



ST. CLAIR CATHOLIC
DISTRICT SCHOOL BOARD

Lighting the Way ~ Rejoicing in Our Journey

REQUEST FOR TENDER
FOR
TENDER #: 653-CP1901
New North Chatham Catholic Elementary School

ADDENDUM #2

ISSUED: May 30, 2018.

DUE DATE: June 7, 2018 at 2:00:00p.m., Local Time

Mailing Address:
Mr. Tony Prizio
Purchasing Department
St. Clair Catholic District School Board
420 Creek Street
Wallaceburg, ON
N8A 4C4

This addendum forms part of the contract documents and modifies the original specifications and drawings as follows. Acknowledge receipt of this addendum in the space provided on the Form of Tender.

ARCHITECTURAL SPECIFICATIONS

1. Section 01020 Cash Allowances
 1. REPLACE Article 1.2.2.1 with the following:
 - .1 Water Treatment Allowances: **\$15,000.00**
2. Section 02620 Site Devices
 1. ADD Article 2.1.5 as follows:
 - .5 Steel Bollards:
 - .1 170mm Schedule 40 structural steel bollards, filled with concrete.
 - .2 Concrete foundations: 305mm dia. X 1220mm concrete foundations in accordance with Section 03300.
 2. ADD Article 3.2.5 as follows:
 - .5 Steel bollards, in locations at barrier free parking spaces as indicated on Site Plan;
 - .1 Concrete foundations as follows; refer to manufacturer's installation instructions:
 - .1 Auger diameters to depths specified, measured from 100mm below finished grades.
 - .2 Place bollards in concrete, plumb, true and level.
 - .3 Place bedding and concrete/ compacted asphalt paving over foundations.
3. Section 09250 Gypsum Board
 1. ADD "CGC Sheetrock Glass Mat Mold Tough" to list of acceptable materials in Article 2.1.3.1.
 2. ADD "CGC Sheetrock Glass Mat Mold Tough" to list of acceptable materials in Article 2.1.4.1.
 3. ADD "CGC Durock Glass Tile Backer Board" to list of acceptable materials in Article 2.1.5.1.
 4. ADD "CGC Securerock Glass Mat Sheathing" to list of acceptable materials in Article 2.1.6.1.
4. Section 14240 Holeless Hydraulic Elevators
 1. ADD "Vertechs" to list of acceptable manufacturers in Article 2.1.1.

ARCHITECTURAL DRAWINGS

5. Drawing A1.01 Overall Site Plan
 1. **REFER TO DRAWING ASK-001, ATTACHED FOR DETAILS AT PEDESTRIAN CROSSINGS AND BARRIER FREE PARKING SPACES.**

6. Drawing A1.02 Site Plan Signage, Details and Sections
 1. **DELETE DETAIL 6/A1.02. REFER TO SPECIFICATIONS FOR REMOVABLE BOLLARD - MB.**
7. Drawing A2.04 Partial Ground Floor Plan
 1. **IN LEARNING COMMONS 142, REVISE NOTE "FOLDING PARTITON FLOOR SOCKET – REFER TO SPEC." TO READ "SECURITY GRILLE FLOOR SOCKET – REFER TO SPEC."**
8. Drawing A2.08 Partial Ground Floor Plan
 1. **REVISE PLAN IN STAGE STORAGE 101E, AS INDICATED ON DRAWING ASK-002, ATTACHED.**
9. Drawing A2.12 Partial Second Floor Plan
 1. **AT NORTH WALL OF ATRIUM CR1-1, ADD DETAIL AND WALL TYPE AS NOTED ON DRAWING ASK-003, ATTACHED.**
10. Drawing A3.03 Reflected Ceiling Plan Details
 1. **PARTIAL REFLECTED CEILING PLAN 1/A3.03 - IN LEARNING COMMONS 142, REVISE NOTE "RECESSED FOLDING PARTITION TRACK – REFER TO DETAIL" TO READ "RECESSED SECURITY GRILLE TRACK – REFER TO DETAIL".**
 2. **DETAIL 6/A3.03: REVISE NOTE "RECESSED FOLDING PARTITION TRACK" TO READ "RECESSED SECURITY GRILLE TRACK".**
11. Drawing A3.04 Reflected Ceiling Plan Details
 1. **PARTIAL REFLECTED CEILING PLAN 2/A3.04: REPLACE DETAIL WITH THAT SHOWN ON DRAWING ASK-004, ATTACHED.**
12. Drawing A5.03 Window Elevations
 1. **REFER TO DRAWING ASK-005, ATTACHED FOR PATTERN FOR ARCHITECTURAL CONCRETE BLOCK (ARIA STONE).**
13. Drawing A7.25 Section Details
 1. **SECTION DETAIL 2/A7.25: REPLACE DETAIL WITH THAT SHOWN ON DRAWING ASK-006, ATTACHED.**

MECHANICAL SPECIFICATIONS

14. Section 15400 Plumbing

1. REVISE Clause 2.20 as follows:

2.20 **SEISMIC ROOFTOP PIPE SUPPORTS**

2.20.1 Type SPSA-4 & SPSA-6 (Adjustable Height) - rigid support pipe stands made of steel round section supports, designed to support the dead load, and provide enough strength to withstand at least 1 g of lateral seismic force. In addition to providing allowance for roof slopes, the adjustable height stands shall be used to accommodate changing pipe sizes and elevations. Seismic allowable load capacities shall be determined through third party testing per ANSI/ASHRAE Standard 171, and test reports are to be available from the manufacturer upon request. Refer to section 15001 for flashing specification.

2.20.2 The following manufacturer of the above equipment will be considered equal subject to requirements of Clause "Material and Equipment":

Portable Pipe Hangers
Taylor Pipe Supports
VAW
Vibron

2. INSERT Clause 2.3.9 and REVISE subsequent numbering accordingly:

2.3.9 **Seismic Support Stands**

2.3.9.1 Seismic Inline Pump Stands: Type SIPS - trapezoidal-shaped rigid support stands made of high strength, low alloy steel designed to be bolted to pipe flanges which support vertical inline pumps. Stands shall include neoprene grommet washers for anchor bolts and shall be designed to provide adequate restraint for connected equipment to resist seismic loads. Type SIPS-NP - Vibration isolation pads shall be furnished under pump stands as a factory supplied package. All SIPS model seismic allowable load capacities shall be determined through third party testing per ANSI/ASHRAE Standard 171, and test reports are to be available from the manufacturer upon request.

3. Clause 2.3: ADD "Gripple", "Isotech" and "VMC" to the list of equals.

15. Section 15600 – Liquid Heat Transfer

1. Clause 2.16.7: ADD "Rittling" to the list of equals.

MECHANICAL DRAWINGS

16. Drawings M1.01 and M1.02

1. **REFER TO MECHANICAL REVISION DRAWING, MR-1, ATTACHED.**

- 17. Drawing M2.03 and M2.05
 - 1. **REFER TO MECHANICAL REVISION DRAWING, MR-2, ATTACHED.**
- 18. Drawing M4.02
 - 1. **REFER TO MECHANICAL REVISION DRAWING, MR-3, ATTACHED.**
- 19. Drawing M5.05
 - 1. **REPLACE ROOFTOP PIPE SUPPORT DETAIL. REFER TO MECHANICAL REVISION DRAWING MR-4, ATTACHED.**
- 20. Drawing M6.03
 - 1. **REFER TO MECHANICAL REVISION DRAWING, MR-6, ATTACHED.**
 - 2. **REVISE BALANCING VALVE FLOW RATE DIRECTLY DOWNSTREAM OF PUMPS CP302A/B TO 23.7 L/s.**
 - 3. **REVISE BALANCING VALVE FLOW RATE DIRECTLY DOWNSTREAM OF BOILERS BLR 501A/B TO 11.9 L/s.**

ELECTRICAL SPECIFICATIONS

- 21. Section 16710 Voice Data Structured Cabling
 - 1. REVISE Clause 1.1.4 to include Commscope, Leviton and Belden as equals.
 - 2. REVISE Clause 1.2.1 to be: "AMP, Hubbell, Commscope, Leviton or Beldon Certified System Vendors."
- 22. Section 16400 Service and Distribution
 - 1. Panel 1CM: REVISE 15A 3P breaker serving "ERV-504" to be "Spare".
 - 2. Panel 1CM: REVISE 40A 3P breaker serving "ERV-504 Re-Heat" to be "ERV-504".
 - 3. REVISE Clause 2.6.18 to include "Mersen" as an equal manufacturer.

ELECTRICAL DRAWINGS

- 23. Drawing E1.02 – Luminaire Schedule

1. REVISE TYPE N TO BE:

N	Juno CAT # USTLR1-3K-SN, 2.5" DIA LED Downlight. Provide TL602E-10-WH driver	Recessed	Millwork	286LU LED	120V	3W	Crescent, GVA Lighting, Contech Lighting, Nora Lighting
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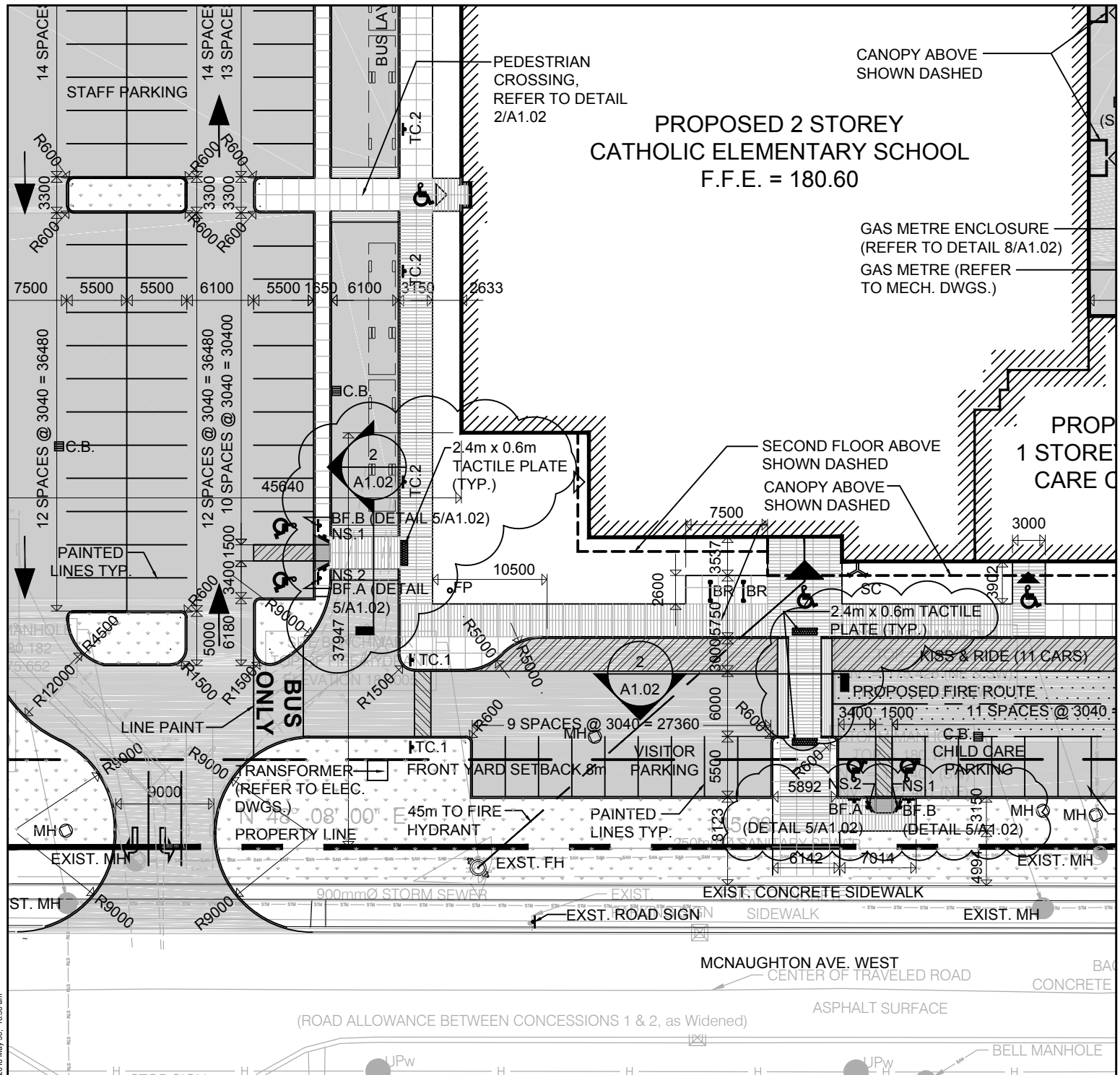
24. Drawing E3.05 – Detail 1: Electrical Room
 1. **REVISE NOTE 3 TO BE: “53mm CONDUIT FOR POINT OF COMMON COUPLING REQUIRED FOR FUTURE PV INSTALLATION. PROVIDE CONDUIT AND SEALED MASONRY BOX.”**

25. Drawing E5.01 – Dimming Room Controller Lighting Control Diagram
 1. **REVISE NOTE 6 TO BE: “LIGHTING IN CORRIDORS, STAIRS AND EXITS TO DIM TO MINIMUM 33% ON VACANCY AND 100% ON OCCUPANCY. AFTER SECURITY SYSTEM IS ARMED, LIGHTING TO BE 0% ON VACANCY AND 100% ON OCCUPANCY.”**

26. Drawing E5.01 – CCTV Rough-In Detail
 1. **REVISE DETAIL TO INCLUDE CONDUIT TO BUILDING EXTERIOR COMPLETE WITH EXTERIOR BOX AND COVER.**

THIS CONCLUDES ADDENDUM #2.

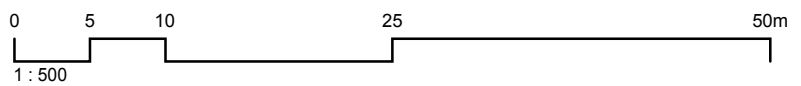
+ Drawings ASK-001 to ASK-006 inclusive, Drawings MR-1 to MR-5 inclusive.



**PROPOSED 2 STOREY
CATHOLIC ELEMENTARY SCHOOL**
F.F.E. = 180.60

1
ASK-001

PARTIAL SITE PLAN



North Chatham Catholic Elementary School
801 McNaughton Avenue West, Chatham Ontario St. Clair Catholic District School Board

Project No.:
886

**TACTILE PLATE & PARKING SIGN POST
DETAIL LOCATIONS ON 1/A1.01**

Plot Date:
2018-05-30

CORNERSTONE
ARCHITECTURE

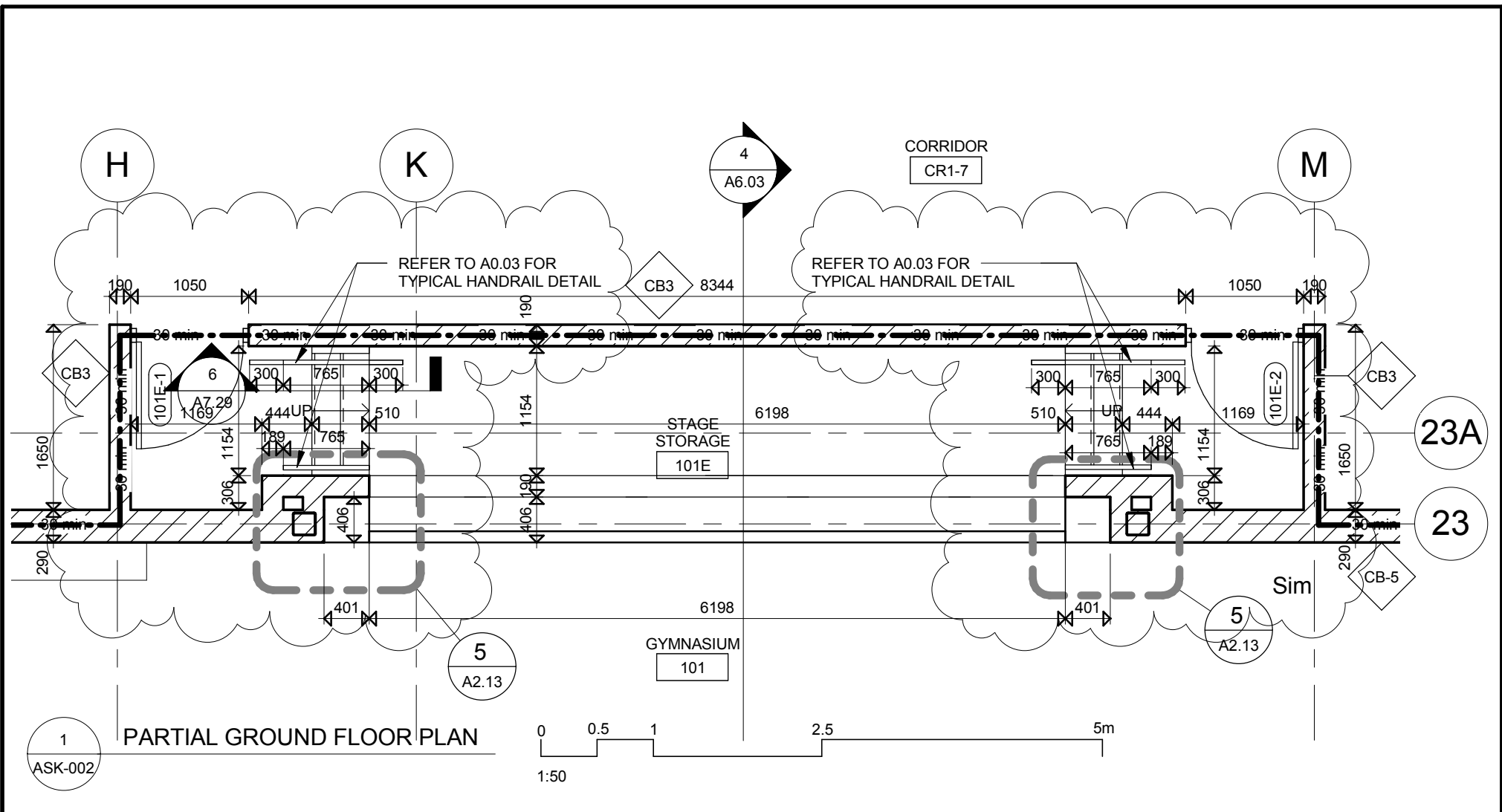
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ASK-001

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N:\Projects\886 North Chatham Catholic Elementary School\DRAWINGS\CONSTRUCTION\886 - Site Plan.dwg, 2018 May 30, 10:56 am



North Chatham Catholic Elementary School

801 McNaughton Avenue West, Chatham Ontario

St. Clair Catholic District School Board

Project No.:

886

Plot Date:

2018-05-30

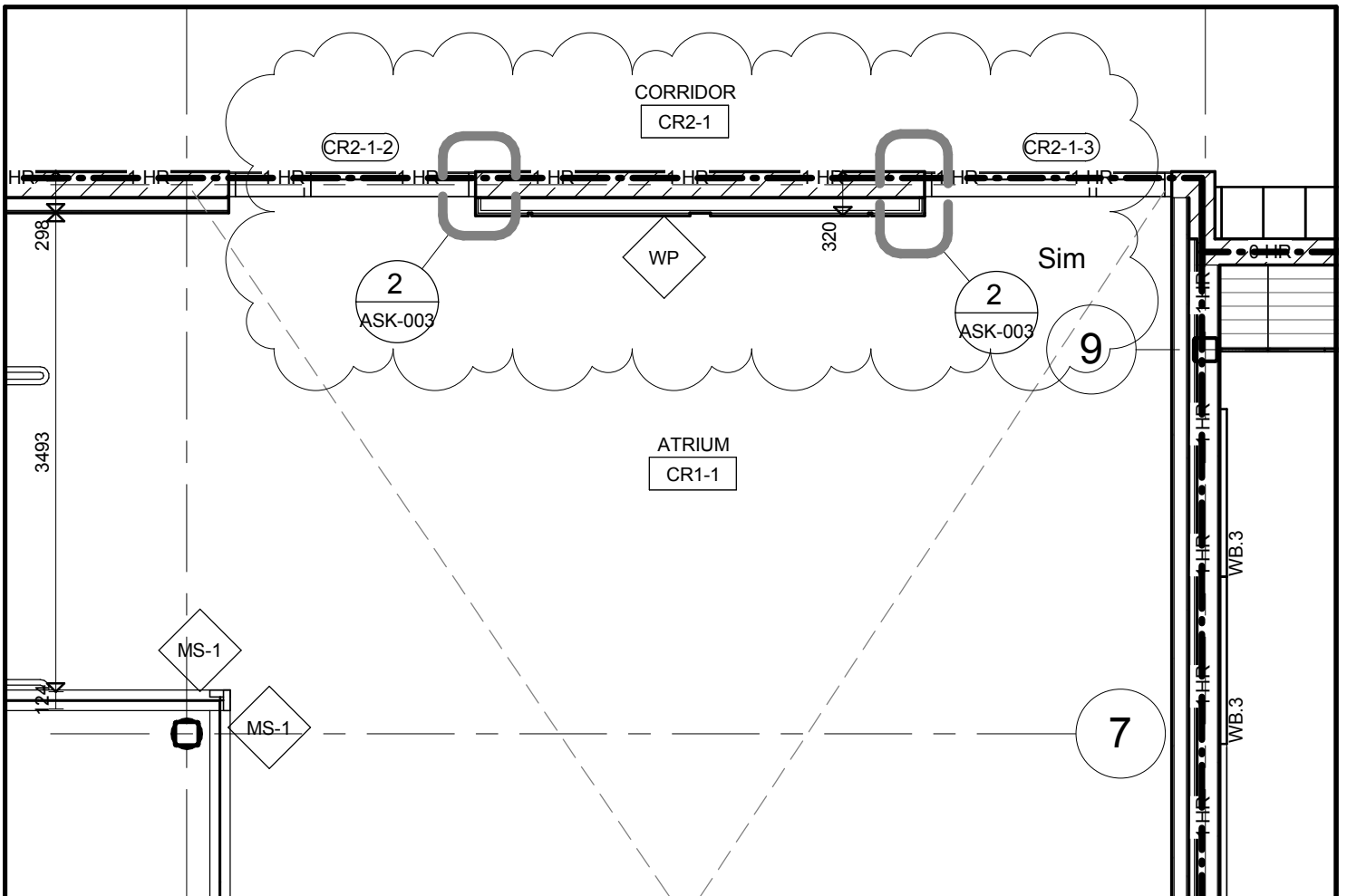
REVISED STAIR & DOOR LOCATION AT STAGE STORAGE 101E ON 1/A2.08



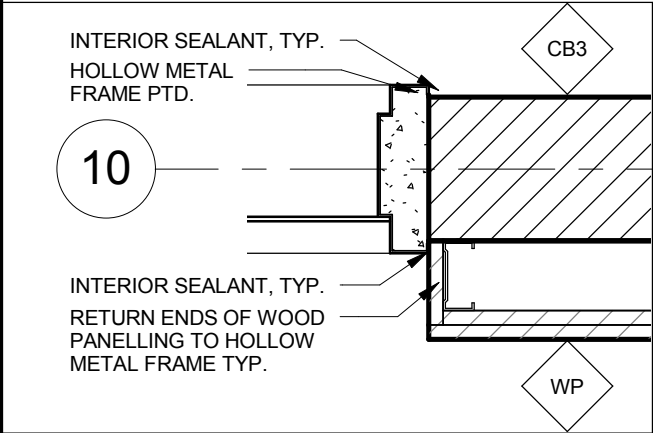
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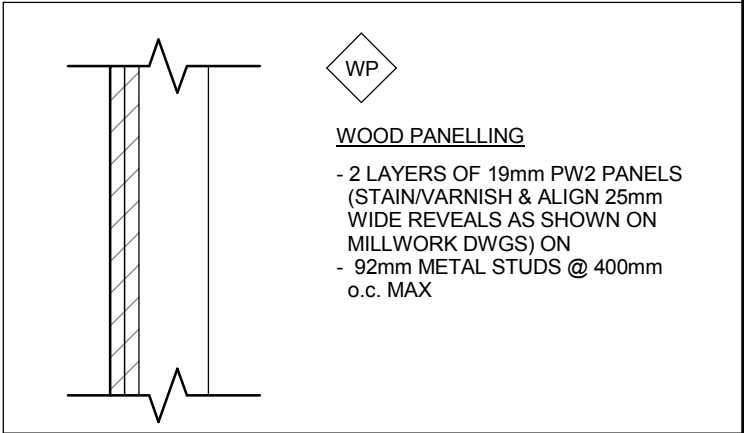
ASK-002



1 PARTIAL SECOND FLOOR PLAN
ASK-003



2 PLAN DETAIL
ASK-003



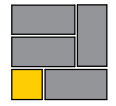
3 WALL TYPE
ASK-003

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Project No.:
886

PLAN DETAIL ON 1/A2.12 WITH WP WALL TYPE

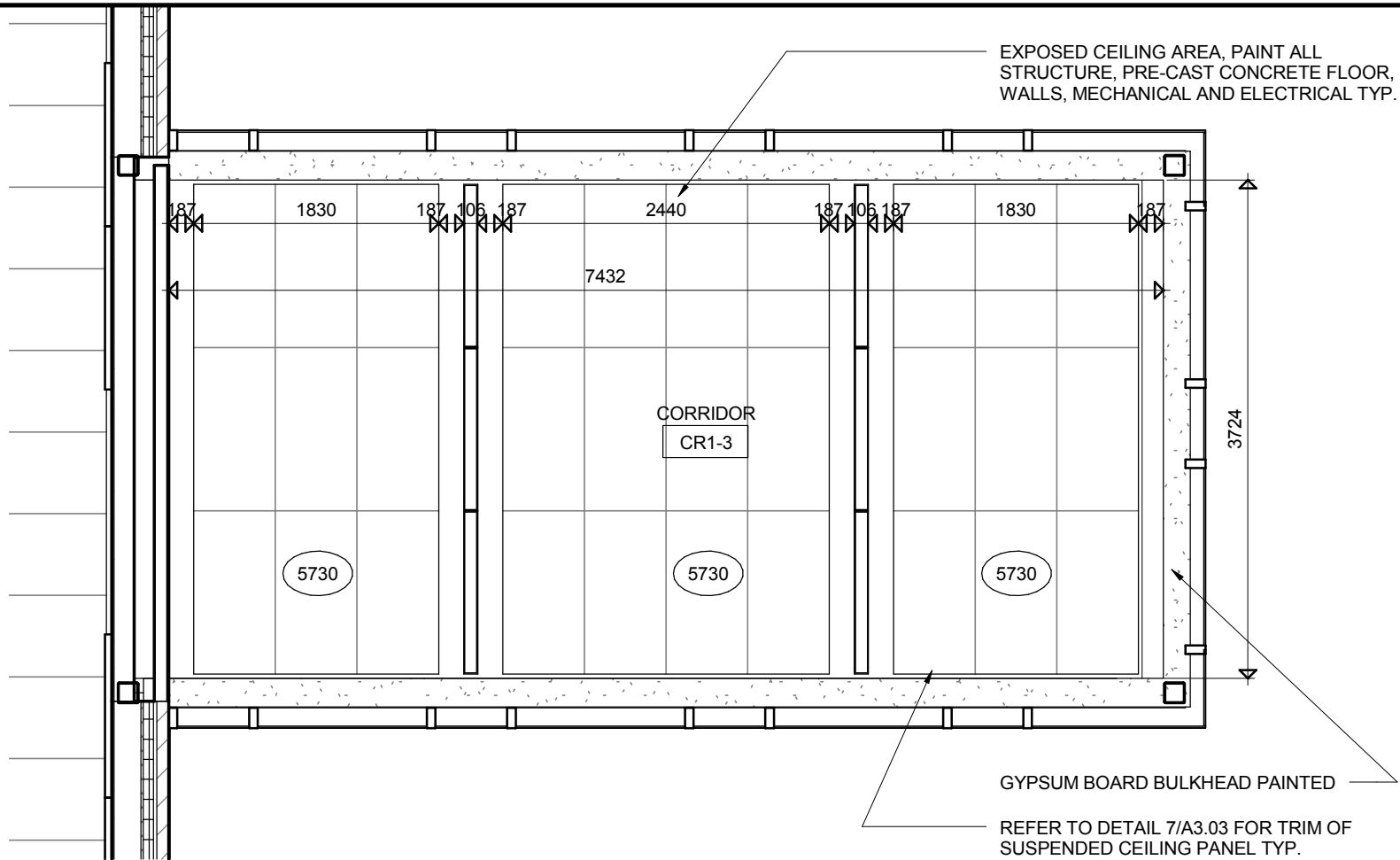
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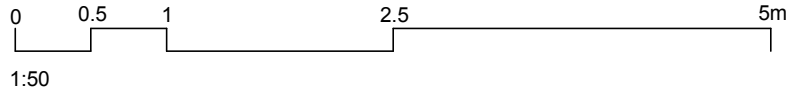
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ASK-003



1
ASK-004

PARTIAL REFLECTED CEILING PLAN



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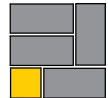
Project No.:

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Plot Date:

2018-05-30

REVISED PARTIAL REFLECTED CEILING PLAN 2/A3.04

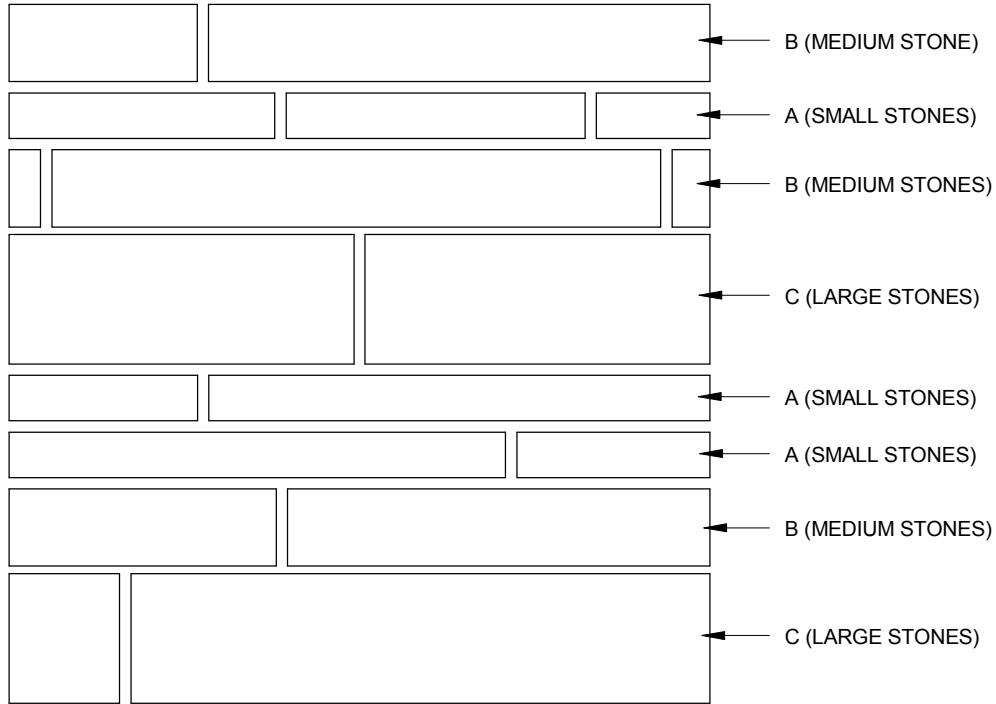


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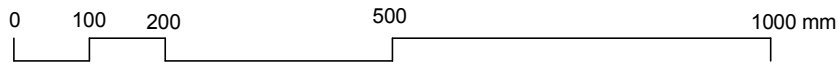
ASK-004



1 CUBE LARGE STONES +
 1 CUBE SMALL AND MEDIUM STONES
 - LINEAR PATTERN



ARCHITECTURAL CONCRETE BLOCK ELEVATION DETAIL



1:10

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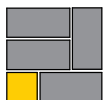
Project No.:

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ADD ARCHITECTURAL CONCRETE BLOCK
 ELEVATION DETAIL TO A5.03

Plot Date:

2018-05-30



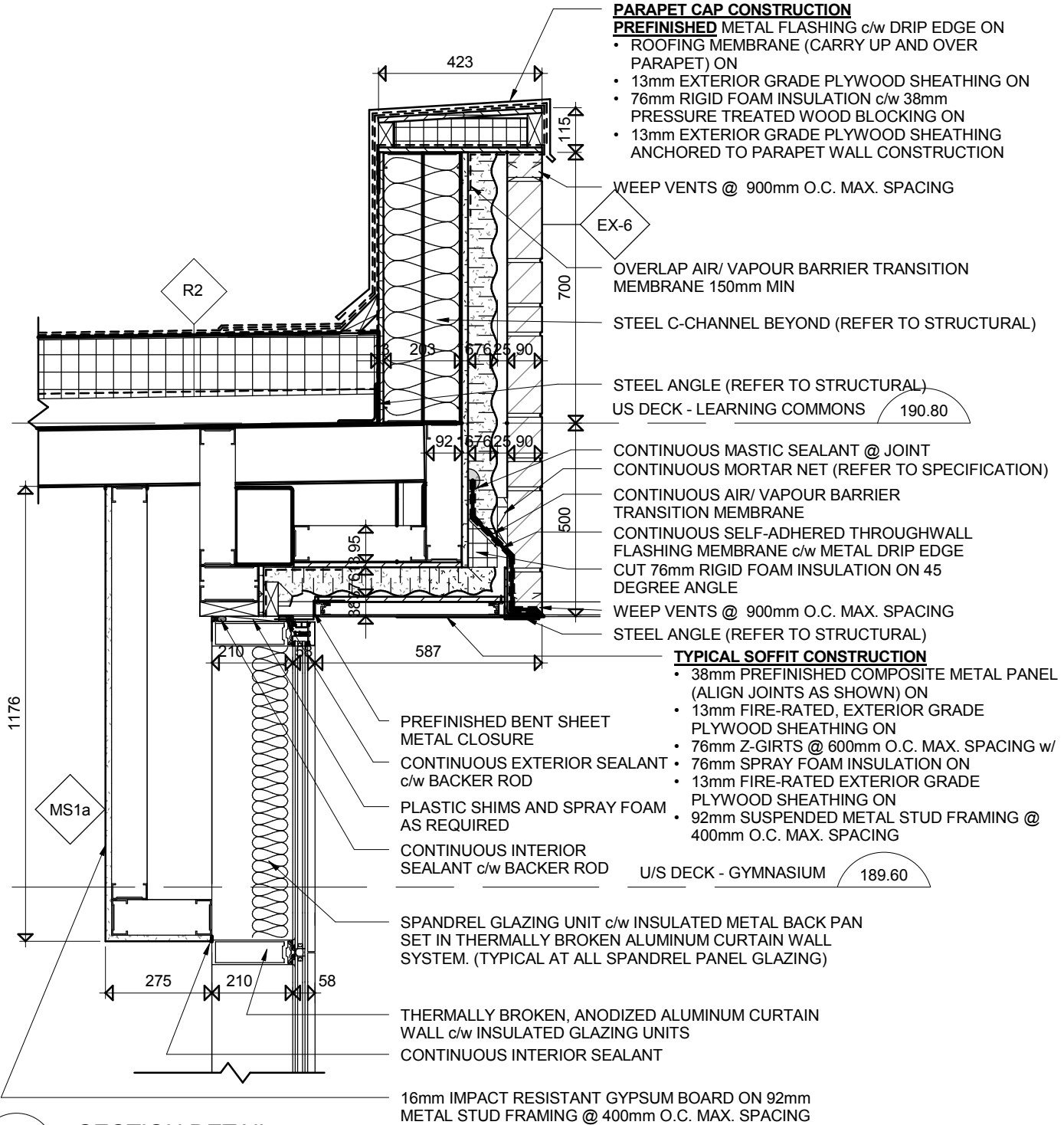
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ASK-005



PARAPET CAP CONSTRUCTION

- PREFINISHED** METAL FLASHING c/w DRIP EDGE ON
- ROOFING MEMBRANE (CARRY UP AND OVER PARAPET) ON
- 13mm EXTERIOR GRADE PLYWOOD SHEATHING ON
- 76mm RIGID FOAM INSULATION c/w 38mm PRESSURE TREATED WOOD BLOCKING ON
- 13mm EXTERIOR GRADE PLYWOOD SHEATHING ANCHORED TO PARAPET WALL CONSTRUCTION

WEEP VENTS @ 900mm O.C. MAX. SPACING

OVERLAP AIR/ VAPOUR BARRIER TRANSITION MEMBRANE 150mm MIN

STEEL C-CHANNEL BEYOND (REFER TO STRUCTURAL)

STEEL ANGLE (REFER TO STRUCTURAL)

US DECK - LEARNING COMMONS 190.80

CONTINUOUS MASTIC SEALANT @ JOINT

CONTINUOUS MORTAR NET (REFER TO SPECIFICATION)

CONTINUOUS AIR/ VAPOUR BARRIER TRANSITION MEMBRANE

CONTINUOUS SELF-ADHERED THROUGHWALL FLASHING MEMBRANE c/w METAL DRIP EDGE CUT 76mm RIGID FOAM INSULATION ON 45 DEGREE ANGLE

WEEP VENTS @ 900mm O.C. MAX. SPACING

STEEL ANGLE (REFER TO STRUCTURAL)

TYPICAL SOFFIT CONSTRUCTION

- 38mm PREFINISHED COMPOSITE METAL PANEL (ALIGN JOINTS AS SHOWN) ON
- 13mm FIRE-RATED, EXTERIOR GRADE PLYWOOD SHEATHING ON
- 76mm Z-GIRTS @ 600mm O.C. MAX. SPACING w/
- 76mm SPRAY FOAM INSULATION ON
- 13mm FIRE-RATED EXTERIOR GRADE PLYWOOD SHEATHING ON
- 92mm SUSPENDED METAL STUD FRAMING @ 400mm O.C. MAX. SPACING

U/S DECK - GYMNASIUM 189.60

PREFINISHED BENT SHEET METAL CLOSURE

CONTINUOUS EXTERIOR SEALANT c/w BACKER ROD

PLASTIC SHIMS AND SPRAY FOAM AS REQUIRED

CONTINUOUS INTERIOR SEALANT c/w BACKER ROD

SPANDREL GLAZING UNIT c/w INSULATED METAL BACK PAN SET IN THERMALLY BROKEN ALUMINUM CURTAIN WALL SYSTEM. (TYPICAL AT ALL SPANDREL PANEL GLAZING)

THERMALLY BROKEN, ANODIZED ALUMINUM CURTAIN WALL c/w INSULATED GLAZING UNITS

CONTINUOUS INTERIOR SEALANT

16mm IMPACT RESISTANT GYPSUM BOARD ON 92mm METAL STUD FRAMING @ 400mm O.C. MAX. SPACING

SECTION DETAIL

1

ASK-006



1:10

North Chatham Catholic Elementary School

801 McNaughton Avenue West, Chatham Ontario St. Clair Catholic District School Board

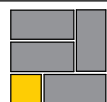
Project No.:

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REVISED SECTION DETAIL 2/A7.25

Plot Date:

2018-05-30



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ASK-006

FANS

DRAWING REFERENCE	LOCATION	SERVICE	MANUFACTURER	MODEL	AIR VOLUME (L/s)	STATIC PRESSURE (Pa)	FAN RPM	MOTOR HP	ELECTRICAL V/Ph/Hz	INTEL SOUND POWER LEVELS (10 ⁻¹² WATTS)								REMARKS
										1	2	3	4	5	6	7	8	
EF-2	ROOF	106N	COOK	165VX17DEC	265	275	1,222	1/2	120/1/60	67	69	68	62	60	59	56	51	

* PROVIDE FANS WITH EC MOTORS
 ** PROVIDE FLEX CONNECTORS AT CONNECTION FROM FAN TO DUCTWORK.

PUMPS

DRAWING REFERENCE	MANUFACTURER	MODEL	SERVICE	FLOW (L/S)	HEAD (kPa)	EFFICIENCY (%)	RPM	HP	ELECTRICAL
CP-305	BELL & GOSSETT	E90-1.5AB	PERIMETER HEATING	2.4	125	59	1800	1.5	575/3/60
CP-306A/B	BELL & GOSSETT	E-60-2x2x7	AHU-101	6.15	101	67	1800	2	575/3/60

* PUMP TO BE STAINLESS STEEL OR BRONZE CONSTRUCTION.
 ** PUMP MOTOR TO BE SUITABLE FOR VARIABLE SPEED DRIVE.
 *** FUTURE FLOW SHOWN. CURRENT FLOW IS 23.7 L/S

HEAT PUMPS


DRAWING REFERENCE	MANUFACTURER	MODEL	COOLING CAPACITY		AIR QUANTITY (l/s)	EXTERNAL STATIC PRESSURE (Pa)	WATER FLOW (l/s)	MAX. WATER PRESSURE DROP (kPa)	HEATING CAPACITY (kW)	ELECTRICAL		MIN EER
			TOTAL (kW)	SENSIBLE (kW)						V/PH/Hz	MCA	
HP-407	DAIKIN	WGSB 48	13.8	10.3	755	74	0.75	18	17.1	208/3/60	24.4	14

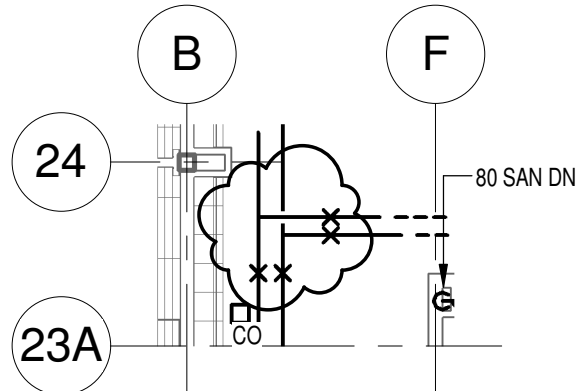
* COOLING SELECTION BASED ON 23.8/17.2°C ENTERING AIR, 32.2°C ENTERING WATER, 38.8° LEAVING WATER.
 ** MAXIMUM PRESSURE DROP INCLUDES LOSSES THROUGH SUPPLY AND RETURN HOSES.
 *** HEATING SELECTION BASED ON 21.1°C ENTERING AIR, 20.0° ENTERING WATER.

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 DATE PLOTTED: 30-May-2018 12:54 PM

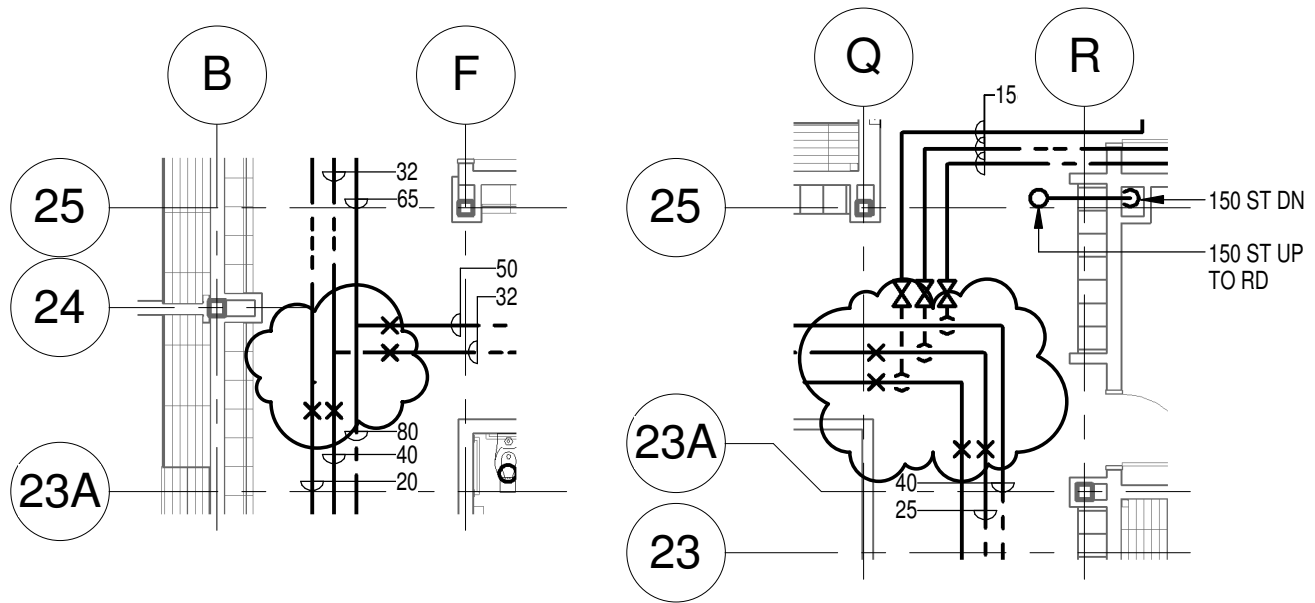
REVISION TO DRAWING M1.01 & M1.02

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	Project NORTH CHATHAM CATHOLIC ELEMENTARY SCHOOL ST. CLAIR CATHOLIC DISTRICT SCHOOL BOARD <small>801 McNAUGHTON AVE. CHATHAM, ONTARIO</small>		Checked MJM	Project No. 8370
			Approved MJM	Drawing No. MR-1
			Scale AS NOTED	



PARTIAL GROUND FLOOR PLAN - NORTH PLUMBING
SCALE 1 : 100



PARTIAL SECOND FLOOR PLAN - NORTH PLUMBING
SCALE 1 : 100

SHEET NAME: MR-2 PARTIAL GROUND AND SECOND FLOOR PLAN NORTH - PLUMBING REVISION
DATE PLOTTED: 2018-05-30 12:52:58 PM

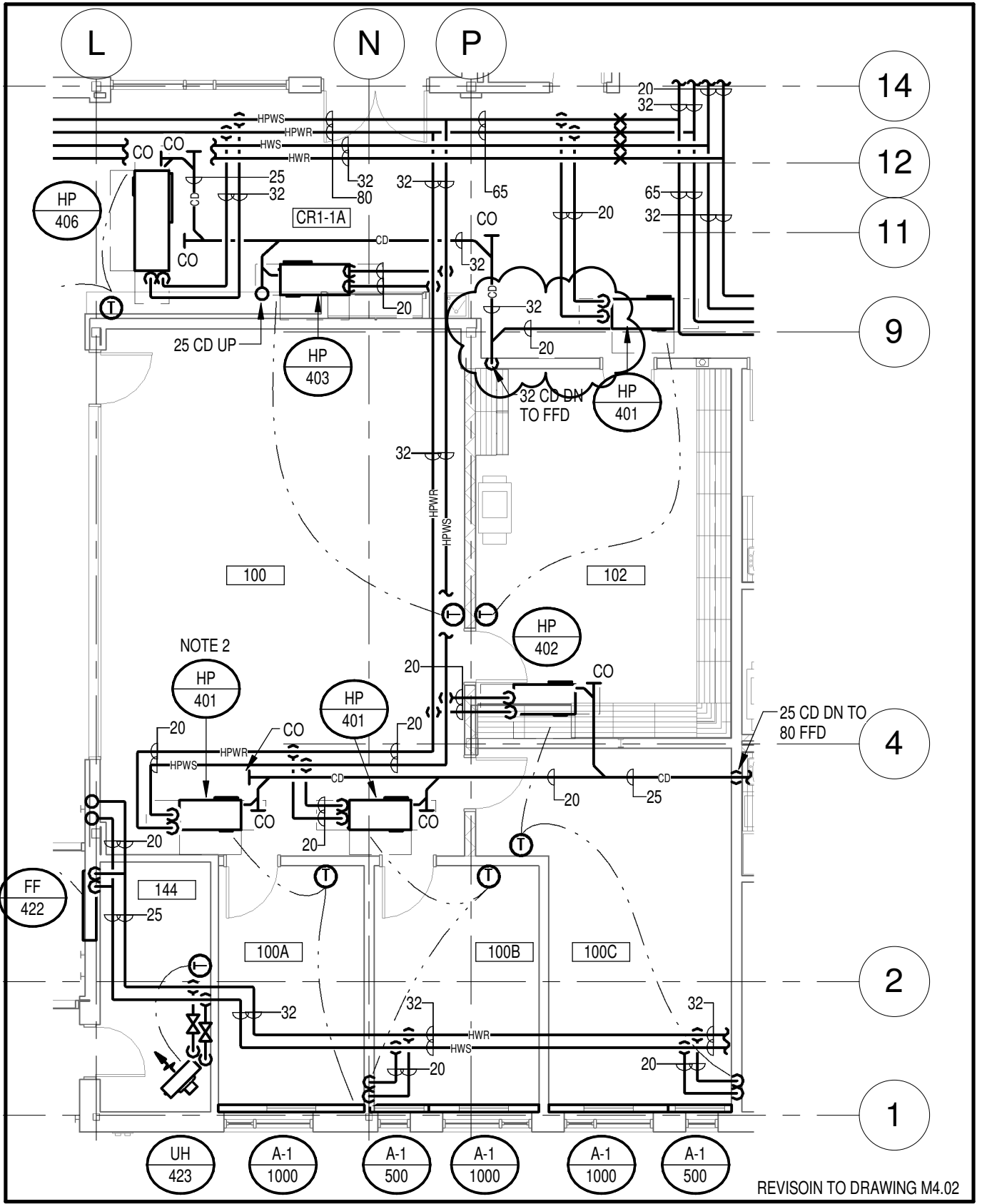
REVISION TO DRAWING M2.03 & M2.05

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CONSULTING ENGINEERS
369 YORK ST SUITE 2B, LONDON ON, CANADA N6B 3R4
P: 519-679-8660 F: 519-679-2145 chorley.com

Title	PARTIAL GROUND AND SECOND NORTH FLOOR PLANS - PLUMBING REVISION	
	Project	
NORTH CHATHAM CATHOLIC ELEMENTARY SCHOOL ST. CLAIR CATHOLIC DISTRICT SCHOOL BOARD 801 McNAUGHTON AVE. W, CHATHAM, ONTARIO		

Drawn	MNR	Date	05/25/18
Checked	MJM	Project No.	8370
Approved	MJM	Drawing No.	MR-2
Scale	AS NOTED		

SHEET NAME: MR-3 PARTIAL GROUND FLOOR PLAN - SOUTH HEATING REVISION
 DATE PLOTTED: 2018-05-30 12:58:02 PM



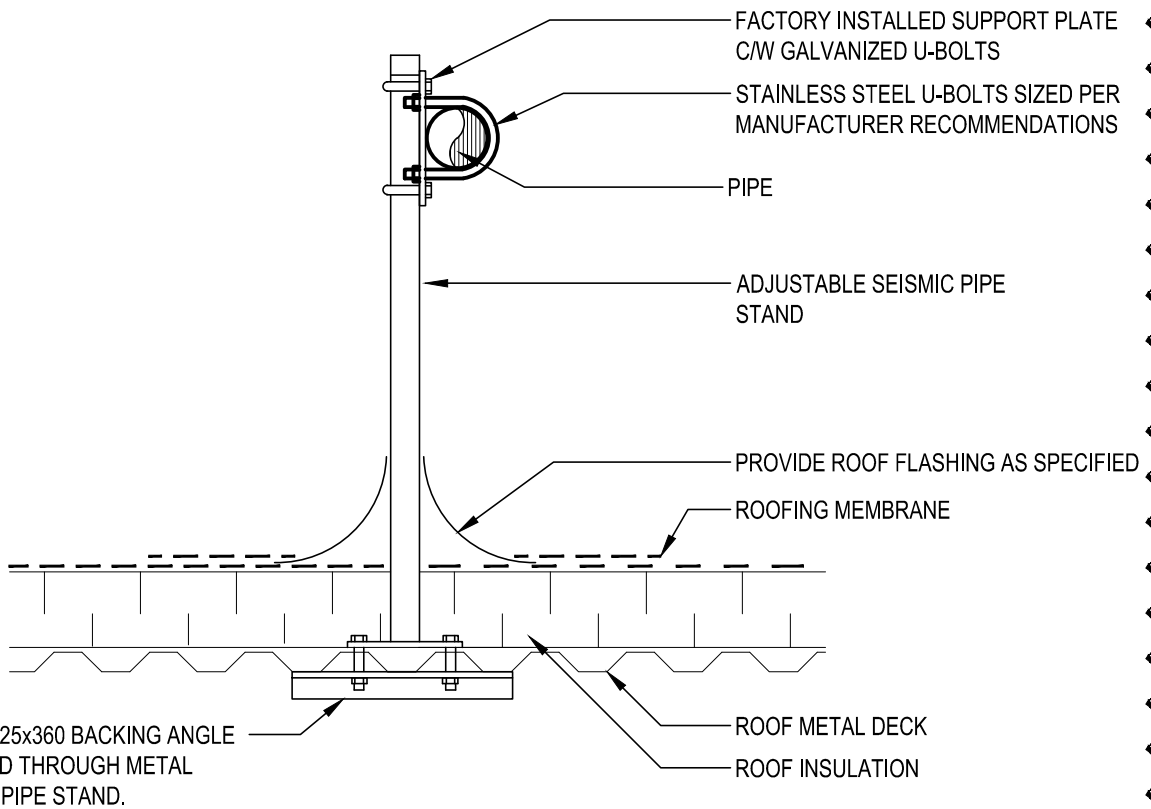
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Title: PARTIAL GROUND FLOOR PLAN - SOUTH HEATING REVISION
 Project: NORTH CHATHAM CATHOLIC ELEMENTARY SCHOOL ST. CLAIR CATHOLIC DISTRICT SCHOOL BOARD
 801 McNAUGHTON AVE. W. CHATHAM, ONTARIO

Drawn	BZT	Date	04/10/15
Checked	MJM	Project No.	8370
Approved	MJM	Drawing No.	MR-3
Scale	1:100		

REVISION TO DRAWING M4.02



SEISMIC ROOFTOP PIPE SUPPORT DETAIL

N.T.S.

NOTE:

1. PROVIDE ROOFTOP SUPPORT FOR GAS PIPING AT EACH CHANGE IN DIRECTION AND ON MAX 3M CENTRES.
2. PROVIDE HEIGHT EXTENSION, AND SECURING BRACKET ACCESSORIES AS REQUIRED TO SUIT INSTALLATION.

REVISION TO DRAWING M5.05

FILE NAME: 8370RM004.DWG
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Title	PIPE SUPPORT DETAIL REVISION
Project	NEW NORTH CHATHAM ELEMENTARY SCHOOL ST CLAIR CATHOLIC DISTRICT SCHOOL BOARD CHATHAM ONTARIO

Drawn	BZT	Date	2015-05-16
Checked	JDF	Project No.	8370
Approved	JDF	Drawing No.	MR-4
Scale	N.T.S.		

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369 YORK ST., SUITE 2B 250 CITY CENTRE AVE., SUITE 403
 LONDON ON, N6B 3R4 OTTAWA ON, K1R 6K7

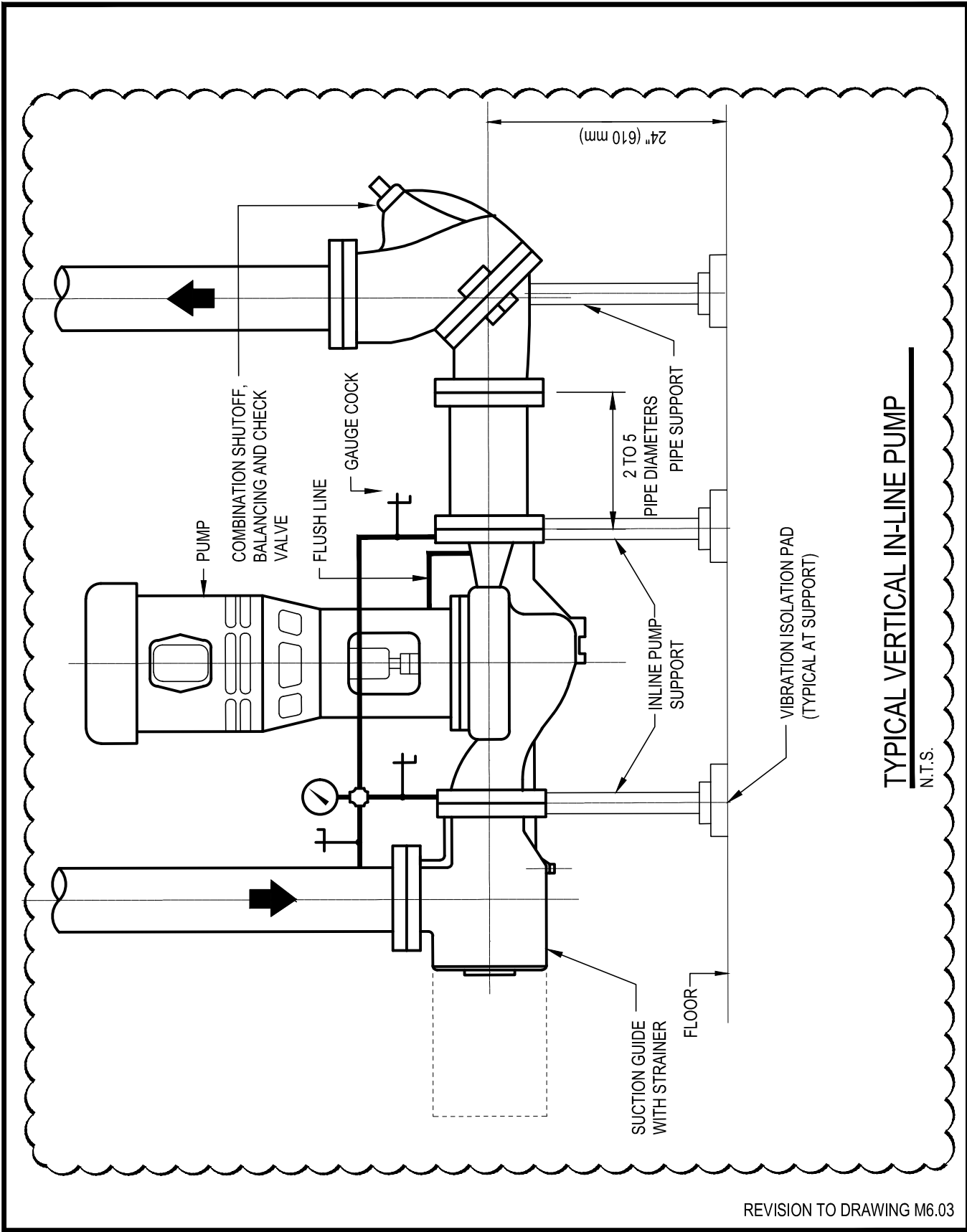
Title
 TYPICAL IN-LINE PUMP DETAIL
 REVISION

Project
 NORTH CHATHAM CATHOLIC ELEMENTARY SCHOOL
 ST. CLAIR CATHOLIC DISTRICT SCHOOL BOARD
 801 McNOUGHTON AVE. W, CHATHAM ONTARIO

Drawn	BZT
Checked	MJM
Approved	MJM
Scale	1:50

Date	28-05-2018
Project No.	8370
Drawing No.	MR-5

REVISION TO DRAWING M6.03



TYPICAL VERTICAL IN-LINE PUMP

N.T.S.