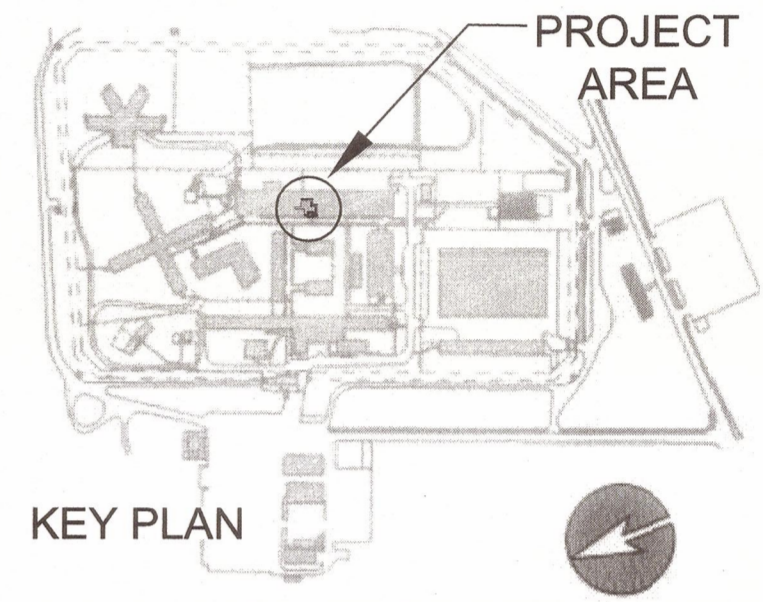




CHERNOFF THOMPSON ARCHITECTS



2	ISSUED FOR TENDER	2019.10.28
1	ISSUED FOR 99% REVIEW	2018.10.17
-	FOR INFORMATION	-
Revision/	Description/Description	Date/Date
Client/client		

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
MATSQUI INSTITUTION ABBOTSFORD, BC

M4 (KITCHEN/DINING) - DOMESTIC HOT WATER TANK REPLACEMENT

Consultant Signature Box Only

Designed by/Concept par
P. Street

Drawn by/Dessiné par
P. Street

PWSC Project Manager/Administrateur de Projets TPSGC
Jimmy Ng

PWSC Regional Manager, Architectural and Engineering Services/
Gestionnaire régionale, Services d'architecture et de génie, TPSGC
Preetpal Paul

Drawing title/Titre du dessin

SECOND FLOOR PARTIAL PLAN

DEMOLITION & NEW

Project No./No. du projet R.082467.001	Sheet/Fauille A-101 OF -	Revision no./ La Révision no. 2
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NO.	DOOR					FRAME			FIRE RATING		REMARKS	HARDWARE SET #	LOCATION
	DOOR W	OPENING H	TYPE	MATERIAL	FINISH	GLASS TYPE	TYPE	MATERIAL	FINISH	HOUR			
208A-1	915	2134	A	HM	C	-	PS	HM	PT	1HR	-	A	NEW MECH. ROOM
208A-2	915	2134	A	HM	PT	-	PS	HM	PT	1HR	-	A	NEW MECH. ROOM

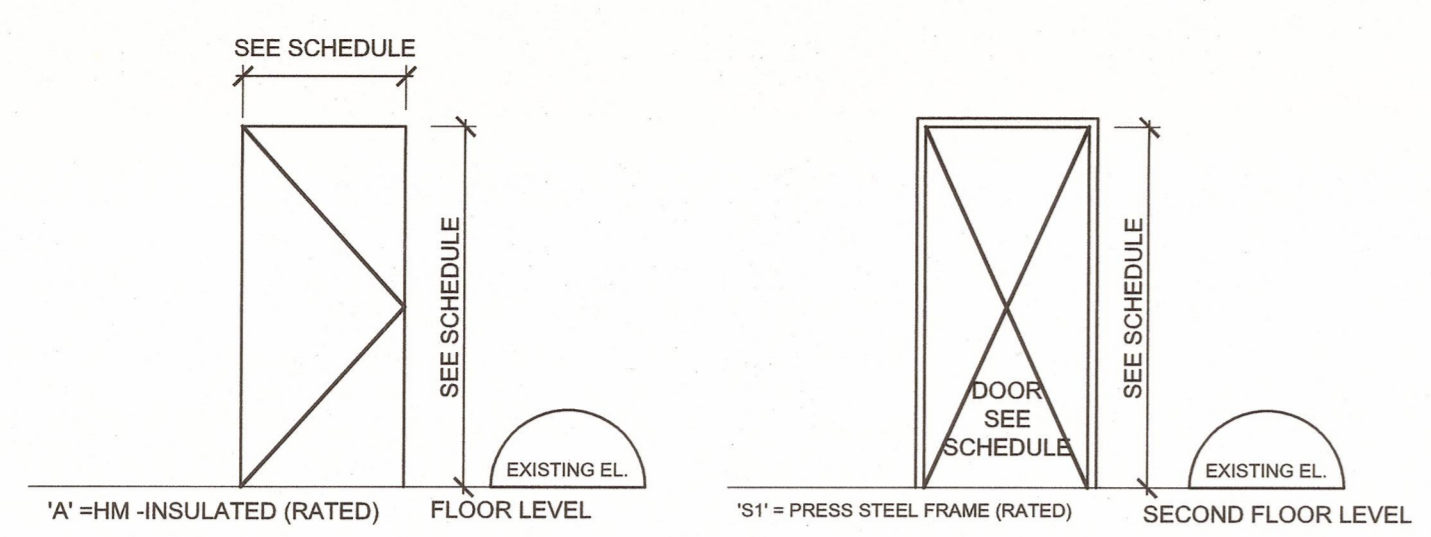
LEGEND
HM HOLLOW METAL - INSULATED (1HR. FIRE RATED)
PS PRESS STEEL FRAME (1HR RATED) PAINT
PT PAINT

DOOR HARDWARE SET A:
1. STAINLESS STEEL KICKPLATES BOTH SIDES OF DOORS, 305mm HIGH FULL DOOR WIDTH.
2. OVERHEAD DOOR CLOSER (STANDARD ARM) - SITE VERIFY RECORD CONDITIONS W.R.T. CLOSERS SPECIFIED WILL WORK
3. 3xS.S. BUTT HINGES (NRP)
4. KNOB HANDLE MORTICE DOOR LOCK
5. DROP DOOR SEAL
6. SMOKE DOOR SEALS

ROOM NUMBER	ROOM NAME	WALL				BASE	FLOOR	CEILING	COMMENTS
		NORTH	EAST	SOUTH	WEST				
208	EXISTING MECH. RM.	X	X	X	X	150 H FRP	MMA	X-STRUCT.	NOTE # 2
208A	NEW MECH. RM.	GWB-PT	GWB-PT	GWB-PT	CB-PT	MMA COVE BASE	MMA	X-STRUCT.	NOTE # 1, 2 & 3

LEGEND:
GWB GYPSUM WALLBOARD - TYPE 'X', IMPACT RESISTANT & WATER RESISTANT
X EXISTING WALL FINISH
PT PAINT
CB CONCRETE MASONRY UNIT (EXISTING)
X-STR. STRUCT EXISTING STRUCTURE

GENERAL NOTES:
1. GLOSS LEVEL 5 PAINT FINISH (BOTH SIDES OF NEW WALL)
2. EXISTING FLOOR PATCH, LEVEL & MAKE GOOD FOR NEW FLOOR FINISH
3. MECH. ROOM W/ROLL UP CURB 150mm HIGH - MMA COVE BASE



3 DOOR TYPES
A-101 1:50

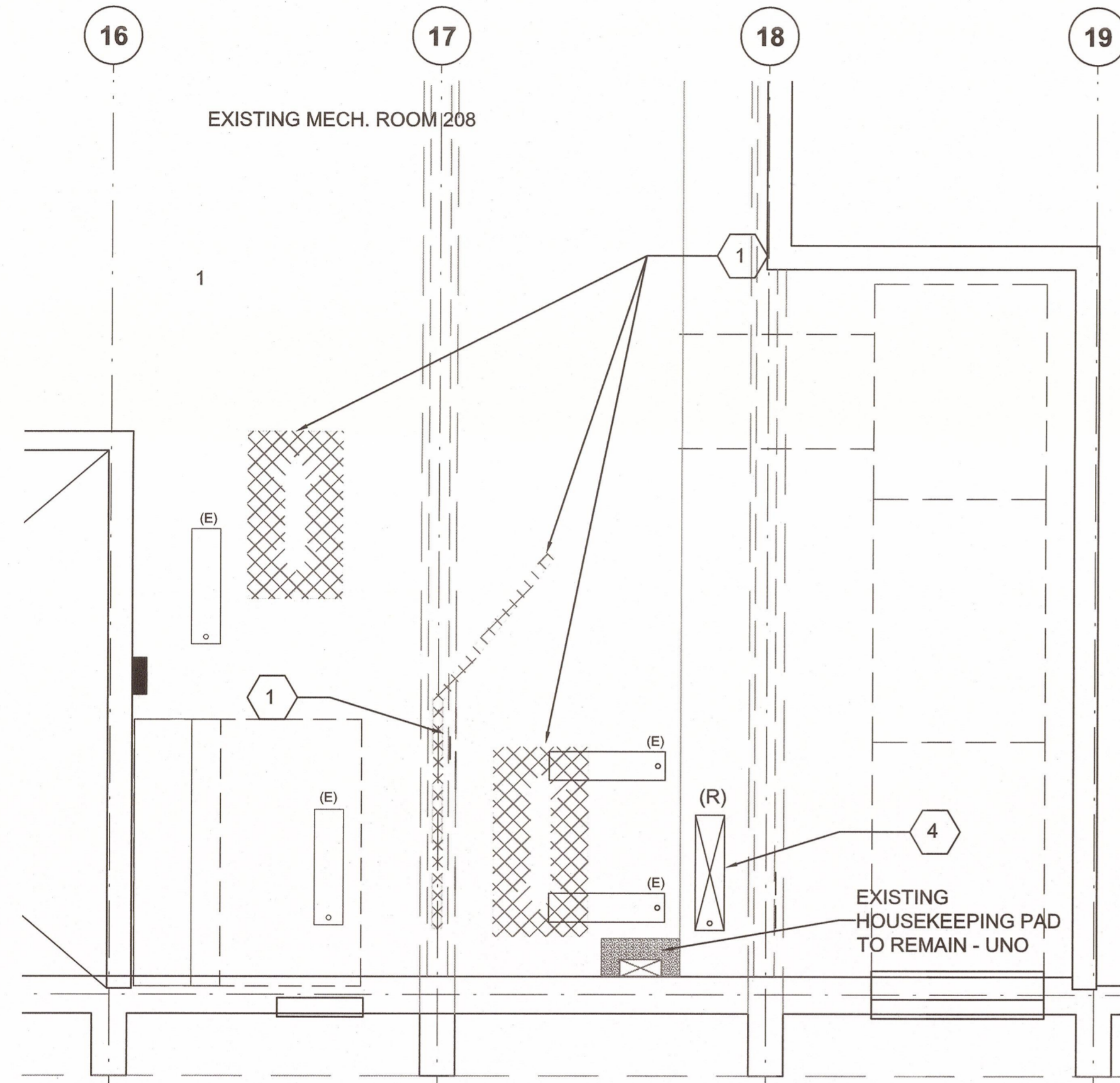
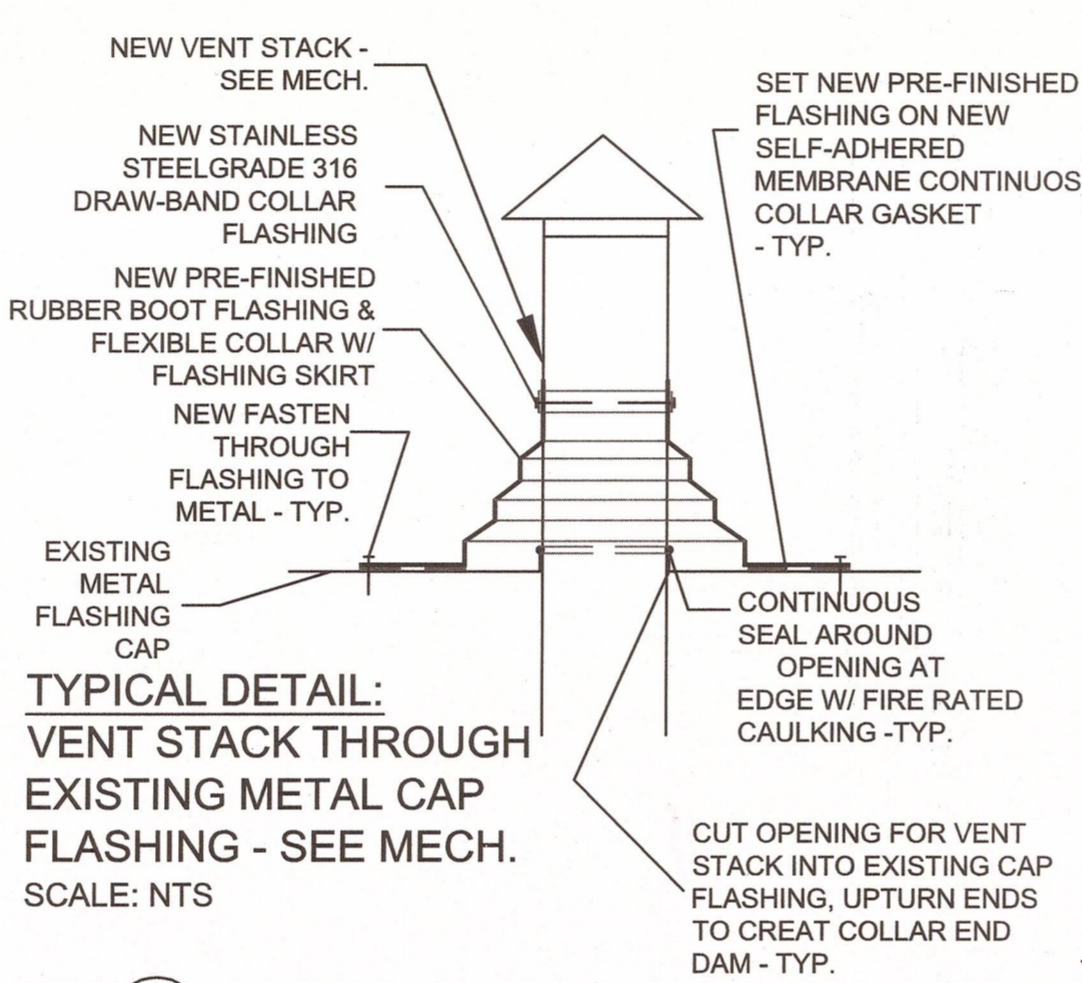
4 FRAMES TYPES
A-101 1:50

5 DOOR SCHEDULE
A-101 NTS

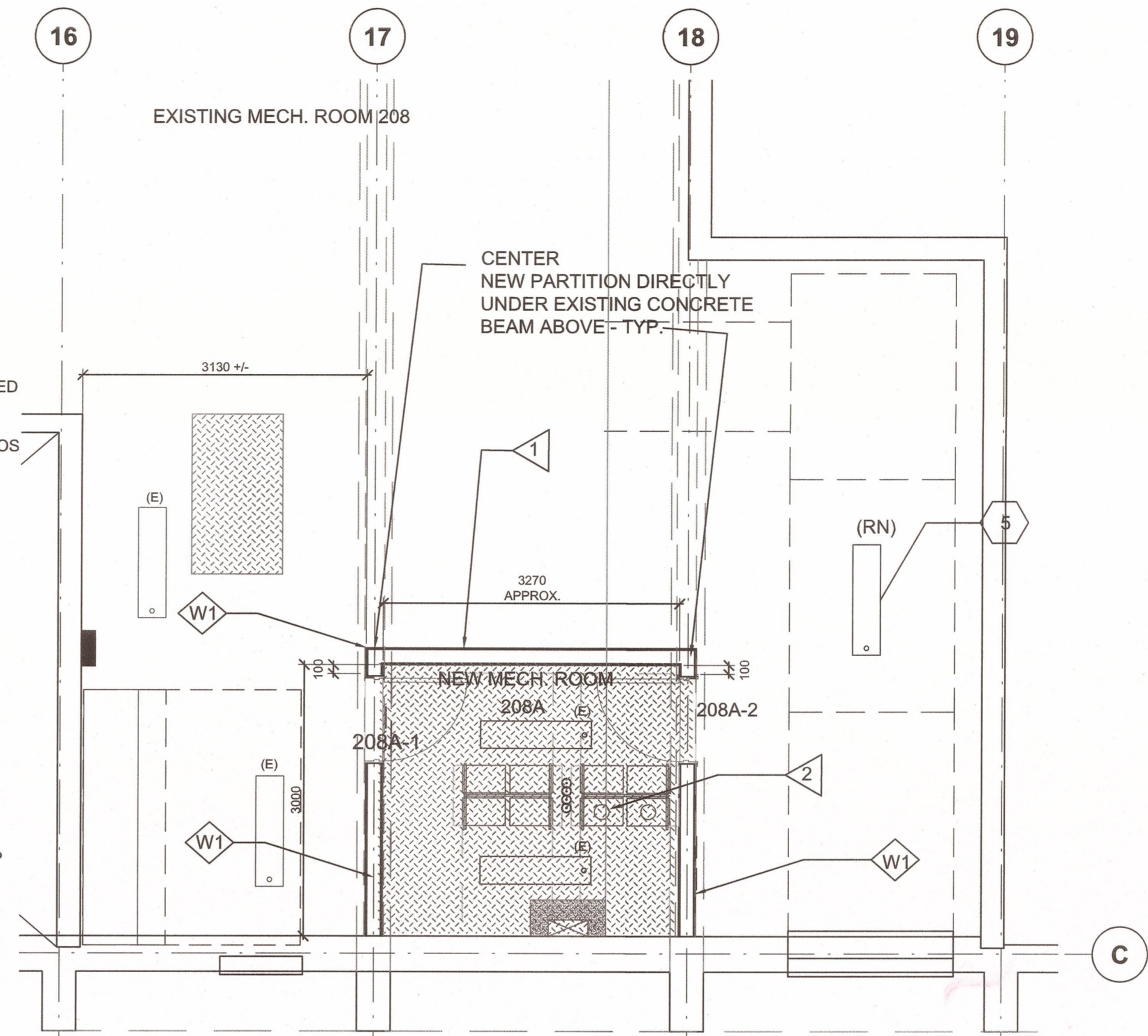
6 ROOM FINISH SCHEDULE
A-101 NTS

NOTE:
- FIRE STOP ALL ABANDON OR NEW PENETRATIONS THROUGH ALL NON-RATED & RATED FLOOR SLABS, WALLS & STRUCTURAL CEILINGS TO ULC-S115M OR CAN4-S115-M, ULC GUIDELINE NO. 19.13 & U19.15, ASTM E-814 DESIGNATION ULC 1479. INSTALL FIRESTOPPING & SMOKE SEAL & COMPONENTS WITH ULC/cUL CERTIFICATION & MANUFACTURER'S INSTRUCTIONS.

FLOOR FINISH LEGEND
EPOXY FLOOR FINISH REFER TO SPEC.



2 2ND FLOOR PARTIAL PLAN - DEMOLITION
A-101 1:50



1 2ND FLOOR PARTIAL PLAN - NEW
A-101 1:50

GENERAL CONSTRUCTION NOTES:

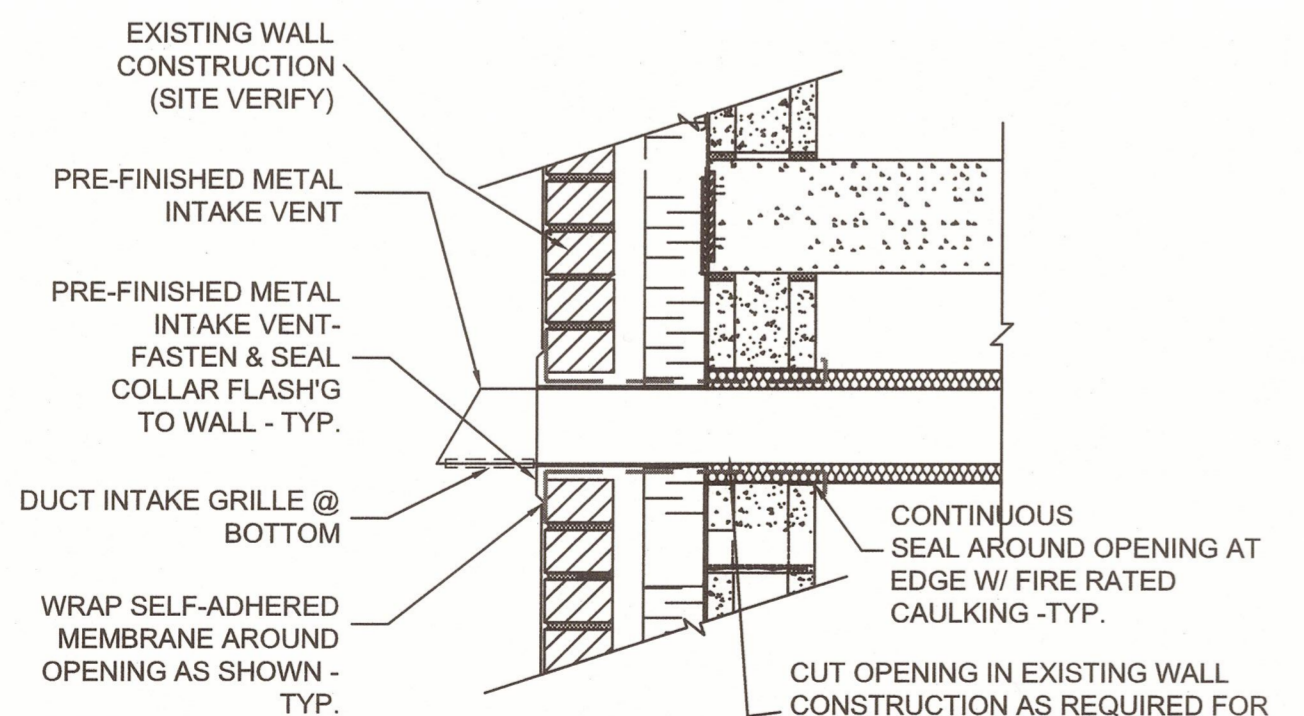
- THESE NOTES APPLY TO ALL DRAWINGS.
- CHECK AND VERIFY ALL DIMENSIONS ON SITE AND REPORT ALL ERRORS AND OMISSIONS TO THE DEPARTMENTAL REPRESENTATIVE PRIOR TO COMMENCING WORK.
- THESE DRAWINGS ARE NOT TO BE SCALED.
- ALL DIMENSIONS, UNLESS OTHERWISE NOTED, ARE METRIC.
- ALL MATERIALS TO MEET FLAME SPREAD RATING REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
- ALL WORK TO BE COMPLETED TO MEET NBC 2015, THE APPLICABLE LOCAL BUILDING CODES, AND LOCAL HEALTH AND FIRE REGULATIONS.
- TOUCH UP AND MAKE GOOD ALL EXISTING WALLS SUITABLE TO RECEIVE WALL FINISH.
- PROVIDE DEFLECTION TRACKS AT TOP OF WALL ATTACHED TO UNDERSIDE OF STRUCTURE.
- PROVIDE CONTINUOUS PLYWOOD BACKING INSIDE WALLS FOR ALL ITEMS SECURED TO WALLS - TYPICAL.
- ALL GWB TO BE 16mm THICK - TYPE 'X', IMPACT RESISTANT AND MOISTURE RESISTANT GYPSUM WALL BOARD.
- FIRESTOP ALL EXISTING AND NEW SERVICE PENETRATIONS THROUGH FLOOR SLAB AND VERTICAL FIRE SEPARATION.
- PROVIDE ACOUSTIC CAULKING AT TOP AND BOTTOM TO ALL NEW WALLS & NEW SERVICE PENETRATIONS. CONTINUOUS FIRE STOP CAULKING BOTH SIDES OF WALL & BOTTOM, FOR ALL NEW FIRE RATED WALL ASSEMBLIES.

CONSTRUCTION KEY NOTES

- 1 NEW PARTITION WALL 1 HR. FRR TO U/S OF STRUCTURE
- 2 NEW MECH. EQUIPMENT - REFER TO MECH.
- W1 1 HOUR FIRE FRR: (ULC DESIGN W407)
-16mm TYPE 'X' IMPACT RESISTANT, MOISTURE RESISTANT GYPSUM WALL BOARD BOTH SIDES OF -152mm STEEL STUDS @ 400 O.C. MAX.
-FILL CAVITY W/ ROCK MINERAL WOOL INSULATION
NOTE:
1. ALL FIRE RATED WALL ASSEMBLY TO CONFORM TO ULC DESIGN:
- 1 HR. FRR.: ULC W407
- 1 1/2HR FRR OR 2 HR FRR: ULC W404
- 2 HR FRR SHAFT WALL: ULC W466 SYSTEM A-D
- 1 HR FRR SHAFT WALL: ULC W466 SYSTEM E&F
2. ALL FIRE RATED WALLS TO BE CONSTRUCTED TO UNDERSIDE OF FLOOR DECK ABOVE.

DEMOLITION KEY NOTES

- 1 DEMOLISH EXISTING CONCRETE PADS & MISC. CONCRETE CURB - PATCH & REPAIR FLOOR, MAKE LEVEL W/ ADJACENT FLOOR, PREP FOR INSTALLATION OF NEW FLOOR FINISH
- 2 EXISTING CONCRETE PADS & MISC. CONCRETE CURB TO REMAIN - UNO
- 3 EXISTING CEILING HUNG LIGHT FIXTURES - TO REMAIN
- 4 EXISTING CEILING HUNG LIGHT FIXTURES - REMOVE & RELOCATE
- 5 NEW LOCATION OF RELOCATED LIGHT FIXTURE



DETAIL:
INTAKE THROUGH EXISTING WALL CONSTRUCTION - SEE MECH.
SCALE: NTS
NOTE: EXISTING MASONRY VENEER WALL & STUCCO FINISH CONSTRUCTION (SITE VERIFY)



MATSQUI INSTITUTION

ABBOTSFORD, BC

PROJECT ADDRESS
3334 KING ROAD
ABBOTSFORD, BC

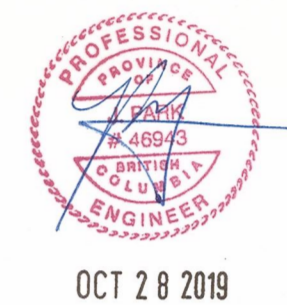
DRAWING LIST	
DWG. NO.	SHEET TITLE
E01	DRAWING LIST, SYMBOL LEGEND AND MECHANICAL EQUIPMENT LIST
E02	LEVEL 1 & 2 - OVERALL FLOOR PLANS
E03	LEVEL 1 & 2 - MECHANICAL ROOM ELECTRICAL PLANS

LIGHTING	
⊕	SINGLE POLE SWITCH
☐	CEILING SURFACE/SUSPENDED 1X4 FIXTURE
☐	4FT STRIP (SURFACE OR SUSPENDED - AS INDICATED)
—	FLEXIBLE CORD LIGHTING
☐	NIGHT LIGHT OR EMERGENCY FIXTURE (TYPICAL)
⊕	LUMINAIRE TYPE TAG

EMERGENCY LIGHTING	
☐	WALL EXIT, TYPE AS INDICATED
☐	CEILING EXIT, TYPE AS INDICATED
☐	WALL REMOTE HEADS - TYPE AS INDICATED
☐	CEILING REMOTE HEADS - TYPE AS INDICATED
☐	BATTERY PACK
☐	BATTERY PACK WITH REMOTE HEADS
☐	BATTERY PACK WITH REMOTE HEADS AND EXIT SIGN

POWER	
⊕	DUPLEX RECEPTACLE (5-15R TYPE UNLESS INDICATED OTHERWISE)
⊕	DUPLEX RECEPTACLE (5-20R)
⊕	DIRECT CONNECTION (OR CONNECTION TYPE AS INDICATED)
⊕	QUAD RECEPTACLE
⊕	QUAD RECEPTACLE (5-20R)
⊕	SPECIAL RECEPTACLE - TYPE AS INDICATED
⊕	JUNCTION BOX (WALL, CEILING, IN GROUND)
⊕	MOTOR
⊕	MOTOR AND DISCONNECT
⊕	MOTOR AND FUSED DISCONNECT
⊕	MOTOR AND MAGNETIC STARTER
⊕	DISCONNECT
⊕	FUSED DISCONNECT
⊕	MAGNETIC STARTER
⊕	HAND OFF AUTO CONTROL
⊕	MANUAL MOTOR STARTER
⊕	ELECTRICAL POWER PANEL - SURFACE OR FLUSH AS INDICATED
⊕	PANEL - TYPE AS INDICATED

ABBREVIATIONS	
EX	EXISTING DEVICE TO REMAIN
RM	REMOVE EXISTING DEVICE
RL	RELOCATE EXISTING DEVICE
ER	EXISTING DEVICE IN RELOCATED POSITION
AFF	ABOVE FINISHED FLOOR
GF	GROUND FAULT
GFR	GROUND FAULT RECEPTACLE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
TYP	TYPICAL
WP	WEATHERPROOF



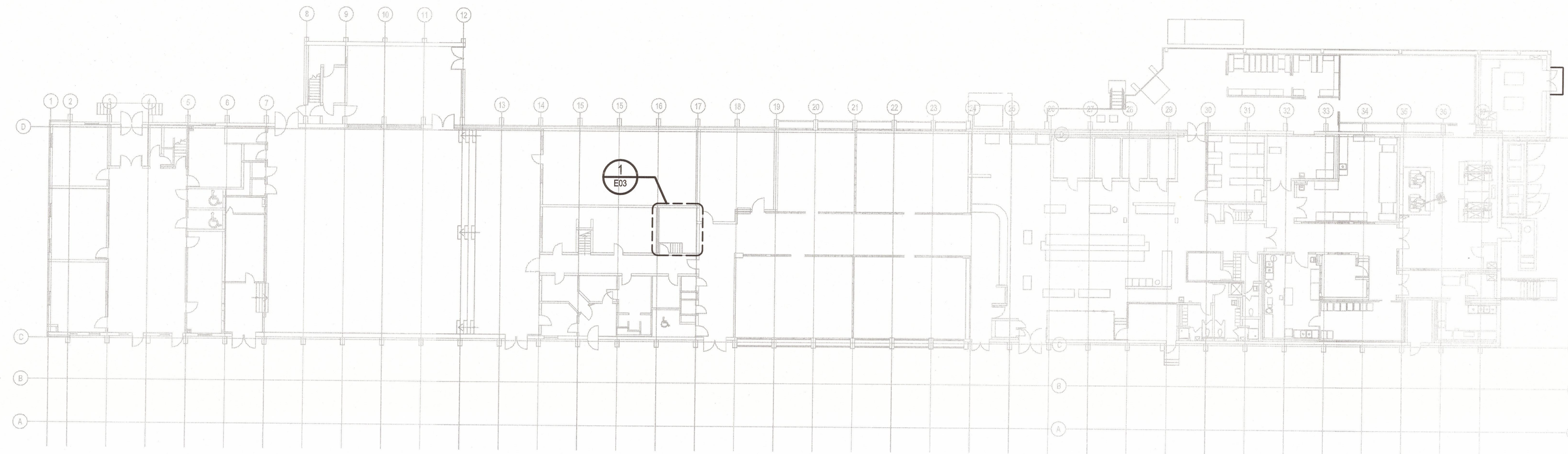
REVISION	REVISION	REV DATES
2	ISSUED FOR TENDER	2019.10.28
1	ISSUED FOR 99% REVIEW	2018.10.17

MECHANICAL EQUIPMENT AND CONTROL SCHEDULE																								
EQUIP. NO.	UNIT DESCRIPTION	LOAD DATA				BREAKER AMPS	CONDUIT (FEEDER) SIZE	BRANCH CIRCUIT		UNIT WIRED BY	STARTER				DISCON. SWITCH		CONTROL DEVICE		POWER SOURCE	NOTES (STARTER ACCESSORIES)				
		POWER	UNIT	VOLT	Ø			PNL	CKT NO.		GROUPING	TYPE	SUPPLIED	INSTALLED	WIRED	SUPPLIED	INSTALLED	WIRED			TYPE	SUPPLIED	INSTALLED	WIRED
DOMESTIC WATER HEATERS																								
DWHT-1	TANKLESS WATER HEATER (L2 - MECH RM)	84 W	120	1	1P-15A	21C (2 - #12 + B #12 CU)	MPA	7	E			M	M	E			PKG	M	M	E				
DWHT-2	TANKLESS WATER HEATER (L2 - MECH RM)	84 W	120	1	1P-15A	21C (2 - #12 + B #12 CU)	MPA	7	E			M	M	E			PKG	M	M	E				
DWHT-3	TANKLESS WATER HEATER (L2 - MECH RM)	84 W	120	1	1P-15A	21C (2 - #12 + B #12 CU)	MPA	7	E			M	M	E			PKG	M	M	E				
DWHT-4	TANKLESS WATER HEATER (L2 - MECH RM)	84 W	230	1	2P-15A	21C (2 - #12 + B #12 CU)	MPA	7	E			M	M	E			PKG	M	M	E				
DWHT-5	TANKLESS WATER HEATER (L2 - MECH RM)	84 W	120	1	1P-15A	21C (2 - #12 + B #12 CU)	MPA	9	E			M	M	E			PKG	M	M	E				
DWHT-6	TANKLESS WATER HEATER (L2 - MECH RM)	84 W	120	1	1P-15A	21C (2 - #12 + B #12 CU)	MPA	9	E			M	M	E			PKG	M	M	E				
DWHT-7	TANKLESS WATER HEATER (L2 - MECH RM)	84 W	120	1	1P-15A	21C (2 - #12 + B #12 CU)	MPA	9	E			M	M	E			PKG	M	M	E				
DWHT-8	TANKLESS WATER HEATER (L2 - MECH RM)	84 W	120	1	1P-15A	21C (2 - #12 + B #12 CU)	MPA	9	E			M	M	E			PKG	M	M	E				
PUMPS																								
P-1A	CIRCULATION PUMP	373 W	120	1	1P-20A	21C (2 - #12 + B #12 CU)	MPA	1	E			M	M	E	E	E	ASTAT	M	M	M				
P-1B	CIRCULATION PUMP	373 W	120	1	1P-20A	21C (2 - #12 + B #12 CU)	MPA	1	E			M	M	E	E	E	ASTAT	M	M	M				
P-2A	BUILDING RECIRC PUMP	890 W	120	1	1P-25A	21C (2 - #12 + B #12 CU)	MPA	3	E			M	E	E	E	E	TC	M	M	M				
P-2B	BUILDING RECIRC PUMP	890 W	120	1	1P-25A	21C (2 - #12 + B #12 CU)	MPA	5	E			M	E	E	E	E	TC	M	M	M				
SUPPLY FAN																								
SF-1	SUPPLY FAN (L2 - MECH RM)	51 W	120	1	1P-15A	21C (2 - #12 + B #12 CU)	MPA	6	E			E	E	E			WS	E	E	E				
DUCT HEATING COIL																								
DH-1	DUCT HEATING COIL (L2 - MECH RM)		208	1	2P-20A	21C (2 - #12 + B #12 CU)	MPA	13 15	E			M	M	E			TS	M	E	E				
ABBREVIATIONS:																								
GENERAL:					STARTER TYPE:					STARTER ACCESSORIES:					CONTROL DEVICES:									
M = MECHANICAL					MAG = MAGNETIC (FVNR)					HOA = HAND-OFF-AUTO SWITCH					TS = THERMOSTAT					I = INTERLOCK				
E = ELECTRICAL										MR = MOTOR RATED RELAY					TC = TIME CLOCK					CP = SYSTEM CONTROL PANEL / STARTER				
															WS = WALL SWITCH					ASTAT= AQUASTAT				

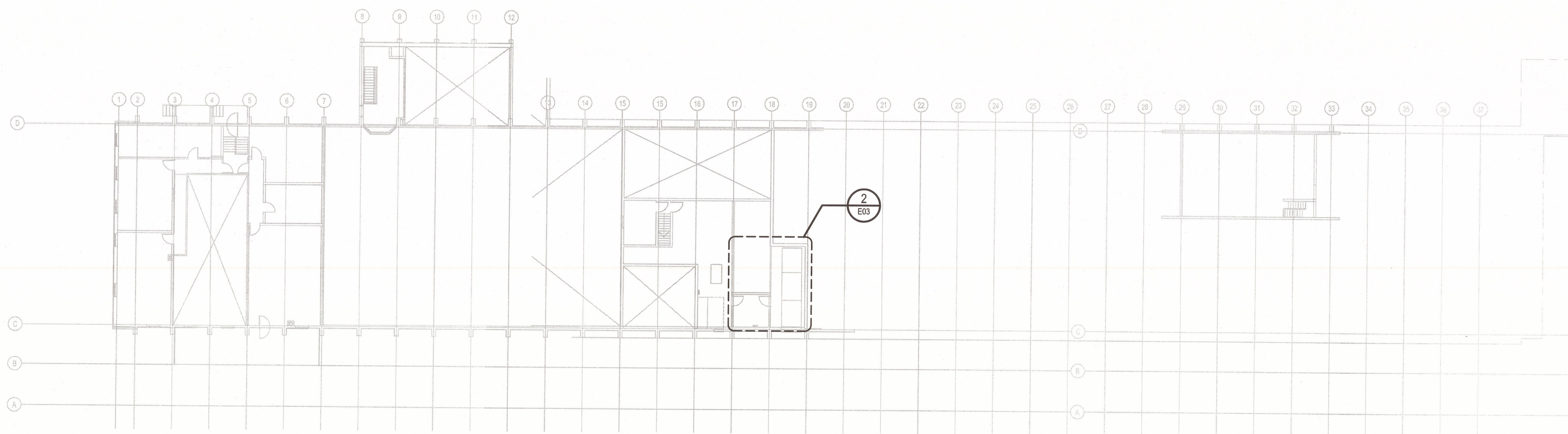
Client/client		
CORRECTIONAL SERVICE CANADA		
Project Title/Titre du projet MATSQUI INSTITUTION ABBOTSFORD, BC		
M4 (KITCHEN/DINING) - DOMESTIC HOT WATER TANK REPLACEMENT		
Consultant Signature Box Only		
Designed by/Concept par J. PARK		
Drawn by/Dessiné par J. PARK		
PWGSC Project Manager/Administrateur de Projets TPSGC J. NG		
PWGSC, Regional Manager, Architectural and Engineering Services/ Gestionnaire régionale, Services d'architecture et de génie, TPSGC PREETIPAL PAUL		
Drawing title/Titre du dessin DRAWING LIST, SYMBOL LEGEND AND MECHANICAL EQUIPMENT LIST		
Project No./No. du projet R.082467.001	Sheet/Fauille E01 OF 3	Revision no./La Révision no. 2



OCT 28 2019



1 LEVEL 1 - OVERALL FLOOR PLAN
E02 1:250



2 LEVEL 2 - OVERALL FLOOR PLAN
E02 1:250

REV/NO	REVISION	REVISION DATE
2	ISSUED FOR TENDER	2019.10.28
1	ISSUED FOR 99% REVIEW	2018.10.17

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Project title/Titre du projet
MATSQUI INSTITUTION ABBOTSFORD, BC

M4 (KITCHEN/DINING) - DOMESTIC HOT WATER TANK REPLACEMENT

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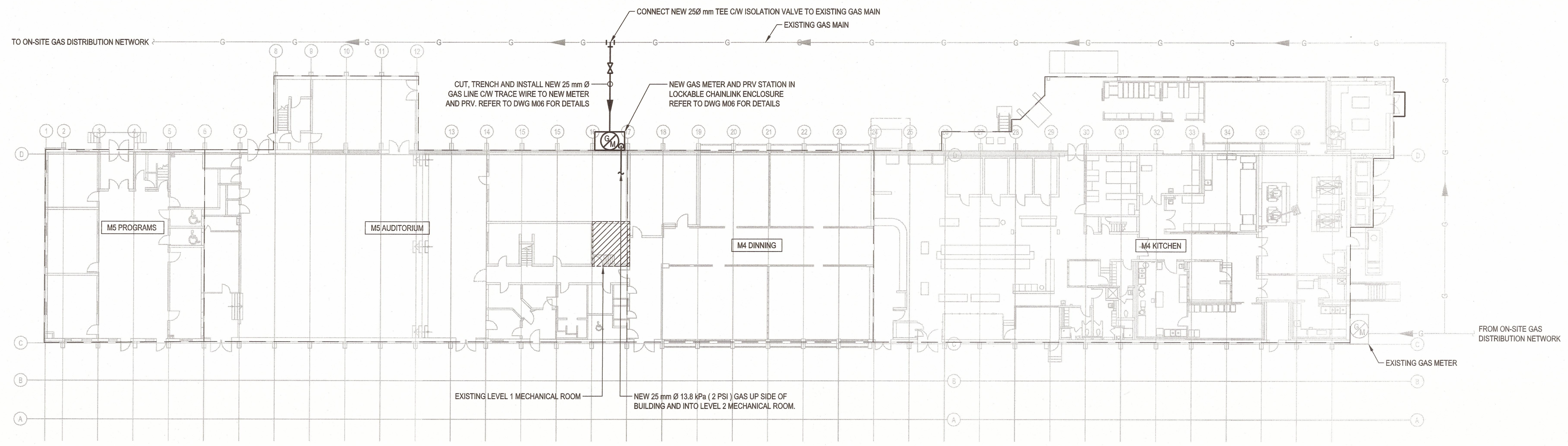
PWGSC Project Manager/Administrateur de Projets TPSGC
J. NG

PWGSC, Regional Manager, Architectural and Engineering Services/
Gestionnaire régional, services d'architecture et de génie, TPSGC
PREETIPAL PAUL

Drawing title/Titre du dessin

LEVEL 1 & 2 - OVERALL FLOOR PLANS

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.082467.001	E02 OF 3	2



1 SITE PLAN
 M01 1:250

MECHANICAL SYMBOLS SCHEDULE

PIPING & ACCESSORIES		PLUMBING	
	DIRECTION OF FLOW		DOMESTIC COLD WATER (DCW)
	PIPE/DUCT SLOPE DIRECTION		DOMESTIC HOT WATER (DHW)
	PIPE ELBOW DOWN		DOMESTIC HOT WATER RECIRC. (DHWR)
	PIPE ELBOW UP		SANITARY ABOVE GRADE
	PIPE TEE DOWN		SANITARY BELOW GRADE
	PIPE TEE UP		NATURAL GAS - LOW PRESSURE
	PIPE TEE		HOSE BIBB
	PIPE BREAK		P-TRAP
	PIPE ENDCAP/PLUG		SANITARY VENT UP
	UNION CONNECTION		END OF LINE CLEANOUT
	GATE VALVE		OPEN DRAIN
	CHECK VALVE		STANDARD FLOOR DRAIN
	PRESSURE REDUCING VALVE		HUB FLOOR DRAIN
	BALANCING VALVE		FUNNEL FLOOR DRAIN
	STRAINER		MANHOLE
	PRESSURE RELIEF VALVE		GAS METER
	THERMOMETER W/ WELL/TAP	TAGS & LABELS	
	TEMPERATURE GAUGE W/ WELL/TAP		EXISTING MECHANICAL/PLUMBING TO REMAIN
	PRESSURE GAUGE		EXISTING MECHANICAL/PLUMBING TO BE REMOVED
	CIRCULATION PUMP		EQUIPMENT/FIXTURE TAG
			DRAWING KEYNOTE
			DRAWING KEYNOTE
			DETAIL NOTE
			REVISION TAG
			DETAIL TAG

DRAWING LIST

ARCHITECTURAL		
DWG #	DWG NAME	SCALE
A-101	SECOND FLOOR PARTIAL PLAN - DEMOLITION & NEW	1:50

MECHANICAL		
DWG #	DWG NAME	SCALE
M01	SITE PLAN, LEGEND, DRAWING LIST, LOAD SUMMARY	AS NOTED
M02	LEVEL 1 & 2, MECHANICAL OVERALL PLAN	1:250
M03	LEVEL 1 DEMO & NEW MECHANICAL ROOM PLAN	1:50
M04	LEVEL 2 DEMO & NEW MECHANICAL ROOM PLAN	1:50
M05	SCHEDULE AND SCHEMATICS	NTS
M06	MECHANICAL DETAILS	NTS

ELECTRICAL		
DWG #	DWG NAME	SCALE
E01	DRAWING LIST, SYMBOL LEGEND AND MECHANICAL EQUIPMENT LIST	AS NOTED
E02	LEVEL 1 & 2 - OVERALL FLOOR PLANS	1:250
E03	LEVEL 1 & 2 - MECHANICAL ROOM ELECTRICAL PLANS	1:50

LOAD SUMMARY

GAS EQUIPMENT (DELIVER PRESSURE: 13.8 KPa @ 25MM)		
EQUIP.	GAS LOAD (BTU/H)	GAS LOAD (KW)
DWH-1	199,000 BTU/H	58.3 KW
DWH-2	199,000 BTU/H	58.3 KW
DWH-3	199,000 BTU/H	58.3 KW
DWH-4	199,000 BTU/H	58.3 KW
DWH-5	199,000 BTU/H	58.3 KW
DWH-6	199,000 BTU/H	58.3 KW
DWH-7	199,000 BTU/H	58.3 KW
DWH-8	199,000 BTU/H	58.3 KW
TOTAL	1,592,000 BTU/H	466.5 KW

REV/NO	REV/DESC	REV/DATE
2	ISSUED FOR TENDER	2019/10/28
1	ISSUED FOR 99%	2018/10/17

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
MATSQUI INSTITUTION ABBOTSFORD, BC

M4 (KITCHEN/DINING) - DOMESTIC HOT WATER TANK REPLACEMENT

Consultant Signature Box Only

Designed by/Concept par
K. DER

Drawn by/Dessine par
R. WANG

PWGSC Project Manager/Administrateur de Projets TPSSC
J. NG

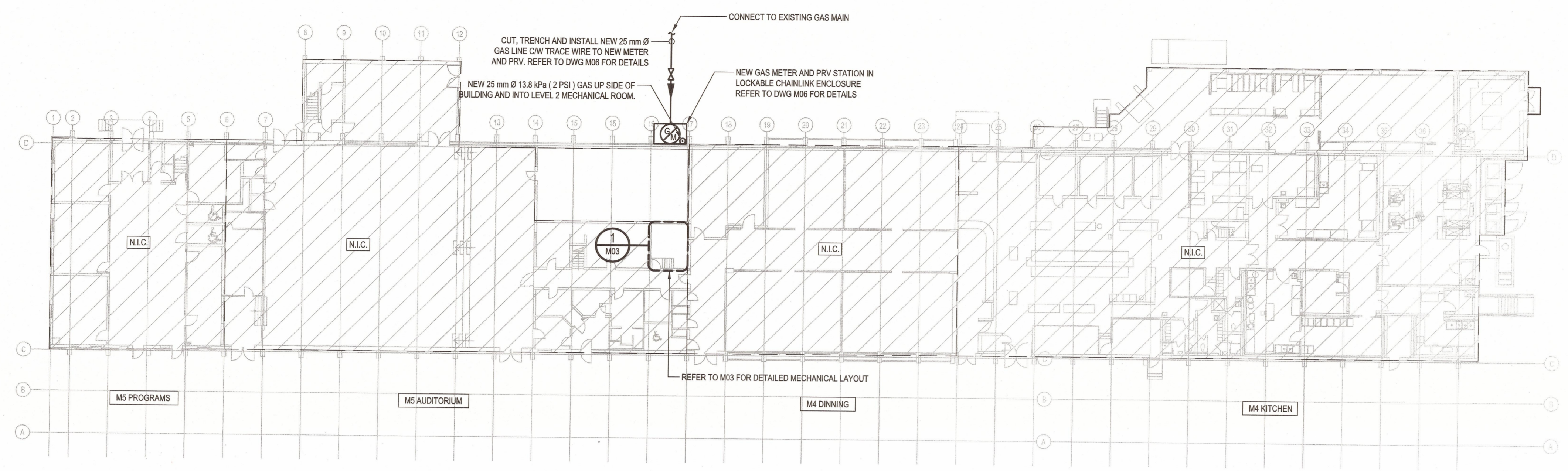
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PREETIPAL PAUL

Drawing title/Titre du dessin

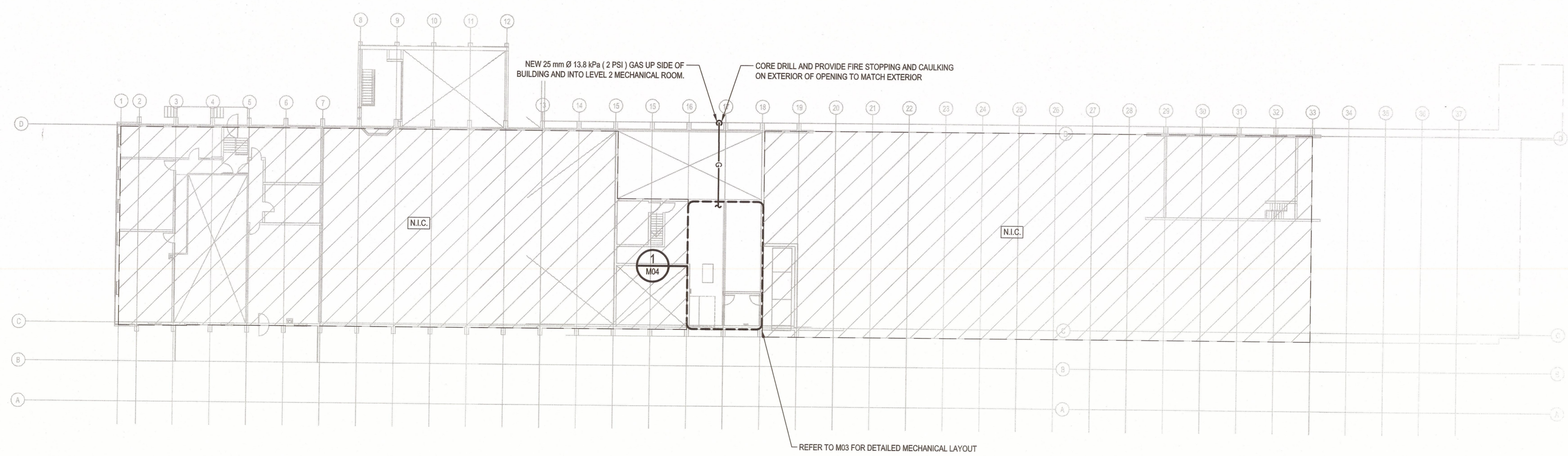
**SITE PLAN
 LEGEND
 DRAWING LIST
 LOAD SUMMARY**

Project No./No. du projet	Sheet/Feuille	Revision no./La Révision no.
R.082467.001	M01 OF 6	2





1 LEVEL 1 - MECHANICAL OVERALL PLAN
 M02 1:250



2 LEVEL 2 - MECHANICAL OVERALL PLAN
 M02 1:250

REV/NO	REVISIONS	REV DATES
2	ISSUED FOR TENDER	2019/10/28
1	ISSUED FOR 99%	2018/10/17

Client/client: **CORRECTIONAL SERVICE CANADA**

Project title/Titre du projet: **MATSQUI INSTITUTION ABBOTSFORD, BC**
M4 (KITCHEN/DINING) - DOMESTIC HOT WATER TANK REPLACEMENT

Designed by/Concept par: **K. DER**
 Drawn by/Dessiné par: **R. WANG**
 PWGSC Project Manager/Administrateur de Projets TPSSC: **J. NG**
 PWGSC Regional Manager, Architectural and Engineering Services/Gestionnaire régionale, Services d'architecture et de génie, TPSSC: **PREETIPAL PAUL**

Drawing title/Titre du dessin: **LEVEL 1 & 2 - MECHANICAL OVERALL PLAN**

Project No./No. du projet: R.082467.001	Sheet/Feuille: M02 OF 6	Revision no./La Révision no.: 2
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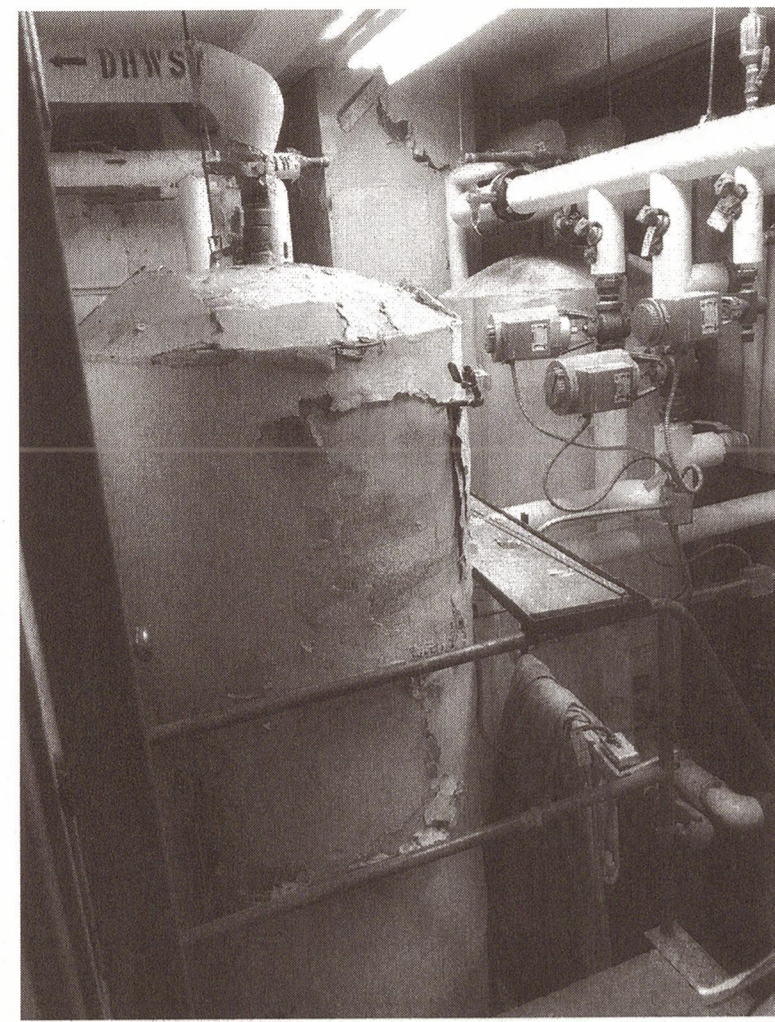


PHOTO #1

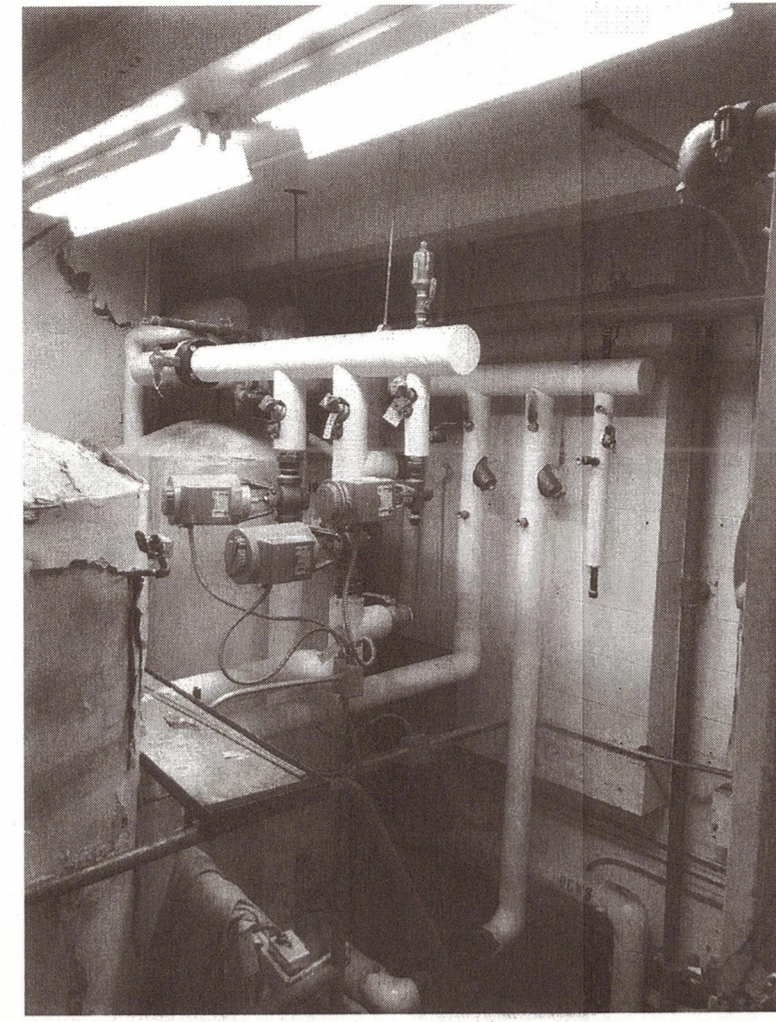


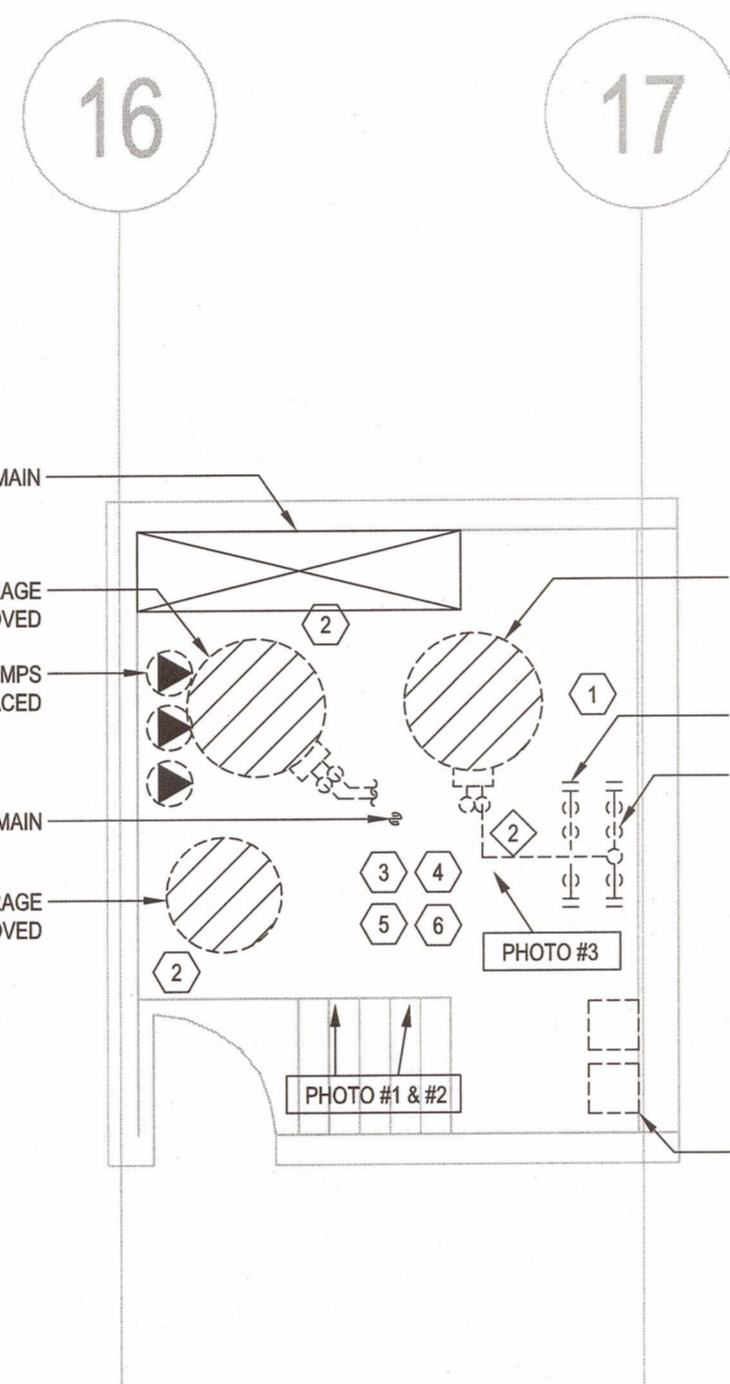
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PHASING NOTES:

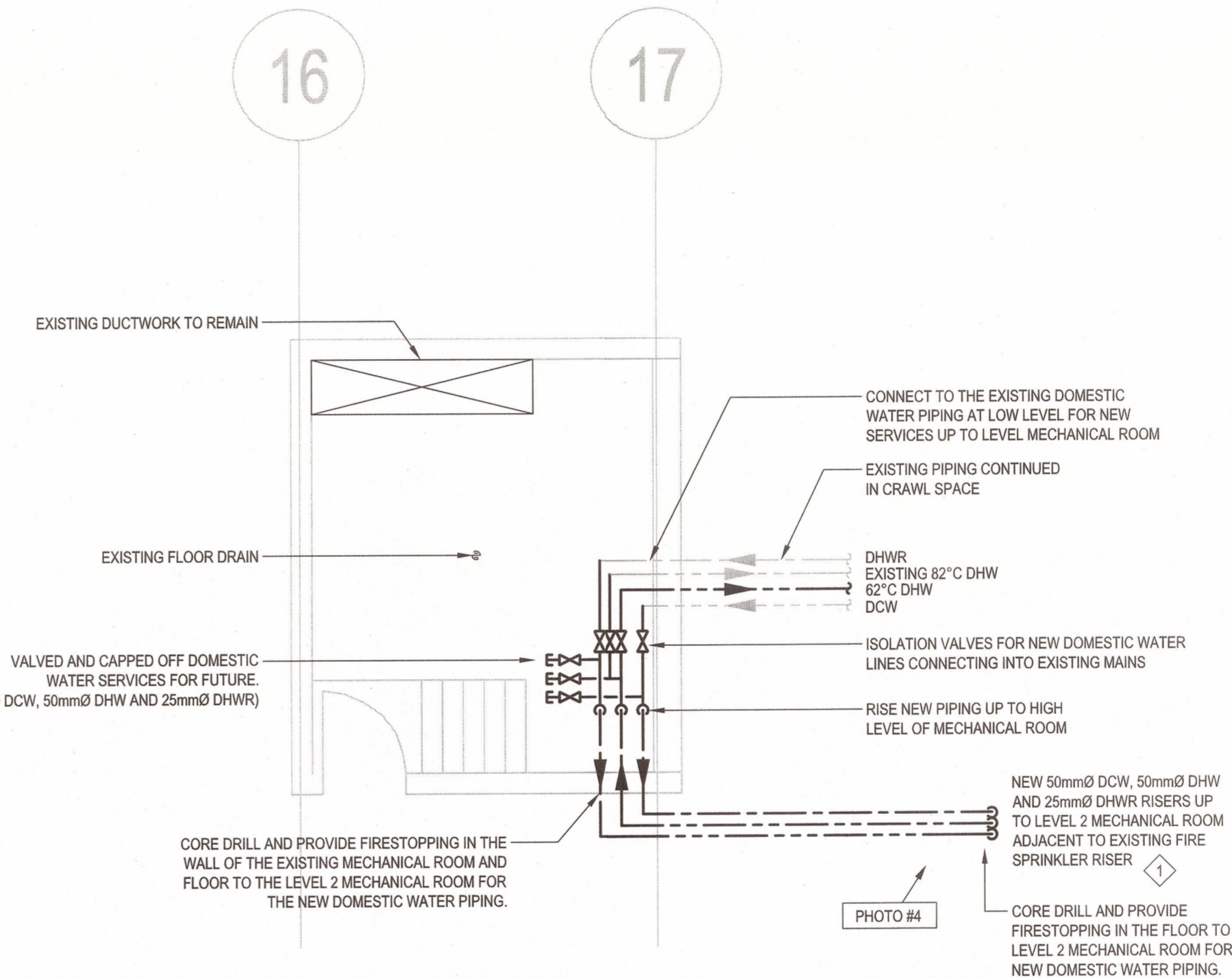
- 1 THE EXISTING DOMESTIC HOT WATER PLANT SHALL REMAIN IN FULL OPERATION DURING THE DURATION OF CONSTRUCTION OTHER THAN DURING A SCHEDULED CHANGEOVER TIME APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
- 2 PROVIDE AND CONSTRUCT ALL NEW PIPING AND VALVES FROM THE EXISTING LEVEL 1 MECHANICAL ROOM UP TO THE NEW LEVEL 2 MECHANICAL ROOM IN ADVANCE OF DEMOLISHING ANY EXISTING PIPING.
- 3 ONLY AFTER THE NEW DOMESTIC HOT WATER PLANT HAS BEEN FULLY TESTED AND COMMISSIONED SHALL THE CONTRACTOR ARRANGE WITH THE DEPARTMENTAL REPRESENTATIVE FOR A SYSTEM CHANGEOVER.
- 4 ONCE THE SYSTEM CHANGEOVER IS COMPLETE AND THE DEPARTMENTAL REPRESENTATIVE AND CONSULTANT ARE SATISFIED WITH THE INSTALLATION AND OPERATION OF THE SYSTEM, MAY THE CONTRACTOR BEGIN THE DEMOLITION WORK.

DEMO PLAN KEYNOTES:

- 1 CAP OFF SUPPLY AND RETURN HEATING WATER LINES AT THE HEADER ISOLATION VALVE AT HIGH LEVEL AND REMOVE REDUNDANT PIPING.
- 2 DRAIN DOWN AND REMOVE EXISTING STORAGE TANKS IN PIECES THROUGH THE MAN DOOR.
- 3 REMOVE AND CAP OFF IN LEVEL 1 MECHANICAL ROOM ALL 82°C DOMESTIC HOT WATER AND COLD WATER SUPPLY PIPING TO THE EXISTING STORAGE TANKS.
- 4 REMOVE AND CAP OFF IN LEVEL 1 MECHANICAL ROOM ALL 60°C DOMESTIC HOT WATER AND COLD WATER SUPPLY PIPING TO THE EXISTING STORAGE TANKS.
- 5 REMOVE ALL EXISTING T&P RELIEF PIPING CURRENTLY BE DISCHARGED INTO THE EXISTING FLOOR DRAIN.
- 6 ALL ABANDONED WIRING, CABLES, CONDUITS, HANGERS, ANCILLARY EQUIPMENT AND PNEUMATIC CONTROL PANELS TO BE DECOMMISSIONED AND REMOVED PROPERLY.



1 LEVEL 1 - DEMO MECHANICAL ROOM PLAN
M03 1:50



2 LEVEL 1 - NEW MECHANICAL ROOM PLAN
M03 1:50

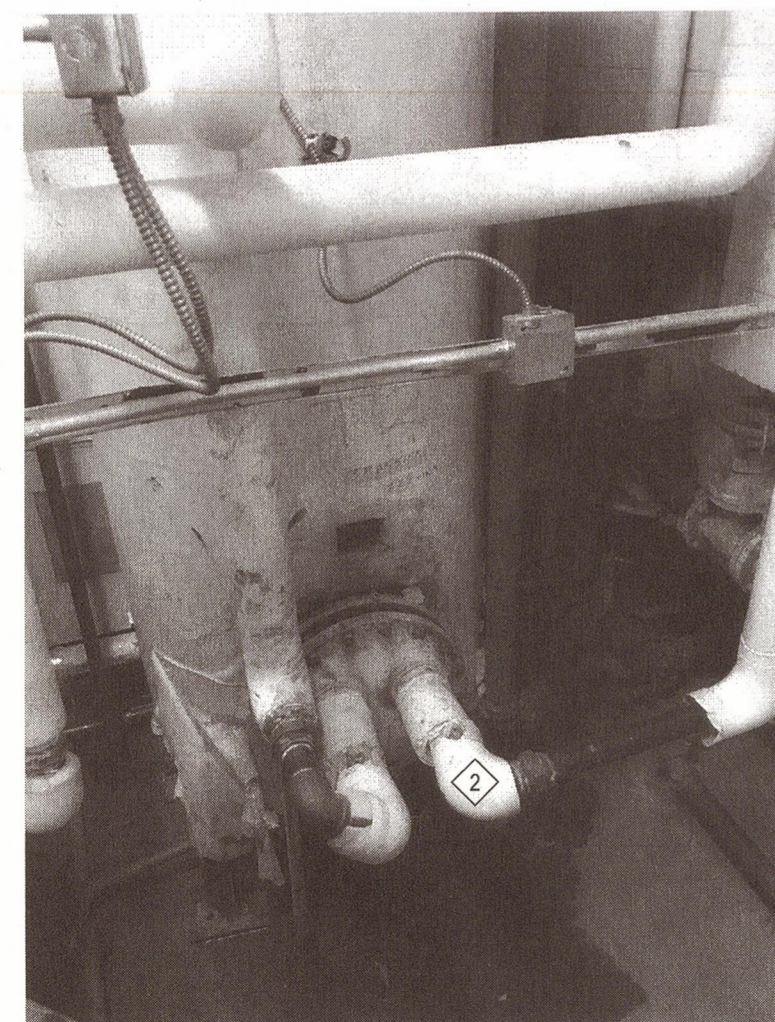


PHOTO #3



PHOTO #4

REV#	REVISION	REV DATES
2	ISSUED FOR TENDER	2019/10/28
1	ISSUED FOR 99%	2018/10/17

Client/client

CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
MATSQUI INSTITUTION ABBOTSFORD, BC

M4 (KITCHEN/DINING) - DOMESTIC HOT WATER TANK REPLACEMENT

Consultant Signature Box Only

Designed by/Concept par
K. DER

Drawn by/Dessine par
R. WANG

PWGSC Project Manager/Administrateur de Projets TPSGC
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PREETIPAL PAUL

Drawing title/Titre du dessin

LEVEL 1 DEMO AND NEW MECHANICAL ROOM PLAN

Project No./No. du projet	Sheet/Feuille	Revision no./ La Révision no.
R.082467.001	M03 OF 6	2



- PHASING NOTES:**
- THE EXISTING DOMESTIC HOT WATER PLANT SHALL REMAIN IN FULL OPERATION DURING THE DURATION OF CONSTRUCTION OTHER THAN DURING A SCHEDULED CHANGEOVER TIME APPROVED BY THE DEPARTMENTAL REPRESENTATIVE.
 - PROVIDE AND CONSTRUCT ALL NEW PIPING AND VALVES FROM THE EXISTING LEVEL 1 MECHANICAL ROOM UP TO THE NEW LEVEL 2 MECHANICAL ROOM IN ADVANCE OF DEMOLISHING ANY EXISTING PIPING.
 - ONLY AFTER THE NEW DOMESTIC HOT WATER PLANT HAS BEEN FULLY TESTED AND COMMISSIONED SHALL THE CONTRACTOR ARRANGE WITH THE DEPARTMENTAL REPRESENTATIVE FOR A SYSTEM CHANGEOVER.
 - ONCE THE SYSTEM CHANGEOVER IS COMPLETE AND THE DEPARTMENTAL REPRESENTATIVE AND CONSULTANT ARE SATISFIED WITH THE INSTALLATION AND OPERATION OF THE SYSTEM, MAY THE CONTRACTOR BEGIN THE DEMOLITION WORK.

- NEW MECHANICAL ROOM PLAN KEYNOTES:**
- PIPE T&P RELIEF FROM STORAGE TANK OVER TO EXISTING FLOOR DRAIN.
 - PIPE T&P RELIEF AND CONDENSATE DRAINS C/W ACID NEUTRALIZER FROM TANKLESS WATER HEATERS OVER TO EXISTING FLOOR DRAIN.
 - TANKLESS WATER HEATERS ON FLOOR ANCHORED SUPPORT FRAME FROM WATER HEATER MANUFACTURER. PRODUCTS TO SHIP LOOSE FROM FACTORY TO ENABLE FRAME TO BE MANEUVERED UP THE STAIRS TO THE MECHANICAL ROOM AND REASSEMBLED.

- GENERAL NOTES:**
- REFER TO MANUFACTURER'S INSTALLATION MANUAL FOR DETAILS OF DCW, DHW, GAS, AND CONDENSATE PIPES CONNECTION TO TANKLESS WATER HEATERS.
 - REFER TO MANUFACTURER'S INSTALLATION MANUAL FOR DETAILS OF EXHAUST VENT AND AIR INTAKE FOR TANKLESS WATER HEATERS.
 - REFER TO M05 FOR NEW MECH ROOM SCHEMATICS.

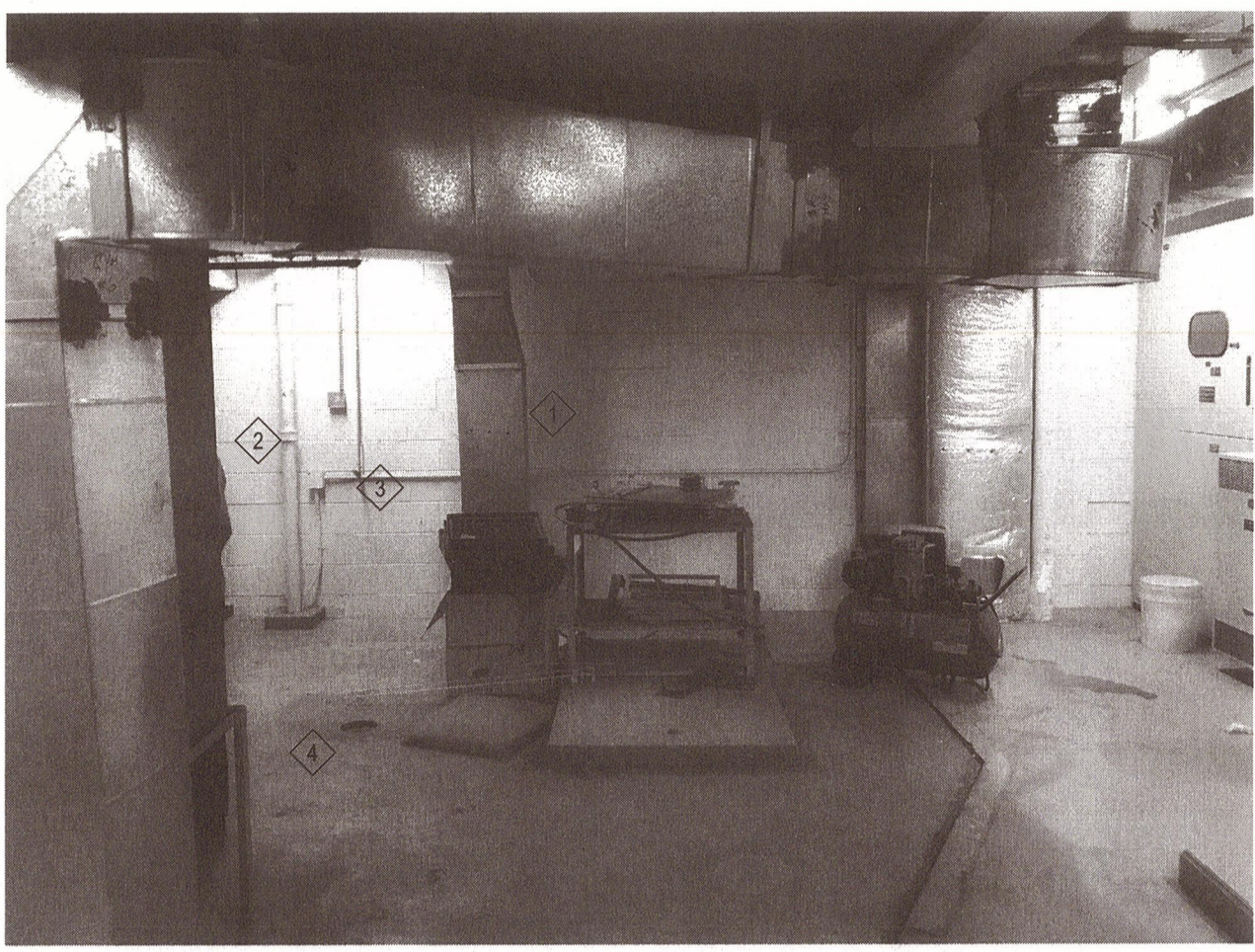


PHOTO #5

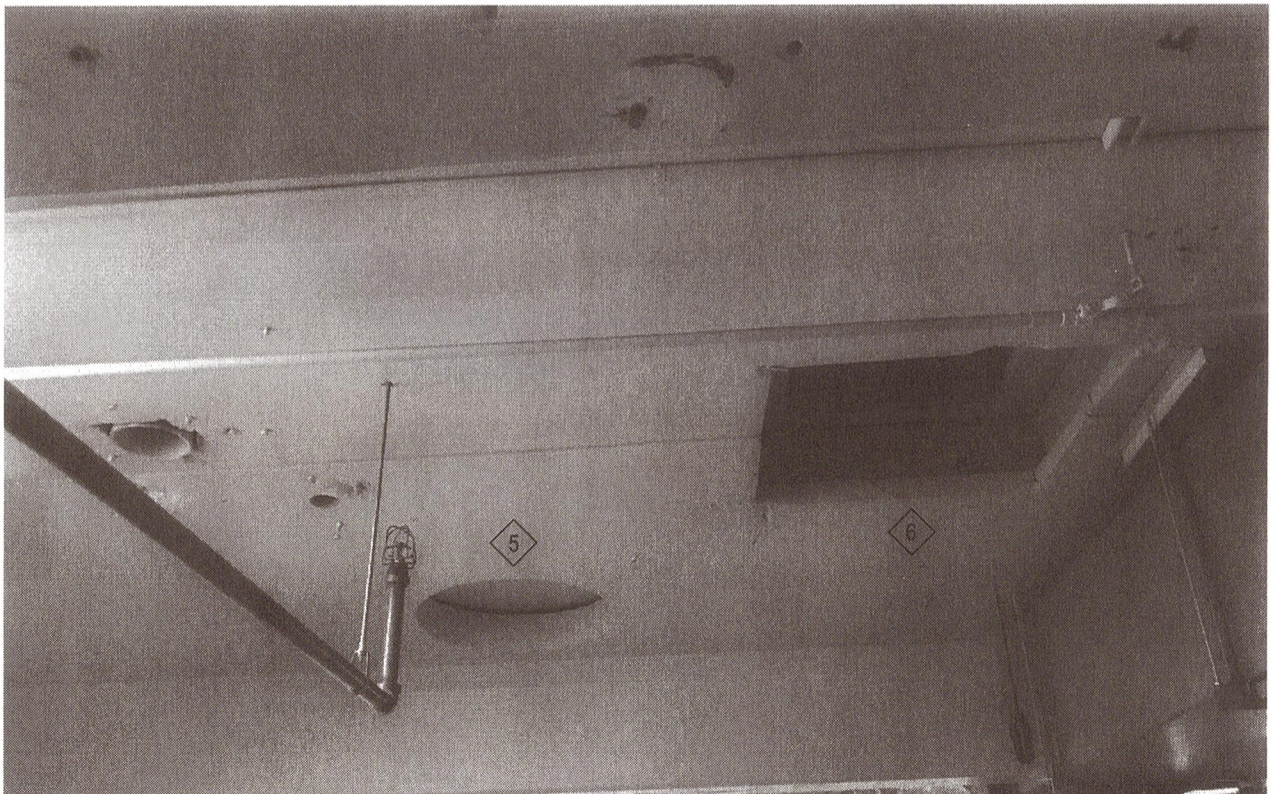
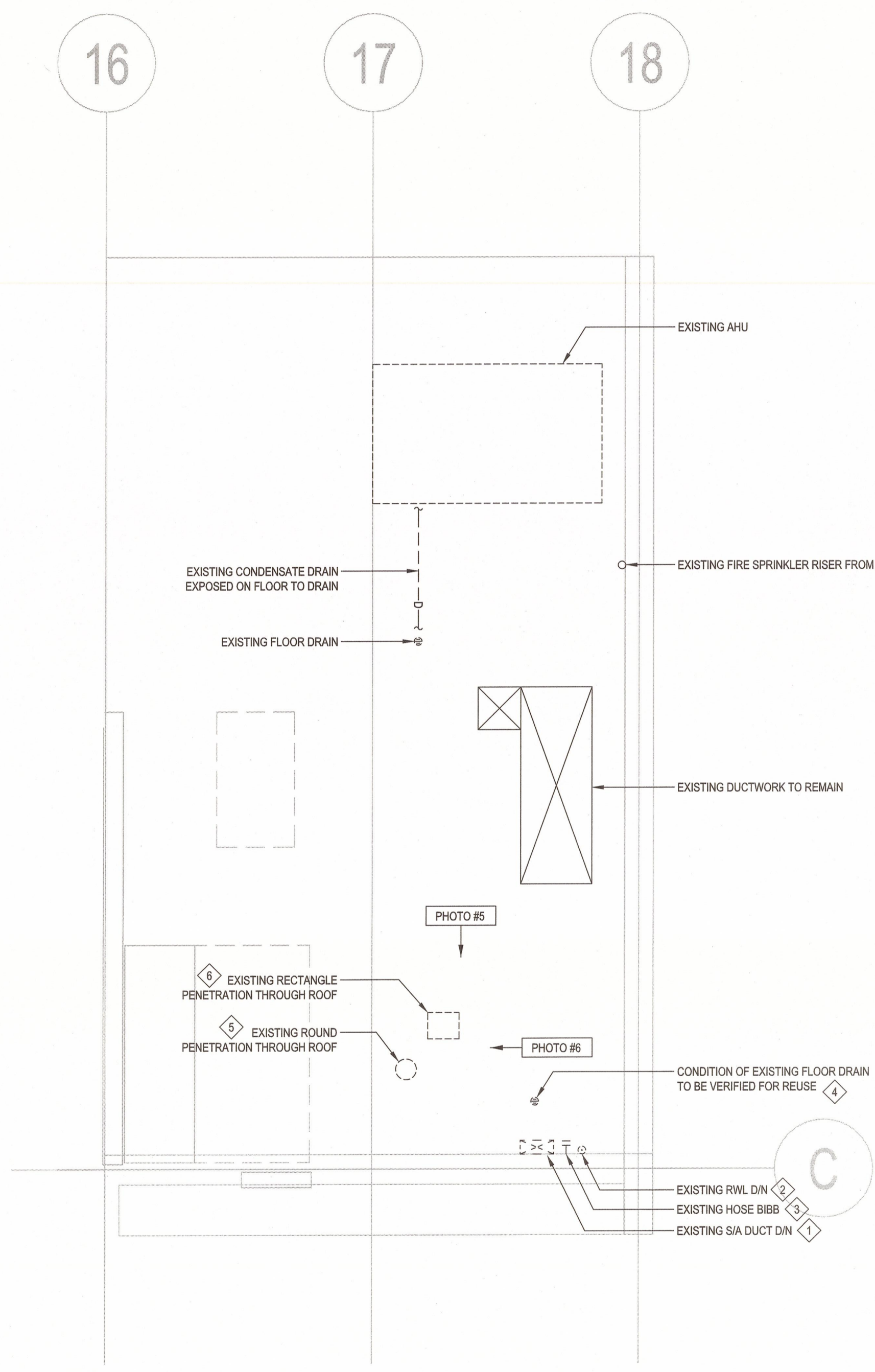
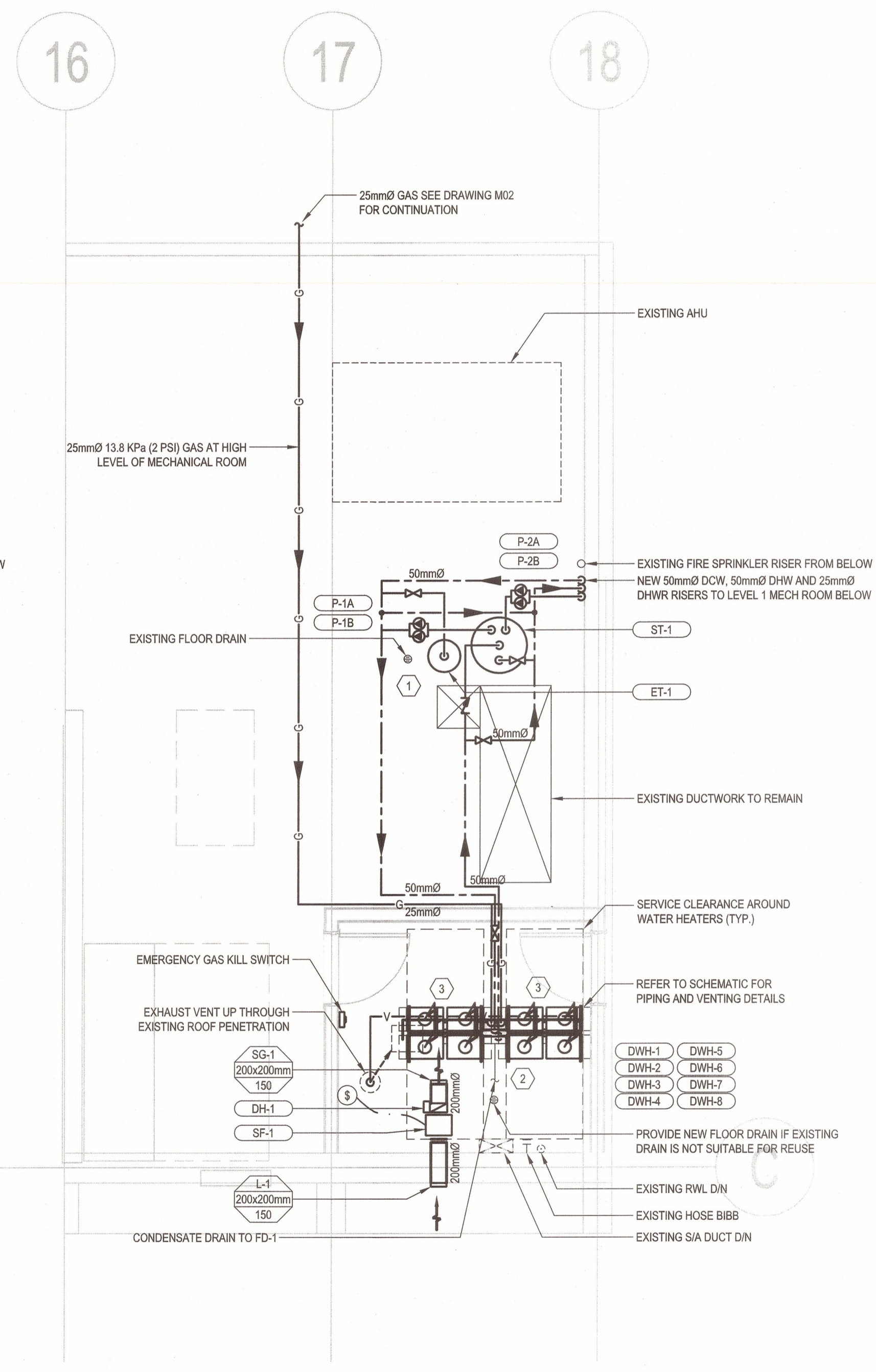


PHOTO #6



3 LEVEL 2 - DEMO MECHANICAL ROOM PLAN
M03 1:50



4 LEVEL 2 - NEW MECHANICAL ROOM PLAN
M03 1:50

REV/NO	REVISION	DATE
2	ISSUED FOR TENDER	2019/10/28
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CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
MATSQUI INSTITUTION ABBOTSFORD, BC

M4 (KITCHEN/DINING) - DOMESTIC HOT WATER TANK REPLACEMENT

Consultant Signature Box Only
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PREETIPAL PAUL

Drawing title/Titre du dessin
LEVEL 2 DEMO AND NEW MECHANICAL ROOM PLAN

Project No./No. du projet R.082467.001	Sheet/ Feuille M04 OF 6	Revision no./ La Révision no. 2
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REVISED	REVISIONS	REV DATES
2	ISSUED FOR TENDER	2019/10/28
1	ISSUED FOR 99%	2018/10/17
Revision/Revision	Description/Description	Date/Date

Client/client
CORRECTIONAL SERVICE CANADA

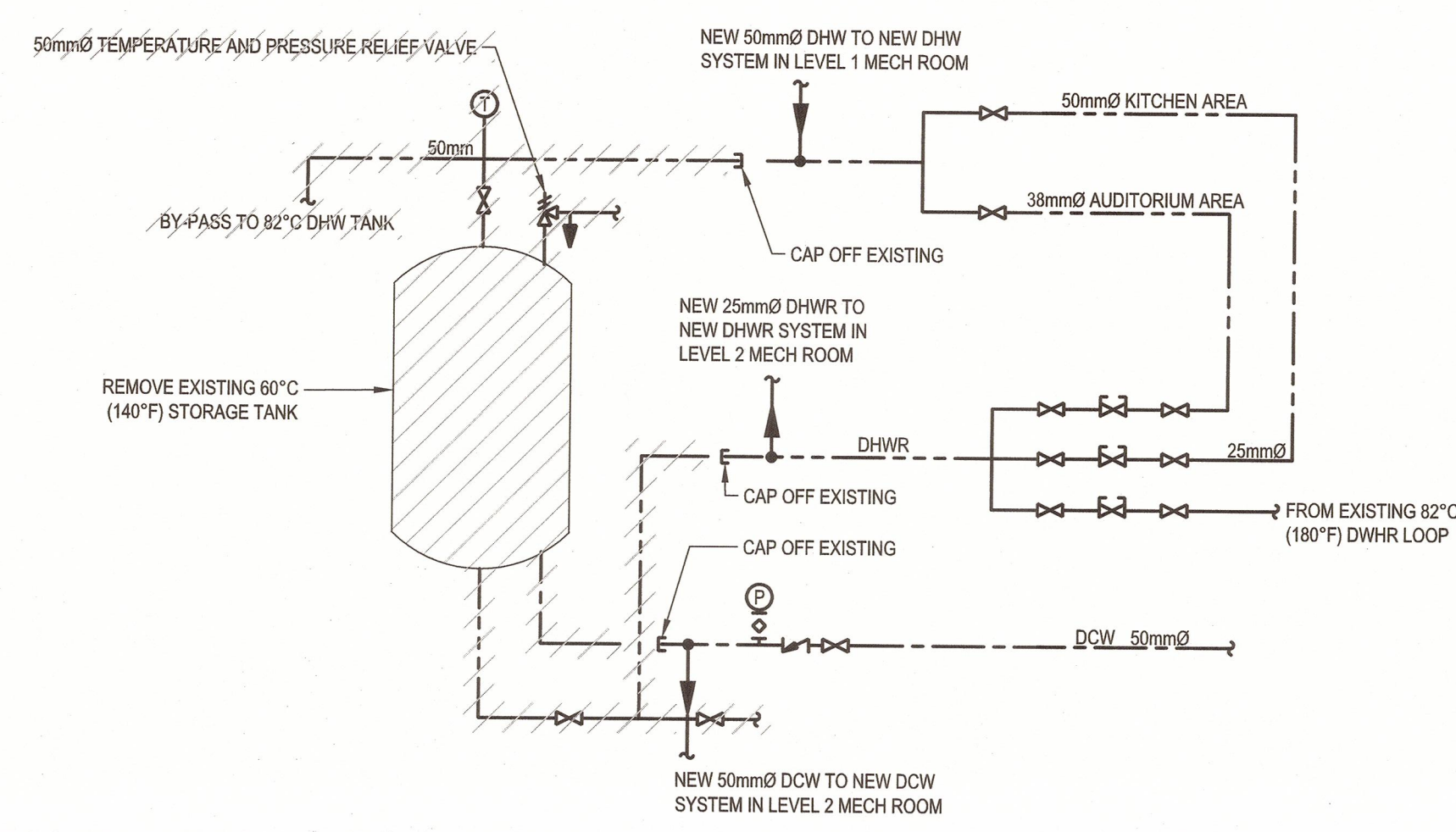
Project title/Titre du projet
MATSQUI INSTITUTION ABBOTSFORD, BC

M4 (KITCHEN/DINING) - DOMESTIC HOT WATER TANK REPLACEMENT

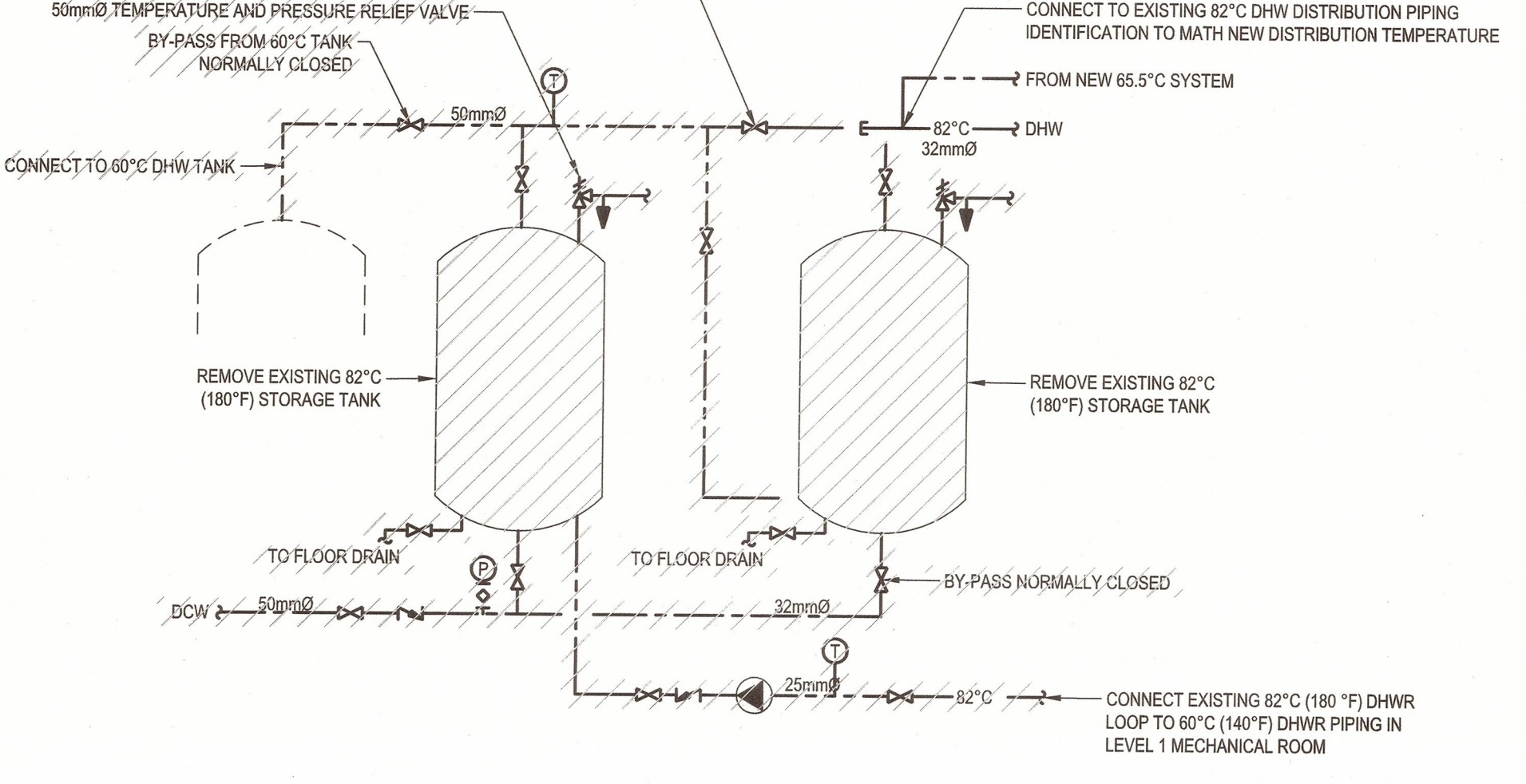
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 Designed by/Concept par **K. DER**
 Drawn by/Dessiné par **R. WANG**
 PWGSC Project Manager/Administrateur de Projets TPSGC **J. NG**
 PWGSC, Regional Manager, Architectural and Engineering Services / Gestionnaire régionale, Services d'architecture et de génie, TPSGC **PREETIPAL PAUL**

Drawing title/Titre du dessin
SCHEDULE AND SCHEMATICS

Project No./No. du projet **R.082467.001** Sheet/Feuille **M05** Revision no./La Révision no. **2**
 OF 06



1 DHWT SCHEMATIC EXISTING (60°C)
 M04 N.T.S.



2 DHWT Schematic Existing (82°C)
 M04 N.T.S.

TAG	MAKE	MODEL	MAX FLOW RATE (L/S)	MAX GAS CONSUMPTION (KW)	BEST WATER SUPPLY PRESSURE (KPa)	WEIGHT (KG)	POWER (W)	ELECTRICAL	NOTES
DHWT-1	RINNAI	CU199i	0.7	58.3	413.7-551.6	29	84	120/1/60	1, 2, 5, 6, 9, 10, 11
DHWT-2	RINNAI	CU199i	0.7	58.3	413.7-551.6	29	84	120/1/60	1, 2, 5, 6, 9, 10, 11
DHWT-3	RINNAI	CU199i	0.7	58.3	413.7-551.6	29	84	120/1/60	1, 2, 5, 6, 9, 10, 11
DHWT-4	RINNAI	CU199i	0.7	58.3	413.7-551.6	29	84	120/1/60	1, 2, 5, 6, 9, 10, 11
DHWT-5	RINNAI	CU199i	0.7	58.3	413.7-551.6	29	84	120/1/60	1, 2, 5, 6, 9, 10, 11
DHWT-6	RINNAI	CU199i	0.7	58.3	413.7-551.6	29	84	120/1/60	1, 2, 5, 6, 9, 10, 11
DHWT-7	RINNAI	CU199i	0.7	58.3	413.7-551.6	29	84	120/1/60	1, 2, 5, 6, 9, 10, 11
DHWT-8	RINNAI	CU199i	0.7	58.3	413.7-551.6	29	84	120/1/60	1, 2, 5, 6, 9, 10, 11

NOTES:
 1. COMMON CONDENSATE NEUTRALIZATION TANK
 2. OPERATING AQUASTAT
 3. SINGLE STAGE GAS VALVE
 4. TWO STAGE GAS VALVE
 5. MODULATING GAS VALVE
 6. POWER VENT KIT
 7. DRAIN PAN
 8. GLASS LINED TANK
 9. STAINLESS STEEL HEAT EXCHANGER
 10. ALTERNATE MANUFACTURERS: NORITZ, VISSMANN.
 11. FACTORY FLOOR MOUNTING RACK

TAG	DUTY	CAPACITY (L/S)	HEAD (M)	POWER	ELECTRICAL	NOTES
P-1A	WATER TANK RECIRC PUMP	0.32	9.14	373 W	120/1/60	1, 2, 3, 11, 12
P-1B	WATER TANK RECIRC PUMP	0.32	9.14	373 W	120/1/60	1, 2, 3, 11, 12
P-2A	BUILDING DHW RECIRC PUMP	0.32	3.66	890 W	120/1/60	1, 2, 3, 11, 12
P-2B	BUILDING DHW RECIRC PUMP	0.32	3.66	890 W	120/1/60	1, 2, 3, 11, 12

NOTES:
 1. ALL PUMPS TO BE COMPLETE WITH BRASS NAME PLATE INDICATING: "PUMP #, FLOW RATE, PRESSURE DATA".
 2. PUMP TO BE INSTALLED TO MANUFACTURERS RECOMMENDATIONS.
 3. PUMP AND IMPELLER TO BE ALL BRONZE CONSTRUCTION.
 4. ALL PUMP MOTORS CONTROLLED BY VFD'S TO BE INVERTER DUTY RATED & CLASS F INSULATED.
 5. SKID MOUNTED PUMP PACKAGE C/W DUPLEX VARIABLE SPEED BOOSTER PUMP CONTROL PANEL & ALL REQUIRED FITTINGS, VALVES, DISCONNECT, DDC TERMINAL STRIP ETC. FACTORY INSTALLED.
 6. C/W UL LISTED FACTORY CONTROL PANEL & AUTOMATIC TRANSFER SWITCH.
 7. C/W UL LISTED FACTORY CONTROL PANEL.
 8. SIMPLEX CONTROL PANEL.
 9. DUPLEX CONTROL PANEL.
 10. C/W CONTROL PANEL, QUICK DISCONNECT, MULTIPLE MERCURY FLOAT SWITCHES WITH ALL ACCESSORIES INCLUDING PUMP STARTERS.
 11. ONE PUMP STANDBY.
 12. ACCEPTABLE MANUFACTURERS: GRUNDFOS, TACO, ARMSTRONG.

TAG	DUTY	TANK VOLUME (L)	SIZE (mm)	NOTES
ET-1	DOMESTIC HOT WATER EXPANSION TANK	53	419mmØ	1, 2, 3, 4, 5

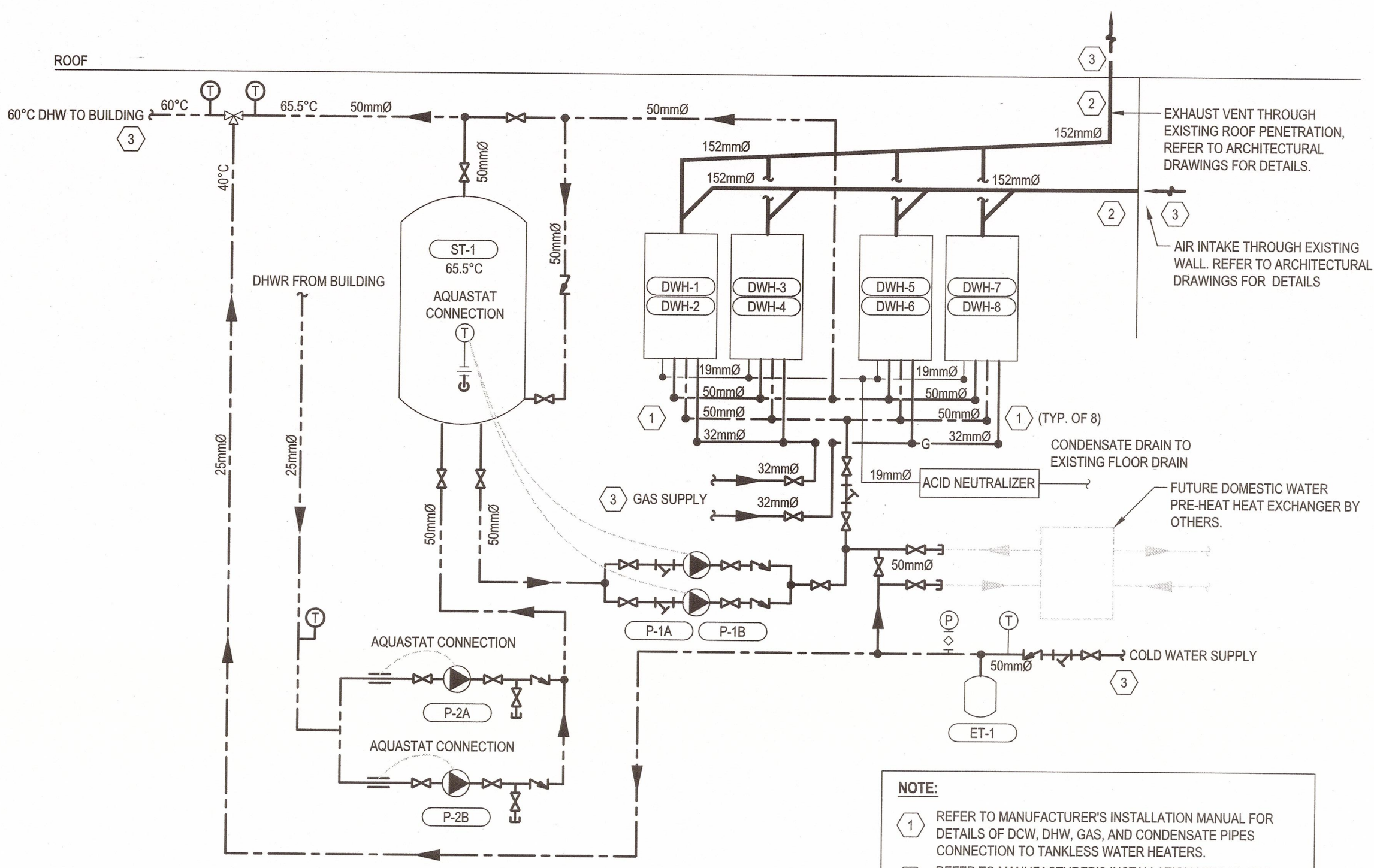
NOTES:
 1. PRECHARGE AIR CUSHION, SITE GLASS
 2. SUITABLE FOR POTABLE WATER SYSTEMS
 3. C/W REQUIRED OPENINGS, TAPPINGS
 4. C/W REPLACEABLE BLADDER AND INSPECTION PORT
 5. C/W SEISMIC RESTRAINT CONNECTIONS & SEISMIC ATTACHMENT POINTS

TAG	DUTY	TANK VOLUME (L)	SIZE (mm)	NOTES
ST-1	DOMESTIC HOT WATER STORAGE TANK	151	760mmØ	2, 3, 5

NOTES:
 1. PRECHARGE AIR CUSHION, SITE GLASS
 2. SUITABLE FOR POTABLE WATER SYSTEMS
 3. C/W REQUIRED OPENINGS, TAPPINGS
 4. C/W REPLACEABLE BLADDER AND INSPECTION PORT
 5. C/W SEISMIC RESTRAINT CONNECTIONS & SEISMIC ATTACHMENT POINTS

TAG	DUTY	L/S	EXTERNAL SP (WG)	RPM	POWER	ELECTRICAL	NOTES
SF-1	SUPPLY AIR FAN IN MECHANICAL ROOM	68	6.35 mm	1400	51 W	115/1/60	1

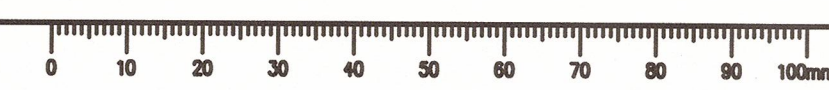
NOTES:
 1. C/W THERMOSTAT

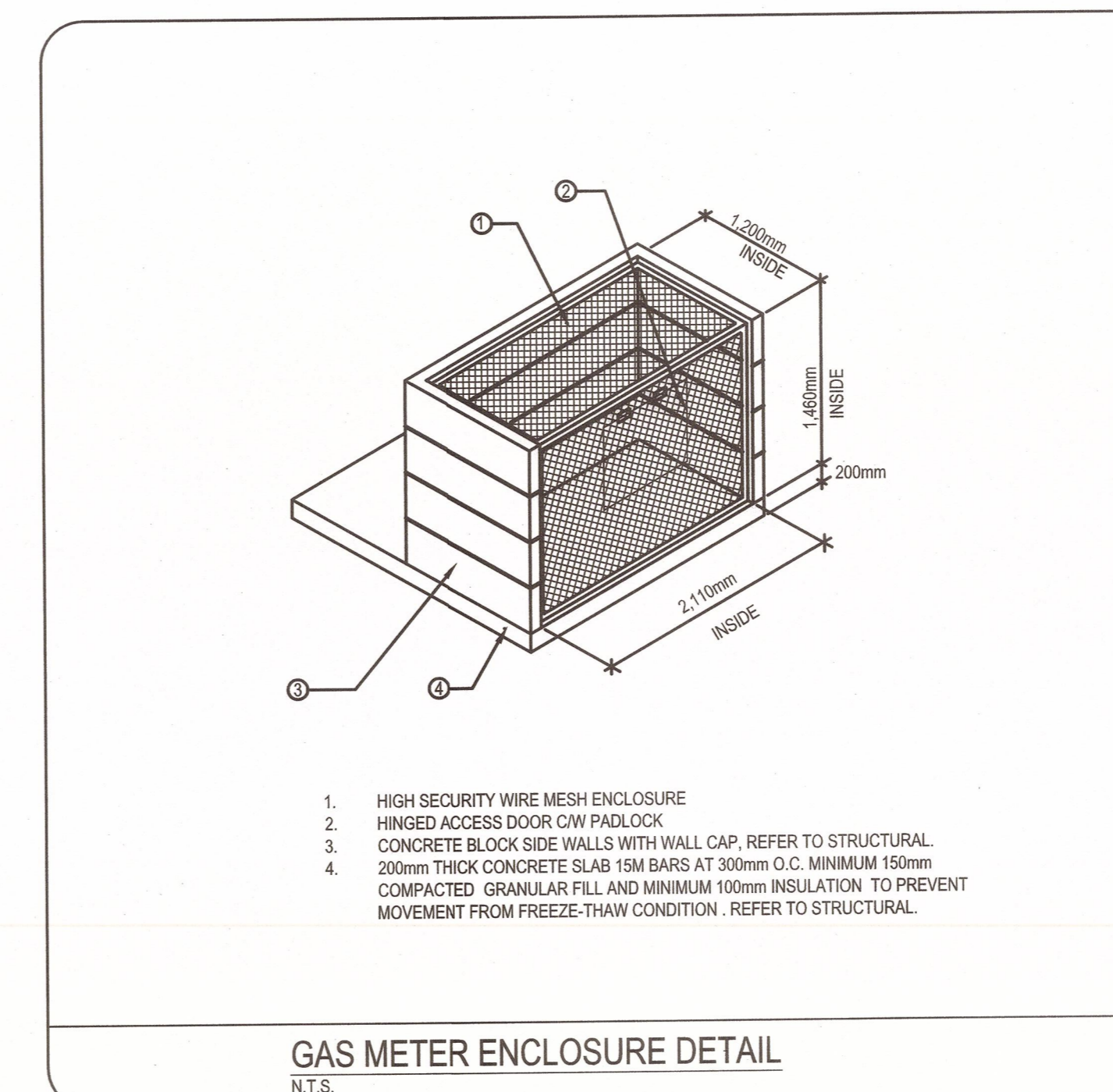
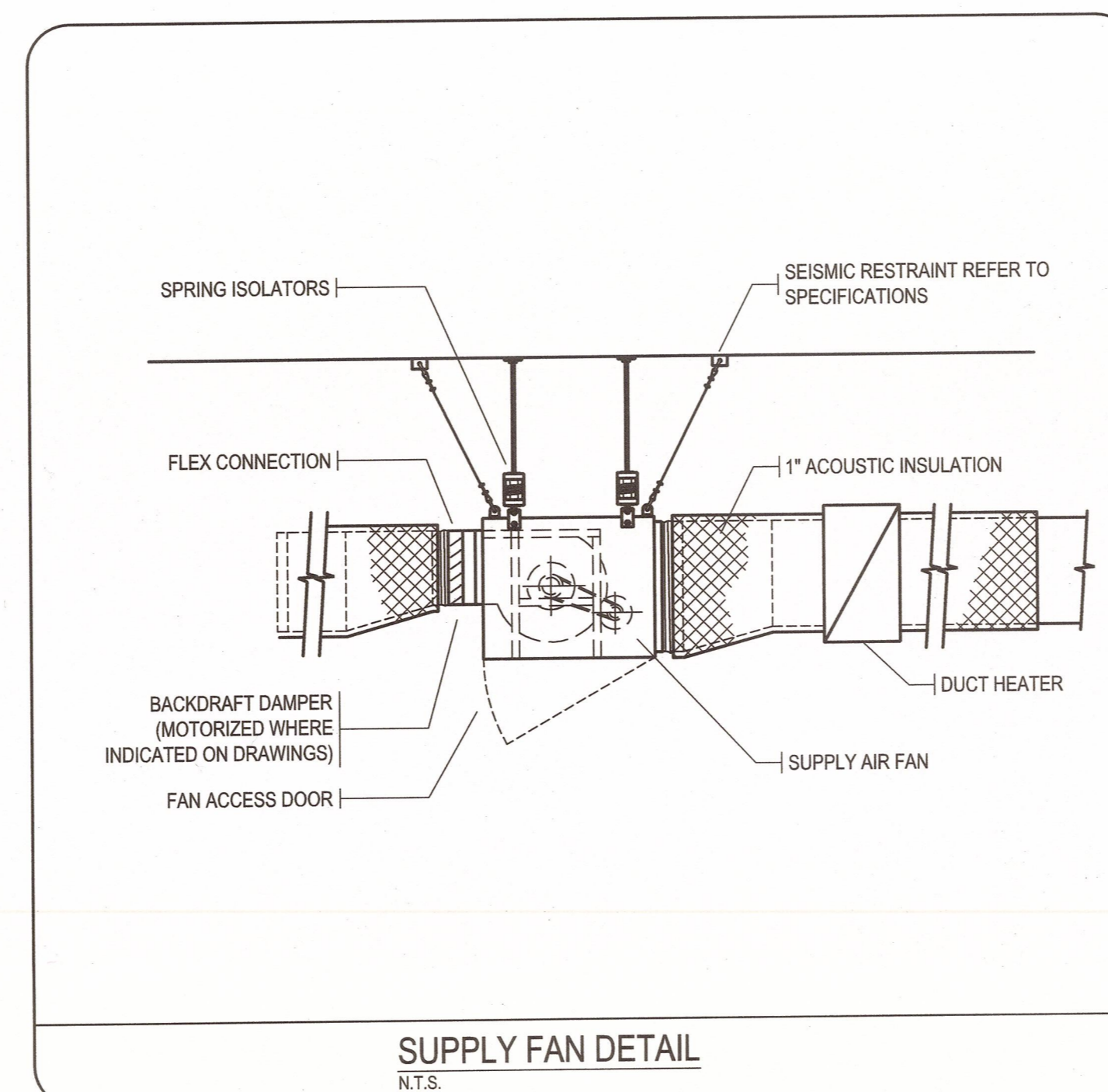
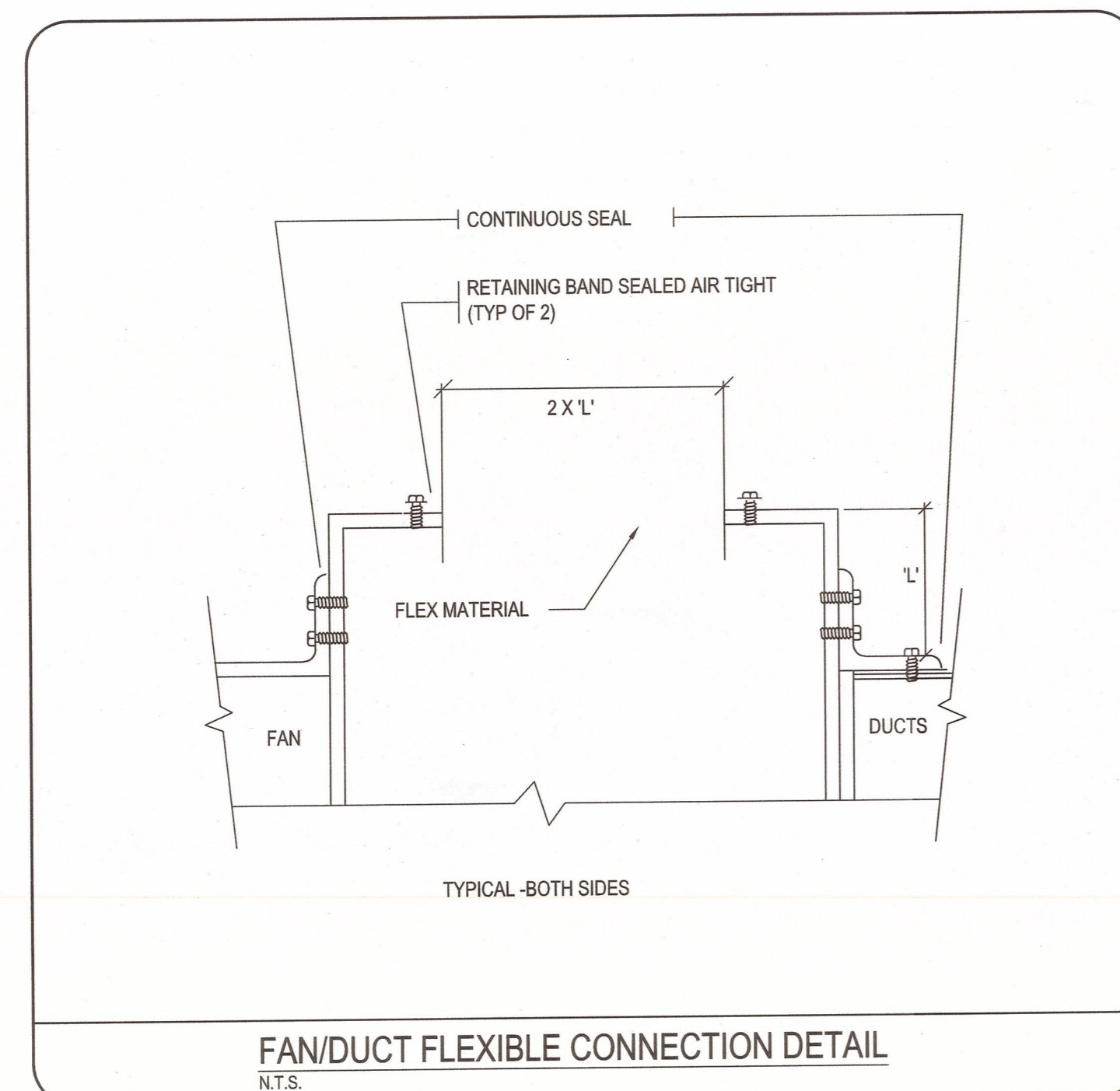
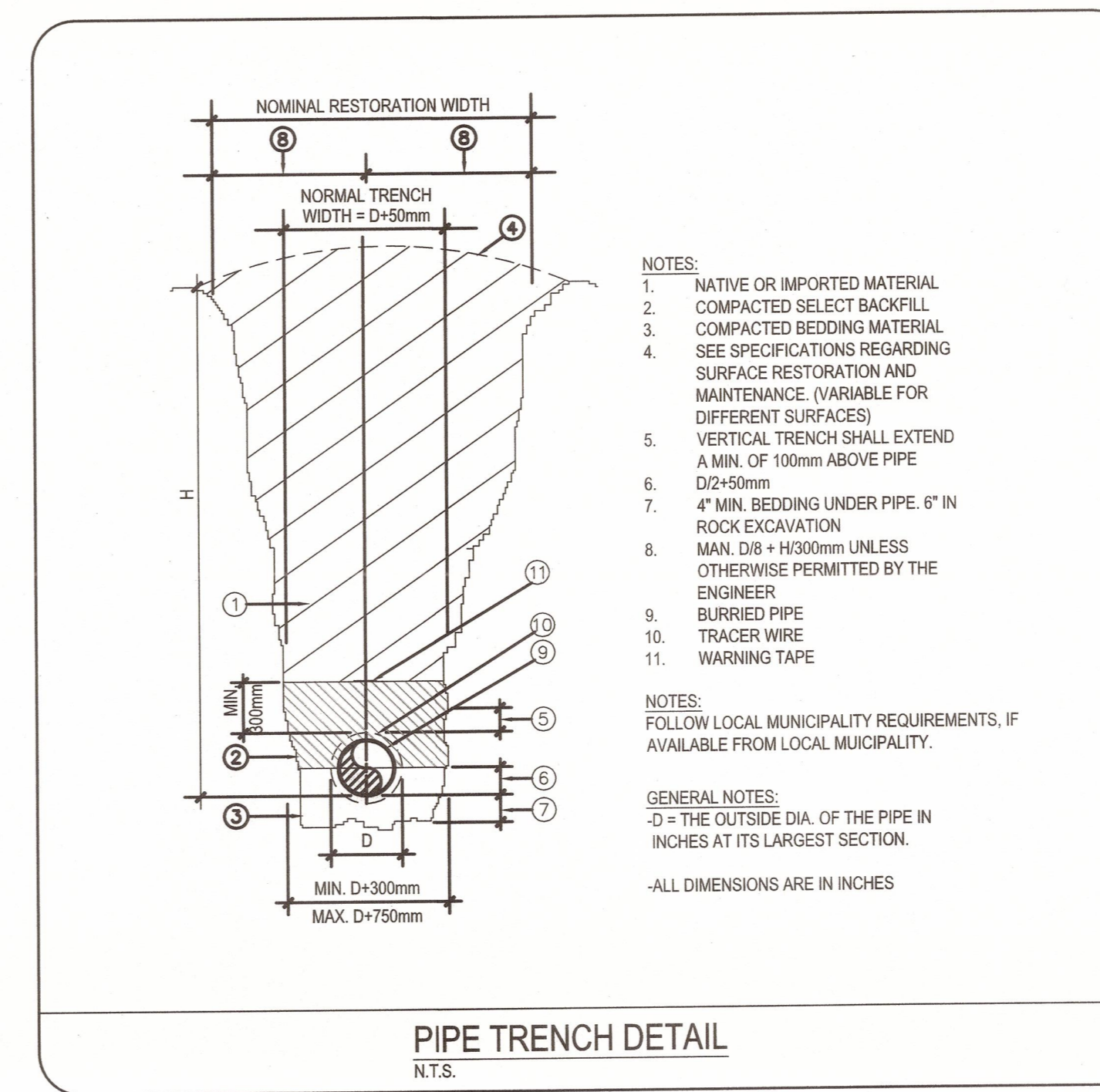
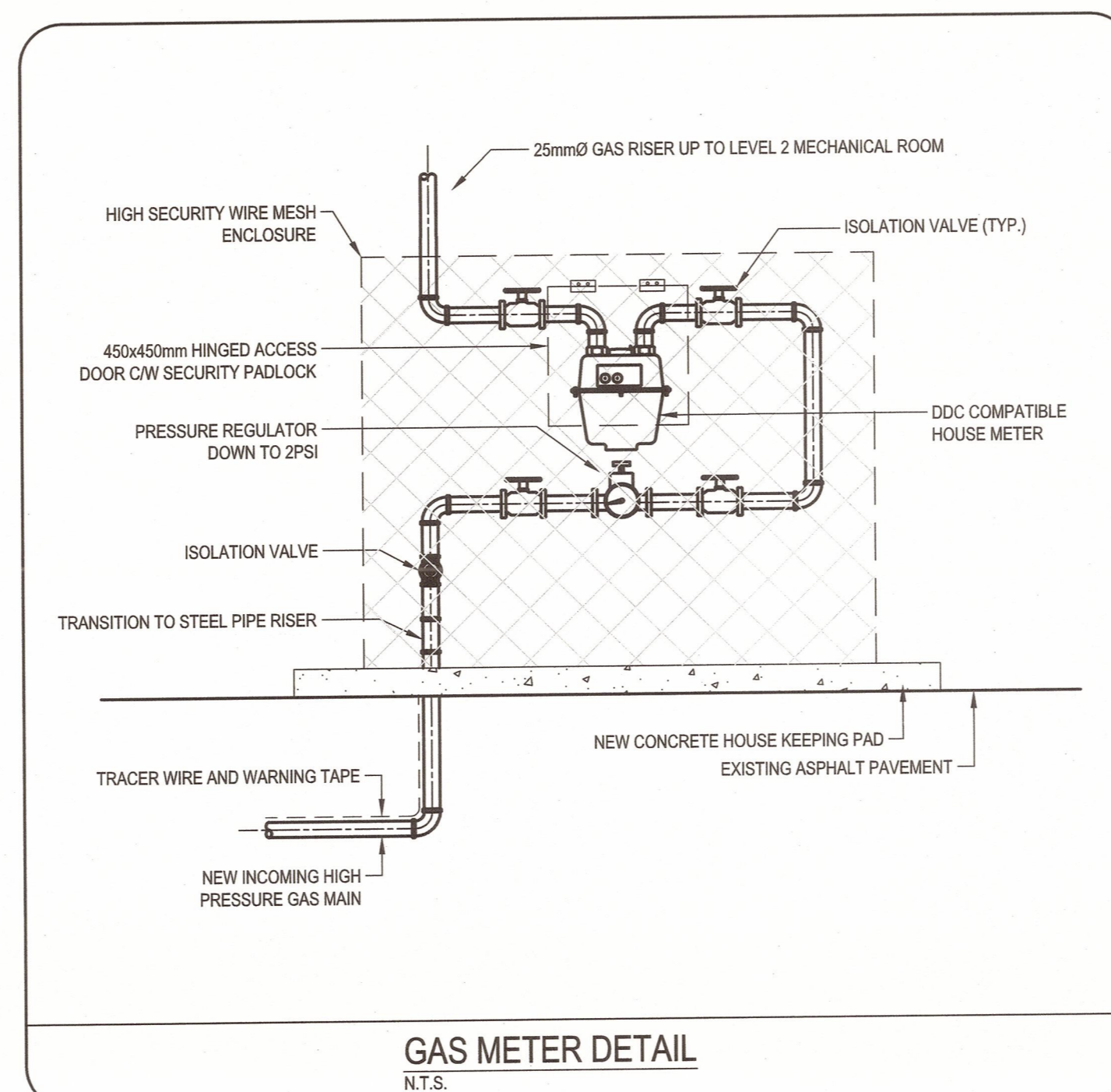
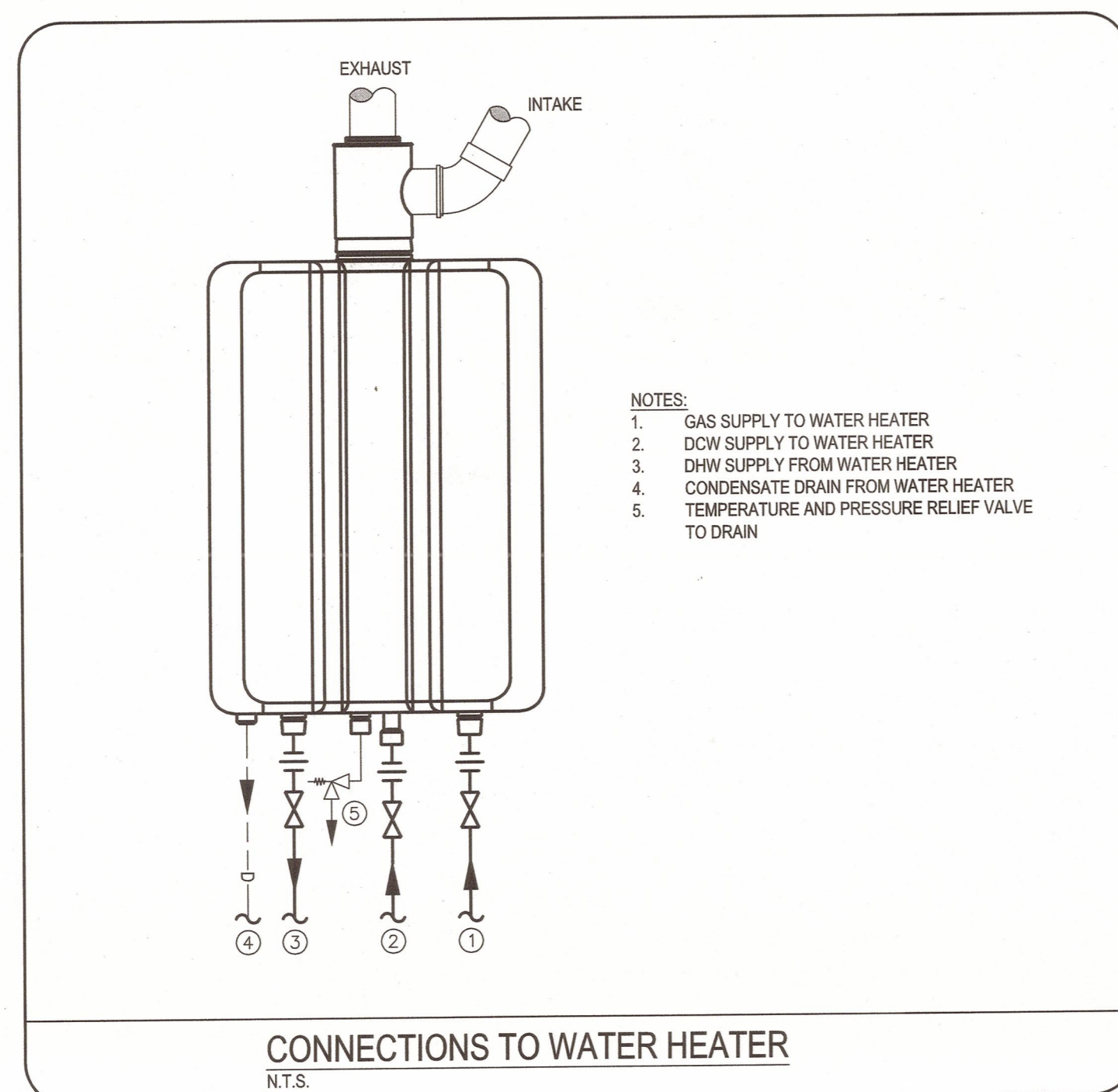


3 DHWT Schematic New (65.5°C)
 M04 N.T.S.

TAG	CONNECTION SIZE	FINISH	MOUNTING	NOTES
L-1	VARIOUS	POWDER	SEAWALL DUCT	REFER TO ARCH FOR COLOR AND DEPTH
SG-1	VARIOUS	POWDER	DUCT	REFER TO ARCH FOR COLOR AND DEPTH

TAG	COLLAR SIZE	POWER	ELECTRICAL	NOTES
DH-1	203mmØ (8"Ø)	3 KW	208/1/60	C/W BUILT-IN ELECTRONIC TEMPERATURE CONTROLLER AND SENSOR





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CORRECTIONAL SERVICE CANADA

Project title/Titre du projet
MATSQUI INSTITUTION ABBOTSFORD, BC

M4 (KITCHEN/DINING) - DOMESTIC HOT WATER TANK REPLACEMENT

Consultant Signature Box Only

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PREETIPAL PAUL

Drawing title/Titre du dessin

MECHANICAL DETAILS

Project No./No. du projet R.082467.001	Sheet/Feuille M06 OF 6	Revision no./ La Révision no. 2
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