NEW WEST STEINBACH
ELEMENTARY SCHOOL

GOVERNMENT

CENTRAL SERVICES
CAPITAL PROJECTS PLANNING & DELIVERY
200-400 ELLICE AVENUE
WINNIPEG, MANITOBA
R3B 3M3

PH. 204 - 391 - 3110

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HANOVER SCHOOL DIVISION
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LANDSCAPE ARCHITECT

HTFC PLANNING & DESIGN
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R3C 5R6

PH. 204 - 943 - 7501

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BART.FLISAK@CKPENG.COM

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R3H ON3

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R3T 6B8

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CONTACT:
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JASON.DUNN@WSP.COM

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CONTACT:
CAM REGIER
CREGIER@I-DESIGNS.CA

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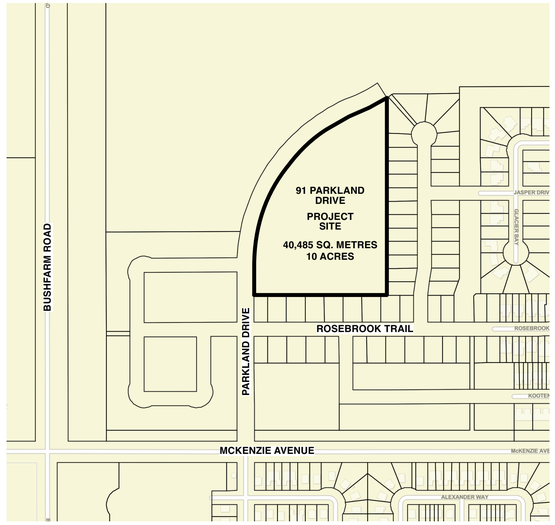
PRAIRIE ARCHITECTS INC.
101-139 MARKET AVENUE
WINNIPEG, MANITOBA
R3B 0P5

PH. 204 - 956 - 0938

CONTACT:
KAERYN GREGORY
KAERYN@PRAIRIEARCHITECTS.CA

CONTEXT PLAN



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1 : 4000

N

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This drawing must not be scaled. The contractor shall verify all dimensions and other data on site prior to commencement of work. All discrepancies, errors, and omissions are to be reported to the architect. Drawing and specifications, as instruments of service, are the property of the architect, the copyright in the same being reserved to him. No reproduction may be made without the permission of the architect, and when made, must bear his name. All prints to be returned to the architect on request.

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DEPARTMENT OF CENTRAL SERVICES
Suite 200 - 400 Elice Ave., Winnipeg MB R3B 3M3
telephone | 204-945-8803 **fax** | 204-948-2001

issue / rev.

#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

PROVINCE OF MANITOBA
LINDSAY OSTER
2023-03-24
REGISTERED ARCHITECT

PROVINCE OF MANITOBA
PRAIRIE ARCHITECTS INC.
No. 029
APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

drawing information

TITLE PAGE

drawn by: **SK**
approved by: **LO**

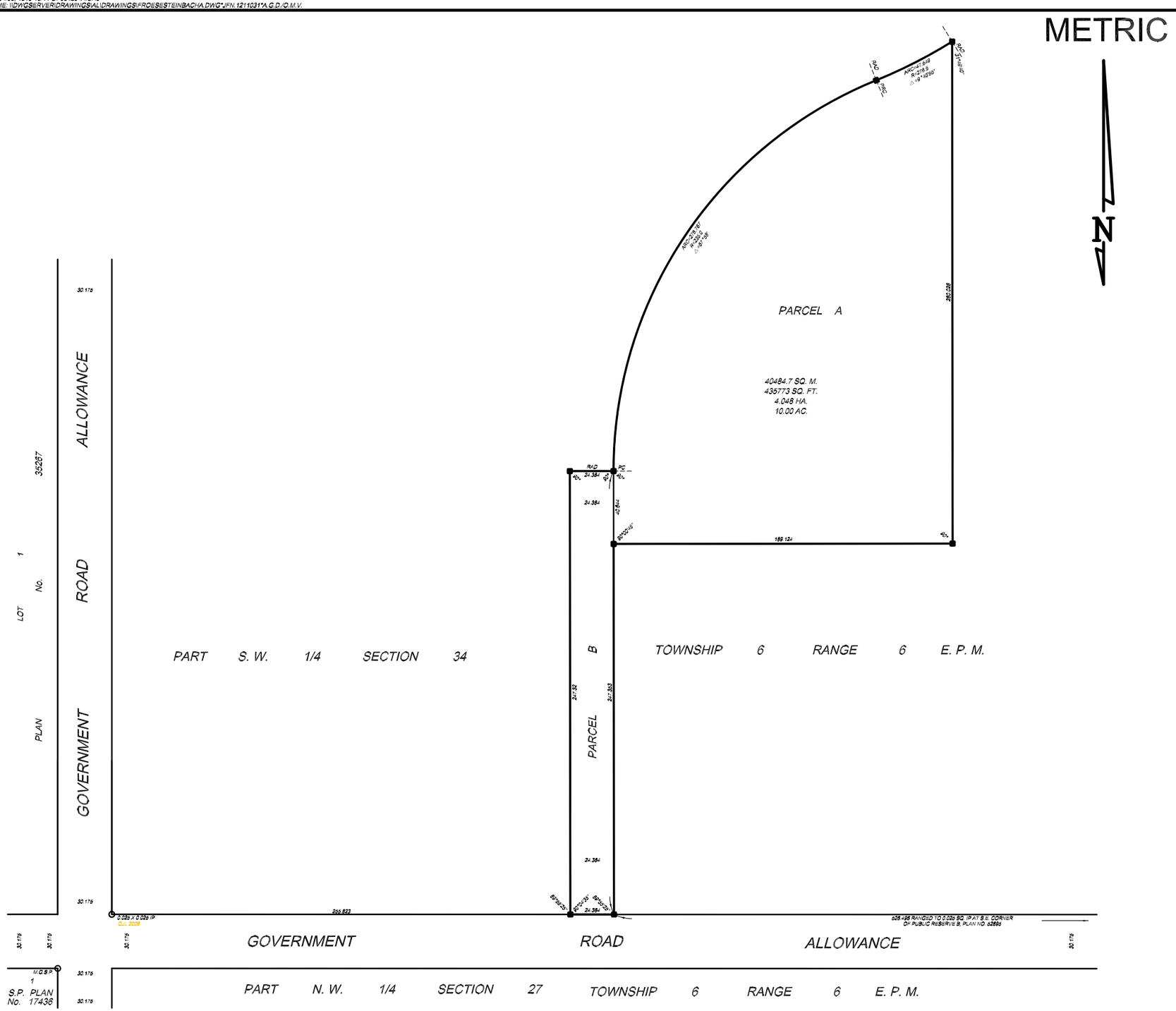
scale: **1:100**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

A0 00

F.B. NO. 1999-94/95, 1518-10/11*DF081234A.CR5
DRAWING NAME: \\DWGSERVER\DRAWINGS\AL\DRAWINGS\FROESESTEINBACHA.DWG*JFN.12110311*A.G.D./O.M.V.

METRIC



DEPOSIT NO. 1064-2014
ORIGINAL

PLAN OF SURVEY
OF PART OF
S.W. 1/4 SECTION 34, TOWNSHIP 6, RANGE 6 E.P.M.

CITY OF STEINBACH
MANITOBA

SCALE 1:1000 — 0 10 20 30 40 50 60 100

PREPARED UNDER EXPROPRIATION ACT. (MANITOBA)

NOTES:

ALL DISTANCES ARE IN METRES AND MAY BE CONVERTED TO FEET BY MULTIPLYING BY 3.28084.
SURVEY MONUMENTS FOUND ON THE GROUND ARE DESCRIBED AND SHOWN THUS.....○
IRON POSTS 0.025 X 0.025 X 0.914 MARKED M.L.S. ARE PLANTED AT ALL POINTS SHOWN THUS.....■
ALL PLANS REFERRED TO ARE ON RECORD IN THE WINNIPEG LAND TITLES OFFICE.
LAND REQUIRED FOR SCHOOL SITE IS SHOWN AS PARCELS A AND B AND BORDERED THUS .....

AFFIDAVIT

I, ALBERT GERHARD DEGNER, OF THE CITY OF WINNIPEG, MANITOBA LAND SURVEYOR, MAKE OATH AND SAY THAT I DID PERSONALLY SUPERINTEND THE SURVEY REPRESENTED BY THIS PLAN, THAT THE SURVEY WAS MADE BETWEEN THE 2ND DAY OF MAY, A.D. 2011 AND 24TH DAY OF JUNE, A.D. 2014 AND THAT THE SURVEY AND PLAN ARE CORRECT AND CORRECT AND TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SWORN TO BEFORE ME AT THE CITY OF WINNIPEG
THIS 28TH DAY OF AUGUST, A.D. 2014

MANITOBA LAND SURVEYOR

A SURVEYOR AUTHORIZED TO PRACTISE
UNDER "THE LAND SURVEYORS ACT."

CERTIFICATE

THIS IS TO CERTIFY:

A) THIS IS THE PLAN REFERRED TO IN BY-LAW NO. OF THE HANOVER SCHOOL DIVISION

B) ALL REGISTERED OWNERS OF ANY LANDS THAT WILL VEST BY REASON OF THE REGISTRATION OF THE PLAN HAVE AGREED WITH THE AUTHORITY ON THE SETTLEMENT OF DUE COMPENSATION FOR THE LAND, OR THAT THE MUNICIPALITY IS THE OWNER OR ENTITLED TO BE THE OWNER OF THE LAND AFFECTED BY THE PLAN.

C) THE LAND IS ACQUIRED FREE AND CLEAR OF ALL ENCUMBRANCES.

D) THE LAND ACQUIRED EXCEPT'S MINES AND MINERALS AND NAMED SUBSTANCES WHICH ARE EXCEPTED FROM OR NOT INCLUDED IN THE CERTIFICATE OF TITLE OF THE REGISTERED OWNER OF THE SURFACE UNDER THE REAL PROPERTY ACT OR ARE NOT OWNED BY THE OWNER OF THE SURFACE UNDER THE REGISTRY ACT, AND EXCEPTS RESERVATIONS IN FAVOR OF THE CROWN AS EXCEPTED FROM THE TITLE OF THE OWNER OF THE SURFACE OR TO WHICH TITLE IS SUBJECT BY IMPLICATION UNDER THE PROVISIONS OF THE REAL PROPERTY ACT.

E) THE LAND IS BEING ACQUIRED UNDER SECTION 62(1) OF THE PUBLIC SCHOOLS ACT.

DATED AT THE CITY OF STEINBACH
THIS DAY OF , A.D. 2014

SECRETARY, HANOVER SCHOOL DIVISION

REGISTRATION

ENTERED AND FILED IN THE
WINNIPEG LAND TITLES OFFICE
THIS _____ DAY OF _____, 20___
AS PLAN NUMBER _____ AND THE
PLAN REFERRED TO IN AN INSTRUMENT
REGISTERED
IN THE SAID OFFICE AS NUMBER _____

FOR DISTRICT REGISTRAR

REGISTRATION NO. _____

THIS APPROVAL IS VALID FOR 12 MONTHS UNLESS REGISTERED.

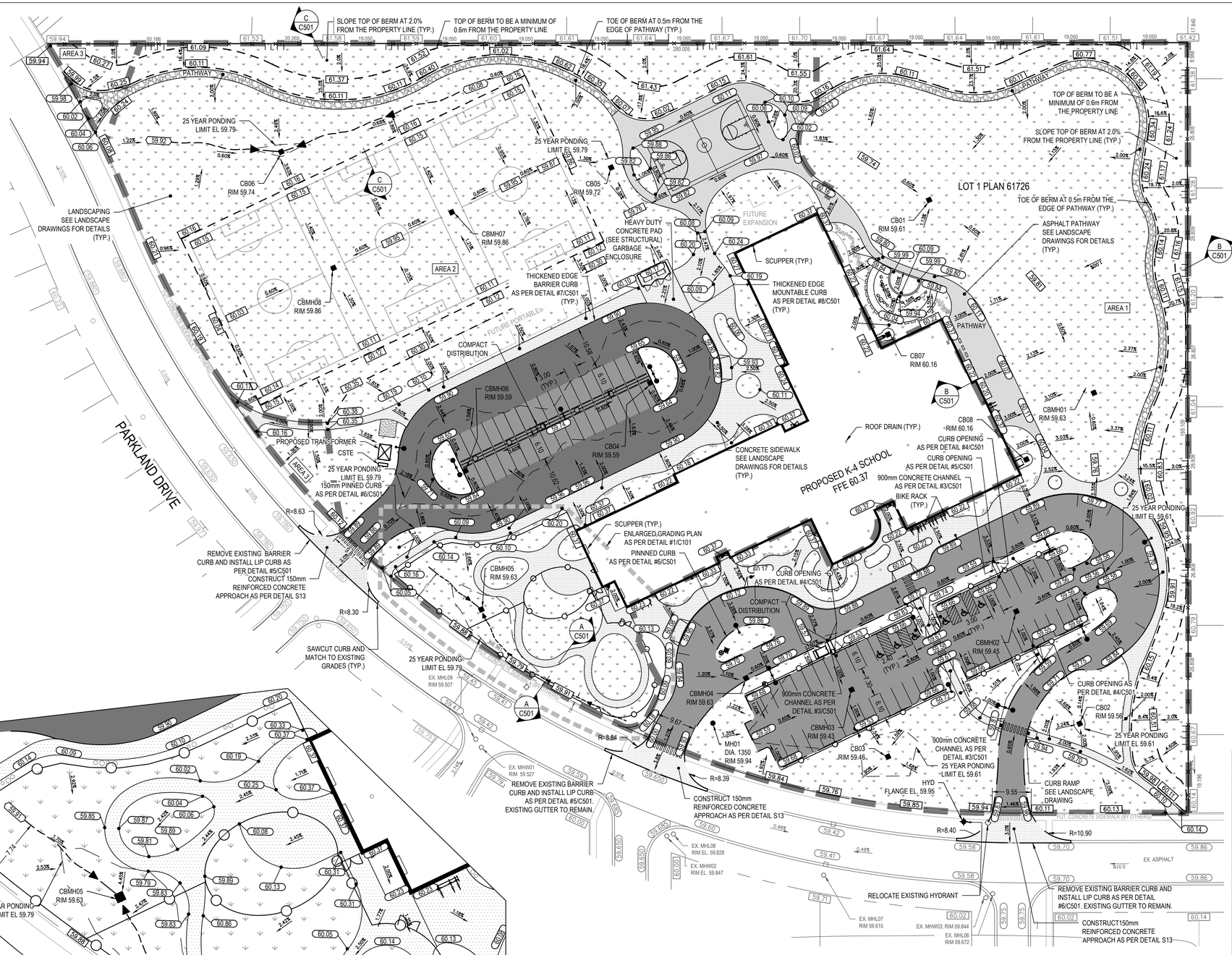
APPROVED:
THIS _____ DAY OF _____, 20___

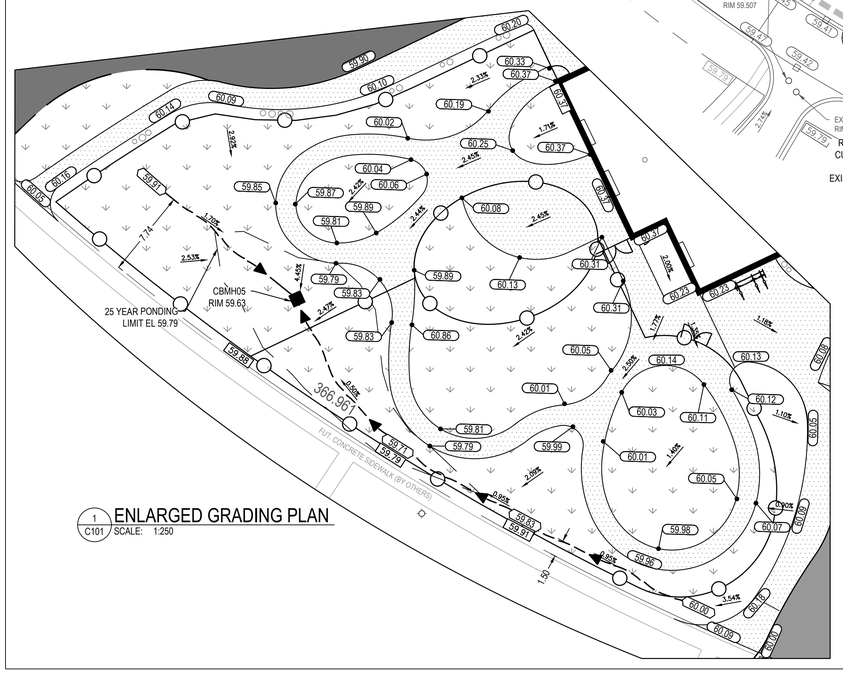
EXAMINER OF SURVEYS

RE-APPROVED:
THIS _____ DAY OF _____, 20___

EXAMINER OF SURVEYS

Pollock & Wright
LAND SURVEYING • GEOMATICS
2070 NOTRE DAME AVENUE, WINNIPEG, MB R3H 0J8





1 C101 ENLARGED GRADING PLAN
SCALE: 1:250

NOTES:

1. ALL WORK AND MATERIALS TO BE IN ACCORDANCE WITH THE LATEST REVISION OF THE CITY OF STEINBACH STANDARD CONSTRUCTION SPECIFICATIONS.
2. THE INFORMATION SHOWN FOR EXISTING UTILITIES IS THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT GIVEN UTILITIES ARE EXACT. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES BEFORE STARTING CONSTRUCTION AND PROTECTING ALL UTILITIES DURING CONSTRUCTION. ALL EXISTING UTILITIES MUST BE LOCATED AND VERIFIED PRIOR TO COMMENCEMENT OF WORK. LOST TIME DUE TO FAILURE OF THE CONTRACTOR TO CONFIRM UTILITY LOCATIONS AND NOTIFY THE ENGINEER OF POSSIBLE CONFLICTS PRIOR TO CONSTRUCTION WILL BE AT THE CONTRACTORS EXPENSE.
3. ALL ROADWAY DIMENSIONS SHOWN ARE TO BACK OF CURB.
4. ALL SURFACES TO BE MAINTAINED OR RESTORED TO PREVIOUS CONDITION OR BETTER.
5. BOULEVARD RESTORATION TO BE SOD UNLESS OTHERWISE NOTED.
6. SIDEWALKS TO BE SLOPED AT 1.0% MIN TO 2.5% MAX.

EXISTING	LEGEND-PLAN	PROPOSED
150 WM	WATER MAIN	150 WM
300 LDS	LAND DRAINAGE SEWER	300 LDS
250 WWS	WASTE WATER SEWER	250 WWS
PO	POWER OVERHEAD HYDRO	
	LIP CURB	
	PINNED CURB	
	BARRIER CURB	
	MOUNTABLE CURB	
	EDGE OF PAVEMENT	
	CURB AND GUTTER	
	RAMP	
	PROPERTY LINE	
	CHAINLINK FENCE	
×259.50	GROUND ELEVATION	
00.00	ROAD ELEVATION	00.00
00.00	LOT ELEVATION	00.00
00.00	DITCH/SWALE ELEVATION	00.00
	LIGHT STANDARD	
	ELECTRICAL PLUG	
	FLOW DIRECTION	
	SWALE FLOW DIRECTION	
	SURVEY BAR	
	HYDRO POLE	
	CURB STOP / PLUG	
	VALVE / HYDRANT	
	MANHOLE / CATCHBASIN	
	CATCHMENT BOUNDARY	
	CONCRETE	
	LIGHT DUTY ASPHALT	
	HEAVY DUTY ASPHALT	
	ASPHALT PATHWAY	
	GRANULAR PATHWAY	
	LANDSCAPING	

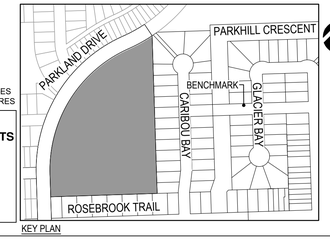
ISSUED FOR CONSTRUCTION

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

BENCHMARK (B.M.)
ELEVATION = 261.213
JD01 - TOP OF HYDRANT ON JASPER DRIVE, 1st W OF GLACIER BAY

FOR CROSS SECTIONS AND DETAILS REFER TO DRAWING C501

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
WSP Canada Inc.
No. 5750



KEY PLAN

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telephone | 204–945–8803 **fax** | 204–948–2001

issue / rev.

#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

PROVINCE OF MANITOBA
B.P. RIEGE
Member 38453
REGISTERED PROFESSIONAL ENGINEER
2023-03-30

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

HANOVER SCHOOL DIVISION
Hanover School Division
6 Chrysler Gate
Steinbach, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL

Parkland Drive, Steinbach, MB

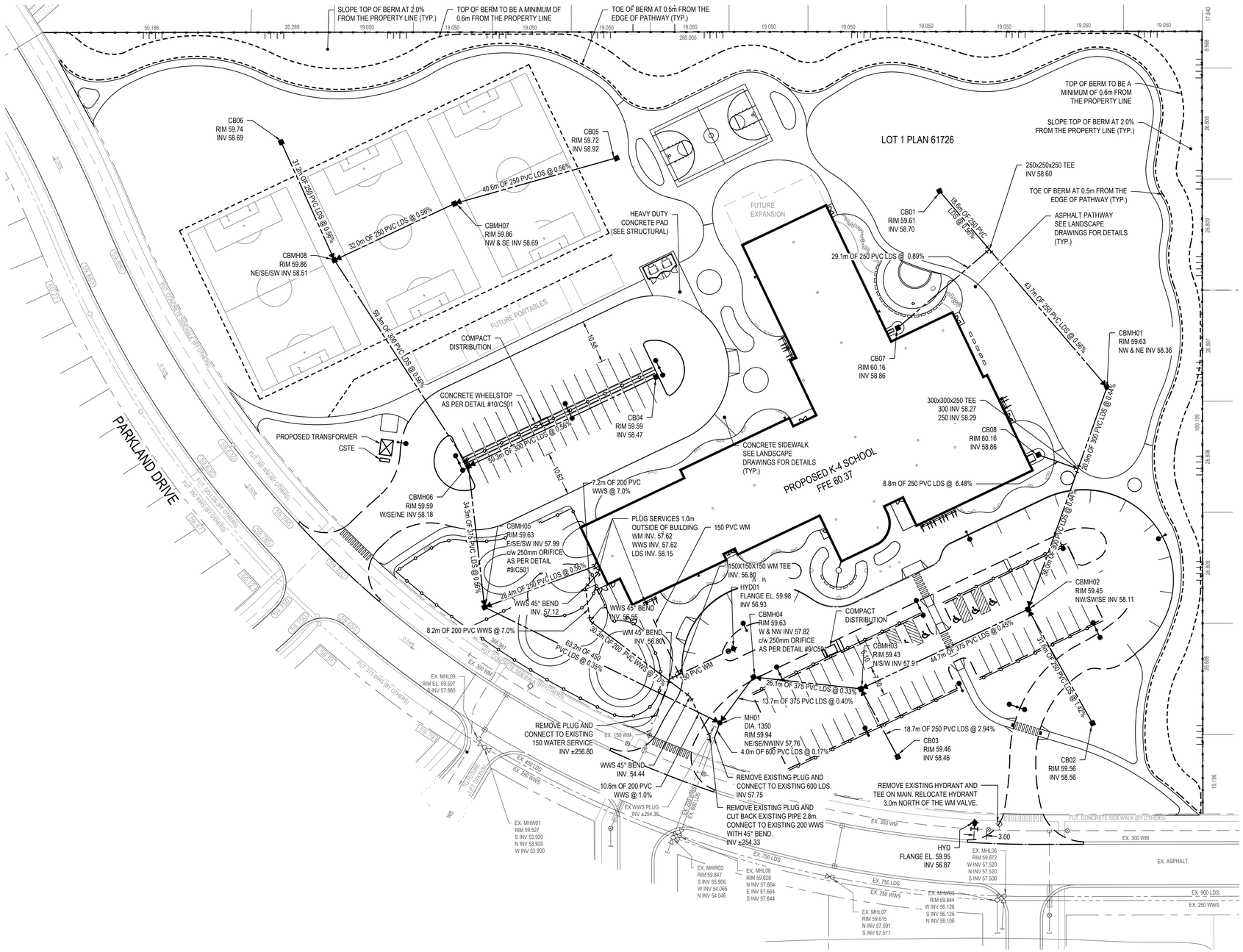
drawing information

GRADING PLAN

drawn by: **CJ**
approved by: **BR**

scale: **1:500**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **1**

C101



NOTES:

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3. ALL ROADWAY DIMENSIONS SHOWN ARE TO BACK OF CURB.
4. ALL SURFACES TO BE MAINTAINED OR RESTORED TO PREVIOUS CONDITION OR BETTER.
5. BOULEVARD RESTORATION TO BE SOD UNLESS OTHERWISE NOTED.
6. SIDEWALKS TO BE SLOPED AT 1.0% MIN TO 2.5% MAX.

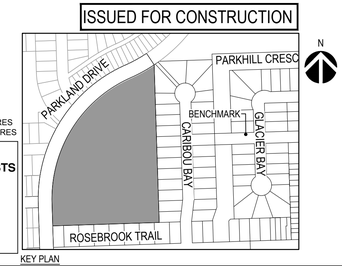
BENCHMARK (B.M.)
ELEVATION = 261.213
JD01 - TOP OF HYDRANT ON JASPER DRIVE, 1st W OF GLACIER BAY

FOR CROSS SECTIONS AND DETAILS REFER TO DRAWING C501

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
WSP Canada Inc.
No. 5750

ISSUED FOR CONSTRUCTION



KEY PLAN

EXISTING	LEGEND-PLAN	PROPOSED
150 WM	WATER MAIN	150 WM
300 LDS	LAND DRAINAGE SEWER	300 LDS
250 WWS	WASTE WATER SEWER	250 WWS
PO	POWER OVERHEAD HYDRO	
	LIP CURB	
	PINNED CURB	
	BARRIER CURB	
	MOUNTABLE CURB	
	EDGE OF PAVEMENT	
	CURB AND GUTTER	
	RAMP	
	PROPERTY LINE	
	CHAINLINK FENCE	
×259.50	GROUND ELEVATION	
00.00	ROAD ELEVATION	00.00
00.00	LOT ELEVATION	00.00
00.00	DITCH/SWALE ELEVATION	00.00
	LIGHT STANDARD	
	ELECTRICAL PLUG	
	FLOW DIRECTION	
	SWALE FLOW DIRECTION	
	SURVEY BAR	
	HYDRO POLE	
	CURB STOP / PLUG	
	VALVE / HYDRANT	
	MANHOLE / CATCHBASIN	
	CATCHMENT BOUNDARY	
	CONCRETE	
	LIGHT DUTY ASPHALT	
	HEAVY DUTY ASPHALT	
	ASPHALT PATHWAY	
	GRANULAR PATHWAY	
	LANDSCAPING	

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issue / rev.

#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

PROVINCE OF MANITOBA
B.P. RIEGE
Member 38453
REGISTERED PROFESSIONAL ENGINEER
2023-03-30

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

HANOVER SCHOOL DIVISION
Hanover School Division
6 Chrysler Gate
Steinbach, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
Parkland Drive, Steinbach, MB

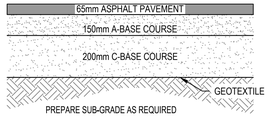
drawing information

SERVICING PLAN

drawn by: **CJ**
approved by: **BR**

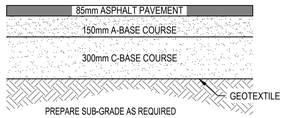
scale: **1:500**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **1**

C102



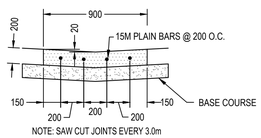
PREPARE SUB-GRADE AS REQUIRED
MAX. SUBCUT 500mm REPLACE WITH
SUB-BASE MATERIAL
STRUCTURE IS BASED ON GEOTECHNICAL
INVESTIGATION.

1 / C101 LIGHT DUTY PAVEMENT STRUCTURE
SCALE: NTS



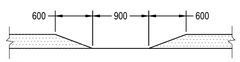
PREPARE SUB-GRADE AS REQUIRED
MAX. SUBCUT 500mm REPLACE WITH
SUB-BASE MATERIAL
STRUCTURE IS BASED GEOTECHNICAL
INVESTIGATION.

2 / C101 HEAVY DUTY PAVEMENT STRUCTURE
SCALE: NTS

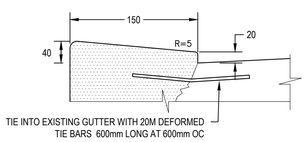


NOTE: SAW CUT JOINTS EVERY 3.0m

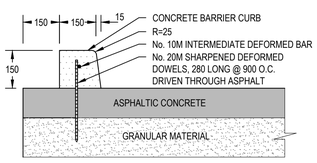
3 / C101 900 CONCRETE DRAINAGE CHANNEL DETAIL
SCALE: NTS



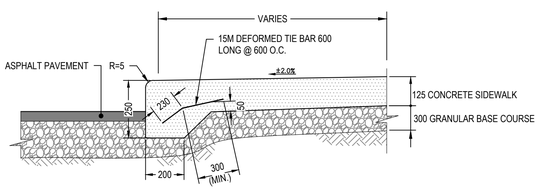
4 / C101 CONCRETE CURB OPENING DETAIL
SCALE: NTS



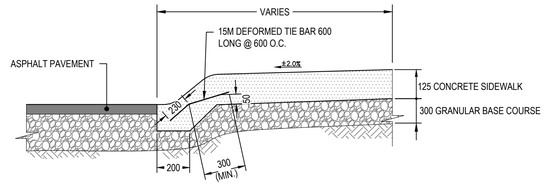
5 / C101 40mm LIP CURB DETAIL
SCALE: NTS



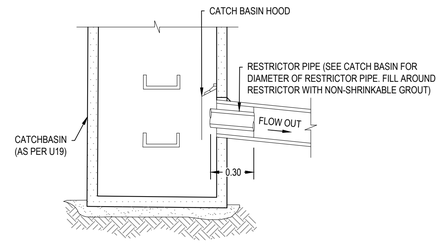
6 / C101 PINNED BARRIER CURB
SCALE: NTS



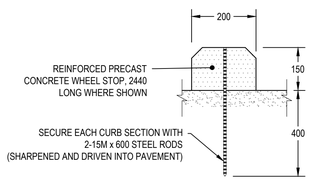
7 / C101 THICKENED EDGE BARRIER CURB
SCALE: NTS



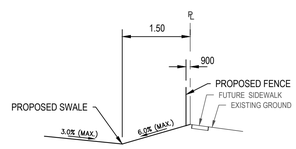
8 / C101 THICKENED EDGE MOUNTABLE CURB
SCALE: NTS



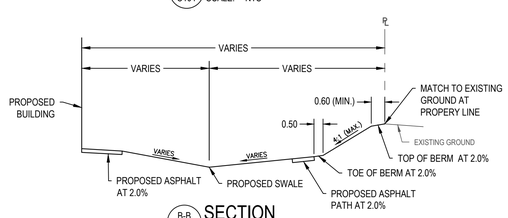
9 / C102 CATCH BASIN ORIFICE DETAIL
SCALE: NTS



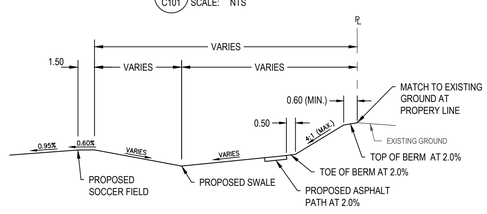
10 / C102 PRECAST CONCRETE WHEELSTOP
SCALE: NTS



A-A / C101 SECTION
SCALE: NTS



B-B / C101 SECTION
SCALE: NTS



C-C / C101 SECTION
SCALE: NTS

NEW WEST STEINBACH ELEMENTARY SCHOOL SITE STORM WATER RUN-OFF CALCULATIONS:

1. RATIONAL FORMULA USED:
   - Q = CiA
   - Q = FLOW IN cfs
   - i = RAINFALL INTENSITY IN INCHES/HR
   - A = AREA IN ACRES
   - FOR A STORM WITH A TIME OF 15 MINUTES
   - i = 2.63 IN/HR (2 YEAR STORM)
   - i = 5.01 IN/HR (25 YEAR STORM)
   - ALLOWABLE RUNOFF COEFFICIENT IS C = 0.35

2. STORM CALCULATION
   - SITE AREA = 10.001 ACRES
   - ALLOWABLE PEAK FLOW = 9.206 cfs

ENTIRE SITE

RUNOFF COEFFICIENT CALCULATION TABLE

SURFACE	AREA	C	C X A
BUILDING	1.097 ACRES	0.90	0.987
PAVEMENT	2.700 ACRES	0.90	2.430
GRAVEL	0.202 ACRES	0.50	0.101
LANDSCAPING	6.002 ACRES	0.10	0.600
TOTAL	10.001 ACRES		SUM = 4.119

WEIGHTED RUNOFF COEFFICIENT C = 4.119/10.001 = 0.412

TOTAL GENERATED 25 YEAR PEAK FLOW = 20.63 cfs
STORAGE REQUIRED = 10,760.4. cu.ft (304.7 cu.m)
STORAGE AVAILABLE ONSITE = 10,823.9 cu.ft (306.5 cu.m)
AREA 1 OUTFLOW THROUGH 250mm ORIFICE = 4.12 cfs
AREA 2 OUTFLOW THROUGH 250mm ORIFICE = 4.53 cfs
AREA 3 DIRECT RUN-OFF = 0.13 cfs
TOTAL RESTRICTED OUTFLOW = 8.78 cfs

AREA 1

ALLOWABLE PEAK FLOW = 3.91 CFS

RUNOFF COEFFICIENT CALCULATION TABLE

SURFACE	AREA	C	C X A
BUILDING	0.000 ACRES	0.90	0.000
PAVEMENT	1.381 ACRES	0.90	1.243
GRAVEL	0.122 ACRES	0.50	0.061
LANDSCAPING	2.741ACRES	0.10	0.274
TOTAL	4.244 ACRES		SUM = 1.578

WEIGHTED RUNOFF COEFFICIENT C = 1.578/4.244 = 0.372

TOTAL GENERATED 25 YEAR PEAK FLOW = 7.90 cfs
STORAGE REQUIRED = 3,874.0 cu.ft (109.7 cu.m)
STORAGE AVAILABLE = 3,736.3 cu.ft (105.8 cu.m)
AREA 1 OUTFLOW THROUGH 250mm ORIFICE = 4.12 cfs

AREA 2

ALLOWABLE PEAK FLOW = 5.17 CFS

RUNOFF COEFFICIENT CALCULATION TABLE

SURFACE	AREA	C	C X A
BUILDING	1.097 ACRES	0.90	0.987
PAVEMENT	1.307 ACRES	0.90	1.176
GRAVEL	0.068 ACRES	0.50	0.034
LANDSCAPING	3.147 ACRES	0.10	0.315
TOTAL	5.619 ACRES		SUM = 2.512

WEIGHTED RUNOFF COEFFICIENT C = 2.512/5.619 = 0.447

TOTAL GENERATED 25 YEAR PEAK FLOW = 12.58 cfs
STORAGE REQUIRED = 6,865.2 cu.ft (194.4 cu.m)
STORAGE AVAILABLE = 7,087.7 cu.ft (200.7 cu.m)
AREA 2 OUTFLOW THROUGH 250mm ORIFICE = 4.53 cfs

AREA 3 (DIRECT RUN-OFF)

ALLOWABLE PEAK FLOW = 0.13 CFS

RUNOFF COEFFICIENT CALCULATION TABLE

SURFACE	AREA	C	C X A
BUILDING	0.000 ACRES	0.90	0.000
PAVEMENT	0.010 ACRES	0.90	0.009
GRAVEL	0.011 ACRES	0.50	0.006
LANDSCAPING	0.114 ACRES	0.10	0.011
TOTAL	0.136 ACRES		SUM = 0.026

WEIGHTED RUNOFF COEFFICIENT C = 0.026/0.136 = 0.194

TOTAL GENERATED 25 YEAR PEAK FLOW = 0.13 cfs
STORAGE REQUIRED = 21.2 cu.ft (0.6 cu.m)
NO STORAGE AVAILABLE
AREA 3 DIRECT RUN-OFF = 0.13 cfs

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
WSP Canada Inc.
No. 5750

ISSUED FOR CONSTRUCTION

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issue / rev.

#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

PROVINCE OF MANITOBA
B.P. RIEGE
Member 38453
REGISTERED PROFESSIONAL ENGINEER
2023-03-30

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive
Steinbach, MB
Canada

client

HANOVER SCHOOL DIVISION
Hanover School Division
6 Chrysler Gate
Steinbach, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
Parkland Drive, Steinbach, MB

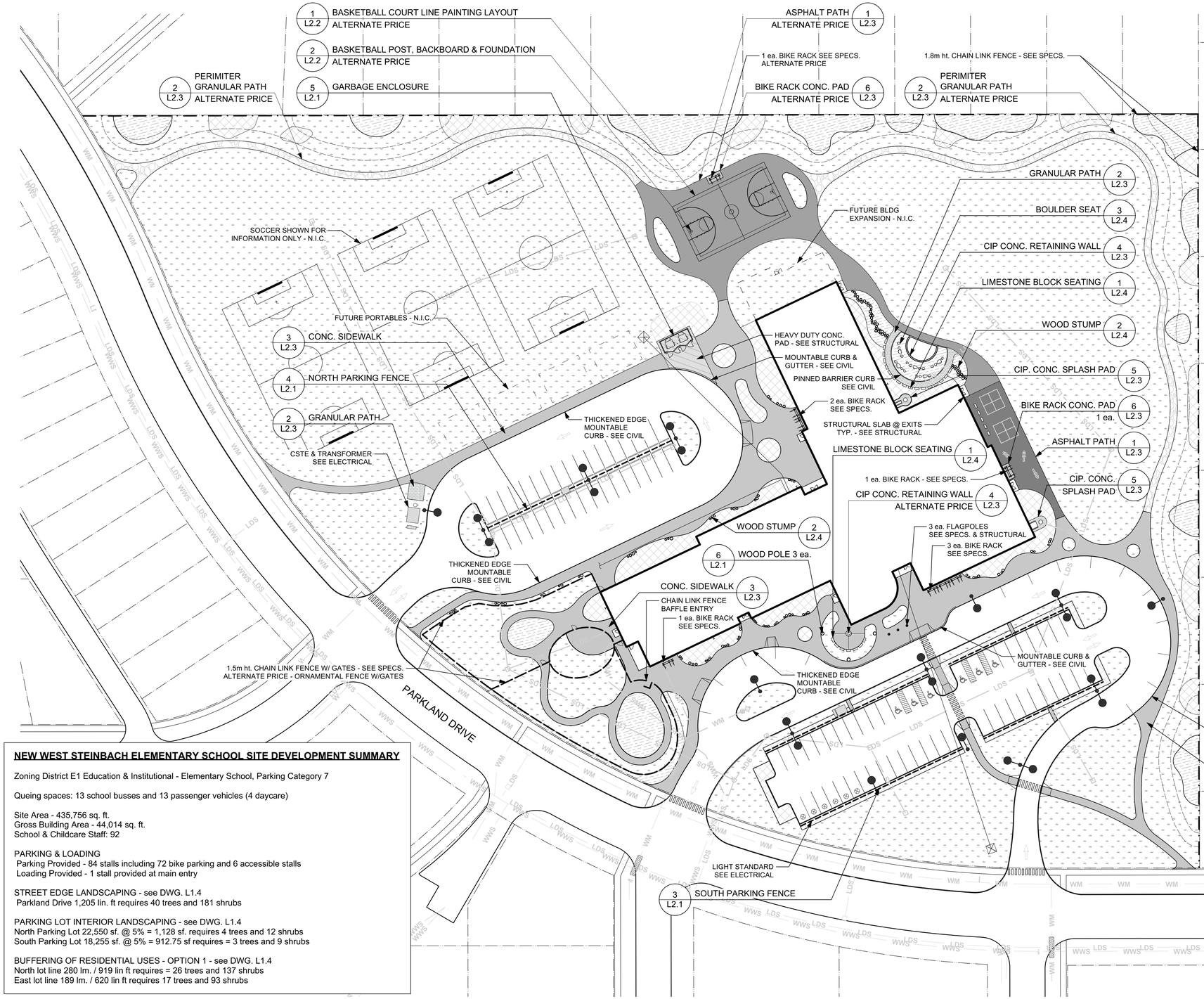
drawing information

SECTIONS AND DETAILS

drawn by: **CJ**
approved by: **BR**

scale: **1:500**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **1**

C501



NEW WEST STEINBACH ELEMENTARY SCHOOL SITE DEVELOPMENT SUMMARY

Zoning District E1 Education & Institutional - Elementary School, Parking Category 7

Queing spaces: 13 school busses and 13 passenger vehicles (4 daycare)

Site Area - 435,756 sq. ft.
Gross Building Area - 44,014 sq. ft.
School & Childcare Staff: 92

PARKING & LOADING
Parking Provided - 84 stalls including 72 bike parking and 6 accessible stalls
Loading Provided - 1 stall provided at main entry

STREET EDGE LANDSCAPING - see DWG. L1.4
Parkland Drive 1,205 lin. ft requires 40 trees and 181 shrubs

PARKING LOT INTERIOR LANDSCAPING - see DWG. L1.4
North Parking Lot 22,550 sf. @ 5% = 1,128 sf. requires 4 trees and 12 shrubs
South Parking Lot 18,255 sf. @ 5% = 912.75 sf requires = 3 trees and 9 shrubs

BUFFERING OF RESIDENTIAL USES - OPTION 1 - see DWG. L1.4
North lot line 280 lm. / 919 lin ft requires = 26 trees and 137 shrubs
East lot line 189 lm. / 620 lin ft requires 17 trees and 93 shrubs

1 L1.1 MATERIALS PLAN
Scale: 1:500

N

0 20 30 40 50 m
SCALE: 1:500

MATERIALS NOTES

1. THIS DRAWING MUST NOT BE SCALED.

2. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.

3. ENSURE THE LOCATION OF ALL EXISTING SERVICES BOTH OLD AND RECENTLY INSTALLED ARE CLEARLY LOCATED ON SITE WITH THE CIVIL ENGINEER PRIOR TO CONSTRUCTION.

4. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRING ALL DAMAGE CAUSED TO SERVICES DURING CONSTRUCTION.

5.REFER TO SPECIFICATIONS FOR DETAILED MATERIAL DESCRIPTIONS.

6. ANY AREA DISTRIBUTED BY CONSTRUCTION NOT SHOWN ON THE DRAWINGS MUST BE RETURNED TO ORIGINAL CONDITION.

LEGEND

- PROPERTY LINE
- 1.5m ht. CHAIN LINK FENCE W/ GATES - **ALTERNATE PRICE -** ORNAMENTAL FENCE W/ GATES
- 1.8m ht. CHAIN LINK FENCE
- PARKING FENCE
- LIMESTONE BLOCK SEATING
- WOOD STUMP
- BOULDER SEAT
- LIGHT STANDARD
- EV READY PARKING STALL - SEE ELECTRICAL
- CONC. SIDEWALK W/THICKENED EDGE
- HEAVY DUTY CONC. PAD - SEE STRUCTURAL
- ASPHALT PATH
- **ALTERNATE PRICE** - ASPHALT PATH
- PLANTING BED
- WOOD MULCH
- SODDING - SEE SPECS.
- **ALTERNATE PRICE** - GRANULAR PERIMETER PATH
- GRANULAR PATH

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issue / rev.

#	date	issue notes
1	2023-03-24	ISSUED FOR CONSTRUCTION

professional seals

JAMES HUDSON
Member No. 186
2023-03-24

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

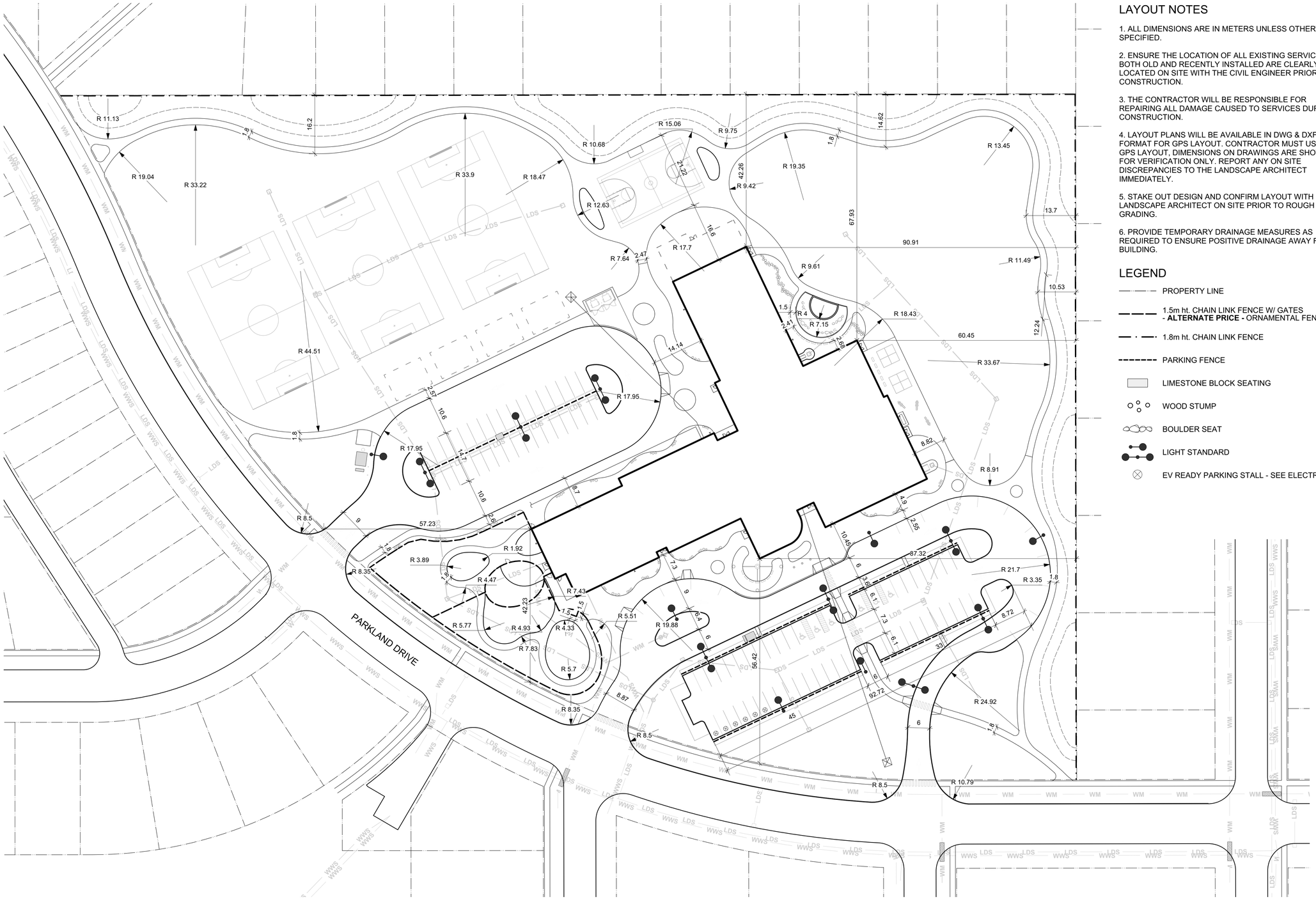
drawing information

MATERIALS PLAN

drawn by: **SW**
approved by: **JH**

scale: **AS SHOWN**
date issued: **2023-03-24**
proj. #: **21-103**
rev. #: **R-1**

L1.1



1 L1.2 LAYOUT PLAN
Scale: 1:500

N

0 20 30 40 50 m
SCALE: 1:500

LAYOUT NOTES

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.

2. ENSURE THE LOCATION OF ALL EXISTING SERVICES BOTH OLD AND RECENTLY INSTALLED ARE CLEARLY LOCATED ON SITE WITH THE CIVIL ENGINEER PRIOR TO CONSTRUCTION.

3. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRING ALL DAMAGE CAUSED TO SERVICES DURING CONSTRUCTION.

4. LAYOUT PLANS WILL BE AVAILABLE IN DWG & DXF FORMAT FOR GPS LAYOUT. CONTRACTOR MUST USE GPS LAYOUT, DIMENSIONS ON DRAWINGS ARE SHOW FOR VERIFICATION ONLY. REPORT ANY ON SITE DISCREPANCIES TO THE LANDSCAPE ARCHITECT IMMEDIATELY.

5. STAKE OUT DESIGN AND CONFIRM LAYOUT WITH LANDSCAPE ARCHITECT ON SITE PRIOR TO ROUGH GRADING.

6. PROVIDE TEMPORARY DRAINAGE MEASURES AS REQUIRED TO ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING.

LEGEND

- PROPERTY LINE
- 1.5m ht. CHAIN LINK FENCE W/ GATES - **ALTERNATE PRICE** - ORNAMENTAL FENCE W/ GATES
- 1.8m ht. CHAIN LINK FENCE
- PARKING FENCE
- LIMESTONE BLOCK SEATING
- WOOD STUMP
- BOULDER SEAT
- LIGHT STANDARD
- EV READY PARKING STALL - SEE ELECTRICAL

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JAMES HUDSON
Member No. 186
2023-03-24

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

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Steinbach, MB
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client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

drawing information

LAYOUT PLAN

drawn by: **SW**
approved by: **JH**

scale: **AS SHOWN**
date issued: **2023-03-24**
proj. #: **21-103**
rev. #: **R-1**

L1.2

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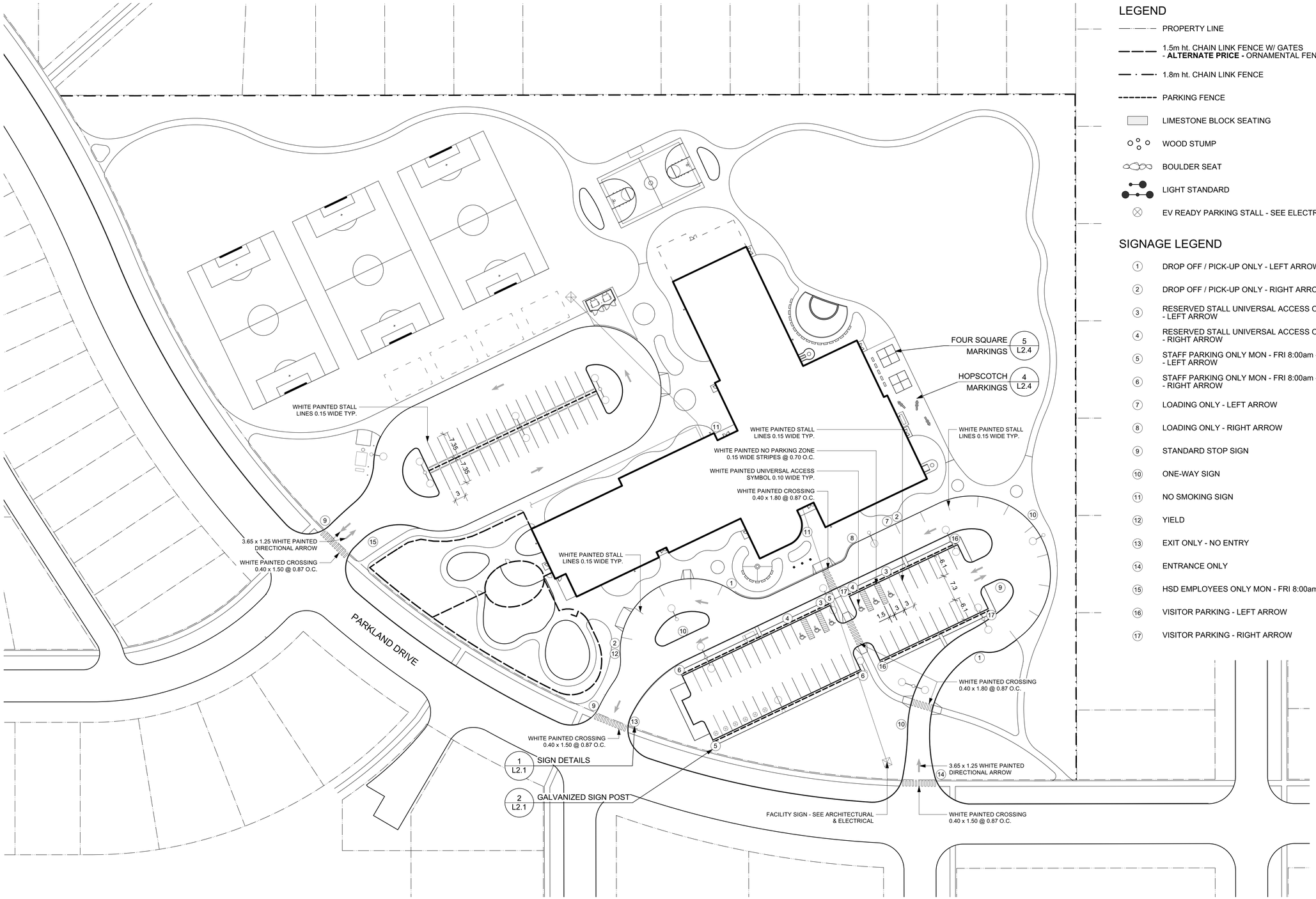

1 / L1.3 SIGNAGE & LINE PAINTING PLAN
Scale: 1:500

N

0 20 30 40 50 m
SCALE: 1:500

LEGEND

- PROPERTY LINE
- 1.5m ht. CHAIN LINK FENCE W/ GATES - **ALTERNATE PRICE -** ORNAMENTAL FENCE W/ GATES
- 1.8m ht. CHAIN LINK FENCE
- PARKING FENCE
- LIMESTONE BLOCK SEATING
- WOOD STUMP
- BOULDER SEAT
- LIGHT STANDARD
- EV READY PARKING STALL - SEE ELECTRICAL

SIGNAGE LEGEND

1. DROP OFF / PICK-UP ONLY - LEFT ARROW
2. DROP OFF / PICK-UP ONLY - RIGHT ARROW
3. RESERVED STALL UNIVERSAL ACCESS ONLY - LEFT ARROW
4. RESERVED STALL UNIVERSAL ACCESS ONLY - RIGHT ARROW
5. STAFF PARKING ONLY MON - FRI 8:00am - 4:00pm - LEFT ARROW
6. STAFF PARKING ONLY MON - FRI 8:00am - 4:00pm - RIGHT ARROW
7. LOADING ONLY - LEFT ARROW
8. LOADING ONLY - RIGHT ARROW
9. STANDARD STOP SIGN
10. ONE-WAY SIGN
11. NO SMOKING SIGN
12. YIELD
13. EXIT ONLY - NO ENTRY
14. ENTRANCE ONLY
15. HSD EMPLOYEES ONLY MON - FRI 8:00am - 4:00pm
16. VISITOR PARKING - LEFT ARROW
17. VISITOR PARKING - RIGHT ARROW

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2023-03-24

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NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

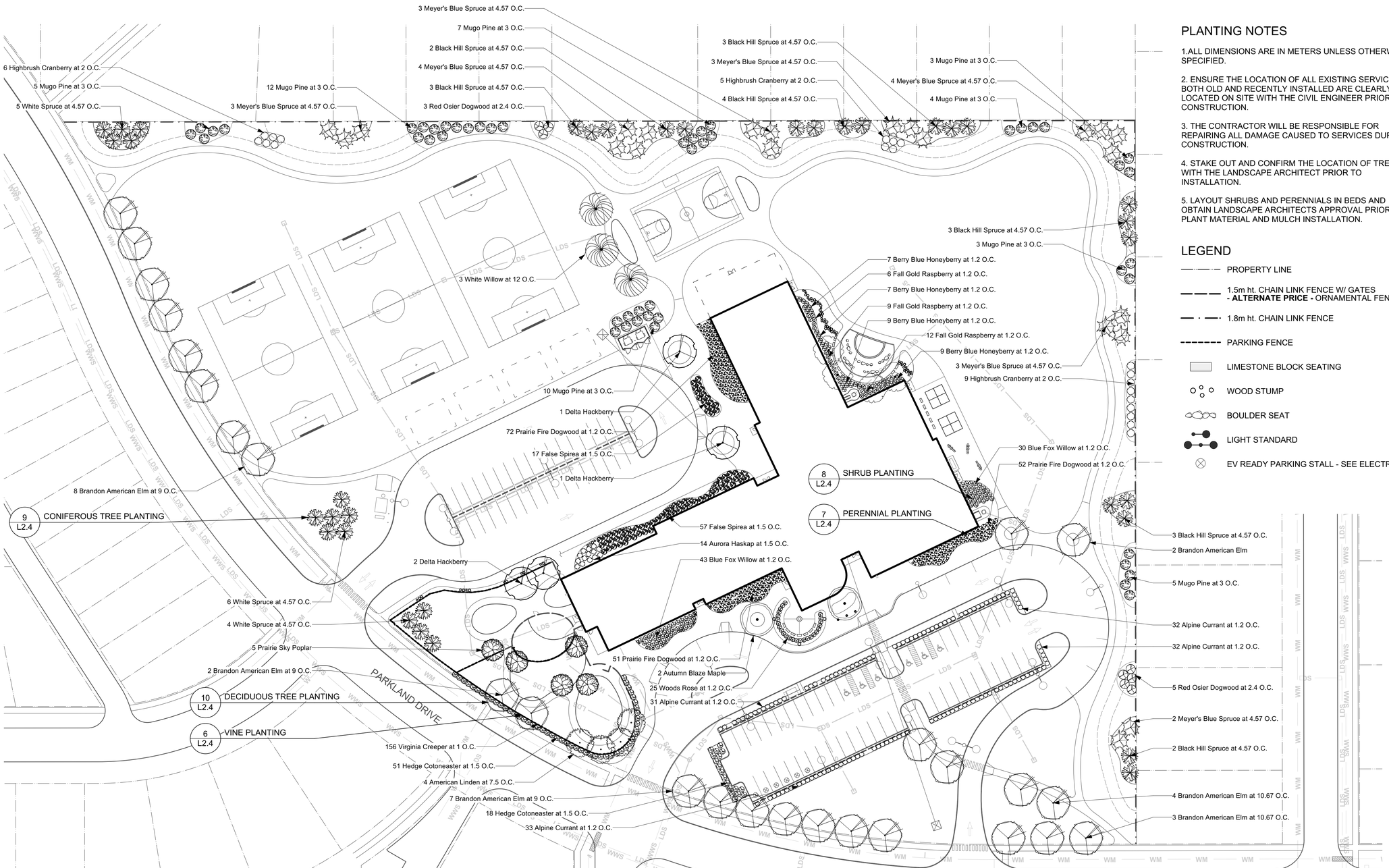
drawing information

SIGNAGE & LINE PAINTING PLAN

drawn by: **SW**
approved by: **JH**

scale: **AS SHOWN**
date issued: **2023-03-24**
proj. #: **21-103**
rev. #: **R-1**

L1.3



1 L1.4 PLANTING PLAN
Scale: 1:500

N
0 20 30 40 50 m
SCALE: 1:500

PLANTING NOTES

1.ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.

2. ENSURE THE LOCATION OF ALL EXISTING SERVICES BOTH OLD AND RECENTLY INSTALLED ARE CLEARLY LOCATED ON SITE WITH THE CIVIL ENGINEER PRIOR TO CONSTRUCTION.

3. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPAIRING ALL DAMAGE CAUSED TO SERVICES DURING CONSTRUCTION.

4. STAKE OUT AND CONFIRM THE LOCATION OF TREES WITH THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

5. LAYOUT SHRUBS AND PERENNIALS IN BEDS AND OBTAIN LANDSCAPE ARCHITECTS APPROVAL PRIOR TO PLANT MATERIAL AND MULCH INSTALLATION.

LEGEND

- PROPERTY LINE
- 1.5m ht. CHAIN LINK FENCE W/ GATES - **ALTERNATE PRICE -** ORNAMENTAL FENCE W/ GATES
- 1.8m ht. CHAIN LINK FENCE
- PARKING FENCE
- LIMESTONE BLOCK SEATING
- WOOD STUMP
- BOULDER SEAT
- LIGHT STANDARD
- EV READY PARKING STALL - SEE ELECTRICAL

Plant Schedule

Qty	Common Name	Botanical Name	Size	Comments
Deciduous Trees				
26	**Brandon American Elm**	Ulmus Americana 'Brandon'	50 mm cal.	3.5 to 4.0 m ht., 10 major branches 1.75 m above grade
4	**American Linden**	Tilia americana	50 mm cal.	3.5 to 4.0 m ht., 10 major branches 1.75 m above grade
4	**Delta Hackberry**	Picea meyeri	50 mm cal.	3.5 to 4.0 m ht., 10 major branches 1.75 m above grade
5	**Prairie Sky Poplar**	Populus 'Prairie Sky'	50 mm cal.	3.5 to 4.0 m ht., 10 major branches 1.75 m above grade
2	**Autumn Blaze Maple**	Acer x freemanii 'Jeffersred'	50 mm cal.	3.5 to 4.0 m ht., 10 major branches 1.75 m above grade
4	**Clump Paper Birch**	Betula papyrifera 'clump'	50 mm cal.	3.5 to 4.0 m ht., 10 major branches 1.75 m above grade
3	**White Willow**	Salix alba	50 mm cal.	3.5 to 4.0 m ht., 10 major branches 1.75 m above grade
Coniferous Trees				
20	**Black Hill Spruce**	Picea glauca var. densata	3.0 m ht.	Evenly branched, full bushy trees, no broken leaders, well branched to grade. B&B or tree mover, wire basket. Guy wire.
22	**Meyer's Blue Spruce**	Picea meyeri	3.0 m ht.	Evenly branched, full bushy trees, no broken leaders, well branched to grade. B&B or tree mover, wire basket. Guy wire.
15	**White Spruce**	Picea glauca 'Pendula'	3.0 m ht.	Evenly branched, full bushy trees, no broken leaders, well branched to grade. B&B or tree mover, wire basket. Guy wire.

Qty	Common Name	Botanical Name	Size	Comments
Deciduous Shrubs				
175	**Prairie Fire Dogwood**	Cornus alba 'Prairie Fire'	300 to 400 mm ht.	5 major basal branches. Well formed, bushy plants. Container stock.
8	**Red Osier Dogwood**	Cornus sericea	300 to 400 mm ht.	5 major basal branches. Well formed, bushy plants. Container stock.
69	**Hedge Cotoneaster**	Cotoneaster lucidus	300 to 400 mm ht.	5 major basal branches. Well formed, bushy plants. Container stock.
14	**Aurora Haskap**	Lonicera caerulea 'Aurora'	300 to 400 mm ht.	5 major basal branches. Well formed, bushy plants. Container stock.
32	**Berry Blue Honeyberry**	Lonicera caerulea 'Berry Smart Blue'	300 to 400 mm ht.	5 major basal branches. Well formed, bushy plants. Container stock.
128	**Alpine Currant**	Ribes alpinum	300 to 400 mm ht.	5 major basal branches. Well formed, bushy plants. Container stock.
25	**Woods Rose**	Rosa woodsii	300 to 400 mm ht.	5 major basal branches. Well formed, bushy plants. Container stock.
27	**Fall Gold Raspberry**	Rubus 'Fall Gold'	300 to 400 mm ht.	5 major basal branches. Well formed, bushy plants. Container stock.
73	**Blue Fox Willow**	Salix brachycarpa	300 to 400 mm ht.	5 major basal branches. Well formed, bushy plants. Container stock.
74	**False Spirea**	Sorbaria sorbifolia	300 to 400 mm ht.	5 major basal branches. Well formed, bushy plants. Container stock.
20	**Highbrush Cranberry**	Viburnum trilobum	300 to 400 mm ht.	5 major basal branches. Well formed, bushy plants. Container stock.
Coniferous Shrubs				
49	**Mugo Pine**	Pinus mugo	300 mm dia.	Well formed, even growth. B&B or container stock.
Vines				
156	**Virginia Creeper**	Parthenocissus quinquefolia	#1 Size Pot	2 yr. plants from division. No. 1 grade, well developed, vigorous root system.

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issue / rev.

#	date	issue notes
1	2023-03-24	ISSUED FOR CONSTRUCTION

professional seals

JAMES HUDSON
Member No. 186
2023-03-24

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

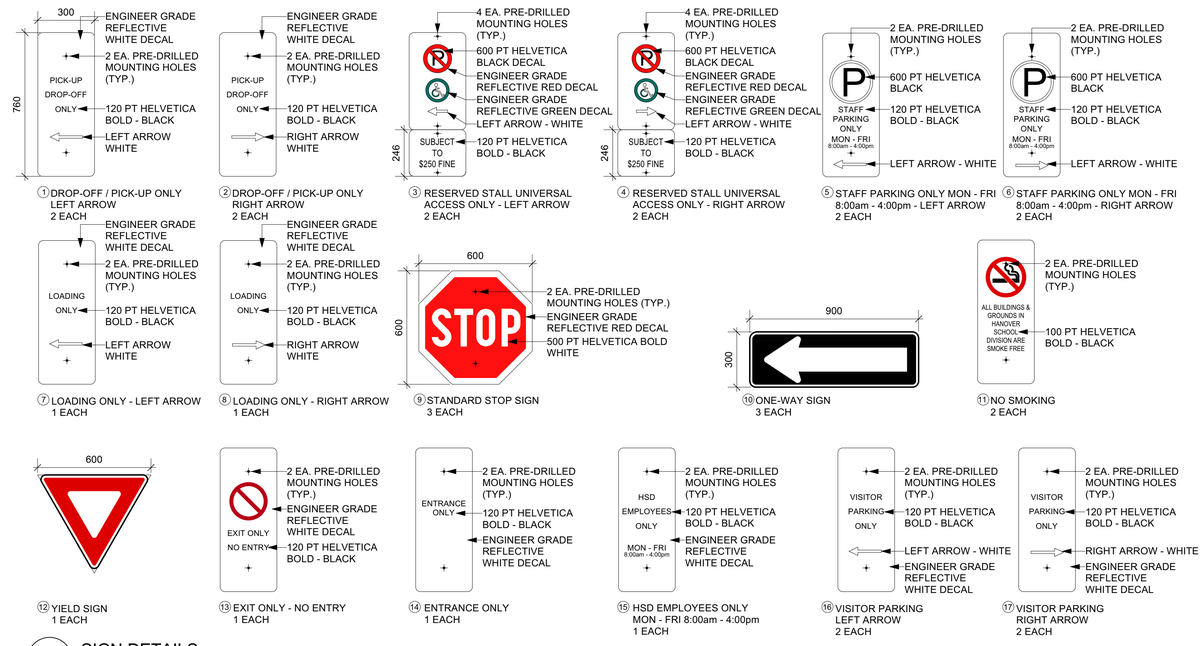
drawing information

PLANTING PLAN

drawn by: **SW**
approved by: **JH**

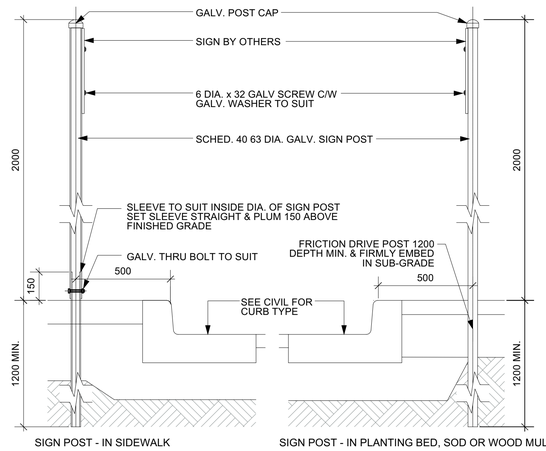
scale: **AS SHOWN**
date issued: **2023-03-24**
proj. #: **21-103**
rev. #: **R-1**

L1.4

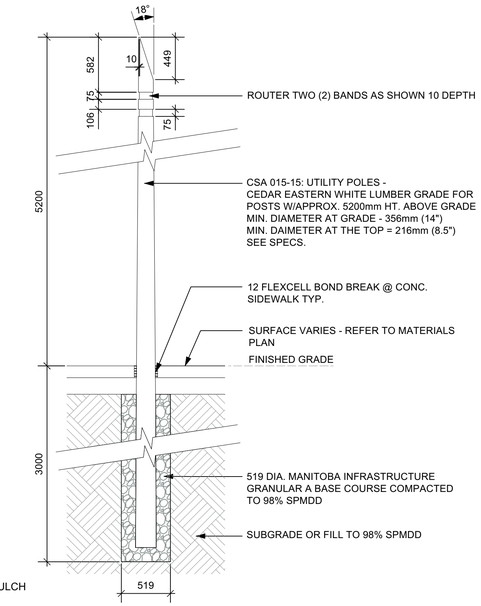


1 DROP-OFF / PICK-UP ONLY LEFT ARROW 2 EACH
2 DROP-OFF / PICK-UP ONLY RIGHT ARROW 2 EACH
3 RESERVED STALL UNIVERSAL ACCESS ONLY - LEFT ARROW 2 EACH
4 RESERVED STALL UNIVERSAL ACCESS ONLY - RIGHT ARROW 2 EACH
5 STAFF PARKING ONLY MON - FRI 8:00am - 4:00pm - LEFT ARROW 2 EACH
6 STAFF PARKING ONLY MON - FRI 8:00am - 4:00pm - RIGHT ARROW 2 EACH
7 LOADING ONLY - LEFT ARROW 1 EACH
8 LOADING ONLY - RIGHT ARROW 1 EACH
9 STANDARD STOP SIGN 3 EACH
10 ONE-WAY SIGN 3 EACH
11 NO SMOKING 2 EACH
12 YIELD SIGN 1 EACH
13 EXIT ONLY - NO ENTRY 1 EACH
14 ENTRANCE ONLY 1 EACH
15 HSD EMPLOYEES ONLY MON - FRI 8:00am - 4:00pm 1 EACH
16 VISITOR PARKING LEFT ARROW 2 EACH
17 VISITOR PARKING RIGHT ARROW 2 EACH

1 / L2.1 SIGN DETAILS
Scale: 1:15

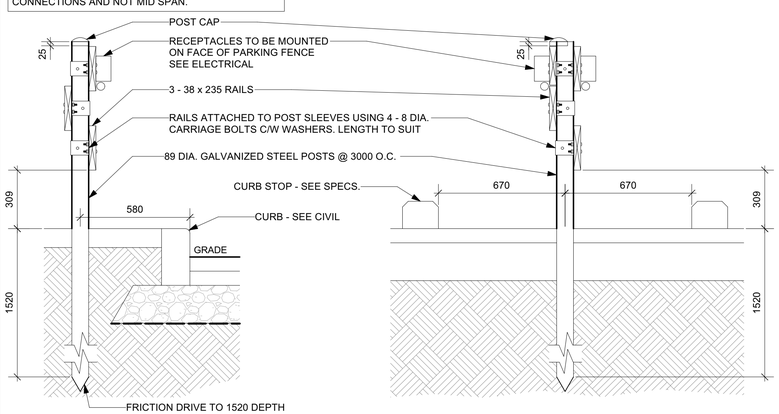


2 / L2.1 GALVANIZED SIGN POST
Scale: 1:15



6 / L2.1 WOOD POLE
Scale: 1:30

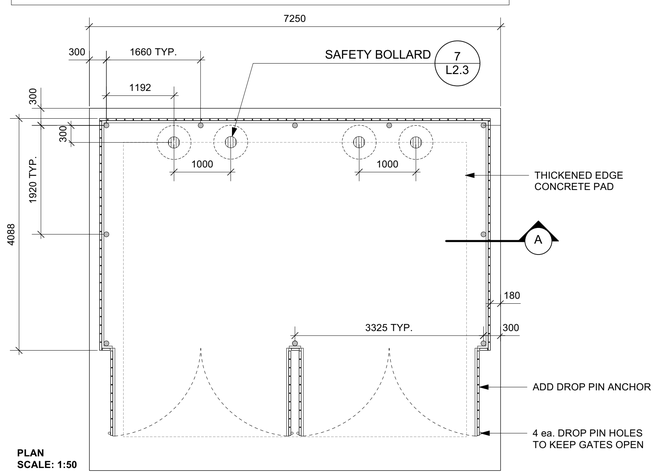
NOTE:
1. ALL HARDWARE TO BE HOT DIPPED GALVANIZED.
2. WOOD FOR FENCE TO BE ACQ PRESSURE TREATED SPF COLOUR: CEDAR TONE BROWN.
3. ENSURE JOINTS IN RAILS OCCUR AT POST CONNECTIONS AND NOT MID SPAN.



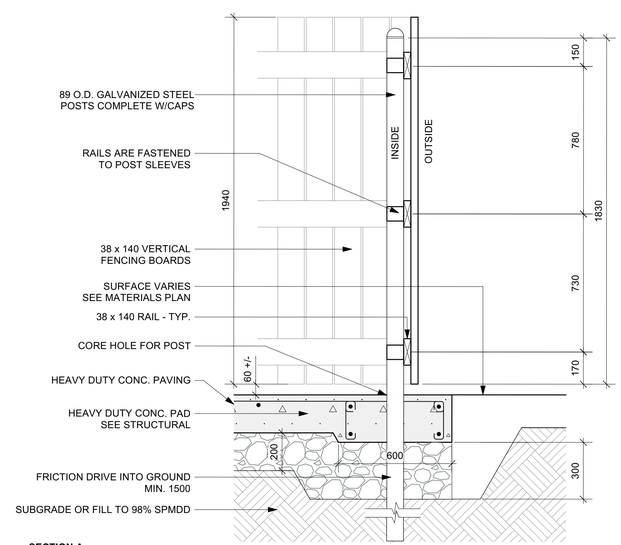
3 / L2.1 SOUTH PARKING FENCE
Scale: 1:15

4 / L2.1 NORTH PARKING FENCE
Scale: 1:15

NOTE:
1. WELDED GATE FRAMES & GATE HARDWARE PER STANDARD CHAINLINK FENCE CONSTRUCTION.
2. FACE GATES WITH 19 x 140 P.T. BOARDS, FINISH TO MATCH ENCLOSURE WALLS.
3. INSTALL GATES W/ CANE BOLT & LOCKABLE LATCH HARDWARE & GATE WHEELS.
4. ALL WOOD TO BE PRESSURE TREATED.



PLAN
SCALE: 1:50



SECTION A
SCALE: 1:15

5 / L2.1 GARBAGE ENCLOSURE
Scale: AS SHOWN

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JAMES HUDSON
Member No. 186
2023-03-24

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91 Parkland Drive, Steinbach, MB

drawing information

DETAILS 1

drawn by: **SW**
approved by: **JH**

scale: **AS SHOWN**
date issued: **2023-03-24**
proj. #: **21-103**
rev. #: **R-1**

L2.1

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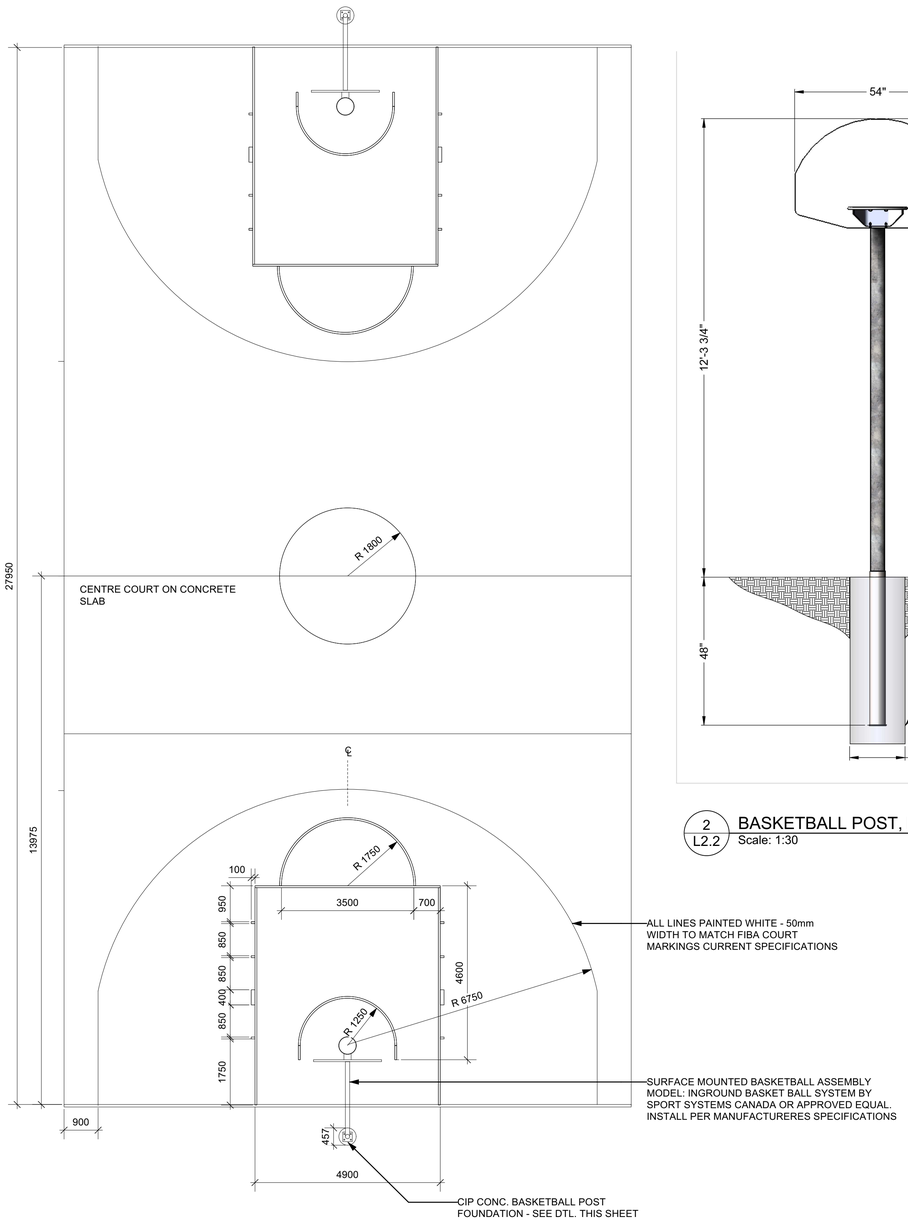
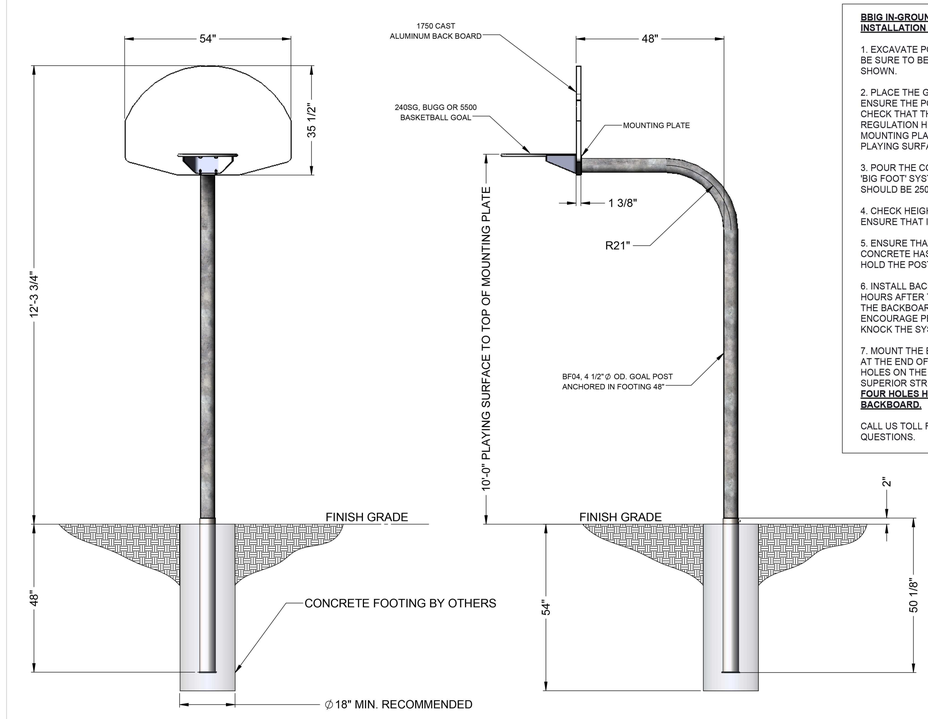


1 / L2.2 BASKETBALL COURT LINE PAINTING LAYOUT - ALTERNATE PRICE
Scale: 1:75



2 / L2.2 BASKETBALL POST, BACKBOARD & FOUNDATION - ALTERNATE PRICE
Scale: 1:30

BBIG IN-GROUND BASKETBALL SYSTEM INSTALLATION INSTRUCTIONS

1. EXCAVATE POST HOLE AS SHOWN IN THE DIAGRAM. BE SURE TO BELL OUT THE BOTTOM OF THE HOLE AS SHOWN.

2. PLACE THE GOAL INTO THE POST HOLE AND ENSURE THE POST IS PLUMB IN ALL DIRECTIONS. CHECK THAT THE POST SITS AT THE CORRECT REGULATION HEIGHT OF 10'-0" FROM THE TOP OF THE MOUNTING PLATE TO THE TOP OF THE FINISHED PLAYING SURFACE.

3. POUR THE CONCRETE BASE AS SHOWN, USING THE 'BIG FOOT' SYSTEM OR SIMILAR METHOD. CONCRETE SHOULD BE 2500 psi WITH 2" SLUMP.

4. CHECK HEIGHT AND PLUMBNESS FREQUENTLY TO ENSURE THAT INSTALLATION IS CORRECT.

5. ENSURE THAT THE POST IS HELD PLUMB UNTIL CONCRETE HAS HAD A SUFFICIENT CURE TIME TO HOLD THE POST IN PLACE.

6. INSTALL BACKBOARD AND GOAL A MINIMUM OF 72 HOURS AFTER THE CONCRETE IS POURED. HANGING THE BACKBOARD AND GOAL TOO SOON WILL ENCOURAGE PEOPLE TO PLAY ON IT AND COULD KNOCK THE SYSTEM OUT OF PLUMB.

7. MOUNT THE BACKBOARD AND GOAL ON THE PLATE AT THE END OF THE POST. USE THE FOUR BOTTOM HOLES ON THE BACKBOARD TO ENSURE OUR SUPERIOR STRENGTH SYSTEM. **DO NOT USE THE FOUR HOLES HALFWAY UP THE BACK OF THE BACKBOARD.**

CALL US TOLL FREE AT 1-877-600-4667 WITH ANY QUESTIONS.

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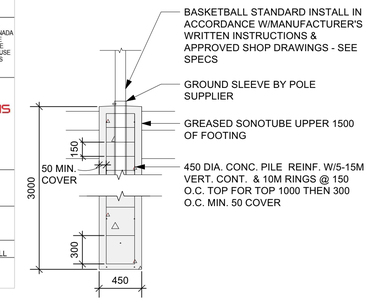
CLIENT: SPORT SYSTEMS

TITLE: INGROUND BASKET BALL SYSTEM INSTALLATION INSTRUCTIONS

REV.	DATE	DWG No.	
0	2020-09-15	BB-BF04 - GRSLV- INSTALL	
SCALE		DES.	PAGE
N.T.S.		John Cox	1 OF 1



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Member No. 186
2023-03-24

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Steinbach, MB

drawing information

DETAILS 2

drawn by: **SW**
approved by: **JH**

scale: **AS SHOWN**
date issued: **2023-03-24**
proj. #: **21-103**
rev. #: **R-1**

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

L2.2

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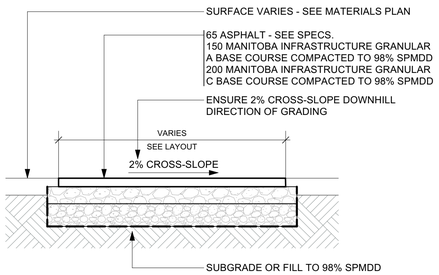
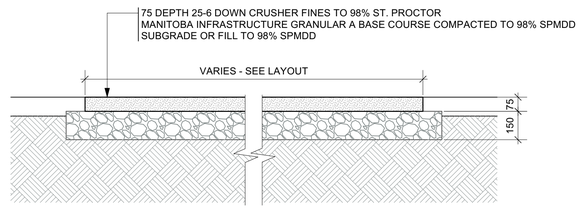
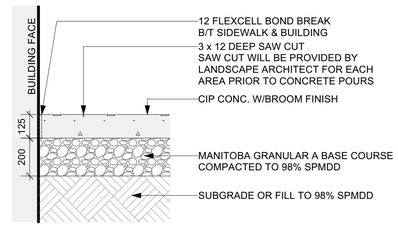


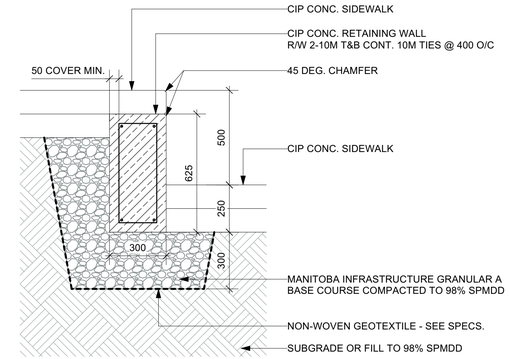
1 L2.3 ASPHALT PATH
Scale: 1:25



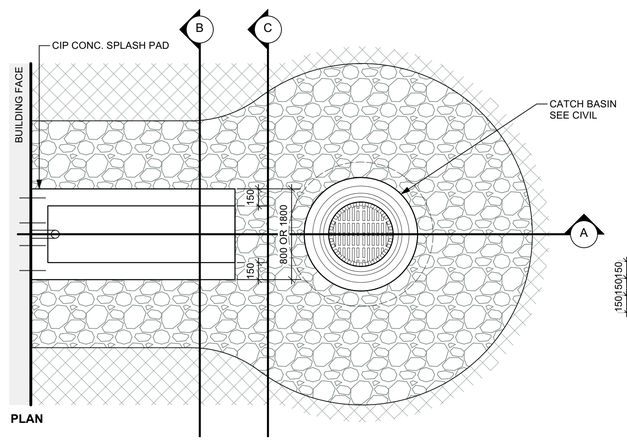
2 L2.3 GRANULAR PATH
Scale: 1:15

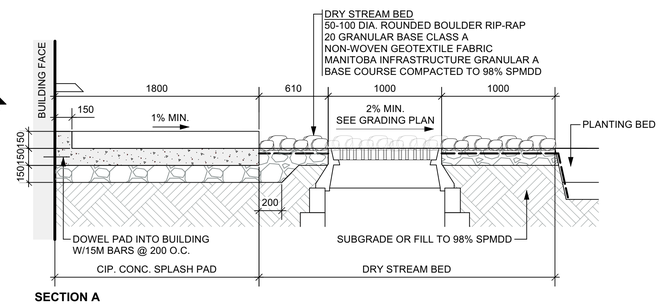


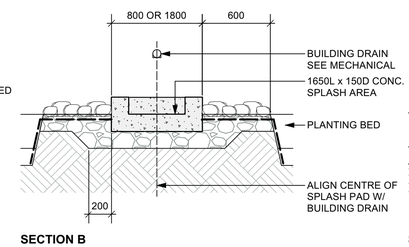
3 L2.3 CONC. SIDEWALK
Scale: 1:15

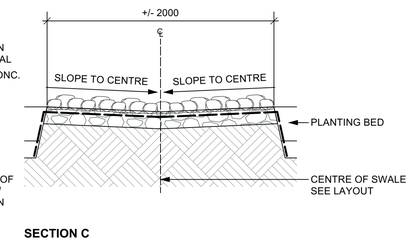


4 L2.3 CIP CONC. RETAINING WALL
Scale: 1:15

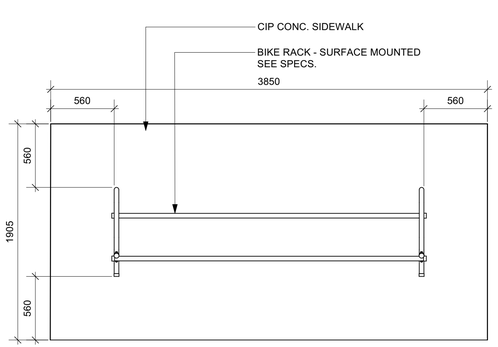




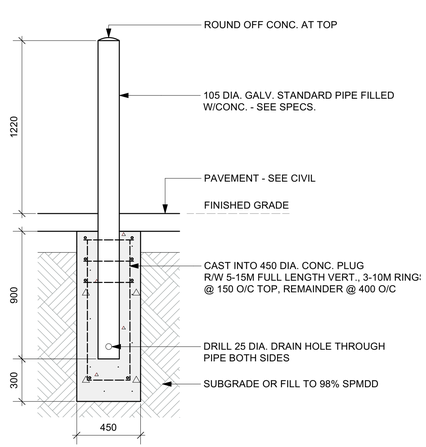




5 L2.3 CIP. CONC. SPLASH PAD
Scale: 1:25



6 L2.3 BIKE RACK CONC. PAD
Scale: 1:25



7 L2.3 SAFETY BOLLARD
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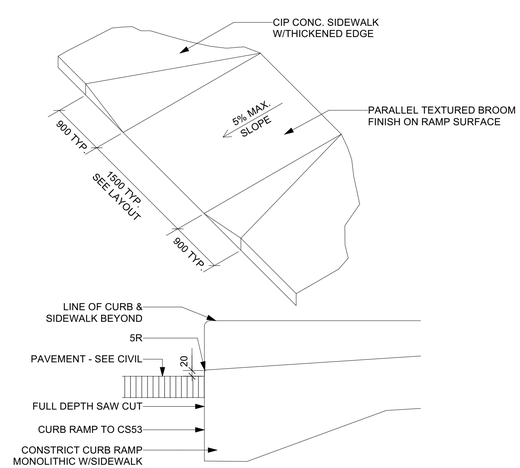

8 L2.3 ACCESSIBLE RAMP
Scale: 1:10

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drawing information

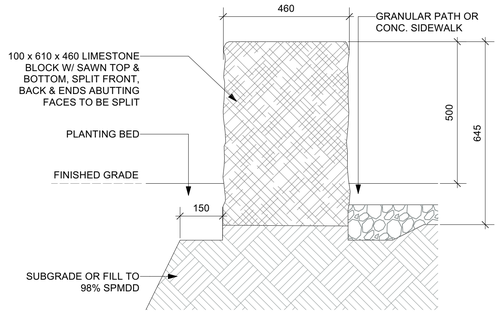
DETAILS 3

drawn by: **SW**
approved by: **JH**

scale: **AS SHOWN**
date issued: **2023-03-24**
proj. #: **21-103**
rev. #: **R-1**

L2.3

NOTES:
1. PROVIDE SHOP DRAWINGS FOR LIMESTONE BLOCKS AND OBTAIN APPROVAL PRIOR TO INSTALLATION.



1 / L2.4 LIMESTONE BLOCK SEATING
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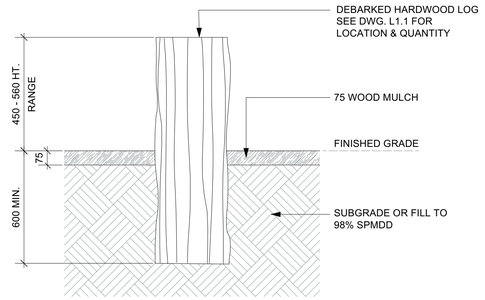
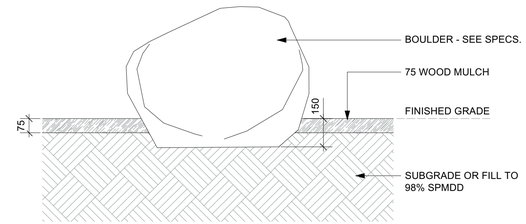
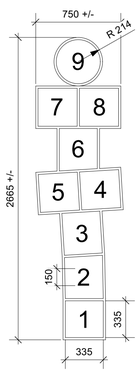


2 / L2.4 WOOD STUMP
Scale: 1:15

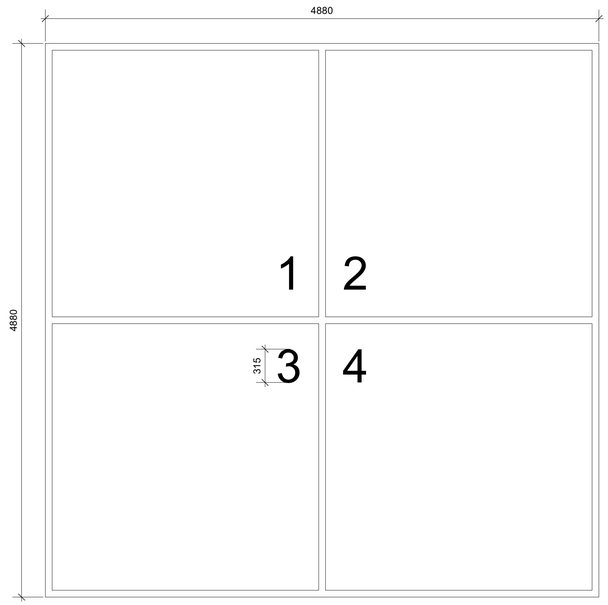


3 / L2.4 BOULDER SEAT
Scale: 1:15

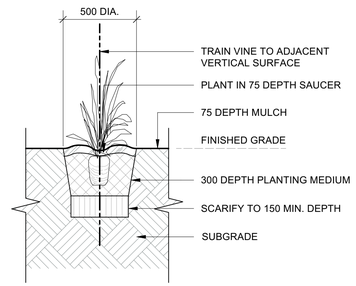
PAVEMENT GAME NOTES:
1. ALL NUMBERS & LINES TO BE YELLOW, 50mm WIDE.
2. DIGITAL FILE TO BE PROVIDED FOR TEMPLATE / LAYOUT.
3. FONT FOR NUMBERS TO BE 'FUTURA'.



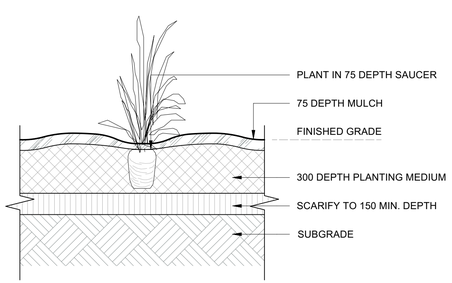
4 / L2.4 HOPSCOTCH MARKINGS
Scale: 1:25



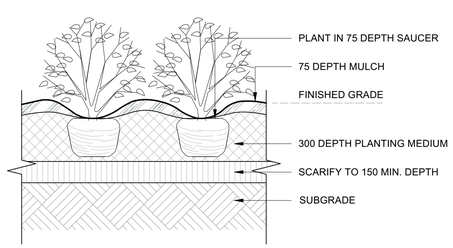
5 / L2.4 FOUR SQUARE MARKINGS
Scale: 1:25



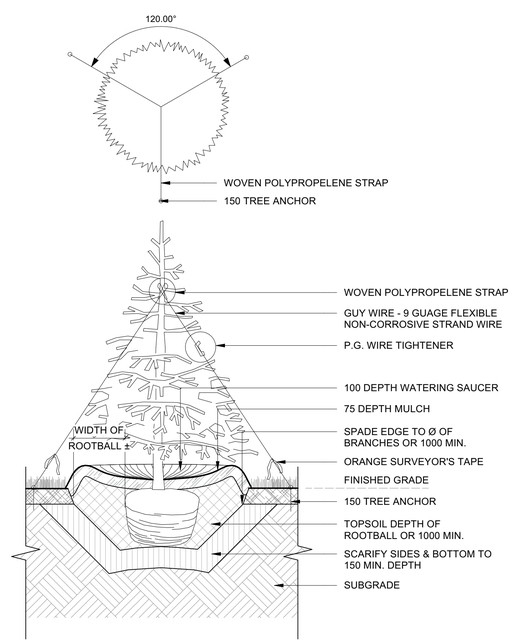
6 / L2.4 VINE PLANTING
Scale: 1:20



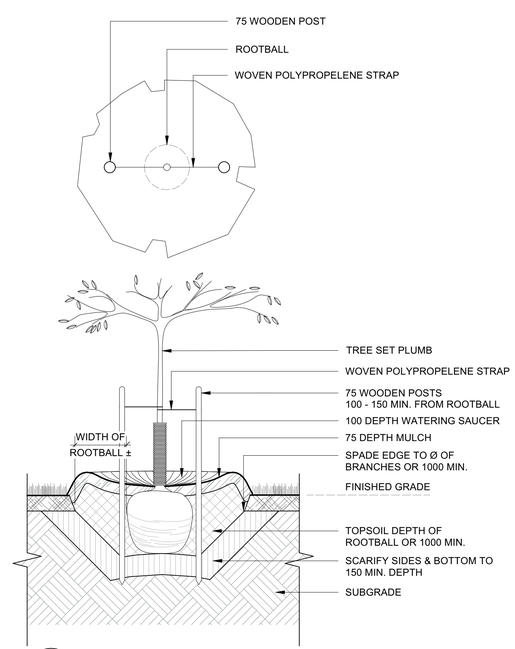
7 / L2.4 PERENNIAL PLANTING
Scale: 1:20



8 / L2.4 SHRUB PLANTING
Scale: 1:20



9 / L2.4 CONIFEROUS TREE PLANTING
Scale: 1:20



10 / L2.4 DECIDUOUS TREE PLANTING
Scale: 1:20

This drawing must not be scaled. The contractor shall verify all dimensions and other data on site prior to commencement of work. All discrepancies, errors, and omissions are to be reported to the architect. Drawing and specifications, as instruments of service, are the property of the architect, the copyright in the same being reserved to him. No reproduction may be made without the permission of the architect, and when made, must bear his name. All prints to be returned to the architect on request.

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issue / rev.

#	date	issue notes
1	2023-03-24	ISSUED FOR CONSTRUCTION

professional seals

project information

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Steinbach, MB
Canada

client

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NEW WEST STEINBACH ELEMENTARY SCHOOL
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drawing information

DETAILS 4

drawn by: **SW**
approved by: **JH**

scale: **AS SHOWN**
date issued: **2023-03-24**
proj. #: **21-103**
rev. #: **R-1**

L2.4

GENERAL NOTES

1. THESE DRAWINGS SHALL NOT BE SCALED.
2. THE CONTRACTOR IS TO SITE VERIFY ALL DIMENSIONS.
3. THE CONTRACTOR IS TO REPORT ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.
4. THE CONTRACTOR IS TO REVIEW AND COORDINATE ALL CIVIL, LANDSCAPE, ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR OPENINGS THROUGH FLOORS, WALLS, AND ROOFS.
5. MAINTAIN REQUIRED F.R.R. AT ALL OPENINGS IN ALL RATED WALLS & PARTITIONS, REFER TO A0-02 FIRE SAFETY PLANS FOR FIRE SEPARATIONS. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES ARE TO BE FIRE-STOPPED AND SEALED WITH ULC APPROVED FIRE-STOPPING SYSTEM TO MAINTAIN THE INTEGRITY OF THE FIRE SEPARATION, AND PROVIDE A SMOKE-TIGHT BARRIER.
6. ALL PRODUCTS AND MATERIALS ARE TO BE USED AND INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.
7. PROVIDE TRANSITION STRIPS BETWEEN DIFFERENT FLOOR FINISHES AS REQUIRED. REFER TO SPEC.
8. DIMENSIONS TYPICAL FROM FACE OF STUD, FACE OF CONC., OR GRID LINE.
9. ROUGH-IN FOR ALL APPLIANCES IN CONTRACT, REFER TO MECH. / ELEC.
10. REFER TO MECH. / ELEC. FOR ALL EQUIPMENT LAYOUTS. COORDINATE LOCATION OF MECHANICAL & ELECTRICAL WITH STRUCTURAL.
11. PROVIDE INTERIOR BLINDS AT ALL EXTERIOR WINDOWS UNLESS OTHERWISE INDICATED. REFER TO WINDOW SCHEDULE & SPECIFICATION.
12. PROVIDE BLOCKING AS REQ'D FOR ALL WALL AND CEILING MOUNTED EQUIPMENT, FIXTURES, AND MILLWORK. MOUNTING HEIGHTS / LOCATIONS TO BE CONFIRMED WITH ARCHITECT WHERE NOT SHOWN ON DRAWING OR INDICATED IN SPECIFICATION.
13. AT ARCHITECTURAL, MECHANICAL & ELECTRICAL EQUIPMENT / FIXTURES IN 1-HR F.R.R. FIRE-RATED CONCRETE BLOCK WALLS, PROVIDE CONTINUOUS 1-HR F.R.R. BEHIND RECESS BY CONCRETE - FILLING CONCRETE BLOCK FOR A MIN. 73 MM (AS PER MBC TABLE D-2.1.1)

INTERIOR PARTITION TYPES SCHEDULE

GENERAL NOTES:

1. SEE STRUCT. FOR CONC. FILLED CORES AT CMU WALLS
2. EXPOSED GWB TO BE ABUSE RESISTANT TO 2400 ABOVE FIN. FLR.
3. AT ALL GWB PARTITIONS ADD SILL GASKET AND ACOUSTIC SEALANT AT BASE PLATE
4. REFER TO FIRE SEPARATION PLANS FOR LOCATIONS OF REQUIRED FIRE RATINGS
5. REFER TO STRUCT. FOR STEEL WALL BRACING AT PARTIAL HEIGHT WALLS
6. BEARING CONC. BLK WALLS TO BE STANDARD BLK, NON-BEARING TO BE NORMAL-WEIGHT BLK (SEE STRUCT.) REFER TO STRUCT. FOR CONC. FILLED CORES.
7. WHERE OUTSIDE EDGES OF CMU WALLS WILL BE EXPOSED, PROVIDE EITHER SINGLE OR DOUBLE BULLNOSE BLOCK SHAPES TO SUIT. WHERE OUTSIDE EDGES OF GWB WALLS WILL BE EXPOSED, PROVIDE STAINLESS STEEL CORNER GUARD TYP. REFER TO SPEC.
8. WHERE OUTSIDE EDGES OF GWB PARTITIONS WILL BE EXPOSED, PROVIDE STAINLESS STL. CORNER GUARD
9. ALL GWB TO BE (TYPE X) UNLESS OTHERWISE INDICATED.
10. ALL EXPOSED GWB, PLYWOOD, CONC., MISC. METALS TO BE PAINTED UNLESS OTHERWISE INDICATED.
11. REFER TO SPECIFICATION - ROOM FINISH SCHEDULE - FOR INTERIOR PARTITION FINISHES
12. OFFSET ELEC. BOXES MIN. 300MM ON WALLS BETWEEN ROOMS.
13. THE GENERAL CONTRACTOR IS TO COORDINATE AND PROVIDE ADEQUATE WOOD BLOCKING OR CONC. FILLED CORES IN ALL WALLS AND PARTITIONS FOR SECURE FASTENING OF ALL WALL MOUNTED MILLWORK, EQUIPMENT, FIXTURES, ACCESSORIES AND MECH. AND ELEC. PANELS. MOUNTING HEIGHTS TO BE CONFIRMED WITH THE CONSULTANT, WHERE NOT SHOWN ON DRAWINGS.
14. MAINTAIN REQUIRED F.R.R. AT ALL OPENINGS IN ALL RATED WALLS AND FIRE WALLS. REFER TO FIRE SAFETY DIAGRAMS & SECTIONS FOR EXTENT OF FIRE-RATED WALLS AND FIRE SEPARATIONS.
15. FIRE-RATING OF INTERIOR PARTITIONS SHALL BE CONTINUOUS ON ALL SIDES. BEHIND ANY RECESSED PANELS, HEATERS, FIXTURES AND ACCESSORIES.
16. AT TOP OF INTERIOR NON-LOAD BEARING WALLS, ALLOW DEFLECTION JOINT. (SLOTTED DEEP TRACK AT STL. STUD WALLS AND STL. L. SUPPORTS AT CMU WALLS AS PER STRUCT.) FILL DECK FLUTE OR SPACE ABOVE WALLS W/ ROCK WOOL INSUL AS PER DTL.
17. ALL PARTITIONS TO EXTEND FROM FLOOR SLAB TO U/S STRUCTURAL FLOOR OR ROOF DECK ABOVE (UNLESS OTHERWISE INDICATED). REFER TO SECTIONS & STRUCT. ALL PARTITIONS TO BE SOUND-RATED UNLESS OTHER NOTED - ADD CONTINUOUS PERIM. SILL GASKET AND ACOUSTIC SEALANT AT BASE PLATE (TYP.) BOTH SIDES OF PARTITION.
18. CAULK ALL WALL PENETRATIONS, ELEC. BOXES, ETC. WHERE EXPOSED TO VIEW. PROVIDE PAINTABLE FIRE-STOP OR ACOUSTICAL CAULKING. ALL PARTITIONS ARE TO BE SOUND-RATED UNLESS OTHERWISE NOTED.
19. FILL CORES OF CONC. BLK WHERE FIRE-RATING IS REQUIRED
20. AT LOCATIONS WHERE DIFFERENT THICKNESSES OF GYPSUM BOARD ABUT, THE FACES SHALL BE FLUSH.

P1

P1 - 190 CONC. BLK PARTITION (STC 50)
(MBC APPENDIX A - TABLE A-9.10.3.1.A , SYSTEM B1b)

- 190 CONCRETE MASONRY UNIT (SEE STRUCT.)

P1F

P1F - 190 CONC. BLK FIRE SEPARATION (STC 50)
(UP TO 1.5 HR F.R.R.)
(MBC APPENDIX A - TABLE A-9.10.3.1.A , SYSTEM B1b)
(REFER TO A0-02 FIRE SAFETY DIAGRAMS FOR LOCATION AND REQ'D RATING)

P2

P2 - 190 CONC. BLK PARTITION - PARTIAL HEIGHT

- 190 CONCRETE MASONRY UNIT (SEE STRUCT.)

* **NOTE:** PARTIAL HEIGHT PARTITION, REFER TO SECTIONS & INT. ELEVATIONS
* **NOTE:** REFER TO SPEC. & DETAILS FOR CAP OR CONSTRUCTION ABOVE

P3

P3 - 290 CONC. BLK PARTITION (STC 50)
(MBC APPENDIX A - TABLE A-9.10.3.1.A , SYSTEM B1b SIM.)

- 290 CONCRETE MASONRY UNIT, UNLESS OTHERWISE INDICATED (SEE STRUCT.)

P3F

P3F - 290 CONC. BLK FIRE SEPARATION (STC 50)
(UP TO 1.5 HR F.R.R.)
(MBC APPENDIX A - TABLE A-9.10.3.1.A , SYSTEM B1b Sim.)
(REFER TO A0-02 FIRE SAFETY DIAGRAMS FOR LOCATION AND REQ'D RATING)

P4

P4 - 190 CONC. BLK FIRE SEPARATION W/ FULLY GROUTED CORES
(F.R.R. = 2-HOUR) (REFER TO MBC TABLE D-2.1.1. REQUIRING 113MM CONCRETE THICKNESS FOR 2HR F.R.R.)
(MBC APPENDIX A - TABLE A-9.10.3.1.A , SYSTEM B1b SIM.)
(REFER TO A0-02 FIRE SAFETY DIAGRAMS FOR LOCATION AND REQ'D RATING)

- 190 CONCRETE MASONRY UNIT (SEE STRUCT.)
- GROUT SOLID (ALL CORES FILLED) (SEE STRUCT.)

P5

P5 - 140 CONC. BLK PARTITION (STC 48)
(MBC APPENDIX A - TABLE A-9.10.3.1.A , SYSTEM B1a)

- 140 CONCRETE MASONRY UNIT (SEE STRUCT.)

P5F

P5F - 140 CONC. BLK FIRE SEPARATION (STC 48)
(UP TO 1 HR F.R.R.)
(MBC APPENDIX A - TABLE A-9.10.3.1.A , SYSTEM B1a)
(REFER TO A0-02 FIRE SAFETY DIAGRAMS FOR LOCATION AND REQ'D RATING)

P6

P6 - STL. STUD PARTITION (STC 51)
(MBC APPENDIX A - TABLE A-9.10.3.1.A , SYSTEM S7a)

- 16 GWB (TYPE X)
- 152 STL. STUDS @ 406 O/C, STUD SPACE FILLED W/ MINERAL FIB. ACOUSTIC BATT
- 16 GWB (TYPE X)

* **NOTE:** GWB TO BE ABUSE RESISTANT BELOW 2400MM A.F.F.
* **NOTE:** INSTALL PROTECTIVE PVC WALL COVERING OVER GWB AS SPECIFIED. REFER TO INTERIOR ELEVATIONS & SPEC. / ROOM FINISH SCHED.

P6F

P6F - STL. STUD FIRE SEPARATION (STC 51)
(UP TO 1 HR F.R.R.)
(MBC APPENDIX A - TABLE A-9.10.3.1.A , SYSTEM S4a)
(REFER TO A0-02 FIRE SAFETY DIAGRAMS FOR LOCATION AND REQ'D RATING)

P6B

P6B - STL. STUD PARTITION (STC 59)
(MBC APPENDIX A - TABLE A-9.10.3.1.A , SYSTEM S9a)

- (2) LAYERS 16 GWB (TYPE X)
- 152 STL. STUDS @ 406 O/C, STUD SPACE FILLED W/ MINERAL FIB. ACOUSTIC BATT
- (2) LAYERS 16 GWB (TYPE X)

* **NOTE:** GWB TO BE ABUSE RESISTANT BELOW 2400MM A.F.F.
* **NOTE:** INSTALL PROTECTIVE PVC WALL COVERING OVER GWB AS SPECIFIED. REFER TO INTERIOR ELEVATIONS & SPEC. / ROOM FINISH SCHED.

INTERIOR PARTITION TYPES SCHEDULE CONTINUED

P7

P7 - STL. STUD PARTITION INFRONT OF CONC. BLK
(MBC APPENDIX A - TABLE A-9.10.3.1.A , SYSTEM B10a SIM.)

- CONC. BLK PARTITION (TYPE INDICATED ELSEWHERE, REFER TO PLANS & SCHEDULES)
- 25MM SPACE
- 92 STL. STUDS @ 406 O/C, STUD SPACE FILLED W/ ACOUSTIC BATT
- (2) LAYERS 16 GWB (TYPE X)

* **NOTE:** GWB TO BE ABUSE RESISTANT BELOW 2400MM A.F.F.
* **NOTE:** INSTALL PROTECTIVE PVC WALL COVERING OVER GWB AS SPECIFIED. REFER TO INTERIOR ELEVATIONS & SPECIFICATION / ROOM FINISH SCHED.

P8

P8 - STL. STUD PARTITION - PARTIAL HEIGHT

- 16 GWB (TYPE X)
- 92 STL. STUDS @ 406 O/C
- 16 GWB (TYPE X)

* **NOTE:** GWB TO BE ABUSE RESISTANT BELOW 2400MM A.F.F.
* **NOTE:** INSTALL PROTECTIVE PVC WALL COVERING OVER GWB AS SPECIFIED. REFER TO INTERIOR ELEVATIONS & SPECIFICATION / ROOM FINISH SCHED.
* **NOTE:** PARTIAL HEIGHT PARTITION, REFER TO SECTIONS & INT. ELEVATIONS

P8B

P8B - STL. STUD PARTITION INFRONT OF CONC. BLK

- CONC. BLK PARTITION (TYPE INDICATED ELSEWHERE, REFER TO PLANS & SCHEDULES)
- 92 STL. STUDS @ 406 O/C
- 16 GWB (TYPE X)

* **NOTE:** GWB TO BE ABUSE RESISTANT BELOW 2400MM A.F.F.
* **NOTE:** INSTALL PROTECTIVE PVC WALL COVERING OVER GWB AS SPECIFIED. REFER TO INTERIOR ELEVATIONS & SPECIFICATION / ROOM FINISH SCHED.

P9

P9 - 100 CONC. BLK PARTITION

- 100 CONCRETE MASONRY UNIT (SEE STRUCT.)

EXTERIOR WALL TYPES SCHEDULE

GENERAL NOTES:

1. SEAL AROUND BRICK TIES W/ MASTIC
2. SEAL INSUL. GAPS W/ CLOSED CELL SPRAY FOAM INSUL.
3. SEAL AROUND ALL PENETRATIONS. ALL CONNECTIONS BETWEEN MATERIALS TO BE AIR TIGHT.
4. WHERE OUTSIDE EDGES OF CMU WALLS WILL BE EXPOSED, PROVIDE EITHER SINGLE OR DOUBLE BULLNOSE BLOCK SHAPES TO SUIT.
5. SEE STRUCT. FOR CONC. FILLED CORES AT CMU WALLS
6. FILL CORES OF CONC. BLK WHERE FIRE-RATING IS REQUIRED.
7. MAINTAIN REQUIRED F.R.R. AT ALL OPENINGS IN ALL RATED WALLS AND FIRE WALLS. REFER TO FIRE SAFETY DIAGRAMS & SECTIONS FOR EXTENT OF FIRE-RATED WALLS AND FIRE SEPARATIONS.
8. THE GENERAL CONTRACTOR IS TO COORDINATE AND PROVIDE ADEQUATE WOOD BLOCKING OR CONC. FILLED CORES IN ALL WALLS AND PARTITIONS FOR SECURE FASTENING OF ALL WALL MOUNTED MILLWORK, EQUIPMENT, FIXTURES, ACCESSORIES AND MECH. AND ELEC. PANELS. MOUNTING HEIGHTS TO BE CONFIRMED WITH THE CONSULTANT, WHERE NOT SHOWN ON DRAWINGS.
9. THERMAL CLIPS AND METAL FURRING CHANNELS TO BE SPACED AS REQ'D BY CLADDING. (NOTE: CLADDING SHOP DWGS TO INCL. THERMAL CLIPS AND FURRING CHANNEL SPACING STAMPED / SEALED BY STRUCT. ENG. LICENSED IN MANITOBA).

E1

E1 - INSULATED CONC. FOUNDATION WALL / GRADE BEAM

- 50MM (2") (TYPE 4 SIM.) XPS RIGID INSUL. (FASTEN W/ CLIPS AS PER INSUL. SUPPLIER) OVER 76MM (3") (TYPE 4) XPS RIGID INSUL. (TOTAL R-25) (CONC. FACE OUTSIDE LAYER OF INSULATION FOR TOP 600MM)
- A.B. / V.B. (TYPE A) SELF-ADHERED
- CONC. GRADE BEAM OR CONC. FOUNDATION WALL(SEE STRUCT.)

E2

E2 - CONC. FOUNDATION WALL

- A.B. / V.B. (TYPE A) SELF-ADHERED (EXTERIOR FACE)
- CONC. FOUNDATION WALL (SEE STRUCT.)

E3

E3 - MASONRY VENEER ON CONC. BLK WALL

- 90MM MASONRY BRICK OR QUARRIED STONE VENEER (REFER TO SPEC.) DEPTH TO BE 90MM UNLESS OTHERWISE INDICATED*.
- 38 AIR SPACE
- 2 LAYERS XPS (TYPE 3) RIGID INSUL. - 50MM OVER 76MM (TOTAL R-25) (ALL JOINTS STAGGERED)
- A.B/ V.B. (TYPE D) SELF-ADHERED
- 190 OR 290 CONCRETE MASONRY UNIT (SEE STRUCT.)

* **NOTE:** REFER TO EXT. ELEVATIONS FOR EXTENT OF MASONRY BRICK OR QUARRIED STONE EXTENT, PATTERNS, AND LOCATIONS OF 75MM QUARRIED STONE.

E4

E4 - MASONRY VENEER ON FIRE RATED CONC. BLK WALL
(F.R.R. = UP TO 2-HOUR) (REFER TO MBC TABLE D-2.1.1. REQUIRING 113MM CONCRETE THICKNESS FOR 2HR F.R.R.)
(MBC APPENDIX A - TABLE A-9.10.3.1.A , SYSTEM B1b SIM.)
(REFER TO A0-02 FIRE SAFETY DIAGRAMS FOR LOCATION AND REQ'D RATING)

- 90 MASONRY VENEER (REFER TO SPEC.)
- 38 AIR SPACE
- 2 LAYERS XPS (TYPE 3) RIGID INSUL. - 50MM OVER 76MM (TOTAL R-25) (ALL JOINTS STAGGERED)
- A.B/ V.B. (TYPE D) SELF-ADHERED
- CONCRETE MASONRY UNIT (SEE STRUCT.)
- GROUT SOLID (ALL CORES FILLED) (SEE STRUCT.)

* **NOTE:** REFER TO EXT. ELEVATIONS FOR MASONRY EXTENT AND PATTERNS.
* **NOTE:** FOR 2HR FRR - FIRE SEPARATION LOCATIONS, SEE FIRE SAFETY DIAGRAMS AND PLANS. REFER TO MBC TABLE D-2.1.1. REQUIRING 113MM CONCRETE THICKNESS FOR 2HR FRR.

E5

E5 - COMPOSITE METAL PANEL ON CONC. BLK WALL

- COMPOSITE METAL PANEL (VERTICAL) (MP-1) REFER TO ELEVATIONS
- 25 HORIZ. Z-BARS (SPACED AS REQ'D BY CLADDING)
- THERMAL CLIPS (DEPTH OF INSUL.) (SCREWED TO CMU. (SPACED AS REQ'D BY INSUL. AND CLADDING)
- 2 LAYERS XPS (TYPE 3) RIGID INSUL. 50MM OVER 76MM (TOTAL R-25) (ALL JOINTS STAGGERED)
- A.B/ V.B. (TYPE D) SELF-ADHERED
- CONCRETE MASONRY UNIT (SEE STRUCT.)

* **NOTE:** REFER TO EXT. ELEVATIONS FOR EXTENT AND PATTERNS.

E5F

E5F - COMPOSITE METAL PANEL ON RATED CONC. BLK WALL
(UP TO 1.5 HR F.R.R.)
(MBC APPENDIX A - TABLE A-9.10.3.1.A , SYSTEM B1b)
(REFER TO A0-02 FIRE SAFETY DIAGRAMS FOR LOCATION AND REQ'D RATING)

- SAME ASSEMBLY AS PER 'E5' NOTED ABOVE.
- SUBSTITUTE SEMI-RIGID MINERAL WOOL BATT INSUL. IN LIEU OF XPS RIGID INSUL.

EXTERIOR WALL TYPES SCHEDULE CONTINUED

E6

E6 - COMPOSITE METAL PANEL ON STL. STUD INFILL WALL

- COMPOSITE METAL PANEL (VERTICAL) (MP-1) REFER TO ELEVATIONS
- 25 HORIZ. Z-BARS (SPACED AS REQ'D BY CLADDING)
- THERMAL CLIPS (DEPTH OF INSUL.) (SCREWED TO STL. STUD (SPACED AS REQ'D BY INSUL. AND CLADDING)
- 2 LAYERS XPS (TYPE 3) RIGID INSUL. 50MM OVER 76MM (TOTAL R-25) (ALL JOINTS STAGGERED)
- A.B/ V.B. (TYPE D) SELF-ADHERED
- 16 EXT. (TYPE X) GLASS SHEATHING
- PRE-ENG. STEEL STUD INFILL @ MAX. 406 O/C (SPACING AS REQ'D BY THERMAL CLIPS AND CLADDING) (REFER TO SCTN DTLS)
- 16 (TYPE X) GWB

* **NOTE:** REFER TO EXT. ELEVATIONS FOR EXTENT AND PATTERNS.

E7

E7 - METAL SIDING ON CONC. BLK WALL

- METAL PANEL SIDING (VERTICAL) (MP-2) REFER TO ELEVATIONS
- 50 HOR. Z-BARS @ 406 O/C
- 38 VERT. Z-BARS @ 406 O/C
- THERMAL CLIPS (DEPTH OF INSUL.) C/W CONT. 25x25 MTL ANGLE CONNECTING THERMAL CLIPS TOGETHER (SCREWED TO STL. STUD (SPACED AS REQ'D BY INSUL. AND CLADDING)
- 2 LAYERS XPS (TYPE 3) RIGID INSUL. 50MM OVER 76MM (TOTAL R-25) (ALL JOINTS STAGGERED)
- A.B/ V.B. (TYPE D) SELF-ADHERED
- CONCRETE MASONRY UNIT (WIDTH VARIES) (SEE STRUCT.)

* **NOTE:** REFER TO EXT. ELEVATIONS FOR EXTENT AND PATTERNS.

ROOF & SOFFIT TYPES SCHEDULE

GENERAL NOTES:

1. PROVIDE ACOUSTIC STEEL ROOF DECK C/W INSULATION W/N DECK FLUTES IN - ENTRY COMM. 1001, LIBRARY 1042, MPR 2106, GYM 1017, MINI GYM 1021, CORR. 2000, STAIR 1,2,3,5 (REFER TO STRUCT. AND SPEC.)
2. AT EXP. STEEL ROOF DECK (NON-ACOUSTIC AND ACOUSTIC) - SCREWS TO BE FASTENED THROUGH TOP FLUTES ONLY, SCREW LENGTH NOT TO EXCEED BELOW BOTTOM FLUTE SURFACE, SCREWS TO BE PAINTED OUT TO WITH PAINTED ROOF
3. FOR PAINTING OF EXPOSED STEEL ROOF STRUCT. - REFER TO SPEC. / ROOM FINISH SCHEDULE.
4. COORDINATE STRUCTURAL JOIST SPACING TO AVOID ALIGNMENT WITH PARALLEL PARTITIONS BELOW. REFER TO AND COORDINATE WITH STRUCTURAL.

R1

R1 - TYP. ROOF - MOD. BIT. ROOF
- SBS MOD.BIT. ROOFING CAP SHEET
- POLY-ISO HD BASE PANEL C/W SBS MOD.BIT. ROOFING BASE SHEET
- (2) LAYERS STAGGERED 89MM POLYISO RIGID INSUL. (MIN. R-40)
- TAPERED POLYISO RIGID INSULATION, 1200 x 1200 x THICKNESSES REQ'D TO ACHIEVE BACK-SLOPES, CRICKETS AND ANGLES
- SELF-ADHERED SBS MOD. BIT. VAPOUR BARRIER
- 16MM (TYPE 'X') GYPSUM FIBRE ROOF BOARD (MECH. FASTEN TO DECK)
- STEEL DECKING ON STEEL STRUCTURE (REFER TO STRUCT.)
  - NON-ACOUSTIC AND ACOUSTIC DECKING C/W INSULATION W/N DECK FLUTES (REFER TO STRUCT.) FOR TYPES/LOCATIONS.
  - NOTE: WHERE UNDERSIDE OF ROOF DECK IS EXPOSED AND PAINTED, USE COLOURED SCREWS TO MATCH PAINTED ROOF DECK COLOUR AND CAREFULLY LOCATE SCREWS TO PENETRATE TOP FLUTES ONLY).
- INTERIOR FINISH (REFER TO RCP AND SCHEDULE)

S1

S1 - TYP. SOFFIT @ EXT. CANOPIES & OVERHANGS
- ROOF / FLOOR ASSEMBLY INDICATED ELSEWHERE
- PRE-ENG. SUSPENSION SYSTEM / STL STUD FRAMEWORK C/W BRACING TO SUPPORT SOFFIT PANELS - SPACING TO BE COORDINATED W/ SOFFIT PANEL SIZE AND LAYOUT
- PRE-FIN. LINEAR METAL PANELS, REFER TO SPEC.

* SUPPORTIVE FRAMEWORK TO BE CORROSIVE RESISTANT

FLOOR TYPES SCHEDULE

GENERAL NOTES:
1. CONC. TOPPING OVER HOLLOWCORE TO BE LEVEL
2. COORDINATE STRUCTURAL JOIST SPACING TO AVOID ALIGNMENT WITH PARALLEL WALLS BELOW. REFER TO STRUCT.

F1

F1 - TYP. FLOOR - CONC. TOPPING ON HOLLOWCORE
(RATED AT 2ND FLOOR) (F.R.R. = 1 HOUR REQUIRED AT 2ND FLOOR)
- FINISHED FLOORING - REFER TO SPECIFICATION AND SCHEDULE
- 100 CONC. TOPPING (SEE STRUCT.)
- PRECAST HOLLOWCORE PLANKS (SEE STRUCT.)

F2

F2 - LIBRARY, GYM & MINI-GYM FLOOR - STRUCTURAL SLAB
- FINISHED FLOORING - REFER TO SPECIFICATION AND SCHEDULE
- STRUCTURAL CONC. SLAB (SEE STRUCT.)
- 20 MIL. V.B. LINER SHEET (TYPE K)
- 100 RIGID INSULATION (TYPE 4) (TOTAL R-20) (MECH. FASTEN TO CONC. SLAB)
- VOID FORM ON COMPACTED SUBGRADE (SEE STRUCT.)

*NOTE: SEAL V.B. LINER SHEET TO GRADE BEAMS / CONC. FOUNDATION WALLS. PROVIDE 150MM CONT. FOLD IN V.B. AT PERIMETER FOR SLACK. REFER TO SECTIONS.

F4

F4 - EXTERIOR ENTRY SLABS
- REINFORCED CONC. SLAB W/ FINISH AS SCHED. (SEE STRUCT.)
- VOID FORM ON COMPACTED SUBGRADE (SEE STRUCT.)

F5

F5 - LIFT PIT FLOOR - CONC. SLAB
- REINFORCED CONC. SLAB (SEE STRUCT.)
- 20 MIL V.B. (TYPE K)
- VOID FORM ON COMPACTED SUBGRADE

* **NOTE:** SEAL V.B. LINER SHEET TO GRADE BEAMS / CONC. FOUNDATION WALLS. PROVIDE 150MM CONT. FOLD IN V.B. AT PERIMETER FOR SLACK. REFER TO SECTIONS.

F6

F6 - CRAWLSPACE FLOOR
- 20 MIL. V.B. LINER SHEET (TYPE K)
- 50MM LEVELING SAND
- COMPACT NATIVE SUB-GRADE, BACK-FILL AGAINST GRADE BEAMS / FOUNDATION WALLS TO HEIGHT SHOWN ON DRAWINGS. REFER TO SECTIONS & STRUCT.

* **NOTE:** SEAL V.B. LINER SHEET TO GRADE BEAMS / CONC. FOUNDATION WALLS. PROVIDE 150MM CONT. FOLD IN V.B. AT PERIMETER FOR SLACK. REFER TO SECTIONS.

* **NOTE:** PROVIDE RUBBER WALKING PADS ON TOP OF FLOOR ASSEMBLY AS SHOWN ON A2-00 FOUNDATION PLAN, REFER TO SPEC.

LIST OF ABBREVIATIONS:

ACT	Acoustic Tile
AB	Air Barrier
AC	Air Conditioner
ADD.	Addendum
ALUM.	Aluminum
AFC	At Finish Ceiling
AFF	At Finish Floor
AH	Attic Access Hatch
ANOD	Anodized
APPX	Approximate
ASPH	Asphalt
AVB	Air Vapour Barrier
B.B.	Bulletin Board
B.F.	Barrier Free
B.M.	Bench Mark
BLKG.	Blocking
BR.	Brick
Bsb	Baseboard
B/U	Built up
B.U.R.	Built up Roof
CAB	Cabinet
C.B.	Catch
Basin	
Cbd.	Chalkboard
CD	Contract Documents
C.J.	Control Joint
CL	Closet
C/L	Centre Line
CLG.	Ceiling
CLR	Clear
C.M.U.	Concrete Masonry Unit
CONC.	Concrete
Col.	Column
Const	Construction
C.R.	Curtain Rod
CPT	Carpet
C.T.	Ceramic Tile
c/w	Complete With
D.F.	Drinking Fountain
DIA.	Diameter
D.W.	Dishwasher
D/O	Door Opener
ELEV	Elevation
ELVTR	Elevator
EQ	Equal
E/W	Each Way
E/S	Each Side
ER	Epoxy Resinous Flooring
EXT	Exterior
F.D.	Floor Drain
F.E.	Fire Extinguisher
F.E.C.	Fire Extinguisher Cabinet
Ft	Feet
F.H.C.	Fire Hose Cabinet
F/F	Face to Face
Fin	Finish
F/O	Face of
F.A.P.	Fire Annuciator Panel
F.H.C.	Fire Hose Cabinet
FLR	Floor
FTG	Footing
RFG	Refridgerator
FR	Freezer
FRF	Flocked Resilient Flooring
GA.	Gauge
GALV.	Galvanized
G.B.	Grab Bar
G.C.	General Contractor
G.I.	Galvanized Iron
GL.	Glass/Glazing
G.1.S.	Good One Side etc...
Grid	Gridline
GWB.	Gypsum WallBoard
HD	Hard
H.D.	Hand Dryer
HB.	Hardboard
HCWD.	Hollow Core Wood
HT	Height
HWT	Hot Water Tank
I.D.	Inside Diameter
I/I	Inside to Inside
Int	Interior
Insul	Insulation
JT	Joint
Jst	Joist
L	Linoleum
Ltg	Lighting
L.F.	Light Fixture
L.H.	Left Hand
LAV	Lavatory
LMC	Linear Metal Ceiling
Mas	Masonry
Max	Maximum
MEZZ.	Mezzanine
M.H.	Manhole
M.	Mirror
m	Metre
mm	Millimetre
Min	Minimum
Misc	Miscellaneous
M.O.	Masonry Opening
MTL	Metal
M.C.	Medicine Cabinet
MWP	Membrane Waterproofing
MIC	Microwave
M.B.C	Manitoba Building Code
M.B.H.	Mop & Broom Holder
M.R.	Moisture Resistant
N.A.	Not Applicable
N.B.C.	National Building Code
N.D.	Sanitary Napkin Disposal
N.V.	Sanitary Napkin Vendor
N.I.C.	Not in Contract
N.T.S.	Not to Scale
No.	Number
O.C.	On Center
O.D.	Outside Diameter
O/H	Overhead
O/O	Out to Out
OSB	Oriented Strand Board
O.W.S.J.	Open Web Steel Joist
P.T.D.	Paper Towel Dispenser
P/C	Precast
P.C.N.	Proposed Change Notice
P.G.	Paint Grade
PL.	Plaster
PLAM	Plastic Laminate
PLYWD	Plywood
PREFAB	Prefabricated
PREFIN	Prefinished
PRELIM	Preliminary
Prk'g	Parking
P.S.	Pressed Steel
PT	Paint
PT'D	Painted
P.T.	Pressure Treated
P.V.C.	Polyvinylchloride
Q.T.	Quarry Tile
R.	Riser
R.A.	Return Air
R.B.	Rubber Base
RCP	Refleted Ceiling plan
REQ'D.	Required
REV.	Revision
R.D.	Roof Drain
R.H.	Robe Hook
R.O.	Rough Opening
R.&S.	Rod & Shelf
R.T.	Rubber Tile
RUB	Rubber
S.	Stove
S.A.	Supply Air
S.D.	Soap Dispenser
SH.	Shelf
S.P.	Shower Partition
SPH	Sump Pit Hatch
S/S	Stainless Steel
STC	Sound Transmission Coefficient
STL	Steel
Sq	Square
S.V.	Sheet Vinyl
Sect	Section
Spec	Specifications
Spec'd	Specified
Struct	Structural
T	Tread
T.B.	Towel Bar
Tbd	Tackboard
TEX	Spray Texture Finish
T/I	Tenant improvement
T.& G.	Tongue & Groove
T.O.	Top Of
T.P.	Toilet Partition
T.P.D.	Toilet Paper Dispenser
TYP	Typical
UNFIN	Unfinished
U.H.	Unit Heater
U.N.O.	Unless Noted Otherwise
VAR.	Varnish
VEST.	Vestibule
VB	Vapour Barrier
V.G.	Varnish Grade
V.T.	Vinyl Tile
V.W.C.	Vinyl Wall Covering
w/	with
w/i	within
w/o	without
W.B.	Whiteboard
W.C.	Water Closet
WD	Wood
W.P.	Waterproofing
W.R.	Waste Receptacle
WT	Weight
X	Existing (as prefix)
xst'g	"Existing"

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issue / rev.

#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

PROVINCE OF MANITOBA — LINDSAY OSTER — 2023-03-24 — REGISTERED ARCHITECT

PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. — No. 028 — APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

drawing information

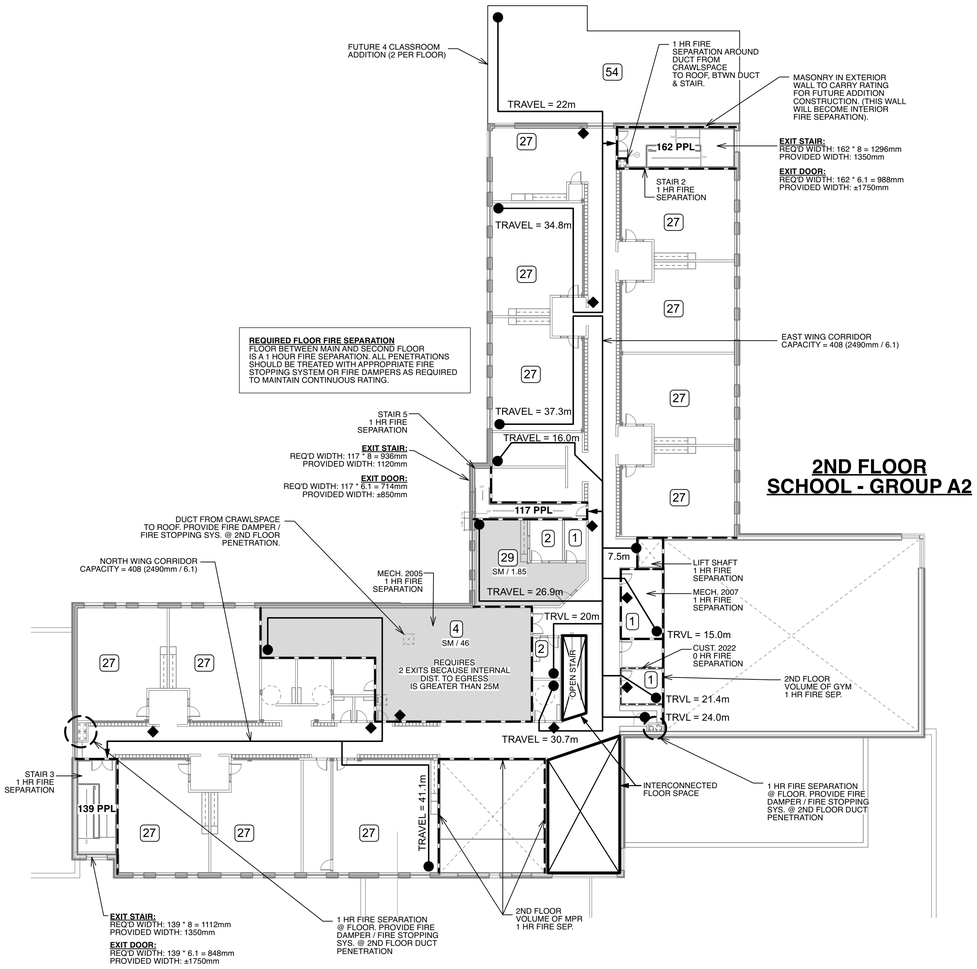
SCHEDULES

drawn by: **SK**
approved by: **LO**

scale: **1:100**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

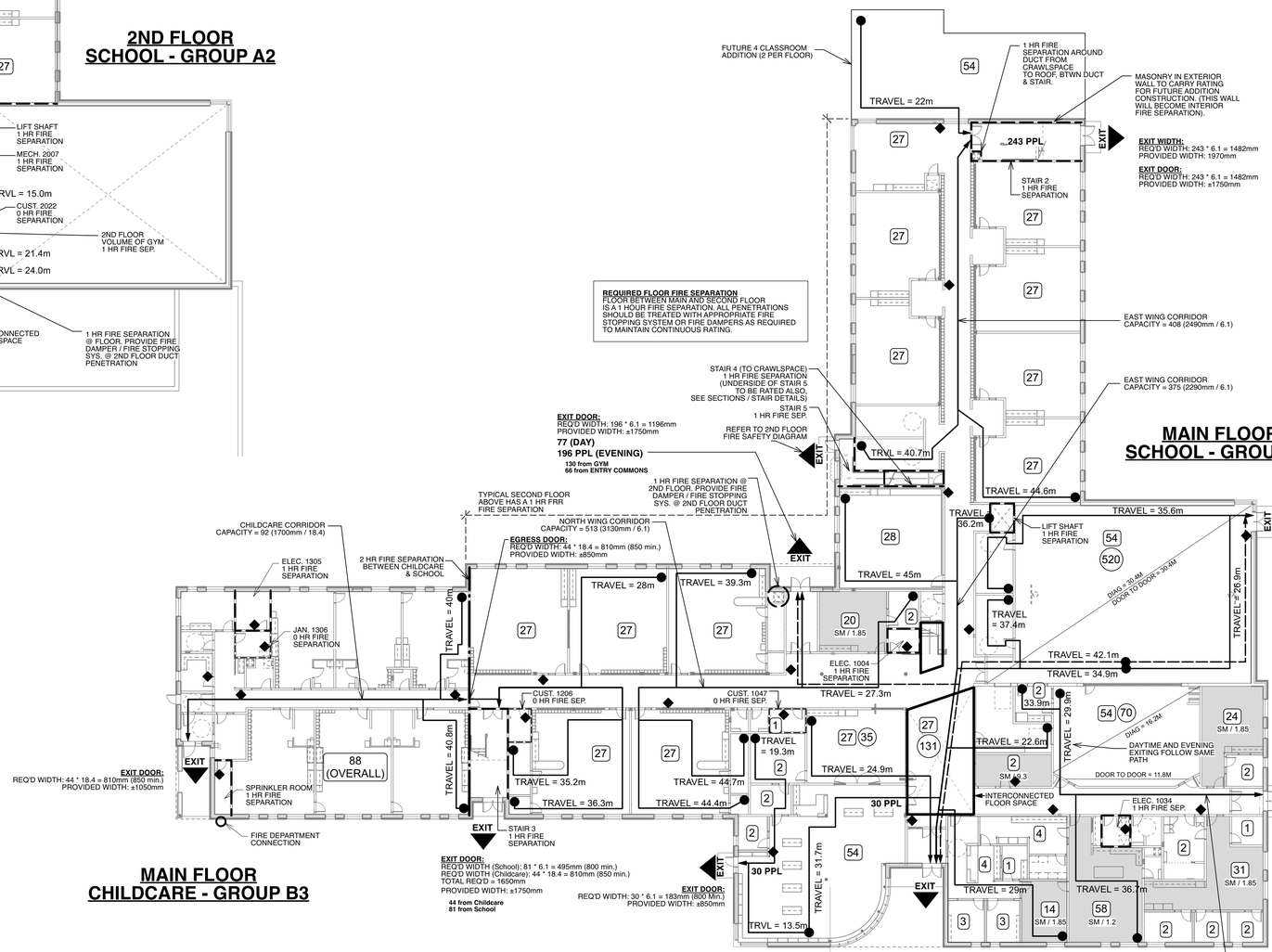
NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

A0 01



2 A0-02 SECOND FLOOR FIRE SAFETY DIAGRAM
1 : 250

N



MAIN FLOOR
CHILDCARE - GROUP B3

1 A0-02 MAIN FLOOR FIRE SAFETY DIAGRAM
1 : 250

N

FIRE SAFETY DIAGRAM LEGEND:

(FOR EXITING CALCULATIONS & DIMENSIONS, WORST-CASE DISTRIBUTION OF OVERALL BUILDING OCCUPANT LOAD IS ASSUMED BASED ON ANTICIPATED OCCUPANT LOADS OF SPECIFIC SPACES & DOES NOT REPRESENT OVERALL EXPECTED OCCUPANT LOAD OF BUILDING)

- (#) SITUATIONAL OCCUPANT LOAD DURING SCHOOL OPERATING HOURS - DEFINED BY # OF PERSONS
- (# / SM / ##) SITUATIONAL OCCUPANT LOAD DURING SCHOOL OPERATING HOURS - DEFINED BY AREA
- (##) SITUATIONAL OCCUPANT LOAD AFTER SCHOOL OPERATING HOURS - DEFINED BY AREA
- 0 HR RATED FIRE SEPARATION (SMOKE SEPARATION)
- 1 HR RATED FIRE SEPARATION
- 2 HR RATED FIRE SEPARATION
- PATH OF TRAVEL FOR DEMONSTRATING TRAVEL DISTANCE COMPLIANCE
- EVENING PATH OF TRAVEL FOR DEMONSTRATING TRAVEL DISTANCE COMPLIANCE
- WALL-MOUNTED FIRE EXTINGUISHER, REFER TO PLANS, INT. ELEVS, & SPEC.

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issue / rev.

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PROVINCE OF MANITOBA — LINDSAY OSTER — 2023-03-24 — REGISTERED ARCHITECT

PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. No. 025 — APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

drawing information

FIRE SAFETY

drawn by: **SK**
approved by: **LO**

scale: **1:100**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

A0 02

ZONING SUMMARY

CITY OF STEINBACH ZONING BY-LAW NO. 2100 CONSOLIDATION DATE: ***OCTOBER 2018***

PROJECT NAME / DESCRIPTION:
91 PARKLAND DRIVE, STEINBACH, MB
LEGAL DESCRIPTION: DEPOSIT NO. 1913/2019
TITLE NO: 2591260/1
S/W 1/4 34-06-08 EPM, EXC PLAN 52695 WLTO
STEINBACH, RM OF HANOVER, MB

ITEM	ZONING DISTRICTS		ARTICLE
1.	ZONING DISTRICT LOT 1, PLAN 61726, SECTION 34, TOWNSHIP 6, RANGE 6, QUADRANT SW	**EI** EDUCATIONAL & INSTITUTIONAL	59.1
3.	LAND AREA:	~ 435,775 SQ. FT or 40485 SQ. M	10 ACRES
4.	FLOOR AREA (all floors):	EXISTING 0; NEW 62304; TOTAL 62304 SQ.M	*all floors*
		MAIN FLOOR AREA 3992 SQ.M; LOT AREA 40485; TOTAL 10% N/A	
5.	SITE COVERAGE:		
6.	MAXIMUM LOT COVERAGE PER BYLAW:		
7.	FLOOR AREA RATIO:	TOTAL AREA (al floors) 5821 SQ.M; LOT AREA 40485; FAR 0.14	
8.	MAXIMUM FAR PER BYLAW:	3.0	
9.	BUILDING HEIGHT:	10.3 M MAX. 30.48 M	
ITEM	USE REGULATIONS		ARTICLE
10.	PROPOSED PRINCIPAL USES:	ELEMENTARY SCHOOL **P** PERMITTED	76.1 TABLE 3-1
	USE SPECIFIC STANDARD	[X] YES [ ] NO [#] 83.1	
	DETAILS:	83.1 Each elementary or middle school must provide queuing spaces for the loading and unloading of passengers to accommodate three school buses and five passenger vehicles. Such queuing spaces may be located within the required front yard, as allowed in Table 4-5, Requirements by Parking Class.	83.1
11.	PROPOSED PRINCIPAL USES:	DAY CARE CENTRE **C** CONDITIONAL	76.1 TABLE 3-1
	USE SPECIFIC STANDARD	[X] YES [ ] NO [#] 84.1-84.2	
	DETAILS:	84.1. Each day care centre must provide a drop-off/pick-up area to ensure the safety of persons and to ensure that vehicles dropping off or picking up do not interfere with smooth traffic flow on adjacent public streets.	84.1
		84.2 All Day Care Centres require provincial licensing.	84.2
12.	PARKING CLASS:	**7** DAY CAR CENTRE / ELEMENTRARY SCHOOL	76.1 TABLE 3-1
	DETAILS:	1 FOR EACH 2 FACULTY MEMBERS	142.2 TABLE 4-5
	NUMBER OF STALLS:	# OF STAFF 92 / # per 2 = **46** STALLS	
	MIN. REQ'D ACCESSIBLE STALLS:	76 to 100 **6** STALLS	143.1 TABLE 4-6
13.	BIKE PARKING:	[X] YES [ ] NO # 3 REQ. (1 LOCKABLE BICYCLE SPACE PER 20 REQUIRED AUTOMOBILE SPACES (NOT LESS THAN 2))	142.2 TABLE 4-5
14.	QUEUING SPACES:	[X] YES [ ] NO # 5 VEHICLE REQ.; # 3 BUS REQ. (1 SCHOOL BUSES AND 5 PASSENGER VEHICLES)	83.1, 84.1
15.	LOADING SPACES:	[ ] YES [X] NO # 0 REQ.	142.2 TABLE 4-5
ITEM	DEVELOPMENT AND DESIGN STANDARDS		ARTICLE
16.	DIMENSIONAL STANDARDS:	**EI** EDUCATIONAL & INSTITUTIONAL NOTES:	122.1 TABLE 4-1
		MINIMUM LOT AREA: 20,000 S.F. MINIMUM LOT WIDTH: 100 FT. MINIMUM FRONT YARD: 25 FT. MINIMUM REAR YARD: 25 FT. MINIMUM INTERIOR SIDE YARD: 15 FT. MINIMUM CORNER SIDE YARD: 25 FT. MAXIMUM LOT COVERAGE: N/A MAXIMUM FLOOR AREA RATIO: 3.0 MAXIMUM BUILDING HEIGHT: 100 FT.	
17.	ENCROACHMENTS:	[ ] YES [X] NO	
18.	PROJECTIONS:	[ ] YES [X] NO BUILDING ELEMENT: BICYCLE RACKS AND WHEEL CHAIR RAMPS REQUIREMENT: FRONT YARD: PERMITTED SIDE YARD: PERMITTED REAR YARD: PERMITTED	140.1 TABLE 4-3
19.	SIGNS:	**EI** EDUCATIONAL & INSTITUTIONAL [X] YES [ ] N/A	166.1 TABLE 4-9
		TYPE: FREESTANDING MAXIMUM HEIGHT: 20 FT PERMITTED SURFACE AREA: 1.25 SF PER FOOT OF FRONTAGE TO A MAXIMUM OF 323 SF TYPE: ATTACHED TO BUILDING MAXIMUM HEIGHT: WALL HEIGHT PERMITTED SURFACE AREA: 25% OF BUILDING WALL	
20.	LANDSCAPE AND BUFFERING:		181.1
	STREET EDGE LANDSCAPING:	REQUIRED [X] PROVIDED [ ]	187.1
	BUILDING FOUNDATION LANDSCAPING:	REQUIRED [ ] PROVIDED [ ]	
	PARKING LOT INTERIOR LANDSCAPING:	REQUIRED [X] PROVIDED [ ]	188.1
	SITE AND REAR SITE EDGE BUFFERING:	REQUIRED [X] PROVIDED [ ]	189.1
	BUFFERING OF PARKING & LOADING AREAS:	REQUIRED [X] PROVIDED [ ]	191.1
21.	FENCES AND SCREENING:		195.1
	MAXIMUM HEIGHTS:	FRONT YARD : 10 FT SIDE YARD : 10 FT REAR YARD : 10 FT	TABLE 4-12
22.	LIGHTING:	*review requirements for lighting*	200.1
23.	DESIGN STANDARDS:	*n/a*	137.1
24.	VARIANCE REQUIRED:	[ ] YES [X] NO	
	CONDITIONAL USE REQUIRED:	[X] YES [ ] NO *Daycare centre*	22.1
	ZONING AMENDMENT AGREEMENT:	[ ] YES [X] NO	
	OTHER APPROVALS: *i.e. UDAC, HERITAGE, etc.*	[ ] YES [X] NO	
ITEM	OVERLAY ZONING DISTRICTS		
	PLANNED OVERLAY DISTRICTS		PART 5.0
	SECTION 5.2: CENTRAL BUSINESS DISTRICT POD	[ ] YES [X] NO	221.1
	SECTION 5.3: TRANSITIONAL ZONE POD	[ ] YES [X] NO	234.1

MBC CODE SUMMARY

NATIONAL BUILDING CODE MATRIX (2010) with Manitoba Amendments (MBC) DATE: *2023.01.10*

PROJECT NAME / DESCRIPTION:
NEW WEST STEINBACH K-4 SCHOOL, STEINBACH, MB
91 PARKLAND DRIVE, STEINBACH, MB

NBC REFERENCE
(REFERENCES ARE TO DIVISION B UNLESS NOTED [A] FOR DIVISION [A] OR [C] FOR DIVISION C

ITEM	3.1. GENERAL			ARTICLE
1.	PROJECT DESCRIPTION:	[X] NEW [ ] ADDITION	[ ] ALTERATION [X] PART 3 [ ] CHANGE OF USE	1.3.3.1.-3 [A] & 1.3.5.1. 1)
2.	MAJOR OCCUPANCY(S): OTHER:	**A-2** ASSEMBLY - OTHER ELEMENTARY SCHOOL **B-3** *CARE* CHILDCARE **3.2.2.43.**		3.1.2.1 (1) & 3.2.2.6. 3.2.2.8.
3.	FIRE SEPARATIONS REQUIRED:	**2** HR FIRE SEPARATION BETWEEN MAJOR OCCUPANCIES		3.1.3.1. & 3.2.2.7.
4.	MINOR OCCUPANCY(S):	**D** BUSINESS AND PERSONAL SERVICES *ADMINISTRATION OFFICES ARE LESS THAN 10% OF FLOOR AREA*		3.2.2.8.
	Refer also to 3.1.8. for Fire Separation and Closure requirements and 3.1.9. for requirements for penetrations of Fire-rated Assemblies.			
5.	FIREWALLS:	**0** HR FIRE SEPARATION	[X] N/A	3.1.10.
6.	BUILDING AREA:	EXISTING 0; NEW 4089 SM (44,017 SF); TOTAL 4089 SM		1.4.1.2 [A]
7.	NUMBER OF STOREYS:	ABOVE GRADE - 2 BELOW GRADE - 0 CRAWLSPACE: [X] YES [ ] NO ROOFTOP OCCUPANCY [ ] YES [X] NO INCREASE # OF STOREYS? [ ] YES [X] NO		1.4.1.2 [A] & 3.2.1.1 3.2.2.9. 3.2.2.9. 3.2.2.13. 1.3.5.3
8.	MEZZANINES: INTERCONNECTED FLOOR SPACE: draft stops required:	[ ] YES [X] NO [X] YES [ ] NO [ ] YES [X] NO		3.2.1.1. 3) - 8) & 3.2.8.2.
9.	SPRINKLERED:	[X] YES [ ] NOT REQUIRED		
10.	FACING # OF STREETS:	1 (48.2% perim within 15m) [X] FIREFIGHTER ACCESS (Drop off & bus lanes)		3.2.2.10 & 3.2.5.
11.	FIRE BLOCKS:	[ ] ATTIC, 600m2, 60m [ ] CRAWLSPACE, 600 m2, 30m MIN DIM [X] NO *(CRAWLSPACE IS **SPRINKLERED** , NO FIREBLOCK REQD)*		3.1.11.1., 3.1.11.5 & 3.1.11.6.
	Refer also to 3.1.13 for Interior Finish Flame-spread rating requirements			
12.	OCCUPANT LOAD (Based On):	[X] AREA (Scenario B) [X] NO. OF PEOPLE (Scenario A)		3.1.17.1.
	SCENARIO (A). DAYTIME	*ROOM* / *AREA (M2)* / *AREA/ PERSON* / *# of PPL*		
	MAIN FLOOR	CLASSROOMS (x 6) 162 (25 students + 2 Staff each class) KINDERGARTEN (x 3) 81 (25 students + 2 Staff each class) CHILDCARE 88 (20 infant, 54 preschool, 14 Staff) ADMIN 4 (Principal, Vice, 2 Receptionists) FUTURE CLASS (x 2) 54 (25 students + 2 Staff each class) SUB-TOTAL 389		
	SECOND FLOOR	CLASSROOMS (x 10) 270 (25 students + 2 Staff each class) ART CLASSROOM 27 (25 students + 2 Staff) FUTURE CLASS (x 2) 54 (25 students + 2 Staff each class) SUB-TOTAL 351		
	OVERALL	ADDITIONAL SCHOOL STAFF 26 (52+26=78 = 600 Students * 0.13)		
		TOTAL ***766*** (600 Students, +/- 78 Staff, & 88 Childcare Occupants)*		
	SCENARIO (B). EVENING USE	*ROOM* / *AREA (M2)* / *AREA/ PERSON* / *# of PPL*		
	MAIN FLOOR	GYMNASIUM 390 0.75 520 MINI-GYM 130 1.85 70 ENTRY COMMONS 98 0.75 131 MPR 64 1.85 35		***REFER TO DRAWINGS FOR EXITING CALCULATIONS AND DISTRIBUTED OCCUPANT LOADING**
		TOTAL ***756 ***		
ITEM	3.2. BUILDING FIRE SAFETY			ARTICLE
13.	BUILDING CLASSIFICATION:	**A-2** UP TO 6 STOREYS, ANY AREA, SPRINKLERED **3.2.2.24** **B-3** UP TO 3 STOREYS, NON-COMB., SPRINKLERED **3.2.2.43**		3.2.2.20. - 3.2.2.88.
	permitted *actual*	[ ] COMBUSTIBLE [X] NON-COMB. [ ] BOTH [ ] COMBUSTIBLE [X] NON-COMB.		
			NBC/AJC DES. LISTING	
	FLOOR ASSEMBLIES:	1 HR FRR FIRE SEP.		3.2.2.6.
	MEZZANNES:	1 HR FRR FIRE SEP.		3.2.1.6.
	LOAD BEARING BEAMS AND COLUMNS:	1 HR FRR FIRE SEP.		
	ROOF ASSEMBLY:	0 HR FRR FIRE SEP.	BUILDING SPRINKLERED	3.1.14.2.
	**include classifications for all major occupancies, use most restricted*			
14.	FLOOR ABOVE BASEMENT:	0 HR FRR FIRE SEPARATION	[X] N/A	3.2.2.9., 3.2.1.4 & 3.2.1.5
15.	OCCUPANCY ON ROOF:	[X] N/A		3.2.2.13.
16.	SPATIAL SEPARATION:	2 FIRE COMPARTMENTS: CHILDCARE & SCHOOL (2 HR SEPARATION)		3.2.3.1. A to E & 3.2.3.7. 1) & 2)
	SCHOOL (NORTH WALL)			**3.2.3.10
	LIMITING DISTANCE (LD) = 70.10 M		EBF = 550 SQ.M (AREA)	
	L/H OR H/L = 9 : 1		OPENNGS = 120 SQ.M (actual)	
	UNPROTECTED OPENINGS = 100 % (allowed)		21.8 % ACTUAL OPENINGS	
	FRR REQUIRED = 0 HR FRR FIRE SEP.			
	CONSTRUCTION = [X] COMBUSTIBLE/NON-COMB.		[ ] NON-COMBUSTIBLE	
	CLADDING = [X] COMBUSTIBLE/NON-COMB.		[ ] NON-COMBUSTIBLE	
	SCHOOL (EAST WALL)			
	LIMITING DISTANCE (LD) = 46.53 M		EBF = 686 SQ.M (AREA)	
	L/H OR H/L = 9 : 1		OPENNGS = 95 SQ.M (actual)	
	UNPROTECTED OPENINGS = 100 % (allowed)		13.8 % ACTUAL OPENINGS	
	FRR REQUIRED = 0 HR FRR FIRE SEP.			
	CONSTRUCTION = [X] COMBUSTIBLE/NON-COMB.		[ ] NON-COMBUSTIBLE	
	CLADDING = [X] COMBUSTIBLE/NON-COMB.		[ ] NON-COMBUSTIBLE	
	SCHOOL (SOUTH WALL)			
	LIMITING DISTANCE (LD) = 45.56 M		EBF = 660 SQ.M (AREA)	
	L/H OR H/L = 9 : 1		OPENNGS = 139 SQ.M (actual)	
	UNPROTECTED OPENINGS = 100 % (allowed)		21.1 % ACTUAL OPENINGS	
	FRR REQUIRED = 0 HR FRR FIRE SEP.			
	CONSTRUCTION = [X] COMBUSTIBLE/NON-COMB.		[ ] NON-COMBUSTIBLE	
	CLADDING = [X] COMBUSTIBLE/NON-COMB.		[ ] NON-COMBUSTIBLE	
	SCHOOL (WEST WALL)			
	LIMITING DISTANCE (LD) = 62.68 M		EBF = 692 SQ.M (AREA)	
	L/H OR H/L = 9 : 1		OPENNGS = 124 SQ.M (actual)	
	UNPROTECTED OPENINGS = 100 % (allowed)		17.9 % ACTUAL OPENINGS	
	FRR REQUIRED = 0 HR FRR FIRE SEP.			
	CONSTRUCTION = [X] COMBUSTIBLE/NON-COMB.		[ ] NON-COMBUSTIBLE	
	CLADDING = [X] COMBUSTIBLE/NON-COMB.		[ ] NON-COMBUSTIBLE	
	CHILDCARE (NORTH WALL)			
	LIMITING DISTANCE (LD) = 32.3 M		EBF = 105 SQ.M (AREA)	
	L/H OR H/L = 5 : 1		OPENNGS = 13 SQ.M (actual)	
	UNPROTECTED OPENINGS = 100 % (allowed)		12.4 % ACTUAL OPENINGS	
	FRR REQUIRED = 0 HR FRR FIRE SEP.			
	CONSTRUCTION = [X] COMBUSTIBLE/NON-COMB.		[ ] NON-COMBUSTIBLE	
	CLADDING = [X] COMBUSTIBLE/NON-COMB.		[ ] NON-COMBUSTIBLE	
	CHILDCARE (EAST WALL)			
	LIMITING DISTANCE (LD) = 119 M		EBF = 132 SQ.M (AREA)	
	L/H OR H/L = 6 : 1		OPENNGS = 30 SQ.M (actual)	
	UNPROTECTED OPENINGS = 100 % (allowed)		22.7 % ACTUAL OPENINGS	
	FRR REQUIRED = 0 HR FRR FIRE SEP.			
	CONSTRUCTION = [X] COMBUSTIBLE/NON-COMB.		[ ] NON-COMBUSTIBLE	
	CLADDING = [X] COMBUSTIBLE/NON-COMB.		[ ] NON-COMBUSTIBLE	
	CHILDCARE (WEST WALL)			
	LIMITING DISTANCE (LD) = 40.70 M		EBF = 135 SQ.M (AREA)	
	L/H OR H/L = 6 : 1		OPENNGS = 35 SQ.M (actual)	
	UNPROTECTED OPENINGS = 100 % (allowed)		25.9 % ACTUAL OPENINGS	
	FRR REQUIRED = 0 HR FRR FIRE SEP.			
	CONSTRUCTION = [X] COMBUSTIBLE/NON-COMB.		[ ] NON-COMBUSTIBLE	
	CLADDING = [X] COMBUSTIBLE/NON-COMB.		[ ] NON-COMBUSTIBLE	

If supplementary calculations are required, copy and insert more rows.
Refer also to requirements; 3.2.3.13. - 3.2.3.15. for special requirements for Protection of exit Facilities, Walls exposed to another Wall or exposed to adjoining roof

17.	FIRE ALARM REQUIRED:	[X] YES	[ ] NO	*See Mechanical*	3.2.4.
18.	EMERGENCY LIGHTING REQUIRED:	[X] YES	[ ] NO	*See Electrical*	3.2.7.
19.	EXIT SIGNAGE REQUIRED: *Refer also to requirements for Fire Detectors, Smoke Detectors, and Smoke Alarms*	[X] YES	[ ] NO	*See Electrical*	3.4.5.
20.	PROVISIONS FOR FIRE FIGHTING:				3.2.5.
	ACCESS TO ABOVE GRADE STOREY :	[ ] YES	[ ] NO	[X] N/A	3.2.5.1. (SPRINKLERED)
	ACCESS TO BASEMENT :	[ ] YES	[ ] NO	[X] N/A	3.2.5.2. (NO BASEMENT)
	ACCESS TO ROOF :	[X] YES	[ ] NO	[X] N/A	3.2.5.3. (LESS THAN 3 STOREY)
	ACCESS ROUTES :	[X] YES	[ ] NO	[ ] N/A	3.2.5.4. & 3.2.5.5.
	WATER SUPPLY IS ADEQUATE :	[X] YES	[X] SERVICED	[ ] CISTERN	3.2.5.7.
	STANDPIPE SYSTEM REQUIRED :	[ ] YES	[X] NO	[ ] N/A	3.2.5.8. (SPRINKLERED)
	HYDRANT WITHIN 45 M OF FIRE DEPT. CONNECTION :	[ ] YES	[ ] NO	[X] N/A	3.2.5.15.
	FIRE EXTINGUISHER LOCATION INDICATED :	[X] YES	[ ] NO		3.2.5.16.
21.	HIGH BUILDING:	[ ] YES	[X] NO		3.2.6.
22.	ADD. REQS FOR MEZZANINES:	[ ] YES	[X] NOT APPLICABLE		3.2.8.
ITEM	3.3. SAFETY WITHIN FLOOR AREAS				ARTICLE
23.	SEPARATION OF SUITES:	0 HR FRR FIRE SEP.	[X] NOT APPLICABLE		3.3.1.1. & 3.3.4.2.
24.	2 MEANS OF EGRESS REQUIRED:		[X] YES (GYM, MINI-GYM, LIBRARY)		3.3.1.3. & 3.3.1.5.
25.	PUBLIC CORRIDOR SEPARATIONS:	0 HR FRR FIRE SEP.	[X] N/A		3.3.1.4., 3.3.4.2. & 3.3.2.6.
	A2 OCCUPANCY		[X] 45 M TO EVERY EXIT		3.3.2.6.
26.	JANITOR ROOMS:	0 HR FRR FIRE SEP.	[ ] N/A	[X] SPRINKLERED	3.3.1.21.
27.	COMMON LAUNDRY ROOMS:	0 -	[X] N/A	[X] SPRINKLERED	3.3.1.22.
28.	WELDING AND CUTTING ROOMS:	0 -	[X] N/A		3.3.1.25.
	Additional Requirements for Assembly (3.3.2.), Care, Treatment or Detention (3.3.3.), Residential (3.3.4.), and Industrial Occupancies (3.3.5.) are to be inserted.				
29.	TENANT STORAGE ROOMS:	0	[X] N/A	[X] SPRINKLERED	3.3.4.3.
30.	REPAIR GARAGE:	[ ] YES	[X] N/A		3.3.5.5.
31.	STORAGE GARAGE	[ ] YES	[X] N/A		3.3.5.6.
	Refer also to 3.1.8. for Fire Separation and Closure requirements and 3.1.9. for requirements for penetrations of Fire-rated Assemblies.				
32.	STC RATINGS FOR RESIDENTIAL SUITES & ELEVATOR SHAFT		[X] N/A		3.3.4.6.
33.	HAZARDOUS SUBSTANCES:	[ ] YES	[X] NO		3.3.1.2.
34.	STORAGE OF DANGEROUS GOODS:	[ ] YES	[X] NO		3.3.6.2.
35.	INDOOR STOR. OF COMP. GASES:	[ ] YES	[X] NO		3.3.6.3.
36.	FLAMMABLE/COMB. LIQUIDS:	[ ] YES	[X] NO		3.3.6.4.
ITEM	3.4. EXITS				ARTICLE
37.	2 EXITS REQUIRED:	[X] YES	[ ] NO		3.4.2.1.
38.	NUMBER OF EXITS PROVIDED:	8 (+1 add'l for 2nd Floor)			
39.	NUMBER OF EXITS at MEZZANINE:	0	[X] N/A		3.4.2.2.
	F2 exits are not required, insert Criteria met for one exit				
40.	DISTANCE BETWEEN EXITS:	100 M (Length) SCHOOL; 32.3 M (Length) CHILDCARE	> 1/2 DIAGONAL = 43 M > 1/2 DIAGONAL = 18 M		3.4.2.3.
41.	TRAVEL DISTANCE:	45 M			3.4.2.5.
42.	DEAD END-CORRIDORS:	0 M (Distance)	[X] NONE		3.3.1.9. 7)
43.	EXIT WIDTH: INCLUDING FUTURE CLASSROOMS				3.4.3.2.
	REFER TO FIRE SAFETY DIAGRAMS FOR FURTHER BREAKDOWN				
	MAIN FLOOR (SCENARIO A)				
	DOORWAYS, RAMPS, CORRIDORS	402 PERSONS X 6.1 mm per person	= 2452.2 mm REQ.		
	(Actual) 900 DOOR WIDTH X 14 # OF DOORS		= 12600 mm PROVIDED		
	MAIN FLOOR (SCENARIO B)				
	DOORWAYS, RAMPS, CORRIDORS	756 PERSONS X 6.1 mm per person	= 4611.6 mm REQ.		
	(Actual) 900 DOOR WIDTH X 8 # OF DOORS		= 7200 mm PROVIDED	*(4 more doors are accessible too, but likely won't be used)*	
	MINIMUM CORRIDOR WIDTH	1100 mm			3.3.1.9. & 3.4.3.2. A&B.
	MINIMUM DOOR WIDTH	900 mm			3.4.3.2. A&B. & 3.3.8.3.
	MINIMUM RAMP WIDTH	1100 mm	[X] N/A		3.4.3.2. A&B.
	SECOND FLOOR (SCENARIO A)				
	STAIRS	364 PERSONS x 8 mm per person	= 2912 mm REQ.		
	(Actual) 1350 mm STAIR WIDTH	2 # OF STAIRS*	= 2700 mm PROVIDED	*(Feature stair not used for exiting)*	
	1120 mm STAIR WIDTH	1 # OF STAIRS*	= 1120 mm PROVIDED		
	TOTAL		= 3820 mm PROVIDED		
	MINIMUM STAIR WIDTH	900 mm (Serving only 1 storey above exit level)			3.4.3.2. A.&B.
	REFER ALSO TO 3.3.1.8., & 3.4.6. FOR DIMENSIONAL REQUIREMENTS FOR RAMPS, STAIRS, LANDINGS, HANDRAILS, GUARDS, AND DOORS				
44.	FIRE SEPARATION OF EXITS:	1 HR FRR FIRE SEP.			3.4.4.1.
45.	EXIT THROUGH LOBBY:	0 -	[X] N/A		3.4.4.2.
46.	HORIZONTAL EXIT:	[ ] YES	[X] NO		3.4.1.6. & 3.4.6.10.
	REFER TO EXITING SCHEMATIC ON DRAWINGS				
ITEM	3.5. VERTICAL TRANSPORTATION		[ ] N/A		
47.	ELEVATOR SHAFT:	1 HR FRR FIRE SEP.			3.5.3.1.
48.	ELEVATOR MACHINE ROOM:	1 HR FRR FIRE SEP.	[X] N/A		3.5.3.3.
49.	ELEVATOR SIZE:	2540 mm X 2108 mm			3.5.4.1.
ITEM	3.6. SERVICE FACILITIES				
50.	SERVICE ROOM (fuel-fired):	0 -	[X] N/A		3.6.2.1.
51.	SERVICE ROOM (other):	1 HR FRR FIRE SEP.			
52.	INCINERATOR ROOM:	0 -	[X] N/A		3.6.2.4.
53.	REFUSE (garbage) STORAGE ROOM:	1 HR FRR FIRE SEP.	[ ] N/A		3.6.2.5.
54.	VERTICAL SERVICE SHAFT	1 HR FRR FIRE SEP.	[ ] N/A		3.6.3.1.
ITEM	3.7. HEALTH REQUIREMENTS				
55.	RESIDENTIAL OCCUPANCY:	[ ] YES	[X] N/A		3.7.2.2.11)
56.	**SCHOOL Scenario A**: W/C REQ'D:	766 PERSONS / 2	383 PER SEX		3.7.2.2.A., B., C.
	FEMALE W/C	16 REQ.		13 PROVIDED	3.7.2.2.(7)
	FEMALE LAV	8 REQ.		8 PROVIDED	
	MALE W/C	13 REQ.		13 PROVIDED	3.7.2.2.(7)
	MALE LAV	7 REQ.		8 PROVIDED	
	NEUTRAL W/C			7 PROVIDED	
	NEUTRAL LAV			7 PROVIDED	
	TOTAL W/C	29 REQ.		33 PROVIDED	
	TOTAL LAV	15 REQ.		23 PROVIDED	
	SCHOOL Scenario B: W/C REQ'D:	756 PERSONS / 2	378 PER SEX		3.7.2.2.A., B., C.
	JUST PUBLIC AREA (BOTH FLRS)				
	FEMALE W/C	12 REQ.		13 PROVIDED	3.7.2.2.(7)
	FEMALE LAV	6 REQ.		8 PROVIDED	
	MALE W/C	6 REQ.		13 PROVIDED	3.7.2.2.(7)
	MALE LAV	3 REQ.		8 PROVIDED	
	NEUTRAL W/C			2 PROVIDED	
	NEUTRAL LAV			2 PROVIDED	
	TOTAL W/C	18 REQ.		28 PROVIDED	
	TOTAL LAV	9 REQ.		18 PROVIDED	
	CHILDCARE: W/C REQUIRED:	88 PERSONS / 2	44 PER SEX		
	FEMALE W/C	2 REQ.		PROVIDED	3.7.2.2.(7)
	FEMALE LAV	1 REQ.		PROVIDED	3.7.2.2.(7)
	MALE W/C	2 REQ.		PROVIDED	
	MALE LAV	1 REQ.		PROVIDED	
	NEUTRAL W/C			11 PROVIDED	
	NEUTRAL LAV			8 PROVIDED	
	TOTAL W/C	4 REQ.		11 PROVIDED	
	TOTAL LAV	2 REQ.		8 PROVIDED	
ITEM	3.8. BARRIER-FREE DESIGN				
57.	BARRIER FREE PATH OF TRAVEL:	[X] YES	[ ] NO	[X] PROVIDED BY ELEVATOR	3.8.1.2., 3.8.1.3. & 3.8.2.1.
58.	BARRIER FREE WASHROOM:	[X] YES	[ ] NO		3.8.2.3.
59.	AUTO-DOOR OPERATORS:	[X] YES	[ ] N/A		3.8.3.3. 5)
60.	PROTECTION OF FLOOR AREAS IN A BARRIER-FREE PATH OF TRAVEL				3.3.1.7.
		[X] SPRINKLERED			*then clause does not apply*
		[ ] PROVIDED BY FIRE FIGHTER ELEVATOR & VESTIBULES			3.3.1.7. 1) a) & 3.2.6.5. (4 TO 6) &
		[ ] SEPARATED INTO ZONES			3.3.1.7. 1) b)
		[ ] RESIDENTIAL - BALCONIES			3.3.1.7. 1) c)
		[ ] EXITS FROM FLOOR AREAS TO GRADE (STAIR HAS AREA OF REFUGE)			3.3.1.7. 1) d)
		[ ] EXITS FROM FLOOR AREAS HAVE RAMPS			3.3.1.7. 1) e)
61.	ALTERNATIVE SOLUTIONS:	[ ] YES	[X] NO		
ITEM	OTHER				

3.1.4.2. 1) FOAMED PLASTICS THAT FORM PART OF A WALL OR CEILING ASSEMBLY IN COMBUSTIBLE CONSTRUCTION SHALL BE PROTECTED FROM ADJACENT SPACES IN THE BUILDING , OTHER THAN ADJ. CONCEALED SPACES WITHIN ATTIC OR ROOF SPACES, CRAWLSPACES, AND WALL ASSEMBLIES.

3.1.8.7. 1) EXCEPT AS PERMITTED BY 3.1.8.8, A DUCT THAT PENETRATES AN ASSEMBLY REQUIRED TO BE A FIRE SEPARATION SHALL BE EQUIPPED WITH A FIRE DAMPER.

3.2.5.16 1) PORTABLE EXTINGUISHERS SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH PROVINCIAL, TERRITORIAL OR MUNICIPAL BYLAWS.

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issue / rev.

#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

PROVINCE OF MANITOBA
LINDSAY OSTER
2023-03-24
REGISTERED ARCHITECT

PROVINCE OF MANITOBA
PRAIRIE ARCHITECTS INC.
No. 028
APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive Steinbach, MB

drawing information

CODE & ZONING SUMMARY

drawn by: **SK / ER**
approved by: **LO**

scale: **1:100**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

A0 03

NEW WEST STEINBACH ELEMENTARY SCHOOL

ZONING EI, LOT 1, PLAN 61726, SECTION 34, TOWNSHIP 6, RANGE 6, QUADRANT SW **(REFER TO A0-03 FOR ZONING REVIEW).**

CIVIC ADDRESS: **NOT YET ASSIGNED, PARKLAND DRIVE, STEINBACH, MB**

TOTAL LOT AREA: **10 Acres (40,485 S.M.)**

TOTAL NUMBER OF PARKING SPACES: **84**

TOTAL NUMBER OF BICYCLE PARKING SPACES: **72**

TOTAL NUMBER OF LOADING SPACES: **13 (BUS), 16 (VEHICLE)**

GENERAL NOTES

- REFER TO LANDSCAPE DRAWINGS FOR DIMENSIONS, LOCATION, AND TYPE OF SURFACE MATERIAL ON PROPOSED APPROACHES, PARKING AREAS, DRIVEWAYS, PROPOSED SIDEWALKS, GARBAGE ENCLOSURE AREAS, ETC. AND FOR ACCESSORY STRUCTURES.

- REFER TO LANDSCAPE, CIVIL, MECHANICAL, & ELECTRICAL SITE PLANS FOR GENERAL SITE EQUIPMENT, AND SITE LIGHTING.

-CONTRACTOR TO SITE VERIFY EXISTING CONSTRUCTION, SITE FEATURES, WALKWAYS, AND SERVICE CABINETS.

-CONTRACTOR TO SITE VERIFY ALL DIMENSIONS.

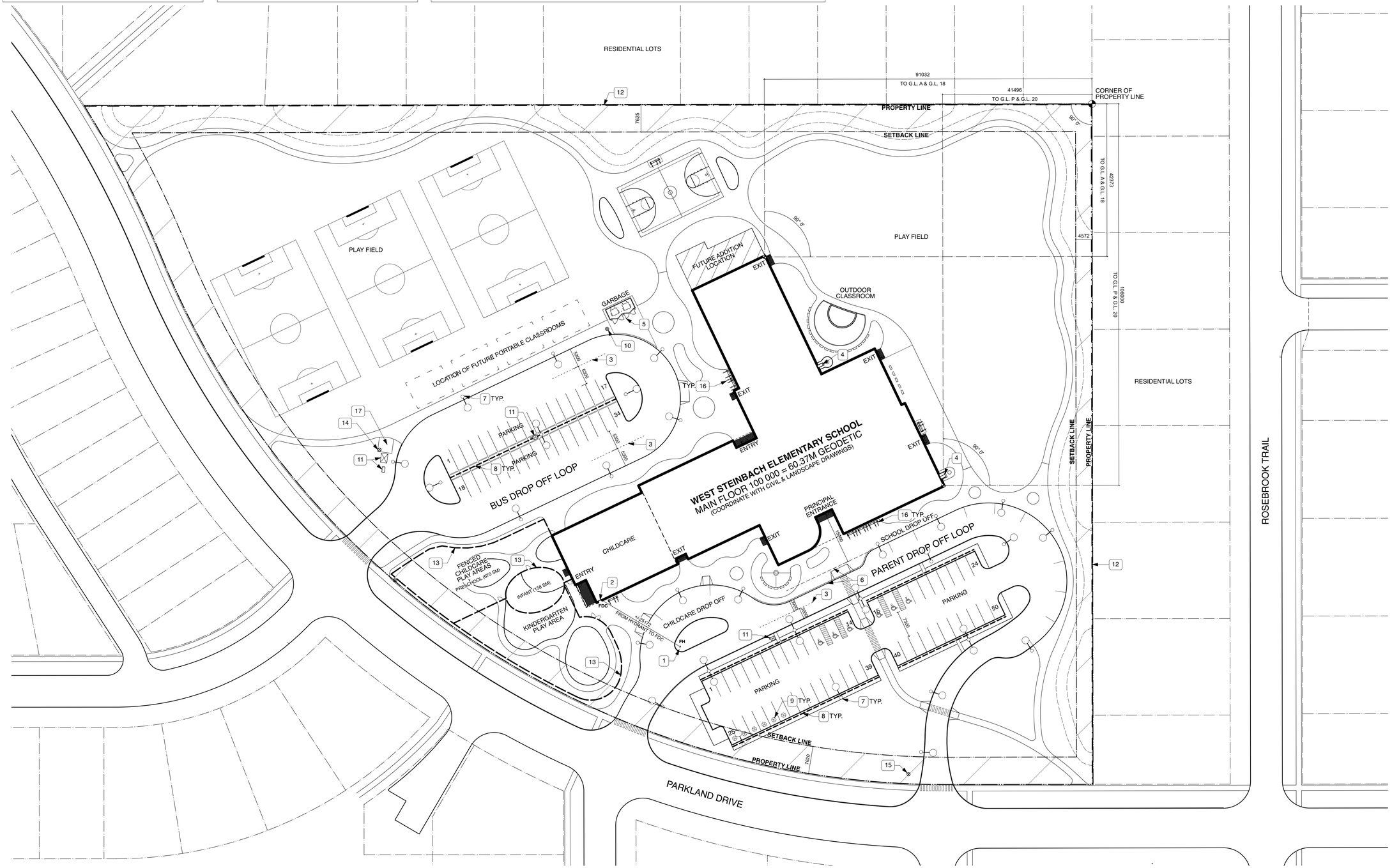
-CONTRACTOR TO PATCH AND REPAIR / MAKE GOOD ALL SURFACES AFFECTED BY CONSTRUCTION, DEMOLITION, AND LAYDOWN.

-REFER TO CIVIL FOR ELEVATIONS, NEW LANDSCAPE GRADING AND EXTENT. CONTRACTOR TO CONFIRM DIMENSIONS ON SITE WITH DESIRED GRADE.

-CONTRACTOR TO REQUEST ALL LOCATES PRIOR TO COMMENCEMENT OF WORK.

SITE PLAN KEYNOTES

1. NEW FIRE HYDRANT, SEE CIVIL
2. FIRE DEPT. CONNECTION, SEE MECH.
3. FIRE ACCESS LANE CENTRE LINE
4. SUMP PUMP DISCHARGE TO CONC. SPLASH PADS, REFER TO PLAN, LANDSCAPE & MECH.
5. GARBAGE ENCLOSURE. SEE LANDSCAPE
6. ROLL-OVER CURB ALLOWS FIRE TRUCKS WITHIN 15M OF PRINCIPAL ENTRANCE. AS PER NBC FIREFIGHTER ACCESS REQUIREMENTS. REFER TO LANDSCAPE.
7. POLE LIGHT, SEE LANDSCAPE & ELEC.
8. PARKING FENCE, SEE LANDSCAPE. SEE ELEC. FOR POWER.
9. INFRASTRUCTURE FOR ELEC. CAR CHARGING, SEE ELEC.
10. CAPPED CONDUIT, FOR FUTURE PORTABLES. REFER TO ELEC.
11. ELECTRICAL EQUIPMENT, REFER TO ELEC. SEE STRUCT. FOR CONC. PADS / FOUNDATION REQUIREMENTS.
12. FENCE ALONG PROPERTY LINE, REFER TO LANDSCAPE.
13. FENCE AROUND CHILDCARE & KINDERGARTEN PLAY YARDS, REFER TO LANDSCAPE.
14. CAPPED CONDUIT, FOR STORAGE SHED. REFER TO ELEC. COORD. LOCATION W/ LANDSCAPE & SHED (N.I.C., BY OWNER).
15. CAPPED CONDUIT, FOR FUTURE PYLON SIGN. REFER TO ELEC. COODINATE LOCATION W/ LANDSCAPE.
16. BICYCLE PARKING, REFER TO LANDSCAPE.
17. GRANULAR PAD FOR SHED (N.I.C., BY OWNER), REFER TO LANDSCAPE.



1 A1-01 LOCATION PLAN 1:500

TRUE NORTH

CONSTRUCTION (BUILDING) NORTH

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project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

drawing information

ARCHITECTURAL SITE PLAN

drawn by: **SK**
approved by: **LO**

scale: **1:100**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

A1 01

GENERAL NOTES - FOUNDATION PLAN:

- EXTERIOR WEEPING TILE TO REMAIN SEPARATE FROM INTERIOR WEEPING TILE / SOIL GAS PIPING

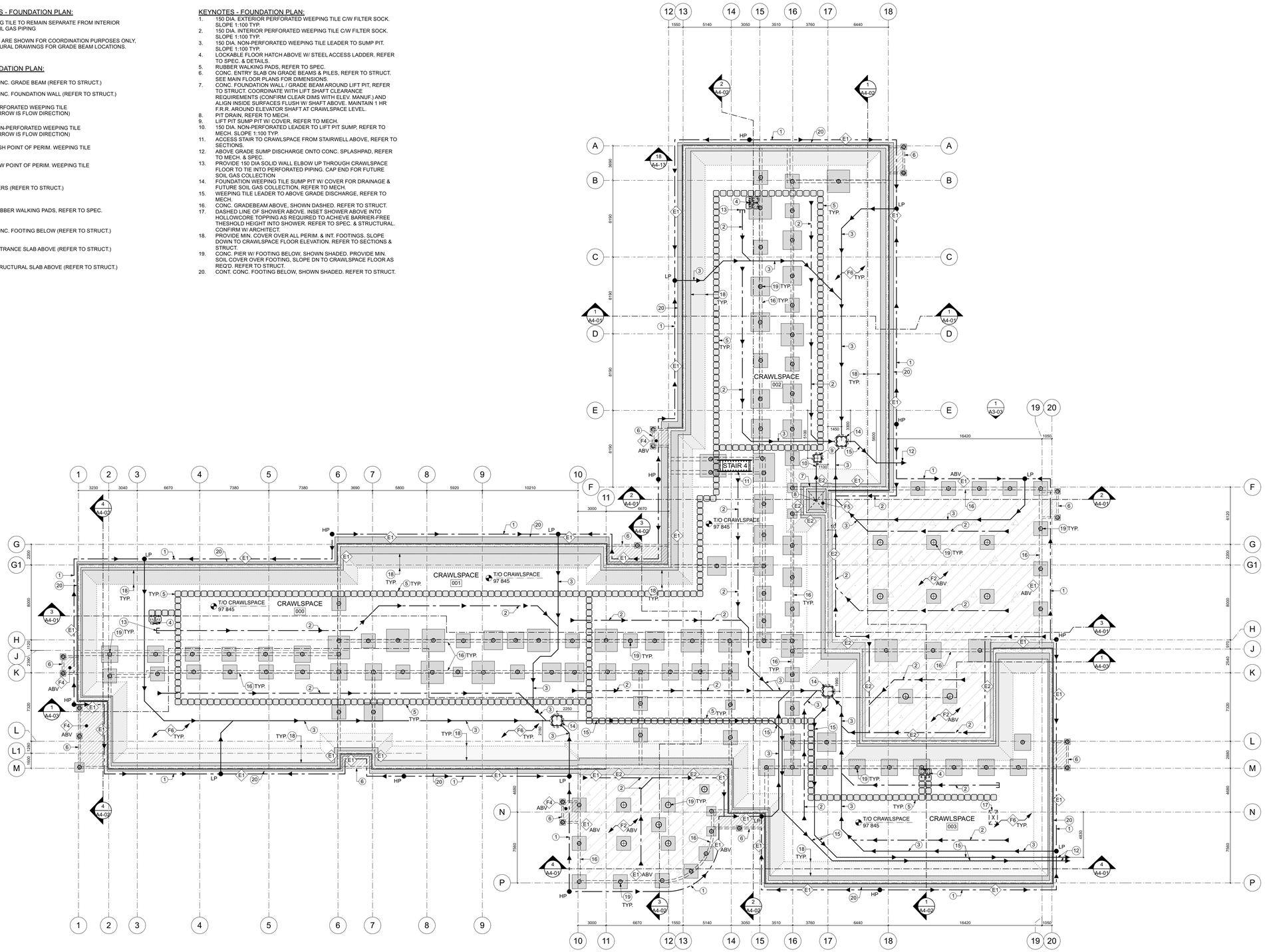
- PIERS & FOOTINGS ARE SHOWN FOR COORDINATION PURPOSES ONLY, REFER TO STRUCTURAL DRAWINGS FOR GRADE BEAM LOCATIONS.

LEGEND - FOUNDATION PLAN:

- CONC. GRADE BEAM (REFER TO STRUCT.)
- CONC. FOUNDATION WALL (REFER TO STRUCT.)
- PERFORATED WEEPING TILE (ARROW IS FLOW DIRECTION)
- NON-PERFORATED WEEPING TILE (ARROW IS FLOW DIRECTION)
- HP — HIGH POINT OF PERIM. WEEPING TILE
- LP — LOW POINT OF PERIM. WEEPING TILE
- PIERS (REFER TO STRUCT.)
- RUBBER WALKING PADS, REFER TO SPEC.
- CONC. FOOTING BELOW (REFER TO STRUCT.)
- ENTRANCE SLAB ABOVE (REFER TO STRUCT.)
- STRUCTURAL SLAB ABOVE (REFER TO STRUCT.)

KEYNOTES - FOUNDATION PLAN:

1. 150 DIA. EXTERIOR PERFORATED WEEPING TILE C/W FILTER SOCK. SLOPE 1:100 TYP.
2. 150 DIA. INTERIOR PERFORATED WEEPING TILE C/W FILTER SOCK. SLOPE 1:100 TYP.
3. 150 DIA. NON-PERFORATED WEEPING TILE LEADER TO SUMP PIT. SLOPE 1:100 TYP.
4. LOCKABLE FLOOR HATCH ABOVE W/ STEEL ACCESS LADDER. REFER TO SPEC. & DETAILS.
5. RUBBER WALKING PADS, REFER TO SPEC.
6. CONC. ENTRY SLAB ON GRADE BEAMS & PILES, REFER TO STRUCT. SEE MAIN FLOOR PLANS FOR DIMENSIONS.
7. CONC. FOUNDATION WALL / GRADE BEAM AROUND LIFT PIT, REFER TO STRUCT. COORDINATE WITH LIFT SHAFT CLEARANCE REQUIREMENTS (CONFIRM CLEAR DIMS WITH ELEV. MANUF.) AND ALIGN INSIDE SURFACES FLUSH W/ SHAFT ABOVE. MAINTAIN 1 HR F.R.R. AROUND ELEVATOR SHAFT AT CRAWLSPACE LEVEL.
8. PIT DRAIN, REFER TO MECH.
9. LIFT PIT SUMP PIT W/ COVER, REFER TO MECH.
10. 150 DIA. NON-PERFORATED LEADER TO LIFT PIT SUMP, REFER TO MECH. SLOPE 1:100 TYP.
11. ACCESS STAIR TO CRAWLSPACE FROM STAIRWELL ABOVE, REFER TO SECTIONS.
12. ABOVE GRADE SUMP DISCHARGE ONTO CONC. SPLASHPAD, REFER TO MECH. & SPEC.
13. PROVIDE 150 DIA SOLID WALL ELBOW UP THROUGH CRAWLSPACE FLOOR TO TIE INTO PERFORATED PIPING. CAP END FOR FUTURE SOIL GAS COLLECTION
14. FOUNDATION WEEPING TILE SUMP PIT W/ COVER FOR DRAINAGE & FUTURE SOIL GAS COLLECTION, REFER TO MECH.
15. WEEPING TILE LEADER TO ABOVE GRADE DISCHARGE, REFER TO MECH.
16. CONC. GRADEBEAM ABOVE, SHOWN DASHED. REFER TO STRUCT.
17. DASHED LINE OF SHOWER ABOVE. INSET SHOWER ABOVE INTO HOLLOWCORE TOPPING AS REQUIRED TO ACHIEVE BARRIER-FREE THESHOLD HEIGHT INTO SHOWER. REFER TO SPEC. & STRUCTURAL. CONFIRM W/ ARCHITECT.
18. PROVIDE MIN. COVER OVER ALL PERIM. & INT. FOOTINGS. SLOPE DOWN TO CRAWLSPACE FLOOR ELEVATION. REFER TO SECTIONS & STRUCT.
19. CONC. PIER W/ FOOTING BELOW, SHOWN SHADED. PROVIDE MIN. SOIL COVER OVER FOOTING, SLOPE DN TO CRAWLSPACE FLOOR AS REQ'D. REFER TO STRUCT.
20. CONT. CONC. FOOTING BELOW, SHOWN SHADED. REFER TO STRUCT.



1 / A2-00 FOUNDATION PLAN
Scale: 1:200

CONSTRUCTION NORTH
TRUE NORTH

This drawing must not be scaled. The contractor shall verify all dimensions and other data on site prior to commencement of work. All discrepancies, errors, and omissions are to be reported to the architect. Drawing and specifications, as instruments of service, are the property of the architect, and when made, must bear his name. All prints to be returned to the architect on request. The copyright in this same being reserved to him. No reproduction may be made without the permission of the architect.

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issue / rev.

#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

PROVINCE OF MANITOBA — LINDSAY OSTER — 2023-03-24 — REGISTERED ARCHITECT

PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. — No. 029 — APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

drawing information

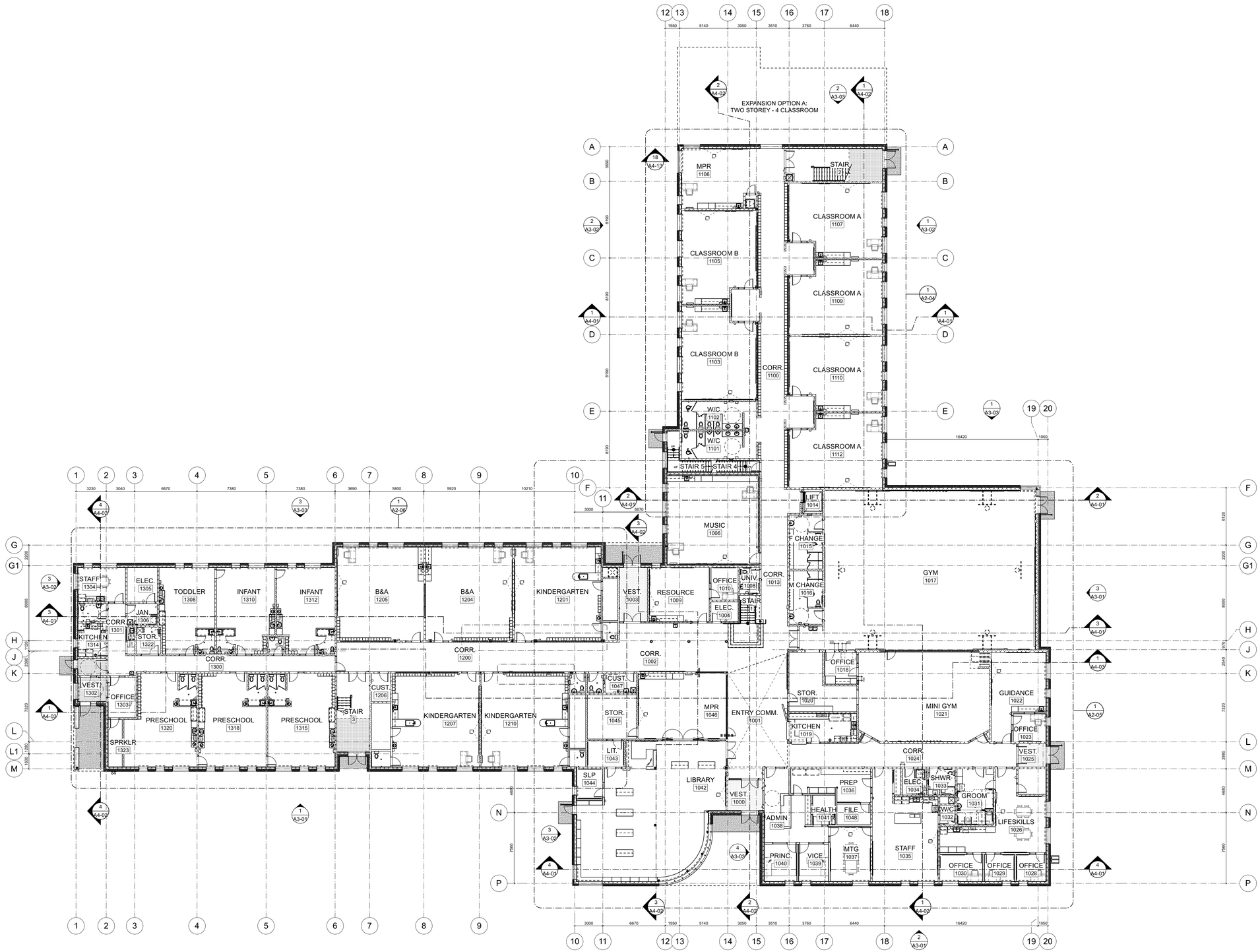
FOUNDATION & UTILIDOR PLAN

drawn by: **SK**
approved by: **LO**

scale: **1:100**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

A2 00



1 A2-01 KEY PLAN - MAIN FLOOR
Scale: 1:200

CONSTRUCTION NORTH

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PROVINCE OF MANITOBA
LINDSAY OSTER
2023-03-24
REGISTERED ARCHITECT

PROVINCE OF MANITOBA
PRAIRIE ARCHITECTS INC.
No. 025
APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

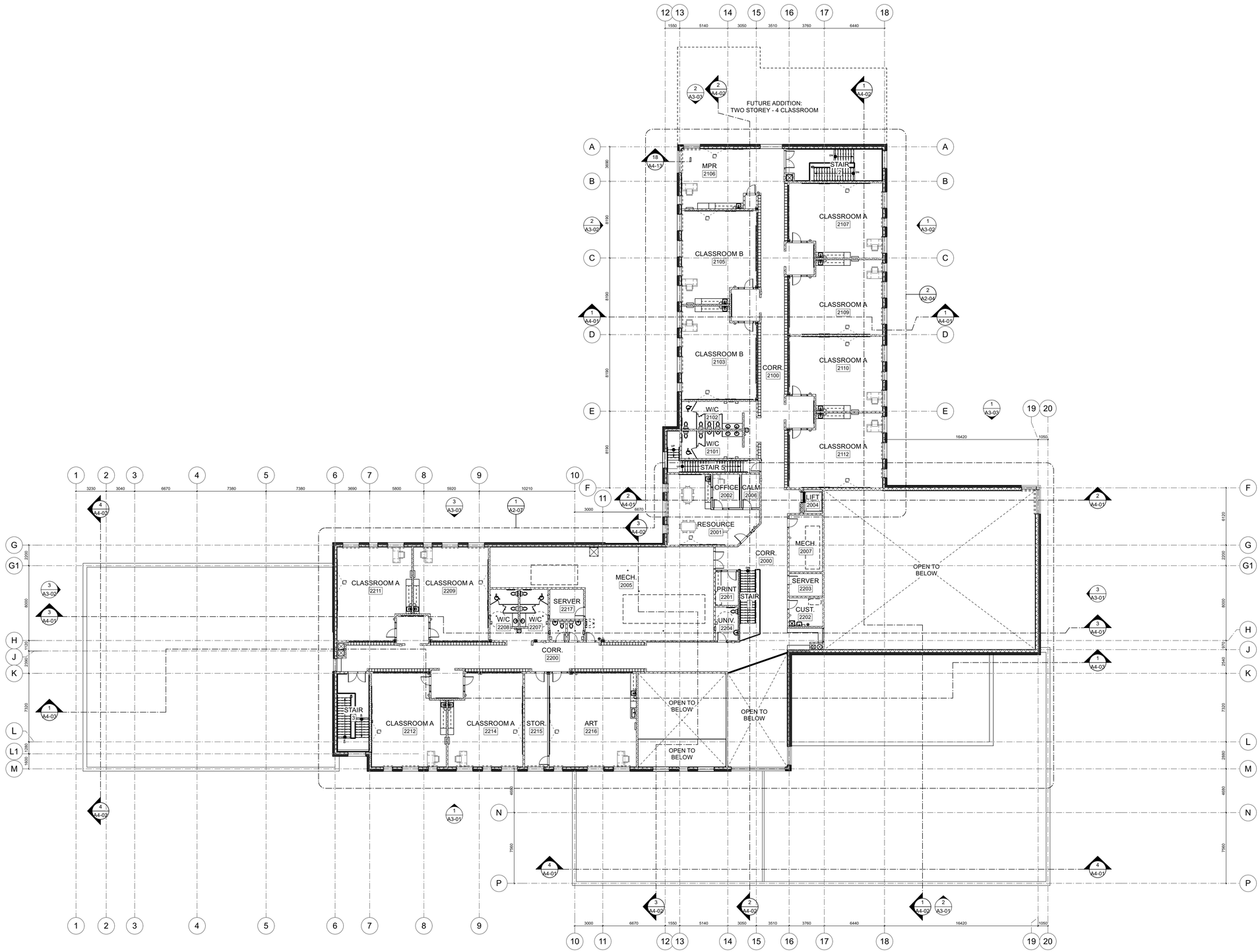
drawing information

KEY PLAN MAIN FLOOR

drawn by: **SK**
approved by: **LO**

scale: **1:100**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

A2 01



1 A2-02 KEY PLAN - SECOND FLOOR
Scale: 1:200

CONSTRUCTION NORTH

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PROVINCE OF MANITOBA
LINDSAY OSTER
2023-03-24
REGISTERED ARCHITECT

PROVINCE OF MANITOBA
PRAIRIE ARCHITECTS INC.
No. 028
APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

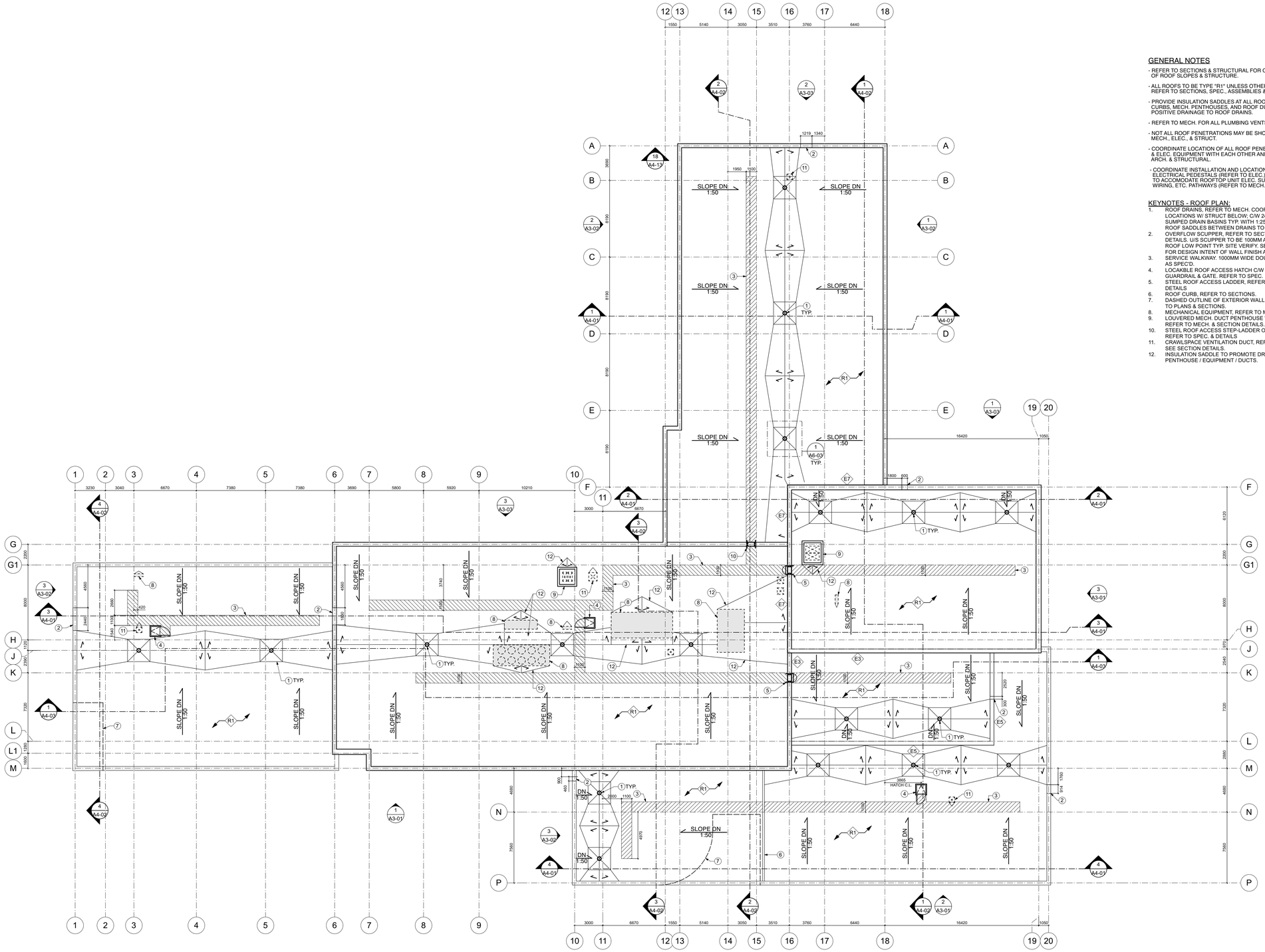
NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

drawing information

KEY PLAN SECOND FLOOR

drawn by:	**SK**
approved by:	**LO**
scale:	**1:100**
date issued:	**2023.03.24**
proj. #:	**2021.49**
rev. #:	**R-0**

A2 02



1 A2-03 ROOF PLAN
Scale: 1:200

GENERAL NOTES

- REFER TO SECTIONS & STRUCTURAL FOR COORDINATION OF ROOF SLOPES & STRUCTURE.
- ALL ROOFS TO BE TYPE "R1" UNLESS OTHERWISE INDICATED. REFER TO SECTIONS, SPEC., ASSEMBLIES & STRUCTURAL
- PROVIDE INSULATION SADDLES AT ALL ROOF-TOP EQUIPMENT CURBS, MECH. PENTHOUSES, AND ROOF DUCTS TO PROMOTE POSITIVE DRAINAGE TO ROOF DRAINS.
- REFER TO MECH. FOR ALL PLUMBING VENTS.
- NOT ALL ROOF PENETRATIONS MAY BE SHOWN COORD. W/ MECH., ELEC., & STRUCT.
- COORDINATE LOCATION OF ALL ROOF PENETRATIONS, MECH., & ELEC. EQUIPMENT WITH EACH OTHER AND WITH ARCH. & STRUCTURAL.
- COORDINATE INSTALLATION AND LOCATIONS OF ALL ELECTRICAL PEDESTALS (REFER TO ELEC.) AND RAISED CURBS TO ACCOMODATE ROOFTOP UNIT ELEC. SUPPLY, CONTROLS WIRING, ETC. PATHWAYS (REFER TO MECH. AND ELEC.)

KEYNOTES - ROOF PLAN:

1. ROOF DRAINS, REFER TO MECH. COORDINATE DRAIN LOCATIONS W/ STRUCT BELOW; C/W 2400 X 2400 SUMPED DRAIN BASINS TYP. WITH 1:25 SLOPE. PROVIDE ROOF SADDLES BETWEEN DRAINS TO SUIT TYP.
2. OVERFLOW SCUPPER, REFER TO SECTIONS & SECTION DETAILS. U/S SCUPPER TO BE 100MM ABOVE FINISH ROOF LOW POINT TYP. SITE VERIFY. SEE ELEVATIONS FOR DESIGN INTENT OF WALL FINISH AT SCUPPER.
3. SERVICE WALKWAY. 1000MM WIDE DOUBLE CAP SHEET AS SPEC'D.
4. LOCAKBLE ROOF ACCESS HATCH C/W SAFETY GUARDRAIL & GATE. REFER TO SPEC.
5. STEEL ROOF ACCESS LADDER, REFER TO SPEC. & DETAILS
6. ROOF CURB, REFER TO SECTIONS.
7. DASHED OUTLINE OF EXTERIOR WALL BELOW. REFER TO PLANS & SECTIONS.
8. MECHANICAL EQUIPMENT, REFER TO MECH. & STRUCT.
9. LOUVERED MECH. DUCT PENTHOUSE W/ ROOF CURB, REFER TO MECH. & SECTION DETAILS.
10. STEEL ROOF ACCESS STEP-LADDER OVER ROOF CURB, REFER TO SPEC. & DETAILS
11. CRAWLSPACE VENTILATION DUCT, REFER TO MECH. SEE SECTION DETAILS.
12. INSULATION SADDLE TO PROMOTE DRAINAGE AROUND PENTHOUSE / EQUIPMENT / DUCTS.

CONSTRUCTION NORTH

TRUE NORTH

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PROVINCE OF MANITOBA LINDSAY OSTER 2023-03-24 REGISTERED ARCHITECT

PROVINCE OF MANITOBA PRAIRIE ARCHITECTS INC. No. 029 APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

drawing information

ROOF PLAN

drawn by:	SK
approved by:	LO
scale:	1:100
date issued:	2023.03.24
proj. #:	2021.49
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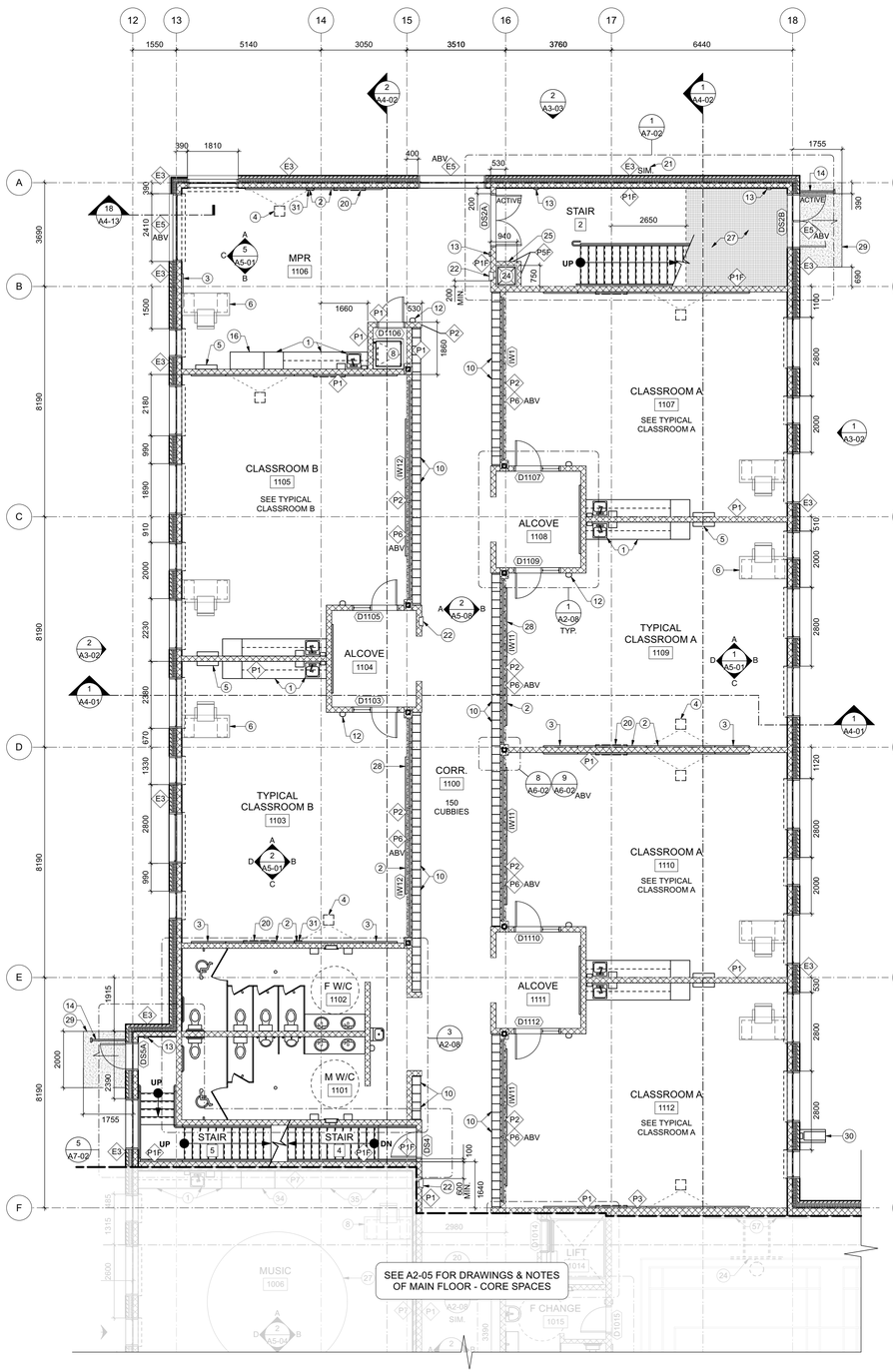
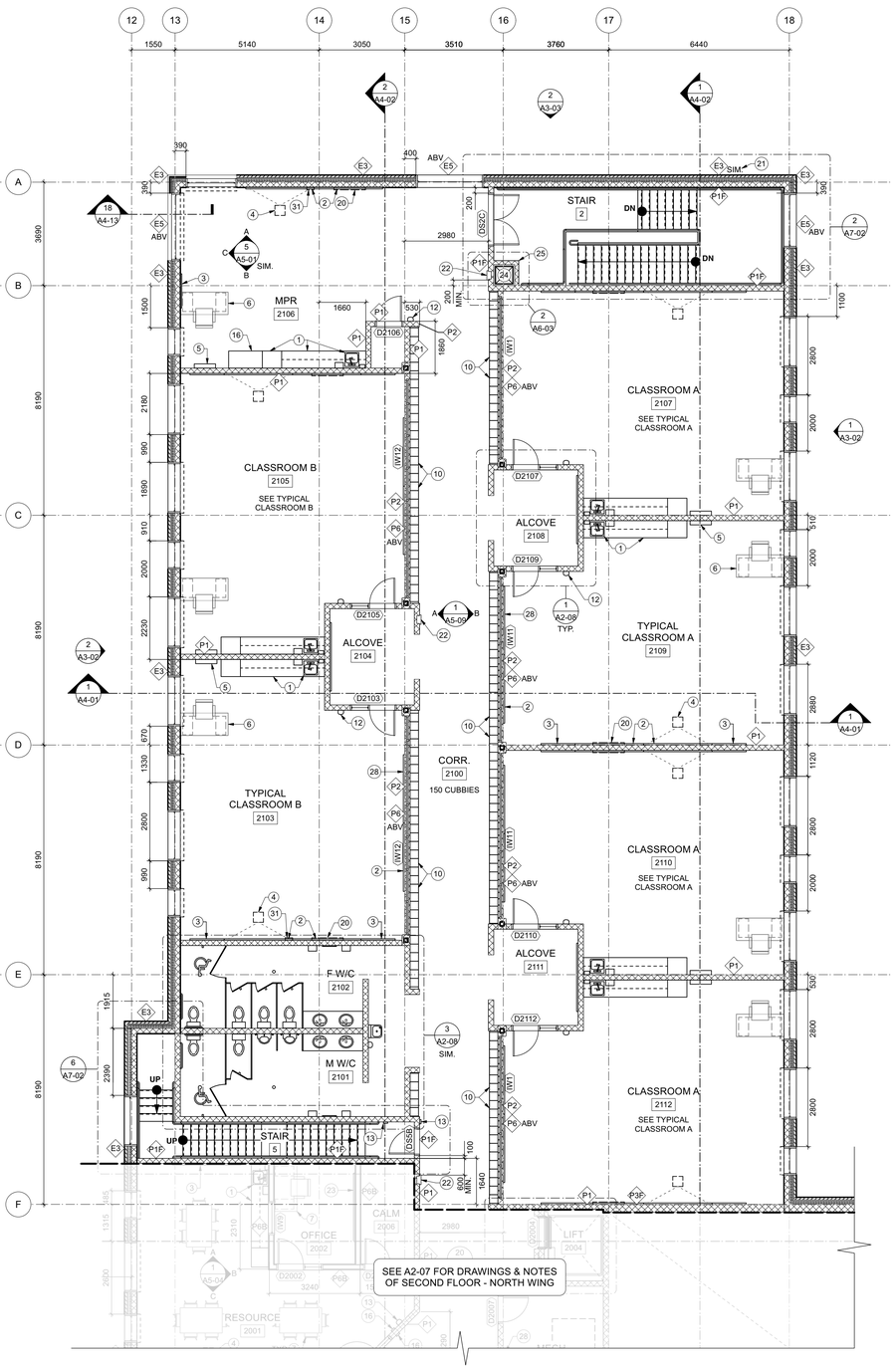
NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

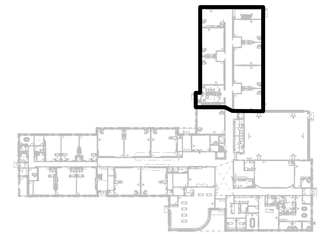
A2 03



1 A2-04 MAIN FLOOR PLAN - EAST WING
Scale: 1:100



2 A2-04 SECOND FLOOR PLAN - EAST WING
Scale: 1:100



- A2-04 KEY PLAN
Scale: 1:1000

GENERAL NOTES - FLOOR PLANS:

- CONTRACTOR TO SITE VERIFY ALL DIMENSIONS AND OPENINGS. DIMENSIONS TYPICAL FROM FACE OF STUD, FACE OF CONC., OR GRID LINE.
- REFER TO INTERIOR ELEVATIONS, SPECIFICATION, & MILLWORK DETAILS FOR ALL MILLWORK. REFER TO MECH. & ELEC. FOR BUILT-IN SINKS, PLUMBING, AND POWER / DATA.
- MILLWORK HEIGHTS MAY VARY BETWEEN SPACES. IN ALL CASES, CONFIRM WITH INTERIOR ELEVATIONS & MILLWORK DETAILS.
- ENSURE SUITABLE MEANS OF ANCHORAGE OR ADEQUATE BLOCKING FOR ALL WALL & CEILING-MOUNTED EQUIPMENT, FIXTURES, AND MILLWORK.
- REFER TO DRAWINGS FOR MOUNTING HEIGHT OF EQUIPMENT, FIXTURES, AND MILLWORK. CONFIRM WITH CONSULTANT IF NOT INDICATED.
- APPLIANCES N.I.C. TYP. OWNER PROVIDED & CONTRACTOR INSTALLED.
- ROUGH-IN FOR ALL APPLIANCES AND EQUIPMENT IS IN CONTRACT UNLESS OTHERWISE INDICATED. REFER TO MECH. & ELEC.
- EXPOSED CORNERS OF WALLS SHOULD BE TREATED FOR DURABILITY TYPICALLY. PROVIDE CORNER GUARDS FOR CONCRETE BLOCK WALLS. PROVIDE STAINLESS STEEL CORNER GUARDS FOR GWB PARTITIONS, OR WRAP WALL PROTECTION AROUND CORNER WHERE GWB PARTITIONS HAVE PVC WALL PROTECTION. REFER TO SPEC.
- MAINTAIN REQUIRED F.R.R. AT ALL OPENINGS IN ALL FIRE-RATED ASSEMBLIES. **REFER TO A0-02 FIRE SAFETY DIAGRAMS & SECTIONS FOR LOCATION AND EXTENT OF RATINGS.**
- PROVIDE MANUAL PULL-DOWN BLINDS AT ALL EXTERIOR WINDOWS TYP., UNLESS OTHERWISE NOTED. REFER TO INTERIOR ELEVATIONS, SPEC. & WINDOW SCHEDULES.
- REFER TO SPEC. & INTERIOR ELEVATIONS FOR LOCATIONS OF PAPER TOWEL DISP., SOAP DISP., ELECTRIC HAND DRYERS, AND OTHER WASHROOM ACCESSORIES.
- ALL PARTITIONS TO EXTEND CONTINUOUS FROM FLOOR SLAB TO U/S STRUCTURAL BEAM, FLOOR AND/OR ROOF DECK ABOVE (WHICHEVER IS HIGHER) UNLESS OTHERWISE INDICATED. REFER TO SECTIONS & STRUCT. ALL PARTITIONS TO BE SOUND-RATED UNLESS OTHER NOTED. - ADD CONTINUOUS PERIM. SILL GASKET AND ACOUSTIC SEALANT AT BASE PLATE (TYP.) BOTH SIDES OF PARTITION.
- ALL PARTITIONS TO BE TYPE 'P1' UNLESS OTHERWISE INDICATED, ALL EXTERIOR WALLS ABOVE GRADE TO BE TYPE 'E3' UNLESS OTHERWISE INDICATED. REFER TO ELEVATION, SECTIONS, & DETAILS.
- ALL CMU PARTITIONS (INCLUDING NON-LOADBEARING) TO CONTINUE ABOVE OPENINGS INCLUDING MASONRY LINTELS AS REQUIRED BY STRUCTURAL LINTEL SIZING - UNLESS OTHERWISE INDICATED.
- DOOR ROUGH OPENINGS TO BE THE FOLLOWING DISTANCE FROM ADJ. WALL (ON HINGE SIDE) UNLESS OTHERWISE INDICATED: 200MM IN CONC. BLK, 100MM IN STL STUD. REFER TO PLANS, EXPANDED PLANS, & PLAN DETAILS.
- REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION FOR WASHROOMS. LOCATIONS & MOUNTING HEIGHTS OF WASHROOM ACCESSORIES, ETC.

KEYNOTES - EAST WING:

1. TYP. UPPER & LOWER CLASSROOM MILLWORK W/ TALL STORAGE AT END & BUILT-IN COUNTERTOP HAND-WASHING SINK. REFER TO MECH.
2. MAGNETIC WHITEBOARD, FULL-SIZE. PROVIDE FINISH APPROPRIATE FOR DISPLAY AT PROJECTOR LOCATIONS. REFER TO INT. ELEVS & SPEC.
3. TACKBOARD, HALF-SIZE. REFER TO INT. ELEVS & SPEC.
4. WALL-MOUNTED INTERACTIVE WHITEBOARD PROJECTOR, N.I.C. BY OWNER, CONTRACTOR INSTALLED. REFER TO INT. ELEVS. & ELEC. COORD. LOCATION W/ DISPLAY SURFACE AND MANUF. INSTRUCTIONS.
5. WALL-MOUNTED TABLET CHARGING STATION, N.I.C. BY OWNER, CONTRACTOR INSTALLED. REFER TO INT. ELEVS & ELEC.
6. EXAMPLE FURNITURE LAYOUT, N.I.C.
7. UPPER & LOWER MILLWORK W/ COUNTERTOP
8. LOCKABLE FLOOR HATCH W/ STEEL ACCESS LADDER BELOW. PROVIDE WALL-MOUNTED GRAB BAR. SEE SPEC. & DETAILS.
9. TALL STORAGE CABINET MILLWORK
10. MILLWORK CUBBIES
11. COT STORAGE MILLWORK W/ UPPER CABINETS
12. HAND-SANITIZER DISPENSER, REFER TO SPEC.
13. DOOR AUTO-OPERATOR ACTUATOR, REFER TO ELEC. & INT. ELEVS.
14. MTL GUIDE RAIL W/ POST & DOOR AUTO-OPERATOR ACTUATOR, SEE DETAILS 13 & 14 / A6-03. REFER TO SPEC., STRUCT. & ELEC.
15. SINGLE-COMPARTMENT COUNTERTOP HAND-WASHING SINK, REFER TO MECH.
16. ALTERNATE PRICE: ADDITIONAL STORAGE MILLWORK IN MPR SPACES
17. UPPER MILLWORK STORAGE CABINETS ABOVE CUBBIES.
18. MIRROR, REFER TO INT. ELEVS. & SPEC.
19. FIRE DEPT. CONNECTION, REFER TO MECH.
20. WALL-MOUNTED SPEAKER BAR, N.I.C. BY OWNER, CONTRACTOR INSTALLED. REFER TO INT. ELEVS. & ELEC. CONFIRM LOCATION PRIOR TO ROUGH-IN.
21. THIS WALL OF STAIR 2 WILL BE INT. FIRE SEP. IN FUTURE WHEN ADDITION IS BUILT. CMU IN WALL ASSEMBLY TO BE 1-HR FIRE RATED.
22. RECESSED WALL-MOUNTED FIRE EXT. CABINET, SEE PLAN DETAILS, STRUCT. & SPEC.
23. WALL-MOUNTED FIRE EXT., REFER TO SPEC.
24. MECH. DUCT FROM CRAWLSPACE TO ROOF, REFER TO MECH. PROVIDE FIRE DAMPER AND FIRE-STOPPING SYSTEM AT SECOND FLOOR PENETRATION TO MAINTAIN CONTINUOUS REQ. FIRE SEP. BTWN FLOORS. REFER TO FIRE SAFETY DIAGRAMS, SECTIONS, AND SPEC.
25. CONTINUOUS FIRE-RATED MECH. DUCT CHASE FROM CRAWLSPACE TO ROOF, REFER TO MECH. ENSURE CONTINUOUS FIRE SEPARATION BETWEEN CHASE AND EXIT STAIR AS WELL AS BETWEEN FIRST AND SECOND FLOOR. PROVIDE FIRE STOPPING SYSTEM & FIRE DAMPERS AS REQUIRED. REFER TO SPEC. & FIRE SAFETY DIAGRAMS.
26. WALL FOUNTAIN, REFER TO MECH. & ELEC.
27. WALK-OFF MAT / GRID, REFER TO SPEC.
28. TACKBOARD, FULL-SIZE. REFER TO INT. ELEVS & SPEC.
29. CONC. ENTRY SLAB, SLOPE 2% AWAY FROM BLDG. SEE STRUCT. & SECTIONS
30. SUMP PUMP DISCHARGE TO CONC. SPLASH PAD @ GRADE. SEE LANDSCAPE & SPEC.
31. WALL-MOUNTED P.A. CLOCK. REFER TO INT. ELEVS. & ELEC. CONFIRM LOCATION PRIOR TO ROUGH-IN.

CONSTRUCTION NORTH
TRUE NORTH

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PROVINCE OF MANITOBA — LINDSAY OSTER — 2023-03-24 — REGISTERED ARCHITECT

PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. — No. 028 — APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

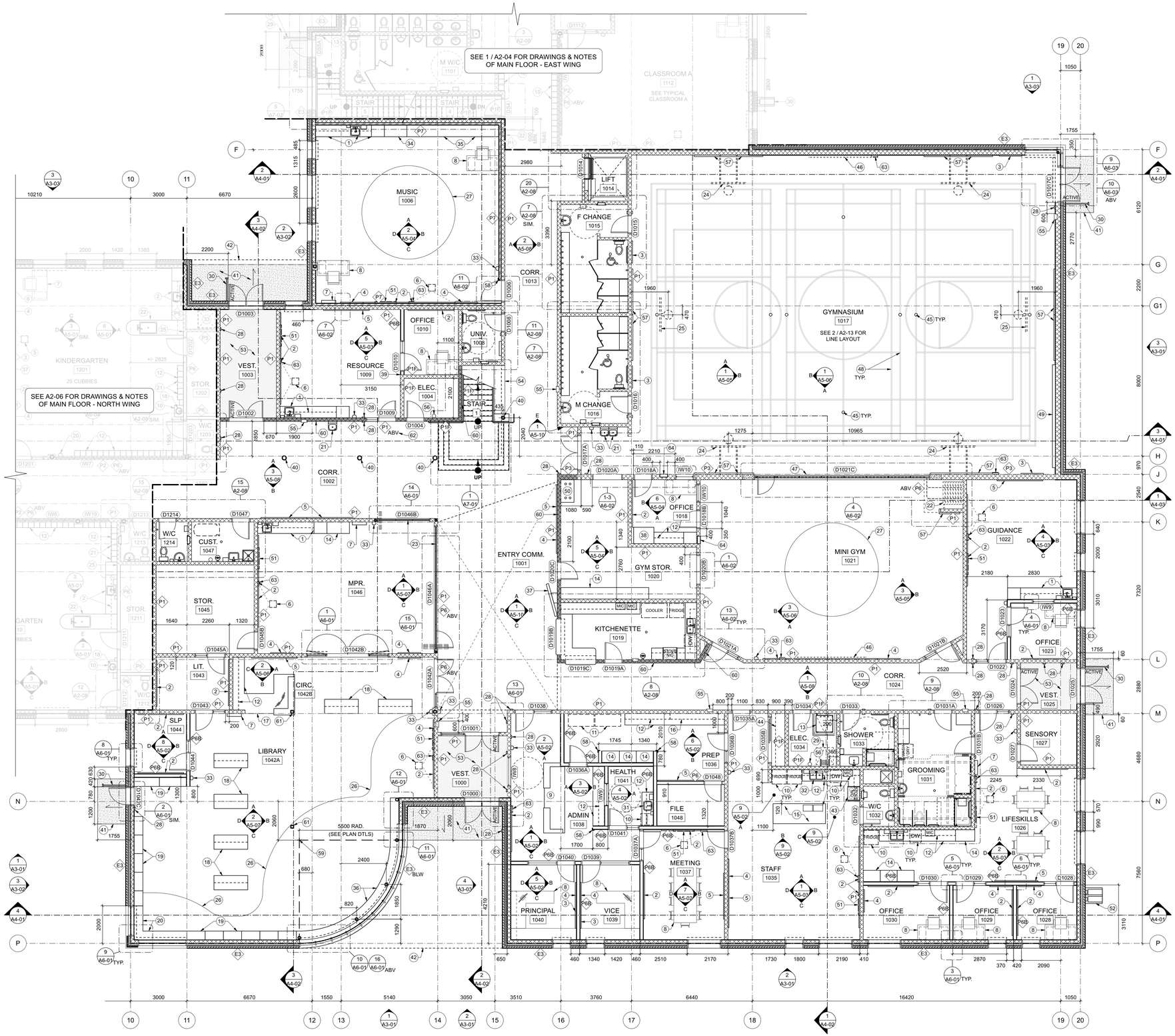
drawing information

PLAN - EAST WING - MAIN & SECOND

drawn by: **SK**
approved by: **LO**

scale: **1:100**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

A2 04



1 / A2-05 MAIN FLOOR PLAN - CORE SPACES
Scale: 1:100

- / A2-05 KEY PLAN
Scale: 1:1000

GENERAL NOTES - FLOOR PLANS:

- CONTRACTOR TO SITE VERIFY ALL DIMENSIONS AND OPENINGS. DIMENSIONS TYPICAL FROM FACE OF STUD, FACE OF CONC., OR GRID LINE.
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- MILLWORK HEIGHTS MAY VARY BETWEEN SPACES. IN ALL CASES, CONFIRM WITH INTERIOR ELEVATIONS & MILLWORK DETAILS.
- ENSURE SUITABLE MEANS OF ANCHORAGE OR ADEQUATE BLOCKING FOR ALL WALL & CEILING-MOUNTED EQUIPMENT, FIXTURES, AND MILLWORK.
- REFER TO DRAWINGS FOR MOUNTING HEIGHT OF EQUIPMENT, FIXTURES, AND MILLWORK. CONFIRM WITH CONSULTANT IF NOT INDICATED.
- APPLIANCES N.I.C. TYP., OWNER PROVIDED & CONTRACTOR INSTALLED.
- ROUGH-IN FOR ALL APPLIANCES AND EQUIPMENT IS IN CONTRACT UNLESS OTHERWISE INDICATED. REFER TO MECH. & ELEC.
- EXPOSED CORNERS OF WALLS SHOULD BE TREATED FOR DURABILITY TYPICALLY. BULLNOSE EXPOSED CORNERS OF CONCRETE BLOCK WALLS. PROVIDE STAINLESS STEEL CORNER GUARDS FOR GWB PARTITIONS, OR WRAP WALL BOARD ON EXPOSED CORNER WHERE GWB PARTITIONS HAVE PVC WALL PROTECTION. REFER TO SPEC.
- MAINTAIN REQUIRED F.R.R. AT ALL OPENINGS IN ALL FIRE-RATED ASSEMBLIES. **REFER TO A0-02 FIRE SAFETY DIAGRAMS & SECTIONS FOR LOCATION AND EXTENT OF RATINGS.**
- PROVIDE MANUAL PULLDOWN BLINDS AT ALL EXTERIOR WINDOWS TYP., UNLESS OTHERWISE NOTED, REFER TO INTERIOR ELEVATIONS, SPEC. & WINDOW SCHEDULES.
- REFER TO SPEC. & INTERIOR ELEVATIONS FOR LOCATIONS OF PAPER TOWEL DISP., SOAP DISP., ELECTRIC HAND DRYERS, AND OTHER WASHROOM ACCESSORIES.
- ALL PARTITIONS TO EXTEND CONTINUOUS FROM FLOOR SLAB TO U/S STRUCTURAL BEAM, FLOOR AND/OR ROOF DECK ABOVE (WHICHEVER IS HIGHER) UNLESS OTHERWISE INDICATED. ALL CMU PARTITIONS TO BE CONTINUOUS FROM FLOOR TO U/S OF ROOF DECK UNLESS OTHER NOTED. ALL CONTROL JOINTS TO BE FILLED WITH SILL GASKET AND ACOUSTIC SEALANT AT BASE PLATE (TYP.) BOTH SIDES OF PARTITION.
- ALL PARTITIONS TO BE TYPE 'P1' UNLESS OTHERWISE INDICATED. ALL EXTERIOR WALLS ABOVE GRADE TO BE TYPE 'E3' UNLESS OTHERWISE INDICATED. REFER TO ELEVATION, SECTIONS, & DETAILS.
- ALL CMU PARTITIONS (INCLUDING NON-LOADBEARING) TO CONTINUE ABOVE OPENINGS INCLUDING MASONRY LINTELS AS REQUIRED BY STRUCTURAL LINTEL SIZING - UNLESS OTHERWISE INDICATED.
- DOOR ROUGH OPENINGS TO BE THE FOLLOWING DISTANCE FROM ADJ. WALL (ON HINGE SIDE) UNLESS OTHERWISE INDICATED: 200MM IN CONC. BLK, 100MM IN STL STUD. REFER TO PLANS, EXPANDED PLANS, & PLAN DETAILS.
- REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION FOR WASHROOMS. LOCATIONS & MOUNTING HEIGHTS OF WASHROOM ACCESSORIES, ETC.

KEYNOTES - CORE SPACES:

1. TYP. UPPER & LOWER CLASSROOM MILLWORK W/ TALL STORAGE AT END & BUILT-IN COUNTERTOP HAND-WASHING SINK. REFER TO MECH.
2. MAGNETIC WHITEBOARD, FULL-SIZE. PROVIDE FINISH APPROPRIATE FOR DISPLAY AT PROJECTOR LOCATIONS. REFER TO INT. ELEVS & SPEC.
3. MAGNETIC WHITEBOARD, HALF-SIZE. REFER TO INT. ELEVS & SPEC.
4. TACKBOARD, HALF-SIZE. REFER TO INT. ELEVS & SPEC.
5. TACKBOARD, FULL-SIZE. REFER TO INT. ELEVS & SPEC.
6. WALL-MOUNTED INTERACTIVE WHITEBOARD PROJECTOR, N.I.C. BY OWNER, CONTRACTOR INSTALLED. REFER TO INT. ELEVS. & ELEC. COORD. LOCATION W/ DISPLAY SURFACE AND MANUF. INSTRUCTIONS.
7. WALL-MOUNTED TABLET CHARGING STATION, N.I.C. BY OWNER, CONTRACTOR INSTALLED. REFER TO INT. ELEVS & ELEC.
8. EXAMPLE FURNITURE LAYOUT, N.I.C.
9. RECEPTION COUNTER MILLWORK, SEE 1 / A8-04 FOR PLAN DETAIL.
10. APPLIANCES, N.I.C. TYP. OWNER PROVIDED, CONTRACTOR INSTALLED.
11. PRINTERS, N.I.C.
12. UPPER & LOWER MILLWORK W/ COUNTERTOP
13. LOCKABLE FLOOR HATCH W/ STEEL ACCESS LADDER BELOW. PROVIDE SAFETY RAIL ON 2 SIDES W/ GATE & WALL-MOUNTED GRAB BAR, SEE SPEC. & DETAILS. 200MM BETWEEN SOUTH WALL AND OPERABLE PORTION OF HATCH TO ALLOW HATCH TO SWING FREE PAST WALL-MOUNTED ELECTRICAL PANELS. SEE ELEC.
14. TALL STORAGE CABINET MILLWORK.
15. MILLWORK STAFF ISLAND, REFER TO 9 / A5-02.
16. MAILBOX MILLWORK
17. LIBRARIAN COUNTER MILLWORK, SEE 1 / A8-05 FOR PLAN DETAIL.
18. MOBILE BOOKSHELF MILLWORK, LOW-HEIGHT, DOUBLE-SIDED
19. MILLWORK BOOKCASE
20. MILLWORK BENCH
21. WALL FOUNTAIN, REFER TO MECH. & ELEC.
22. STORAGE LOCATION FOR OPERABLE PARTITION PANELS WHEN OPEN. REMOTE EXPANDABLE CLOSURE TO CLOSE OFF POCKET WHEN PANELS IN STORAGE. CONFIRM DIMENSIONS REQ'D FOR POCKET WITH PANEL SYSTEM MANUF. REFER TO SPEC.
23. GLAZED OPERABLE MPR PARTITION, 3000MM HIGH, REFER TO SPEC.
24. FOLDING, WALL-MOUNTED BASKETBALL HOOP W/ BACKSTOP. REFER TO SPEC.
25. MOTORIZED, CEILING-MOUNTED BASKETBALL HOOP W/ BACKSTOP, REFER TO SPEC.
26. EDGE OF FLOCKED RESILIENT FLOORING. REFER TO FLOOR FINISH PLAN & SPEC.
27. 16' DIA. CIRCLE WITHIN FLOOR MATL. REFER TO FLOOR FINISH SCHEDULE AND SPEC.
28. DOOR AUTO-OPERATOR ACTUATOR, REFER TO ELEC. & INT. ELEVS.
29. LOCKABLE ROOF HATCH ABOVE W/ STEEL ACCESS LADDER, REFER TO SPEC. & DETAILS. LADDER TO BE 365MM FROM SOUTH WALL MIN.
30. MTL GUIDE RAIL W/ POST & DOOR AUTO-OPERATOR ACTUATOR, SEE DETAILS 13 & 14 / A6-03. REFER TO SPEC., STRUCT. & ELEC.
31. SINGLE-COMPARTMENT COUNTERTOP HAND-WASHING SINK, REFER TO MECH.
32. TWO-COMPARTMENT COUNTERTOP KITCHEN SINK, REFER TO MECH.
33. HAND-SANITIZER DISPENSER, REFER TO SPEC.
34. ALT. PRICE: TALL MILLWORK STORAGE CABINET W/ INTEGRATED MILLWORK CART.
35. ALT. PRICE: TALL MILLWORK STORAGE W/ ADJUSTABLE SHELVING
36. ALT. PRICE: CURVED MILLWORK BENCH ALONG WINDOW
37. WALL-MOUNTED DIGITAL DISPLAY W/ ANGLE ADJUSTABLE BRACKET, N.I.C, BY OWNER, CONTRACTOR INSTALLED. REFER TO INT. ELEVS & ELEC.
38. MILLWORK CABINET FOR A/V EQUIPMENT, REFER TO ELEC.
39. ALIGN FACE OF GWB PARTITION FLUSH W/ FACE OF CMU
40. EXPOSED ROUND STL. COLUMN, REFER TO STRUCT. INTUMESCENT COATING & PAINT FINISH, REFER TO SPEC.
41. CONC. ENTRY SLAB, SLOPE 2% AWAY FROM BLDG. SEE STRUCT. & SECTIONS
42. DASHED OUTLINE OF ROOF / SOFFIT ABOVE, REFER TO SECTIONS & ROOF PLAN.
43. STOVE WITH RANGEHOOD, N.I.C. REFER TO MECH. & ELEC.
44. MILLWORK SHELF W/ COAT ROD
45. PROVIDE 8 POST SOCKETS RECESSED INTO GYM FLOOR FOR SETUP OF VOLLEYBALL AND BADMINTON NETS. CONFIRM FINAL SOCKET LAYOUT WITH OWNER & COORD. W/ LINE PAINTING. REFER TO 2 / A2-13.
46. WALL-MOUNTED MOTORIZED PROJECTION SCREEN, N.I.C. BY OWNER, CONTRACTOR INSTALLED.
47. OPERABLE GYM PARTITION, 3000MM HIGH, REFER TO SPEC. GYM FLOORING TO RUN THROUGH OPENING AND INTO MINI-GYM, SEAMLESS. CONCRETE COL. BOTH SIDES OF OPENING & LINTEL ABOVE, SEE STRUCT. PASS THROUGH DOOR IN PANEL AT ONE END.
48. GYM FLOOR LINE PAINTING. REFER TO 2 / A2-13 & SPEC.
49. CLIMBING WALL, N.I.C. BY OWNER, CONTRACTOR INSTALLED.
50. 150 DEEP CONCRETE PAD CAST ONTOP OF SLAB W/ 8 POST STORAGE SOCKETS / SLEEVES (REFER TO SPEC.) RECESSED INTO PAD FOR STORAGE OF VOLLEYBALL AND BADMINTON POSTS. REFER TO STRUCT. CONFIRM SOCKET LAYOUT WITH OWNER.
51. WALL-MOUNTED SPEAKER BAR, N.I.C. BY OWNER, CONTRACTOR INSTALLED. REFER TO INT. ELEVS. & ELEC. CONFIRM LOCATION PRIOR TO ROUGH-IN.
52. SUMP PUMP DISCHARGE TO CONC. SPLASH PAD @ GRADE, SEE LANDSCAPE & SPEC.
53. WALK-OFF MAT / GRID, REFER TO SPEC.
54. MILLWORK PLATFORM & BENCH BELOW, SEE STAIR & MILLWORK DTLS.
55. RECESSED WALL-MOUNTED FIRE EXT. CABINET, SEE PLAN DETAILS, STRUCT. & SPEC.
56. WALL-MOUNTED FIRE EXT., REFER TO SPEC.
57. GYM SAFETY WALL MATS, REFER TO INTERIOR ELEVATIONS & SPEC.
58. CORNER GUARD TYP. ON ALL OUTSIDE CORNERS OF GWB WALLS, REFER TO SPEC.
59. CENTRE POINT OF CURVED CONC. BLK RADIUS, REFER TO PLAN DETAILS & STRUCT.
60. ALTERNATE PRICE: REPLACE CONC. BLK W/ TERRAZO CONC. BLK AT ONLY THE LOCATIONS INDICATED, TO THE EXTENT SHOWN DARKER. MAINTAIN REQUIRED FIRE RATINGS. COORD. W/ STRUCTURAL, REFER TO SPEC.
61. STL. COLUMN, REFER TO STRUCT.
62. CMU PARTITION TO MATCH ADJACENT WALL ASSEMBLY C/W MASONRY LINTEL TO CONTINUE ABOVE ALL OPENINGS TO U/S OF STRUCTURE - TYP. UNLESS OTHERWISE INDICATED
63. WALL-MOUNTED P.A. CLOCK, REFER TO INT. ELEVS. & ELEC. CONFIRM LOCATION PRIOR TO ROUGH-IN.
64. GYM OR MINI-GYM CONTROL PANEL, REFER TO ELEC. COORD. W/ STRUCT.

CONSTRUCTION NORTH

TRUE NORTH

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issue / rev.

#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

PROVINCE OF MANITOBA — LINDSAY OSTER — 2023-03-24 — REGISTERED ARCHITECT

PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. — No. 028 — APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive Steinbach, MB

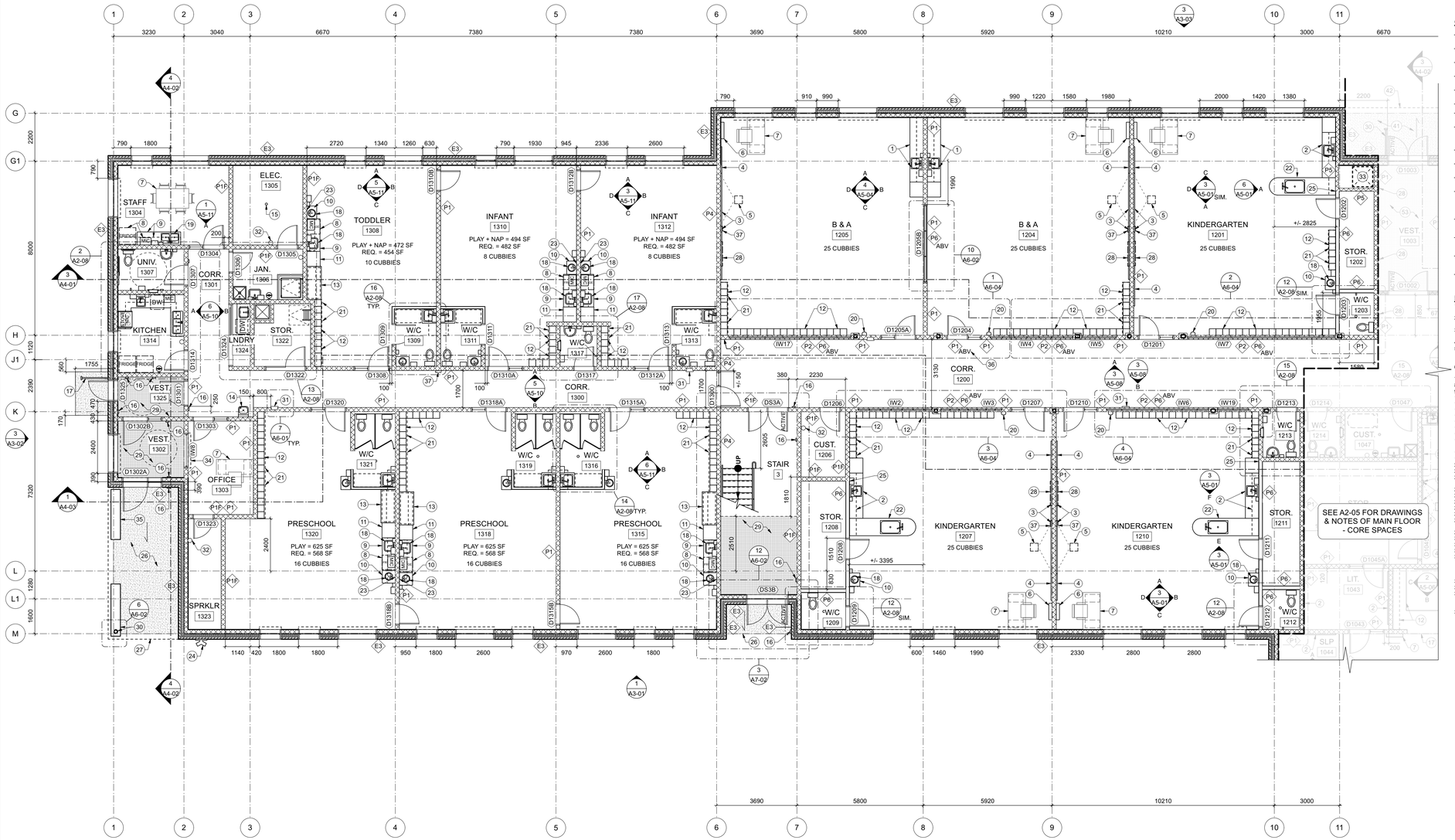
drawing information

PLAN - CORE SPACES - MAIN FLOOR

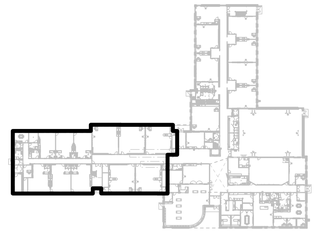
drawn by: **SK**
approved by: **LO**

scale: **1:100**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

A2 05



1 A2-06 MAIN FLOOR PLAN - NORTH WING
Scale: 1:100



- A2-06 KEY PLAN
Scale: 1:1000

GENERAL NOTES - FLOOR PLANS:

- CONTRACTOR TO SITE VERIFY ALL DIMENSIONS AND OPENINGS. DIMENSIONS TYPICAL FROM FACE OF STUD, FACE OF CONC., OR GRID LINE.
- REFER TO INTERIOR ELEVATIONS, SPECIFICATION, & MILLWORK DETAILS FOR ALL MILLWORK. REFER TO MECH. & ELEC. FOR BUILT-IN SINKS, PLUMBING, AND POWER / DATA.
- MILLWORK HEIGHTS MAY VARY BETWEEN SPACES. IN ALL CASES, CONFIRM WITH INTERIOR ELEVATIONS & MILLWORK DETAILS.
- ENSURE SUITABLE MEANS OF ANCHORAGE OR ADEQUATE BLOCKING FOR ALL WALL & CEILING-MOUNTED EQUIPMENT, FIXTURES, AND MILLWORK.
- REFER TO DRAWINGS FOR MOUNTING HEIGHT OF EQUIPMENT, FIXTURES, AND MILLWORK. CONFIRM WITH CONSULTANT IF NOT INDICATED.
- APPLIANCES N.I.C. TYP., OWNER PROVIDED & CONTRACTOR INSTALLED.
- ROUGH-IN FOR ALL APPLIANCES AND EQUIPMENT IS IN CONTRACT UNLESS OTHERWISE INDICATED. REFER TO MECH. & ELEC.
- EXPOSED CORNERS OF WALLS SHOULD BE TREATED FOR DURABILITY TYPICALLY. BULLNOSE CARD OR SQUARE CORNERS TYPICAL ON BUILT-IN WALLS. PROVIDE STAINLESS STEEL CORNER GUARDS FOR GWB PARTITIONS, OR STRIP WALL PROTECTION AROUND CORNER WHERE GWB PARTITIONS HAVE PVC WALL PROTECTION. REFER TO SPEC.
- MAINTAIN REQUIRED F.R.R. AT ALL OPENINGS IN ALL FIRE-RATED ASSEMBLIES. **REFER TO A0-02 FIRE SAFETY DIAGRAMS & SECTIONS FOR LOCATION AND EXTENT OF RATINGS.**
- PROVIDE MANUAL PULLDOWN BLINDS AT ALL EXTERIOR WINDOWS TYP., UNLESS OTHERWISE NOTED. REFER TO INTERIOR ELEVATIONS, SPEC. & WINDOW SCHEDULES.
- REFER TO SPEC. & INTERIOR ELEVATIONS FOR LOCATIONS OF PAPER TOWEL DISP., SOAP DISP., ELECTRIC HAND DRYERS, AND OTHER WASHROOM ACCESSORIES.
- ALL PARTITIONS TO EXTEND CONTINUOUS FROM FLOOR SLAB TO U/S STRUCTURAL BEAM, PLOOR AND ROOF DECK ABOVE (WHICHEVER IS HIGHER) UNLESS OTHERWISE INDICATED. REFER TO SECTIONS & DETAILS. ALL PARTITIONS TO BE SOUND-ATT. UNLESS OTHERWISE NOTED - FULL CONTINUOUS SEALANT, SILL GASKET AND ACOUSTIC SEALANT AT BASE PLATE (TYP.) BOTH SIDES OF PARTITION.
- ALL PARTITIONS TO BE TYPE 'P1' UNLESS OTHERWISE INDICATED. ALL EXTERIOR WALLS ABOVE GRADE TO BE TYPE 'E3' UNLESS OTHERWISE INDICATED. REFER TO ELEVATION, SECTIONS, & DETAILS.
- ALL CMU PARTITIONS (INCLUDING NON-LOADBEARING) TO CONTINUE ABOVE OPENINGS INCLUDING MASONRY LINTELS AS REQUIRED BY STRUCTURAL LINTEL SIZING - UNLESS OTHERWISE INDICATED.
- DOOR ROUGH OPENINGS TO BE THE FOLLOWING DISTANCE FROM ADJ. WALL (ON HINGE SIDE) UNLESS OTHERWISE INDICATED: 200MM IN CONC. BLK, 100MM IN STL STUD. REFER TO PLANS, EXPANDED PLANS, & PLAN DETAILS.
- REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION FOR WASHROOMS. LOCATIONS & MOUNTING HEIGHTS OF WASHROOM ACCESSORIES, ETC.

KEYNOTES - NORTH WING - MAIN FLOOR:

1. TYP. UPPER & LOWER CLASSROOM MILLWORK W/ TALL STORAGE AT END & BUILT-IN COUNTERTOP HAND-WASHING SINK, REFER TO MECH.
2. UPPER & LOWER KINDERGARTEN MILLWORK W/ TALL STORAGE AT END & BUILT-IN COUNTERTOP HAND-WASHING SINK, REFER TO MECH.
3. MAGNETIC WHITEBOARD, FULL-SIZE. PROVIDE FINISH APPROPRIATE FOR DISPLAY AT PROJECTOR LOCATIONS. REFER TO INT. ELEVS & SPEC.
4. TACKBOARD, HALF-SIZE. REFER TO INT. ELEVS & SPEC.
5. WALL-MOUNTED INTERACTIVE WHITEBOARD PROJECTOR. N.I.C. BY OWNER, CONTRACTOR INSTALLED. REFER TO INT. ELEVS. & ELEC. COORD. LOCATION W/ DISPLAY SURFACE AND MANUF. INSTRUCTIONS.
6. WALL-MOUNTED TABLET CHARGING STATION, N.I.C. BY OWNER, CONTRACTOR INSTALLED. REFER TO INT. ELEVS & ELEC.
7. EXAMPLE FURNITURE LAYOUT, N.I.C.
8. APPLIANCES, N.I.C. TYP. OWNER PROVIDED, CONTRACTOR INSTALLED.
9. UPPER & LOWER MILLWORK W/ COUNTERTOP
10. LOWER MILLWORK W/ COUNTERTOP
11. TALL STORAGE CABINET MILLWORK
12. MILLWORK CUBBIES
13. COT STORAGE MILLWORK W/ UPPER CABINETS
14. WALL FOUNTAIN, REFER TO MECH. & ELEC.
15. FLOOR DRAIN. REFER TO MECH.
16. DOOR AUTO-OPERATOR ACTUATOR, REFER TO ELEC. & INT. ELEVS.
17. MTL GUIDE RAIL W/ POST & DOOR AUTO-OPERATOR ACTUATOR, SEE DETAILS 13 & 14 / A6-03. REFER TO SPEC., STRUCT. & ELEC.
18. SINGLE-COMPARTMENT COUNTERTOP HAND-WASHING SINK, REFER TO MECH.
19. TWO-COMPARTMENT COUNTERTOP KITCHEN SINK, REFER TO MECH.
20. HAND-SANITIZER DISPENSER, REFER TO SPEC.
21. UPPER MILLWORK STORAGE CABINETS ABOVE CUBBIES.
22. ALT. PRICE: LOW-HEIGHT MILLWORK COUNTER W/ STORAGE AND LARGE BUILT IN SINK, REFER TO MECH.
23. MIRROR, REFER TO INT. ELEVS. & SPEC.
24. FIRE DEPT. CONNECTION, REFER TO MECH.
25. ALIGN FACE OF GWB PARTITION FLUSH W/ FACE OF CMU
26. CONC. ENTRY SLAB, SLOPE 2% AWAY FROM BLDG. SEE STRUCT. & SECTIONS
27. DASHED OUTLINE OF ROOF / SOFFIT ABOVE. REFER TO SECTIONS & ROOF PLAN.
28. WALL-MOUNTED SPEAKER BAR, N.I.C. BY OWNER, CONTRACTOR INSTALLED. REFER TO INT. ELEVS. & ELEC. CONFIRM LOCATION PRIOR TO ROUGH-IN.
29. WALK-OFF MAT / GRID, REFER TO SPEC.
30. TYNDALL BENCH W/ STEEL COL. INTEGRATED. SEE STRUCT., SPEC., & SECTIONS.
31. RECESSED WALL-MOUNTED FIRE EXT. CABINET, SEE PLAN DETAILS, STRUCT. & SPEC.
32. WALL-MOUNTED FIRE EXT., REFER TO SPEC.
33. MECH. DUCT FROM CRAWLSPACE TO ROOF. REFER TO MECH. PROVIDE FIRE DAMPER AND FIRE-STOPPING SYSTEM AT SECOND FLOOR PENETRATION TO MAINTAIN CONTINUOUS REQ. FIRE SEP. BTWN FLOORS. REFER TO FIRE SAFETY DIAGRAMS, SECTIONS, AND SPEC.
34. PROVIDE BLINDS FOR THIS INTERIOR WINDOW, REFER TO SPEC.
35. TYNDALL BENCH, REFER TO SECTIONS & SPEC.
36. CMU PARTITION TO MATCH ADJACENT WALL ASSEMBLY C/W MASONRY LINTEL TO CONTINUE ABOVE ALL OPENINGS TO U/S OF STRUCTURE - TYP. UNLESS OTHERWISE INDICATED
37. WALL-MOUNTED P.A. CLOCK. REFER TO INT. ELEVS. & ELEC. CONFIRM LOCATION PRIOR TO ROUGH-IN.

CONSTRUCTION NORTH

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issue / rev.

#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

PROVINCE OF MANITOBA — LINDSAY OSTER — 2023-03-24 — REGISTERED ARCHITECT

PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. No. 026 — APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

drawing information

PLAN - NORTH WING - MAIN FLOOR

drawn by:	SK
approved by:	LO
scale:	1:100
date issued:	2023.03.24
proj. #:	2021.49
rev. #:	R-0

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

A2 06

GENERAL NOTES - FLOOR PLANS:

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- ENSURE SUITABLE MEANS OF ANCHORAGE OR ADEQUATE BLOCKING FOR ALL WALL & CEILING-MOUNTED EQUIPMENT, FIXTURES, AND MILLWORK.
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- EXPOSED CORNERS OF WALLS SHOULD BE TREATED FOR DURABILITY TYPICALLY. BULLNOSE EXPOSED CORNERS OF CONCRETE BLOCK WALLS, PROVIDE STAINLESS STEEL CORNER GUARDS FOR GWB PARTITIONS, OR WRAP WALL PROTECTION AROUND CORNER WHERE GWB PARTITIONS HAVE PVC WALL PROTECTION. REFER TO SPEC.
- MAINTAIN REQUIRED F.R.R. AT ALL OPENINGS IN ALL FIRE-RATED ASSEMBLIES. **REFER TO A0-02 FIRE SAFETY DIAGRAMS & SECTIONS FOR LOCATION AND EXTENT OF RATINGS.**
- PROVIDE MANUAL PULLDOWN BLINDS AT ALL EXTERIOR WINDOWS TYP., UNLESS OTHERWISE NOTED, REFER TO INTERIOR ELEVATIONS, SPEC. & WINDOW SCHEDULES.
- REFER TO SPEC. & INTERIOR ELEVATIONS FOR LOCATIONS OF PAPER TOWEL DISP., SOAP DISP., ELECTRIC HAND DRYERS, AND OTHER WASHROOM ACCESSORIES.
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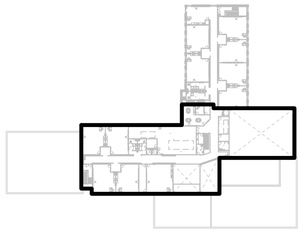
- REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION FOR WASHROOMS. LOCATIONS & MOUNTING HEIGHTS OF WASHROOM ACCESSORIES, ETC.

KEYNOTES - NORTH WING - SECOND FLOOR:

1. TYP. UPPER & LOWER CLASSROOM MILLWORK W/ BUILT-IN SINK, REFER TO INT. ELEVS, MILLWORK DETAILS, & MECH.
2. MILLWORK CUBBIES, REFER TO SPEC. & MILLWORK DETAILS.
3. TACKBOARD, FULL-SIZE. REFER TO INT. ELEVS & SPEC.
4. WALL-MOUNTED INTERACTIVE WHITEBOARD PROJECTOR, N.I.C. BY OWNER, CONTRACTOR INSTALLED. REFER TO INT. ELEVS. & ELEC.
5. TACKBOARD, HALF-SIZE. REFER TO INT. ELEVS & SPEC.
6. WALL-MOUNTED TABLET CHARGING STATION, N.I.C. BY OWNER, CONTRACTOR INSTALLED. REFER TO INT. ELEVS & ELEC.
7. EXAMPLE FURNITURE LAYOUT, N.I.C.
8. FLOOR DRAIN. REFER TO MECH. COORD. LOCN W/ MECH. & STRUCT.
9. LOCKABLE ROOF HATCH ABOVE W/ STEEL ACCESS LADDER. REFER TO SPEC. & DETAILS
10. MOP SINK. REFER TO MECH.
11. UPPER & LOWER MILLWORK. REFER TO MILLWORK DETAILS.
12. STEEL GUARD + HAND RAIL. REFER TO SPEC.
13. HAND-SANITIZER DISPENSER, REFER TO SPEC.
14. PRINTER / COPIER, N.I.C.
15. WALL SINK. REFER TO MECH.
16. DOOR AUTO-OPERATOR ACTUATOR, REFER TO ELEC. & INT. ELEVS.
17. WALL-MOUNTED EMERGENCY EYE-WASH STATION, REFER TO MECH.
18. ELEC. FLOOR MACHINE PARKING SPOT, FLOOR MACHINE N.I.C.
19. LOWER MILLWORK W/ COUNTERTOP
20. LARGER SINK FOR CLEANING / ART USE, REFER TO MECH.
21. WALL-MOUNTED SPEAKER BAR, N.I.C. BY OWNER, CONTRACTOR INSTALLED. REFER TO INT. ELEVS. & ELEC. CONFIRM LOCATION PRIOR TO ROUGH-IN.
22. MECH. AIR HANDLING UNIT, REFER TO MECH.
23. MAGNETIC WHITEBOARD, FULL-SIZE. REFER TO INT. ELEVS & SPEC.
24. ANGLED GWB SURFACE BELOW. REFER TO SECTIONS.
25. MILLWORK BENCH
26. ALIGN TRANSITION TO METAL PANEL WITH CORNER OF BRICK BELOW. REFER TO ELEVATIONS.
27. RECESSED WALL-MOUNTED FIRE EXT. CABINET, REFER TO PLAN DETAILS & SPEC.
28. WALL-MOUNTED FIRE EXT., REFER TO SPEC.
29. MECH. DUCT FROM CRAWLSPACE TO ROOF. REFER TO MECH. PROVIDE FIRE DAMPER AND FIRE-STOPPING SYSTEM AT SECOND FLOOR PENETRATION TO MAINTAIN CONTINUOUS REQ. FIRE SEP. BTWN FLOORS. REFER TO FIRE SAFETY DIAGRAMS, SECTIONS, AND SPEC.
30. MECH. DUCT FROM MAIN TO SECOND FLOOR, REFER TO MECH. PROVIDE FIRE DAMPER AND FIRE-STOPPING SYSTEM AT SECOND FLOOR PENETRATION TO MAINTAIN CONTINUOUS REQ. FIRE SEP. BTWN FLOORS. REFER TO FIRE SAFETY DIAGRAMS, SECTIONS, AND SPEC.
31. ALTERNATE PRICE: REPLACE CONC. BLK W/ TERRAZO CONC. BLK. AT ONLY THE LOCATIONS INDICATED, TO THE EXTENT SHOWN DARKER. MAINTAIN REQUIRED FIRE RATINGS. COORD. W/ STRUCTURAL, REFER TO SPEC.
32. CMU PARTITION TO MATCH ADJACENT WALL ASSEMBLY C/W MASONRY LINTEL TO CONTINUE ABOVE ALL OPENINGS TO U/S OF STRUCTURE - TYP. UNLESS OTHERWISE INDICATED
33. WALL-MOUNTED P.A. CLOCK. REFER TO INT. ELEVS. & ELEC. CONFIRM LOCATION PRIOR TO ROUGH-IN.



- A2-07 KEY PLAN
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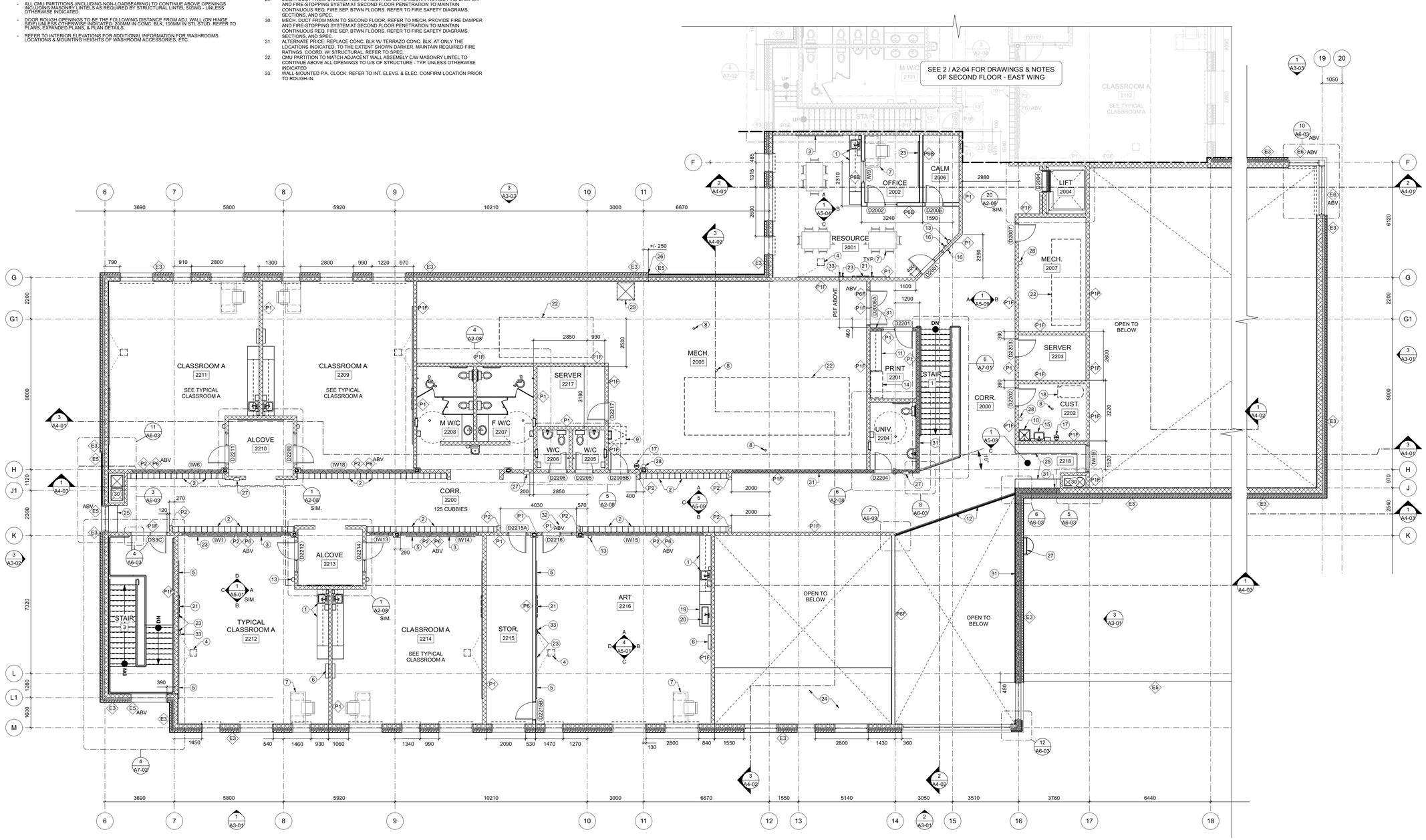

1 A2-07 SECOND FLOOR PLAN - NORTH WING
Scale: 1:100

CONSTRUCTION NORTH
TRUE NORTH

This drawing must not be scaled. The contractor shall verify all dimensions and other data on site prior to commencement of work. All discrepancies, errors, and omissions are to be reported to the architect. Drawing and specifications, as instruments of service, are the property of the architect, the copyright in the same being reserved to him. No reproduction may be made without the permission of the architect, and when made, must bear his name. All prints to be returned to the architect on request.

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issue / rev.

#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

PROVINCE OF MANITOBA — LINDSAY OSTER — 2023-03-24 — REGISTERED ARCHITECT

PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. — No. 025 — APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

drawing information

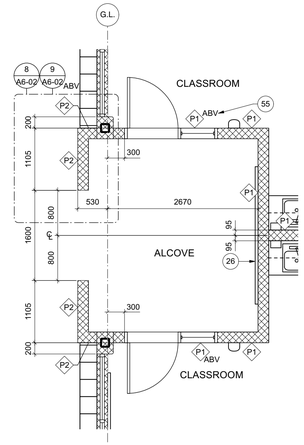
PLAN - NORTH WING - SECOND FLOOR

drawn by: **SK**
approved by: **LO**

scale: **1:100**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

A2 07



1 A2-08 TYP. CLASSROOM ALCOVE
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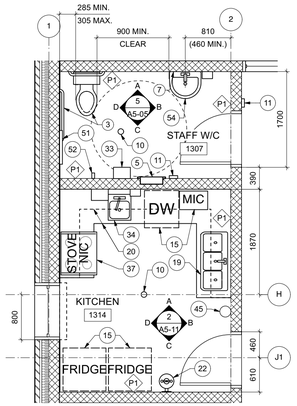

2 A2-08 CHILDCARE KITCHEN + STAFF W/C
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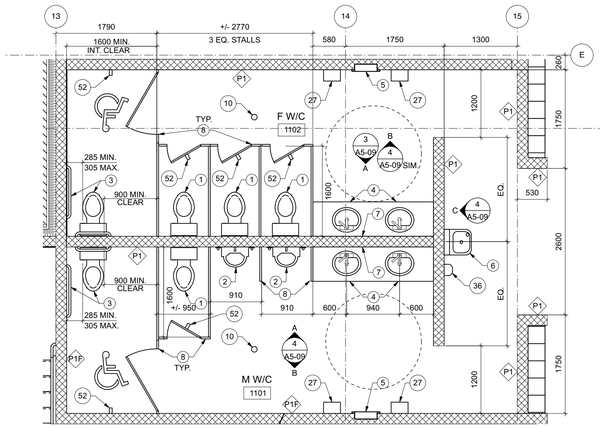

3 A2-08 LARGE MULTI-STALL W/C
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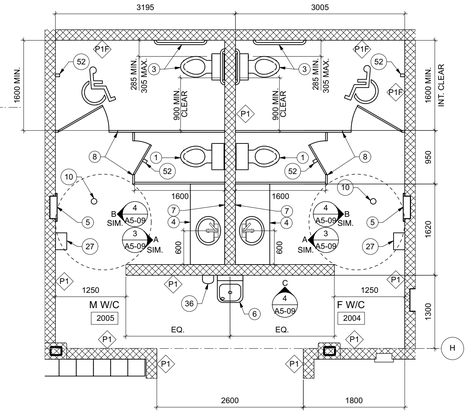

4 A2-08 SMALL MULTI-STALL W/C
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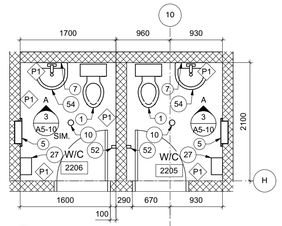

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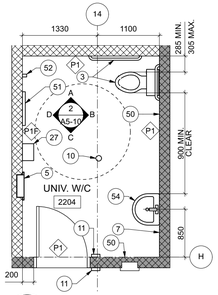

6 A2-08 UNIV. W/C
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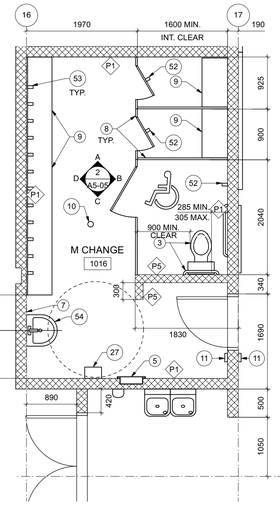

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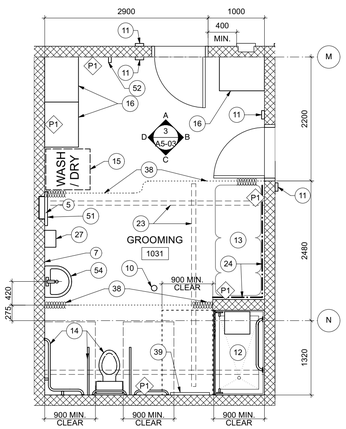

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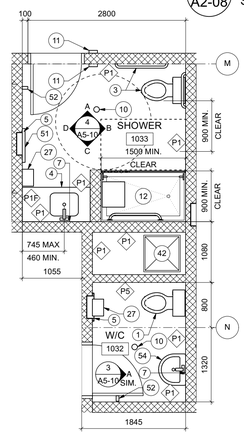
Scale: 1:50



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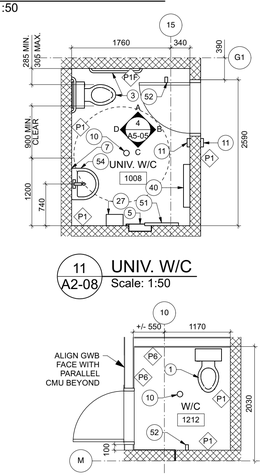

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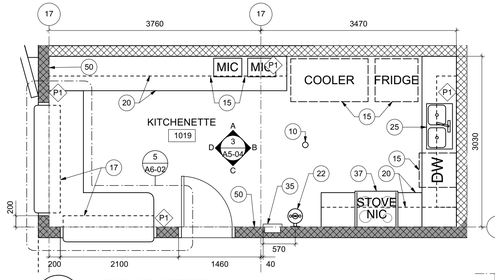
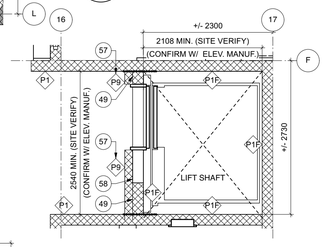
Scale: 1:50

12 A2-08 KG W/C 1212
Scale: 1:50



8 A2-08 KITCHENETTE
Scale: 1:50



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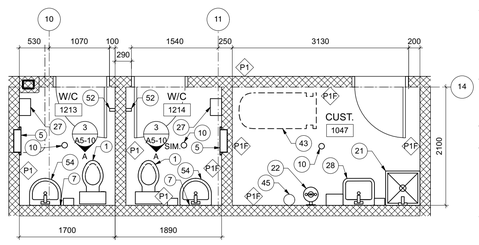

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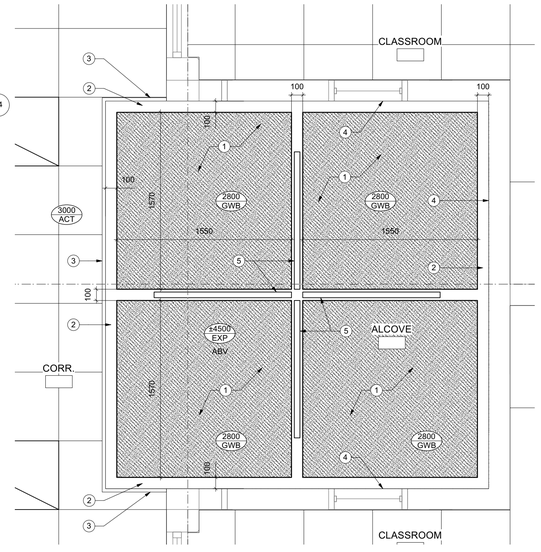
Scale: 1:50



18 A2-08 EXPANDED RCP - TYP. CLASSROOM ALCOVE
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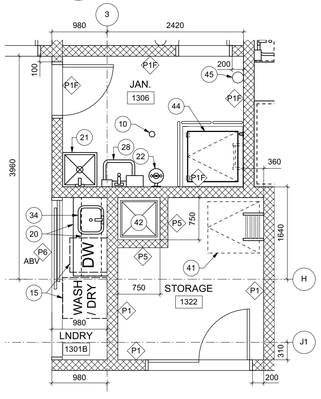
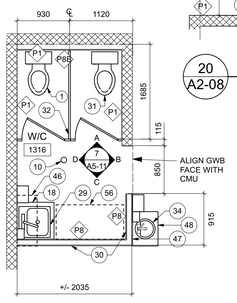
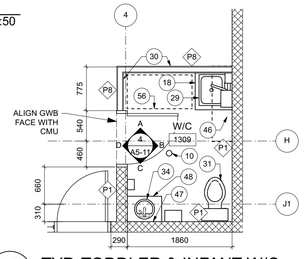


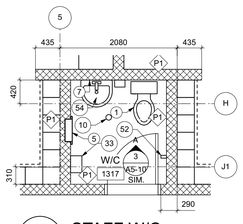
13 A2-08 JAN., STORAGE & LAUNDRY
Scale: 1:50



14 A2-08 TYP. PRESCHOOL W/C
Scale: 1:50



16 A2-08 TYP. TODDLER & INFANT W/C
Scale: 1:50



17 A2-08 STAFF W/C
Scale: 1:50

GENERAL NOTES - FLOOR PLANS:

- CONTRACTOR TO SITE VERIFY ALL DIMENSIONS AND OPENINGS. DIMENSIONS TYPICAL FROM FACE OF STUD, FACE OF CONC., OR GRID LINE.
- REFER TO INTERIOR ELEVATIONS, SPECIFICATION, & MILLWORK DETAILS FOR ALL MILLWORK. REFER TO MECH. & ELEC. FOR BUILT-IN SINKS, PLUMBING, AND POWER / DATA.
- MILLWORK HEIGHTS MAY VARY BETWEEN SPACES. IN ALL CASES, CONFIRM WITH INTERIOR ELEVATIONS & MILLWORK DETAILS.
- ENSURE SUITABLE MEANS OF ANCHORAGE OR ADEQUATE BLOCKING FOR ALL WALL & CEILING-MOUNTED EQUIPMENT, FIXTURES, AND MILLWORK.
- REFER TO DRAWINGS FOR MOUNTING HEIGHT OF EQUIPMENT, FIXTURES, AND MILLWORK. CONFIRM WITH CONSULTANT IF NOT INDICATED.
- APPLIANCES N.I.C. TYP., OWNER PROVIDED & CONTRACTOR INSTALLED.
- ROUGH-IN FOR ALL APPLIANCES AND EQUIPMENT IS IN CONTRACT UNLESS OTHERWISE INDICATED. REFER TO MECH. & ELEC.
- EXPOSED CORNERS OF WALLS SHOULD BE TREATED FOR DURABILITY. TYPICALLY BULLNOSE EXPOSED CORNERS OF CONC. BLOCK WALLS. PROVIDE STAINLESS STEEL CORNER GUARDS OR PROTECTIVE PAINT FINISH ON EXPOSED GYPSUM BOARD AROUND CORNER WHERE GWB PARTITIONS HAVE PVC WALL PROTECTION. REFER TO SPEC.
- MAINTAIN REQUIRED F.R.R. AT ALL OPENINGS IN ALL FIRE-RATED ASSEMBLIES. **REFER TO A0-02 FIRE SAFETY DIAGRAMS & SECTIONS FOR LOCATION AND EXTENT OF RATINGS.**
- PROVIDE MANUAL PULL DOWN BLINDS AT ALL EXTERIOR WINDOWS.TYP, UNLESS OTHERWISE NOTED, REFER TO INTERIOR ELEVATIONS, SPEC. & WINDOW SCHEDULES.
- REFER TO SPEC. & INTERIOR ELEVATIONS FOR LOCATIONS OF PAPER TOWEL DISP., SOAP DISP., ELECTRIC HAND DRYERS, AND OTHER WASHROOM ACCESSORIES.
- ALL PARTITIONS TO EXTEND CONTINUOUS FROM FLOOR SLAB TO U/S STRUCTURAL BEAM, PLATE OR DECK. PROVIDE FULL HEIGHT PARTITIONS AT ALL BUILDING EXTERIOR WALLS UNLESS INDICATOR ON FLOOR SECTIONS. CONFIRM WITH STRUCTURAL. ADD CONTINUOUS PERIM. SILL GASKET AND ACOUSTIC SEALANT AT BASE PLATE (TYP.) BOTH SIDES OF PARTITION.
- ALL PARTITIONS TO BE TYPE 'P1' UNLESS OTHERWISE INDICATED. ALL EXTERIOR WALLS ABOVE GRADE TO BE TYPE 'E3' UNLESS OTHERWISE INDICATED. REFER TO ELEVATION, SECTIONS, & DETAILS.
- ALL CMU PARTITIONS (INCLUDING NON-LOADBEARING) TO CONTINUE ABOVE OPENINGS INCLUDING MASONRY LINTELS AS REQUIRED BY STRUCTURAL LINTEL SIZING - UNLESS OTHERWISE INDICATED.
- DOOR ROUGH OPENINGS TO BE THE FOLLOWING DISTANCE FROM ADJ. WALL (ON HINGE SIDE) UNLESS OTHERWISE INDICATED. 200MM IN CONC. BLK. 100MM IN STL STUD. REFER TO PLANS, EXPANDED PLANS, & PLAN DETAILS.
- REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION FOR WASHROOMS. LOCATIONS & MOUNTING HEIGHTS OF WASHROOM ACCESSORIES, ETC.

KEYNOTES - EXPANDED PLANS:

1. TOILET, REFER TO MECH.
2. BARRIER-FREE URINAL C/W SIDE GRAB BARS, REFER TO MECH.
3. BARRIER-FREE TOILET C/W SIDE & REAR GRAB BARS AS PER CODE, REFER TO MECH.
4. BARRIER-FREE MILLWORK COUNTERTOP WITH BUILT-IN BARRIER-FREE SINK(S), REFER TO MECH.
5. RECESSED GARBAGE RECEPTACLE, REFER TO SPEC.
6. WALL FOUNTAIN, REFER TO MECH. & ELEC.
7. MIRROR, REFER TO SPEC. & INT. ELEVS.
8. OVERHEAD BRACED FLOOR-MOUNTED HDPE WASHROOM STALL PARTITIONS TYP., REFER TO SPEC.
9. CHANGEROOM BENCH MILLWORK
10. FLOOR DRAIN, REFER TO MECH.
11. DOOR AUTO-OPERATOR ACTUATOR BOTH SIDES OF DOOR, REFER TO ELEC. & INT. ELEVS.
12. BARRIER FREE SHOWER SURROUND C/W FLOOR DRAIN, RECESSED SOAP DISH, GRAB BARS, SWING-OUT TELESCOPING CURTAIN ROD AND FOLDING BENCH AS PER CODE. REFER TO MECH. & SPEC. INSET INTO SLAB BELOW SHOWER AS REQ'D TO ACHIEVE BARRIER-FREE THRESHOLD, REFER TO SPEC. & STRUCTURAL. CONFIRM W/ ARCHITECT.
13. ELECTRIC CHANGE TABLE, REFER TO SPEC. PROVIDE DEDICATED ELECTRICAL RECEPTACLE, REFER TO ELEC.
14. BARRIER-FREE TOILET C/W SIDE, REAR, AND FOLD DOWN GRAB BARS AS PER CODE, REFER TO MECH.
15. APPLIANCES, N.I.C. TYP. OWNER PROVIDED, CONTRACTOR INSTALLED.
16. STORAGE CABINET MILLWORK
17. KITCHENETTE SERVERY W/ OVERHEAD COILING COUNTER SHUTTER. MILLWORK COUNTERTOP TO EXTEND OUT THROUGH SERVERY OPENING. REFER TO MILLWORK DETAILS & SPEC.
18. LOWER MILLWORK W/ COUNTERTOP
19. TRIPLE COMPARTMENT SINK BUILT-IN TO MILLWORK COUNTER, REFER TO MECH.
20. UPPER & LOWER MILLWORK W/ COUNTERTOP
21. MOP SINK, REFER TO MECH.
22. WALL-MOUNTED EMERGENCY EYE-WASH STATION, REFER TO MECH.
23. WALL-MOUNTED ELECTRIC CEILING LIFT W/ H-TRACK ABOVE, REFER TO SPEC. PROVIDE DEDICATED ELEC. RECEPTACLE IN CEILING AT DESIGNATED CHARGING / DOCKING LOCATION. REFER TO ELEC.
24. WALL PADDING, REFER TO INT. ELEVS.
25. TWO-COMPARTMENT COUNTERTOP KITCHEN SINK, REFER TO MECH.
26. MAGNETIC WHITEBOARD, REFER TO SPEC.
27. ELECTRIC HAND-DRYER, REFER TO ELEC.
28. WALL SINK, REFER TO MECH.
29. LARGE SINGLE-COMPARTMENT COUNTERTOP WASH SINK FOR POTENTIAL BATHING USE. REFER TO MECH. ORIENT TOWARDS SIDE W/ CHANGE TABLE.
30. PARTIAL HEIGHT WALL, REFER TO INT. ELEVS & SECTIONS. PROVIDE CAP, REFER TO MILLWORK DETAILS.
31. CHILD-SIZED TOILET, REFER TO MECH.
32. PARTIAL HEIGHT FLOOR-MOUNTED WASHROOM STALL PARTITIONS TYP., REFER TO INT. ELEVS & SPEC.
33. WALL-MOUNTED PAPER TOWEL DISPENSER, N.I.C. BY OWNER, CONTRACTOR INSTALLED.
34. SINGLE-COMPARTMENT COUNTERTOP HAND-WASHING SINK, REFER TO MECH.
35. RECESSED WALL-MOUNTED FIRE EXT. CABINET, REFER TO PLAN DETAILS & SPEC.
36. HAND-SANITIZER DISPENSER, REFER TO SPEC.
37. STOVE (N.I.C.) WITH RANGEHOOD, REFER TO MECH. & ELEC.
38. CEILING SURFACE MOUNTED CURTAIN & TRACK, REFER TO SPEC.
39. FULL-HEIGHT MIRROR, REFER TO SPEC.
40. FOLDING WALL-MOUNTED BABY CHANGE TABLE, REFER TO SPEC.
41. LOCKABLE ROOF HATCH ABOVE W/ STEEL ACCESS LADDER, REFER TO SPEC. & DETAILS
42. MECH. DUCT FROM CRAWLSPACE TO ROOF, REFER TO MECH.
43. ELEC. FLOOR MACHINE PARKING SPOT, FLOOR MACHINE N.I.C.
44. LOCKABLE FLOOR HATCH W/ STEEL ACCESS LADDER BELOW. PROVIDE SAFETY RAIL ON 2 SIDES W/ GATE & WALL-MOUNTED GRAB BAR, SEE SPEC. & DETAILS.
45. WALL-MOUNTED FIRE EXT., REFER TO SPEC.
46. UPPER MILLWORK
47. MIRROR, REFER TO INT. ELEVS. & SPEC.
48. LOWER MILLWORK
49. LEAVE OFF ENTIRE FRONT WALL AT ALL FLOORS WHERE ELEVATOR ENTRANCE IS INCLUDED, REFER TO SPEC. & MANUF. INFILL WALL AFTER ELEVATOR INSTALLATION. REFER TO STRUCT.
50. ALTERNATE PRICE: REPLACE CONC. BLK W/ TERRAZO CONC. BLK. AT ONLY THE LOCATIONS INDICATED, TO THE EXTENT SHOWN DARKER. MAINTAIN REQUIRED FIRE RATINGS. COORD. W/ STRUCTURAL, REFER TO SPEC.
51. FOLDING SHELF, REFER TO SPEC.
52. COAT HOOK, REFER TO SPEC.
53. 12 COAT HOOKS ON WOOD BACKERBOARD, PT-1
54. WALL-MOUNTED BARRIER-FREE SINK(S), REFER TO MECH.
55. CMU PARTITION TO MATCH ADJACENT WALL ASSEMBLY C/W MASONRY LINTEL TO CONTINUE ABOVE ALL OPENINGS TO U/S OF STRUCTURE - TYP. UNLESS OTHERWISE INDICATED
56. CHILDCARE CHANGE TABLE. N.I.C., BY OWNER
57. AT SECOND FLOOR ONLY - P9 ASSEMBLY IN FRONT OF P1F ASSEMBLY INCLUDING UP AND OVER OPENING
58. ELEVATOR CONTROLLER PANEL

KEYNOTES - EXPANDED RCP:

1. SUSPENDED GWB CEILING, OPEN ABOVE. REFER TO INT. ELEVS & SECTIONS. 21 / A4-10.
2. OPEN GAP BETWEEN SUSPENDED GWB CEILING SQUARE AND CORRIDOR CEILING. ALSO GAP BETWEEN ALL SUSPENDED GWB CEILING SQUARES AND BETWEEN SQUARES AND ALCOVE WALLS. EXPOSED CEILING STRUCTURE ABOVE. EXPOSED STRUCTURE, MECHANICAL AND ELECTRICAL COMPONENTS ARE TO BE PAINTED BLACK A MINIMUM 1500MM ON EITHER SIDE OF OPENING
3. 152 TALL PREFIN. TRIM AROUND EDGE OF ACOUSTIC CEILING TILE GAP. REFER TO SPEC. & SECTIONS. 21 / A4-10.
4. CONTINUE WALL PAINT ABOVE SUSPENDED CEILING.
5. SUSPENDED LED FIXTURE. SUSPEND IN CROSS-SHAPE BETWEEN SUSPENDED GWB CEILING SQUARES. REFER TO ELEC., INT. ELEVS & SECTIONS.

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issue / rev.

#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

PROVINCE OF MANITOBA — LINDSAY OSTER — 2023-03-24 — REGISTERED ARCHITECT

PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. No. 026 — APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

drawing information

EXPANDED PLANS

drawn by: **SK**
approved by: **LO**

scale: **1:100**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

A2 08

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

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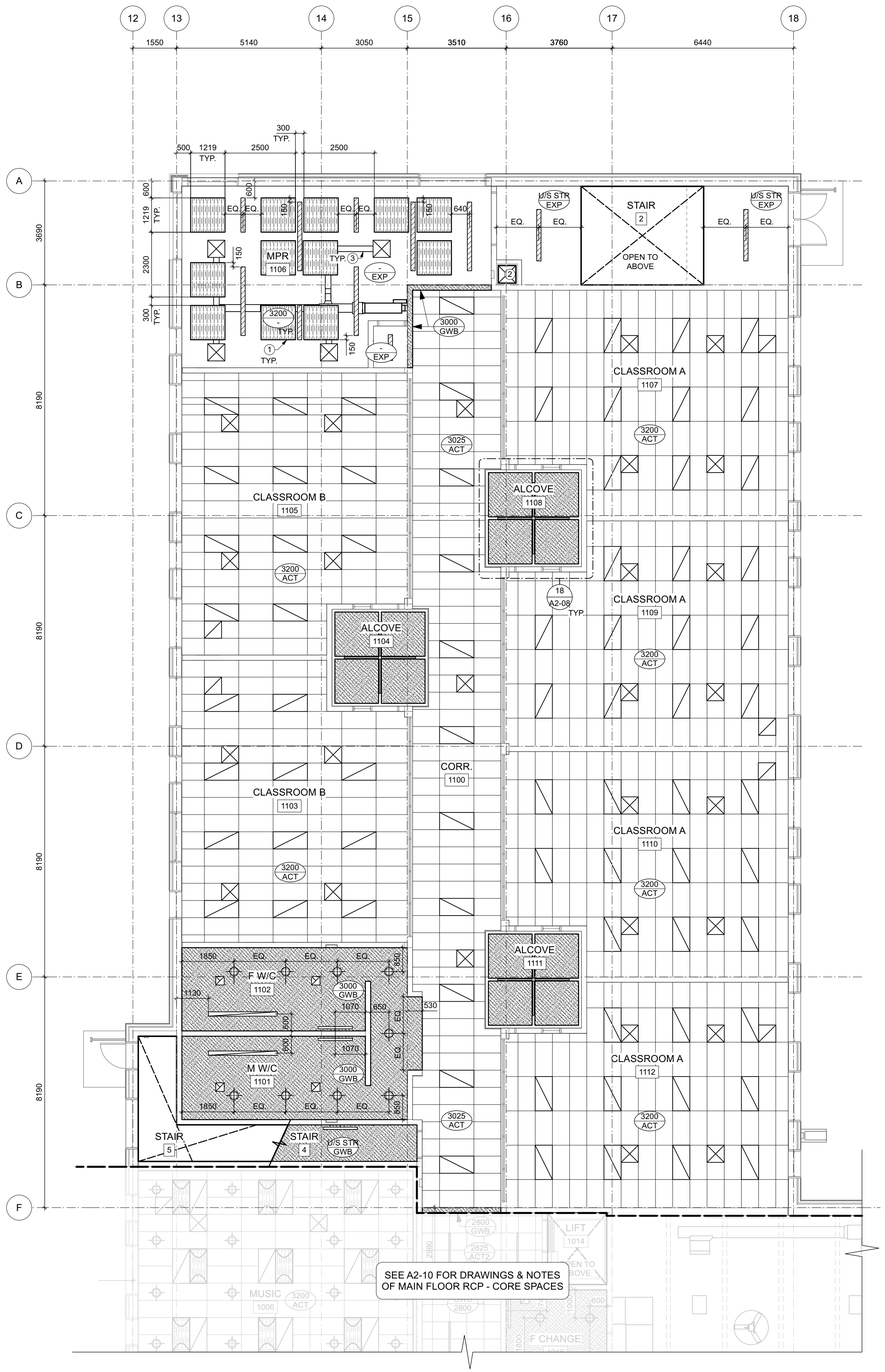

1 A2-09 MAIN FLOOR RCP - EAST WING
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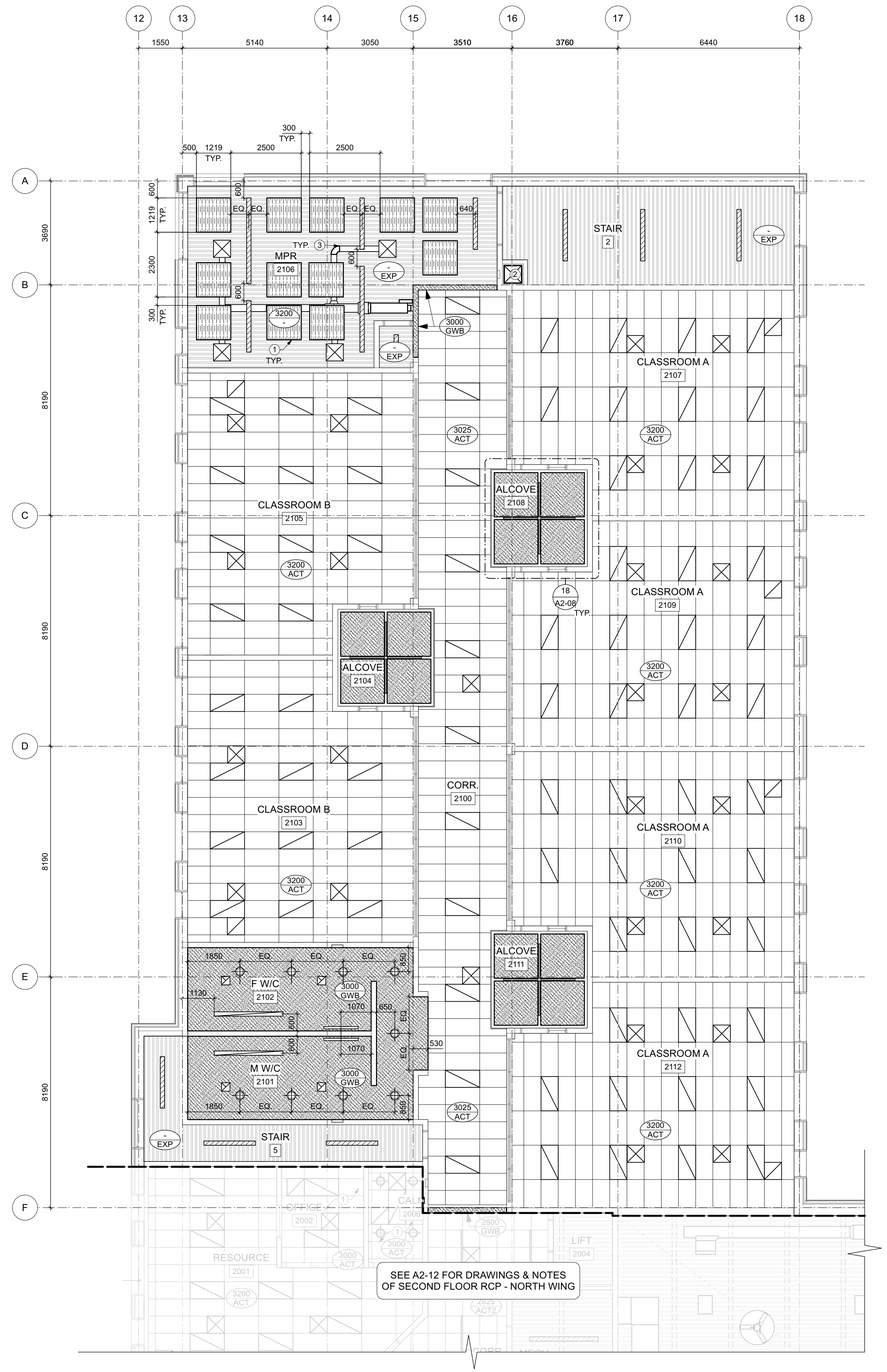

2 A2-09 SECOND FLOOR RCP - EAST WING
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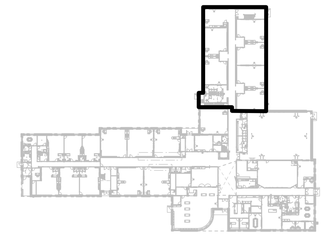

- A2-09 KEY PLAN
Scale: 1:1000

GENERAL NOTES - RCP

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- DIMENSIONS TYPICAL FROM FACE OF STUD, FACE OF CONC., OR GRID LINE.
- ENSURE SUITABLE MEANS OF ANCHORAGE OR ADEQUATE BLOCKING FOR ALL WALL & CEILING-MOUNTED EQUIPMENT, FIXTURES, AND MILLWORK.
- REFER TO SPEC. & ELEC. FOR HEIGHT TO U/S OF ALL SUSPENDED OR CEILING MOUNTED FIXTURES A.F.F. COORD. & CONFIRM W/ ARCH. DRAWINGS
- APPLIANCES N.I.C. TYP., OWNER PROVIDED & CONTRACTOR INSTALLED.
- ROUGH-IN FOR ALL APPLIANCES AND EQUIPMENT IS IN CONTRACT UNLESS OTHERWISE INDICATED. REFER TO MECH. & ELEC.
- MAINTAIN REQUIRED F.R.R. AT ALL OPENINGS IN ALL FIRE-RATED ASSEMBLIES. **REFER TO 1 / A0-02 & SECTIONS FOR LOCATION AND EXTENT OF RATINGS.**
- ALL PARTITIONS TO EXTEND FROM FLOOR SLAB TO U/S STRUCTURAL FLOOR OR ROOF DECK ABOVE (UNLESS OTHERWISE INDICATED). REFER TO SECTIONS & STRUCT.
- COORDINATE STRUCTURAL JOIST SPACING TO AVOID ALIGNMENT WITH PARALLEL PARTITIONS BELOW. REFER TO & COORDINATE WITH STRUCTURAL.
- UNLESS OTHERWISE INDICATED, RETURN GWB CEILING AS GWB FACE OF BULKHEAD TO 100MM MIN. ABOVE ANY ADJACENT CEILINGS WHICH ARE HIGHER.
- UNLESS OTHERWISE INDICATED, PROVIDE TRIM ALONG OPEN EDGES OF ACOUSTIC CEILING TILE CEILINGS. REFER TO SPEC.

RCP - SYMBOL LEGEND:

- REFER TO ELEC. FOR ALL FIXTURE TYPES
- REFER TO INT. ELEVS FOR MOUNTING HEIGHT OF ALL SUSP. FIXTURES, DIFFUSERS, BAFFLES.

SURFACE MOUNTED LIGHT FIXTURE
RECESSED LIGHT FIXTURE
RECESSED DOWNLIGHT FIXTURE
CEILING ACOUSTIC DIFFUSERS / PANELS, REFER TO SPEC.
WALL-MOUNTED LIGHT FIXTURE
SUSPENDED LIGHT FIXTURE (REFER TO INT. ELEVS & ELEC. FOR MOUNTING HEIGHTS)
CEILING FAN W/ CAGE, REFER TO MECH.
SUPPLY DIFFUSER, REFER TO MECH.
RETURN GRILLE, REFER TO MECH.
EXHAUST GRILLE, REFER TO MECH.
RADIANT HEATING PANEL, REFER TO ELEC.

KEYNOTES - RCP - EAST WING:

1. SUSPENDED ACOUSTIC PANEL, REFER TO SPEC.
2. MECH. DUCT FROM CRAWLSPACE TO ROOF. REFER TO MECH. COORD. LOC'N W/ MECH. & STRUCT. PROVIDE FIRE DAMPER AND FIRE-STOPPING SYSTEM AT SECOND FLOOR PENETRATION TO MAINTAIN CONTINUOUS REQ. FIRE SEP. BTWN FLOORS. REFER TO FIRE SAFETY DIAGRAMS, SECTIONS, AND SPEC.
3. EXPOSED MECH. DUCTWORK IS SHOWN SELECTIVELY AND IS ILLUSTRATIVE - FOR COORDINATION PURPOSES ONLY. REFER TO MECH. FOR ALL HVAC EQPT AND RUNS.

CONSTRUCTION NORTH
TRUE NORTH

This drawing must not be scaled. The contractor shall verify all dimensions and other data on site prior to commencement of work. All discrepancies, errors, and omissions are to be reported to the architect. Drawing and specifications, as instruments of service, are the property of the architect, the copyright in the same being reserved to him. No reproduction may be made without the permission of the architect, and when made, must bear his name. All prints to be returned to the architect on request.

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issue / rev.

#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

PROVINCE OF MANITOBA — LINDSAY OSTER 2023-03-24 — REGISTERED ARCHITECT

PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. No. 028 — APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

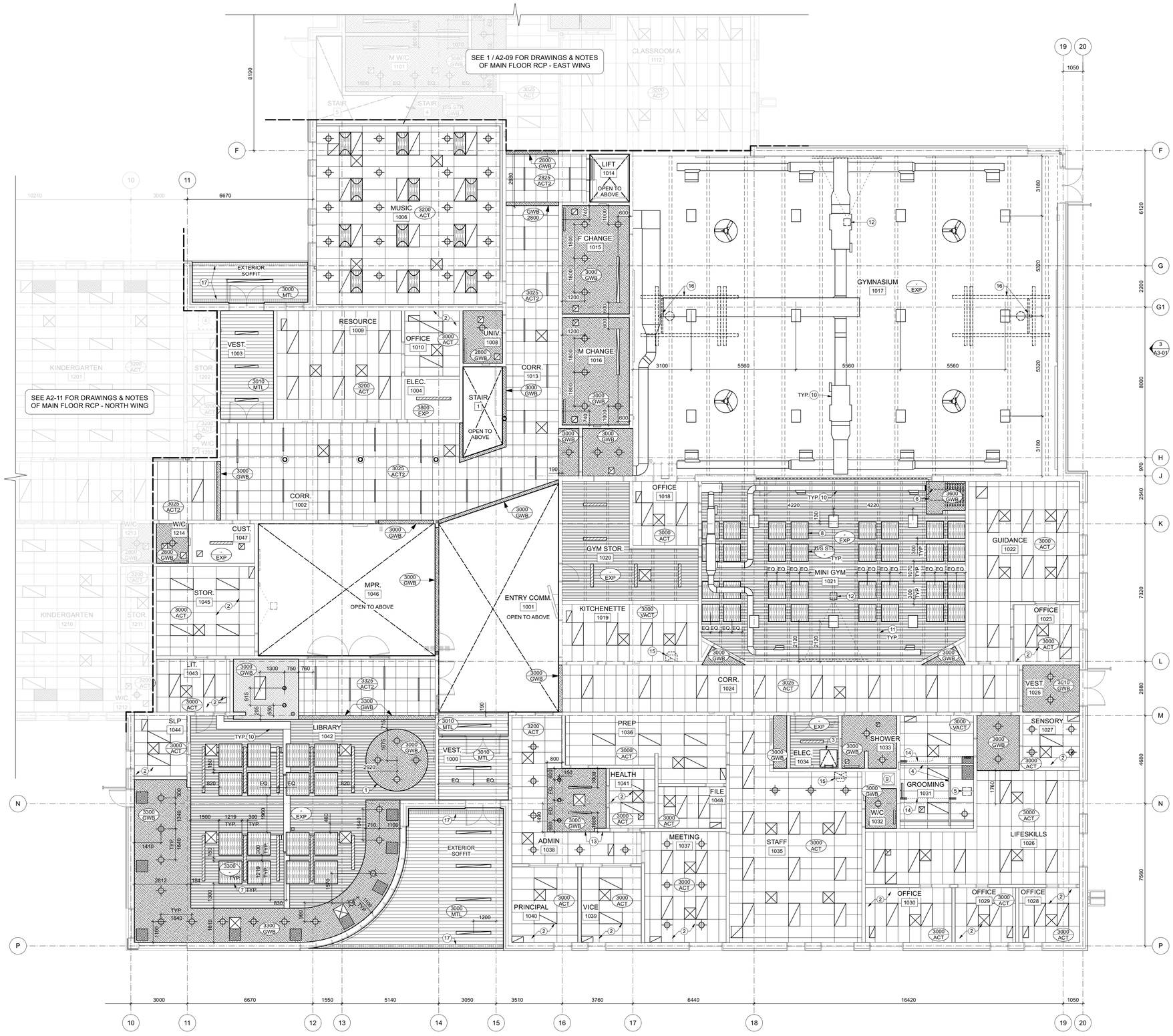
drawing information

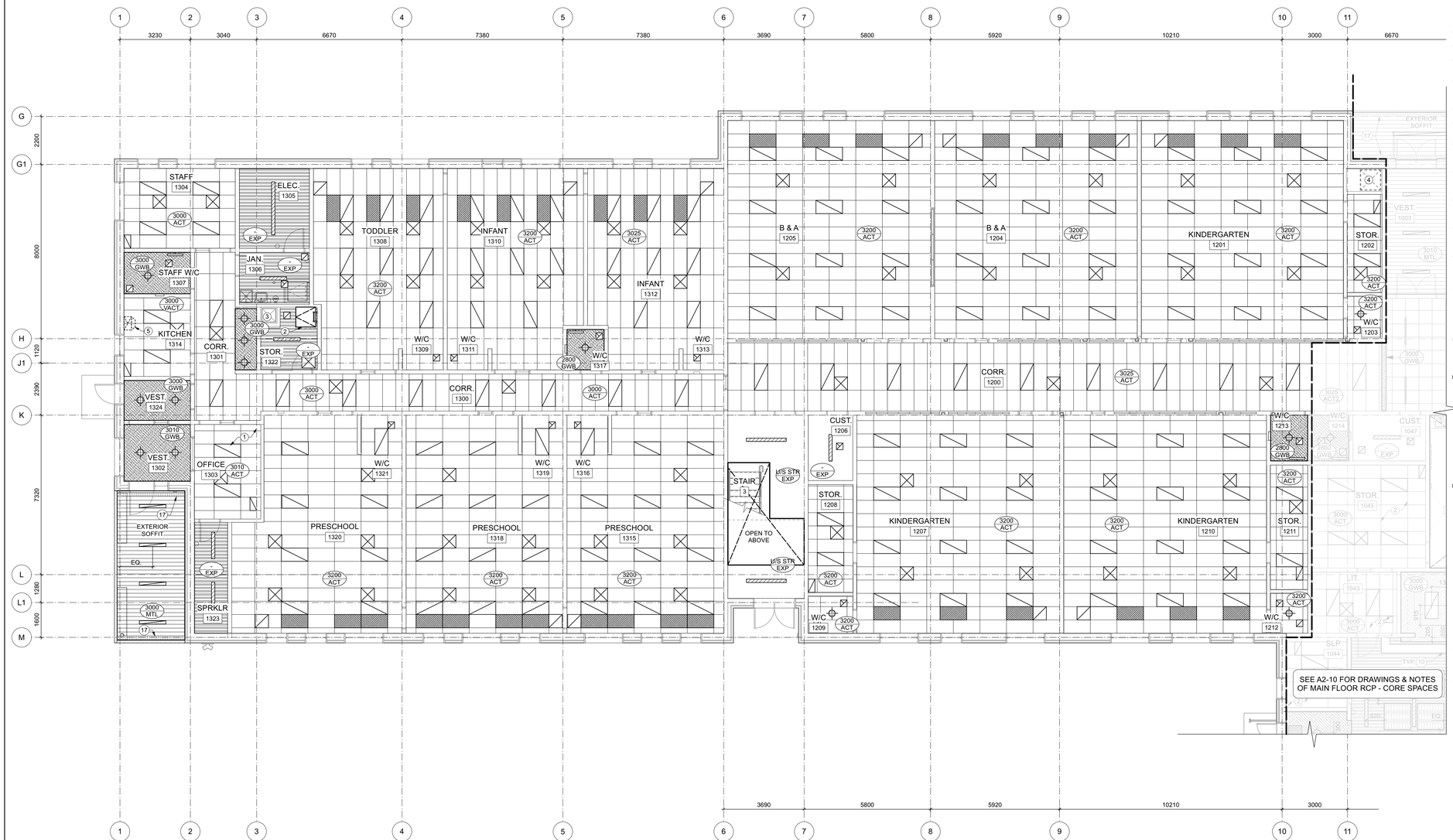
RCP - EAST WING - MAIN & SECOND

drawn by: **SK**
approved by: **LO**

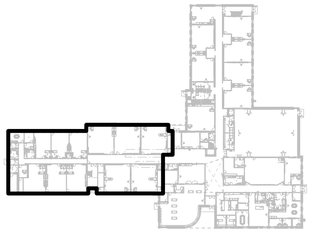
scale: **1:100**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

A2 09


SEE 1 / A2-09 FOR DRAWINGS & NOTES OF MAIN FLOOR RCP - EAST WING
SEE A2-11 FOR DRAWINGS & NOTES OF MAIN FLOOR RCP - NORTH WING
MUSIC 1006
RESOURCE 1009
OFFICE 1010
UNIV. 1008
VEST. 1003
ELEC. 1004
STAIR 1
OPEN TO ABOVE
CORR. 1013
CORR. 1002
EXTERIOR SOFFIT
W/C 1214
CUST. 1047
STOR. 1045
MPR. 1046
OPEN TO ABOVE
LIT. 1043
SLP 1044
LIBRARY 1042
VEST. 1000
EXTERIOR SOFFIT
LIFT 1014
OPEN TO ABOVE
F CHANGE 1015
M CHANGE 1016
GYMNASIUM 1017
OFFICE 1018
GYM STOR. 1020
KITCHENETTE 1019
ENTRY COMM. 1001
OPEN TO ABOVE
MINI GYM 1021
GUIDANCE 1022
OFFICE 1023
CORR. 1024
VEST. 1025
PREP 1036
HEALTH 1041
FILE 1048
ADMIN. 1038
MEETING 1037
PRINCIPAL 1040
VICE 1039
ELEC. 1034
SHOWER 1033
GROOMING 1031
W/C 1032
STAFF 1035
SENSORY 1027
LIFESKILLS 1026
OFFICE 1030
OFFICE 1029
OFFICE 1028
CLASSROOM A 1112
KINDERGARTEN 1201
KINDERGARTEN 1210
STOR. 1202
STOR. 1211
W/C 1213
W/C 1212
W/C 1210
STAIR 5
STAIR 4
M W/C 1101
3000 3000 3000



1 A2-11 MAIN FLOOR RCP - NORTH WING
Scale: 1:100



- A2-11 KEY PLAN
Scale: 1:1000

GENERAL NOTES - RCP

- CONTRACTOR TO SITE VERIFY ALL DIMENSIONS AND OPENINGS.
- DIMENSIONS TYPICAL FROM FACE OF STUD, FACE OF CONC., OR GRID LINE.
- ENSURE SUITABLE MEANS OF ANCHORAGE OR ADEQUATE BLOCKING FOR ALL WALL & CEILING-MOUNTED EQUIPMENT, FIXTURES, AND MILLWORK.
- REFER TO SPEC. & ELEC. FOR HEIGHT TO U/S OF ALL SUSPENDED OR CEILING MOUNTED FIXTURES A.F.F. COORD. & CONFIRM W/ ARCH. DRAWINGS
- APPLIANCES N.I.C. TYP., OWNER PROVIDED & CONTRACTOR INSTALLED.
- ROUGH-IN FOR ALL APPLIANCES AND EQUIPMENT IS IN CONTRACT UNLESS OTHERWISE INDICATED. REFER TO MECH. & ELEC.
- MAINTAIN REQUIRED F.R.R. AT ALL OPENINGS IN ALL FIRE-RATED ASSEMBLIES. **REFER TO 1 / A0-02 & SECTIONS FOR LOCATION AND EXTENT OF RATINGS.**
- ALL PARTITIONS TO EXTEND FROM FLOOR SLAB TO U/S STRUCTURAL FLOOR OR ROOF DECK ABOVE (UNLESS OTHERWISE INDICATED). REFER TO SECTIONS & STRUCT.
- COORDINATE STRUCTURAL JOIST SPACING TO AVOID ALIGNMENT WITH PARALLEL PARTITIONS BELOW. REFER TO & COORDINATE WITH STRUCTURAL.
- UNLESS OTHERWISE INDICATED, RETURN GWB CEILING AS GWB FACE OF BULKHEAD TO 100MM MIN. ABOVE ANY ADJACENT CEILINGS WHICH ARE HIGHER.
- UNLESS OTHERWISE INDICATED, PROVIDE TRIM ALONG OPEN EDGES OF ACOUSTIC CEILING TILE CEILINGS. REFER TO SPEC.

RCP - SYMBOL LEGEND:

- REFER TO ELEC. FOR ALL FIXTURE TYPES
- REFER TO INT. ELEVS FOR MOUNTING HEIGHT OF ALL SUSP. FIXTURES, DIFFUSERS, BAFFLES.

- SURFACE MOUNTED LIGHT FIXTURE
- RECESSED LIGHT FIXTURE
- RECESSED DOWNLIGHT FIXTURE
- CEILING ACOUSTIC DIFFUSERS / PANELS, REFER TO SPEC.
- WALL-MOUNTED LIGHT FIXTURE
- SUSPENDED LIGHT FIXTURE (REFER TO INT. ELEVS & ELEC. FOR MOUNTING HEIGHTS)
- CEILING FAN W/ CAGE, REFER TO MECH.
- SUPPLY DIFFUSER, REFER TO MECH.
- RETURN GRILLE, REFER TO MECH.
- EXHAUST GRILLE, REFER TO MECH.
- RADIANT HEATING PANEL, REFER TO ELEC.

KEYNOTES - RCP - NORTH WING - MAIN FLOOR:

1. LAY ACOUSTIC BATT INSULATION ABOVE ACT CEILING TO INCREASE SOUND ABSORPTION AND PRIVACY.
2. LOCKABLE ROOF HATCH ABOVE W/ LADDER, REFER TO SPEC.
3. MECH. DUCT FROM CRAWLSPACE TO ROOF, REFER TO MECH.
4. MECH. DUCT FROM CRAWLSPACE TO ROOF, REFER TO MECH. PROVIDE FIRE DAMPER AND FIRE-STOPPING SYSTEM AT SECOND FLOOR PENETRATION TO MAINTAIN CONTINUOUS REQ. FIRE SEP. BTWN FLOORS. REFER TO FIRE SAFETY DIAGRAMS, SECTIONS, AND SPEC.
5. EXTERNALLY VENTED EXHAUST HOOD BELOW, REFER TO MECH. COORDINATE LOCATION WITH EQUIPMENT.

CONSTRUCTION NORTH
TRUE NORTH

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issue / rev.

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professional seals

PROVINCE OF MANITOBA — LINDSAY OSTER — 2023-03-24 — REGISTERED ARCHITECT

PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. — No. 026 — APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

drawing information

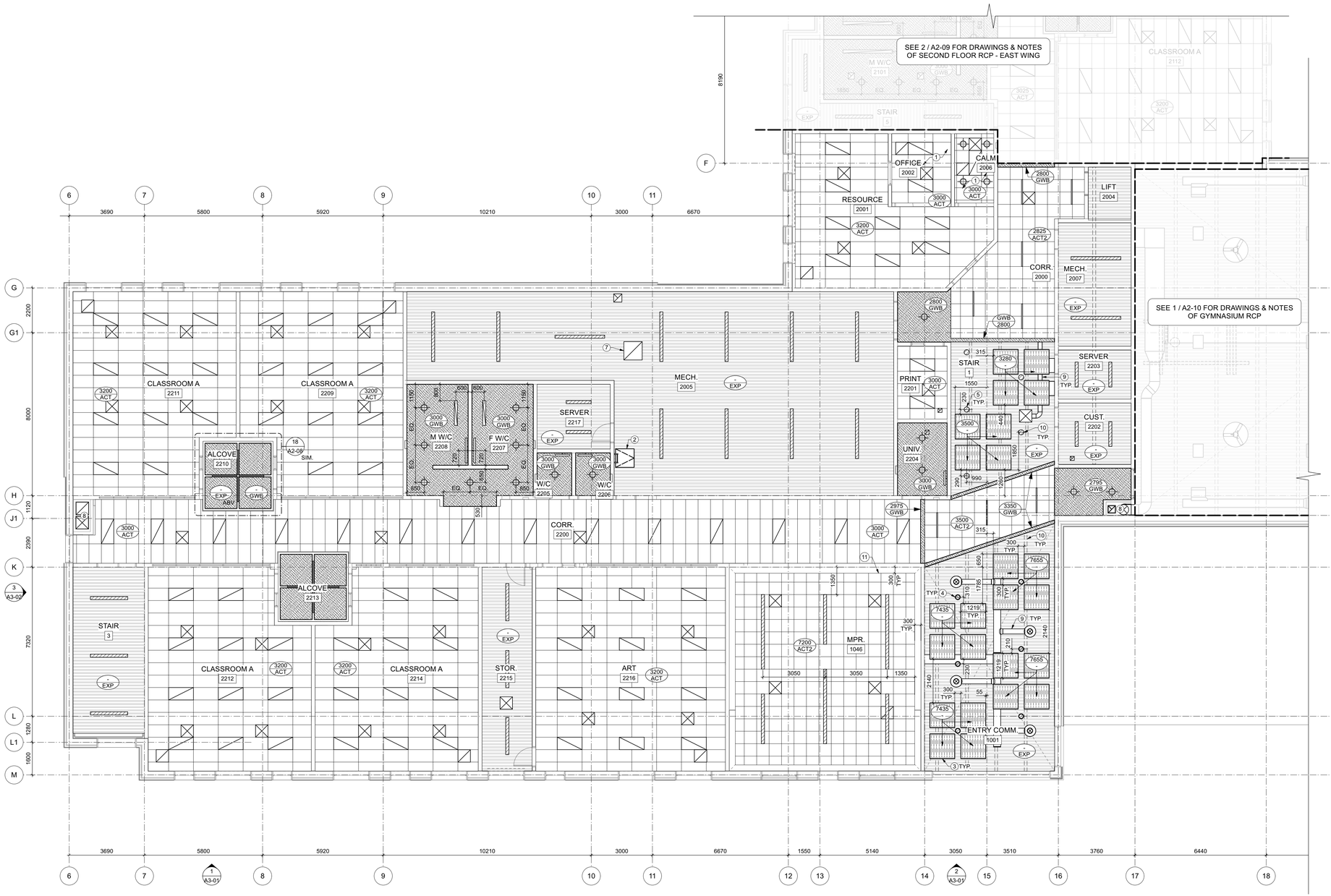
RCP - NORTH WING - MAIN FLOOR

drawn by: **SK**
approved by: **LO**

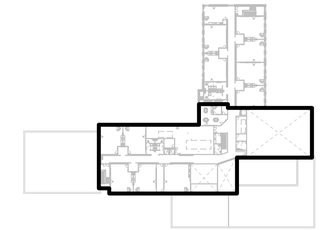
scale: **1:100**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

A2 11



1 A2-12 SEC OND FLOOR RCP - NORTH WING
Scale: 1:100



- A2-12 KEY PLAN
Scale: 1:1000

GENERAL NOTES - RCP

- CONTRACTOR TO SITE VERIFY ALL DIMENSIONS AND OPENINGS.
- DIMENSIONS TYPICAL FROM FACE OF STUD, FACE OF CONC., OR GRID LINE.
- ENSURE SUITABLE MEANS OF ANCHORAGE OR ADEQUATE BLOCKING FOR ALL WALL & CEILING-MOUNTED EQUIPMENT, FIXTURES, AND MILLWORK.
- REFER TO SPEC. & ELEC. FOR HEIGHT TO U/S OF ALL SUSPENDED OR CEILING MOUNTED FIXTURES A.F.F. COORD. & CONFIRM W/ ARCH. DRAWINGS
- APPLIANCES N.I.C. TYP., OWNER PROVIDED & CONTRACTOR INSTALLED.
- ROUGH-IN FOR ALL APPLIANCES AND EQUIPMENT IS IN CONTRACT UNLESS OTHERWISE INDICATED. REFER TO MECH. & ELEC.
- MAINTAIN REQUIRED F.R.R. AT ALL OPENINGS IN ALL FIRE-RATED ASSEMBLIES. **REFER TO 1 / A0-02 & SECTIONS FOR LOCATION AND EXTENT OF RATINGS.**
- ALL PARTITIONS TO EXTEND FROM FLOOR SLAB TO U/S STRUCTURAL FLOOR OR ROOF DECK ABOVE (UNLESS OTHERWISE INDICATED). REFER TO SECTIONS & STRUCT.
- COORDINATE STRUCTURAL JOIST SPACING TO AVOID ALIGNMENT WITH PARALLEL PARTITIONS BELOW. REFER TO & COORDINATE WITH STRUCTURAL.
- UNLESS OTHERWISE INDICATED, RETURN GWB CEILING AS GWB FACE OF BULKHEAD TO 100MM MIN. ABOVE ANY ADJACENT CEILINGS WHICH ARE HIGHER.
- UNLESS OTHERWISE INDICATED, PROVIDE TRIM ALONG OPEN EDGES OF ACOUSTIC CEILING TILE CEILINGS. REFER TO SPEC.

RCP - SYMBOL LEGEND:

- REFER TO ELEC. FOR ALL FIXTURE TYPES
- REFER TO INT. ELEVS FOR MOUNTING HEIGHT OF ALL SUSP. FIXTURES, DIFFUSERS, BAFFLES.

SURFACE MOUNTED LIGHT FIXTURE
RECESSED LIGHT FIXTURE
RECESSED DOWNLIGHT FIXTURE
CEILING ACOUSTIC DIFFUSERS / PANELS, REFER TO SPEC.
WALL-MOUNTED LIGHT FIXTURE
SUSPENDED LIGHT FIXTURE (REFER TO INT. ELEVS & ELEC. FOR MOUNTING HEIGHTS)
CEILING FAN W/ CAGE, REFER TO MECH.
SUPPLY DIFFUSER, REFER TO MECH.
RETURN GRILLE, REFER TO MECH.
EXHAUST GRILLE, REFER TO MECH.
RADIANT HEATING PANEL, REFER TO ELEC.

KEYNOTES - RCP - NORTH WING - SECOND FLOOR:

1. LAY ACOUSTIC BATT INSULATION ABOVE ACT CEILING TO INCREASE SOUND ABSORPTION AND PRIVACY.
2. LOCKABLE ROOF HATCH ABOVE W/ LADDER. REFER TO SPEC.
3. SUSPENDED ACOUSTIC PANEL, REFER TO SPEC.
4. FEATURE SUSPENDED PENDANT LIGHT TYPE 1, REFER TO ELEC.
5. FEATURE SUSPENDED PENDANT LIGHT TYPE 2, REFER TO ELEC.
6. N/A
7. MECH. DUCT FROM CRAWLSPACE TO ROOF. REFER TO MECH. COORD. LOCN W/ MECH. & STRUCT. PROVIDE FIRE DAMPER AND FIRE-STOPPING SYSTEM AT SECOND FLOOR PENETRATION TO MAINTAIN CONTINUOUS REQ. FIRE SEP. BTWN FLOORS. REFER TO FIRE SAFETY DIAGRAMS, SECTIONS, AND SPEC.
8. MECH. DUCT FROM MAIN TO SECOND FLOOR. REFER TO MECH. PROVIDE FIRE DAMPER AND FIRE-STOPPING SYSTEM AT SECOND FLOOR PENETRATION TO MAINTAIN CONTINUOUS REQ. FIRE SEP. BTWN FLOORS. REFER TO FIRE SAFETY DIAGRAMS, SECTIONS, AND SPEC.
9. EXPOSED MECH. DUCTWORK IS ILLUSTRATIVE AND SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO MECH. FOR ALL HVAC EQPT AND RUNS.
10. EXPOSED STRUCTURE IS ILLUSTRATIVE AND SHOWN FOR COORDINATION PURPOSES ONLY. REFER TO STRUCT.
11. 50 TALL PREFIN. TRIM AROUND EDGE OF ACOUSTIC CEILING TILE GAP. REFER TO SPEC. & SECTION 21/A4-10 FOR SIMILAR DETAIL. EXPOSED STRUCTURE AND MECHANICAL / ELECTRICAL COMPONENTS ABOVE GAP TO BE PAINTED BLACK.

CONSTRUCTION NORTH
TRUE NORTH

This drawing must not be scaled. The contractor shall verify all dimensions and other data on site prior to commencement of work. All discrepancies, errors, and omissions are to be reported to the architect. Drawing and specifications, as instruments of service, are the property of the architect, the copyright in the same being reserved to him. No reproduction may be made without the permission of the architect, and when made, must bear his name. All prints to be returned to the architect on request.

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1	2023.03.24	ISSUED FOR CONSTRUCTION

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PROVINCE OF MANITOBA — LINDSAY OSTER — 2023-03-24 — REGISTERED ARCHITECT

PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. — No. 025 — APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

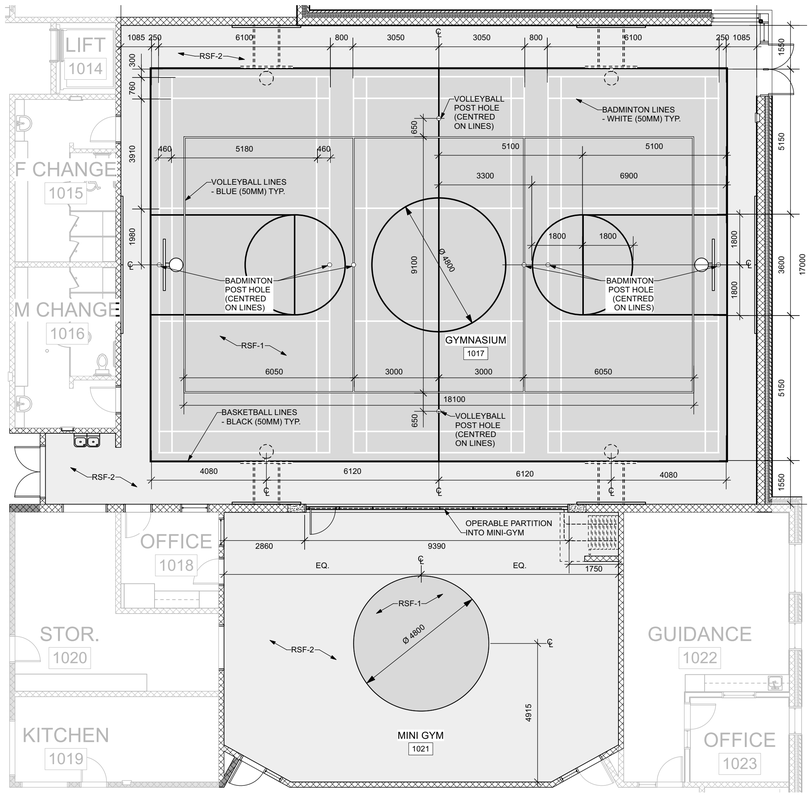
drawing information

RCP - NORTH WING - SECOND FLOOR

drawn by: **SK**
approved by: **LO**

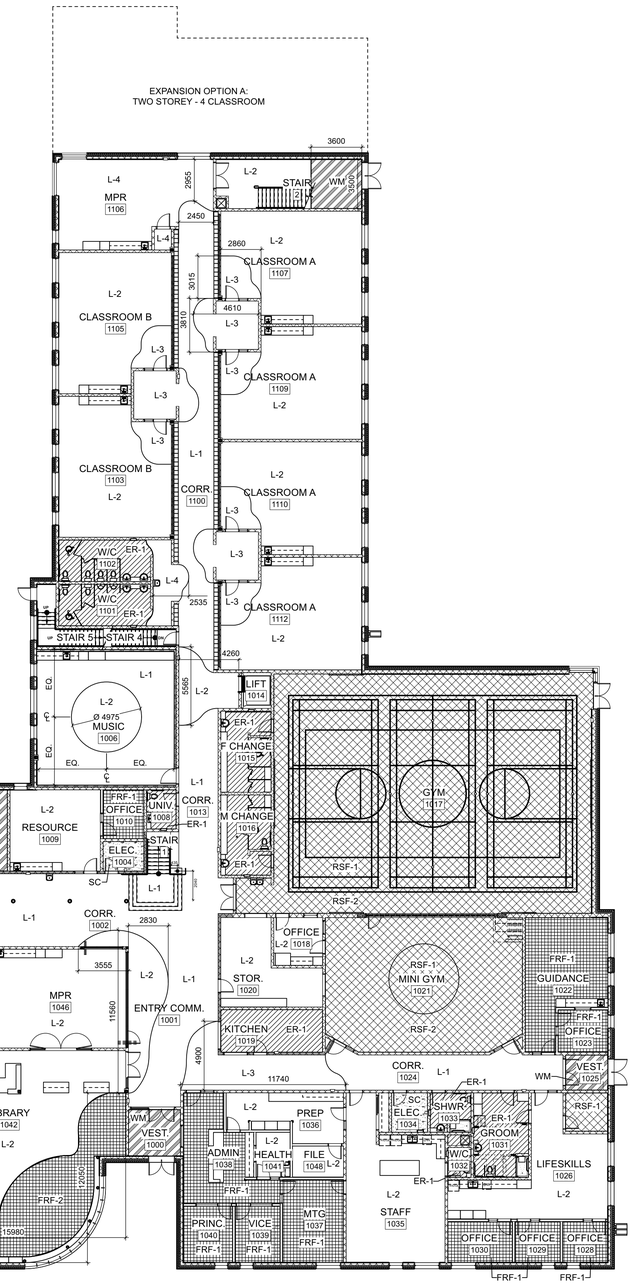
scale: **1:100**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

A2 12



2 A2-13 MAIN FLOOR - GYM FINISHES & LINE PAINTING
Scale: 1:100

NOTE: DIMENSIONS TO EDGE OF LINE PAINTING UNLESS INDICATED AS CENTRED.



1 A2-13 MAIN FLOOR - FLOOR FINISHES PLAN
Scale: 1:200

FLOOR FINISH LEGEND:

- LINOLEUM
- EPOXY RESIN
- SEALED CONCRETE
- FLOCKED RESILIENT FLOORING
- RESILIENT ATHLETIC FLOORING
- WALK-OFF MAT

NOTES:
1) REFER TO PROJECT MANUAL FOR ROOM FINISH SCHEDULE & PRODUCT SPECIFICATIONS
2) ARCHITECT TO PROVIDE CAD FILE OF FLOORING PATTERN

CONSTRUCTION NORTH

TRUE NORTH

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issue / rev.

#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

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PROVINCE OF MANITOBA — LINDSAY OSTER — 2023-03-24 — REGISTERED ARCHITECT

PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. No. 026 — APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

drawing information

FINISHES - FLOOR - MAIN FLOOR

drawn by: **KB**
approved by: **LO**

scale: **1:100**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

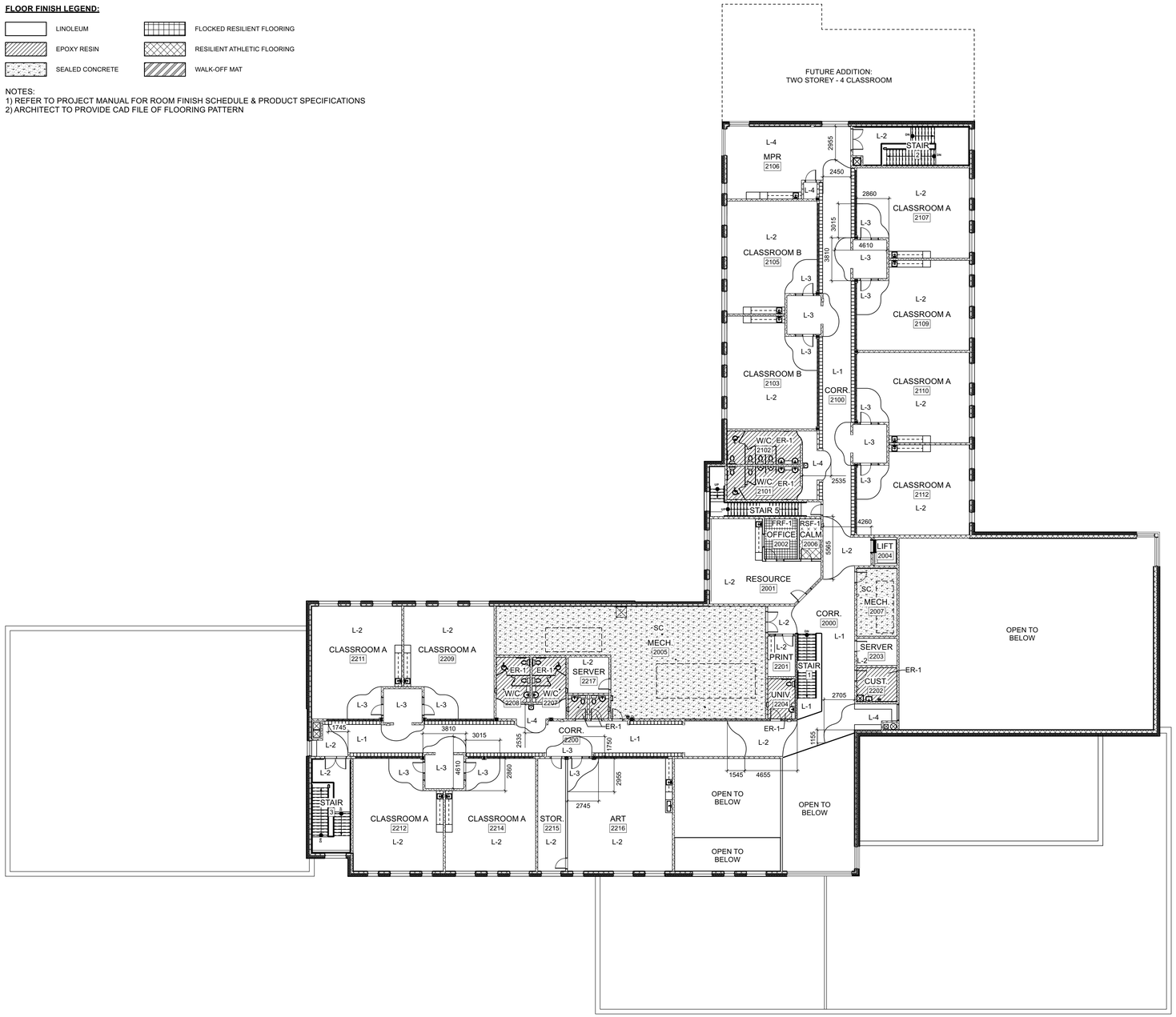
NEW WEST STEINBACH ELEMENTARY SCHOOL
Parkland Drive, Steinbach, MB

A2 13

FLOOR FINISH LEGEND:

LINOLEUM	FLOCKED RESILIENT FLOORING
EPOXY RESIN	RESILIENT ATHLETIC FLOORING
SEALED CONCRETE	WALK-OFF MAT

NOTES:
1) REFER TO PROJECT MANUAL FOR ROOM FINISH SCHEDULE & PRODUCT SPECIFICATIONS
2) ARCHITECT TO PROVIDE CAD FILE OF FLOORING PATTERN



1 A2-14 SECOND FLOOR - FLOOR FINISHES PLAN
Scale: 1:200

CONSTRUCTION NORTH
TRUE NORTH

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PROVINCE OF MANITOBA LINDSAY OSTER 2023-03-24 REGISTERED ARCHITECT

PROVINCE OF MANITOBA PRAIRIE ARCHITECTS INC. No. 026 APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

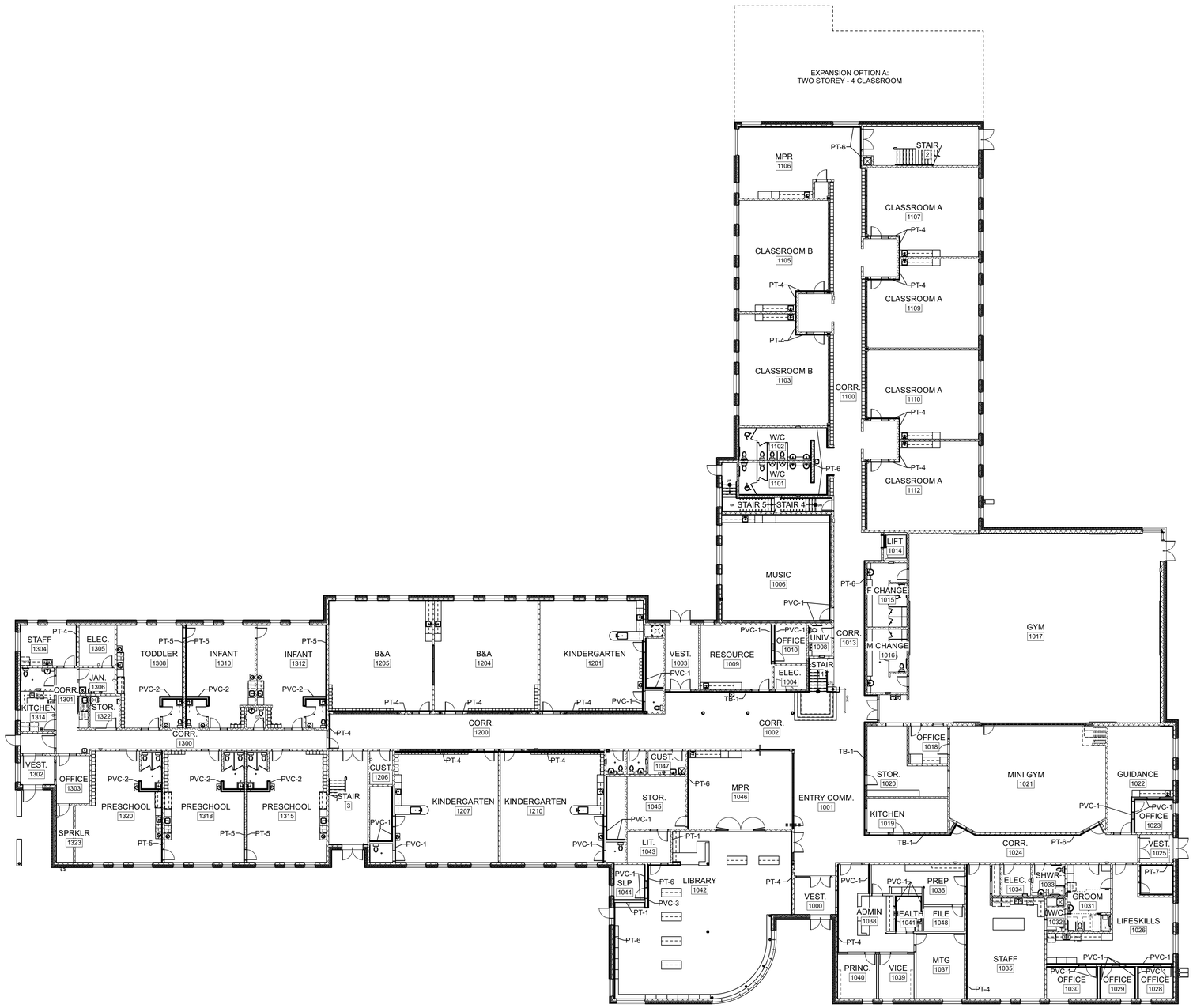
drawing information

FINISHES - FLOOR - SECOND FLOOR

drawn by:	KB
approved by:	LO
scale:	1:100
date issued:	2023.03.24
proj. #:	2021.49
rev. #:	R-0

NEW WEST STEINBACH ELEMENTARY SCHOOL
Parkland Drive, Steinbach, MB

A2 14



1 A2-15 MAIN FLOOR - WALL FINISHES PLAN
Scale: 1:200

NOTE: -ALL WALLS TO BE PAINTED PT-1 UNLESS OTHERWISE NOTED.
NOTE: -REFER TO SPEC. FOR DESCRIPTION OF FINISHES

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Manitoba
DEPARTMENT OF CENTRAL SERVICES
Suite 200 - 400 Elice Ave., Winnipeg MB R3B 3M3
telephone | 204-945-8803 **fax** | 204-948-2001

issue / rev.

#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

PROVINCE OF MANITOBA
LINDSAY OSTER
2023-03-24
REGISTERED ARCHITECT

PROVINCE OF MANITOBA
PRAIRIE ARCHITECTS INC.
No. 026
APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
Parkland Drive, Steinbach, MB

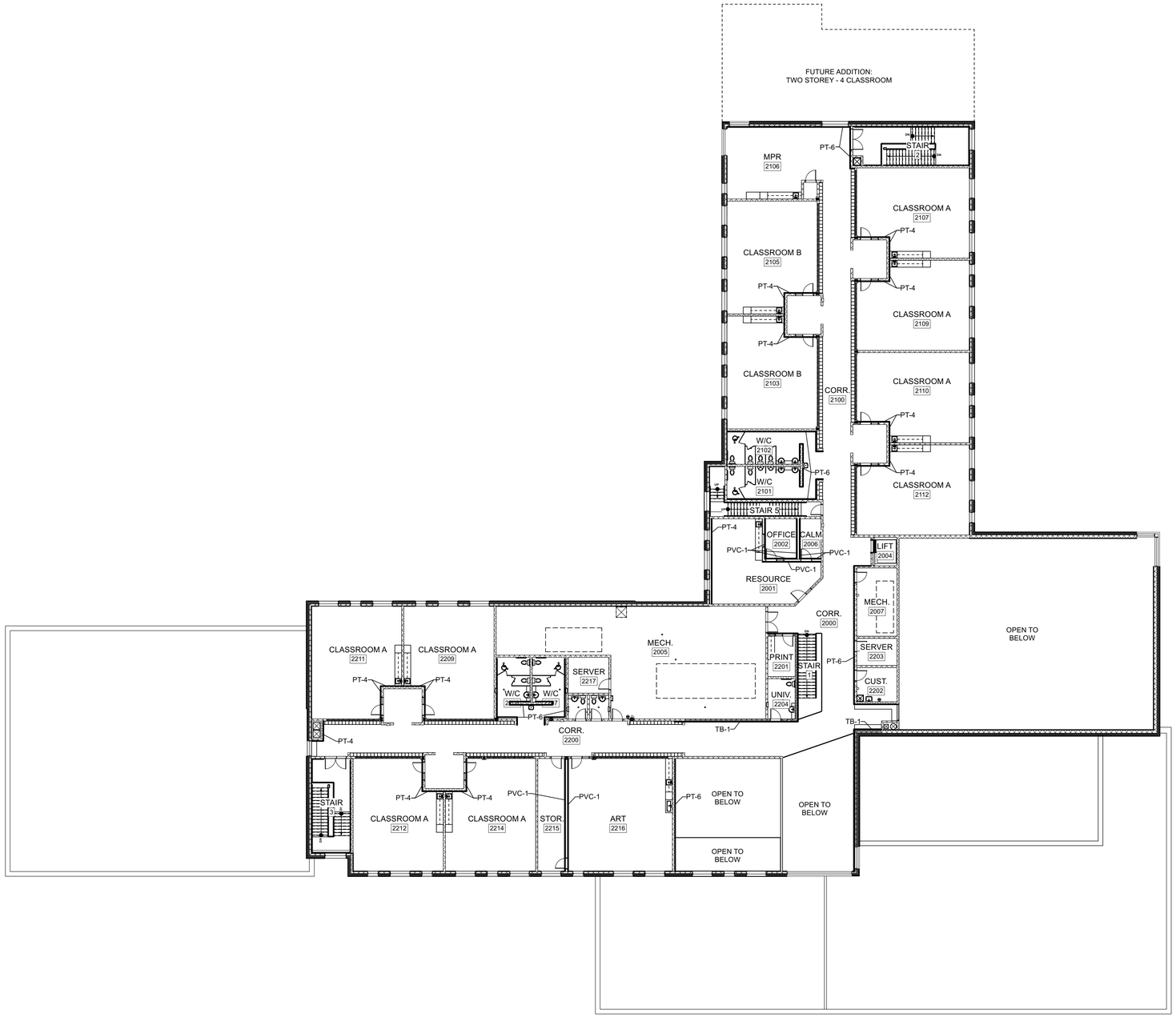
drawing information

FINISHES - WALL - MAIN FLOOR

drawn by: **KB**
approved by: **LO**

scale: **1:100**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

A2 15



1
A2-16

SECOND FLOOR - WALL FINISHES PLAN

Scale: 1:200

NOTE: -ALL WALLS TO BE PAINTED PT-1 UNLESS OTHERWISE NOTED.

CONSTRUCTION NORTH

TRUE NORTH

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architects inc.

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web | www.prairiearchitects.ca

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LINDSAY OSTER
2023-03-24
REGISTERED ARCHITECT

PROVINCE OF MANITOBA
PRAIRIE ARCHITECTS INC.
No. 028
APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
Parkland Drive, Steinbach, MB

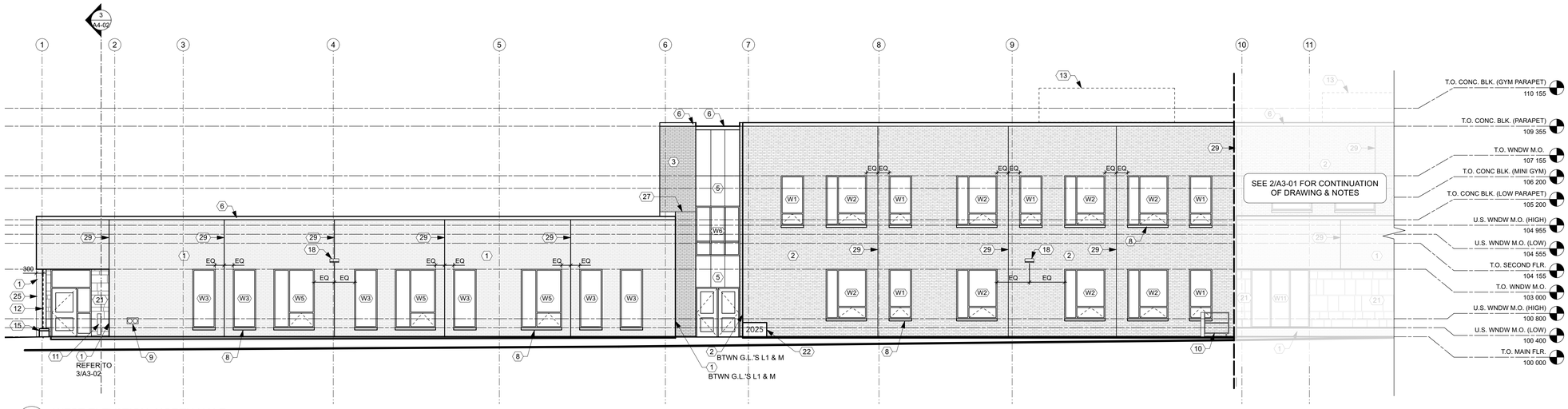
drawing information

FINISHES - WALL - SECOND FLOOR

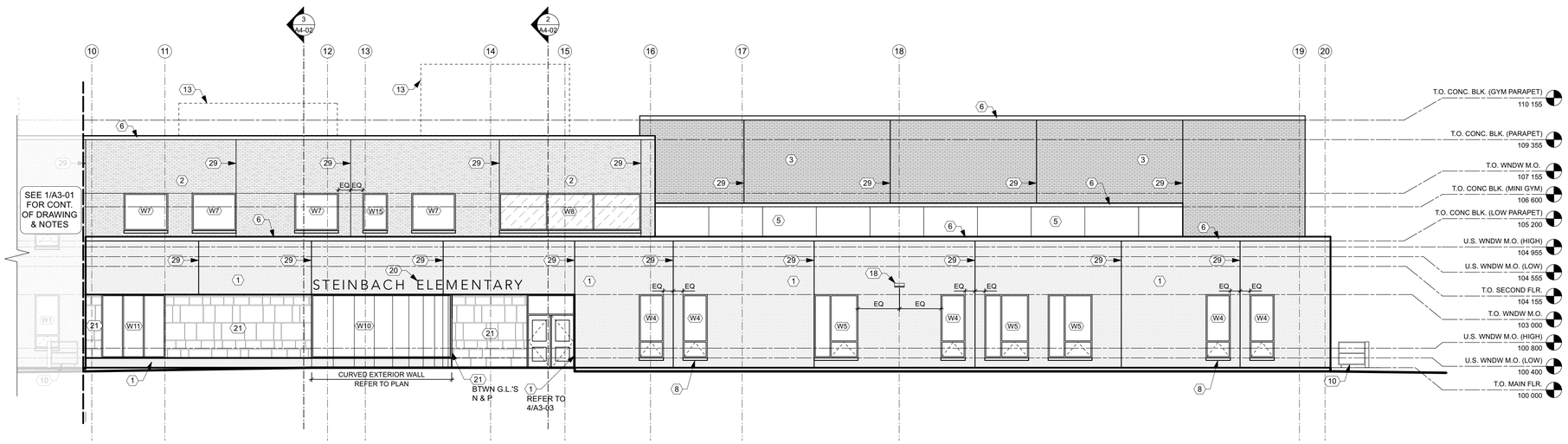
drawn by: **KB**
approved by: **LO**

scale: **1:100**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

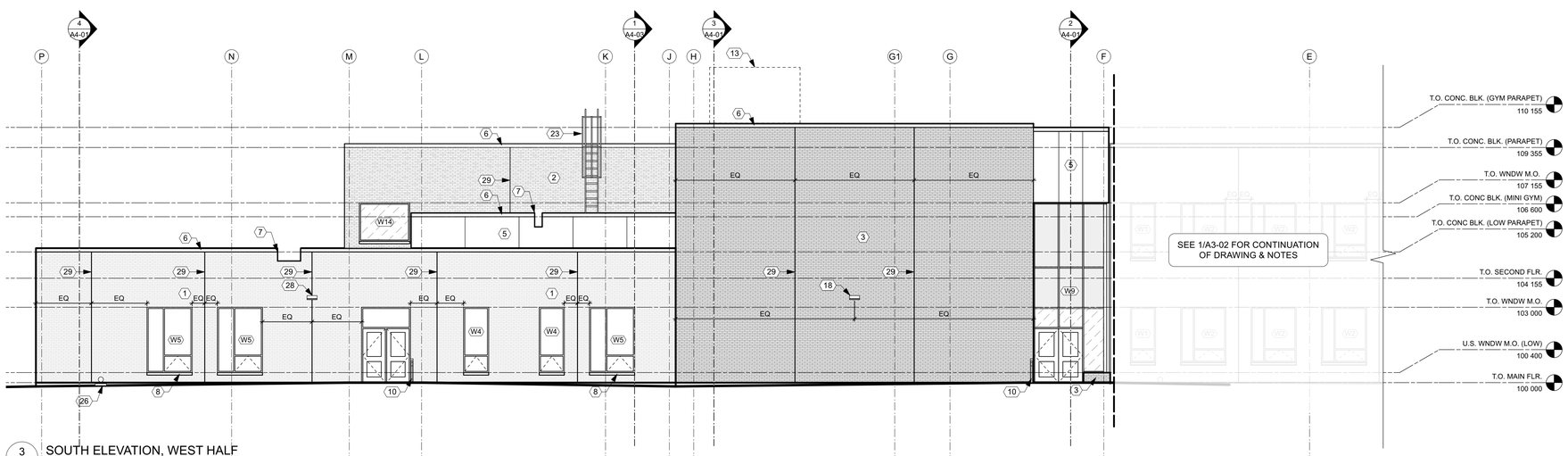
A2 16



1 A3-01 WEST ELEVATION, NORTH HALF
Scale: 1:100



2 A3-01 WEST ELEVATION, SOUTH HALF
Scale: 1:100



3 A3-01 SOUTH ELEVATION, WEST HALF
Scale: 1:100

MATERIALS LEGEND

- MASONRY VENEER TYPE 1 - CLAY BRICK
- MASONRY VENEER TYPE 2 - CLAY BRICK
- MASONRY VENEER TYPE 3 - CLAY BRICK
- MASONRY VENEER TYPE 4 - TYNDALL STONE
- MASONRY VENEER TYPE 5 - TYNDALL STONE 75mm DEPTH
- COMPOSITE METAL PANELS - MP-1
- PREFORMED METAL PANELS - MP-2

KEYNOTES - BUILDING ELEVATIONS:

1. MASONRY VENEER TYPE 1 - CLAY BRICK
2. MASONRY VENEER TYPE 2 - CLAY BRICK
3. MASONRY VENEER TYPE 3 - CLAY BRICK
4. MASONRY VENEER TYPE 4 - TYNDALL STONE. REFER TO TYPICAL COURSING ELEVATION FOR TYNDALL COURSING HEIGHTS.
5. COMPOSITE METAL PANELS
6. PREFIN. MTL. PARAPET CAP FLASHING - COLOUR TO MATCH WINDOW FRAME.
7. PREFIN. MTL. OVERFLOW SCUPPER. REFER TO SECTION DETAIL. REFER TO ROOF PLAN FOR DIMENSIONS.
8. SLOPED TYNDALL STONE SILL, TYPICAL ALL WINDOWS
9. FIRE DEPT. CONNECTION, REFER TO MECH.
10. MTL GUIDE RAIL W/ POST & DOOR AUTO-OPERATOR ACTUATOR, SEE DETAILS 13 & 14 / A6-03. REFER TO SPEC., STRUCT. & ELEC.
11. WALL MOUNTED DOOR AUTO-OPERATOR ACTUATOR
12. EXPOSED STRUCT. STL. COLUMN, PAINTED FINISH.
13. ROOF TOP UNIT BEYOND, REFER TO MECH.
14. PREFORMED METAL PANELS
15. TYNDALL STONE CLAD BENCH
16. TYNDALL STONE CLAD BENCH C/W EQUAL SIZED STONE SIDE PANELS AND CAP - ALIGN JOINTS, REFER TO SECTION AND SPECIFICATION.
17. LOUVRE. REFER TO MECHANICAL (COLOUR TO BE SELECTED BY ARCHITECT).
18. EXTERIOR LIGHT W/ U/S @ 3300AFF U.N.O. (REFER TO ELEC.)
19. SAWN FACE ACCENT TYNDALL PANEL W/ FOSSIL. CNC ROUTERED FOSSIL LABEL IN STONE. APPROX. SIZE & LOCATION. CONFIRM SIZE, LOCATION & DESIGN WITH CONSULTANT. REFER TO COURSING ELEVATION.
20. RAISED MTL. EXTERIOR SIGNAGE - REFER TO ELEVATION DETAIL & SPEC.
21. MASONRY VENEER TYPE 5 - TYNDALL STONE 75MM DEPTH. REFER TO TYPICAL COURSING ELEVATION FOR TYNDALL COURSING HEIGHTS.
22. 90 THICK, TYNDALL DATE STONE, 5 1/2 MASONRY COURSES x 9 MASONRY COURSES TALL, CONFIRM DATE & DESIGN WITH CONSULTANT PRIOR TO FABRICATION.
23. WALL MOUNTED ROOF ACCESS LADDER, REFER TO ROOF PLAN & SPECIFICATION
24. CONTINUE TYNDALL ON EAST FACE BETWEEN G.L.12 & G.L.13 TERMINATING AT INSIDE CORNER
25. MASONRY VENEER TO TURN CORNER 300MM
26. SUMP PUMP DISCHARGE TO CONC. SPLASH PAD @ GRADE, SEE PLANS, LANDSCAPE & SPEC.
27. LINE OF MASONRY SUPPORT ANGLE, REFER TO STRUCTURAL
28. EXTERIOR LIGHT, U/S @ 3300AFF U.N.O. (REFER TO ELEC.)
29. MASONRY CONTROL JOINT

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web | www.prairiearchitects.ca

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PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. — No. 028 — REGISTERED ARCHITECTURAL CORPORATION

project information

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Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

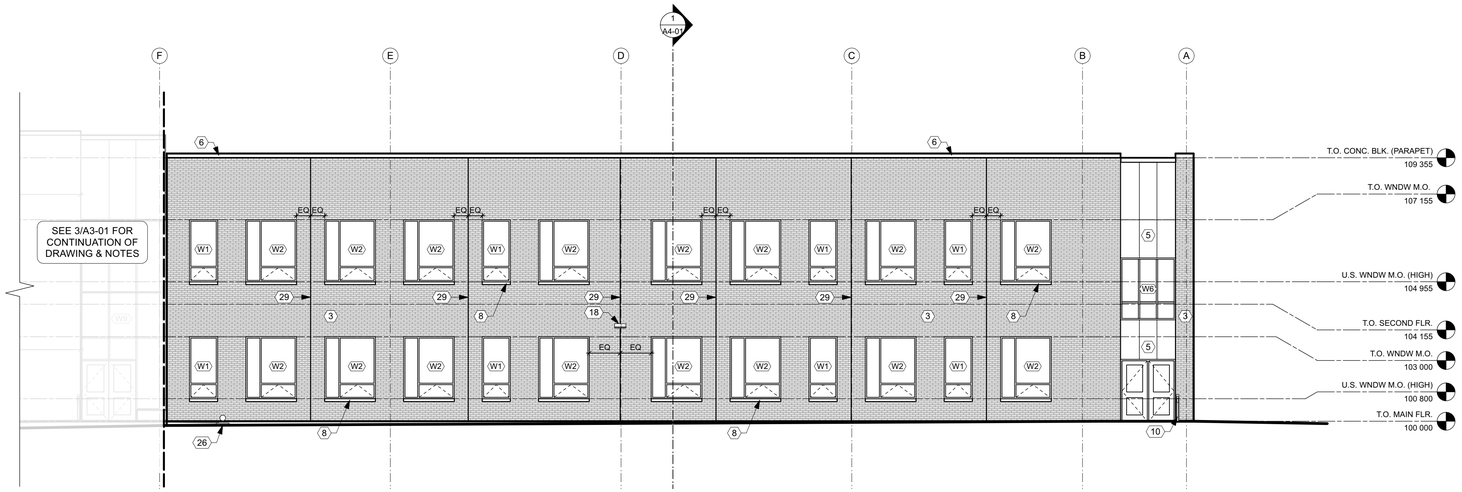
NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

drawing information

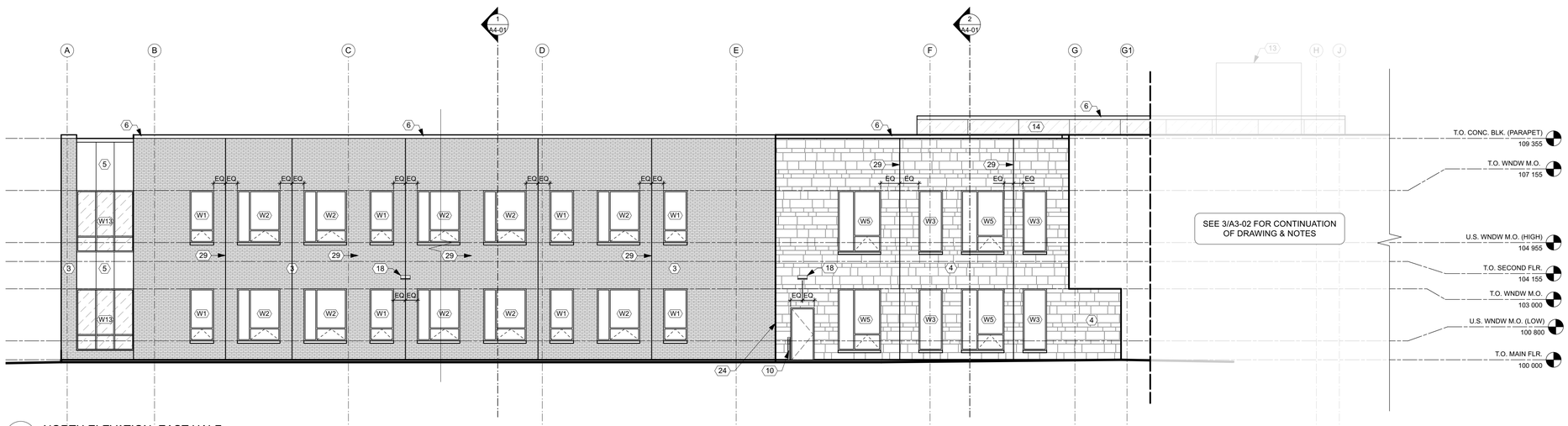
BUILDING ELEVATIONS

drawn by:	ER
approved by:	LO
scale:	1:100
date issued:	2023.03.24
proj. #:	2021.49
rev. #:	R-0

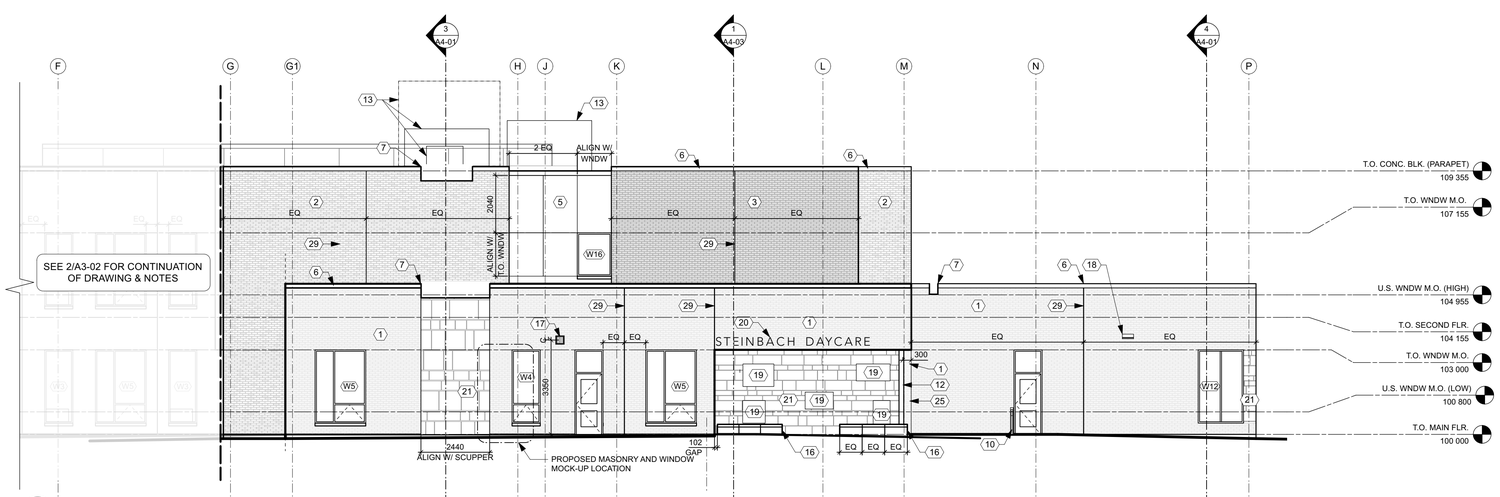
A3 01



1 A3-02 SOUTH ELEVATION, EAST HALF
Scale: 1:100



2 A3-02 NORTH ELEVATION, EAST HALF
Scale: 1:100



3 A3-02 NORTH ELEVATION, CHILDCARE
Scale: 1:100

MATERIALS LEGEND

- MASONRY VENEER TYPE 1 - CLAY BRICK
- MASONRY VENEER TYPE 2 - CLAY BRICK
- MASONRY VENEER TYPE 3 - CLAY BRICK
- MASONRY VENEER TYPE 4 - TYNDALL STONE
- MASONRY VENEER TYPE 5 - TYNDALL STONE 75mm DEPTH
- COMPOSITE METAL PANELS - MP-1
- PREFORMED METAL PANELS - MP-2

KEYNOTES - BUILDING ELEVATIONS:

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2. MASONRY VENEER TYPE 2 - CLAY BRICK
3. MASONRY VENEER TYPE 3 - CLAY BRICK
4. MASONRY VENEER TYPE 4 - TYNDALL STONE. REFER TO TYPICAL COURSING ELEVATION FOR TYNDALL COURSING HEIGHTS.
5. COMPOSITE METAL PANELS
6. PREFIN. MTL. PARAPET CAP FLASHING - COLOUR TO MATCH WINDOW FRAME
7. PREFIN. MTL. OVERFLOW SCUPPER. REFER TO SECTION DETAIL. REFER TO ROOF PLAN FOR DIMENSIONS.
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PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. — No. 028 — APPROVED ARCHITECTURAL CORPORATION

project information

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Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

drawing information

BUILDING ELEVATIONS

drawn by: **ER**
approved by: **LO**

scale: **1:100**
date issued: **2023.03.24**
proj. #: **2021.49**
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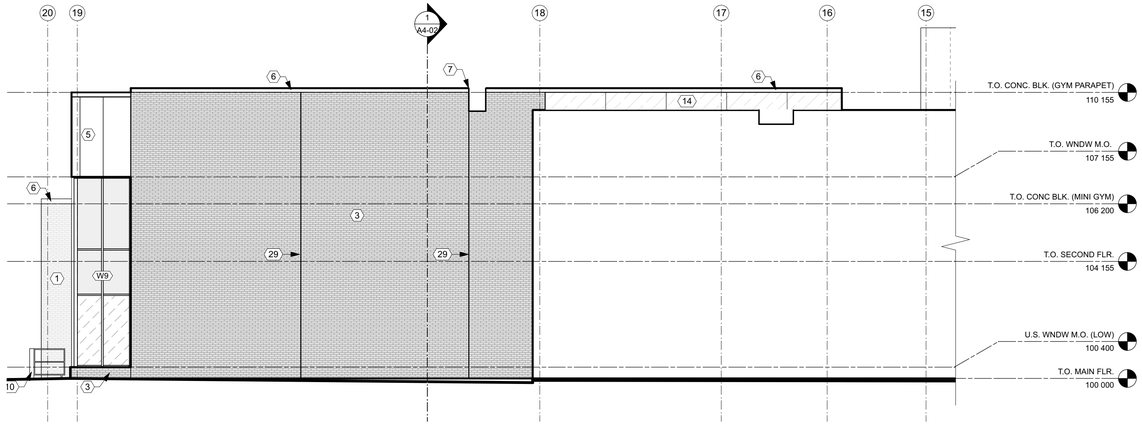
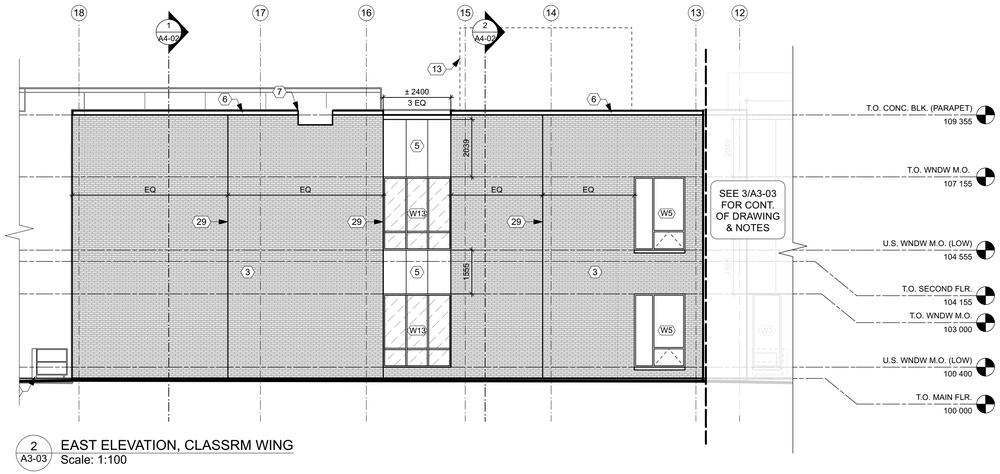
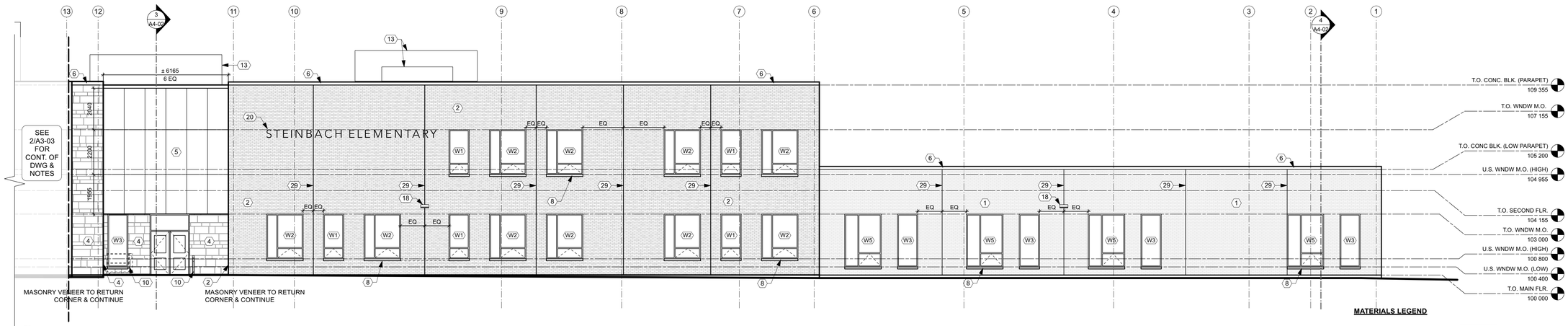
A3 02



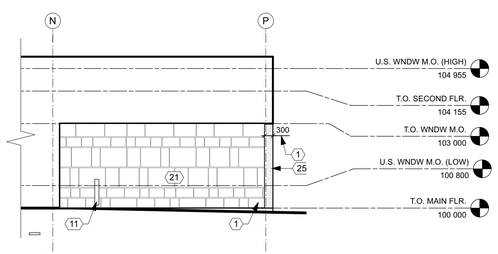
1 A3-03 EAST ELEVATION, GYM
Scale: 1:100



2 A3-03 EAST ELEVATION, CLASSRM WING
Scale: 1:100



3 A3-03 EAST ELEVATION, EARLY YRS
Scale: 1:100



4 A3-03 NORTH ELEVATION, ENTRY
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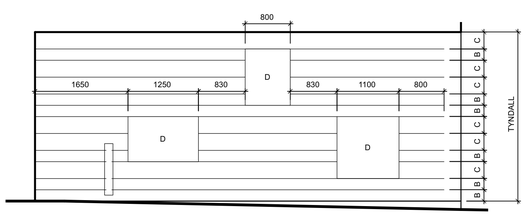
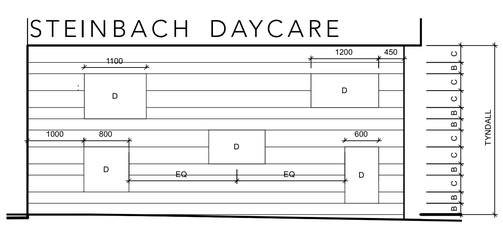


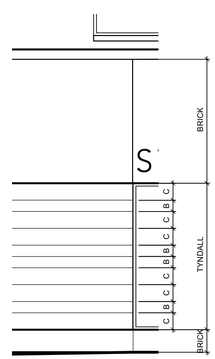
MAIN ENTRY TYNDALL @ NORTH ELEVATION

TYNDALL STONE COURSING LEGEND

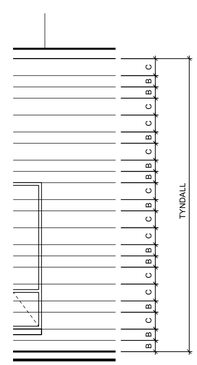
A - 154+/- TYNDALL COURSE (CONFIRM ON SITE - INTENT IS TO HAVE NEW COURSE START AT U/S OF WINDOW)
B - 200 TYNDALL COURSE
C - 300 TYNDALL COURSE
D - APPROX LOCATION OF ACCENT TYNDALL PANEL W/ FOSSIL. COORDINATE SIZE WITH COURSING.



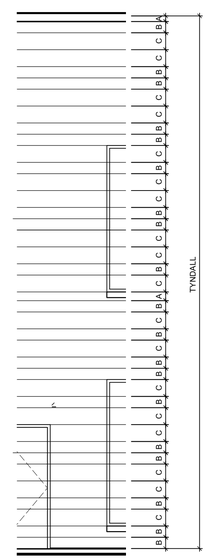
DAYCARE TYNDALL @ NORTH ELEVATION



ENTRY SIGNAGE @ WEST ELEVATION



TYPICAL TYNDALL COURSING
1 STOREY



TYPICAL TYNDALL COURSING
2 STOREY

CONFIRM TEXT TO DETERMINE
SIGN LENGTH

STEINBACH ELEMENTARY

MAIN & EAST ENTRY SIGNAGE - WEST & EAST ELEVATION
REFER TO SPEC. FOR SIGNAGE CONSTRUCTION
CONFIRM SIGNAGE TEXT & SCHOOL NAME WITH CONSULTANT
CENTRE SIGNAGE ON MASONRY COURSING. REFER TO COURSING ELEVATIONS FOR GUIDE. CONFIRM LOCATIONS WITH CONSULTANT PRIOR TO INSTALL.

CONFIRM TEXT TO DETERMINE
SIGN LENGTH

STEINBACH DAYCARE

DAYCARE ENTRY SIGNAGE - NORTH ELEVATION
REFER TO SPEC. FOR SIGNAGE CONSTRUCTION
CONFIRM SIGNAGE TEXT & SCHOOL NAME WITH CONSULTANT.
CENTRE SIGNAGE ON MASONRY COURSING. REFER TO COURSING ELEVATIONS FOR GUIDE. CONFIRM LOCATIONS WITH CONSULTANT PRIOR TO INSTALL.

5 A3-03 SIGNAGE DETAIL
Scale: 1:50

6 A3-01 TYP TYNDALL COURSING ELEVATIONS
Scale: 1:50

MATERIALS LEGEND

MASONRY VENEER TYPE 1
- CLAY BRICK

MASONRY VENEER TYPE 2
- CLAY BRICK

MASONRY VENEER TYPE 3
- CLAY BRICK

MASONRY VENEER TYPE 4
- TYNDALL STONE

MASONRY VENEER TYPE 5
- TYNDALL STONE 75mm DEPTH

COMPOSITE METAL PANELS
- MP-1

PREFORMED METAL PANELS
- MP-2

KEYNOTES - BUILDING ELEVATIONS:

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8. SLOPED TYNDALL STONE SILL, TYPICAL ALL WINDOWS
9. FIRE DEPT. CONNECTION. REFER TO MECH.
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LINDSAY OSTER
2023-03-24
REGISTERED ARCHITECT

PROVINCE OF MANITOBA
PRAIRIE ARCHITECTS INC.
No. 025
APPROVED ARCHITECTURAL CORPORATION

project information

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drawing information

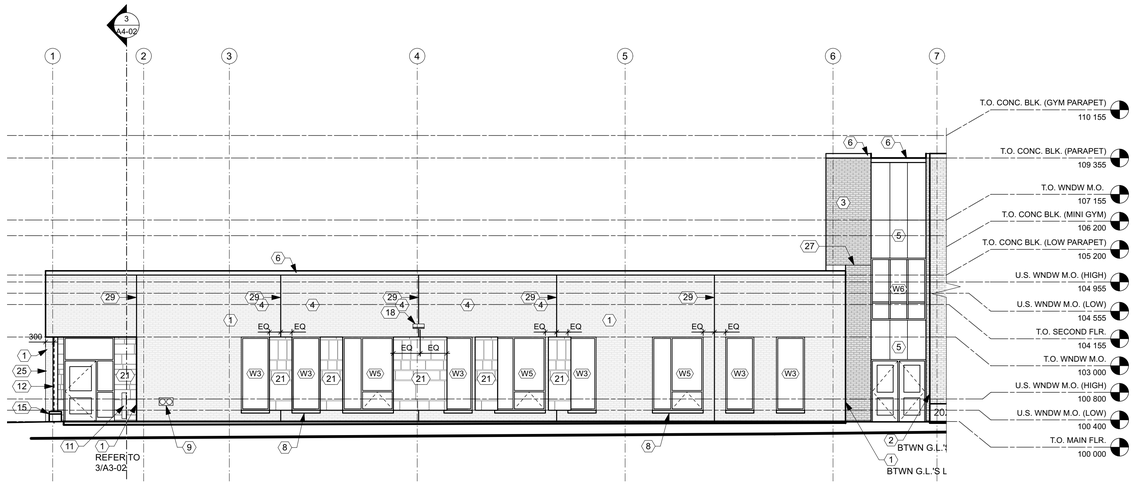
BUILDING ELEVATIONS

drawn by: ER
approved by: LO

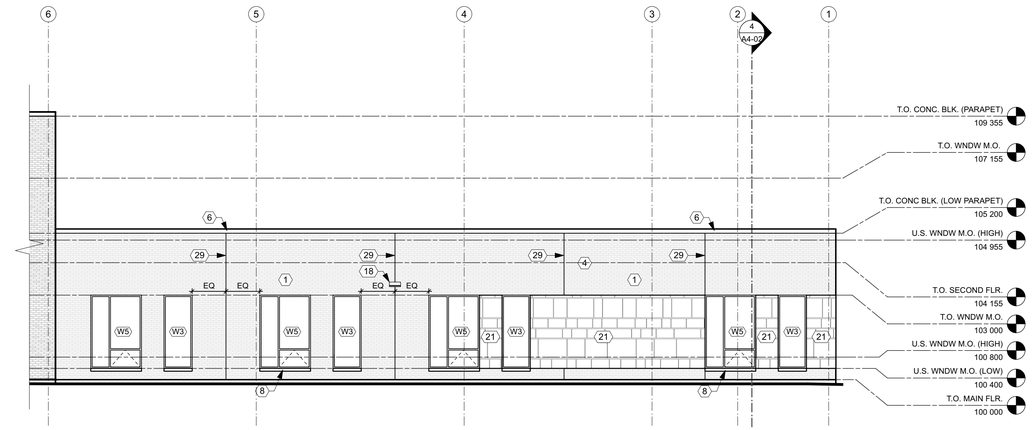
scale: 1:100
date issued: 2023.03.24
proj. #: 2021.49
rev. #: R-0

A3 03

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB



1 A3-04 ALTERNATE PRICE CLADDING - WEST ELEVATION, NORTH HALF
Scale: 1:100



2 A3-04 ALTERNATE PRICE CLADDING - EAST ELEVATION, EARLY YRS
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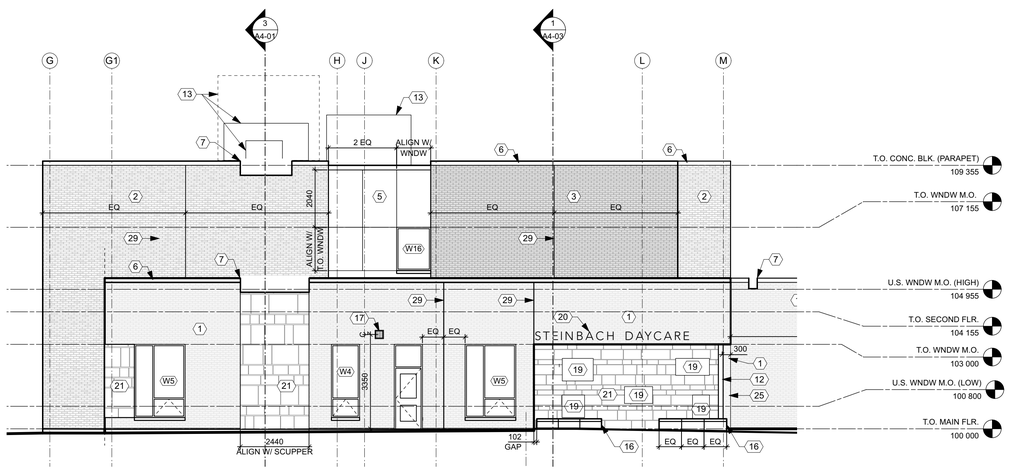
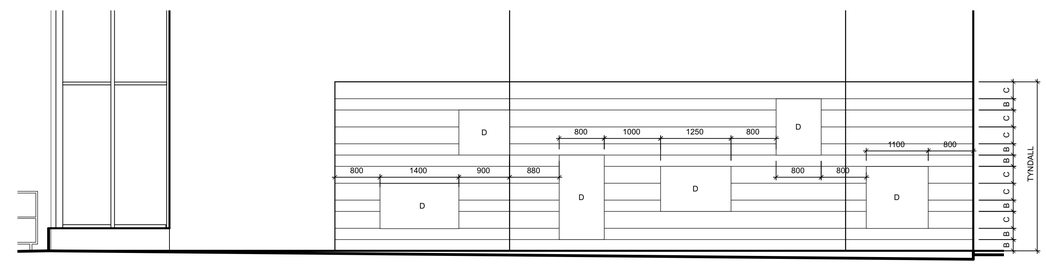


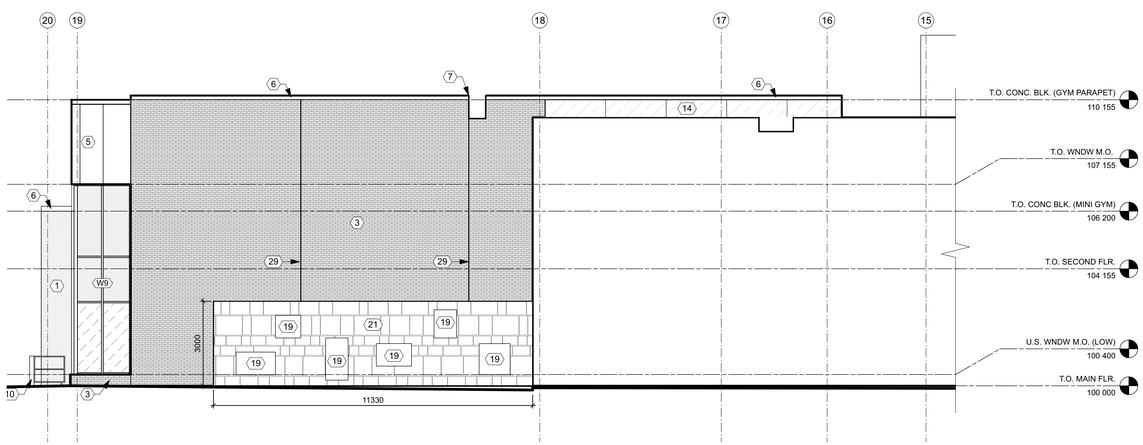
3 A3-04 ALTERNATE PRICE CLADDING - NORTH ELEVATION, CHILDCARE
Scale: 1:100



B - 190 TYNDALL COURSE
C - 290 TYNDALL COURSE
D - APPROX LOCATION OF ACCENT TYNDALL PANEL W/ FOSSIL. COORDINATE SIZE WITH COURSING.

FOSSIL PANELS & TYP COURSING @ EAST ELEVATION, GYM

5 A3-04 ALT PRICE CLADDING - TYP TYNDALL COURSING ELEVATION
Scale: 1:50



4 A3-04 ALTERNATE PRICE CLADDING - EAST ELEVATION, GYM
Scale: 1:100

MATERIALS LEGEND

- MASONRY VENEER TYPE 1 - CLAY BRICK
- MASONRY VENEER TYPE 2 - CLAY BRICK
- MASONRY VENEER TYPE 3 - CLAY BRICK
- MASONRY VENEER TYPE 4 - TYNDALL STONE
- MASONRY VENEER TYPE 5 - TYNDALL STONE 75mm DEPTH
- COMPOSITE METAL PANELS - MP-1
- PREFORMED METAL PANELS - MP-2

KEYNOTES - BUILDING ELEVATIONS:

1. MASONRY VENEER TYPE 1 - CLAY BRICK
2. MASONRY VENEER TYPE 2 - CLAY BRICK
3. MASONRY VENEER TYPE 3 - CLAY BRICK
4. MASONRY VENEER TYPE 4 - TYNDALL STONE. REFER TO TYPICAL COURSING ELEVATION FOR TYNDALL COURSING HEIGHTS.
5. COMPOSITE METAL PANELS
6. PREFIN. MTL. PARAPET CAP FLASHING - COLOUR TO MATCH WINDOW FRAME
7. PREFIN. MTL. OVERFLOW SCUPPER. REFER TO SECTION DETAIL. REFER TO ROOF PLAN FOR DIMENSIONS.
8. SLOPED TYNDALL STONE SILL, TYPICAL ALL WINDOWS
9. FIRE DEPT. CONNECTION, REFER TO MECH.
10. MTL GUIDE RAIL W/ POST & DOOR AUTO-OPERATOR ACTUATOR, SEE DETAILS 13 & 14 / A6-03. REFER TO SPEC., STRUCT. & ELEC.
11. WALL MOUNTED DOOR AUTO-OPERATOR ACTUATOR
12. EXPOSED STRUCT. STL. COLUMN. PAINTED FINISH.
13. ROOF TOP UNIT BEYOND, REFER TO MECH.
14. PREFORMED METAL PANELS
15. TYNDALL STONE CLAD BENCH
16. TYNDALL STONE CLAD BENCH C/W EQUAL SIZED STONE SIDE PANELS AND CAP - ALIGN JOINTS, REFER TO SECTION AND SPECIFICATION.
17. LOUVRE, REFER TO MECHANICAL (COLOUR TO BE SELECTED BY ARCHITECT).
18. EXTERIOR LIGHT W/ U/S @ 3300AFF U.N.O. (REFER TO ELEC.)
19. SAWN FACE ACCENT TYNDALL PANEL W/ FOSSIL. CNC ROUTERED FOSSIL LABEL IN STONE. APPROX. SIZE & LOCATION. CONFIRM SIZE, LOCATION & DESIGN WITH CONSULTANT. REFER TO COURSING ELEVATION.
20. RAISED MTL. EXTERIOR SIGNAGE - REFER TO ELEVATION DETAIL & SPEC.
21. MASONRY VENEER TYPE 5 - TYNDALL STONE 75MM DEPTH. REFER TO TYPICAL COURSING ELEVATION FOR TYNDALL COURSING HEIGHTS.
22. 90 THICK, TYNDALL DATE STONE, 5 1/2 MASONRY COURSES x 9 MASONRY COURSES TALL. CONFIRM DATE & DESIGN WITH CONSULTANT PRIOR TO FABRICATION.
23. WALL MOUNTED ROOF ACCESS LADDER, REFER TO ROOF PLAN & SPECIFICATION.
24. CONTINUE TYNDALL ON EAST FACE BETWEEN G.L.12 & G.L.13 TERMINATING AT INSIDE CORNER
25. MASONRY VENEER TO TURN CORNER 300MM
26. SUMP PUMP DISCHARGE TO CONC. SPLASH PAD @ GRADE, SEE PLANS, LANDSCAPE & SPEC.
27. LINE OF MASONRY SUPPORT ANGLE, REFER TO STRUCTURAL
28. EXTERIOR LIGHT, U/S @ 3300AFF U.N.O. (REFER TO ELEC.)
29. MASONRY CONTROL JOINT

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#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

PROVINCE OF MANITOBA — LINDSAY OSTER — 2023-03-24 — REGISTERED ARCHITECT

PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. — No. 028 — APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

drawing information

ALTERNATE PRICE CLADDING BUILDING ELEVATIONS

drawn by: **ER**
approved by: **LO**

scale: **1:100**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

A3 04

GENERAL NOTES - EXTERIOR WINDOW SCHEDULE:

A. ALL WINDOW FRAMES TO BE FIBREGLASS UNLESS OTHERWISE INDICATED.

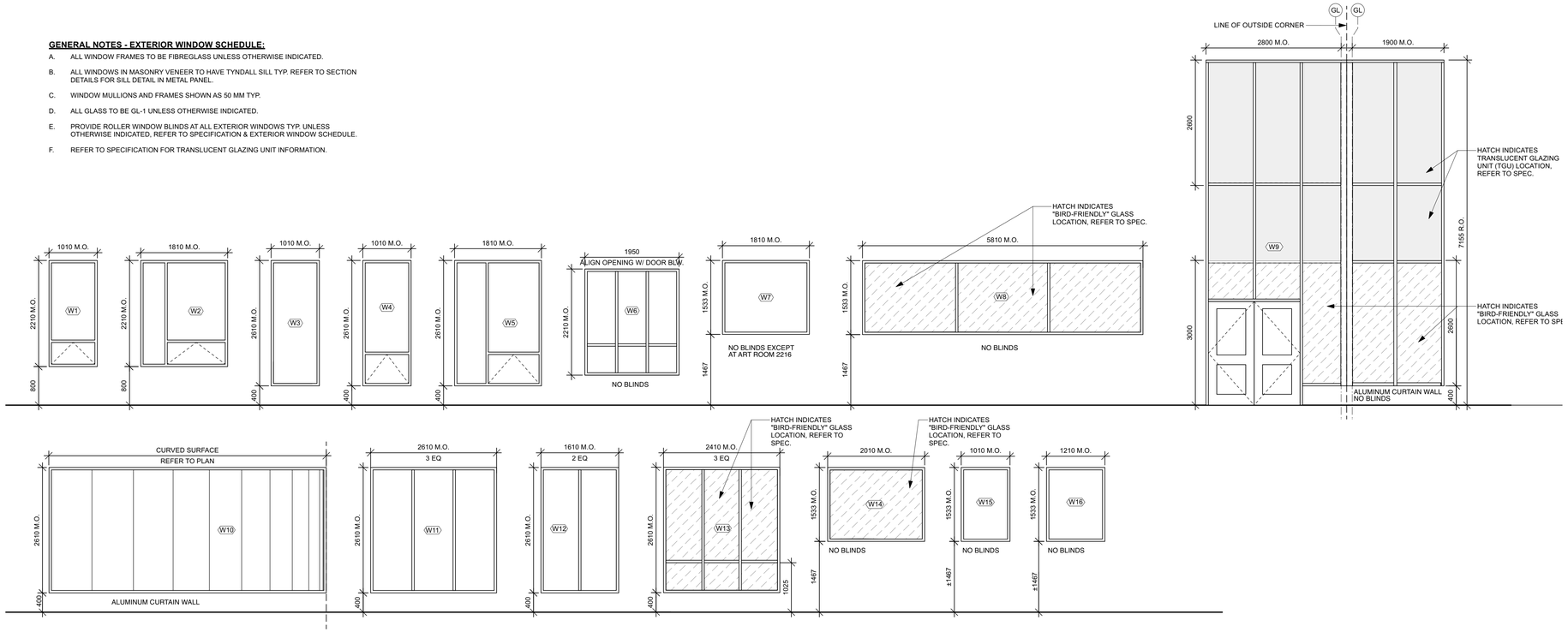
B. ALL WINDOWS IN MASONRY VENEER TO HAVE TYNDALL SILL TYP. REFER TO SECTION DETAILS FOR SILL DETAIL IN METAL PANEL.

C. WINDOW MULLIONS AND FRAMES SHOWN AS 50 MM TYP.

D. ALL GLASS TO BE GL-1 UNLESS OTHERWISE INDICATED.

E. PROVIDE ROLLER WINDOW BLINDS AT ALL EXTERIOR WINDOWS TYP. UNLESS OTHERWISE INDICATED, REFER TO SPECIFICATION & EXTERIOR WINDOW SCHEDULE.

F. REFER TO SPECIFICATION FOR TRANSLUCENT GLAZING UNIT INFORMATION.



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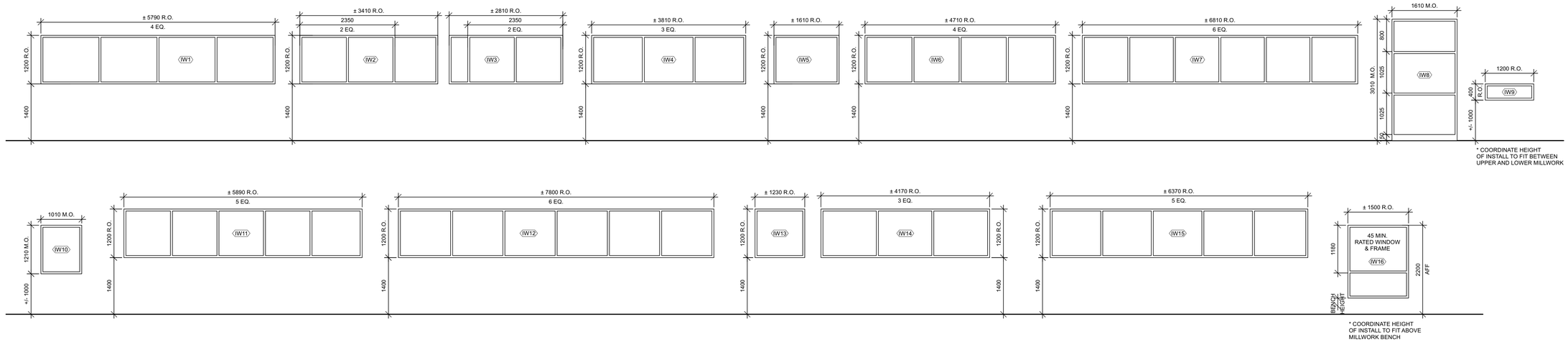
Scale: 1:50



2 A3-04 INTERIOR WINDOW SCHEDULE
Scale: 1:50

NOTE: REFER TO FLOOR PLANS FOR LOCATIONS

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PROVINCE OF MANITOBA LINDSAY OSTER 2023-03-24 REGISTERED ARCHITECT

PROVINCE OF MANITOBA PRAIRIE ARCHITECTS INC. No. 026 APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

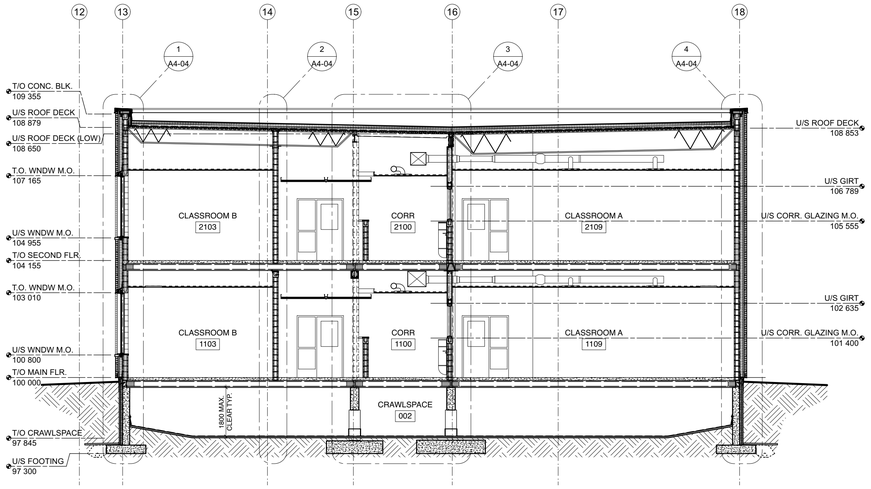
drawing information

WINDOW SCHEDULES

drawn by: **ER**
approved by: **LO**

scale: **1:100**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

A3 05



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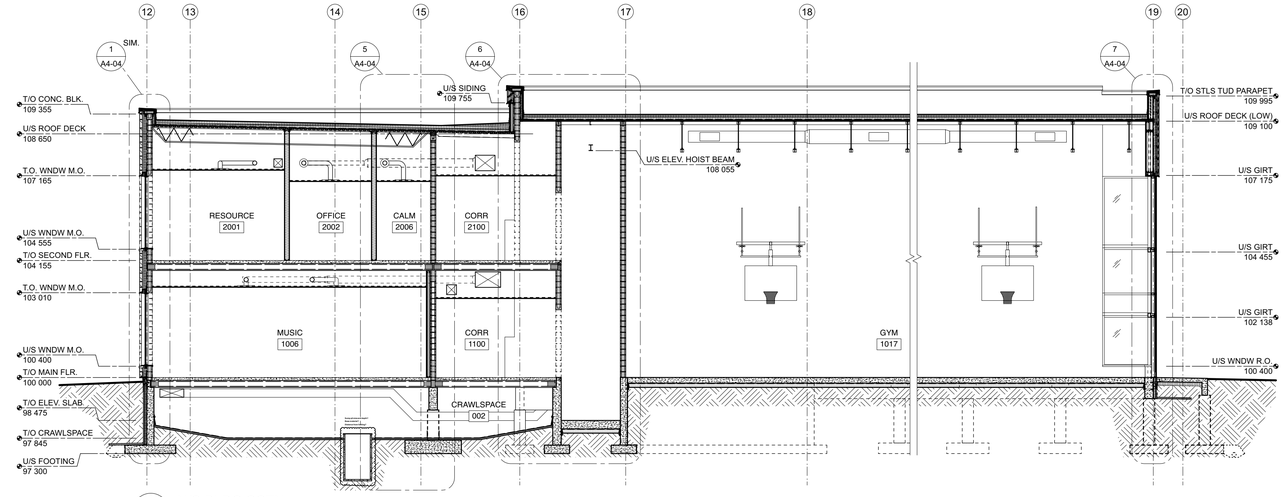

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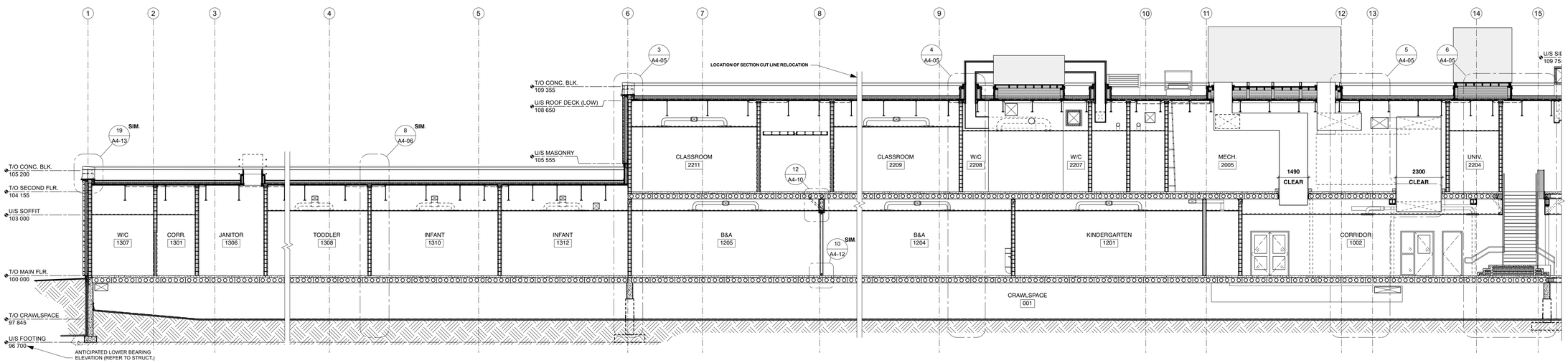

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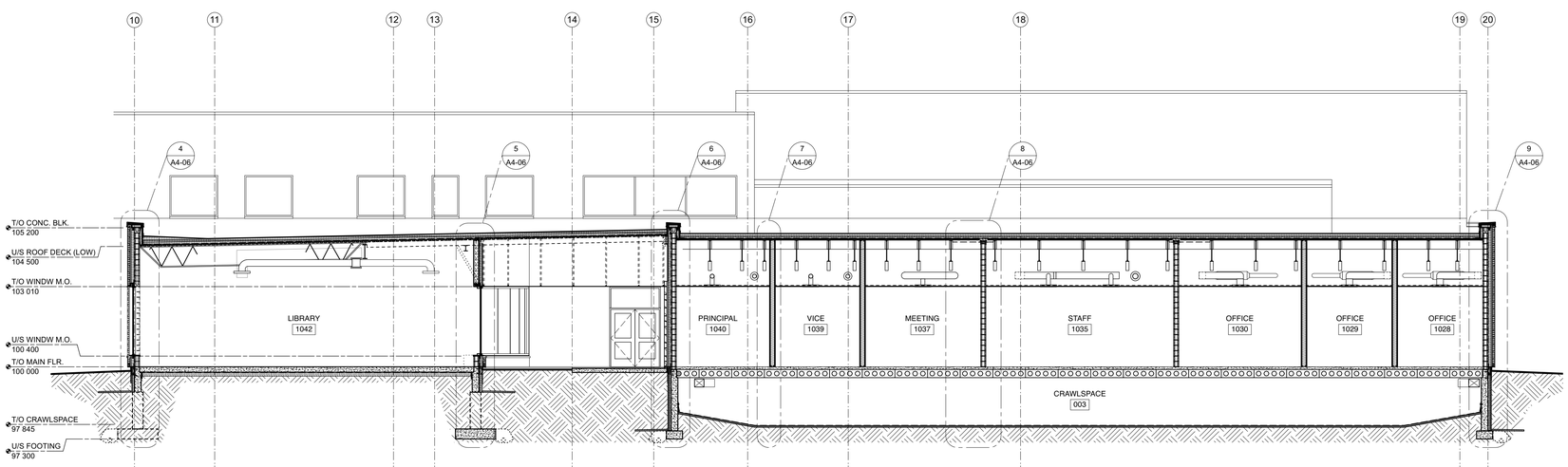

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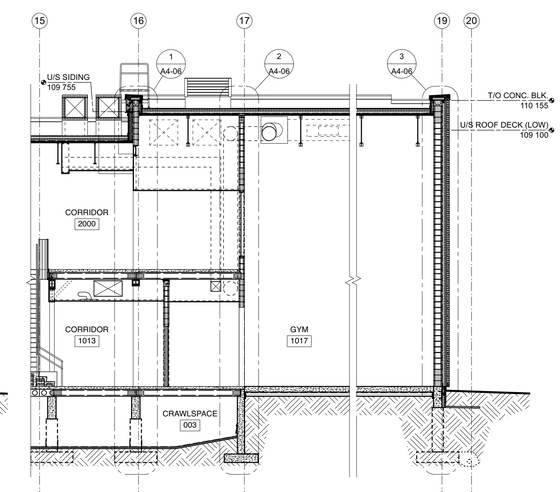

3 A4-01 N/S BLDG SCTN - CONTINUED
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PROVINCE OF MANITOBA LINDSAY OSTER 2023-03-24 REGISTERED ARCHITECT

PROVINCE OF MANITOBA PRAIRIE ARCHITECTS INC. No. 026 APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

drawing information

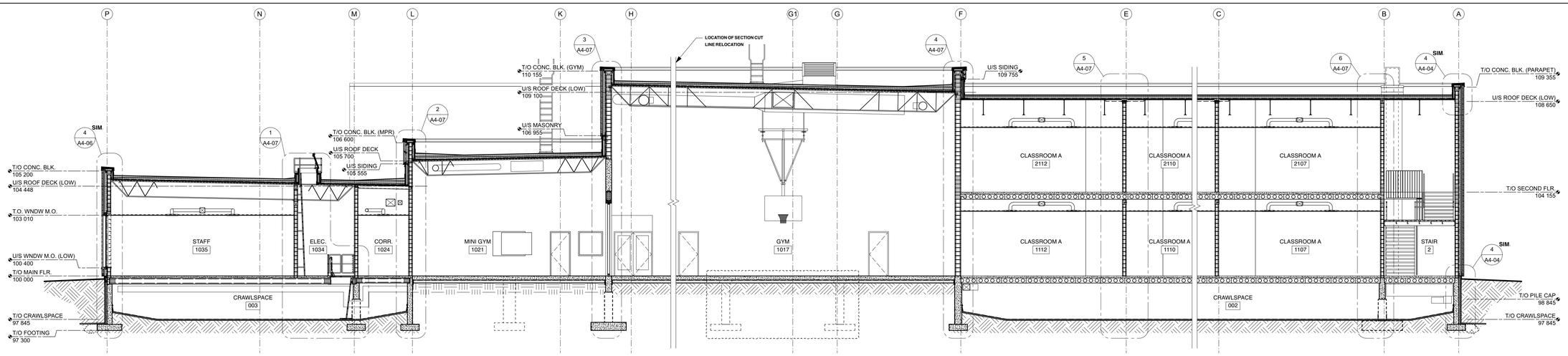
BUILDING SECTIONS

drawn by: **KM**
approved by: **LO**

scale: **1:100**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

A4 01



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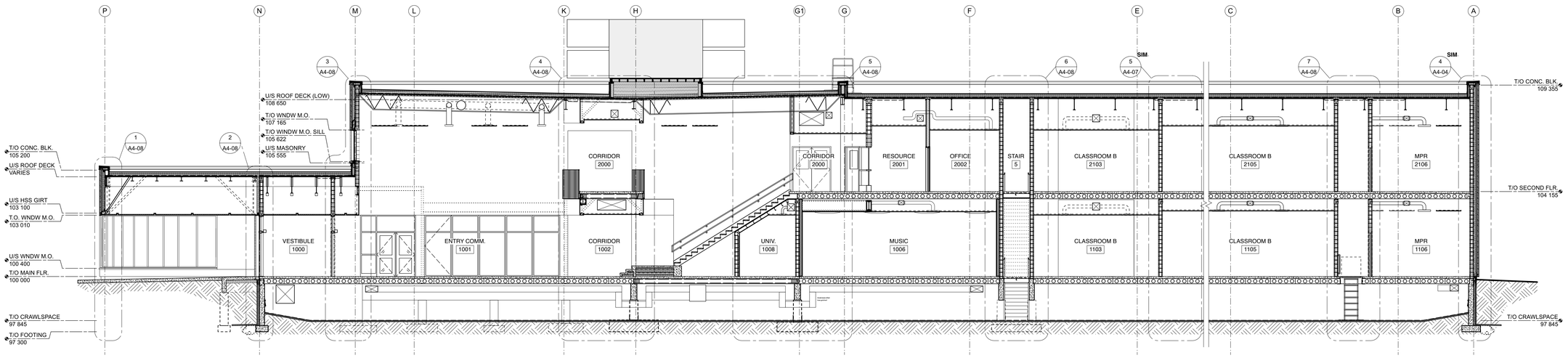

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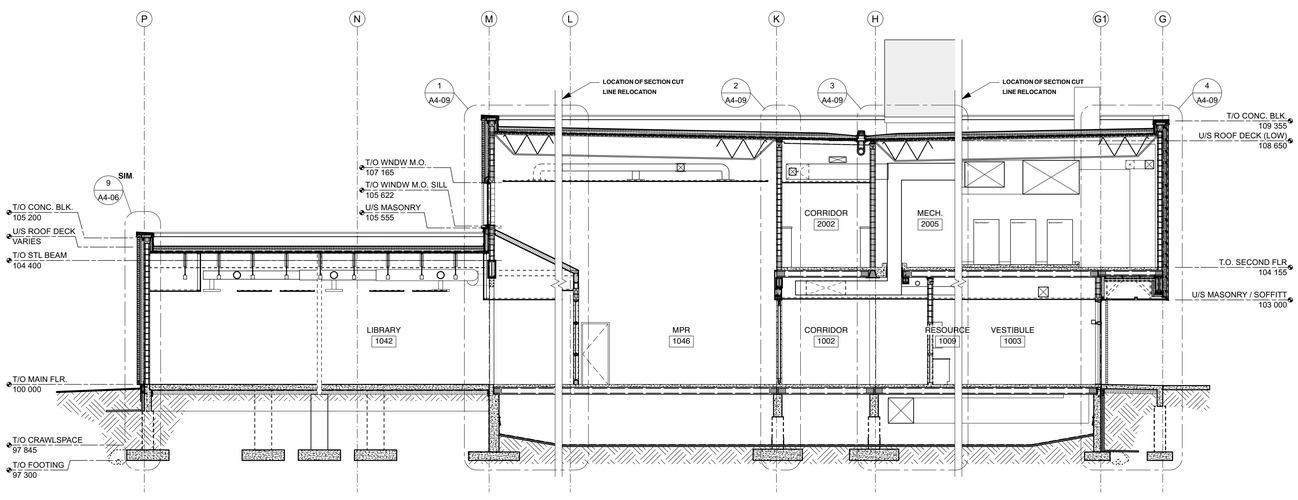

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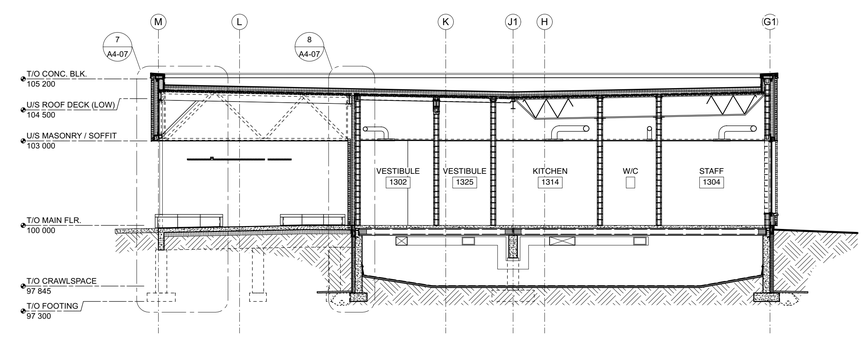

4 A4-02 E/W BLDG SCTN
Scale: 1:100

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PROVINCE OF MANITOBA LINDSAY OSTER 2023-03-24 REGISTERED ARCHITECT

PROVINCE OF MANITOBA PRAIRIE ARCHITECTS INC. No. 026 APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

drawing information

BUILDING SECTIONS

drawn by: KM
approved by: LO

scale: 1:100
date issued: 2023.03.24
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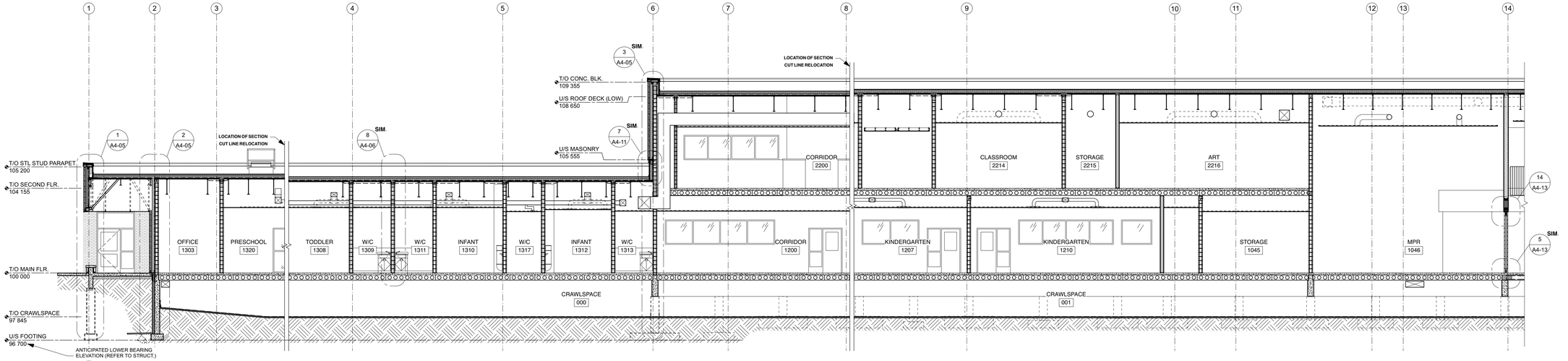
NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

A4 02



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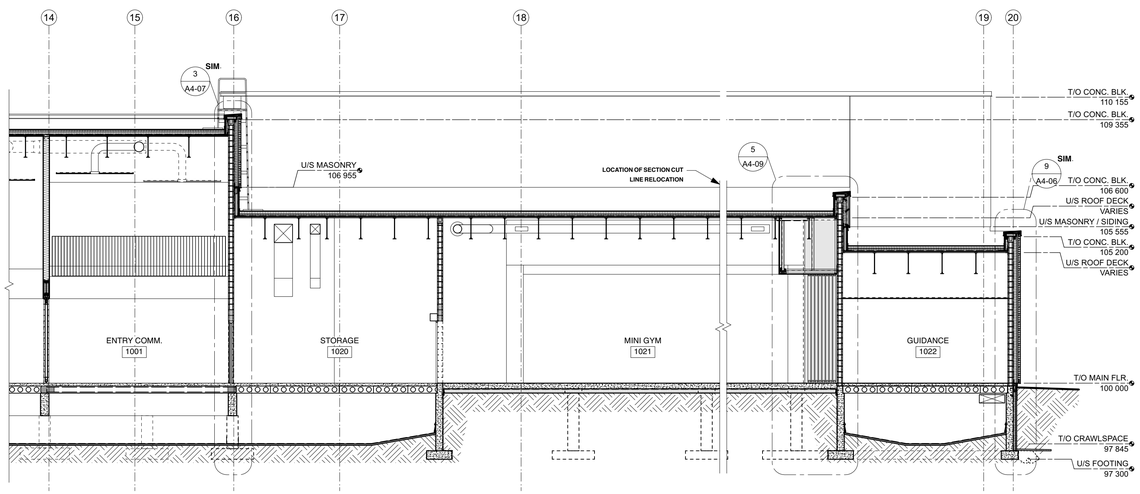

1 A4-03 N/S BLDG SCTN - CONTINUED
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PROVINCE OF MANITOBA
LINDSAY OSTER
2023-03-24
REGISTERED ARCHITECT

PROVINCE OF MANITOBA
PRAIRIE ARCHITECTS INC.
No. 029
APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

drawing information

BUILDING SECTIONS

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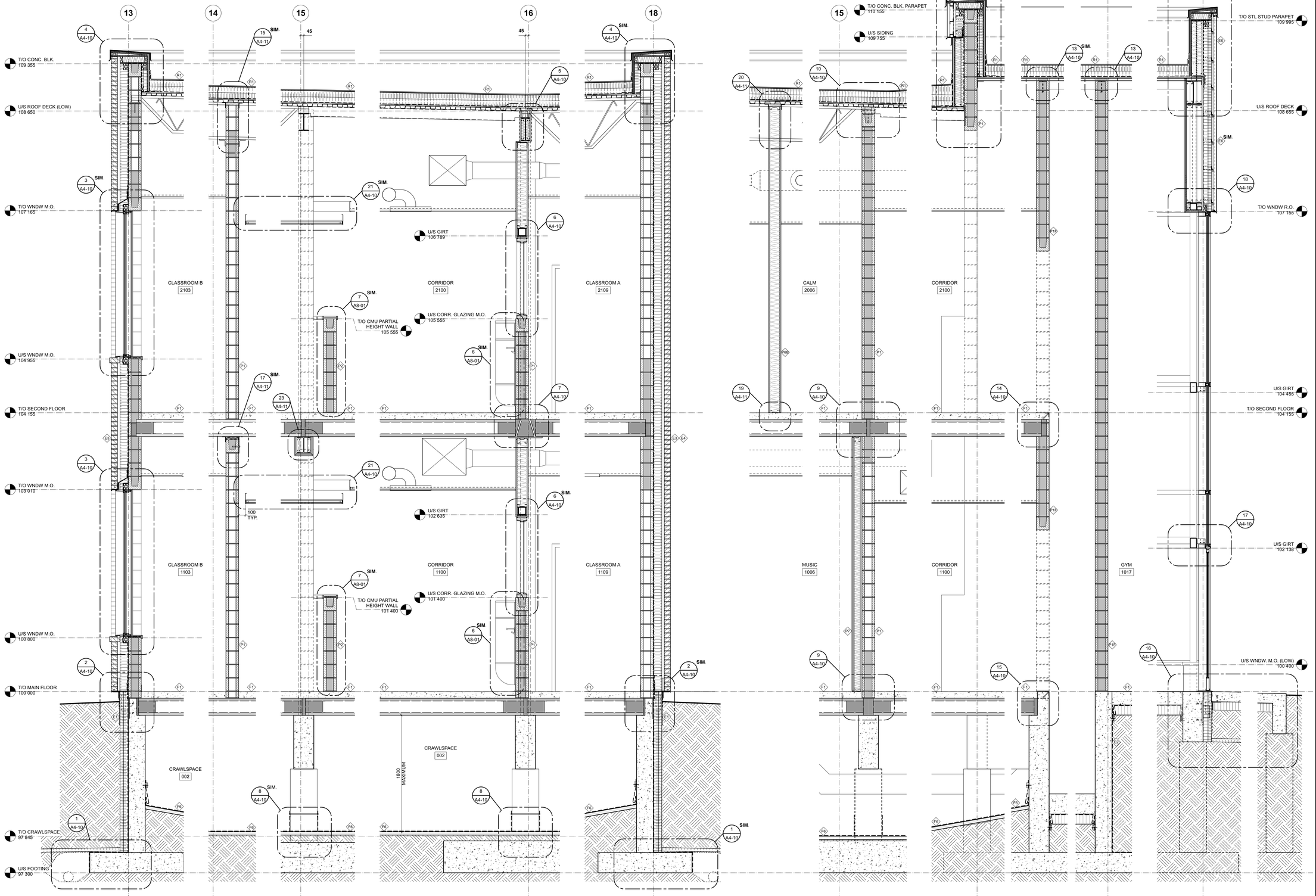
NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

A4 03



1 A4-04 WALL SECTION
Scale: 1:25

2 A4-04 WALL SECTION
Scale: 1:25

3 A4-04 WALL SECTION
Scale: 1:25

4 A4-04 WALL SECTION
Scale: 1:25

5 A4-04 WALL SECTION
Scale: 1:25

6 A4-04 WALL SECTION
Scale: 1:25

7 A4-04 WALL SECTION
Scale: 1:25

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LINDSAY OSTER
2023-03-24
REGISTERED ARCHITECT

PROVINCE OF MANITOBA
PRAIRIE ARCHITECTS INC.
No. 029
APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

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Hanover School Division
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Steinbach, MB

drawing information

WALL SECTIONS

drawn by: **KM**
approved by: **LO**

scale: **1:25**
date issued: **2023.03.24**
proj. #: **2021.49**
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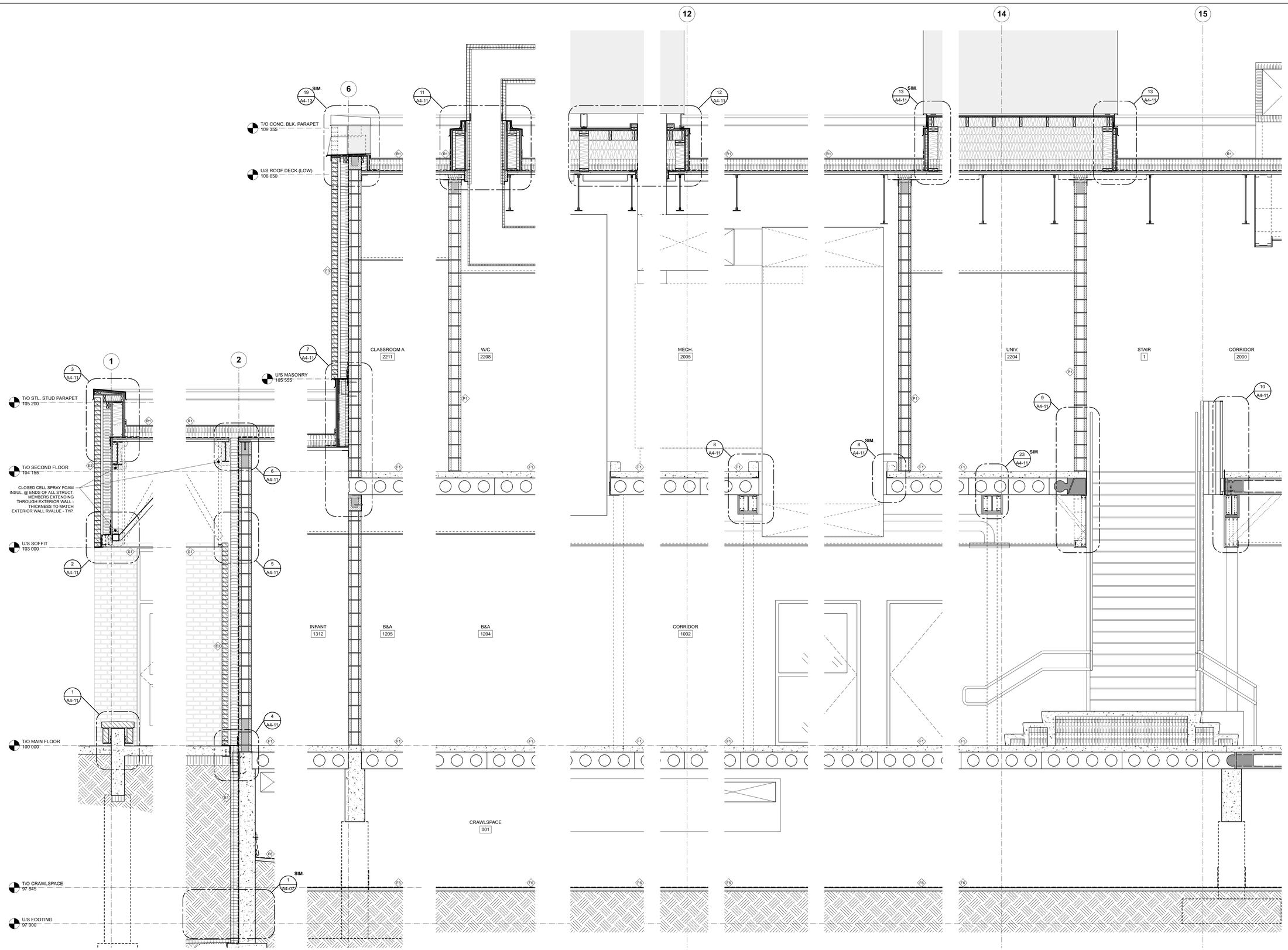
NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

A4 04



1 A4-05 WALL SECTION Scale: 1:25

2 A4-05 WALL SECTION Scale: 1:25

3 A4-05 WALL SECTION Scale: 1:25

4 A4-05 WALL SECTION Scale: 1:25

5 A4-05 WALL SECTION Scale: 1:25

6 A4-05 WALL SECTION Scale: 1:25

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PROVINCE OF MANITOBA
LINDSAY OSTER
2023-03-24
REGISTERED ARCHITECT

PROVINCE OF MANITOBA
PRAIRIE ARCHITECTS INC.
No. 025
APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

drawing information

WALL SECTIONS

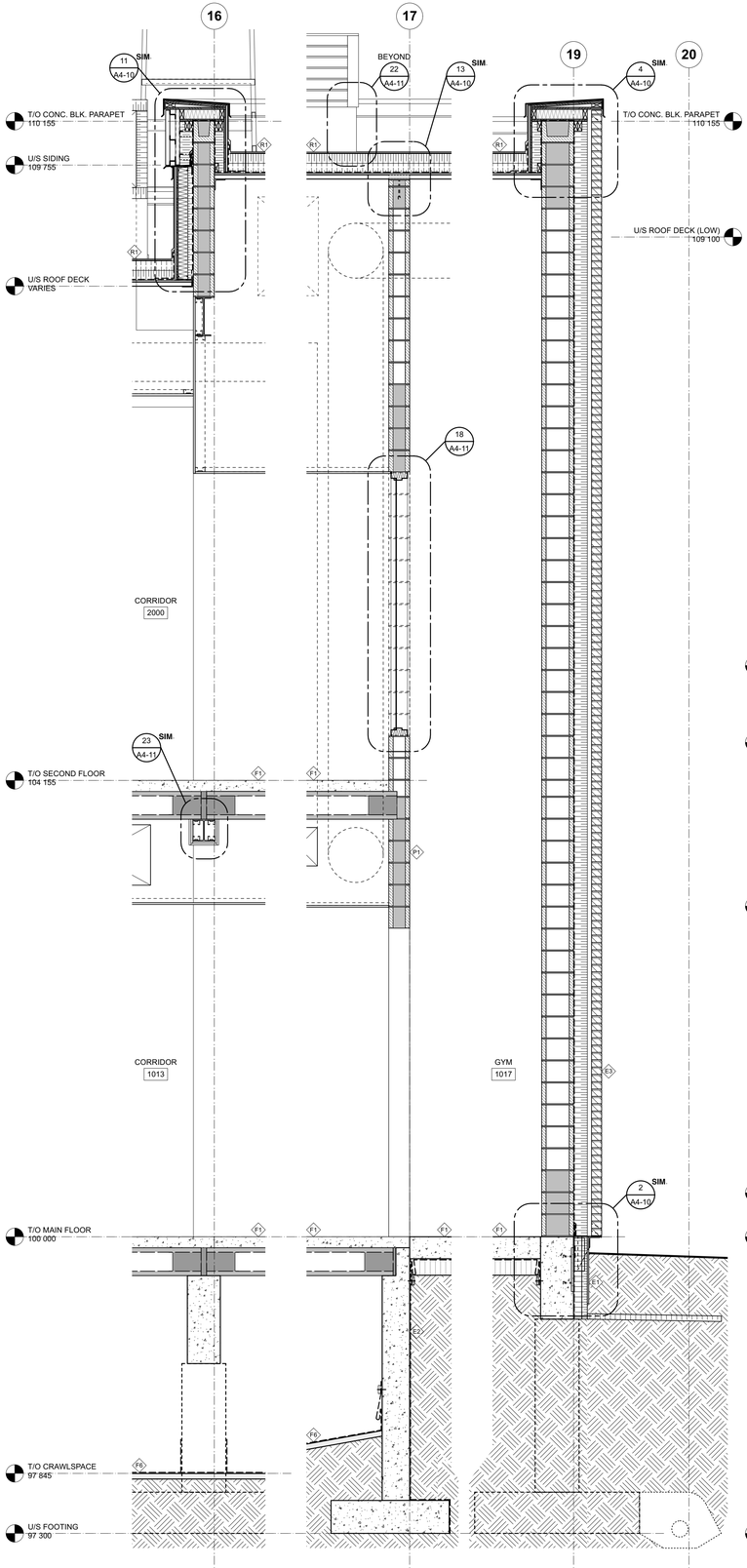
drawn by: **KM**
approved by: **LO**

scale: **1:25**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive, Steinbach, MB

A4 05



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Scale: 1:25

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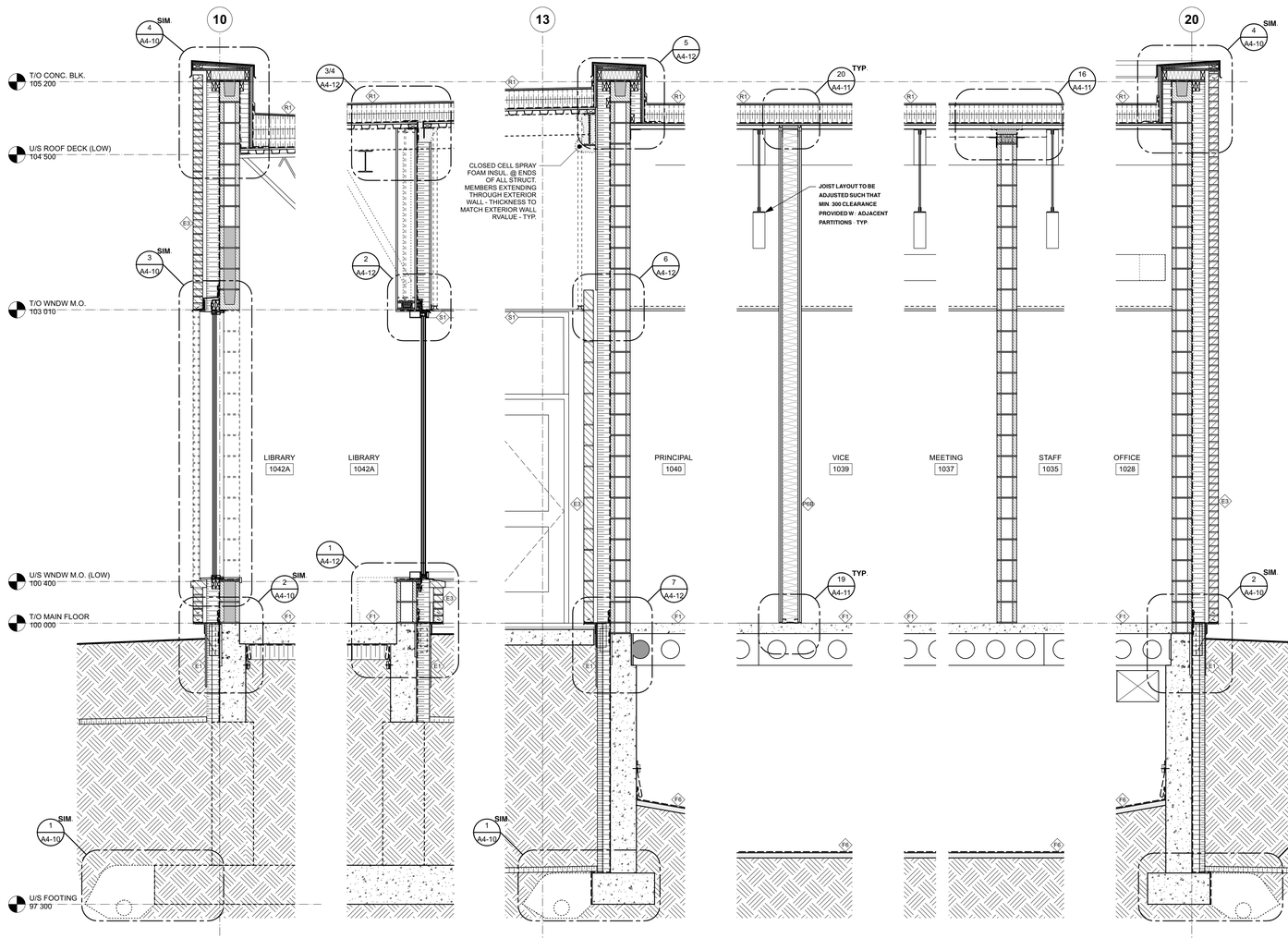
Scale: 1:25

3 A4-06 WALL SECTION
Scale: 1:25



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5 A4-06 WALL SECTION
Scale: 1:25

6 A4-06 WALL SECTION
Scale: 1:25

7 A4-06 WALL SECTION
Scale: 1:25

8 A4-06 WALL SECTION
Scale: 1:25

9 A4-06 WALL SECTION
Scale: 1:25

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issue / rev.

#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

PROVINCE OF MANITOBA
LINDSAY OSTER
2023-03-24
REGISTERED ARCHITECT

PROVINCE OF MANITOBA
PRAIRIE ARCHITECTS INC.
No. 026
APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

drawing information

WALL SECTIONS

drawn by: **KM**
approved by: **LO**

scale: **1:25**
date issued: **2023.03.24**
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NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

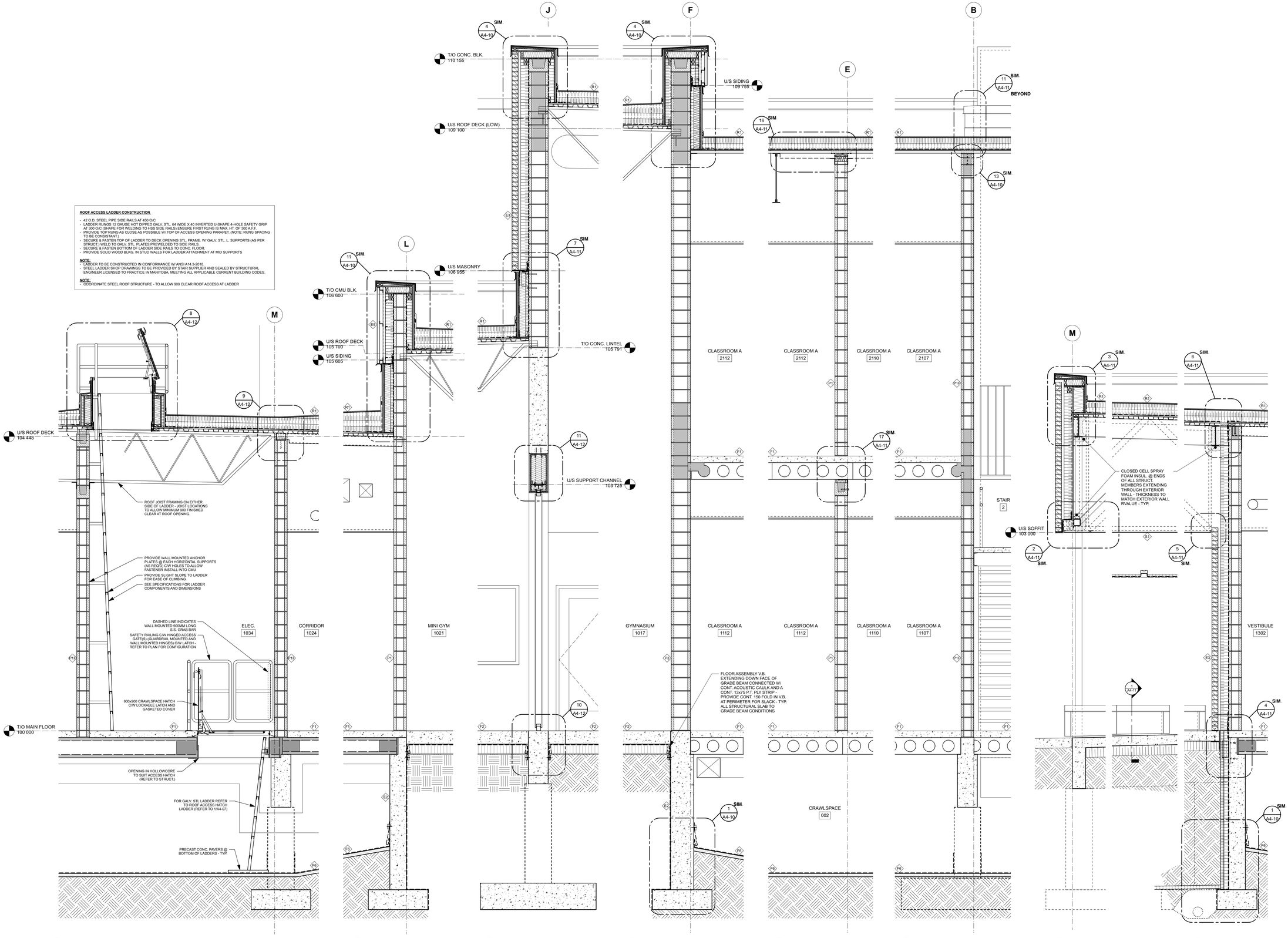
A4 06

ROOF ACCESS LADDER CONSTRUCTION

- 42 O.D. STEEL PIPE SIDE RAILS AT 450 O/C
- LADDER RUNGS 12 GAUGE HOT DIPPED GALV. STL. 64 WIDE X 40 INVERTED U-SHAPE 4-HOLE SAFETY GRIP AT 300 O/C (SHAPE FOR WELDING TO HSS SIDE RAILS) ENSURE FIRST RUNG IS MAX. HT. OF 300 A.F.F.
- PROVIDE TOP RUNG AS CLOSE AS POSSIBLE W/ TOP OF ACCESS OPENING PARAPET. (NOTE: RUNG SPACING TO BE CONSISTANT.)
- SECURE & FASTEN TOP OF LADDER TO DECK OPENING STL. FRAME. W/ GALV. STL. L. SUPPORTS (AS PER STRUCT.) WELD TO GALV. STL. PLATES PREWELDED TO SIDE RAILS.
- SECURE & FASTEN BOTTOM OF LADDER SIDE RAILS TO CONC. FLOOR.
- PROVIDE SOLID WOOD BLKG. IN STUD WALLS FOR LADDER ATTACHMENT AT MID SUPPORTS

NOTE:
- LADDER TO BE CONSTRUCTED IN CONFORMANCE W/ ANSI A14.3-2018.
- STEEL LADDER SHOP DRAWINGS TO BE PROVIDED BY STAIR SUPPLIER AND SEALED BY STRUCTURAL ENGINEER LICENSED TO PRACTICE IN MANITOBA, MEETING ALL APPLICABLE CURRENT BUILDING CODES.

NOTE:
- COORDINATE STEEL ROOF STRUCTURE - TO ALLOW 900 CLEAR ROOF ACCESS AT LADDER



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2 A4-07 WALL SECTION Scale: 1:25

3 A4-07 WALL SECTION Scale: 1:25

4 A4-07 WALL SECTION Scale: 1:25

5 A4-07 WALL SECTION Scale: 1:25

6 A4-07 WALL SECTION Scale: 1:25

7 A4-07 WALL SECTION Scale: 1:25

8 A4-07 WALL SECTION Scale: 1:25

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PROVINCE OF MANITOBA — LINDSAY OSTER — 2023-03-24 — REGISTERED ARCHITECT

PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. No. 026 — APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

drawing information

WALL SECTIONS

drawn by: **KM**
approved by: **LO**

scale: **1:25**
date issued: **2023.03.24**
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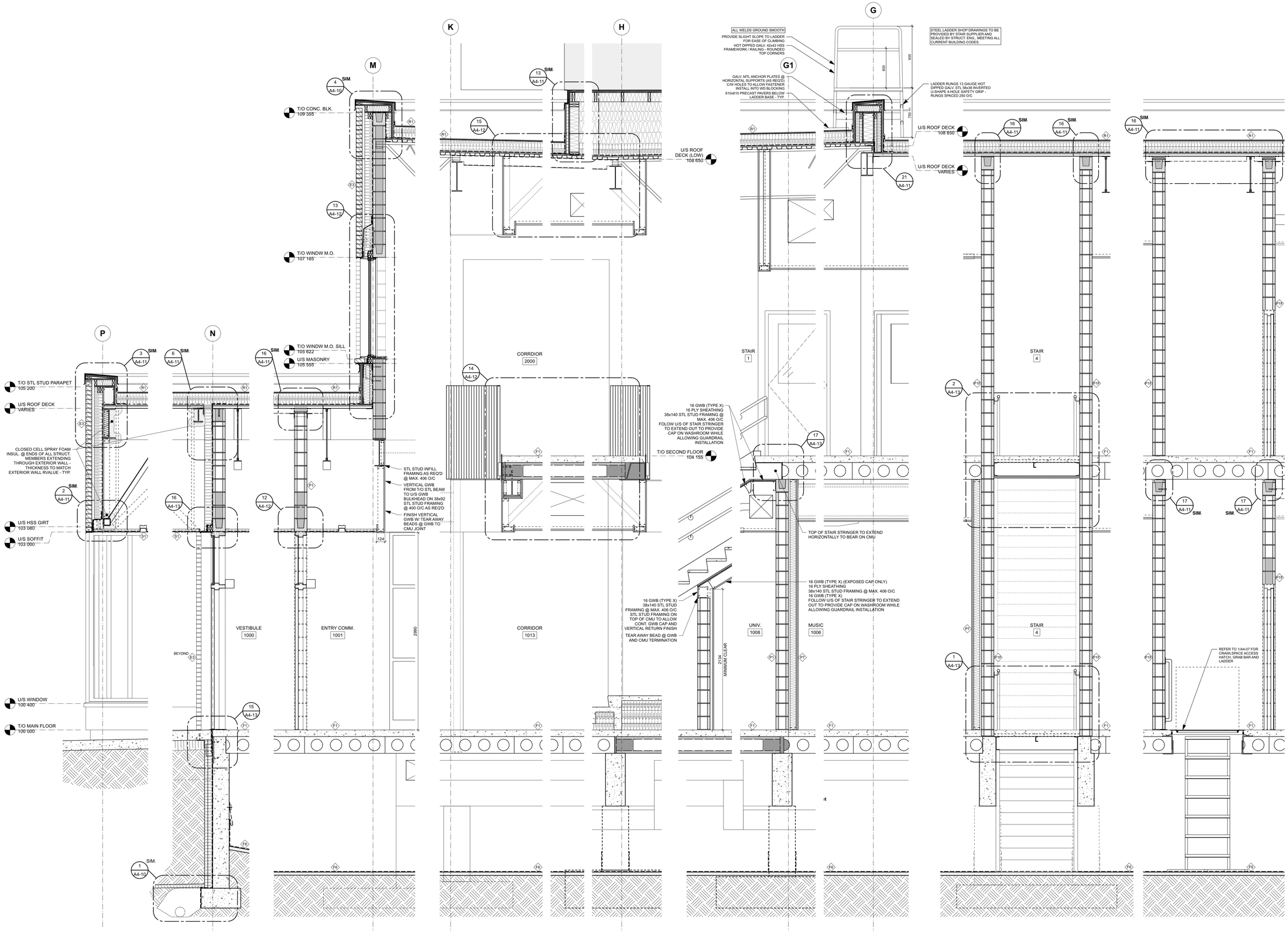
rev. #: **R-0**

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

A4 07



1 A4-08 WALL SECTION Scale: 1:25

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3 A4-08 WALL SECTION Scale: 1:25

4 A4-08 WALL SECTION Scale: 1:25

5 A4-08 WALL SECTION Scale: 1:25

6 A4-08 WALL SECTION Scale: 1:25

7 A4-08 WALL SECTION Scale: 1:25

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PROVINCE OF MANITOBA LINDSAY OSTER 2023-03-24 REGISTERED ARCHITECT

PROVINCE OF MANITOBA PRAIRIE ARCHITECTS INC. No. 029 APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

drawing information

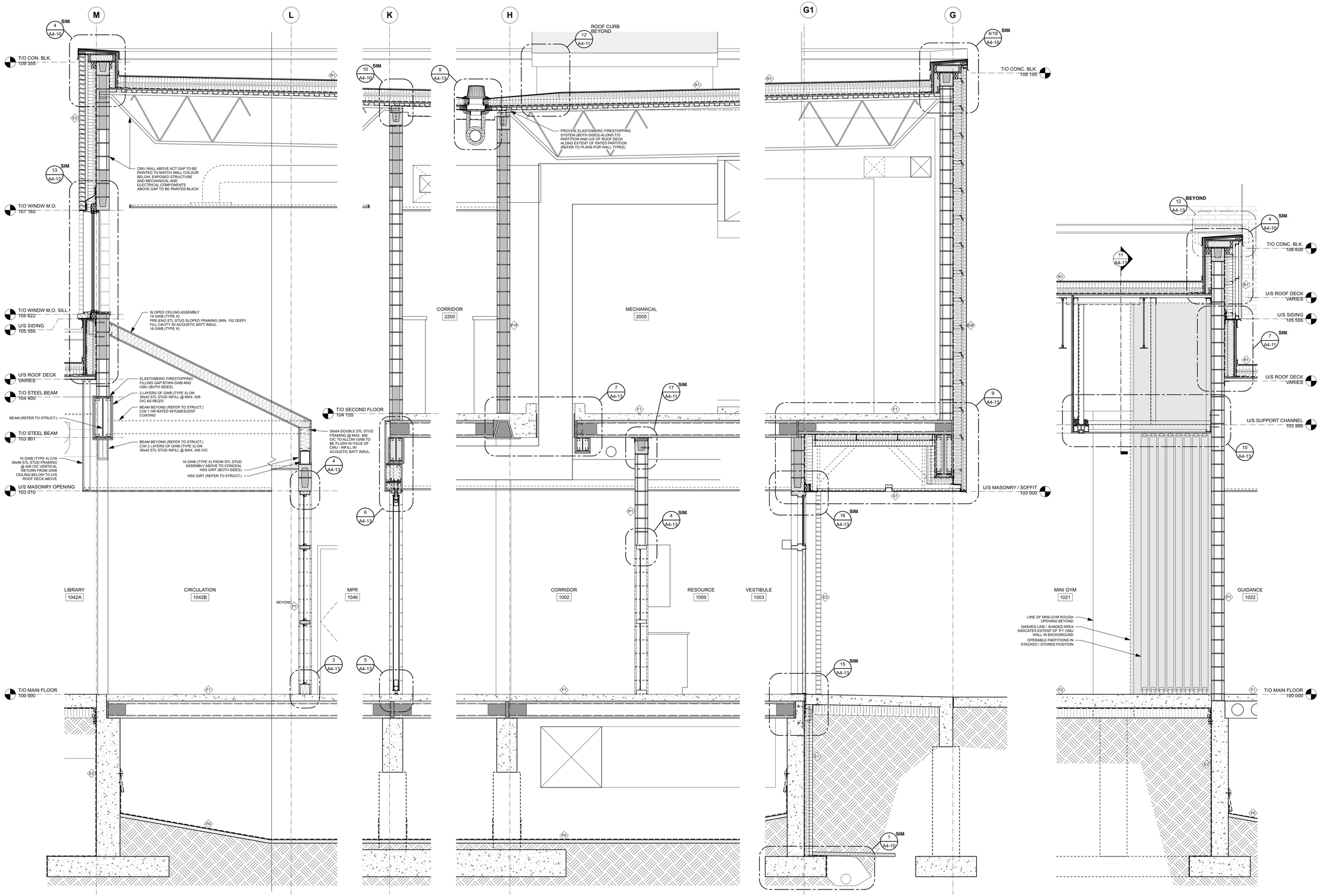
WALL SECTIONS

drawn by: KM
approved by: LO

scale: 1:25
date issued: 2023.03.24
proj. #: 2021.49
rev. #: R-0

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

A4 08



1 A4-09 WALL SECTION
Scale: 1:25

2 A4-09 WALL SECTION
Scale: 1:25

3 A4-09 WALL SECTION
Scale: 1:25

4 A4-09 WALL SECTION
Scale: 1:25

5 A4-09 WALL SECTION
Scale: 1:25

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LINDSAY OSTER
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project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

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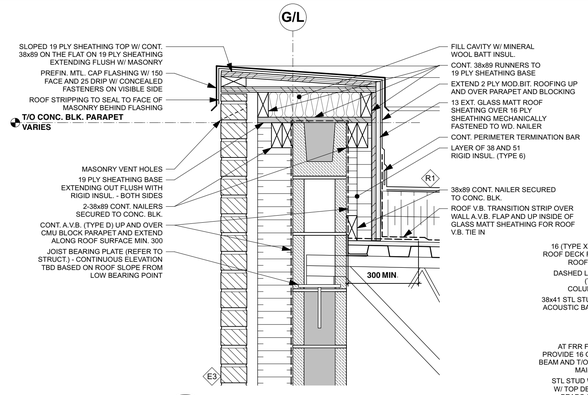
A4 09



4 A4-10 TYP. MASONRY PARAPET
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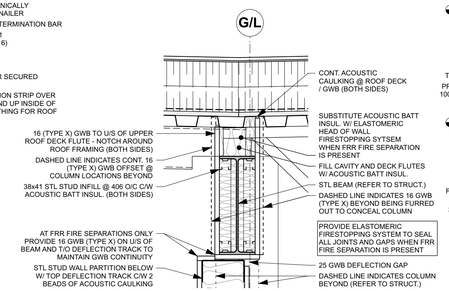

5 A4-10 TYP. ROOF BEAM ACOUSTIC TREATMENT
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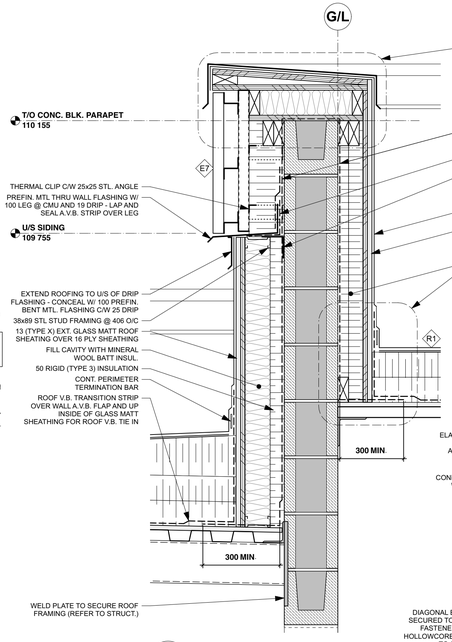
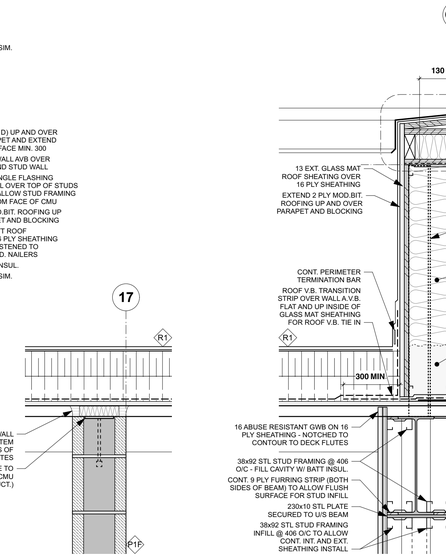


11 A4-10 SCHOOL TO GYM ROOF
Scale: 1:10



13 A4-10 CMU TO ROOF DECK
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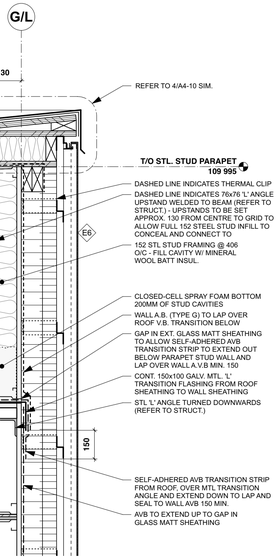

19 A4-10 TYP. MTL CLAD PARAPET
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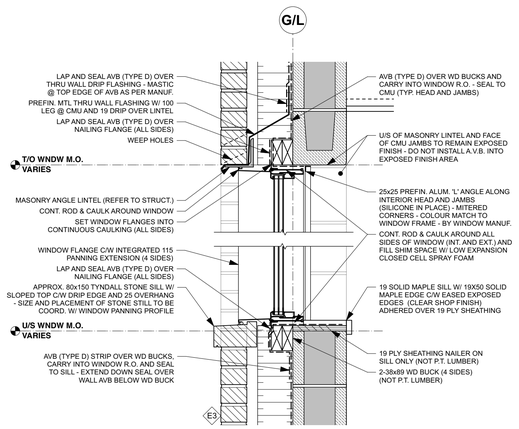

3 A4-10 TYP. WINDOW HEAD & SILL
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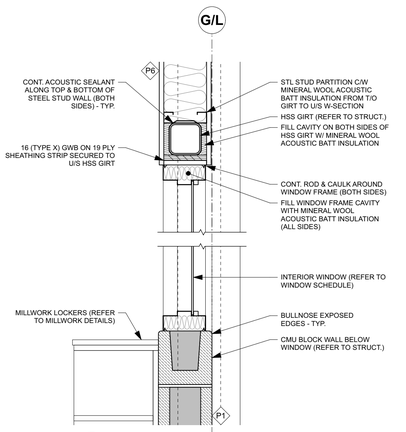

6 A4-10 TYP. CORRIDOR GLAZING
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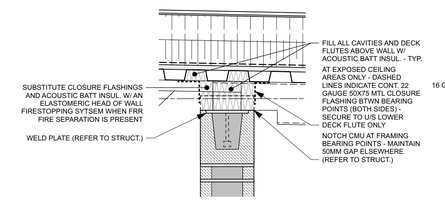

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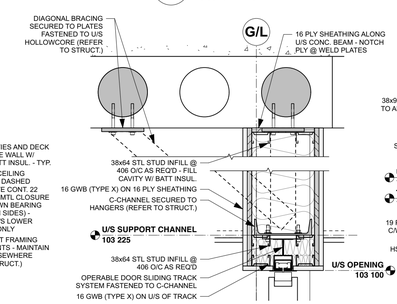

12 A4-10 B&A OVERHEAD PARTITION
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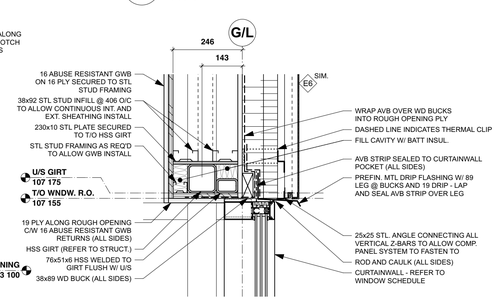
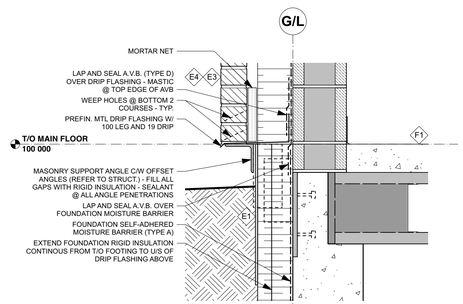


18 A4-10 TYP. CURTAINWALL HEAD / COMP. MTL PANEL
Scale: 1:10



2 A4-10 TYP. MASONRY BASE
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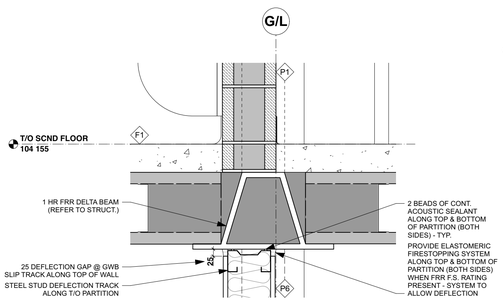

7 A4-10 TYP. PARTITION @ DELTA BEAM
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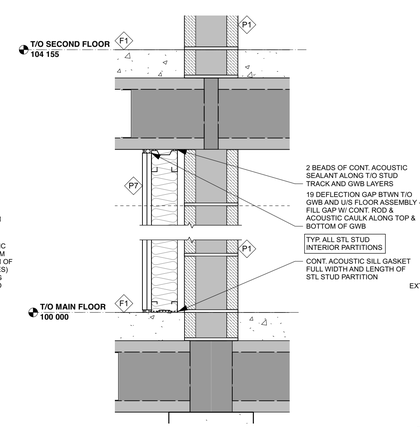
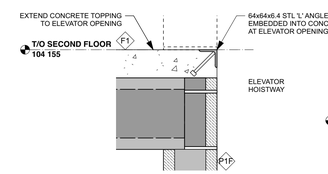
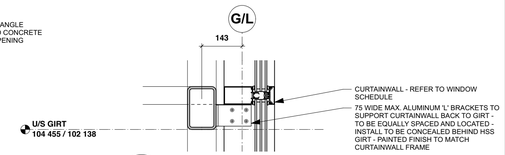


9 A4-10 STL STUD PARTITION HEAD/SILL
Scale: 1:10



14 A4-10 ELEV. @ SECOND FLR
Scale: 1:10



17 A4-10 TYP. CURTAINWALL SUPPORT
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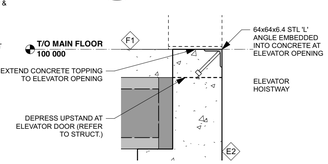
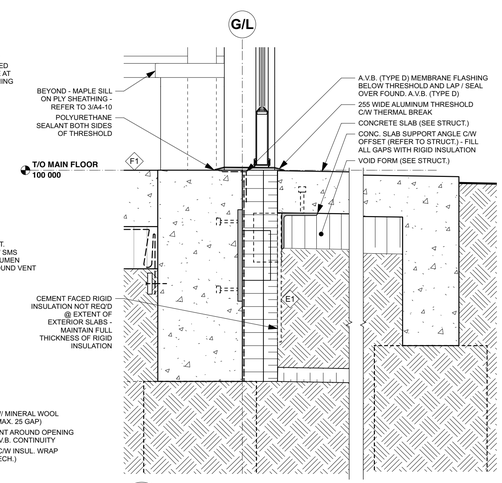


15 A4-10 ELEV. @ MAIN FLR
Scale: 1:10



16 A4-10 TYP. EXT. SLAB @ ALUM. DOOR THRESHOLD
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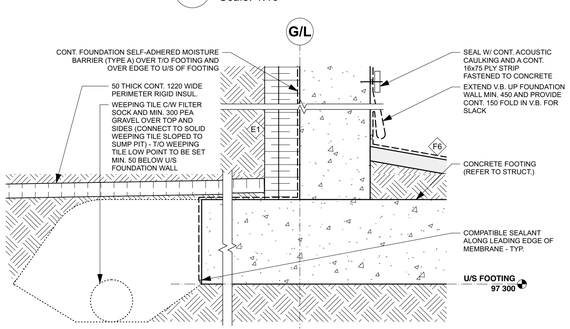

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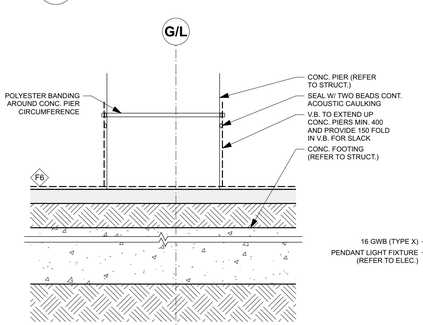
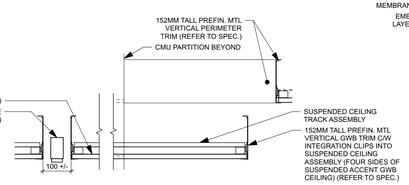
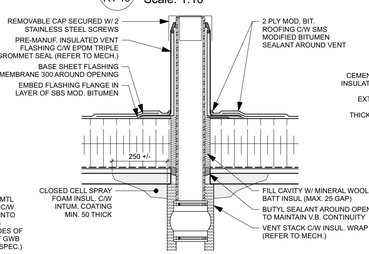
Scale: 1:10



8 A4-10 TYP. CONCRETE PIER / V.B. TIE-IN
Scale: 1:10



21 A4-10 TYP. CLASSROOM ENT. CEILING
Scale: 1:10



20 A4-10 TYP. VENT PIPE FLASHING
Scale: 1:10

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PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. No. 026 — REGISTERED ARCHITECTURAL CORPORATION

project information

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91 Parkland Drive
Steinbach, MB
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Hanover School Division
5 Chrysler Gate
Steinbach, MB

drawing information

SECTION DETAILS

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approved by:	LO
scale:	1:25
date issued:	2023.03.24
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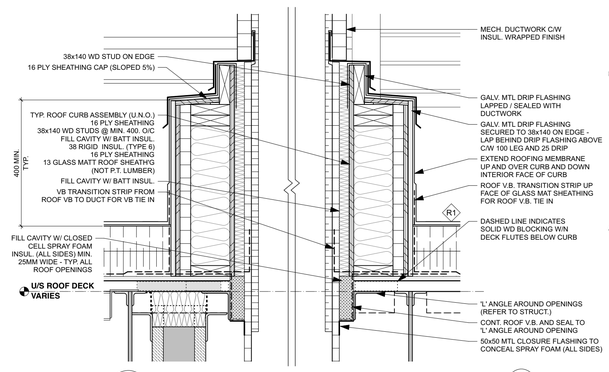
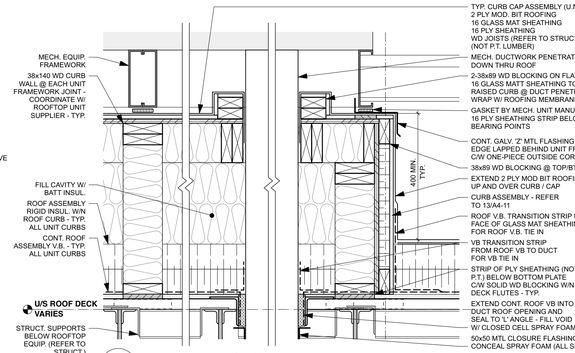
NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

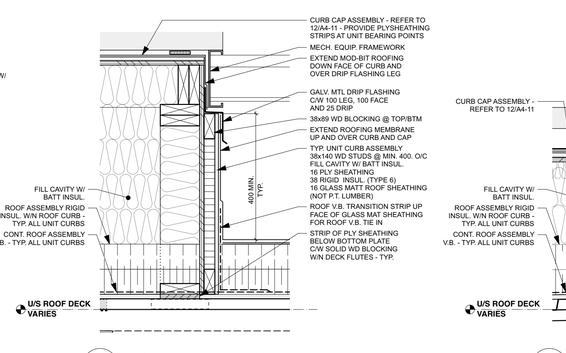
A4 10



11 A4-11 TYP. ROOF CURB @ ROOF PENETRATIONS
Scale: 1:10



12 A4-11 RF-3 CURB C/W CAP
Scale: 1:10



13 A4-11 TYP. ERV-1 AND 2 CURB
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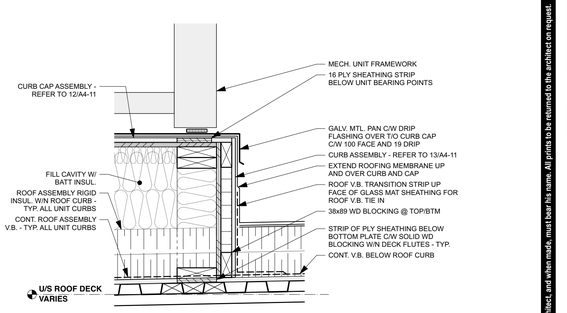

14 A4-11 ASHP CURB C/W CAP
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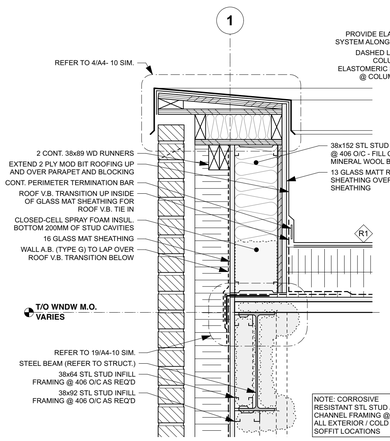
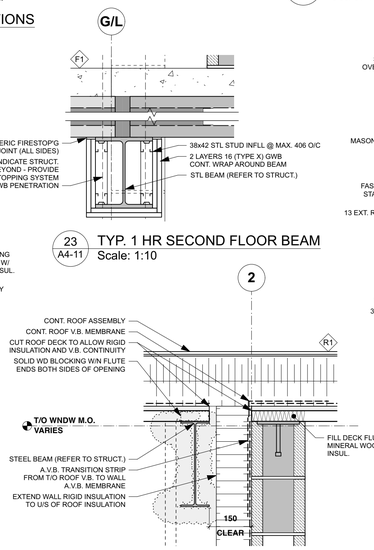
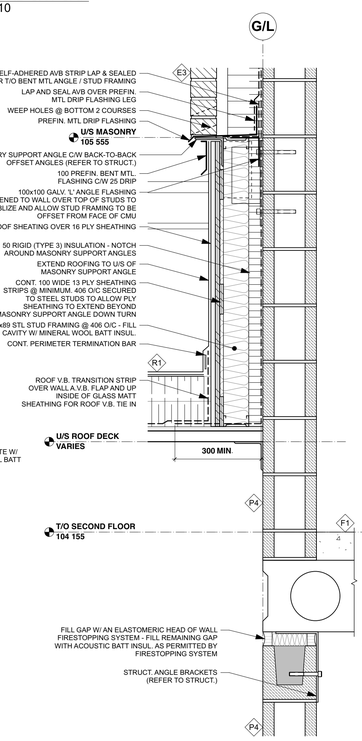


3 A4-11 DAYCARE ENTRANCE PARAPET
Scale: 1:10

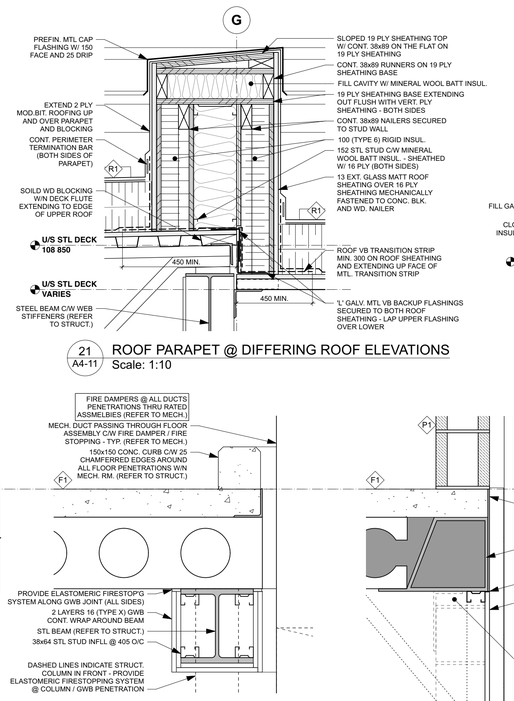


23 A4-11 TYP. 1 HR SECOND FLOOR BEAM
Scale: 1:10

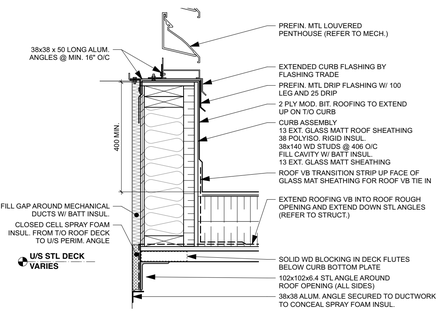
6 A4-11 ENTRANCE SOFFITT WALL/ROOF
Scale: 1:10



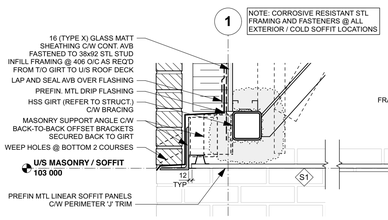
7 A4-11 MASONRY WALL TO ROOF
Scale: 1:10



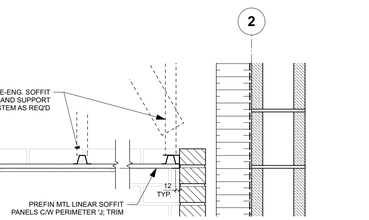
21 A4-11 ROOF PARAPET @ DIFFERING ROOF ELEVATIONS
Scale: 1:10



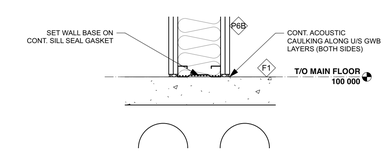
22 A4-11 TYP. LOUVERED PENTHOUSE CURB
Scale: 1:10



2 A4-11 ENTRANCE SOFFIT - TYP.
Scale: 1:10



5 A4-11 TYP. SOFFIT @ MASONRY
Scale: 1:10



19 A4-11 TYP. STL STUD BASE
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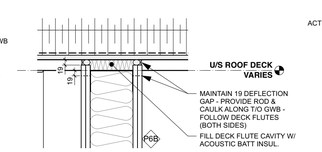
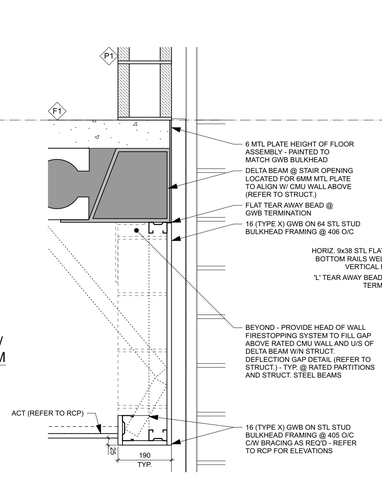
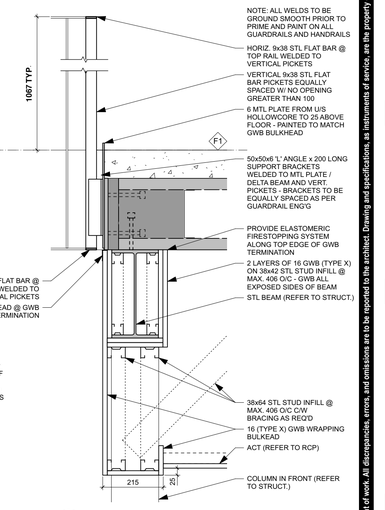


20 A4-11 TYP. T/O STL STUD
Scale: 1:10

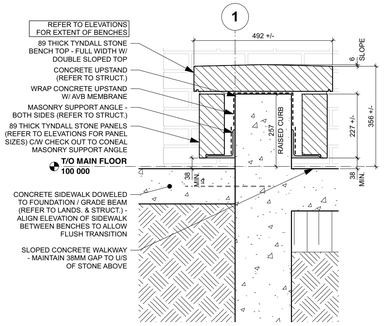
TYP. SECOND FLOOR OPENING /
TYP. 1 HR SECOND FLOOR BEAM
8 A4-11
Scale: 1:10



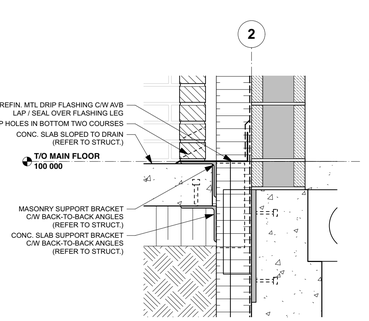
9 A4-11 DELTA BEAM / BULKHEAD @ STAIR
Scale: 1:10



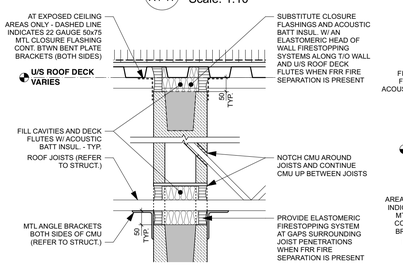
10 A4-11 GUARDRAIL @ STAIR OPENING
Scale: 1:10



1 A4-11 DAYCARE TYNDALL BENCH
Scale: 1:10



4 A4-11 TYP. ENT. SLAB @ MASONRY BASE
Scale: 1:10



15 A4-11 TYP. CMU TO PERPENDICULAR JOISTS
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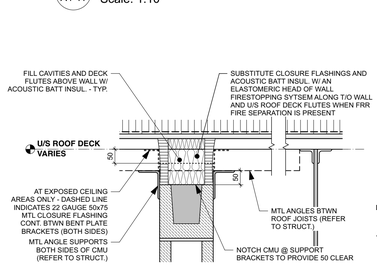

16 A4-11 TYP. CMU TO PARALLEL JOISTS
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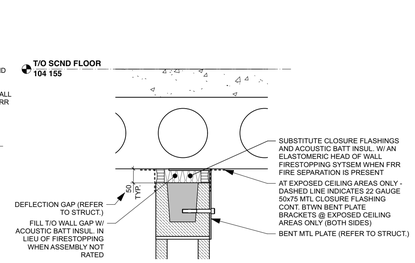

17 A4-11 TYP. CMU TO HOLLOWCORE
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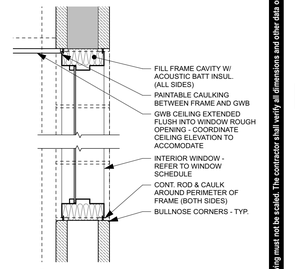

18 A4-11 INTERIOR CMU WINDOW
Scale: 1:10

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issue / rev.

#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

PROVINCE OF MANITOBA — LINDSAY OSTER — 2023-03-24 — REGISTERED ARCHITECT

PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. — No. 028 — APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

drawing information

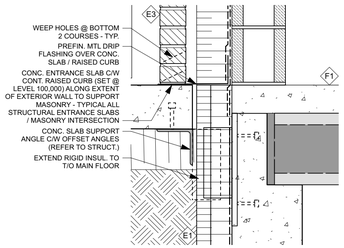
SECTION DETAILS

drawn by: KM
approved by: LO

scale: 1:25
date issued: 2023.03.24
proj. #: 2021.49
rev. #: R-0

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

A4
11



16 A4-12 ENTRANCE SLAB @ MASONRY
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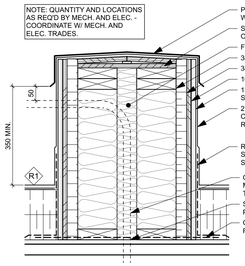

18 A4-12 TYP. UTILITY RAISED CURB
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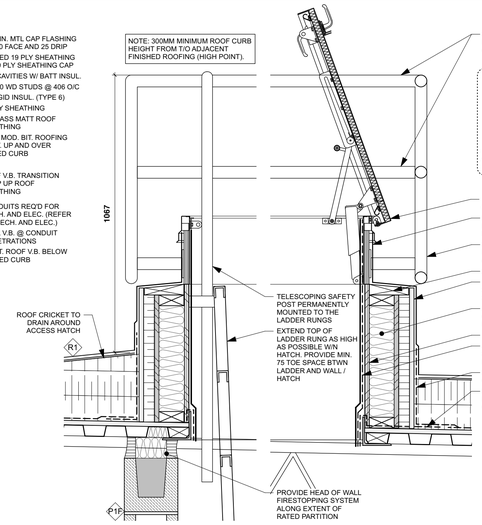

8 A4-12 ROOF ACCESS HATCH - TYP.
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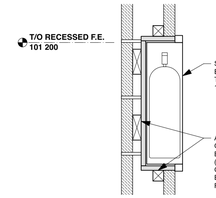

17 A4-12 RECESSED EXTINGUISHER CAB. - TYP.
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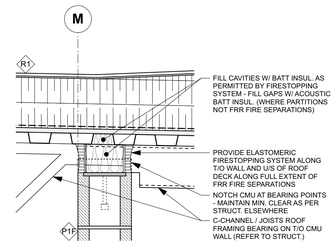

9 A4-12 T/O CORRIDOR BEARING WALL - TYP.
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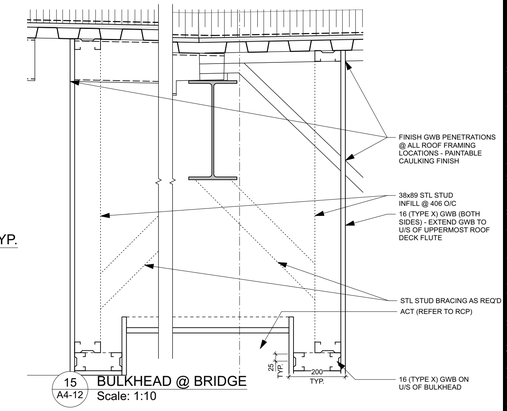

15 A4-12 BULKHEAD @ BRIDGE
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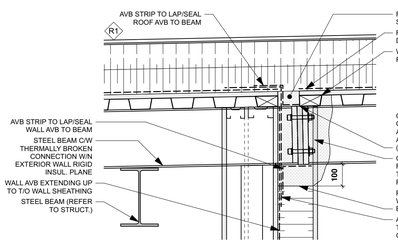

4 A4-12 CURVED WALL @ THERMAL CONNECTION
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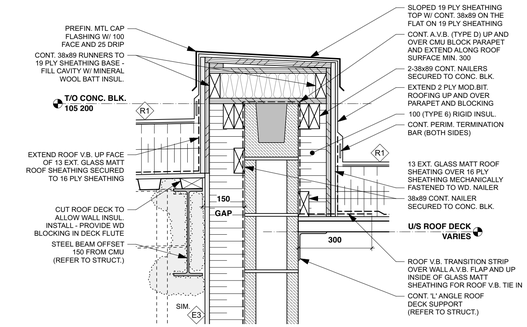

5 A4-12 INTERNAL PARAPET
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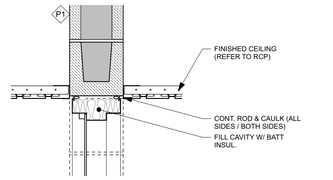

12 A4-12 INT. HOLLOW METAL DOOR FRAME
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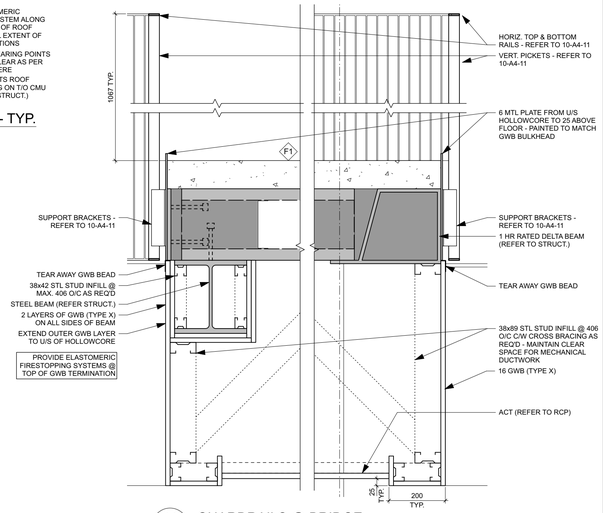
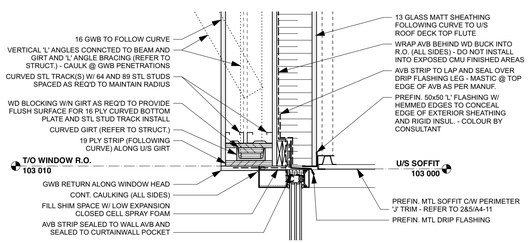


14 A4-12 GUARDRAILS @ BRIDGE
Scale: 1:10



2 A4-12 CURVED WALL WINDOW HEAD
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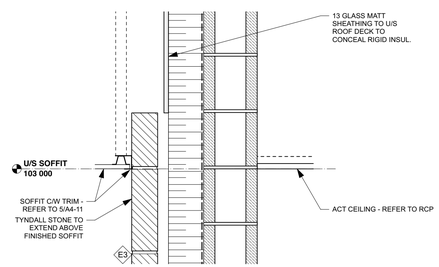
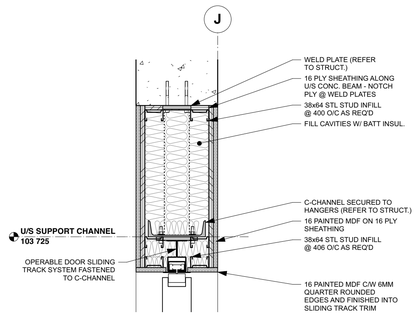
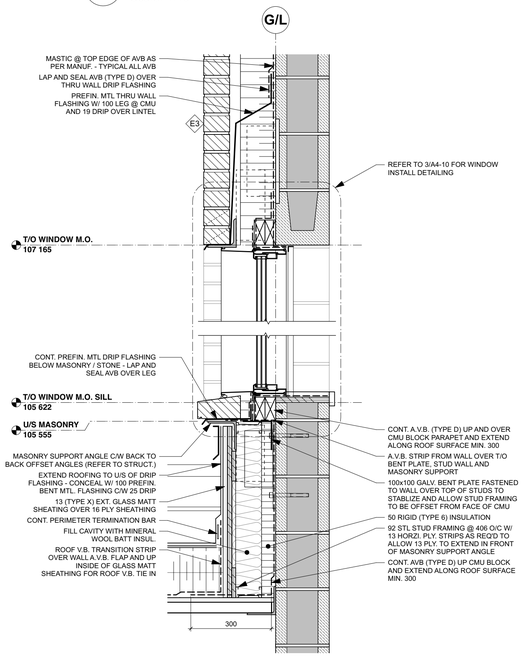


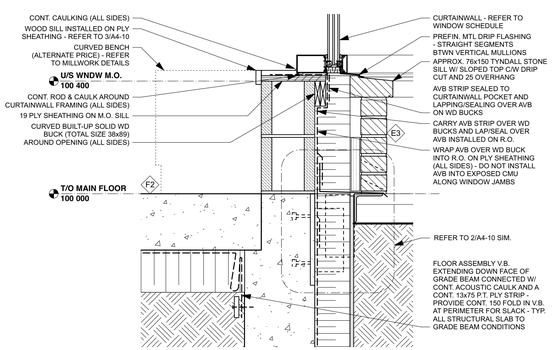
6 A4-12 ENTRANCE SOFFIT / TYNDALL STONE
Scale: 1:10



11 A4-12 MINI-GYM OPERABLE DOOR HEAD
Scale: 1:10



13 A4-12 CLERESTORY WINDOW - TYP.
Scale: 1:10



1 A4-12 CURVED WALL WINDOW BASE
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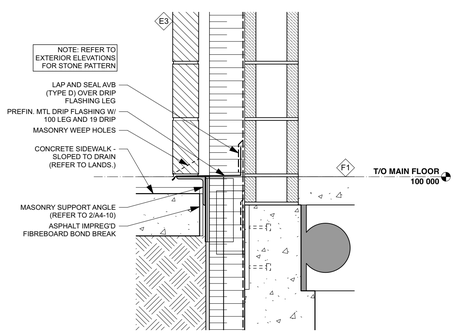

7 A4-12 ENTRANCE SIDEWALK / MASONRY
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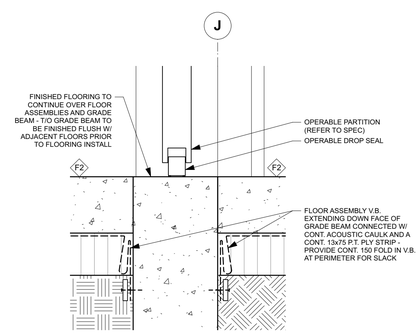

10 A4-12 MINI-GYM OPERABLE DOOR BOTTOM
Scale: 1:10

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issue / rev.

#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

PROVINCE OF MANITOBA — LINDSAY OSTER — 2023-03-24 — REGISTERED ARCHITECT

PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. No. 025 — APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

drawing information

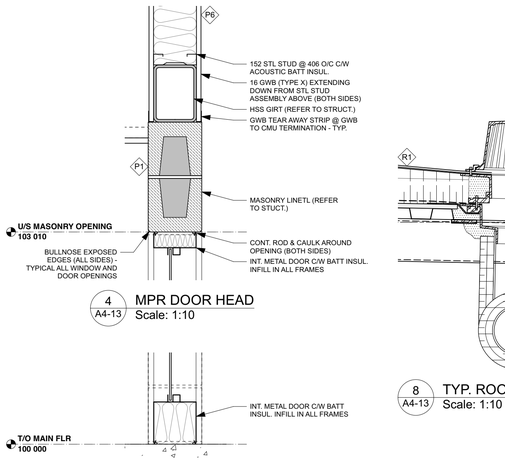
SECTION DETAILS

drawn by: **KM**
approved by: **LO**

scale: **1:25**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

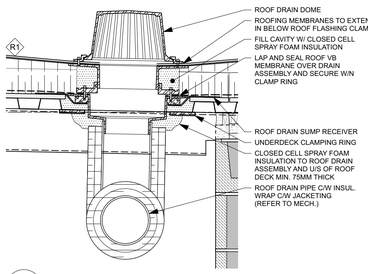
NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

A4 12



4 A4-13 MPR DOOR HEAD
Scale: 1:10

3 A4-13 MPR DOOR SIDELIGHT BASE
Scale: 1:10



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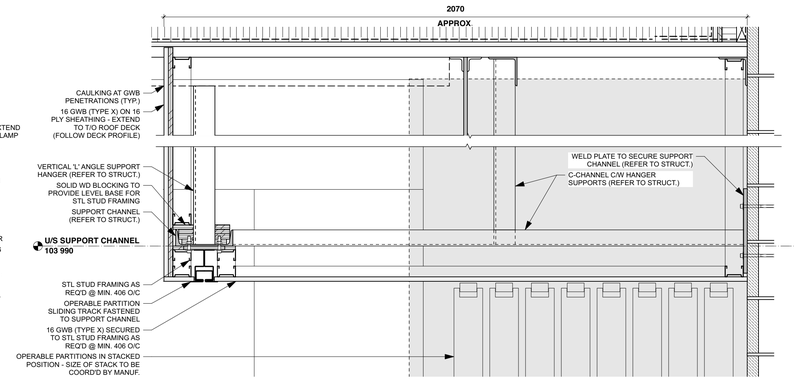

10 A4-13 OPERABLE PARTITION STORAGE
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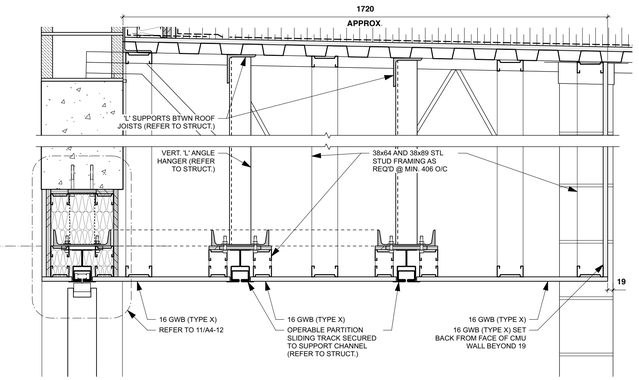
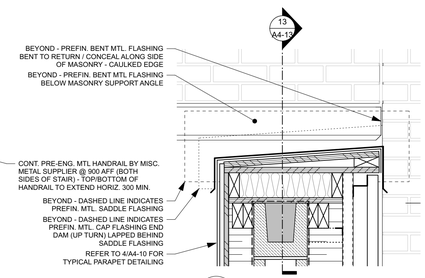


11 A4-13 OPERABLE PARTITION STORAGE
Scale: 1:10



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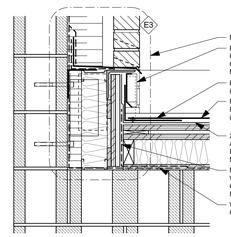
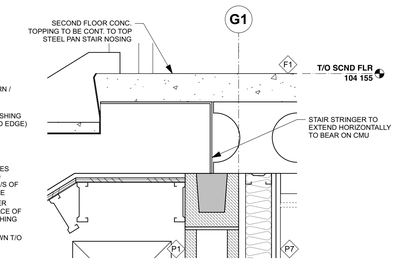
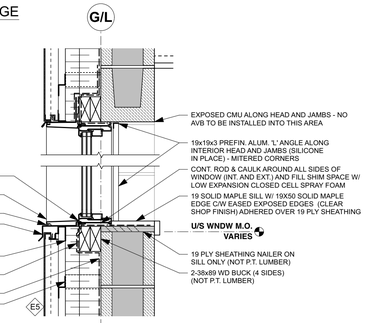
Scale: 1:10



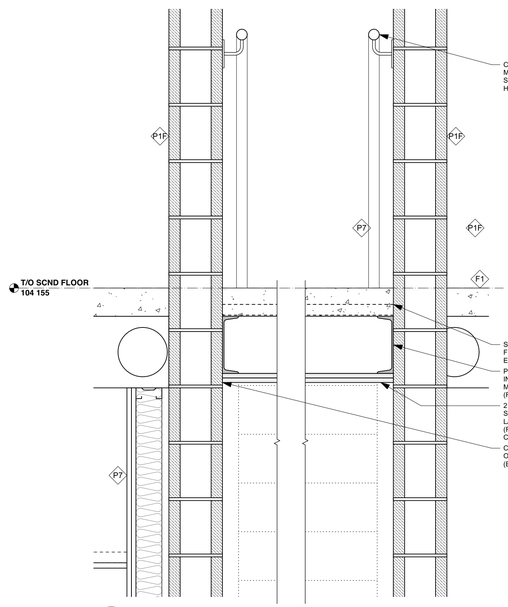
13 A4-13 PARAPET TO HIGH WALL SCTN
Scale: 1:10



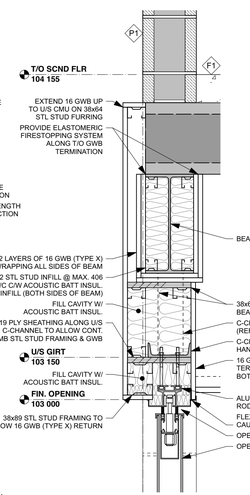
17 A4-13 T/O STAIR 1 TO CMU PARTITION
Scale: 1:10



18 A4-13 TYP. WINDOW @ COMP. METAL PANEL
Scale: 1:10



2 A4-13 SCND FLOOR EXIT STAIR
Scale: 1:10



6 A4-13 MPR OPERABLE DOOR BASE
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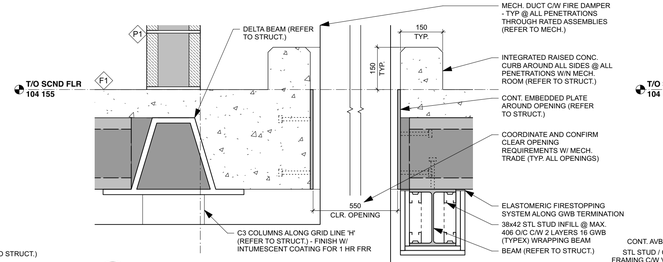
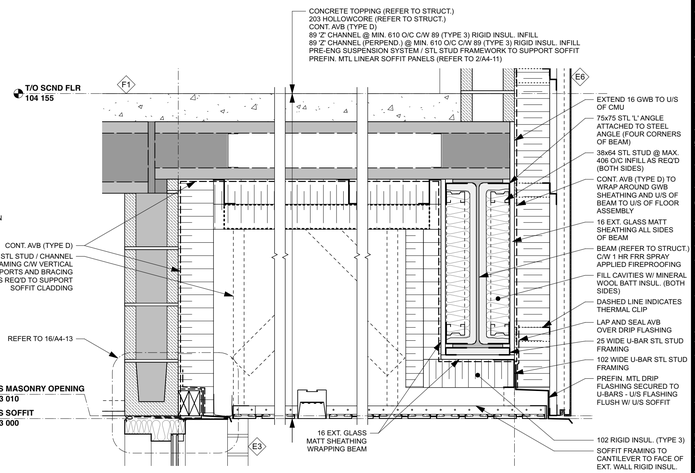


7 A4-13 DUCT THRU FLOOR ASSEMBLY
Scale: 1:10



9 A4-13 REAR ENTRANCE SOFFIT
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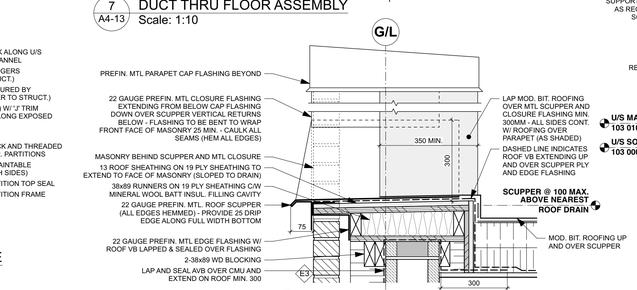

19 A4-13 TYP. ROOF SCUPPER
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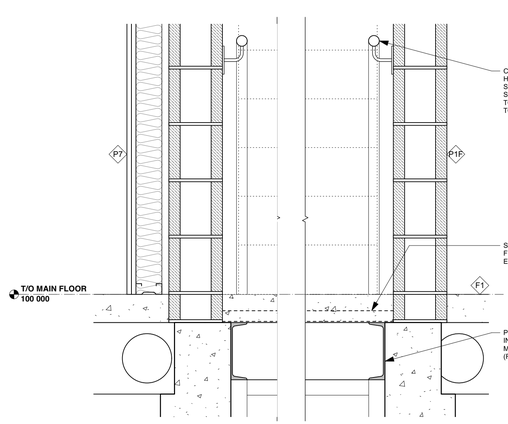
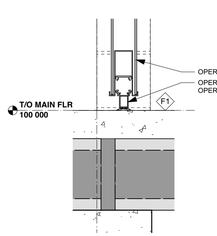
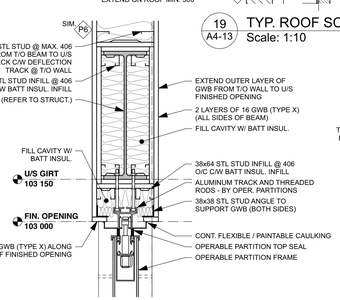


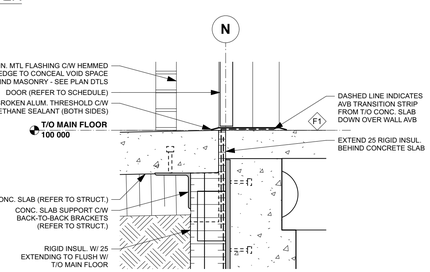
1 A4-13 MAIN FLOOR CRAWLSPACE STAIR
Scale: 1:10



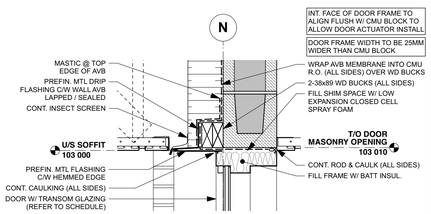
5 A4-13 MPR OPERABLE DOOR BASE
Scale: 1:10



14 A4-13 MPR OPERABLE DOOR @ 2 STOREY
Scale: 1:10



15 A4-13 TYP. ENT. DOOR / SLAB
Scale: 1:10



16 A4-13 TYP. ENTRANCE DOOR HEAD
Scale: 1:10

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#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

PROVINCE OF MANITOBA — LINDSAY OSTER — 2023-03-24 — REGISTERED ARCHITECT

PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. — No. 028 — APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

drawing information

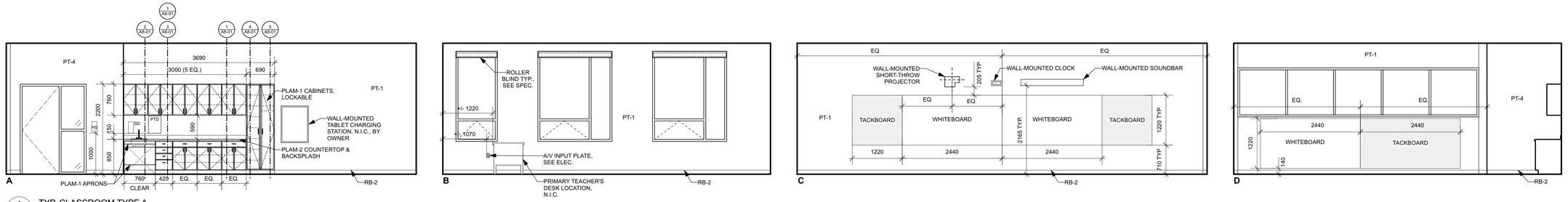
SECTION DETAILS

drawn by: KM
approved by: LO

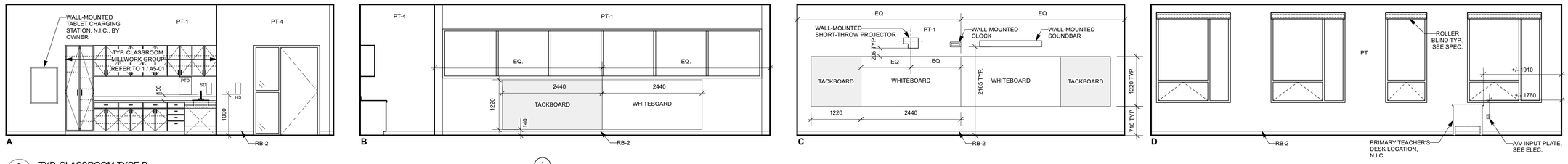
scale: 1:25
date issued: 2023.03.24
proj. #: 2021.49
rev. #: R-0

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

A4 13



1 A5-01 TYP. CLASSROOM TYPE A
Scale: 1:50
NOTE: CONFIRM FINAL LOCATION OF A/V EQUIPMENT W/ OWNER AND MANUF. INSTRUCTIONS.



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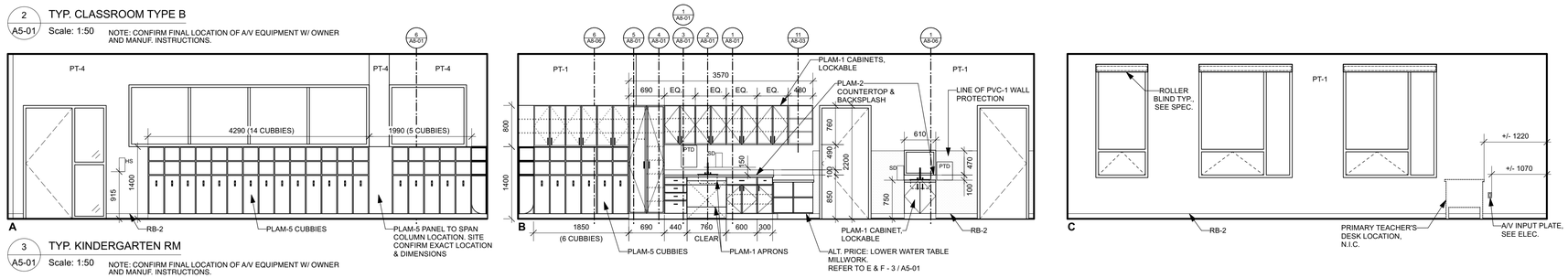

3 A5-01 TYP. KINDERGARTEN RM
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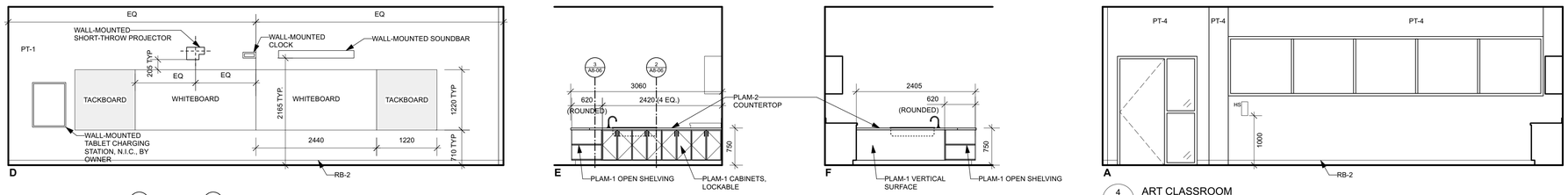

4 A5-01 ART CLASSROOM
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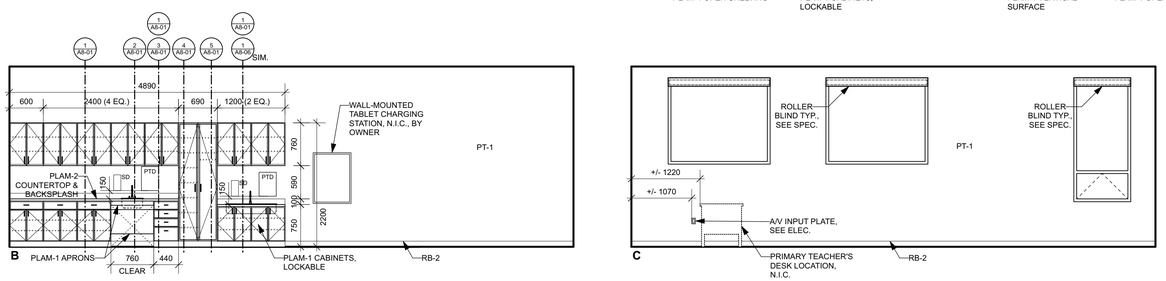

5 A5-01 MPR 1106
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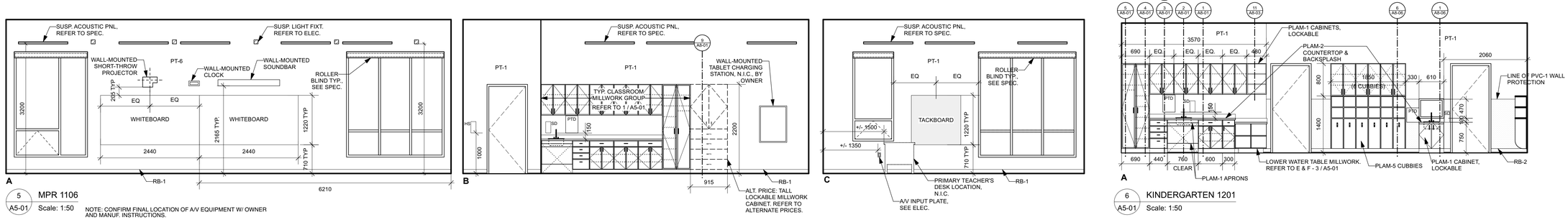

6 A5-01 KINDERGARTEN 1201
Scale: 1:50

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#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

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PROVINCE OF MANITOBA — LINDSAY OSTER — 2023-03-24 — REGISTERED ARCHITECT

PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. — No. 029 — APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

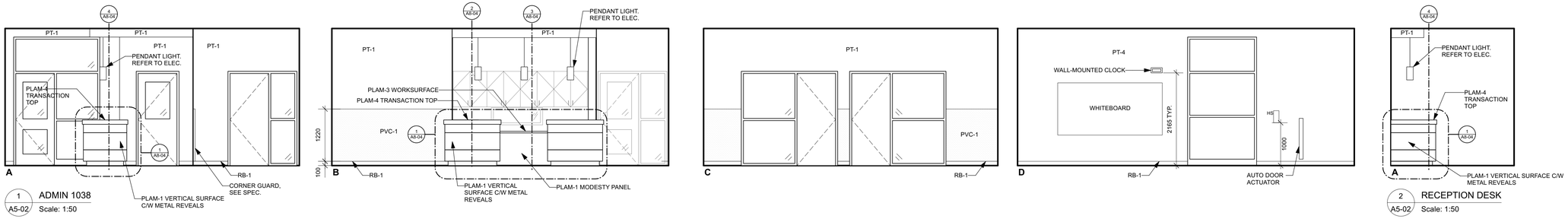
drawing information

INTERIOR ELEVATIONS

drawn by:	ER
approved by:	LO
scale:	1:50
date issued:	2023.03.24
proj. #:	2021.49
rev. #:	R-0

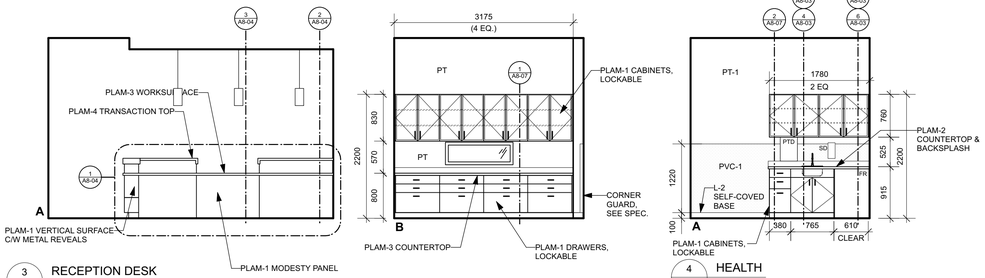
NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB, Canada

A5 01



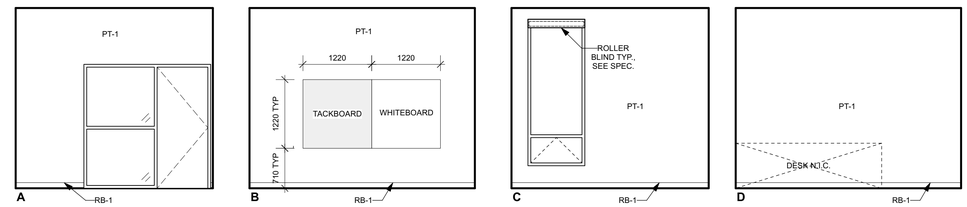
1 A5-02 ADMIN 1038
Scale: 1:50

2 A5-02 RECEPTION DESK
Scale: 1:50



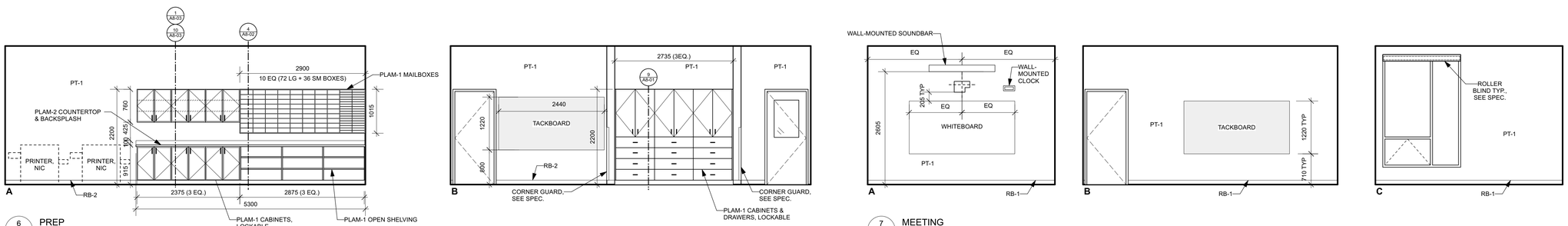
3 A5-02 RECEPTION DESK
Scale: 1:50

4 A5-02 HEALTH
Scale: 1:50



5 A5-02 PRINCIPAL
Scale: 1:50

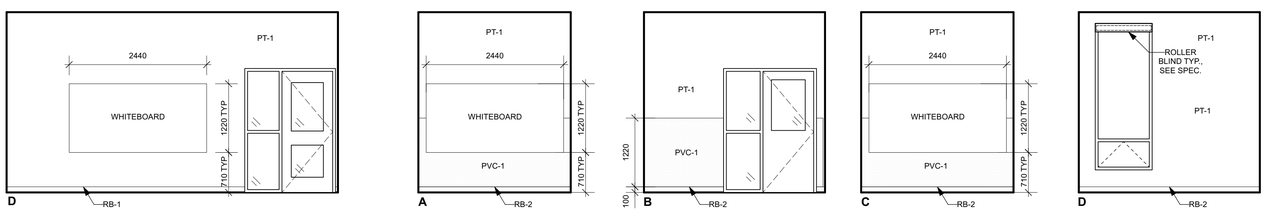
NOTE: VICE PRINCIPAL OFFICE SIMILAR



6 A5-02 PREP
Scale: 1:50

7 A5-02 MEETING
Scale: 1:50

NOTE: CONFIRM FINAL LOCATION OF A/V EQUIPMENT W/ OWNER AND MANUF. INSTRUCTIONS.



8 A5-02 SLP
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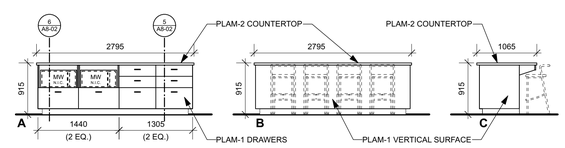

9 A5-02 STAFF ROOM ISLAND
Scale: 1:50

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1	2023.03.24	ISSUED FOR CONSTRUCTION

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PROVINCE OF MANITOBA — LINDSAY OSTER — 2023-03-24 — REGISTERED ARCHITECT

PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. — No. 028 — APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

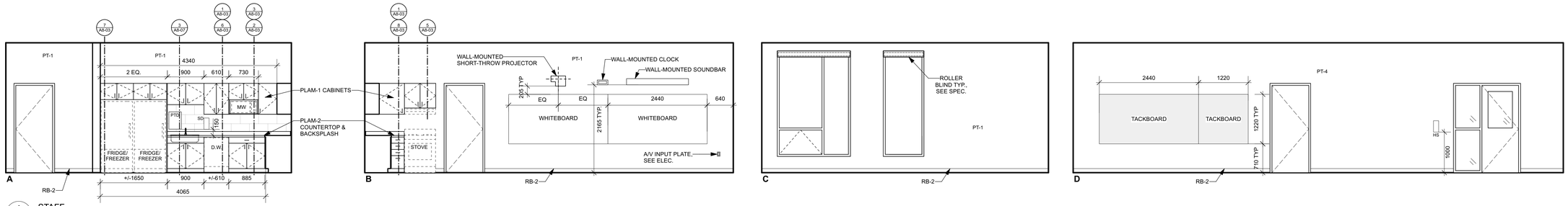
NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB, Canada

drawing information

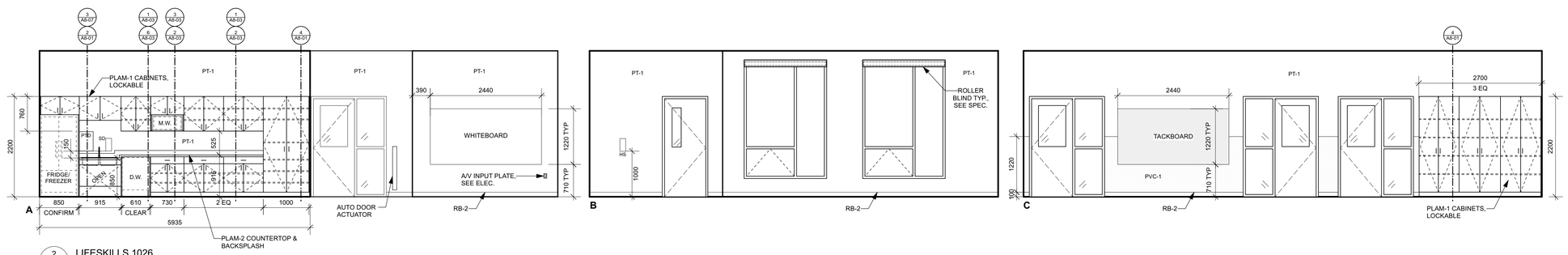
INTERIOR ELEVATIONS

drawn by:	**ER**
approved by:	**LO**
scale:	**1:50**
date issued:	**2023.03.24**
proj. #:	**2021.49**
rev. #:	**R-0**

A5 02



1 A5-03 STAFF
Scale: 1:50
NOTE: CONFIRM FINAL LOCATION OF A/V EQUIPMENT W/ OWNER AND MANUF. INSTRUCTIONS.



2 A5-03 LIFESKILLS 1026
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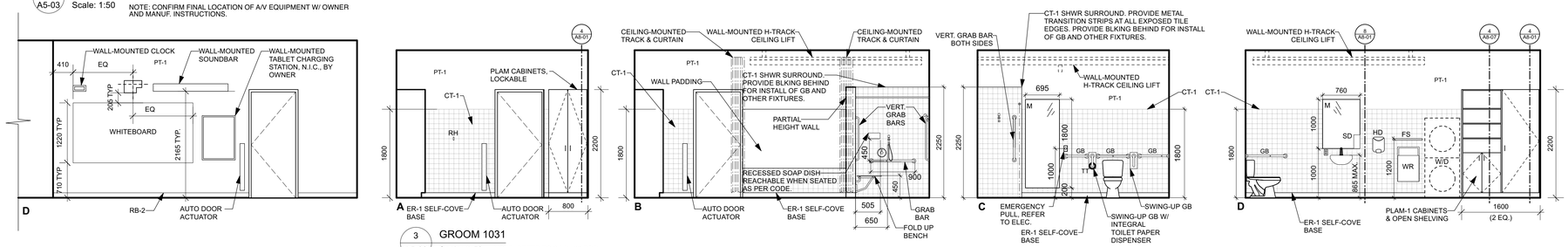
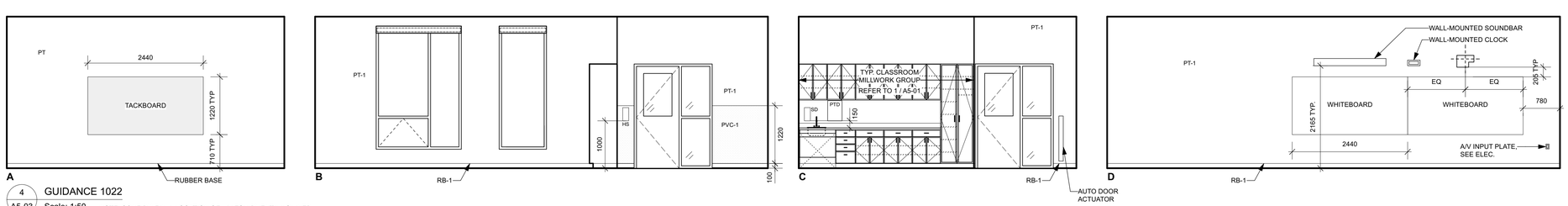


3 A5-03 GROOM 1031
Scale: 1:50
NOTE: REFER TO 6 / A5-09 FOR WASHROOM ACCESSORY LEGEND AND TYPICAL MOUNTING HEIGHTS.



4 A5-03 GUIDANCE 1022
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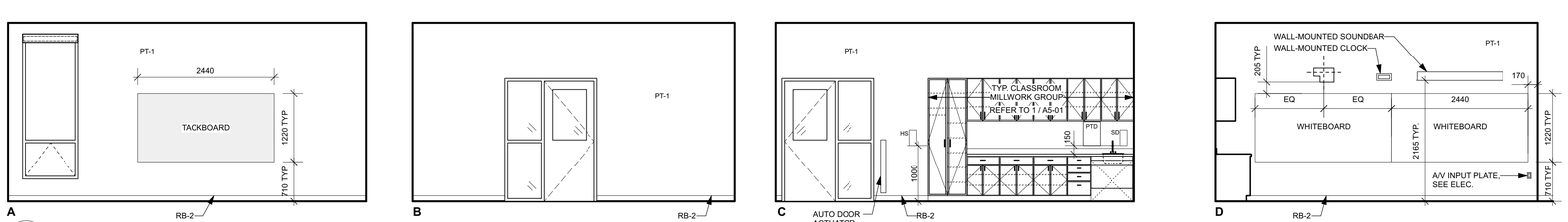

5 A5-03 RESOURCE 1009
Scale: 1:50
NOTE: CONFIRM FINAL LOCATION OF A/V EQUIPMENT W/ OWNER AND MANUF. INSTRUCTIONS.

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PROVINCE OF MANITOBA — LINDSAY OSTER — 2023-03-24 — REGISTERED ARCHITECT

PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. — No. 026 — APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

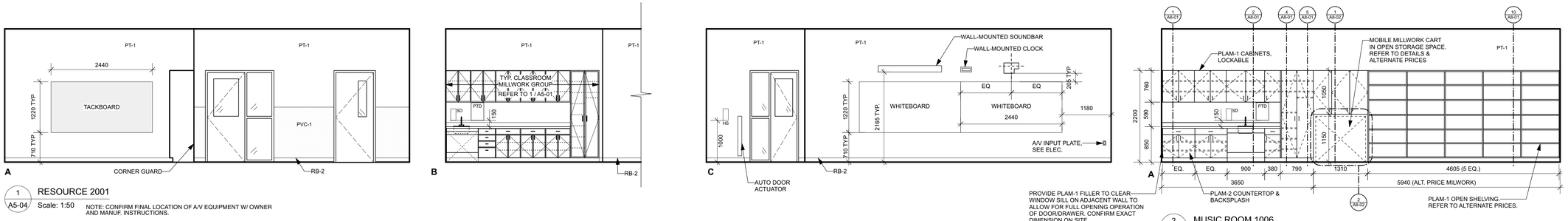
NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB, Canada

drawing information

INTERIOR ELEVATIONS

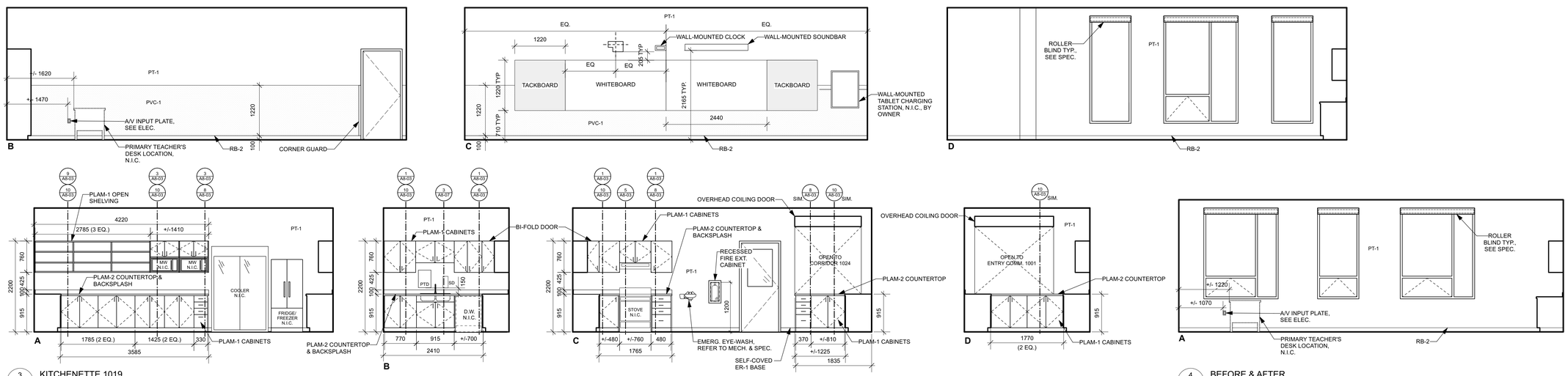
drawn by:	ER
approved by:	LO
scale:	1:50
date issued:	2023.03.24
proj. #:	2021.49
rev. #:	R-0

A5 03



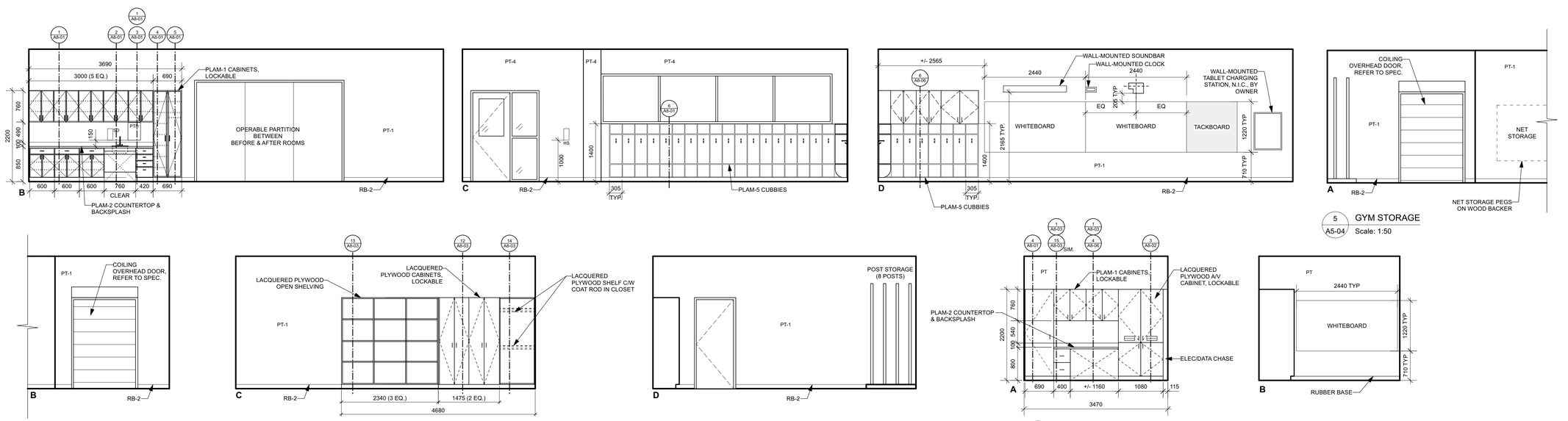
1 / A5-04 RESOURCE 2001
Scale: 1:50
NOTE: CONFIRM FINAL LOCATION OF A/V EQUIPMENT W/ OWNER AND MANUF. INSTRUCTIONS.

2 / A5-04 MUSIC ROOM 1006
Scale: 1:50
NOTE: CONFIRM FINAL LOCATION OF A/V EQUIPMENT W/ OWNER AND MANUF. INSTRUCTIONS.



3 / A5-04 KITCHENETTE 1019
Scale: 1:50

4 / A5-04 BEFORE & AFTER
Scale: 1:50
NOTE: CONFIRM FINAL LOCATION OF A/V EQUIPMENT W/ OWNER AND MANUF. INSTRUCTIONS.



5 / A5-04 GYM STORAGE
Scale: 1:50

6 / A5-04 GYM OFFICE
Scale: 1:50

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PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. — No. 026 — APPROVED ARCHITECTURAL CORPORATION

project information

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NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB, Canada

drawing information

INTERIOR ELEVATIONS

drawn by: **ER**
approved by: **LO**

scale: **1:50**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

A5 04

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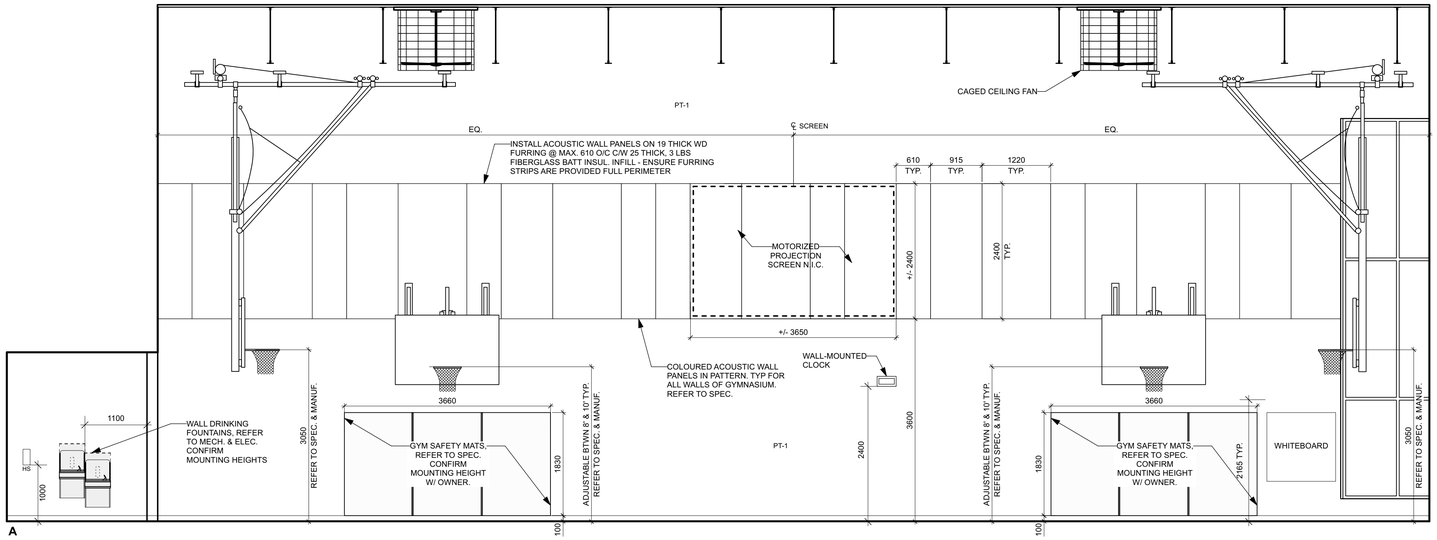
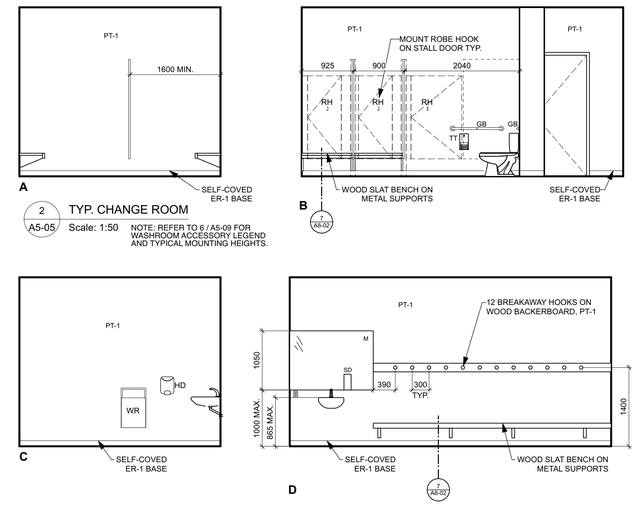
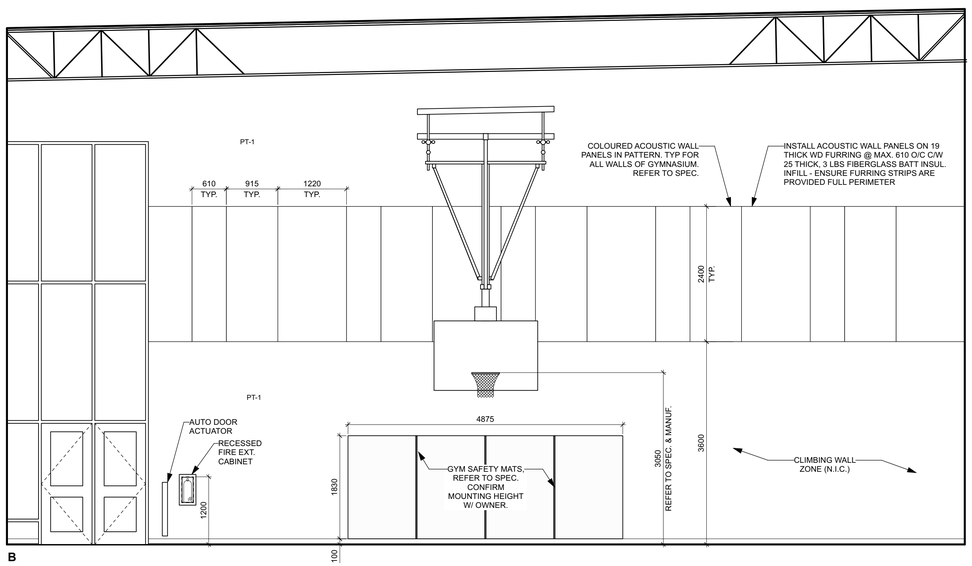


A

1 A5-05 GYM 1017
Scale: 1:50
NOTE: CONFIRM FINAL LOCATION OF A/V EQUIPMENT W/ OWNER AND MANUF. INSTRUCTIONS.



2 A5-05 TYP. CHANGE ROOM
Scale: 1:50
NOTE: REFER TO 6 / A5-09 FOR WASHROOM ACCESSORY LEGEND AND TYPICAL MOUNTING HEIGHTS.



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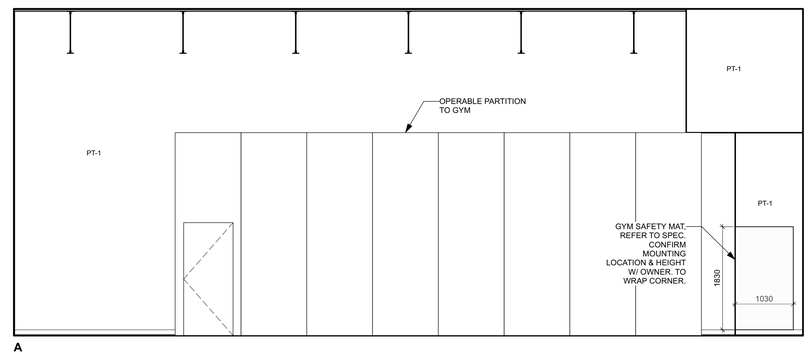
1 A5-05 GYM 1017
Scale: 1:50
NOTE: CONFIRM FINAL LOCATION OF A/V EQUIPMENT W/ OWNER AND MANUF. INSTRUCTIONS.



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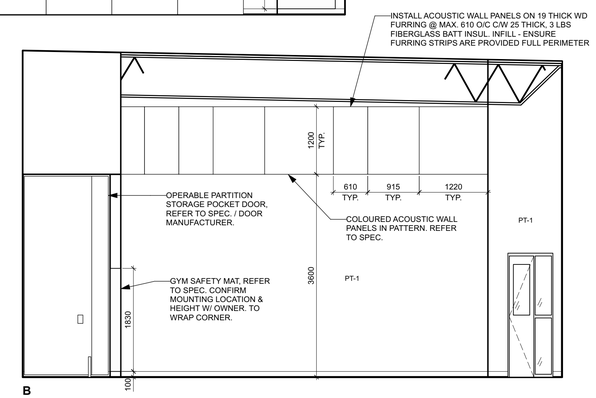
3 A5-05 MINI GYM
Scale: 1:50
NOTE: CONFIRM FINAL LOCATION OF A/V EQUIPMENT W/ OWNER AND MANUF. INSTRUCTIONS.



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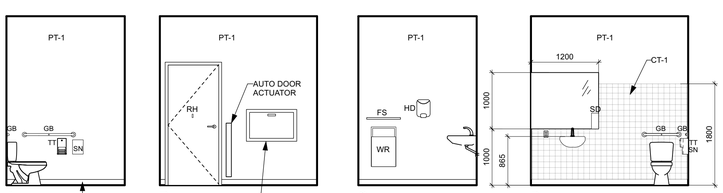

4 A5-05 UNIV. W/C 1008
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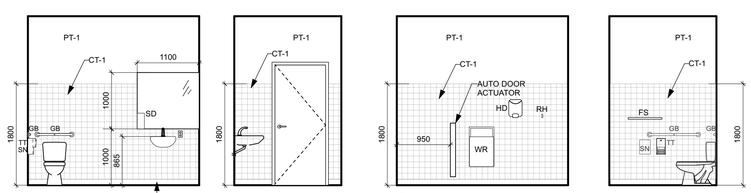
NOTE: REFER TO 6 / A5-09 FOR WASHROOM ACCESSORY LEGEND AND TYPICAL MOUNTING HEIGHTS.



5 A5-05 STAFF 1307
Scale: 1:50
NOTE: REFER TO 6 / A5-09 FOR WASHROOM ACCESSORY LEGEND AND TYPICAL MOUNTING HEIGHTS.

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issue / rev.

#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

PROVINCE OF MANITOBA — LINDSAY OSTER — 2023-03-24 — REGISTERED ARCHITECT

PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. — No. 029 — APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB, Canada

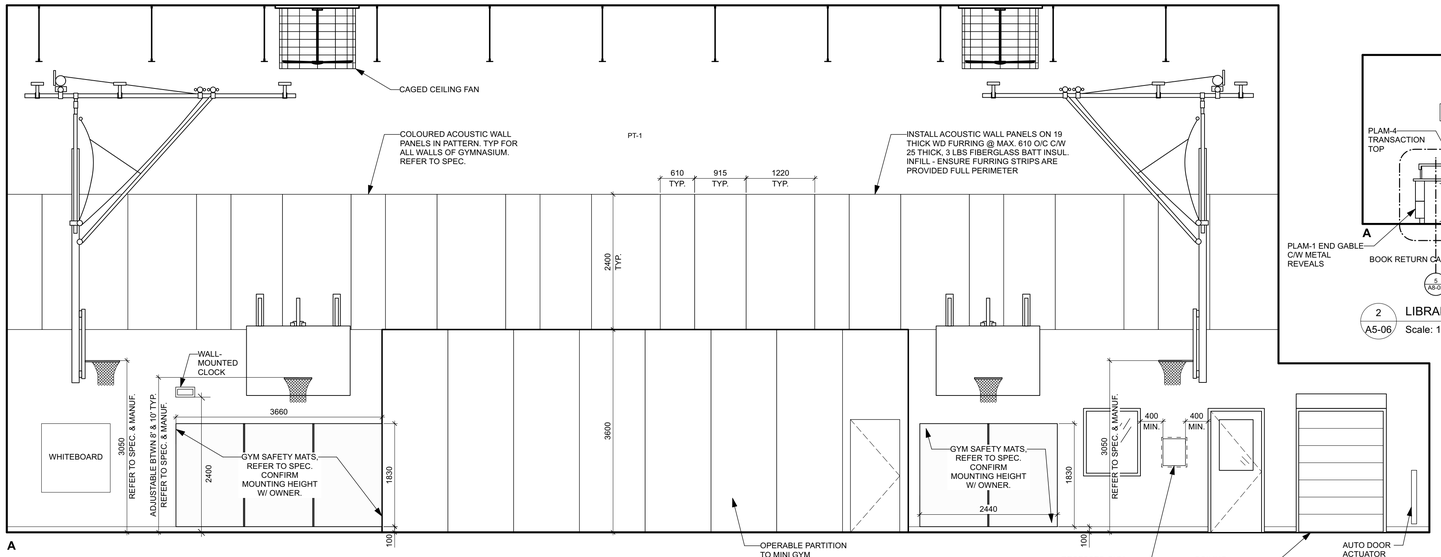
drawing information

INTERIOR ELEVATIONS

drawn by: **ER**
approved by: **LO**

scale: **1:50**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

A5 05



1 A5-06 GYM 1017
Scale: 1:50

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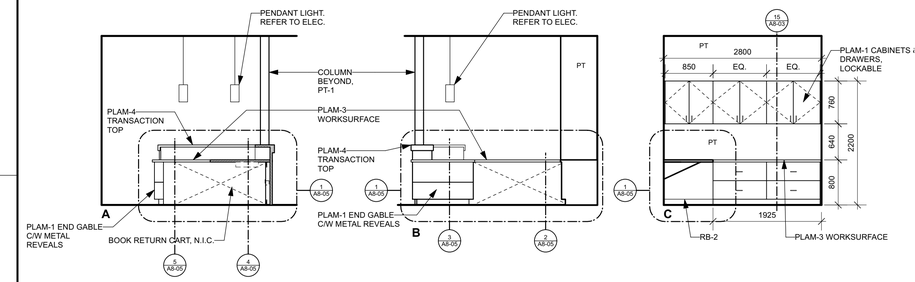
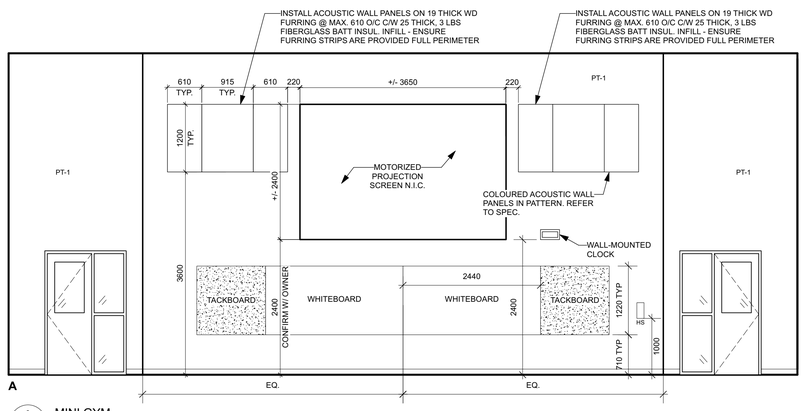
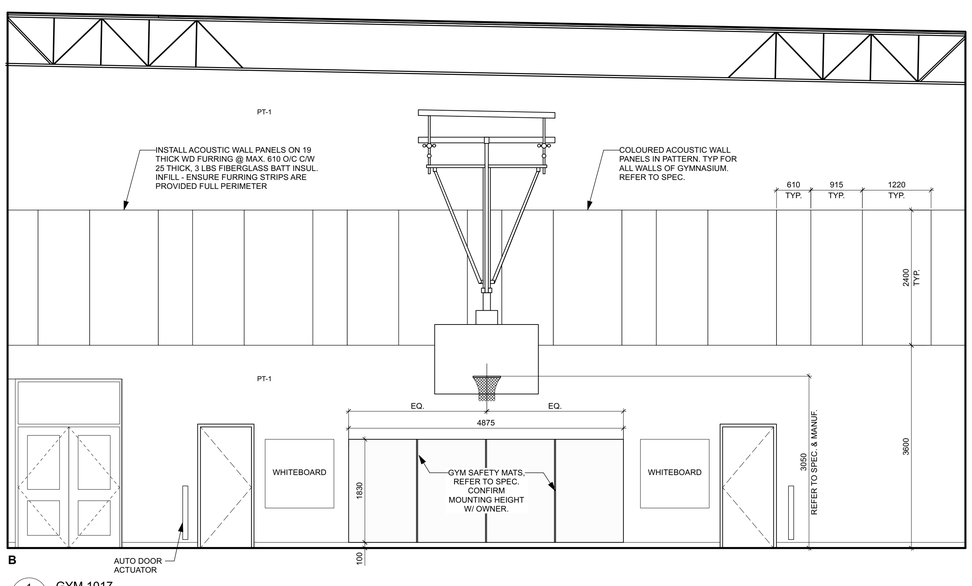


2 A5-06 LIBRARY CIRCULATION DESK
Scale: 1:50



3 A5-06 MINI GYM
Scale: 1:50

NOTE: CONFIRM FINAL LOCATION OF A/V EQUIPMENT W/ OWNER AND MANUF. INSTRUCTIONS.



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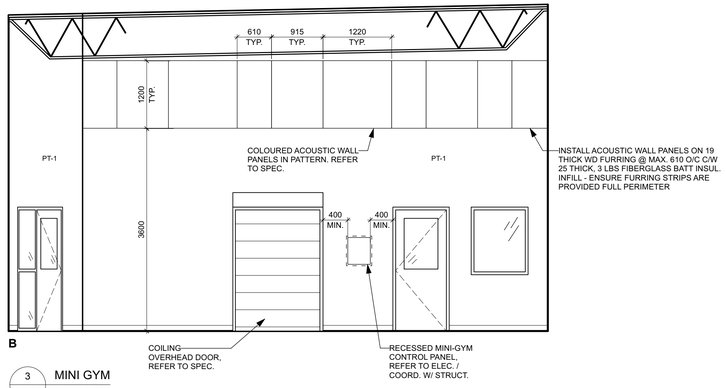

3 A5-06 MINI GYM
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PROVINCE OF MANITOBA — LINDSAY OSTER — 2023-03-24 — REGISTERED ARCHITECT

PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. No. 026 — APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

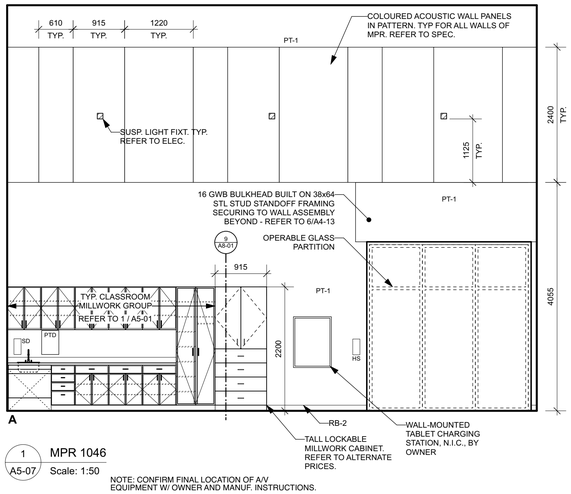
NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB, Canada

drawing information

INTERIOR ELEVATIONS

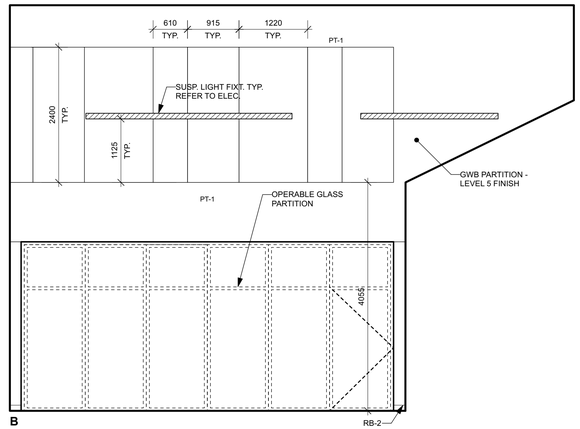
drawn by:	**ER**
approved by:	**LO**
scale:	**1:50**
date issued:	**2023.03.24**
proj. #:	**2021.49**
rev. #:	**R-0**

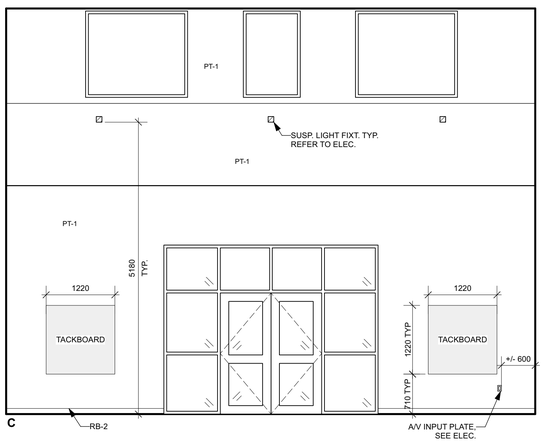
A5 06



1 A5-07 MPR 1046
Scale: 1:50

NOTE: CONFIRM FINAL LOCATION OF A/V EQUIPMENT W/ OWNER AND MANUF. INSTRUCTIONS.





1 A5-07 MPR 1046
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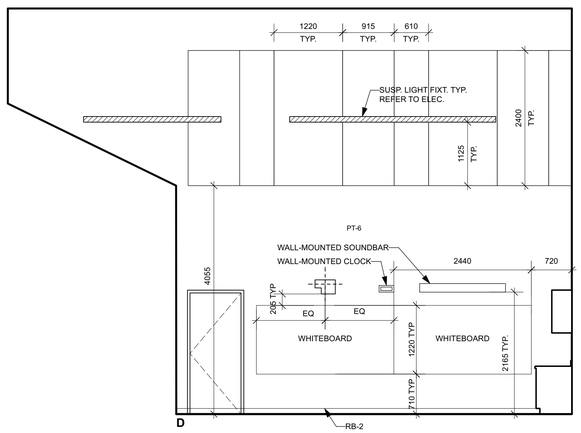

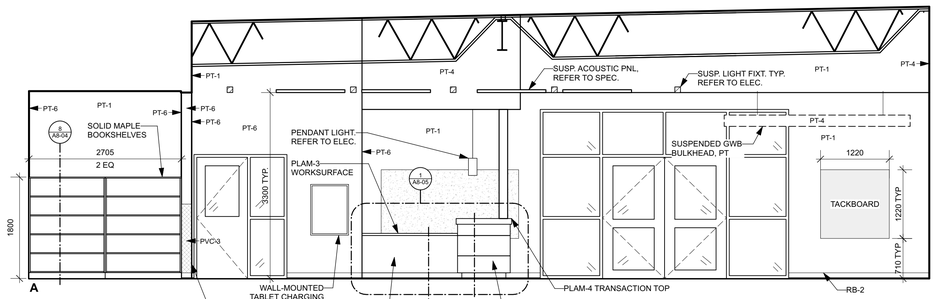

2 A5-07 LIBRARY 1042
Scale: 1:50

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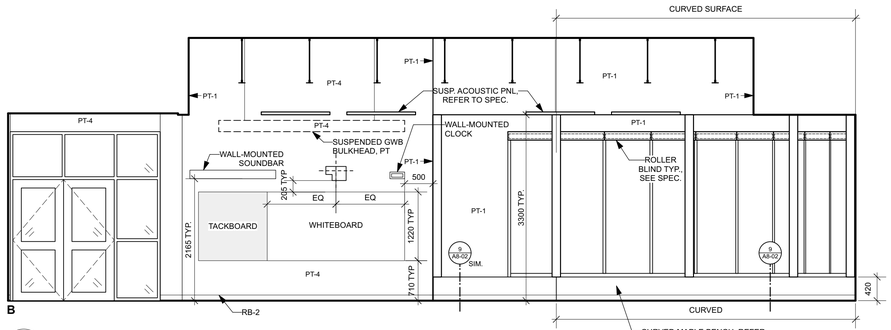

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Scale: 1:50

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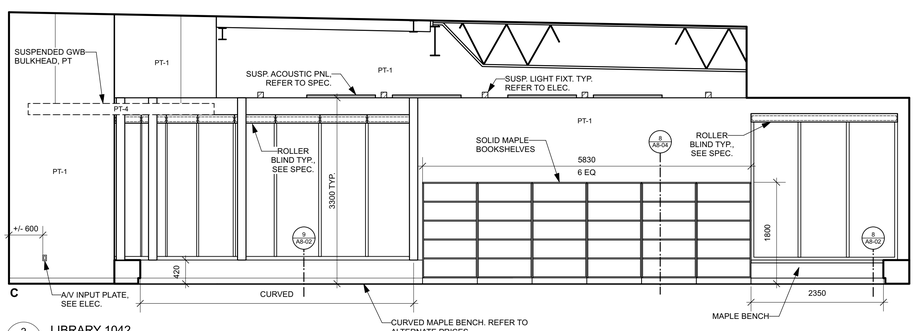

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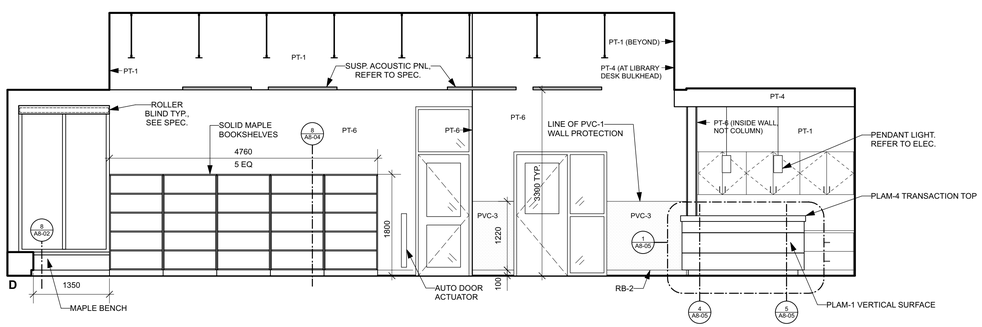

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PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. — No. 026 — APPROVED ARCHITECTURAL CORPORATION

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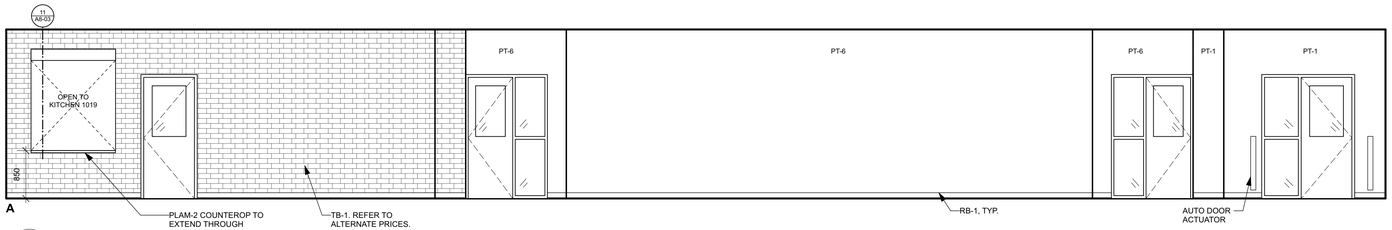
drawing information

INTERIOR ELEVATIONS

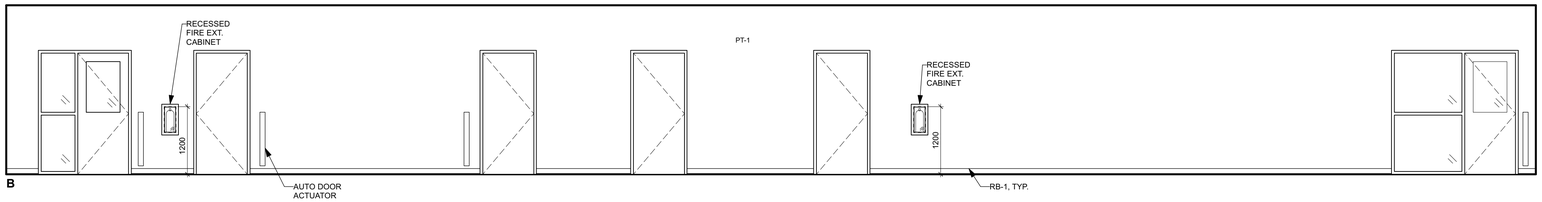
drawn by: **ER**
approved by: **LO**

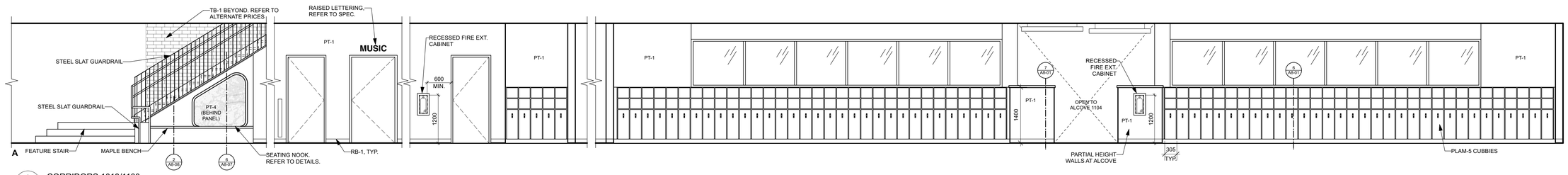
scale: **1:50**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

A5 07

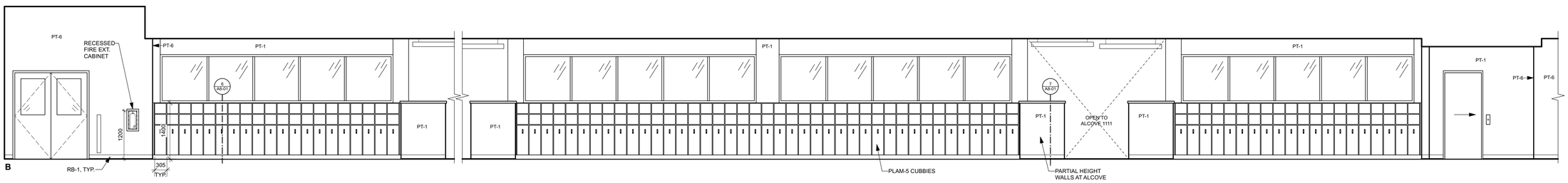


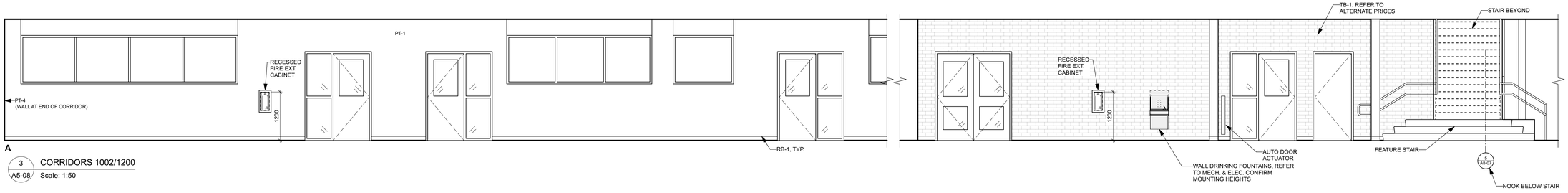
1 A5-08 CORRIDOR 1024
Scale: 1:50



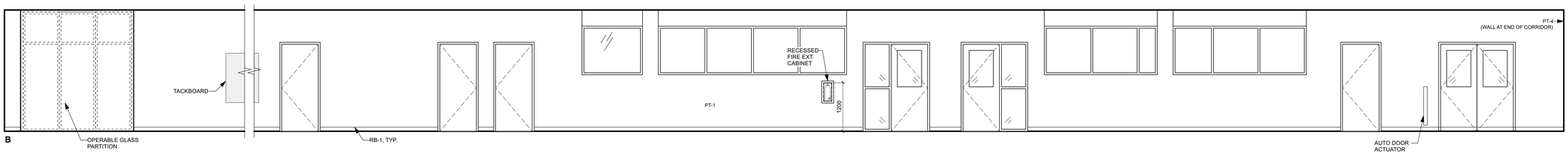


2 A5-08 CORRIDORS 1013/1100
Scale: 1:50





3 A5-08 CORRIDORS 1002/1200
Scale: 1:50



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LINDSAY OSTER
2023-03-24
REGISTERED ARCHITECT

PROVINCE OF MANITOBA
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No. 026
APPROVED ARCHITECTURAL CORPORATION

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client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB, Canada

drawing information

INTERIOR ELEVATIONS

drawn by:	**KB**
approved by:	**LO**
scale:	**1:50**
date issued:	**2023.03.24**
proj. #:	**2021.49**
rev. #:	**R-0**

A5 08

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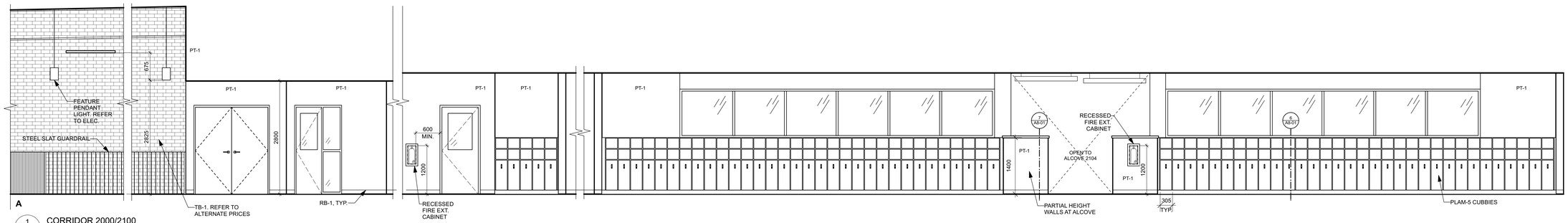

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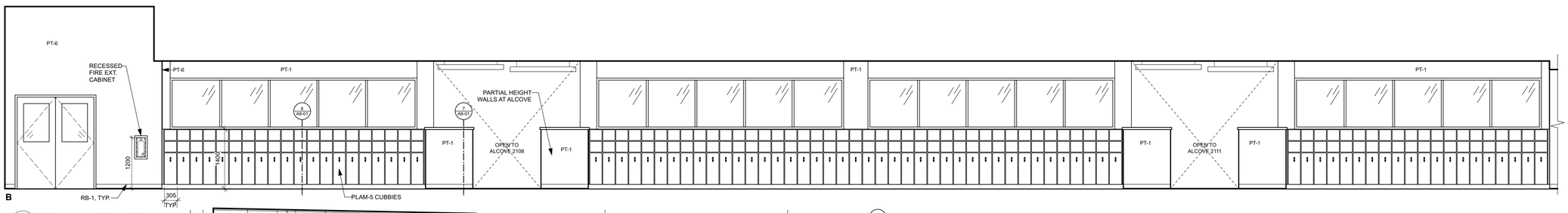
Scale: 1:50



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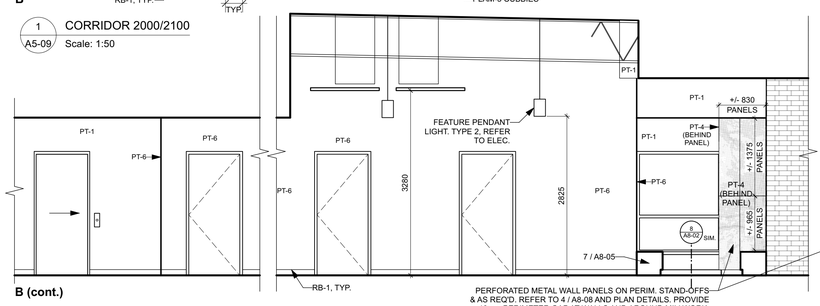
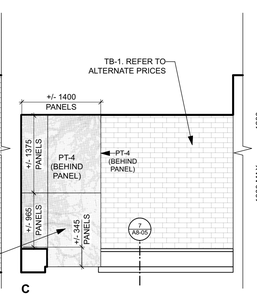
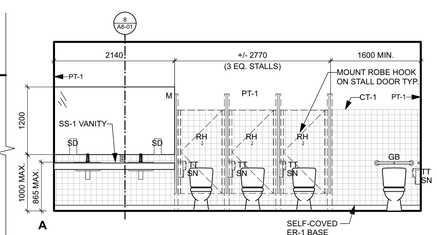
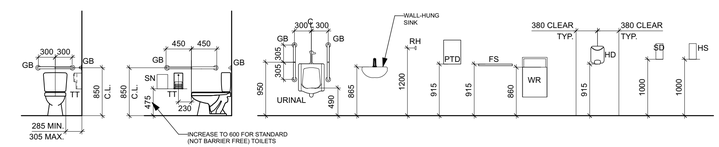


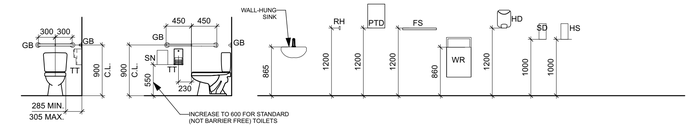




3 A5-09 TYP. FEMALE WASHROOM
Scale: 1:50
NOTE: REFER TO 6 / A5-09 FOR WASHROOM ACCESSORY LEGEND AND TYPICAL MOUNTING HEIGHTS.



CHILDREN & UNIVERSAL WASHROOMS: W/C 1008, W/C 1101, W/C 1102, W/C 2101, W/C 2102, W/C 2204, W/C 2207, W/C 2208, F CHANGE 1015, M CHANGE 1016, GROOM 1031



ADULT / STAFF WASHROOMS: W/C 1032, W/C 1033, W/C 1213, W/C 1214, W/C 1307, W/C 1317, W/C 2205, W/C 2206

6 A5-09 TYP. W/C ACCESSORY MOUNTING HEIGHTS
1:50

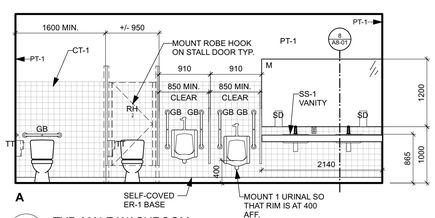
LEGEND (REFER TO SPEC.):
GB = GRAB BAR
TT = TOILET PAPER DISPENSER (N.I.C.) BY OWNER
SN = SANITARY NAPKIN DISPOSAL
RH = ROBE HOOK / COAT HOOK
PTD = PAPER TOWEL DISPENSER (N.I.C.) BY OWNER
FS = FOLDING SHELF
WR = WASTE RECEPTACLE
HD = HAND DRYER
SD = SOAP DISPENSER (N.I.C.) BY OWNER
HS = HAND SANITIZER DISPENSER (N.I.C.) BY OWNER

NOTE: REFER TO SPECIFICATION FOR WASHROOM ACCESSORY SCHEDULE.

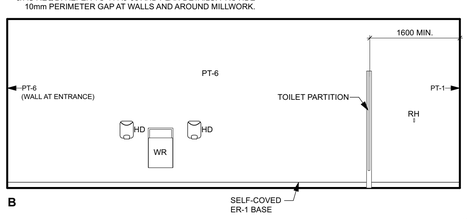
MOUNT W/C FIXTURES & ACCESSORIES AS SHOWN HERE, UNLESS INDICATED ELSEWHERE.

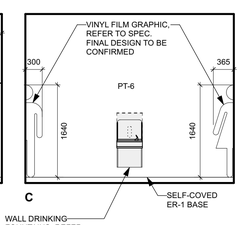
NOTE: FOR TEACHING SPACES & OTHER NON-WASHROOM SPACES, REFER TO INTERIOR ELEVATION DRAWINGS.

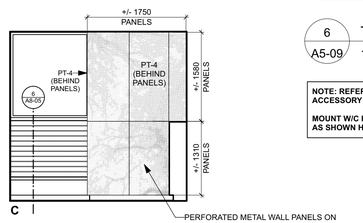
NOTE: FOR CHILDCARE WASHROOMS, REFER TO SPECIFIC INTERIOR ELEVATIONS. (W/C 1309, W/C 1311, W/C 1313, W/C 1316, W/C 1319, W/C 1321)



4 A5-09 TYP. MALE WASHROOM
Scale: 1:50
NOTE: REFER TO 6 / A5-09 FOR WASHROOM ACCESSORY LEGEND AND TYPICAL MOUNTING HEIGHTS.







5 A5-09 CORRIDOR 2200
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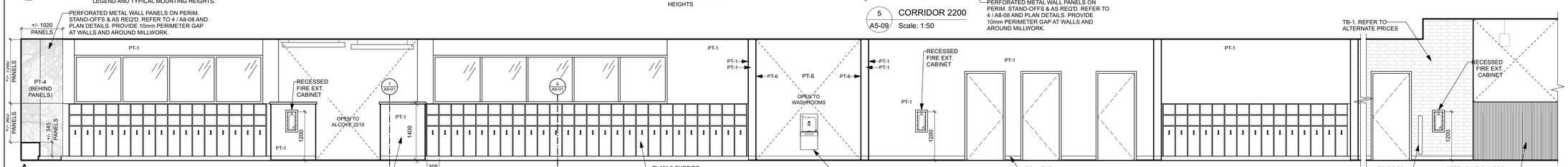

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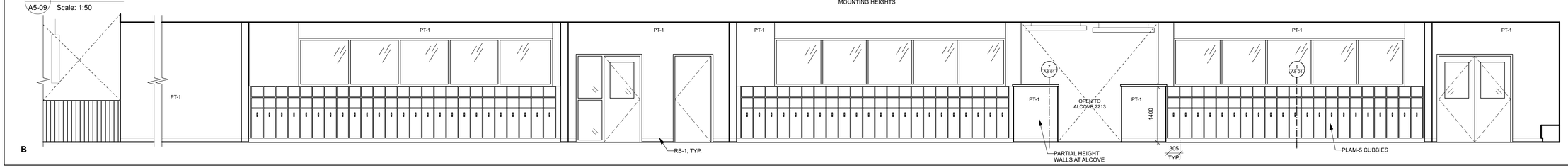
Scale: 1:50



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issue / rev.

#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

PROVINCE OF MANITOBA — LINDSAY OSTER — 2023-03-24 — REGISTERED ARCHITECT

PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. — No. 028 — APPROVED ARCHITECTURAL CORPORATION

project information

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91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
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NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB, Canada

drawing information

INTERIOR ELEVATIONS

drawn by:	KB
approved by:	LO
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date issued:	2023.03.24
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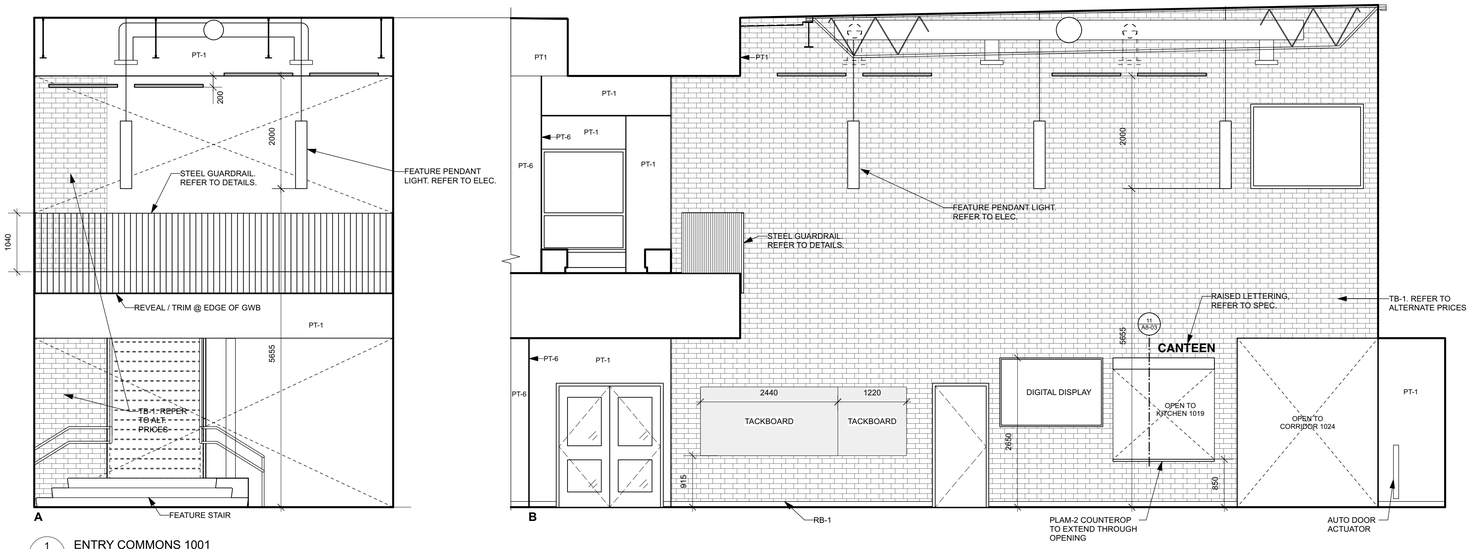
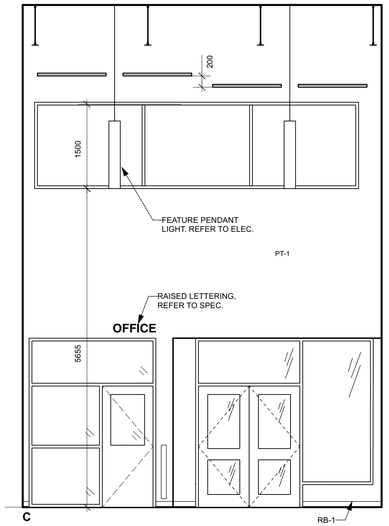
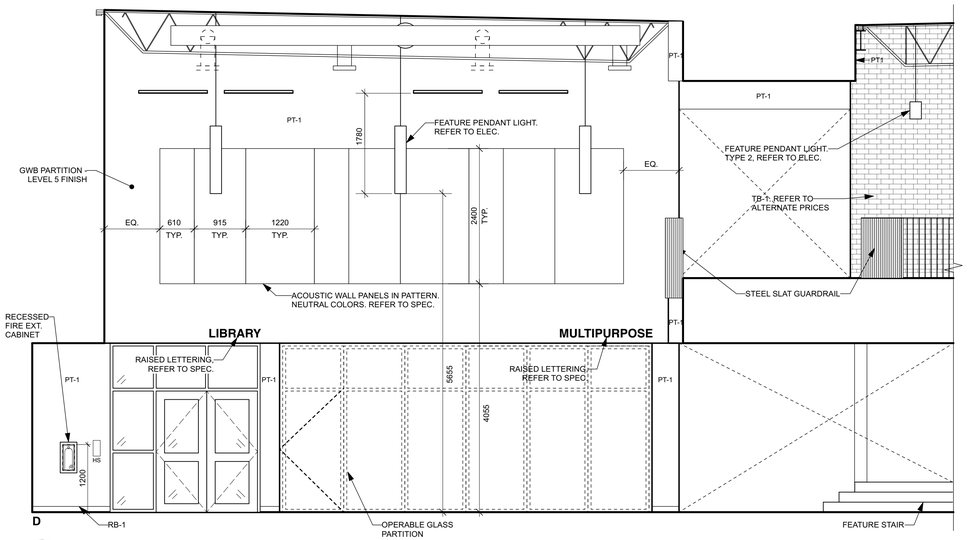
A5 09



1 A5-10 ENTRY COMMONS 1001
Scale: 1:50





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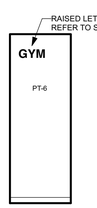

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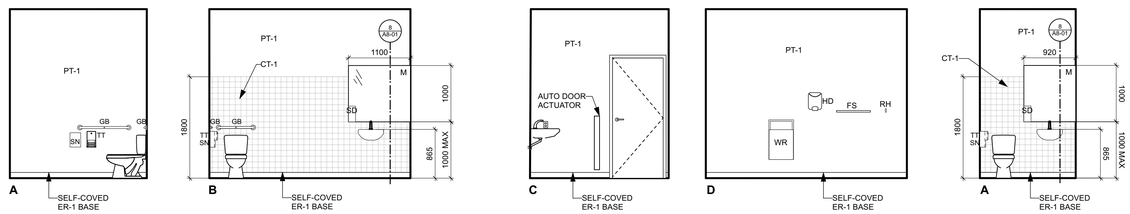
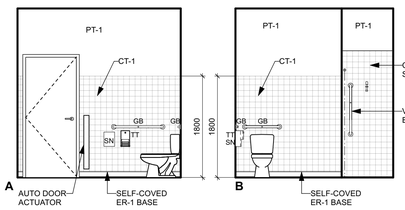


2 A5-10 UNIV. W/C 2204
Scale: 1:50
NOTE: REFER TO 6 / A5-09 FOR WASHROOM ACCESSORY LEGEND AND TYPICAL MOUNTING HEIGHTS.

3 A5-10 TYP. WASHROOM
Scale: 1:50
NOTE: REFER TO 6 / A5-09 FOR WASHROOM ACCESSORY LEGEND AND TYPICAL MOUNTING HEIGHTS.



4 A5-10 SHOWER 1033
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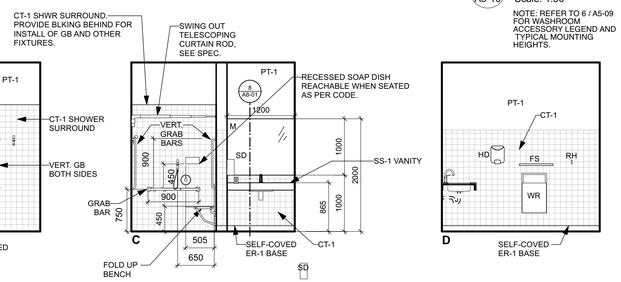
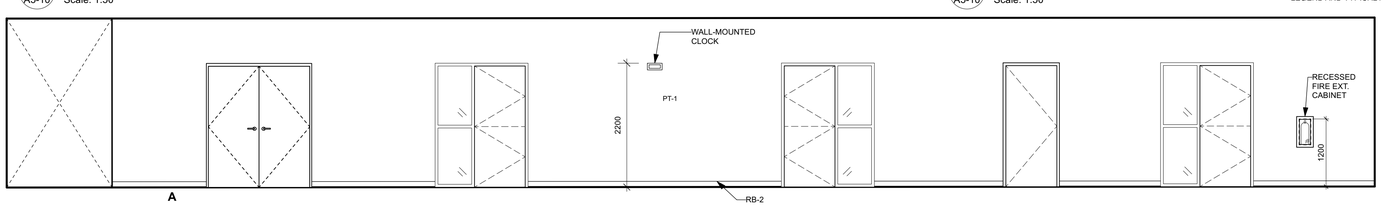
NOTE: REFER TO 6 / A5-09 FOR WASHROOM ACCESSORY LEGEND AND TYPICAL MOUNTING HEIGHTS.





5 A5-10 CORRIDOR 1300
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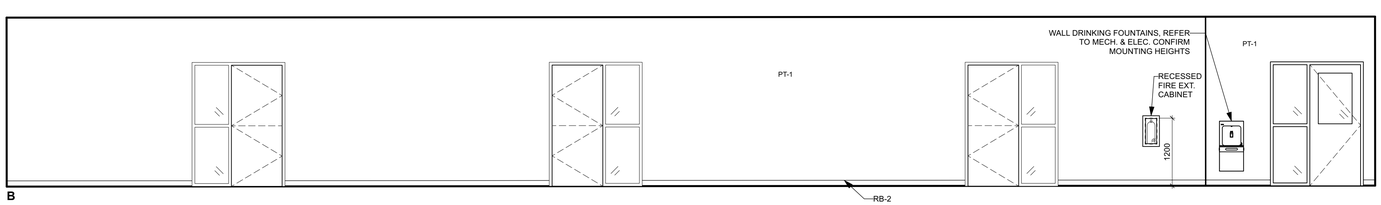
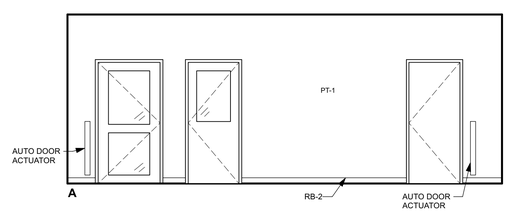
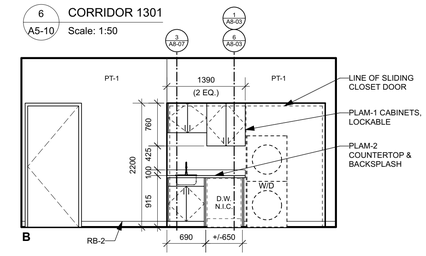




6 A5-10 CORRIDOR 1301
Scale: 1:50



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approved by: **LO**

scale: **1:50**
date issued: **2023.03.24**
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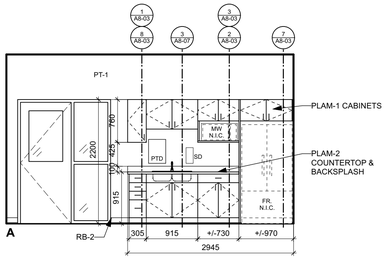
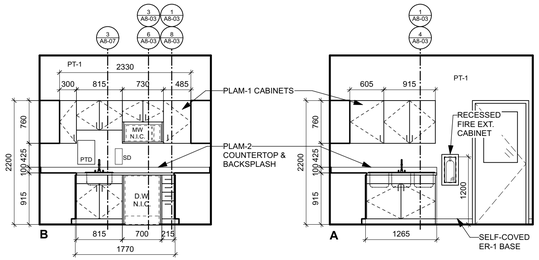
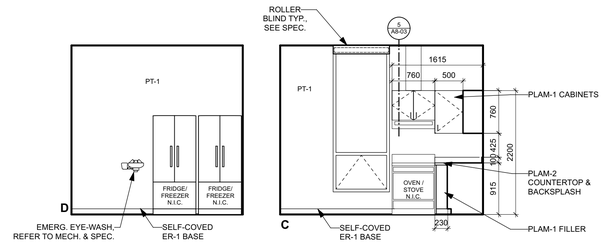
A5 10



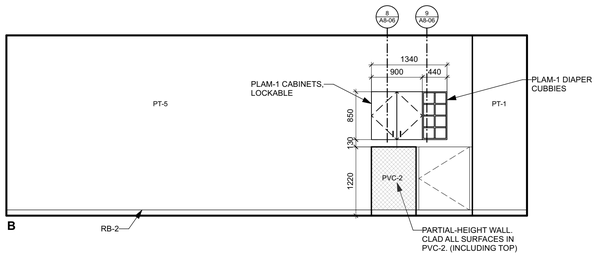
1 A5-11 STAFF 1304
Scale: 1:50

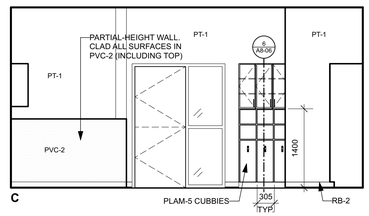


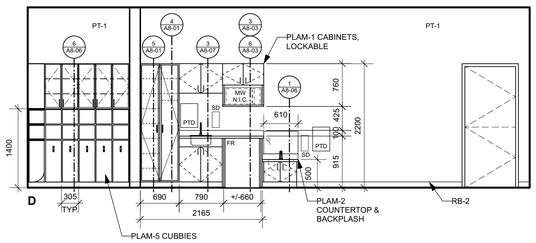
2 A5-11 KITCHEN 1314
Scale: 1:50

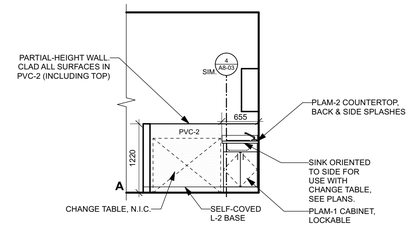


3 A5-11 TYP. INFANT ROOM
Scale: 1:50

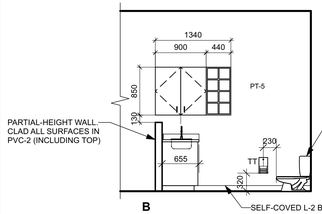


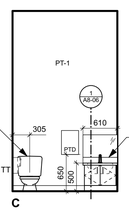


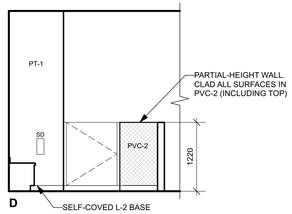


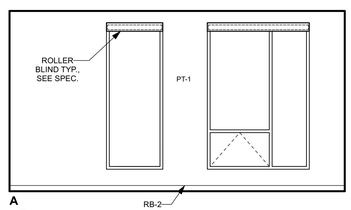


4 A5-11 TYP. INFANT & TODDLER WASHROOM
Scale: 1:50
NOTE: REFER TO 6 / A5-09 FOR WASHROOM ACCESSORY LEGEND.

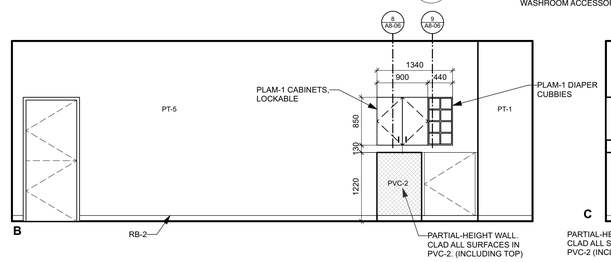


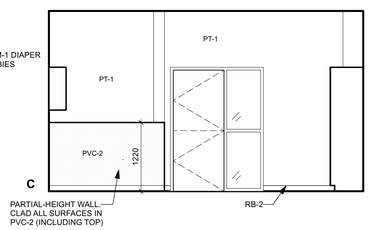


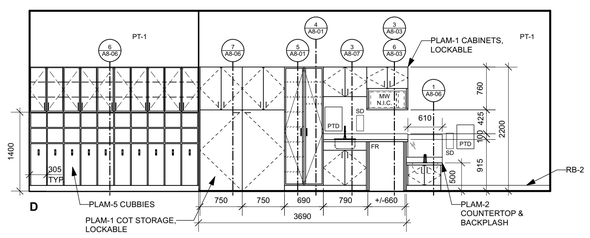


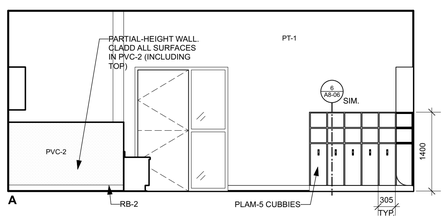


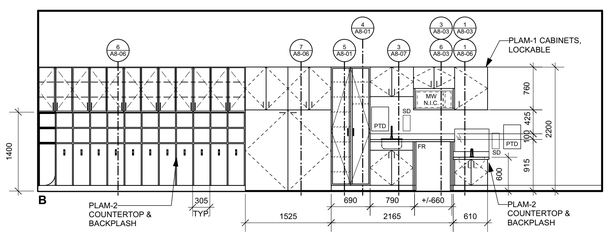
5 A5-11 TODDLER 1308
Scale: 1:50

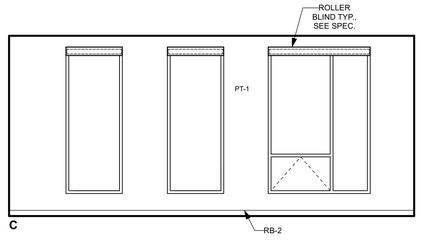




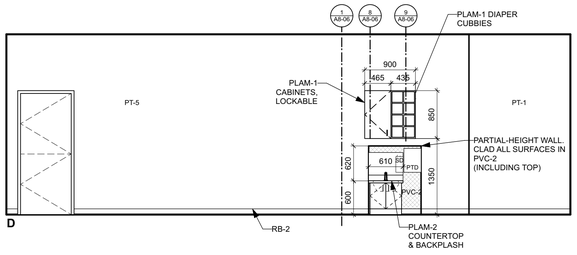


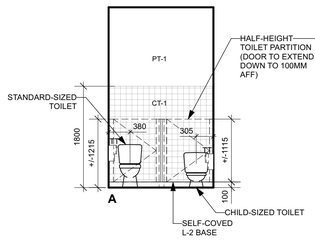


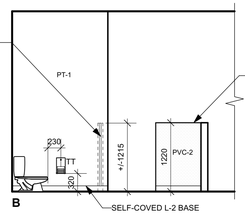


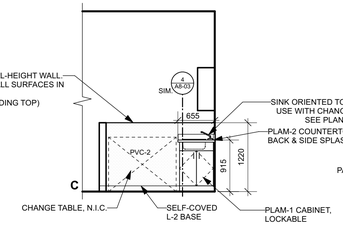


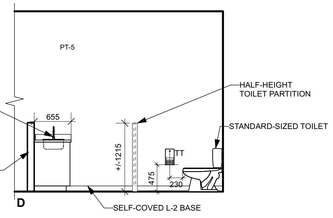
6 A5-11 TYP. PRESCHOOL ROOM
Scale: 1:50
NOTE: REFER TO 6 / A5-09 FOR WASHROOM ACCESSORY LEGEND.











7 A5-11 TYP. PRESCHOOL WASHROOM
Scale: 1:50
NOTE: REFER TO 6 / A5-09 FOR WASHROOM ACCESSORY LEGEND.

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drawing information

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approved by:	LO
scale:	1:50
date issued:	2023.03.24
proj. #:	2021.49
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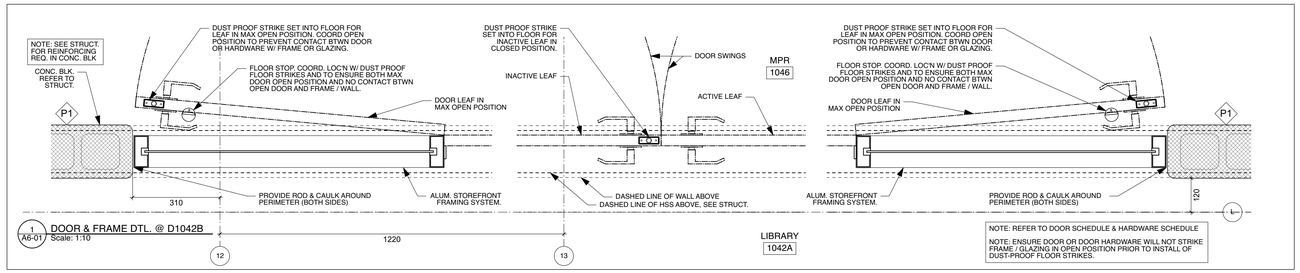
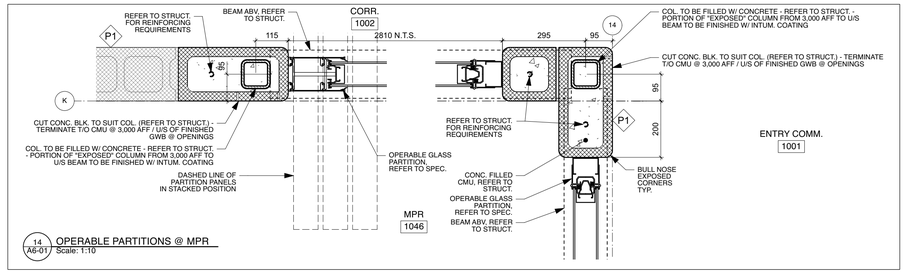
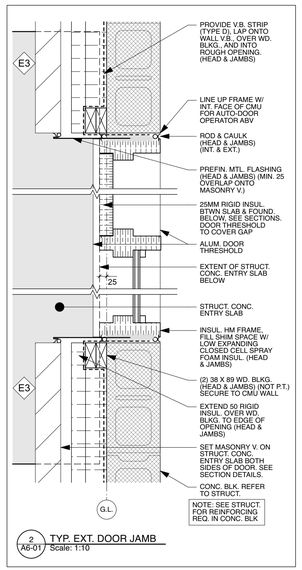
A5 11



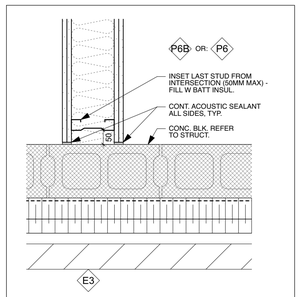
1 A6-01 DOOR & FRAME DTL. @ D1042B
Scale: 1:10



14 A6-01 OPERABLE PARTITIONS @ MPR
Scale: 1:10



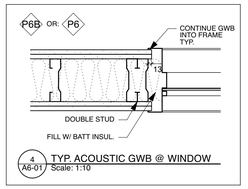
2 A6-01 TYP. EXT. DOOR JAMB
Scale: 1:10



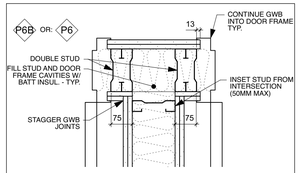
3 A6-01 TYP. ACOUSTIC GWB INTERSECTION W/ CMU
Scale: 1:10

GENERAL NOTES - PLAN DETAILS:

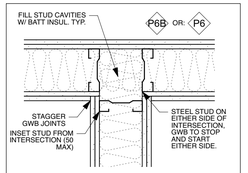
STANDARD CONCRETE BLOCK COURSING FOR PARTITIONS & WALLS IS SHOWN IN PLAN DETAILS FOR REPRESENTATION PURPOSES ONLY TYP. MASON TO COORDINATE FINAL BLOCK COURSING TO BEST SUIT STRUCT. AND ARCHITECTURAL REQUIREMENTS. COORD. W/ STRUCTURAL & ARCHITECTURAL.



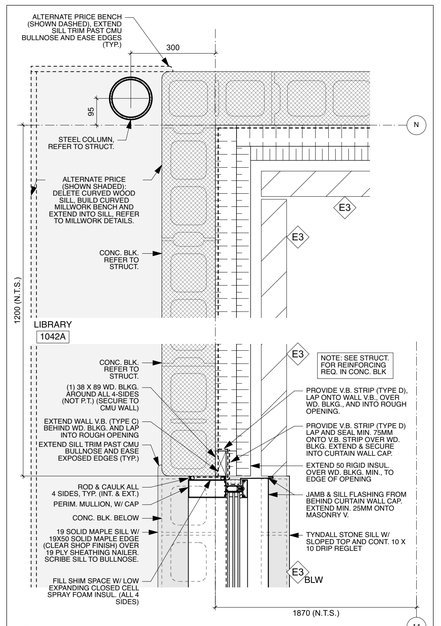
4 A6-01 TYP. ACOUSTIC GWB @ WINDOW
Scale: 1:10



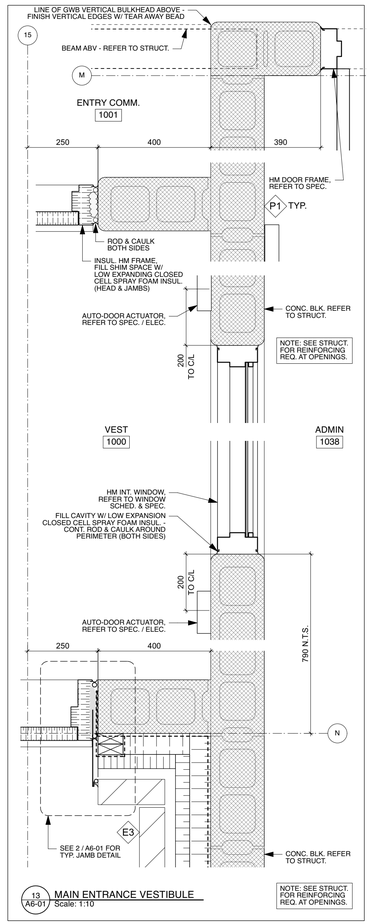
5 A6-01 TYP. ACOUSTIC GWB INTERSECTION @ DOORS
Scale: 1:10



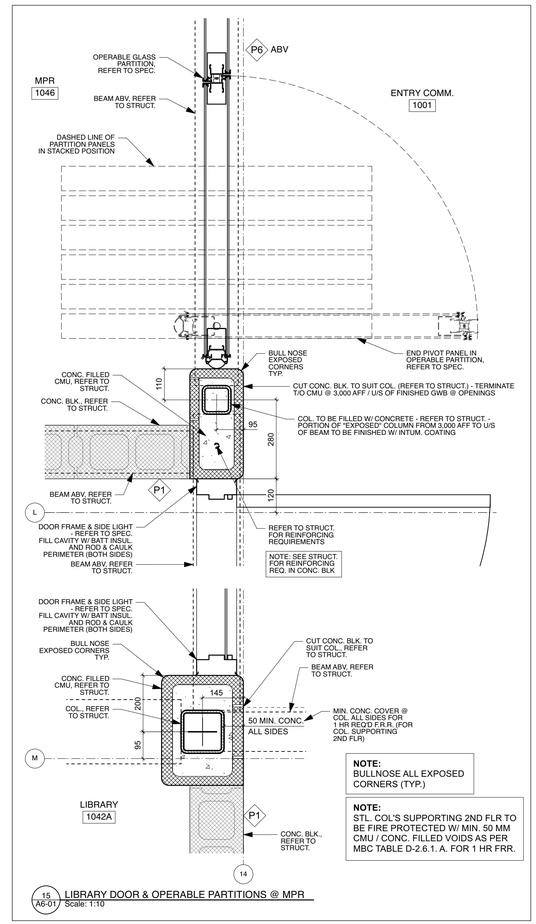
6 A6-01 TYP. ACOUSTIC GWB INTERSECTION
Scale: 1:10



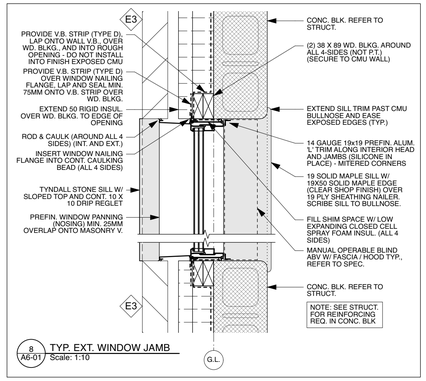
12 A6-01 CURTAIN WALL JAMB @ LIBRARY
Scale: 1:10



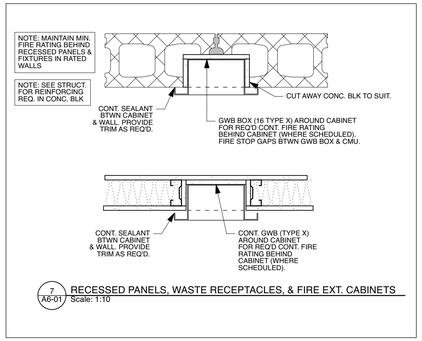
13 A6-01 MAIN ENTRANCE VESTIBULE
Scale: 1:10



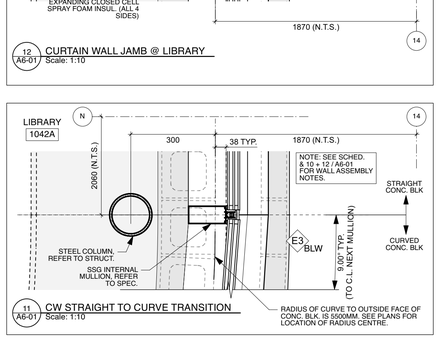
15 A6-01 LIBRARY DOOR & OPERABLE PARTITIONS @ MPR
Scale: 1:10



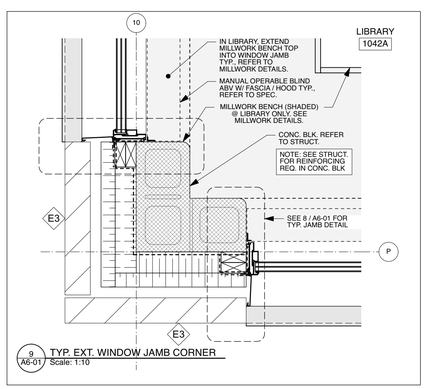
8 A6-01 TYP. EXT. WINDOW JAMB
Scale: 1:10



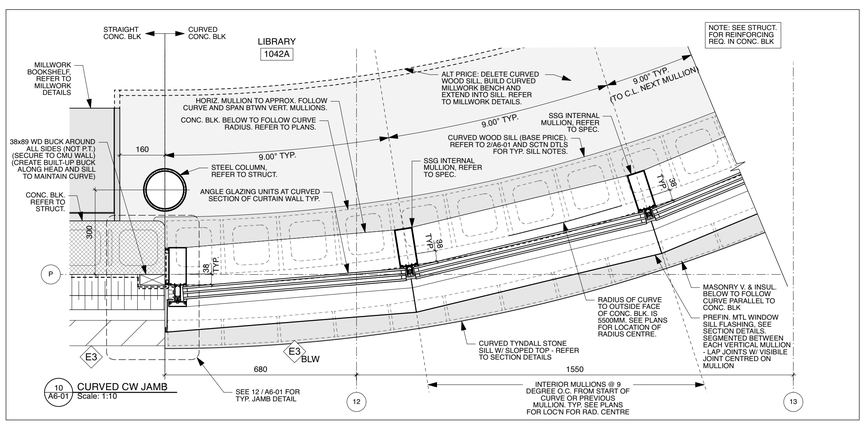
7 A6-01 RECESSED PANELS, WASTE RECEPTACLES, & FIRE EXT. CABINETS
Scale: 1:10



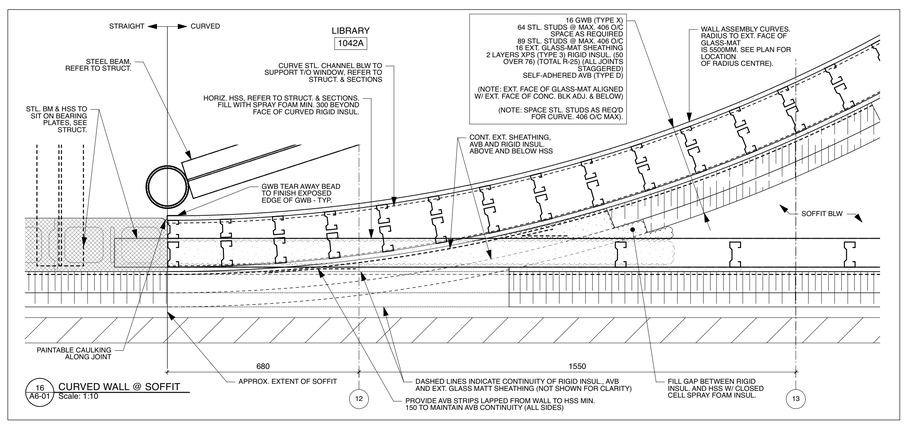
11 A6-01 CW STRAIGHT TO CURVE TRANSITION
Scale: 1:10



9 A6-01 TYP. EXT. WINDOW JAMB CORNER
Scale: 1:10



10 A6-01 CURVED CW JAMB
Scale: 1:10



16 A6-01 CURVED WALL @ SOFFIT
Scale: 1:10

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issue / rev.

#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

PROVINCE OF MANITOBA — LINDSAY OSTER — 2023-03-24 — REGISTERED ARCHITECT

PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. — No. 028 — APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

drawing information

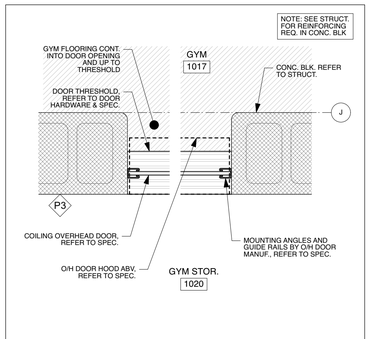
PLAN DETAILS

drawn by: **SK**
approved by: **LO**

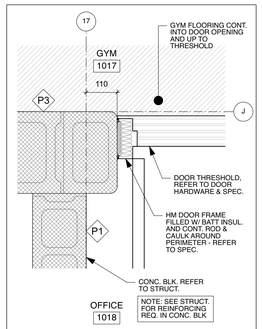
scale: **1:100**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

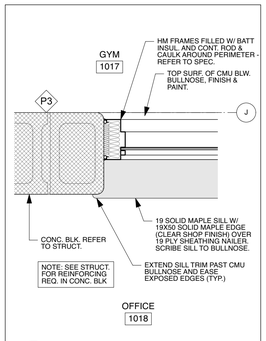
A6 01



1 A6-02 GYM STOR. COILING O/H DOOR
Scale: 1:10



2 A6-02 GYM OFFICE DOOR JAMB
Scale: 1:10



3 A6-02 GYM OFFICE WDW JAMB
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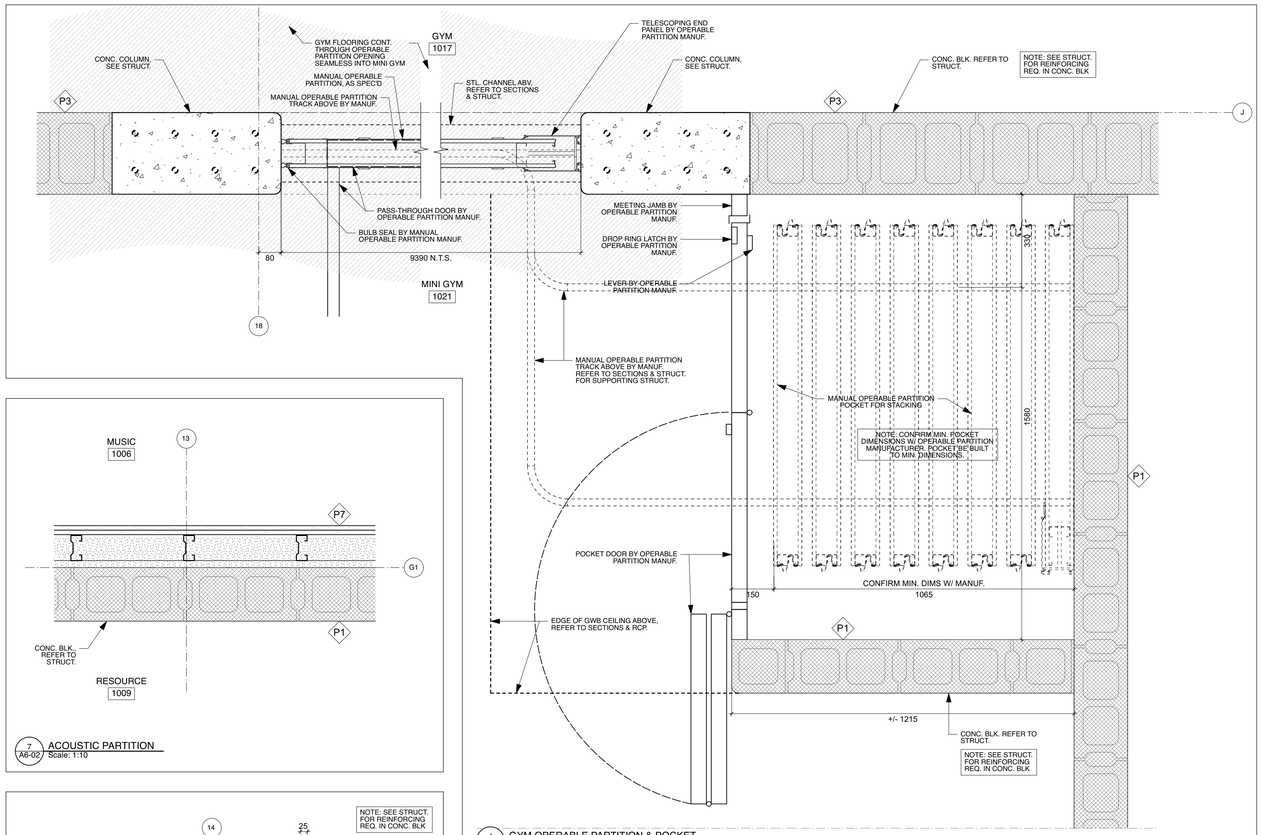

4 A6-02 GYM OPERABLE PARTITION & POCKET
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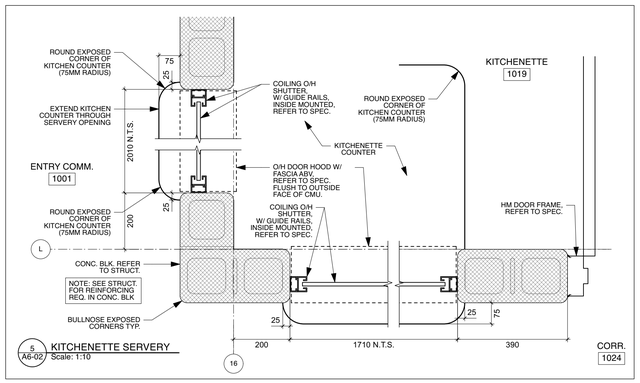

5 A6-02 KITCHENETTE SERVERY
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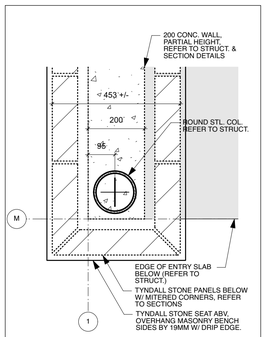
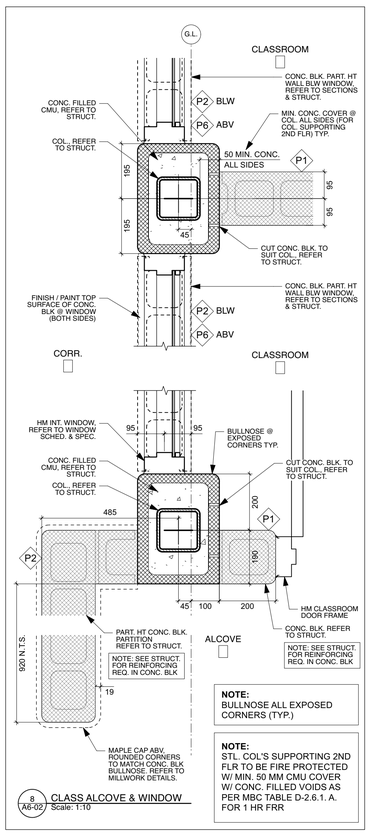
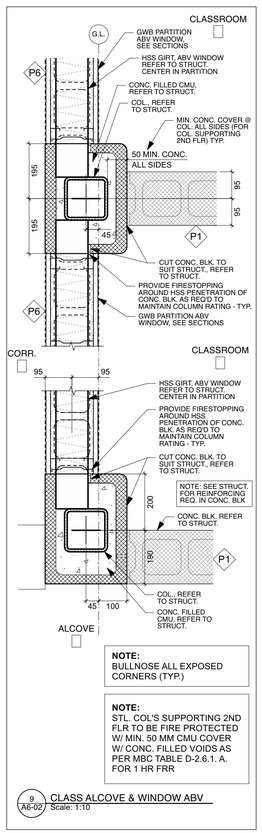


6 A6-02 COL. @ CHILDCARE ENTRANCE
Scale: 1:10

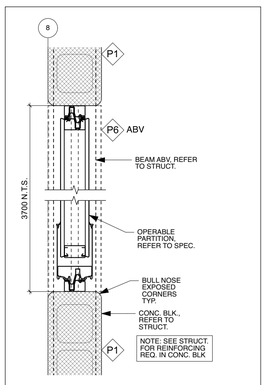
7 A6-02 ACOUSTIC PARTITION
Scale: 1:10



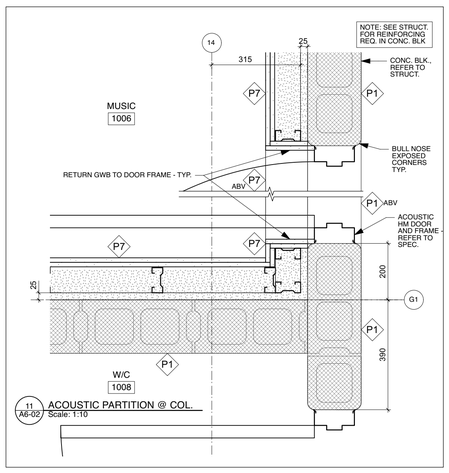
8 A6-02 CLASS ALCOVE & WINDOW
Scale: 1:10



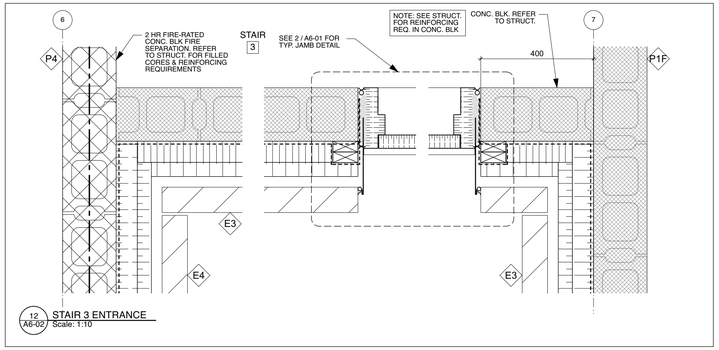
9 A6-02 CLASS ALCOVE & WINDOW ABV
Scale: 1:10



10 A6-02 B&A OPERABLE PARTITION
Scale: 1:10



11 A6-02 ACOUSTIC PARTITION @ COL.
Scale: 1:10



12 A6-02 STAIR 3 ENTRANCE
Scale: 1:10

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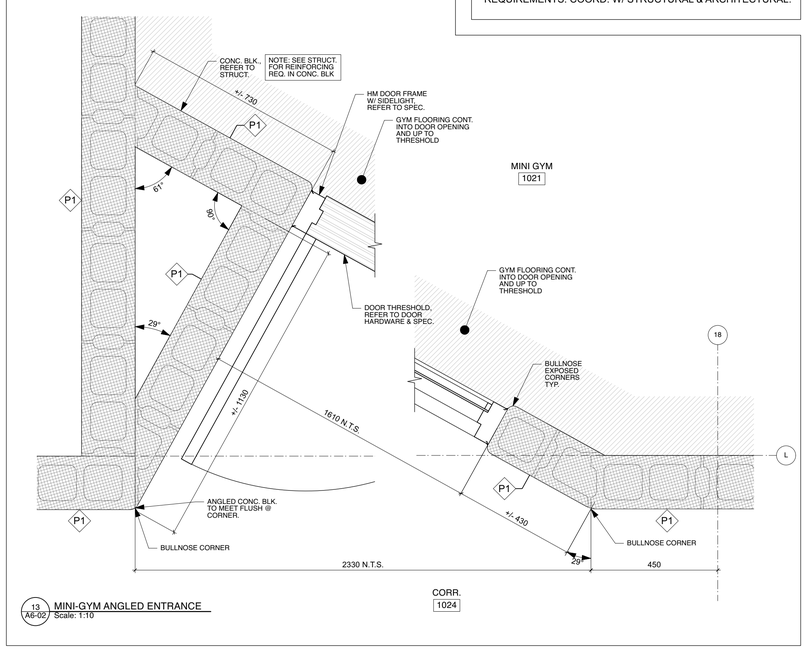

13 A6-02 MINI-GYM ANGLED ENTRANCE
Scale: 1:10

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issue / rev.

#	date	issue notes
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professional seals

PROVINCE OF MANITOBA — LINDSAY OSTER — 2023-03-24 — REGISTERED ARCHITECT

PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. — No. 025 — REGISTERED ARCHITECTURAL CORPORATION

project information

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91 Parkland Drive
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Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

drawing information

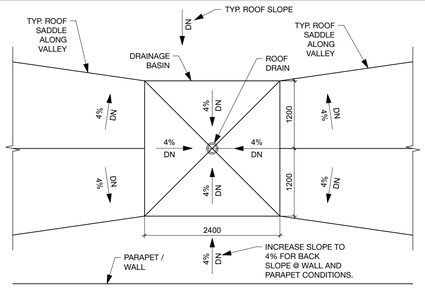
PLAN DETAILS

drawn by: **SK**
approved by: **LO**

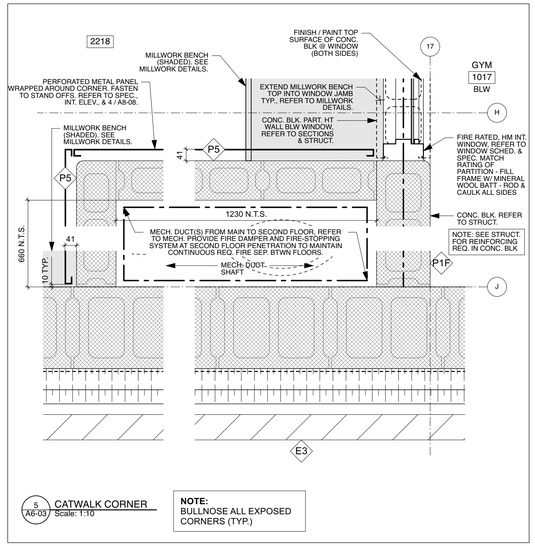
scale: **1:100**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

A6 02

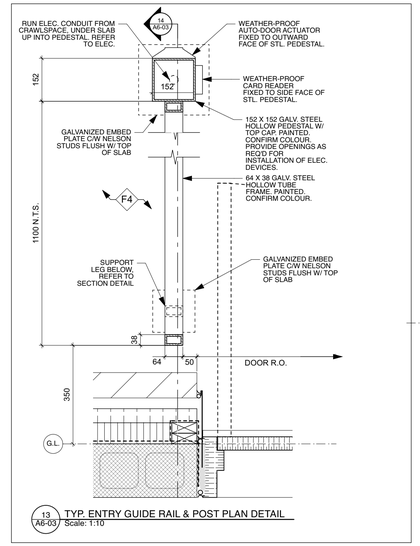


1 A6-03 TYP. ROOF DRAIN BASIN
Scale: 1:50

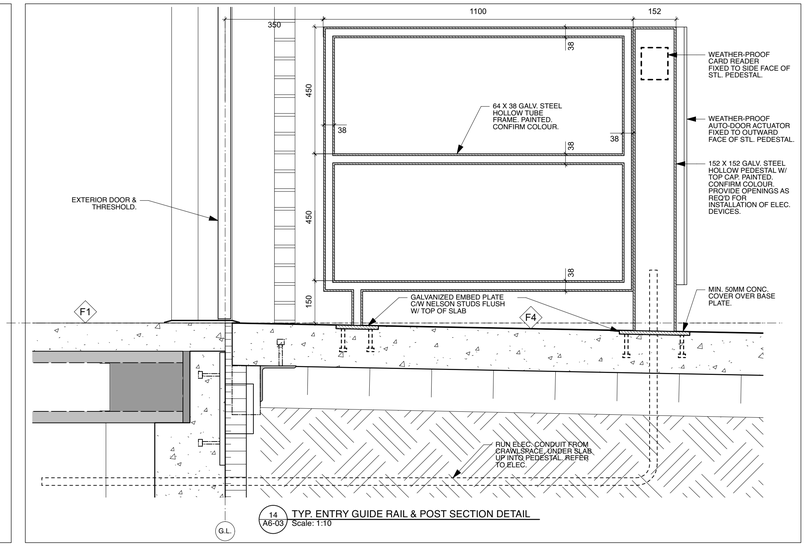


5 A6-03 CATWALK CORNER
Scale: 1:10

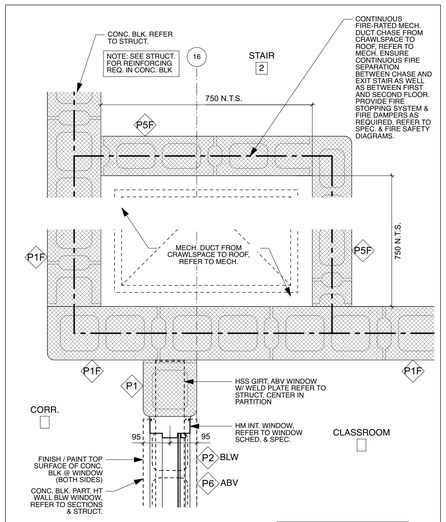
NOTE:
BULLNOSE ALL EXPOSED CORNERS (TYP.)



13 A6-03 TYP. ENTRY GUIDE RAIL & POST PLAN DETAIL
Scale: 1:10



14 A6-03 TYP. ENTRY GUIDE RAIL & POST SECTION DETAIL
Scale: 1:10



2 A6-03 MECH. CHASE AT STAIR 2
Scale: 1:10

NOTE:
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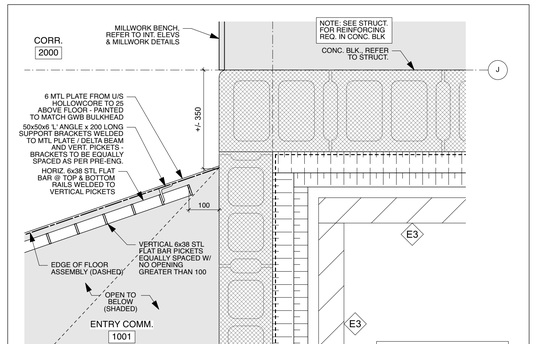
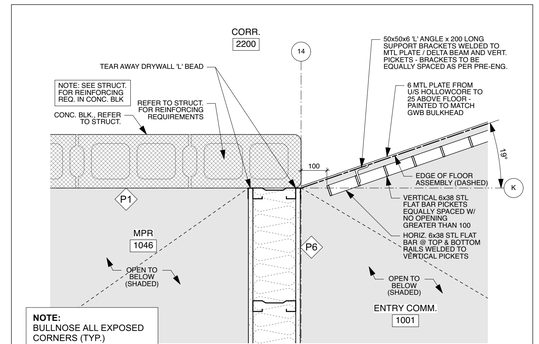


6 A6-03 CATWALK CORNER
Scale: 1:10

NOTE:
BULLNOSE ALL EXPOSED CORNERS (TYP.)



7 A6-03 CATWALK CORNER
Scale: 1:10

NOTE:
BULLNOSE ALL EXPOSED CORNERS (TYP.)

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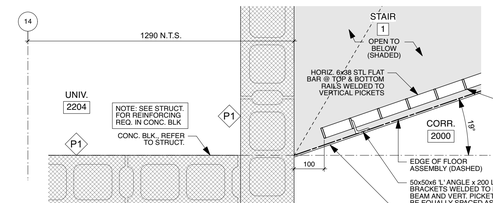
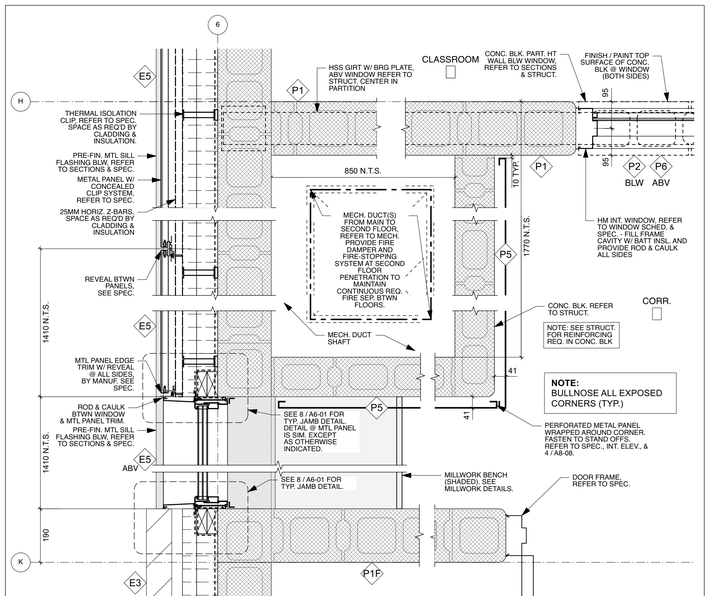


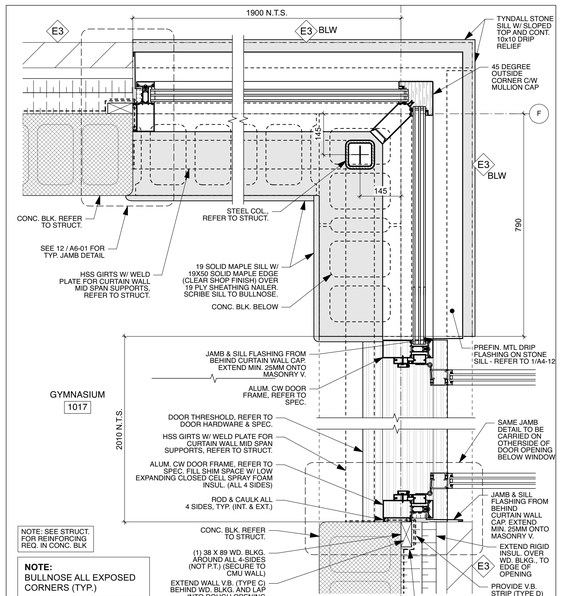
8 A6-03 CATWALK CORNER
Scale: 1:10

NOTE:
BULLNOSE ALL EXPOSED CORNERS (TYP.)



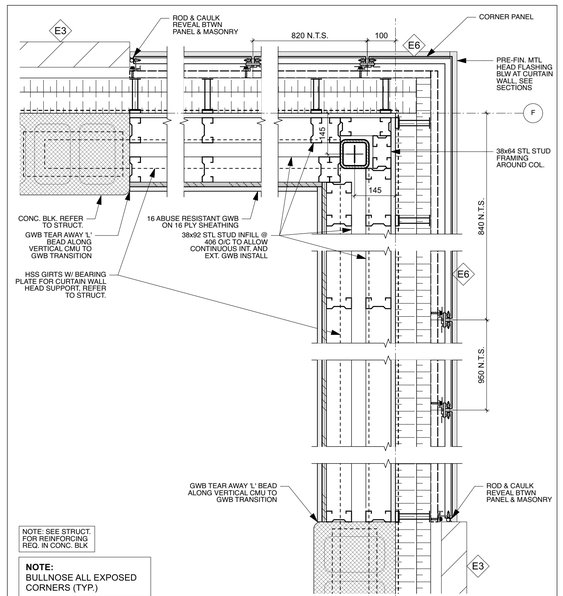
3 A6-03 WINDOW JAMB @ METAL PANEL, MECH. SHAFT, & BENCH
Scale: 1:10

4 A6-03 TYP. INT. DOOR JAMB
Scale: 1:10



9 A6-03 GYM CORNER WINDOW @ LOW LEVEL
Scale: 1:10

NOTE:
BULLNOSE ALL EXPOSED CORNERS (TYP.)



10 A6-03 GYM CORNER WINDOW @ HIGH LEVEL
Scale: 1:10

NOTE:
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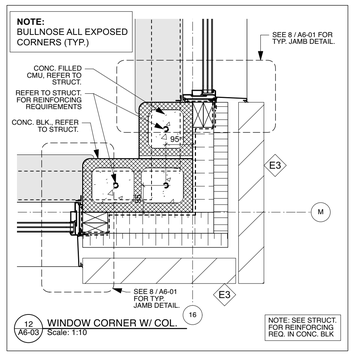
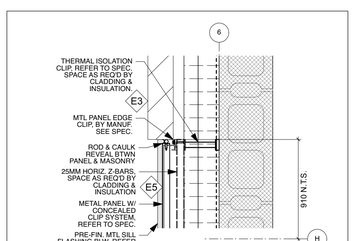


12 A6-03 WINDOW CORNER W/ COL.
Scale: 1:10



11 A6-03 TYP. BRICK TO METAL PANEL
Scale: 1:10

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issue / rev.

#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

PROVINCE OF MANITOBA — LINDSAY OSTER — 2023-03-24 — REGISTERED ARCHITECT

PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. No. 025 — APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

drawing information

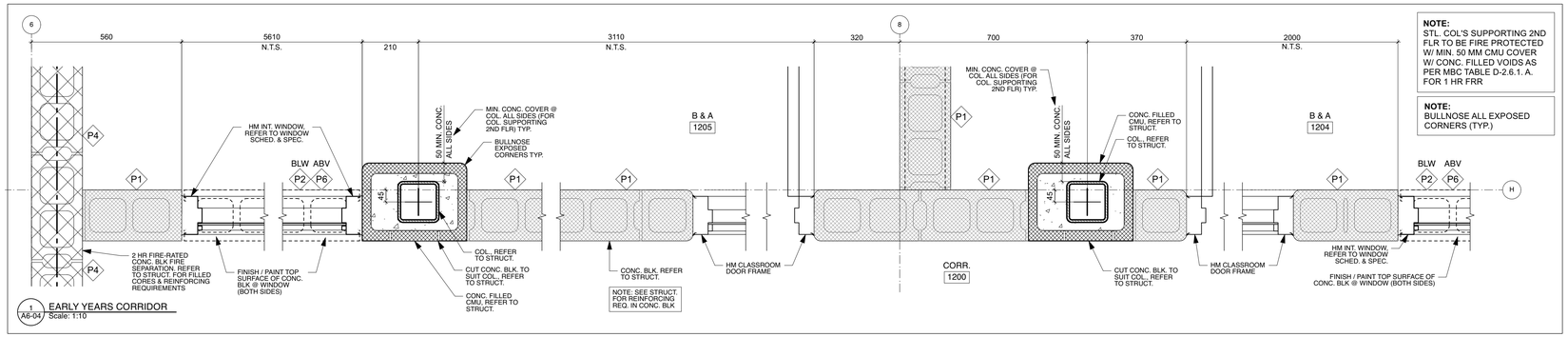
PLAN DETAILS

drawn by: **SK**
approved by: **LO**

scale: **1:100**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

A6 03



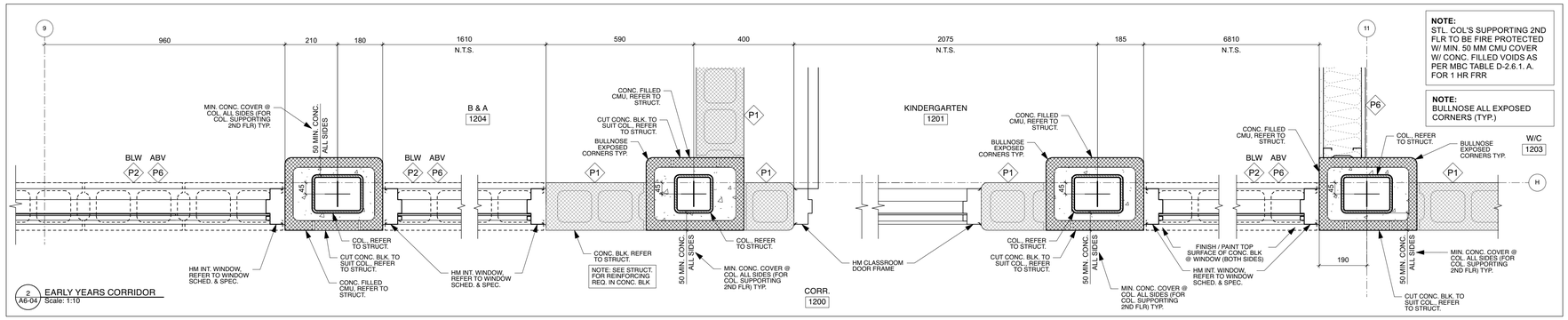
NOTE:
STL. COL'S SUPPORTING 2ND FLR TO BE FIRE PROTECTED W/ MIN. 50 MM CMU COVER W/ CONC. FILLED VOIDS AS PER MBC TABLE D-2.6.1. A. FOR 1 HR FRR

NOTE:
BULLNOSE ALL EXPOSED CORNERS (TYP.)

1 A6-04 EARLY YEARS CORRIDOR
Scale: 1:10

GENERAL NOTES - PLAN DETAILS:

STANDARD CONCRETE BLOCK COURSING FOR PARTITIONS & WALLS IS SHOWN IN PLAN DETAILS FOR REPRESENTATION PURPOSES ONLY TYP. MASON TO COORDINATE FINAL BLOCK COURSING TO BEST SUIT STRUCTURAL AND ARCHITECTURAL REQUIREMENTS. COORD. W/ STRUCTURAL & ARCHITECTURAL.



NOTE:
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NOTE:
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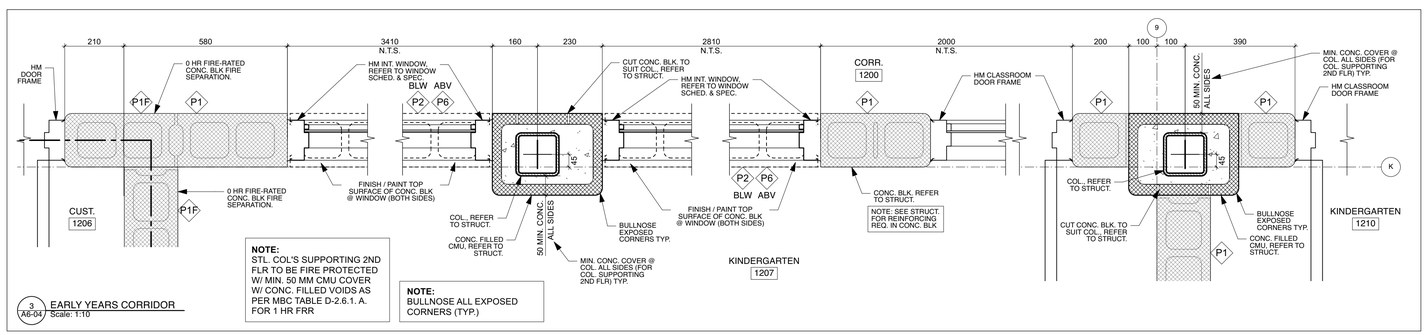
2 A6-04 EARLY YEARS CORRIDOR
Scale: 1:10



NOTE:
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NOTE:
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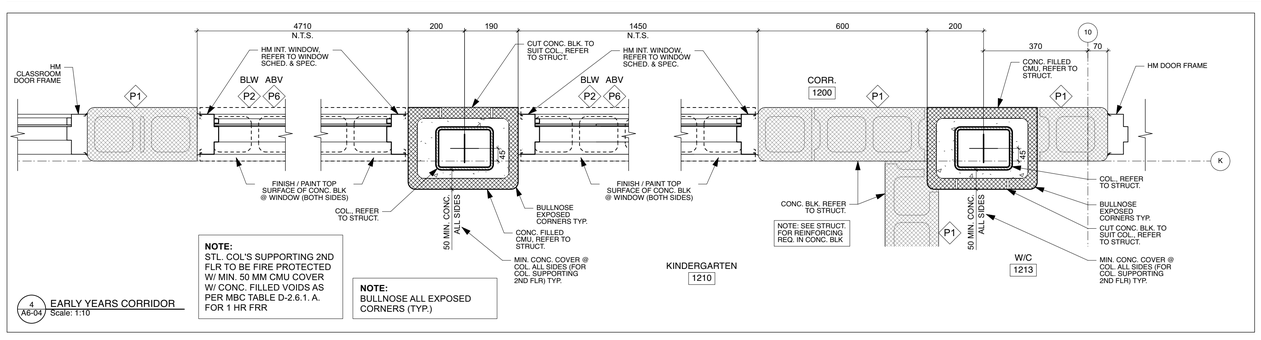
3 A6-04 EARLY YEARS CORRIDOR
Scale: 1:10



NOTE:
STL. COL'S SUPPORTING 2ND FLR TO BE FIRE PROTECTED W/ MIN. 50 MM CMU COVER W/ CONC. FILLED VOIDS AS PER MBC TABLE D-2.6.1. A. FOR 1 HR FRR

NOTE:
BULLNOSE ALL EXPOSED CORNERS (TYP.)

4 A6-04 EARLY YEARS CORRIDOR
Scale: 1:10

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issue / rev.

#	date	issue notes
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PROVINCE OF MANITOBA — LINDSAY OSTER — 2023-03-24 — REGISTERED ARCHITECT

PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. — No. 028 — APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

drawing information

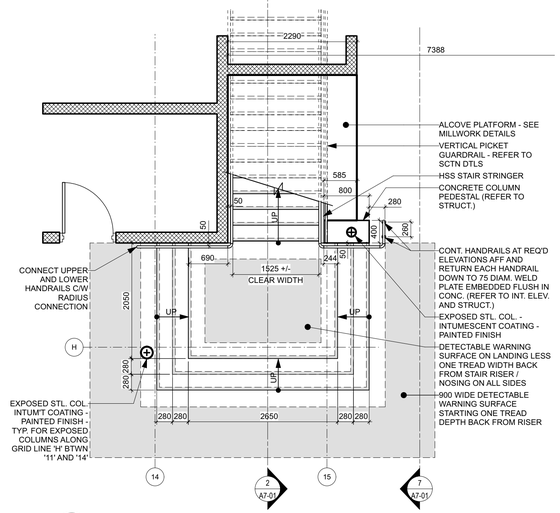
PLAN DETAILS

drawn by: **SK**
approved by: **LO**

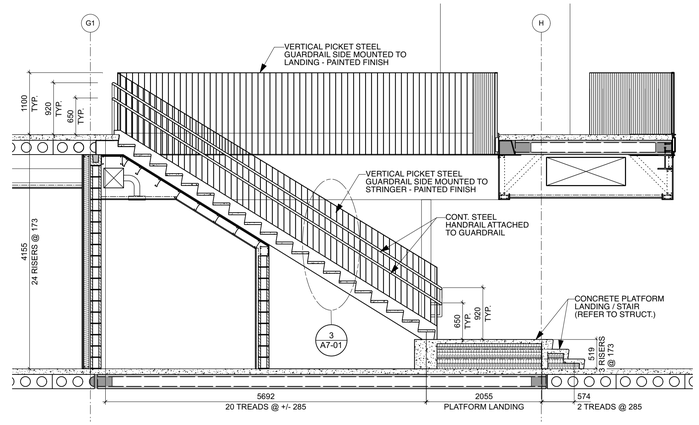
scale: **1:100**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

A6 04



1 A7-01 STAIR 1 - MAIN FLOOR PLAN
Scale: 1:50



2 A7-01 STAIR 1 - SECTION 1
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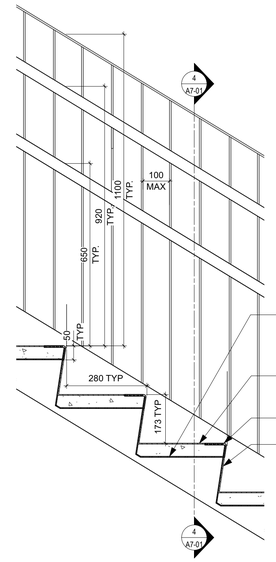
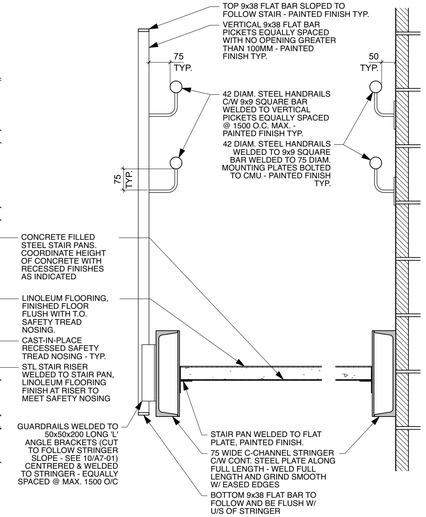


3 A7-01 STAIR 1 TREAD/RISER SECTION
Scale: 1:10



4 A7-01 STAIR 1 DETAIL
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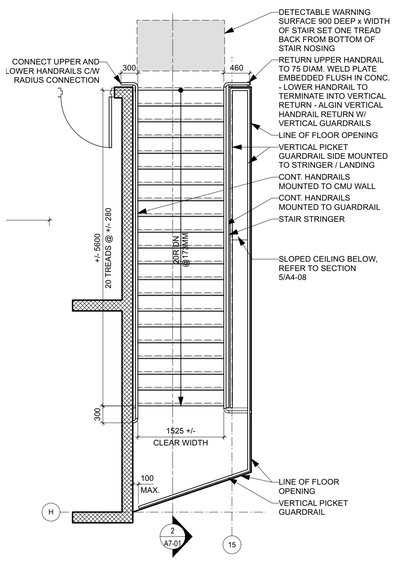

6 A7-01 STAIR 1 - 2ND FLOOR PLAN
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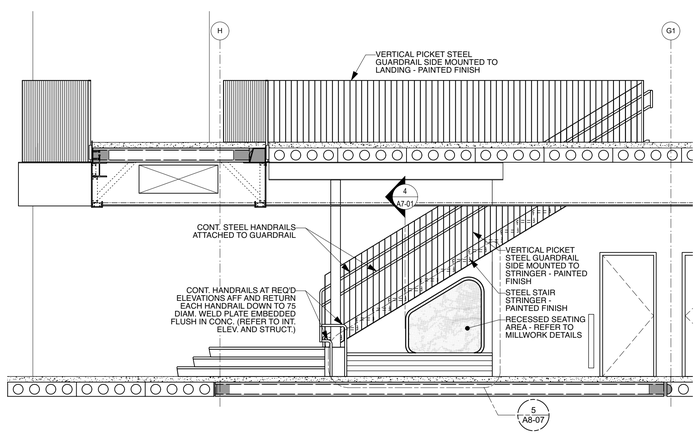

7 A7-01 STAIR 1 - ELEVATION
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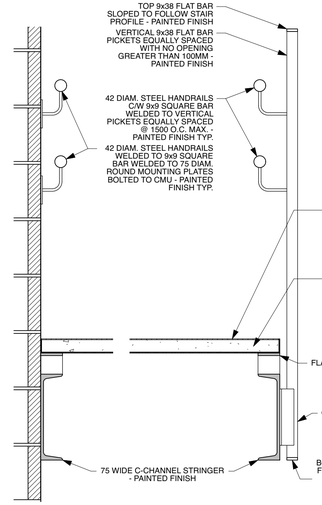
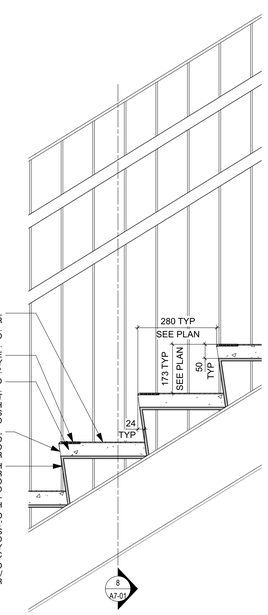


8 A7-01 STAIR 2&3 DETAIL
Scale: 1:10



9 A7-01 STAIR 2&3 TREAD/RISER SECTION
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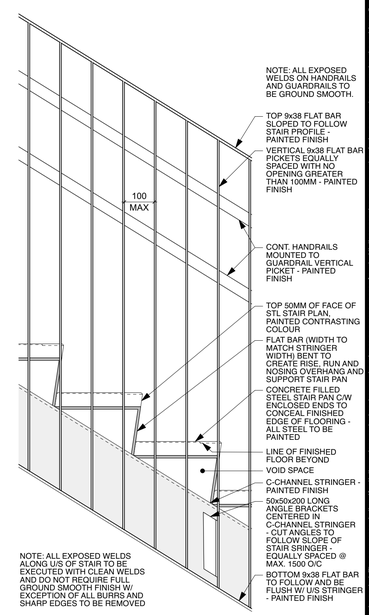

10 A7-01 STAIR 2&3 GUARD ELEVATION
Scale: 1:10

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1	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

PROVINCE OF MANITOBA — LINDSAY OSTER — 2023-03-24 — REGISTERED ARCHITECT

PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. No. 025 — APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

drawing information

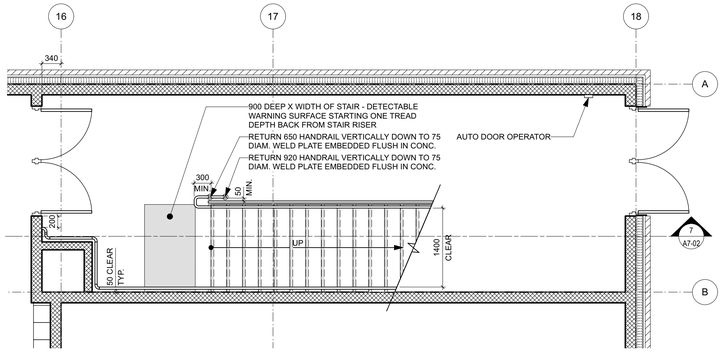
STAIR DETAILS

drawn by: **ER**
approved by: **LO**

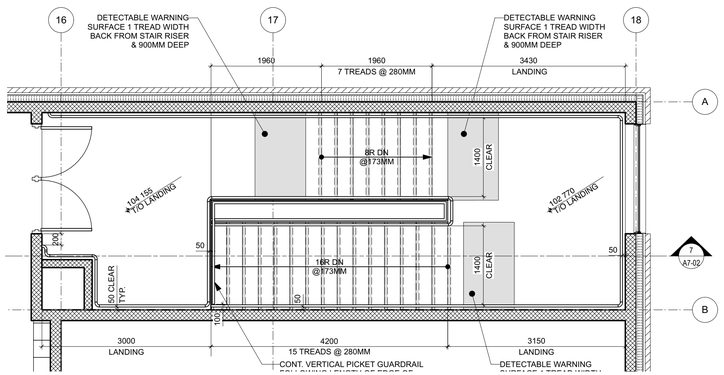
scale: **AS NOTED**
date issued: **2023.01.27**
proj. #: **2021.49**
rev. #: **R-0**

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

A7 01



1 A7-02 STAIR 2 - MAIN FLOOR PLAN
Scale: 1:50



2 A7-02 STAIR 2 - 2ND FLOOR PLAN
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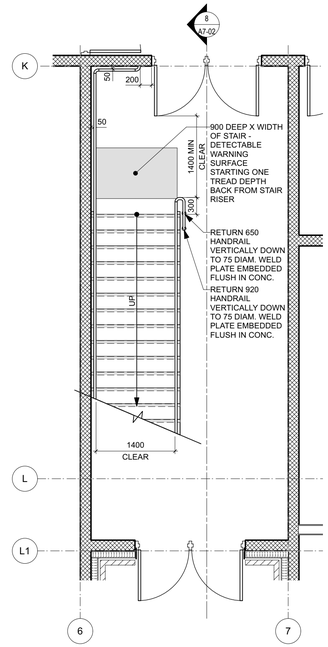
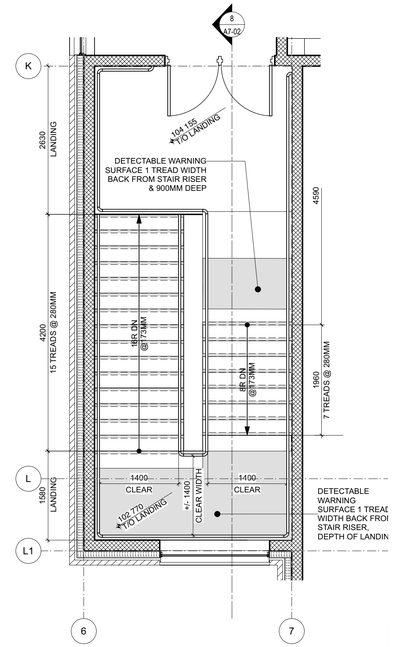


3 A7-02 STAIR 3 - MAIN FLOOR PLAN
Scale: 1:50



4 A7-02 STAIR 3 - 2ND FLOOR PLAN
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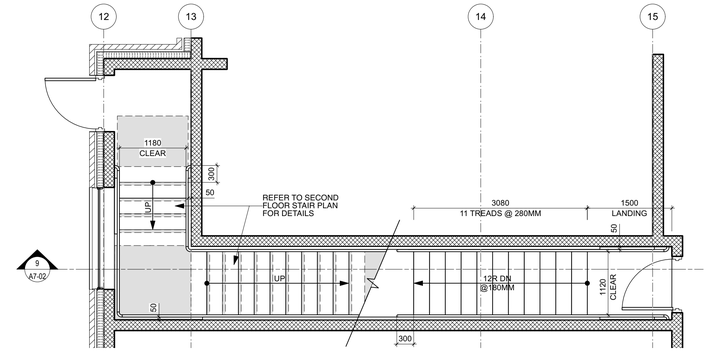

5 A7-02 STAIR 4 - MAIN FLOOR PLAN
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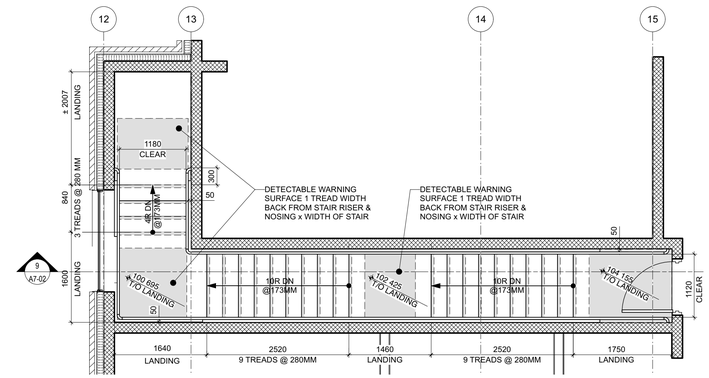
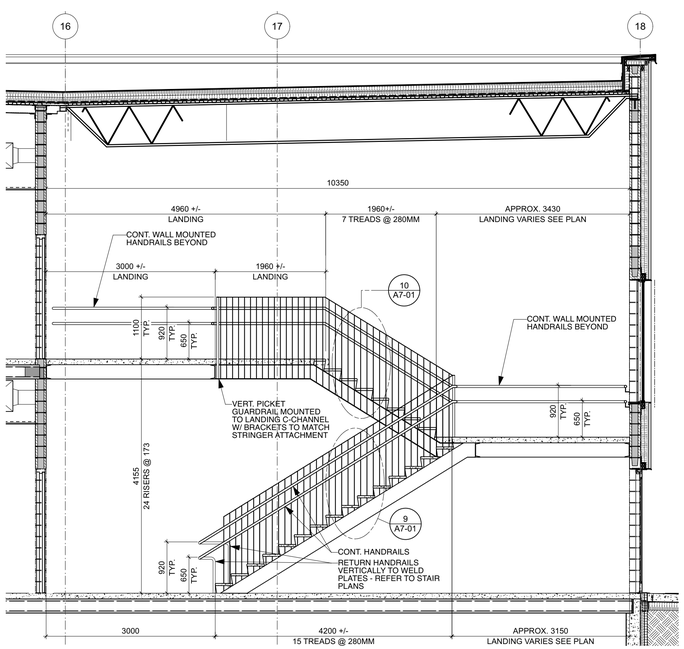


6 A7-02 STAIR 4 - 2ND FLOOR PLAN
Scale: 1:50



7 A7-02 STAIR 2 - SECTION
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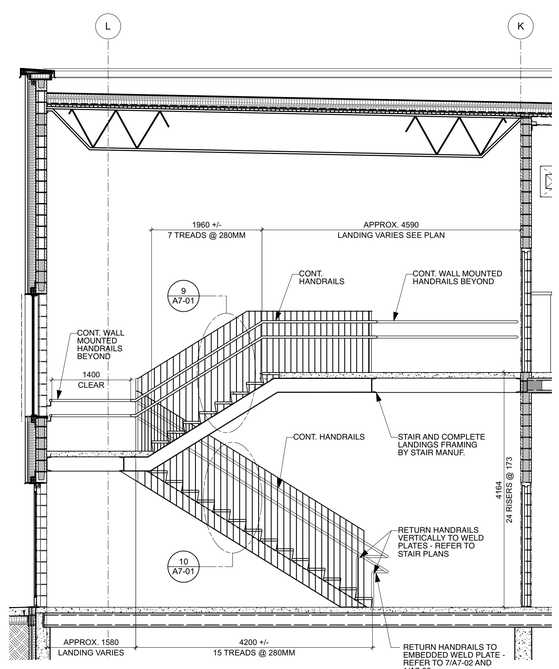

8 A7-02 STAIR 3 - SECTION
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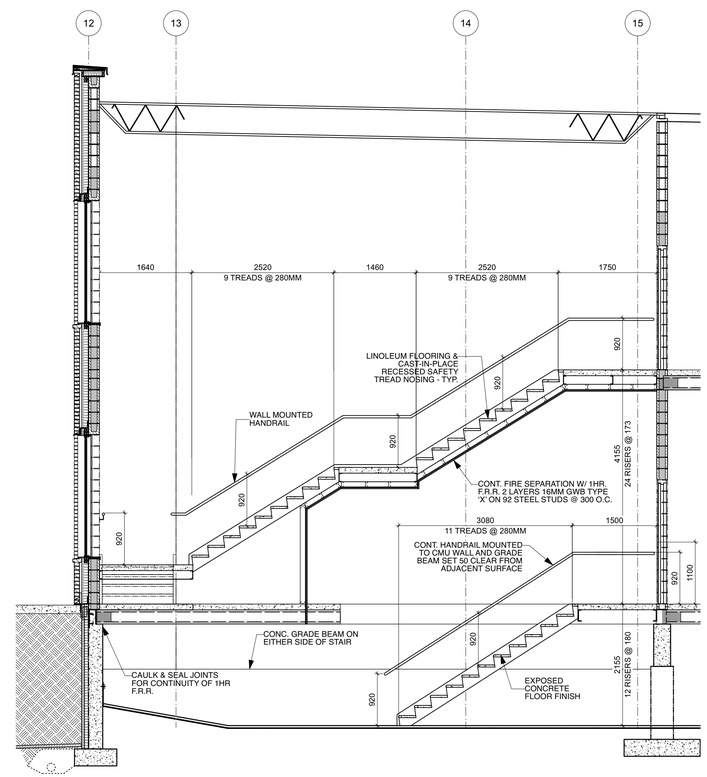

9 A7-02 STAIR 4&5 - SECTION
Scale: 1:50

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PROVINCE OF MANITOBA — LINDSAY OSTER — 2023-03-24 — REGISTERED ARCHITECT

PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. No. 025 — APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

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Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

drawing information

STAIR DETAILS

drawn by: **ER**
approved by: **LO**

scale: **AS NOTED**
date issued: **2023.01.27**
proj. #: **2021.49**
rev. #: **R-0**

A7 02

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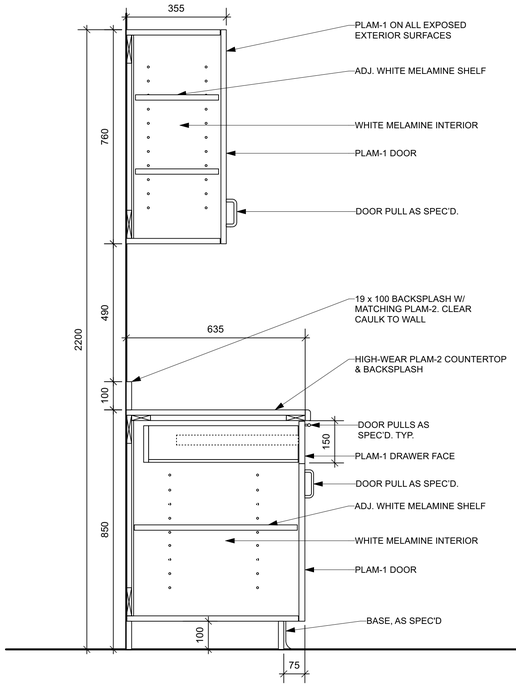
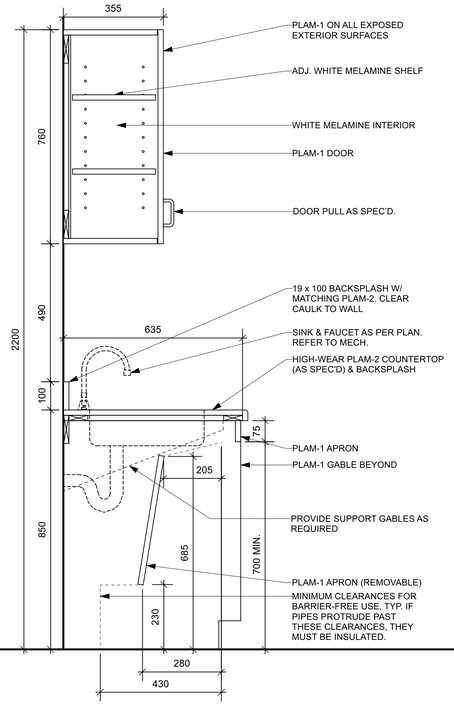


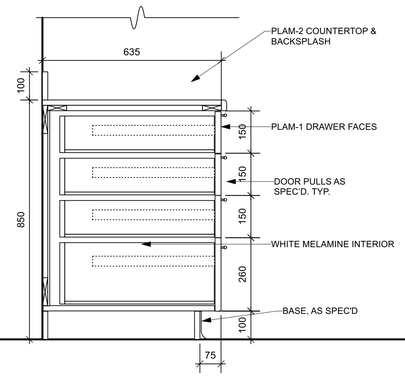
1 A8-01 CLASSROOM HEIGHT UPPER & LOWERS
Scale: 1:10

NOTES: REFER TO SPEC. 06 40 00 "ARCHITECTURAL WOODWORK" FOR LOCKING LOCATIONS & REQUIREMENTS, HARDWARE, & FINISHING REQUIREMENTS.



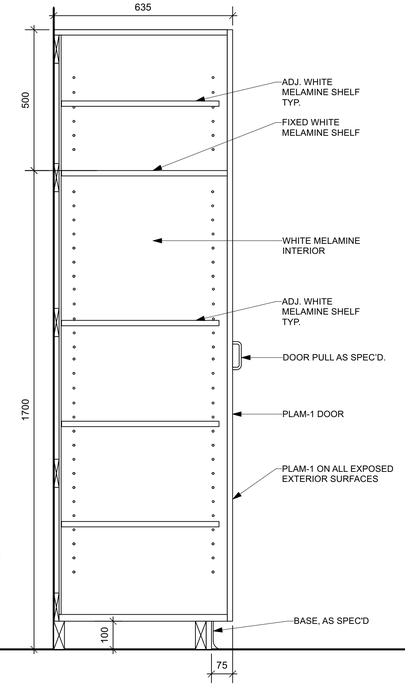
2 A8-01 TYP. B/F SINK W/ UPPERS
Scale: 1:10

NOTES: REFER TO SPEC. 06 40 00 "ARCHITECTURAL WOODWORK" FOR LOCKING LOCATIONS & REQUIREMENTS, HARDWARE, & FINISHING REQUIREMENTS.



3 A8-01 CLASSROOM LOWER DRAWERS
Scale: 1:10

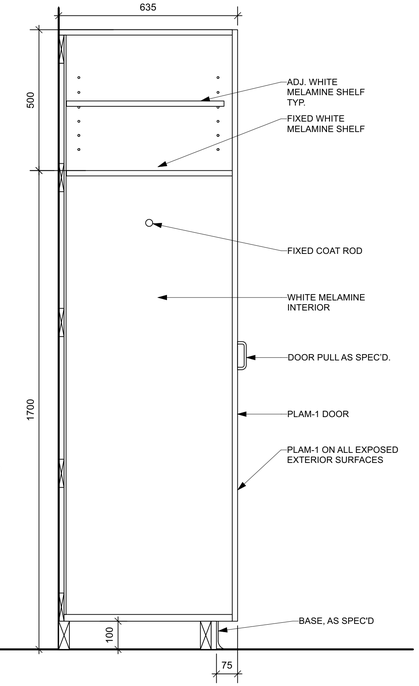
NOTES: REFER TO SPEC. 06 40 00 "ARCHITECTURAL WOODWORK" FOR LOCKING LOCATIONS & REQUIREMENTS, HARDWARE, & FINISHING REQUIREMENTS.



4 A8-01 TYP. TALL STORAGE SECTION
Scale: 1:10

NOTES: REFER TO SPEC. 06 40 00 "ARCHITECTURAL WOODWORK" FOR LOCKING LOCATIONS & REQUIREMENTS, HARDWARE, & FINISHING REQUIREMENTS.

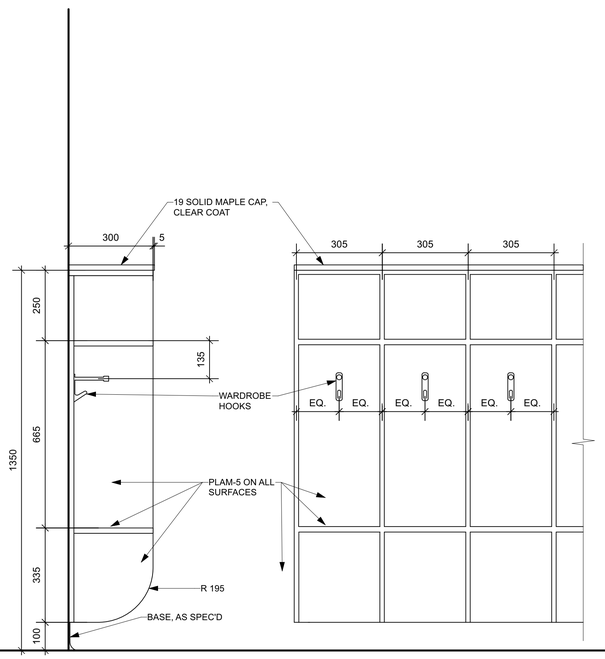
IF THIS SECTION IS COMBINED WITH ANOTHER SECTION, PROVIDE GABLE BETWEEN.



5 A8-01 TALL STORAGE W/ COAT ROD SECTION
Scale: 1:10

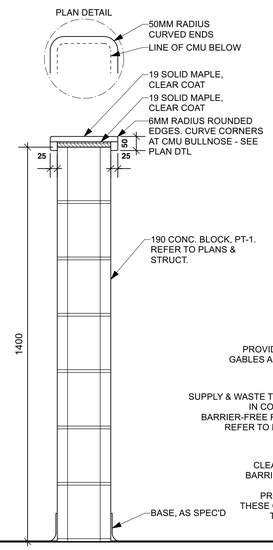
NOTES: REFER TO SPEC. 06 40 00 "ARCHITECTURAL WOODWORK" FOR LOCKING LOCATIONS & REQUIREMENTS, HARDWARE, & FINISHING REQUIREMENTS.

IF THIS SECTION IS COMBINED WITH ANOTHER SECTION, PROVIDE GABLE BETWEEN.

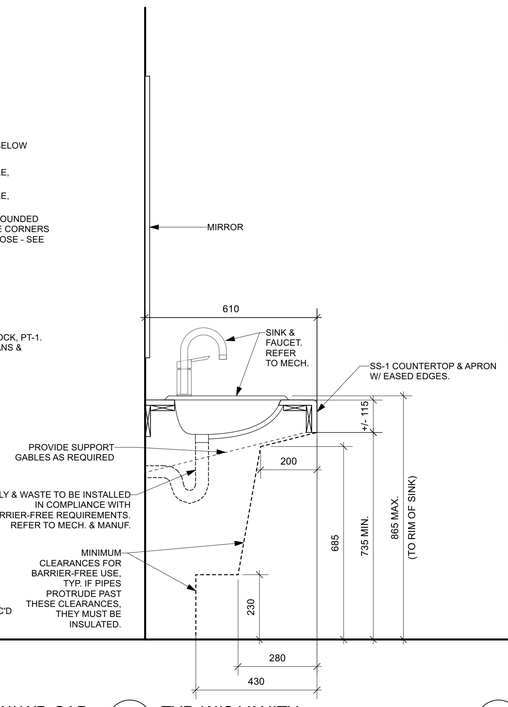


A. SECTION B. ELEVATION

6 A8-01 TYP. CORRIDOR CUBBIES SECTION
Scale: 1:10



7 A8-01 TYP. PARTIAL HT CONC. BLK WALL W/ WD CAP
Scale: 1:10



8 A8-01 TYP. W/C VANITY
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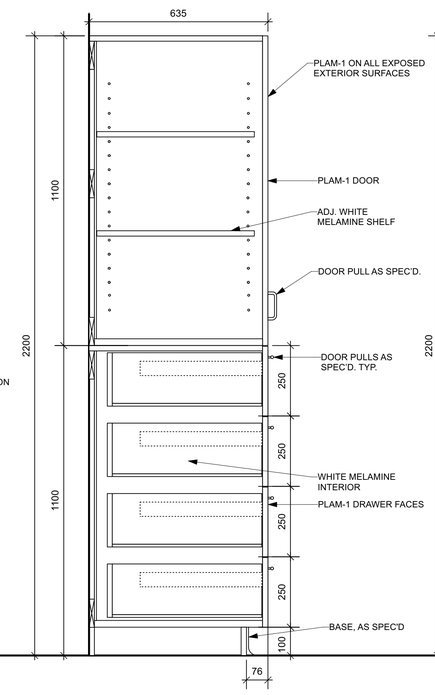

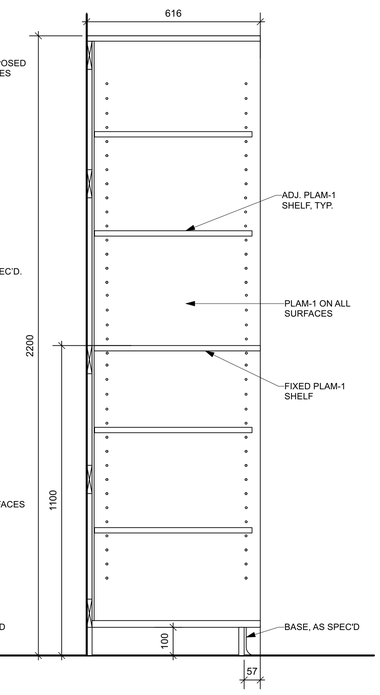

9 A8-01 TALL STORAGE CABINET W/ DRAWERS
Scale: 1:10

NOTES: REFER TO SPEC. 06 40 00 "ARCHITECTURAL WOODWORK" FOR LOCKING LOCATIONS & REQUIREMENTS

10 A8-01 OPEN TALL STORAGE
Scale: 1:10

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telephone | 204-945-8803 **fax** | 204-948-2001

issue / rev.

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PROVINCE OF MANITOBA LINDSAY OSTER 2023-03-24 REGISTERED ARCHITECT

PROVINCE OF MANITOBA PRAIRIE ARCHITECTS INC. No. 026 APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

drawing information

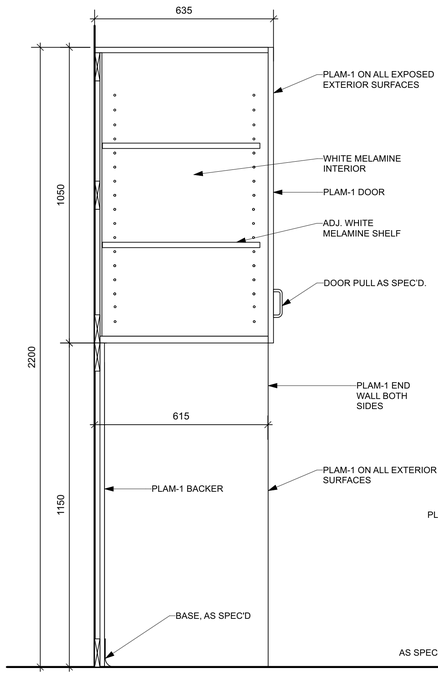
MILLWORK DETAILS

drawn by: **SK**
approved by: **LO**

scale: **1:100**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

A8 01



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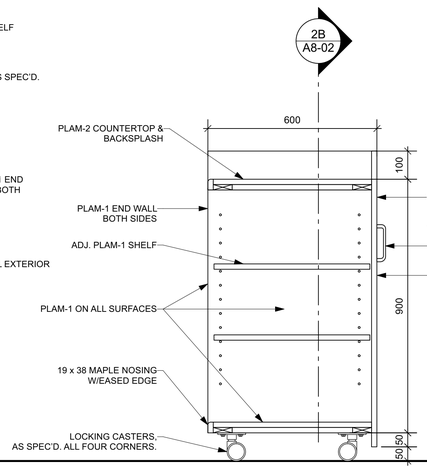
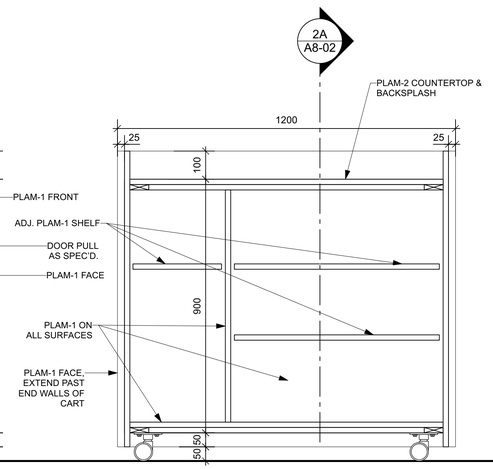
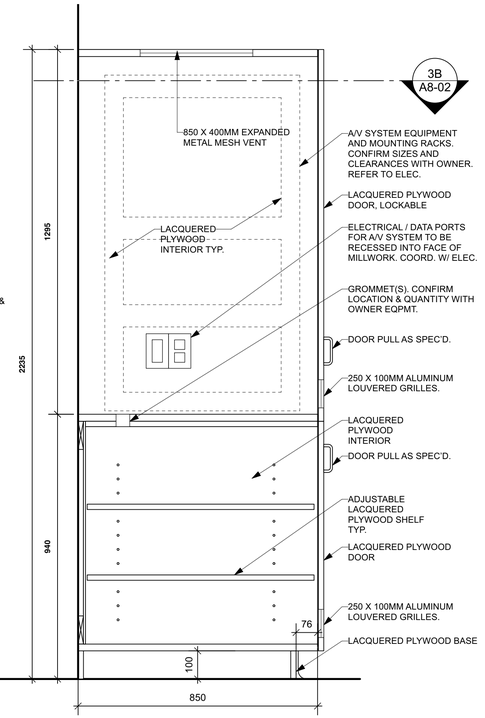


B. SECTION

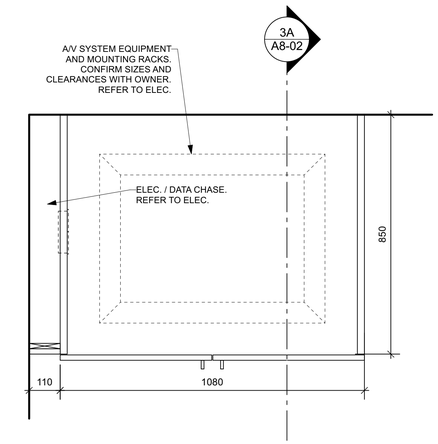


1 A8-02 TALL STORAGE CABINET W/ SPACE FOR CART
Scale: 1:10

NOTES: REFER TO SPEC. 06 40 00 "ARCHITECTURAL WOODWORK" FOR LOCKING LOCATIONS & REQUIREMENTS



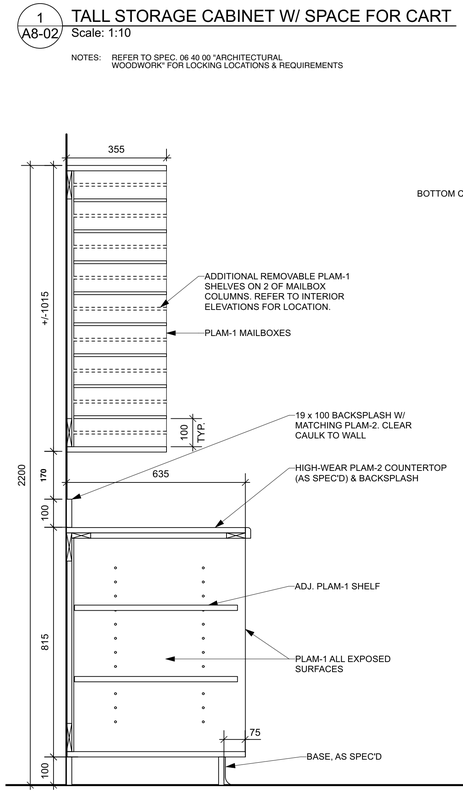
A. SECTION



B. PLAN DETAIL

3 A8-02 A/V CABINET
Scale: 1:10

NOTES: REFER TO SPEC. 06 40 00 "ARCHITECTURAL WOODWORK" FOR LOCKING LOCATIONS & REQUIREMENTS



4 A8-02 MAILBOX MILLWORK
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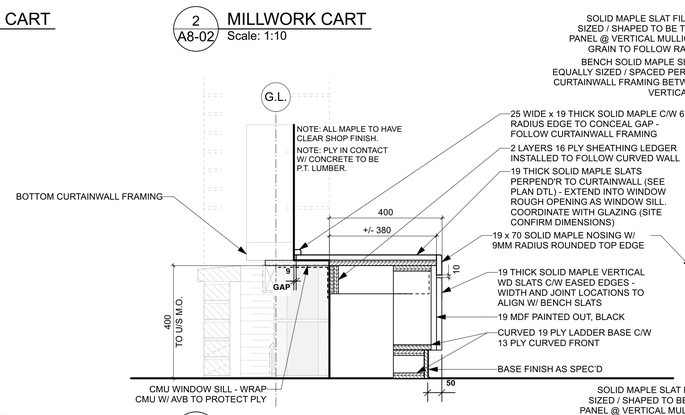
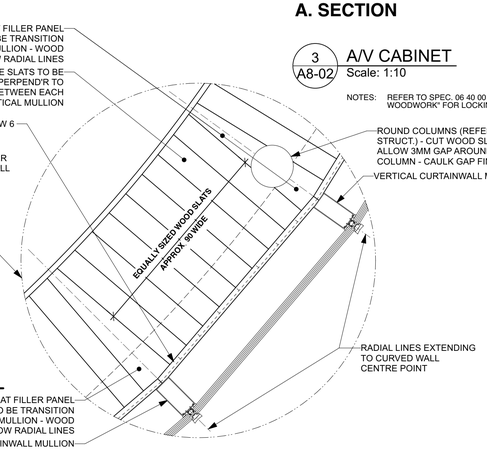
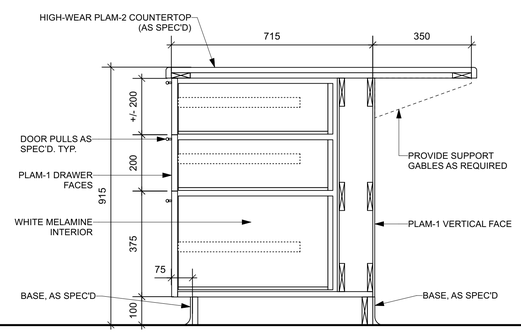


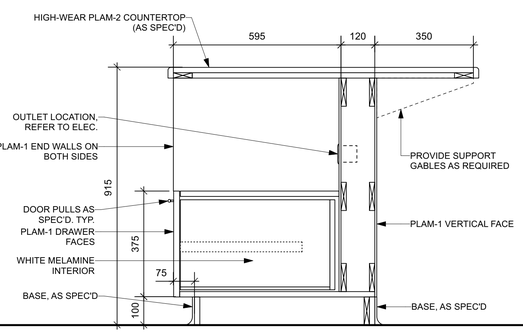
9 A8-02 CURVED BENCH
Scale: 1:10





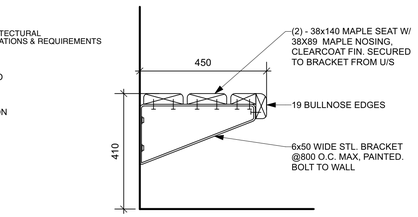
5 A8-02 STAFF ROOM ISLAND @ DRAWERS
Scale: 1:10

NOTES: REFER TO SPEC. 06 40 00 "ARCHITECTURAL WOODWORK" FOR LOCKING LOCATIONS & REQUIREMENTS, HARDWARE, & FINISHING REQUIREMENTS.

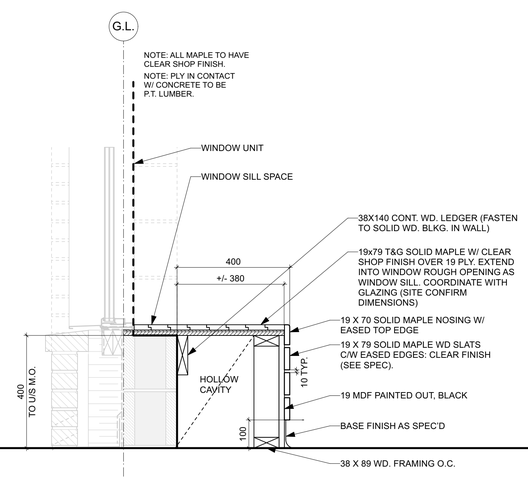


6 A8-02 STAFF ROOM ISLAND @ MICROWAVE
Scale: 1:10

NOTES: REFER TO SPEC. 06 40 00 "ARCHITECTURAL WOODWORK" FOR LOCKING LOCATIONS & REQUIREMENTS, HARDWARE, & FINISHING REQUIREMENTS.



7 A8-02 CHANGE ROOM BENCH
Scale: 1:10



8 A8-02 WINDOW BENCH @ LOW WINDOW
Scale: 1:10

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professional seals

PROVINCE OF MANITOBA — LINDSAY OSTER — 2023-03-24 — REGISTERED ARCHITECT

PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. — No. 026 — APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

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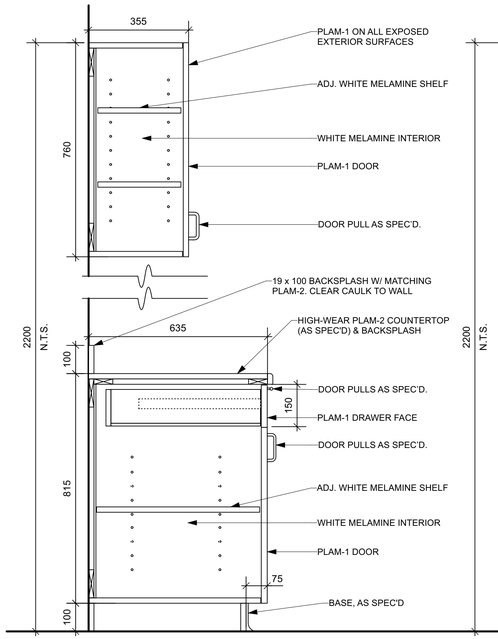
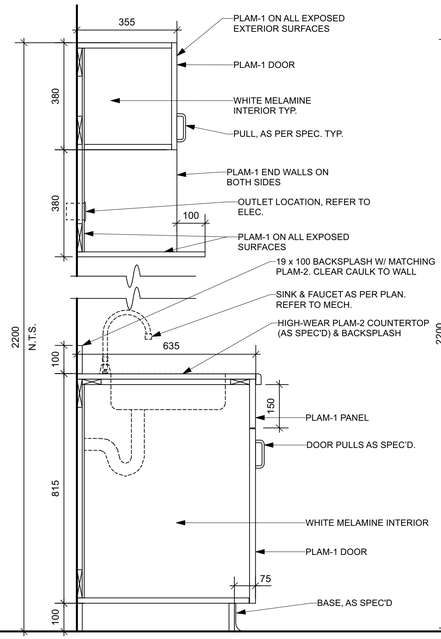
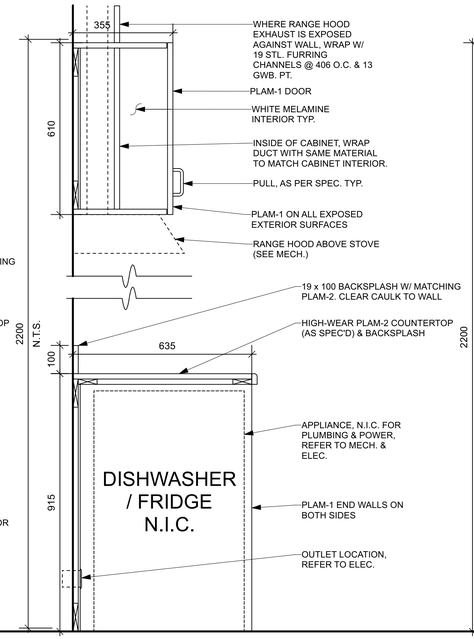


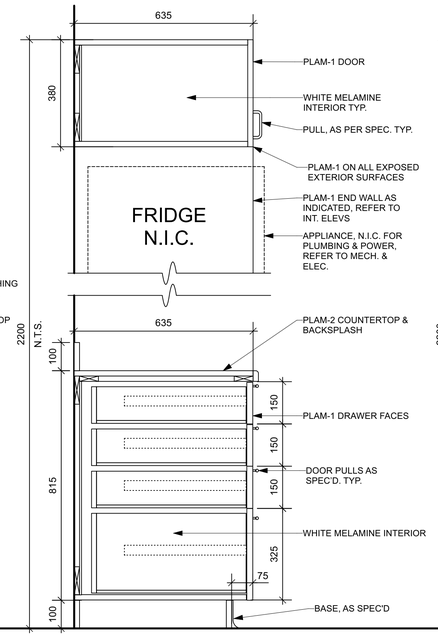
1 A8-03 TYP. UPPER STORAGE
Scale: 1:10
NOTES: REFER TO SPEC. 06 40 00 "ARCHITECTURAL WOODWORK" FOR LOCKING LOCATIONS & REQUIREMENTS, HARDWARE, & FINISHING REQUIREMENTS.



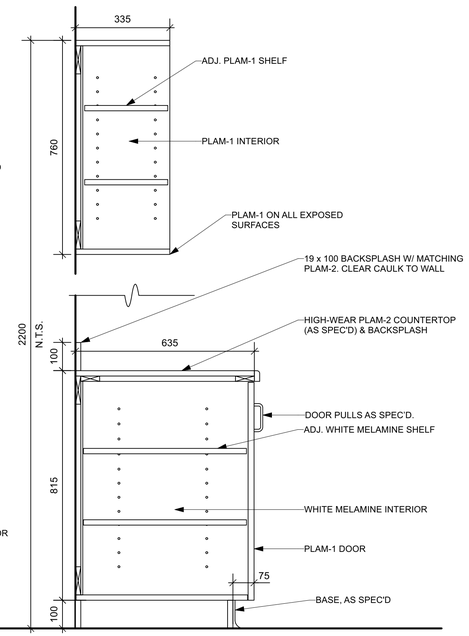
3 A8-03 UPPER STORAGE @ MICROWAVE
Scale: 1:10
NOTES: REFER TO SPEC. 06 40 00 "ARCHITECTURAL WOODWORK" FOR LOCKING LOCATIONS & REQUIREMENTS, HARDWARE, & FINISHING REQUIREMENTS.



5 A8-03 UPPER STORAGE @ RANGE HOOD
Scale: 1:10
NOTES: REFER TO SPEC. 06 40 00 "ARCHITECTURAL WOODWORK" FOR LOCKING LOCATIONS & REQUIREMENTS, HARDWARE, & FINISHING REQUIREMENTS.



7 A8-03 UPPER STORAGE @ FRIDGE
Scale: 1:10
NOTES: REFER TO SPEC. 06 40 00 "ARCHITECTURAL WOODWORK" FOR LOCKING LOCATIONS & REQUIREMENTS, HARDWARE, & FINISHING REQUIREMENTS.



9 A8-03 UPPER STORAGE - OPEN
Scale: 1:10
NOTES: REFER TO SPEC. 06 40 00 "ARCHITECTURAL WOODWORK" FOR LOCKING LOCATIONS & REQUIREMENTS, HARDWARE, & FINISHING REQUIREMENTS.

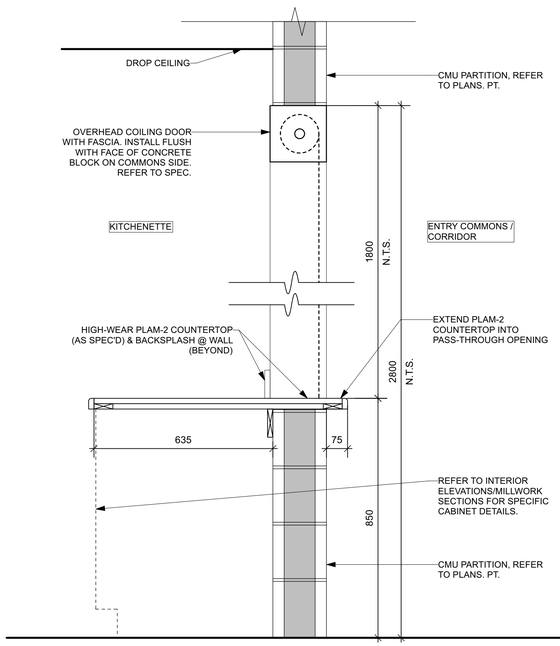
2 A8-03 TYP. HEIGHT LOWERS
Scale: 1:10
NOTES: REFER TO SPEC. 06 40 00 "ARCHITECTURAL WOODWORK" FOR LOCKING LOCATIONS & REQUIREMENTS, HARDWARE, & FINISHING REQUIREMENTS.

4 A8-03 TYP. HEIGHT LOWER @ SINK
Scale: 1:10
NOTES: REFER TO SPEC. 06 40 00 "ARCHITECTURAL WOODWORK" FOR LOCKING LOCATIONS & REQUIREMENTS, HARDWARE, & FINISHING REQUIREMENTS.

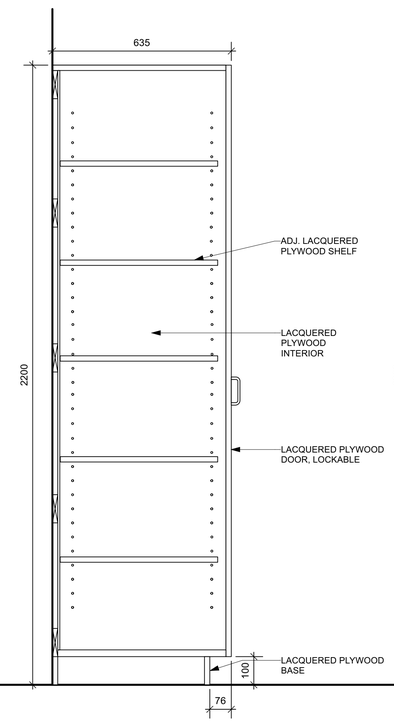
6 A8-03 TYP. HEIGHT LOWER @ APPLIANCE
Scale: 1:10
NOTES: REFER TO SPEC. 06 40 00 "ARCHITECTURAL WOODWORK" FOR LOCKING LOCATIONS & REQUIREMENTS, HARDWARE, & FINISHING REQUIREMENTS.

8 A8-03 TYP. HEIGHT LOWER W/ DRAWERS
Scale: 1:10
NOTES: REFER TO SPEC. 06 40 00 "ARCHITECTURAL WOODWORK" FOR LOCKING LOCATIONS & REQUIREMENTS, HARDWARE, & FINISHING REQUIREMENTS.

10 A8-03 TYP. HEIGHT LOWER CUPBOARD
Scale: 1:10
NOTES: REFER TO SPEC. 06 40 00 "ARCHITECTURAL WOODWORK" FOR LOCKING LOCATIONS & REQUIREMENTS, HARDWARE, & FINISHING REQUIREMENTS.



11 A8-03 COUNTERTOP & SERVERY
Scale: 1:10
NOTES: REFER TO SPEC. 06 40 00 "ARCHITECTURAL WOODWORK" FOR LOCKING LOCATIONS & REQUIREMENTS, HARDWARE, & FINISHING REQUIREMENTS.



12 A8-03 GYM STORAGE
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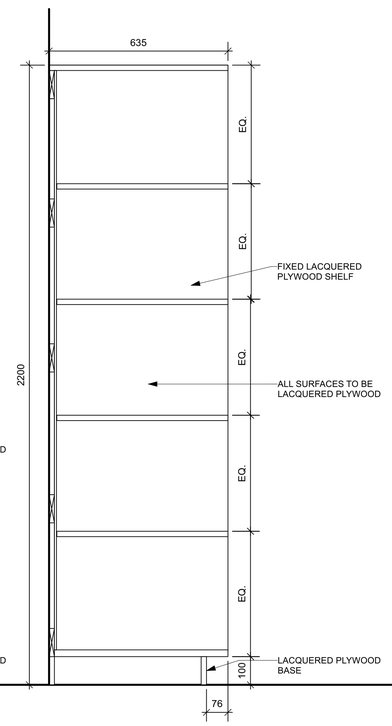
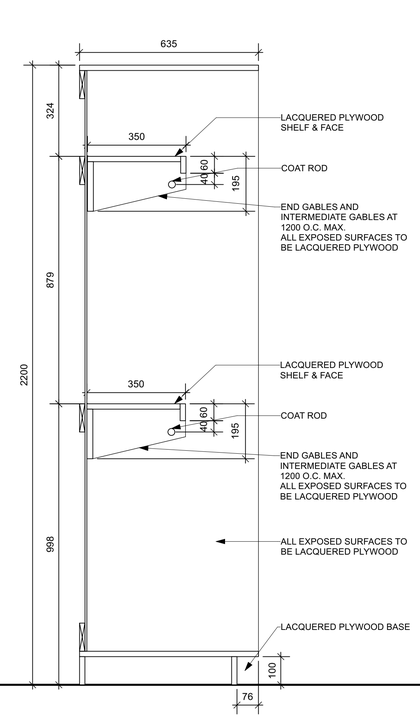
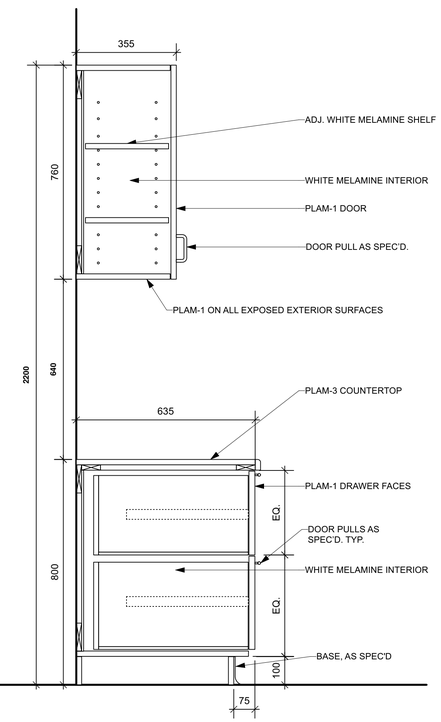


13 A8-03 GYM STORAGE
Scale: 1:10



14 A8-03 GYM STORAGE
Scale: 1:10



15 A8-03 LIBRARY DESK STORAGE
Scale: 1:10

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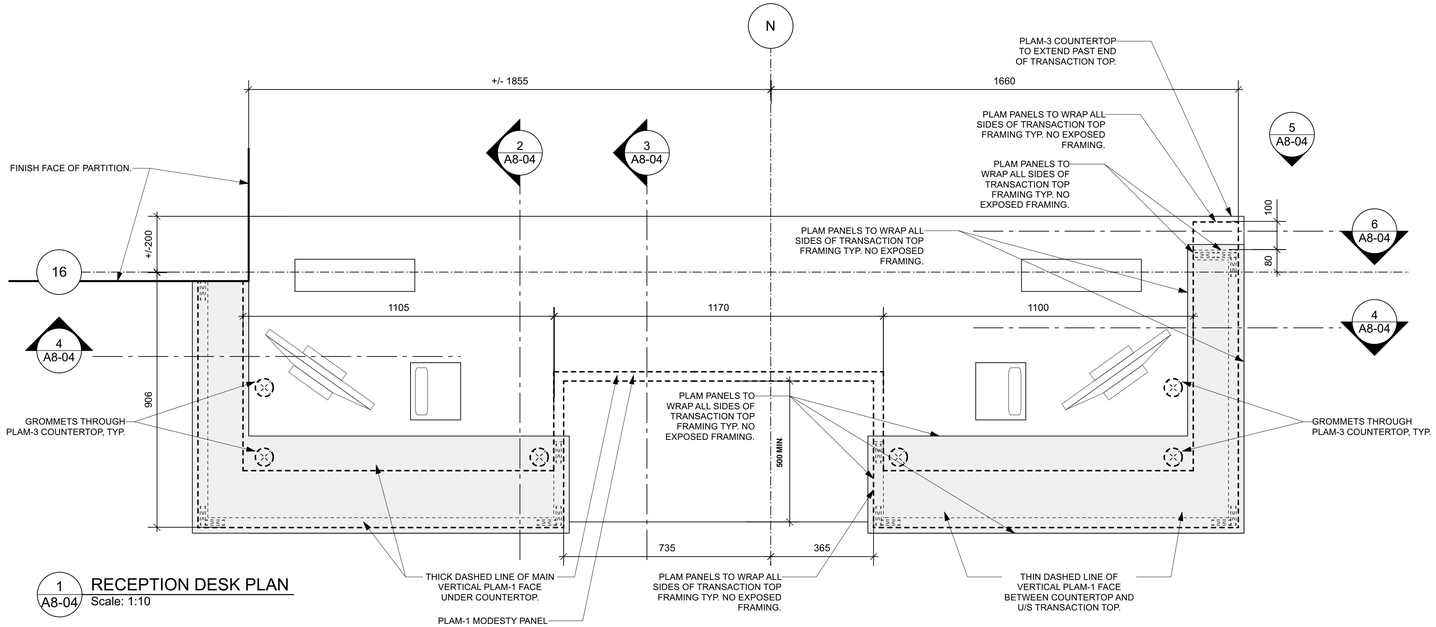
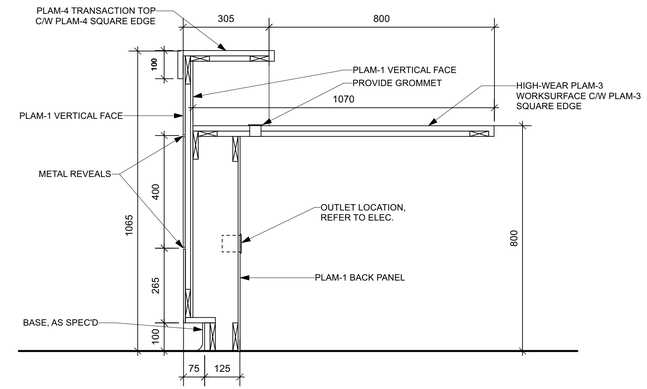
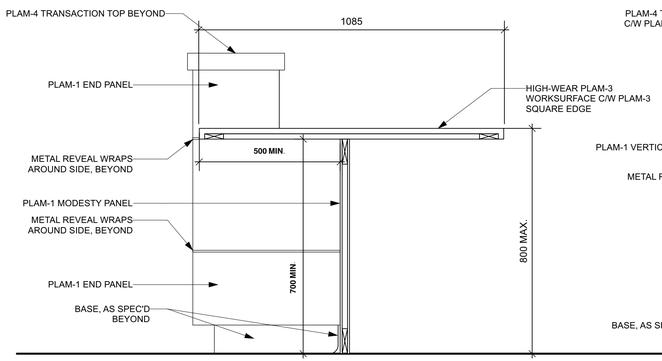
A8 03



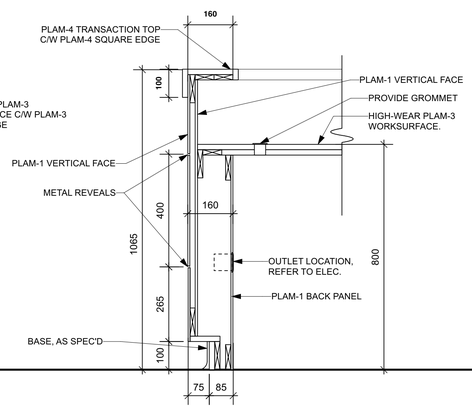
1 A8-04 RECEPTION DESK PLAN
Scale: 1:10



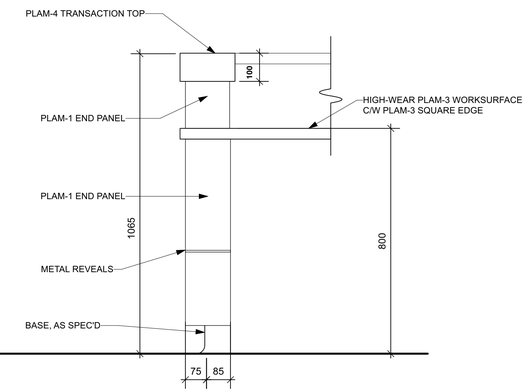
2 A8-04 RECEPTIONIST DESK @ TRANSACTION SURFACE
Scale: 1:10



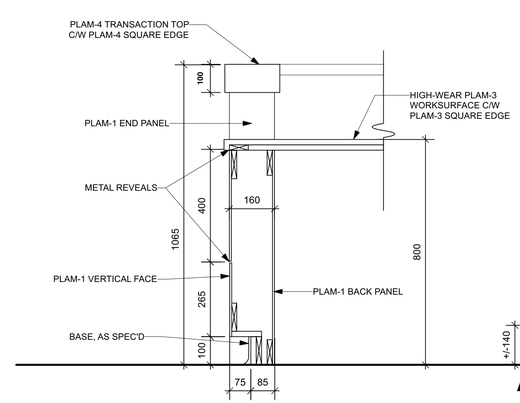
3 A8-04 RECEPTIONIST DESK @ ACCESSIBLE COUNTERTOP
Scale: 1:10



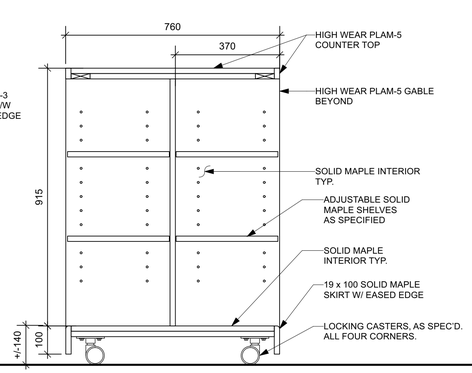
4 A8-04 RECEPTIONIST DESK @ SIDE
Scale: 1:10



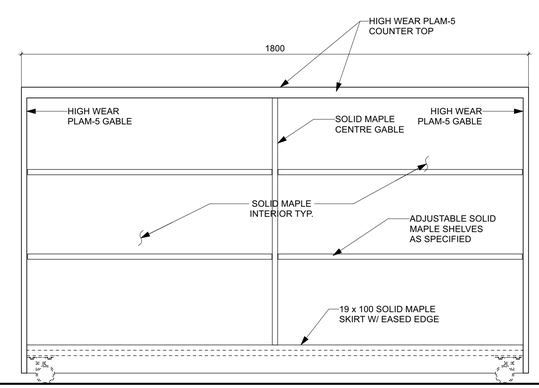
5 A8-04 OPEN END @ SIDE ELEVATION
Scale: 1:10



6 A8-04 RECEPTIONIST DESK @ SIDE
Scale: 1:10



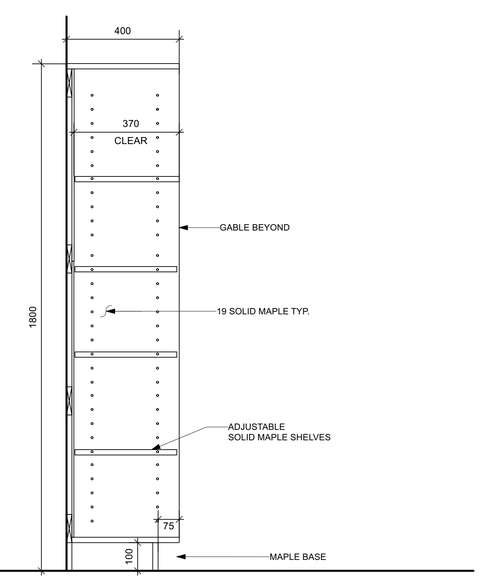
A. SECTION



B. ELEVATION

7 A8-04 MOBILE LOW-HEIGHT BOOKSHELF
Scale: 1:10

NOTES: NOTE: MILLWORK & CASTERS TO SUPPORT FULL LOADING WITH BOOKS. (APPROX. BOOK WEIGHT = 35 LBS PER 300 MM LINEAR SHELF = 1250 LBS)



8 A8-04 TALL BOOKSHELF
Scale: 1:10

NOTES: MILLWORK TO SUPPORT FULL LOADING WITH BOOKS.

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project information

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91 Parkland Drive
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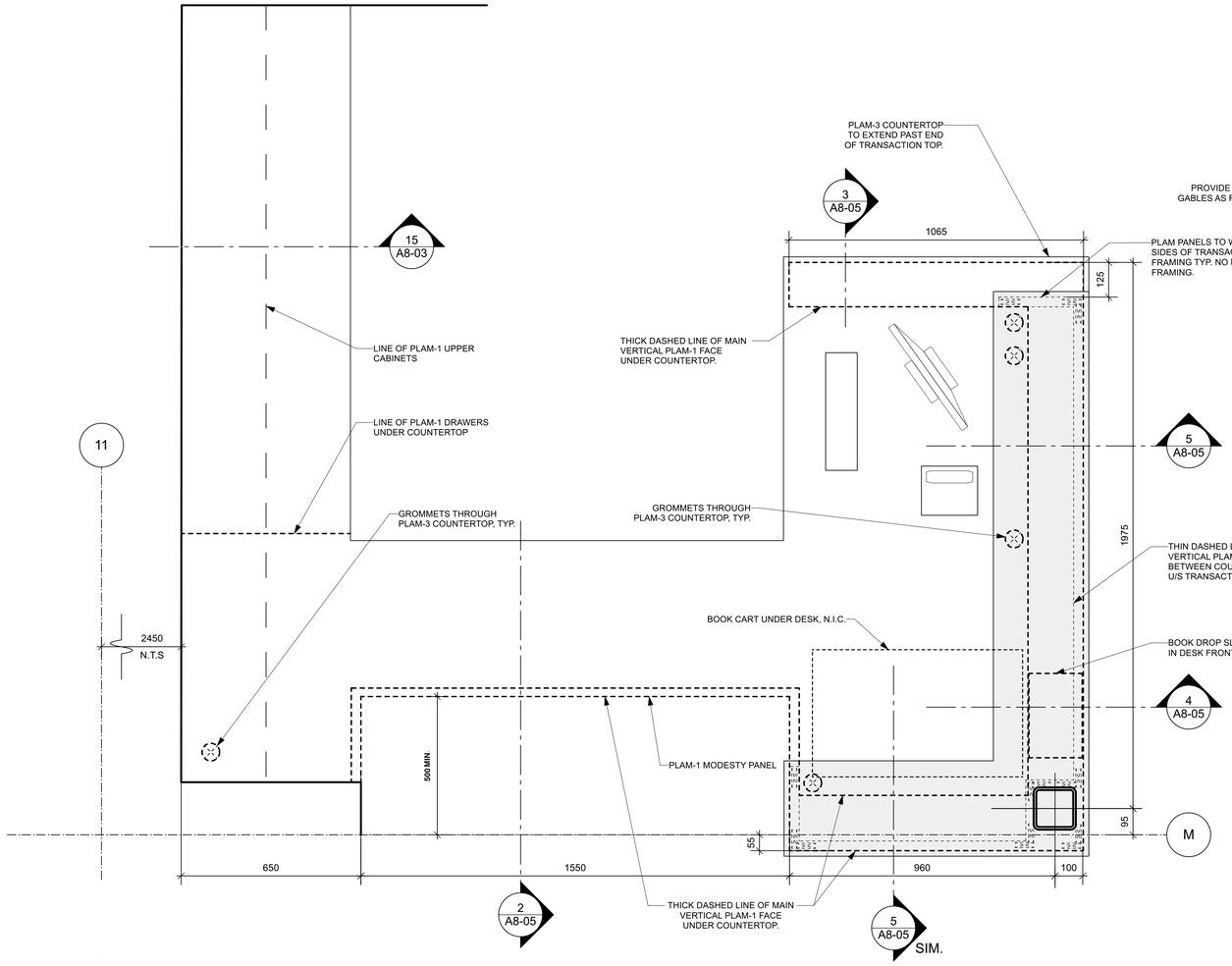
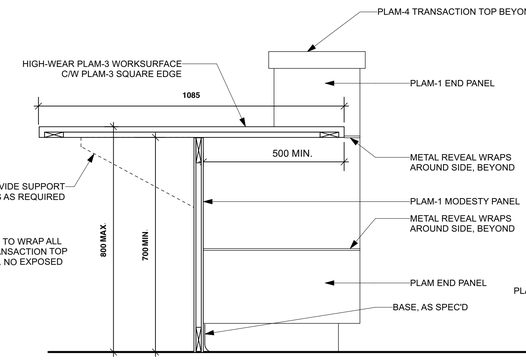
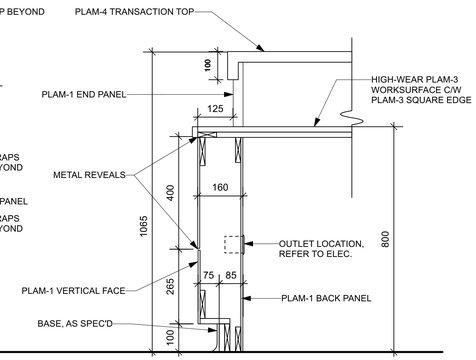
A8 04



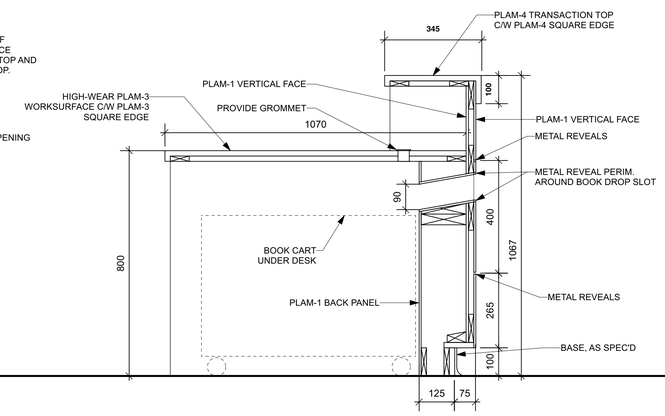
1 A8-05 LIBRARIAN DESK PLAN
Scale: 1:10



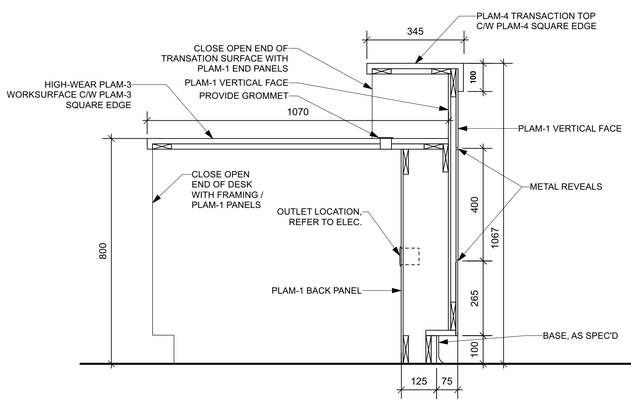
2 A8-05 LIBRARIAN DESK @ ACCESSIBLE COUNTERTOP
Scale: 1:10



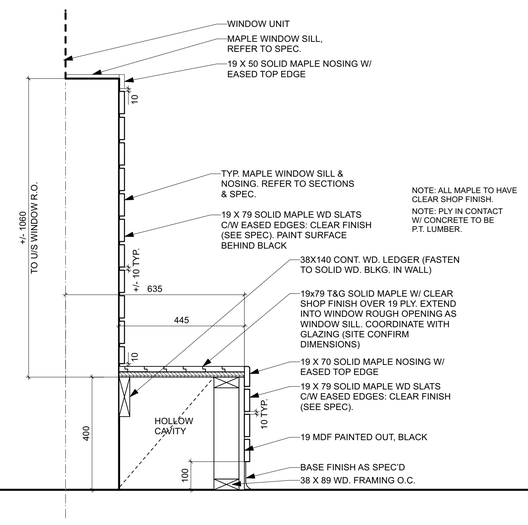
3 A8-05 LIBRARIAN DESK @ END
Scale: 1:10



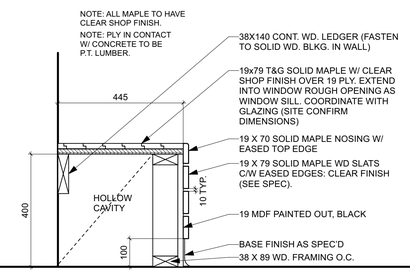
4 A8-05 LIBRARIAN DESK @ BOOK SLOT
Scale: 1:10



5 A8-05 LIBRARIAN DESK @ TRANSACTION SURFACE
Scale: 1:10



6 A8-05 WINDOW BENCH @ HIGH WINDOW
Scale: 1:10



7 A8-05 WINDOW BENCH @ HIGH WINDOW
Scale: 1:10

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issue / rev.

#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

PROVINCE OF MANITOBA — LINDSAY OSTER — 2023-03-24 — REGISTERED ARCHITECT

PROVINCE OF MANITOBA — PRAIRIE ARCHITECTS INC. No. 026 — APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

drawing information

MILLWORK DETAILS

drawn by: **SK**
approved by: **LO**

scale: **1:100**
date issued: **2023.03.24**
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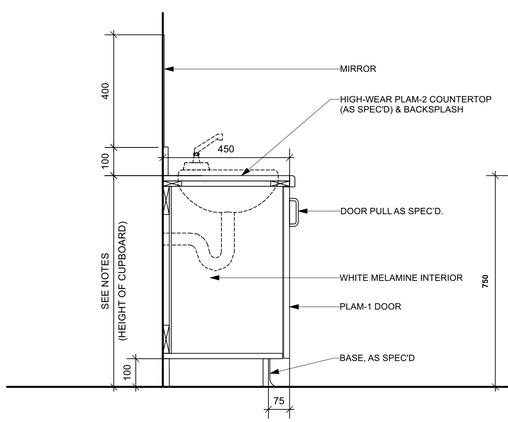
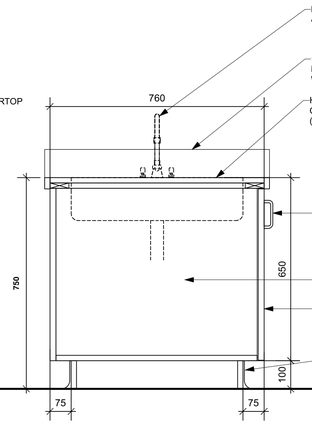
A8 05



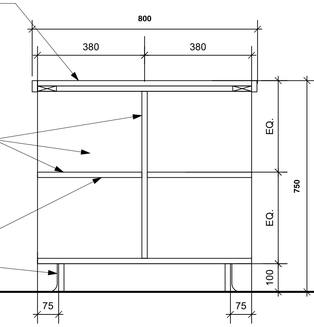
1 A8-06 EARLY YEARS VANITY
Scale: 1:10

NOTES: HEIGHT OF CUPBOARD:
KINDERGARTEN = 750MM A.F.F.
TODDLER & PRESCHOOL = 600MM A.F.F.
INFANT = 500MM A.F.F.



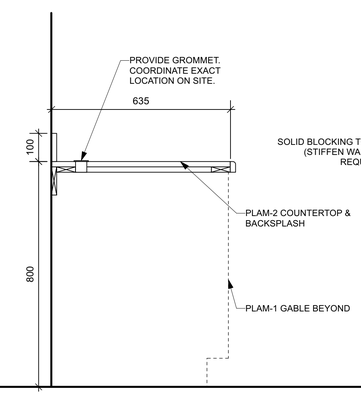
2 A8-06 KINDERGARTEN WATER TABLE
Scale: 1:10

ALTERNATE PRICE, REFER TO SPEC.

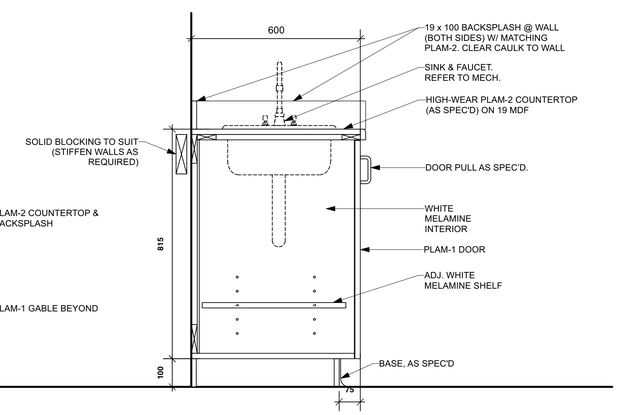


3 A8-06 KINDERGARTEN WATER TABLE @ END
Scale: 1:10

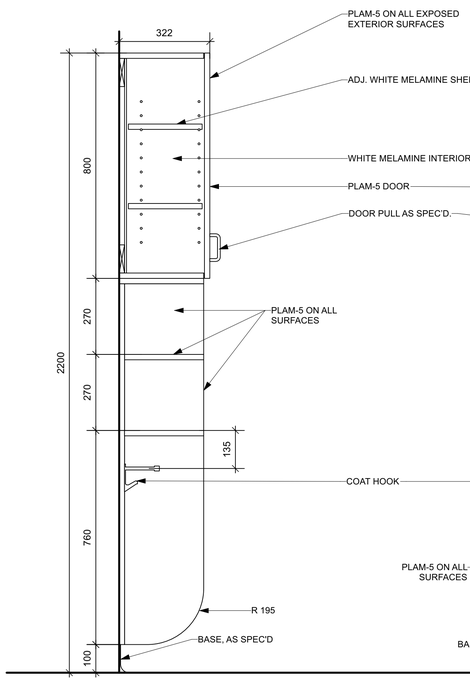
ALTERNATE PRICE, REFER TO SPEC.



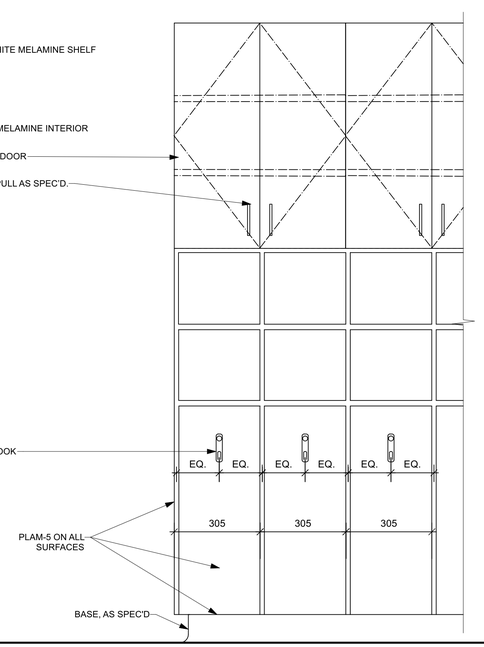
4 A8-06 GYM DESK
Scale: 1:10



5 A8-06 CHANGE TABLE SINK
Scale: 1:10



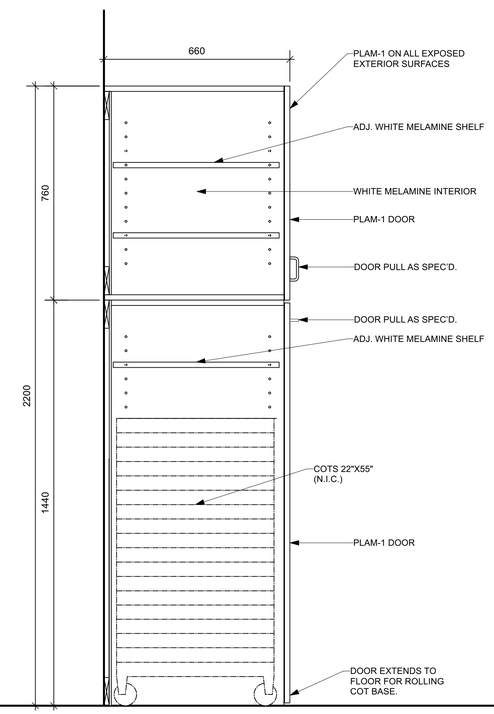
A. SECTION



B. ELEVATION

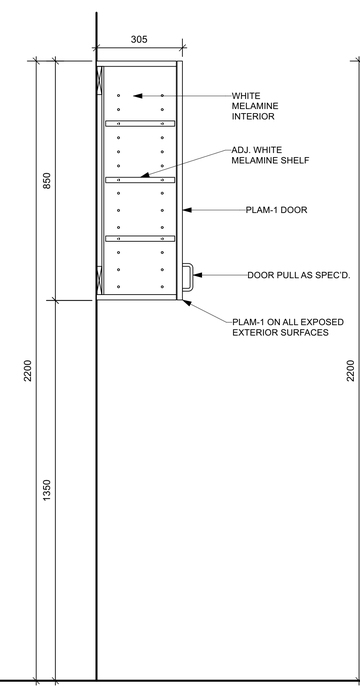
6 A8-06 EARLY YEARS CUBBIES SECTION
Scale: 1:10

NOTES: REFER TO SPEC. 06 40 00 "ARCHITECTURAL WOODWORK" FOR LOCKING LOCATIONS & REQUIREMENTS

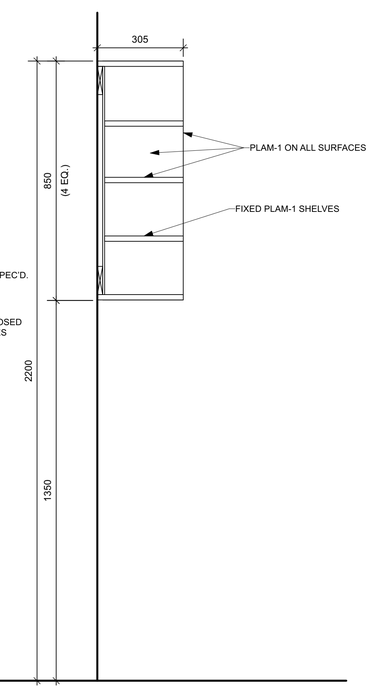


7 A8-06 COT STORAGE
Scale: 1:10

NOTES: REFER TO SPEC. 06 40 00 "ARCHITECTURAL WOODWORK" FOR LOCKING LOCATIONS & REQUIREMENTS



8 A8-06 CLOSED DIAPER CUBBIES
Scale: 1:10



9 A8-06 OPEN DIAPER CUBBIES
Scale: 1:10

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LINDSAY OSTER
2023-03-24
REGISTERED ARCHITECT

PROVINCE OF MANITOBA
PRAIRIE ARCHITECTS INC.
No. 028
APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

drawing information

MILLWORK DETAILS

drawn by: **SK**
approved by: **LO**

scale: **1:100**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

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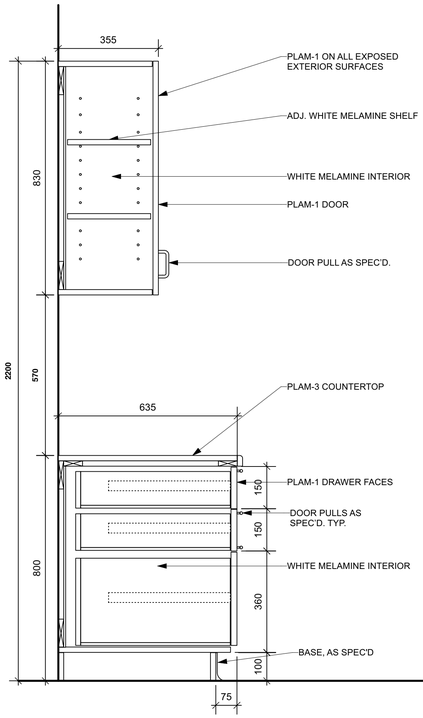
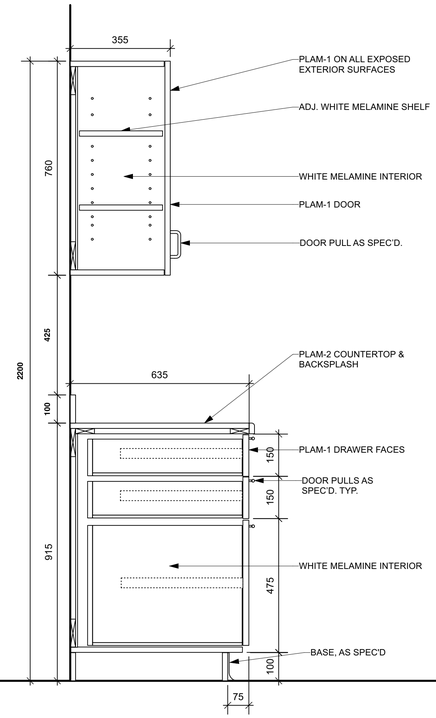
91 Parkland Drive, Steinbach, MB

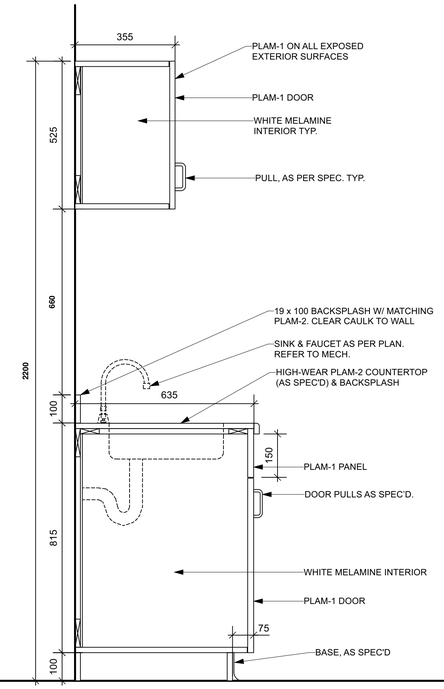
A8 06



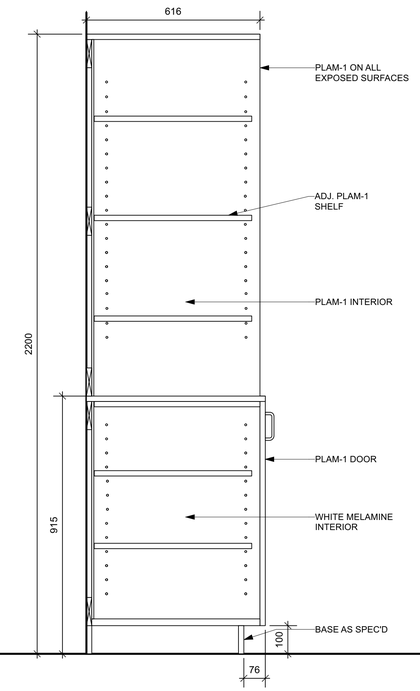
1 A8-07 WORKSURFACE DRAWERS
Scale: 1:10



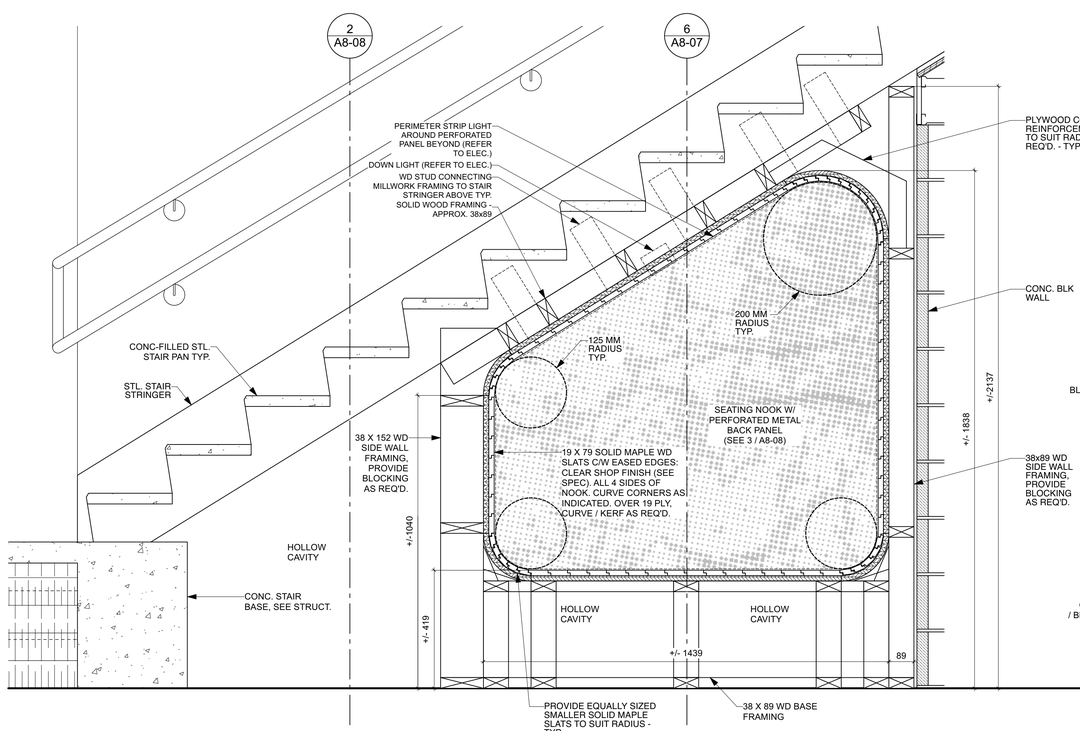
2 A8-07 HEALTH MILLWORK
Scale: 1:10



3 A8-07 TYP. SINK WITH UPPER
Scale: 1:10

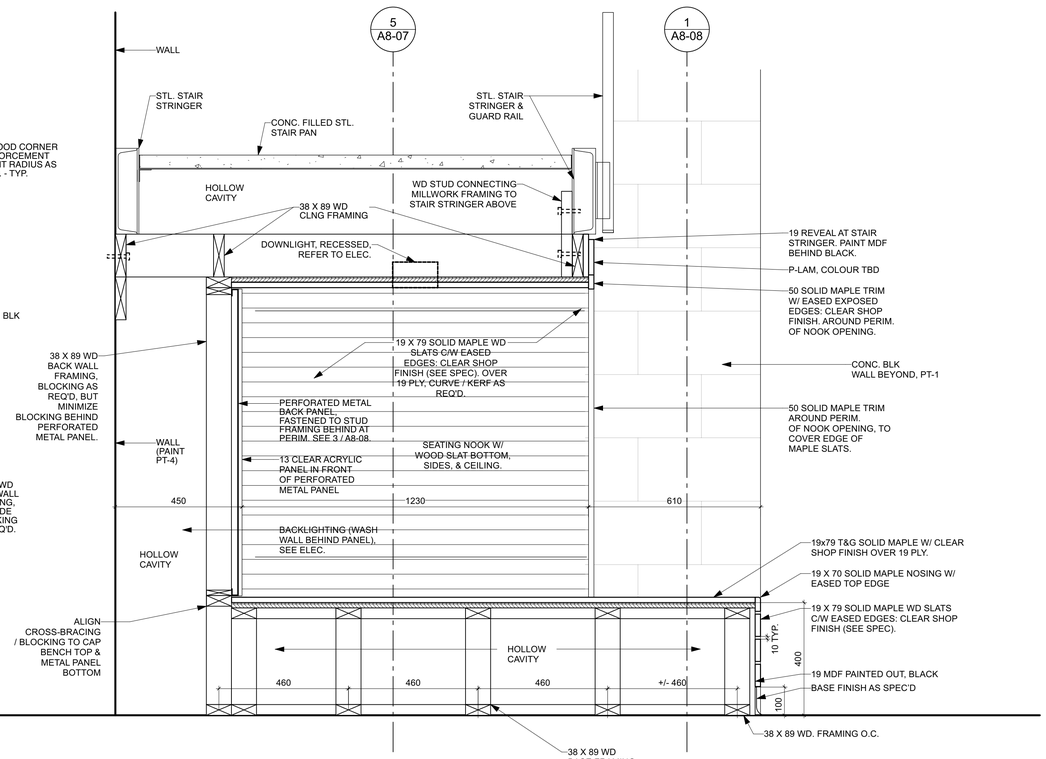


4 A8-07 HALF OPEN CABINET @ GROOMING ROOM
Scale: 1:10



5 A8-07 STAIR BENCH SECTION
Scale: 1:10

NOTE: VERIFY SITE CONDITIONS & COORDINATE WORK WITH ADJACENT WORK.
NOTE: COORD. NOOK CONSTRUCTION WITH PERFORATED METAL PANEL DIMENSIONS



6 A8-07 STAIR BENCH SECTION
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PROVINCE OF MANITOBA LINDSAY OSTER 2023-03-24 REGISTERED ARCHITECT

PROVINCE OF MANITOBA PRAIRIE ARCHITECTS INC. No. 029 APPROVED ARCHITECTURAL CORPORATION

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Steinbach, MB

drawing information

MILLWORK DETAILS

drawn by: **KB / SK**
approved by: **LO**

scale: **1:100**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

NEW WEST STEINBACH ELEMENTARY SCHOOL
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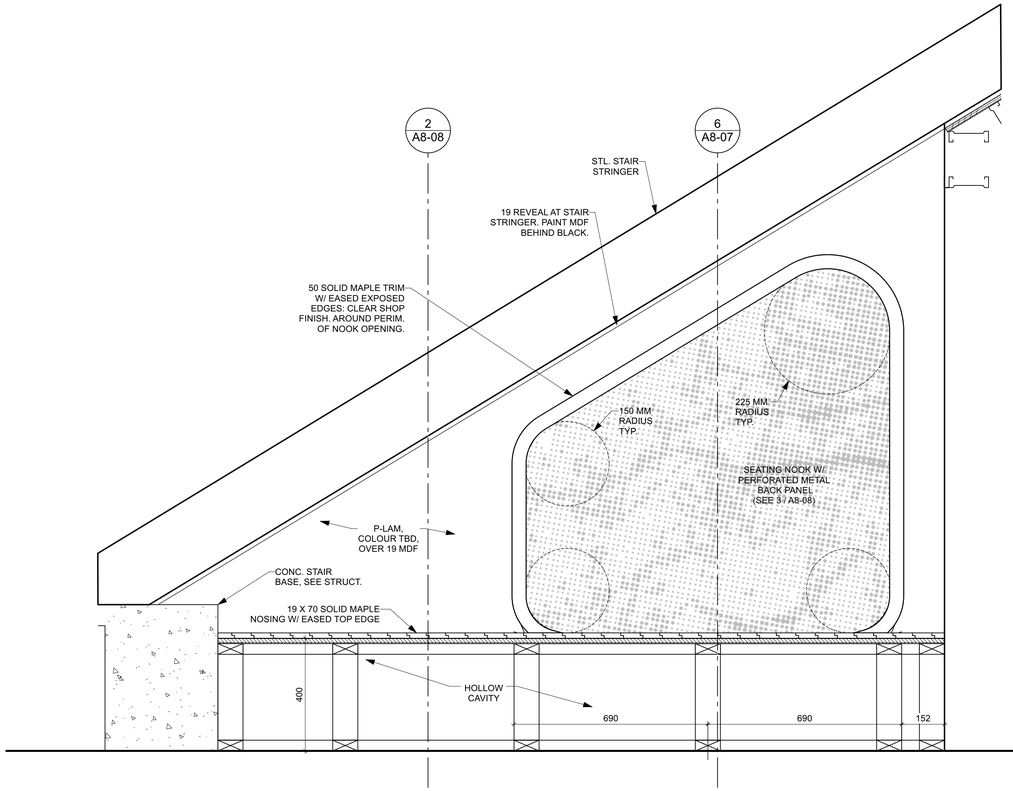
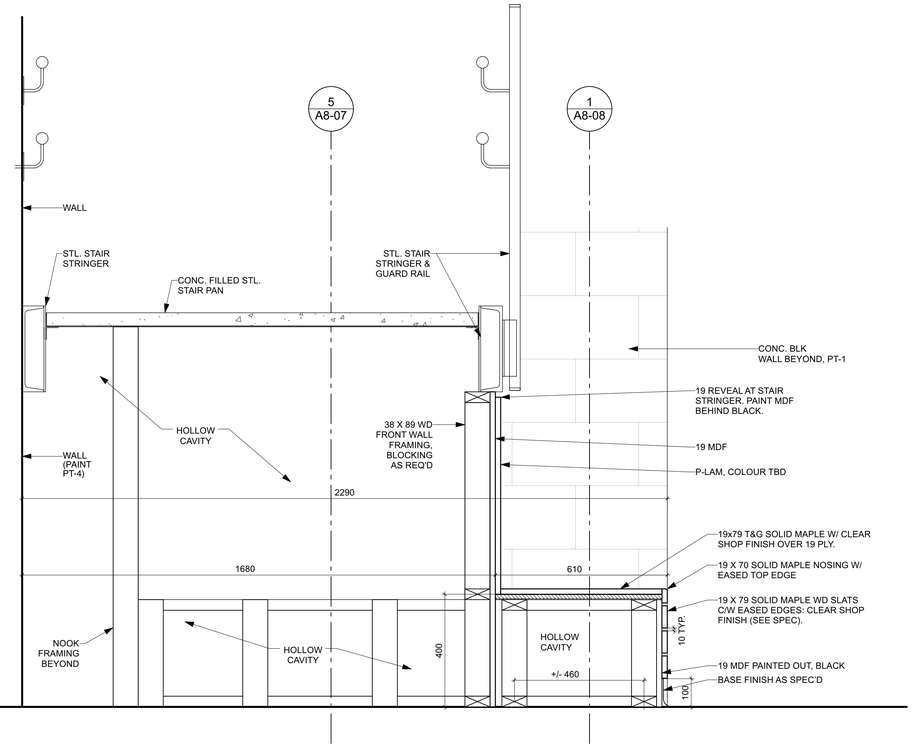
A8 07



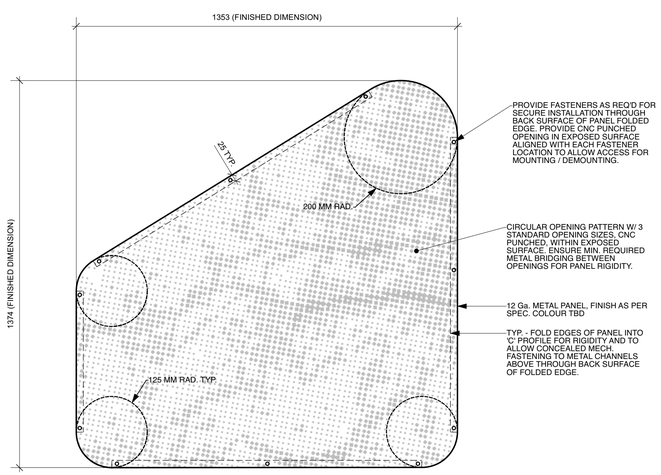
1 A8-08 STAIR BENCH SECTION
Scale: 1:10

NOTE: VERIFY SITE CONDITIONS & COORDINATE WORK WITH ADJACENT WORK.
NOTE: COORD. NOOK CONSTRUCTION WITH PERFORATED METAL PANEL DIMENSIONS

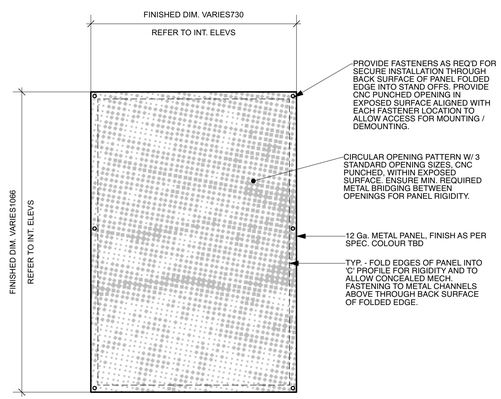


2 A8-08 STAIR BENCH SECTION
Scale: 1:10

NOTE: VERIFY SITE CONDITIONS & COORDINATE WORK WITH ADJACENT WORK.
NOTE: COORD. NOOK CONSTRUCTION WITH PERFORATED METAL PANEL DIMENSIONS



3 A8-08 PERFORATED METAL BACK PANEL
Scale: 1:10



4 A8-08 PERFORATED METAL WALL PANELS
Scale: 1:10

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NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

A8 08

GENERAL NOTES

1. STRUCTURAL DESIGN BASED ON THE MANITOBA BUILDING CODE 2011 EDITION.
   A) IMPORTANCE CATEGORY: HIGH
   B) WIND LOAD: q50 = 0.45 kPa
   C) GROUND SNOW LOAD: Ss = 2.0 kPa
   D) ASSOCIATED RAIN LOAD: Sr = 0.2 kPa
2. SEISMIC SITE CLASSIFICATION: NOT APPLICABLE
3. DO NOT SCALE DRAWINGS.
4. DO NOT BACKFILL UNTIL GROUND FLOOR STRUCTURE IS IN PLACE AND BASEMENT SLABS HAVE BEEN POURED AND CURED.
5. ALL DIMENSIONS ARE TO BE VERIFIED WITH THE ARCHITECTURAL DRAWINGS PROJECT DRAWINGS AND EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.
6. THESE STRUCTURAL DRAWINGS SHOW THE COMPLETED STRUCTURE AND DO NOT INDICATE ALL COMPONENTS NECESSARY FOR SAFETY DURING CONSTRUCTION. THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SAFETY ON AND AROUND THE JOBSITE DURING CONSTRUCTION INCLUDING BUT NOT LIMITED TO ALL TEMPORARY SHORING/BRACING.

FOUNDATIONS

1. FOUNDATION DESIGN BASED ON GEOTECHNICAL REPORT BY WSP DATED OCTOBER 26, 2022.
2. NOTWITHSTANDING THE INFORMATION PROVIDED IN THE GEOTECHNICAL REPORT, THE FOUNDATION AND GENERAL CONTRACTORS SHALL SATISFY THEMSELVES AS TO THE PREVAILING CONDITIONS AT THE SITE AS NO EXTRAS SHALL BE GRANTED SHOULD CONDITIONS DIFFER FROM THOSE INDICATED.
3. ALL FOOTINGS / PADS ARE DESIGNED BASED ON CAPACITIES AS FOLLOWS:
   A) ULS BEARING CAPACITY OF 200 kPa FOR STRIP AND RECTANGULAR FOOTINGS, AND 275 kPa FOR SQUARE FOOTINGS. THIS BEARING CAPACITY HAS BEEN MULTIPLIED BY A GEOTECHNICAL RESISTANCE FACTOR OF 0.5.
   B) SLS BEARING CAPACITY OF 200 kPa FOR STRIP AND RECTANGULAR FOOTINGS, AND 275 kPa FOR SQUARE FOOTINGS.
   C) FOOTINGS / PADS SHALL BE POURED ON UNDISTURBED NATIVE SOIL.
4. ALL FOUNDATION INSTALLATIONS SHALL BE REVIEWED BY QUALIFIED GEOTECHNICAL PERSONNEL REPORTING TO THE GEOTECHNICAL ENGINEER THAT ISSUED THE SITE-SPECIFIC GEOTECHNICAL REPORT IN ACCORDANCE WITH THE REQUIREMENTS OF PART 4 OF THE NATIONAL BUILDING CODE OF CANADA / THE MANITOBA BUILDING CODE.
5. REMOVAL OF UNSUITABLE MATERIALS, SUBGRADE PREPARATIONS & COMPACTED GRANULAR FILL FOR ALL SLABS SUPPORTED ON GRADE AS PER SITE-SPECIFIC GEOTECHNICAL REPORT.

CAST-IN-PLACE CONCRETE

I CONCRETE

1. ALL CONCRETE IS TO BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH CSA-A23.1-09 "CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION" AND CSA-A23.2-09 "METHOD OF TEST FOR CONCRETE".
2. PROVIDE CERTIFICATION THAT MIX PROPORTIONS SELECTED WILL PRODUCE CONCRETE OF QUALITY, YIELD AND STRENGTH AS SPECIFIED IN CONCRETE MIXES, AND WILL COMPLY WITH CSA-A23.1. CERTIFICATION LETTER TO BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA.
3. PROVIDE CERTIFICATION THAT PLANT, EQUIPMENT, AND MATERIALS TO BE USED IN CONCRETE COMPLY WITH REQUIREMENTS OF CSA-A23.1. CERTIFICATION LETTER TO BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA.
4. CONCRETE PROPERTIES SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON THE DRAWINGS.

C.I.P. PILES:	35 MPa MIN. AT 56 DAYS CLASS OF EXPOSURE: S-1 ENTRAINED AIR/CATEGORY: 2 (4% TO 7%) CEMENT TYPE: HS AGGREGATE: MAX. 20 mm CURING TYPE: TYPE 2 – ADDITIONAL SLUMP MIN. 120 mm
PIERS & FOOTINGS:	35 MPa MIN. AT 56 DAYS CLASS OF EXPOSURE: S-2 ENTRAINED AIR/CATEGORY: 2 (4% TO 7%) CEMENT TYPE: HS AGGREGATE: MAX. 20 mm CURING TYPE: TYPE 2 – ADDITIONAL SLUMP MIN. 120 mm
EXTERIOR WALLS AND GRADE BEAMS:	25 MPa MIN. AT 28 DAYS CLASS OF EXPOSURE: F-2 ENTRAINED AIR/CATEGORY: 2 (4% TO 7%) AGGREGATE MAX. 20 mm CURING TYPE: TYPE 2 – ADDITIONAL
EXTERIOR COLUMNS:	25 MPa MIN. AT 28 DAYS CLASS OF EXPOSURE: F-2 ENTRAINED AIR/CATEGORY: 2 (4% TO7%) AGGREGATE MAX. 20 mm CURING TYPE: TYPE 2 – ADDITIONAL
EXTERIOR STRUCTURAL SLABS:	35 MPa MIN. AT 28 DAYS CLASS OF EXPOSURE: C-1 ENTRAINED AIR/CATEGORY: 1 (5% TO 8%) AGGREGATE MAX. 20 mm CURING TYPE: TYPE 2 – ADDITIONAL
EXTERIOR SLABS-ON-GRADE:	32 MPa MIN. AT 28 DAYS CLASS OF EXPOSURE: C-2 ENTRAINED AIR/CATEGORY: 1 (5% TO 8%) AGGREGATE MAX. 20 mm CURING TYPE: TYPE 2 – ADDITIONAL
INTERIOR WALLS AND BEAMS:	25 MPa MIN. AT 28 DAYS CLASS OF EXPOSURE: N ENTRAINED AIR/CATEGORY: NONE (LESS THAN 3%) AGGREGATE MAX. 20 mm CURING TYPE: TYPE 2 – ADDITIONAL
INTERIOR COLUMNS:	25 MPa MIN. AT 28 DAYS CLASS OF EXPOSURE: N ENTRAINED AIR/CATEGORY: NONE (LESS THAN 3%) AGGREGATE MAX. 20 mm CURING TYPE: TYPE 2 – ADDITIONAL
INTERIOR SLABS-ON-GRADE:	25 MPa MIN. AT 28 DAYS CLASS OF EXPOSURE: N ENTRAINED AIR/CATEGORY: NONE AGGREGATE MAX. 20 mm CURING TYPE: TYPE 2 – ADDITIONAL
INTERIOR STRUCTURAL SLABS:	25 MPa MIN. AT 28 DAYS CLASS OF EXPOSURE: N ENTRAINED AIR/CATEGORY: NONE (LESS THAN 3%) AGGREGATE MAX. 20 mm CURING TYPE: TYPE 2 – ADDITIONAL
BONDED TOPPING SLABS: ON HOLLOWCORE	30 MPa MIN. AT 28 DAYS MAX. 0.45 WATER TO CEMENTITIOUS RATIO CLASS OF EXPOSURE: N ENTRAINED AIR/CATEGORY: NONE AGGREGATE MAX. 20 mm CURING TYPE: TYPE 3 – 7 DAY WET CURE
MASONRY FILL:	20 MPa MIN. AT 28 DAYS CLASS OF EXPOSURE: N ENTRAINED AIR/CATEGORY: NONE AIR CONTENT: LESS THAN 3% AGGREGATE MAX. 14 mm SLUMP: 200 mm ± 40 mm
DELTA BEAMS:	30 MPa MIN. AT 28 DAYS CLASS OF EXPOSURE: N SLUMP AND AGGREGATES TO MANUFACTURER'S SPECIFICATIONS

UNLESS INDICATED OTHERWISE THE GENERAL CONTRACTOR SHALL SPECIFY CONCRETE SLUMP APPROPRIATE WITH PLACEMENT METHODS AND SITE CONDITIONS. THE GENERAL CONTRACTOR SPECIFIED SLUMP MUST BE SHOWN ON THE CERTIFICATION LETTER AND CONCRETE DELIVERY TICKET.

5. UNLESS NOTED OTHERWISE CONCRETE CURING TO CONFORM TO CSA-A23.1-09 AS FOLLOWS:
   A) TYPE 1 – BASIC: 3 DAYS ≥ 10°C AND FOR A TIME NECESSARY TO ATTAIN 40% OF THE SPECIFIED STRENGTH.
   B) TYPE 2 – ADDITIONAL: 7 DAYS ≥ 10°C AND FOR A TIME NECESSARY TO ATTAIN 70% OF THE SPECIFIED STRENGTH.
   C) TYPE 3 – EXTENDED: 7 DAYS WET CURING ≥ 10°C.

II REINFORCING STEEL

1. ALL REINFORCING STEEL TO BE CSA-G30.18M-M92 GRADE 400R DEFORMED BARS EXCEPT COLUMN TIES AND BEAM STIRRUPS WHICH SHALL BE GRADE 400W STEEL.
2. ALL REINFORCING IS TO BE DETAILED IN ACCORDANCE WITH THE LATEST EDITION OF THE REINFORCING STEEL INSTITUTE OF CANADA – MANUAL OF STANDARD PRACTICE, EXCEPT OTHERWISE NOTED. ALL LAPPED SPLICES TO BE CLASS B SPLICES, UNLESS NOTED.
3. WELDED STEEL WIRE MESH SHALL BE TO ASTM A185/A185M-07, 400 MPa YIELD, FLAT SHEETS ONLY.
4. REINFORCING STEEL COVER IS TO CONFORM TO CAN/CSA A23.3-09 "DESIGN OF CONCRETE STRUCTURES FOR BUILDINGS" AND AS FOLLOWS:

FOOTINGS: EXPOSURE CLASS: S-2	75 mm	
PIERS: EXPOSURE CLASS: S-2	75 mm	
EXTERIOR WALLS: EXPOSURE CLASS: F-2	40 mm OUTSIDE FACE	20 mm INSIDE FACE.
GRADE BEAMS: EXPOSURE CLASS: F-2	50 mm BOTTOM TO TIES	40mm SIDES AND TOP TO TIES.
EXTERIOR COLUMNS: EXPOSURE CLASS: F-2	40 mm	60 mm TO TIES.
EXTERIOR STRUCTURAL SLABS: EXPOSURE CLASS: C-1	40 mm TOP	40 mm BOTTOM
EXTERIOR SLABS-ON-GRADE: EXPOSURE CLASS: C-2	40 mm TOP	40 mm BOTTOM
INTERIOR WALLS: EXPOSURE CLASS: N	20 mm EACH FACE	
INTERIOR BEAMS: EXPOSURE CLASS: N	30 mm BOTTOM TO TIES	30 mm SIDES AND TOP TO TIES.
INTERIOR COLUMNS: EXPOSURE CLASS: N	30 mm TO TIES.	
INTERIOR SLABS-ON-GRADE: EXPOSURE CLASS: N	40 mm TOP	20 mm BOTTOM
INTERIOR STRUCTURAL SLABS: EXPOSURE CLASS: N	20 mm TOP	20 mm BOTTOM

5. IN WALLS AND GRADE BEAMS, BEND ALL TOP, INTERMEDIATE, AND BOTTOM HORIZONTAL STEEL 600 mm AROUND CORNERS, OR USE EXTRA L BARS 1200 mm LONG. ALL OPENINGS IN WALLS TO HAVE 2-15M EACH SIDE AND 2-25M OVER, EXCEPT AS NOTED.
6. TOP STEEL IN BEAMS TO BE LAPPED AT CENTRE SPAN, WITH CLASS B SPLICES, BOTTOM STEEL CAN BE BUTTED AT SUPPORT.
7. IN WALLS, TOP STEEL TO BE LAPPED AT CENTRE SPAN WITH CLASS A TENSION SPLICES, BOTTOM STEEL TO BE BUTTED AT SUPPORT, HORIZONTAL STEEL TO BE LAPPED WITH CLASS A TENSION SPLICES, VERTICAL STEEL TO BE LAPPED WITH CLASS B TENSION SPLICES, EXCEPT AS NOTED.
8. IN SLABS ON GRADE, BARS TO BE LAPPED WITH CLASS A TENSION SPLICES, EXCEPT AS NOTED.
9. IN COLUMNS, VERTICAL BARS TO HAVE COMPRESSION SPLICES, EXCEPT AS NOTED.
10. ALL REINFORCING TO BE HELD IN PLACE, AND TIED BY THE USE OF PROPER ACCESSORIES, SUCH AS HI-CHAIRS, SPACERS, ETC. TO BE SUPPLIED BY THE REINFORCING STEEL FABRICATOR. HI-CHAIRS TO HAVE 4 LEGS AND TO BE STAPLED OR NAILED TO THE FORMWORK.
11. ALL OPENINGS IN CAST-IN-PLACE CONCRETE FLATWORK TO BE TRIMMED WITH 2-15M ALL AROUND ON BOTH FACES, EXCEPT AS NOTED.
12. FOR ALL STRUCTURAL SLABS A MINIMUM OF 50% OF THE BOTTOM STEEL SHALL BE CONTINUED A MINIMUM DISTANCE OF 150 mm INTO ALL SUPPORTING WALLS AND BEAMS. IF KEYS ARE USED AT JOINTS BETWEEN SLABS AND WALLS OR BEAMS, BOTTOM DOWELS EQUAL TO BOTTOM REINFORCEMENT OR 10M AT 300 mm O/C SHALL BE PROVIDED WHICHEVER IS GREATER.
13. ALL MISCELLANEOUS CONCRETE PADS AND CURBS ARE TO BE REINFORCED WITH A MINIMUM OF 10M AT 400 mm O/C EACH WAY, UNLESS NOTED.
14. WHEN CONCRETE BEAMS ARE CAST INTO A WALL / BEAM CHASE, DOWELS SIZE AND NUMBER SAME AS BEAM REINFORCING ARE TO BE PROVIDED FROM WALL, UNLESS OTHERWISE SHOWN ON PLAN.
15. FOR TWO-WAY FLAT SLABS PROVIDE MINIMUM 2-10M BOTTOM INTEGRITY BARS THROUGHOUT STRUCTURES IN ACCORDANCE WITH CSA A23.3-09, CLAUSE 13.10.6.

III FORMWORK

1. SHEARMAT OR APPROVED CARDBOARD VOID FORM WITH A MIN. DEPTH OF 150 mm SHALL BE USED AS THE BOTTOM FORM FOR STRUCTURAL SLABS AT GRADE AND GRADE BEAMS IN CONTACT WITH SOIL. SELECT AND INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. ACCESSORIES SUCH AS HI-CHAIRS, SPACERS, ETC. SHALL BE SUPPORTED BY PADS OF PLYWOOD OR TEMPERED HARDBOARD TO PREVENT PUNCTURING THE VOID FORM.
3. UNLESS NOTED OTHERWISE PROVIDE SLIP JOINT ALL PAVING OR CONCRETE SLABS ON GRADE AGAINST STRUCTURAL MEMBERS WITH 12 mm ASPHALT IMPREGNATED FIBREBOARD.
4. ALL CONSTRUCTION JOINT KEYS ARE TO BE A MINIMUM OF 40 mm DEEP.
5. ALL STRUCTURAL SLABS FRAMING INTO BEAMS AND WALLS ARE TO HAVE A MINIMUM KEY OF 40 mm
6. ALL CONCRETE BEAMS FRAMING INTO CONCRETE WALLS / BEAMS ARE TO BE SUPPORTED BY A CHASE OF MINIMUM 100 mm DEPTH AND THE HEIGHT AND WIDTH OF THE BEAM.
7. PLACE 10 MIL POLYETHYLENE UNDER ALL INTERIOR SLABS ON FILL AND OVER TOP OF VOID FORM.
8. PROVIDE 150 mm WIDE, RIBBED, PVC WATERSTOPS IN ALL HORIZONTAL AND VERTICAL CONSTRUCTION JOINTS IN ALL EXTERIOR WALLS BELOW GRADE AND PIT WALLS.

STRUCTURAL STEEL

1. THE STRUCTURAL STEEL FABRICATOR'S ENGINEER SHALL BE RESPONSIBLE FOR LOCATING AND DESIGNING PROVISIONS FOR ALL TEMPORARY FALL PROTECTION SYSTEMS REQUIRED DURING CONSTRUCTION TO MEET MANITOBA WORKPLACE HEALTH AND SAFETY REGULATIONS.
2. THE STRUCTURAL STEEL ERECTOR SHALL BE RESPONSIBLE FOR SUPPLYING AND ERECTING ALL TEMPORARY GUYING AND BRACING OF THE STEEL FRAMING TO PROVIDE STABILITY FOR THE STRUCTURE AS A WHOLE. THESE SHALL REMAIN IN PLACE UNTIL ALL STEEL DECKING IS ERECTED, WELDED IN PLACE, ALL MASONRY/CONCRETE WALLS CONSTRUCTED, AND ALL HOLLOWCORE HAS BEEN ERECTED, JOINTS GROUTED, AND BEARING ENDS HAVE BEEN GROUTED AND CURED.
3. STRUCTURAL STEEL TO CONFORM TO CSA-G40.21-04, "STRUCTURAL QUALITY STEELS" AND CSA-G40.20 "GENERAL REQUIREMENTS FOR ROLLED OR WELDED STRUCTURAL QUALITY STEEL", ASTM A572/A572M "STANDARD SPECIFICATION FOR HIGH-STRENGTH LOW-ALLOY COLUMBIUM-VANADIUM STRUCTURAL STEEL" OR ASTM A992/A992M "STANDARD SPECIFICATION FOR STRUCTURAL STEEL SHAPES".
4. ALL ROLLED OR STEEL STRUCTURAL SECTIONS SHALL BE G40.21-350W, ASTM A992 OR ASTM A572 GRADE 50. ALL HOLLOW STRUCTURAL SECTIONS TO BE G40.21-350W CLASS C OR ASTM A500-C. ALL ANGLES, CHANNELS AND PLATES SHALL BE G40.21-300W.
5. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE PERFORMED IN ACCORDANCE WITH CSA S16-09, "DESIGN OF STEEL STRUCTURES".
6. ALL WELDING SHALL CONFORM TO THE LATEST EDITION OF CSA W59, "WELDED STEEL CONSTRUCTION". FABRICATORS SHALL BE PROPERLY CERTIFIED IN ACCORDANCE WITH CSA W47.1, "CERTIFICATION OF COMPANIES FOR FUSION WELDING OF STEEL STRUCTURES".
7. STRUCTURAL STEEL SUPPLIER IS TO SUBMIT ENGINEERING DRAWINGS BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA COVERING THE DESIGN OF CONNECTIONS, TO THE PROJECT DESIGN ENGINEER FOR REVIEW PRIOR TO FABRICATION. CONNECTION DESIGN TO INCLUDE FOR ALL ADJUSTABLE CONNECTIONS REQUIRED TO SUIT FABRICATION AND ERECTION PROCEDURES AND TOLERANCES.
8. ALL BOLTED CONNECTIONS TO USE A325 HIGH STRENGTH BOLTS. MINIMUM CONNECTION SHALL CONSIST OF 2 BOLTS.
9. ALL STRUCTURAL STEEL IS TO RECEIVE ONE COAT OF CISC/CPMA 1-73a QUICK DRYING SHOP PRIMER. STEEL IN CRAWLSPACES SHALL RECEIVE 2 COATS. STEEL TO BE CLEANED IN CONFORMANCE WITH SSPC-SP2. STEEL RECEIVING FINISH PAINTING TO HAVE ONE COAT OF CISC/CPMA 2-75 QUICK DRYING SHOP PRIMER. STEEL TO BE CLEANED IN CONFORMANCE WITH SSPC-SP7.
10. ALL STRUCTURAL STEEL INDICATED AS GALVANIZED IS TO BE HOT DIP GALVANIZED IN ACCORDANCE WITH CAN/CSA-G164 'HOT DIP GALVANIZING OF IRREGULARLY SHAPED ARTICLES' WITH A MINIMUM GALVANIZED COATING OF 610 GRAMS PER SQUARE METRE OF SURFACE AREA. ALL FIELD WELDING TO BE TOUCHED UP WITH BRUSH APPLIED ZINC RICH PAINT CONTAINING MORE THAN 92% METALLIC ZINC BY WEIGHT.
11. IF STEEL IS TO RECEIVE AN INTUMESCENT COATING OR SPRAY APPLIED FIREPROOFING, IT SHOULD BE PREPARED TO MEET THE DESIGN REQUIREMENTS OF THE FIREPROOFING MANUFACTURER.
12. STRUCTURAL STEEL SUPPLIER TO PROVIDE 40 mm x 5 mm MASONRY ANCHORS BY 400 mm LONG WITH 50 mm HOOK AT 400 mm O/C, ON ALL COLUMNS, GIRTS, AND BEAMS IN CONTACT WITH MASONRY.
13. NO HOLES PERMITTED IN TOP FLANGE OF BEAMS AT COLUMNS WHERE BEAMS ARE CONTINUOUS OVER COLUMNS.
14. ALL BEAMS CONTINUOUS OVER COLUMNS ARE TO HAVE WEB STIFFENERS THE SAME SIZE AND ORIENTATION AS THE COLUMN BELOW, UNLESS OTHERWISE NOTED.
15. ANCHOR BOLTS TO BE ASTM A307 GRADE C OR ASTM F1554 GRADE 36, WELDABLE, PROVIDED BY STEEL SUPPLIER AND SET BY THE GENERAL CONTRACTOR. WHERE ASTM F1554 GRADE 55 ANCHOR BOLTS ARE USED, BOLTS TO BE WELDABLE GRADE STEEL.
16. FABRICATOR TO NOTIFY ENGINEER OF ANY PROPOSED MEMBER SUBSTITUTIONS AND CHANGED CONNECTION DETAILS.
17. THE STRUCTURAL STEEL SUPPLIER SHALL PROVIDE AND BE RESPONSIBLE FOR ALL HOLES IN STEEL SECTIONS REQUIRED BY OTHER TRADES. SECTION SHALL BE STRENGTHENED WHERE REQUIRED TO GUARANTEE THE ORIGINAL STRENGTH OF THE BEAM. ANY CUTTING OF STEEL AT THE JOB SITE SHALL BE DONE ONLY AS DIRECTED AND APPROVED BY THE ENGINEER.
18. JOIST SEATS MAY BE BOLTED TO BEAM TOP FLANGES USING PAIRS OF 14.3 mm DIAMETER BOLT HOLES ORIENTED ACROSS THE FLANGE WIDTH. ALL HOLES MUST BE FILLED WITH 12.7 mm DIAMETER BOLTS.
19. UNLESS NOTED OTHERWISE ON DRAWINGS PROVIDE L76 x 76 x 6.4 DIAPHRAGM CHORD ANGLE AROUND ENTIRE PERIMETER OF BUILDING.
20. ALL OPENINGS LARGER THAN 450 mm X 450 mm THROUGH STEEL DECK TO BE FRAMED WITH L76 x 76 x 6.4 ANGLES ALL AROUND, EXCEPT AS NOTED. SMALLER OPENINGS THROUGH STEEL DECK TO BE STIFFENED BY STEEL DECK SUPPLIER. WHEN STEEL DECK CHANGES ITS FRAMING DIRECTION, USE L65 x 65 x 6.4 ANGLE TO SUPPORT EDGE.
21. STRUCTURAL STEEL WHICH SUPPORTS ARCHITECTURAL FINISHES MUST BE DESIGNED TO BE SUFFICIENTLY ADJUSTABLE TO MEET REQUIRED INSTALLATION TOLERANCES. SEE ARCHITECTURAL FOR REQUIRED FINISH TOLERANCES.
22. STEEL FRAMING BELOW AND PARALLEL TO HOLLOWCORE SPAN TO HAVE MINIMUM 19 mm DIAMETER X 152 mm LONG NELSON STUDS LOCATED AT Z-BAR TIE LOCATIONS AT 1/3 POINTS OF SPAN OR AS NOTED ON PLAN.
23. STEEL BEAMS SUPPORTING HOLLOWCORE SLAB ENDS TO HAVE MINIMUM 19 mm x 152 mm LONG NELSON STUDS AT 1220 mm ON CENTER FOR 203 TO 254 HOLLOWCORE 19 mm X 178 LONG NELSON STUDS AT 1220 mm ON CENTER FOR 305 HOLLOWCORE WELDED TO TOP FLANGE OF BEAM AND GROUTED INTO POCKETS OR CORES OF PRECAST, OR AS NOTED ON PLAN.
24. STEEL STRUTS THAT BRACE TOP AND/OR BOTTOM FLANGES OF BEAMS MUST BE INSTALLED PRIOR TO ANY TEMPORARY CONSTRUCTION LOADING.
25. ALL ANGLES, PLATES AND OTHER STEEL COMPONENTS NECESSARY TO SUPPORT DELTA BEAMS (AT STRUCTURAL STEEL MEMBERS) SHALL BE DESIGNED, DETAILED AND SUPPLIED BY THE STRUCTURAL STEEL SUPPLIER. WHERE APPLICABLE, THESE SHALL BE COORDINATED AND INSTALLED BY THE GENERAL CONTRACTOR OR A SUB-CONTRACTOR OF THEIR CHOOSING.
26. WHERE DELTA BEAM BOTTOM FLANGE DOES NOT CONTINUE AROUND COLUMNS, STRUCTURAL STEEL SUPPLIER TO PROVIDE SUPPORT FOR HOLLOWCORE BEARING. WHERE APPLICABLE, THESE SHALL BE COORDINATED AND INSTALLED BY THE GENERAL CONTRACTOR OR A SUB-CONTRACTOR OF THEIR CHOOSING.
27. ALL ANGLES, PLATES AND OTHER STEEL COMPONENTS NECESSARY TO SUPPORT STRUCTURAL STEEL BEAMS/COLUMNS, AT DELTA BEAM MEMBERS SHALL BE DESIGNED, DETAILED AND SUPPLIED BY THE STRUCTURAL STEEL SUPPLIER. WHERE APPLICABLE, THESE SHALL BE COORDINATED AND INSTALLED BY THE GENERAL CONTRACTOR OR A SUB-CONTRACTOR OF THEIR CHOOSING.
28. STRUCTURAL STEEL TRADE IS RESPONSIBLE FOR THE INSTALLATION OF ALL DELTA BEAM CORBELS WHERE DELTA BEAMS CONNECT TO STRUCTURAL STEEL MEMBERS.
29. FOR ALL STEEL CONNECTIONS, SUPPLIERS/DESIGNERS SHALL PROVIDE A FINAL INSPECTION AND A LETTER SEALED BY THE ENGINEERS RESPONSIBLE, CERTIFYING THAT STEEL CONNECTIONS ARE CONSTRUCTED AND INSTALLED AS PER DESIGN ASSUMPTIONS AND INSTALLATION REQUIREMENTS.
30. STRUCTURAL STEEL TO BE REVIEWED BY THIRD PARTY STRUCTURAL STEEL INSPECTION AGENCY.

DELTA BEAMS

1. PRIOR TO FABRICATION THE DELTA BEAM SUPPLIER SHALL SUBMIT LAYOUT AND ERECTION DRAWINGS TO THE PROJECT DESIGN ENGINEER FOR REVIEW, BEARING THE SEAL ON AN ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA, SHOWING THE FOLLOWING:
   A) DEPTH AND IDENTIFICATION MARK.
   B) DESIGN LOADS.
   C) TEMPORARY SUPPORT REQUIREMENTS.
   D) DIMENSIONS AND LOCATIONS OF ALL PREFORMED OPENINGS WHERE DELTA BEAMS WILL BE SUPPLIED TO SUPPORT SUCH OPENINGS.
   E) FIRE RATING WHERE NOTED ON ARCHITECTURAL DRAWINGS.
   F) ALL CONNECTION DETAILS FOR PROPER INSTALLATION OF DELTA BEAMS.
2. DELTA BEAM SUPPLIER TO COORDINATE WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS, AND COORDINATE WITH ALL TRADES, FOR ANY PREFORMED FLOOR/ROOF OPENINGS.
3. ALL INSERTS, ANCHORS, HANGERS AND MISCELLANEOUS ATTACHMENTS FOR OTHER TRADES SHALL BE COORDINATED WITH THE DELTA BEAM SUPPLIER.
4. DELTA BEAMS CONNECTING TO STEEL FRAMING SHALL BE DETAILED IN SUCH A MANNER AS TO NOT DAMAGE OR IMPEDE ON THE STRUCTURAL INTEGRITY OF THE STEEL STRUCTURE. IF ANY MODIFICATIONS TO STEEL FRAMING ARE REQUIRED, DELTA BEAM SUPPLIER SHALL OBTAIN APPROVAL FROM STEEL SUPPLIER AND THE PROJECT ENGINEER PRIOR TO PROCEEDING. THE STEEL SUPPLIER IS RESPONSIBLE FOR PROVIDING REINFORCING STEEL FRAMING IN ORDER TO REINSTATE ORIGINAL DESIGN CAPACITY.
5. DELTA BEAM SUPPLIER IS TO DESIGN, DETAIL AND SUPPLY CORBELS OR GUSSET PLATES AT ALL DELTA BEAM CONNECTION DETAILS, UNLESS OTHERWISE NOTED.
6. DELTA BEAM SUPPLIER IS TO DESIGN FOR ALL LOADS NOTED ON THE STRUCTURAL DRAWINGS AS WELL AS ANY ADDITIONAL LOADS FROM EQUIPMENT AS NOTED ON THE PROJECT SPECIFIC DRAWINGS AS WELL AS LINE LOADS FROM EXTERIOR WALLS, ETC.
7. GENERAL CONTRACTOR SHALL COORDINATE AND BE RESPONSIBLE FOR, BUT NOT LIMITED TO, THE FOLLOWING ITEMS:
   A) DELTA BEAM SUPPLIER TOLERANCES.
   B) INSTALLATION OF ALL REINFORCEMENT NOTED ON DELTA BEAM SHOP DRAWINGS.
   C) ROUTINE INSPECTIONS OF THE DELTA BEAM INSTALLATION SHALL BE PERFORMED UNDER THE SUPERVISION OF AN ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA AND APPROVED BY THE DELTA BEAM SUPPLIER. A LETTER SEALED BY THE ENGINEER RESPONSIBLE FOR THE INSPECTIONS SHALL BE PROVIDED CERTIFYING THAT DELTA BEAMS ARE CONSTRUCTED AND INSTALLED AS PER DESIGN ASSUMPTIONS AND INSTALLATION REQUIREMENTS SET FORTH BY THE DELTA BEAM SUPPLIER; COSTS FOR INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE DELTA BEAM SUPPLIER.
   D) SUPPLY AND INSTALLATION OF TEMPORARY SHORING POSTS AS REQUIRED AND RECOMMENDED BY DELTA BEAM SUPPLIER.
   E) CONCRETE TESTING AS REQUIRED AND RECOMMENDED BY THE DELTA BEAM SUPPLIER AND THE ENGINEER RESPONSIBLE FOR THE ROUTINE INSPECTIONS.
8. DELTA BEAMS SUPPORTING MASONRY BEARING AND NON BEARING WALLS TO BE DESIGNED FOR A MAXIMUM DEFLECTION OF L/480 FOR SUPERIMPOSED DEAD LOAD AND LIVE LOAD.

STEEL JOISTS

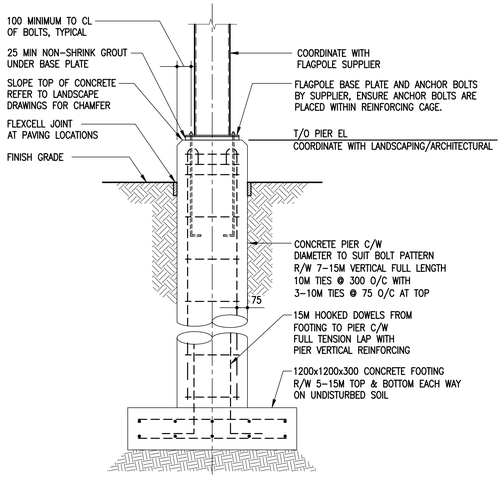
1. JOIST FABRICATOR TO CONSULT THE SUPPLEMENTS TO THE NATIONAL BUILDING CODE OF CANADA ON NON-UNIFORM SNOW LOADS.
2. JOISTS ARE TO BE CAMBERED FOR THE GREATER OF: FULL DEAD LOAD DEFLECTION OR FOR NOMINAL CAMBER AS SPECIFIED IN CSA S16-09.
3. ALL JOIST BRIDGING TO CONFORM WITH THE LATEST BUILDING CODE REQUIREMENTS, EXCEPT AS NOTED.
4. JOISTS BEARING ON BEAMS TO REST ON THE MIDDLE THIRD OF THE FLANGE. JOISTS IN LINE TO BEAR END TO END ON THE SUPPORTING BEAMS WITH A MAXIMUM GAP OF 13 mm
5. JOIST SUPPLIER TO REFER TO MECHANICAL DRAWINGS FOR LOCATION AND WEIGHTS OF EQUIPMENT SUPPORTED BY JOISTS. JOISTS TO HAVE INTERNAL MEMBERS IN LINE WHERE REQUIRED BY MECHANICAL DUCTS.
6. ALL STEEL JOISTS TO RECEIVE ONE COAT OF SHOP PRIMER CISC/CPMA 1-73a QUICK DRYING. JOISTS TO BE CLEANED IN CONFORMANCE WITH SSPC-SP2. JOISTS RECEIVING FINISH PAINTING TO HAVE ONE COAT OF CISC/CPMA 2-75 QUICK DRYING SHOP PRIMER. STEEL TO BE CLEANED IN CONFORMANCE WITH SSPC-SP7.
7. JOIST SUPPLIER IS TO SUBMIT ENGINEERING DRAWINGS BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA TO THE PROJECT DESIGN ENGINEER FOR REVIEW PRIOR TO FABRICATION.
8. JOISTS WHICH ARE RESISTANCE WELDED SHALL CONFORM TO CSA W55.2, "RESISTANCE WELDING PRACTICE" AND CSA-W55.3, "RESISTANCE WELDING QUALIFICATION CODE FOR FABRICATORS OF STRUCTURAL MEMBERS USED IN BUILDINGS".
9. ALL COLUMNS TO BE STRUTTED BY JOISTS OR BEAMS. WHERE JOISTS OR BEARS DO NOT LINE UP WITH COLUMNS TOP OF COLUMNS TO BE STRUTTED TO JOISTS WITH L76 x 76 x 6.4 TO ADJACENT JOIST TOP CHORD AT PANEL POINTS.
10. ALL JOISTS LINING UP WITH COLUMNS ARE TO BE STRUT JOISTS, DESIGNED TO RESIST END MOMENTS AS INDICATED ON THE DRAWINGS.
11. LIVE LOAD DEFLECTION CRITERIA SHALL BE L/360 UNLESS OTHERWISE NOTED.
12. CONTRACTOR SHALL REPORT TO ENGINEER ANY EQUIPMENT LOADS TO BE SUPPORTED BY JOISTS NOT SHOWN ON DRAWINGS.

METAL DECK

1. ROOF DECK SHALL BE 38 mm DEEP PROFILE, 0.76 mm, WITH RIB SPACING OF 150 mm
2. DECK SHALL BE MINIMUM GRADE A WITH A MINIMUM GALVANIZED ZINC COATING TO Z275.
3. DECK SHALL BE ARC SPOT WELDED TO BEARING SUPPORTS AT 300 mm O/C. WELDS SHALL BE 20 mm DIAMETER.
4. SIDE LAPS SHALL BE MECHANICALLY FASTENED (BUTTON-PUNCHED) AT 600 mm ON-CENTRE.
5. DECK FASTENING USING POWDER-ACTUATED DRIVE PINS AND SIDELAP SCREWS IS NOT AN ACCEPTABLE ALTERNATE TO PUDDLE WELDS AND BUTTON-PUNCHING.
6. DECK SUPPLIER SHALL REINFORCE OPENINGS OVER 150 mm TO 300 mm ACROSS THE FLUTES WITH MINIMUM L65 x 65 x 6.4 EACH SIDE OF OPENING PERPENDICULAR TO FLUTES. ANGLE SHALL BE WELDED TO AT LEAST TWO FLUTES ON EACH SIDE OF OPENING.
7. DECK SUPPLIER SHALL REINFORCE OPENINGS UP TO 450 mm ACROSS THE FLUTES WITH SUITABLE REINFORCEMENT BASED ON A STRUCTURAL ANALYSIS OF THE LOADS INVOLVED.
8. TOUCH UP DECK WITH ZINC RICH PAINT WHERE ZINC COATING HAS BEEN BURNED BY WELDING.

STAIRS AND GUARDRAILS

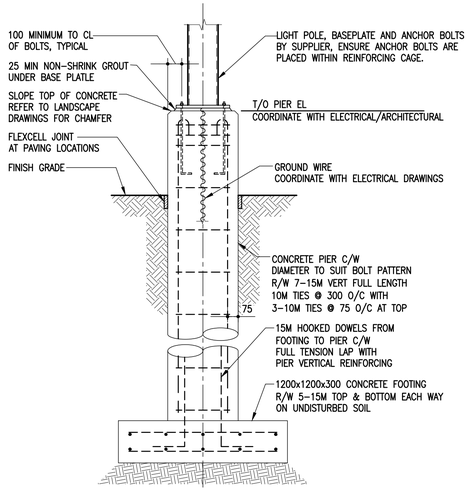
1. FOR ALL STEEL STAIRS AND GUARDRAILS, SUPPLIERS ARE TO SUBMIT ENGINEERING DRAWINGS BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF MANITOBA FOR REVIEW BY THE PROJECT ENGINEER, PRIOR TO FABRICATION. ENGINEERING SHOP DRAWINGS



A TYPICAL FLAGPOLE PILE

S1-02 | S1-02 1:20

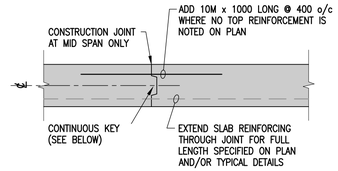
- COORDINATE QUANTITY AND LOCATIONS REQUIRED WITH CIVIL AND ARCHITECTURAL DRAWINGS.
- U/S FOOTING ELEVATION 97300± (TO BE SITE CONFIRMED BY GEOTECHNICAL ENGINEER OF RECORD).



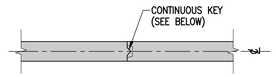
B TYPICAL LIGHT STANDARD PILE

S1-02 | S1-02 1:20

- COORDINATE QUANTITY AND LOCATIONS REQUIRED WITH ELECTRICAL, CIVIL AND ARCHITECTURAL DRAWINGS.
- U/S FOOTING ELEVATION 97300± (TO BE SITE CONFIRMED BY GEOTECHNICAL ENGINEER OF RECORD).



STRUCTURAL SLAB



CONSTRUCTION JOINT KEY SIZE

150 TO 250 SLAB – 38x89 KEY

C CONSTRUCTION JOINTS IN BEAMS & SLABS

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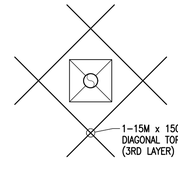
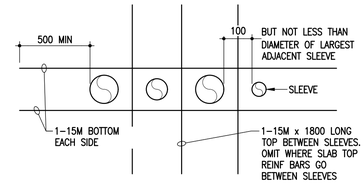
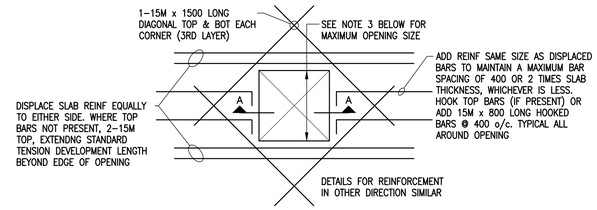


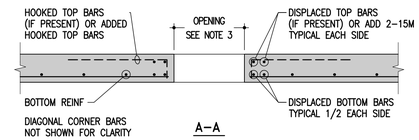
FLOOR DRAINS



SLEEVES



OPENINGS

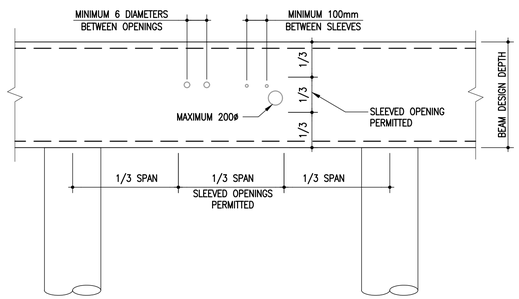


D REINFORCING AT OPENINGS IN STRUCTURAL SLABS

S1-02 | S1-02 1:20

NOTES:

1. UNLESS NOTED OTHERWISE ON THE STRUCTURAL DRAWINGS, REINFORCE AT OPENINGS AS PER DETAILS ABOVE.
2. DO NOT MAKE OPENINGS LARGER THAN THE MAXIMUM DIMENSIONS NOTED ABOVE WITHOUT PRIOR APPROVAL FROM THE CONSULTANT OR UNLESS NOTED ON STRUCTURAL DRAWINGS.
3. RESTRICTIONS ON OPENING SIZE AND LOCATION:
   a) ONE-WAY SLABS & TWO-WAY SLABS – MAXIMUM OPENING SIZE IS 750(30") SQUARE.
   b) FLAT SLABS AND FLAT PLATES:
      i) MAKE NO OPENINGS WITHIN TWICE THE SLAB DEPTH FROM THE FACE OF A COLUMN OR EDGE OF A CAPITAL EXCEPT AS NOTED ON THE STRUCTURAL DRAWINGS.
      ii) MAXIMUM OPENING SIZES:
   - IN AREAS COMMON TO 2 COLUMN STRIPS – NOT GREATER THAN 1/8 OF THE SMALLER OF THE TWO COLUMN STRIP WIDTHS.
   - IN AREAS COMMON TO ONE COLUMN STRIP & ONE MIDDLE STRIP – NOT GREATER THAN 1/4 OF THE SMALLER OF THE TWO STRIP WIDTHS.
   - IN AREAS COMMON TO 2 MIDDLE STRIPS – NOT GREATER THAN 1/2 OF THE SMALLER OF THE TWO MIDDLE STRIP WIDTHS.

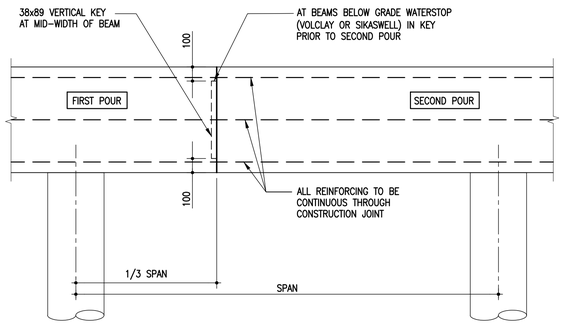


E GRADE BEAM SLEEVE DIAGRAM

S1-02 | S1-02 1:20

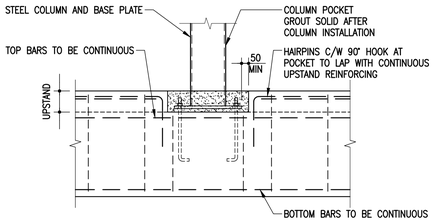
BEAM SLEEVE DIAGRAM

1. ALL BEAM SLEEVE OPENINGS SHALL BE LOCATED WITHIN THE MIDDLE 1/3 OF BEAM DESIGN HEIGHT & MIDDLE 1/3 SPAN TO THE APPROVAL OF THE CONSULTANT.
2. OPENINGS SHALL BE FORMED IN BEAM PRIOR TO CONCRETE PLACEMENT.
3. MECHANICAL & ELECTRICAL CONTRACTORS TO SLEEVING SHOP DRAWINGS TO THE STRUCTURAL CONSULTANT PRIOR TO THE START OF CONSTRUCTION. ALL SERVICES SHALL BE INDICATED WITH LOCATIONS AND ELEVATIONS GIVEN.



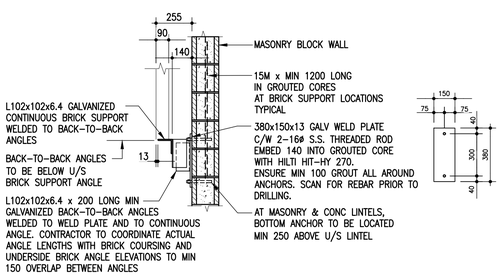
F GRADE BEAM CONSTRUCTION JOINT DETAIL

S1-02 | S1-02 1:20



G COLUMN POCKET DETAIL AT UPSTAND

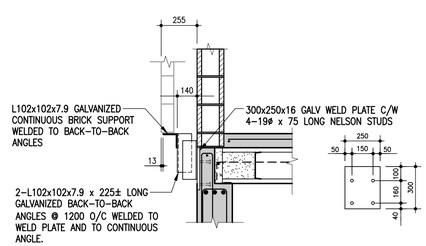
S1-02 | S1-02 1:20



FOR BRICK HEIGHT:	0 – 3000 SPACE @ 1200 O/C MAX 3000 – 6000 SPACE @ 800 O/C MAX

H MASONRY SUPPORT DETAIL AT BLOCK WALLS

S1-02 | S1-02 1:20



J TYPICAL BRICK SUPPORT DETAIL

S1-02 | S1-02 1:20

- BRICK SUPPORT ANGLE TO BE UPTURNED AT ENTRANCE SLABS

MASONRY SUPPORT NOTES:

- ALL SHELF ANGLES, PLATES, ETC. SHALL BE GALVANIZED.
- TOUCH UP ALL WELDING WITH ZINC RICH PAINT.
- MASONRY SUPPORT @ MAX 200 FROM CORNERS & ENDS. MASONRY SUPPORT @ MAX 200 EACH SIDE OF CONTROL JOINTS. (SEE ARCH DRAWINGS FOR LOCATIONS)
- REFER TO STRUCTURAL PLANS FOR EXTENT OF SUPPORT ANGLE.
- FOR PORTIONS OF MASONRY BETWEEN WINDOWS AND/OR DOORS LESS THAN 1200 WIDE, MIN 2 WELD PLATES & BACK-TO-BACK SUPPORTS FOR ANGLE.
- ENSURE SUPPORTS ARE LOCATED TO MISS POCKETS IN BEAMS AND UPSTANDS FOR NECESSARY BASEPLATES

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issue / rev.

#	date	issue notes
0	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

PROFESSIONAL ENGINEER PROVINCE OF MANITOBA N.R. MOSCOVITCH Member 33947 2023-03-24 REGISTERED PROFESSIONAL ENGINEER

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Winnipeg, MB

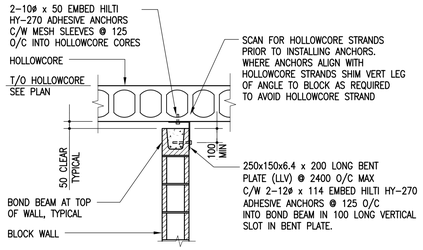
NEW WEST STEINBACH ELEMENTARY SCHOOL
Parkland Drive, Steinbach, MB.

drawing information

TYPICAL DETAILS

drawn by:	CJM
approved by:	NM
scale:	AS NOTED
date issued:	2023.03.24
proj. #:	2021.49
rev. #:	R-0

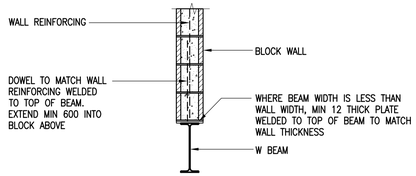
S1 02



TYPICAL MASONRY PARTITION WALL LATERAL SUPPORT AT U/S HOLLOWCORE

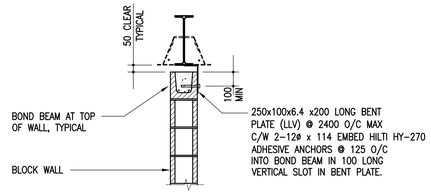
A S1-03 | S1-03 1:20

- SIMILAR WHERE BLOCK WALL IS PERPENDICULAR TO HOLLOWCORE SPAN DIRECTION
- TYPICAL AT ALL FREE ENDS OF MASONRY WALLS, AND ON ALL MASONRY WALLS GREATER THAN 4500 LONG BETWEEN PERPENDICULAR CONNECTING MASONRY PARTITION WALLS. SEE DETAIL M/S1-03.



TYPICAL LOAD BEARING BLOCK WALL CONNECTION ON STEEL BEAM/LINTEL

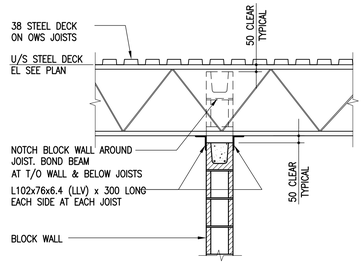
B S1-03 | S1-03 1:20



MASONRY PARTITION WALL CONNECTION PARALLEL TO STEEL BEAMS

C S1-03 | S1-03 1:20

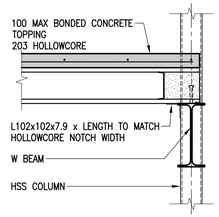
- TYPICAL AT ALL FREE ENDS OF MASONRY WALLS, AND ON ALL MASONRY WALLS GREATER THAN 4500 LONG BETWEEN PERPENDICULAR CONNECTING MASONRY PARTITION WALLS. SEE DETAIL M/S1-03.



MASONRY PARTITION WALL CONNECTION PERPENDICULAR TO JOISTS

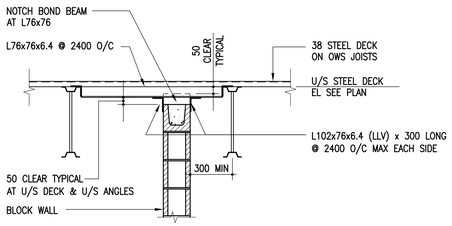
D S1-03 | S1-03 1:20

- TYPICAL AT ALL FREE ENDS OF MASONRY WALLS, AND ON ALL MASONRY WALLS GREATER THAN 4500 LONG BETWEEN PERPENDICULAR CONNECTING MASONRY PARTITION WALLS. SEE DETAIL M/S1-03.



TYPICAL HOLLOWCORE NOTCH SUPPORT DETAIL

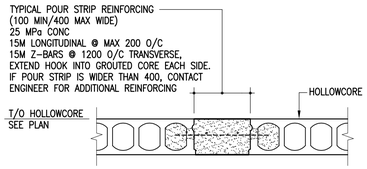
E S1-03 | S1-03 1:20



MASONRY PARTITION WALL CONNECTION PARALLEL TO JOISTS

F S1-03 | S1-03 1:20

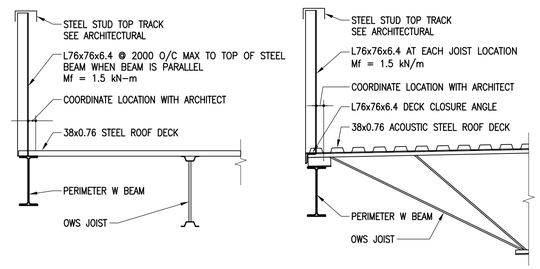
- TYPICAL AT ALL FREE ENDS OF MASONRY WALLS, AND ON ALL MASONRY WALLS GREATER THAN 4500 LONG BETWEEN PERPENDICULAR CONNECTING MASONRY PARTITION WALLS. SEE DETAIL M/S1-03.



TYPICAL HOLLOWCORE POUR STRIP DETAIL

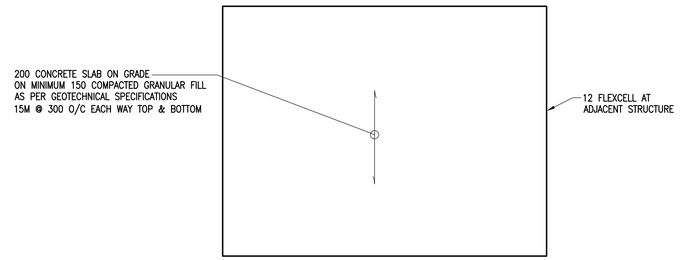
G S1-03 | S1-03 1:20

- TYPICAL AT ALL FREE ENDS OF MASONRY WALLS, AND ON ALL MASONRY WALLS GREATER THAN 4500 LONG BETWEEN PERPENDICULAR CONNECTING MASONRY PARTITION WALLS. SEE DETAIL M/S1-03.



TYPICAL PARAPET STIFFENER DETAIL WHERE PARAPET IS GREATER THAN 650 ABOVE U/S STEEL DECK AT FRAMING

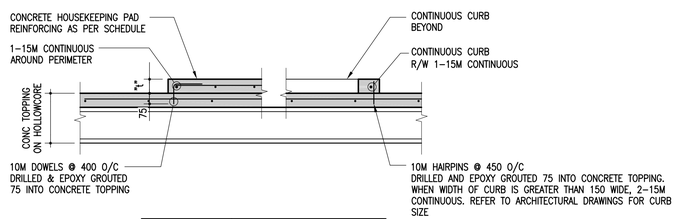
H S1-03 | S1-03 1:20



GARBAGE ENCLOSURE, ELECTRICAL/MECHANICAL EXTERIOR EQUIPMENT PAD

J S1-03 | S1-03 1:20

- CONFIRM EXACT SIZE AND LOCATION WITH LANDSCAPING, MECHANICAL AND ELECTRICAL

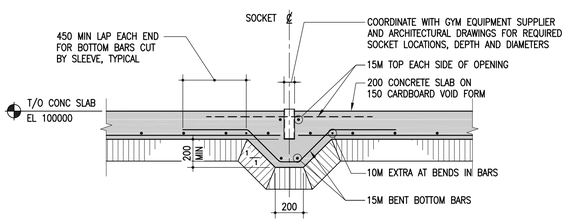


PAD THICKNESS 't'	REINFORCEMENT
150	10M @ 300 O/C EACH WAY
100	10M @ 400 O/C EACH WAY

HOUSEKEEPING PAD/CURB DETAIL

K S1-03 | S1-03 1:20

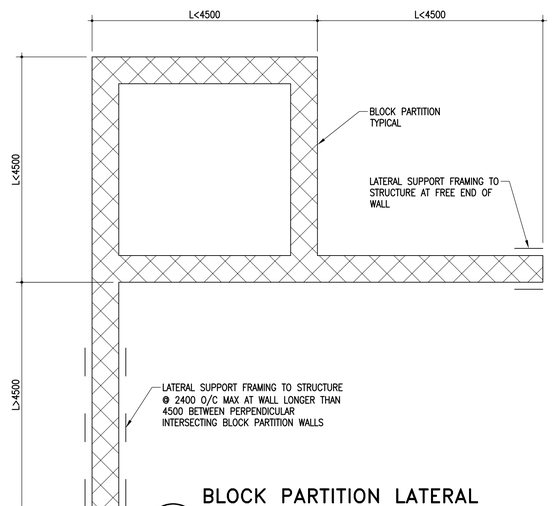
- SEE MECHANICAL/ELECTRICAL DRAWINGS FOR HOUSEKEEPING PAD SIZES AND LOCATIONS.



GYM FLOOR SOCKET DETAIL

L S1-03 | S1-03 1:20

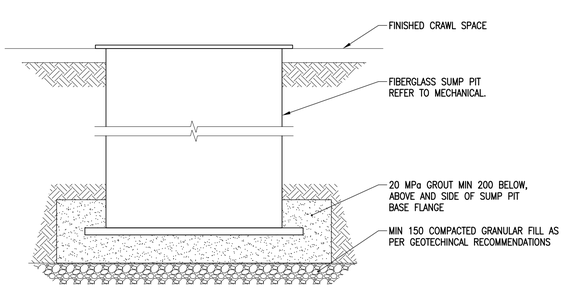
- WHERE SOCKET IS LOCATED ABOVE PILE CAP NO THICKENING IS REQUIRED. IF LOCATED WITHIN 600 OF PIER EDGE CONTACT STRUCTURAL ENGINEER.



BLOCK PARTITION LATERAL SUPPORT LOCATION PLAN

M S1-03 | S1-03 1:20

- WHERE SOCKET IS LOCATED ABOVE PILE CAP NO THICKENING IS REQUIRED. IF LOCATED WITHIN 600 OF PIER EDGE CONTACT STRUCTURAL ENGINEER.



TYPICAL FIBERGLASS SUMP PIT BASE DETAIL

N S1-03 | S1-03 1:20

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issue / rev.

#	date	issue notes
0	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

PROVINCE OF MANITOBA N.R. MOSCOVITCH Member 33947 2023.03.24 REGISTERED PROFESSIONAL ENGINEER

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Winnipeg, MB

drawing information

TYPICAL DETAILS

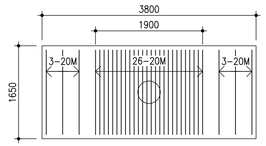
drawn by: **CJM**
approved by: **NM**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

NEW WEST STEINBACH ELEMENTARY SCHOOL
Parkland Drive, Steinbach, MB.

S1 03

FOOTING SCHEDULE

MARK	WIDTH	LENGTH	DEPTH	REINFORCING
F1	600	600	300	3–15M BOTTOM EACH WAY
F2	1000	1000	300	4–15M BOTTOM EACH WAY
F3	1500	1500	325	6–15M BOTTOM EACH WAY
F4	1750	1750	400	7–20M BOTTOM EACH WAY
F5	2000	2000	450	8–20M BOTTOM EACH WAY
F6	2400	2400	475	9–20M BOTTOM EACH WAY
F7	2430	2300	350	22–20M LONGITUDINAL BOTTOM UPPER LAYER 10–20M TRANSVERSE BOTTOM LOWER LAYER
F8	3000	2300	400	22–20M LONGITUDINAL BOTTOM UPPER LAYER 15–20M TRANSVERSE BOTTOM LOWER LAYER
F9	3800	1650	475	13–20M LONGITUDINAL BOTTOM UPPER LAYER 32–20M TRANSVERSE BOTTOM LOWER LAYER SPACED AS SHOWN 

STRIP FOOTING SCHEDULE

MARK	WIDTH	DEPTH	REINFORCING
SF1	600	300	3–15M LONGITUDINAL 15M TRANSVERSE @ 300 O/C
SF2	900	300	4–15M LONGITUDINAL 15M TRANSVERSE @ 300 O/C
SF3	1200	300	5–15M LONGITUDINAL 15M TRANSVERSE @ 300 O/C
SF4	1400	300	5–15M LONGITUDINAL 15M TRANSVERSE @ 300 O/C
SF5	1800	300	7–15M LONGITUDINAL 15M TRANSVERSE @ 225 O/C

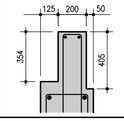
CONCRETE PIER SCHEDULE

MARK	SIZE	DESCRIPITON
P1	400ø	5–15M VERTICALS C/W 180 DEGREE HOOK 10M TIES @ 240 O/C (TOP 3 AT 100 O/C) 4–15M HOOKED DOWELS TO LAP WITH FOOTING BOTTOM REINFORCING 4–15M HOOKED DOWELS TO LAP WITH SLAB TOP REINFORCING OR 4–15M x 900 LONG DOWELS C/W MIN 450 EMBED TO CONCRETE BEAM ABOVE
P2	600ø	7–15M VERTICALS C/W 180 DEGREE HOOK 10M TIES @ 350 O/C (TOP 3 AT 100 O/C) 4–15M HOOKED DOWELS TO LAP WITH FOOTING BOTTOM REINFORCING

CONCRETE SLAB SCHEDULE

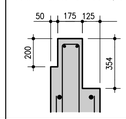
MARK	DESCRIPTION
S1	150 CONCRETE SLAB 10M @ 300 O/C EACH WAY BOTTOM 150 CARDBOARD VOID FORM
S2	200 CONCRETE SLAB 15M @ 300 O/C EACH WAY BOTTOM 150 CARDBOARD VOID FORM
S3	200 CONCRETE SLAB 15M @ 250 O/C EACH WAY BOTTOM 150 CARDBOARD VOID FORM
S4	300 CONCRETE SLAB 25M @ 300 O/C TOP & BOTTOM EACH WAY 150 CARDBOARD VOID FORM
S5	200 CONCRETE SLAB 15M @ 300 O/C TOP & BOTTOM EACH WAY ON COMPACTED GRANULAR AS PER GEOTECHNICAL SPECIFICATIONS

CONCRETE BEAM SCHEDULE

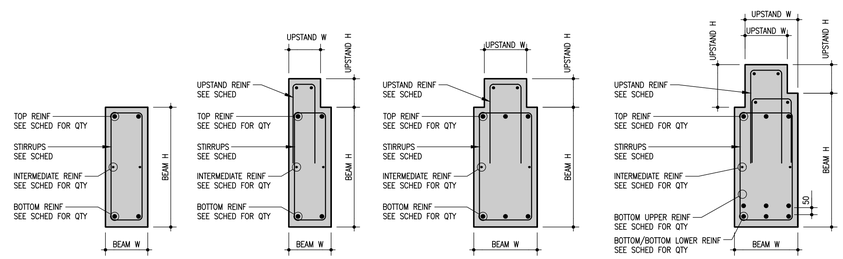
MARK	WIDTH (W)	DEPTH (H)	UPSTAND	REINFORCING	TYPE
B1	300	750		3–25M TOP & BOTTOM CONTINUOUS 2–10M HORIZONTAL CONTINUOUS EACH FACE 10M STIRRUPS @ 400 O/C	A
B2	300	800		3–25M TOP & BOTTOM CONTINUOUS 2–10M HORIZONTAL CONTINUOUS EACH FACE 10M STIRRUPS @ 400 O/C	A
B3	250	750	200 WIDE x 200 HIGH 2–15M TOP CONTINUOUS 10M U–BARS @ 400 O/C	2–25M TOP & BOTTOM CONTINUOUS 2–10M HORIZONTAL CONTINUOUS EACH FACE 10M STIRRUPS @ 400 O/C	B
B4	300	800	150 WIDE x 51 HIGH	3–25M TOP & BOTTOM CONTINUOUS 2–10M HORIZONTAL CONTINUOUS EACH FACE 10M STIRRUPS @ 400 O/C	B
B5	200	600		2–20M TOP & BOTTOM CONTINUOUS 10M STIRRUPS @ 300 O/C	A
B6	250	800	200 WIDE x 254 HIGH 2–15M TOP CONTINUOUS 10M U–BARS @ 400 O/C	2–25M TOP & BOTTOM 2–10M HORIZONTAL CONTINUOUS EACH FACE 10M STIRRUPS @ 300 O/C	B
B7	475	800	300 WIDE x 354 HIGH 2–15M TOP CONTINUOUS 10M U–BARS @ 400 O/C	3–25M TOP & BOTTOM CONTINUOUS 2–10M HORIZONTAL CONTINUOUS EACH FACE 10M STIRRUPS @ 400 O/C	C
B8	375	800	200/325 WIDE x 405/51 HIGH 2–15M TOP CONTINUOUS 10M U–BARS @ 400 O/C 	2–25M TOP CONTINUOUS 3–25M BOTTOM LOWER LAYER CONTINUOUS 2–25M BOTTOM UPPER LAYER CONTINUOUS 10M STIRRUPS @ 300 O/C	D
B9	300	800	150 WIDE x 305 HIGH 2–15M TOP CONTINUOUS 10M U–BARS @ 400 O/C	3–25M TOP & BOTTOM CONTINUOUS 2–10M HORIZONTAL CONTINUOUS EACH FACE 10M STIRRUPS @ 400 O/C	B
B10	300	800	200 WIDE x 254 HIGH 2–15M TOP CONTINUOUS 10M U–BARS @ 400 O/C	3–25M TOP & BOTTOM CONTINUOUS 2–10M HORIZONTAL CONTINUOUS EACH FACE 10M STIRRUPS @ 250 O/C	C

NOTES:
- 150 CARDBOARD VOID FORM BELOW ALL CONCRETE BEAMS AT GRADE.

CONCRETE WALL SCHEDULE

MARK	WIDTH (W)	UPSTAND	REINFORCING	TYPE
CW1	250	125 WIDE x 254 HIGH 1–15M TOP CONTINUOUS 10M HAIRPINS @ 400 O/C	2–25M TOP & BOTTOM CONTINUOUS 10M HORIZONTAL CONTINUOUS @ 300 O/C EACH FACE 15M VERTICAL @ 300 O/C EACH FACE	B
CW2	250	200 WIDE x 254 HIGH 2–15M TOP CONTINUOUS 10M U–BARS @ 400 O/C	2–25M TOP & BOTTOM CONTINUOUS 10M HORIZONTAL CONTINUOUS @ 300 O/C EACH FACE 15M VERTICAL @ 300 O/C EACH FACE	B
CW3	350	300 WIDE x 354 HIGH 2–15M TOP CONTINUOUS 10M U–BARS @ 400 O/C	2–25M TOP & BOTTOM CONTINUOUS 10M HORIZONTAL CONTINUOUS @ 300 O/C EACH FACE 15M VERTICAL @ 300 O/C EACH FACE	B
CW4	350	200 WIDE x 354 HIGH 2–15M TOP CONTINUOUS 10M U–BARS @ 400 O/C	2–25M TOP & BOTTOM CONTINUOUS 10M HORIZONTAL CONTINUOUS @ 300 O/C EACH FACE 15M VERTICAL @ 300 O/C EACH FACE	B
CW5	250	125 WIDE x 305 HIGH 1–15M TOP CONTINUOUS 10M HAIRPINS @ 400 O/C	2–25M TOP & BOTTOM CONTINUOUS 10M HORIZONTAL CONTINUOUS @ 300 O/C EACH FACE 15M VERTICAL @ 300 O/C EACH FACE	B
CW6	250	200 WIDE x 305 HIGH 2–15M TOP CONTINUOUS 10M U–BARS @ 400 O/C	2–25M TOP & BOTTOM CONTINUOUS 10M HORIZONTAL CONTINUOUS @ 300 O/C EACH FACE 15M VERTICAL @ 300 O/C EACH FACE	B
CW7	425	300 WIDE x 354 HIGH 2–15M TOP CONT 10M U–BARS @ 400 O/C	2–25M TOP & BOTTOM CONTINUOUS 10M HORIZONTAL CONTINUOUS @ 300 O/C EACH FACE 15M VERTICAL @ 300 O/C EACH FACE	B
CW8	350	175/225 WIDE x 354/154 HIGH 2–15M TOP CONTINUOUS 10M U–BARS @ 400 O/C 	2–25M TOP & BOTTOM CONTINUOUS 10M HORIZONTAL CONTINUOUS @ 300 O/C EACH FACE 15M VERTICAL @ 300 O/C EACH FACE	D
CW9	250	200 WIDE x 354 HIGH 2–15M TOP CONTINUOUS 10M U–BARS @ 400 O/C	2–25M TOP & BOTTOM CONTINUOUS 10M HORIZONTAL CONTINUOUS @ 300 O/C EACH FACE 15M VERTICAL @ 300 O/C EACH FACE	B
CW10	200		2–20M TOP & BOTTOM CONTINUOUS 10M HORIZONTAL CONTINUOUS @ 300 O/C EACH FACE 15M VERTICAL @ 300 O/C EACH FACE	A
CW11	250	200 WIDE x 354 HIGH 2–15M TOP CONTINUOUS 10M U–BARS @ 400 O/C	2–25M TOP & BOTTOM CONTINUOUS 10M HORIZONTAL CONTINUOUS @ 300 O/C EACH FACE 15M VERTICAL @ 300 O/C EACH FACE	B

NOTES:
- ALL WALLS TO BE SUPPORTED ON CONTINUOUS STRIP FOOTINGS AS PER FOUNDATION PLANS ON S201–S203



TYPE 'A' TYPE 'B' TYPE 'C' TYPE 'D'

CONCRETE COLUMN SCHEDULE

MARK	DESCRIPTION
CC1	290x600 CONCRETE COLUMN 8–20M VERTICAL 10M TIES @ 300 O/C • ROUND EXPOSED CORNERS AS PER ARCHITECTURAL

CONCRETE LINTEL SCHEDULE

MARK	DESCRIPTION
CL1	290x1600 CONCRETE LINTEL 2–30M TOP CONT 6–30M BOTTOM CONT (3 LAYERS – MIN 50 CLEARANCE BETWEEN BARS) 5–10M HORIZONTAL EACH FACE 10M TIES @ 350 O/C

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2022-0079

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Parkland Drive, Steinbach, MB

drawing information

SCHEDULES

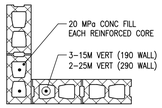
drawn by:	CJM
approved by:	NM
scale:	AS NOTED
date issued:	2023.03.24
proj. #:	2021.49
rev. #:	R-0

S1 04

MASONRY WALL SCHEDULE

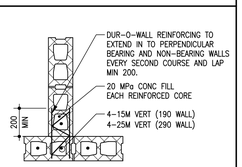
MARK	DESCRIPTION
MW1	190 MASONRY BLOCK WALL (30 MPa) FULLY GROUTED EACH CORE 15M VERTICALS @ 800 O/C
MW2	190 MASONRY BLOCK WALL (30 MPa) 15 VERTICALS @ 200 O/C IN FULLY GROUTED CORES
MW3	190 MASONRY BLOCK WALL (30 MPa) 15M VERTICALS @ 800 O/C IN GROUTED CORES
MW4	290 MASONRY BLOCK WALL (30 MPa) 25M VERTICALS @ 800 O/C IN GROUTED CORES
MW5	290 MASONRY BLOCK WALL (30 MPa) FULLY GROUTED EACH CORE 25M VERTICALS @ 800 O/C

NOTES:
- VERTICAL DOWELS FROM TOP OF CONCRETE WALL OR BEAM TO MATCH BLOCK WALL REINFORCING SIZE & SPACING. FOR NON-LOAD BEARING BLOCK WALLS, MIN 15M DOWELS @ 1200 O/C. REINFORCING TO EXTEND MIN 600 INTO BLOCK WALL IN GROUTED CORES.
- STANDARD DUR-O-WALL HORIZONTAL JOINT REINFORCING AT 400 O/C IN ALL BLOCK WALLS, U/N OTHERWISE.
- 200 DEEP BOND BEAM R/W 2-10M CONTINUOUS, 20 MPa CONC FILLED AT TOP OF WALL AND EACH FLOOR LEVEL.
- ALL REINFORCING NOTED ABOVE TO HAVE FULL TENSION SPLICE LAPS.
- CONTRACTOR TO SUBMIT FOR REVIEW ALL PROPOSED CONTROL JOINT LOCATIONS IN MASONRY BEARING WALLS.

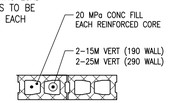


3 FILLED CORES AT CORNER

- ALL INTERSECTING LOAD BEARING WALLS TO BE TOOTHED INTO EACH OTHER.



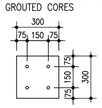
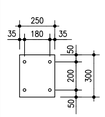
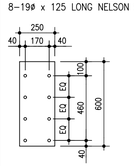
4 FILLED CORES AT T-INTERSECTIONS



2 FILLED CORES AT END OF WALL OR NEXT TO OPENINGS

- ALSO APPLIES EACH SIDE OF CONTROL JOINT LOCATIONS

WELD PLATE SCHEDULE

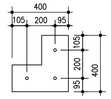
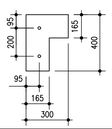
MARK	DESCRIPTION
WP1	150x250x13 WELD PLATE 2-19ø x 125 LONG NELSON STUDS IN GROUTED CORES.
WP2	300x300x13 WELD PLATE 4-19ø x 125 LONG NELSON STUDS @ 200 O/C IN GROUTED CORES 
WP3	250x300x13 WELD PLATE 4-13ø x 125 LONG NELSON STUDS IN GROUTED CORES 
WP4	250x600x19 WELD PLATE 8-19ø x 125 LONG NELSON STUDS 

MASONRY LINTEL SCHEDULE

MARK	DESCRIPTION
ML1	190x400 DEEP 2-10M TOP & BOTTOM 10M SINGLE LEG TIES @ 200 O/C
ML2	190x600 DEEP 2-15M TOP & BOTTOM 10M SINGLE LEG TIES @ 400 O/C
ML3	190x800 DEEP 2-15M TOP & BOTTOM 10M SINGLE LEG TIES @ 400 O/C
ML4	190x1400 DEEP 2-20M TOP & BOTTOM 10M SINGLE LEG TIES @ 400 O/C
ML5	290x400 DEEP 2-15M TOP & BOTTOM 10M SINGLE LEG TIES @ 200 O/C
ML6	290x600 DEEP 2-20M TOP & BOTTOM 10M SINGLE LEG TIES @ 400 O/C

NOTE:
- 400 BEARING EACH END.
- ALL LINTELS TO BE GROUTED SOLID WITH 20 MPa CONT, INCLUDING FROGS (SPACES BETWEEN BLOCKS).
- BLOCK STRENGTH TO MATCH STRENGTH OF WALL
- 190 U-BLOCK LINTEL ABOVE MECH OPENINGS 400 WIDE OR LESS R/W 2-10M BOTTOM. 200 BEARING EACH END. GROUT MIN 2 CORE BELOW BEARING. MECH OPENINGS ARE NOT TO CUT THROUGH BOND BEAM OR END OF WALL/MASONRY COLUMN REINFORCING. FOR MECH OPENINGS GREATER THAN 400 WIDE, ML1 LINTEL ABOVE U/N OTHERWISE
- 190 U-BLOCK LINTEL R/W 1-15M CONTINUOUS ABOVE SEMI-RECESSED EQUIPMENT IN BLOCK WALLS, APPLIES TO FORCED FLOW HEATERS, DRINKING FOUNTAINS, FIRE EXTINGUISHERS, ETC.
- 190 DEEP FULLY GROUTED BOND BEAM R/W 2-15M CONTINUOUS BELOW WINDOWS. EXTEND 200 PAST OPENING EACH END.

BEARING PLATE SCHEDULE

MARK	DESCRIPTION
BRG1	190x200x19 BEARING PLATE 2-13ø x 150 LONG NELSON STUDS @ 100 O/C INTO 20MPa CONCRETE FILLED CORES
BRG2	400x400x19 L-SHAPED BEARING PLATE 3-19ø x 150 LONG NELSON STUDS @ 200 O/C INTO 20MPa CONCRETE FILLED CORES 
BRG3	290x200x13 BEARING PLATE 2-13ø x 150 LONG NELSON STUDS @ 100 O/C INTO 20MPa CONCRETE FILLED CORES
BRG4	190x300x19 BEARING PLATE 2-19ø x 150 LONG NELSON STUDS @ 200 O/C INTO 20MPa CONCRETE FILLED CORES
BRG5	165x600x19 BEARING PLATE 3-19ø x 150 LONG NELSON STUDS @ 200 O/C INTO 20MPa CONCRETE FILLED CORES
BRG6	400x300x19 L-SHAPED BEARING PLATE 2-19ø x 150 LONG NELSON STUDS @ 200 O/C INTO 20MPa CONCRETE FILLED CORES 
BRG7	190x600x19 BEARING PLATE 3-15ø x 600 WELDABLE DOWELS @ 200 O/C TOP & BOTTOM (OR TOP OF BEAM) INTO 20MPa CONCRETE FILLED CORES

NOTE:
- GROUT IN MASONRY WALL TO BE TIGHT TO TOP OF BLOCK TO ENSURE FLUSH BEARING SURFACE FOR BEARING PLATES.
- GROUT SOLID AROUND ALL BEAMS AFTER INSTALLATION.

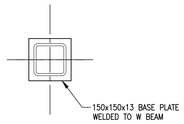
STEEL COLUMN SCHEDULE

MARK	DESCRIPTION
C1	HSS 152 x 152 x 9.5
C2	HSS 203 x 152 x 13
C3	HSS 219ø x 6.4
C4	HSS 102 x 102x 6.4
C5	HSS 152ø x 6.4
C6	HSS 168ø x 6.4
C7	HSS 102 x 102 x 9.5
C8	HSS 114 x 114 x 8.0
C9	HSS 152 x 152 x 13.0
C10	HSS 127ø x 6.4

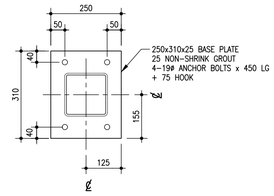
NOTE:
- REFER TO MAIN FLOOR PLANS FOR BASE PLATE TYPE AND ELEVATIONS

MASONRY COLUMN SCHEDULE

MARK	DESCRIPTION
MC1	3 CORES (190x600 WIDE) 3-15M VERTICAL (1 PER CORE)
MC2	4 CORES (190x800 WIDE) 4-15M VERTICAL (1 PER CORE)
MC3	5 CORES (190x1000 WIDE) 5-15M VERTICAL (1 PER CORE)
MC4	3 CORES (190x600 WIDE) 3-25M VERTICAL (1 PER CORE)
MC5	3 CORES (290x600 WIDE) 3-25M VERTICAL (1 PER CORE)



BP1



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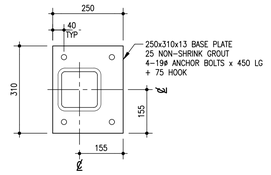

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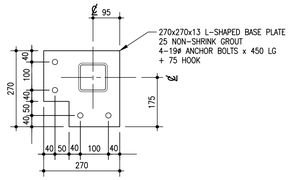

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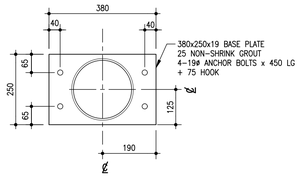

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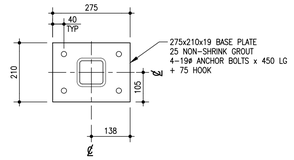

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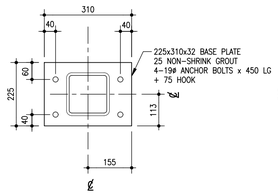

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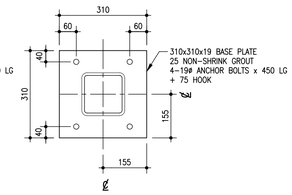

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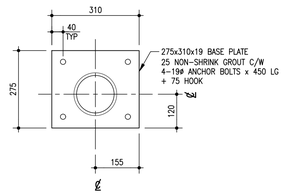

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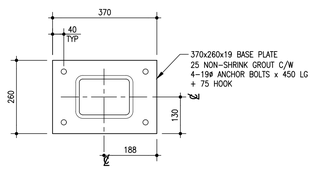

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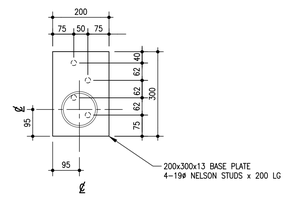

BP11

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REGISTERED PROFESSIONAL ENGINEER

project information

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91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Winnipeg, MB

drawing information

SCHEDULES

drawn by: **CJM**
approved by: **NM**

scale: **AS NOTED**
date issued: **2023.03.24**
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NEW WEST STEINBACH ELEMENTARY SCHOOL
Parkland Drive, Steinbach, MB.

S1 05

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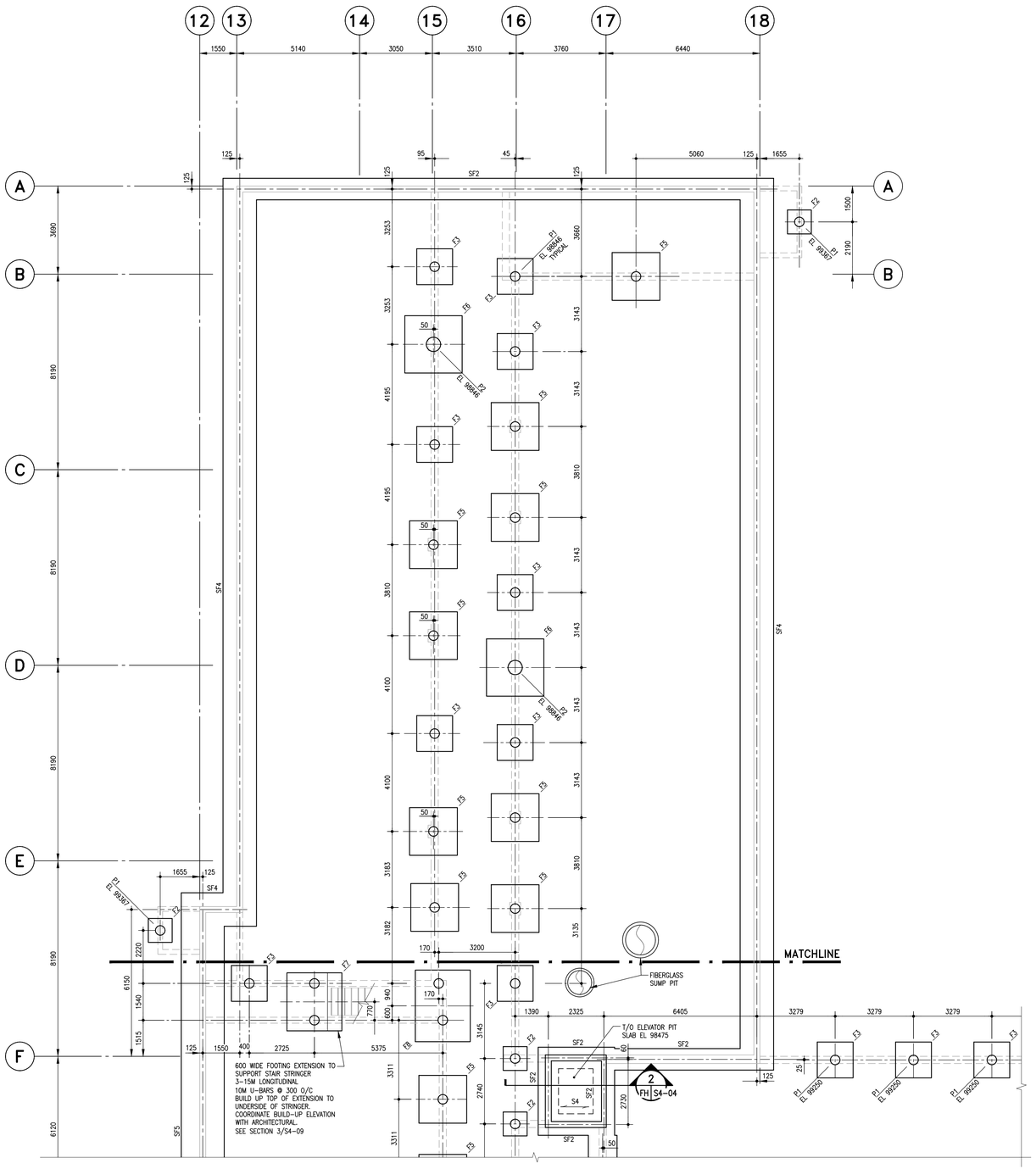


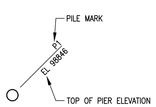
REFER TO S2-02 FOR CONTINUATION

FOUNDATION PLAN

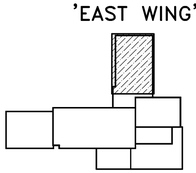
1 : 100

PLAN NOTES:

- TOP OF PIER TO BE AT EL 98846, TYPICAL.
- FOOTINGS TO BEAR ON SILT TILL.
- UNDERSIDE OF CONCRETE FOOTING ELEVATION = 97300±
  (TO BE SITE CONFIRMED BY GEOTECHNICAL ENGINEER OF RECORD).
- ENSURE MINIMUM 550 SOIL COVER ABOVE UNDERSIDE OF ALL FOOTINGS
- FOOTINGS TO BE CENTERED ON PIERS/FOUNDATION WALLS.
- REFER TO DRAWING S1-01, S1-02 & S1-03 FOR GENERAL NOTES & DETAILS.
- REFER TO DRAWING S1-04 AND S1-05 FOR SCHEDULES.
- TOP OF CRAWLSPACE ELEVATION AT FOUNDATION WALLS TO BE MINIMUM 98300. BACKSLOPE SLOPE AT 2H:1V MINIMUM TO FINISHED CRAWLSPACE ELEVATION AS PER ARCHITECTURAL DRAWINGS.



'EAST WING'



KEY PLAN

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Parkland Drive, Steinbach, MB.

drawing information

FOUNDATION PLAN EAST WING

drawn by: **CJM**
approved by: **NM**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

S2 01

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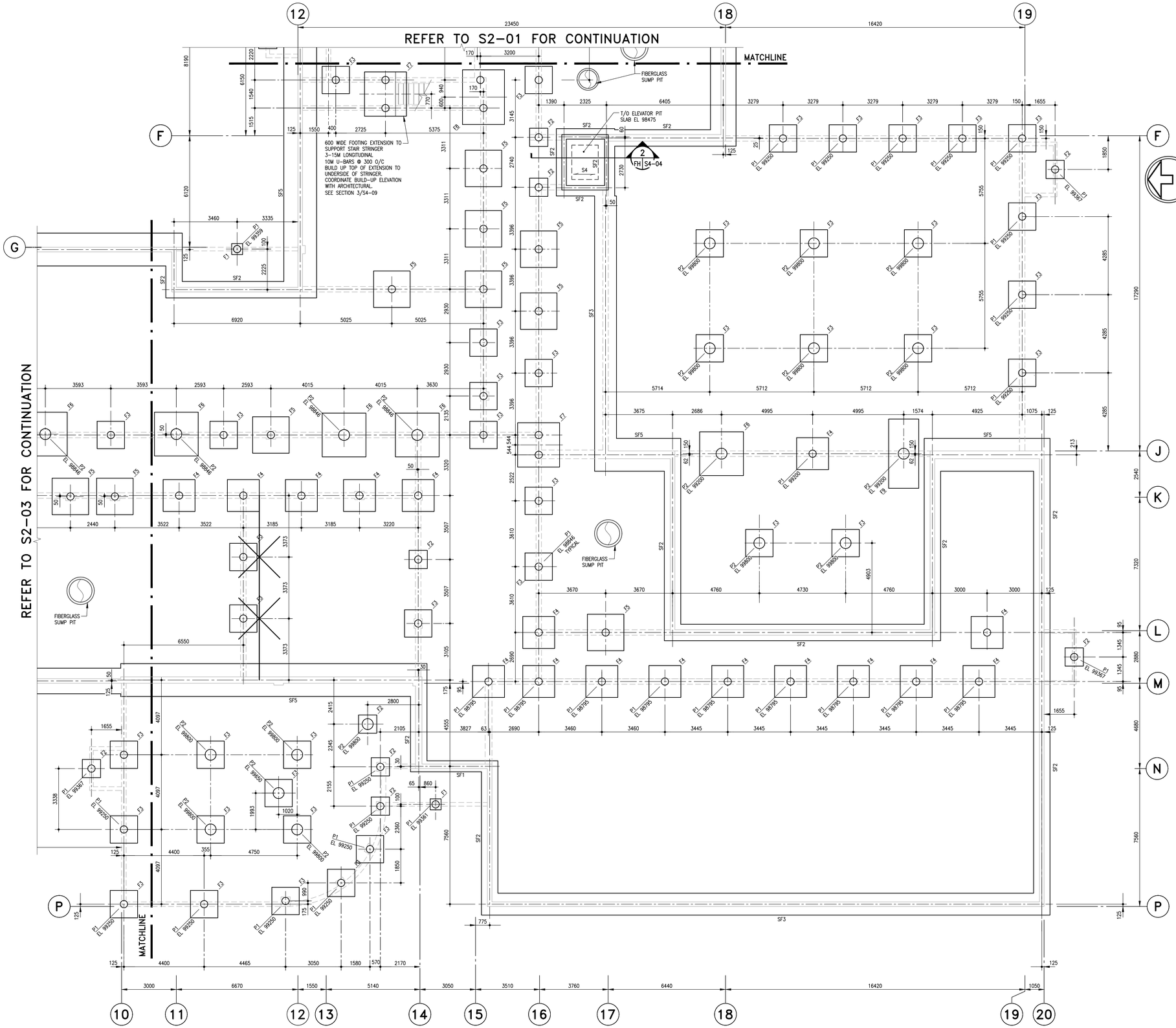
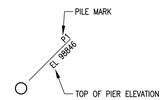


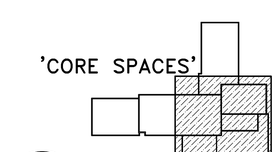
FOUNDATION PLAN

1 : 100

PLAN NOTES:

- TOP OF PIER TO BE AT EL 98846, TYPICAL.
- FOOTINGS TO BEAR ON SILT TILL.
- UNDERSIDE OF CONCRETE FOOTING ELEVATION = 97300±
  (TO BE SITE CONFIRMED BY GEOTECHNICAL ENGINEER OF RECORD).
- ENSURE MINIMUM 550 SOIL COVER ABOVE UNDERSIDE OF ALL FOOTINGS
- FOOTINGS TO BE CENTERED ON PIERS/FOUNDATION WALLS.
- REFER TO DRAWING S1-01, S1-02 & S1-03 FOR GENERAL NOTES & DETAILS.
- REFER TO DRAWING S1-04 AND S1-05 FOR SCHEDULES.
- TOP OF CRAWLSPACE ELEVATION AT FOUNDATION WALLS TO BE MINIMUM 98300. BACKSLOPE SLOPE AT 2H:1V MINIMUM TO FINISHED CRAWLSPACE ELEVATION AS PER ARCHITECTURAL DRAWINGS.





KEY PLAN
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300-275 Carlton Street
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ENGINEERS GEOSCIENTISTS MANITOBA
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No. 235

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#	date	issue notes
0	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

PROVINCE OF MANITOBA
N.R. MOSCOVITCH
Member
33947
2023-03-24
REGISTERED PROFESSIONAL ENGINEER

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Winnipeg, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
Parkland Drive, Steinbach, MB.

drawing information

FOUNDATION PLAN CORE SPACES

drawn by: **CJM**
approved by: **NM**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

S2 02

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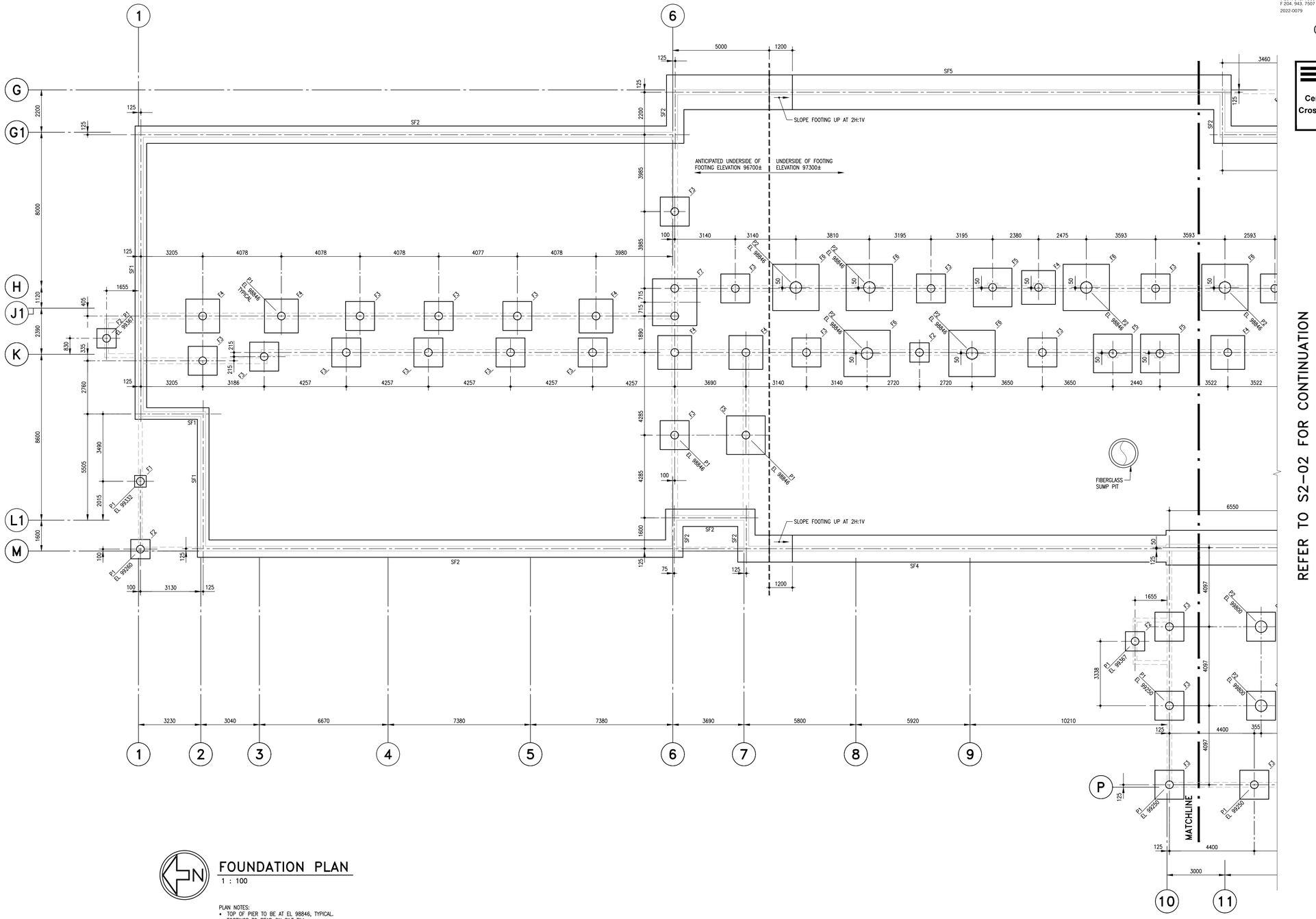
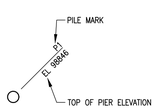
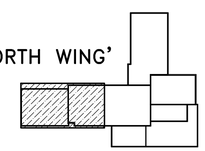


FOUNDATION PLAN
1 : 100

PLAN NOTES:
- TOP OF PIER TO BE AT EL 98846, TYPICAL.
- FOOTINGS TO BEAR ON SILT TILL.
- UNDERSIDE OF CONCRETE FOOTING ELEVATION = 97300± (TO BE SITE CONFIRMED BY GEOTECHNICAL ENGINEER OF RECORD).
- ENSURE MINIMUM 550 SOIL COVER ABOVE UNDERSIDE OF ALL FOOTINGS
- FOOTINGS TO BE CENTERED ON PIERS/FOUNDATION WALLS.
- REFER TO DRAWING S1-01, S1-02 & S1-03 FOR GENERAL NOTES & DETAILS.
- REFER TO DRAWING S1-04 AND S1-05 FOR SCHEDULES.
- TOP OF CRAWLSPACE ELEVATION AT FOUNDATION WALLS TO BE MINIMUM 98300. BACKSLOPE SLOPE AT 2H:1V MINIMUM TO FINISHED CRAWLSPACE ELEVATION AS PER ARCHITECTURAL DRAWINGS.





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N.R. MOSCOVITCH
Member
33947
2023.03.24
REGISTERED PROFESSIONAL ENGINEER

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Winnipeg, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
Parkland Drive, Steinbach, MB.

drawing information

FOUNDATION PLAN NORTH WING

drawn by: **CJM**
approved by: **NM**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

S2 03

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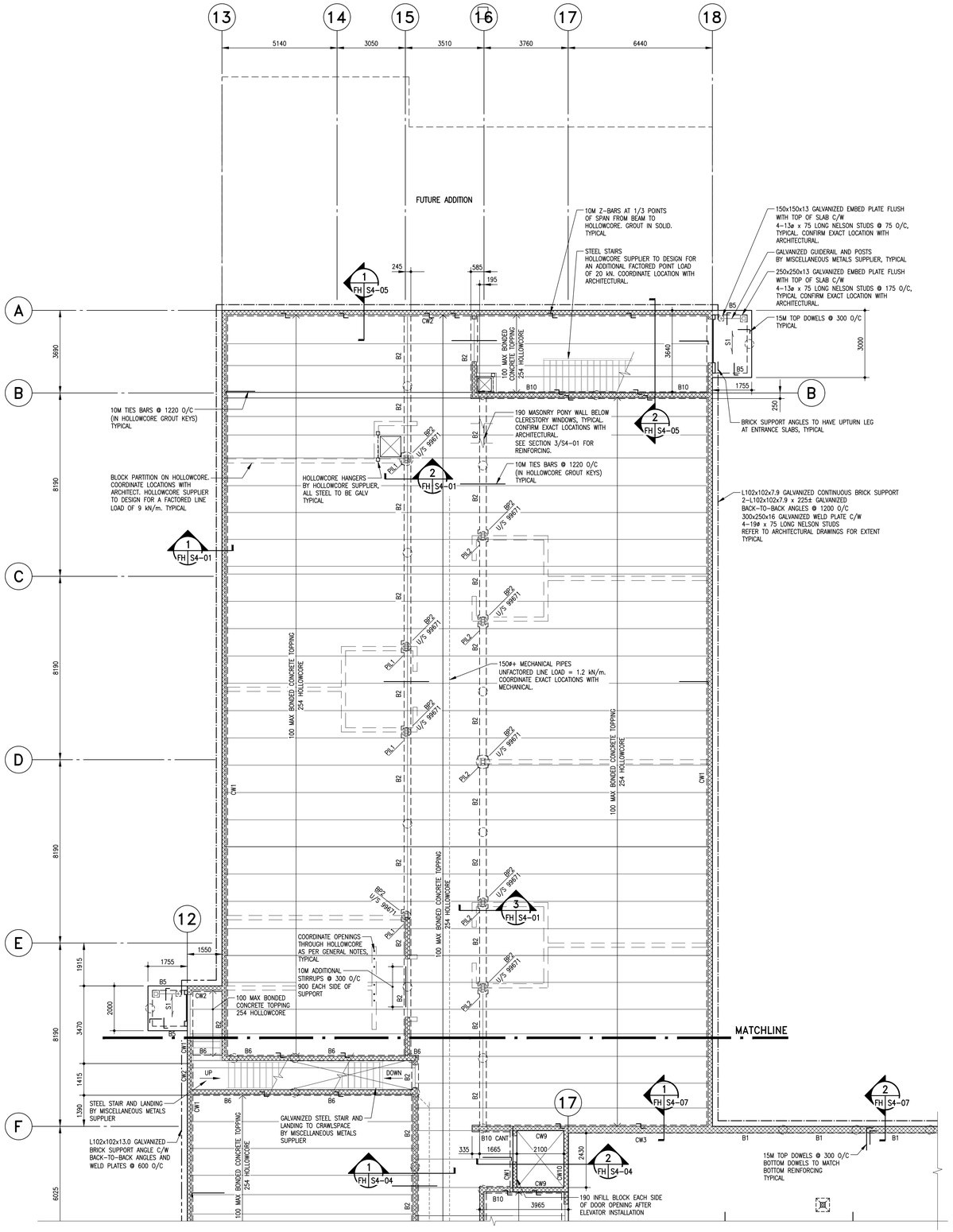
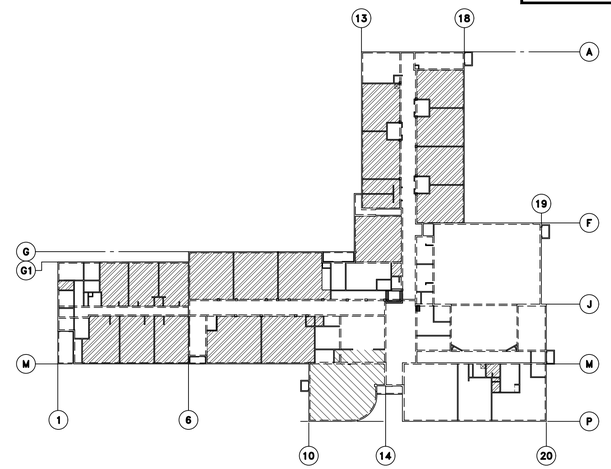


REFER TO S2-05 FOR CONTINUATION



MAIN FLOOR LIVE LOAD DIAGRAM

NTS

DESIGN LIVE LOAD:		
	TYPICAL	= 4.8 kPa
	CLASSROOMS AND WASHROOMS	= 2.4 kPa
	LIBRARY	= 7.2 kPa

MAIN FLOOR FRAMING PLAN

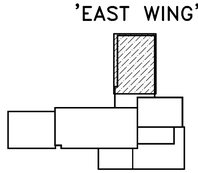
1 : 100

DESIGN DEAD LOAD:
- 254 HOLLOWCORE = 6.01 kPa
  (3.35 kPa HOLLOWCORE, 2.16 kPa TOPPING, 0.50 kPa MECHANICAL, ELECTRICAL AND FINISHES)
- 305 HOLLOWCORE = 6.64 kPa
  (3.98 kPa HOLLOWCORE, 2.16 kPa TOPPING, 0.5 kPa MECHANICAL, ELECTRICAL AND FINISHES)
- GYM SLAB & LIBRARY = 5.0 kPa.

DESIGN LIVE LOAD:
- REFER TO LIVE LOAD MAIN FLOOR DIAGRAM S2-04

PLAN NOTES:
- TOP OF HOLLOWCORE TO BE AT EL 99900 ALONG BEARING LINES.
- REFER TO DRAWING S1-01, S1-02 & S1-03 FOR GENERAL NOTES & DETAILS.
- REFER TO DRAWING S1-04 AND S1-05 FOR SCHEDULES.
- REFER TO DRAWING S5-01 FOR PILASTER DETAILS.
- REFER TO DRAWING S2-04 FOR MAIN FLOOR LIVE LOAD DIAGRAM.
- CONCRETE TOPPING TO BE REINFORCED WITH 10M @ 450 O/C EACH WAY TOP, TYPICAL.

'EAST WING'



KEY PLAN
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PROVINCE OF MANITOBA
N.R. MOSCOVITCH
Member
33947
2023-03-24
REGISTERED PROFESSIONAL ENGINEER

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Winnipeg, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
Parkland Drive, Steinbach, MB.

drawing information

MAIN FLOOR FRAMING PLAN
LIVE LOAD DIAGRAM
EAST WING

drawn by: **CJM**
approved by: **NM**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

S2 04

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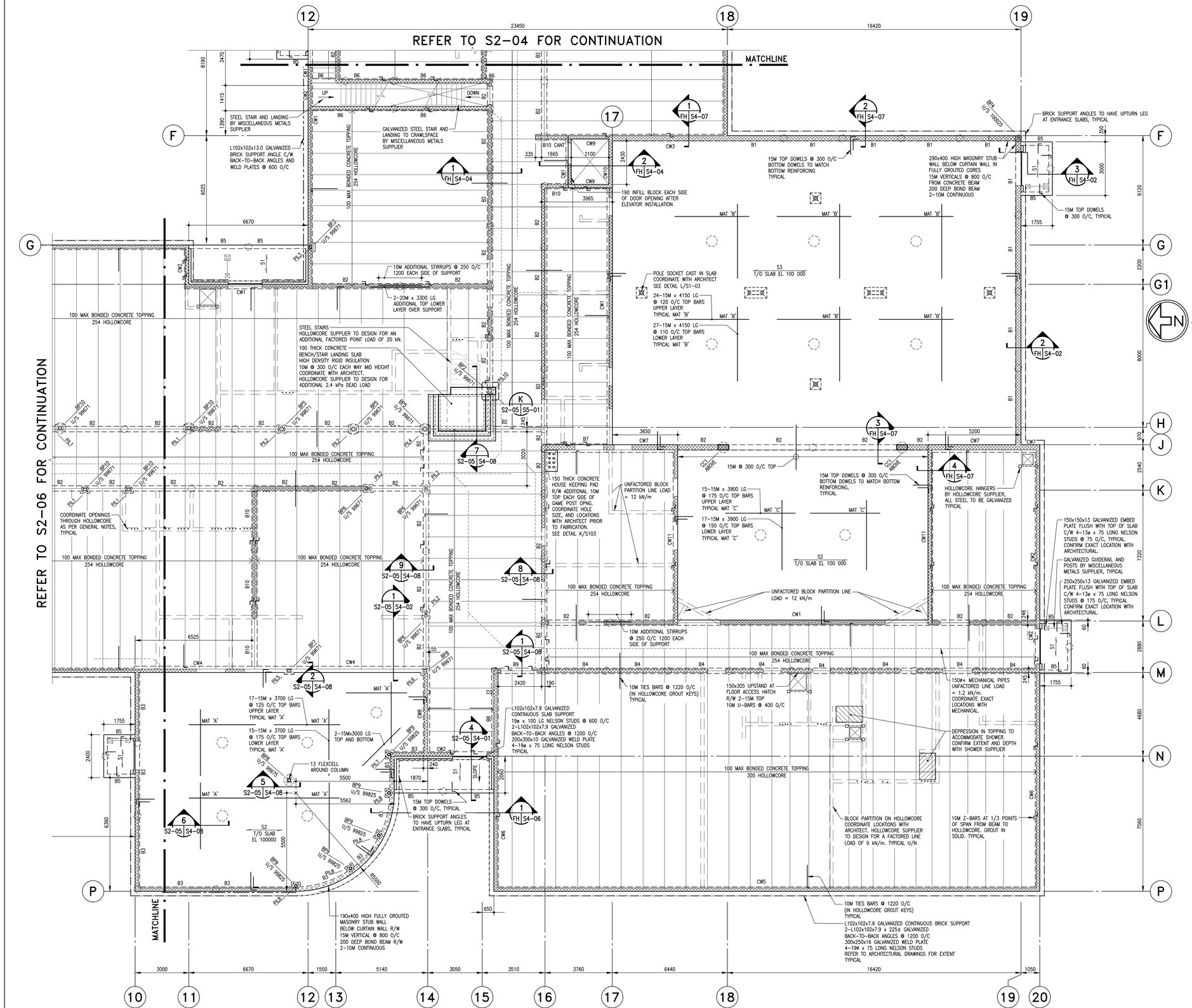


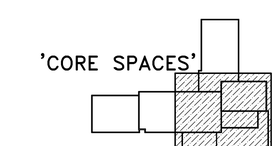
MAIN FLOOR FRAMING PLAN

1 : 100

DESIGN DEAD LOAD:
- 254 HOLLOWCORE = 6.01 kPa
  (3.35 kPa HOLLOWCORE, 2.16 kPa TOPPING, 0.50 kPa MECHANICAL, ELECTRICAL AND FINISHES)
- 305 HOLLOWCORE = 6.64 kPa
  (3.98 kPa HOLLOWCORE, 2.16 kPa TOPPING, 0.5 kPa MECHANICAL, ELECTRICAL AND FINISHES)
- GYM SLAB & LIBRARY = 5.0 kPa.

DESIGN LIVE LOAD:
- REFER TO LIVE LOAD MAIN FLOOR DIAGRAM S2-04

PLAN NOTES:
- TOP OF HOLLOWCORE TO BE AT EL 99900 ALONG BEARING LINES.
- REFER TO DRAWING S1-01, S1-02 & S1-03 FOR GENERAL NOTES & DETAILS.
- REFER TO DRAWING S1-04 AND S1-05 FOR SCHEDULES.
- REFER TO DRAWING S5-01 FOR PILASTER DETAILS.
- REFER TO DRAWING S2-04 FOR MAIN FLOOR LIVE LOAD DIAGRAM.
- CONCRETE TOPPING TO BE REINFORCED WITH 10M @ 450 O/C EACH WAY TOP, TYPICAL.



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N.R. MOSCOVITCH
Member
33947
2023-03-24
REGISTERED PROFESSIONAL ENGINEER

project information

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Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Winnipeg, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
Parkland Drive, Steinbach, MB.

drawing information

MAIN FLOOR FRAMING PLAN CORE SPACES

drawn by:	**CJM**
approved by:	**NM**
scale:	**AS NOTED**
date issued:	**2023.03.24**
proj. #:	**2021.49**
rev. #:	**R-0**

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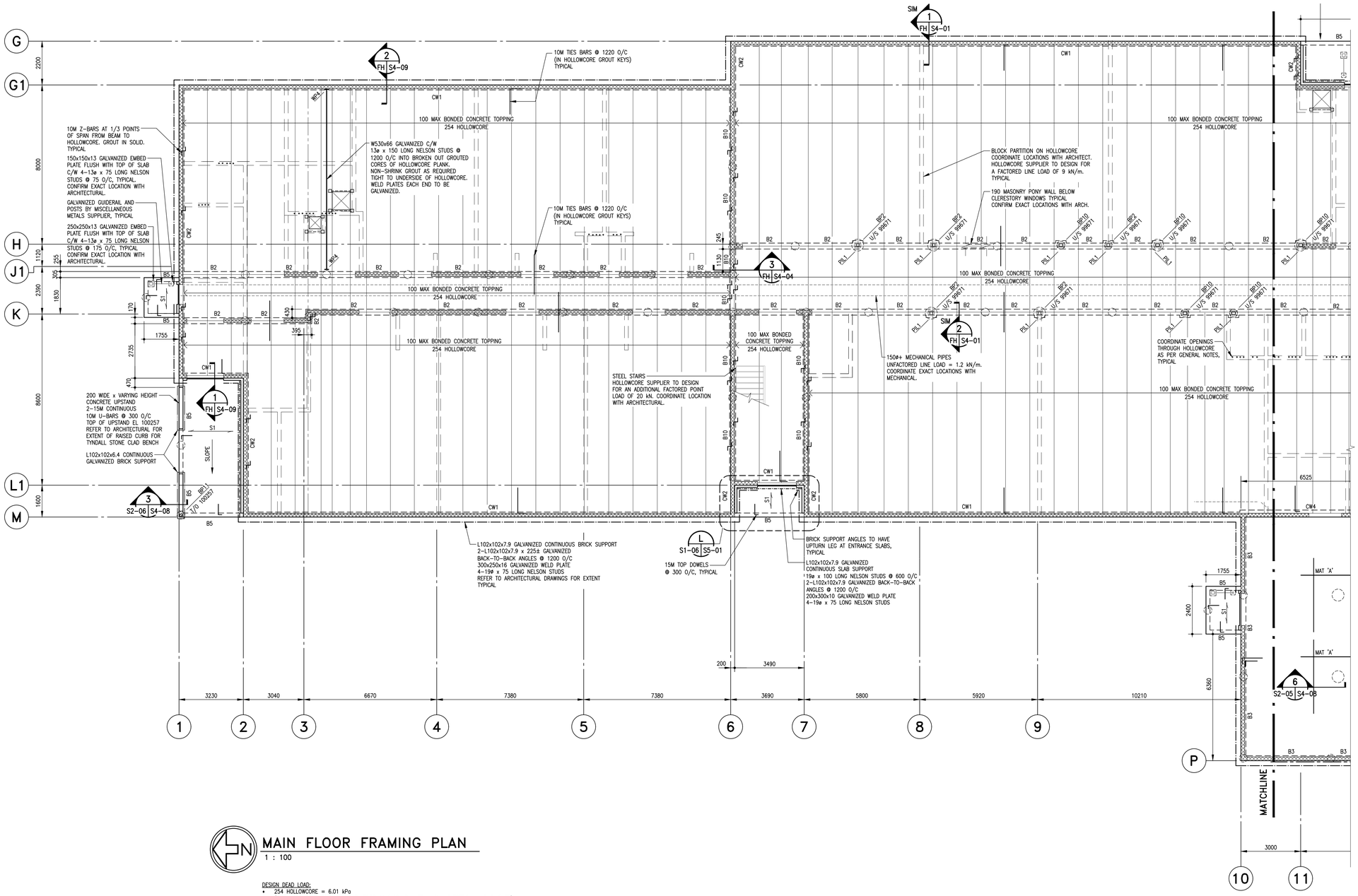


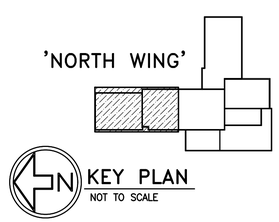
MAIN FLOOR FRAMING PLAN

1 : 100

DESIGN DEAD LOAD:
- 254 HOLLOWCORE = 6.01 kPa
  (3.35 kPa HOLLOWCORE, 2.16 kPa TOPPING, 0.50 kPa MECHANICAL, ELECTRICAL AND FINISHES)
- LIBRARY SLAB = 5.0 kPa.

DESIGN LIVE LOAD:
- REFER TO LIVE LOAD MAIN FLOOR DIAGRAM S2-04

PLAN NOTES:
- TOP OF HOLLOWCORE TO BE AT EL 99990 ALONG BEARING LINES.
- REFER TO DRAWING S1-01, S1-02 & S1-03 FOR GENERAL NOTES & DETAILS.
- REFER TO DRAWING S1-04 AND S1-05 FOR SCHEDULES.
- REFER TO DRAWING S5-01 FOR PILASTER DETAILS.
- REFER TO DRAWING S2-04 FOR MAIN FLOOR LIVE LOAD DIAGRAM.
- CONCRETE TOPPING TO BE REINFORCED WITH 10M @ 450 O/C EACH WAY TOP, TYPICAL.



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N.R. MOSCOVITCH
Member 33947
2023-03-24
REGISTERED PROFESSIONAL ENGINEER

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Winnipeg, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
Parkland Drive, Steinbach, MB.

drawing information

MAIN FLOOR FRAMING PLAN
NORTH WING

drawn by: CJM
approved by: NM

scale: AS NOTED
date issued: 2023.03.24
proj. #: 2021.49
rev. #: R-0

S2
06

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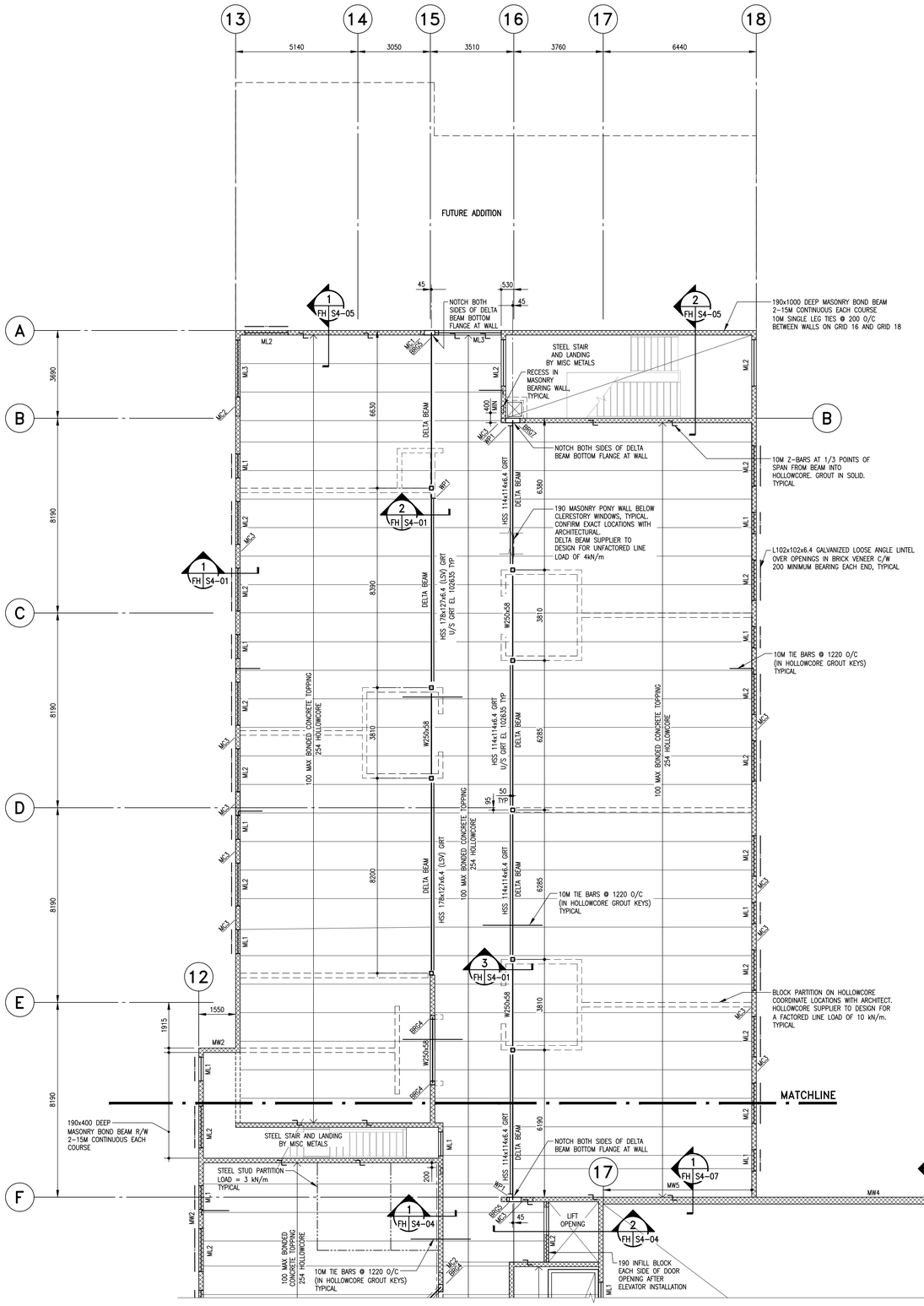
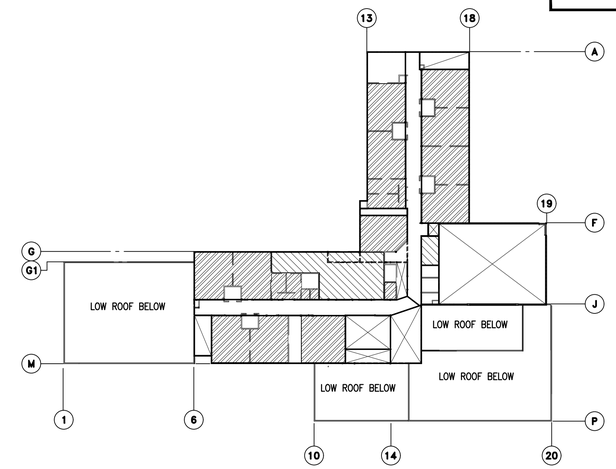


REFER TO S2-08 FOR CONTINUATION



SECOND FLOOR LIVE LOAD DIAGRAM

NTS

DESIGN LIVE LOAD:

TYPICAL	= 4.8 kPa
CLASSROOMS, WASHROOMS, OFFICES	= 2.4 kPa
MECHANICAL ROOM (INCLUDING WEIGHT OF HOUSE KEEPING PADS)	= 7.2 kPa

2ND FLOOR FRAMING PLAN

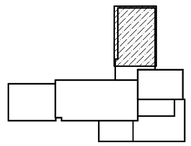
1 : 100

DESIGN DEAD LOAD:
- 203 HOLLOWCORE = 5.71 kPa
  (3.05 kPa HOLLOWCORE, 2.16 kPa TOPPING, 0.50 kPa MECHANICAL, ELECTRICAL AND FINISHES)
- 254 HOLLOWCORE = 6.01 kPa
  (3.35 kPa HOLLOWCORE, 2.16 kPa TOPPING, 0.50 kPa MECHANICAL, ELECTRICAL AND FINISHES)
- 305 HOLLOWCORE = 6.64 kPa
  (3.98 kPa HOLLOWCORE, 2.16 kPa TOPPING, 0.5 kPa MECHANICAL, ELECTRICAL AND FINISHES)

DESIGN LIVE LOAD:
- REFER TO LIVE LOAD MAIN FLOOR DIAGRAM S2-07

PLAN NOTES:
- REFER TO DRAWING S1-01, S1-02 & S1-03 FOR GENERAL NOTES & DETAILS.
- REFER TO DRAWING S1-04 AND S1-05 FOR SCHEDULES.
- REFER TO DRAWING S2-07 FOR SECOND FLOOR LIVE LOAD DIAGRAM.
- ALL MASONRY BEARING WALLS TO BE 190 WIDE 'MW3' UNLESS NOTED ON PLAN.
- REFER TO MASONRY WALL SCHEDULE FOR REINFORCING REQUIREMENTS NEXT TO OPENINGS, AT ENDS OF WALL & AT T-INTERSECTIONS.
- ALL STEEL STUD FRAMING TO BE DESIGNED & DETAILED IN SHOP DRAWINGS BY AN ENGINEER REGISTERED IN MANITOBA.
- 10 WEB STIFFENERS AT ENDS OF ALL STEEL BEAMS BEARING ON BEARING PLATES IN BLOCK WALLS.
- MINIMUM 150 BEARING OF W AND DELTA BEAMS ON MASONRY WALL.
- BEARING PLATES AND WELD PLATED AT ENDS OF GALVANIZED MEMBERS TO BE GALVANIZED.
- CONCRETE TOPPING TO BE REINFORCED WITH 10M @ 450 O/C EACH WAY TOP, TYPICAL.
- TOP OF STEEL BEARING HOLLOWCORE ELEVATION EL = 103801 UNLESS NOTED OTHERWISE.

'EAST WING'



KEY PLAN
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PROVINCE OF MANITOBA N.R. MOSCOVITCH Member 33947 2023.03.24 REGISTERED PROFESSIONAL ENGINEER

project information

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Steinbach, MB
Canada

client

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5 Chrysler Gate
Winnipeg, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
Parkland Drive, Steinbach, MB.

drawing information

SECOND FLOOR & LOW ROOF FRAMING PLAN EAST WING

drawn by: **CJM**
approved by: **NM**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

S2 07

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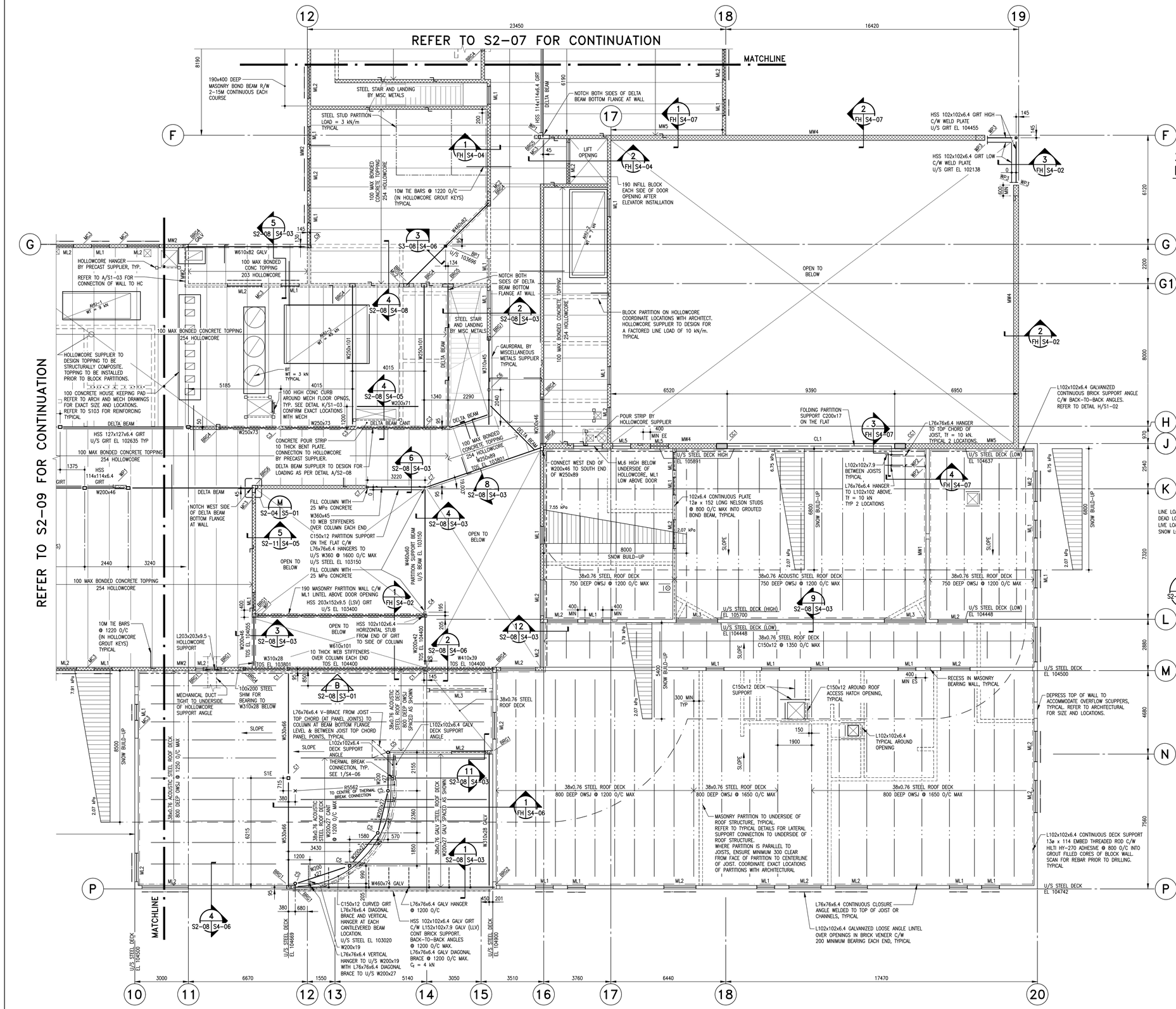

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CONSULTING STRUCTURAL ENGINEERS

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No. 235

2ND FLOOR/LOW ROOF FRAMING PLAN

1 : 100

DESIGN DEAD LOAD:
- 203 HOLLOWCORE = 5.71 kPa
  (3.05 kPa HOLLOWCORE, 2.16 kPa TOPPING, 0.50 kPa MECHANICAL, ELECTRICAL AND FINISHES)
- 254 HOLLOWCORE = 6.01 kPa
  (3.35 kPa HOLLOWCORE, 2.16 kPa TOPPING, 0.50 kPa MECHANICAL, ELECTRICAL AND FINISHES)
- 305 HOLLOWCORE = 6.64 kPa
  (3.98 kPa HOLLOWCORE, 2.16 kPa TOPPING, 0.5 kPa MECHANICAL, ELECTRICAL AND FINISHES)

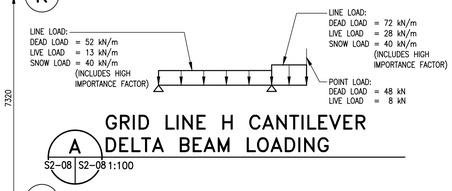
DESIGN ROOF DEAD LOAD:
- TYPICAL = 1.0 kPa
- OVER MECHANICAL ROOM = 1.5 kPa

DESIGN ROOF SNOW LOAD:
- 2.07 kPa + SNOW BUILD-UPS (INCLUDES HIGH IMPORTANCE FACTOR)

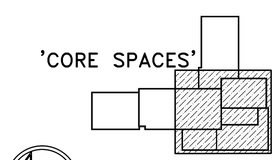
DESIGN LIVE LOAD:
- REFER TO LIVE LOAD MAIN FLOOR DIAGRAM S2-07

DESIGN WIND GROSS UPLIFT:
- 2.00 kPa AT CANOPIES (INCLUDES HIGH IMPORTANCE FACTOR)
- 1.15 kPa ELSEWHERE (INCLUDES HIGH IMPORTANCE FACTOR)

PLAN NOTES:
- REFER TO DRAWING S1-01, S1-02 & S1-03 FOR GENERAL NOTES & DETAILS.
- REFER TO DRAWING S1-04 AND S1-05 FOR SCHEDULES.
- REFER TO DRAWING S2-07 FOR SECOND FLOOR LIVE LOAD DIAGRAM.
- ALL MASONRY BEARING WALLS TO BE 190 WIDE 'MW3' UNLESS NOTED ON PLAN.
- REFER TO MASONRY WALL SCHEDULE FOR REINFORCING REQUIREMENTS NEXT TO OPENINGS, AT ENDS OF WALL & AT T-INTERSECTIONS.
- ALL STEEL STUD FRAMING TO BE DESIGNED & DETAILED IN SHOP DRAWINGS BY AN ENGINEER REGISTERED IN MANITOBA.
- SOLID BLOCKING IN HIGH DECK FLUTES BELOW EDGE OF ROOF TOP UNITS.
- CONFIRM EXACT LOCATION OF ROOF TOP UNITS WITH MECHANICAL.
- L76x76x6.4 VERTICALS @ 1800 O/C TO TOP OF PERIMETER BEAMS WHERE TOP OF PARAPET IS GREATER THAN 650 ABOVE U/S OF DECK. REFER TO ARCHITECTURAL FOR LOCATION OF TYPICAL DETAIL ON S1-03.
- JOIST BEARING ELEVATIONS TO BE BASED ON 100 DEEP JOIST SEATS TYPICAL.
- JOIST BRIDGING DESIGNED & SUPPLIED BY JOIST SUPPLIER.
- JOIST/CHANNEL AT 190 MASONRY WALL TO BE COMPLETE WITH 150x200x16 BEARING PLATE WITH 2-13ø x 150 LONG NELSON STUDS @ 100 O/C INTO GROUTED BOND BEAM. FOR 290 WALL/LINTEL, USE 250x200x16 BEARING PLATE.
- 10 WEB STIFFENERS AT ENDS OF ALL STEEL BEAMS BEARING ON BEARING PLATES IN BLOCK WALLS.
- MINIMUM 150 BEARING OF W AND DELTA BEAMS ON MASONRY WALL.
- BEARING PLATES AND WELD PLATED AT ENDS OF GALVANIZED MEMBERS TO BE GALVANIZED.
- CONCRETE TOPPING TO BE REINFORCED WITH 10M @ 450 O/C EACH WAY TOP, TYPICAL.
- TOP OF STEEL BEARING HOLLOWCORE ELEVATION EL = 103801 UNLESS NOTED OTHERWISE.



A S2-08 GRID LINE H CANTILEVER DELTA BEAM LOADING S2-08 1:100



KEY PLAN
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issue / rev.

#	date	issue notes
0	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

PROVINCE OF MANITOBA
N.R. MOSCOVITCH
Member
33947
2023.03.24
REGISTERED PROFESSIONAL ENGINEER

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Winnipeg, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
Parkland Drive, Steinbach, MB.

drawing information

SECOND FLOOR & LOW ROOF FRAMING PLAN CORE SPACES

drawn by: CJM
approved by: NM

scale: AS NOTED
date issued: 2023.03.24
proj. #: 2021.49
rev. #: R-0

S2 08

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ENGINEERS GEOSCIENTISTS MANITOBA
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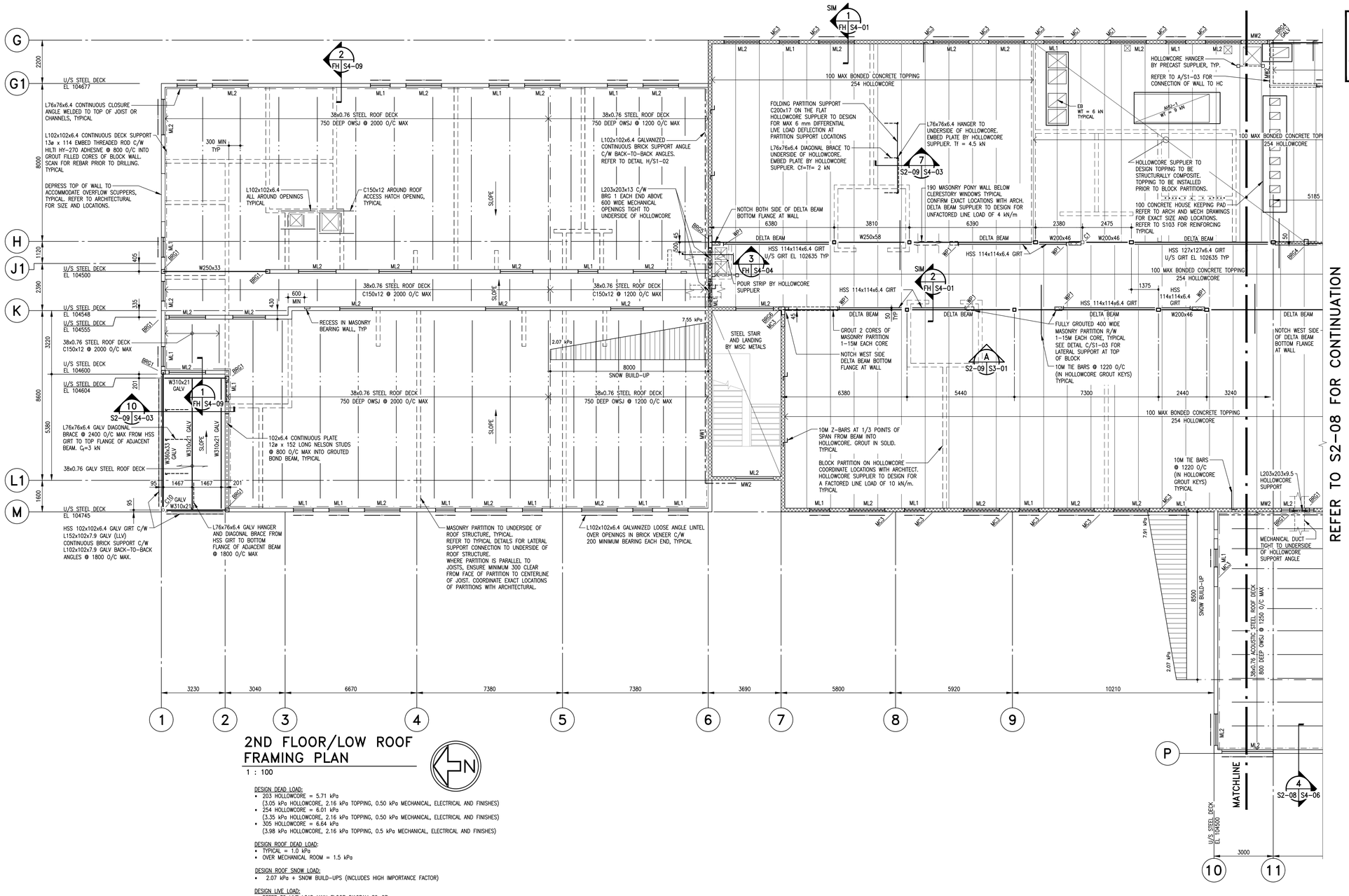

2ND FLOOR/LOW ROOF FRAMING PLAN

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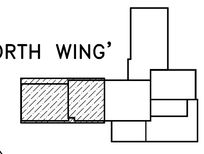

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PROVINCE OF MANITOBA N.R. MOSCOVITCH Member 33947 2023-03-24 REGISTERED PROFESSIONAL ENGINEER

project information

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Steinbach, MB
Canada

client

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5 Chrysler Gate
Winnipeg, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
Parkland Drive, Steinbach, MB.

drawing information

SECOND FLOOR & LOW ROOF FRAMING PLAN NORTH WING

drawn by: CJM
approved by: NM

scale: AS NOTED
date issued: 2023.03.24
proj. #: 2021.49
rev. #: R-0

S2 09

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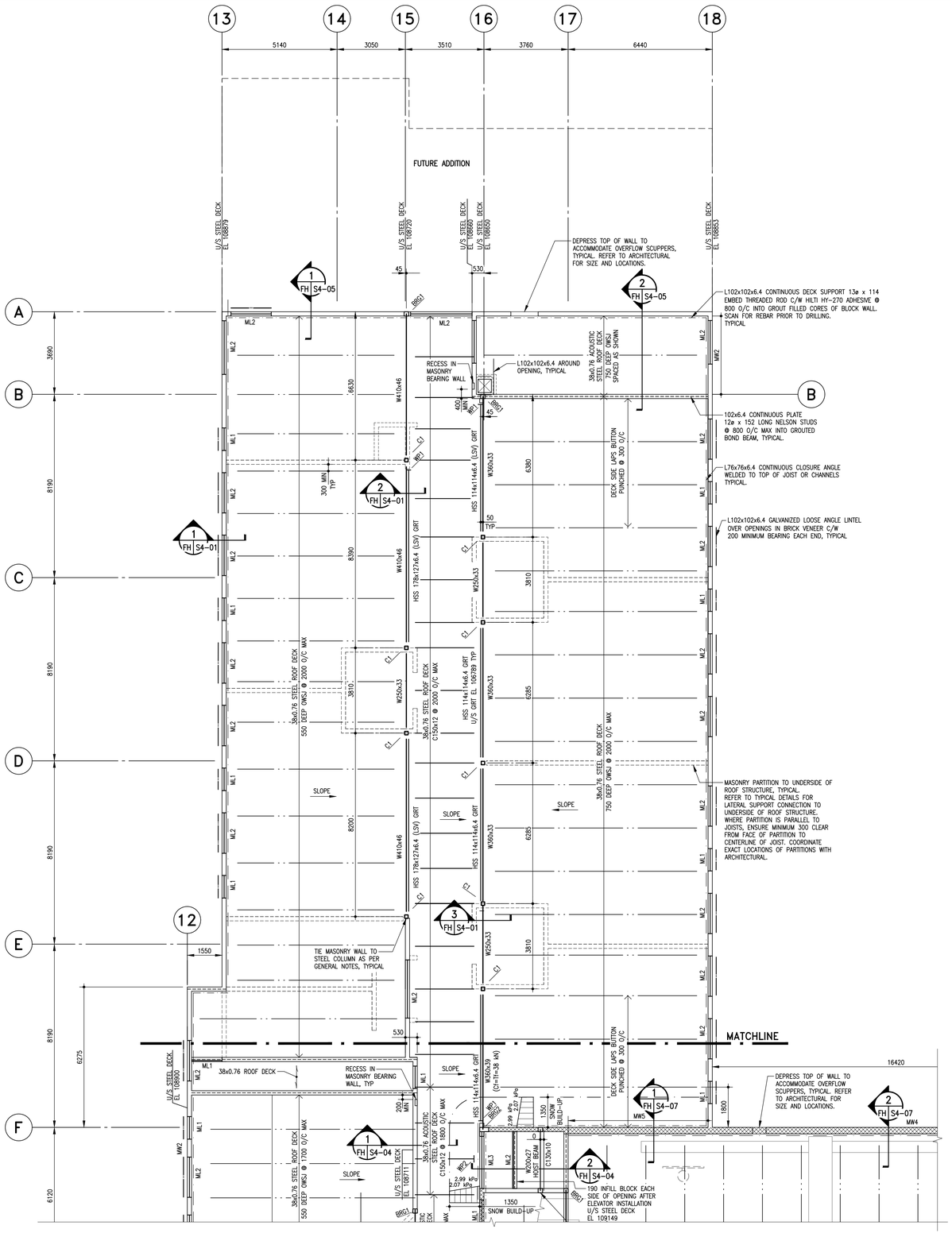

REFER TO S2-11 FOR CONTINUATION

HIGH ROOF FRAMING PLAN

1 : 100

DESIGN ROOF DEAD LOAD:
- TYPICAL = 1.0 kPa
- OVER MECHANICAL ROOM = 1.5 kPa

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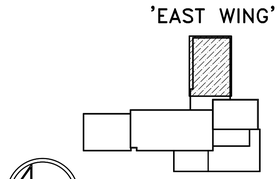

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Member
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2023.03.24
REGISTERED PROFESSIONAL ENGINEER

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client

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5 Chrysler Gate
Winnipeg, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
Parkland Drive, Steinbach, MB.

drawing information

ROOF FRAMING PLAN EAST WING

drawn by:	CJM
approved by:	NM
scale:	AS NOTED
date issued:	2023.03.24
proj. #:	2021.49
rev. #:	R-0

S2 10

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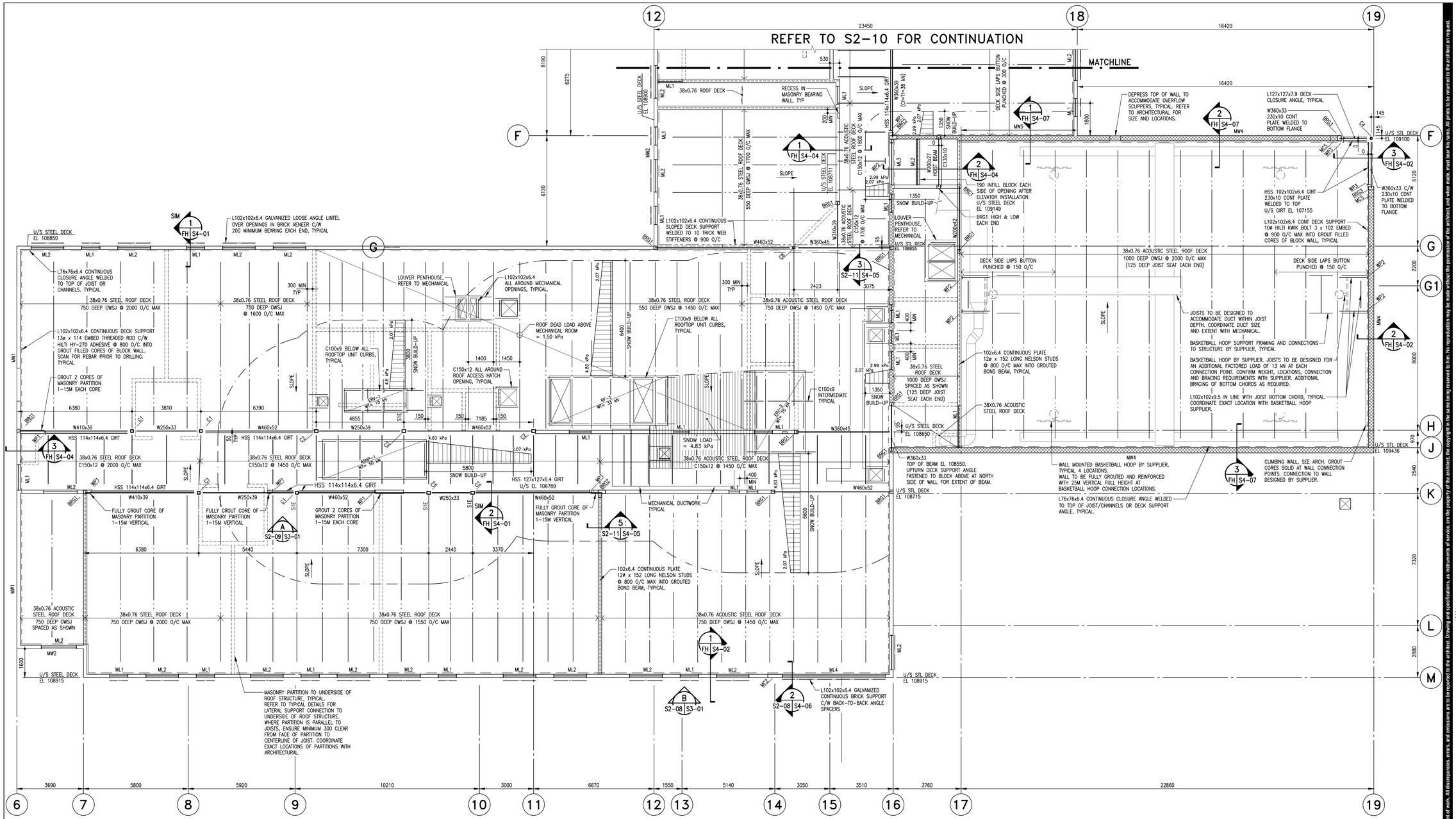

HIGH ROOF FRAMING PLAN

1 : 100

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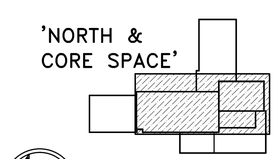

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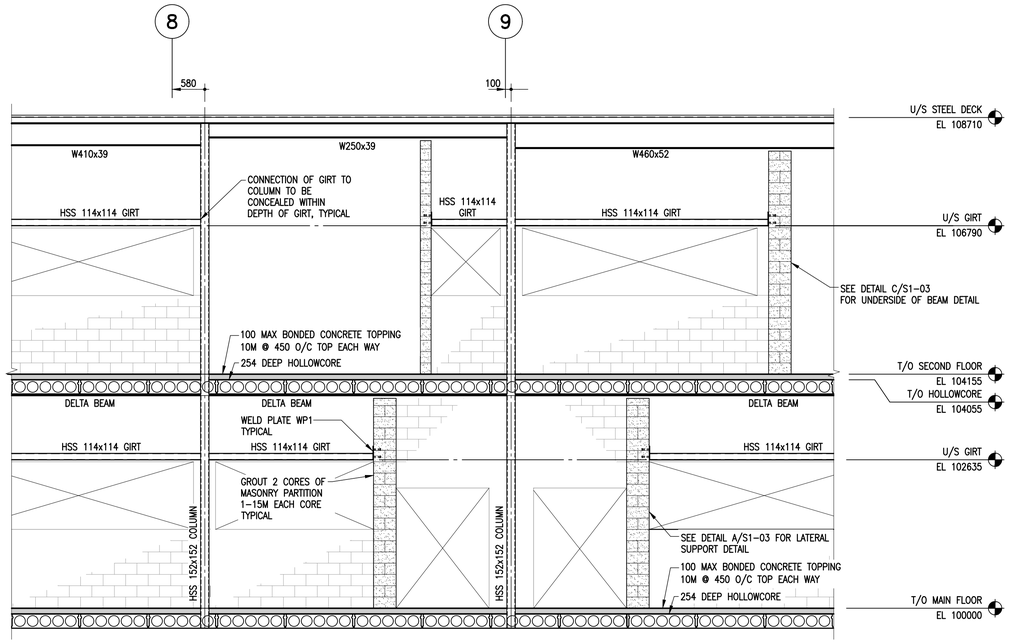
drawing information

ROOF FRAMING PLAN
NORTH WING

drawn by: CJM
approved by: NM

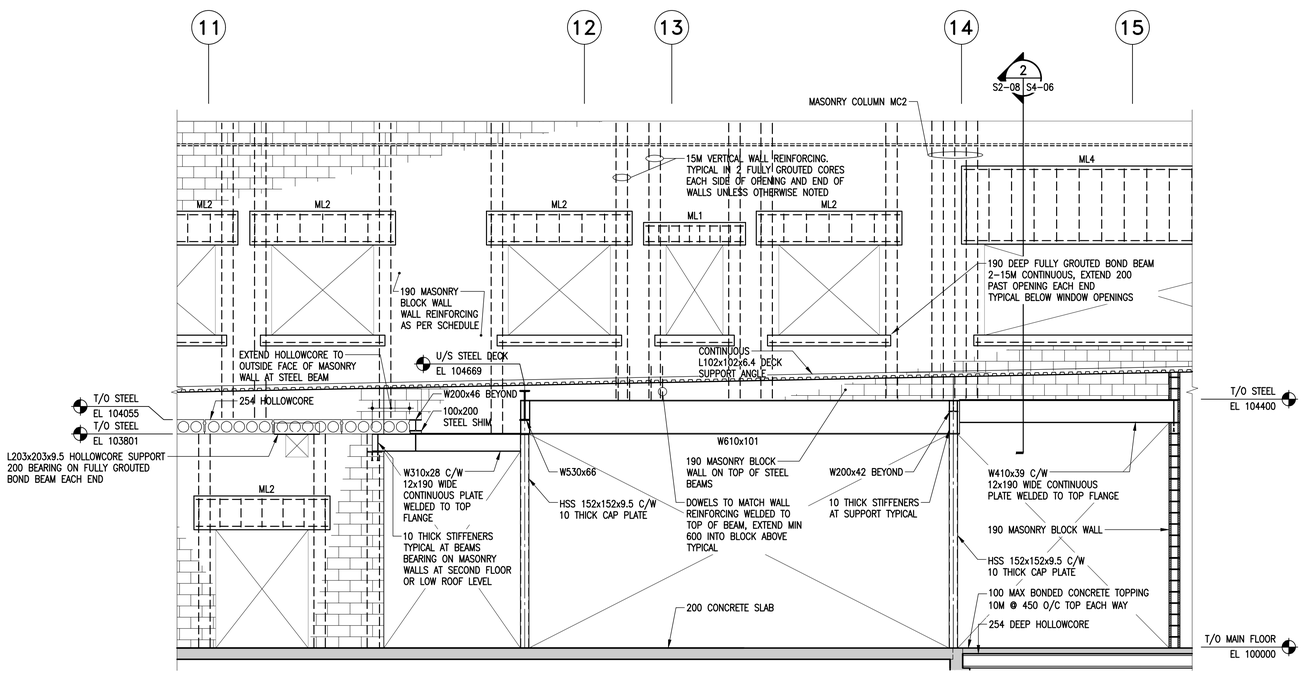
scale: AS NOTED
date issued: 2023.03.24
proj. #: 2021.49
rev. #: R-0

S2
11



A ELEVATION AT GRID K
S2-09 | S3-01 1:50

- SIMILAR AT GRIDLINES J, 15, 16 CORRIDOR WALLS



B ELEVATION AT GRID M
S2-09 | S3-01 1:50

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drawing information

ELEVATIONS

drawn by:	**CJM**
approved by:	**NM**
scale:	**AS NOTED**
date issued:	**2023.03.24**
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rev. #:	**R-0**

S3 01

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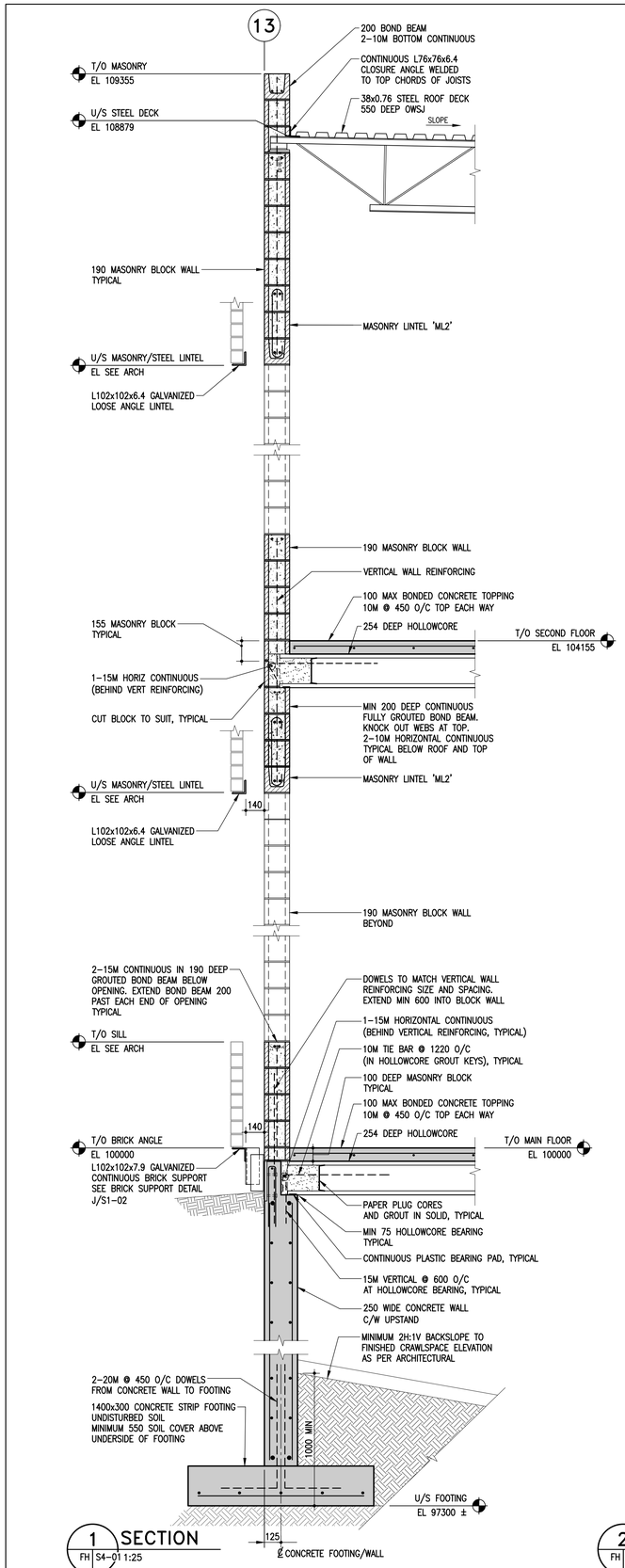
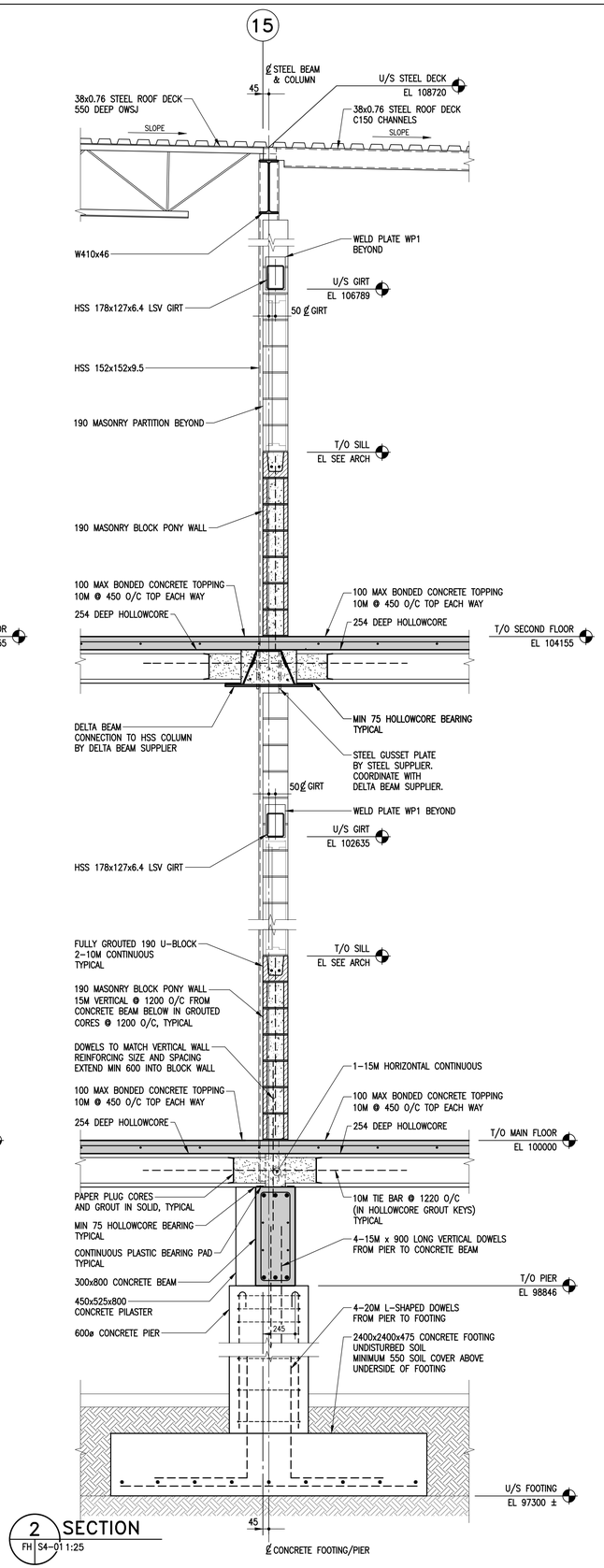


1 SECTION
FH S4-01 1:25



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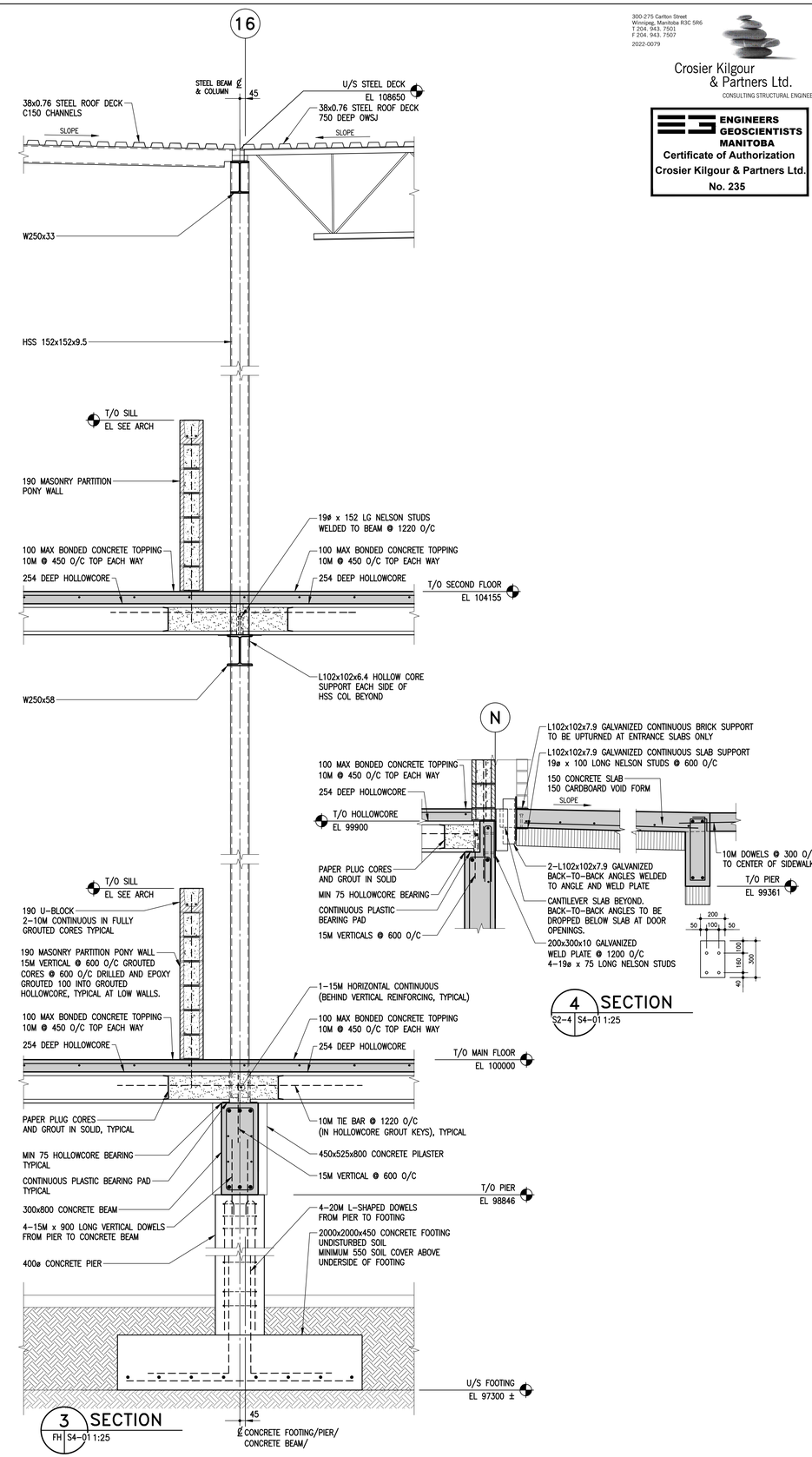

3 SECTION
FH S4-01 1:25

4 SECTION
S2-4 S4-01 1:25

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0	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

PROVINCE OF MANITOBA
N.R. MOSCOVITCH
Member
33947
2023-03-24
REGISTERED PROFESSIONAL ENGINEER

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Winnipeg, MB

drawing information

SECTIONS

drawn by: **CJM**
approved by: **NM**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

NEW WEST STEINBACH ELEMENTARY SCHOOL
Parkland Drive, Steinbach, MB.

S4 01

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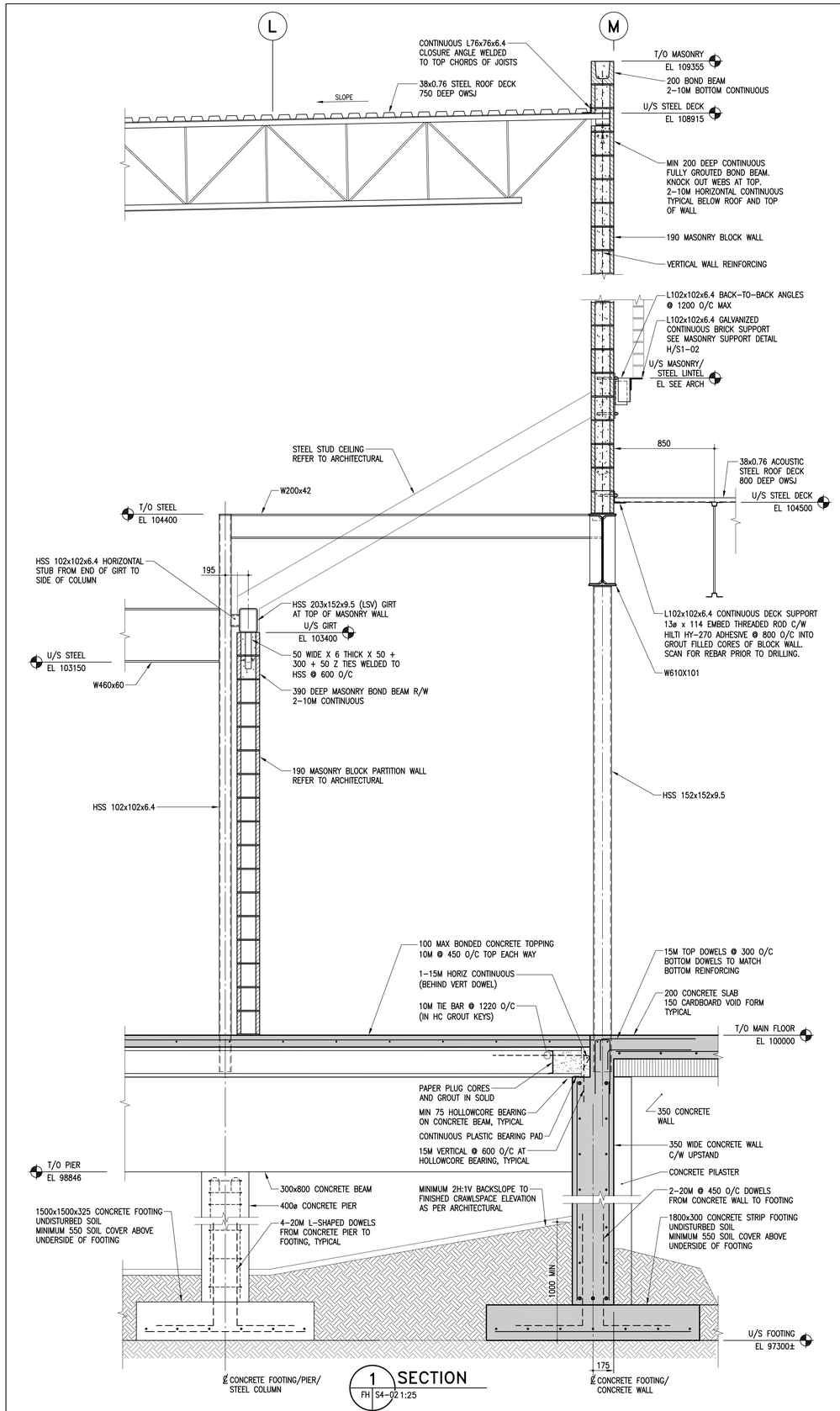

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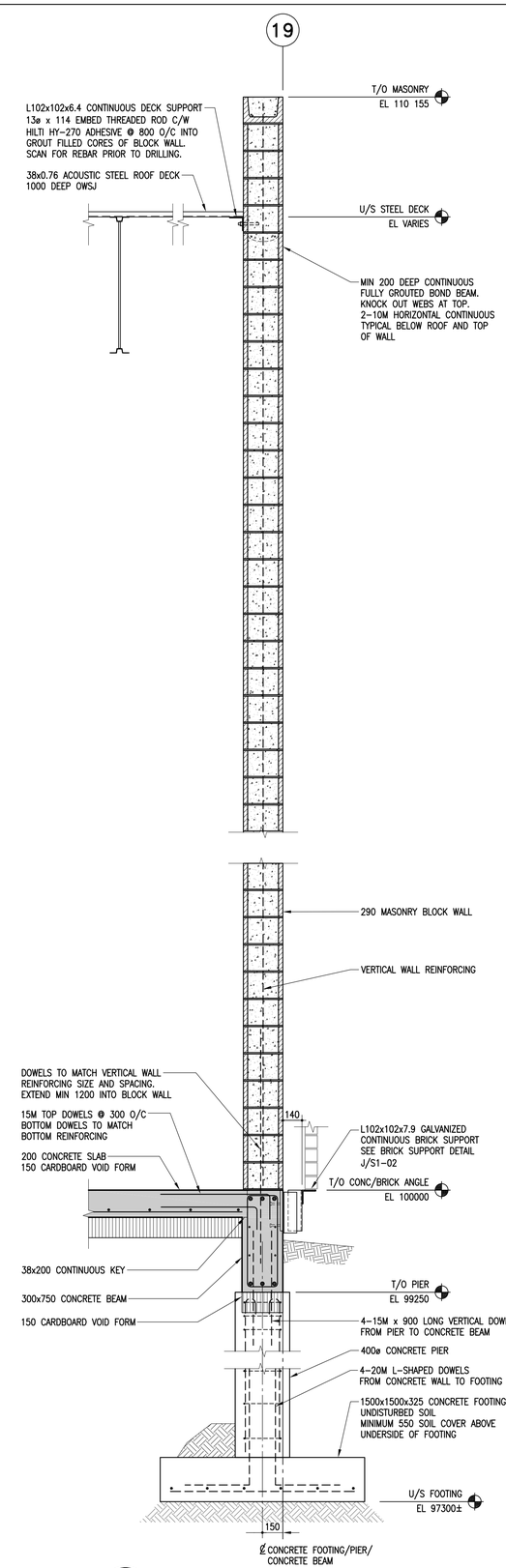

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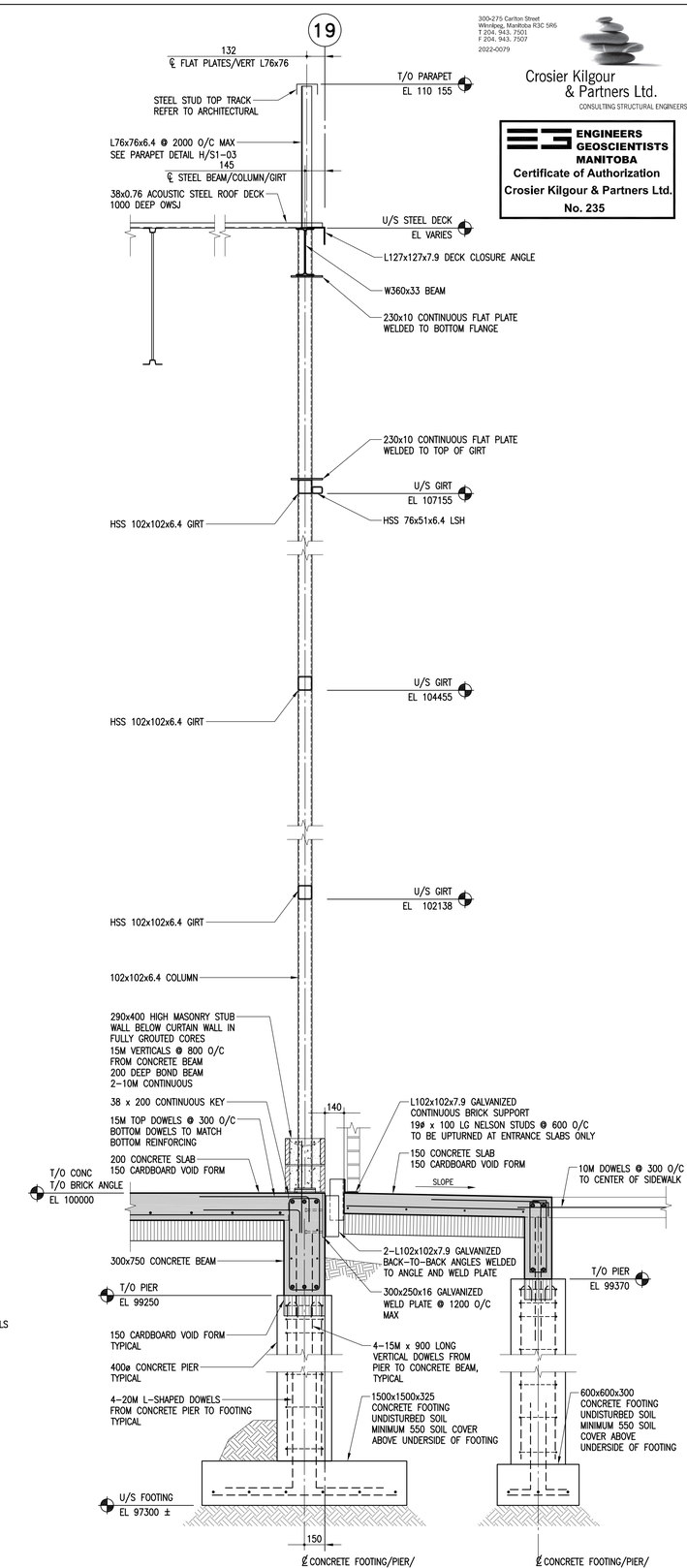

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Parkland Drive, Steinbach, MB.

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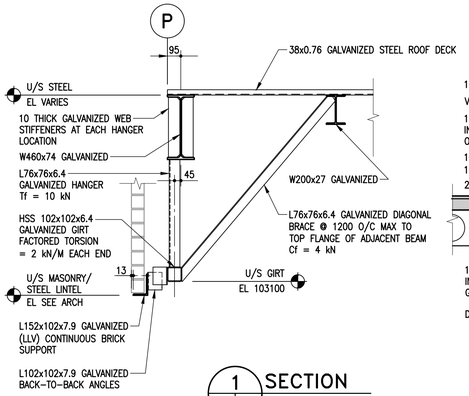

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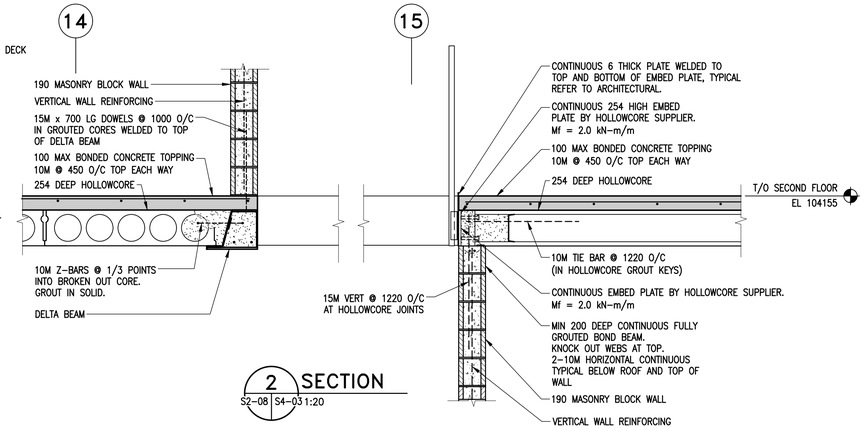

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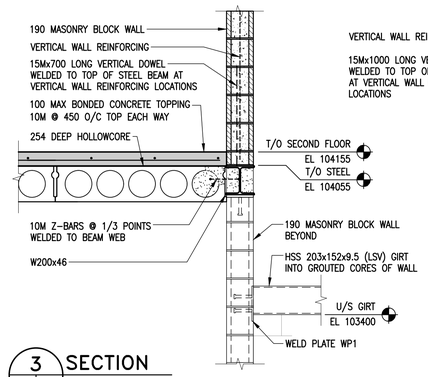

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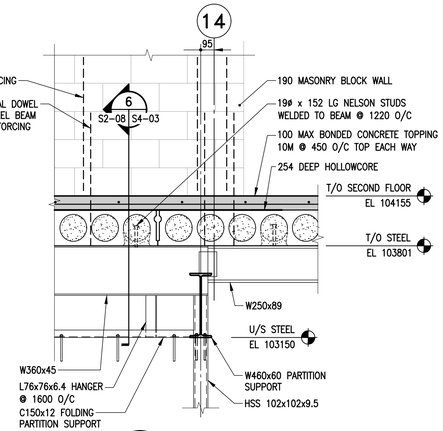

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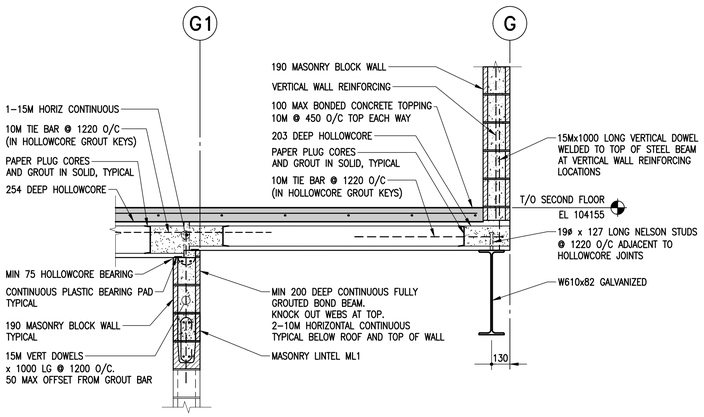

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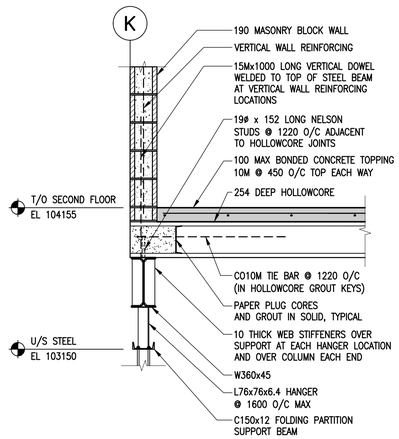

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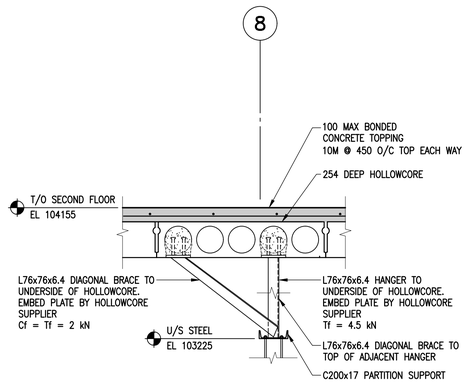

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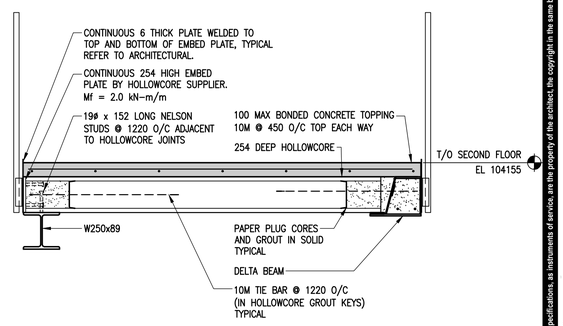

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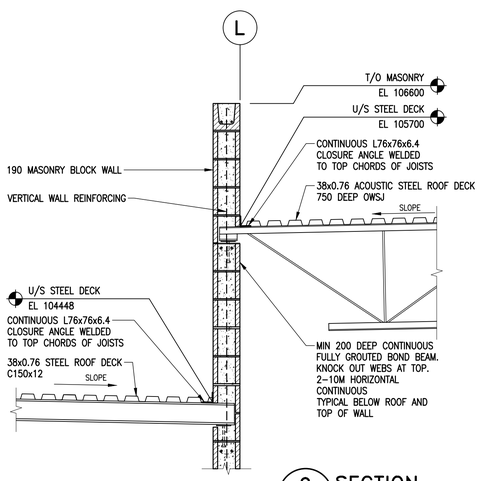

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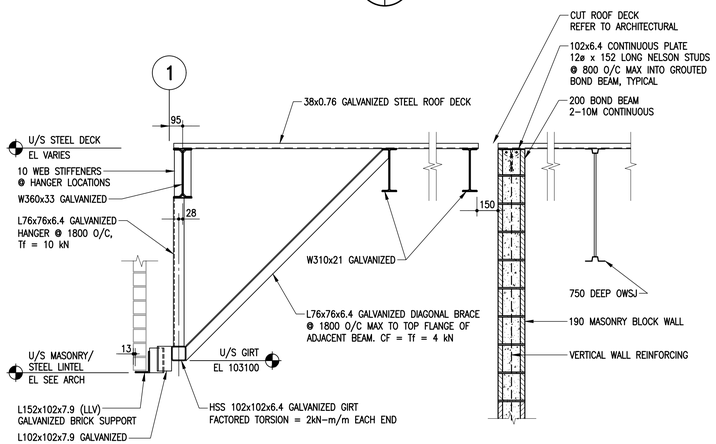

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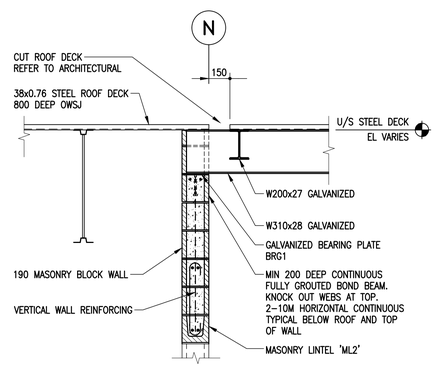

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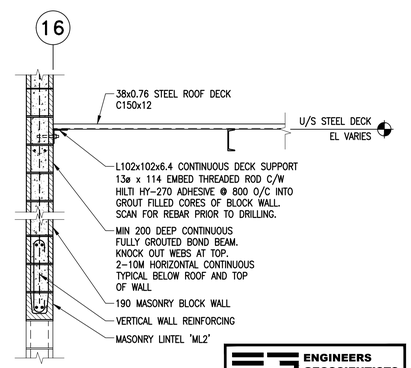

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N.R. MOSCOVITCH
Member
33947
2023-03-24
REGISTERED PROFESSIONAL ENGINEER

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Winnipeg, MB

drawing information

SECTIONS

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approved by:	NM
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proj. #:	2021.49
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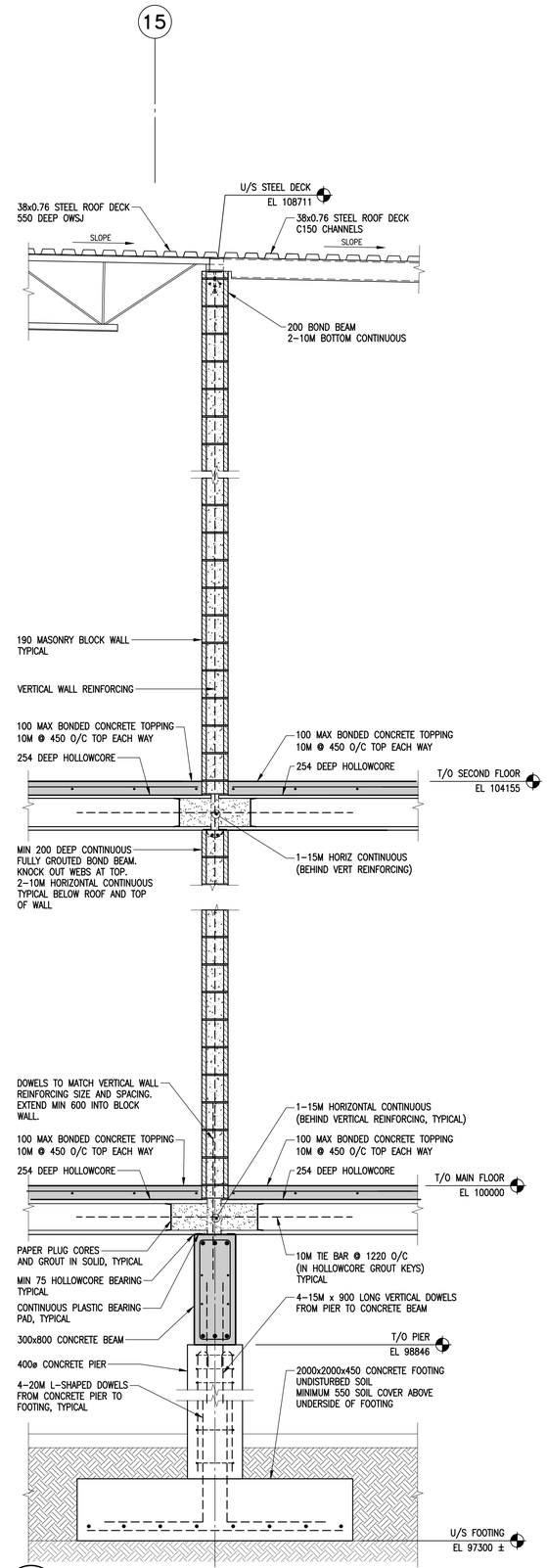
NEW WEST STEINBACH ELEMENTARY SCHOOL
Parkland Drive, Steinbach, MB.

S4 03



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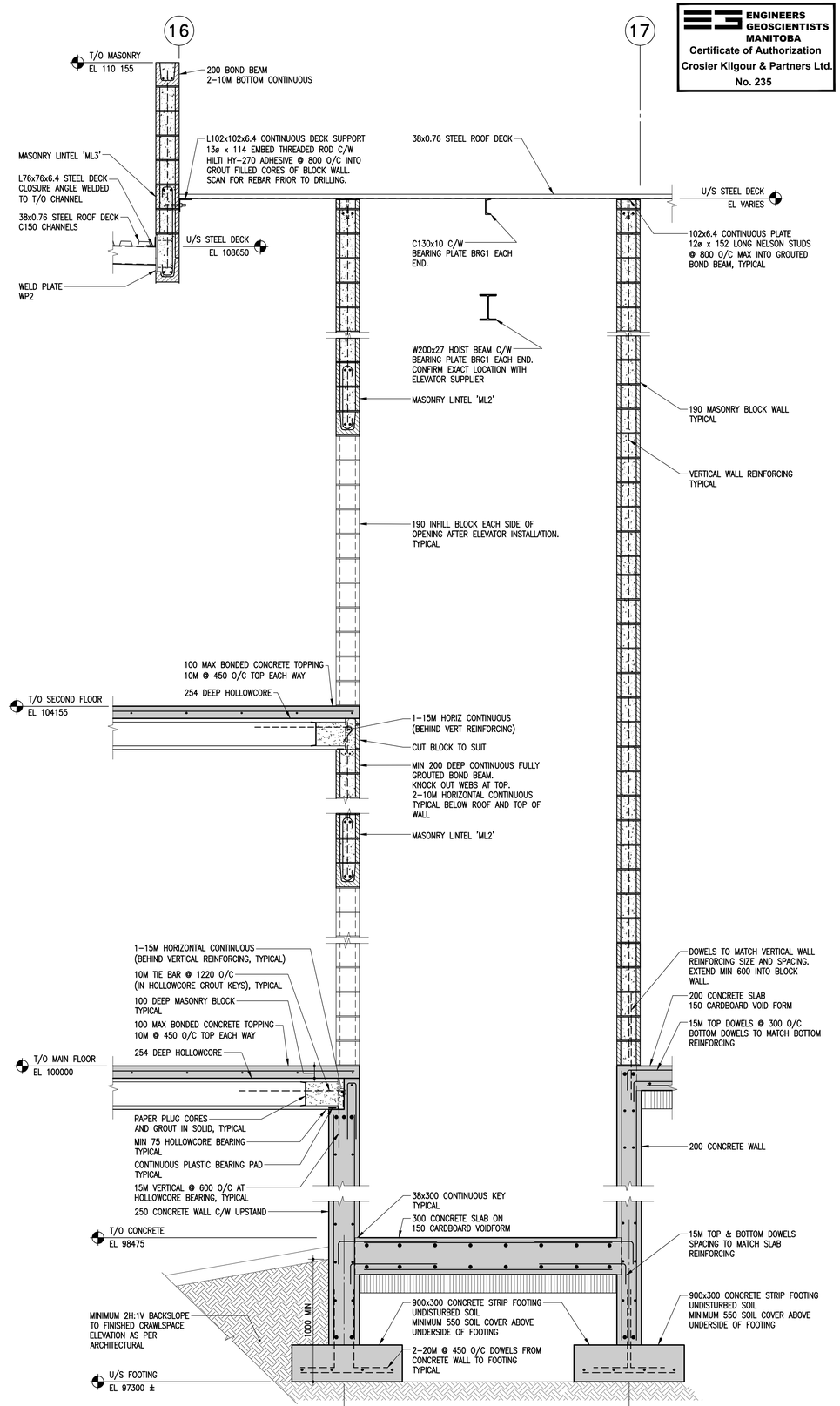

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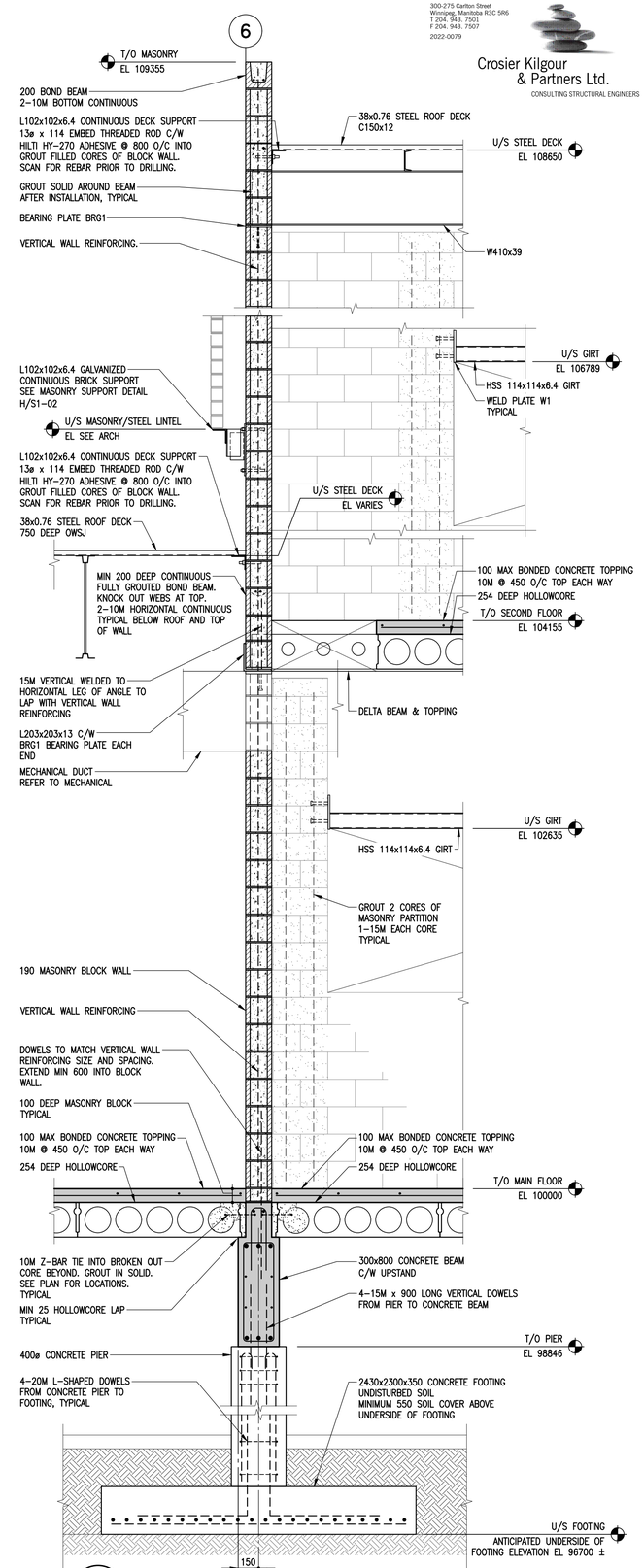

3 SECTION
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2023-03-27
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project information

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Winnipeg, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
Parkland Drive, Steinbach, MB.

drawing information

SECTIONS

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approved by:	NM
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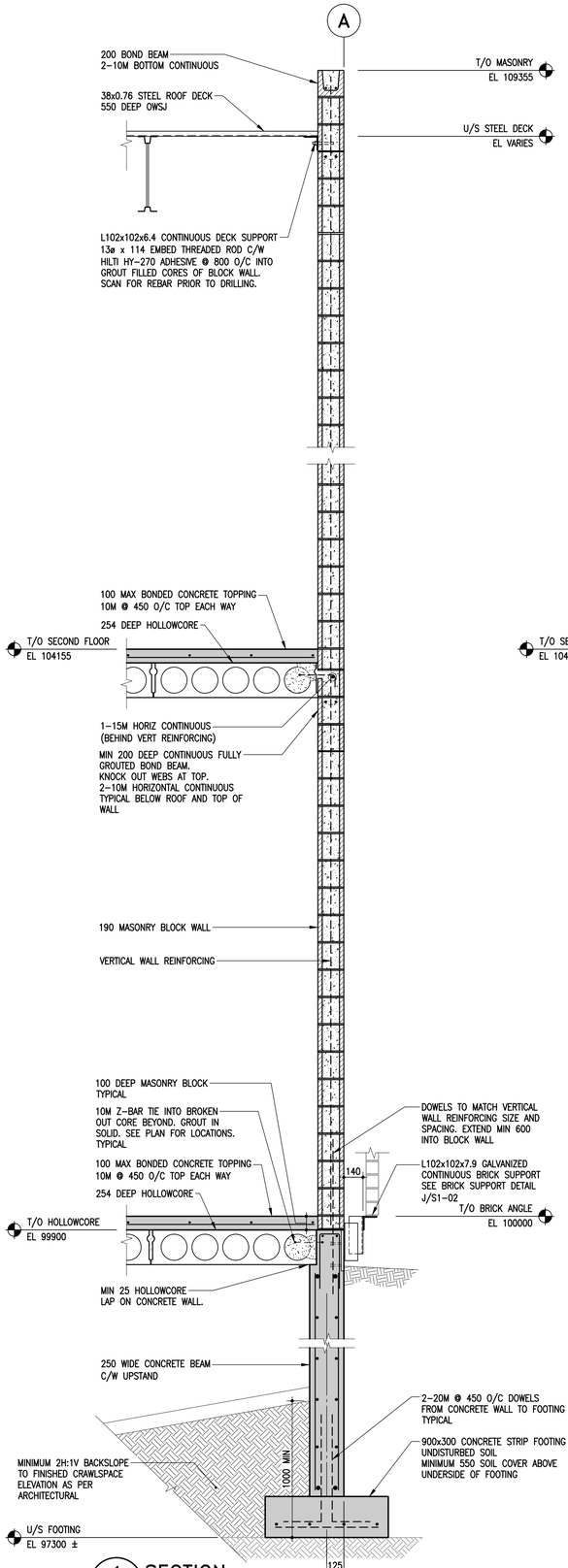

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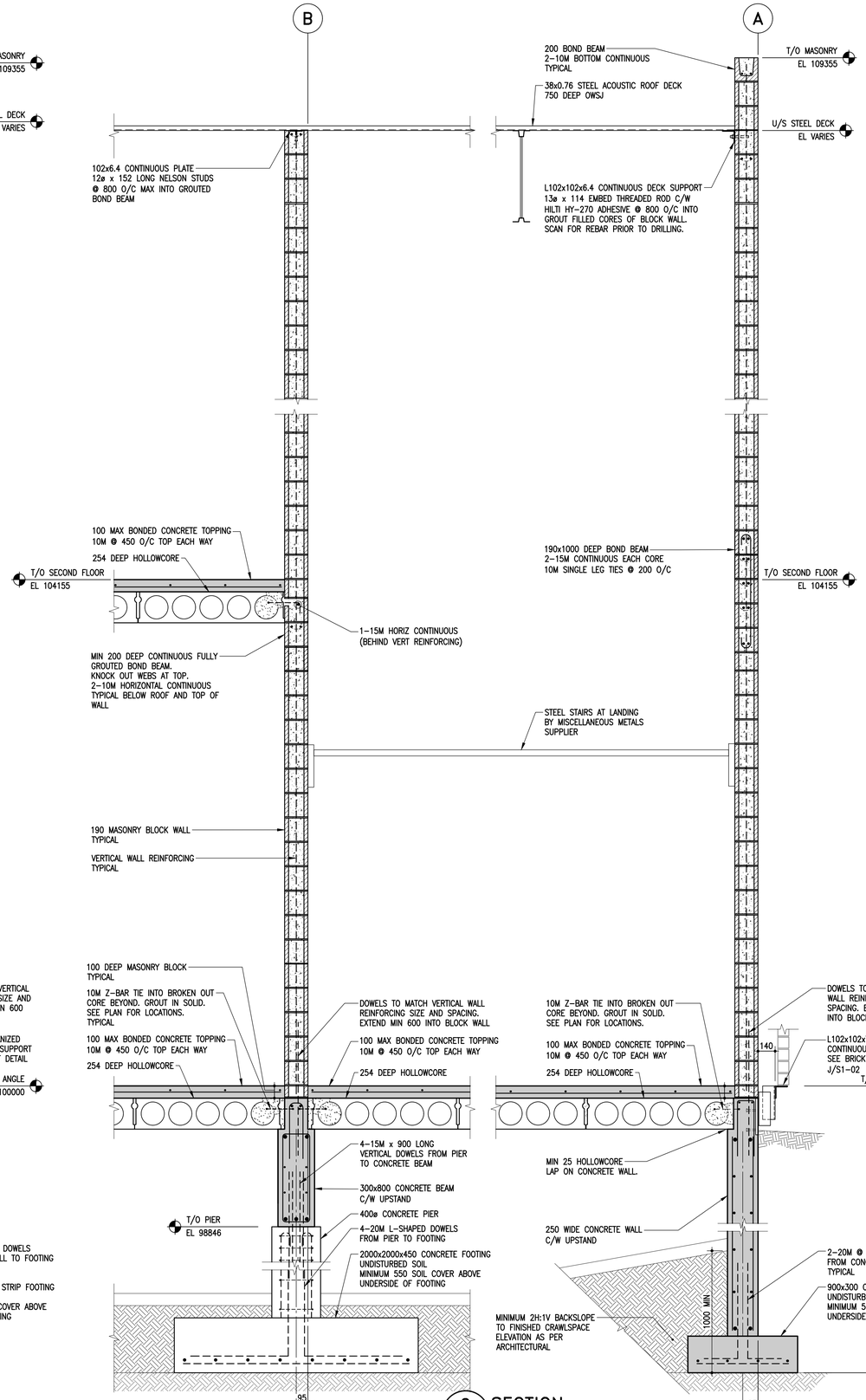

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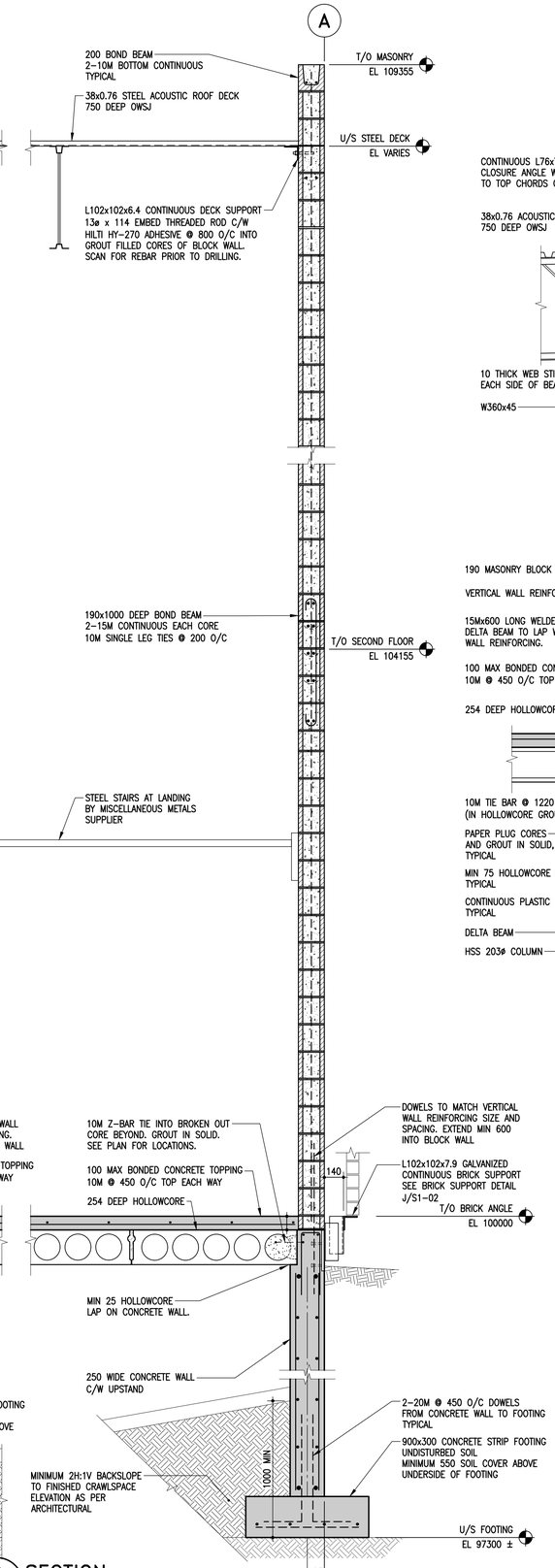

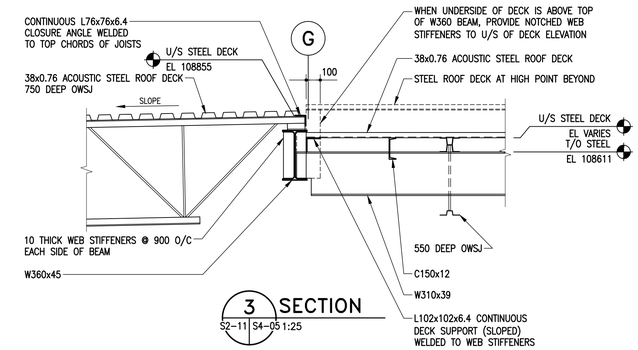

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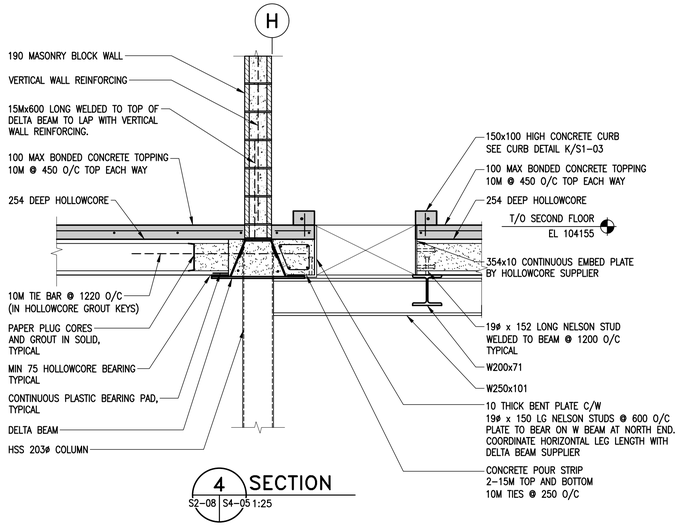

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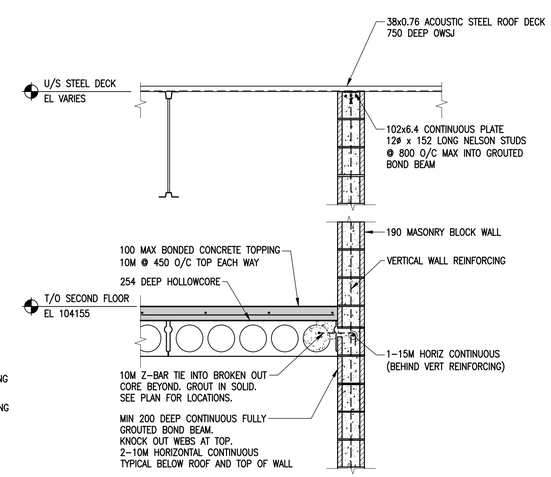

5 SECTION
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NEW WEST STEINBACH ELEMENTARY SCHOOL
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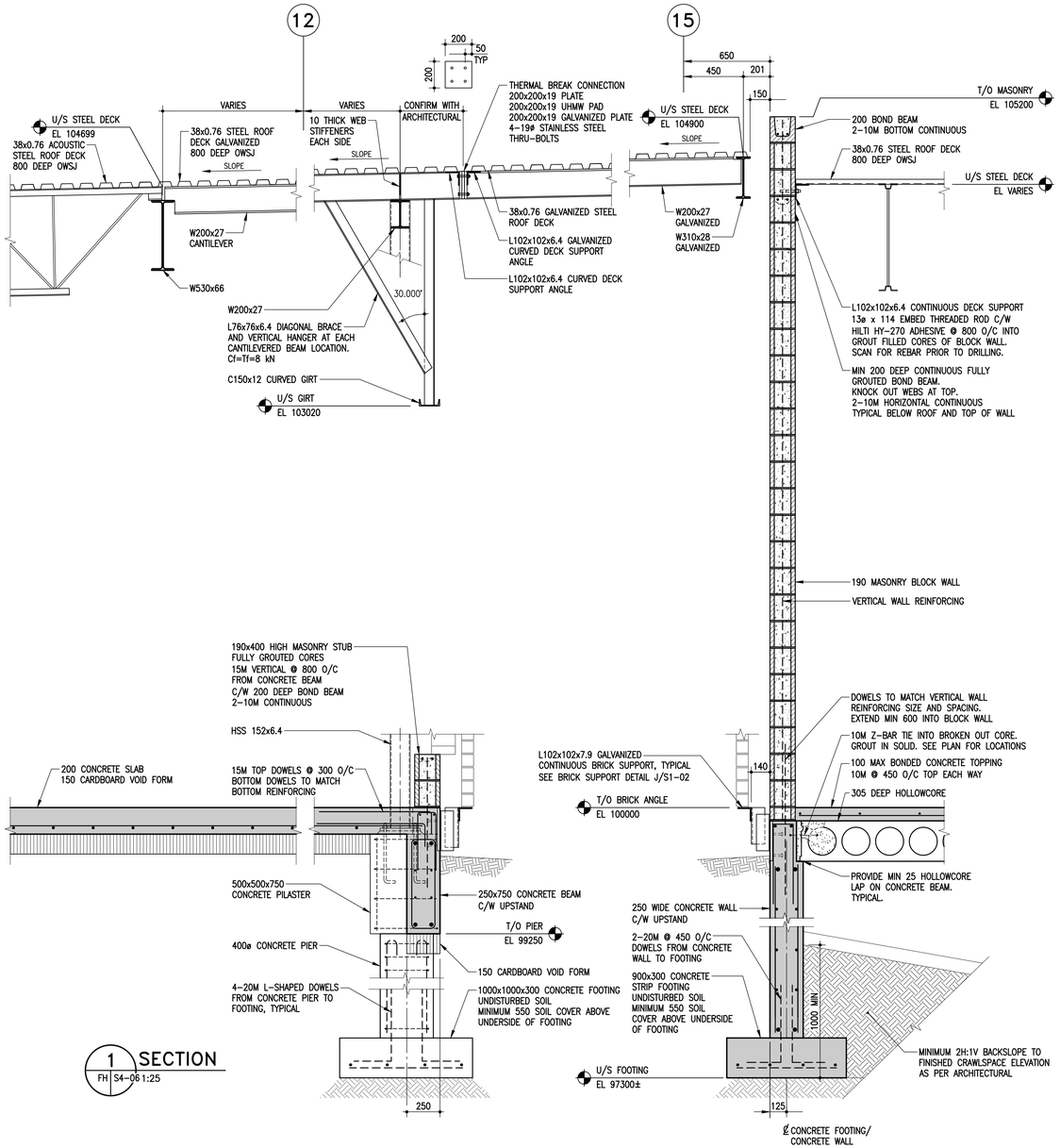

1 SECTION
FH S4-06 1:25

2 SECTION
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3 SECTION
S2-08 S4-06 1:20

4 SECTION
S2-08 S4-06 1:20

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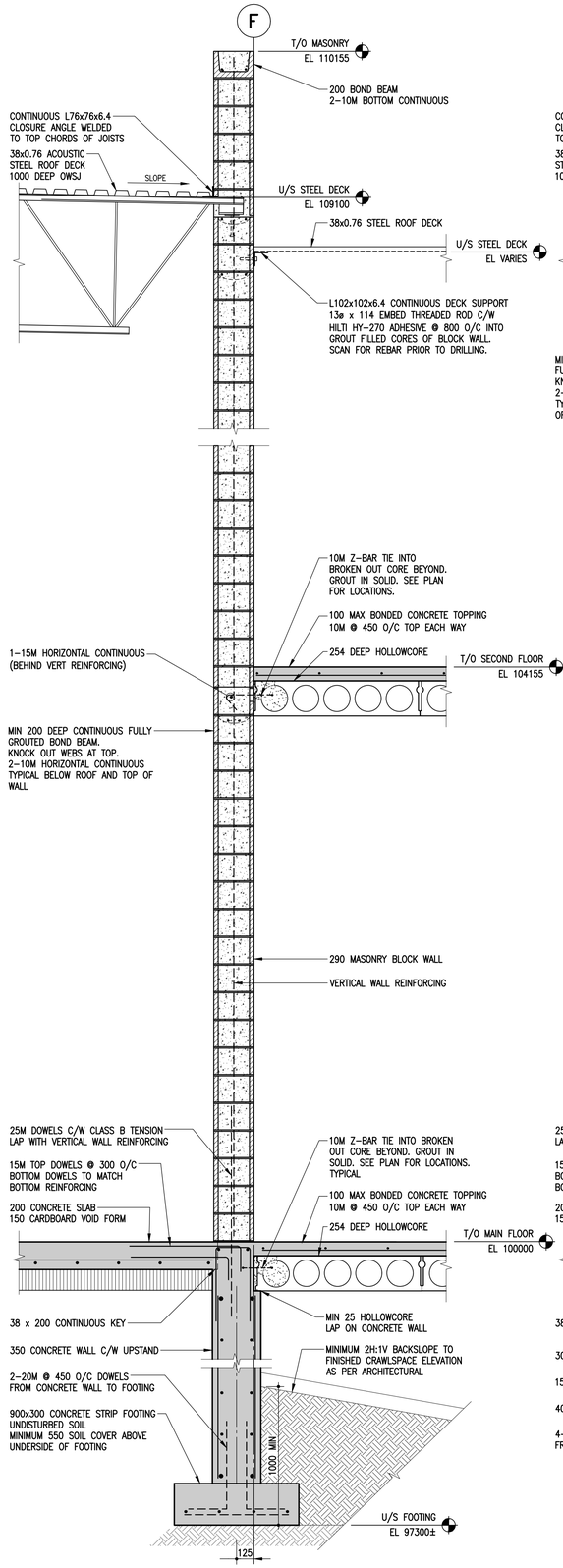

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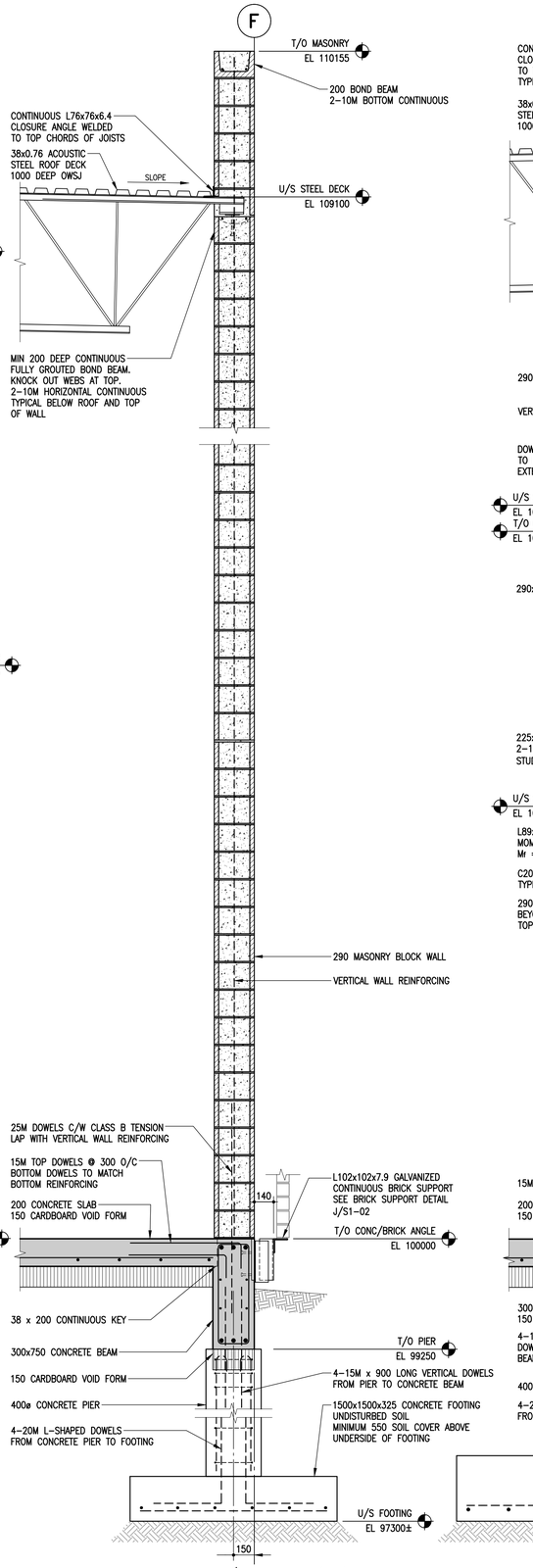

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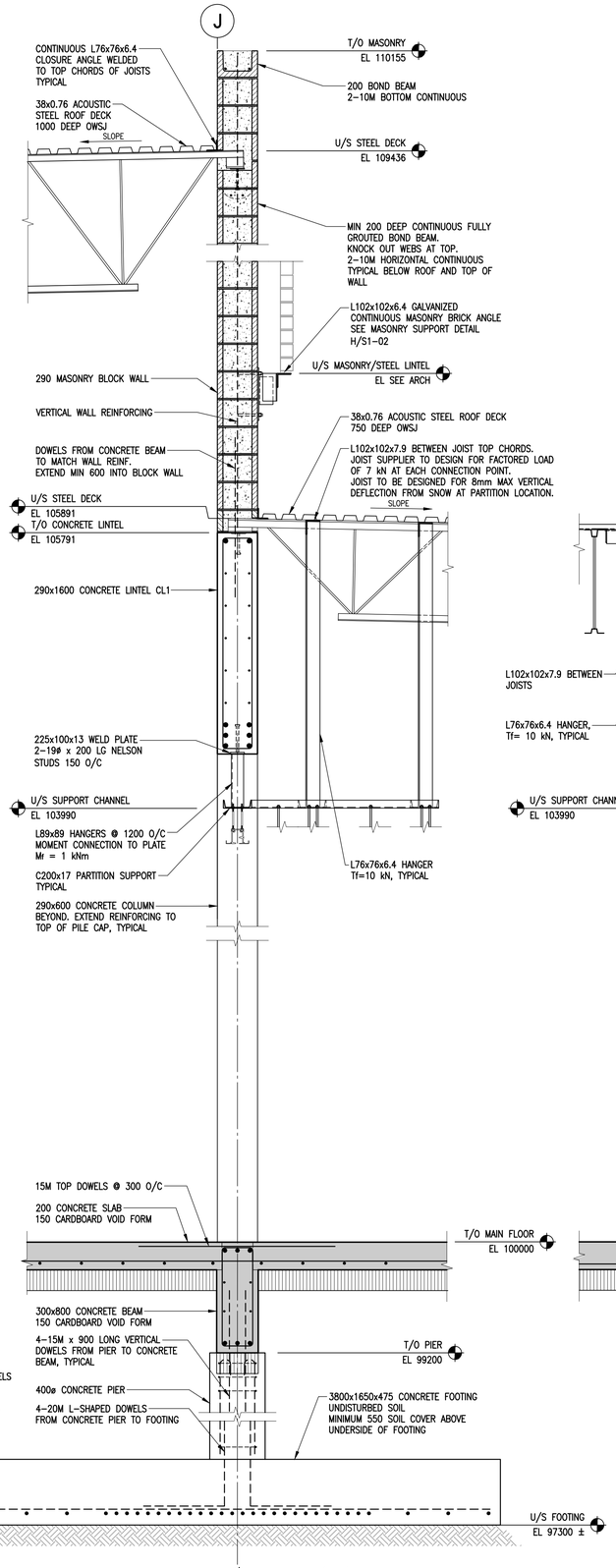

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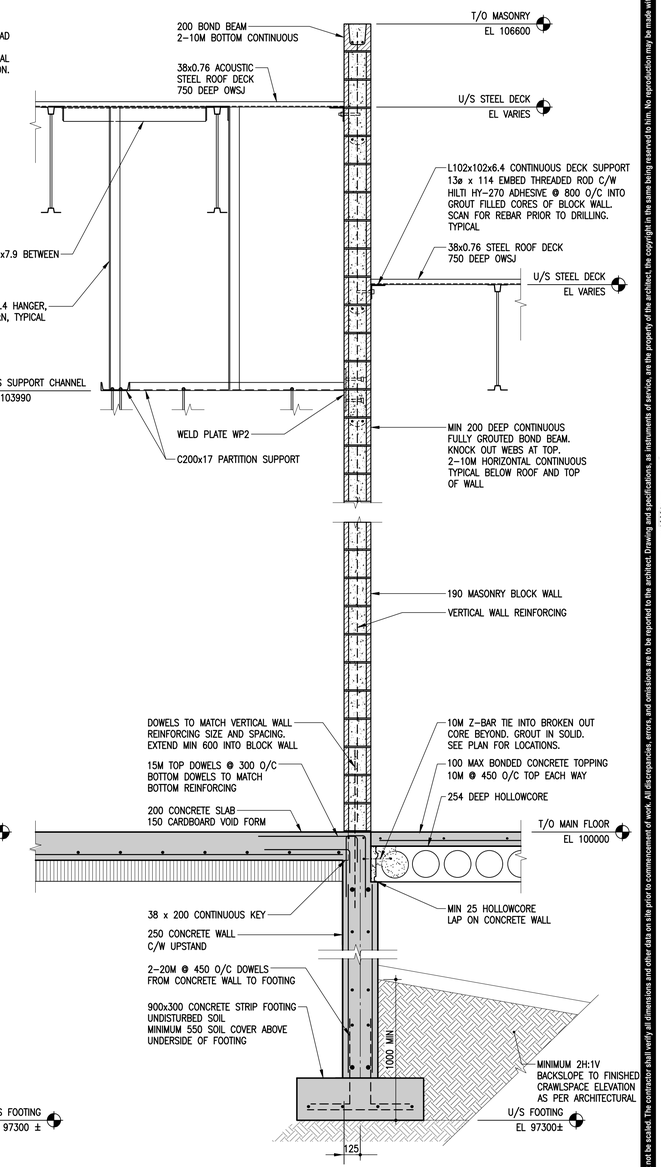

4 SECTION
FH S4-07 1:20

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0	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

PROVINCE OF MANITOBA
N.R. MOSCOVITCH
Member
33947
2023-03-24
REGISTERED PROFESSIONAL ENGINEER

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

client

Hanover School Division
5 Chrysler Gate
Winnipeg, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
Parkland Drive, Steinbach, MB.

drawing information

SECTIONS

drawn by:	CJM
approved by:	NM
scale:	AS NOTED
date issued:	2023.03.24
proj. #:	2021.49
rev. #:	R-0

S4 07

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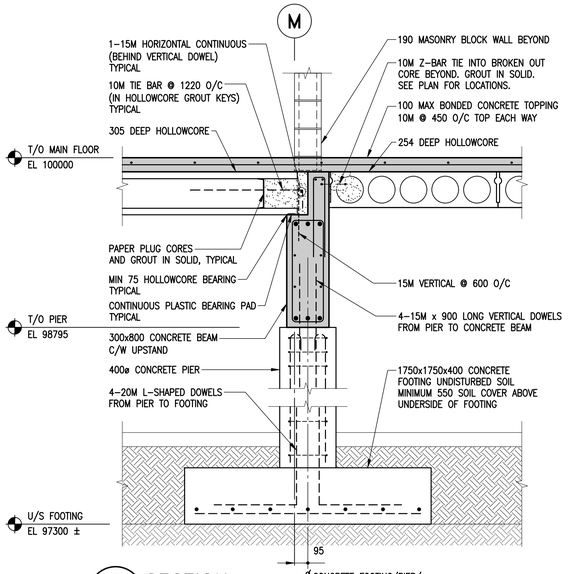
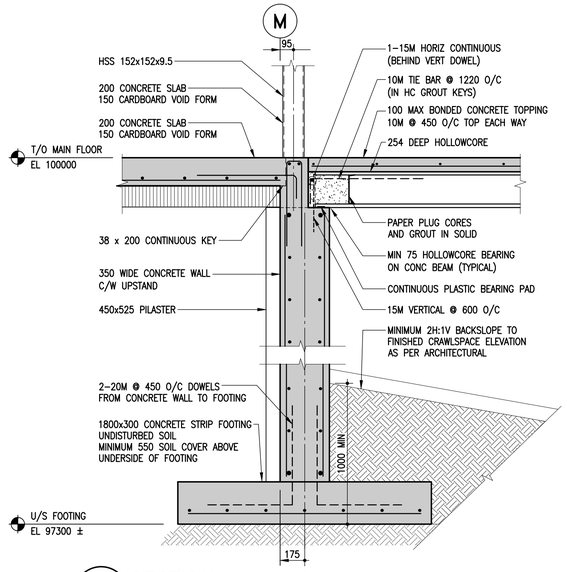


1 SECTION
S2–05 | S4–08 1:25



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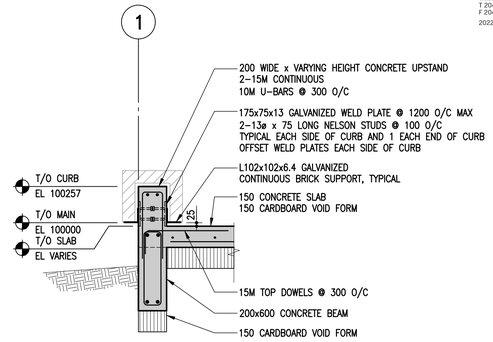

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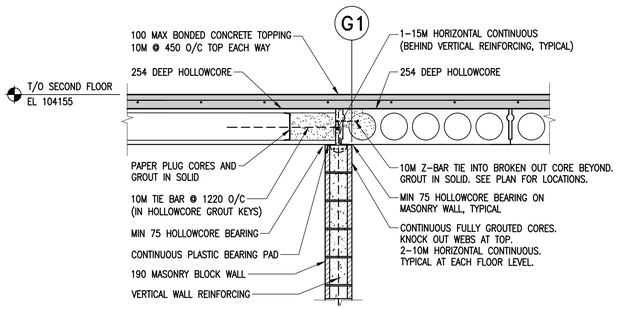

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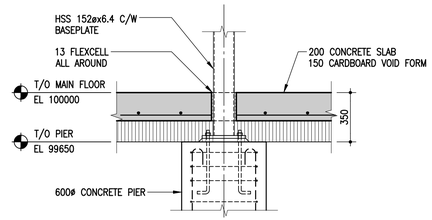

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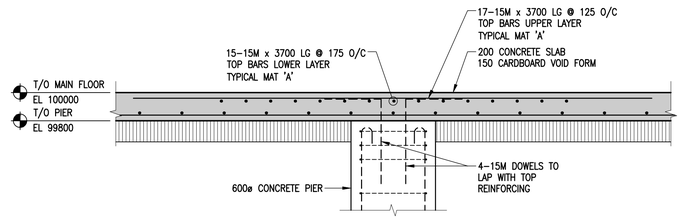

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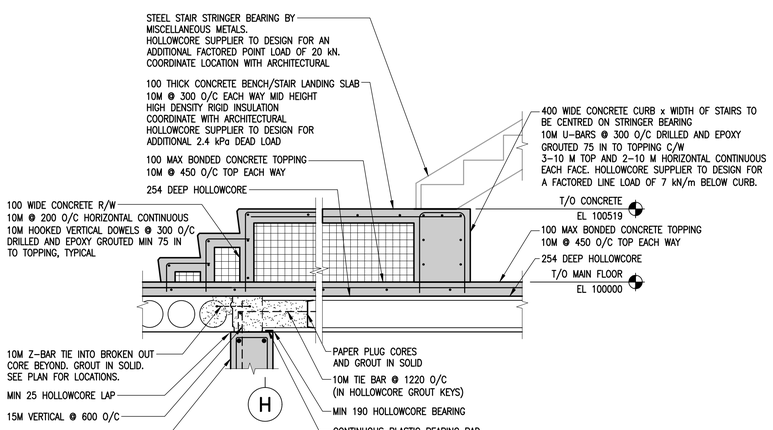
S2–05 | S4–08 1:25



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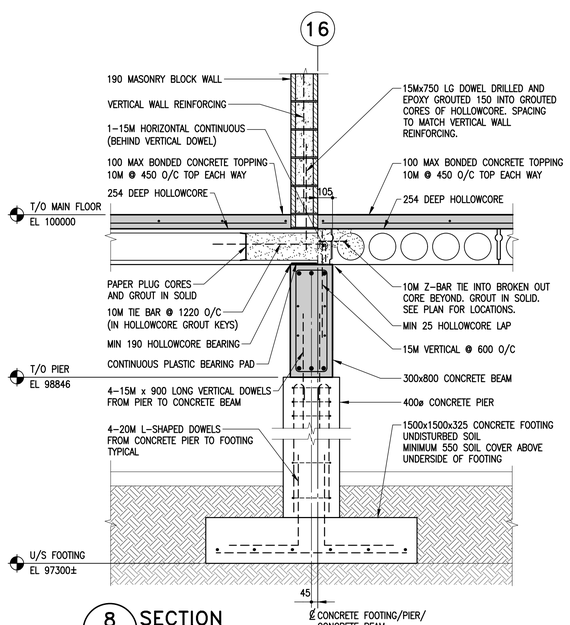
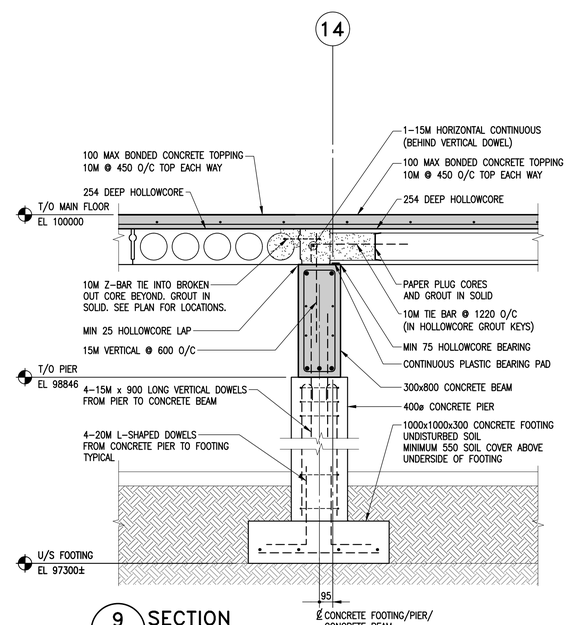
S2–05 | S4–08 1:25



8 SECTION
S2–05 | S4–08 1:25



9 SECTION
S2–05 | S4–08 1:25

300-275 Carlton Street
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T 204. 943. 7501
F 204. 943. 7507
2022-0079

Crosier Kilgour & Partners Ltd.
CONSULTING STRUCTURAL ENGINEERS

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
Crosier Kilgour & Partners Ltd.
No. 235

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telephone 204.956.0938 **fax** 204.943.5597
web www.prairiearchitects.ca

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Suite 200 - 400 Elice Ave., Winnipeg MB R3B 3M3
telephone | 204-945-8803 **fax** | 204-948-2001

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S4 08

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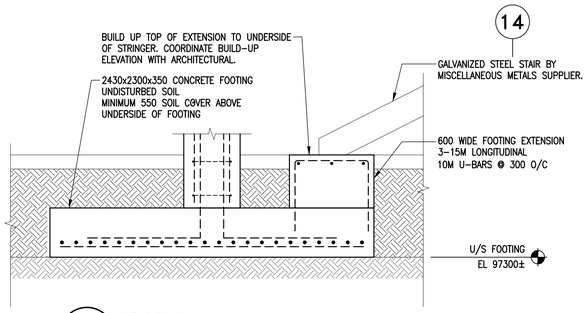

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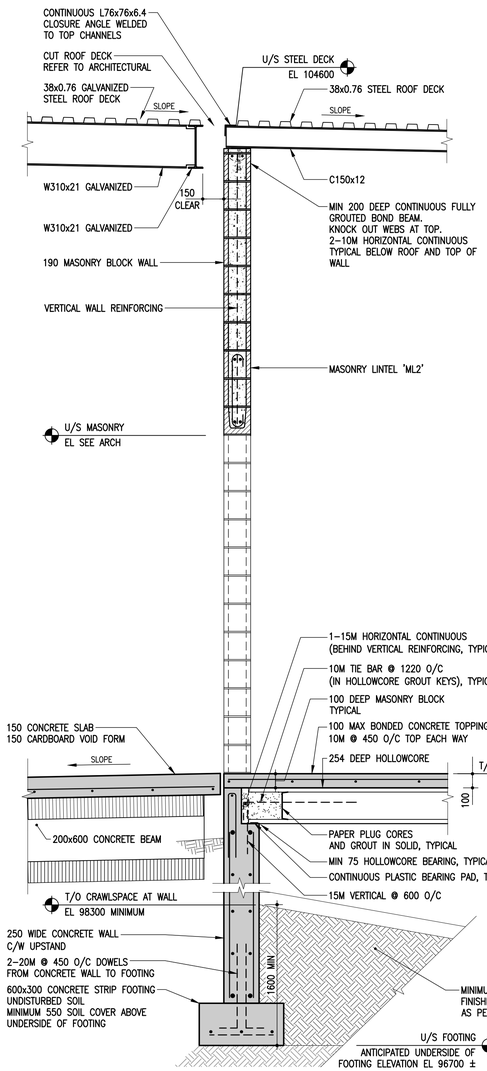

1 SECTION
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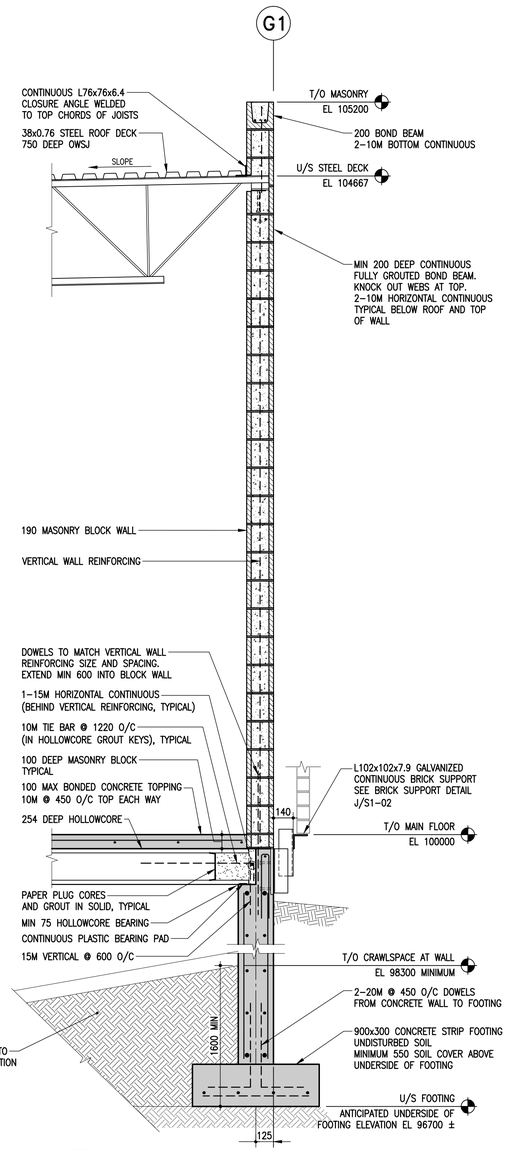

2 SECTION
FH | S4-09 1:25

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NEW WEST STEINBACH ELEMENTARY SCHOOL
Parkland Drive, Steinbach, MB.

S4 09

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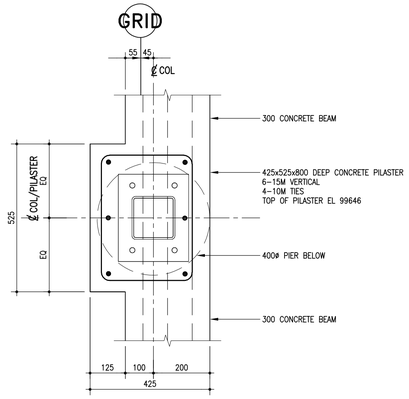

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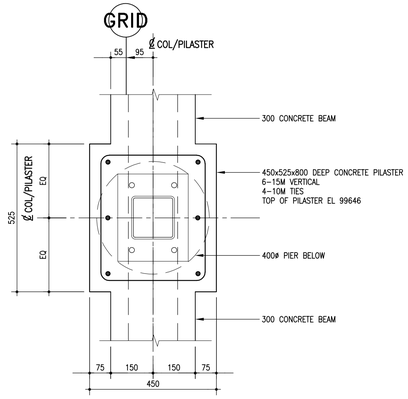
S2-04 S2-06 | S5-01 1:10



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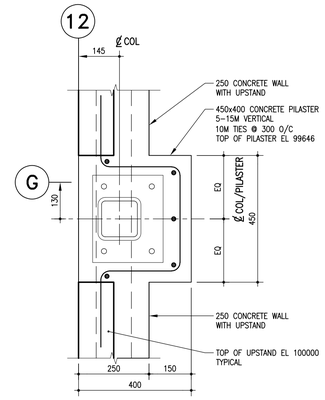
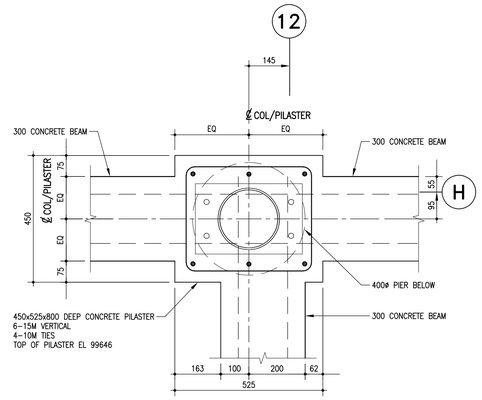
S2-04 S2-05 | S5-01 1:10



C PILASTER DETAIL 'PIL3'
S2-05 S5-01 1:10

- REFER TO G/S102 FOR COLUMN POCKET DETAIL AT CONCRETE BEAM/WALL UPSTANDS



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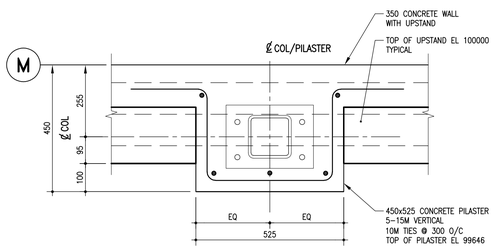

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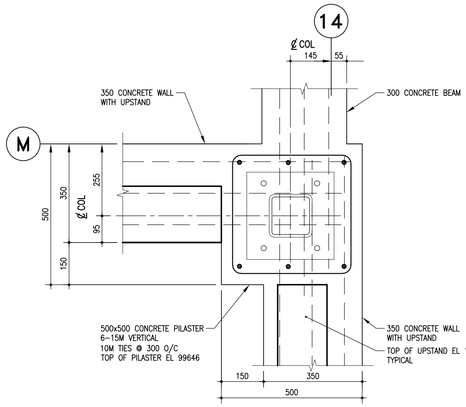
- REFER TO G/S102 FOR COLUMN POCKET DETAIL AT CONCRETE BEAM/WALL UPSTANDS



F PILASTER DETAIL 'PIL6'
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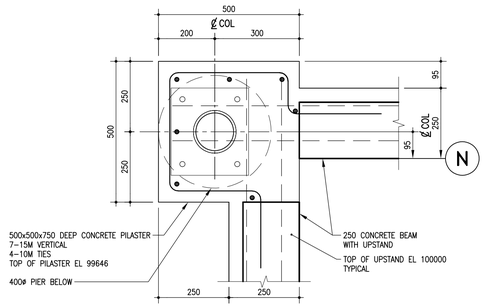

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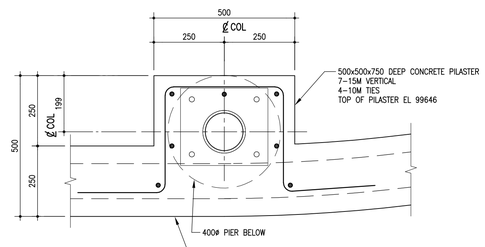
- REFER TO G/S102 FOR COLUMN POCKET DETAIL AT CONCRETE BEAM/WALL UPSTANDS



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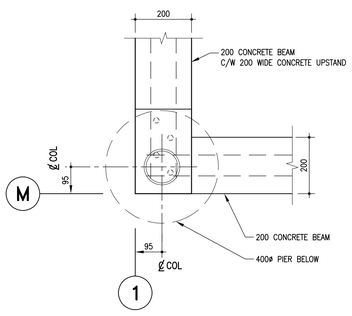
S2-05 S5-01 1:10



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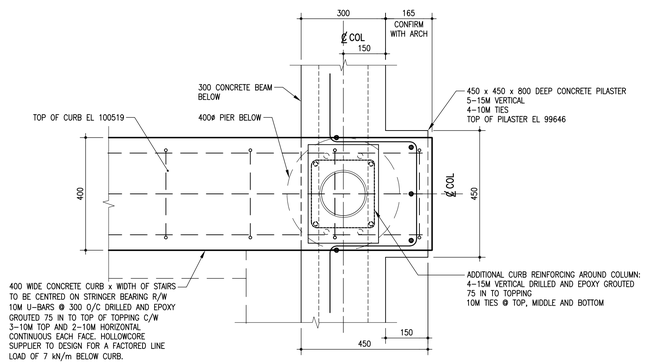

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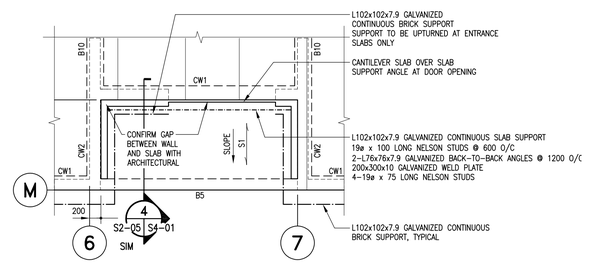

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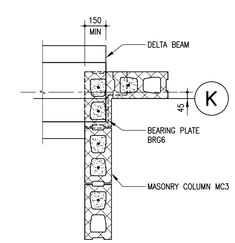

M PLAN DETAIL
S2-04 S5-01 1:20

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drawing information

DETAILS

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approved by: **NM**

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S5 01

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DRAWING LIST

M0 01 DRAWING LIST AND SYMBOL LEGENDS

M2 01 FOUNDATION FLOOR PLAN - PLUMBING EAST WING

M2 02 FOUNDATION FLOOR PLAN - CORE SPACES

M2 03 FOUNDATION FLOOR PLAN - PLUMBING NORTH WING

M2 04 MAIN & SECOND FLOOR PLAN - PLUMBING EAST WING

M2 05 MAIN FLOOR PLAN - PLUMBING - CORE SPACES

M2 06 MAIN FLOOR PLAN - PLUMBING - NORTH WING

M2 07 SECOND FLOOR PLAN - PLUMBING - NORTH WING

M2 08 ROOF PLAN - PLUMBING

M2 09 PLUMBING DETAILS

M3 01 FOUNDATION FLOOR PLAN - FIRE PROTECTION

M3 02 MAIN FLOOR PLAN - FIRE PROTECTION

M3 03 SECOND FLOOR PLAN - FIRE PROTECTION

M4 01 FOUNDATION FLOOR PLAN - VENTILATION

M4 02 MAIN & SECOND FLOOR PLAN - VENTILATION - EAST WING

M4 03 MAIN FLOOR PLAN - VENTILATION - CORE SPACES

DRAWING LIST

M4 04 MAIN FLOOR PLAN - VENTILATION - NORTH WING

M4 05 SECOND FLOOR PLAN - VENTILATION - NORTH WING

M4 06 ROOF PLAN - VENTILATION

M4 07 VENTILATION - DETAILS AND SECTIONS

M4 08 VENTILATION SCHEMATIC

M4 09 VENTILATION DETAILS

M4 10 VENTILATION DETAILS

M5 01 FOUNDATION PLAN - HYDRONIC

M5 02 MAIN & SECOND FLOOR PLAN - HYDRONIC - EAST WING

M5 03 MAIN FLOOR PLAN - HYDRONIC - CORE SPACES

M5 04 MAIN FLOOR PLAN - HYDRONIC - NORTH WING

M5 05 SECOND FLOOR PLAN - HYDRONIC - NORTH WING

M5 06 ENLARGED MECHANICAL ROOM - HYDRONIC

M5 07 HYDRONIC SCHEMATIC

M5 08 HYDRONIC SCHEMATIC

M5 09 HYDRONIC DETAILS

PLUMBING LEGEND

	SHUT-OFF VALVE
	NORMALLY CLOSED SHUT-OFF VALVE
	MANUAL BALANCING VALVE
	CHECK VALVE
	BACKFLOW PREVENTER
	PRESSURE GUAGE C/W SHUT-OFF
	THERMOMETER C/W SHUT-OFF
	PRESSURE RELIEF VALVE
	HOSE BIBB
	UNION
	PIPE CAP
	WATER METER
	PUMP
	VENT THRU ROOF
	FLOOR DRAIN
	ROOF DRAIN
	HUB DRAIN
	NON-FREEZEE WALL HYDRANT
	CLEANOUT
**	PLUMBING FIXTURE DESIGNATION
TYPE / NO.	EQUIPMENT DESIGNATION

HVAC LEGEND

	SUPPLY / MAKE-UP / OUTSIDE / COMBUSTION AIR DUCT UP / DOWN
	RETURN AIR DUCT UP / DOWN
	EXHAUST / RELIEF AIR DUCT UP / DOWN
	SUPPLY / MAKE-UP / OUTSIDE / COMBUSTION AIR DUCT UP / DOWN
	RETURN AIR DUCT UP / DOWN
	EXHAUST / RELIEF AIR DUCT UP / DOWN
	RETURN / EXHAUST / RELIEF AIR WALL OPENING
BDD	BACK DRAFT DAMPER
	MANUAL BALANCING DAMPER
FD	FIRE DAMPER
M	MOTORIZED DAMPER
	TURNING VANES
	DUCT SILENCER
	ACOUSTIC INSULATION
T	THERMOSTAT
	FLOW ARROW
** / ##	EQUIPMENT DESIGNATION
TYPE / NECK / FLOW / SIZE / THROW X2	GRILLE / DIFFUSER TYPE NECK SIZE QUANTITY OR NUMBER OF FLOW RATE (L/S) FACE SIZE OR THROW — GRILLE OR DIFFUSER DESIGNATION

HYDRONICS LEGEND

	SHUT-OFF VALVE
	MANUAL BALANCING VALVE
	CHECK VALVE
	CONTROL VALVE
	3-WAY CONTROL VALVE
	PRESSURE REGULATING VALVE
	PRESSURE GAUGE C/W SHUT-OFF
	THERMOMETER C/W SHUT-OFF
	PRESSURE RELIEF VALVE
	UNION
	PIPE CAP
	DIRECTION OF FLOW
	PUMP
	STRAINER
** / ##	EQUIPMENT DESIGNATION

FIRE PROTECTION LEGEND

	FIRE DEPARTMENT CONNECTION
FS -XX-XX	FLOW SWITCH
PS -XX-XX	PRESSURE SWITCH
TS-XX-XX	VALVE C/W TAMPER SWITCH
	SHUT-OFF VALVE
	SIDEWALL SPRINKLER HEAD

PLUMBING GENERAL NOTES

A. ALL PLUMBING WORK TO FOLLOW THE LATEST CURRENT EDITION OF THE MANITOBA PLUMBING CODE.

B. PROVIDE EXPANSION JOINT AND CLEANOUT AT DRAINS RISING FROM BELOW CONCRETE SLAB.

C. MINIMUM DRAIN PIPE SIZE BELOW GRADE IS 50mm.

D. MECHANICAL ROOM FLOOR DRAINS ARE 100mm, OTHER'S 75mm.

E. DRAWINGS ARE DIAGRAMMATIC; DO NOT SCALE DRAWINGS.

FIRE PROTECTION GENERAL NOTES

A. PIPING TO BE FIRESTOPPED THROUGH RATED PENETRATION. COORDINATE REQUIREMENTS.

B. THE SPRINKLER CONTRACTOR SHALL IN ACOORDANCE WITH INSTALL A COMPLETE SPRINKLER SYSTEM DRAWINGS AND SPECIFICATIONS, NFPA 13, AND THE AUTHORITY HAVING JURISDICTION.

C. THE SPRINKLER CONTRACTOR SHALL PREPARE A COMPLETE SPRINKLER SYSTEM DESIGN COORDINATED WITH ALL ASPECTS OF THE PROPOSED BUILDING. REFER TO OTHER DISCIPLINE DRAWINGS FOR REFERENCE. INFORMATION ON THIS DRAWING IS SHOWN FOR REFERENCE ONLY.

D. THE SPRINKLER CONTRACTOR SHALL PREPARE DETAILED DESIGN DRAWINGS AND/OR DOCUMENTS AND SUBMIT TO THE ENGINEER FOR REVIEW AND COORDINATION. ENSURE COMPLETE SPRINKLER COVERAGE IN COMPLIANCE WITH NFPA 13 & NFPA 14, AND RELATED APPLICABLE NFPA CODES. DRAWINGS SHALL BEAR THE SEAL OF AN ENGINEER LICENSED TO PRACTICE IN MANITOBA.

E. THE INSTALLATION OF SPRINKLER SYSTEMS SHALL NOT COMMENCE UNTIL THE COMPLETE SHOP DRAWINGS AND SPECIFICATIONS HAVE BEEN APPROVED BY THE AUTHORITY HAVING JURISDICTION (A.H.J.).

F. THE SPRINKLER INSTALLATION SHALL COMPLY WITH THE APPLICABLE NPFA CODES AND REQUIRMENTS OF THE A.H.J. IF THERE IS A CONFLICT WITH THE PERCEIVED INTENT OF THIS DRAWING SET AND THE REQUIREMENTS OF NFPA OR THE A.H.J., NOTIFY THE ENGINEER TO RESOLVE. NO INCREASES TO THE CONTRACT WILL BE PERMITTED FOR COMPLIANCE WITH MINIMUM CODE REQUIREMENTS.

G. IN AREAS WITH SUSPENDED TILE CEILINGS INSTALL SPRINKLER HEADS CENTRED ON THE TILES. ALLOW FOR ADDITIONAL HEADS IF NECESSARY TO MEET THIS REQUIREMENT.

H. IN AREAS WITH CLOUD CEILINGS PROVIDE ADDITIONAL SPRINKLER HEADS TO ALLOW FOR COMPLETE COVERAGE IN ACCORDANCE WITH NFPA.

I. CEILING DETAILS ARE SHOWN FOR REFERENCE ONLY . REFER TO ARCHITECTURAL CEILING PLANS FOR DETAIL.

J. SPRINKLER HEADS SHALL BE INSTALLED UNDER DUCTS MORE THAN 1200mm (48") WIDE.

K. GRADE ALL NEW PIPING TO ALLOW COMPLETE SYSTEM DRAINAGE. DRAINAGE SHALL BE ROUTED TO THE NEAREST SANITARY DRAIN OF SUFFICIENT SIZE. COORDINATE WITH PLUMBING CONTRACTOR.

L. PROVIDE PROTECTIVE CAGES ON SPRINKLER HEADS WHERE HEADS COULD BE EXPOSED TO DAMAGE

HVAC GENERAL NOTES

A. DRAWINGS ARE DIAGRAMMATIC; DO NOT SCALE DRAWINGS.

B. PROVIDE FIRE DAMPERS ON ALL DUCTWORK PENETRATING FIRE SEPERATIONS.

C. ACOUSTICALLY LINE ALL TRANSFER DUCTWORK.

D. ALL CEILING AND WALL MOUNTED DEVICES TO BE COORDINATED WITH ARCHITECTURAL PLANS AND ELEVATIONS. REPORT ANY DISCREPANCIES TO ARCHITECT BEFORE INSTALLATION.

E. CEILING DETAILS ARE SHOWN FOR REFERENCE ONLY . REFER TO ARCHITECTURAL PLANS FOR DETAIL.

F. PERFORM COORDINATION BETWEEN TRADES AS REQUIRED FOR INSTALLATION OF MECHANICAL SYSTEMS.

G. PROVIDE BALANCING DAMPERS AT EACH BRANCH DUCT AND WHERE SHOWN ON PLANS. REFER TO BRANCH DUCT DETAIL AND SPECIFICATION FOR FURTHER DAMPER INSTALLATION INFORMATION.

H. MECHANICAL OPENINGS THROUGH MASONRY BEARING WALLS TO BE LOCATED MINIMUM 400 mm FROM EDGE OF DOORS/WINDOWS AND FROM END OF WALLS. ALL MECHANICAL OPENINGS TO BE LOCATED BELOW 200 mm DEEP MASONRY BOND BEAM. WHERE MECHANICAL OPENINGS ARE REQUIRED ABOVE DOORS/WINDOWS THEY ARE TO BE LOCATED BETWEEN THE 200 mm DEEP MASONRY BOND BEAM AND LINTEL ABOVE THE DOOR/WINDOW OPENING. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATIONS OF OPENINGS AND LINTELS. ALL OPENINGS CORED THROUGH MASONRY BEARING WALLS TO BE LOCATED MINIMUM 50 mm FROM VERTICAL AND HORIZONTAL WALL REINFORCING. REINFORCING IN MASONRY WALLS IS TO BE SCANNED PRIOR TO CORING.

HYDRONICS GENERAL NOTES

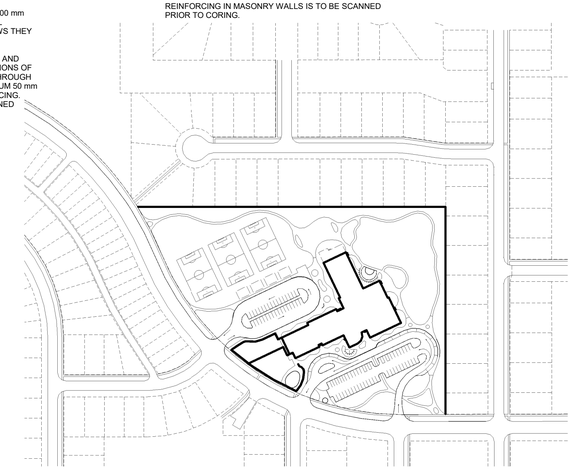
A. DRAWINGS ARE DIAGRAMMATIC; DO NOT SCALE DRAWINGS.

B. PIPING TO BE FIRESTOPPED THROUGH RATED PENETRATIONS. COORDINATE REQUIREMENTS.

C. ALL CEILING AND WALL MOUNTED DEVICES TO BE COORDINATED WITH ARCHITECTURAL PLANS AND ELEVATIONS. REPORT ANY DISCREPANCIES TO ARCHITECT BEFORE INSTALLATION.

D. PERFORM COORDINATION BETWEEN TRADES AS REQUIRED FOR INSTALLATION OF MECHANICAL SYSTEMS.

E. MECHANICAL OPENINGS THROUGH MASONRY BEARING WALLS TO BE LOCATED MINIMUM 400 mm FROM EDGE OF DOORS/WINDOWS AND FROM END OF WALLS. ALL MECHANICAL OPENINGS TO BE LOCATED BELOW 200 mm DEEP MASONRY BOND BEAM. WHERE MECHANICAL OPENINGS ARE REQUIRED ABOVE DOORS/WINDOWS THEY ARE TO BE LOCATED BETWEEN THE 200 mm DEEP MASONRY BOND BEAM AND LINTEL ABOVE THE DOOR/WINDOW OPENING. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATIONS OF OPENINGS AND LINTELS. ALL OPENINGS CORED THROUGH MASONRY BEARING WALLS TO BE LOCATED MINIMUM 50 mm FROM VERTICAL AND HORIZONTAL WALL REINFORCING. REINFORCING IN MASONRY WALLS IS TO BE SCANNED PRIOR TO CORING.



1 SITE PLAN
M0 01 SCALE NTS

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issue / rev.

#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

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ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
SMS Engineering Ltd.
No. 166

PROVINCE OF MANITOBA
23.03.24
J.-L. GRATTON
Member 23075
REGISTERED PROFESSIONAL ENGINEER

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

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Steinbach, MB
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NEW WEST STEINBACH ELEMENTARY SCHOOL
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school division

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5 Chrysler Gate
Steinbach, MB

drawing information

DRAWING LIST AND SYMBOL LEGENDS

drawn by: JR
approved by: JLG

scale: AS NOTED
date issued: 2023.03.24
proj. #: 2021.49
rev. #: R-0

M0 01

REVIT PROJECT SERVER PATH
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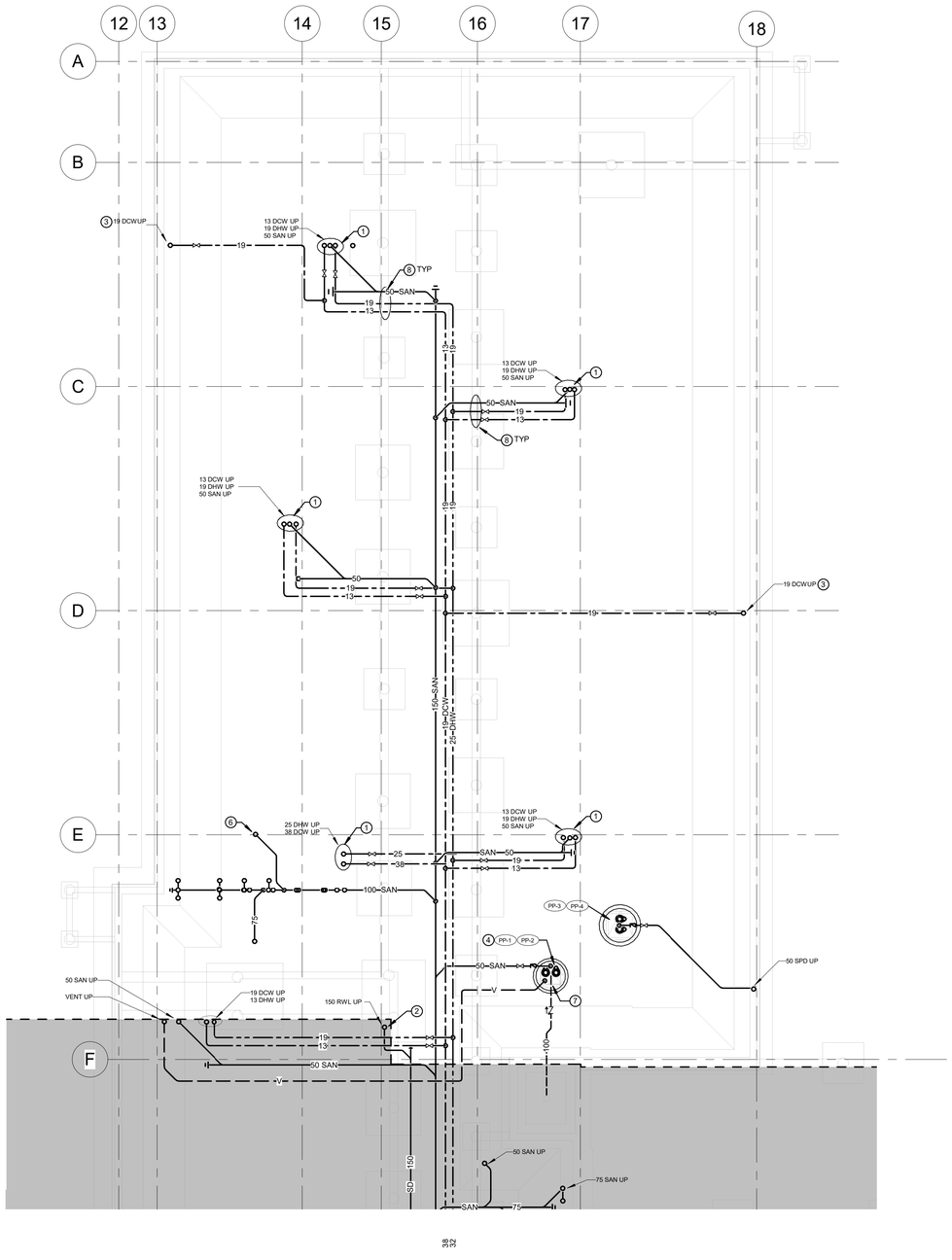
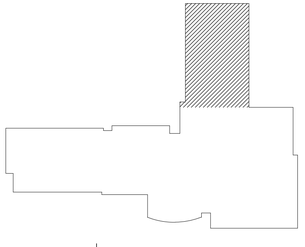


1 M2 01 FOUNDATION LEVEL - PLUMBING - EAST WING

SCALE: 1 : 100

KEY NOTES (##)

1. DOMESTIC WATER RISERS TO ABOVE. PROVIDE DRAIN VALVE AND CAP AT EACH RISER.
2. RAIN WATER LEADER FROM FLOOR ABOVE.
3. 19mm DCW SERVING WALL HYDRANT ABOVE.
4. DUPLEX OIL SENSING SUMP PUMPSSERVING ELEVATOR SUMP PIT. CONNECT DISCHARGE TO SANITARY. PROVIDE CHECK VALVE ON DISCHARGE UPSTREAM OF CON NECTION.
6. PIPE UP TO FLOOR DRAIN ABOVE WITH TRAP.
7. BACKWATER VALVE IN PIT.
8. SLEEVE PIPING THROUGH GRADE BEAMS.



KEYPLAN

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FOUNDATION FLOOR PLAN - PLUMBING EAST WING

drawn by: **JR**
approved by: **JLG**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

M2 01

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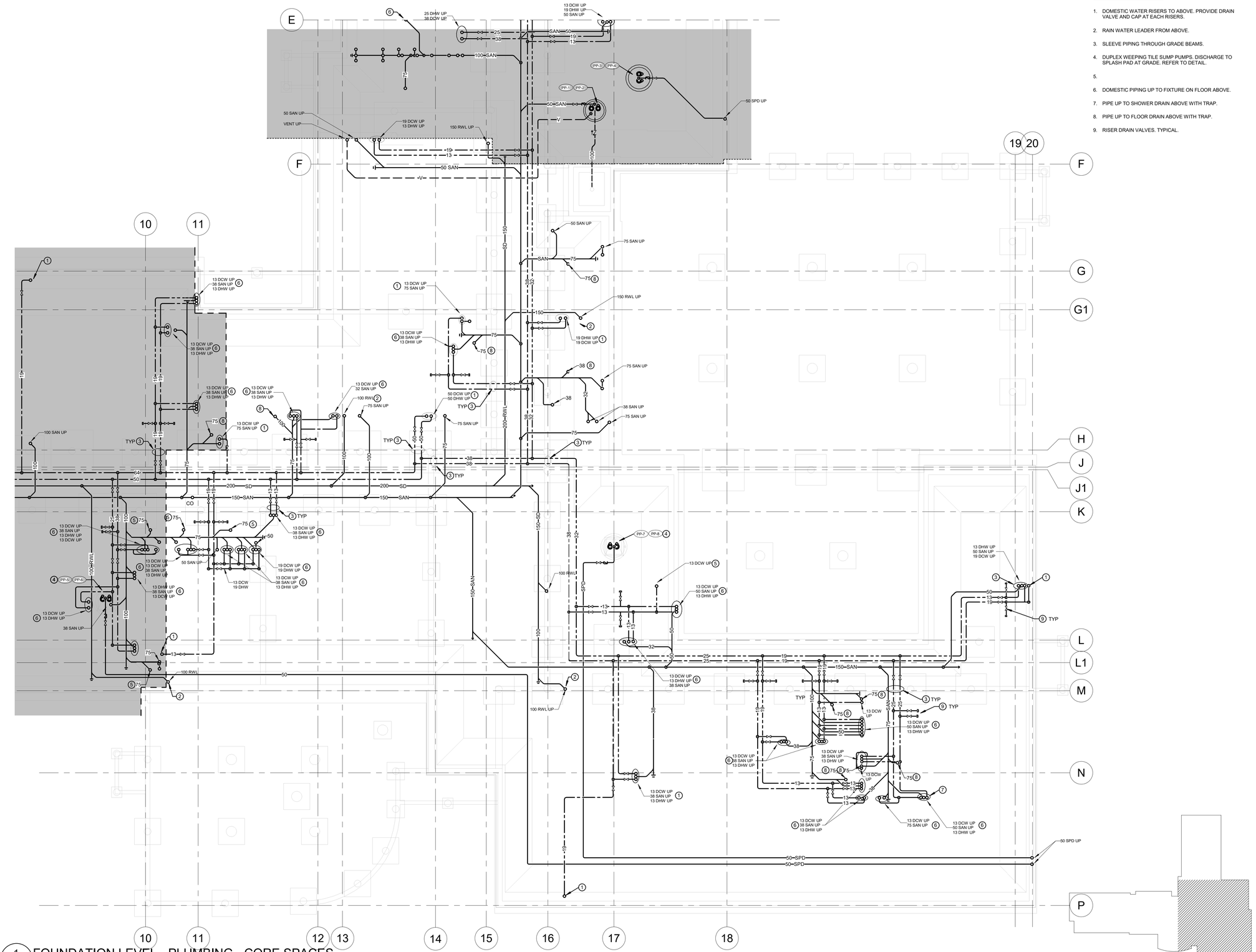

1 M2 02 FOUNDATION LEVEL - PLUMBING - CORE SPACES
SCALE: 1 : 100

KEY NOTES (##)

1. DOMESTIC WATER RISERS TO ABOVE. PROVIDE DRAIN VALVE AND CAP AT EACH RISERS.
2. RAIN WATER LEADER FROM ABOVE.
3. SLEEVE PIPING THROUGH GRADE BEAMS.
4. DUPLEX WEEPING TILE SUMP PUMPS. DISCHARGE TO SPLASH PAD AT GRADE. REFER TO DETAIL.
5.
6. DOMESTIC PIPING UP TO FIXTURE ON FLOOR ABOVE.
7. PIPE UP TO SHOWER DRAIN ABOVE WITH TRAP.
8. PIPE UP TO FLOOR DRAIN ABOVE WITH TRAP.
9. RISER DRAIN VALVES. TYPICAL.

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FOUNDATION FLOOR PLAN - CORE SPACES

drawn by: **JR**
approved by: **JLG**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

M2 02

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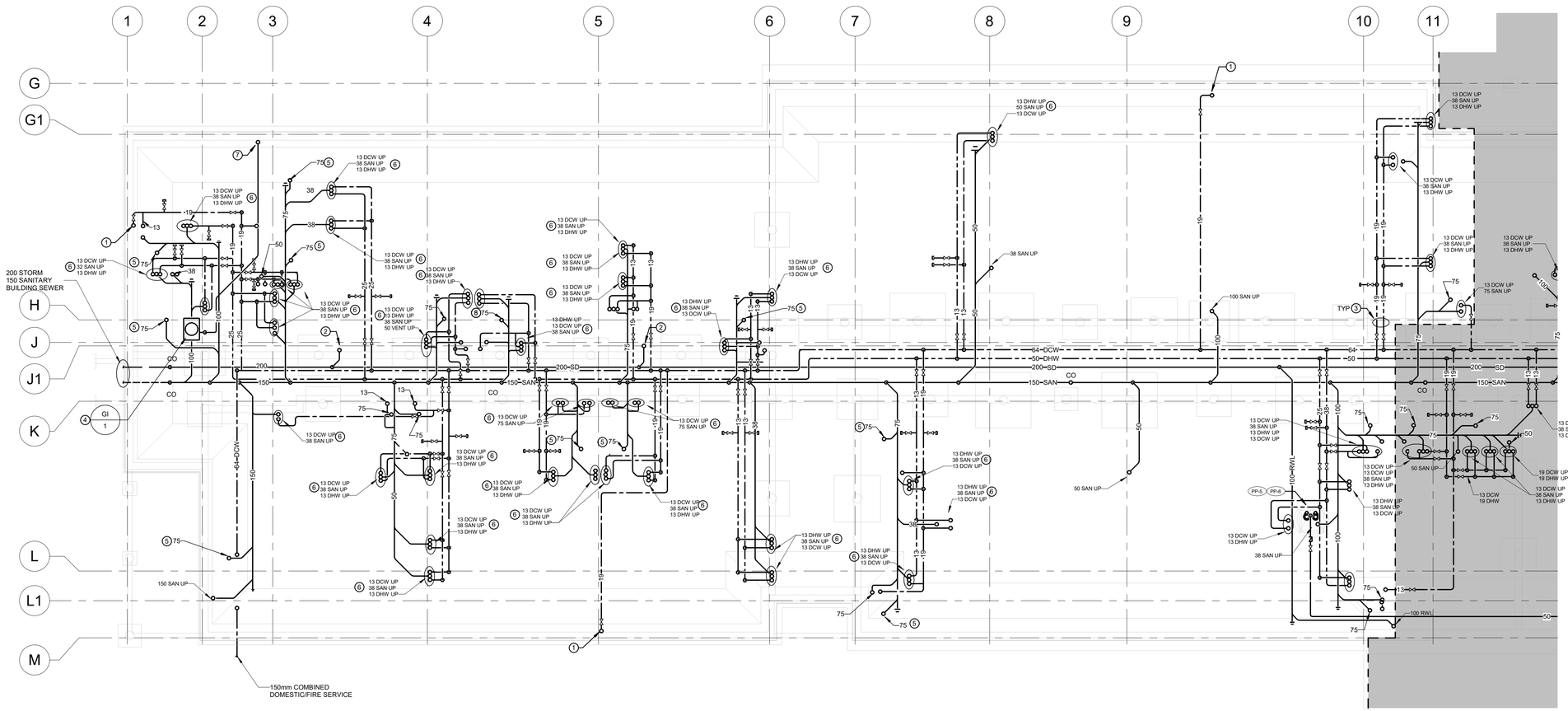
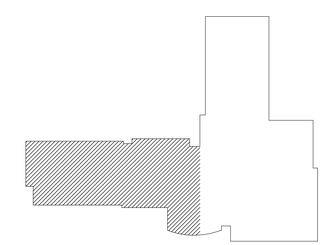
KEY NOTES (##)

1. 19mm DCW SERVING WALL HYDRANT ABOVE.
2. RAIN WATER LEADER FROM ABOVE.
3. DOMESTIC PIPING UP TO FIXTURE ON FLOOR ABOVE.
4. PROVIDE ACCESS COVER EXTENSION WITH GREASE INTERCEPTOR AND TERMINATE FLUSH AT MAIN FLOOR.
5. PIPE UPTO FLOOR DRAIN ABOVE WITH TRAP.
6. DOMESTIC PIPING UP TO FIXTURE ON FLOOR ABOVE.
7. REMOTE PUMPOUT FOR GREASE INTERCEPTOR PIPE TO ABOVE.



1 / M2 03 FOUNDATION LEVEL - PLUMBING - NORTH WING
SCALE: 1 : 100



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FOUNDATION FLOOR PLAN - PLUMBING NORTH WING

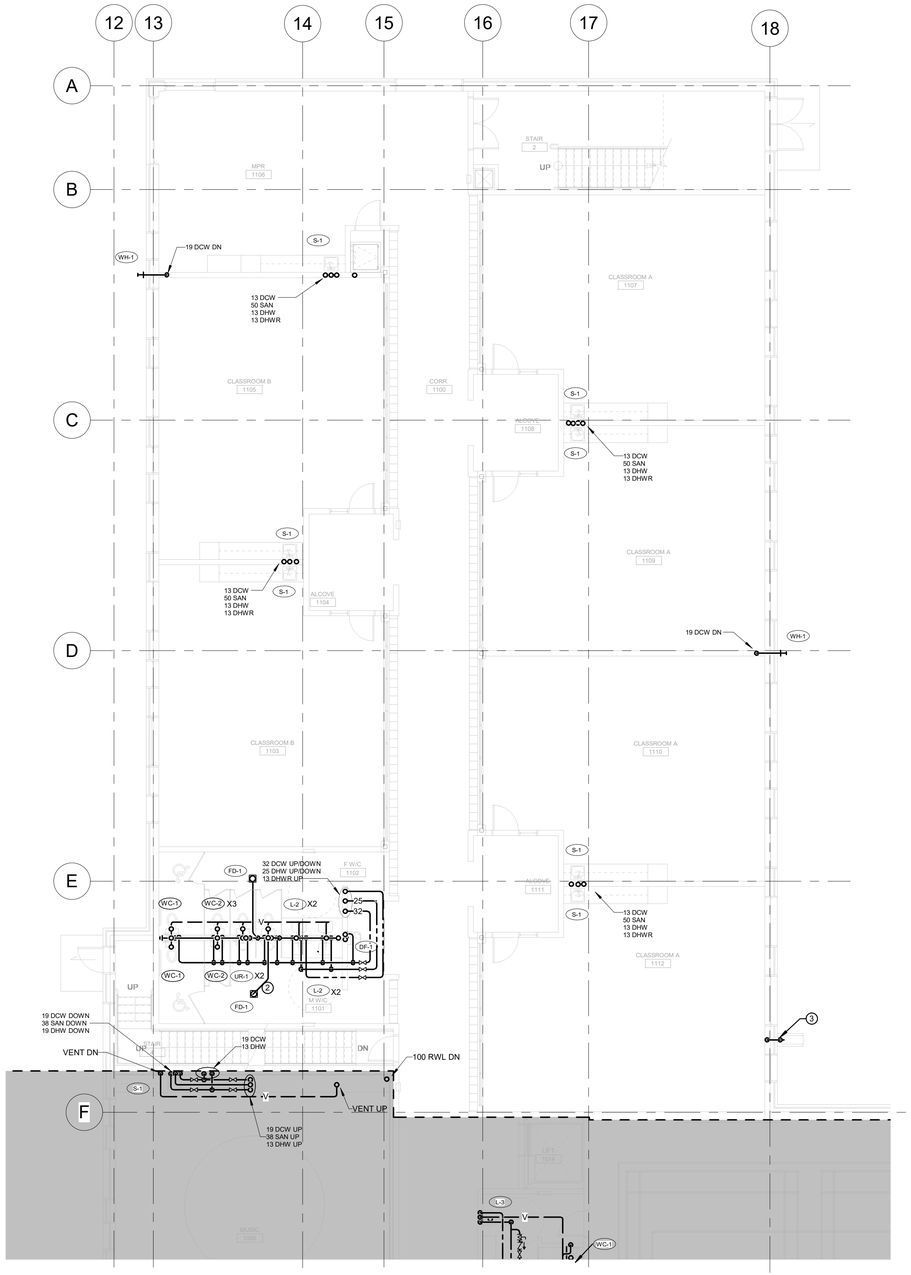
drawn by: **JR**
approved by: **JLG**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

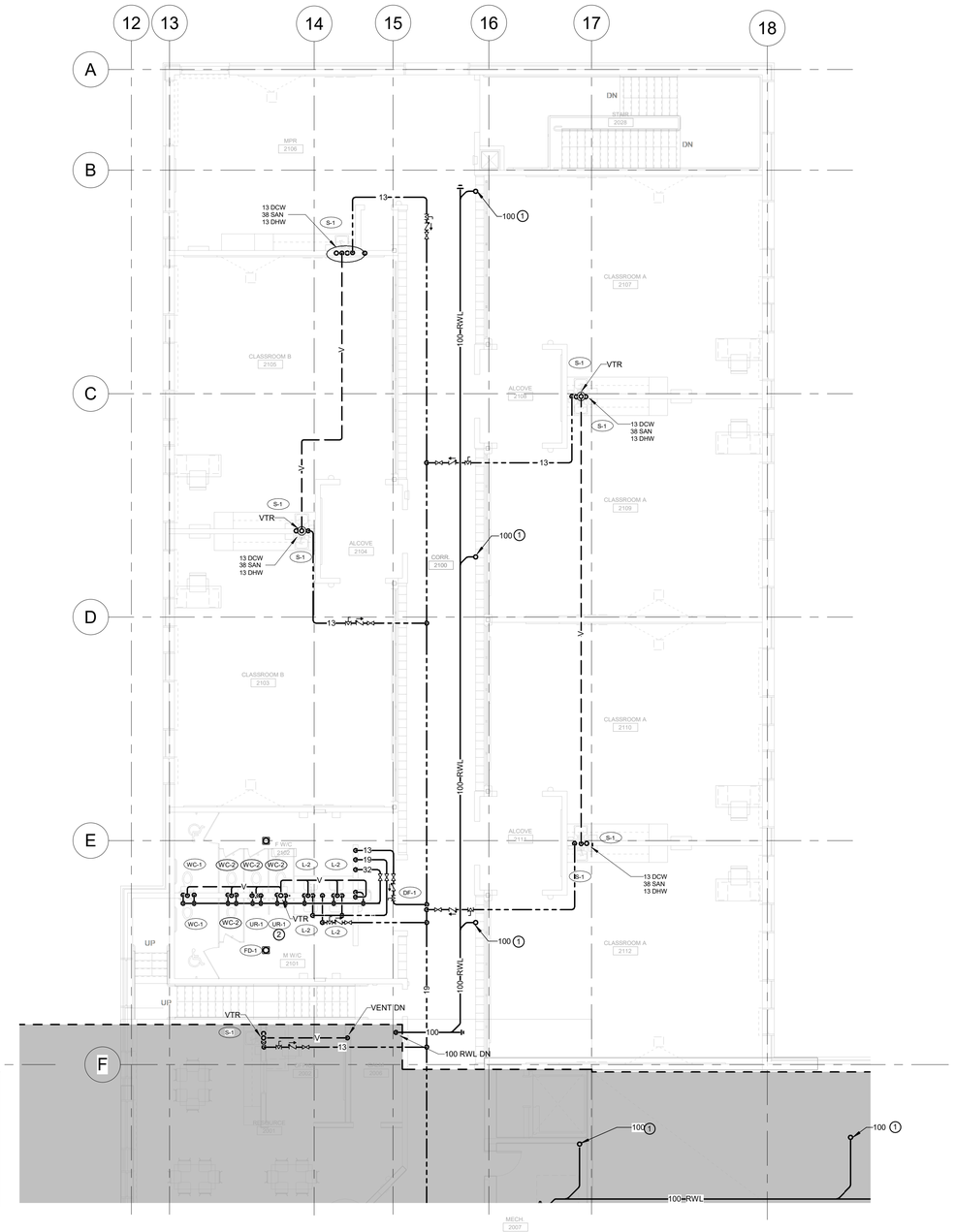
M2 03

KEY NOTES (##)

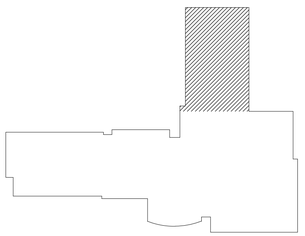
1. CONNECT TO ROOF DRAIN ABOVE.
2. REFER TO ARCHITECTURAL FOR MOUNTING HEIGHT OF FIXTURE.
3. SUMP PUMP PIPING FROM CRAWLSPACE. DISCHARGE OUTDOORS ON SPLASH PADPROVIDED BY OTHERS. REFER TO DETAIL.



1 M2 04 MAIN FLOOR PLAN - PLUMBING - EAST WING
SCALE: 1 : 100



2 M2 04 SECOND FLOOR PLAN - PLUMBING - EAST WING
SCALE: 1 : 100



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MAIN & SECOND FLOOR PLAN - PLUMBING EAST WING

drawn by: **JR**
approved by: **JLG**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

M2 04

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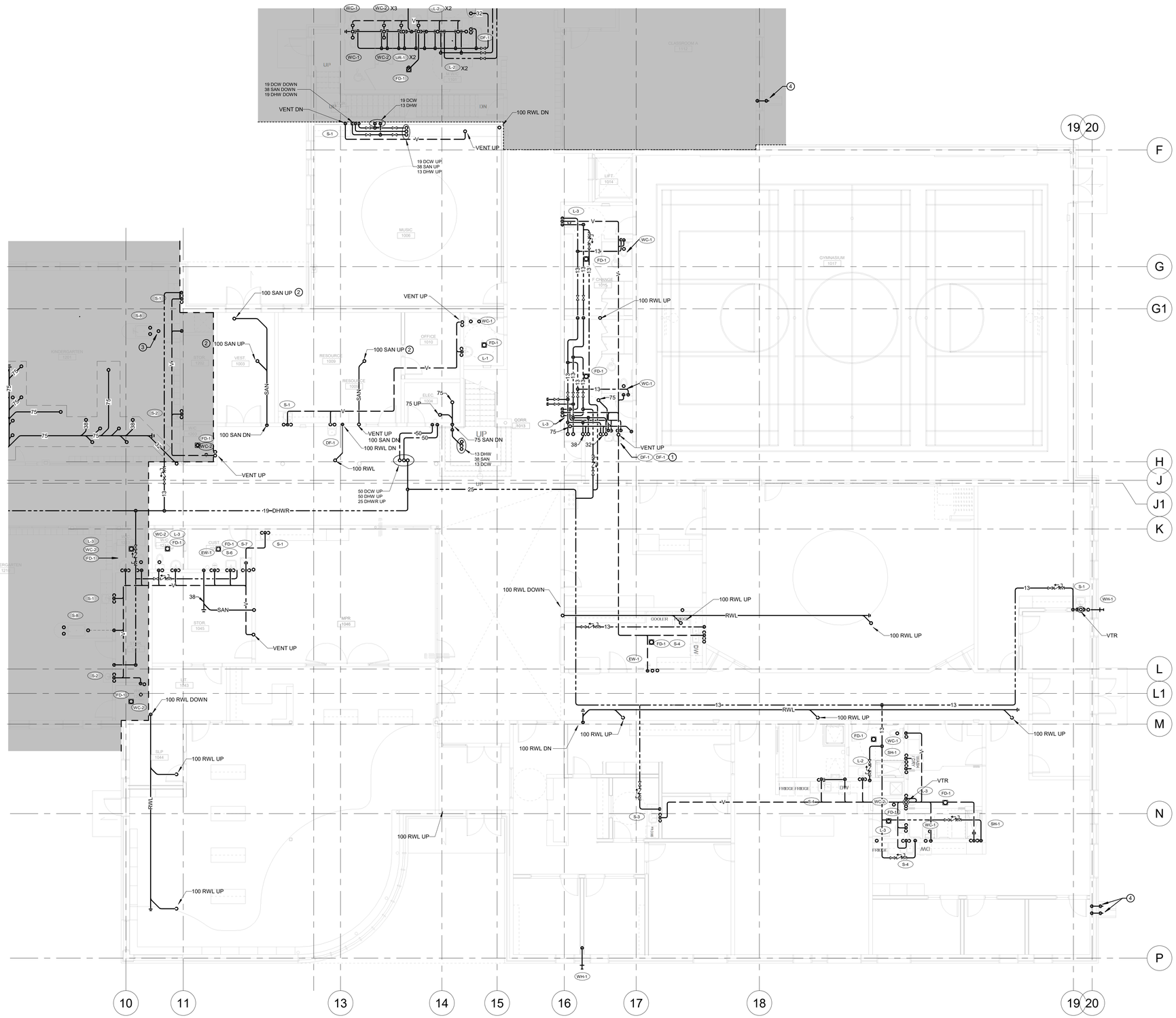
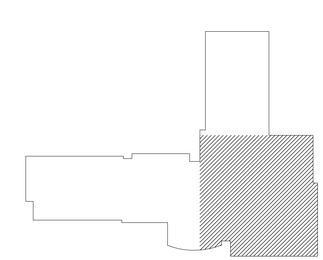


1 M2 05 MAIN FLOOR PLAN - PLUMBING - CORE SPACES
SCALE: 1 : 100



KEYPLAN

PLUMBING GENERAL NOTES

A. ALL PLUMBING WORK TO FOLLOW THE LATEST CURRENT EDITION OF THE MANITOBA PLUMBING CODE.

B. PROVIDE EXPANSION JOINT AND CLEANOUT AT DRAINS RISING FROM BELOW CONCRETE SLAB.

C. MINIMUM DRAIN PIPE SIZE BELOW GRADE IS 50mm.

D. MECHANICAL ROOM FLOOR DRAINS ARE 100mm, OTHER'S 75mm.

E. DRAWINGS ARE DIAGRAMMATIC; DO NOT SCALE DRAWINGS.

KEY NOTES (##)

1. REFER TO ARCHITECTURAL FOR MOUNTING HEIGHT OF FIXTURE.
2. CONNECT TO FLOOR DRAIN ABOVE WITH TRAP.
3. PROVIDE LOOP VENT WITHIN CABINET
4. SUMP PUMP PIPING FROM CRAWLSPACE. DISCHARGE OUTDOORS ON SPLASH PADPROVIDED BY OTHERS. REFER TO DETAIL.

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23.03.24
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MAIN FLOOR PLAN - PLUMBING - CORE SPACES

drawn by: **JR/IE**
approved by: **JLG**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

M2 05

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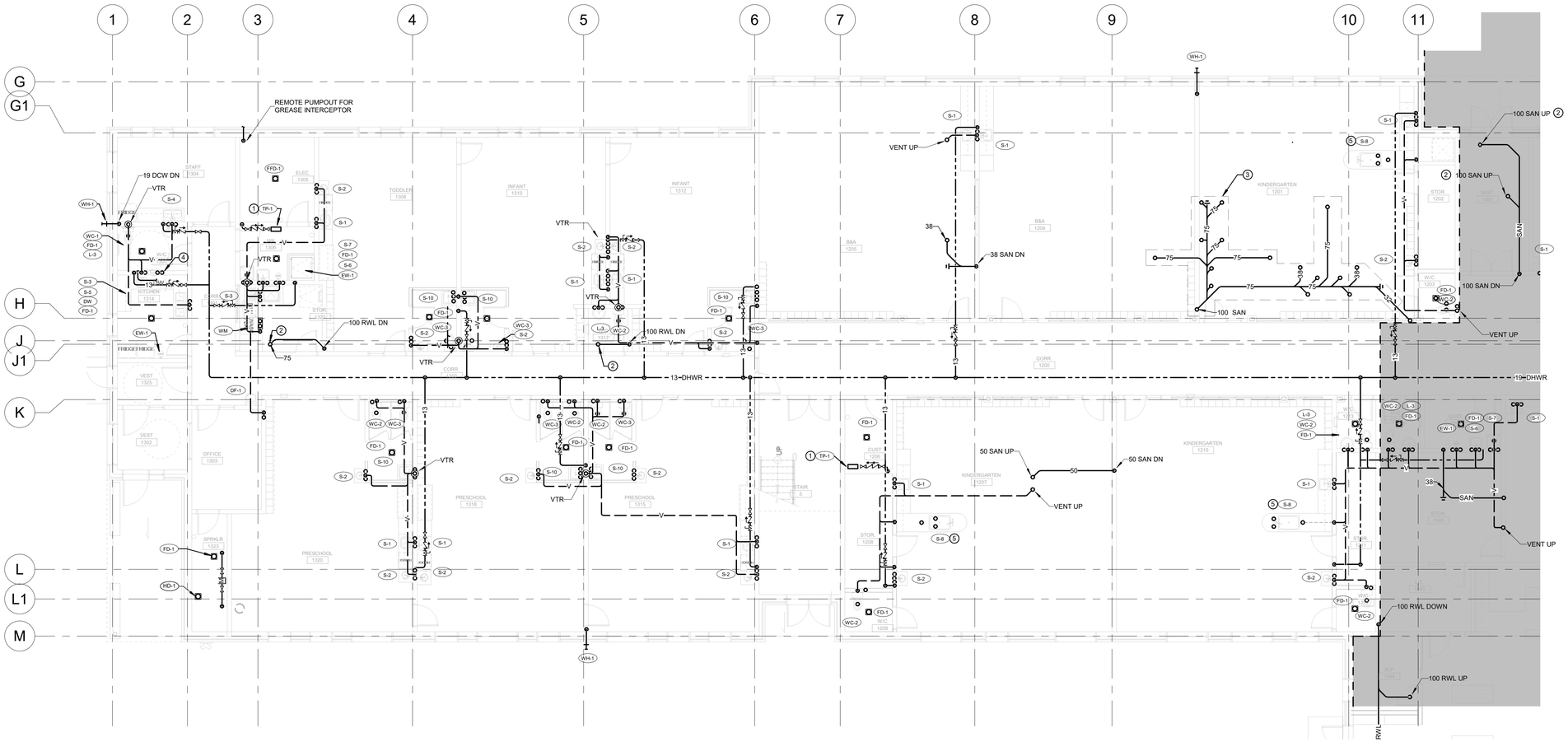
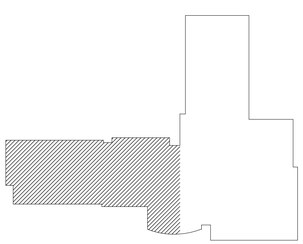
KEY NOTES (##)

1. TRAP PRIMER PANEL. REFER TO SPECIFICATION. ALL WIRING BY ELECTRICAL. CONNECT COLD WATER WITH SHUT-OFF AND RPZ BFP. LOCAL BFP DISCHARGE OVER HUB DRAIN C/W AIR BREAK. ROUTE TRAP PRIME LINES AS REQUIRED TO FLOOR DRAIN. ROUTE PIPING ON SITE.
2. CONNECT TO ROOF DRAIN ABOVE. PROVIDE INSULATION FOR DRAINAGE PIPING IN THIS LOCATION FOR SOUND PROOFING.
3. PROVIDE INSULATION FOR DRAINAGE PIPING IN THIS LOCATION FOR SOUND PROOFING.
4. PROVIDE HOT WATER CONNECTION DISHWASHER.
5. SINK AS PER ALTERNATE PRICE.



1 M2 06 MAIN FLOOR PLAN - PLUMBING - NORTH WING
SCALE: 1 : 100



KEYPLAN

REVIT PROJECT SERVER PATH

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No. 166

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23.03.24

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drawing information

MAIN FLOOR PLAN - PLUMBING - NORTH WING

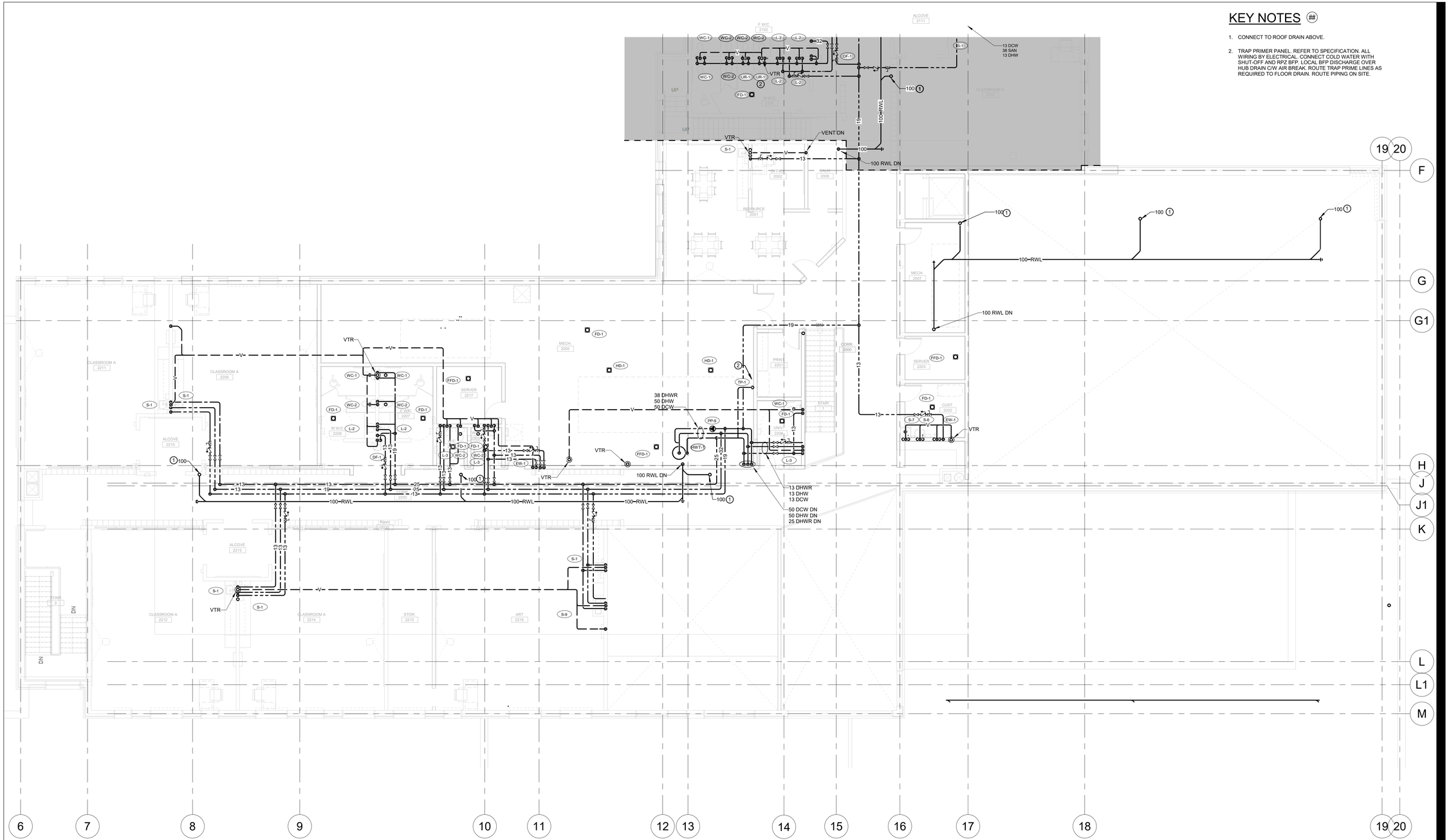
drawn by: **JR**
approved by: **JLG**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

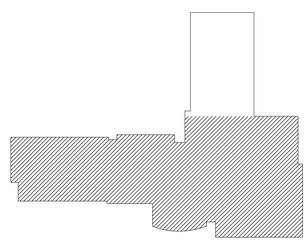
M2 06

KEY NOTES (##)

1. CONNECT TO ROOF DRAIN ABOVE.
2. TRAP PRIMER PANEL. REFER TO SPECIFICATION. ALL WIRING BY ELECTRICAL. CONNECT COLD WATER WITH SHUT-OFF AND RPZ BFP. LOCAL BFP DISCHARGE OVER HUB DRAIN C/W AIR BREAK. ROUTE TRAP PRIME LINES AS REQUIRED TO FLOOR DRAIN. ROUTE PIPING ON SITE.



1 SECOND FLOOR PLAN - PLUMBING - NORTH WING
M2 07
SCALE: 1 : 100



KEYPLAN

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drawing information

SECOND FLOOR PLAN - PLUMBING - NORTH WING

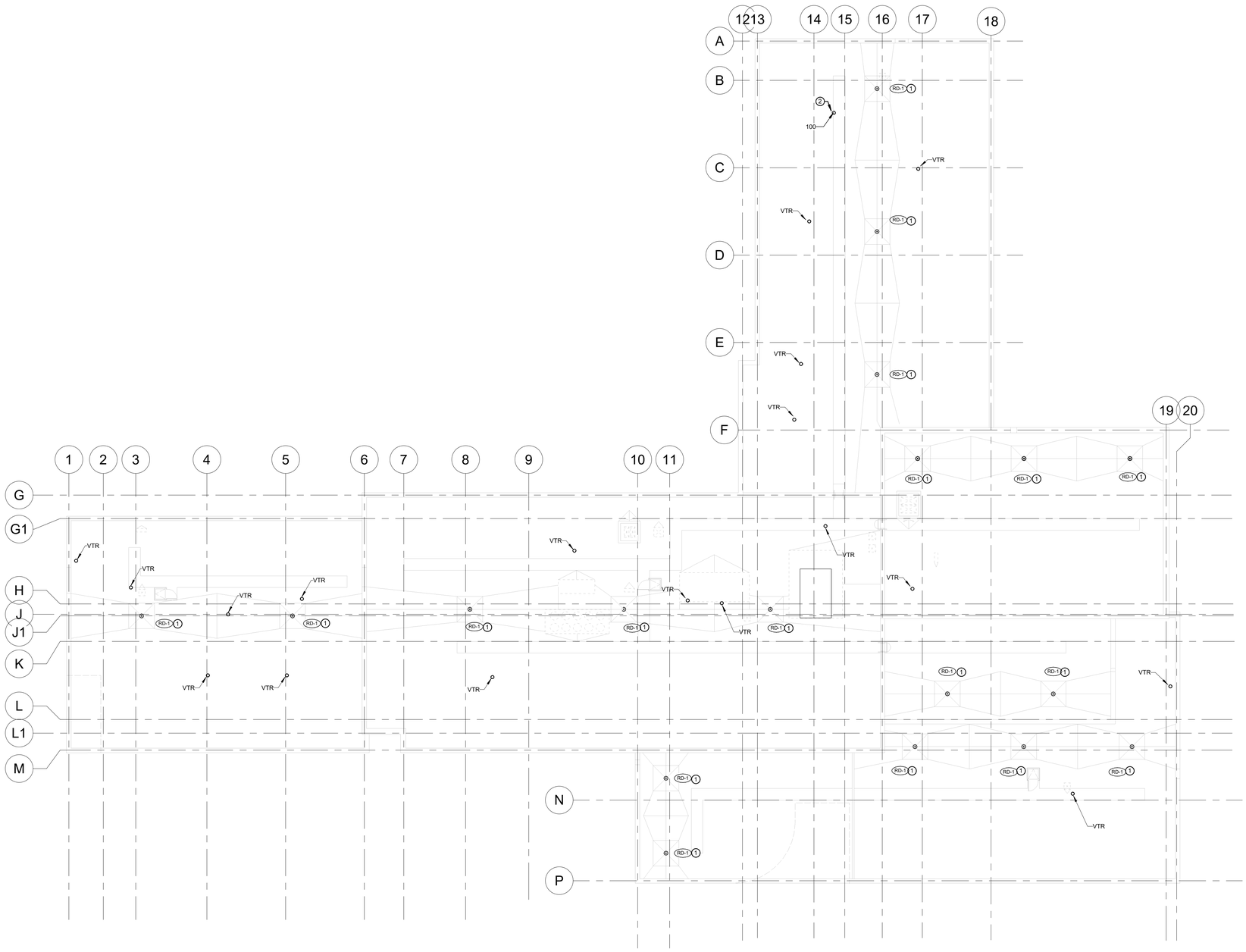
drawn by: **JR**
approved by: **JLG**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

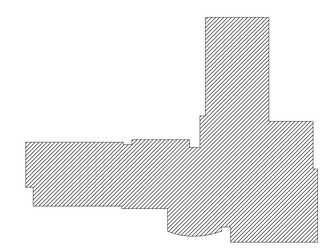
M2 07

KEY NOTES (##)

1. SINGLE WEIR CONTROLLED FLOW ROOF DRAINCOORDINATE WITHIN ELECTRICALFOR HEAT TRACE REQUIREMENTS.
2. LOCATION FOR ROUGH-IN OF FUTURE SOIL GAS EXHAUST. EXTEND FROM CRAWLSPACE TO ABOVE ROOF AND CAP.



1 ROOF PLAN - PLUMBING
M2 08
SCALE: 1 : 200



KEYPLAN

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1	2023.03.24	ISSUED FOR CONSTRUCTION

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23.03.24
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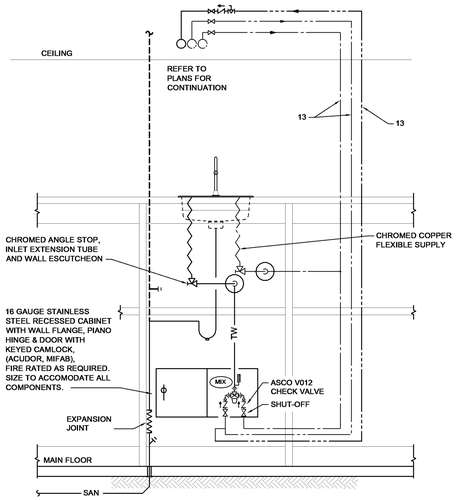
ROOF PLAN - PLUMBING

drawn by: **JR**
approved by: **JLG**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

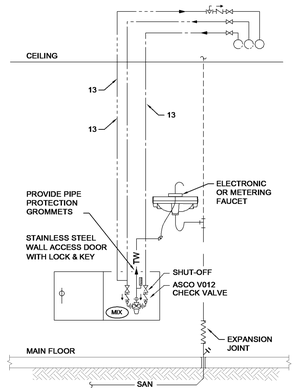
M2 08



NOTE:

A. ALL PIPE PENETRATIONS THRU STAINLESS STEEL BOX TO BE COMPLETE WITH PIPE PROTECTION GROMMET.

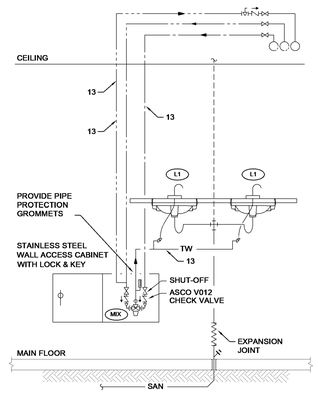
1 PUBLIC/STUDENT SINK PIPING
M2 09 SCALE: N T S



NOTE:

A. ALL PIPE PENETRATIONS THRU STAINLESS STEEL BOX TO BE COMPLETE WITH PIPE PROTECTION GROMMET.

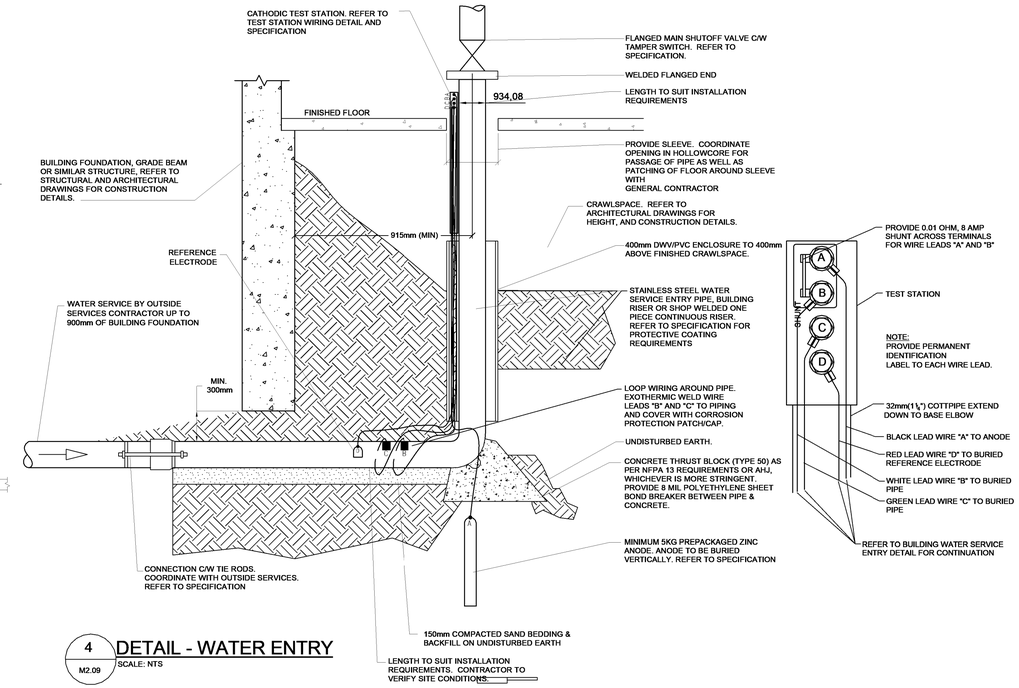
2 SINGLE LAV / SINK PIPING
M2 09 SCALE: N T S



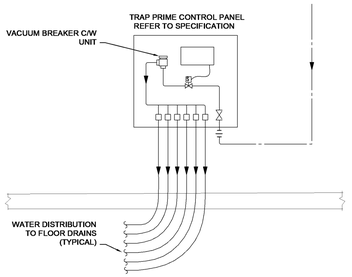
NOTE:

A. ALL PIPE PENETRATIONS THRU STAINLESS STEEL BOX TO BE COMPLETE WITH PIPE PROTECTION GROMMET.

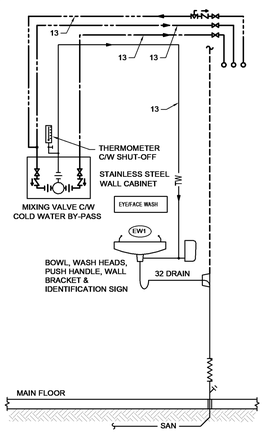
3 DOUBLE LAVATORY PIPING
M2 09 SCALE: N T S



4 DETAIL - WATER ENTRY
M2.09 SCALE: NTS



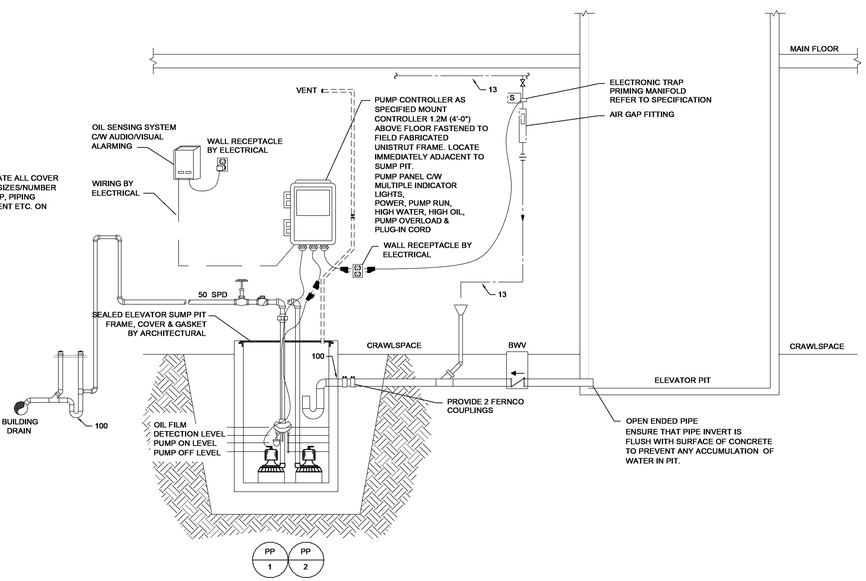
5 TRAP PRIMER DETAIL
M2.09 SCALE: N T S



NOTE:

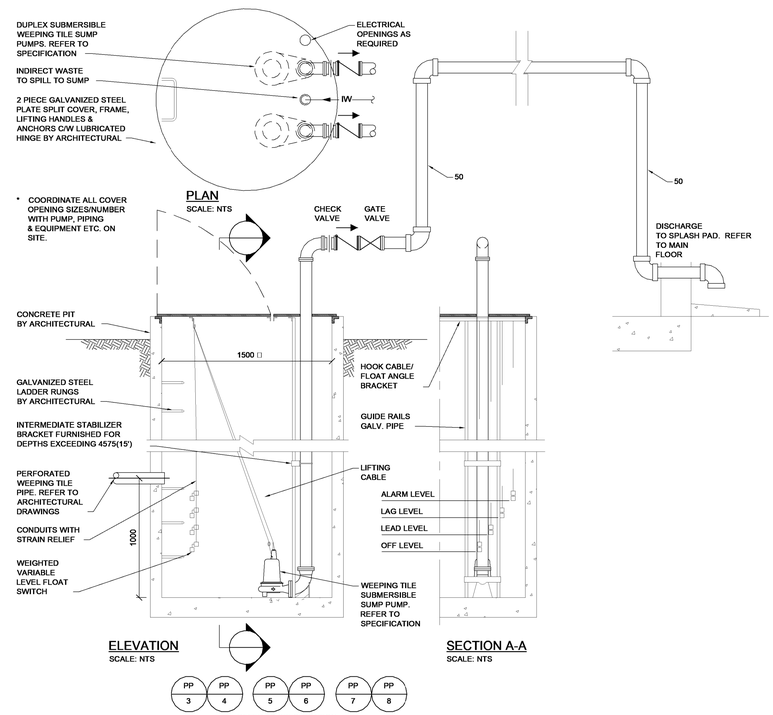
A. ALL PIPE PENETRATIONS THRU STAINLESS STEEL BOX TO BE COMPLETE WITH PIPE PROTECTION GROMMET.

6 EYEWASH PIPING
M2 09 SCALE: N T S



* ALL WIRING OF PUMP & ALARMS ETC. BY ELECTRICAL *

7 ELEVATOR PIT - DUPLEX PUMPS
M2 09 SCALE: NTS



* ALL WIRING OF PUMP & ALARMS ETC. BY ELECTRICAL *

8 WEEPING TILE PIT - DUPLEX PUMPS
M2 09 SCALE: NTS

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Member 23075
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drawing information

PLUMBING DETAILS

drawn by: **Author**
approved by: **Approver**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

M2 09

REVIT PROJECT SERVER PATH
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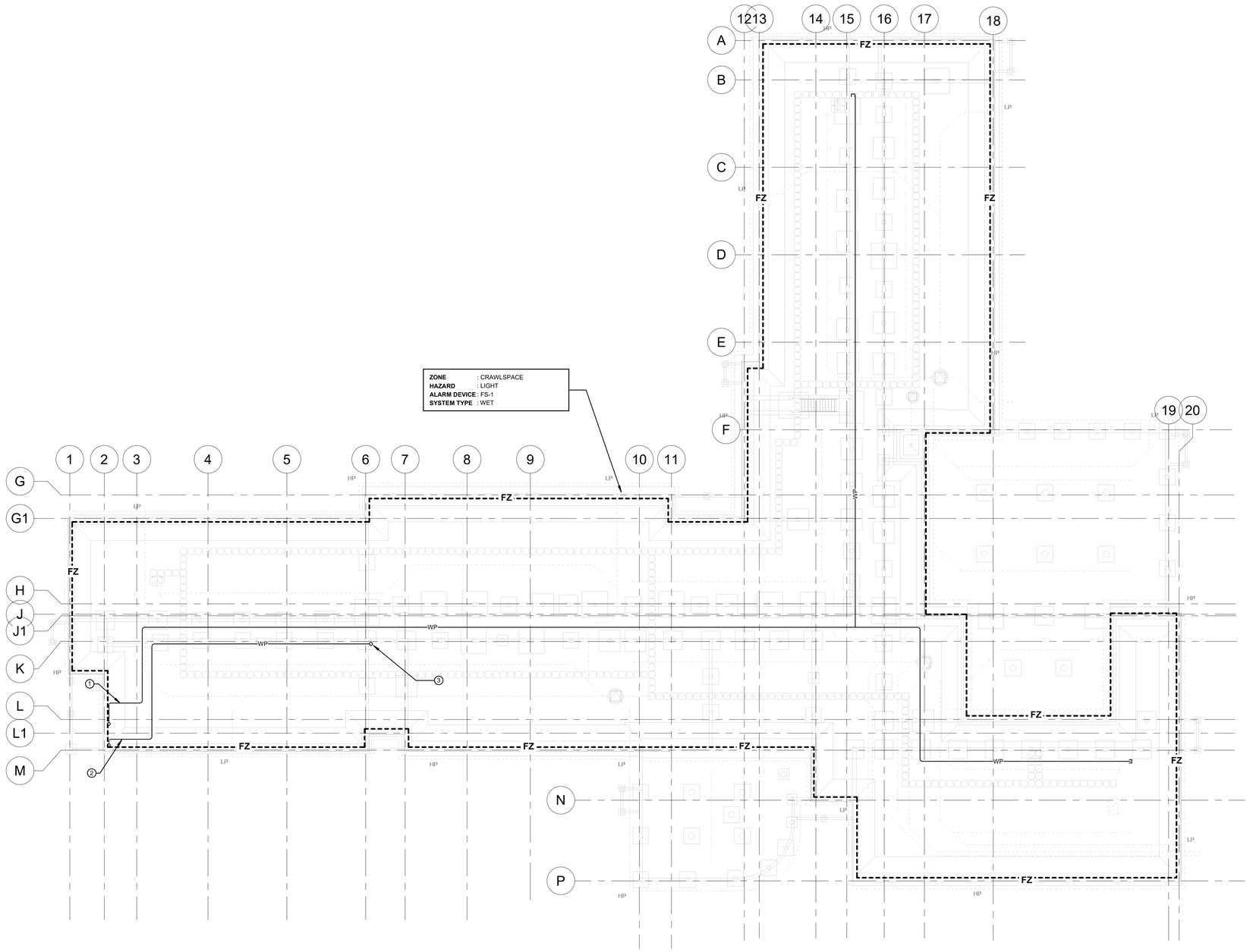
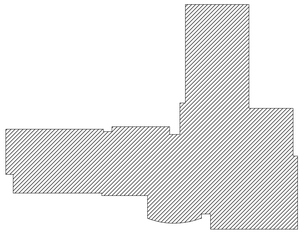
KEY NOTES (##)

1. SPRINKLER RISER FROM SPRINKLER ROOM ABOVE TO SERVE CRAWLSPACE.
2. SPRINKLER MAIN FROM SPRINKLER ROOM ABOVE ROUTED THROUGH CRAWLSPACE TO SERVE SCHOOL AREA ABOVE.
3. SPRINKLER RISER UP TO SCHOOL MAIN FLOOR.



1 M3 01 FOUNDATION LEVEL - FIRE PROTECTION
SCALE: 1 : 200



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FOUNDATION FLOOR PLAN - FIRE PROTECTION

drawn by: **Author**
approved by: **Approver**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

M3 01

REVIT PROJECT SERVER PATH
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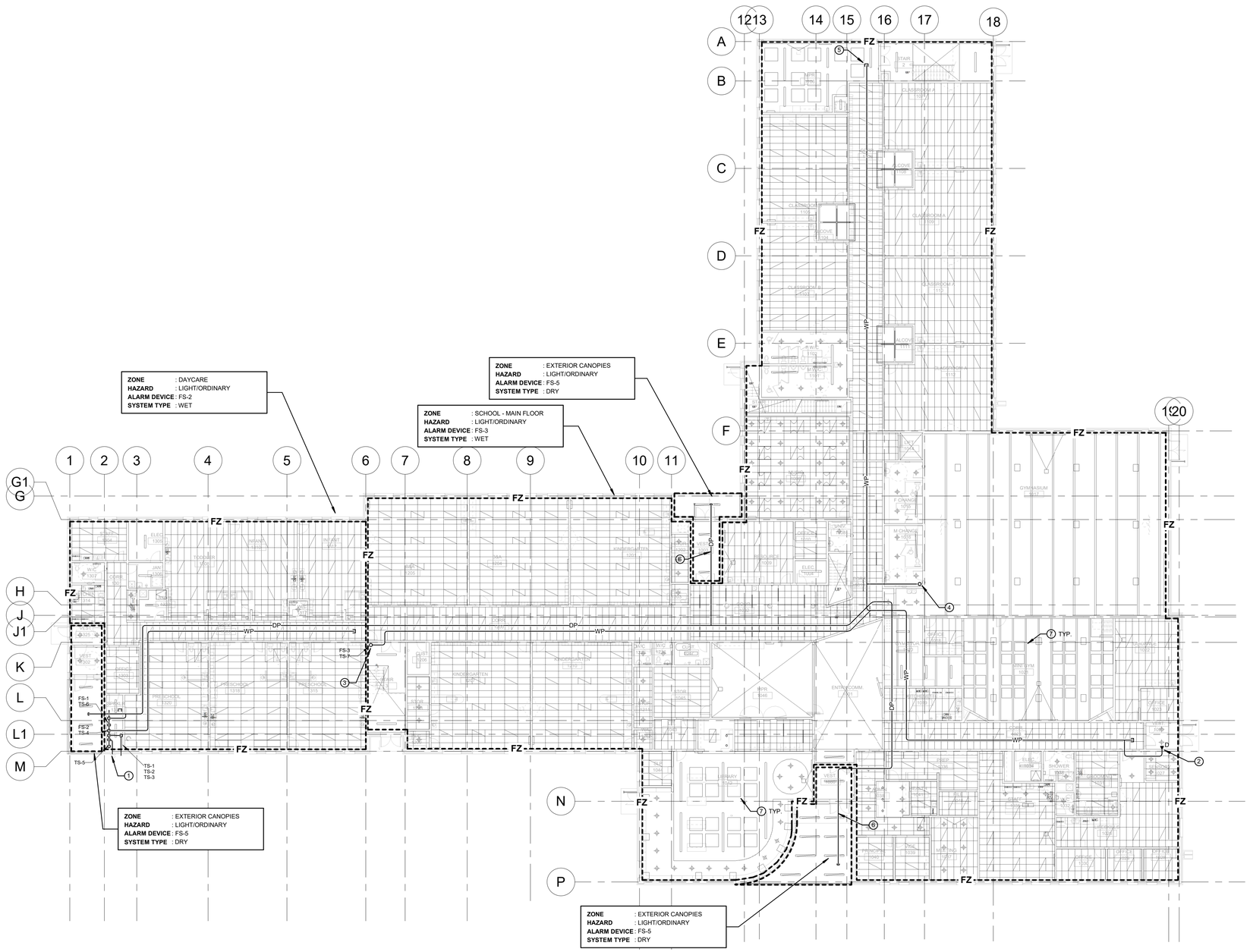
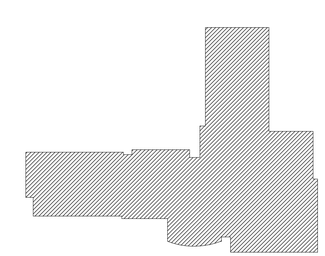
KEY NOTES (##)

1. FIRE DEPARTMENT CONNECTION.
2. PROVIDE DRY SIDEWALL HEAD TO SERVE VESTIBULE.
3. SPRINKLER RISER SERVING SCHOOL ROUTED UP FROM CRAWLSPACE.
4. SPRINKLER RISER SERVING GYMNASIUM ROUTED UP TO CUSTODIAN ROOM ABOVE AND ROUTED THROUGH GYMNASIUM AT HIGH LEVEL.
5. SIZE PIPING WITH ALLOWANCE FOR FUTURE ADDITION.
6. PROVIDE DRY SPRINKLER IN VESTIBULE.
7. PROVIDE ADDITIONAL SPRINKLER HEADS TO ALLOW FOR COVERAGE BELOW CLOUD CEILINGS. INSTALL WITH DEFLECTORS SPACED EVENLY BETWEEN GAPS OF CLOUD PANELS. SPRINKLER DEFLECTOR TO BE INSTALLED ABOVE BOTTOM PLANE OF CLOUD PANELS.



1 M3 02 MAIN FLOOR PLAN - FIRE PROTECTION
SCALE: 1 : 200



KEYPLAN

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MAIN FLOOR PLAN - FIRE PROTECTION

drawn by: **Author**
approved by: **Approver**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

M3 02

REVIT PROJECT SERVER PATH
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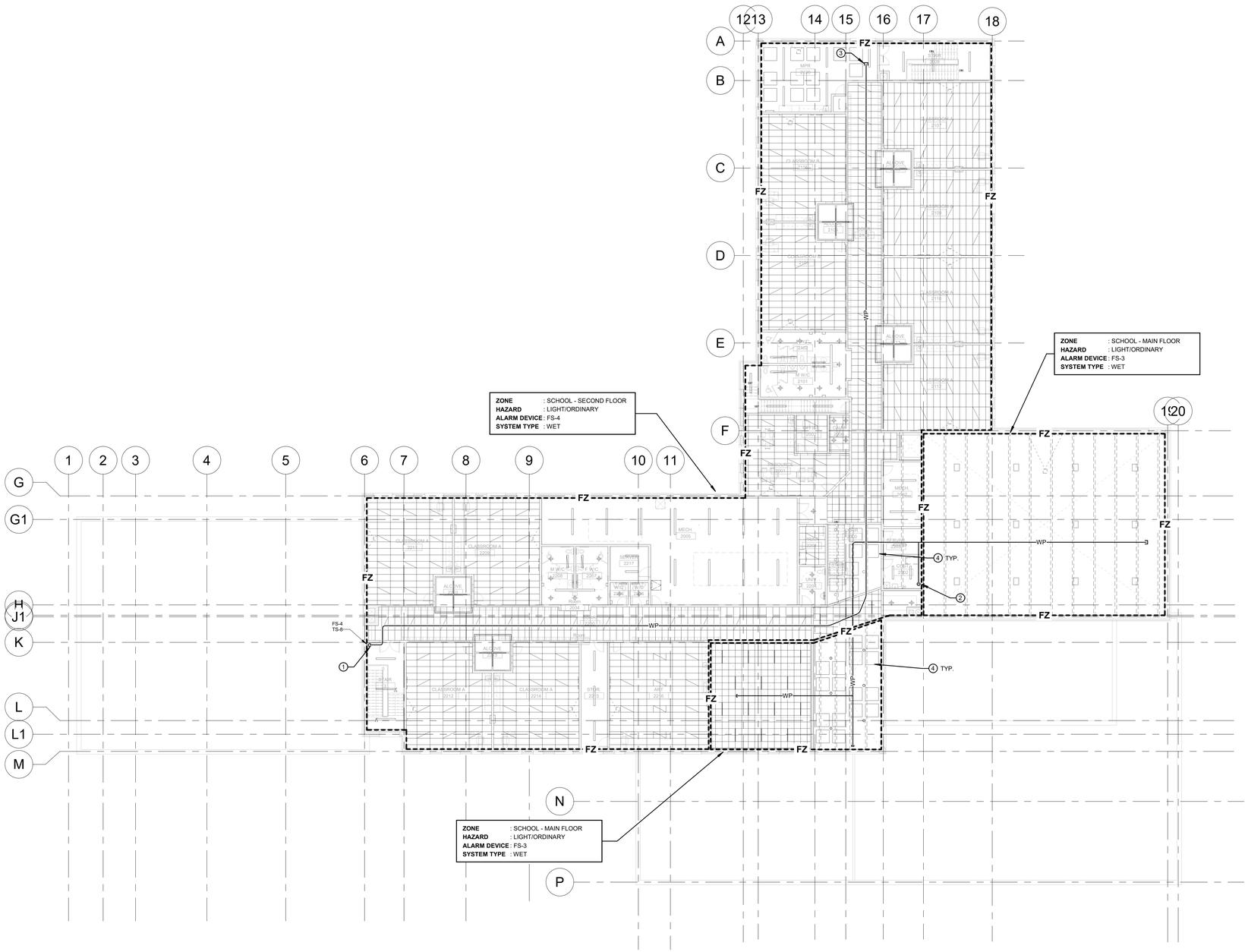
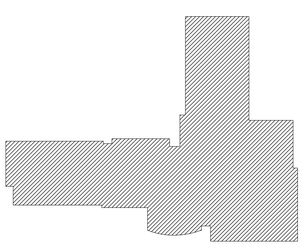
KEY NOTES (##)

1. SPRINKLER RISER SERVING SCHOOL ROUTED UP FROM CRAWLSPACE.
2. SPRINKLER RISER SERVING GYMNASIUM ROUTED FROM CHANGE ROOM CEILING SPACE BELOW AND ROUTED THROUGH GYMNASIUM AT HIGH LEVEL.
3. SIZE PIPING WITH ALLOWANCE FOR FUTURE ADDITION.
4. PROVIDE ADDITIONAL SPRINKLER HEADS TO ALLOW FOR COVERAGE BELOW CLOUD CEILINGS. INSTALL WITH DEFLECTORS SPACED EVENLY BETWEEN GAPS OF CLOUD PANELS. SPRINKLER DEFLECTOR TO BE INSTALLED ABOVE BOTTOM PLANE OF CLOUD PANELS.



1 SECOND FLOOR PLAN - FIRE PROTECTION
M3 03
SCALE: 1 : 200



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SECOND FLOOR PLAN - FIRE PROTECTION

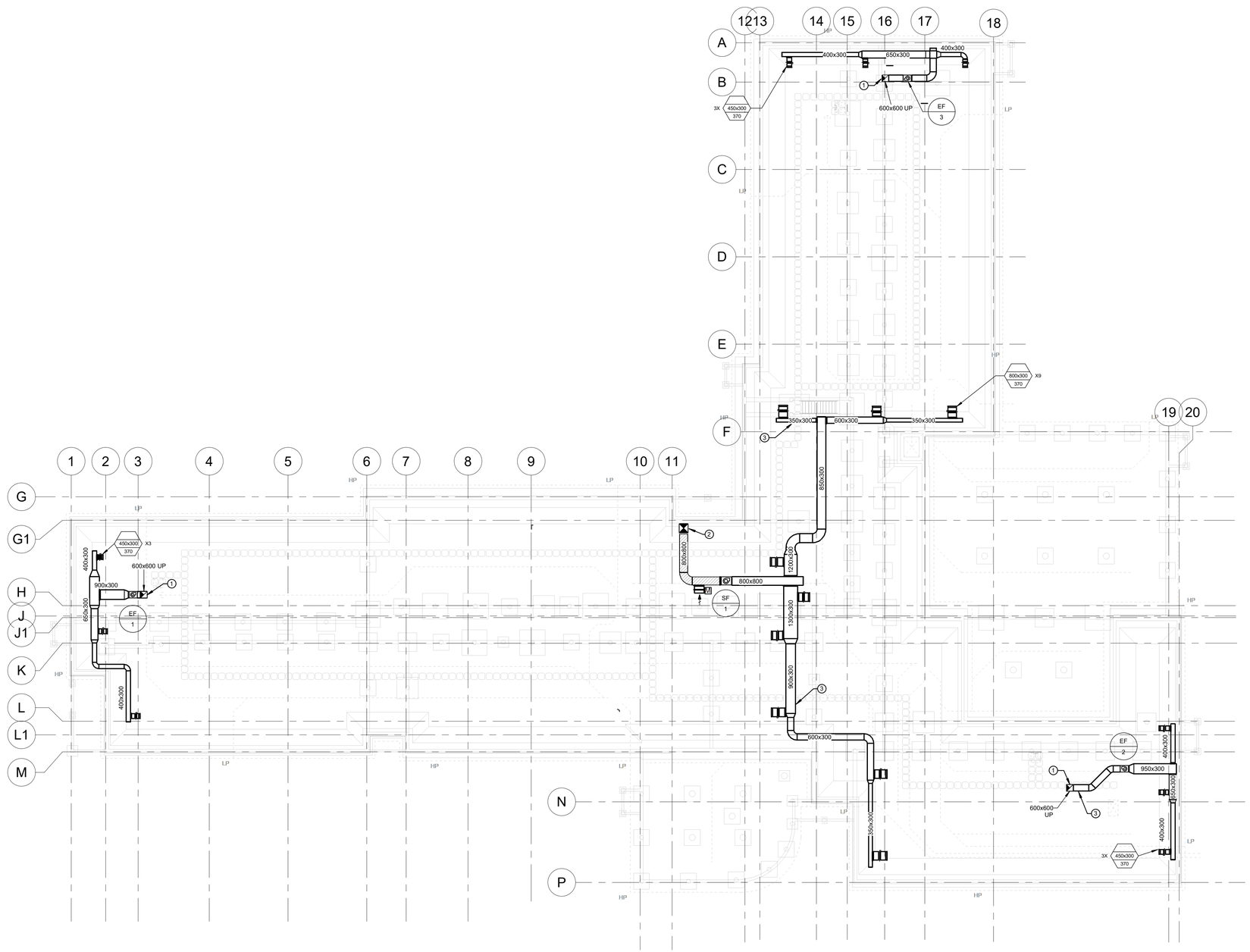
drawn by: **Author**
approved by: **Approver**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

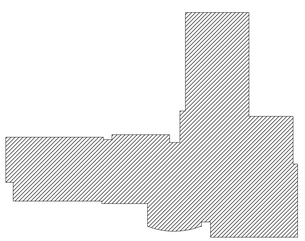
M3 03

KEY NOTES (##)

1. 600x600 CRAWLSPACE EXHAUST RISER ROUTED UP THROUGH SHAFT ABOVE.
2. 800x800 CRAWLSPACE VENTILATION RISER ROUTED FROM SHAFT ABOVE. DUCT TO BE FULLY LINED UP TO FAN INTAKE
3. WHERE CRAWLSPACE VENTILATION DUCTWORK CROSSES WALKWAY ENSURE DUCTWORK IS ROUTED AT HIGHEST LEVEL POSSIBLE TO PROVIDE MAXIMUM CLEARANCE. TYPICAL.



1 M4 01 FOUNDATION LEVEL - VENTILATION
SCALE: 1 : 200



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drawing information

FOUNDATION FLOOR PLAN - VENTILATION

drawn by: **Author**
approved by: **Approver**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

M4 01

REVIT PROJECT SERVER PATH
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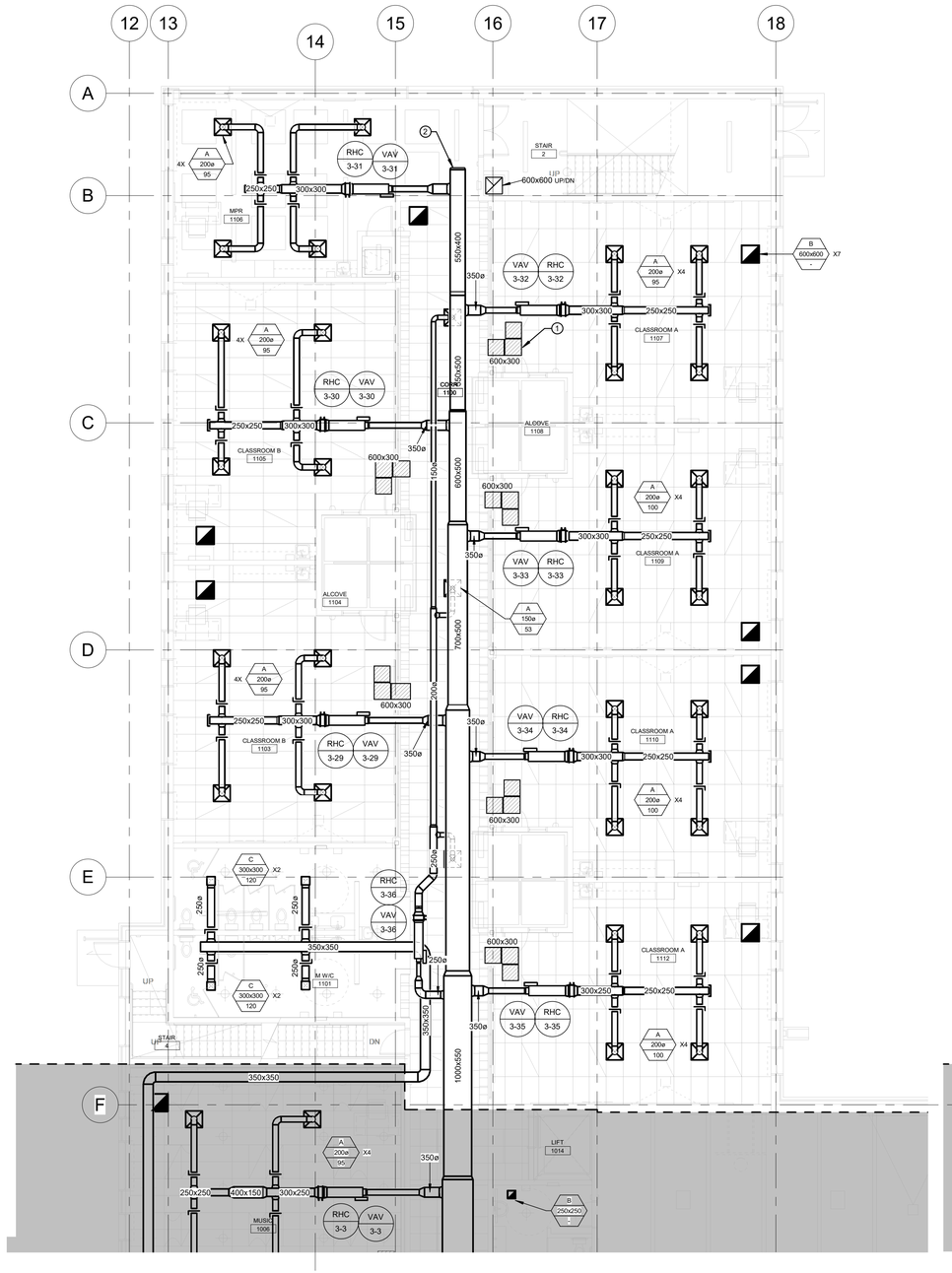
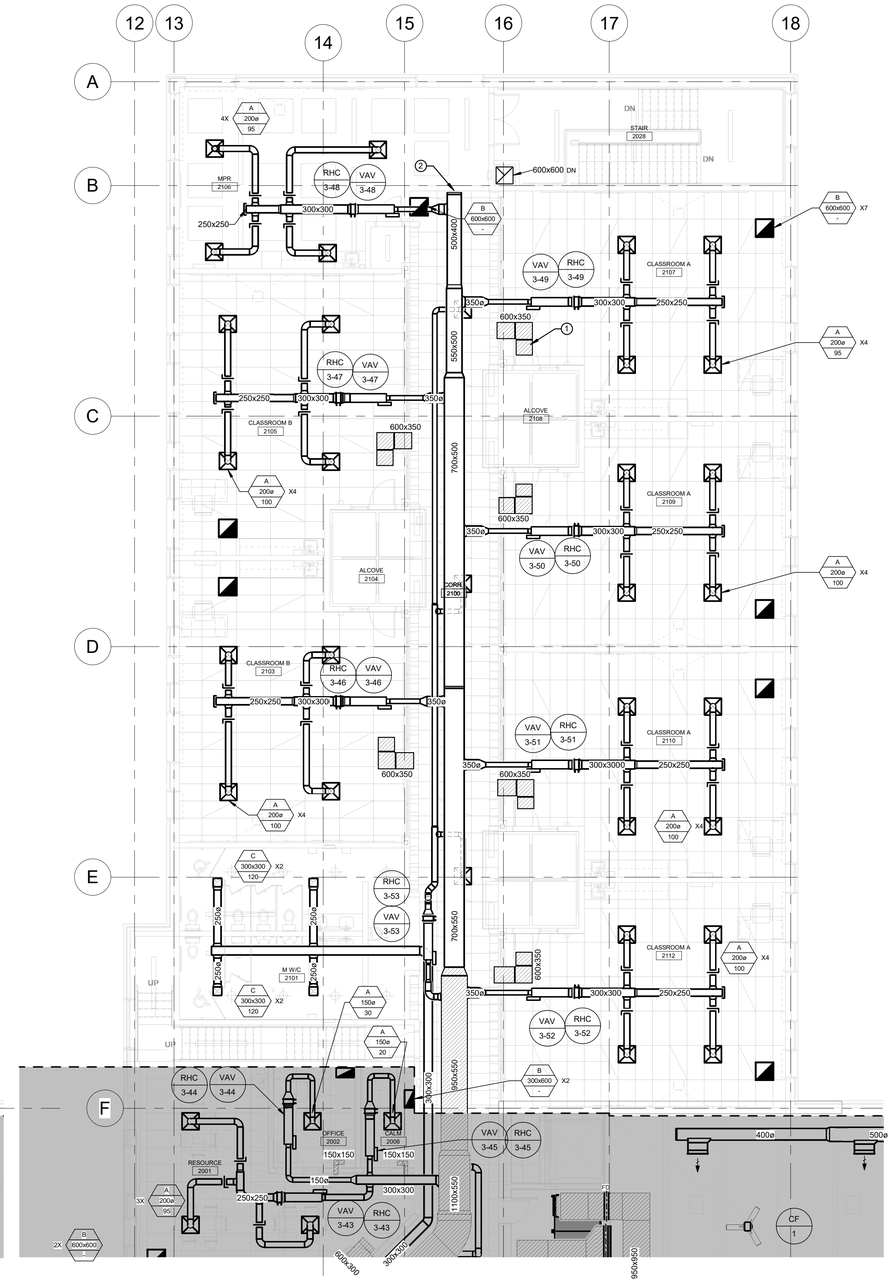
KEY NOTES (##)

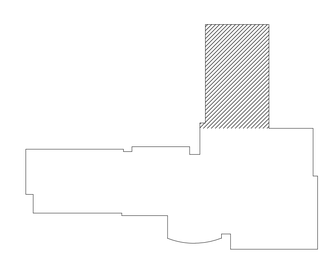
1. ACOUSTICALLY LINED TRANSFER DUCT LOCATED ABOVE CEILING. (TYP.)
2. VENTILATION MAIN TAKE-OFF CAPPED FOR FUTURE USE.



1 M4 02 MAIN FLOOR PLAN - VENTILATION - EAST WING
SCALE: 1 : 100



2 M4 02 SECOND FLOOR PLAN - VENTILATION - EAST WING
SCALE: 1 : 100



KEYPLAN

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23.03.24
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Member 23075
REGISTERED PROFESSIONAL ENGINEER

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school division

Hanover School Division
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Steinbach, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
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drawing information

MAIN & SECOND FLOOR PLAN - VENTILATION - EAST WING

drawn by: **JR**
approved by: **JLG**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

M4 02

REVIT PROJECT SERVER PATH

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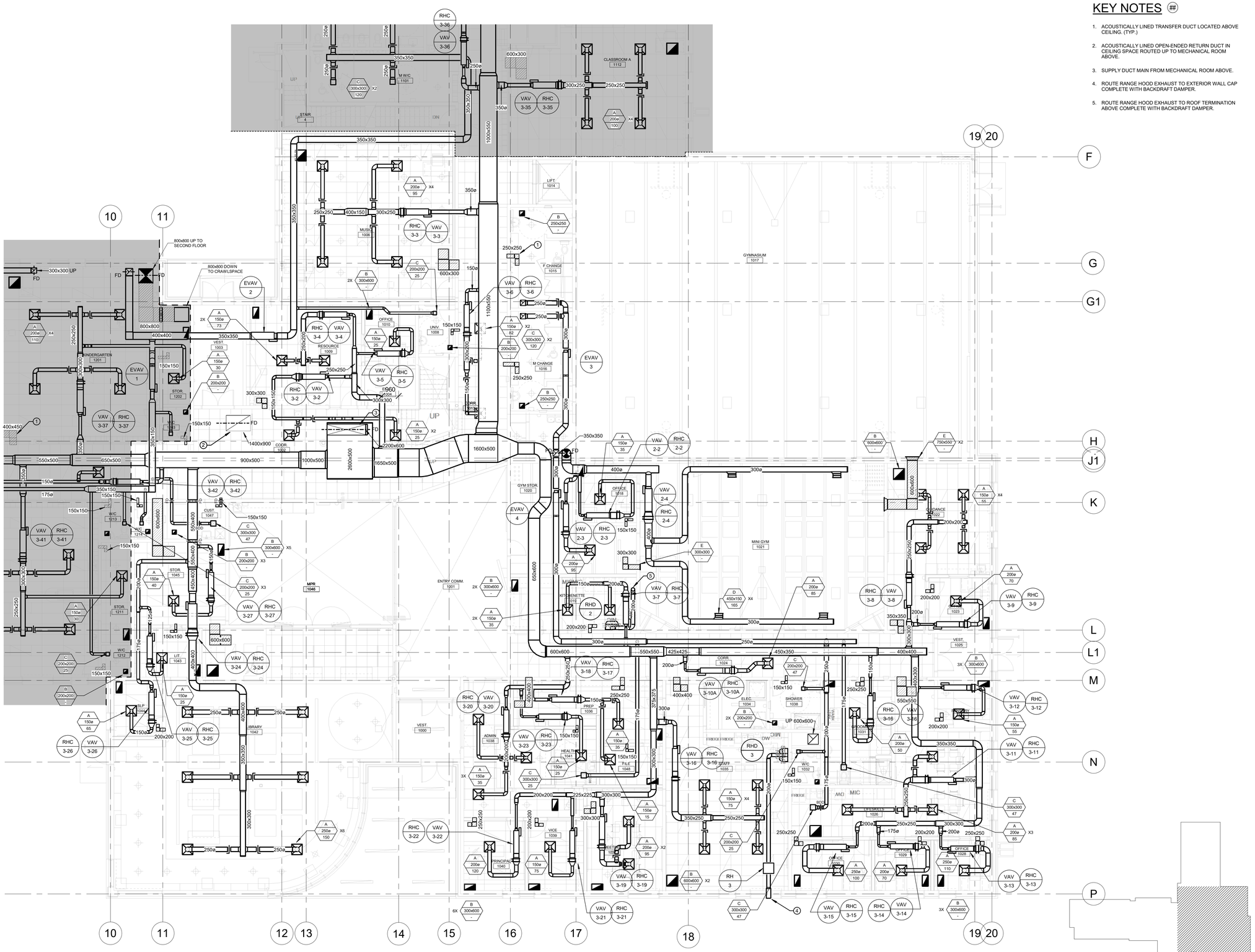
KEY NOTES (##)

1. ACOUSTICALLY LINED TRANSFER DUCT LOCATED ABOVE CEILING. (TYP.)
2. ACOUSTICALLY LINED OPEN-ENDED RETURN DUCT IN CEILING SPACE ROUTED UP TO MECHANICAL ROOM ABOVE.
3. SUPPLY DUCT MAIN FROM MECHANICAL ROOM ABOVE.
4. ROUTE RANGE HOOD EXHAUST TO EXTERIOR WALL CAP COMPLETE WITH BACKDRAFT DAMPER.
5. ROUTE RANGE HOOD EXHAUST TO ROOF TERMINATION ABOVE COMPLETE WITH BACKDRAFT DAMPER.



1 / M4 03 MAIN FLOOR PLAN - VENTILATION - CORE SPACES
SCALE: 1 : 100

KEYPLAN

REVIT PROJECT SERVER PATH

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#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

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PROVINCE OF MANITOBA
23-03-24
J.L. GRATTON
Member 23075
REGISTERED PROFESSIONAL ENGINEER

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

school division

Hanover School Division
5 Chrysler Gate
Steinbach, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

drawing information

MAIN FLOOR PLAN - VENTILATION - CORE SPACES

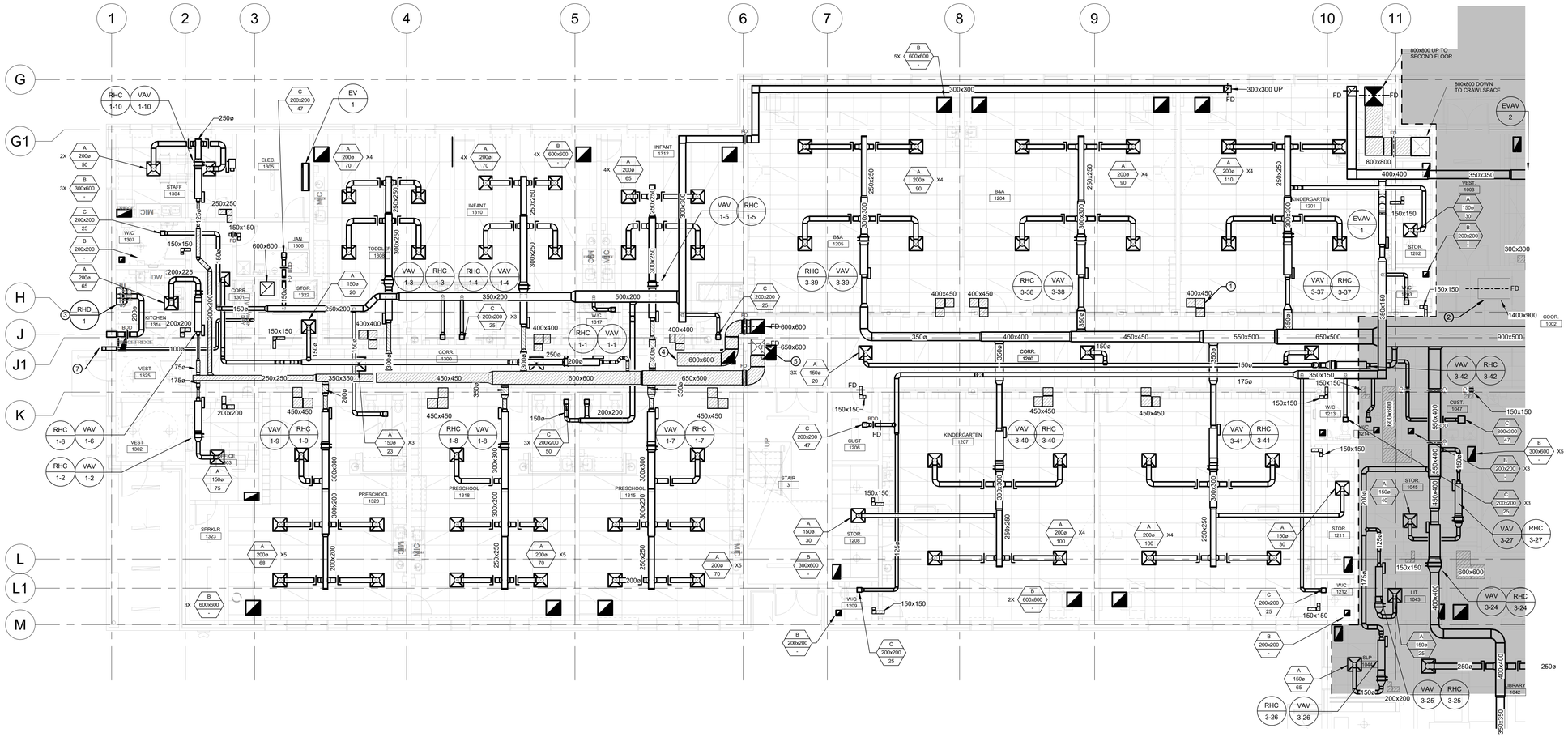
drawn by: **JR**
approved by: **JLG**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

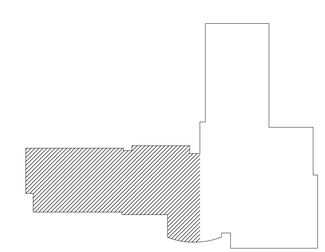
M4 03

KEY NOTES (##)

1. ACOUSTICALLY LINED TRANSFER DUCT LOCATED ABOVE CEILING. (TYP.)
2. ACOUSTICALLY LINED OPEN-ENDED RETURN DUCT IN CEILING SPACE ROUTED UP TO MECHANICAL ROOM ABOVE.
3. ROUTE RANGE HOOD EXHAUST TO EXTERIOR WALL CAP COMPLETE WITH BACKDRAFT DAMPER AND BIRDSCREEN.
4. ACOUSTICALLY LINED OPEN-ENDED RETURN DUCT IN CEILING SPACE ROUTED UP THROUGH SHAFT ABOVE TO SECOND FLOOR CEILING SPACE.
5. SUPPLY DUCT MAIN ROUTED FROM SHAFT ABOVE.
7. PROVIDE PRIME PAINTED HEAVY GAUGE DRYER VENT HOOD C/W BACKDRAFT DAMPER. FINAL PAINTING TO BE PERFORMED BY GENERAL CONTRACTOR ON SITE.



1 M4 04 MAIN FLOOR PLAN - VENTILATION - NORTH WING
SCALE: 1 : 100



KEYPLAN

REVIT PROJECT SERVER PATH

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REGISTERED PROFESSIONAL ENGINEER

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NEW WEST STEINBACH ELEMENTARY SCHOOL
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drawing information

MAIN FLOOR PLAN - VENTILATION - NORTH WING

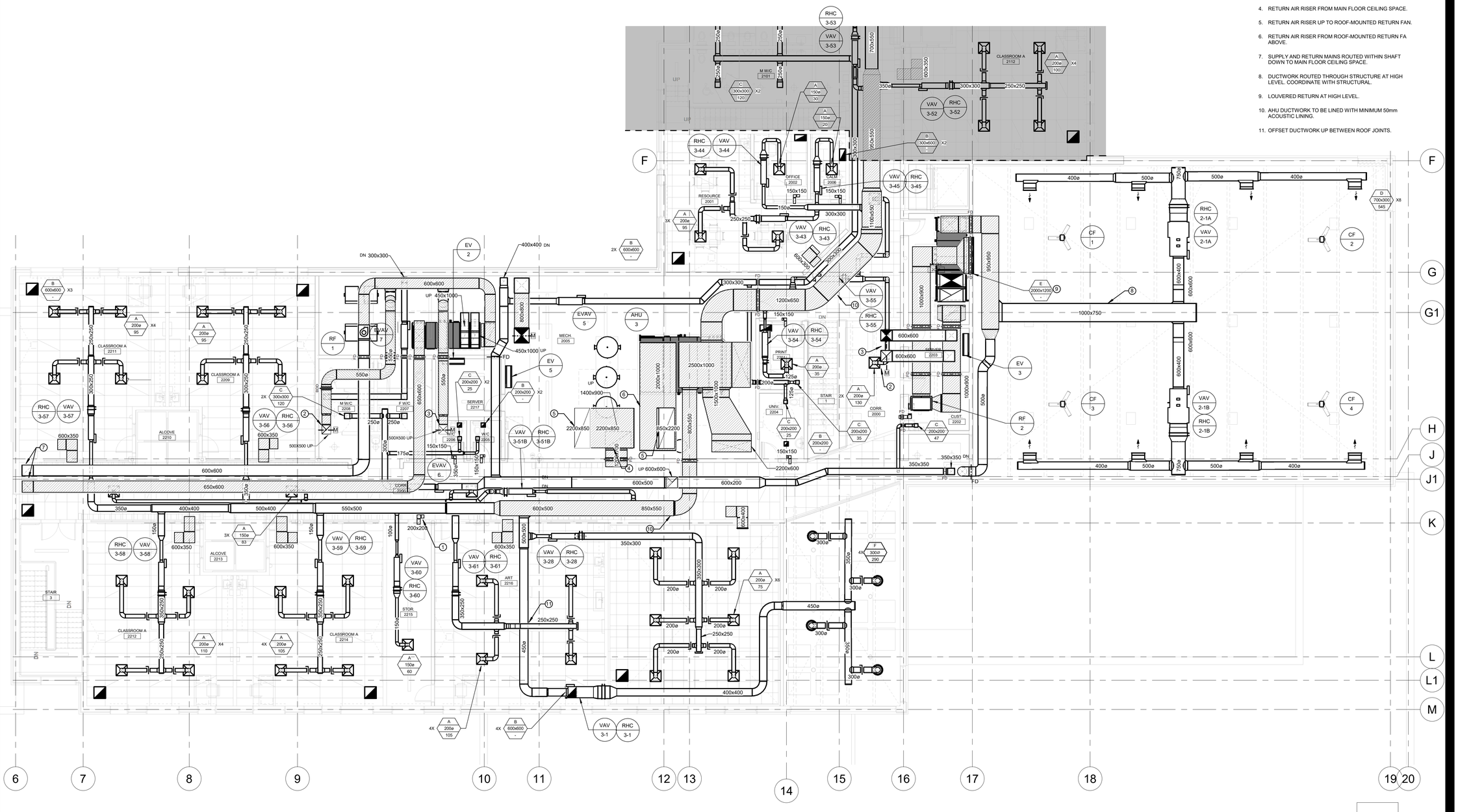
drawn by: **JR**
approved by: **JLG**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

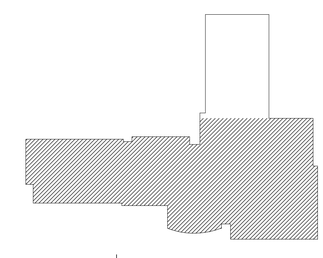
M4 04

KEY NOTES (##)

1. ACOUSTICALLY LINED TRANSFER DUCT LOCATED ABOVE CEILING. (TYP.)
2. EXHAUST AIR UP TO ROOF-MOUNTED ERV ABOVE.
3. FRESH AIR FROM ROOF-MOUNTED ERV ABOVE.
4. RETURN AIR RISER FROM MAIN FLOOR CEILING SPACE.
5. RETURN AIR RISER UP TO ROOF-MOUNTED RETURN FAN.
6. RETURN AIR RISER FROM ROOF-MOUNTED RETURN FA ABOVE.
7. SUPPLY AND RETURN MAINS ROUTED WITHIN SHAFT DOWN TO MAIN FLOOR CEILING SPACE.
8. DUCTWORK ROUTED THROUGH STRUCTURE AT HIGH LEVEL. COORDINATE WITH STRUCTURAL.
9. LOUVERED RETURN AT HIGH LEVEL.
10. AHU DUCTWORK TO BE LINED WITH MINIMUM 50mm ACOUSTIC LINING.
11. OFFSET DUCTWORK UP BETWEEN ROOF JOINTS.



1 M4 05 SECOND FLOOR PLAN - VENTILATION - NORTH WING
SCALE: 1 : 100



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23.03.24
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school division

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drawing information

SECOND FLOOR PLAN - VENTILATION - NORTH WING

drawn by: **JR**
approved by: **JLG**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

M4 05

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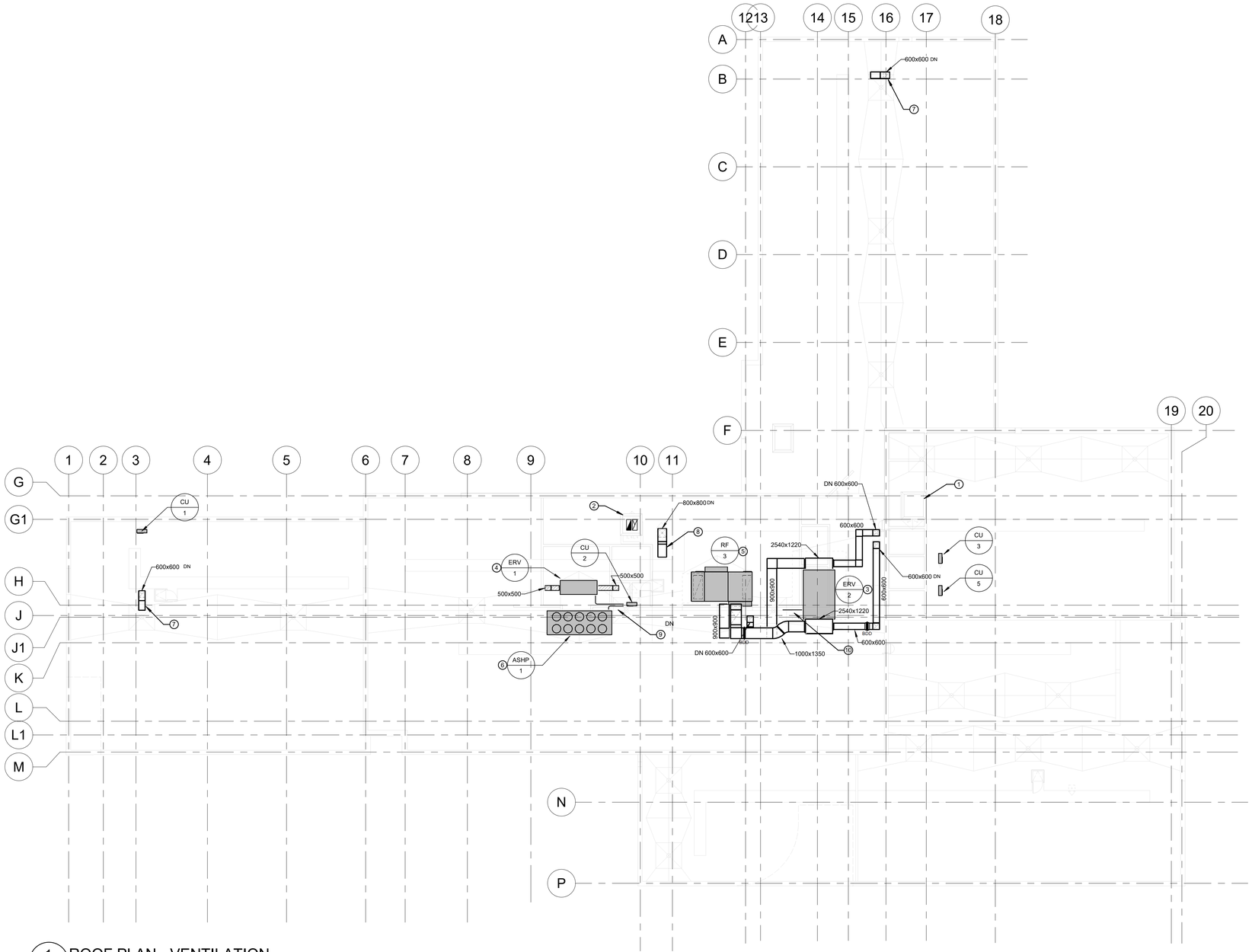
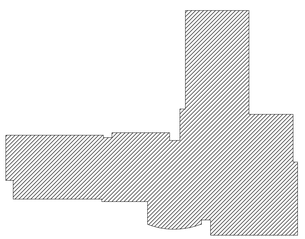


1 M4 06 ROOF PLAN - VENTILATION
SCALE: 1 : 200

KEY NOTES (##)

1. LOUVERED PENTHOUSE SERVING AHU-2. MOUNT ON CURB. COORDINATE REQUIREMENTS. PROVIDE BAFFLES INSIDE PENTHOUSE TO SEPARATE INTAKE AND RELIEF AIRSTREAMS. REFER TO ARCHITECTURAL FOR CURB DETAIL.
2. LOUVERED PENTHOUSE SERVING AHU-1. MOUNT ON CURB. COORDINATE REQUIREMENTS. PROVIDE BAFFLES INSIDE PENTHOUSE TO SEPARATE INTAKE AND RELIEF AIRSTREAMS. REFER TO ARCHITECTURAL FOR CURB DETAIL.
3. ENERGY RECOVERY VENTILATOR SERVING AHU-2 AND AHU-3. MOUNT ON A CONSTRUCTED ROOF CURB. COORDINATE REQUIREMENTS WITH ARCHITECTURAL.
4. ENERGY RECOVERY VENTILATOR SERVING AHU-1. MOUNT ON A CONSTRUCTED ROOF CURB. COORDINATE REQUIREMENTS. COORDINATE REQUIREMENTS WITH ARCHITECTURAL.
5. RETURN FAN SERVING AHU-3 BELOW. MOUNT ON ROOF CURB. COORDINATE REQUIREMENTS. REFER TO ARCHITECTURAL FOR CURB DETAIL.
6. ROOF-MOUNTED AIR SOURCE HEAT PUMP. MOUNT ON CONSTRUCTED ROOF CURB. COORDINATE REQUIREMENTS. REFER TO ARCHITECTURAL.
7. EXHAUST GOOSENECK ROUTED UP FROM CRAWLSPACE BELOW. REFER TO ARCHITECTURAL FOR CONSTRUCTED ROOF CURB DETAILS. PROVIDE BACKDRAFT DAMPER AND BIRDSCREEN.
8. INTAKE GOOSENECK ROUTED UP FROM CRAWLSPACE BELOW. REFER TO ARCHITECTURAL FOR CONSTRUCTED ROOF CURB DETAILS. PROVIDE BACKDRAFT DAMPER AND BIRDSCREEN.
9. PROVIDE 50 MM CONDENSATE DRAINS TO ASHP AND ERV-1 THAT DISCHARGE AT NEARBY ROOF DRAIN. ELECTRICAL TO HEAT TRACE ENTIRE LENGTH OF DRAIN. COORDINATE REQUIREMENTS.
10. PROVIDE 50 MM CONDENSATE DRAN TO ERV-2 THAT DISCHARGES AT NEARBY ROOF DRAIN. ELECTRICAL TO HEAT TRACE ENTIRE LENGTH OF DRAIN. COORDINATE REQUIREMENTS.



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drawing information

ROOF PLAN - VENTILATION

drawn by: **JR**
approved by: **JLG**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

M4 06

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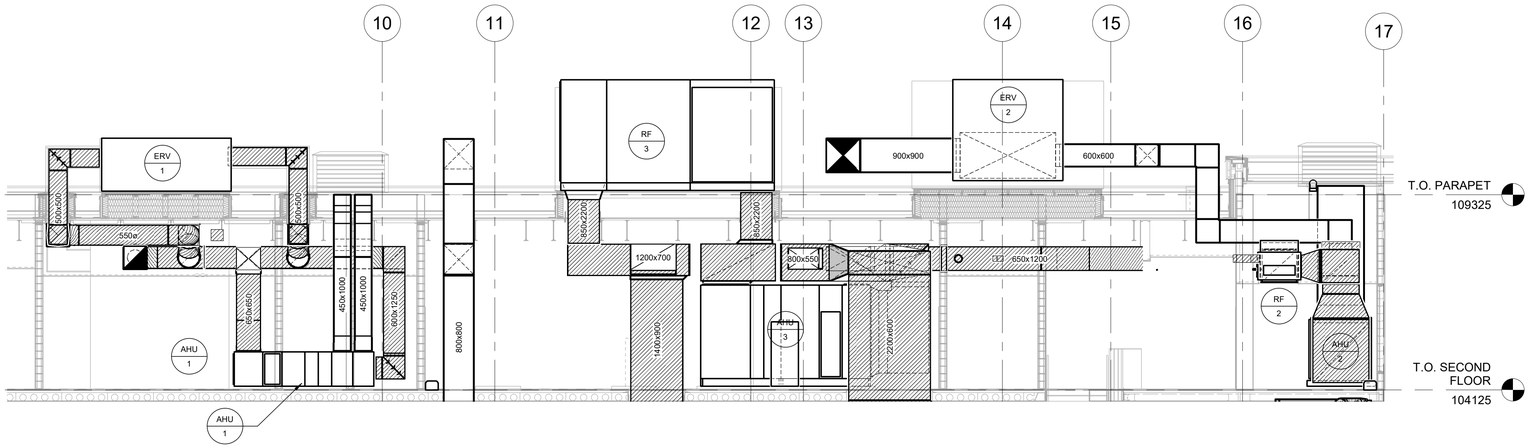
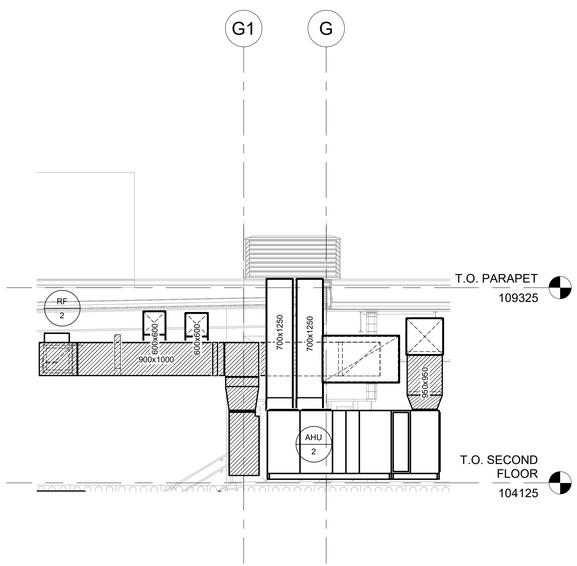
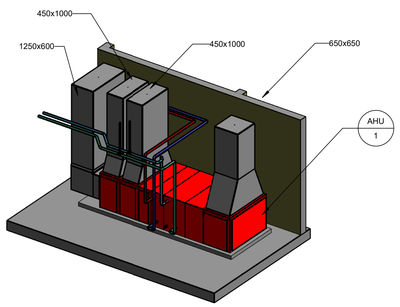


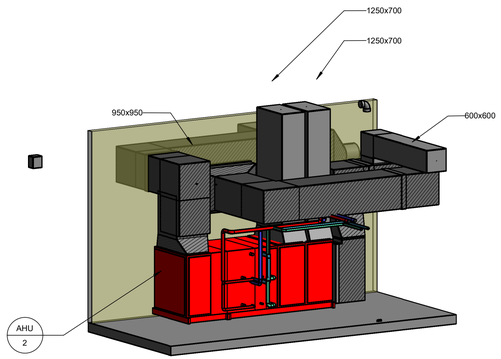
1 M4 07 MECHANICAL ROOM DETAIL SECTION AT MECH 2005 LOOKING EAST
SCALE:1 : 75



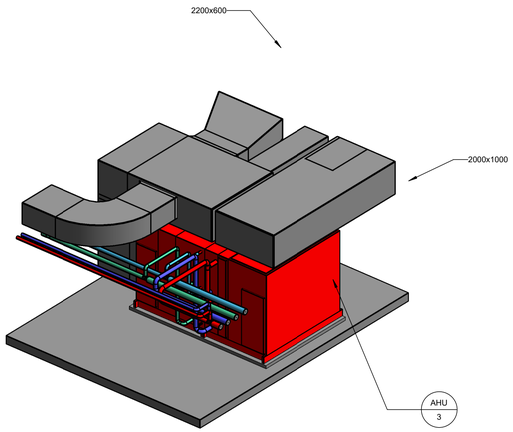
2 M4 07 MECHANICAL ROOM DETAIL SECTION AT MECH LOOKNG NORTH
SCALE:1 : 75



3 M4 07 AHU-1 MECH ROOM DETAIL
SCALE:



4 M4 07 AHU-2 MECH ROOM DETAIL
SCALE:



5 M4 07 AHU-3 MECH ROOM DETAIL
SCALE:

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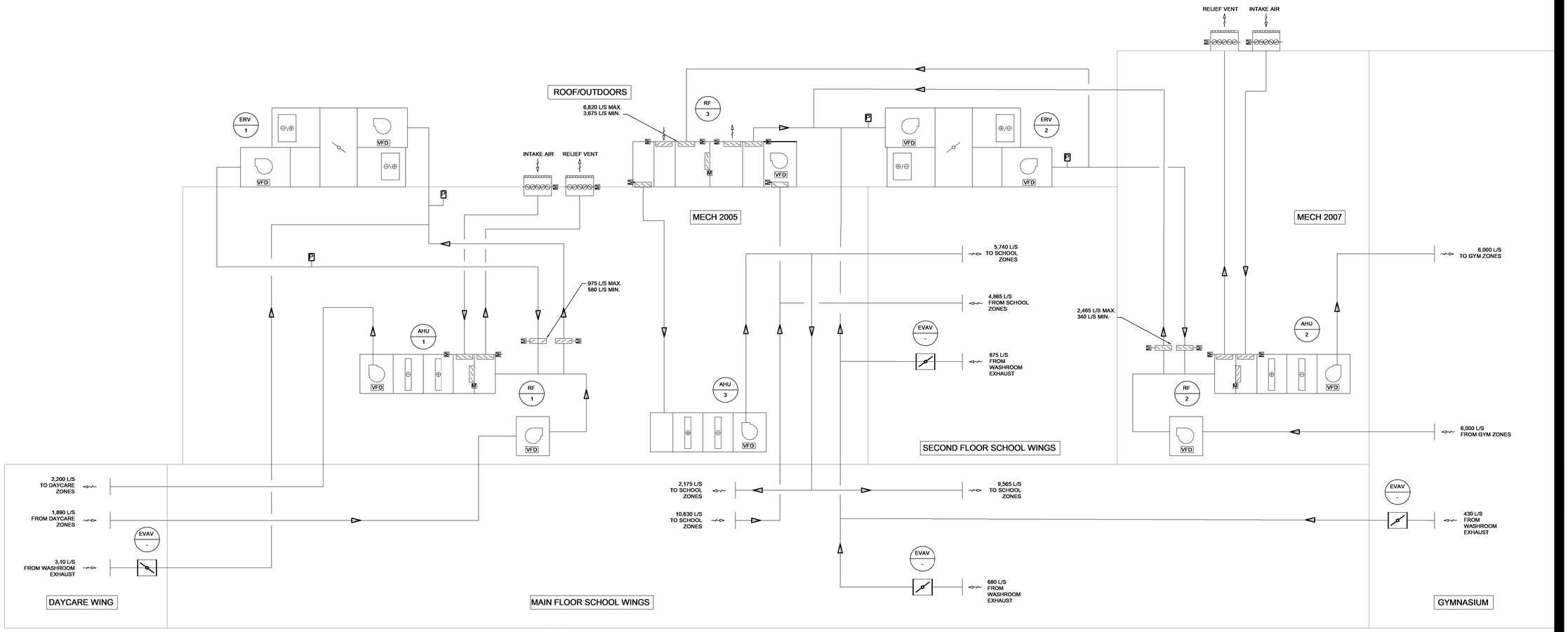
drawing information

VENTILATION - DETAILS AND SECTIONS

drawn by: **Author**
approved by: **Approver**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

M4 07



1 M4 08 VENTILATION SCHEMATIC
SCALE: 1 : 100

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VENTILATION SCHEMATIC

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approved by: **Approver**

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M4 08

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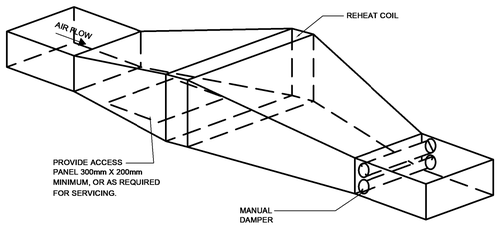
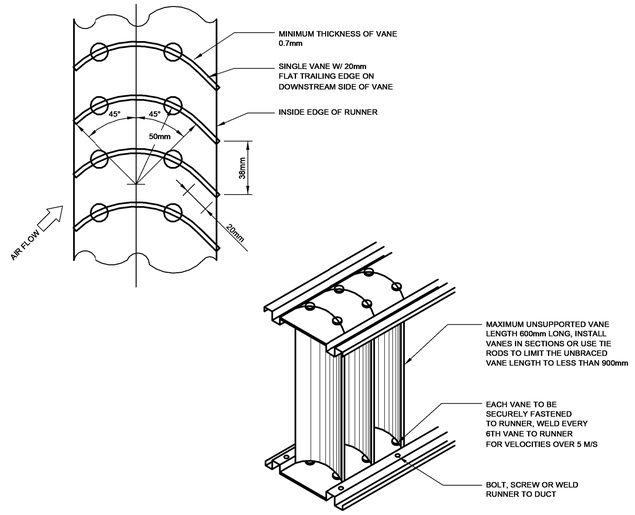
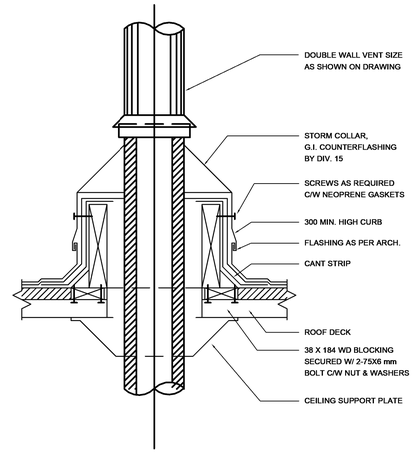


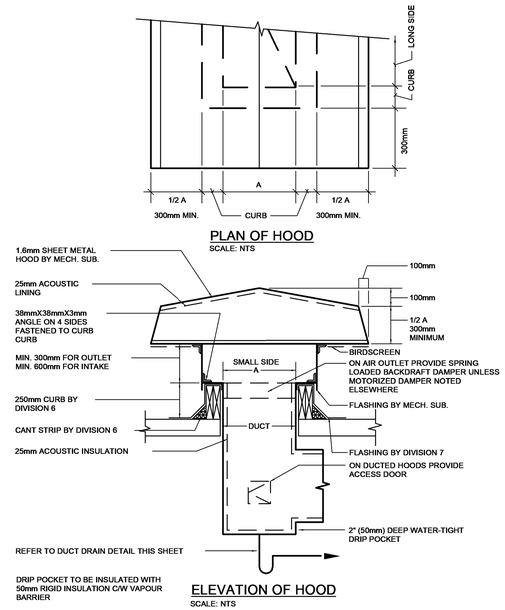
1 M4 09 DETAIL - REHEAT COIL ACCESS DOOR
SCALE: NTS



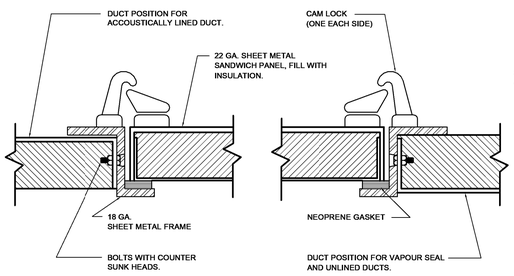
2 M4 09 DETAIL - TURNING VANE CONSTRUCTION
SCALE: NTS



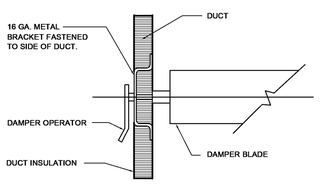
3 M4 09 DETAIL - CHIMNEY THROUGH ROOF
SCALE: NTS



4 M4.09 DETAIL - INLET AIR HOOD DETAIL
SCALE: NTS

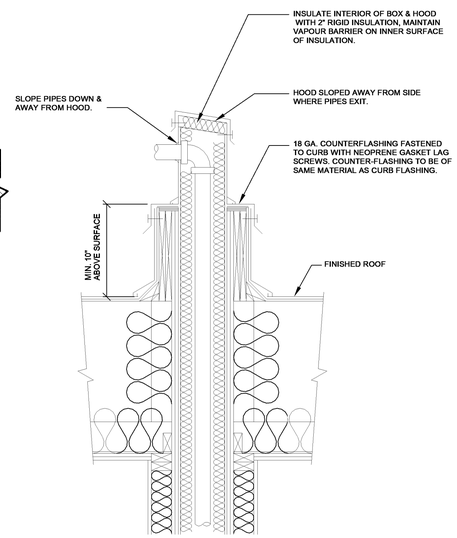


DUCT ACCESS PANEL
NTS

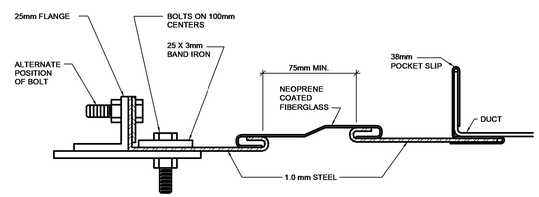


QUADRANT DAMPER OPERATOR BRACKET ON INSULATED DUCT
NTS

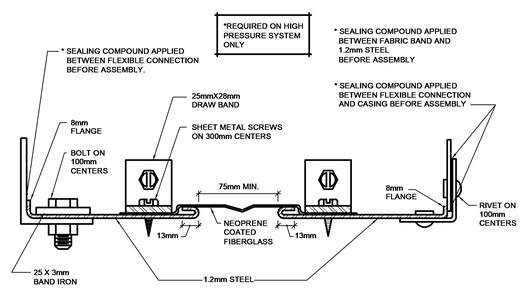
5 M4 09 DETAIL - ACCESS PANEL
SCALE: NTS



6 M4 09 DETAIL - PIPE PENETRATION THROUGH ROOF
SCALE: NTS

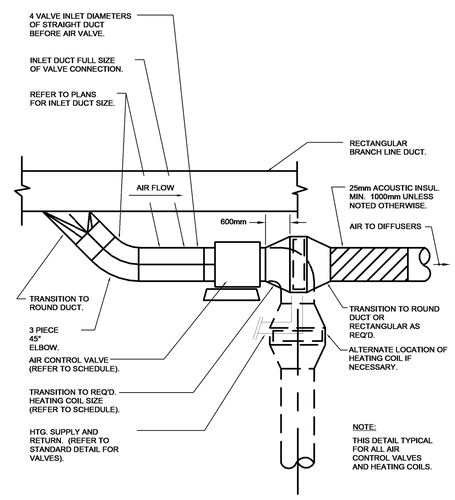


RECTANGULAR CONNECTION
NTS



ROUND CONNECTION
NTS

7 M4 09 DETAIL - FLEX CONNECTION
SCALE: NTS



AIR CONTROL VALVE AND REHEAT COIL
NTS

8 M4.09 AIR CONTROL VALVE AND REHEAT COIL
SCALE: N.T.S.

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VENTILATION DETAILS

drawn by: Author
approved by: Approver

scale: AS NOTED
date issued: 2023.03.24
proj. #: 2021.49
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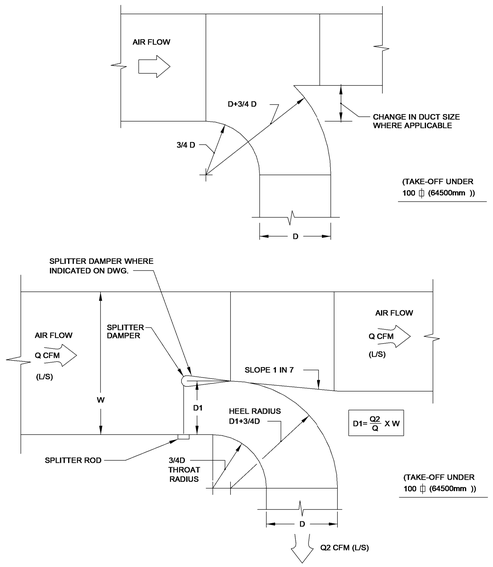
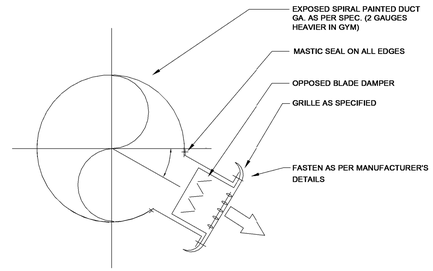
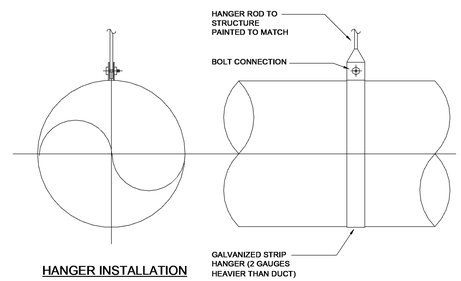
M4 09



1 M4 10 DETAIL - DUCT TAKE-OFFS
SCALE: NTS



DIFFUSER INSTALLATION

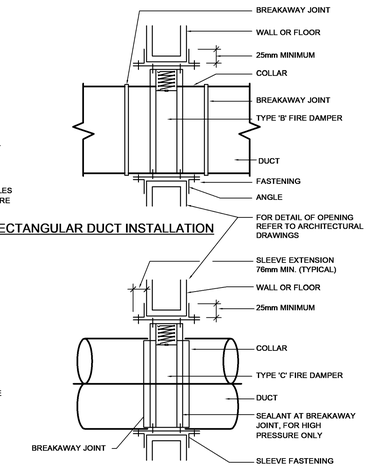


HANGER INSTALLATION

2 M4 10 DETAIL - EXPOSED ROUND DUCT INSTALLATION
SCALE: NTS

NOTES

1. MINIMUM OPENING SIZE TO BE LARGER BY 3mm FOR EACH 305mm OF DAMPER WIDTH OR HEIGHT
2. MAXIMUM OPENING SIZE TO BE 13mm LARGER THAN EACH MIN. DIMENSION.
3. HORIZONTAL CLEARANCE TO BE EQUAL ON BOTH SIDES. VERTICAL CLEARANCE TO BE ALL AT TOP.
4. MOUNTING ANGLES TO BE 13X13X1.6mm (MINIMUM) ON DAMPER SIDE INCREASE ANGLES PROPORTIONATELY SO THAT THERE WILL BE A MINIMUM OF 25mm OVERLAP ON THE PARTITION
5. ATTACH ANGLES WITH 19mm #10 SHEET METAL SCREWS ON 305mm CENTERS OR 6mm #20 BOLTS AND NUTS ON 305mm CENTERS
6. DAMPER BLADES TO BE OUT OF AIR STREAM
7. NEITHER ANGLES OR DAMPER TO BE FASTENED TO WALL
8. BREAKAWAY JOINT TO BE PLAIN "S" SLIP OR AS APPROVED BY ENGINEER
9. SLEEVE THICKNESS MAY BE SAME AS DUCT
10. HORIZONTAL DAMPERS TO BE SPRING LOADED

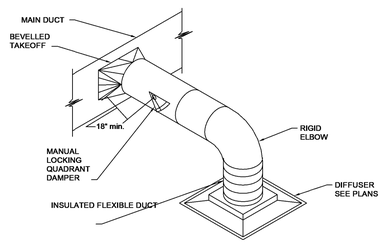


RECTANGULAR DUCT INSTALLATION

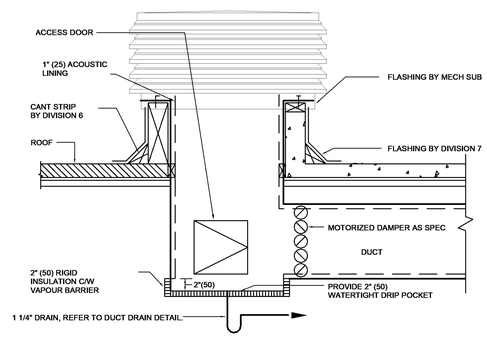
ROUND DUCT INSTALLATION

(REFER TO ENCLOSURE DETAIL FOR EXPOSED DUCTWORK)

3 M4 10 HORIZONTAL AND/OR VERTICAL FIRE DAMPER INSTALLATION
SCALE: NTS



4 M4 10 DETAIL - TYPICAL BRANCH DUCT
SCALE: NTS



NOTES

1. LOUVERED PENTHOUSES CAN BE MOUNTED ON EITHER WOOD OR CONCRETE ROOF AS SHOWN ON DRAWING

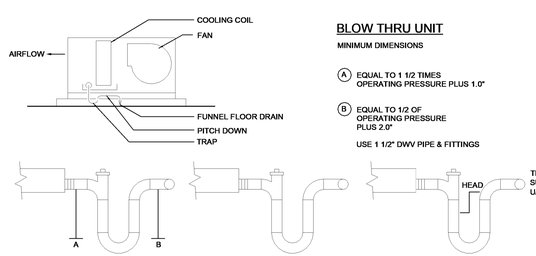
DRAW THRU UNIT

MINIMUM DIMENSIONS

(A) EQUAL TO 1 1/2 TIMES OPERATING SUCTION PLUS 2.0"

(B) EQUAL TO 1/2 OF OPERATING SUCTION PLUS 1.0"

USE 1 1/2" DWV PIPE & FITTINGS



BLOW THRU UNIT

MINIMUM DIMENSIONS

(A) EQUAL TO 1 1/2 TIMES OPERATING PRESSURE PLUS 1.0"

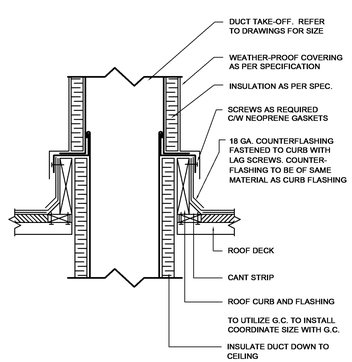
(B) EQUAL TO 1/2 OF OPERATING PRESSURE PLUS 2.0"

USE 1 1/2" DWV PIPE & FITTINGS

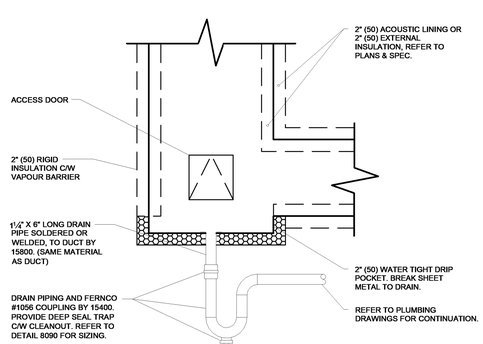
NOTE:

THE TRAP IS CONSTRUCTED TO HOLD A HEAD OF WATER, THE WEIGHT OF WHICH EQUALS THE PRESSURE DIFFERENCE THAT EXISTS BETWEEN THE COIL ON ONE SIDE AND THE ATMOSPHERE ON THE OTHER. WHEN THE FAN IS STARTED, THE PRESSURE WITHIN THE UNIT IS DRAWN DOWN, CAUSING THE WATER WITHIN THE TRAP TO RISE IN THE VERTICAL PIPING. THIS PRODUCES A WATER COLUMN OF SUFFICIENT HEIGHT TO BALANCE THE PRESSURE DIFFERENCE. ONCE THE WATER COLUMN IS ESTABLISHED, ADDITIONAL CONDENSATE SIMPLY FILLS AND OVERFLOWS THE TRAP ON ITS WAY TO THE DRAIN.

7 M4.10 DEEP SEAL TRAP SCHEDULE
SCALE: N.T.S.

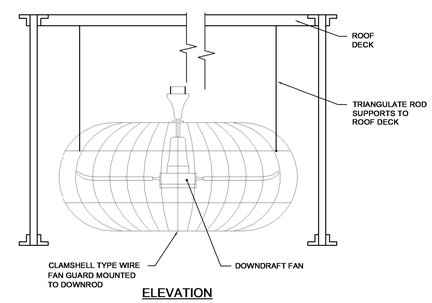


5 M4 10 DETAIL - DUCT PENETRATION THROUGH ROOF
SCALE: NTS

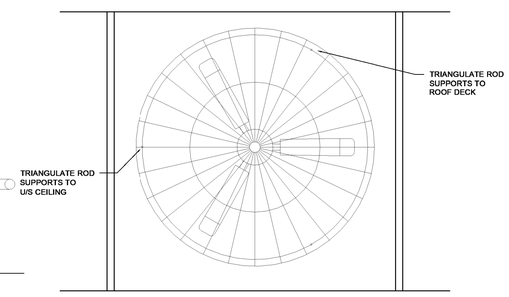


DUCT DRAIN DETAIL
NTS

6 M4.10 LOUVERED PENTHOUSE DETAIL
SCALE: N.T.S.



ELEVATION



PLAN

8 M4 10 DOWNDRAFT FAN GUARD MOUNTING DETAIL
SCALE: NTS

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1	2023.03.24	ISSUED FOR CONSTRUCTION

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PROVINCE OF MANITOBA 23.03.24 J.L. GRATTON Member 23075 REGISTERED PROFESSIONAL ENGINEER

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drawing information

VENTILATION DETAILS

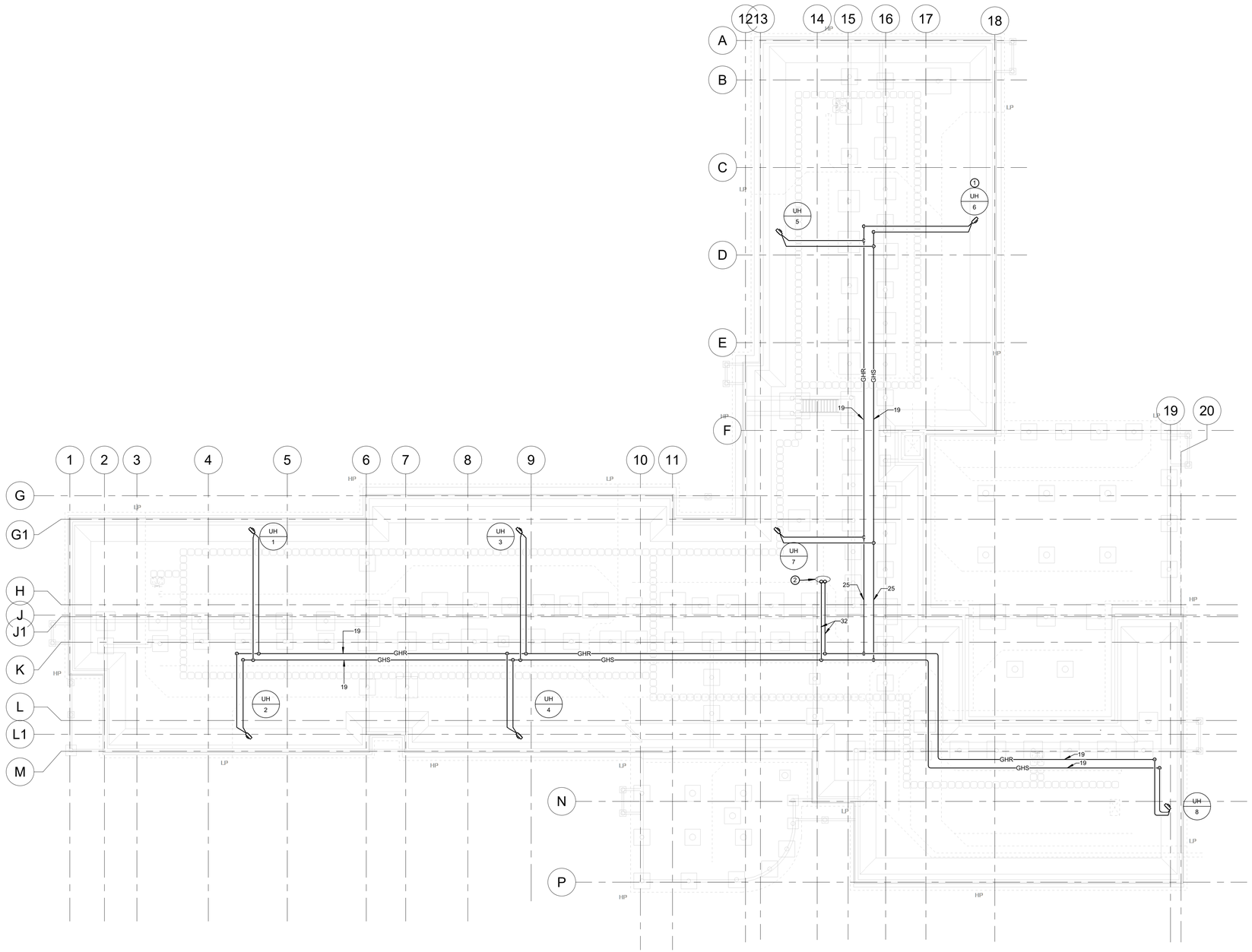
drawn by: Author
approved by: Approver

scale: AS NOTED
date issued: 2023.03.24
proj. #: 2021.49
rev. #: R-0

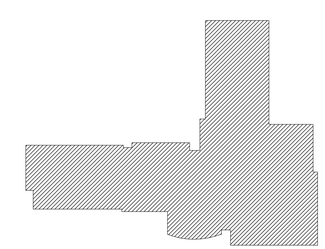
M4 10

KEY NOTES (##)

1. HYDRONIC UNIT HEATER (TYP.)
2. HYDRONIC MAINS FROM ABOVE.



1 / M5 01 FOUNDATION LEVEL - HYDRONIC
SCALE: 1 : 200



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FOUNDATION PLAN - HYDRONIC

drawn by: **JR**
approved by: **JLG**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

M5 01

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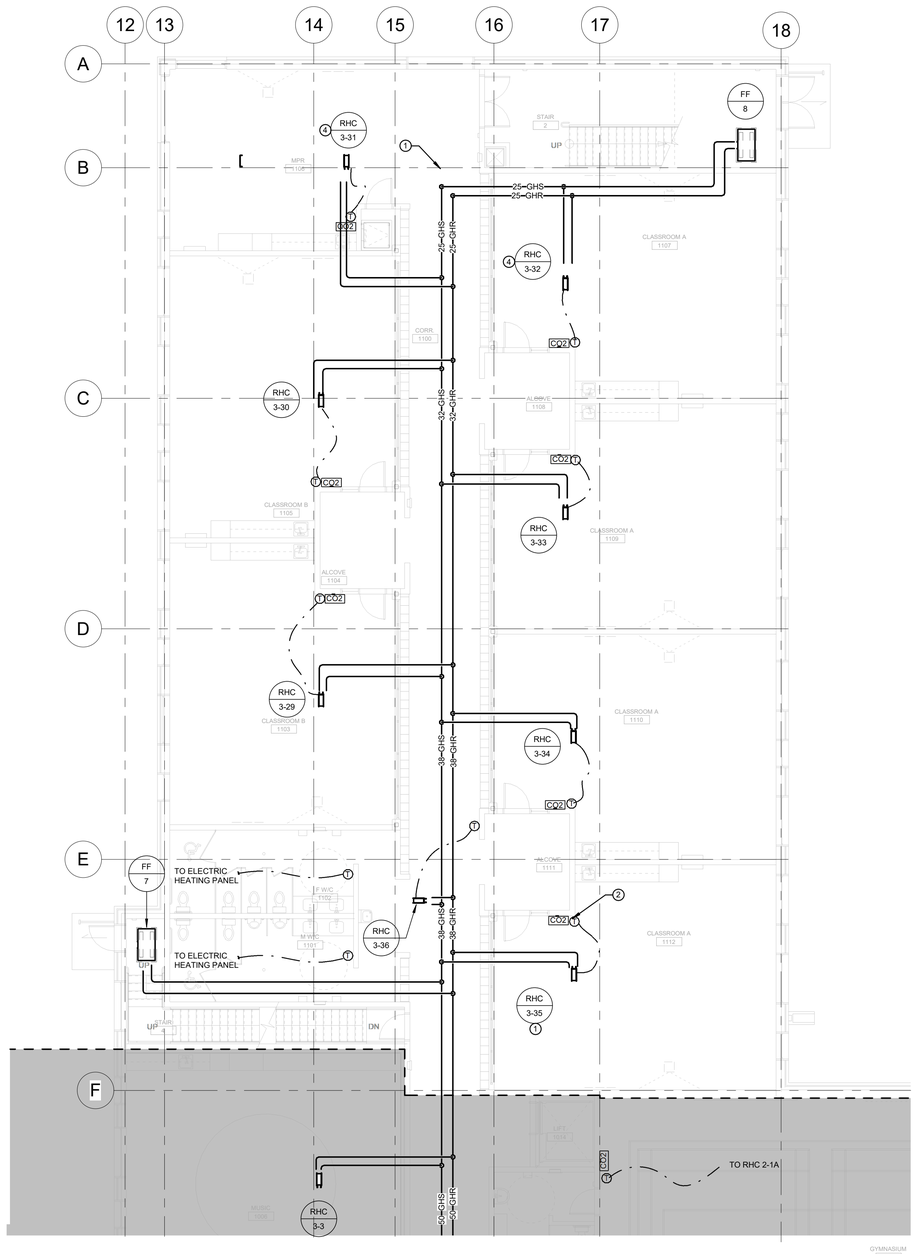
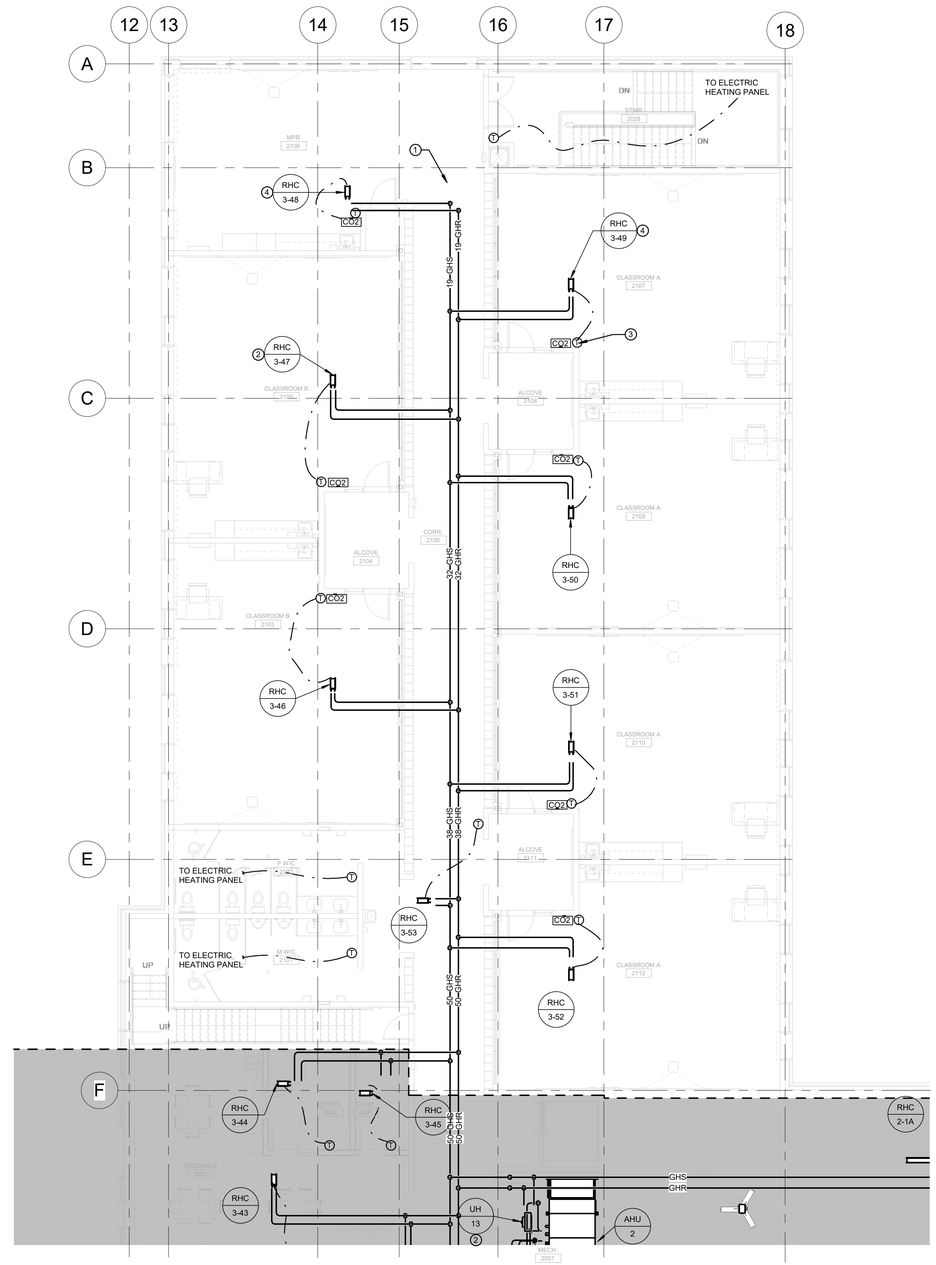
KEY NOTES (##)

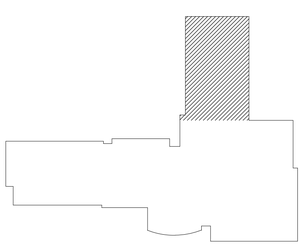
1. HYDRONIC MAIN TAKE-OFFS CAPPED FOR FUTURE USE.
2. HYDRONIC REHEAT COIL. REFER TO REHEAT COIL PIPING DETAIL. (TYP.)
3. WALL MOUNTED DDC THERMOSTAT. REFER TO CONTROLS SPECIFICATION. (TYP.)
4. PROVIDE THREE-WAY VALVE CONTROL ON END OF LINE HYDRONIC UNITS. REFER TO REHEAT COIL PIPING DETAIL. (TYP.)



1 M5 02 MAIN FLOOR PLAN - HYDRONIC - EAST WING
SCALE: 1 : 100



2 M5 02 SECOND FLOOR PLAN - HYDRONIC - EAST WING
SCALE: 1 : 100



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23-03-24
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MAIN & SECOND FLOOR PLAN - HYDRONIC - EAST WING

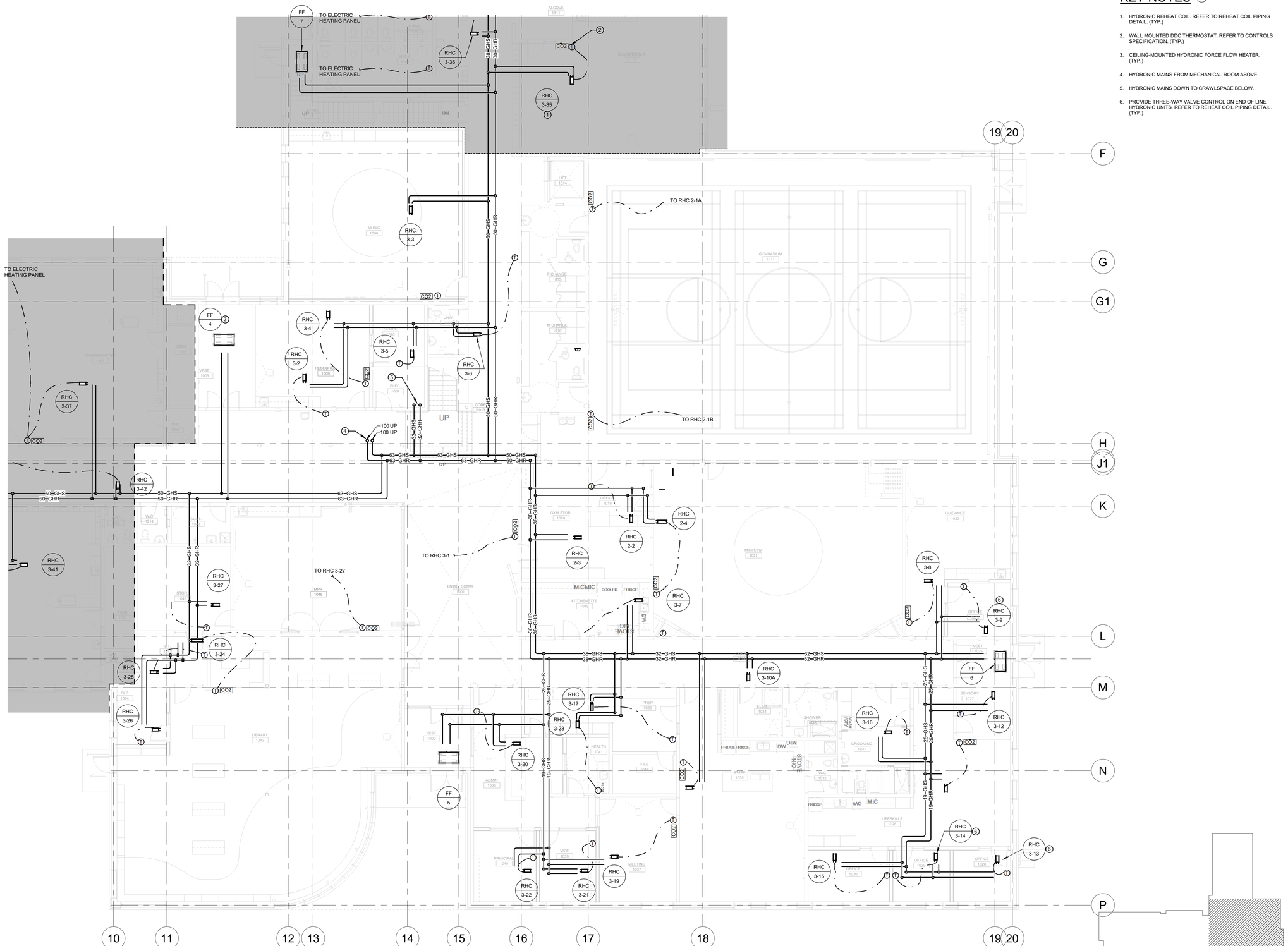
drawn by: **JR**
approved by: **JLG**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

M5 02

KEY NOTES (#)

1. HYDRONIC REHEAT COIL. REFER TO REHEAT COIL PIPING DETAIL. (TYP.)
2. WALL MOUNTED DDC THERMOSTAT. REFER TO CONTROLS SPECIFICATION. (TYP.)
3. CEILING-MOUNTED HYDRONIC FORCE FLOW HEATER. (TYP.)
4. HYDRONIC MAINS FROM MECHANICAL ROOM ABOVE.
5. HYDRONIC MAINS DOWN TO CRAWLSPACE BELOW.
6. PROVIDE THREE-WAY VALVE CONTROL ON END OF LINE HYDRONIC UNITS. REFER TO REHEAT COIL PIPING DETAIL. (TYP.)



1 M5 03 MAIN FLOOR PLAN - HYDRONIC - CORE SPACES
SCALE: 1 : 100

KEYPLAN

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MAIN FLOOR PLAN - HYDRONIC - CORE SPACES

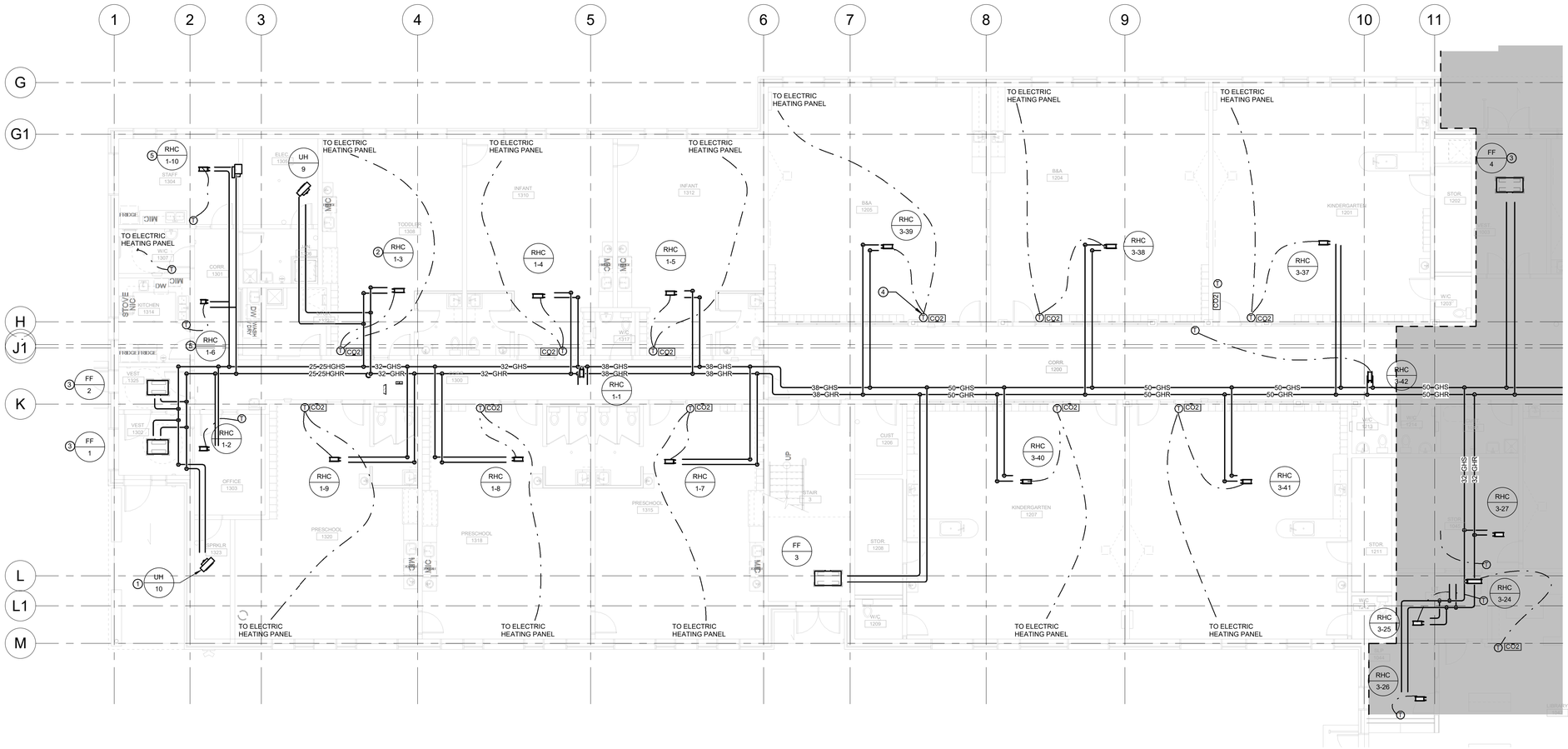
drawn by: **JR**
approved by: **JLG**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

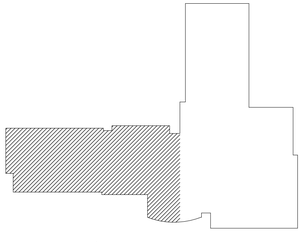
M5 03

KEY NOTES (##)

1. HYDRONIC UNIT HEATER (TYP.)
2. HYDRONIC REHEAT COIL. REFER TO REHEAT COIL PIPING DETAIL. (TYP.)
3. CEILING-MOUNTED HYDRONIC FORCE FLOW HEATER. (TYP.)
4. WALL MOUNTED DDC THERMOSTAT. REFER TO CONTROLS SPECIFICATION. (TYP.)
5. PROVIDE THREE-WAY VALVE CONTROL ON END OF LINE HYDRONIC UNITS. REFER TO REHEAT COIL PIPING DETAIL. (TYP.)



1 MAIN FLOOR PLAN - HYDRONIC - NORTH WING
M5 04
SCALE: 1 : 100



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MAIN FLOOR PLAN - HYDRONIC - NORTH WING

drawn by: **JR**
approved by: **JLG**

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proj. #: **2021.49**
rev. #: **R-0**

M5 04

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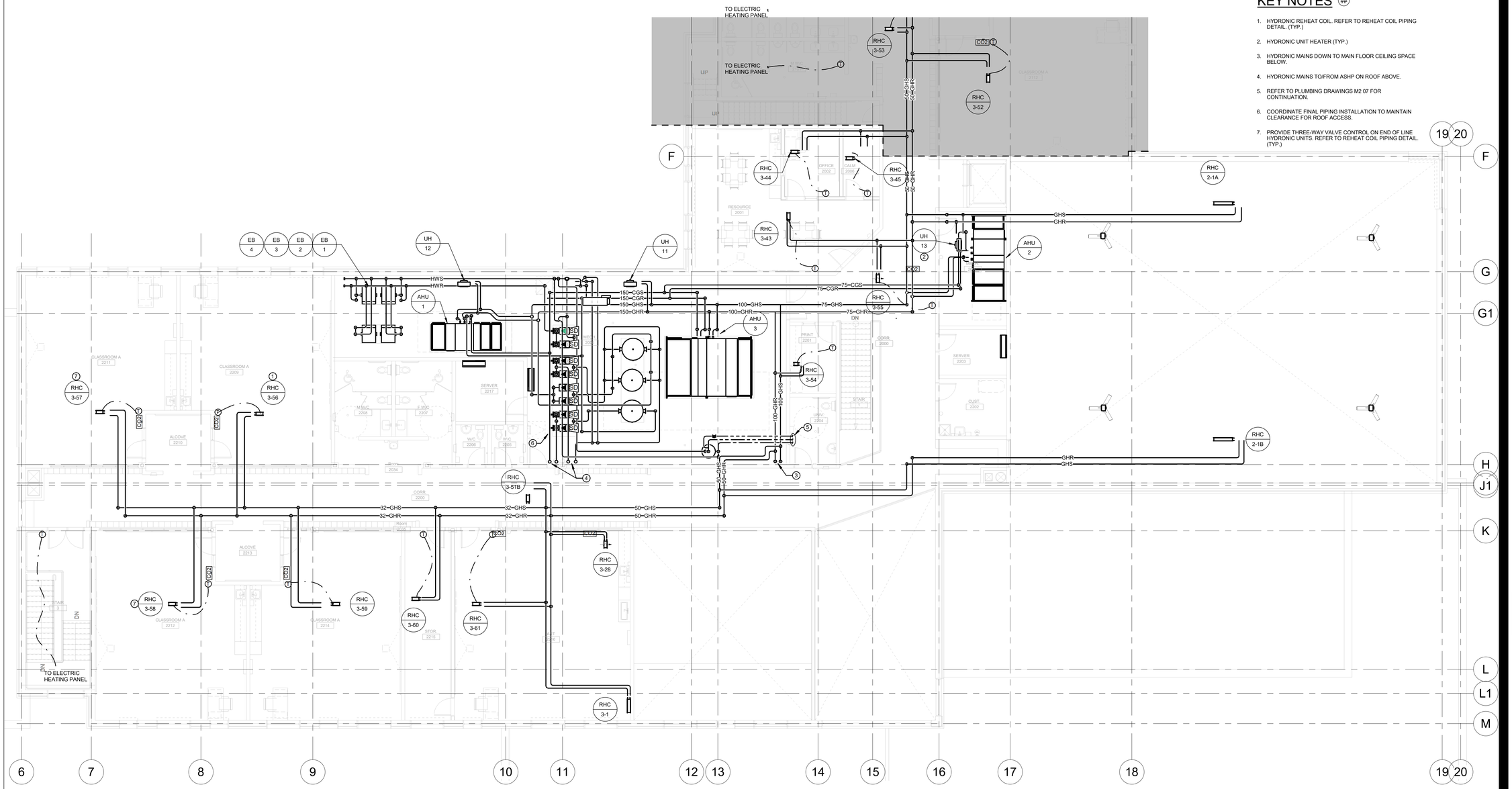
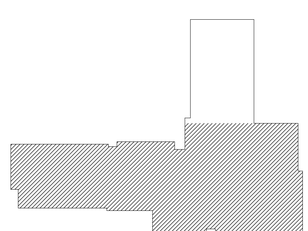


1 M5 05 SECOND FLOOR PLAN - HYDRONIC - NORTH WING

SCALE:1 : 100

KEY NOTES (##)

1. HYDRONIC REHEAT COIL. REFER TO REHEAT COIL PIPING DETAIL. (TYP.)
2. HYDRONIC UNIT HEATER (TYP.)
3. HYDRONIC MAINS DOWN TO MAIN FLOOR CEILING SPACE BELOW.
4. HYDRONIC MAINS TO/FROM ASHP ON ROOF ABOVE.
5. REFER TO PLUMBING DRAWINGS M2 07 FOR CONTINUATION.
6. COORDINATE FINAL PIPING INSTALLATION TO MAINTAIN CLEARANCE FOR ROOF ACCESS.
7. PROVIDE THREE-WAY VALVE CONTROL ON END OF LINE HYDRONIC UNITS. REFER TO REHEAT COIL PIPING DETAIL. (TYP.)



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SECOND FLOOR PLAN - HYDRONIC - NORTH WING

drawn by: **JR**
approved by: **JLG**

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proj. #: **2021.49**
rev. #: **R-0**

M5 05

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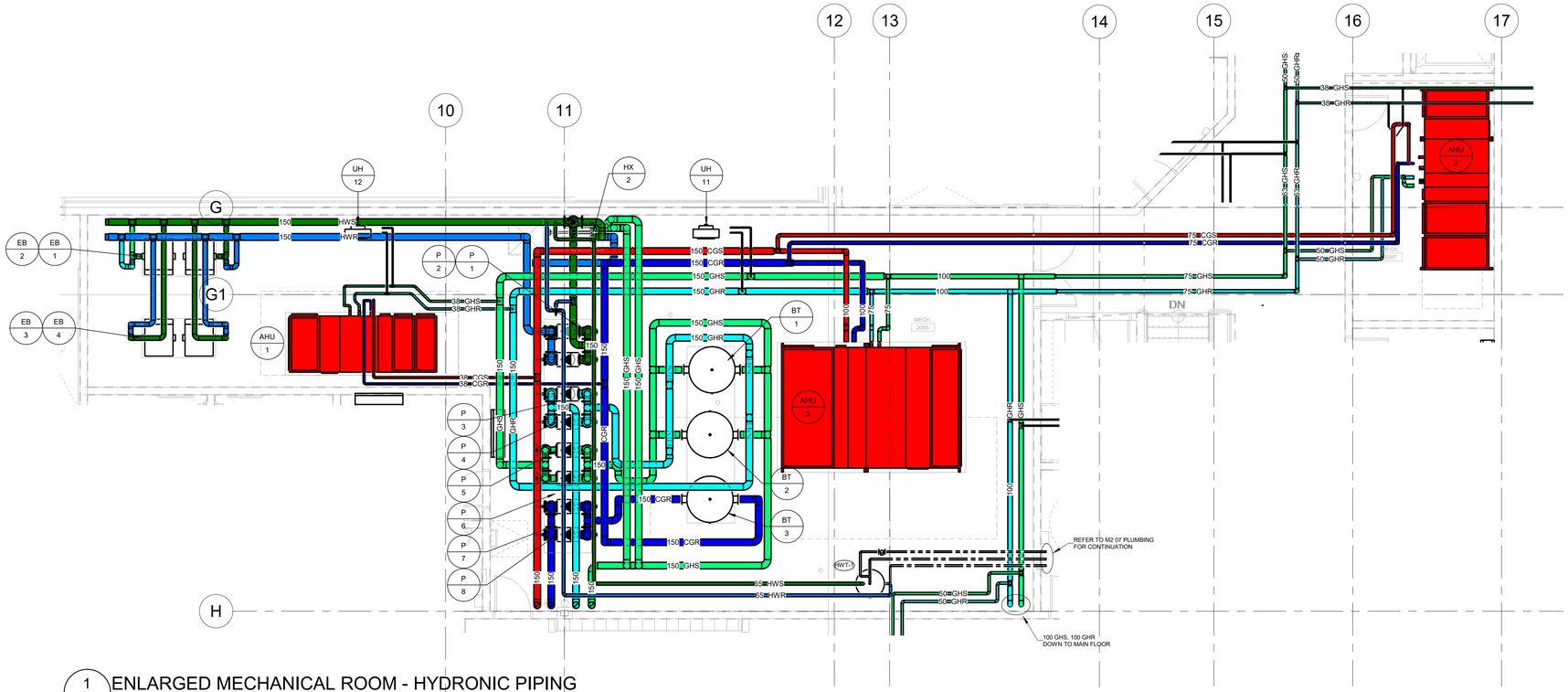
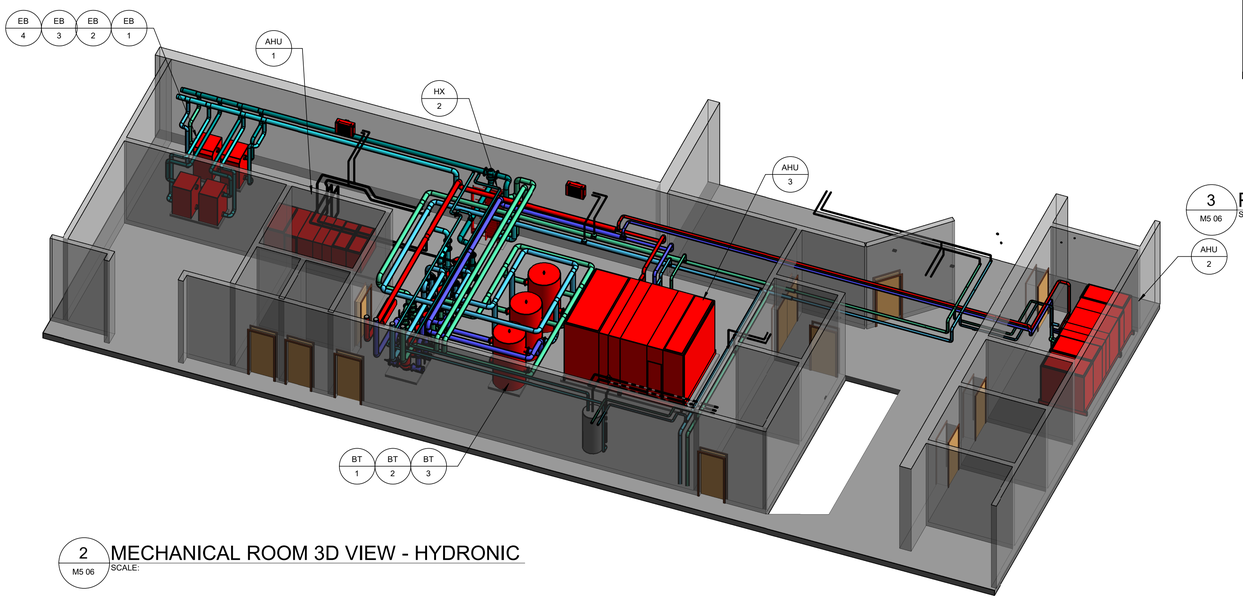
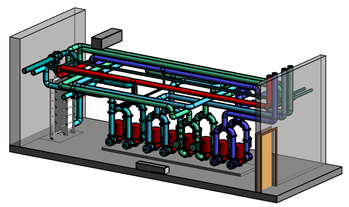


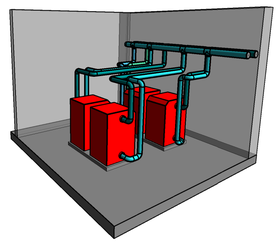
1 M5 06 ENLARGED MECHANICAL ROOM - HYDRONIC PIPING
SCALE:NTS



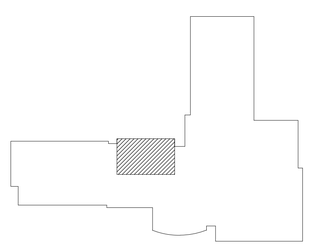
2 M5 06 MECHANICAL ROOM 3D VIEW - HYDRONIC
SCALE:



3 M5 06 PUMPS ASSEMBLY DETAIL - HYDRONIC
SCALE:



4 M5 06 BOILER PIPING ARRANGEMENT DETAIL
SCALE:



KEYPLAN

REVIT PROJECT SERVER PATH

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#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

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Certificate of Authorization
SMS Engineering Ltd.
No. 166

PROVINCE OF MANITOBA
23.03.24
J. L. GRATTON
Member 23075
REGISTERED PROFESSIONAL ENGINEER

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

school division

Hanover School Division
5 Chrysler Gate
Steinbach, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
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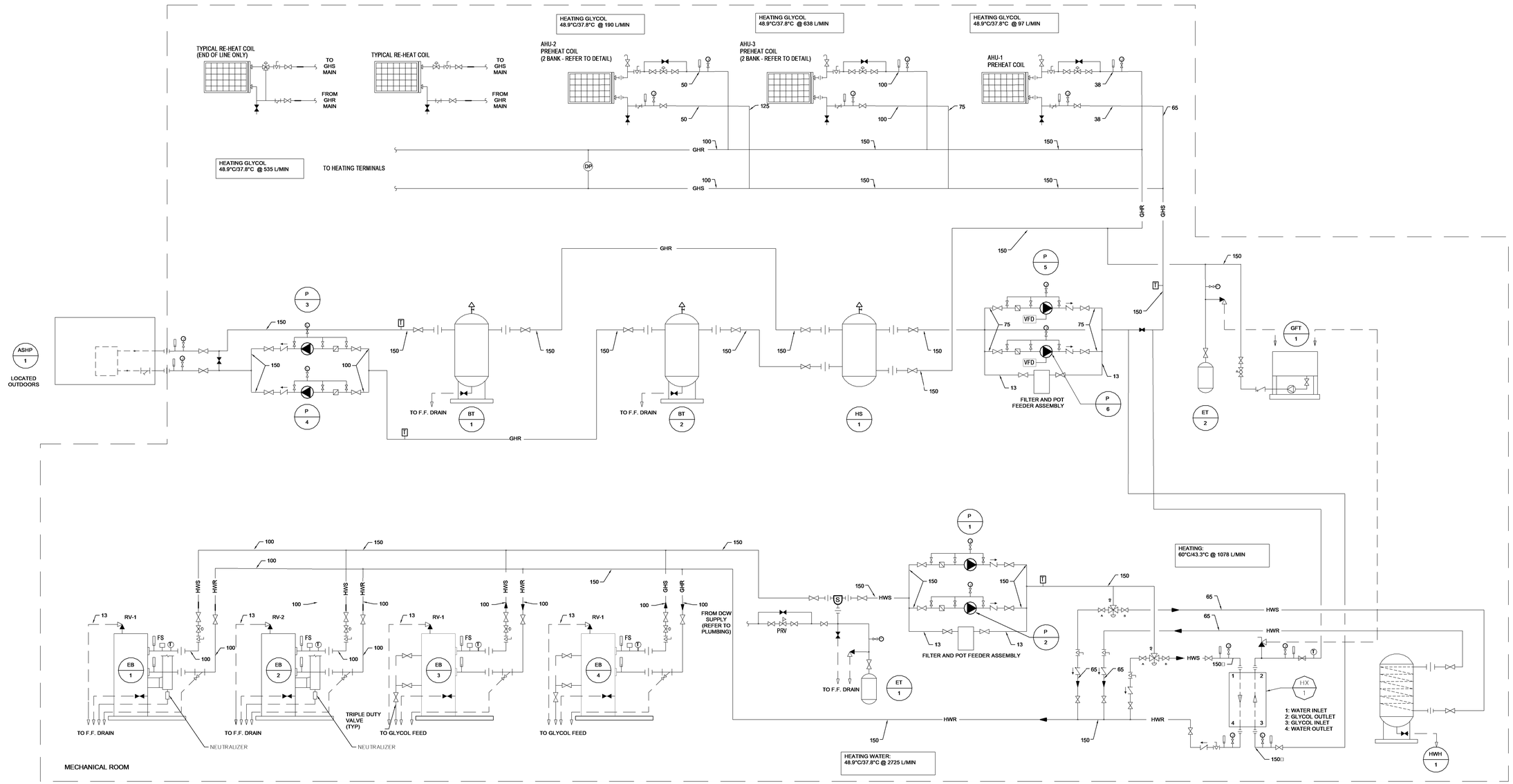
drawing information

ENLARGED MECHANICAL ROOM - HYDRONIC

drawn by: **JR**
approved by: **JLG**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

M5 06



1 M5 07 HYDRONIC SCHEMATIC
SCALE: NTS

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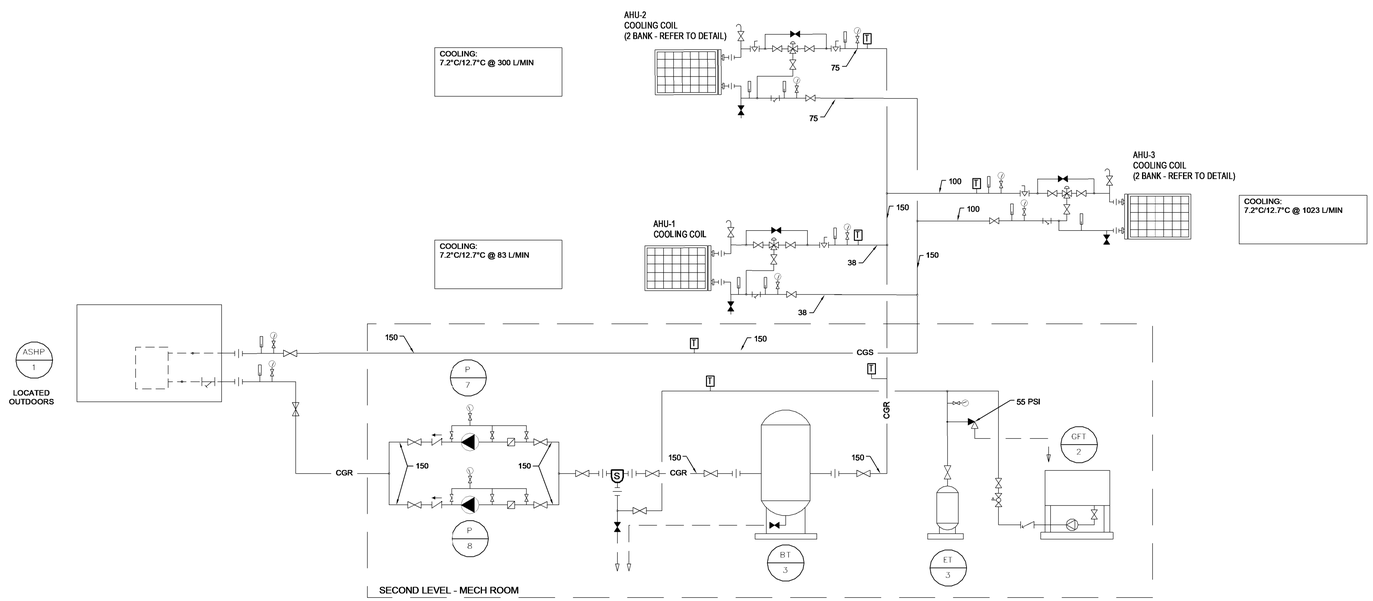

1 M5 08 CHILLED WATER SCHEMATIC
SCALE: 1 : 100

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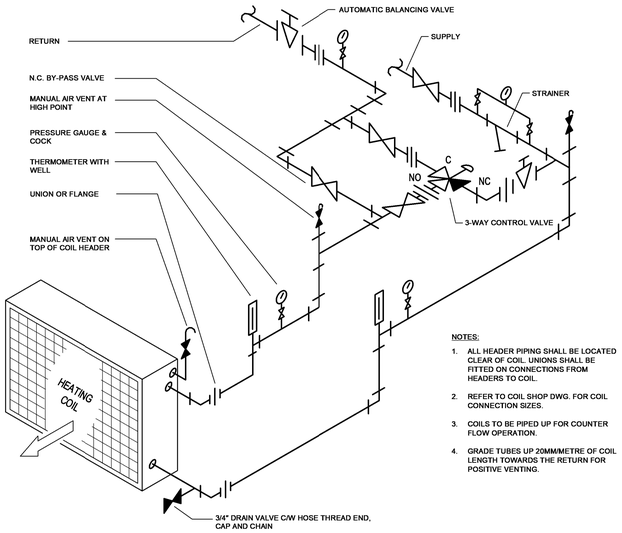
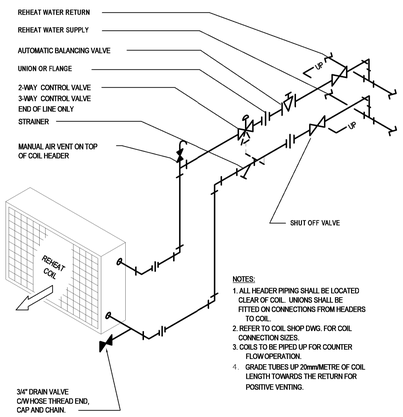


NOTES:

1. ALL HEADER PIPING SHALL BE LOCATED CLEAR OF COIL. UNIONS SHALL BE FITTED ON CONNECTIONS FROM HEADERS TO COIL.
2. REFER TO COIL SHOP DWG. FOR COIL CONNECTION SIZES.
3. COILS TO BE PIPED UP FOR COUNTER FLOW OPERATION.
4. GRADE TUBES UP 20MM/METRE OF COIL LENGTH TOWARDS THE RETURN FOR POSITIVE VENTING.

1 / M5 09 AIR HANDLER COIL SINGLE BANK, 3-WAY CONTROL
SCALE: NTS



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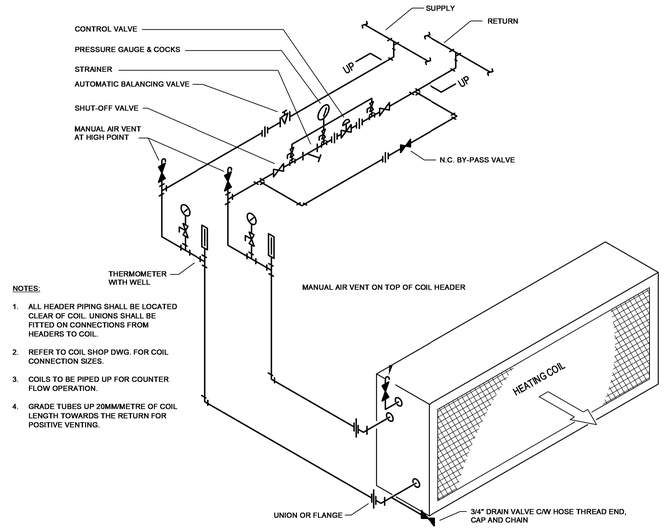
2 / M5 09 REHEAT COIL PIPING
SCALE: NTS



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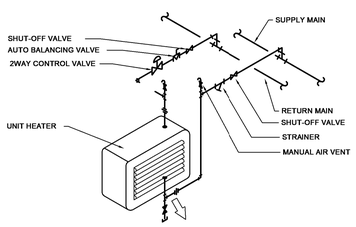
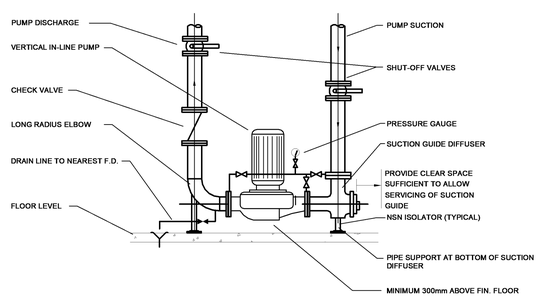
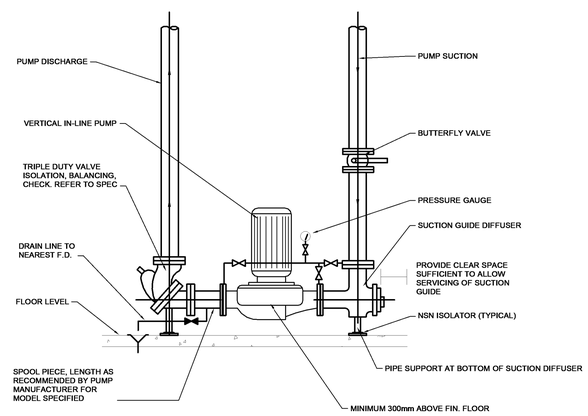
3 / M5 09 AIR HANDLER COIL SINGLE BANK, 2-WAY CONTROL
SCALE: NTS



4 / M5 09 HORIZONTAL UNIT HEATER
SCALE: NTS



5 / M5 09 VERTICAL IN-LINE PUMP WITH VFD INSTALLATION
SCALE: NTS



6 / M5 09 VERTICAL IN-LINE PUMP INSTALLATION
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HYDRONIC DETAILS

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M5 09

DRAWING LIST

E0 01	DRAWING LIST, SYMBOL LEGEND AND GENERAL NOTES
E0 02	SITE PLAN - ELECTRICAL
E1 01	FOUNDATION PLAN - ELECTRICAL
E1 02	ROOF PLAN - ELECTRICAL
E2 01	MAIN AND SECOND FLOOR PLAN - LIGHTING - EAST WING
E2 02	MAIN FLOOR PLAN - LIGHTING - CORE SPACES
E2 03	MAIN FLOOR PLAN - LIGHTING - NORTH WING
E2 04	SECOND FLOOR PLAN - LIGHTING - NORTH WING
E3 01	MAIN AND SECOND FLOOR PLAN - POWER AND VOICE/DATA - EAST WING
E3 02	MAIN FLOOR PLAN - POWER AND VOICE/DATA - CORE SPACES
E3 03	MAIN FLOOR PLAN - POWER AND VOICE/DATA - NORTH WING
E3 04	SECOND FLOOR PLAN - POWER AND VOICE/DATA - NORTH WING
E4 01	MAIN AND SECOND FLOOR PLAN - SYSTEMS - EAST WING
E4 02	MAIN FLOOR PLAN -SYSTEMS - CORE SPACES
E4 03	MAIN FLOOR PLAN - SYSTEMS - NORTH WING
E4 04	SECOND FLOOR PLAN - SYSTEMS - NORTH WING
E5 01	ELECTRICAL LARGE SCALE PLANS
E5 02	ELECTRICAL DETAILS
E5 03	ELECTRICAL RISER DIAGRAMS
E5 04	ELECTRICAL RISER DIAGRAMS
E6 01	ELECTRICAL SCHEDULES
E6 02	ELECTRICAL PANEL SCHEDULES
E6 03	ELECTRICAL PANEL SCHEDULES (CONT.)
E6 04	ELECTRICAL PANEL SCHEDULES (CONT.)
E6 05	ELECTRICAL PANEL SCHEDULES (CONT.)
E6 06	ELECTRICAL PANEL SCHEDULES (CONT.)
E7 01	ELECTRICAL SINGLE LINE DIAGRAM

RECEPTACLE AND POWER LEGEND

	DUPLEX RECEPTACLE
2	DUPLEX RECEPTACLE 20A 'T' SLOT 5-20R
	SPLIT WIRED DUPLEX RECEPTACLE
USB	DUPLEX RECEPTACLE
2	GFI DUPLEX RECEPTACLE 20A 'T' SLOT 5-20R
	GFI DUPLEX RECEPTACLE
	SPECIAL RECEPTACLE (RATING AS NOTED)
	QUADRAPLEX RECEPTACLE
	5-15R SINGLE RECEPTACLE
	RANGE RECEPTACLE
	DRYER RECEPTACLE
	DUPLEX RECEPTACLE IN FLUSH FLOOR BOX
A/V	3 GANG (POWER, DATA, A/V) FLUSH FLOOR BOX
	JUNCTION BOX/CONNECTION POINT
	DISCONNECT
	MOTOR
	HAND DRYER OUTLET
	MOTOR AND DISCONNECT
	COMBINATION DISCONNECT AND JUNCTION BOX
	COMBINATION STARTER
	TRANSFORMER
	SURFACE MOUNTED PANEL
	RECESSED MOUNTED PANEL
	RADIANT HEATING PANEL
	HEAT TRACE
XX XX	HEATER AND CONTROL TYPE
XXXX	EQUIPMENT OR MOTOR TAG

LIGHTING AND SWITCHING LEGEND

A1-a	LIGHT FIXTURE, A1-PANEL AND CIRCUIT, a-CONTROL
NL	UNSWITCHED NIGHT LIGHT FIXTURE CONNECTED TO EMERGENCY LIGHTING INVERTER POWER CIRCUIT (TYP. FOR ALL LIGHT FIXTURES)
	LIGHT FIXTURE CONNECTED TO EMERGENCY LIGHTING INVERTER POWER CIRCUIT (TYP. FOR ALL LIGHT FIXTURES)
	DOWN LIGHT
H	EXTERIOR WALL MOUNTED FIXTURE
	SINGLE HEAD POLE MOUNTED
	DOUBLE HEAD POLE MOUNTED
E	EXIT LIGHT
	EXIT LIGHT DOUBLE ARROW
$	SWITCH
$ 3a	3 WAY SWITCH, a - CONTROL
$ 4	4 WAY SWITCH, a - CONTROL
$	2 GANG SWITCH
$	3 GANG SWITCH
OS	OCCUPANCY SENSOR
$	DIMMER SWITCH
OS	DAYLIGHT SENSOR AND OCCUPANCY SENSOR (MULTI-SENSOR)
	PHOTOCELL

FIRE DETECTION LEGEND

FACP	FIRE ALARM CONTROL PANEL
ANN	ANNUNCIATOR
	PULL STATION
	SMOKE DETECTOR
	DUCT SMOKE DETECTOR
	STROBE
	COMBINATION HORN STROBE
P	COMBINATION SPEAKER STROBE WALL MOUNTED
R	PROGRAMMABLE RELAY
	SPRINKLER TAMPER SWITCH
	SPRINKLER FLOW SWITCH
	SPRINKLER PRESSURE SWITCH

SYSTEMS AND COMMUNICATION LEGEND

	VOICE/DATA OUTLET (2V DENOTES 2 VOICE OUTLETS, 2D DENOTES 2 DATA OUTLETS)
	ANALOG PHONE OUTLET/LINE
WAP	DUAL DATA OUTLET (2 CAT6 CABLES) FOR OWNER PROVIDED WIRELESS ACCESS POINT
	PUSH BUTTON
PTL	"PUSH TO LOCK" PUSH BUTTON
OWL	OCCUPIED WHEN LIT ANNUNCIATOR
	CARD READER
ES	ELECTRIC STRIKE
	DOOR ALARM CONTACT
	INTERCOM STATION
K	KEY PAD
	CCTV CAMERA OUTLET (LOCAL) - 1 CAT6 CABLE
M	MOTION DETECTOR
	OUTDOOR RATED WALL MOUNTED HORN SPEAKER (PAGING SYSTEM)
	CEILING MOUNTED SPEAKER (PAGING SYSTEM)
	WALL MOUNTED SPEAKER (PAGING SYSTEM)
SS1	WALL MOUNTED SPEAKER (GYM SOUND SYSTEM)
SS2	WALL MOUNTED SPEAKER (MINI GYM SOUND SYSTEM)
	120V CLOCK
PA	PA CALL STATION
IP	AUDIOVISUAL INPUT PLATE
AV1	AUDIOVISUAL WALL PLATE WITH RJ45 OUTLET
AV2	AUDIOVISUAL ROUGH IN FOR FUTURE INPUT PLATE C/W STAINLESS STEEL COVERPLATE
AV3	3.5MM AUXILIARY OUTLET AT PROJECTOR
AV4	3.5MM AUXILIARY OUTLET AT SOUND BAR
PC	EMERGENCY PULL CORD (PAGING SYSTEM)
LD	LOCKDOWN SYSTEM STROBE (BLUE STROBE)

SINGLE LINE LEGEND

AF	AMP FRAME
AT	AMP TRIP
	MOLDED CASE CIRCUIT BREAKER
	CURRENT TRANSFORMER
	STAR DELTA TRANSFORMER
	TRANSFORMER
PANEL	PANEL
	FUSED SWITCH
	CONTACTOR
	MOTOR OVER LOAD
DMS	DIGITAL METERING
M	UTILITY METERING

GENERAL NOTES

(APPLICABLE TO ALL DRAWINGS)

A. VISIT SITE DURING BID AND VERIFY ALL EXISTING SERVICES ON SITE PRIOR TO SUBMITTING BID. REPORT ANY DISCREPANCIES TO CONSULTANT DURING BID PERIOD.

B. CONFIRM EXACT LOCATIONS OF EQUIPMENT AND WIRING PRIOR TO ROUGH-IN.

C. CONFIRM ALL EQUIPMENT CONNECTIONS AND ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER. MAKE ADJUSTMENTS AND INSTALL PER MANUFACTURER'S REQUIREMENTS AT NO ADDITIONAL COST.

D. CONFIRM ELECTRICAL REQUIREMENT FOR "EQUIPMENT NOT IN CONTRACT" WITH EQUIPMENT MANUFACTURER.

E. MAKE FINAL CONNECTIONS TO EQUIPMENT AND INTER-CONNECTIONS BETWEEN EQUIPMENT.

F. COORDINATE BETWEEN ALL TRADES AND CONSULTANT, ON AND OFF SITE, AS REQUIRED FOR INSTALLATION OF ELECTRICAL EQUIPMENT.

G. REVIEW HEIGHTS AND PLACEMENT OF EQUIPMENT. SHOULD THERE BE ANY CONFUSION OR DISCREPANCIES IT WILL BE RESPONSIBILITY OF THE CONTRACTOR TO CLARIFY PRIOR TO INSTALLATION.

H. EQUIPMENT HEIGHTS ARE FOR POINT OF CONNECTION AND SHALL BE MEASURED ABOVE FINISHED FLOOR LEVEL TO CENTERLINE OF OUTLET OR POINT OF CONNECTION. STUB-OUTS TO EXTEND 6" BEYOND FINISHED WALLS AND 6" ABOVE FINISHED FLOOR OR TOP OF EQUIPMENT PAD.

I. ALL WORK MUST BE VERIFIED BY SITE MEASUREMENTS AND WITH THE FINAL EQUIPMENT SELECTION. EQUIPMENT MAKES AND MODELS MAY CHANGE AND THIS WILL AFFECT FINAL PLACEMENT.

J. PROVIDE ELECTRONIC SCANNING DEVICES OR OTHER APPROVED MEANS TO LOCATE AND IDENTIFY ALL CONCEALED SERVICES PRIOR TO MAKING OPENINGS OR CUTTING THROUGH SURFACES AND BEFORE DIGGING AND TRENCHING.

K. DO NOT CUT REINFORCING STEEL.

L. USE 'SOFT-DIG' TECHNIQUES WHEN WORKING AROUND EXISTING UNDERGROUND SERVICES TO MITIGATE THE POSSIBILITY OF DAMAGE.

M. INSTALLATION OF UNDERGROUND CIRCUITS TO CONFORM TO CEC RULES 60.600.

N. PVC CONDUITS SHALL BE SCHEDULE 40.

O. PROVIDE LIQUID TIGHT CONNECTORS ON OUTDOOR CONDUITS.

P. COORDINATE WITH GENERAL CONTRACTOR TO SEAL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS AND CEILINGS WITH FIRE STOP MATERIAL AS REQUIRED TO MAINTAIN FIRE RATING.

Q. COORDINATE WITH GENERAL CONTRACTOR TO SEAL PENETRATIONS THROUGH SOUND WALLS ACOUSTICALLY.

R. LONG TIME TRIP VALUES OF ADJUSTABLE BREAKERS ARE ARBITRARY. OBTAIN FINAL SETTINGS FROM CONSULTANT. SET/PROGRAM TRIP UNITS AS DIRECTED BY CONSULTANT. TEST BREAKERS AFTER PROGRAMMING. PROVIDE TEST REPORT TO CONSULTANT FOR REVIEW.

S. VERIFY EQUIPMENT NEMA RATINGS BEFORE INSTALLATION.

T. WHERE ISOLATED GROUND RECEPTACLE IS REQUIRED PROVIDE ISOLATED GROUND BUS IN PANEL. INSTALL CONDUCTOR FROM EACH ISOLATED GROUND RECEPTACLE TO ISOLATED GROUND BUS IN ELECTRICAL PANEL.

U. PROVIDE ALL REQUIRED CONDUIT FOR CARD ACCESS SYSTEM. CONFIRM ALL REQUIREMENTS WITH SYSTEM SUPPLIER. REFER TO RISER DIAGRAMS (AND ALTERNATE PRICES WHERE APPLICABLE) FOR SCOPE OF WORK RELATED TO ALL SYSTEMS INCLUDING INTRUSION SYSTEM, VIDEO INTERCOM SYSTEM, CARD ACCESS SYSTEM, CCTV SYSTEM, PUBLIC ACCESS SYSTEM AND GYM SOUND SYSTEM.

V. TERMINATE VOICE/DATA CABLES AT BOTH ENDS. TEST ALL CABLES AFTER INSTALLATION TO ENSURE CABLING INSTALLATION IS 25 YEAR CERTIFIED. WARRANTY ALL PASSIVE COMPONENTS, MATERIALS, INSTALLATION AND WORKMANSHIP FOR TWENTY-FIVE (25) YEARS PER THE CERTIFIED MANUFACTURERS PROGRAMS.

W. VERIFY FIRE ALARM SYSTEM AFTER COMPLETION OF INSTALLATION.

X. FIRE ALARM AUDIBLE LEVELS SHALL BE VERIFIED TO MEET REQUIREMENTS OF CAN/ULC S524 AFTER INSTALLATION.

ABBREVIATION LEGEND

a	MOUNTED ABOVE COUNTER
c	CEILING MOUNTED
LT	LIT TOGGLE
m	MOUNTED IN MILLWORK
WP	WEATHER PROOF
AFF	ABOVE FINISHED FLOOR
MTD	MOUNTED
LD	LOCK DOWN
ADO	AUTOMATIC DOOR OPERATOR
DN	DOWN

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V.E. KANE
2023 MARCH
Member 20363
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approved by: VEK

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E0 01

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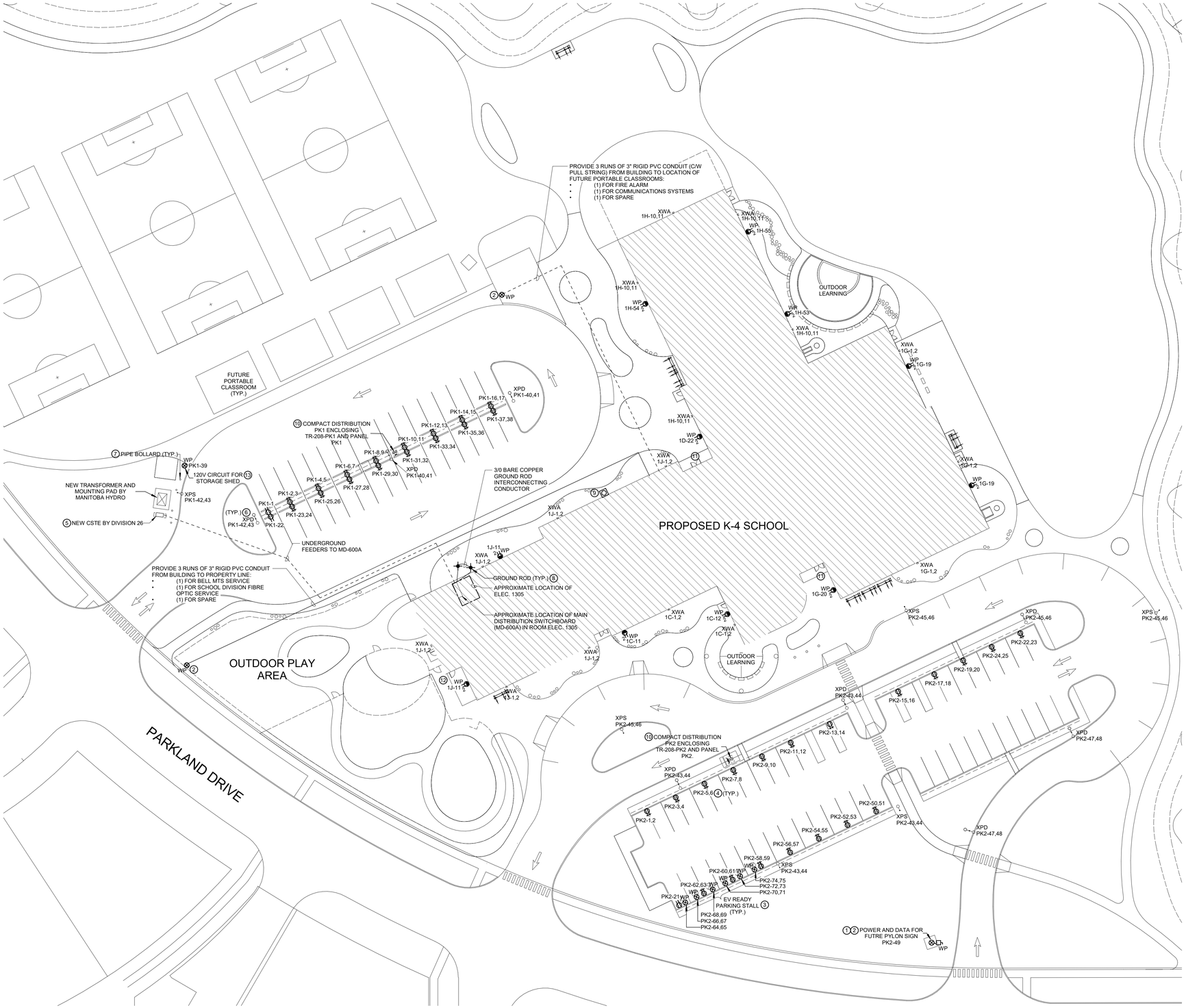


1 SITE PLAN - ELECTRICAL
E0 02
SCALE 1 : 400

GENERAL NOTES

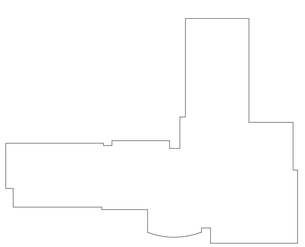
A. ALL BURIED BRANCH CIRCUIT CABLE TO BE RWU90 IN RIGID PVC CONDUIT, UNLESS NOTED OTHERWISE.

B. CONDUITS TO ENTER THE BUILDING IN THE CRAWLSPACE AREA. TERMINATE EACH CONDUIT IN WEATHERPROOF PULL BOX WITHIN THE CRAWLSPACE. SEAL PENETRATIONS THROUGH FOUNDATION WALL PER SPECIFICATION.

C. REFER TO SINGLE LINE DRAWING FOR DISTRIBUTION EQUIPMENT SIZING.

KEY NOTES (ER)

1. BASE BID TO EXCLUDE PYLON SIGN PROVISIONS. REFER TO ALTERNATE PRICE #6: PROVIDE BURIED 2#10 RWU90 POWER CABLE AND DIRECT BURIAL RATED CAT6 DATA CABLING FROM SERVER ROOM 2217 TO PYLON SIGN LOCATION. POWER AND DATA CABLING TO BE IN RIGID PVC CONDUITS.
2. PVC CONDUITS SHALL BE CAPPED, SEALED AND BURIED BELOW GRADE, C/W PULL STRINGS. PROVIDE CONCRETE CABLE MARKERS AT GRADE AND PROVIDE GPS COORDINATES OF BURIED CONDUITS. COORDINATE FINAL LOCATION WITH BELL MTS AND OWNER.
3. PROVIDE 2#6 RW90 PLUS BONDING IN 25mm CONDUIT FROM PANEL PK2 TO A WEATHERPROOF JUNCTION BOX AT EACH "ELECTRIC VEHICLE READY" PARKING STALL.
4. PROVIDE SPLIT FED 15A-120V WEATHERPROOF IPLC INTELLIGENT PARKING RECEPTACLES MOUNTED ON PARKING FENCE (FENCE BYLANDSCAPE ARCHITECTURAL).
5. COORDINATE WITH STRUCTURAL FOR PROVISION OF CONCRETE PAD FOR CSTE. REFER TO DRAWING E5 02, DETAIL 3 FOR GROUNDING DETAILS.
6. PROVIDE NEW POLE AND LIGHT FIXTURE ON CONCRETE BASE (BASE BY STRUCTURAL). COORDINATE FINAL LOCATION WITH LANDSCAPE ARCHITECT. REFER TO DRAWING E5 02, DETAIL 5.
7. BOND PIPE BOLLARD TO GROUND GRID. COORDINATE WORK WITH MANITOBA HYDRO. REFER TO DRAWING E5 02, DETAIL 6.
8. PROVIDE 6M LONG, 19mm DIAMETER ROD, COPPER CLAD STEEL, 10 MIL COATING. INSTALL ROD PERPENDICULAR TO SURFACE. TOP END OF ROD AT 300mm BELOW GRADE. REFER TO DETAIL 4 ON E5 02.
9. PROVIDE PHOTOCELL AND CONNECT TO LIGHTING CONTROL PANEL LCP-1
10. PROVIDE CUSTOM COMPACT DISTRIBUTION SUB STATION C/W TRANSFORMER AND PANELBOARD, REFER TO SINGLE LINE DIAGRAM FOR FURTHER DETAILS. DISTRIBUTION OUTER ENCLOSURE SHALL BE NEMA 3R RATED. COORDINATE WITH STRUCTURAL FOR PROVISION OF CONCRETE PAD BASED ON FINAL EQUIPMENT SELECTIONS.
11. REFER TO DRAWING E2 02 FOR EXTERIOR LIGHTING AT ENTRANCE.
12. REFER TO DRAWING E2 03 FOR EXTERIOR LIGHTING AT ENTRANCE.
13. BASE BID TO EXCLUDE PROVISIONS FOR FUTURE SHED. REFER TO ALTERNATE PRICE #24: PROVIDE 2#10 RWU90 IN BURIED RIDGID PVC CONDUIT TO FUTURE STORAGE SHED LOCATION. COORDINATE WITH OWNER FOR FINAL LOCATION AND ALLOW 20' SLACK WIRE AT SHED LOCATION.



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1	2023.03.24	ISSUED FOR CONSTRUCTION

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V.E. LAKANE
2023 MARCH 24
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project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

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NEW WEST STEINBACH ELEMENTARY SCHOOL
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drawing information

SITE PLAN - ELECTRICAL

drawn by: **KAM**
approved by: **VEK**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

E0 02

REVIT PROJECT SERVER PATH

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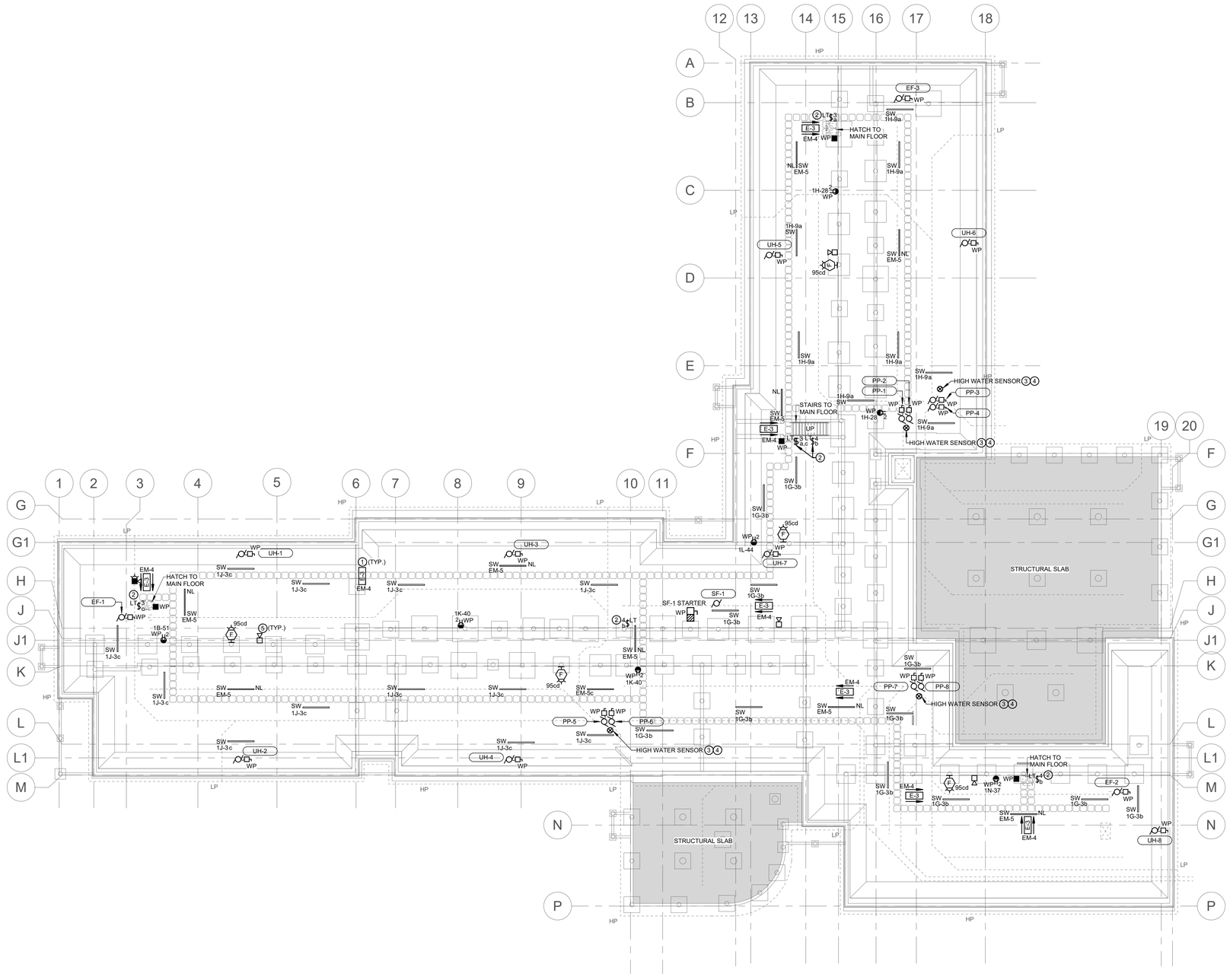
GENERAL NOTES

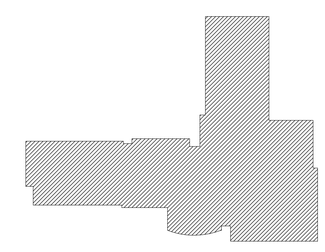
A. ELECTRICAL EQUIPMENT AND DEVICES ON THIS DRAWING TO BE SUITABLE FOR MOIST ENVIRONMENT (CATEGORY 1 AREA PER CEC CHAPTER 22).

KEY NOTES (KP)

1. COORDINATE FINAL LOCATION OF EXIT SIGNS WITH STRUCTURAL BEAMS AND OTHER OBSTRUCTIONS TO PROVIDE MAXIMUM VISIBILITY FROM SURROUNDING AREA.
2. LINE VOLTAGE SWTICH WITH LIT TOGGLE. MOUNT ON COLUMN OR VERTICAL FACE OF BEAM.
3. PROVIDE EMPTY CONDUITS AND BACK BOXES FOR INTRUSION SYSTEM. REFER TO ALTERNATE PRICE #3 FOR PROVISION OF DMP INTRUSION SYSTEM EQUIPMENT AND WIRING (SUPPLIED BY FONTAINE ELECTRIC).
4. CONNECT TO DMP INTRUSION SYSTEM. REFER TO WIRING DIAGRAM (DRAWING E5 03, DETAIL 2).
5. PA SYSTEM HORN MOUNTED ON VERTICAL FACE OR BEAM.



1 / E1 01 FOUNDATION LEVEL - ELECTRICAL
SCALE: 1 : 200



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2023 MARCH 27
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FOUNDATION PLAN - ELECTRICAL

drawn by: **AS**
approved by: **VEK**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

E1 01

REVIT PROJECT SERVER PATH
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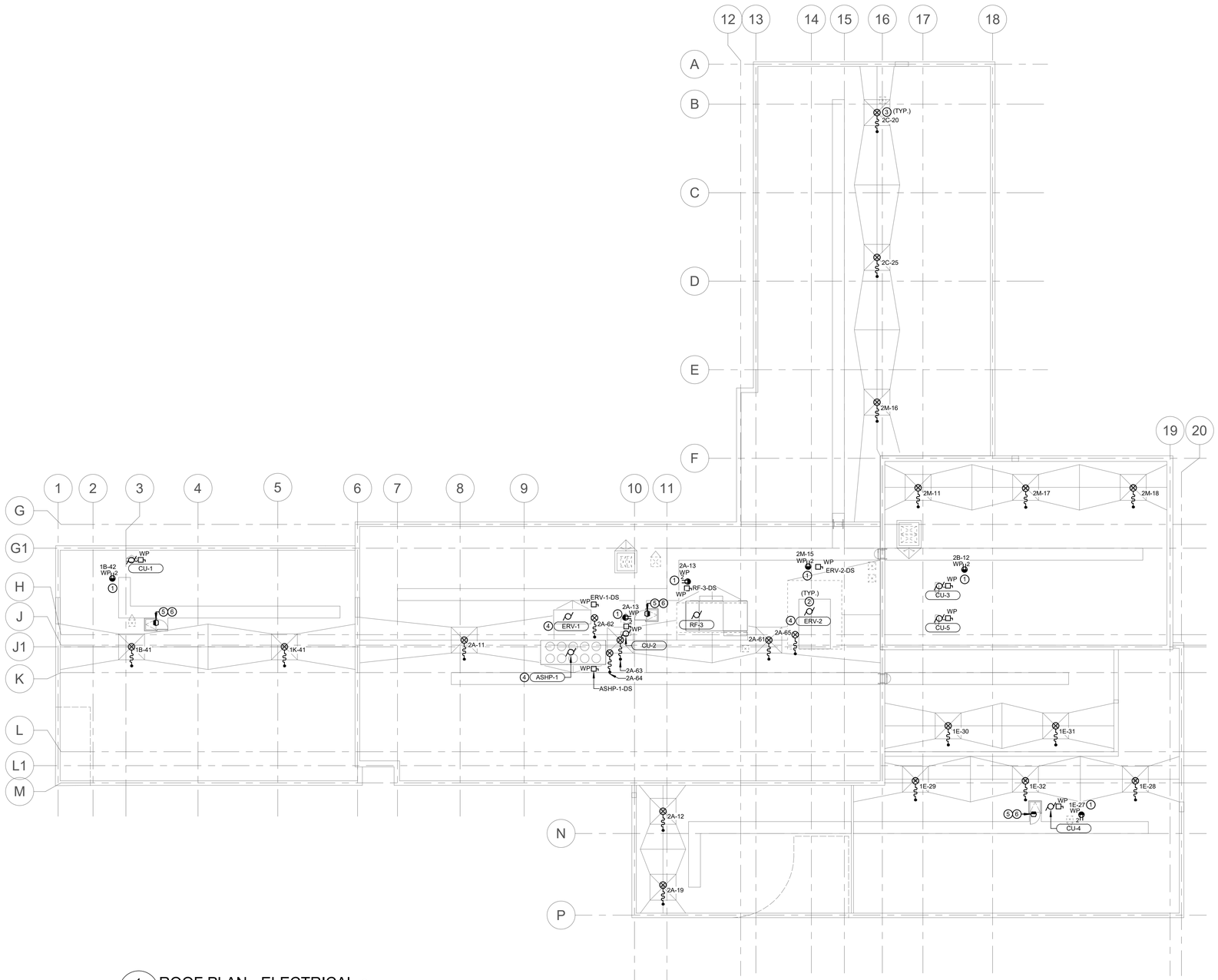
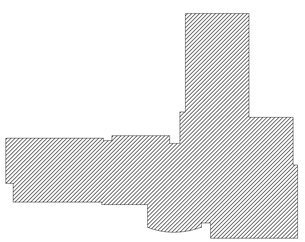
KEY NOTES (E0)

1. PROVIDE CLASS A GFCI RECEPTACLE OF CSA TYPE 5-20R MOUNTED AT MIN. 750mm ABOVE ROOF LEVEL ON THALER MERS-750A ELECTRICAL OUTLET ROOF PEDESTAL OR APPROVED EQUAL. RECEPTACLE SHALL BE PROTECTED FROM MECHANICAL DAMAGE. MOUNT RECEPTACLE INDEPENDANT OF ANY MECHANICAL EQUIPMENT. COORDINATE INSTALLATION WITH ROOFING CONTRACTOR.
2. CONNECT MECHANICAL EQUIPMENT AS SHOWN. COORDINATE FINAL LOCATION WITH MECHANICAL CONTRACTOR.
3. PROVIDE IDENTIFIED PRICE (IDENTIFIED PRICE #1) FOR ALL HEAT TRACE PRODUCTS ON THIS PROJECT. PROVIDE RAYCHEM 5XL1-CR HEAT TRACE ON ROOF DRAIN LINES C/W EC-TS LINE SPACING THERMOSTAT (INSTALL THERMOSTAT SENSOR ON PIPE). PROVIDE RAYCLIC-PC CONNECTION KIT C/W END SEAL AND POWER CONNECTION. FEED FROM 30mA GFCI BREAKER. HEAT TRACE TO EXTEND TO 600MM INSIDE BUILDING. COORDINATE WITH DIV. 25.
4. PROVIDE HEAT TRACE FOR CONDENSATE DRAIN LINE FROM EQUIPMENT TO NEAREST ROOF DRAIN. COORDINATE WITH DIV. 25.
5. PROVIDE EMPTY CONDUITS AND BACK BOXES FOR INTRUSION SYSTEM. REFER TO ALTERNATE PRICE #3 FOR PROVISION OF DMP INTRUSION SYSTEM EQUIPMENT AND WIRING (SUPPLIED BY FONTAINE ELECTRIC).
6. DOOR CONTACT FOR ROOF HATCH. CONNECT TO DMP INTRUSION SYSTEM. REFER TO WIRING DIAGRAM (DRAWING E5 03, DETAIL 2).



1 / E1 02 ROOF PLAN - ELECTRICAL (2)
SCALE: 1 : 200



KEYPLAN

REVIT PROJECT SERVER PATH

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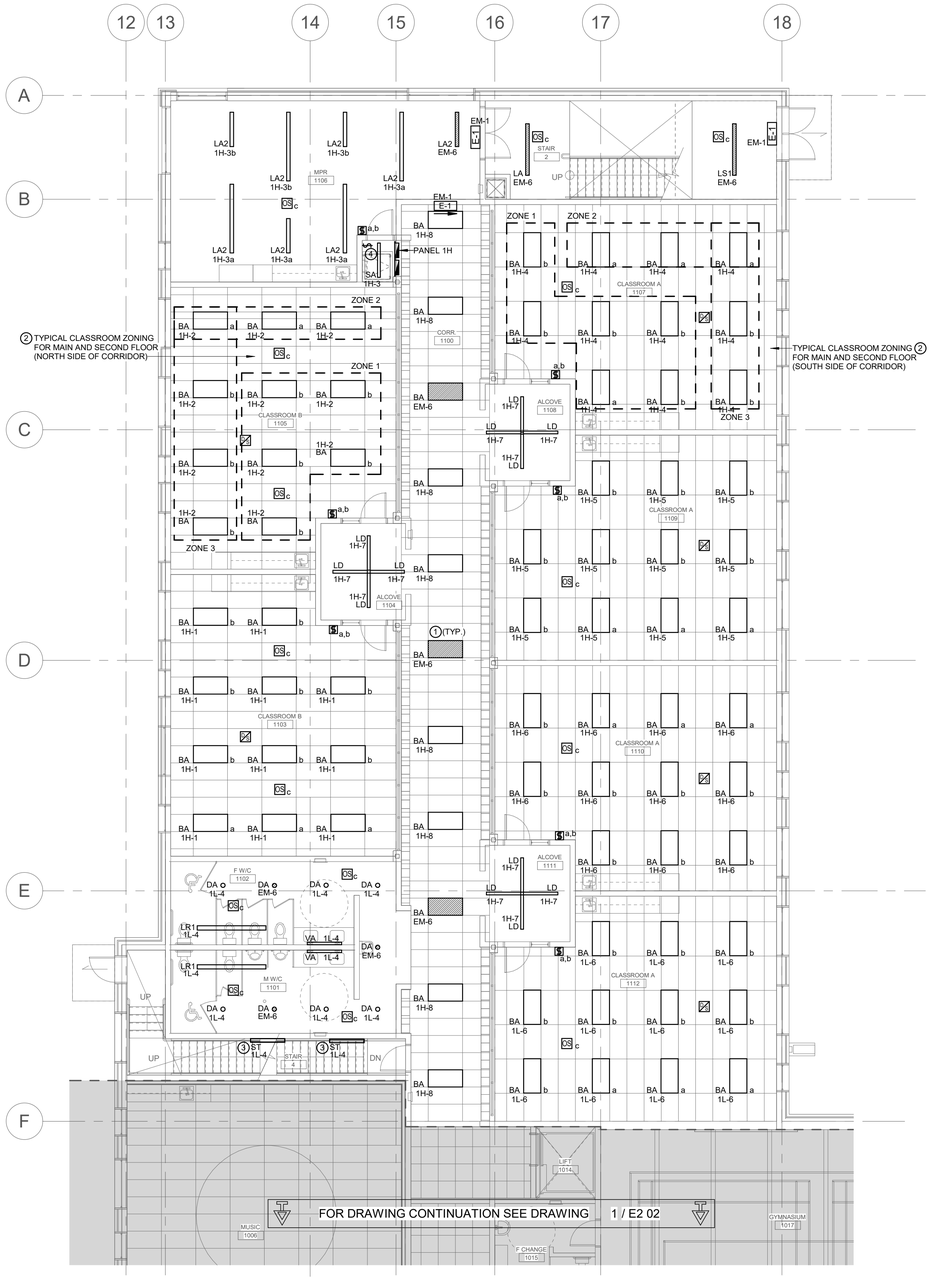
ROOF PLAN - ELECTRICAL

drawn by: **AS**
approved by: **VEK**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

E1 02



1 E2 01 MAIN FLOOR PLAN - LIGHTING - EAST WING
SCALE: 1 : 100

2 E2 01 SECOND FLOOR PLAN - LIGHTING - EAST WING
SCALE: 1 : 100

GENERAL NOTES

A. IN AREAS WITH EXPOSED CEILINGS, COORDINATE FINAL LIGHT FIXTURE LOCATIONS AND MOUNTING HEIGHT WITH STRUCTURE, MECHANICAL EQUIPMENT, DUCT WORK, PIPING, ETC.

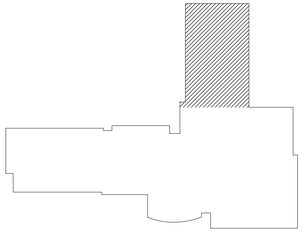
B. REFER TO SPECIFICATION 26 09 41 FOR LIGHTING CONTROL REQUIREMENTS AND SEQUENCE OF OPERATIONS.

C. REFER TO DRAWING E5.03, DETAIL 5 AND 6 FOR LIGHTING CONTROL CONNECTION DETAILS.

D. PROVIDE FIELD RELAYS AS REQUIRED FOR SCHEDULED RECEPTACLE SWITCHING BY LIGHTING CONTROL SYSTEM. REFER TO POWER AND VOICE/DATA DRAWINGS FOR LOCATIONS.

KEY NOTES (KN)

1. EMERGENCY LIGHT FIXTURE CONNECTED TO EMERGENCY POWER INVERTER. FIXTURE TO OVERRIDE LOCAL LIGHTING CONTROL AND REMAIN ON AT 100% IN THE EVENT OF POWER LOSS.
2. ZONE 1 (DIMMING): GENERAL CLASSROOM
   ZONE 2 (DIMMING): FRONT/PROJECTOR
   ZONE 3 (DIMMING): DAYLIGHT HARVESTING (AUTOMATIC DIMMING).
3. PROVIDE TYPE ST FIXTURES C/W INTEGRAL OCCUPANCY SENSOR (25% ON DURING STAND BY MODE, 100% ON DURING OCCUPANCY) IN STAIR TO CRAWLSPACE.
4. LINE VOLTAGE CONTROL DEVICE.



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MAIN AND SECOND FLOOR PLAN - LIGHTING - EAST WING

drawn by: **KAM/EM**
approved by: **VEK**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

E2 01

REVIT PROJECT SERVER PATH
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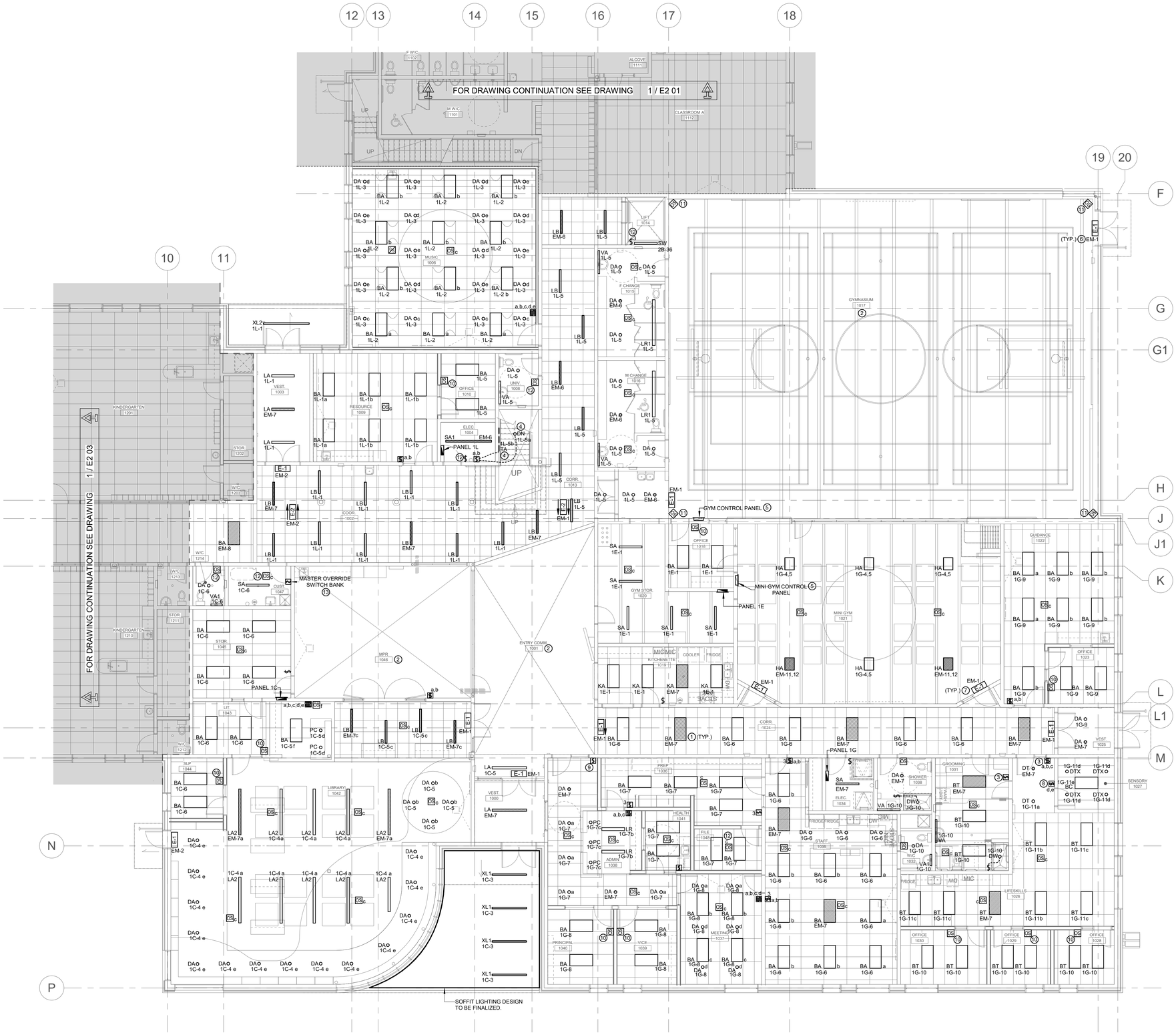


1 / E2 02 MAIN FLOOR PLAN - LIGHTING - CORE SPACES
SCALE: 1 : 100

GENERAL NOTES

A. IN AREAS WITH EXPOSED CEILINGS, COORDINATE FINAL LIGHT FIXTURE LOCATIONS AND MOUNTING HEIGHT WITH STRUCTURE, MECHANICAL EQUIPMENT, DUCT WORK, PIPING, ETC.

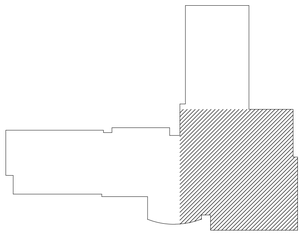
B. REFER TO SPECIFICATION 26 09 41 FOR LIGHTING CONTROL REQUIREMENTS AND SEQUENCE OF OPERATIONS.

C. REFER TO DRAWING E5 03, DETAIL 5 AND 6 FOR LIGHTING CONTROL CONNECTION DETAILS.

D. PROVIDE FIELD RELAYS AS REQUIRED FOR SCHEDULED RECEPTACLE SWITCHING BY LIGHTING CONTROL SYSTEM. REFER TO POWER AND VOICE/DATA DRAWINGS FOR LOCATIONS.

KEY NOTES (KN)

1. EMERGENCY LIGHT FIXTURE CONNECTED TO EMERGENCY POWER INVERTER. FIXTURE TO OVERRIDE LOCAL LIGHTING CONTROL AND REMAIN ON AT 100% IN THE EVENT OF POWER LOSS.
2. REFER TO SECOND FLOOR PLAN E2 04 FOR LIGHTING IN THIS AREA/ROOM.
3. DIMMER TO PROVIDE 0-10V DIMMING CONTROL AND SEPARATE COLOUR TEMPERATURE CONTROL.
4. PROVIDE TYPE TA TAPE LIGHT AND TYPE DA DOWN LIGHT IN SEATING NOOK BELOW STAIR. LIGHTS TO BE CONTROLLED BY LIGHTING CONTROL SYSTEM FOR SCHEDULING ON/OFF. PROVIDE SEPARATE OVERRIDE DIMMING CONTROL FOR EACH, AS SHOWN. TAPE LIGHT TO BE INSTALLED ALONG PERIMETER OF PERFORATED METAL PANEL ON WALL OF NOOK (APPROXIMATELY 5300MM LENGTH). COORDINATE FINAL LENGTH ON SITE. REFER TO ARCHITECTURAL DRAWING A8 07, DETAIL 5. INSTALL DRIVER FOR TYPE TA IN ELECTRICAL ROOM 1004.
5. LIGHTING DIMMERS AND OTHER GYM CONTROL DEVICES LOCATED IN PANEL. REFER TO DRAWING E5 02 FOR CONTROL PANEL LAYOUT.
6. PROVIDE WIRE GUARD FOR ALL ELECTRICAL DEVICES/EQUIPMENT IN GYM.
7. PROVIDE WIRE GUARD FOR ALL ELECTRICAL DEVICES/EQUIPMENT IN MINI GYM.
8. PROVIDE ACCLAIM ART 4 DMX CONTROLLER TO CONTROL TYPE BC AND TYPE DTX LIGHTS IN SENSORY ROOM. CONNECT TO 120V POWER (UNSWITCHED) FROM CIRCUIT 1G-11.
9. PROVIDE ACCLAIM ART 4 DMX CONTROLLER TO CONTROL TYPE PA LIGHTS OVER ENTRY COMMONS AND TYPE PB LIGHTS OVER STAIR 1 AND CORRIDOR 2000, (SEPARATE ZONES). REFER TO DRAWING E2 04.
10. WALL MOUNTED OCCUPANCY SENSOR C/W INTEGRAL DIMMER.
11. CORNER MOUNTED OCCUPANCY SENSOR.
12. LINE VOLTAGE CONTROL DEVICE.
13. PROVIDE LOW VOLTAGE MASTER OVERRIDE SWITCHES WITH RAISE/LOWER FUNCTION FOR THE FOLLOWING PUBLIC AREA ZONES:
    - MAIN FLOOR CORRIDORS (CORRIDOR 1013, 1024, 1100, 1200, 1300).
    - MAIN FLOOR CORE AREA CORRIDORS (1002 AND 1013).
    - EXTERIOR SOFFIT LIGHTING
    - VESTIBULES (ALL)
    - 2ND FLOOR CORRIDORS



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drawing information

MAIN FLOOR PLAN - LIGHTING - CORE SPACES

drawn by: **KAM/EM**
approved by: **VEK**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

E2 02

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GENERAL NOTES

A. IN AREAS WITH EXPOSED CEILINGS, COORDINATE FINAL LIGHT FIXTURE LOCATIONS AND MOUNTING HEIGHT WITH STRUCTURE, MECHANICAL EQUIPMENT, DUCT WORK, PIPING, ETC.

B. REFER TO SPECIFICATION 26 09 41 FOR LIGHTING CONTROL REQUIREMENTS AND SEQUENCE OF OPERATIONS.

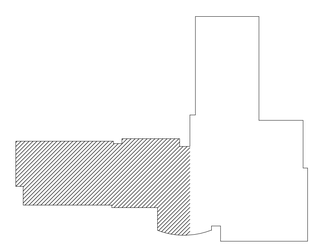
C. REFER TO DRAWING E5 03, DETAIL 5 AND 6 FOR LIGHTING CONTROL CONNECTION DETAILS.

D. PROVIDE FIELD RELAYS AS REQUIRED FOR SCHEDULED RECEPTACLE SWITCHING BY LIGHTING CONTROL SYSTEM. REFER TO POWER AND VOICE/DATA DRAWINGS FOR LOCATIONS.

KEY NOTES

1. EMERGENCY LIGHT FIXTURE CONNECTED TO EMERGENCY POWER INVERTER. FIXTURE TO OVERRIDE LOCAL LIGHTING CONTROL AND REMAIN ON AT 100% IN THE EVENT OF POWER LOSS.
2. ZONE 1 (DIMMING): GENERAL CLASSROOM
   ZONE 2 (DIMMING): FRONT/PROJECTOR ZONE 3 (DIMMING): DAYLIGHT HARVESTING (AUTOMATIC DIMMING).
3. WALL MOUNTED OCCUPANCY SENSOR C/W INTEGRAL DIMMER.
4. LINE VOLTAGE CONTROL DEVICE.

1 / E2 03 MAIN FLOOR PLAN - LIGHTING - NORTH WING
SCALE: 1 : 100



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V.E. VIKANE
2023 MARCH
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MAIN FLOOR PLAN - LIGHTING - NORTH WING

drawn by: **KAM/EM**
approved by: **VEK**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

E2 03

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GENERAL NOTES

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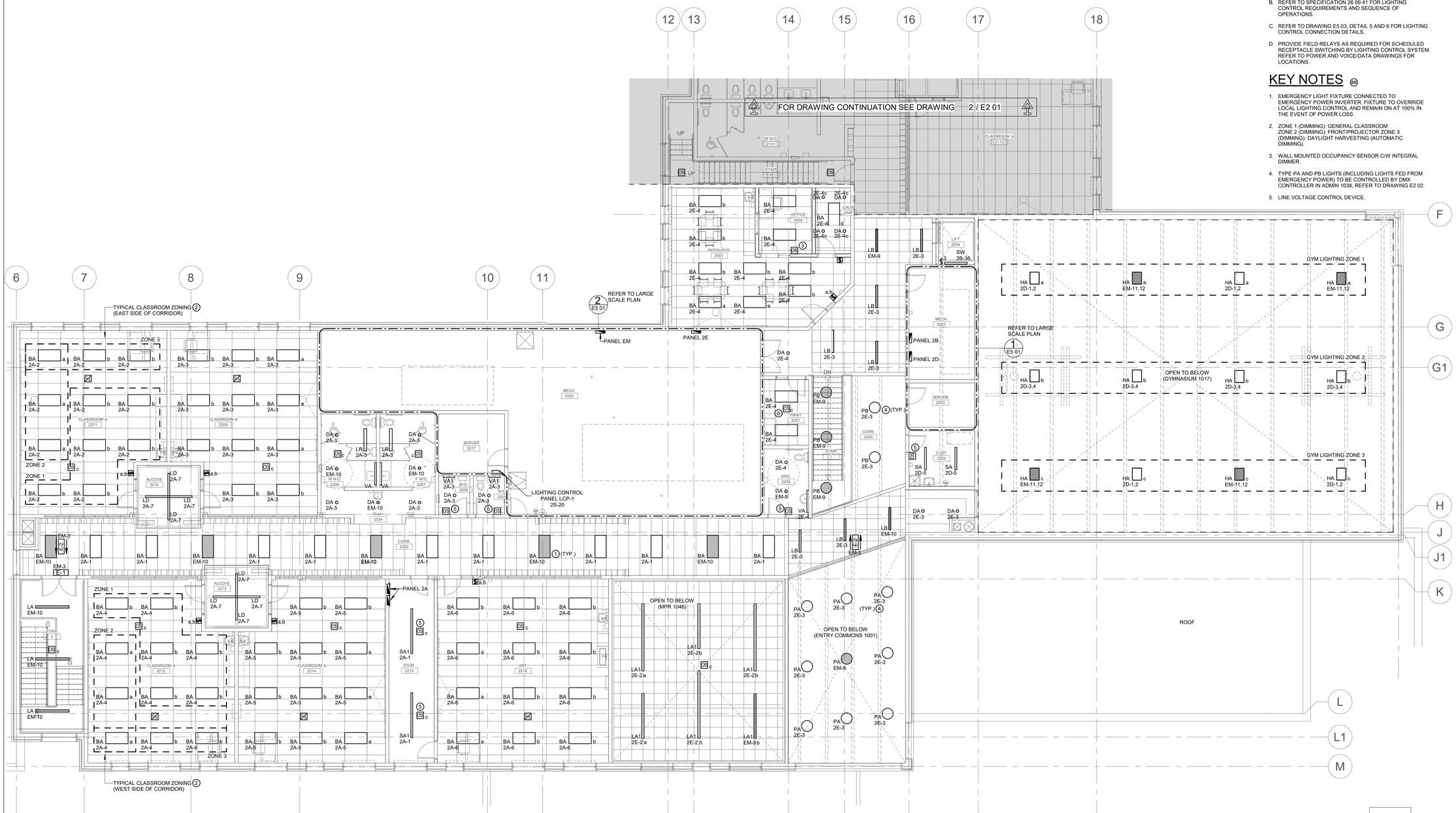
B. REFER TO SPECIFICATION 26 09 41 FOR LIGHTING CONTROL REQUIREMENTS AND SEQUENCE OF OPERATIONS.

C. REFER TO DRAWING E5 03, DETAIL 5 AND 6 FOR LIGHTING CONTROL CONNECTION DETAILS.

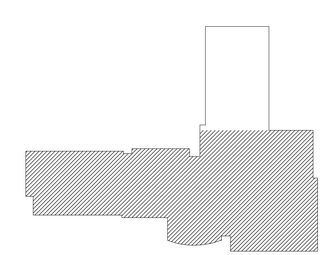
D. PROVIDE FIELD RELAYS AS REQUIRED FOR SCHEDULED RECEPTACLE SWITCHING BY LIGHTING CONTROL SYSTEM. REFER TO POWER AND VOICE/DATA DRAWINGS FOR LOCATIONS.

KEY NOTES (RR)

1. EMERGENCY LIGHT FIXTURE CONNECTED TO EMERGENCY POWER INVERTER. FIXTURE TO OVERRIDE LOCAL LIGHTING CONTROL AND REMAIN ON AT 100% IN THE EVENT OF POWER LOSS.
2. ZONE 1 (DIMMING): GENERAL CLASSROOM
   ZONE 2 (DIMMING): FRONT/PROJECTOR ZONE 3 (DIMMING): DAYLIGHT HARVESTING (AUTOMATIC DIMMING).
3. WALL MOUNTED OCCUPANCY SENSOR C/W INTEGRAL DIMMER.
4. TYPE PA AND PB LIGHTS (INCLUDING LIGHTS FED FROM EMERGENCY POWER) TO BE CONTROLLED BY DMX CONTROLLER IN ADMIN 1038, REFER TO DRAWING E2 02.
5. LINE VOLTAGE CONTROL DEVICE.



1 / E2 04 SECOND FLOOR PLAN - LIGHTING - NORTH WING
SCALE: 1 : 100



KEYPLAN

REVIT PROJECT SERVER PATH

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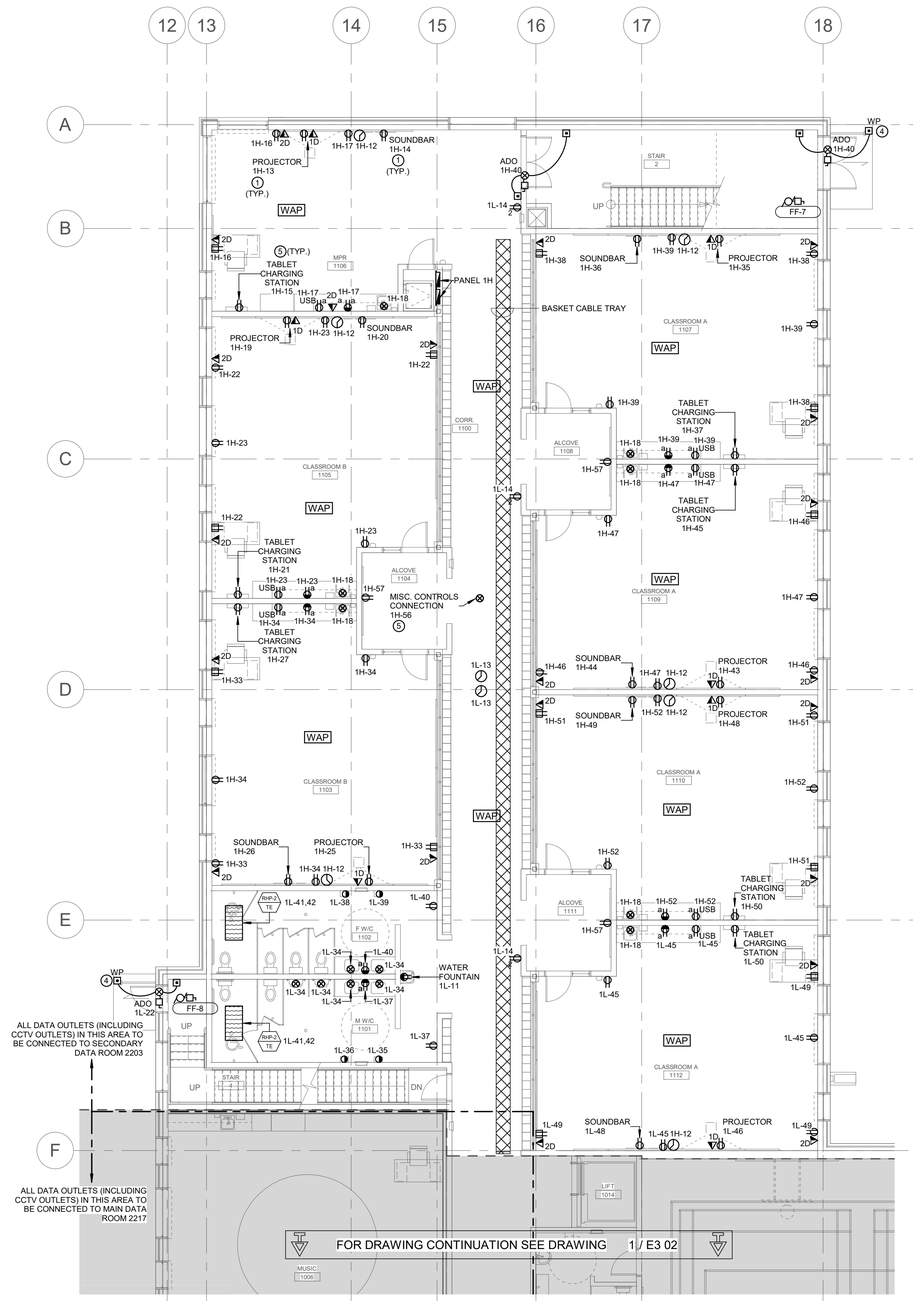
drawing information

SECOND FLOOR PLAN - LIGHTING - NORTH WING

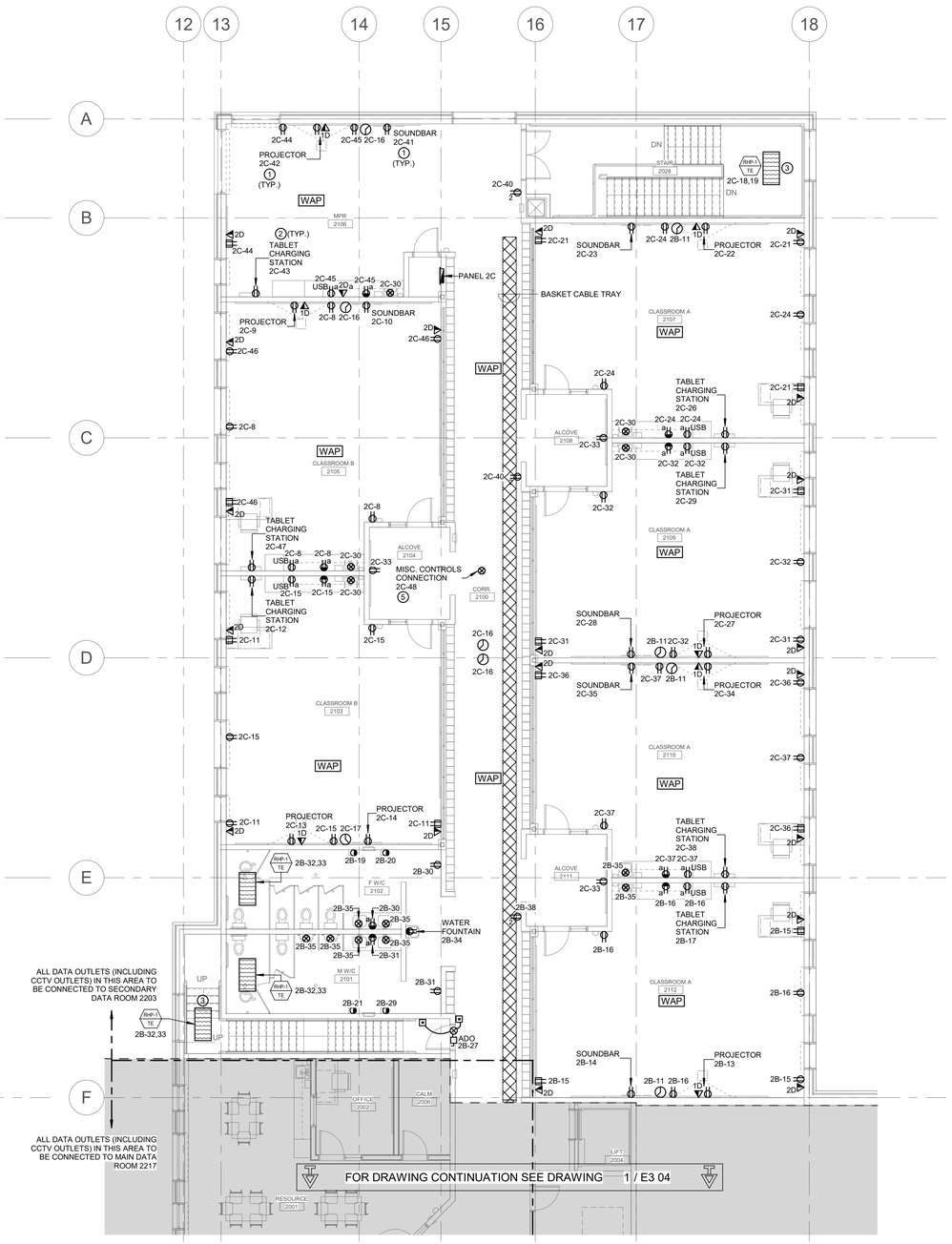
drawn by: **KAM/EM**
approved by: **VEK**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

E2 04



1 E3 01 MAIN FLOOR PLAN - POWER AND VOICE/DATA - EAST WING
SCALE: 1 : 100



2 E3 01 SECOND FLOOR PLAN - POWER AND VOICE/DATA - EAST WING
SCALE: 1 : 100

GENERAL NOTES

A. ALL RECESSED PANELS SHALL HAVE MINIMUM 2 x 1" CONDUIT COMPLETE WITH PULL STRING FROM PANEL TO 300mm x 300mm x 100mm (12" x 12" x 4") JUNCTION BOX IN CEILING SPACE.

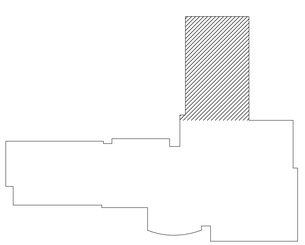
B. ALL 5-15R AND 5-20R RECEPTACLES SHALL BE TAMPER RESISTANT UNLESS LOCATED IN INACCESSIBLE LOCATION (BEHIND FIXED EQUIPMENT OR MOUNTED 2m AFF OR HIGHER).

C. ALL POWER RECEPTACLES, VOICE/DATA AND A/V OUTLETS, LIGHTING SWITCHES ETC. INSTALLED IN ROOMS WITH FINISHED WALLS, SHALL BE RECESSED. SURFACE MOUNTED WIRING DEVICES OR CONDUIT IN FINISHED ROOMS SHALL NOT BE PERMITTED. PROVIDE SLEEVES/CONDUIT THROUGH WALL/FLOOR ASSEMBLIES AS REQUIRED. SEAL ALL PENETRATIONS THROUGH FIRE RATED WALL/FLOOR ASSEMBLIES WITH FIRESTOP MATERIAL.

D. CLOCKS TO BE CONNECTED WITH 120V ONLY (WIRELESS COMMUNICATION INTEGRATED WITH PUBLIC ADDRESS SYSTEM). REFER TO SPECIFICATION SECTION 27 51 16 AND DRAWING E5 03, DETAIL 4.

KEY NOTES (MW)

1. POWER AND DATA OUTLETS FOR WALL MOUNTED PROJECTOR AND SOUNDBAR TO BE INSTALLED AT HIGH LEVEL. COORDINATE LOCATIONS WITH FINAL PLACEMENT OF A/V EQUIPMENT ON SITE.
2. WALL MOUNTED TABLET CHARGING STATION SUPPLIED BY OWNER. COORDINATE MOUNTING LOCATION / HEIGHT OF RECEPTACLE WITH GENERAL CONTRACTOR PRIOR TO ROUGH IN.
3. PROVIDE SUSPENSION CABLES AND ALL REQUIRED ANCHORING FOR SUSPENDED INSTALLATION OF RADIANT HEATING PANEL FROM CEILING STRUCTURE. COORDINATE SUSPENSION LENGTH WITH ARCHITECTURAL.
4. MOUNT DOOR ACTUATOR ON HANDRAIL POST (HANDRAIL BY OTHERS). ROUTE WIRING/CONDUIT FROM CRAWLSPACE OUT TO UNDERSIDE OF HANDRAIL POST. REFER TO ARCHITECTURAL DETAILS 13 & 14 ON DRAWING A6-03.
5. COORDINATE QUANTITY AND LOCATIONS OF CONNECTIONS FOR LOW VOLTAGE CONTROL TRANSFORMERS (AS PROVIDED BY DIV. 25) WITH MECHANICAL CONTRACTOR.



KEYPLAN

REVIT PROJECT SERVER PATH:

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issue / rev.

#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

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ENGINEERS GEOSCIENTISTS MANITOBA
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No. 166

PROVINCE OF MANITOBA
V.E. VAKANE
2023 March 27
Member 30363
REGISTERED PROFESSIONAL ENGINEER

project information

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school division

Hanover School Division
5 Chrysler Gate
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drawing information

MAIN AND SECOND FLOOR PLAN - POWER AND VOICE/DATA - EAST WING

drawn by: **AGS**
approved by: **VEK**

scale: **AS NOTED**
date issued: **2023.03.24**
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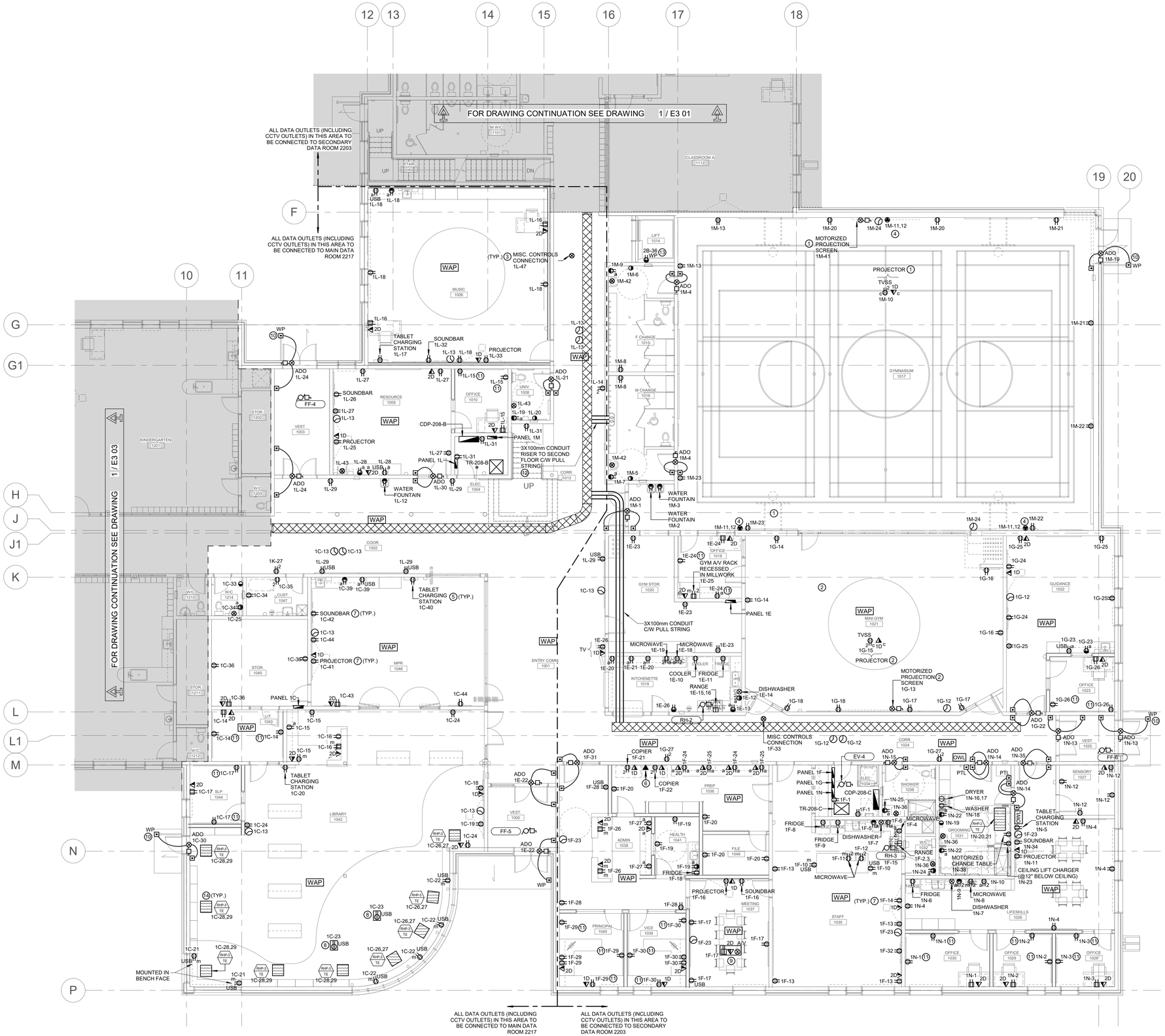
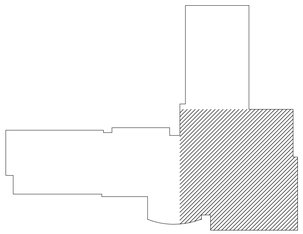
E3 01



1 / E3 02 MAIN FLOOR PLAN - POWER AND VOICE/DATA - CORE SPACES
SCALE: 1 : 100



KEYPLAN

GENERAL NOTES

A. ALL RECESSED PANELS SHALL HAVE MINIMUM 2 x 1" CONDUIT COMPLETE WITH PULL STRING FROM PANEL TO 300mm x 300mm x 100mm (12" x 12" x 4") JUNCTION BOX IN CEILING SPACE.

B. ALL 5-15R AND 5-20R RECEPTACLES SHALL BE TAMPER RESISTANT UNLESS LOCATED IN INACCESSIBLE LOCATION (BEHIND FIXED EQUIPMENT OR MOUNTED 2m AFF OR HIGHER).

C. ALL POWER RECEPTACLES, VOICE/DATA AND A/V OUTLETS, LIGHTING SWITCHES ETC. INSTALLED IN ROOMS WITH FINISHED WALLS, SHALL BE RECESSED. SURFACE MOUNTED WIRING DEVICES OR CONDUIT IN FINISHED ROOMS SHALL NOT BE PERMITTED. PROVIDE SLEEVES/CONDUIT THROUGH WALL/FLOOR ASSEMBLIES AS REQUIRED. SEAL ALL PENETRATIONS THROUGH FIRE RATED WALL/FLOOR ASSEMBLIES WITH FIRESTOP MATERIAL.

D. CLOCKS TO BE CONNECTED WITH 120V ONLY (WIRELESS COMMUNICATION INEGRATED WITH PUBLIC ADDRESS SYSTEM). REFER TO SPECIFICATION SECTION 27 51 16 AND DRAWING E5 03, DETAIL 4.

KEY NOTES

1. GYMNASIUM MOTORIZED PROJECTION SCREEN AND PROJECTOR FURNISHED BY OWNER. INSTALL AND CONNECT MOTORIZED SCREEN AND PROJECTOR CONTROL SWITCHES IN GYM CONTROL PANEL. REFER TO DRAWING E5-02, DETAIL 1.

2. MINI GYM MOTORIZED PROJECTION SCREEN AND PROJECTOR FURNISHED BY OWNER. INSTALL AND CONNECT MOTORIZED SCREEN AND PROJECTOR CONTROL SWITCHES IN MINI GYM CONTROL PANEL. REFER TO DRAWING E5-02, DETAIL 2.

3. COORDINATE QUANTITY AND LOCATIONS OF CONNECTIONS FOR LOW VOLTAGE CONTROL TRANSFORMERS (AS PROVIDED BY DIV. 25) WITH MECHANICAL CONTRACTOR.

4. PROVIDE L6-50R RECEPTACLE FOR TEMPORARY POWER FOR SPECIAL SERVICES/PERFORMANCES. PROVIDE 50A/2P CONTACTOR WITH 120V CONTROL CIRCUIT TO CONTROL RECEPTACLE POWER. INSTALL CONTACTOR IN ELECTRICAL ROOM OR OTHER LOCATION NOT ACCESSIBLE TO GENERAL PUBLIC AS APPLICABLE. CONTACTORS TO BE CONTROLLED BY SWITCH IN GYM CONTROL PANEL.

5. WALL MOUNTED TABLET CHARGING STATION SUPPLIED BY OWNER. COORDINATE MOUNTING LOCATION / HEIGHT OF RECEPTACLE WITH GENERAL CONTRACTOR PRIOR TO ROUGH IN.

6. COORDINATE LOCATION OF ANALOG PHONE OUTLET FOR FAX MACHINE WITH OWNER PRIOR TO ROUGH-IN.

7. POWER AND DATA OUTLETS FOR WALL MOUNTED PROJECTOR AND SOUNDBAR TO BE INSTALLED AT HIGH LEVEL. COORDINATE LOCATIONS WITH FINAL PLACEMENT OF A/V EQUIPMENT ON SITE.

8. RECESSED FLOOR BOXES. COORDINATE LOCATIONS WITH OWNER/FURNITURE LAYOUT. COORDINATE ROUTING OF IN-FLOOR CONDUITS WITH GENERAL CONTRACTOR. REFER TO ELECTRICAL SPECIFICATION FOR FURTHER REQUIREMENTS.

9. RECESSED FLOOR BOX POKE-THRU DEVICE. ROUTE CONDUITS IN CRAWLSPACE. REFER TO ELECTRICAL SPECIFICATION FOR FURTHER REQUIREMENTS.

10. MOUNT DOOR ACTUATOR ON HANDRAIL POST (HANDRAIL BY OTHERS). ROUTE WIRING/CONDUIT FROM CRAWLSPACE OUT TO UNDERSIDE OF HANDRAIL POST. REFER TO ARCHITECTURAL DETAILS 13 & 14 ON DRAWING A6-03.

11. RECEPTACLE TO BE SWITCHED OFF BY LIGHTING CONTROL SYSTEM DURING UNOCCUPIED HOURS. REFER TO SEQUENCE OF OPERATIONS IN SPECIFICATION 26 09 41. LABEL RECEPTACLE AS 'SWITCHED'.

12. COORDINATE RISER LOCATION ON SITE.

13. PROVIDE CLASS A GFCI RECEPTACLE IN ELEVATOR PIT BESIDE LADDER. CONNECT TO DEDICATED CIRCUIT SERVING ELEVATOR HOISTWAY LIGHTING. LIGHTING TO BE CONNECTED UPSTREAM OF GFCI RECEPTACLE.

14. PROVIDE SUSPENSION CABLES AND ALL REQUIRED ANCHORING FOR SUSPENDED INSTALLATION OF RADIANT HEATING PANEL FROM CEILING STRUCTURE. COORDINATE SUSPENSION LENGTH WITH ARCHITECTURAL.

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drawing information

MAIN FLOOR PLAN - POWER AND VOICE/DATA - CORE SPACES

drawn by: **AGS**
approved by: **VEK**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
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E3 02

REVIT PROJECT SERVER PATH
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GENERAL NOTES

A. ALL RECESSED PANELS SHALL HAVE MINIMUM 2 x 1" CONDUIT COMPLETE WITH PULL STRING FROM PANEL TO 300mm x 300mm x 100mm (12" x 12" x 4") JUNCTION BOX IN CEILING SPACE.

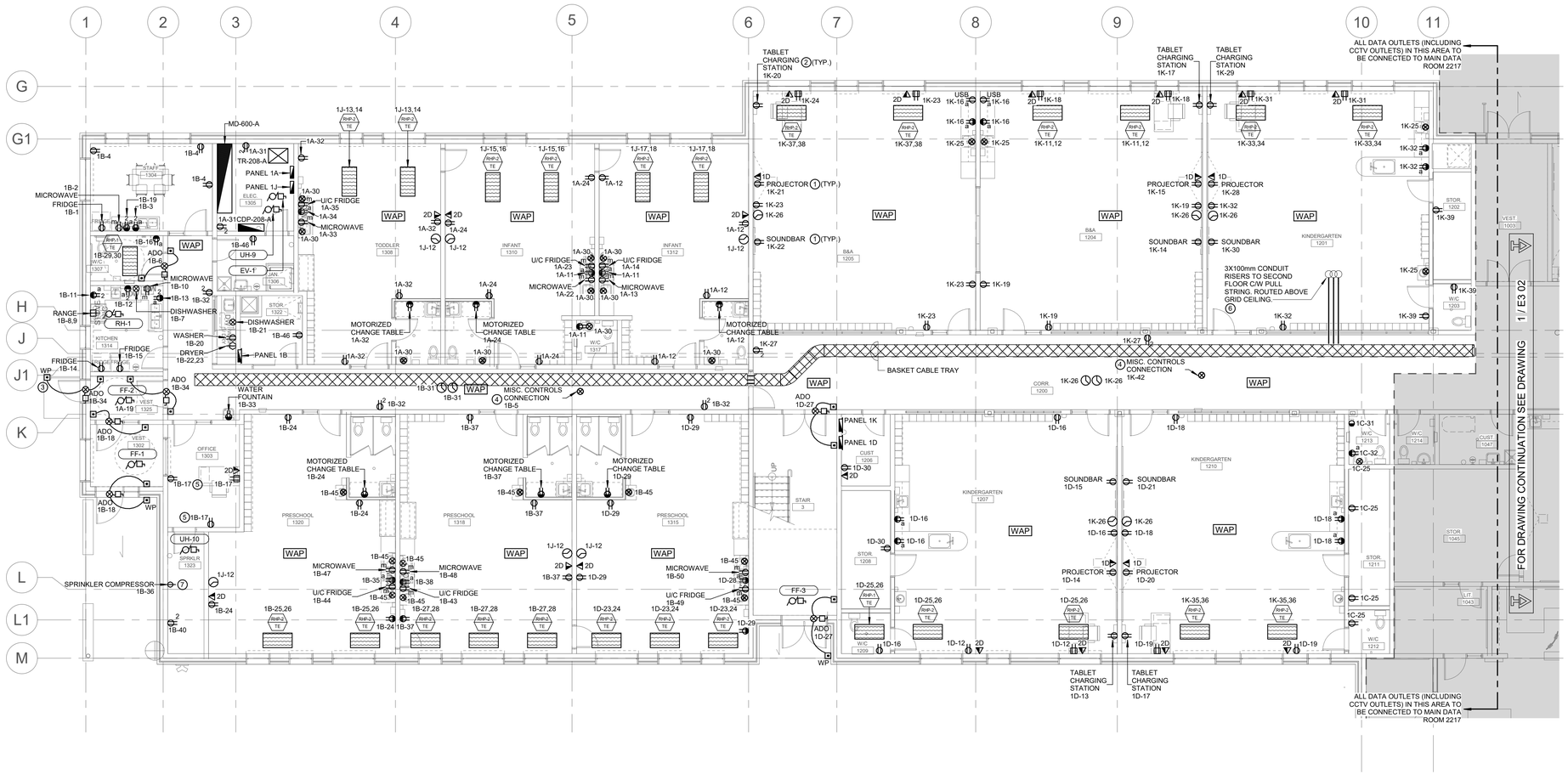
B. ALL 5-15R AND 5-20R RECEPTACLES SHALL BE TAMPER RESISTANT UNLESS LOCATED IN INACCESSIBLE LOCATION (BEHIND FIXED EQUIPMENT OR MOUNTED 2m AFF OR HIGHER).

C. ALL POWER RECEPTACLES, VOICE/DATA AND A/V OUTLETS, LIGHTING SWITCHES ETC. INSTALLED IN ROOMS WITH FINISHED WALLS, SHALL BE RECESSED. SURFACE MOUNTED WIRING DEVICES OR CONDUIT IN FINISHED ROOMS SHALL NOT BE PERMITTED. PROVIDE SLEEVES/CONDUIT THROUGH WALL/FLOOR ASSEMBLIES AS REQUIRED. SEAL ALL PENETRATIONS THROUGH FIRE RATED WALL/FLOOR ASSEMBLIES WITH FIRESTOP MATERIAL.

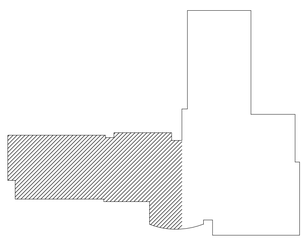
D. CLOCKS TO BE CONNECTED WITH 120V ONLY (WIRELESS COMMUNICATION INEGRATED WITH PUBLIC ADDRESS SYSTEM). REFER TO SPECIFICATION SECTION 27 51 16 AND DRAWING E5 03, DETAIL 4.

KEY NOTES

1. POWER AND DATA OUTLETS FOR WALL MOUNTED PROJECTOR AND SOUNDBAR TO BE INSTALLED AT HIGH LEVEL. COORDINATE LOCATIONS WITH FINAL PLACEMENT OF A/V EQUIPMENT ON SITE.
2. WALL MOUNTED TABLET CHARGING STATION SUPPLIED BY OWNER. COORDINATE MOUNTING LOCATION / HEIGHT OF RECEPTACLE WITH GENERAL CONTRACTOR PRIOR TO ROUGH IN.
3. MOUNT DOOR ACTUATOR ON HANDRAIL POST (HANDRAIL BY OTHERS). ROUTE WIRING/CONDUIT FROM CRAWLSPACE OUT TO UNDERSIDE OF HANDRAIL POST. REFER TO ARCHITECTURAL DETAILS 13 & 14 ON DRAWING A6-03.
4. COORDINATE QUANTITY AND LOCATIONS OF CONNECTIONS FOR LOW VOLTAGE CONTROL TRANSFORMERS (AS PROVIDED BY DIV. 25) WITH MECHANICAL CONTRACTOR.
5. RECEPTACLE TO BE SWITCHED OFF BY LIGHTING CONTROL SYSTEM DURING UNOCCUPIED HOURS. REFER TO SEQUENCE OF OPERATIONS IN SPECIFICATION 26 09 41. LABEL RECEPTACLE AS 'SWITCHED'.
6. COORDINATE RISER LOCATION ON SITE.
7. PROVIDE 5-15R SINGLE RECEPTACLE OUTLET FOR SPRINKLER COMPRESSOR. COORDINATE LOCATION AND REQUIREMENTS WITH SPRINKLER CONTRACTOR.



1 / E3 03 MAIN FLOOR PLAN - POWER AND VOICE/DATA - NORTH WING
SCALE: 1 : 100



KEYPLAN

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Certificate of Authorization
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PROVINCE OF MANITOBA
V.E. UKANE
2023 MARCH 27
Member 30363
REGISTERED PROFESSIONAL ENGINEER

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drawing information

MAIN FLOOR PLAN - POWER AND VOICE/DATA - NORTH WING

drawn by: **AGS**
approved by: **VEK**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

E3 03

REVIT PROJECT SERVER PATH
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GENERAL NOTES

A. ALL RECESSED PANELS SHALL HAVE MINIMUM 2 x 1" CONDUIT COMPLETE WITH PULL STRING FROM PANEL TO 300mm x 300mm x 100mm (12" x 12" x 4") JUNCTION BOX IN CEILING SPACE.

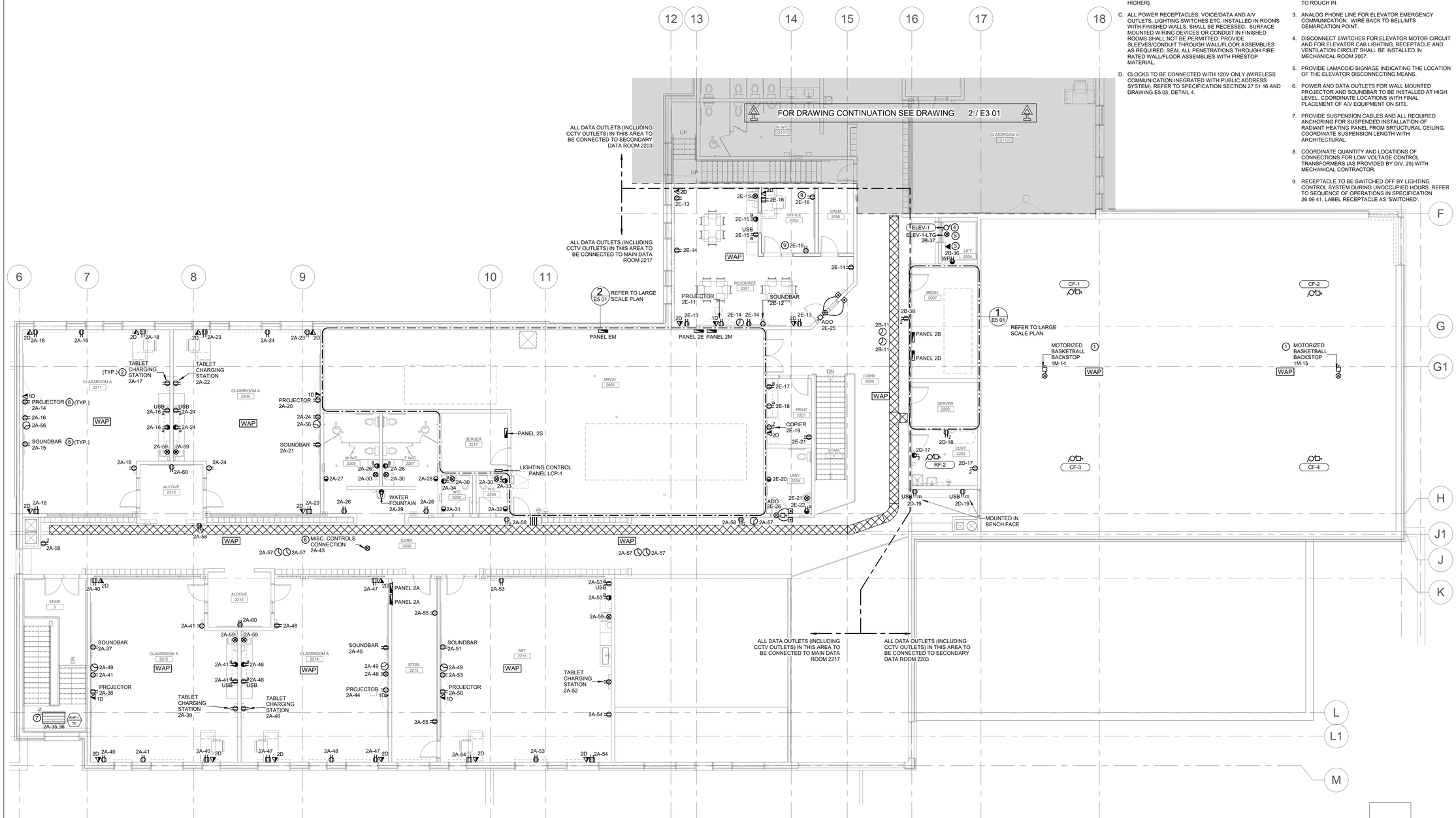
B. ALL 5-15R AND 5-20R RECEPTACLES SHALL BE TAMPER RESISTANT UNLESS LOCATED IN INACCESSIBLE LOCATION (BEHIND FIXED EQUIPMENT OR MOUNTED 2m AFF OR HIGHER).

C. ALL POWER RECEPTACLES, VOICE/DATA AND A/V OUTLETS, LIGHTING SWITCHES ETC. INSTALLED IN ROOMS WITH FINISHED WALLS, SHALL BE RECESSED. SURFACE MOUNTED WIRING DEVICES OR CONDUIT IN FINISHED ROOMS SHALL NOT BE PERMITTED. PROVIDE SLEEVES/CONDUIT THROUGH WALL/FLOOR ASSEMBLIES AS REQUIRED. SEAL ALL PENETRATIONS THROUGH FIRE RATED WALL/FLOOR ASSEMBLIES WITH FIRESTOP MATERIAL.

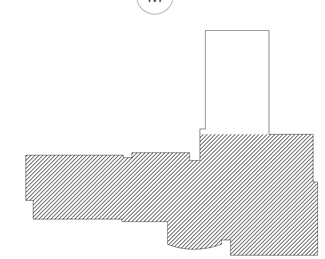
D. CLOCKS TO BE CONNECTED WITH 120V ONLY (WIRELESS COMMUNICATION INEGRATED WITH PUBLIC ADDRESS SYSTEM). REFER TO SPECIFICATION SECTION 27 51 16 AND DRAWING E5 03, DETAIL 4.

KEY NOTES (#)

1. PROVIDE L14-20R RECEPTACLE FOR MOTORIZED BASKETBALL BACKSTOPS. INSTALL LOOSE CONTROL SWITCH IN GYM CONTROL PANEL. WIRE AND CONNECT AS PER MANUFACTURER INSTALLATION INSTRUCTIONS.
2. WALL MOUNTED TABLET CHARGING STATION SUPPLIED BY OWNER. COORDINATE MOUNTING LOCATION / HEIGHT OF RECEPTACLE WITH GENERAL CONTRACTOR PRIOR TO ROUGH IN.
3. ANALOG PHONE LINE FOR ELEVATOR EMERGENCY COMMUNICATION. WIRE BACK TO BELL/MTS DEMARCATION POINT.
4. DISCONNECT SWITCHES FOR ELEVATOR MOTOR CIRCUIT AND FOR ELEVATOR CAB LIGHTING, RECEPTACLE AND VENTILATION CIRCUIT SHALL BE INSTALLED IN MECHANICAL ROOM 2007.
5. PROVIDE LAMACOID SIGNAGE INDICATING THE LOCATION OF THE ELEVATOR DISCONNECTING MEANS.
6. POWER AND DATA OUTLETS FOR WALL MOUNTED PROJECTOR AND SOUNDBAR TO BE INSTALLED AT HIGH LEVEL. COORDINATE LOCATIONS WITH FINAL PLACEMENT OF A/V EQUIPMENT ON SITE.
7. PROVIDE SUSPENSION CABLES AND ALL REQUIRED ANCHORING FOR SUSPENDED INSTALLATION OF RADIANT HEATING PANEL FROM SRTUCTURAL CEILING. COORDINATE SUSPENSION LENGTH WITH ARCHITECTURAL.
8. COORDINATE QUANTITY AND LOCATIONS OF CONNECTIONS FOR LOW VOLTAGE CONTROL TRANSFORMERS (AS PROVIDED BY DIV. 25) WITH MECHANICAL CONTRACTOR.
9. RECEPTACLE TO BE SWITCHED OFF BY LIGHTING CONTROL SYSTEM DURING UNOCCUPIED HOURS. REFER TO SEQUENCE OF OPERATIONS IN SPECIFICATION 26 09 41. LABEL RECEPTACLE AS 'SWITCHED'.



1 SECOND FLOOR PLAN - POWER AND VOICE/DATA - NORTH WING
E3 04
SCALE: 1 : 100



KEYPLAN

REVIT PROJECT SERVER PATH

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drawing information

SECOND FLOOR PLAN - POWER AND VOICE/DATA - NORTH WING

drawn by: **AGS**
approved by: **VEK**

scale: **AS NOTED**
date issued: **2023.03.24**
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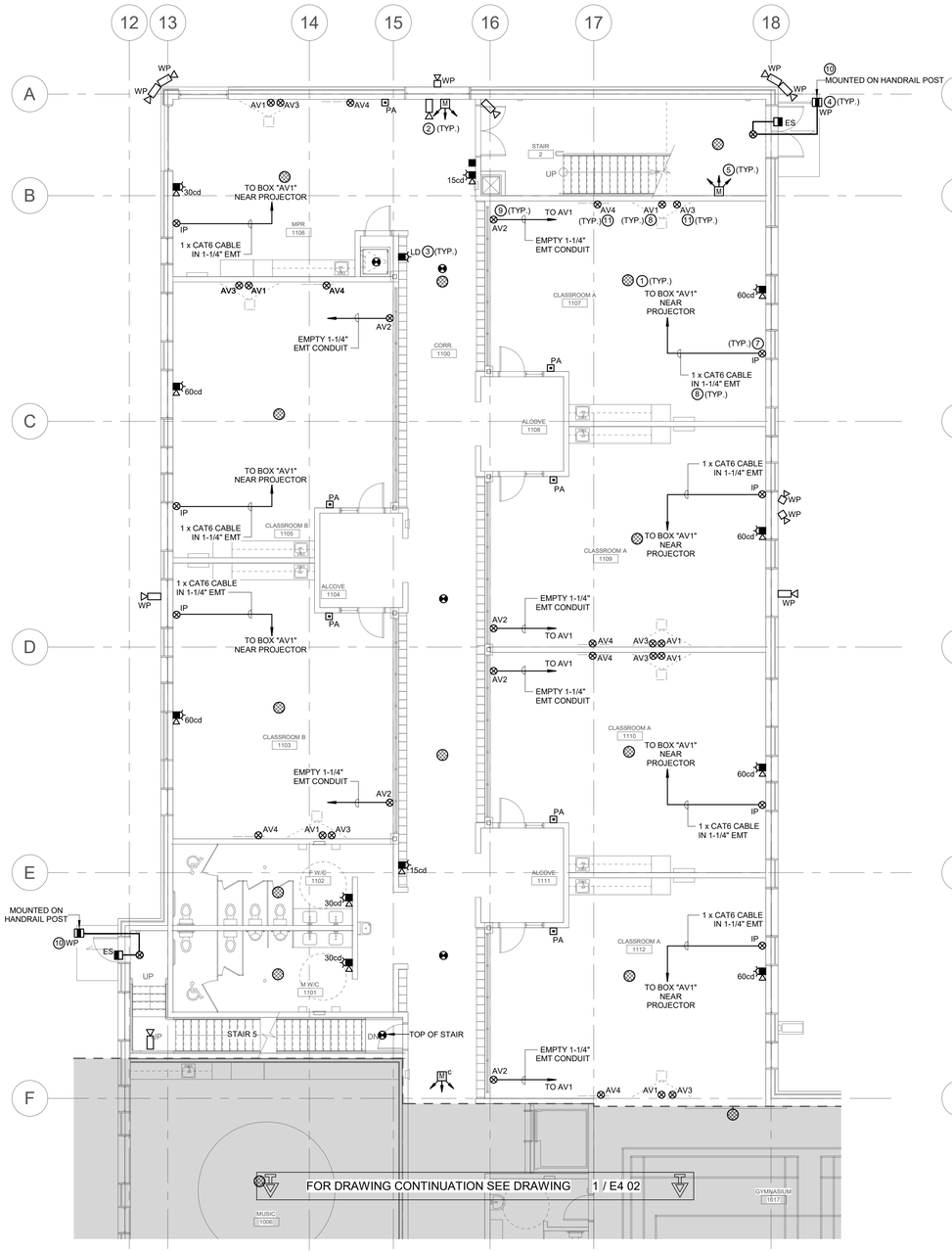
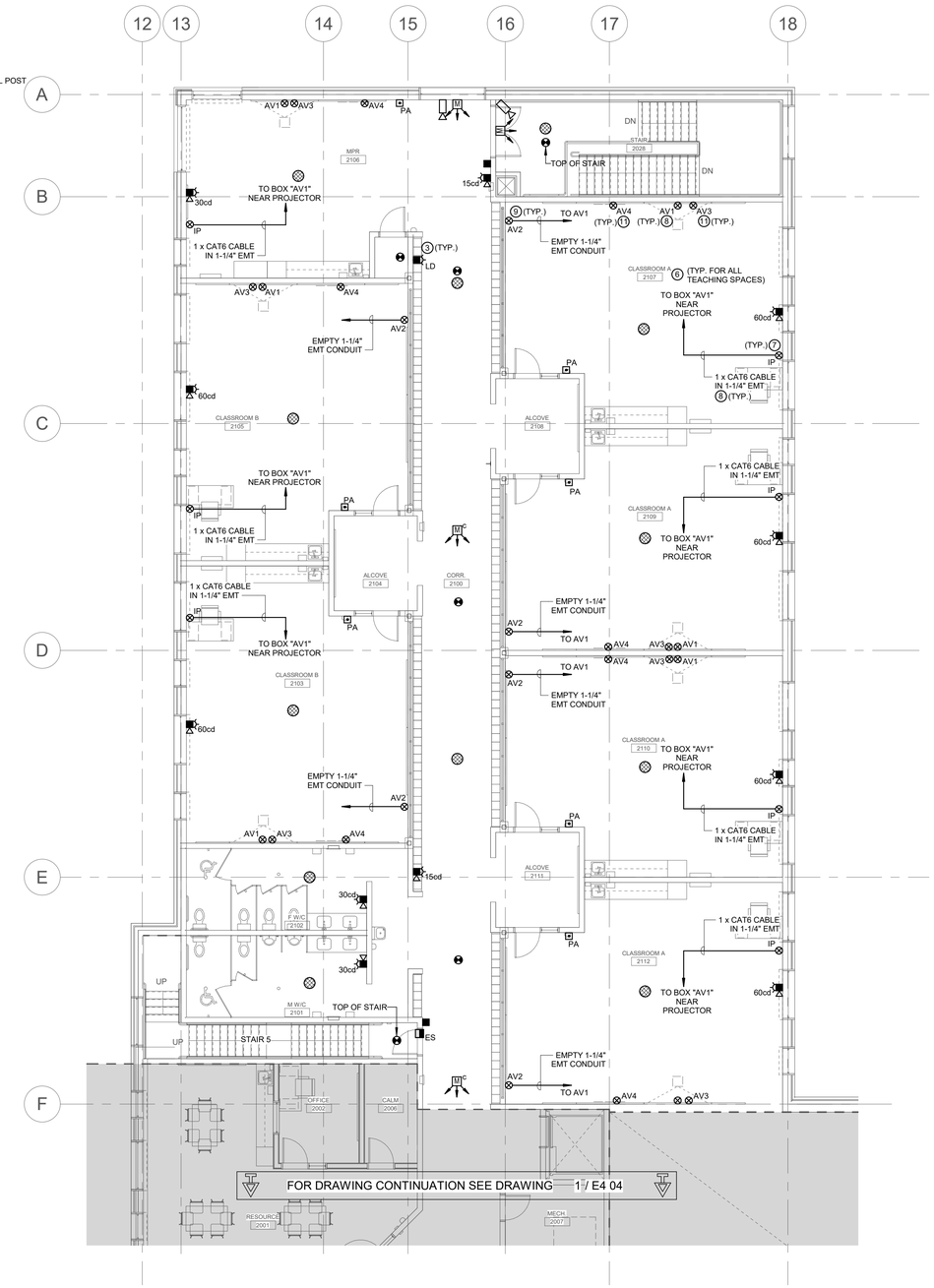
E3 04



1 E4 01 MAIN FLOOR PLAN - SYSTEMS - EAST WING
SCALE: 1 : 100



2 E4 01 SECOND FLOOR PLAN - SYSTEMS - EAST WING
SCALE: 1 : 100

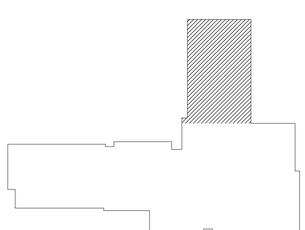
GENERAL NOTES

A. DIVISION 26 TO HIRE AND PAY FONTAINE ELECTRIC TO SUPPLY ALL PA SYSTEM COMPONENTS AND WIRING. DIVISION 26 SHALL PROVIDE EMPTY CONDUIT SYSTEM AND FONTAINE ELECTRIC SHALL INSTALL EQUIPMENT AND WIRING, AND COMMISSION SYSTEM.

B. REFER TO POWER AND DATA DRAWINGS FOR 120V CLOCK AND DOOR AUTO-OPERATOR BUTTON LOCATIONS .

KEY NOTES

1. PROVIDE PUBLIC ADDRESS SYSTEM DEVICES AS SHOWN. REFER TO WIRING DIAGRAM (DRAWING E5 03, DETAIL 4).
2. PROVIDE DATA OUTLET AT CAMERA LOCATION. REFER TO ALTERNATE PRICE #2 FOR PROVISION OF CAMERAS AND MOUNTING HARDWARE (SUPPLIED BY FONTAINE ELECTRIC).
3. PROVIDE LOCK DOWN STROBES AS SHOWN, CONNECTED TO PA SYSTEM. REFER TO WIRING DIAGRAM (DRAWING E5 03, DETAIL 4).
4. PROVIDE EMPTY CONDUITS AND BACK BOXES FOR CARD ACCESS SYSTEM. REFER TO ALTERNATE PRICE #3 FOR PROVISION OF DMP CARD ACCESS SYSTEM EQUIPMENT AND WIRING (SUPPLIED BY FONTAINE ELECTRIC).
5. PROVIDE EMPTY CONDUITS AND BACK BOXES FOR INTRUSION SYSTEM. REFER TO ALTERNATE PRICE #3 FOR PROVISION OF DMP INTRUSION SYSTEM EQUIPMENT AND WIRING (SUPPLIED BY FONTAINE ELECTRIC).
6. PROVIDE BACK BOXES AND EMPTY CONDUIT SYSTEM FOR TEACHING SPACE AV SYSTEMS. REFER TO ALTERNATE PRICE #1 FOR PROVISION OF INPUT PLATE, CABLING AND HD-BASE-T CONTROLLER.
7. PROVIDE BACK BOX AND HD-BASE-T INPUT PLATE AT TEACHER'S DESK LOCATION.
8. PROVIDE CAT 6 CABLE WITH RJ45 MALE CONNECTOR TERMINATED AT INPUT PLATE LOCATION, AND TERMINATED ON RJ45 OUTLET AT OTHER END (BOX "AV1" NEAR PROJECTOR). PROVIDE HD-BASE-T CONTROLLER AND SECURE TO PROJECTOR. PROVIDE CAT6 PATCH CORD BETWEEN BOX "AV1" AND HD-BASE-T CONTROLLER.
9. PROVIDE EMPTY BACK BOX AT ALTERNATE TEACHER'S DESK LOCATION. PROVIDE EMPTY CONDUIT C/W PULL STRING TO BOX AV1 AS SHOWN.
10. MOUNT CARD READER ON HANDRAIL POST (HANDRAIL BY ARCHITECTURAL). ROUTE WIRING/CONDUIT FROM CRAWLSPACE OUT TO UNDERSIDE OF HANDRAIL POST. REFER TO ARCHITECTURAL DETAILS 13 & 14 ON DRAWING A6-03.
11. PROVIDE 3/4" CONDUIT WITH 2#18 SPEAKER WIRE BETWEEN BOX AV3 AND AV4. PROVIDE 3.5M AUDIO JACK WITHIN BOX AV3 AND AV4 AND TERMINATE WIRING ON EACH END.



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ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
SMS Engineering Ltd.
No. 166

PROVINCE OF MANITOBA
V.E. VAKANE
2023 MARCH 27
Member 30363
REGISTERED PROFESSIONAL ENGINEER

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

school division

Hanover School Division
5 Chrysler Gate
Steinbach, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

drawing information

MAIN AND SECOND FLOOR PLAN - SYSTEMS - EAST WING

drawn by: **KAM**
approved by: **VEK**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

E4 01

REVIT PROJECT SERVER PATH

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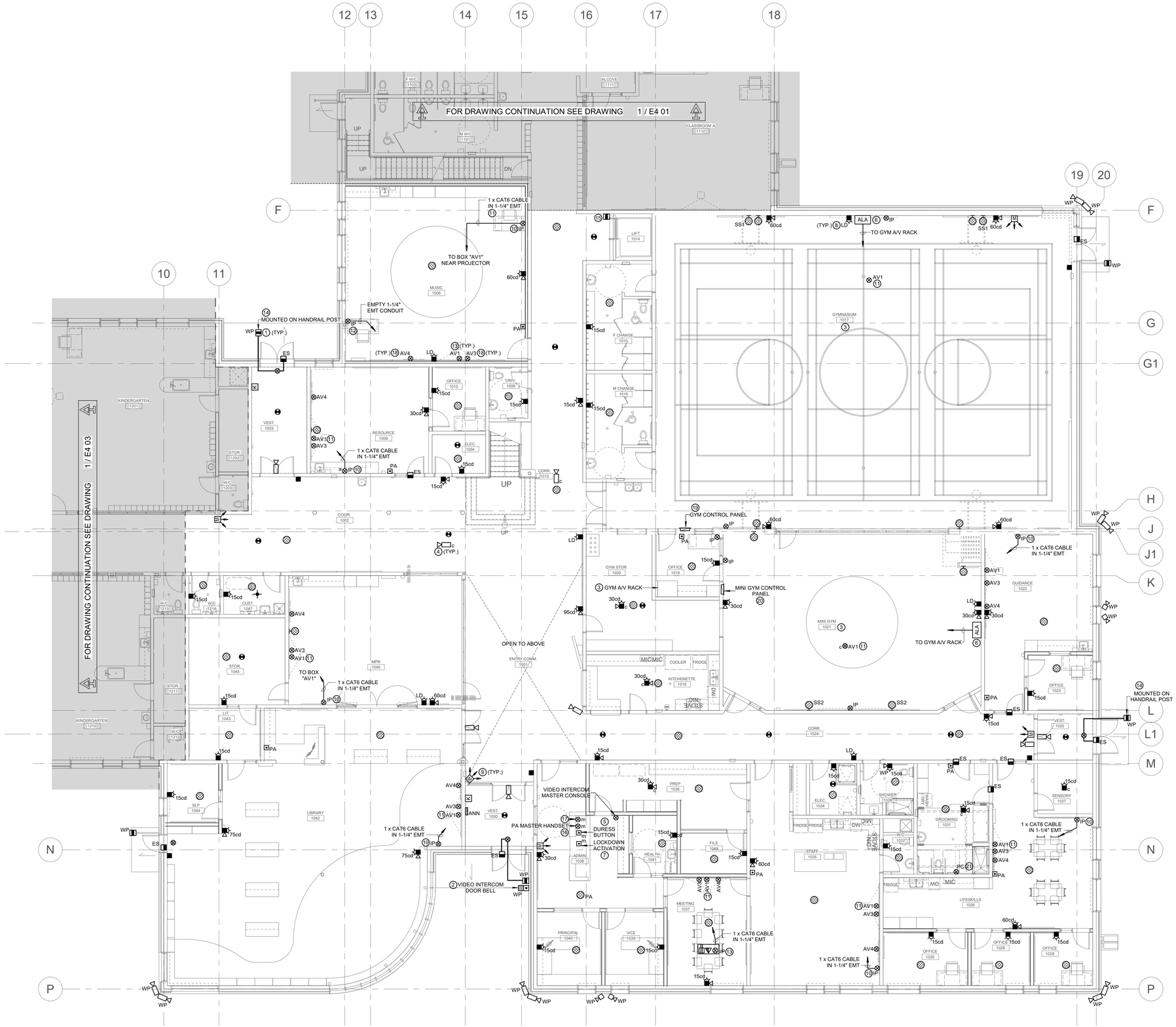


1 E4 02 MAIN FLOOR PLAN - SYSTEMS - CORE SPACES
SCALE: 1 : 100

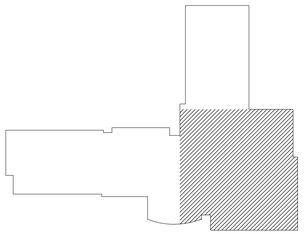
GENERAL NOTES

A. DIVISION 26 TO HIRE AND PAY FONTAINE ELECTRIC TO SUPPLY ALL PA SYSTEM COMPONENTS AND WIRING. DIVISION 26 SHALL PROVIDE EMPTY CONDUIT SYSTEM AND FONTAINE ELECTRIC SHALL INSTALL EQUIPMENT AND WIRING, AND COMMISSION SYSTEM.

B. REFER TO POWER AND DATA DRAWINGS FOR 120V CLOCK AND DOOR AUTO-OPERATOR BUTTON LOCATIONS.

KEY NOTES

1. PROVIDE EMPTY CONDUITS AND BACK BOXES FOR CARD ACCESS SYSTEM. REFER TO ALTERNATE PRICE #3 FOR PROVISION OF DMP CARD ACCESS SYSTEM EQUIPMENT AND WIRING (SUPPLIED BY FONTAINE ELECTRIC). REFER TO DRAWING E5 03, DETAIL 2 AND 3.
2. PROVIDE EMPTY CONDUITS AND BACK BOXES FOR VIDEO INTERCOM SYSTEM. REFER TO ALTERNATE PRICE #4 FOR PROVISION OF VIDEO INTERCOM SYSTEM EQUIPMENT AND WIRING (SUPPLIED BY FONTAINE ELECTRIC).
3. PROVIDE EMPTY CONDUITS AND BACK BOXES FOR GYM AND MINI GYM SOUND SYSTEM EQUIPMENT. REFER TO ALTERNATE PRICE #5 FOR PROVISION OF EQUIPMENT, PROVISION OF WIRING AND INSTALLATION OF EQUIPMENT.
4. PROVIDE DATA OUTLET AT CAMERA LOCATION. REFER TO ALTERNATE PRICE #2 FOR PROVISION OF CAMERAS AND MOUNTING HARDWARE (SUPPLIED BY FONTAINE ELECTRIC).
5. DURESS BUTTON TO BE CONNECTED TO INTRUSION SYSTEM AND WILL INITIATE SILENT ALARM. COORDINATE FINAL MOUNTING LOCATION WITH ARCHITECT.
6. DIV.26 TO PROVIDE ASSISTIVE LISTENING ANTENNA MOUNTED VERTICALLY ON SINGLE GANG BOX C/W STAINLESS STEEL COVER PLATE WITH 1/2" KNOCKOUT AND NYLON BUSHING. PROVIDE BELDEN 1829P SERIES 6 RF COAX CABLE FROM ANTENNA TO ASSITIVE LISTENING TRANSMITTER TO BE PROVIDED AND INSTALLED BY DIV.26.
7. LOCKDOWN ACTIVATION BUTTON TO BE CONNECTED TO PA SYSTEM VIA PA SYSTEM RJ45 JACK. REFER TO KEYNOTE 17. REFER TO WIRING DIAGRAM (DRAWING E5 03, DETAIL 4). COORDINATE FINAL MOUNTING LOCATION WITH ARCHITECT.
8. PROVIDE LOCK DOWN STROBES AS SHOWN, CONNECTED TO PA SYSTEM. REFER TO WIRING DIAGRAM (DRAWING E5 03, DETAIL 4).
9. PROVIDE EMPTY CONDUITS AND BACK BOXES FOR INTRUSION SYSTEM. REFER TO ALTERNATE PRICE #3 FOR PROVISION OF DMP INTRUSION SYSTEM EQUIPMENT AND WIRING (SUPPLIED BY FONTAINE ELECTRIC).
10. PROVIDE BACK BOX AND HD-BASE-T INPUT PLATE.
11. PROVIDE CAT 6 CABLE WITH RJ45 MALE CONNECTOR TERMINATED AT INPUT PLATE LOCATION, AND TERMINATED ON RJ45 OUTLET AT OTHER END (BOX "AV1" NEAR PROJECTOR). PROVIDE HD-BASE-T CONTROLLER AND SECURE TO PROJECTOR. PROVIDE CAT6 PATCH CORD BETWEEN BOX "AV1" AND HD-BASE-T CONTROLLER.
12. PROVIDE EMPTY BACK BOX AT ALTERNATE TEACHER'S DESK LOCATION. PROVIDE EMPTY CONDUIT C/W PULL STRING TO BOX AV1 AS SHOWN.
13. INSTALL HD-BASE-T INPUT PLATE IN FLOOR BOX. REFER TO DRAWING E2-02 FOR FLOOR BOX INFORMATION.
14. MOUNT CARD READER ON HANDRAIL POST (HANDRAIL BY ARCHITECTURAL). ROUTE WIRING/CONDUIT FROM CRAWLSPACE OUT TO UNDERSIDE OF HANDRAIL POST. REFER TO ARCHITECTURAL DETAILS 13 & 14 ON DRAWING A6-03.
15. COORDINATE WITH ELEVATOR SUPPLIER AND INTEGRATE CARD READER WITH ELEVATOR CONTROLLER.
16. PA MASTER HANDSET TO CONNECT TO PA SYSTEM VIA PA SYSTEM RJ45 JACK. REFER TO KEYNOTE 17.
17. PROVIDE DUAL RJ45 OUTLET (FOR PA MASTER HANDSET AND LOCKDOWN ACTIVATION BUTTON) CONNECTED DIRECTLY TO PA SYSTEM CONTROLLER IN PA RACK (SERVER 2217).
18. PROVIDE 3/4" CONDUIT WITH 2#18 SPEAKER WIRE BETWEEN BOX AV3 AND AV4. PROVIDE 3.5M AUDIO JACK WITHIN BOX AV3 AND AV4 AND TERMINATE WIRING ON EACH END.
19. INSTALL AV TOUCHSCREEN REMOTE CONTROL PANEL WITHIN GYM CONTROL PANEL.
20. INSTALL AV TOUCHSCREEN REMOTE CONTROL PANEL WITHIN MINI GYM CONTROL PANEL.
21. PROVIDE EMERGENCY PULL CORD CONNECTED TO PA SYSTEMS.



KEYPLAN

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issue / rev.

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1	2023.03.24	ISSUED FOR CONSTRUCTION

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MAIN FLOOR PLAN -SYSTEMS - CORE SPACES

drawn by: **KAM**
approved by: **VEK**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

E4 02

REVIT PROJECT SERVER PATH
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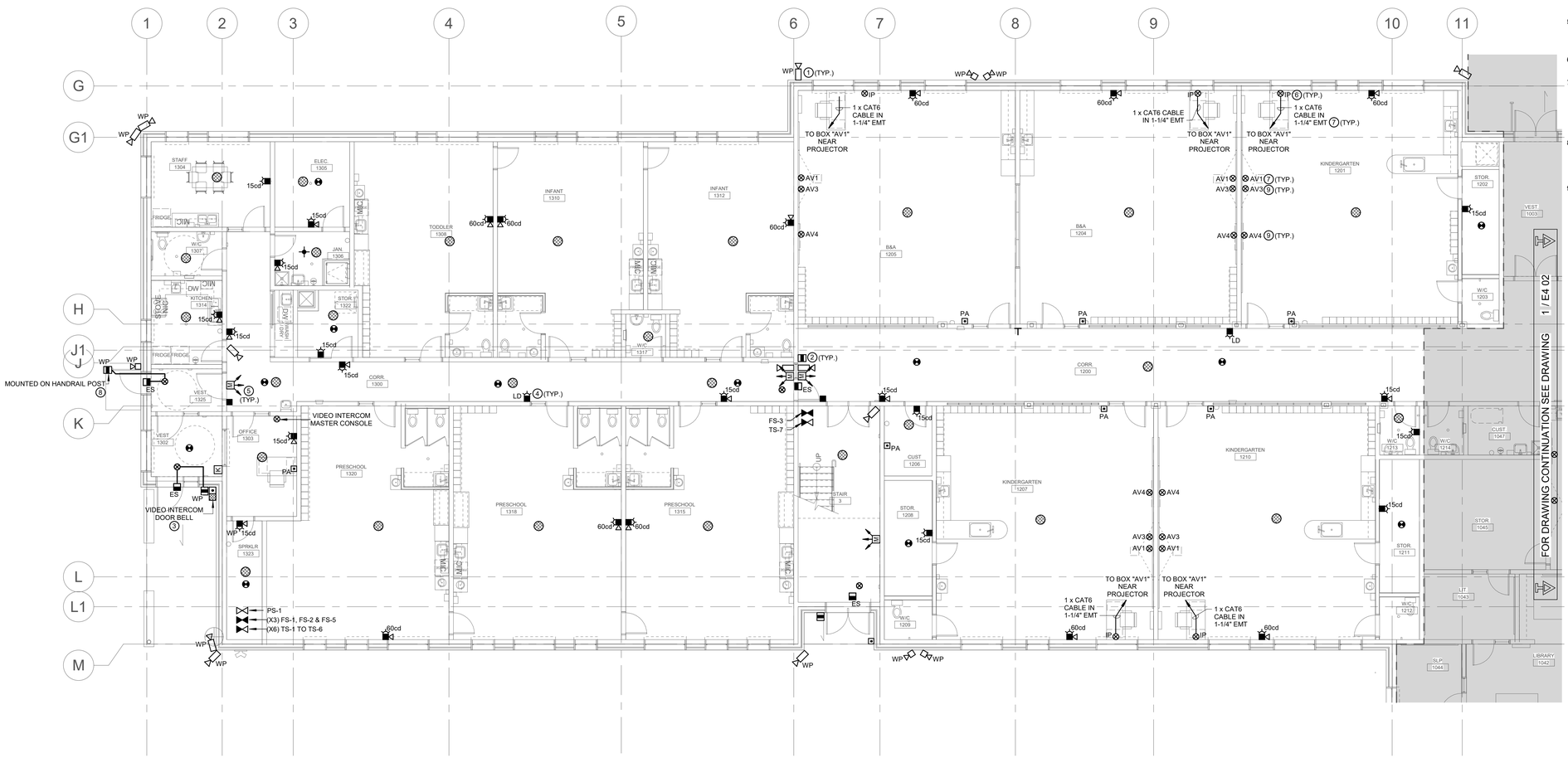
GENERAL NOTES

A. DIVISION 26 TO HIRE AND PAY FONTAINE ELECTRIC TO SUPPLY ALL PA/CLOCK SYSTEM COMPONENTS AND WIRING. DIVISION 26 SHALL PROVIDE EMPTY CONDUIT SYSTEM AND FONTAINE ELECTRIC SHALL INSTALL EQUIPMENT AND WIRING AND COMMISSION SYSTEM.

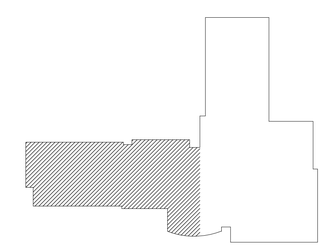
B. REFER TO POWER AND DATA DRAWINGS FOR 120V CLOCK AND DOOR AUTO-OPERATOR BUTTON LOCATIONS.

KEY NOTES

1. PROVIDE DATA OUTLET AT CAMERA LOCATION. REFER TO ALTERNATE PRICE #2 FOR PROVISION OF CAMERAS AND MOUNTING HARDWARE (SUPPLIED BY FONTAINE ELECTRIC).
2. PROVIDE EMPTY CONDUITS AND BACK BOXES FOR CARD ACCESS SYSTEM. REFER TO ALTERNATE PRICE #3 FOR PROVISION OF DMP CARD ACCESS SYSTEM EQUIPMENT AND WIRING (SUPPLIED BY FONTAINE ELECTRIC).
3. PROVIDE EMPTY CONDUITS AND BACK BOXES FOR VIDEO INTERCOM SYSTEM. REFER TO ALTERNATE PRICE #4 FOR PROVISION OF VIDEO INTERCOM SYSTEM EQUIPMENT AND WIRING (SUPPLIED BY FONTAINE ELECTRIC).
4. PROVIDE LOCK DOWN STROBES AS SHOWN, CONNECTED TO PA SYSTEM. REFER TO WIRING DIAGRAM (DRAWING E5 03, DETAIL 4).
5. PROVIDE EMPTY CONDUITS AND BACK BOXES FOR INTRUSION SYSTEM. REFER TO ALTERNATE PRICE #3 FOR PROVISION OF DMP INTRUSION SYSTEM EQUIPMENT AND WIRING (SUPPLIED BY FONTAINE ELECTRIC).
6. PROVIDE BACK BOX AND HD-BASE-T INPUT PLATE AT TEACHER'S DESK LOCATION.
7. PROVIDE CAT 6 CABLE WITH RJ45 MALE CONNECTOR TERMINATED AT INPUT PLATE LOCATION, AND TERMINATED ON RJ45 OUTLET AT OTHER END (BOX "AV1" NEAR PROJECTOR). PROVIDE HD-BASE-T CONTROLLER AND SECURE TO PROJECTOR. PROVIDE CAT6 PATCH CORD BETWEEN BOX "AV1" AND HD-BASE-T CONTROLLER.
8. MOUNT CARD READER ON HANDRAIL POST (HANDRAIL BY ARCHITECTURAL). ROUTE WIRING/CONDUIT FROM CRAWLSPACE OUT TO UNDERSIDE OF HANDRAIL POST. REFER TO ARCHITECTURAL DETAILS 13 AND 14 ON DRAWING A6 03.
9. PROVIDE 3/4" CONDUIT WITH 2#18 SPEAKER WIRE BETWEEN BOX AV3 AND AV4. PROVIDE 3.5M AUDIO JACK WITHIN BOX AV3 AND AV4 AND TERMINATE WIRING ON EACH END.



1 MAIN FLOOR PLAN - SYSTEMS - NORTH WING
E4 03
SCALE: 1 : 100



KEYPLAN

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Hanover School Division
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drawing information

MAIN FLOOR PLAN - SYSTEMS - NORTH WING

drawn by: **KAM**
approved by: **VEK**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

E4 03

GENERAL NOTES

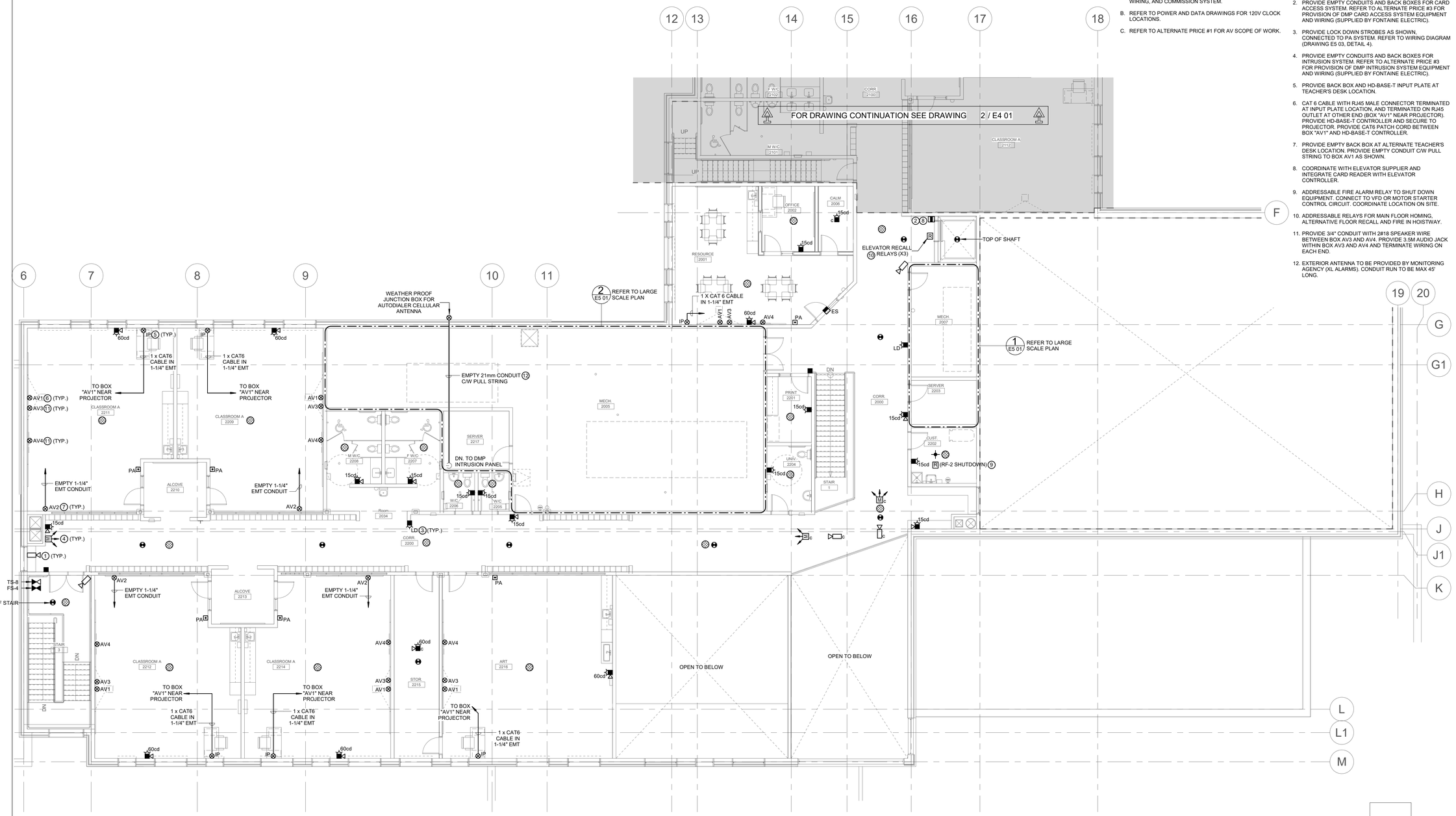
A. DIVISION 26 TO HIRE AND PAY FONTAINE ELECTRIC TO SUPPLY ALL PA SYSTEM COMPONENTS AND WIRING. DIVISION 26 SHALL PROVIDE EMPTY CONDUIT SYSTEM AND FONTAINE ELECTRIC SHALL INSTALL EQUIPMENT AND WIRING, AND COMMISSION SYSTEM.

B. REFER TO POWER AND DATA DRAWINGS FOR 120V CLOCK LOCATIONS.

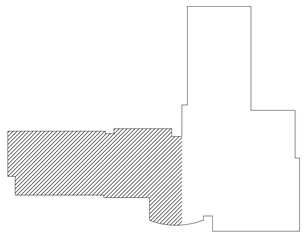
C. REFER TO ALTERNATE PRICE #1 FOR AV SCOPE OF WORK.

KEY NOTES (#8)

1. PROVIDE DATA OUTLET AT CAMERA LOCATION. REFER TO ALTERNATE PRICE #2 FOR PROVISION OF CAMERAS AND MOUNTING HARDWARE (SUPPLIED BY FONTAINE ELECTRIC).
2. PROVIDE EMPTY CONDUITS AND BACK BOXES FOR CARD ACCESS SYSTEM. REFER TO ALTERNATE PRICE #3 FOR PROVISION OF DMP CARD ACCESS SYSTEM EQUIPMENT AND WIRING (SUPPLIED BY FONTAINE ELECTRIC).
3. PROVIDE LOCK DOWN STROBES AS SHOWN, CONNECTED TO PA SYSTEM. REFER TO WIRING DIAGRAM (DRAWING E5 03, DETAIL 4).
4. PROVIDE EMPTY CONDUITS AND BACK BOXES FOR INTRUSION SYSTEM. REFER TO ALTERNATE PRICE #3 FOR PROVISION OF DMP INTRUSION SYSTEM EQUIPMENT AND WIRING (SUPPLIED BY FONTAINE ELECTRIC).
5. PROVIDE BACK BOX AND HD-BASE-T INPUT PLATE AT TEACHER'S DESK LOCATION.
6. CAT 6 CABLE WITH RJ45 MALE CONNECTOR TERMINATED AT INPUT PLATE LOCATION, AND TERMINATED ON RJ45 OUTLET AT OTHER END (BOX "AV1" NEAR PROJECTOR). PROVIDE HD-BASE-T CONTROLLER AND SECURE TO PROJECTOR. PROVIDE CAT6 PATCH CORD BETWEEN BOX "AV1" AND HD-BASE-T CONTROLLER.
7. PROVIDE EMPTY BACK BOX AT ALTERNATE TEACHER'S DESK LOCATION. PROVIDE EMPTY CONDUIT C/W PULL STRING TO BOX AV1 AS SHOWN.
8. COORDINATE WITH ELEVATOR SUPPLIER AND INTEGRATE CARD READER WITH ELEVATOR CONTROLLER.
9. ADDRESSABLE FIRE ALARM RELAY TO SHUT DOWN EQUIPMENT. CONNECT TO VFD OR MOTOR STARTER CONTROL CIRCUIT. COORDINATE LOCATION ON SITE.
10. ADDRESSABLE RELAYS FOR MAIN FLOOR HOMING, ALTERNATIVE FLOOR RECALL AND FIRE IN HOISTWAY.
11. PROVIDE 3/4" CONDUIT WITH 2#18 SPEAKER WIRE BETWEEN BOX AV3 AND AV4. PROVIDE 3.5M AUDIO JACK WITHIN BOX AV3 AND AV4 AND TERMINATE WIRING ON EACH END.
12. EXTERIOR ANTENNA TO BE PROVIDED BY MONITORING AGENCY (XL ALARMS). CONDUIT RUN TO BE MAX 45' LONG.



1 / E4 04 SECOND FLOOR PLAN - SYSTEMS - NORTH WING
SCALE: 1 : 100



KEYPLAN

REVIT PROJECT SERVER PATH

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drawing information

SECOND FLOOR PLAN - SYSTEMS - NORTH WING

drawn by: **KAM**
approved by: **VEK**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
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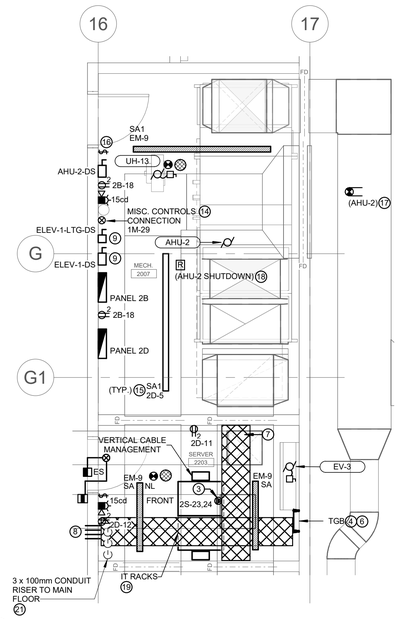
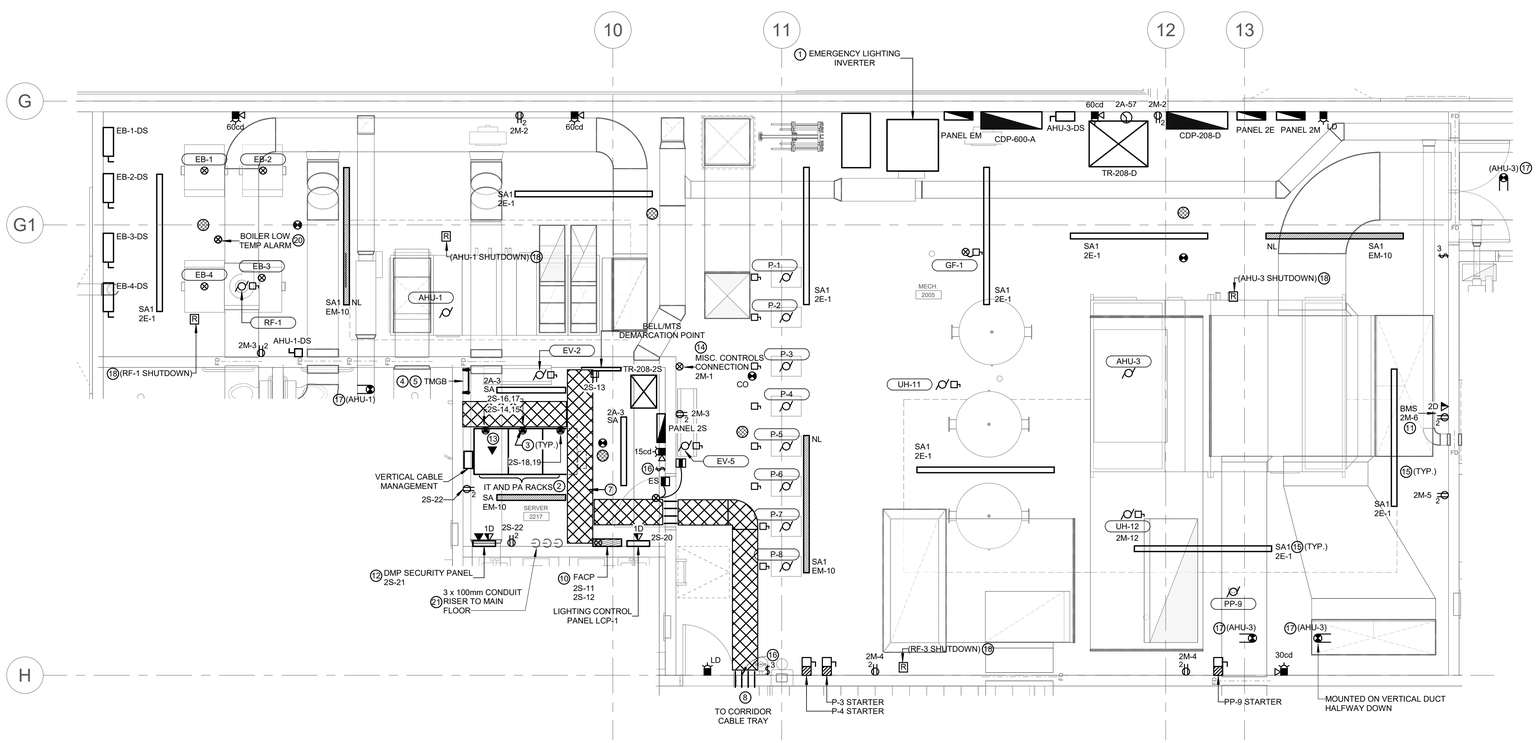
E4 04



1 E5 01 ROOMS MECHANICAL 2007 & SERVER 2203 - POWER AND SYSTEMS LARGE SCALE PLAN

SCALE: 1 : 50



2 E5 01 ROOMS MECHANICAL 2005 & SERVER 2217 - POWER AND SYSTEMS LARGE SCALE PLAN

SCALE: 1 : 50

GENERAL NOTES

A. CLOCKS TO BE CONNECTED WITH 120V ONLY (WIRELESS COMMUNICATION INEGRATED WITH PUBLIC ADDRESS SYSTEM). REFER TO SPECIFICATION SECTION 27 51 16 AND DRAWING E5 03, DETAIL 4.

B. REFER TO DRAWING E4 04 FOR ALTERNATE PRICES ASSOCIATED WITH CARD ACCESS AND INTRUSION SYSTEMS.

KEY NOTES

1. PROVIDE EMERGENCY LIGHTING INVERTER, C/W INTEGRAL 12 CIRCUIT PANELBOARD TO FEED ALL EXIT SIGNS AND EMERGENCY LIGHT FIXTURES.
2. PROVIDE ONE ACTIVE RACK, ONE PASSIVE RACK AND ONE PA RACK IN MAIN TELECOM ROOM 2217. REFER TO SPECIFICATION 27 10 05 AND 27 51 16.
3. NEMA L5-30R TWISTLOCK RECEPTACLES FOR RACK MOUNTED PDU'S AND UPS. RECEPTACLES TO BE INSTALLED ON OVERHEAD CABLE TRAY ABOVE CABINET. CONFIRM RECEPTACLE RATING WITH OWNER PRIOR TO INSTALLATION.
4. CONNECT GROUNDING CONDUCTOR USING COMPRESSION CONNECTOR ON THE SIDE OF THE GROUND BAR.
5. 12" LONG TELECOMMUNICATION MAIN GROUND BUS (TMGB) ON INSULATED BUSHINGS. CONNECT TMGB TO GROUND GRID WITH BCT (BONDING CONDUCTOR FOR TELECOMMUNICATIONS) USING COMPRESSION CONNECTORS AND #3/0 FT4 GROUND CABLE.
6. 12" LONG TELECOMMUNICATION GROUND BUS (TGB) ON INSULATED BUSHINGS. CONNECT TGB TO TMGB, LOCATED IN SERVER ROOM 2217, WITH BCT (BONDING CONDUCTOR FOR TELECOMMUNICATIONS) USING COMPRESSION CONNECTORS AND #3/0 FT4 GROUND CABLE.
7. MINIMUM 500mm (WIDE) X 100mm (DEEP) BASKET CABLE TRAY LOCATED AT LEVEL ABOVE RACK. COORDINATE EXACT LOCATION WITH LIGHTING AND HVAC PRIOR TO ROUGH-IN. PROVIDE WATERFALL DROPS FOR CABLING TO ASSOCIATED CABINET.
8. 3 X 100mm RE-ENTRY CONDUIT SLEEVE THROUGH WALL. FIRESTOP AROUND CONDUIT AND CABLES WITHIN AND FIRESTOP UNUSED CONDUIT.
9. DISCONNECT SWITCHES FOR ELEVATOR MOTOR CIRCUIT AND FOR ELEVATOR CAB LIGHTING. RECEPTACLE AND VENTILATION CIRCUIT SHALL BE CAPABLE OF BEING LOCKED IN OPEN POSITION AND SHALL BE INSTALLED IN ROOM MECH. 2007.
10. PROVIDE FIRE ALARM CONTROL PANEL. COORDINATE POWER REQUIREMENTS WITH SUPPLIER.
11. PROVIDE POWER AND DATA CONNECTIONS FOR BUILDING AUTOMATION SYSTEM CONTROL PANEL AS PROVIDED BY DIV. 25. COORDNATE LOCATION WITH MECHANICAL CONTRACTOR.
12. PROVIDE 120V POWER, ANALOG PHONE LINE AND DATA CONNECTION FOR DMP SECURITY PANEL.
13. PROVIDE ANALOG PHONE LINE FOR VOIP PHONE SYSTEM FURNISHED BY OWNER IN "ACTIVE" EQUIPMENT RACK. COORDINATE WITH OWNER'S IT DEPARTMENT FOR LOCATION.
14. COORDNATE QUANTITY AND LOCATIONS OF CONNECTIONS FOR LOW VOLTAGE CONTROL TRANSFORMERS (AS PROVIDED BY DIV. 25) WITH MECHANICAL CONTRACTOR.
15. PROVIDE SUPPORTS AS REQUIRED TO ALLOW INSTALLATION OF LUMINAIRES BELOW MECHANICAL DUCTS AND/OR PIPING. SUSPENSION DIRECTLY FROM DUCTS SHALL NOT BE PERMITTED.
16. LINE VOLTAGE SWITCH.
17. DUCT TYPE SMOKE DETECTOR SHALL BE INSTALLED IN MAIN SUPPLY DUCT(S), DOWN STREAM OF MIXING BOX, FILTER AND FAN.
18. ADDRESSABLE FIRE ALARM RELAY TO SHUT DOWN EQUIPMENT. CONNECT TO VFD OR MOTOR STARTER CONTROL CIRCUIT. COORDINATE LOCATION ON SITE.
19. PROVIDE ONE ACTIVE RACK AND ONE PASSIVE RACK IN SECONDARY TELECOM ROOM 2203. REFER TO SPECIFICATION 27 10 05.
20. CONNECT BOILER LOW TEMP ALARM TO DMP INTRUSION SYSTEM PANEL IN SERVER 2217. COORDINATE WITH MECHANICAL FOR BOILER CONNECTION POINT.
21. COORDINATE RISER CONDUIT LOCATIONS ON SITE.

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drawing information

ELECTRICAL LARGE SCALE PLANS

drawn by: **AGS**
approved by: **VEK**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

E5 01

REVIT PROJECT SERVER PATH

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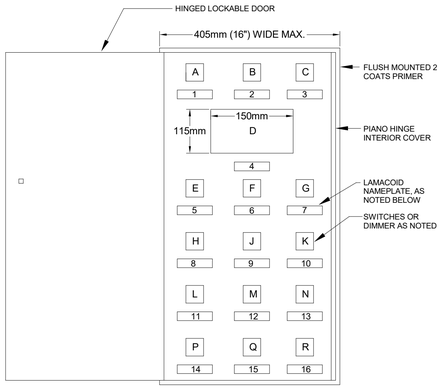
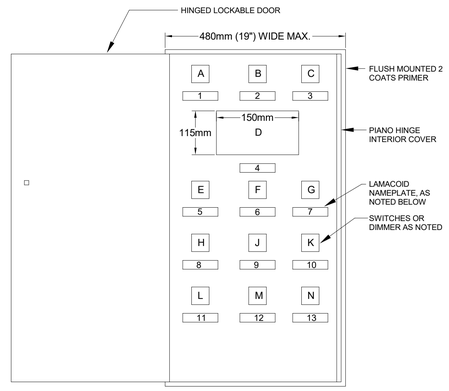


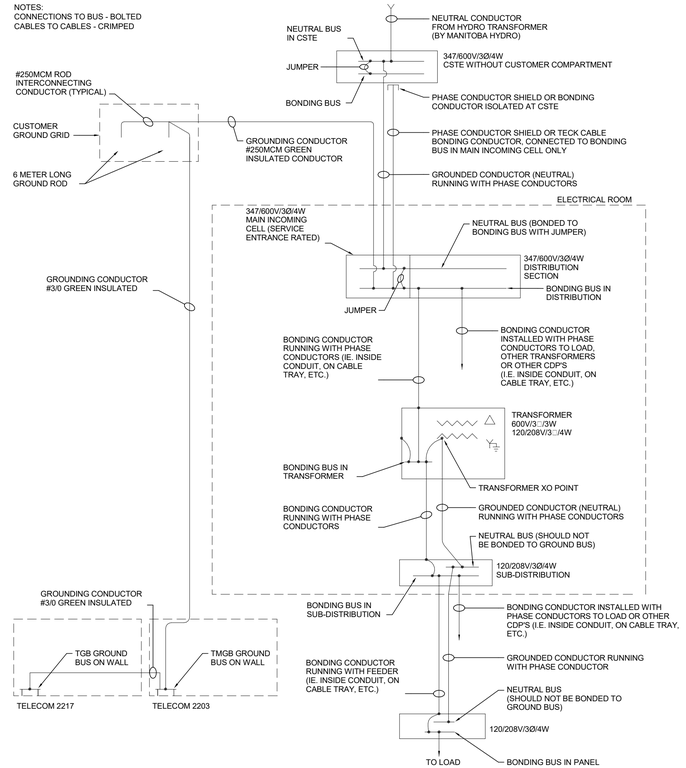
LAMACOID NAMEPLATES	SWITCHES	
1. - GYMNASIUM LIGHTS	A	LOW VOLTAGE DIMMER A-C
2. - GYMNASIUM LIGHTS	B	
3. - GYMNASIUM LIGHTS	C	
4. - GYM AV CONTROLLER	D	TOA M-800RCT-AM LCD TOUCH SCREEN (BY DIV. 26)
5. - SPARE	E	20A-1P SWITCH
6. - SPARE	F	
7. - SPARE	G	
8. - CEILING PROP FANS	H	PROP FAN SPEED CONTROLLER (PROVIDED BY MECHANICAL)
9. - BASKETBALL HOOP (NORTH)	J	BASKETBALL HOOP RAISE/LOWER SWITCH
10. - BASKETBALL HOOP (SOUTH)	L	
11. - PROJECTION SCREEN	M	RAISE/LOWER SWITCH BY SCREEN SUPPLIER
12. - OVERHEAD PROJECTOR	N	20A-1P SWITCH
13. - SPARE	O	
14. - GYM EVENT POWER RCPT (E)	P	
15. - GYM EVENT POWER RCPT (NW)	Q	
16. - GYM EVENT POWER RCPT (SW)	R	

1 / E5 02 GYM ELECTRICAL CONTROL PANEL ①
SCALE: NTS



LAMACOID NAMEPLATES	SWITCHES	
1. - MINI GYM LIGHTS	A	LOW VOLTAGE DIMMER A-C
2. - MINI GYM LIGHTS	B	
3. - SPACE	C	SPACE
4. - MINI GYM AV CONTROLLER	D	TOA M-800RCT-AM LCD TOUCH SCREEN (BY DIV. 26)
5. - SPARE	E	SPARE 20A-1P SWITCH
6. - SPARE	F	
7. - SPARE	G	
8. - PROJECTION SCREEN	H	RAISE/LOWER SWITCH BY SCREEN SUPPLIER
9. - OVERHEAD PROJECTOR	J	20A-1P SWITCH
10. - SPARE	L	SPARE 20A-1P SWITCH
11. - SPARE	M	
12. - SPARE	N	
13. - SPARE	O	

2 / E5 02 MINI GYM ELECTRICAL CONTROL PANEL ①
SCALE: NTS



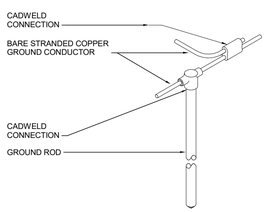
3 / E5 02 GROUNDING DETAIL - CSTE WITHOUT CUSTOMER COMPARTMENT ②③
SCALE: NTS

GENERAL NOTES

A. REFER TO LAYOUT DRAWINGS FOR EXACT QUANTITIES OF DEVICES.

KEY NOTES

1. GYM/MINI GYM CONTROL PANELS TO HAVE BARRIER TO SEPARATE 120/208V WIRING FROM LOW VOLTAGE WIRING. GYM CONTROL PANEL WIDTH IS LIMITED TO 405MM (16") WIDE MAXIMUM. MINI GYM PANEL TO BE STANDARD WIDTH (TYPICALLY 480MM/19").
2. PHASE BUS IN EQUIPMENT AND PHASE CONDUCTORS NOT SHOWN.
3. BONDING CONDUCTORS IN FREE AIR INSIDE BUILDING SHALL BE FT-4 RATED.
4. COORDINATE WITH STRUCTURAL FOR INSTALLATION OF ANCHOR BOLT TO SUIT MOUNTING PLATE.
5. BOLLARDS AND BASE BY LANDSCAPE ARCHITECTURAL.



4 / E5 02 GROUND ROD DETAIL
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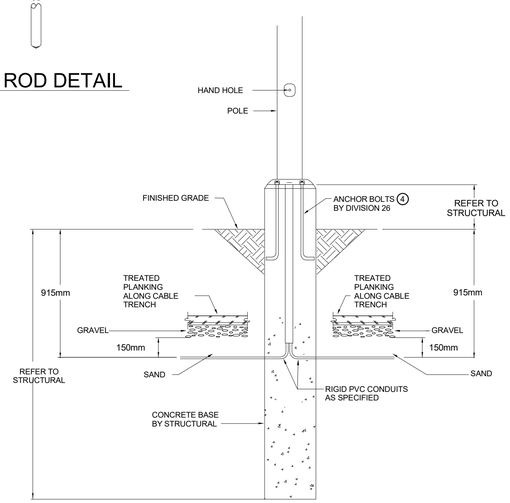

5 / E5 02 POLE BASE DETAIL
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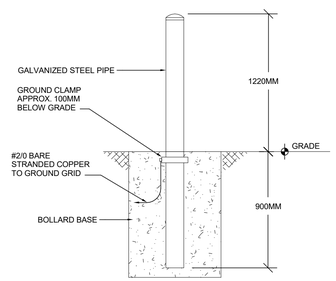
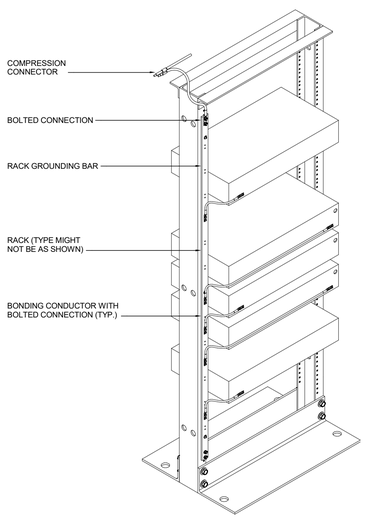


6 / E5 02 TYPICAL BOLLARD INSTALLATION DETAIL ⑤
SCALE: NTS



7 / E5 02 TYPICAL RACK GROUNDING DETAIL
SCALE: NTS

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approved by: **VEK**

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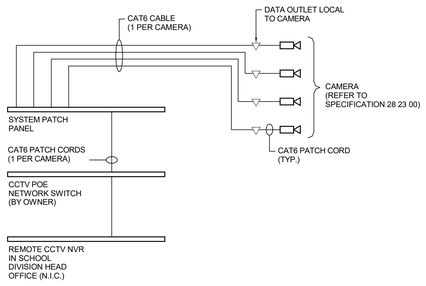
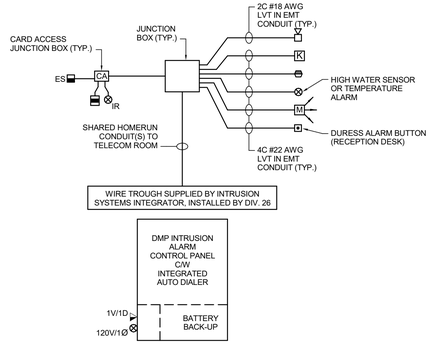
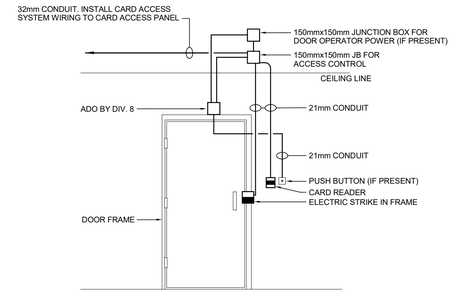
E5 02



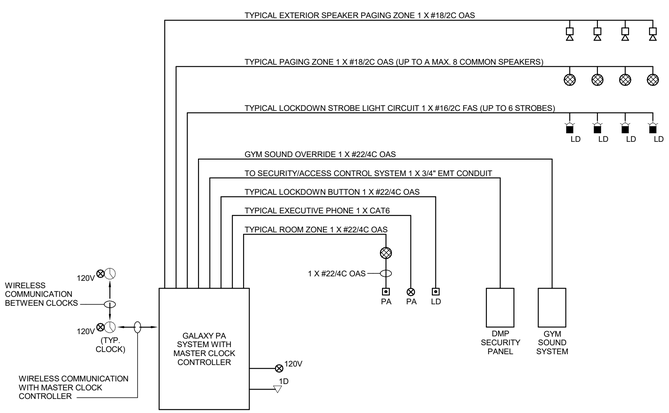
1 E5 03 CCTV SYSTEM WIRING DIAGRAM
SCALE: NTS



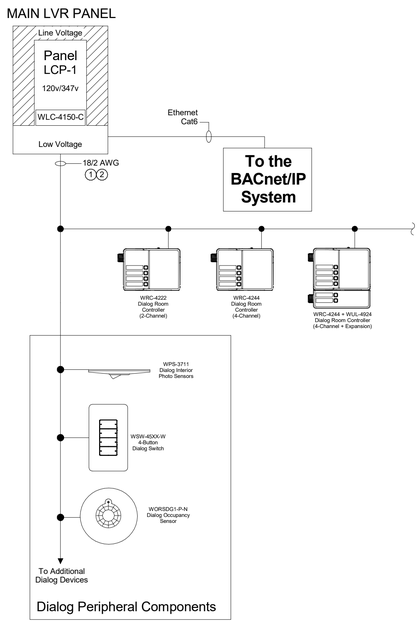
2 E5 03 INTRUSION ALARM AND CARD ACCESS SYSTEM WIRING DIAGRAM 3 4 5
SCALE: NTS



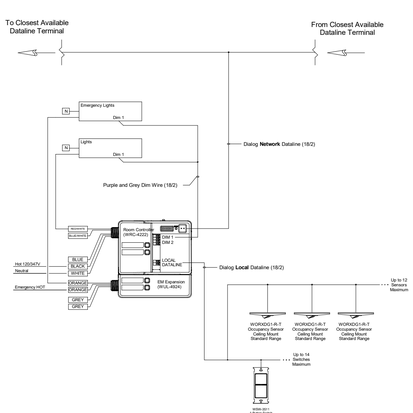
3 E5 03 TYPICAL CARD ACCESS WIRING DETAIL
SCALE: NTS

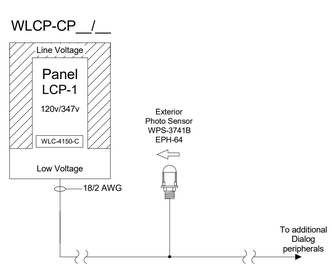


4 E5 03 PUBLIC ADDRESS/CLOCK/LOCKDOWN STROBE WIRING DIAGRAM
SCALE: NTS

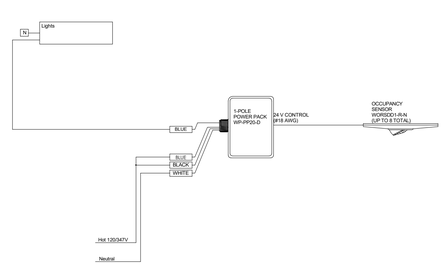


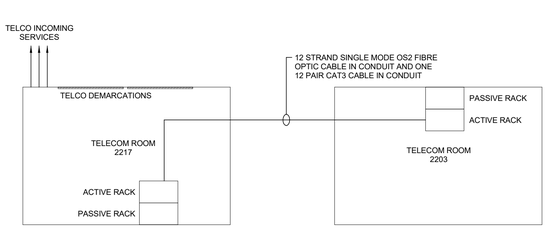
5 E5 03 TYPICAL DOUGLAS LIGHTING CONTROL WIRING DIAGRAM
SCALE: NTS





6 E5 03 DOUGLAS FIELD DEVICE WIRING DIAGRAM 6 7 8
SCALE: NTS





7 E5 03 NETWORK RISER DIAGRAM
SCALE: NTS

GENERAL NOTES

A. REFER TO LAYOUT DRAWINGS FOR EXACT QUANTITIES OF DEVICES.

KEY NOTES (KP)

1. THE DIALOG DATA SIGNAL IS SUPPLIED BY THE LIGHTING CONTROL UNIT (LCU) OR ROOM CONTROLLER.
2. THE DIALOG DATA SIGNAL IS 18/2 AWG, POLARITY INSENSITIVE TWISTED OR NON-TWISTED PAIR WITH A MAXIMUM SINGLE RUN LENGTH OF 1000ft (300m) AND A TOTAL AGGREGATED WIRE LENGTH OF 3000ft (900m). THE DATA SIGNAL TOPOLOGY CAN BE T-TAPPED, BUS OR STAR CONFIGURATION.
3. CONDUIT CONFIGURATION IS CONCEPTUAL AND TO BE COORDINATED WITH CARD ACCESS/INTRUSION SYSTEM CONTRACTOR.
4. DIVISION 26 TO PROVIDE CONDUIT SYSTEM PATHWAY FROM EACH DEVICE TO THE TROUGH FOR HOMERUN WIRING BY CARD ACCESS/INTRUSION SYSTEM CONTRACTOR.
5. REFER TO SPECIFICATION SECTION 28 16 00.
6. FOLLOW MANUFACTURER INSTRUCTIONS FOR PROPER PRODUCT PLACEMENT, INSTALLATION, WIRING AND OPERATION.
7. DIAGRAM IS TYPICAL FOR SPACE TYPE. PROVIDE PROPER QUANTITY AND TYPE OF OCCUPANCY SENSORS, SWITCHES, ROOM CONTROLLERS, DAYLIGHTING SENSORS, ETC., PER CODE REQUIREMENT FOR EACH SPACE.
8. USE 18/2 AWG DATALINE WITH A TOPOLOGY FREE, POLARITY FREE WIRING ARRANGEMENT TO CONNECT LIGHTING CONTROL DEVICES.

DIALOG SYSTEM CONSIDERATIONS

- BASIC COMPONENTS INCLUDED IN A ENERGY COMPLIANT SYSTEM INCLUDE THE MASTER LIGHTING CONTROL PANEL (LCU) AND PERIPHERAL DEVICES.
- THE LCU ALLOWS FOR UP TO 252 CONTROLLABLE RELAYS / DIMMING CHANNELS.
- ADDITIONAL RELAY / DIMMING CHANNELS ARE POSSIBLE WHEN A GLOBAL WEB SERVER (GWS) AND LCUS ARE ADDED TO THE SYSTEM.
- UP TO 25 LCUS ARE ABLE TO BE ADDED TO A SINGLE CENTRALLY CONTROLLED SYSTEM.
- BY USING 18/2 AWG WIRE, BOTH DATA AND POWER ARE TRANSMITTED TO EACH PERIPHERAL DEVICE.
- MULTIPLE PERIPHERAL DEVICES CAN BE CONNECTED TO THE SAME DATALINE AND CAN BE CONFIGURED IN A DAISY-CHAIN, OR STAR CONFIGURATION.
- THE DATALINE HAS A MAXIMUM LENGTH OF 1000FT WITH A TOTAL AGGREGATED LENGTH OF 3000FT FROM ALL DATALINES ORIGINATING FROM AN LCU
- PERIPHERALS CAN BE CONFIGURED IN FIELD USING A WIRELESS HANDHELD COMMISSIONING TOOL, AND TIMEOUTS/SENSITIVIES/SPECIAL SETTING CAN BE PROGRAMMED IN FIELD.
- ROOM CONTROLLERS ARE CONNECTED TO THE LCU IN THE SAME MANNER AS PERIPHERAL DEVICES USING THE SAME 18/2 AWG DATALINE AND DOES NOT REQUIRE SPECIAL HOMERUN BACK TO THE LCU.
- ROOM CONTROLLERS CAN ACT AS REMOTE RELAY/DIMMING PACKS, AND INTEGRATE SEAMLESSLY WITH THE CENTRALIZED LCU SYSTEM.
- BOTH ROOM CONTROLLERS AND LCUS HAVE INTEGRAL BACNET/IP CAPABILITIES AND WEB INTERFACES
- ROOM CONTROLLER SETUP CAN BE DONE VIA THE WEB INTERFACE, OR VIA THE HANDHELD COMMISSIONING TOOL.
- THE LCU CAN BE SETUP VIA THE LARGE TOUCH SCREEN DISPLAY WITHIN EACH PANEL, OR VIA THE WEB INTERFACE.
- ENERGY MONITORING AND REMOTE ACCESS TO SYSTEM CAN BE ACHIEVED USING THE CHECKLIGHT SYSTEM. PANELS AND ROOM CONTROLLERS HAVE ENERGY MONITORING CAPABILITIES WHICH CAN REPORT ENERGY USAGE BACK TO THE CHECKLIGHT SYSTEM.
- THE MAXIMUM LENGTH FOR THE LOCAL DATALINE OF A DIALOG ROOM CONTROLLER (DRC) IS 100FT.

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E5 03

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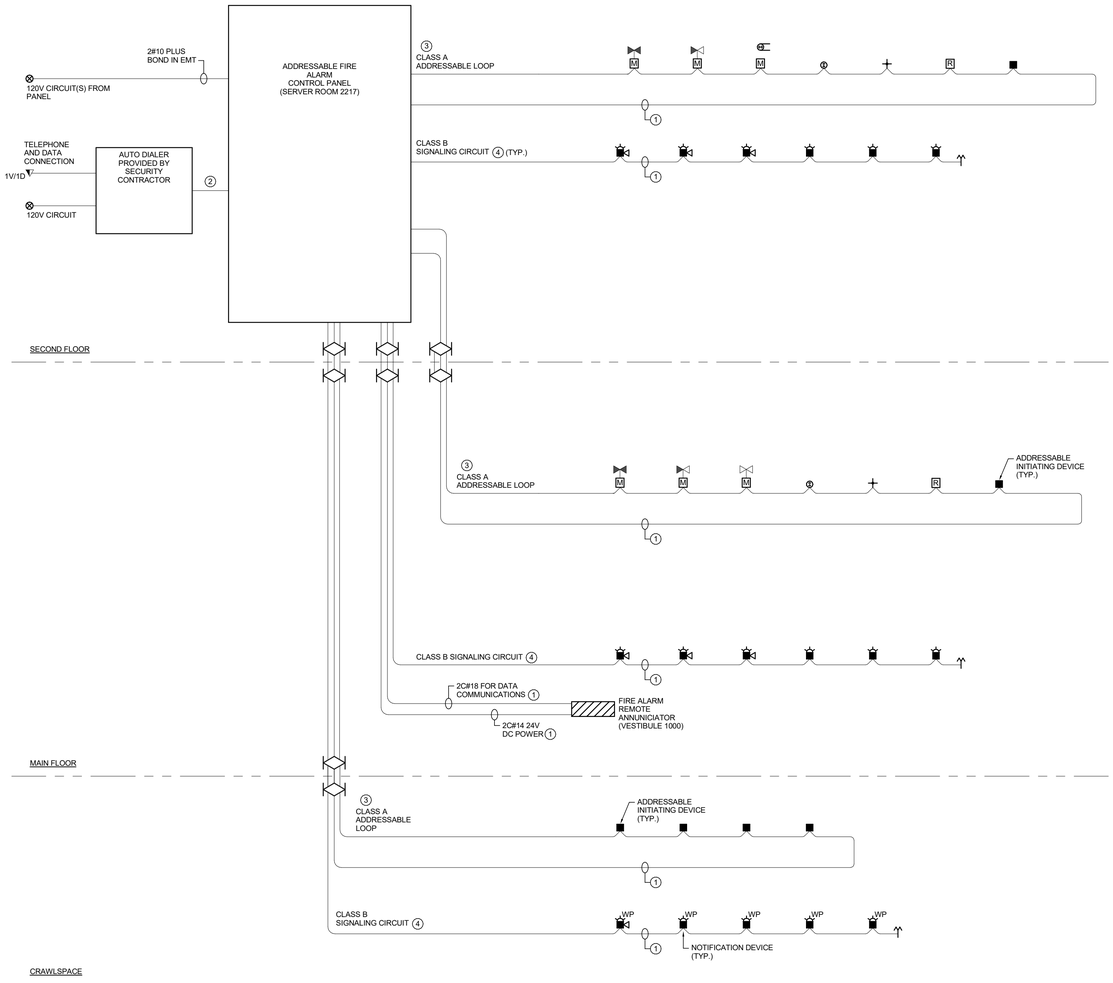
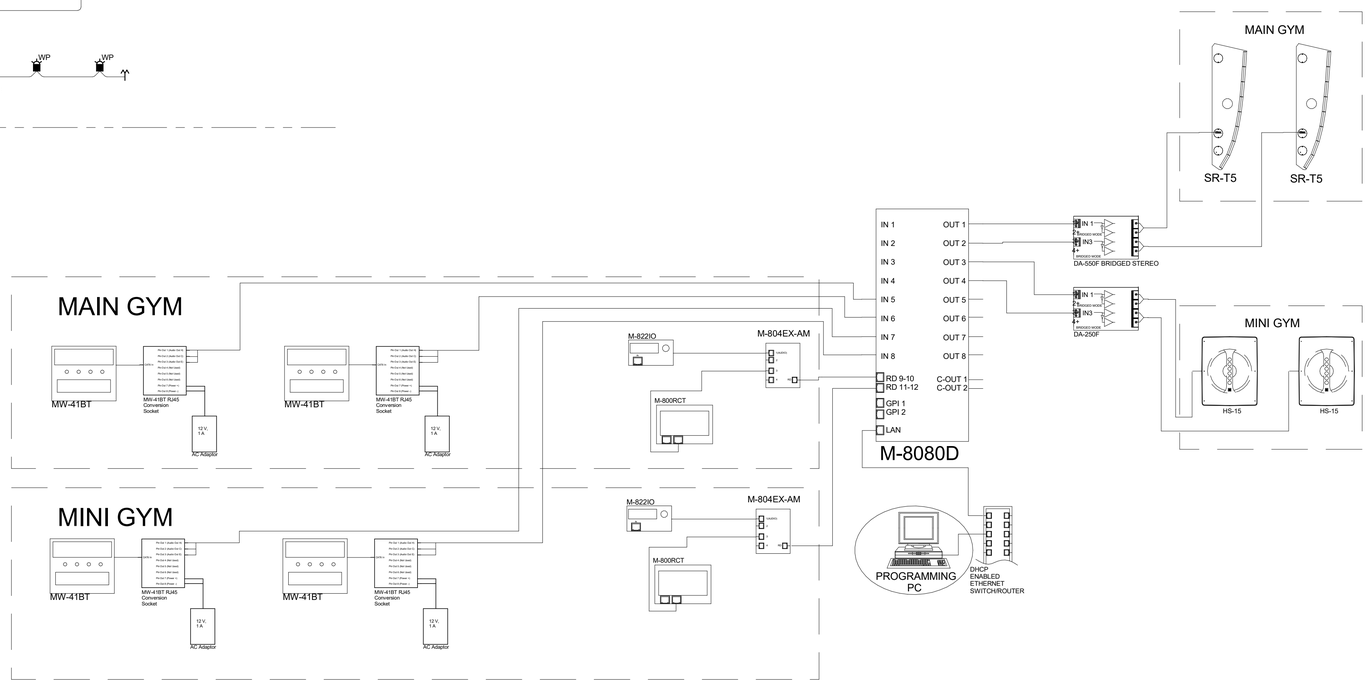


1 E5 04 FIRE ALARM RISER DIAGRAM
SCALE: NTS



2 E5 04 GYM A/V RISER DIAGRAM 5
SCALE: NTS

GENERAL NOTES

A. DRAWINGS DO NOT SHOW ALL EOL RESISTORS AND ISOLATORS WHICH WILL BE REQUIRED FOR THE FIRE ALARM SYSTEM. CONTRACTOR SHALL PROVIDE DEVICES AS REQUIRED.

B. PROVIDE ALL BOOSTER PANELS AND POWER SUPPLIES NECESSARY FOR A COMPLETE INSTALLATION. PROVIDE 120V CIRCUITS FROM EXISTING PANELS AS DIRECTED BY CONSULTANT OR OWNER. PROVIDE NEW BREAKERS, WIRING AND CONDUIT AS REQUIRED.

C. ALL BREAKERS USED FOR FIRE ALARM SYSTEM SHALL BE PAINTED RED AND BE LOCKABLE IN CLOSED POSITION.

D. ALL DEVICES AND CONDUIT IN FINISHED AREAS TO BE RECESSED MOUNTED. DEVICES AND CONDUIT IN SERVICE ROOMS TO BE SURFACE MOUNTED.

E. ALL WALL MOUNTED COMBINATION HORN/STROBES AND STROBES SHALL BE MOUNTED BETWEEN 2000-2400mm AFF.

F. REFER TO FIGURE 1 IN CAN/ULC S524 FOR SEPARATION OF WIRING CIRCUITS.

G. PROVIDE PROGRAMMABLE RELAYS AND MONITOR MODULES AS REQUIRED FOR ALL ANCILLARY CIRCUITS. ANCILLARY DEVICES MAY NOT ALL BE SHOWN ON DRAWINGS.

KEY NOTES (KN)

1. CONFIRM WIRING TYPE WITH FIRE ALARM SUPPLIER. ALL WIRING TO BE IN CONDUIT.
2. CONNECT DIALER TO NEW FIRE ALARM CONTROL PANEL. PROVIDE 8" x 8" DEMARCATION WIRING ENCLOSURE C/W TERMINAL STRIP FOR WIRING BETWEEN FACP AND DIALER. CONFIRM FINAL DIALER LOCATION AND REQUIREMENTS WITH MONITORING AGENCY.
3. PROVIDE CLASS 'A' LOOP FOR INITIATING DEVICES. PROVIDE FAULT ISOLATION MODULES WHEN ENTERING AND LEAVING EACH FIRE ALARM ZONE AS REQUIRED.
4. PROVIDE CLASS 'B' CIRCUIT(S) FOR NOTIFICATION DEVICES. CONFIRM CIRCUIT LOADING WITH EQUIPMENT MANUFACTURER.
5. REFER TO SPECIFICATION 27 41 16 FOR AUDIO VISUAL SYSTEM DETAILS.

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E5 04

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LUMINAIRE SCHEDULE

TYPE	INPUT WATTS	VOLTAGE	DESCRIPTION	LOCATION	LAMP	FINISH	KEYNOTES	MANUFACTURER(S)	SPECIFIED MODEL NUMBER
BA	40 W	120 V/1Ø	2'X4' LED TROFFER, ALUMINUM BODY, SIDE LIT TO MINIMIZE GLARE. 2 SIDE PANELS WITH FLAT METAL DIVIDER DESIGN , 80 CRI	CORRIDORS, OFFICES, CLASSROOMS, ETC.	LED 4000K 4200 LM	WHITE		METALUX	ENCOUNTER 24EN-LD2-45-UNV-L840-CD OR APROVED EQUAL
BC	50 W	120 V/1Ø	2'X4' LED TROFFER W/ RGB COLOUR TUNING (4100K) 8MM THICK PANEL- LED ON 4 SIDES. CRI 95+, DMX CONTROLLED. PROVIDE Z CLIPS & FRAME BOX TO SECURE ON TBAR. PROVIDE FROSTED ACRYLIC COVER	SENSORY ROOM	RGB	WHITE		OMNIFY	RGBW-8MM-121817-CS48*24-950-4.9-1-5-X-X OR APPROVED EQUAL
BT	55 W	120 V/1Ø	2'X4' LED TROFFER W/ CCT TUNING 2700-6500. DRIVER IS TO BE COMPLETE WITH 2 CHANNEL 0-10V FOR CCT AND DIMMING CONTROL.	LIFESKILLS, GROOMING	LED 2700-6500K CCT	WHITE		METALUX	24CZ2-55-UNV-L82765-2 CHANNEL 0-10V
DA	12 W	120 V/1Ø	6" RECESSED LED DOWNLIGHT W/ HAZE MEDIUM BEAM REFLECTOR. 80 CRI. DIMMING 0-10V.	WASHROOMS, OFFICE AREAS, LIBRARY, ETC.	LED 4000K 1000 LM	SEMI-SPECULAR CLEAR FINISH WHITE FLANGE		COOPER	HC6-10-D010-WH-HM4-12-840-41-MD-H OR APPROVED EQUAL
DN	10 W	120 V/1Ø	4" RECESSED LED DOWNLIGHT. WET LOCATION RATED. PHASE CUT DIMMING.	PLAY NOOK (BELOW STAIRS)	LED 4000K 650 LM			COOPER	HLBSL4-06-9FS35-1E-MW-R
DT	15 W	120 V/1Ø	6" RECESSED LED DOWNLIGHT W/ CCT TUNING. 2700K-6500K CCT 80 CRI, 2000 LUMENS. 2 CHANNEL 0-10V CCT AND DIMMING CONTROL.	LIFESKILLS	LED 4000K 2000 LUMENS	HAZE		PORTFOLIO	LDS6C-15-W2N2765-40-2 CHANNEL 0-10V-S-1H
DTX	15 W	120 V/1Ø	6" RECESSED LED DOWNLIGHT W/ CCT TUNING. 2700K-6500K CCT 80 CRI, 2000 LUMENS DMX DRIVER.	SENSORY ROOM	LED 4000K 2000 LUMENS	HAZE		PORTFOLIO	LDS6C-15-W2N2765-40-DMX-S-1H
DW	10 W	120 V/1Ø	4" RECESSED LED DOWNLIGHT. WET LOCATION RATED. DIMMING 0-10V.	SHOWER	LED 4000K 600LM	WHITE		COOPER	LT4-06-94S35-1E-WH-DM-R
E-1	3 W	120 V/1Ø	EXTRUDED ALUMINUM SINGLE FACE (UNIVERSAL MOUNT) LED EDGE LIT PICTOGRAM EXIT LIGHT C/W UNIVERSAL MOUNTING CANOPY & ARROWS AS SHOWN	SEE PLANS	N/A	WHITE		BEGHELLI	GDRM-L-XX-1-OLR-BA
E-2	3 W	120 V/1Ø	EXTRUDED ALUMINUM DOUBLE FACE (UNIVERSAL MOUNT) LED EDGE LIT PICTOGRAM EXIT LIGHT C/W UNIVERSAL MOUNTING CANOPY & ARROWS AS SHOWN	SEE PLANS	N/A	WHITE		BEGHELLI	GDRM-XX-2-OLR-BA
E-3	3 W	120 V/1Ø	DOUBLE FACE (UNIVERSAL MOUNT) LED VAPOURTIGHT PICTOGRAM EXIT LIGHT C/W UNIVERSAL MOUNTING CANOPY & ARROWS AS SHOWN	CRAWLSPACE	N/A	WHITE		BEGHELLI	FTZ-RM-L-U-OLR-M-
HA	160 W	208 V/1Ø	HIGHBAY FIXTURE, HIGH IMPACT POLYCARBONATE LENS, 24000 LUMENS. CHAIN SUSPENDED.	GYM, MINI GYM	LED 5000K 24000 LM	WHITE		COOPER	VHBLED-24-W-UNV-L840 OR APPROVED EQUAL
KA	31 W	120 V/1Ø	2'X4' RECESSED LED FLATPANEL C/W WIPABLE LENS. SELECTABLE LUMENS. 0-10V DIMMING.	KITCHEN	LED 4000K 4,000 LM	WHITE		METALUX	24CGTS-NUV OR APPROVED EQUAL
LA	8 W/ft	120 V/1Ø	4' SUSPENDED LINEAR LED C/W SPOTLESS ACRYLIC LENS DIFFUSER. DIMMING 0-10V	STAIRS 2 & 3	LED 4000K (800 LM/FT)	WHITE		AXIS	TB3DILED-800-80-40-BW-SO-XX-XX-UNV-DP1
LA1	20 W/ft	120 V/1Ø	SUSPENDED LINEAR LED C/W SPOTLESS ACRYLIC LENS DIFFUSER. DIMMING 0-10V. BATWING INDIRECT. REFER TO DRAWINGS FOR LENGTHS.	MPR	LED 4000K (1000 LPF DIRECT / 1100 LPF INDIRECT)	WHITE		AXIS	TB3DILED-1100-1000-80-40-BW-SO-XX-XX-UNV-DP1
LA2	16 W/ft	120 V/1Ø	SUSPENDED LINEAR LED C/W SPOTLESS ACRYLIC LENS DIFFUSER. DIMMING 0-10V. BATWING INDIRECT.REFER TO DRAWINGS FOR LENGTHS.	MPR, LIBRARY	LED 4000K (800 LPF DIRECT / 800 LPF INDIRECT)	WHITE		AXIS	TB3DILED-800-800-80-40-BW-SO-XX-XX-UNV-DP1
LB	10 W/ft	120 V/1Ø	4' T-BAR GRID MOUNTED LINEAR LED C/W SPOTLESS ACRYLIC LENS DIFFUSER. DIMMING 0-10V	CORR 1002/1013, LIBRARY	LED 4000K (900 LM/FT)	WHITE		AXIS	CLICK CLKLED-900-80-40-SO-4-XX-120-DP-1-AC OR APPROVED EQUAL
LD	25 W	120 V/1Ø	4' SUSPENDED LINEAR C/W SPOTLESS ACRYLIC LENS DIFFUSER. DIMMING 0-10V	CORRIDOR ALCOVES OUTSIDE CLASSROOMS	LED 4000K 600LPF	WHITE		AXIS	SCD-600-8040-FL-4'-XX-UNV-DP1-CAX
LR	9 W/ft	120 V/1Ø	4' RECESSED LINEAR LED C/W SPOTLESS ACRYLIC LENS DIFFUSER. DIMMING 0-10V	WASHROOMS, ADMIN 1038	LED 4000K 900 LPF	TBD		AXIS	BMRLED-900-80-35-FL-4
LR1	10 W/ft	120 V/1Ø	8' RECESSED LINEAR LED C/W SPOTLESS ACRYLIC LENS DIFFUSER. DIMMING 0-10V	WASHROOMS	LED 4000K 1000 LPF	TBD		AXIS	BMRLED-1000-80-40-FL-XX-W-120-DP1
LS1	60 W	120 V/1Ø	6' SURFACE MOUNTED LINEAR LED C/W SPOTLESS ACRYLIC LENS DIFFUSER. DIMMING 0-10V	STAIR 2 & 3	LED 4000K 4000 LM	TBD		AXIS	TB3SLED-1000-80-SO-6'-AP-UNV-DP1
PA	130 W	120 V/1Ø	10"X 48" LED DECORATIVE CYLINDER W/ DIRECTIONAL DOWNLIGHT AND TRANSLUCENT BODY AND 2700 LUMENS OF DOWNLIGHT. 4' LONG PROFILE. RGBW COLOUR TUNING W/DMX CONTROL. SEPARATE DRIVER FOR DOWNLIGHT AND CYLINDER LIGHT.	ENTRY COMMONS	LED 4000K 10560 + 2700 LM	WHITE		SOLERA	SRBP-O-10-10X48-10560-RGBW-UNV-ACXX-OAL-EGD (30W) DMX 0-10V FOR THE DOWNLIGHT
PB	75 W	120 V/1Ø	8" X 12" LED DECORATIVE CYLINDER W/DIRECTIONAL DOWNLIGHT AND TRANSLUCENT BODY. 1' LONG PROFILE. 2000 LUMEN DOWNLIGHT. SEPARATE DRIVER FOR DOWNLIGHT AND CYLINDER LIGHT.	CORRIDOR	LED 4000K 5280 LM	WHITE		SOLERA	SRBP-O-8-8X12-5280-4000K-UNV-ACXX-OAL-2DIM + 25W DOWNLIGHT
PC	15 W	120 V/1Ø	4" CYLINDER PENDANT MOUNT (AIRCRAFT CABLE) MEDIUM BEAM, HAZE REFLECTOR, 80 CRI	RECEPTION DESK, LIBRARY DESK	LED 4000K 21500 LM	WHITE		COOPER	HCC4-15-D010-MB-HM4-12-840-41-MD-H OR APPROVED EQUAL
SA	40 W	120 V/1Ø	4' LINEAR LED STRIPLIGHT, WITH ROUND SEMI-FROSTED LENS C/W CHAIN SUSPENSION KIT. DIMMING 0-10V.	JAN, MECH ELEC, STORAGE	LED 4000K/5000K LM	WHITE		METALUX	4SLSTP4040D OR APPROVED EQUAL
SA1	80 W	120 V/1Ø	8' LINEAR LED STRIPLIGHT, WITH ROUND SEMI-FROSTED LENS C/W CHAIN SUSPENSION KIT. DIMMING 0-10V.	JAN, MECH ELEC, STORAGE	LED 4000K/5000K LM	WHITE		METALUX	8SLSTP8040D OR APPROVED EQUAL
ST	32 W	120 V/1Ø	4' LONG SURFACE MOUNTED STAIR FIXTURE C/W OCC SENSOR FOR 50%/ 100% DIMMING 80 CRI, (0-10V STD DIMMING DRIVER)	STAIR TO CRAWLSPACE	LED 4000K 4000 LM	TBD		METALUX	4SWLED-40SL-LW-UNV-L840-5LT-U OR APPROVED EQUAL
SW	30 W	120 V/1Ø	4' LINEAR LED STRIPLIGHT, VAPOUR TIGHT C/W CHAIN SUSPENSION KIT. DIMMING 0-10V.	CRAWLSPACE	LED 4000K/5000K LM	WHITE		METALUX	4VT2-LD5-4-DR-UNV-L840-WL-U
TA	2 W/ft	120 V/1Ø	FLEX TAPE GRAZER C/W ALUM CHANNEL, FROSTED LENS AND POWER SUPPLY. DIMMABLE 102 LUMENS / FT MINIMUM BEND RADIUS IS 4". BEND TAPE LIGHT AND CHANNEL TO FOLLOW THE CURVATURE OF METAL PERFORATED PANEL ON WALL.	PLAY NOOK (BELOW STAIR 1)	LED 4000K	TBD		ACCLAIM	FMA-22X-XA-G-N-CHANNEL-DRIVER
VA	32 W	120 V/1Ø	4' VANITY FIXTURE, HIGH IMPACT LENS LUMENS 80 CRI, 4000K, 3200 LUMENS, (0-10V DIMMING DRIVER). HIGH IMPACT LENS.	WASHROOMS	LED 4000K 3200 LM	TBD		METALUX	4BCLED-LD4-32SL-F-UNV-840-CD OR APPROVED EQUAL
VA1	16 W	120 V/1Ø	2' VANITY FIXTURE, HIGH IMPACT LENS LUMENS 80 CRI, 4000K, 3200 LUMENS, (0-10V DIMMING DRIVER). HIGH IMPACT LENS.	WASHROOMS	LED 4000K 3200 LM	TBD		METALUX	2BCLED-LD4-32SL-F-UNV-840-CD OR APPROVED EQUAL
XL	6.2 W/ft	120 V/1Ø	4" WIDE 4' LINEAR FIXTURE - IP65 RATED. 500 LUMENS/FT, SURFACE MOUNT TYPE, 80 CRI.	ENTRANCE SOFFIT	LED 4000K 500 LM/FT	BLACK		AXIS	WBSLED-500-80-40-S-4-XX-UNV OR APPROVED EQUAL
XL1	6.2 W/ft	120 V/1Ø	4" WIDE 8' LINEAR FIXTURE - IP65 RATED. 500 LUMENS/FT, SURFACE MOUNT TYPE, 80 CRI.	ENTRANCE SOFFIT	LED 4000K 500 LM/FT	BLACK		AXIS	WBSLED-500-80-40-S-8-XX-UNV OR APPROVED EQUAL
XL2	6.2 W/ft	120 V/1Ø	4" WIDE 8' LINEAR FIXTURE - IP65 RATED. 500 LUMENS/FT, SURFACE MOUNT TYPE, 80 CRI.	ENTRANCE SOFFIT	LED 4000K 500 LM/FT	BLACK		AXIS	WBSLED-500-80-40-S-8-XX-UNV OR APPROVED EQUAL
XPD	340 W	208 V/1Ø	DOUBLE HEAD POLE MOUNTED HIGH OUTPUT LED AREA LIGHT C/W SINGLE ARM BRACKET. TYPE 3 MEDIUM DISTRIBUTION. RATING FOR -40°C / IP67. INTEGRATED DIMMABLE 0-10V LED DRIVER. COMPLETE WITH 4 PIN ZAGA RECEPTACLE. INCLUDE WAVELINX LITE WIRELESS CONTROLS. GROUP FIXTURES TOGETHER. HEAVY WALL POLE TO BE PROVIDED SEPARATELY FROM LUMINAIRE MANUFACTURER. DIMENSIONS: 20' (H) X 4" (DIA)	PARKING	LED 3000K 42,000 LM	BRONZE		MCGRAW	PRV-PA2B-740-U-T3-SA-XX-ZW-WAVELINX LITE
XPS	170 W	208 V/1Ø	SINGLE HEAD POLE MOUNTED HIGH OUTPUT LED AREA LIGHT C/W SINGLE ARM BRACKET. TYPE 3 MEDIUM DISTRIBUTION. RATING FOR -40°C / IP67. INTEGRATED DIMMABLE 0-10V LED DRIVER. COMPLETE WITH 4 PIN ZAGA RECEPTACLE. INCLUDE WAVELINX LITE WIRELESS CONTROLS. GROUP FIXTURES TOGETHER. HEAVY WALL POLE TO BE PROVIDED SEPARATELY FROM LUMINAIRE MANUFACTURER. DIMENSIONS: 20' (H) X 4" (DIA)	PARKING	LED 3000K 21,000 LM	BRONZE		MCGRAW	PRV-PA2B-740-U-T3-SA-XX-ZW-WAVELINX LITE
			WALL MOUNTED LED LUMINAIRE WITH DOWN LIGHTING WEATHERPROOF, -40 C RATED,	EXTERIOR BUILDING PERIMITER	LED 3000K 9000 LM	BRONZE		MCGRAW	GWC-SA2A-730-U-T3 OR APPROVED EQUAL

LUMINAIRE GENERAL NOTES

A. ALL LUMINAIRES TO BE CSA/cUL APPROVED.

B. ALL EXTERIOR LUMINAIRES TO BE EXTERIOR RATED TO -40 DEG C. TEMPERATURES.

C. INSTALLATION DETAILS TO BE COORDINATED WITH ARCHITECT.

D. FINISHES TO BE CONFIRMED WITH ARCHITECT DURING SHOP DRAWING SUBMITTAL PHASE PRIOR TO ORDERING.

E. SUSPENSION HEIGHTS TO BE CONFIRMED WITH CONSULTANT AND ARCHITECT DURING SHOP DRAWING SUBMITTAL PHASE PRIOR TO ORDERING.

F. MOUNTING TYPE TO BE CONFIRMED WITH CONSULTANT AND ARCHITECT DURING SHOP DRAWING SUBMITTAL PHASE PRIOR TO ORDERING.

G. LENGTHS/SYSTEM RUNS TO BE CONFIRMED AGAINST SITE CONDITIONS DURING SHOP DRAWING SUBMITTAL PHASE PRIOR TO ORDERING.

H. ALL LOCATIONS AND QUANTITIES TO BE CONFIRMED AGAINST REFLECTED CEILING PLAN. CONFIRM DISCREPENCIES W/ CONSULTANT.

MOTOR SCHEDULE

MOTOR No.	NAME	LOCATION	RATING	VOLTAGE	STARTER & ACC. MAN	MAG	PL	HOA	PANEL	CIRCUIT	STARTER LOCATION	FEEDER	TIME DELAY RELAY	TO SHUTDOWN ON FIRE ALARM	REMARKS
AHU-1	AIR HANDLING UNIT	MECH. ROOM 2005	10 hp	208 V/3Ø					CDP-208-D	19,20,21	SUPPLIED ON EQUIPMENT	3#6		✔	
AHU-2	AIR HANDLING UNIT	MECH. ROOM 2007	20 hp	208 V/3Ø					CDP-208-D	22,23,24	SUPPLIED ON EQUIPMENT	3#4		✔	
AHU-3	AIR HANDLING UNIT	MECH. ROOM 2005	50 hp	208 V/3Ø					CDP-208-D	25,26,27	SUPPLIED ON EQUIPMENT	3#3/0		✔	
ASHP-1	AIR SOURCE HEAT PUMP	ROOF	205 kW	600 V/3Ø					MD-600-A	40,41,42		3#350			
CF-1	CEILING FAN	GYMNASIUM 1017	0.61 FLA	120 V/1Ø					1M	27		2#12			
CF-2	CEILING FAN	GYMNASIUM 1017	0.61 FLA	120 V/1Ø					1M	27		2#12			
CF-3	CEILING FAN	GYMNASIUM 1017	0.61 FLA	120 V/1Ø					1M	28		2#12			
CF-4	CEILING FAN	GYMNASIUM 1017	0.61 FLA	120 V/1Ø					1M	28		2#12			
CU-1	CONDENSING UNIT	ROOF	13.2 FLA	208 V/1Ø					1A	17,18		2#10			
CU-2	CONDENSING UNIT	ROOF	13.2 FLA	208 V/1Ø					2E	23,24		2#10			
CU-3	CONDENSING UNIT	ROOF	13.2 FLA	208 V/1Ø					2B	23,24		2#10			
CU-4	CONDENSING UNIT	ROOF	13.2 FLA	208 V/1Ø					1N	32,33		2#10			
CU-5	CONDENSING UNIT	ROOF	13.2 FLA	208 V/1Ø					2B	25,26		2#10			
EB-1	ELECTRIC BOILER	MECH. ROOM 2005	336 kW	600 V/3Ø					MD-600-A	25,26,27		(2)3#250			
EB-2	ELECTRIC BOILER	MECH. ROOM 2005	336 kW	600 V/3Ø					MD-600-A	28,29,30		(2)3#250			
EB-3	ELECTRIC BOILER	MECH. ROOM 2005	336 kW	600 V/3Ø					MD-600-A	31,32,33		(2)3#250			
EB-4	ELECTRIC BOILER	MECH. ROOM 2005	336 kW	600 V/3Ø					MD-600-A	34,35,36		(2)3#250			
EF-1	EXHAUST FAN	FOUNDATION	1 hp	208 V/1Ø					1A	15,16		2#12			
EF-2	EXHAUST FAN	FOUNDATION	1 hp	208 V/1Ø					1N	29,30		2#12			
EF-3	EXHAUST FAN	FOUNDATION	1 hp	208 V/1Ø					1H	31,32		2#12			
ELEV-1	ELEVATOR	LIFT 2004	40 hp	600 V/1Ø					MD-600-A	37,38,39		3#2			
ERV-1	HEAT RECOVERY VENTILATOR	ROOF	4.4 FLA	600 V/3Ø					CDP-600-A	4,5,6		3#10			
ERV-2	HEAT RECOVERY VENTILATOR	ROOF	32.3 FLA	600 V/3Ø					CDP-600-A	1,2,3		3#4			
EV-1	EVAPORATOR	ELEC. ROOM 1305	0.4 FLA	208 V/1Ø					1A	17,18		2#12			FED THROUGH CU-1
EV-2	EVAPORATOR	SERVER ROOM 2217	0.4 FLA	208 V/1Ø					2E	23,24		2#12			FED THROUGH CU-2
EV-3	EVAPORATOR	SERVER ROOM 2203	0.4 FLA	208 V/1Ø					2B	23,24		2#12			FED THROUGH CU-3
EV-4	EVAPORATOR	ELEC. ROOM 1034	0.4 FLA	208 V/1Ø					1N	32,33		2#12			FED THROUGH CU-4
EV-5	EVAPORATOR	SERVER ROOM 2217	0.4 FLA	208 V/1Ø					2B	25,26		2#12			FED THROUGH CU-5
FF-1	FORCE FLOW HEATER	VESTIBULE 1302	3.5 FLA	120 V/1Ø					1A	20		2#12			
FF-2	FORCE FLOW HEATER	VESTIBULE 1302	3.5 FLA	120 V/1Ø					1A	19		2#12			
FF-3	FORCE FLOW HEATER	STAIR 3	3.5 FLA	120 V/1Ø					1D	11		2#12			
FF-4	FORCE FLOW HEATER	VESTIBULE 1003	3.5 FLA	120 V/1Ø					1M	26		2#12			
FF-5	FORCE FLOW HEATER	VESTIBULE 1000	3.5 FLA	120 V/1Ø					1N	27		2#12			
FF-6	FORCE FLOW HEATER	VESTIBULE 1025	3.5 FLA	120 V/1Ø					1N	28		2#12			
FF-7	FORCE FLOW HEATER	STAIR 2	3.5 FLA	120 V/1Ø					1H	30		2#12			
FF-8	FORCE FLOW HEATER	STAIR 2	3.5 FLA	120 V/1Ø					1M	40		2#12			
GF-1	GLYCOL FILL	MECH. ROOM 2005	2 FLA	120 V/1Ø					2M	10		2#12			
P-1	HEATING PUMP	MECH. ROOM 2005	7.5 hp	600 V/3Ø					CDP-600-A	7,8,9	SUPPLIED ON EQUIPMENT	3#12			
P-2	HEATING PUMP	MECH. ROOM 2005	7.5 hp	600 V/3Ø					CDP-600-A	10,11,12	SUPPLIED ON EQUIPMENT	3#12			
P-3	HEATING PUMP	MECH. ROOM 2005	7.5 hp	600 V/3Ø			✔	✔	CDP-600-A	13,14,15	SUPPLIED ON EQUIPMENT	3#12			
P-4	HEATING PUMP	MECH. ROOM 2005	7.5 hp	600 V/3Ø			✔	✔	CDP-600-A	16,17,18	SUPPLIED ON EQUIPMENT	3#12			
P-5	HEATING PUMP	MECH. ROOM 2005	15 hp	600 V/3Ø					CDP-600-A	19,20,21	SUPPLIED ON EQUIPMENT	3#8			
P-6	HEATING PUMP	MECH. ROOM 2005	15 hp	600 V/3Ø					CDP-600-A	22,23,24	SUPPLIED ON EQUIPMENT	3#8			
P-7	HEATING PUMP	MECH. ROOM 2005	10 hp	600 V/3Ø					CDP-600-A	25,26,27	SUPPLIED ON EQUIPMENT	3#10			
P-8	HEATING PUMP	MECH. ROOM 2005	10 hp	600 V/3Ø					CDP-600-A	28,29,30	SUPPLIED ON EQUIPMENT	3#10			
PP-1	SUMP PUMP	FOUNDATION	0.5 hp	208 V/1Ø					1M	36,37		2#10			
PP-2	SUMP PUMP	FOUNDATION	0.5 hp	208 V/1Ø					1M	36,37		2#10			
PP-3	SUMP PUMP	FOUNDATION	0.5 hp	208 V/1Ø					1M	38,39		2#10			
PP-4	SUMP PUMP	FOUNDATION	0.5 hp	208 V/1Ø					1M	38,39		2#10			
PP-5	SUMP PUMP	FOUNDATION	0.5 hp	208 V/1Ø					1M	32,33		2#10			
PP-6	SUMP PUMP	FOUNDATION	0.5 hp	208 V/1Ø					1M	32,33		2#10			
PP-7	SUMP PUMP	FOUNDATION	0.5 hp	208 V/1Ø					1M	34,35		2#10			
PP-8	SUMP PUMP	FOUNDATION	0.5 hp	208 V/1Ø					1M	34,35		2#10			
PP-9	DHWR PUMP	MECH. ROOM 2005	0.5 hp	120 V/1Ø			✔	✔	2M	14		2#12			
RF-1	RETURN FAN	MECH. ROOM 2005	2 hp	208 V/3Ø					CDP-208-D	28,29,30		3#12		✔	
RF-2	RETURN FAN	SERVER ROOM 2203	2 hp	600 V/3Ø					CDP-600-A	34,35,36		3#12		✔	
RF-3	RETURN FAN	ROOF	40 hp	208 V/3Ø					CDP-208-D	34,35,36	SUPPLIED ON EQUIPMENT	3#2/0		✔	
RH-1	RANGE HOOD	KITCHEN 1314	1.4 FLA	120 V/1Ø					1A	29		2#12			
RH-2	RANGE HOOD	KITCHENETTE 1019	1.4 FLA	120 V/1Ø					1E	17		2#12			
RH-3	RANGE HOOD	STAFF 1035	1.4 FLA	120 V/1Ø					1F	15		2#12			
SF-1	EXHAUST FAN	FOUNDATION	2 hp	208 V/3Ø			✔	✔	1M	16,17,18	SUPPLIED ON EQUIPMENT	2#10			
UH-1	UNIT HEATER	FOUNDATION	0.075 kW	120 V/1Ø					1A	25		2#12			
UH-2	UNIT HEATER	FOUNDATION	0.075 kW	120 V/1Ø					1A	25		2#12			
UH-3	UNIT HEATER	FOUNDATION	0.075 kW	120 V/1Ø					1K	13		2#12			
UH-4	UNIT HEATER	FOUNDATION	0.075 kW	120 V/1Ø					1K	13		2#12			
UH-5	UNIT HEATER	FOUNDATION	0.075 kW	120 V/1Ø					1H	29		2#12			
UH-6	UNIT HEATER	FOUNDATION	0.075 kW	120 V/1Ø					1H	29		2#12			
UH-7	UNIT HEATER	FOUNDATION	0.075 kW	120 V/1Ø					1M	25		2#12			
UH-8	UNIT HEATER	FOUNDATION	0.075 kW	120 V/1Ø					1N	26		2#12			
UH-9	UNIT HEATER	ELEC. ROOM 1305	0.075 kW	120 V/1Ø					1A	36		2#12			
UH-10	UNIT HEATER	SPRINKLER ROOM 1323	0.075 kW	120 V/1Ø					1A	21		2#12			
UH-11	UNIT HEATER	MECH. ROOM 2005	0.075 kW	120 V/1Ø					2M	12		2#12			
UH-12	UNIT HEATER	MECH. ROOM 2005	0.075 kW	120 V/1Ø					2M	12		2#12			
UH-13	UNIT HEATER	MECH. ROOM 2007	0.075 kW	120 V/1Ø					2B	22		2#12			

HEATER SCHEDULE

TYPE	WATTS	VOLTAGE	DESCRIPTION	NOTES	APPROVED MANUFACTURERS
RHP-1	500	208 V/1Ø	610mm X 1220mm RADIANT HEATING PANEL	1, 2, 3	Q-MARK: CP SERIES OUELLET: ORP SERIES
RHP-2	750	208 V/1Ø	1220mm X 1220mm RADIANT HEATING PANEL	1, 2, 3	Q-MARK: CP SERIES OUELLET: ORP SERIES
RHP-3	375	208 V/1Ø	610mm x 610mm RADIANT HEATING PANEL	1, 2, 3	Q-MARK: CP SERIES OUELLET: ORP SERIES

HEATER SCHEDULE - CONTROL

TE	WALL MOUNTED LOW VOLTAGE THERMOSTAT TO CONTROL HEATER C/W L.V. RELAY & TRANSFORMER	1, 2, 3

HEATER NOTES

1. COLOUR TO MATCH CEILING FINISH (TO BE CONFIRMED WITH ARCHITECT).
2. TO BE C/W POWER RELAYS (C/W 24 VAC COILS) FOR LOW VOLTAGE CONTROL. CONTROLS (INCLUDING THERMOSTATS AND POWER RELAYS) AND CONTROL WIRING BY DIVISION 25.
3. PROVIDE RECESS MOUNTING KIT AND/OR SURFACE MOUNTING KIT AS REQUIRED. RADIANT HEATING PANEL(S) TO BE RECESS MOUNTED UNLESS NOTED OTHERWISE.

REVIT PROJECT SERVER PATH

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issue / rev.

#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
SMS Engineering Ltd.
No. 166

PROVINCE OF MANITOBA
V.E. KANE
2023 MARCH 24
Member 30363
REGISTERED PROFESSIONAL ENGINEER

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

school division

Hanover School Division
5 Chrysler Gate
Steinbach, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

drawing information

ELECTRICAL SCHEDULES

drawn by: **KAM**
approved by: **VEK**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

E6 01

PANEL: 1A

LOCATION: ELEC. 1305
SUPPLY FROM: CDP-208-A
REMARKS:

VOLTAGE: **120/208V/3Ø/4W**
CAPACITY: 200 A
MOUNTING: SURFACE MOUNTED

MAINS TYPE: MAIN LUG ONLY
AIC RATING: 10kA

DESIGNATION			LOAD (VA)	BKR	POLE	CCT	PHASE A	PHASE B	PHASE C	CCT	POLE	BKR	LOAD (VA)			DESIGNATION
SPACE	--	--	--	--	1	1				22	1	15 A	800		1R	MICROWAVE - INFANT 1310
SPACE	--	--	--	--	1	2				23	1	15 A	600		1R	U/C FRIDGE - INFANT 1310
SPACE	--	--	--	--	1	3				24	1	15 A	1000		5R	RECEPTACLES, MOTORIZED CHANGE TABLE - INFANT 1310
SPACE	--	--	--	--	1	4				25	1	15 A	150			UH-1 UNIT HEATER, UH-2 UNIT HEATER - R#
SPACE	--	--	--	--	1	5				26						
SPACE	--	--	--	--	1	6				27						
SPACE	--	--	--	--	1	7				28						
SPACE	--	--	--	--	1	8				29	1	15 A	168			RH-1 RANGE HOOD - KITCHEN 1314
SPACE	--	--	--	--	1	9				30	1	15 A	200			AUTOMATED PLUMBING FIXTURES - ELEC. 1305, INFANT 1310, INFANT 1312, TODDLER...
SPACE	--	--	--	--	1	10				31	1	20 A	400		2R	RECEPTACLES - ELEC. 1305
RECEPTACLES - INFANT 1310, INFANT 1312, W/C 1317	3R		600	15 A	1	11				32	1	15 A	1000		5R	RECEPTACLES, MOTORIZED CHANGE TABLE - ELEC. 1305, TODDLER 1308
RECEPTACLES, MOTORIZED CHANGE TABLE - INFANT 1312	5R		1000	15 A	1	12				33	1	15 A	800		1R	MICROWAVE - ELEC. 1305
MICROWAVE - INFANT 1312	1R		800	15 A	1	13				34	1	15 A	200		1R	RECEPTACLE - ELEC. 1305
U/C FRIDGE - INFANT 1312	1R		600	15 A	1	14				35	1	15 A	600		1R	U/C FRIDGE - ELEC. 1305
EF-1 EXHAUST FAN - FOUNDATION			1830	20 A	2	15				36	1	15 A	75			UH-9 UNIT HEATER - ELEC. 1305
						16				37	1	20 A	--		--	SPARE
EV-1 EVAPORATOR, CU-1 CONDENSING UNIT - ELEC. 1305			2829	20 A	2	17				38	1	20 A	--		--	SPARE
						18				39	1	15 A	--		--	SPARE
FF-2 FORCE FLOW HEATER - VEST 1325			420	15 A	1	19				40	1	15 A	--		--	SPARE
FF-1 FORCE FLOW HEATER - VEST 1302			420	15 A	1	20				41	1	15 A	--		--	SPARE
UH-10 UNIT HEATER - SPRKLR 1323			75	15 A	1	21				42	1	15 A	--		--	SPARE

NOTES:

LOADS -	PH. A	3685 VA
	PH. B	5402 VA
	PH. C	5480 VA
	TOTAL	**14567 VA**

PANEL: 1B

LOCATION: STOR. 1322
SUPPLY FROM: CDP-208-A
REMARKS:

VOLTAGE: **120/208V/3Ø/4W**
CAPACITY: 200 A
MOUNTING: RECESSED

MAINS TYPE: MAIN LUG ONLY
AIC RATING: 10kA

DESIGNATION			LOAD (VA)	BKR	POLE	CCT	PHASE A	PHASE B	PHASE C	CCT	POLE	BKR	LOAD (VA)			DESIGNATION
FRIDGE - INFANT 043	1R		800	15 A	1	1				31	1	15 A	80			CLOCKS - CORR. 1300
MICROWAVE - INFANT 043	1R		800	15 A	1	2				32	1	20 A	600		3R	RECEPTACLES - CORR. 1300, CORR. 1301
RECEPTACLE - INFANT 043	1R		500	20 A	1	3				33	1	15 A	200		1R	RECEPTACLE - CORR. 1300
RECEPTACLES - INFANT 043	3R		600	15 A	1	4				34	1	15 A	800			ADOS - VEST. 1325
MISC. CONTROLS CONNECTION - CORR. 1300			1000	15 A	1	5				35	1	15 A	200		1R	RECEPTACLE - PRESCHOOL 1320
ADO - W/C 1307			400	15 A	1	6				36	1	15 A	200		1R	RECEPTACLE - SPRKLR 1323
DISHWASHER - KITCHEN 1314			400	15 A	1	7				37	1	15 A	1400		4R	RECEPTACLES, MOTORIZED CHANGE TABLE - PRESCHOOL 1318
RANGE - KITCHEN 1314	1R		3000	50 A	2	8				38	1	15 A	200		1R	RECEPTACLE - PRESCHOOL 1318
						9				39						
MICROWAVE - KITCHEN 1314	1R		800	15 A	1	10				40	1	20 A	200		1R	RECEPTACLE - SPRKLR 1323
RECEPTACLE - KITCHEN 1314	1R		500	20 A	1	11				41	1	15 A	800			HEAT TRACE - STOR. 1322
RECEPTACLE - KITCHEN 1314	1R		500	20 A	1	12				42	1	20 A	500		1R	RECEPTACLE - STAFF 1304
RECEPTACLE - KITCHEN 1314	1R		500	20 A	1	13				43	1	15 A	600		1R	U/C FRIDGE - PRESCHOOL 1318
FRIDGE - KITCHEN 1314	1R		800	15 A	1	14				44	1	15 A	600		1R	U/C FRIDGE - PRESCHOOL 1320
FRIDGE - KITCHEN 1314	1R		800	15 A	1	15				45	1	15 A	180			AUTOMATED PLUMBING FIXTURES - PRESCHOOL 1315, PRESCHOOL 1318,...
RECEPTACLE - W/C 1307	1R		200	15 A	1	16				46	1	15 A	400		2R	RECEPTACLES - JAN. 1306, STOR. 1322
RECEPTACLES - OFFICE 1303	4R		800	15 A	1	17				47	1	15 A	800		1R	MICROWAVE - PRESCHOOL 1320
ADOS - ROOM 1033			800	15 A	1	18				48	1	15 A	800		1R	MICROWAVE - PRESCHOOL 1318
RECEPTACLE - INFANT 043	1R		500	20 A	1	19				49	1	15 A	600		1R	U/C FRIDGE - PRESCHOOL 1315
WASHER - CORR. 1301	1R		800	15 A	1	20				50	1	15 A	800		1R	MICROWAVE - PRESCHOOL 1315
DISHWASHER - CORR. 1301			400	15 A	1	21				51	1	20 A	500		1R	CRAWLSPACE MAINTENANCE RECEPTACLE
DRYER - CORR. 1301	1R		2500	30 A	2	22				52	1	20 A	--		--	SPARE
						23				53	1	20 A	--		--	SPARE
RECEPTACLES, MOTORIZED CHANGE TABLE - PRESCHOOL 1320	4R		1200	15 A	1	24				54	1	20 A	--		--	SPARE
HEATERS - PRESCHOOL 1320			1500	15 A	2	25				55	1	15 A	--		--	SPARE
						26				56	1	15 A	--		--	SPARE
HEATERS - PRESCHOOL 1318			2250	15 A	2	27				57	1	15 A	--		--	SPARE
						28				58	1	15 A	--		--	SPARE
HEATER - W/C 1307			500	15 A	2	29				59	1	15 A	--		--	SPARE
						30				60	1	15 A	--		--	SPARE

NOTES:

LOADS -	PH. A	11005 VA
	PH. B	12450 VA
	PH. C	9855 VA
	TOTAL	**33310 VA**

PANEL: 1C

LOCATION: STOR. 1045
SUPPLY FROM: CDP-208-B
REMARKS:

VOLTAGE: **120/208V/3Ø/4W**
CAPACITY: 200 A
MOUNTING: RECESSED

MAINS TYPE: MAIN LUG ONLY
AIC RATING: 10kA

DESIGNATION			LOAD (VA)	BKR	POLE	CCT	PHASE A	PHASE B	PHASE C	CCT	POLE	BKR	LOAD (VA)			DESIGNATION
EXTERIOR LIGHTING			134	15 A	2	1				31	1	20 A	1400			HAND DRYER - W/C 1213
						2				32	1	15 A	200		1R	RECEPTACLE - W/C 1213
ENTRANCE SOFFIT LIGHTING			149	15 A	1	3				33	1	20 A	1400			HAND DRYER - W/C 1214
LIGHTING - LIBRARY 1042			1159	15 A	1	4				34	1	15 A	400		2R	RECEPTACLES - CUST. 1047, W/C 1214
LIGHTING - LIBRARY 1042			246	15 A	1	5				35	1	20 A	200		1R	RECEPTACLE - CUST. 1047
LIGHTING - CUST. 1047, LIT. 1043, SLP 1044, STOR. 1045, STOR. 1211, W/C 1213, W/C 1214			508	15 A	1	6				36	1	15 A	800		4R	RECEPTACLES - STOR. 1045
SPACE	--	--	--	--	1	7				37						
SPACE	--	--	--	--	1	8				38						
SPACE	--	--	--	--	1	9				39	1	15 A	400		2R	RECEPTACLES - MPR 1046
SPACE	--	--	--	--	1	10				40	1	15 A	200		1R	TABLET CHARGING STATION - MPR 1046
RECEPTACLE - BUILDING EXTERIOR	1R		500	20 A	1	11				41	1	15 A	200		1R	RECEPTACLE - MPR 1046
RECEPTACLE - BUILDING EXTERIOR	1R		500	20 A	1	12				42	1	15 A	200		1R	RECEPTACLE - MPR 1046
CLOCKS, PS - COOR. 1002, ENTRY COMM. 1001, LIBRARY 1042, MPR 1046			240	15 A	1	13				43	1	15 A	400		2R	RECEPTACLES - MPR 1046
RECEPTACLES - LIT. 1043	4R		800	15 A	1	14				44	1	15 A	400		2R	RECEPTACLES - MPR 1046
RECEPTACLES - LIBRARY 1042	3R		600	15 A	1	15				45						
RECEPTACLES - LIBRARY 1042	3R		600	15 A	1	16				46						
RECEPTACLES - SLP 1044	4R		800	15 A	1	17				47						
RECEPTACLE - LIBRARY 1042	1R		200	15 A	1	18				48						
RECEPTACLE - LIBRARY 1042	1R		200	15 A	1	19				49						
TABLET CHARGING STATION - LIBRARY 1042	1R		200	15 A	1	20				50						
RECEPTACLES - LIBRARY 1042	2R		400	15 A	1	21				51						
RECEPTACLES - LIBRARY 1042	4R		800	15 A	1	22				52	1	15 A	--		--	SPARE
RECEPTACLES - LIBRARY 1042	2R		400	15 A	1	23				53	1	15 A	--		--	SPARE
RECEPTACLES - LIBRARY 1042	3R		600	15 A	1	24				54	1	15 A	--		--	SPARE
RECEPTACLES, AUTOMATED PLUMBING FIXTURES - STOR. 1211, W/C 1212, W/C 1213,...	3R		640	15 A	1	25				55	1	15 A	--		--	SPARE
HEATERS - LIBRARY 1042			1500	20 A	2	26				56	1	15 A	--		--	SPARE
						27				57	1	15 A	--		--	SPARE
HEATERS - LIBRARY 1042			1875	20 A	2	28				58	1	15 A	--		--	SPARE
						29				59	1	15 A	--		--	SPARE
ADO - LIBRARY 1042			400	15 A	1	30				60	1	15 A	--		--	SPARE

NOTES:

LOADS -	PH. A	7043 VA
	PH. B	5700 VA
	PH. C	6907 VA
	TOTAL	**19650 VA**

PANEL: 1D

LOCATION: CUST 1206
SUPPLY FROM: CDP-208-B
REMARKS:

VOLTAGE: **120/208V/3Ø/4W**
CAPACITY: 200 A
MOUNTING: RECESSED

MAINS TYPE: MAIN LUG ONLY
AIC RATING: 10kA

DESIGNATION			LOAD (VA)	BKR	POLE	CCT	PHASE A	PHASE B	PHASE C	CCT	POLE	BKR	LOAD (VA)			DESIGNATION
SPACE	--	--	--	--	1	1				22	1	20 A	500		1R	RECEPTACLE - R#
SPACE	--	--	--	--	1	2				23	2	15 A	2250			HEATERS - PRESCHOOL 1315
SPACE	--	--	--	--	1	3				24						
SPACE	--	--	--	--	1	4				25	2	15 A	2000			HEATERS - KINDERGARTEN 1207, W/C 1209
SPACE	--	--	--	--	1	5				26						
SPACE	--	--	--	--	1	6				27	1	15 A	800			ADOS - STAIR 3
SPACE	--	--	--	--	1	7				28	1	15 A	200		1R	RECEPTACLE - PRESCHOOL 1315
SPACE	--	--	--	--	1	8				29	1	15 A	1400		5R	RECEPTACLES, MOTORIZED CHANGE TABLE - PRESCHOOL 1315
SPACE	--	--	--	--	1	9				30	1	15 A	600		2R	RECEPTACLES - CUST 1206, STOR. 1208
SPACE	--	--	--	--	1	10				31						
FF-3 FORCE FLOW HEATER - STAIR 3			420	15 A	1	11				32						
RECEPTACLES - KINDERGARTEN 1207	3R		600	15 A	1	12				33						
TABLET CHARGING STATION - KINDERGARTEN 1207	1R		200	15 A	1	13				34						
RECEPTACLE - KINDERGARTEN 1207	1R		200	15 A	1	14				35						
RECEPTACLE - KINDERGARTEN 1207	1R		200	15 A	1	15				36						
RECEPTACLES - KINDERGARTEN 1207, W/C 1209	5R		1000	15 A	1	16				37	1	20 A	--		--	SPARE
TABLET CHARGING STATION - KINDERGARTEN 1210	1R		200	15 A	1	17				38	1	20 A	--		--	SPARE
RECEPTACLES - KINDERGARTEN 1210	4R		800	15 A	1	18				39	1	15 A	--		--	SPARE
RECEPTACLES - KINDERGARTEN 1210	3R		600	15 A	1	19				40	1	15 A	--		--	SPARE
RECEPTACLE - KINDERGARTEN 1210	1R		200	15 A	1	20				41	1	15 A	--		--	SPARE
RECEPTACLE - KINDERGARTEN 1210	1R		200	15 A	1	21				42	1	15 A	--		--	SPARE

NOTES:

LOADS -	PH. A	3500 VA
	PH. B	4545 VA
	PH. C	4325 VA
	TOTAL	**12370 VA**

PANEL: 1E

LOCATION: GYM STOR. 1020
SUPPLY FROM: CDP-208-C
REMARKS:

VOLTAGE: **120/208V/3Ø/4W**
CAPACITY: 200 A
MOUNTING: RECESSED

MAINS TYPE: MAIN LUG ONLY
AIC RATING: 10kA

DESIGNATION			LOAD (VA)	BKR	POLE	CCT	PHASE A	PHASE B	PHASE C	CCT	POLE	BKR	LOAD (VA)			DESIGNATION
LIGHTING - GYM STOR. 1020, KITCHENETTE 1019, OFFICE 1018			373	15 A	1	1				22	1	15 A	800			ADOS - VEST. 1000
SPARE	--		--	15 A	1	2				23	1	15 A	600		3R	RECEPTACLES - GYM STOR. 1020
SPARE	--		--	15 A	1	3				24	1	15 A	1400		4R	RECEPTACLES, FRIDGE - OFFICE 1018
SPARE	--		--	15 A	1	4				25	1	20 A	1400		2R	GYM A/V RACK - OFFICE 1018
SPARE	--		--	15 A	1	5				26	1	15 A	700		2R	RECEPTACLES - ENTRY COMM. 1001, KITCHENETTE 1019
SPARE	--		--	15 A	1	6				27	1	20 A	500		1R	RECEPTACLE - ROOF
SPARE	--		--	15 A	1	7				28	1	15 A	800			HEAT TRACE - ROOF
SPARE	--		--	15 A	1	8				29	1	20 A	800			HEAT TRACE - ROOF
SPARE	--		--	15 A	1	9				30	1	20 A	800			HEAT TRACE - ROOF
COOLER - KITCHENETTE 1019	1R		800	15 A	1	10				31	1	15 A	800			HEAT TRACE - ROOF
FRIDGE - KITCHENETTE 1019	1R		800	15 A	1	11				32	1	15 A	800			HEAT TRACE - ROOF
RECEPTACLE - KITCHENETTE 1019	1R		200	15 A	1	12				33						
RECEPTACLE - KITCHENETTE 1019	1R		200	15 A	1	13				34						
DISHWASHER - KITCHENETTE 1019			400	15 A	1	14				35						
RANGE - KITCHENETTE 1019	1R		3000	50 A	2	15				36						
						16				37						
RH-2 RANGE HOOD - KITCHENETTE 1019			168	15 A	1	17				38						
MICROWAVE - KITCHENETTE 1019	1R		800	20 A	1	18				39						
MICROWAVE - KITCHENETTE 1019	1R		800	20 A	1	19				40						
RECEPTACLES - KITCHENETTE 1019	2R		400	15 A	1	20				41						
RECEPTACLE - KITCHENETTE 1019	1R		200	15 A	1	21				42						

NOTES:

LOADS -	PH. A	7473 VA
	PH. B	4668 VA
	PH. C	5400 VA
	TOTAL	**17541 VA**

PANEL: 1F

LOCATION: ELEC. 1034
SUPPLY FROM: CDP-208-C
REMARKS:

VOLTAGE: **120/208V/3Ø/4W**
CAPACITY: 200 A
MOUNTING: SURFACE MOUNTED

MAINS TYPE: MAIN LUG ONLY
AIC RATING: 10kA

DESIGNATION			LOAD (VA)	BKR	POLE	CCT	PHASE A	PHASE B	PHASE C	CCT	POLE	BKR	LOAD (VA)			DESIGNATION
RECEPTACLES - ELEC. 1034	2R		400	15 A	1	1				22	1	20 A	200		1R	COPIER - PREP 1036
RANGE - STAFF 1035	1R		3000	50 A	2	2				23	1	15 A	160			CLOCKS - ADMIN 1038, LIFESKILLS 1026, MEETING 1037, STAFF 1035
						3				24	1	15 A	400		2R	RECEPTACLES - PREP 1036
MICROWAVE - STAFF 1035	1R		800	20 A	1	4				25	1	15 A	400		2R	RECEPTACLES - PREP 1036
RECEPTACLE - STAFF 1035	1R		200	15 A	1	5				26	1	15 A	800		4R	RECEPTACLES - ADMIN 1038
RECEPTACLE - STAFF 1035	1R		200	15 A	1	6				27	1	15 A	400		2R	RECEPTACLES - ADMIN 1038
DISHWASHER - STAFF 1035			400	15 A	1	7				28	1	15 A	600		3R	RECEPTACLES - ADMIN 1038
FRIDGE - STAFF 1035	1R		800	15 A	1	8				29	1	15 A	1000		5R	RECEPTACLES - PRINCIPAL 1040
FRIDGE - STAFF 1035	1R		800	15 A	1	9				30	1	15 A	1000		5R	RECEPTACLES - VICE 1039
RECEPTACLES - STAFF 1035	2R		400	15 A	1	10				31	1	15 A	400			ADO - ENTRY COMM. 1001
MICROWAVE - STAFF 1035	1R		800	20 A	1	11				32	1	15 A	200		1R	RECEPTACLE - STAFF 1035
MICROWAVE - STAFF 1035	1R		800	20 A	1	12				33	1	15 A	1000			MISC. CONTROLS CONNECTION - CORR. 1024
RECEPTACLES - STAFF 1035	4R		800	15 A	1	13				34						
RECEPTACLE - STAFF 1035	1R		200	15 A	1	14				35						
RH-3 RANGE HOOD - STAFF 1035			168	15 A	1	15				36	1	20 A	--		--	SPARE
RECEPTACLES - MEETING 1037	2R		400	15 A	1	16				37	1	20 A	--		--	SPARE
RECEPTACLES - MEETING 1037	5R		800	15 A	1	17				38	1	15 A	--		--	SPARE
FRIDGE - HEALTH 1041	1R		800	15 A	1	18				39	1	15 A	--		--	SPARE
RECEPTACLES - HEALTH 1041	3R		900	15 A	1	19				40	1	15 A	--		--	SPARE
RECEPTACLES - FILE 1048, PREP 1036	4R		800	15 A	1	20				41	1	15 A	--		--	SPARE
COPIER - PREP 1036	1R		200	20 A	1	21				42	1	15 A	--		--	SPARE

NOTES:

LOADS -	PH. A	5700 VA
	PH. B	7260 VA
	PH. C	7268 VA
	TOTAL	**20228 VA**

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issue / rev.

#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
SMS Engineering Ltd.
No. 166

PROVINCE OF MANITOBA
V.E. KANE
2022 MARCH
Member 30363
REGISTERED PROFESSIONAL ENGINEER

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

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Steinbach, MB
Canada

school division

Hanover School Division
5 Chrysler Gate
Steinbach, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
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drawing information

ELECTRICAL PANEL SCHEDULES

drawn by: **KAM**
approved by: **VEK**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

E6 02

REVIT PROJECT SERVER PATH
Printed on post-consumer recycled content paper.

PANEL: 1G

LOCATION: ELEC. 1034
SUPPLY FROM: CDP-208-C
REMARKS:

VOLTAGE: **120/208V/3Ø/4W**
CAPACITY: 200 A
MOUNTING: SURFACE MOUNTED

MAINS TYPE: MAIN LUG ONLY
AIC RATING: 10kA

DESIGNATION			LOAD (VA)	BKR	POLE	CCT	PHASE A	PHASE B	PHASE C	CCT	POLE	BKR	LOAD (VA)			DESIGNATION
EXTERIOR LIGHTING			201	15 A	2	1				22	1	15 A	400			ADO - GUIDANCE 1022
						2				23	1	15 A	400		2R	RECEPTACLES - GUIDANCE 1022
LIGHTING - CRAWLSPACE CORE			360	15 A	1	3				24	1	15 A	400		2R	RECEPTACLES - GUIDANCE 1022
LIGHTING - MINI GYM 1021			640	15 A	2	4				25	1	15 A	800		4R	RECEPTACLES - GUIDANCE 1022
						5				26	1	15 A	800		4R	RECEPTACLES - OFFICE 1023
LIGHTING - CORR. 1024, STAFF 1035			596	15 A	1	6				27	1	20 A	400		2R	RECEPTACLES - CORR. 1024
LIGHTING - ADMIN 1038, FILE 1048, HEALTH 1041, PREP 1036			485	15 A	1	7				28						
LIGHTING - MEETING 1037, PRINCIPAL 1040, VICE 1039			392	15 A	1	8				29						
LIGHTING - GUIDANCE 1022, OFFICE 1023, VEST. 1025			372	15 A	1	9				30						
LIGHTING - GROOMING 1031, OFFICE 1028, OFFICE 1029, OFFICE 1030, SHOWER 1038, W/...			552	15 A	1	10				31						
LIGHTING - LIFESKILLS 1026, SENSORY 1027			455	15 A	1	11				32						
CLOCKS, PS - CORR. 1024, GUIDANCE 1022, MINI GYM 1021			160	15 A	1	12				33						
MOTORIZED PROJECTION SCREEN - MINI GYM 1021			400	15 A	1	13				34						
RECEPTACLES - MINI GYM 1021	2R		400	15 A	1	14				35						
GYMNASIUM PROJECTOR - MINI GYM 1021	1R		1400	20 A	1	15				36						
RECEPTACLES - MINI GYM 1021	2R		400	15 A	1	16				37	1	20 A	--		--	SPARE
RECEPTACLES - MINI GYM 1021	2R		400	15 A	1	17				38	1	20 A	--		--	SPARE
RECEPTACLES - MINI GYM 1021	2R		400	15 A	1	18				39	1	15 A	--		--	SPARE
RECEPTACLES - BUILDING EXTERIOR	2R		1000	20 A	1	19				40	1	15 A	--		--	SPARE
RECEPTACLE - BUILDING EXTERIOR	1R		500	20 A	1	20				41	1	15 A	--		--	SPARE
						21				42	1	15 A	--		--	SPARE

NOTES:

LOADS -	PH. A	4457 VA
	PH. B	3768 VA
	PH. C	4088 VA
	TOTAL	**12313 VA**

PANEL: 1H

LOCATION: MPR 1106
SUPPLY FROM: CDP-208-B
REMARKS:

VOLTAGE: **120/208V/3Ø/4W**
CAPACITY: 400 A
MOUNTING: RECESSED

MAINS TYPE: MAIN LUG ONLY
AIC RATING: 14kA

DESIGNATION			LOAD (VA)	BKR	POLE	CCT	PHASE A	PHASE B	PHASE C	CCT	POLE	BKR	LOAD (VA)			DESIGNATION
LIGHTING - CLASSROOM B 1103			440	15 A	1	1				22	1	15 A	1000		5R	RECEPTACLES - CLASSROOM B 1105
LIGHTING - CLASSROOM B 1105			440	15 A	1	2				23	1	15 A	1000		3R	RECEPTACLES - CLASSROOM B 1105
LIGHTING - MPR 1106			743	15 A	1	3				24						
LIGHTING - CLASSROOM A 1107			440	15 A	1	4				25	1	15 A	200		1R	RECEPTACLE - CLASSROOM B 1103
LIGHTING - CLASSROOM A 1109			440	15 A	1	5				26	1	15 A	200		1R	RECEPTACLE - CLASSROOM B 1103
LIGHTING - CLASSROOM A 1110			440	15 A	1	6				27	1	15 A	200		1R	TABLET CHARGING STATION - CLASSROOM B 1103
LIGHTING - ALCOVE 1104, ALCOVE 1108, ALCOVE 1111			300	15 A	1	7				28	1	20 A	1000		2R	RECEPTACLES - R#
LIGHTING - CORR. 1100			320	15 A	1	8				29	1	15 A	150			UH-5 UNIT HEATER, UH-6 UNIT HEATER - R#
LIGHTING - CRAWLSPACE EAST			240	15 A	1	9				30	1	15 A	420			FF-7 FORCE FLOW HEATER - STAIR 2
EXTERIOR LIGHTING			335	15 A	2	10				31	2	20 A	1830			EF-3 EXHAUST FAN - R#
						11				32						
CLOCKS - CLASSROOM A 1107, CLASSROOM A 1109, CLASSROOM A 1110, CLASSROOM A 111...			280	15 A	1	12				33	1	15 A	1000		5R	RECEPTACLES - CLASSROOM B 1103
RECEPTACLE - MPR 1106	1R		200	15 A	1	13				34	1	15 A	1000		3R	RECEPTACLES - CLASSROOM B 1103
RECEPTACLE - MPR 1106	1R		200	15 A	1	14				35	1	15 A	200		1R	RECEPTACLE - CLASSROOM A 1107
TABLET CHARGING STATION - MPR 1106	1R		200	15 A	1	15				36	1	15 A	200		1R	RECEPTACLE - CLASSROOM A 1107
RECEPTACLES - MPR 1106	3R		600	15 A	1	16				37	1	15 A	200		1R	TABLET CHARGING STATION - CLASSROOM A 1107
RECEPTACLES - MPR 1106	3R		600	15 A	1	17				38	1	15 A	1000		5R	RECEPTACLES - CLASSROOM A 1107
AUTOMATED PLUMBING FIXTURES - CLASSROOM A 1107, CLASSROOM A 1109,...			140	15 A	1	18				39	1	15 A	1000		5R	RECEPTACLES - CLASSROOM A 1107
RECEPTACLE - CLASSROOM B 1105	1R		200	15 A	1	19				40	1	15 A	800			ADOS - STAIR 2
RECEPTACLE - CLASSROOM B 1105	1R		200	15 A	1	20				41	1	15 A	--		--	SPARE
TABLET CHARGING STATION - CLASSROOM B 1105	1R		200	15 A	1	21				42	1	15 A	--		--	SPARE

NOTES:

LOADS -	PH. A	10163 VA
	PH. B	8733 VA
	PH. C	7563 VA
	TOTAL	**26458 VA**

PANEL: 1H

LOCATION: MPR 1106
SUPPLY FROM: 1H
REMARKS: FEED-THROUGH...

VOLTAGE: **120/208V/3Ø/4W**
CAPACITY: 400 A
MOUNTING: RECESSED

MAINS TYPE: MAIN LUG ONLY
AIC RATING: 14kA

DESIGNATION			LOAD (VA)	BKR	POLE	CCT	PHASE A	PHASE B	PHASE C	CCT	POLE	BKR	LOAD (VA)			DESIGNATION
RECEPTACLE - CLASSROOM A 1109	1R		200	15 A	1	43				64						
RECEPTACLE - CLASSROOM A 1109	1R		200	15 A	1	44				65						
TABLET CHARGING STATION - CLASSROOM A 1109	1R		200	15 A	1	45				66						
RECEPTACLES - CLASSROOM A 1109	4R		800	15 A	1	46				67						
RECEPTACLES - CLASSROOM A 1109	5R		1000	15 A	1	47				68						
RECEPTACLE - CLASSROOM A 1110	1R		200	15 A	1	48				69						
RECEPTACLE - CLASSROOM A 1110	1R		200	15 A	1	49				70						
TABLET CHARGING STATION - CLASSROOM A 1110	1R		200	15 A	1	50				71						
RECEPTACLES - CLASSROOM A 1110	5R		1000	15 A	1	51				72						
RECEPTACLES - CLASSROOM A 1110	5R		1000	15 A	1	52				73						
RECEPTACLE - BUILDING EXTERIOR	1R		500	20 A	1	53				74						
RECEPTACLE - BUILDING EXTERIOR	1R		500	20 A	1	54				75						
RECEPTACLE - BUILDING EXTERIOR	1R		500	20 A	1	55				76	1	20 A	--		--	SPARE
MISC. CONTROLS CONNECTION - CORR. 1100			1000	15 A	1	56				77	1	20 A	--		--	SPARE
RECEPTACLES - ALCOVE 1104, 1108, 1111	3R		600	15 A	1	57				78	1	20 A	--		--	SPARE
						58				79	1	15 A	--		--	SPARE
						59				80	1	15 A	--		--	SPARE
						60				81	1	15 A	--		--	SPARE
						61				82	1	15 A	--		--	SPARE
						62				83	1	15 A	--		--	SPARE
						63				84	1	15 A	--		--	SPARE

NOTES:

LOADS -	PH. A	2700 VA
	PH. B	2900 VA
	PH. C	2500 VA
	TOTAL	**8100 VA**

PANEL: 1J

LOCATION: ELEC. 1305
SUPPLY FROM: CDP-208-A
REMARKS:

VOLTAGE: **120/208V/3Ø/4W**
CAPACITY: 200 A
MOUNTING: SURFACE MOUNTED

MAINS TYPE: MAIN LUG ONLY
AIC RATING: 10kA

DESIGNATION			LOAD (VA)	BKR	POLE	CCT	PHASE A	PHASE B	PHASE C	CCT	POLE	BKR	LOAD (VA)			DESIGNATION
EXTERIOR LIGHTING			402	15 A	2	1				22						
						2				23						
LIGHTING - CRAWLSPACE NORTH			360	15 A	1	3				24						
LIGHTING - CORR. 1300, PRESCHOOL 1315			640	15 A	1	4				25						
LIGHTING - INFANT 1310, INFANT 1312, W/C 1317			588	15 A	1	5				26						
LIGHTING - CORR. 1301, JAN. 1306, STOR. 1322, TODDLER 1308			396	15 A	1	6				27						
LIGHTING - PRESCHOOL 1318			440	15 A	1	7				28						
LIGHTING - OFFICE 1303, PRESCHOOL 1320, SPRKLR 1323			400	15 A	1	8				29						
LIGHTING - INFANT 043, KITCHEN 1314, 1033, VEST 1325, W/C 1307			358	15 A	1	9				30						
SPARE	--		--	15 A	1	10				31						
RECEPTACLES - BUILDING EXTERIOR	2R		1000	20 A	1	11				32						
CLOCKS - PRESCHOOL 1320, 1318, 1315, TODDLER 1308, INFANT 1310, 1312			240	15 A	1	12				33						
HEATERS - TODDLER 1308			1500	15 A	2	13				34						
						14				35						
HEATERS - INFANT 1310			1500	15 A	2	15				36						
						16				37						
HEATERS - INFANT 1312			1500	15 A	2	17				38	1	15 A	--		--	SPARE
						18				39	1	15 A	--		--	SPARE
						19				40	1	15 A	--		--	SPARE
						20				41	1	15 A	--		--	SPARE
						21				42	1	15 A	--		--	SPARE

NOTES:

LOADS -	PH. A	2781 VA
	PH. B	3689 VA
	PH. C	2854 VA
	TOTAL	**9324 VA**

PANEL: 1K

LOCATION: CUST 1206
SUPPLY FROM: CDP-208-A
REMARKS:

VOLTAGE: **120/208V/3Ø/4W**
CAPACITY: 400 A
MOUNTING: RECESSED

MAINS TYPE: MAIN LUG ONLY
AIC RATING: 10kA

DESIGNATION			LOAD (VA)	BKR	POLE	CCT	PHASE A	PHASE B	PHASE C	CCT	POLE	BKR	LOAD (VA)			DESIGNATION
LIGHTING - B&A 1205			440	15 A	1	1				31	1	15 A	800		4R	RECEPTACLES - KINDERGARTEN 1201
LIGHTING - B&A 1204			440	15 A	1	2				32	1	15 A	800		4R	RECEPTACLES - KINDERGARTEN 1201
LIGHTING - KINDERGARTEN 1201, STOR. 1202			572	15 A	1	3				33	2	15 A	1500			HEATERS - KINDERGARTEN 1201
LIGHTING - CORR. 1200, CUST 1206, STOR. 1208			252	15 A	1	4				34						
LIGHTING - KINDERGARTEN 1207			560	15 A	1	5				35	2	15 A	1500			HEATERS - KINDERGARTEN 1210
LIGHTING - KINDERGARTEN 1210			480	15 A	1	6				36						
SPACE	--	--	--	--	1	7				37	2	15 A	1500			HEATERS - B&A 1205
SPACE	--	--	--	--	1	8				38						
SPACE	--	--	--	--	1	9				39	1	15 A	600		3R	RECEPTACLES - KINDERGARTEN 1201, STOR. 1202, W/C 1203
SPACE	--	--	--	--	1	10				40	1	20 A	1000		2R	CRAWLSPACE MAINTENANCE RECEPTACLES
HEATERS - B&A 1204			1500	15 A	2	11				41	1	15 A	800			HEAT TRACE - W/C 1317
						12				42	1	15 A	1000			MISC. CONTROLS CONNECTION - CORR. 1200
UH-3 UNIT HEATER, UH-4 UNIT HEATER - FOUNDATION			150	15 A	1	13				43						
RECEPTACLE - B&A 1204	1R		200	15 A	1	14				44						
RECEPTACLE - B&A 1204	1R		200	15 A	1	15				45						
RECEPTACLES - B&A 1204, B&A 1205	4R		800	15 A	1	16				46						
TABLET CHARGING STATION - B&A 1204	1R		200	15 A	1	17				47						
RECEPTACLES - B&A 1204	4R		800	15 A	1	18				48						
RECEPTACLES - B&A 1204	3R		600	15 A	1	19				49						
TABLET CHARGING STATION - B&A 1205	1R		200	15 A	1	20				50						
RECEPTACLE - B&A 1205	1R		200	15 A	1	21				51	1	20 A	--		--	SPARE
RECEPTACLE - B&A 1205	1R		200	15 A	1	22				52	1	20 A	--		--	SPARE
RECEPTACLES - B&A 1205	5R		1000	15 A	1	23				53	1	20 A	--		--	SPARE
RECEPTACLES - B&A 1205	2R		400	15 A	1	24				54	1	15 A	--		--	SPARE
AUTOMATED PLUMBING FIXTURES - B&A 1204, B&A 1205, KINDERGARTEN 1201			80	15 A	1	25				55	1	15 A	--		--	SPARE
CLOCKS, PS - B&A 1204, B&A 1205, CORR. 1200, KINDERGARTEN 1201, KINDERGARTEN 1207,...			280	15 A	1	26				56	1	15 A	--		--	SPARE
RECEPTACLES - COOR. 1002, CORR. 1200	3R		600	20 A	1	27				57	1	15 A	--		--	SPARE
RECEPTACLE - KINDERGARTEN 1201	1R		200	15 A	1	28				58	1	15 A	--		--	SPARE
TABLET CHARGING STATION - KINDERGARTEN 1201	1R		200	15 A	1	29				59	1	15 A	--		--	SPARE
RECEPTACLE - KINDERGARTEN 1201	1R		200	15 A	1	30				60	1	15 A	--		--	SPARE

NOTES:

LOADS -	PH. A	6022 VA
	PH. B	6930 VA
	PH. C	7302 VA
	TOTAL	**20254 VA**

PANEL: 1L

LOCATION: ELEC. 1004
SUPPLY FROM: CDP-208-B
REMARKS:

VOLTAGE: **120/208V/3Ø/4W**
CAPACITY: 200 A
MOUNTING: SURFACE MOUNTED

MAINS TYPE: MAIN LUG ONLY
AIC RATING: 10kA

DESIGNATION			LOAD (VA)	BKR	POLE	CCT	PHASE A	PHASE B	PHASE C	CCT	POLE	BKR	LOAD (VA)			DESIGNATION
LIGHTING - COOR. 1002, CORR. 1013, RESOURCE 1009, VEST. 1003			712	15 A	1	1				31	1	15 A	600		3R	RECEPTACLES - ELEC. 1004
LIGHTING - MUSIC 1006			480	15 A	1	2				32	1	15 A	200		1R	RECEPTACLES - MUSIC 1006
LIGHTING - MUSIC 1006			240	15 A	1	3				33	1	15 A	200		1R	RECEPTACLES - MUSIC 1006
LIGHTING - F W/C 1102, M W/C 1101, STAIR 4			360	15 A	1	4				34	1	15 A	120			AUTOMATED PLUMBING FIXTURES - W/C 1101, 1102
LIGHTING - CORR. 1013, F CHANGE 1015, GYMNASIUM 1017, M CHANGE 1016, OFFICE...			701	15 A	1	5				35	1	20 A	1400			HAND DRYER - M W/C 1101
LIGHTING - CLASSROOM A 1112			440	15 A	1	6				36	1	20 A	1400			HAND DRYER - M W/C 1101
SPARE	--		--	15 A	1	7				37	1	15 A	400		2R	RECEPTACLES - M W/C 1101
SPACE	--	--	--	--	1	8				38	1	20 A	1400			HAND DRYER - F W/C 1102
SPACE	--	--	--	--	1	9				39	1	20 A	1400			HAND DRYER - F W/C 1102
SPARE	--		--	15 A	1	10				40	1	15 A	400		2R	RECEPTACLES - F W/C 1102
WATER FOUNTAIN	1R		200	15 A	1	11				41	2	15 A	1500			HEATERS - F W/C 1102, M W/C 1101
RECEPTACLE - COOR. 1002	1R		200	15 A	1	12				42						
PS, CLOCKS - CORR. 1013, CORR. 1100, MUSIC 1006, RESOURCE 1009			240	15 A	1	13				43	1	15 A	40			AUTOMATED PLUMBING FIXTURES - RESOURCE 1009, UNIV. 1008
RECEPTACLES - CORR. 1013, CORR. 1100	4R		800	20 A	1	14				44	1	20 A	500		1R	CRAWLSPACE MAINTENANCE RECEPTACLE
RECEPTACLES - OFFICE 1010	4R		800	15 A	1	15				45	1	15 A	1000		5R	RECEPTACLES - CLASSROOM A 1112
RECEPTACLES - MUSIC 1006	4R		800	15 A	1	16				46	1	15 A	200		1R	RECEPTACLE - CLASSROOM A 1112
TABLET CHARGING STATION - MUSIC 1006	1R		200	15 A	1	17				47	1	15 A	1000			MISC. CONTROLS CONNECTION - CORR. 1013
RECEPTACLES - MUSIC 1006	5R		1000	15 A	1	18				48	1	15 A	200		1R	RECEPTACLE - CLASSROOM A 1112
RECEPTACLE - UNIV. 1008	1R		200	15 A	1	19				49	1	15 A	1000		5R	RECEPTACLES - CLASSROOM A 1112
HAND DRYER - UNIV. 1008			1400	20 A	1	20				50	1	15 A	200		1R	TABLET CHARGING STATION - CLASSROOM A 1112
ADO - UNIV. 1008			400	15 A	1	21				51						
ADO - STAIR 4			400	15 A	1	22				52						
SPARE	--		--	15 A	1	23				53						
ADOS - VEST. 1003			800	15 A	1	24				54	1	20 A	--		--	SPARE
RECEPTACLE - RESOURCE 1009	1R		200	15 A	1	25				55	1	20 A	--		--	SPARE
RECEPTACLE - RESOURCE 1009	1R		200	15 A	1	26				56	1	20 A	--		--	SPARE
RECEPTACLES - RESOURCE 1009	4R		800	15 A	1	27				57	1	15 A	--		--	SPARE
RECEPTACLES - RESOURCE 1009	2R		400	15 A	1	28				58	1	15 A	--		--	SPARE
RECEPTACLES - COOR. 1002, ENTRY COMM. 1001	5R		1000	15 A	1	29				59	1	15 A	--		--	SPARE
ADO - RESOURCE 1009			400	15 A	1	30				60	1	15 A	--		--	SPARE

NOTES:

LOADS -	PH. A	6071 VA
	PH. B	10431 VA
	PH. C	10030 VA
	TOTAL	**26533 VA**

REVIT PROJECT SERVER PATH

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issue / rev.

#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
SMS Engineering Ltd.
No. 166

PROVINCE OF MANITOBA
V.E. KANE
2022 MARCH
Member 30363
REGISTERED PROFESSIONAL ENGINEER

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

school division

Hanover School Division
5 Chrysler Gate
Steinbach, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

drawing information

ELECTRICAL PANEL SCHEDULES (CONT.)

drawn by: **KAM**
approved by: **VEK**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

E6 03

PANEL: 1M

LOCATION: ELEC. 1004
SUPPLY FROM: CDP-208-B
REMARKS:

VOLTAGE: **120/208V/3Ø/4W**
CAPACITY: 200 A
MOUNTING: SURFACE MOUNTED

MAINS TYPE: MAIN LUG ONLY
AIC RATING: 10kA

DESIGNATION			LOAD (VA)	BKR	POLE	CCT	PHASE A	PHASE B	PHASE C	CCT	POLE	BKR	LOAD (VA)			DESIGNATION
ADO - GYMNASIUM 1017			400	15 A	1	1				31						
WATER FOUNTAIN - GYMNASIUM 1017	1R		200	15 A	1	2				32	2	15 A	2242			PP-5 SUMP PUMP, PP-6 SUMP PUMP - FOUNDATION
WATER FOUNTAIN - GYMNASIUM 1017	1R		200	15 A	1	3				33						
ADOS - GYMNASIUM 1017			800	15 A	1	4				34	2	15 A	2242			PP-7 SUMP PUMP, PP-8 SUMP PUMP - FOUNDATION
HAND DRYER - M CHANGE 1016			1400	20 A	1	5				35						
HAND DRYER - F CHANGE 1015			1400	20 A	1	6				36	2	15 A	2242			PP-3 SUMP PUMP, PP-4 SUMP PUMP - FOUNDATION
RECEPTACLE - M CHANGE 1016	1R		200	15 A	1	7				37						
RECEPTACLES - F CHANGE 1015, M CHANGE 1016	2R		400	15 A	1	8				38	2	15 A	2242			PP-1 SUMP PUMP, PP-2 SUMP PUMP - FOUNDATION
RECEPTACLE - F CHANGE 1015	1R		200	15 A	1	9				39						
GYMNASIUM PROJECTOR - GYMNASIUM 1017	1R		1400	20 A	1	10				40	1	15 A	420			FF-8 FORCE FLOW HEATER - STAIR 4
RECEPTACLES - GYMNASIUM 1017	3R		600	30 A	2	11				41	1	15 A	400			MOTORIZED PROJECTION SCREEN - GYMNASIUM 1017
						12				42	1	15 A	40			AUTOMATED PLUMBING FIXTURES - F CHANGE 1015, M CHANGE 1016
RECEPTACLES - GYMNASIUM 1017	2R		400	15 A	1	13				43						
MOTORIZED BASKETBALL BACKSTOP - GYMNASIUM 1017			1600	20 A	1	14				44						
MOTORIZED BASKETBALL BACKSTOP - GYMNASIUM 1017			1600	20 A	1	15				45						
						16				46						
SF-1 EXHAUST FAN - FOUNDATION			2702	15 A	3	17				47						
						18				48						
ADO - GYMNASIUM 1017			400	15 A	1	19				49						
RECEPTACLES - GYMNASIUM 1017	2R		400	15 A	1	20				50	2	15 A	--		--	SPARE
RECEPTACLES - GYMNASIUM 1017	2R		400	15 A	1	21				51						
RECEPTACLES - GYMNASIUM 1017	2R		400	15 A	1	22				52	1	20 A	--		--	SPARE
RECEPTACLES - GYMNASIUM 1017	2R		400	15 A	1	23				53	1	20 A	--		--	SPARE
CLOCKS - GYMNASIUM 1017			80	15 A	1	24				54	1	15 A	--		--	SPARE
UH-7 UNIT HEATER - FOUNDATION			75	15 A	1	25				55	1	15 A	--		--	SPARE
FF-4 FORCE FLOW HEATER - VEST. 1003			420	15 A	1	26				56	1	15 A	--		--	SPARE
CF-1 CEILING FAN, CF-2 CEILING FAN - GYMNASIUM 1017			146	15 A	1	27				57	1	15 A	--		--	SPARE
CF-3 CEILING FAN, CF-4 CEILING FAN - GYMNASIUM 1017			146	15 A	1	28				58	1	15 A	--		--	SPARE
RECEPTACLE MECH. 2007			1000	15 A	1	29				59	1	15 A	--		--	SPARE
						30				60	1	15 A	--		--	SPARE

NOTES:

LOADS -	PH. A	7784 VA
	PH. B	10784 VA
	PH. C	8630 VA
	TOTAL	**27199 VA**

PANEL: 1N

LOCATION: ELEC. 1034
SUPPLY FROM: CDP-208-C
REMARKS:

VOLTAGE: **120/208V/3Ø/4W**
CAPACITY: 200 A
MOUNTING: SURFACE MOUNTED

MAINS TYPE: MAIN LUG ONLY
AIC RATING: 10kA

DESIGNATION			LOAD (VA)	BKR	POLE	CCT	PHASE A	PHASE B	PHASE C	CCT	POLE	BKR	LOAD (VA)			DESIGNATION
RECEPTACLES - OFFICE 1030	4R		800	15 A	1	1				31	1	15 A	--		--	SPARE
RECEPTACLES - OFFICE 1029	4R		800	15 A	1	2				32	2	20 A	2829			EV-4 EVAPORATOR, CU-4 CONDENSING UNIT - ELEC. 1034, R#
RECEPTACLES - OFFICE 1028	4R		800	15 A	1	3				33						
RECEPTACLES - LIFESKILLS 1026	4R		800	15 A	1	4				34	1	15 A	200		1R	RECEPTACLE - LIFESKILLS 1026
TABLET CHARGING STATION - LIFESKILLS 1026	1R		200	15 A	1	5				35	1	15 A	400			ADO - LIFESKILLS 1026
FRIDGE - LIFESKILLS 1026	1R		800	15 A	1	6				36	1	15 A	60			AUTOMATED PLUMBING FIXTURES - GROOMING 1031, R#, W/C 1032
DISHWASHER - LIFESKILLS 1026			400	15 A	1	7				37	1	20 A	500		1R	RECEPTACLE - FOUNDATION
MICROWAVE - LIFESKILLS 1026	1R		800	20 A	1	8				38	1	15 A	200		1R	MOTORIZED CHANGE TABLE - GROOMING 1031
RECEPTACLE - LIFESKILLS 1026	1R		200	20 A	1	9				39						
RECEPTACLE - LIFESKILLS 1026	1R		200	20 A	1	10				40						
RECEPTACLE - LIFESKILLS 1026	1R		200	15 A	1	11				41						
RECEPTACLES - SENSORY 1027	4R		800	15 A	1	12				42						
ADOS - CORR. 1024, R#			800	15 A	1	13				43						
ADOS - CORR. 1024, LIFESKILLS 1026			800	15 A	1	14				44						
ADO - CORR. 1024			400	15 A	1	15				45						
DRYER - GROOMING 1031	1R		2500	30 A	2	16				46						
						17				47						
WASHER - GROOMING 1031	1R		800	15 A	1	18				48						
HAND DRYER - GROOMING 1031			1400	15 A	1	19				49						
HEATER - GROOMING 1031			750	15 A	2	20				50						
						21				51						
RECEPTACLES - GROOMING 1031	2R		400	15 A	1	22				52						
RECEPTACLE - GROOMING 1031	1R		200	15 A	1	23				53	1	20 A	--		--	SPARE
RECEPTACLE - W/C 1032	1R		200	15 A	1	24				54	1	20 A	--		--	SPARE
RECEPTACLE - SHOWER 1038	1R		200	15 A	1	25				55	1	15 A	--		--	SPARE
UH-8 UNIT HEATER - FOUNDATION			75	15 A	1	26				56	1	15 A	--		--	SPARE
FF-5 FORCE FLOW HEATER - VEST. 1000			420	15 A	1	27				57	1	15 A	--		--	SPARE
FF-6 FORCE FLOW HEATER - VEST. 1025			420	15 A	1	28				58	1	15 A	--		--	SPARE
EF-2 EXHAUST FAN - FOUNDATION			1830	20 A	2	29				59	1	15 A	--		--	SPARE
						30				60	1	15 A	--		--	SPARE

NOTES:

LOADS -	PH. A	7370 VA
	PH. B	7630 VA
	PH. C	7185 VA
	TOTAL	**22184 VA**

PANEL: 2B

LOCATION: MECH. 2007
SUPPLY FROM: CDP-208-D
REMARKS:

VOLTAGE: **120/208V/3Ø/4W**
CAPACITY: 200 A
MOUNTING: SURFACE MOUNTED

MAINS TYPE: MAIN LUG ONLY
AIC RATING: 14kA

DESIGNATION			LOAD (VA)	BKR	POLE	CCT	PHASE A	PHASE B	PHASE C	CCT	POLE	BKR	LOAD (VA)			DESIGNATION
SPARE	--		--	15 A	1	1				31	1	15 A	400		2R	RECEPTACLES - M W/C 2101
SPARE	--		--	15 A	1	2				32	2	15 A	1500			HEATERS - F W/C 2102, M W/C 2101
SPARE	--		--	15 A	1	3				33						
SPARE	--		--	15 A	1	4				34	1	15 A	200		1R	WATER FOUNTAIN - R#
SPARE	--		--	15 A	1	5				35	1	15 A	160			AUTOMATED PLUMBING FIXTURES - CLASSROOM A 2112, F W/C 2102, M W/C 2101,...
SPARE	--		--	15 A	1	6				36	1	15 A	1060		2R	LIGHTING AND RECEPTACLES - LIFT 1014
SPARE	--		--	15 A	1	7				37	1	15 A	400			ELEV. CAB LIGHTING, RCPT ETC.
SPARE	--		--	15 A	1	8				38	1	20 A	400		2R	RECEPTACLES - CORR. 2000, CORR. 2100
SPARE	--		--	15 A	1	9				39						
SPARE	--		--	15 A	1	10				40						
CLOCKS, PS - CLASSROOM A 2107, CLASSROOM A 2109, CLASSROOM A 2110,...			240	15 A	1	11				41						
RECEPTACLE - ROOF	1R		500	20 A	1	12				42						
RECEPTACLE - CLASSROOM A 2112	1R		200	15 A	1	13				43						
RECEPTACLE - CLASSROOM A 2112	1R		200	15 A	1	14				44						
RECEPTACLES - CLASSROOM A 2112	5R		1000	15 A	1	15				45						
RECEPTACLES - CLASSROOM A 2112	5R		1000	15 A	1	16				46						
TABLET CHARGING STATION - CLASSROOM A 2112	1R		200	15 A	1	17				47						
RECEPTACLES - MECH. 2007	2R		400	20 A	1	18				48						
HAND DRYER - F W/C 2102			1400	20 A	1	19				49						
HAND DRYER - F W/C 2102			1400	20 A	1	20				50						
HAND DRYER - M W/C 2101			1400	20 A	1	21				51						
UH-13 UNIT HEATER - MECH. 2007			75	15 A	1	22				52						
EV-3 EVAPORATOR, CU-3 CONDENSING UNIT -SERVER 2203			2829	20 A	2	23				53	1	20 A	--		--	SPARE
						24				54	1	20 A	--		--	SPARE
EV-5 EVAPORATOR, CU-5 CONDENSING UNIT - MECH. 2005			2829	20 A	2	25				55	1	20 A	--		--	SPARE
						26				56	1	15 A	--		--	SPARE
ADO - CORRIDOR 2100			400	15 A	1	27				57	1	15 A	--		--	SPARE
						28				58	1	15 A	--		--	SPARE
HAND DRYER - M W/C 2101			1400	20 A	1	29				59	1	15 A	--		--	SPARE
RECEPTACLES - F W/C 2102	2R		400	15 A	1	30				60	1	15 A	--		--	SPARE

NOTES:

LOADS -	PH. A	5089 VA
	PH. B	7579 VA
	PH. C	7324 VA
	TOTAL	**19993 VA**

PANEL: 2C

LOCATION: Space 36
SUPPLY FROM: CDP-208-D
REMARKS:

VOLTAGE: **120/208V/3Ø/4W**
CAPACITY: 400 A
MOUNTING: RECESSED

MAINS TYPE: MAIN LUG ONLY
AIC RATING: 14kA

DESIGNATION			LOAD (VA)	BKR	POLE	CCT	PHASE A	PHASE B	PHASE C	CCT	POLE	BKR	LOAD (VA)			DESIGNATION
LIGHTING - CORR. 2100, MPR 2106			1063	15 A	1	1				31	1	15 A	1000		5R	RECEPTACLES - CLASSROOM A 2109
LIGHTING - ALCOVE 2111, CLASSROOM A 2110			440	15 A	1	2				32	1	15 A	1000		5R	RECEPTACLES - CLASSROOM A 2109
LIGHTING - CLASSROOM A 2109			440	15 A	1	3				33	1	15 A	600		3R	RECEPTACLES - ALCOVE 2104,2108,2111
LIGHTING - ALCOVE 2108, CLASSROOM A 2107			440	15 A	1	4				34	1	15 A	200		1R	RECEPTACLE - CLASSROOM A 2110
LIGHTING - CLASSROOM B 2103			440	15 A	1	5				35	1	15 A	200		1R	RECEPTACLE - CLASSROOM A 2110
LIGHTING - ALCOVE 2104, CLASSROOM B 2105			440	15 A	1	6				36	1	15 A	1000		5R	RECEPTACLES - CLASSROOM A 2110
ALCOVE LIGHTING - CORRIDOR 2100			300	15 A	1	7				37	1	15 A	1000		5R	RECEPTACLES - CLASSROOM A 2110, R#
RECEPTACLES - CLASSROOM B 2105	5R		1000	15 A	1	8				38	1	15 A	200		1R	TABLET CHARGING STATION - CLASSROOM A 2110
RECEPTACLE - CLASSROOM B 2105	1R		200	15 A	1	9				39						
RECEPTACLE - CLASSROOM B 2105	1R		200	15 A	1	10				40	1	20 A	400		2R	RECEPTACLES - CORR. 2100
RECEPTACLES - CLASSROOM B 2103	5R		1000	15 A	1	11				41	1	15 A	200		1R	RECEPTACLE - MPR 2106
TABLET CHARGING STATION - CLASSROOM B 2103	1R		200	15 A	1	12				42	1	15 A	200		1R	RECEPTACLE - MPR 2106
RECEPTACLE - CLASSROOM B 2103	1R		200	15 A	1	13				43	1	15 A	200		1R	TABLET CHARGING STATION - MPR 2106
RECEPTACLE - CLASSROOM B 2103	1R		200	15 A	1	14				44	1	15 A	600		3R	RECEPTACLES - MPR 2106
RECEPTACLES - CLASSROOM B 2103	5R		1000	15 A	1	15				45	1	15 A	600		3R	RECEPTACLES - MPR 2106
CLOCKS, PS - CLASSROOM B 2105, CORR. 2100, MPR 2106			160	15 A	1	16				46	1	15 A	800		4R	RECEPTACLES - CLASSROOM B 2105
CLOCK - CLASSROOM B 2103			40	15 A	1	17				47	1	15 A	200		1R	TABLET CHARGING STATION - CLASSROOM B 2105
HEATER - STAIR 2028			500	15 A	2	18				48	1	15 A	1000			MISC. CONTROLS CONNECTION - CORR. 2100
						19				49						
HEAT TRACE - ROOF			800	15 A	1	20				50						
RECEPTACLES - CLASSROOM A 2107	5R		1000	15 A	1	21				51						
RECEPTACLE - CLASSROOM A 2107	1R		200	15 A	1	22				52						
RECEPTACLE - CLASSROOM A 2107	1R		200	15 A	1	23				53						
RECEPTACLES - CLASSROOM A 2107	5R		1000	15 A	1	24				54						
HEAT TRACE - ROOF			800	15 A	1	25				55						
TABLET CHARGING STATION - CLASSROOM A 2107	1R		200	15 A	1	26				56						
RECEPTACLE - CLASSROOM A 2109	1R		200	15 A	1	27				57						
RECEPTACLE - CLASSROOM A 2109	1R		200	15 A	1	28				58						
TABLET CHARGING STATION - CLASSROOM A 2109	1R		200	15 A	1	29				59						
AUTOMATED PLUMBING FIXTURES - CLASSROOM A 2107, CLASSROOM A 2109,...			100	15 A	1	30				60						

NOTES:

LOADS -	PH. A	7413 VA
	PH. B	6920 VA
	PH. C	8230 VA
	TOTAL	**22563 VA**

PANEL: 2A

LOCATION: STOR. 2215
SUPPLY FROM: CDP-208-D
REMARKS:

VOLTAGE: **120/208V/3Ø/4W**
CAPACITY: 400 A
MOUNTING: RECESSED

MAINS TYPE: MAIN LUG ONLY
AIC RATING: 14kA

DESIGNATION			LOAD (VA)	BKR	POLE	CCT	PHASE A	PHASE B	PHASE C	CCT	POLE	BKR	LOAD (VA)			DESIGNATION
LIGHTING - CORR. 2200, STOR. 2215			520	15 A	1	1				22	1	15 A	200		1R	TABLET CHARGING STATION - CLASSROOM A 2209
LIGHTING - ALCOVE 2210, CLASSROOM A 2211			440	15 A	1	2				23	1	15 A	1000		5R	RECEPTACLES - CLASSROOM A 2209
LIGHTING - CLASSROOM A 2209, F W/C 2207, M W/C 2208, R#, SERVER 2217, W/C 2205, W/C 2206			696	15 A	1	3				24	1	15 A	1000		5R	RECEPTACLES - CLASSROOM A 2209
LIGHTING - ALCOVE 2213, CLASSROOM A 2212			440	15 A	1	4				25	1	15 A	--		--	SPARE
LIGHTING - CLASSROOM A 2214			440	15 A	1	5				26	1	15 A	800		4R	RECEPTACLES - F W/C 2207, M W/C 2208
LIGHTING - ART 2216			480	15 A	1	6				27	1	20 A	1400			HAND DRYER - M W/C 2208
LIGHTING - ALCOVE 2210			200	15 A	1	7				28	1	20 A	1400			HAND DRYER - F W/C 2207
SPARE	--		--	15 A	1	8				29	1	15 A	200		1R	WATER FOUNTAIN - CORR. 2200
SPARE	--		--	15 A	1	9				30	1	15 A	80			AUTOMATED PLUMBING FIXTURES - F W/C 2207, M W/C 2208, W/C 2205, W/C 2206
SPARE	--		--	15 A	1	10				31	1	20 A	1400			HAND DRYER - W/C 2206
HEAT TRACE - ROOF			800	15 A	1	11				32	1	20 A	1400			HAND DRYER - W/C 2205
HEAT TRACE - ROOF			800	15 A	1	12				33	1	15 A	200		1R	RECEPTACLE - W/C 2205
RECEPTACLES - ROOF	2R		1000	20 A	1	13				34	1	15 A	200		1R	RECEPTACLE - W/C 2206
RECEPTACLE - CLASSROOM A 2211	1R		200	15 A	1	14				35	2	15 A	500			HEATER - STAIR 3
RECEPTACLE - CLASSROOM A 2211	1R		200	15 A	1	15				36						
RECEPTACLES - CLASSROOM A 2211	5R		1000	15 A	1	16				37	1	15 A	200		1R	RECEPTACLE - CLASSROOM A 2212
TABLET CHARGING STATION - CLASSROOM A 2211	1R		200	15 A	1	17				38	1	15 A	200		1R	RECEPTACLE - CLASSROOM A 2212
RECEPTACLES - CLASSROOM A 2211	5R		1000	15 A	1	18				39	1	15 A	200		1R	TABLET CHARGING STATION - CLASSROOM A 2212
HEAT TRACE - ROOF			800	15 A	1	19				40	1	15 A	1000		5R	RECEPTACLES - CLASSROOM A 2212
RECEPTACLE - CLASSROOM A 2209	1R		200	15 A	1	20				41	1	15 A	1000		5R	RECEPTACLES - CLASSROOM A 2212
RECEPTACLE - CLASSROOM A 2209	1R		200	15 A	1	21				42	1	15 A	--		--	SPARE

NOTES:

LOADS -	PH. A	12680 VA
	PH. B	11310 VA
	PH. C	10346 VA
	TOTAL	**34336 VA**

PANEL: 2A

LOCATION: STOR. 2215
SUPPLY FROM: 2A
REMARKS: FEED-THROUGH...

VOLTAGE: **120/208V/3Ø/4W**
CAPACITY: 400 A
MOUNTING: RECESSED

MAINS TYPE: MAIN LUG ONLY
AIC RATING: 14kA

DESIGNATION			LOAD (VA)	BKR	POLE	CCT	PHASE A	PHASE B	PHASE C	CCT	POLE	BKR	LOAD (VA)			DESIGNATION
MISC. CONTROLS CONNECTION - CORR. 2200			1000	15 A	1	43				64	1	15 A	800			HEAT TRACE - ROOF
RECEPTACLE - CLASSROOM A 2214	1R		200	15 A	1	44				65	1	15 A	800			HEAT TRACE - ROOF
RECEPTACLE - CLASSROOM A 2214	1R		200	15 A	1	45				66						
TABLET CHARGING STATION - CLASSROOM A 2214	1R		200	15 A	1	46				67						
RECEPTACLES - CLASSROOM A 2214	5R		1000	15 A	1	47				68						
RECEPTACLES - CLASSROOM A 2214	5R		1000	15 A	1	48				69						
CLOCKS - ART 2216, CLASSROOM A 2212, CLASSROOM A 2214			120	15 A	1	49				70						
RECEPTACLE - ART 2216	1R		200	15 A	1	50				71						
RECEPTACLE - ART 2216	1R		200	15 A	1	51				72						
TABLET CHARGING STATION - ART 2216	1R		200	15 A	1	52				73						
RECEPTACLES - ART 2216	5R		1000	15 A	1	53				74						
RECEPTACLES - ART 2216	5R		1000	15 A	1	54				75	1	20 A	--		--	SPARE
RECEPTACLES - STOR. 2215	2R		400	15 A	1	55				76	1	20 A	--		--	SPARE
CLOCKS - CLASSROOM A 2209, CLASSROOM A 2211			80	15 A	1	56				77	1	20 A	--		--	SPARE
CLOCKS - CORR. 2200, MECH. 2005			240	15 A	1	57				78	1	15 A	--		--	SPARE
RECEPTACLES - CORR. 2200	4R		800	20 A	1	58				79	1	15 A	--		--	SPARE
AUTOMATED PLUMBING FIXTURES - ART 2216, CLASSROOM A 2209, CLASSROOM A 2211,...			100	15 A	1	59				80	1	15 A	--		--	SPARE
RECEPTACLES - ALCOVE 2210, 2213	2R		400	15 A	1	60				81	1	15 A	--		--	SPARE
HEAT TRACE - ROOF			800	15 A	1	61				82	1	15 A	--		--	SPARE
HEAT TRACE - ROOF			800	15 A	1	62				83	1	15 A	--		--	SPARE
HEAT TRACE - ROOF			800	15 A	1	63				84	1	15 A	--		--	SPARE

NOTES:

LOADS -	PH. A	4320 VA
	PH. B	4180 VA
	PH. C	3840 VA
	TOTAL	**12340 VA**

REVIT PROJECT SERVER PATH

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issue / rev.

#	date	issue notes
1	2023.03.24	ISSUED FOR CONSTRUCTION

professional seals

ENGINEERS GEOSCIENTISTS MANITOBA
Certificate of Authorization
SMS Engineering Ltd.
No. 166

PROVINCE OF MANITOBA
V.E. KANE
2022 MARCH
Member 30363
REGISTERED PROFESSIONAL ENGINEER

project information

NEW WEST STEINBACH ELEMENTARY SCHOOL

91 Parkland Drive
Steinbach, MB
Canada

school division

Hanover School Division
5 Chrysler Gate
Steinbach, MB

NEW WEST STEINBACH ELEMENTARY SCHOOL
91 Parkland Drive, Steinbach, MB

drawing information

ELECTRICAL PANEL SCHEDULES (CONT.)

drawn by: **KAM**
approved by: **VEK**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

E6 04

PANEL: 2D

LOCATION: MECH. 2007
SUPPLY FROM: CDP-208-D
REMARKS:

VOLTAGE: **120/208V/3Ø/4W**
CAPACITY: 200 A
MOUNTING: SURFACE MOUNTED

MAINS TYPE: MAIN LUG ONLY
AIC RATING: 14kA

DESIGNATION			LOAD (VA)	BKR	POLE	CCT	PHASE A	PHASE B	PHASE C	CCT	POLE	BKR	LOAD (VA)			DESIGNATION
LIGHTING - GYMNASIUM 1017			640	15 A	2	1				22						
						2				23						
LIGHTING - GYMNASIUM 1017			640	15 A	2	3				24						
						4				25						
LIGHTING - CUST. 2202, F W/C 2102, M W/C 2101, MECH. 2007			456	15 A	1	5				26						
LIGHTING - CLASSROOM A 2112			440	15 A	1	6				27						
SPARE	--		--	15 A	1	7				28						
SPARE	--		--	15 A	1	8				29						
SPARE	--		--	15 A	1	9				30						
SPARE	--		--	15 A	1	10				31						
RECEPTACLE - SERVER 2203	1R		200	20 A	1	11				32						
RECEPTACLE - SERVER 2203	1R		200	20 A	1	12				33						
						13				34						
						14				35						
						15				36						
						16				37	1	20 A	--		--	SPARE
RECEPTACLES - CUST. 2202	2R		700	20 A	1	17				38	1	20 A	--		--	SPARE
RECEPTACLE - CUST. 2202	1R		200	20 A	1	18				39	1	15 A	--		--	SPARE
RECEPTACLES - CORR. 2000	2R		400	15 A	1	19				40	1	15 A	--		--	SPARE
						20				41	1	15 A	--		--	SPARE
						21				42	1	15 A	--		--	SPARE

NOTES:

LOADS -	PH. A	1040 VA
	PH. B	1676 VA
	PH. C	1160 VA
	TOTAL	**3876 VA**

PANEL: 2E

LOCATION: MECH. 2005
SUPPLY FROM: CDP-208-D
REMARKS:

VOLTAGE: **120/208V/3Ø/4W**
CAPACITY: 200 A
MOUNTING: SURFACE MOUNTED

MAINS TYPE: MAIN LUG ONLY
AIC RATING: 18kA

DESIGNATION			LOAD (VA)	BKR	POLE	CCT	PHASE A	PHASE B	PHASE C	CCT	POLE	BKR	LOAD (VA)			DESIGNATION
LIGHTING - MECH. 2005			640	15 A	1	1				22	1	15 A	200		1R	RECEPTACLE - UNIV. 2204
LIGHTING - MPR 1046			1039	15 A	1	2				23	2	20 A	2829			EV-2 EVAPORATOR, CU-2 CONDENSING UNIT - R#, SERVER 2217
LIGHTING - CORR. 2000, LIFT 1014			1453	20 A	1	3				24						
LIGHTING - CALM 2006, OFFICE 2002, PRINT 2201, RESOURCE 2001, UNIV. 2204			624	15 A	1	4				25	1	15 A	400			ADO - RESOURCE 2001
SPARE	--		--	15 A	1	5				26	1	15 A	400			ADO - UNIV. 2204
SPARE	--		--	15 A	1	6				27						
SPARE	--		--	15 A	1	7				28						
SPARE	--		--	15 A	1	8				29						
SPARE	--		--	15 A	1	9				30						
SPARE	--		--	15 A	1	10				31						
RECEPTACLE - RESOURCE 2001	1R		200	15 A	1	11				32						
RECEPTACLE - RESOURCE 2001	1R		200	15 A	1	12				33						
RECEPTACLES - RESOURCE 2001	3R		600	15 A	1	13				34						
RECEPTACLES, CLOCK - RESOURCE 2001	3R		640	15 A	1	14				35						
RECEPTACLES, AUTOMATED PLUMBING FIXTURE - RESOURCE 2001	2R		420	15 A	1	15				36						
RECEPTACLES - OFFICE 2002	4R		800	15 A	1	16				37						
RECEPTACLE - PRINT 2201	1R		200	15 A	1	17				38						
RECEPTACLE - PRINT 2201	1R		200	15 A	1	18				39						
COPIER - PRINT 2201	1R		200	20 A	1	19				40						
HAND DRYER - UNIV. 2204			1400	20 A	1	20				41						
RECEPTACLE, AUTOMATED PLUMBING FIXTURE - PRINT 2201, UNIV. 2204	1R		220	15 A	1	21				42						

NOTES:

LOADS -	PH. A	3464 VA
	PH. B	5293 VA
	PH. C	3908 VA
	TOTAL	**12665 VA**

PANEL: EM

LOCATION: MECH. 2005
SUPPLY FROM: CDP-208-D
REMARKS:

VOLTAGE: **120/208V/1Ø/3W**
CAPACITY: 100 A
MOUNTING: SURFACE MOUNTED

MAINS TYPE: MAIN LUG ONLY
AIC RATING: 25kA

DESIGNATION			LOAD (VA)	BKR	POLE	CCT	PHASE A	PHASE B	CCT	POLE	BKR	LOAD (VA)			DESIGNATION
EXIT LIGHTS - MAIN FLOOR CORE & EAST			36	15 A	1	1			13						
EXIT LIGHTS - MAIN FLOOR NORTH			27	15 A	1	2			14						
EXIT LIGHTS - SECOND FLOOR			21	15 A	1	3			15						
EXIT LIGHTS - CRAWLSPACE			24	15 A	1	4			16						
EMERGENCY LIGHTING - CRAWLSPACE			300	15 A	1	5			17						
EMERGENCY LIGHTING - MAIN FLOOR EAST			524	15 A	1	6			18						
EMERGENCY LIGHTING - MAIN FLOOR CORE			979	15 A	1	7			19						
EMERGENCY LIGHTING - MAIN FLOOR NORTH			975	15 A	1	8			20						
EMERGENCY LIGHTING - SECOND FLOOR EAST			1234	20 A	1	9			21	1	15 A	--		--	SPARE
EMERGENCY LIGHTING - SECOND FLOOR NORTH			700	15 A	1	10			22	1	15 A	--		--	SPARE
EMERGENCY LIGHTING - MAIN & MINI GYM			960	15 A	2	11			23	1	15 A	--		--	SPARE
						12			24	1	15 A	--		--	SPARE

NOTES:

LOADS -	PH. A	3050 VA
	PH. B	2729 VA
	TOTAL	**5779 VA**

PANEL: 2M

LOCATION: MECH. 2005
SUPPLY FROM: CDP-208-D
REMARKS:

VOLTAGE: **120/208V/3Ø/4W**
CAPACITY: 200 A
MOUNTING: SURFACE MOUNTED

MAINS TYPE: MAIN LUG ONLY
AIC RATING: 18kA

DESIGNATION			LOAD (VA)	BKR	POLE	CCT	PHASE A	PHASE B	PHASE C	CCT	POLE	BKR	LOAD (VA)			DESIGNATION
MISC. CONTROLS CONNECTION - MECH. 2005			1000	15 A	1	1				22						
RECEPTACLES - MECH. 2005	2R		400	20 A	1	2				23						
RECEPTACLES - MECH. 2005	2R		400	20 A	1	3				24						
RECEPTACLES - MECH. 2005	2R		400	20 A	1	4				25						
RECEPTACLE - MECH. 2005	1R		200	20 A	1	5				26						
BMS - MECH. 2005	1R		1400	20 A	1	6				27						
SPARE	--		--	15 A	1	7				28						
SPARE	--		--	15 A	1	8				29						
SPARE	--		--	15 A	1	9				30						
GF-1 GLYCOL FILL - MECH. 2005			240	15 A	1	10				31						
HEAT TRACE - ROOF			800	15 A	1	11				32						
UH-11 UNIT HEATER, UH-12 UNIT HEATER - MECH. 2005			150	15 A	1	12				33						
						13				34						
PP-9 DHWR PUMP - MECH. 2005			1176	20 A	1	14				35						
RECEPTACLE - ROOF	1R		500	20 A	1	15				36						
HEAT TRACE - ROOF			800	15 A	1	16				37						
HEAT TRACE - ROOF			800	15 A	1	17				38						
HEAT TRACE - ROOF			800	15 A	1	18				39						
						19				40						
						20				41						
						21				42						

NOTES:

LOADS -	PH. A	2440 VA
	PH. B	3376 VA
	PH. C	3250 VA
	TOTAL	**9066 VA**

PANEL: 2S

LOCATION: SERVER 2217
SUPPLY FROM: TR-208-2S
REMARKS:

VOLTAGE: **120/208V/3Ø/4W**
CAPACITY: 200 A
MOUNTING: SURFACE MOUNTED

MAINS TYPE: MAIN LUG ONLY
AIC RATING: 10kA

DESIGNATION			LOAD (VA)	BKR	POLE	CCT	PHASE A	PHASE B	PHASE C	CCT	POLE	BKR	LOAD (VA)			DESIGNATION
SPARE	--		--	15 A	1	1				22	1	20 A	400		2R	RECEPTACLES - SERVER 2217
SPARE	--		--	15 A	1	2				23	2	15 A	1500			RECEPTACLE - SERVER 2203
SPARE	--		--	15 A	1	3				24						
SPARE	--		--	15 A	1	4				25						
SPARE	--		--	15 A	1	5				26						
SPARE	--		--	15 A	1	6				27						
SPARE	--		--	15 A	1	7				28						
SPARE	--		--	15 A	1	8				29						
SPARE	--		--	15 A	1	9				30						
SPARE	--		--	15 A	1	10				31						
FACP - SERVER 2217			800	15 A	1	11				32						
FACP - SERVER 2217			400	15 A	1	12				33						
RECEPTACLES - SERVER 2217	2R		400	15 A	1	13				34						
EQUIPMENT RACK - SERVER 2217	1R		1500	30 A	2	14				35						
						15				36						
EQUIPMENT RACK - SERVER 2217	1R		1500	30 A	2	16				37						
						17				38						
EQUIPMENT RACK - SERVER 2217	1R		1500	30 A	2	18				39						
						19				40						
LIGHTING CONTROL PANEL - SERVER 2217			900	15 A	1	20				41						
DMP SECURITY PANEL - SERVER 2217			500	15 A	1	21				42						

NOTES:

LOADS -	PH. A	2300 VA
	PH. B	3950 VA
	PH. C	3150 VA
	TOTAL	**9400 VA**

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Certificate of Authorization
SMS Engineering Ltd.
No. 166

PROVINCE OF MANITOBA
V.E. UKANE
2023 MARCH 27
Member 30363
REGISTERED PROFESSIONAL ENGINEER

project information

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Steinbach, MB
Canada

school division

Hanover School Division
5 Chrysler Gate
Steinbach, MB

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drawing information

ELECTRICAL PANEL SCHEDULES (CONT.)

drawn by: **KAM**
approved by: **VEK**

scale: **AS NOTED**
date issued: **2023.03.24**
proj. #: **2021.49**
rev. #: **R-0**

E6 05

REVIT PROJECT SERVER PATH
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PANEL: PK1

LOCATION: EAST PARKING LOT
SUPPLY FROM: TR-208-PK1
REMARKS:

VOLTAGE: **120/208V/3Ø/4W**
CAPACITY: 200 A
MOUNTING: SURFACE MOUNTED

MAINS TYPE: MAIN LUG ONLY
AIC RATING: 10kA

DESIGNATION	LOAD (VA)	BKR	POLE	CCT	PHASE A	PHASE B	PHASE C	CCT	POLE	BKR	LOAD (VA)	DESIGNATION
PARKING LOT RECEPTACLE	200	15 A	1	1				31	2	15 A	500	PARKING LOT RECEPTACLE
PARKING LOT RECEPTACLE	500	15 A	2	2				32				
				3				33	2	15 A	500	PARKING LOT RECEPTACLE
PARKING LOT RECEPTACLE	500	15 A	2	4				34				
				5				35	2	15 A	500	PARKING LOT RECEPTACLE
PARKING LOT RECEPTACLE	500	15 A	2	6				36				
				7				37	2	15 A	500	PARKING LOT RECEPTACLE
PARKING LOT RECEPTACLE	500	15 A	2	8				38				
				9				39	1	15 A	400	120V FOR STORAGE SHED
PARKING LOT RECEPTACLE	500	15 A	2	10				40	2	20 A	1360	EAST PARKING LOT LIGHTING
				11				41				
PARKING LOT RECEPTACLE	500	15 A	2	12				42	2	15 A	850	EAST PARKING LOT LIGHTING
				13				43				
PARKING LOT RECEPTACLE	500	15 A	2	14				44				
				15				45				
PARKING LOT RECEPTACLE	500	15 A	2	16				46				
				17				47				
SPARE	--	--	15 A	2	18				48				
					19				49				
SPARE	--	--	15 A	2	20				50				
					21				51				
PARKING LOT RECEPTACLE	200	15 A	1	22				52				
PARKING LOT RECEPTACLE	500	15 A	2	23				53				
				24				54				
PARKING LOT RECEPTACLE	500	15 A	2	25				55	1	15 A	--	-- SPARE
				26				56	1	15 A	--	-- SPARE
PARKING LOT RECEPTACLE	500	15 A	2	27				57	2	15 A	--	-- SPARE
				28				58				
PARKING LOT RECEPTACLE	500	15 A	2	29				59	2	15 A	--	-- SPARE
				30				60				

NOTES:

LOADS -		
	PH. A	4005 VA
	PH. B	3680 VA
	PH. C	3325 VA
	TOTAL	**11010 VA**

PANEL: PK2

LOCATION: WEST PARKING LOT
SUPPLY FROM: TR-208-PK2
REMARKS:

VOLTAGE: **120/208V/3Ø/4W**
CAPACITY: 400 A
MOUNTING: SURFACE MOUNTED

MAINS TYPE: MAIN LUG ONLY
AIC RATING: 10kA

DESIGNATION	LOAD (VA)	BKR	POLE	CCT	PHASE A	PHASE B	PHASE C	CCT	POLE	BKR	LOAD (VA)	DESIGNATION
PARKING LOT RECEPTACLE	500	15 A	2	1				22	2	15 A	500	PARKING LOT RECEPTACLE
				2				23				
PARKING LOT RECEPTACLE	500	15 A	2	3				24	2	15 A	500	PARKING LOT RECEPTACLE
				4				25				
PARKING LOT RECEPTACLE	500	15 A	2	5				26				
				6				27				
PARKING LOT RECEPTACLE	500	15 A	2	7				28				
				8				29				
PARKING LOT RECEPTACLE	500	15 A	2	9				30				
				10				31				
PARKING LOT RECEPTACLE	500	15 A	2	11				32				
				12				33				
PARKING LOT RECEPTACLE	500	15 A	2	13				34	1	15 A	--	-- SPARE
				14				35	1	15 A	--	-- SPARE
PARKING LOT RECEPTACLE	500	15 A	2	15				36	1	15 A	--	-- SPARE
				16				37	2	15 A	--	-- SPARE
PARKING LOT RECEPTACLE	500	15 A	2	17				38				
				18				39	2	15 A	--	-- SPARE
PARKING LOT RECEPTACLE	500	15 A	2	19				40				
				20				41	2	15 A	--	-- SPARE
PARKING LOT RECEPTACLE	200	15 A	1	21				42				

NOTES:

LOADS -		
	PH. A	5695 VA
	PH. B	5580 VA
	PH. C	5275 VA
	TOTAL	**16550 VA**

PANEL: PK2

LOCATION: WEST PARKING LOT
SUPPLY FROM: PK2
REMARKS:

VOLTAGE: **120/208V/3Ø/4W**
CAPACITY: 400 A
MOUNTING: SURFACE MOUNTED

MAINS TYPE: MAIN LUG ONLY
AIC RATING: 10kA

DESIGNATION	LOAD (VA)	BKR	POLE	CCT	PHASE A	PHASE B	PHASE C	CCT	POLE	BKR	LOAD (VA)	DESIGNATION
WEST PARKING LOT LIGHTING	1700	20 A	2	43				64	2	40 A	400	EV READY STALL
				44				65				
WEST PARKING LOT LIGHTING	1190	15 A	2	45				66	2	40 A	400	EV READY STALL
				46				67				
WEST PARKING LOT LIGHTING	1360	15 A	2	47				68	2	40 A	400	EV READY STALL
				48				69				
POWER AND DATA FOR FUTRE PYLON SIGN	200	15 A	1	49				70	2	40 A	400	EV READY STALL
PARKING LOT RECEPTACLE	500	15 A	2	50				71				
				51				72	2	40 A	400	EV READY STALL
PARKING LOT RECEPTACLE	500	15 A	2	52				73				
				53				74	2	40 A	400	EV READY STALL
PARKING LOT RECEPTACLE	500	15 A	2	54				75				
				55				76				
PARKING LOT RECEPTACLE	500	15 A	2	56				77				
				57				78				
PARKING LOT RECEPTACLE	500	15 A	2	58				79				
				59				80				
PARKING LOT RECEPTACLE	500	15 A	2	60				81				
				61				82	1	15 A	--	-- SPARE
PARKING LOT RECEPTACLE	500	15 A	2	62				83				
				63				84	2	15 A	--	-- SPARE

NOTES:

LOADS -		
	PH. A	3445 VA
	PH. B	3580 VA
	PH. C	3325 VA
	TOTAL	**10350 VA**

REVIT PROJECT SERVER
PATH:

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ELECTRICAL PANEL SCHEDULES (CONT.)

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approved by: **VEK**

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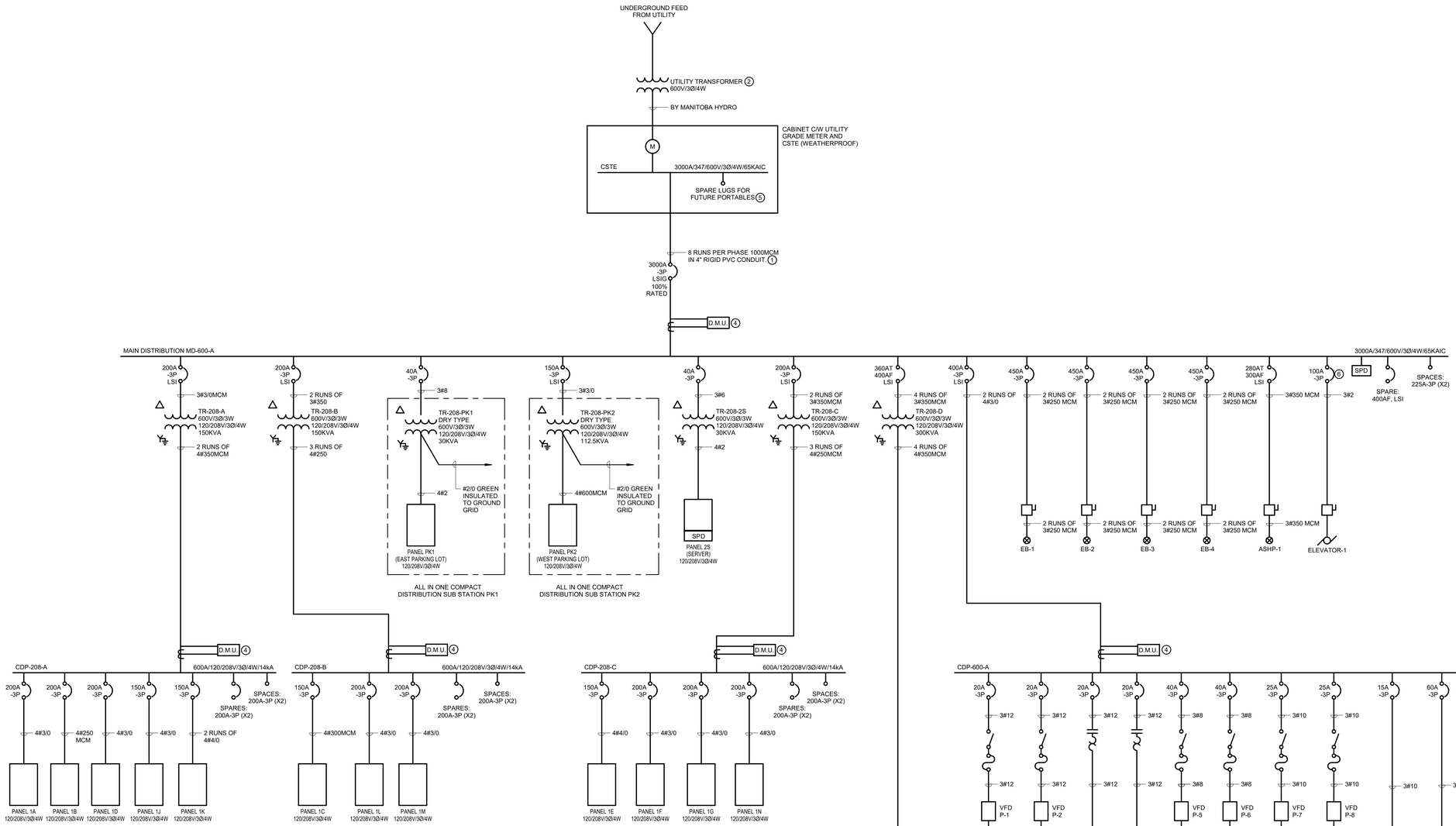
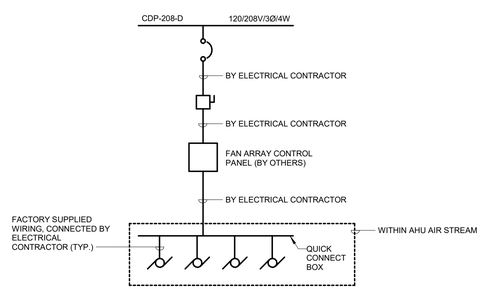
E6 06



1 ELECTRICAL SINGLE LINE DIAGRAM
E7 01
SCALE: NTS



2 TYPICAL FAN ARRAY CONNECTION DIAGRAM 7
E7 01
SCALE: NTS

GENERAL NOTES

A. ALL WIRING TO BE COPPER UNLESS NOTED OTHERWISE.

B. PROVIDE BONDING CONDUCTOR IN ALL CONDUIT RUNS.

C. TRIP SETTINGS FOR ADJUSTABLE BREAKERS TO BE PROVIDED BY CONTRACTOR'S SUPPLIER FOR THE SHORT CIRCUIT, COORDINATION AND ARC FLASH (SCCAF) STUDY. CONTRACTOR TO PROGRAM BREAKERS AND PROVIDE TEST REPORT TO SCCAF SUPPLIER..

KEY NOTES

1. ELECTRICAL CONDUIT BURIED INSTALLATION AS PER C.E.C. DIAGRAM D11A, DETAIL 8 (CALCULATED AMPACITY: 2843A).
2. TRANSFORMER PROVIDED BY MANITOBA HYDRO. ENSURE TRANSFORMER IMPEDANCE IS 4% OR GREATER, COORDINATE WITH MANITOBA HYDRO AND OWNER AS REQUIRED.
3. PROVIDE FUSED DISCONNECTS FOR VFD'S. FUSE SIZE AND TYPE AS PER MANUFACTURERS RECOMMENDATION.
4. DIGITAL METER TO BE CAPABLE OF CURRENT, VOLTAGE, POWER, POWER QUALITY, HARMONICS, WAVE FORM CAPTURE AND REMOTE MONITORING. PROVIDE FACTORY INSTALLED CT'S, PT'S AND WIRING AS REQUIRED.
5. CSTE SHALL BE PROVISIONED WITH ONE SET OF SPARE LUGS FOR FUTURE INSTALLATION OF ONE (1) 3-WIRE FEEDER TO PORTABLE CLASSROOMS. SPARE LUGS SHALL ACCEPT WIRES SIZES IN THE RANGE OF #1 AWG TO #4/0 AWG (AS A MINIMUM).
6. ASSUMED ELEVATOR MOTOR SIZE OF 40HP. CONFIRM BREAKER SIZE WITH ELEVATOR SUPPLIER BASED ON FINAL SELECTION.
7. TYPICAL CONNECTION FOR AHU-1, 2, 3 AND RF-3 FAN ARRAYS. QUANTITY OF FAN MOTORS VARIES BY ARRAY. PROVIDE LOCAL DISCONNECT AT EQUIPMENT LOCATION. REFER TO SINGLE LINE DIAGRAM FOR WIRE SIZES AND BREAKER SIZES APPLICABLE TO EACH RESPECTIVE FAN ARRAY.
8. EMERGENCY POWER INVERTER SHALL BE RATED TO MINIMUM 25kA. UNIT SHALL SUPPLY 7kW FOR MINIMUM OF 30 MINUTES.
9. REFER TO DETAIL 2 ON THIS SHEET FOR CONNECTION DIAGRAM.

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