

TENDER 2016.06.08

EXISTING BUILDING RENOVATION EDMONTON, ALBERTA

Stantec Project #: 144202775.215

ARCHITECT:

STANTEC ARCHITECTURE LTD.

325 - 25 ST SE
CALGARY, AB
T2A 7H8

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STRUCTURAL ENGINEER:

STANTEC CONSULTING LTD.

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MECHANICAL ENGINEER:

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ELECTRICAL ENGINEER:

STANTEC CONSULTING LTD.

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Notes

KEYNOTES DEMOLITION - A111

KEYNOTE	DESCRIPTION
01	EXISTING SHOOTING BOOTH TO BE DEMOLISHED
02	EXISTING ACOUSTIC WALL TO BE DEMOLISHED
03	EXISTING WALL BAFFLE TO BE DEMOLISHED x 12
04	EXISTING BULLET TRAP TO BE DEMOLISHED
05	EXISTING WINDOW TO BE DEMOLISHED
06	EXISTING MILLWORK & SINK TO BE DEMOLISHED
07	DEMOLISH EXISTING WALL AND PROVIDE 1235w x 1875h ROUGH OPENING
08	EXISTING MILLWORK TO BE DEMOLISHED

KEYNOTES GENERAL - A111

KEYNOTE	DESCRIPTION
01	COMBAT WALL PLATE CONSISTING OF 25mm RUBBER FACING W/ 10mm AR500 ARMOUR BACKING PLATE ON 13mm FIRE RATE PLYWOOD SHEATHING AND FIRE RATED 38x89mm WOOD STRAPPING LAY ON LONG EDGE @ 400mm OC TO EXTEND FROM FIRING LANE TO BULLET TRAP-SIDEWALLS TO 2440mm IN HEIGHT
02	GRANULATED BULLET TRAP SYSTEM

EXIT ACCESS TRAVEL DISTANCE SUMMARY

EXIT ROUTE	TRAVEL DISTANCE (m)
EXIT A	10
EXIT B	30
EXIT C	10
EXIT D	40

Revision

TENDER
Issued

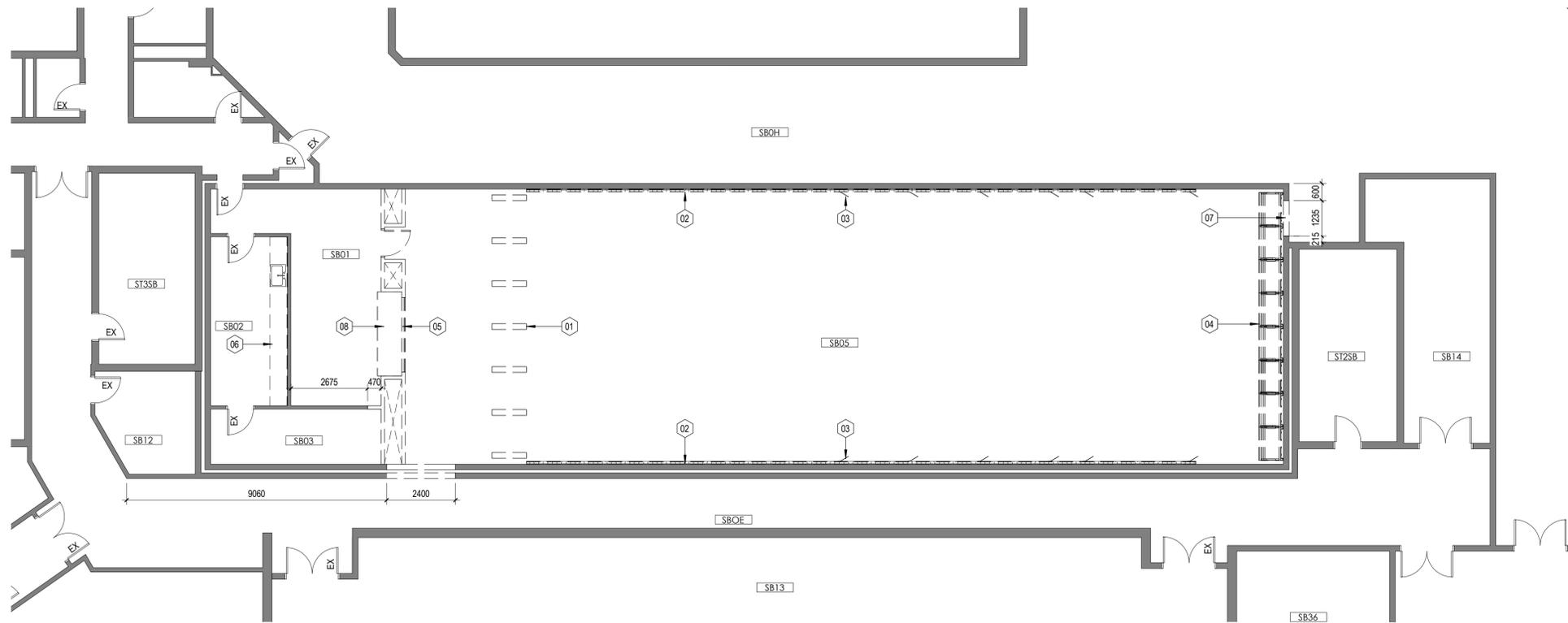
Permit-Seal

Client/Project
GOVERNMENT OF CANADA
EXISTING BUILDING RENOVATION
EDMONTON, ALBERTA
Title
SUB-BASEMENT DEMOLITION & CONSTRUCTION PLANS

Project No. 144202775.215
Revision

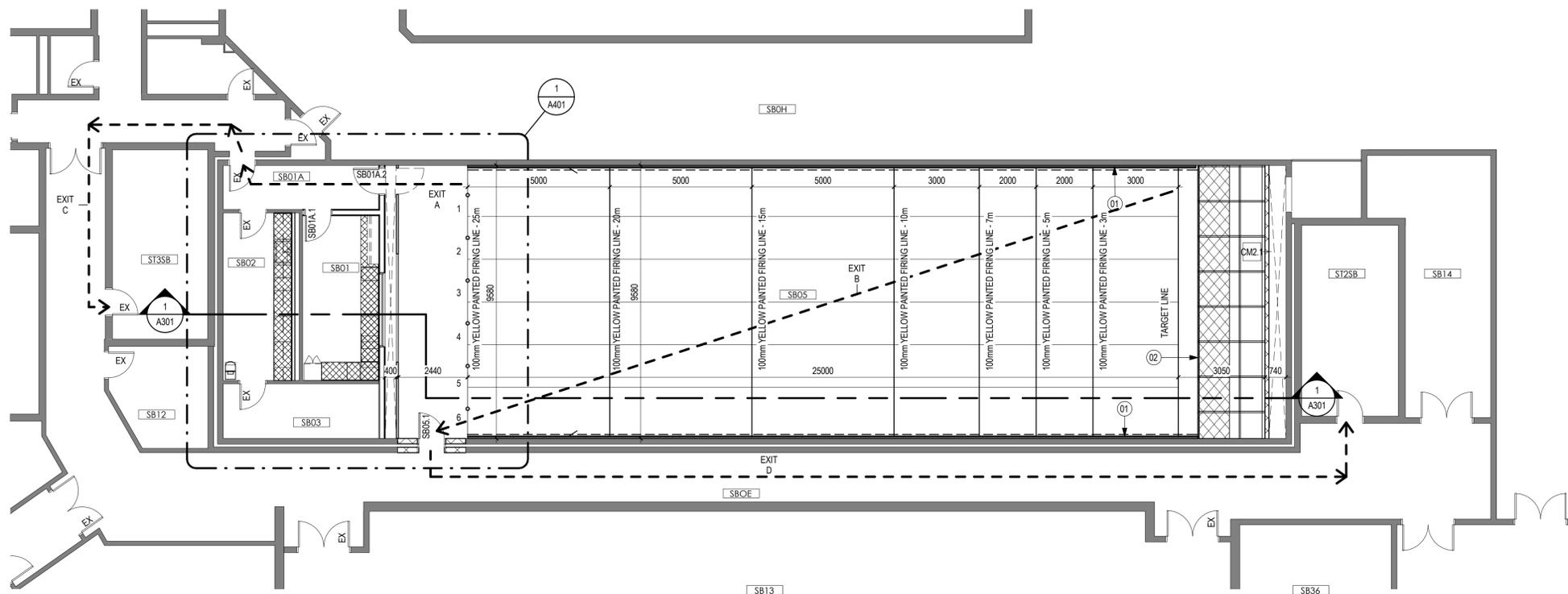
Scale 1 : 100
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Sheet 2 of 7



1 SUB-BASEMENT DEMOLITION PLAN

A111 1 : 100



2 SUB-BASEMENT CONSTRUCTION PLAN

A111 1 : 100

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Notes

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Client/Project
GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

EDMONTON, ALBERTA

Title
ENLARGED PLANS

Project No. 144202775.215 Scale As indicated

Revision _____ Drawing No. _____

Sheet 5 of 7

A401

PARTITION TYPES

- P1 - TYPICAL ACOUSTIC PARTITION**
STC 59 PER ABC TABLE 9.10.3.1A
- 16mm TYPE X GYPSUM BOARD
 - 16mm TYPE X GYPSUM BOARD
 - 152mm STEEL STUDS @ 400mm OC C/W SOUND ATTENUATING BATT INSULATION
 - 16mm TYPE X GYPSUM BOARD
 - 16mm TYPE X GYPSUM BOARD
- P2 - TYPICAL FURRING WALL**
- 16mm TYPE X GYPSUM BOARD
 - 92mm STEEL STUDS @ 400mm OC
- CM1.1 - 190mm CONCRETE MASONRY UNIT PARTITION**
60mm F.R.R. PER ULC DESIGN NO. U905
- 190mm CONCRETE MASONRY UNIT (RUNNING BOND)
- CM2.1 - 140mm CONCRETE MASONRY UNIT PARTITION**
- 140mm CONCRETE MASONRY UNIT (RUNNING BOND)

KEYNOTES GENERAL - A401 & A402

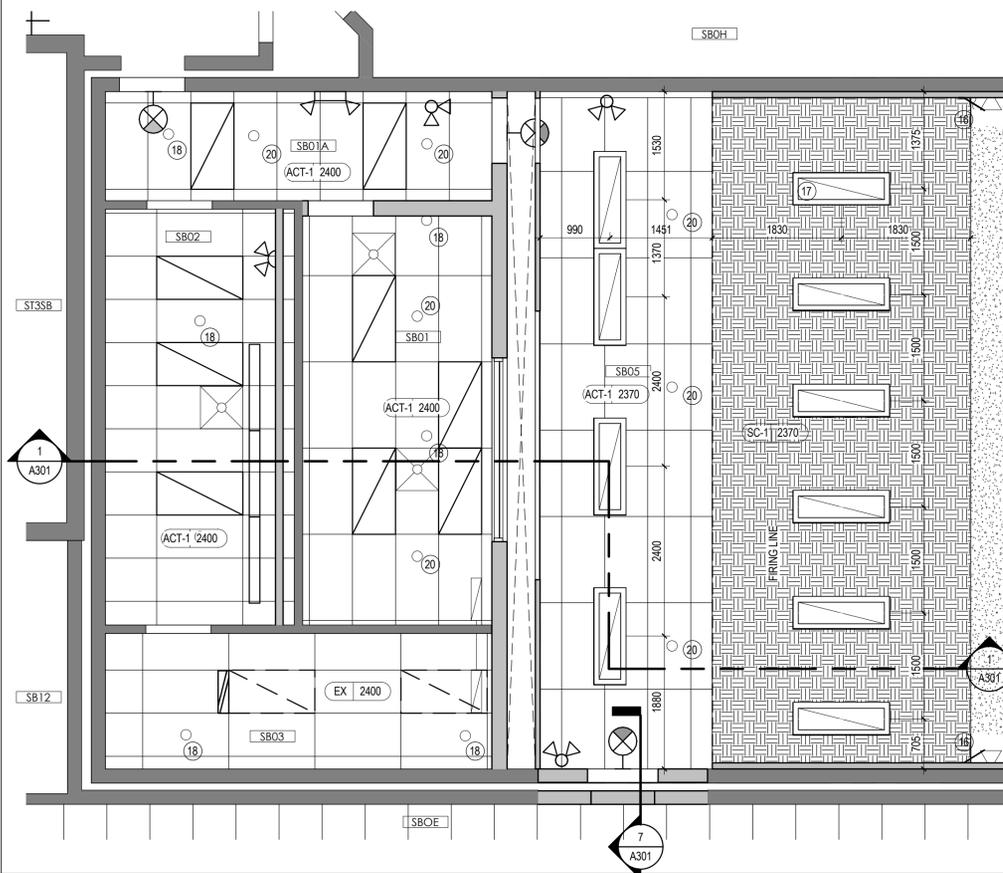
KEYNOTE	DESCRIPTION
01	RECESSED FLOOR SLEEVE PROVIDE AT EACH SHOOTING STATION
02	POSITION OF SHOOTER
03	CONTROL ROOM FIELD OF VIEW
04	STC 55 SOUND CONTROL WINDOW
05	PERFORATED POLYCARBONATE LAMINAR AIR WALL
06	PERFORATED SHEET METAL LAMINAR AIRWALL
07	PATCH AND REPAIR EXISTING FLOOR TO ACCEPT NEW FLOOR FINISH. PROVIDE RES-1 COLOUR TO MATCH EXISTING CORRIDOR. PROVIDE ALL REQUIRED TRANSITIONS BETWEEN MATERIALS
08	GUN CLEANING TRAP
09	TASK SHELF C/W VALENCE LIGHTING
10	EXISTING EXHAUST HOOD TO REMAIN
11	COAT ROD & SHELF
12	BASE TYPICAL
13	AIR COMPRESSOR LOCATED IN CABINET. PROVIDE VENT HOLES IN BOTH DOOR PANELS REFER TO TYPICAL DETAIL
14	TELEVISION NIC
15	COMPUTER STORAGE. PROVIDE VENT HOLES IN DOOR PANEL REFER TO TYPICAL DETAIL
16	EXTENT OF SHOOTING LANE 305mm LONG LIGHT ALCOVE DEFLECTORS FLUSH WITH CEILING FOR SIDEWALL SPRINKLER HEAD PROTECTION (4 TOTAL)
17	SURFACE MOUNTED LIGHT FIXTURE
18	EXISTING SPRINKLER HEAD TO REMAIN
19	COMBAT WALL PLATE CONSISTING OF 25mm RUBBER FACING W/ 10mm AR500 ARMOUR BACKING PLATE ON 13mm FIRE RATED PLYWOOD SHEATHING AND FIRE RATED 38x89mm WOOD STRAPPING LAY ON LONG EDGE @ 400mm OC TO EXTEND FROM FIRING LANE TO BULLET TRAP SIDEWALLS TO 2440mm IN HEIGHT
20	NEW SPRINKLER HEAD
21	SIDE WALL SPRINKLER HEAD
22	GYPSUM BOARD PAINT
23	NEW SINK C/W EYE WASH TRIM

CEILING TYPES

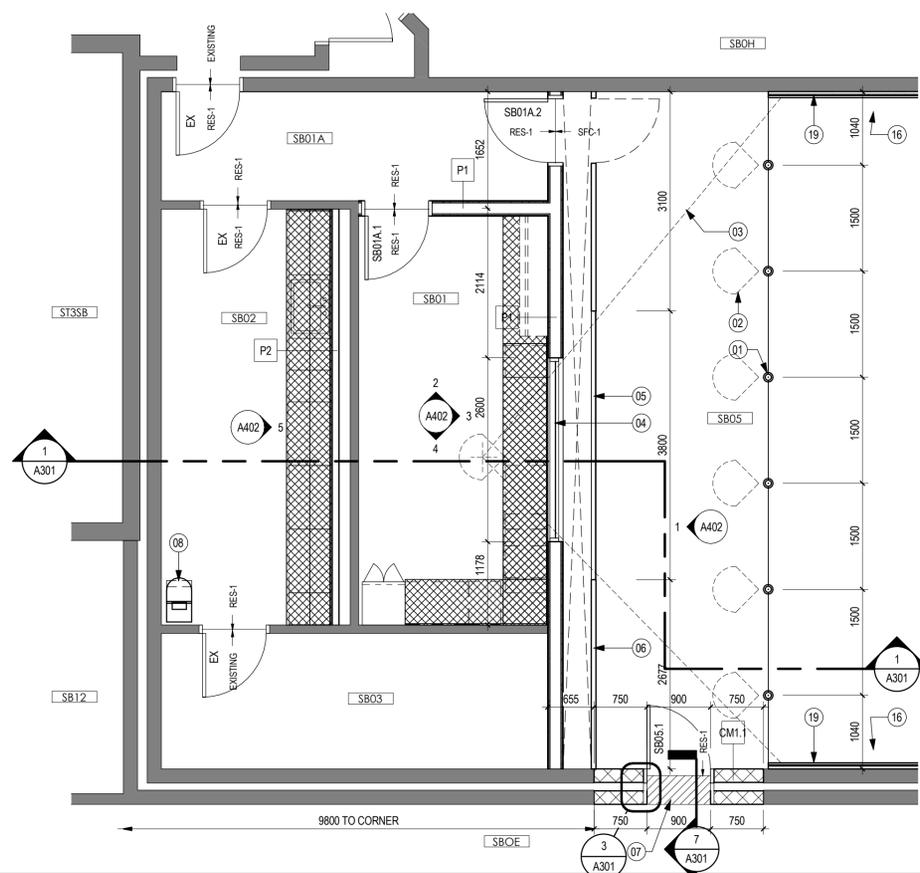
- ACT-1** NEW T-BAR CEILING SYSTEM 610mm x 1220mm ACOUSTIC TILE C/W SUSPENSION SYSTEM
- SC-1** -50mm OPEN CELL FOAM/ACOUSTICAL MATERIAL (AP-1)
-10mm AR500 STEEL ARMOUR PLATE PANEL
-13mm FIRE RATED TREATED PLYWOOD SHEATHING
-38x89mm FIRE RATED TREATED WOOD STRAPPING AT 400mm OC
- SRP-1** -25mmx610mmx610mm SHREDDED RUBBER PLANKS
-19mm FIRE RATED TREATED PLYWOOD SHEATHING
-38x89mm FIRE RATED TREATED WOOD STRAPPING AT 400mm OC

CEILING LEGEND

	ACOUSTIC TILE
	SURFACE MOUNTED OR SUSPENDED FLUORESCENT LUMINAIRE
	RECESSED FLUORESCENT LUMINAIRE
	FLUORESCENT STRIP LUMINAIRE
	WALL MOUNTED LINEAR FLUORESCENT LUMINAIRE
	RECESSED LUMINAIRE / POT LIGHT
	SURFACE MOUNTED OR SUSPENDED LUMINAIRE
	STEP OR WALL MOUNTED LUMINAIRE
	LUMINAIRE ON EMERGENCY CIRCUIT (INDICATED BY HALF SHADING)
	WALL MOUNTED GRILL/REGISTER
	LINEAR DIFFUSER
	CEILING SUPPLY DIFFUSER
	AIR FLOW ARROWS
	GAS FIRED UNIT HEATER
	CEILING EXHAUST GRILLE



2 ENLARGED REFLECTED CEILING PLAN
A401 1:50



1 ENLARGED FLOOR PLAN
A401 1:50

RESERVED

DESIGN NOTES

GENERAL

- 1. ALL CODES REFERENCED ARE TO BE THE LATEST VERSION AT THE DATE OF ISSUE. DESIGN IS BASED ON THE NATIONAL BUILDING CODE 2010.
2. READ THESE DESIGN NOTES IN CONJUNCTION WITH THE CONTRACT SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS.
3. OBTAIN ENGINEER'S APPROVAL BEFORE CUTTING, BORING, OR SLEEVING LOAD-BEARING MEMBERS UNLESS NOTED OTHERWISE.
4. THE STRUCTURAL DRAWINGS ARE FOR THE COMPLETED PROJECT. STABILITY OF THE EXISTING AND NEW STRUCTURE DURING CONSTRUCTION REMAINS THE RESPONSIBILITY OF THE CONTRACTOR.
5. REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR SMALL OPENINGS, SLEEVES, RECESSES, DEPRESSIONS, SUMPS, TRENCHES, CURBS, HOUSEKEEPING PADS, EQUIPMENT BASES, AND SLOPES NOT INDICATED ON THE STRUCTURAL DRAWINGS.
6. OPENINGS AND SLEEVES INDICATED ON THE STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY. COORDINATE ALL OPENING LOCATIONS AND DIMENSIONS WITH THE APPROPRIATE CONSULTANT AND THE SUB-CONTRACTOR PRIOR TO CONSTRUCTION.
7. REVIEW ALL DRAWINGS AND CHECK DIMENSIONS PRIOR TO IMPLEMENTING THE WORK. REPORT ANY DISCREPANCIES TO THE CONSULTANT FOR CLARIFICATION BEFORE PROCEEDING.
8. COORDINATE PLACEMENT AND LOCATION OF ITEMS BY SUBSEQUENT TRADES. RELEVANT TRADES SHALL REVIEW PRIOR TO ERECTION AND/OR INSTALLATION.
9. NOTIFY THE ENGINEER A MINIMUM OF 48 HOURS PRIOR TO ANY SITE REVIEWS.

EXISTING STRUCTURES

- 1. THE STRUCTURAL DESIGN IS BASED ON INFORMATION GATHERED FROM THE RECORD DRAWINGS AND FROM LIMITED VISUAL OBSERVATIONS ON SITE.
2. VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS ON SITE PRIOR TO IMPLEMENTING AFFECTED WORK.
3. NOTIFY THE CONSULTANT OF ANY SITE CONDITIONS THAT DIFFER FROM THE CONTRACT DOCUMENTS OR THE RECORD DRAWINGS.
4. SHORE AND UNDERPIN EXCAVATIONS AS REQUIRED TO PREVENT DISTURBANCE TO ADJACENT STRUCTURES, STREETS, SIDEWALKS AND UTILITIES.

DESIGN LOADS

- 1. UNLESS NOTED OTHERWISE, THE LOADS NOTED IN TABLES AND ON DRAWINGS ARE UNFACTORED.
2. CLIMATIC INFORMATION REFER TO CLIMATIC INFORMATION TABLE
3. SITE INFORMATION REFER TO SITE INFORMATION TABLE
4. DESIGN LOADS REFER TO DESIGN LOADS TABLE
5. LATERAL LOADS

- 5.1. LATERAL LOADS FROM WIND AND SEISMIC LOADS ARE RESISTED BY THE MASONRY SHEAR WALLS.
5.2. SEE FORCE MODIFICATION FACTORS TABLE.
6. CONSTRUCTION LOADS SHALL NOT EXCEED THE LOADS NOTED ON THE DRAWINGS.
7. RAIN PONDING LOADS HAVE BEEN CALCULATED BASED ON ROOF SLOPES, PARAPETS, AND SCUPPERS ASSUMING THAT DRAINS ARE ACCIDENTALLY PLUGGED FOR A PERIOD OF 24 HOURS.
8. WHERE PERMISSIBLE, LIVE LOADS HAVE BEEN REDUCED IN ACCORDANCE WITH THE NATIONAL BUILDING CODE 2010.

DELEGATED DESIGN

- 1. PORTIONS OF THE DETAILED DESIGN ARE DELEGATED TO THE CONTRACTOR, RETAIN A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ALBERTA TO COMPLETE THE DESIGN.
2. SUBMIT SHOP DRAWINGS FOR COMPONENTS REQUIRING DELEGATED DESIGN UNDER THE SEAL AND SIGNATURE OF THE ENGINEER RESPONSIBLE FOR THE DESIGN.
3. THE FOLLOWING COMPONENTS REQUIRE DELEGATED DESIGN:
3.1. MORTAR, GROUT, AND CONCRETE MIX DESIGNS
3.2. CONNECTIONS TO BAFFLES
4. THE ENGINEER RESPONSIBLE FOR THE DESIGN IS ALSO RESPONSIBLE FOR REVIEW OF FABRICATION AND INSTALLATION OF THE COMPONENTS. UPON COMPLETION OF THE WORK, CERTIFY IN WRITING TO THE CONSULTANT THAT SUCH REVIEW HAS BEEN COMPLETED.
5. REFER TO SPECIFICATIONS FOR FURTHER REQUIREMENTS.

CAST-IN-PLACE REINFORCED CONCRETE

- 1. CONCRETE MATERIALS, QUALITY, MIXING, PLACING, FORMWORK AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CSA-A23.1.
2. SUPPLY CONTROLLED CONCRETE IN ACCORDANCE WITH CSA-A23.1 WITH PROPERTIES NOTED IN CONTROLLED CONCRETE TABLE.
3. USE TYPE GU CEMENT FOR ALL CONCRETE UNLESS NOTED OTHERWISE IN CONTROLLED CONCRETE TABLE.
4. MAXIMUM FLY ASH CONTENT NOT TO EXCEED 25% OF THE TOTAL CEMENTITIOUS MATERIAL EXCEPT FOR FOOTINGS, PILES, COLUMNS, WALLS, GRADE BEAMS MAXIMUM 40%.
5. NOTIFY CONSULTANT 48 HOURS PRIOR TO CONCRETE PLACEMENT TO ALLOW FOR REVIEW OF REINFORCEMENT.
6. DO NOT USE ADMIXTURES CONTAINING CALCIUM CHLORIDE.
7. FOR FLOOR SLABS, DESIGN THE CONCRETE MIX WITH AGGREGATE GRADING AND WATER TO CEMENTING MATERIALS RATIO TO MINIMIZE SHRINKAGE.
8. FIELD AND LABORATORY TESTING OF CONCRETE TO BE COMPLETED BY A THIRD PARTY TESTING AND INSPECTION AGENCY APPROVED BY AND RESPONSIBLE TO THE ENGINEER. TESTING AGENCY SHALL BE CERTIFIED TO CSA-A283 AND TESTING TO BE COMPLETED IN ACCORDANCE WITH CSA-A23.2. TESTING PAID FOR BY CONTRACTOR.
9. CONCRETE GROUT TO BE MINIMUM 35 MPa AT 28 DAYS. SUBMIT PRODUCT TO THE ENGINEER FOR APPROVAL. PRE-APPROVED PRODUCT OT BE SIKA 222.

STRUCTURAL STEEL

- 1. DESIGN, FABRICATION, ERECTION, AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CSA-S16 AND THE CISC CODE OF STANDARD PRACTICE FOR STRUCTURAL STEEL.
2. STEEL TO BE FABRICATED AND ERECTED BY A SHOP CERTIFIED BY THE CANADIAN WELDING BUREAU TO THE REQUIREMENTS OF CSA-W47.1, DIVISION 1 OR 2.1 ONLY.
3. SUBMIT SHOP DRAWINGS SHOWING ALL STRUCTURAL STEEL MEMBERS FOR REVIEW PRIOR TO FABRICATION, WELDING TO CONFORM TO CSA-W59.
4. SHOP GALVANIZING TO CONFORM TO CAN/CSA-G164.
5. ALL EXPOSED WELDS TO BE CONTINUOUS, GRIND ALL EXPOSED WELDS SMOOTH, INCLUDING THE PAINTED STEEL.
6. SUPPLY STEEL WITH PROPERTIES NOTED IN STEEL GRADES TABLE.
7. CONNECTIONS NOT DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED AND DETAILED BY A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE PROVINCE OF ALBERTA AT THE STEEL FABRICATOR'S EXPENSE.
8. UNLESS NOTED OTHERWISE, DESIGN CONNECTIONS FOR NON-COMPOSITE BEAMS FOR A FACTORED SHEAR FORCE EQUAL TO 50% OF THE TOTAL BEAM LOAD TABULATED IN THE CISC HANDBOOK OF STEEL CONSTRUCTION.
9. PROVIDE A MINIMUM OF 2 BOLTS IN BOLTED CONNECTIONS.
10. ALL BOLTED CONNECTIONS TO USE SNUG-TIGHTENED HIGH-STRENGTH BOLTS.
11. PROVIDE 10mm PLATE STIFFENERS EACH SIDE OF BEAM WHERE AT ALL BEARING CONNECTIONS UNLESS OTHERWISE NOTED ON THE DRAWINGS.
12. DO NOT SPLICE MATERIAL WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER, WHERE GRANTED, A COMPLETE NON-DESTRUCTIVE EXAMINATION WILL BE MANDATORY AND PAID FOR BY THE SUB-CONTRACTOR.
13. PROVIDE 10mm WEEP HOLES AT TOP AND BOTTOM OF ALL HSS COLUMNS.
14. PROVIDE CAP PLATE FOR ALL HSS COLUMNS.
15. ALL GROUT UNDER BEARING PLATES AND BASE PLATES SHALL BE NON-METALLIC, NON-SHRINK TYPE WITH MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 50MPa, INSTALLED IN ACCORDANCE WITH THE SPECIFICATION AND MANUFACTURER'S RECOMMENDATIONS. PROVIDE GROUT WEEP HOLES IN COLUMN BASE PLATES WHERE SHOWN.
16. SQUARE CUT OR FULL STRENGTH WELD ALL COLUMNS AT BASE PLATES AND AT TOP WHERE BEARING UNDER CONTINUOUS BEAMS.
17. REFER TO SPECIFICATION 05 50 00 FOR FINISHING.
18. SHOP AND FIELD INSPECTION OF STEEL FABRICATION AND ERECTION TO BE COMPLETED BY A THIRD PARTY TESTING AND INSPECTION AGENCY APPROVED BY AND RESPONSIBLE TO THE ENGINEER. TESTING AGENCY SHALL BE CERTIFIED TO CSA-W178. TESTING PAID FOR BY OWNER.

MASONRY

- 1. DESIGN, FABRICATION, ERECTION, AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO CSA-S304.1 AND CAN/CSA-A371.
2. CONCRETE BLOCK TO CONFORM TO CAN/CSA-A165 WITH A MINIMUM COMPRESSIVE STRENGTH OF 15 MPa BASED ON THE NET CROSS-SECTIONAL AREA OF THE UNITS WITH VOIDS.
3. MASONRY WALLS TO BE RUNNING BOND UNLESS NOTED OTHERWISE.
4. FILL CELLS CONTAINING VERTICAL REINFORCEMENT WITH CONCRETE DESIGNATED AS MASONRY COREFILL, SEE MASONRY TABLE. SITE MIXING OF CONCRETE NOT PERMITTED FOR EXTERIOR OR LOAD-BEARING WALLS.
5. PUDDLE OR VIBRATE MASONRY COREFILL IN LIFTS NOT EXCEEDING 1200mm.
6. FORM HORIZONTAL JOINTS BY STOPPING POUR 40mm BELOW THE TOP OF UNIT.
7. USE ONLY TYPE S MORTAR CONFORMING TO CSA-A179. DO NOT USE MASONRY CEMENT. USE PORTLAND CEMENT AND LIME ONLY.
8. PROVIDE CLEAN-OUT OPENINGS AT THE BOTTOM OF EACH LIFT FOR ALL CELLS BEING FILLED. THE INSIDE OF THE CELL IS TO BE FREE FROM DEBRIS AND OBSTRUCTION.
9. HORIZONTAL JOINT REINFORCEMENT TO CONFORM TO ASTM A185/A185M. PROVIDE CONTINUOUS REINFORCEMENT CONSISTING OF 2 - 9 GAUGE DIAMETER WIRE LADDER TYPE REINFORCEMENT WITH WELDED CROSS-TIES AT A VERTICAL SPACING OF 400mm FOR RUNNING BOND.
10. ALTERNATE HORIZONTAL JOINT REINFORCING TO BOND ADJOINING WALLS.
11. EXTEND VERTICAL REINFORCEMENT TO WITHIN 50mm OF TOP OF WALLS.
12. PROVIDE VERTICAL DOWELS INTO SUPPORTING CONCRETE TO MATCH BLOCK WALL REINFORCEMENT.
13. PROVIDE 400mm DEEP BOND BEAMS REINFORCED WITH 2-15M TOP AND BOTTOM AT THE TOPS OF ALL WALLS AND AT 2400mm VERTICAL SPACING. USE SPECIAL BOND BEAM UNITS TO PROVIDE CONTINUITY OF HORIZONTAL REINFORCEMENT. LAP SPLICE 800mm MINIMUM. PROVIDE CORNER BARS AT WALL INTERSECTIONS.
14. PROVIDE VERTICAL REINFORCEMENT AS NOTED IN MASONRY WALL REINFORCEMENT TABLE UNLESS NOTED OTHERWISE ON DRAWINGS. PROVIDE ADDITIONAL COREFILLS WITH DESIGNATED REINFORCEMENT AT ENDS OF WALLS, WALL INTERSECTIONS, CORNERS, AND EACH SIDE OF WINDOW OPENING, DOOR OPENINGS, CONTROL JOINTS, AND UNDER ALL LOAD BEARING ELEMENTS.
15. PROVIDE MASONRY LINTELS ABOVE OPENINGS AS NOTED IN MASONRY LINTEL REINFORCEMENT TABLE. USE 400mm DEEP LINTEL BLOCKS FOR 2 COURSE LINTELS. USE A 400mm DEEP LINTEL BLOCK WITH AN UPSIDE DOWN BOND BEAM BLOCK ON TOP FOR 3 COURSE LINTELS. USE A 400mm DEEP LINTEL BLOCK WITH TWO UPSIDE DOWN BOND BEAM BLOCK ON TOP FOR 4 COURSE LINTELS. LINTELS TO CONTINUE MINIMUM 400mm PAST EACH SIDE OF OPENINGS. BLOCK VOIDS BELOW BEARING ENDS TO BE CORE FILLED AND REINFORCED WITH 2 - 15M BARS IN EACH CORE (MIN TWO CORES EACH END), EXTEND VERTICALLY INTO LINTELS UNLESS NOTED OTHERWISE.
16. REINFORCEMENT SPLICES - REFER TO MASONRY LAP SPLICES TABLE.
17. INSTALL VERTICAL CONTROL JOINTS AT 9000mm MAXIMUM. LOCATE JOINTS AT LATERAL SUPPORTS PROVIDED BY COLUMNS, PILASTERS, CORNERS, AND INTERSECTING WALLS.

CLIMATIC INFORMATION

Table with 2 columns: Parameter (e.g., SNOW LOAD (1/50), Ss), Value (e.g., 1.7 kPa). Includes wind pressure and rain data.

SITE INFORMATION

Table with 2 columns: Parameter (e.g., IMPORTANCE CATEGORY, WIND EXPOSURE TYPE), Value (e.g., HIGH, OPEN TERRAIN).

STANDARD STRUCTURAL DRAWING ABBREVIATIONS

Large table mapping abbreviations (e.g., A.B. or A.BOLT, ANCHOR BOLT, LOC, LOCATION) to their full names.



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Legend

Notes

Revision table with columns: Revision, By, Appd, YYYY.MM.DD. Includes TENDER and Issued entries.

Permit-Seal

Professional Engineer Seal for Stantec Consulting Ltd., signed by P. Chig, dated 08-Jun-2016. Includes permit number P 0258.

Client/Project

GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

EDMONTON, ALBERTA

Title

DESIGN NOTES

Project No. 144202775.215, Scale 1:1, Revision, Drawing No.

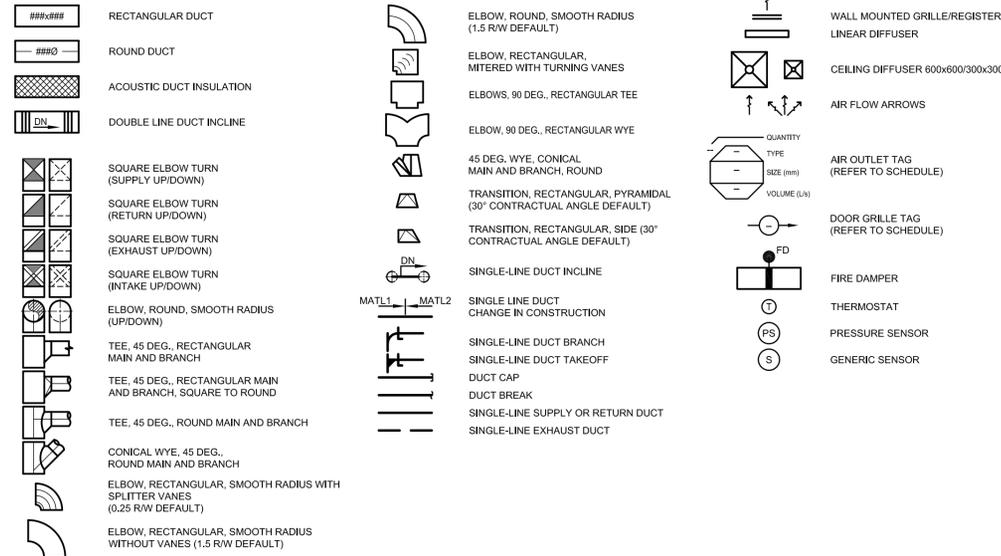
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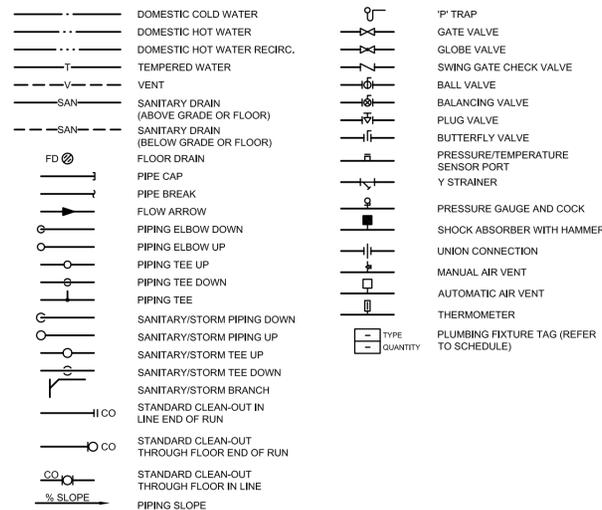
S001

DRAWING No.	DRAWING NAME	SCALE
M001	MECHANICAL LEGEND, SCHEDULES & DRAWING LIST	N.T.S.
M101	SUB-BASEMENT - MECHANICAL DEMOLITION & RENOVATION PLANS	1:100
M102	SUB-BASEMENT - PLUMBING & FIRE PROTECTION PLAN & SECTION	AS NOTED
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M301	MECHANICAL DETAILS	N.T.S.
M302	MECHANICAL DETAILS	N.T.S.

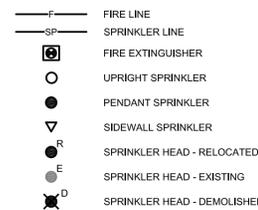
HVAC SYMBOLS



PIPING IDENTIFICATION AND SYMBOLS



FIRE PROTECTION



ABBREVIATIONS

EQUIPMENT	SYMBOL
EXHAUST FAN	EF*
SUPPLY FAN	SF*
PLUMBING FIXTURES	SYMBOL
HUB DRAIN	HD*
EMERGENCY EYEWASH	EW*
COMMON	SYMBOL
ABOVE FINISHED FLOOR	A.F.F.
COMPLETE WITH ELEVATION	CW
INVERT	INV.
SANITARY	SAN
STORM	ST

PLUMBING FIXTURE SCHEDULE

FIXTURE TAG	TYPE	FIXTURE CONNECTIONS (mm)					DESCRIPTION
		DCW	DHW	DTHW	DRAIN	VENT	
EMERGENCY EYEWASH							
EW-1	EMERGENCY EYEWASH	15	15	15	-	-	BRADLEY MODEL S19-270C SWING-ACTIVATED EYE/FACE WASH, 20" SIDE-SWING ACTIVATION, ANTI-ROTATIONAL DECK MOUNT, CHROME PLATED BRASS SPRAYHEAD ASSEMBLY WITH TWIN SOFT FLOW EYEWASH HEADS AND PROTECTIVE SPRAY HEAD COVERS, INTEGRAL FLOW CONTROL, CERAMIC 15mm (1/2") STAY OPEN VALVE, CHROME PLATED BRASS PIPE AND FITTINGS, MEETS REQUIREMENTS OF ANSI Z358.1, BRADLEY MODEL S19-2000 EMERGENCY THERMOSTATIC MIXING VALVE, LIQUID FILLED THERMOSTAT, ADJUSTABLE SET POINT WITHIN TEMPERATURE RANGE, CHECKSTOPS ON INLETS, BUILT-IN COLD WATER BYPASS, DIAL THERMOMETER, MEETS ANSI Z358.1 REQUIREMENTS; SURFACE MOUNTED STAINLESS STEEL CABINET, 18 GAUGE BODY & DOOR, CYLINDER LOCK.
DRAINS							
HD-1	HUB DRAIN	-	-	-	100	-	WATTS FD-100-C-DD EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, REVERSIBLE MEMBRANE CLAMP WITH PRIMARY AND SECONDARY WEEPHOLES, ADJUSTABLE NICKEL BRONZE HUB FUNNEL AND NO HUB (MJ) OUTLET.

AIR COMPRESSOR SCHEDULE

TAG No.	LOCATION	MANUFACTURER	MODEL No.	TANK SIZE (L)	TANK CONFIGURATION	CAPACITY @ 620 kPa (L/s)	MAX. PRESS. (kPa)	MOTOR (kW)	V/Ph/Hz	ACCESSORIES & REMARKS
AC-01	SB02	PORTER CABLE	C2002	23	PANCAKE	1.23	1034	0.60	120/1/60	C/W QUICK COUPLING, FLEXIBLE HOSE & BLOW GUN

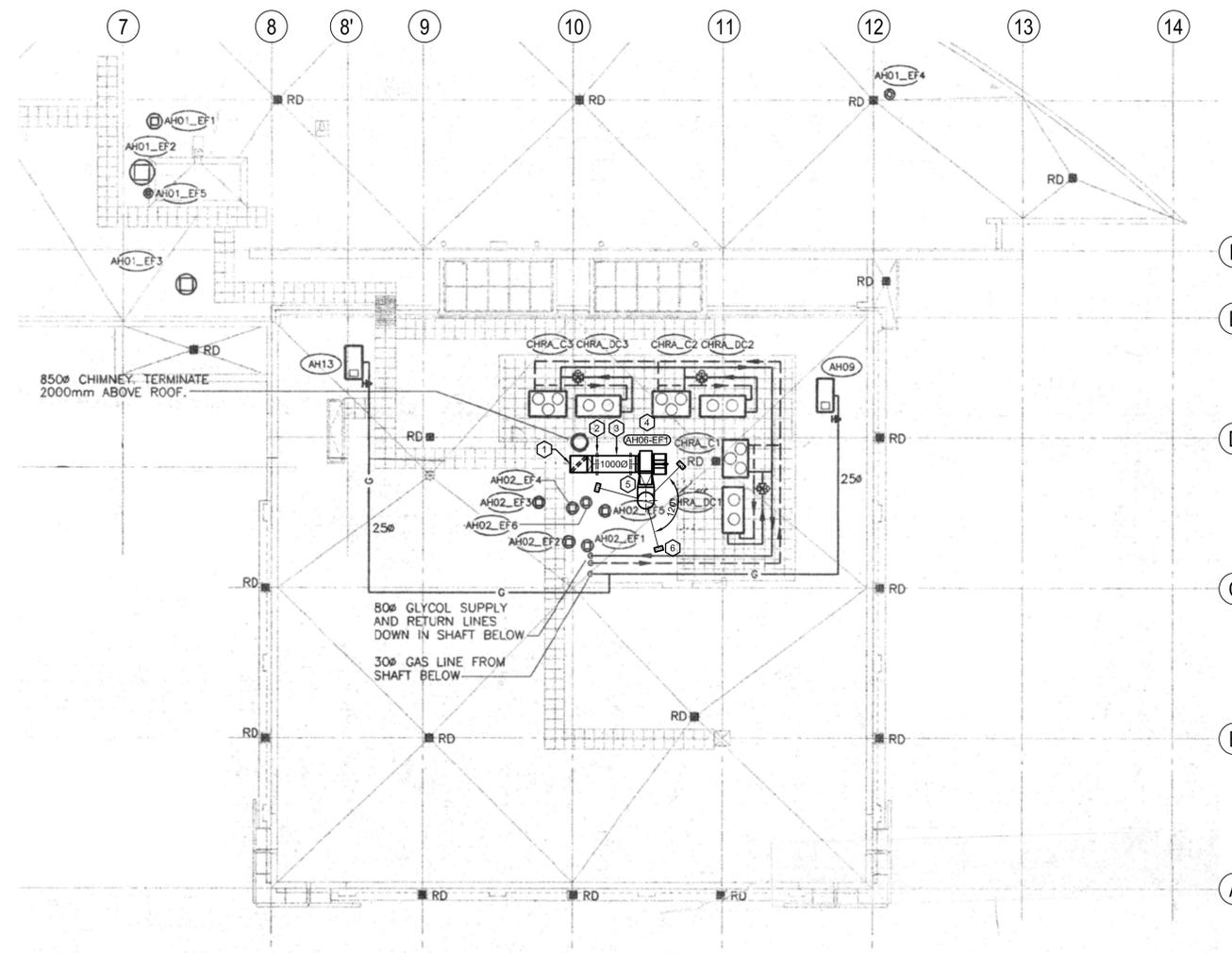
FAN SCHEDULE

TAG No.	MANUFACTURER	MODEL No.	SERVICE	TYPE	MOUNTING ARRANGEMENT	AIR FLOW (L/s)	EXT. STATIC PRESS. (Pa)	ELECTRICAL				SONES	REMARKS
								MOTOR (kW)	MOTOR RPM	V/Ph/Hz	VFD (Y/N)		
AH06-EF	GREENHECK	36-CSW-AF-21-104I-400	RANGE	SINGLE WIDTH CENTRIFUGAL	BASE MOUNTED	11,328	1,555	29.8	1366	575/3/60	Y	61	FAN TO BE SUITABLE FOR EXTERIOR INSTALLATION; DISCHARGE POSITION - BAU; OPERATION INTERLOCKED WITH AH06



PLAN 1 - KEY NOTES

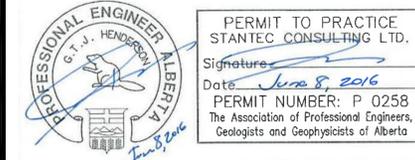
- 1 REMOVE EXISTING EXHAUST AIR DUCT TERMINATION. PROVIDE NEW 1000x1000 EXHAUST AIR DUCT SEALED WEATHER TIGHT.
- 2 CONNECT NEW 1000x1000 EXHAUST AIR DUCT TO NEW 1000x1000 EXHAUST AIR FROM BELOW.
- 3 1000x1000 EXHAUST AIR DUCT CW THERMAL INSULATION AND ALUMINUM JACKING. DUCT TO BE SUPPORTED FROM THE ROOF AS PER SMACNA GUIDELINES.
- 4 EXHAUST FAN AH06-EE1 TO BE INSTALLED ON SLEEPERS.
- 5 1000x1000 DISCHARGE FROM EXHAUST FAN. TOP OF DUCT TO TERMINATE 3000mm ABOVE ROOF CW VELOCITY INCREASER.
- 6 GUY WIRE (TYP. OF 3). REFER TO STRUCTURAL DRAWINGS.



1 PARTIAL MECHANICAL ROOF PLAN
M103 1:200



Revision	By	Appd	YYYY.MM.DD
ISSUED FOR TENDER	JPH	GTH	2016.06.08
ISSUED FOR PRE-TENDER CLIENT REVIEW	JPH	GTH	2016.04.22
ISSUED FOR 99% REVIEW	JPH	GTH	2016.03.02



GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

EDMONTON, ALBERTA

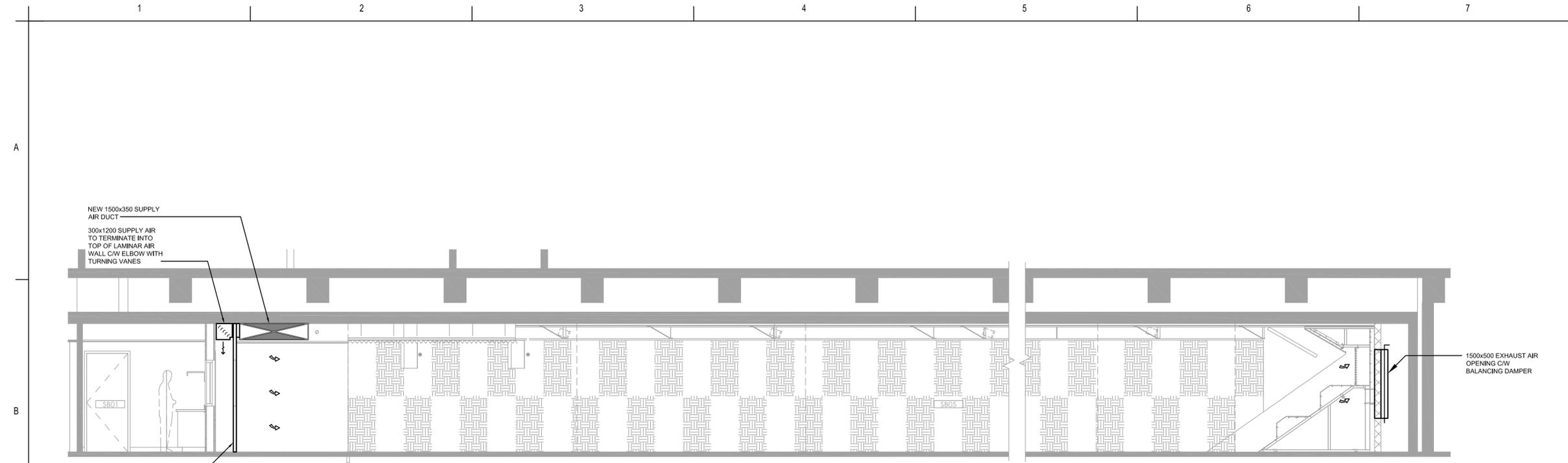
MECHANICAL SECTIONS & PARTIAL PLAN

Project No.
144202775.215

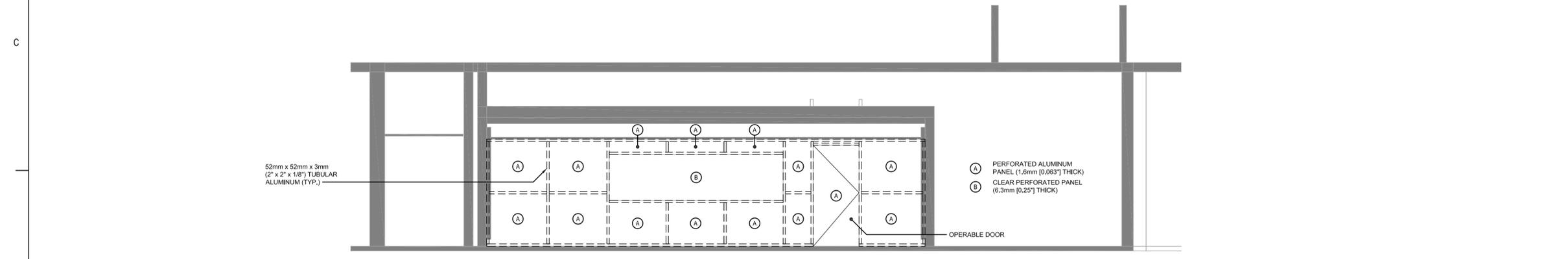
Scale
AS NOTED

Revision

Drawing No.



A
MECHANICAL SECTION THRU RANGE
M201 1:50



B
MECHANICAL SECTION THRU RANGE
M201 1:50

Revision	By	Appd	YYYY.MM.DD
ISSUED FOR TENDER	JPH	GH	2016.06.08
ISSUED FOR PRE-TENDER CLIENT REVIEW	JPH	GH	2016.04.22
ISSUED FOR 99% REVIEW	JPH	GH	2016.03.02
Issued	By	Appd	YYYY.MM.DD

Permit-Seal

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STANTEC CONSULTING LTD.
Signature
Date: June 8, 2016
PERMIT NUMBER: P 0258
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EXISTING BUILDING RENOVATION

EDMONTON, ALBERTA

Title
MECHANICAL DETAILS

Project No.
144202775.215

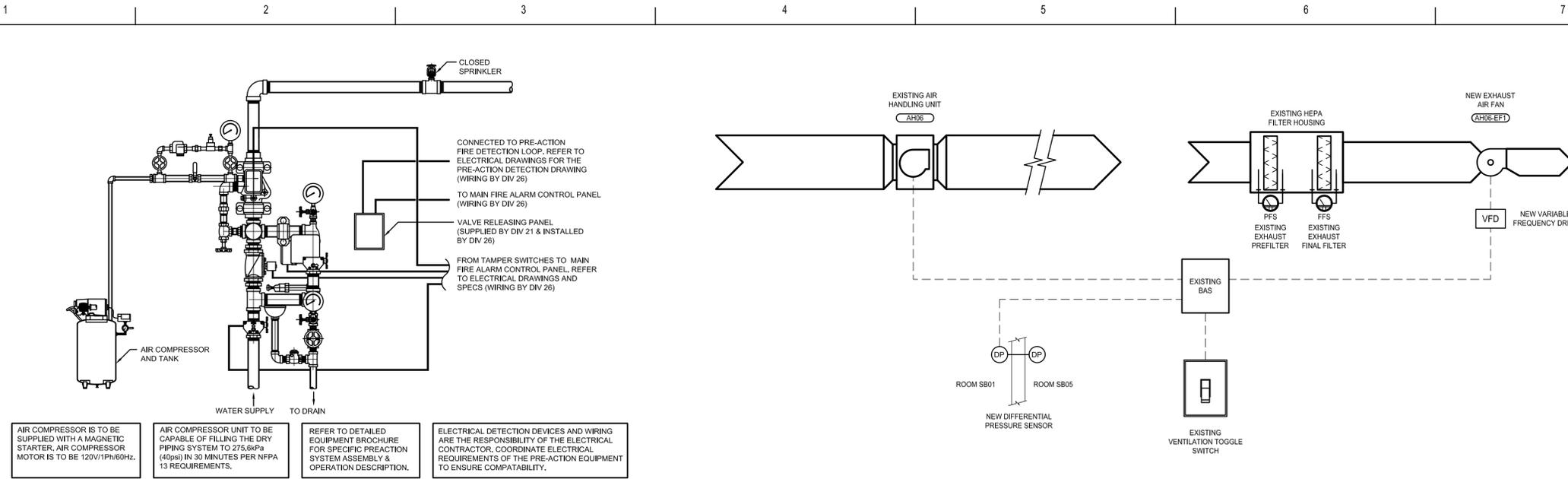
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Scale
N.T.S.

Drawing No.

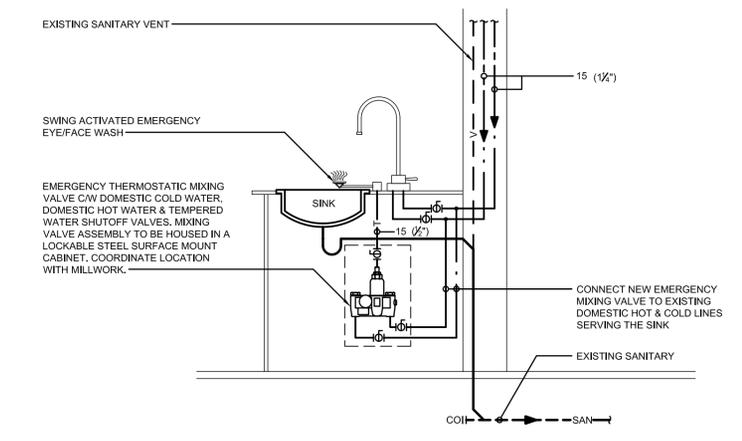
Sheet
5 of 7

M301

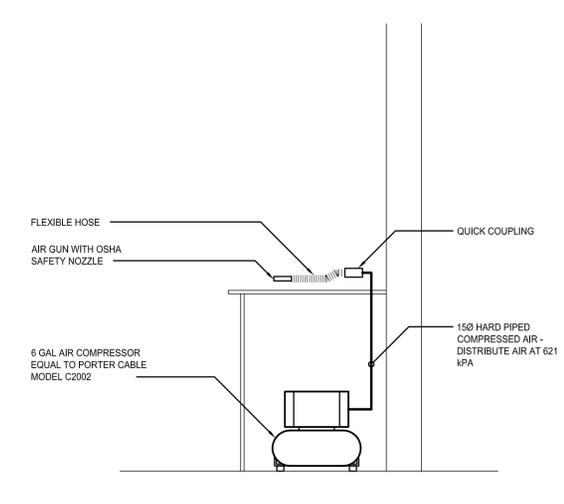


A DOUBLE INTERLOCKED PREACTION SYSTEM DETAIL
M301 N.T.S.

B RANGE VENTILATION CONTROLS SCHEMATIC
M301 N.T.S.



C SINK MOUNTED EMERGENCY EYEWASH PIPING DETAIL
M301 N.T.S.



D AIR COMPRESSOR DETAIL
M301 N.T.S.

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Revision	By	Appd	YYYY.MM.DD
ISSUED FOR TENDER	JPH	GH	2016.06.08
ISSUED FOR PRE-TENDER CLIENT REVIEW	JPH	GH	2016.04.22
ISSUED FOR 99% REVIEW	JPH	GH	2016.03.02
Issued	By	Appd	YYYY.MM.DD

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STANTEC CONSULTING LTD.
Signature: *G.T.J. Henderson*
Date: *June 8, 2016*
PERMIT NUMBER: P 0258
The Association of Professional Engineers,
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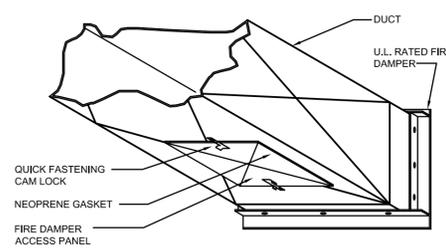
Client/Project
GOVERNMENT OF CANADA

EXISTING BUILDING RENOVATION

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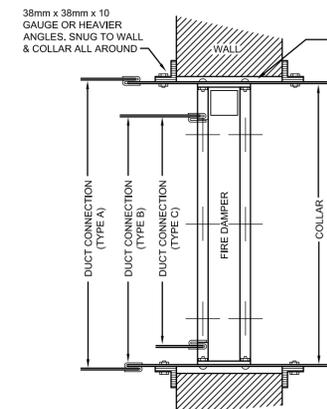
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MECHANICAL DETAILS

Project No. 144202775.215	Scale N.T.S.
Revision	Drawing No.

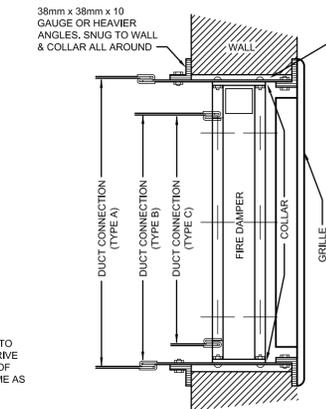


ACCESS PANEL SCHEDULE	
DUCT SIZE	ACCESS PANEL SIZE
LESS THAN 200mm WIDE	150x150 - SLEEVE MIN OF 75mm
200mm WIDE	150x150mm
250mm TO 300mm	200x200mm
300mm TO 350mm	250x250mm
OVER 350 WIDE	300x300mm

FIRE DAMPER ACCESS DETAIL

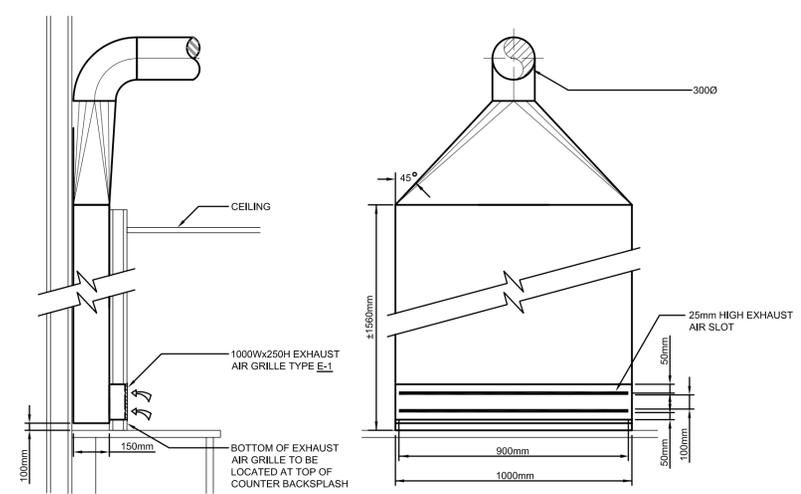


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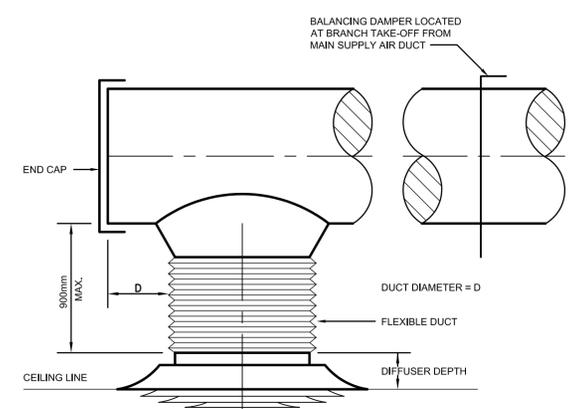


GRILLE WITH FIRE DAMPER DETAIL

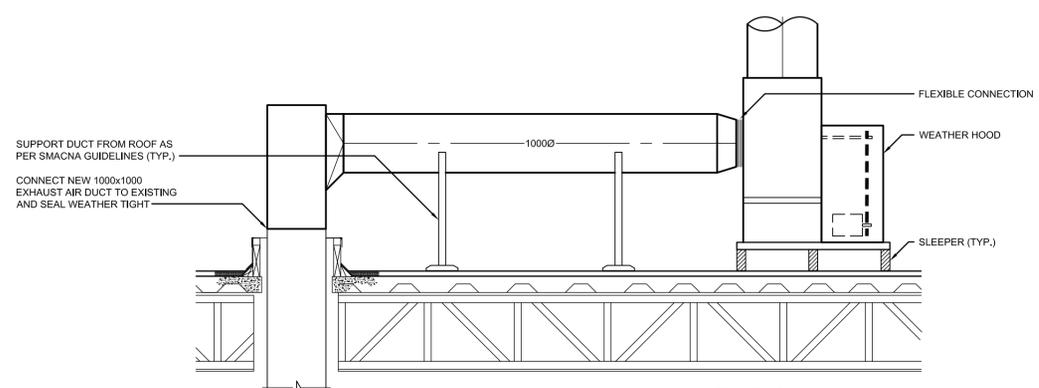
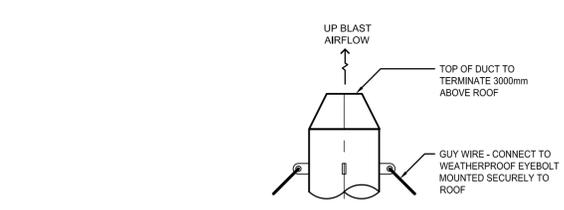
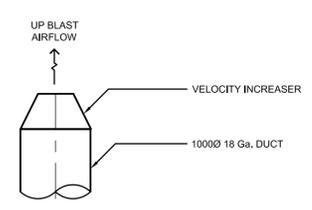
A FIRE DAMPER INSTALLATION DETAIL
M302 N.T.S.



B MULTI-SLOT EXHAUST HOOD DETAIL
M302 N.T.S.



C DIFFUSER CONNECTION DETAIL
M302 N.T.S.



D ROOF MOUNTED EXHAUST FAN DETAIL
M302 N.T.S.

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Notes

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PERMIT NUMBER: P 0256
2016-06-08

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EDMONTON, ALBERTA

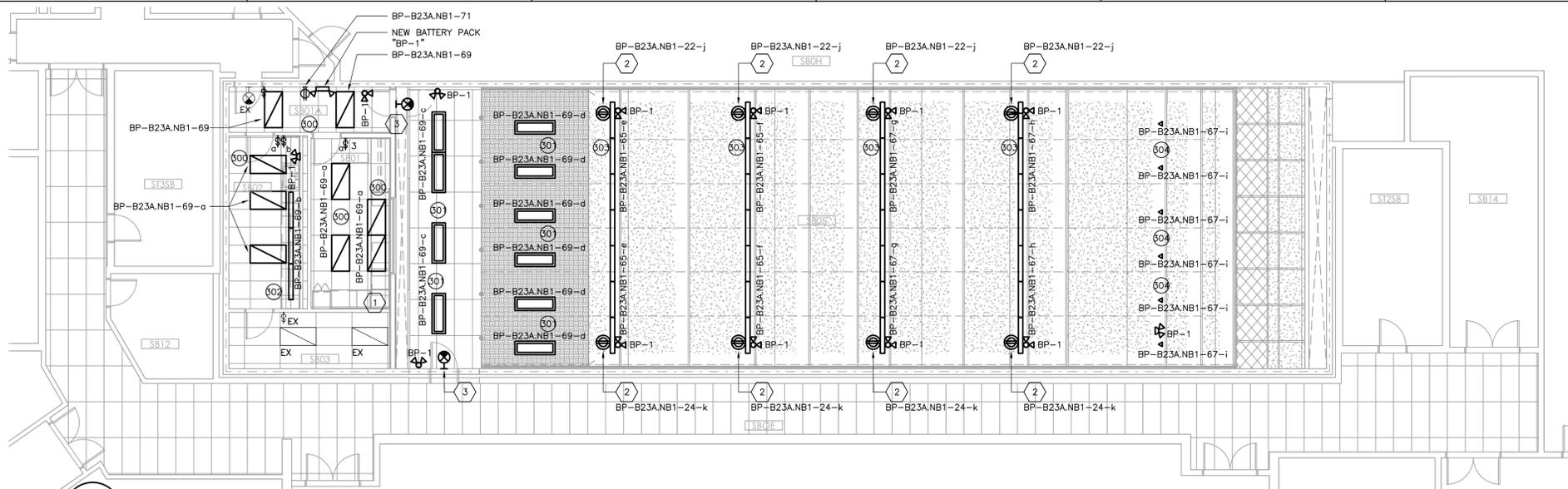
Title
BASEMENT FLOOR PLAN -
LIGHTING, POWER AND SYSTEM

Project No.
144202775.215

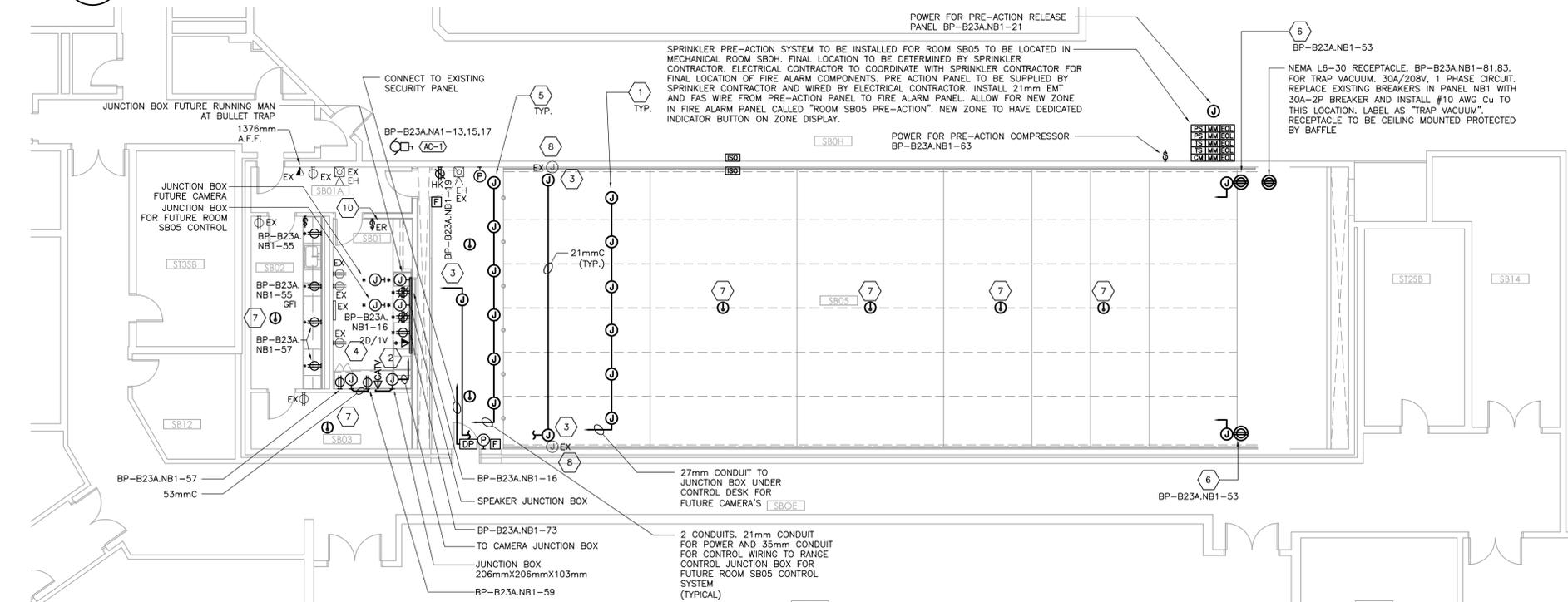
Revision
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Sheet
3 of 5

E200



1 BASEMENT CONSTRUCTION PLAN - LIGHTING
E200 1:100

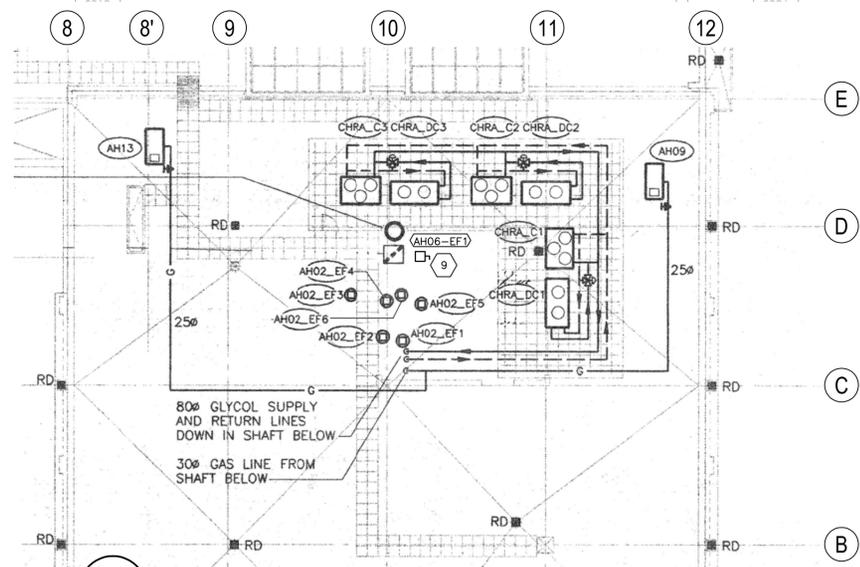


2 BASEMENT CONSTRUCTION PLAN - POWER AND SYSTEM
E200 1:100

DARK BLUE CONTROL BOOTH	LIGHT BLUE BEHIND FIRE LINE	RED FIRING LINE	YELLOW FIRST ROW	GREEN SECOND ROW
PURPLE THIRD ROW	ORANGE FORTH ROW	PINK SIXTH ROW	GOLD LEFT PLUGS	BROWN RIGHT PLUGS
D _{3a}	D _{3c}	D _{3d}	D _{3e}	D _{3f}
D _{3g}	D _{3h}	D _{3i}	D _{3j}	D _{3k}

NOTE:
1. SWITCH TYPE TO BE EATON GREENGATE 0-10V SLIDE DIMMER WALL STATION. ONE HOT WIRE TO SWITCH. 3 WIRES TO LIGHT FOR 0-10V DIMMING. SEE WIRING DIAGRAM ON EATON WEBSITE.
2. COLORED LAMACOID LETTERING COLOR AS SUGGESTED BY ENGRAVER. COLORS SHOWN RELATE TO DRAWING E300. FRAME AND MOUNT E300 ABOVE BANK OF SWITCHES.

3 ALL SLIDE DIMMING SWITCHES LAYOUT
E200 N.T.S.



4 ROOF PLAN
E200 1:200

- LIGHTING KEYNOTES:
- 1 LOCATION OF DIMMER LIGHTING SWITCHES. SEE DETAIL 3/E200.
 - 2 INSTALL RECEPTACLE AT TOP OF PROTECTED BAFFLE.
 - 3 NEW EXIT SIGN SHALL BE TIED INTO EXISTING EXIT SIGN CIRCUIT.

- POWER AND SYSTEM KEYNOTES:
- 1 FUTURE CAMERA. HOME RUN TO UNDER CONTROL DESK. CAMERA JUNCTION BOX TO BE LOCATED ABOVE END POINT OF BALLISTIC CEILING.
 - 2 SEE 2/E400 FOR MILLWORK DETAIL.
 - 3 SPEAKER JUNCTION BOX. HOME RUN TO UNDER CONTROL DESK IN ROOM SB01.
 - 4 SEE ARCHITECTURAL DRAWING FOR ELEVATION.
 - 5 TARGET RAIL JUNCTION BOX AND CONDUIT TO UNDER CONTROL DESK FOR FUTURE ROOM SB05 CONTROL SYSTEM. EACH FUTURE TARGET SHALL BE CONNECTED TO 20A-1P POWER CIRCUIT BP-B23A.NB1-23 FOR NORTH 3 LANES AND BP-BA23A.NB1-25 FOR SOUTH 3 LANES.
 - 6 JUNCTION AND 27mm CONDUIT BACK TO CONTROL DESK FOR FUTURE RUNNING MAN TARGET SYSTEM. RECEPTACLE AND JUNCTION TO BE PROTECTED BY BAFFLE.
 - 7 HEAT DETECTORS TO BE INSTALLED AS PER DETAIL 1/E400.
 - 8 EXISTING JUNCTION BOX IN WALL FOR BEAM DETECTORS. TIE IN CONDUITS TO ROOM SB05 CONTROL BOX.
 - 9 PROVIDE AND INSTALL 100A DISCONNECT, 80A 3 POLE BREAKER AND #6 AWG C_u FROM COP-AA1 OR NEAREST 600V PANEL FOR NEW 40HP - 600V EXHAUST FAN ON ROOF.
 - 10 SWITCH FOR ROOM SB05 VENTILATION CONTROL.

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