



BRAMPTON

CITY OF BRAMPTON

Victoria Park Arena

20 Victoria Crescent, Brampton, ON L6T 1E4

ISSUED FOR CONSTRUCTION

WSP Project No: 209-00238-00

Date: 2024/11/08

We see the future more clearly and design for it today.



MECHANICAL DRAWING LIST	
SHEET No.	SHEET NAME
M-000	COVER PAGE - MECHANICAL
M-001	SYMBOL LIST - MECHANICAL
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M-101W	LEVEL 1 - WEST - FIRE PROTECTION
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REV	DATE	DESCRIPTION
PROJECT NO:	209-00238-00	DATE: 2024/11/08
ORIGINAL SCALE:		IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.
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COVER PAGE - MECHANICAL

SHEET NUMBER:

M-000

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DATE OF: 2024/11/08

REV #

13

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C											
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ABBREVIATIONS

ABBREVIATION	DESCRIPTION
S/A	SUPPLY AIR
R/A	RETURN AIR
E/A	EXHAUST AIR
O/A	OUTDOOR AIR
T/A	TRANSFER AIR
T/E	TOILET EXHAUST AIR
G/E	GENERAL EXHAUST AIR
ATD	AIR TRANSFER
DN	DUCT DOWN
AI	ANALOG IN
AO	ANALOG OUT
DI	DIGITAL IN
DO	DIGITAL OUT
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
OED	OPEN-ENDED DUCT
MSP	MOTOR STARTER PANEL
MCC	MOTOR CONTROL CENTER
TCP	TEMPERATURE CONTROL PANEL
LLR	LOW LEVEL RETURN
BOD	BOTTOM OF DUCT
AFF	ABOVE FINISHED FLOOR

HVAC SYMBOLS

SYMBOL	DESCRIPTION
	SUPPLY AIR DIFFUSER
	CIRCULAR SUPPLY AIR DIFFUSER
	SUPPLY AIR LINEAR SLOT DIFFUSER
	SUPPLY AIR REGISTER / GRILLE
	RETURN / EXHAUST AIR GRILLE
	SUPPLY AIR GRILLE
	EXHAUST AIR GRILLE
	RETURN AIR GRILLE
	DOOR GRILLE FOR TRANSFER AIR
	LOUVER
	MOTORIZED DAMPER
	BACKDRAFT DAMPER
	BALANCING DAMPER
	FIRE DAMPER
	COMBINED SMOKE AND FIRE DAMPER
	VAV BOX c/w SILENCER
	VAV BOX c/w SILENCER AND REHEAT COIL
	ACCESS DOOR
	INLINE FAN c/w VIBRATION ISOLATORS AND FLEXIBLE DUCT CONNECTIONS
	WALL-MOUNTED FAN
	FAN
	FAN COIL UNIT
	BOOSTER COIL
	HEAT PUMP
	BYPASS BOX (CONSTANT VOLUME SYSTEM)
	CABINET HEATER
	UNIT HEATER
	VARIABLE SPEED CONTROLLER (115V)
	HUMIDISTAT / HUMIDITY SENSOR
	THERMOSTAT / TEMPERATURE SENSOR
	PRESSURE SENSOR
	CONROL WIRING
	DUCT OR PIPE REDUCER
	ROUND TAKE-OFF FROM ROUND DUCT
	ROUND TAKE-OFF FROM RECTANGULAR DUCT
	RECTANGULAR TAKE-OFF FROM RECTANGULAR DUCT
	SUPPLY AIR OUTLET c/w AIR TURNING VANES
	HUMIDIFIER DISTRIBUTOR
	AIRFLOW / PIPE FLOW DIRECTION
	AIRFLOW DIRECTION
	WALLFIN HEATER (A = TYPE; B = ACTIVE LENGTH IN mm; C = KW)
	GRILLED/DIFFUSER TAG (A = TYPE)
	FAN CONTROLLER
	OCCUPANCY SENSOR

PIPING SYMBOLS

SYMBOL	DESCRIPTION
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	HEATING WATER SUPPLY
	HEATING WATER RETURN
	CHILLED WATER RETURN
	GLYCOL WATER SUPPLY
	GLYCOL WATER RETURN
	CONDENSATE DRAIN
	DRAIN (FROM EQUIPMENT)
	DRAIN (FROM EQUIPMENT)
	DRAIN (FROM EQUIPMENT)
	STEAM (XX: PRESSURE IN PSI)
	CONDENSATE (XX: PRESSURE IN PSI)
	HIGH PRESSURE STEAM
	HIGH PRESSURE CONDENSATE
	L,OW PRESSURE STEAM
	LOW PRESSURE CONDENSATE
	CONDENSER WATER EQUALIZER
	BASIN SWEEPER WATER SUPPLY
	BASIN SWEEPER WATER RETURN
	BOILER FEED WATER
	CONTINUOUS BLOW DOWN
	INTERMITTENT BLOW DOWN
	COMPRESSED AIR
	EMERGENCY VENT
	FUEL OIL SUPPLY
	FUEL OIL RETURN
	NEEDLE VALVE
	LOCKSHIELD GLOBE VALVE
	IN-LINE SIGHT GLASS
	VENTURI FLOW METERING DEVICE
	FLOW MEASURING ORIFICE
	FLEXIBLE PIPE CONNECTION
	DRIP PAN ELBOW
	QUICK CONNECTOR
	PLUG
	COMBINATION VAVLE (SHUT-OFF, CHECK, BALANCING VALVES)
	TWO-WAY BUTTERFLY CONTROL VALVE
	THREE-WAY CONTROL VALVE
	TWO-WAY CONTROL VALVE
	TWO-WAY CONTROL VALVE (LINE VOLTAGE / LOW VOLTAGE)
	THREE-WAY CONTROL VALVE (LINE VOLTAGE / LOW VOLTAGE)

PLUMBING SYMBOLS

SYMBOL	DESCRIPTION
	PUMP DISCHARGE CONTROL VALVE
	ISOLATING / GATE VALVE
	CHECK VALVE
	STRAINER
	GLOBE VALVE
	CIRCUIT BALANCING VALVE
	PRESSURE REDUCING VALVE
	PUMP
	THERMOMETER
	PRESSURE RELIEF VALVE
	PRESSURE INDEPENDENT AUTO-FLOW BALANCING VALVE
	PRESSURE GAUGE
	AUTOMATIC AIR VENT
	PIPE END CAP (THREADED)
	BLIND FLANGE
	FLANGE CONNECTION
	PRESSURE SENSOR
	BUTTERFLY VALVE
	PLUG COCK
	FLOAT OPERATED VALVE

PLUMBING SYMBOLS

SYMBOL	DESCRIPTION
	FLOOR DRAIN
	AREA DRAIN
	ROOF DRAIN
	FUNNEL FLOOR DRAIN
	CATCH BASIN
	SCUPPER DRAIN
	HOSE BIBB
	NON-FREEZE HOSE BIBB
	CLEANOUT (END OF PIPE)
	CLEANOUT (GRADE OR FLOOR LEVEL)
	BACKWATER VALVE (DRAINAGE)
	BACKFLOW PREVENTER
	WATER METER c/w BYPASS
	SHOWER DRAIN
	RUNNING TRAP
	RUNNING TRAP
	VENT THROUGH ROOF

DRAINAGE SPECIALTIES

FLOOR DRAIN (FD)	FINISHED AREAS - J.R. SMITH #2006LA-NB (WASHROOMS) UNFINISHED AREAS - J.R. SMITH #2110Y-B-PO50 (MECHANICAL ROOMS, STORAGE, JANITORS ROOMS)
FUNNEL & FLOOR DRAIN (FFD)	FINISHED AREAS - J.R. SMITH #2006L-A6-3591 UNFINISHED AREAS - J.R. SMITH #2320-3591
SHOWER DRAIN (SD)	SHOWER STALLS - J.R. SMITH #2006LB-6'X6'-NB SHOWER TRENCHS - J.R. SMITH #2005M-NB- (100X300 STRAINER)
HUB DRAIN (HD) CLEANOUT (CO)	FINISHED AREAS - J.R. SMITH #2005A-2645NB UNFINISHED AREAS - J.R. SMITH #2005A-2645 IN FLOOR - J.R. SMITH SERIES 4000 TO SUIT FLOOR FINISH IN CEILING SPACE - J.R. SMITH SERIES 4420
NON FREEZE WALL HYDRANT (NFHB)	J.R. SMITH #5509QTNB
ROOF DRAIN CONVENTIONAL FLOW (RD)	SMALL ENTRANCE CANOPY - J.R. SMITH #1330Y-RC-AD INVERTED ROOF - J.R. SMITH #1330Y-CAN-RC-AD
SCUPPER DRAIN ELEVATOR PIT (SCD)	J.R. SMITH #1510T

PLUMBING SYMBOLS

SYMBOL	DESCRIPTION
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RECIRCULATION
	DOMESTIC COLD WATER
	NON-POTABLE WATER
	SANITARY DRAIN
	PUMPED SANITARY DRAIN
	SANITARY DRAIN (BELOW FLOOR SLAB)
	STORM DRAIN
	PUMPED STORM DRAIN
	STORM DRAIN (BELOW FLOOR LEVEL)
	CONDENSATE DRAIN
	PUMPED CONDENSATE DRAIN

FIRE SYMBOLS

SYMBOL	DESCRIPTION
	UPRIGHT SPRINKLER HEAD
	PENDENT SPRINKLER HEAD
	SEMI-RECESSED SPRINKLER HEAD
	CONCEALED SPRINKLER HEAD
	FIRE EXTINGUISHER (WALL HUNG WITH WALL BRACKET)
	RECESSED FIRE EXTINGUISHER CABINET (c/w EXTINGUISHER)
	FIRE DEPARTMENT CONNECTION
	FIRE HYDRANT
	FLOW SWITCH
	PRESSURE SWITCH
	SUPERVISED OS & Y VALVE
	BALL DRIP
	WET SPRINKLER ALARM CHECK VALVE
	CHECK VALVE
	FIRE MAIN
	DRY SPRINKLER PIPING

ARCHITECTURE 49

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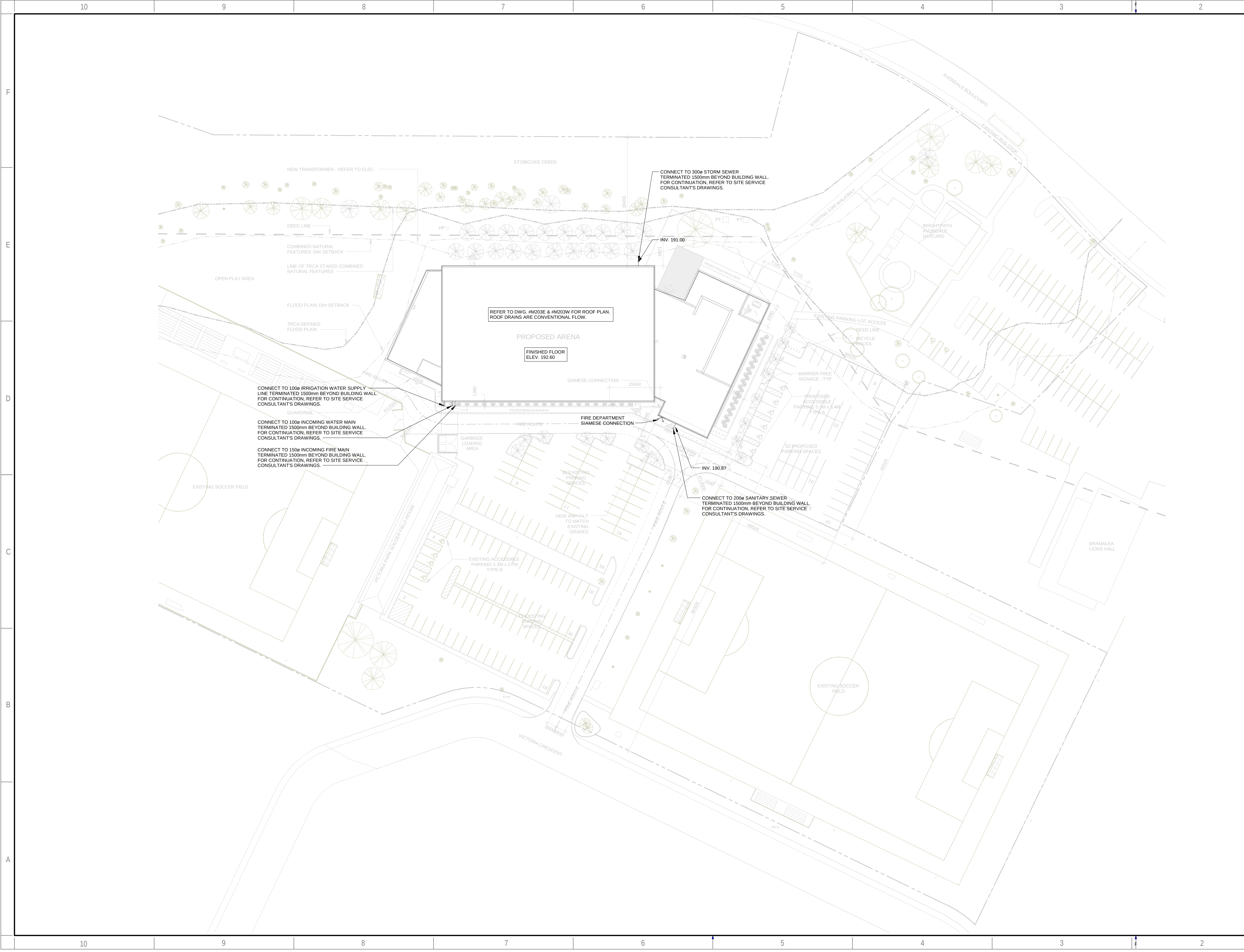
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PROJECT NO: 209-00238-00
ORIGINAL SCALE: 1:1
DESIGNED BY: MK
DRAWN BY: SG/VO
CHECKED BY: MK
DISCIPLINE:
TITLE:
SYMBOL LIST - MECHANICAL
SHEET NUMBER: M-001
SHEET # OF
ISSUE: ISSUED FOR CONSTRUCTION
DATE OF: 2024/11/08
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ARCHITECTURE

49

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PROJECT NO:

209-00238-00

DATE:

2024/11/08

ORIGINAL SCALE:

1 : 500

DESIGNED BY:

KN

DRAWN BY:

JS

CHECKED BY:

KN

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TITLE:

SITE PLAN - MECHANICAL

SHEET NUMBER:

M-002

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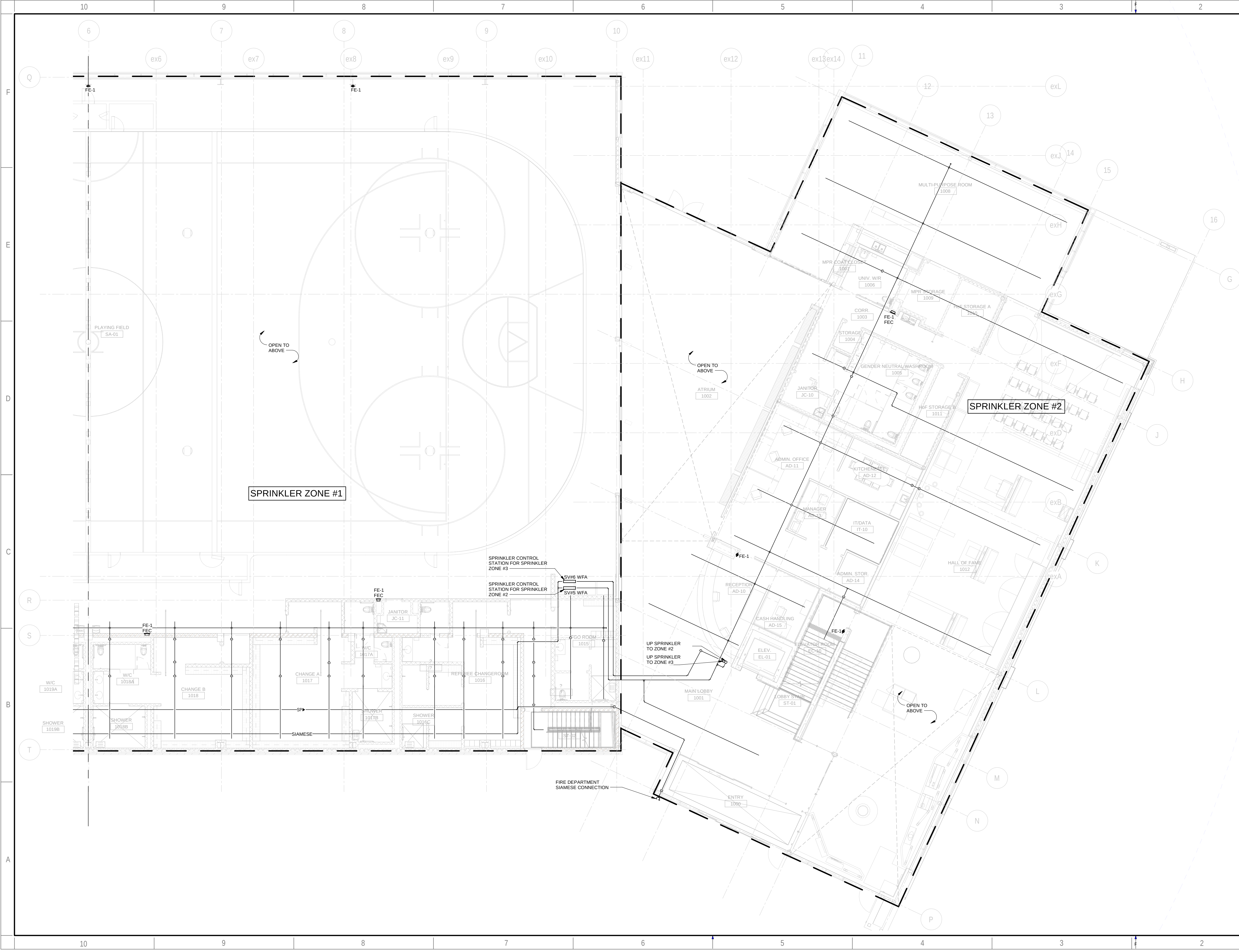
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10



ARCHITECTURE

49

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1: 100	1"

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KN	JS	KN

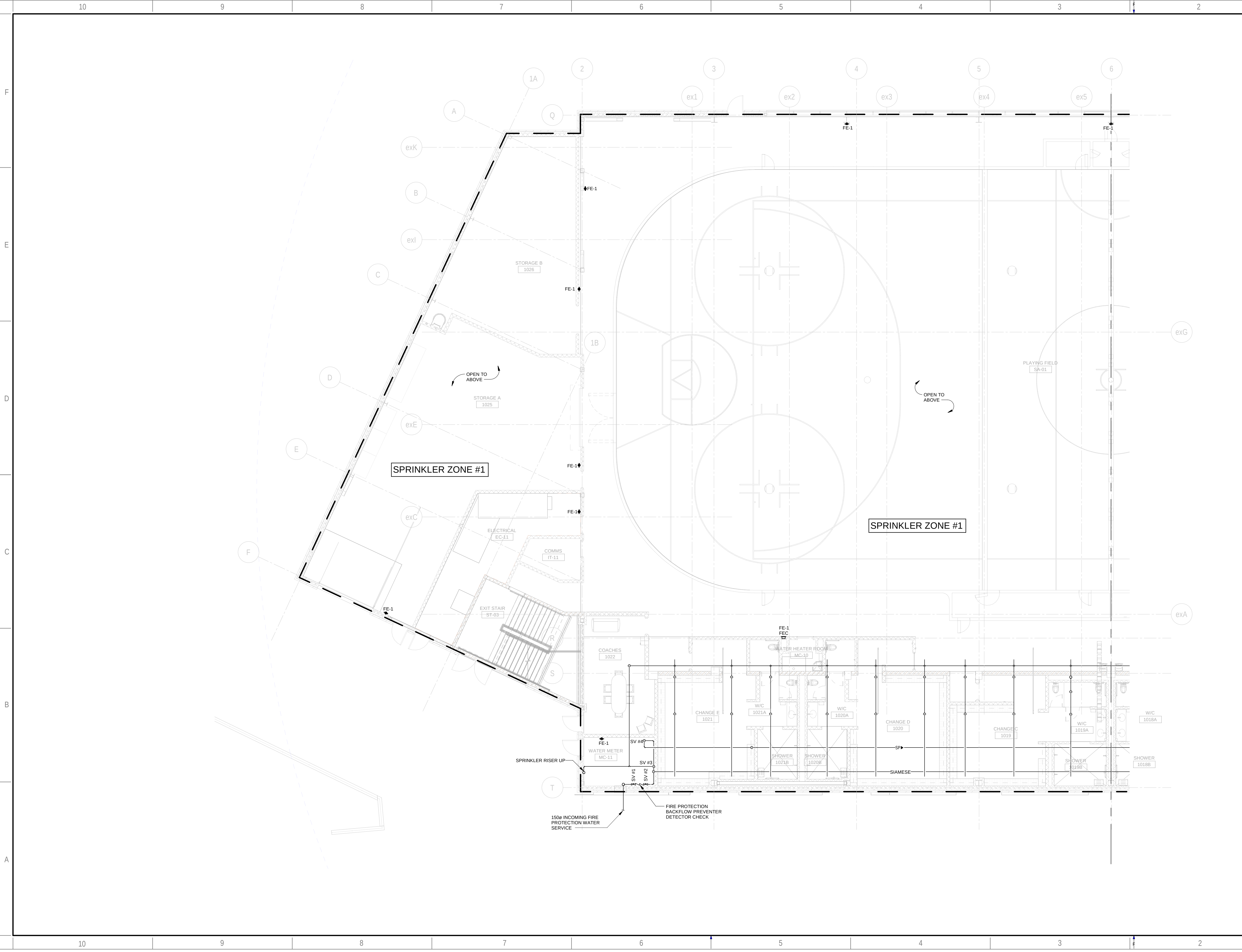
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LEVEL 1 - EAST - FIRE PROTECTION

SHEET NUMBER:
M-101E

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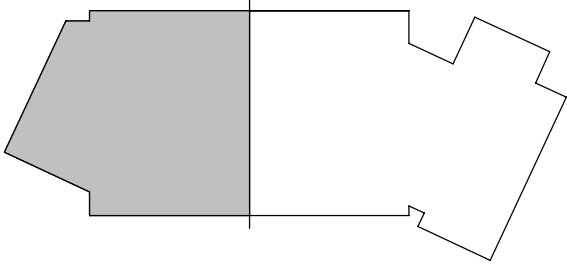
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TITLE:

LEVEL 1 - WEST - FIRE PROTECTION

SHEET NUMBER:

M-101W

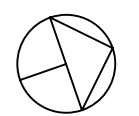
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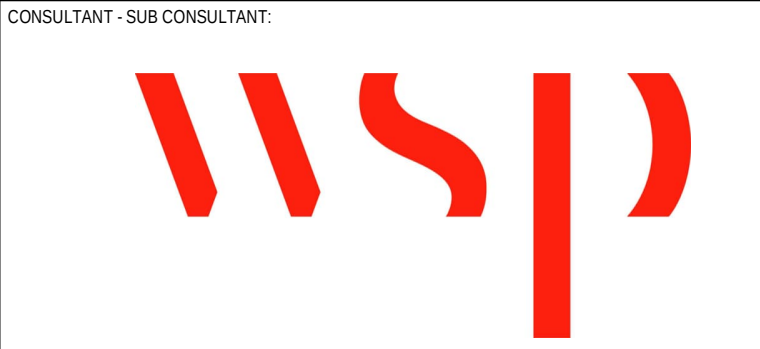
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13



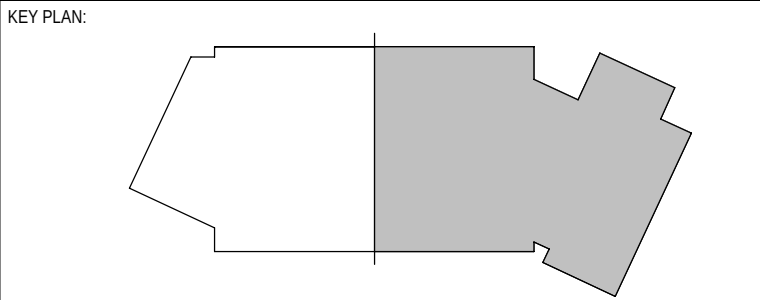
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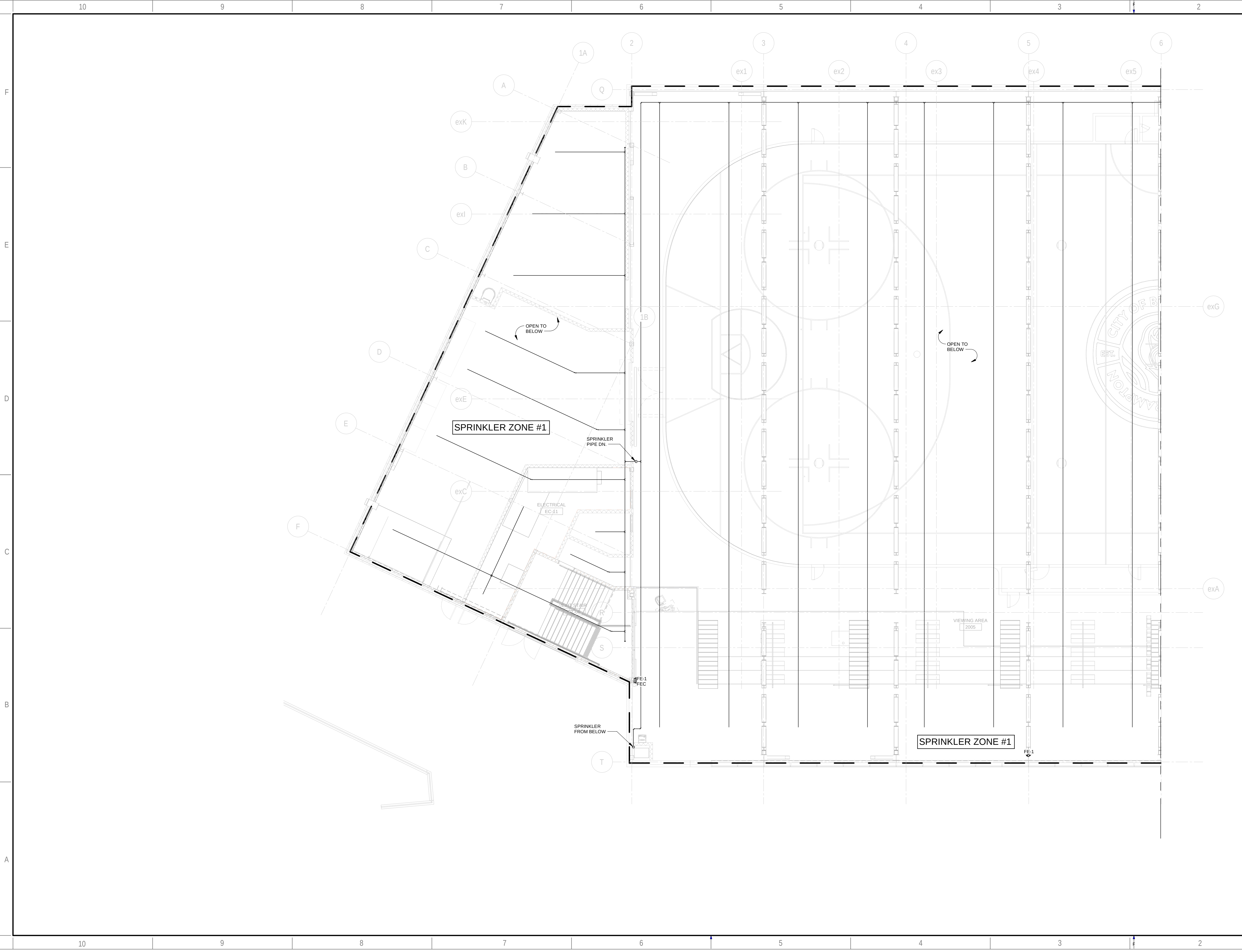
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LEVEL 2 - EAST - FIRE PROTECTION		
SHEET NUMBER:		
M-102E		
SHEET #:	OF	REV #
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DATE OF: 2024/11/08		



ARCHITECTURE | 49

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DESIGNED BY: KN	1"
DRAWN BY: JS	
CHECKED BY: KN	

DISCIPLINE:

TITLE:

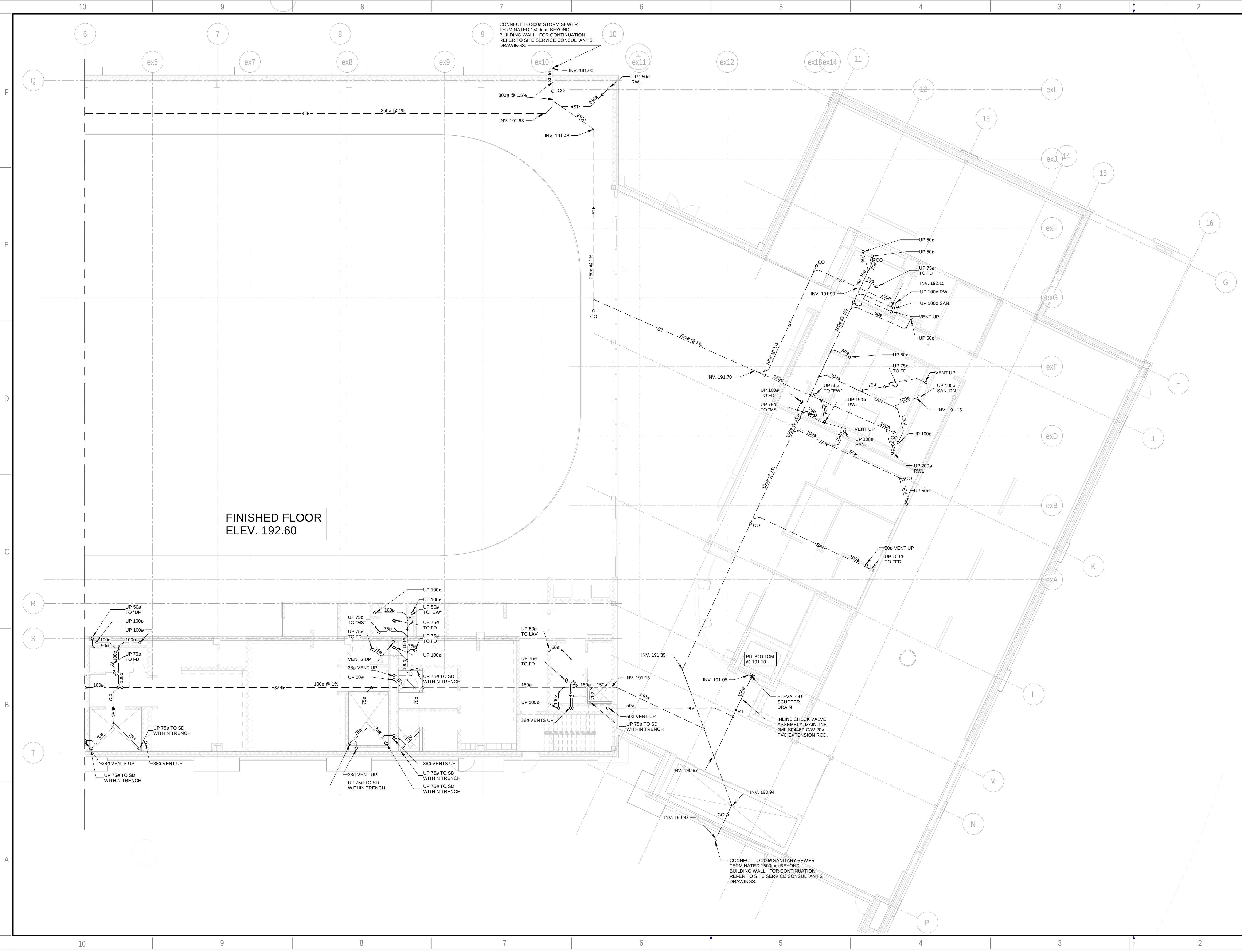
LEVEL 2 - WEST - FIRE PROTECTION

SHEET NUMBER:

M-102W

SHEET #: ISSUED FOR CONSTRUCTION	OF: 	REV #: 13
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DATE OF: 2024/11/08



ARCHITECTURE

49

CONSULTANT - SUB CONSULTANT:

SEAL:

CUSTOMER:

BRAMPTON
CITY OF BRAMPTON

CUSTOMER REF. #:

PROJECT:

Victoria Park Arena
20 Victoria Crescent, Brampton, ON L6T 1E4

KEY PLAN:

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REV	DATE	DESCRIPTION
13	2024/11/08	ISSUED FOR CONSTRUCTION
12	2024/05/29	ISSUED FOR TENDER
11	2023/10/27	ISSUED FOR TENDER
10	2023/09/22	ISSUED FOR TENDER
9	2022/08/15	ISSUED FOR BUILDING PERMIT
8	2022/08/05	ISSUED FOR TENDER - FINAL
7	2022/04/13	ISSUED FOR TENDER
6	2022/03/25	ISSUED FOR BUILDING PERMIT
5	2022/03/02	ISSUED FOR TENDER REVIEW
4	2021/11/26	REISSUED FOR 90% REVIEW
3	2021/11/19	ISSUED FOR TENDER REVIEW
2	2021/09/27	ISSUED FOR PROGRESS REVIEW
1	2021/08/30	ISSUED FOR 60%DD

PROJECT NO:
209-00238-00

ORIGINAL SCALE:
1: 100

DESIGNED BY:
KN

DRAWN BY:
JS

CHECKED BY:
KN

DISCIPLINE:

DATE:
2024/11/08

IF THIS BAR IS NOT
1" LONG, ADJUST
YOUR PLOTTING SCALE.
1"

TITLE:

UNDERGROUND - EAST - PLUMBING

SHEET NUMBER:

M-200E

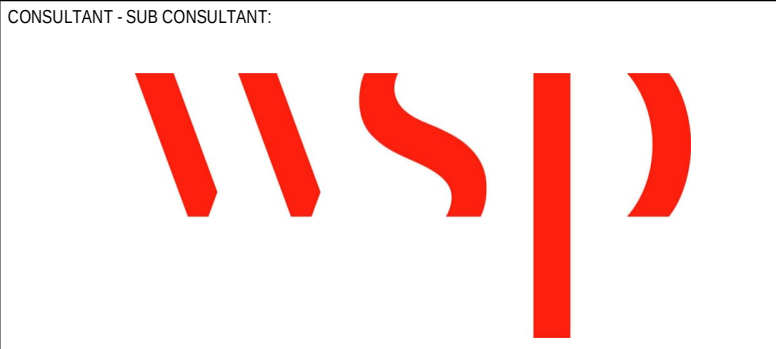
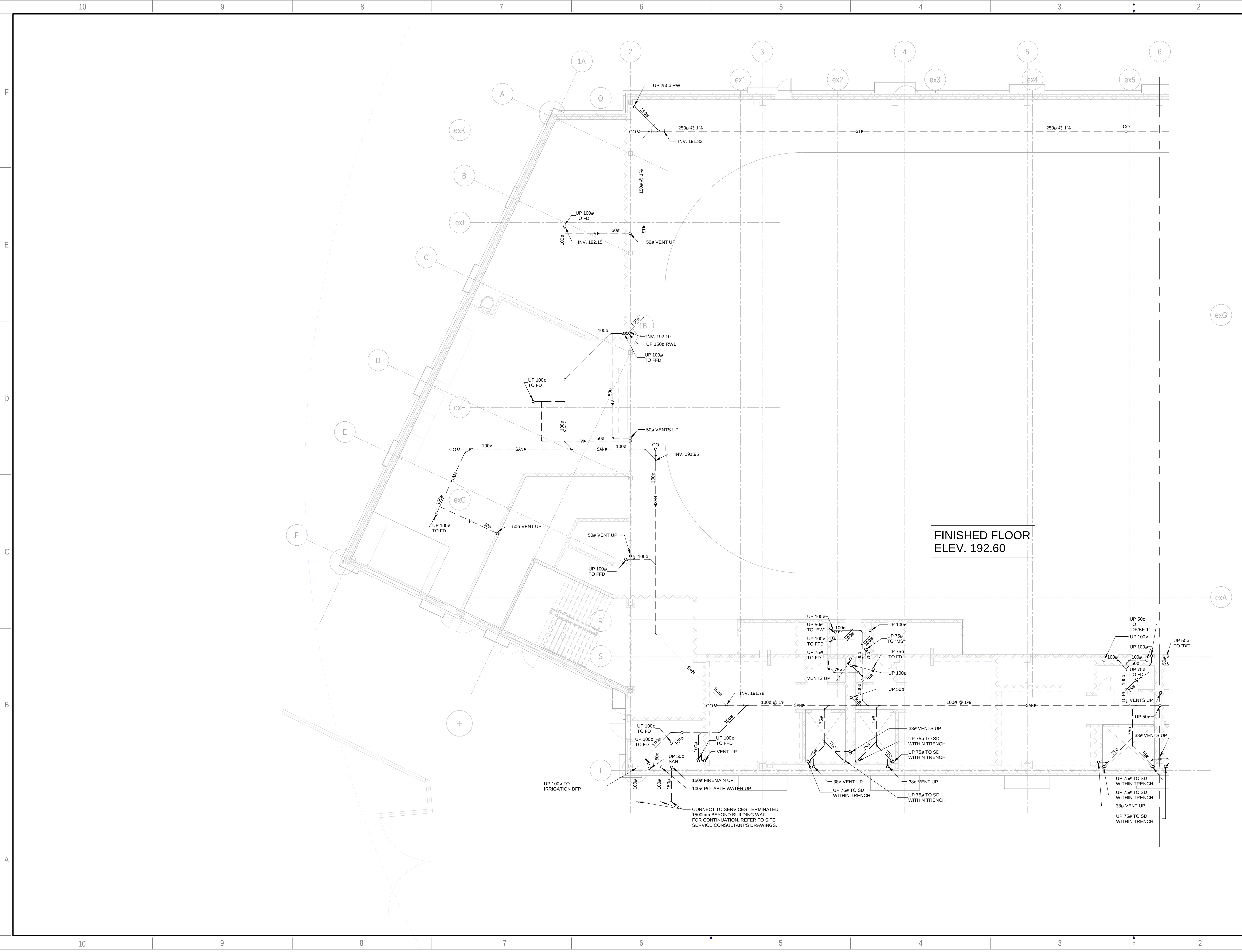
ISSUE:

ISSUED FOR CONSTRUCTION

REV #:

13

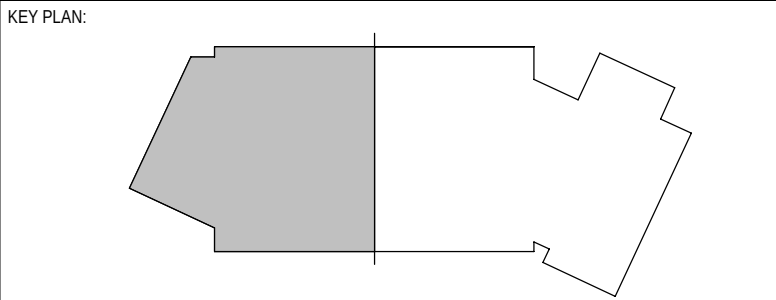
DATE OF: 2024/11/08



SEAL:

CLIENT:
BRAMPTON
CITY OF BRAMPTON

CLIENT REF. #:
PROJECT:
Victoria Park Arena
20 Victoria Crescent, Brampton, ON L6T 1E4



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2	2021/09/27	ISSUED FOR PROGRESS REVIEW
1	2021/09/30	ISSUED FOR 60%DD

PROJECT NO: 209-00238-00	DATE: 2024/11/08
ORIGINAL SCALE: 1: 100	IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.
DESIGNED BY: KN	1"
DRAWN BY: JS	
CHECKED BY: KN	

DISCIPLINE:	
TITLE: UNDERGROUND - WEST - PLUMBING	
SHEET NUMBER: M-200W	
ISSUE: ISSUED FOR CONSTRUCTION	REV #: 13
DATE OF: 2024/11/08	

CONSULTANT - SUB CONSULTANT:



SEAL:

CLIENT:



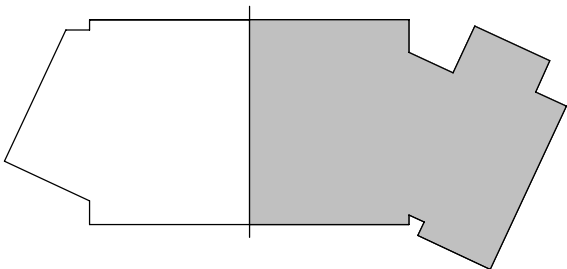
CLIENT REF. #:

PROJECT:

Victoria Park Arena

20 Victoria Crescent, Brampton, ON L6T 1E4

KEY PLAN:



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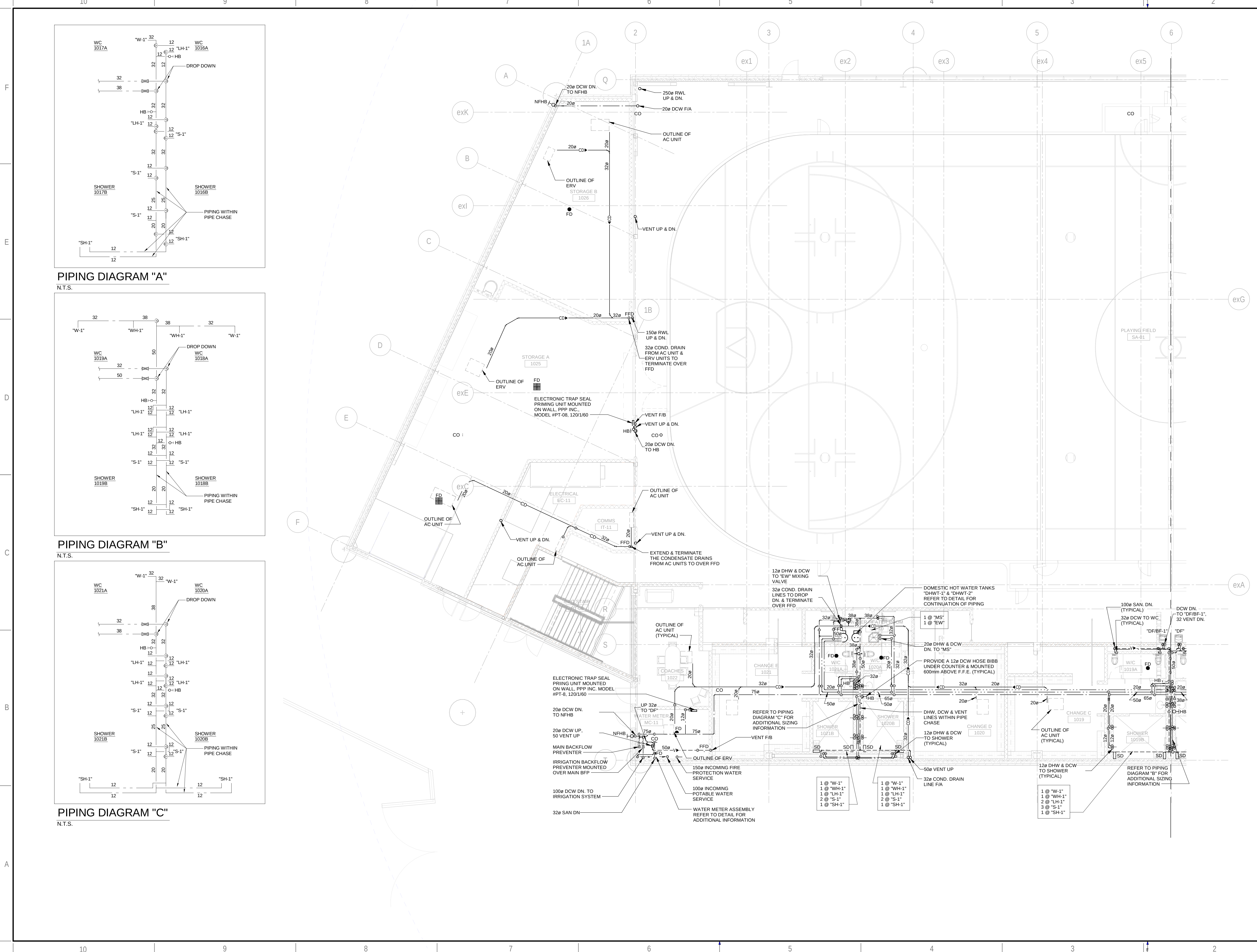
ISSUED FOR - REVISION:

13	2024/11/08	ISSUED FOR CONSTRUCTION
12	2024/05/29	ISSUED FOR TENDER
11	2023/10/27	ISSUED FOR TENDER
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1	2021/09/30	ISSUED FOR 60%DD

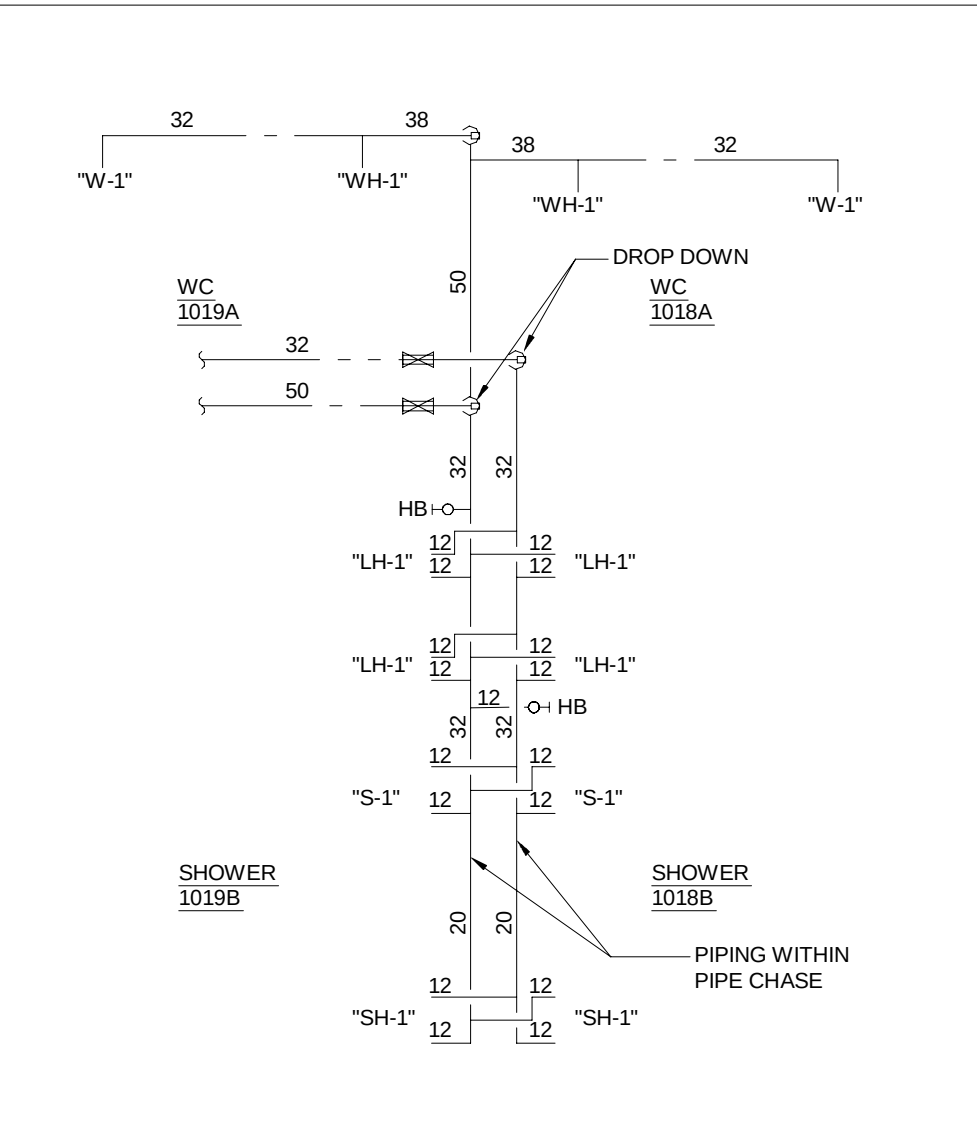
PROJECT NO:	209-00238-00	DATE:	2024/11/08
ORIGINAL SCALE:	1:100	IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.	1"
DESIGNED BY:	KN		
DRAWN BY:	JS		
CHECKED BY:	KN		
DISCIPLINE:			

LEVEL 1 - EAST - PLUMBING

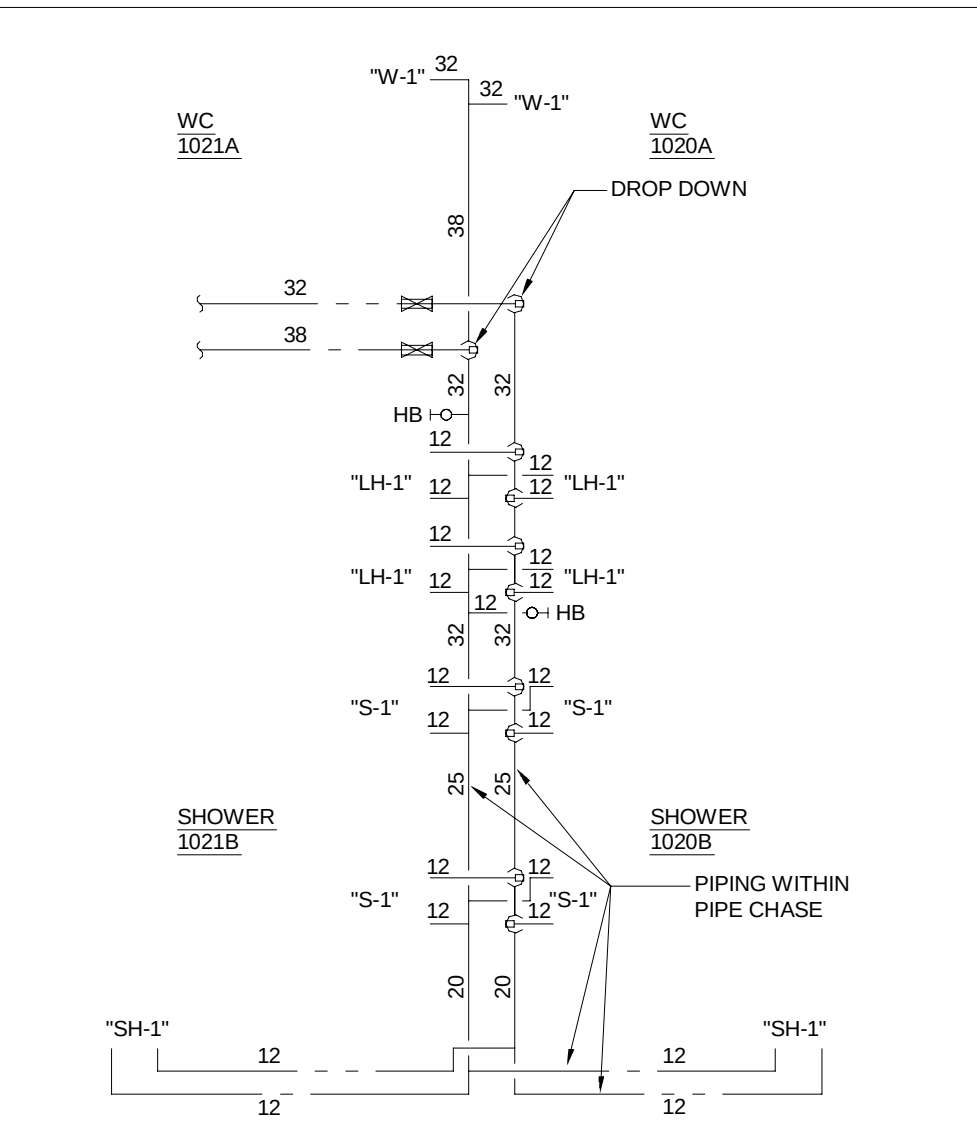
SHEET NUMBER:	M-201E
ISSUE:	ISSUED FOR CONSTRUCTION
DATE OF:	2024/11/08
REV #	13



PIPING DIAGRAM "A"
N.T.S.



PIPING DIAGRAM "B"
N.T.S.



PIPING DIAGRAM "C"
N.T.S.

CONSULTANT - SUB CONSULTANT:



SEAL:

CLIENT:



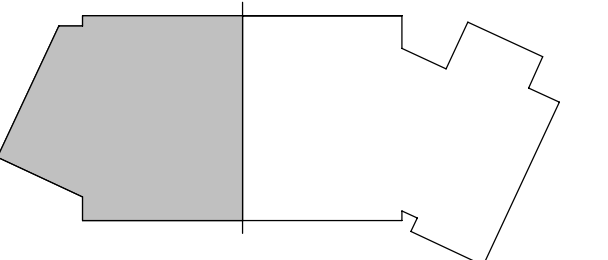
CLIENT REF. #:

PROJECT:

Victoria Park Arena

20 Victoria Crescent, Brampton, ON L6T 1E4

KEY PLAN:



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2	2021/09/27	ISSUED FOR PROGRESS REVIEW
1	2021/09/30	ISSUED FOR 60%DD

PROJECT NO.	DATE
209-00238-00	2024/11/08
ORIGINAL SCALE:	DATE
As indicated	2024/11/08
DESIGNED BY:	DATE
KN	2024/11/08
DRAWN BY:	DATE
JS	2024/11/08
CHECKED BY:	DATE
KN	2024/11/08
DISCIPLINE:	DATE
	2024/11/08

LEVEL 1 - WEST - PLUMBING

SHEET NUMBER	OF	REV #
M-201W	1	13
ISSUE	DATE	REV #
ISSUED FOR CONSTRUCTION	2024/11/08	13

CONSULTANT - SUB CONSULTANT:



SEAL:

CLIENT:



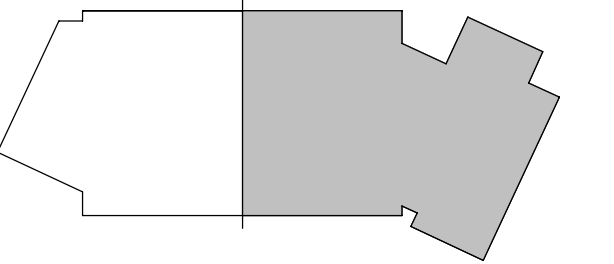
CLIENT REF. #:
PROJECT:

PROJECT:

Victoria Park Arena

20 Victoria Crescent, Brampton, ON L6T 1E4

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1	2021/08/30	ISSUED FOR 60%DD

PROJECT NO: 209-00238-00	DATE: 2024/11/08
ORIGINAL SCALE: 1 : 100	IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE. 
DESIGNED BY: KN	
DRAWN BY: JS	
CHECKED BY: KN	

DISCIPLINE

TITLE:

LEVEL 2 - EAST - PLUMBING

SHEET NUMBER:

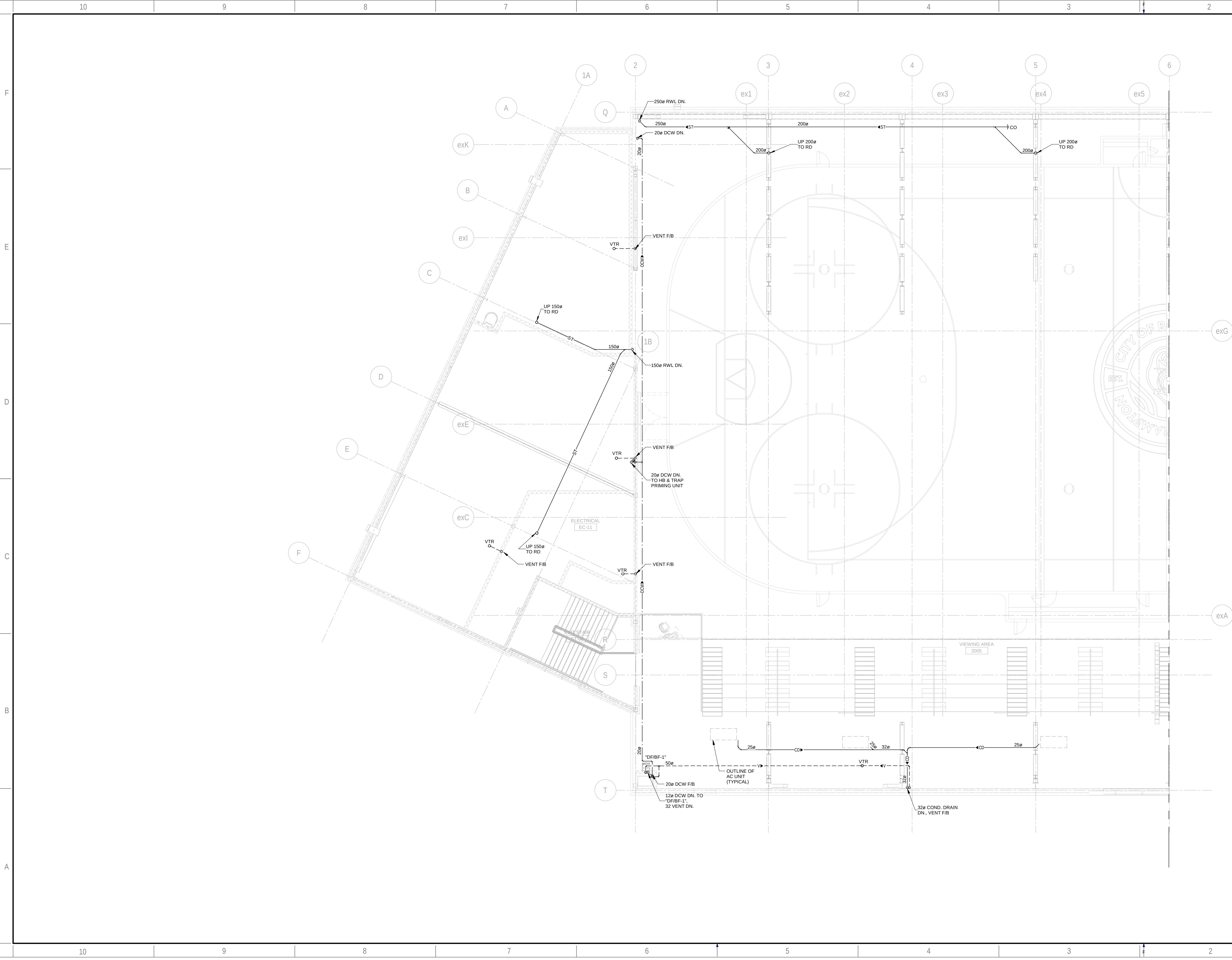
M-202E

SHEET N°:

ISSUE:
ISSUED FOR CONSTRUCTION

DATE OF: 2024/11/08

Arena - R20/M-V
04.11.09 12:43

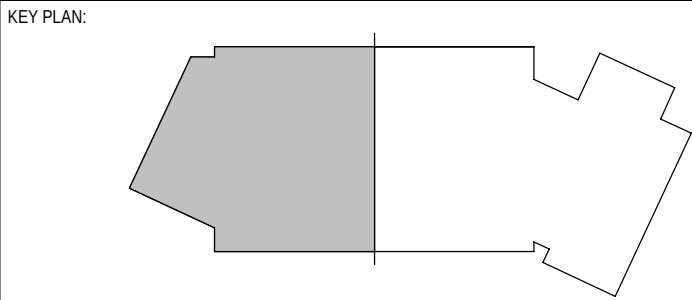


SEAL:



CLIENT REF. #:
PROJECT:

Victoria Park Arena
20 Victoria Crescent, Brampton, ON L6T 1E4

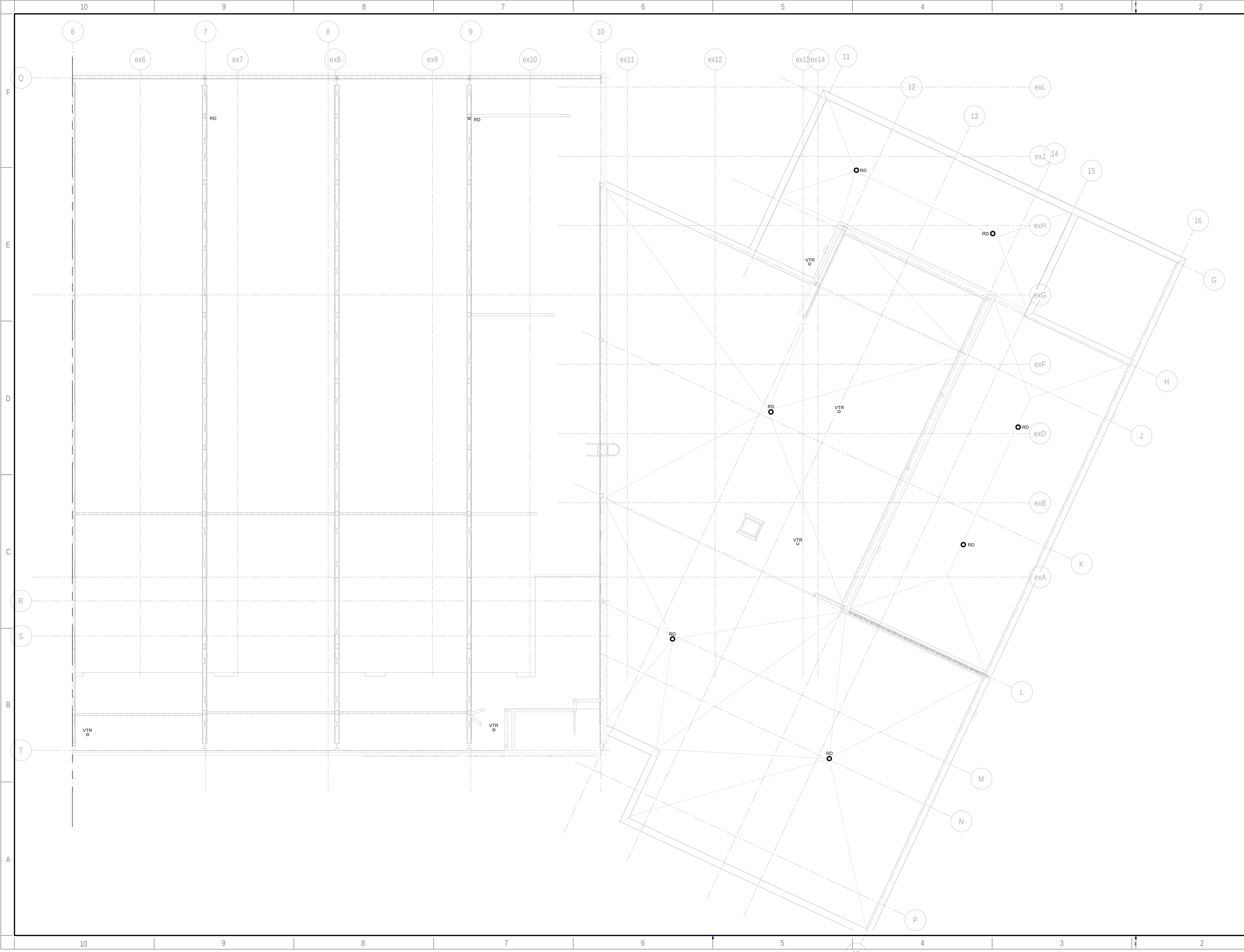


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PROJECT NO: 209-00238-00	DATE: 2024/11/08
ORIGINAL SCALE: 1: 100	IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.
DESIGNED BY: KN	1"
DRAWN BY: JS	
CHECKED BY: KN	

DISCIPLINE:	
TITLE: LEVEL 2 - WEST - PLUMBING	
SHEET NUMBER: M-202W	
SHEET #: ISSUED FOR CONSTRUCTION	REV #: 13
DATE OF: 2024/11/08	



ARCHITECTURE | 49

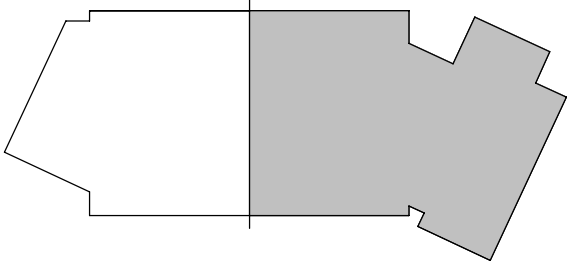
CONSULTANT - SUB CONSULTANT:


SEAL:

CUENT:


CLIENT REF. #:
PROJECT:

Victoria Park Arena
20 Victoria Crescent, Brampton, ON L6T 1E4

KEY PLAN:


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PROJECT NO:	DATE:
209-00238-00	2024/11/08

ORIGINAL SCALE:	IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.
1: 100	1"

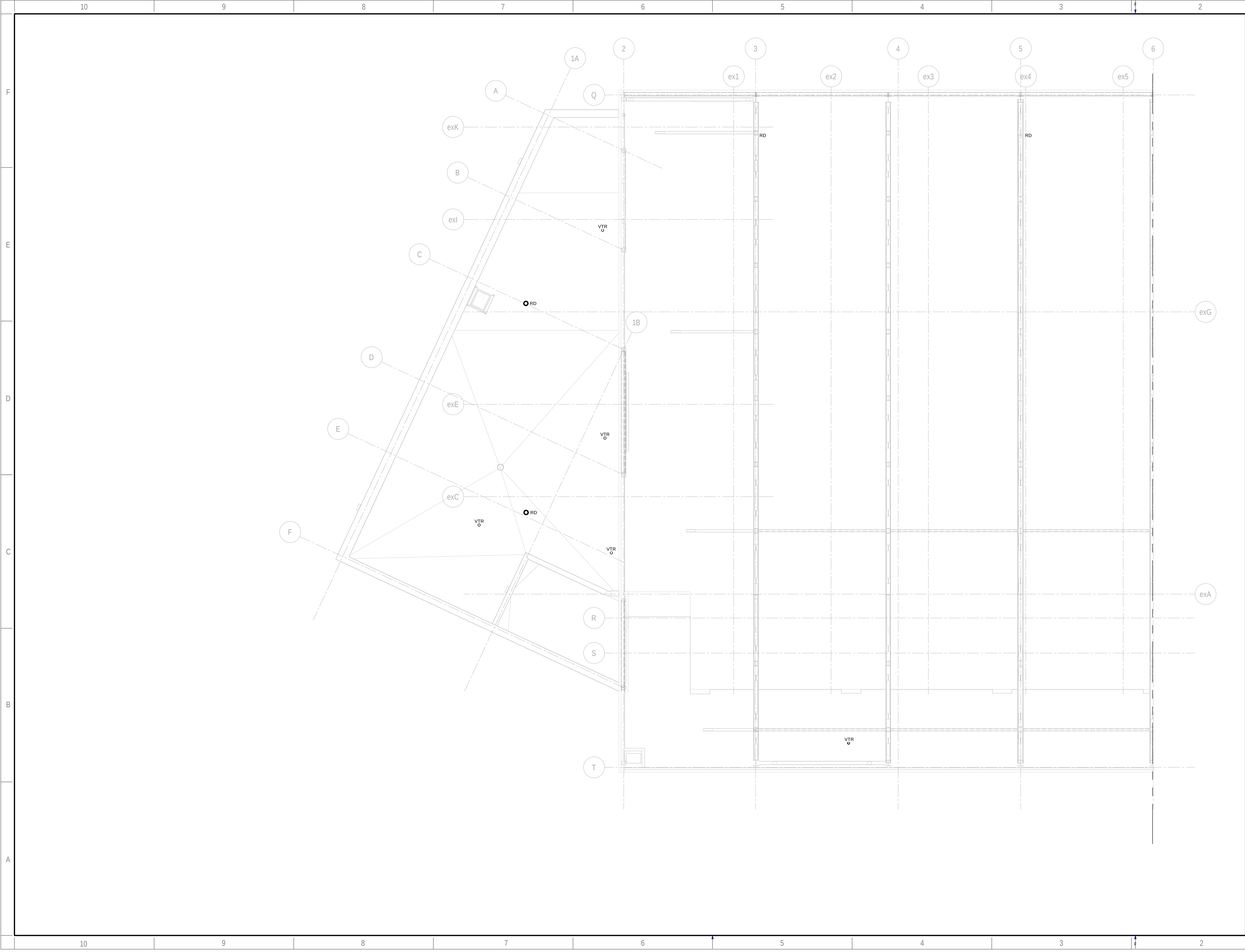
DESIGNED BY:	DRAWN BY:	CHECKED BY:
KN	JS	KN

DISCIPLINE:
ROOF LEVEL - EAST - PLUMBING

SHEET NUMBER:
M-203E

ISSUE:	REV #
ISSUED FOR CONSTRUCTION	13

DATE OF: 2024/11/08



ARCHITECTURE | 49

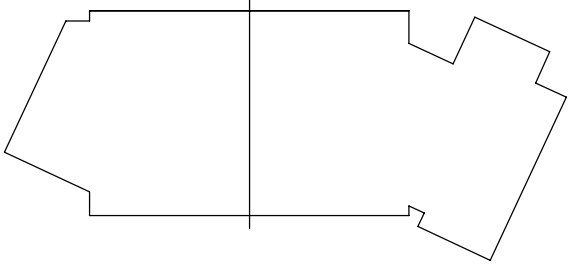
CONSULTANT - SUB CONSULTANT:


SEAL:

CIENT:


CLIENT REF. #:
PROJECT:

Victoria Park Arena
20 Victoria Crescent, Brampton, ON L6T 1E4

KEY PLAN:


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1	2021/09/27	ISSUED FOR PROGRESS REVIEW

PROJECT NO:	DATE:
209-00238-00	2024/11/08

ORIGINAL SCALE:	IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.
1: 100	1"

DESIGNED BY:	
KN	

DRAWN BY:	
JS	

CHECKED BY:	
KN	

DISCIPLINE:
TITLE:
ROOF LEVEL - WEST - PLUMBING

SHEET NUMBER:
M-203W

ISSUE:	REV #
ISSUED FOR CONSTRUCTION	12

DATE OF: 2024/11/08

CONSULTANT - SUB CONSULTANT:



SEAL:

CUSTOMER:



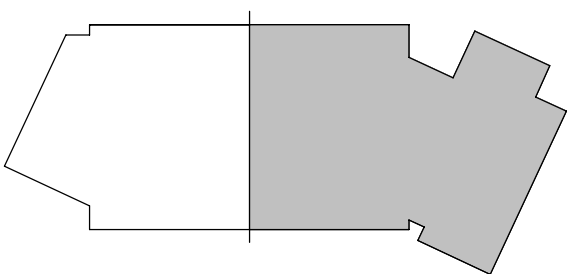
CUSTOMER REF. #:

PROJECT:

Victoria Park Arena

20 Victoria Crescent, Brampton, ON L6T 1E4

KEY PLAN:



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PROJECT NO.	DATE	DESCRIPTION
209-00238-00	2024/11/08	
ORIGINAL SCALE:		IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.
DESIGNED BY:		1"
DRIVEN BY:		
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DISCIPLINE:		

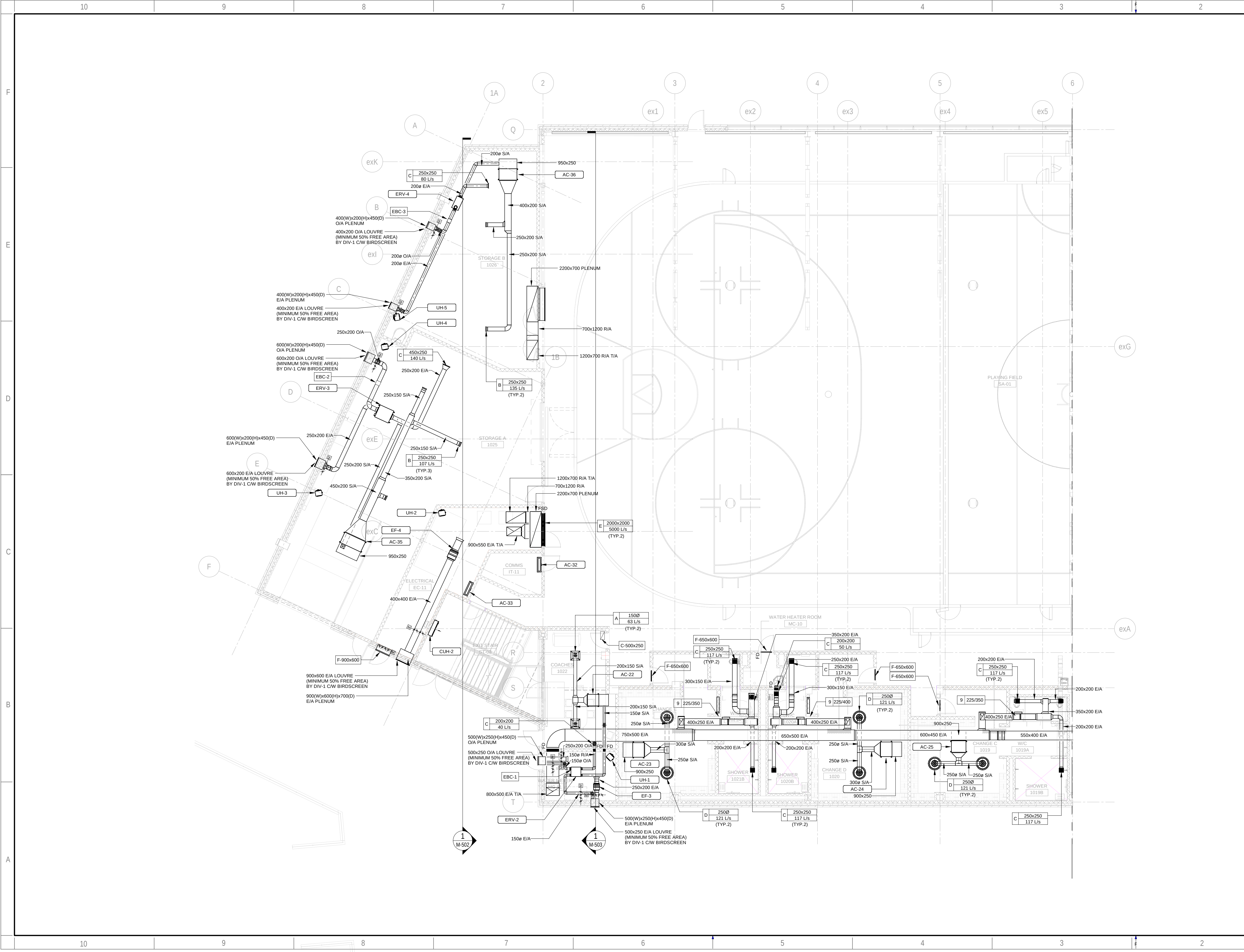
LEVEL 1 - EAST - HVAC DUCTWORK

SHEET NUMBER: M-301E

ISSUED FOR CONSTRUCTION

DATE OF: 2024/11/08

12

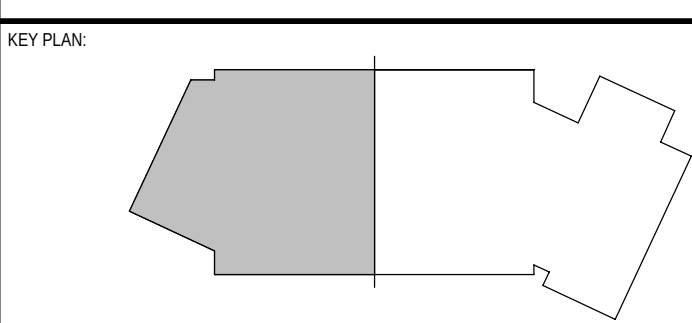


SEAL:



CUSTOMER REF. #:
PROJECT:

Victoria Park Arena
20 Victoria Crescent, Brampton, ON L6T 1E4



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PROJECT NO.	DATE
209-00238-00	2024/11/08
ORIGINAL SCALE:	IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.
1:100	1"
DESIGNED BY:	DRAWN BY:
MK	SG/VO
CHECKED BY:	DISCIPLINE:
MK	

TITLE:	
LEVEL 1 - WEST - HVAC DUCTWORK	
SHEET NUMBER:	
M-301W	
OF	
ISSUE:	REV
ISSUED FOR CONSTRUCTION	1
DATE OF: 2024/11/08	

CONSULTANT - SUB CONSULTANT:



SEAL:

CLIENT:



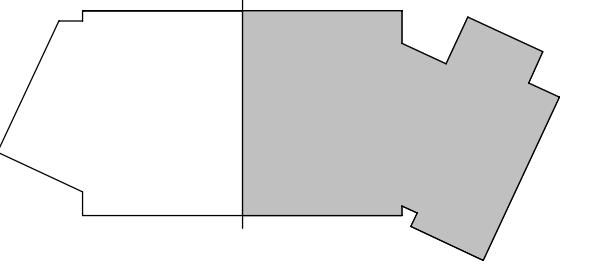
CLIENT REF. #:
PROJECT:

PROJECT:

Victoria Park Arena

20 Victoria Crescent, Brampton, ON L6T 1E4

KEY PLAN:



DISCLAIMER:

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3	2021/11/19	ISSUED FOR TENDER REVIEW
2	2021/09/27	ISSUED FOR PROGRESS REVIEW
1	2021/08/30	ISSUED FOR 60%DD

PROJECT NO: 209-00238-00	DATE: 2024/11/08
ORIGINAL SCALE: 1 : 100	IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.
DESIGNED BY: MK	1"
DRAWN BY: SG/VO	
CHECKED BY: MK	

TITLE:

LEVEL 2 - EAST - HVAC DUCTWORK

SHEET NUMBER:

M-302E

SHEET #:

ISSUE:
ISSUED FOR CONSTRUCTION

DATE OF: 2024/11/08

Arena - R20/M-V
04.11.09 12:49

CONSULTANT - SUB CONSULTANT:



SEAL:

CLIENT:



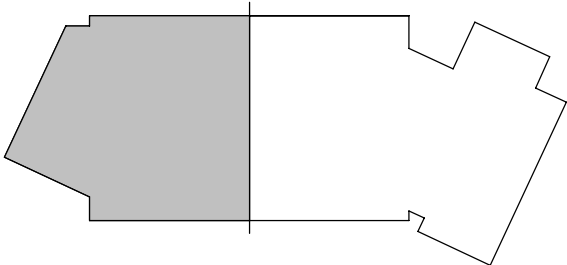
CLIENT REF. #:

PROJECT:

Victoria Park Arena

20 Victoria Crescent, Brampton, ON L6T 1E4

KEY PLAN:



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ISSUED FOR - REVISION:

REV	DATE	DESCRIPTION
13	2024/11/08	ISSUED FOR CONSTRUCTION
12	2024/05/29	ISSUED FOR TENDER
11	2023/10/27	ISSUED FOR TENDER
10	2023/09/22	ISSUED FOR TENDER
9	2022/08/15	ISSUED FOR BUILDING PERMIT
8	2022/08/05	ISSUED FOR TENDER - FINAL
7	2022/04/13	ISSUED FOR TENDER
6	2022/03/25	ISSUED FOR BUILDING PERMIT
5	2022/03/02	ISSUED FOR TENDER REVIEW
4	2021/11/26	REISSUED FOR 90% REVIEW
3	2021/11/19	ISSUED FOR TENDER REVIEW
2	2021/09/27	ISSUED FOR PROGRESS REVIEW
1	2021/09/30	ISSUED FOR 60%DD

PROJECT NO.	DATE
209-00238-00	2024/11/08
ORIGINAL SCALE:	DATE:
1: 100	2024/11/08
DESIGNED BY:	DATE:
MK	2024/11/08
DRAWN BY:	DATE:
SG/VO	2024/11/08
CHECKED BY:	DATE:
MK	2024/11/08
DISCIPLINE:	DATE:
	2024/11/08

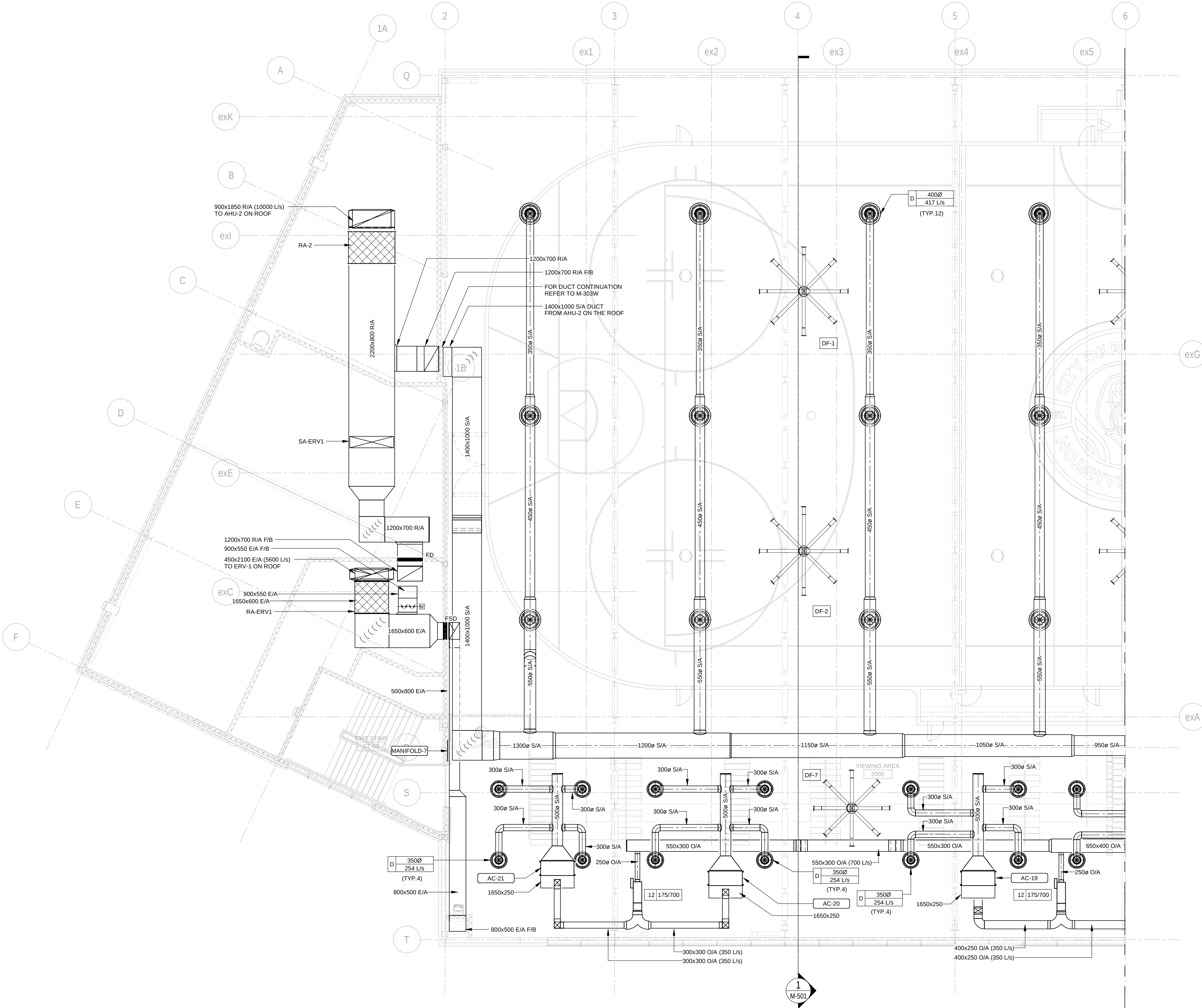
LEVEL 2 - WEST - HVAC DUCTWORK

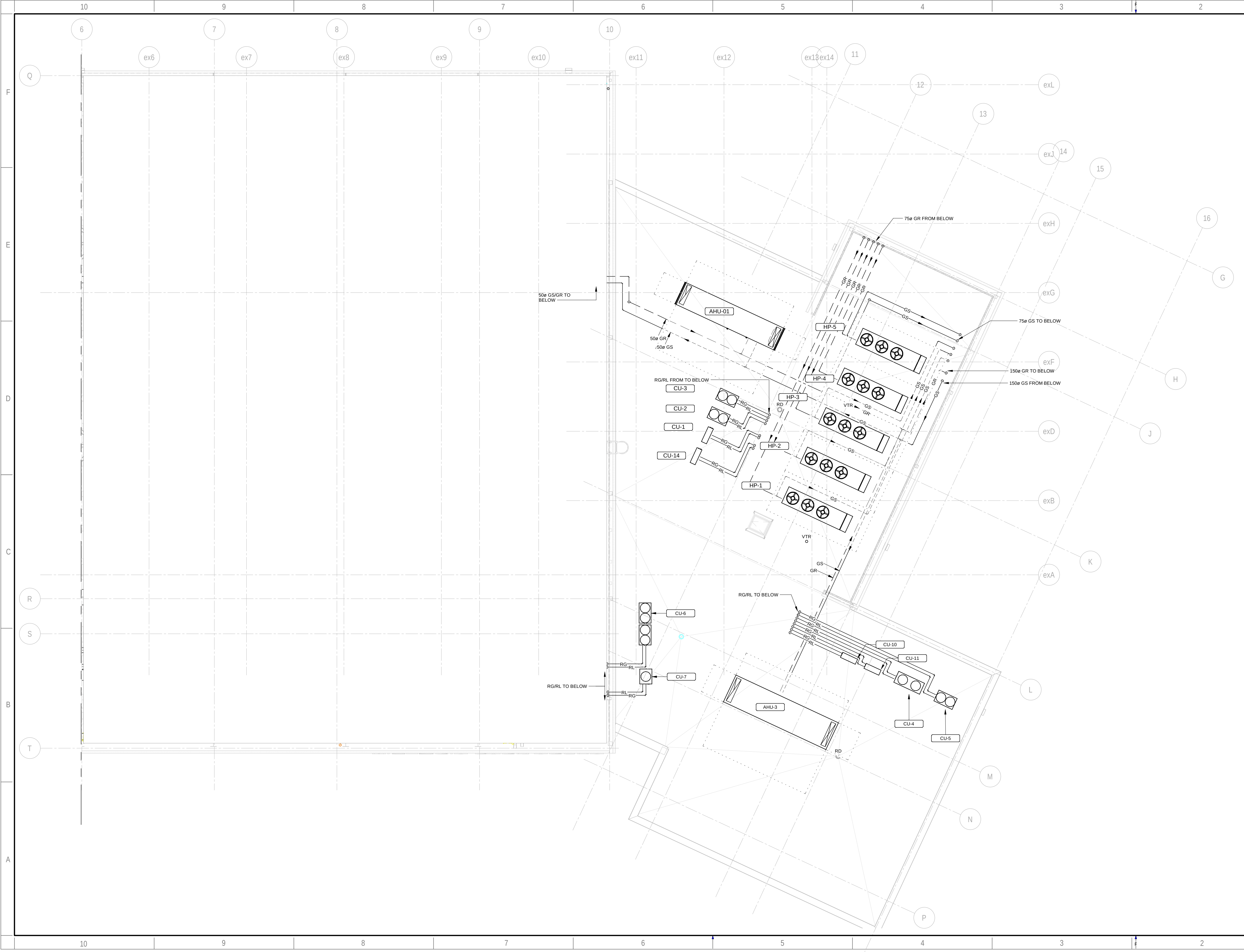
SHEET NUMBER: M-302W

ISSUED FOR CONSTRUCTION

DATE OF: 2024/11/08

13





ARCHITECTURE

49

CONSULTANT - SUB CONSULTANT:

SEAL:

CLIENT:

CLIENT REF. #:

PROJECT:

Victoria Park Arena

20 Victoria Crescent, Brampton, ON L6T 1E4

KEY PLAN:

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ISSUED FOR - REVISION:

REV	DATE	DESCRIPTION
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4	2021/11/26	REISSUED FOR 90% REVIEW
3	2021/11/19	ISSUED FOR TENDER REVIEW
2	2021/09/27	ISSUED FOR PROGRESS REVIEW
1	2021/08/30	ISSUED FOR 60%DD

PROJECT NO:

209-00238-00

DATE:

2024/11/08

ORIGINAL SCALE:

1: 100

DESIGNED BY:

MK

DRAWN BY:

SG/VO

CHECKED BY:

MK

DISCIPLINE:

TITLE:

ROOF LEVEL - EAST

SHEET NUMBER:

M-303E

ISSUE:

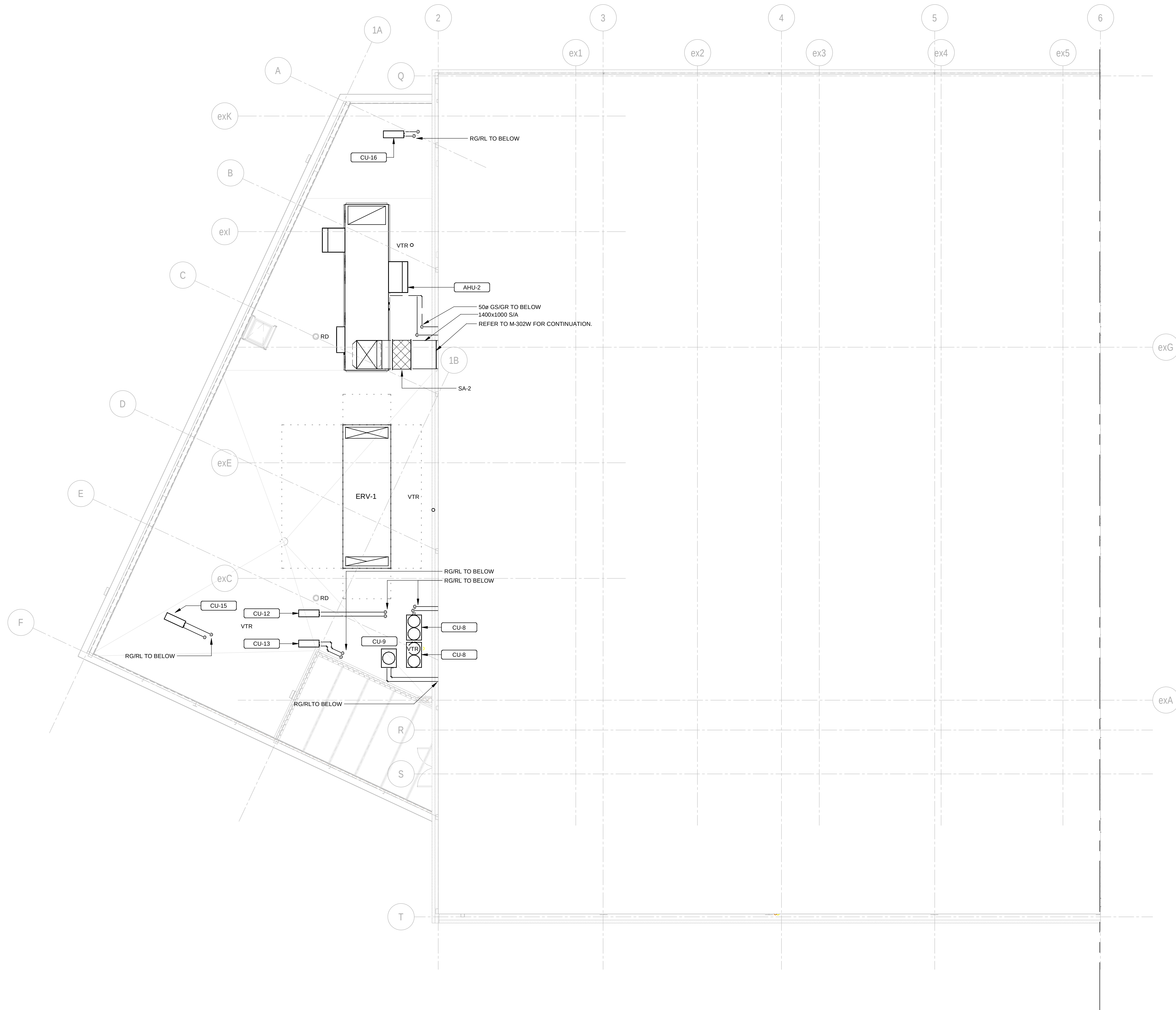
ISSUED FOR CONSTRUCTION

DATE OF:

2024/11/08

REV #

13



SEAL

CLIENT:

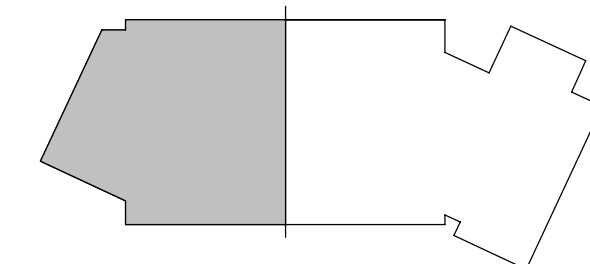


CLIENT REF. #1
PROJECT:

Victoria Park Arena

20 Victoria Crescent, Brampton, ON L6T 1E4

KEY PLAN:



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ISSUED FOR - REVISION		
13	2024/11/08	ISSUED FOR CONSTRUCTION
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1	2021/08/30	ISSUED FOR 60%SD

REV	DATE	DESCRIPTION
PROJECT NO.: 209-00238-00		DATE: 2024/11/08
ORIGINAL SCALE: 1" = 100'		IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.
DESIGNED BY: MK		1"
DRAWN BY: SGVO		
CHECKED BY: MK		

DISCIPLINE

TITLE	
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ROOF LEVEL - WEST

SHEET NUMBER:

M-303W

SHEET #

OF

ISSUE:
ISSUED FOR CONSTRUCTION

REV #
13

DATE OF: 2024/11/08

CONSULTANT - SUB CONSULTANT:



SEAL:

CLIENT:



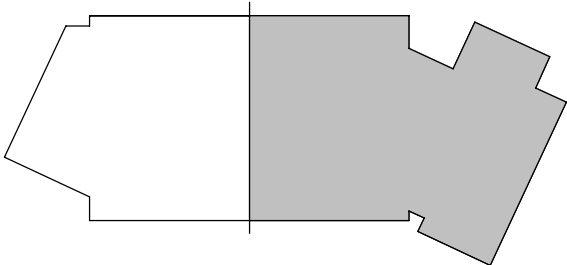
CLIENT REF. #:

PROJECT:

Victoria Park Arena

20 Victoria Crescent, Brampton, ON L6T 1E4

KEY PLAN:



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7	2022/04/13	ISSUED FOR TENDER
6	2022/03/25	ISSUED FOR BUILDING PERMIT
5	2022/03/02	ISSUED FOR TENDER REVIEW
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3	2021/11/19	ISSUED FOR TENDER REVIEW
2	2021/09/27	ISSUED FOR PROGRESS REVIEW
1	2021/08/30	ISSUED FOR 60% DD

PROJECT NO.	DATE
209-00238-00	2024/11/08
ORIGINAL SCALE:	DATE
1: 100	2024/11/08
DESIGNED BY:	DATE
MK	2024/11/08
DRAWN BY:	DATE
SGVO	2024/11/08
CHECKED BY:	DATE
MK	2024/11/08
DISCIPLINE:	DATE
	2024/11/08

LEVEL 1 - EAST - HVAC PIPING

SHEET NUMBER: M-401E

ISSUED FOR CONSTRUCTION

DATE OF: 2024/11/08

CONSULTANT - SUB CONSULTANT:



SEAL:

CLIENT:



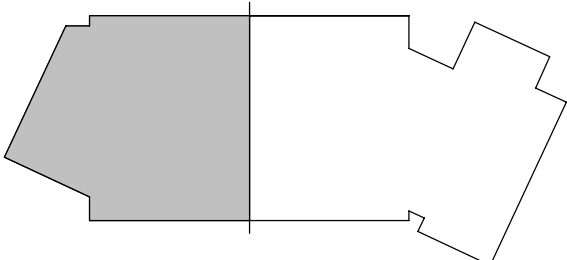
CLIENT REF. #:

PROJECT:

Victoria Park Arena

20 Victoria Crescent, Brampton, ON L6T 1E4

KEY PLAN:



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REV	DATE	DESCRIPTION
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3	2021/11/19	ISSUED FOR TENDER REVIEW
2	2021/09/27	ISSUED FOR PROGRESS REVIEW
1	2021/08/30	ISSUED FOR 60%DD

PROJECT NO.	DATE
209-00238-00	2024/11/08
ORIGINAL SCALE:	1" = 100'
DESIGNED BY:	MK
DRAWN BY:	SG/VO
CHECKED BY:	MK
DISCIPLINE:	

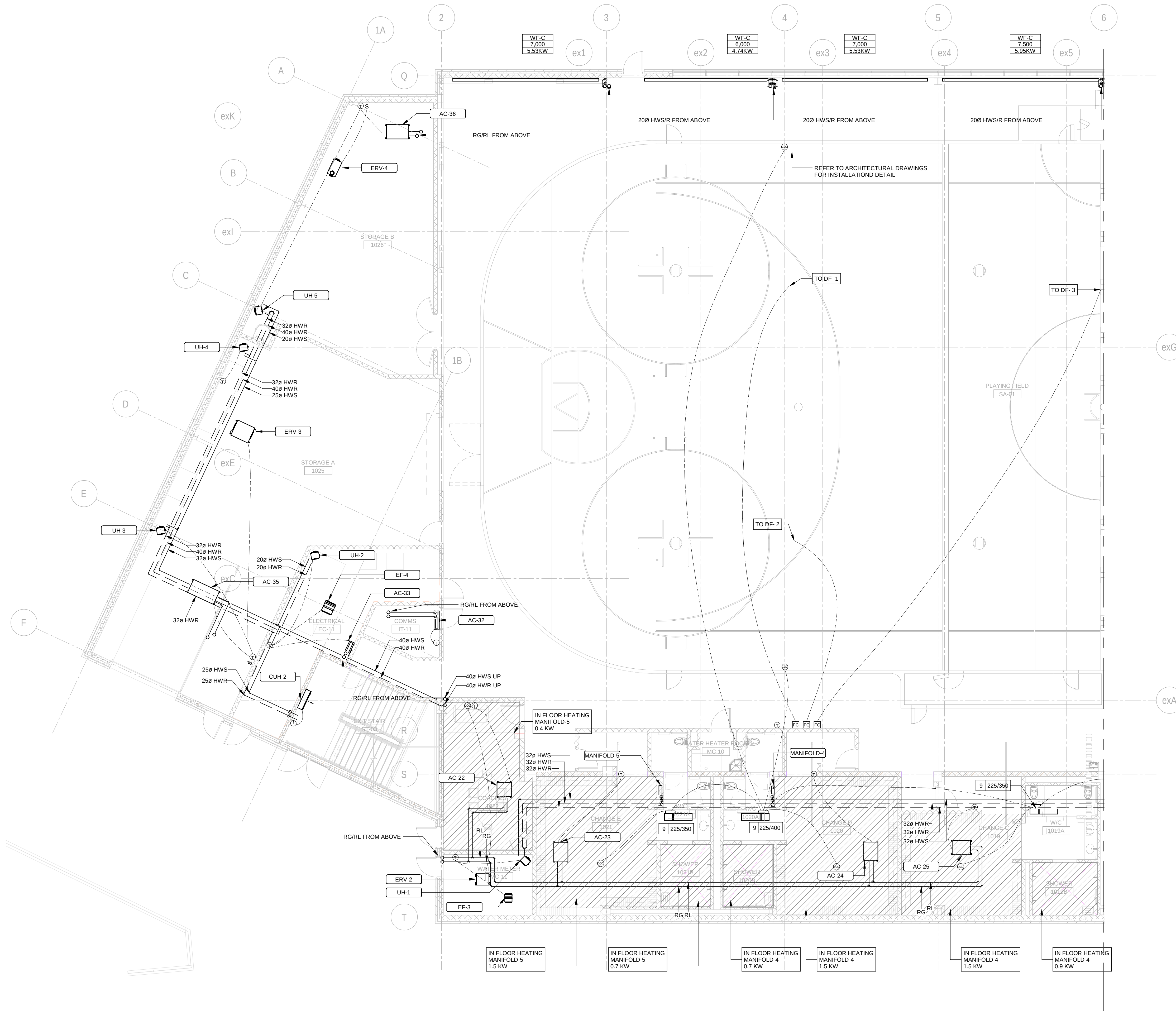
LEVEL 1 - WEST - HVAC PIPING

M-401W

ISSUED FOR CONSTRUCTION

DATE OF: 2024/11/08

13



CONSULTANT - SUB CONSULTANT:



SEAL:

CLIENT:



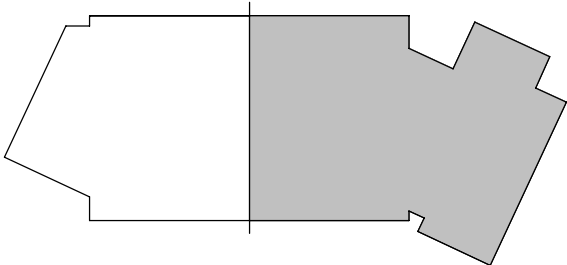
CLIENT REF. #:

PROJECT:

Victoria Park Arena

20 Victoria Crescent, Brampton, ON L6T 1E4

KEY PLAN:



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REV	DATE	DESCRIPTION
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1	2021/08/30	ISSUED FOR 60%DD

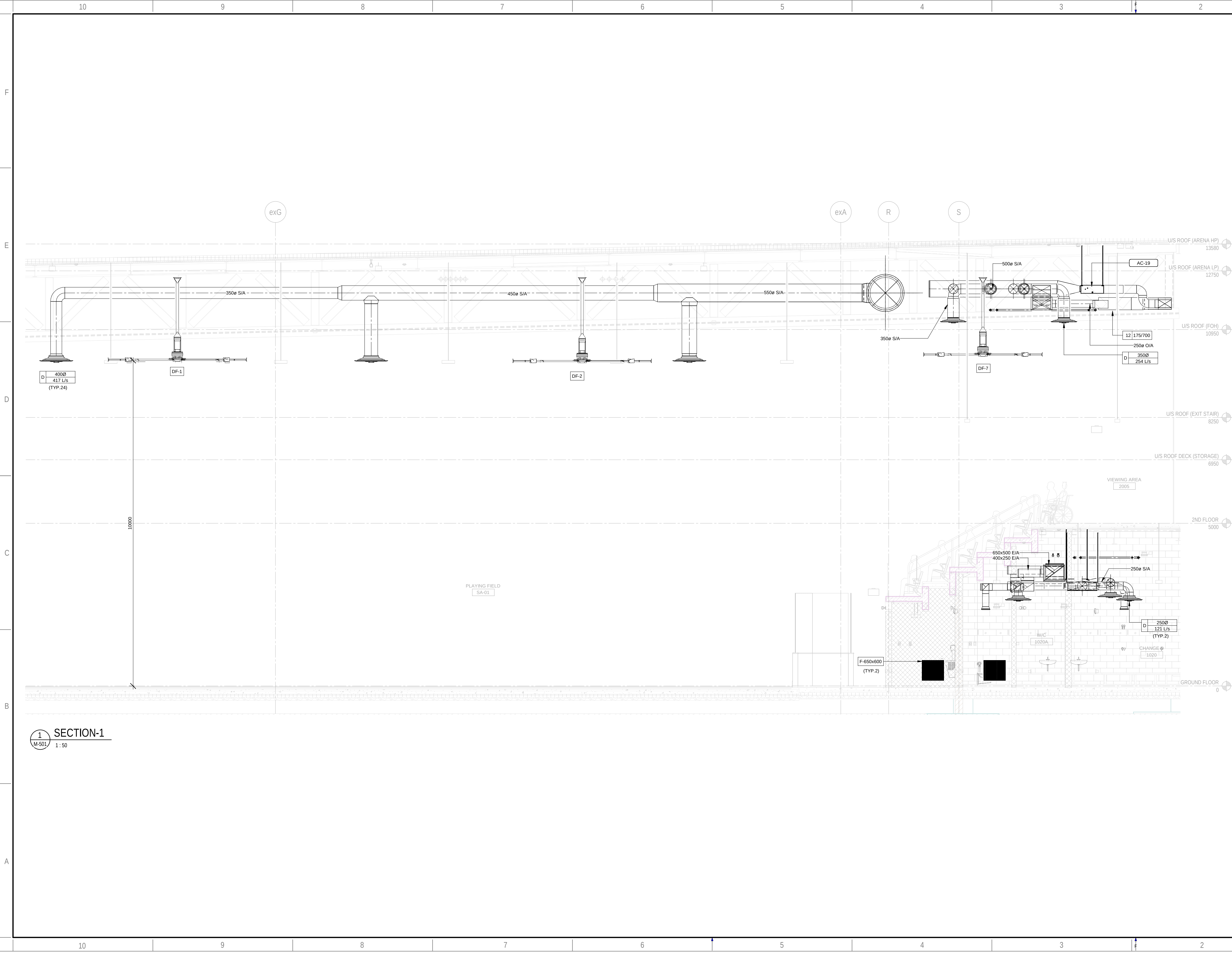
PROJECT NO:	DATE:
209-00238-00	2024/11/08
ORIGINAL SCALE:	DATE:
1: 100	2024/11/08
DESIGNED BY:	DATE:
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DRAWN BY:	DATE:
SG/VO	2024/11/08
CHECKED BY:	DATE:
MK	2024/11/08
DISCIPLINE:	DATE:
	2024/11/08

TITLE:
LEVEL 2 - EAST - HVAC PIPING

SHEET NUMBER:
M-402E

ISSUE:
ISSUED FOR CONSTRUCTION

DATE OF: 2024/11/08



1 SECTION-1
M-501 1:50

ARCHITECTURE | 49

CONSULTANT - SUB CONSULTANT:


SEAL:

CLIENT:


CLIENT REF. #:
PROJECT:

Victoria Park Arena
20 Victoria Crescent, Brampton, ON L6T 1E4

KEY PLAN:

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REV	DATE	DESCRIPTION
11	2024/11/08	ISSUED FOR CONSTRUCTION
10	2024/05/29	ISSUED FOR TENDER
9	2023/10/27	ISSUED FOR TENDER
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7	2022/08/15	ISSUED FOR BUILDING PERMIT
6	2022/08/05	ISSUED FOR TENDER - FINAL
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4	2022/03/25	ISSUED FOR BUILDING PERMIT
3	2022/03/02	ISSUED FOR TENDER REVIEW
2	2021/11/26	REISSUED FOR 90% REVIEW
1	2021/11/19	ISSUED FOR TENDER REVIEW

PROJECT NO:
209-00238-00
ORIGINAL SCALE:
1:50
DESIGNED BY:
MK
DRAWN BY:
SG/VO
CHECKED BY:
MK
DISCIPLINE:

TITLE:

SECTION DETAILS-1

SHEET NUMBER:

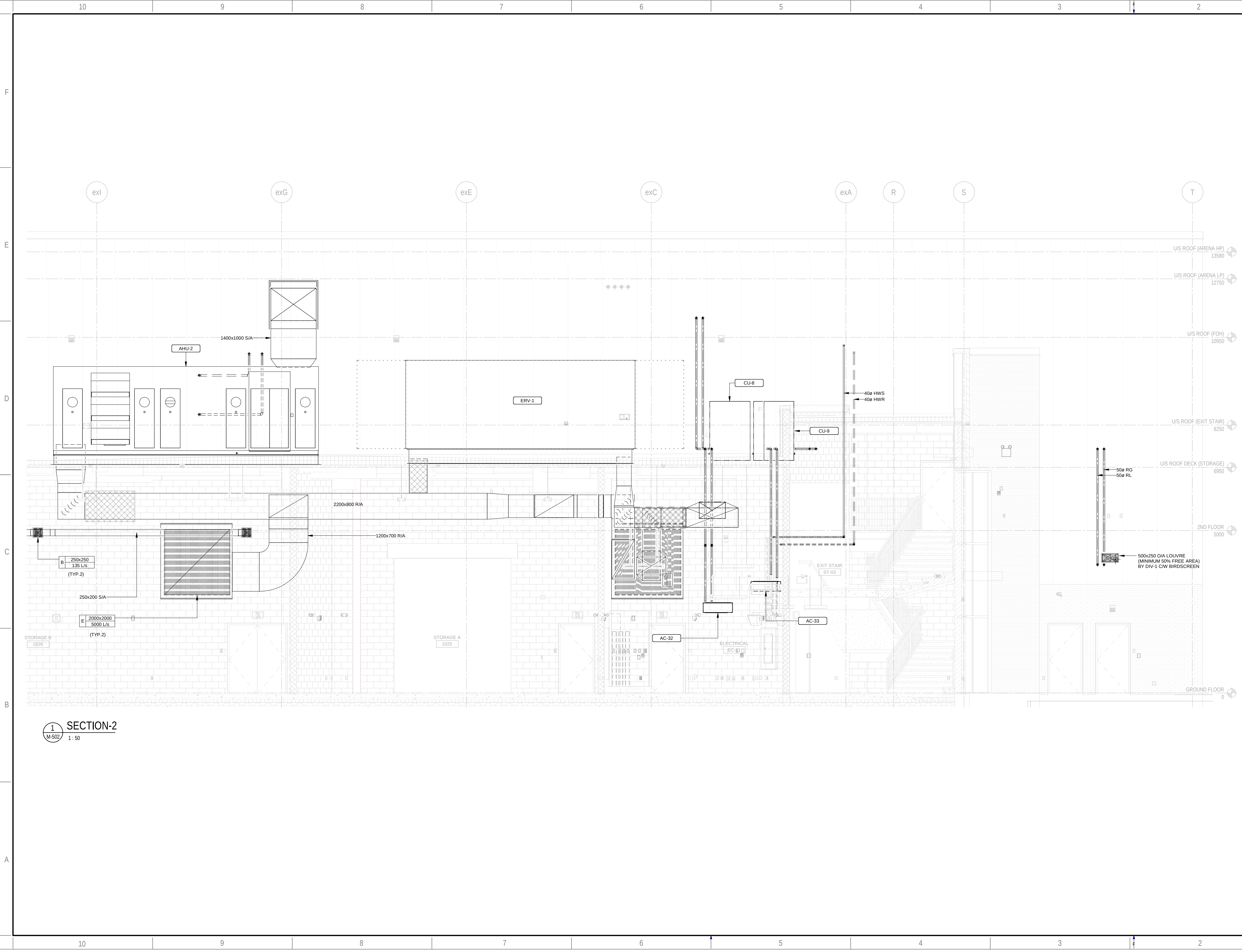
M-501
SHEET #:
OF
ISSUE:
ISSUED FOR CONSTRUCTION
DATE OF: 2024/11/08
DATE:
2024/11/08
IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.
1"

SECTION DETAILS-1

SHEET NUMBER:
M-501
SHEET #:
OF
ISSUE:
ISSUED FOR CONSTRUCTION
DATE OF: 2024/11/08
DATE:
2024/11/08
IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.
1"

SECTION DETAILS-1

SHEET NUMBER:
M-501
SHEET #:
OF
ISSUE:
ISSUED FOR CONSTRUCTION
DATE OF: 2024/11/08
DATE:
2024/11/08
IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.
1"



1 SECTION-2
M-502 1:50

ARCHITECTURE | 49

CONSULTANT - SUB CONSULTANT:


SEAL:

CIENT:


CLIENT REF. #:
PROJECT:

Victoria Park Arena
20 Victoria Crescent, Brampton, ON L6T 1E4

KEY PLAN:

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REV	DATE	DESCRIPTION
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9	2023/10/27	ISSUED FOR TENDER
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7	2022/08/15	ISSUED FOR BUILDING PERMIT
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4	2022/03/25	ISSUED FOR BUILDING PERMIT
3	2022/03/02	ISSUED FOR TENDER REVIEW
2	2021/11/26	REISSUED FOR 90% REVIEW
1	2021/11/19	ISSUED FOR TENDER REVIEW

PROJECT NO:	DATE:
209-00238-00	2024/11/08

ORIGINAL SCALE:	IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.
1:50	1"

DESIGNED BY:	DRAWN BY:	CHECKED BY:
MK	SG/VO	MK

DISCIPLINE:

TITLE:

SECTION DETAILS-2

SHEET NUMBER:

M-502

ISSUE:
ISSUED FOR CONSTRUCTION

DATE OF: 2024/11/08

REV #:
11



4:

ENT:



ENT REF. #:

OBJECT:

Victoria Park Arena

20 Victoria Crescent, Brampton, ON L6T 1E4

PLAN:

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RIGHT:

RECEIVED FOR - REVISION:

0	2024/11/08	ISSUED FOR CONSTRUCTION
9	2024/05/29	ISSUED FOR TENDER
8	2023/10/27	ISSUED FOR TENDER
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6	2022/08/15	ISSUED FOR BUILDING PERMIT
5	2022/08/05	ISSUED FOR TENDER - FINAL
4	2022/04/13	ISSUED FOR TENDER
3	2022/03/25	ISSUED FOR BUILDING PERMIT
2	2022/03/02	ISSUED FOR TENDER REVIEW
1	2021/11/26	REISSUED FOR 90% REVIEW
CV	(DATE)	(DESCRIPTION)

PROJECT NO:	DATE:
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9-00238-00	2024/11/08
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ORIGINAL SCALE:	IF THIS BAR IS NOT
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1" LONG, ADJUST YOUR PLOTTING SCALE.

SIGNED BY: [REDACTED]

	1

DRAWN BY:		
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NO	

CHECKED BY: 	
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[illegible]

DIPLINE:

Table 1

SECTION DETAILS-3

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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M-503

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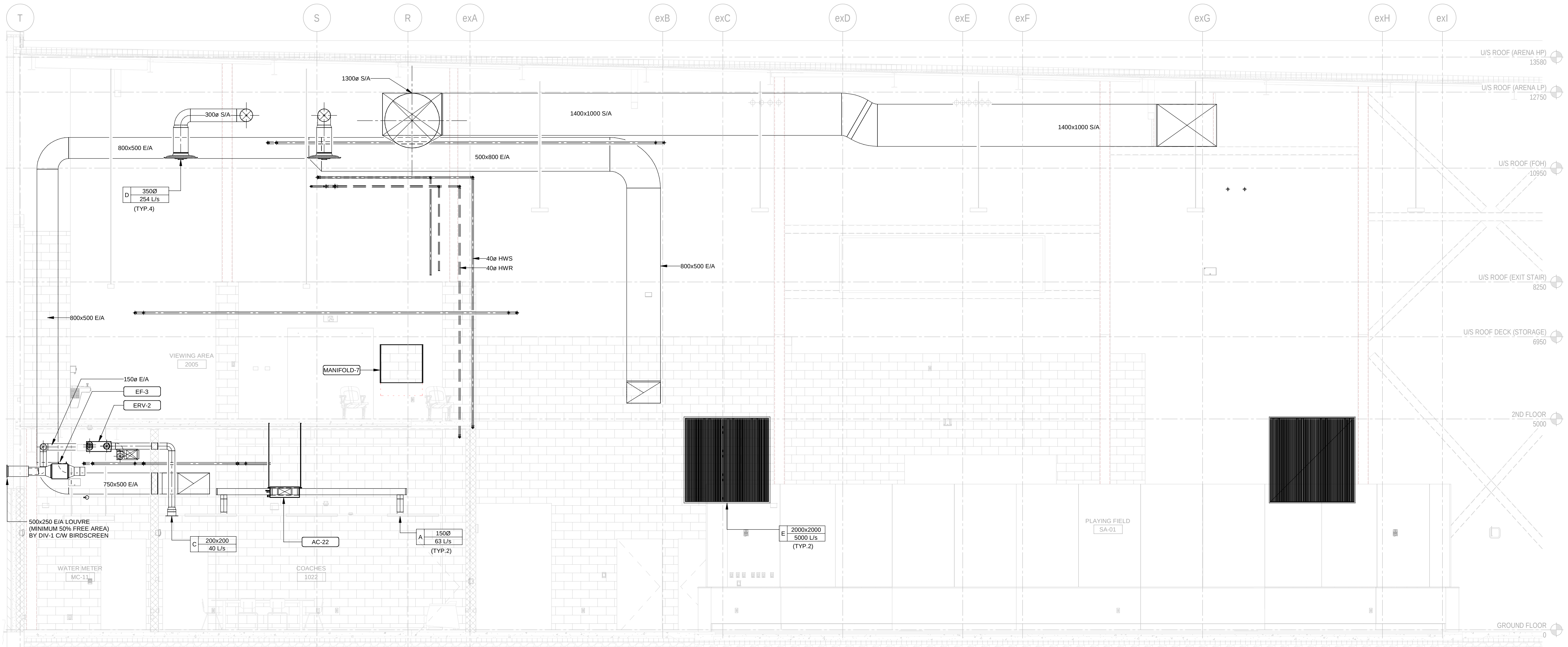
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FILED: 2024/11/08

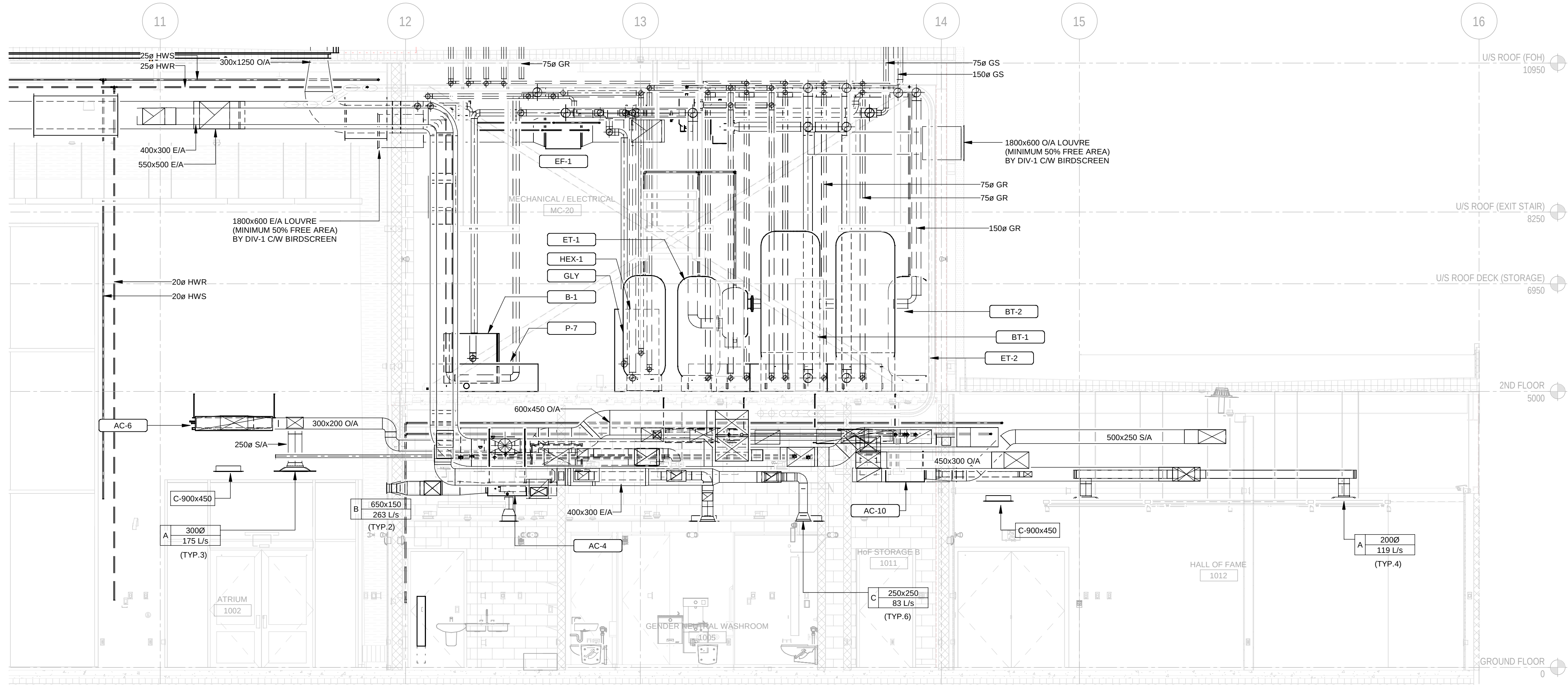
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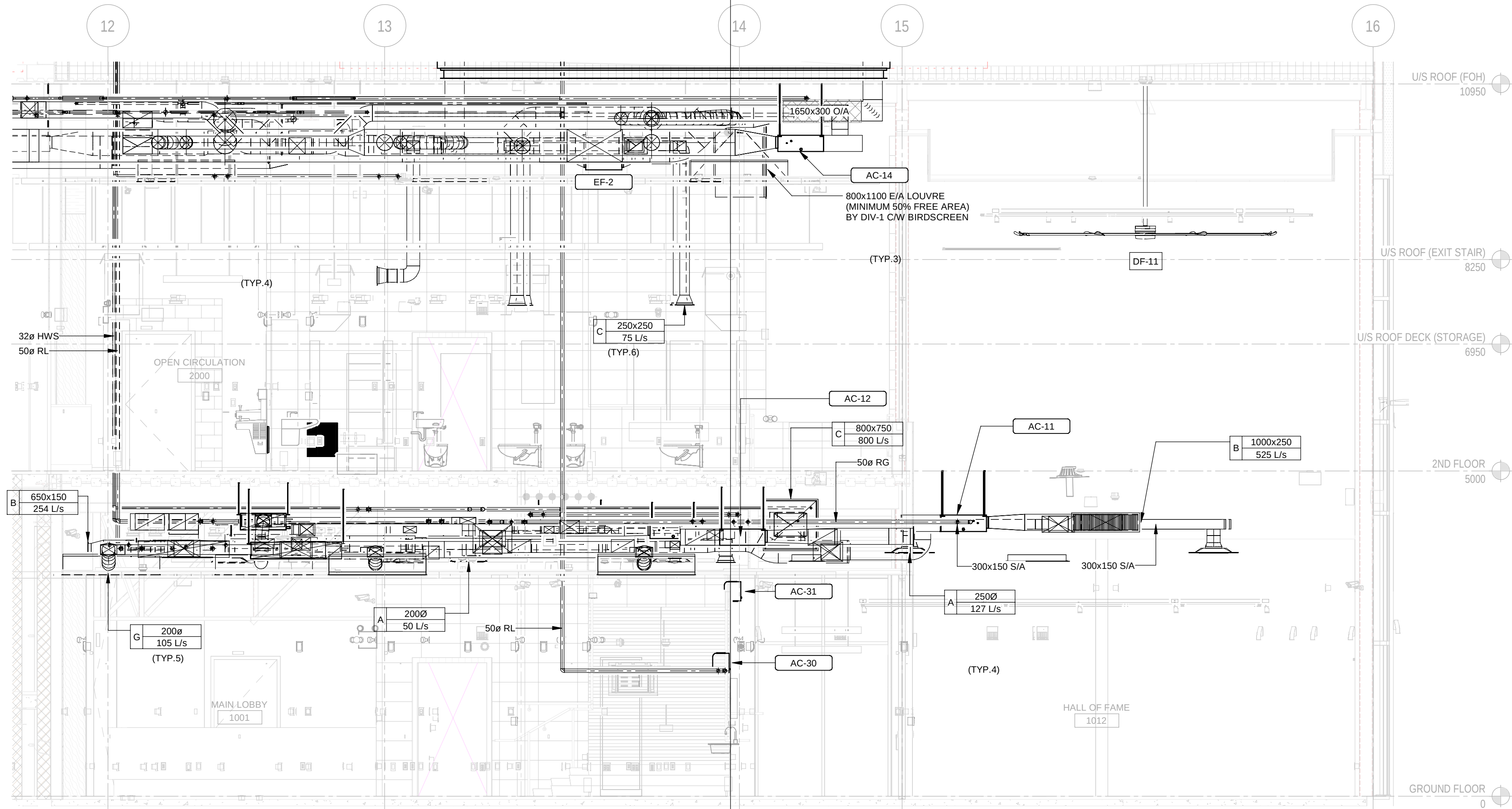
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1 SECTION-1
M-503 1:50



1 SECTION-1
M-504 1:50



2 SECTION-2
M-504 1:50

CONSULTANT - SUB CONSULTANT:



SEAL:

CLIENT:



CLIENT REF. #:

PROJECT:

Victoria Park Arena

20 Victoria Crescent, Brampton, ON L6T 1E4

KEY PLAN:

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8	2023/09/22	ISSUED FOR TENDER
7	2022/08/15	ISSUED FOR BUILDING PERMIT
6	2022/08/05	ISSUED FOR TENDER - FINAL
5	2022/04/13	ISSUED FOR TENDER
4	2022/03/25	ISSUED FOR BUILDING PERMIT
3	2022/03/02	ISSUED FOR TENDER REVIEW
2	2021/11/26	REISSUED FOR 90% REVIEW
1	2021/11/19	ISSUED FOR TENDER REVIEW

PROJECT NO:	209-00238-00	DATE:	2024/11/08
ORIGINAL SCALE:	1:50	IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.	1"
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DRAWN BY:	SG/VO		
CHECKED BY:	MK		

DISCIPLINE:

TITLE:

SECTION DETAILS-4

SHEET NUMBER:

M-504

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OF

ISSUED FOR CONSTRUCTION

REV #

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DATE OF: 2024/11/08

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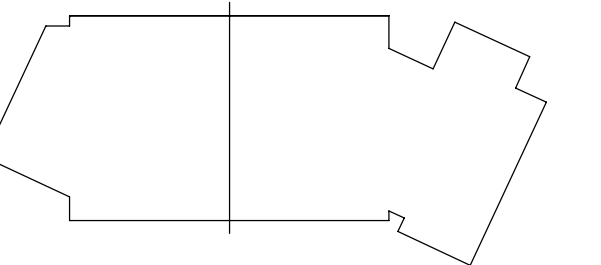
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6	2023/09/22	ISSUED FOR TENDER
5	2022/08/15	ISSUED FOR BUILDING PERMIT
4	2022/08/05	ISSUED FOR TENDER - FINAL
3	2022/04/13	ISSUED FOR TENDER
2	2022/03/25	ISSUED FOR BUILDING PERMIT
1	2022/03/02	ISSUED FOR TENDER REVIEW

REV	DATE	DESCRIPTION
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PROJECT NO.	DATE
209-00238-00	2024/11/08

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Table 1

SECTION DETAILS-5

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M-505

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DATE OF: 2024/11/08	

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SECTION-1

1 : 100

SECTION-2

1 : 100

CONSULTANT - SUB CONSULTANT:



SEAL:

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CLIENT REF. #:

PROJECT:

Victoria Park Arena

20 Victoria Crescent, Brampton, ON L6T 1E4

KEY PLAN:

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8	2023/09/22	ISSUED FOR TENDER
7	2022/08/15	ISSUED FOR BUILDING PERMIT
6	2022/08/05	ISSUED FOR TENDER - FINAL
5	2022/04/13	ISSUED FOR TENDER
4	2022/03/25	ISSUED FOR BUILDING PERMIT
3	2022/03/02	ISSUED FOR TENDER REVIEW
2	2021/11/26	REISSUED FOR 90% REVIEW
1	2021/11/19	ISSUED FOR TENDER REVIEW

PROJECT NO:	209-00238-00	DATE:	2024/11/08
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TITLE:
HVAC DUCTWORK AND PIPING - MECHANICAL ROOM ENLARGED PLAN

SHEET NUMBER:

M-506

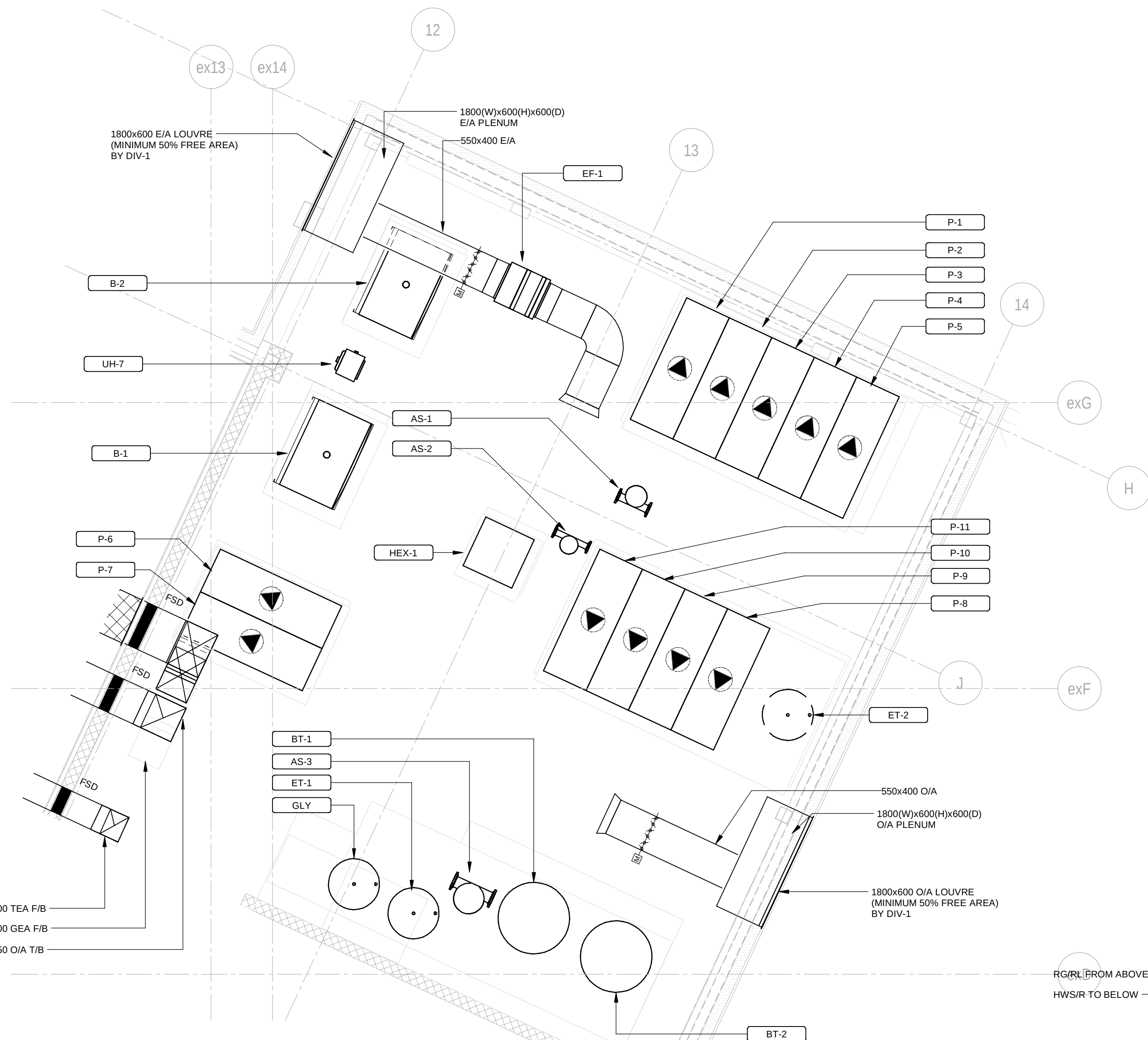
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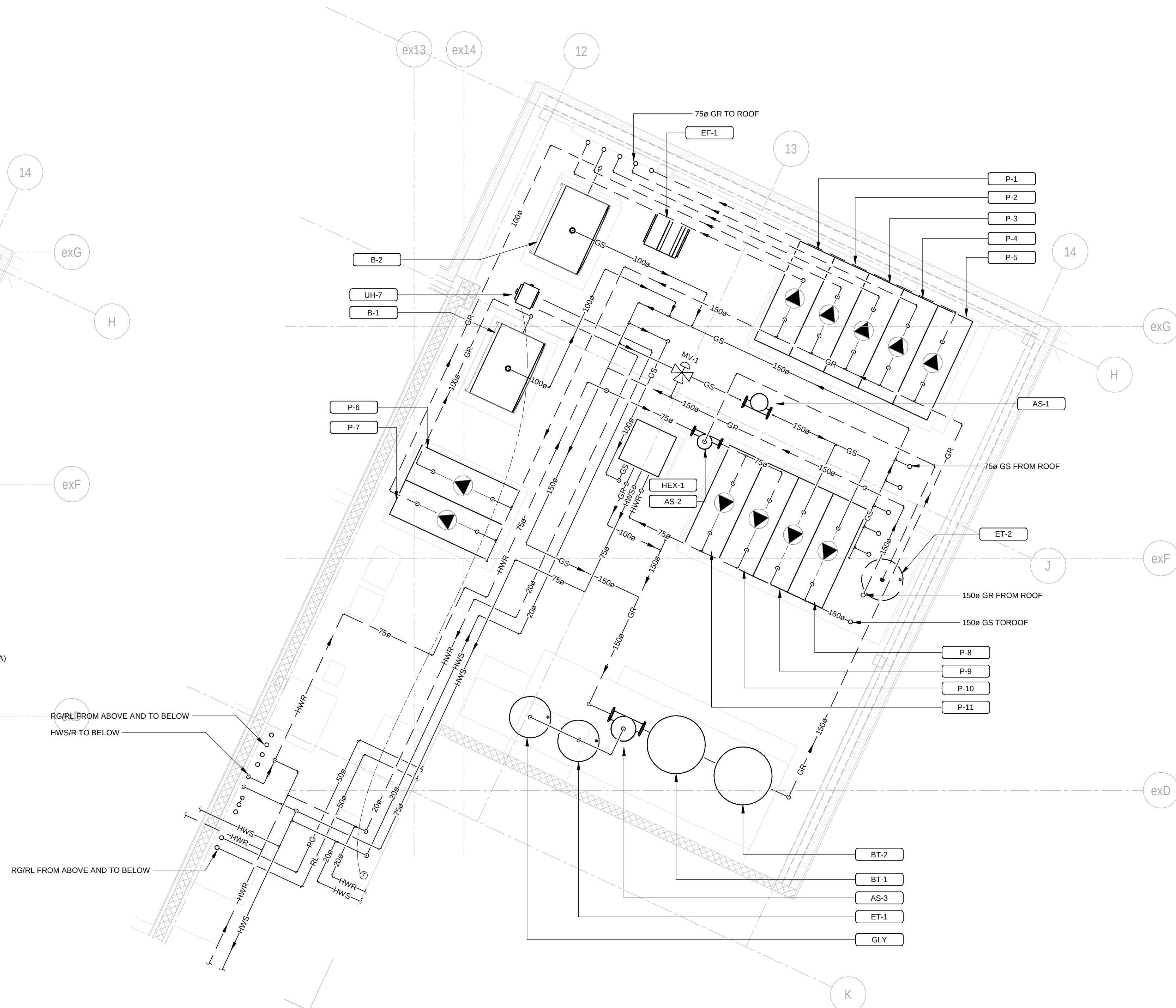
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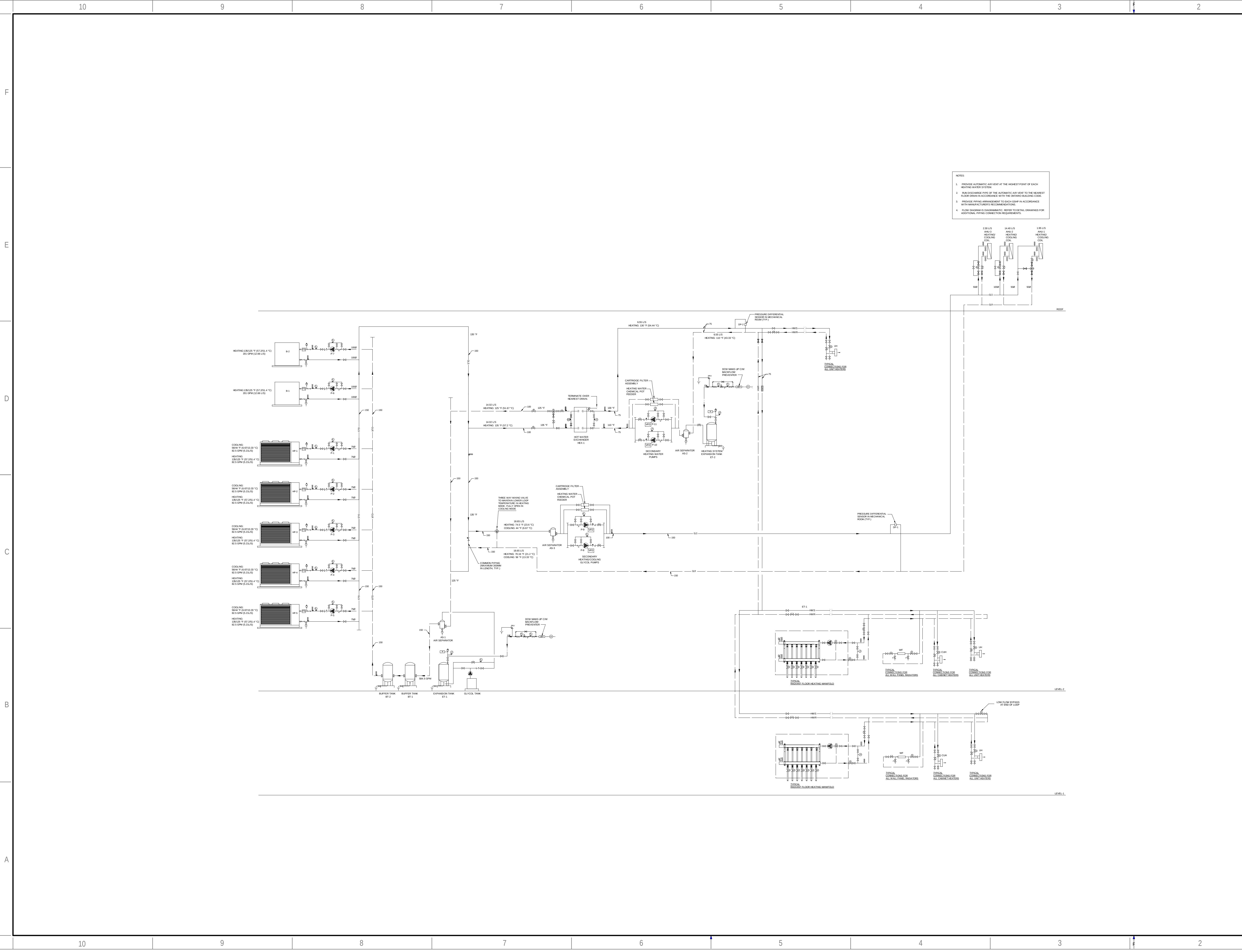
1 MECHANICAL ROOM - HVAC DUCT WORK - ENLARGED PLAN

M-506 1:50



2 MECHANICAL ROOM - HVAC PIPING - ENLARGED PLAN

M-506 1:50



CONSULTANT - SUB CONSULTANT:



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PROJECT:

Victoria Park Arena

20 Victoria Crescent, Brampton, ON L6T 1E4

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REV	DATE	DESCRIPTION
12	2024/11/08	ISSUED FOR CONSTRUCTION
11	2024/05/29	ISSUED FOR TENDER
10	2023/10/27	ISSUED FOR TENDER
9	2023/09/22	ISSUED FOR TENDER
8	2022/08/05	ISSUED FOR TENDER - FINAL
7	2022/04/13	ISSUED FOR TENDER
6	2022/03/25	ISSUED FOR BUILDING PERMIT
5	2022/03/02	ISSUED FOR TENDER REVIEW
4	2021/11/26	REISSUED FOR 90% REVIEW
3	2021/11/19	ISSUED FOR TENDER REVIEW
2	2021/09/27	ISSUED FOR PROGRESS REVIEW
1	2021/08/30	ISSUED FOR 60%DD

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TITLE:

HEATING AND COOLING FLOW DIAGRAM

SHEET NUMBER:

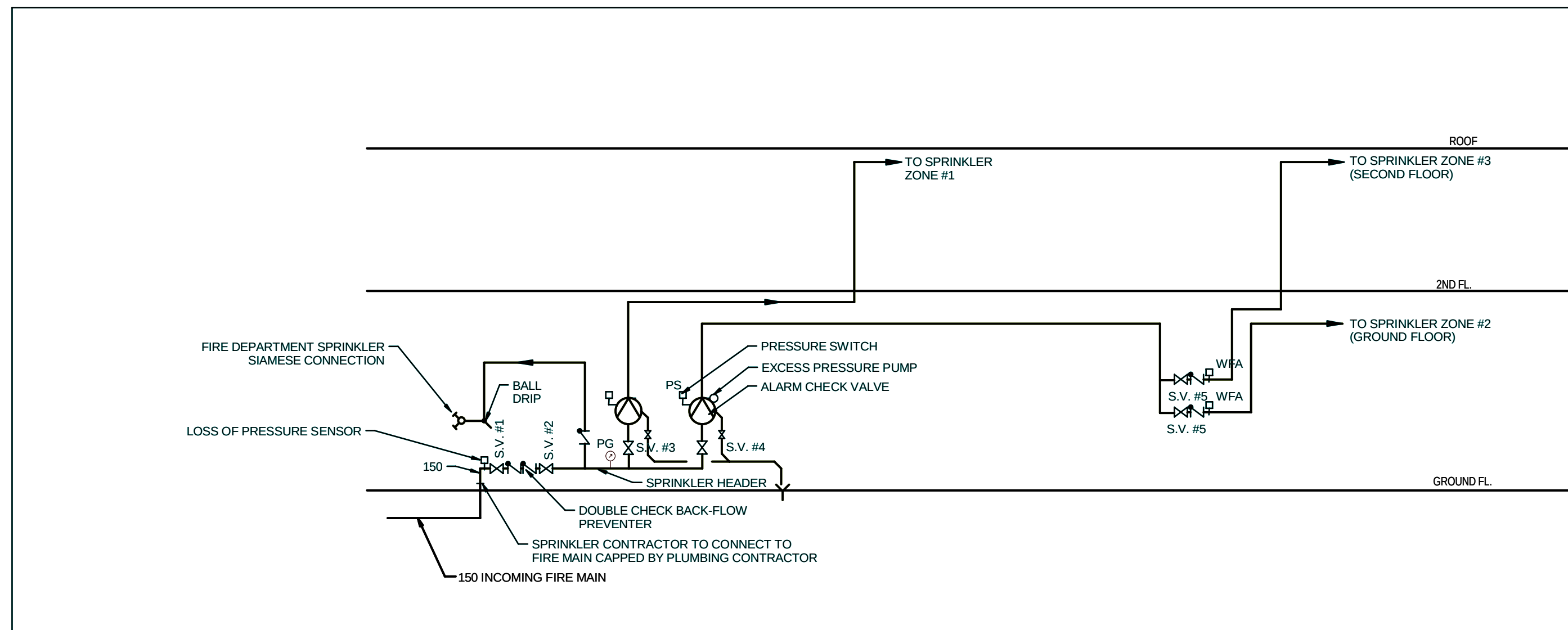
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DATE OF: 2024/11/08

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SPRINKLER FLOW DIAGRAM
N.T.S.

FIRE PROTECTION SYSTEMS GENERAL NOTES:

3. ALL FIRE PROTECTION (AUTO SPRINKLER) SYSTEMS TO BE HYDRAULICALLY CALCULATED, DESIGNED AND PROFESSIONAL ENGINEER SEALED BY FIRE PROTECTION CONTRACTOR (ENGAGED BY THE SUCCESSFUL MECHANICAL CONTRACTOR) IN ACCORDANCE WITH NFPA 13, ONTARIO BUILDING AND ONTARIO FIRE CODE AND AS PER REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. REFER TO SPECIFICATION SECTION 21 13 00 AND ALL RELATED SECTIONS. INCLUDE 10% HYDRAULIC SAFETY FACTOR.
2. FIRE PROTECTION SYSTEMS TO BE IN ACCORDANCE WITH THE FOLLOWING CODES:
 - N.F.P.A. 10 - LATEST EDITION - STANDARD FOR PORTABLE FIRE EXTINGUISHERS
 - N.F.P.A. 13 - LATEST EDITION - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
 - ONTARIO BUILDING CODE AND AUTHORITY HAVING JURISDICTION, LATEST EDITION
3. ALL DATA BASED ON UNOBSTRUCTED, NON-COMBUSTIBLE CONSTRUCTION.
4. ALL DATA BASED ON HYDRAULICALLY DESIGNED SPRINKLER SYSTEMS.
5. ALL SPRINKLERS IN LIGHT HAZARD OCCUPANCIES SHALL BE QUICK RESPONSE, STANDARD RESPONSE FOR ALL OTHER AREAS.
6. INSPECTORS TEST/DRAIN ASSEMBLY TO BE PROVIDED FOR EACH SPRINKLER ZONE SUPERVISED VALVE/FLOW SWITCH ASSEMBLY, DRAINED TO NEAREST FUNNEL FLOOR DRAIN OR EXTERIOR.
7. FIRE PROTECTION ZONE MAIN PIPING DISTRIBUTION SYSTEMS ARE SHOWN FOR ZONING COORDINATION ONLY. COORDINATE ACTUAL PIPING INSTALLATION WITH ALL TRADES AND CONSTRUCTION ASSEMBLIES FOR INTERFERENCE AND OBSTRUCTIONS.
8. SPRINKLER HEADS, WHERE POSSIBLE, TO BE LOCATED IN THE CENTER OF THE CEILING TILES. AS A MINIMUM, SPRINKLER HEADS MUST BE CENTERED ON THE SHORTEST DIMENSION (WIDTH) OF THE CEILING TILE.
9. REFER TO ARCHITECTURAL, INTERIOR DESIGN, MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS FOR ALL WALL AND STRUCTURE LOCATIONS AND REFLECTED CEILING PLANS FOR TYPES OF CEILINGS, LOCATIONS OF BULKHEADS, STRUCTURAL ELEMENTS, DUCTS, PIPES, LIGHTS, CEILING FIXTURES AND SPECIAL FEATURE DETAILS.
10. COORDINATE AND SUPPLY ALL ACCESS DOORS FOR VALVES AND EQUIPMENT ACCESS.
11. ALL VALVES NOTED AS 'SV' ARE TO BE SUPERVISED BY THE FIRE ALARM SYSTEM.
12. ALL PRESSURE SWITCHES NOTED AS 'PS(SV)' ARE TO BE SUPERVISED (LOW PRESSURE) BY THE FIRE ALARM SYSTEM.
13. ALL FLOW SWITCHES (WFA) ARE TO BE CONNECTED TO THE FIRE ALARM SYSTEM.
14. COORDINATE ALL ZONING WITH ELECTRICAL FIRE ALARM SYSTEMS.
15. PROVIDE SPRINKLER PROTECTION BELOW ALL OBSTRUCTIONS OVER 4FT. WIDE INCLUDING DUCTS, MECHANICAL PLUMBINGS, OVERHEAD DOORS, ETC.
16. PROVIDE PORTABLE FIRE EXTINGUISHERS THROUGHOUT THE BUILDING AS REQUIRED BY NFPA 10 AND ONTARIO FIRE CODE.
17. ALL FIRE PROTECTION EQUIPMENT SIZING PROVIDED ON DRAWINGS IS FOR INFORMATION AND COORDINATION PURPOSES ONLY. FINAL EQUIPMENT SIZING AND REQUIREMENTS TO BE DETERMINED AND DETERMINED BY FIRE PROTECTION CONTRACTOR'S ENGINEER'S HYDRAULIC CALCULATIONS.

SPRINKLER HEAD USAGE SCHEDULE

HEAD TYPE	AREA SERVED	REMARKS
UPRIGHT BRASS	MECHANICAL R'MS, ELECTRICAL R'MS, UNFINISHED STORAGE R'MS, GENERAL PURPOSE ROOM	PROVIDE GUARDS WHERE REQUIRED
SEMI-RECESSED PENDENT - WHITE	OFFICE'S, LOBBY'S, CLASSROOMS, LIBRARY	
FULLY RECESSED PENDENT WITH WHITE FACE PLATE	STUDENT WASHROOMS, CHANGE ROOMS FINISHED CORRIDOR'S	
DRY TYPE	WHERE INDICATED ON PLANS	
SIDE WALL	ELEVATOR SHAFT	

SPRINKLER HAZARD CLASSIFICATIONS

LIGHT HAZARD 0.10 gpm/sq. ft. OVER 1500 SQ. ft.	- OFFICE'S - MEETING ROOMS	- WASHROOMS
ORDINARY HAZARD GROUP 1 0.15 gpm/sq. ft. OVER 1500 SQ. ft.	- MECHANICAL EQUIPMENT RM'S - ELEVATOR MACHINE RM'S	- ELECTRICAL ROOMS - STORAGE ROOMS
ORDINARY HAZARD GROUP 1 0.15 gpm/sq. ft. OVER 2500 SQ. ft.	- ARENA AREA	
EXTRA ORDINARY HAZARD GROUP 1	N/A	

SUPERVISED VALVES

SUPERVISED VALVE NUMBER	SERVING	LOCATION
SV# 1	BACKFLOW PREVENTER	WATER METER ROOM - 1024
SV# 2	BACKFLOW PREVENTER	WATER METER ROOM - 1024
SV# 3	SPRINKLER ZONE No. 1	WATER METER ROOM - 1024
SV# 4	SPRINKLER ISOLATION	WATER METER ROOM - 1024
SV# 5	SPRINKLER ZONE No. 2	REF. ENTRANCE - 1016
SV# 6	SPRINKLER ZONE No. 3	REF. ENTRANCE - 1016

ALARM POINTS

ALARM POINT	SERVING	ASSOCIATE S.V.	LOCATION
LOSS OF PRESSURE	INCOMING WATER SERVICE		WATER METER ROOM - 1024
WATER FLOW ALARM	SPRINKLER ZONE No. 1	SV# 3	WATER METER ROOM - 1024
WATER FLOW ALARM	SPRINKLER ZONE No. 2	SV# 5	REF. ENTRANCE - 1016
WATER FLOW ALARM	SPRINKLER ZONE No. 3	SV# 6	REF. ENTRANCE - 1016
LOSS OF AIR PRESSURE	SPRINKLER ZONE No. 1		WATER METER ROOM - 1024

SUBMITTAL NOTES:

A. SPRINKLER WORK SHALL BE HYDRAULICALLY SIZED BY A PROFESSIONAL ENGINEER, BASED ON THE PROCEDURES OF NFPA-13. BE RESPONSIBLE FOR OBTAINING ALL REQUIRED WATER FLOW TEST AND PRESSURE DATA. SUBMIT FLOW TEST DATA AND CALCULATIONS USED, WITH SHOP DRAWINGS CALCULATIONS. USED FOR HYDRAULICALLY SIZED SYSTEMS SHALL BEAR THE PROFESSIONAL ENGINEER'S SIGNED STAMP.

B - COMPLETE AND DIMENSIONED SYSTEM LAYOUT DRAWINGS INDICATING ALL HEADS AND EQUIPMENT,
PIPE SIZING AND ALL CALCULATIONS AND DESIGN DATA USED IN PREPARING THE LAYOUTS AND
SIZING THE PIPING SHALL BE SUBMITTED AS SHOP DRAWINGS.

C - SHOP DRAWINGS MUST BE FIRST SUBMITTED TO AND APPROVED BY THE LOCAL GOVERNING AUTHORITIES PRIOR TO BEING SUBMITTED TO THE CONSULTANT FOR REVIEW.

ARCHITECTURE 49

CONSULTANT - SUB CONSULTANT



SEAL

CLIENT



CLIENT REF. #1

PROJECT

Victoria Park Arena

20 Victoria Crescent, Brampton, ON L6T 1E4

KEY PLAN

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10	2023/10/27	ISSUED FOR TENDER
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8	2022/08/15	ISSUED FOR BUILDING PERMIT
7	2022/08/05	ISSUED FOR TENDER - FINAL
6	2022/04/13	ISSUED FOR TENDER
5	2022/03/25	ISSUED FOR BUILDING PERMIT
4	2022/03/02	ISSUED FOR TENDER REVIEW
3	2021/11/26	REISSUED FOR 90% REVIEW
2	2021/11/19	ISSUED FOR TENDER REVIEW
1	2021/09/27	ISSUED FOR PROGRESS REVIEW

PROJECT NO:	DATE:
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209-00238-00 2024/11/08

ORIGINAL SCALE:	IF THIS BAR IS NOT
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FIRE PROTECTION DETAILS

SHEET NUMBER: _____

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SHEET NO. _____ OF _____	
ISSUE: _____	DATE: _____

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OBJECT:

Victoria Park Arena

20 Victoria Crescent, Brampton, ON L6T 1E4

PLAN:

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1	2024/11/08	ISSUED FOR CONSTRUCTION
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9	2023/10/27	ISSUED FOR TENDER
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1	2021/11/19	ISSUED FOR TENDER REVIEW

PROJECT NO.	DATE	DESCRIPTION	DATE
99-00238-00			2024/11/08
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DATE OF: 2024/11/08

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CLIENT:



PROJECT:

20 Victoria Crescent, Brampton, ON L6T 1E4

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THIS DRAWING IS NOT TO BE SCALED.

12	2024/11/08	ISSUED FOR CONSTRUCTION
11	2024/05/29	ISSUED FOR TENDER
10	2023/10/27	ISSUED FOR TENDER
9	2023/09/22	ISSUED FOR TENDER
8	2022/08/15	ISSUED FOR BUILDING PERMIT
7	2022/08/05	ISSUED FOR TENDER - FINAL
6	2022/04/13	ISSUED FOR TENDER
5	2022/03/25	ISSUED FOR BUILDING PERMIT
4	2022/03/02	ISSUED FOR TENDER REVIEW
3	2021/11/26	REISSUED FOR 90% REVIEW
2	2021/11/19	ISSUED FOR TENDER REVIEW
1	2021/09/27	ISSUED FOR PROGRESS REVIEW
REV	DATE	DESCRIPTION

PROJECT NO: 209-00238-00	DATE: 2024/11/08
ORIGINAL SCALE: 1 : 2	IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.
DESIGNED BY: MK	 1"
DRAWN BY: SG/VO	
CHECKED BY: MK	

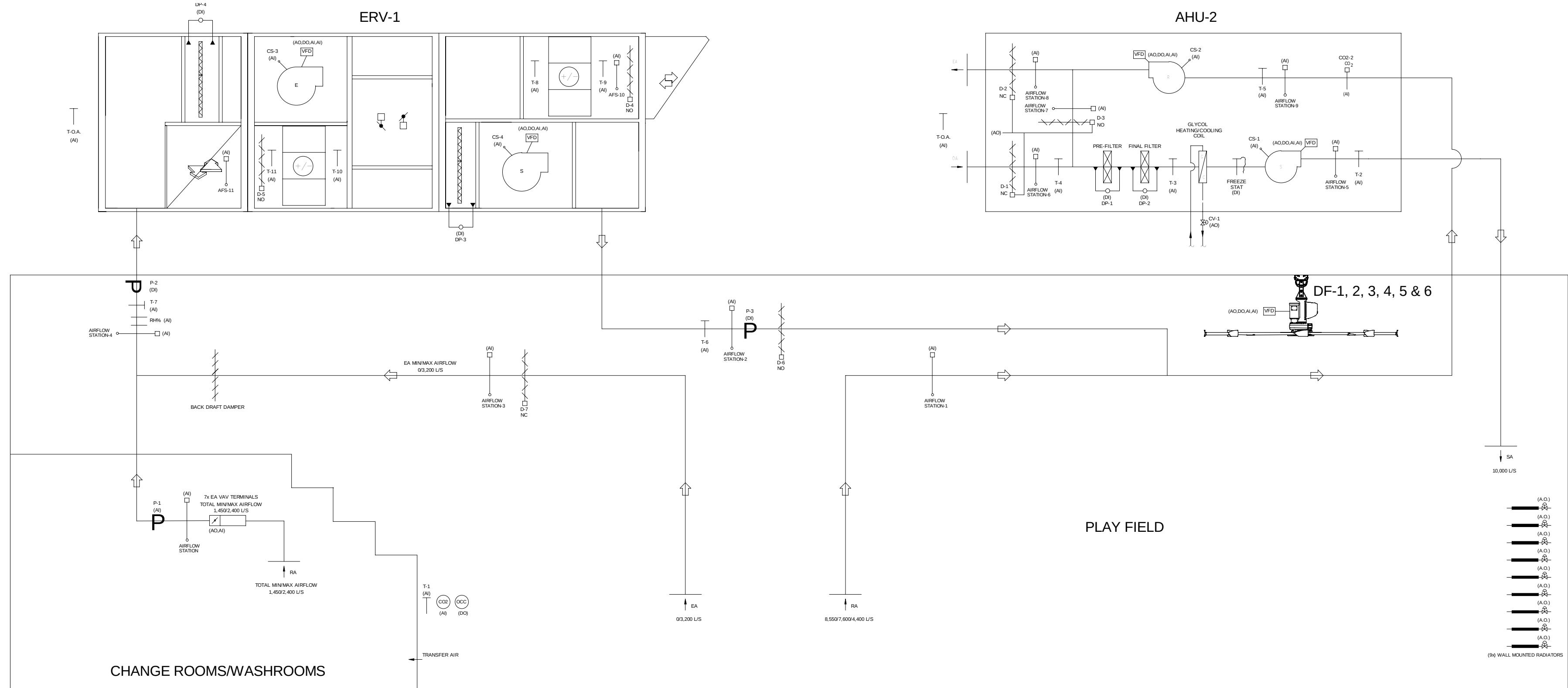
TITLE:

CONTROL DIAGRAMS #2 - MECHANICAL

M-701

SHEET #: _____ OF _____
ISSUE: _____
ISSUED FOR CONSTRUCTION

12



PLAY FIELD "AHU-2, ERV-1, DF-1 TO DF-6 & WALL FINS RADIATORS" CONTROL DIAGRAM

ABL-2 AND ERY-1 SEQUENCE OF ORIENTATION

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11.3

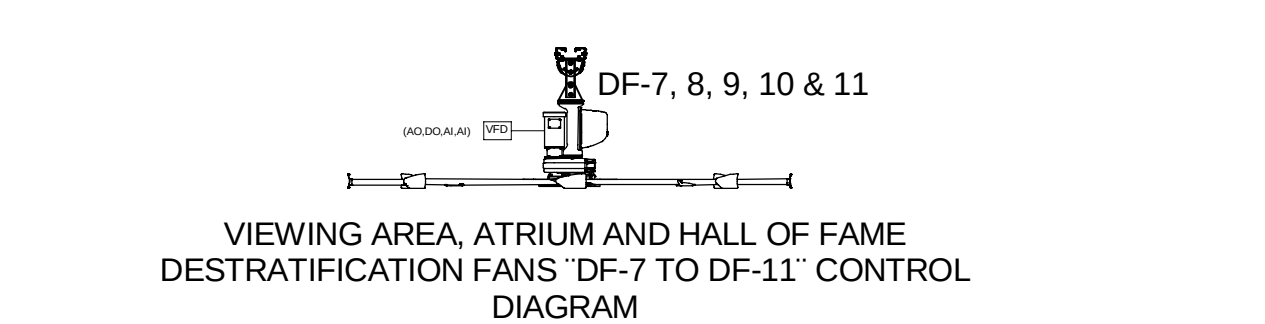
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|-------|-----|---|
| 11.1 | CO | CURRENT DATA ADDRESS OR INDEX FOR THE MOTOR STOPPED PROGRAMMED PARAMETER |
| 11.2 | CO | 1 SUPPLY VOLT BASIC FREQUENCY |
| 11.3 | CO | 2 FREQ. PRESELECTION SWITCH POSITION |
| 11.4 | CO | 3 COOLING FAN ON/OFF POSITION |
| 11.5 | CO | 4 COOLING FAN ON/OFF POSITION |
| 11.6 | CO | ALL TEMPERATURE SENSORS (T1, T2, S1, S2, S3, S4, S5, S6, S7, S8) HIGH LIMIT |
| 11.7 | CO | ALL AIRLINE EXTENSION FUSES (AF1, AF2, AF3, AF4, AF5, AF6, AF7, AF8) |
| 11.8 | AL | ALARM TERMINALS (FLOW LINES) |
| 11.9 | | TERMINALS (FLOWS) |
| 11.10 | T1 | 1-1 TEMPERATURE |
| 11.11 | T2 | 1-2 SUPPLY AIR TEMPERATURE |
| 11.12 | T3 | 1-3 RETURN AIR TEMPERATURE |
| 11.13 | T4 | 1-4 RETURN AIR TEMPERATURE |
| 11.14 | T5 | 1-5 OUTDOOR AIR TEMPERATURE |
| 11.15 | T6 | 1-6 OUTDOOR AIR TEMPERATURE |
| 11.16 | T7 | 1-7 F.O.A. DISCHARGE AIR TEMPERATURE |
| 11.17 | AF1 | AF1 ON FUSE LINE |
| 11.18 | AF2 | AF2 ON FUSE LINE |
| 11.19 | AF3 | AF3 ON FUSE LINE |
| 11.20 | AF4 | AF4 ON FUSE LINE |
| 11.21 | AF5 | AF5 ON FUSE LINE |
| 11.22 | AF6 | AF6 ON FUSE LINE |
| 11.23 | AF7 | AF7 ON FUSE LINE |
| 11.24 | AF8 | AF8 ON FUSE LINE |
| 11.25 | CO | 1-1 SPACE COOL. QUANTITY RETURN FLOW (LINES) |
| 11.26 | CO | 2-1 RETURN AIR COOL. (LINE) |
| 11.27 | P1 | 1-1 DISCHARGE AIR STATIC PRESSURE |
| 11.28 | W1 | W1 RETURN AIR SPEED |
| 11.29 | W2 | W2 RETURN AIR SPEED |
| 11.30 | W3 | W3 ON AIR SPEED |
| 11.31 | W4 | W4 ON AIR SPEED |
| 11.32 | W5 | W5 ON AIR SPEED |
| 11.33 | W6 | W6 ON AIR SPEED |
| 11.34 | W7 | W7 ON AIR SPEED |
| 11.35 | W8 | W8 ON AIR SPEED |
| 11.36 | W9 | W9 ON AIR SPEED |
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| 11.40 | W13 | W13 ON AIR SPEED |
| 11.41 | W14 | W14 ON AIR SPEED |
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| 11.98 | W71 | W71 ON AIR SPEED |
| 11.99 | W72 | W72 ON AIR SPEED |
| 12.00 | W73 | W73 ON AIR SPEED |
| 12.01 | W74 | W74 ON AIR SPEED |
| 12.02 | W75 | W75 ON AIR SPEED |
| 12.03 | W76 | W76 ON AIR SPEED |
| 12.04 | W77 | W77 ON AIR SPEED |

59

1. ON INITIAL START-UP, DAMPERS D-1, D-2 AND D-3 SHALL BE IN THE FULLY CLOSED POSITION, DAMPER D-4, D-5 AND D-6 SHALL BE IN THE FULLY OPEN POSITION. UPON ACTIVATION OF THE FREEZE STAT, THE SUPPLY AND RETURN FANS SHALL STOP AND NOT AUTOMATICALLY RE-START. PROVIDE AN ALARM AT THE R.A.S.
2. REFER TO PLANS, SCHEDULES AND DETAILS FOR QUANTITIES OF CO₂ SENSORS, TEMPERATURE SENSORS, COIL CONTROL VALVES AND OTHER DEVICES.
3. CONTROL POINTS ARE DEFINED FOR EACH VFD AS:
- 4.1. DO - ENABLE/DEENABLE
 - 4.2. AO - FAN SPEED VARIABLE
 - 4.3. AI - MOTOR CURRENT
 - 4.4. AI - DRIVE POSITION
5. OUTDOOR AIR TEMPERATURE (T-O-A) AND ENTHALPY ARE PROVIDED BY BUILDING OUTDOOR AIR TEMPERATURE AND ENTHALPY STATION.

3. FANS SHALL BE ENABLED THROUGH B.A.S. ON A PROGRAMMABLE TIME SCHEDULE.

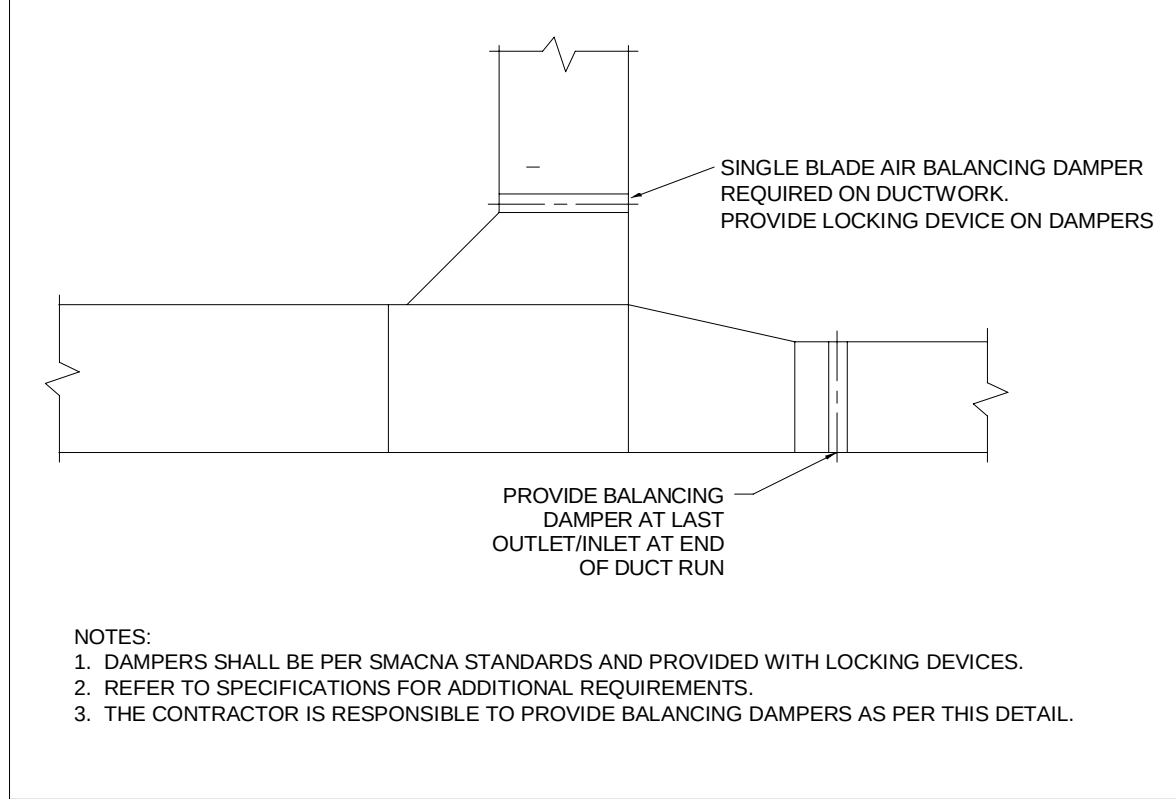
1. ENSURE SHIP IS ENCLOSED UNDER A/C ON A PROTECT THE SEEDS/COLD OR LOCALLY AT THE MINI-COMPUTER, SHIP. ONCE ENCLOSED, DAMP SHIP OPERATES IN ACCORDANCE WITH THE FOLLOWING CONTROL SEQUENCES:
2. IF THE BUILDING AUTOMATION SYSTEM DETECTS THE TEMPERATURE OF THE FOLLOWING PARAMETERS:
3. SPACE TEMPERATURE, HUMIDITY, THERMISTAT FOR SPACE, OR/AND IN TEMPERATURE, SEVERAL MINUTES THERMISTAT
4. 2.1. FAN OFF
5. 2.2. FAN OFF
6. 2.3. AIR FLOW NOT SET OPERATING MODE
7. 2.4. AIR FLOW NOT SET OPERATING MODE
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202. 2.199.



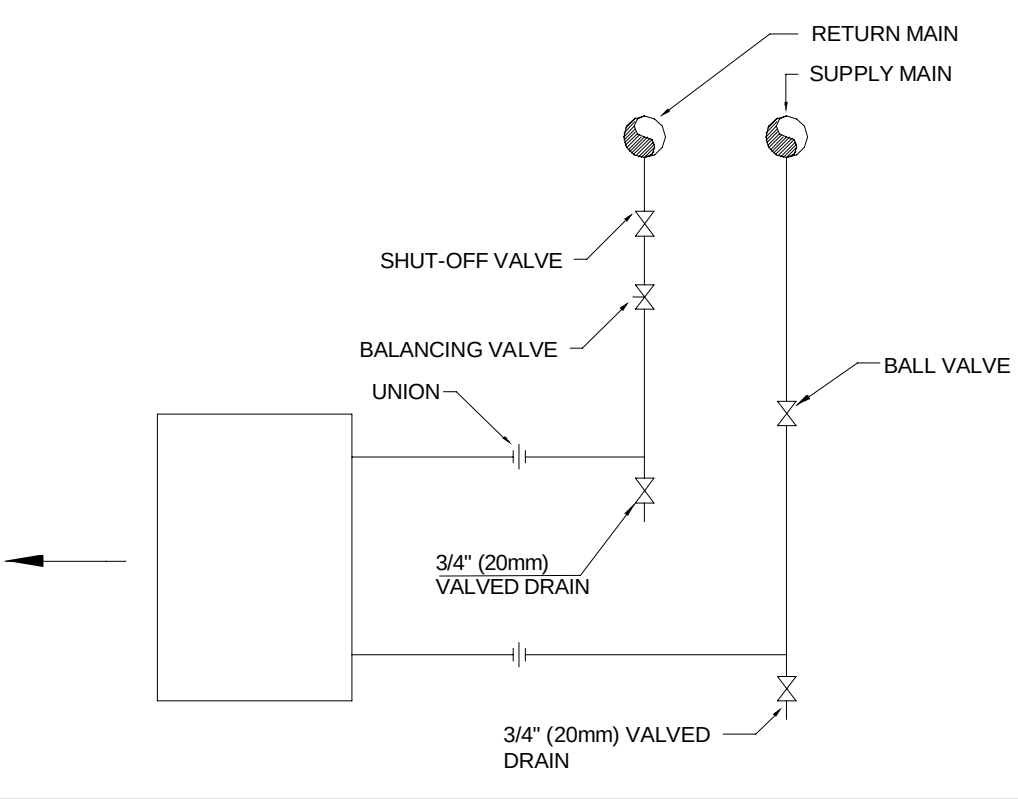
VIEWING AREA, ATRIUM AND HALL OF FAME
DESTRATIFICATION FANS "DF-7 TO DF-11" CONTROL
DIAGRAM

1. FANS SHALL BE ENABLED THROUGH B.A.S. ON A PROGRAMMABLE TIME SC

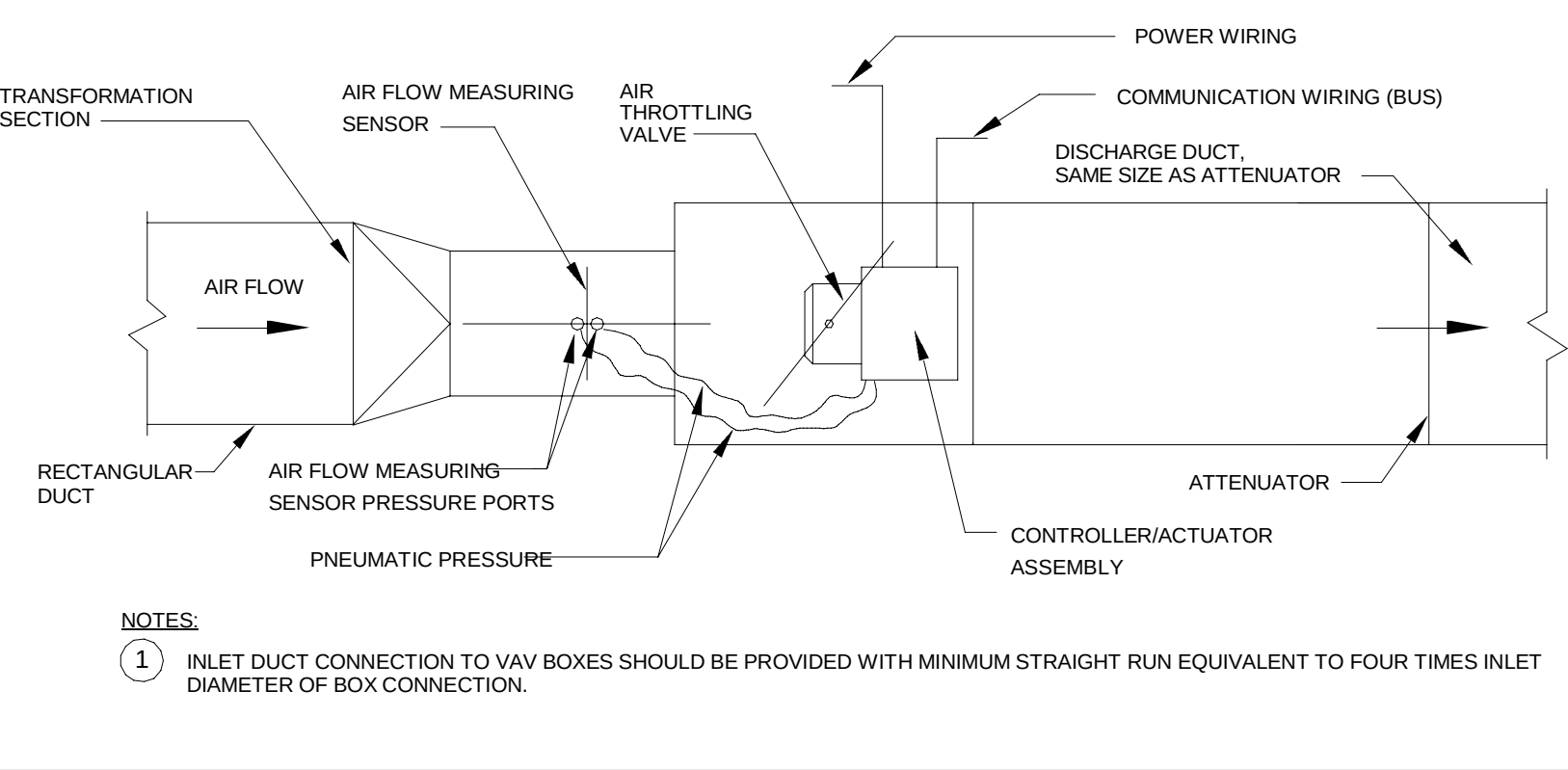
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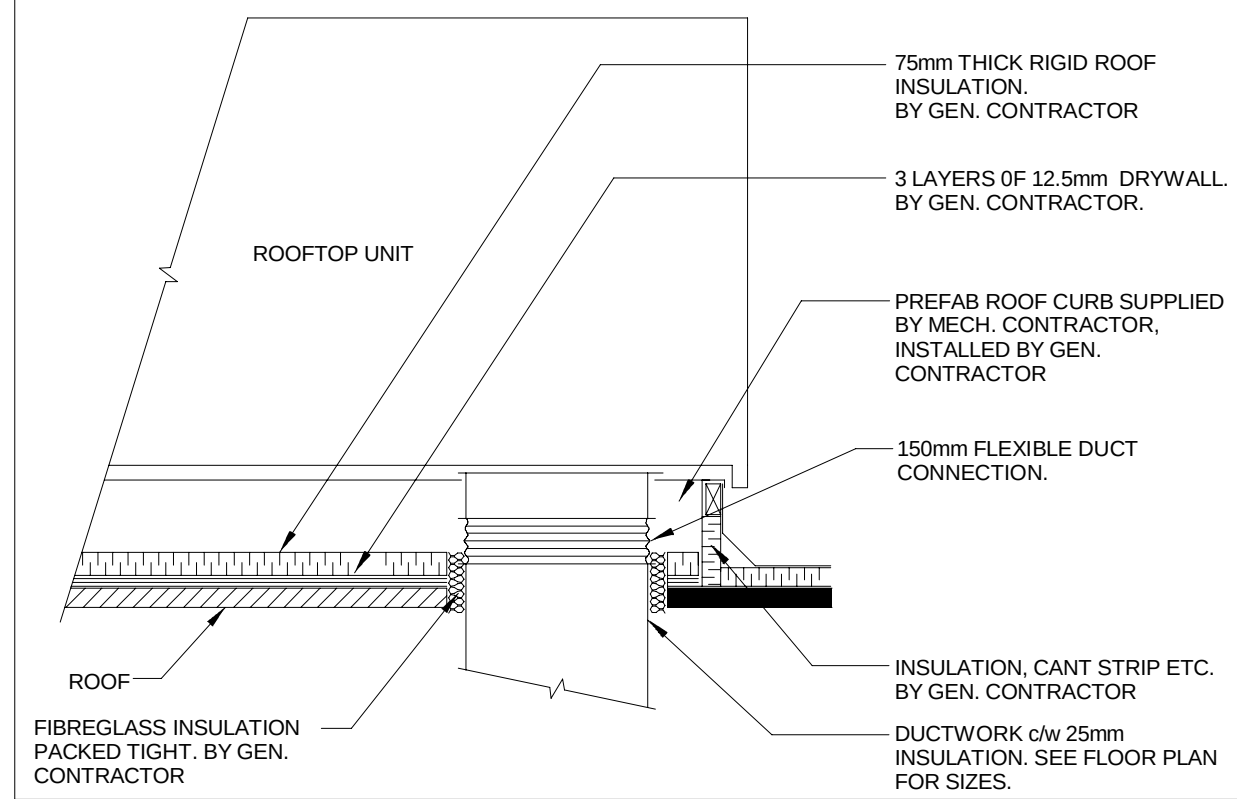
DETAIL OF TYPICAL BRANCH DUCT TAKE-OFFS FROM MAIN DUCTWORK
N.T.S.



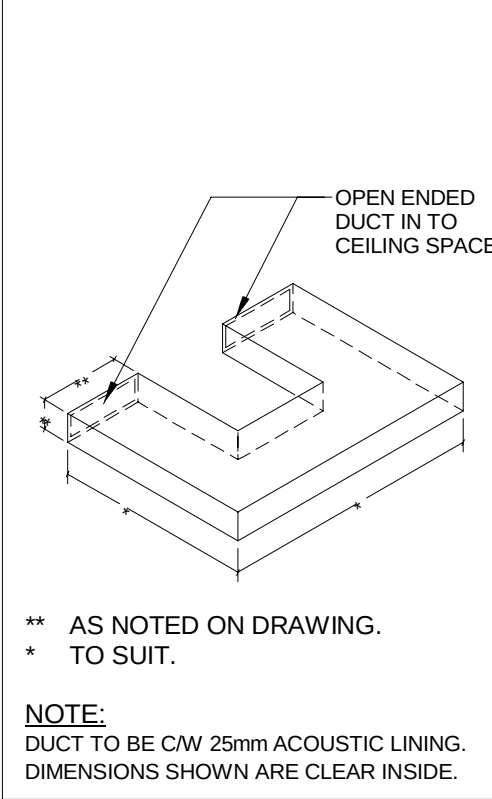
MOTORIZED HEATER PIPING
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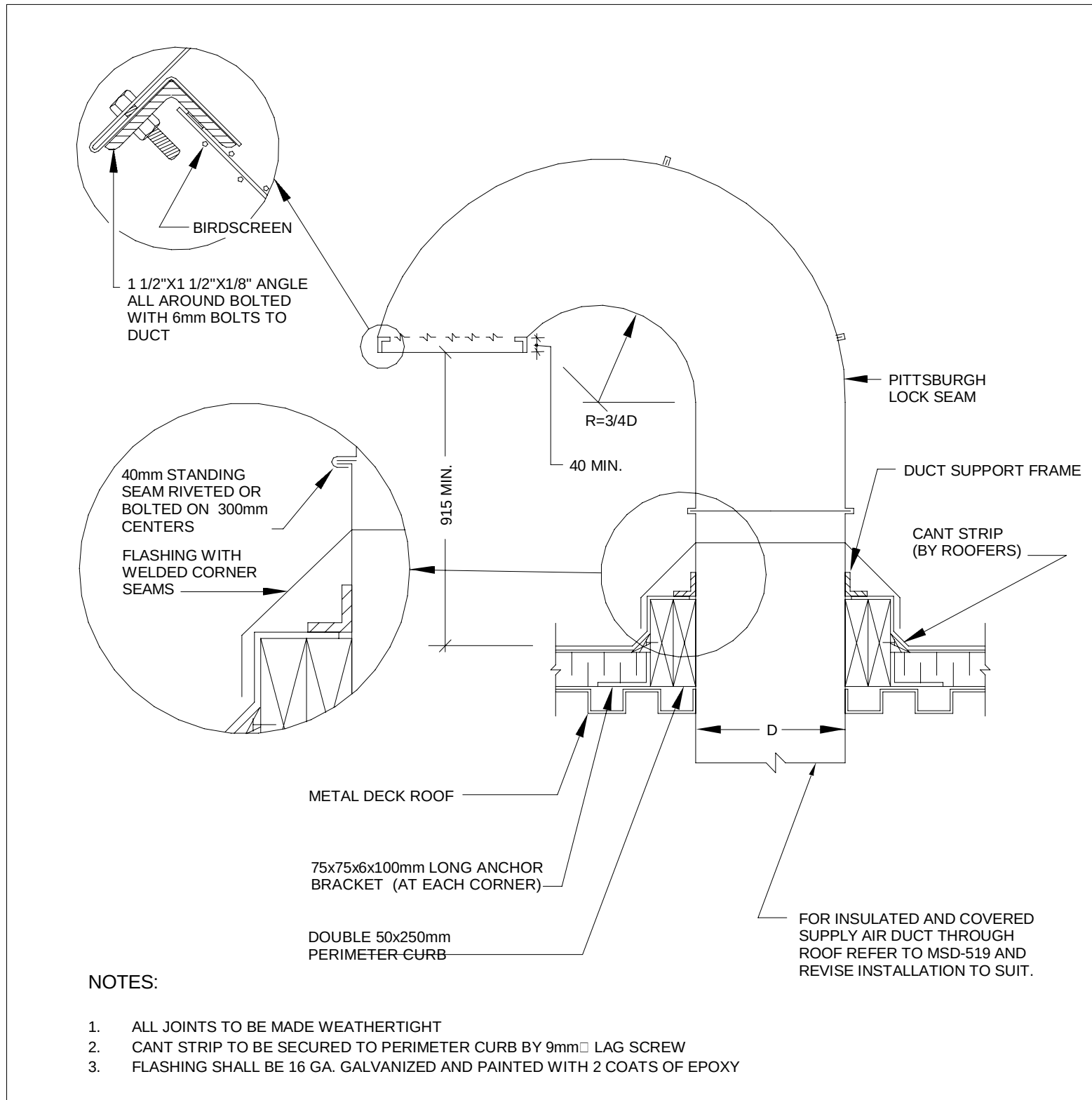
TYPICAL DETAIL OF V.A.V. BOX
N.T.S.



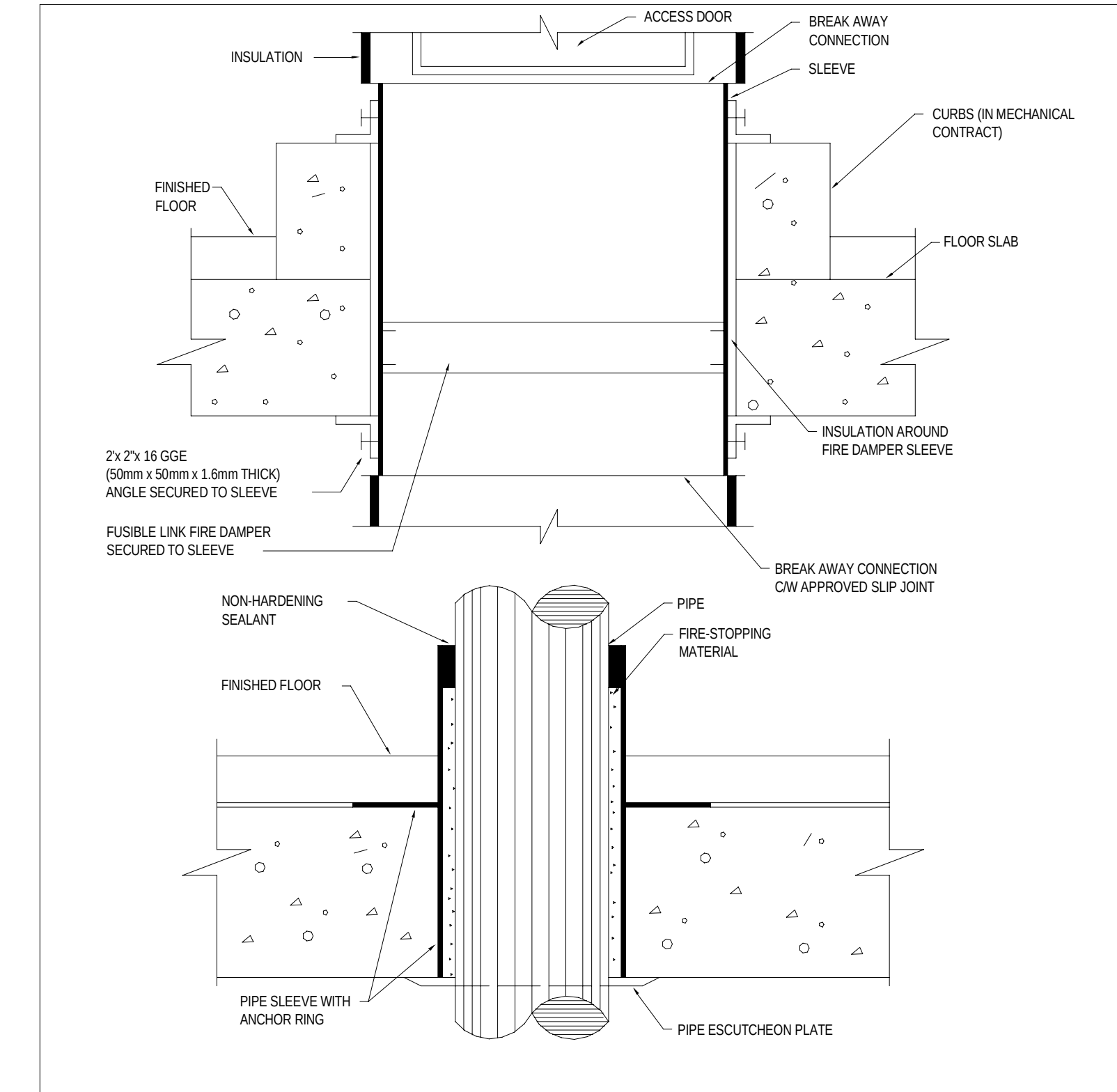
AIR HANDLING UNIT MOUNTING DETAIL
N.T.S.



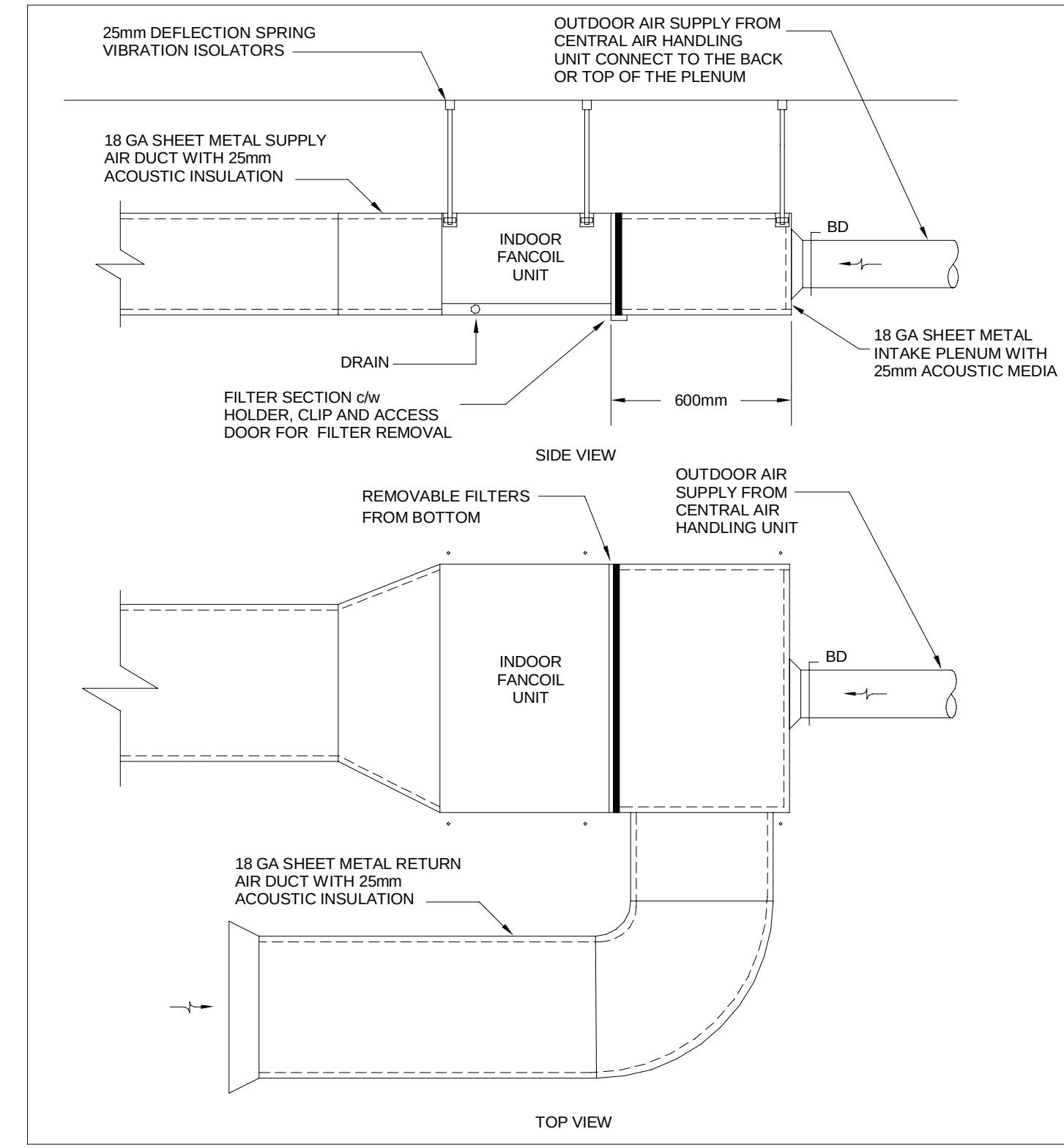
TRANSFER DUCTS
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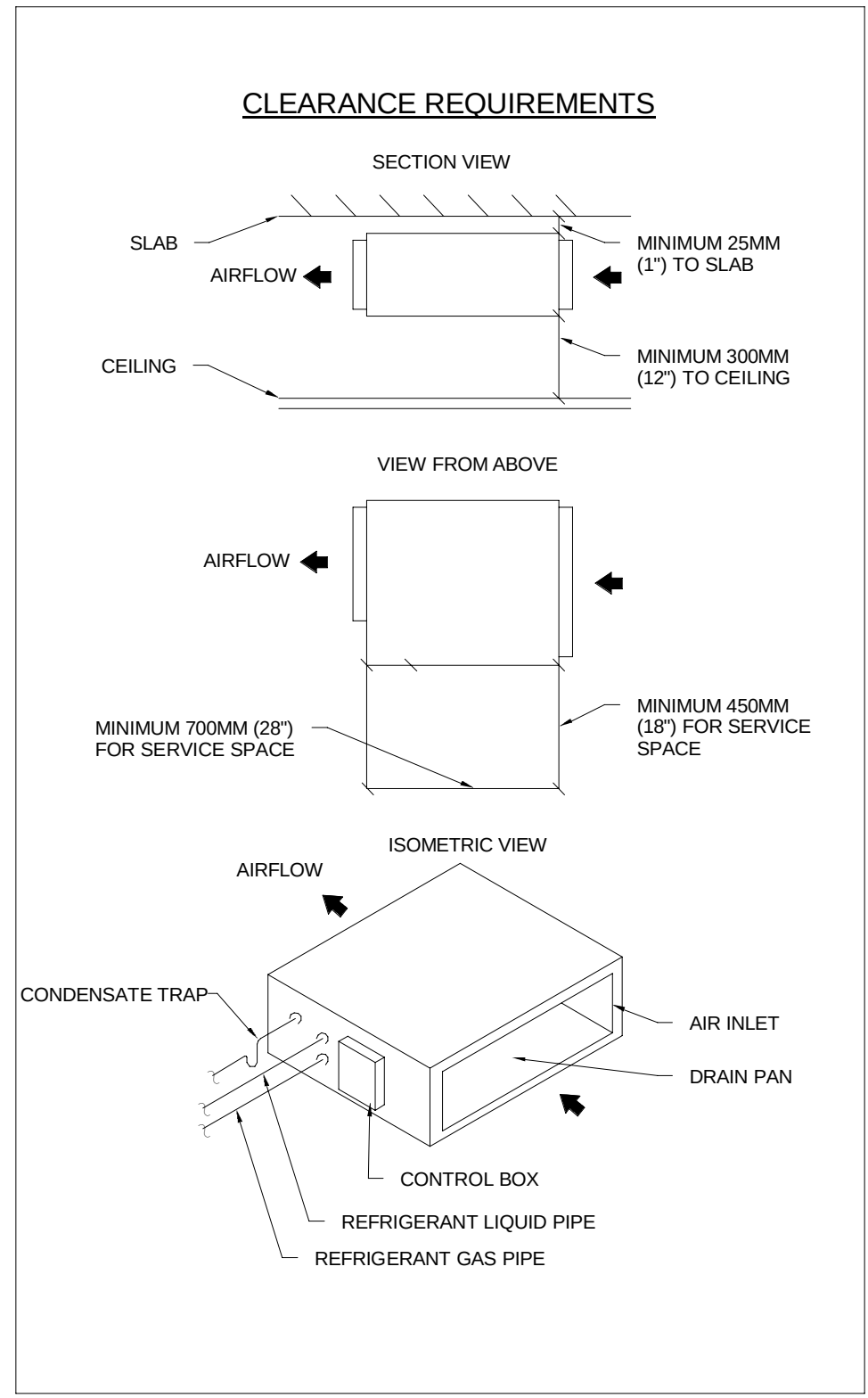
GOOSENECK DETAIL
N.T.S.



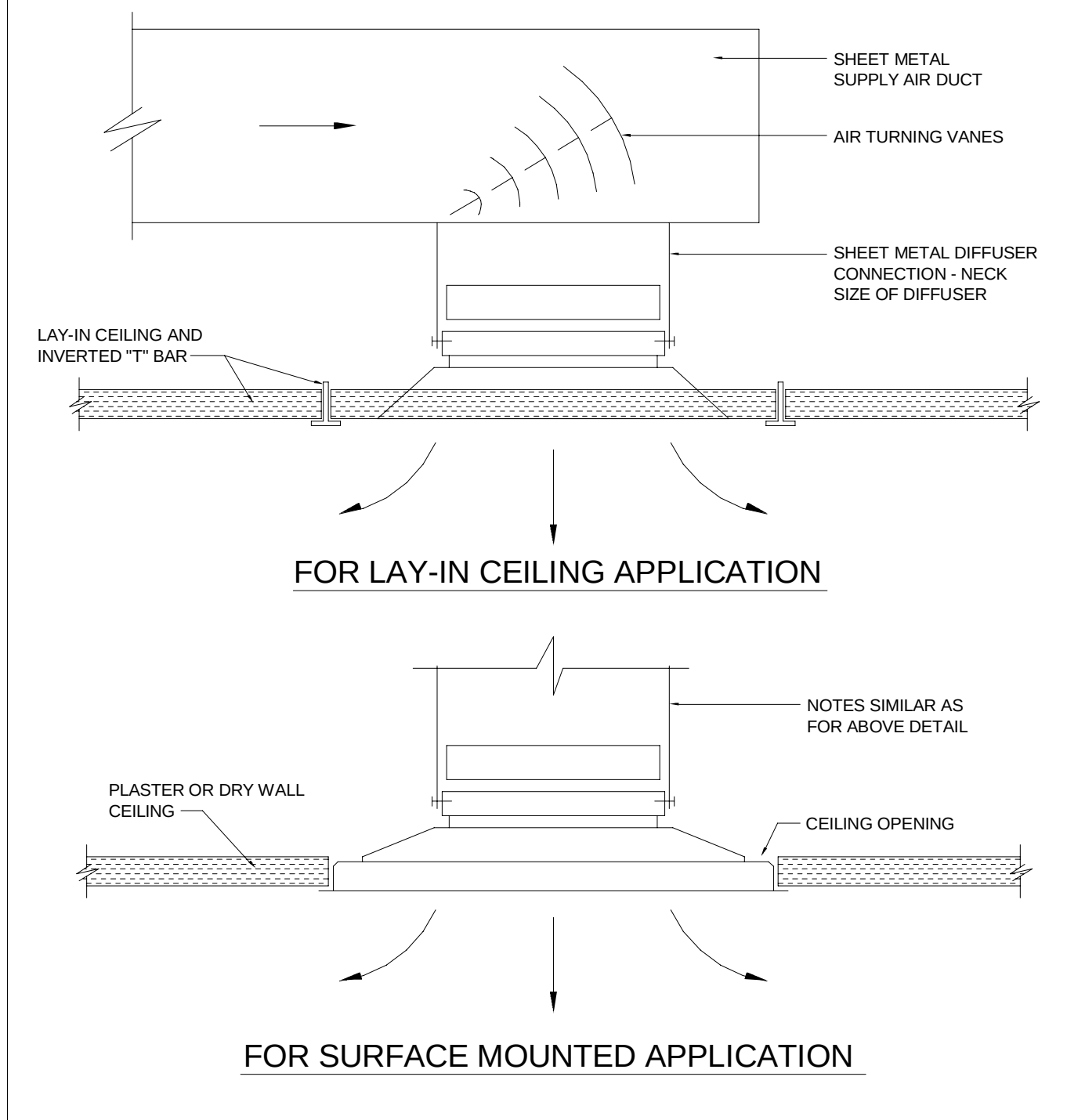
PIPE AND DUCT PENETRATIONS MECHANICAL ROOM FLOORS
N.T.S.



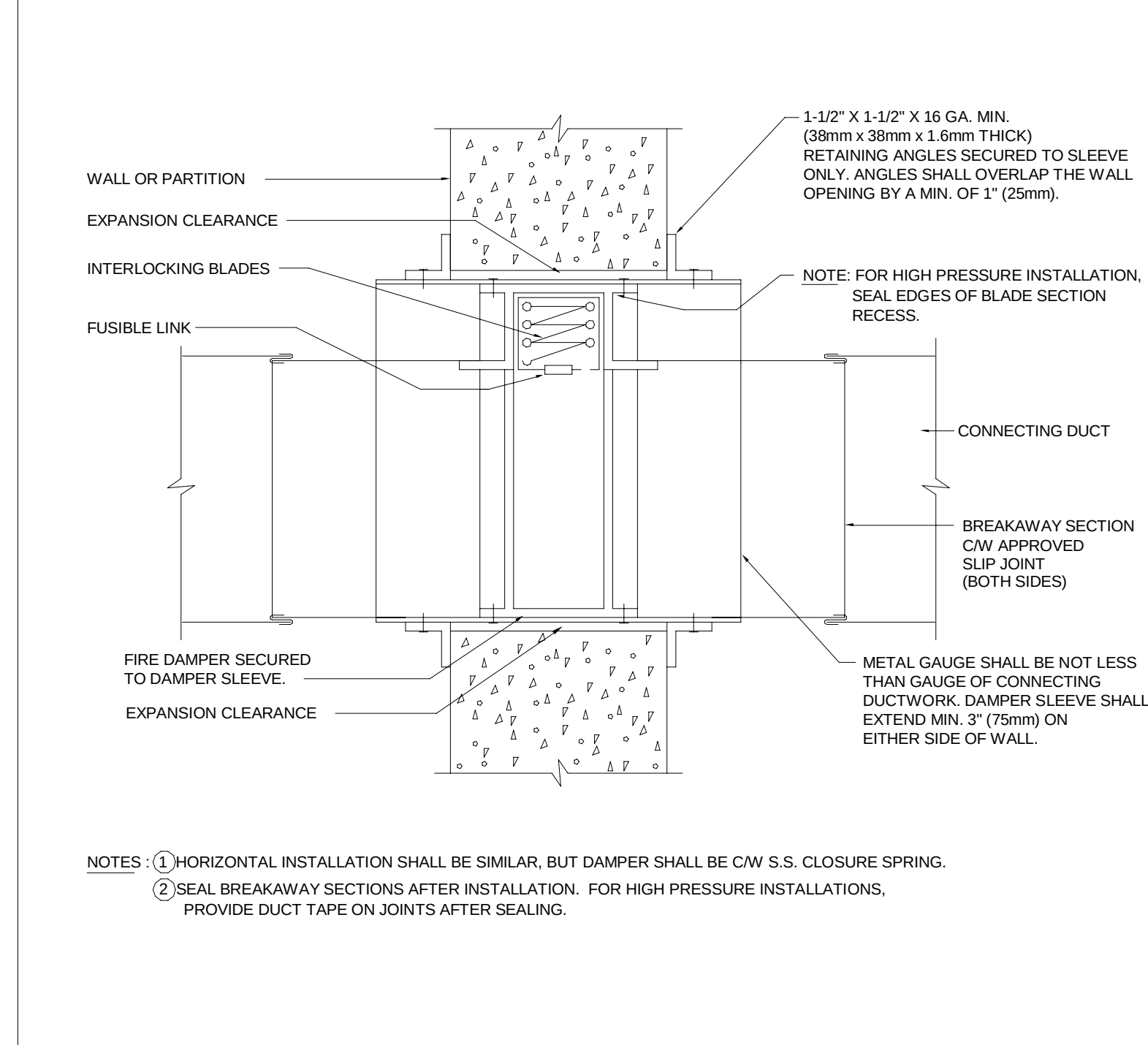
FANCOIL UNIT WITH O/A AND R/A DUCT CONNECTIONS
N.T.S.



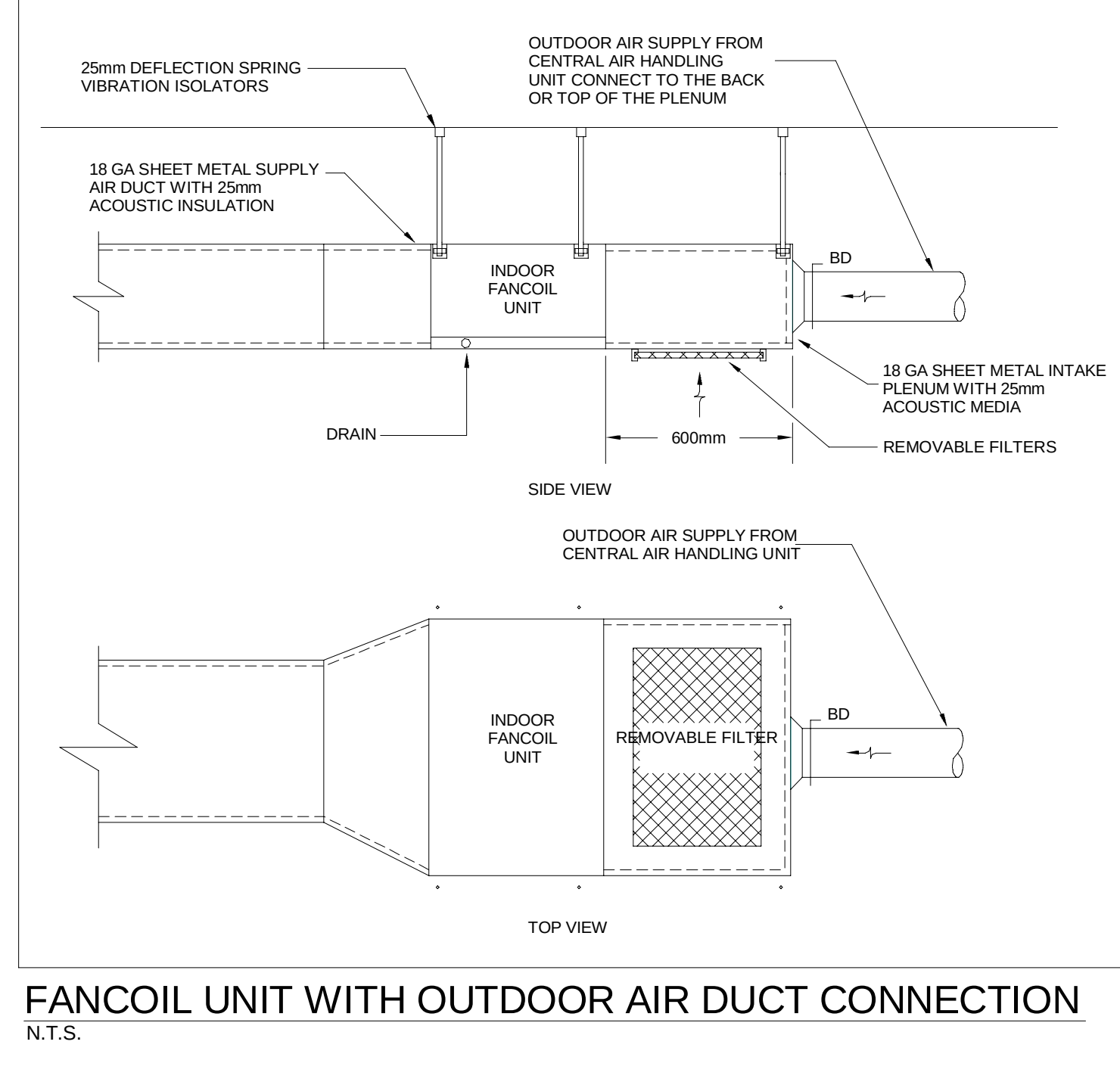
DETAIL OF VRF FAN COIL UNIT
N.T.S.



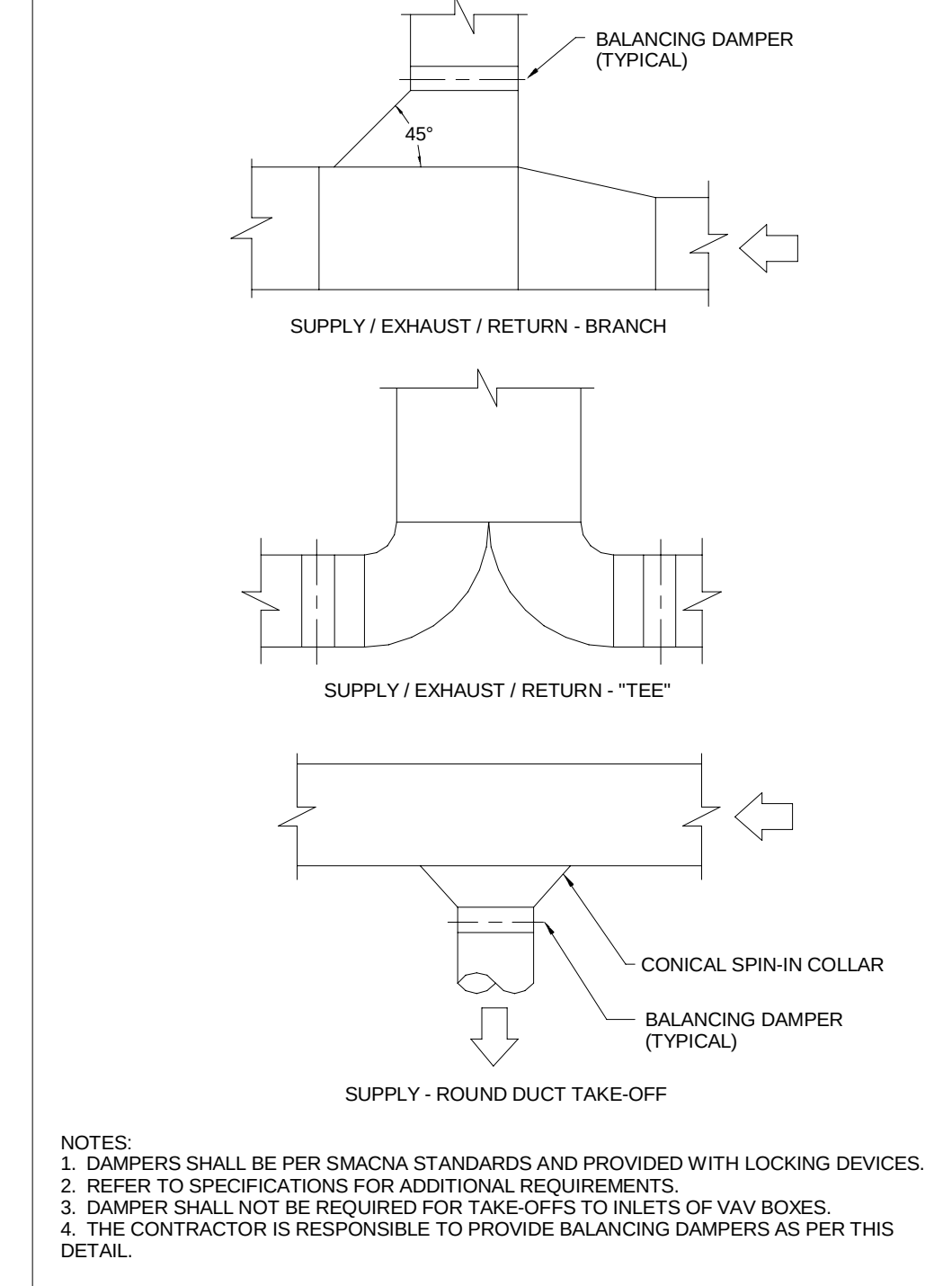
TYPICAL DETAIL OF CEILING DIFFUSER
N.T.S.



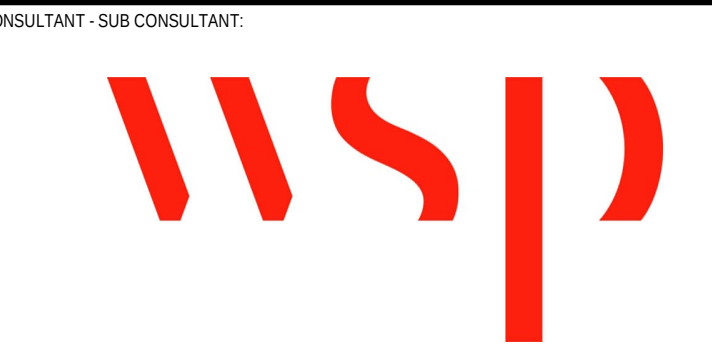
TYPICAL DETAIL OF VERTICAL MOUNTED FIRE DAMPER INSTALLATION
N.T.S.



FANCOIL UNIT WITH OUTDOOR AIR DUCT CONNECTION
N.T.S.



DETAIL OF TYPICAL DUCTWORK FITTINGS
N.T.S.



CONSULTANT - SUB CONSULTANT:

SEAL:

CIENT:



CLIENT REF. #:
PROJECT:

Victoria Park Arena
20 Victoria Crescent, Brampton, ON L6T 1E4

KEY PLAN:

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1:1	1"

DESIGNED BY:	CHECKED BY:
MK	MK

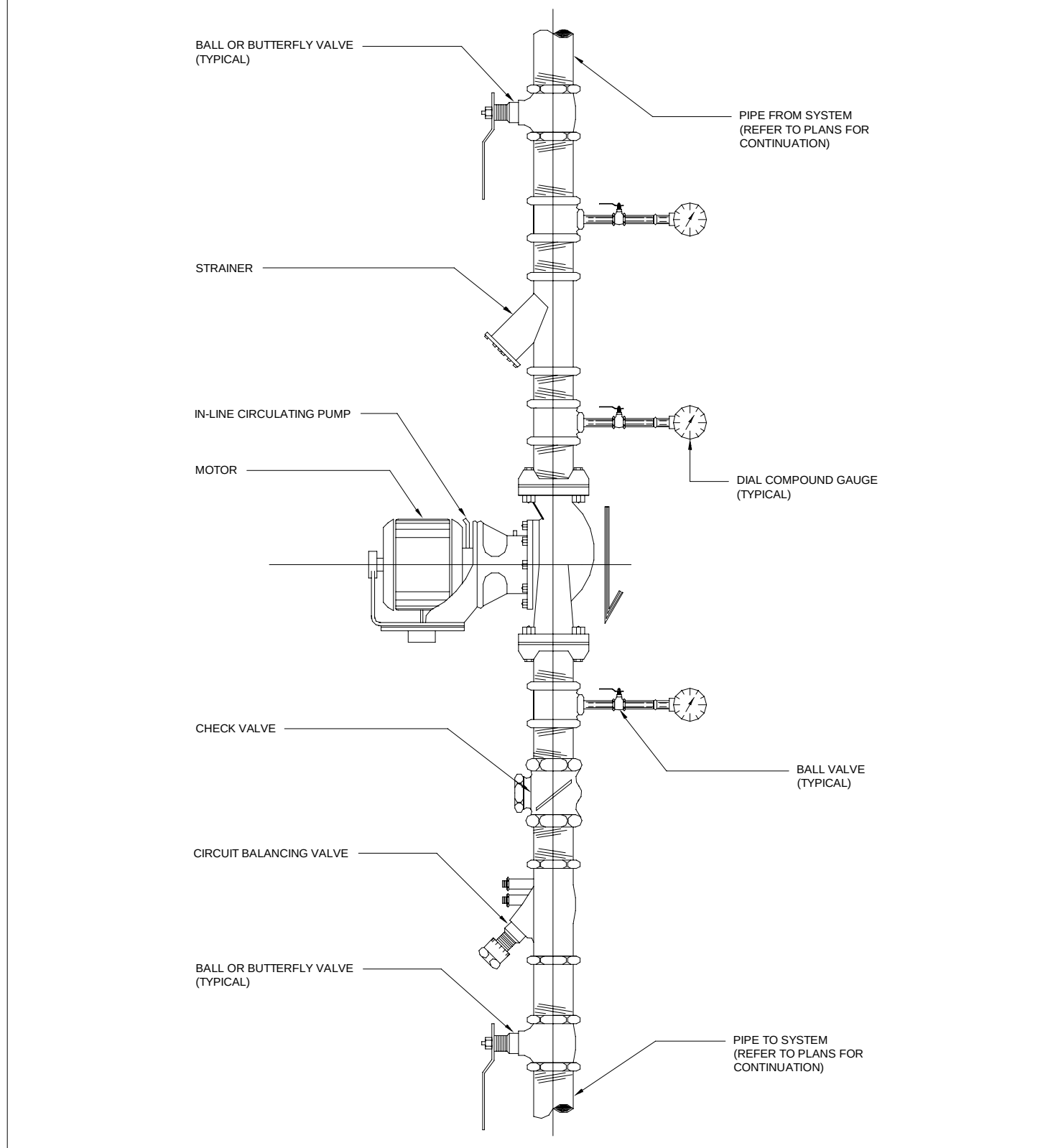
DRAWN BY:	DISCIPLINE:
SGVO	

TITLE:	DATE OF:
STANDARD DETAILS - MECHANICAL 1	2024/11/08

SHEET NO.	OF
M-800	

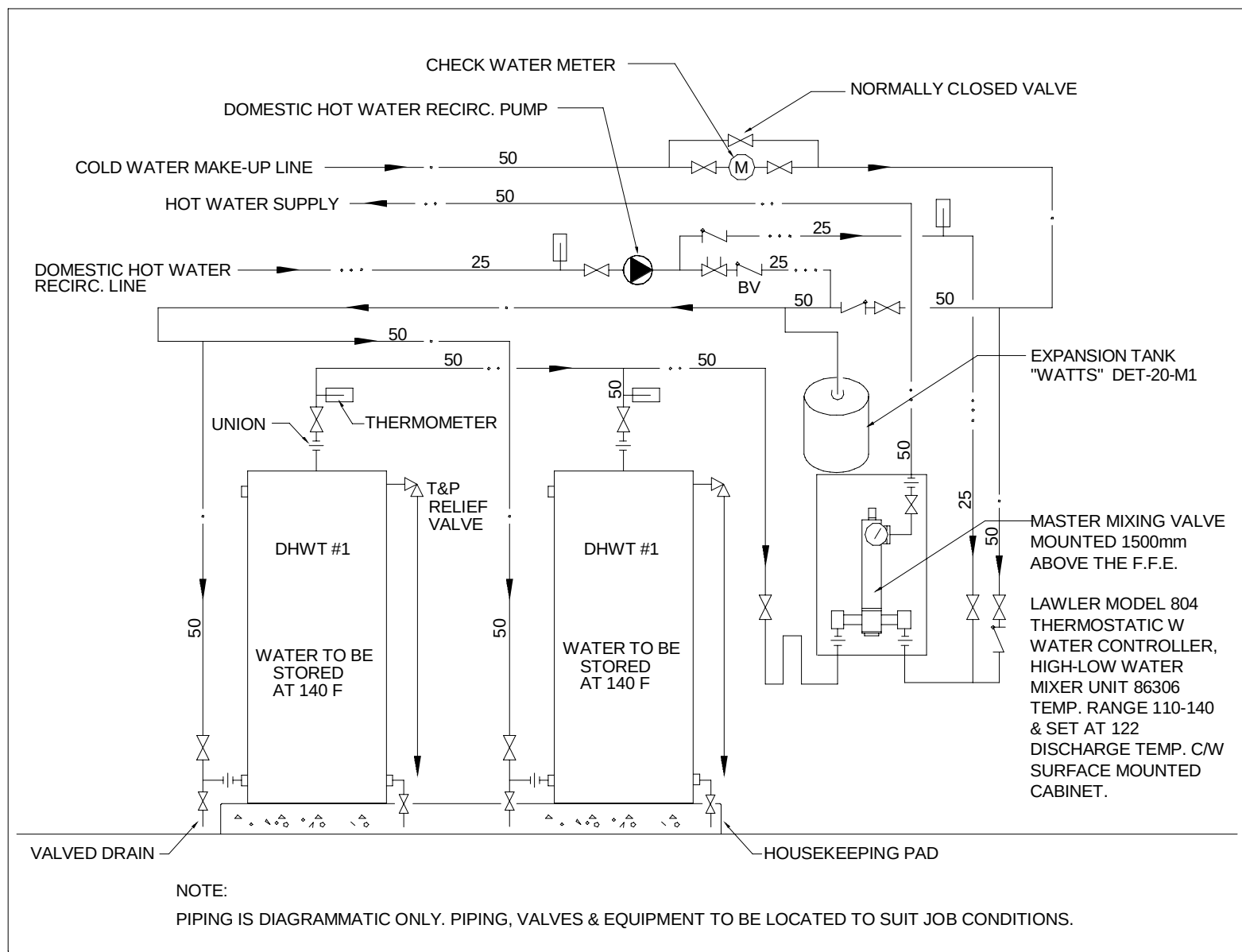
ISSUE:	REV #
ISSUED FOR CONSTRUCTION	13

DATE OF:	REV #
2024/11/08	



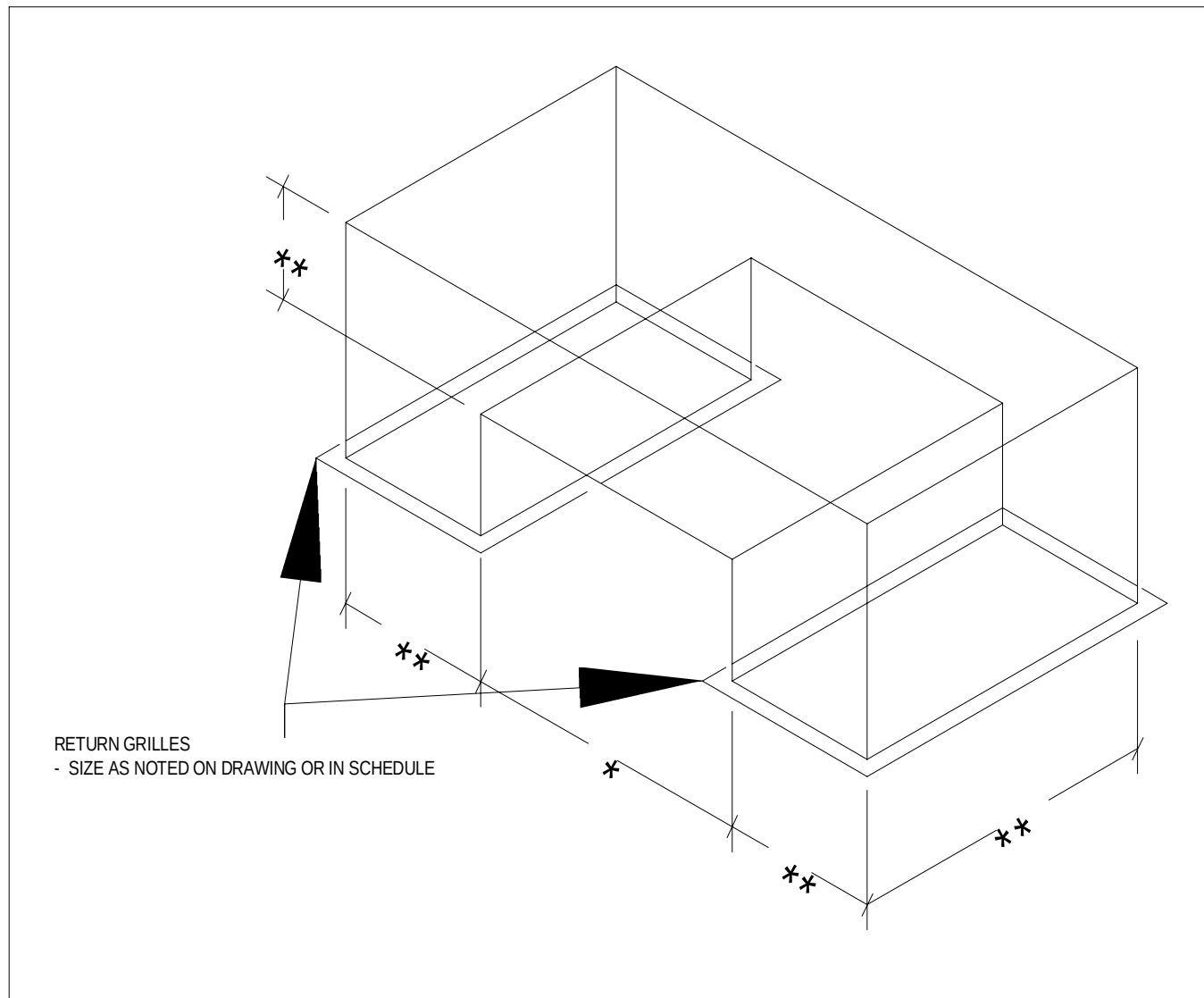
IN-LINE CIRCULATOR PUMP INSTALLATION DETAIL

N.T.S.



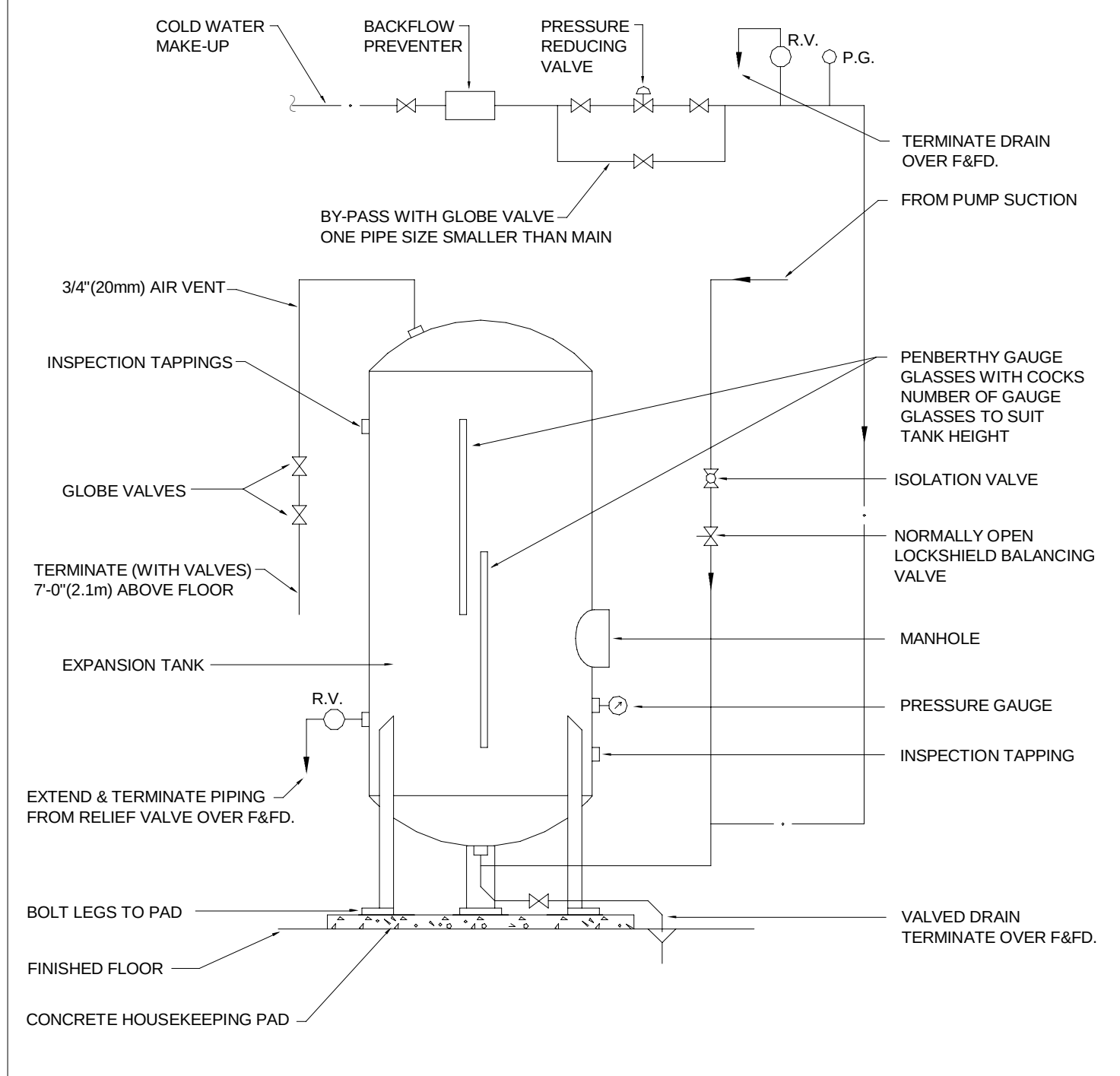
DETAIL OF ELECTRIC DUAL HOT WATER STORAGE TANKS

N.T.S.



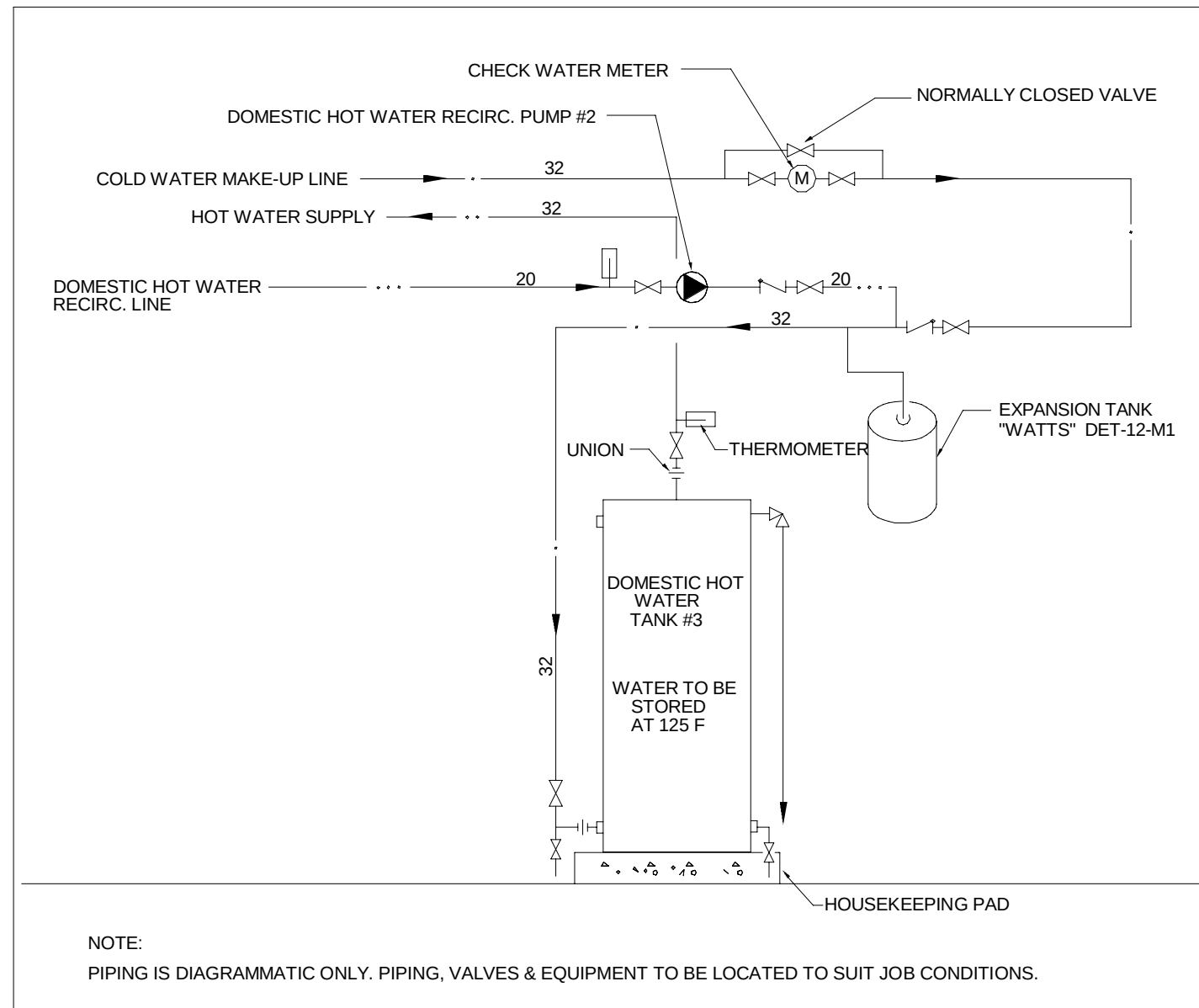
DETAIL OF TRANSFER AIR DUCT C/W GRILLE (TYPE C)

N.T.S.



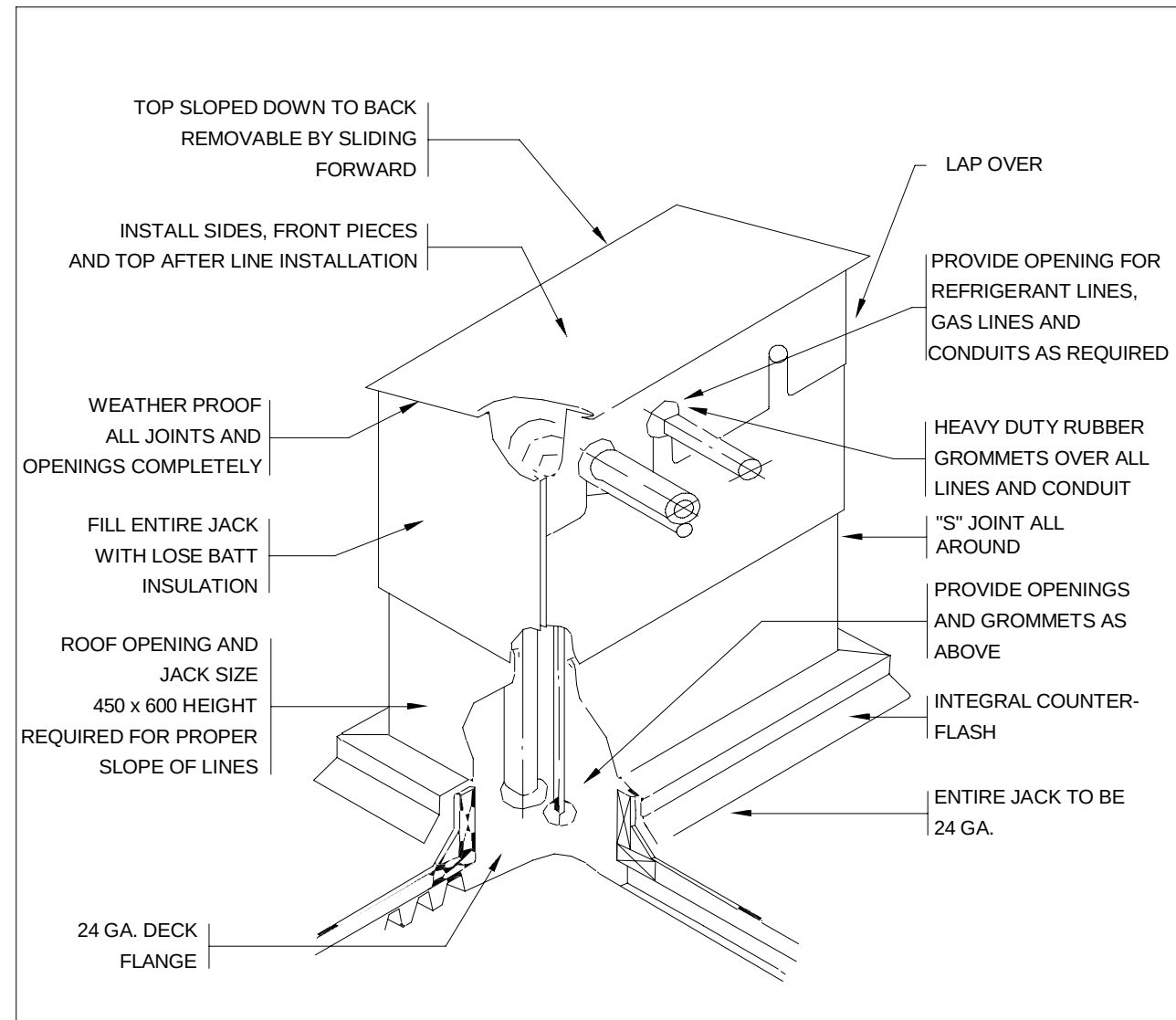
VERTICAL EXPANSION TANK (WATER)

N.T.S.



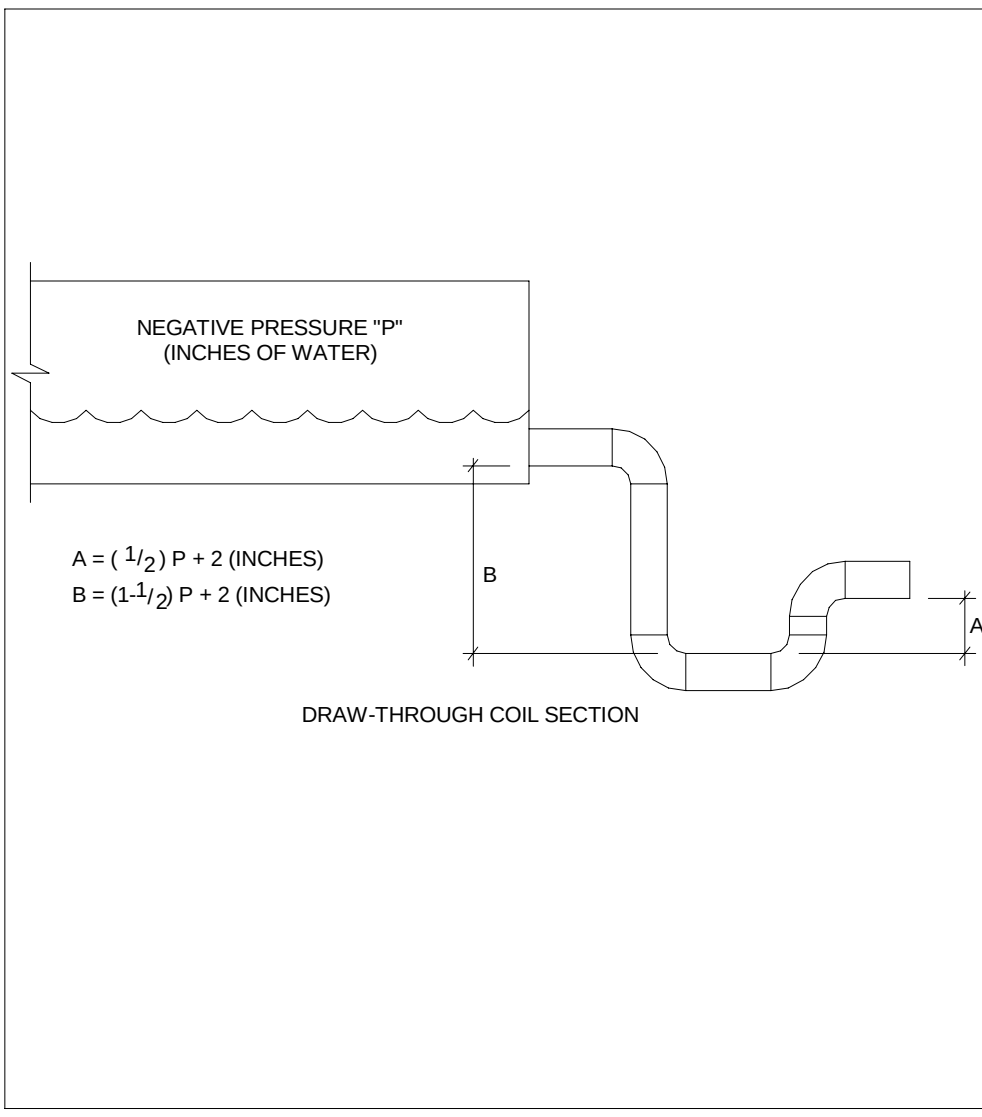
DETAIL OF ELECTRIC HOT WATER STORAGE TANK

N.T.S.



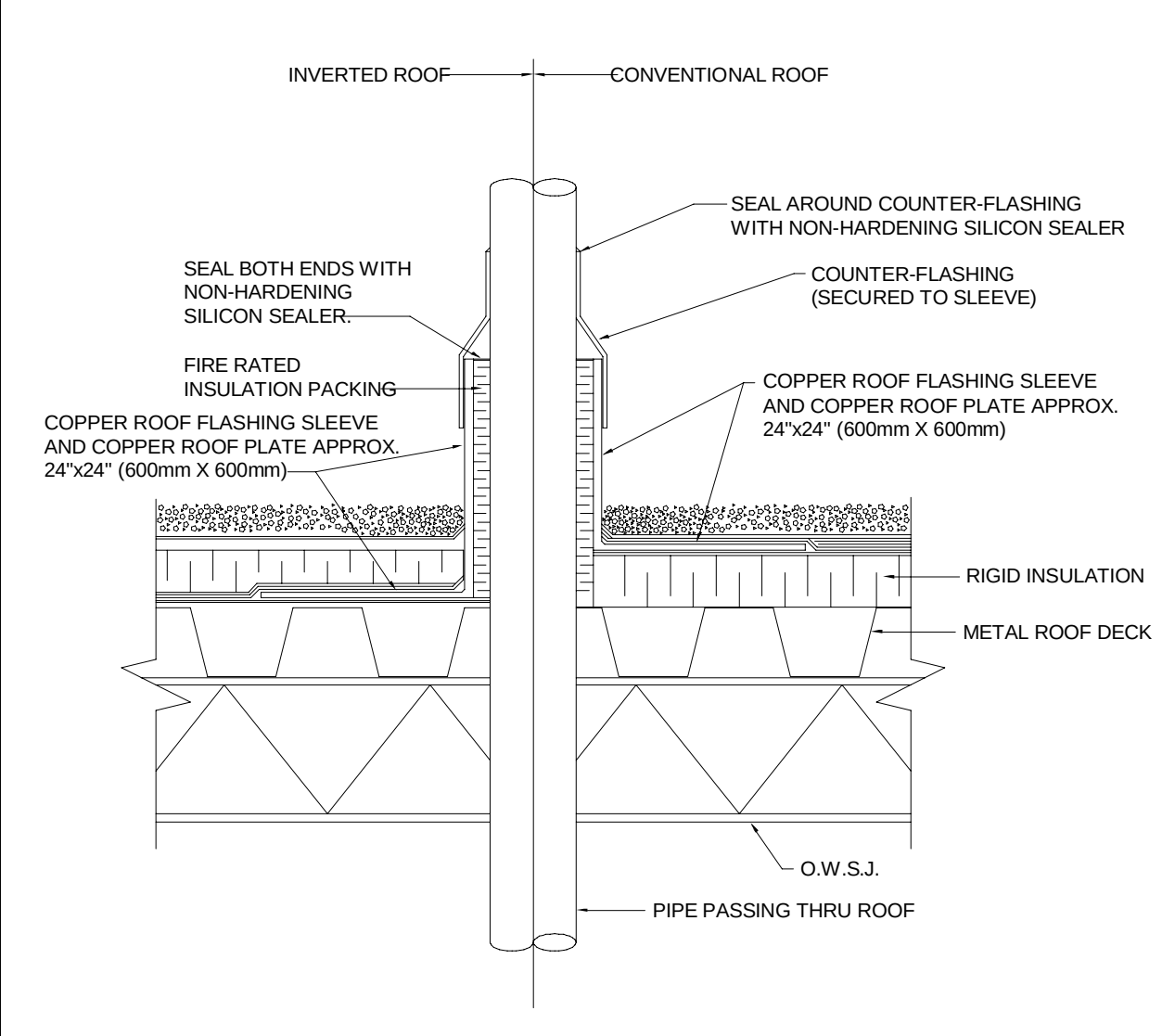
ROOF JACK DETAIL

N.T.S.



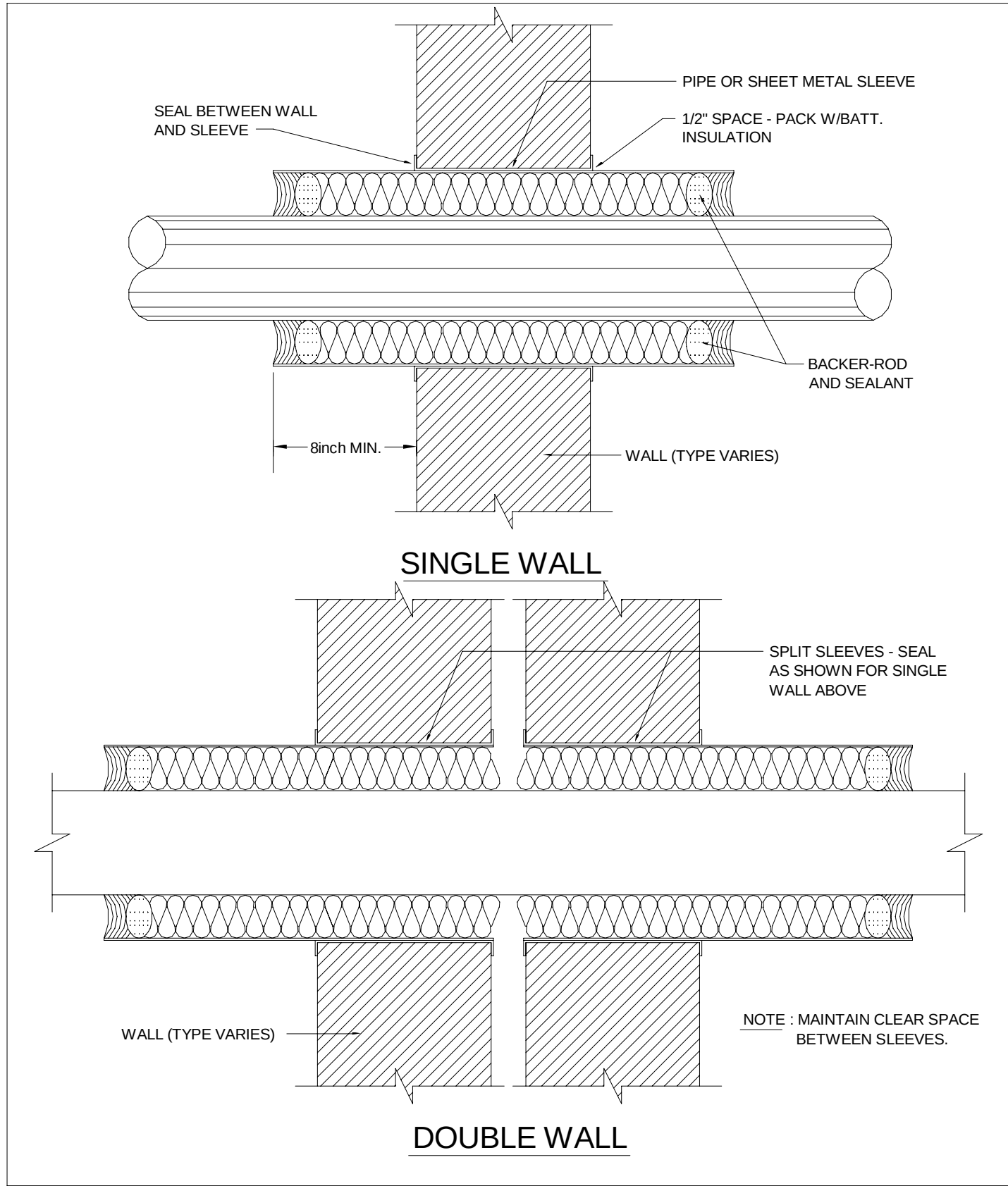
DETAIL OF DRAIN PAN TRAPS

N.T.S.

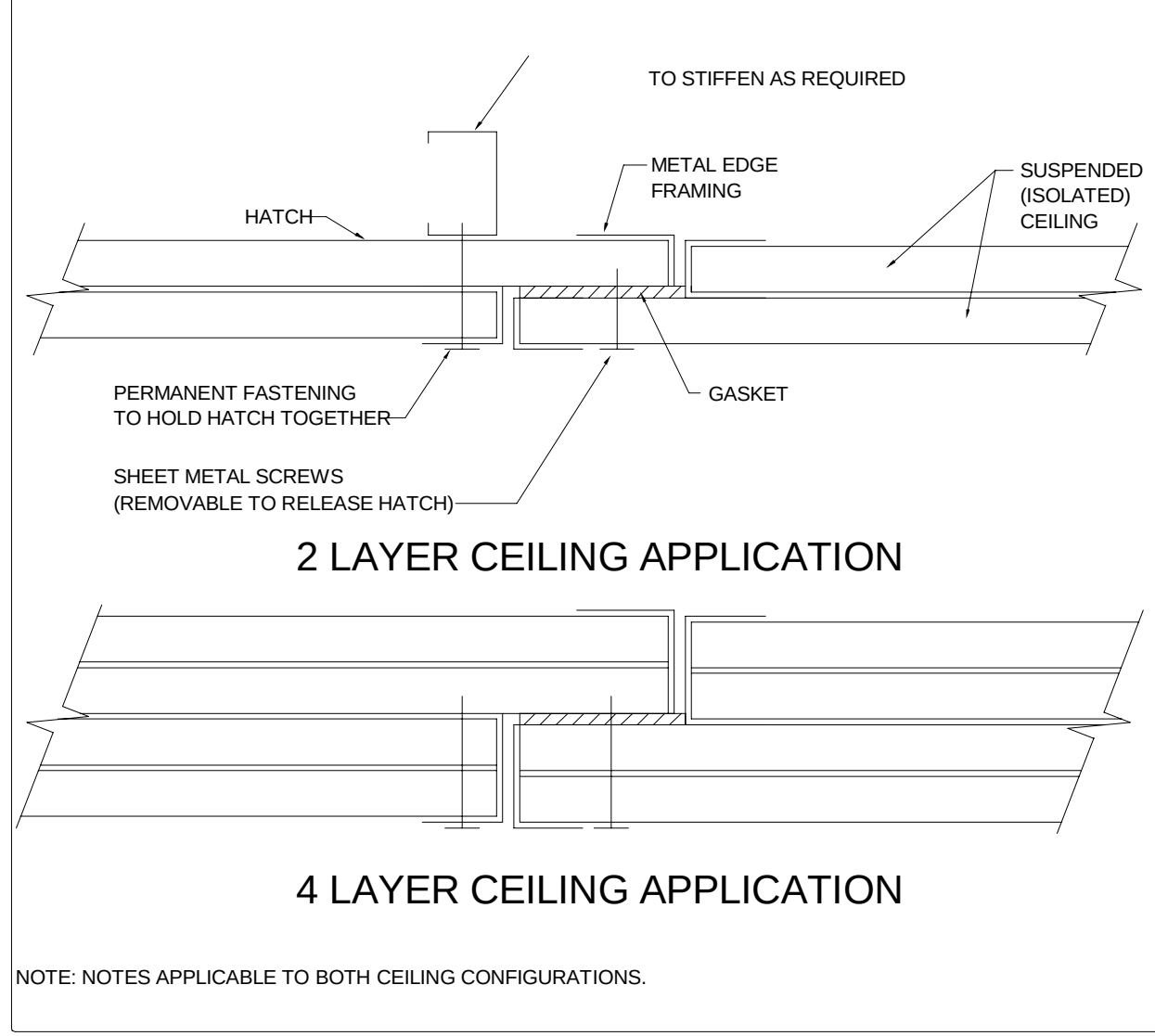


DETAIL OF PIPE SLEEVE THROUGH ROOF

N.T.S.

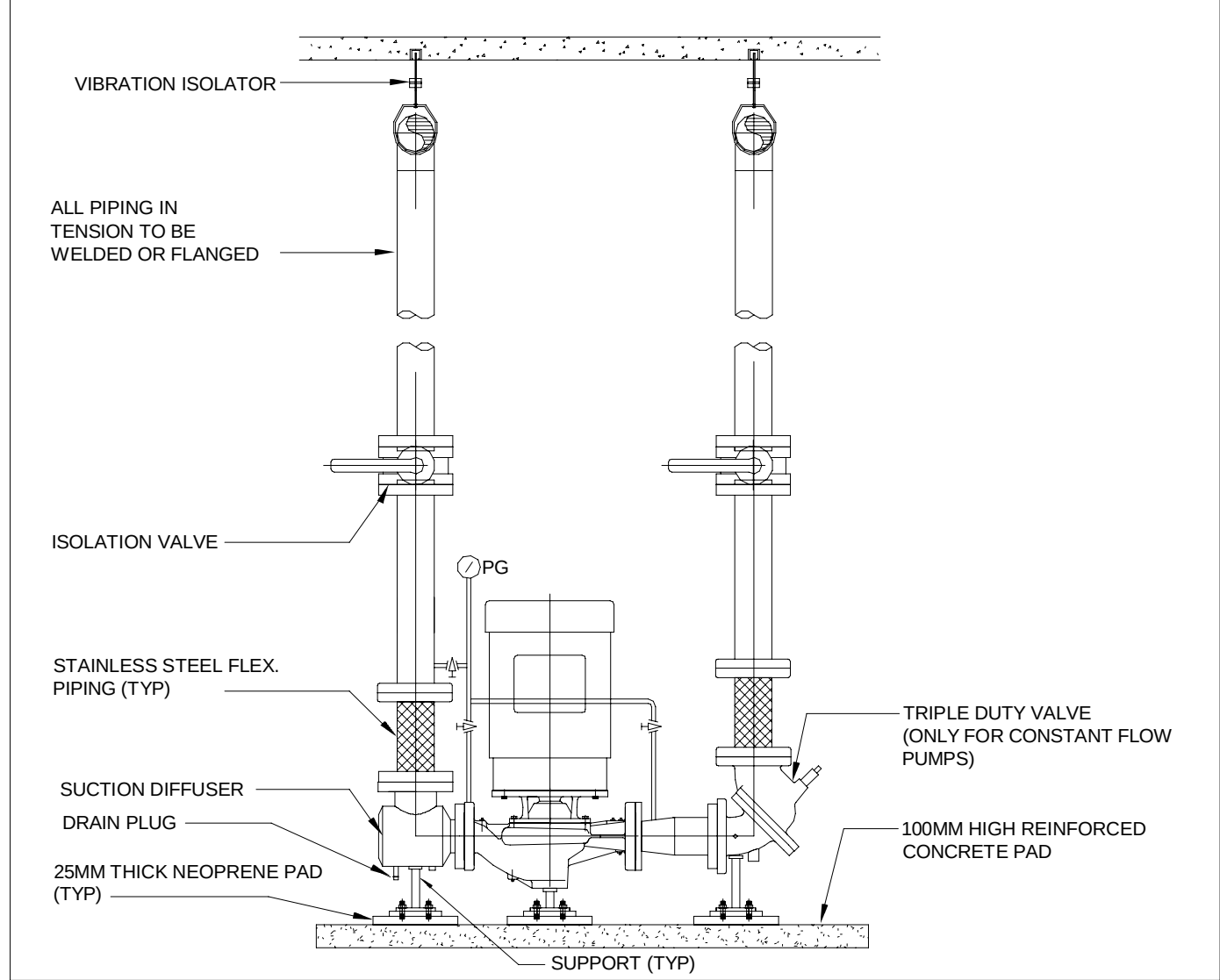


TYPICAL WALL PENETRATION SLEEVE AT
SOUND ISOLATION WALL



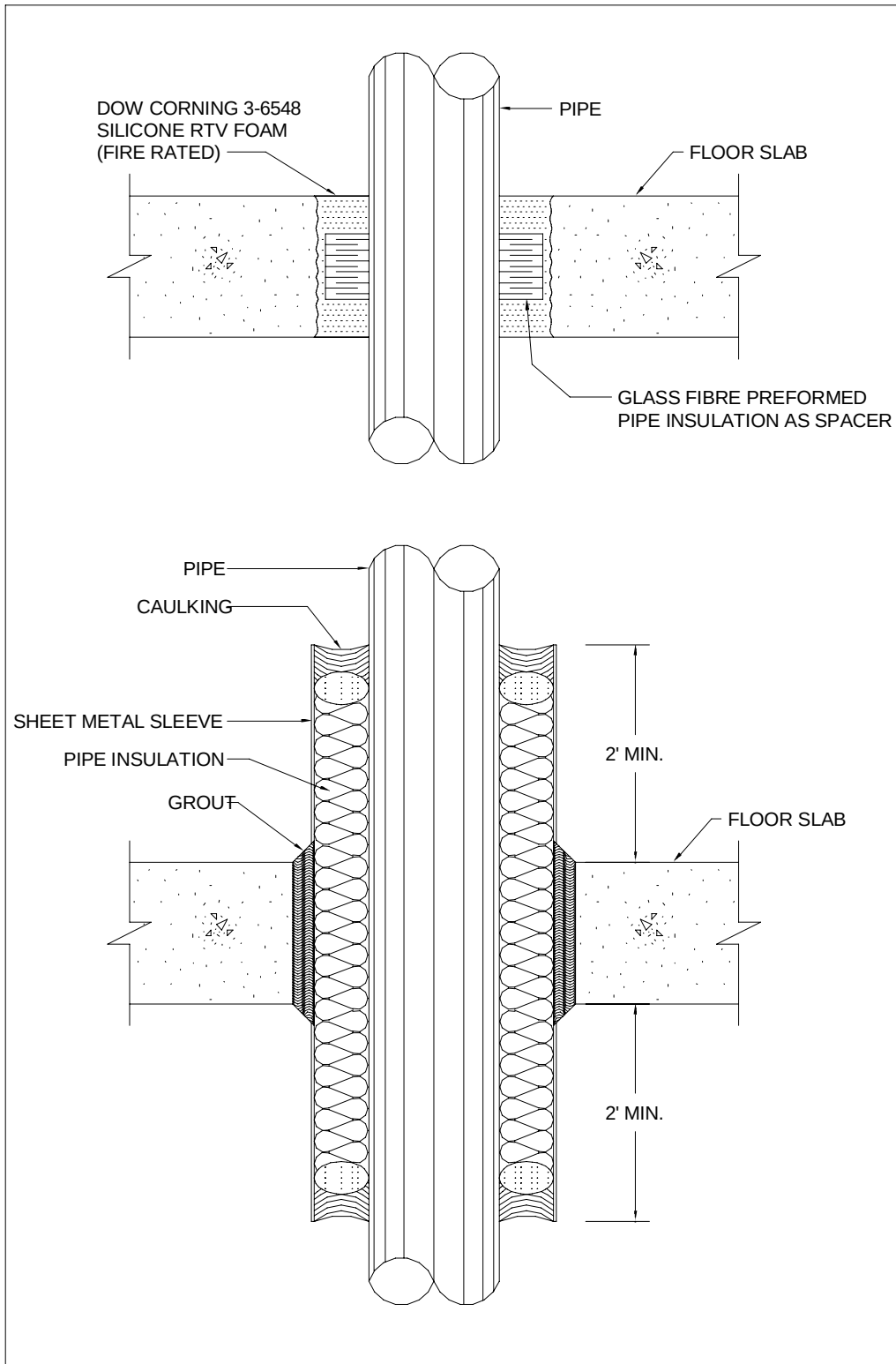
ACCESS HATCH DETAIL FOR DRYWALL CEILING OR
ACOUSTICAL ENCLOSURES

N.T.S.



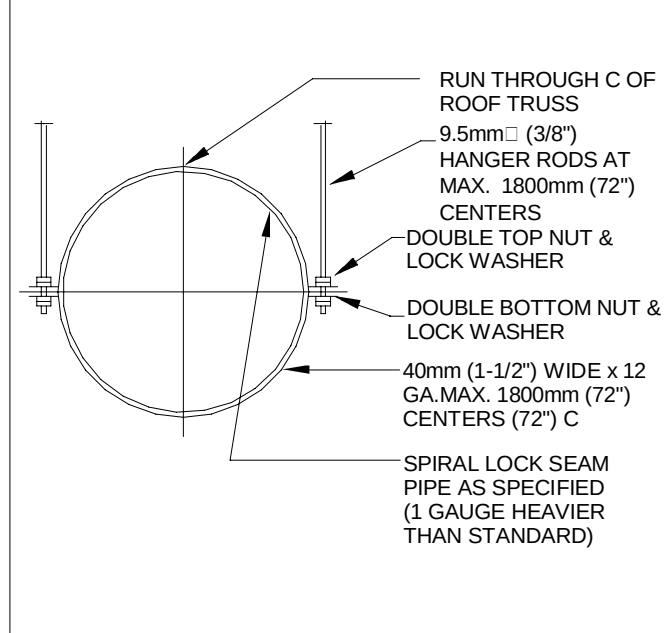
IN-LINE PUMP INSTALLATION

N.T.S.



DETAIL OF PIPE PENETRATION FOR
SOUND ISOLATION

N.T.S.



DETAIL OF GYM S/A DUCT

N.T.S.

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PROJECT:

Victoria Park Arena

20 Victoria Crescent, Brampton, ON L6T 1E4

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REV	DATE	DESCRIPTION
13	2024/11/08	ISSUED FOR CONSTRUCTION
12	2024/05/29	ISSUED FOR TENDER
11	2023/10/27	ISSUED FOR TENDER
10	2023/09/22	ISSUED FOR TENDER
9	2022/08/15	ISSUED FOR BUILDING PERMIT
8	2022/08/05	ISSUED FOR TENDER - FINAL
7	2022/04/13	ISSUED FOR TENDER
6	2022/03/25	ISSUED FOR BUILDING PERMIT
5	2022/03/02	ISSUED FOR TENDER REVIEW
4	2021/11/26	REISSUED FOR 90% REVIEW
3	2021/11/19	ISSUED FOR TENDER REVIEW
2	2021/09/27	ISSUED FOR PROGRESS REVIEW
1	2021/09/30	ISSUED FOR 60%DD

PROJECT NO.	DATE
209-00238-00	2024/11/08
ORIGINAL SCALE:	IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.
1:1	1"
DESIGNED BY:	DRAWN BY:
MK	SG/VO
CHECKED BY:	DISCIPLINE:
MK	

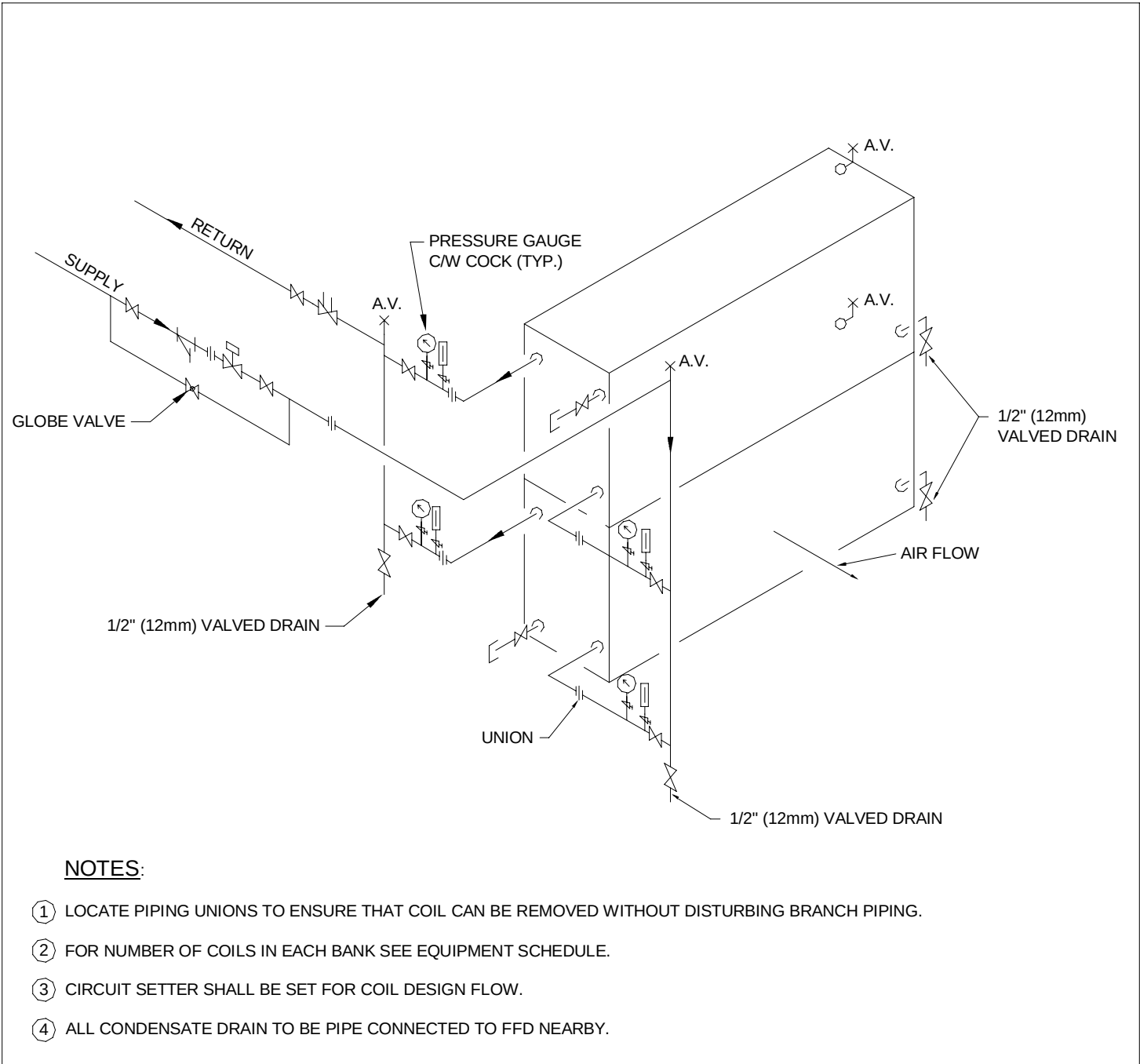
STANDARD DETAILS - MECHANICAL 2

SHEET NUMBER: M-801

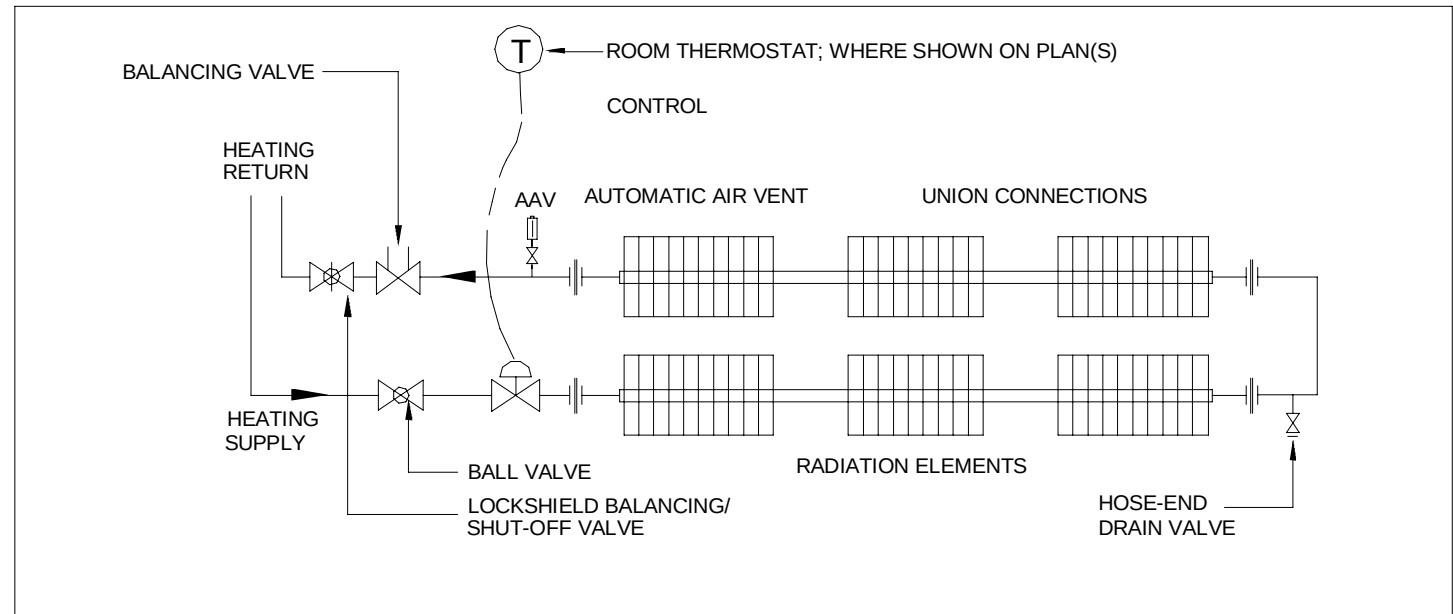
ISSUED FOR CONSTRUCTION

DATE OF: 2024/11/08

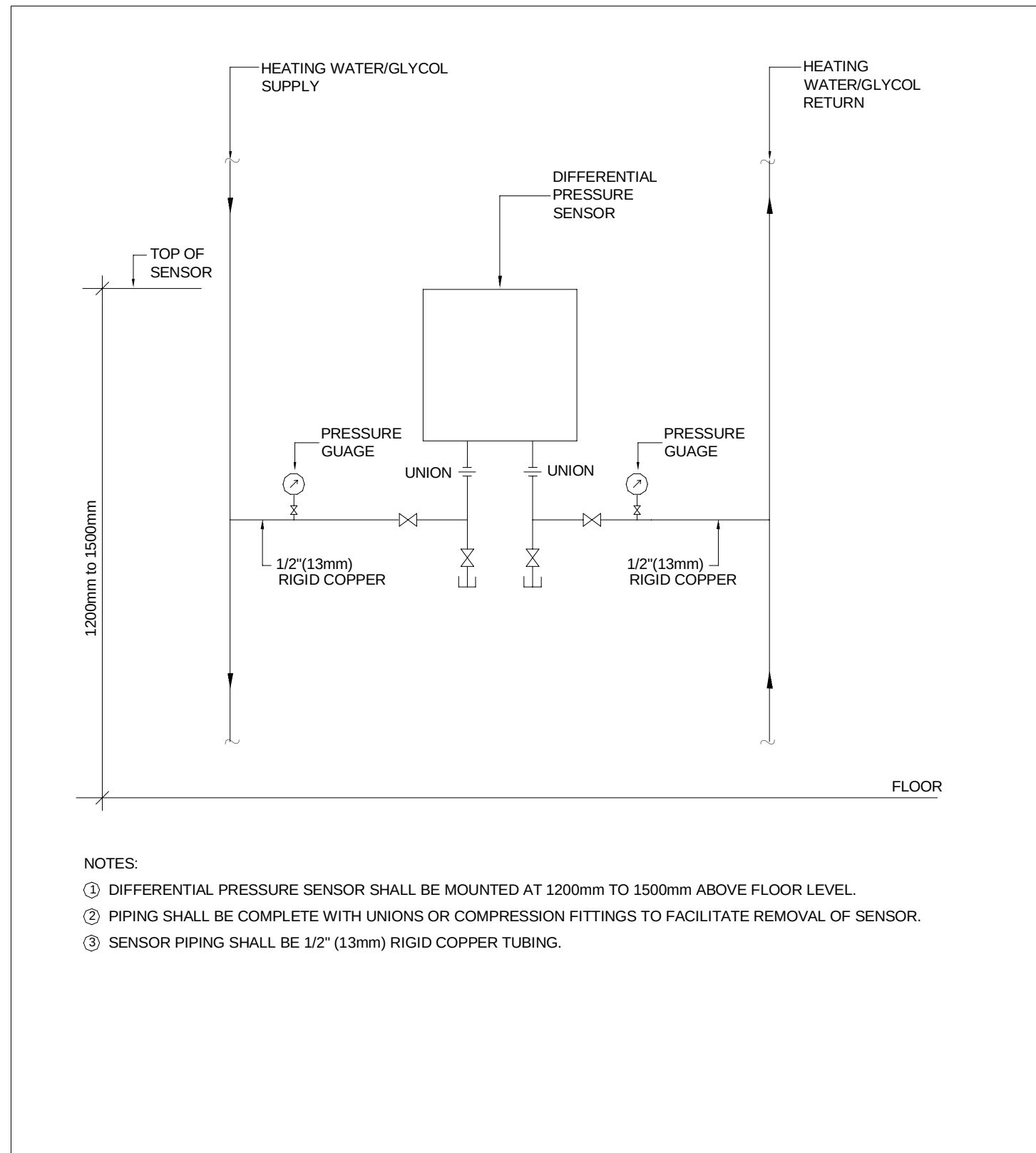
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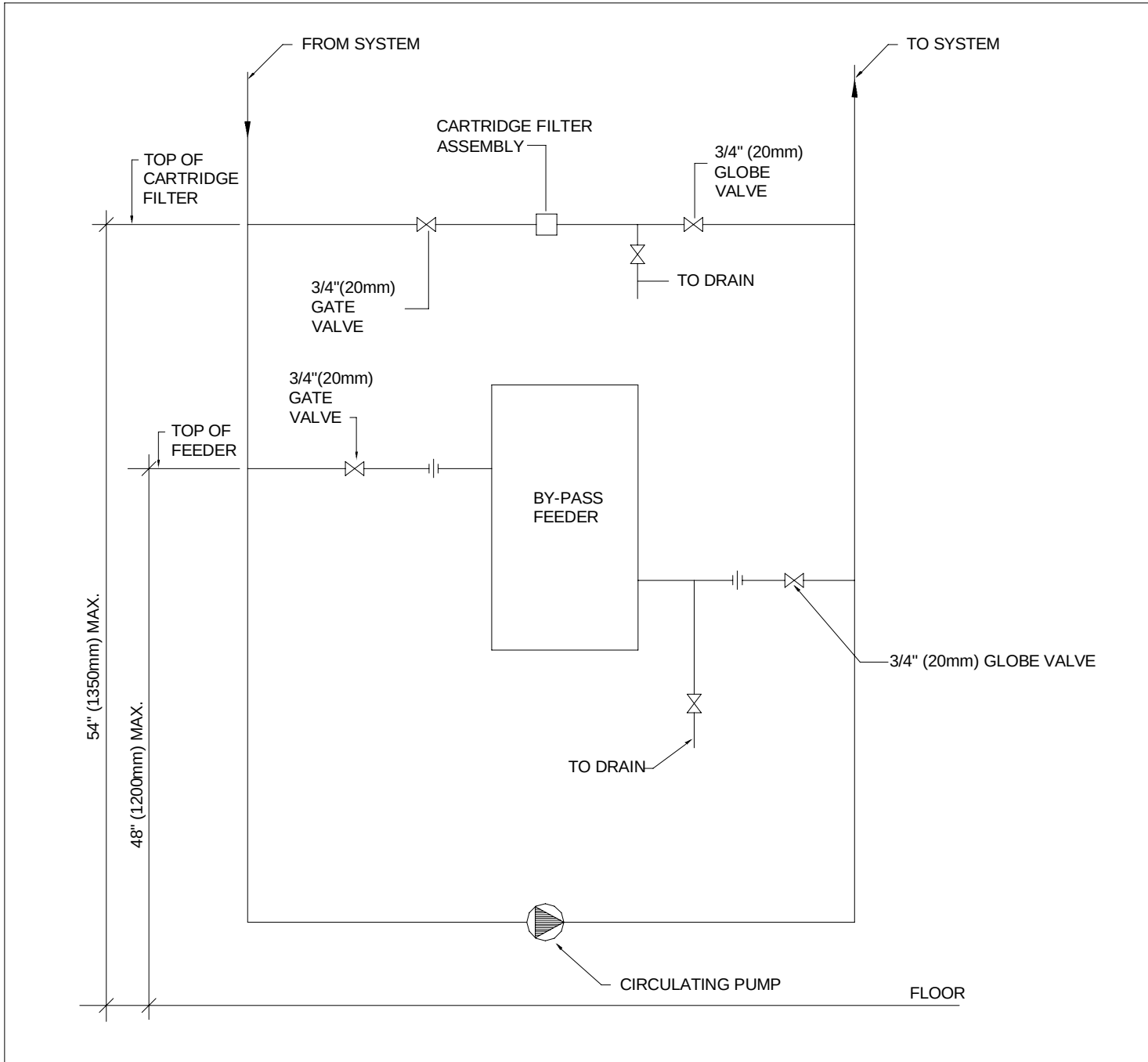
DETAIL OF HYDRONIC COIL PIPING CONNECTIONS
N.T.S.



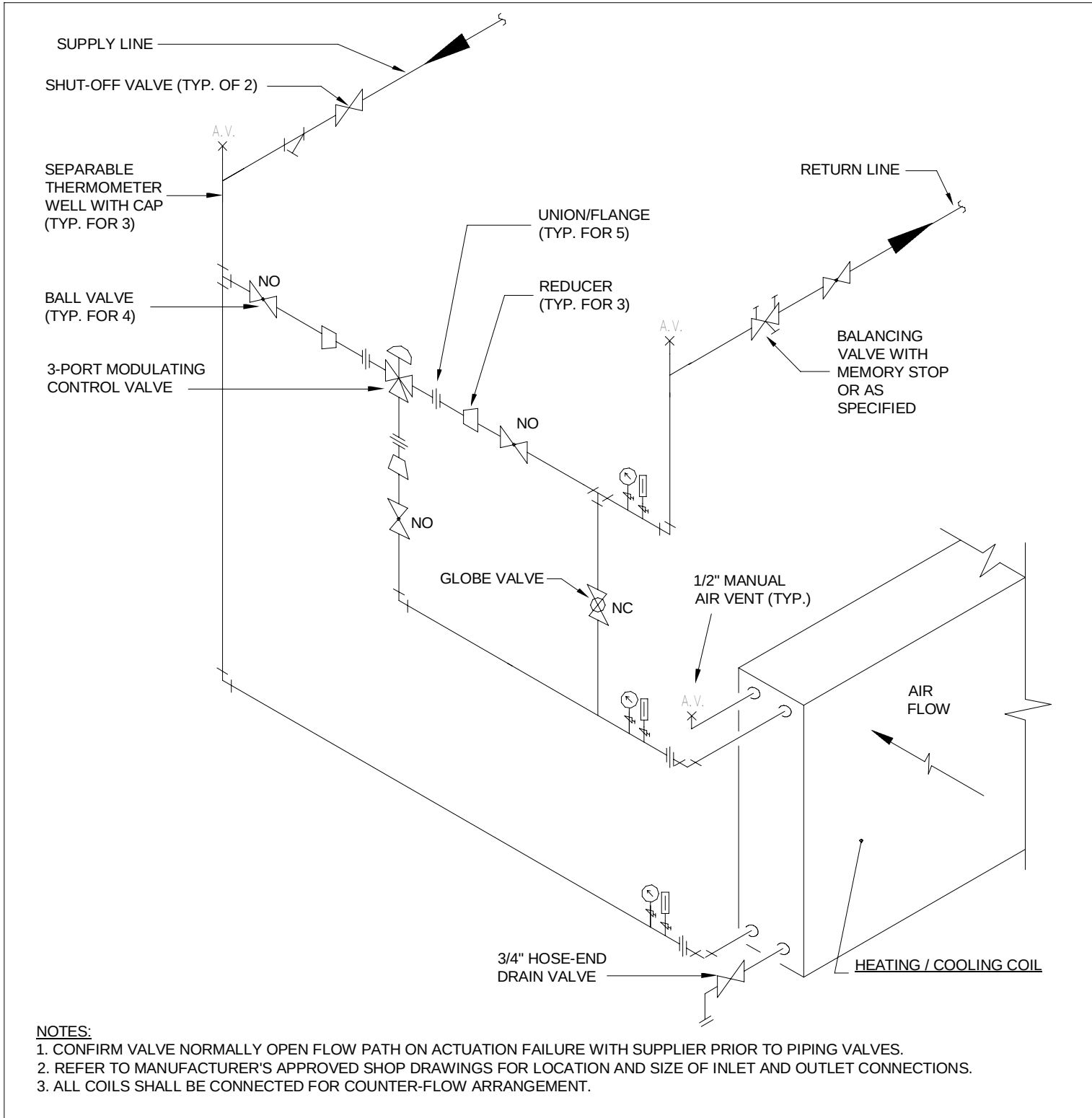
HEATING RADIATOR DETAIL
N.T.S.



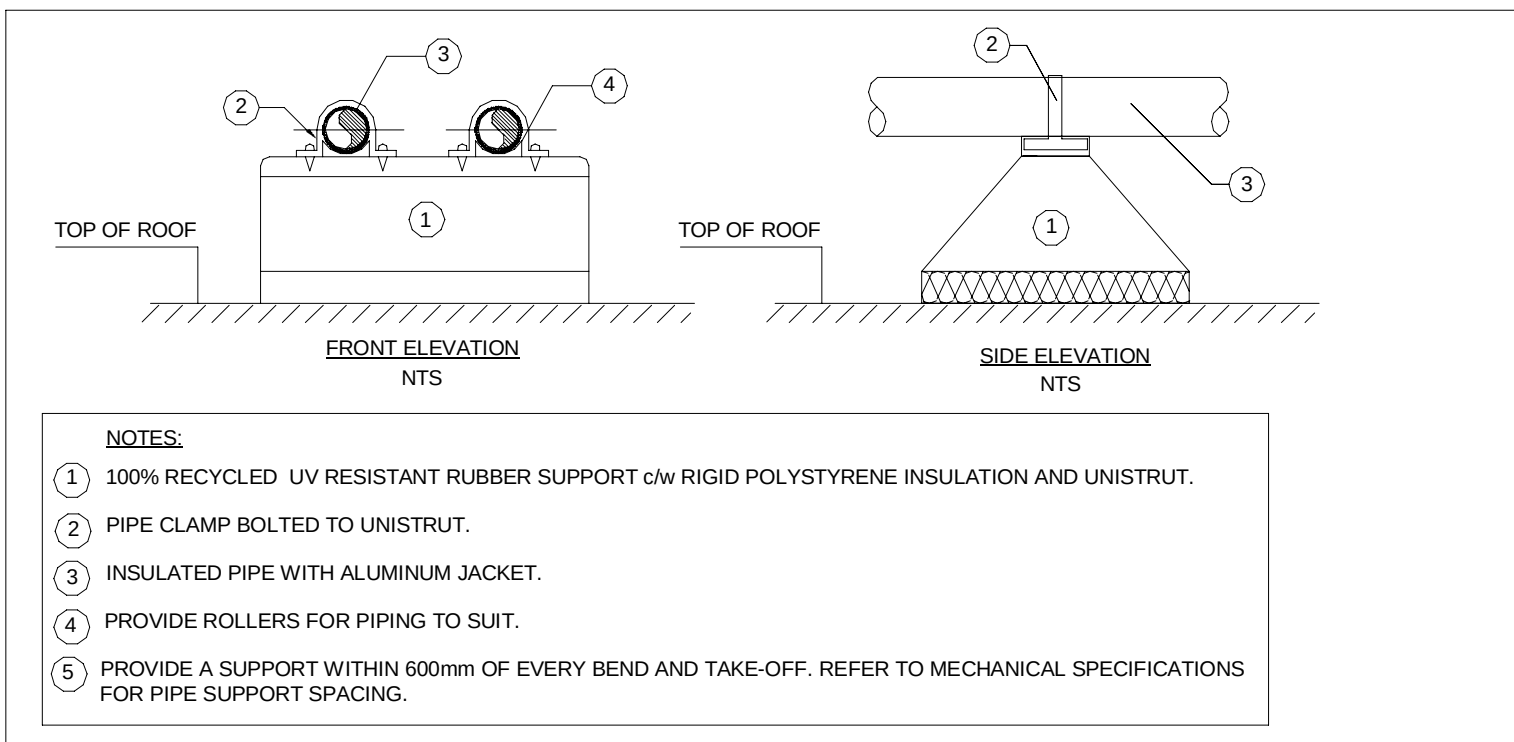
DIFFERENTIAL PRESSURE SENSOR STATION INSTALLATION
N.T.S.



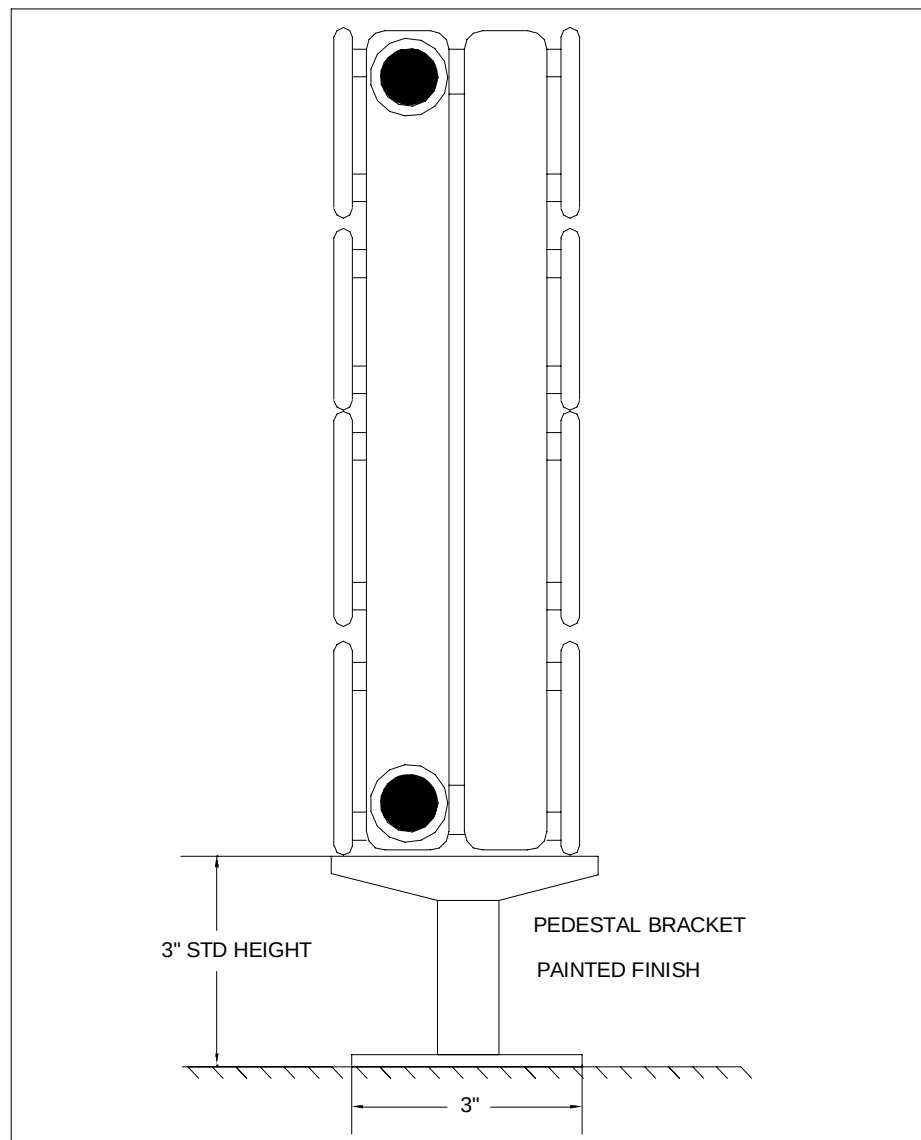
DETAIL OF BY-PASS FEEDER INSTALLATION
N.T.S.



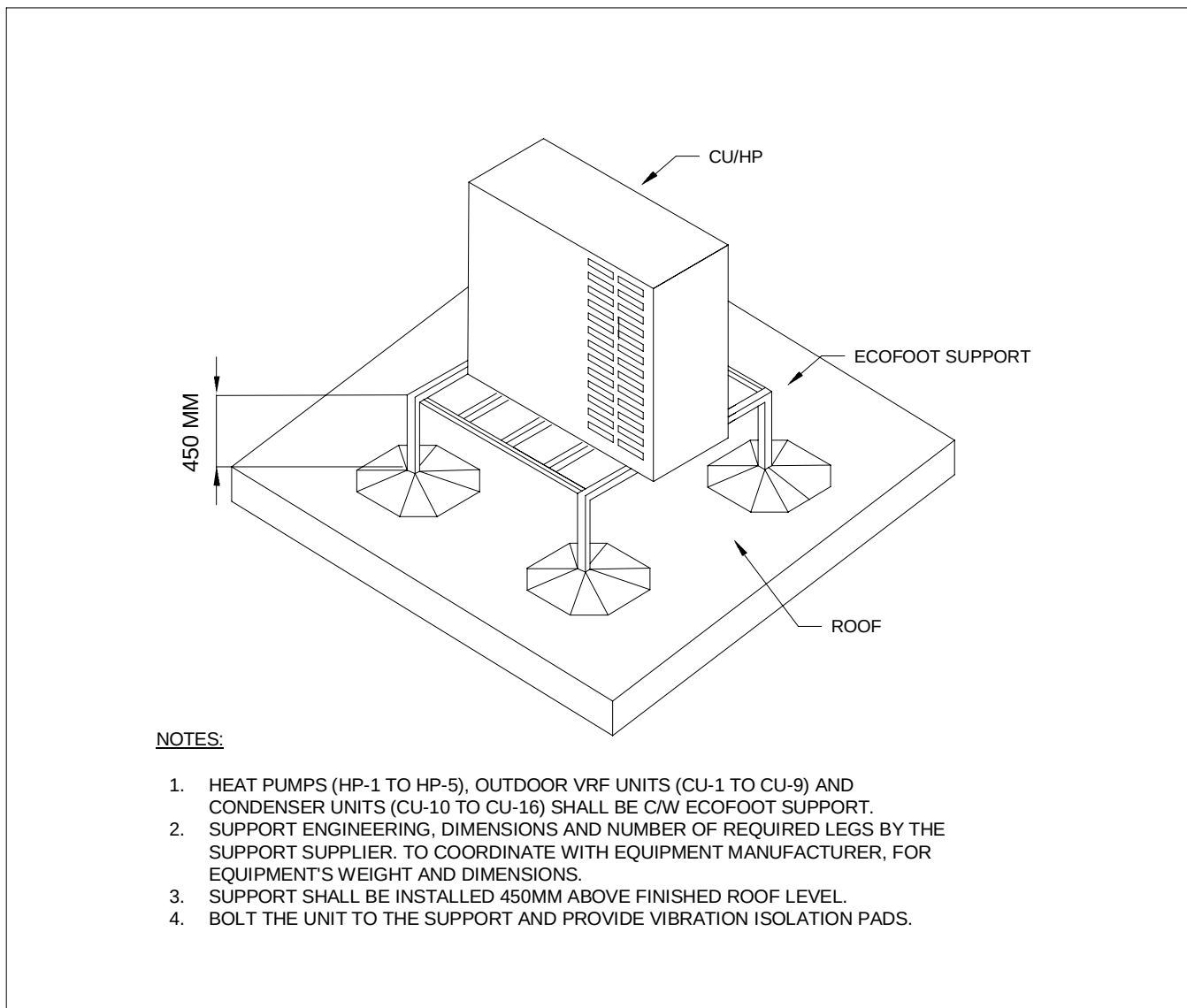
TYPICAL 3-WAY VALVE PIPING ARRANGEMENT
N.T.S.



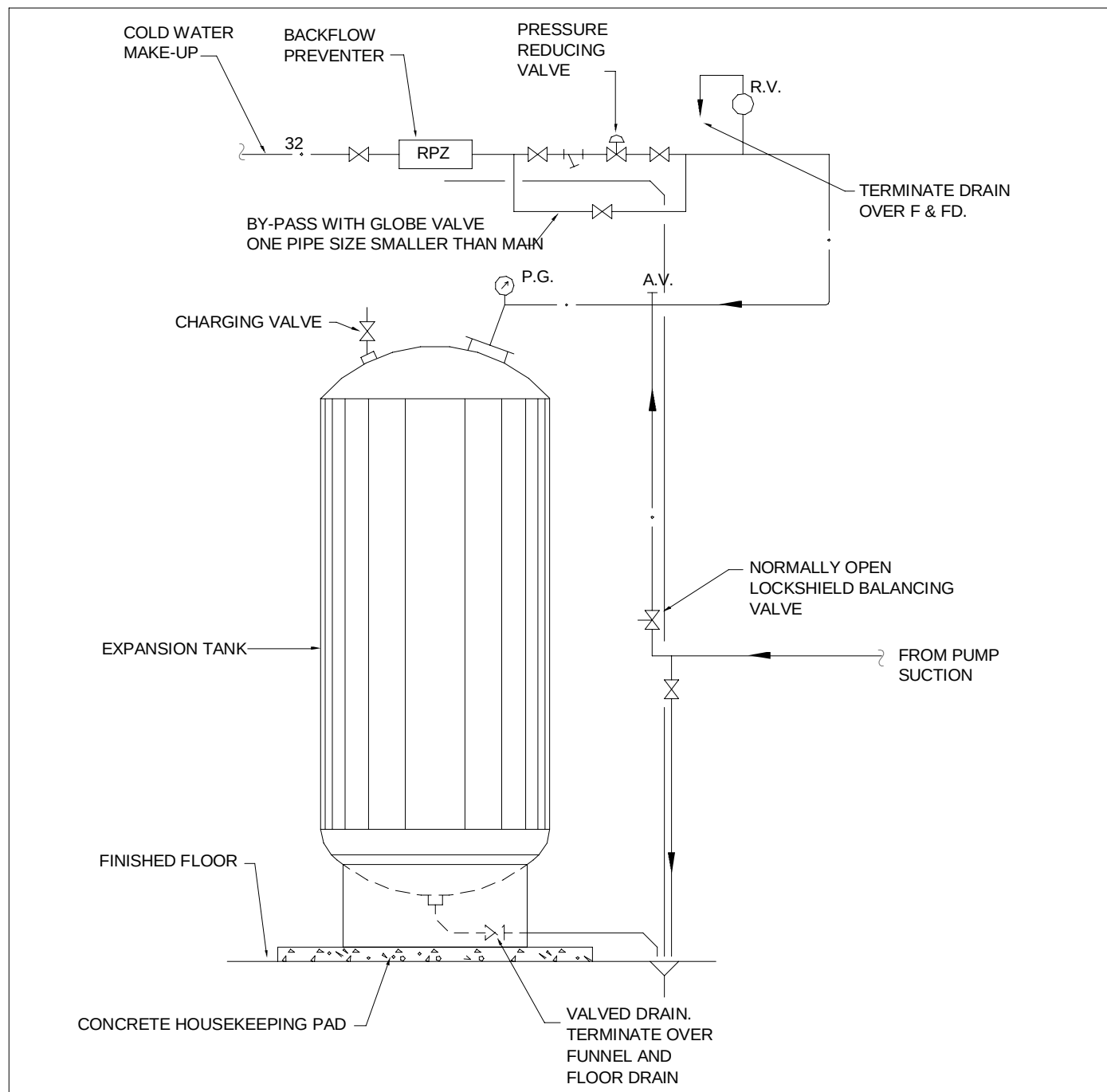
SUPPORT FOR INSULATED PIPE ON ROOF
N.T.S.



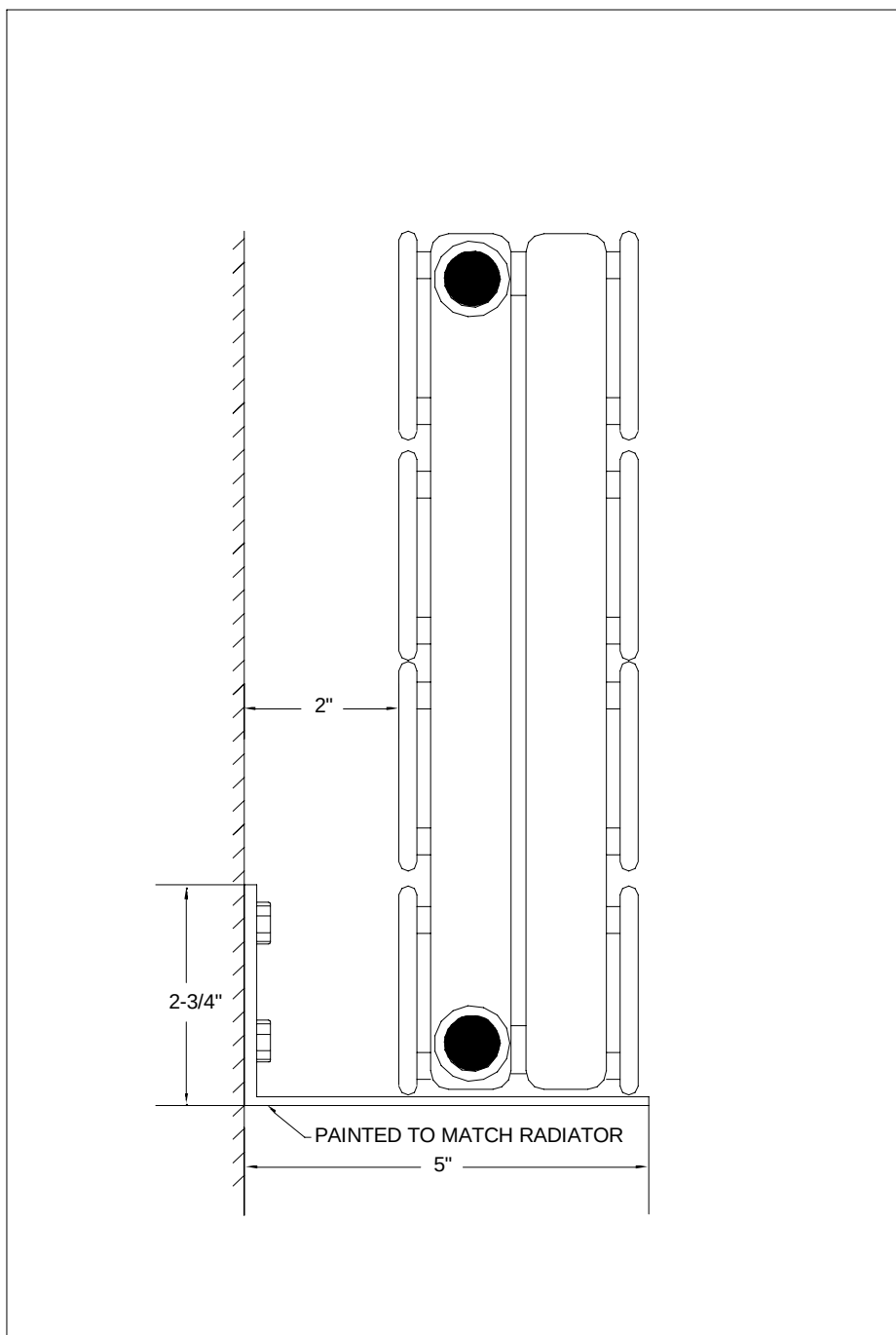
HEATING RADIATOR FLOOR STANDING
MOUNTING DETAIL
N.T.S.



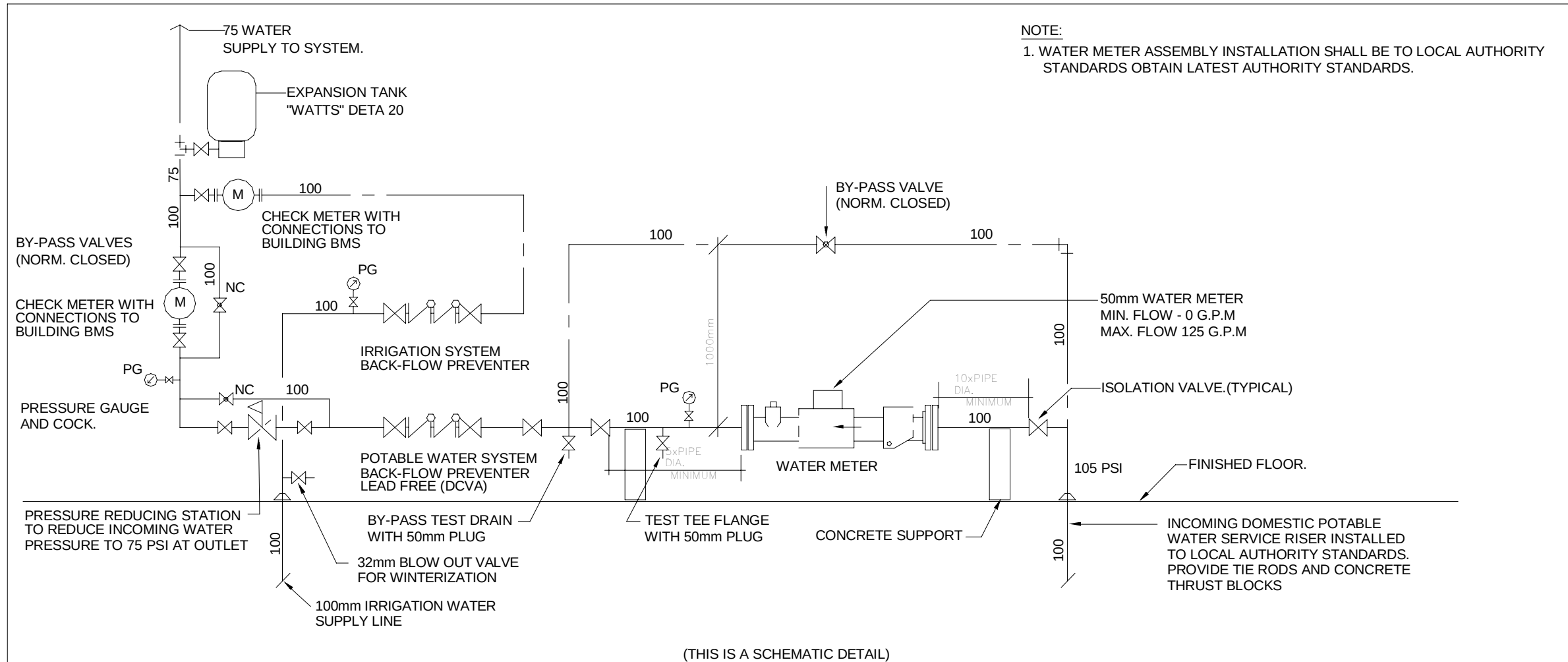
OUTDOOR HEAT PUMP AND CONDENSING UNIT
TYPICAL INSTALLATION DETAIL
N.T.S.



BLADDER & DIAPHRAGM EXPANSION TANK
(WATER/GLYCOL)
N.T.S.



HEATING RADIATOR WALL MOUNTED
MOUNTING DETAIL
N.T.S.



DETAIL OF WATER METER ASSEMBLY
N.T.S.

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Victoria Park Arena

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10	2023/09/22	ISSUED FOR TENDER
9	2022/08/15	ISSUED FOR BUILDING PERMIT
8	2022/08/05	ISSUED FOR TENDER - FINAL
7	2022/04/13	ISSUED FOR TENDER
6	2022/03/25	ISSUED FOR BUILDING PERMIT
5	2022/03/02	ISSUED FOR TENDER REVIEW
4	2021/11/26	REISSUED FOR 90% REVIEW
3	2021/11/19	ISSUED FOR TENDER REVIEW
2	2021/09/27	ISSUED FOR PROGRESS REVIEW
1	2021/08/30	ISSUED FOR 60%DD

PROJECT NO.	DATE
209-00238-00	2024/11/08
ORIGINAL SCALE:	DATE
1:1	IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.
DESIGNED BY:	DATE
MK	2024/11/08
DRAWN BY:	DATE
SG/VO	2024/11/08
CHECKED BY:	DATE
MK	2024/11/08

DISCIPLINE: MECHANICAL

TITLE: STANDARD DETAILS - MECHANICAL 3

SHEET NUMBER:	OF
M-802	1
ISSUE:	REV #
ISSUED FOR CONSTRUCTION	13
DATE OF:	DATE OF:
2024/11/08	2024/11/08

ARCHITECTURE 49

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CUEN



CITY OF BRAMPTON

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PROJECT

Victoria Park Arena

20 Victoria Crescent, Brampton, ON L6T 1E4

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14	2024/11/08	ISSUED FOR CONSTRUCTION
13	2024/05/29	ISSUED FOR TENDER
12	2023/10/27	ISSUED FOR TENDER
11	2023/09/22	ISSUED FOR TENDER
10	2022/08/15	ISSUED FOR BUILDING PERMIT
9	2022/08/05	ISSUED FOR TENDER - FINAL
8	2022/04/13	ISSUED FOR TENDER
7	2022/03/25	ISSUED FOR BUILDING PERMIT
6	2022/03/02	ISSUED FOR TENDER REVIEW
5	2021/11/26	REISSUED FOR 90% REVIEW
4	2021/11/19	ISSUED FOR TENDER REVIEW
3	2021/10/20	ISSUED FOR COORDINATION
2	2021/09/27	ISSUED FOR PROGRESS REVIEW
1	2021/08/30	ISSUED FOR 60%ADD

REV	DATE	DESCRIPTION
PROJECT NO: 209-00238-00		DATE: 2024/11/08
ORIGINAL SCALE: 1" = 50'		IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.
DESIGNED BY: MK		1"
DRAWN BY: SG/VO		
CHECKED BY: MK		

DISCIPLIN

TITLE

GENERAL DETAILS

SHEET NUMBER:

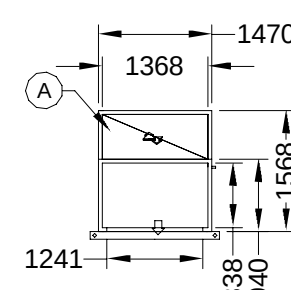
M-803

SHEET # 1

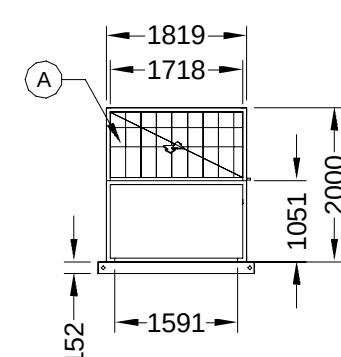
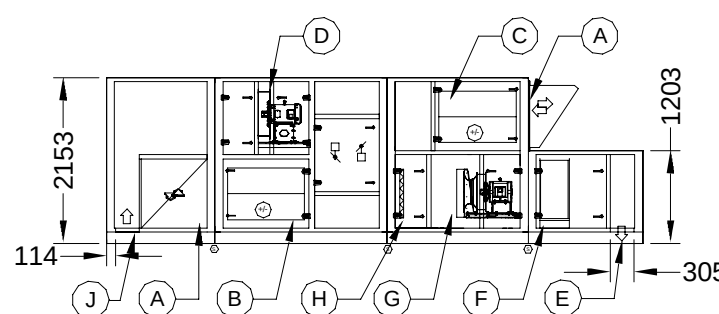
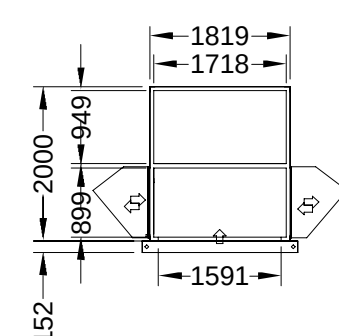
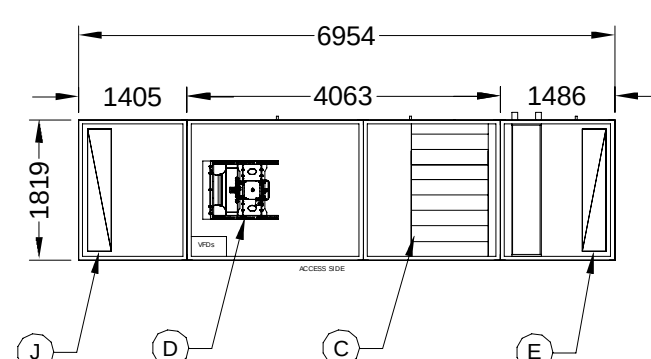
ISSUE:
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DATE OF: 2024/11/08

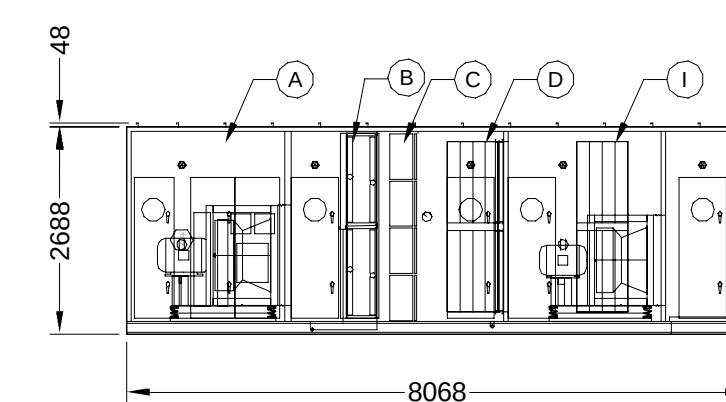
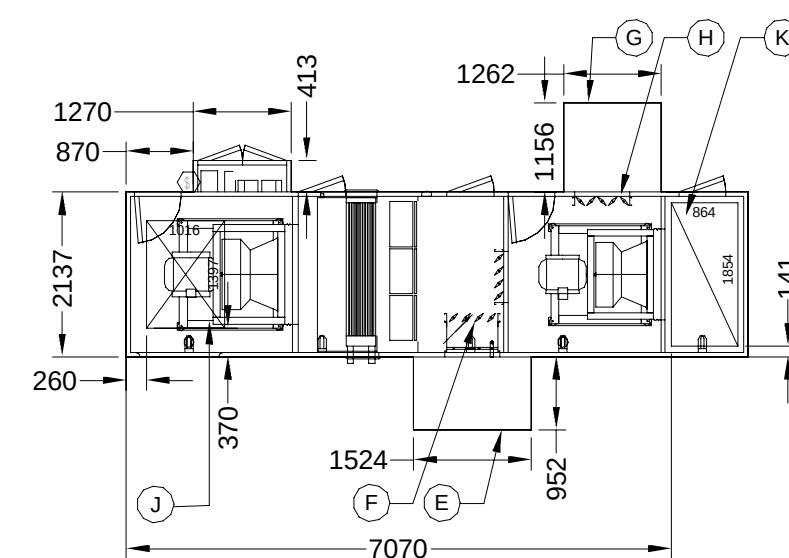
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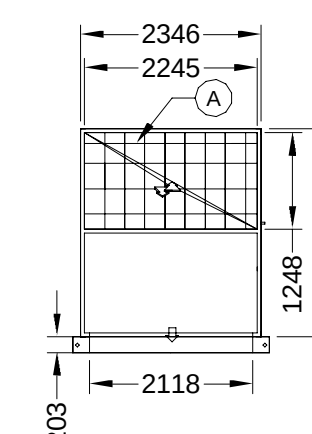
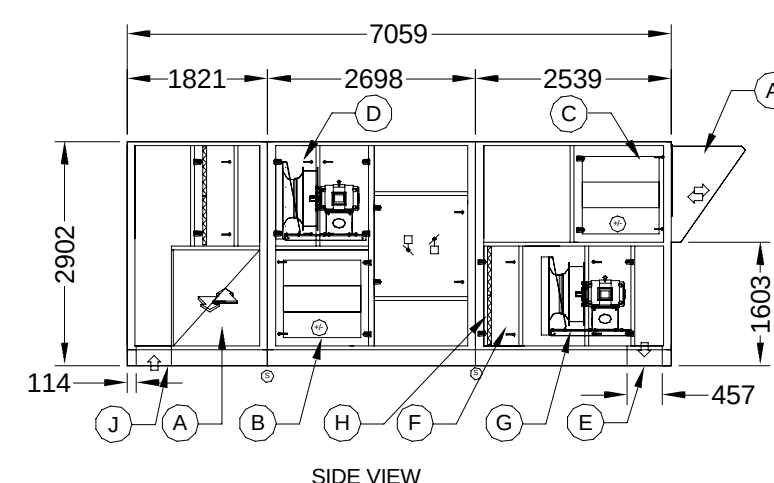
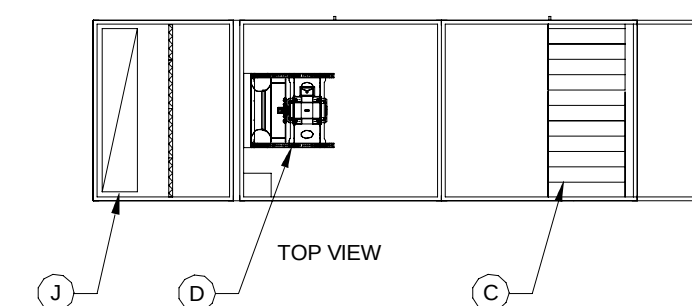
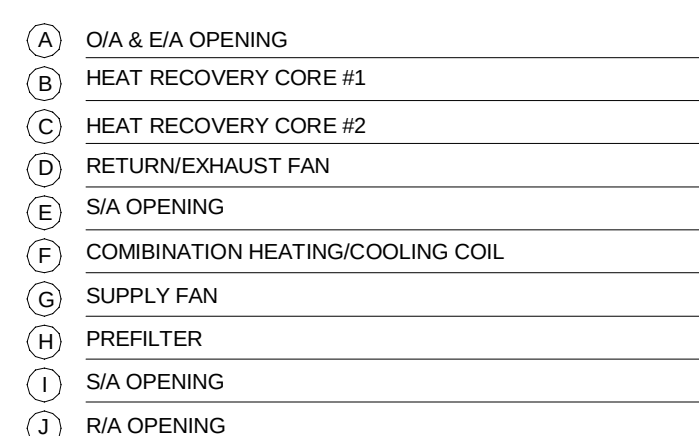
(A)	O/A & E/A OPENING
(B)	HEAT RECOVERY CORE #1
(C)	HEAT RECOVERY CORE #2
(D)	RETURN/EXHAUST FAN
(E)	S/A OPENING
(F)	COMBINATION HEATING/COOLING COIL
(G)	SUPPLY FAN
(H)	PREFILTER
(I)	S/A OPENING
(J)	R/A OPENING



(A)	SUPPLY FAN
(B)	COOLING COIL
(C)	FILTERS
(D)	R/A DAMPER
(E)	O/A HOOD
(F)	O/A DAMPER
(G)	E/A HOOD
(H)	E/A DAMPER
(I)	RETURN FAN
(J)	S/A OPENING
(K)	R/A OPENING



2 AHU-2 DETAILS
M305 SCALE N.T.S



4 ERV-1 DETAILS
M305 SCALE N.T.S

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PROJECT

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2	2021/09/27	ISSUED FOR PROGRESS REVIEW
1	2021/08/30	ISSUED FOR 60%RD

REV	DATE	DESCRIPTION
PROJECT NO: 209-00238-00		DATE: 2024/11/08
ORIGINAL SCALE: 1 : 100		IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE. 1"
DESIGNED BY: MK		
DRAWN BY: SCVO		
CHECKED BY: MK		
DISCIPLINE:		
TITLE:		
AHU & ERV DETAILS		
SHEET NUMBER:		
M-804 OF		
ISSUE: ISSUED FOR CONSTRUCTION		REV #
DATE OF: 2024/11/08		13

SCHEDULE OF AIR HANDLING UNITS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
SYSTEM	MANUFACTURER	UNIT MODEL NO.	UNIT WEIGHT (KG)	AIRFLOW (L/s)	DUAL CORE ENERGY RECOVERY										COOLINGHEATING COIL														SUPPLY FAN						EXHAUST/RETURN FAN						Vl0/Hz	REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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					ENTERING AIR TEMP				LEAVING AIR TEMP		TOTAL HEAT RECOVERY	TOTAL EFFICIENCY	ENTERING AIR TEMP				LEAVING AIR TEMP		TOTAL HEAT RECOVERY	TOTAL EFFICIENCY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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ARCHITECTURE 49

CONSULTANT - SUB CONSULTANT



SEAL

CLIENT



CLIENT REF. #:

PROJECT

Victoria Park Arena

20 Victoria Crescent, Brampton, ON L6T 1E4

KEY PLAN

DISCLAIMER:

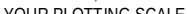
DISCLAIMER: COPYRIGHT

THIS DRAWING AND DESIGN IS COPYRIGHT PROTECTED WHICH SHALL NOT BE USED, REPRODUCED OR REVISED WITHOUT WRITTEN PERMISSION BY ARCHITECTURE 49. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND UTILITY LOCATIONS AND REPORT ALL ERRORS AND OMISSIONS PRIOR TO COMMENCING WORK.

THIS DRAWING IS NOT TO BE SCALED.

ISSUED FOR - REVISION

7	2024/11/08	ISSUED FOR CONSTRUCTION
6	2024/05/29	ISSUED FOR TENDER
5	2023/10/27	ISSUED FOR TENDER
4	2023/09/22	ISSUED FOR TENDER
3	2022/08/15	ISSUED FOR BUILDING PERMIT
2	2022/08/05	ISSUED FOR TENDER - FINAL
1	2022/04/13	ISSUED FOR TENDER

REV	DATE	DESCRIPTION
PROJECT NO: 209-00238-00		DATE: 2024/11/08
ORIGINAL SCALE:		IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE. 
DESIGNED BY: MK		1"
DRAWN BY: SG/VO		
CHECKED BY: MK		

TITLE:

MECHANICAL EQUIPMENT SCHEDULES #4

SHEET NUMBER: _____

SHEET #: _____ OF _____
ISSUE: _____
ISSUED FOR CONSTRUCTION

7

BIM 360/1209-00238-00 - Victoria Park Arena - R20