

DRAWING LIST

ARCHITECTURAL

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STRUCTURAL

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STRUCTURAL PLAN AT FLOOR & RUNWAY	S2
STRUCTURAL SECTIONS & DETAIL	S3

ELECTRICAL

TITLE, KEY PLAN, LEGEND AND DRAWING LIST	E000
KEY PLAN AND ELECTRICAL ROOM E2 LAYOUT - ELECTRICAL WORK	E001

CSA15-M2a DAVID FLORIDA LABORATORY STRUCTURAL UPGRADES AND NEW SWING SPACE CRANE

15-006

CLIENT



Canadian Space Agency
Agence spatiale canadienne

YVES GUINDON
Chief, Security & Facilities

M. FARID, P. Eng.
Manager, Building Operations & Security



STRUCTURAL



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Structural Design

ARCHITECTURAL



(L+D)

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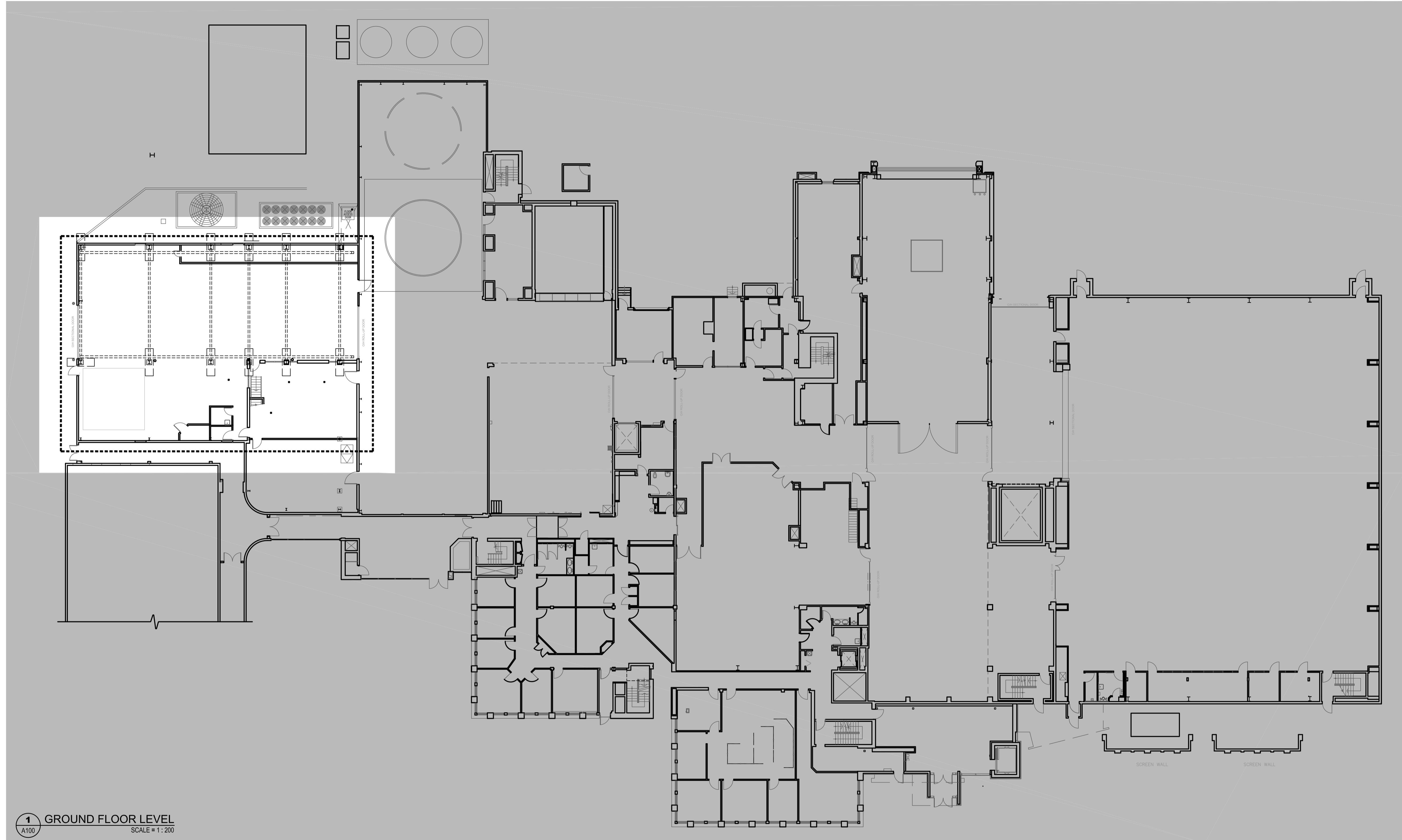
ELECTRICAL



Stantec

3701 CARLING AVE
OTTAWA, ON

ISSUED FOR TENDER
2015.08.10

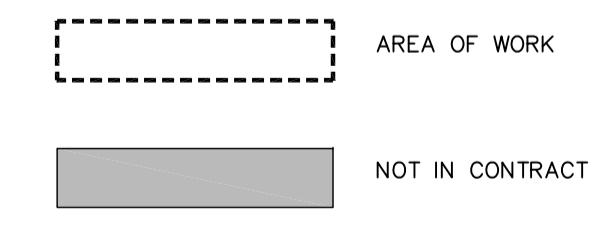


1 GROUND FLOOR LEVEL
SCALE = 1 : 200

GENERAL NOTES

- A. UNLESS OTHERWISE INDICATED, DIMENSIONS ARE TO BE ESTABLISHED FROM THE FINISHED FACE OF GYPSUM BOARD WALLS, THE FINISHED FACE OF CONCRETE WALLS, EXISTING WALLS AND STRUCTURAL GRID LINE.
- B. CONTRACTOR SHALL VERIFY AND CONFIRM SITE CONDITIONS AND DIMENSIONS PRIOR TO BID SUBMISSION.
- C. REFER TO ELECTRICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL REMOVAL INFORMATION AND SERVICING INFORMATION (LOCATIONS & DETAILS).
- D. PATCH REPAIR AND MAKE GOOD ALL HOLES MADE THROUGH ASSEMBLIES TO REMAIN MADE BY REMOVALS.
- E. GENERAL CONTRACTOR TO REVIEW EXISTING SERVICES AT RENOVATION AREAS, LOCALIZED WALL DEMOLITIONS, PATCH AND REPAIRS REQUIRED FOR SERVICE RELOCATIONS.
- F. PROVIDE P. ENG LICENSED IN THE PROVINCE OF ONTARIO STAMPED SHOP DRAWINGS FOR NEW CRANES.
- G. REFER TO STRUCTURAL DRAWINGS FOR NEW SUPPORTING STRUCTURE.
- H. UNLESS OTHERWISE INDICATED ALL NEW AND AFFECTED WALL & CEILING SURFACES TO BE PRIMED AND PAINTED.
- I. UNLESS OTHERWISE INDICATED ALL NEW STRUCTURAL STEEL TO RECEIVE PAINT ON ALL SIDES TO MATCH EXISTING.
- J. ANY CONSTRUCTION MATERIALS INDICATED TO BE REMOVED AND REPLACED THAT ARE DAMAGED DURING REMOVALS TO BE REPLACED WITH NEW.
- K. GENERAL CONTRACTOR TO RELOCATE ALL ELECTRICAL & MECHANICAL SERVICES THAT MAY OBSTRUCT THE INSTALLATION OF NEW CRANE BEAMS & RUNNERS WHETHER IT SHOWS IN DRAWINGS DETAILS OR NOT. SERVICES TO BE REINSTATED TO ORIGINAL CONDITION INCLUDING SEALING, INSULATION, SUPPORTS, PAINT, ETC. AT NO ADDITIONAL COST.

LEGEND



YVES GUINDON
Director, Security & Facilities
M. FARID, P. Eng.
Manager, Building Operations & Security

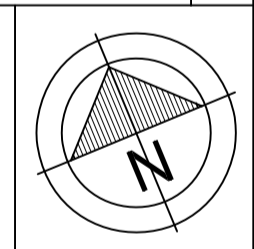
ARCHITECTURE
(L+D)
LALANDE + DOYLE ARCHITECTS INC. Tel: 913.223.2000 405 - 207 Queen Street West, Toronto, Ontario M5H 2G2

ELECTRICAL
Stantec

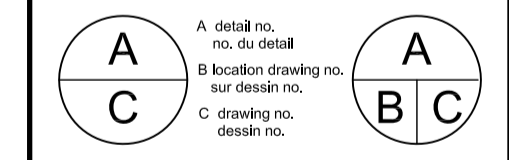
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LEEKOR Engineering Inc.
Structural Design

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5.		
4.	ISSUED FOR TENDER	15.06.14
3.	ISSUED FOR 99% REVIEW	15.04.20
2.	ISSUED FOR 99% REVIEW	15.04.09
1.	ISSUED FOR 99% REVIEW	15.03.20
No.	Revision	Date



PROFESSIONAL STAMP



project project
DAVID FLORIDA LABORATORY
BUILDING No. 65, SHIRLEY'S BAY, ONTARIO

designed concu
drawing dessin
**SWING SPACE
STRUCTURAL UPGRADES &
NEW OVERHEAD CRANE**
drawing dessin
**GROUND FLOOR LEVEL
REFERENCE PLAN**

date	R. JAMES	dessiné
date	L. LALANDE	examiné
date	M. FARID	approuvé
scale	AS SHOWN	

project no. no. du projet
CSA15-M2a
drawing no. no. du dessin
A-100

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Director, Security & Facilities
M. FARID, P. Eng.
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LALANDE + DOYLE ARCHITECTS INC. Tel: 416.223.2266 Fax: 416.223.2267
405 - 207 Queen Street West, Toronto, Ontario M5H 1A5

ELECTRICAL
Stantec

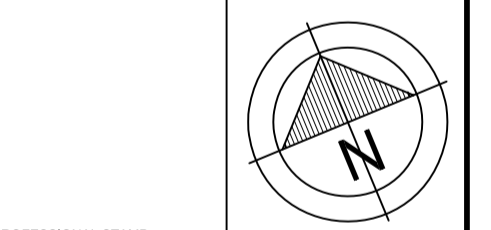
STRUCTURE
LEEKOR Engineering Inc.
Structural Design
225 West Beaver Creek Road, Unit 10, Richmond Hill, Ontario L4B 1M2
Tel: 905.882.8888 Fax: 905.882.8883

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No.	Revision	Date
5.		
4.	ISSUED FOR TENDER	15.08.10
3.	ISSUED FOR 99% REVIEW	15.04.26
2.	ISSUED FOR 99% REVIEW	15.04.09
1.	ISSUED FOR 99% REVIEW	15.03.26



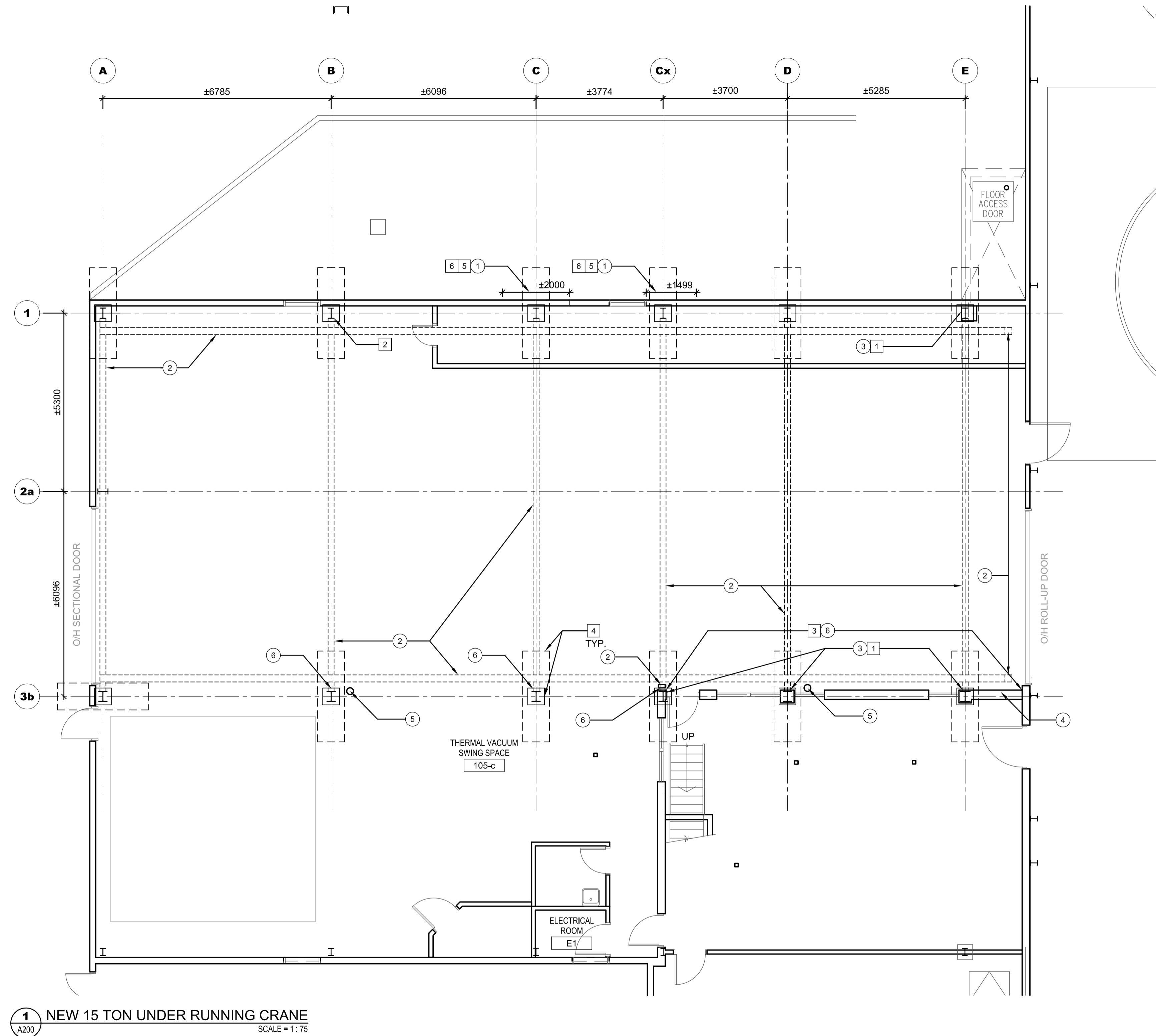
PROFESSIONAL STAMP	
A C	A B C

project / projet
DAVID FLORIDA LABORATORY
BUILDING No. 65, SHIRLEYS BAY, ONTARIO
SWING SPACE
STRUCTURAL UPGRADES &
NEW OVERHEAD CRANE

drawing / dessin
**15 TON CRANE
ENLARGED FLOOR PAN**

designed / conçu	
date	
drawn / dessiné	R. JAMES
date	
reviewed / examiné	L. LALANDE
date	
approved / approuvé	M. FARID
date	
scale	AS SHOWN

project no. / no. du projet
CSA15-M2a
drawing no. / no. du dessin
A-200



1 NEW 15 TON UNDER RUNNING CRANE
SCALE = 1:75

GENERAL NOTES

- A. UNLESS OTHERWISE INDICATED, DIMENSIONS ARE TO BE ESTABLISHED FROM THE FINISHED FACE OF GYPSUM BOARD WALLS, THE FINISHED FACE OF CONCRETE WALLS, EXISTING WALLS AND STRUCTURAL GRID LINE.
- B. CONTRACTOR SHALL VERIFY AND CONFIRM SITE CONDITIONS AND DIMENSIONS PRIOR TO BID SUBMISSION.
- C. REFER TO ELECTRICAL, MECHANICAL, AND STRUCTURAL DRAWINGS FOR ADDITIONAL REMOVAL INFORMATION AND SERVICING INFORMATION (LOCATIONS & DETAILS).
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- F. PROVIDE P. ENG LICENSED IN THE PROVINCE OF ONTARIO STAMPED SHOP DRAWINGS FOR NEW CRANES.
- G. REFER TO STRUCTURAL DRAWINGS FOR NEW SUPPORTING STRUCTURE.
- H. UNLESS OTHERWISE INDICATED ALL NEW WALL & CEILING SURFACES TO BE PRIMED AND PAINTED.
- I. UNLESS OTHERWISE INDICATED ALL NEW STRUCTURAL STEEL TO RECEIVE PAINT ON ALL SIDES TO MATCH EXISTING.
- J. ANY CONSTRUCTION MATERIALS INDICATED TO BE REMOVED AND REPLACED THAT ARE DAMAGED DURING REMOVALS TO BE REPLACED WITH NEW.
- K. CONTRACTOR TO CONFIRM EXISTING SLAB ELEVATIONS PRIOR TO ORDERING & MANUFACTURING OF STRUCTURAL STEEL & CRANE COMPONENTS TO ENSURE NEW CRANE IS LEVEL.

DEMOLITION NOTES

- 1 DEMOLISH PORTION OF GYPSUM AS REQUIRED TO MAKE STEEL ATTACHMENTS.
- 2 EXISTING DUCT WORK TO BE RELOCATED FOR COLUMN REINFORCEMENT WORK. SEE STRUCTURAL FOR DETAILS. CONTRACTOR TO VERIFY EXTENT OF DUCTWORK RELOCATION REQUIRED FOR COLUMN REINFORCEMENT.
- 3 PROTECT EXISTING SURFACES AND MAKE GOOD ANY DAMAGE CAUSED BY BEAM ATTACHMENTS.
- 4 EXISTING PILE AND COLUMN FOOTINGS TO REMAIN.
- 5 EXISTING EXTERIOR WALL ASSEMBLY TO BE REMOVED AT CLOSEST JOINT FULL HEIGHT (FROM SLAB TO ROOF) AND RETAINED FOR REINSTALLATION, TO PROVIDE ADDITIONAL STRUCTURAL WORK. SEE STRUCTURAL FOR DETAILS.
- 6 CONTRACTOR TO IDENTIFY AND RELOCATE EXISTING SERVICES REQUIRED TO COMPLETE STRUCTURAL WORK.

CONSTRUCTION NOTES

- 1 EXISTING EXTERIOR WALL ASSEMBLY TO BE REPLACED TO TIE INTO AND MATCH EXISTING ADJACENT WALL ASSEMBLIES FOLLOWING COLUMNAR STRUCTURAL WORK. SEE STRUCTURAL FOR DETAILS.
- 2 NEW STEEL BEAMS, END STOPS AND DISCONNECT SWITCH. SEE STRUCTURAL FOR DETAILS. PAINT STEEL YELLOW TO MATCH EXISTING CRANE SYSTEMS THROUGHOUT THE BUILDING.
- 3 PATCH AND REPAIR GYPSUM AS REQUIRED, PAINT TO MATCH EXISTING.
- 4 EXISTING DUCTWORK TO BE LOWERED TO SUIT NEW CRANE RUNWAY HEIGHT. HEIGHT AND CLEARANCE REQUIRED TO BE CONFIRMED ON SITE. PATCH AND REPAIR EXISTING GYPSUM BOARD EFFECTED BY CONSTRUCTION WORK. ENSURE OHR FRRE MAINTAINED AROUND ANY PENETRATIONS AFFECTED FROM CONSTRUCTION.
- 5 RECONFIGURE RAIN WATER LEADERS FROM BELOW CEILING JOISTS TO SUIT NEW CRANE RUNWAY HEIGHT.
- 6 REMOVE/REINSTATE DUCTWORK OBSTRUCTING WORK REQUIRED FOR STRUCTURAL COLUMN REINFORCEMENT. REFER TO STRUCTURAL FOR DETAILS. REROUTE CONDUITS AND PROTECT EXISTING EQUIPMENT BELOW AS REQUIRED.

YVES GUINDON
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M. FARID, P. Eng.
Manager, Building Operations & Security

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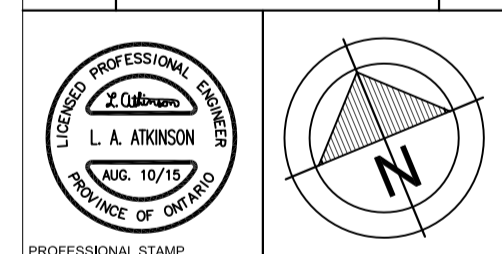
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No.	Revision	Date



A	A
C	B/C

project DAVID FLORIDA LABORATORY project
BUILDING No. 65, SHIRLEY'S BAY, ONTARIO

SWING SPACE
STRUCTURAL UPGRADES &
NEW OVERHEAD CRANE

drawing STRUCTURAL
ISOMETRIC VIEW dessin

designed L. ATKINSON concu

drawn D. KEYES dessine

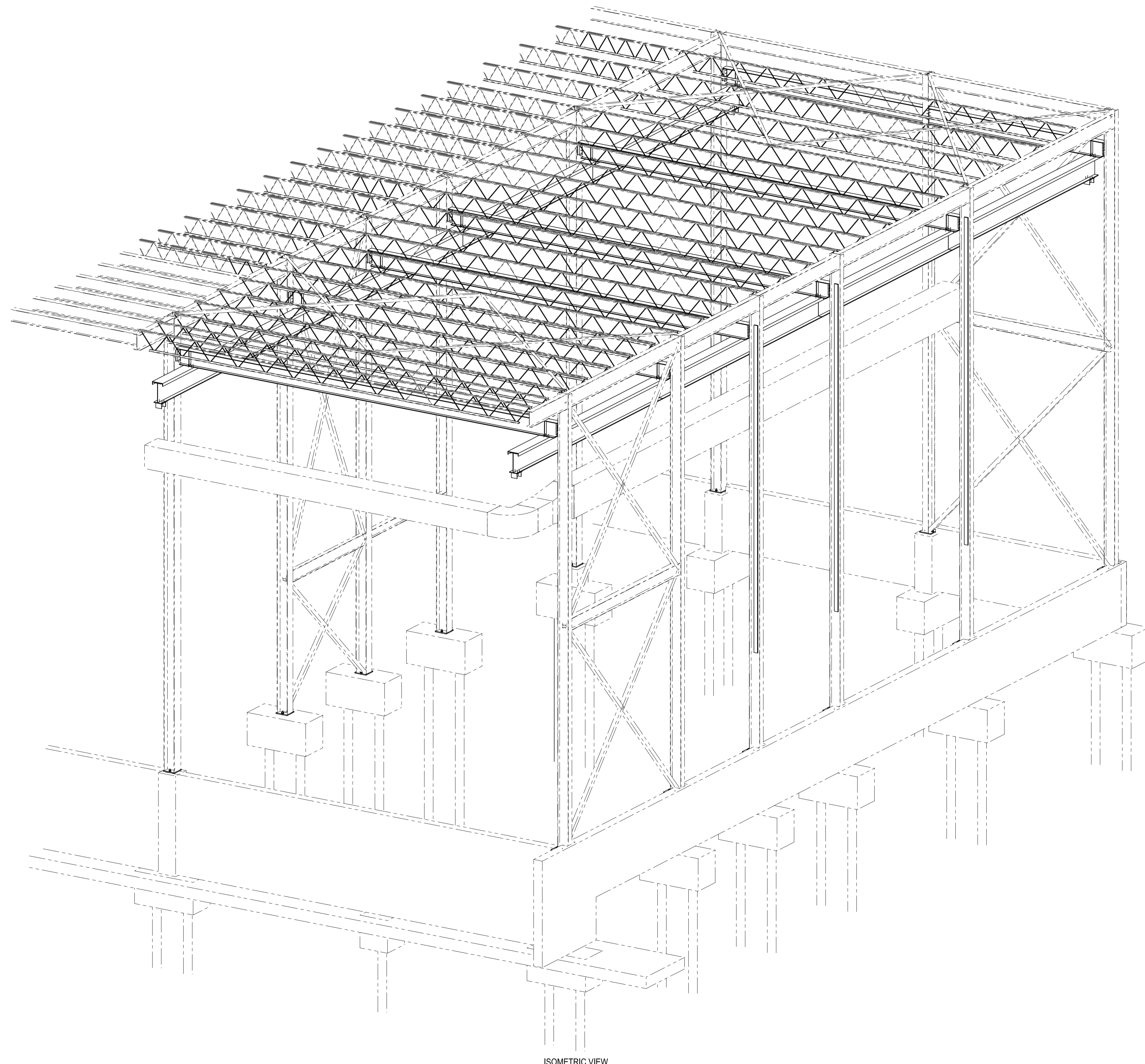
reviewed L. ATKINSON examine

approved approuve

scale 1:50

project no. CSA15-M2a no. du projet

drawing no. S1 no. du dessin

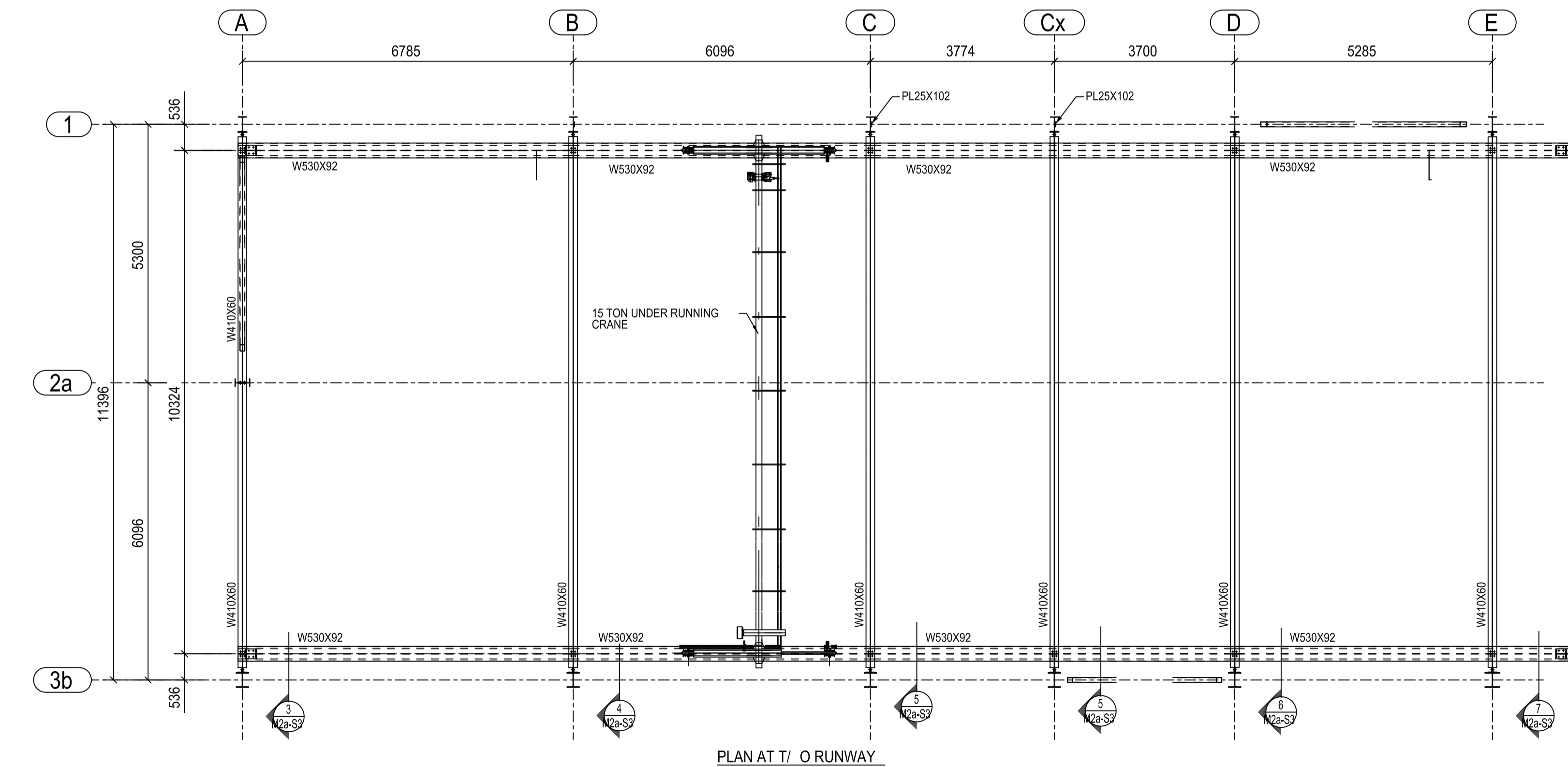
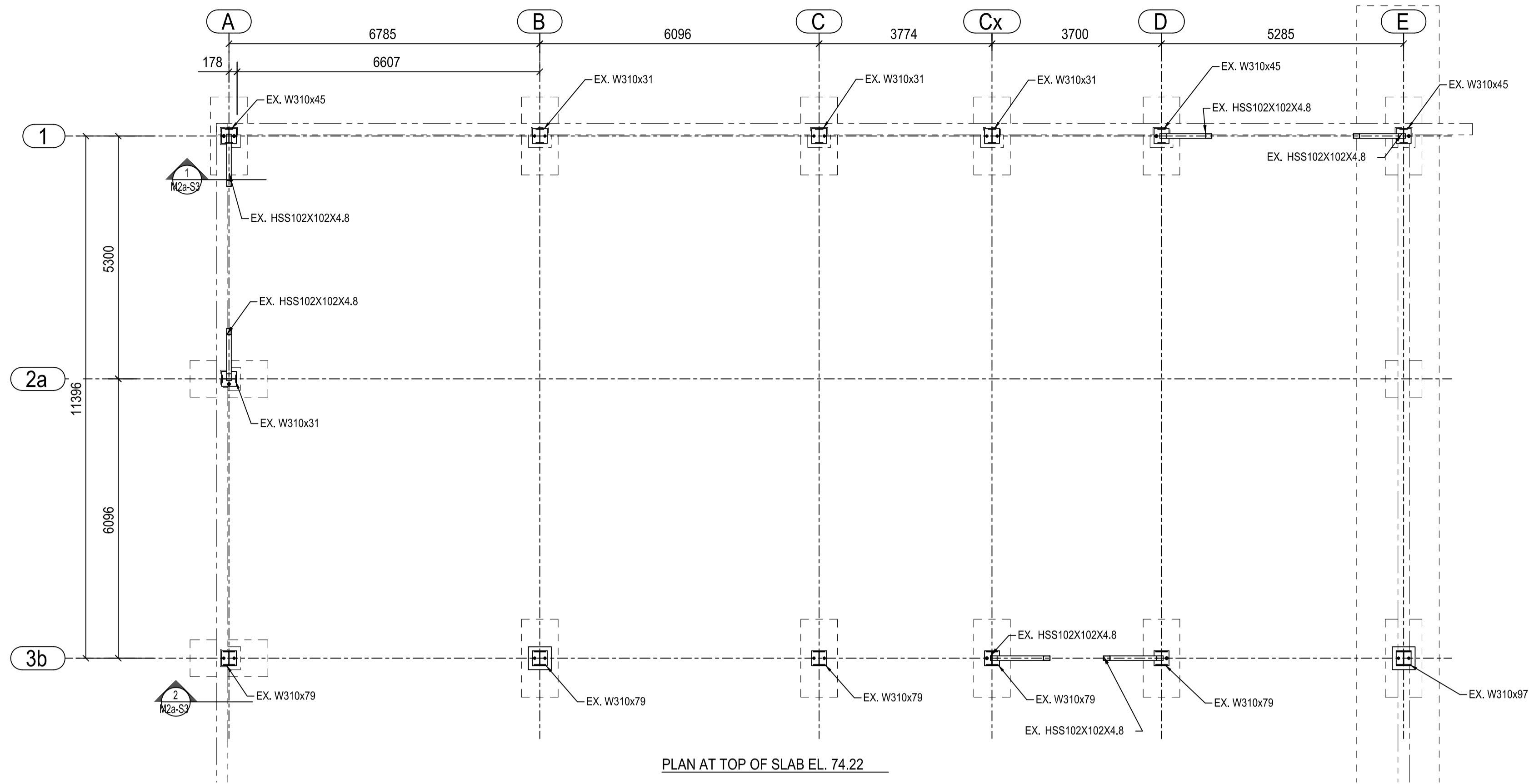


ISOMETRIC VIEW

YVES GUINDON
 Director, Security & Facilities
 M. FARID, P. Eng.
 Manager, Building Operations & Security

LEEKOR
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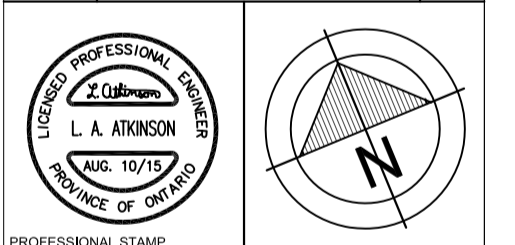
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No.	Revision	Date
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A	detail no.	A
C	no. du détail	C
B	building drawing no.	B
C	no. du dessin	C

project
 DAVID FLORIDA LABORATORY
 BUILDING No. 65, SHIRLEY'S BAY, ONTARIO
 SWING SPACE
 STRUCTURAL UPGRADES &
 NEW OVERHEAD CRANE

drawing
 STRUCTURAL
 PLAN AT FLOOR & RUNWAY

designed	L. ATKINSON	conçu
drawn	D. KEYES	dessiné
reviewed	L. ATKINSON	examiné
approved		approuvé
scale	1:75	

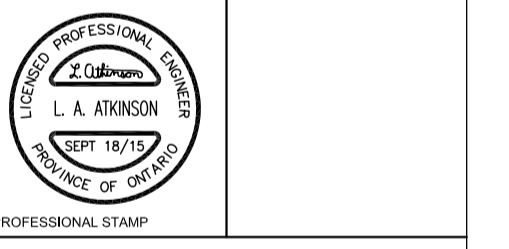
project no.	no. du projet
CSA15-M2a	
drawing no.	no. du dessin
S2	

YVES GUINDON
 Director, Security & Facilities
M. FARID, P. Eng.
 Manager, Building Operations & Security

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No.	Revision	Date

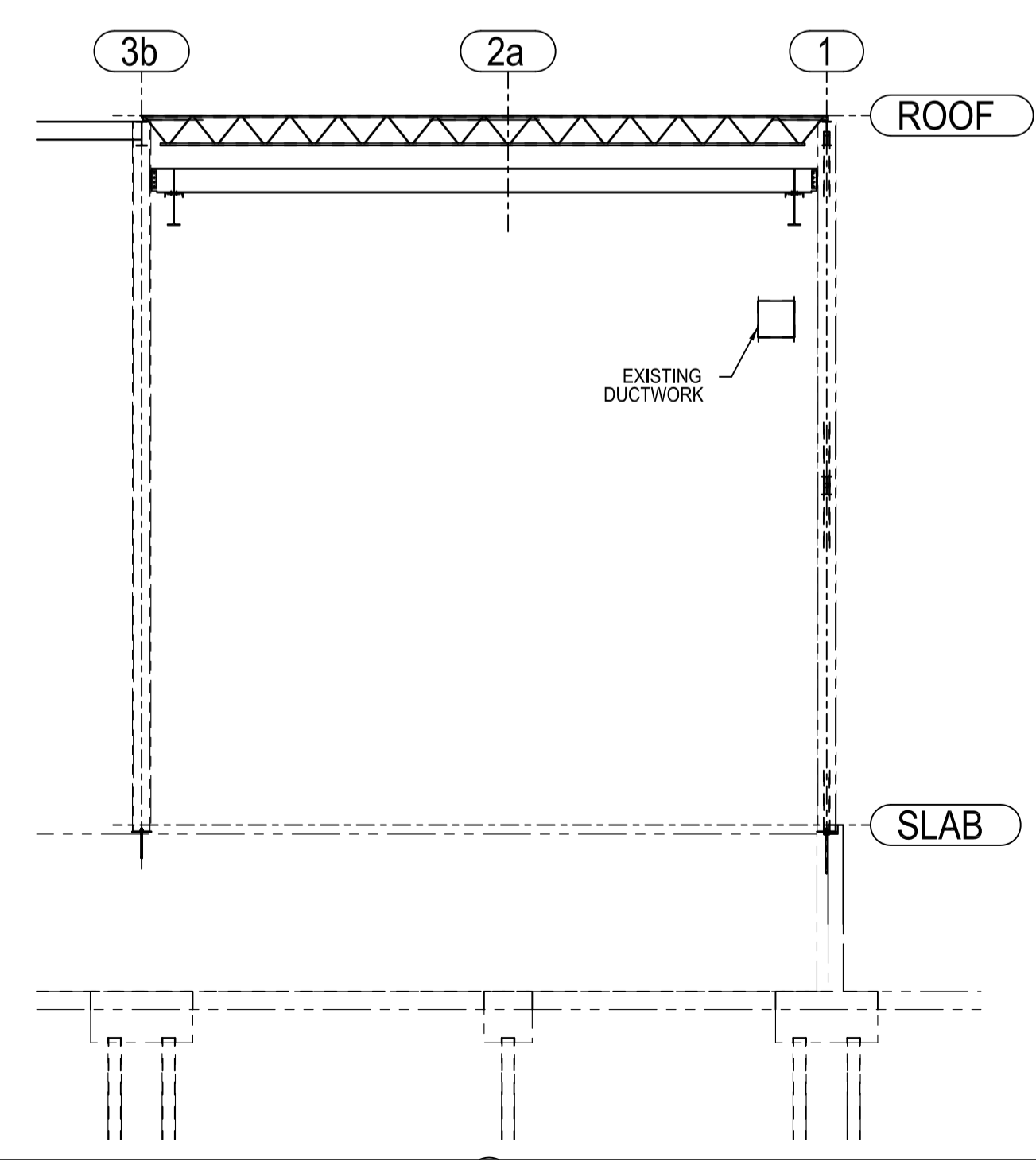
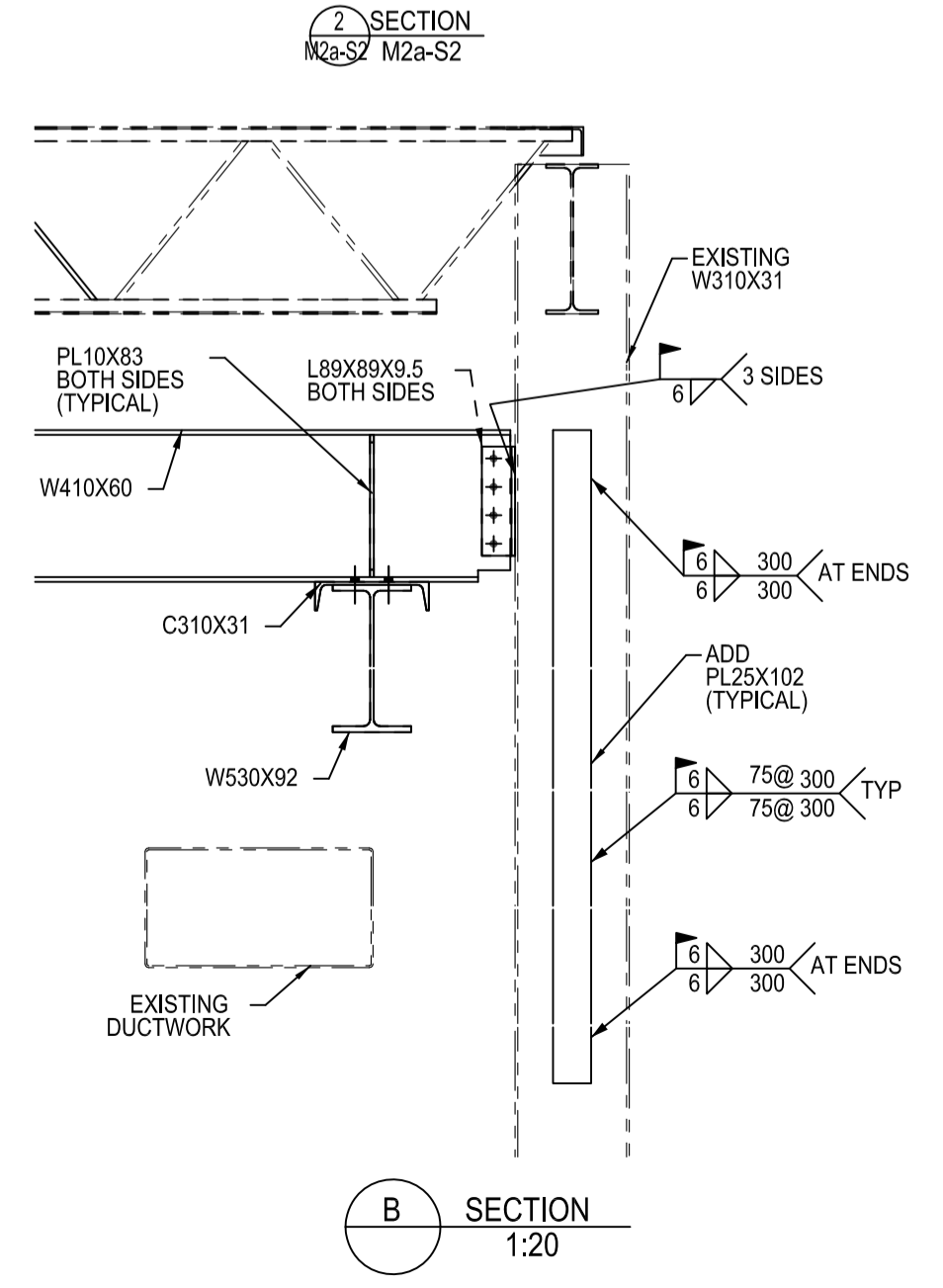
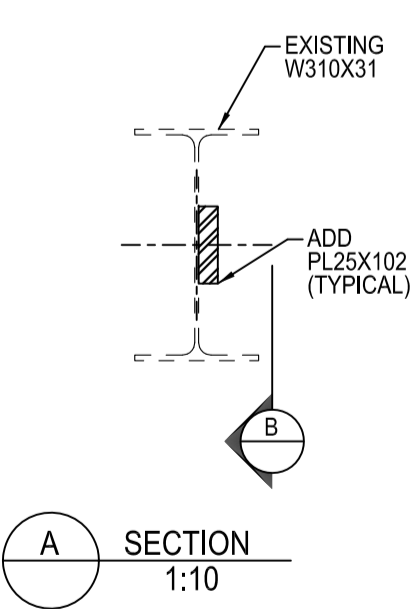
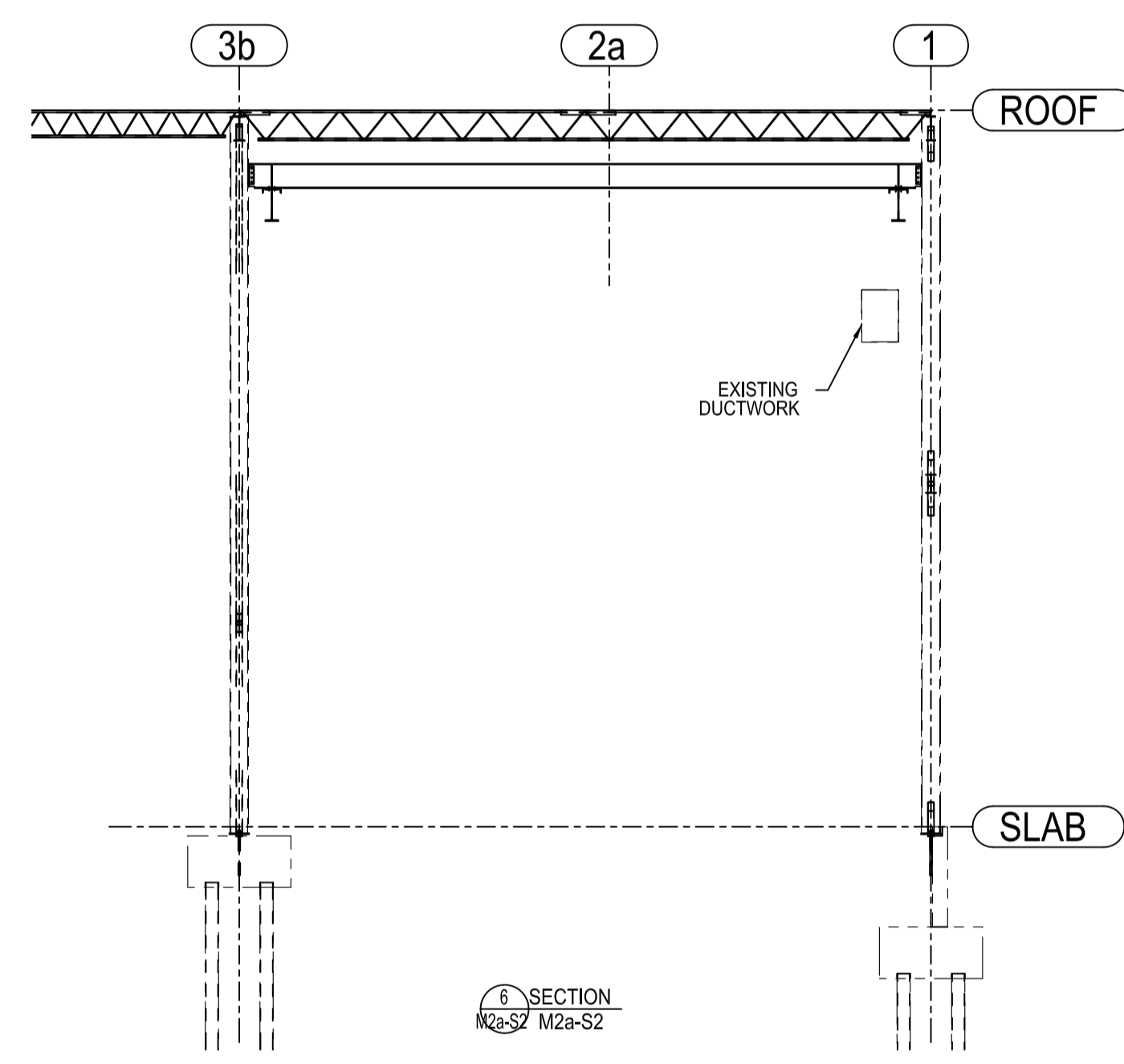
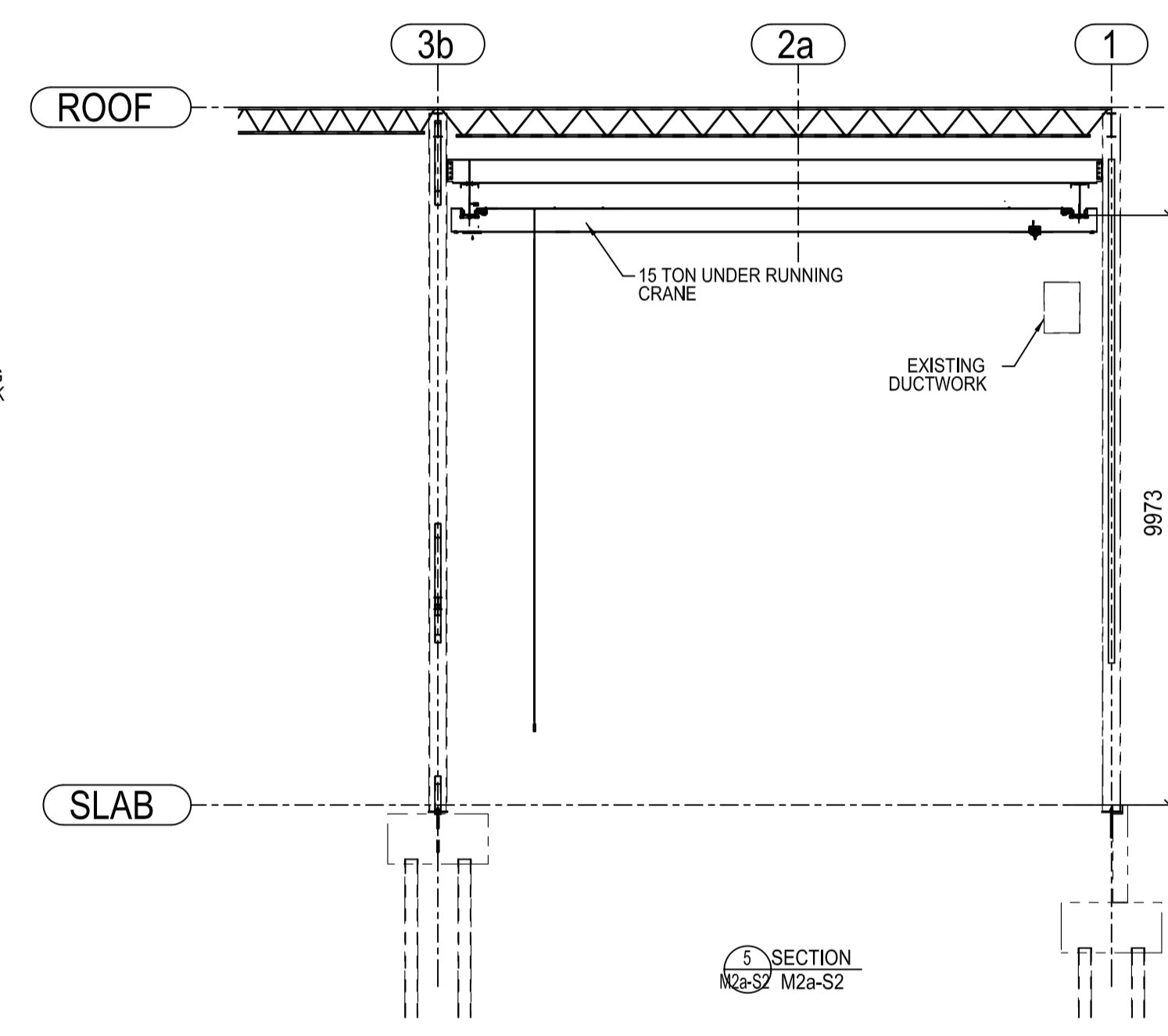
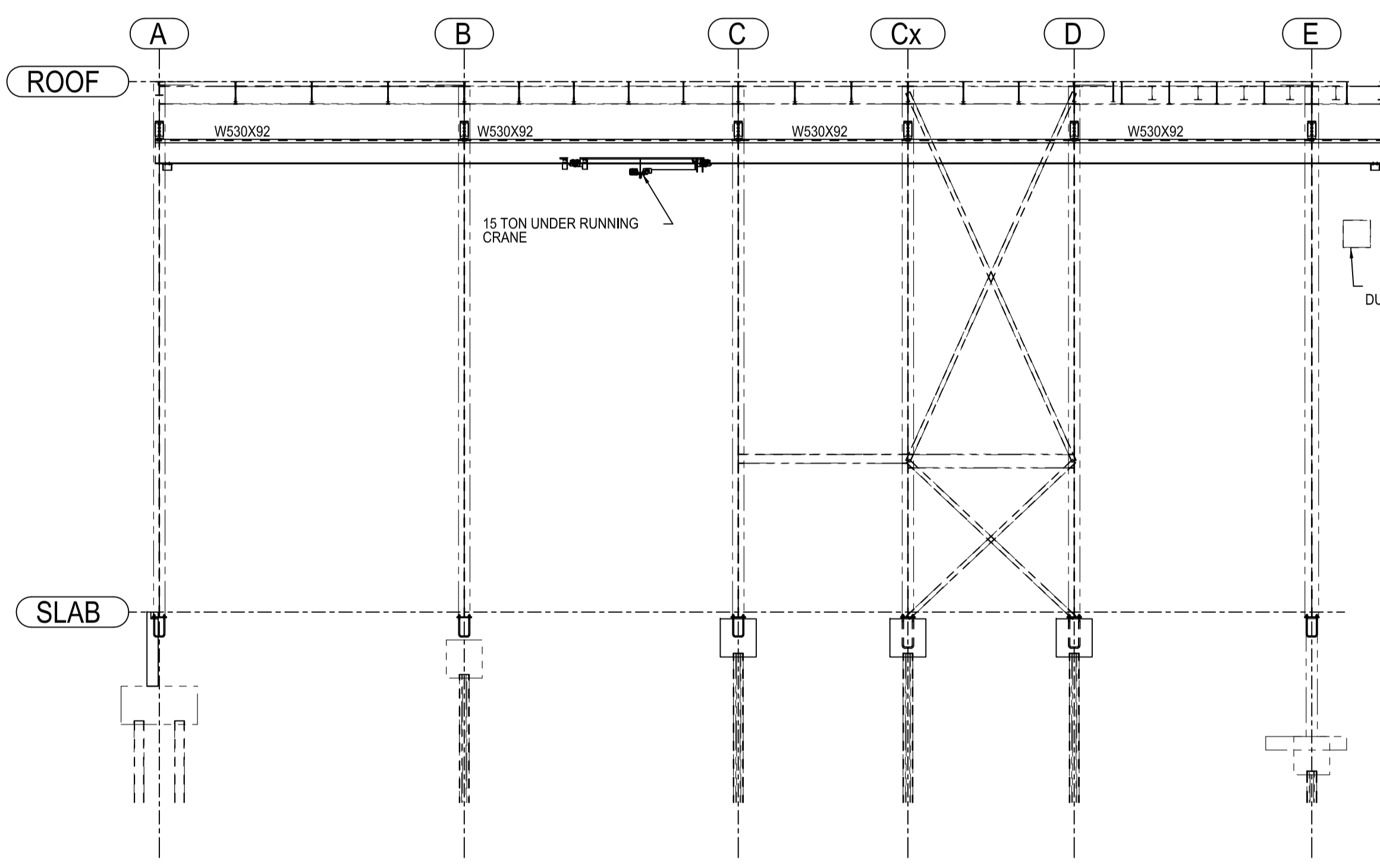
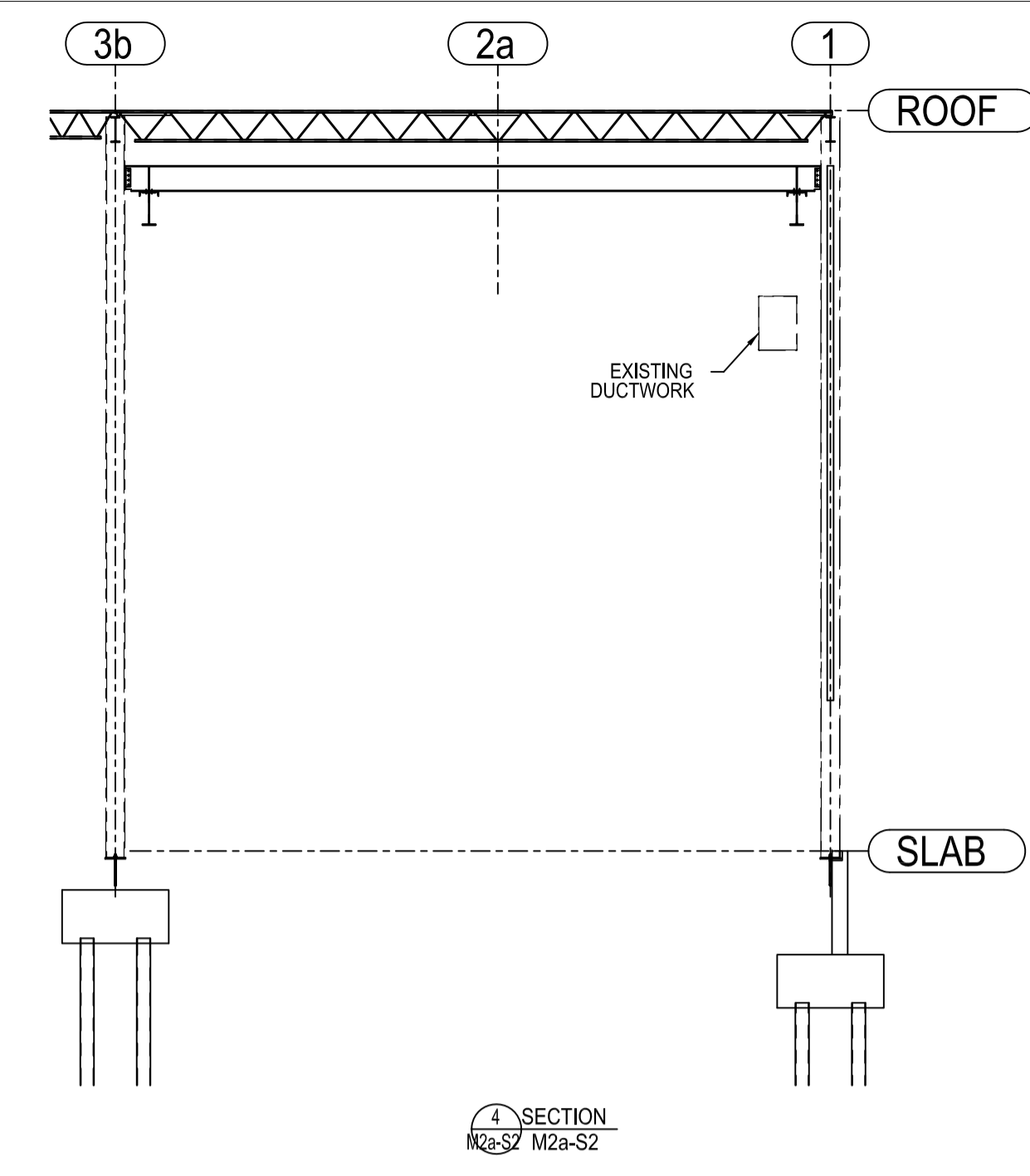
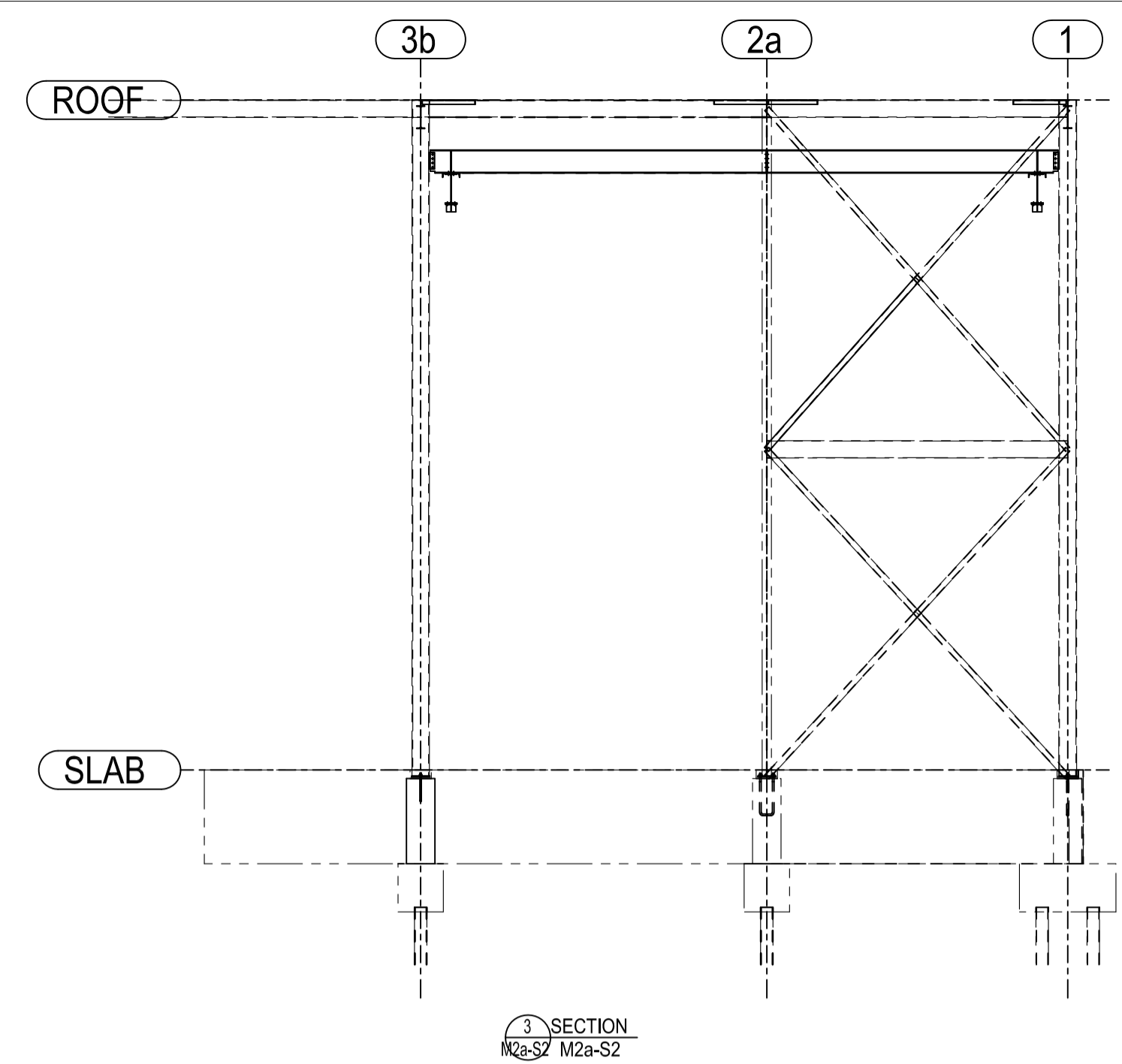
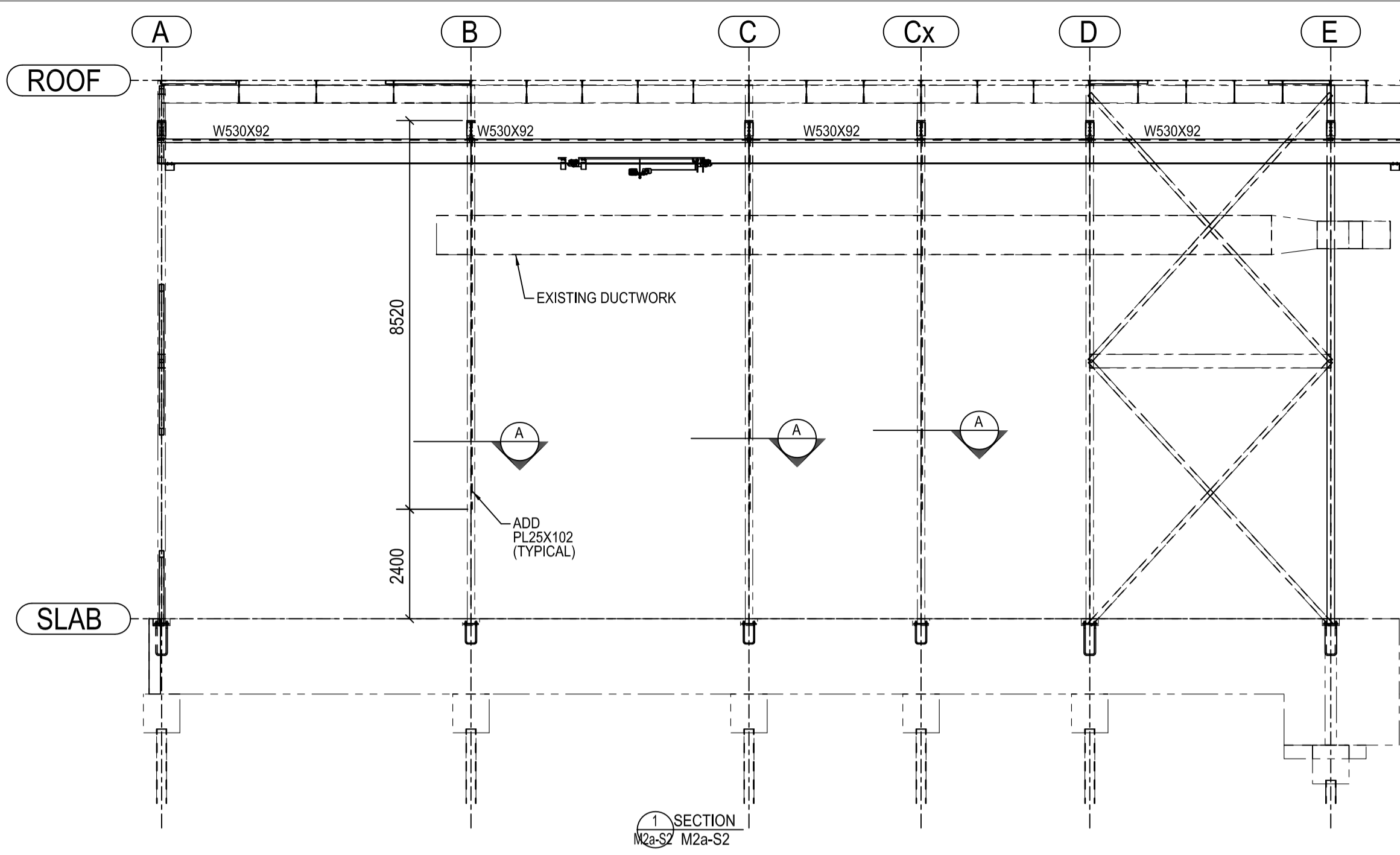


A	A: detail no. no. du detail	A
C	B: location drawing no. sur dessin no.	B/C
	C: drawing no. dessin no.	

project: **DAVID FLORIDA LABORATORY**
 BUILDING No. 65, SHIRLEY'S BAY, ONTARIO
 project: **SWING SPACE**
STRUCTURAL UPGRADES & NEW OVERHEAD CRANE
 drawing: **STRUCTURAL SECTIONS & DETAIL**
 dessin:

designed	L. ATKINSON	conçu
drawn	D. KEYES	dessiné
date		
reviewed	L. ATKINSON	examiné
date		
approved		approuvé
date		
scale	1:100	

project no. **CSA15-M2a** no. du projet
 drawing no. **S3** no. du dessin



ISSUED FOR TENDER
2015/08/28



CSA15-M2a: SWING SPACE STRUCTURAL UPGRADES AND NEW OVERHEAD CRANE

DAVID FLORIDA LABORATORIES

BUILDING 65, 3701 CARLING AVE. OTTAWA, ONTARIO

YVES GUINDON
 Director, Security & Facilities
 M. FARID, P. Eng.
 Manager, Building Operations & Security

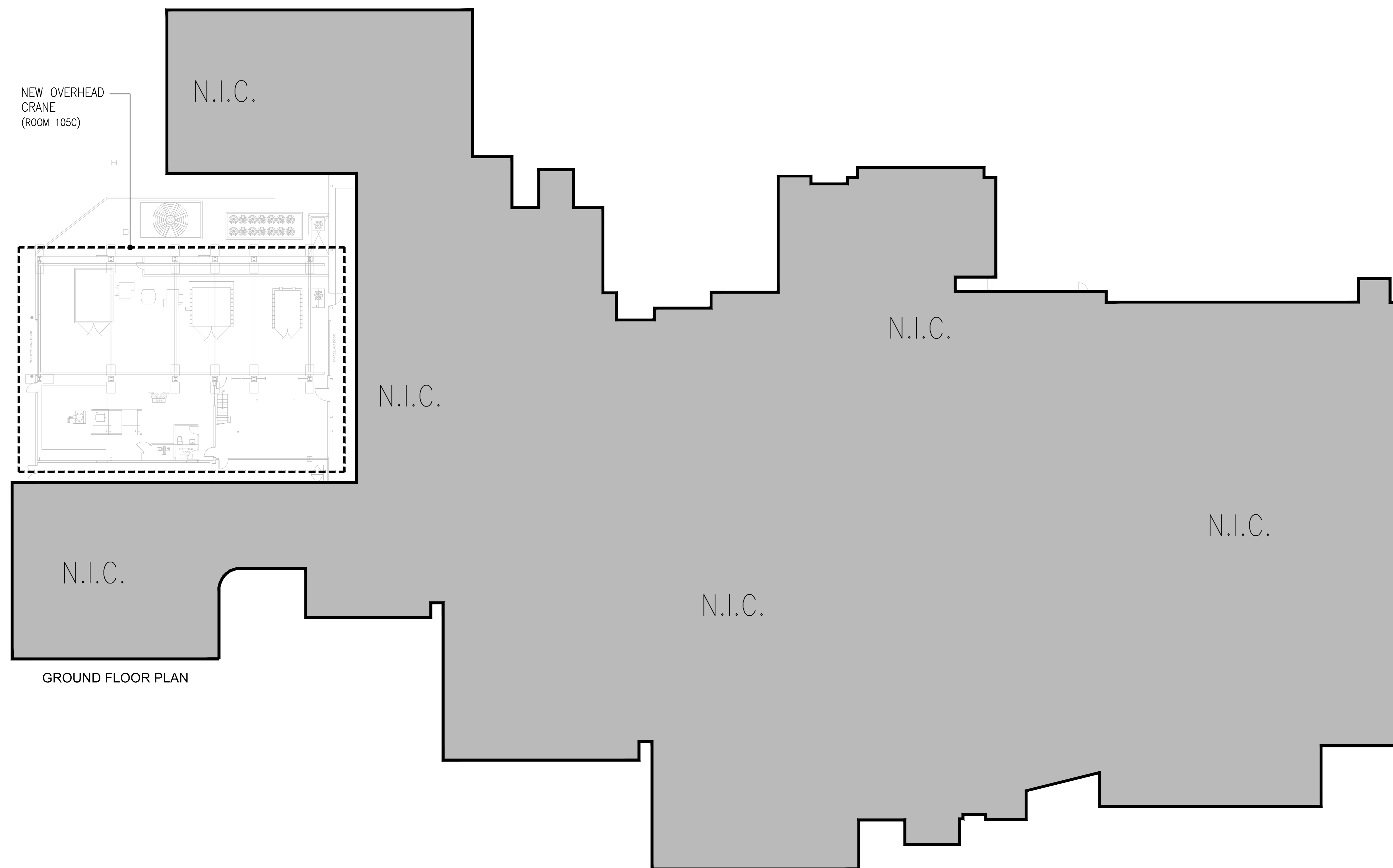


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 www.stantec.com



KEY PLAN



NEW OVERHEAD CRANE (ROOM 105C)

GROUND FLOOR PLAN

DRAWING LIST

- COVER PAGE**
 E000 TITLE, KEY PLAN, LEGEND AND DRAWING LIST
ELECTRICAL
 E001 KEY PLAN AND ELECTRICAL ROOM E2 LAYOUT - ELECTRICAL WORK

LEGEND

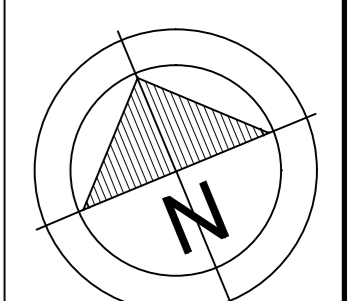
- ER EXISTING TO REMOVE
- NF DISCONNECT 60A, NF = NOT FUSED
- DISTRIBUTION PANEL 600V / 3 PH
- JUNCTION BOX
- CONDUCTOR IDENTIFICATION
- CONDUIT NOMINAL DIAMETER
- SIZE OF BONDING CONDUCTOR IN AWG
- SIZE OF CONDUCTORS IN AWG
- NUMBER OF CONDUCTORS
- AREA OF WORK
- NOT IN CONTRACT
- NEW OR IN SCOPE OF WORK
- TO BE REMOVED
- NOT IN SCOPE OR WORK

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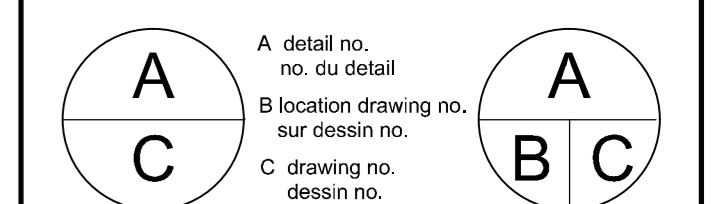
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01	ISSUED FOR TENDER	2015/08/28
00	ISSUED FOR TENDER	2015/07/19
0A	ISSUED 90% FOR COMMENTS	2015/04/23
No.	Revision	Date



PROFESSIONAL STAMP



project
 DAVID FLORIDA LABORATORY
 3701 Carling Avenue Ottawa, ON
 SWING SPACE STRUCTURAL UPGRADES & NEW OVERHEAD CRANE

drawing
 dessin
TITLE, KEY PLAN, LEGEND AND DRAWING LIST

designed	RICHARD ST-LOUIS, C.E.T.	conçu
date	2015-04-20	
drawn	DANIEL GINGRAS	dessiné
date	2015-04-20	
reviewed	CHERYL WHITE, P. ENG.	examiné
date	2015-08-28	
approved	CHERYL WHITE, P. ENG.	approuvé
date	2015-08-28	
scale	AS INDICATED	

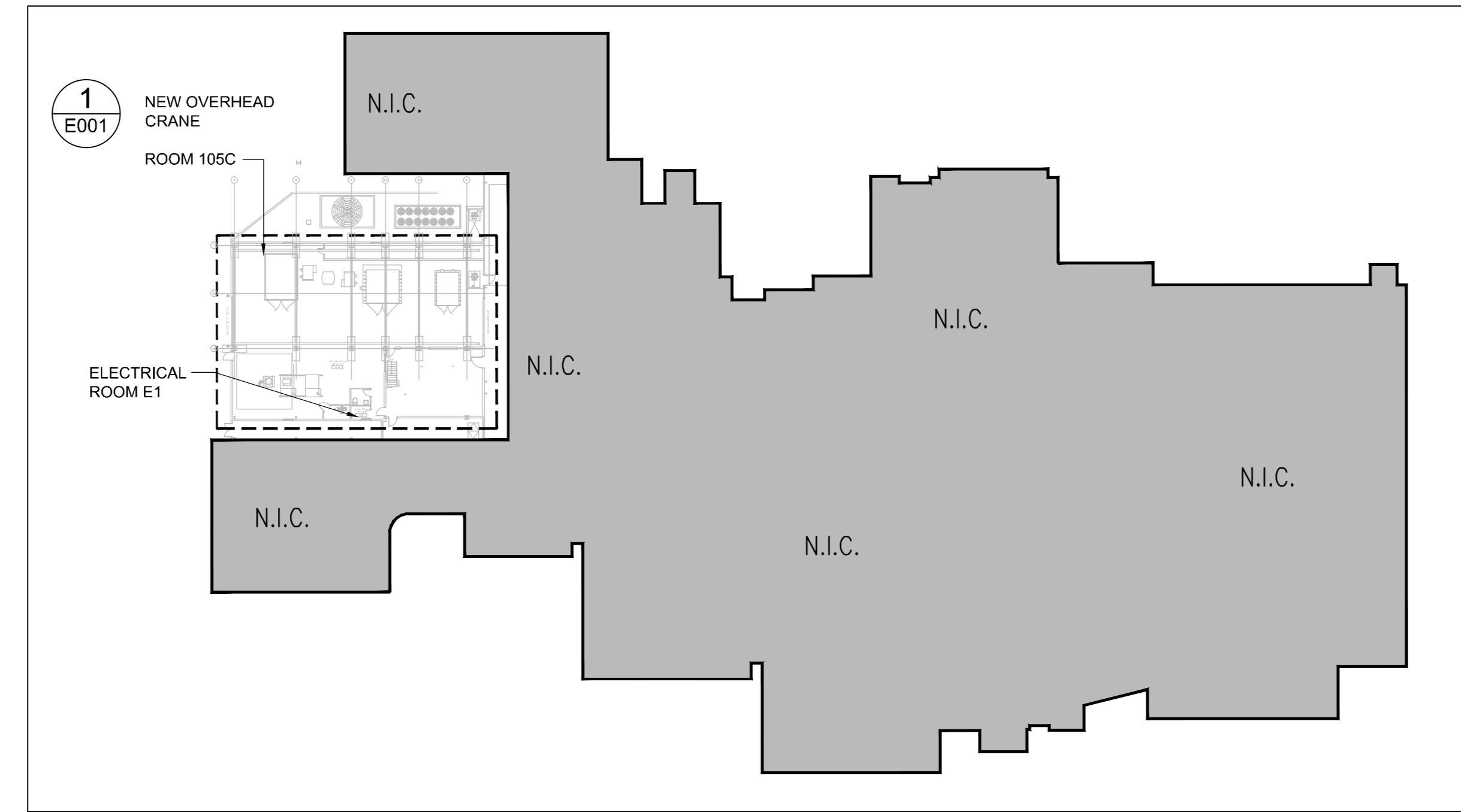
project no. no. du projet
CSA15-M2a
 drawing no. no. du dessin
E000

YVES GUINDON
 Director, Security & Facilities
M. FARID, P. Eng.
 Manager, Building Operations & Security

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 LALANDE + DOYLE ARCHITECTS INC.
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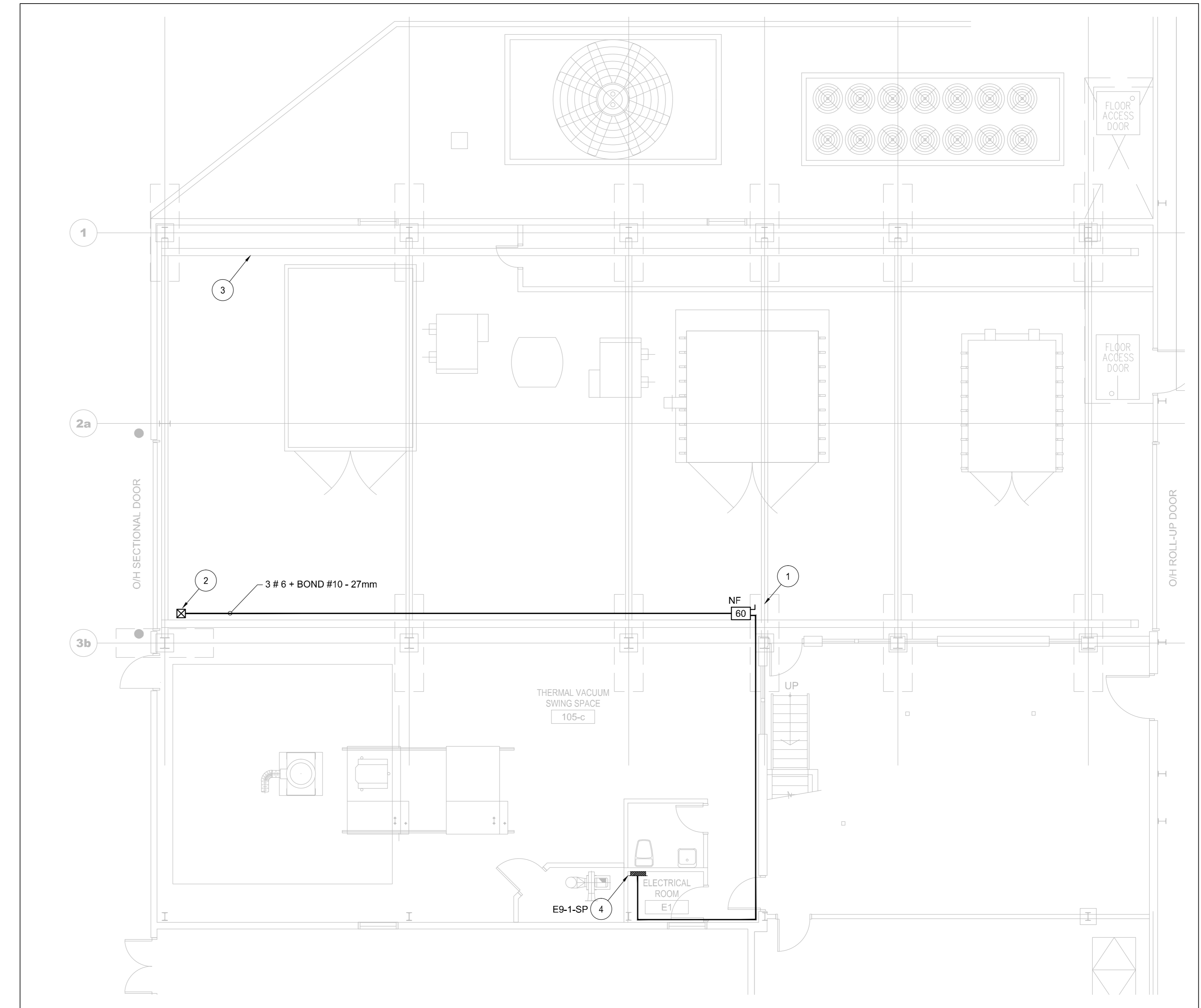
2 GROUND FLOOR KEY PLAN - ELECTRICAL WORK
 E001 SCALE: 1:500

GENERAL NOTES

1. THE OVER HEAD CRANE IS PROVIDED BY THE STRUCTURAL TRADE AND CONNECTED BY THE ELECTRICAL CONTRACTOR. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE BETWEEN DISCIPLINES DURING WORK.

DRAWING NOTES

1. SUPPLY AND INSTALL A NEW 60A / 600V / 3 PH NON-FUSED DISCONNECT FOR THE NEW OVERHEAD CRANE C/W CONDUIT AND WIRING BACK TO SOURCE. THE COLOR OF THE DISCONNECT SHALL BE YELLOW.
2. SUPPLY AND INSTALL A NEW JUNCTION BOX 150mm X 150mm AND CONNECT THE NEW OVERHEAD CRANE. THE LOCATION OF THE JUNCTION BOX SHOWN ON THE DRAWING IS APPROXIMATE. CONFIRM THE EXACT LOCATION ON SITE. COORDINATE WITH THE CRANE INSTALLER. SUPPLY AND INSTALL CONDUIT AND WIRING AS INDICATED BACK TO NEW DISCONNECT SWITCH.
3. NEW 15 TON OVERHEAD CRANE TO BE INSTALLED BY STRUCTURAL TRADE AND CONNECTED BY ELECTRICAL TRADE.
4. EXISTING 600V DISTRIBUTION PANEL TO FEED THE NEW 15 TON O.H. CRANE (WEST SIDE). TAKE CURRENT READINGS OF THIS PANEL AND SUBMIT RESULTS TO THE DEPARTMENTAL REPRESENTATIVE PRIOR TO CONNECTING THE NEW CRANE. SUPPLY AND INSTALL A NEW 60A, 3P BREAKER (SQUARE-D) AND CONNECT TO THE NEW CRANE CIRCUIT. UPDATE PANEL SCHEDULE.



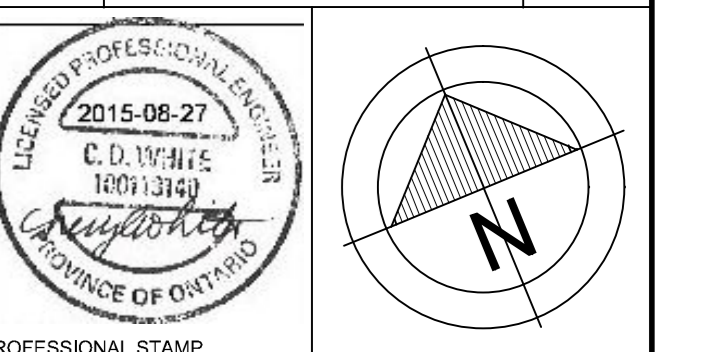
1 NEW 15 TON OVERHEAD CRANE - ELECTRICAL WORK (ROOM 105C)
 E001 SCALE: 1:75

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No.	Revision	Date
01	ISSUED FOR TENDER	2015/08/20
00	ISSUED FOR TENDER	2015/07/19
0A	ISSUED 90% FOR COMMENTS	2015/04/23



A	B	C
A	B	C

project **DAVID FLORIDA LABORATORY**
 3701 Carling Avenue Ottawa, ON
 SWING SPACE
 STRUCTURAL UPGRADES &
 NEW OVERHEAD CRANE

drawing **KEY PLAN AND ELECTRICAL ROOM E2 LAYOUT - ELECTRICAL WORK**

designed	date	drawn	date	reviewed	date	approved	date	scale
RICHARD ST-LOUIS, C.E.T.	2015-04-20	DANIEL GINGRAS	2015-04-20	CHERYL WHITE, P. ENG.	2015-08-26	CHERYL WHITE, P. ENG.	2015-08-28	AS INDICATED

project no.	no. du projet
CSA15-M2a	
drawing no.	no. du dessin
E001	