



Toase-eh Park Sanati Gohar Ofogh  
Petrochemical Co.  
**CONCEPTUAL, BASIC and DETAIL DESIGN  
ENGINEERING OF STYRENE PARK OFFSITE**



Document Title: Local Panel and Junction Box Wiring Diagrams

Document No.: EI027-HSE-VD – IN– DIG– 004- R0

Rev. R0

Page 1 of 20

# STYRENE PARK OFFSITE

**Document Title:**

**Local Panel and Junction Box Wiring Diagrams**

Rev.	Issued Date	DESCRIPTION	PREPARED	CHECKED	APPROVED
R0	11-09-2024	IFA	F.SH	M.O	A.M



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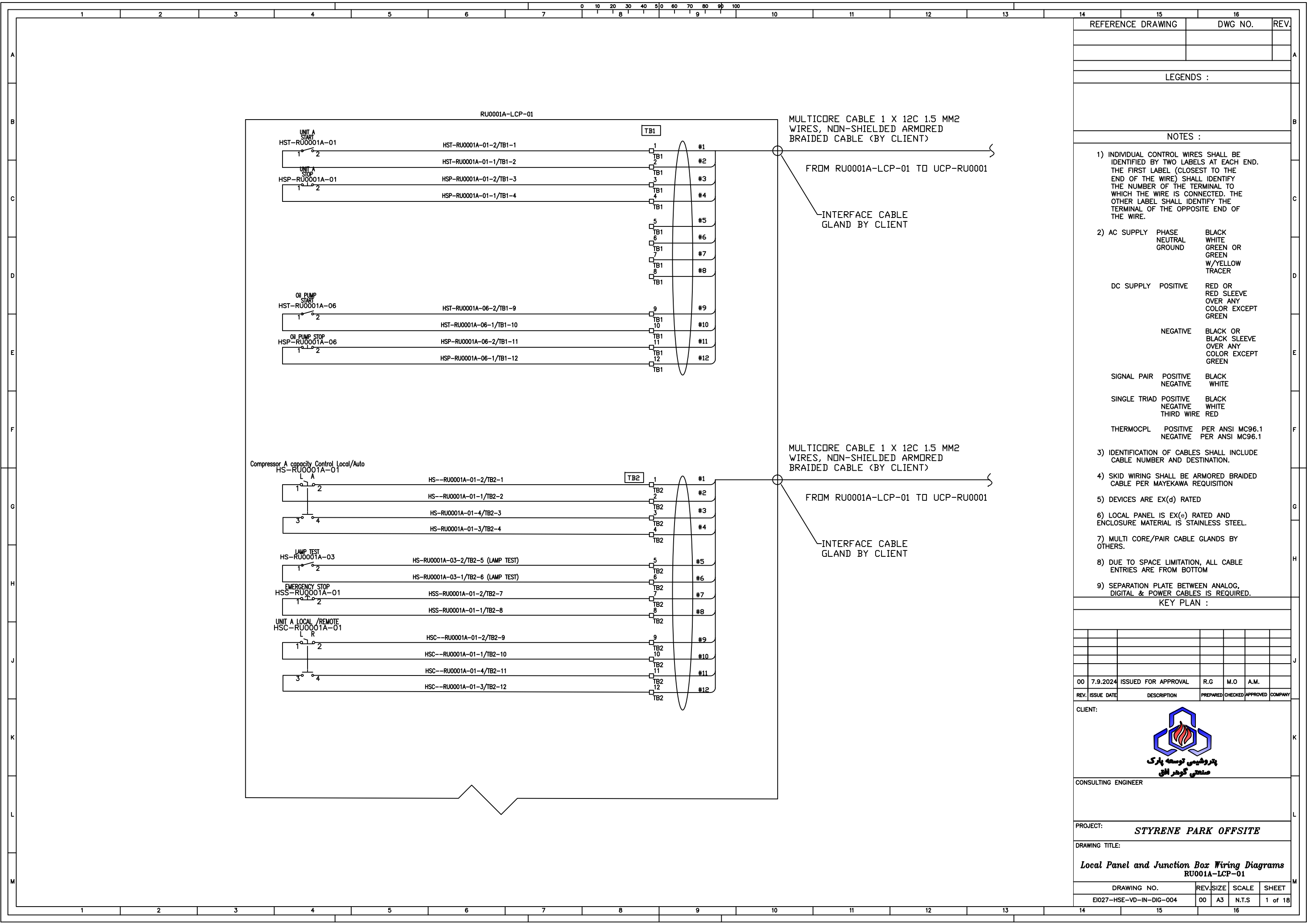
Document No.: EI027-HSE-VD – IN– DIG– 004- R0

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**REVISION RECORD SHEET**

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2	X							42							
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REFERENCE DRAWING	DWG NO.	REV.

LEGENDS :

- NOTES :
- INDIVIDUAL CONTROL WIRES SHALL BE IDENTIFIED BY TWO LABELS AT EACH END. THE FIRST LABEL (CLOSEST TO THE END OF THE WIRE) SHALL IDENTIFY THE NUMBER OF THE TERMINAL TO WHICH THE WIRE IS CONNECTED. THE OTHER LABEL SHALL IDENTIFY THE TERMINAL OF THE OPPOSITE END OF THE WIRE.
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  - IDENTIFICATION OF CABLES SHALL INCLUDE CABLE NUMBER AND DESTINATION.
  - SKID WIRING SHALL BE ARMORED BRAIDED CABLE PER MAYEKAWA REQUISITION
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  - LOCAL PANEL IS EX(e) RATED AND ENCLOSURE MATERIAL IS STAINLESS STEEL.
  - MULTI CORE/PAIR CABLE GLANDS BY OTHERS.
  - DUE TO SPACE LIMITATION, ALL CABLE ENTRIES ARE FROM BOTTOM
  - SEPARATION PLATE BETWEEN ANALOG, DIGITAL & POWER CABLES IS REQUIRED.

KEY PLAN :


00	7.9.2024	ISSUED FOR APPROVAL	R.G	M.O	A.M.	
REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY

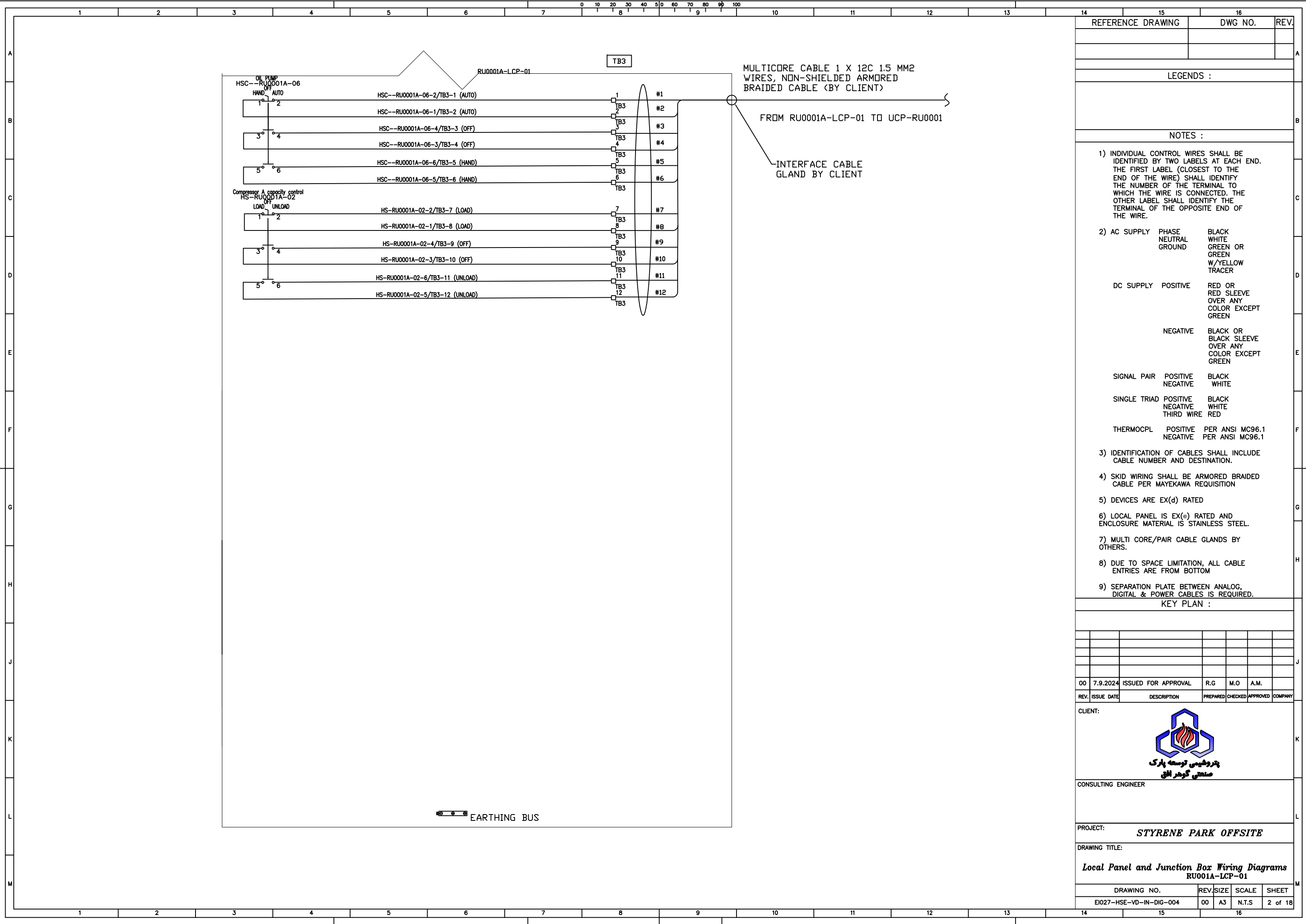


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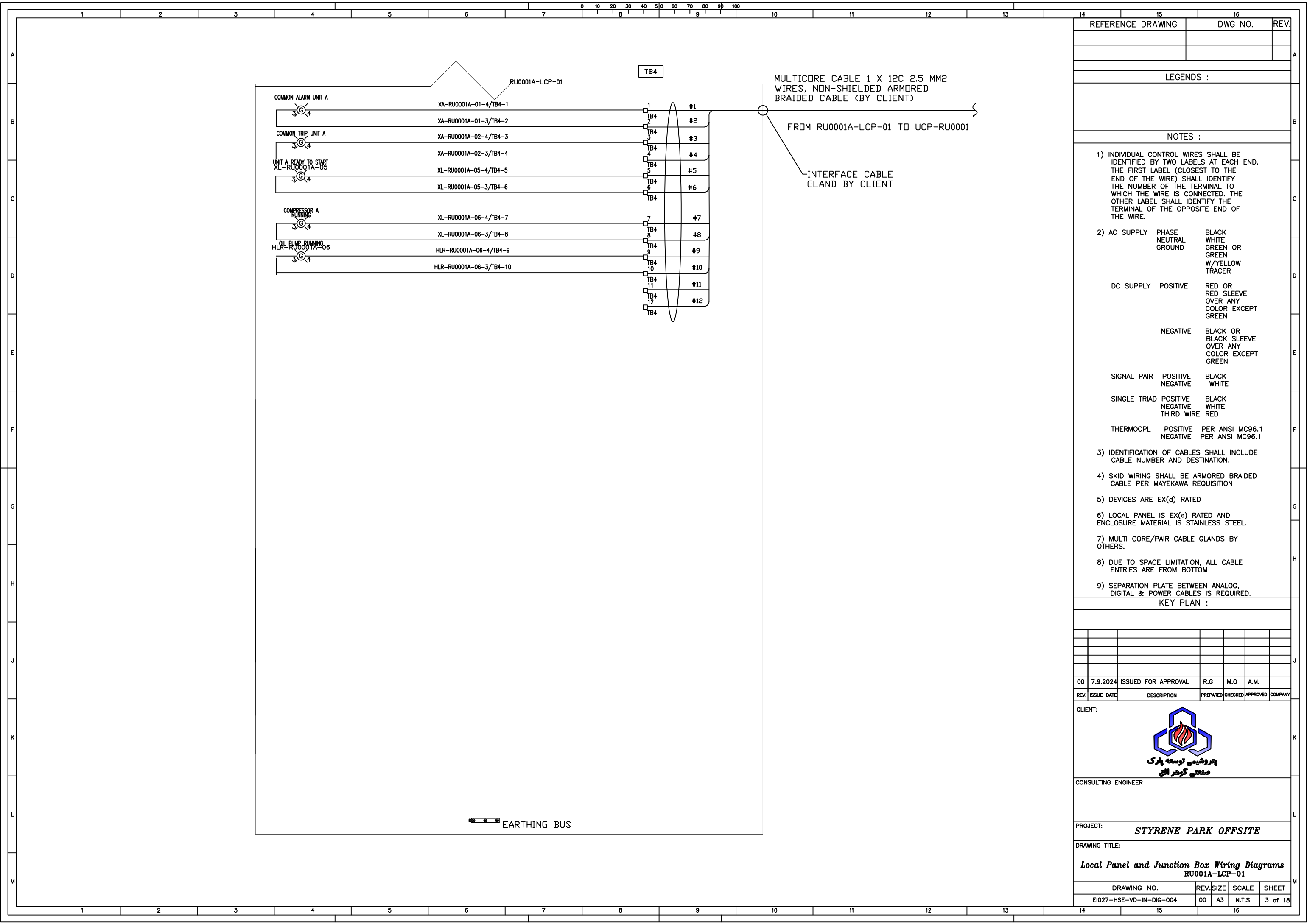
PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE:  
**Local Panel and Junction Box Wiring Diagrams  
RU0001A-LCP-01**

DRAWING NO.	REV.	SCALE	SHEET
EI027-HSE-VD-IN-DIG-004	00	A3 N.T.S	1 of 18



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PHASE	BLACK
NEUTRAL	WHITE
GROUND	GREEN OR GREEN W/YELLOW TRACER

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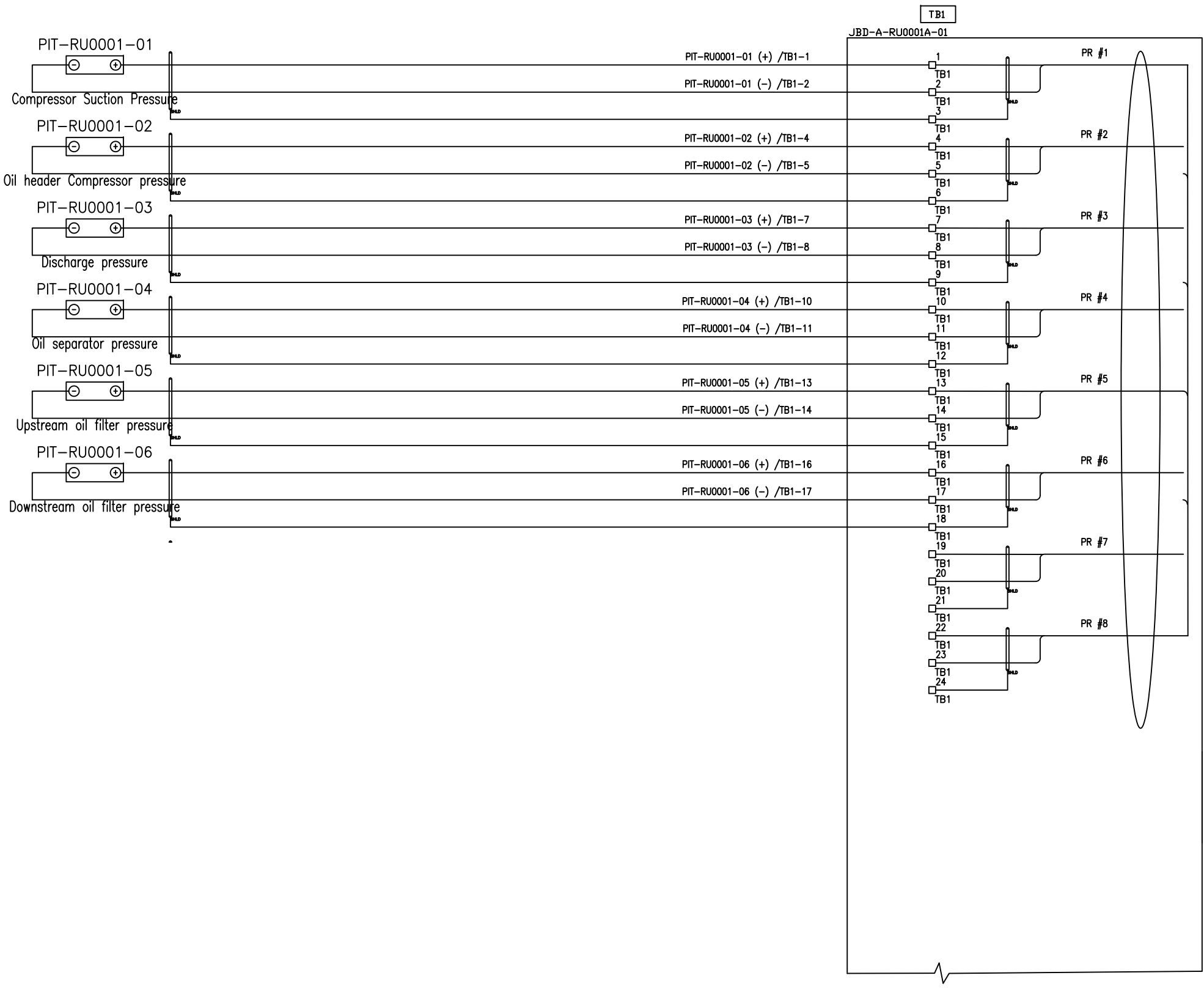
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صنعتی گوهر افق

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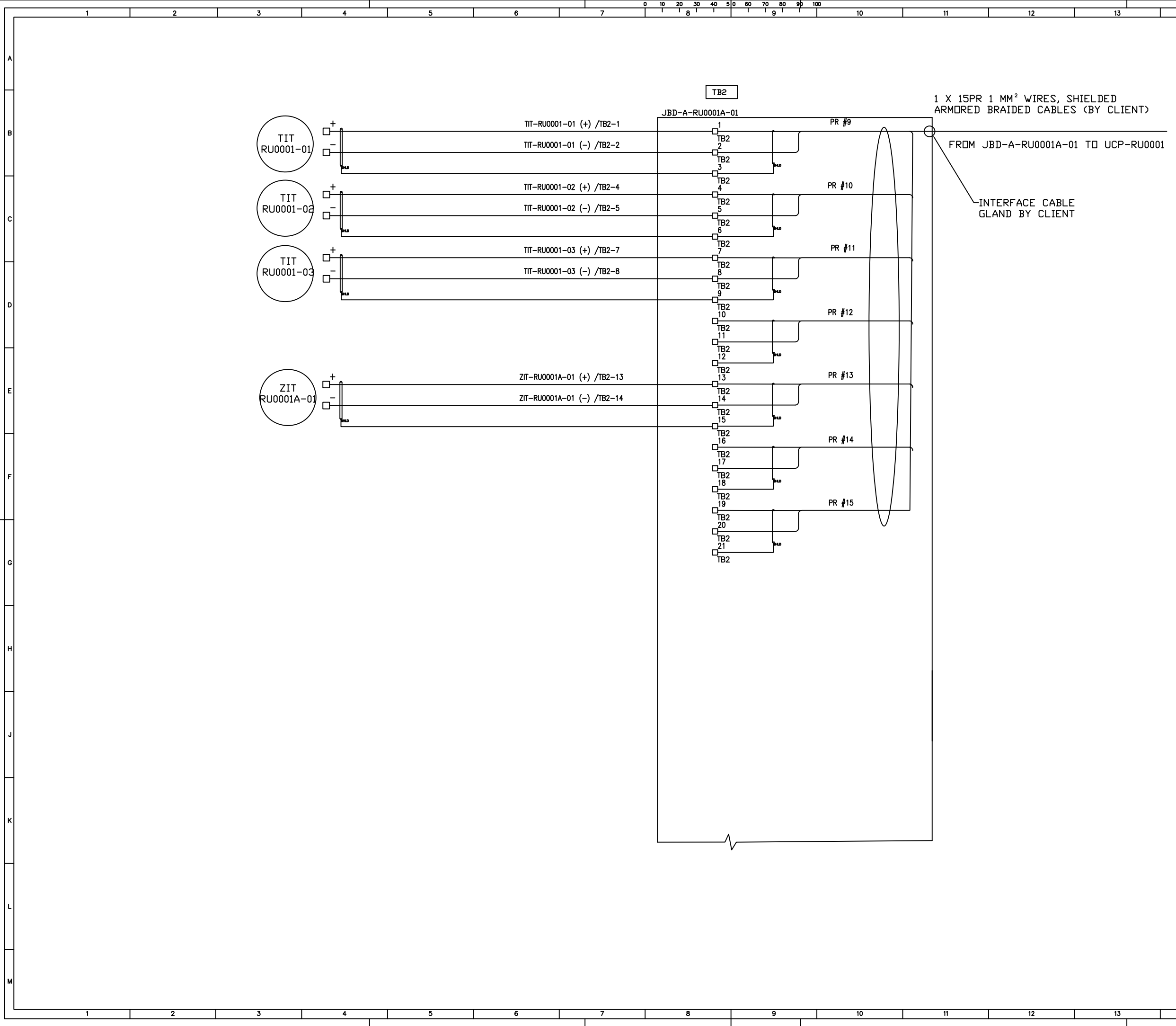



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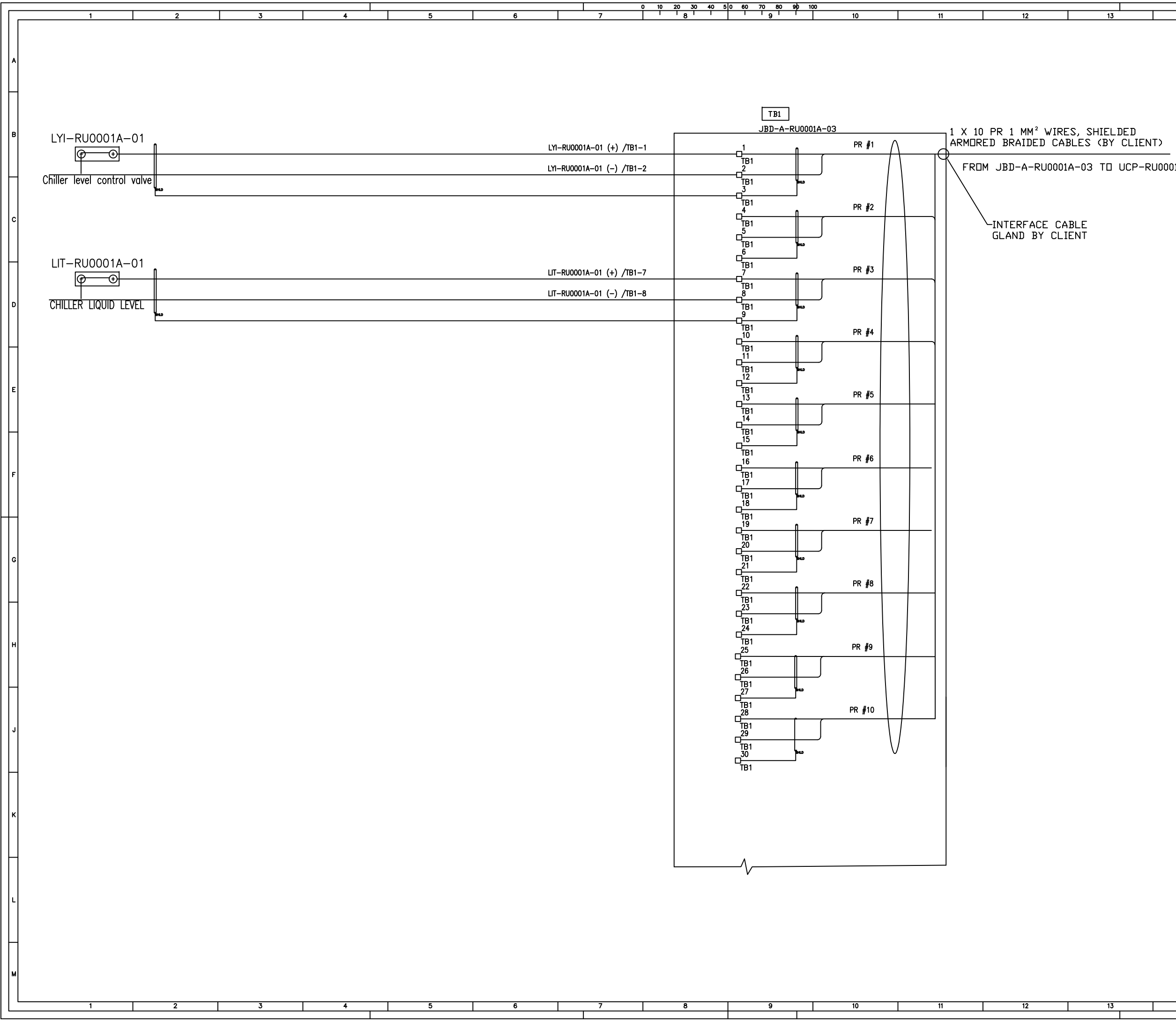
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**JBD-A-RU0001A-01**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
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E027-HSE-VD-IN-DIG-004		00	A3 N.T.S	5 of 18												



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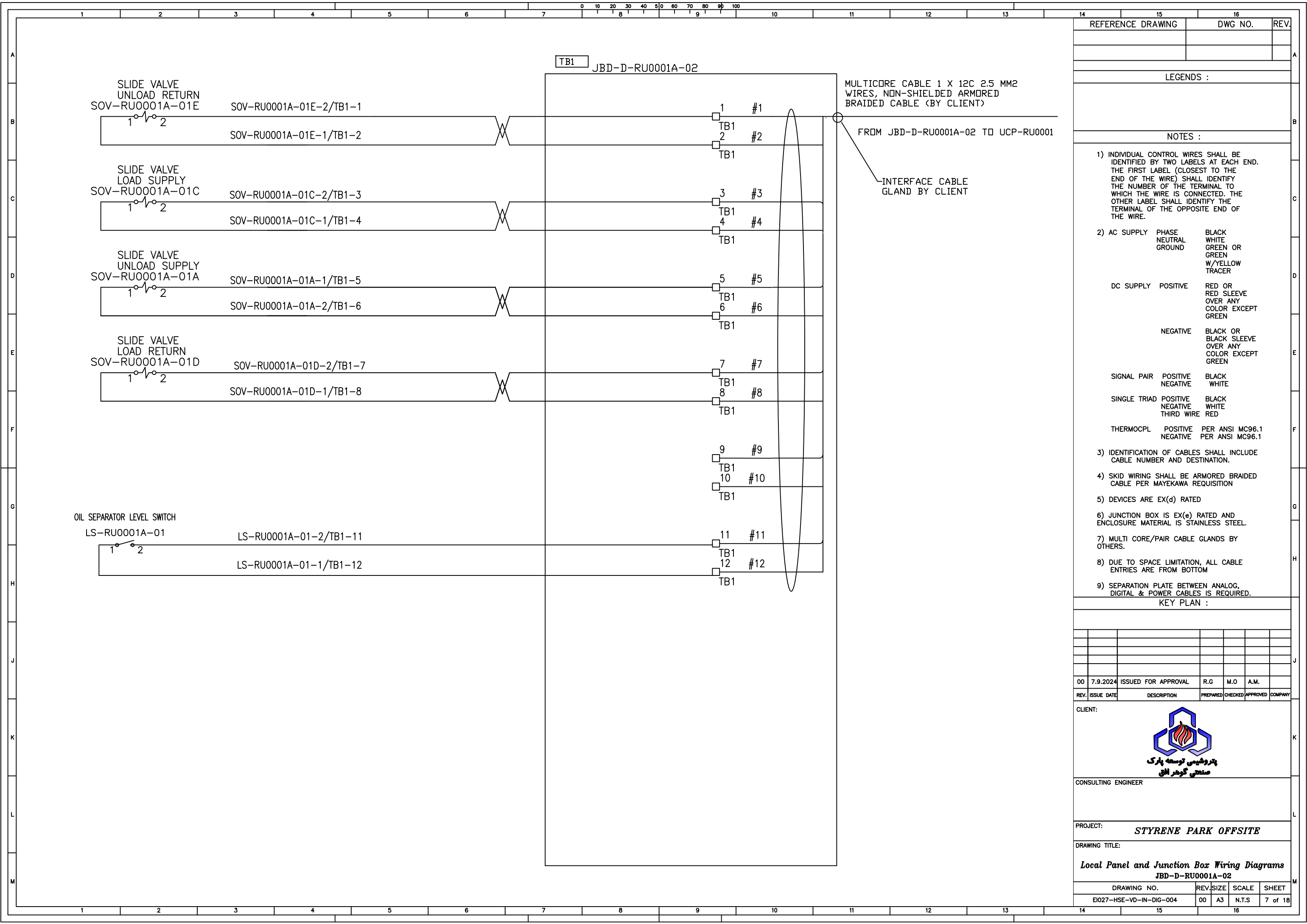


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PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE:  
**Local Panel and Junction Box Wiring Diagrams**  
**JBD-A-RU0001A-03**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
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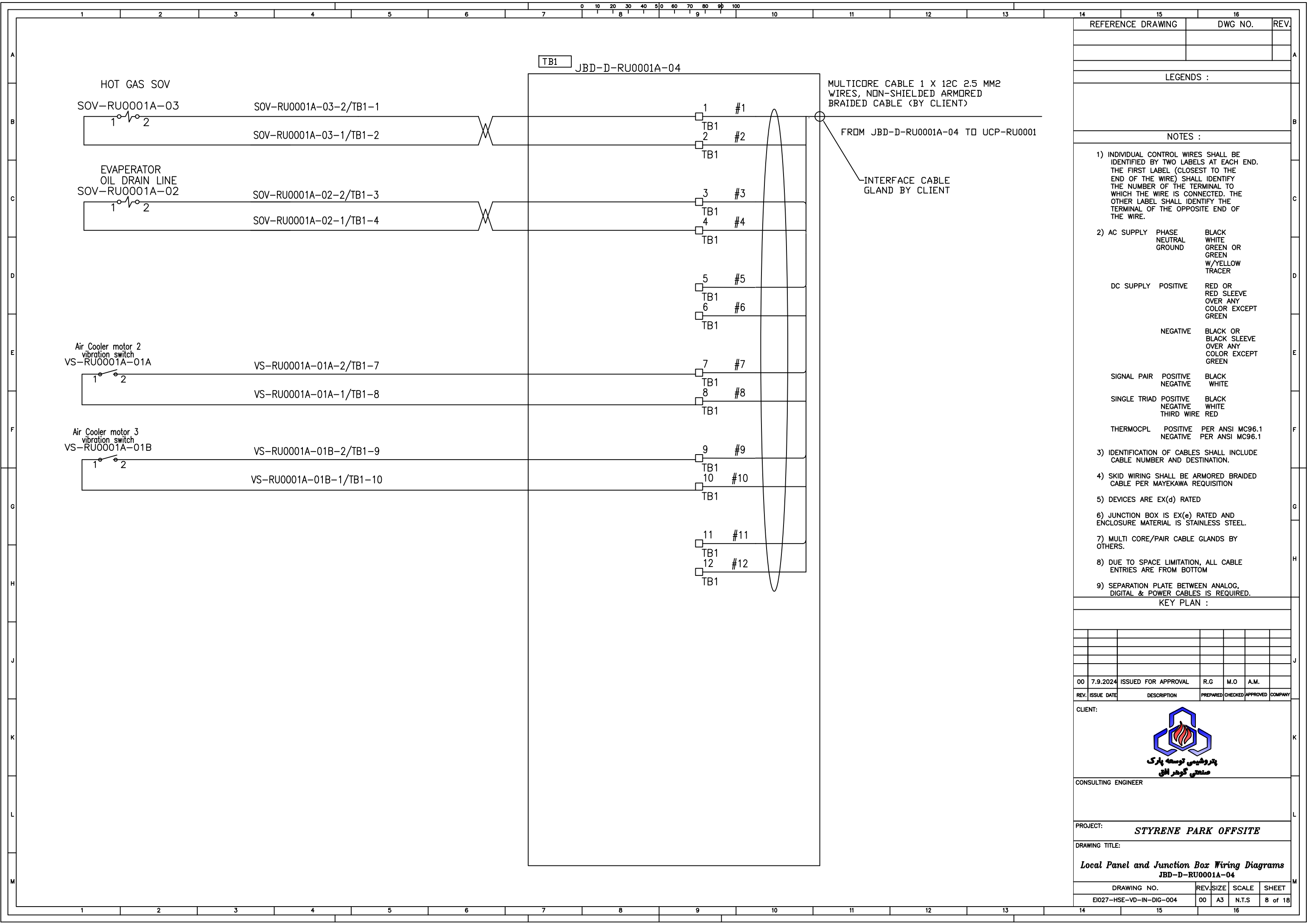
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**Local Panel and Junction Box Wiring Diagrams**  
**JBD-D-RU0001A-02**

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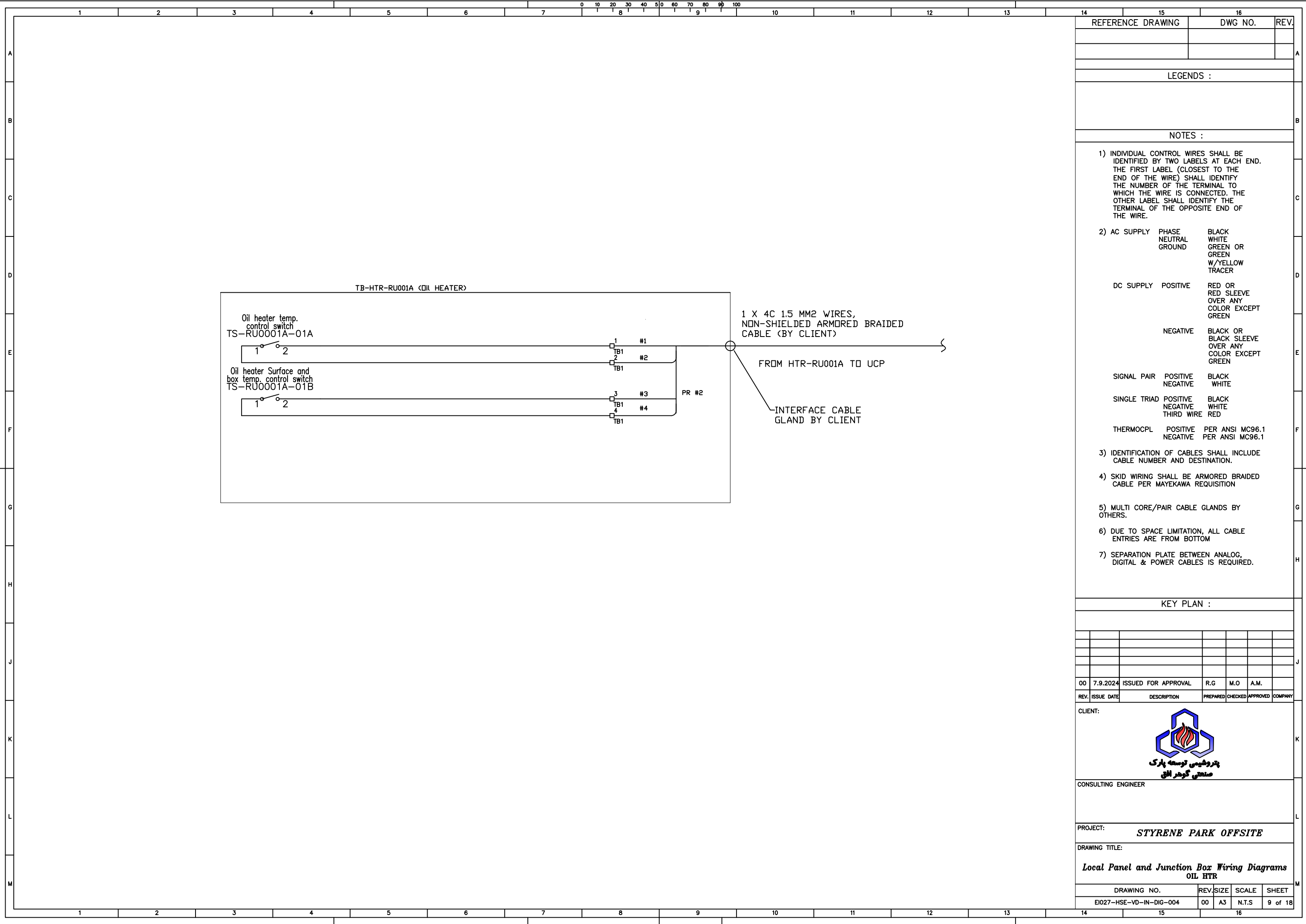
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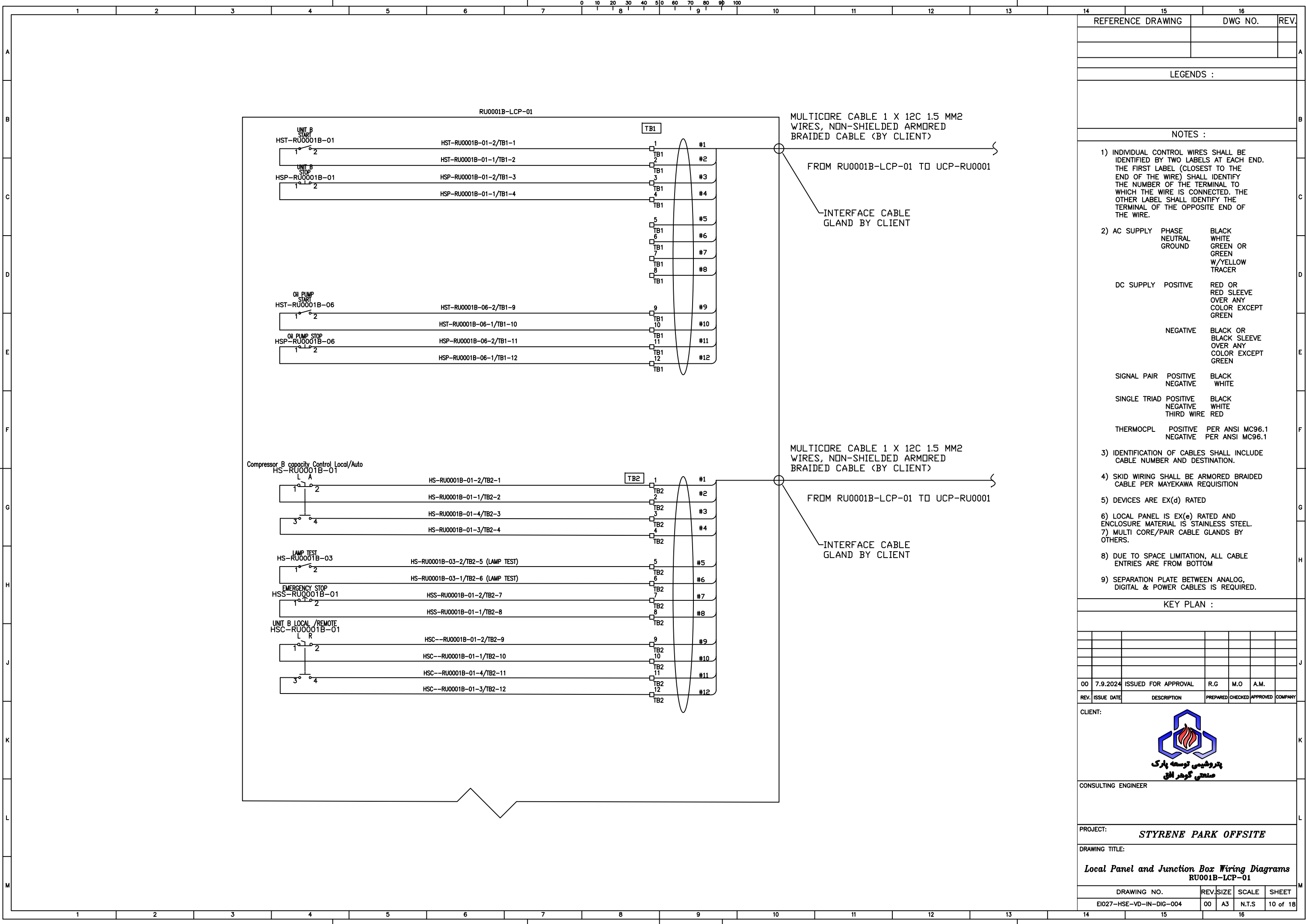
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KEY PLAN :


00	7.9.2024	ISSUED FOR APPROVAL	R.G	M.O	A.M.	
REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY

CLIENT:



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صنعتی گوهر ابق

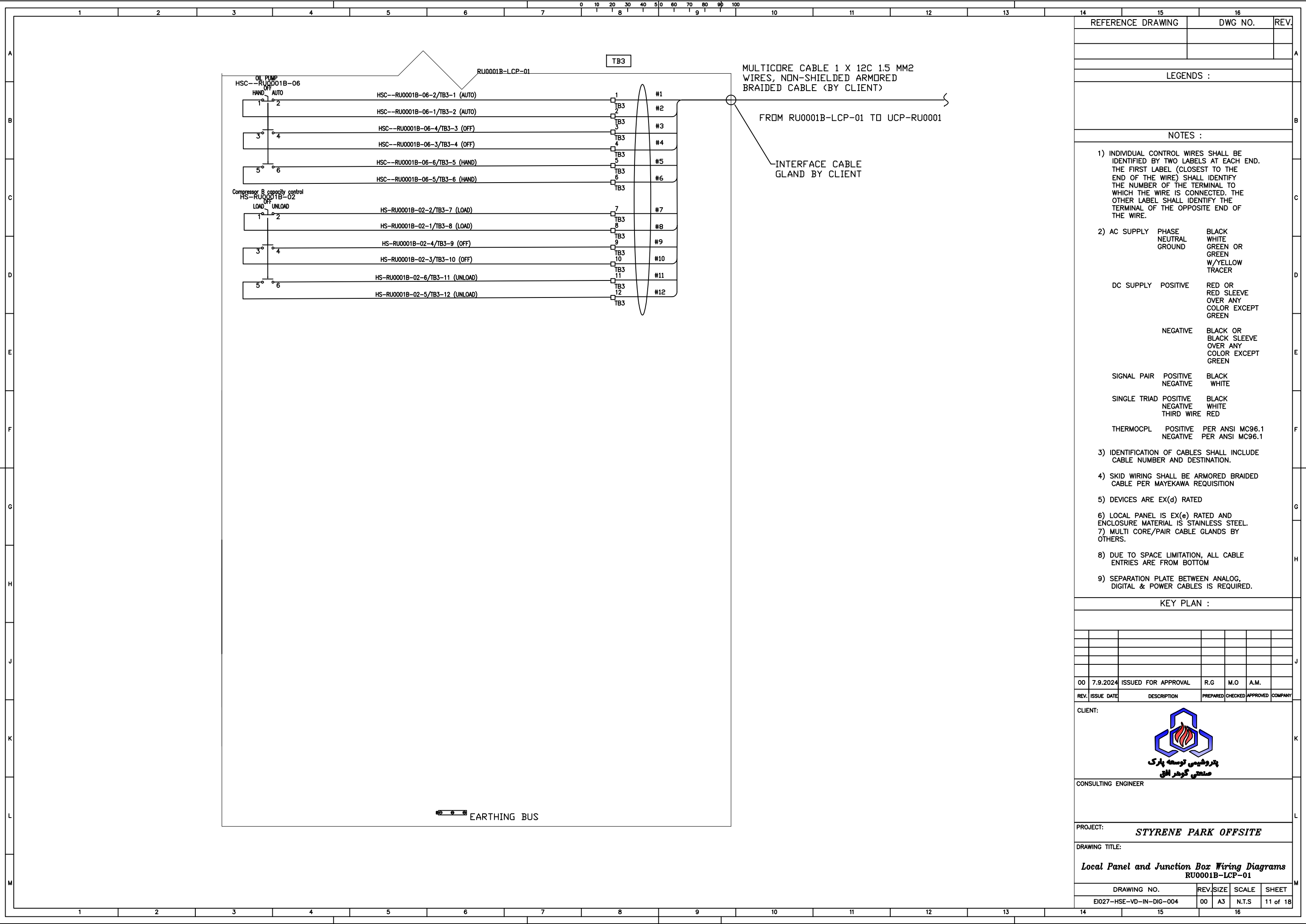
CONSULTING ENGINEER

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PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE: **Local Panel and Junction Box Wiring Diagrams RU0001B-LCP-01**

DRAWING NO.	REV.	SCALE	SHEET
EI027-HSE-VD-IN-DIG-004	00	A3 N.T.S	10 of 18



REFERENCE DRAWING	DWG NO.	REV.
LEGENDS :		
NOTES :		
<p>1) INDIVIDUAL CONTROL WIRES SHALL BE IDENTIFIED BY TWO LABELS AT EACH END. THE FIRST LABEL (CLOSEST TO THE END OF THE WIRE) SHALL IDENTIFY THE NUMBER OF THE TERMINAL TO WHICH THE WIRE IS CONNECTED. THE OTHER LABEL SHALL IDENTIFY THE TERMINAL OF THE OPPOSITE END OF THE WIRE.</p> <p>2) AC SUPPLY PHASE  NEUTRAL  GROUND  DC SUPPLY POSITIVE  NEGATIVE  SIGNAL PAIR POSITIVE  NEGATIVE  SINGLE TRIAD POSITIVE  NEGATIVE  THIRD WIRE  THERMOCP L POSITIVE  NEGATIVE</p> <p>BLACK  WHITE  GREEN OR  GREEN  W/YELLOW  TRACER  RED OR  RED SLEEVE  OVER ANY  COLOR EXCEPT  GREEN  BLACK OR  BLACK SLEEVE  OVER ANY  COLOR EXCEPT  GREEN  BLACK  WHITE  PER ANSI MC96.1  PER ANSI MC96.1</p>		
<p>3) IDENTIFICATION OF CABLES SHALL INCLUDE CABLE NUMBER AND DESTINATION.</p> <p>4) SKID WIRING SHALL BE ARMORED BRAIDED CABLE PER MAYEKAWA REQUISITION</p> <p>5) DEVICES ARE EX(d) RATED</p> <p>6) LOCAL PANEL IS EX(e) RATED AND ENCLOSURE MATERIAL IS STAINLESS STEEL.</p> <p>7) MULTI CORE/PAIR CABLE GLANDS BY OTHERS.</p> <p>8) DUE TO SPACE LIMITATION, ALL CABLE ENTRIES ARE FROM BOTTOM</p> <p>9) SEPARATION PLATE BETWEEN ANALOG, DIGITAL &amp; POWER CABLES IS REQUIRED.</p>		

KEY PLAN :					

REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY
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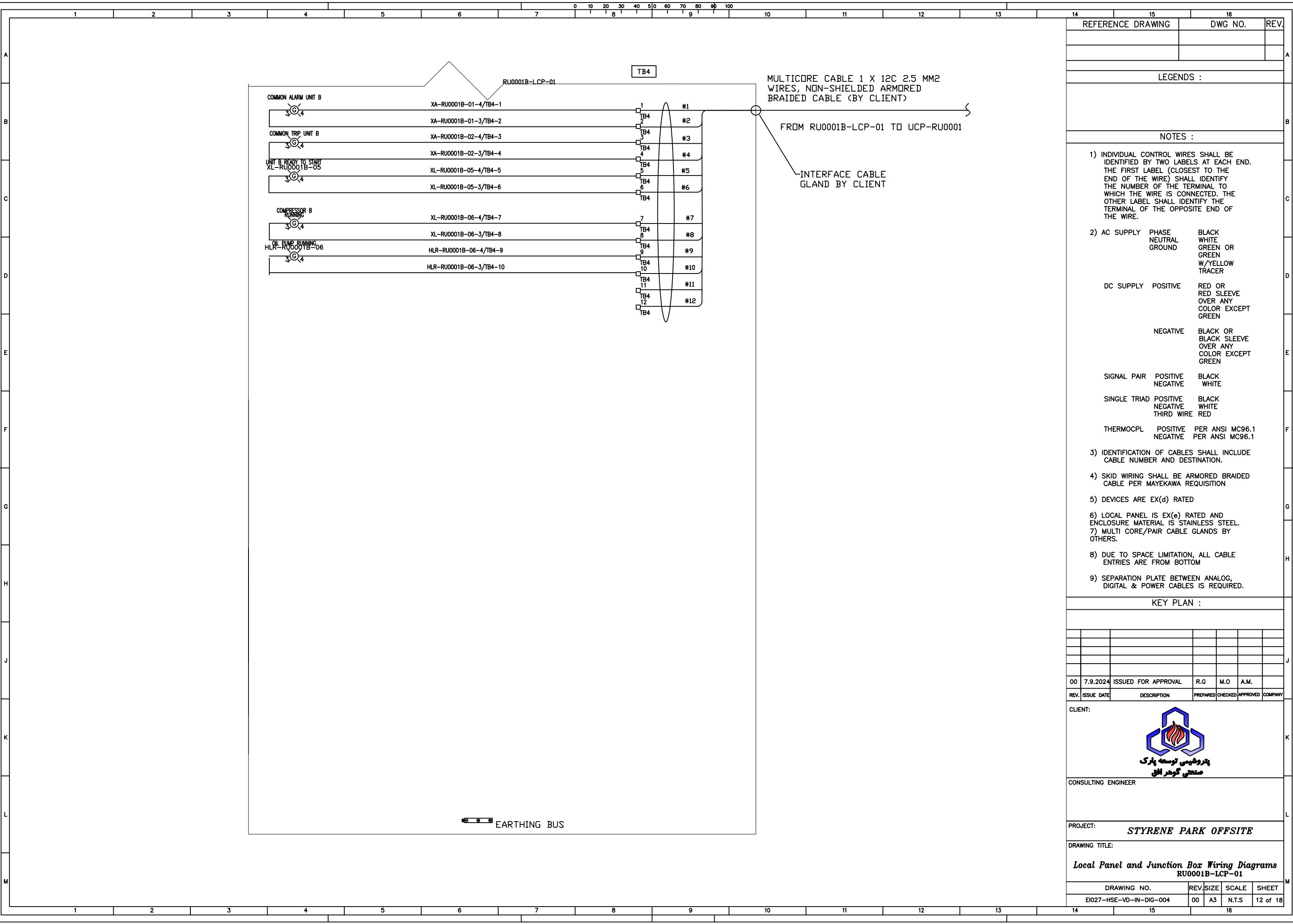


CONSULTING ENGINEER

PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE:  
**Local Panel and Junction Box Wiring Diagrams  
RU0001B-LCP-01**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
E027-HSE-YD-IN-DIG-004	00	A3	N.T.S	11 of 18



REFERENCE DRAWING	DWG NO.	REV.

LEGENDS :

- NOTES :
- INDIVIDUAL CONTROL WIRES SHALL BE IDENTIFIED BY TWO LABELS AT EACH END. THE FIRST LABEL (CLOSEST TO THE END OF THE WIRE) SHALL IDENTIFY THE NUMBER OF THE TERMINAL TO WHICH THE WIRE IS CONNECTED. THE OTHER LABEL SHALL IDENTIFY THE TERMINAL OF THE OPPOSITE END OF THE WIRE.
  - AC SUPPLY PHASE: BLACK, WHITE, GREEN OR W/YELLOW TRACER  
 NEUTRAL: GREEN  
 GROUND: W/YELLOW TRACER  
 DC SUPPLY POSITIVE: RED OR RED SLEEVE OVER ANY COLOR EXCEPT GREEN  
 NEGATIVE: BLACK OR BLACK SLEEVE OVER ANY COLOR EXCEPT GREEN  
 SIGNAL PAIR POSITIVE: BLACK, NEGATIVE: WHITE  
 SINGLE TRIAD POSITIVE: BLACK, NEGATIVE: WHITE, THIRD WIRE: RED  
 THERMOCP PL POSITIVE: PER ANSI MC96.1, NEGATIVE: PER ANSI MC96.1
  - IDENTIFICATION OF CABLES SHALL INCLUDE CABLE NUMBER AND DESTINATION.
  - SKID WIRING SHALL BE ARMORED BRAIDED CABLE PER MAYEKAWA REQUISITION
  - DEVICES ARE EX(d) RATED
  - LOCAL PANEL IS EX(e) RATED AND ENCLOSURE MATERIAL IS STAINLESS STEEL.
  - MULTI CORE/PAIR CABLE GLANDS BY OTHERS.
  - DUE TO SPACE LIMITATION, ALL CABLE ENTRIES ARE FROM BOTTOM
  - SEPARATION PLATE BETWEEN ANALOG, DIGITAL & POWER CABLES IS REQUIRED.

KEY PLAN :


00	7.9.2024	ISSUED FOR APPROVAL	R.G	M.O	A.M.	
REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY

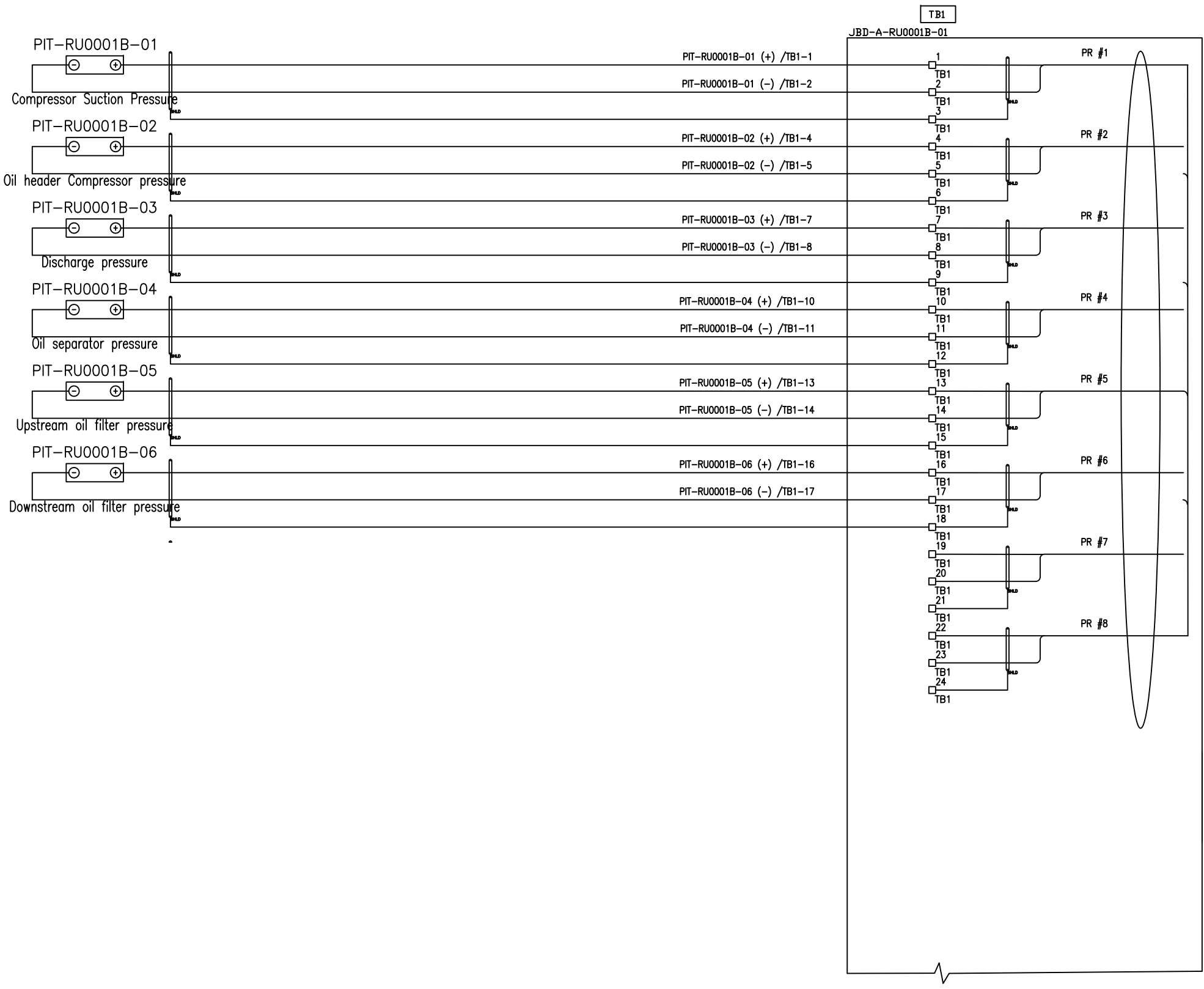


CONSULTING ENGINEER

PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE:  
**Local Panel and Junction Box Wiring Diagrams  
RU0001B-LCP-01**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-IN-DIG-004	00	A3	N.T.S	12 of 18



14	15	16
REFERENCE DRAWING	DWG NO.	REV.

LEGENDS :

NOTES :

- INDIVIDUAL CONTROL WIRES SHALL BE IDENTIFIED BY TWO LABELS AT EACH END. THE FIRST LABEL (CLOSEST TO THE END OF THE WIRE) SHALL IDENTIFY THE NUMBER OF THE TERMINAL TO WHICH THE WIRE IS CONNECTED. THE OTHER LABEL SHALL IDENTIFY THE TERMINAL OF THE OPPOSITE END OF THE WIRE.
- AC SUPPLY PHASE: BLACK, WHITE, GREEN OR W/YELLOW TRACER  
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 GROUND: W/YELLOW TRACER  
 DC SUPPLY POSITIVE: RED OR RED SLEEVE OVER ANY COLOR EXCEPT GREEN  
 NEGATIVE: BLACK OR BLACK SLEEVE OVER ANY COLOR EXCEPT GREEN  
 SIGNAL PAIR POSITIVE: BLACK, NEGATIVE: WHITE  
 SINGLE TRIAD POSITIVE: BLACK, NEGATIVE: WHITE, THIRD WIRE: RED  
 THERMOCP L POSITIVE: PER ANSI MC96.1, NEGATIVE: PER ANSI MC96.1
- IDENTIFICATION OF CABLES SHALL INCLUDE CABLE NUMBER AND DESTINATION.
- SKID WIRING SHALL BE ARMORED BRAIDED CABLE PER MAYEKAWA REQUISITION
- DEVICES ARE EX(i)a RATED
- JUNCTION BOX IS EX(e) RATED AND ENCLOSURE MATERIAL IS STAINLESS STEEL.
- MULTI CORE/PAIR CABLE GLANDS BY OTHERS.
- DUE TO SPACE LIMITATION, ALL CABLE ENTRIES ARE FROM BOTTOM
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REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY

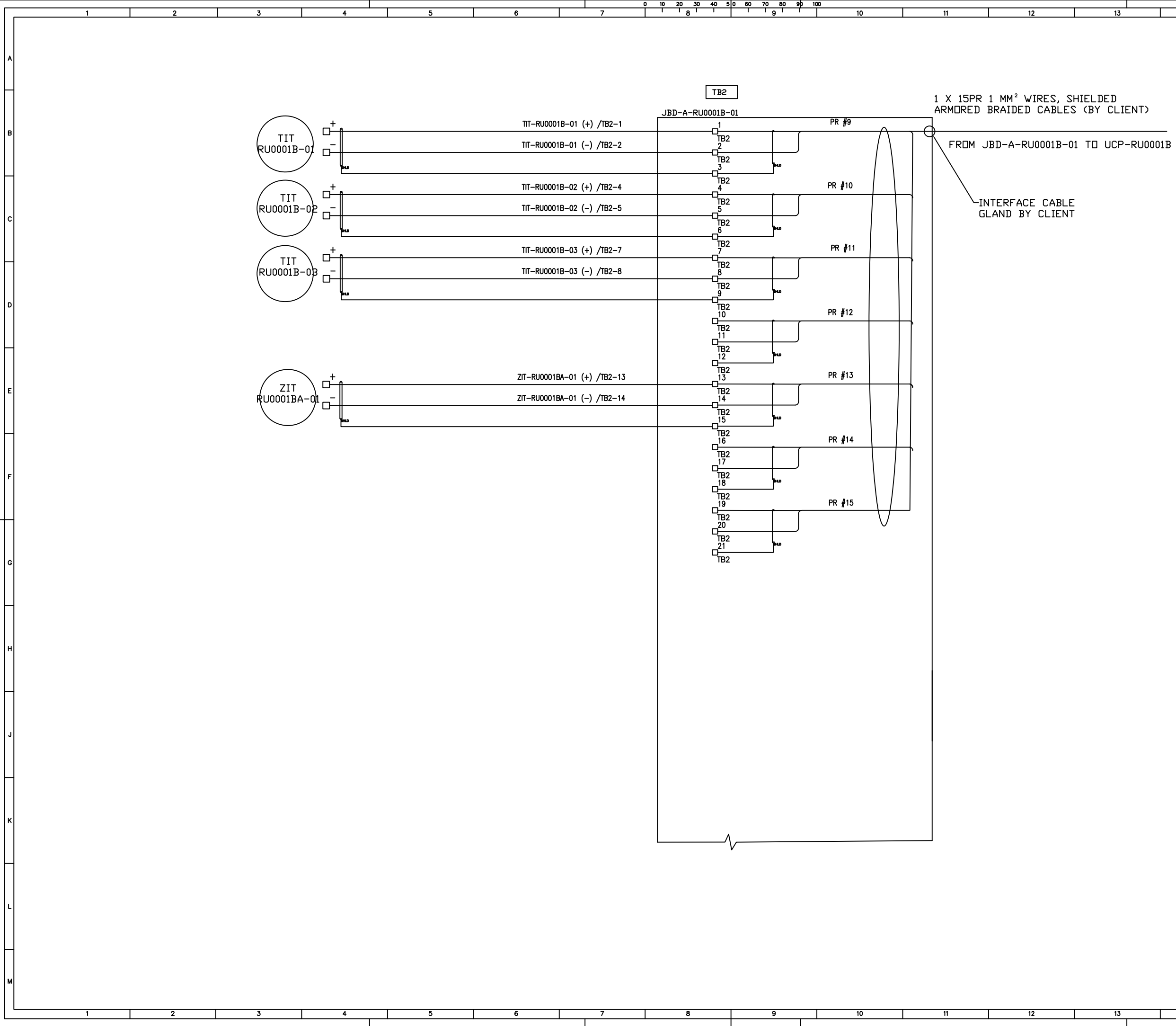
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CONSULTING ENGINEER

PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE: **Local Panel and Junction Box Wiring Diagrams**  
**JBD-A-RU0001A-01**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-IN-DIG-004	00	A3	N.T.S	13 of 18



REFERENCE DRAWING	DWG NO.	REV.

LEGENDS :

- NOTES :
- INDIVIDUAL CONTROL WIRES SHALL BE IDENTIFIED BY TWO LABELS AT EACH END. THE FIRST LABEL (CLOSEST TO THE END OF THE WIRE) SHALL IDENTIFY THE NUMBER OF THE TERMINAL TO WHICH THE WIRE IS CONNECTED. THE OTHER LABEL SHALL IDENTIFY THE TERMINAL OF THE OPPOSITE END OF THE WIRE.
  - AC SUPPLY PHASE NEUTRAL GROUND BLACK WHITE GREEN OR GREEN W/YELLOW TRACER
  - DC SUPPLY POSITIVE RED OR RED SLEEVE OVER ANY COLOR EXCEPT GREEN
  - NEGATIVE BLACK OR BLACK SLEEVE OVER ANY COLOR EXCEPT GREEN
  - SIGNAL PAIR POSITIVE BLACK NEGATIVE WHITE
  - SINGLE TRIAD POSITIVE BLACK NEGATIVE WHITE THIRD WIRE RED
  - THERMOCP L POSITIVE PER ANSI MC96.1 NEGATIVE PER ANSI MC96.1
  - IDENTIFICATION OF CABLES SHALL INCLUDE CABLE NUMBER AND DESTINATION.
  - SKID WIRING SHALL BE ARMORED BRAIDED CABLE PER MAYEKAWA REQUISITION
  - DEVICES ARE EX(i)a RATED
  - JUNCTION BOX IS EX(e) RATED AND ENCLOSURE MATERIAL IS STAINLESS STEEL.
  - MULTI CORE/PAIR CABLE GLANDS BY OTHERS.
  - DUE TO SPACE LIMITATION, ALL CABLE ENTRIES ARE FROM BOTTOM
  - SEPARATION PLATE BETWEEN ANALOG, DIGITAL & POWER CABLES IS REQUIRED.

KEY PLAN :


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REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY

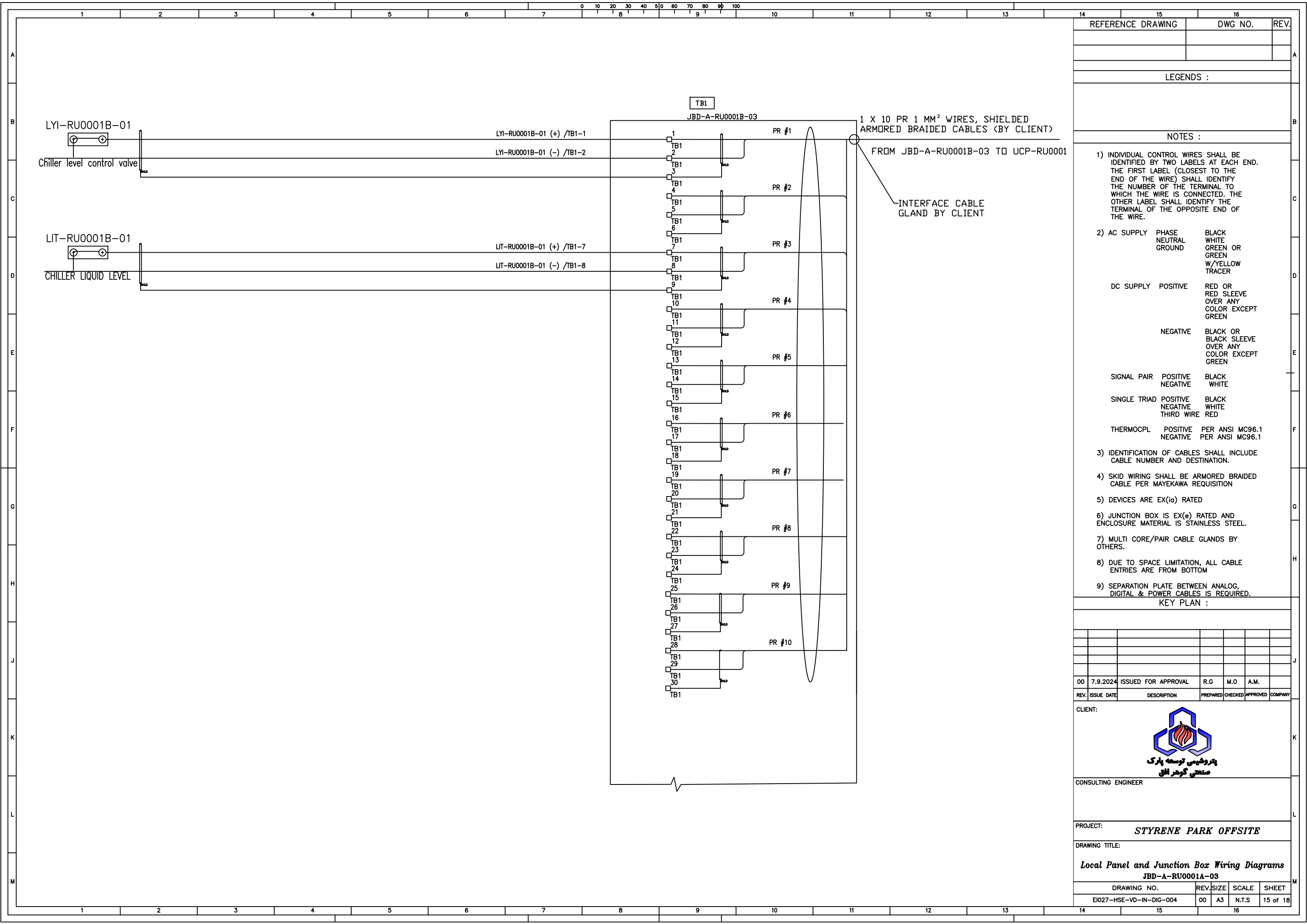


CONSULTING ENGINEER

PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE:  
**Local Panel and Junction Box Wiring Diagrams  
JBD-A-RU0001A-01**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-IN-DIG-004	00	A3	N.T.S	14 of 18



REFERENCE DRAWING	DWG NO.	REV.

LEGENDS :

NOTES :

- 1) INDIVIDUAL CONTROL WIRES SHALL BE IDENTIFIED BY TWO LABELS AT EACH END. THE FIRST LABEL (CLOSEST TO THE END OF THE WIRE) SHALL IDENTIFY THE NUMBER OF THE TERMINAL TO WHICH THE WIRE IS CONNECTED. THE OTHER LABEL SHALL IDENTIFY THE TERMINAL OF THE OPPOSITE END OF THE WIRE.
- 2) AC SUPPLY
 

PHASE	BLACK
NEUTRAL	WHITE
GROUND	GREEN OR GREEN W/YELLOW TRACER

DC SUPPLY POSITIVE	RED OR RED SLEEVE OVER ANY COLOR EXCEPT GREEN
NEGATIVE	BLACK OR BLACK SLEEVE OVER ANY COLOR EXCEPT GREEN

SIGNAL PAIR POSITIVE	BLACK
NEGATIVE	WHITE

SINGLE TRIAD POSITIVE	BLACK
NEGATIVE	WHITE
THIRD WIRE	RED

THERMOCP	POSITIVE PER ANSI MC96.1
NEGATIVE	PER ANSI MC96.1
- 3) IDENTIFICATION OF CABLES SHALL INCLUDE CABLE NUMBER AND DESTINATION.
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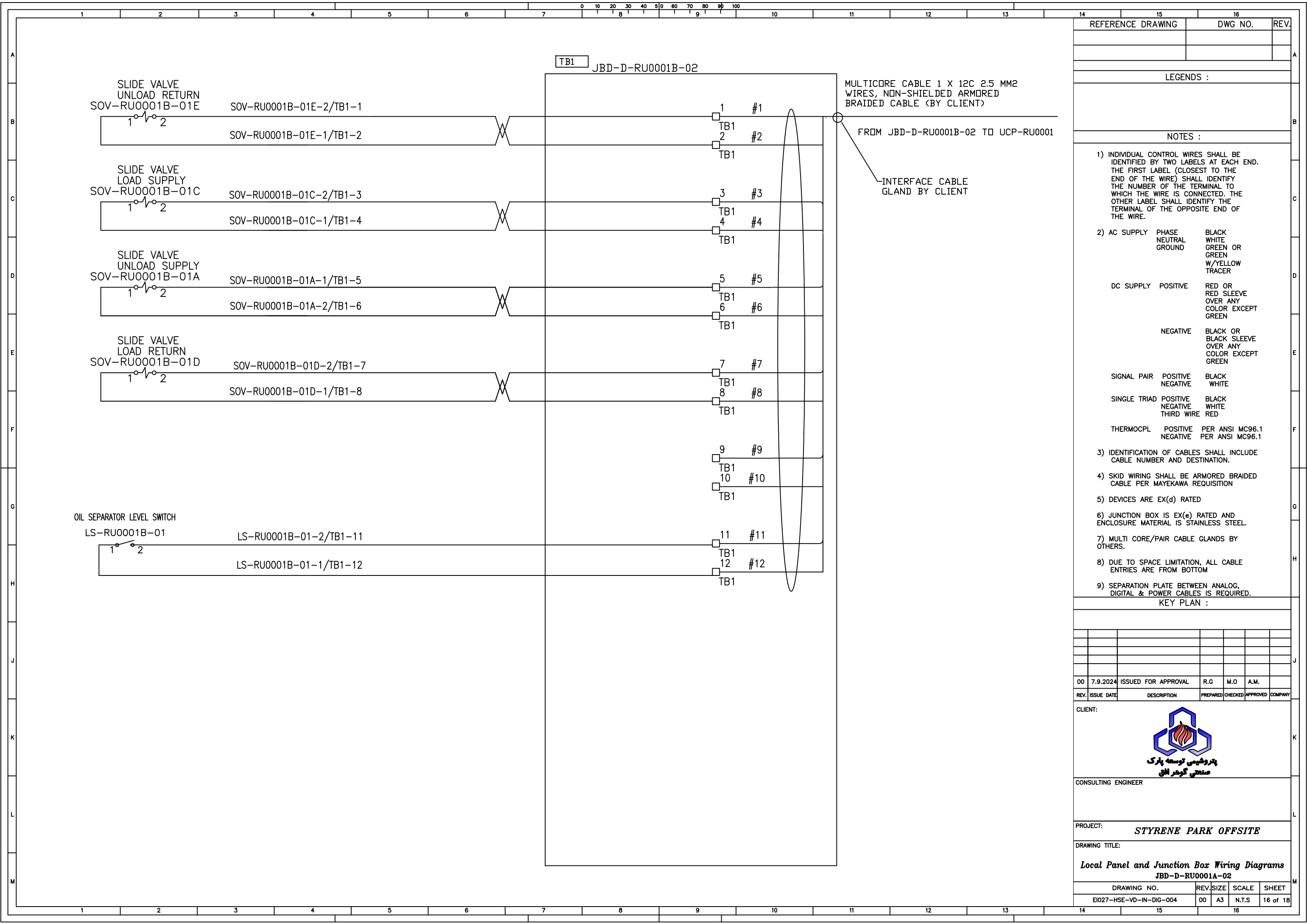
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PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE: **Local Panel and Junction Box Wiring Diagrams**  
**JBD-A-RU0001A-03**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-IN-DIG-004	00	A3	N.T.S	15 of 18



15	16	REV.
REFERENCE DRAWING	DWG NO.	
LEGENDS :		
NOTES :		

- 1) INDIVIDUAL CONTROL WIRES SHALL BE IDENTIFIED BY TWO LABELS AT EACH END. THE FIRST LABEL (CLOSEST TO THE END OF THE WIRE) SHALL IDENTIFY THE NUMBER OF THE TERMINAL TO WHICH THE WIRE IS CONNECTED. THE OTHER LABEL SHALL IDENTIFY THE TERMINAL OF THE OPPOSITE END OF THE WIRE.
- 2) AC SUPPLY PHASE NEUTRAL GROUND  
 DC SUPPLY POSITIVE  
 NEGATIVE  
 SIGNAL PAIR POSITIVE NEGATIVE  
 SINGLE TRIAD POSITIVE NEGATIVE THIRD WIRE  
 THERMOCP L POSITIVE NEGATIVE
- 3) IDENTIFICATION OF CABLES SHALL INCLUDE CABLE NUMBER AND DESTINATION.
- 4) SKID WIRING SHALL BE ARMORED BRAIDED CABLE PER MAYEKAWA REQUISITION
- 5) DEVICES ARE EX(d) RATED
- 6) JUNCTION BOX IS EX(e) RATED AND ENCLOSURE MATERIAL IS STAINLESS STEEL.
- 7) MULTI CORE/PAIR CABLE GLANDS BY OTHERS.
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KEY PLAN :					

00	7.9.2024	ISSUED FOR APPROVAL	R.G	M.O	A.M.	
REV.	ISSUE DATE	DESCRIPTION	PREPARED	CHECKED	APPROVED	COMPANY

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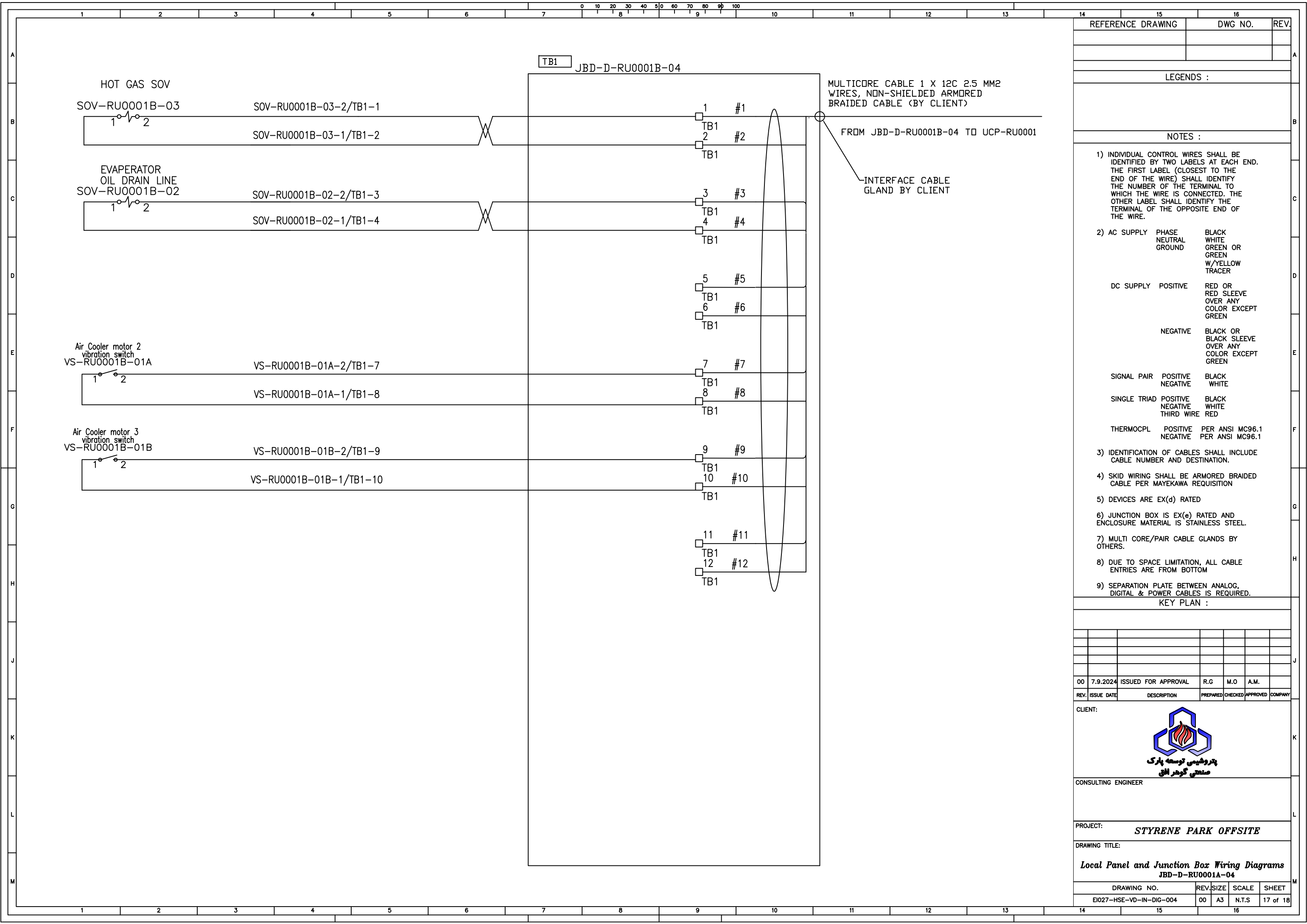
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PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE:

**Local Panel and Junction Box Wiring Diagrams**  
**JBD-D-RU0001A-02**

DRAWING NO.	REV.	SCALE	SHEET
EI027-HSE-VD-IN-DIG-004	00	A3 N.T.S	16 of 18



REFERENCE DRAWING	DWG NO.	REV.

LEGENDS :

NOTES :

- INDIVIDUAL CONTROL WIRES SHALL BE IDENTIFIED BY TWO LABELS AT EACH END. THE FIRST LABEL (CLOSEST TO THE END OF THE WIRE) SHALL IDENTIFY THE NUMBER OF THE TERMINAL TO WHICH THE WIRE IS CONNECTED. THE OTHER LABEL SHALL IDENTIFY THE TERMINAL OF THE OPPOSITE END OF THE WIRE.
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BLACK  
WHITE  
GREEN OR GREEN W/YELLOW TRACER
- DC SUPPLY POSITIVE  
RED OR RED SLEEVE OVER ANY COLOR EXCEPT GREEN
- NEGATIVE  
BLACK OR BLACK SLEEVE OVER ANY COLOR EXCEPT GREEN
- SIGNAL PAIR POSITIVE NEGATIVE  
BLACK WHITE
- SINGLE TRIAD POSITIVE NEGATIVE THIRD WIRE  
BLACK WHITE RED
- THERMOPL POSITIVE NEGATIVE  
PER ANSI MC96.1 PER ANSI MC96.1
- IDENTIFICATION OF CABLES SHALL INCLUDE CABLE NUMBER AND DESTINATION.
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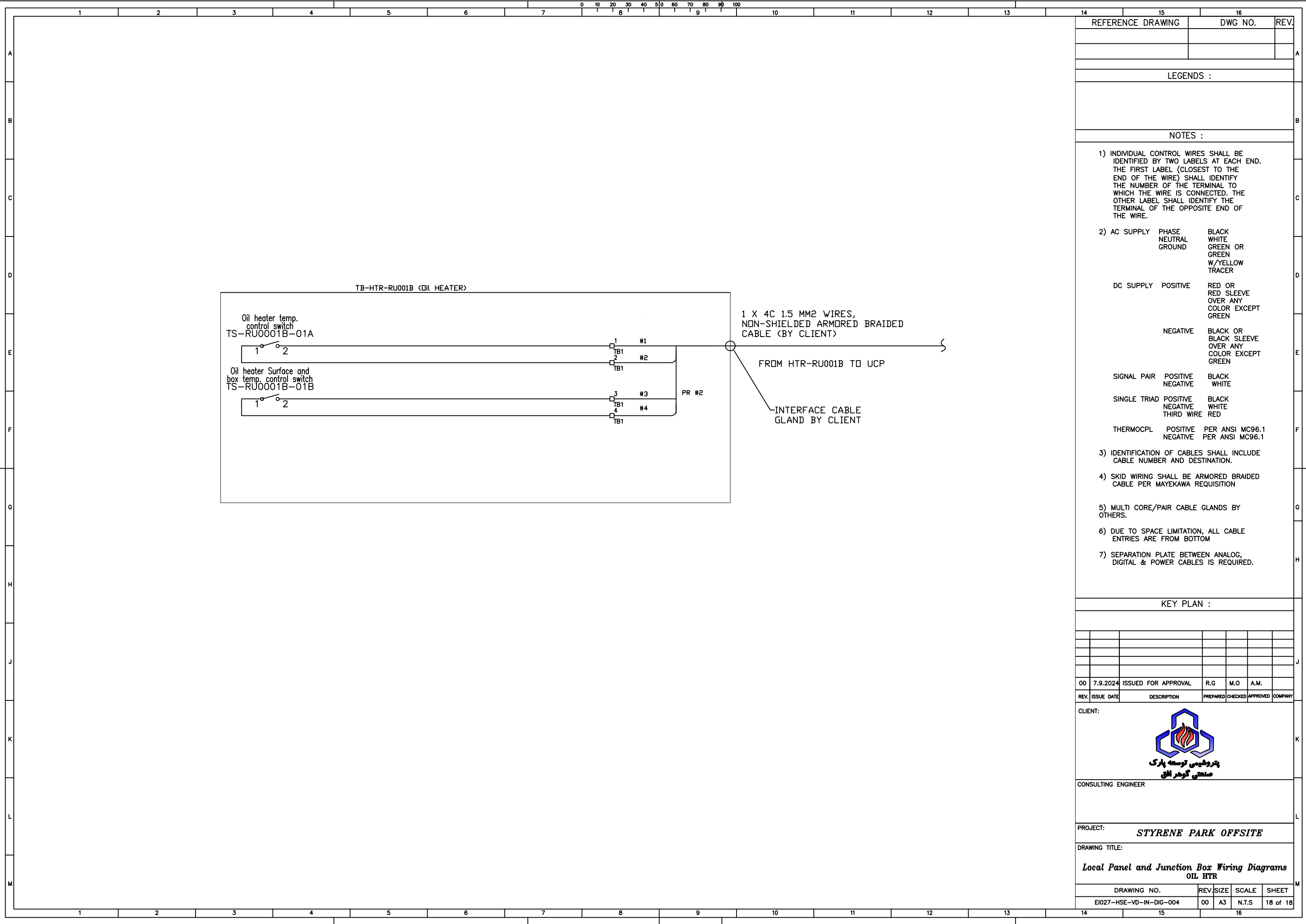
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CONSULTING ENGINEER

PROJECT: **STYRENE PARK OFFSITE**

DRAWING TITLE: **Local Panel and Junction Box Wiring Diagrams JBD-D-RU0001A-04**

DRAWING NO.	REV.	SIZE	SCALE	SHEET
EI027-HSE-VD-IN-DIG-004	00	A3	N.T.S	17 of 18



15	16	REV.														
REFERENCE DRAWING	DWG NO.															
LEGENDS :																
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CONSULTING ENGINEER																
PROJECT: <b>STYRENE PARK OFFSITE</b>																
DRAWING TITLE: <b>Local Panel and Junction Box Wiring Diagrams OIL HTR</b>																
DRAWING NO.	REV.	SIZE	SCALE	SHEET												
E027-HSE-VD-IN-DIG-004	00	A3	N.T.S	18 of 18												