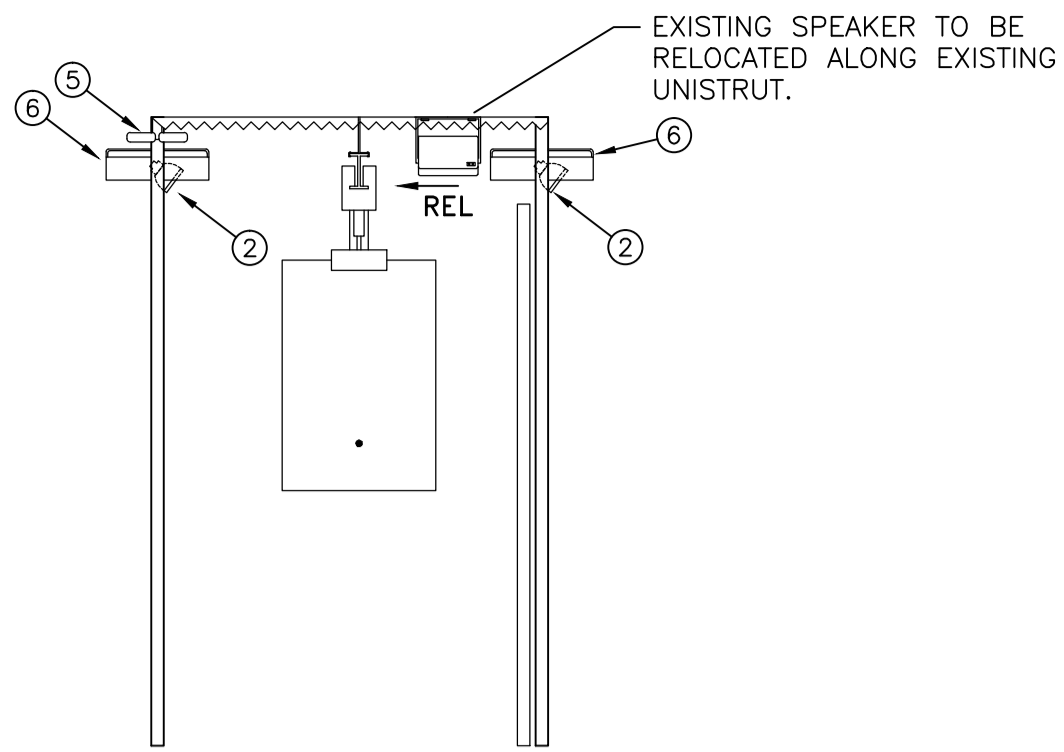
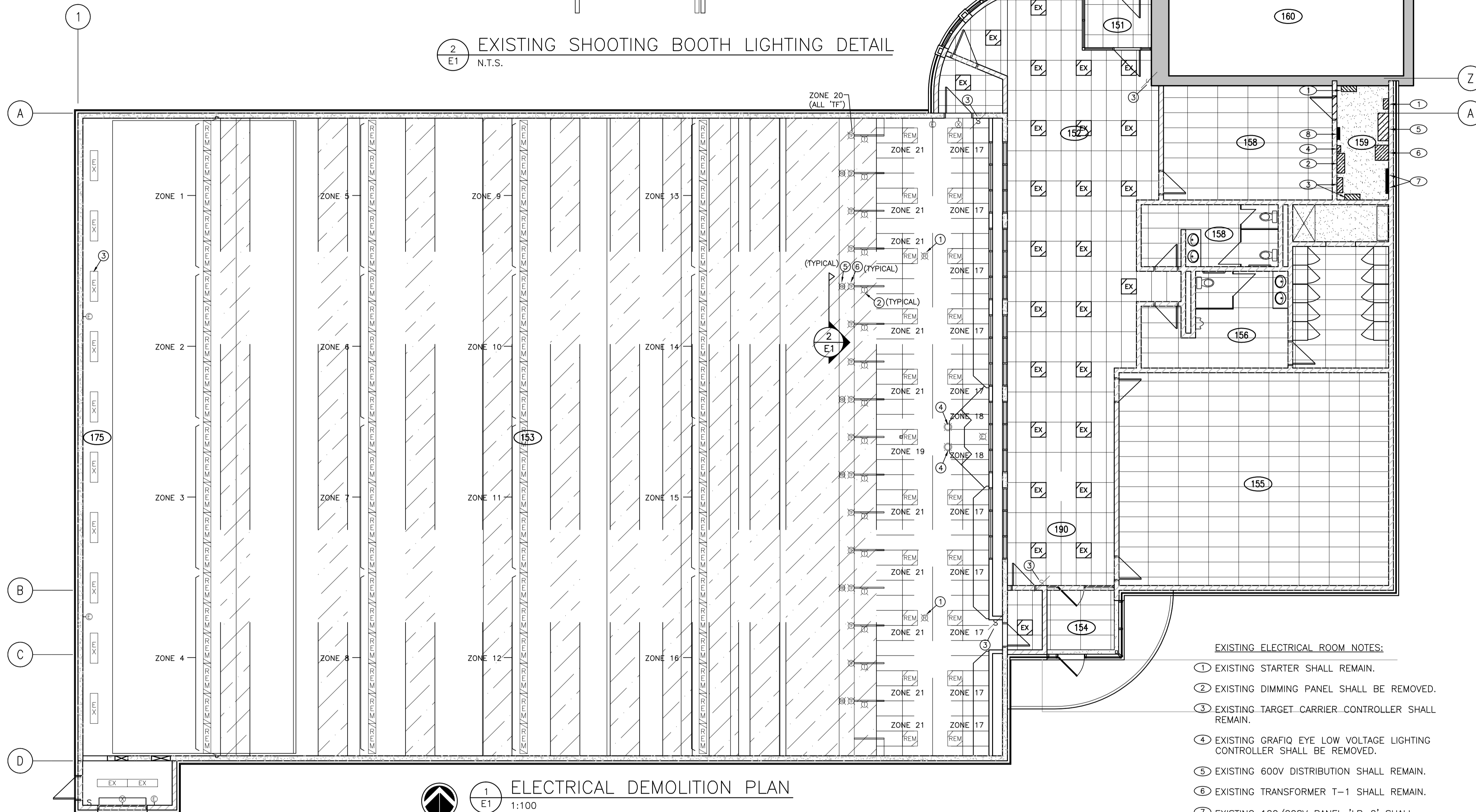


DRAWING AND DETAIL NOTES:

- ① DISCONNECT EXISTING STROBE LIGHTS AND REMOVE FIXTURE TO ALLOW FOR NEW CEILING INSTALLATION. RE-INSTALL AT SAME LOCATION AND RE-CONNECT.
- ② REPLACE EXISTING BOOTH TRACK LIGHT FIXTURES TYPE 'T' WITH NEW. REFER TO FIXTURE SCHEDULE AND SPECIFICATIONS.
- ③ REPLACE EXISTING LIGHT SWITCHES WITH NEW LOW VOLTAGE LIGHT SWITCHES. REFER TO NEW LIGHTING PLAN FOR FURTHER DETAILS.
- ④ REPLACE EXISTING RECESSED LIGHTS WITH NEW LED FIXTURES. REFER TO FIXTURE SCHEDULE AND SPECIFICATIONS.
- ⑤ EXISTING RED/BLUE LIGHT FIXTURES SHALL REMAIN.
- ⑥ EXISTING 3m TARGET FLUORESCENT FIXTURES MOUNTED TO SHOOTING BOOTHS SHALL BE REPLACED WITH NEW LED FLOOD-LIGHT FIXTURES. REFER TO FIXTURE SCHEDULE AND SPECIFICATIONS.



② EXISTING SHOOTING BOOTH LIGHTING DETAIL
N.T.S.



① ELECTRICAL DEMOLITION PLAN
1:100
NORTH

SYMBOL SCHEDULE:

- | | | | |
|--------|---|-----|---|
| AA | FLUORESCENT FIXTURE, SURFACE MOUNTED OR SUSPENDED. | GFI | DUPLEX GROUND FAULT CURRENT INTERRUPTER RECEPTACLE MOUNTED 250mm ABOVE COUNTER OR AS NOTED. |
| AA | FLUORESCENT FIXTURE, RECESSED. | WP | DUPLEX GFI RECEPTACLE C/W DIECAST ALUMINUM WEATHERPROOF RESISTANT DOUBLE LID COVER ADAPT FOR FLUSH OR FS BOX MOUNTING MOUNTED UP 900mm. PROVIDE "IN-USE" COVER. |
| AA | FIXTURE SHOWN SHADED DESIGNATES UNIT AS A NON-SWITCHED NIGHT LIGHT. | EDP | ELECTRICAL DISTRIBUTION PANEL, SURFACE/RECESSED. |
| (a) AA | LETTER SUFFIX ADJACENT TO FIXTURE DESIGNATES SWITCH CONTROL. | WP | DISCONNECT SWITCH. SUFFIX 'WP' INDICATES WEATHERPROOF. |
| ⊙ | RECESSED LED FIXTURE. | ⊙ | MOTOR CONNECTION. COORDINATE FINAL LOCATION ON SITE. REFER TO MOTOR CONTROL SCHEDULE - 'STP' DESIGNATES MOTOR THERMAL SWITCH MOUNTED AT UNIT. |
| ⊙ | WALL SURFACE MOUNTED LED FIXTURE. | ⊙ | JUNCTION BOX. |
| ⊙ | WALL MOUNTED EMERGENCY OR COMBINATION EXIT/EMERGENCY LIGHT FIXTURE. | ⊙ | MOLDED CASE TYPE CIRCUIT BREAKER, 15 AMP UNLESS OTHERWISE NOTED. |
| ⊙ | WALL MOUNTED EXIT SIGN. | | |
| S | S.P.S.T SWITCH MOUNTED UP 1200mm. | | |
| 3S | 3-WAY SWITCH MOUNTED UP 1200mm. | | |
| ⊕ | DUPLEX GROUNDED RECEPTACLE MOUNTED UP 450mm. | | |

2D/1V COMBINATION DATA/VOICE OUTLET WALL MOUNTED UP 450mm OR HEIGHT AS INDICATED BY SUFFIX. PROVIDE A 100mm SQUARE RECESSED JUNCTION BOX WITH A SINGLE GANG EXTENSION RING AND STAINLESS COVERPLATE AS REQUIRED. SUFFIX INDICATES QUANTITY OF TELEPHONE/DATA JACKS REQUIRED ON A COMMON FACEPLATE. EG.: '1D/1V' INDICATES ONE DATA JACK, ONE VOICE JACK. IF DEVICE IS UNSUFFIXED PROVIDE (2) DATA DROPS AND (1) VOICE DROP.

WHERE OUTLETS ARE SUFFIXED THEY SHALL BE MOUNTED AS FOLLOWS:
 SUFFIX 'a' - MOUNT 250mm ABOVE COUNTER.
 SUFFIX 'b' - MOUNT UP 900mm.
 SUFFIX 'c' - MOUNT WITHIN ARCHITECTURAL MILLWORK
 SUFFIX 'd' - MOUNT UP 1200mm.
 SUFFIX 'f' - MOUNT UP 900mm FOR FRIDGE.
 SUFFIX 'h' - MOUNT HORIZONTALLY BELOW MILLWORK COUNTER
 SUFFIX 'm' - MOUNT WITHIN ARCHITECTURAL MILLWORK FOR MICROWAVE

EXISTING ELECTRICAL ROOM NOTES:

- ① EXISTING STARTER SHALL REMAIN.
- ② EXISTING DIMMING PANEL SHALL BE REMOVED.
- ③ EXISTING TARGET CARRIER CONTROLLER SHALL REMAIN.
- ④ EXISTING GRAFIQ EYE LOW VOLTAGE LIGHTING CONTROLLER SHALL BE REMOVED.
- ⑤ EXISTING 600V DISTRIBUTION SHALL REMAIN.
- ⑥ EXISTING TRANSFORMER T-1 SHALL REMAIN.
- ⑦ EXISTING 120/208V PANEL 'LP-2' SHALL REMAIN.
- ⑧ EXISTING 120/208V PANEL 'TC' SHALL REMAIN.

GENERAL NOTES:

1. DISCONNECT EXISTING FLUORESCENT LIGHTS SUFFIX 'REM' AND REMOVE FIXTURES AND ASSOCIATED WIRING.
2. ALL NEW LIGHTING IN GUN RANGE AREA SHALL BE FED FROM ALL NEW CONDUIT/CABLING/BOXES.



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Signature: [Handwritten Signature]

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Revision/Revision	Description/Description	Date/Date
Client/client		

Project title/Titre du projet

**25B RANGE RENOVATION
 REGINA, SK**

Approved by/Approve par

Designed by/Concept par
 BDK/SBK

Drawn by/Dessine par
 BDK/GTK

RCMP Project Manager/Administrateur de Projets GRC

RCMP, Architectural and Engineering Resources Manager/
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**ELECTRICAL LIGHTING
 DEMOLITION PLANS**

Project No./No. du projet
23/2015

Sheet/Feuille
E1
 OF #

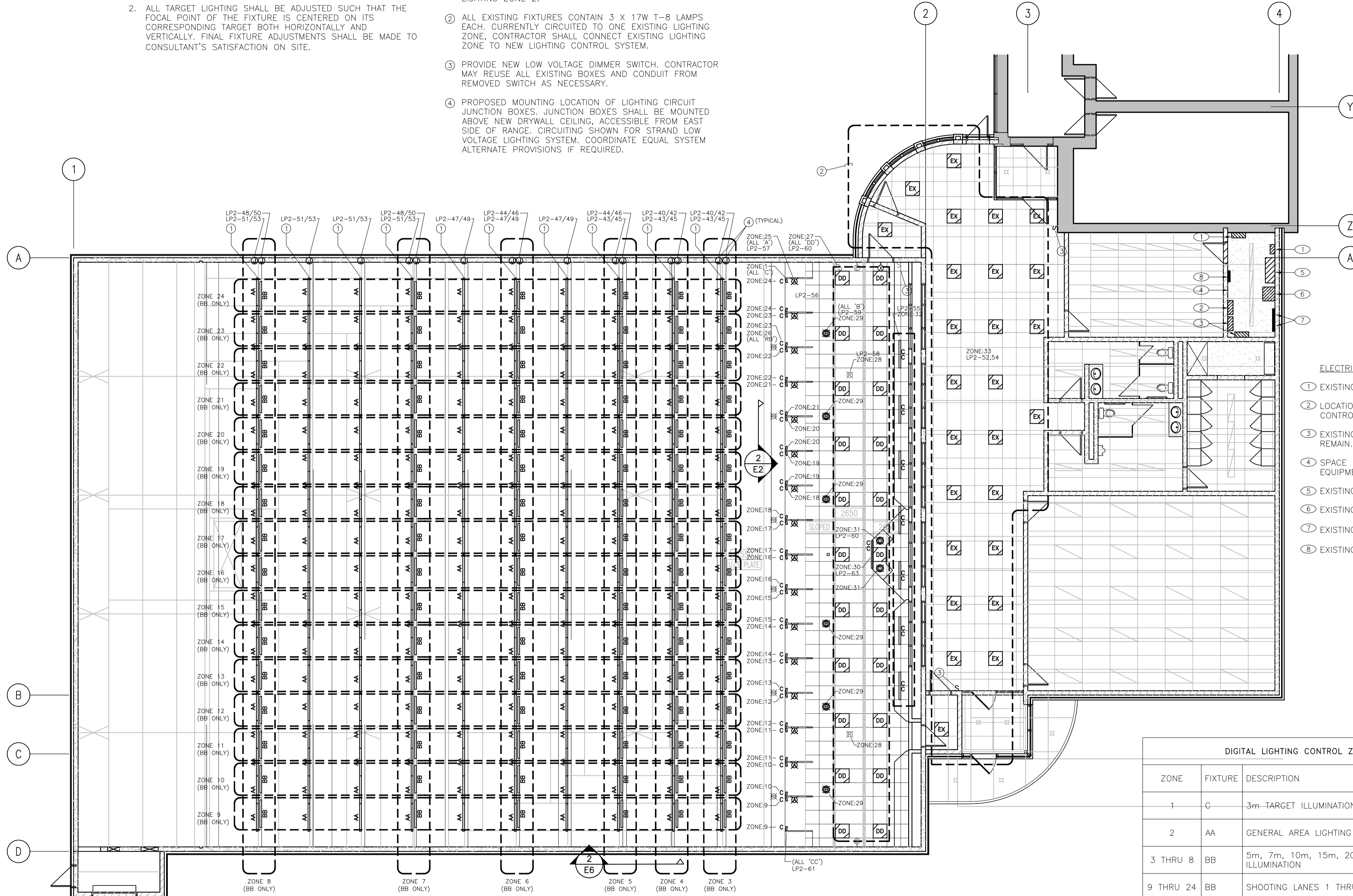
Revision no./La Révision no.
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GENERAL NOTES:

- REFER TO ELECTRICAL DETAIL DRAWINGS FOR RANGE FIXTURE MOUNTING DETAILS.
- ALL TARGET LIGHTING SHALL BE ADJUSTED SUCH THAT THE FOCAL POINT OF THE FIXTURE IS CENTERED ON ITS CORRESPONDING TARGET BOTH HORIZONTALLY AND VERTICALLY. FINAL FIXTURE ADJUSTMENTS SHALL BE MADE TO CONSULTANT'S SATISFACTION ON SITE.

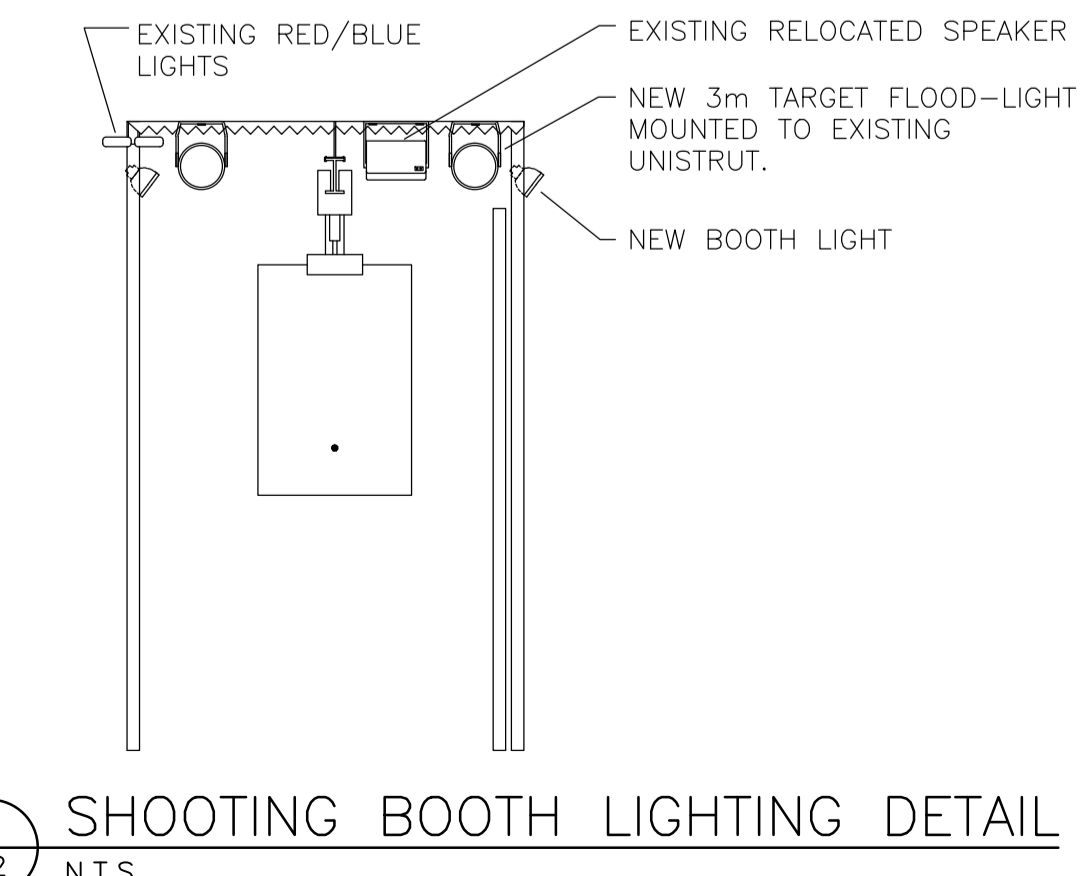
DRAWING NOTES:

- PROVIDE 24.4M (20 X 1219MM) OF CONTINUOUS TYPE 'AA' FIXTURES THESE FIXTURES SHALL BE CONTROLLED BY LIGHTING ZONE 2.
- ALL EXISTING FIXTURES CONTAIN 3 X 17W T-8 LAMPS EACH. CURRENTLY CIRCUITED TO ONE EXISTING LIGHTING ZONE, CONTRACTOR SHALL CONNECT EXISTING LIGHTING ZONE TO NEW LIGHTING CONTROL SYSTEM.
- PROVIDE NEW LOW VOLTAGE DIMMER SWITCH. CONTRACTOR MAY REUSE ALL EXISTING BOXES AND CONDUIT FROM REMOVED SWITCH AS NECESSARY.
- PROPOSED MOUNTING LOCATION OF LIGHTING CIRCUIT JUNCTION BOXES. JUNCTION BOXES SHALL BE MOUNTED ABOVE NEW DRYWALL CEILING, ACCESSIBLE FROM EAST SIDE OF RANGE. CIRCUITING SHOWN FOR STRAND LOW VOLTAGE LIGHTING SYSTEM. COORDINATE EQUAL SYSTEM ALTERNATE PROVISIONS IF REQUIRED.



- ELECTRICAL ROOM NOTES:**
- EXISTING STARTER SHALL REMAIN.
 - LOCATION FOR NEW LOW VOLTAGE LIGHTING CONTROL EQUIPMENT.
 - EXISTING TARGET CARRIER CONTROLLER SHALL REMAIN.
 - SPACE FOR FUTURE VIDEO SURVEILLANCE EQUIPMENT.
 - EXISTING 600V DISTRIBUTION SHALL REMAIN.
 - EXISTING TRANSFORMER T-1 SHALL REMAIN.
 - EXISTING 120/208V PANEL 'LP-2' SHALL REMAIN.
 - EXISTING 120/208V PANEL 'TC' SHALL REMAIN.

DIGITAL LIGHTING CONTROL ZONING SUMMARY			
ZONE	FIXTURE	DESCRIPTION	DIMMING
1	C	3m TARGET ILLUMINATION	Y
2	AA	GENERAL AREA LIGHTING	
3 THRU 8	BB	5m, 7m, 10m, 15m, 20m, 25m TARGET ILLUMINATION	Y
9 THRU 24	BB	SHOOTING LANES 1 THRU 16 ILLUMINATION	Y
25	A	SHOOTING BOOTH LIGHTING	Y
26	RB	RED/BLUE STROBE LIGHT ALL ON	
27	DD	INSTRUCTOR AREA GENERAL LIGHTING	Y
28	R	RED FLASHING LIGHTS ALL ON	
29	B	RED NIGHT SCENARIO LIGHTING	Y
30	CC	INSTRUCTOR DESK RED NIGHT SCENARIO LIGHTING	Y
31	D	INSTRUCTOR DESK LIGHTING	Y
32	CC	CLIP LOADING AREA RED NIGHT SCENARIO LIGHTING	Y
33	EX	EXISTING CORRIDOR LIGHTING	
**	BB	ALL INDIVIDUAL TARGET FIXTURES OPERATING IN 'AUTO' MODE. REFER TO SPECIFICATIONS.	Y



1 ELECTRICAL LIGHTING PLANS
1:100



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**25B RANGE RENOVATION
REGINA, SK**

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BDK/SBK

Drawn by/Dessine par
BDK/GTK

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RCMP, Architectural and Engineering Resources Manager/
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**ELECTRICAL LIGHTING
PLANS**

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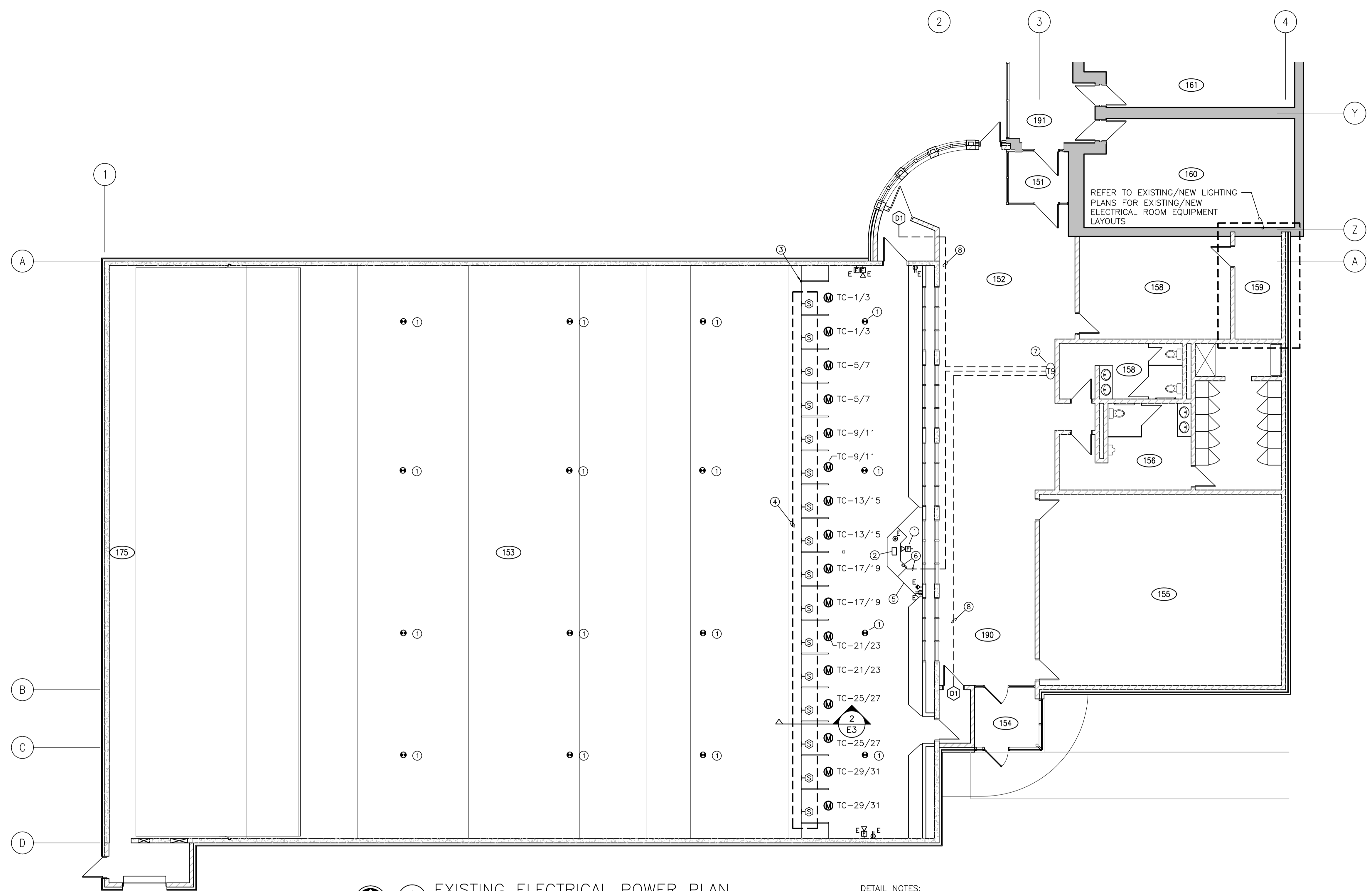
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**ELECTRICAL POWER & SYSTEMS
 PLANS**

Project No./No. du projet: 23/2015
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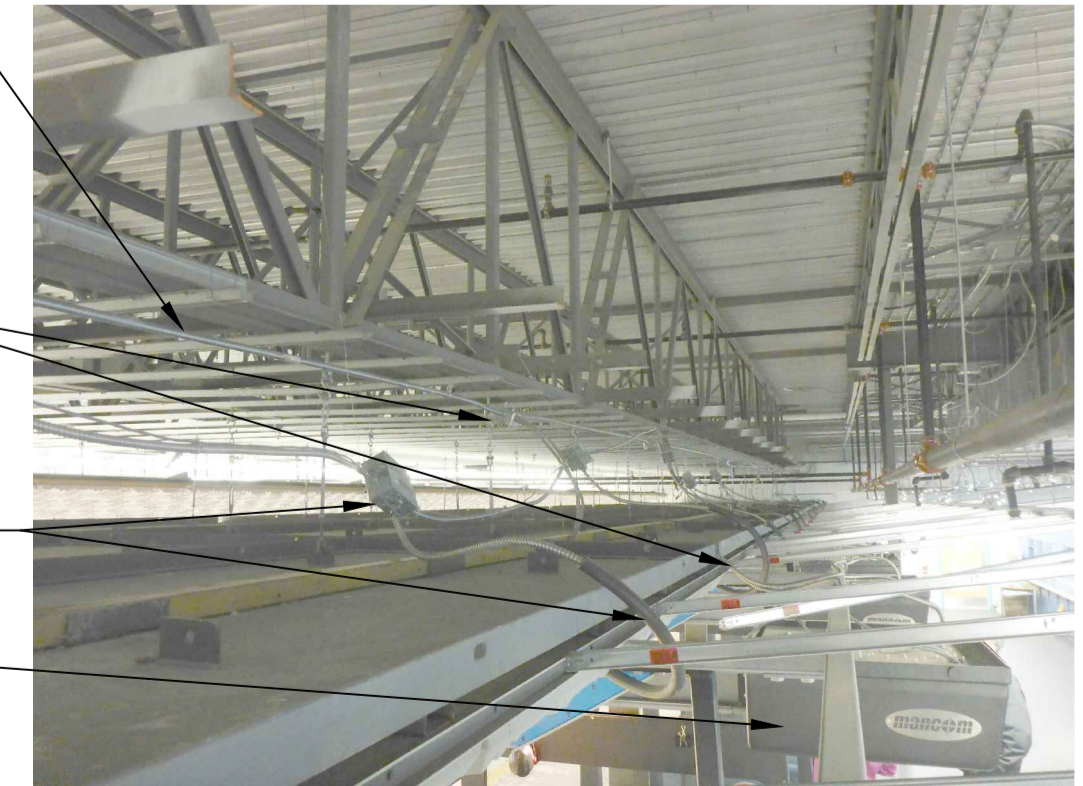
1 EXISTING ELECTRICAL POWER PLAN
 E3 1:100
 NORTH

DRAWING NOTES:

- ① DISCONNECT EXISTING FIRE ALARM DEVICE AND REMOVE DEVICE TO ALLOW FOR NEW CEILING INSTALLATION. RE-INSTALL EXISTING DEVICE AT SAME LOCATION AND RE-CONNECT. ALL DEVICES SHALL BE VERIFIED AS OPERATIONAL BY THE MANUFACTURER'S REPRESENTATIVE AND A FINAL FIRE ALARM VERIFICATION REPORT PROVIDED TO THE CONSULTANT.
- ② EXISTING TARGET CARRIER / LIGHTING CONTROL PANEL.
- ③ EXISTING TARGET CARRIER SENSOR.
- ④ EXISTING INSTRUCTOR PUBLIC ADDRESS SYSTEM. RELOCATE EACH EXISTING SPEAKER ALONG EXISTING UNISTRUT TOWARDS CENTER OF STALL TO ALLOW FOR NEW 3m TARGET LIGHT INSTALLATIONS.
- ⑤ EXISTING RAISED FLOOR.
- ⑥ PROVIDE NEW SINGLE GANG BOX WITH STAINLESS STEEL COVER FOR FUTURE CARD READER INTEGRATION WITH TARGET CARRIER SYSTEM. FLUSH MOUNT BOX IN EXISTING INSTRUCTOR DESK 150mm BELOW COUNTER. PROVIDE 21mm CONDUIT FROM SINGLE GANG BOX TO EXISTING RECESSED SECURITY T9 CABINET LOCATED IN CORRIDOR 152.
- ⑦ EXISTING RECESSED TYPE 1 TELEPHONE CABINET USED FOR SECURITY TERMINATIONS.
- ⑧ PROVIDE 21mm CONDUIT FROM CABINET ABOVE ACCESS CONTROL DOOR COMPLETE WITH PROVO 6708 CABLE (OR EQUIVALENT) TO T9 CABINET IN CORRIDOR 152.

DETAIL NOTES:

- 1. REMOVE EXISTING EMT FOR RANGE CARRIER POWER FEEDS FROM PULL BOX AT NORTH WALL TO DISTRIBUTED JUNCTION BOXES AT EACH TARGET CARRIER (16). REMOVE ALL CABLING FROM JUNCTION BOXES BACK TO PANEL. PROVIDE NEW CONNECTIONS FOR TARGET CARRIERS AS PER DRAWING E5.
- 2. EXISTING DISTRIBUTED JUNCTION BOXES/AC90 FEEDS DOWN TO TARGET CARRIERS SHALL BE REINSTALLED ON NEW DRYWALL CEILING. RE-CONNECT TO NEW TARGET CARRIER FEEDS DESCRIBED IN NOTE (1).
- 3. EXISTING TRACK LIGHTING FEEDS SHALL BE REMOVED BACK TO PANEL. EXISTING TRACKS SHALL ALSO BE REMOVED.
- 4. EXISTING TARGET CARRIERS.



2 EXISTING ABOVE SHOOTING BOOTH DETAIL
 E3 N.T.S.

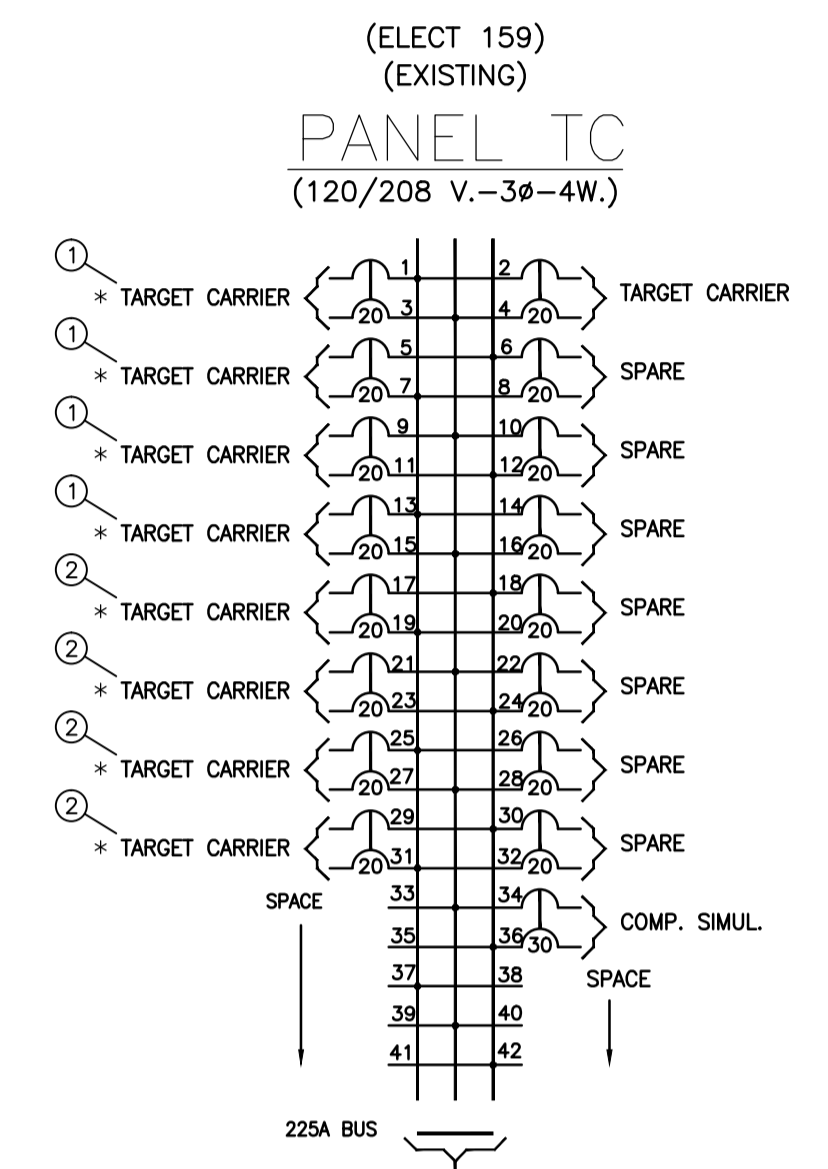
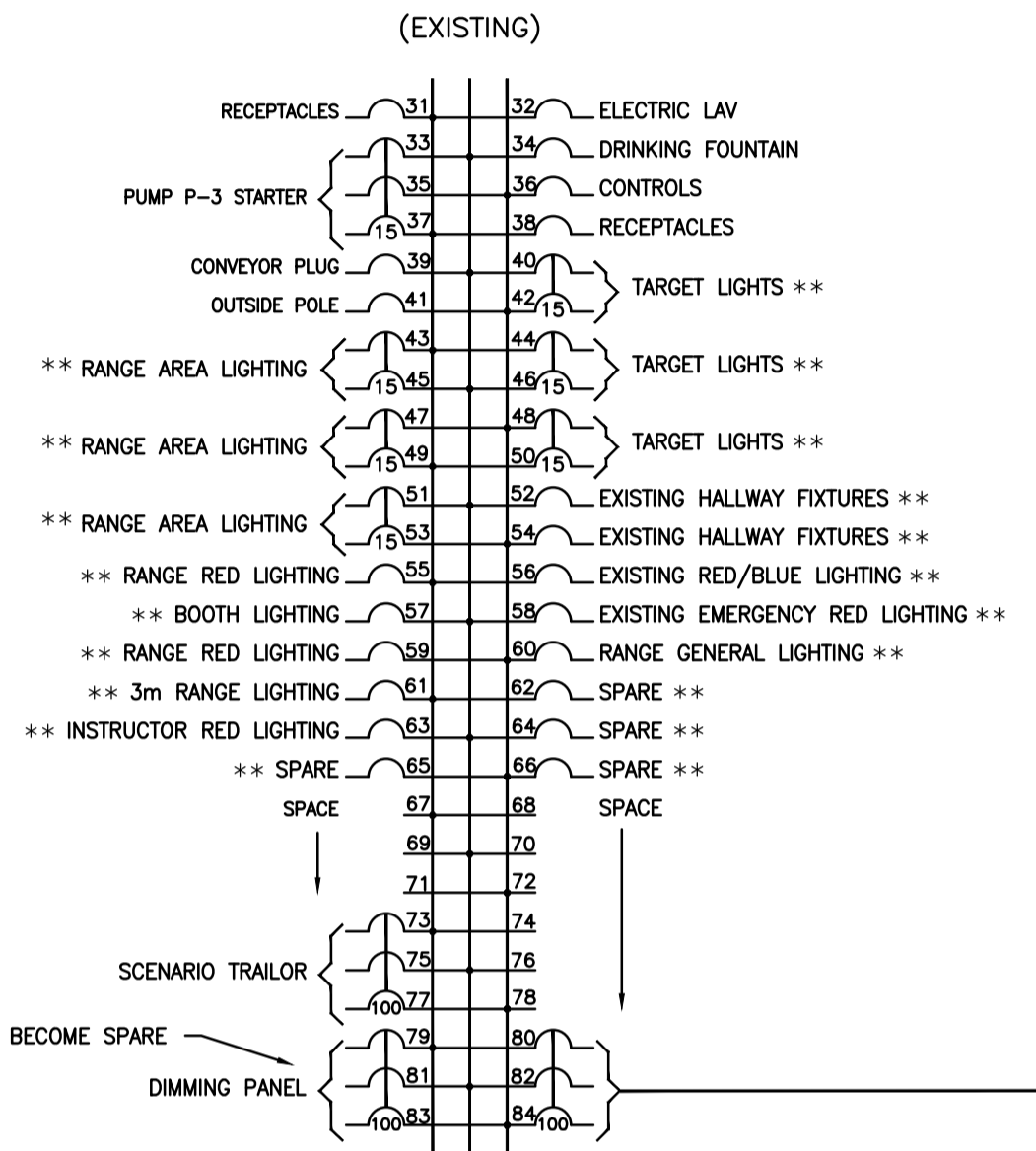
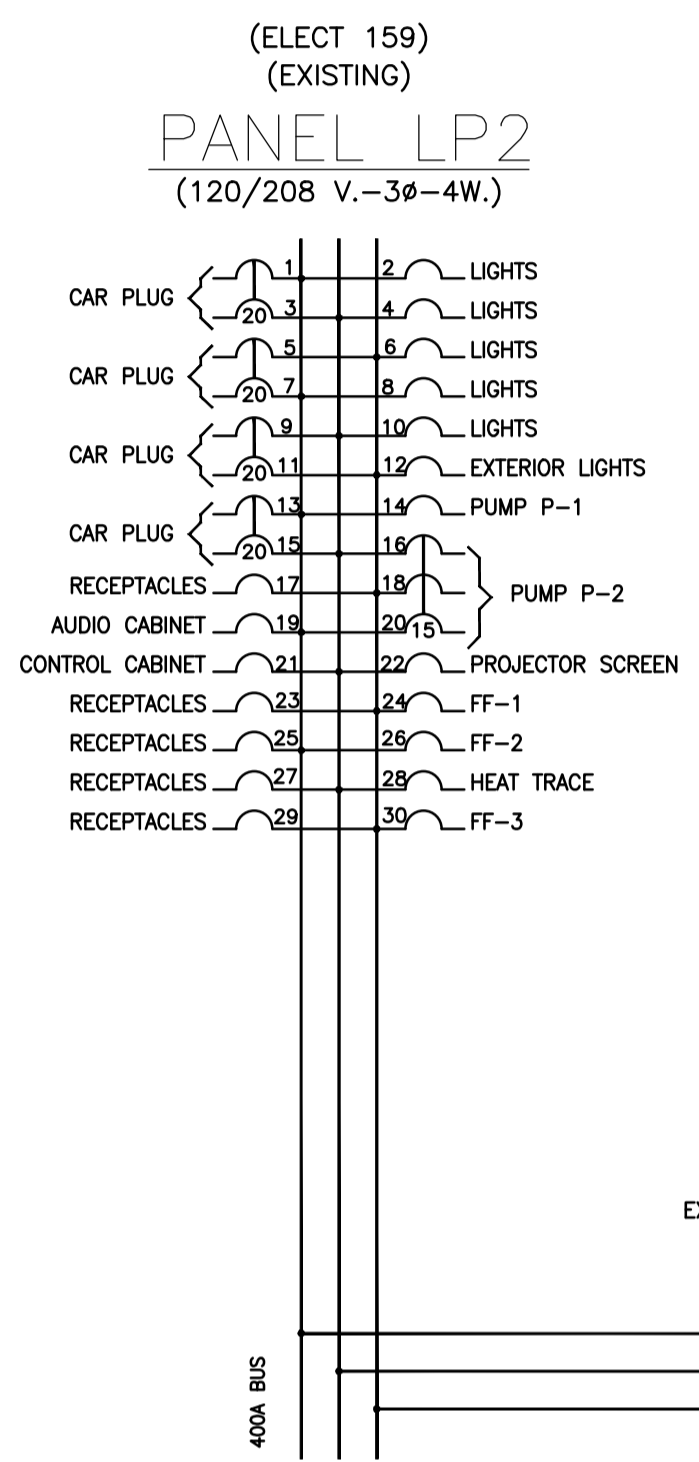
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DRAWING NOTES:

- ① PROVIDE 2 #12AWG RW90 + #12 INS. BOND IN EXISTING EMT TO TARGET CARRIERS IN RANGE AS DESCRIBED IN DETAIL 2/E3.1. PROVIDE NEW EMT AND JUNCTION BOXES FROM NORTH WALL PULL BOX AS REQUIRED FOR NEW CONNECTIONS TO EXISTING TARGET CARRIERS.
- ② FEEDER SHALL BE 2 #10AWG RW90 + #10 INS. BOND IN NEW 21mm EMT.

NOTE: THE EXISTING PANEL SCHEMATICS ARE SHOWN FOR REFERENCE ONLY. THE CIRCUIT NUMBERS AND DESCRIPTIONS DO NOT NECESSARILY REFLECT ACTUAL CIRCUITS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL EXISTING BRANCH CIRCUITRY MODIFIED IN THIS RENOVATION AND SHALL REUSE EXISTING BREAKERS MADE SPARE BY DEMOLITION TO ACHIEVE THE CIRCUITRY SHOWN ON THESE PLANS.

- * INDICATES NEW BRANCH CIRCUITRY FED FROM AN EXISTING BREAKER.
- ** INDICATES NEW BRANCH CIRCUIT FED FROM A NEW BREAKER
- *** INDICATES EXISTING BRANCH CIRCUITRY FED FROM NEW BREAKERS

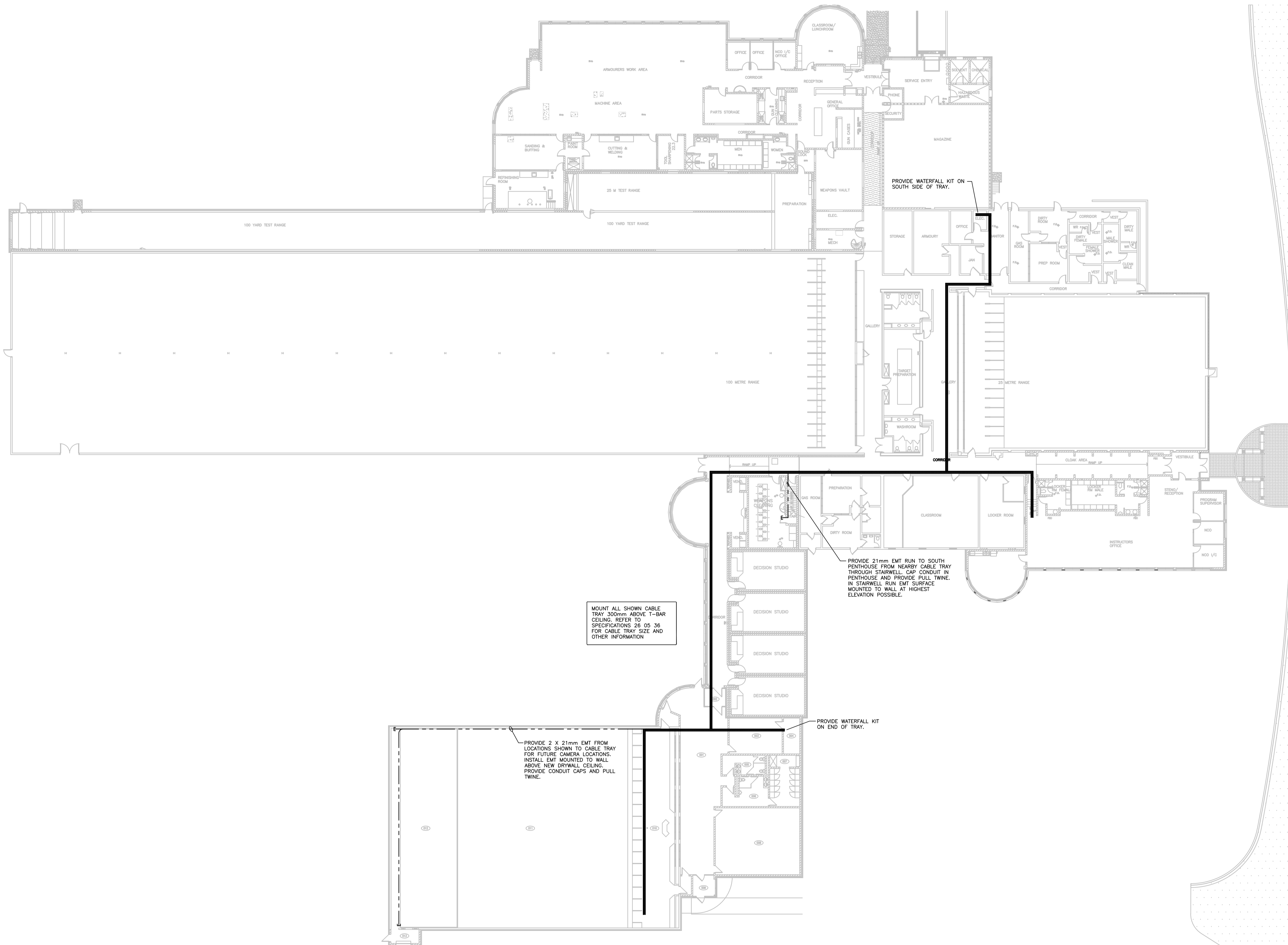
ALL PANEL DIRECTORIES AFFECTED BY THIS RENOVATION SHALL BE UPDATED TO SUIT NEW AND REVISED CIRCUITRY.

PANEL SCHEMATICS
 N.T.S.

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Drawing title/Titre du dessin		
ELECTRICAL PANEL SCHEMATICS		
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1
E4
1:250
DATA RACEWAY ROUGH-IN PLAN



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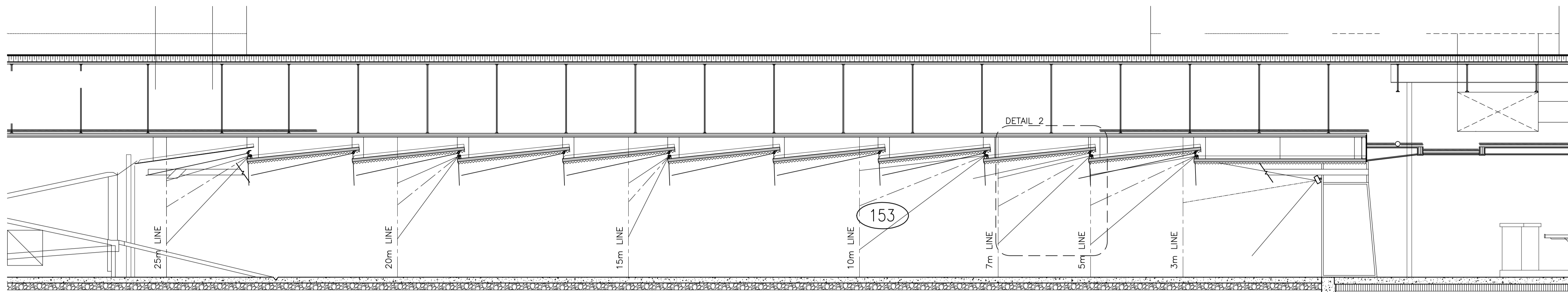
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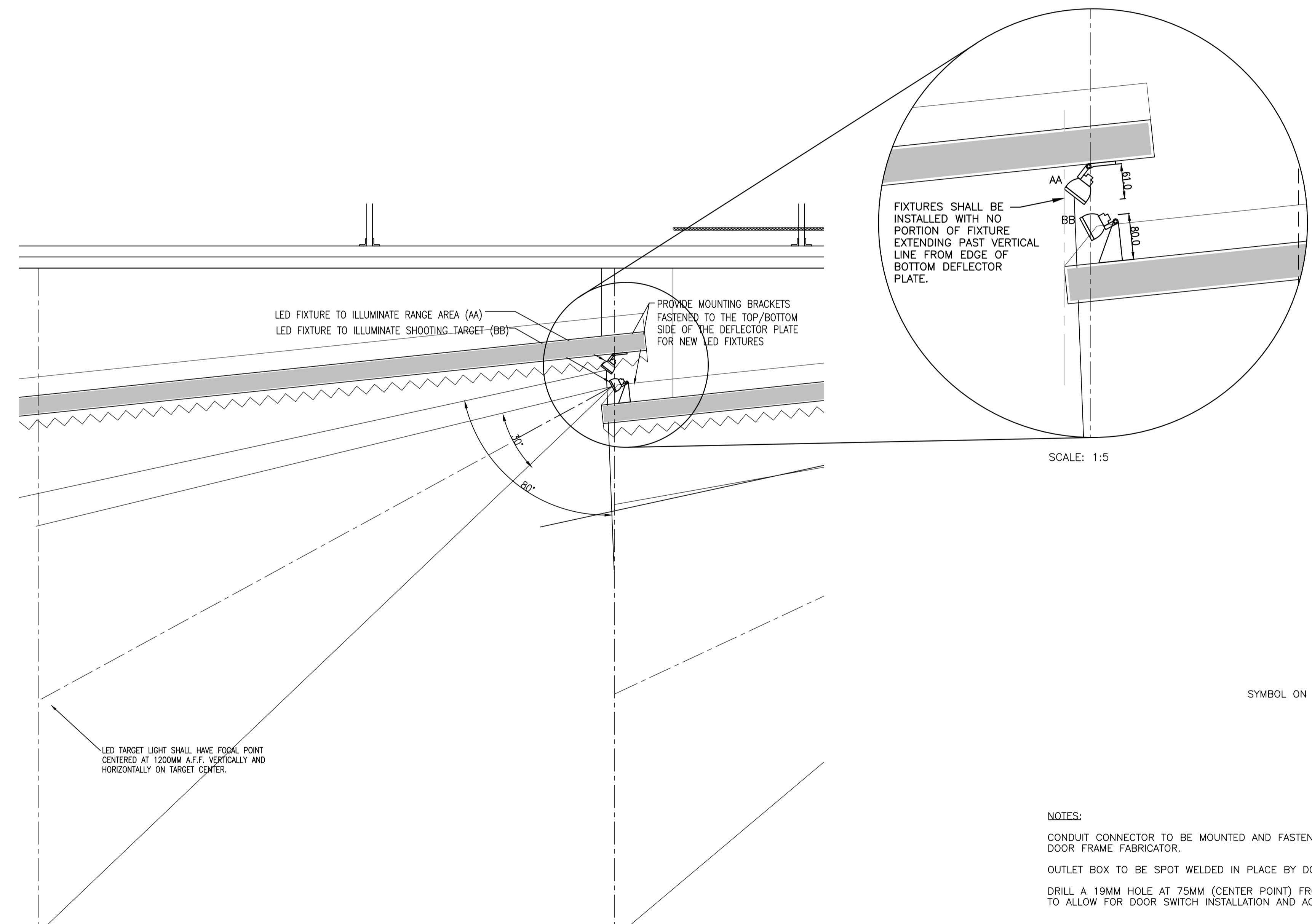
Client/client

Drawing title/Titre du dessin
ELECTRICAL DATA SYSTEMS PLAN

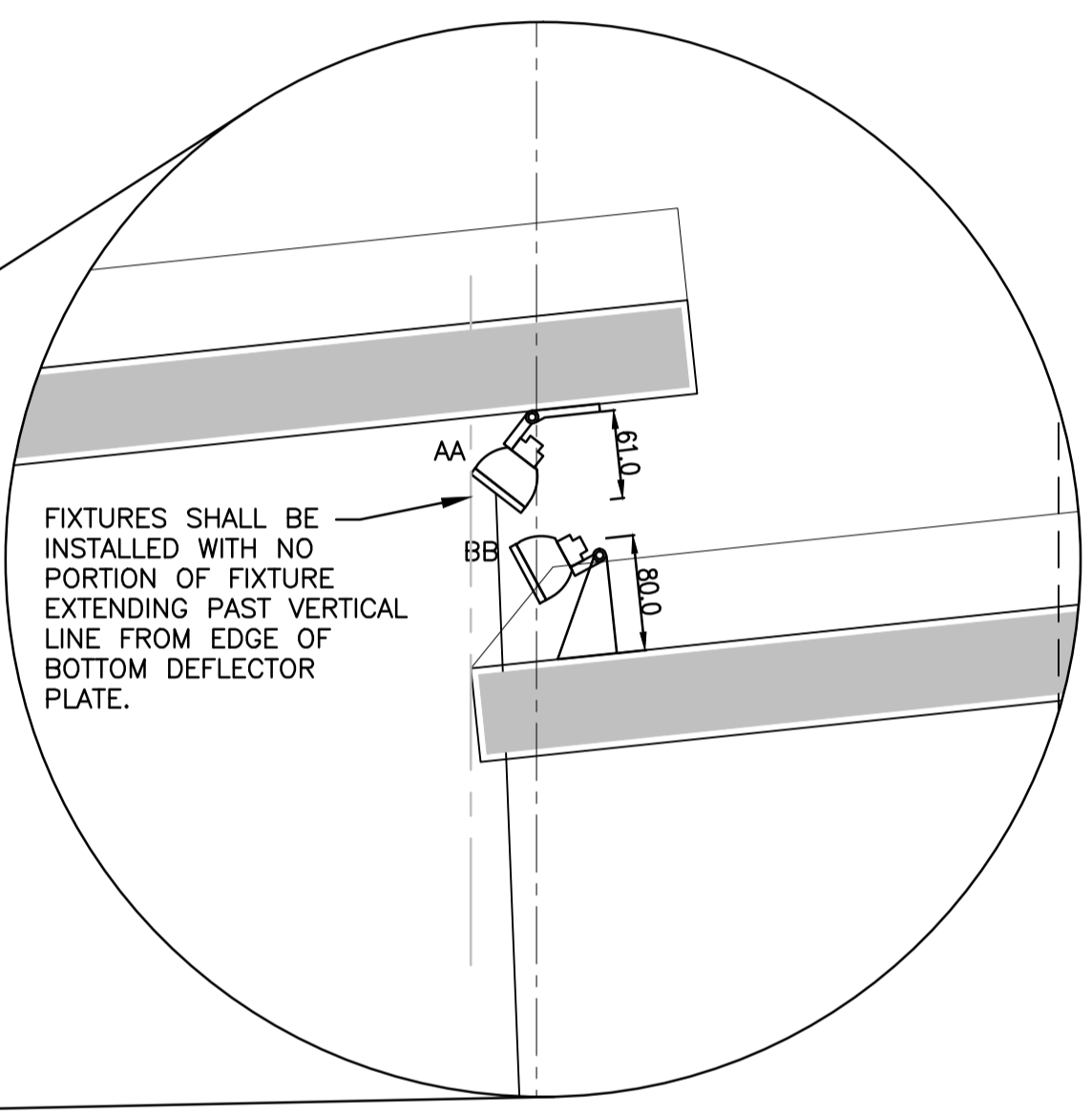
Project No./No. du projet 23/2015	Sheet/Feuille E4 OF #	Revision no./La Révision no. 0
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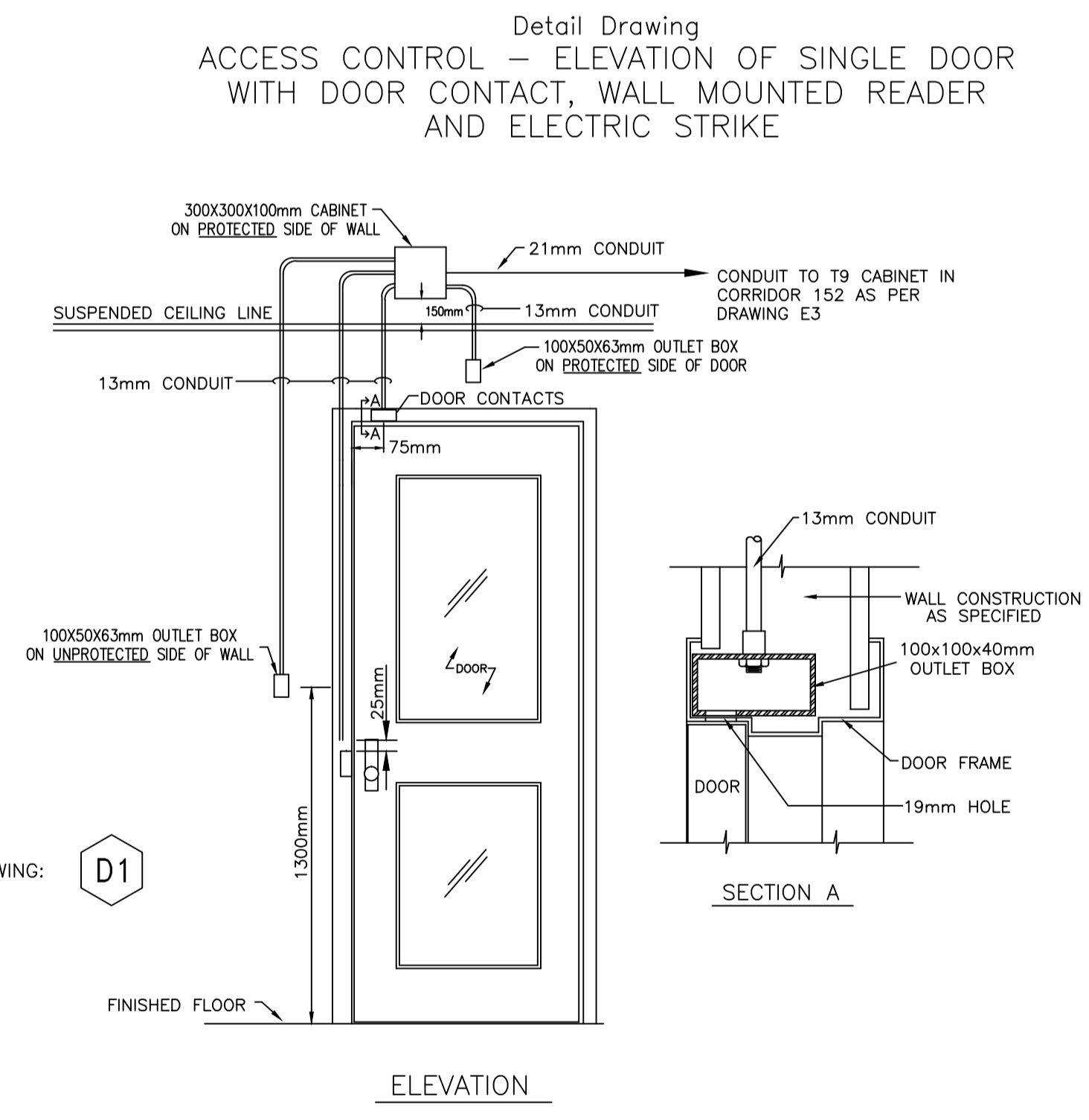
1 RANGE FIXTURE SECTION DETAIL
E6 1:50



2 RANGE FIXTURE MOUNTING DETAIL
E6 1:10



3 ACCESS CONTROL ROUGH-IN DETAIL
E6 N.T.S.



ELEVATION

SECTION A

NOTES:
CONDUIT CONNECTOR TO BE MOUNTED AND FASTENED TO OUTLET BOX BY DOOR FRAME FABRICATOR.
OUTLET BOX TO BE SPOT WELDED IN PLACE BY DOOR FRAME FABRICATOR.
DRILL A 19MM HOLE AT 75MM (CENTER POINT) FROM THE EDGE OF THE DOOR CASING TO ALLOW FOR DOOR SWITCH INSTALLATION AND ACCESS TO WIRING.



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ELECTRICAL DETAILS

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