Montague Consolidated School

PEI Department of Transportation & Infrastructure

622 Princess Drive
Montague, PE
C0A 1R0

DTI Project No.: 370-20030

PRELIMINARY ONLY NOT FOR CONSTRUCTION

CONTRACT #3
SPRINKLER

C#3 ARCHITECTURAL

A3-001 Context Plan & Project Info
A3-100 Phasing Plan - Lower Level - Existing Layout
A3-101 Phasing Plan - Lower Level - Existing Layout
A3-102 Phasing Plan - Upper Level - Existing Layout
A3-103 Phasing Plan - Upper Level - Existing Layout
A3-104 Phasing Plan - Lower Level - Approximate Final Layout
A3-105 Phasing Plan - Lower Level - Approximate Final Layout
A3-106 Phasing Plan - Upper Level - Approximate Final Layout
A3-107 Phasing Plan - Upper Level - Approximate Final Layout

C#3 MECHANICAL

M3-400 Fire Suppression - Ground Level Plan
M3-401 Fire Suppression - Upper Level Plan
M3-402 Fire Suppression - Gymnasium Plans, Schedules, Schematics and Details

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ARCHITECTS ASSOCIATION 19-12 CERTIFICATE of PRACTICE Scott Daniel MacNeill Coles Associates Ltd. AAPEI OF PRINCE EDWARD ISLAND
MAY 6/21
#201104.

Client
PEI Department of Transportation & Infrastructure

Project Title
Montague Consolidated School
622 Princess Drive
Montague, PE
C0A 1R0

DTI Project No.: 370-20030

Sheet Title
Contract #3 Cover Page

No.	Description	Date
0	Issued for Tender	2021-05-06

Date: May 6, 2021
Drn By: JDA
Chk By:: SDM
Revision 0
Project Number: 201104
Drawing Number: A3-000

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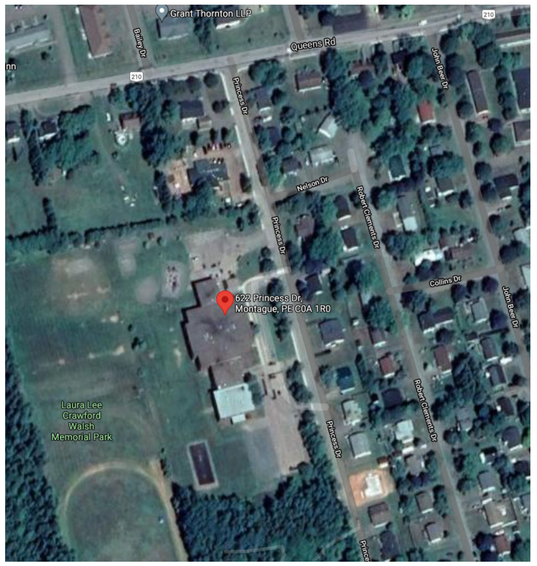


Context Plan

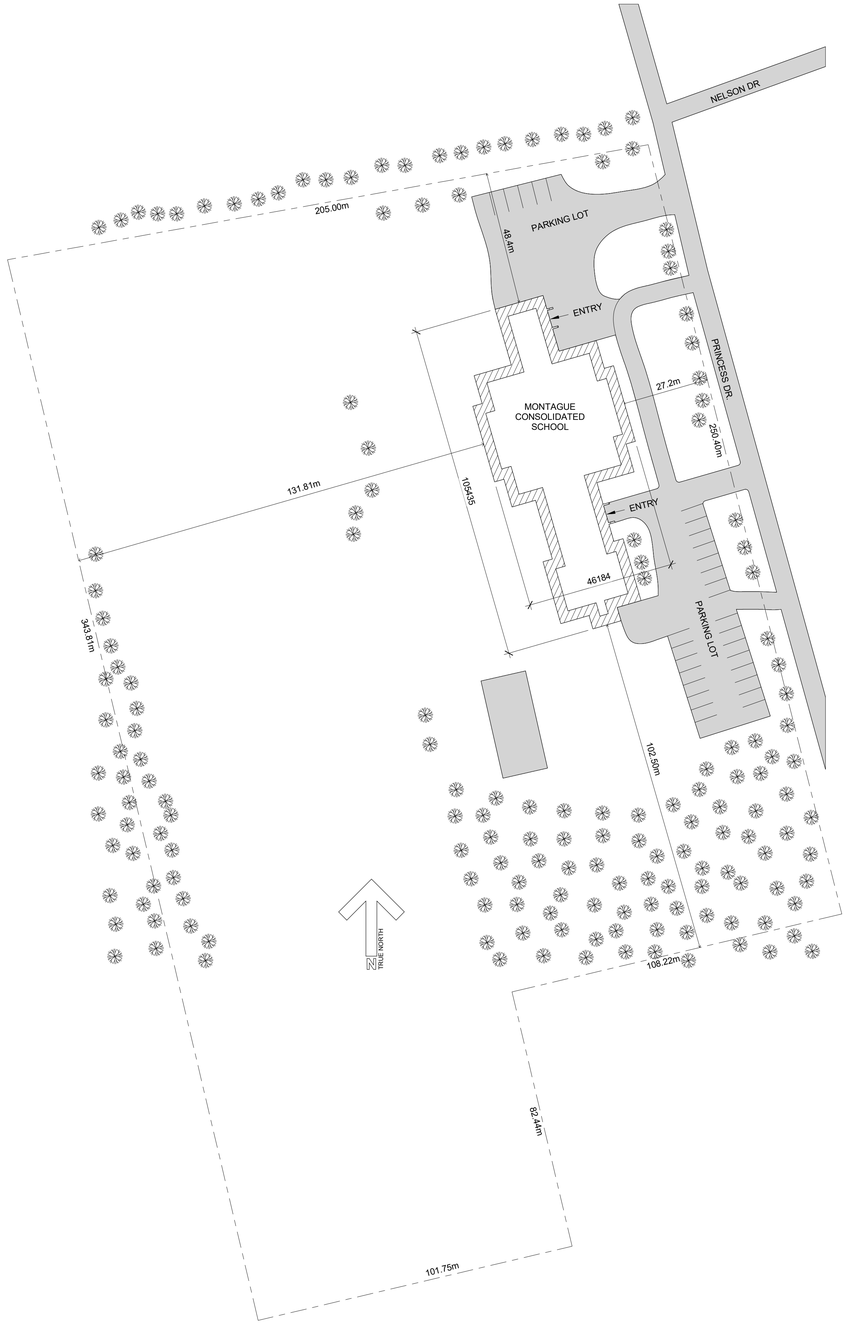
1 : 2000

PROJECT INFORMATION:

ADDRESS: 622 PRINCESS DRIVE
MUNICIPALITY: TOWN OF THREE RIVERS
ZONING: G1 GOVERNMENT AND INSTITUTIONAL

GROSS AREA LEVEL 1: 3134m²
GROSS AREA LEVEL 2: 2558m²

TOTAL: 5692m²



Site Plan

1 : 800

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MAY 6/21

Client
PEI Department of Transportation & Infrastructure

Project Title
Montague Consolidated School

622 Princess Drive
Montague, PE
C0A 1R0

DTI Project No.: 370-20030

Sheet Title
Context Plan & Project Info

No.	Description	Date
0	Issued for Tender	2021-05-06

Date: May 6, 2021
Drn By: JDA
Chk By: SDM
Revision 0
Project Number: 201104
Drawing Number: A3-001

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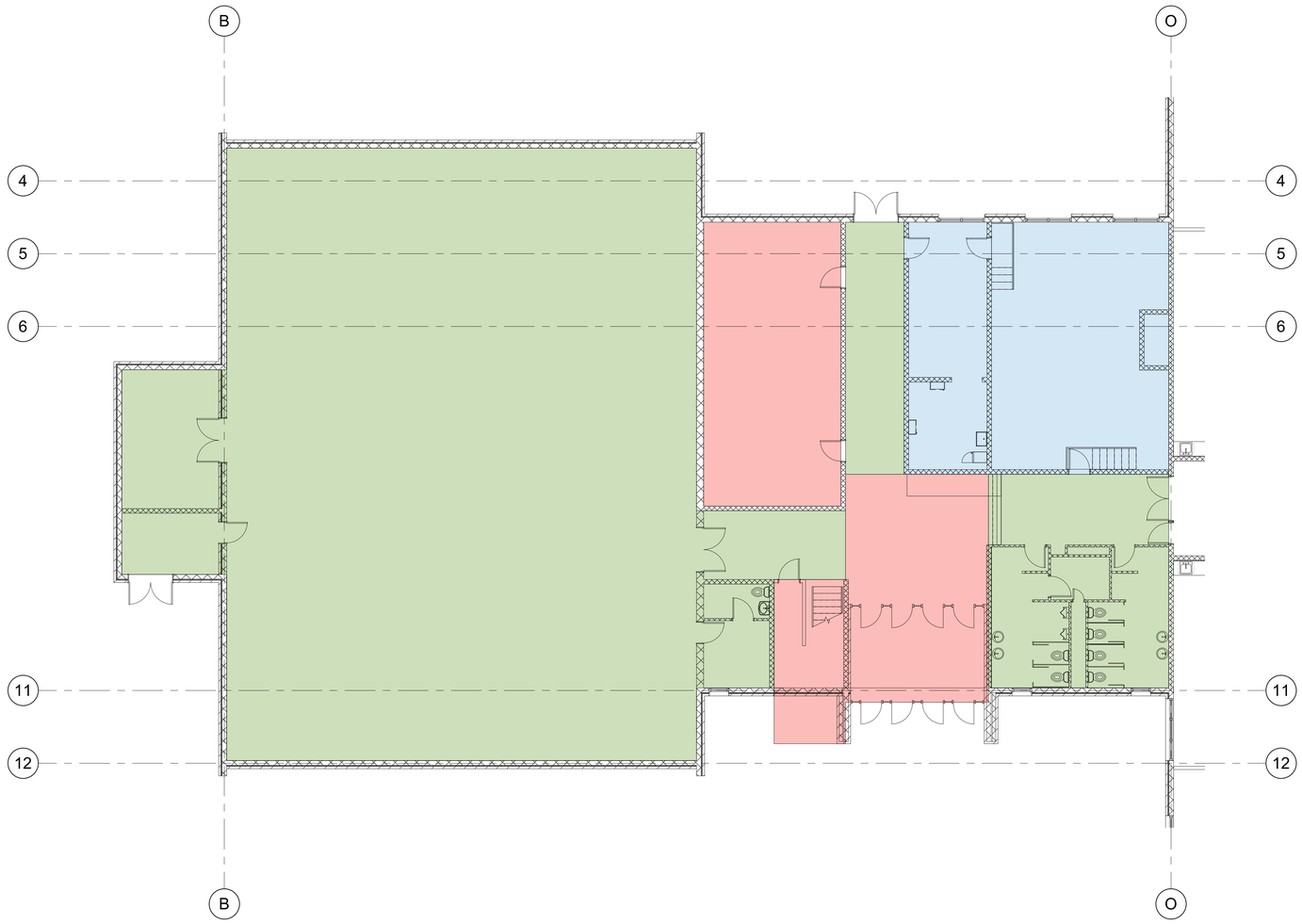
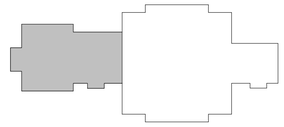


1 / A3-100 PHASING PLAN - LOWER LEVEL - PARTIAL
1 : 100



KEY PLAN

SCOPE PER YEAR LEGEND:

- YEAR 1
- YEAR 2
- YEAR 3

PROJECT NORTH

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MAY 6/21

Client
PEI Department of Transportation & Infrastructure

Project Title
Montague Consolidated School

622 Princess Drive
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C0A 1R0

DTI Project No.: 370-20030

Sheet Title
Phasing Plan - Lower Level - Existing Layout

No.	Description	Date
0	Issued for Tender	2021-05-06

Date: May 6, 2021
Drn By: JDA
Chk By: SDM
Revision: 0
Project Number: 201104
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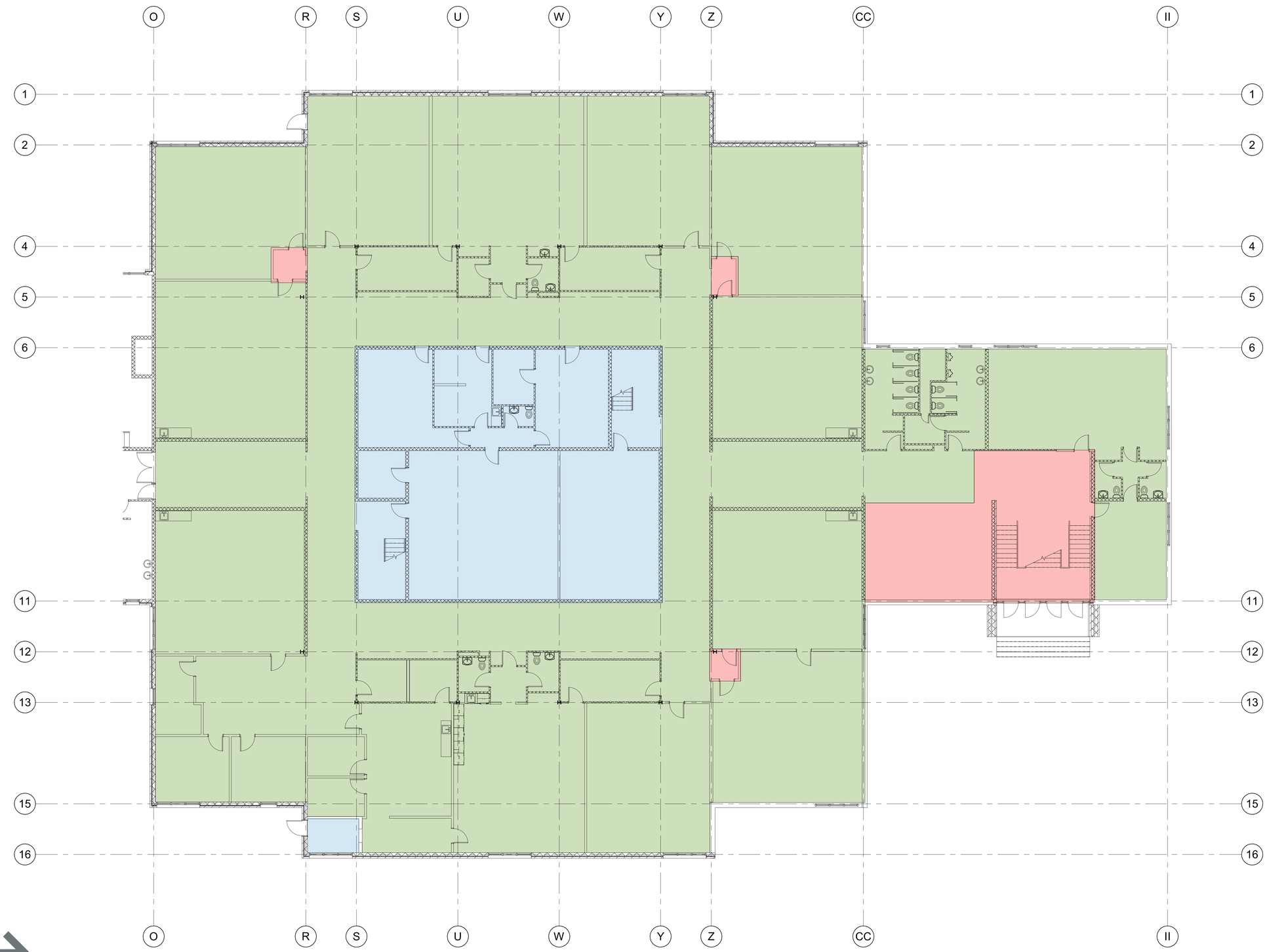

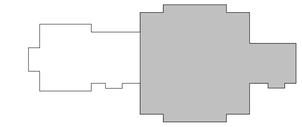

KEY PLAN

SCOPE PER YEAR LEGEND:

- YEAR 1
- YEAR 2
- YEAR 3

PROJECT NORTH

1 / A3-101 PHASING PLAN - LOWER LEVEL - PARTIAL
1 : 100

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Client
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Montague Consolidated School

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DTI Project No.: 370-20030

Sheet Title
Phasing Plan - Lower Level - Existing Layout

No.	Description	Date
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Date: May 6, 2021
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Revision: 0
Project Number: 201104
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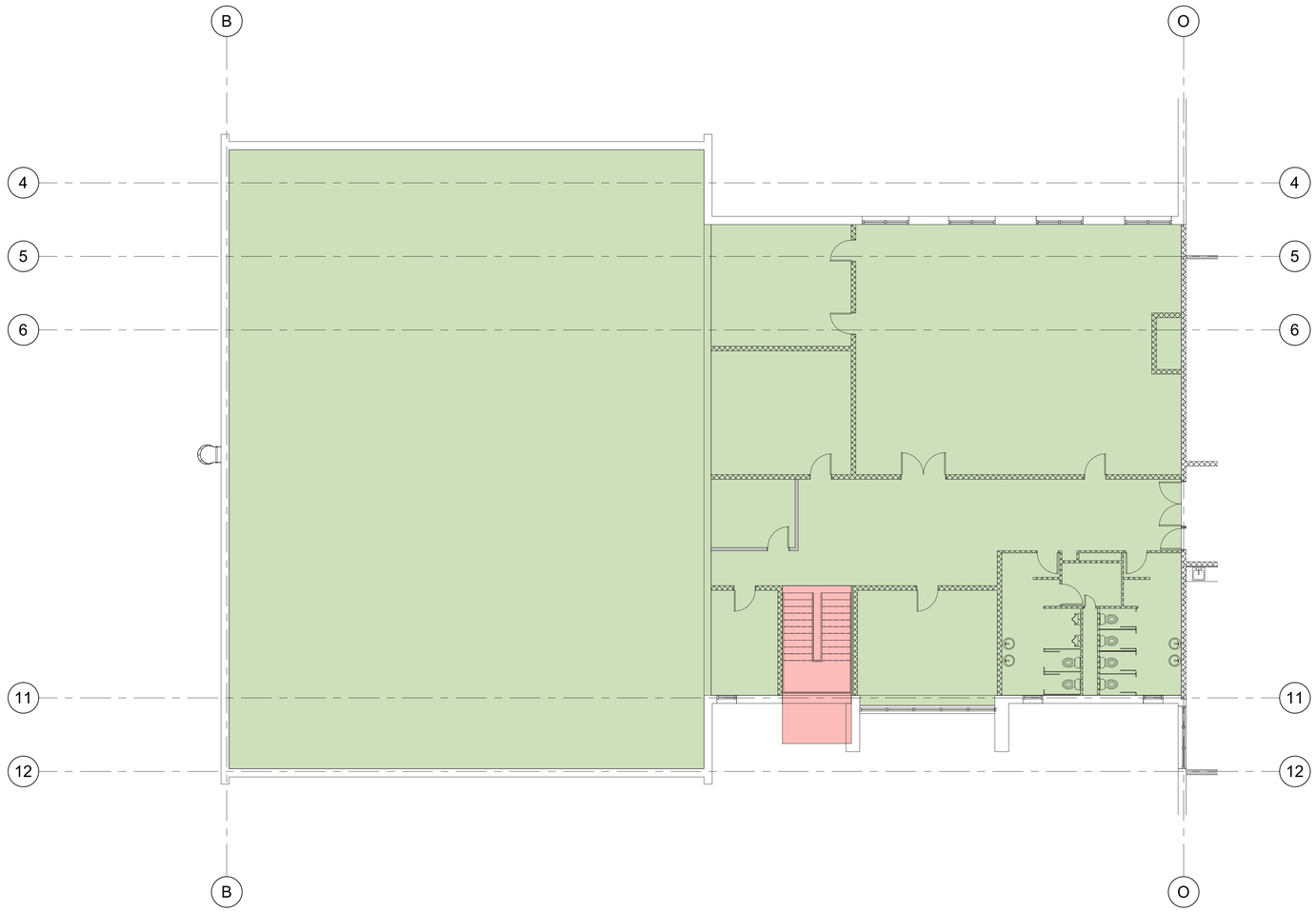
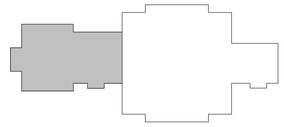


1 A3-102 PHASING PLAN - UPPER LEVEL - PARTIAL
1 : 100



KEY PLAN

SCOPE PER YEAR LEGEND:

- YEAR 1
- YEAR 2
- YEAR 3

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DTI Project No.: 370-20030

Sheet Title
Phasing Plan - Upper Level - Existing Layout

No.	Description	Date
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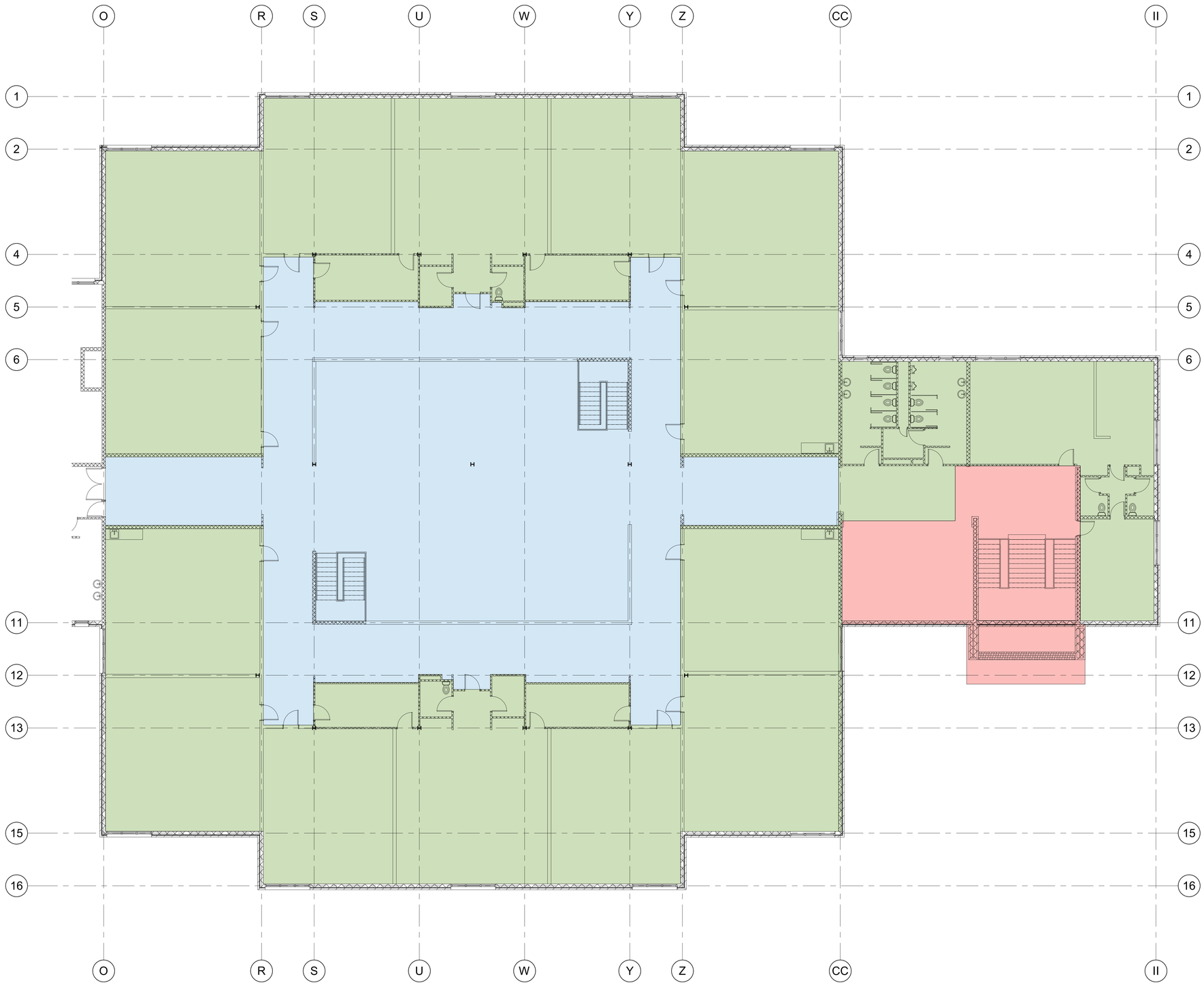

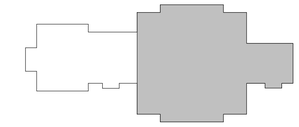

KEY PLAN

SCOPE PER YEAR LEGEND:

- YEAR 1
- YEAR 2
- YEAR 3

PROJECT NORTH

1 / A3-103 PHASING PLAN - UPPER LEVEL - PARTIAL

1 : 100

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Sheet Title
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No.	Description	Date
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Chk By: Checker
Revision: 0
Project Number: 201104
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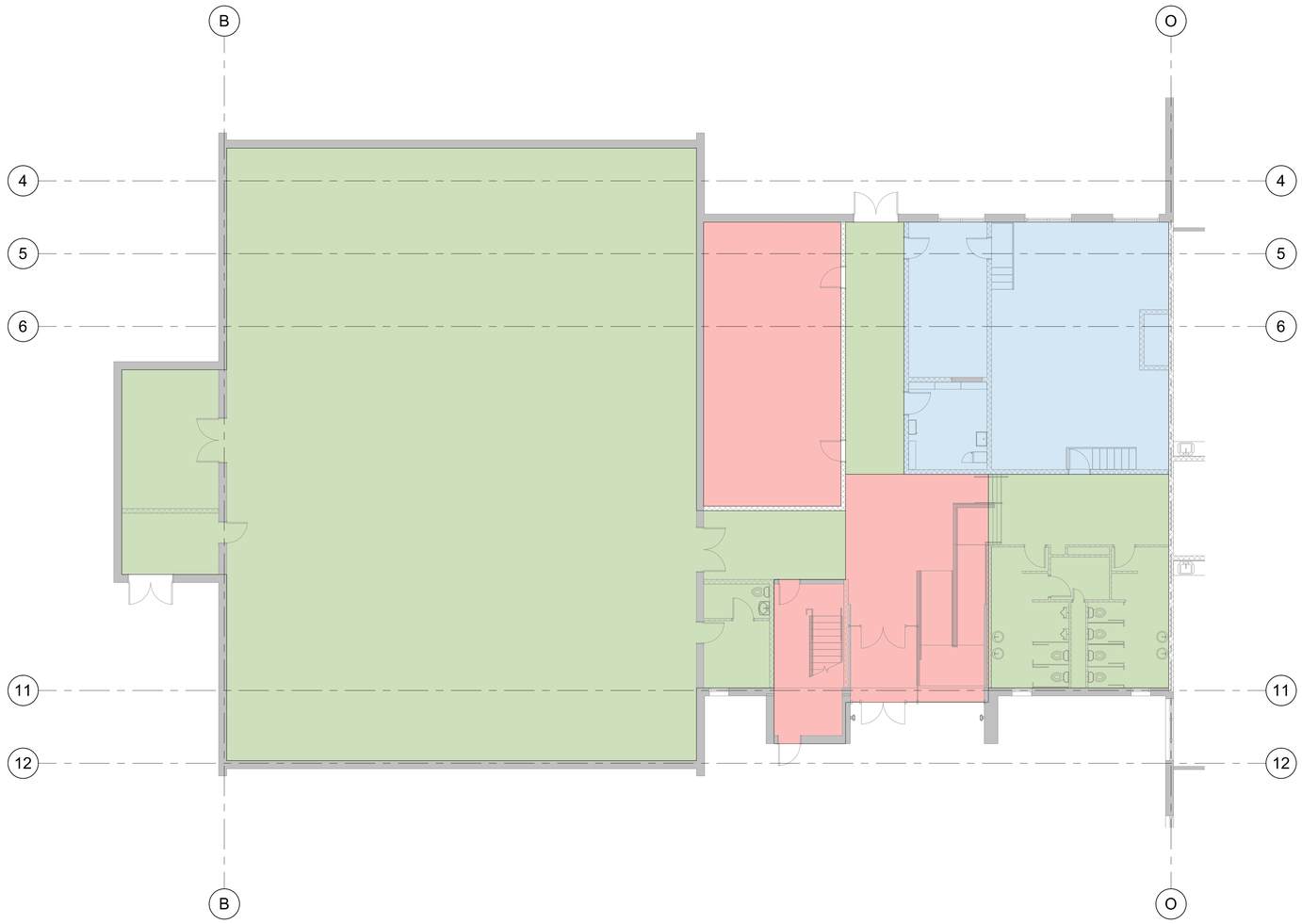
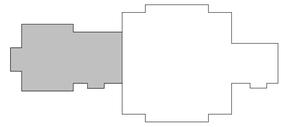


1 A3-104 PHASING PLAN - LOWER LEVEL - PARTIAL
1 : 100



KEY PLAN

SCOPE PER YEAR LEGEND:

- YEAR 1
- YEAR 2
- YEAR 3

N
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Client
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Project Title
Montague Consolidated School

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C0A 1R0

DTI Project No.: 370-20030

Sheet Title
Phasing Plan - Lower Level - Approximate Final Layout

No.	Description	Date
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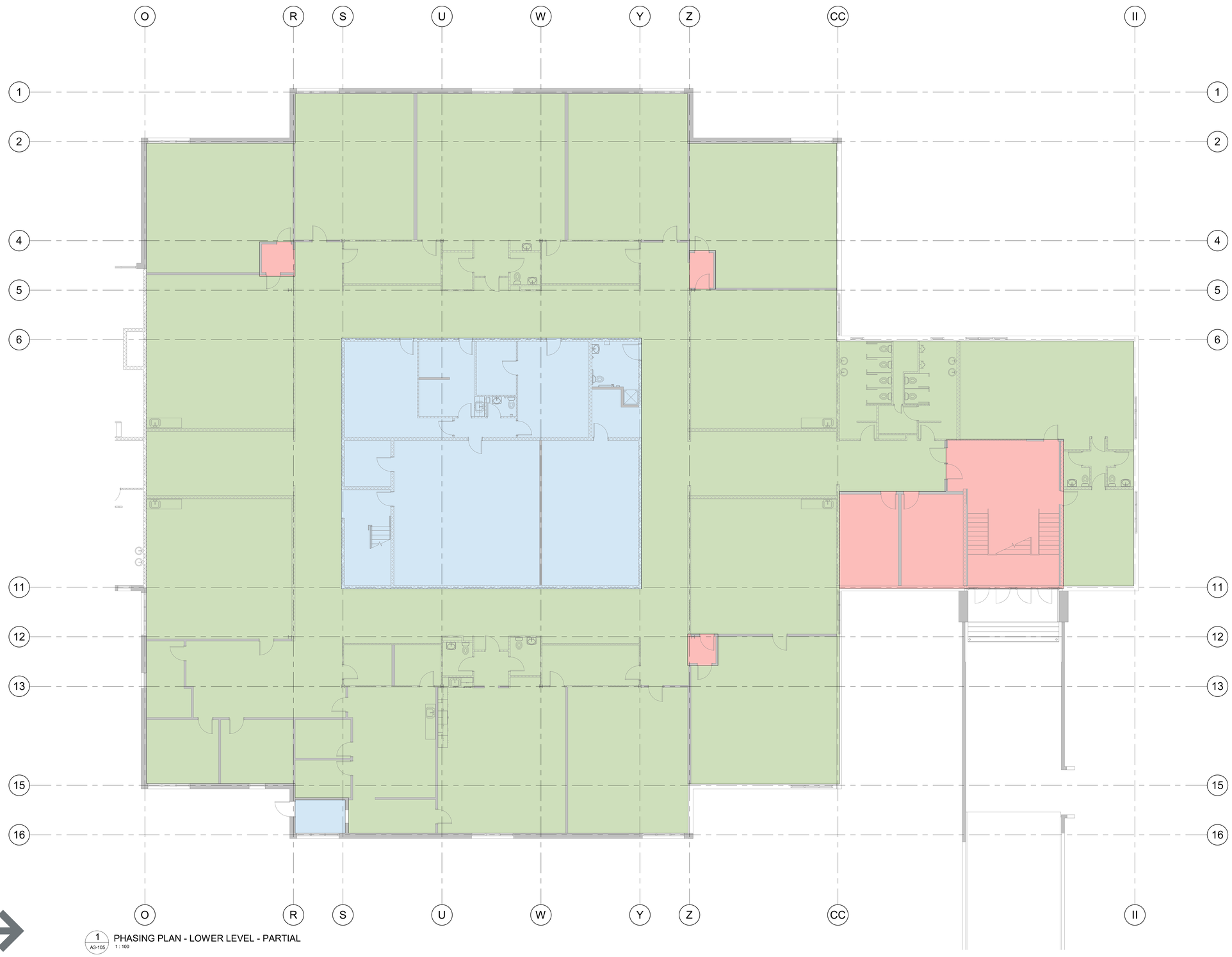

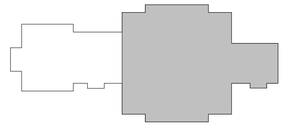

KEY PLAN

SCOPE PER YEAR LEGEND:

- YEAR 1
- YEAR 2
- YEAR 3

1 / A3-105 PHASING PLAN - LOWER LEVEL - PARTIAL
1 : 100

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MAY 6/21

Client
PEI Department of Transportation & Infrastructure

Project Title
Montague Consolidated School

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C0A 1R0

DTI Project No.: 370-20030

Sheet Title
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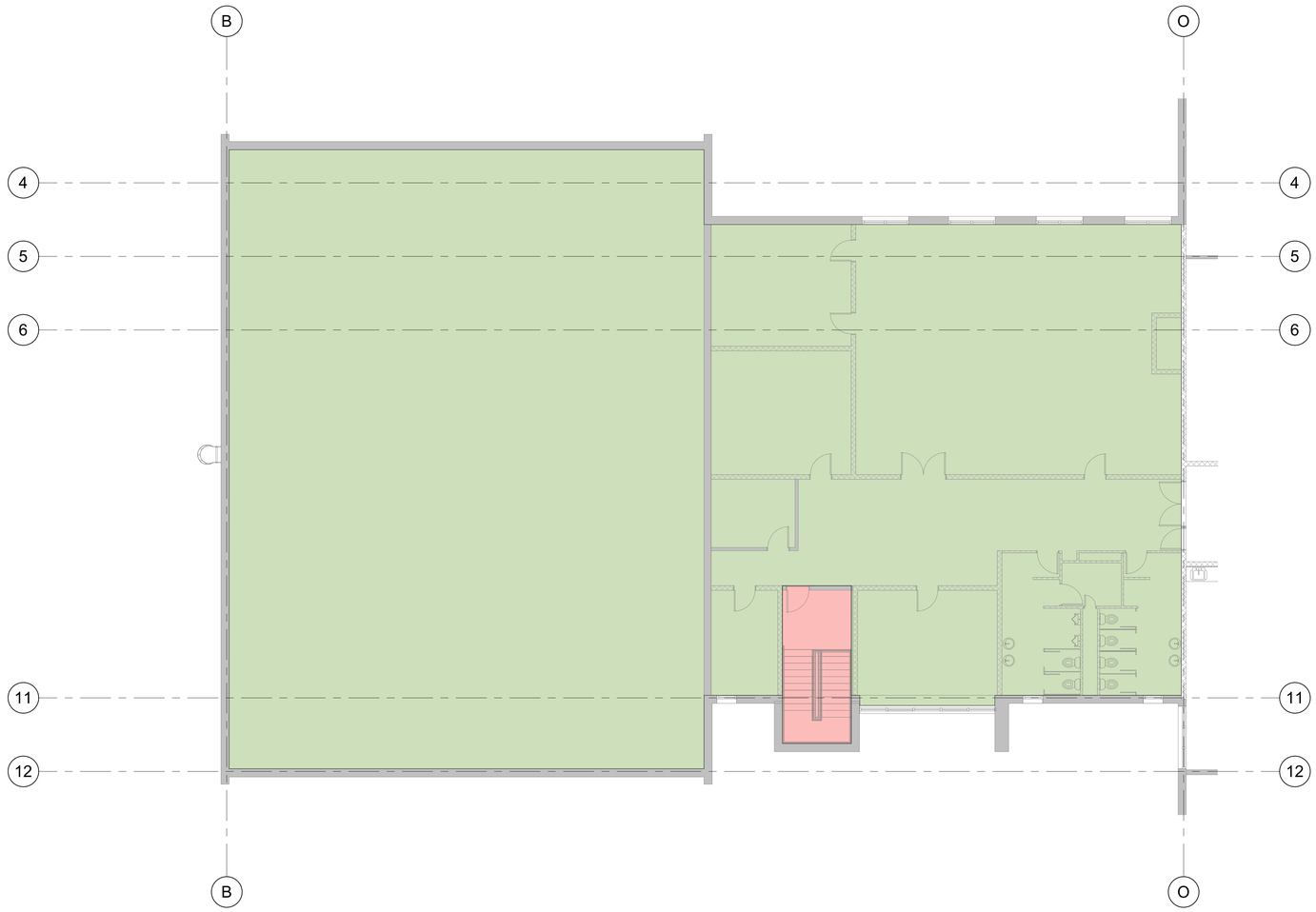
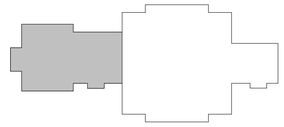


1 A3-106 PHASING PLAN - UPPER LEVEL - PARTIAL
1 : 100



KEY PLAN

SCOPE PER YEAR LEGEND:

- YEAR 1
- YEAR 2
- YEAR 3

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MAY 6/21

Client
PEI Department of Transportation & Infrastructure

Project Title
Montague Consolidated School

622 Princess Drive
Montague, PE
C0A 1R0

DTI Project No.: 370-20030

Sheet Title
Phasing Plan - Upper Level - Approximate Final Layout

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Date: May 6, 2021
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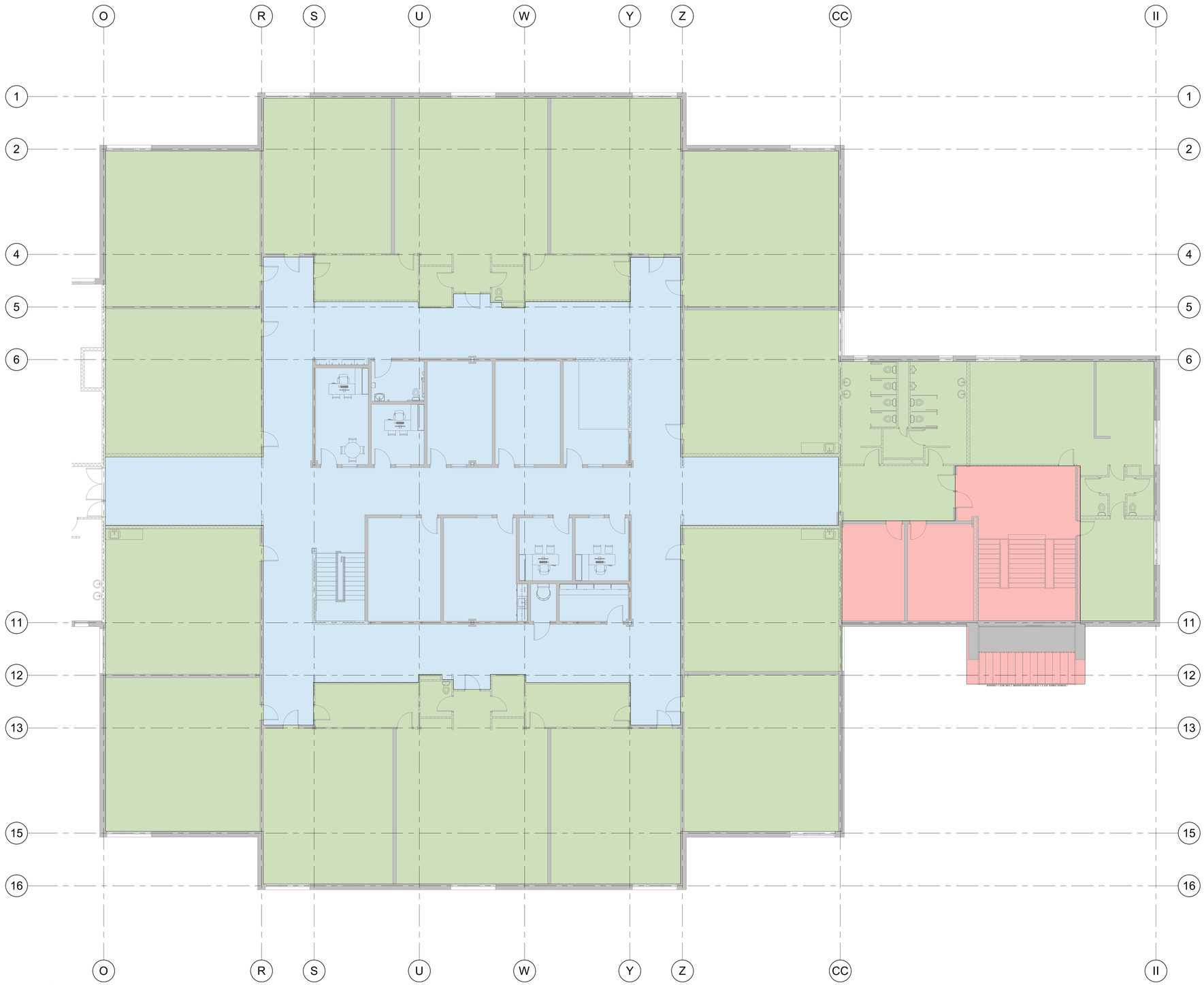

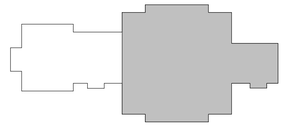

KEY PLAN

SCOPE PER YEAR LEGEND:

- YEAR 1
- YEAR 2
- YEAR 3

PROJECT NORTH

1 / A3-107 PHASING PLAN - UPPER LEVEL - PARTIAL

1 : 100

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Client
PEI Department of Transportation & Infrastructure

Project Title
Montague Consolidated School

622 Princess Drive
Montague, PE
C0A 1R0

DTI Project No.: 370-20030

Sheet Title
Phasing Plan - Upper Level - Approximate Final Layout

No.	Description	Date
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Date: May 6, 2021
Drn By: JDA
Chk By: SDM
Revision: 0
Project Number: 201104
Drawing Number: A3-107

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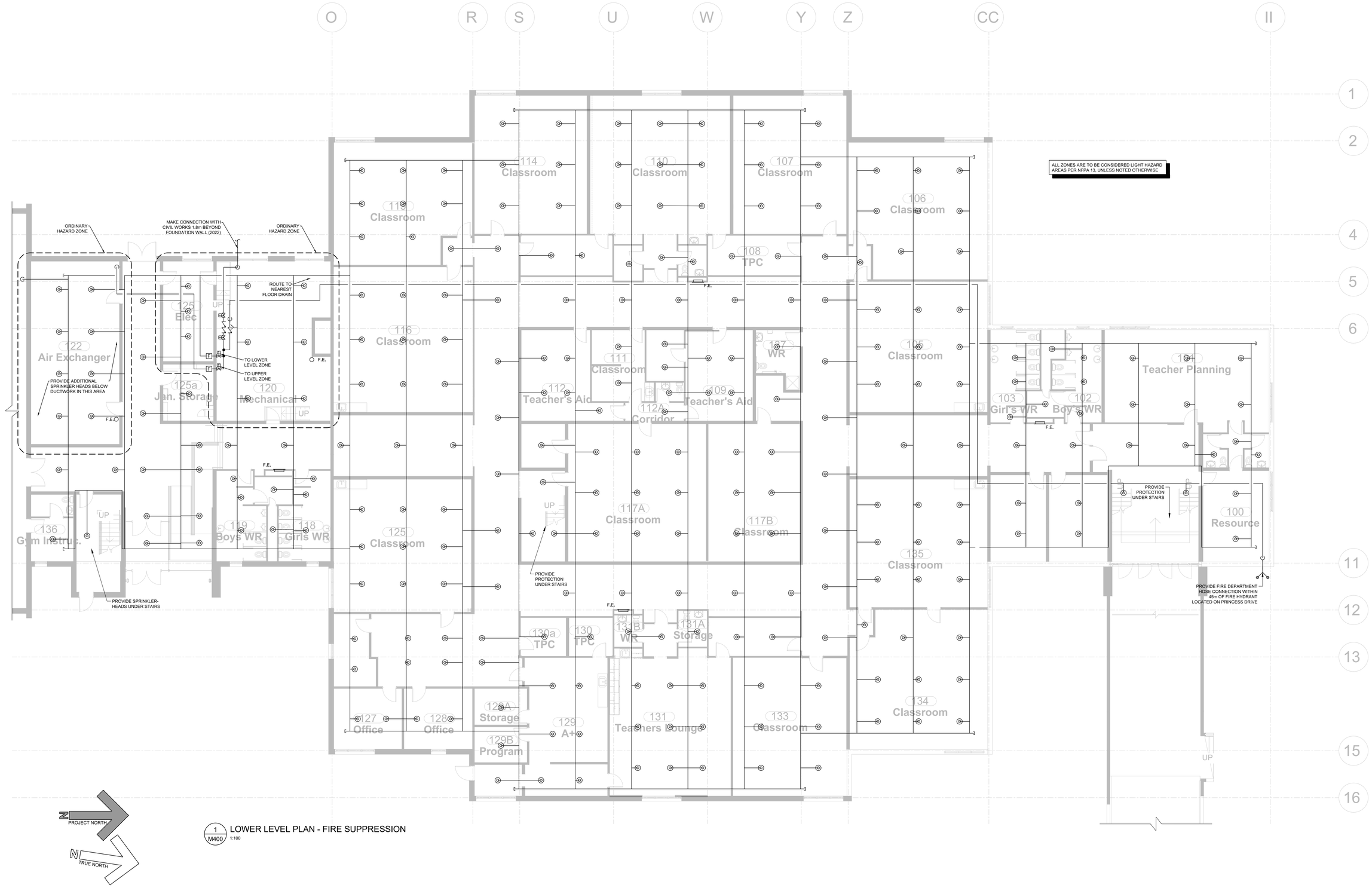

1 / M400 LOWER LEVEL PLAN - FIRE SUPPRESSION
1:100

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PROFESSIONAL ENGINEER
REGISTERED
THE ASSOCIATION OF PROFESSIONAL ENGINEERS OF THE PROVINCE OF PRINCE EDWARD ISLAND
Ryan L. Cooke
1476
6-May-2021
DATE
PROVINCE OF PRINCE EDWARD ISLAND

Client
Prince Edward Island
Department of Transportation,
and Infrastructure.

Project Title
Montague Consolidated School

622 Princess Dr.
Montague, PEI
C0A 1R0

DTI Project No.: 370-20030

Sheet Title
Fire Suppression:
Ground Level Plan

No.	Description	Date
0	Issued for Tender	2021-05-06

Date: 2021-05-06
Drn By: K.M.L., E.I.T
Chk By: R.L.C., P.Eng
Revision
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Drawing Number: M3-400

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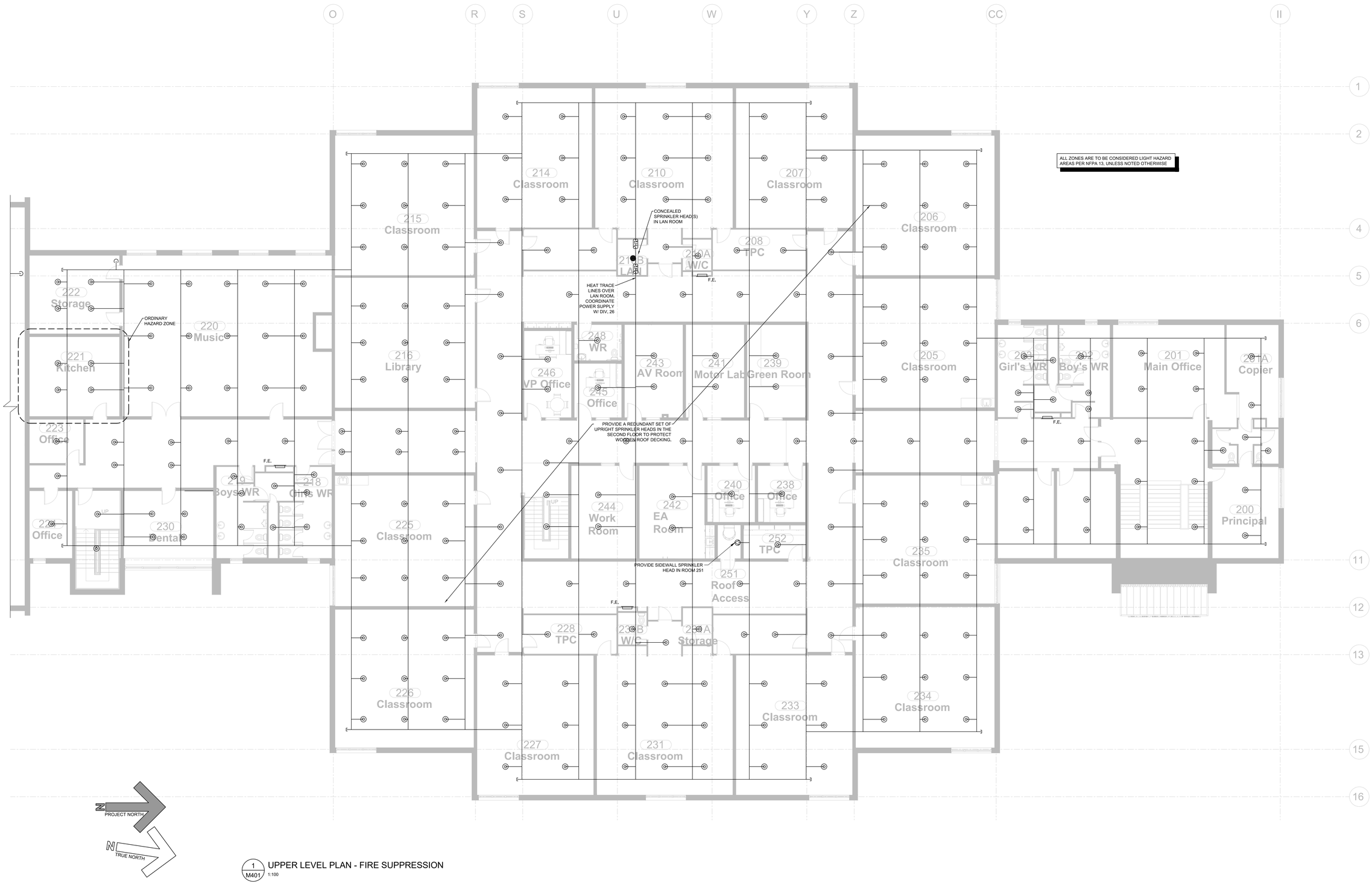

1 / M401 UPPER LEVEL PLAN - FIRE SUPPRESSION
1:100

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Charlottetown, PEI, Canada, C1A 1R6
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PROFESSIONAL ENGINEER — The Associates Of Professional Engineers Of Prince Edward Island — Ryan L. Cooke 1476 — 6-May-2021 — DATE — PROVINCE OF PRINCE EDWARD ISLAND

Client
Prince Edward Island
Department of Transportation,
and Infrastructure.

Project Title
Montague Consolidated School

622 Princess Dr.
Montague, PEI
C0A 1R0

DTI Project No.: 370-20030

Sheet Title
Fire Suppression:
Upper Level Plan

No.	Description	Date
0	Issued for Tender	2021-05-06

Date: 2021-05-06
Drn By: K.M.L., E.I.T
Chk By: R.L.C., P.Eng
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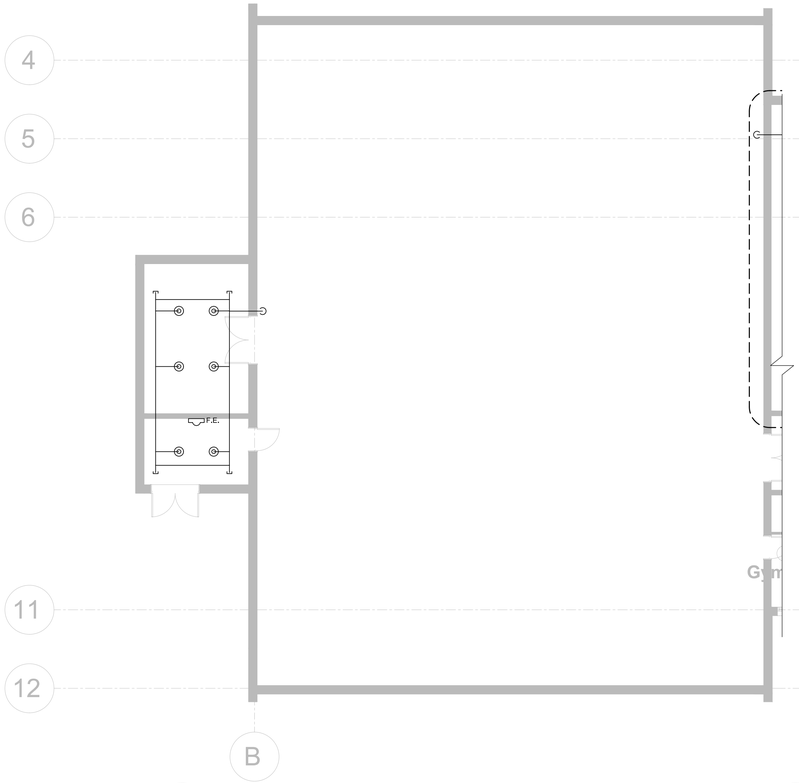
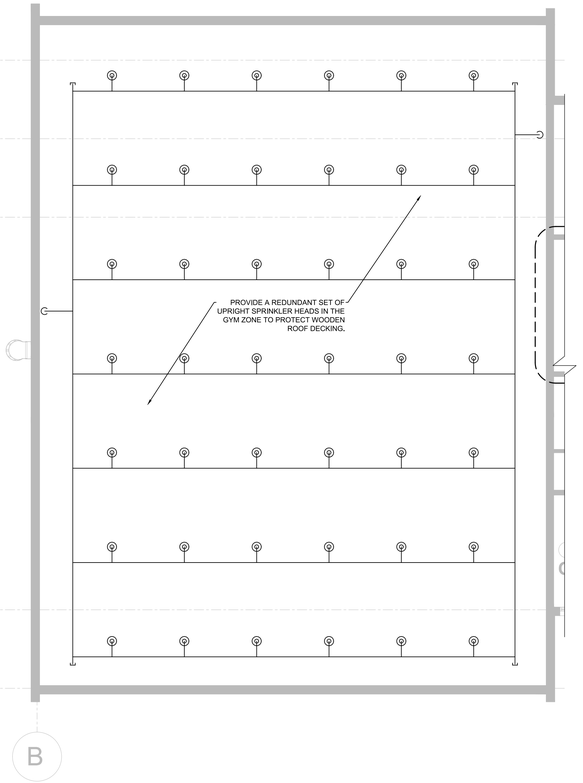
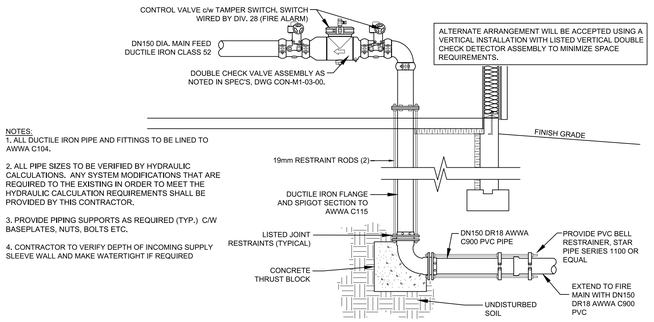


1 M402 GYM VESTIBULE AND EQUIPMENT ROOM FIRE SUPPRESSION PLAN
1:100



2 M402 GYM FIRE SUPPRESSION PLAN
1:100



NOTES:
1. ALL DUCTILE IRON PIPE AND FITTINGS TO BE LINED TO AWWA C104.

2. ALL PIPE SIZES TO BE VERIFIED BY HYDRAULIC CALCULATIONS. ANY SYSTEM MODIFICATIONS THAT ARE REQUIRED TO THE EXISTING IN ORDER TO MEET THE HYDRAULIC CALCULATION REQUIREMENTS SHALL BE PROVIDED BY THIS CONTRACTOR.

3. PROVIDE PIPING SUPPORTS AS REQUIRED (TYP.) C/W BASEPLATES, NUTS, BOLTS ETC.

4. CONTRACTOR TO VERIFY DEPTH OF INCOMING SUPPLY SLEEVE WALL AND MAKE WATERTIGHT IF REQUIRED

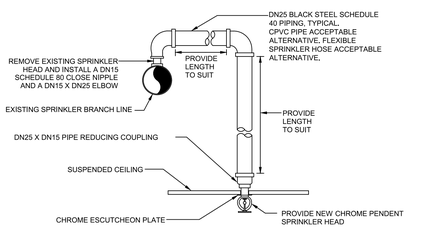
3 M402 SPRINKLER ENTRANCE/ GROUND TRANSITION
N.T.S

SPRINKLER NOTES:

1. CONTRACTOR IS RESPONSIBLE TO DESIGN THE SPRINKLER SYSTEM IN COORDINATION WITH OTHER TRADES. ENSURE ALL SPACES ARE PROTECTED AS PER CODE AND TO THE SATISFACTION OF THE AHJ
2. LOCATION OF SPRINKLER HEADS TO BE COORDINATED WITH REFLECTED CEILING PLAN. CONTRACTOR RESPONSIBLE TO REFER TO ARCHITECTURAL ROOM FINISH SCHEDULE FOR ROOM LAYOUTS, CEILING CONSTRUCTION, MOUNTING CEILING HEIGHTS, ETC. SEE ARCH.
3. SPRINKLER CONTRACTOR SHALL PREPARE SHOP DRAWINGS WITHIN 15 DAYS OF CONTRACT AWARD TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.
4. CONTRACTOR SHALL REVIEW THE ARCHITECTURAL SET OF CONSTRUCTION PLANS IN CONJUCTION WITH ANY SITE VISITS REQUIRED TO CONFIRM EXISTING CONDITIONS PRIOR TO TENDER CLOSE TO CONFIRM REQUIRED SPRINKLER HEAD LOCATIONS AND QUANTITY, RISER LOCATIONS, AND ALL REQUIRED WORK AS INTENDED BY THIS PLAN. NO COST INCREASE WILL BE GIVEN FOR FAILURE TO MAKE THIS REVIEW.
5. CONTRACTOR IS RESPONSIBLE FOR HYDRAULICALLY SIZING ALL SPRINKLER COMPONENTS AS REQUIRED BY AHJ.
6. ABOVE ALL ELSE, CONTRACTOR IS RESPONSIBLE FOR ALL WORK IN ORDER TO PROVIDE AND ENSURE THAT ALL AREAS ARE PROTECTED ACCORDING TO CODE. PROVIDE WRITTEN GUARANTEE FOR SAME AS REQUIRED BY A.H.J. PROVIDE STAMPED ENGINEERED DRAWINGS AND HYDRAULIC CALCULATIONS. SHOP DRAWINGS MUST BE APPROVED PRIOR TO COMMENCING WORK. CONSULTANT RESERVES THE RIGHT TO ACCEPT OR MODIFY THE SHOP DRAWINGS AT ANY TIME.
7. REFER TO ARCH. DRAWINGS FOR LOCATION OF ALL FIRE RATED WALLS, CEILING, AND FLOOR ASSEMBLIES. PROVIDE FIRE STOPPING AS REQUIRED BY N.B.C.
8. PROVIDE ANY REQUIRED FLOW SWITCHES AND ZONING AS REQUIRED BY CODES. PROVIDE ANY ELECTRICAL WORK REQUIRED TO POWER THESE ITEMS AND ANY OTHER WORK REQUIRED BY THIS CONTRACTOR. COORDINATE WITH G.C.
9. CONTRACTOR IS RESPONSIBLE FOR LOCATING HEADS IN NEW OR EXISTING AREAS AS REQUIRED BY CODES. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH G.C. FOR FINAL LOCATION OF ALL PIPING.
10. CONTRACTOR SHALL ENSURE PIPING IS NOT SUBJECTED TO FREEZING TEMPERATURES IN ANY LOCATION. IF FREEZING COULD OCCUR, PROVIDE ANTIFREEZING STRATEGY TO SATISFY CODES.
11. PROVIDE SEMI-RECESSED FIRE EXTINGUISHERS AT ALL EXITS PER NFPA 10. FINAL LOCATIONS TO BE CONFIRMED ON SITE.

FIRE PROTECTION LEGEND

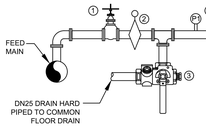
	PENDENT SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD
	SEMI-RECESSED SPRINKLER HEAD
	CONCEALED SPRINKLER HEAD
	UPRIGHT SIDEWALL SPRINKLER HEAD
	PENDANT SIDEWALL SPRINKLER HEAD
	HORIZONTAL SIDEWALL SPRINKLER HEAD
	SEMI-RECESSED SIDEWALL SPRINKLER HEAD
	CONTROL VALVE WITH TAMPER SWITCH
	CONTROL VALVE
	AUXILIARY DRAIN VALVE
	SIAMESE FIRE DEPARTMENT CONNECTION
F.E.	SEMI-RECESSED FIRE EXTINGUISHER
F.E.	FULLY RECESSED FIRE EXTINGUISHER
F.E.	FIRE EXTINGUISHER WITH WALL BRACKET
	FLUSHING CONNECTION
	PIPE RISER UP
	PIPE DOWN
	SPRINKLER PIPE BREAK
F	FLOW SWITCH
HT	HEAT TRACE



NOTES:
1. ADJUST SPRINKLER DROPS AS NECESSARY TO CLEAR OBSTRUCTIONS SUCH AS THE CEILING "T" BAR SUSPENSION SYSTEM, LIGHT FIXTURES, ETC. PROVIDE A PIPE HANGER IF THE HORIZONTAL OFFSET LENGTH EXCEEDS 24 INCHES.

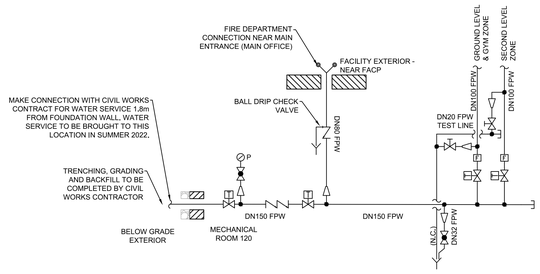
2. THIS SPRINKLER HEAD DROP IS APPLICABLE ONLY WHERE IT IS NOT NECESSARY TO RETAIN AN UPRIGHT SPRINKLER FOR PROTECTION OF COMBUSTIBLE CONSTRUCTION ABOVE THE CEILING.

4 M402 TYPICAL SPRINKLER HEAD DROP DETAIL
N.T.S

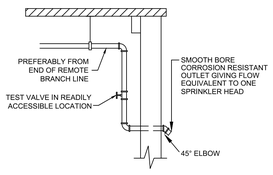


1. SYSTEM MAIN CONTROL VALVE, NORMALLY OPEN, C/W TAMPER SWITCH, SWITCH WIRED BY DIV. 28 (FIRE ALARM)
2. SYSTEM WATER FLOW DETECTOR SWITCH
3. ZONE TEST AND DRAIN VALVE, SEE SPEC.
4. WATER PRESSURE GAUGE

5 M402 TYPICAL ZONE ARRANGEMENT
N.T.S



6 M402 SPRINKLER ENTRANCE/ GROUND TRANSITION
N.T.S



7 M402 SPRINKLER TEST CONNECTION DETAIL
N.T.S

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Client
Prince Edward Island
Department of Transportation, and Infrastructure.

Project Title
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622 Princess Dr.
Montague, PEI
C0A 1R0

DTI Project No.: 370-20030

Sheet Title
Fire Suppression: Gymnasium Plans Schedules, Schematics, and Details

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0	Issued for Tender	2021-05-06

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Drn By: K.M.L., E.I.T
Chk By: R.L.C., P.Eng
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