Eliot River Elementary School

PEI Department of Transportation & Infrastructure

79 Hilltop Drive
Cornwall, PE
C0A 1H0

DTI Project No.: 170-20031

Contract #3
Sprinkler

C#3 ARCHITECTURAL

A3-100 First Floor Phasing Plan - Existing Layout
A3-101 Second Floor Phasing Plan - Existing Layout
A3-102 Third Floor Phasing Plan - Existing layout
A3-103 First Floor Phasing Plan - Approximate Final Layout
A3-104 Second Floor Phasing Plan - Approximate Final Layout
A3-105 Third Floor Phasing Plan - Approximate Final Layout

C#3 MECHANICAL

M3-400 Fire Suppression - First Floor Plan
M3-401 Fire Suppression - Second Floor Plan
M3-402 Fire Suppression - Third Floor Plan
M3-403 Fire Suppression - Details, Schedules, and Penthouse Plan

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ARCHITECTS ASSOCIATION 19-12 CERTIFICATE of PRACTICE Mark Daniel MacNeill Coles Associates Ltd. AAPEI OF PRINCE EDWARD ISLAND
MAY 6/21.
#201103

Client
PEI Department of Transportation & Infrastructure

Project Title
Eliot River Elementary School
79 Hilltop Drive
Cornwall, PE
C0A 1H0

DTI Project No.: 170-20031

Sheet Title
Contract #3 Cover Page

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

Date: May 2021
Drn By: J.L.A.
Chk By:: S.D.M.
Revision
Project Number: 201103
Drawing Number: A3-000

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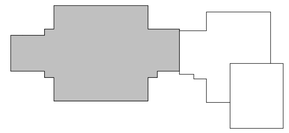

KEY PLAN

1 / A3-100 FIRST FLOOR PLAN
1 : 100

SCOPE PER YEAR LEGEND:

- YEAR 1
- YEAR 2
- YEAR 3
- NEW ADDITION

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#201103

Client
PEI Department of Transportation & Infrastructure

Project Title
Eliot River Elementary School

79 Hilltop Drive
Cornwall, PE
C0A 1H0

DTI Project No.: 170-20031

Sheet Title
First Floor Phasing Plan - Existing Layout

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

Date: May 2021
Drn By: J.L.A.
Chk By: S.D.M.
Revision
Project Number: 201103
Drawing Number: A3-100

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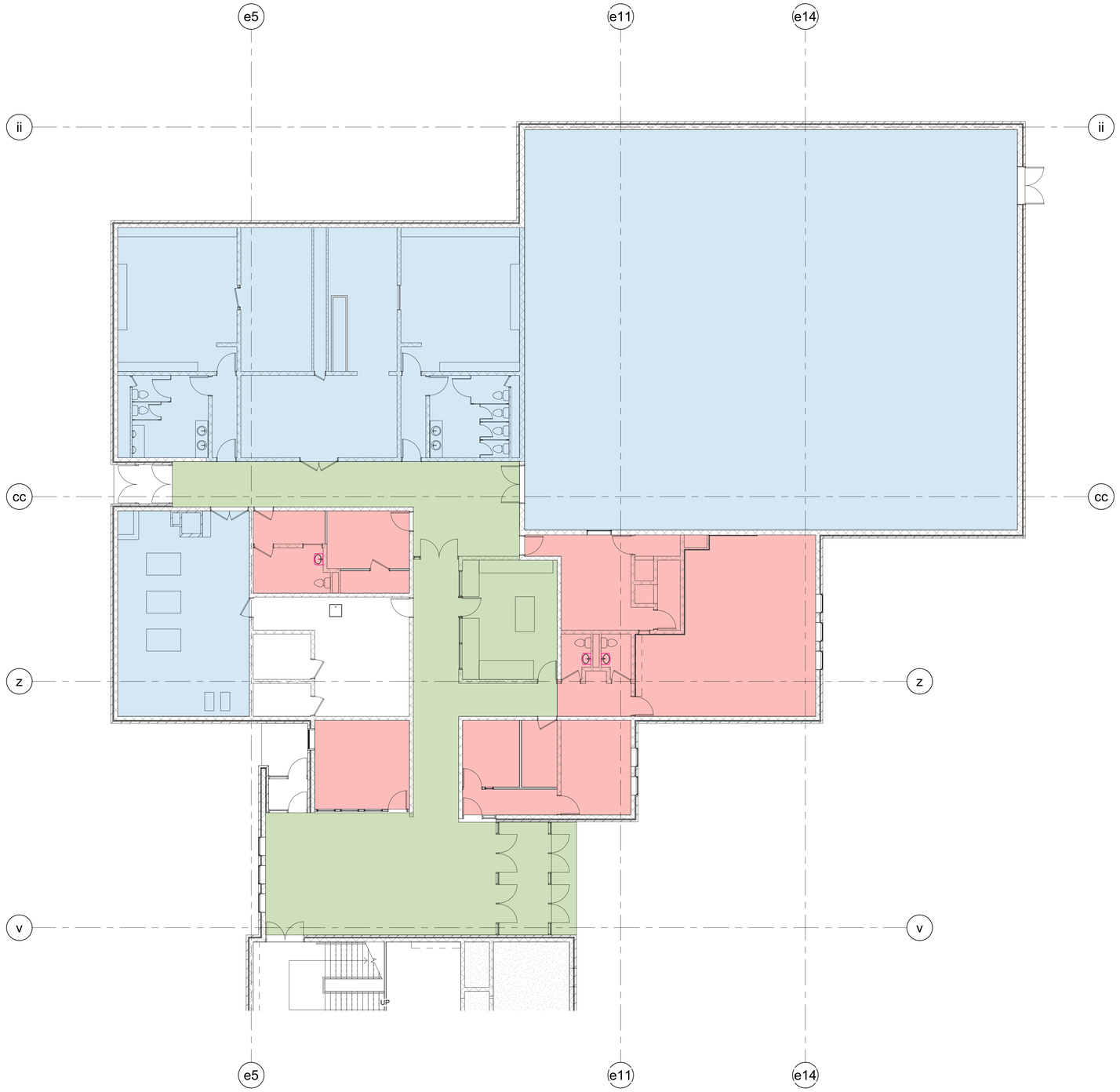
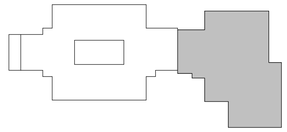


1 / A3-101 SECOND FLOOR PLAN
1 : 100



KEY PLAN

SCOPE PER YEAR LEGEND:

- YEAR 1
- YEAR 2
- YEAR 3
- NEW ADDITION

NOTE:

DRAWING SHOWN IS ROTATED 90 DEGREES COUNTER CLOCKWISE FROM KEY PLAN.

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Client
PEI Department of Transportation & Infrastructure

Project Title
Eliot River Elementary School

79 Hilltop Drive
Cornwall, PE
C0A 1H0

DTI Project No.: 170-20031

Sheet Title
Second Floor Phasing Plan - Existing Layout

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

Date: May 2021
Dm By: J.L.A.
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Project Number: 201103
Drawing Number: A3-101

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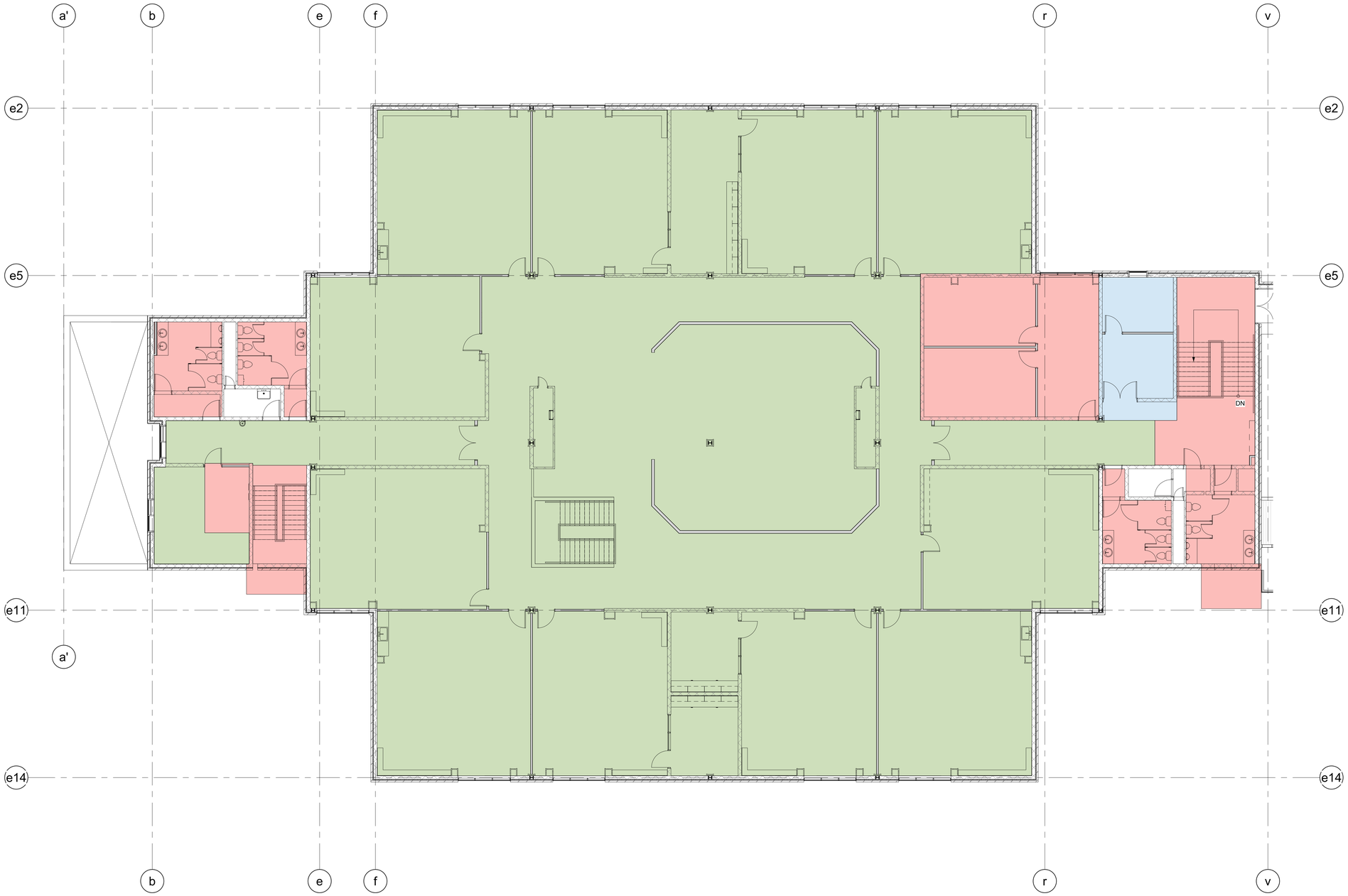

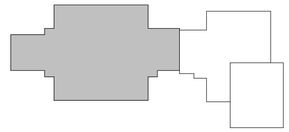

KEY PLAN

1 / A3-102 THIRD FLOOR PLAN
1 : 100

SCOPE PER YEAR LEGEND:

- YEAR 1
- YEAR 2
- YEAR 3
- NEW ADDITION

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Client
PEI Department of Transportation & Infrastructure

Project Title
Eliot River Elementary School

79 Hilltop Drive
Cornwall, PE
C0A 1H0

DTI Project No.: 170-20031

Sheet Title
Third Floor Phasing Plan - Existing layout

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

Date: May 2021
Dm By: J.L.A.
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Revision
Project Number: 201103
Drawing Number: A3-102

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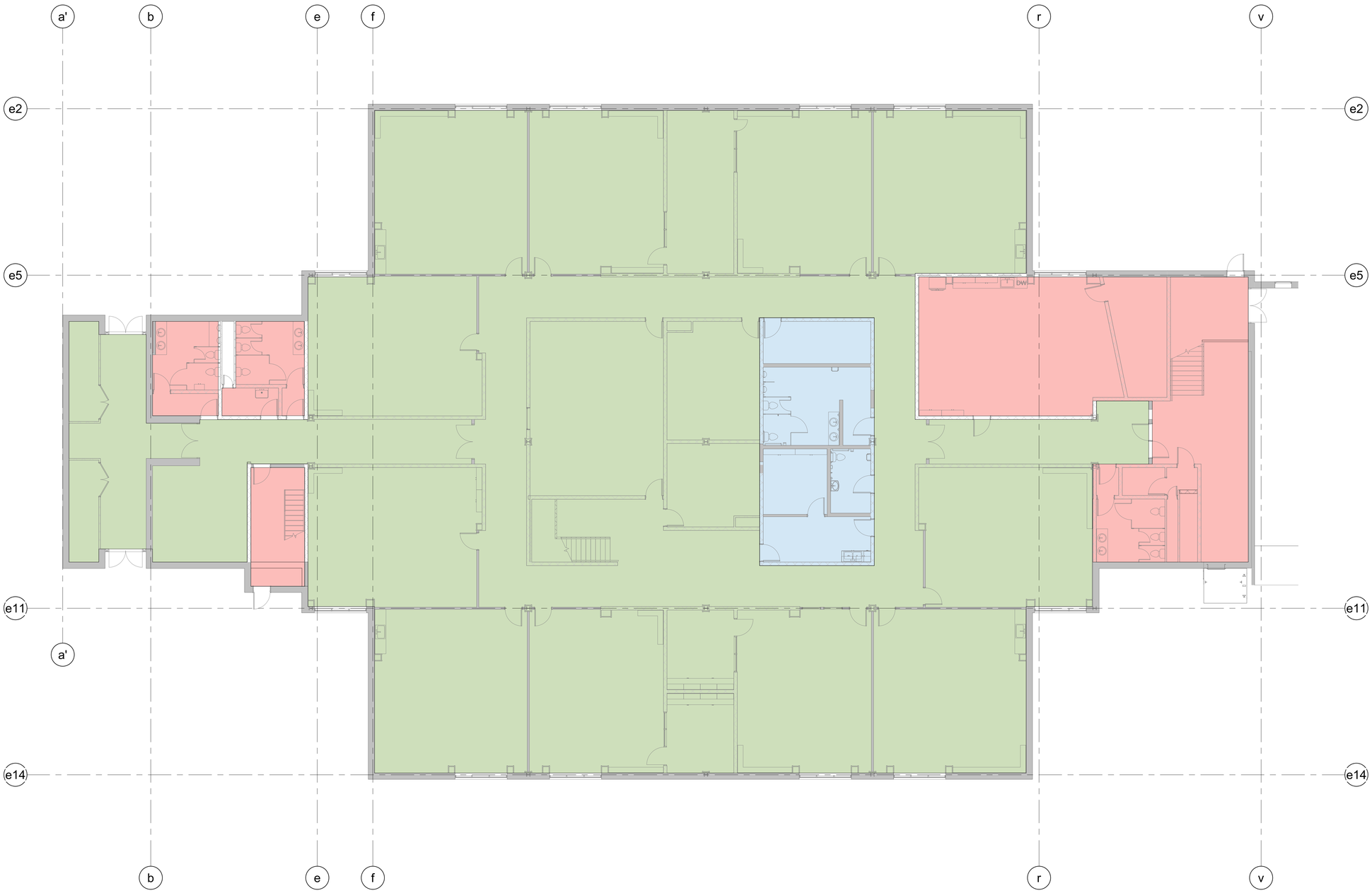

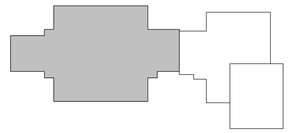

KEY PLAN

1 / A3-103 FIRST FLOOR PLAN
1 : 100

SCOPE PER YEAR LEGEND:

- YEAR 1
- YEAR 2
- YEAR 3
- NEW ADDITION

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#201103

Client
PEI Department of Transportation & Infrastructure

Project Title
Eliot River Elementary School

79 Hilltop Drive
Cornwall, PE
C0A 1H0

DTI Project No.: 170-20031

Sheet Title
First Floor Phasing Plan - Approximate Final Layout

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

Date: May 2021
Drn By: J.L.A.
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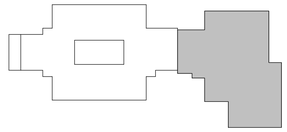
1 A3-104 SECOND FLOOR PLAN
1 : 100



KEY PLAN

SCOPE PER YEAR LEGEND:

- YEAR 1
- YEAR 2
- YEAR 3
- NEW ADDITION

NOTE:

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Client
PEI Department of Transportation & Infrastructure

Project Title
Eliot River Elementary School

79 Hilltop Drive
Cornwall, PE
C0A 1H0

DTI Project No.: 170-20031

Sheet Title
Second Floor Phasing Plan - Approximate Final Layout

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

Date: May 2021
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Drawing Number: A3-104

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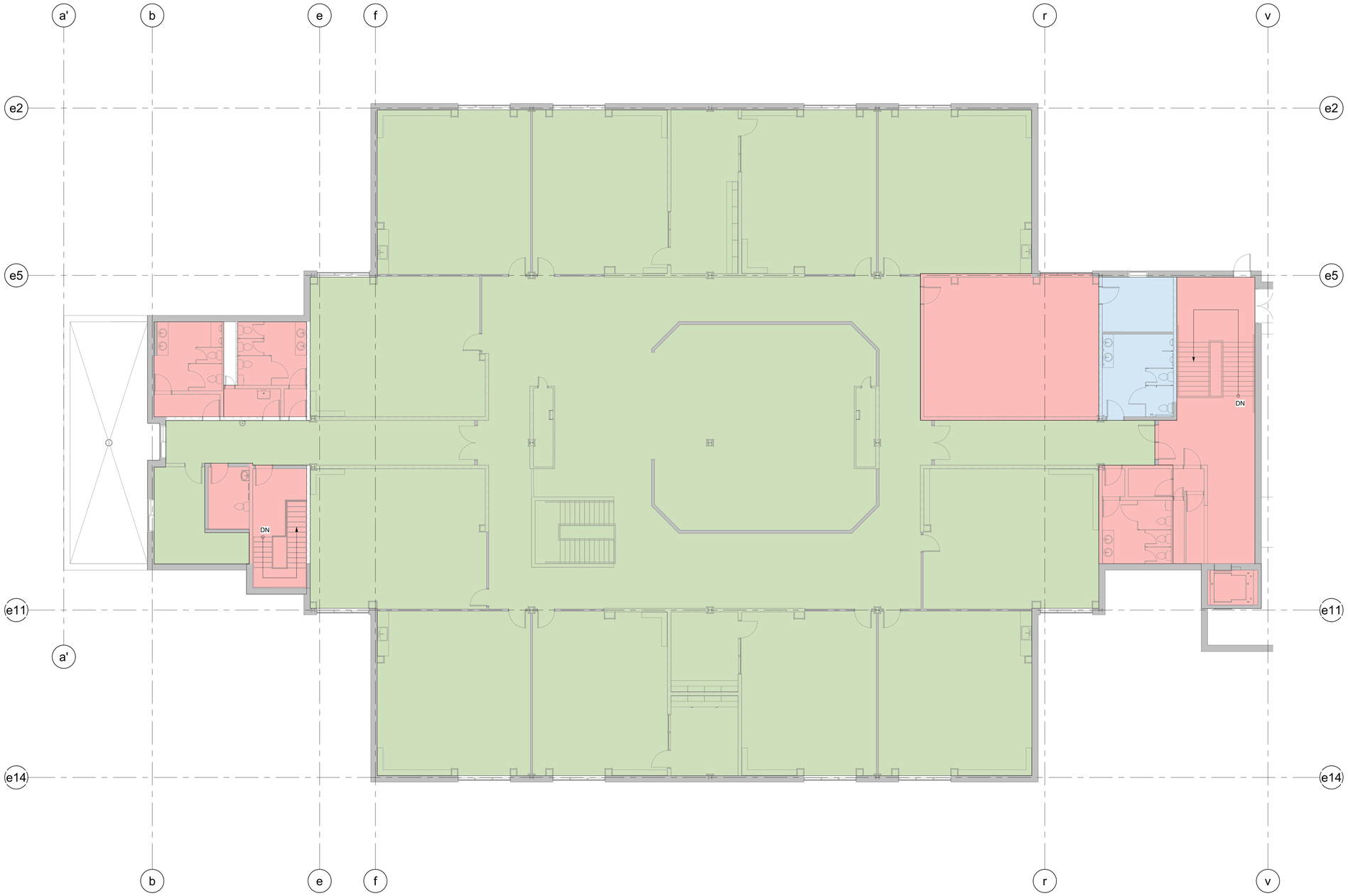

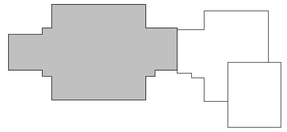

KEY PLAN

1 / A3-105 THIRD FLOOR PLAN
1 : 100

SCOPE PER YEAR LEGEND:

- YEAR 1
- YEAR 2
- YEAR 3
- NEW ADDITION

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#201103

Client
PEI Department of Transportation & Infrastructure

Project Title
Eliot River Elementary School

79 Hilltop Drive
Cornwall, PE
C0A 1H0

DTI Project No.: 170-20031

Sheet Title
Third Floor Phasing Plan - Approximate Final Layout

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

Date: May 2021
Dm By: J.L.A.
Chk By: S.D.M.
Revision
Project Number: 201103
Drawing Number: A3-105

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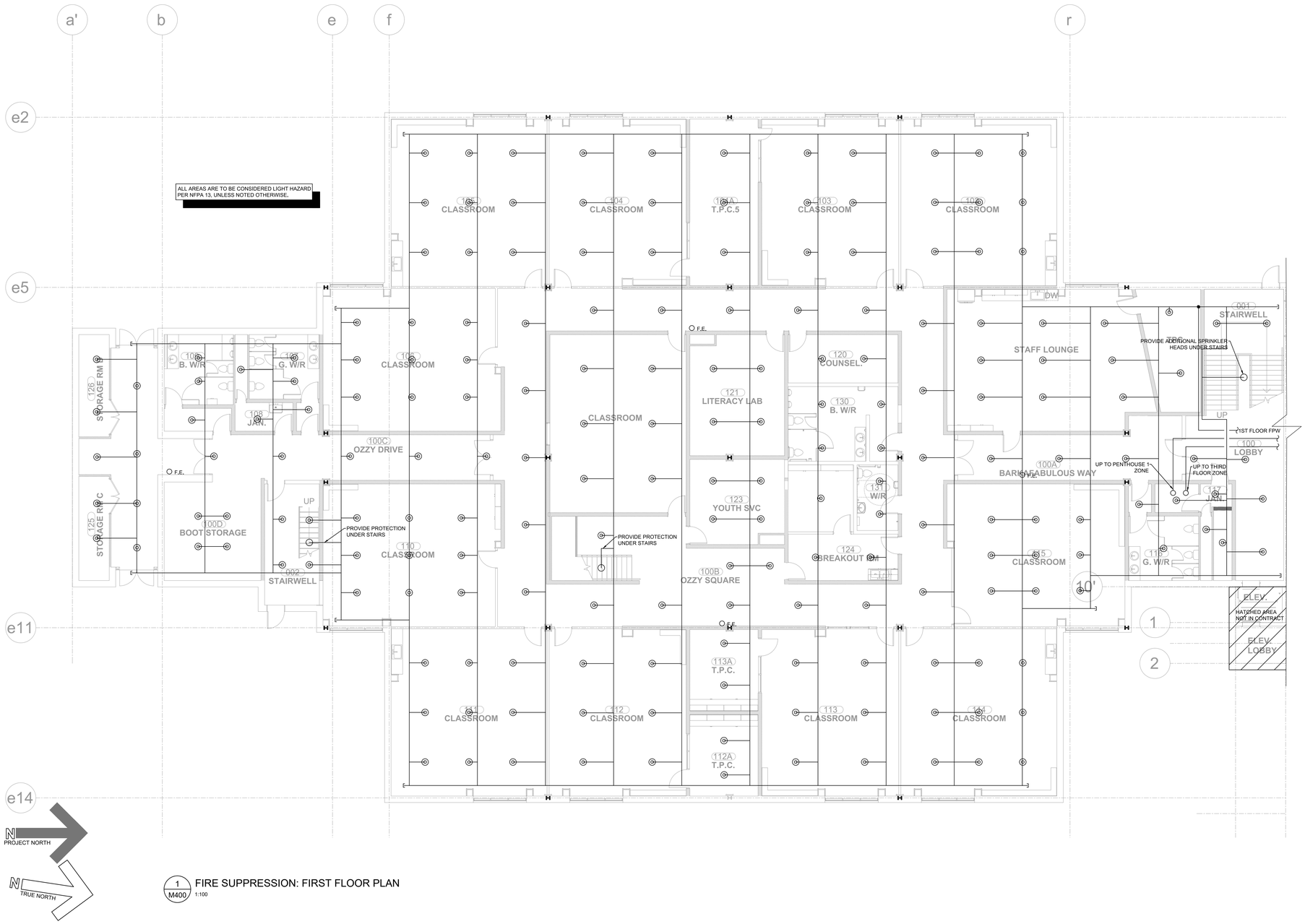

1 M400 FIRE SUPPRESSION: FIRST FLOOR PLAN
1:100

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. WALL MOUNTED FIRE EXTINGUISHER
- FLUSHING CONNECTION
- PIPE RISER UP
- PIPE DOWN
- SPRINKLER PIPE BREAK
- F FLOW SWITCH

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PROFESSIONAL ENGINEER
Ryan L. Cooke
1476
6-May-2021
PROVINCE OF PRINCE EDWARD ISLAND

Client
Department of Transportation and Infrastructure.

Project Title
Eliot River School
79 Hilltop Drive
Cornwall, PEI
C0A 1H0
DTI Project No.: 170-20031

Sheet Title
Fire Suppression
First Floor 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
Project Number: 201103
Drawing Number: M3-400

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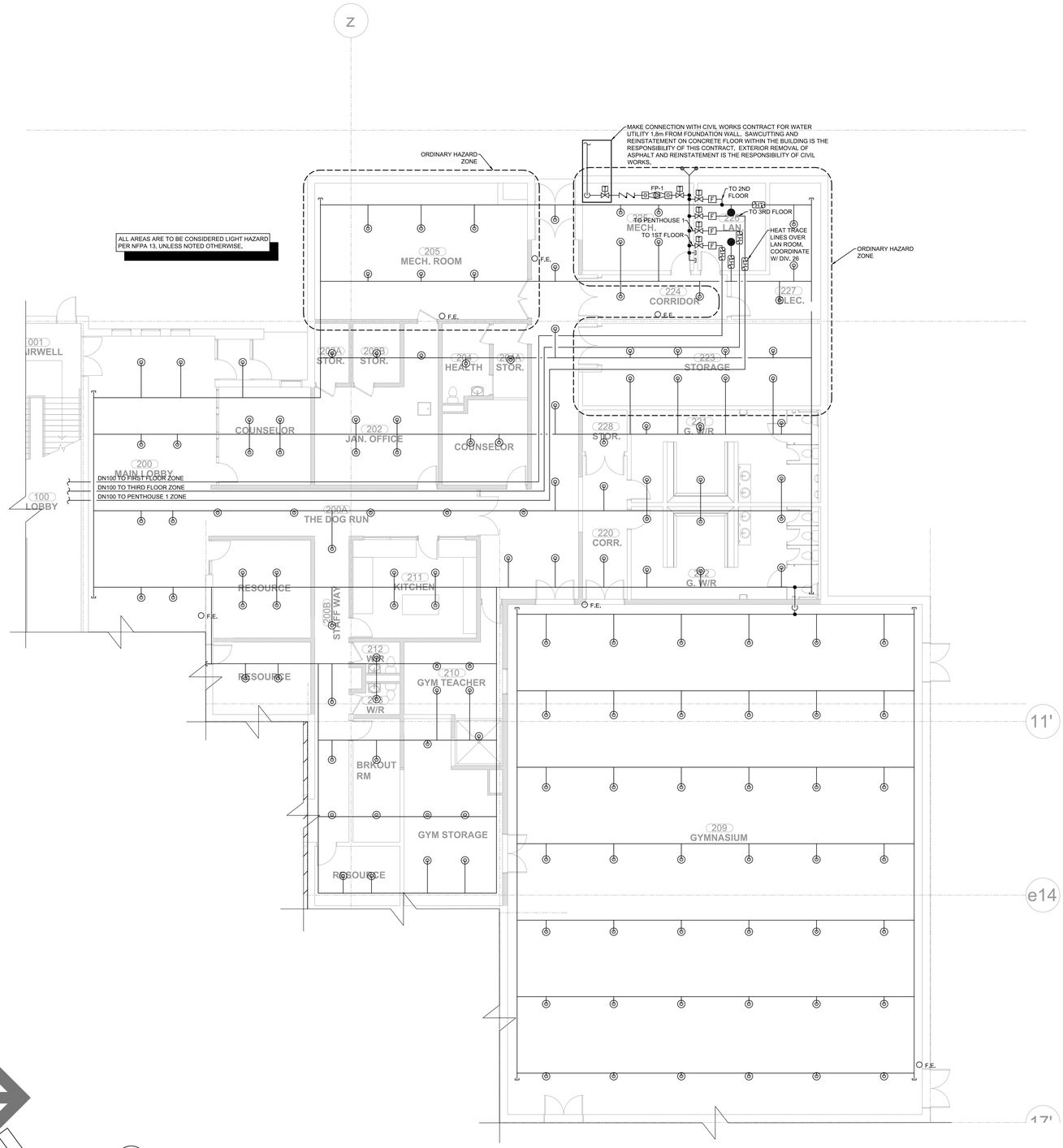

1 / M401 FIRE SUPPRESSION: SECOND FLOOR PLAN
1:100

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PROFESSIONAL ENGINEER
COLES ASSOCIATES LTD.
PROFESSIONAL ENGINEERING
20 FIRE PROTECTION
PROVINCE OF PRINCE EDWARD ISLAND
Ryan L. Cooke
1476
6-May-2021
DATE
PROVINCE OF PRINCE EDWARD ISLAND

Client
Department of Transportation and Infrastructure.

Project Title
Eliot River School
79 Hilltop Drive
Cornwall, PEI
C0A 1H0
DTI Project No.: 170-20031

Sheet Title
Fire Suppression
Second Floor Plan

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

Date: 2021-05-06
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Project Number: 201103
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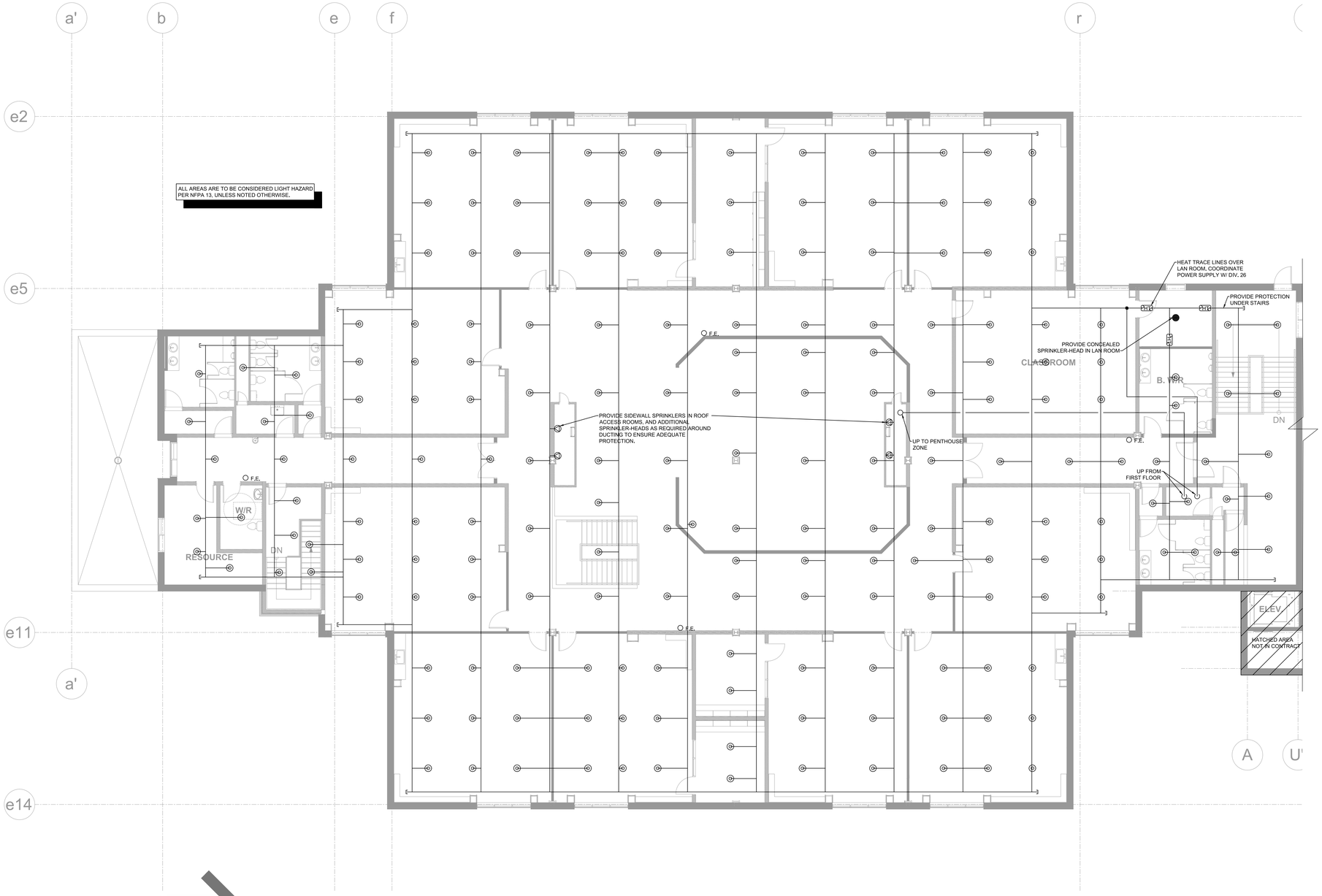

N PROJECT NORTH

N TRUE NORTH

1 / M402 FIRE SUPPRESSION: THIRD FLOOR PLAN
1:100

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Charlottetown, PEI, Canada, C1A 1R6
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PROFESSIONAL ENGINEER
Ryan L. Cooke
1476
6-May-2021
DATE
PROVINCE OF PRINCE EDWARD ISLAND

Client
Department of Transportation and Infrastructure.

Project Title
Eliot River School

79 Hilltop Drive
Cornwall, PEI
C0A 1H0

DTI Project No.: 170-20031

Sheet Title
Fire Suppression
Third Floor 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
Project Number: 201103
Drawing Number: M3-402
Revision -

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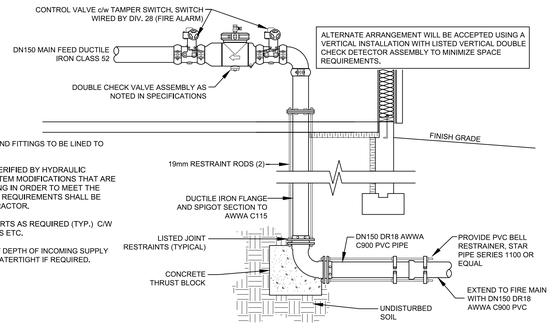


NOTES:

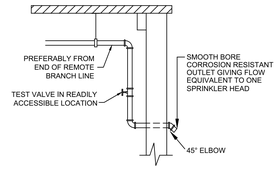
1. ALL DUCTILE IRON PIPE AND FITTINGS TO BE LINED TO AWWA C104.

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.

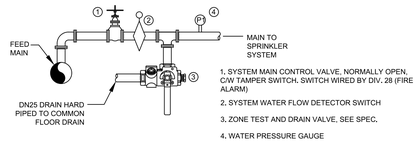
3. PROVIDE PIPING SUPPORTS AS REQUIRED (TYP.) C/W BASEPLATES, NUTS, BOLTS ETC.

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

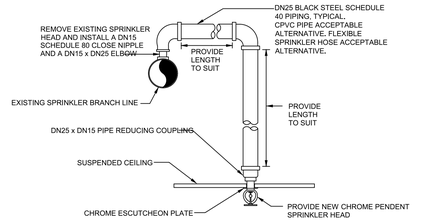
1 / M403 SPRINKLER ENTRANCE DETAIL
N.T.S.



2 / M403 SPRINKLER TEST CONNECTION DETAIL
N.T.S.



3 / M403 TYPICAL ZONE ARRANGEMENT
N.T.S.



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 600mm.

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 / M403 TYPICAL SPRINKLER HEAD DROP DETAIL
N.T.S.

NOTES:

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

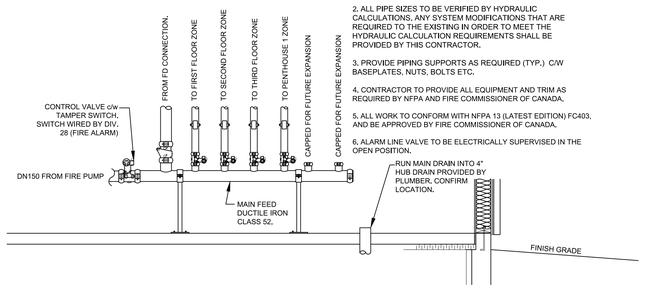
2. ALL PIPE SIZES TO BE VERIFIED BY HYDRAULIC CALCULATIONS. ANY SYSTEM MODIFICATIONS THAT ARE REQUIRED TO THE EXISTING IN ORDER TO MEET THE HYDRAULIC CALCULATION REQUIREMENTS SHALL BE PROVIDED BY THIS CONTRACTOR.

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

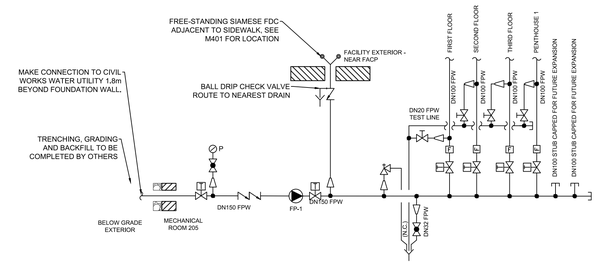
4. CONTRACTOR TO PROVIDE ALL EQUIPMENT AND TRIM AS REQUIRED BY NFPA AND FIRE COMMISSIONER OF CANADA.

5. ALL WORK TO CONFORM WITH NFPA 13 (LATEST EDITION) FC403, AND BE APPROVED BY FIRE COMMISSIONER OF CANADA.

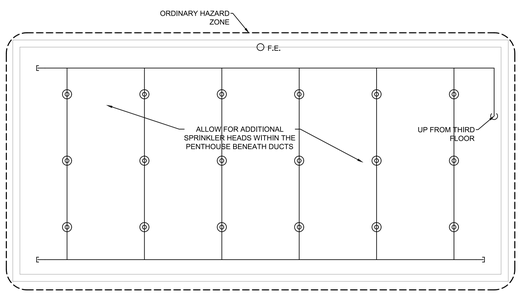
6. ALARM LINE VALVE TO BE ELECTRICALLY SUPERVISED IN THE OPEN POSITION.

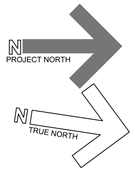


5 / M403 SPRINKLER ZONE ARRAGNEMENT DETAIL
N.T.S.



6 / M403 SPRINKLER PIPING SCHEMATIC
N.T.S.





7 / M403 PENTHOUSE SPRINKLER PLAN
N.T.S.

FIRE PUMP SCHEDULE

TAG.	END USE	TYPE	FLOW (LPS)	HEAD (kPa)	MOTOR POWER (kW)	POWER REQ (V/PH/HZ)	MAKE	MODEL	NOTES
FP-1	PRIMARY FIRE PUMP	ELECTRIC DRIVE, INLINE CENTRIFUGAL BOOSTER PUMP	32	425	22.2	575/3/60	ARMSTRONG	5x5x8 FM	COMPLETE PRE-PIPED PACKAGE WITH CITY WATER BYPASS, AND FIRE PUMP CONTROL PANEL, COMPLETE WITH ALARM CONTACTS, AND TRANSFER SWITCH

SPRINKLER NOTES:

1. REFERENCES TO SPRINKLER SYSTEMS WITHIN THESE DRAWINGS ARE ONLY PROVIDED TO AID IN LOCATING PIPING AND HEADS ON SITE AND IS NOT FOR CONSTRUCTION. ALL SPRINKLER INFORMATION SHOWN IS ONLY APPROXIMATE OR SUGGESTED. CONTRACTOR IS RESPONSIBLE TO ENSURE ALL SPACES ARE PROTECTED AS PER CODE.
2. EXACT LOCATION OF SPRINKLER HEADS TO BE COORDINATED WITH REFLECTED CEILING PLAN - SEE ARCH. DRAWINGS.
3. CONTRACTOR RESPONSIBLE TO REFER TO ARCHITECTURAL ROOM FINISH SCHEDULE FOR ROOM LAYOUTS, CEILING CONSTRUCTION, MOUNTING CEILING HEIGHTS AS CEILINGS HEIGHTS VARY THROUGHOUT.
4. CONTRACTOR SHALL REVIEW ARCHITECTURAL SET OF CONSTRUCTION PLANS 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.
6. ABOVE ALL ELSE, CONTRACTOR IS RESPONSIBLE FOR ALL WORK IN ORDER TO PROVIDE AND ENSURE THAT SPACE IS PROTECTED ACCORDING TO CODE. PROVIDE WRITTEN GUARANTEE FOR SAME AS REQUIRED BY L.A.O. AND/OR A.H.J. PROVIDE STAMPED ENGINEERED DRAWINGS AND HYDRAULIC CALCULATIONS AS REQUIRED.
7. REFER TO ARCH. DRAWINGS FOR LOCATION OF ALL FIRE RATED WALLS, CEILING, AND FLOOR ASSEMBLIES. PROVIDE FIRE STOPPING 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. COORDINATE WITH G.C.
9. THIS DRAWING ONLY INDICATES SUGGESTED PATH OF NEW RISERS AND MAIN LINES. CONTRACTOR IS RESPONSIBLE FOR LOCATING HEADS AS REQUIRED BY CODES. CONTRACTOR RESPONSIBLE FOR COORDINATING WITH G.C. FOR FINAL LOCATION OF ALL PIPING.
10. CONTRACTOR SHALL COORDINATE ALL WORK WITH ALL OTHER TRADES AS CEILING SPACE IS LIMITED.
11. CONTRACTOR SHALL ENSURE PIPING IS NOT SUBJECT TO FREEZING TEMPERATURES IN ANY LOCATION. IF FREEZING COULD OCCUR, PROVIDE ANTI-FREEZING STRATEGY SATISFYING CODES.
12. CONTRACTOR SHALL ALLOW FOR OFFSETS OFF ALL BRANCHES FOR CENTERING SPRINKLER HEADS IN CEILING TILES IN MAIN ROOMS.
13. ENSURE SPRINKLER COVERAGE IS SUITABLE FOR SPACE RATINGS.
14. CONTRACTOR TO COORDINATE INSTALLATION SCHEDULE WITH OWNERS REPRESENTATIVE. CONTRACTOR TO SCHEDULE ALL WORK TO MINIMIZE DISRUPTION TO OPERATIONS.
15. PROVIDE SPRINKLER DRAIN PIPING FROM SPRINKLER TEST CONNECTION TO EXTERIOR OF BUILDING.
16. SIAMESE CONNECTION TO USE GALVANIZED SCHEDULE 10 PIPE.

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PROFESSIONAL ENGINEER
Ryan L. Cooke
1476
6-May-2021
PROVINCE OF PRINCE EDWARD ISLAND

Client
Department of Transportation and Infrastructure.

Project Title
Eliot River School
79 Hilltop Drive,
Cornwall, PEI
C0A 1H0
DTI Project No.: 170-20031

Sheet Title
Fire Suppression:
Details, Schedules, and Penthouse Plan

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

Date: 2021-05-06
Drn By: K.M.L., E.I.T
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