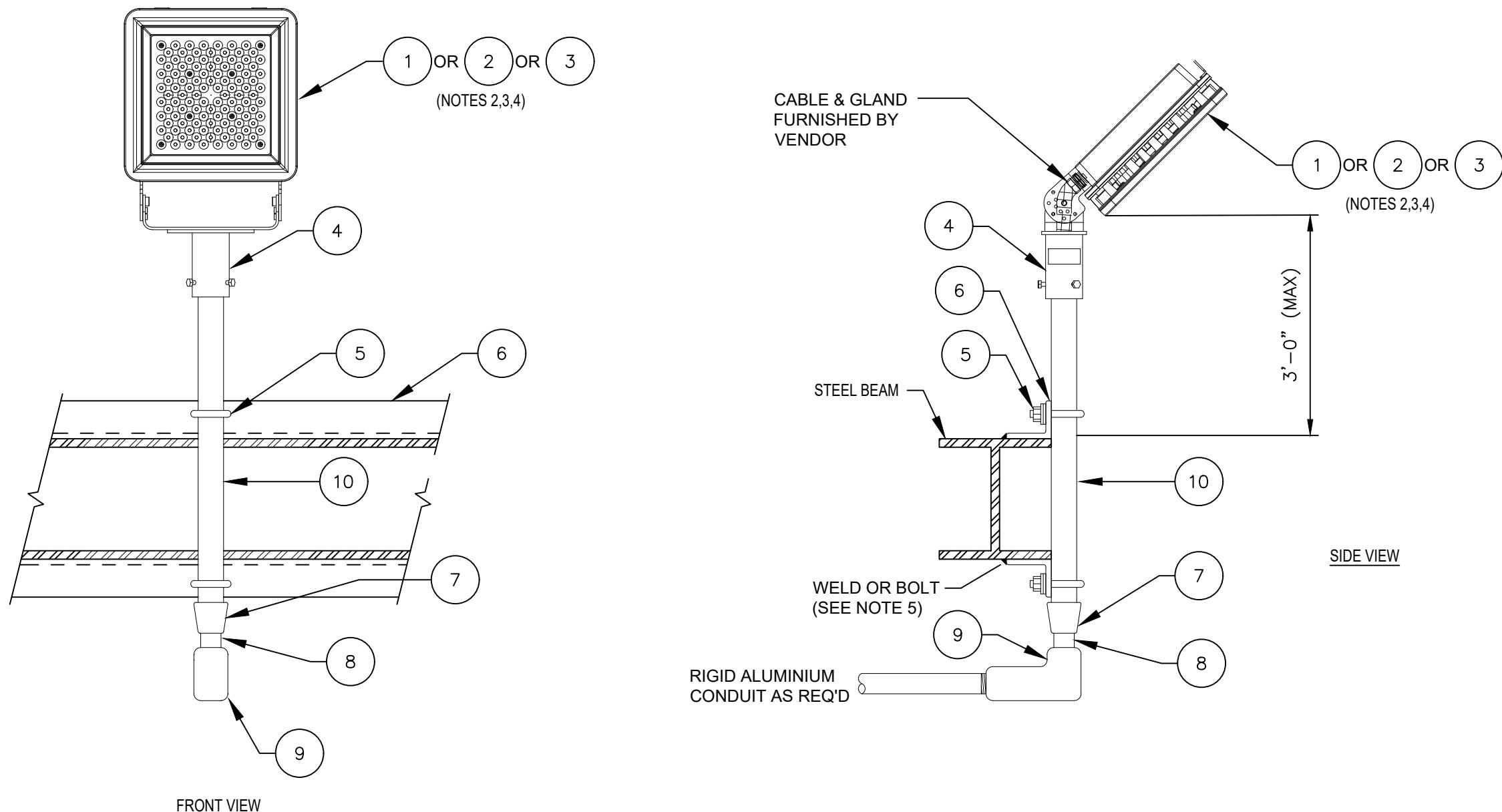
A | B | C | D | E | F | G | H | J | K

L11A/B/C

ITEM	L11A QTY	L11B QTY	L11C QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE
1	1	-	-	EA	LED, CHAMP FMVA FLOOD, YOKE MOUNT, 67W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGF990051
2	-	1	-	EA	LED, CHAMP FMVA FLOOD, YOKE MOUNT, 82W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGF990052
3	-	-	1	EA	LED, CHAMP FMVA FLOOD, YOKE MOUNT, 93W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGF990053
4	1	1	1	EA	TENON TOPPER, POLE SET SCREWS AND MOUNTING HARDWARE, FLOODLIGHT	16LTGB990008
5	2	2	2	EA	U-BOLT, 3/8" X 2", 2" PIPE, 316 STAINLESS STEEL	16HWRX260122
6	2	2	2	FT	STEEL, ANGLE, L3 X 3 X 1/4, ASTM A36, HDG	16SPTS060009
7	1	1	1	EA	ADAPTER, CONDUIT, MALE TO MALE, 2" X 3/4", GALVANIZED	16CONF050337
8	1	1	1	EA	NIPPLE, CONDUIT, 3/4" X CLOSE	16CONF990216
9	1	1	1	EA	FITTING, CONDUIT BODY 3/4", TYPE "LB", FORM 8, IRON ALLOY WITH COVER AND GASKET	16CONF150101
10	5	5	5	FT	CONDUIT 2", RIGID GALVANIZED STEEL	16CONS050023

NOTES:

1. ALL STEEL HARDWARE SHALL BE 316 STAINLESS STEEL UNLESS OTHERWISE SPECIFIED.
2. FINAL AIMING ANGLE SHALL BE DETERMINED AT SITE.
3. FOR MOUNTING HEIGHT SEE PLAN DWG. 078051C-1000-DW-1632.
4. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65.
5. WELDING OF CHANNEL TO STEEL MEMBER REQUIRE PRIOR OWNER'S APPROVAL.



A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS EXCLUDED FROM THE INFORMATION CONTROLLED BY THE CONTRACTUAL AGREEMENTS OF THE COMPANY AND/OR ITS CLIENT. USE OF THIS INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES INC. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS FLOODLIGHT MOUNTED ON STEEL BEAM FOR HAZARDOUS AREA CLASSIFICATION "L11"						
				DRAWN BY FV		
SCALE	CLIENT NUMBER					
PROJECT NUMBER	TECHNIP ENERGIES NUMBER				REVISION	
078051C	078051C-000-STD-1683-0001-15				A	

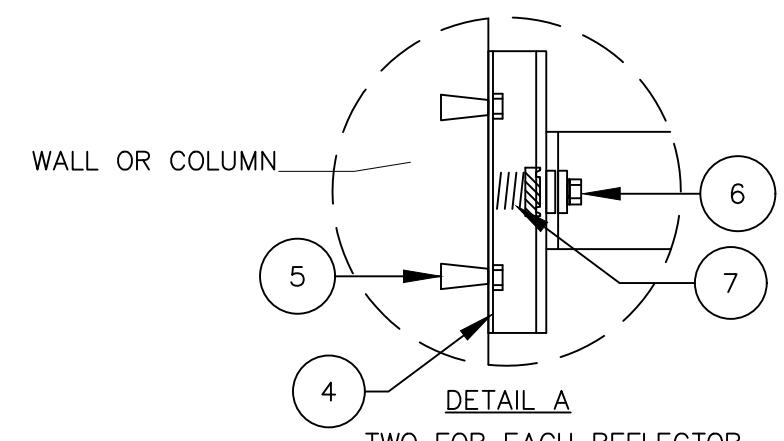
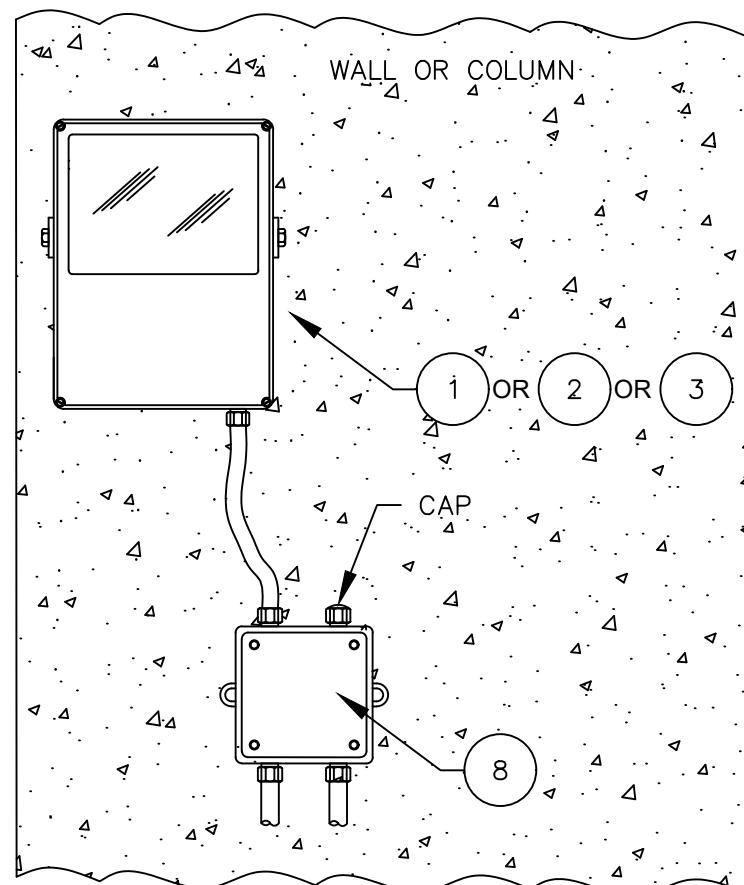
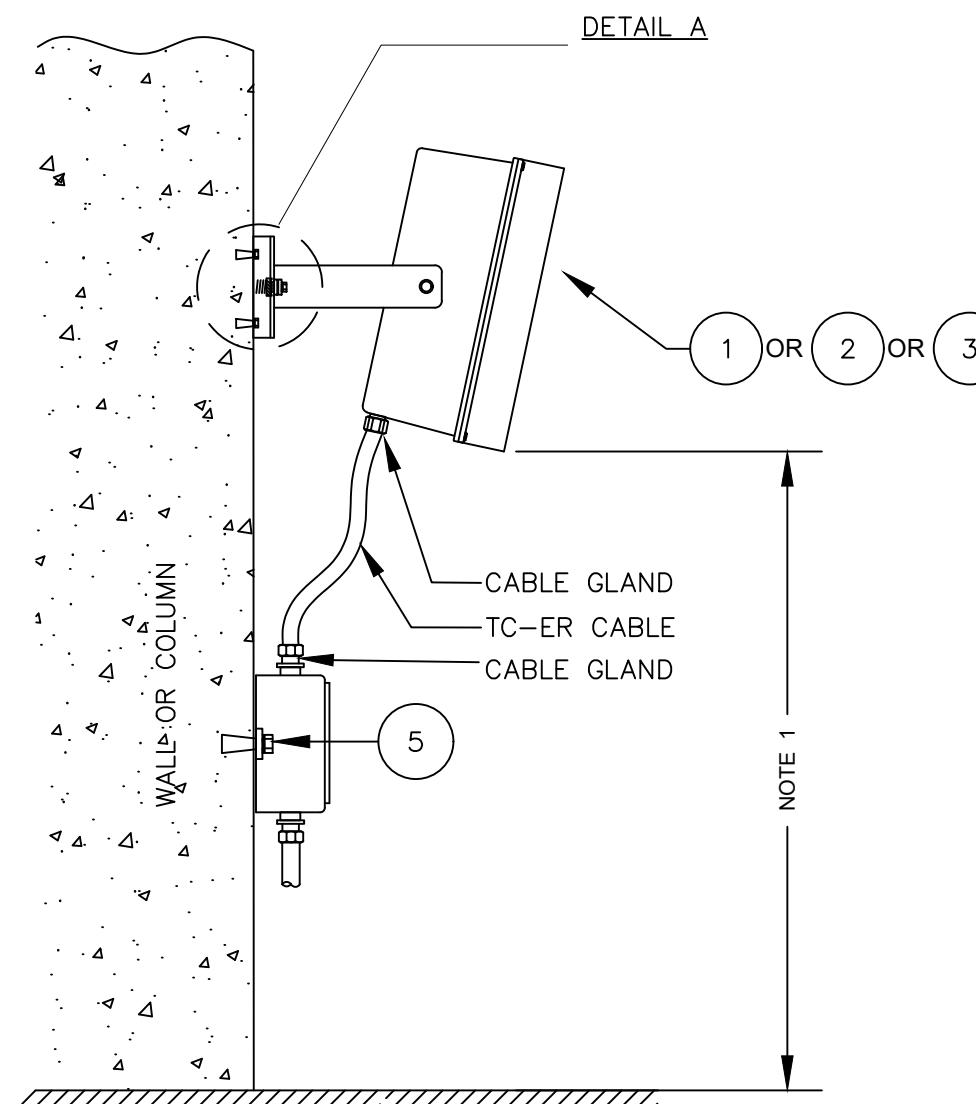
A | B | C | D | E | F | G | H | J | K

L12A/B/C

ITEM	L12A QTY	L12B QTY	L12C QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE
1	1	-	-	EA	LED, CHAMP FMVA FLOOD, YOKE MOUNT, 67W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGF990051
2	-	1	-	EA	LED, CHAMP FMVA FLOOD, YOKE MOUNT, 82W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGF990052
3	-	-	1	EA	LED, CHAMP FMVA FLOOD, YOKE MOUNT, 93W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGF990053
4	2	2	2	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED	16STUS060064
5	6	6	6	EA	EXPANSION ANCHOR, 3/8" x 1-1/2", 316 STAINLESS STEEL, WITH FLAT WASHER AND NUT	16HWRX260166
6	2	2	2	EA	MACHINE BOLT 3/8" x 1-1/2" HEX HEAD NC THREADS 316 STAINLESS STEEL	16HWRX260135
7	2	2	2	EA	SPRING NUT 3/8-16 316 SS	16HWRX260004
8	1	1	1	EA	JUNCTION BOX GHG, 2 UP TO 8 TERMINALS	16JBXX990027

NOTES:

1. FINAL AIMING ANGLE SHALL BE DETERMINED AT SITE.
2. FOR MOUNTING HEIGHT SEE PLAN DWG. 078051C-1000-DW-1632. 078051C-1000-DW-1632.
3. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65.
4. WELDING OF CHANNEL TO STEEL MEMBER REQUIRE PRIOR OWNER'S APPROVAL.
5. SEE BULK MATERIAL MR (MATERIAL REQUISITION) FOR CABLE GLANDS AND JUNCTION BOXES DEFINITIONS.



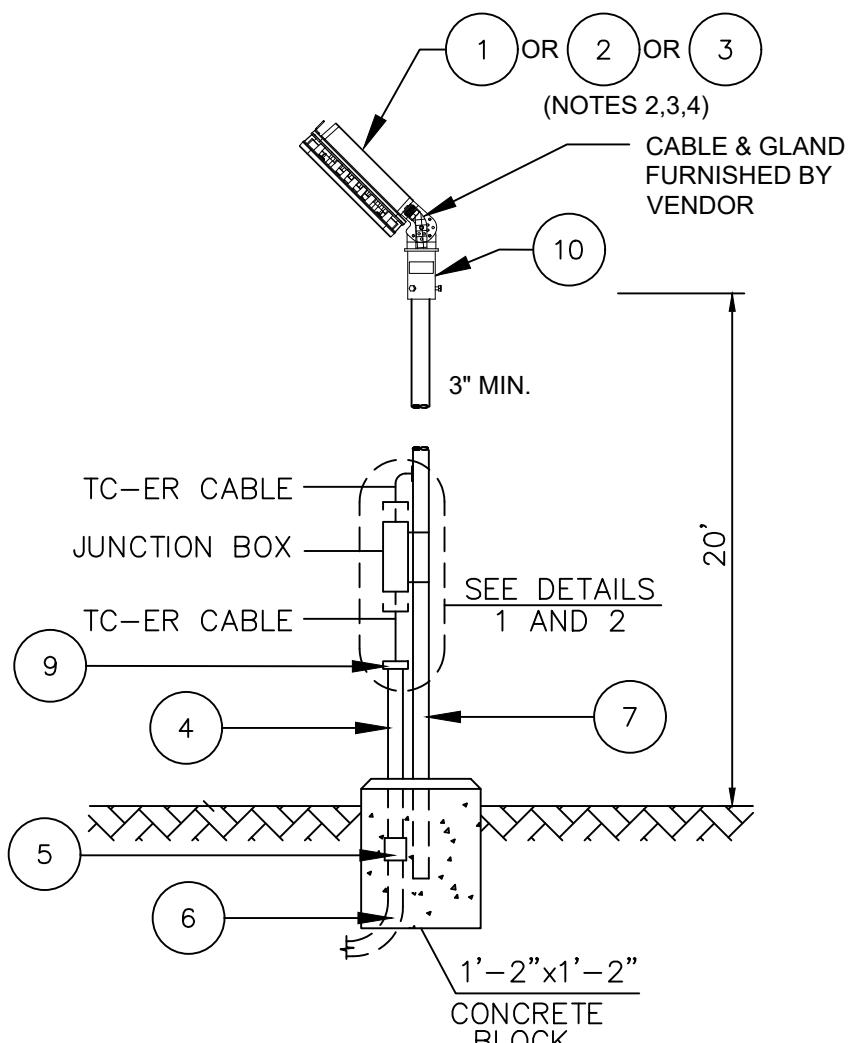
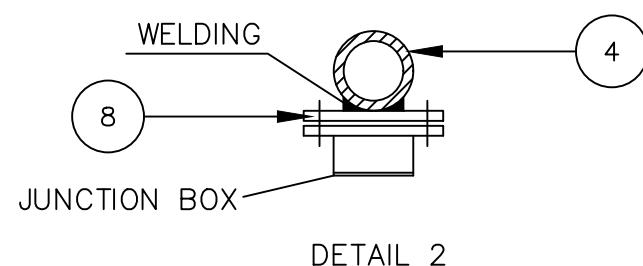
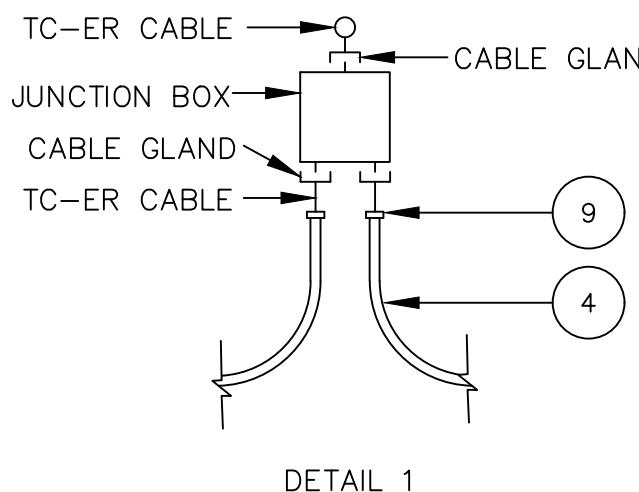
A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VW	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS CONFIDENTIAL AND RESTRICTED INFORMATION OWNED BY THE COMPANY AND/OR ITS AFFILIATES AND/OR ITS CLIENT. USE OF THE INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES N.V. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS FLOODLIGHT MOUNTED ON CONCRETE COLUMN FOR HAZARDOUS AREA CLASSIFICATION "L12"						
SCALE	CLIENT NUMBER	DRAWN BY				
		FV				
PROJECT NUMBER	TECHNIP ENERGIES NUMBER		REVISION			
078051C	078051C-000-STD-1683-0001-16		A			

L13A/B/C

- NOTES:
1. CONCRETE FOUNDATION AND ANCHOR BOLT SIZE AND PATTERN SHALL BE SHOWN ON CIVIL STRUCTURAL DRAWINGS BASED ON POLE VENDOR DATA OBTAINED FROM ELECTRICAL GROUP.
 2. FOR LIGHTING POLE GROUNDING SEE GROUNDING DETAIL.
 3. TC CABLE WILL CONNECT TO FIXTURE AND BE SPLICED AT HAND HOLE OR POLE.
 4. FINAL AIMING ANGLE SHALL BE DETERMINED AT SITE. SEE PLAN DRAWING FOR MOUNTING HEIGHT/ELEVATION.
 5. SEE BULK MATERIAL MR (MATERIAL REQUISITION) FOR CABLE GLANDS AND JUNCTION BOX DEFINITIONS.
 6. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65.

ITEM	L13A QTY	L13B QTY	L13C QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE
1	1	-	-	EA	LED, CHAMP FMVA FLOOD, YOKE MOUNT, 67W, CL. I, Div. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGF990051
2	-	1	-	EA	LED, CHAMP FMVA FLOOD, YOKE MOUNT, 82W, CL. I, Div. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGF990052
3	-	-	1	EA	LED, CHAMP FMVA FLOOD, YOKE MOUNT, 93W, CL. I, Div. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGF990053
4	3	3	3	FT	CONDUIT 1", RIGID GALVANIZED STEEL	16CONS050021
5	2	2	2	EA	1" ADAPTOR, PVC TO RIGID	16CONF070389
6	*	*	*	FT	CONDUIT 1", PVC, SCHEDULE 40	16CONS070013
7	1	1	1	EA	POLE, ROUND TAPERED, ALUMINUM, 20FT, WITH FIXED TENON	16LTGP050064
8	1	1	1	EA	PLATE PRE-CUT 1/4" THICK CARBON STEEL HDG, 4X16	16SPTS060002
9	2	2	2	EA	BUSHING, GROUNDING 1", INSULATED THROAT, GROUND WIRE RANGE #4 - #14 AWG	16CONF990046
10	1	1	1	EA	TENON TOPPER, POLE SET SCREWS AND MOUNTING HARDWARE, FLOODLIGHT	16LTGB990008

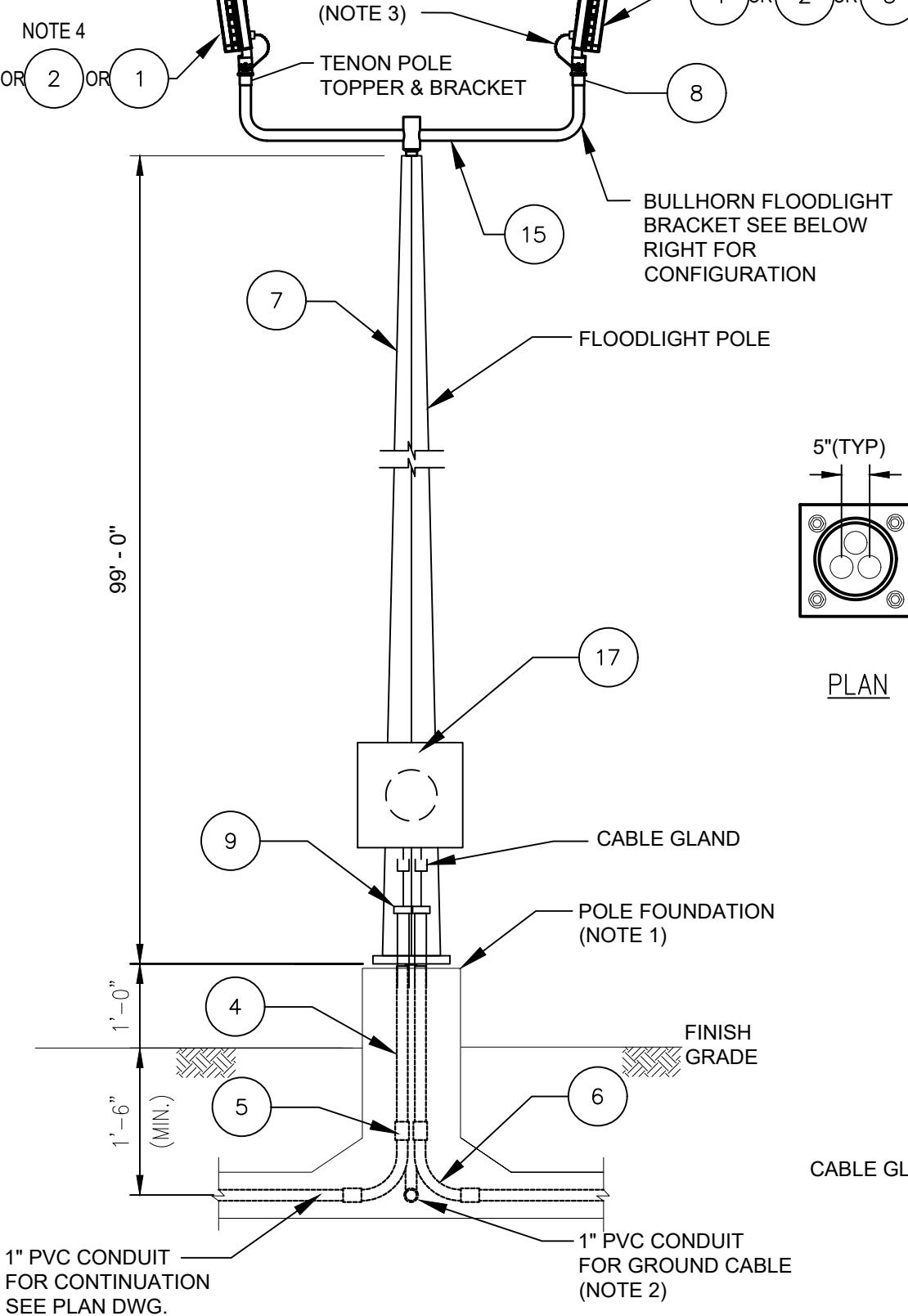
*As required



A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VW	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS EXCLUDED FROM THE INFORMATION THAT IS PROPRIETARY TO THE COMPANY AND/OR ITS CLIENT. USE OF THIS INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES N.V. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS STEEL POLE MOUNTED FLOODLIGHT FOR HAZARDOUS AREA CLASSIFICATION "L13"						
TEN TECHNIP ENERGIES		COMMONWEALTH LNG				
SCALE	CLIENT NUMBER	DRAWN BY				
		FV				
PROJECT NUMBER	TECHNIP ENERGIES NUMBER	REVISION				
078051C	078051C-000-STD-1683-0001-17	A				

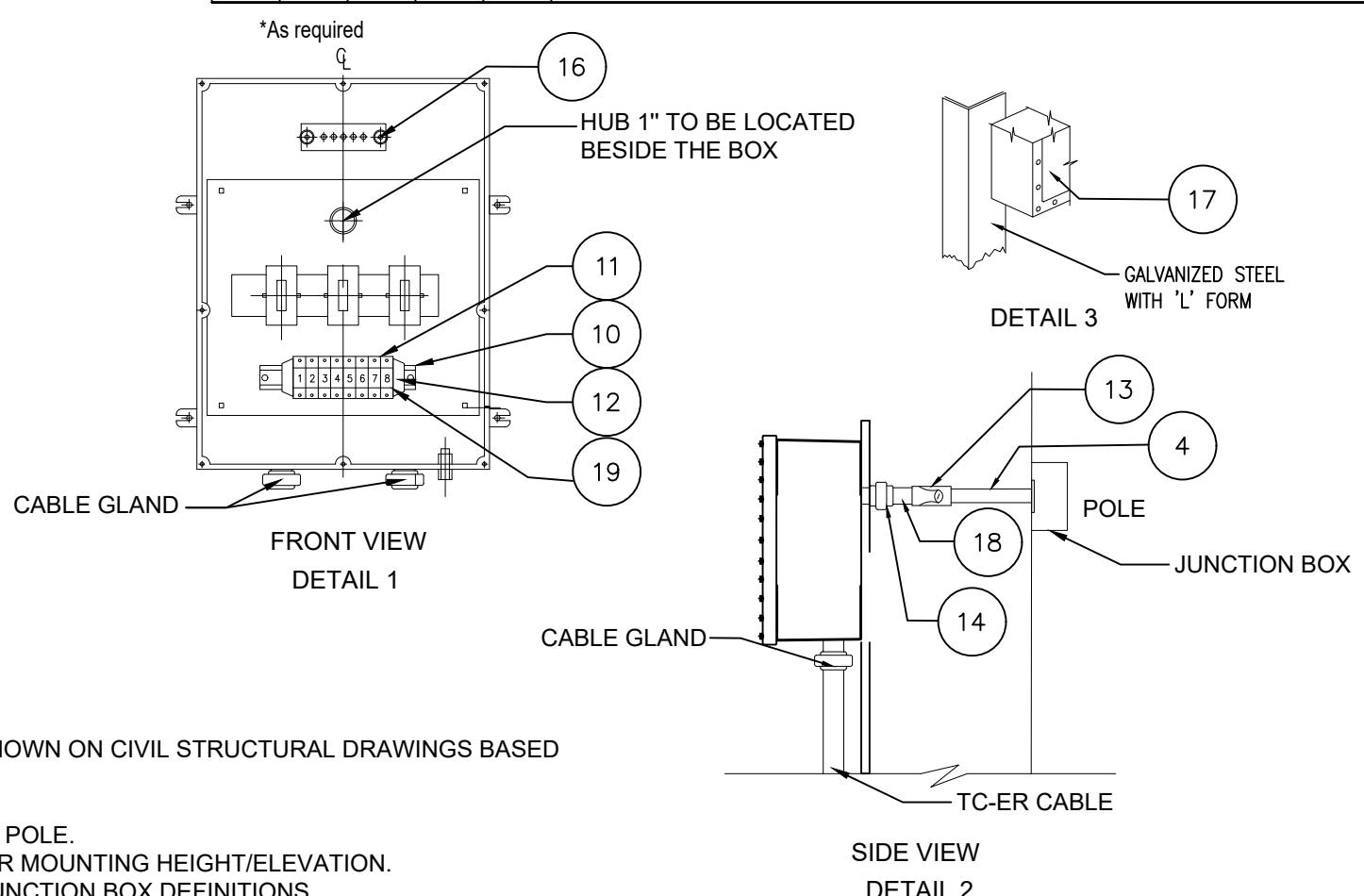
A	B	C	D	E	F	G	H	J	K																																																																																																																																																									
L14A/B/C																																																																																																																																																																		
1	<p>NOTE 4 1 OR 2 OR 3</p> <p>TC-ER CABLE</p> <p>CABLE GLAND (NOTE 3)</p> <p>METALLIC MAST 100 FEET</p> <p>FLOODLIGHT POLE</p> <p>JUNCTION BOX</p> <p>99'-0"</p>	<table border="1"> <thead> <tr> <th colspan="6">BILL OF MATERIAL</th><th>TPENG ITEM CODE</th></tr> <tr> <th>ITEM</th><th>L14A QTY</th><th>L14B QTY</th><th>L14C QTY</th><th>UNIT</th><th colspan="2"></th><th></th></tr> </thead> <tbody> <tr> <td>1</td><td>1</td><td>-</td><td>-</td><td>EA</td><td colspan="2">LED, CHAMP FMVA FLOOD, YOKE MOUNT, 67W, CL. I, Div. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB</td><td>16LTGF990051</td></tr> <tr> <td>2</td><td>-</td><td>1</td><td>-</td><td>EA</td><td colspan="2">LED, CHAMP FMVA FLOOD, YOKE MOUNT, 82W, CL. I, Div. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB</td><td>16LTGF990052</td></tr> <tr> <td>3</td><td>-</td><td>-</td><td>1</td><td>EA</td><td colspan="2">LED, CHAMP FMVA FLOOD, YOKE MOUNT, 93W, CL. I, Div. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB</td><td>16LTGF990053</td></tr> <tr> <td>4</td><td>10</td><td>10</td><td>10</td><td>FT</td><td colspan="2">CONDUIT 1", RIGID GALVANIZED STEEL</td><td>16CONS050021</td></tr> <tr> <td>5</td><td>4</td><td>4</td><td>4</td><td>EA</td><td colspan="2">1" ADAPTOR, PVC TO RIGID</td><td>16CONF070389</td></tr> <tr> <td>6</td><td>*</td><td>*</td><td>*</td><td>FT</td><td colspan="2">CONDUIT 1", PVC, SCHEDULE 40</td><td>16CONS070013</td></tr> <tr> <td>7</td><td>1</td><td>1</td><td>1</td><td>EA</td><td colspan="2">METALLIC MAST 100 FEET</td><td>16LTGP990132</td></tr> <tr> <td>8</td><td>1</td><td>1</td><td>1</td><td>EA</td><td colspan="2">TENON TOPPER, POLE SET SCREWS AND MOUNTING HARDWARE, FLOODLIGHT</td><td>16LTGB990008</td></tr> <tr> <td>9</td><td>3</td><td>3</td><td>3</td><td>EA</td><td colspan="2">BUSHING, GROUNDING 1", INSULATED THROAT, GROUND WIRE RANGE #4 - #14 AWG</td><td>16CONF990046</td></tr> <tr> <td>10</td><td>*</td><td>*</td><td>*</td><td>FT</td><td colspan="2">DIN RAIL PERFORATED-NS, 1,4"X06"</td><td>16SPTS100016</td></tr> <tr> <td>11</td><td>1</td><td>1</td><td>1</td><td>EA</td><td colspan="2">FEED-THROUGH TERMINAL BLOCK-ST6</td><td>16HWRX260171</td></tr> <tr> <td>12</td><td>2</td><td>2</td><td>2</td><td>EA</td><td colspan="2">END CLAMP, CLIPFIX 35</td><td>16HWRX260173</td></tr> <tr> <td>13</td><td>1</td><td>1</td><td>1</td><td>EA</td><td colspan="2">SEAL, 1" TYPE "EYS", VERTICAL/HORIZONTAL,FEMALE</td><td>16CONF990383</td></tr> <tr> <td>14</td><td>1</td><td>1</td><td>1</td><td>EA</td><td colspan="2">UNION, CONDUIT, 1", TYPE "UNY" MALE/FEMALE</td><td>16CONF990199</td></tr> <tr> <td>15</td><td>1</td><td>1</td><td>1</td><td>EA</td><td colspan="2">NIPPLE, CONDUIT, 1" X CLOSE</td><td>16CONF990213</td></tr> <tr> <td>16</td><td>1</td><td>1</td><td>1</td><td>EA</td><td colspan="2">COPPER BUSBAR, GROUNDING, 1/4" X 1.5" X 144"</td><td>16GRNF030147</td></tr> <tr> <td>17</td><td>1</td><td>1</td><td>1</td><td>EA</td><td colspan="2">JUNCTION BOX, FOR STREET LIGHT POLE, NEMA 4X+7, CL I DIV 2, 12" X 12" X 6",INCLUDE BREATHERS AND DRAINS</td><td>16JBXX990028</td></tr> <tr> <td>18</td><td>*</td><td>*</td><td>*</td><td>EA</td><td colspan="2">PLUG IN BRIDGE, FBS, 2-8, TYPE JUMPER</td><td>16HWRX260172</td></tr> </tbody> </table>	BILL OF MATERIAL						TPENG ITEM CODE	ITEM	L14A QTY	L14B QTY	L14C QTY	UNIT				1	1	-	-	EA	LED, CHAMP FMVA FLOOD, YOKE MOUNT, 67W, CL. I, Div. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB		16LTGF990051	2	-	1	-	EA	LED, CHAMP FMVA FLOOD, YOKE MOUNT, 82W, CL. I, Div. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB		16LTGF990052	3	-	-	1	EA	LED, CHAMP FMVA FLOOD, YOKE MOUNT, 93W, CL. I, Div. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB		16LTGF990053	4	10	10	10	FT	CONDUIT 1", RIGID GALVANIZED STEEL		16CONS050021	5	4	4	4	EA	1" ADAPTOR, PVC TO RIGID		16CONF070389	6	*	*	*	FT	CONDUIT 1", PVC, SCHEDULE 40		16CONS070013	7	1	1	1	EA	METALLIC MAST 100 FEET		16LTGP990132	8	1	1	1	EA	TENON TOPPER, POLE SET SCREWS AND MOUNTING HARDWARE, FLOODLIGHT		16LTGB990008	9	3	3	3	EA	BUSHING, GROUNDING 1", INSULATED THROAT, GROUND WIRE RANGE #4 - #14 AWG		16CONF990046	10	*	*	*	FT	DIN RAIL PERFORATED-NS, 1,4"X06"		16SPTS100016	11	1	1	1	EA	FEED-THROUGH TERMINAL BLOCK-ST6		16HWRX260171	12	2	2	2	EA	END CLAMP, CLIPFIX 35		16HWRX260173	13	1	1	1	EA	SEAL, 1" TYPE "EYS", VERTICAL/HORIZONTAL,FEMALE		16CONF990383	14	1	1	1	EA	UNION, CONDUIT, 1", TYPE "UNY" MALE/FEMALE		16CONF990199	15	1	1	1	EA	NIPPLE, CONDUIT, 1" X CLOSE		16CONF990213	16	1	1	1	EA	COPPER BUSBAR, GROUNDING, 1/4" X 1.5" X 144"		16GRNF030147	17	1	1	1	EA	JUNCTION BOX, FOR STREET LIGHT POLE, NEMA 4X+7, CL I DIV 2, 12" X 12" X 6",INCLUDE BREATHERS AND DRAINS		16JBXX990028	18	*	*	*	EA	PLUG IN BRIDGE, FBS, 2-8, TYPE JUMPER		16HWRX260172	
BILL OF MATERIAL						TPENG ITEM CODE																																																																																																																																																												
ITEM	L14A QTY	L14B QTY	L14C QTY	UNIT																																																																																																																																																														
1	1	-	-	EA	LED, CHAMP FMVA FLOOD, YOKE MOUNT, 67W, CL. I, Div. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB		16LTGF990051																																																																																																																																																											
2	-	1	-	EA	LED, CHAMP FMVA FLOOD, YOKE MOUNT, 82W, CL. I, Div. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB		16LTGF990052																																																																																																																																																											
3	-	-	1	EA	LED, CHAMP FMVA FLOOD, YOKE MOUNT, 93W, CL. I, Div. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB		16LTGF990053																																																																																																																																																											
4	10	10	10	FT	CONDUIT 1", RIGID GALVANIZED STEEL		16CONS050021																																																																																																																																																											
5	4	4	4	EA	1" ADAPTOR, PVC TO RIGID		16CONF070389																																																																																																																																																											
6	*	*	*	FT	CONDUIT 1", PVC, SCHEDULE 40		16CONS070013																																																																																																																																																											
7	1	1	1	EA	METALLIC MAST 100 FEET		16LTGP990132																																																																																																																																																											
8	1	1	1	EA	TENON TOPPER, POLE SET SCREWS AND MOUNTING HARDWARE, FLOODLIGHT		16LTGB990008																																																																																																																																																											
9	3	3	3	EA	BUSHING, GROUNDING 1", INSULATED THROAT, GROUND WIRE RANGE #4 - #14 AWG		16CONF990046																																																																																																																																																											
10	*	*	*	FT	DIN RAIL PERFORATED-NS, 1,4"X06"		16SPTS100016																																																																																																																																																											
11	1	1	1	EA	FEED-THROUGH TERMINAL BLOCK-ST6		16HWRX260171																																																																																																																																																											
12	2	2	2	EA	END CLAMP, CLIPFIX 35		16HWRX260173																																																																																																																																																											
13	1	1	1	EA	SEAL, 1" TYPE "EYS", VERTICAL/HORIZONTAL,FEMALE		16CONF990383																																																																																																																																																											
14	1	1	1	EA	UNION, CONDUIT, 1", TYPE "UNY" MALE/FEMALE		16CONF990199																																																																																																																																																											
15	1	1	1	EA	NIPPLE, CONDUIT, 1" X CLOSE		16CONF990213																																																																																																																																																											
16	1	1	1	EA	COPPER BUSBAR, GROUNDING, 1/4" X 1.5" X 144"		16GRNF030147																																																																																																																																																											
17	1	1	1	EA	JUNCTION BOX, FOR STREET LIGHT POLE, NEMA 4X+7, CL I DIV 2, 12" X 12" X 6",INCLUDE BREATHERS AND DRAINS		16JBXX990028																																																																																																																																																											
18	*	*	*	EA	PLUG IN BRIDGE, FBS, 2-8, TYPE JUMPER		16HWRX260172																																																																																																																																																											
2																																																																																																																																																																		
3																																																																																																																																																																		
4	<p>*As required</p> <p>CABLE GLAND</p> <p>POLE FOUNDATION (NOTE 1)</p> <p>FINISH GRADE</p> <p>1' 0"</p> <p>1' 6" (MIN.)</p> <p>1" PVC CONDUIT FOR GROUND CABLE (NOTE 2)</p> <p>1" PVC CONDUIT FOR CONTINUATION SEE PLAN DWG.</p>	<p>CABLE GLAND</p> <p>FRONT VIEW</p> <p>DETAIL 1</p>	<p>CABLE GLAND</p> <p>POLE</p> <p>JUNCTION BOX</p> <p>TC-ER CABLE</p> <p>SIDE VIEW</p> <p>DETAIL 2</p>	<p>HUB 1" TO BE LOCATED BESIDE THE BOX</p> <p>GALVANIZED STEEL WITH 'L' FORM</p> <p>DETAIL 3</p> <p>16</p> <p>11</p> <p>10</p> <p>12</p> <p>18</p>																																																																																																																																																														
5																																																																																																																																																																		
6	<p>NOTES:</p> <ol style="list-style-type: none"> 1. CONCRETE FOUNDATION AND ANCHOR BOLT SIZE AND PATTERN SHALL BE SHOWN ON CIVIL STRUCTURAL DRAWINGS BASED ON POLE VENDOR DATA OBTAINED FROM ELECTRICA GROUP. 2. FOR LIGHTING POLE GROUNDING SEE GROUNDING DETAIL. 3. TC-ER CABLE WILL CONNECT TO FIXTURE AND BE SPLICED AT HAND HOLE OR POLE. 4. FINAL AIMING ANGLE SHALL BE DETERMINED AT SITE. SEE PLAN DRAWING FOR MOUNTING HEIGHT/ELEVATION. 5. SEE BULK MATERIAL MR (MATERIAL REQUISITION) FOR CABLE GLANDS AND JUNCTION BOX DEFINITIONS. 6. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65. 	<table border="1"> <tr> <td>A</td><td>ISSUED FOR REVIEW</td><td>10-02-2023</td><td>FV</td><td>LNW</td><td>VV</td><td>VVA</td></tr> <tr> <td>REV</td><td>REVISION DESCRIPTION</td><td>DATE</td><td>DRAWN</td><td>CHECKED</td><td>APPROVED</td><td>PROJ APR</td></tr> </table> <p>CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS EXCLUDED FROM THE INFORMATION THAT IS SUBJECT TO THE TRADE SECRET LAW OF THE STATE AND/OR ITS CLIENT. USE OF THE INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES NV, AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.</p> <p>CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA</p> <p>TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS FLOODLIGHT MOUNTED ON HIGH MAST TYPE FOR HAZARDOUS AREA CLASSIFICATION "L14"</p> <p>TEN TECHNIP ENERGIES COMMONWEALTH LNG</p> <table border="1"> <tr> <td>SCALE</td><td>CLIENT NUMBER</td><td>DRAWN BY</td></tr> <tr> <td></td><td></td><td>FV</td></tr> <tr> <td>PROJECT NUMBER</td><td>TECHNIP ENERGIES NUMBER</td><td>REVISION</td></tr> <tr> <td>078051C</td><td>078051C-000-STD-1683-0001-18</td><td>A</td></tr> </table>	A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA	REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR	SCALE	CLIENT NUMBER	DRAWN BY			FV	PROJECT NUMBER	TECHNIP ENERGIES NUMBER	REVISION	078051C	078051C-000-STD-1683-0001-18	A																																																																																																																																						
A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA																																																																																																																																																												
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR																																																																																																																																																												
SCALE	CLIENT NUMBER	DRAWN BY																																																																																																																																																																
		FV																																																																																																																																																																
PROJECT NUMBER	TECHNIP ENERGIES NUMBER	REVISION																																																																																																																																																																
078051C	078051C-000-STD-1683-0001-18	A																																																																																																																																																																
7																																																																																																																																																																		

L15A/B/C

NOTES:

1. CONCRETE FOUNDATION AND ANCHOR BOLT SIZE AND PATTERN SHALL BE SHOWN ON CIVIL STRUCTURAL DRAWINGS BASED ON POLE VENDOR DATA OBTAINED FROM ELECTRICAL GROUP.
2. FOR LIGHTING POLE GROUNDING SEE GROUNDING DETAILS.
3. TC-ER CABLE WILL CONNECT TO FIXTURE AND BE SPLICED AT HAND HOLE OR POLE.
4. FINAL AIMING ANGLE SHALL BE DETERMINED AT SITE. SEE PLAN DRAWING FOR MOUNTING HEIGHT/ELEVATION.
5. SEE BULK MATERIAL MR (MATERIAL REQUISITION) FOR CABLE GLANDS AND JUNCTION BOX DEFINITIONS.
6. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65.

ITEM	L15A QTY	L15B QTY	L15C QTY	UNIT	BILL OF MATERIAL		TPENG ITEM CODE
					1	2	
1	2	-	-	EA	LED, CHAMP FMVA FLOOD, YOKE MOUNT, 67W, CL. I, Div. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB		16LTGF990051
2	-	2	-	EA	LED, CHAMP FMVA FLOOD, YOKE MOUNT, 82W, CL. I, Div. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB		16LTGF990052
3	-	-	2	EA	LED, CHAMP FMVA FLOOD, YOKE MOUNT, 93W, CL. I, Div. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB		16LTGF990053
4	10	10	10	FT	CONDUIT 1", RIGID GALVANIZED STEEL		16CONS050021
5	4	4	4	EA	1" ADAPTOR, PVC TO RIGID		16CONF070389
6	*	*	*	FT	CONDUIT 1", PVC, SCHEDULE 40		16CONS070013
7	1	1	1	EA	METALLIC MAST 100 FEET		16LTGP990132
8	2	2	2	EA	TENON TOPPER, POLE SET SCREWS AND MOUNTING HARDWARE, FLOODLIGHT		16LTGB990008
9	3	3	3	EA	BUSHING, GROUNDING 1", INSULATED THROAT, GROUND WIRE RANGE #4 - #14 AWG		16CONF990046
10	*	*	*	FT	DIN RAIL PERFORATED-NS, 1/4"X06"		16SPTS100016
11	1	1	1	EA	FEED-THROUGHT TERMINAL BLOCK-ST6		16HWRX260171
12	2	2	2	EA	END CLAMP, CLIPFIX 35		16HWRX260173
13	1	1	1	EA	SEAL, 1" TYPE "EYS", VERTICAL/HORIZONTAL,FEMALE		16CONF990383
14	1	1	1	EA	UNION, CONDUIT, 1", TYPE "UNY" MALE/FEMALE		16CONF990199
15	1	1	1	EA	2.375"- LGC, ACCESS OPTS, LED MOUNT, END: BOLTED, MATL: BRONZE TYPE: BULL HN BKT, 2 LIGHTS		16LTGA990025
16	1	1	1	EA	COPPER BUSBAR, GROUNDING, 1/4" X 1.5" X 144"		16GRNF030147
17	1	1	1	EA	JUNCTION BOX, FOR STREET LIGHT POLE, NEMA 4X+7, CL I DIV 2, 12" X 12" X 6",INCLUDE BREATHERS AND DRAINS		16JBXX990028
18	1	1	1	EA	NIPPLE, CONDUIT, 1" X CLOSE		16CONF990213
19	*	*	*	EA	PLUG IN BRIDGE, FBS, 2-8, TYPE JUMPER		16HWRX260172

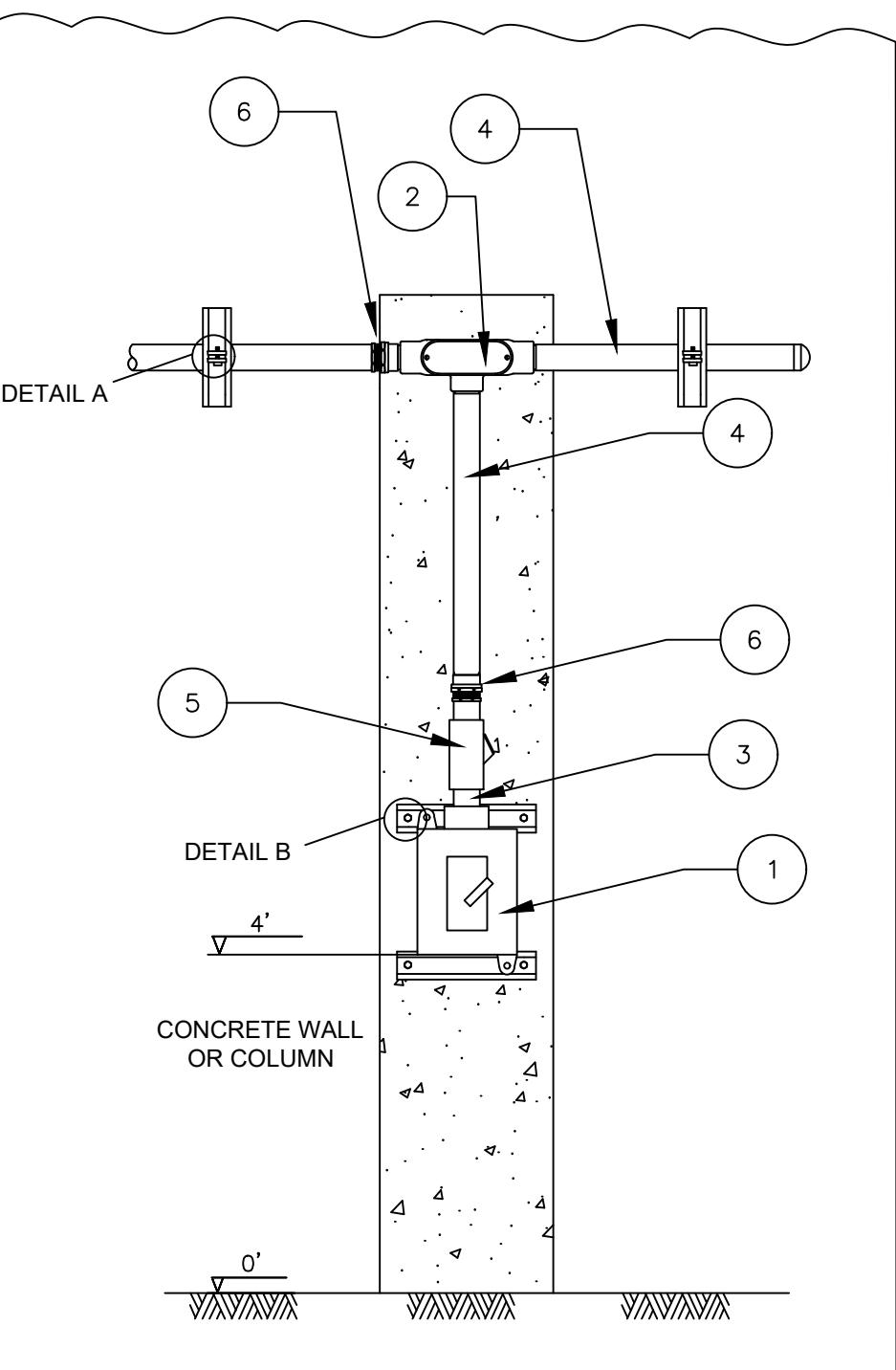


A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. USE OR DISCLOSURE OF THIS INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGY LLC AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT						
COMMONWEALTH LNG LLC						
COMMONWEALTH LNG						
CAMERON PARISH, LOUISIANA						
TITLE						
ELECTRICAL LIGHTING						
INSTALLATION DETAILS FLOODLIGHT MOUNTED ON HIGH MAST						
TYPE-2 FIXTURES FOR HAZARDOUS AREA CLASSIFICATION "L15"						
Scale						
Client Number						
Drawn by						
FV						
Project Number						
Technip Energies Number						
Revision						
078051C		078051C-000-STD-1683-0001-19				
A						

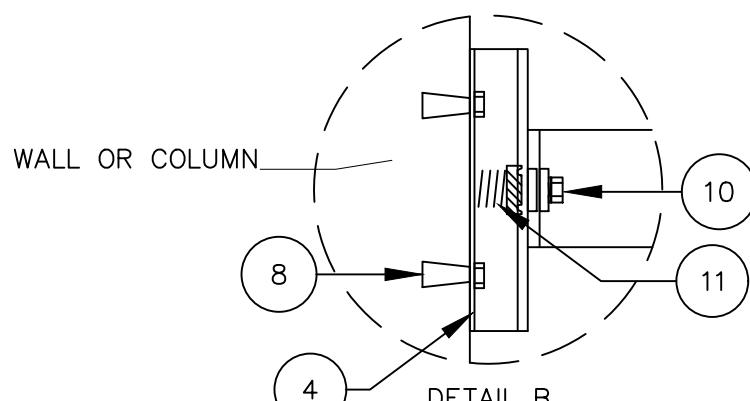
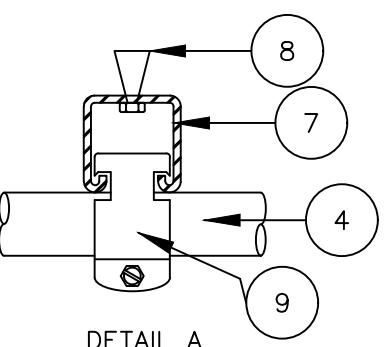


COMMONWEALTH LNG

L16



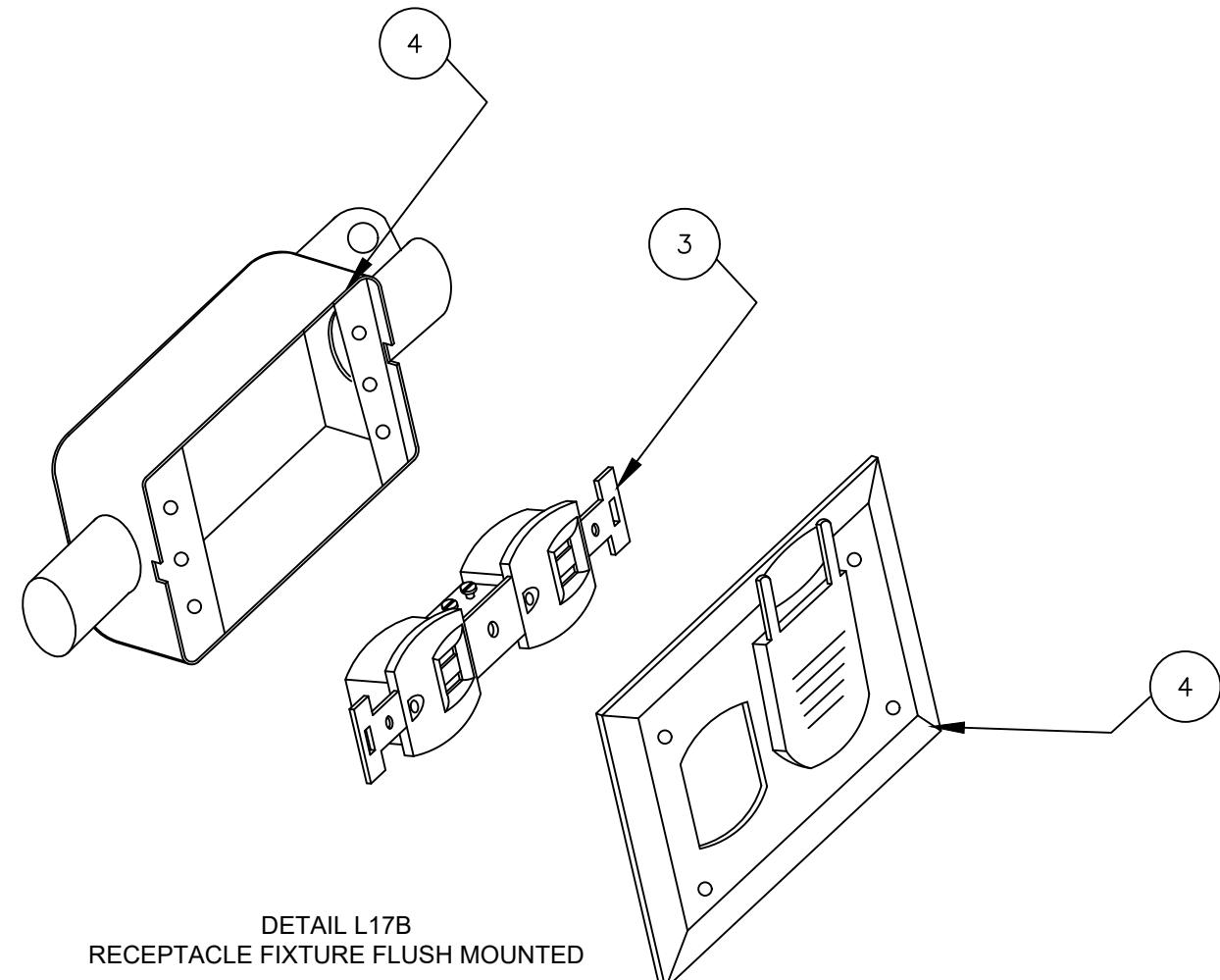
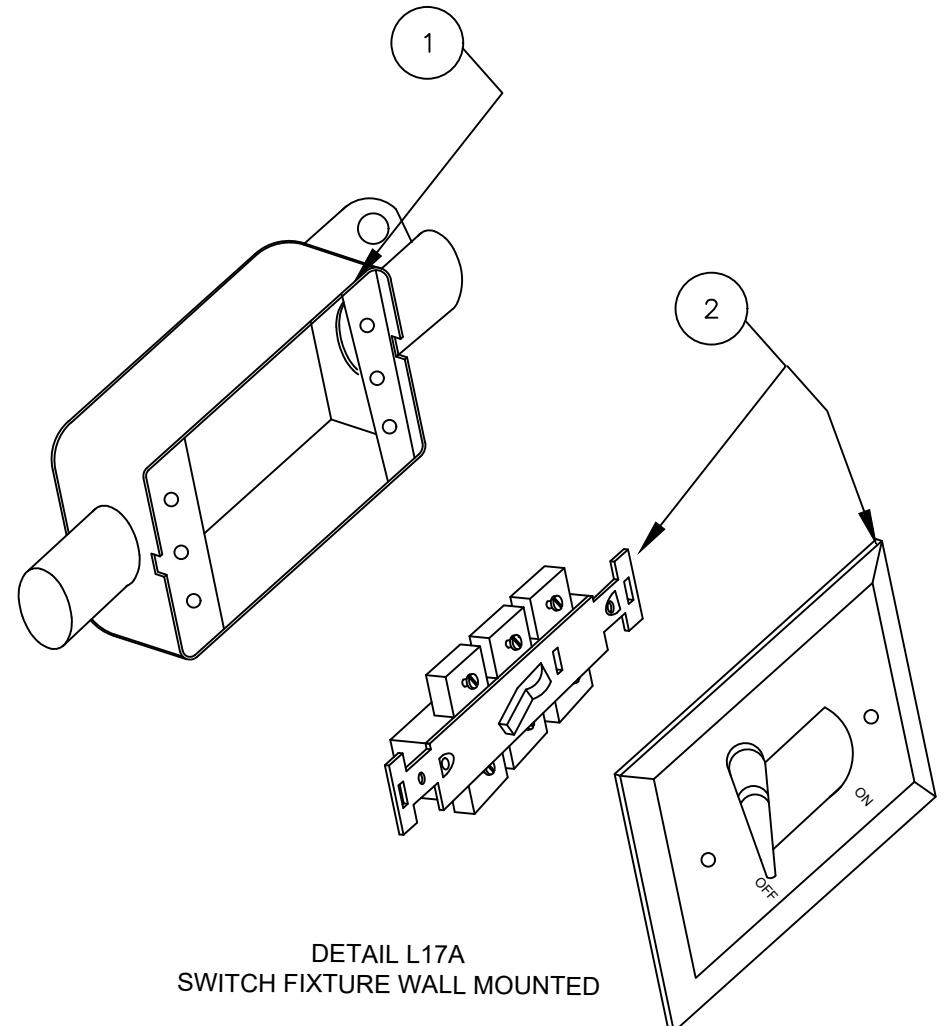
ITEM	L16A QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE
1	1	EA	TUMBLER SWITCH TOGGLE TYPE, CLASS I DIV 2, 20A, 120/277 v, 3/4", LeverOperator: Lever Hubber Killark FXS	16COSX990014
2	2	EA	FITTING, CONDUIT BODY 3/4", TYPE 'T', FORM 8, IRON ALLOY WITH COVER AND GASKET	16CONF150181
3	2	FT	NIPPLE, CONDUIT, 3/4" X CLOSE	16CONF990216
4	10	FT	CONDUIT 3/4", RIGID GALVANIZED STEEL	16CONS050020
5	4	EA	SEAL, 3/4" TYPE "EYS", VERTICAL/HORIZONTAL,FEMALE	16CONF990417
6	2	EA	UNION, CONDUIT, 3/4", TYPE "UNY" MALE/FEMALE	16CONF990203
7	4	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED	16STUS060064
8	6	EA	EXPANSION ANCHOR, 3/8" x 1-1/2", 316 STAINLESS STEEL, WITH FLAT WASHER AND NUT	16HWRX260166
9	2	EA	CONDUIT STRAP, 3/4" SS WITH SS6 HARDWARE, USE WITH 1 5/8" STRUT CHANNEL	16STUA260014
10	4	EA	MACHINE BOLT 3/8" x 1-1/2" HEX HEAD NC THREADS 316 STAINLESS STEEL	16HWRX260135
11	4	EA	SPRING NUT 3/8-16 316 SS	16HWRX260004



A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS EXCLUDED FROM THE INFORMATION CONTROLLED BY THE CONTRACTUAL AGREEMENTS OF THE COMPANY AND/OR ITS CLIENT. USE OF THE INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES NV, AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS TUMBLER SWITCH WALL MOUNTED FOR HAZARDOUS AREA CLASSIFICATION "L16"						
SCALE	CLIENT NUMBER	DRAWN BY				
		FV				
PROJECT NUMBER	TECHNIP ENERGIES NUMBER	REVISION				
078051C	078051C-000-STD-1683-0001-20	A				

L17A/B

ITEM	L17A QTY	L17B QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE
1	1	1	EA	WEATHERPROOF ELECTRICAL BOX, 1 GANGS, 3/4" HUB SIZE, 2 INLETS, 6,38" L	16LTGR990149
2	1	-	EA	WEATHERPROOF COVER, VERTICAL, TOGGLE SINGLE POLE 125V, 15A, SWITCH INCLUDED	16LTGR990150
3	-	1	FT	RECEPTACLE 20A, 125V, 2 POLE, GROUNDING WEATHER PROOF, FCLA2	16LTGR990151
4	-	1	FT	WEATHERPROOF COVER FOR RECEPTACLE FCLA2	16LTGR990152



A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS EXCLUDED FROM CONFIDENTIALITY INFORMATION OF THE CONTRACTING ENTITY AND/OR ITS CLIENT. USE OF THIS INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES N.V. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.					
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA					
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS SWITCH/CONVENIENCE SOCKET FLUSH MOUNTED FOR NON-HAZARDOUS AREA CLASSIFICATION "L17"					
SCALE	CLIENT NUMBER	DRAWN BY	FV		
PROJECT NUMBER	TECHNIP ENERGIES NUMBER	REVISION			
078051C	078051C-000-STD-1683-0001-21	A			

L18

ITEM

L18
QTY

UNIT

BILL OF MATERIAL

TPENG ITEM CODE

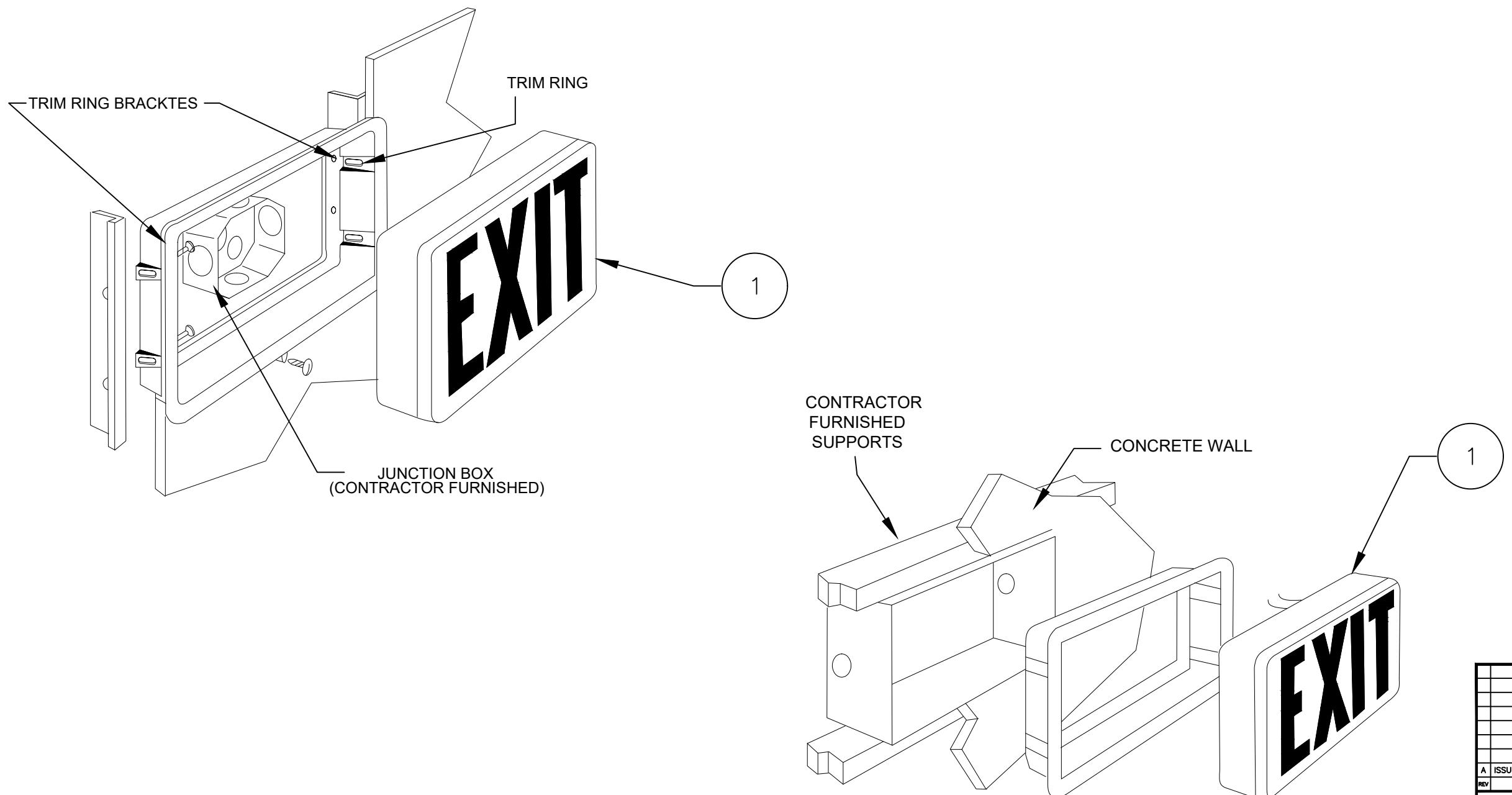
1

1

EA

EXIT LIGHT LZ , CLASS I DIV 2 (SEE FIXTURE SCHEDULE ON SHEET 65.)

16LTGP990101



A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VW	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
<small>CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. THIS DOCUMENT IS EXCLUDED FROM THE INFORMATION CONTROLLED BY THE CONTRACT. TECHNIP ENERGY AND/OR ITS CLIENTS. USE OF THIS INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGY N.V. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.</small>						
<small>CLIENT</small>						
<small>COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA</small>						
<small>TITLE</small>						
<small>ELECTRICAL LIGHTING INSTALLATION DETAILS LED EXIT LIGHTING FLUSH MOUNTED FOR HAZARDOUS AREA CLASSIFICATION "L18"</small>						
<small>SCALE</small>						
<small>CLIENT NUMBER</small>						
<small>FV</small>						
<small>PROJECT NUMBER</small>						
<small>TECHNIP ENERGIES NUMBER</small>						
<small>REVISION</small>						
078051C	078051C-000-STD-1683-0001-22					A

A

B

C

D

E

F

G

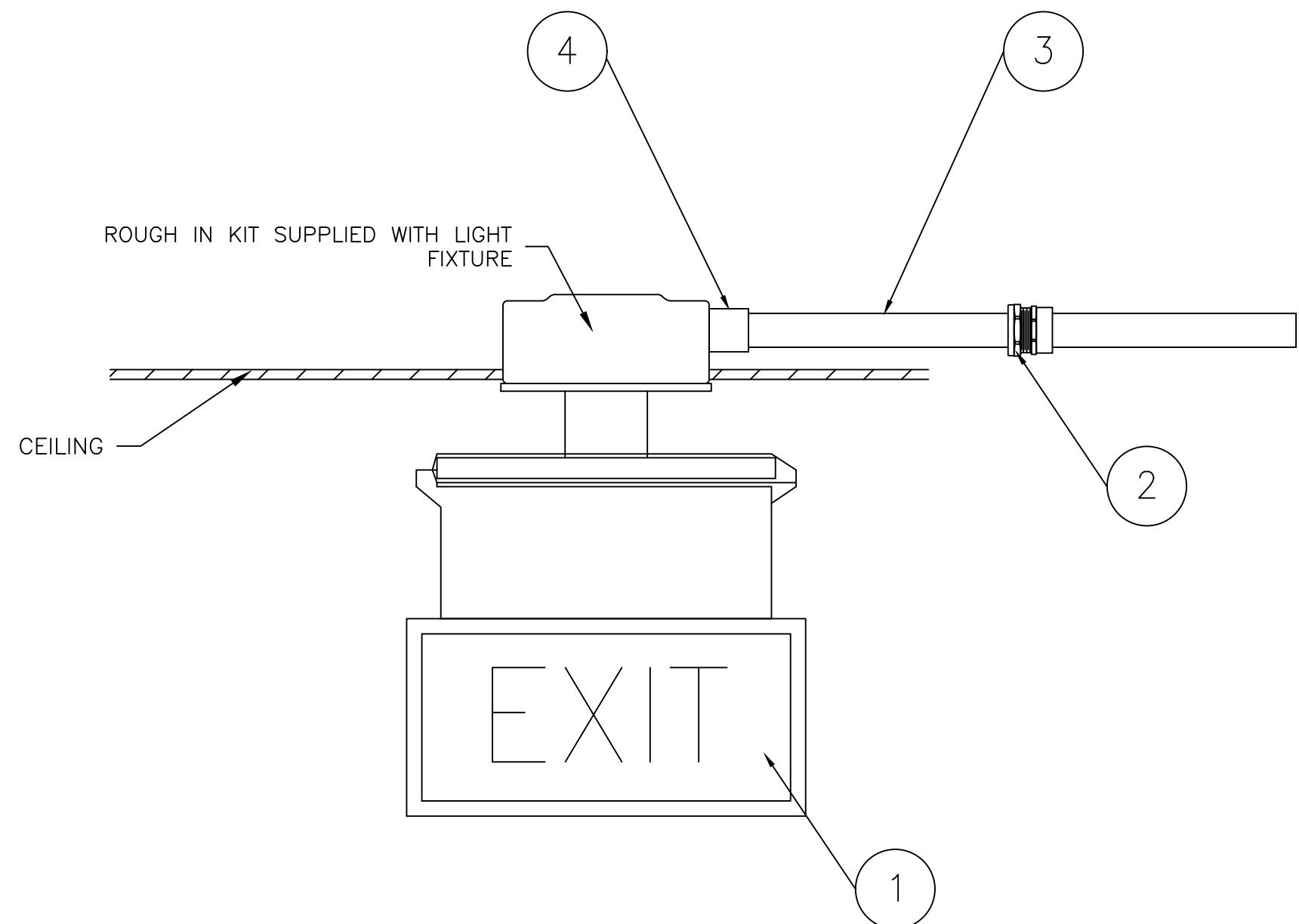
H

J

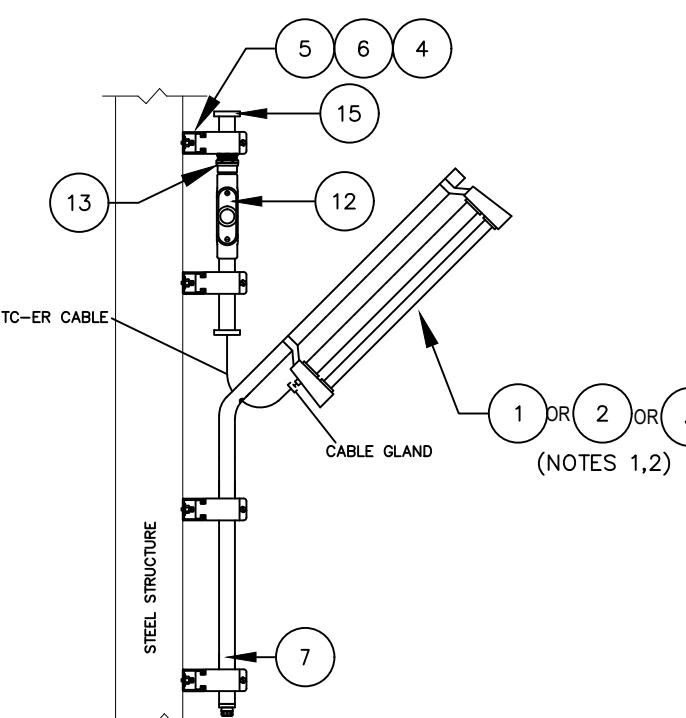
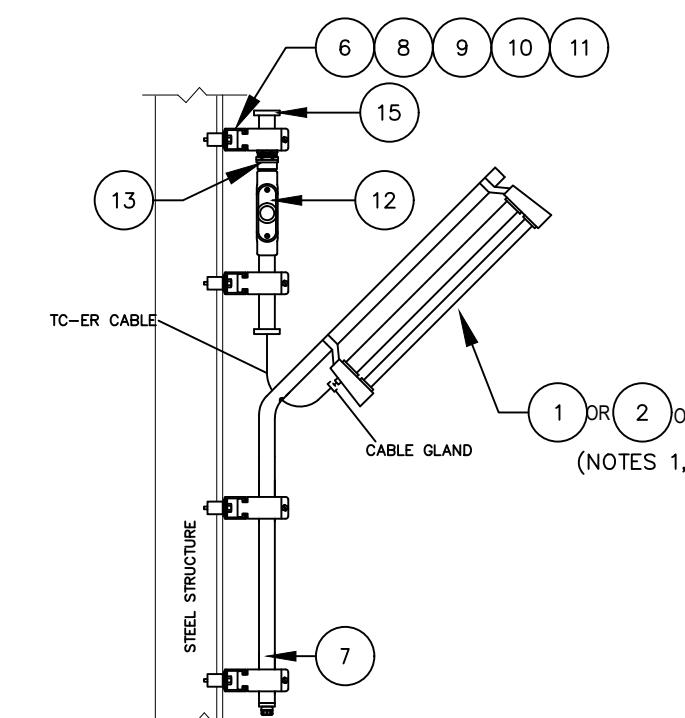
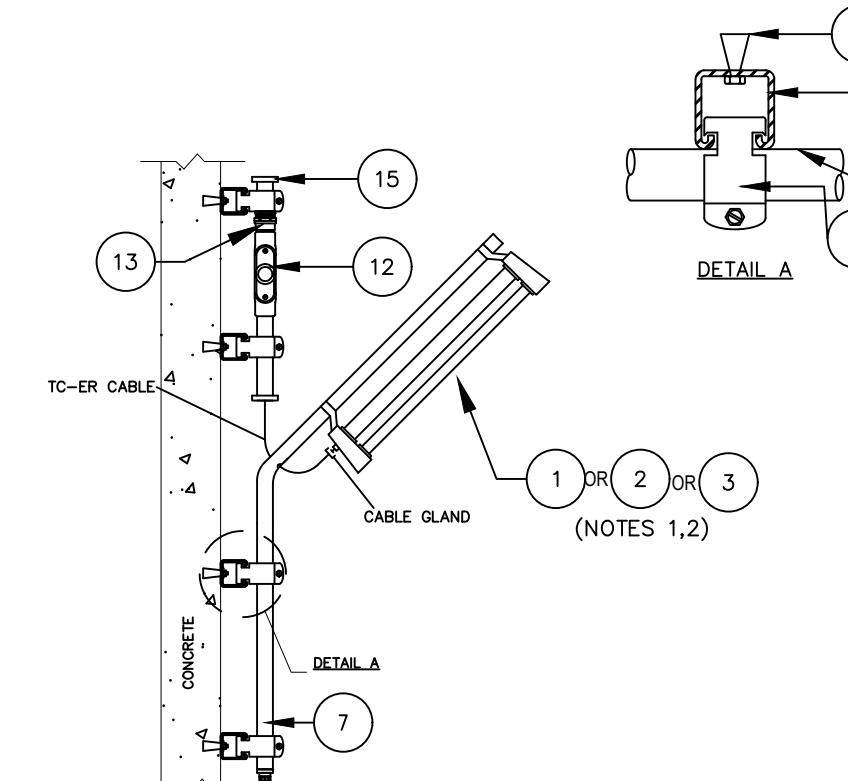
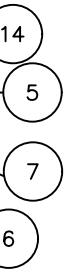
K

L19

ITEM	L19 QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE
1	1	EA	EXIT LIGHT LZ, CLASS I DIV 2 (SEE FIXTURE SCHEDULE ON SHEET 65.)	16LTGP990101
2	1	EA	UNION, CONDUIT, 3/4", TYPE "UNY" MALE/FEMALE	16CONF990203
3	3	FT	CONDUIT 3/4", RIGID GALVANIZED STEEL	16CONS050020
4	1	EA	REDUCER, CONDUIT, 3/4" X 1/2"	16CONF140152



A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VW	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
<small>CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. EXCEPT AS EXPRESSLY CONFERRED IN WRITING BY THE ISSUING ENTITY AND/OR ITS CLIENT, USE OF THIS INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES N.V. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.</small>						
<small>CLIENT</small>						
<small>COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA</small>						
<small>TITLE</small>						
<small>ELECTRICAL LIGHTING INSTALLATION DETAILS LED EXIT LIGHTING CEILING MOUNTED FOR HAZARDOUS AREA CLASSIFICATION "L19"</small>						
<small>SCALE</small>						
<small>CLIENT NUMBER</small>						
<small>FV</small>						
<small>PROJECT NUMBER</small>						
<small>TECHNIP ENERGIES NUMBER</small>						
<small>REVISION</small>						
<small>078051C</small>						
<small>078051C-000-STD-1683-0001-23</small>						
<small>A</small>						

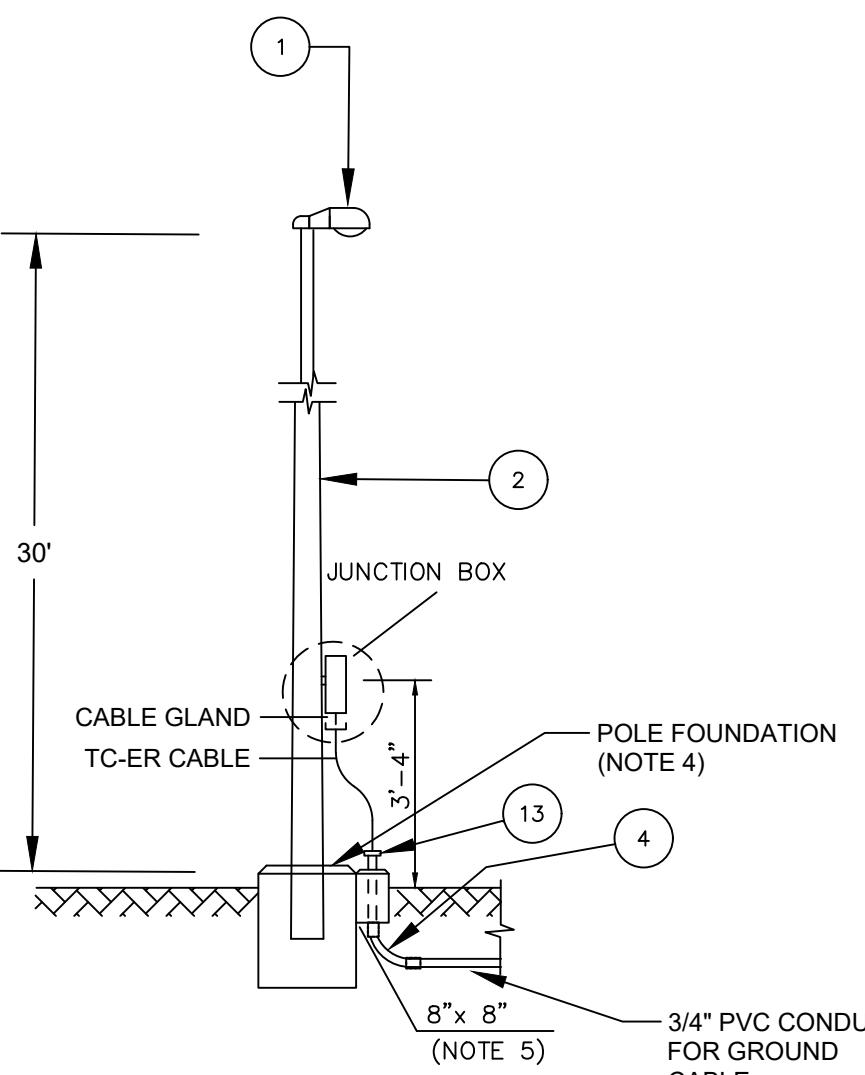
A	B	C	D	E	F	G	H	J	K																																																																																																																																																																																																	
L20A/B/C/D/E/F/G/H/I		BILL OF MATERIAL																																																																																																																																																																																																								
TPENG ITEM CODE																																																																																																																																																																																																										
1	<table border="1"> <thead> <tr> <th>ITEM</th><th>L20A QTY</th><th>L20B QTY</th><th>L20C QTY</th><th>L20D QTY</th><th>L20E QTY</th><th>L20F QTY</th><th>L20G QTY</th><th>L20H QTY</th><th>UNIT</th><th></th><th>TPENG ITEM CODE</th></tr> </thead> <tbody> <tr><td>1</td><td>1</td><td>-</td><td>-</td><td>1</td><td>-</td><td>-</td><td>1</td><td>-</td><td>EA</td><td>LED LINEAR ,BRACKET MOUNT ,25 DEG. ANGLE, 30W, CL. I, DIV. 2, A,B,C,D, 100-240VAC, 5700K</td><td>16LTGB990111</td></tr> <tr><td>2</td><td>-</td><td>1</td><td>-</td><td>-</td><td>1</td><td>-</td><td>-</td><td>1</td><td>EA</td><td>LED LINEAR , BRACKET MOUNT ,25 DEG. ANGLE, 40W, CL. I, DIV. 2, A,B,C,D, 100-240VAC, 5700K</td><td>16LTGB990112</td></tr> <tr><td>3</td><td>-</td><td>-</td><td>1</td><td>-</td><td>-</td><td>1</td><td>-</td><td>-</td><td>EA</td><td>LED LINEAR , BRACKET MOUNT ,25 DEG. ANGLE, 60W, CL. I, DIV. 2, A,B,C,D, 100-240VAC, 5700K</td><td>16LTGB990113</td></tr> <tr><td>4</td><td>4</td><td>4</td><td>4</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>EA</td><td>STUD, THREADED, 3/8", X-BT-MR W10/15 SN 8, WITH NUT, 316 STAINLESS STEEL</td><td>16HWRX260009</td></tr> <tr><td>5</td><td>4</td><td>4</td><td>4</td><td>-</td><td>-</td><td>-</td><td>4</td><td>4</td><td>FT</td><td>STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED</td><td>16STUS060064</td></tr> <tr><td>6</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>EA</td><td>CONDUIT STRAP, 3/4" SS WITH SS6 HARDWARE, USE WITH 1 5/8" STRUT CHANNEL</td><td>16STUA260014</td></tr> <tr><td>7</td><td>5</td><td>5</td><td>5</td><td>5</td><td>5</td><td>5</td><td>5</td><td>5</td><td>FT</td><td>CONDUIT 3/4", RIGID GALVANIZED STEEL</td><td>16CONSO50020</td></tr> <tr><td>8</td><td>-</td><td>-</td><td>-</td><td>4</td><td>4</td><td>4</td><td>-</td><td>-</td><td>FT</td><td>STRUT, HS-1-5/8" X 1-5/8", 12 GAUGE, HDG</td><td>16STUS060056</td></tr> <tr><td>9</td><td>-</td><td>-</td><td>-</td><td>4</td><td>4</td><td>4</td><td>-</td><td>-</td><td>EA</td><td>STUD, THREADED, 8MM, X-BT-GR M8/7 SN 8, W/O NUT, 316 STAINLESS STEEL</td><td>16HWRX260098</td></tr> <tr><td>10</td><td>-</td><td>-</td><td>-</td><td>4</td><td>4</td><td>4</td><td>-</td><td>-</td><td>EA</td><td>STAND-OFF ADAPTOR, HILTI, M8-MF 25, 1" LONG, WITH NUT, HDG</td><td>16HLTX990001</td></tr> <tr><td>11</td><td>-</td><td>-</td><td>-</td><td>4</td><td>4</td><td>4</td><td>-</td><td>-</td><td>EA</td><td>PLATE, MQZ-L9-F</td><td>16HLTX990003</td></tr> <tr><td>12</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>EA</td><td>FITTING, CONDUIT BODY 3/4", TYPE "T", FORM 8, IRON ALLOY WITH COVER AND GASKET</td><td>16CONF150181</td></tr> <tr><td>13</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>EA</td><td>UNION, CONDUIT, 3/4", TYPE "UNY" MALE/FEMALE</td><td>16CONF990203</td></tr> <tr><td>14</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>4</td><td>4</td><td>EA</td><td>EXPANSION ANCHOR, 3/8" x 1-1/2", 316 STAINLESS STEEL, WITH FLAT WASHER AND NUT</td><td>16HWRX260166</td></tr> <tr><td>15</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>EA</td><td>BUSHING, GROUNDING 3/4", INSULATED THROAT, GROUND WIRE RANGE #4-#14 AWG</td><td>16CONF990045</td></tr> </tbody> </table>										ITEM	L20A QTY	L20B QTY	L20C QTY	L20D QTY	L20E QTY	L20F QTY	L20G QTY	L20H QTY	UNIT		TPENG ITEM CODE	1	1	-	-	1	-	-	1	-	EA	LED LINEAR ,BRACKET MOUNT ,25 DEG. ANGLE, 30W, CL. I, DIV. 2, A,B,C,D, 100-240VAC, 5700K	16LTGB990111	2	-	1	-	-	1	-	-	1	EA	LED LINEAR , BRACKET MOUNT ,25 DEG. ANGLE, 40W, CL. I, DIV. 2, A,B,C,D, 100-240VAC, 5700K	16LTGB990112	3	-	-	1	-	-	1	-	-	EA	LED LINEAR , BRACKET MOUNT ,25 DEG. ANGLE, 60W, CL. I, DIV. 2, A,B,C,D, 100-240VAC, 5700K	16LTGB990113	4	4	4	4	-	-	-	-	-	EA	STUD, THREADED, 3/8", X-BT-MR W10/15 SN 8, WITH NUT, 316 STAINLESS STEEL	16HWRX260009	5	4	4	4	-	-	-	4	4	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED	16STUS060064	6	4	4	4	4	4	4	4	4	EA	CONDUIT STRAP, 3/4" SS WITH SS6 HARDWARE, USE WITH 1 5/8" STRUT CHANNEL	16STUA260014	7	5	5	5	5	5	5	5	5	FT	CONDUIT 3/4", RIGID GALVANIZED STEEL	16CONSO50020	8	-	-	-	4	4	4	-	-	FT	STRUT, HS-1-5/8" X 1-5/8", 12 GAUGE, HDG	16STUS060056	9	-	-	-	4	4	4	-	-	EA	STUD, THREADED, 8MM, X-BT-GR M8/7 SN 8, W/O NUT, 316 STAINLESS STEEL	16HWRX260098	10	-	-	-	4	4	4	-	-	EA	STAND-OFF ADAPTOR, HILTI, M8-MF 25, 1" LONG, WITH NUT, HDG	16HLTX990001	11	-	-	-	4	4	4	-	-	EA	PLATE, MQZ-L9-F	16HLTX990003	12	1	1	1	1	1	1	1	1	EA	FITTING, CONDUIT BODY 3/4", TYPE "T", FORM 8, IRON ALLOY WITH COVER AND GASKET	16CONF150181	13	1	1	1	1	1	1	1	1	EA	UNION, CONDUIT, 3/4", TYPE "UNY" MALE/FEMALE	16CONF990203	14	-	-	-	-	-	-	4	4	EA	EXPANSION ANCHOR, 3/8" x 1-1/2", 316 STAINLESS STEEL, WITH FLAT WASHER AND NUT	16HWRX260166	15	2	2	2	2	2	2	2	2	EA	BUSHING, GROUNDING 3/4", INSULATED THROAT, GROUND WIRE RANGE #4-#14 AWG	16CONF990045
ITEM	L20A QTY	L20B QTY	L20C QTY	L20D QTY	L20E QTY	L20F QTY	L20G QTY	L20H QTY	UNIT		TPENG ITEM CODE																																																																																																																																																																																															
1	1	-	-	1	-	-	1	-	EA	LED LINEAR ,BRACKET MOUNT ,25 DEG. ANGLE, 30W, CL. I, DIV. 2, A,B,C,D, 100-240VAC, 5700K	16LTGB990111																																																																																																																																																																																															
2	-	1	-	-	1	-	-	1	EA	LED LINEAR , BRACKET MOUNT ,25 DEG. ANGLE, 40W, CL. I, DIV. 2, A,B,C,D, 100-240VAC, 5700K	16LTGB990112																																																																																																																																																																																															
3	-	-	1	-	-	1	-	-	EA	LED LINEAR , BRACKET MOUNT ,25 DEG. ANGLE, 60W, CL. I, DIV. 2, A,B,C,D, 100-240VAC, 5700K	16LTGB990113																																																																																																																																																																																															
4	4	4	4	-	-	-	-	-	EA	STUD, THREADED, 3/8", X-BT-MR W10/15 SN 8, WITH NUT, 316 STAINLESS STEEL	16HWRX260009																																																																																																																																																																																															
5	4	4	4	-	-	-	4	4	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED	16STUS060064																																																																																																																																																																																															
6	4	4	4	4	4	4	4	4	EA	CONDUIT STRAP, 3/4" SS WITH SS6 HARDWARE, USE WITH 1 5/8" STRUT CHANNEL	16STUA260014																																																																																																																																																																																															
7	5	5	5	5	5	5	5	5	FT	CONDUIT 3/4", RIGID GALVANIZED STEEL	16CONSO50020																																																																																																																																																																																															
8	-	-	-	4	4	4	-	-	FT	STRUT, HS-1-5/8" X 1-5/8", 12 GAUGE, HDG	16STUS060056																																																																																																																																																																																															
9	-	-	-	4	4	4	-	-	EA	STUD, THREADED, 8MM, X-BT-GR M8/7 SN 8, W/O NUT, 316 STAINLESS STEEL	16HWRX260098																																																																																																																																																																																															
10	-	-	-	4	4	4	-	-	EA	STAND-OFF ADAPTOR, HILTI, M8-MF 25, 1" LONG, WITH NUT, HDG	16HLTX990001																																																																																																																																																																																															
11	-	-	-	4	4	4	-	-	EA	PLATE, MQZ-L9-F	16HLTX990003																																																																																																																																																																																															
12	1	1	1	1	1	1	1	1	EA	FITTING, CONDUIT BODY 3/4", TYPE "T", FORM 8, IRON ALLOY WITH COVER AND GASKET	16CONF150181																																																																																																																																																																																															
13	1	1	1	1	1	1	1	1	EA	UNION, CONDUIT, 3/4", TYPE "UNY" MALE/FEMALE	16CONF990203																																																																																																																																																																																															
14	-	-	-	-	-	-	4	4	EA	EXPANSION ANCHOR, 3/8" x 1-1/2", 316 STAINLESS STEEL, WITH FLAT WASHER AND NUT	16HWRX260166																																																																																																																																																																																															
15	2	2	2	2	2	2	2	2	EA	BUSHING, GROUNDING 3/4", INSULATED THROAT, GROUND WIRE RANGE #4-#14 AWG	16CONF990045																																																																																																																																																																																															
2	 <p>STEEL STRUCTURE</p> <p>TC-ER CABLE</p> <p>CABLE GLAND</p> <p>1 OR 2 OR 3 (NOTES 1,2)</p> <p>DETAIL L20A/L20B/L20C FIXTURE MOUNTED ON STEEL</p>																																																																																																																																																																																																									
3	 <p>STEEL STRUCTURE</p> <p>TC-ER CABLE</p> <p>CABLE GLAND</p> <p>1 OR 2 OR 3 (NOTES 1,2)</p> <p>DETAIL L20D/L20E/L20F FIXTURE MOUNTED ON FIREPOOFED STEEL</p>																																																																																																																																																																																																									
4	 <p>CONCRETE</p> <p>TC-ER CABLE</p> <p>CABLE GLAND</p> <p>1 OR 2 OR 3 (NOTES 1,2)</p> <p>DETAIL A</p> <p>DETAIL L20G/L20H/L20I FIXTURE MOUNTED ON CONCRETE OR COLUMN</p>																																																																																																																																																																																																									
5	 <p>14</p> <p>5</p> <p>7</p> <p>6</p> <p>15</p> <p>13</p> <p>12</p> <p>1</p> <p>2</p> <p>3</p> <p>DETAIL A</p>																																																																																																																																																																																																									
6	<table border="1"> <tr><td>A</td><td>ISSUED FOR REVIEW</td><td>10-02-2023</td><td>FV</td><td>LNW</td><td>VV</td><td>VVA</td></tr> <tr><td>REV</td><td>REVISION DESCRIPTION</td><td>DATE</td><td>DRAWN</td><td>CHECKED</td><td>APPROVED</td><td>PROJ APR</td></tr> <tr><td colspan="7">CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS EXCLUDED FROM CONFIDENTIALITY INFORMATION BY THE CONTRACT. USE OF THE INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES NV, AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.</td></tr> <tr><td colspan="7">CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA</td></tr> <tr><td colspan="7">TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS LINEAR BRACKET MOUNTED TYPE ON STEEL STRUCTURE/CONCRETE FOR HAZARDOUS AREA CLASSIFICATION "L20"</td></tr> <tr><td colspan="7">DRAWN BY</td></tr> <tr><td colspan="7">FV</td></tr> <tr><td colspan="7">TECHNIP ENERGIES NUMBER</td></tr> <tr><td colspan="7">REVISION</td></tr> <tr><td colspan="7">078051C 078051C-000-STD-1683-0001-24 A</td></tr> </table>								A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA	REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR	CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS EXCLUDED FROM CONFIDENTIALITY INFORMATION BY THE CONTRACT. USE OF THE INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES NV, AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.							CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA							TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS LINEAR BRACKET MOUNTED TYPE ON STEEL STRUCTURE/CONCRETE FOR HAZARDOUS AREA CLASSIFICATION "L20"							DRAWN BY							FV							TECHNIP ENERGIES NUMBER							REVISION							078051C 078051C-000-STD-1683-0001-24 A																																																																																																																																		
A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA																																																																																																																																																																																																				
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR																																																																																																																																																																																																				
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS EXCLUDED FROM CONFIDENTIALITY INFORMATION BY THE CONTRACT. USE OF THE INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES NV, AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.																																																																																																																																																																																																										
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA																																																																																																																																																																																																										
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS LINEAR BRACKET MOUNTED TYPE ON STEEL STRUCTURE/CONCRETE FOR HAZARDOUS AREA CLASSIFICATION "L20"																																																																																																																																																																																																										
DRAWN BY																																																																																																																																																																																																										
FV																																																																																																																																																																																																										
TECHNIP ENERGIES NUMBER																																																																																																																																																																																																										
REVISION																																																																																																																																																																																																										
078051C 078051C-000-STD-1683-0001-24 A																																																																																																																																																																																																										

L21

1

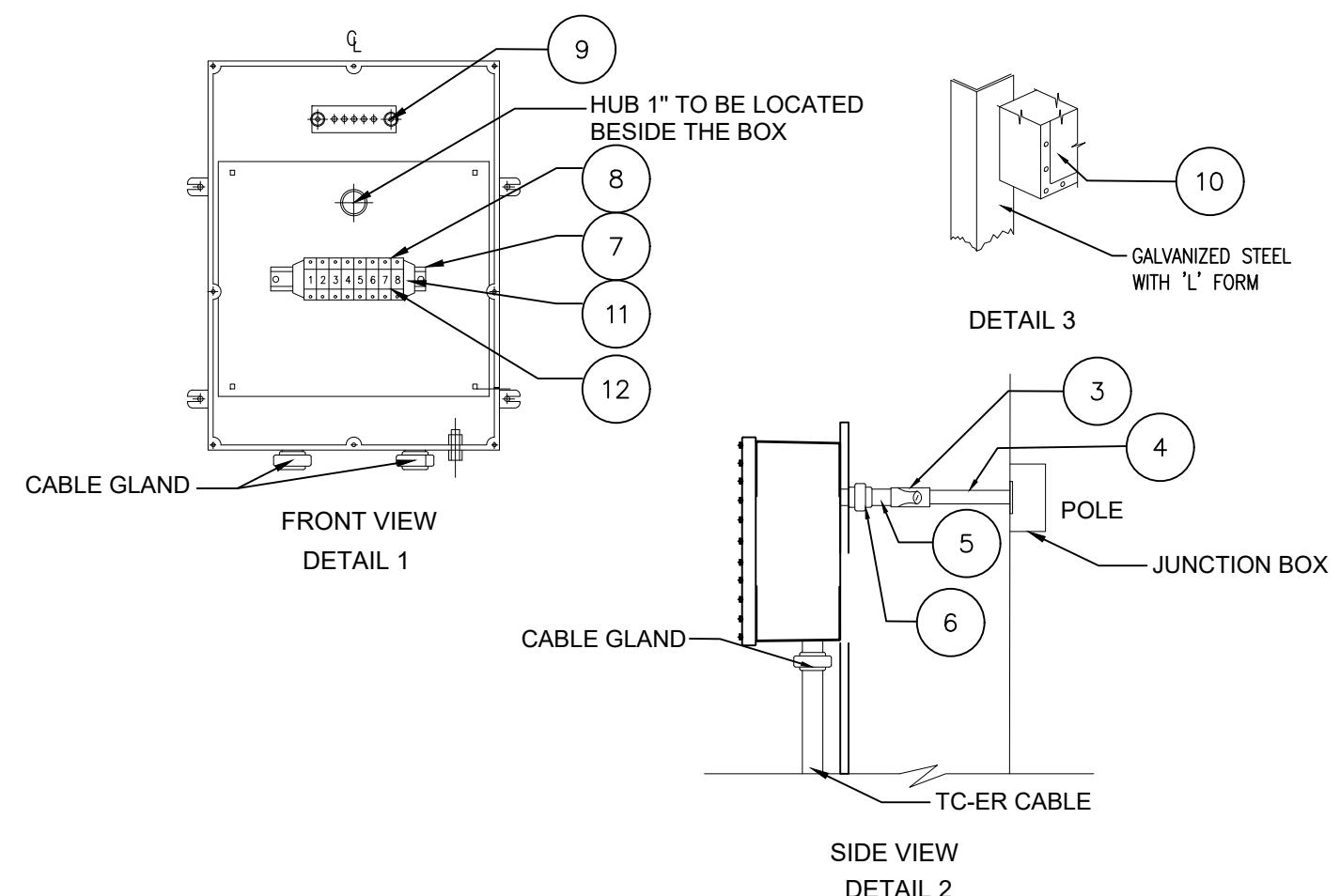
NOTES:

1. FOR MOUNTING HEIGHT SEE PLAN DWG. 078051C-1000-DW-1632. 078051C-1000-DW-1632.
2. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65.
3. ALL FITTINGS SHALL BE 3/4", IF NOT OTHERWISE SPECIFIED
4. CONCRETE FOUNDATION AND ANCHOR BOLT SIZE AND PATTERN SHALL BE SHOWN ON CIVIL STRUCTURAL DRAWINGS BASED ON POLE VENDOR DATA OBTAINED FROM ELECTRICAL GROUP
5. FOR LIGHTING POLE GROUNDING SEE GROUNDING DETAIL.
6. SEE BULK MATERIAL MR (MATERIAL REQUISITION) FOR CABLE GLANDS AND JUNCTION BOX DEFINITIONS.



ITEM	L21 QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE
1	1	EA	DIALIGHT, STREET LIGHT, MONGOOSE, ATEX, 12,500 LUMENS, 100-277V AC, 125W, CL I , DIV 2	16LTGP990154
2	1	EA	POLE, ROUND TAPERED, ALUMINUM, 30FT, WITH FIXED TENON	16LGTP010024
3	1	EA	SEAL, 1" TYPE "EYS", VERTICAL/HORIZONTAL,FEMALE	16CONF990383
4	*	FT	CONDUIT 1", RIGID GALVANIZED STEEL	16CONS050021
5	1	EA	NIPPLE, CONDUIT, 1" X CLOSE	16CONF990213
6	1	EA	UNION, CONDUIT, 1", TYPE "UNY" MALE/FEMALE	16CONF990199
7	*	FT	DIN RAIL PERFORATED-NS, 1,4"X06"	16SPTS100016
8	1	EA	FEED-THROUGHT TERMINAL BLOCK-ST6	16HWRX260171
9	1	EA	COPPER BUSBAR, GROUNDING, 1/4" X 1.5" X 144"	16GRNF030147
10	1	EA	JUNCTION BOX, FOR STREET LIGHT POLE, NEMA 4X+7, CL I DIV 2, 12" X 12" X 6", INCLUDE BREATHERS AND DRAINS	16JBXX990028
11	*	EA	PLUG IN BRIDGE, FBS, 2-8, TYPE JUMPER	16HWRX260172
12	2	EA	END CLAMP, CLIPFIX 35	16HWRX260173
13	1	EA	BUSHING, GROUNDING 1", INSULATED THROAT, GROUND WIRE RANGE #4 - #14 AWG	16CONF990046

*As required



A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VW	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL						
INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. THIS INFORMATION IS CONFIDENTIAL AND IS PROVIDED TO THE CONTRACTOR FOR USE ONLY AND FOR THE CONTRACT. USE OF THIS INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES NV, AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT						
COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						
TITLE						
ELECTRICAL LIGHTING INSTALLATION DETAILS LED STREET LIGHTING ON POLE MOUNTED FOR HAZARDOUS AREA CLASSIFICATION "L21"						
Scale						
Client Number						
FV						
Project Number						
Technip Energies Number						
Revision						
078051C						
078051C-000-STD-1683-0001-25						
A						

A

B

C

D

E

F

G

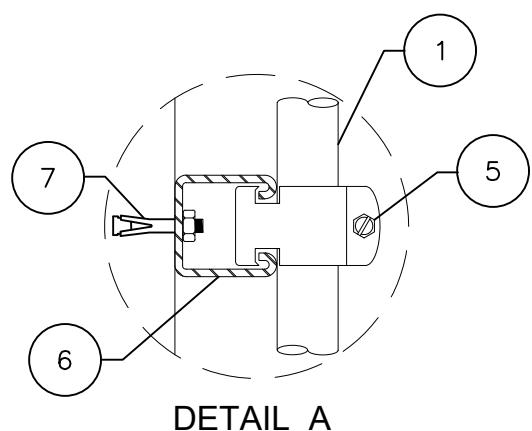
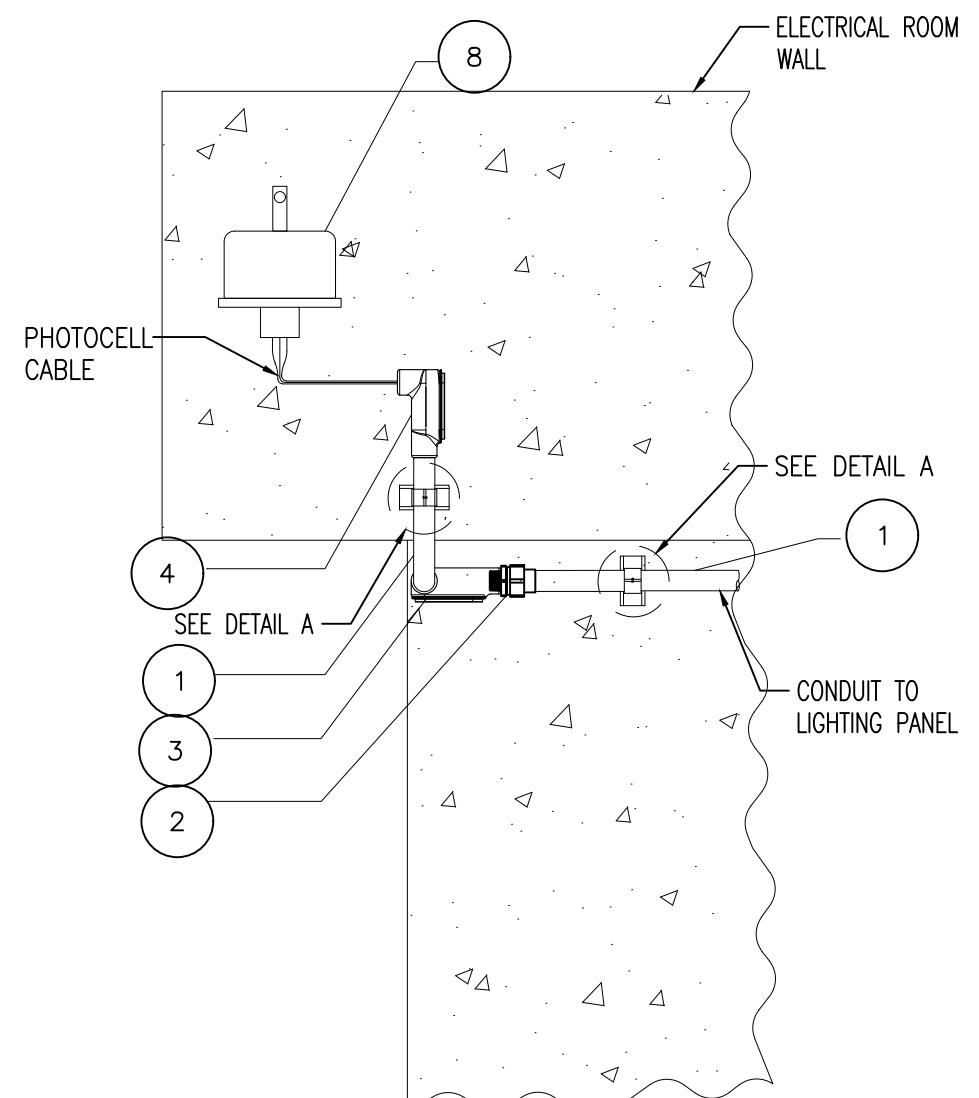
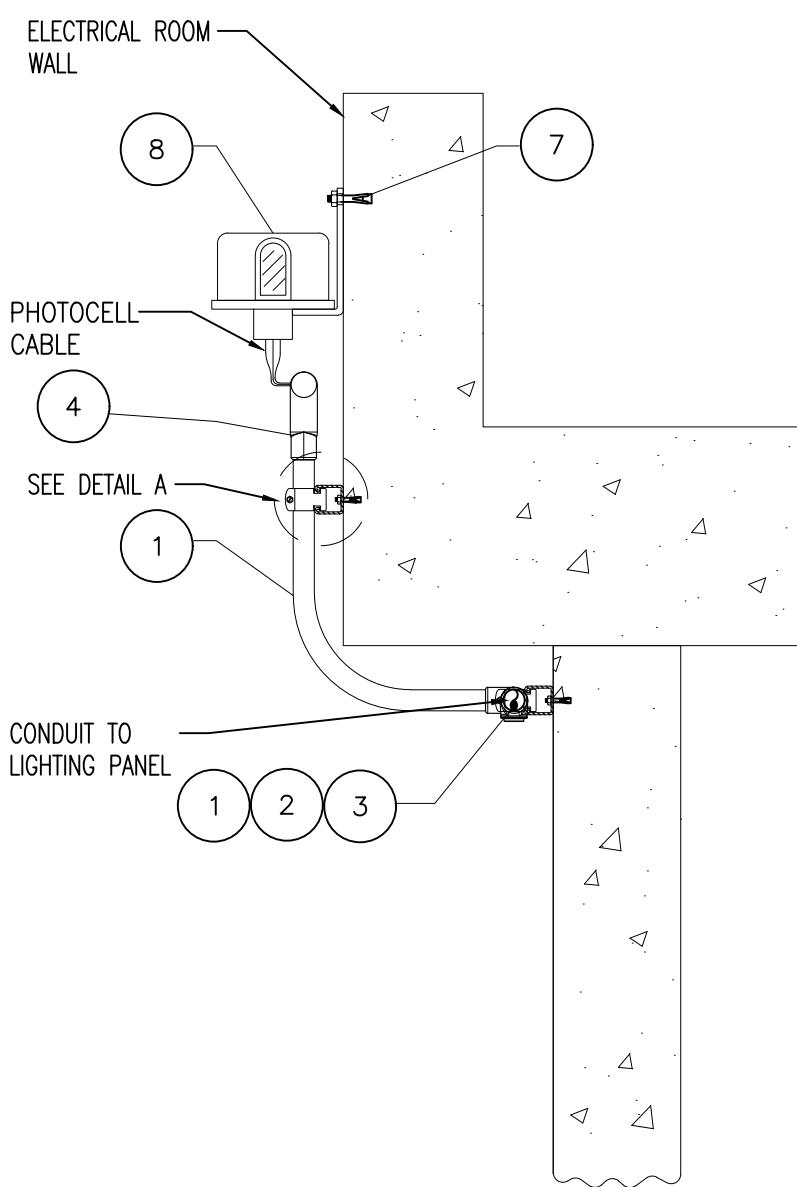
H

J

K

L22

ITEM	L22 QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE
1	*	FT	CONDUIT 3/4", RIGID GALVANIZED STEEL	16CONS050020
2	1	EA	UNION, CONDUIT, 3/4", TYPE "UNY" MALE/FEMALE	16CONF990203
3	4	EA	FITTING, CONDUIT BODY 3/4", TYPE "LL", FORM 8, IRON ALLOY	16CONF150109
4	4	EA	FITTING, CONDUIT BODY 3/4", TYPE "LB", FORM 8, IRON ALLOY WITH COVER AND GASKET	16CONF150101
5	1	EA	CLAMP, 3/4", FOR 3/4" CONDUIT, HDG	16CONA990403
6	1	EA	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED	16STUS060064
7	1	EA	EXPANSION ANCHOR, 3/8" x 1-1/2", 316 STAINLESS STEEL, WITH FLAT WASHER AND NUT	16HWRX260166
8	1	EA	PHOTOCELL, CL I, DIV 2 (ON FIXTURE SCHEDULE ON SHEET 65)	16LTGO990074

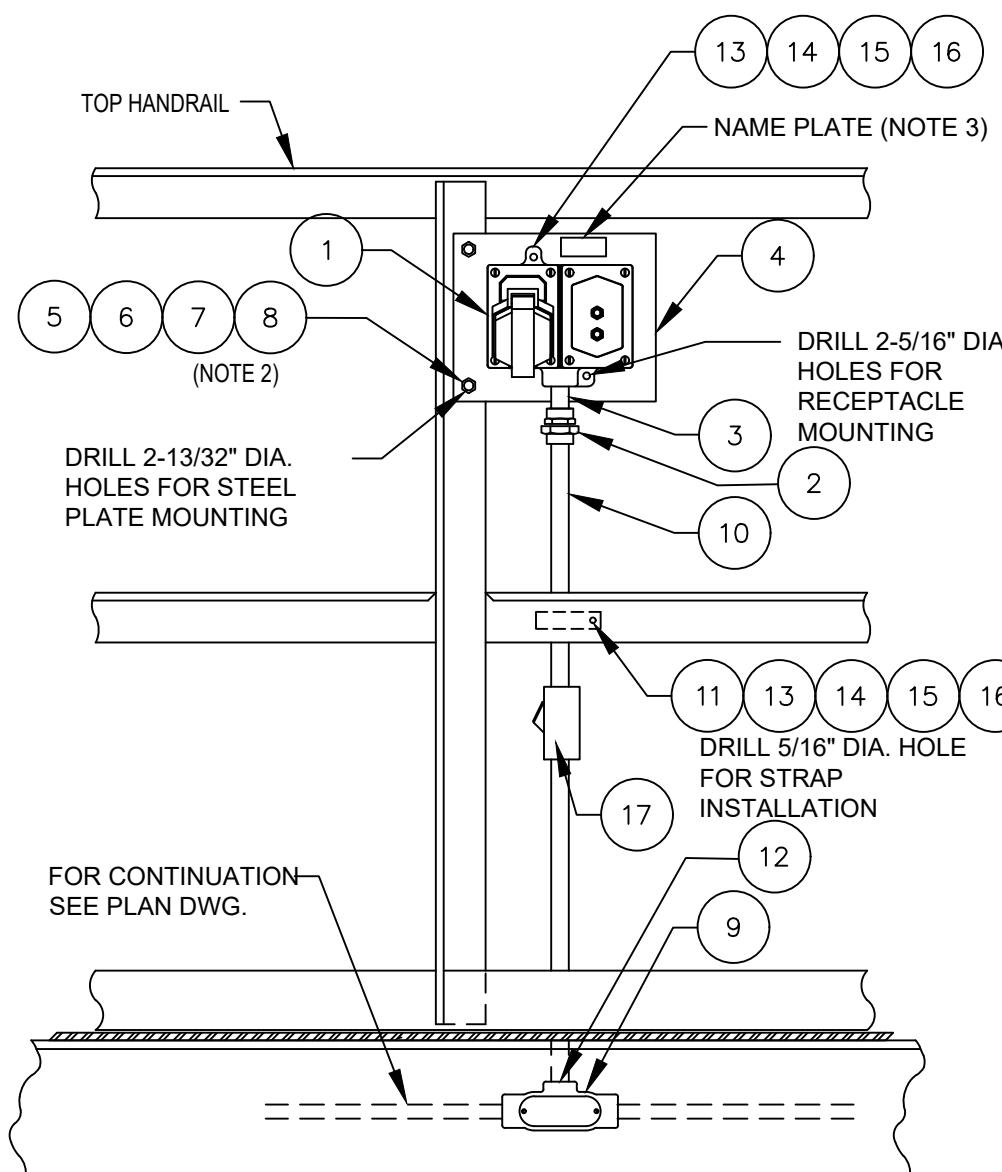


A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VW	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. THIS INFORMATION IS PROPRIETARY AND CONFIDENTIAL. IT IS TO BE KEPT SECURE AND NOT DISCLOSED EXCEPT AS PROVIDED BY THE CONTRACT. TECHNIP ENERGY'S AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS PHOTOCELL SWITCH FOR HAZARDOUS AREA CLASSIFICATION "L22"						
SCALE	CLIENT NUMBER	DRAWN BY				
		FV				
PROJECT NUMBER	TECHNIP ENERGIES NUMBER	REVISION				
078051C	078051C-000-STD-1683-0001-26	A				

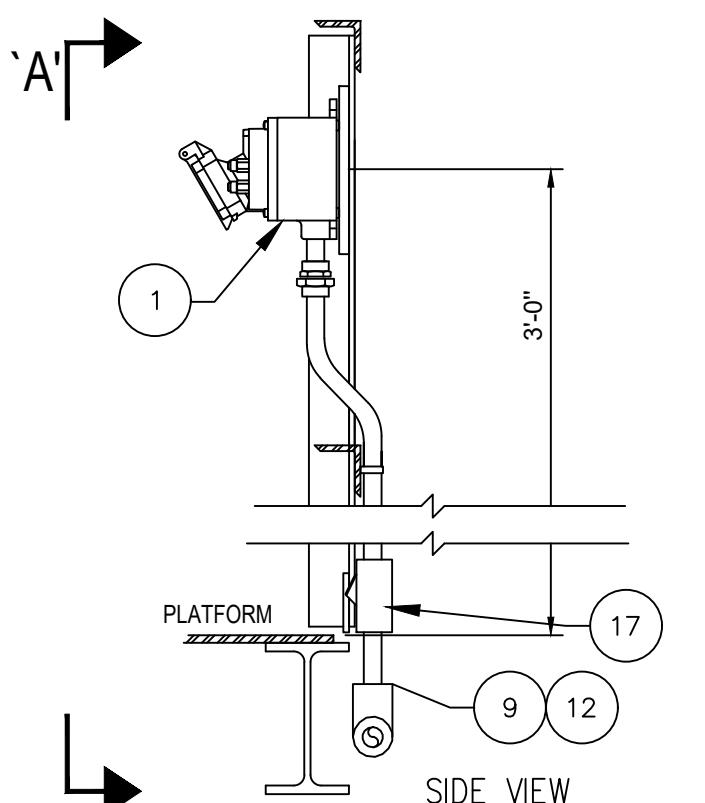
L23

NOTES:

1. ALL STEEL HARDWARE SHALL BE 316 STAINLESS STEEL UNLESS OTHERWISE SPECIFIED.
2. DRILL STRUCTURAL STEEL AS REQ'D. AND PAINT DRILLING W/ ZINC RICH EPOXY.
3. FOR NAME PLATE TAG SEE DETAIL A.

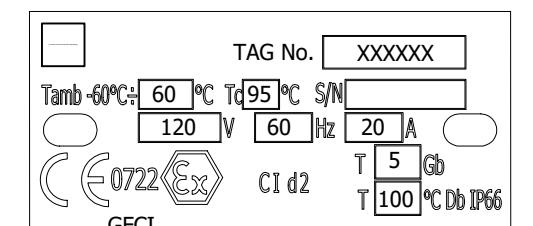


SECTION "A-A"



BILL OF MATERIAL				TPENG ITEM CODE
ITEM	L23 QTY	UNIT		
1	1	EA	RECEPTACLE GFCI KIT, FACTORY SEALED, 20A., 120VAC, 3/4" NPT. DEAD END, CL 1, DIV 2, GROUPS B, C & D	16LTGR990060
2	1	EA	UNION, CONDUIT, 3/4", TYPE "UNY" MALE/FEMALE	16CONF990203
3	1	EA	NIPPLE, CONDUIT, 3/4" X CLOSE	16CONF990216
4	1	EA	STEEL PLATE, GALVANIZED, 1/4" X 8" X 10"	16SPTS060012
5	2	EA	MACHINE BOLT 3/8" X 1", HEX HEAD NC THREADS 316 STAINLESS STEEL	16HWRX260083
6	2	EA	WASHER, FLAT 3/8" 316 STAINLESS STEEL	16HWRX260061
7	2	EA	WASHER, LOCK 3/8" 316 STAINLESS STEEL	16HWRX260082
8	2	EA	NUT, HEX HEAD, 3/8" 316 STAINLESS STEEL	16HWRX260050
9	1	EA	FITTING, CONDUIT BODY 1 1/2", TYPE "T", FORM 8, IRON ALLOY WITH COVER AND GASKET	16CONF150185
10	4	FT	CONDUIT 3/4", RIGID GALVANIZED STEEL	16CONS050020
11	1	EA	ONE HOLE CONDUIT STRAP, 3/4" - 316 STAINLESS STEEL	16CONF260039
12	3	EA	REDUCER, CONDUIT, 1 1/2" X 3/4"	16CONF140138
13	3	EA	MACHINE BOLT 1/4" X 1", HEX HEAD NC THREADS 316 STAINLESS STEEL	16HWRX260043
14	3	EA	WASHER, FLAT 1/4" 316 STAINLESS STEEL	16HWRX260060
15	3	EA	WASHER, LOCK 1/4" 316 STAINLESS STEEL	16HWRX260069
16	3	EA	NUT, HEX HEAD, 1/4" 316 STAINLESS STEEL	16HWRX260049
17	1	EA	SEAL, 3/4" TYPE "EYS", VERTICAL/HORIZONTAL,FEMALE	16CONF990417

NAME PLATE TAG



DETAIL A

A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. THIS DOCUMENT CONTAINS CONFIDENTIAL INFORMATION OWNED BY THE TECHNIP ENERGY GROUP AND/OR ITS CLIENT. USE OF THIS INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES NV, AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS GFCI RECEPTACLE HANDRAIL MOUNTED FOR HAZARDOUS AREA CLASSIFICATION "L23"						
SCALE	CLIENT NUMBER	DRAWN BY				
		FV				
PROJECT NUMBER	TECHNIP ENERGIES NUMBER	REVISION				
078051C	078051C-000-STD-1683-0001-27	A				

A
L24A/B

B

C

D

E

F

G

H

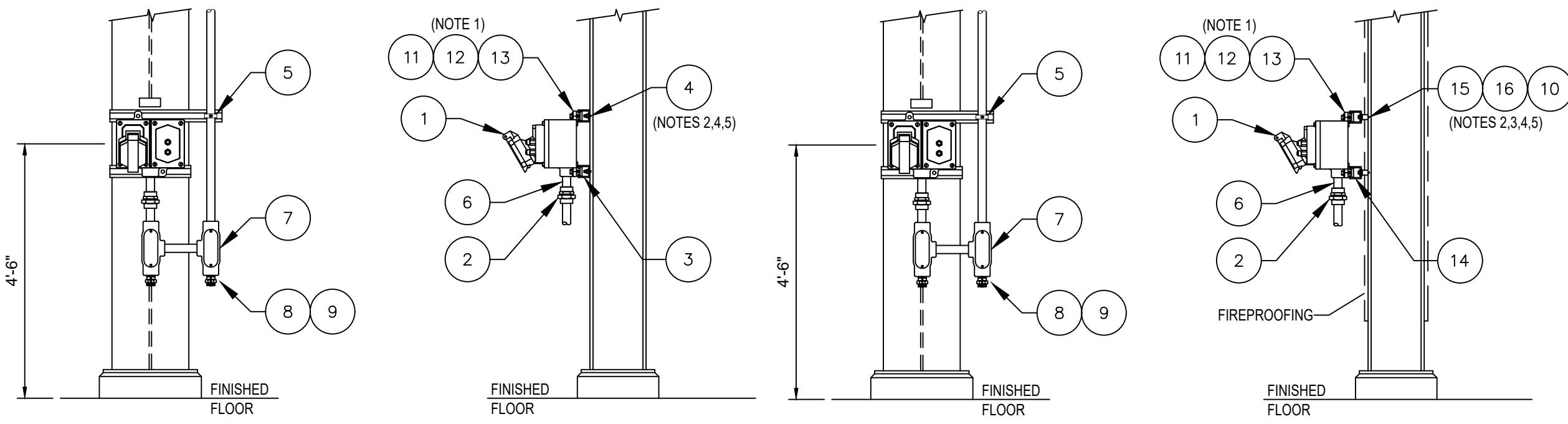
J

K

NOTES:

1. ALL STEEL HARDWARE SHALL BE 316 STAINLESS STEEL UNLESS OTHERWISE SPECIFIED.
2. FOR INSTALLATION OF HILTI STUD STRUCTURAL STEEL MUST BE AT LEAST 5/16" THICK. LOCATE STUD AT LEAST 1/4" MINIMUM FROM EDGE OF STEEL.
3. FIREPROOFING, WHEN PRESENT, TO BE REMOVED AND REPAIRED AFTER CHANNEL INSTALLATION.
4. PRE-DRILLED HOLE MUST BE CLEAR OF ALL DEBRIS, WATER, OIL, ETC. PRIOR TO INSTALLATION OF STUD.
5. INSTALL 3/8" FLANGE NUT USING HILTI RECOMMENDED TORQUE SETTING.
6. FOR NAME PLATE TAG SEE DETAIL A ON SHEET 27.

ITEM	L24A QTY	L24B QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE
1	1	1	EA	RECEPTACLE GFCI KIT, FACTORY SEALED, 20A., 120VAC, 3/4" NPT. DEAD END, CL 1, DIV 2, GROUPS B, C & D	16LTGR990060
2	1	1	EA	UNION, CONDUIT, 3/4", TYPE "UNY" MALE/FEMALE	16CONF990203
3	4	-	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED	16STUS060064
4	4	-	EA	STUD, THREADED, 3/8", X-BT-MR W10/15 SN 8, WITH NUT, 316 STAINLESS STEEL	16HWRX260009
5	1	1	EA	CONDUIT STRAP, 3/4" SS WITH SS6 HARDWARE, USE WITH 1 5/8" STRUT CHANNEL	16STUA260014
6	1	1	EA	NIPPLE, CONDUIT, 3/4" X CLOSE	16CONF990216
7	2	2	EA	FITTING, CONDUIT BODY 3/4", TYPE "T", FORM 8, IRON ALLOY WITH COVER AND GASKET	16CONF150181
8	2	2	EA	REDUCER, CONDUIT, 3/4" X 1/2"	16CONF140152
9	2	2	EA	BREATHER, DRAIN, COMBINATION, 1/2"	16DRNB080001
10	-	4	EA	PLATE, MQZ-L9-F	16HLTX990003
11	2	2	EA	MACHINE BOLT 1/4" X 1 1/2", HEX HEAD NC THREADS 316 STAINLESS STEEL	16HWRX260044
12	2	2	EA	WASHER, LOCK 1/4" 316 STAINLESS STEEL	16HWRX260069
13	2	2	EA	SPRING NUT 1/4-20 316SS	16HWRX260006
14	-	4	FT	STRUT, HS-1-5/8" X 1-5/8", 12 GAUGE, HDG	16STUS060056
15	-	4	EA	STUD, THREADED, 8MM, X-BT-GR M8/7 SN 8, W/O NUT, 316 STAINLESS STEEL	16HWRX260098
16	-	4	EA	STAND-OFF ADAPTOR, HILTI, M8-MF 25, 1" LONG, WITH NUT, HDG	16HLTX990001

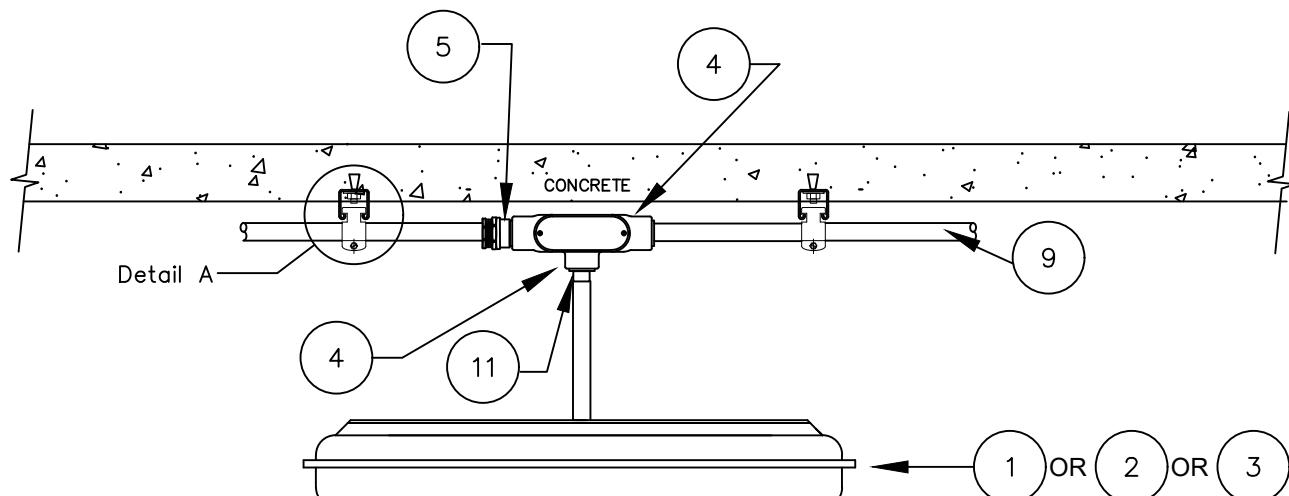


DETAIL L24A
RECEPTACLE MOUNTED ON
STEEL

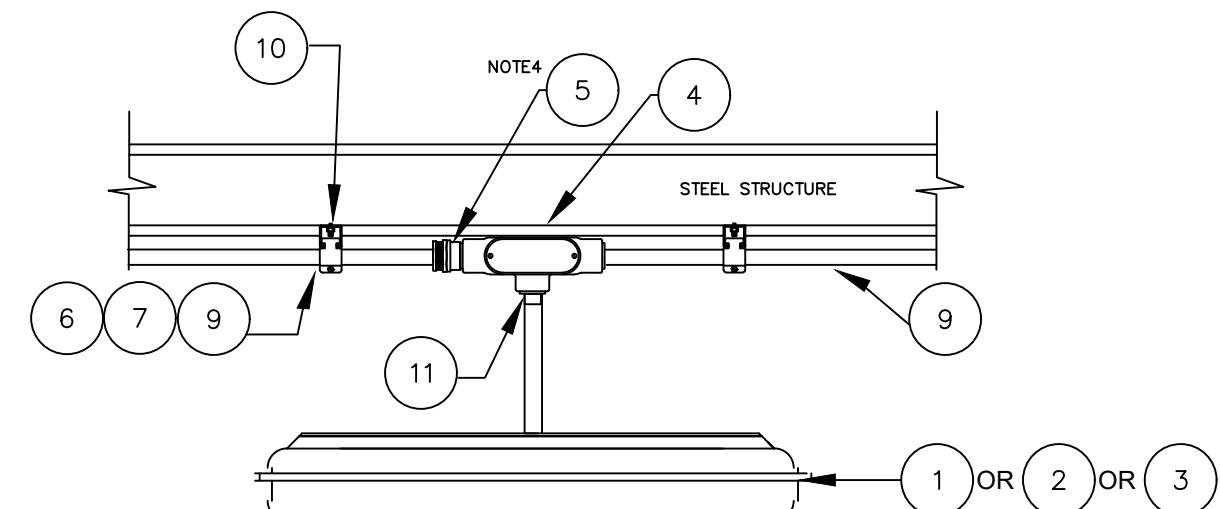
DETAIL L24B
RECEPTACLE MOUNTED ON FIREPROOFED STEEL

A ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA
REV REVISION DESCRIPTION		DATE	DRAWN	CHECKED	APPROVED
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. THIS INFORMATION IS CONFIDENTIAL AND IS PROVIDED FOR INTERNAL USE ONLY. IT MAY NOT BE COPIED AND/OR USED BY ANYONE EXCEPT AS AUTHORIZED BY THE CONTRACT. TECHNIP ENERGY'S AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.					
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA					
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS GFCI RECEPTACLE ON STEEL COLUMN FOR HAZARDOUS AREA CLASSIFICATION "L24"					
TEN TECHNIP ENERGY	COMMONWEALTH LNG				
SCALE	CLIENT NUMBER	DRAWN BY			
		FV			
PROJECT NUMBER	TECHNIP ENERGY'S NUMBER	REVISION			
078051C	078051C-000-STD-1683-0001-28	A			

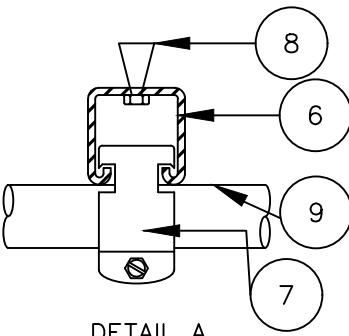
A	B	C	D	E	F	G	H	J	K
L25A/B/C/D/E/F									TPENG ITEM CODE
1									
NOTES:									
1. FOR MOUNTING HEIGHT SEE PLAN DWG. 078051C-1000-DW-1632. 078051C-1000-DW-1632									
2. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65.									
3. FOR INSTALLATION OF HILTI STUD STRUCTURAL STEEL MUST BE AT LEAST 5/16" THICK. LOCATE STUD AT LEAST 1/4" MINIMUM FROM EDGE OF STEEL.									
4. FOR "T" FITTING SIZE REFER TO NOTE SHEET, CHART 1 AND CHART 2 ON SHEET 3.									
2									
11	1	1	1	1	1	1	EA	NIPPLE, CONDUIT, 3/4" X CLOSE	16CONF990216



DETAIL L25A/L25B/L25C
FIXTURE MOUNTED ON CONCRETE



DETAIL L25D/L25E/L25F
FIXTURE MOUNTED ON STEEL

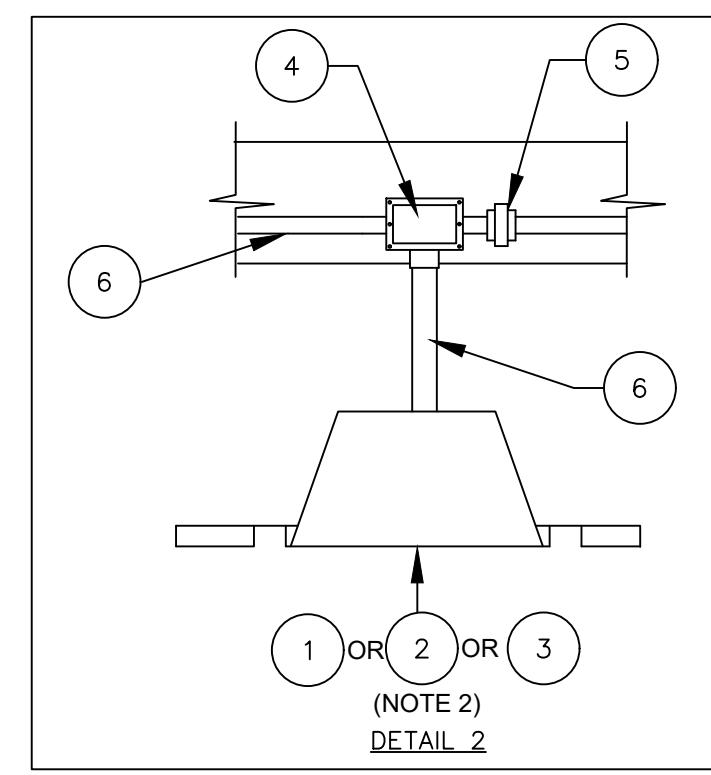
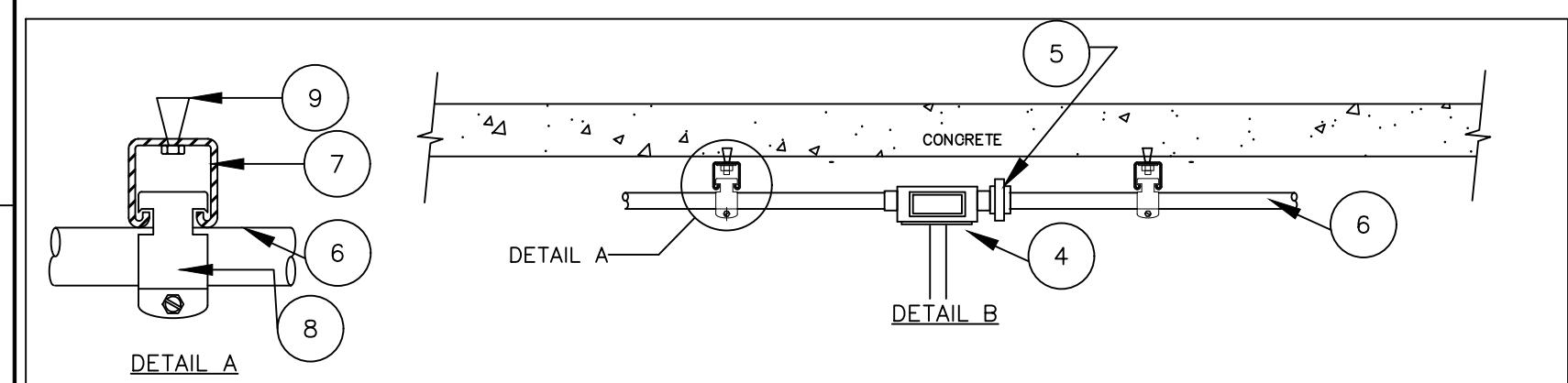
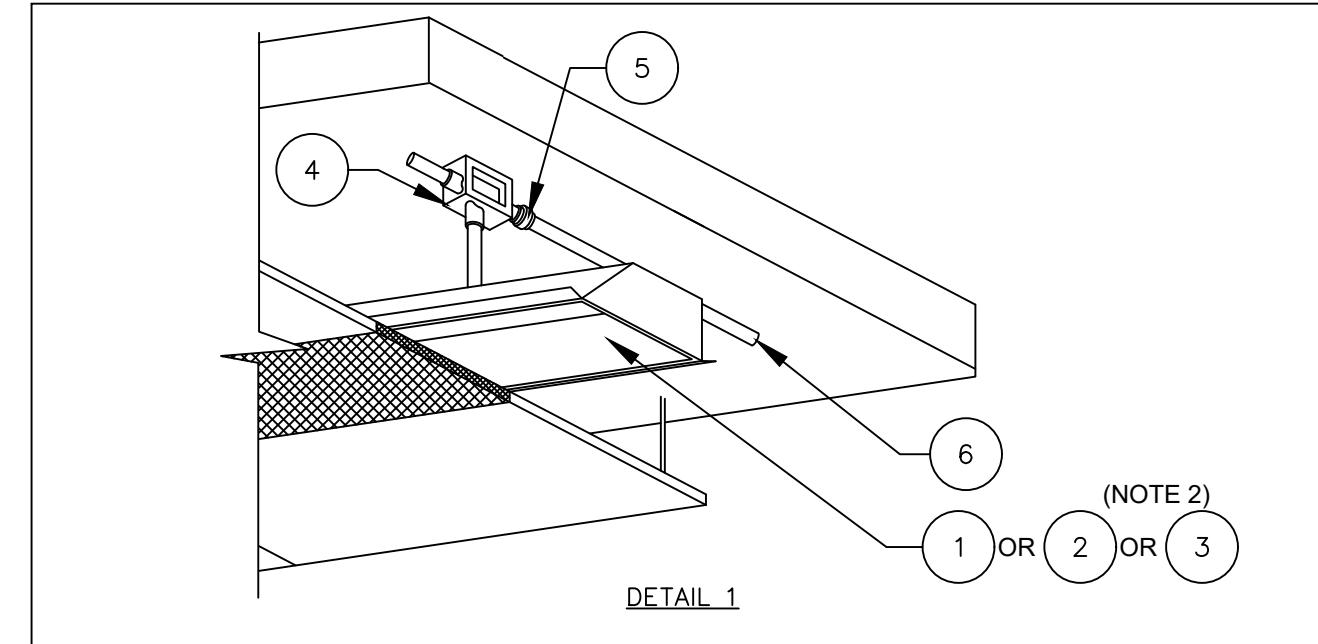
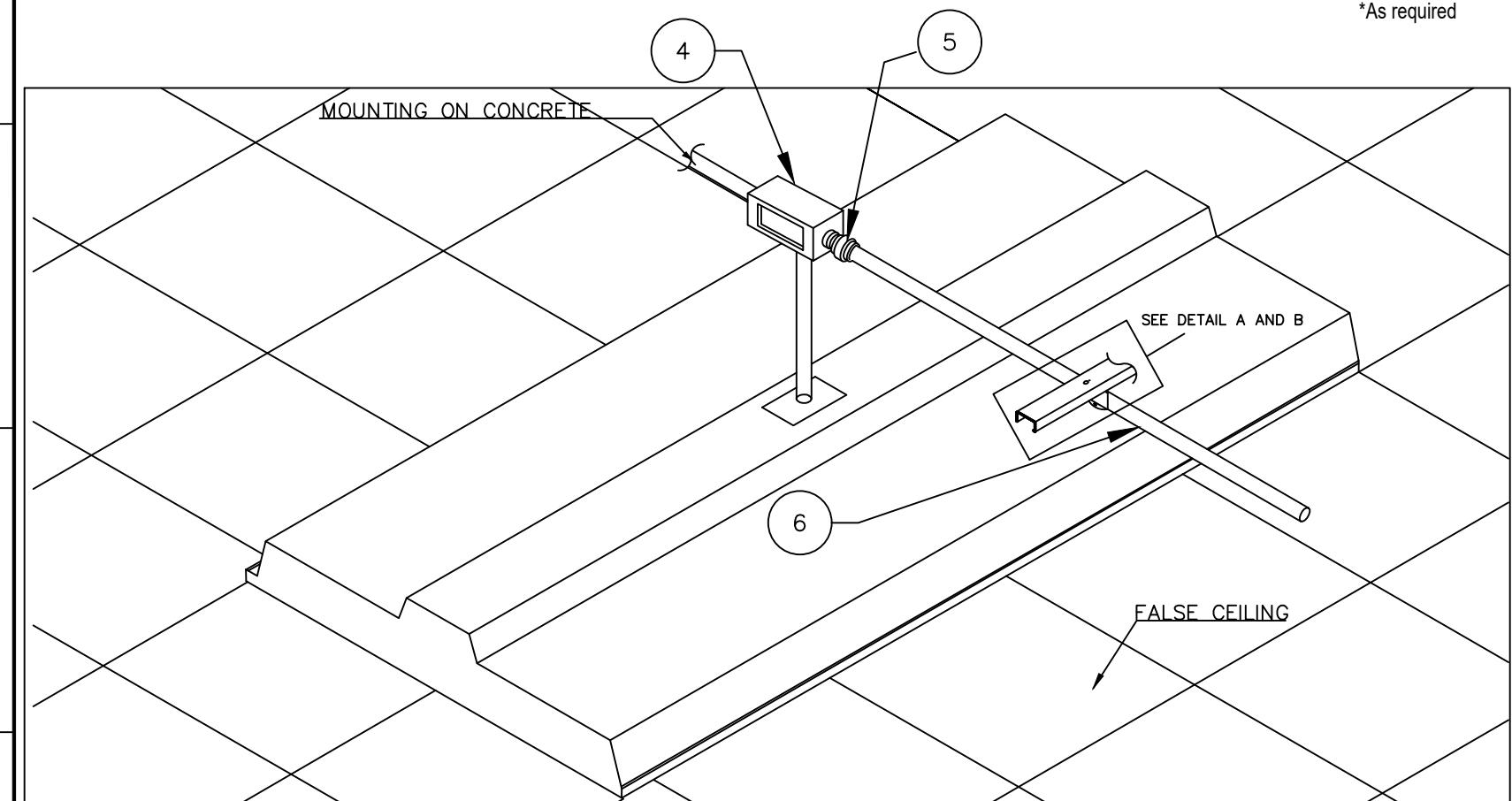


A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. THIS INFORMATION IS CONFIDENTIAL AND IS PROVIDED PURSUANT TO THE CONTRACT BETWEEN THE ENTITY AND/OR ITS CLIENT. USE OF THIS INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES N.V. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS LINEAR PENDANT MOUNTED L.FIXTURE ON STEEL STRUCTURE/CONCRETE FOR HAZARDOUS AREA CLASSIFICATION "L25"						
TEN TECHNIP ENERGIES		COMMONWEALTH LNG				
SCALE	CLIENT NUMBER	DRAWN BY				
		FV				
PROJECT NUMBER	TECHNIP ENERGIES NUMBER	REVISION				
078051C	078051C-000-STD-1683-0001-29	A				

A	B	C	D	E	F	G	H	J	K
L26A/B/C									TPENG ITEM CODE
1	NOTES:								
1	1. FOR MOUNTING HEIGHT SEE PLAN DWG. 078051C-1000-DW-1632.								16LTGH990108
2	2. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65.								16LTGH990109
3	3. FOR "T" FITTING SIZE REFER TO NOTE SHEET, CHART 1 AND CHART 2 ON SHEET 3.								16LTGH990110
2									
3									
4									
5									
6									
7									
8									
9									

ITEM	L26A QTY	L26B QTY	L26C QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE
1	1	-	-	EA	LED LINEAR , PENDANT MOUNT, 30W, CL. I, DIV. 2, A,B,C,D, 100-240VAC, 5700K	16LTGH990108
2	-	1	-	EA	LED LINEAR , PENDANT MOUNT, 40W, CL. I, DIV. 2, A,B,C,D, 100-240VAC, 5700K	16LTGH990109
3	-	-	1	EA	LED LINEAR , PENDANT MOUNT , 60W, CL. I, DIV. 2, A,B,C,D, 100-240VAC, 5700K	16LTGH990110
4	1	1	1	EA	FITTING, CONDUIT BODY 3/4", TYPE "T", FORM 8, IRON ALLOY WITH COVER AND GASKET	16CONF150181
5	1	1	1	EA	UNION, CONDUIT, 3/4", TYPE "UNY" MALE/FEMALE	16CONF990203
6	*	*	*	FT	CONDUIT 3/4", RIGID GALVANIZED STEEL	16CONS050020
7	2	2	2	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED	16STUS060064
8	2	2	2	EA	CONDUIT STRAP, 3/4" SS WITH SS6 HARDWARE, USE WITH 1 5/8" STRUT CHANNEL	16STUA260014
9	2	2	2	EA	EXPANSION ANCHOR, 3/8" x 1-1/2", 316 STAINLESS STEEL, WITH FLAT WASHER AND NUT	16HWRX260166

*As required



A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VW	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS UNAUTHORIZED TO REPRODUCE, DISTRIBUTE, OR OTHERWISE DISCLOSE THE INFORMATION CONTAINED HEREIN, AND/OR ITS CLIENTS. USE OF THIS INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES INC. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS LINEAR LIGHTING IN FALSE CEILING FOR HAZARDOUS AREA CLASSIFICATION "L26"						
DRAWN BY						
FV						
SCALE						
PROJECT NUMBER						
TECHNIP ENERGIES NUMBER						
REVISION						
078051C 078051C-000-STD-1683-0001-30 A						

A

B

C

D

E

F

G

H

J

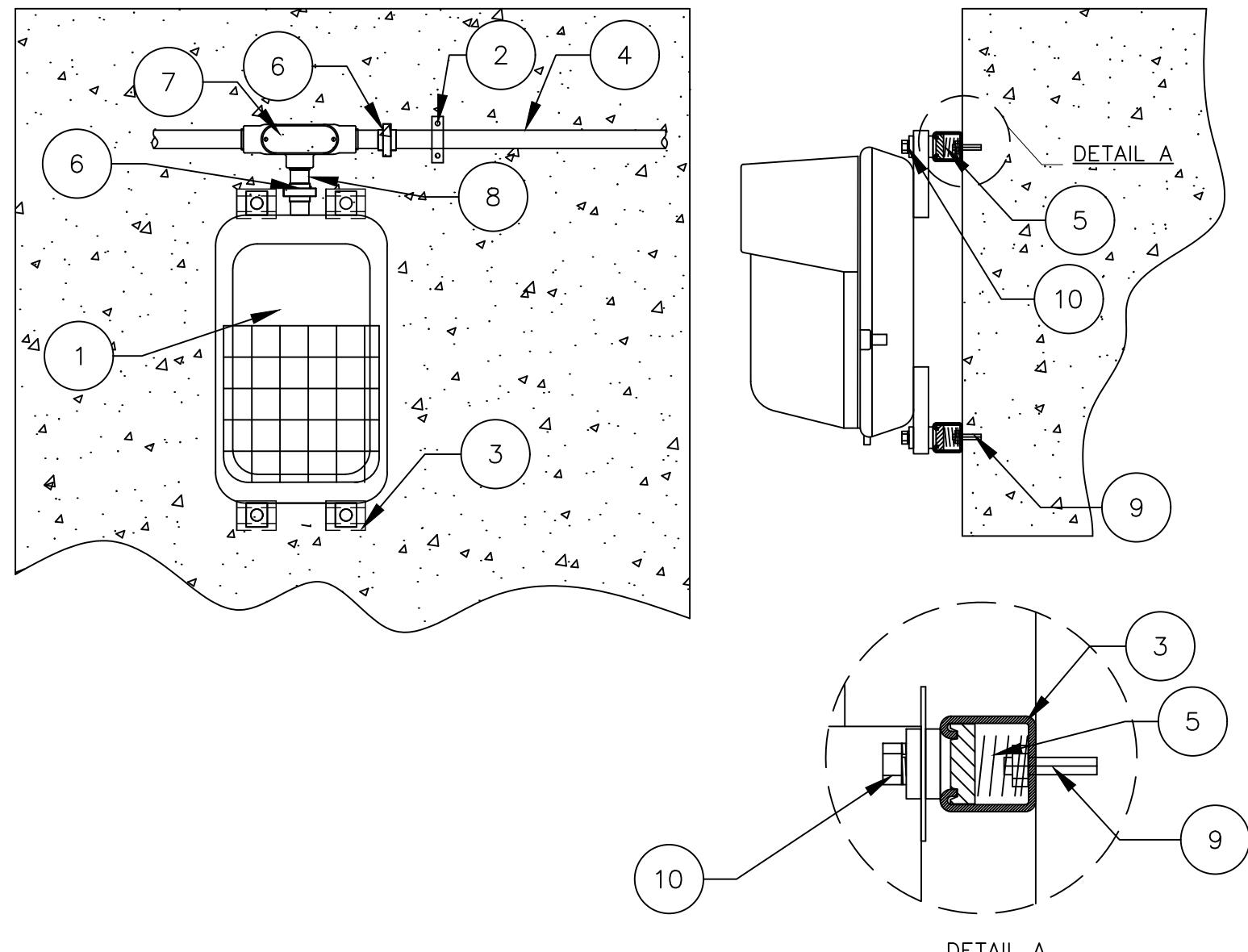
K

L27

ITEM	L27 QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE
1	1	EA	LIGHT FIXTURE, SAFESITE 180 DEG LED WALL MOUNT, GRAY, 5700 LUMENS 52 WATTS, 100-277 VAC, COOL WHITE 5000K, CLEAR GLASS (UL 844 CLASS I, DIV. 2)	16LTGW990066
2	1	EA	U-BOLT, 3/8" X 3/4"X 1 1/2" PIPE, 316 STAINLESS STEEL	16HWRX260167
3	1	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED	16STUS060064
4	10	FT	CONDUIT 3/4", RIGID GALVANIZED STEEL	16CONS050020
5	1	EA	SPRING NUT 3/8-16 316 SS	16HWRX260004
6	2	EA	UNION, CONDUIT, 3/4", TYPE "UNY" MALE/FEMALE	16CONF990203
7	1	EA	FITTING, CONDUIT BODY 3/4", TYPE "T", FORM 8, IRON ALLOY WITH COVER AND GASKET	16CONF150181
8	1	EA	NIPPLE, CONDUIT, 3/4" X CLOSE	16CONF990216
9	1	EA	EXPANSION ANCHOR, 3/8" x 1-1/2", 316 STAINLESS STEEL, WITH FLAT WASHER AND NUT	16HWRX260169
10	1	EA	MACHINE BOLT 3/8" x 1-1/2" HEX HEAD NC THREADS 316 STAINLESS STEEL	16HWRX260135

NOTES:

1. FOR MOUNTING HEIGHT SEE PLAN DWG. 078051C-1000-DW-1632.
2. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65.



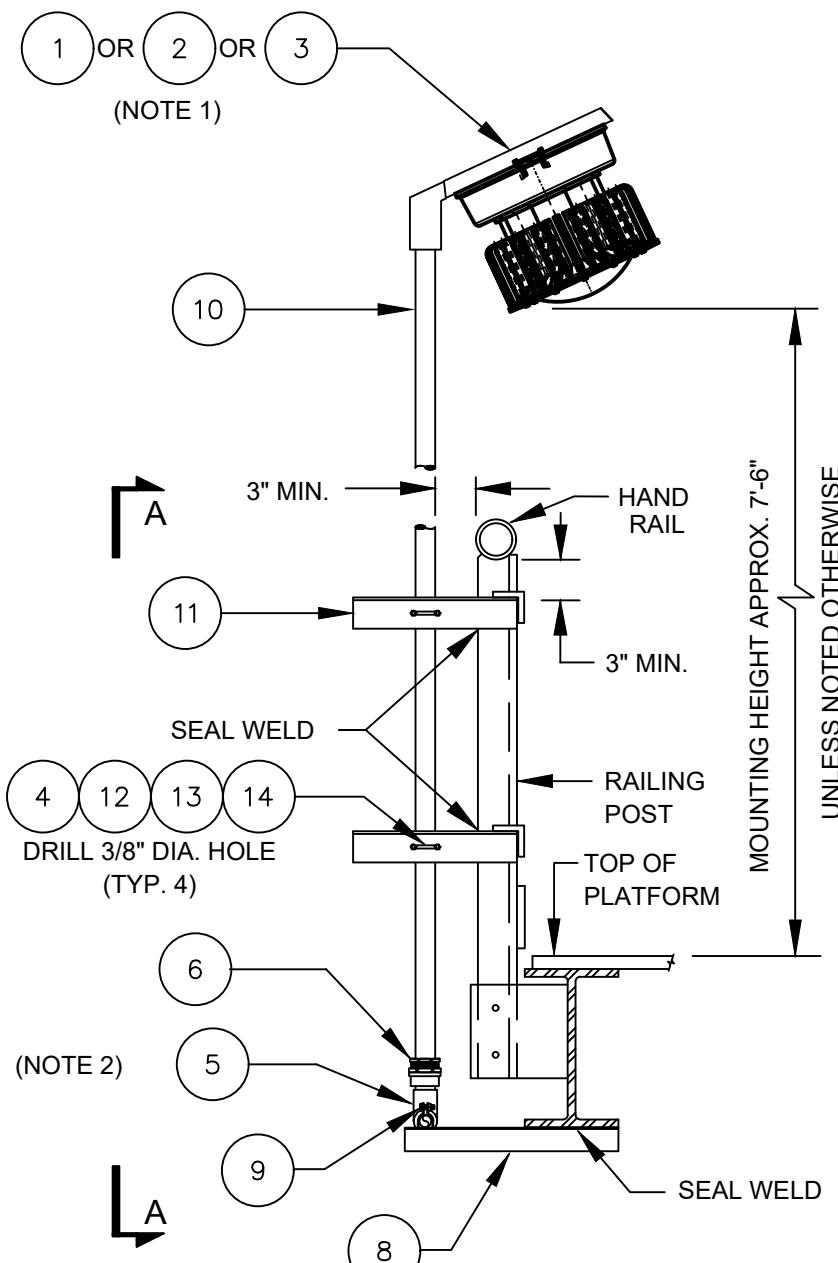
A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS CONFIDENTIAL AND RESTRICTED INFORMATION OWNED BY THE COMPANY AND/OR ITS AFFILIATES AND/OR ITS CLIENT. USE OF THE INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES N.V. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS WALL PACK L. FIXTURE MOUNTED ON CONCRETE FOR HAZARDOUS AREA CLASSIFICATION "L27"						
SCALE	CLIENT NUMBER	DRAWN BY				
		FV				
PROJECT NUMBER	TECHNIP ENERGIES NUMBER	REVISION				
078051C	078051C-000-STD-1683-0001-31	A				

A | B | C | D | E | F | G | H | J | K

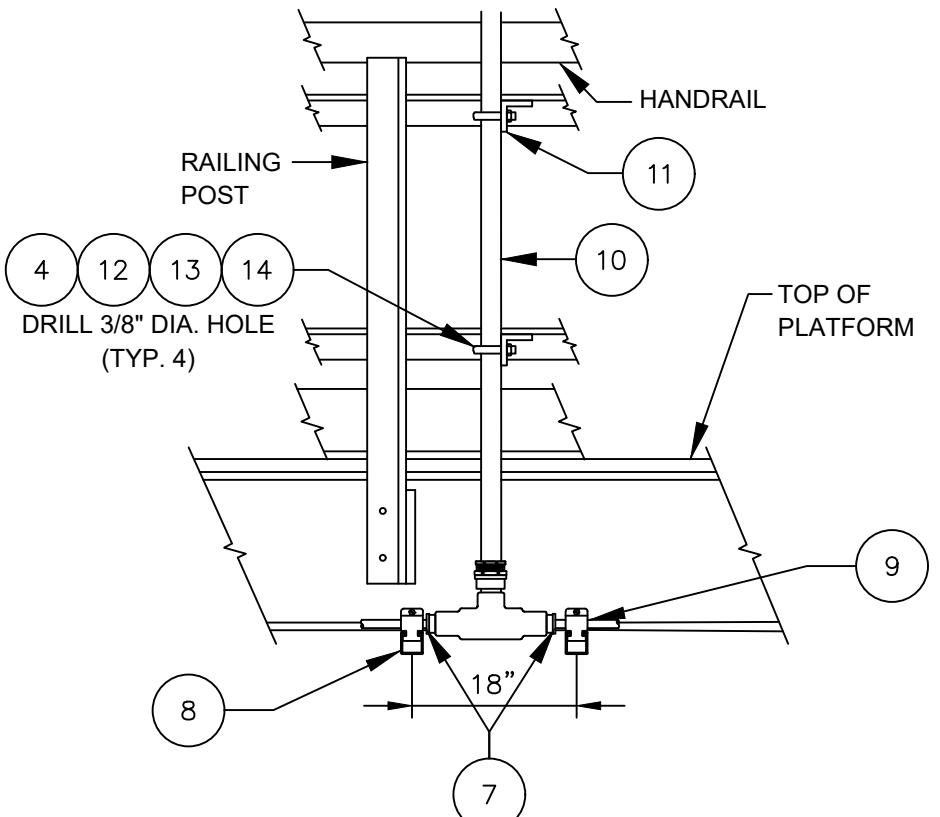
L28A/B/C

NOTES:

1. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65.
2. FOR "T"- FITTING SIZE REFER TO NOTE SHEET, CHART 1 AND CHART 2 ON SHEET 3.



ITEM	L28A QTY	L28B QTY	L28C QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE
1	1	-	-	EA	LED, CHAMP PVMV, STANCHION MOUNT, 25 DEG. ANGLE, 28W, 100-277VAC, 5000K	16LTGS990083
2	-	1	-	EA	LED, CHAMP PVMV, STANCHION MOUNT, 25 DEG. ANGLE, 45W, 100-277VAC, 5000K	16LTGS990084
3	-	-	1	EA	LED, CHAMP PVMV, STANCHION MOUNT, 25 DEG. ANGLE, 61W, 100-277VAC, 5000K	16LTGS990085
4	2	2	2	EA	U-BOLT, 1/4" X 1 1/2", 1 1/2" PIPE, 316 STAINLESS STEEL	16HWRX260123
5	1	1	1	EA	FITTING, CONDUIT BODY 1 1/2", TYPE "T", FORM 8, IRON ALLOY WITH COVER AND GASKET	16CONF150185
6	1	1	1	EA	UNION, CONDUIT, 1 1/2", TYPE "UNY" MALE/FEMALE	16CONF990200
7	2	2	2	EA	REDUCER, CONDUIT, 1 1/2" X 3/4"	16CONF140138
8	3	3	3	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED	16STUS060064
9	2	2	2	EA	CONDUIT STRAP, 3/4" SS WITH SS6 HARDWARE, USE WITH 1 5/8" STRUT CHANNEL	16STUA260014
10	10	10	10	FT	CONDUIT 1 1/2", RIGID GALVANIZED STEEL	16CONS050022
11	2	2	2	FT	STEEL, ANGLE, L3 X 3 X 1/4, ASTM A36, HDG	16SPTS060009
12	4	4	4	EA	WASHER, FLAT 1/4" 316 STAINLESS STEEL	16HWRX260060
13	4	4	4	EA	WASHER, LOCK 1/4" 316 STAINLESS STEEL	16HWRX260069
14	4	4	4	EA	NUT, HEX HEAD, 1/4" 316 STAINLESS STEEL	16HWRX260049



SECTION A-A

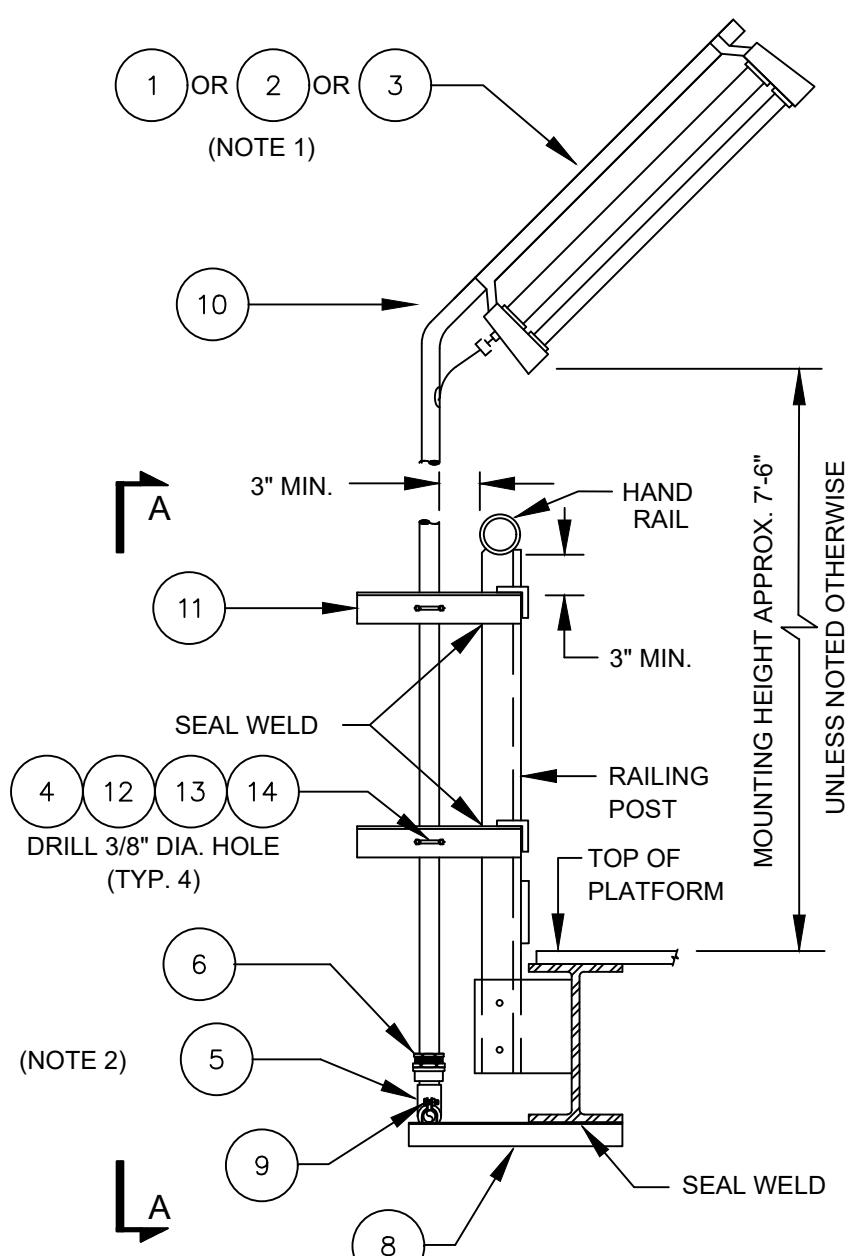
A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS EXCLUDED FROM THE INFORMATION CONTROLLED BY THE CONTRACTUAL AGREEMENTS OF THE COMPANY AND/OR ITS CLIENT. USE OF THIS INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES N.V. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS HANDRAIL MOUNTED STANCHION LIGHT FOR NON-HAZARDOUS AREA CLASSIFICATION "L28"						
SCALE	CLIENT NUMBER	DRAWN BY				
		FV				
PROJECT NUMBER	TECHNIP ENERGIES NUMBER	REVISION				
078051C	078051C-000-STD-1683-0001-32	A				

A | B | C | D | E | F | G | H | J | K

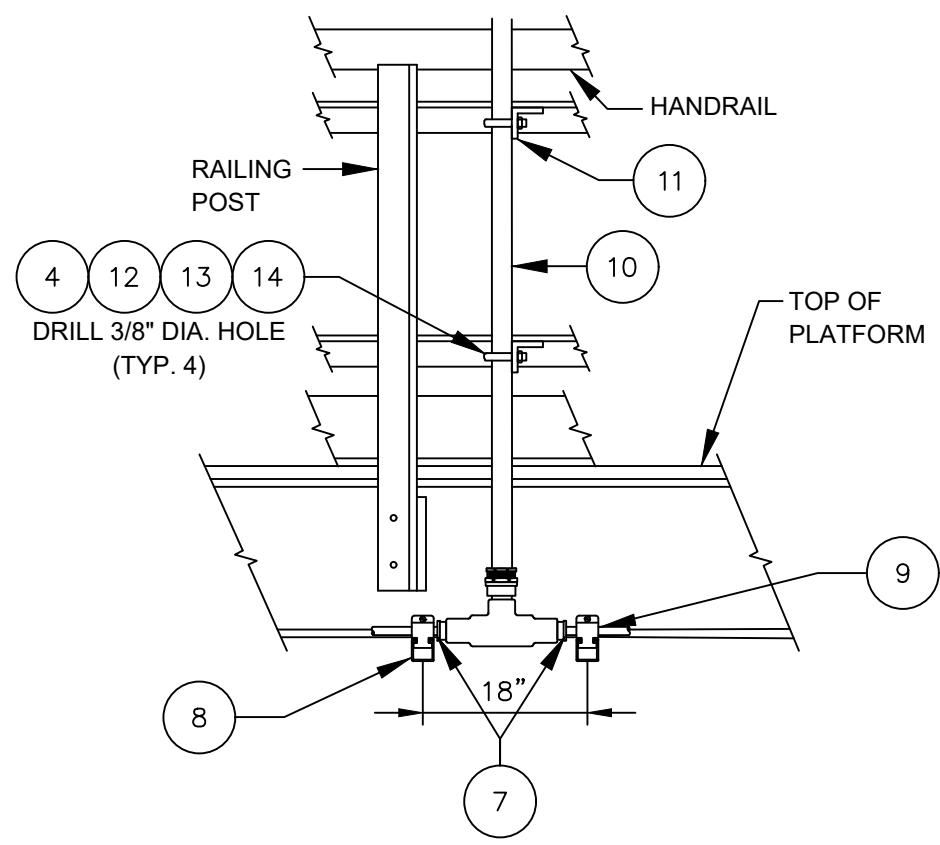
L29A/B/C

NOTES:

1. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65
2. FOR "T"- FITTING SIZE REFER TO NOTE SHEET, CHART 1 AND CHART 2 ON SHEET 3.



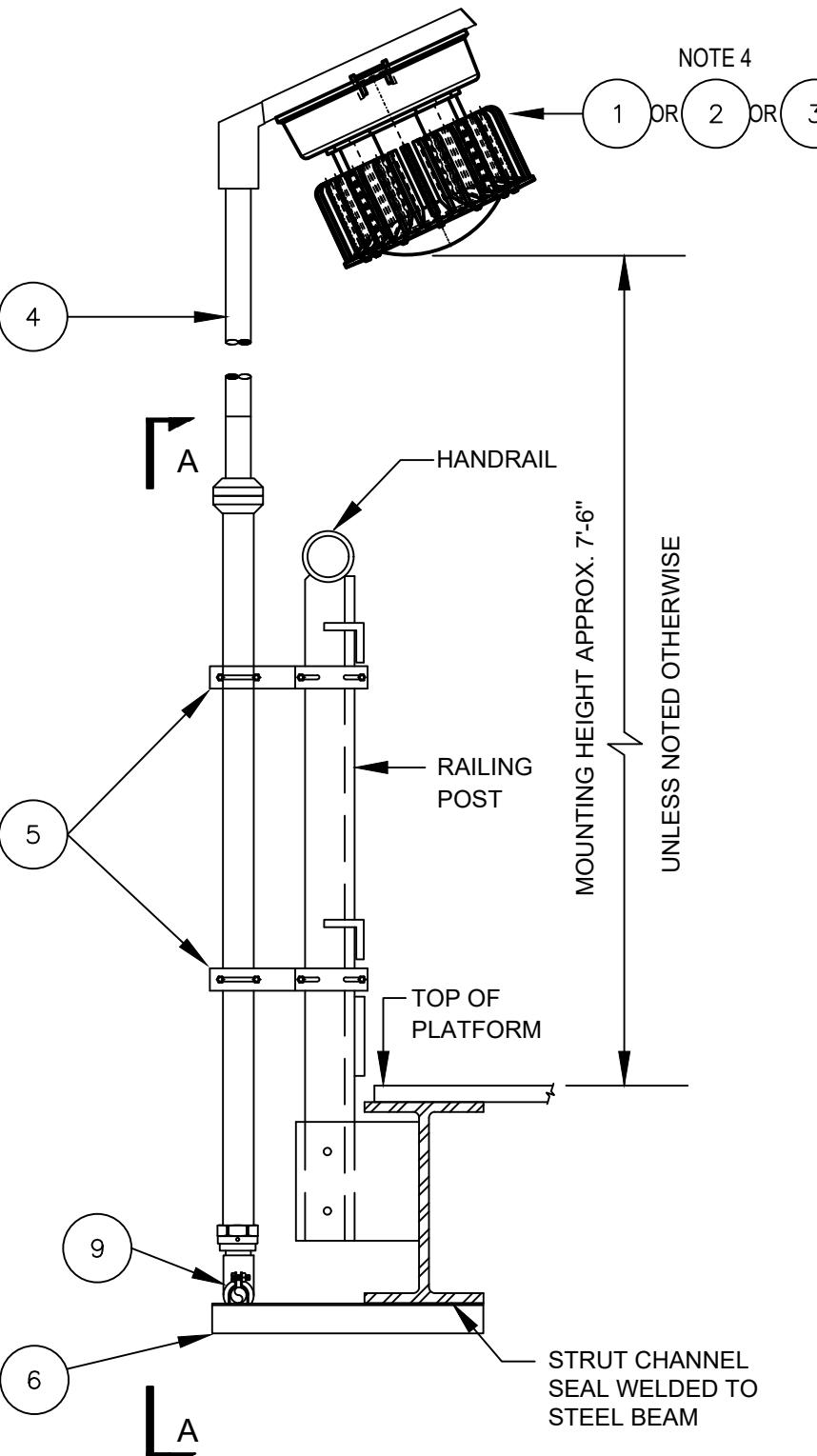
ITEM	L29A QTY	L29B QTY	L29C QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE
1	1	-	-	EA	LED LINEAR ,INDUSTRIAL, STANCHION MOUNT, 25 DEG. ANGLE, 30W, 100-240VAC, 5700K	16LTGS990086
2	-	1	-	EA	LED LINEAR ,INDUSTRIAL, STANCHION MOUNT, 25 DEG. ANGLE, 40W, 100-240VAC, 5700K	16LTGS990087
3	-	-	1	EA	LED LINEAR ,INDUSTRIAL, STANCHION MOUNT, 25 DEG. ANGLE, 60W, 100-240VAC, 5700K	16LTGS990088
4	2	2	2	EA	U-BOLT, 1/4" X 1 1/2", 1 1/2" PIPE, 316 STAINLESS STEEL	16HWRX260123
5	1	1	1	EA	FITTING, CONDUIT BODY 1 1/2", TYPE "T", FORM 8, IRON ALLOY WITH COVER AND GASKET	16CONF150185
6	1	1	1	EA	UNION, CONDUIT, 1 1/2", TYPE "UNY" MALE/FEMALE	16CONF990200
7	2	2	2	EA	REDUCER, CONDUIT, 1 1/2" X 3/4"	16CONF140138
8	3	3	3	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED	16STUS060064
9	2	2	2	EA	CONDUIT STRAP, 3/4" SS WITH SS6 HARDWARE, USE WITH 1 5/8" STRUT CHANNEL	16STUA260014
10	10	10	10	EA	CONDUIT 1 1/2", RIGID GALVANIZED STEEL	16CONS050022
11	2	2	2	FT	STEEL, ANGLE, L3 X 3 X 1/4, ASTM A36, HDG	16SPTS060009
12	4	4	4	EA	WASHER, FLAT 1/4" 316 STAINLESS STEEL	16HWRX260060
13	4	4	4	EA	WASHER, LOCK 1/4" 316 STAINLESS STEEL	16HWRX260069
14	4	4	4	EA	NUT, HEX HEAD, 1/4" 316 STAINLESS STEEL	16HWRX260049



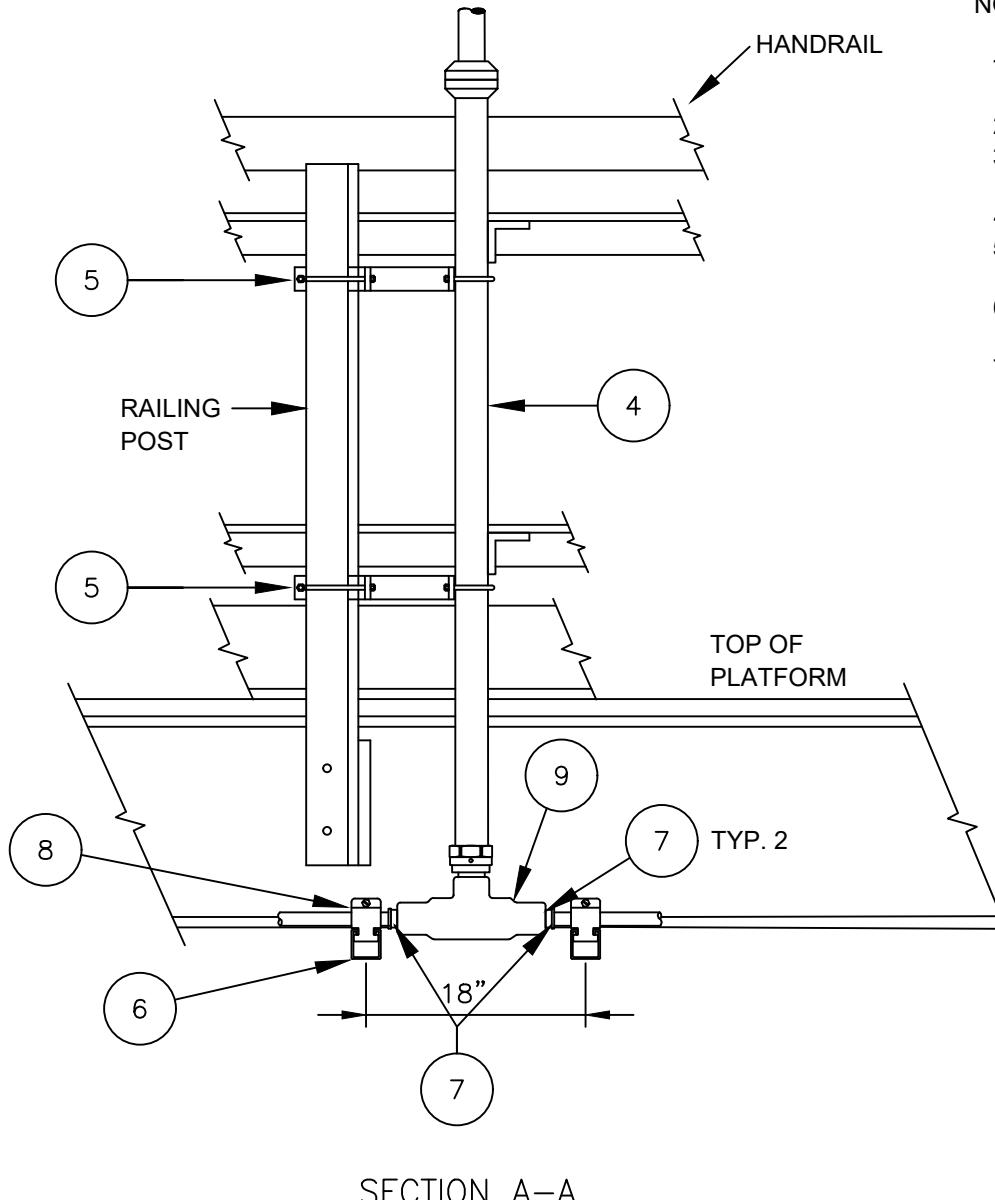
A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. THIS INFORMATION IS CONFIDENTIAL AND IS PROVIDED PURSUANT TO THE CONTRACT BETWEEN THE COMPANY AND/OR ITS CLIENT. USE OF THIS INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES N.V. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS LINEAR HANDRAIL MOUNTED STANCHION LIGHT FOR NON-HAZARDOUS AREA CLASSIFICATION "L29"						
TEN TECHNIP ENERGIES		COMMONWEALTH LNG				
SCALE	CLIENT NUMBER	DRAWN BY				
		FV				
PROJECT NUMBER	TECHNIP ENERGIES NUMBER	REVISION				
078051C	078051C-000-STD-1683-0001-33	A				

A
B
C
D
E
F
G
H
J
K

L30A/B/C



ITEM	L30A QTY	L30B QTY	L30C QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE
1	1	-	-	EA	LED, CHAMP PVMV, STANCHION MOUNT, 25 DEG. ANGLE, 28W, 100-277VAC, 5000K	16LTGS990083
2	-	1	-	EA	LED, CHAMP PVMV, STANCHION MOUNT, 25 DEG. ANGLE, 45W, 100-277VAC, 5000K	16LTGS990084
3	-	-	1	EA	LED, CHAMP PVMV, STANCHION MOUNT, 25 DEG. ANGLE, 61W, 100-277VAC, 5000K	16LTGS990085
4	1	1	1	EA	TELESCOPING POLE, V-SPRING, STANCHION, HDG, #12/3 PREWIRED, 1-1/2" THREAD	16LTGS060062
5	1	1	1	PR	BRACKET, RAIL MOUNT FOR TELESCOPING POLE, ANGULAR, STAINLESS STEEL	16LTGA260063
6	3	3	3	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED	16STUS060064
7	2	2	2	EA	REDUCER, CONDUIT, 1 1/2" X 3/4"	16CONF140138
8	2	2	2	EA	CONDUIT STRAP, 3/4" SS WITH SS6 HARDWARE, USE WITH 1 5/8" STRUT CHANNEL	16STUA260014
9	1	1	1	EA	FITTING, CONDUIT BODY 1 1/2", TYPE "T", FORM 8, IRON ALLOY WITH COVER AND GASKET	16CONF150185

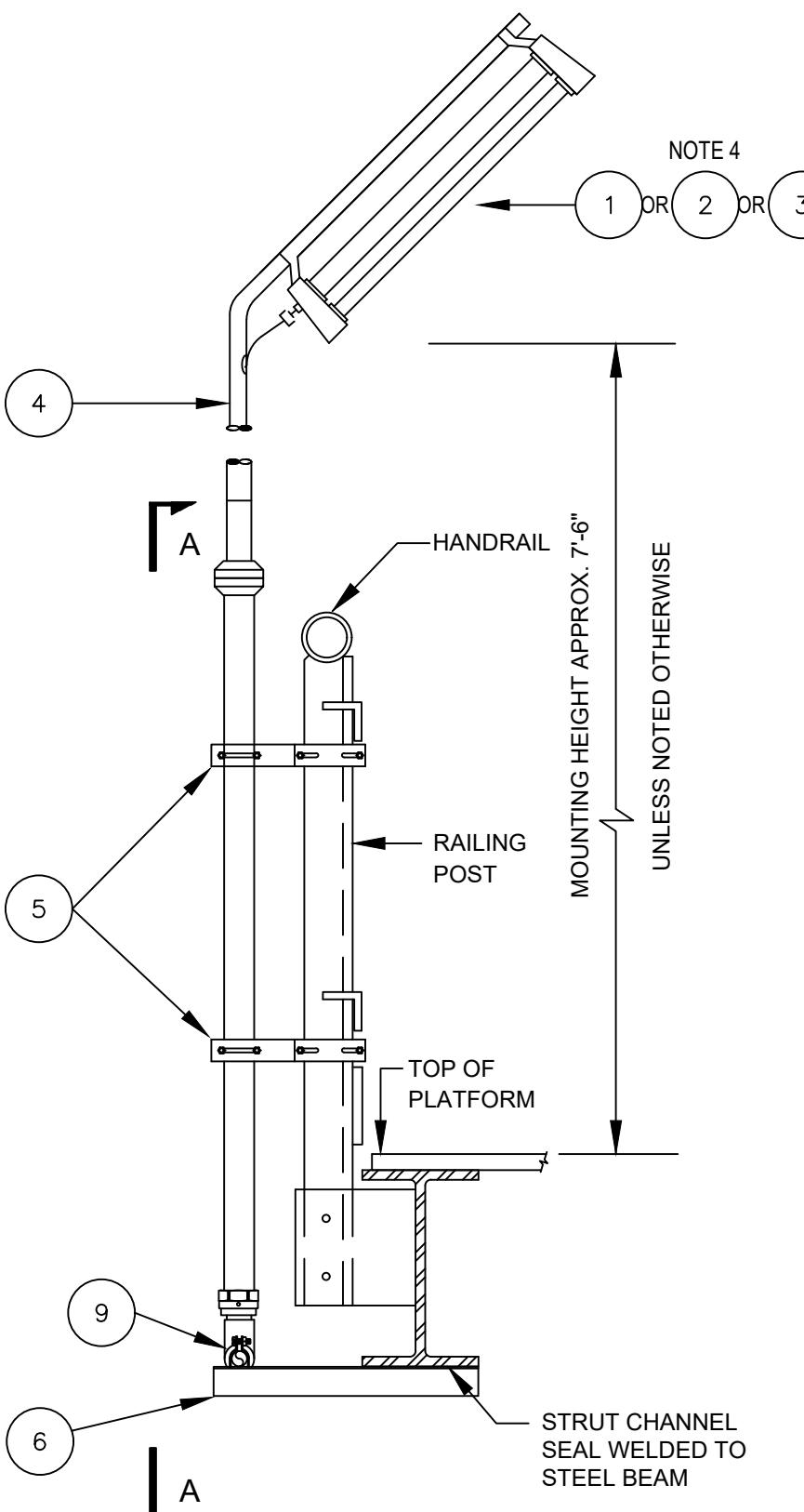


NOTES:

1. TELESCOPING SPRING POLE IS SUITABLE FOR CL.1, DIV. 2 LOCATIONS.
2. POLE IS ADJUSTABLE TO 9'-0" AND COMPRESSED TO 5'-4"
3. POLE IS PRE-WIRED WITH 3 #12 AWG, 600V, -40 - 105C SUN AND OIL RESISTANT CABLE
4. MAXIMUM LIGHT FIXTURE WEIGHT NOT TO EXCEED 50 POUNDS.
5. FINAL AIMING ANGLE SHALL BE DETERMINED AT SITE. SEE PLAN DRAWING FOR MOUNTING HEIGHT/ELEVATION.
6. FOR "T" FITTING SIZE REFER TO NOTE SHEET, CHART 1 AND CHART 2 ON SHEET 3.
7. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65.

A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS UNAUTHORIZED TO REPRODUCE, DISTRIBUTE, OR DISCLOSE THE INFORMATION CONTAINED HEREIN WITHOUT THE EXPRESS WRITTEN CONSENT OF THE CONTRACTOR, TECHNIP ENERGIES N.V. AND ITS AFFILIATES. USE OF THIS INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES N.V. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS STANCHION TELESCOPING POLE LIGHT FOR NON-HAZARDOUS AREA CLASSIFICATION "L30"						
SCALE	CLIENT NUMBER	DRAWN BY				
		FV				
PROJECT NUMBER	TECHNIP ENERGIES NUMBER	REVISION				
078051C	078051C-000-STD-1683-0001-34	A				

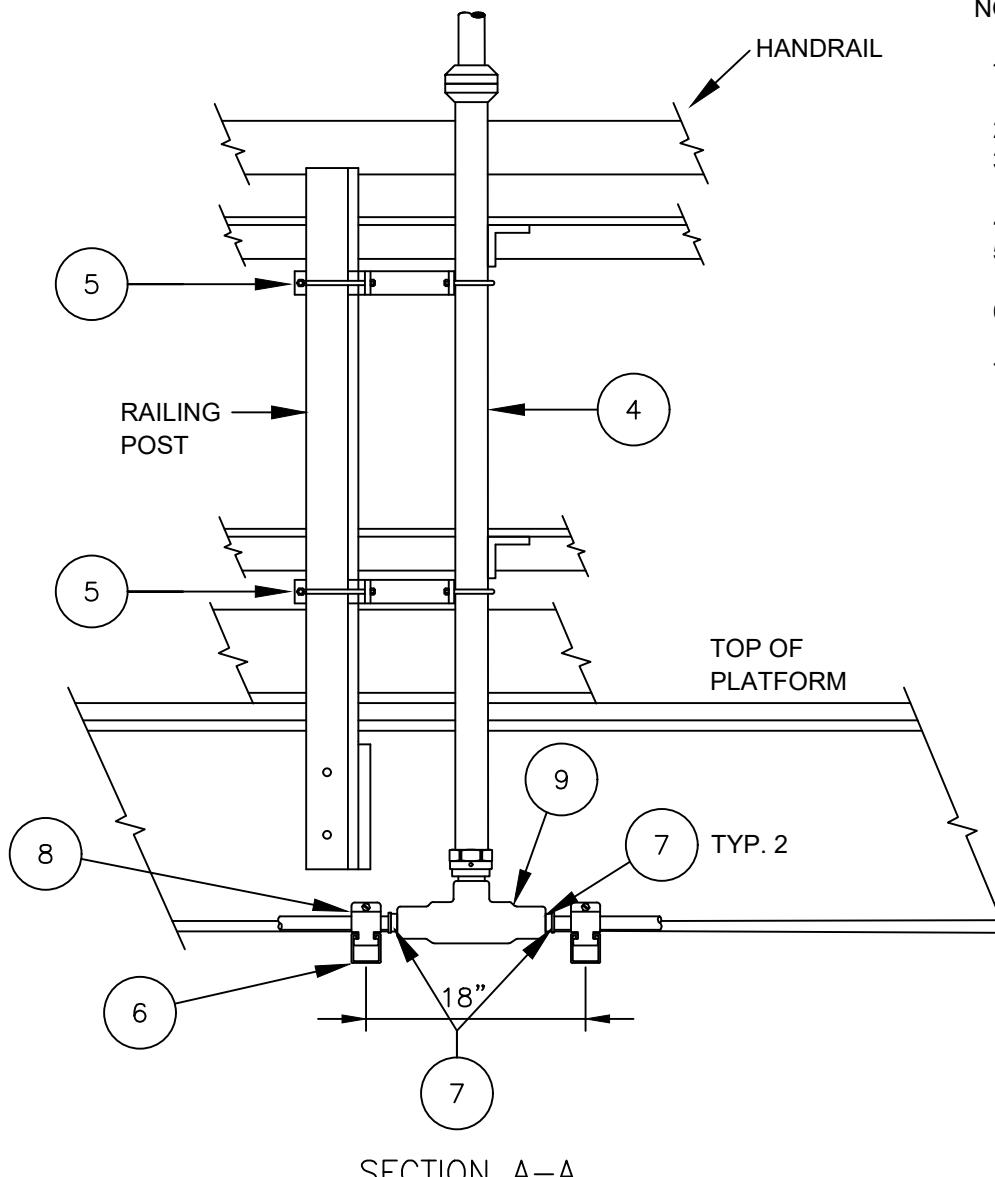
L31A/B/C



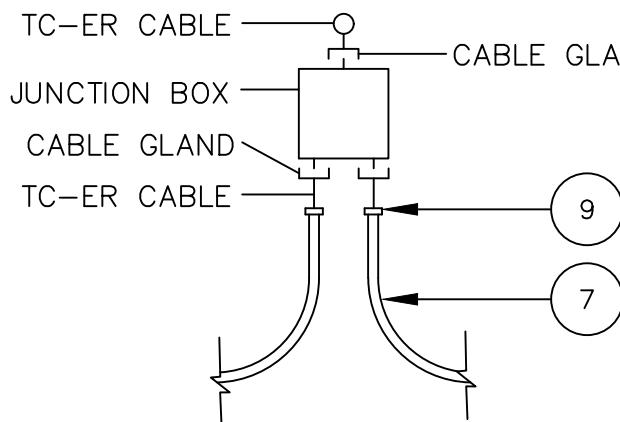
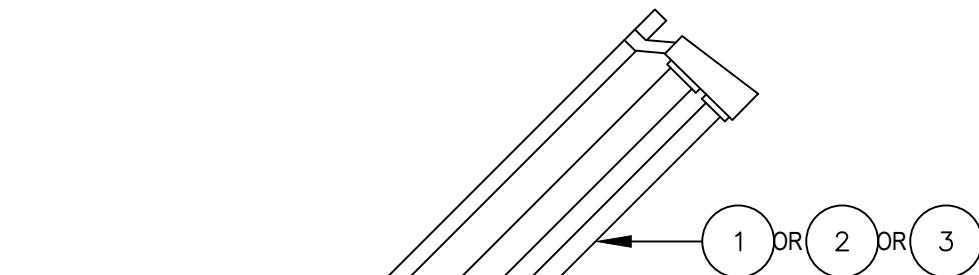
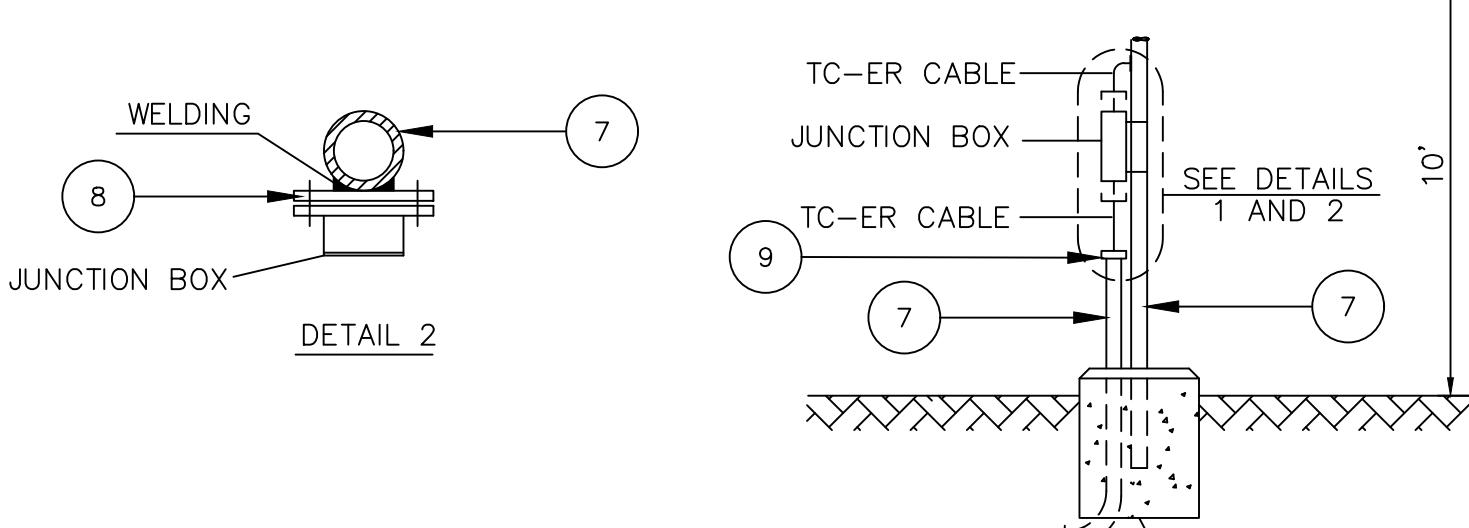
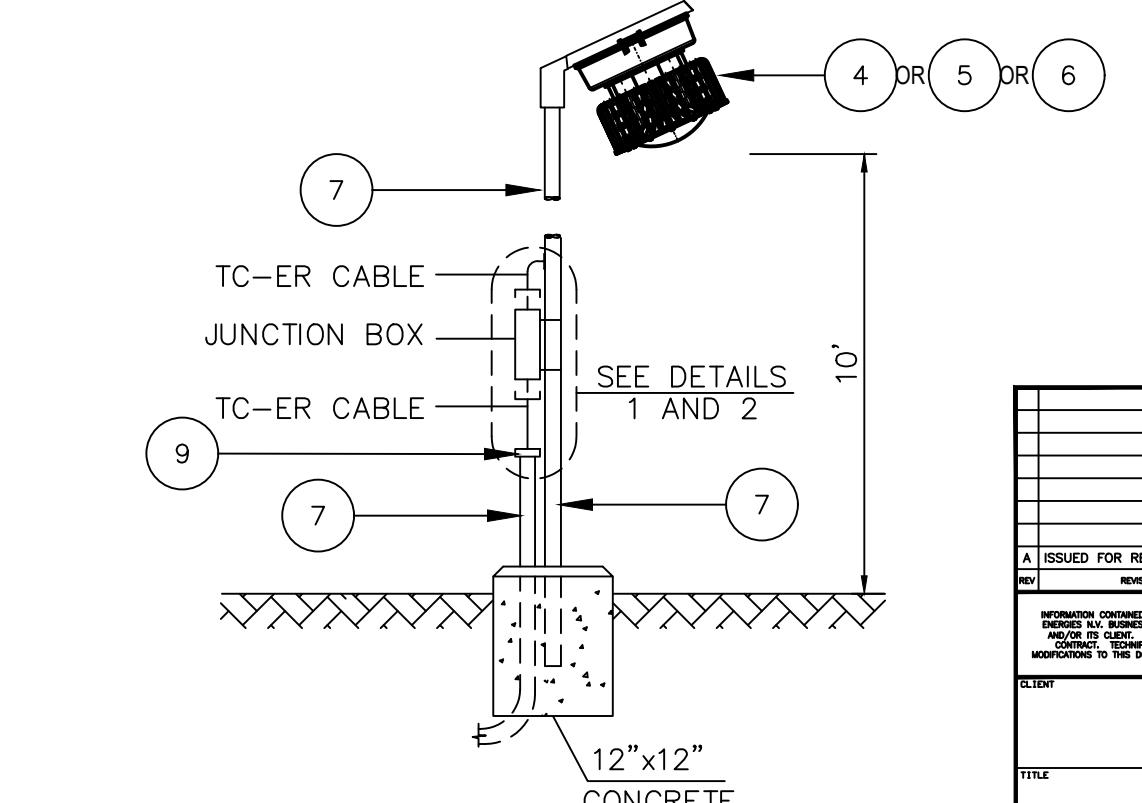
ITEM	L31A QTY	L31B QTY	L31C QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE
1	1	-	-	EA	LED LINEAR ,INDUSTRIAL, STANCHION MOUNT ,25 DEG. ANGLE, 30W, 100-240VAC, 5700K	16LTGS990086
2	-	1	-	EA	LED LINEAR ,INDUSTRIAL, STANCHION MOUNT ,25 DEG. ANGLE, 40W, 100-240VAC, 5700K	16LTGS990087
3	-	-	1	EA	LED LINEAR ,INDUSTRIAL, STANCHION MOUNT ,25 DEG. ANGLE, 60W, 100-240VAC, 5700K	16LTGS990088
4	1	1	1	EA	TELESCOPING POLE, V-SPRING, STANCHION, HDG, #12/3 PREWIRED, 1-1/2" THREAD	16LTGS060062
5	1	1	1	PR	BRACKET, RAIL MOUNT FOR TELESCOPING POLE, ANGULAR, STAINLESS STEEL	16LTGA260063
6	3	3	3	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED	16STUS060064
7	2	2	2	EA	REDUCER, CONDUIT, 1 1/2" X 3/4"	16CONF140138
8	2	2	2	EA	CONDUIT STRAP, 3/4" SS WITH SS6 HARDWARE, USE WITH 1 5/8" STRUT CHANNEL	16STUA260014
9	1	1	1	EA	FITTING, CONDUIT BODY 1 1/2", TYPE "T", FORM 8, IRON ALLOY WITH COVER AND GASKET	16CONF150185

NOTES:

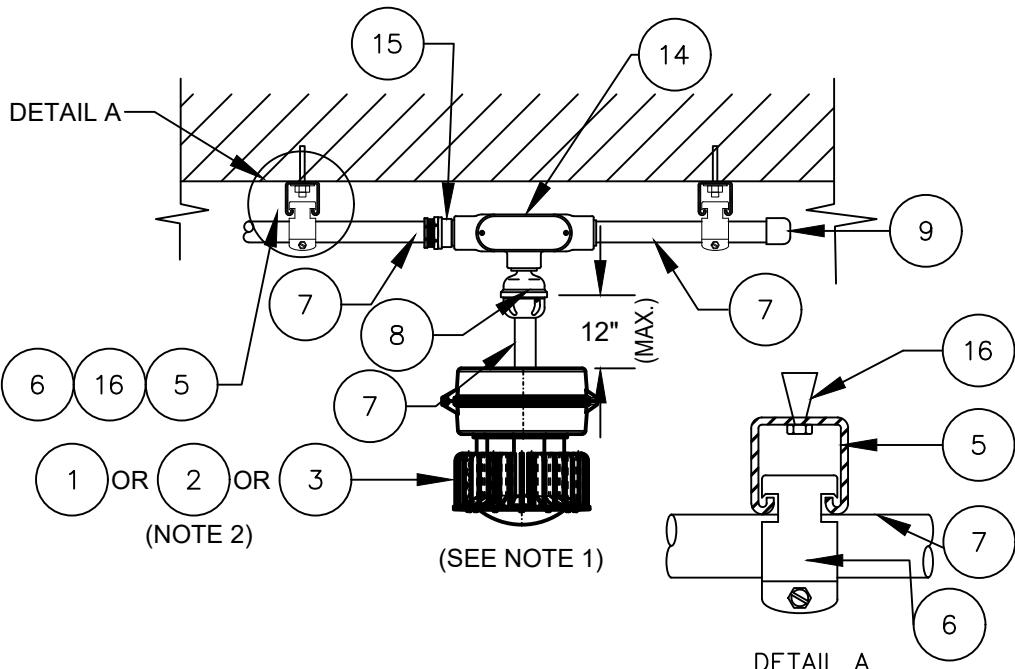
1. TELESCOPING SPRING POLE IS SUITABLE FOR CL.1, DIV. 2 LOCATIONS.
 2. POLE IS ADJUSTABLE TO 9'-0" AND COMPRESSED TO 5'-4"
 3. POLE IS PRE-WIRED WITH 3 #12 AWG, 600V, -40 - 105C SUN AND OIL RESISTANT CABLE
 4. MAXIMUM LIGHT FIXTURE WEIGHT NOT TO EXCEED 50 POUNDS.
 5. FINAL AIMING ANGLE SHALL BE DETERMINED AT SITE. SEE PLAN DRAWING FOR MOUNTING HEIGHT/ELEVATION.
 6. FOR "T" FITTING SIZE REFER TO NOTE SHEET, CHART 1 AND CHART 2 ON SHEET 65.
 7. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 3



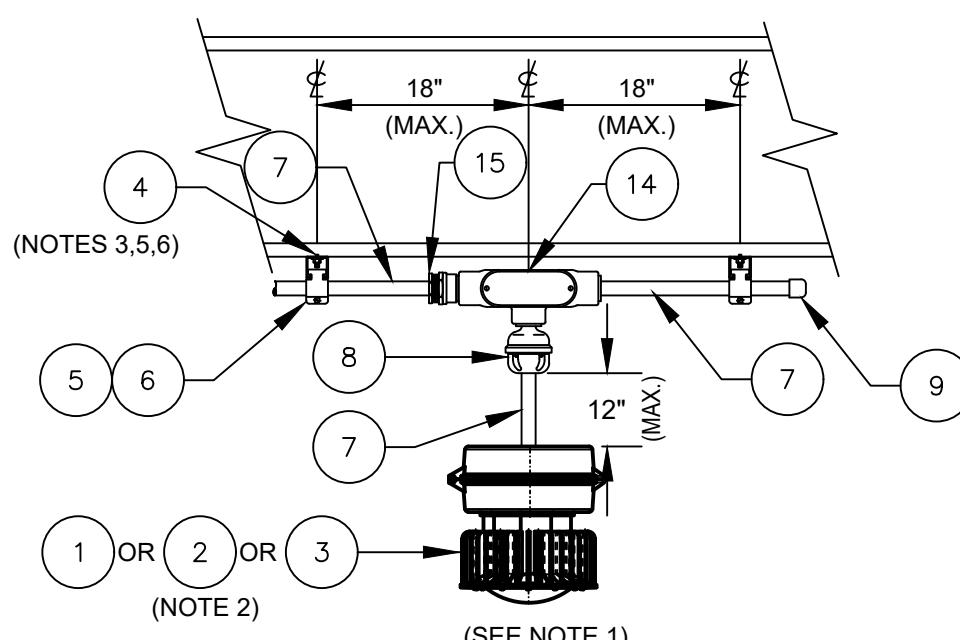
A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APPR
CONFIDENTIAL						
INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGIES N.V. BUSINESS UNIT AND EMBODIES CONFIDENTIAL AND PROPRIETARY INFORMATION OF THE APPLICANT ENTITY AND ITS AFFILIATES. THIS DOCUMENT IS PROVIDED PURSUANT TO THE CONTRACTS ENTERED INTO BY THE CONTRACTOR. TECHNIP ENERGIES N.V. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT	COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA					
TITLE	ELECTRICAL LIGHTING INSTALLATION DETAILS LINEAR STANCHION TELESCOPING POLE LIGHT FOR NON-HAZARDOUS AREA CLASSIFICATION "L31"					
 			 COMMONWEALTH LNG			
SCALE	CLIENT NUMBER			DRAWN BY		
				FV		
PROJECT NUMBER	TECHNIP ENERGIES NUMBER			REVISION		
078051C	078051C-000-STD-1683-0001-35			A		

A	B	C	D	E	F	G	H	J	K																																																																																																														
L32A/B/C/D/E/F									TPENG ITEM CODE																																																																																																														
NOTES:									1																																																																																																														
1. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65. 2. SEE BULK MATERIAL MR (MATERIAL REQUISITION) FOR CABLE GLANDS AND JUNCTION BOXES DEFINITIONS.									1																																																																																																														
									2																																																																																																														
<table border="1"> <thead> <tr> <th>ITEM</th><th>L32A QTY</th><th>L32B QTY</th><th>L32C QTY</th><th>L32D QTY</th><th>L32E QTY</th><th>L32F QTY</th><th>UNIT</th><th colspan="2">BILL OF MATERIAL</th></tr> </thead> <tbody> <tr> <td>1</td><td>1</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>EA</td><td colspan="2">LED LINEAR ,INDUSTRIAL, STANCHION MOUNT, 25 DEG. ANGLE, 30W, 100-240VAC, 5700K</td></tr> <tr> <td>2</td><td>-</td><td>1</td><td>-</td><td>-</td><td>-</td><td>-</td><td>EA</td><td colspan="2">LED LINEAR ,INDUSTRIAL, STANCHION MOUNT, 25 DEG. ANGLE, 40W, 100-240VAC, 5700K</td></tr> <tr> <td>3</td><td>-</td><td>-</td><td>1</td><td></td><td>-</td><td>-</td><td>EA</td><td colspan="2">LED LINEAR ,INDUSTRIAL, STANCHION MOUNT, 25 DEG. ANGLE, 60W, 100-240VAC, 5700K</td></tr> <tr> <td>4</td><td>-</td><td>-</td><td>-</td><td>1</td><td>-</td><td>-</td><td>EA</td><td colspan="2">LED, CHAMP PVMV, STANCHION MOUNT,25 DEG. ANGLE, 28W, 100-277VAC, 5000K</td></tr> <tr> <td>5</td><td>-</td><td>-</td><td>-</td><td>-</td><td>1</td><td>-</td><td>EA</td><td colspan="2">LED, CHAMP PVMV, STANCHION MOUNT,25 DEG. ANGLE, 45W, 100-277VAC, 5000K</td></tr> <tr> <td>6</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>1</td><td>EA</td><td colspan="2">LED, CHAMP PVMV, STANCHION MOUNT,25 DEG. ANGLE, 61W, 100-277VAC, 5000K</td></tr> <tr> <td>7</td><td>20</td><td>20</td><td>20</td><td>20</td><td>20</td><td>20</td><td>FT</td><td colspan="2">CONDUIT 1 1/2", RIGID GALVANIZED STEEL</td></tr> <tr> <td>8</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>EA</td><td colspan="2">PLATE PRE-CUT 1/4" THICK CARBON STEEL HDG, 4 X 16</td></tr> <tr> <td>9</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>EA</td><td colspan="2">BUSHING, GROUNDING 1", INSULATED THROAT, GROUND WIRE RANGE #4-#14 AWG - MALLEABLE IRON</td></tr> <tr> <td>10</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>EA</td><td colspan="2">CONDUIT 1", RIGID GALVANIZED STEEL</td></tr> </tbody> </table>									ITEM	L32A QTY	L32B QTY	L32C QTY	L32D QTY	L32E QTY	L32F QTY	UNIT	BILL OF MATERIAL		1	1	-	-	-	-	-	EA	LED LINEAR ,INDUSTRIAL, STANCHION MOUNT, 25 DEG. ANGLE, 30W, 100-240VAC, 5700K		2	-	1	-	-	-	-	EA	LED LINEAR ,INDUSTRIAL, STANCHION MOUNT, 25 DEG. ANGLE, 40W, 100-240VAC, 5700K		3	-	-	1		-	-	EA	LED LINEAR ,INDUSTRIAL, STANCHION MOUNT, 25 DEG. ANGLE, 60W, 100-240VAC, 5700K		4	-	-	-	1	-	-	EA	LED, CHAMP PVMV, STANCHION MOUNT,25 DEG. ANGLE, 28W, 100-277VAC, 5000K		5	-	-	-	-	1	-	EA	LED, CHAMP PVMV, STANCHION MOUNT,25 DEG. ANGLE, 45W, 100-277VAC, 5000K		6	-	-	-	-	-	1	EA	LED, CHAMP PVMV, STANCHION MOUNT,25 DEG. ANGLE, 61W, 100-277VAC, 5000K		7	20	20	20	20	20	20	FT	CONDUIT 1 1/2", RIGID GALVANIZED STEEL		8	1	1	1	1	1	1	EA	PLATE PRE-CUT 1/4" THICK CARBON STEEL HDG, 4 X 16		9	2	2	2	2	2	2	EA	BUSHING, GROUNDING 1", INSULATED THROAT, GROUND WIRE RANGE #4-#14 AWG - MALLEABLE IRON		10	3	3	3	3	3	3	EA	CONDUIT 1", RIGID GALVANIZED STEEL		2
ITEM	L32A QTY	L32B QTY	L32C QTY	L32D QTY	L32E QTY	L32F QTY	UNIT	BILL OF MATERIAL																																																																																																															
1	1	-	-	-	-	-	EA	LED LINEAR ,INDUSTRIAL, STANCHION MOUNT, 25 DEG. ANGLE, 30W, 100-240VAC, 5700K																																																																																																															
2	-	1	-	-	-	-	EA	LED LINEAR ,INDUSTRIAL, STANCHION MOUNT, 25 DEG. ANGLE, 40W, 100-240VAC, 5700K																																																																																																															
3	-	-	1		-	-	EA	LED LINEAR ,INDUSTRIAL, STANCHION MOUNT, 25 DEG. ANGLE, 60W, 100-240VAC, 5700K																																																																																																															
4	-	-	-	1	-	-	EA	LED, CHAMP PVMV, STANCHION MOUNT,25 DEG. ANGLE, 28W, 100-277VAC, 5000K																																																																																																															
5	-	-	-	-	1	-	EA	LED, CHAMP PVMV, STANCHION MOUNT,25 DEG. ANGLE, 45W, 100-277VAC, 5000K																																																																																																															
6	-	-	-	-	-	1	EA	LED, CHAMP PVMV, STANCHION MOUNT,25 DEG. ANGLE, 61W, 100-277VAC, 5000K																																																																																																															
7	20	20	20	20	20	20	FT	CONDUIT 1 1/2", RIGID GALVANIZED STEEL																																																																																																															
8	1	1	1	1	1	1	EA	PLATE PRE-CUT 1/4" THICK CARBON STEEL HDG, 4 X 16																																																																																																															
9	2	2	2	2	2	2	EA	BUSHING, GROUNDING 1", INSULATED THROAT, GROUND WIRE RANGE #4-#14 AWG - MALLEABLE IRON																																																																																																															
10	3	3	3	3	3	3	EA	CONDUIT 1", RIGID GALVANIZED STEEL																																																																																																															
									3																																																																																																														
									4																																																																																																														
									5																																																																																																														
<p>DETAIL L05A/L05B/L05C STANCHION ON 4.5M POLE WITH CONCRETE FOUNDATION</p> <p>DETAIL L05D/L05E/L05F STANCHION ON 4.5M POLE WITH CONCRETE FOUNDATION</p>									6																																																																																																														
<table border="1"> <tr> <td>ISSUED FOR REVIEW</td><td>10-02-2023</td><td>FV</td><td>LNW</td><td>VV</td><td>VVA</td></tr> <tr> <td>REV</td><td>REVISION DESCRIPTION</td><td>DATE</td><td>DRAWN</td><td>CHECKED</td><td>APPROVED</td></tr> <tr> <td colspan="6">CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS EXCLUDED FROM THE INFORMATION THAT IS SUBJECT TO THE TRADE SECRET LAW OF THE STATE AND/OR THE CONTRACT. USE OF THE INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES INC. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.</td></tr> <tr> <td colspan="6">CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA</td></tr> <tr> <td colspan="6">TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS STANCHION ON POLE WITH CONCRETE FOUNDATION FOR NON-HAZARDOUS AREA CLASSIFICATION "L32"</td></tr> <tr> <td colspan="6">   </td></tr> <tr> <td>SCALE</td><td>CLIENT NUMBER</td><td colspan="4">DRAWN BY</td></tr> <tr> <td></td><td></td><td colspan="4">FV</td></tr> <tr> <td>PROJECT NUMBER</td><td>TECHNIP ENERGIES NUMBER</td><td colspan="4">REVISION</td></tr> <tr> <td>078051C</td><td>078051C-000-STD-1683-0001-36</td><td colspan="4">A</td></tr> </table>									ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA	REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS EXCLUDED FROM THE INFORMATION THAT IS SUBJECT TO THE TRADE SECRET LAW OF THE STATE AND/OR THE CONTRACT. USE OF THE INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES INC. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS STANCHION ON POLE WITH CONCRETE FOUNDATION FOR NON-HAZARDOUS AREA CLASSIFICATION "L32"						 						SCALE	CLIENT NUMBER	DRAWN BY						FV				PROJECT NUMBER	TECHNIP ENERGIES NUMBER	REVISION				078051C	078051C-000-STD-1683-0001-36	A				5																																																		
ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA																																																																																																																		
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED																																																																																																																		
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS EXCLUDED FROM THE INFORMATION THAT IS SUBJECT TO THE TRADE SECRET LAW OF THE STATE AND/OR THE CONTRACT. USE OF THE INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES INC. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.																																																																																																																							
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA																																																																																																																							
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS STANCHION ON POLE WITH CONCRETE FOUNDATION FOR NON-HAZARDOUS AREA CLASSIFICATION "L32"																																																																																																																							
 																																																																																																																							
SCALE	CLIENT NUMBER	DRAWN BY																																																																																																																					
		FV																																																																																																																					
PROJECT NUMBER	TECHNIP ENERGIES NUMBER	REVISION																																																																																																																					
078051C	078051C-000-STD-1683-0001-36	A																																																																																																																					

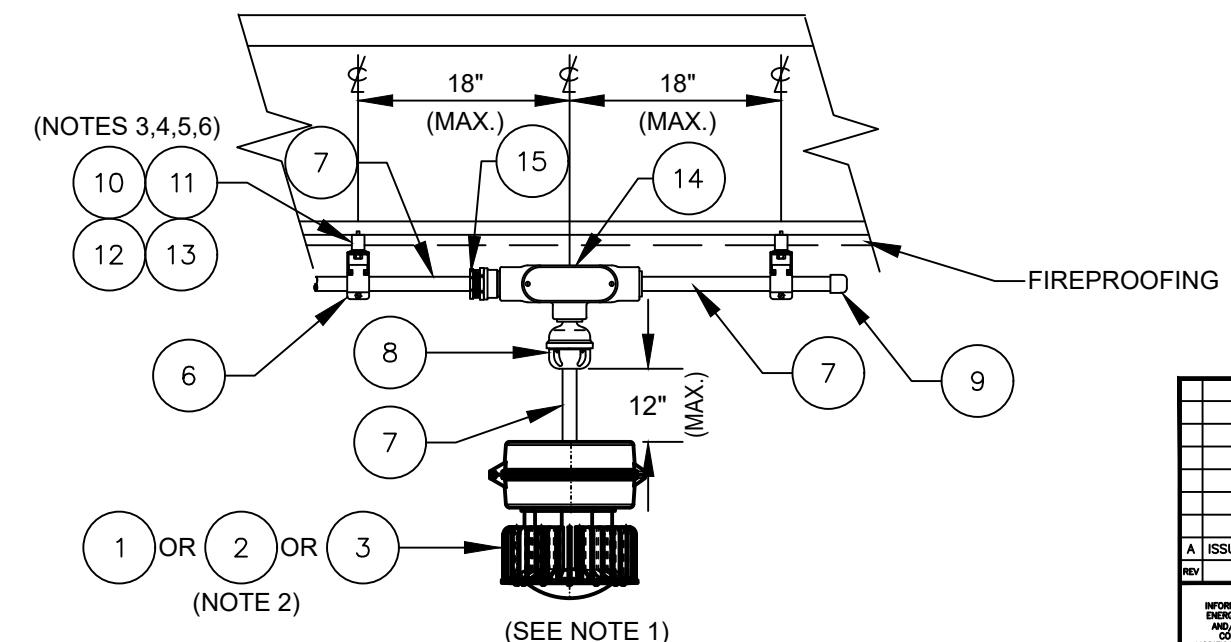
A	B	C	D	E	F	G	H	J	K	
L33A/B/C/D/E/F/G/H/I										TPENG ITEM CODE
1										16LTGH990092
										16LTGH990093
										16LTGH990094
										16HWRX260009
										16STUS060064
										16STUA260014
										16CONS050020
										16LTGA050059
										16CONA050330
										16STUS060056
										16HWRX260098
										16HLTX990001
										16HLTX990003
										16CONF150181
										16CONF990203
										16HWRX260166



DETAIL L33G/L33H/L33I
FIXTURE MOUNTED ON CONCRETE



DETAIL L33A/L33C/L33E
FIXTURE MOUNTED ON STEEL



DETAIL L33B/L33D/L33F
FIXTURE MOUNTED ON FIREPROOFED STEEL

NOTES:

1. FOR MOUNTING HEIGHT SEE PLAN DWG. 078051C-1000-DW-1632.
2. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65.
3. FOR INSTALLATION OF HILTI STUD STRUCTURAL STEEL MUST BE AT LEAST 5/16" THICK. LOCATE STUD AT LEAST 1/4" MINIMUM FROM EDGE OF STEEL.
4. FIREPROOFING, WHEN PRESENT, TO BE REMOVED AND REPAIRED AFTER CHANNEL INSTALLATION.
5. PRE-DRILLED HOLE MUST BE CLEAR OF ALL DEBRIS, WATER, OIL, ETC. PRIOR TO INSTALLATION OF STUD.
6. INSTALL 3/8" FLANGE NUT USING HILTI RECOMMENDED TORQUE SETTING.
7. ITEM 11 SHALL BE USED IF THE LIGHTING FIXTURE IS LOCATED AT THE END OF THE CIRCUIT.
8. FOR "T" FITTING SIZE REFER TO NOTE SHEET, CHART 1 AND CHART 2 ON SHEET 3.

A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS EXCLUDED FROM THE INFORMATION THAT IS SUBJECT TO THE PROTECTION OF TRADE SECRETS AND/OR ITS CLIENT. USE OF THE INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES NV. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS PENDANT MOUNTED L.FIXTURE ON STEEL STR./CONC. FOR NON-HAZARDOUS AREA CLASSIFICATION "L33"						
  SCALE _____ DRAWN BY _____ FV PROJECT NUMBER 078051C TECHNIP ENERGIES NUMBER 078051C-000-STD-1683-0001-37 REVISION A						

A	B	C	D	E	F	G	H	J	K																																																																																																																																																																																																												
L34A/B/C/D/E/F/G/H/I									TPENG ITEM CODE																																																																																																																																																																																																												
<p>(NOTES 3,5,6)</p> <p>18" (MAX.)</p> <p>(SEE NOTE 1)</p> <p>(NOTE 2)</p>									16LTGC990095																																																																																																																																																																																																												
<table border="1"> <thead> <tr> <th>ITEM</th><th>L34A QTY</th><th>L34B QTY</th><th>L34C QTY</th><th>L34D QTY</th><th>L34E QTY</th><th>L34F QTY</th><th>L34G QTY</th><th>L34H QTY</th><th>UNIT</th><th>BILL OF MATERIAL</th><th>TPENG ITEM CODE</th></tr> </thead> <tbody> <tr><td>1</td><td>1</td><td>1</td><td>-</td><td>-</td><td>-</td><td>-</td><td>1</td><td>-</td><td>EA</td><td>LED, CHAMP PVMV, CEILING MOUNT, 25 DEG. ANGLE, 28W, 100-277VAC, 5000K</td><td>16LTGC990095</td></tr> <tr><td>2</td><td>-</td><td>-</td><td>1</td><td>1</td><td>-</td><td>-</td><td>-</td><td>1</td><td>EA</td><td>LED, CHAMP PVMV, CEILING MOUNT, 25 DEG. ANGLE, 45W, 100-277VAC, 5000K</td><td>16LTGC990096</td></tr> <tr><td>3</td><td>-</td><td>-</td><td>-</td><td>-</td><td>1</td><td>1</td><td>-</td><td>-</td><td>EA</td><td>LED, CHAMP PVMV, CEILING MOUNT, 25 DEG. ANGLE, 61W, 100-277VAC, 5000K</td><td>16LTGC990097</td></tr> <tr><td>4</td><td>4</td><td>-</td><td>4</td><td>-</td><td>4</td><td>-</td><td>2</td><td>2</td><td>FT</td><td>STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED</td><td>16STUS060064</td></tr> <tr><td>5</td><td>4</td><td>-</td><td>4</td><td>-</td><td>4</td><td>-</td><td>-</td><td>-</td><td>EA</td><td>STUD, THREADED, 3/8", X-BT-MR W10/15 SN 8, WITH NUT, 316 STAINLESS STEEL</td><td>16HWRX260009</td></tr> <tr><td>6</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>-</td><td>-</td><td>EA</td><td>MACHINE BOLT 1/4" X 1 1/2", HEX HEAD NC THREADS 316 STAINLESS STEEL</td><td>16HWRX260044</td></tr> <tr><td>7</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>-</td><td>-</td><td>EA</td><td>WASHER, FLAT 1/4" 316 STAINLESS STEEL</td><td>16HWRX260060</td></tr> <tr><td>8</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>-</td><td>-</td><td>EA</td><td>WASHER, LOCK 1/4" 316 STAINLESS STEEL</td><td>16HWRX260069</td></tr> <tr><td>9</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>-</td><td>-</td><td>EA</td><td>SPRING NUT 1/4-20 316SS</td><td>16HWRX260006</td></tr> <tr><td>10</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>FT</td><td>CONDUIT 3/4", RIGID GALVANIZED STEEL</td><td>16CONS050020</td></tr> <tr><td>11</td><td>-</td><td>4</td><td>-</td><td>4</td><td>-</td><td>4</td><td>-</td><td>-</td><td>FT</td><td>STRUT, HS-1-5/8" X 1-5/8", 12 GAUGE, HDG</td><td>16STUS060056</td></tr> <tr><td>12</td><td>-</td><td>4</td><td>-</td><td>4</td><td>-</td><td>4</td><td>-</td><td>-</td><td>EA</td><td>STUD, THREADED, 8MM, X-BT-GR M8/7 SN 8, W/O NUT, 316 STAINLESS STEEL</td><td>16HWRX260098</td></tr> <tr><td>13</td><td>-</td><td>4</td><td>-</td><td>4</td><td>-</td><td>4</td><td>-</td><td>-</td><td>EA</td><td>STAND-OFF ADAPTOR, HILTI, M8-MF 25, 1" LONG, WITH NUT, HDG</td><td>16HLTX990001</td></tr> <tr><td>14</td><td>-</td><td>4</td><td>-</td><td>4</td><td>-</td><td>4</td><td>-</td><td>-</td><td>EA</td><td>PLATE, MQZ-L9-F</td><td>16HLTX990003</td></tr> <tr><td>15</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>3</td><td>3</td><td>EA</td><td>EXPANSION ANCHOR, 3/8" x 1-1/2", 316 STAINLESS STEEL, WITH FLAT WASHER AND NUT</td><td>16HWRX260166</td></tr> <tr><td>16</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>EA</td><td>CONDUIT STRAP, 3/4" SS WITH SS6 HARDWARE, USE WITH 1 5/8" STRUT CHANNEL</td><td>16STUA260014</td></tr> </tbody> </table>									ITEM	L34A QTY	L34B QTY	L34C QTY	L34D QTY	L34E QTY	L34F QTY	L34G QTY	L34H QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE	1	1	1	-	-	-	-	1	-	EA	LED, CHAMP PVMV, CEILING MOUNT, 25 DEG. ANGLE, 28W, 100-277VAC, 5000K	16LTGC990095	2	-	-	1	1	-	-	-	1	EA	LED, CHAMP PVMV, CEILING MOUNT, 25 DEG. ANGLE, 45W, 100-277VAC, 5000K	16LTGC990096	3	-	-	-	-	1	1	-	-	EA	LED, CHAMP PVMV, CEILING MOUNT, 25 DEG. ANGLE, 61W, 100-277VAC, 5000K	16LTGC990097	4	4	-	4	-	4	-	2	2	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED	16STUS060064	5	4	-	4	-	4	-	-	-	EA	STUD, THREADED, 3/8", X-BT-MR W10/15 SN 8, WITH NUT, 316 STAINLESS STEEL	16HWRX260009	6	2	2	2	2	2	2	-	-	EA	MACHINE BOLT 1/4" X 1 1/2", HEX HEAD NC THREADS 316 STAINLESS STEEL	16HWRX260044	7	2	2	2	2	2	2	-	-	EA	WASHER, FLAT 1/4" 316 STAINLESS STEEL	16HWRX260060	8	2	2	2	2	2	2	-	-	EA	WASHER, LOCK 1/4" 316 STAINLESS STEEL	16HWRX260069	9	2	2	2	2	2	2	-	-	EA	SPRING NUT 1/4-20 316SS	16HWRX260006	10	2	2	2	2	2	2	2	2	FT	CONDUIT 3/4", RIGID GALVANIZED STEEL	16CONS050020	11	-	4	-	4	-	4	-	-	FT	STRUT, HS-1-5/8" X 1-5/8", 12 GAUGE, HDG	16STUS060056	12	-	4	-	4	-	4	-	-	EA	STUD, THREADED, 8MM, X-BT-GR M8/7 SN 8, W/O NUT, 316 STAINLESS STEEL	16HWRX260098	13	-	4	-	4	-	4	-	-	EA	STAND-OFF ADAPTOR, HILTI, M8-MF 25, 1" LONG, WITH NUT, HDG	16HLTX990001	14	-	4	-	4	-	4	-	-	EA	PLATE, MQZ-L9-F	16HLTX990003	15	-	-	-	-	-	-	3	3	EA	EXPANSION ANCHOR, 3/8" x 1-1/2", 316 STAINLESS STEEL, WITH FLAT WASHER AND NUT	16HWRX260166	16	2	2	2	2	2	2	2	2	EA	CONDUIT STRAP, 3/4" SS WITH SS6 HARDWARE, USE WITH 1 5/8" STRUT CHANNEL	16STUA260014	16STUA260014
ITEM	L34A QTY	L34B QTY	L34C QTY	L34D QTY	L34E QTY	L34F QTY	L34G QTY	L34H QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE																																																																																																																																																																																																										
1	1	1	-	-	-	-	1	-	EA	LED, CHAMP PVMV, CEILING MOUNT, 25 DEG. ANGLE, 28W, 100-277VAC, 5000K	16LTGC990095																																																																																																																																																																																																										
2	-	-	1	1	-	-	-	1	EA	LED, CHAMP PVMV, CEILING MOUNT, 25 DEG. ANGLE, 45W, 100-277VAC, 5000K	16LTGC990096																																																																																																																																																																																																										
3	-	-	-	-	1	1	-	-	EA	LED, CHAMP PVMV, CEILING MOUNT, 25 DEG. ANGLE, 61W, 100-277VAC, 5000K	16LTGC990097																																																																																																																																																																																																										
4	4	-	4	-	4	-	2	2	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED	16STUS060064																																																																																																																																																																																																										
5	4	-	4	-	4	-	-	-	EA	STUD, THREADED, 3/8", X-BT-MR W10/15 SN 8, WITH NUT, 316 STAINLESS STEEL	16HWRX260009																																																																																																																																																																																																										
6	2	2	2	2	2	2	-	-	EA	MACHINE BOLT 1/4" X 1 1/2", HEX HEAD NC THREADS 316 STAINLESS STEEL	16HWRX260044																																																																																																																																																																																																										
7	2	2	2	2	2	2	-	-	EA	WASHER, FLAT 1/4" 316 STAINLESS STEEL	16HWRX260060																																																																																																																																																																																																										
8	2	2	2	2	2	2	-	-	EA	WASHER, LOCK 1/4" 316 STAINLESS STEEL	16HWRX260069																																																																																																																																																																																																										
9	2	2	2	2	2	2	-	-	EA	SPRING NUT 1/4-20 316SS	16HWRX260006																																																																																																																																																																																																										
10	2	2	2	2	2	2	2	2	FT	CONDUIT 3/4", RIGID GALVANIZED STEEL	16CONS050020																																																																																																																																																																																																										
11	-	4	-	4	-	4	-	-	FT	STRUT, HS-1-5/8" X 1-5/8", 12 GAUGE, HDG	16STUS060056																																																																																																																																																																																																										
12	-	4	-	4	-	4	-	-	EA	STUD, THREADED, 8MM, X-BT-GR M8/7 SN 8, W/O NUT, 316 STAINLESS STEEL	16HWRX260098																																																																																																																																																																																																										
13	-	4	-	4	-	4	-	-	EA	STAND-OFF ADAPTOR, HILTI, M8-MF 25, 1" LONG, WITH NUT, HDG	16HLTX990001																																																																																																																																																																																																										
14	-	4	-	4	-	4	-	-	EA	PLATE, MQZ-L9-F	16HLTX990003																																																																																																																																																																																																										
15	-	-	-	-	-	-	3	3	EA	EXPANSION ANCHOR, 3/8" x 1-1/2", 316 STAINLESS STEEL, WITH FLAT WASHER AND NUT	16HWRX260166																																																																																																																																																																																																										
16	2	2	2	2	2	2	2	2	EA	CONDUIT STRAP, 3/4" SS WITH SS6 HARDWARE, USE WITH 1 5/8" STRUT CHANNEL	16STUA260014																																																																																																																																																																																																										
<p>(NOTES 3,4,5,6)</p> <p>18" (MAX.)</p> <p>FIREPROOFING</p> <p>(SEE NOTE 1)</p> <p>(NOTE 2)</p>									16STUS060056																																																																																																																																																																																																												
<p>Detail A</p> <p>(SEE NOTE 1)</p> <p>1 OR 2 OR 3 (NOTE 2)</p>									16HWRX260009																																																																																																																																																																																																												
<p>DETAIL L34G/L34H/L34I FIXTURE MOUNTED ON CONCRETE</p> <p>DETAIL A</p>									16HWRX260069																																																																																																																																																																																																												
<p>NOTES:</p> <ol style="list-style-type: none"> FOR MOUNTING HEIGHT SEE PLAN DWG. 078051C-1000-DW-1632. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65. FOR INSTALLATION OF HILTI STUD STRUCTURAL STEEL MUST BE AT LEAST 5/16" THICK. LOCATE STUD AT LEAST 1/4" MINIMUM FROM EDGE OF STEEL. FIREPROOFING, WHEN PRESENT, TO BE REMOVED AND REPAIRED AFTER CHANNEL INSTALLATION. PRE-DRILLED HOLE MUST BE CLEAR OF ALL DEBRIS, WATER, OIL, ETC. PRIOR TO INSTALLATION OF STUD. INSTALL 3/8" FLANGE NUT USING HILTI RECOMMENDED TORQUE SETTING. 									16HWRX260060																																																																																																																																																																																																												
<p>CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. THIS DOCUMENT IS UNCLASSIFIED CONFIDENTIAL INFORMATION OWNED BY THE COMPANY. USE OF THIS INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES NV AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.</p> <p>CLIENT: COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA</p> <p>TITLE: ELECTRICAL LIGHTING INSTALLATION DETAILS CEILING MOUNTED L. FIXTURE ON STEEL STR./CONC. FOR NON-HAZARDOUS AREA CLASSIFICATION "L34"</p> <p>SCALE: CLIENT NUMBER: DRAWN BY: FV</p> <p>PROJECT NUMBER: TECHNIP ENERGIES NUMBER: REVISION: A</p> <p>078051C 078051C-000-STD-1683-0001-38 A</p>									16HWRX260066																																																																																																																																																																																																												

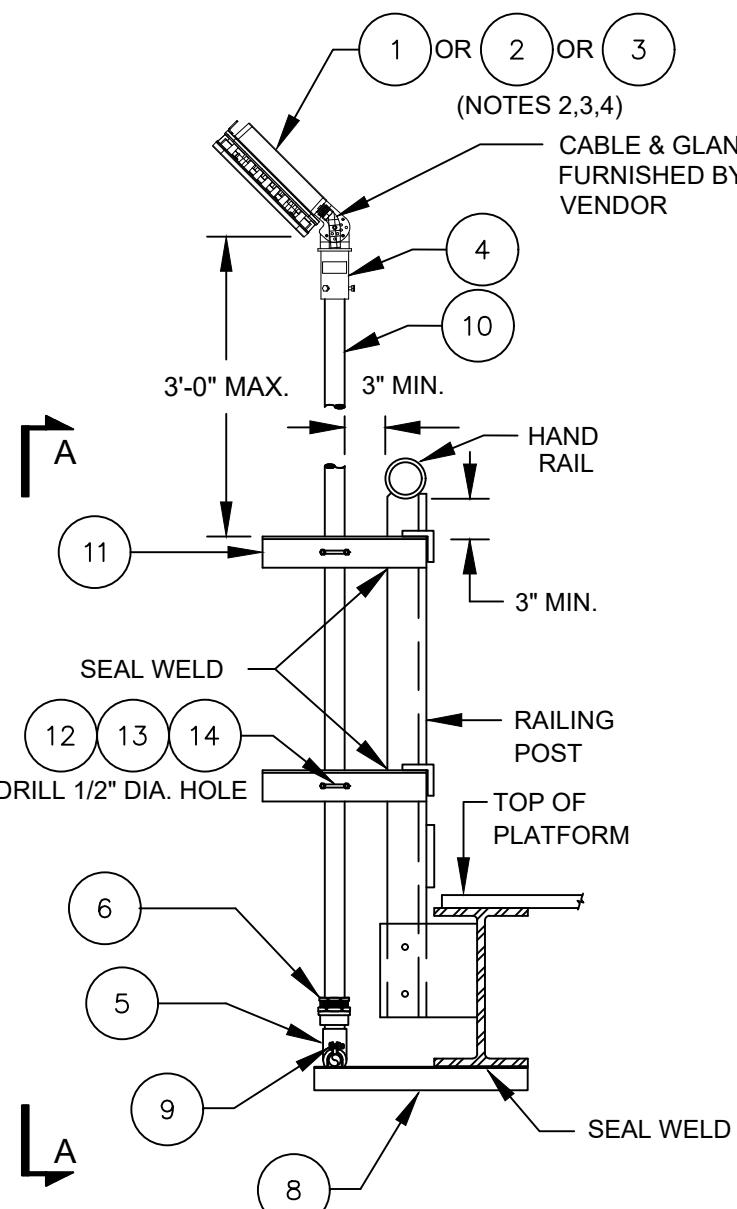
A	B	C	D	E	F	G	H	J	K																																																																																																																																																																																																																																																																																																		
L35A/B/C/D/E/F/G/H/I									TPENG ITEM CODE																																																																																																																																																																																																																																																																																																		
<p>(NOTE 7) 5 (NOTE 7) 11 (NOTE 7) 13, 14, 15, 16 STRUCTURAL STEEL (NOTES 3,5,6) 17 (NOTES 1,2) 1 OR 2 OR 3 8, 9</p> <p>DETAIL L35A/L35C/L35E FIXTURE MOUNTED ON STEEL</p>																																																																																																																																																																																																																																																																																																											
<p>(NOTE 7) 5 (NOTE 7) 11 (NOTE 7) 13, 14, 15, 16 CONCRETE (NOTES 1,2) 1 OR 2 OR 3 8, 9</p> <p>DETAIL L35G/L35H/L35I FIXTURE MOUNTED ON CONCRETE OR COLUMN</p>																																																																																																																																																																																																																																																																																																											
<p>(NOTE 7) 5 (NOTE 7) 11 (NOTE 7) 13, 14, 15, 16 STRUCTURAL STEEL (NOTES 3,4,5,6) 20, 21, 22 (NOTES 1,2) 1 OR 2 OR 3 8, 9</p> <p>DETAIL L35B/L35D/L35F FIXTURE MOUNTED ON FIREPROOFED STEEL</p>																																																																																																																																																																																																																																																																																																											
<table border="1"> <thead> <tr> <th colspan="2">BILL OF MATERIAL</th> </tr> <tr> <th>ITEM</th><th>L35A QTY</th><th>L35B QTY</th><th>L35C QTY</th><th>L35D QTY</th><th>L35E QTY</th><th>L35F QTY</th><th>L35G QTY</th><th>L35H QTY</th><th>L35I QTY</th><th>UNIT</th><th>TPENG ITEM CODE</th></tr> </thead> <tbody> <tr><td>1</td><td>1</td><td>1</td><td>-</td><td>-</td><td>-</td><td>-</td><td>1</td><td>-</td><td>-</td><td>EA</td><td>16LTGW990098</td></tr> <tr><td>2</td><td>-</td><td>-</td><td>1</td><td>1</td><td>-</td><td>-</td><td>-</td><td>1</td><td>-</td><td>EA</td><td>16LTGW990099</td></tr> <tr><td>3</td><td>-</td><td>-</td><td>-</td><td>-</td><td>1</td><td>1</td><td>-</td><td>-</td><td>1</td><td>EA</td><td>16LTGW990100</td></tr> <tr><td>4</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>FT</td><td>16CONS050020</td></tr> <tr><td>5</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>EA</td><td>16CONF150185</td></tr> <tr><td>6</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>EA</td><td>16CONF150189</td></tr> <tr><td>7</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>EA</td><td>16CONF990203</td></tr> <tr><td>8</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>EA</td><td>16CONF140152</td></tr> <tr><td>9</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>EA</td><td>16DRNB080001</td></tr> <tr><td>10</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>EA</td><td>16CONF140136</td></tr> <tr><td>11</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>EA</td><td>16CONF140138</td></tr> <tr><td>12</td><td>4</td><td>-</td><td>4</td><td>-</td><td>4</td><td>-</td><td>4</td><td>4</td><td>4</td><td>FT</td><td>16STUS060064</td></tr> <tr><td>13</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>EA</td><td>16HWRX260044</td></tr> <tr><td>14</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>EA</td><td>16HWRX260006</td></tr> <tr><td>15</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>EA</td><td>16HWRX260060</td></tr> <tr><td>16</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>EA</td><td>16HWRX260069</td></tr> <tr><td>17</td><td>8</td><td>-</td><td>8</td><td>-</td><td>8</td><td>-</td><td>8</td><td>8</td><td>8</td><td>EA</td><td>16HWRX260009</td></tr> <tr><td>18</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>EA</td><td>16STUA260014</td></tr> <tr><td>19</td><td>-</td><td>4</td><td>-</td><td>4</td><td>-</td><td>4</td><td>-</td><td>-</td><td>-</td><td>EA</td><td>16STUS060056</td></tr> <tr><td>20</td><td>-</td><td>8</td><td>-</td><td>8</td><td>-</td><td>8</td><td>-</td><td>-</td><td>-</td><td>EA</td><td>16HWRX260098</td></tr> <tr><td>21</td><td>-</td><td>8</td><td>-</td><td>8</td><td>-</td><td>8</td><td>-</td><td>-</td><td>-</td><td>EA</td><td>16HLTX990001</td></tr> <tr><td>22</td><td>-</td><td>8</td><td>-</td><td>8</td><td>-</td><td>8</td><td>-</td><td>-</td><td>-</td><td>EA</td><td>16HLTX990003</td></tr> <tr><td>23</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>2</td><td>2</td><td>2</td><td>EA</td><td>16HWRX260166</td></tr> </tbody> </table>										BILL OF MATERIAL		ITEM	L35A QTY	L35B QTY	L35C QTY	L35D QTY	L35E QTY	L35F QTY	L35G QTY	L35H QTY	L35I QTY	UNIT	TPENG ITEM CODE	1	1	1	-	-	-	-	1	-	-	EA	16LTGW990098	2	-	-	1	1	-	-	-	1	-	EA	16LTGW990099	3	-	-	-	-	1	1	-	-	1	EA	16LTGW990100	4	3	3	3	3	3	3	3	3	3	FT	16CONS050020	5	1	1	1	1	1	1	1	1	1	EA	16CONF150185	6	1	1	1	1	1	1	1	1	1	EA	16CONF150189	7	1	1	1	1	1	1	1	1	1	EA	16CONF990203	8	1	1	1	1	1	1	1	1	1	EA	16CONF140152	9	1	1	1	1	1	1	1	1	1	EA	16DRNB080001	10	2	2	2	2	2	2	2	2	2	EA	16CONF140136	11	1	1	1	1	1	1	1	1	1	EA	16CONF140138	12	4	-	4	-	4	-	4	4	4	FT	16STUS060064	13	4	4	4	4	4	4	4	4	4	EA	16HWRX260044	14	4	4	4	4	4	4	4	4	4	EA	16HWRX260006	15	4	4	4	4	4	4	4	4	4	EA	16HWRX260060	16	4	4	4	4	4	4	4	4	4	EA	16HWRX260069	17	8	-	8	-	8	-	8	8	8	EA	16HWRX260009	18	2	2	2	2	2	2	2	2	2	EA	16STUA260014	19	-	4	-	4	-	4	-	-	-	EA	16STUS060056	20	-	8	-	8	-	8	-	-	-	EA	16HWRX260098	21	-	8	-	8	-	8	-	-	-	EA	16HLTX990001	22	-	8	-	8	-	8	-	-	-	EA	16HLTX990003	23	-	-	-	-	-	-	2	2	2	EA	16HWRX260166
BILL OF MATERIAL																																																																																																																																																																																																																																																																																																											
ITEM	L35A QTY	L35B QTY	L35C QTY	L35D QTY	L35E QTY	L35F QTY	L35G QTY	L35H QTY	L35I QTY	UNIT	TPENG ITEM CODE																																																																																																																																																																																																																																																																																																
1	1	1	-	-	-	-	1	-	-	EA	16LTGW990098																																																																																																																																																																																																																																																																																																
2	-	-	1	1	-	-	-	1	-	EA	16LTGW990099																																																																																																																																																																																																																																																																																																
3	-	-	-	-	1	1	-	-	1	EA	16LTGW990100																																																																																																																																																																																																																																																																																																
4	3	3	3	3	3	3	3	3	3	FT	16CONS050020																																																																																																																																																																																																																																																																																																
5	1	1	1	1	1	1	1	1	1	EA	16CONF150185																																																																																																																																																																																																																																																																																																
6	1	1	1	1	1	1	1	1	1	EA	16CONF150189																																																																																																																																																																																																																																																																																																
7	1	1	1	1	1	1	1	1	1	EA	16CONF990203																																																																																																																																																																																																																																																																																																
8	1	1	1	1	1	1	1	1	1	EA	16CONF140152																																																																																																																																																																																																																																																																																																
9	1	1	1	1	1	1	1	1	1	EA	16DRNB080001																																																																																																																																																																																																																																																																																																
10	2	2	2	2	2	2	2	2	2	EA	16CONF140136																																																																																																																																																																																																																																																																																																
11	1	1	1	1	1	1	1	1	1	EA	16CONF140138																																																																																																																																																																																																																																																																																																
12	4	-	4	-	4	-	4	4	4	FT	16STUS060064																																																																																																																																																																																																																																																																																																
13	4	4	4	4	4	4	4	4	4	EA	16HWRX260044																																																																																																																																																																																																																																																																																																
14	4	4	4	4	4	4	4	4	4	EA	16HWRX260006																																																																																																																																																																																																																																																																																																
15	4	4	4	4	4	4	4	4	4	EA	16HWRX260060																																																																																																																																																																																																																																																																																																
16	4	4	4	4	4	4	4	4	4	EA	16HWRX260069																																																																																																																																																																																																																																																																																																
17	8	-	8	-	8	-	8	8	8	EA	16HWRX260009																																																																																																																																																																																																																																																																																																
18	2	2	2	2	2	2	2	2	2	EA	16STUA260014																																																																																																																																																																																																																																																																																																
19	-	4	-	4	-	4	-	-	-	EA	16STUS060056																																																																																																																																																																																																																																																																																																
20	-	8	-	8	-	8	-	-	-	EA	16HWRX260098																																																																																																																																																																																																																																																																																																
21	-	8	-	8	-	8	-	-	-	EA	16HLTX990001																																																																																																																																																																																																																																																																																																
22	-	8	-	8	-	8	-	-	-	EA	16HLTX990003																																																																																																																																																																																																																																																																																																
23	-	-	-	-	-	-	2	2	2	EA	16HWRX260166																																																																																																																																																																																																																																																																																																
<p>(NOTE 7) 5 (NOTE 7) 11 (NOTE 7) 13, 14, 15, 16 CONCRETE (NOTES 1,2) 1 OR 2 OR 3 8, 9</p> <p>DETAIL A</p>																																																																																																																																																																																																																																																																																																											
<p>(NOTE 7) 10 (NOTE 7) 18, 19 (NOTE 7) 13, 14, 15, 16 STRUCTURAL STEEL (NOTES 3,4,5,6) 20, 21, 22 (NOTES 1,2) 1 OR 2 OR 3 8, 9</p>																																																																																																																																																																																																																																																																																																											
<table border="1"> <tr> <td>A</td><td>ISSUED FOR REVIEW</td><td>10-02-2023</td><td>FV</td><td>LNW</td><td>VW</td><td>VVA</td></tr> <tr> <td>REV</td><td>REVISION DESCRIPTION</td><td>DATE</td><td>DRAWN</td><td>CHECKED</td><td>APPROVED</td><td>PROJ APR</td></tr> </table> <p>CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. USE OR DISCLOSURE OF THIS INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGY N.V. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.</p> <p>CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA</p> <p>TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS WALL MOUNTED L. FIXTURE ON STEEL STR./CONC. FOR NON-HAZARDOUS AREA CLASSIFICATION "L35"</p> <p>TEN TECHNIP ENERGY COMMONWEALTH LNG</p> <table border="1"> <tr> <td>SCALE</td><td>CLIENT NUMBER</td><td>DRAWN BY</td></tr> <tr> <td></td><td></td><td>FV</td></tr> <tr> <td>PROJECT NUMBER</td><td>TECHNIP ENERGY NUMBER</td><td>REVISION</td></tr> <tr> <td>078051C</td><td>078051C-000-STD-1683-0001-39</td><td>A</td></tr> </table>										A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VW	VVA	REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR	SCALE	CLIENT NUMBER	DRAWN BY			FV	PROJECT NUMBER	TECHNIP ENERGY NUMBER	REVISION	078051C	078051C-000-STD-1683-0001-39	A																																																																																																																																																																																																																																																																								
A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VW	VVA																																																																																																																																																																																																																																																																																																					
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR																																																																																																																																																																																																																																																																																																					
SCALE	CLIENT NUMBER	DRAWN BY																																																																																																																																																																																																																																																																																																									
		FV																																																																																																																																																																																																																																																																																																									
PROJECT NUMBER	TECHNIP ENERGY NUMBER	REVISION																																																																																																																																																																																																																																																																																																									
078051C	078051C-000-STD-1683-0001-39	A																																																																																																																																																																																																																																																																																																									

A	B	C	D	E	F	G	H	J	K																																																																																																																																																																																																																																																																																																			
L36A/B/C/D/E/F/G/H/I									TPENG ITEM CODE																																																																																																																																																																																																																																																																																																			
<table border="1"> <thead> <tr> <th>ITEM</th><th>L36A QTY</th><th>L36B QTY</th><th>L36C QTY</th><th>L36D QTY</th><th>L36E QTY</th><th>L36F QTY</th><th>L36G QTY</th><th>L36H QTY</th><th>L36I QTY</th><th>UNIT</th><th>BILL OF MATERIAL</th><th>TPENG ITEM CODE</th></tr> </thead> <tbody> <tr><td>1</td><td>1</td><td>1</td><td>-</td><td>-</td><td>-</td><td>-</td><td>1</td><td>-</td><td>-</td><td>EA</td><td>LED, CHAMP PFMVA FLOOD, YOKE MOUNT, 67W, 120-277VAC, 5000K, 3/4" HUB</td><td>16LTGF990089</td></tr> <tr><td>2</td><td>-</td><td>-</td><td>1</td><td>1</td><td>-</td><td>-</td><td>-</td><td>1</td><td>-</td><td>EA</td><td>LED, CHAMP PFMVA FLOOD, YOKE MOUNT, 82W, 120-277VAC, 5000K, 3/4" HUB</td><td>16LTGF990090</td></tr> <tr><td>3</td><td>-</td><td>-</td><td>-</td><td>-</td><td>1</td><td>1</td><td>-</td><td>-</td><td>1</td><td>EA</td><td>LED, CHAMP PFMVA FLOOD, YOKE MOUNT, 93W, 120-277VAC, 5000K, 3/4" HUB</td><td>16LTGF990091</td></tr> <tr><td>4</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>EA</td><td>TENON TOPPER, POLE SET SCREWS AND MOUNTING HARDWARE, FLOODLIGHT</td><td>16LTGB990008</td></tr> <tr><td>5</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>EA</td><td>BRACKET, RIGHT ANGLE, FOR FLOOD LIGHT</td><td>16LTGB990007</td></tr> <tr><td>6</td><td>2</td><td>-</td><td>2</td><td>-</td><td>2</td><td>-</td><td>2</td><td>2</td><td>2</td><td>FT</td><td>STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SOLID</td><td>16STUS060003</td></tr> <tr><td>7</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>EA</td><td>MACHINE BOLT 1/2" X 1-1/2", HEX HEAD NC THREADS 316 STAINLESS STEEL</td><td>16HWRX260088</td></tr> <tr><td>8</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>EA</td><td>SPRING NUT 1/2-13 316SS</td><td>16HWRX260002</td></tr> <tr><td>9</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>EA</td><td>WASHER, FLAT 1/2" 316 STAINLESS STEEL</td><td>16HWRX260081</td></tr> <tr><td>10</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>EA</td><td>WASHER, LOCK 1/2", 316 STAINLESS STEEL</td><td>16HWRX260012</td></tr> <tr><td>11</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>FT</td><td>CONDUIT 3/4", FLEXIBLE LIQUIDLIGHT, PVC JACKET, STEEL CORE, TYPE UA/LA-GRAY</td><td>16CONS110011</td></tr> <tr><td>12</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>EA</td><td>CONNECTOR, 3/4", LIQUIDLIGHT INSULATED THROAT, TYPE STB</td><td>16CONF110171</td></tr> <tr><td>13</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>EA</td><td>CONDULET, OUTLET BOX, 3/4", TYPE "GUAB", GALVANIZED, W/ COVER AND GASKET</td><td>16CONF050331</td></tr> <tr><td>14</td><td>4</td><td>-</td><td>4</td><td>-</td><td>4</td><td>-</td><td>-</td><td>-</td><td>-</td><td>EA</td><td>STUD, THREADED, 3/8", X-BT-MR W10/15 SN 8, WITH NUT, 316 STAINLESS STEEL</td><td>16HWRX260009</td></tr> <tr><td>15</td><td>-</td><td>2</td><td>-</td><td>2</td><td>-</td><td>2</td><td>-</td><td>-</td><td>-</td><td>FT</td><td>STRUT, HS-1-5/8" X 1-5/8", 12 GAUGE, HDG</td><td>16STUS060056</td></tr> <tr><td>16</td><td>-</td><td>4</td><td>-</td><td>4</td><td>-</td><td>4</td><td>-</td><td>-</td><td>-</td><td>EA</td><td>STUD, THREADED, 8MM, X-BT-GR M8/7 SN 8, W/O NUT, 316 STAINLESS STEEL</td><td>16HWRX260098</td></tr> <tr><td>17</td><td>-</td><td>4</td><td>-</td><td>4</td><td>-</td><td>4</td><td>-</td><td>-</td><td>-</td><td>EA</td><td>STAND-OFF ADAPTOR, HILTI, M8-MF 25, 1" LONG, WITH NUT, HDG</td><td>16HLTX990001</td></tr> <tr><td>18</td><td>-</td><td>4</td><td>-</td><td>4</td><td>-</td><td>4</td><td>-</td><td>-</td><td>-</td><td>EA</td><td>PLATE, MQZ-L9-F</td><td>16HLTX990003</td></tr> <tr><td>19</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>4</td><td>4</td><td>4</td><td>EA</td><td>EXPANSION ANCHOR, 3/8" X 1-1/2", 316 STAINLESS STEEL, WITH FLAT WASHER AND NUT</td><td>16HWRX260166</td></tr> <tr><td>20</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>-</td><td>-</td><td>-</td><td>EA</td><td>BEAM CLAMP FOR 3/4" CHANNEL</td><td>16STUA120068</td></tr> <tr><td>21</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>-</td><td>-</td><td>-</td><td>EA</td><td>CONDUIT HANGER FOR 3/4" FOR BEAM CLAMP 3/4"</td><td>16STUA120069</td></tr> <tr><td>22</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>1</td><td>1</td><td>1</td><td>EA</td><td>CONDUIT STRAP, 3/4" SS WITH SS6 HARDWARE, USE WITH 1 5/8" STRUT CHANNEL</td><td>16STUA260014</td></tr> </tbody> </table>		ITEM	L36A QTY	L36B QTY	L36C QTY	L36D QTY	L36E QTY	L36F QTY	L36G QTY	L36H QTY	L36I QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE	1	1	1	-	-	-	-	1	-	-	EA	LED, CHAMP PFMVA FLOOD, YOKE MOUNT, 67W, 120-277VAC, 5000K, 3/4" HUB	16LTGF990089	2	-	-	1	1	-	-	-	1	-	EA	LED, CHAMP PFMVA FLOOD, YOKE MOUNT, 82W, 120-277VAC, 5000K, 3/4" HUB	16LTGF990090	3	-	-	-	-	1	1	-	-	1	EA	LED, CHAMP PFMVA FLOOD, YOKE MOUNT, 93W, 120-277VAC, 5000K, 3/4" HUB	16LTGF990091	4	1	1	1	1	1	1	1	1	1	EA	TENON TOPPER, POLE SET SCREWS AND MOUNTING HARDWARE, FLOODLIGHT	16LTGB990008	5	1	1	1	1	1	1	1	1	1	EA	BRACKET, RIGHT ANGLE, FOR FLOOD LIGHT	16LTGB990007	6	2	-	2	-	2	-	2	2	2	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SOLID	16STUS060003	7	4	4	4	4	4	4	4	4	4	EA	MACHINE BOLT 1/2" X 1-1/2", HEX HEAD NC THREADS 316 STAINLESS STEEL	16HWRX260088	8	4	4	4	4	4	4	4	4	4	EA	SPRING NUT 1/2-13 316SS	16HWRX260002	9	4	4	4	4	4	4	4	4	4	EA	WASHER, FLAT 1/2" 316 STAINLESS STEEL	16HWRX260081	10	4	4	4	4	4	4	4	4	4	EA	WASHER, LOCK 1/2", 316 STAINLESS STEEL	16HWRX260012	11	3	3	3	3	3	3	3	3	3	FT	CONDUIT 3/4", FLEXIBLE LIQUIDLIGHT, PVC JACKET, STEEL CORE, TYPE UA/LA-GRAY	16CONS110011	12	2	2	2	2	2	2	2	2	2	EA	CONNECTOR, 3/4", LIQUIDLIGHT INSULATED THROAT, TYPE STB	16CONF110171	13	1	1	1	1	1	1	1	1	1	EA	CONDULET, OUTLET BOX, 3/4", TYPE "GUAB", GALVANIZED, W/ COVER AND GASKET	16CONF050331	14	4	-	4	-	4	-	-	-	-	EA	STUD, THREADED, 3/8", X-BT-MR W10/15 SN 8, WITH NUT, 316 STAINLESS STEEL	16HWRX260009	15	-	2	-	2	-	2	-	-	-	FT	STRUT, HS-1-5/8" X 1-5/8", 12 GAUGE, HDG	16STUS060056	16	-	4	-	4	-	4	-	-	-	EA	STUD, THREADED, 8MM, X-BT-GR M8/7 SN 8, W/O NUT, 316 STAINLESS STEEL	16HWRX260098	17	-	4	-	4	-	4	-	-	-	EA	STAND-OFF ADAPTOR, HILTI, M8-MF 25, 1" LONG, WITH NUT, HDG	16HLTX990001	18	-	4	-	4	-	4	-	-	-	EA	PLATE, MQZ-L9-F	16HLTX990003	19	-	-	-	-	-	-	4	4	4	EA	EXPANSION ANCHOR, 3/8" X 1-1/2", 316 STAINLESS STEEL, WITH FLAT WASHER AND NUT	16HWRX260166	20	1	1	1	1	1	1	-	-	-	EA	BEAM CLAMP FOR 3/4" CHANNEL	16STUA120068	21	1	1	1	1	1	1	-	-	-	EA	CONDUIT HANGER FOR 3/4" FOR BEAM CLAMP 3/4"	16STUA120069	22	-	-	-	-	-	-	1	1	1	EA	CONDUIT STRAP, 3/4" SS WITH SS6 HARDWARE, USE WITH 1 5/8" STRUT CHANNEL	16STUA260014
ITEM	L36A QTY	L36B QTY	L36C QTY	L36D QTY	L36E QTY	L36F QTY	L36G QTY	L36H QTY	L36I QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE																																																																																																																																																																																																																																																																																																
1	1	1	-	-	-	-	1	-	-	EA	LED, CHAMP PFMVA FLOOD, YOKE MOUNT, 67W, 120-277VAC, 5000K, 3/4" HUB	16LTGF990089																																																																																																																																																																																																																																																																																																
2	-	-	1	1	-	-	-	1	-	EA	LED, CHAMP PFMVA FLOOD, YOKE MOUNT, 82W, 120-277VAC, 5000K, 3/4" HUB	16LTGF990090																																																																																																																																																																																																																																																																																																
3	-	-	-	-	1	1	-	-	1	EA	LED, CHAMP PFMVA FLOOD, YOKE MOUNT, 93W, 120-277VAC, 5000K, 3/4" HUB	16LTGF990091																																																																																																																																																																																																																																																																																																
4	1	1	1	1	1	1	1	1	1	EA	TENON TOPPER, POLE SET SCREWS AND MOUNTING HARDWARE, FLOODLIGHT	16LTGB990008																																																																																																																																																																																																																																																																																																
5	1	1	1	1	1	1	1	1	1	EA	BRACKET, RIGHT ANGLE, FOR FLOOD LIGHT	16LTGB990007																																																																																																																																																																																																																																																																																																
6	2	-	2	-	2	-	2	2	2	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SOLID	16STUS060003																																																																																																																																																																																																																																																																																																
7	4	4	4	4	4	4	4	4	4	EA	MACHINE BOLT 1/2" X 1-1/2", HEX HEAD NC THREADS 316 STAINLESS STEEL	16HWRX260088																																																																																																																																																																																																																																																																																																
8	4	4	4	4	4	4	4	4	4	EA	SPRING NUT 1/2-13 316SS	16HWRX260002																																																																																																																																																																																																																																																																																																
9	4	4	4	4	4	4	4	4	4	EA	WASHER, FLAT 1/2" 316 STAINLESS STEEL	16HWRX260081																																																																																																																																																																																																																																																																																																
10	4	4	4	4	4	4	4	4	4	EA	WASHER, LOCK 1/2", 316 STAINLESS STEEL	16HWRX260012																																																																																																																																																																																																																																																																																																
11	3	3	3	3	3	3	3	3	3	FT	CONDUIT 3/4", FLEXIBLE LIQUIDLIGHT, PVC JACKET, STEEL CORE, TYPE UA/LA-GRAY	16CONS110011																																																																																																																																																																																																																																																																																																
12	2	2	2	2	2	2	2	2	2	EA	CONNECTOR, 3/4", LIQUIDLIGHT INSULATED THROAT, TYPE STB	16CONF110171																																																																																																																																																																																																																																																																																																
13	1	1	1	1	1	1	1	1	1	EA	CONDULET, OUTLET BOX, 3/4", TYPE "GUAB", GALVANIZED, W/ COVER AND GASKET	16CONF050331																																																																																																																																																																																																																																																																																																
14	4	-	4	-	4	-	-	-	-	EA	STUD, THREADED, 3/8", X-BT-MR W10/15 SN 8, WITH NUT, 316 STAINLESS STEEL	16HWRX260009																																																																																																																																																																																																																																																																																																
15	-	2	-	2	-	2	-	-	-	FT	STRUT, HS-1-5/8" X 1-5/8", 12 GAUGE, HDG	16STUS060056																																																																																																																																																																																																																																																																																																
16	-	4	-	4	-	4	-	-	-	EA	STUD, THREADED, 8MM, X-BT-GR M8/7 SN 8, W/O NUT, 316 STAINLESS STEEL	16HWRX260098																																																																																																																																																																																																																																																																																																
17	-	4	-	4	-	4	-	-	-	EA	STAND-OFF ADAPTOR, HILTI, M8-MF 25, 1" LONG, WITH NUT, HDG	16HLTX990001																																																																																																																																																																																																																																																																																																
18	-	4	-	4	-	4	-	-	-	EA	PLATE, MQZ-L9-F	16HLTX990003																																																																																																																																																																																																																																																																																																
19	-	-	-	-	-	-	4	4	4	EA	EXPANSION ANCHOR, 3/8" X 1-1/2", 316 STAINLESS STEEL, WITH FLAT WASHER AND NUT	16HWRX260166																																																																																																																																																																																																																																																																																																
20	1	1	1	1	1	1	-	-	-	EA	BEAM CLAMP FOR 3/4" CHANNEL	16STUA120068																																																																																																																																																																																																																																																																																																
21	1	1	1	1	1	1	-	-	-	EA	CONDUIT HANGER FOR 3/4" FOR BEAM CLAMP 3/4"	16STUA120069																																																																																																																																																																																																																																																																																																
22	-	-	-	-	-	-	1	1	1	EA	CONDUIT STRAP, 3/4" SS WITH SS6 HARDWARE, USE WITH 1 5/8" STRUT CHANNEL	16STUA260014																																																																																																																																																																																																																																																																																																
<p>SIDE VIEW</p> <p>DETAIL L36A/L36C/L36E FIXTURE MOUNTED ON STEEL</p>																																																																																																																																																																																																																																																																																																												
<p>SIDE VIEW</p> <p>DETAIL L36G/L36H/L36I FIXTURE MOUNTED ON CONCRETE</p>																																																																																																																																																																																																																																																																																																												
<p>SIDE VIEW</p> <p>DETAIL L36B/L36D/L36F FIXTURE MOUNTED ON FIREPROOFED STEEL</p>																																																																																																																																																																																																																																																																																																												
<p>NOTES:</p> <ol style="list-style-type: none"> FOR MOUNTING HEIGHT SEE PLAN DWG. 078051C-1000-DW-1632. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65. FOR INSTALLATION OF HILTI STUD STRUCTURAL STEEL MUST BE AT LEAST 5/16" THICK. LOCATE STUD AT LEAST 1/4" MINIMUM FROM EDGE OF STEEL. FIREPROOFING, WHEN PRESENT, TO BE REMOVED AND REPAIRED AFTER CHANNEL INSTALLATION. PRE-DRILLED HOLE MUST BE CLEAR OF ALL DEBRIS, WATER, OIL, ETC. PRIOR TO INSTALLATION OF STUD. INSTALL 3/8" FLANGE NUT USING HILTI RECOMMENDED TORQUE SETTING. CONDUIT TO BE FIXED BY CONSTRUCTION CONTRACTOR. 																																																																																																																																																																																																																																																																																																												
<p>CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS UNAUTHORIZED TO REPRODUCE, DISTRIBUTE, OR DISCLOSE THIS INFORMATION EXCEPT IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES NV, AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITY FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.</p> <p>CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA</p> <p>TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS FLOODLIGHT MOUNTED ON STEEL STR./CONC. FOR NON-HAZARDOUS AREA CLASSIFICATION "L36"</p> <p>TECHNIP ENERGIES COMMONWEALTH LNG</p> <table border="1"> <tr> <td>SCALE</td><td>CLIENT NUMBER</td><td>DRAWN BY</td></tr> <tr> <td></td><td></td><td>FV</td></tr> <tr> <td>PROJECT NUMBER</td><td>TECHNIP ENERGIES NUMBER</td><td>REVISION</td></tr> <tr> <td>078051C</td><td>078051C-000-STD-1683-0001-40</td><td>A</td></tr> </table>									SCALE	CLIENT NUMBER	DRAWN BY			FV	PROJECT NUMBER	TECHNIP ENERGIES NUMBER	REVISION	078051C	078051C-000-STD-1683-0001-40	A																																																																																																																																																																																																																																																																																								
SCALE	CLIENT NUMBER	DRAWN BY																																																																																																																																																																																																																																																																																																										
		FV																																																																																																																																																																																																																																																																																																										
PROJECT NUMBER	TECHNIP ENERGIES NUMBER	REVISION																																																																																																																																																																																																																																																																																																										
078051C	078051C-000-STD-1683-0001-40	A																																																																																																																																																																																																																																																																																																										

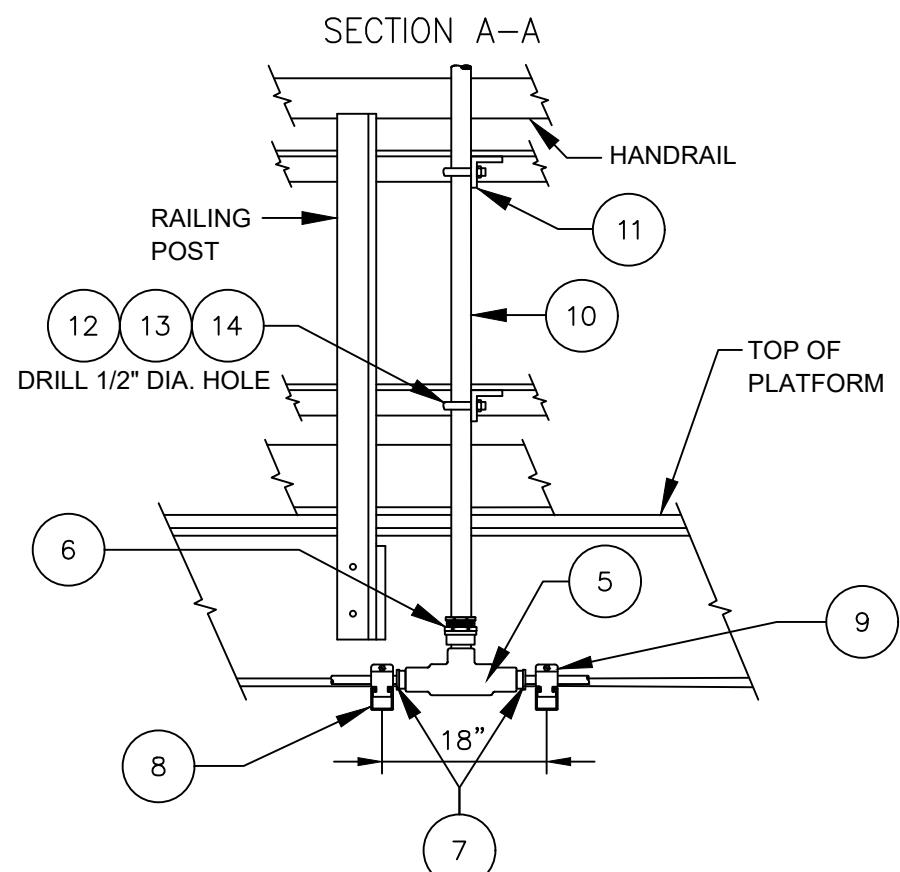
L37A/B/C

NOTES:

1. ALL STEEL HARDWARE SHALL BE 316 STAINLESS STEEL UNLESS OTHERWISE SPECIFIED.
 2. FINAL AIMING ANGLE SHALL BE DETERMINED AT SITE.
 3. FOR MOUNTING HEIGHT SEE PLAN DWG. 078051C-1000-DW-163
 4. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET C
 5. SEE BULK MATERIAL MR (MATERIAL REQUISITION) FOR CABLE GLANDS AND JUNCTION BOXES DEFINITIONS.
 6. FOR "T"- FITTING SIZE REFER TO NOTE SHEET, CHART 1 AND CHART 2 ON SHEET 3



ITEM	L37A QTY	L37B QTY	L37C QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE
1	1	-	-	EA	LED, CHAMP PFMVA FLOOD, YOKE MOUNT, 67W, 120-277VAC, 5000K, 3/4" HUB	16LTGF990089
2	-	1	-	EA	LED, CHAMP PFMVA FLOOD, YOKE MOUNT, 82W, 120-277VAC, 5000K, 3/4" HUB	16LTGF990090
3	-	-	1	EA	LED, CHAMP PFMVA FLOOD, YOKE MOUNT, 93W, 120-277VAC, 5000K, 3/4" HUB	16LTGF990091
4	1	1	1	EA	TENON TOPPER, POLE SET SCREWS AND MOUNTING HARDWARE, FLOODLIGHT	16LTGB990008
5	1	1	1	EA	FITTING, CONDUIT BODY 2", TYPE "T", FORM 8, IRON ALLOY WITH COVER AND GASKET	16CONF150187
6	1	1	1	EA	UNION, CONDUIT, 2", TYPE "UNY" MALE/FEMALE	16CONF990201
7	2	2	2	EA	REDUCER, CONDUIT, 2" X 3/4"	16CONF140143
8	3	3	3	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SOLID	16STUS060003
9	2	2	2	EA	3/4" STAINLESS STEEL STRUT STRAP	16STUA260048
10	10	10	10	FT	CONDUIT 2", RIGID GALVANIZED STEEL	16CONS050023
11	2	2	2	FT	STEEL, ANGLE, L3 X 3 X 1/4, ASTM A36, HDG	16SPTS060009
12	2	2	2	EA	U-BOLT, 3/8" X 2", 2" PIPE, 316 STAINLESS STEEL	16HWRX260122
13	4	4	4	EA	WASHER, FLAT 3/8" 316 STAINLESS STEEL	16HWRX260061
14	4	4	4	EA	NUT, HEX HEAD, 3/8" 316 STAINLESS STEEL	16HWRX260050



A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VWA	
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR	
CONFIDENTIAL							
INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGIES NV BUSINESS LINE AND IS EXCLUDED FROM CONFIDENTIAL AND PROPRIETARY INFORMATION OF THE APPLICABLE ENTITY AND ITS AFFILIATES. THE USE OF THIS INFORMATION IS RESTRICTED ACCORDING TO THE CONTRACTUAL AGREEMENTS BY THE CONTRACT. TECHNIP ENERGIES NV AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.							
CLIENT	<p style="text-align: center;">COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA</p>						
TITLE	<p style="text-align: center;">ELECTRICAL LIGHTING INSTALLATION DETAILS FLOODLIGHT MOUNTED ON HANDRAIL FOR NON-HAZARDOUS AREA CLASSIFICATION "L37"</p>						
 				 COMMONWEALTH LNG			
SCALE				CLIENT NUMBER	DRAWN BY		
					FV		
PROJECT NUMBER				TECHNIP ENERGIES NUMBER	REVISION		
078051C				078051C-000-STD-1683-0001-41	A		

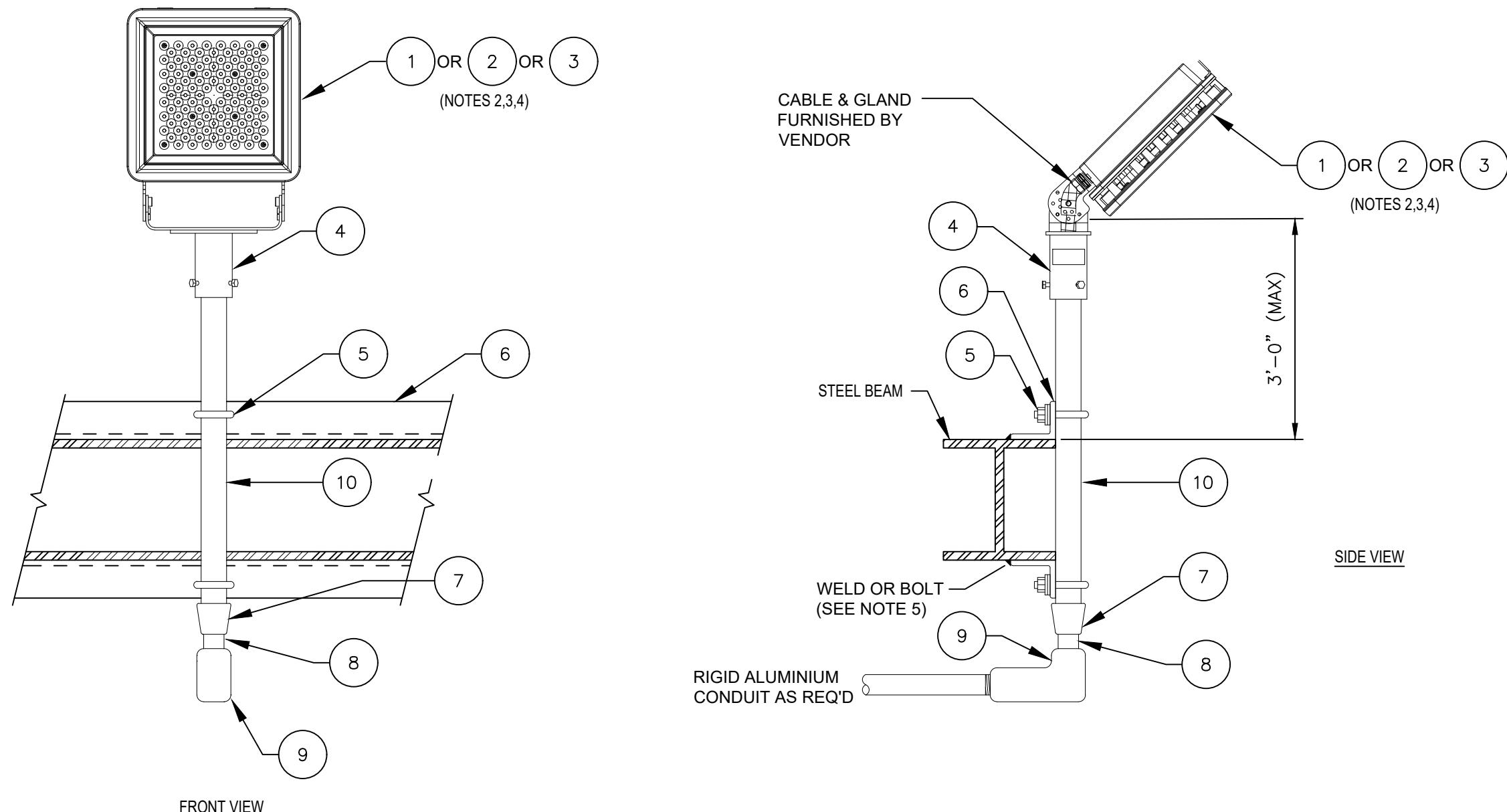
A | B | C | D | E | F | G | H | J | K

L38A/B/C

NOTES:

1. ALL STEEL HARDWARE SHALL BE 316 STAINLESS STEEL UNLESS OTHERWISE SPECIFIED.
2. FINAL AIMING ANGLE SHALL BE DETERMINED AT SITE.
3. FOR MOUNTING HEIGHT SEE PLAN DWG. 078051C-1000-DW-1632.
4. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65.
5. WELDING OF CHANNEL TO STEEL MEMBER REQUIRE PRIOR OWNER'S APPROVAL.

ITEM	L38A QTY	L38B QTY	L38C QTY	UNIT	BILL OF MATERIAL		TPENG ITEM CODE
					1	2	
1	1	-	-	EA	LED, CHAMP PFMVA FLOOD, YOKE MOUNT, 67W, 120-277VAC, 5000K, 3/4" HUB		16LTGF990089
2	-	1	-	EA	LED, CHAMP PFMVA FLOOD, YOKE MOUNT, 82W, 120-277VAC, 5000K, 3/4" HUB		16LTGF990090
3	-	-	1	EA	LED, CHAMP PFMVA FLOOD, YOKE MOUNT, 93W, 120-277VAC, 5000K, 3/4" HUB		16LTGF990091
4	1	1	1	EA	TENON TOPPER, POLE SET SCREWS AND MOUNTING HARDWARE, FLOODLIGHT		16LTGB990008
5	2	2	2	EA	U-BOLT, 3/8" X 2", 2" PIPE, 316 STAINLESS STEEL		16HWRX260122
6	2	2	2	FT	STEEL, ANGLE, L3 X 3 X 1/4, ASTM A36, HDG		16SPTS060009
7	1	1	1	EA	ADAPTER, CONDUIT, MALE TO MALE, 2" X 3/4", GALVANIZED		16CONF050337
8	1	1	1	EA	NIPPLE, CONDUIT, 3/4" X CLOSE		16CONF990216
9	1	1	1	EA	FITTING, CONDUIT BODY 3/4", TYPE "LB", FORM 8, IRON ALLOY WITH COVER AND GASKET		16CONF150101
10	5	5	5	FT	CONDUIT 2", RIGID GALVANIZED STEEL		16CONS050023



A ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS EXCLUDED FROM THE INFORMATION CONTROLLED BY THE CONTRACTUAL AGREEMENTS OF THE COMPANY AND/OR ITS CLIENT. USE OF THE INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES N.V. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.					
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA					
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS FLOODLIGHT MOUNTED ON STEEL BEAM FOR NON-HAZARDOUS AREA CLASSIFICATION "L38"					
TECHNIP ENERGIES		COMMONWEALTH LNG			
SCALE	CLIENT NUMBER	DRAWN BY			
		FV			
PROJECT NUMBER	TECHNIP ENERGIES NUMBER		REVISION		
078051C	078051C-000-STD-1683-0001-42		A		

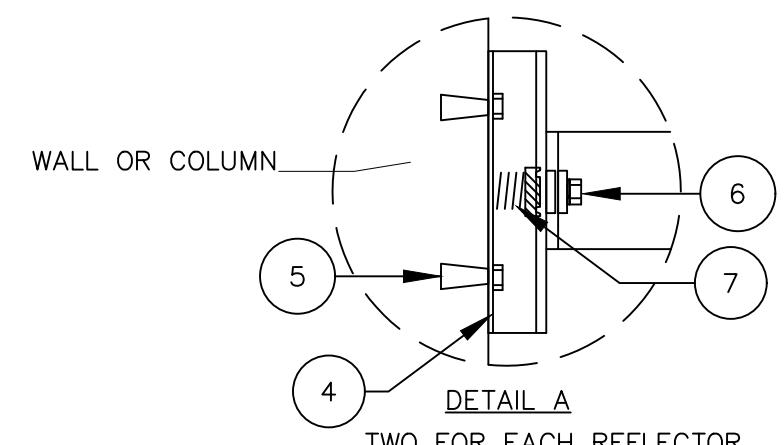
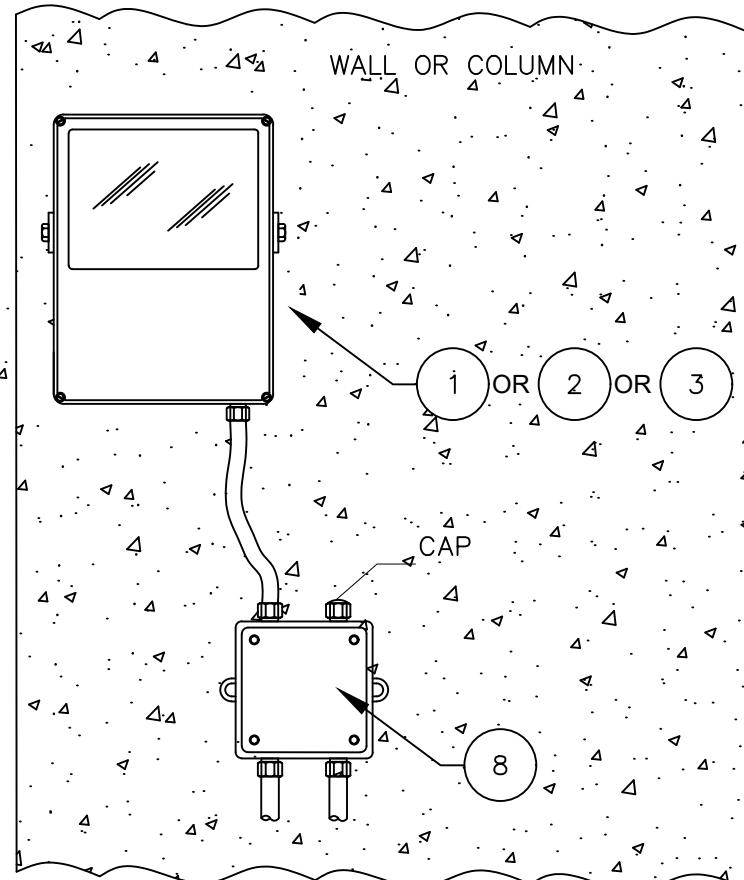
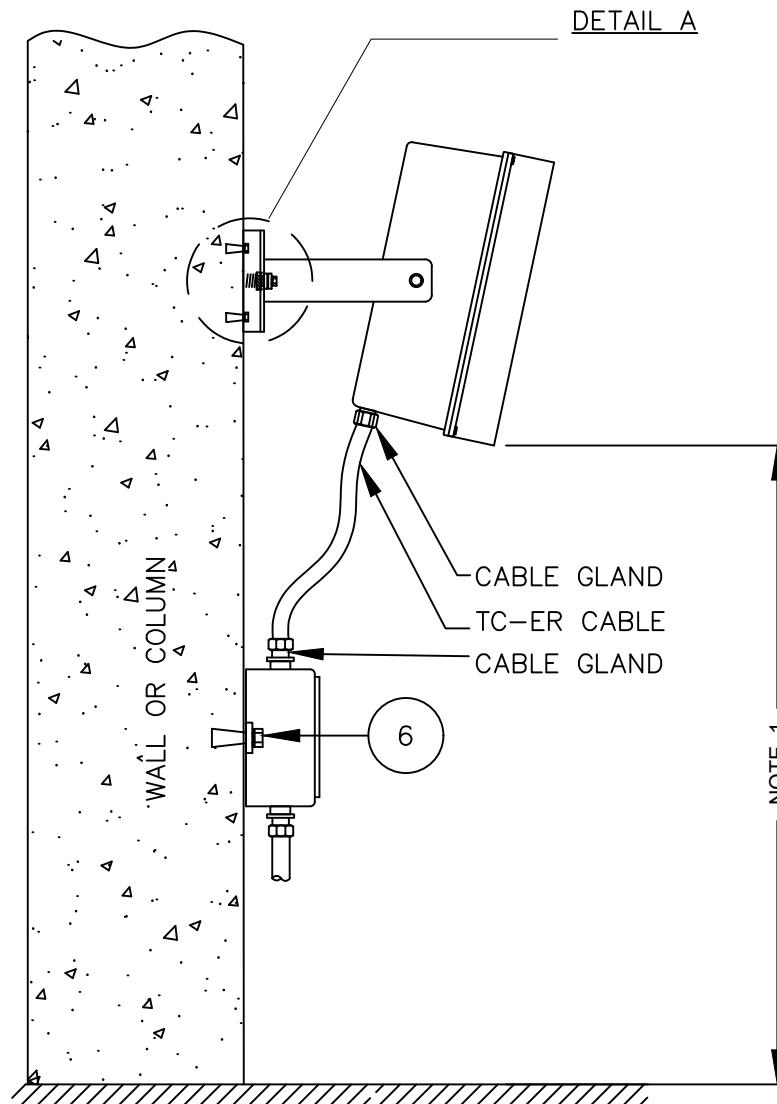
A | B | C | D | E | F | G | H | J | K

L39A/B/C

ITEM	L39A QTY	L39B QTY	L39C QTY	UNIT	BILL OF MATERIAL		TPENG ITEM CODE
1	1	-	-	EA	LED, CHAMP PFMVA FLOOD, YOKE MOUNT, 67W, 120-277VAC, 5000K, 3/4" HUB		16LTGF990089
2	-	1	-	EA	LED, CHAMP PFMVA FLOOD, YOKE MOUNT, 82W, 120-277VAC, 5000K, 3/4" HUB		16LTGF990090
3	-	-	1	EA	LED, CHAMP PFMVA FLOOD, YOKE MOUNT, 93W, 120-277VAC, 5000K, 3/4" HUB		16LTGF990091
4	2	2	2	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED		16STUS060064
5	6	6	6	EA	EXPANSION ANCHOR, 3/8" x 1-1/2", 316 STAINLESS STEEL, WITH FLAT WASHER AND NUT		16HWRX260166
6	2	2	2	EA	MACHINE BOLT 3/8" x 1-1/2" HEX HEAD NC THREADS 316 STAINLESS STEEL		16HWRX260135
7	2	2	2	EA	SPRING NUT 3/8-16 316 SS		16HWRX260004
8	1	1	1	EA	JUNCTION BOX GHG, 2 UP TO 8 TERMINALS		16JBXX990027

NOTES:

1. FINAL AIMING ANGLE SHALL BE DETERMINED AT SITE.
2. FOR MOUNTING HEIGHT SEE PLAN DWG. 078051C-1000-DW-1632.
3. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65.
4. WELDING OF CHANNEL TO STEEL MEMBER REQUIRE PRIOR OWNER'S APPROVAL.
5. SEE BULK MATERIAL MR (MATERIAL REQUISITION) FOR CABLE GLANDS AND JUNCTION BOXES DEFINITIONS

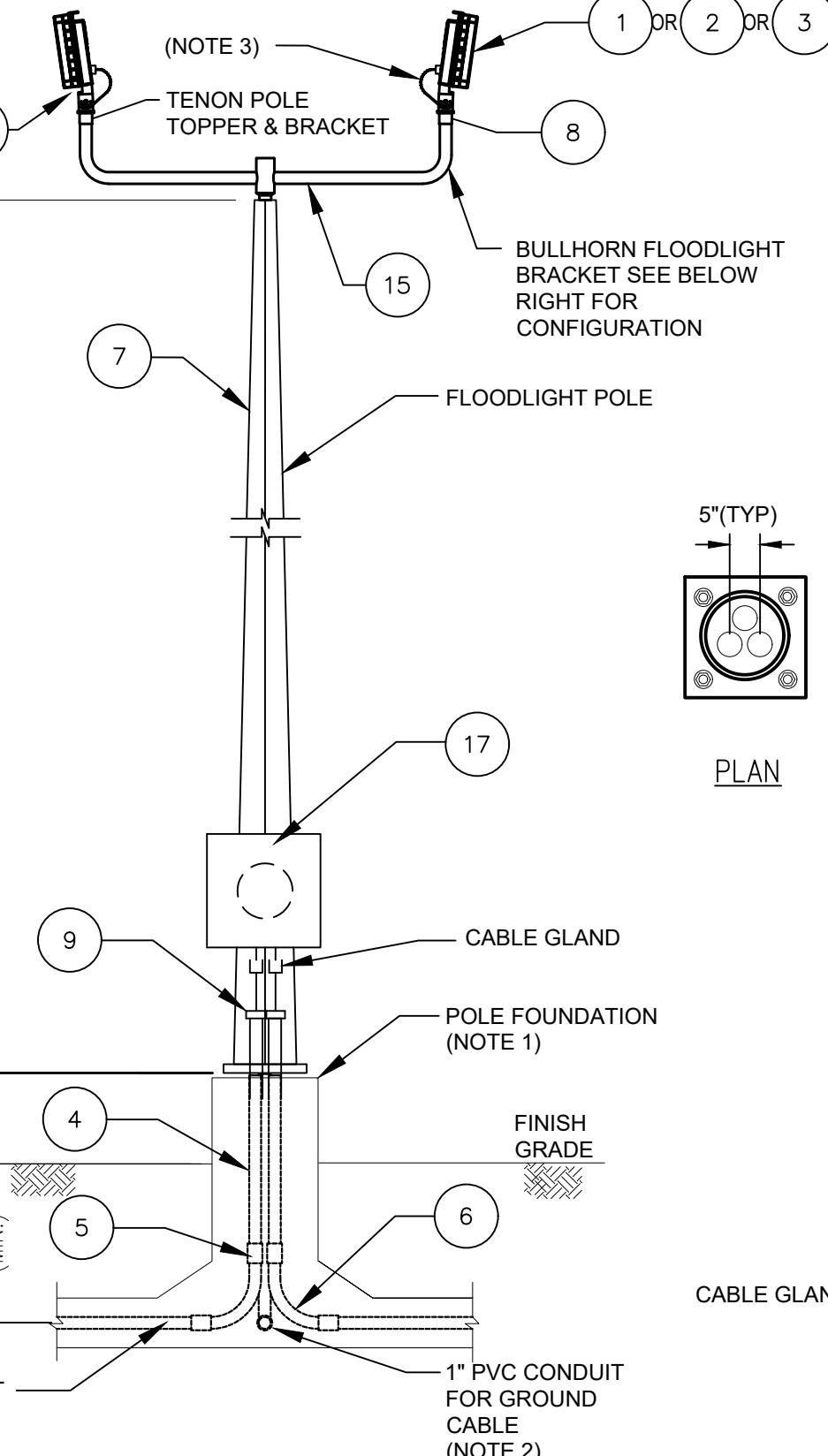


A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS UNPUBLISHED CONFIDENTIAL INFORMATION OWNED BY THE COMPANY AND/OR ITS AFFILIATES AND/OR ITS CLIENT. USE OF THE INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES N.V. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS FLOODLIGHT MOUNTED ON CONCRETE COLUMN FOR NON-HAZARDOUS AREA CLASSIFICATION "L39"						
SCALE	CLIENT NUMBER	DRAWN BY				
		FV				
PROJECT NUMBER	TECHNIP ENERGIES NUMBER			REVISION		
078051C	078051C-000-STD-1683-0001-43			A		

A	B	C	D	E	F	G	H	J	K
L40A/B/C									
NOTES:									
1. CONCRETE FOUNDATION AND ANCHOR BOLT SIZE AND PATTERN SHALL BE SHOWN ON CIVIL STRUCTURAL DRAWINGS BASED ON POLE VENDOR DATA OBTAINED FROM ELECTRICA GROUP.									
2. FOR LIGHTING POLE GROUNDING SEE GROUNDING DETAIL.									
3. TC CABLE WILL CONNECT TO FIXTURE AND BE SPLICED AT HAND HOLE OR POLE.									
4. FINAL AIMING ANGLE SHALL BE DETERMINED AT SITE. SEE PLAN DRAWING FOR MOUNTING HEIGHT/ELEVATION.									
5. SEE BULK MATERIAL MR (MATERIAL REQUISITION) FOR CABLE GLANDS AND JUNCTION BOX DEFINITIONS.									
6. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65.									

A	B	C	D	E	F	G	H	J	K																																																																																																																																																												
L41A/B/C																																																																																																																																																																					
1	<p>NOTE 4 1 OR 2 OR 3</p> <p>99'-0"</p> <p>7</p> <p>17</p>	<table border="1"> <thead> <tr> <th>ITEM</th><th>L41A QTY</th><th>L41B QTY</th><th>L41C QTY</th><th>UNIT</th><th colspan="3">BILL OF MATERIAL</th><th>TPENG ITEM CODE</th></tr> </thead> <tbody> <tr> <td>1</td><td>1</td><td>-</td><td>-</td><td>EA</td><td colspan="3">LED, CHAMP PFMVA FLOOD, YOKE MOUNT, 67W, 120-277VAC, 5000K, 3/4" HUB</td><td>16LTGF990089</td></tr> <tr> <td>2</td><td>-</td><td>1</td><td>-</td><td>EA</td><td colspan="3">LED, CHAMP PFMVA FLOOD, YOKE MOUNT, 82W, 120-277VAC, 5000K, 3/4" HUB</td><td>16LTGF990090</td></tr> <tr> <td>3</td><td>-</td><td>-</td><td>1</td><td>EA</td><td colspan="3">LED, CHAMP PFMVA FLOOD, YOKE MOUNT, 93W, 120-277VAC, 5000K, 3/4" HUB</td><td>16LTGF990091</td></tr> <tr> <td>4</td><td>10</td><td>10</td><td>10</td><td>FT</td><td colspan="3">CONDUIT 1", RIGID GALVANIZED STEEL</td><td>16CONS050021</td></tr> <tr> <td>5</td><td>4</td><td>4</td><td>4</td><td>EA</td><td colspan="3">1" ADAPTOR, PVC TO RIGID</td><td>16CONF070389</td></tr> <tr> <td>6</td><td>*</td><td>*</td><td>*</td><td>FT</td><td colspan="3">CONDUIT 1", PVC, SCHEDULE 40</td><td>16CONS070013</td></tr> <tr> <td>7</td><td>1</td><td>1</td><td>1</td><td>EA</td><td colspan="3">METALLIC MAST 100 FEET</td><td>16LTGP990132</td></tr> <tr> <td>8</td><td>1</td><td>1</td><td>1</td><td>EA</td><td colspan="3">TENON TOPPER, POLE SET SCREWS AND MOUNTING HARDWARE, FLOODLIGHT</td><td>16LTGB990008</td></tr> <tr> <td>9</td><td>3</td><td>3</td><td>3</td><td>EA</td><td colspan="3">BUSHING, GROUNDING 1", INSULATED THROAT, GROUND WIRE RANGE #4 - #14 AWG</td><td>16CONF990046</td></tr> <tr> <td>10</td><td>*</td><td>*</td><td>*</td><td>FT</td><td colspan="3">DIN RAIL PERFORATED-NS, 1,4"X06"</td><td>16SPTS100016</td></tr> <tr> <td>11</td><td>1</td><td>1</td><td>1</td><td>EA</td><td colspan="3">FEED-THROUGH TERMINAL BLOCK-ST6</td><td>16HWRX260171</td></tr> <tr> <td>12</td><td>2</td><td>2</td><td>2</td><td>EA</td><td colspan="3">END CLAMP, CLIPFIX 35</td><td>16HWRX260173</td></tr> <tr> <td>13</td><td>*</td><td>*</td><td>*</td><td>EA</td><td colspan="3">PLUG IN BRIDGE, FBS, 2-8, TYPE JUMPER</td><td>16HWRX260172</td></tr> <tr> <td>14</td><td>1</td><td>1</td><td>1</td><td>EA</td><td colspan="3">UNION, CONDUIT, 1", TYPE "UNY" MALE/FEMALE</td><td>16CONF990199</td></tr> <tr> <td>15</td><td>1</td><td>1</td><td>1</td><td>EA</td><td colspan="3">NIPPLE, CONDUIT, 1" X CLOSE</td><td>16CONF990213</td></tr> <tr> <td>16</td><td>1</td><td>1</td><td>1</td><td>EA</td><td colspan="3">COPPER BUSBAR, GROUNDING, 1/4" X 1.5" X 144"</td><td>16GRNF030147</td></tr> <tr> <td>17</td><td>1</td><td>1</td><td>1</td><td>EA</td><td colspan="3">JUNCTION BOX, FOR STREET LIGHT POLE, NEMA 4X, 12" X 12" X 6", INCLUDE BREATHERS AND DRAINS</td><td>16JBXX990029</td></tr> </tbody> </table>	ITEM	L41A QTY	L41B QTY	L41C QTY	UNIT	BILL OF MATERIAL			TPENG ITEM CODE	1	1	-	-	EA	LED, CHAMP PFMVA FLOOD, YOKE MOUNT, 67W, 120-277VAC, 5000K, 3/4" HUB			16LTGF990089	2	-	1	-	EA	LED, CHAMP PFMVA FLOOD, YOKE MOUNT, 82W, 120-277VAC, 5000K, 3/4" HUB			16LTGF990090	3	-	-	1	EA	LED, CHAMP PFMVA FLOOD, YOKE MOUNT, 93W, 120-277VAC, 5000K, 3/4" HUB			16LTGF990091	4	10	10	10	FT	CONDUIT 1", RIGID GALVANIZED STEEL			16CONS050021	5	4	4	4	EA	1" ADAPTOR, PVC TO RIGID			16CONF070389	6	*	*	*	FT	CONDUIT 1", PVC, SCHEDULE 40			16CONS070013	7	1	1	1	EA	METALLIC MAST 100 FEET			16LTGP990132	8	1	1	1	EA	TENON TOPPER, POLE SET SCREWS AND MOUNTING HARDWARE, FLOODLIGHT			16LTGB990008	9	3	3	3	EA	BUSHING, GROUNDING 1", INSULATED THROAT, GROUND WIRE RANGE #4 - #14 AWG			16CONF990046	10	*	*	*	FT	DIN RAIL PERFORATED-NS, 1,4"X06"			16SPTS100016	11	1	1	1	EA	FEED-THROUGH TERMINAL BLOCK-ST6			16HWRX260171	12	2	2	2	EA	END CLAMP, CLIPFIX 35			16HWRX260173	13	*	*	*	EA	PLUG IN BRIDGE, FBS, 2-8, TYPE JUMPER			16HWRX260172	14	1	1	1	EA	UNION, CONDUIT, 1", TYPE "UNY" MALE/FEMALE			16CONF990199	15	1	1	1	EA	NIPPLE, CONDUIT, 1" X CLOSE			16CONF990213	16	1	1	1	EA	COPPER BUSBAR, GROUNDING, 1/4" X 1.5" X 144"			16GRNF030147	17	1	1	1	EA	JUNCTION BOX, FOR STREET LIGHT POLE, NEMA 4X, 12" X 12" X 6", INCLUDE BREATHERS AND DRAINS			16JBXX990029	
ITEM	L41A QTY	L41B QTY	L41C QTY	UNIT	BILL OF MATERIAL			TPENG ITEM CODE																																																																																																																																																													
1	1	-	-	EA	LED, CHAMP PFMVA FLOOD, YOKE MOUNT, 67W, 120-277VAC, 5000K, 3/4" HUB			16LTGF990089																																																																																																																																																													
2	-	1	-	EA	LED, CHAMP PFMVA FLOOD, YOKE MOUNT, 82W, 120-277VAC, 5000K, 3/4" HUB			16LTGF990090																																																																																																																																																													
3	-	-	1	EA	LED, CHAMP PFMVA FLOOD, YOKE MOUNT, 93W, 120-277VAC, 5000K, 3/4" HUB			16LTGF990091																																																																																																																																																													
4	10	10	10	FT	CONDUIT 1", RIGID GALVANIZED STEEL			16CONS050021																																																																																																																																																													
5	4	4	4	EA	1" ADAPTOR, PVC TO RIGID			16CONF070389																																																																																																																																																													
6	*	*	*	FT	CONDUIT 1", PVC, SCHEDULE 40			16CONS070013																																																																																																																																																													
7	1	1	1	EA	METALLIC MAST 100 FEET			16LTGP990132																																																																																																																																																													
8	1	1	1	EA	TENON TOPPER, POLE SET SCREWS AND MOUNTING HARDWARE, FLOODLIGHT			16LTGB990008																																																																																																																																																													
9	3	3	3	EA	BUSHING, GROUNDING 1", INSULATED THROAT, GROUND WIRE RANGE #4 - #14 AWG			16CONF990046																																																																																																																																																													
10	*	*	*	FT	DIN RAIL PERFORATED-NS, 1,4"X06"			16SPTS100016																																																																																																																																																													
11	1	1	1	EA	FEED-THROUGH TERMINAL BLOCK-ST6			16HWRX260171																																																																																																																																																													
12	2	2	2	EA	END CLAMP, CLIPFIX 35			16HWRX260173																																																																																																																																																													
13	*	*	*	EA	PLUG IN BRIDGE, FBS, 2-8, TYPE JUMPER			16HWRX260172																																																																																																																																																													
14	1	1	1	EA	UNION, CONDUIT, 1", TYPE "UNY" MALE/FEMALE			16CONF990199																																																																																																																																																													
15	1	1	1	EA	NIPPLE, CONDUIT, 1" X CLOSE			16CONF990213																																																																																																																																																													
16	1	1	1	EA	COPPER BUSBAR, GROUNDING, 1/4" X 1.5" X 144"			16GRNF030147																																																																																																																																																													
17	1	1	1	EA	JUNCTION BOX, FOR STREET LIGHT POLE, NEMA 4X, 12" X 12" X 6", INCLUDE BREATHERS AND DRAINS			16JBXX990029																																																																																																																																																													
2																																																																																																																																																																					
3																																																																																																																																																																					
4	<p>*As required</p>	<p>FRONT VIEW</p> <p>DETAIL 1</p> <p>16</p> <p>11</p> <p>10</p> <p>12</p> <p>13</p> <p>17</p> <p>HUB 1" TO BE LOCATED BESIDE THE BOX</p> <p>GALVANIZED STEEL WITH 'L' FORM</p> <p>DETAIL 3</p>	<p>POLE</p> <p>JUNCTION BOX</p> <p>4</p> <p>15</p> <p>14</p> <p>16</p> <p>CABLE GLAND</p> <p>TC-ER CABLE</p> <p>SIDE VIEW</p> <p>DETAIL 2</p>	<table border="1"> <tr> <td>A</td><td>ISSUED FOR REVIEW</td><td>10-02-2023</td><td>FV</td><td>LNW</td><td>VV</td><td>VVA</td></tr> <tr> <td>REV</td><td>REVISION DESCRIPTION</td><td>DATE</td><td>DRAWN</td><td>CHECKED</td><td>APPROVED</td><td>PROJ APR</td></tr> </table> <p>CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS THE PROPERTY OF THE COMPANY OWNED BY THE ENTITIES AND IS CONFIDENTIAL. USE OF THE INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES INC. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.</p> <p>CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA</p> <p>TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS FLOODLIGHT MOUNTED ON HIGH MAST TYPE FOR NON-HAZARDOUS AREA CLASSIFICATION "L41"</p> <p>TEN TECHNIP ENERGIES COMMONWEALTH LNG</p>	A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA	REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR																																																																																																																																																			
A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA																																																																																																																																																															
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR																																																																																																																																																															
5																																																																																																																																																																					
6	<p>NOTES:</p> <ol style="list-style-type: none"> CONCRETE FOUNDATION AND ANCHOR BOLT SIZE AND PATTERN SHALL BE SHOWN ON CIVIL STRUCTURAL DRAWINGS BASED ON POLE VENDOR DATA OBTAINED FROM ELECTRICA GROUP. FOR LIGHTING POLE GROUNDING SEE GROUNDING DETAIL. TC-ER CABLE WILL CONNECT TO FIXTURE AND BE SPLICED AT HAND HOLE OR POLE. FINAL AIMING ANGLE SHALL BE DETERMINED AT SITE. SEE PLAN DRAWING FOR MOUNTING HEIGHT/ELEVATION. SEE BULK MATERIAL MR (MATERIAL REQUISITION) FOR CABLE GLANDS AND JUNCTION BOX DEFINITIONS. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65. 																																																																																																																																																																				

A L42A/B/C



A

B

C

D

E

F

G

H

J

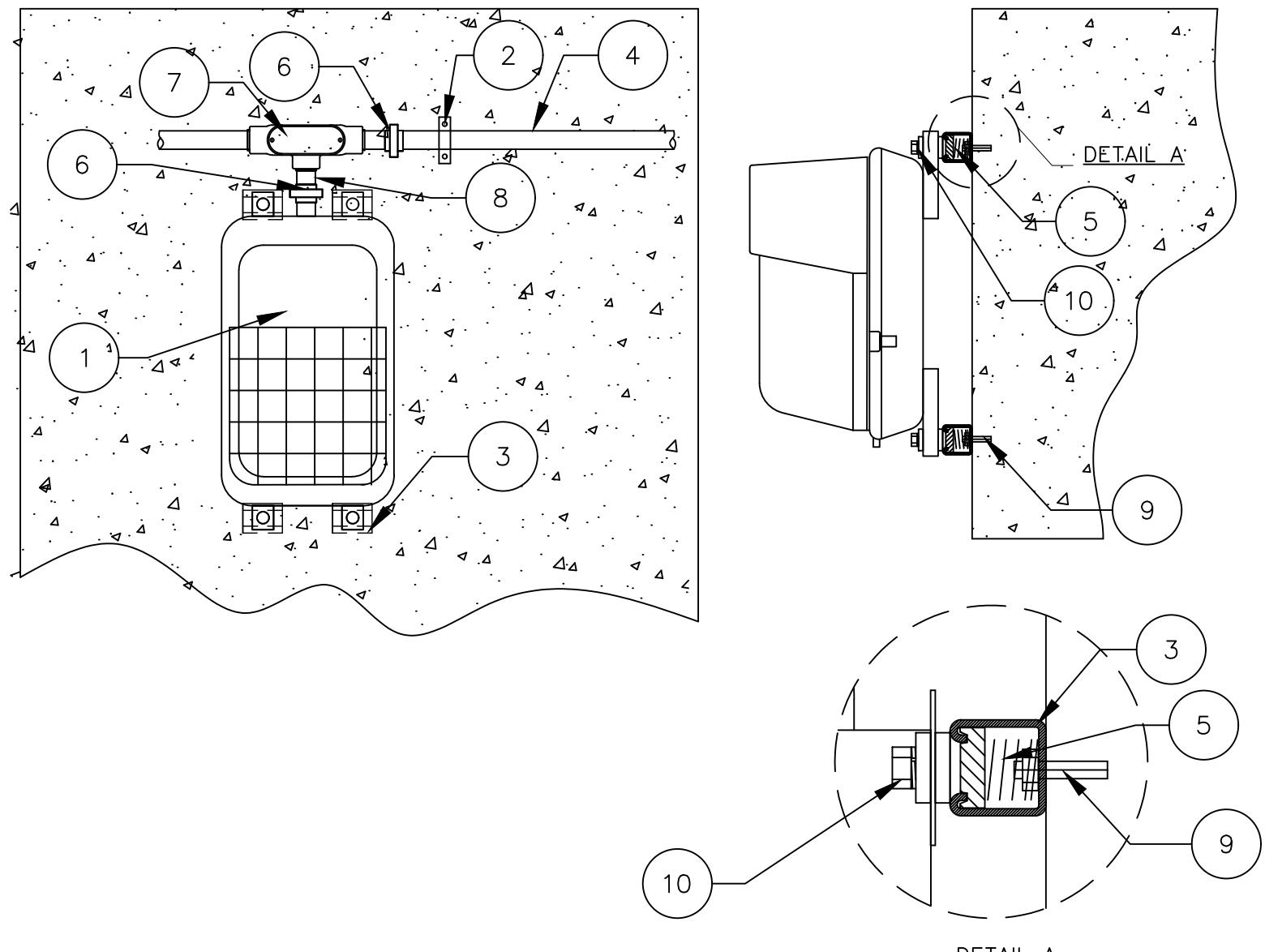
K

L43

ITEM	L43 QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE
1	1	EA	LIGHT FIXTURE, SAFESITE 180 DEG LED WALL MOUNT, GRAY, 6700 LUMENS 52 WATTS, 100-277 VAC, COOL WHITE 5000K	16LTGW990124
2	1	EA	U-BOLT, 3/8" X 3/4"X 1 1/2" PIPE, 316 STAINLESS STEEL	16HWRX260167
3	1	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED	16STUS060064
4	10	FT	CONDUIT 3/4", RIGID GALVANIZED STEEL	16CONS050020
5	1	EA	SPRING NUT 3/8-16 316 SS	16HWRX260004
6	2	EA	UNION, CONDUIT, 3/4", TYPE "UNY" MALE/FEMALE	16CONF990203
7	1	EA	FITTING, CONDUIT BODY 3/4", TYPE "T", FORM 8, IRON ALLOY WITH COVER AND GASKET	16CONF150181
8	1	EA	NIPPLE, CONDUIT, 3/4" X CLOSE	16CONF990216
9	1	EA	EXPANSION ANCHOR, 3/8" x 1-1/2", 316 STAINLESS STEEL, WITH FLAT WASHER AND NUT	16HWRX260169
10	1	EA	MACHINE BOLT 3/8" x 1-1/2" HEX HEAD NC THREADS 316 STAINLESS STEEL	16HWRX260135

NOTES:

1. FOR MOUNTING HEIGHT SEE PLAN DWG. 078051C-1000-DW-1632.
2. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65.



A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS CONFIDENTIAL AND RESTRICTED INFORMATION OWNED BY THE COMPANY AND/OR ITS AFFILIATES AND/OR ITS CLIENT. USE OF THE INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES INC. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS WALL PACK L. FIXTURE MOUNTED ON CONCRETE FOR NON-HAZARDOUS AREA CLASSIFICATION "L43"						
TEN TECHNIP ENERGIES		COMMONWEALTH LNG				
SCALE	CLIENT NUMBER	DRAWN BY				
		FV				
PROJECT NUMBER	TECHNIP ENERGIES NUMBER	REVISION				
078051C	078051C-000-STD-1683-0001-47	A				

A

B

C

D

E

F

G

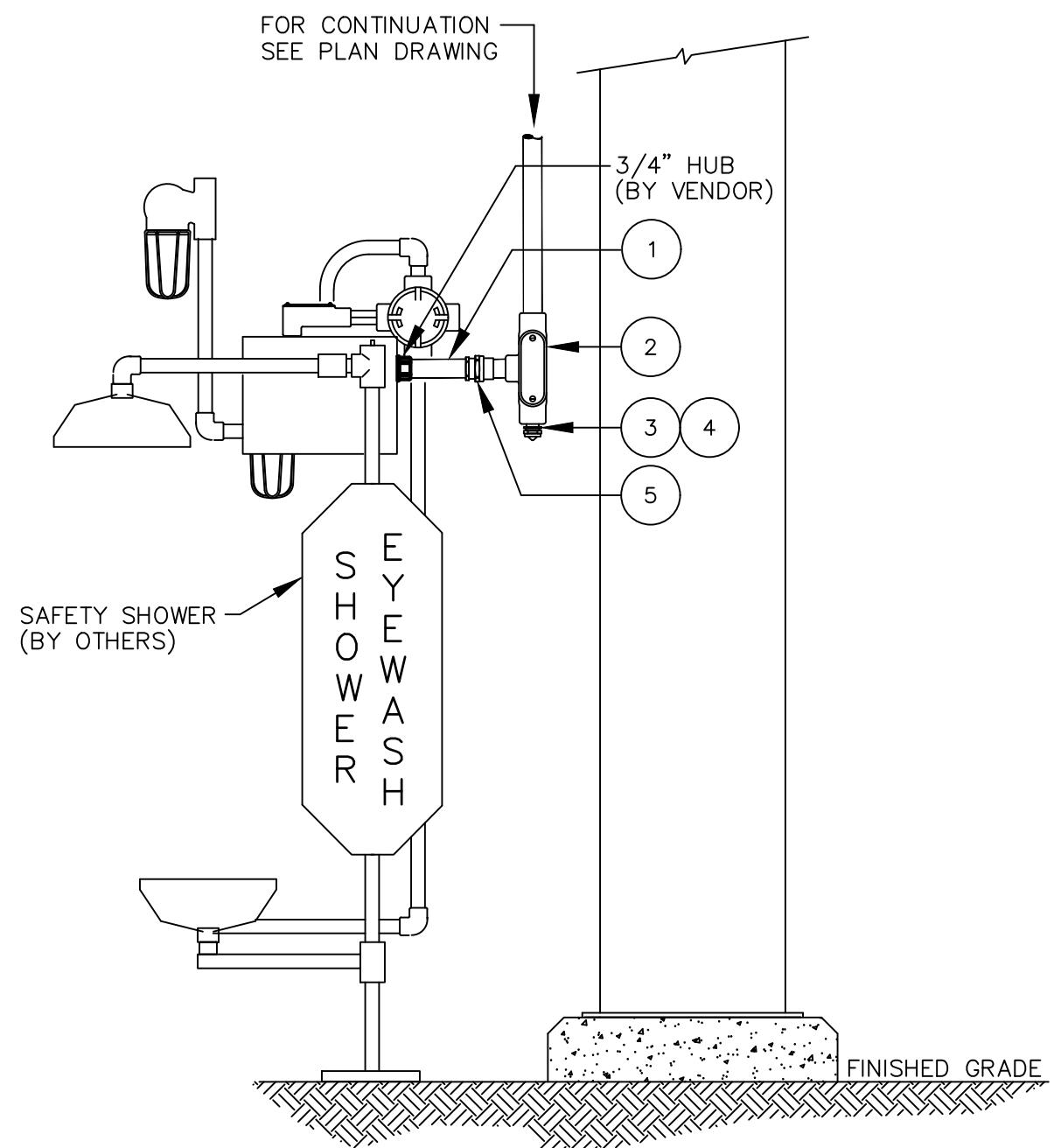
H

J

K

L44

ITEM	L44 QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE
1	5	FT	CONDUIT 3/4", RIGID GALVANIZED STEEL	16CONS050020
2	1	EA	FITTING, CONDUIT BODY 3/4", TYPE "T", FORM 8, IRON ALLOY WITH COVER AND GASKET	16CONF150181
3	1	EA	BREATHER, DRAIN, COMBINATION, 1/2"	16DRNB080001
4	1	EA	REDUCER, CONDUIT, 3/4" X 1/2"	16CONF140152
5	1	EA	UNION, CONDUIT, 3/4", TYPE "UNY" MALE/FEMALE	16CONF990203



A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS CONFIDENTIAL AND RESTRICTED INFORMATION OWNED BY THE COMPANY AND/OR ITS AFFILIATES AND/OR ITS CLIENT. USE OF THIS INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES N.V. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS SAFETY SHOWER INSTALLATION DETAIL "L44"						
 						
SCALE	CLIENT NUMBER	DRAWN BY				
		FV				
PROJECT NUMBER	TECHNIP ENERGIES NUMBER	REVISION				
078051C	078051C-000-STD-1683-0001-48	A				

A

B

C

D

E

F

G

H

I

J

K

L45

ITEM

L45
QTY

UNIT

BILL OF MATERIAL

TPENG ITEM CODE

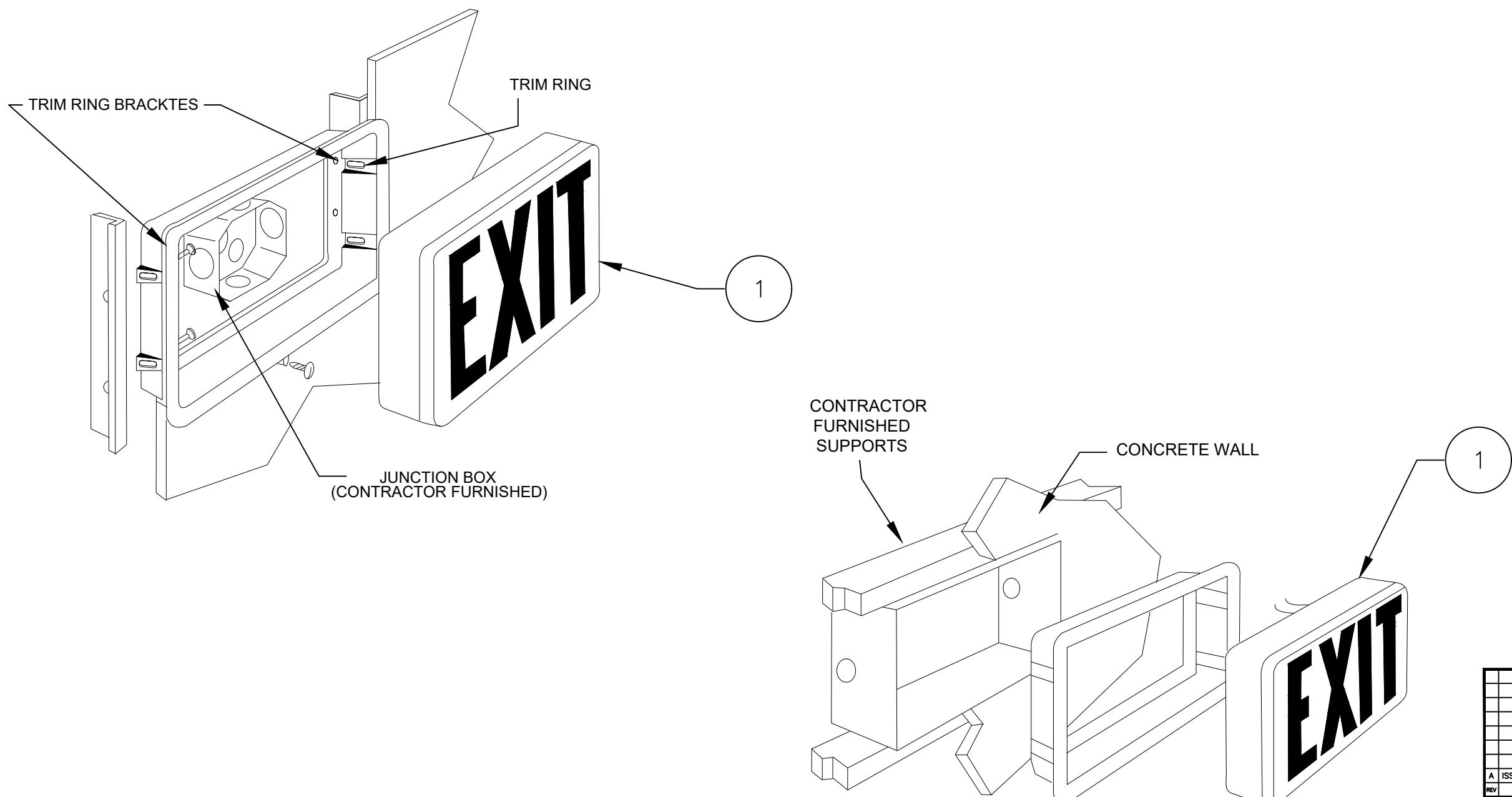
1

1

EA

EXIT LIGHT LE-LRE (SEE FIXTURE SCHEDULE ON SHEET 65.)

16LTGP990102



A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VW	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
<small>CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. THIS DOCUMENT IS EXCLUSIVELY CONFIDENTIAL AND IS NOT TO BE COPIED, USED, DISCLOSED, OR OTHERWISE MADE AVAILABLE TO ANY PERSON OTHER THAN THE CONTRACTOR, TECHNIP ENERGIES N.V. AND ITS AFFILIATES. TECHNIP ENERGIES N.V. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.</small>						
<small>CLIENT</small>						
<small>COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA</small>						
<small>TITLE</small>						
<small>ELECTRICAL LIGHTING INSTALLATION DETAILS LED EXIT LIGHTING FLUSH MOUNTED FOR NON-HAZARDOUS AREA CLASSIFICATION "L45"</small>						
<small>SCALE</small>						
<small>CLIENT NUMBER</small>						
<small>FV</small>						
<small>PROJECT NUMBER</small>						
<small>TECHNIP ENERGIES NUMBER</small>						
<small>REVISION</small>						
<small>078051C</small>						
<small>078051C-000-STD-1683-0001-49</small>						
<small>A</small>						

A

B

C

D

E

F

G

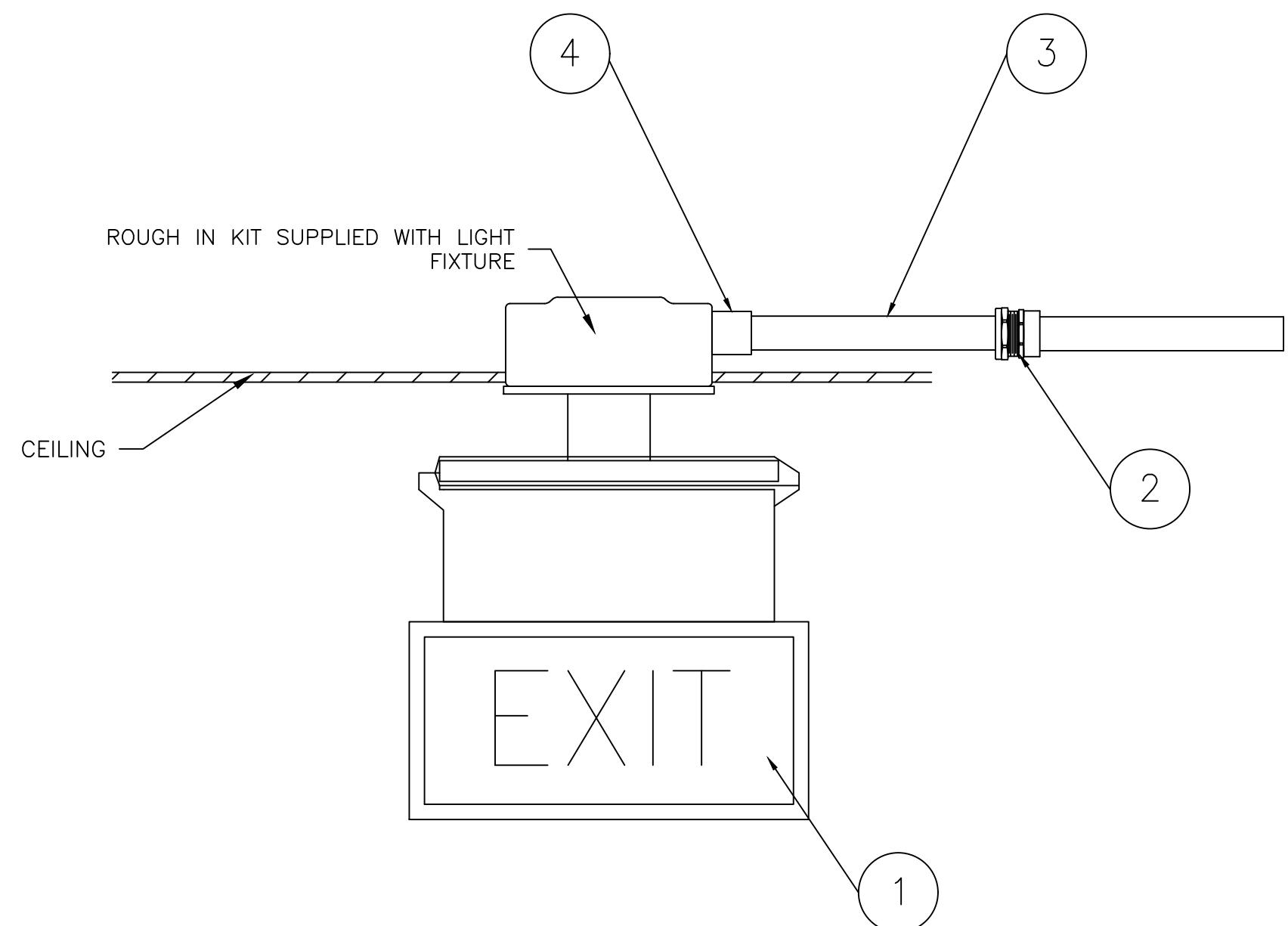
H

J

K

L46

				BILL OF MATERIAL	TPENG ITEM CODE
ITEM	L46 QTY	UNIT			
1	1	EA	EXIT LIGHT LE-LRE (SEE FIXTURE SCHEDULE ON SHEET 65.)		16LTGP990102
2	1	EA	UNION, CONDUIT, 3/4", TYPE "UNY" MALE/FEMALE		16CONF990203
3	3	FT	CONDUIT 3/4", RIGID GALVANIZED STEEL		16CONS050020
4	1	EA	REDUCER, CONDUIT, 3/4" X 1/2"		16CONF140152



A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VW	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
<small>CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS EXCLUDED FROM CONFIDENTIALITY AND PROPRIETARY INFORMATION BY THE CONTRACT. TECHNIP ENERGY AND/OR ITS CLIENTS USE OF THIS INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES N.V. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.</small>						
<small>CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA</small>						
<small>TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS LED EXIT LIGHTING CEILING MOUNTED FOR NON-HAZARDOUS AREA CLASSIFICATION "L46"</small>						
<small>SCALE</small>						
<small>CLIENT NUMBER</small>						
<small>FV</small>						
<small>PROJECT NUMBER</small>						
<small>TECHNIP ENERGIES NUMBER</small>						
<small>REVISION</small>						
<small>078051C</small>						
<small>078051C-000-STD-1683-0001-50</small>						
<small>A</small>						

A	B	C	D	E	F	G	H	J	K																																																																																																																																																																																																																	
L47A/B/C/D/E/F/G/H/I		BILL OF MATERIAL																																																																																																																																																																																																																								
TPENG ITEM CODE																																																																																																																																																																																																																										
1	<table border="1"> <thead> <tr> <th>ITEM</th><th>L47A QTY</th><th>L47B QTY</th><th>L47C QTY</th><th>L47D QTY</th><th>L47E QTY</th><th>L47F QTY</th><th>L47G QTY</th><th>L47H QTY</th><th>L47I QTY</th><th>UNIT</th><th></th><th>TPENG ITEM CODE</th></tr> </thead> <tbody> <tr><td>1</td><td>1</td><td>-</td><td>-</td><td>1</td><td>-</td><td>-</td><td>1</td><td>-</td><td>-</td><td>EA</td><td>LED LINEAR ,BRACKET MOUNT ,25 DEG. ANGLE, 30W,100-240VAC, 5700K</td><td>16LTGB990114</td></tr> <tr><td>2</td><td>-</td><td>1</td><td>-</td><td>-</td><td>1</td><td>-</td><td>-</td><td>1</td><td>-</td><td>EA</td><td>LED LINEAR , BRACKET MOUNT ,25 DEG. ANGLE, 40W,100-240VAC, 5700K</td><td>16LTGB990115</td></tr> <tr><td>3</td><td>-</td><td>-</td><td>1</td><td>-</td><td>-</td><td>1</td><td>-</td><td>-</td><td>1</td><td>EA</td><td>LED LINEAR , BRACKET MOUNT ,25 DEG. ANGLE, 60W,100-240VAC, 5700K</td><td>16LTGB990116</td></tr> <tr><td>4</td><td>4</td><td>4</td><td>4</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>EA</td><td>STUD, THREADED, 3/8", X-BT-MR W10/15 SN 8, WITH NUT, 316 STAINLESS STEEL</td><td>16HWRX260009</td></tr> <tr><td>5</td><td>4</td><td>4</td><td>4</td><td>-</td><td>-</td><td>-</td><td>4</td><td>4</td><td>4</td><td>FT</td><td>STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED</td><td>16STUS060064</td></tr> <tr><td>6</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>4</td><td>EA</td><td>CONDUIT STRAP, 3/4" SS WITH SS6 HARDWARE, USE WITH 1 5/8" STRUT CHANNEL</td><td>16STUA260014</td></tr> <tr><td>7</td><td>5</td><td>5</td><td>5</td><td>5</td><td>5</td><td>5</td><td>5</td><td>5</td><td>5</td><td>FT</td><td>CONDUIT 3/4", RIGID GALVANIZED STEEL</td><td>16CONSO50020</td></tr> <tr><td>8</td><td>-</td><td>-</td><td>-</td><td>4</td><td>4</td><td>4</td><td>-</td><td>-</td><td>-</td><td>FT</td><td>STRUT, HS-1-5/8" X 1-5/8", 12 GAUGE, HDG</td><td>16STUS060056</td></tr> <tr><td>9</td><td>-</td><td>-</td><td>-</td><td>4</td><td>4</td><td>4</td><td>-</td><td>-</td><td>-</td><td>EA</td><td>STUD, THREADED, 8MM, X-BT-GR M8/7 SN 8, W/O NUT, 316 STAINLESS STEEL</td><td>16HWRX260098</td></tr> <tr><td>10</td><td>-</td><td>-</td><td>-</td><td>4</td><td>4</td><td>4</td><td>-</td><td>-</td><td>-</td><td>EA</td><td>STAND-OFF ADAPTOR, HILTI, M8-MF 25, 1" LONG, WITH NUT, HDG</td><td>16HLTX990001</td></tr> <tr><td>11</td><td>-</td><td>-</td><td>-</td><td>4</td><td>4</td><td>4</td><td>-</td><td>-</td><td>-</td><td>EA</td><td>PLATE, MQZ-L9-F</td><td>16HLTX990003</td></tr> <tr><td>12</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>EA</td><td>FITTING, CONDUIT BODY 3/4", TYPE "T", FORM 8, IRON ALLOY WITH COVER AND GASKET</td><td>16CONF150181</td></tr> <tr><td>13</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>1</td><td>EA</td><td>UNION, CONDUIT, 3/4", TYPE "UNY" MALE/FEMALE</td><td>16CONF990203</td></tr> <tr><td>14</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>4</td><td>4</td><td>4</td><td>EA</td><td>EXPANSION ANCHOR, 3/8" x 1-1/2", 316 STAINLESS STEEL, WITH FLAT WASHER AND NUT</td><td>16HWRX260166</td></tr> <tr><td>15</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>2</td><td>EA</td><td>BUSHING, GROUNDING 3/4", INSULATED THROAT, GROUND WIRE RANGE #4-#14 AWG</td><td>16CONF990045</td></tr> </tbody> </table>										ITEM	L47A QTY	L47B QTY	L47C QTY	L47D QTY	L47E QTY	L47F QTY	L47G QTY	L47H QTY	L47I QTY	UNIT		TPENG ITEM CODE	1	1	-	-	1	-	-	1	-	-	EA	LED LINEAR ,BRACKET MOUNT ,25 DEG. ANGLE, 30W,100-240VAC, 5700K	16LTGB990114	2	-	1	-	-	1	-	-	1	-	EA	LED LINEAR , BRACKET MOUNT ,25 DEG. ANGLE, 40W,100-240VAC, 5700K	16LTGB990115	3	-	-	1	-	-	1	-	-	1	EA	LED LINEAR , BRACKET MOUNT ,25 DEG. ANGLE, 60W,100-240VAC, 5700K	16LTGB990116	4	4	4	4	-	-	-	-	-	-	EA	STUD, THREADED, 3/8", X-BT-MR W10/15 SN 8, WITH NUT, 316 STAINLESS STEEL	16HWRX260009	5	4	4	4	-	-	-	4	4	4	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED	16STUS060064	6	4	4	4	4	4	4	4	4	4	EA	CONDUIT STRAP, 3/4" SS WITH SS6 HARDWARE, USE WITH 1 5/8" STRUT CHANNEL	16STUA260014	7	5	5	5	5	5	5	5	5	5	FT	CONDUIT 3/4", RIGID GALVANIZED STEEL	16CONSO50020	8	-	-	-	4	4	4	-	-	-	FT	STRUT, HS-1-5/8" X 1-5/8", 12 GAUGE, HDG	16STUS060056	9	-	-	-	4	4	4	-	-	-	EA	STUD, THREADED, 8MM, X-BT-GR M8/7 SN 8, W/O NUT, 316 STAINLESS STEEL	16HWRX260098	10	-	-	-	4	4	4	-	-	-	EA	STAND-OFF ADAPTOR, HILTI, M8-MF 25, 1" LONG, WITH NUT, HDG	16HLTX990001	11	-	-	-	4	4	4	-	-	-	EA	PLATE, MQZ-L9-F	16HLTX990003	12	1	1	1	1	1	1	1	1	1	EA	FITTING, CONDUIT BODY 3/4", TYPE "T", FORM 8, IRON ALLOY WITH COVER AND GASKET	16CONF150181	13	1	1	1	1	1	1	1	1	1	EA	UNION, CONDUIT, 3/4", TYPE "UNY" MALE/FEMALE	16CONF990203	14	-	-	-	-	-	-	4	4	4	EA	EXPANSION ANCHOR, 3/8" x 1-1/2", 316 STAINLESS STEEL, WITH FLAT WASHER AND NUT	16HWRX260166	15	2	2	2	2	2	2	2	2	2	EA	BUSHING, GROUNDING 3/4", INSULATED THROAT, GROUND WIRE RANGE #4-#14 AWG	16CONF990045
ITEM	L47A QTY	L47B QTY	L47C QTY	L47D QTY	L47E QTY	L47F QTY	L47G QTY	L47H QTY	L47I QTY	UNIT		TPENG ITEM CODE																																																																																																																																																																																																														
1	1	-	-	1	-	-	1	-	-	EA	LED LINEAR ,BRACKET MOUNT ,25 DEG. ANGLE, 30W,100-240VAC, 5700K	16LTGB990114																																																																																																																																																																																																														
2	-	1	-	-	1	-	-	1	-	EA	LED LINEAR , BRACKET MOUNT ,25 DEG. ANGLE, 40W,100-240VAC, 5700K	16LTGB990115																																																																																																																																																																																																														
3	-	-	1	-	-	1	-	-	1	EA	LED LINEAR , BRACKET MOUNT ,25 DEG. ANGLE, 60W,100-240VAC, 5700K	16LTGB990116																																																																																																																																																																																																														
4	4	4	4	-	-	-	-	-	-	EA	STUD, THREADED, 3/8", X-BT-MR W10/15 SN 8, WITH NUT, 316 STAINLESS STEEL	16HWRX260009																																																																																																																																																																																																														
5	4	4	4	-	-	-	4	4	4	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED	16STUS060064																																																																																																																																																																																																														
6	4	4	4	4	4	4	4	4	4	EA	CONDUIT STRAP, 3/4" SS WITH SS6 HARDWARE, USE WITH 1 5/8" STRUT CHANNEL	16STUA260014																																																																																																																																																																																																														
7	5	5	5	5	5	5	5	5	5	FT	CONDUIT 3/4", RIGID GALVANIZED STEEL	16CONSO50020																																																																																																																																																																																																														
8	-	-	-	4	4	4	-	-	-	FT	STRUT, HS-1-5/8" X 1-5/8", 12 GAUGE, HDG	16STUS060056																																																																																																																																																																																																														
9	-	-	-	4	4	4	-	-	-	EA	STUD, THREADED, 8MM, X-BT-GR M8/7 SN 8, W/O NUT, 316 STAINLESS STEEL	16HWRX260098																																																																																																																																																																																																														
10	-	-	-	4	4	4	-	-	-	EA	STAND-OFF ADAPTOR, HILTI, M8-MF 25, 1" LONG, WITH NUT, HDG	16HLTX990001																																																																																																																																																																																																														
11	-	-	-	4	4	4	-	-	-	EA	PLATE, MQZ-L9-F	16HLTX990003																																																																																																																																																																																																														
12	1	1	1	1	1	1	1	1	1	EA	FITTING, CONDUIT BODY 3/4", TYPE "T", FORM 8, IRON ALLOY WITH COVER AND GASKET	16CONF150181																																																																																																																																																																																																														
13	1	1	1	1	1	1	1	1	1	EA	UNION, CONDUIT, 3/4", TYPE "UNY" MALE/FEMALE	16CONF990203																																																																																																																																																																																																														
14	-	-	-	-	-	-	4	4	4	EA	EXPANSION ANCHOR, 3/8" x 1-1/2", 316 STAINLESS STEEL, WITH FLAT WASHER AND NUT	16HWRX260166																																																																																																																																																																																																														
15	2	2	2	2	2	2	2	2	2	EA	BUSHING, GROUNDING 3/4", INSULATED THROAT, GROUND WIRE RANGE #4-#14 AWG	16CONF990045																																																																																																																																																																																																														
2	<p>DETAIL L47A/L47B/L47C FIXTURE MOUNTED ON STEEL</p>																																																																																																																																																																																																																									
3	<p>DETAIL L47D/L47E/L47F FIXTURE MOUNTED ON FIREPOOFED STEEL</p>																																																																																																																																																																																																																									
4	<p>DETAIL L47G/L47H/L47I FIXTURE MOUNTED ON CONCRETE OR COLUMN</p>																																																																																																																																																																																																																									
5	<p>DETAIL A</p>																																																																																																																																																																																																																									
6	<table border="1"> <tr><td>A</td><td>ISSUED FOR REVIEW</td><td>10-02-2023</td><td>FV</td><td>LNW</td><td>VV</td><td>VVA</td></tr> <tr><td>REV</td><td>REVISION DESCRIPTION</td><td>DATE</td><td>DRAWN</td><td>CHECKED</td><td>APPROVED</td><td>PROJ APR</td></tr> <tr><td colspan="7">CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS EXCLUDED FROM CONFIDENTIALITY INFORMATION BY THE CONTRACT. USE OF THE INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES NV, AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.</td></tr> <tr><td colspan="7">CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA</td></tr> <tr><td colspan="7">TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS LINEAR BRACKET MOUNTED TYPE ON STEEL STR./ CONC. FOR NON-HAZARDOUS AREA CLASSIFICATION "L47"</td></tr> <tr><td colspan="7">DRAWN BY</td></tr> <tr><td colspan="7">FV</td></tr> <tr><td colspan="7">TECHNIP ENERGIES NUMBER</td></tr> <tr><td colspan="7">REVISION</td></tr> <tr><td colspan="7">078051C 078051C-000-STD-1683-0001-51 A</td></tr> </table>									A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA	REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR	CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS EXCLUDED FROM CONFIDENTIALITY INFORMATION BY THE CONTRACT. USE OF THE INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES NV, AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.							CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA							TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS LINEAR BRACKET MOUNTED TYPE ON STEEL STR./ CONC. FOR NON-HAZARDOUS AREA CLASSIFICATION "L47"							DRAWN BY							FV							TECHNIP ENERGIES NUMBER							REVISION							078051C 078051C-000-STD-1683-0001-51 A																																																																																																																																																	
A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA																																																																																																																																																																																																																				
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR																																																																																																																																																																																																																				
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS EXCLUDED FROM CONFIDENTIALITY INFORMATION BY THE CONTRACT. USE OF THE INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES NV, AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.																																																																																																																																																																																																																										
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA																																																																																																																																																																																																																										
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS LINEAR BRACKET MOUNTED TYPE ON STEEL STR./ CONC. FOR NON-HAZARDOUS AREA CLASSIFICATION "L47"																																																																																																																																																																																																																										
DRAWN BY																																																																																																																																																																																																																										
FV																																																																																																																																																																																																																										
TECHNIP ENERGIES NUMBER																																																																																																																																																																																																																										
REVISION																																																																																																																																																																																																																										
078051C 078051C-000-STD-1683-0001-51 A																																																																																																																																																																																																																										

A

B

C

D

E

F

G

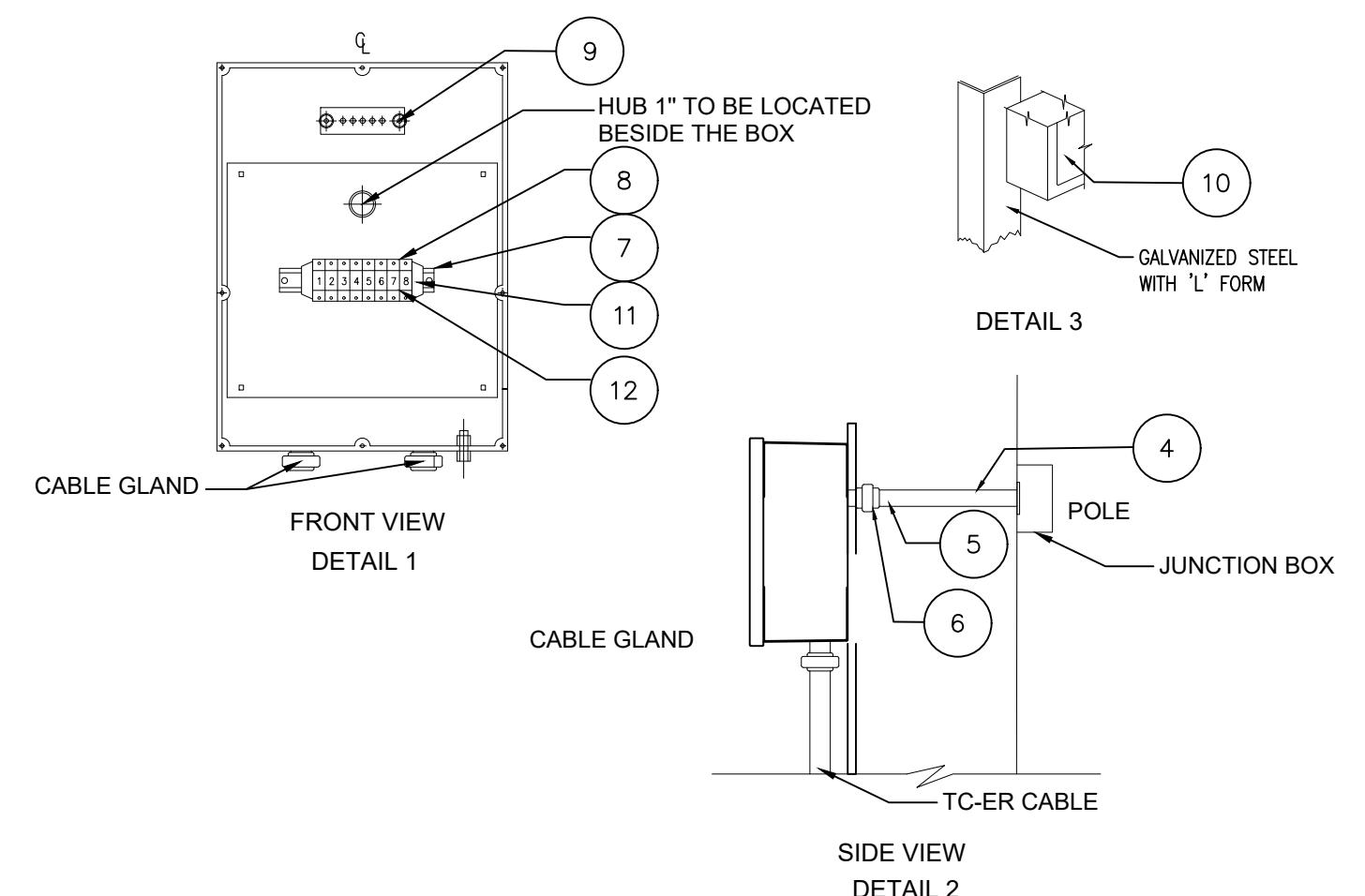
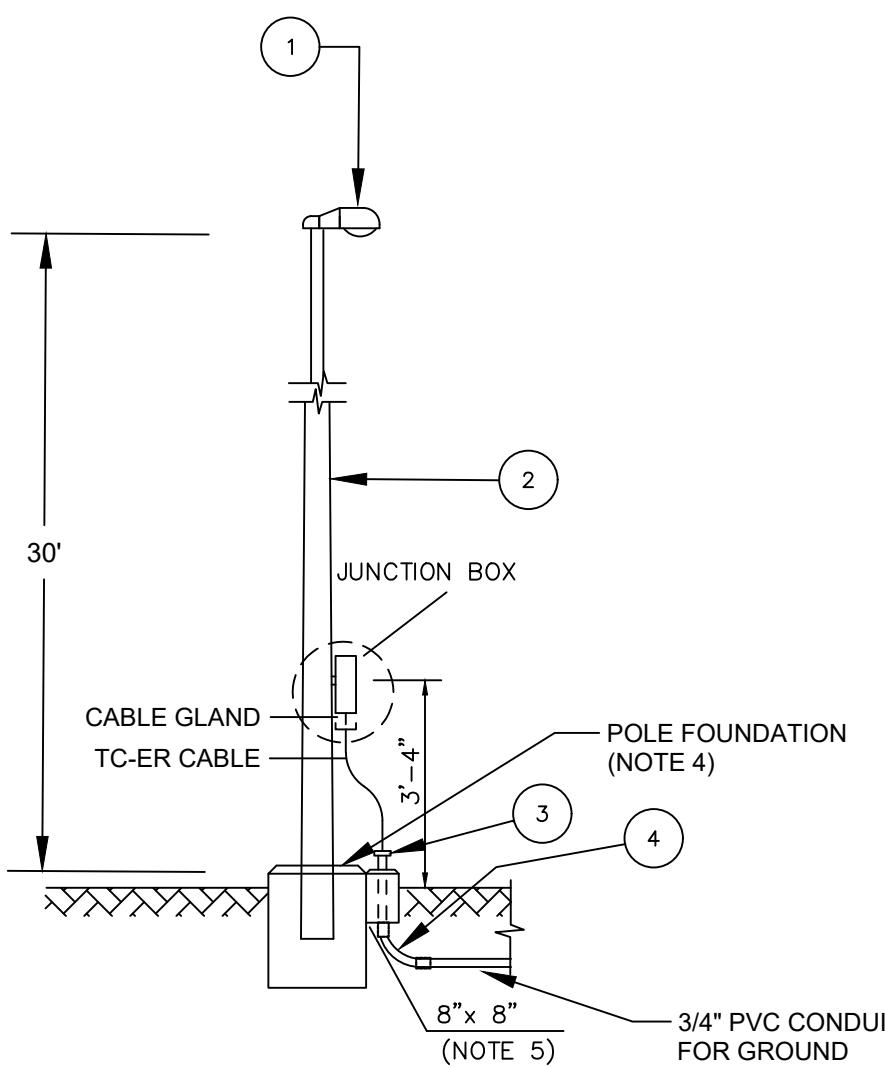
H

J

K

L48

- NOTES:**
1. FOR MOUNTING HEIGHT SEE PLAN DWG. 078051C-1000-DW-1632.
 2. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65.
 3. ALL FITTINGS SHALL BE 3/4", IF NOT OTHERWISE SPECIFIED
 4. CONCRETE FOUNDATION AND ANCHOR BOLT SIZE AND PATTERN SHALL BE SHOWN ON CIVIL STRUCTURAL DRAWINGS BASED ON POLE VENDOR DATA OBTAINED FROM ELECTRICA GROUP
 5. FOR LIGHTING POLE GROUNDING SEE GROUNDING DETAIL.
 6. SEE BULK MATERIAL MR (MATERIAL REQUISITION) FOR CABLE GLANDS AND JUNCTION BOX DEFINITIONS.



ITEM	L48 QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE
1	1	EA	LED, MONGOOSE HEAD, STREETLIGHT, WIDE, HOLOPHANE, MGLEDW P3 40K MVOLT FT UN GRSD	16LTGP990026
2	1	EA	POLE, ROUND TAPERED, ALUMINUM, 30FT, WITH FIXED TENON	16LGTP010024
3	1	EA	BUSHING, GROUNDING 1", INSULATED THROAT, GROUND WIRE RANGE #4 - #14 AWG	16CONF990046
4	*	FT	CONDUIT 1", RIGID GALVANIZED STEEL	16CONS070013
5	1	EA	NIPPLE, CONDUIT, 1" X CLOSE	16CONF990213
6	1	EA	UNION, CONDUIT, 1", TYPE "UNY" MALE/FEMALE	16CONF990199
7	*	FT	DIN RAIL PERFORATED-NS, 1,4"X06"	16SPTS100016
8	1	EA	FEED-THROUGHT TERMINAL BLOCK-ST6	16HWRX260171
9	1	EA	COPPER BUSBAR, GROUNDING, 1/4" X 1.5" X 144"	16GRNF030147
10	1	EA	JUNCTION BOX, FOR STREET LIGHT POLE, NEMA 4X, 12" X 12" X 6" ,INCLUDE BREATHERS AND DRAINS	16JBXX990029
11	*	EA	PLUG IN BRIDGE, FBS, 2-8, TYPE JUMPER	16HWRX260172
12	2	EA	END CLAMP, CLIPFIX 35	16HWRX260173

*As required

A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS PROVIDED CONFIDENTIAL INFORMATION FOR INTERNAL USE ONLY. IT MAY NOT BE COPIED, REPRODUCED, OR DISCLOSED, EXCEPT AS AUTHORIZED BY THE CONTRACT. TECHNIP ENERGIES INC. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS LED STREET LIGHTING ON POLE MOUNTED FOR NON-HAZARDOUS AREA CLASSIFICATION "L48"						
Scale _____ Client Number _____ Drawn by _____ FV						
Project Number _____ Technip Energies Number _____ Revision _____ 078051C 078051C-000-STD-1683-0001-52 A						



A

B

C

D

E

F

G

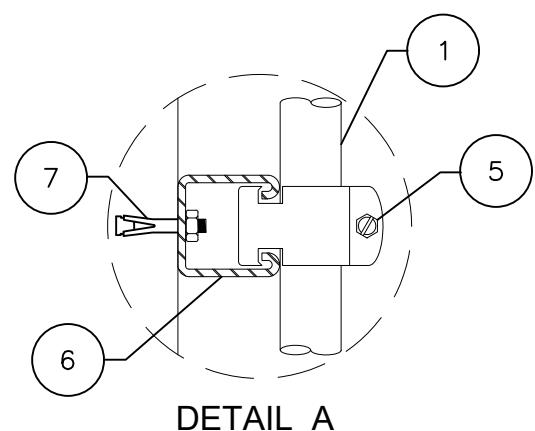
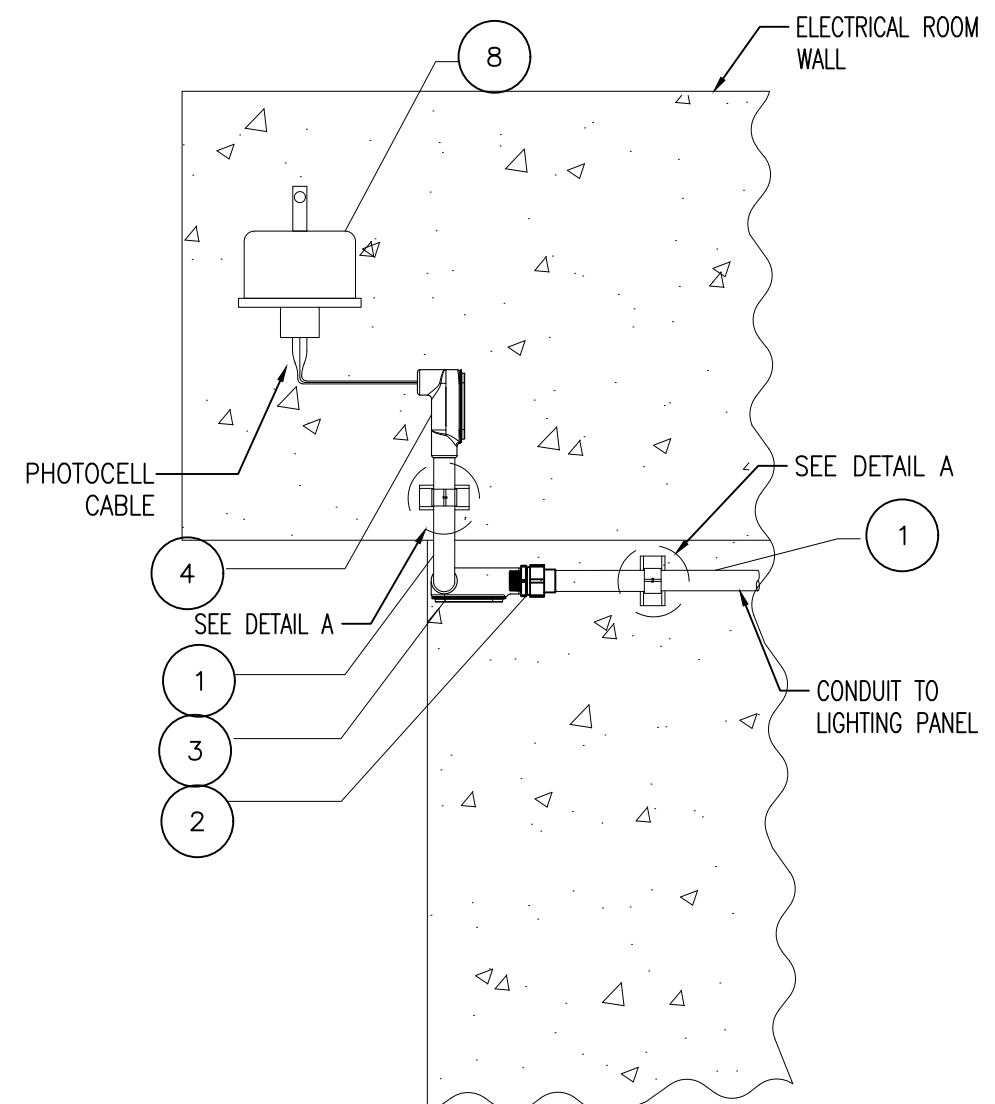
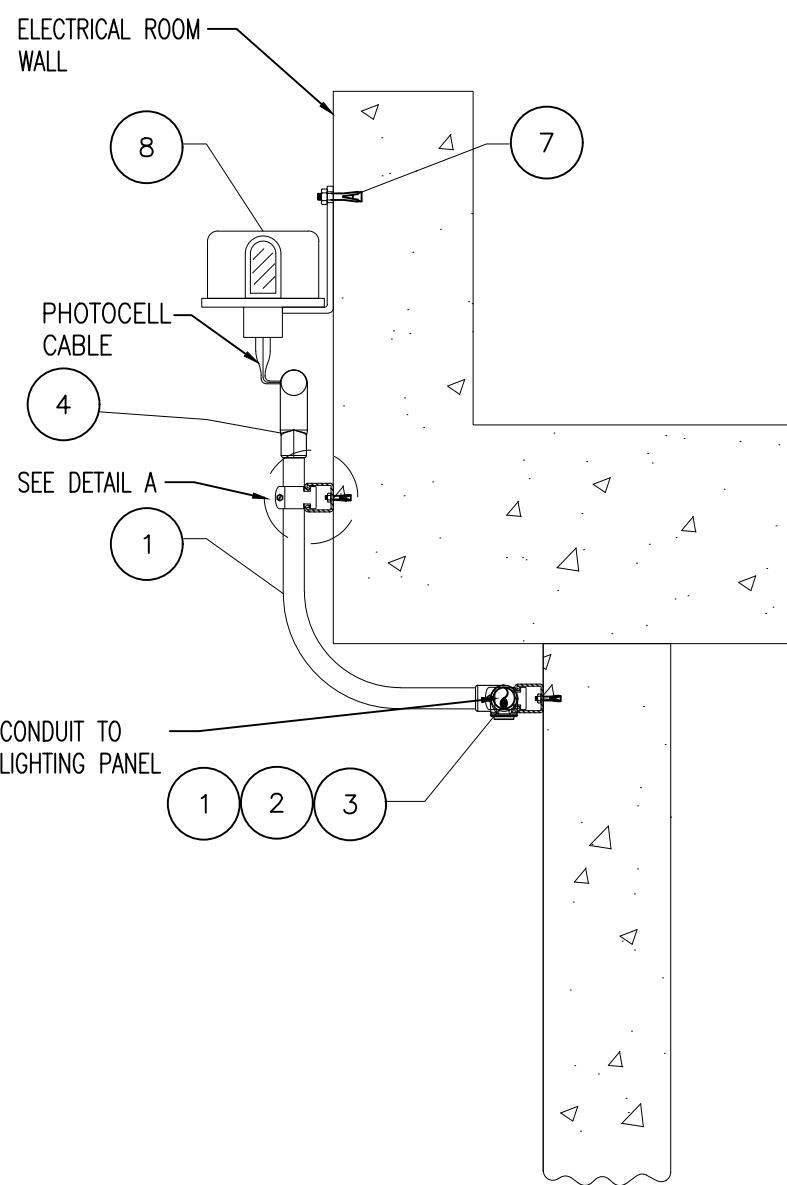
H

J

K

L49

ITEM	L49 QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE
1	*	FT	CONDUIT 3/4", RIGID GALVANIZED STEEL	16CONS050020
2	1	EA	UNION, CONDUIT, 3/4", TYPE "UNY" MALE/FEMALE	16CONF990203
3	4	EA	FITTING, CONDUIT BODY 3/4", TYPE "LL", FORM 8, IRON ALLOY	16CONF150109
4	4	EA	FITTING, CONDUIT BODY 3/4", TYPE "LB", FORM 8, IRON ALLOY WITH COVER AND GASKET	16CONF150101
5	1	EA	CLAMP, 3/4", FOR 3/4" CONDUIT, HDG	16CONA990403
6	1	EA	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED	16STUS060064
7	1	EA	EXPANSION ANCHOR, 3/8" x 1-1/2", 316 STAINLESS STEEL, WITH FLAT WASHER AND NUT	16HWRX260166
8	1	EA	PHOTOCELL (ON FIXTURE SCHEDULE ON SHEET 65)	16LTGO990107



A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VW	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. THIS INFORMATION IS PROPRIETARY AND CONFIDENTIAL. IT IS TO BE KEPT SECURE AND NOT DISCLOSED EXCEPT AS PROVIDED BY THE CONTRACT. TECHNIP ENERGY'S AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS PHOTOCELL SWITCH FOR NON-HAZARDOUS AREA CLASSIFICATION "L49"						
SCALE	CLIENT NUMBER	DRAWN BY				
		FV				
PROJECT NUMBER	TECHNIP ENERGIES NUMBER	REVISION				
078051C	078051C-000-STD-1683-0001-53	A				

A

B

C

D

E

F

G

H

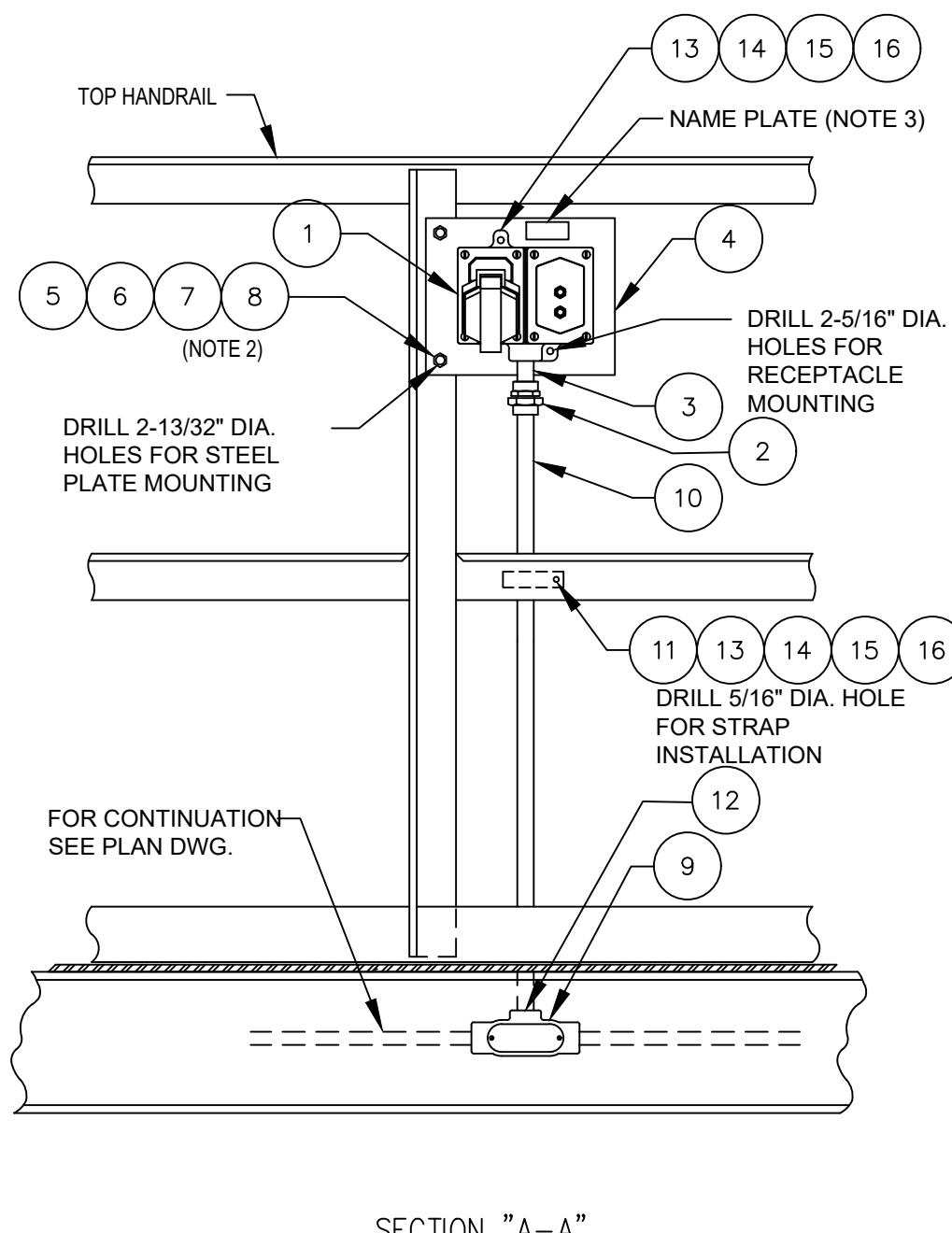
J

K

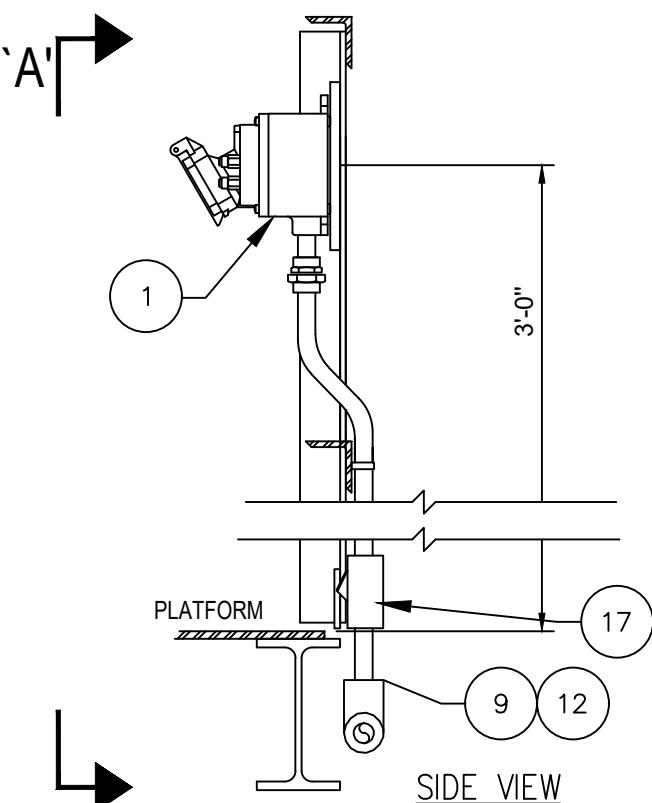
L50

NOTES:

1. ALL STEEL HARDWARE SHALL BE 316 STAINLESS STEEL UNLESS OTHERWISE SPECIFIED.
2. DRILL STRUCTURAL STEEL AS REQ'D. AND PAINT DRILLING W/ ZINC RICH EPOXY.
3. FOR NAME PLATE TAG SEE DETAIL A ON SHEET 27.



ITEM	L50 QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE
1	1	EA	RECEPTACLE GFCI KIT, FACTORY SEALED, 20A., 125VAC, 3/4"	16LTGR990106
2	1	EA	UNION, CONDUIT, 3/4", TYPE "UNY" MALE/FEMALE	16CONF990203
3	1	EA	NIPPLE, CONDUIT, 3/4" X CLOSE	16CONF990216
4	1	EA	STEEL PLATE, GALVANIZED, 1/4" X 8" X 10"	16SPTS060012
5	2	EA	MACHINE BOLT 3/8" X 1", HEX HEAD NC THREADS 316 STAINLESS STEEL	16HWRX260083
6	2	EA	WASHER, FLAT 3/8" 316 STAINLESS STEEL	16HWRX260061
7	2	EA	WASHER, LOCK 3/8" 316 STAINLESS STEEL	16HWRX260082
8	2	EA	NUT, HEX HEAD, 3/8" 316 STAINLESS STEEL	16HWRX260050
9	1	EA	FITTING, CONDUIT BODY 1 1/2", TYPE "T", FORM 8, IRON ALLOY WITH COVER AND GASKET	16CONF150185
10	4	FT	CONDUIT 3/4", RIGID GALVANIZED STEEL	16CONS050020
11	1	EA	ONE HOLE CONDUIT STRAP, 3/4" - 316 STAINLESS STEEL	16CONF260039
12	3	EA	REDUCER, CONDUIT, 1 1/2" X 3/4"	16CONF140138
13	3	EA	MACHINE BOLT 1/4" X 1", HEX HEAD NC THREADS 316 STAINLESS STEEL	16HWRX260043
14	3	EA	WASHER, FLAT 1/4" 316 STAINLESS STEEL	16HWRX260060
15	3	EA	WASHER, LOCK 1/4" 316 STAINLESS STEEL	16HWRX260069
16	3	EA	NUT, HEX HEAD, 1/4" 316 STAINLESS STEEL	16HWRX260049

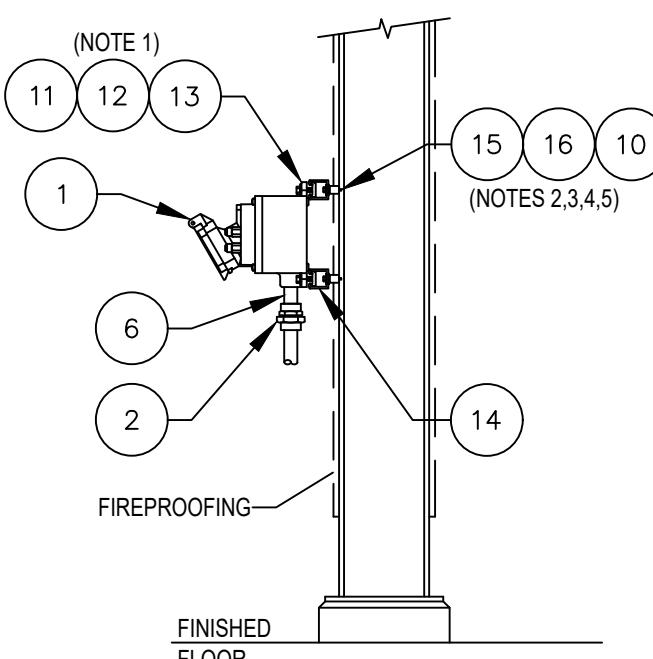
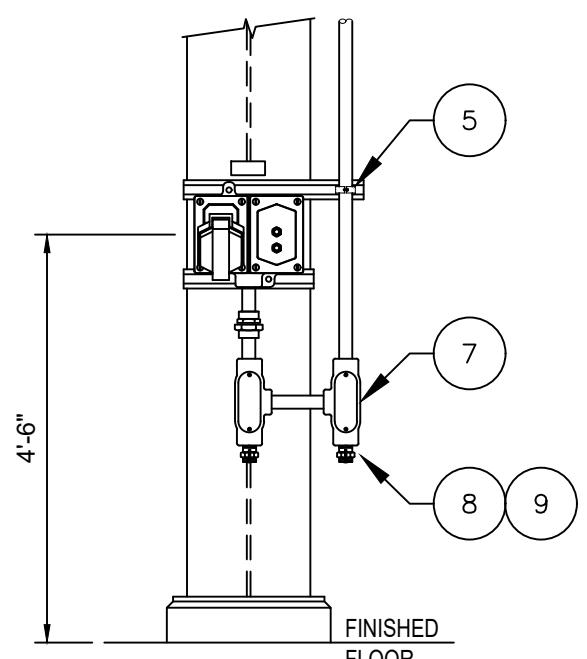
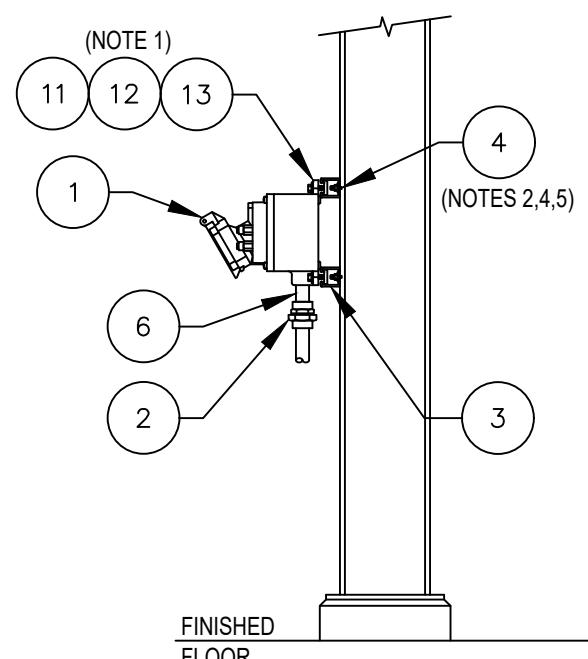
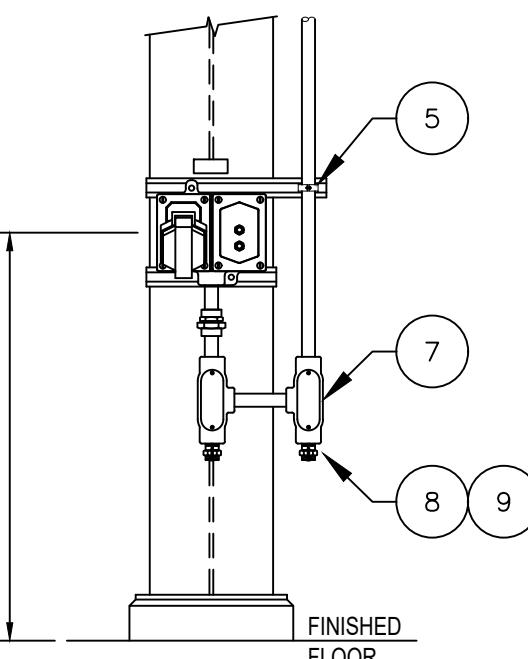


A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. THIS INFORMATION IS CONFIDENTIAL AND IS PROVIDED PURSUANT TO THE CONTRACT BETWEEN TECHNIP ENERGY AND/OR ITS CLIENT. USE OF THIS INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES N.V. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS GFCI RECEPTACLE HANDRAIL MOUNTED FOR NON-HAZARDOUS AREA CLASSIFICATION "L50"						
TEN TECHNIP ENERGIES						
COMMONWEALTH LNG						
SCALE	CLIENT NUMBER	DRAWN BY				
		FV				
PROJECT NUMBER	TECHNIP ENERGIES NUMBER	REVISION				
078051C	078051C-000-STD-1683-0001-54	A				

A | B | C | D | E | F | G | H | J | K

L51A/B

ITEM	L51A QTY	L51B QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE
1	1	1	EA	RECEPTACLE GFCI KIT, FACTORY SEALED, 20A, 125VAC, 3/4"	16LTGR990106
2	1	1	EA	UNION, CONDUIT, 3/4", TYPE "UNY" MALE/FEMALE	16CONF990203
3	4	-	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED	16STUS060064
4	4	-	EA	STUD, THREADED, 3/8", X-BT-MR W10/15 SN 8, WITH NUT, 316 STAINLESS STEEL	16HWRX260009
5	1	1	EA	CONDUIT STRAP, 3/4" SS WITH SS6 HARDWARE, USE WITH 1 5/8" STRUT CHANNEL	16STUA260014
6	1	1	EA	NIPPLE, CONDUIT, 3/4" X CLOSE	16CONF990216
7	2	2	EA	FITTING, CONDUIT BODY 3/4", TYPE "T", FORM 8, IRON ALLOY WITH COVER AND GASKET	16CONF150181
8	2	2	EA	REDUCER, CONDUIT, 3/4" X 1/2"	16CONF140152
9	2	2	EA	BREATHER, DRAIN, COMBINATION, 1/2"	16DRNB080001
10	-	4	EA	PLATE, MQZ-L9-F	16HLTX990003
11	2	2	EA	MACHINE BOLT 1/4" X 1 1/2", HEX HEAD NC THREADS 316 STAINLESS STEEL	16HWRX260044
12	2	2	EA	WASHER, LOCK 1/4" 316 STAINLESS STEEL	16HWRX260069
13	2	2	EA	SPRING NUT 1/4-20 316SS	16HWRX260006
14	-	4	FT	STRUT, HS-1-5/8" X 1-5/8", 12 GAUGE, HDG	16STUS060056
15	-	4	EA	STUD, THREADED, 8MM, X-BT-GR M8/7 SN 8, W/O NUT, 316 STAINLESS STEEL	16HWRX260098
16	-	4	EA	STAND-OFF ADAPTOR, HILTI, M8-MF 25, 1" LONG, WITH NUT, HDG	16HLTX990001



A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR

CONFIDENTIAL
INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. THIS INFORMATION IS CONFIDENTIAL AND IS PROVIDED TO THE RECIPIENT FOR INTERNAL USE ONLY AND/OR ITS CLIENT. USE OF THIS INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES INC. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.

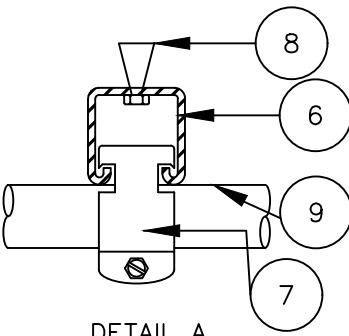
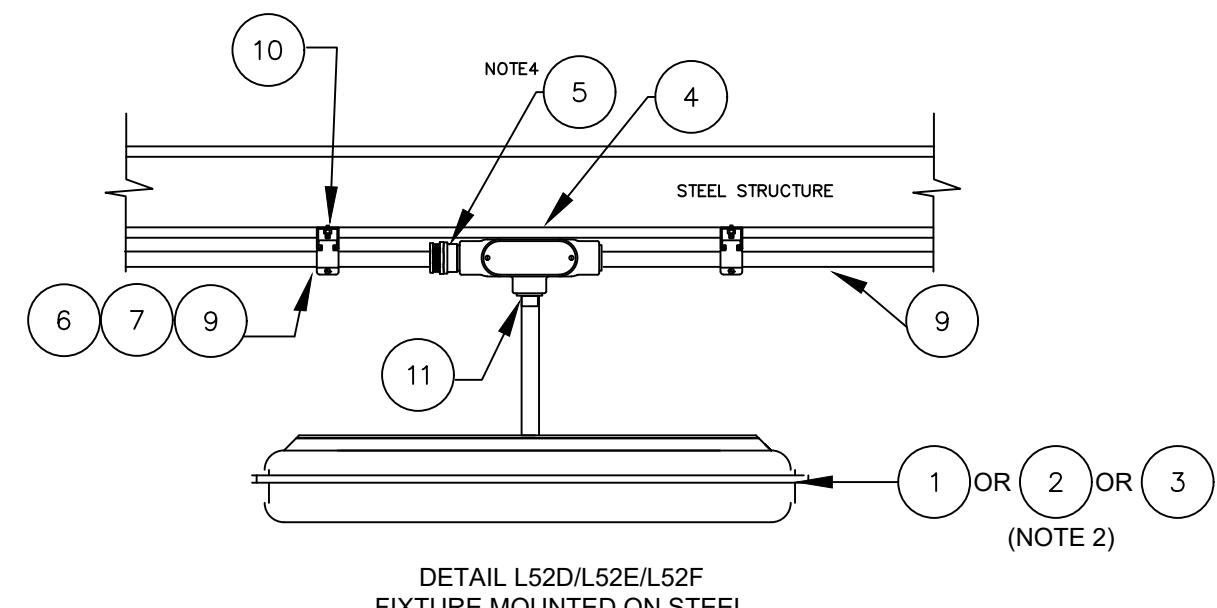
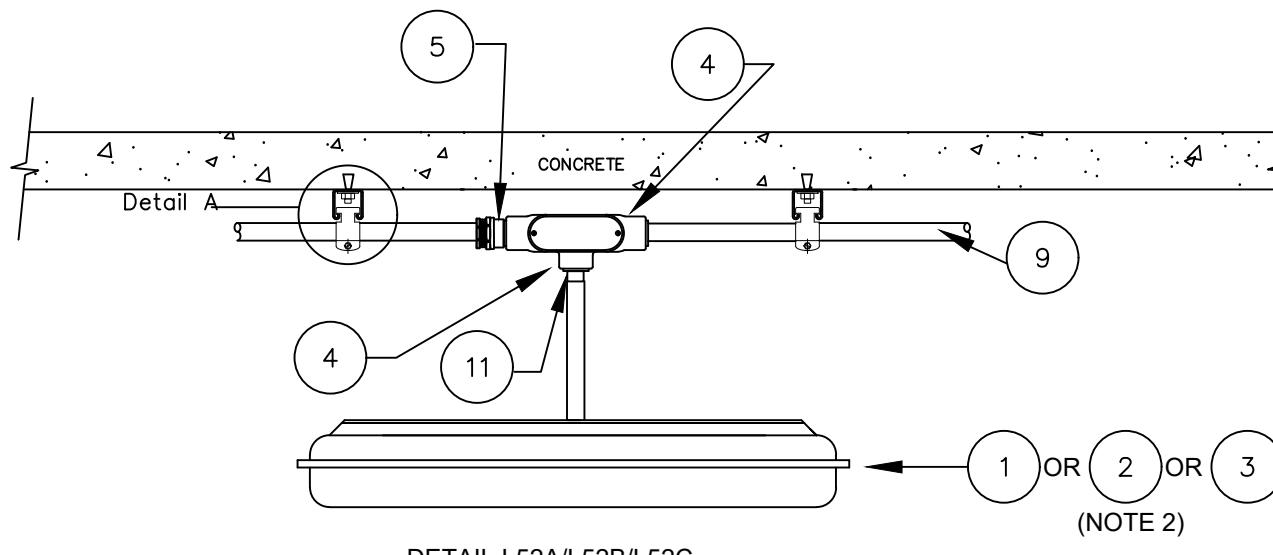
CLIENT
COMMONWEALTH LNG LLC
COMMONWEALTH LNG
CAMERON PARISH, LOUISIANA

TITLE
ELECTRICAL LIGHTING
INSTALLATION DETAILS GFCI RECEPTACLE ON STEEL COLUMN
FOR NON-HAZARDOUS AREA CLASSIFICATION "L51"



SCALE	CLIENT NUMBER	DRAWN BY
		FV
PROJECT NUMBER	TECHNIP ENERGIES NUMBER	REVISION
078051C	078051C-000-STD-1683-0001-55	A

A	B	C	D	E	F	G	H	J	K
L52A/B/C/D/E/F									TPENG ITEM CODE
1									1
NOTES:									
1. FOR MOUNTING HEIGHT SEE PLAN DWG. 078051C-1000-DW-1632.									
2. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65.									
3. FOR INSTALLATION OF HILTI STUD STRUCTURAL STEEL MUST BE AT LEAST 5/16" THICK. LOCATE STUD AT LEAST 1/4" MINIMUM FROM EDGE OF STEEL.									
4. FOR "T" FITTING SIZE REFER TO NOTE SHEET, CHART 1 AND CHART 2 ON SHEET 3.									
2									2
11	1	1	1	1	1	1	EA	NIPPLE, CONDUIT, 3/4" X CLOSE	16CONF990216



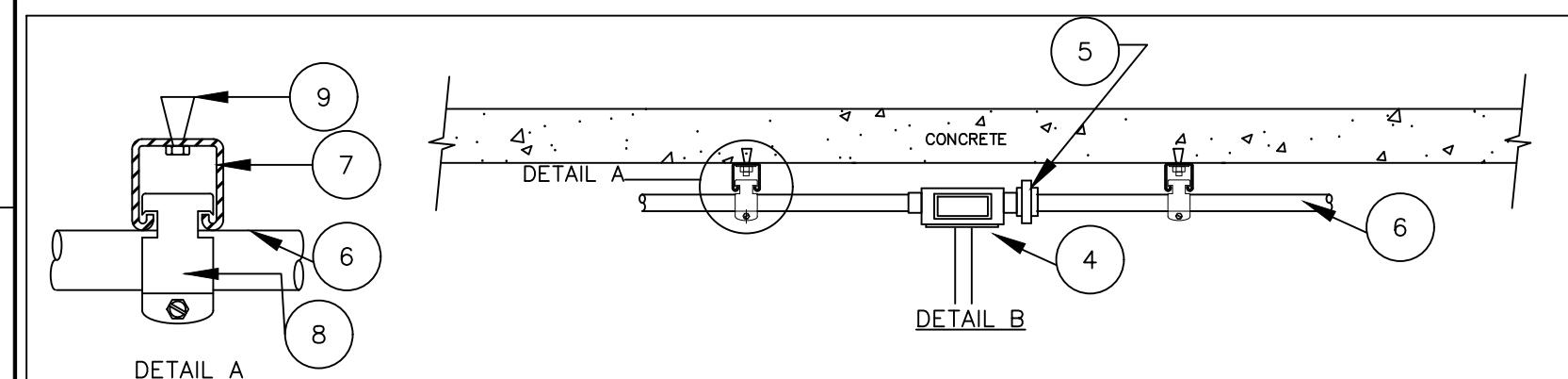
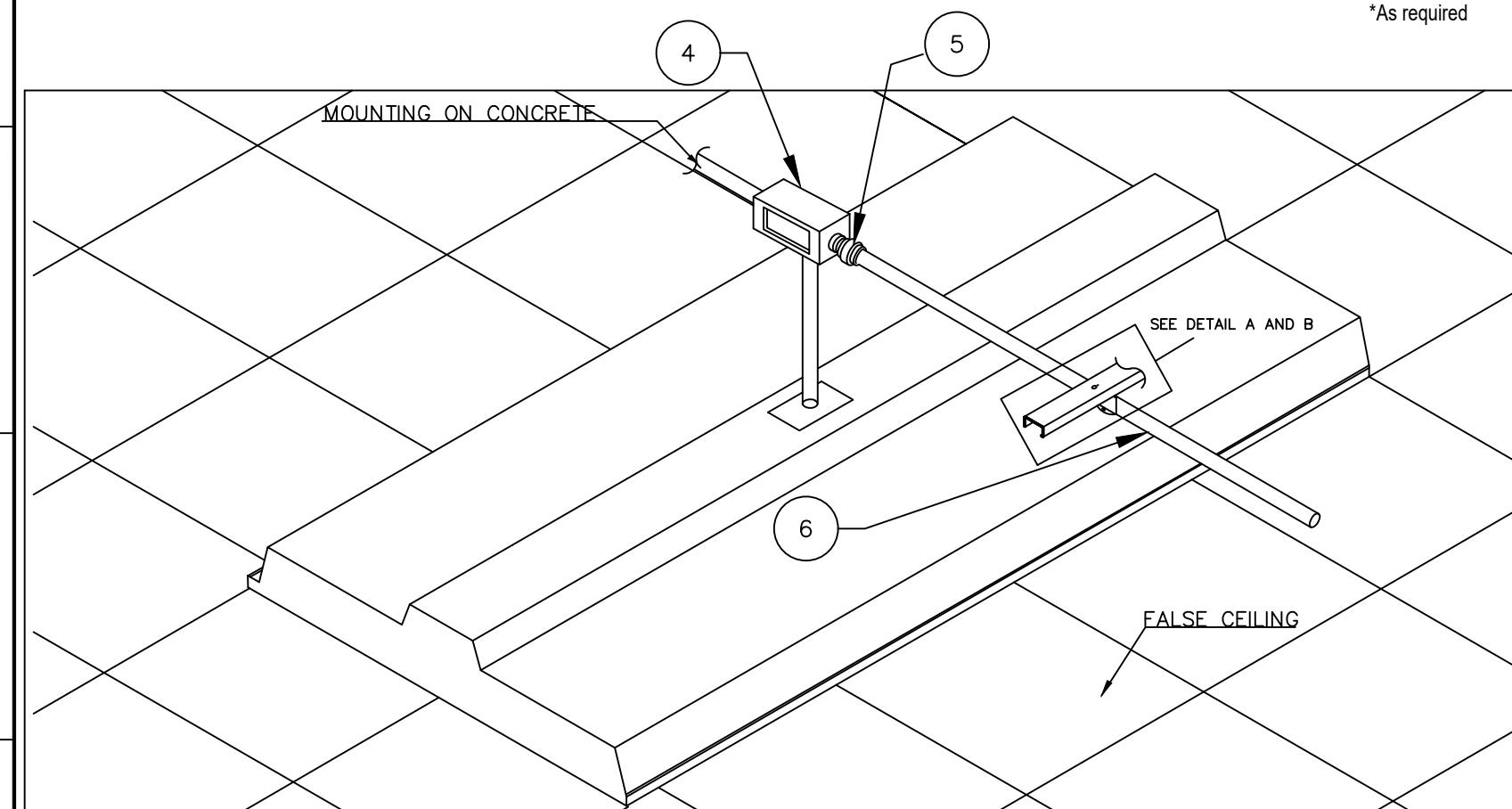
A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. THIS INFORMATION IS CONFIDENTIAL AND IS PROVIDED PURSUANT TO THE CONTRACTS BETWEEN THE COMPANY AND/OR ITS CLIENT. USE OF THIS INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES N.V. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS LINEAR PENDANT MOUNTED LFIXTURE ON STEEL STR./CONC. FOR NON-HAZARDOUS AREA CLASSIFICATION "L52"						
DRAWN BY						
SCALE	CLIENT NUMBER	FV				
PROJECT NUMBER	TECHNIP ENERGIES NUMBER	REVISION				
078051C	078051C-000-STD-1683-0001-56	A				

L53A/B/C

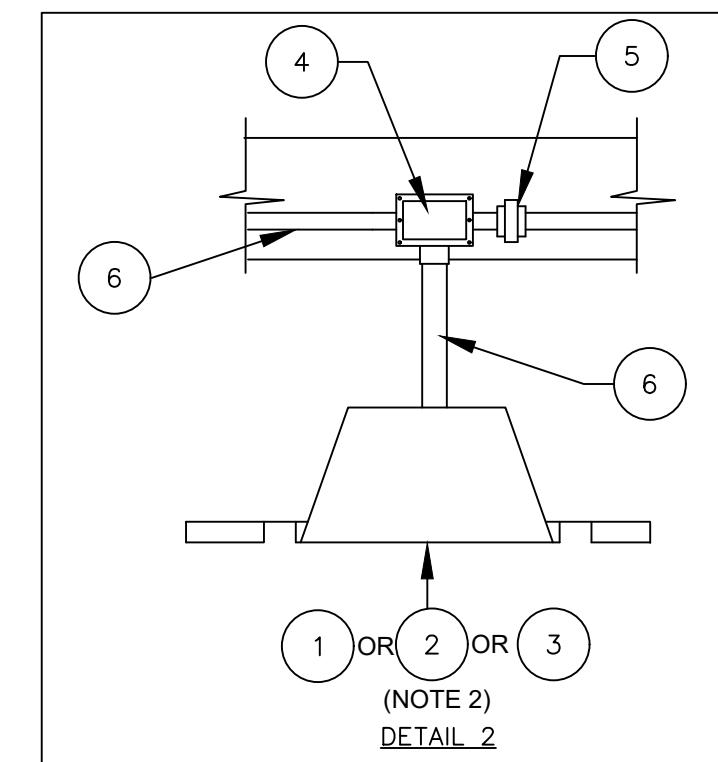
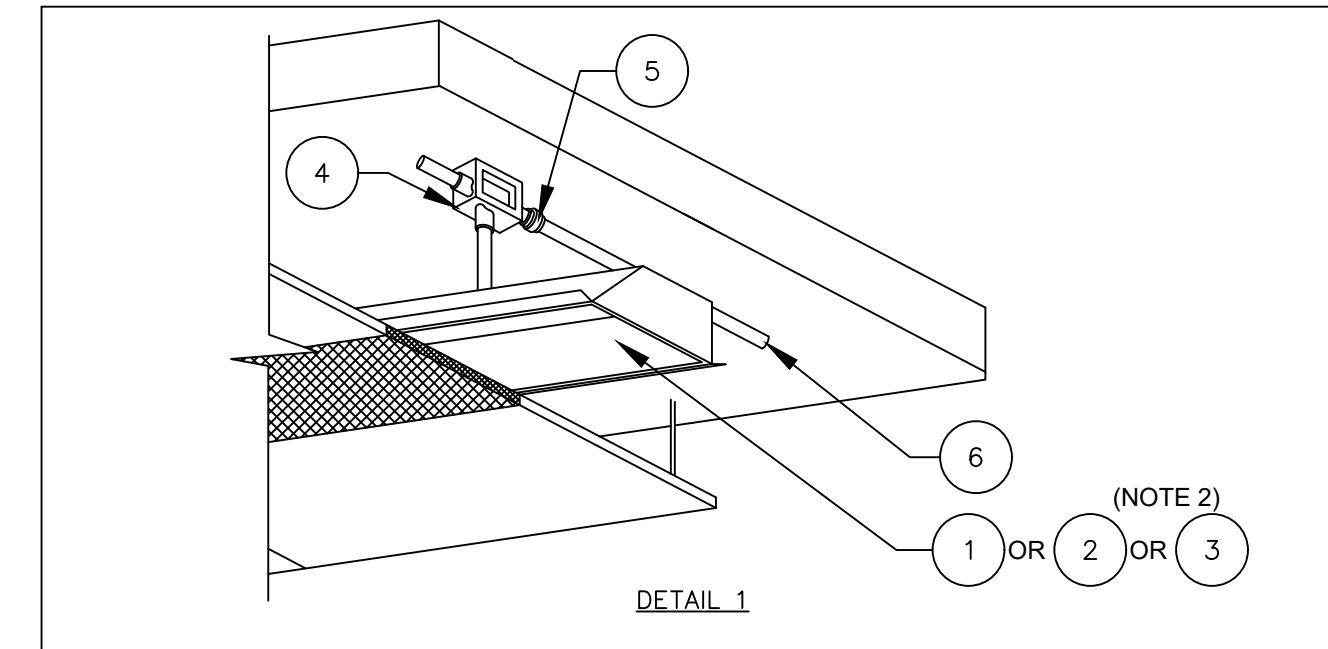
NOTES:

1. FOR MOUNTING HEIGHT SEE PLAN DWG. 078051C-1000-DW-1632..
 2. FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65.
 3. FOR "T" FITTING SIZE REFER TO NOTE SHEET, CHART 1 AND CHART 2 ON SHEET 3.

ITEM	L53A QTY	L53B QTY	L53C QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE
1	1	-	-	EA	LED LINEAR , CEILING MOUNT, 30W, 100-240VAC, 5700K	16LTGC990121
2	-	1	-	EA	LED LINEAR , CEILING MOUNT, 40W, 100-240VAC, 5700K	16LTGC990122
3	-	-	1	EA	LED LINEAR , CEILING MOUNT , 60W, 100-240VAC, 5700K	16LTGC990123
4	1	1	1	EA	FITTING, CONDUIT BODY 3/4", TYPE "T", FORM 8, IRON ALLOY WITH COVER AND GASKET	16CONF150181
5	1	1	1	EA	UNION, CONDUIT, 3/4", TYPE "UNY" MALE/FEMALE	16CONF990203
6	*	*	*	FT	CONDUIT 3/4", RIGID GALVANIZED STEEL	16CONS050020
7	2	2	2	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED	16STUS060064
8	2	2	2	EA	CONDUIT STRAP, 3/4" SS WITH SS6 HARDWARE, USE WITH 1 5/8" STRUT CHANNEL	16STUA260014
9	2	2	2	EA	EXPANSION ANCHOR, 3/8" x 1-1/2", 316 STAINLESS STEEL, WITH FLAT WASHER AND NUT	16HWRX260166

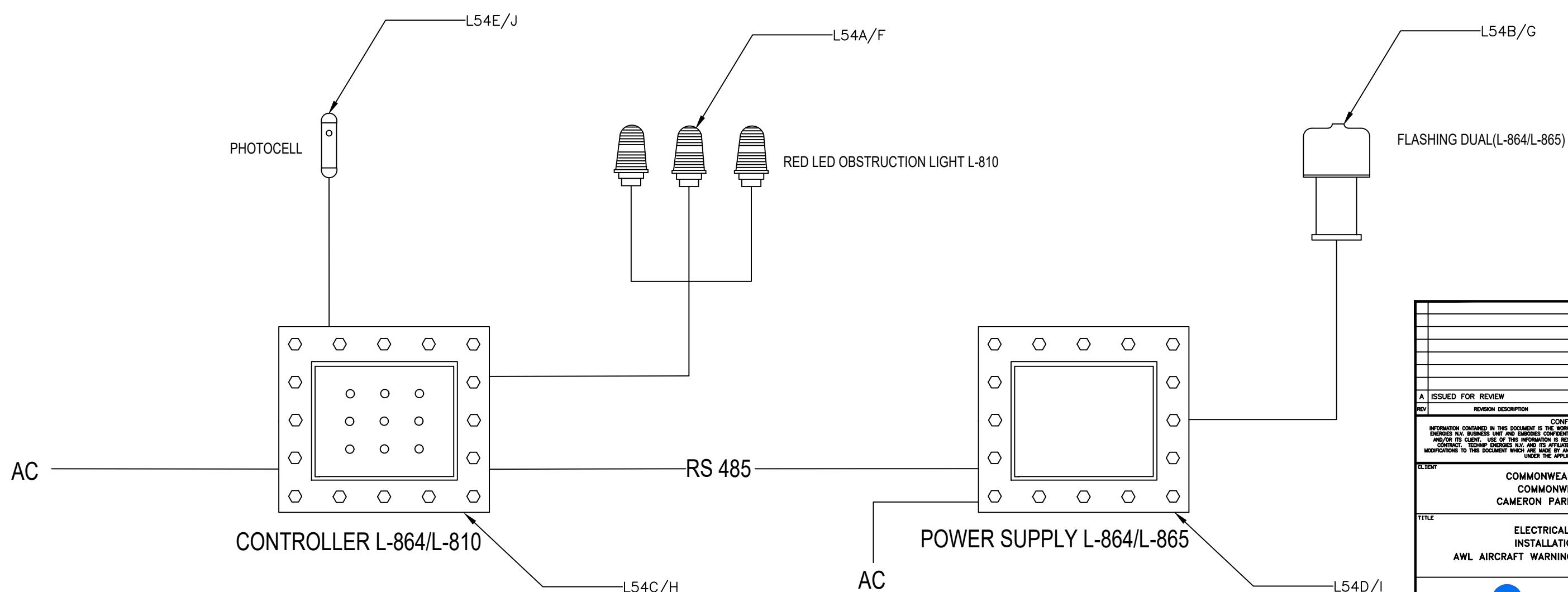


*As required



A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VWA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APPR
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. THIS INFORMATION IS CONFIDENTIAL AND PROPRIETARY PROPERTY OF THE APPLICABLE ENTITY AND/OR ITS CLIENTS. USE OF THIS INFORMATION IS RESTRICTED. AGREEMENT WITH CONTRACTORS DESCRIBED BY THE CONTRACT, TECHNIP ENERGIES N.V. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT						
COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						
TITLE						
ELECTRICAL LIGHTING INSTALLATION DETAILS LINEAR LIGHTING IN FALSE CEILING FOR NON-HAZARDOUS AREA CLASSIFICATION "L53"						
						
SCALE	CLIENT NUMBER			DRAWN BY		
PROJECT NUMBER	TECHNIP ENERGIES NUMBER			REVISION		
078051C	078051C-000-STD-1683-0001-57			A		

BILL OF MATERIAL													TPENG ITEM CODE
ITEM	L54A QTY	L54B QTY	L54C QTY	L54D QTY	L54E QTY	L54F QTY	L54G QTY	L54H QTY	L54I QTY	L54J QTY	UNIT		
1	1	-	-	-	-	-	-	-	-	-	EA	DIALIGHT, SAFESITE L-810, RED LED OBSTRUCTION LIGHT (RED), SINGLE UNIT, 120V AC, CL I, DIV 2	16LTGO990073
2	-	1	-	-	-	-	-	-	-	-	EA	OBSTRUCTION LIGHT, DUAL, RED/WHITE, LED, DIALIGHT, DHZ-BFHD-8C	16LTGO990002
3	-	-	1	-	-	-	-	-	-	-	EA	CONTROLLER FOR L-864/L-810 RED LIGHTS, 120-240V AC, 50/60 HZ, CL I, DIV 2	16LTGP050076
4	-	-	-	1	-	-	-	-	-	-	EA	POWER SUPPLY PANEL L864/L865 CL I, DIV 2	16LTGP050075
5	-	-	-	-	1	-	-	-	-	-	EA	PHOTOCELL, CL I, DIV 2	16LTGO990074
6	-	-	-	-	-	1	-	-	-	-	EA	INDUSTRIAL FLASHING, L-810, RED LED OBSTRUCTION SAFE AREA	16LTGO990125
7	-	-	-	-	-	-	1	-	-	-	EA	FLASHING DUAL (WHITE/RED) L-864/865 SAFE AREA	16LTGP990126
8	-	-	-	-	-	-	-	1	-	-	EA	CONTROLLER FOR L-864/L-810 RED LIGHTS, 120-240V AC, 50/60 HZ, SAFE AREA	16LTGP990127
9	-	-	-	-	-	-	-	-	1	-	EA	POWER SUPPLY PANEL L864/L865 SAFE AREA	16LTGP990128
10	-	-	-	-	-	-	-	-	-	1	EA	PHOTOCELL	16LTGO990107



A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VW	VWA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APPR
CONFIDENTIAL						
INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGIES NV. BUSINESS UNIT AND CONSTITUTES CONFIDENTIAL AND PROPRIETARY INFORMATION OF THE APPLICABLE ENTITY AND ITS CLIENTS. THIS INFORMATION IS NOT TO BE COPIED, REPRODUCED, OR DISCLOSED EXCEPT AS PROVIDED BY THE CONTRACT. TECHNIP ENERGIES NV. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT						
COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						
TITLE						
ELECTRICAL LIGHTING INSTALLATION DETAILS AWL AIRCRAFT WARNING LIGHT SCHEME "L54"						
 					COMMONWEALTH LNG	
SCALE		CLIENT NUMBER				
PROJECT NUMBER		TECHNIP ENERGIES NUMBER	DRAWN BY			
078051C		078051C-000-STD-1683-0001-58	FV			
			A			

L55A/B

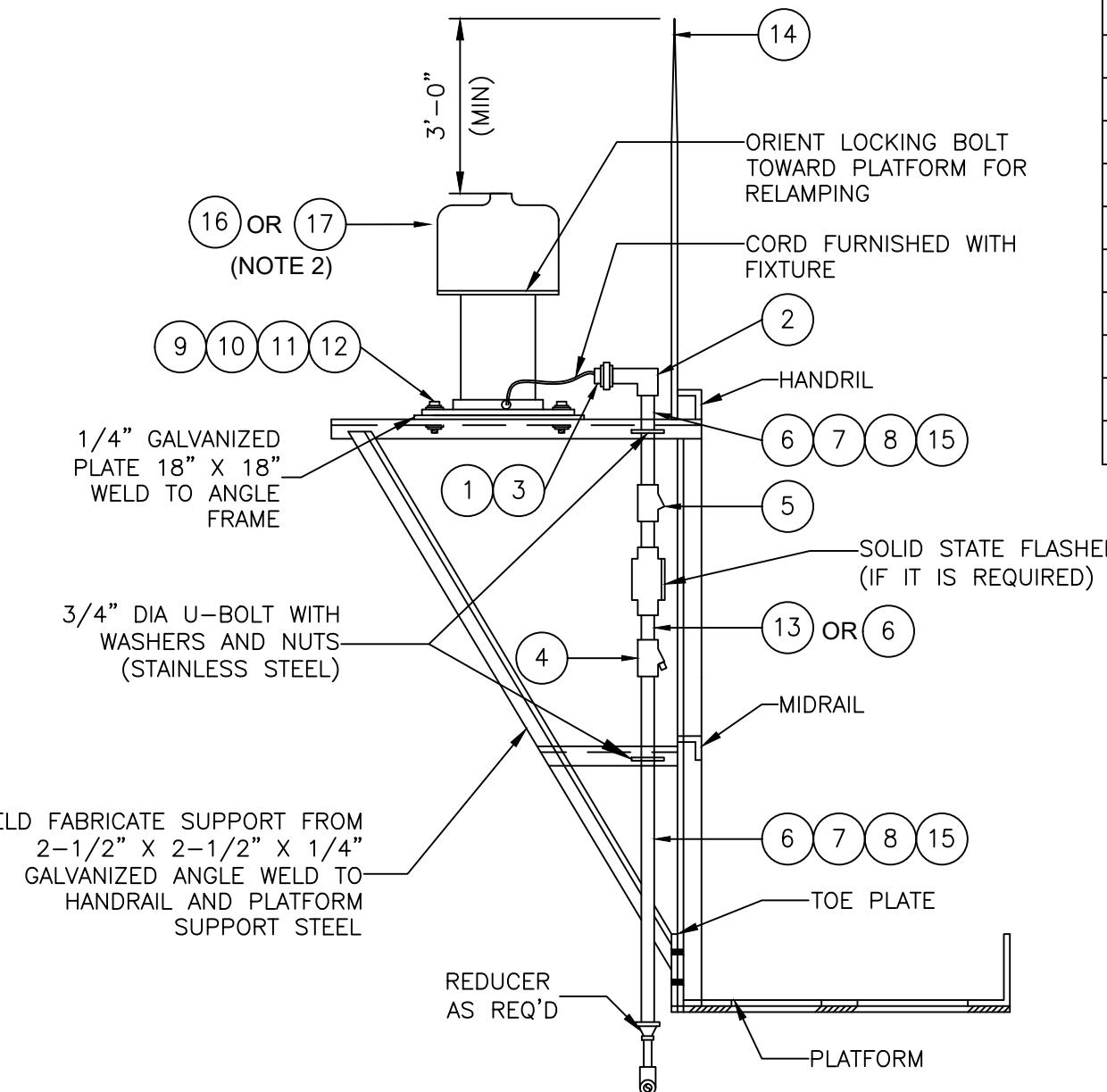
ITEM	L55A QTY	L55B QTY	UNIT	BILL OF MATERIAL	TPFMC ITEM CODE
1	1	1	EA	CABLE GLAND, 3/4", RGS, VERIFY WITH CABLE O.D. SIZE	16CBLA210067
2	2	2	EA	FITTING, CONDUIT BODY 3/4", TYPE "LB", FORM 8, IRON ALLOY WITH COVER AND GASKET	16CONF150101
3	1	1	EA	REDUCER, CONDUIT, 3/4" X 1/2"	16CONF140152
4	1	1	EA	SEAL, 3/4" TYPE "EYS", VERTICAL/HORIZONTAL, MALE/FEMALE	16CONF990081
5	1	1	EA	SEAL, DRAIN TYPE, 3/4", TYPE "EYD", MALE/FEMALE	16CONF990076
6	4-0" [4]	4-0" [4]	FT	CONDUIT 3/4", RIDGE [RIGID] ZED STEEL	16CONS050020
7	*	*	FT	WIRE, 1/C #12 AWG., STRANDED COPPER, 600V/1000V., XHHW BLACK (500FT REEL)	16CBLL180010
8	*	*	FT	WIRE, 1/C #12 AWG., STRANDED COPPER, 600V/1000V., XHHW WHITE (500FT REEL)	16CBLL180012
9	4	4	EA	MACHINE BOLT 1/2" x 1-1/4", HEX HEAD NC THREADS 316 STAINLESS STEEL	16HWRX260095
10	4	4	EA	NUT, HEX HEAD, 1/2" 316 STAINLESS STEEL	16HWRX260051
11	4	4	EA	WASHER, LOCK 1/2", 316 STAINLESS STEEL	16HWRX260012
12	4	4	EA	WASHER, FLAT, 1/2", 316 STAINLESS STEEL	16HWRX260081
13	-	-	EA	REDUCER, 3/4" X 1", RGS (AS REQUIRED)	16CONF140133
14	-	-	EA	LIGHTNING ROD ASSEMBLY K11 (LIGHTNING PROTECTION DETAIL)	16GRNF030055
15	*	*	FT	WIRE, 1/C #12 AWG., STRANDED COPPER, 600V/1000V., XHHW GREEN (500FT REEL)	16CBLL180011
16	1	-	EA	INDUSTRIAL FLASHING RED LED BEACON SAFE AREA	16LTGO990125
17	-	1	EA	FLASHING RED LED BEACON,L-864, CL I, DIV 2	16LTGP050077

* As required

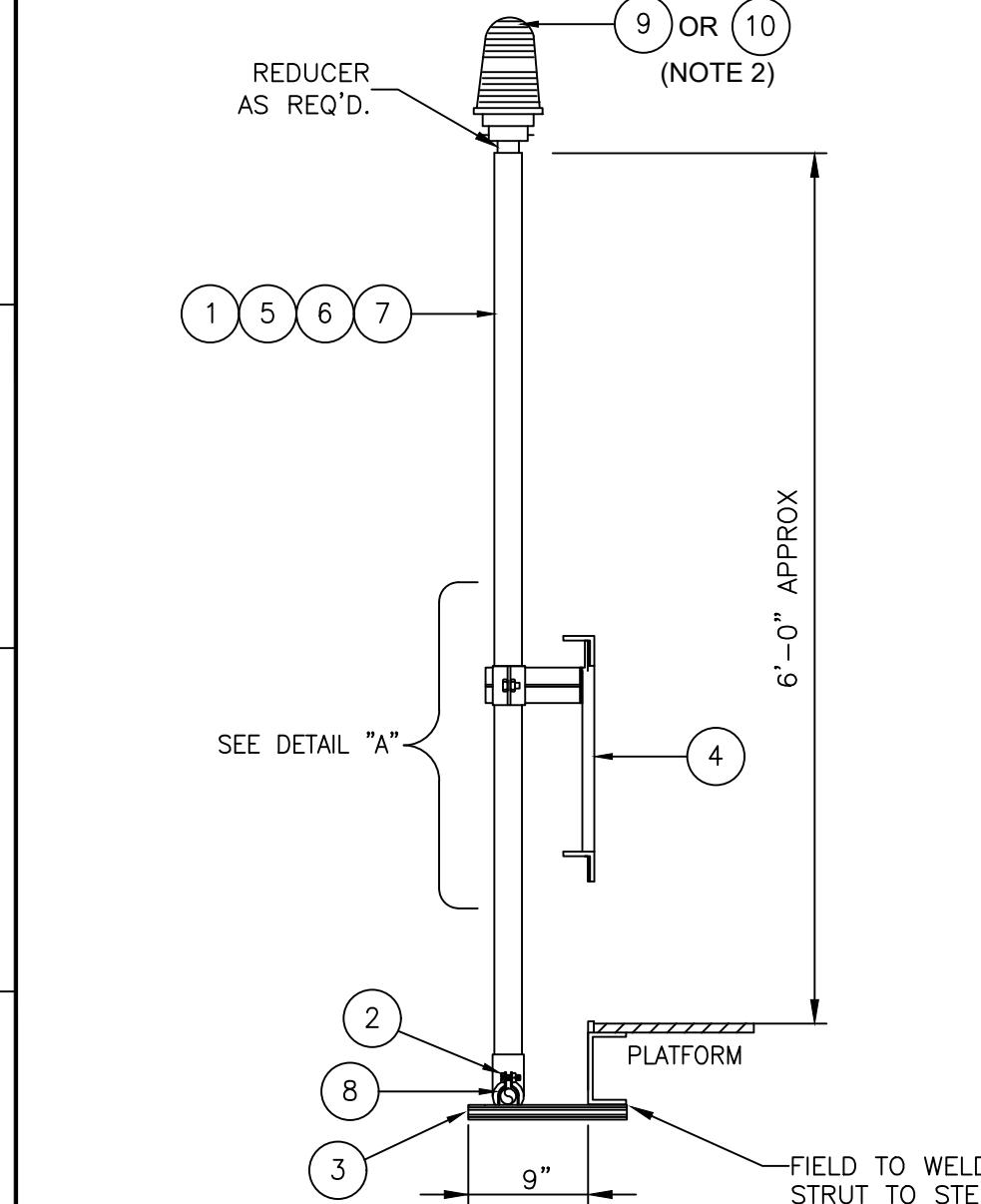
OTES:

FOR FIXTURE TYPE REFER TO FIXTURE SCHEDULE ON SHEET 65 & 66

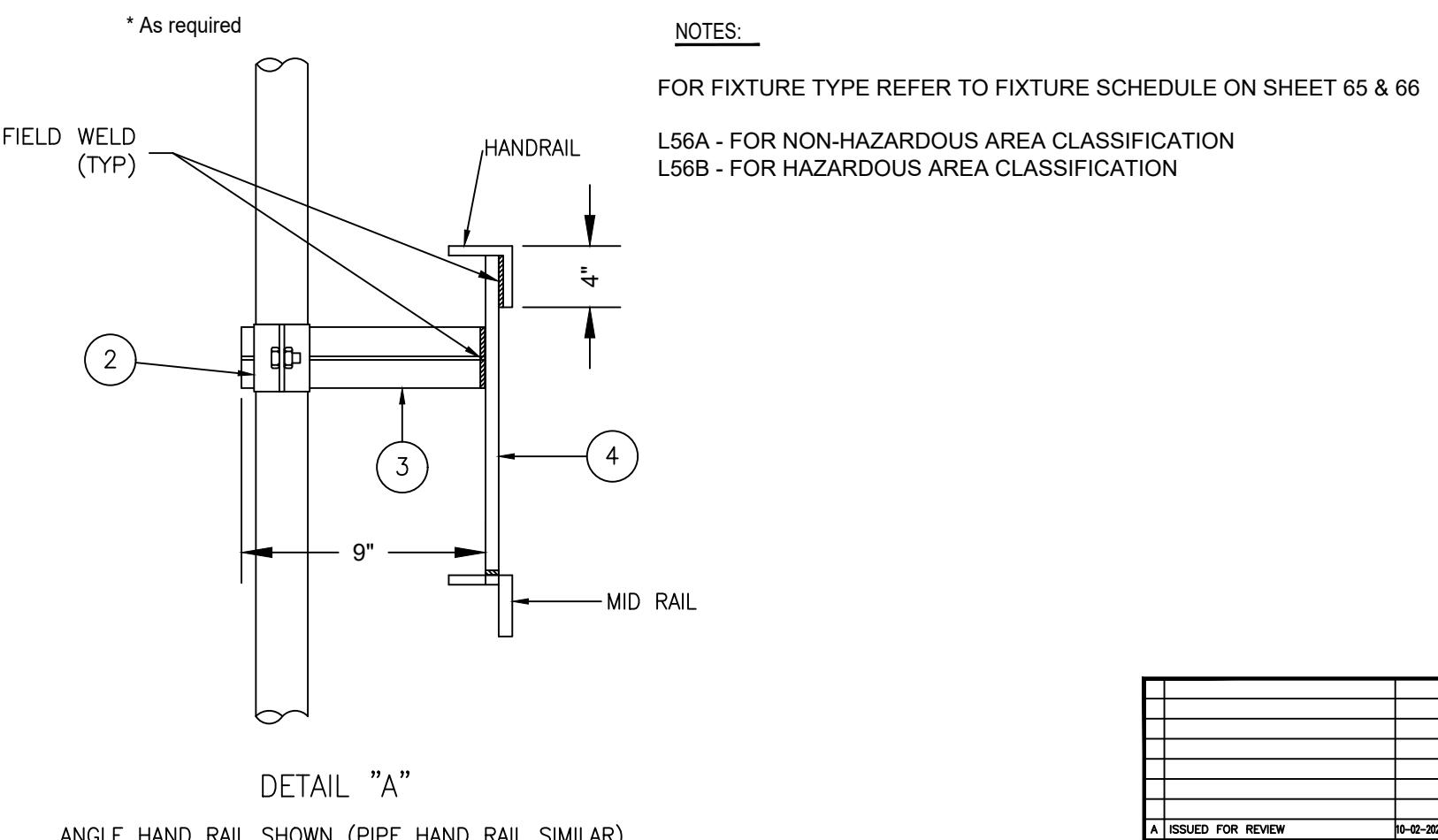
L55A - FOR NON-HAZARDOUS AREA CLASSIFICATION
L55B - FOR HAZARDOUS AREA CLASSIFICATION



A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL						
INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGIES N.V. BUSINESS UNIT AND EMBODES CONFIDENTIAL AND PROPRIETARY INFORMATION OF THE APPLICABLE ENTITY AND/OR ITS CLIENT. USE OF THIS INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED BY THE CONTRACT. TECHNIP ENERGIES N.V. AND ITS SUBSIDIARIES RESERVE THE RIGHT TO REVOKE THE PRIVILEGES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT	COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA					
TITLE	ELECTRICAL LIGHTING INSTALLATION DETAILS AIRCRAFT OBSTRUCTION FLASHING RED BACON HAZARDOUS AREA CLASSIFICATION (HAC) AND NON-HAC "L53"					
						
SCALE	CLIENT NUMBER			DRAWN BY		
				FV		
PROJECT NUMBER	TECHNIP ENERGIES NUMBER			REVISION		
078051C	078051C-000-STD-1683-0001-59			A		

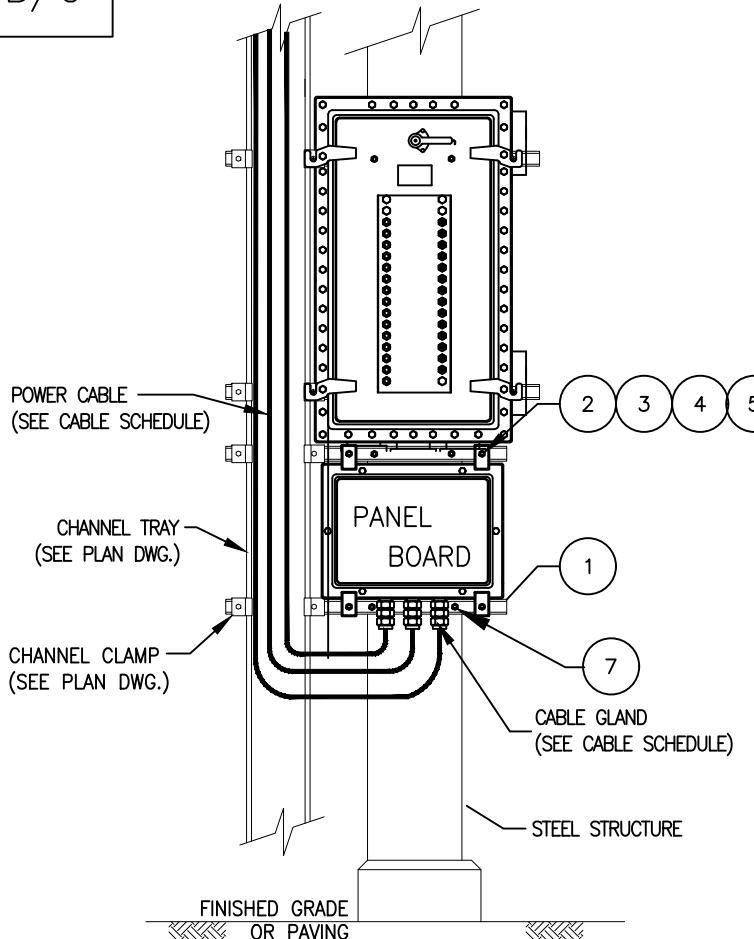
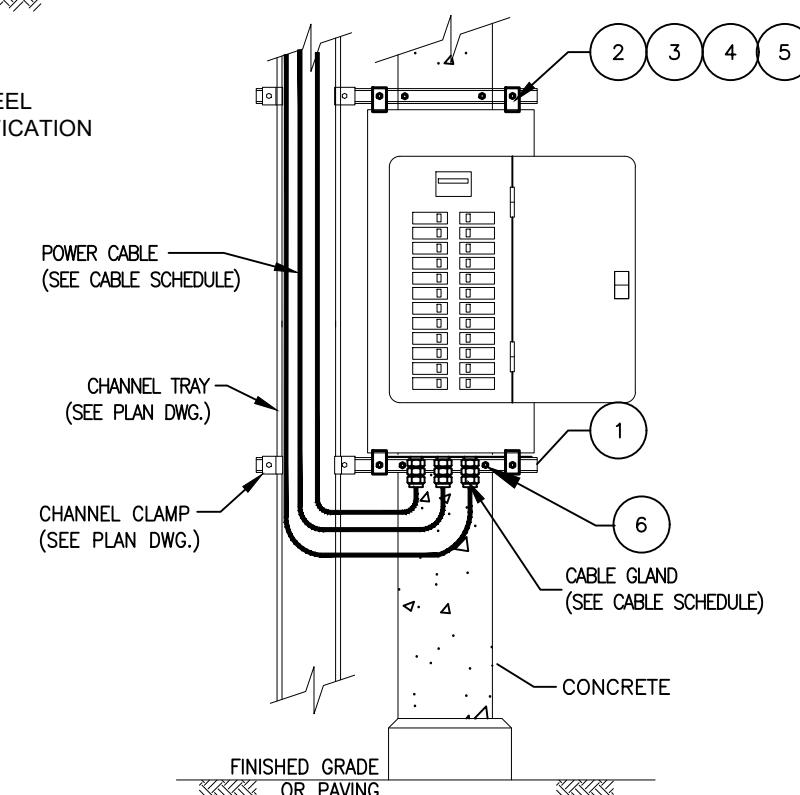
A
L56A/B

ITEM	L56A QTY	L56B QTY	UNIT	BILL OF MATERIAL	TPFMC ITEM CODE
1	7'-0" 7	7'-0" 7	EA FT	CONDUIT 1", RIDGE RIGID ZED STEEL	16CONS050021
2	2	2	EA FT	CONDUIT STRAP 1" 304SS WITH 304SS HARDWARE, USE WITH 1 5/8" STRUT CHANNEL	16STUA080017
3	3'-0" 3	3'-0" 3	EA FT	STRUT CHANNEL, 1 5/8" x 1 5/8" HDG SOLID STRUT 10FT	16STUS060003
4	1	1	EA	STEEL PLATE, GALVANIZED, 1/4" X 4" X 1' -6"	16SPTS060004
5	*	*	EA FT	RE, 1/C #12 AWG., STRANDED COPPER, 600V/1000V., XHHW BLACK (500FT REEL)	16CBLL180010
6	*	*	EA FT	RE, 1/C #12 AWG., STRANDED COPPER, 600V/1000V., XHHW WHITE (500FT REEL)	16CBLL180012
7	*	*	EA FT	RE, 1/C #12 AWG., STRANDED COPPER, 600V/1000V., XHHW GREEN (500FT REEL)	16CBLL180011
8	1	1	EA	FITTING, CONDUIT BODY 1", TYPE "T", FORM 8, IRON ALLOY WITH COVER AND GASKET	16CONF150183
9	1	-	EA	INDUSTRIAL RED LED OBSTRUCTION LIGHT SAFE AREA	16LTGO990125
10	-	1	FT	RED LED OBSTRUCTION LIGHT, CLASS 1, DIVISION 2	16LTGO990073



A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VW	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS EXCLUDED FROM THE INFORMATION CONTROLLED BY THE CONTRACTUAL AGREEMENTS OF THE CONTRACTOR AND/OR ITS CLIENT. USE OF THIS INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES N.V. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS AIRCRAFT OBSTRUCTION LIGHT-RED HANDRAIL MOUNT FOR HAZARDOUS AREA CLASSIFICATION AND NON "L56"						
 						
SCALE	CLIENT NUMBER	DRAWN BY				
		FV				
PROJECT NUMBER	TECHNIP ENERGIES NUMBER	REVISION				
078051C	078051C-000-STD-1683-0001-60	A				

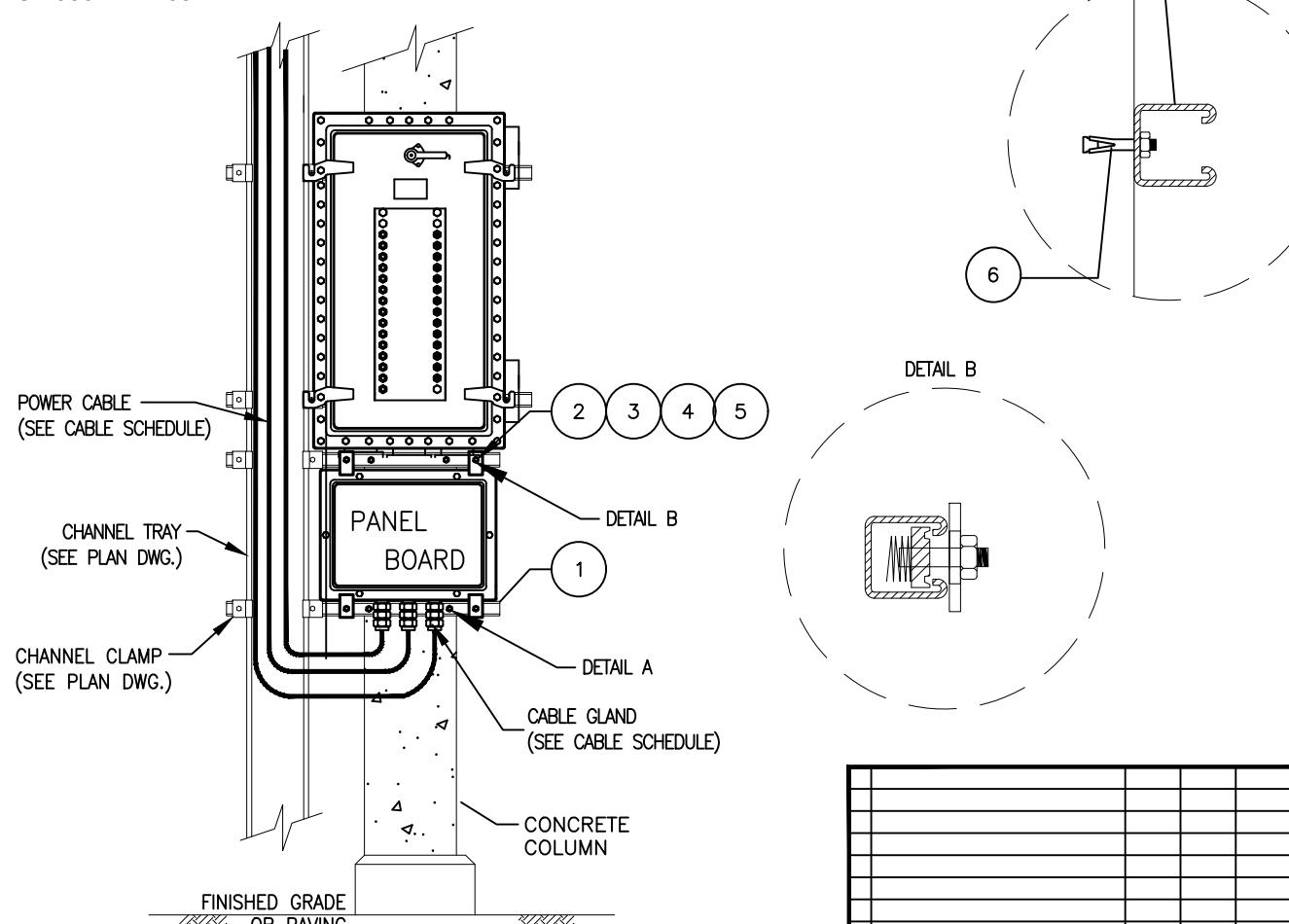
L57A/B/C

DETAIL L57C
FIXTURE MOUNTED ON STEEL
FOR HAZARDOUS AREA CLASSIFICATIONDETAIL L57B
FIXTURE NON-HAZARDOUS CLASSIFICATION
FOR HAZARDOUS AREA CLASSIFICATION

ITEM	L57A QTY	L57B QTY	L57C QTY	UNIT	BILL OF MATERIAL		TPENG ITEM CODE
					15	15	
1	15	15	15	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED		16STUS060064
2	8	4	8	EA	MACHINE BOLT 3/8" X 1-1/2" HEX HEAD NC THREADS 316 STAINLESS STEEL		16HWRX260135
3	8	4	8	EA	WASHER, FLAT 3/8" 316 STAINLESS STEEL		16HWRX260061
4	8	4	8	EA	WASHER, LOCK 3/8" 316 STAINLESS STEEL		16HWRX260082
5	8	4	8	EA	SPRING NUT 3/8-16 316 SS		16HWRX260004
6	8	4	-	EA	EXPANSION ANCHOR, 3/8" x 1-1/2", 316 STAINLESS STEEL, WITH FLAT WASHER AND NUT		16HWRX260166
7	-	-	8	EA	STUD, THREADED, 3/8", X-BT-MR W10/15 SN 8, WITH NUT, 316 STAINLESS STEEL		16HWRX260009

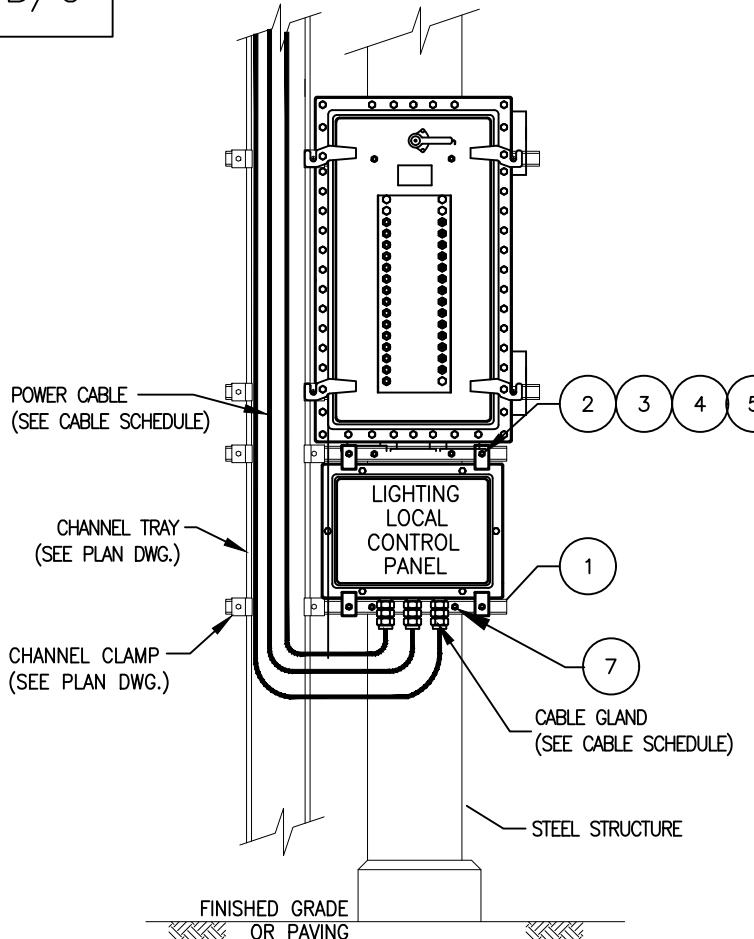
NOTES:

1. FOR MOUNTING HEIGHT SEE PLAN DWG. 078051C-1000-DW-1632.

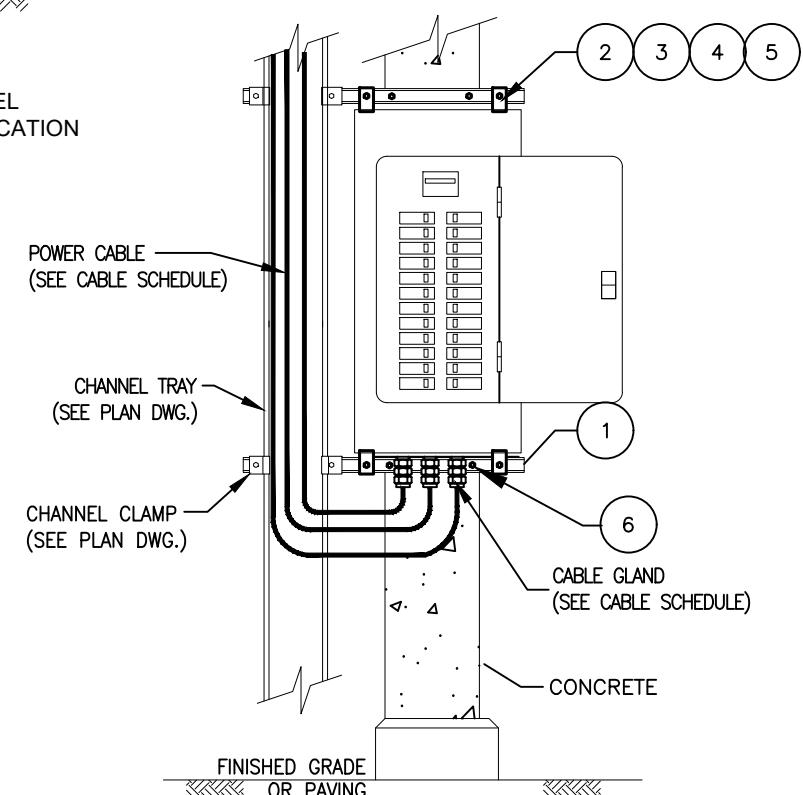
DETAIL L57A
FIXTURE MOUNTED ON CONCRETE
FOR HAZARDOUS AREA CLASSIFICATION

A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS PROVIDED CONFIDENTIAL INFORMATION FOR USE ONLY BY THE CONTRACTING PARTIES AND/OR THEIR AFFILIATES. USE OF THIS INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES NV, AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS PANEL BOARD INSTALLED ON CONCRETE COLUMN/STEEL STRUCTURE "L57"						
TEN TECHNIP ENERGIES		COMMONWEALTH LNG				
SCALE	CLIENT NUMBER	DRAWN BY				
		FV				
PROJECT NUMBER	TECHNIP ENERGIES NUMBER	REVISION				
078051C	078051C-000-STD-1683-0001-61	A				

L58A/B/C



DETAIL L58C
Fixture mounted on steel
for hazardous area classification

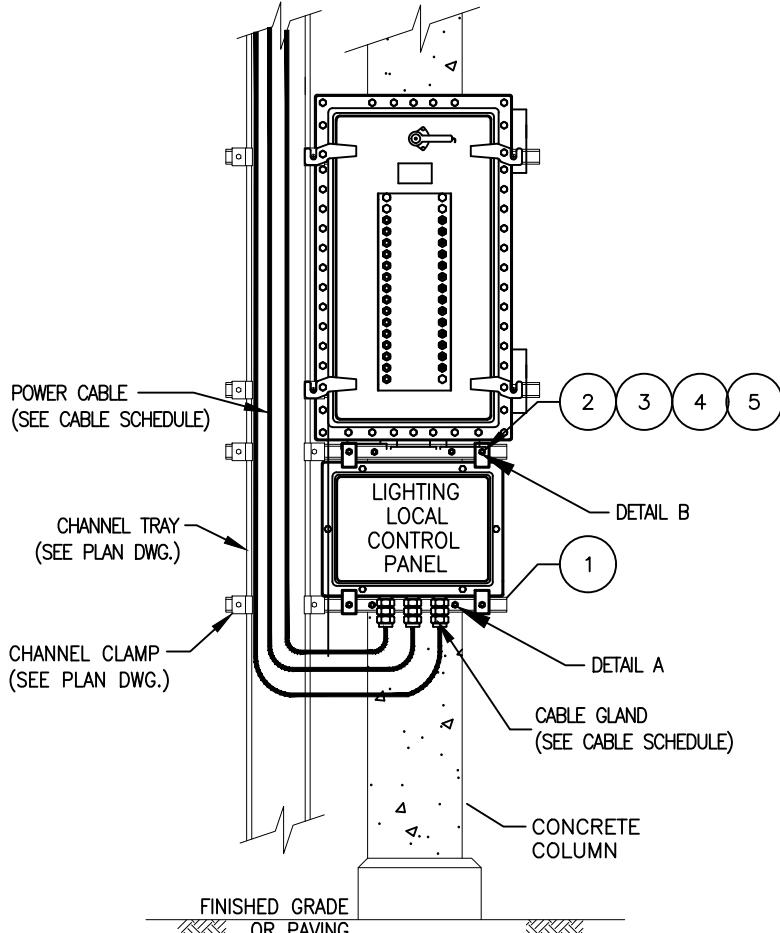


DETAIL L58B
Fixture Non-Hazardous Classification
For Fixture on Concrete Column

ITEM	L58A QTY	L58B QTY	L58C QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE
1	15	15	15	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED	16STUS060064
2	8	4	8	EA	MACHINE BOLT 3/8" X 1-1/2" HEX HEAD NC THREADS 316 STAINLESS STEEL	16HWRX260135
3	8	4	8	EA	WASHER, FLAT 3/8" 316 STAINLESS STEEL	16HWRX260061
4	8	4	8	EA	WASHER, LOCK 3/8" 316 STAINLESS STEEL	16HWRX260082
5	8	4	8	EA	SPRING NUT 3/8-16 316 SS	16HWRX260004
6	8	4	-	EA	EXPANSION ANCHOR, 3/8" x 1-1/2", 316 STAINLESS STEEL, WITH FLAT WASHER AND NUT	16HWRX260166
7	-	-	8	EA	STUD, THREADED, 3/8", X-BT-MR W10/15 SN 8, WITH NUT, 316 STAINLESS STEEL	16HWRX260009

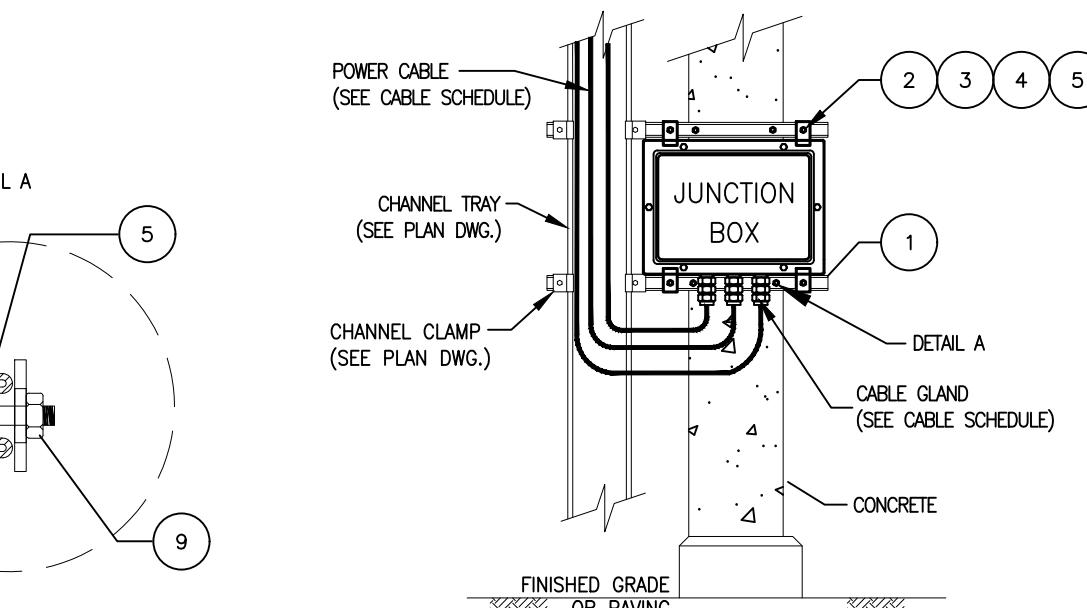
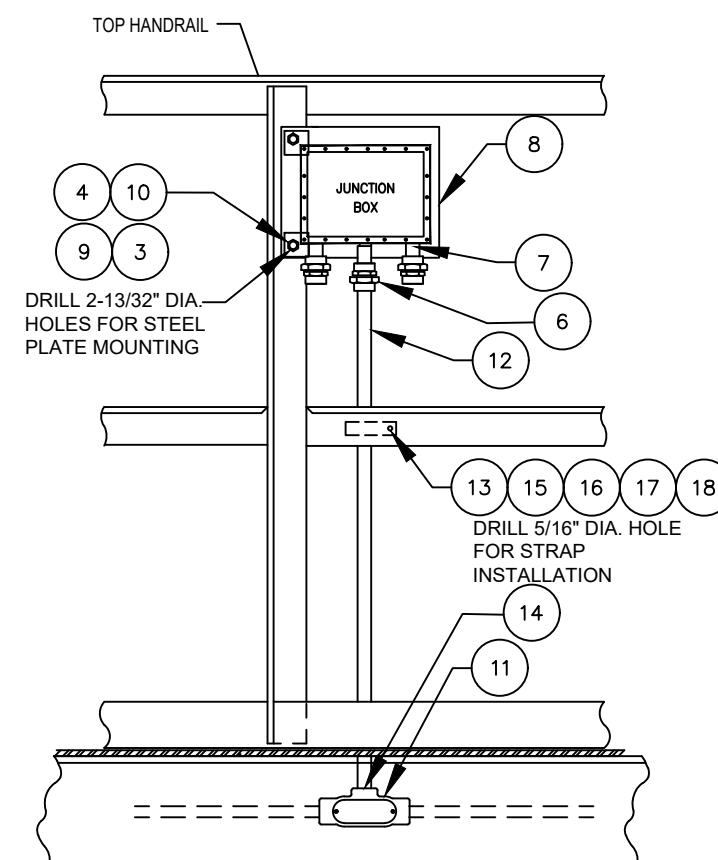
NOTES:

1. FOR MOUNTING HEIGHT SEE PLAN DWG. 078051C-1000-DW-1632.



DETAIL L58A
Fixture mounted on concrete
for hazardous area classification

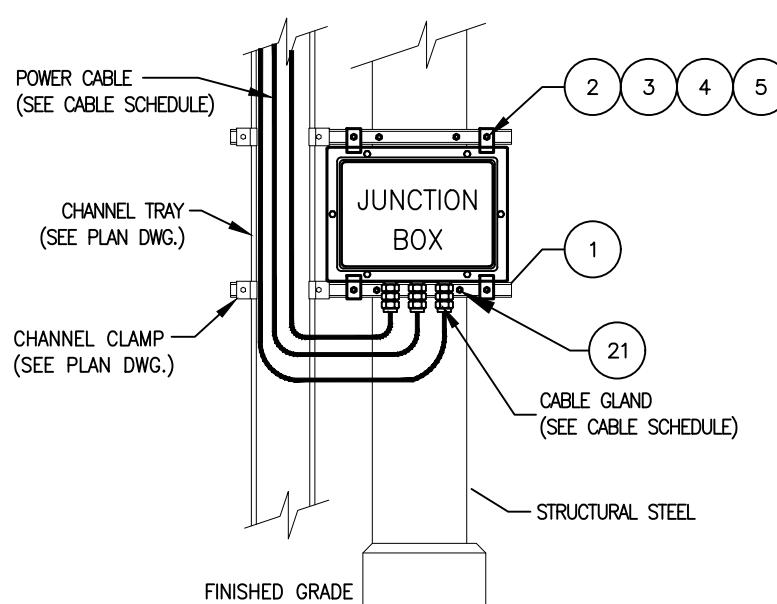
A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APPR
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGIES NV. BUSINESS UNIT AND EMBOIDES CONFIDENTIAL AND PROPRIETARY INFORMATION OF THE APPLICABLE ENTITY AND ITS CLIENTS. THIS INFORMATION IS PROVIDED PURSUANT TO THE CONTRACTS BETWEEN THE APPLICABLE ENTITY AND THE CONTRACTOR. TECHNIP ENERGIES NV. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT	COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA					
TITLE	ELECTRICAL LIGHTING INSTALLATION DETAILS LOCAL CONTROL PANEL INSTALLED ON CONCRETE COLUMN/STEEL STRUCTURE "L58"					
 				COMMONWEALTH LNG		
SCALE	CLIENT NUMBER			DRAWN BY		
				FV		
PROJECT NUMBER	TECHNIP ENERGIES NUMBER			REVISION		
078051C	078051C-000-STD-1683-0001-62			A		

A
L59A/B/CDETAIL L59A
FIXTURE MOUNTED ON CONCRETEDETAIL L59B
FIXTURE MOUNTED ON HANDRAIL

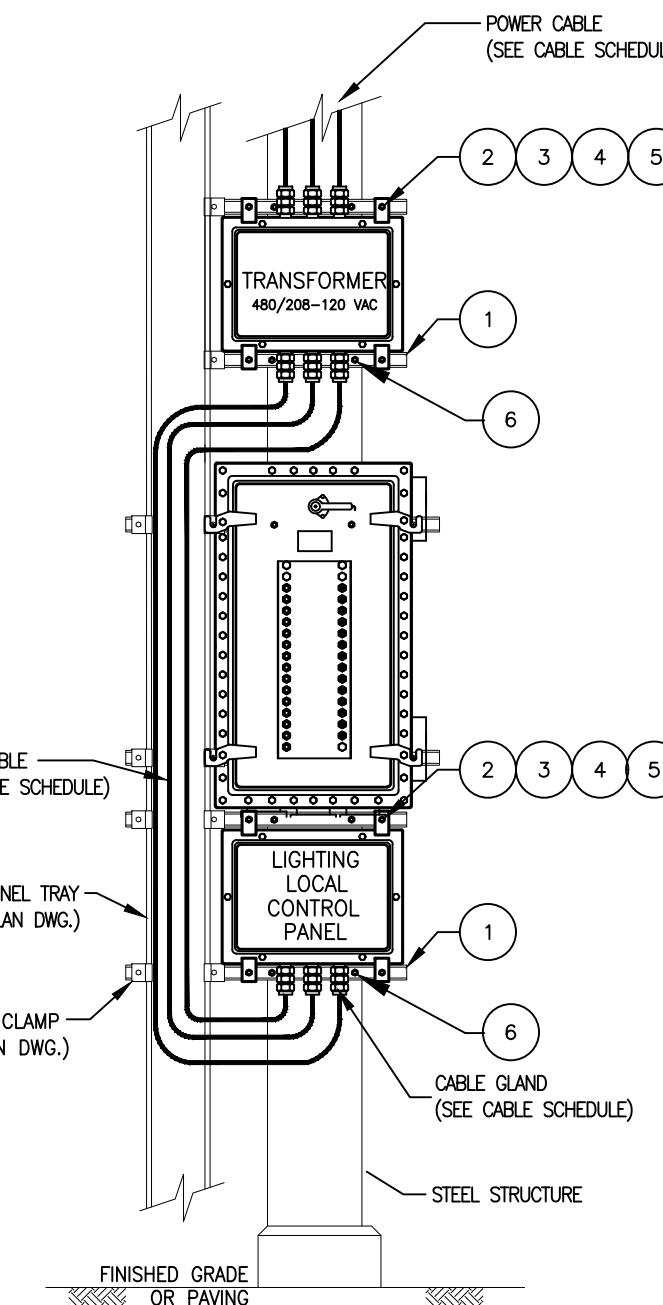
ITEM	L59A QTY	L59B QTY	L59C QTY	UNIT	BILL OF MATERIAL		TPENG ITEM CODE
					1	1	
1	15	-	15	FT	STRUT, HS-1-5/8" X 1-5/8", 12 GAUGE, HDG		16STUS060056
2	4	-	4	EA	MACHINE BOLT 3/8" X 1-1/2" HEX HEAD NC THREADS 316 STAINLESS STEEL		16HWRX260135
3	4	2	4	EA	WASHER, FLAT 3/8" 316 STAINLESS STEEL		16HWRX260061
4	4	2	4	EA	WASHER, LOCK 3/8" 316 STAINLESS STEEL		16HWRX260082
5	8	-	4	EA	SPRING NUT 3/8-16 316 SS		16HWRX260004
6	-	1	-	EA	UNION, CONDUIT, 3/4", TYPE "UNY" MALE/FEMALE		16CONF990203
7	-	1	-	EA	NIPPLE, CONDUIT, 3/4" X CLOSE		16CONF990216
8	-	1	-	EA	STEEL PLATE, GALVANIZED, 1/4" X 8" X 10"		16SPTS060012
9	4	2	-	EA	MACHINE BOLT 3/8" X 1", HEX HEAD NC THREADS 316 STAINLESS STEEL		16HWRX260083
10	-	2	-	EA	NUT, HEX HEAD, 3/8" 316 STAINLESS STEEL		16HWRX260050
11	-	1	-	EA	FITTING, CONDUIT BODY 1 1/2", TYPE "T", FORM 8, IRON ALLOY WITH COVER AND GASKET		16CONF150185
12	-	4	-	FT	CONDUIT 3/4", RIGID GALVANIZED STEEL		16CONS050020
13	-	1	-	EA	ONE HOLE CONDUIT STRAP, 3/4" - 316 STAINLESS STEEL		16CONF260039
14	-	3	-	EA	REDUCER, CONDUIT, 1 1/2" X 3/4"		16CONF140138
15	-	3	-	EA	MACHINE BOLT 1/4" X 1", HEX HEAD NC THREADS 316 STAINLESS STEEL		16HWRX260043
16	-	3	-	EA	WASHER, FLAT 1/4" 316 STAINLESS STEEL		16HWRX260060
17	-	3	-	EA	WASHER, LOCK 1/4" 316 STAINLESS STEEL		16HWRX260069
18	-	3	-	EA	NUT, HEX HEAD, 1/4" 316 STAINLESS STEEL		16HWRX260049
19	4	-	-	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED		16STUS060064
20	4	-	-	EA	EXPANSION ANCHOR, 3/8" x 1-1/2", 316 STAINLESS STEEL, WITH FLAT WASHER AND NUT		16HWRX260166
21	4	-	4	EA	STUD, THREADED, 3/8", X-BT-MR W10/15 SN 8, WITH NUT, 316 STAINLESS STEEL		16HWRX260009

NOTES:

1. FOR MOUNTING HEIGHT SEE PLAN DWG. 078051C-1000-DW-1632.

DETAIL L59C
FIXTURE MOUNTED ON STEEL

A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. USE OF THIS INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES INC. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS JUNCTION BOX INSTALLED ON CONCRETE COLUMN/STEEL STRUCTURE/HANDRAIL "L59"						
DRAWN BY						
SCALE	CLIENT NUMBER	FV				
PROJECT NUMBER	TECHNIP ENERGIES NUMBER	REVISION				
078051C	078051C-000-STD-1683-0001-63	A				

A
L60/A

DETAIL L60A
FIXTURE MOUNTED ON STEEL
FOR HAZARDOUS AREA CLASSIFICATION

ITEM	L60A QTY	UNIT	BILL OF MATERIAL	TPENG ITEM CODE
1	30	FT	STRUT CHANNEL, 1 5/8" X 1 5/8" HDG SLOTTED	16STUS060064
2	16	EA	MACHINE BOLT 3/8" X 1-1/2" HEX HEAD NC THREADS 316 STAINLESS STEEL	16HWRX260135
3	16	EA	WASHER, FLAT 3/8" 316 STAINLESS STEEL	16HWRX260061
4	16	EA	WASHER, LOCK 3/8" 316 STAINLESS STEEL	16HWRX260082
5	16	EA	SPRING NUT 3/8-16 316 SS	16HWRX260004
6	8	EA	STUD, THREADED, 3/8", X-BT-MR W10/15 SN 8, WITH NUT, 316 STAINLESS STEEL	16HWRX260009

NOTES:

1. FOR MOUNTING HEIGHT SEE PLAN DWG. 078051C-1000-DW-1632.

A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
<small>CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. THIS INFORMATION IS CONFIDENTIAL AND IS THE PROPERTY OF THE ISSUING ENTITY AND/OR ITS CLIENT. USE OF THIS INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES INC. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.</small>						
<small>CLIENT</small>						
<small>COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA</small>						
<small>TITLE</small>						
<small>ELECTRICAL LIGHTING INSTALLATION DETAILS PANEL BOARD WITH TRANSFORMER INSTALLED ON STEEL STRUCTURE "L60"</small>						
<small>SCALE</small>						
<small>CLIENT NUMBER</small>						
<small>FV</small>						
<small>PROJECT NUMBER</small>						
<small>TECHNIP ENERGIES NUMBER</small>						
<small>REVISION</small>						
<small>078051C 078051C-000-STD-1683-0001-64 A</small>						

A	B	C	D	E	F	G	H	J	K
1									
2									
3									
4									
5									
6									

SYMBOL	Fixture Type	Mounting Type	Input Watts	Temp. Marking	Description	TPENG Item Code	Manufacturer
	C1	CEILING	29	T4A	LED, CHAMP VMV, CEILING MOUNT, 29W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGC990031	CROUSE-HINDS
	C2	CEILING	41	T4A	LED, CHAMP VMV, CEILING MOUNT, 41W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGC990032	CROUSE-HINDS
	C3	CEILING	54	T4A	LED, CHAMP VMV, CEILING MOUNT, 54W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGC990033	CROUSE-HINDS
	S1	STANCHION	29	T4A	LED, CHAMP VMV, STANCHION MOUNT,25 DEG. ANGLE, 29W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K	16LTGS990039	CROUSE-HINDS
	S2	STANCHION	41	T4A	LED, CHAMP VMV, STANCHION MOUNT,25 DEG. ANGLE, 41W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K	16LTGS990040	CROUSE-HINDS
	S3	STANCHION	54	T4A	LED, CHAMP VMV, STANCHION MOUNT,25 DEG. ANGLE, 54W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K	16LTGS990041	CROUSE-HINDS
	S4	STANCHION	30	T4A	LED LINEAR , STANCHION MOUNT ,25 DEG. ANGLE, 30W, CL. I, DIV. 2, A,B,C,D, 100-240VAC, 5700K	16LTGS990103	CROUSE-HINDS
	S5	STANCHION	40	T4A	LED LINEAR , STANCHION MOUNT ,25 DEG. ANGLE, 40W, CL. I, DIV. 2, A,B,C,D, 100-240VAC, 5700K	16LTGS990104	CROUSE-HINDS
	S6	STANCHION	60	T4A	LED LINEAR , STANCHION MOUNT ,25 DEG. ANGLE, 60W, CL. I, DIV. 2, A,B,C,D, 100-240VAC, 5700K	16LTGS990105	CROUSE-HINDS
	P1	PENDANT	29	T4A	LED, CHAMP VMV, PENDANT MOUNT, 29W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGH990035	CROUSE-HINDS
	P2	PENDANT	41	T4A	LED, CHAMP VMV, PENDANT MOUNT, 41W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGH990036	CROUSE-HINDS
	P3	PENDANT	54	T4A	LED, CHAMP VMV, PENDANT MOUNT, 54W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGH990037	CROUSE-HINDS
	P4	PENDANT	30	T4A	LED LINEAR , PENDANT MOUNT, 30W, CL. I, DIV. 2, A,B,C,D, 100-240VAC, 5700K	16LTGH990108	CROUSE-HINDS
	P5	PENDANT	40	T4A	LED LINEAR , PENDANT MOUNT, 40W, CL. I, DIV. 2, A,B,C,D, 100-240VAC, 5700K	16LTGH990109	CROUSE-HINDS
	P6	PENDANT	60	T4A	LED LINEAR , PENDANT MOUNT , 60W, CL. I, DIV. 2, A,B,C,D, 100-240VAC, 5700K	16LTGH990110	CROUSE-HINDS
	W1	WALL	30	T4A	LED LINEAR ,BRACKET MOUNT ,25 DEG. ANGLE, 30W, CL. I, DIV. 2, A,B,C,D, 100-240VAC, 5700K	16LTGB990111	CROUSE-HINDS
	W2	WALL	40	T4A	LED LINEAR , BRACKET MOUNT ,25 DEG. ANGLE, 40W, CL. I, DIV. 2, A,B,C,D, 100-240VAC, 5700K	16LTGB990112	CROUSE-HINDS
	W3	WALL	60	T4A	LED LINEAR , BRACKET MOUNT ,25 DEG. ANGLE, 60W, CL. I, DIV. 2, A,B,C,D, 100-240VAC, 5700K	16LTGB990113	CROUSE-HINDS
	W4	WALL	29	T4A	LED, CHAMP VMV, WALL MOUNT, 29W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGW990047	CROUSE-HINDS
	W5	WALL	41	T4A	LED, CHAMP VMV, WALL MOUNT, 41W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGW990048	CROUSE-HINDS
	W6	WALL	54	T4A	LED, CHAMP VMV, WALL MOUNT, 54W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGW990049	CROUSE-HINDS
	F1	FLOODLIGHT	67	T4A	LED, CHAMP FMVA FLOOD, YOKE MOUNT, 67W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGF990051	CROUSE-HINDS
	F2	FLOODLIGHT	82	T4A	LED, CHAMP FMVA FLOOD, YOKE MOUNT, 82W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGF990052	CROUSE-HINDS
	F3	FLOODLIGHT	93	T4A	LED, CHAMP FMVA FLOOD, YOKE MOUNT, 93W, CL. I, DIV. 2, A,B,C,D, 120-277VAC, 5000K, 3/4" HUB	16LTGF990053	CROUSE-HINDS
	M0	MONGOOSE	125	T4A	DIALIGHT, STREET LIGHT,MONGOOSE,ATEX, 12,500 LUMENS 100-277V AC, 125W, CL I , DIV 2	16LTGP990154	DIALIGHT
	OB1	OBSTRUCTION	100	T5	DIALIGHT, SAFESITE L-810, RED LED OBSTRUCTION LIGHT (RED),SINGLE UNIT, 120V AC, CL I, DIV 2	16LTGO990073	DIALIGHT
	OB2	OBSTRUCTION	15	T4	OBSTRUCTION LIGHT, DUAL, RED/WHITE, LED, DIALIGHT, DHZ-BFHD-8C	16LTGO990002	DIALIGHT
	OB3	OBSTRUCTION	20	T4A	FLASHING RED LED BEACON,L-864, CL I, DIV 2	16LTGP050077	DIALIGHT
	OB4	OBSTRUCTION	18	T4A	RED LED OBSTRUCTION LIGHT, CLASS 1, DIVISION 2	16LTGO990073	DIALIGHT
	OB5	OBSTRUCTION	15	T4	CONTROLLER FOR L-864/L-810 RED LIGHTS,120-240V AC, 50/60 HZ, CL I, DIV 2	16LTGP050076	DIALIGHT
	OB6	OBSTRUCTION	86	T6	POWER SUPPLY PANEL L864/L865 CL I, DIV 2	16LTGP050075	DIALIGHT
	O1	OTHER	15	T4A	EXIT LIGHT LZ, CLASS I DIV 2	16LTGP990101	CROUSE-HINDS
	O2	OTHER	-	T4A	PHOTOCELL, CL I, DIV 2	16LTGO990074	DIALIGHT
	O3	OTHER	52	T4A	SAFESITE 180 DEG LED WALL MOUNT, GRAY, 5700 LUMENS 52 W, 100-277 VAC, COOL WHITE 5000K, (UL 844 CLASS I, DIV. 2)	16LTGW990066	DIALIGHT

A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS CONFIDENTIAL AND RESTRICTED IN ACCORDANCE WITH THE CONTRACT. USE OF THE INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGY S.A. AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS FIXTURE SCHEDULE FOR HAZARDOUS AREA CLASSIFICATION "L61"						
TEN TECHNIP ENERGY COMMONWEALTH LNG						
SCALE	CLIENT NUMBER	DRAWN BY	FV			
PROJECT NUMBER	TECHNIP ENERGY NUMBER	REVISION	078051C 078051C-000-STD-1683-0001-65 A			

A	B	C	D	E	F	G	H	J	K
1									
2									
3									
4									
5									
6									

SYMBOL	Fixture Type	Mounting Type	Input Watts	Temp. Marking	Description	TPENG Item Code	Manufacturer
	C1	CEILING	28	T4A	LED, CHAMP PVMV, CEILING MOUNT, 25 DEG. ANGLE, 28W, 100-277VAC, 5000K	16LTGC990095	CROUSE-HINDS
	C2	CEILING	45	T4A	LED, CHAMP PVMV, CEILING MOUNT, 25 DEG. ANGLE, 45W, 100-277VAC, 5000K	16LTGC990096	CROUSE-HINDS
	C3	CEILING	61	T4A	LED, CHAMP PVMV, CEILING MOUNT, 25 DEG. ANGLE, 61W, 100-277VAC, 5000K	16LTGC990097	CROUSE-HINDS
	C4	CEILING	30	T4A	LED LINEAR, CEILING MOUNT, 30W, 100-240VAC, 5700K	16LTGC990121	CROUSE-HINDS
	C5	CEILING	40	T4A	LED LINEAR, CEILING MOUNT, 40W, 100-240VAC, 5700K	16LTGC990122	CROUSE-HINDS
	C6	CEILING	60	T4A	LED LINEAR, CEILING MOUNT, 60W, 100-240VAC, 5700K	16LTGC990123	CROUSE-HINDS
	S1	STANCHION	28	T4A	LED, CHAMP PVMV, STANCHION MOUNT, 25 DEG. ANGLE, 28W, 100-277VAC, 5000K	16LTGS990083	CROUSE-HINDS
	S2	STANCHION	45	T4A	LED, CHAMP PVMV, STANCHION MOUNT, 25 DEG. ANGLE, 45W, 100-277VAC, 5000K	16LTGS990084	CROUSE-HINDS
	S3	STANCHION	61	T4A	LED, CHAMP PVMV, STANCHION MOUNT, 25 DEG. ANGLE, 61W, 100-277VAC, 5000K	16LTGS990085	CROUSE-HINDS
	S4	STANCHION	30	T4A	LED LINEAR, INDUSTRIAL, STANCHION MOUNT, 25 DEG. ANGLE, 30W, 100-240VAC, 5700K	16LTGS990086	CROUSE-HINDS
	S5	STANCHION	40	T4A	LED LINEAR, INDUSTRIAL, STANCHION MOUNT, 25 DEG. ANGLE, 40W, 100-240VAC, 5700K	16LTGS990087	CROUSE-HINDS
	S6	STANCHION	60	T4A	LED LINEAR, INDUSTRIAL, STANCHION MOUNT, 25 DEG. ANGLE, 60W, 100-240VAC, 5700K	16LTGS990088	CROUSE-HINDS
	P1	PENDANT	28	T4A	LED, CHAMP PVMV, PENDANT MOUNT, 25 DEG. ANGLE, 28W, 100-277VAC, 5000K	16LTGH990092	CROUSE-HINDS
	P2	PENDANT	45	T4A	LED, CHAMP PVMV, PENDANT MOUNT, 25 DEG. ANGLE, 45W, 100-277VAC, 5000K	16LTGH990093	CROUSE-HINDS
	P3	PENDANT	61	T4A	LED, CHAMP PVMV, PENDANT MOUNT, 25 DEG. ANGLE, 61W, 100-277VAC, 5000K	16LTGH990094	CROUSE-HINDS
	P4	PENDANT	30	T4A	LED LINEAR, PENDANT MOUNT, 30W, 100-240VAC, 5700K	16LTGH990129	CROUSE-HINDS
	P5	PENDANT	40	T4A	LED LINEAR, PENDANT MOUNT, 40W, 100-240VAC, 5700K	16LTGH990130	CROUSE-HINDS
	P6	PENDANT	60	T4A	LED LINEAR, PENDANT MOUNT, 60W, 100-240VAC, 5700K	16LTGH990131	CROUSE-HINDS
	W1	WALL	30	T4A	LED LINEAR, BRACKET MOUNT, 25 DEG. ANGLE, 30W, 100-240VAC, 5700K	16LTGB990114	CROUSE-HINDS
	W2	WALL	40	T4A	LED LINEAR, BRACKET MOUNT, 25 DEG. ANGLE, 40W, 100-240VAC, 5700K	16LTGB990115	CROUSE-HINDS
	W3	WALL	60	T4A	LED LINEAR, BRACKET MOUNT, 25 DEG. ANGLE, 60W, 100-240VAC, 5700K	16LTGB990116	CROUSE-HINDS
	W4	WALL	29	T4A	LED, CHAMP VMV, WALL MOUNT, 29W, 120-277VAC, 5000K, 3/4" HUB	16LTGW990098	CROUSE-HINDS
	W5	WALL	41	T4A	LED, CHAMP VMV, WALL MOUNT, 41W, 120-277VAC, 5000K, 3/4" HUB	16LTGW990099	CROUSE-HINDS
	W6	WALL	54	T4A	LED, CHAMP VMV, WALL MOUNT, 54W, 120-277VAC, 5000K, 3/4" HUB	16LTGW990100	CROUSE-HINDS
	F1	FLOODLIGHT	67	T4A	LED, CHAMP PFMVA FLOOD, YOKE MOUNT, 67W, 120-277VAC, 5000K, 3/4" HUB	16LTGF990089	CROUSE-HINDS
	F2	FLOODLIGHT	82	T4A	LED, CHAMP PFMVA FLOOD, YOKE MOUNT, 82W, 120-277VAC, 5000K, 3/4" HUB	16LTGF990090	CROUSE-HINDS
	F3	FLOODLIGHT	93	T4A	LED, CHAMP PFMVA FLOOD, YOKE MOUNT, 93W, 120-277VAC, 5000K, 3/4" HUB	16LTGF990091	CROUSE-HINDS
	M0	MONGOOSE	125	T4A	LED, MONGOOSE HEAD, STREETLIGHT, WIDE, HOLOPHANE, MGLED M3 40K MVOLT FT UN GRSD	16LTGP990026	DIALIGHT
	B1	OBSTRUCTION	100	T5	INDUSTRIAL FLASHING, L-810, RED LED OBSTRUCTION SAFE AREA	16LTGO990125	DIALIGHT
	B2	OBSTRUCTION	20	T4A	FLASHING DUAL (WHITE/RED) L-864/865 SAFE AREA	16LTGP990126	DIALIGHT
	B3	OBSTRUCTION	15	T4	CONTROLLER FOR L-864/L-810 RED LIGHTS, 120-240V AC, 50/60 Hz, SAFE AREA	16LTGP990127	DIALIGHT
	B4	OBSTRUCTION	86	T6	POWER SUPPLY PANEL L864/L865 SAFE AREA	16LTGP990128	DIALIGHT
	O1	OTHER	15	T4A	EXIT LIGHT LE-LRE	16LTGP990102	CROUSE-HINDS
	O2	OTHER	-	T4A	PHOTOCELL	16LTGO990107	DIALIGHT
	O3	OTHER	52	T4A	LIGHT FIXTURE, SAFESITE 180 DEG LED WALL MOUNT, GRAY, 6700 LUMENS 52 WATTS, 100-277 VAC, COOL WHITE 5000K	16LTGW990124	DIALIGHT

A	ISSUED FOR REVIEW	10-02-2023	FV	LNW	VV	VVA
REV	REVISION DESCRIPTION	DATE	DRAWN	CHECKED	APPROVED	PROJ APR
CONFIDENTIAL INFORMATION CONTAINED IN THIS DOCUMENT IS THE WORK PRODUCT OF ONE OR MORE LEGAL ENTITIES OF THE TECHNIP ENERGY GROUP. IT IS EXCLUDED FROM THE INFORMATION THAT IS SUBJECT TO THE CONFIDENTIALITY AGREEMENTS WITH AND/OR ITS CLIENT. USE OF THIS INFORMATION IS RESTRICTED IN ACCORDANCE WITH CONDITIONS SPECIFIED IN THE CONTRACT. TECHNIP ENERGIES NV AND ITS AFFILIATES DISCLAIM ANY AND ALL LIABILITIES FOR ANY CHANGES OR MODIFICATIONS TO THIS DOCUMENT WHICH ARE MADE BY ANY PERSON OTHER THAN THE ENTITY THAT ISSUED THE DOCUMENT UNDER THE APPLICABLE CLIENT CONTRACT.						
CLIENT COMMONWEALTH LNG LLC COMMONWEALTH LNG CAMERON PARISH, LOUISIANA						
TITLE ELECTRICAL LIGHTING INSTALLATION DETAILS FIXTURE SCHEDULE FOR NON-HAZARDOUS AREA CLASSIFICATION "L62"						
DRAWN BY  TEN TECHNIP ENERGY  COMMONWEALTH LNG						
SCALE	CLIENT NUMBER	DRAWN BY				
		FV				
PROJECT NUMBER	TECHNIP ENERGIES NUMBER	REVISION				
078051C	078051C-000-STD-1683-0001-66	A				