Request for Certificate of Compliance

Wayland High School Building Construction
(DEP File Number 322-734)

July 2018

Proponent:
Town of Wayland

Submitted to:
Wayland Conservation Commission

Weston & Sampson

Five Centennial Drive
Peabody, MA 01960-7985
www.westonandsampson.com
Tel: 978-532-1900
Fax: 978-977-0100

5 Centennial Drive, Peabody, MA 01960 (HQ)
Tel: 978.532.1900

Wayland High School Building Construction
WSE Project No. 2170229.C

July 24, 2018

Wayland Conservation Commission
41 Cochituate Road
Wayland, MA 1778

Re: Request for Certification of Compliance
Wayland High School Building Construction
DEP File #322-734

To whom it may concern:

On behalf of the Town of Wayland, Weston & Sampson is pleased to provide you with this Request for Certificate of Compliance (RCoC) for building construction at the Wayland High School, located at 264 Old Connecticut Path in Wayland (DEP File Number 322-734).

The Order of Conditions for the NOI for this project was issued by the Wayland Conservation Commission on May 28, 2010. The project was substantially complete in the Fall 2010.

To close-out the wetlands protection for the project and to fulfill the requirements of the Massachusetts Wetlands Protection Act and the Wayland Conservation Commission Order of Conditions, the following attached documents are being submitted:

Attachment A: Completed WPA Form 8A
Attachment B: As Built Plans
Attachment C: Order of Conditions

If you have any questions regarding this submittal, please contact me, at (978) 532-1900.

Very truly yours,

WESTON & SAMPSON, INC.

Eugene Bolinger, PE
Project Manager

Appendix A

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 8A – Request for Certificate of Compliance

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

DEP File Number:

322-734
Provided by DEP

A. Project Information

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.

1. This request is being made by:

Town of Wayland - Ben Keefe
Name

41 Cochituate Road
Mailing Address

Wayland	MA	01778
City/Town	State	Zip Code

508-358-3696
Phone Number

2. This request is in reference to work regulated by a final Order of Conditions issued to:

Town of Wayland
Applicant

5/28/10	322-734
Dated	DEP File Number

Upon completion of the work authorized in an Order of Conditions, the property owner must request a Certificate of Compliance from the issuing authority stating that the work or portion of the work has been satisfactorily completed.

3. The project site is located at:

260 Old Connecticut Path	Wayland
Street Address	City/Town
37	34
Assessors Map/Plat Number	Parcel/Lot Number

4. The final Order of Conditions was recorded at the Registry of Deeds for:

Property Owner (if different)

Middlesex	00577	181
County	Book	Page

Certificate (if registered land)

5. This request is for certification that (check one):

☒ the work regulated by the above-referenced Order of Conditions has been satisfactorily completed.

☐ the following portions of the work regulated by the above-referenced Order of Conditions have been satisfactorily completed (use additional paper if necessary).

☐ the above-referenced Order of Conditions has lapsed and is therefore no longer valid, and the work regulated by it was never started.

A. Project Information (cont.)

6. Did the Order of Conditions for this project, or the portion of the project subject to this request, contain an approval of any plans stamped by a registered professional engineer, architect, landscape architect, or land surveyor?

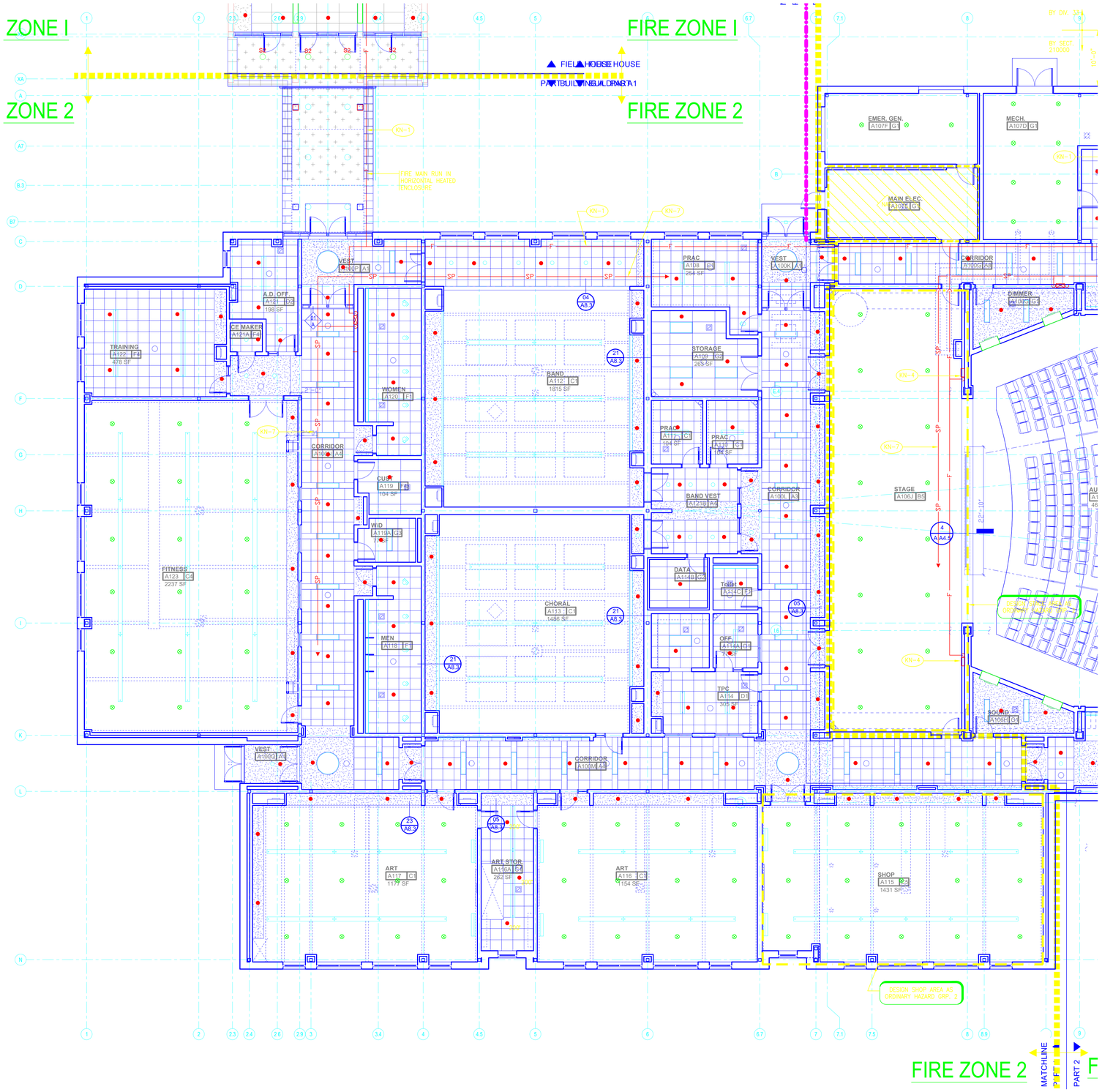
   ☒ Yes — If yes, attach a written statement by such a professional certifying substantial compliance with the plans and describing what deviation, if any, exists from the plans approved in the Order.

   ☐ No

B. Submittal Requirements

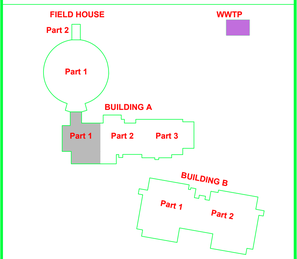
Requests for Certificates of Compliance should be directed to the issuing authority that issued the final Order of Conditions (OOC). If the project received an OOC from the Conservation Commission, submit this request to that Commission. If the project was issued a Superseding Order of Conditions or was the subject of an Adjudicatory Hearing Final Decision, submit this request to the appropriate DEP Regional Office (see http://www.mass.gov/dep/about/region/findyour.htm).

Appendix B



1 A FP2.1.1 BUILDING A – FIRST FLOOR PLAN PART 1 – FIRE PROTECTION
SCALE: 1/8" = 1'-0"

KEYPLAN



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BID SET
09/03/2010

Wayland High School
Wayland, MA

BUILDING A - FIRST FLOOR PLAN
PART 1 - FIRE PROTECTION

DRAWN BY:
CHECKED BY: CST
SCALE:

REVISIONS NO.	DATE	REMARKS	BY

DRAWING NUMBER
A
FP2.1.1

JOB NUMBER 0004

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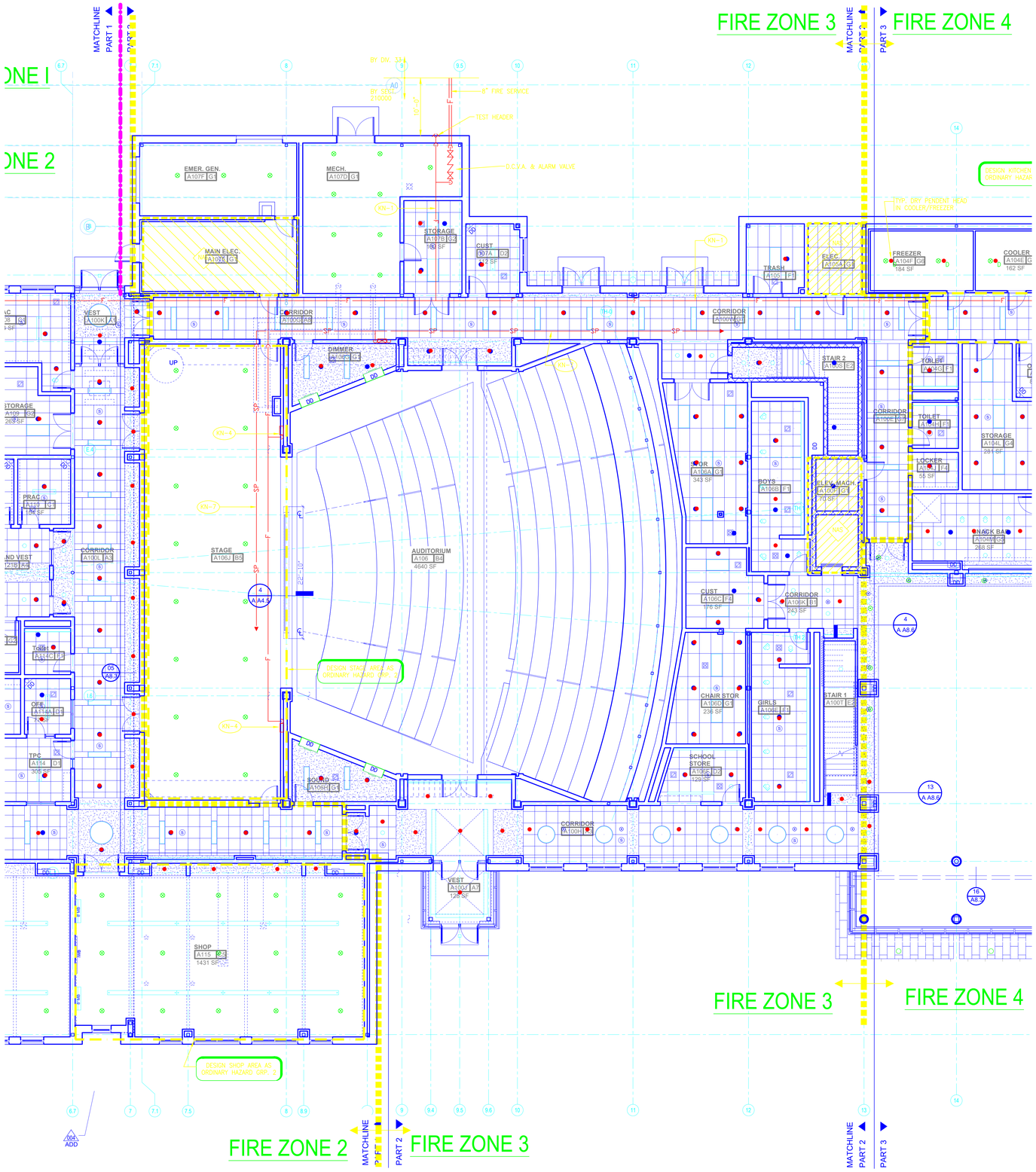
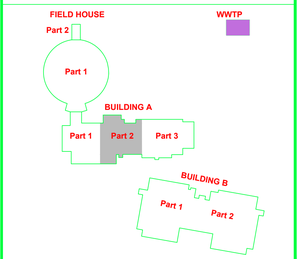


FIRE PROTECTION KEY NOTES

- KN-1 FIRE DISTRIBUTION MAIN.
- KN-2 BASE OF RISER CONTROLLER CONSISTING OF VALVE w/TAMPER SWITCH, FLOW SWITCH, AND TEST ASSEMBLY.
- KN-3 SCVA TO CONTROL SPRINKLER FLOW TO DESIGNATED ZONE. REFER TO DETAIL.
- KN-4 FDVC CONSISTING OF 2-1/2" FIRE DEPT. VALVE w/2-1/2" x 1-1/2" REDUCER
- KN-5 COMBINATION RISER
- KN-6 STANDPIPE RISER
- KN-7 HYDRAULICALLY SIZED SPRINKLER MAIN TO DESIGNATED FIRE ZONE.
- KN-8 FIRE HOSE CABINET
- KN-9 FIRE DEPARTMENT CONNECTION

KEYPLAN



1 / FP2.1.2 BUILDING A – FIRST FLOOR PLAN PART 2 – FIRE PROTECTION
SCALE: 1/8" = 1'-0"

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Wayland, MA

BUILDING A - FIRST FLOOR PLAN
PART 2 - FIRE PROTECTION

DRAWN BY:
CHECKED BY: CST
SCALE:

REVISIONS NO.	DATE	REMARKS	BY

DRAWING NUMBER
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FP2.1.2

JOB NUMBER 426409

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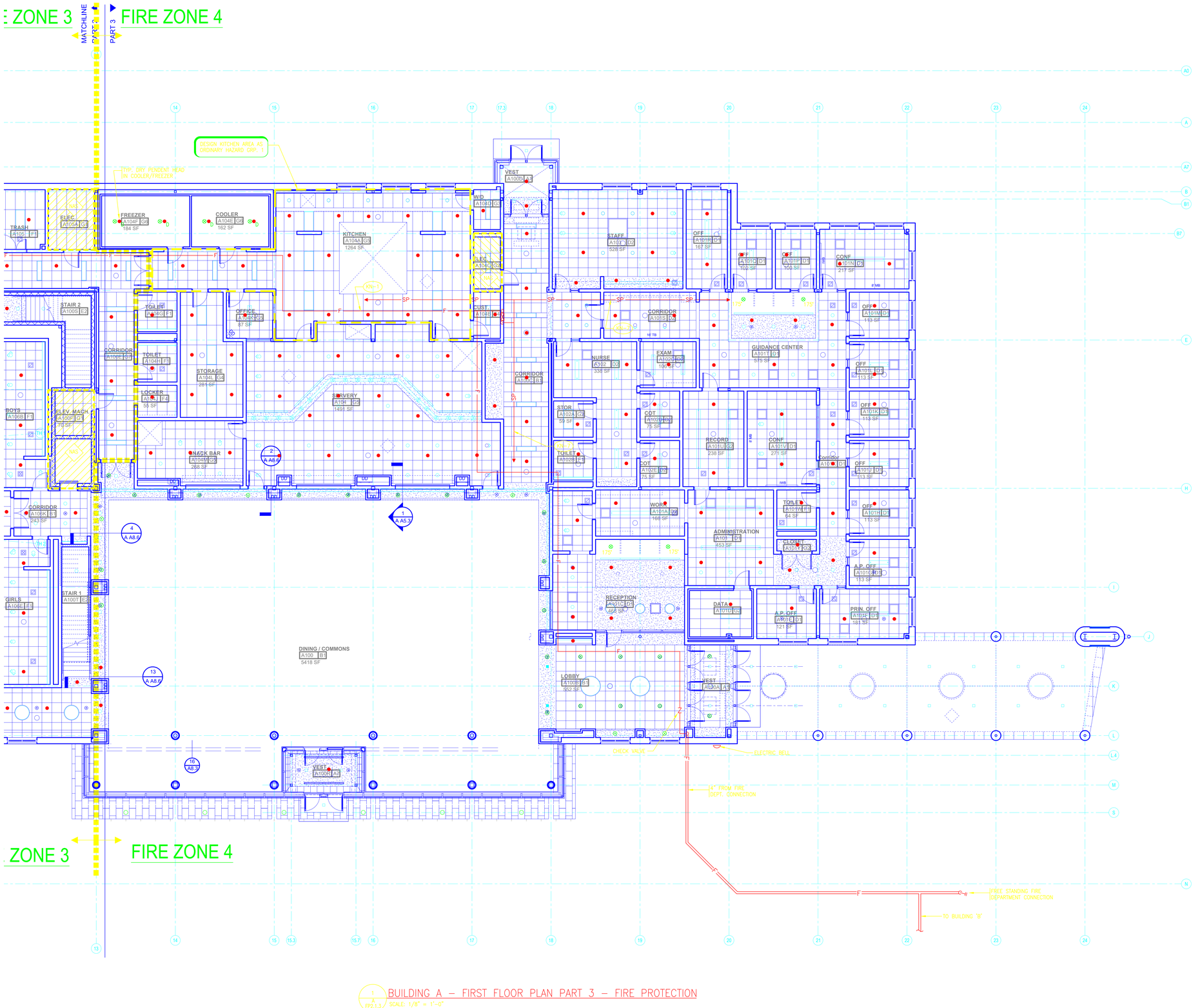
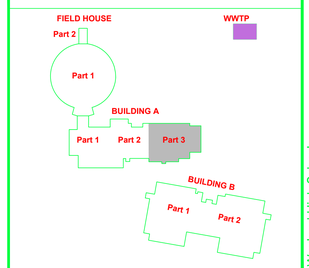


FIRE PROTECTION KEY NOTES

- KN–1 FIRE DISTRIBUTION MAIN.
- KN–2 BASE OF RISER CONTROLLER CONSISTING OF VALVE w/TAMPER SWITCH, FLOW SWITCH, AND TEST ASSEMBLY.
- KN–3 NOVA TO CONTROL SPRINKLER FLOW TO DESIGNATED ZONE. REFER TO DETAIL.
- KN–4 FDXC CONSISTING OF 2–1/2" FIRE DEPT. VALVE w/2–1/2" x 1–1/2" REDUCER
- KN–5 COMBINATION RISER
- KN–6 STANDPIPE RISER
- KN–7 HYDRAULICALLY SIZED SPRINKLER MAIN TO DESIGNATED FIRE ZONE
- KN–8 FIRE HOSE CABINET
- KN–9 FIRE DEPARTMENT CONNECTION

KEYPLAN



1 / FP2.1.3 BUILDING A – FIRST FLOOR PLAN PART 3 – FIRE PROTECTION
SCALE: 1/8" = 1'-0"

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Wayland High School
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BUILDING A - FIRST FLOOR PLAN
PART 3 - FIRE PROTECTION
DRAWN BY:
CHECKED BY: CST
SCALE:

REVISIONS NO.	DATE	REMARKS	BY

DRAWING NUMBER
A
FP2.1.3

JOB NUMBER 626409

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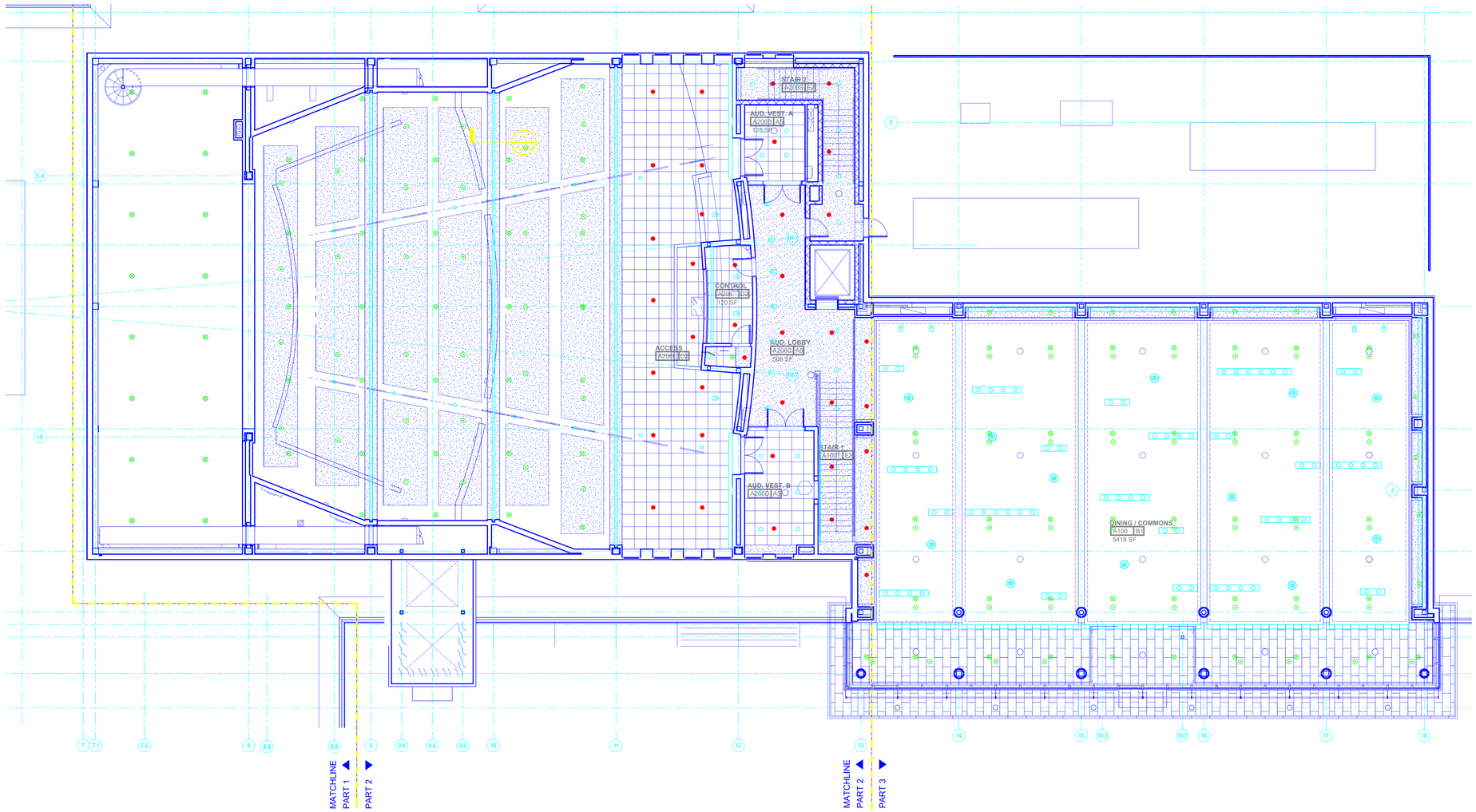

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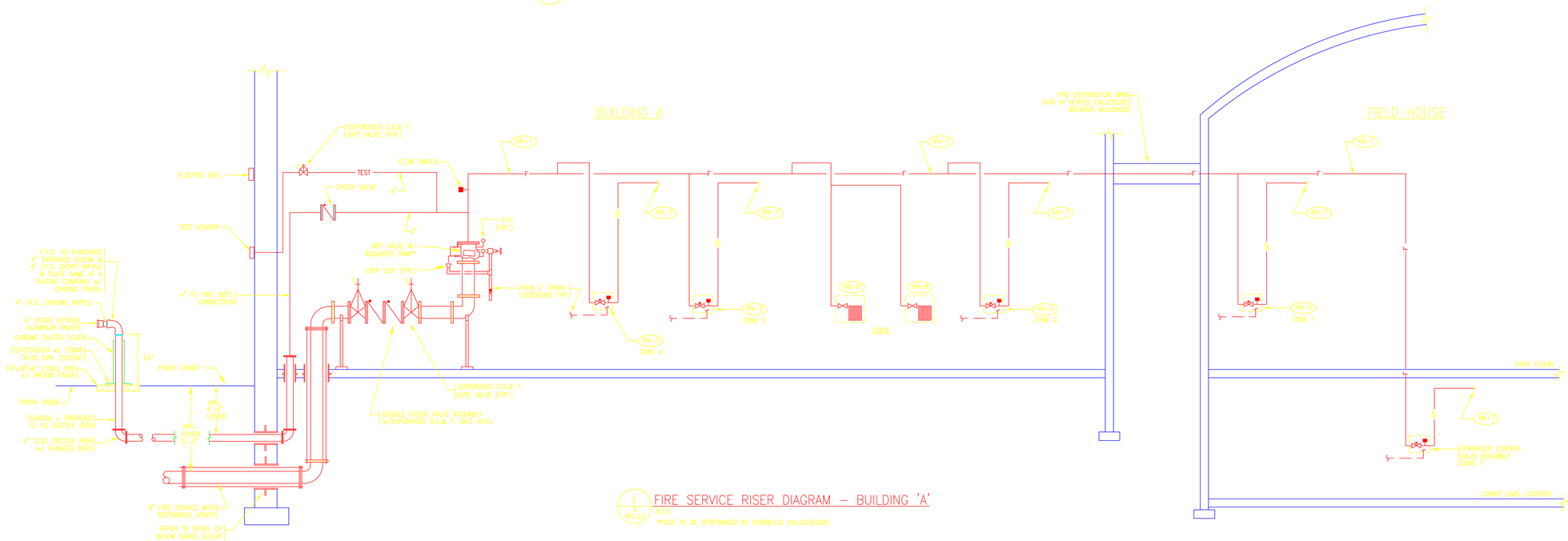
SCALE: 1/8" = 1'-0"

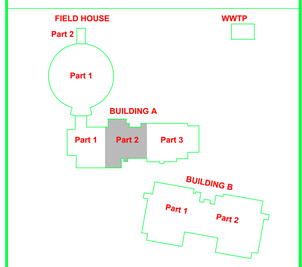


2 FP2.2.2 FIRE SERVICE RISER DIAGRAM – BUILDING 'A'
N.T.S.
**SIZE TO BE DETERMINED BY HYDRAULIC CALCULATIONS

FIRE PROTECTION KEY NOTES

- KN-1 FIRE DISTRIBUTION MAIN.
- KN-2 BASE OF RISER CONTROLLER CONSISTING OF VALVE w/TAMPER SWITCH, FLOW SWITCH, AND TEST ASSEMBLY.
- KN-3 SCAV TO CONTROL SPRINKLER FLOW TO DESIGNATED ZONE. REFER TO DETAIL.
- KN-4 FDVC CONSISTING OF 2-1/2" FIRE DEPT. VALVE w/2-1/2" x 1-1/2" REDUCER
- KN-5 COMBINATION RISER
- KN-6 STANDPIPE RISER
- KN-7 HYDRAULICALLY SIZED SPRINKLER MAIN TO DESIGNATED FIRE ZONE.
- KN-8 FIRE HOSE CABINET
- KN-9 FIRE DEPARTMENT CONNECTION

KEYPLAN



REVISIONS NO.	DATE	REMARKS	BY

DRAWING NUMBER: A
FP2.2.2

JOB NUMBER 426409

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Wayland High School
Wayland,MA
BUILDING A - SECOND FLOOR PLAN PART 2 - FIRE PROT.
SCALE:
DRAWN BY:
CHECKED BY: CST

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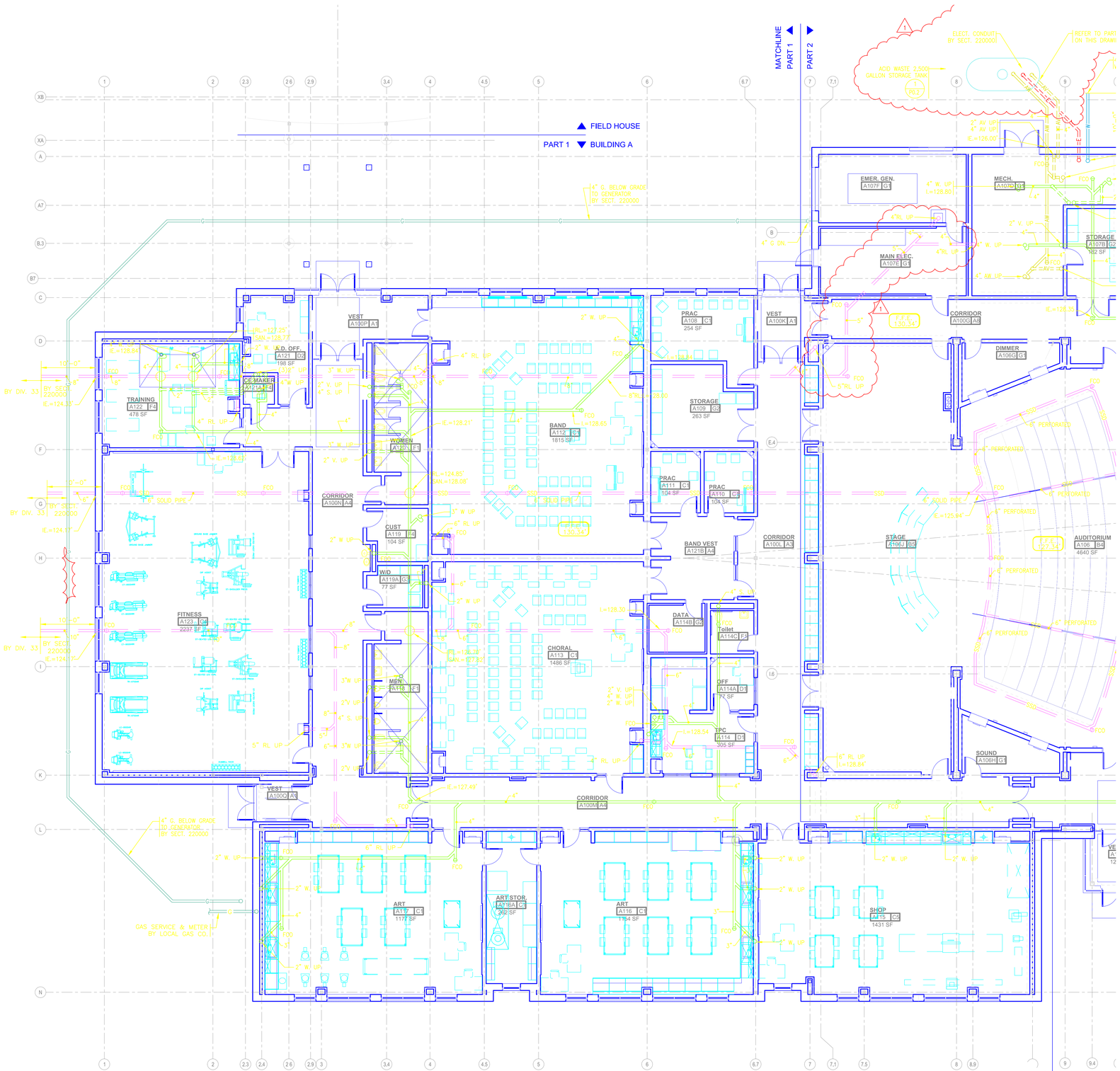

1 BELOW SLAB PLAN PART 1 – PLUMBING
A-P2.0.1 SCALE: 1/8" = 1'-0"

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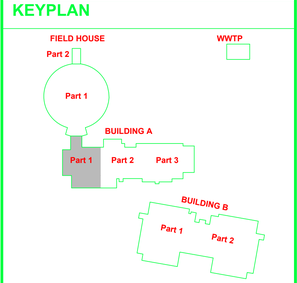

Wayland High School
Wayland, MA
BELOW SLAB PLAN PART 1
BUILDING A

SCALE: AS NOTED
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REVISIONS NO.	DATE	REMARKS	BY

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A-P2.0.1

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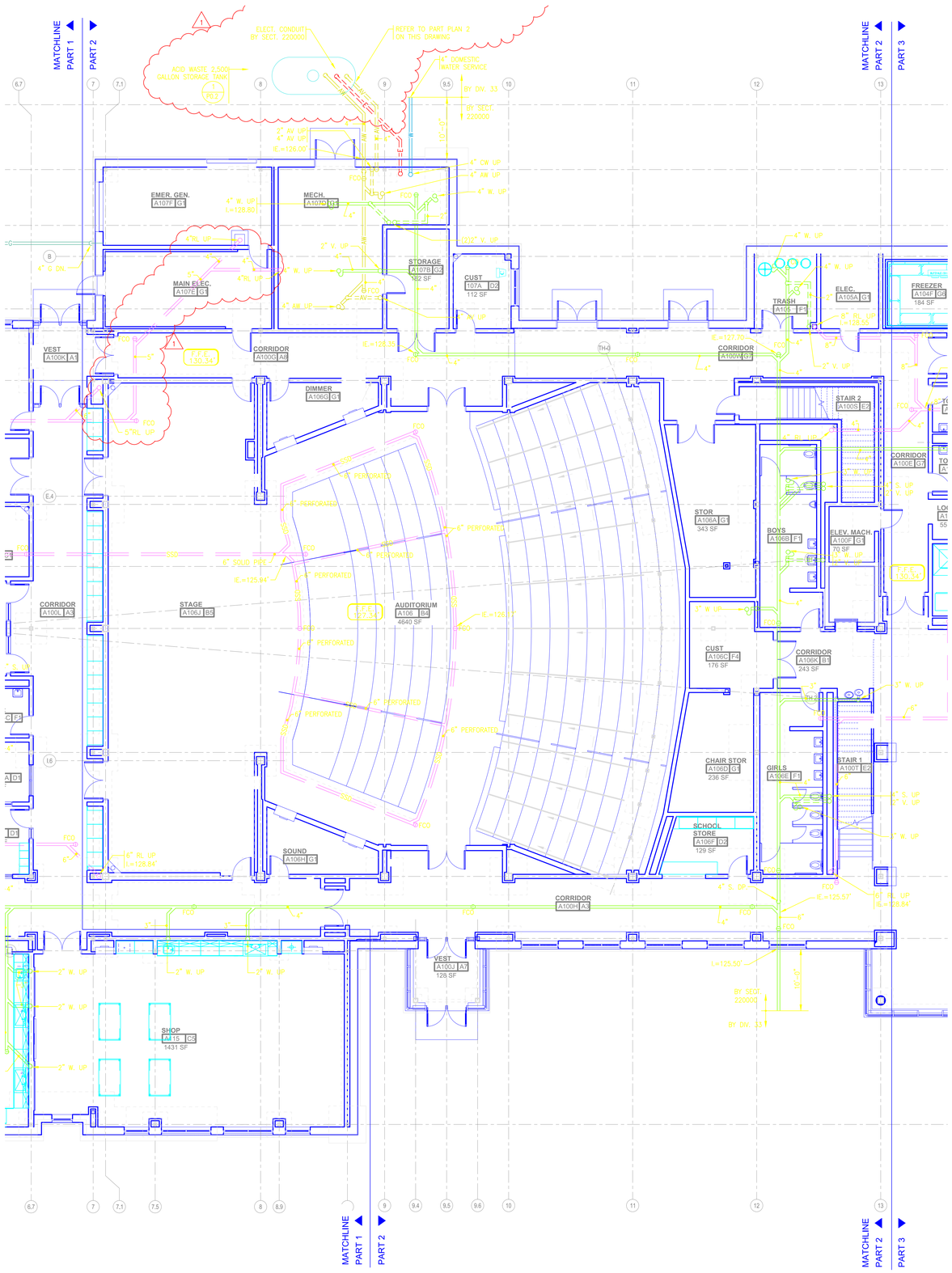
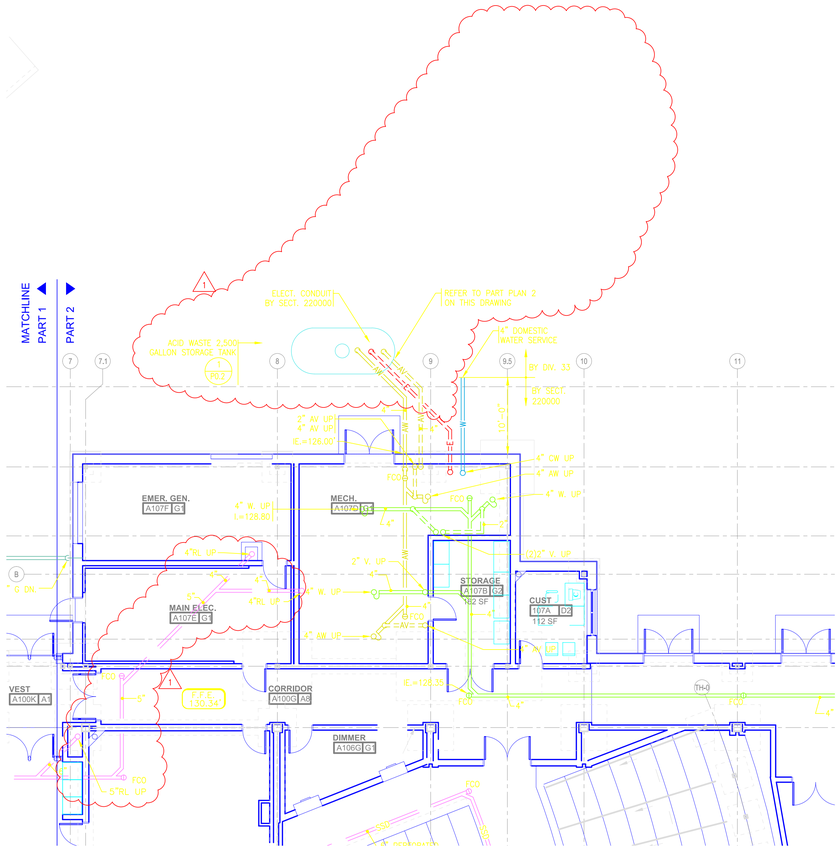


1 BELOW SLAB PLAN PART 2 – PLUMBING
A-P2.0.2 SCALE: 1/8" = 1'-0"



2 BELOW SLAB PLAN PART 2 – PLUMBING
A-P2.0.2 SCALE: 1/8" = 1'-0"

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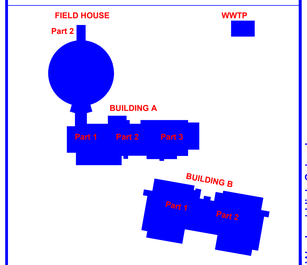

Wayland High School
Wayland, MA
BELOW SLAB PLAN PART 2
BUILDING A

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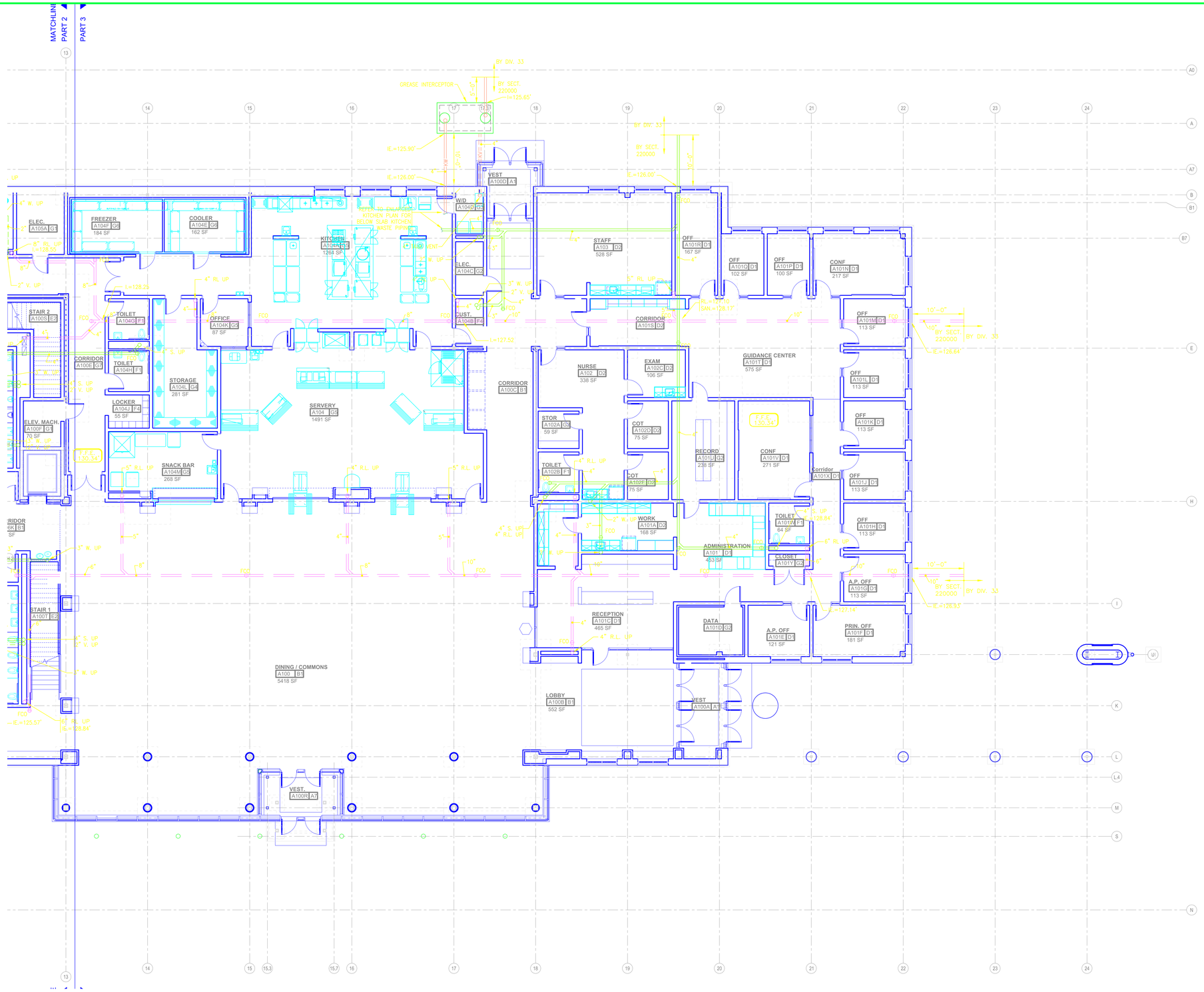

1 A-P2.0.3 UNDER SLAB PLAN PART 3 – PLUMBING
SCALE: 1/8" = 1'-0"

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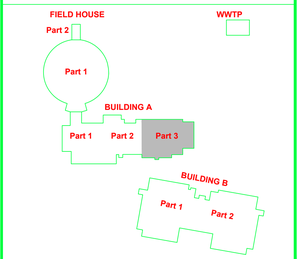

Wayland High School
Wayland, MA
UNDER SLAB PLAN PART 3
BUILDING A
SCALE: AS NOTED
DRAWN BY: JMP
CHECKED BY: CST

REVISIONS NO.	DATE	REMARKS	BY

DRAWING NUMBER
A-P2.0.3

JOB NUMBER 426409

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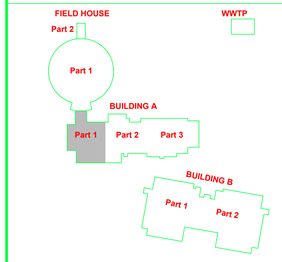
KEYPLAN



Wayland High School
Wayland, MA

FIRST FLOOR PLAN PART 1
BUILDING A

SCALE: AS NOTED | DRAWN BY: JMP | CHECKED BY: CST

REVISIONS NO.	DATE	REMARKS	BY

DRAWING NUMBER
A-P2.1.1

JOB NUMBER 426409

1 A-P2.1.1 FLOOR PLAN PART 1 – PLUMBING
SCALE: 1/8" = 1'-0"

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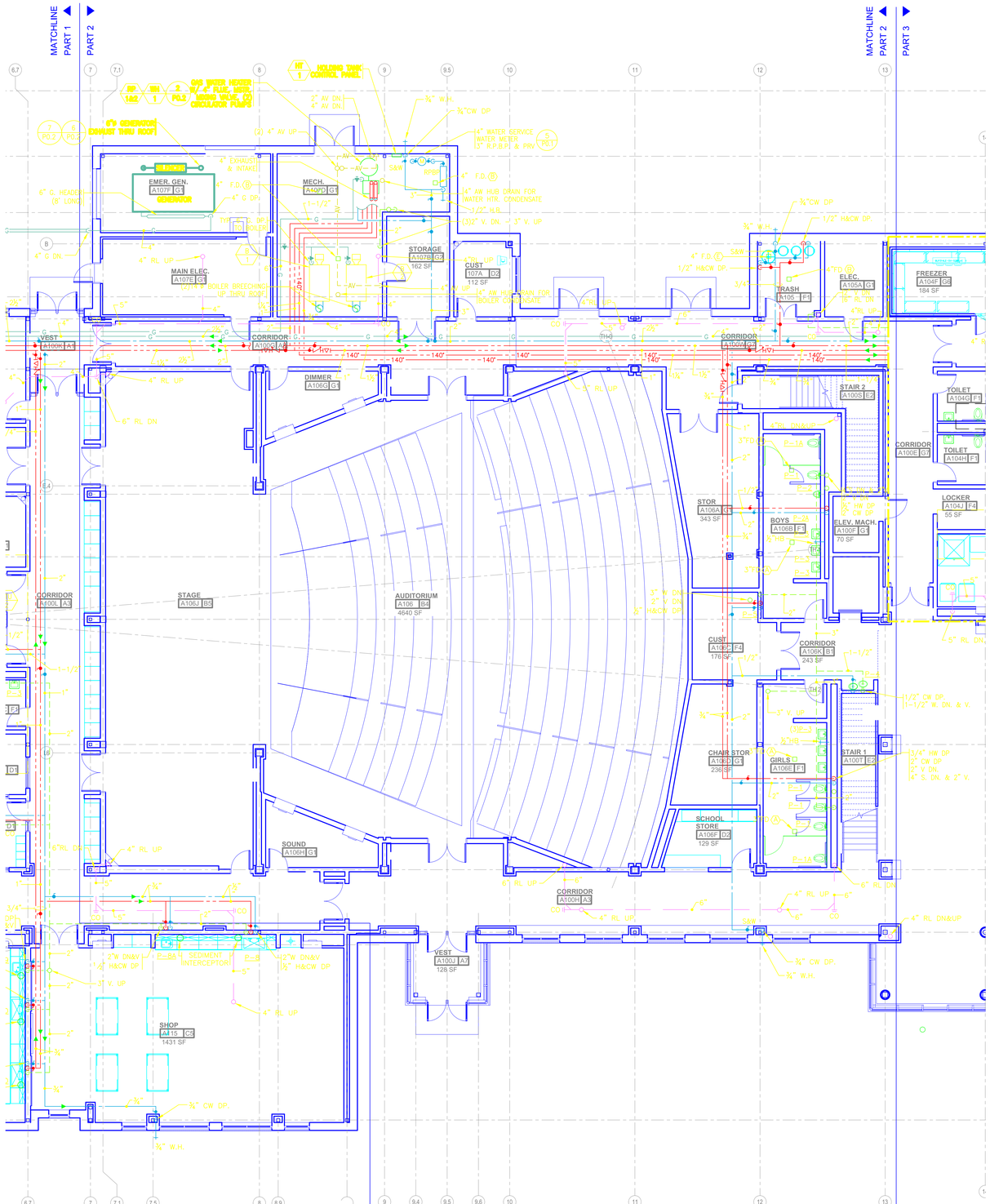
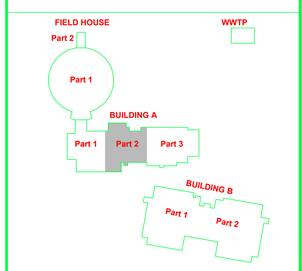


1 A-P2.1.2 FIRST FLOOR PLAN PART 2 – PLUMBING
SCALE: 1/8" = 1'-0"

KEYPLAN



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Wayland High School
Wayland, MA
FIRST FLOOR PLAN PART 2
BUILDING A

SCALE: AS NOTED
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CHECKED BY: CST

REVISIONS NO.	DATE	REMARKS	BY

DRAWING NUMBER
A-P2.1.2

JOB NUMBER 426409

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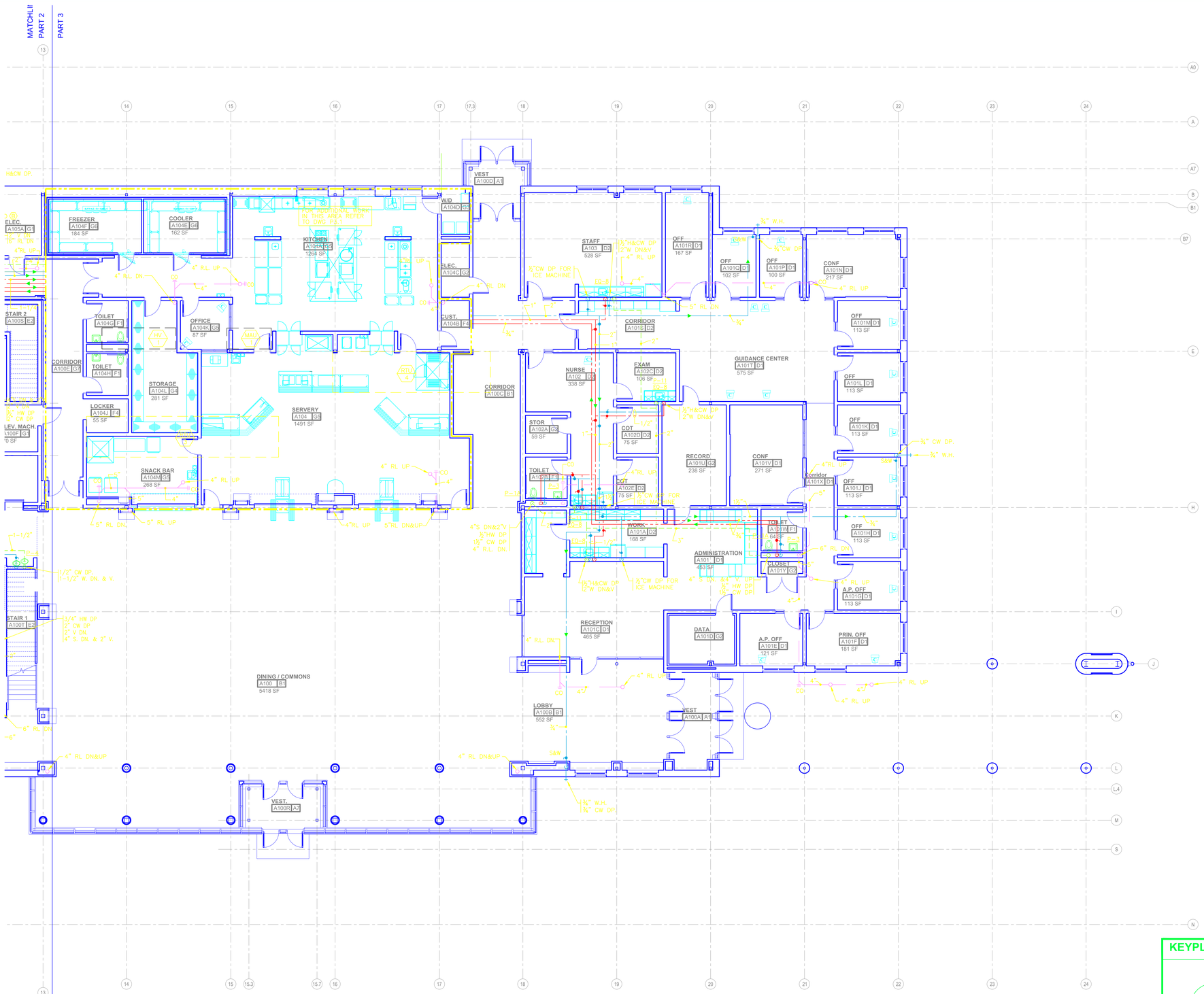

1 A-P2.1.3 FIRST FLOOR PLAN PART 3 – PLUMBING
SCALE: 1/8" = 1'-0"

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09/03/2010

KEYPLAN

Wayland High School
Wayland, MA
FIRST FLOOR PLAN PART 3
BUILDING A
SCALE: AS NOTED
DRAWN BY: JMP
CHECKED BY: CST

REVISIONS NO.	DATE	REMARKS	BY

DRAWING NUMBER
A-P2.1.3

JOB NUMBER 426409

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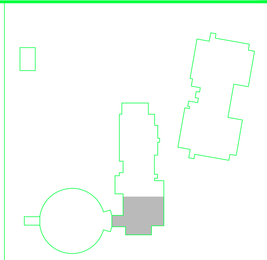
PLAN NORTH

SCALE: AS NOTED DRAWN BY: JMP CHECKED BY: CST

SECOND FLOOR PLAN PART 1
BUILDING A
Wayland High School
Wayland, MA

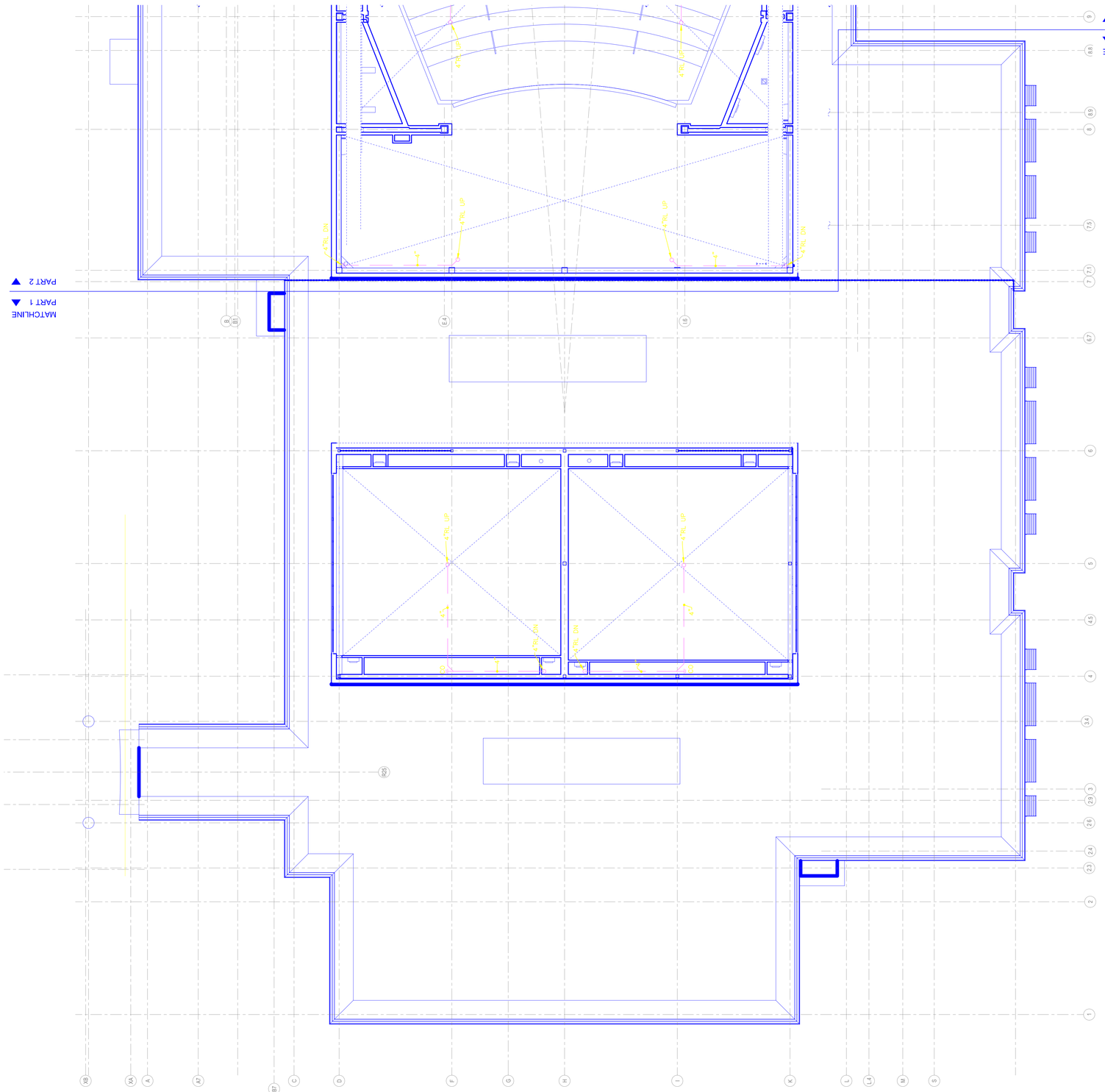
A•P2.2.1

KEYPLAN



NO	REVISIONS	DATE

PROJECT NUMBER 0906



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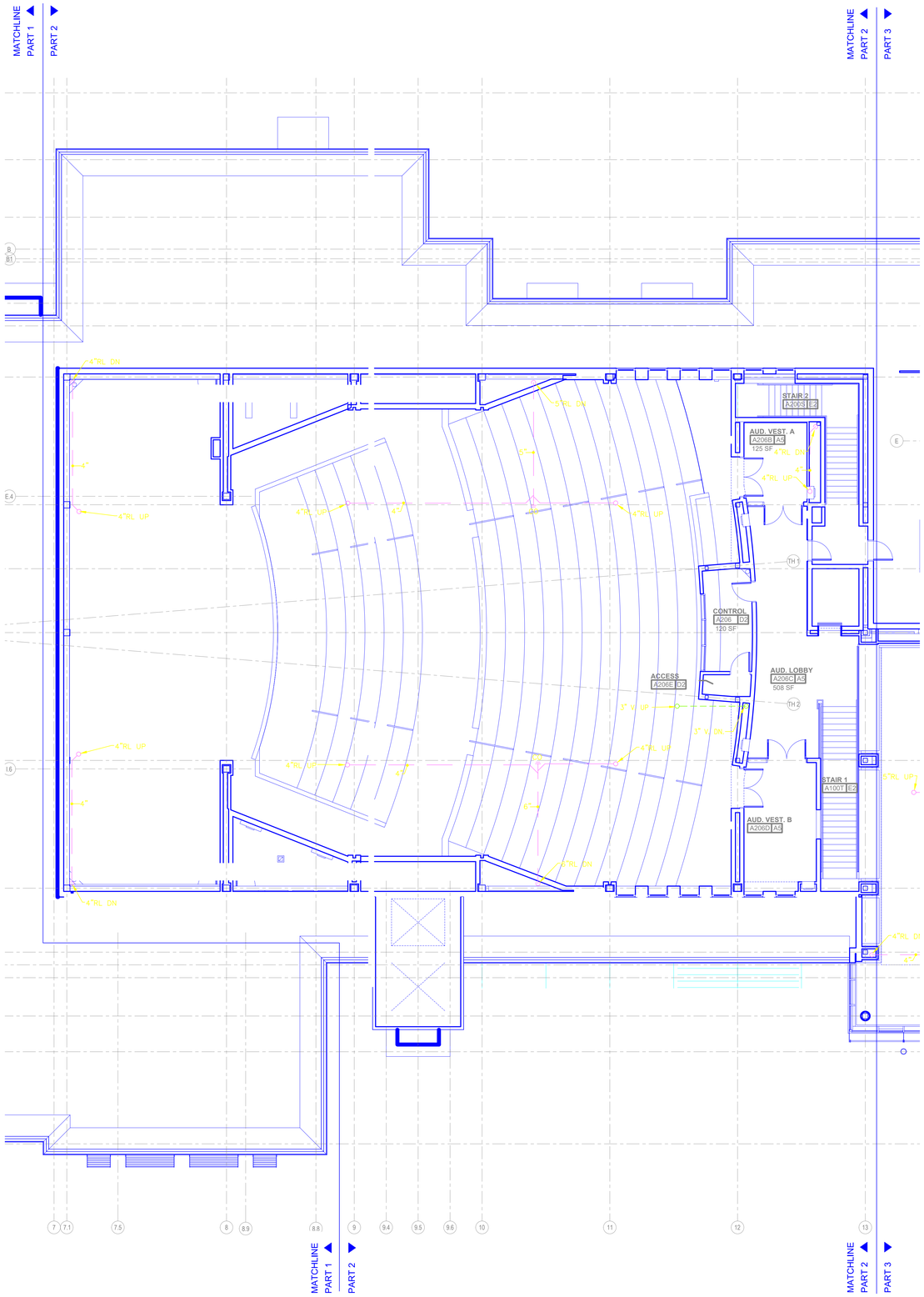

1 A-P2.2.2 SECOND FLOOR PLAN PART 2 – PLUMBING
SCALE: 1/8" = 1'-0"

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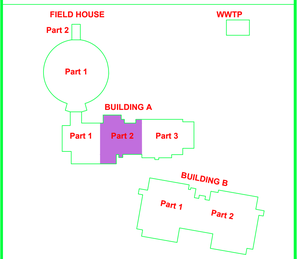

Wayland High School
Wayland, MA
SECOND FLOOR PLAN PART 2
BUILDING A
SCALE: AS NOTED
DRAWN BY: JMP
CHECKED BY: CST

REVISIONS NO.	DATE	REMARKS	BY

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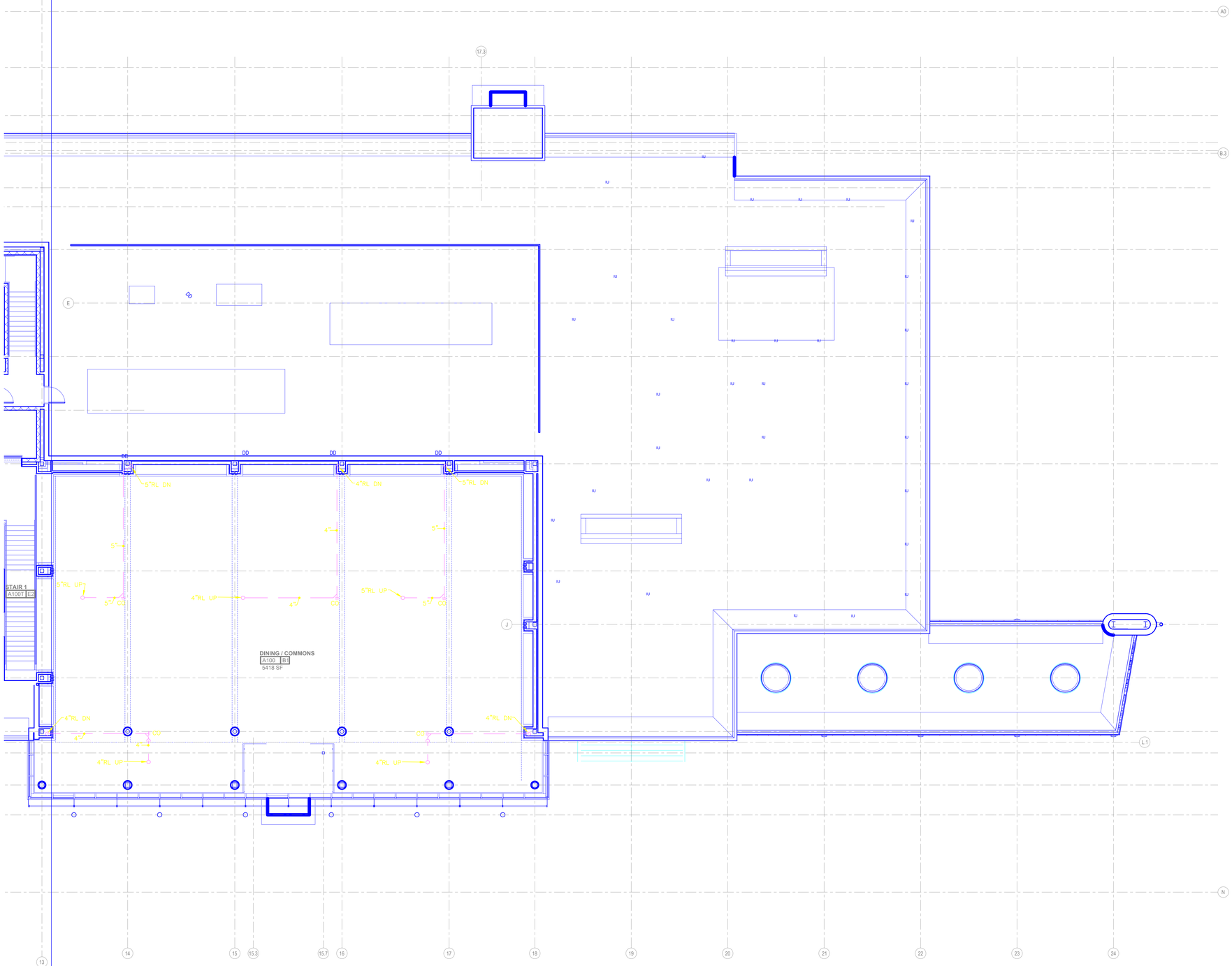
MATCHLINE PART 2 / PART 3



MATCHLINE PART 2 / PART 3

1 A-P2.2.3 SECOND FLOOR PLAN PART 3 – PLUMBING
SCALE: 1/8" = 1'-0"

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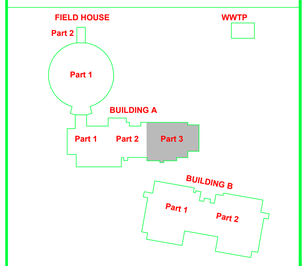

Wayland High School
Wayland, MA
SECOND FLOOR PLAN PART 3
BUILDING A
SCALE: AS NOTED
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REVISIONS NO.	DATE	REMARKS	BY

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1 / A-P2.3 OVERALL ROOF PLAN – PLUMBING

SCALE: 1/16" = 1'-0"

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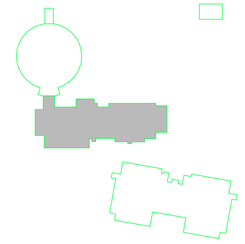
KEYPLAN



Wayland High School
Wayland, MA
OVERALL ROOF PLAN
BUILDING A

SCALE: AS NOTED | DRAWN BY: JMP | CHECKED BY: CST

REVISIONS NO.	DATE	REMARKS	BY

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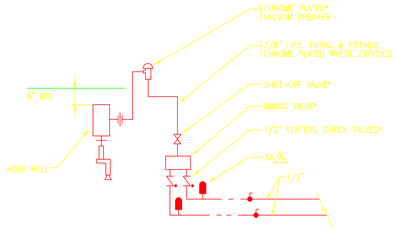
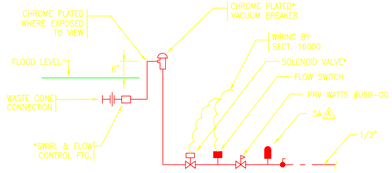
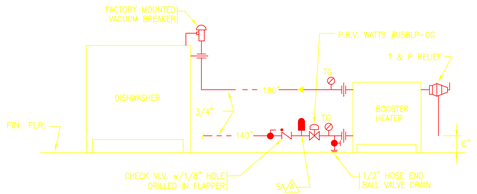


2 A-P3.1 SCHEMATIC HOSE REEL PIPING
N.T.S.
*FURNISHED WITH HOSE REEL; INSTALLED BY SECTION 220000

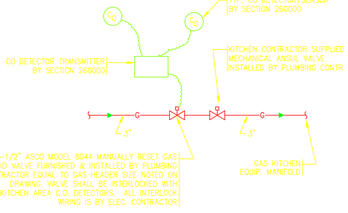


3 A-P3.1 SCHEMATIC DISPOSER WATER PIPING
N.T.S.
*FURNISHED WITH DISPOSER & INSTALLED BY SECT. 220000



4 A-P3.1 SCHEMATIC BOOSTER HEATER PIPING
N.T.S.

5 A-P3.1 SCHEMATIC W.&V. PIPING @ POTWASHING SINK
N.T.S.



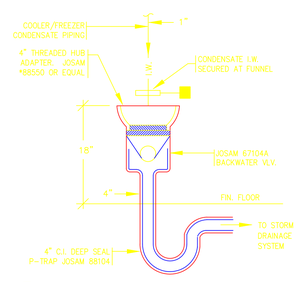
6 A-P3.1 KITCHEN GAS SOLENOID VALVE
N.T.S.

SEQUENCE OF OPERATION:

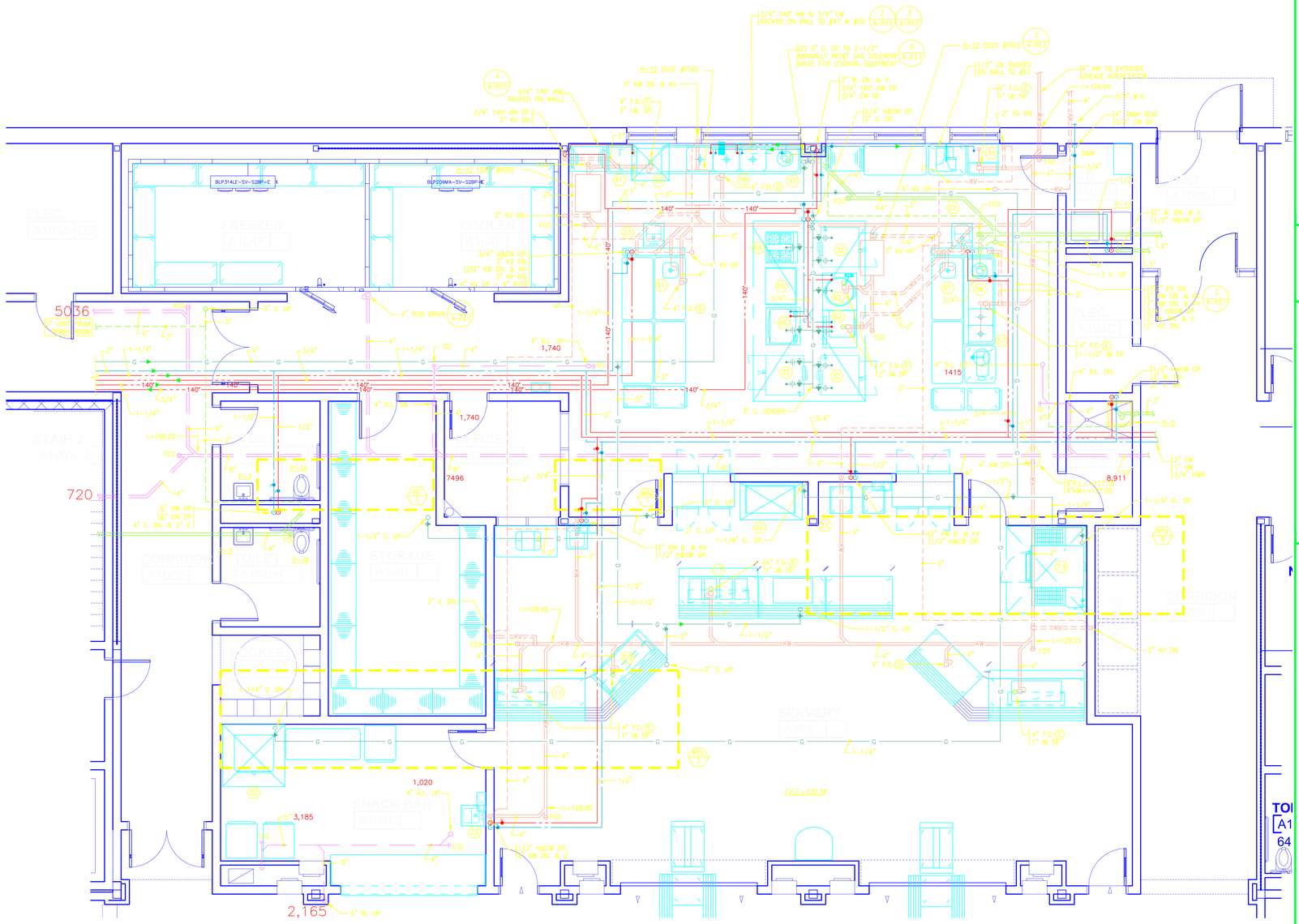
NORMAL CONDITION: SOLENOID VALVE IS OPEN & GAS FLOWING

ALARM CONDITION: DETECTOR PANEL IN ALARM & GAS SOLENOID VALVE CLOSES. SOLENOID WILL NOT FLOW UNTIL DETECTORS ARE CLEARED AND PANEL RESET. GAS VALVE MUST BE MANUALLY RESET.

LOSS OF POWER: SOLENOID VALVE IS CLOSED & FLOW OF GAS STOPPED. VALVE WILL NOT FLOW GAS UNTIL POWER IS RESTORED AND GAS VALVE IS MANUALLY RESET.



7 A-P3.1 CONDENSATE DRAIN DETAIL
N.T.S.



1 A-P3.1 KITCHEN PLAN – PLUMBING
SCALE: 1/4" = 1'-0"

CONNECTION NOTES:

1. NUMBERS INDICATED AS (41) CORRESPOND TO EQUIPMENT ON THE KITCHEN EQUIPMENT DRAWINGS.
2. SIZES SHOWN HERE ARE THE PIPE SIZES INDICATED ON THE KITCHEN EQUIPMENT DWG. SCHEDULE. ACTUAL EQUIPMENT CONNECTIONS AND PIPING SIZES TO AND FROM EQUIPMENT SHOWN IN PLAN ON THIS DWG. MAY BE LARGER OR SMALLER THAN INDICATED ON THE SCHEDULE. PROVIDE REDUCERS AND ADAPTERS TO MAKE UP FINAL CONNECTIONS TO ALL EQUIPMENT. ALL STOPS TO EQUIPMENT SHALL BE 1/2" SOLDER END BALL VALVES. THE SIZE SHOWN ON THE "REMARKS" IS THE SIZE I.W. TO BE RUN BY P.C.
3. PROVIDE WATTS SERIES 7 BACKFLOW PREVENTERS TO ALL WATER CONNECTIONS ON ALL EQUIPMENT NOT PROTECTED W/ APPROVED AIR GAPS OR VACUUM BREAKERS.
4. TO CONFORM TO MASSACHUSETTS CODE ALL INDIRECT WASTE CONNECTIONS SMALLER THAN 1-1/4"Ø SHALL BE INCREASED ONE PIPE SIZE FROM EQUIPMENT CONNECTION TO TERMINATION AT FLOOR DRAIN.

FOOD SERVICE EQUIPMENT SCHEDULE & CONNECTIONS

ITEM NO.	QTY	EQUIPMENT CATEGORY	C.W.	H.W.	140° H.W.	W.	V.	K.W.	K.V.	I.W.	GAS CONN. SIZE	GAS M./BTU	REMARKS
02	1	PIZZA SERVING COUNTER								1"			RUN INDIRECT WASTE TO FLOOR DRAIN
07	1	HOT FOOD SERVING COUNTER								1"			RUN INDIRECT WASTE TO FLOOR DRAIN
09	1	COLD SERVING COUNTER								1"			RUN INDIRECT WASTE TO FLOOR DRAIN
11	1	DELI SERVING COUNTER								1"			RUN INDIRECT WASTE TO FLOOR DRAIN
14	1	PIZZA OVEN (SINGLE DECK)									3/4"	120	PROVIDE GAS COCK & UNION
20	1	GRILLE w/REFRIGERATED BASE									3/4"	120	PROVIDE GAS COCK & UNION
23	3	HAND SINK	1/2"	1/2"				2"	2"				
25	1	COFFEE MAKER		1/4"									
32	4	DOUBLE CONVECTION OVEN									(2)¾"	(2)55	PROVIDE GAS COCK & UNION
35	1	COOLER EVAPORATOR COIL								1"			RUN INDIRECT WASTE TO FLOOR DRAIN
36	1	FREEZER EVAPORATOR COIL								1"			RUN INDIRECT WASTE TO FLOOR DRAIN
41	1	HOT WATER BOOSTER			¾"					½"			RUN INDIRECT WASTE TO FLOOR DRAIN
42	1	DISHWASHING MACHINE			¾"					2"			RUN INDIRECT WASTE TO FLOOR DRAIN
44	1	POT & PAN WASHING SINK	(2)¾"		(2)¾"			(3)2"					
45	1	HOSE REEL ASSEMBLY	1/2"	1/2"									
47	1	DISPOSER		1/2"		2"							
51	1	ICE MACHINE		1/2"		1"							
54	1	CAN WASH ASSEMBLY	1/2"	1/2"						1"			RUN INDIRECT WASTE TO FLOOR DRAIN
56	1	DISPOSER		1/2"		2"							
57	1	VEGATABLE PREP SINK	1/2"	1/2"		(2)2"							
61	1	WORKTABLE w/ SINK	1/2"	1/2"		1½"							
62	1	TILTING KETTLE	1/2"	1/2"						2"			RUN INDIRECT WASTE TO FLOOR DRAIN
63	1	TWO-COMPARTMENT STEAMER	1/2"	1/2"						2"	1"	300	PROVIDE GAS COCK & UNION
64	1	FOUR BURNER RANGE w/OVEN									1-1/4"	180	
65	1	GRILLE w/STAND									3/4"	120	PROVIDE GAS COCK & UNION
66	1	TILTING SKILLET 30 GALLON	1/2"	1/2"							3/4"	110	PROVIDE GAS COCK & UNION

* FILTERED COLD WATER
** AT PRODUCE SINK COMPARTMENTS PROVIDE SIGNAGE PER 248 CMR SECTION 10.12(1)(a)3. & 4.

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KEYPLAN

Wayland High School
Wayland, MA
KITCHEN PLAN
BUILDING A

DRAWN BY: JMP
CHECKED BY: CST
SCALE: AS NOTED

REVISIONS NO.	DATE	REMARKS	BY

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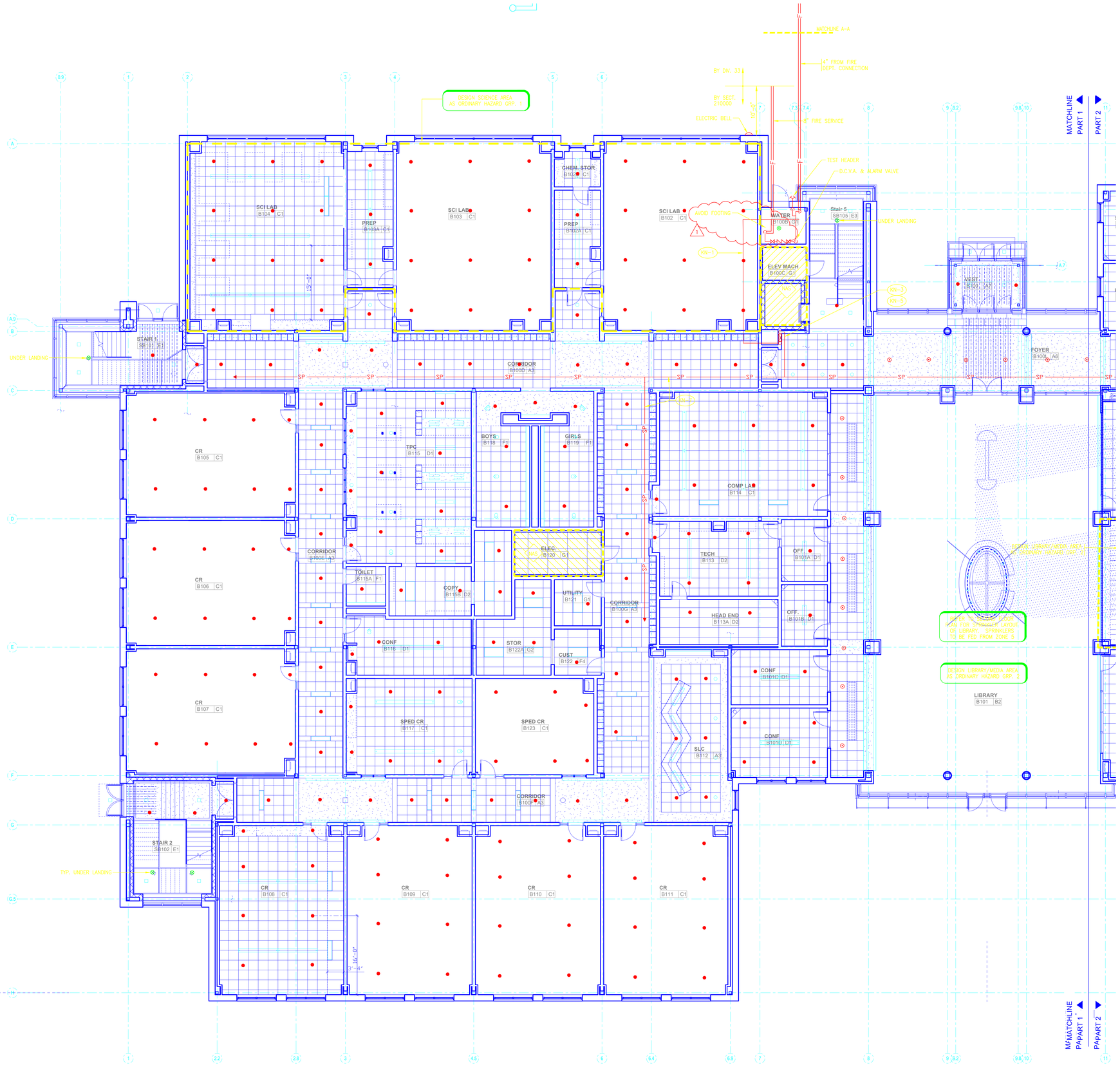
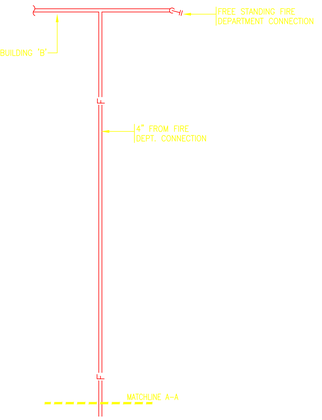


1 B FP2.1.1 BUILDING B – FIRST FLOOR PLAN PART 1 – FIRE PROTECTION
SCALE: 1/8" = 1'-0"

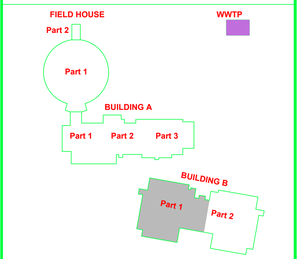


1 B FP2.1.1 PART PLAN A–A
SCALE: 1/8" = 1'-0"

FIRE PROTECTION KEY NOTES

- KN-1 FIRE DISTRIBUTION MAIN.
- KN-2 BASE OF RISER CONTROLLER CONSISTING OF VALVE w/TAMPER SWITCH, FLOW SWITCH, AND TEST ASSEMBLY.
- KN-3 SCVA TO CONTROL SPRINKLER FLOW TO DESIGNATED ZONE. REFER TO DETAIL.
- KN-4 FDVC CONSISTING OF 2-1/2" FIRE DEPT. VALVE w/2-1/2" x 1-1/2" REDUCER
- KN-5 COMBINATION RISER
- KN-6 STANDPIPE RISER
- KN-7 HYDRAULICALLY SIZED SPRINKLER MAIN TO DESIGNATED FIRE ZONE.
- KN-8 FIRE HOSE CABINET
- KN-9 FIRE DEPARTMENT CONNECTION

KEYPLAN



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Wayland High School
Wayland, MA
BUILDING B - FIRST FLOOR PLAN
PART 1 - FIRE PROTECTION
DRAWN BY:
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SCALE:

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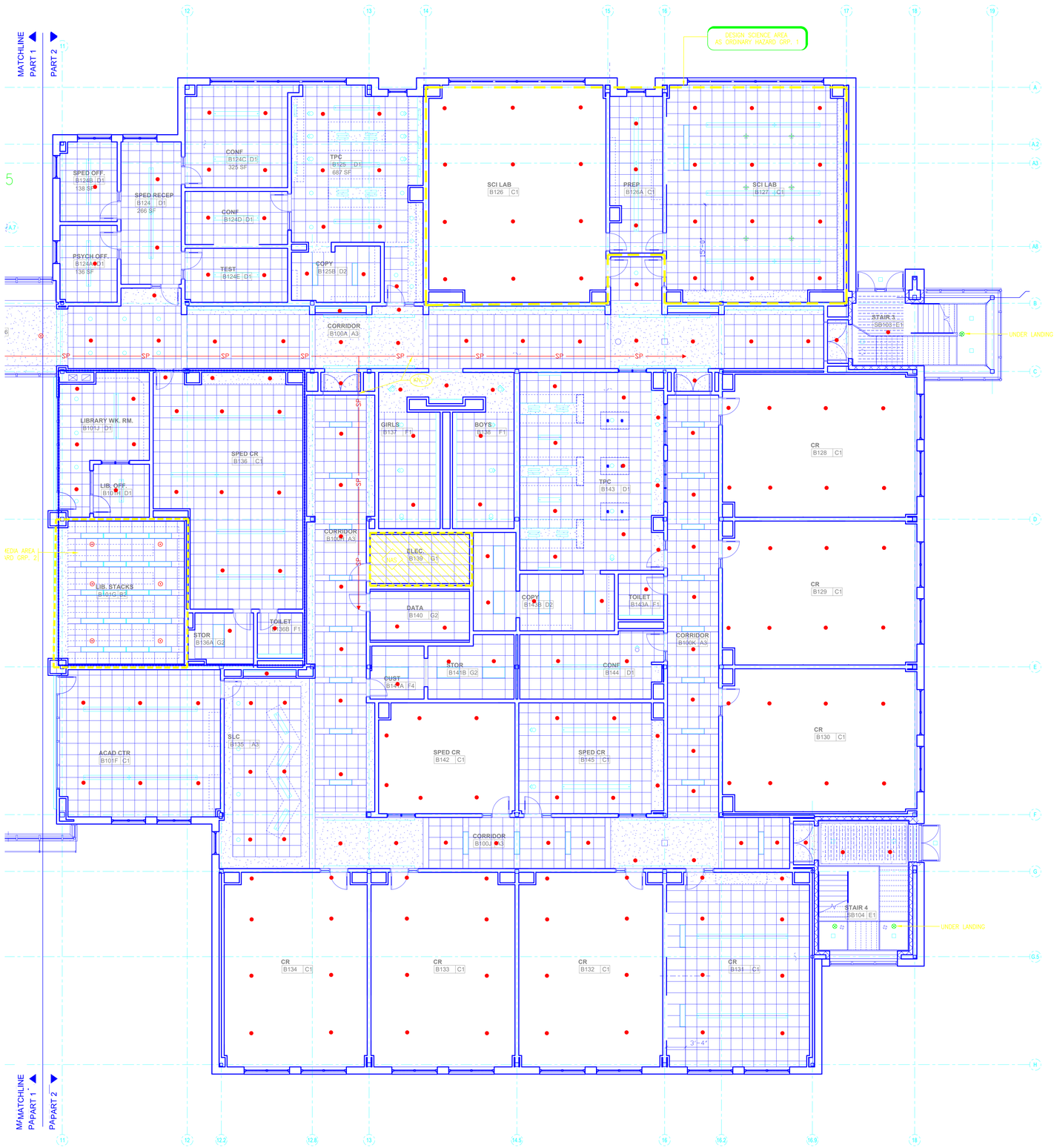
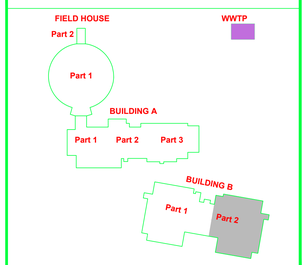


1 / B / FP2.1.2 BUILDING B – FIRST FLOOR PLAN PART 2 – FIRE PROTECTION
SCALE: 1/8" = 1'-0"

FIRE PROTECTION KEY NOTES

- KN-1 FIRE DISTRIBUTION MAIN.
- KN-2 BASE OF RISER CONTROLLER CONSISTING OF VALVE w/TAMPER SWITCH, FLOW SWITCH, AND TEST ASSEMBLY.
- KN-3 SCVA TO CONTROL SPRINKLER FLOW TO DESIGNATED ZONE. REFER TO DETAIL.
- KN-4 FDVC CONSISTING OF 2-1/2" FIRE DEPT. VALVE w/2-1/2" x 1-1/2" REDUCER
- KN-5 COMBINATION RISER
- KN-6 STANDPIPE RISER
- KN-7 HYDRAULICALLY SIZED SPRINKLER MAIN TO DESIGNATED FIRE ZONE.
- KN-8 FIRE HOSE CABINET
- KN-9 FIRE DEPARTMENT CONNECTION

KEYPLAN



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Wayland High School
Wayland, MA

BUILDING B - FIRST FLOOR PLAN
PART 2 - FIRE PROTECTION

CHECKED BY: DST
DRAWN BY:
SCALE:

REVISIONS NO.	DATE	REMARKS	BY

DRAWING NUMBER
B
FP2.1.2

JOB NUMBER 426409

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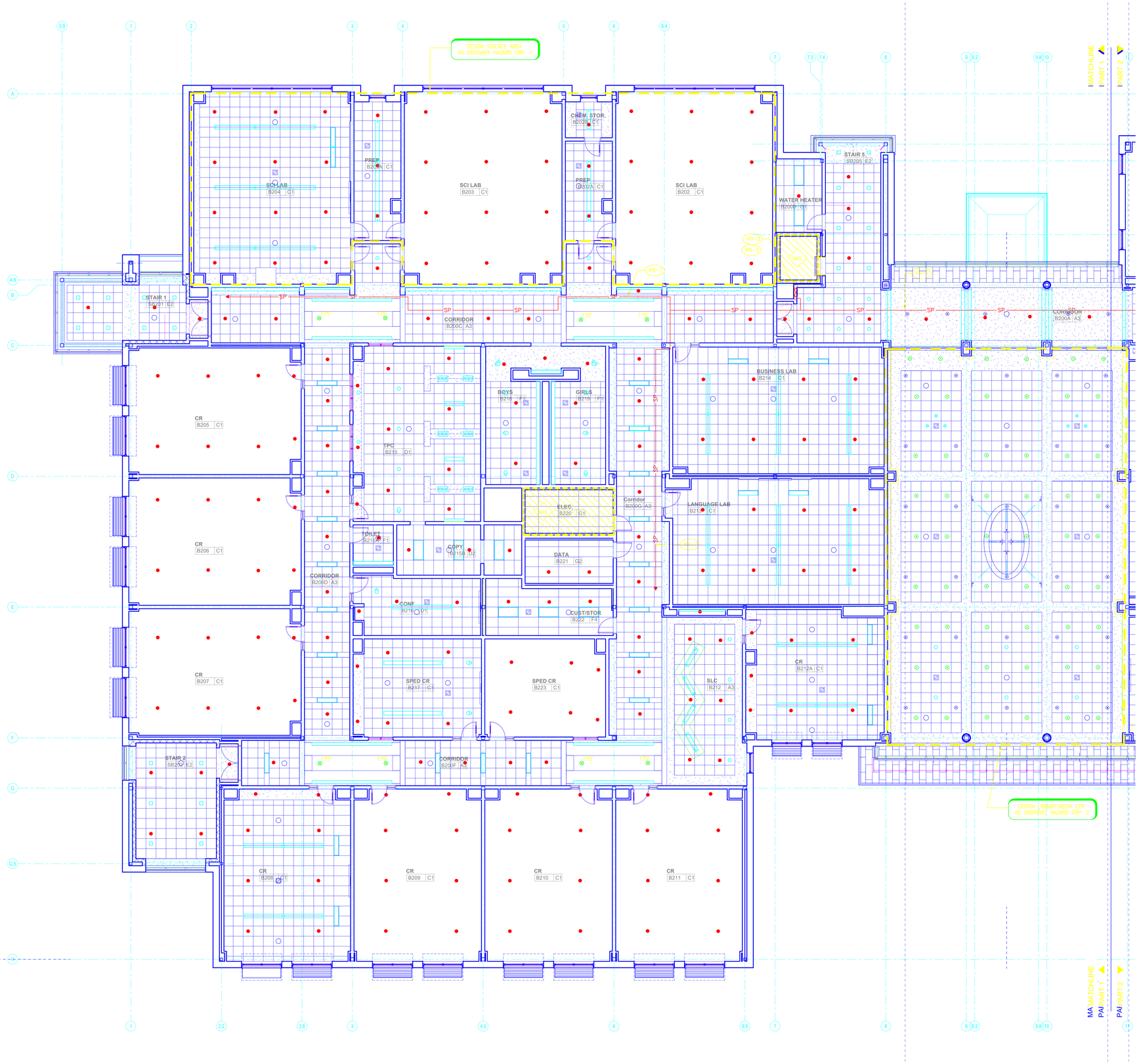

FIRE PROTECTION KEY NOTES

- KN–1 FIRE DISTRIBUTION MAIN.
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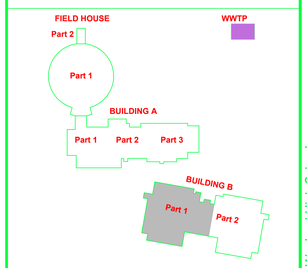
- KN–9 FIRE DEPARTMENT CONNECTION

KEYPLAN



1 B FP2.1.1 BUILDING B – SECOND FLOOR PLAN PART 1 – FIRE PROTECTION
SCALE: 1/8" = 1'-0"

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Wayland High School
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BUILDING B - SECOND FLOOR
PLAN PART 1 - FIRE PROT.
SCALE:
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REVISIONS NO.	DATE	REMARKS	BY

DRAWING NUMBER
B
FP2.2.1

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1 B-P2.0.1 BELOW SLAB PLAN PART 1 – PLUMBING
SCALE: 1/8" = 1'-0"

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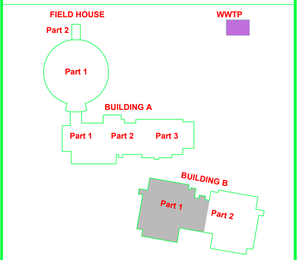

Wayland High School
Wayland, MA
BELOW SLAB PLAN PART 1
BUILDING B
SCALE: AS NOTED
DRAWN BY: JMP
CHECKED BY: CST

REVISIONS NO.	DATE	REMARKS	BY

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B-P2.0.1

JOB NUMBER 426409

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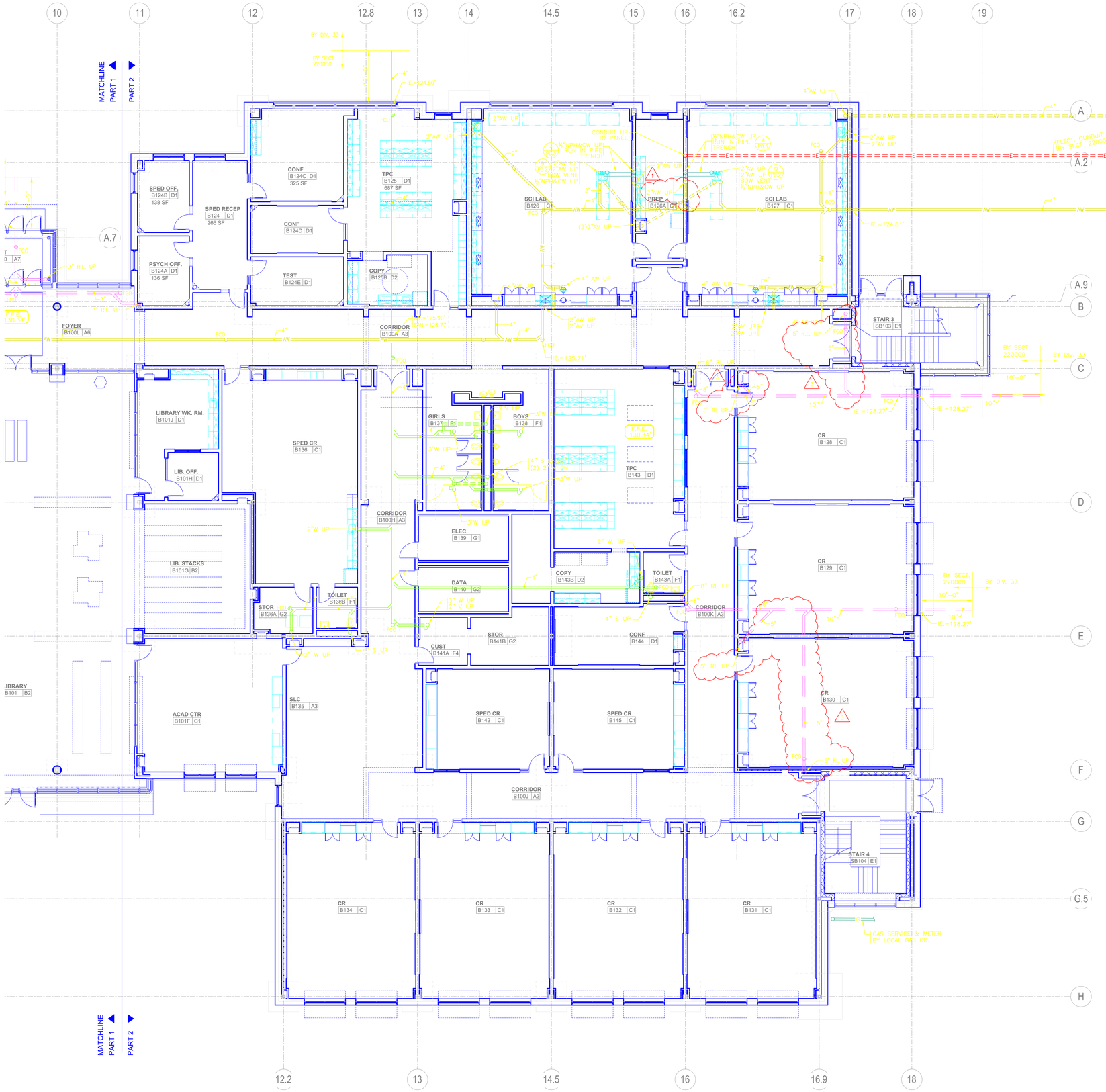

1 B-P2.0.2 BELOW SLAB PLAN PART 2 – PLUMBING
SCALE: 1/8" = 1'-0"

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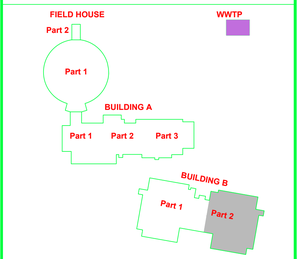

Wayland High School
Wayland, MA
BELOW SLAB PLAN PART 2
BUILDING B
SCALE: AS NOTED
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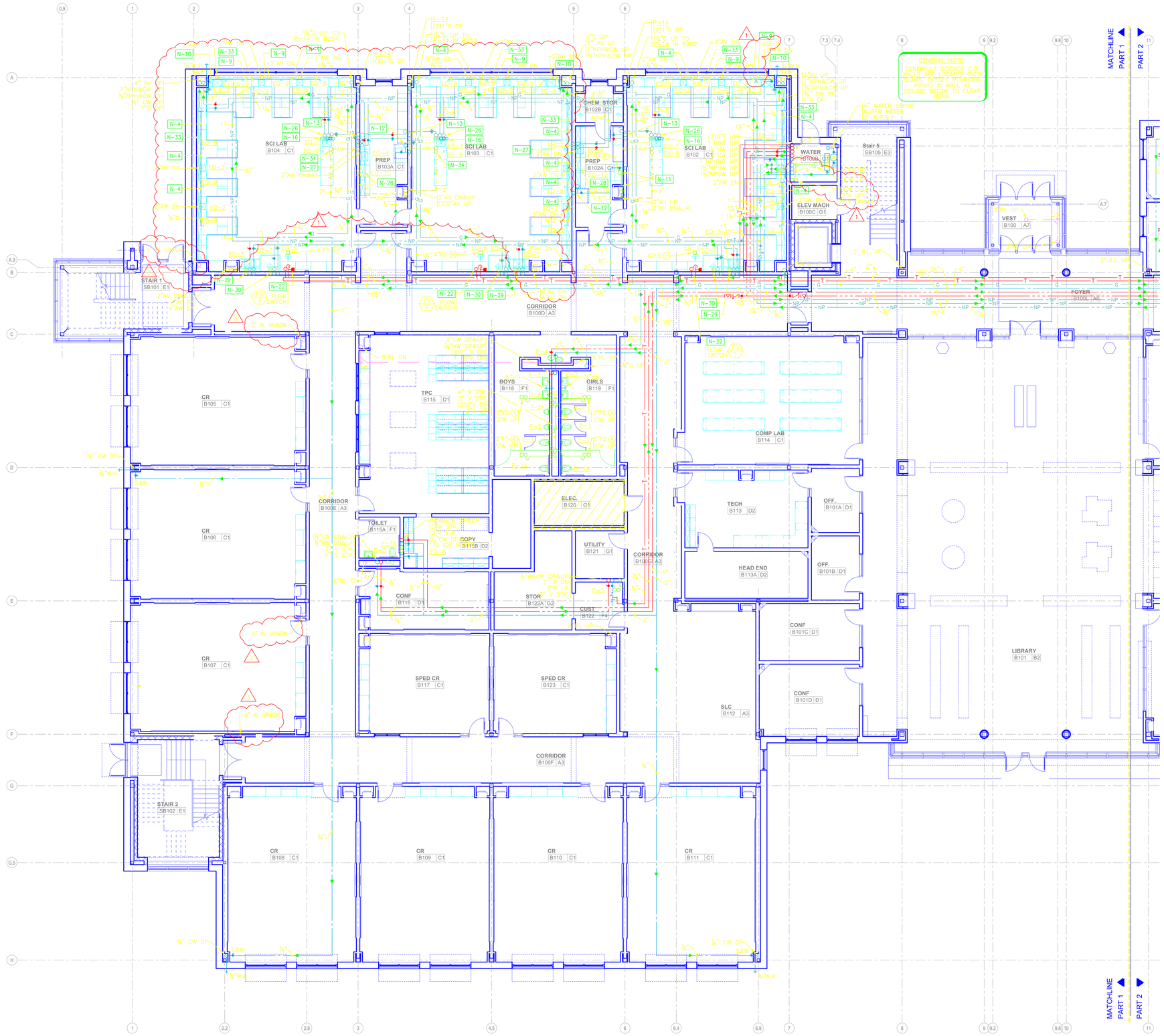

1 B-P2.1.1 FIRST FLOOR PLAN PART 1 – PLUMBING
SCALE: 1/8" = 1'-0"

SCIENCE KEY NOTES:

N-1 REFER TO DETAIL 3 ON DRAWING P0.3. ½" NPHW & ½" NPCW

N-2 REFER TO DETAIL 3 ON DRAWING P0.3. 2" AV, ¾" NPHW & ¾" NPCW

N-3 REFER TO DETAIL 3 ON DRAWING P0.3. 2" AV, ½" NPHW & ½" NPCW

N-4 REFER TO DETAIL 3 ON DRAWING P0.3. ¾"G, ½" NPHW & ½" NPCW

N-5 REFER TO DETAIL 3 ON DRAWING P0.3. ¾"G, ¾" NPHW & ¾" NPCW

N-6 REFER TO DETAIL 3 ON DRAWING P0.3. 1"G, ¾" NPHW & ¾" NPCW

N-7 REFER TO DETAIL 3 ON DRAWING P0.3. 2"AV, 1"G, ½" NPHW & ½" NPCW

N-8 REFER TO DETAIL 3 ON DRAWING P0.3. 2"AV, 1"G, ¾" NPHW & ¾" NPCW

N-9 REFER TO DETAIL 3 ON DRAWING P0.3. 2"AV, ¾"G, ½" NPHW & ½" NPCW

N-10 REFER TO DETAIL 3 ON DRAWING P0.3. 2"AV, ¾"G, ¾" NPHW & ¾" NPCW

N-11 ICE MACHINE PIPE (2)1" TW TO 4" FLOOR DRAIN TYPE E; (2) ½"CW CONNECTIONS, 4" W DN & 2"V UP & ¾"CW UP & DP.

N-12 ¾"CW DP TO ICE-MAKER; ½"CW UP IN CABINET BASE TO CLEAR BEAM.

N-13 ¾"G, ½" NPHW & ½" NPCW DN INTO RPPE TRENCH. REFER TO DETAIL 4 ON DWG P0.3

N-14 ¾"CW DP TO ICE-MAKER; OFFSET ½"CW DN IN CABINET BASE TO CLEAR BEAM.

N-15 ¾"G DN IN CABINET BASE TO CLEAR BEAM & UP THRU FLOOR, OFFSET GAS TO INSTRUCTOR'S BENCH & RISE.

N-16 REFER TO DETAIL 9 ON DRAWING P0.2. 2"AV DN, 2"AW DN, BOW VENT, ¾"G DN, ½" NPHW DN & ½" NPCW DN. COORDINATE LOCATION OF UTILITIES TO MAINTAIN ACCESSIBILITY.

N-17 (E)1¼ MASTER GAS VALVE BOX – (2)1¼"G DP OFFSET (1)1¼" G DN IN CABINET BASE THRU FLOOR TO CLEAR BEAM BELOW.

N-18 ACID WASTE & ACID VENT PIPING ABOVE CEILING BELOW, SHOWN ON SECOND FLOOR FOR CLARITY.

N-19 REFER TO DETAIL 9 ON DRAWING P0.2. 2"AV DN, 2"AW DN, BOW VENT, ½" NPHW DN & ½" NPCW DN. COORDINATE LOCATION OF UTILITIES TO MAINTAIN ACCESSIBILITY.

N-20 ½" NPHW & ½" NPCW DN INTO PIPE TRENCH. REFER TO DETAIL 4 ON DWG P0.3

N-21 REFER TO DETAIL 9 ON DRAWING P0.2. 2"AV DN, 2"AW DN, BOW VENT, ½" NPHW DN & ½" NPCW DN. COORDINATE LOCATION OF UTILITIES TO MAINTAIN ACCESSIBILITY.

N-22 ¾"T UP THRU FLOOR TO BASE CABINET OF SAFETY CABINET ABOVE. 1¼"T DP TO EQ-6

N-23 1¼"T DN THRU FLOOR. 1¼"T DP TO EQ-6

N-24 ½" NPHW & ½" NPCW DN INTO PIPE TRENCH. REFER TO DETAIL 4 ON DWG P0.3

N-25 ½" NPHW & ½" NPCW DN INTO PIPE TRENCH. REFER TO DETAIL 4 ON DWG P0.3. ½"NPH&CW UP THRU FLOOR TO CABINET BASE.

N-26 ¾"G UP, ½" NPHW UP & ½" NPCW UP TO EQ-1.

N-27 2" NPHW&NPCW DP & ½"NPHW&NPCW UP THRU FLOOR INTO CABINET BASE.

N-28 AT EQ-6 DISHWASHER PROVIDE ½"NPHW VALVED CONNECTION FROM THE EQ-4 & A ½" PRESSURE WASTE CONNECTION TO EQ-4

N-29 2"AW DN& 2"AV OFFSET & UP, ½"NPHW&NPCW UP, RUN AV & NPH&CW UP THRU FLOOR INTO CABINET BASE & ½"NPHW&NPCW DP.

N-30 2"AW DN& 2"AV OFFSET & UP, ½"NPCW UP, RUN AV & NPCW UP THRU FLOOR INTO CABINET BASE & ½"NPHW&NPCW DP.

N-31 2"AW DN & OFFSET 2"AV INTO WALL, ½"NPCW DN IN CASEWORK TO CLEAR BEAM, ¾"G DP.

N-32 2"AW DN & OFFSET 2"AV INTO WALL, ½"NPHW&NPCW DN IN CASEWORK TO CLEAR BEAM.

N-33 SINGLE LINE OF PIPING INDICATES MULTIPLE PIPES, RACKED ON UNISTRUT. REFER TO REFERENCE NOTES FOR PIPING & SIZES AND DETAIL 3 ON DRAWING P0.3

N-34 2"AV UP, 2"AW UP, BOW VENT & 2"AW DN, ¾"G UP & ¾"G UP IN PREP RM.

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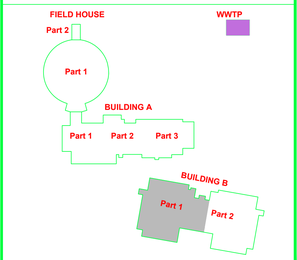
09/03/2010

KEYPLAN



Wayland High School
Wayland, MA
FIRST FLOOR PLAN PART 1
BUILDING B
SCALE: AS NOTED
DRAWN BY: JMP
CHECKED BY: CST

REVISIONS NO.	DATE	REMARKS	BY

DRAWING NUMBER
B-P2.1.1

JOB NUMBER 834409

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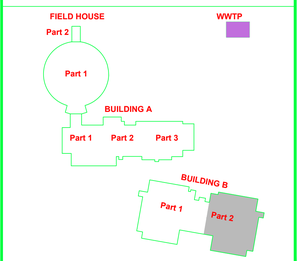
FIRST FLOOR PLAN PART 2 – PLUMBING

1 B-P2.1.2 SCALE: 1/8" = 1'-0"

SCIENCE KEY NOTES:

- N–1 REFER TO DETAIL 3 ON DRAWING P0.3. ½" NPHW & ½" NPCW.
- N–2 REFER TO DETAIL 3 ON DRAWING P0.3. 2" AV, ¾" NPHW & ¾" NPCW
- N–3 REFER TO DETAIL 3 ON DRAWING P0.3. 2" AV, ½" NPHW & ½" NPCW
- N–4 REFER TO DETAIL 3 ON DRAWING P0.3. ¾"G, ½" NPHW & ½" NPCW
- N–5 REFER TO DETAIL 3 ON DRAWING P0.3. ¾"G, ¾" NPHW & ¾" NPCW
- N–6 REFER TO DETAIL 3 ON DRAWING P0.3. 1"G, ¾" NPHW & ¾" NPCW
- N–7 REFER TO DETAIL 3 ON DRAWING P0.3. 2"AV, 1"G, ½" NPHW & ½" NPCW
- N–8 REFER TO DETAIL 3 ON DRAWING P0.3. 2"AV, 1"G, ¾" NPHW & ¾" NPCW
- N–9 REFER TO DETAIL 3 ON DRAWING P0.3. 2"AV, ¾"G, ½" NPHW & ½" NPCW
- N–10 REFER TO DETAIL 3 ON DRAWING P0.3. 2"AV, ¾"G, ¾" NPHW & ¾" NPCW
- N–11 ICE MACHINE PIPE (2)1" IW TO 4" FLOOR DRAIN TYPE E; (2) ½"CW CONNECTIONS. 4" W DN & 2"V UP & ½"CW UP & DP.
- N–12 ½"CW DP TO ICE–MAKER; ½"CW UP IN CABINET BASE TO CLEAR BEAM.
- N–13 ¾"G, ½" NPHW & ½" NPCW DN INTO PIPE TRENCH. REFER TO DETAIL 4 ON DWG P0.3
- N–14 ½"CW DP TO ICE–MAKER; OFFSET ½"CW DN IN CABINET BASE TO CLEAR BEAM.
- N–15 ¾"G DN IN CABINET BASE TO CLEAR BEAM & DN THRU FLOOR. OFFSET GAS TO INSTRUCTOR'S BENCH & RISE.
- N–16 REFER TO DETAIL 9 ON DRAWING P0.2. 2"AV DN, 2"AW DN, BOW VENT, ¾"G DN, ½" NPHW DN & ½" NPCW DN.; COORDINATE LOCATION OF UTILITIES TO MAINTAIN ACCESSIBILITY.
- N–17 P–14 MASTER GAS VALVE BOX – (2)1¼"G DP OFFSET (1)1¼" G DN IN CABINET BASE THRU FLOOR TO CLEAR BEAM BELOW.
- N–18 ACID WASTE & ACID VENT PIPING ABOVE CEILING BELOW. SHOWN ON SECOND FLOOR FOR CLARITY.
- N–19 REFER TO DETAIL 9 ON DRAWING P0.2. 2"AV DN, 2"AW DN, BOW VENT, ½" NPHW DN & ½" NPCW DN. COORDINATE LOCATION OF UTILITIES TO MAINTAIN ACCESSIBILITY.
- N–20 ½" NPHW & ½" NPCW DN INTO PIPE TRENCH. REFER TO DETAIL 4 ON DWG P0.3
- N–21 REFER TO DETAIL 9 ON DRAWING P0.2. 2"AV DN, 2"AW DN, BOW VENT, ½" NPHW DN & ½" NPCW DN. COORDINATE LOCATION OF UTILITIES TO MAINTAIN ACCESSIBILITY.
- N–22 1¼"T UP THRU FLOOR TO BASE CABINET OF SAFETY CABINET ABOVE. 1¼"T DP TO EQ–6
- N–23 1¼"T DN THRU FLOOR. 1¼"T DP TO EQ–6
- N–24 ½" NPHW & ½" NPCW DN INTO PIPE TRENCH. REFER TO DETAIL 4 ON DWG P0.3
- N–25 ½" NPHW & ½" NPCW DN INTO PIPE TRENCH. REFER TO DETAIL 4 ON DWG P0.3. ½"NPH&CW UP THRU FLOOR TO CABINET BASE.
- N–26 ¾"G UP, ½" NPHW UP & ½" NPCW UP TO EQ–1.
- N–27 ½" NPHW&NPCW DP & ½"NPHW&NPCW UP THRU FLOOR INTO CABINET BASE.
- N–28 AT EQ–6 DISHWASHER PROVIDE ½"NPHW VALVED CONNECTION FROM THE EQ–4 & A ½" PRESSURE WASTE CONNECTION TO EQ–4
- N–29 2"AW DN&, 2"AV OFFSET & UP, ½"NPHW&NPCW UP, RUN AV & NPHW&CW UP THRU FLOOR INTO CABINET BASE & ½"NPHW&NPCW DP
- N–30 2"AW DN& 2"AV OFFSET & UP, ½"NPCW UP, RUN AV & NPCW UP THRU FLOOR INTO CABINET BASE & ½"NPHW&NPCW DP
- N–31 2"AW DN & OFFSET 2"AV INTO WALL. ½"NPCW DN IN CASEWORK TO CLEAR BEAM. ¾"G DP.
- N–32 2"AW DN & OFFSET 2"AV INTO WALL. ½"NPH&NPCW DN IN CASEWORK TO CLEAR BEAM.
- N–33 SINGLE LINE OF PIPING INDICATES MULTIPLE PIPES RACKED ON UNISTRUT. REFER TO REFERENCE NOTES FOR PIPING & SIZES AND DETAIL 3, ON DRAWING P0.3
- N–34 2"AV UP, 2"AW UP, BOW VENT & 2"AW DN, ¾"G UP & ¾"G UP IN PREP RM.

KEYPLAN



REVISIONS NO.	DATE	REMARKS	BY

DRAWING NUMBER B-P2.1.2

BID SET 09/03/2010

Wayland High School
Wayland, MA
FIRST FLOOR PLAN PART 2
BUILDING B

SCALE: AS NOTED DRAWN BY: JMP CHECKED BY: CST

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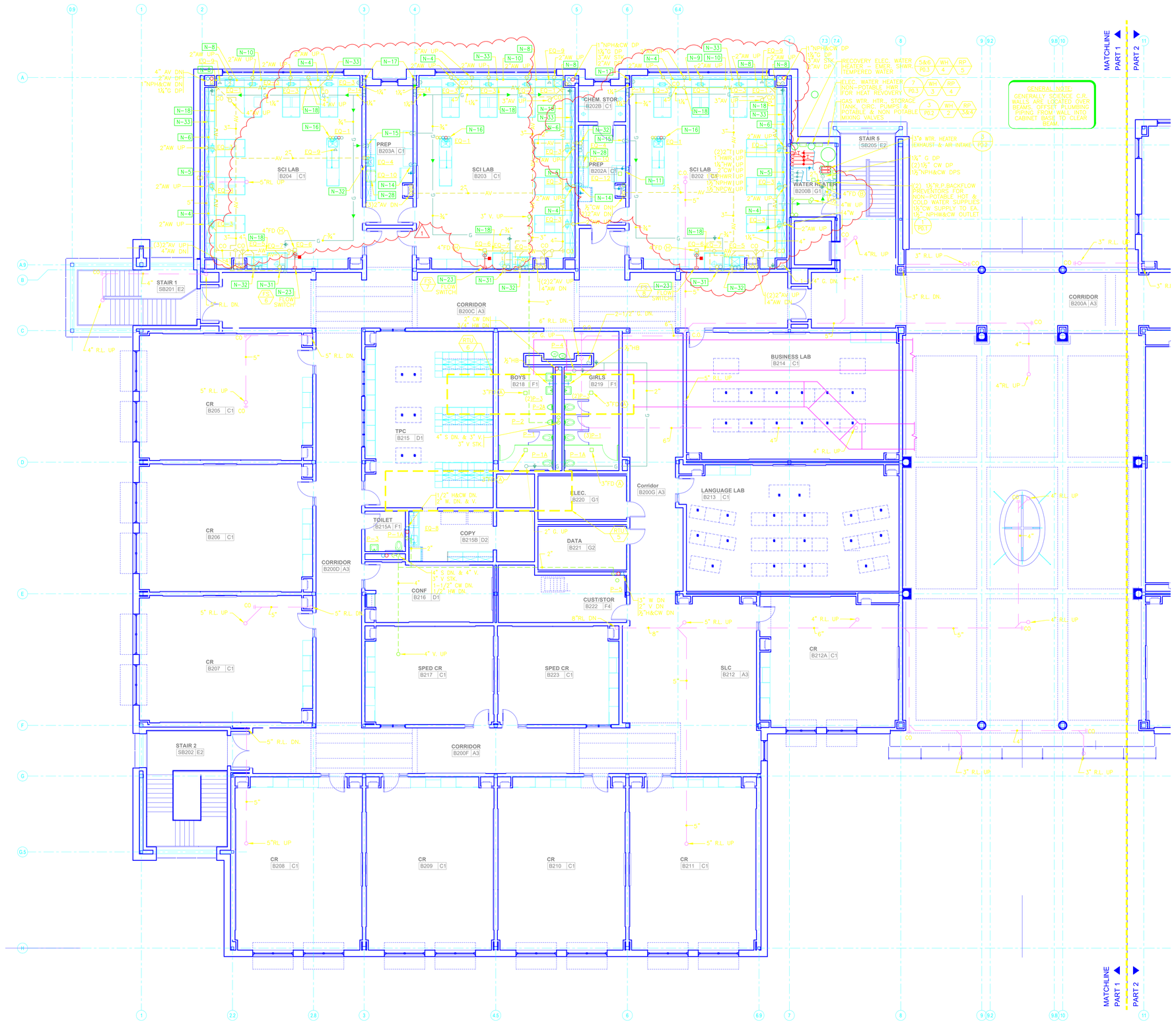

1 SECOND FLOOR PLAN PART 1 – PLUMBING
B-P2.2.1 SCALE: 1/8" = 1'-0"

SCIENCE KEY NOTES:

- N-1 REFER TO DETAIL 3 ON DRAWING P0.3, ½" NPHW & ½" NPCW
- N-2 REFER TO DETAIL 3 ON DRAWING P0.3, 2" AV, ¾" NPHW & ¾" NPCW
- N-3 REFER TO DETAIL 3 ON DRAWING P0.3, 2" AV, ½" NPHW & ½" NPCW
- N-4 REFER TO DETAIL 3 ON DRAWING P0.3, ¾"G, ½" NPHW & ½" NPCW
- N-5 REFER TO DETAIL 3 ON DRAWING P0.3, ¾"G, ¾" NPHW & ¾" NPCW
- N-6 REFER TO DETAIL 3 ON DRAWING P0.3, 1"G, ¾" NPHW & ¾" NPCW
- N-7 REFER TO DETAIL 3 ON DRAWING P0.3, 2"AV, 1"G, ¾" NPHW & ½" NPCW
- N-8 REFER TO DETAIL 3 ON DRAWING P0.3, 2"AV, 1"G, ¾" NPHW & ½" NPCW
- N-9 REFER TO DETAIL 3 ON DRAWING P0.3, 2"AV, ¾"G, ½" NPHW & ½" NPCW
- N-10 REFER TO DETAIL 3 ON DRAWING P0.3, 2"AV, ¾"G, ¾" NPHW & ¾" NPCW
- N-11 ICE MACHINE PIPE (2)1" IW TO 4" FLOOR DRAIN TYPE E; (2) ¾"CW CONNECTIONS, 4" W DN & 2"V UP & ½"CW UP & DP.
- N-12 ¾"CW DP TO ICE-MAKER; ¾"CW UP IN CABINET BASE TO CLEAR BEAM.
- N-13 ¾"G, ½" NPHW & ½" NPCW DN INTO PIPE TRENCH. REFER TO DETAIL 4 ON DWG P0.3
- N-14 ¾"CW DP TO ICE-MAKER; OFFSET ½"CW DN IN CABINET BASE TO CLEAR BEAM.
- N-15 ¾"G DN IN CABINET BASE TO CLEAR BEAM & UN THRU FLOOR; OFFSET GAS TO INSTRUCTOR'S BENCH & RISE.
- N-16 REFER TO DETAIL 9 ON DRAWING P0.2, 2"AV DN, 2"AW DN, BOW VENT, ½"G DN, ½" NPHW DN & ½" NPCW DN; COORDINATE LOCATION OF UTILITIES TO MAINTAIN ACCESSIBILITY.
- N-17 EQ-14 MASTER GAS VALVE BOX – (2)1¼"G DP OFFSET (3)1¼" G. DN IN CABINET BASE THRU FLOOR TO CLEAR BEAM BELOW.
- N-18 ACID WASTE & ACID VENT PIPING ABOVE CEILING BELOW; SHOWN ON SECOND FLOOR FOR CLARITY.
- N-19 REFER TO DETAIL 9 ON DRAWING P0.2, 2"AV DN, 2"AW DN, BOW VENT, ½" NPHW DN & ½" NPCW DN; COORDINATE LOCATION OF UTILITIES TO MAINTAIN ACCESSIBILITY.
- N-20 ½" NPHW & ½" NPCW DN INTO PIPE TRENCH. REFER TO DETAIL 4 ON DWG P0.3
- N-21 REFER TO DETAIL 9 ON DRAWING P0.2, 2"AV DN, 2"AW DN, BOW VENT, ½" NPHW DN & ½" NPCW DN; COORDINATE LOCATION OF UTILITIES TO MAINTAIN ACCESSIBILITY.
- N-22 1½"T UP THRU FLOOR TO BASE CABINET OF SAFETY CABINET ABOVE. 1¼"T DP TO EQ-6
- N-23 1¼"T DN THRU FLOOR. 1¼"T DP TO EQ-6
- N-24 ½" NPHW & ½" NPCW DN INTO PIPE TRENCH. REFER TO DETAIL 4 ON DWG P0.3
- N-25 ½" NPHW & ½" NPCW DN INTO PIPE TRENCH. REFER TO DETAIL 4 ON DWG P0.3, ½"NPH&CW UP THRU FLOOR TO CABINET BASE.
- N-26 ¾"G UP, ½" NPHW UP & ½" NPCW UP TO EQ-1.
- N-27 ½" NPHW&NPCW DP & ½"NPHW&NPCW UP THRU FLOOR INTO CABINET BASE.
- N-28 AT EQ-6 DISHWASHER PROVIDE ½"NPHW VALVED CONNECTION FROM THE EQ-4 & A ½" PRESSURE WASTE CONNECTION TO EQ-4
- N-29 2"AW DN& 2"AV OFFSET & UP, ½"NPHW&NPCW UP, RUN AV & NPH&CW UP THRU FLOOR INTO CABINET BASE & ½"NPHW&NPCW DP
- N-30 2"AW DN& 2"AV OFFSET & UP, ½"NPCW UP, RUN AV & NPCW UP THRU FLOOR INTO CABINET BASE & ½"NPHW&NPCW DP
- N-31 2"AW DN & OFFSET 2"AV INTO WALL, ½"NPCW DN IN CASEWORK TO CLEAR BEAM, ½"G DP.
- N-32 2"AW DN & OFFSET 2"AV INTO WALL, ½"NPHW&NPCW DN IN CASEWORK TO CLEAR BEAM.
- N-33 SINGLE LINE OF PIPING INDICATES MULTIPLE PIPES RACKED ON UNISTRUT; REFER TO REFERENCE NOTES FOR PIPING & SIZES AND DETAIL 3 ON DRAWING P0.3

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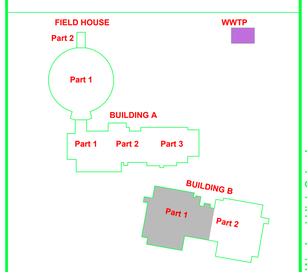

Wayland High School
Wayland, MA
SECOND FLOOR PLAN PART 1
BUILDING B
SCALE: AS NOTED
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B-P2.2.1

JOB NUMBER 826409

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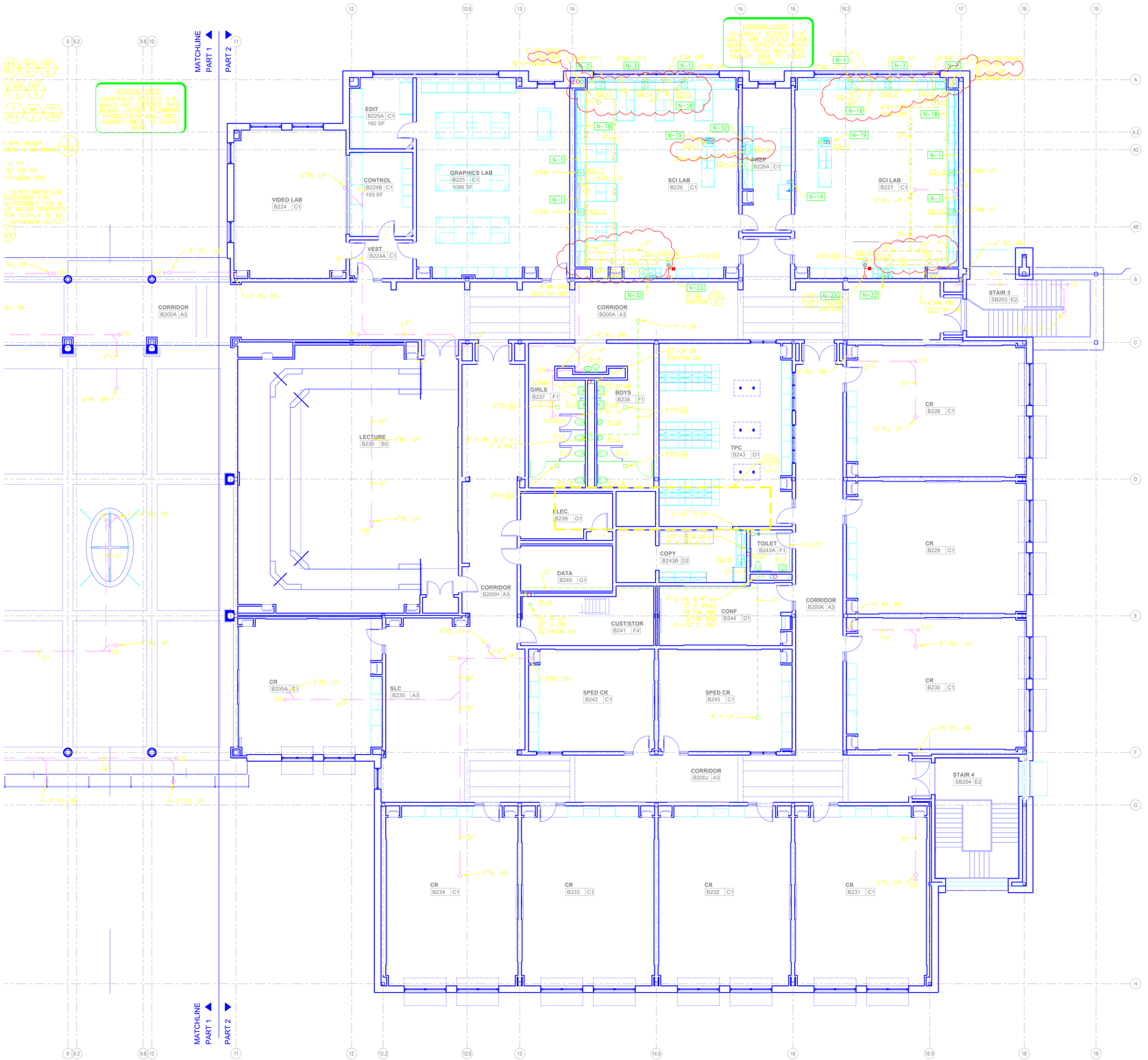

1 B-P2.2.2 SECOND FLOOR PLAN PART 2 – PLUMBING
SCALE: 1/8" = 1'-0"

SCIENCE KEY NOTES:

- N–1 REFER TO DETAIL 3 ON DRAWING P0.3. ½" NPHW & ½" NPCW
- N–2 REFER TO DETAIL 3 ON DRAWING P0.3. 2" AV, ¾" NPHW & ¾" NPCW
- N–3 REFER TO DETAIL 3 ON DRAWING P0.3. 2" AW, ½" NPHW & ½" NPCW
- N–4 REFER TO DETAIL 3 ON DRAWING P0.3. ¾"G, ½" NPHW & ½" NPCW
- N–5 REFER TO DETAIL 3 ON DRAWING P0.3. ¾"G, ¾" NPHW & ¾" NPCW
- N–6 REFER TO DETAIL 3 ON DRAWING P0.3. 1"G, ¾" NPHW & ¾" NPCW
- N–7 REFER TO DETAIL 3 ON DRAWING P0.3. 2"AV, 1"G, ½" NPHW & ½" NPCW
- N–8 REFER TO DETAIL 3 ON DRAWING P0.3. 2"AV, 1"G, ¾" NPHW & ¾" NPCW
- N–9 REFER TO DETAIL 3 ON DRAWING P0.3. 2"AV, ¾"G, ½" NPHW & ½" NPCW
- N–10 REFER TO DETAIL 3 ON DRAWING P0.3. 2"AV, ¾"G, ¾" NPHW & ¾" NPCW
- N–11 ICE MACHINE PIPE (2)1" W TO 4" FLOOR DRAIN TYPE E; (2) ½"CW CONNECTIONS. 4" W DN & 2"V UP & ½"CW UP & DP.
- N–12 ½"CW DP TO ICE-MAKER; ½"CW UP IN CABINET BASE TO CLEAR BEAM.
- N–13 ¾"G, ½" NPHW & ½" NPCW DN INTO PIPE TRENCH. REFER TO DETAIL 4 ON DWG P0.3
- N–14 ½"CW DP TO ICE-MAKER; OFFSET ½"CW DN IN CABINET BASE TO CLEAR BEAM.
- N–15 ¾"G DN IN CABINET BASE TO CLEAR BEAM & DN THRU FLOOR, OFFSET GAS TO INSTRUCTOR'S BENCH & RISE.
- N–16 REFER TO DETAIL 9 ON DRAWING P0.2. 2"AV DN, 2"AW DN, BOW VENT, ¾"G DN, ½" NPHW DN & ½" NPCW DN. COORDINATE LOCATION OF UTILITIES TO MAINTAIN ACCESSIBILITY.
- N–17 P–14 MASTER GAS VALVE BOX – (2)1½"G DP OFFSET (1)1½"G DN IN CABINET BASE THRU FLOOR TO CLEAR BEAM BELOW.
- N–18 ACID WASTE & ACID VENT PIPING ABOVE CEILING BELOW. SHOWN ON SECOND FLOOR FOR CLARITY.
- N–19 REFER TO DETAIL 9 ON DRAWING P0.2. 2"AV DN, 2"AW DN, BOW VENT, ½" NPHW DN & ½" NPCW DN. COORDINATE LOCATION OF UTILITIES TO MAINTAIN ACCESSIBILITY.
- N–20 ½" NPHW & ½" NPCW DN INTO PIPE TRENCH. REFER TO DETAIL 4 ON DWG P0.3
- N–21 REFER TO DETAIL 9 ON DRAWING P0.2. 2"AV DN, 2"AW DN, BOW VENT, ½" NPHW DN & ½" NPCW DN. COORDINATE LOCATION OF UTILITIES TO MAINTAIN ACCESSIBILITY.
- N–22 ½"T UP THRU FLOOR TO BASE CABINET OF SAFETY CABINET ABOVE. 1¼"T DP TO EQ–6
- N–23 1¼"T DN THRU FLOOR. 1¼"T DP TO EQ–6
- N–24 ½" NPHW & ½" NPCW DN INTO PIPE TRENCH. REFER TO DETAIL 4 ON DWG P0.3
- N–25 ¾" NPHW & ¾" NPCW DN INTO PIPE TRENCH. REFER TO DETAIL 4 ON DWG P0.3. ½"NPHW&CW UP THRU FLOOR TO CABINET BASE.
- N–26 ¾"G UP, ½" NPHW UP & ½" NPCW UP TO EQ–1
- N–27 ¾" NPHW&NPCW DP & ½"NPHW&NPCW UP THRU FLOOR INTO CABINET BASE.
- N–28 AT EQ–6 DISHWASHER PROVIDE ½"NPHW VALVED CONNECTION FROM THE EQ–4 & A ½" PRESSURE WASTE CONNECTION TO EQ–4
- N–29 2"AW DN& 2"AV OFFSET & UP, ½"NPHW&NPCW UP, RUN AV & NPH&CW UP THRU FLOOR INTO CABINET BASE & ½"NPHW&NPCW DP.
- N–30 2"AW DN& 2"AV OFFSET & UP, ½"NPCW UP, RUN AV & NPCW UP THRU FLOOR INTO CABINET BASE & ½"NPHW&NPCW DP
- N–31 2"AW DN & OFFSET 2"AV INTO WALL, ½"NPCW DN IN CASEWORK TO CLEAR BEAM, ½"G DP.
- N–32 2"AW DN & OFFSET 2"AV INTO WALL. ½"NPHW&NPCW DN IN CASEWORK TO CLEAR BEAM.
- N–33 SINGLE LINE OF PIPING INDICATES MULTIPLE PIPES RACKED ON UNISTRUT. REFER TO REFERENCE NOTES FOR PIPING & SIZES AND DETAIL 3 ON DRAWING P0.3.

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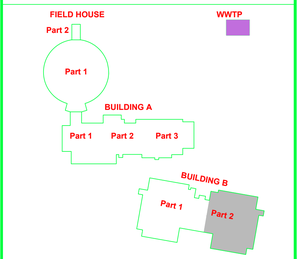

Wayland High School
Wayland, MA
SECOND FLOOR PLAN PART 2
BUILDING B
SCALE: AS NOTED
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REVISIONS NO.	DATE	REMARKS	BY

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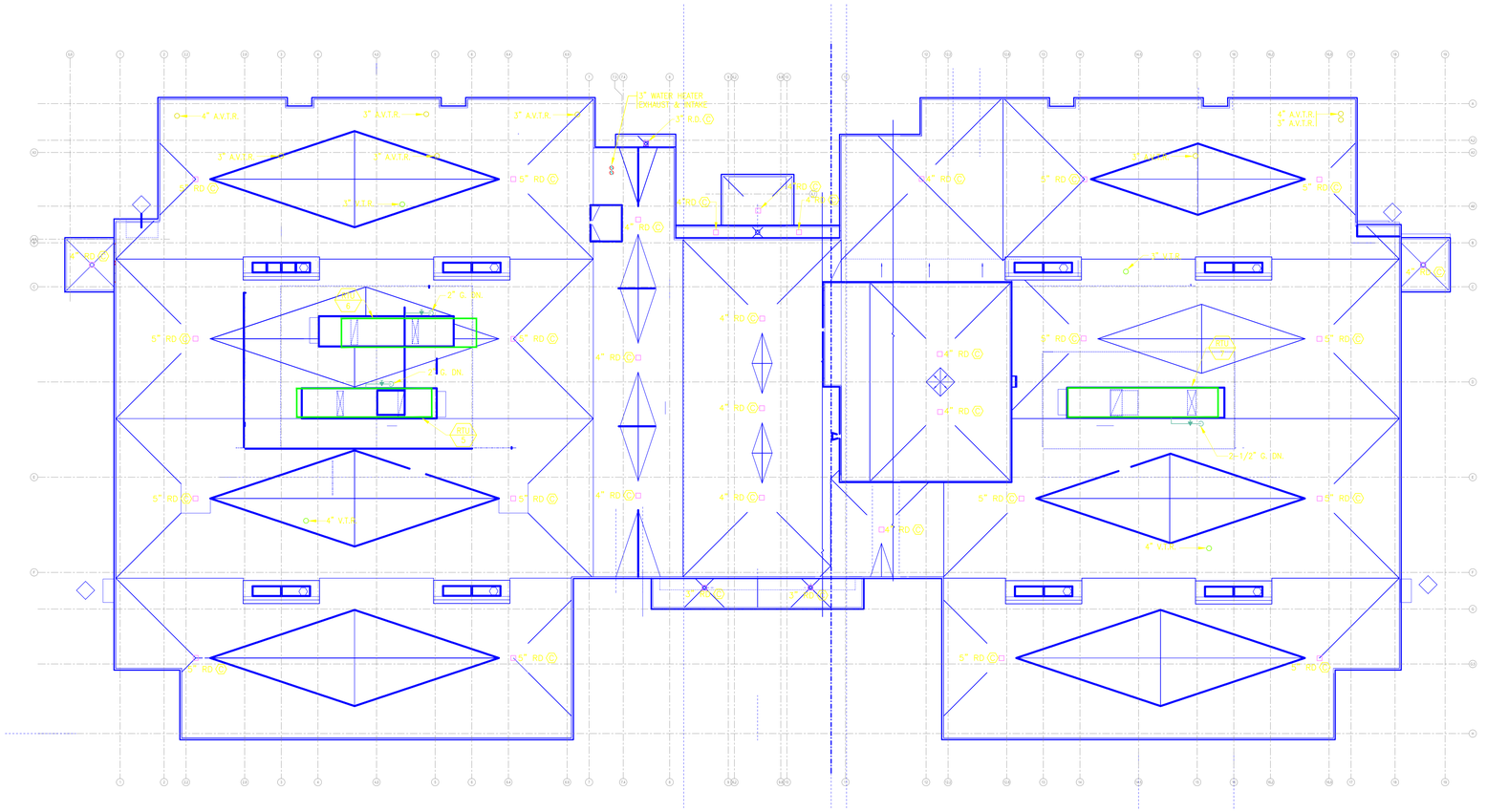

1 B-P2.3 OVERALL ROOF PLAN BUILDING B – PLUMBING
SCALE: 1/16" = 1'-0"

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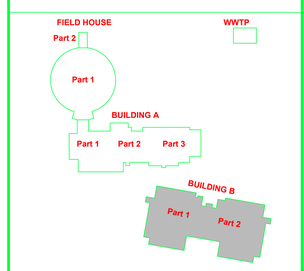
KEYPLAN



Wayland High School
Wayland, MA
OVERALL ROOF PLAN
BUILDING "B"
SCALE: AS NOTED
DRAWN BY: JMP
CHECKED BY: CST

REVISIONS NO.	DATE	REMARKS	BY

DRAWING NUMBER
B-P2.3

JOB NUMBER 426409

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NOTE:
EXISTING CONDITIONS WERE TAKEN FROM AS-BUILTS PLANS PREPARED BY GRASSEGEN MECHANICAL CONTRACTORS WITH PLAN DATE OF MARCH 17, 1992 AND AS-BUILT DATE OF OCTOBER 14, 1992.

MATCHLINE PART 2 / PART 1

REFER TO BOILER ROOM PART PLAN FOR CONTINUATION

EX. 2-1/2" CW TO DEMOLISHED WEIGHT ROOM

EX. 2-1/2" CW TO ROOF ROOM

NEW PENDENT HEADS IN MECHANICAL ROOM F112

MECHANICAL F112

EX. 2-1/2"

EX. 1-1/4"

TYP. EXISTING FIELD HOUSE HOUSE SPRINK. SYSTEM TO REMAIN ACTIVE UNLESS NOTED OTHERWISE

WRESTLING ROOM F110

FIELD HOUSE MAIN COURT F100

MECHANICAL S11

NEW PENDENT HEADS IN MECHANICAL ROOM F111

NEW SPRINKLER MAIN TO MECHANICAL AREAS

VESTIBULE F101

ROYER F104B

WOMEN F101C

MEN F101D

TYP. - D&R EXISTING SPRINKLER PIPING & HEADS IN LOBBY AREA F.&I. NEW BRANCH PIPING & HEADS TO PROTECT RENOVATED AREA

VESTIBULE F108

CUST F108

CONNECT TO EXISTING

D&R EXISTING

GYM LOCKERS F102B

COACH F107

TOILET F105A

CORRIDOR F105

HC SHOWER F105B

SHOWERS F108A

GIRLS F108

GIRLS LOCKERS F102

PE OFC F105

GYM LOCKERS F102A

STAIR SF101

VESTIBULE F100A

STAIR SF104

GIRLS TEAM RM F104

TYP. - D&R EXISTING SPRINKLER PIPING & HEADS IN MAIN LEVEL CEILING AREA F.&I. NEW BRANCH PIPING & HEADS TO PROTECT MAIN LEVEL BELOW CEILING AREA

EXISTING SPRINKLER SYSTEM ABOVE CEILING TO REMAIN ACTIVE

F. MAIN DN.

FIRE ZONE 1

FIRE ZONE 2

FIELD HOUSE

BUILDING A PART 1

BY DIV. 15

BY SPEC 21500

EMER. GEN.

MECH.

1 FH FP2.1 FIELD HOUSE – FIRST FLOOR PLAN – FIRE PROTECTION

SCALE: 3/32" = 1'-0"

EX. 2-1/2"

EX. SP. UP

CART STORAGE F114

STORAGE F113

EXIST'G. SPRINKLER SYSTEM TO REMAIN ACTIVE

MATCHLINE PART 2 / PART 1

R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17 R18 R19 R20 R21

X5 X5.5 X6 X7 X8

XJ XH XG XF XE XD

D&R EX. DOUBLE CHECK VLV. ASSEMBLY & ALARM VLV.

D&R EX. FIRE SERVICE

D&R EX. FIRE DEPT. CONNECTION

D&R EX. 3" SP. UP

CUST F008

STAIR SF008

GYM LOCKERS F102B

COACH F007

TOILET F007A

HC SHOWER F006B

SHOWERS F006A

BOYS TEAM RM F004

CORRIDOR F012

BOYS TOILET F006

TOILET F005A

PE OFC FD05

BOYS LOCKERS F003

GYM LOCKERS F002A

ELEV MACH. F010

STAIR SE101

SEWER EJECTOR F011

TYP. - D&R EXISTING SPRINKLER PIPING & HEADS IN LOWER LEVEL F.&I. NEW BRANCH PIPING & HEADS TO PROTECT LOWER LEVEL

F. MAIN UP

KN-1 KN-3 KN-5 KN-7

2 FH FP2.1 FIELD HOUSE – LOWER FLOOR PLAN – FIRE PROTECTION

SCALE: 3/32" = 1'-0"

FIRE PROTECTION KEY NOTES

- KN-1 FIRE DISTRIBUTION MAIN.
- KN-2 BASE OF RISER CONTROLLER CONSISTING OF VALVE w/TAMPER SWITCH, FLOW SWITCH, AND TEST ASSEMBLY.
- KN-3 SCVA TO CONTROL SPRINKLER FLOW TO DESIGNATED ZONE. REFER TO DETAIL.
- KN-4 FDVC CONSISTING OF 2-1/2" FIRE DEPT. VALVE w/2-1/2" x 1-1/2" REDUCER
- KN-5 COMBINATION RISER
- KN-6 STANDPIPE RISER
- KN-7 HYDRAULICALLY SIZED SPRINKLER MAIN TO DESIGNATED FIRE ZONE.
- KN-8 FIRE HOSE CABINET
- KN-9 FIRE DEPARTMENT CONNECTION

KEYPLAN

FIELD HOUSE Part 2 — WWTP

BUILDING A: Part 1 | Part 2 | Part 3

BUILDING B: Part 1 | Part 2

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FIELD HOUSE - FIRST & LOWER FLOOR PLANS - FIRE PROT.

SCALE: AS NOTED | DRAWN BY: | CHECKED BY: CST

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FP2.1

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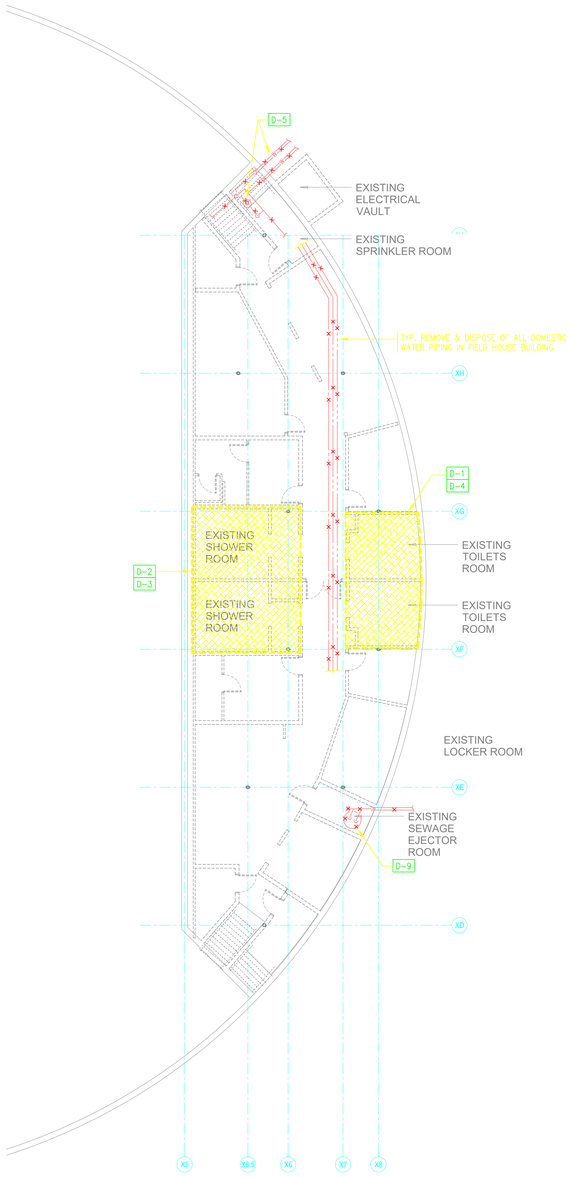
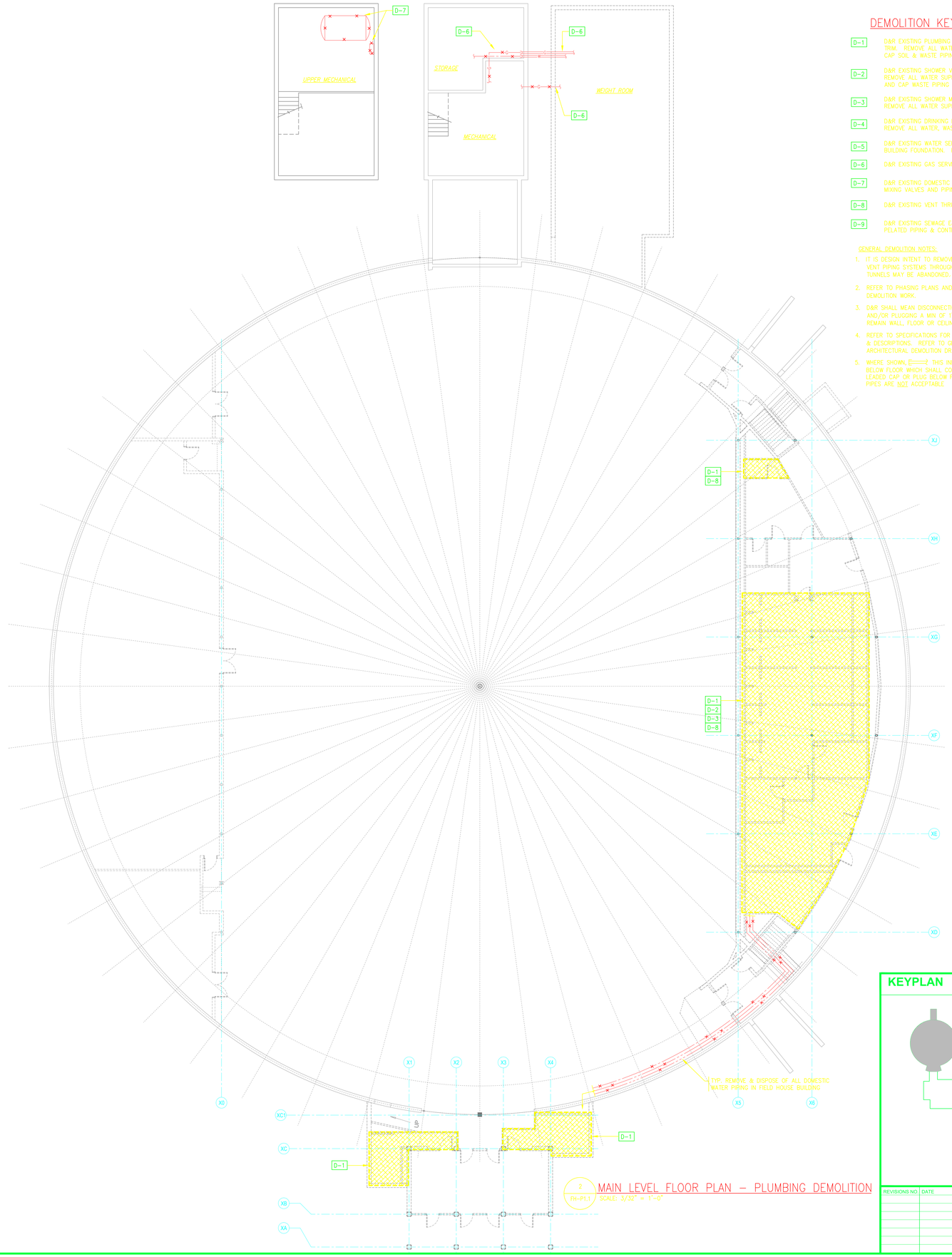


1 FH-P1.1 LOWER LEVEL FLOOR PLAN PLUMBING DEMOLITION
SCALE: 3/32" = 1'-0"



2 FH-P1.1 MAIN LEVEL FLOOR PLAN – PLUMBING DEMOLITION
SCALE: 3/32" = 1'-0"

DEMOLITION KEY NOTES:

D-1 D&R EXISTING PLUMBING FIXTURE(S), CARRIER(S) & RELATED TRIM. REMOVE ALL WATER, SOIL, WASTE & VENT PIPING. CAP SOIL & WASTE PIPING BELOW SLAB

D-2 D&R EXISTING SHOWER VALVE, HEAD & RELATED TRIM. REMOVE ALL WATER SUPPLY PIPING. REMOVE FLOOR DRAIN AND CAP WASTE PIPING BELOW SLAB

D-3 D&R EXISTING SHOWER MASTER MIXING VALVE & RELATED TRIM. REMOVE ALL WATER SUPPLY PIPING. REMOVE FLOOR DRAIN

D-4 D&R EXISTING DRINKING FOUNTAIN & CARRIER. REMOVE ALL WATER, WASTE AND VENT PIPING.

D-5 D&R EXISTING WATER SERVICE OUTSIDE OF BUILDING FOUNDATION. REMOVE EX. WATER METERS.

D-6 D&R EXISTING GAS SERVICE & PIPING.

D-7 D&R EXISTING DOMESTIC HOT WATER TANKS, CIRC. PUMPS, MIXING VALVES AND PIPING.

D-8 D&R EXISTING VENT THRU ROOF.

D-9 D&R EXISTING SEWAGE EJECTOR PUMPS, BASIN AND ALL RELATED PIPING & CONTROL PANEL.

GENERAL DEMOLITION NOTES:

1. IT IS DESIGN INTENT TO REMOVE ENTIRE WATER, SOIL, WASTE & VENT PIPING SYSTEMS THROUGHOUT THE BUILDING. PIPING WITHIN TUNNELS MAY BE ABANDONED.
2. REFER TO PHASING PLANS AND SPECIFICATIONS PRIOR TO ANY DEMOLITION WORK.
3. D&R SHALL MEAN DISCONNECTION AND REMOVAL AND CAPPING AND/OR PLUGGING A MIN OF 1" BEYOND NEW OR EXISTING TO REMAIN WALL, FLOOR OR CEILING SURFACES.
4. REFER TO SPECIFICATIONS FOR DEMOLITION RESPONSIBILITIES & DESCRIPTIONS. REFER TO GENERAL DEMOLITION NOTES ON ARCHITECTURAL DEMOLITION DRAWINGS.
5. WHERE SHOWN, ⟹, THIS INDICATES A CAP OR PLUG BELOW FLOOR WHICH SHALL CONSIST OF A CAULKED AND LEADED CAP OR PLUG BELOW FLOOR. CONCRETE FILLED PIPES ARE NOT ACCEPTABLE.

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KEYPLAN

Wayland High School
Wayland, MA
Field House - Lower & Main Level
Floor Plans - Plumbing Demolition
SCALE: 3/32" = 1'-0" DRAWN BY: GSD CHECKED BY: DMG

REVISIONS NO.	DATE	REMARKS	BY

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P1.1

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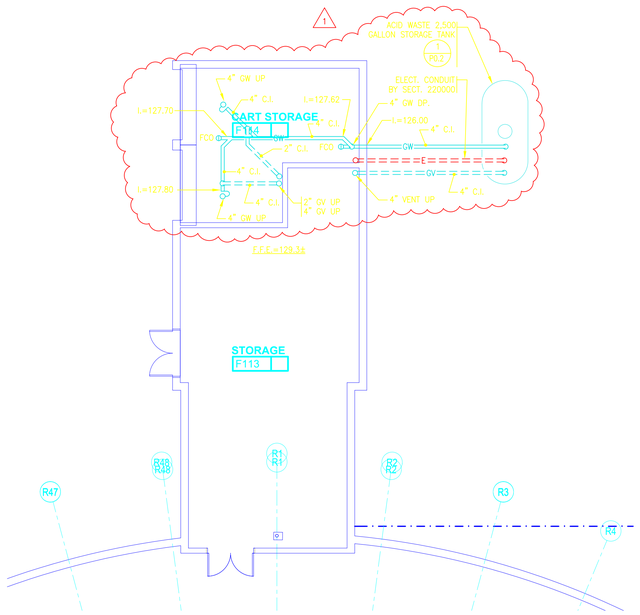
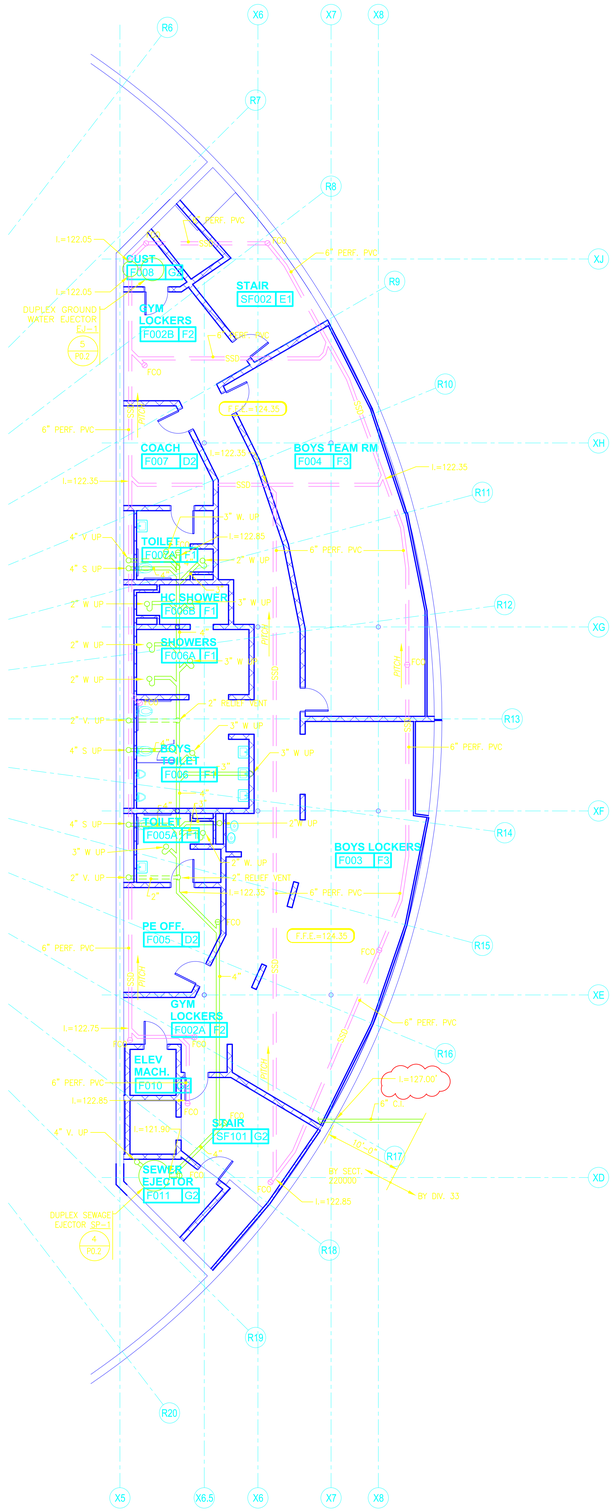
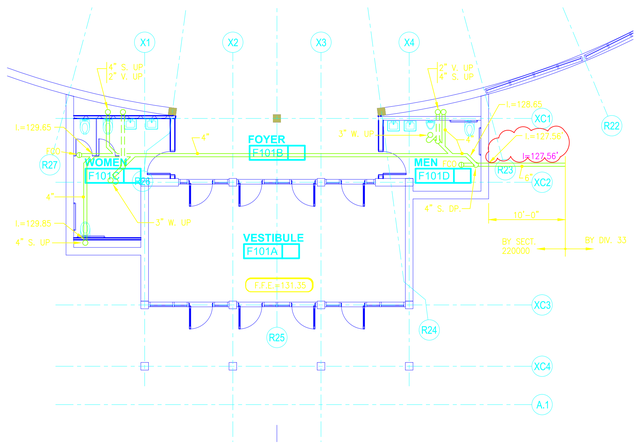


4 (FH-P2.0.1) BELOW SLAB PIPING PLAN, PART 2 – PLUMBING
SCALE: 1/8" = 1'-0"



1 (FH-P2.0.1) BELOW SLAB PIPING PLAN, PART 1 – PLUMBING
SCALE: 1/8" = 1'-0"



2 (FH-P2.0.1) BELOW SLAB PIPING PLAN, PART 1 – PLUMBING
SCALE: 1/8" = 1'-0"

3 (FH-P2.0.1) LOWER LEVEL PLAN, PART 1 – PLUMBING
SCALE: 1/8" = 1'-0"

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KEYPLAN

Wayland High School
Wayland, MA
BELOW SLAB PIPING PLAN & LOWER LEVEL, PART 1 - FIELD HOUSE
SCALE: AS NOTED | DRAWN BY: JMP | CHECKED BY: CST

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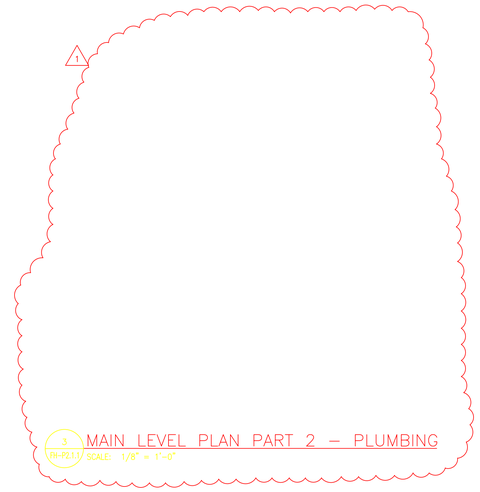
2 FH-P2.1.1 MAIN LEVEL PLAN PART 1 – PLUMBING
SCALE: 1/8" = 1'-0"



3 FH-P2.1.1 MAIN LEVEL PLAN PART 2 – PLUMBING
SCALE: 1/8" = 1'-0"

1 FH-P2.1.1 MAIN LEVEL PLAN PART 1 – PLUMBING
SCALE: 1/8" = 1'-0"

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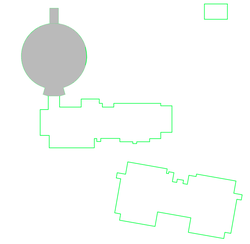

Wayland High School
Wayland, MA
MAIN LEVEL PLAN
FIELD HOUSE

SCALE: AS NOTED DRAWN BY: JMP CHECKED BY: CST

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LEGEND

SYMBOL	ABBREV	DESCRIPTION
	NEW	NEW WORK (DARK)
	EX	EXISTING WORK (LIGHT)
F	F	FIRE LINE ABV. GRADE
F	F	FIRE LINE UNDERGROUND
SP	SP	SPRINKLER LINE (WET)
D	D	SPRINKLER LINE (DRY)
EC		SIDEWALL SPRINKLER HEAD EXTENDED COVERAGE
		SIDEWALL SPRINKLER HEAD
EC		PENDANT SPRINKLER HEAD EXTENDED COVERAGE
		PENDANT SPRINKLER HEAD
		EXPOSED UPRIGHT SPRINKLER HEAD
		CONCEALED PENDANT SPRINKLER HEAD IN CEILING
D		DRY SIDEWALL SPRINKLER HEAD
D		DRY PENDANT SPRINKLER HEAD IN CEILING
D		DRY EXPOSED UPRIGHT SPRINKLER HEAD
D		DRY CONCEALED PENDANT SPRINKLER HEAD IN CEILING
		EXISTING SPRINKLERHEAD TO REMAIN
		EXISTING SPRINKLERHEAD TO BE REMOVED
DP,DN		PIPE DROP OR DOWN
UP		PIPE RISE OR UP
		TEE LOOKING DOWN
		CAP ON END OF PIPE
		STRAINER
		UNION
PG		PRESSURE GAGE
CV		CHECK VALVE
SCV		SUPERVISED CONTROL VALVE
VIV		VALVE IN VERTICAL
FDC		FIRE DEPARTMENT CONNECTION
FS		FLOW SWITCH
PIV		POST INDICATOR VALVE
ABD		AUTOMATIC BALL DRIP
WMG		WATER MOTOR GONG
TYP.		TYPICAL
AC		CONCEALED ABOVE CEILING
@C		EXPOSED AT CEILING
AP		ACCESS PANEL
AFF		ABOVE FINISHED FLOOR
F&I		FURNISH AND INSTALL
PC		PLUMBING CONTRACTOR
FPC		FIRE PROTECTION CONTRACTOR
GC		GENERAL CONTRACTOR
HVAC		HEAT, VENT & AIR COND. CONTRACTOR
EC		ELECTRICAL CONTRACTOR
DCVA		DOUBLE CHECK VALVE ASSEMBLY
EXP.		EXPOSED
LPD		LOW POINT DRAIN
FDV		FIRE DEPARTMENT VALVE
FDVC		FIRE DEPT. VALVE CABINET
FHC		FIRE HOSE CABINET
SCVA		SPRINKLER FLOOR CONTROL VALVE ASSEMBLY
NAS		NO AUTOMATIC SPRINKLERS

NOTE: NOT ALL SYMBOLS LISTED ARE APPLICABLE TO THIS PROJECT.

GENERAL NOTES

1. THE WORK HEREIN REQUIRED INCLUDES A HYDRAULICALLY DESIGNED SPRINKLER SYSTEM AS SPECIFIED IN THE DOCUMENTS AND AS APPROVED BY THE ARCHITECT.
2. THE FIRE PROTECTION DRAWINGS ARE DIAGRAMMATIC AND ARE TO BE USED FOR THE PURPOSE OF ESTABLISHING GENERAL LOCATIONS OF PIPING RUNS, SIZES OF PIPING AND QUANTITIES OF FIXTURES AND EQUIPMENT TO BE FURNISHED HEREIN. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS FOR EXACT LOCATIONS OF ALL SPRINKLER HEADS, AND EQUIPMENT, INCLUDING MOUNTING HEIGHTS. IN THE EVENT OF CONFLICT OR IF DIMENSIONS ARE NOT SHOWN, OBTAIN FIELD DIRECTIVE FROM THE ARCHITECT AS TO THE LOCATIONS OF ALL VISIBLE EQUIPMENT.
3. ALL PIPING SHOWN ON THESE PLANS OR THOSE TO BE DESIGNED HEREIN SHALL BE RUN CONCEALED ABOVE SUSPENDED CEILINGS, IN CHASES, OR IN PARTITIONS UNLESS SPECIFICALLY NOTED OTHERWISE.
4. ALL SPRINKLER HEADS IN CEILING TILES SHALL BE LOCATED IN THE EXACT CENTER OF TILE UNLESS SPECIFICALLY APPROVED OTHERWISE BY THE ARCHITECT.
5. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING HEIGHTS AND CEILING MATERIALS AND LAYOUTS. REFER TO THE RESPECTIVE PLUMBING, HVAC AND ELECTRICAL DRAWINGS FOR LIGHTING, DIFFUSER AND REGISTER LAYOUTS IN CEILINGS AND FOR PIPING, DUCTWORK AND EQUIPMENT ABOVE CEILINGS FOR COORDINATION PURPOSES. IN THE EVENT OF CONFLICT OR IF DIMENSIONS ARE NOT SHOWN, OBTAIN FIELD DIRECTIVE FROM THE ARCHITECT AS TO THE LOCATIONS OF ALL VISIBLE EQUIPMENT.
6. THE SPRINKLER CONTRACTOR SHALL PROVIDE AS PART OF THIS CONTRACT ALL SPRINKLERS BELOW FIXED OBSTRUCTIONS 48" AND LARGER AS REQUIRED BY NFPA 13, 8.6.5.3.5. IT IS THE RESPONSIBILITY OF THE SPRINKLER CONTRACTOR TO PROVIDE THE REQUIRED SPRINKLERS AND ALL ASSOCIATED PIPING, FITTINGS, HANGERS, ETC. FOR A COMPLETE INSTALLATION.
7. ATTENTION IS CALLED TO THE REQUIREMENT FOR THE PREPARATION OF COORDINATION DRAWINGS. IN ADDITION TO THE PREPARATION OF SHOP DRAWINGS ALSO PREPARE COORDINATION DRAWINGS AS OUTLINED IN THE SPECIFICATION. THE APPROVAL OF THE SHOP DRAWINGS INCLUDING DIMENSIONS SHOWN THEREIN DOES NOT RELIEVE THE CONTRACTOR.
8. SPECIFIC ATTENTION IS DIRECTED TO THE REQUIREMENTS OF MBC 914.7, 3305.5, 3306.1, AND NFPA 241–2004 REGARDING THE MAINTENANCE OF FIRE PROTECTION SYSTEMS INCLUDING STANDPIPES AND BULK FIRE MAINS BOTH DURING CONSTRUCTION AND DEMOLITION. MAINTAIN THE SYSTEMS AS REQUIRED BY THESE STANDARDS AS A MINIMUM.
9. THE SPRINKLER CONTRACTOR SHALL PROVIDE AS PART OF HIS CONTRACT AN INSPECTOR'S TEST STATION ON EACH SPRINKLER ZONE. THE INSPECTOR'S TEST STATION WILL BE LOCATED AT THE MOST HYDRAULICALLY REMOTE PART OF EACH ZONE AND SHALL BE IDENTIFIED ON THE SPRINKLER SHOP DRAWINGS.
10. REFER TO NFPA 13 TABLE 8.3.2.5(a) FOR TEMPERATURE RATING OF SPRINKLERS BASED ON DISTANCE FROM HEAT SOURCES SUCH AS HEATING DUCTS, DIFFUSERS AND UNIT HEATERS.

FIRE PROTECTION CRITERIA

1. THE PURPOSE OF THE FIRE PROTECTION DRAWINGS AND SPECIFICATIONS IS TO ESTABLISH THE CRITERIA FOR DESIGN, MATERIALS, AND LOCATIONS OF THE COMPLETE SPRINKLER SYSTEM. THE FIRE PROTECTION SUB-CONTRACTOR IS RESPONSIBLE FOR THE FINAL DESIGN OF THE SPRINKLER SYSTEM AND SAID DESIGN AND INSTALLATION SHALL INCLUDE ALL COMPONENTS TO PROVIDE FOR THE COMPLETE SYSTEM WITHOUT ANY ADDITIONAL EXPENSE TO THE OWNER. THE SUB-CONTRACTOR SHALL VERIFY THAT THE NUMBER OF HEADS SHOWN ON HIS WORKING PLANS AND HYDRAULIC CALCULATIONS ARE ADEQUATE TO PROTECT ALL AREAS OF THE BUILDING AND SHALL INCLUDE ANY COST FOR ADDITIONAL SPRINKLER HEADS AND PIPING NOT SHOWN ON THESE DRAWINGS IN HIS CONTRACT PRICE.
2. THE BUILDING IS TO BE 100% SPRINKLERED INCLUDING ALL CLOSETS AND TELEPHONE ROOMS. THE ELECTRIC ROOMS AND EMERGENCY ELECTRIC ROOM SHALL BE CONSTRUCTED AND OCCUPIED TO MEET THE EXCEPTIONS LISTED UNDER NFPA 13–2007 PARAGRAPH 8.15.10 AND ARE NOT SPRINKLERED. THE ELEVATOR MACHINE ROOM AND ELEVATOR SHAFT ARE NOT SPRINKLERED.
3. THE BUILDING IS GENERALLY MASONRY AND STEEL CONSTRUCTION. THE SPACE SHALL BE PROTECTED THROUGHOUT WITH A WET TYPE SPRINKLER SYSTEM AND THE HEADS LOCATED WHERE SHOWN.
4. CODE REQUIREMENTS:

   BUILDING USE: E – EDUCATIONAL (PRIMARY USE)

   PER 780 CMR – 903.2.3 – SPRINKLERS ARE REQUIRED IN USE GROUP E, 12,000 S.F.

   MGL–C148–S26G – REQUIRES SPRINKLERS IN COMMERCIAL USE BUILDING GREATER THAN 7,500 S.F.

   PER 780 CMR – 905.3.1 – REQUIRES CLASS 3 STANDPIPE SYSTEM WHERE THE FLOOR LEVEL OF THE HIGHEST STORY IS LOCATED MORE THAN 30' ABOVE THE LOWEST LEVEL OF FIRE DEPARTMENT VEHICLE ACCESS. HIGHEST STORY IS NOT LOCATED MORE THAN 30' ABOVE GRADE THEREFORE STANDPIPE IS NOT REQUIRED, NOR PROVIDED.

   PER 780 CMR – 905.3.4 – REQUIRES CLASS 3 STANDPIPE IN STAGES GREATER THAN 1,000 SQUARE FEET. STANDPIPE CONNECTIONS ARE PROVIDED ON EACH SIDE OF THE STAGE WITH HOSE CABINETS.

   REFER TO ARCHITECT'S DRAWINGS FOR ADDITIONAL CODE SUMMARY INFORMATION AND DELINEATION OF FIRE SEPARATIONS.

   REFER TO ELECTRICAL DRAWINGS FOR DETAILS OF THE FIRE ALARM SYSTEM.
5. PROVIDE COMPLETE HYDRAULIC CALCULATIONS AND DISTRIBUTION SYSTEM DESIGN UTILIZING THE DESIGN CRITERIA ESTABLISHED ON THE CONTRACT DRAWINGS. SYSTEM DESIGN SHALL BE BASED ON FLOW TEST TO BE CONDUCTED BY THE FIRE PROTECTION SUB–CONTRACTOR. CONSULT WITH AND COORDINATE THE TIME SCHEDULE WITH THE ARCHITECT AND THE WATER DEPARTMENT. FOR THE PURPOSES OF PREPARATION OF THESE DOCUMENTS, THE FOLLOWING FLOW TEST DATA HAS BEEN USED. THE TEST WAS CONDUCTED AT 11:15 P.M. ON AUGUST 12, 2010 BY NITSCH ENGINEERING ON HYDRANTS ON THE SITE. GAGE HYDRANT LOCATED NEAR THE SCHOOL ENTRANCE OFF OLD CONNECTICUT PATH AND THE FLOW HYDRANT LOCATED NORTH OF THEAST SIDE OF THE EXISTING HIGH SCHOOL. ELEVATION OF THE GAGE HYDRANT IS ELEVATION 134±. FLOW TEST RESULTS ARE AS FOLLOWS:

STATIC PRESSURE:	100 PSI
RESIDUAL PRESSURE:	65 PSI
FLOW:	715 GPM
AVAILABLE FLOW @20 PSI:	1,117 GPM

6. REQUIRED DESIGN FLOWS:

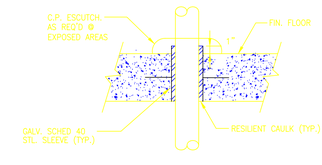
   A. DESIGN HAZARDS:
      1. MEDIA/LIBRARY AREAS: ORDINARY, GROUP 2
      2. STAGE AREA: ORDINARY, GROUP 2
      3. MECHANICAL ROOMS: ORDINARY, GROUP 1
      4. STORAGE ROOMS: ORDINARY, GROUP 1
      5. KITCHEN COOKING AREA: ORDINARY, GROUP 1
      6. SCIENCE CLASSROOMS: ORDINARY, GROUP 1
      7. AUDITORIUM: LIGHT
      8. CAFETERIA SEATING AREA: LIGHT
      9. ALL OTHER AREAS NOT LISTED: LIGHT

      REFER TO DRAWINGS INDICATING THE DELINEATIONS.

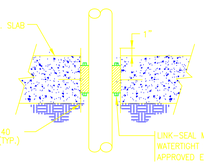
   B. REQUIRED DESIGN DENSITIES:
      1. LIGHT HAZARD AREAS = 0.10 GPM OVER 1,500 S.F.
      2. ORDINARY HAZARD GROUP 1 = 0.15 GPM OVER 1,500 S.F.
      3. ORDINARY HAZARD GROUP 2 = 0.20 GPM OVER 1,500 S.F.
7. SPRINKLER SPACING (MAX.):

   LIGHT HAZARD AREAS: 225 S.F.*
   ORDINARY HAZARD AREAS: 130 S.F.
   ATTIC AREAS: 120 S.F.
   SIDEWALL HEADS: TABLE 8.7.2.2.1 OF NFPA 13*

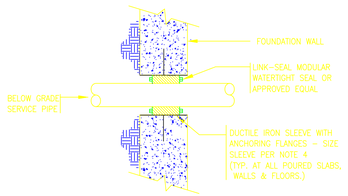
   *EXTENDED COVERAGE USING LISTED HEADS MAY EXCEED THIS WITH ARCHITECT'S APPROVAL.
8. FOLLOW THE HEAD LAYOUTS SHOWN ON THE DRAWINGS IN FINISHED AREAS. ALL SPRINKLER HEADS SHALL BE LOCATED DEAD CENTER ON THE CEILING TILE AND SWING JOINTS IF REQUIRED MAY BE USED TO MEET THIS REQUIREMENT.
9. HYDRAULIC CALCULATIONS FOR THE SYSTEM SHALL INCLUDE A 10 PSI CUSHION AND SHALL LIMIT WATER FLOW VELOCITY TO A MAXIMUM OF 20 FT./SEC.



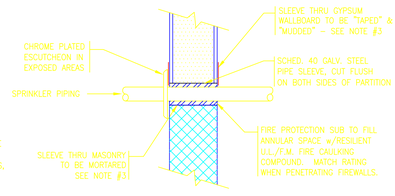
THRU CONC. FLOORS



THRU SLAB ON GRADE



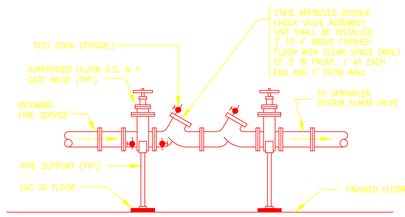
BELOW GRADE



THRU PARTITIONS & WALLS

1 FP0.1 TYPICAL SLEEVE CONDITION DETAILS
N.T.S.

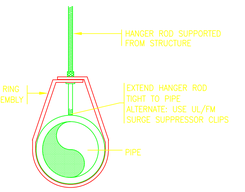
NOTE:
1. ALL PIPING PENETRATING ALL PARTITIONS, WHETHER FIRE OR SMOKE RATED OR NOT, CONCEALED OR EXPOSED, SHALL BE SLEEVED AS DETAILED.
2. WHERE CONC. WALLS, SLABS, ETC., ARE CORE DRILLED, INSTALL SLEEVE FLUSH WITH BOTH SIDES, CAULKED & LEADED IN PLACE.
3. REFER TO DIVISION 4 & 9 FOR PROCEDURES & METHODS OF PATCHING AROUND SLEEVES AT GYPSUM, PLASTER & MASONRY. REFER TO SPECS FOR DEUNEATION OF RESPONSIBILITY
4. SLEEVES SHALL BE SIZED TO PROVIDE MIN. 1" CLEARANCE BETWEEN PIPE O.D. & SLEEVE I.D. FOR PIPING UP TO 3" IN SIZE. PROVIDE 2" CLEARANCE BETWEEN PIPE O.D. & SLEEVE I.D. FOR PIPING 4" IN SIZE AND GREATER.



2 FP0.1 DOUBLE CHECK VALVE ASSEMBLY (DCVA) DETAIL
SCALE: N.T.S.

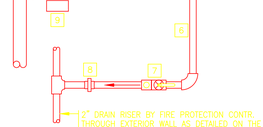
NOTES:
1. SUPPORT PIPING AND FITTINGS AS REQUIRED TO CONFORM TO MANUFACTURERS AND OR CODE REQUIREMENTS.
2. MATERIALS AND METHODS FOR THIS INSTALLATION SHALL CONFORM TO ALL STATE & U.S. PUBLIC HEALTH SERVICES CODES AND REGULATIONS
3. FILE FOR AND OBTAIN ALL REQUIRED APPROVALS & PERMITS PRIOR TO INSTALLATION

3 FP0.1 INSPECTOR'S TEST DETAIL
N.T.S.



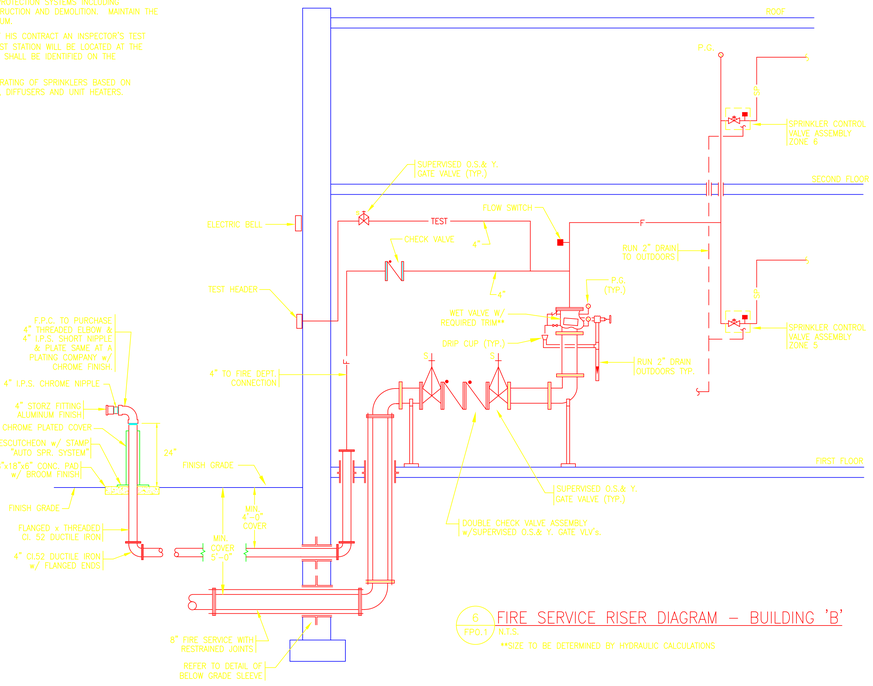
4 FP0.1 TYPICAL END–OF–LINE BRANCH PIPE HANGER DETAIL
SCALE: N.T.S.

NOTE: TO BE USED AT ALL END–OF–LINE BRANCH HANGERS THROUGHOUT PROJECT



1 COMBINATION F/SP. STANDPIPE
2 U/L/FM INDICATING TYPE CONTROL VALVE
3 TO SPRINKLER SYSTEM
4 WATERFLOW SWITCH
5 PRESSURE GAUGE WITH COCK
6 1" DRAIN LINE
7 U.L. LISTED COMBINATION TEST, DRAIN, AUX. DRAIN, AND SIGHT GLASS
8 UNION
9 IDENTIFICATION SIGN
10 U/L/FM CHECK VALVE

5 FP0.1 SPRINKLER CONTROL VALVE ASSEMBLY (SCVA) DETAIL
SCALE: N.T.S.



6 FP0.1 FIRE SERVICE RISER DIAGRAM – BUILDING 'B'
N.T.S.
**SIZE TO BE DETERMINED BY HYDRAULIC CALCULATIONS

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09/03/2010

PLAN NORTH
TRUE NORTH

Wayland High School
Wayland, MA
LEGEND, NOTES & DETAILS

SCALE: N.T.S. DRAWN BY: JMP CHECKED BY: CST

DRAWING NUMBER
FP0.1

JOB NUMBER 429409

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SITE NOTES:

1. DO NOT RUN ANY UNDERGROUND RACEWAYS WITHIN PLANTING AREAS OR LEACHING FIELDS OR WITHIN THE PLAYING FIELD. REFER TO DRAWINGS FOR LOCATIONS. COORDINATE ROUTING WITH LANDSCAPE ARCHITECT.
2. REFER TO CIVIL DRAWINGS FOR EXACT ROUTING OF UTILITIES. REFER TO LANDSCAPE EXACT LOCATION OF 'SITE' FIXTURES.
3. PROVIDE GROUND MOUNTED PULL BOX EQUAL TO QUAZITE #PC1212BA12 WITH COVER #PC1212CA17. RUN ALL SITE LIGHTING VIA PULL BOX. ALSO PROVIDE VIA PULL BOX. ALSO PROVIDE (2) 1" SPARE WITH PULL LINE BETWEEN PULL BOX AND ELECTRIC ROOM. LABEL @ EACH END.
4. ALL SITE WIRING SHALL BE MINIMUM 2#8&#10G+4#14–1"C UNLESS SHOWN OTHERWISE.
5. ALL EXTERIOR LIGHTING TO BE PROGRAMMED FOR PHOTOCELL "ON", AND TIMED "OFF". PROVIDE INDIVIDUAL CONTROL FOR EACH CIRCUIT. COORDINATE PROGRAMMING WITH OWNER.
6. SEE ARCH. DRAWINGS FOR EXACT LOCATION OF EXTERIOR WALL MOUNTED LIGHTING.
7. REMOVE ALL EXISTING SITE ELECTRICS WHEN NO LONGER REQUIRED.
8. GROUND MOUNTED PULL BOX EQUAL TO QUAZITE #PC1212BA12 WITH COVER PC1212CA17.
9. AT EACH LIGHT POLE WITH CCTV CAMERA, CONDUIT SHALL RUN TO CAMERA BOX INTERNAL TO POLE SO THAT A LOW VOLTAGE BARRIER IS MAINTAINED AT ALL TIMES.
10. SKE-073
11.
12. SKE 102

SITE WIRING LEGEND:

① 2#8&#10G+4#14(DIMMING DRIVER OR HI/LOW)–1"C, 24" BELOW GRADE.
② 3#8&#10G–1"C, 24" BELOW GRADE.
③ 4#8&#10G–1"C, 24" BELOW GRADE.

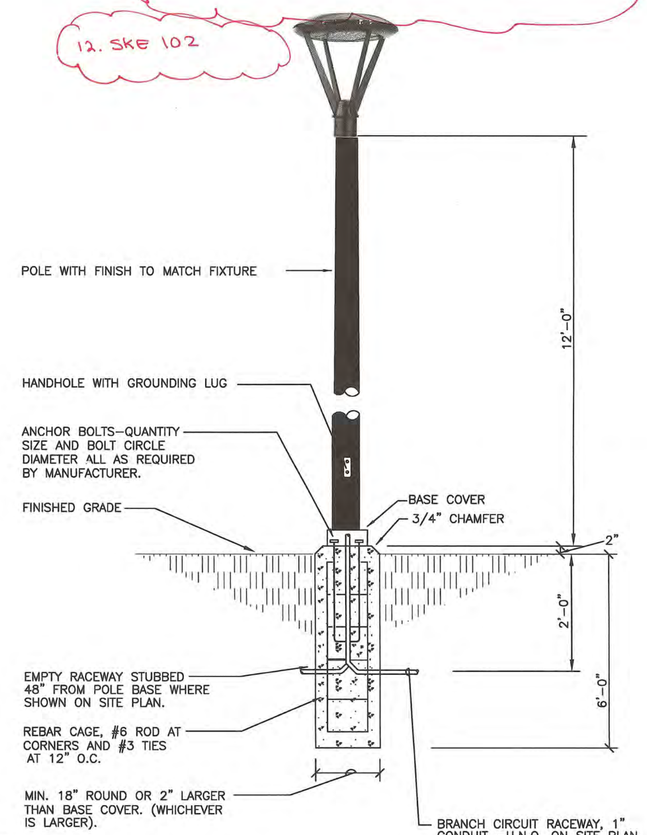
LIMIT OF WORK LINE
PROPERTY LINE
APPROXIMATE LOCATION OF ELECTRIC ROOM IN FIELD HOUSE. SEE NOTE 9 ON DRAWING W–ET2.1.
APPROXIMATE LOCATION OF TEMPORARY BYPASS PUMP STATION. SEE NOTE 9 ON DRAWING W–ET2.1.
CONCRETE PAD BY G.C. FOR E.C. PAD MOUNTED TRANSFORMER BY G.C.
6"DIA CONCRETE FILLED STEEL BOLLARDS BY G.C. 8'LG (TYPICAL). COORDINATE EXACT LOCATION WITH UTILITY CO.
EXISTING TRANSFORMER & ALL UNDERGROUND CABLES TO BE REMOVED. DUCTBANK TO BE ABANDONED.
EXISTING FIELDHOUSE TO REMAIN
CONNECT NEW 8" WATER MAIN TO EXISTING 8" WATER MAIN
PROPOSED "B" DI WATER LINE BY OTHERS
PROPOSED GAS SERVICE (BY OTHERS)
PROPOSED NORTH BUILDING
PROPOSED SOUTH BUILDING
PAD MOUNTED TRANSFORMER BY UTILITY CO.
SEE NOTE 6 (TYP.)
VIA P.C. & T.C. CONTROL VIA PULL BOX
APPROXIMATE LOCATION OF MAIN ELECTRICAL ROOM
4"C CONDUIT RUN FROM BUILDING 'A' TO FIELD HOUSE FOR POWER AND TEL/DATA. RUN CONCEALED THROUGH VOID SPACE IN CONNECTOR CANOPY BETWEEN BUILDINGS. STUB–OUT IN EACH BUILDING ABOVE HUNG CEILING.
6" FIRE SERVICE UTILITY CORRIDOR (FIRE PROTECTION, ELECTRIC, GAS, TELECOM AND DOMESTIC WATER)
BUILDING A
APPROXIMATE LOCATION OF IDF ROOM
PULL BOX, SEE NOTE #3
BUILDING B
APPROXIMATE LOCATION OF ELECTRICAL ROOM
APPROXIMATE LOCATION OF TELECOMMUNICATIONS SERVICE ENTRANCE ROOM
APPROXIMATE LOCATION OF HEAD END ROOM
LED LIGHT FIXTURE MOUNTED UNDER BENCH. SEE ARCHITECTURAL DETAILS FOR QUANTITY AND LENGTHS (TYPICAL)
(2) 1"C. 1"C WITH FIBER OPTIC CABLE IN IDF RM. IN BUILDING A. 1"C WITH 2#8+#10G TO ELEC. RM. IN BUILDING A.
EXISTING OVERHEAD UTILITIES TO BE REMOVED.
#19/C2/103–2
ELECTRICAL HANDHOLE FURNISHED BY NSTAR INSTALLED BY E.C. (TYPICAL OF 3)
(2) 1"C. (1) TO IDF ROOM FOR FIBER OPTIC CABLE & (1) FOR 120V POWER FOR CAMERA. SEE NOTE 9 (TYP.)
(2) 1"C. (1) TO IDF ROOM FOR 3 FIBER OPTIC CABLE & (1) FOR 120V POWER FOR CAMERA.
TYPICAL POLE MOUNTED PTZ CAMERA WITH 120V & FIBER PROVIDED.
(*) INDICATES: PROVIDE FIXTURE WITH DIMMING DRIVER (TYP.)
EXISTING OVERHEAD UTILITIES TO BE REMOVED BY UTILITY CO.
NEW UTILITY POLE RISER
UTILITY POLE RISER
CONNECT NEW 8" WATER MAIN TO EXISTING 12" WATER MAIN
#19/103, #19/103–1, #19/103/2, #19/104
SEE SKE-038, SKE-087, SKE-073R1, SKE-197, SKE-252, SKE-136, SKE-003, SKE-002, SKE-004,005, SKE-005, SKE-050, SKE-001

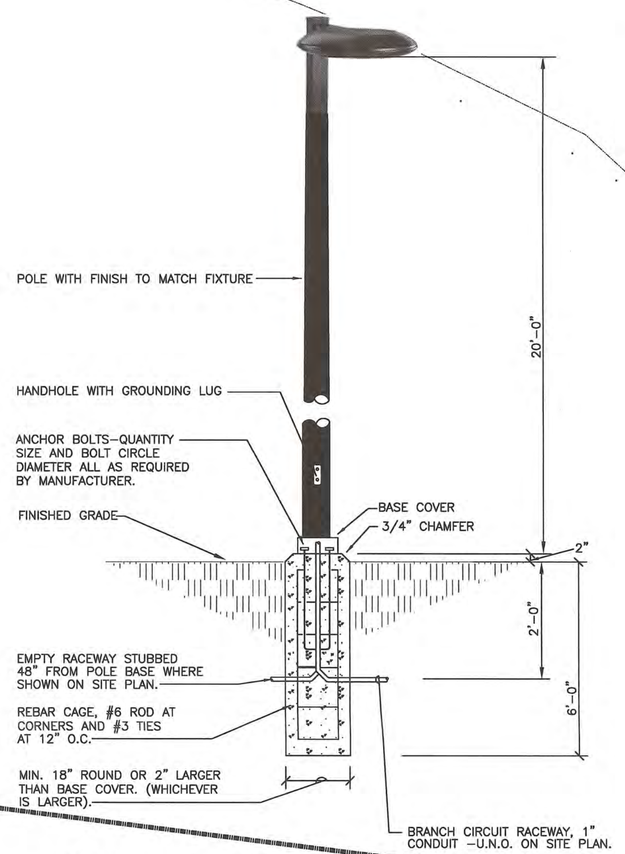
RFI 136
RFI 252
RFI 359 Sewage Lift Station Detail
SKE-108, 109 Added Pole base details

1 / E0.3 ELECTRICAL SITE PLAN
SCALE: 1" = 40'–0"

SEE SKE-001 For Communication Duct-Bank Detail "K-K"

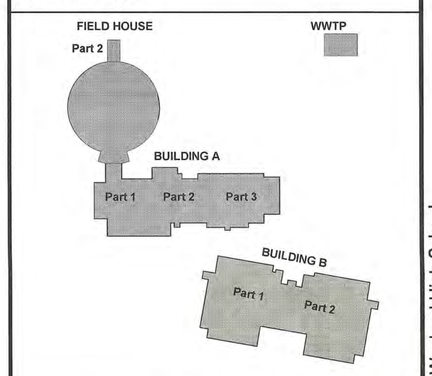
3 / E0.3 SITE LIGHTING POLE BASE DETAIL
N.T.S.
NOTE: THIS DETAIL SHALL BE TYPICAL FOR TYPE SL3 FIXTURES.





2 / E0.3 SITE LIGHTING POLE BASE DETAIL
N.T.S.
NOTE: THIS DETAIL SHALL BE TYPICAL FOR TYPE SL1, SL1H & SL2 FIXTURES.

KEYPLAN



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09/03/2010

Wayland High School
Wayland, MA
Electrical Site Plan

DRAWN BY: MLP
CHECKED BY: JMC
SCALE: AS NOTED

DRAWING NUMBER
E0.3

JOB NUMBER 426409

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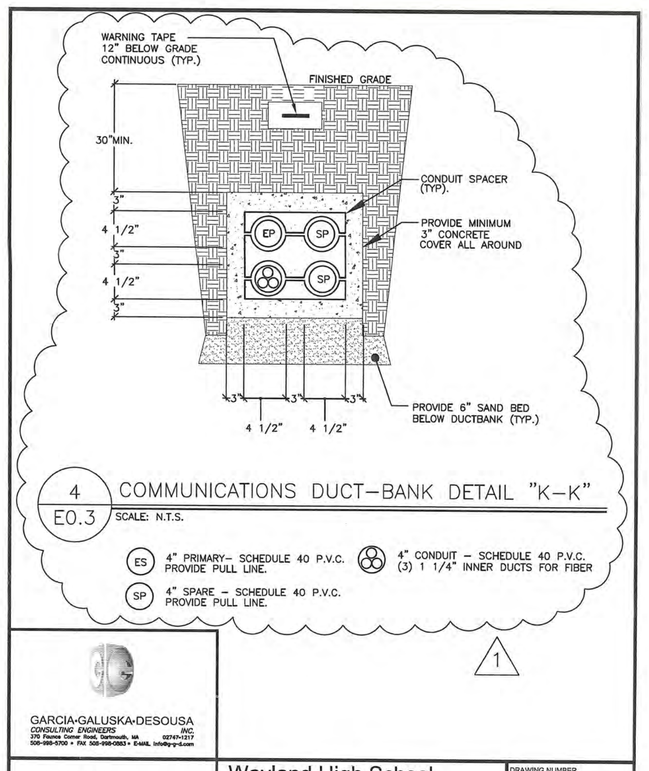

4 / E0.3 COMMUNICATIONS DUCT–BANK DETAIL "K–K"

SCALE: N.T.S.

ES 4" PRIMARY– SCHEDULE 40 P.V.C. PROVIDE PULL LINE

SP 4" SPARE – SCHEDULE 40 P.V.C. PROVIDE PULL LINE.

4" CONDUIT – SCHEDULE 40 P.V.C. (3) 1 1/4" INNER DUCTS FOR FIBER

1

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Wayland High School
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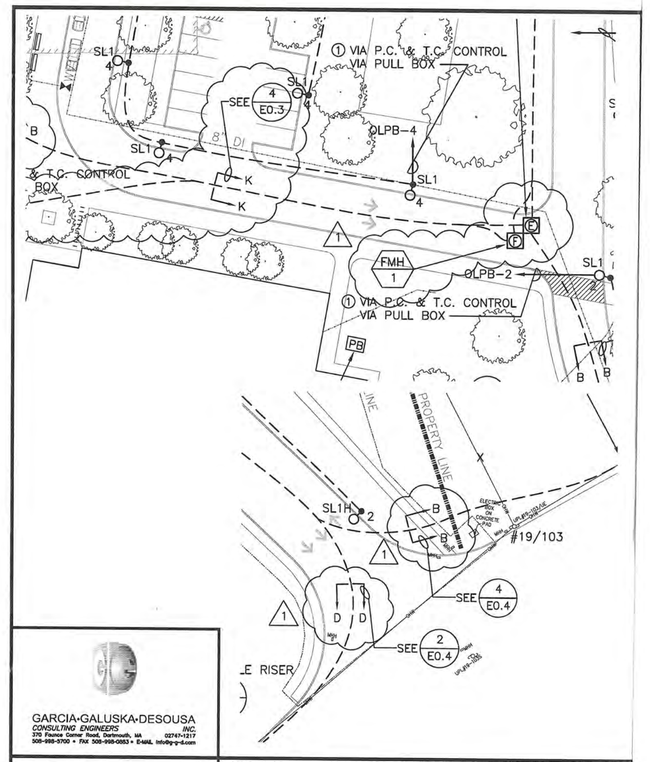
ADDENDUM #1
Rev to DWG: E0.3
ELECTRICAL SITE PLAN

SCALE: NONE DATE: 9-16-10 DRAWN:DMP CHECKED: DMP JOB NUMBER 426409

DRAWING NUMBER **SKE-001**



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Wayland High School
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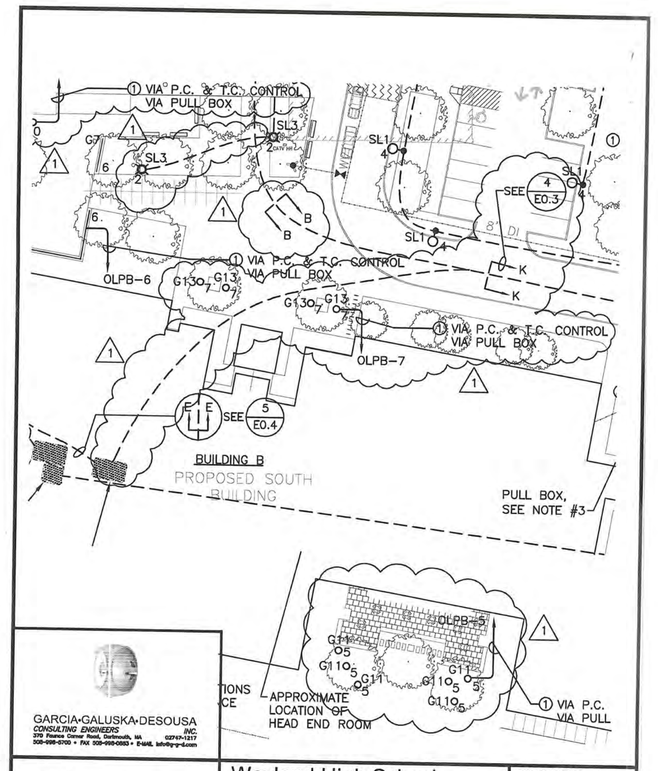
ADDENDUM #1
Rev to DWG: E0.3
ELECTRICAL SITE PLAN

SCALE: 1" = 40'-0" DATE: 9-16-10 DRAWN:DMP CHECKED: DMP JOB NUMBER 426409

DRAWING NUMBER **SKE-002**



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Wayland High School
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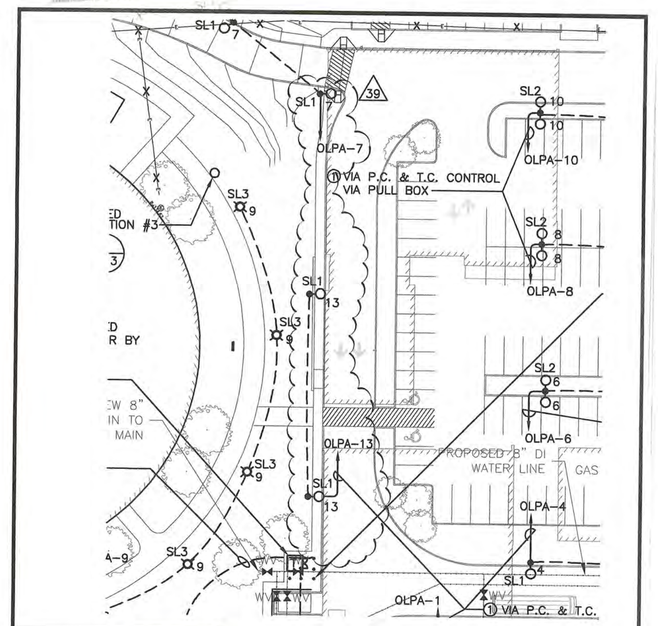
ADDENDUM #1
Rev to DWG: E0.3
ELECTRICAL SITE PLAN

DRAWING NUMBER **SKE-003**



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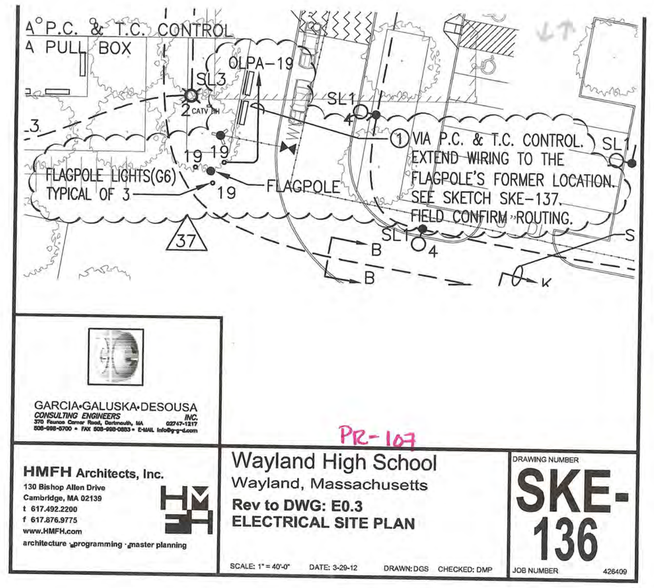
Wayland High School
Wayland, Massachusetts
REVISION #39
Rev to DWG: E0.3 PR 109
ELECTRICAL SITE PLAN

SCALE: 1" = 40'-0" DATE: 5-14-12 DRAWN:DGS CHECKED: DMP JOB NUMBER 426409

DRAWING NUMBER **SKE-147**



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PR-109

Wayland High School
Wayland, Massachusetts
Rev to DWG: E0.3
ELECTRICAL SITE PLAN

SCALE: 1" = 40'-0" DATE: 3-29-12 DRAWN:DGS CHECKED: DMP JOB NUMBER 426409

DRAWING NUMBER **SKE-136**

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ADDENDUM #1
Rev to DWG: E0.3
ELECTRICAL SITE PLAN

DRAWING NUMBER **SKE-004**

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ADDENDUM #1
Rev to DWG: E0.3
ELECTRICAL SITE PLAN

DRAWING NUMBER **SKE-005**

SL5
11
SL5
11
APPROXIMATE LOCATION OF IDF ROOM
SEE NOTE #5
SL3
SEE 5 E0.4
OLPA–20
① VIA P.C. & T.C. CONTROL VIA PULL BOX
SL3
G7
6
SL1
SL1
SL3
SL4
SL3
SL1
SL1
SL1

FIRST FLOOR HVAC PLAN BUILDING A PART–1

SCALE: 1/8" = 1'–0"

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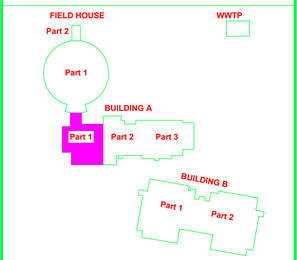
KEYPLAN



Wayland High School
Wayland, MA
First Floor HVAC Plan
Building A Part-1
SCALE: 1/8" = 1'-0" DRAWN BY: TRB CHECKED BY: DP

REVISIONS NO.	DATE	REMARKS	BY

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JOB NUMBER 426409

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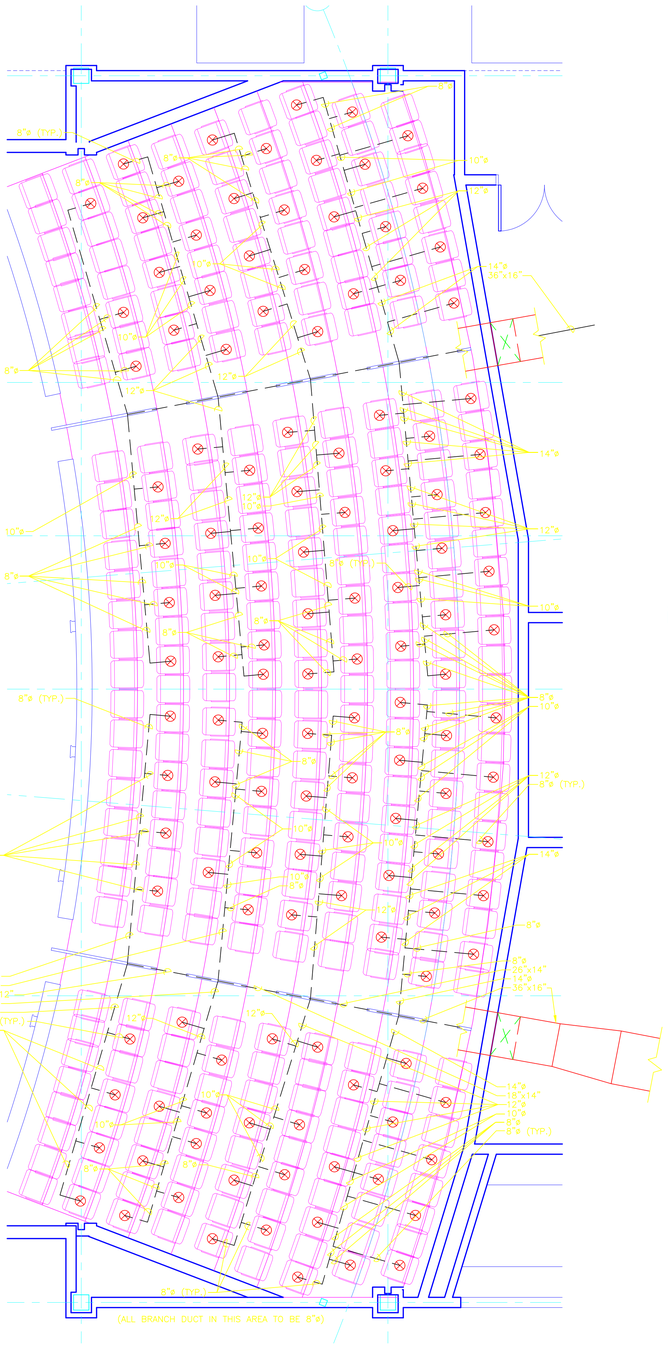
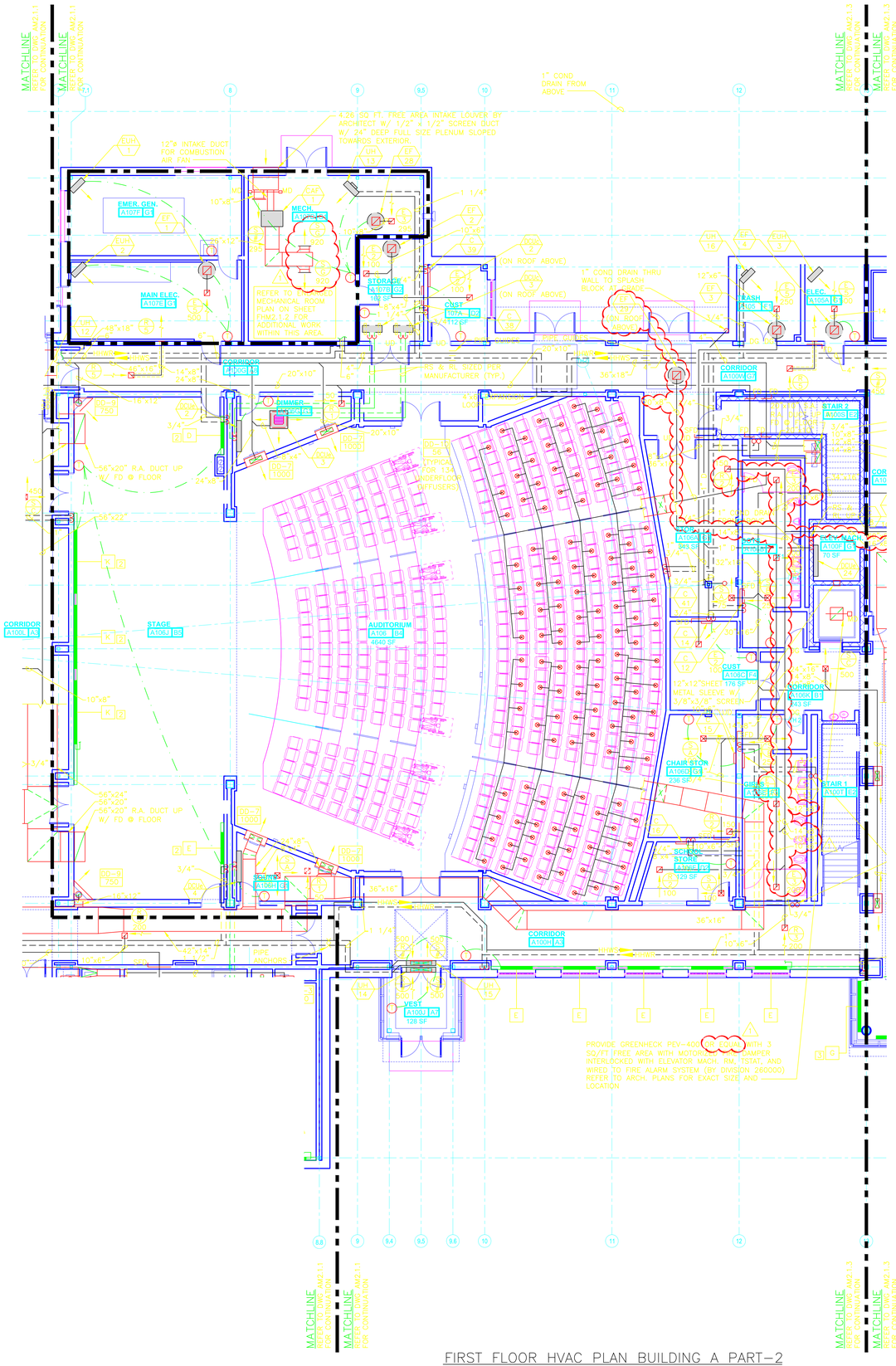
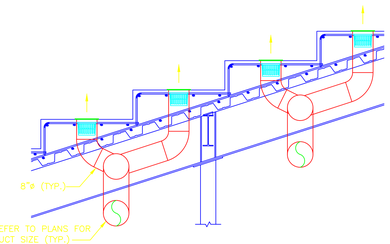


ENLARGED FIRST FLOOR AUDITORIUM UNDERFLOOR DUCTWORK LAYOUT
SCALE: 1/4" = 1'-0"



FIRST FLOOR HVAC PLAN BUILDING A PART–2
SCALE: 1/8" = 1'-0"



UNDERFLOOR DIFFUSERS IN AUDITORIUM SEATING
NOT TO SCALE

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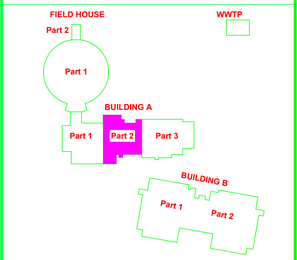
KEYPLAN



Wayland High School
Wayland, MA
First Floor HVAC Plan
Building A Part-2
SCALE: 1/8" = 1'-0"
DRAWN BY: TRB
CHECKED BY: DP

REVISIONS NO.	DATE	REMARKS	BY

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A-M2.1.2

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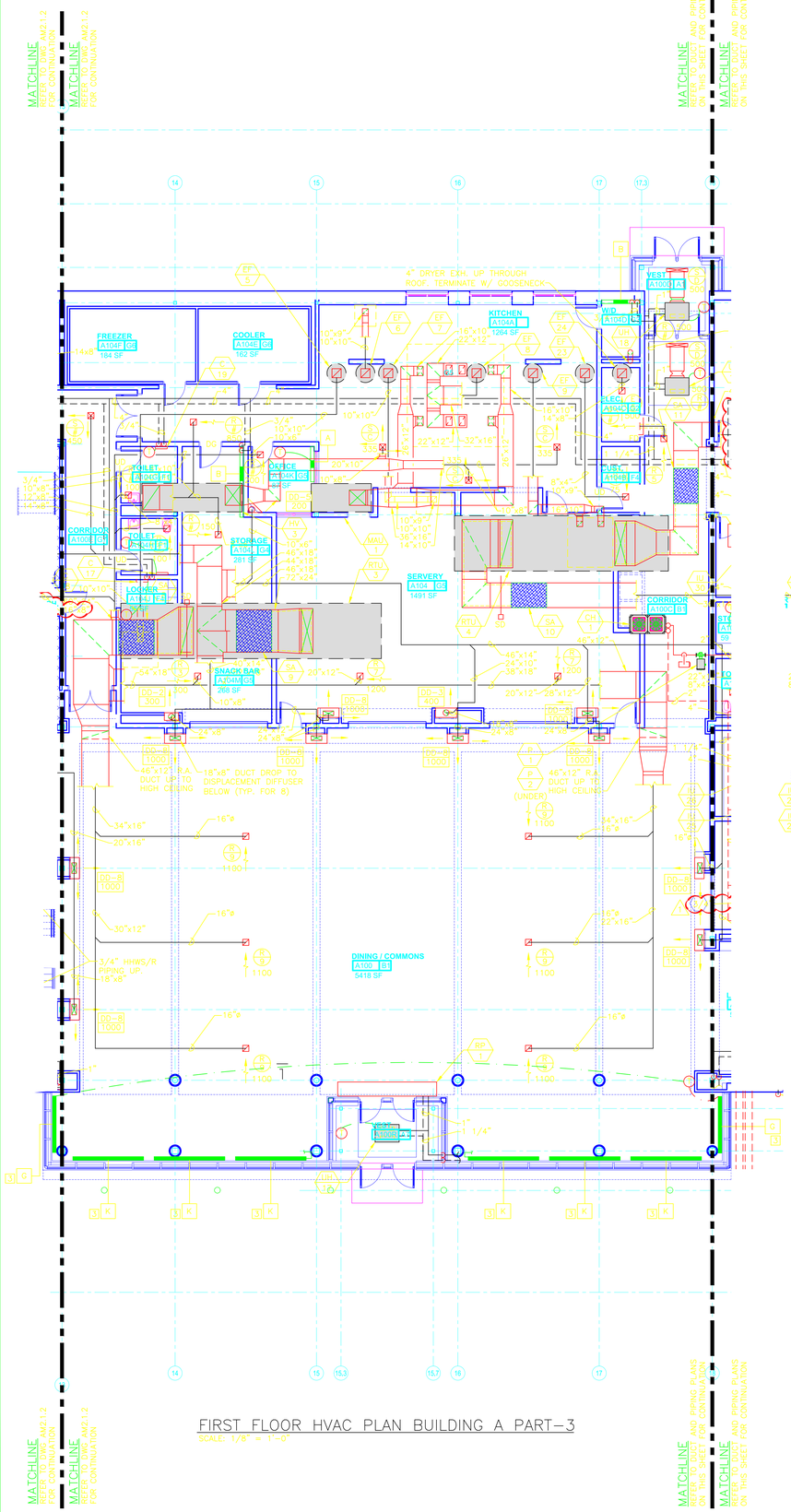

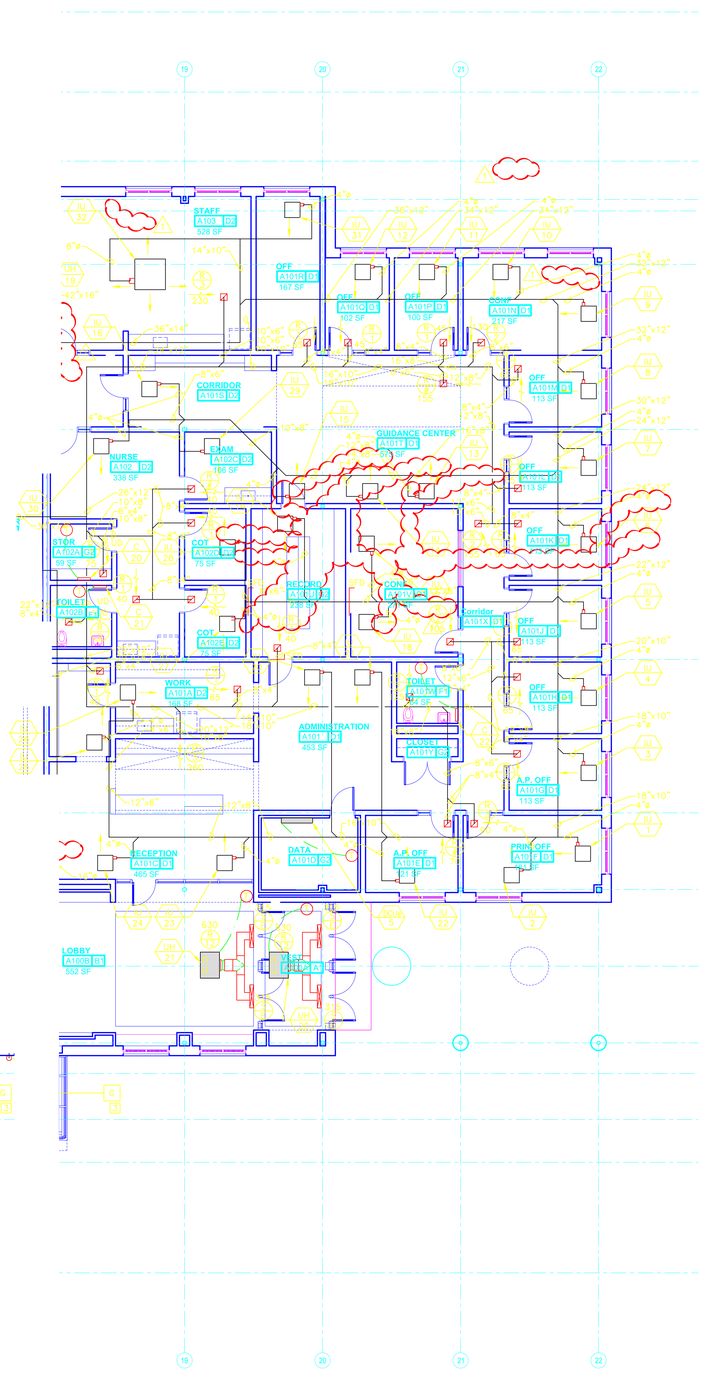

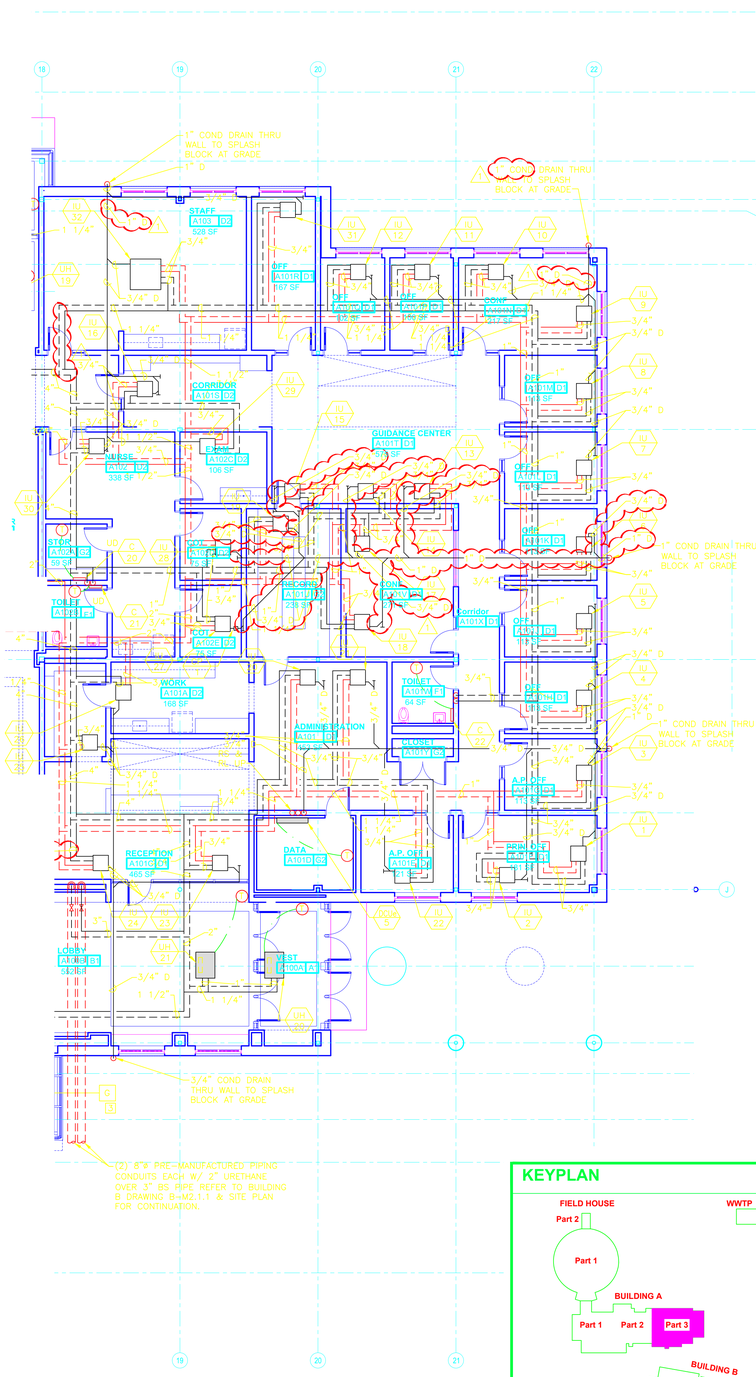

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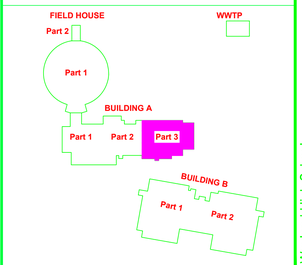

Wayland High School
Wayland, MA
First Floor HVAC Plan
Building A Part-3
SCALE: 1/8" = 1'-0"
DRAWN BY: TRB
CHECKED BY: DP

REVISIONS NO.	DATE	REMARKS	BY

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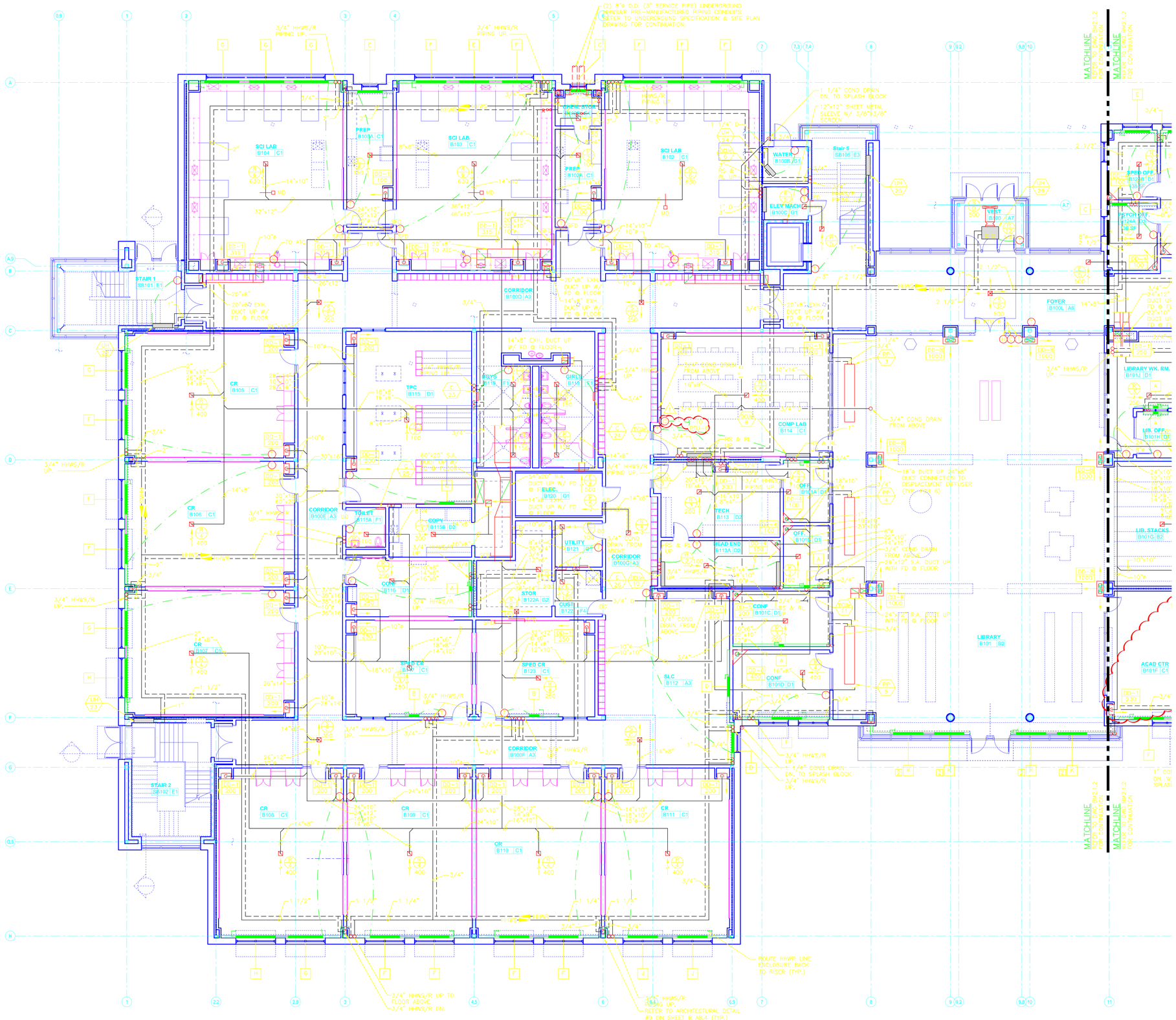

FIRST FLOOR HVAC PLAN BUILDING B PART-1

SCALE: 1/8" = 1'-0"

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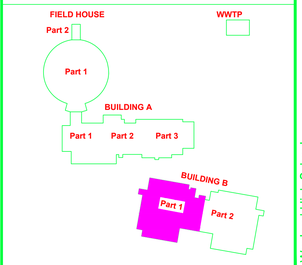

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JOB NUMBER 636409

Wayland High School
Wayland, MA
First Floor HVAC Plan
Building B Part-1
SCALE: 1/8" = 1'-0"
DRAWN BY: TRB
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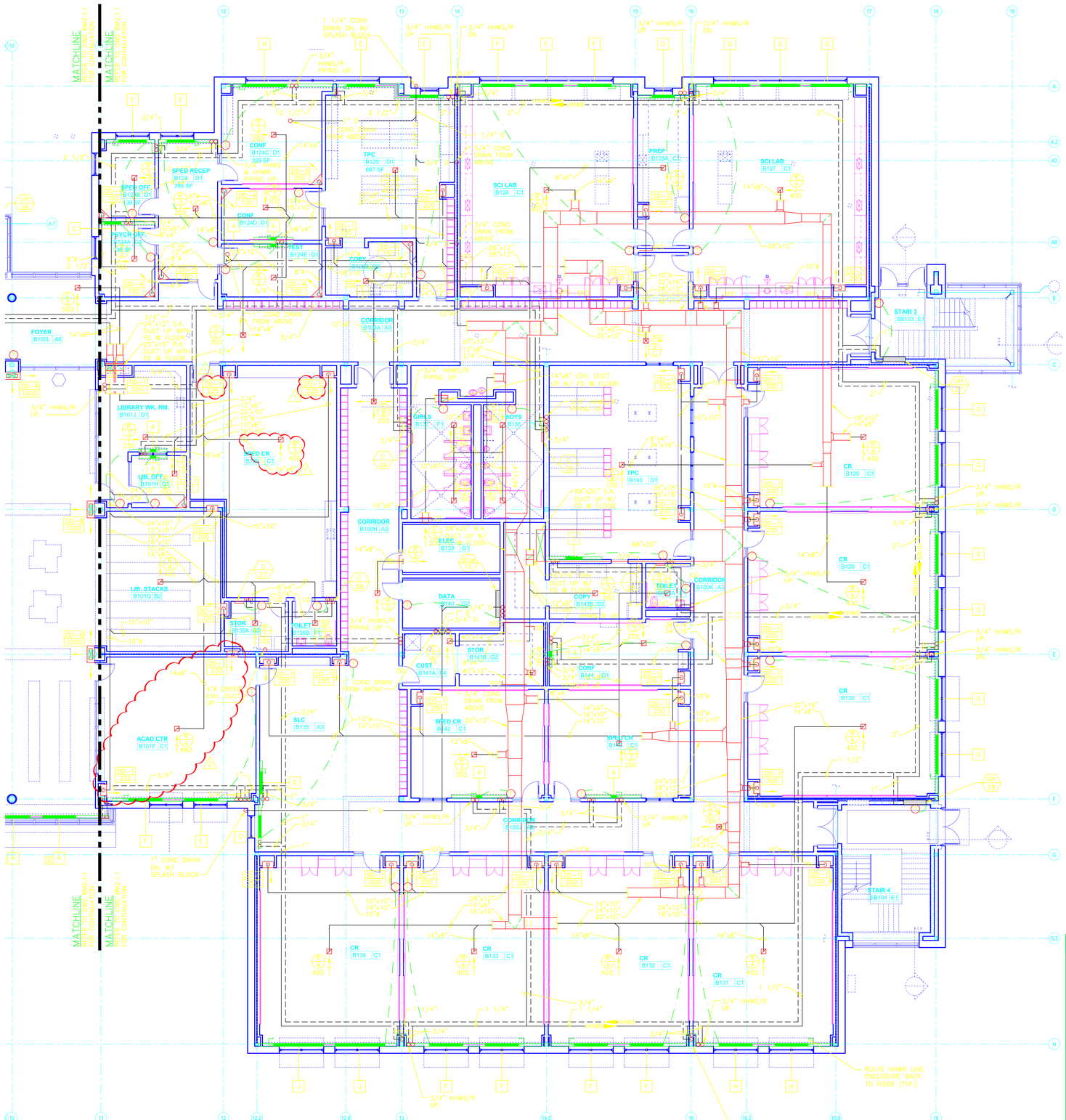

FIRST FLOOR HVAC PLAN BUILDING B PART–2

SCALE: 1/8" = 1'–0"

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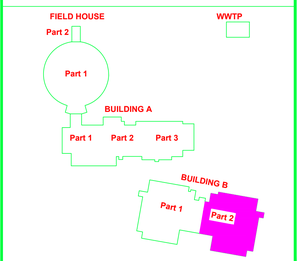
KEYPLAN



Wayland High School
Wayland, MA
First Floor HVAC Plan
Building B Part-2

SCALE: 1/8" = 1'-0" DRAWN BY: TRB CHECKED BY: DP

REVISIONS NO.	DATE	REMARKS	BY

DRAWING NUMBER
B-M2.1.2

JOB NUMBER 426400

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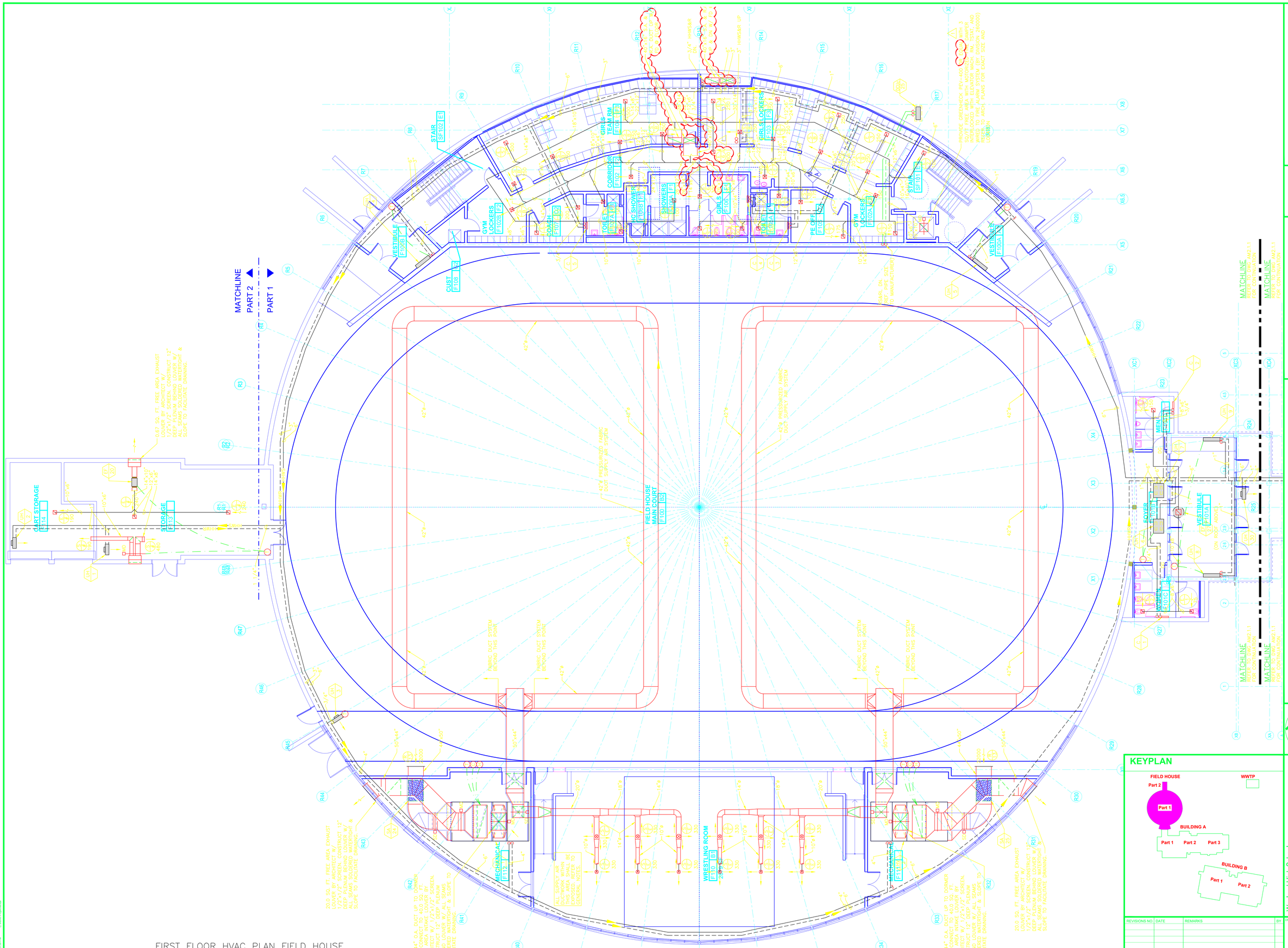

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Wayland High School
Wayland, MA
First Floor HVAC Plan
Field House

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CHECKED BY: DP
SCALE: 1/8" = 1'-0"

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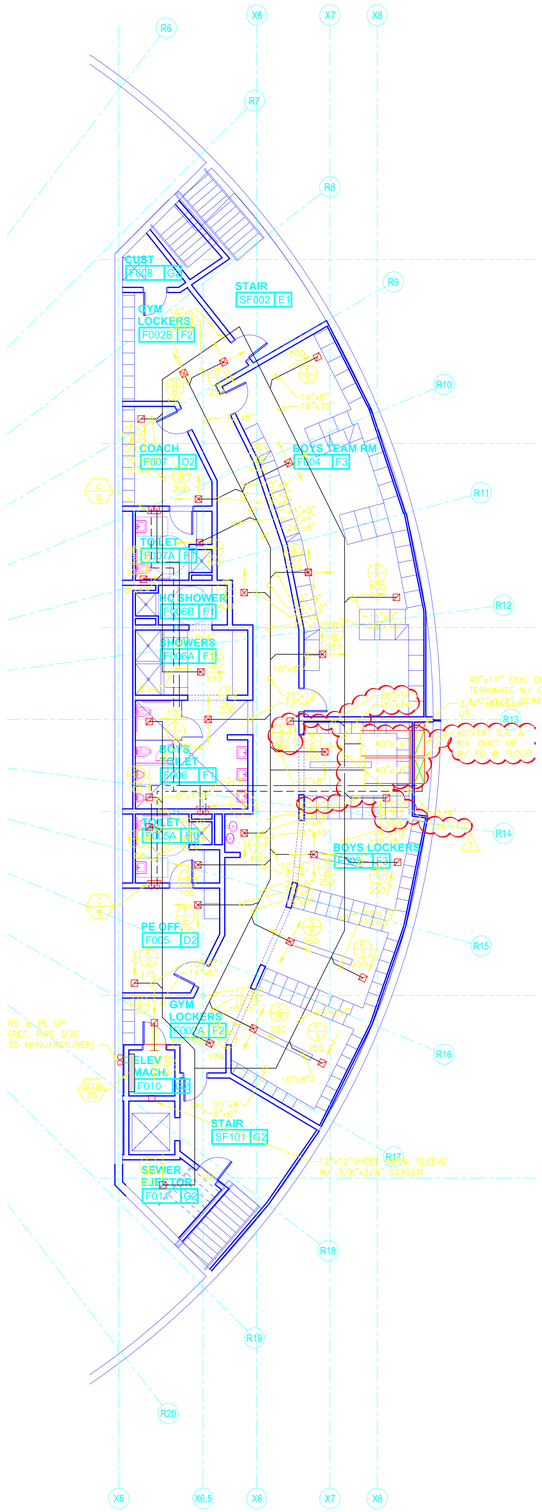
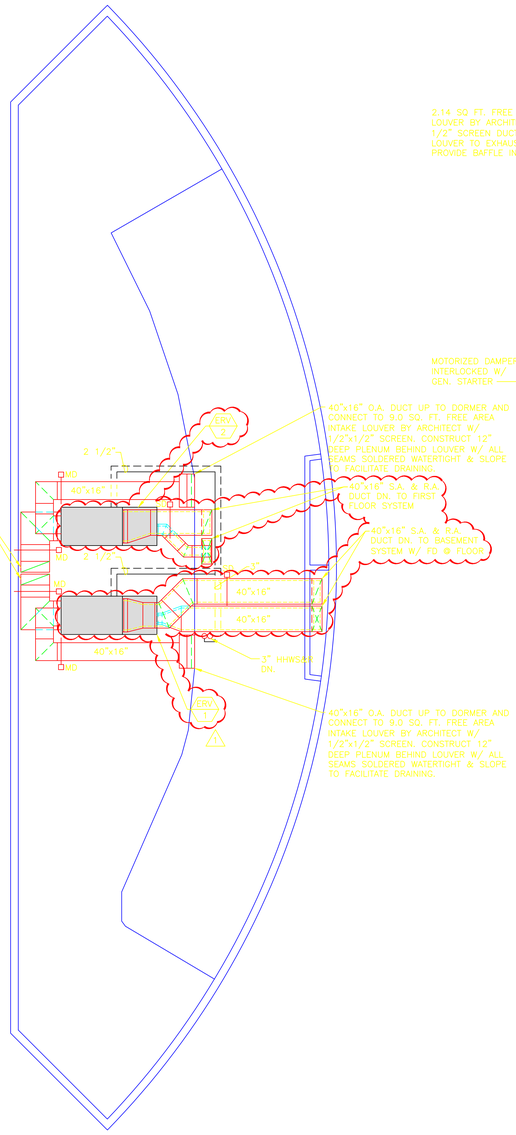


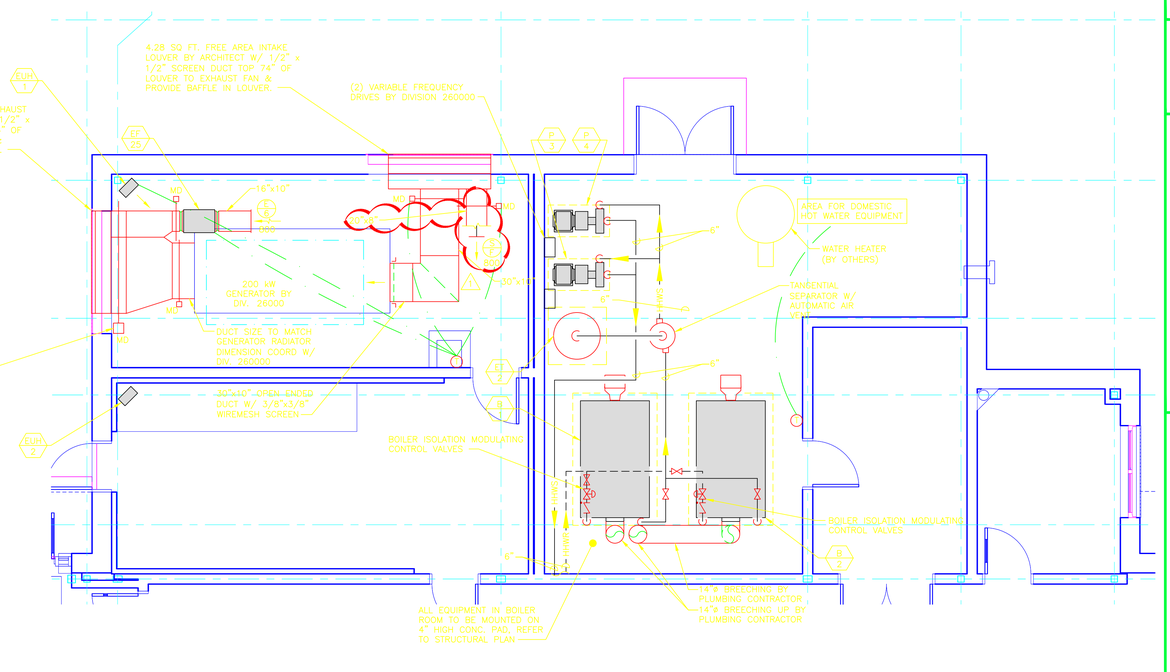
HVAC LOWER FLOOR PLAN FIELD HOUSE

SCALE: 1/8" = 1'-0"



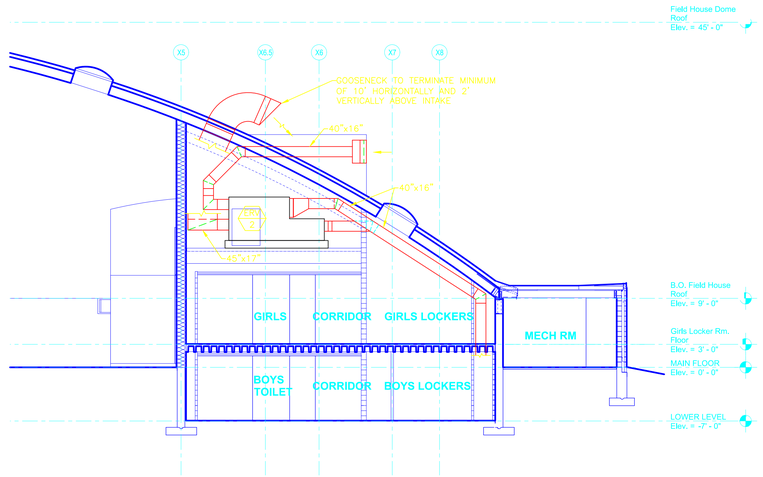
HVAC MECHANICAL MEZZANINE PLAN – PART FH

SCALE: 1/8" = 1'-0"



HVAC ENLARGED MECHANICAL PLAN BUILDING A

SCALE: 1/4" = 1'-0"



HVAC MECHANICAL MEZZANINE SECTION FIELD HOUSE

SCALE: 1/8" = 1'-0"

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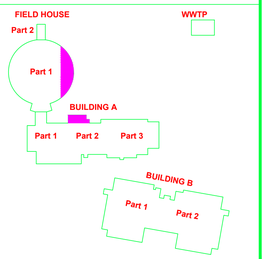

Wayland High School
Wayland, MA

HVAC FIELD HOUSE AND BUILDING A PART PLANS

SCALE: 1/8" = 1'-0" DRAWN BY: TRB CHECKED BY: DP

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TYPICAL DISPLACEMENT CLASSROOM LAYOUT

SCALE: 1/4" = 1'-0"

TYPICAL ADMINISTRATION OFFICE LAYOUT

SCALE: 1/4" = 1'-0"

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PLAN NORTH

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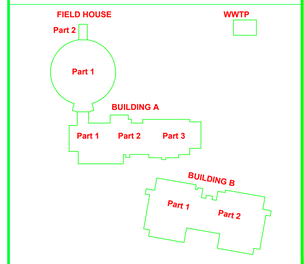

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Wayland, MA
TYPICAL HVAC SPACE LAYOUTS
SCALE: 1/4" = 1'-0"
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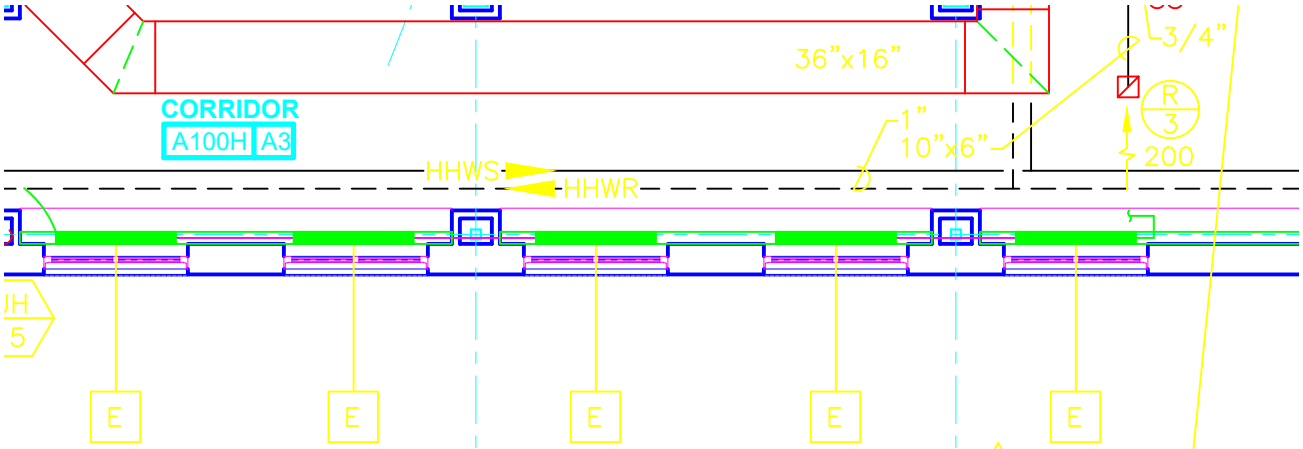

1

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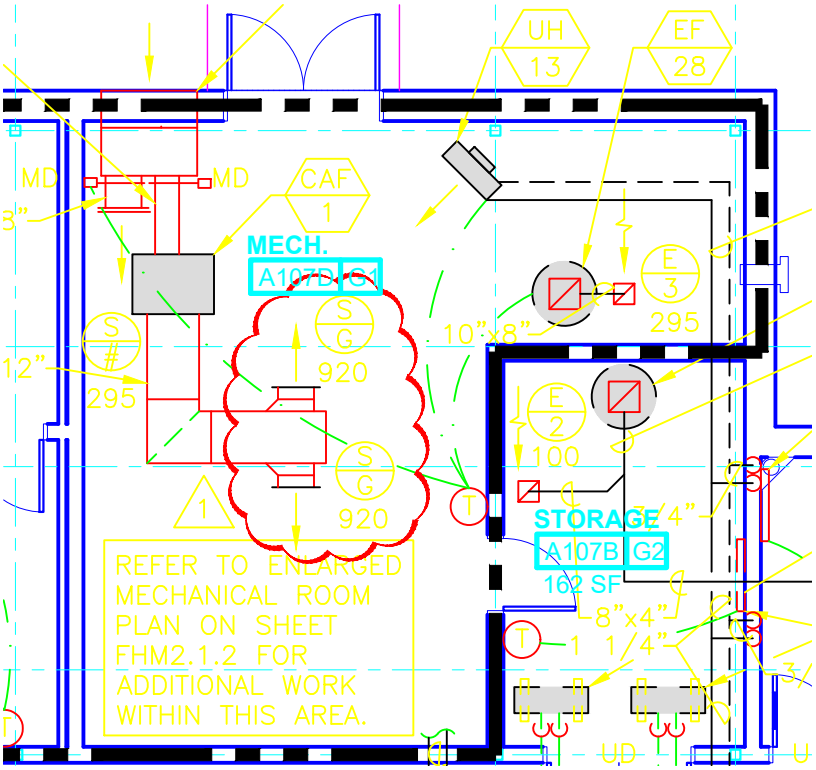
3



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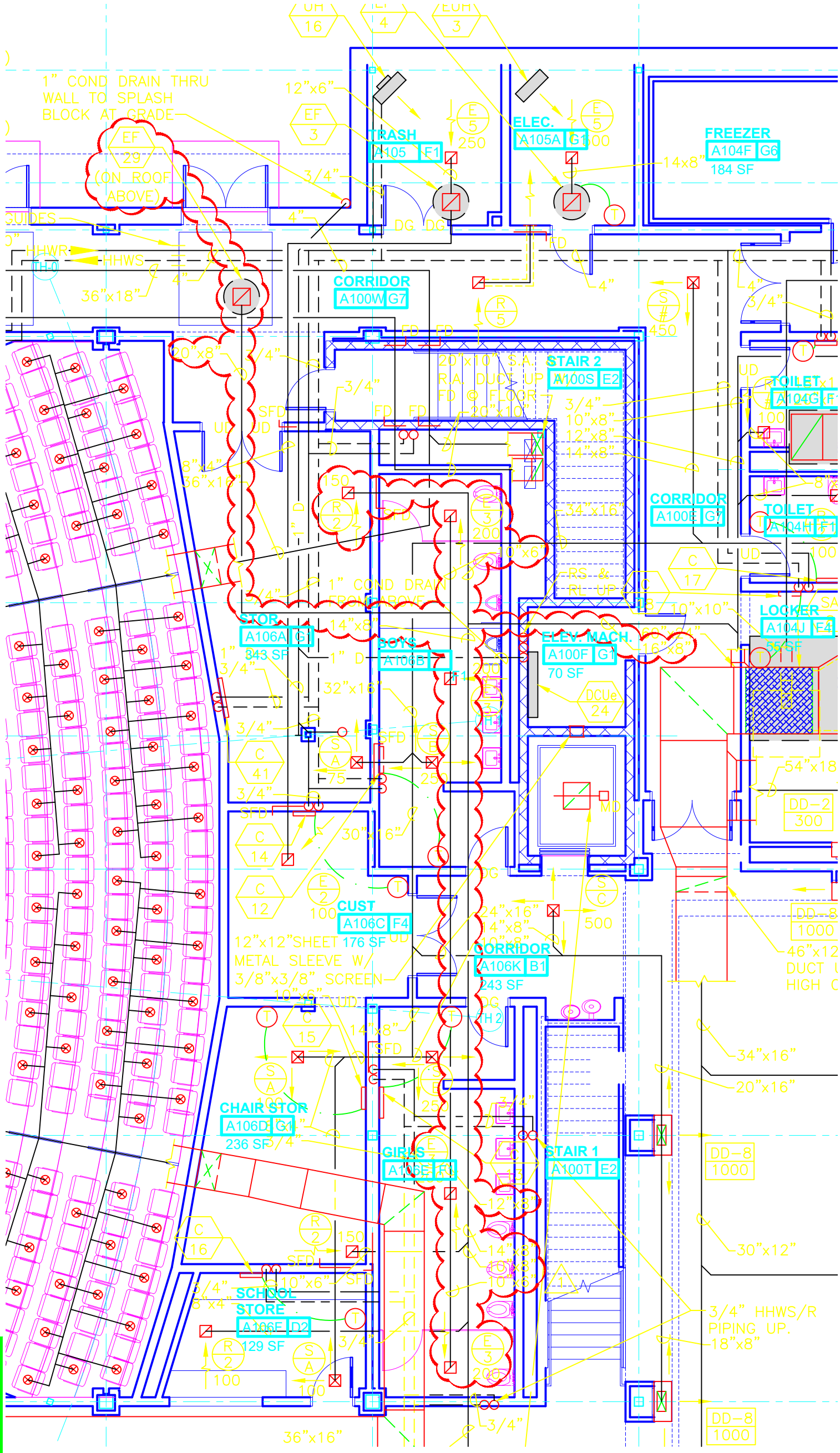

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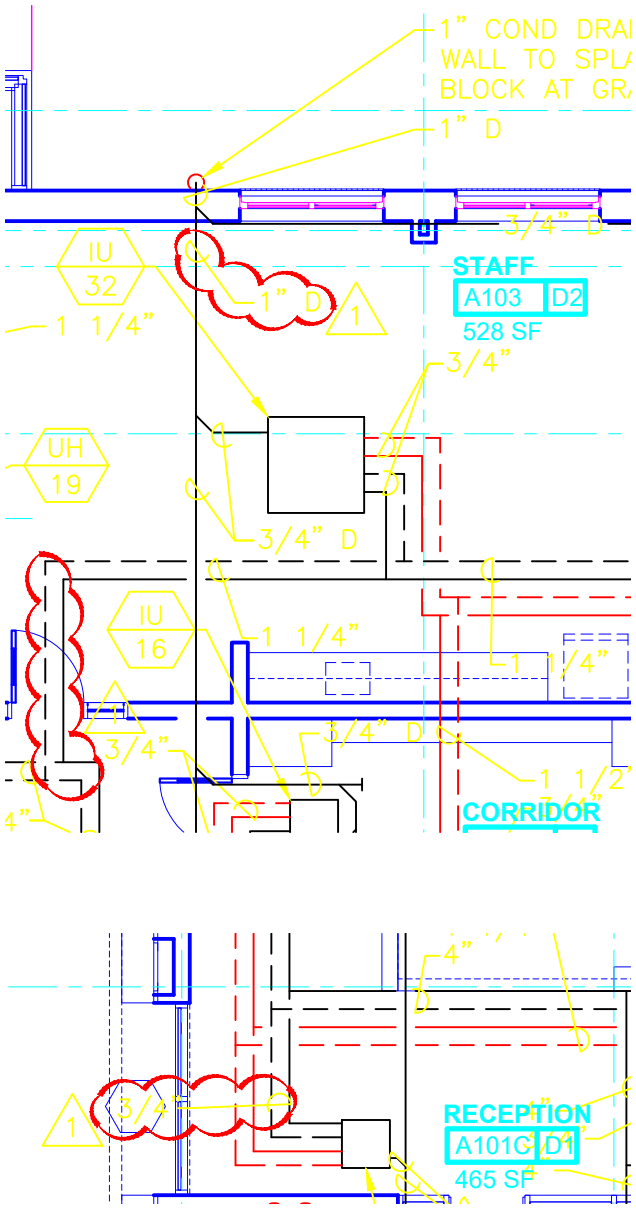
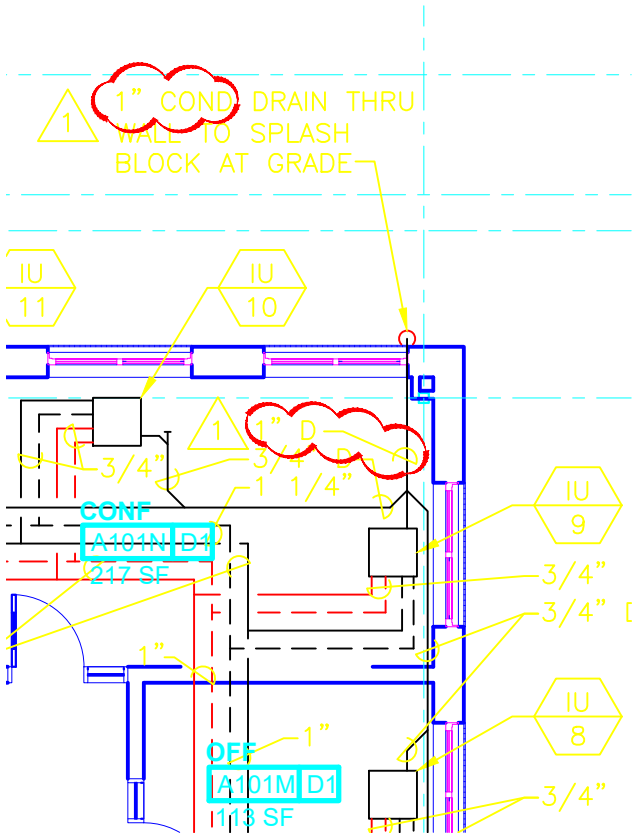
SKM A1.02

JOB NUMBER 426409





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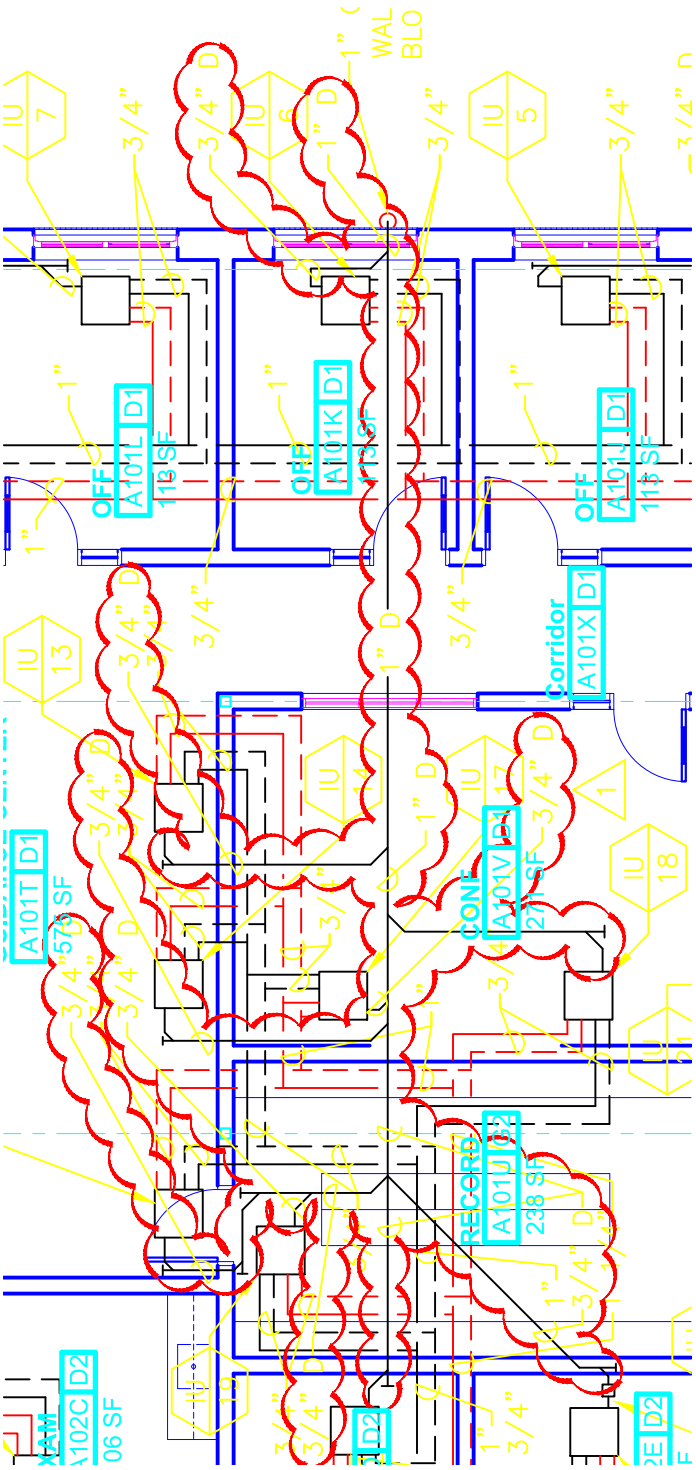

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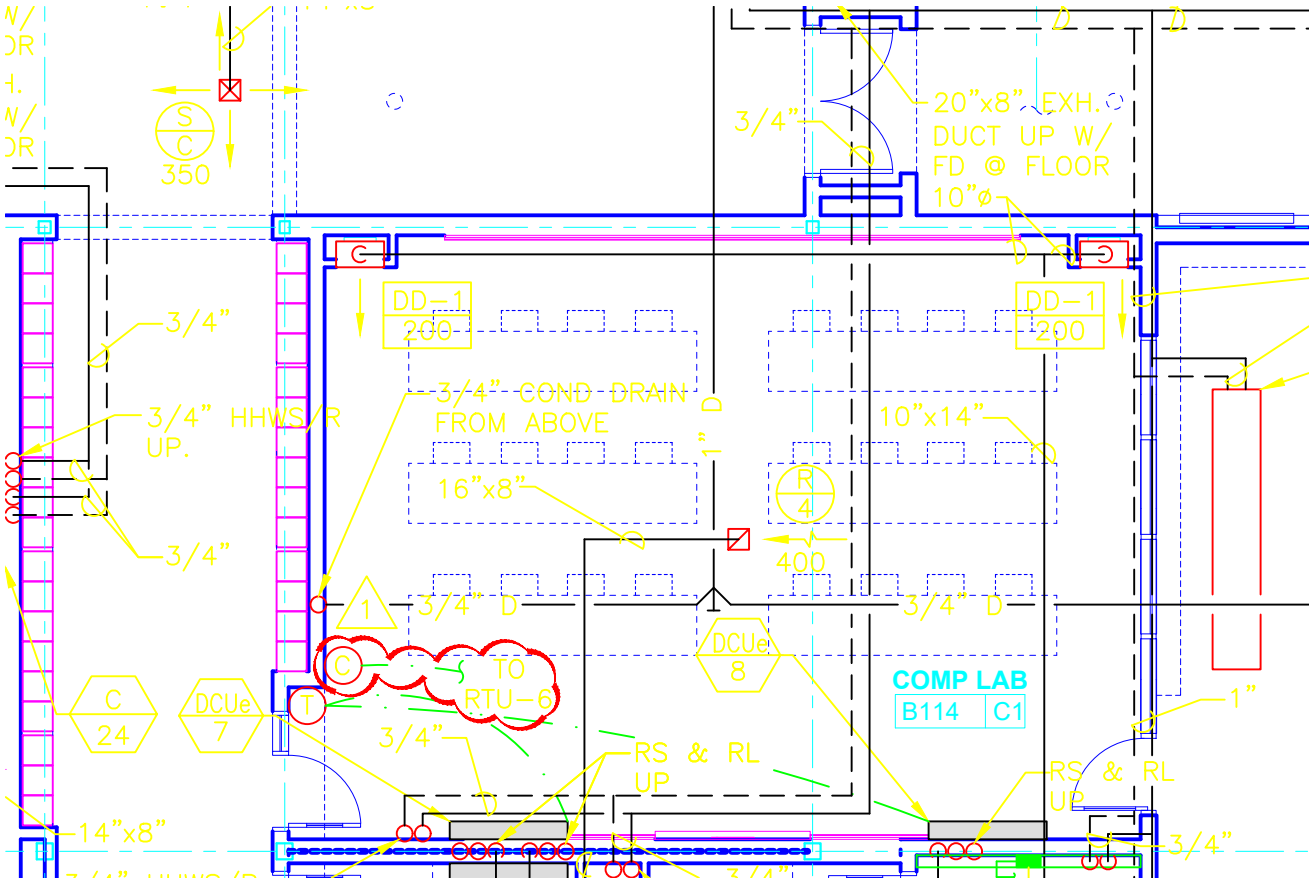

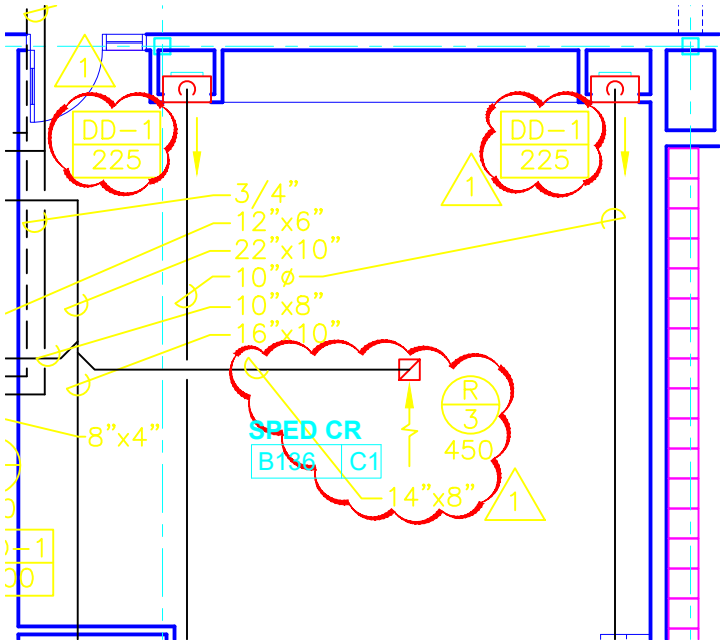

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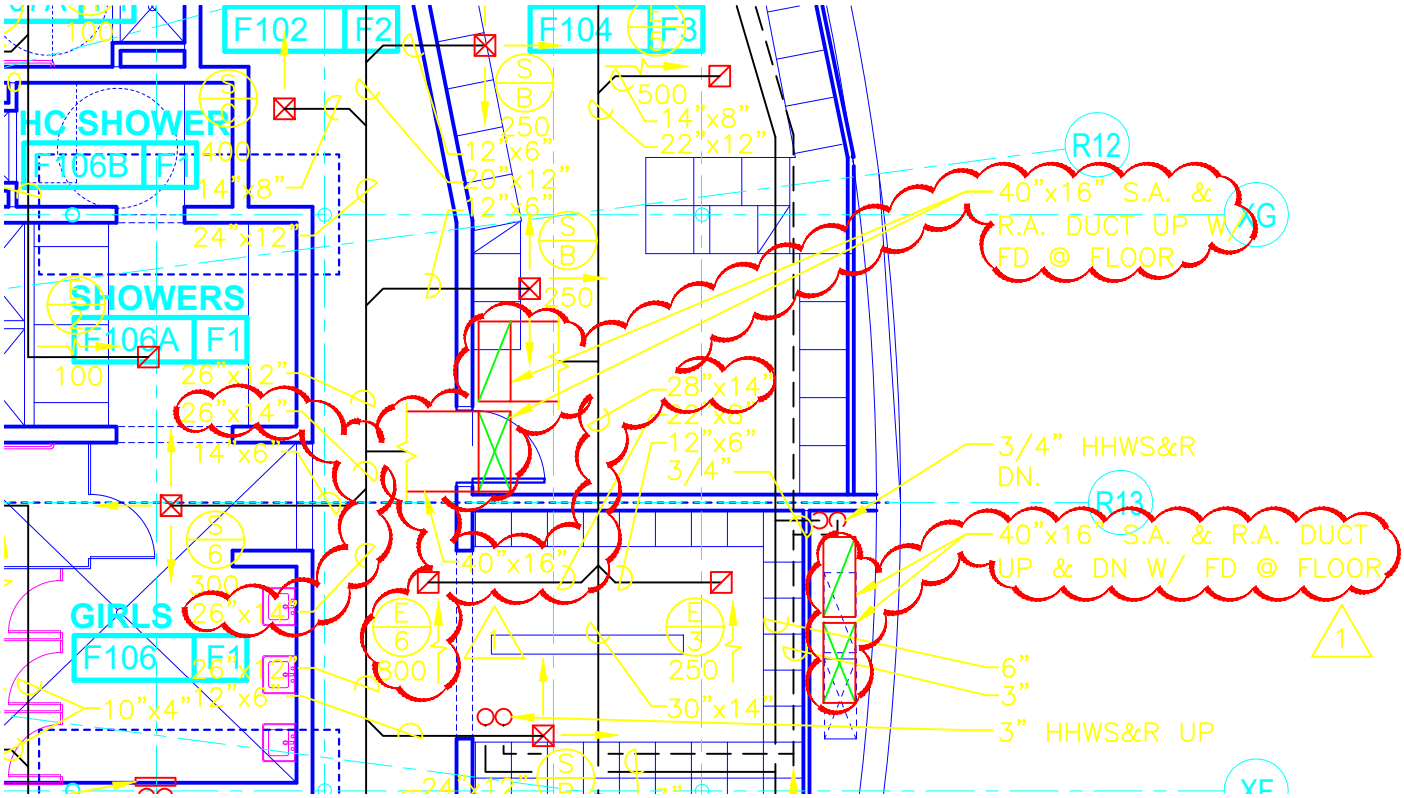

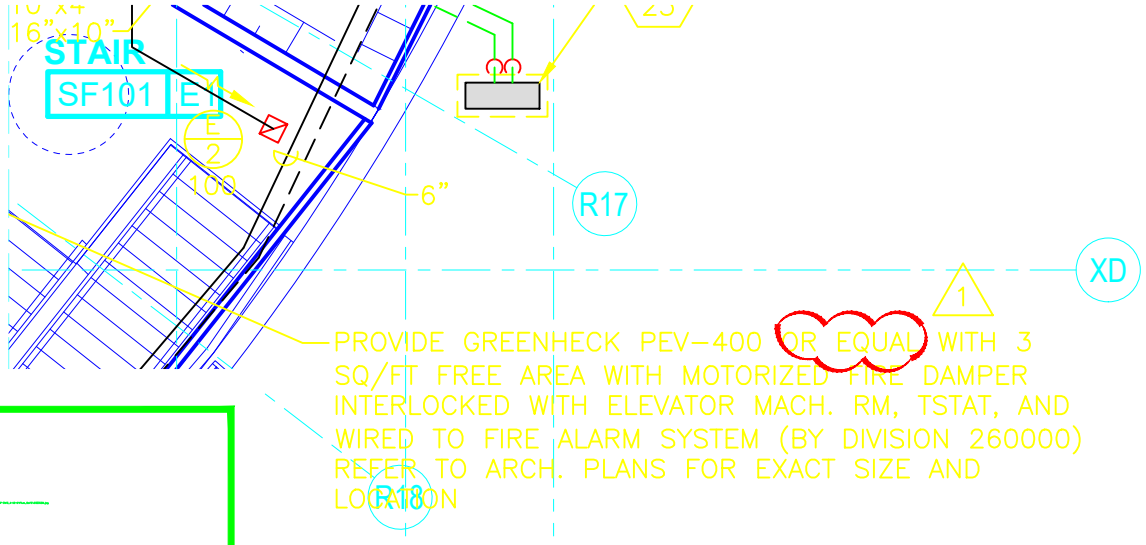

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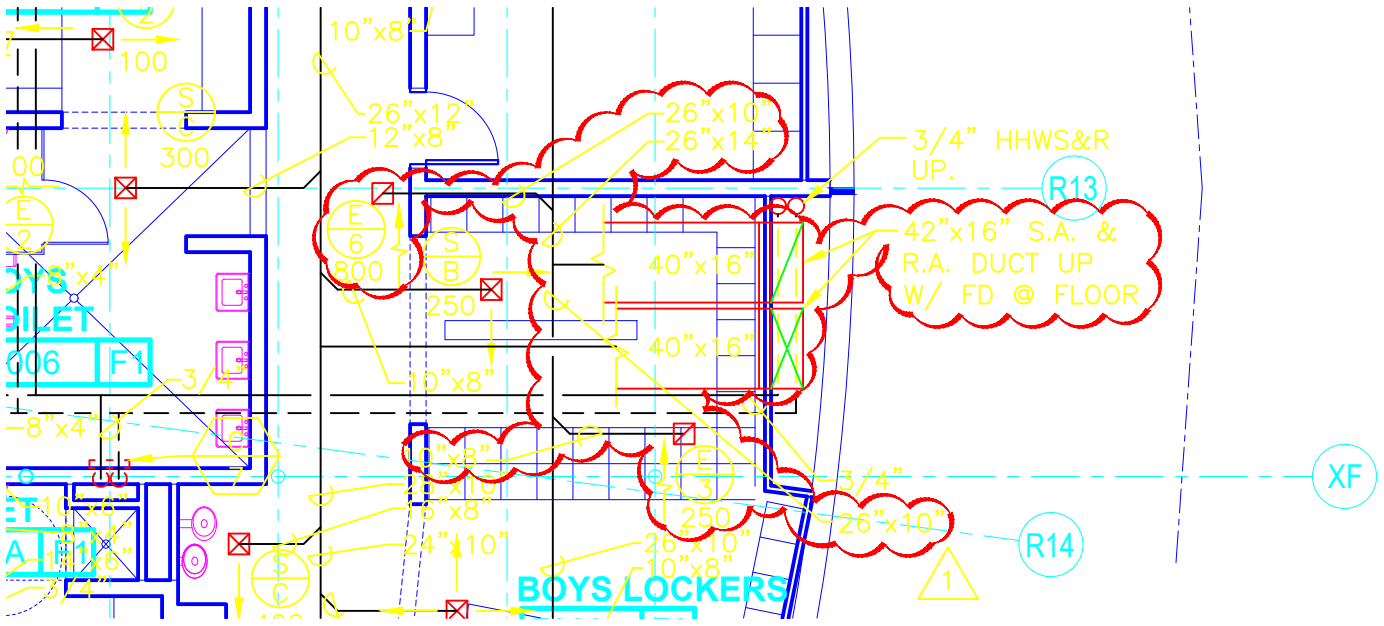

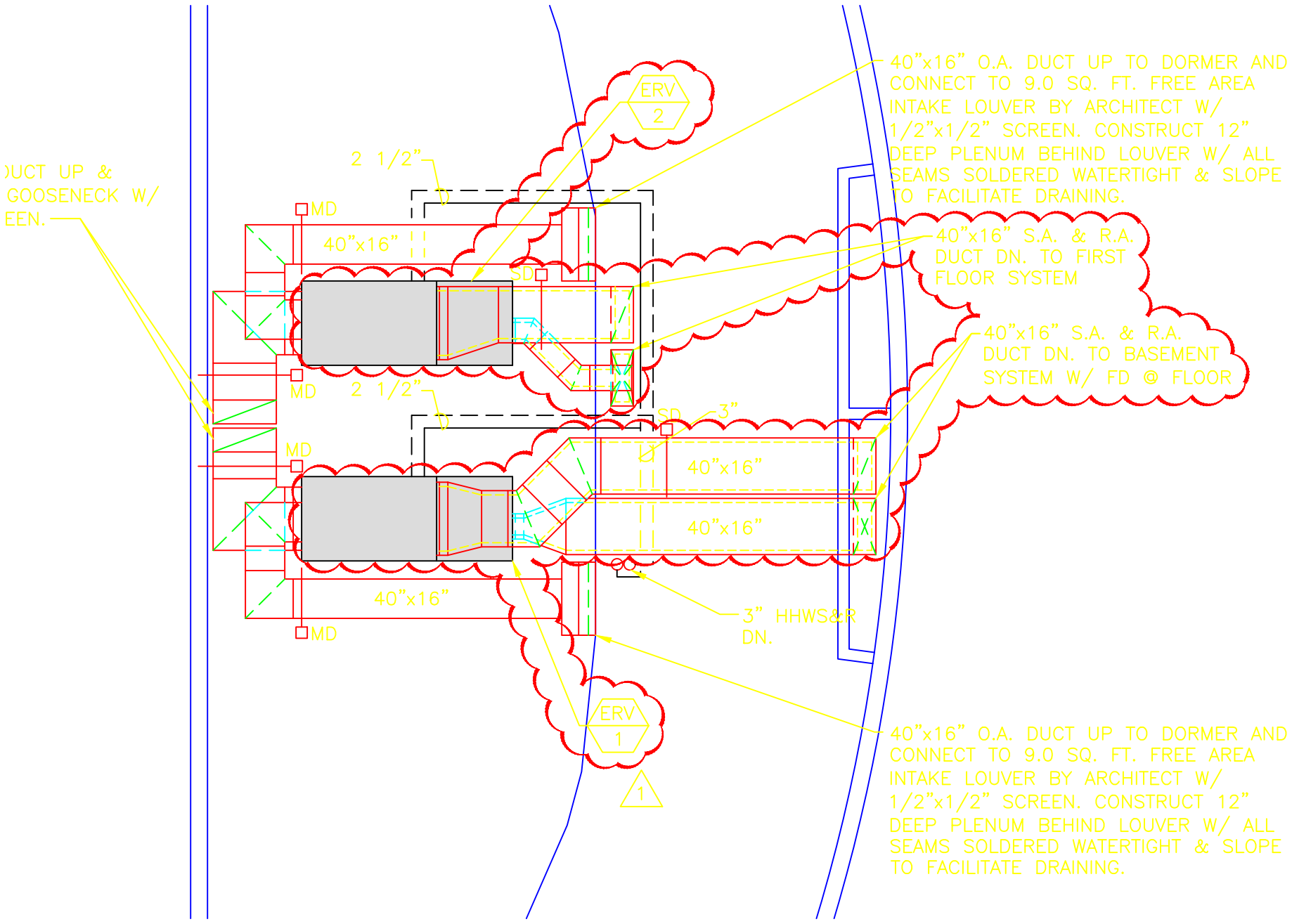

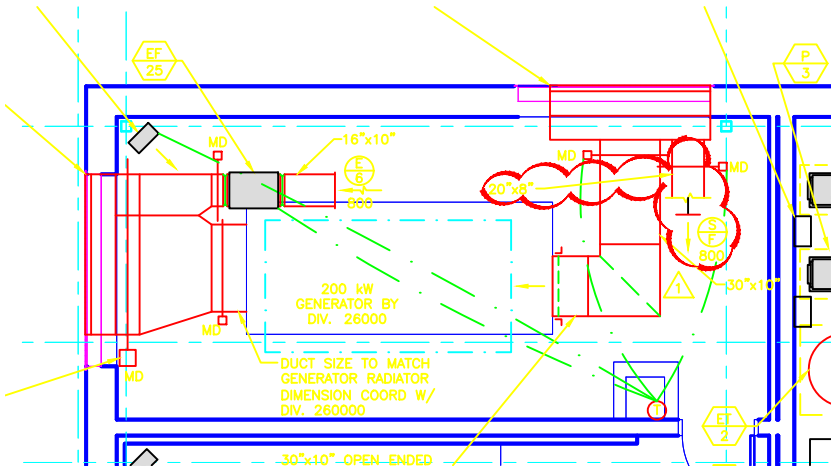

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Wayland High School
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SCALE: ⅛"=1'-0" DATE: 9-16-10 DRAWN: TRB CHECKED: KL

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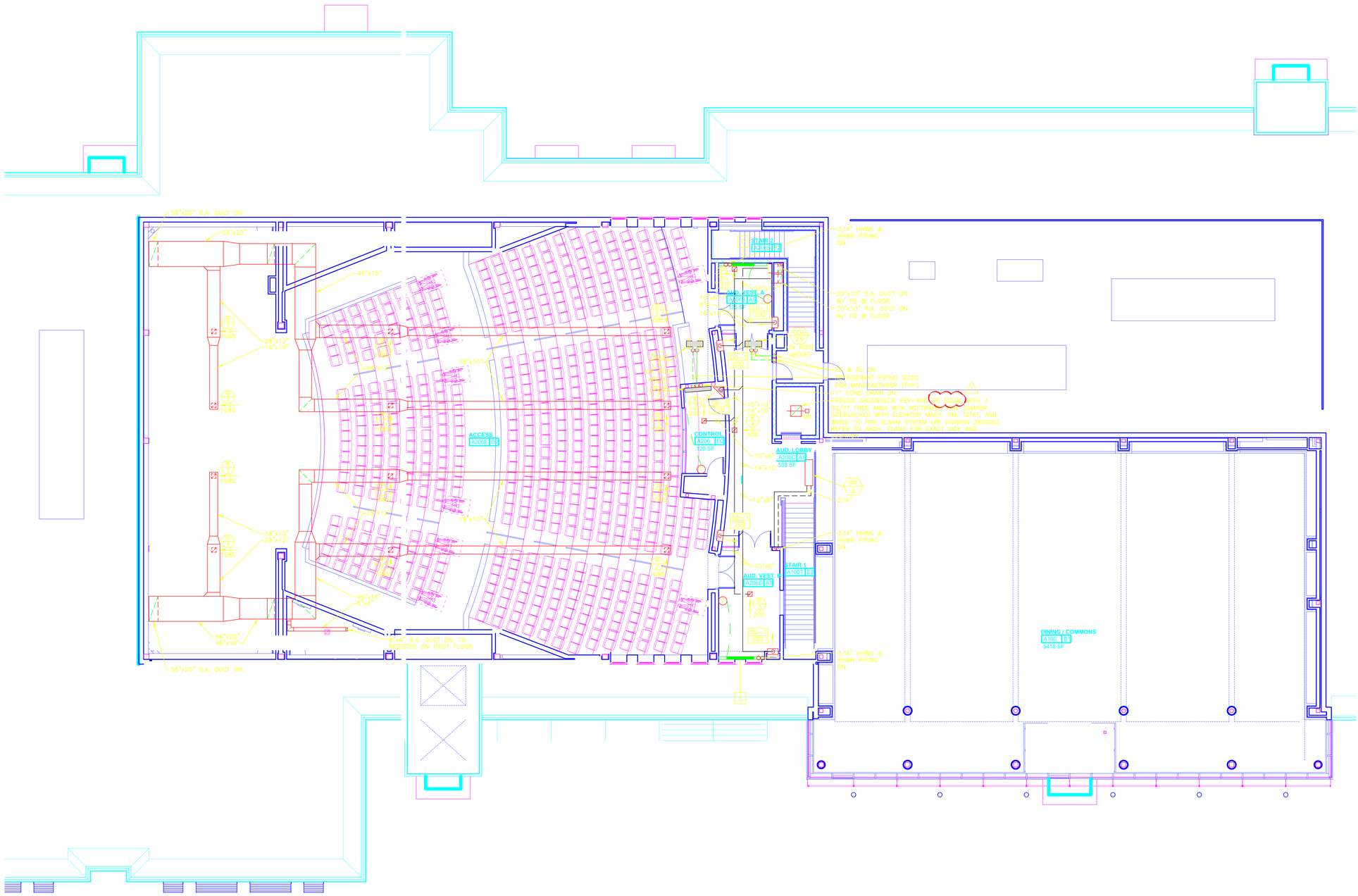

SECOND FLOOR HVAC PLAN BUILDING A

SCALE: 1/8" = 1'-0"

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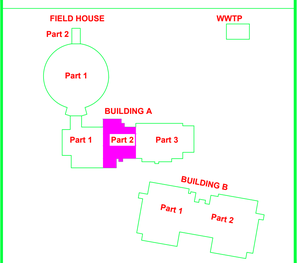

Wayland High School
Wayland, MA
Second Floor HVAC Plan
Building A
SCALE: 1/16" = 1'-0"
DRAWN BY: KL
CHECKED BY: DP

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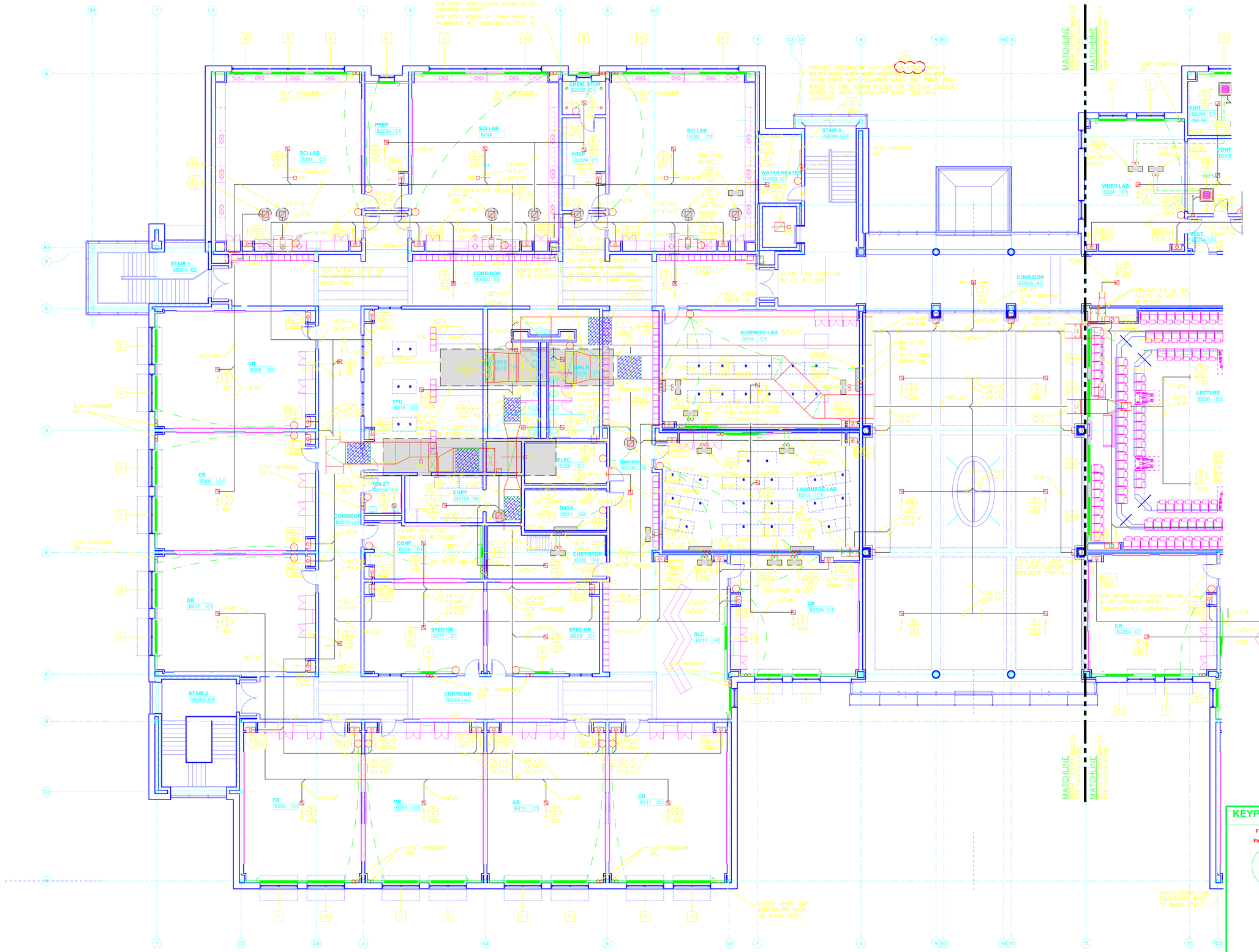
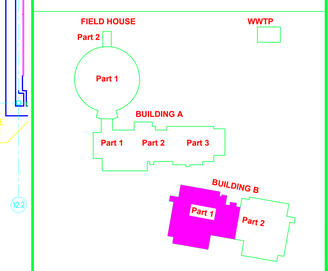


SECOND FLOOR HVAC PLAN BUILDING B PART-1

SCALE: 1/8" = 1'-0"

KEYPLAN



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09/03/2010

Wayland High School
Wayland, MA
Second Floor HVAC Plan
Building B Part-1

SCALE: 1/8" = 1'-0" CHECKED BY: DP
DRAWN BY: KL

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SECOND FLOOR HVAC PLAN BUILDING B PART-2

SCALE: 1/8" = 1'-0"

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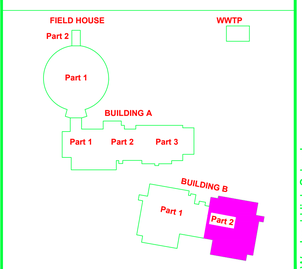
KEYPLAN



Wayland High School
Wayland, MA
Second Floor HVAC Plan
Building B Part-2
SCALE: 1/8" = 1'-0"
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CHECKED BY: DP

REVISIONS NO.	DATE	REMARKS	BY

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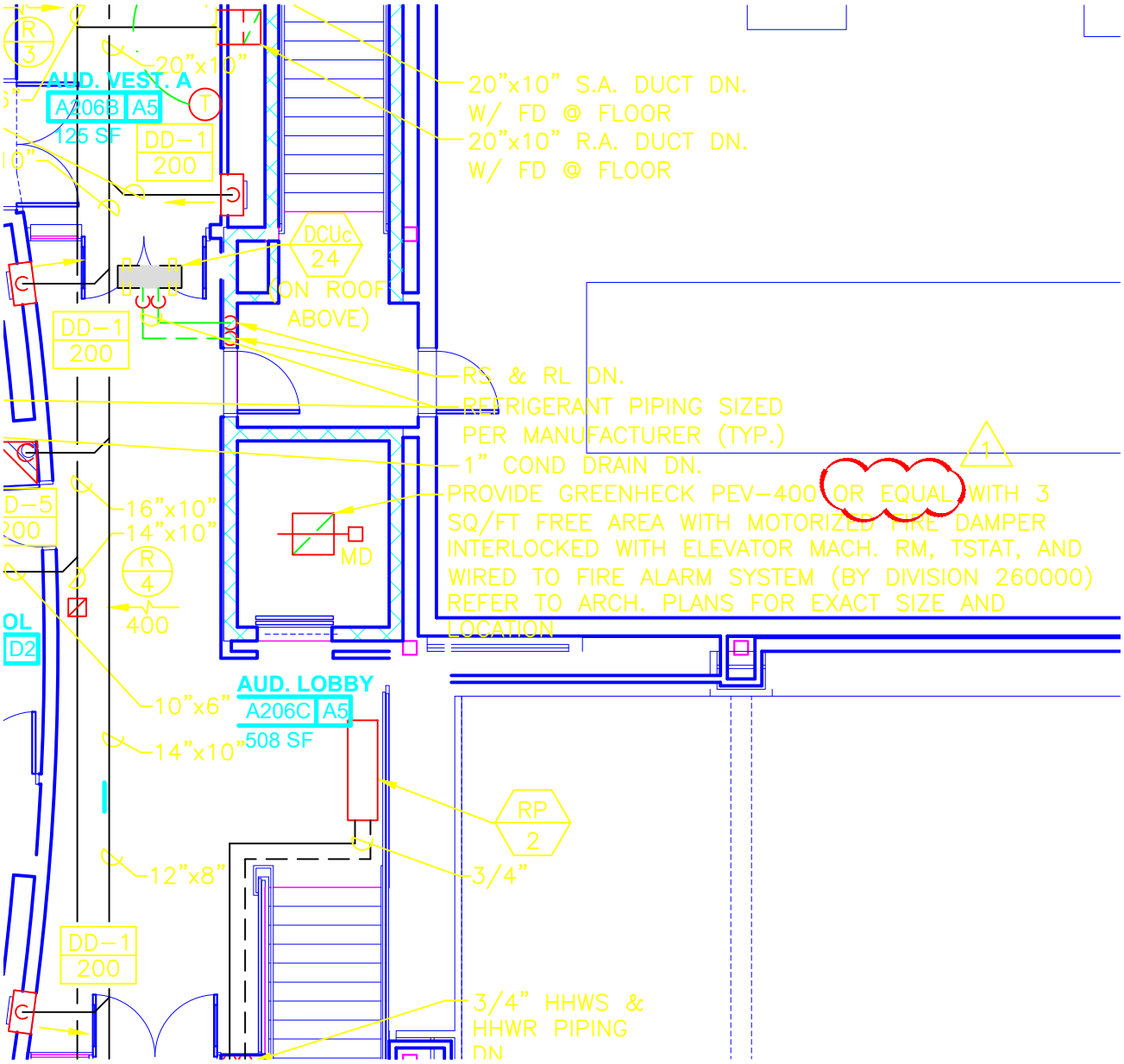

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Wayland High School
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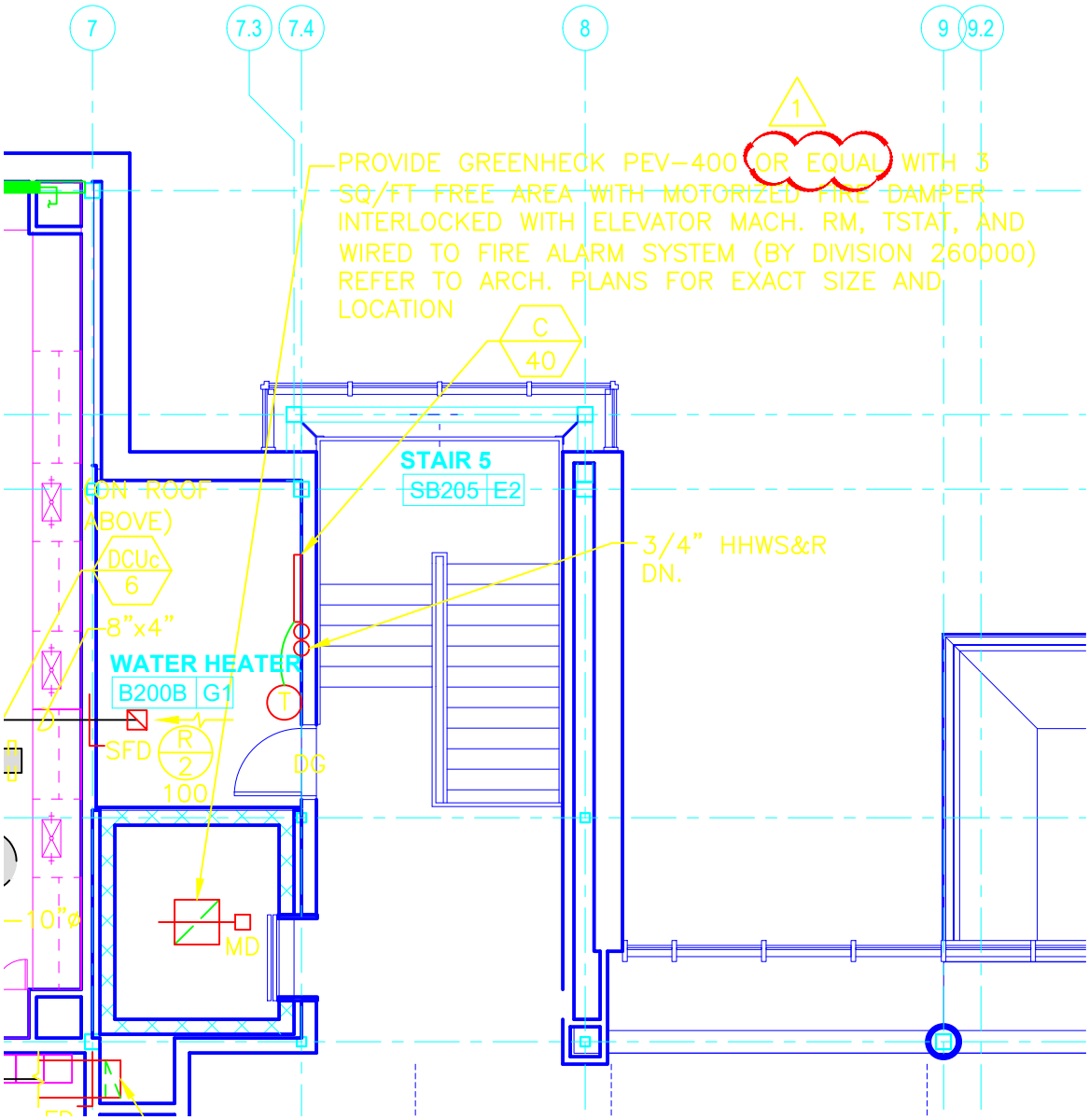

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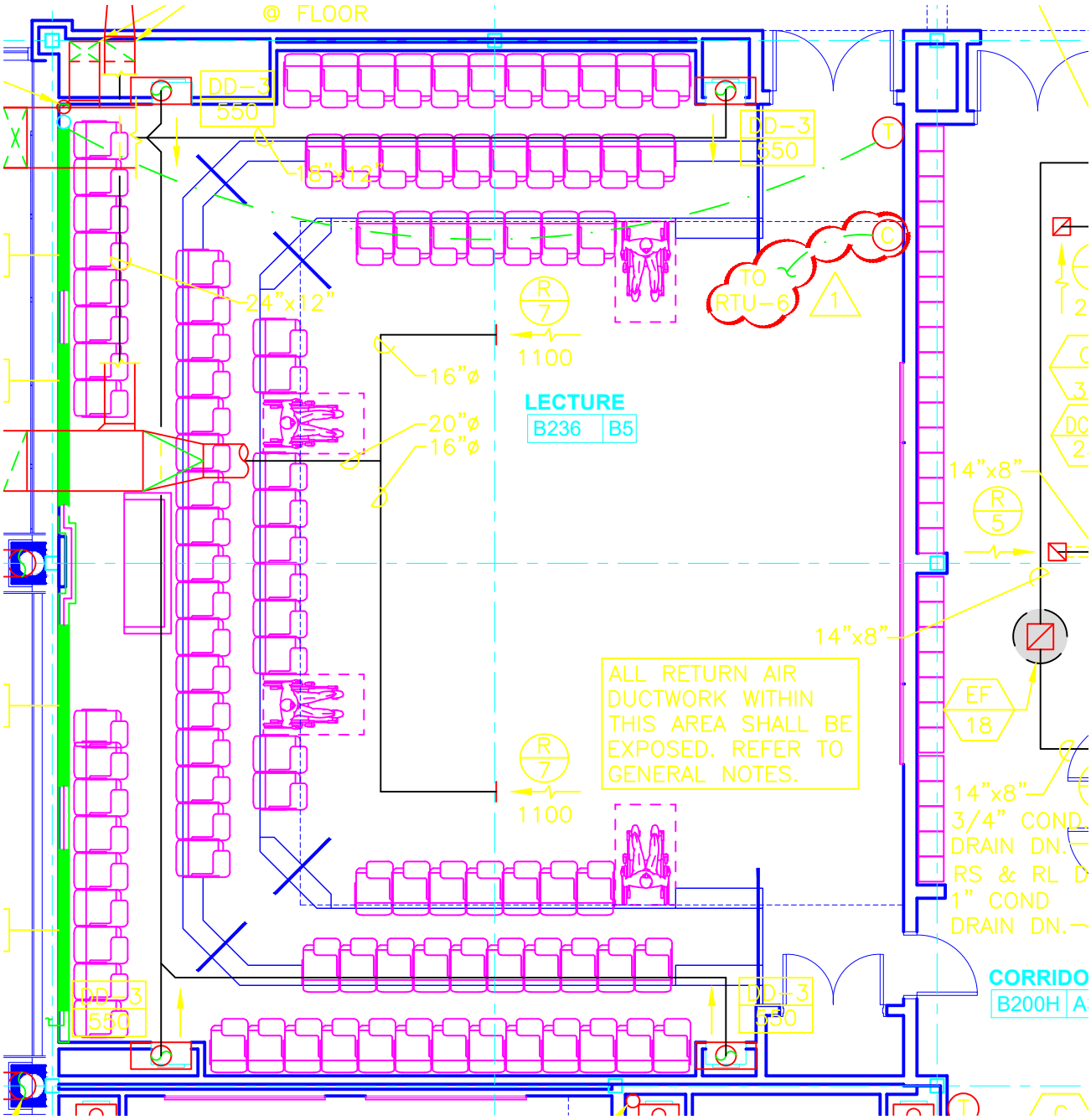

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JOB NUMBER 426409

LEGEND

SYMBOL	ABBREV	DESCRIPTION
	NEW	NEW WORK (DARK)
	EX	EXISTING WORK (LIGHT)
	S/W	SOIL/WASTE ABV. GRADE
	S/W	SOIL/WASTE UNDERGROUND
	V	VENT ABV. GRADE
	V	VENT UNDERGROUND
AW	AW	ACID WASTE ABV. GRADE
AW	AW	ACID WASTE UNDERGROUND
AV	AV	ACID VENT ABV. GRADE
AV	AV	ACID VENT UNDERGROUND
KW	GW	KITCHEN GREASE WASTE ABV. GROUND
KW	GW	KITCHEN GREASE WASTE UNDERGROUND
KW	GW	KITCHEN GREASE WASTE ABV. GROUND
KW	GW	KITCHEN GREASE WASTE UNDERGROUND
IW	IW	INDIRECT WASTE
RL	RL	RAIN LEADER ABV. GRADE
RL	RL	RAIN LEADER UNDERGROUND
CW	CW	COLD WATER
HW	HW	HOT WATER
HWR	HWR	HOT WATER RETURN
140° HW	140° HW	HOT WATER 140°F
140° HWR	140° HWR	HOT WATER RETURN 140°F
CA	CA	COMPRESSED AIR
GW	GW	GASOLINE INTERCEPTOR VENT ABV. GR.
GW	GW	GASOLINE INTERCEPTOR VENT UNDERGR.
G	G	FUEL GAS PIPING
NPCW	NPCW	NON-POTABLE COLD WATER
NPHW	NPHW	NON-POTABLE HOT WATER
NPHWR	NPHWR	NON-POTABLE HOT WATER RETURN
T	T	TEMPERED WATER
F	F	FIRE LINE UNDERGROUND
DP,DN		PIPE DROP OR DOWN
UP		PIPE RISE OR UP
		TEE, LOOKING DOWN
		CAP ON END OF PIPE
FD RD AD		FLOOR DRAIN, ROOF DRAIN, AREA DRAIN
		STRAINER
		UNION
	CO	CLEANOUT
	DCO	DANDY CLEANOUT
	FCO	FLOOR CLEANOUT
	PG/TG	PRESSURE GAGE/TEMPERATURE GAGE
SA	SA	SHOCK ABSORBER
		BALANCING VALVE
BV	BV	BALL VALVE
CV	CV	CHECK VALVE
		GAS COCK
GV	GV	GATE VALVE
SCV	SCV	SUPERVISED CONTROL VALVE
PRV	PRV	PRESSURE REGULATING VALVE
		BUTTERFLY VALVE
		GAS COCK LUBRICATED
		GLOBE VALVE
	VOV	VALVE ON VERTICAL
	FT	P-TRAP
	S&W	STOP & WASTE VALVE
	EL	EXPANSION LOOP
		PIPE GUIDE
		PIPE ANCHOR
		FLOW IN DIRECTION OF ARROW
	HB/WH	HOSE BIBB/WALL HYDRANT
	EX	EXISTING
		CONNECT TO EXISTING
	TYP.	TYPICAL
	AC	CONCEALED ABOVE CEILING
	ACB	CONCEALED ABOVE CEILING BELOW
	EC	EXPOSED AT CEILING
	@OB	EXPOSED AT CEILING BELOW
	FFE	FINISHED FLOOR ELEVATION
	INV	INVERT ELEVATION
	VTR	VENT THRU ROOF
	AVTR	ACID VENT THRU ROOF
	AP	ACCESS PANEL
	AFF	ABOVE FINISHED FLOOR
	AFG	ABOVE FINISHED GRADE
	FG	FINISHED GRADE
	CI	CAST IRON
	CP	CHROME PLATED
	UC	UNDER COUNTER
	F&I	FURNISH AND INSTALL
	PC	PLUMBING CONTRACTOR
	FPC	FIRE PROTECTION CONTRACTOR
	GC	GENERAL CONTRACTOR
	HVAC	HEAT, VENT & AIR COND. CONTRACTOR
	DCVA	DOUBLE CHECK VALVE ASSEMBLY
	RPBP	REDUCED PRESSURE BACKFLOW PREVENTOR
	STK	STACK
	STP	STANDPIPE
	EXP	EXPOSED
	FBO	FURNISHED BY OTHERS
	MGSV	MASTER FUEL GAS CONTROL VALVE
	KEC	KITCHEN EQUIPMENT CONTRACTOR

NOTE: NOT ALL SYMBOLS ARE APPLICABLE TO THIS PROJECT

GENERAL NOTES

1. THE PLUMBING DRAWINGS ARE DIAGRAMMATIC AND ARE TO BE USED FOR THE PURPOSE OF ESTABLISHING GENERAL LOCATIONS OF PIPING RUNS, SIZES OF PIPING, AND QUANTITIES OF FIXTURES AND EQUIPMENT TO BE FURNISHED HEREIN. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS FOR EXACT LOCATIONS OF ALL PLUMBING FIXTURES, AND EQUIPMENT, INCLUDING FLOOR DRAINS, AND MOUNTING HEIGHTS. IN THE EVENT OF CONFLICT OR IF DIMENSIONS ARE NOT SHOWN, OBTAIN FIELD DIRECTIVE FROM THE ARCHITECT AS TO THE LOCATIONS OF ALL VISIBLE EQUIPMENT. PAY PARTICULAR CARE TO COORDINATE WITH THE ARCHITECT'S FIELD REPRESENTATIVE ALL FLOOR DRAIN AND FLOOR CLEANOUT LOCATIONS.
2. ALL PIPING SHOWN ON THIS PLAN SHALL BE RUN CONCEALED ABOVE SUSPENDED CEILINGS, IN CHASES, OR IN PARTITIONS UNLESS SPECIFICALLY NOTED OTHERWISE.
3. INSTALL ALL NEW VALVES SO AS TO BE EASILY ACCESSIBLE AND OPERABLE.
4. THE PLUMBING DRAWINGS ARE INTENDED TO INDICATE THE SIZING AND DESIGN FOR THE MAIN SUPPLY AND WASTE PIPING AND FOCUSES ON RUNS AND SIZES OF THE MAIN RISERS, STACKS AND VENT TERMINATION. IT IS NOT INTENDED TO INDICATE EVERY TRAP AND FIXTURE CONNECTION. PARTICULARLY IN THE CASE OF GANG TOILETS AND LABORATORY CASEWORK, CONTRACTOR IS REQUIRED TO PROVIDE ALL CONNECTIONS, TO MAKE ALL CONNECTIONS TO ALL DRAINS AND FIXTURES WHICH ARE SHOWN AND SCHEDULED ON THE PLUMBING DRAWINGS.

PIPE SIZE TO FIXTURE SCHEDULE

P. NO.	FIXTURE	S/W	VENT	CW	HW	REMARKS
P-1	WATER CLOSET	4"	2"	1-1/4"	–	*SUPPLY RISER & AIR CHAMBER 1" STUBOUT TO FLUSH VALVE
P-1A	WATER CLOSET, ACCESSIBLE	4"	2"	1-1/4"	–	*SUPPLY RISER & AIR CHAMBER 1" STUBOUT TO FLUSH VALVE
P-2	URINAL	2"	2"	1"	–	**SUPPLY RISER & AIR CHAMBER 3/4" STUBOUT TO FLUSH VLV.
P-2A	URINAL, ACCESSIBLE	2"	2"	1"	–	**SUPPLY RISER & AIR CHAMBER 3/4" STUBOUT TO FLUSH VLV.
P-3	LAVATORY, ACCESSIBLE	1-1/2"	1-1/2"	1/2"	1/2"	WALL HUNG
P-4	ELECTRIC WATER COOLER	1-1/2"	1-1/2"	1/2"	–	HI/LOW
P-5	MOP RECEPTOR	3"	2"	1/2"	1/2"	
P-6	WHIRLPOOL SUPPLY FITTING	–	–	1/2"	1/2"	F.&I. WATTS 009 R.P.B.P. ON EACH SUPPLY
P-7	SHOWER MASTER MIXING VALVE	–	–	3/4"	3/4"	
P-8	SHOP SINK	2"	2"	1/2"	1/2"	SEDIMENT TRAP
P-8A	SHOP SINK, ACCESSIBLE	2"	2"	1/2"	1/2"	SEDIMENT TRAP
P-9	ART ROOM SINK	2"	2"	1/2"	1/2"	SEDIMENT TRAP
P-10	ART ROOM SINK, ACCESSIBLE	2"	2"	1/2"	1/2"	SEDIMENT TRAP
P-11	NURSE'S SINK	2"	2"	1/2"	1/2"	EYEWASH FITTING
P-12	GREASE INTERCEPTOR	3"	2"	–	–	REFER TO DRAWING FOR SIZE 700/800
P-13	CLOTHES WASHER	2"	2"	1/2"	1/2"	
P-14	MASTER GAS VALVE BOX	–	–	–	–	
P-15	SHOWER	–	–	1/2"	1/2"	2" TYPE "A" FLOOR DRAIN
P-15A	SHOWER, ACCESSIBLE	–	–	1/2"	1/2"	2" TYPE "A" FLOOR DRAIN
P-16	MIXING VALVE	–	–	2"	2"	EMERGENCY SHOWER/EYEWASH STATIONS

PIPE SIZE TO FIXTURE SCHEDULE
SCIENCE & FIXTURES BY SECTION 116000

EQ. NO.	FIXTURE	GAS	W	V	AW	AV	CW	HW	NPCW	NPHW	REMARKS
EQ-1	SINK w/ (2) FAUCETS				2"	2"			(2)½"	1/2"	(2) FAUCETS
EQ-2	STUDENT LAB SINK				2"	2"			1/2"	1/2"	
EQ-3	STUDENT LAB SINK (ADA)	(2)¾"			2"	2"			(2)½"	(2)½"	(2)GOOSENECKS, (2) COCKS
EQ-4	PREP RM. SINK ACCESS.				2"	2"			(2)½"	1/2"	(2) FAUCETS
EQ-5	CLASSROOM SINK				2"	2"			1/2"	1/2"	
**EQ-6	SAFETY CABINET				**2"						½" TEMPERED WATER
EQ-7	FUME HOOD	3/4"			2"	2"			1/2"	1/2"	
EQ-8	SINK ACCESSIBLE		2"	2"			1/2"	1/2"			
EQ-9	GAS TURRET W/ 2 COCKS	3/4"									
*EQ-10	DISHWASHER				2"					*1/2"	½" PRESSURE WASTE
EQ-11	(NOT USED)										
EQ-12	ICE MACHINE w/WTR. FILTER								(2)½"		(2)1"IW TO FLR. DRN.

* CONNECT 1/2" PRESSURE WASTE TO ADJACENT EQ-4

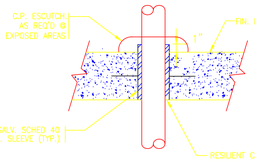
** PIPE EYEWASH BOWL THRU TOE-KICK TOWARD FLOOR DRAIN & MAINTAIN ACCESSIBILITY REQUIREMENTS

SHOCK ABSORBER SCHEDULE

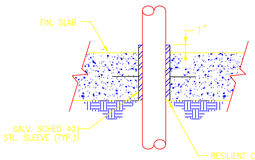
PDI SYMBOL	A	B	C	D	E
ZURN SERIES 1700 OR EQ.	100	200	300	400	500

PLUMBING ELECTRICAL EQUIPMENT

UNIT NO.	UNIT FUNCTION	UNIT LOCATION	MOTOR HP	MOTOR V.	MOTOR PH	MOTOR AMP	REMARKS
WH-1	DOMESTIC HOT WATER	MECH ROOM A107D		208/240	1	3.1	CONTROL POWER, BLOWER, CIRC PUMP
WH-2	DOM. & N.P. HOT WATER	WATER HEATER B200B		208/240	1	3.1	CONTROL POWER, BLOWER, CIRC PUMP
WH-3	NON-POTABLE RECOVERY	WATER HEATER B200B		120	1		1.5KW
WH-4	TEMPERED WTR. RECOVERY	WATER HEATER B200B		120	1		1.5KW
RP-1	RECIRC. 120 HWR	MECH ROOM A107D	1/6	120	1		TIME CLOCK & AQUASTAT
RP-2	RECIRC. 140 HWR	MECH ROOM A107D	1/6	120	1		TIME CLOCK & AQUASTAT
RP-3	RECIRC. 120 HWR	WATER HEATER B200B	1/6	120	1		TIME CLOCK & AQUASTAT
RP-4	NON-POT. 120 RECOVERY	WATER HEATER B200B		120	1	1.5KW	TIME CLOCK & AQUASTAT
RP-5	TEMPERED WTR. RECOVERY	WATER HEATER B200B		120	1	1.5KW	TIME CLOCK & AQUASTAT
FS-1	EM. SHOWER/EYEWASH	SCI. LAB. B102		120	1		CONNECT TO SECURITY SYSTEM
FS-2	EM. SHOWER/EYEWASH	SCI. LAB. B103		120	1		CONNECT TO SECURITY SYSTEM
FS-3	EM. SHOWER/EYEWASH	SCI. LAB. B104		120	1		CONNECT TO SECURITY SYSTEM
FS-4	EM. SHOWER/EYEWASH	SCI. LAB. B126		120	1		CONNECT TO SECURITY SYSTEM
FS-5	EM. SHOWER/EYEWASH	SCI. LAB. B127		120	1		CONNECT TO SECURITY SYSTEM
FS-6	EM. SHOWER/EYEWASH	SCI. LAB. B202		120	1		CONNECT TO SECURITY SYSTEM
FS-7	EM. SHOWER/EYEWASH	SCI. LAB. B203		120	1		CONNECT TO SECURITY SYSTEM
FS-8	EM. SHOWER/EYEWASH	SCI. LAB. B204		120	1		CONNECT TO SECURITY SYSTEM
FS-9	EM. SHOWER/EYEWASH	SCI. LAB. B226		120	1		CONNECT TO SECURITY SYSTEM
FS-10	EM. SHOWER/EYEWASH	SCI. LAB. B227		120	1		CONNECT TO SECURITY SYSTEM
HT-1	HOLDING TANK CONTROLLER	MECH ROOM A107D		120	1		CONTROL POWER, CONN. TO SECURITY SYSTEM
HT-2	HOLDING TANK CONTROLLER	PREP. B126A		120	1		CONTROL POWER, CONN. TO SECURITY SYSTEM
EJ-1	GROUND WATER EJECTOR	CUSTODIAN F002B	(2)¾	480	3		PANEL, (4) FLOAT SW, CONN. TO SECURITY SYS.
SP-1	SEWAGE PUMP	SEWER EJECTOR F011	(2)1½	480	3		PANEL, (4) FLOAT SW, CONN. TO SECURITY SYS.



THRU CONC. FLOORS
N.T.S.



THRU SLAB ON GRADE
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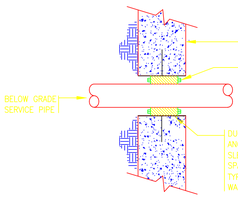
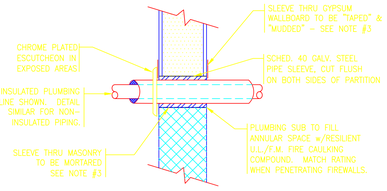


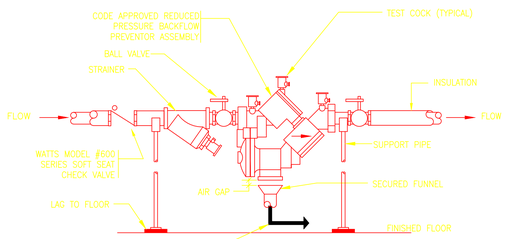
BELOW GRADE



THRU PARTITIONS & WALLS

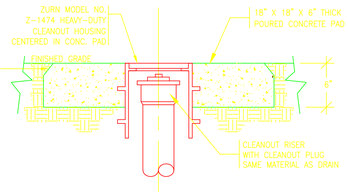
1 P0.1 TYPICAL PLUMBING SLEEVE CONDITION DETAILS
N.T.S.

NOTE:
1. ALL PIPING PENETRATING ALL PARTITIONS, WHETHER FIRE OR SMOKE RATED OR NOT, CONCEALED OR EXPOSED, SHALL BE SLEEVED AS DETAILED.
2. WHERE CONC. WALLS, SLABS, ETC., ARE CORE DRILLED, INSTALL SLEEVE FLUSH WITH BOTH SIDES, CAULKED & LEADED IN PLACE.
3. REFER TO DIVISION 4 & 9 FOR PROCEDURES & METHODS OF PATCHING AROUND SLEEVES AT GYPSUM, PLASTER & MASONRY. REFER TO SPECS FOR DELINEATION OF RESPONSIBILITY.
4. SLEEVES SHALL BE SIZED TO PROVIDE MIN. 1" CLEARANCE BETWEEN PIPE O.D. & SLEEVE I.D.

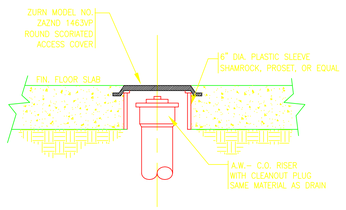


DETAIL
REDUCED PRESSURE
2 P0.1 BACKFLOW PREVENTOR ASSEMBLY(R.P.B.P.)
N.T.S.

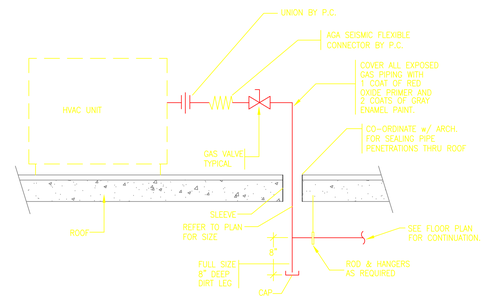
NOTES:
1. LOCATE BACKFLOW PREVENTOR 3' TO 4' ABOVE FINISHED FLOOR, 1' FROM WALL AND EASILY ACCESSIBLE.
2. MATERIALS AND METHODS FOR THIS INSTALLATION SHALL CONFORM TO ALL STATE AND U.S. PUBLIC HEALTH SERVICES CODES AND REGULATIONS.
3. FILE FOR AND OBTAIN ALL REQUIRED APPROVALS AND PERMITS PRIOR TO INSTALLATION.



3 P0.1 GROUND CLEANOUT
N.T.S.



ACID WASTE SYSTEM
4 P0.1 FLUSH FLOOR CLEAN OUT
N.T.S.



5 P0.1 GAS PIPING THRU ROOF DETAIL
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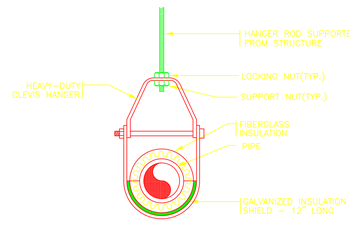
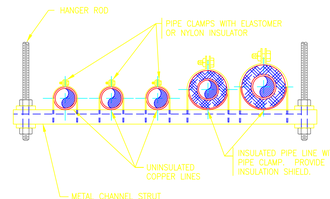


6 P0.1 TYPICAL PIPE HANGER DETAIL
N.T.S.

THIS DETAIL INDICATES HANGING OF INSULATED PIPING WHICH MAY BE EITHER WATER OR STORM DRAIN. CLEVIS HANGER DETAIL APPLIES TO ALL PLUMBING PIPING ON THIS PROJECT.



7 P0.1 TRAPEZE PIPE HANGER
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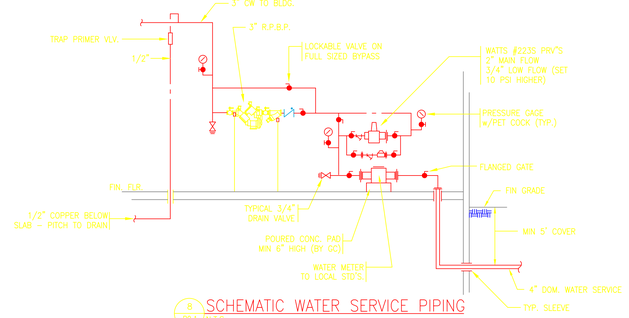
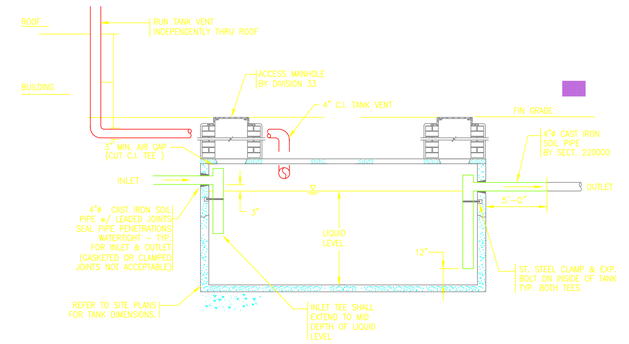


8 P0.1 SCHEMATIC WATER SERVICE PIPING
N.T.S.



9 P0.1 EXTERIOR GREASE TRAP DETAIL
N.T.S.

NOTE: THE PRECAST STRUCTURE IS SPECIFIED IN DIVISION 33. ALL PIPING WITHIN THE STRUCT. IS BY SECTION 220000.

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BID SET
09/03/2010

PLAN NORTH

Wayland High School
Wayland, MA
Legend, Notes & Details

SCALE: N.T.S. DRAWN BY: JMP CHECKED BY: CST

DRAWING NUMBER
P0.1

JOB NUMBER 426409

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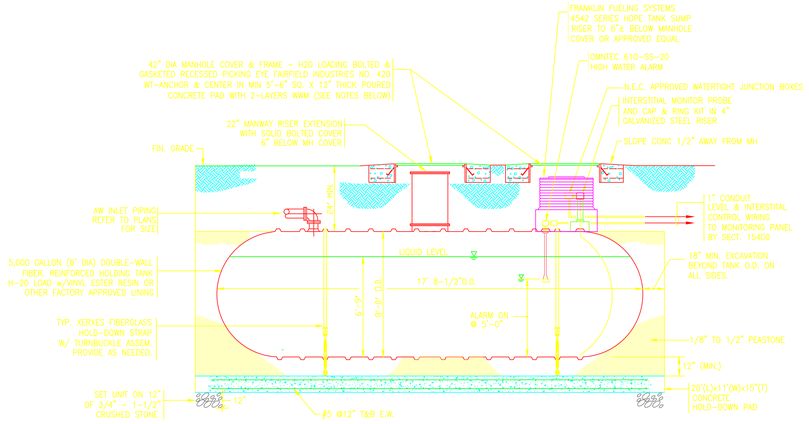
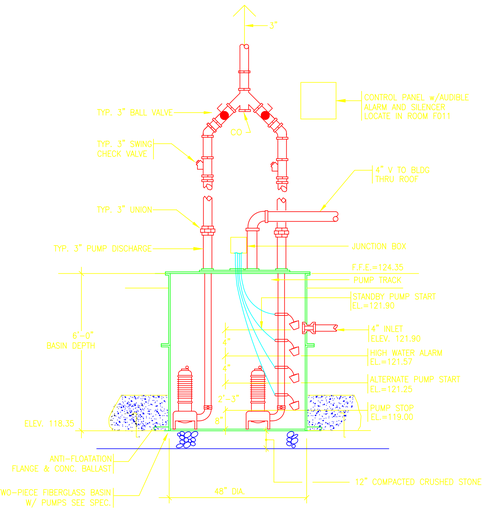
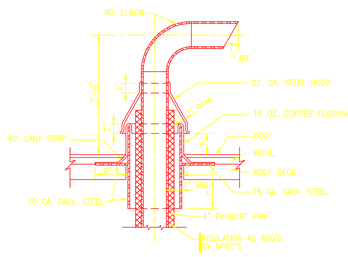


P0.2 SPECIAL WASTE HOLDING TANK DETAIL (5,000 GAL. CAP.)
N.T.S.

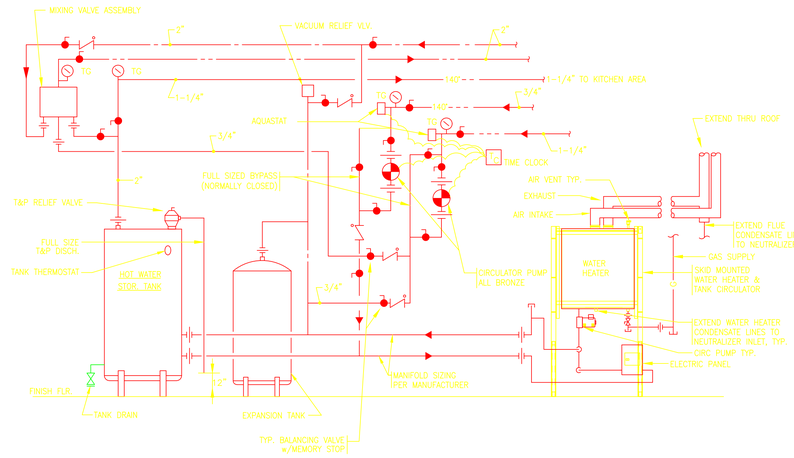
NOTES:
1. MANHOLE FRAMES AND GRATES SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.
2. ATTACH WEATHERPROOF SIGNAGE TO MANHOLES OR PADS INDICATING "INDUSTRIAL WASTE PUMP OUT MANHOLE" AND "MONITORING EQUIPMENT."



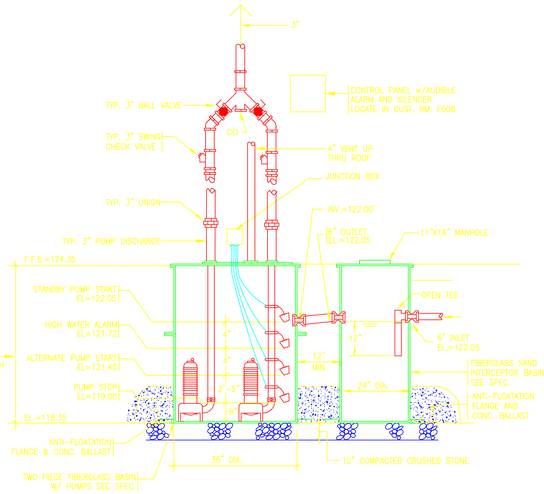
4 P0.2 DUPLEX SANITARY SUMP PUMP PIPING DETAIL
N.T.S.



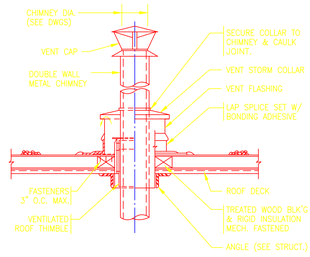
7 P0.2 EMERGENCY GENERATOR EXHAUST DETAIL
N.T.S.



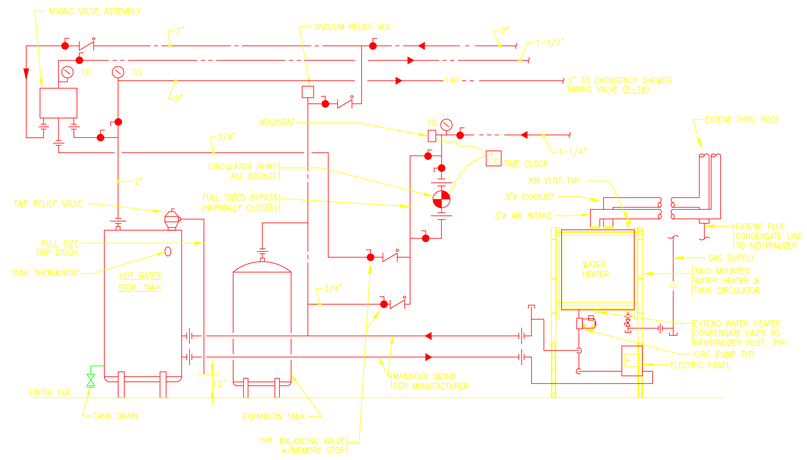
2 P0.2 WATER HEATER/STORAGE TANK PIPING DETAIL (WH-1 BLDG. A)
N.T.S.



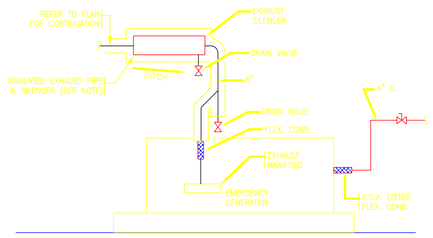
5 P0.2 DUPLEX STORM WATER SUMP PUMP PIPING DETAIL
N.T.S.



8 P0.2 METAL CHIMNEY EXHAUST
N.T.S.

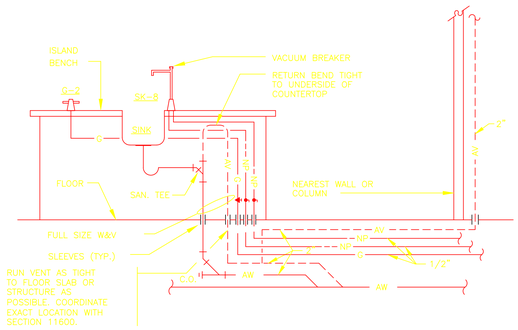


3 P0.2 WATER HEATER/STORAGE TANK PIPING DETAIL (WH-2 BLDG. B)
N.T.S.



6 P0.2 EMERGENCY GENERATOR EXHAUST PIPING SCHEMATIC
N.T.S.

NOTE:
1. GENERATOR EXHAUST SHALL BE SCHED. 40 ANSI A-53 BLACK STEEL PIPING w/BUTT WELDED ENDS, w/ SCHED. 40 BUTT WELDED END FITTINGS. INSULATE w/3 LAYERS OF 2" THICK CALCIUM SILICATE BLOCK (6" TOTAL) WIRED IN PLACE & COVERED w/ 1/2" THICK CEMENT TROWELED SMOOTH & COVERED w/8 oz. CANVAS JACKET.
2. SILENCER & A.G.A. LISTED FLEX CONNECTOR FOR SUPPLY & EXHAUST TO BE BE SUPPLIED BY THE E.C. & INSTALLED BY THE P.C.



9 P0.2 ISLAND SINK BOW VENT DETAIL
N.T.S.

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09/03/2010

TRUE NORTH
PLANE NORTH

DRAWN BY: JMP
CHECKED BY: CST
SCALE: N.T.S.

Wayland High School
Wayland, MA
Details

DRAWING NUMBER
P0.2

JOB NUMBER 626409

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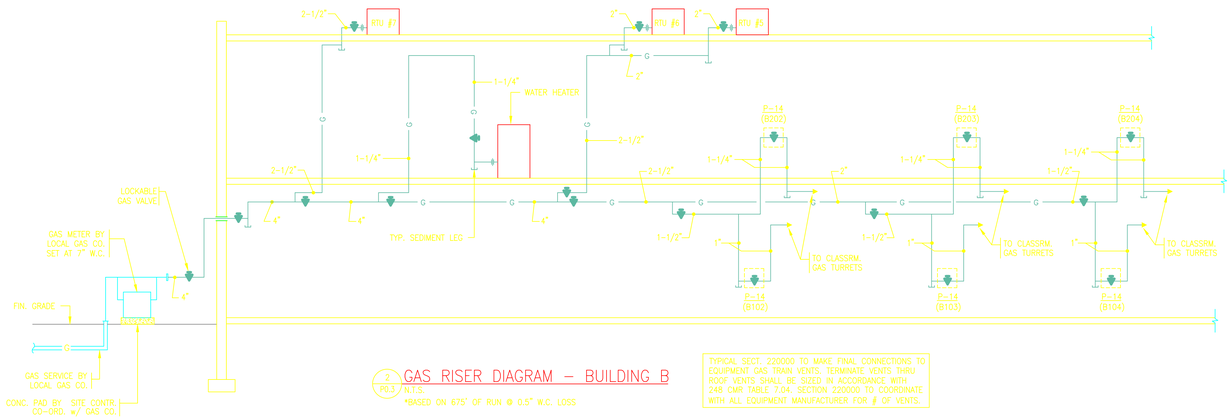
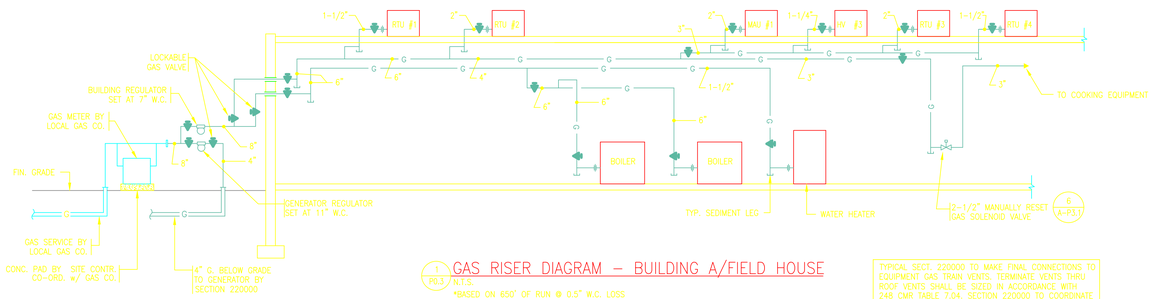


2 P0.3 GAS RISER DIAGRAM – BUILDING B
N.T.S.
*BASED ON 675' OF RUN @ 0.5" W.C. LOSS

TYPICAL SECT. 220000 TO MAKE FINAL CONNECTIONS TO EQUIPMENT. GAS TRAIN VENTS, TERMINATE VENTS THRU ROOF. VENTS SHALL BE SIZED IN ACCORDANCE WITH 248 CMR TABLE 7.04, SECTION 220000 TO COORDINATE WITH ALL EQUIPMENT MANUFACTURER FOR # OF VENTS.

GAS LOAD BREAKDOWN

EQUIPMENT	BTUH LOAD	MIN. PRESS. (W.C.)
WATER HEATER	136,000	5"
RTU #5	400,000	5"
RTU #6	320,000	5"
RTU #7	500,000	5"
CLASSRM. B102	90,000	5"
CLASSRM. B103	90,000	5"
CLASSRM. B104	90,000	5"
CLASSRM. B202	150,000	5"
CLASSRM. B203	150,000	5"
CLASSRM. B204	150,000	5"
TOTAL	2,076,000	

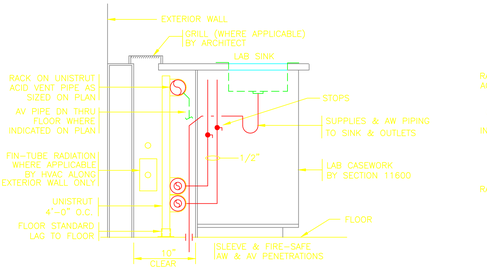


1 P0.3 GAS RISER DIAGRAM – BUILDING A/FIELD HOUSE
N.T.S.
*BASED ON 650' OF RUN @ 0.5" W.C. LOSS

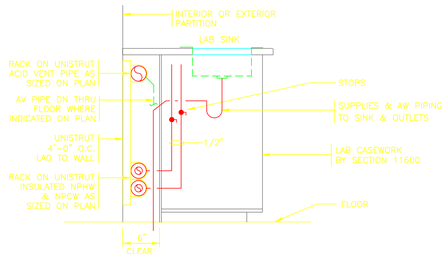
TYPICAL SECT. 226000 TO MAKE FINAL CONNECTIONS TO EQUIPMENT. GAS TRAIN VENTS, TERMINATE VENTS THRU ROOF. VENTS SHALL BE SIZED IN ACCORDANCE WITH 248 CMR TABLE 7.04, SECTION 220000 TO COORDINATE WITH ALL EQUIPMENT MANUFACTURER FOR # OF VENTS.

GAS LOAD BREAKDOWN

EQUIPMENT	BTUH LOAD	MIN. PRESS. (W.C.)
WATER HEATER	400,000	5"
BOILER #1	2,750,000	5"
BOILER #2	2,750,000	5"
RTU #1	200,000	5"
RTU #2	250,000	5"
RTU #3	320,000	5"
RTU #4	200,000	5"
MAU #1	400,000	5"
HV #1	100,000	5"
KITCHEN	1,390,000	5"
GENERATOR	2,550,000	7"
TOTAL	11,310,000	

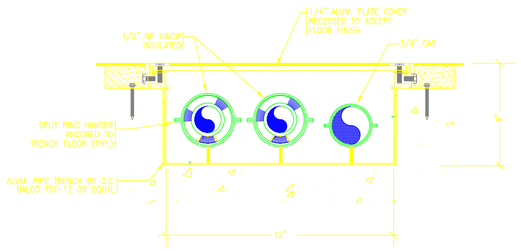


SECTION ALONG EXTERIOR WALL WITH FIN TUBE RADIATION



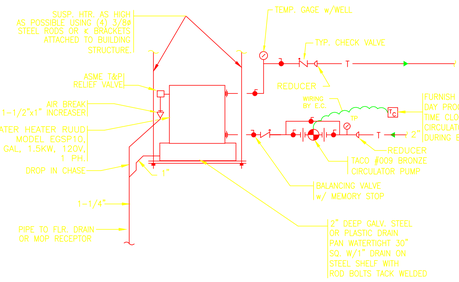
SECTION ALONG INTERIOR WALL WITHOUT FIN TUBE RADIATION

3 P0.3 TYP. PERIMETER LAB CASEWORK PIPING DETAIL
N.T.S.



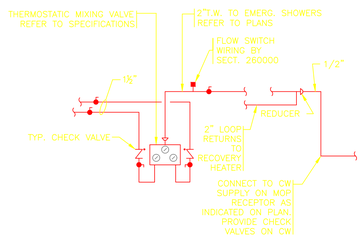
SECTION

4 P0.3 PIPE TRENCH DETAIL
N.T.S.



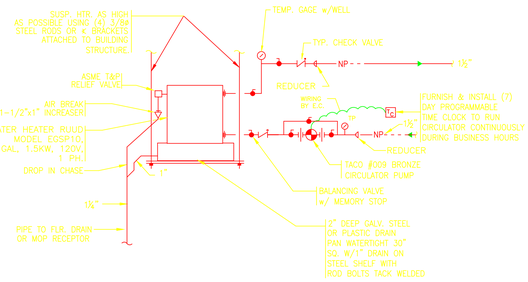
EMERGENCY SHOWER TEMPERED WATER HEAT RECOVERY WATER HEATER

5 P0.3
N.T.S.



SCHEMATIC PIPING FOR EMER. SHOWER MIXING & FLUSHING SYSTEMS

6 P0.3
N.T.S.



NON-POTABLE RECOVERY ELECTRIC WATER HEAT

7 P0.3
N.T.S.

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BID SET
09/03/2010

PLAN NORTH
TRUE NORTH

Wayland High School
Wayland, MA
Plumbing Details

SCALE: N.T.S. DRAWN BY: JMP CHECKED BY: CST

DRAWING NUMBER
P0.3

JOB NUMBER 426409

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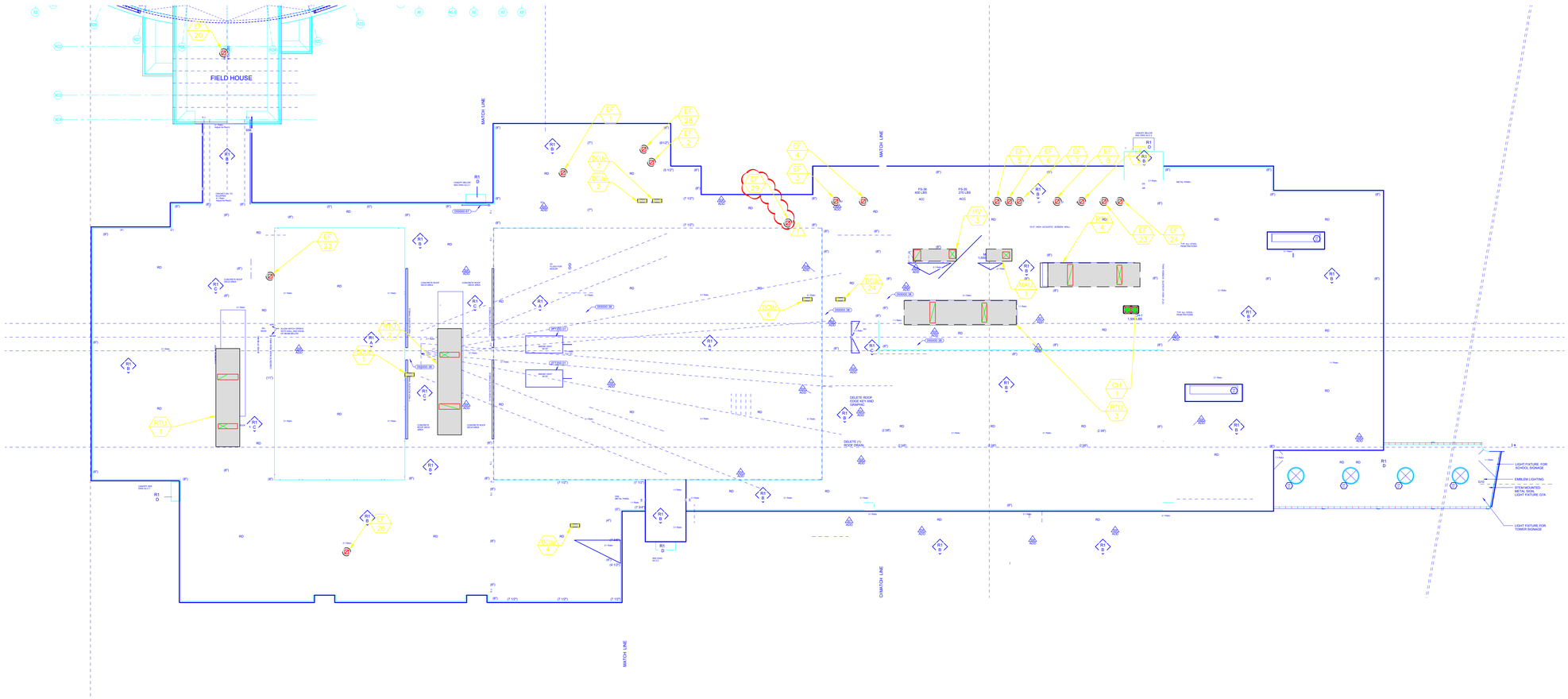

OVERALL ROOF HVAC PLAN BUILDING A

SCALES: 1/16" = 1'-0"

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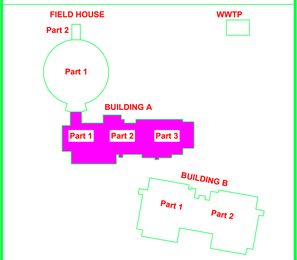
PLAN NORTH

KEYPLAN



Wayland High School
Wayland, MA
Overall Roof HVAC Plan
Building A
SCALE: 1/16" = 1'-0"
DRAWN BY: TRB
CHECKED BY: DP

REVISIONS NO.	DATE	REMARKS	BY

DRAWING NUMBER
A-M2.3.1

M2.3.1 3:34:25 PM Clifford Paiewonsky
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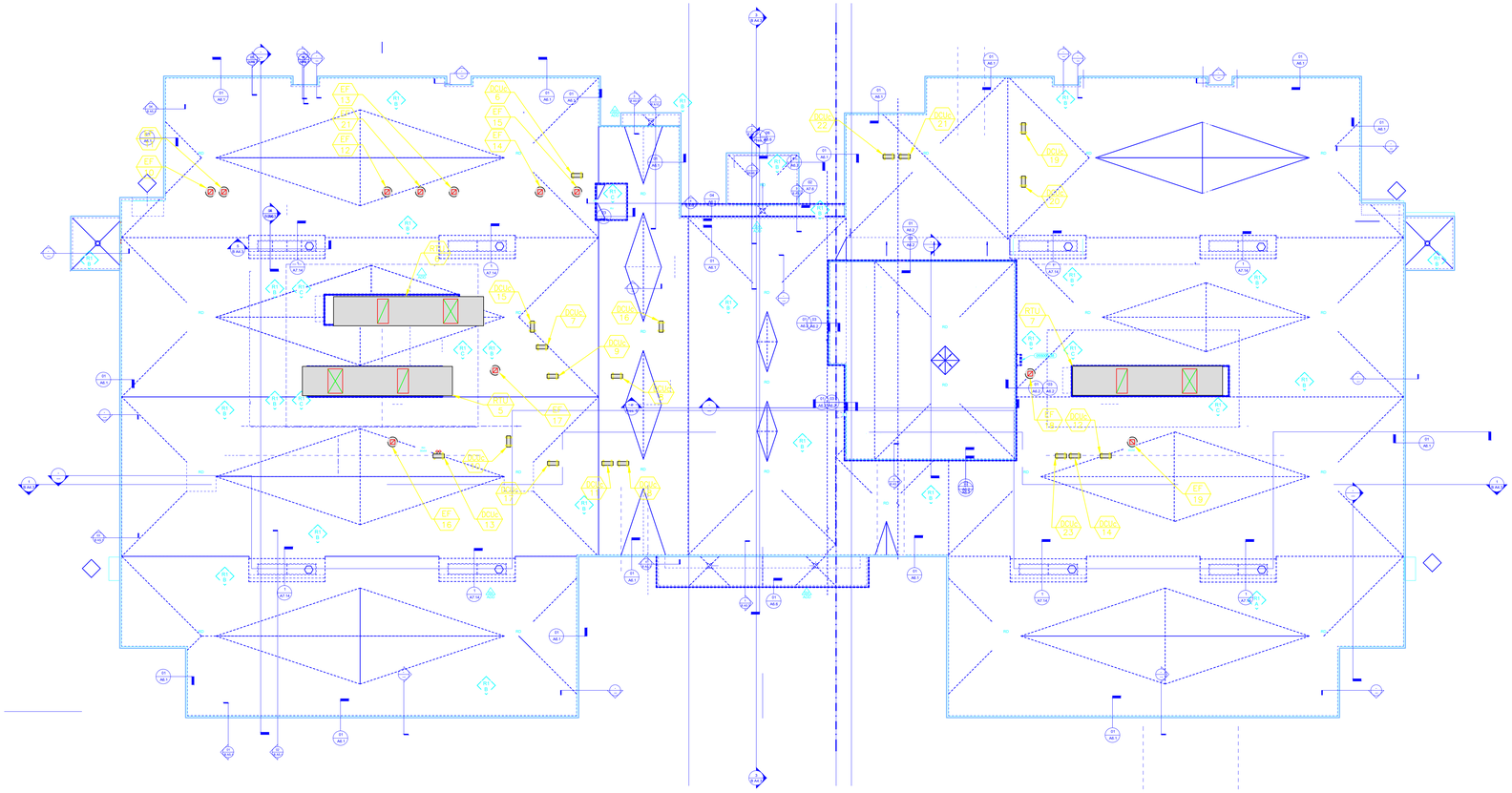

OVERALL ROOF HVAC PLAN BUILDING B

SCALE: 1/16" = 1'-0"

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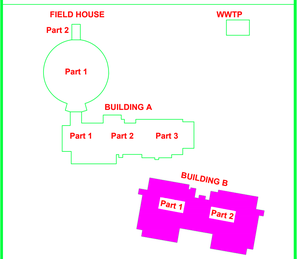
PLAN NORTH

KEYPLAN



Wayland High School
Wayland, MA
Overall Roof HVAC Plan Building B

SCALE: 1/16" = 1'-0" DRAWN BY: TRB CHECKED BY: DP

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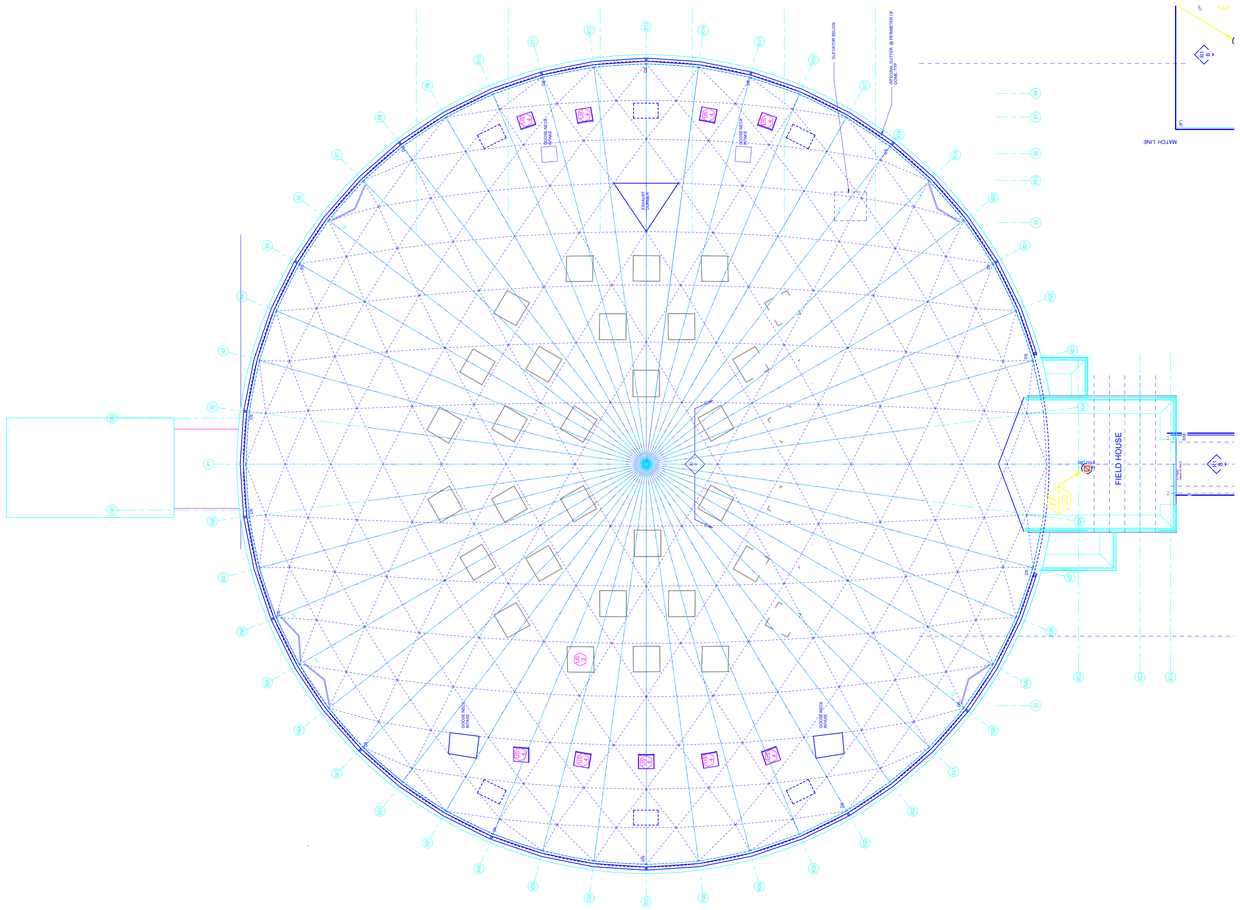

HVAC ROOF PLAN – BUILDING C

SCALE: 1/16" = 1'-0"

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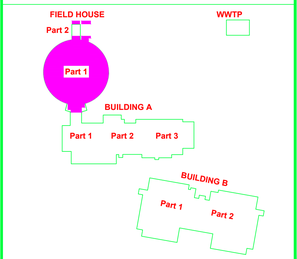

Wayland High School
Wayland, MA
HVAC ROOF PLAN
BUILDING C

SCALE: 1/16" = 1'-0"
DRAWN BY: TRB
CHECKED BY: XXX

REVISIONS NO.	DATE	REMARKS	BY

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FHM2.3

JOB NUMBER 426409

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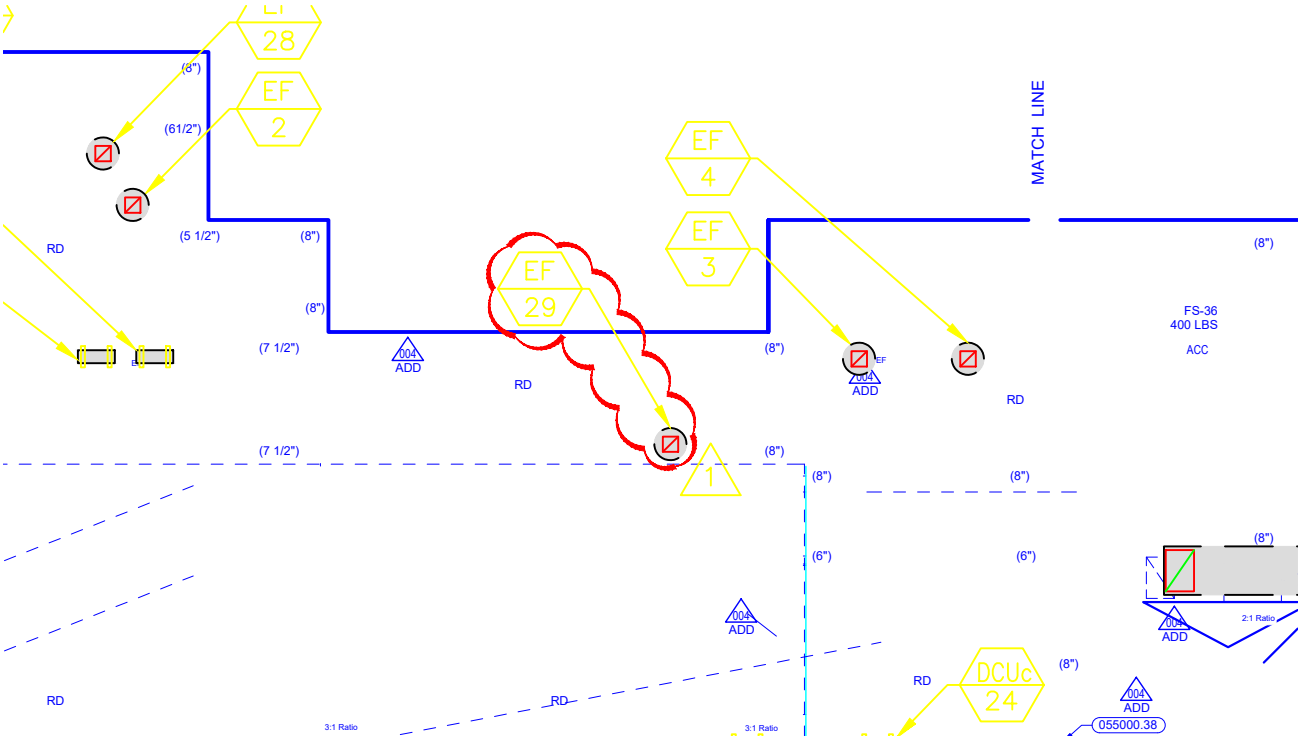

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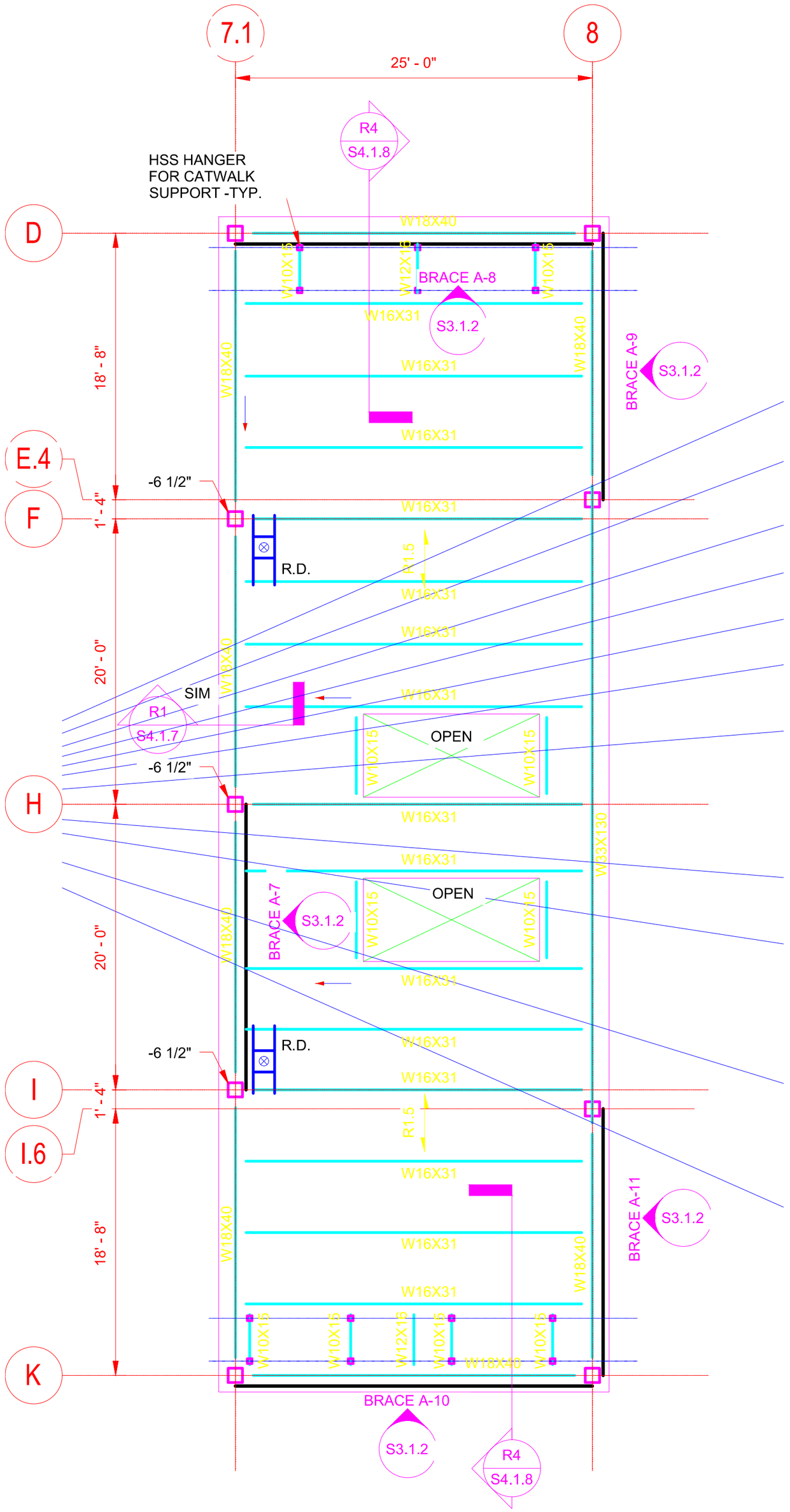
Wayland High School
Wayland, Massachusetts
AM2.3.1

SCALE: 1/16"=1'-0" DATE: 9-16-10 DRAWN: TRB CHECKED: KL

DRAWING NUMBER
SKM A1.11

JOB NUMBER 426409


7.1
8
25' - 0"
R4
S4.1.8
HSS HANGER
FOR CATWALK
SUPPORT -TYP.
D
E.4
F
H
I
I.6
K
18' - 8"
1' - 4"
20' - 0"
20' - 0"
1' - 4"
18' - 8"
-6 1/2"
-6 1/2"
-6 1/2"
W18X40
W16X31
W10X15
W12X16
BRACE A-8
S3.1.2
BRACE A-9
S3.1.2
R.D.
R1.5
SIM
R1
S4.1.7
OPEN
W33X130
BRACE A-7
S3.1.2
OPEN
R.D.
R1.5
BRACE A-11
S3.1.2
BRACE A-10
S3.1.2
R4
S4.1.8

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B,7
E,4
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J
J,2
K,8
25' - 0"
20' - 0"
16' - 0"
18' - 0"
26' - 0"
17' - 11 7/8"
MATCHLINE
TOP OF DECK
EL. 17' - 0"
AUDITORIUM ROOF LEVEL
COMMONS ROOF LEVEL
GALV. HSS5x5x1/4 GIRTS FOR RTU SCREEN -TYP.
HSS5x5x1/4 KNEE BRACE BETWN. LOW RF. + BAND RF -TYP.
ADD'L. UPLIFT BRIDGING REQ'D. AT FIRST PANEL POINT EA. END OF JOISTS -TYP.
2 ROWS OF STANDARD BRIDGING -TYP.
4 ROWS OF STANDARD BRIDGING -TYP.
3 ROWS OF STANDARD BRIDGING -TYP.
HSS10X10X3/8 + PL
W21x50
W21x44
W8x12 (HIGH) -TYP.
W6 (HIGH) -TYP.
HSS2 1/2X2 1/2X1/4 HANGER FOR GAYWALK SUPPORT -TYP.
VENT OPENING - SEE ARCH. DWGS.
W8x18 HOIST BM. (LOW)
SIM
OPEN TO STAGE BELOW
RIDGE LINE OF AUDITORIUM ROOF
SLOPE BM. -TYP.
ADD'L. UPLIFT BRIDGING REQ'D. AT FIRST PANEL POINT EA. END OF JOISTS -TYP.
HSS7x4x3/8 (UNDER) AT TOP OF CURTAIN WALL
PITCH TOP CHORD -TYP.
R.D.
BRACE A-28
BRACE A-27
BRACE A-6
BRACE A-8
BRACE A-10
BRACE A-20
BRACE A-17
S3.1.2
S4.1.7
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5" SLAB ON GRADE
6x6-W2.9xW2.9 W.W.F
EL. 0'-0"

5" SLAB ON GRADE
6x6-W2.9xW2.9 W.W.F
EL. -0'-3/8"

DEPRESS 1 1/2" AT VESTIBULE

DEPRESS 1 1/2" AT TOILET ROOM

DEPRESS 3/8" AT MAT

FULL DEPTH ISOLATION JOINT AT COLUMNS -TYP.

1 1/4" DEEP SAWCUT JOINTS ON COLUMN LINES AND BETWEEN COLUMNS -TYP.

DEPRESS STAGE AREA PER ARCH DWGS.

UNDERSLAB FOUNDATION DRAIN -SEE CIVIL & MEP DWGS.

FOUNDATION DRAIN -SEE CIVIL & MEP DWGS.

SHORE SLOPED DECK CONTINUOUSLY MIDSPAN BETWEEN SLOPED BEAMS -TYP.

24" (BSB) x 12" GP HINGEMOD SLAB W/2 #5 CONT. UNDER CMU WALLS

16"X16"X12" DEEP SUMP PIT

16" CONC. MAT W/ #6@12" TOP & BOT EACH WAY

TEMPORARY LATERAL EARTH SUPPORT SYSTEM BY CONTRACTOR -TYP.

(E) C BLOCK

THICKENED SLAB UNDER WALL

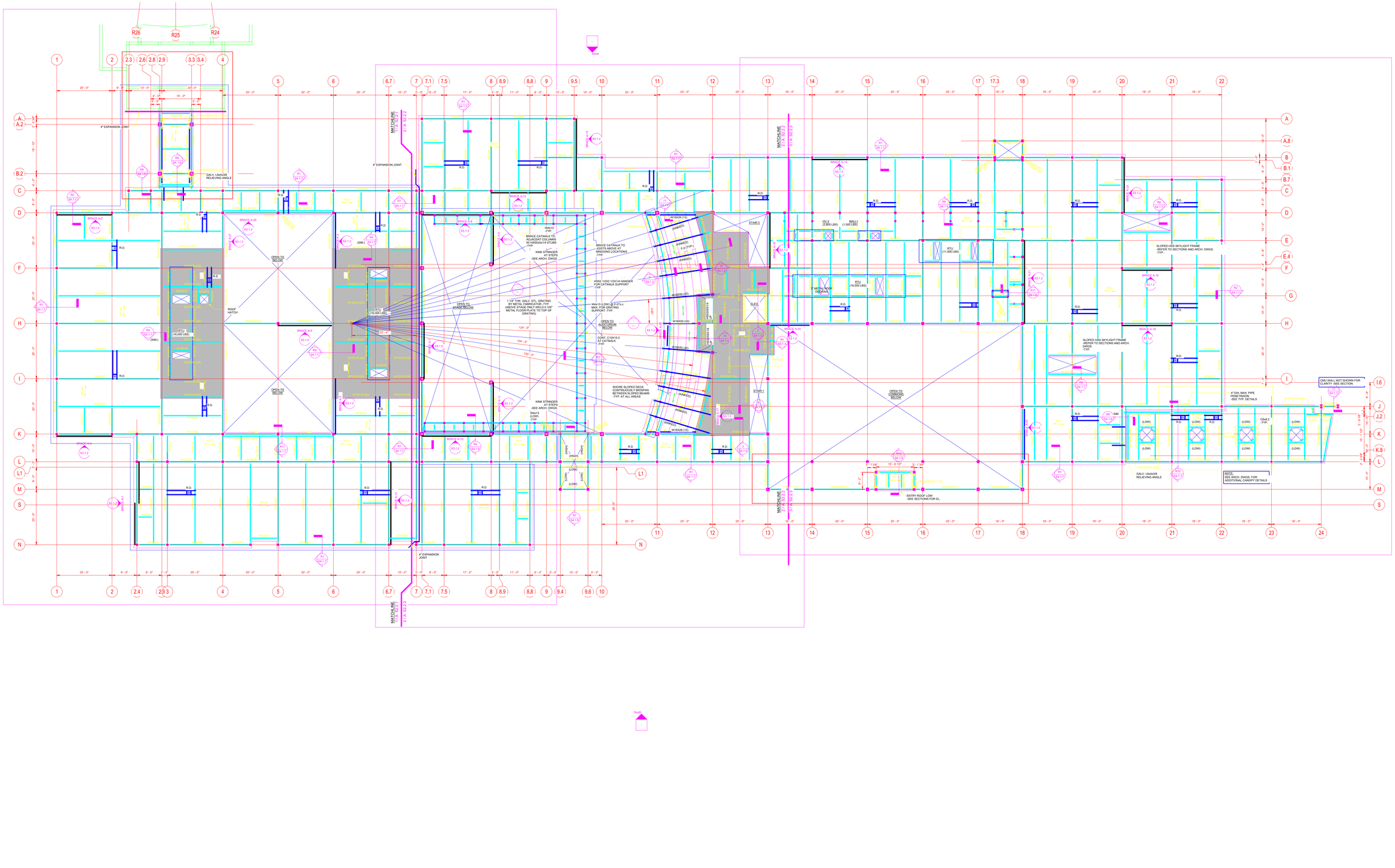
DEPRESS 1 1/2" AT VESTIBULE

DEPRESS 1 1/2" AT TOILET ROOM

FOOTING STEP -TYP.

8"x12"x1/4"x24" THK. STG W/#8@12"c.c. T&B (4) EA. FACE

NOTE:
SEE ARCH. DWGS. FOR ADDITIONAL CANOPY DETAILS


R26
R25
R24
4" EXPANSION JOINT
GALV. L6x4x3/8 RELIEVING ANGLE
MATCHLINE
S2.2
2 / A S2.2
MATCHLINE
S2.3
2 / A S2.3
MATCHLINE
S2.1
2 / A S2.2
ROOF HATCH
RTU (16,000 LBS)
RTU (11,000 LBS)
RTU (18,000 LBS)
MAU-3 (2,900 LBS)
MAU-1 (1,500 LBS)
1" METAL ROOF DECKING
OPEN TO BELOW
OPEN TO BRACE BELOW
OPEN TO AUDITORIUM BELOW
OPEN TO CORRIDOR BELOW
BRACE CATWALK TO BRACE CATWALK AT BRIDGING LOCATIONS -TYP.
KINK STRINGER AT STEPS -SEE ARCH. DWGS
1 1/4" THK. GALV. STL. GRATING BY METAL FABRICATOR -TYP. (ABOVE STAGE ONLY WELD 0.105" METAL FLOOR PLATE TO TOP OF GRATING)
HSS2.12X2.12X0.18 HANGER FOR CATWALK SUPPORT -TYP.
CONT. C10X15.3 AT CATWALK -TYP.
SHORE SLOPED DECK CONTINUOUSLY MIDSPAN BETWEEN SLOPED BEAMS -TYP. AT ALL AREAS
STAIR 1
STAIR 2
ELEV.
SLOPED HSS SKYLIGHT FRAME -REFER TO SECTIONS AND ARCH. DWGS. -TYP.
4" DIA. MAX. PIPE PENETRATION -SEE TYP. DETAILS
C6x8.2 -TYP.
CMU WALL NOT SHOWN FOR CLARITY -SEE SECTION
GALV. L6x4x3/8 RELIEVING ANGLE
NOTE: SEE ARCH. DWGS. FOR ADDITIONAL CANOPY DETAILS
ENTRY ROOF LOW -SEE SECTIONS FOR EL.
4" EXPANSION JOINT
North

North

West

East

South

0.9 1 2 2.8 3 4 4.5 5 6 6.4 7 7.3 7.4 8 9 10 11 12 12.8 13 14 14.5 15 16 16.2 17 18 19

13' - 8" 12' - 0" 22' - 0" 10' - 0" 10' - 0" 16' - 0" 16' - 0" 10' - 0" 10' - 0" 22' - 0" 9' - 0" 4" 12' - 8" 16' - 0" 16' - 0" 16' - 0" 22' - 0" 22' - 0" 10' - 0" 10' - 0" 16' - 0" 16' - 0" 10' - 0" 10' - 0" 22' - 0" 12' - 0" 13' - 8"

A A.2 A.9 B C D E F G G.5 H

10' - 0" 27' - 0" 5' - 0" 12' - 0" 26' - 0" 26' - 0" 26' - 0" 10' - 0" 15' - 0" 15' - 0"

1 2.2 3 4.5 6 6.9 12.2 13 14.5 16 16.9 18

18' - 0" 26' - 0" 26' - 0" 26' - 0" 26' - 0" 26' - 0" 26' - 0" 26' - 0" 26' - 0" 26' - 0" 18' - 0"

MATCHLINE SEE S2.1.2 2 / B

MATCHLINE SEE S2.1.2 2 / B

HSS5X3X5/16 CONT. -TYP.

F2.0C [-4'-6"]

COL. SUPPORTED ON FDN. WALL -PROVIDE 6"x14"x1/2" THK. BASE PL W/2-3/4" HY150 ADHESIVE ANCHORS AND 10" EMBED. VERT SLIP CONN. TO BEAM ABOVE USING WTthough2.5

24" WIDE x 12" DEEP THICKENED SLAB W/ 2-#5 CONT. UNDER CMU WALLS -TYP.

P-2

BRACE B-2

DEPRESS 1 1/2" AT VESTIBULE

STEP FTG. -TYP.

DEPRESS 1 1/2" AT TOILET ROOM

FULL DEPTH ISOLATION JOINT AT COLUMNS -TYP.

1 1/4" DEEP SAWCUT JOINTS ON COLUMN LINES AND AT MID BAY -TYP.

5" SLAB ON GRADE
6x6-W2.9xW2.9 W.W.F
EL. 0'-0"

BRACE B-8

18"x18"x12" DEEP SUMP PIT

ELEV.

16" CONC. MAT W/#6@12" TOP & BOT. EA. WAY

5" SLAB ON GRADE
6x6-W2.9xW2.9 W.W.F
EL. -0" - 0.3/8"

DEPRESS 1 1/2" AT VESTIBULE

BRACE B-9

BRACE B-11

BRACE B-14

DEPRESS 1 1/2" AT TOILET ROOM

FULL DEPTH ISOLATION JOINT AT COLUMNS -TYP.

1 1/4" DEEP SAWCUT JOINTS ON COLUMN LINES AND AT MID BAY -TYP.

5" SLAB ON GRADE
6x6-W2.9xW2.9 W.W.F
EL. 0'-0"

BRACE B-12

BRACE B-10

THICKENED SLAB AT CMU WALLS

BRACE B-4

DEPRESS 1 1/2" AT VESTIBULE

ARCH EXPOSED CONC.

5" SLAB ON GRADE
6x6-W2.9xW2.9 W.W.F
EL. -3'-4"

WALL FOOTING WIDENED TO 4'-6" AT GRADE BEAM

STEP FTG. -TYP.

DELETE COLS., PIERS AND FTGS. FOR CANOPY

BRACE B-13

THICKENED SLAB AT CMU WALLS

BRACE B-16

DEPRESS 1 1/2" AT VESTIBULE

North

West

East

South

MATCHLINE
SEE S2.4.2

DELETE MONITORS -TYP.

DELETE RTU SCREEN

LOWERED ROOF

VENT OPENING -SEE ARCH. DWGS.

W8X13

W8x18 HOIST BM. (LOW)

REDUCE W33 CANTILEVER BEAM DEPTH TO 12"

R.D.

R3.0A

BRACE B-19

BRACE B-18

BRACE B-12

BRACE B-13

BRACE B-16

North

West

East

South

MATCHLINE
SEE S2.2
2 / B

MATCHLINE
SEE S2.2
2 / B

GALV. L6X4X3/8 RELIEVING ANGLE -TYP.

GALV. L6X4X3/8 RELIEVING ANGLE -TYP.

RAISED GALV. W6X16 BRICK SUPPORT ON HSS4X4X1/4 POSTS -TYP.

RAISED GALV. W6X16 BRICK SUPPORT ON HSS4X4X1/4 POSTS -TYP

RAISED GALV. W6X16 BRICK SUPPORT ON HSS5X5X1/4 POSTS -TYP

HSS5x5x3/8 HORIZ. +L6x4x3/8 LLH W/CS/40 HANGERS

GALV. L6x4x3/8 RELIEVING ANGLE + HSS -TYP.

GALV. L6x4x3/8 RELIEVING ANGLE + HSS -TYP.

TOP OF DECK EL. 23' - 8"

TOP OF DECK EL. 23' - 8"

SIM

ELEV.

PREFAB. SKYLIGHT -REFER TO ARCH. DWGS.

PREFAB. SKYLIGHT -REFER TO ARCH. DWGS.

PREFAB. SKYLIGHT -REFER TO ARCH. DWGS.

PREFAB. SKYLIGHT -REFER TO ARCH. DWGS.

PREFAB. SKYLIGHT -REFER TO ARCH. DWGS.

PREFAB. SKYLIGHT -REFER TO ARCH. DWGS.

STAIR LOW ROOF TOP OF STL. DECK EL. 23' - 8"

STAIR LOW ROOF TOP OF STL. DECK EL. 23' - 8"

RTU (16,000 LBS)

RTU (16,000 LBS)

RTU (16,000 LBS)

DELETE FRM'G. FOR RTU SCREEN -TYP.

DELETE FRM'G. FOR RTU SCREEN -TYP.

ROOF HATCH

ROOF HATCH

OPEN TO BELOW

CONT. HSS7X4X3/8 (UNDER) AT TOP OF CURTAINWALL

GALV. L6x4x3/8 RELIEVING ANGLE + HSS -TYP.

GALV. L6x4x3/8 RELIEVING ANGLE + HSS -TYP.

GALV. L6x4x3/8 RELIEVING ANGLE + HSS -TYP.

GALV. L6x4x3/8 RELIEVING ANGLE + HSS -TYP.

GALV. L6x4x3/8 RELIEVING ANGLE + HSS -TYP.

GALV. L6x4x3/8 RELIEVING ANGLE + HSS -TYP.

BRACE B-1

BRACE B-2

BRACE B-3

BRACE B-4

BRACE B-5

BRACE B-6

BRACE B-7

BRACE B-8

BRACE B-9

BRACE B-10

BRACE B-11

BRACE B-12

BRACE B-13

BRACE B-14

BRACE B-15

BRACE B-16

BRACE B-17

BRACE B-18

BRACE B-19

R.D.

W10x22

W10X15

W12X16

W16X26

W16X31

W16X40

W16X45

W16X50

W16X57

W16X67

W16X89

W18X35

W21X44

W21X48

W21X50

W21X55

W21X57

W21X62

W21X68

W21X73

W21X83

W24X55

W24X62

W24X68

W24X76

W24X84

W24X94

W24X103

W24X104

W24X131

W24X146

W24X162

W24X176

W24X192

W24X207

W24X229

W24X250

W24X279

W24X306

W24X335

W24X370

W24X408

W24X492

W27X84

W27X94

W27X102

W27X114

W27X129

W27X146

W27X161

W27X178

W27X194

W27X217

W27X235

W27X258

W27X281

W27X307

W27X336

W27X368

W27X539

W30X90

W30X99

W30X108

W30X116

W30X124

W30X132

W30X148

W30X173

W30X191

W30X211

W30X235

W30X261

W30X292

W30X326

W30X357

W30X391

W30X432

W30X477

W30X526

W30X581

W30X638

W30X700

W30X757

W30X891

W33X118

W33X130

W33X141

W33X152

W33X169

W33X201

W33X221

W33X241

W33X263

W33X291

W33X318

W33X354

W33X387

W33X424

W33X473

W33X521

W33X567

W33X619

W33X669

W33X733

W33X800

W33X866

W33X1130

W36X135

W36X150

W36X160

W36X170

W36X182

W36X194

W36X210

W36X230

W36X245

W36X256

W36X280

W36X302

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W36X1439

W36X1527

W36X1652

W36X1798

W36X1925

W36X2031

W36X2160

W36X2281

W36X2393

W36X2487

W36X2595

W36X2703

W36X2798

W36X2912

W36X3023

W36X3135

W36X3247

W36X3359

W36X3470

W36X3582

W36X3693

W36X3805

W36X3916

W36X4028

W36X4139

W36X4251

W36X4362

W36X4474

W36X4585

W36X4697

W36X4808

W36X4920

W36X5031

W36X5143

W36X5254

W36X5366

W36X5477

W36X5589

W36X5700

W36X5812

W36X5923

W36X6035

W36X6146

W36X6258

W36X6369

W36X6481

W36X6592

W36X6704

W36X6815

W36X6927

W36X7038

W36X7150

W36X7261

W36X7373

W36X7484

W36X7596

North

West

East

South

MATCHLINE
SEE S2.2
2 / B

MATCHLINE
SEE S2.2
2 / B

GALV. L6X4X3/8 RELIEVING ANGLE -TYP.

GALV. L6X4X3/8 RELIEVING ANGLE -TYP.

NORTH ENTRY ROOF T.O. STL. EL. 11'-4"

CONT. HSS7X4X3/8 (UNDER) AT TOP OF CURTAINWALL

OVERRIDES SKS 002

L2x2x5/16 KICKER

L2x2x5/16 KICKER

R.D.

ELEV.

STAIR 1

STAIR 2

STAIR 3

STAIR 4

STAIR 5

DEPRESS 1/2" MAX. AT TOILET ROOM

DEPRESS 1/2" MAX. AT TOILET ROOM

DELETE DEPRESSION AT LECTURE HALL

OPEN TO BELOW

OPEN

OPEN

3.5" Concrete on 2" Composite Metal Deck

SLAB NOTCHED AT COLUMN. SEE ARCH FOR SIZE AND LOCATION -TYP.

"NOTE A" PROVIDE CONC. ON METAL DECK ON LT. GA. WALLS AT STEPS FOR BUILT-UP SEATING IN LECTURE HALL- SEE ARCH. DWGS.

GALV. L6x4x3/8 RELIEVING ANGLE -TYP.

HSS6x6x3/8" -TYP

BRACE B-1

BRACE B-2

BRACE B-3

BRACE B-4

BRACE B-5

BRACE B-6

BRACE B-7

BRACE B-8

BRACE B-9

BRACE B-10

BRACE B-11

BRACE B-12

BRACE B-13

BRACE B-14

BRACE B-15

BRACE B-16

W8x12

W8x12

HSS6X6X3/8 *

HSS8X8X5/16 *

HSS10X10X1/2 *

HSS12X12X1/2 *

HSS16X16X5/8 *

HSS16X16X1/2 *

HSS6X6X5/16 *

HSS6X6X3/16 *

W12X16 (8)

W12X26 (8)

W12X50 (8)

W16X31 (24)

W16X40 (24)

W16X50 (24)

W16X31 (25)

W16X40 (25)

W16X50 (25)

W16X31 (26)

W16X40 (26)

W16X50 (26)

W16X31 (27)

W16X40 (27)

W16X50 (27)

W16X31 (28)

W16X40 (28)

W16X50 (28)

W16X31 (29)

W16X40 (29)

W16X50 (29)

W16X31

R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 R27 R28 R29 R30 R31 R32 R33 R34 R35 R36 R37 R38 R39 R40 R41 R42 R43 R44 R45 R46 R47 R48 F2

SW

SW
S4.1.6

2- 1 3/4 x 7 1/4 LVL W/METAL BEAM HANGER CONNECTORS -TYP. AT ALL SKYLIGHTS & DUCT PENETRATIONS

WOOD T&G PLANK TO MATCH EXISTING -TYP.

2- 1 3/4x7 1/4 LVL -TYP. FRAMING AT SKYLIGHTS -TYP.

2-1 3/4 x 7 1/4 LVL ABOVE NEW LT. GA. WALL BELOW -TYP.

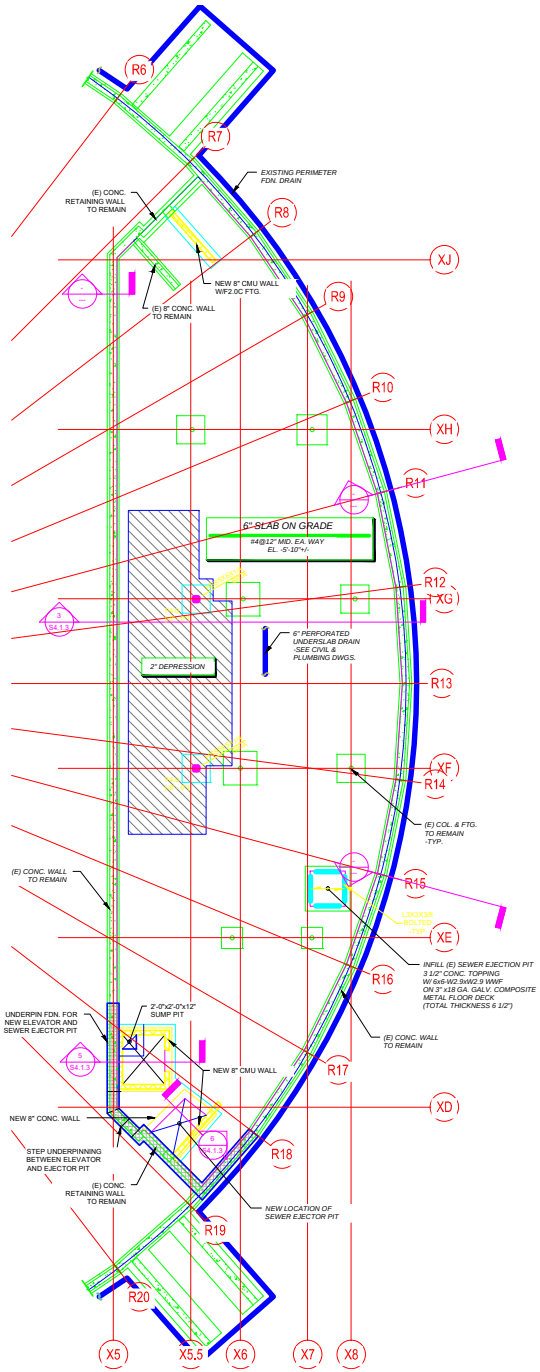
9/16" x 26 GA. GALV. METAL FORM DECK W/5/8" EXT. PLYWOOD SHEATHING ON TOP. -TYP.

10"x16 GA. MIN. LT. GAUGE RIDGE BEAM

8"x16 GA. MIN. LT. GAUGE ROOF RAFTERS @16"o.c. -TYP. REFER TO SPECIFICATIONS FOR DESIGN REQUIREMENTS

2-1 3/4"x7 1/4" FRAMING BELOW -TYP. AT NEW SHAFTS

ELEVATOR BELOW


R6
R7
EXISTING PERIMETER FDN. DRAIN
(E) CONC. RETAINING WALL TO REMAIN
R8
XJ
NEW 8" CMU WALL W/F2.0C FTG.
(E) 8" CONC. WALL TO REMAIN
R9
R10
XH
R11
6" SLAB ON GRADE
#4@12" MID. EA. WAY
EL. -5'-10"+/-
R12
XG
6" PERFORATED UNDERSLAB DRAIN -SEE CIVIL & PLUMBING DWGS.
2" DEPRESSION
R13
XF
R14
(E) COL. & FTG. TO REMAIN -TYP.
(E) CONC. WALL TO REMAIN
R15
XE
INFILL (E) SEWER EJECTION PIT 3 1/2" CONC. TOPPING W/ 6x6-W2.9xW2.9 WWF ON 3" x18 GA. GALV. COMPOSITE METAL FLOOR DECK (TOTAL THICKNESS 6 1/2")
R16
2'-0"x2'-0"x12" SUMP PIT
UNDERPIN FDN. FOR NEW ELEVATOR AND SEWER EJECTOR PIT
(E) CONC. WALL TO REMAIN
NEW 8" CMU WALL
R17
XD
NEW 8" CONC. WALL
R18
STEP UNDERPINNING BETWEEN ELEVATOR AND EJECTOR PIT
(E) CONC. RETAINING WALL TO REMAIN
NEW LOCATION OF SEWER EJECTOR PIT
R19
R20
X5
X5.5
X6
X7
X8

R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 R27 R28 R29 R30 R31 R32 R33 R34 R35 R36 R37 R38 R39 R40 R41 R42 R43 R44 R45 R46 R47 R48 F2

XJ XH XG XF XE XD X5 X5.5 X6 X7 X8

SW

(E) STEP FTG.

(E) 12" CONC. FDN. WALL -TYP.

(N) STAIR

PROVIDE TEMP SUPPORT FOR COL.

4" CONC. HOUSEKEEPING PADS W/6x6-W2.9xW2.9 W.W.F. -REFER TO TYP. DETAILS AND ARCH & M.E.P. DWGS.

(E) SLAB ON GRADE EL. 0'-0"+/-

(E) 12"x3" PAN CONSTRUCTION SLAB W/ 6" RIBS @ 2'-6"o.c.
T.O. CONC. EL. 4'-0"+/-

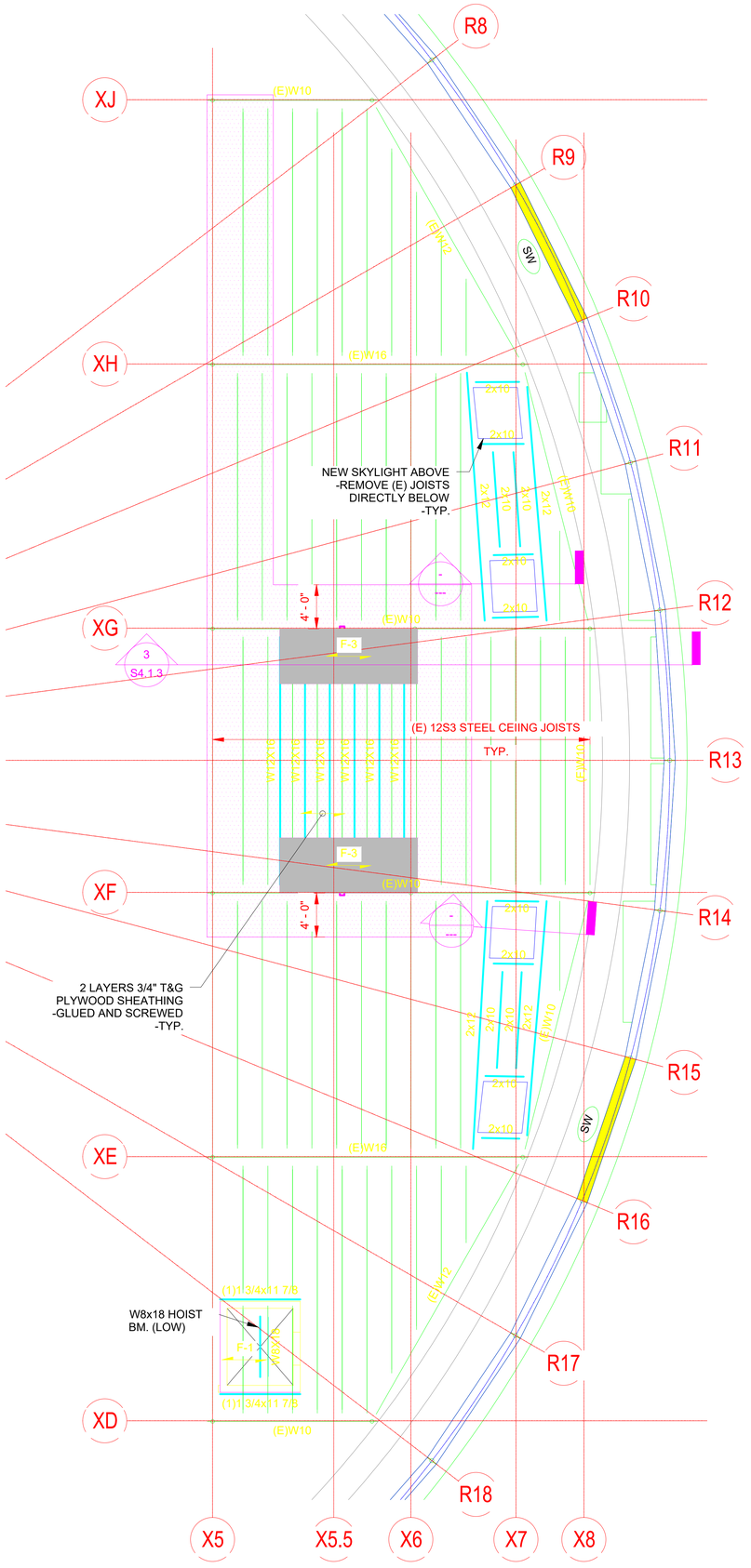
3 S4.1.3

3 S4.1.6

(N) ELEV.

8" REINF. CMU SHAFT

EXISTING PERIMETER FND. DRAIN


R8
XJ
(E)W10
R9
(E)W12
SW
R10
XH
(E)W16
2x10
2x10
NEW SKYLIGHT ABOVE
-REMOVE (E) JOISTS
DIRECTLY BELOW
-TYP.
2x12
2x10
2x12
(E)W10
R11
2x10
2x10
4' - 0"
R12
XG
(E)W10
3
S4.1.3
F-3
(E) 12S3 STEEL CEIING JOISTS
TYP.
R13
W12x16
W12x16
W12x16
W12x16
W12x16
W12x16
(E)W10
F-3
XF
(E)W10
4' - 0"
R14
2x10
2x10
2 LAYERS 3/4" T&G
PLYWOOD SHEATHING
-GLUED AND SCREWED
-TYP.
2x12
2x10
2x10
2x12
(E)W10
R15
2x10
2x10
SW
XE
(E)W16
R16
(E)W12
(1)1 3/4x11 7/8
W8x18 HOIST
BM. (LOW)
F-1
W8x18
(1)1 3/4x11 7/8
R17
XD
(E)W10
R18
X5
X5.5
X6
X7
X8

1

2

75' - 8"

F3.0 [-4' - 6"]

A

8
S4.1.3

1 1/2" DEEP SAWCUT
CONTROL JOINTS
-TYP.

F3.0 [-4' - 6"]

F3.0 [-4' - 6"]

6" SLAB ON GRADE

W/ #4@12" MID. EA. WAY
EL. 0'-0"

47' - 8"

B

F3.0 [-4' - 6"]

8
S4.1.3

1

2

75' - 8"

A

B

47' - 8"

28LH09 @6'-0"+/-o.c.

WR2
S4.1.9

W4X13
W4X13
W4X13
RTU
W4X13
W4X13
W4X13

R1.5

2- 28LH09

R.D.

2 ROWS OF
STANDARD BRIDGING
-TYP.

R.D.

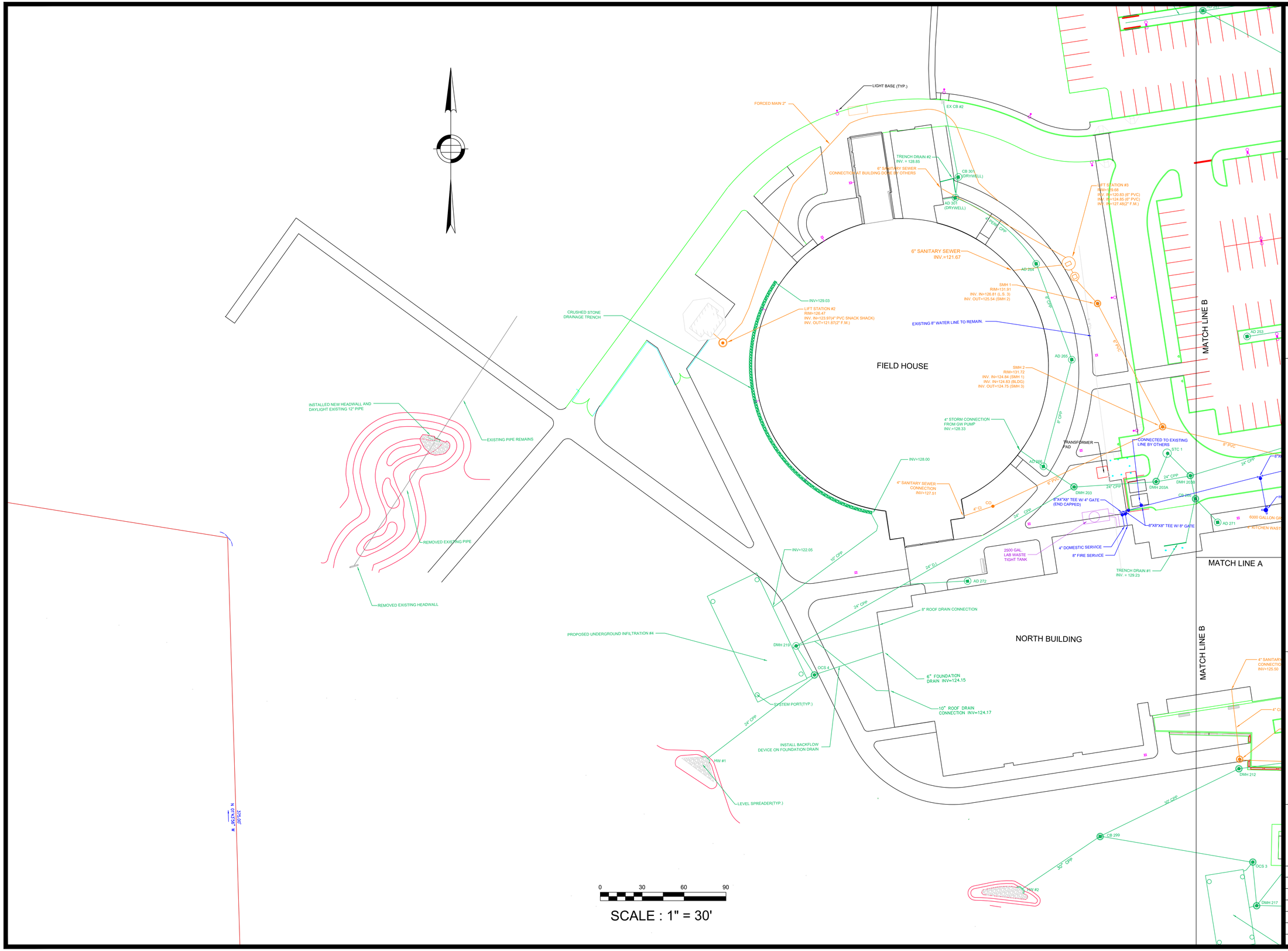
2- 28LH09

W4X13
W4X13
W4X13

W4X13
W4X13
W4X13

WR1
S4.1.9

ADD'L. UPLIFT BRIDGING REQ'D.
AT FIRST PANEL POINT EA. END
OF JOISTS -TYP.



Revisions:

Plan Title:

UTILITY AS-BUILT DRAWING

Project Title:

WAYLAND HIGH SCHOOL IN WAYLAND MASSACHUSETTS

Prepared For:

J. Derenzo Company
354 Howard Street
Brockton, Massachusetts 02302
Ph. (508) 427 6441 Fax. (508) 427 6488

Scale:

Scale: 1"=30'

SEPT. 5, 2012	Drawing No.
Project Mgr.: V.P.	
Superintendent: D.G.	
Survey: D.B.	3 OF 4
Drawn: D.B.	
Job No.: JDC: #10021	
Last Rev.:	

STRUCTURE	RIM	INV IN	FROM	INV OUT	TO
AD 250	129.10			126.16	AD 300
AD 257	129.06	126.21	AD 300	126.03	DMH 203B
AD 251	135.14			131.23	DMH 200
AD 253	133.88			130.70	AD 254
AD 254	133.65			130.70	AD 255
AD 255	133.52			130.74	DMH 200
AD 256	133.74			131.34	AD 255
AD 263	134.06			131.48	DMH 208B
AD 264	130.59			128.09	AD 265
AD 265	131.64			128.02	AD 266
AD 266	129.51	128.26 127.32	RD AD 265	127.53	DMH 203
AD 267	129.68			126.92	
AD 268	129.81			127.21	
AD 271	129.72			127.15	CB 266
AD 272	129.39	128.15	4"	127.16	
AD 273	128.78			126.99	
AD 274	129.64			126.04	
AD 275	129.84			126.59	
AD 300	128.76			126.13	AD 257
AD 301	129.88	128.28 127.83	4" CB 301	127.83	AD 264
CB 301	129.26	128.38 127.59	TD AD 301	127.42	EX CB 2
EX CB 2	129.49	126.74	CB 301		
CB 258	132.14			130.18	OUTLET #1
CB 259	129.76	127.11	CB 300	127.11 127.01	DMH 211 SF#5
CB 260	129.70			127.75	CB 265
CB 261	131.82			129.20	DMH 208B
CB 262	131.75			129.22	DMH 208B
CB 265	129.61	127.16 127.16	CB 260 SF #4	127.04 126.76	DMH 206 SF #3
CB 266	130.15			126.06	DMH 203B
CB 299					
CB 300	129.69			127.44	CB 259
DCB 252	135.50			132.25 132.00	DMH 200 SF #1
DMH 200	135.09	130.26 130.26 130.26	DCB 252 AD 251 AD 253-256	130.05	DMH 201
DMH 201	135.08	130.10	DMH 200	130.89 130.10	DMH 202 SF #1

STRUCTURE	RIM	INV IN	FROM	INV OUT	TO
DMH 202	135.06	130.03 130.10	DMH 201 SF #1	130.03	DMH 205
DMH 202A	134.71	129.46	OCS 1	129.46	DMH 216A
DMH 203	130.74	125.09 124.30 124.30	RD AD 266 DMH 203A	124.30	DMH 219
DMH 203A	130.57	125.59 125.59	DMH 203B STC 1	125.59	DMH 203
STC 1	131.07	125.72	DMH 203B	125.72	DMH 203A
DMH 203B	130.45	125.80 125.80	AD 257 CB 266	126.01 125.80	DMH 203A STC 1
DMH 205	134.64	129.84	DMH 202	129.94	OCS #1
DMH 206	129.62	125.51 125.51	CB 265 SF #3 & #4	125.51	DMH 211
DMH 206A	130.35	125.51 127.10 125.35	DMH 206 SF #5 (12") SF #5 (6")	125.51	DMH 211
DMH 208	131.97	128.57	DMH 208B	128.57 128.52	DMH 208A SF #2
DMH 208A	131.29	126.40 126.42	DMH 208 SF #2	126.40	DMH 210
DMH 208B	131.93	129.12 129.10 129.12	AD 263 CB 261 CB 262	129.10	DMH 208
DMH 210	130.86	126.25 126.01 126.04	DMH 216 DMH 208A OCS 2	126.00	DMH 206
DMH 211	130.05	125.01 124.98 125.93	DMH 206A DMH 206 CB 259	124.97	DMH 212
DMH 212	129.46	120.85	DMH 211	120.80	DMH 213
CB 299	125.29	120.05 120.05	DMH 212 OCS 3	120.00	EX HW
DMH 215	133.27	128.34 129.25	DMH 214 EX CB	129.20	DMH 216A
DMH 216	131.74	127.45	DMH 216A	127.45	DMH 210
DMH 216A	132.99	127.97 127.97	DMH 215 DMH 202A	127.97	DMH 216
DMH 217	128.51	124.25	RD	124.50 124.25	OCS #3 UI #3
DMH 218	130.41	128.02	RD	127.73 127.36	OCS #2 UI #2
DMH 219	126.60	121.50 121.82	DMH 203 RD	122.19	OCS #4
EX CB 1	132.98			129.45	DMH 215
OCS 1	134.70	129.40 129.40	DMH 205 UI #1	129.40	DMH 202A
OCS 2	130.44	127.13 127.13	DMH 218 UI #2	127.10	DMH 210
OCS 3	128.99	124.00 124.00	DMH 217 UI #3	124.00	DMH 213
OCS 4	127.74	121.83 121.83 121.84	DMH 219 UI #4 F-DRAIN	121.83	HW #1
HW #1				120.54	OCS 4
HW #2				119.48	CB 299

Revisions:

Plan Title:

UTILITY
AS-BUILT
DRAWING

Project Title:

WAYLAND
HIGH SCHOOL
IN
WAYLAND
MASSACHUSETTS

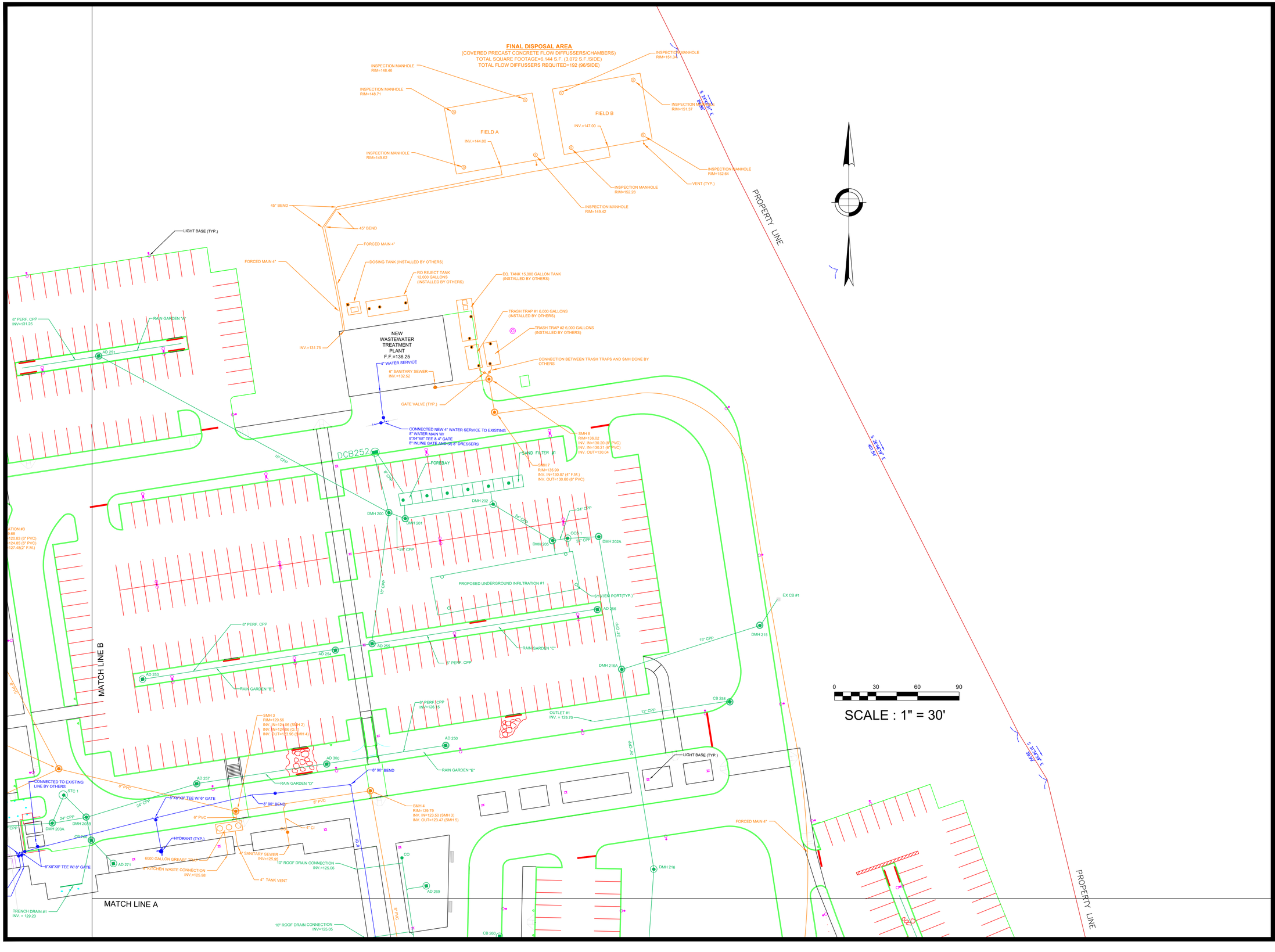
Prepared For:

J. Derenzo Company
354 Howard Street
Brockton, Massachusetts 02302
Ph. (508) 427 6441 Fax. (508) 427 6488

Scale:

Scale: N/A

SEPT. 5, 2012	Drawing No.
Project Mgr.: V.P.	
Superintendent: D.G.	
Survey: D.B.	4 OF 4
Drawn: D.B.	
Job No.: JDC: #10021	
Last Rev.:	



Revisions:

Plan Title:

UTILITY AS-BUILT DRAWING

Project Title:

WAYLAND HIGH SCHOOL IN WAYLAND MASSACHUSETTS

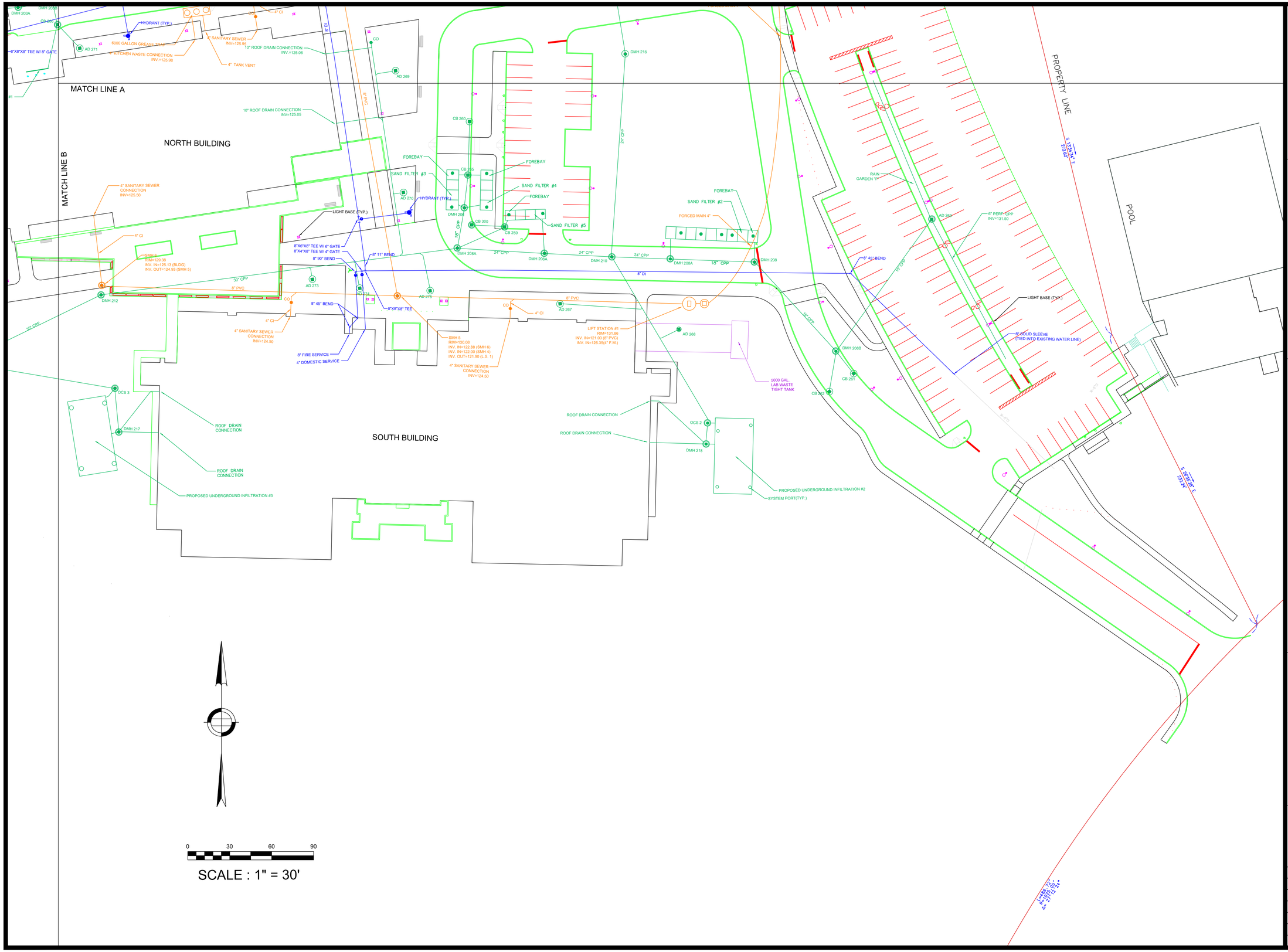
Prepared For:

J. Derenzo Company
354 Howard Street
Brockton, Massachusetts 02302
Ph. (508) 427 6441 Fax. (508) 427 6488

Scale:

Scale: 1"=30'

SEPT. 5, 2012	Drawing No.
Project Mgr.: V.P.	
Superintendent: D.G.	
Survey: D.B.	1 OF 4
Drawn: D.B.	
Job No.: JDC: #10021	
Last Rev.:	



Revisions:

Plan Title:

UTILITY AS-BUILT DRAWING

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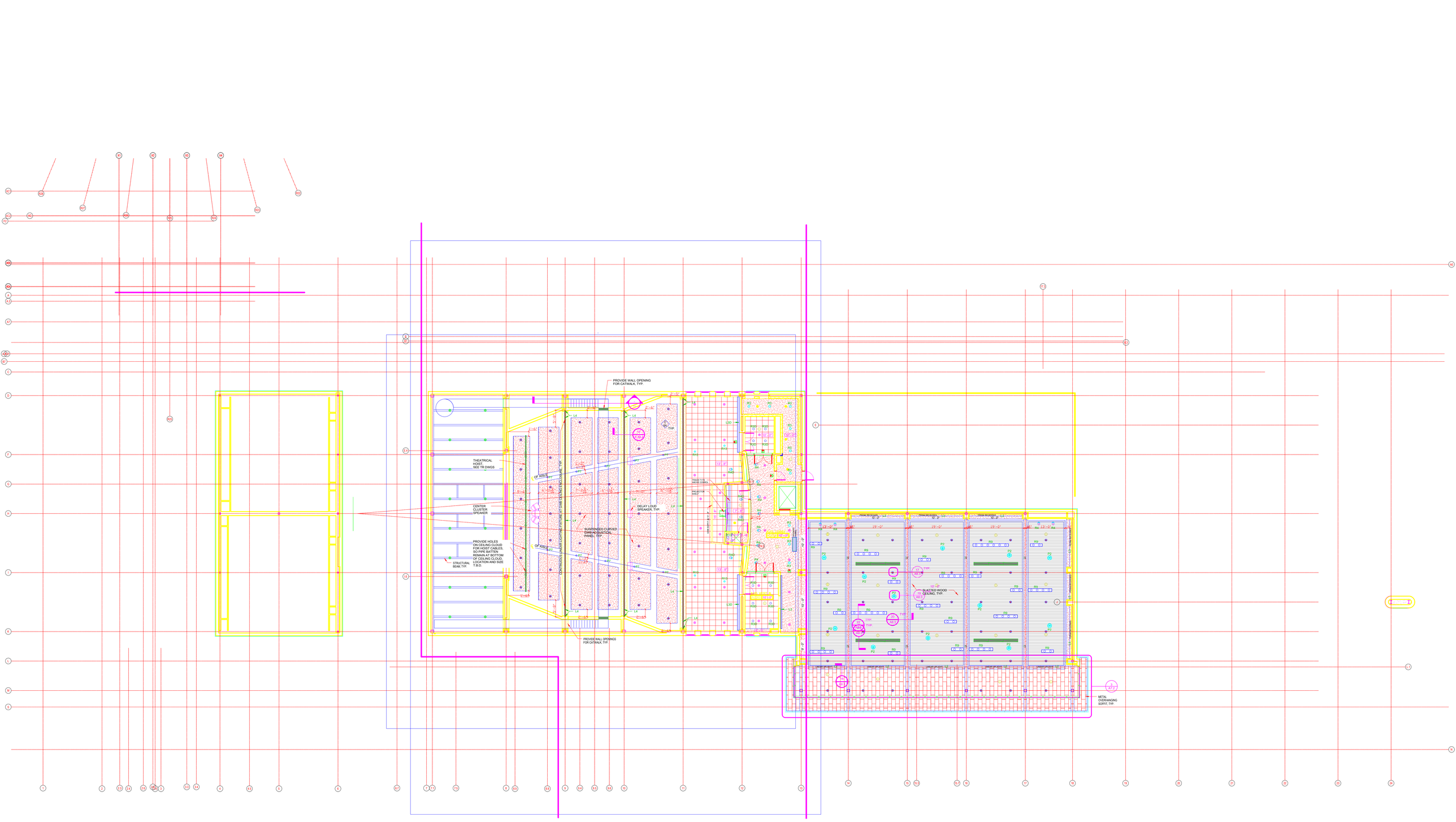
SEPT. 5, 2012	Drawing No.
Project Mgr.: V.P.	
Superintendent: D.G.	
Survey: D.B.	2 OF 4
Drawn: D.B.	
Job No.: JDC: #10021	
Last Rev.:	

FIELD HOUSE
PART 1
PART 1
PART 2
PART 2
PART 3
PART 2
PART 3
PART 1
PART 2
EXPANSION JOINT
METAL SOFFIT @ 10'-0"
METAL SOFFIT @ 10'-0"
EXTERIOR STRUCTURE
STRUCTURAL BEAM, TYP.
ROOF DRAIN ABOVE
AWP
EXP DUCT
FITNESS EXP
EXP
SEE NOTE A
BOILER FLUE
MECH. ROOM EXP-U
MAIN ELEC. ROOM EXP-U
SEE NOTE A
SEE NOTE A
SEE NOTE A


PROVIDE WALL OPENING FOR CATWALK, TYP.
THEATRICAL HOIST; SEE TR DWGS
CENTER CLUSTER SPEAKER
DELAY LOUD SPEAKER, TYP.
SUSPENDED CURVED DWH ACOUSTICAL PANEL, TYP.
PROVIDE HOLES ON CEILING CLOUD FOR HOIST CABLES, SO PIPE BATTEN REMAIN AT BOTTOM OF CEILING CLOUD; LOCATION AND SIZE T.B.D.
STRUCTURAL BEAM, TYP.
CONTINUOUS LINEAR LIGHTING FIXTURE; SEE ELECTRICAL
PROVIDE WALL OPENINGS FOR CATWALK, TYP.
SLATTED WOOD CEILING, TYP.
METAL OVERHANGING SOFFIT, TYP.
TRACK TYP. ABOVE CURVE
PROJECTOR PIT
SEE SHEET A5.1
OF ABS'V
TYP.
L4
L30
L10
L12
R1
R2
R3
R4
R5
R6
R7
R8
R9
R10
R11
R12
R13
R14
R15
R16
R17
R18
R19
R20
R21
R22
R23
R24
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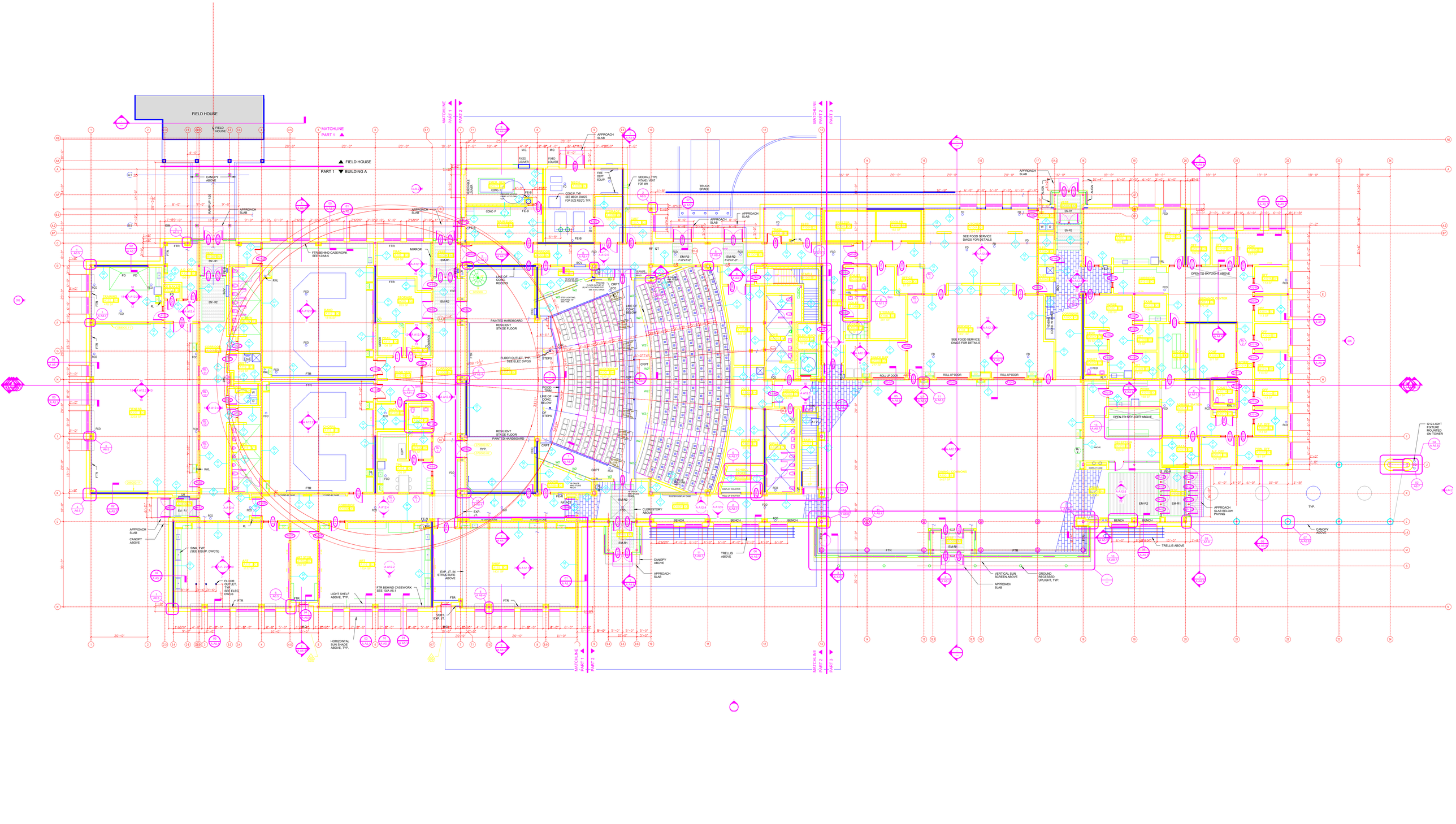
R39
R40


FIELD HOUSE
MATCHLINE PART 1
FIELD HOUSE
PART 1 BUILDING A
MATCHLINE PART 2 PART 1
MATCHLINE PART 2 PART 3
CANOPY ABOVE
APPROACH SLAB
RAMP UP 1:20
FTR
FTR BEHIND CASEWORK SEE 10/A8.5
MIRROR
EM-R1
EM-R2
RWL
FCO
FD
RL
SINK, TYP. (SEE EQUIP. DWG'S)
FLOOR OUTLET, TYP. SEE ELEC DWGS
LIGHT SHELF ABOVE, TYP.
HORIZONTAL SUN SHADE ABOVE, TYP.
EXP. JT. IN STRUCTURE ABOVE
VERT EXP. JT.
PAINTED HARDBOARD RESILIENT STAGE FLOOR
RESILIENT STAGE FLOOR PAINTED HARDBOARD
FLOOR OUTLET, TYP. SEE ELEC DWGS
WOOD TRIM
LINE OF CONC. BELOW
ST. STEPS
CRPT
W2
W2' STEP LIGHTING MOUNTED 16" O.C.P. TYP.
LINE OF CONC. RECESS
CONC.P. TYP. SEE MECH. DWGS FOR SIZE REQ'D. TYP
FIRE EXT. EQUIP.
SIDEWALL TYPE INTAKE / VENT FOR RH
TRUCK SPACE
FIXED LOUVER
M.O.
SCV
RF. QT
EXP. JT.
CLERESTORY ABOVE
BENCH
TRELLIS ABOVE
SEE FOOD SERVICE DWGS FOR DETAILS
ROLL UP DOOR
DISPLAY COUNTER
ROLL UP SHUTTER
OPEN TO SKYLIGHT ABOVE
VERTICAL SUN SCREEN ABOVE
GROUND RECESSED UPLIGHT, TYP.
APPROACH SLAB BELOW PAVING
TYP.
G12-LIGHT FIXTURE MOUNTED ON TOWER
20'-0"

MATCHLINE PART 1 / PART 2

MATCHLINE PART 2 / PART 3

OPEN TO BAND BELOW

OPEN TO CHORAL BELOW

OPEN TO STAGE BELOW

OPEN TO AUDITORIUM BELOW

OPEN TO DINING/COMMONS BELOW

CANOPY BELOW

EXP. JT. DOWN - VERTICAL FACE

EXP. JT. THRU ROOF

PROVIDE OPENING FOR CATWALK, TYP.

SEE A A.2.3.2 FOR ROOF PLAN

SEE A A.2.3.1 FOR ROOF PLAN

SEE A A.2.3.3 FOR ROOF PLAN

CATWALK ABOVE DASHED

POST UP FROM LOWER BEAM, SEE STRUC. DWGS

OPEN TO BELOW

OPEN TO ABOVE

SKYLIGHT OPEN TO AUDITORIUM BELOW

SKYLIGHT OPEN TO RECEPTION BELOW

VESTIBULE BELOW

RADIUS 124'-9" EOS DASHED

RADIUS 124'-9" EOS

SEE PLAN A2.1.21 FOR STEP DIMENSIONS BELOW

EXP. JT. AT INSIDE VERTICAL FACE

ACOUSTIC DOOR

ACOUSTIC PANEL

CANOPY ABOVE

LAMP

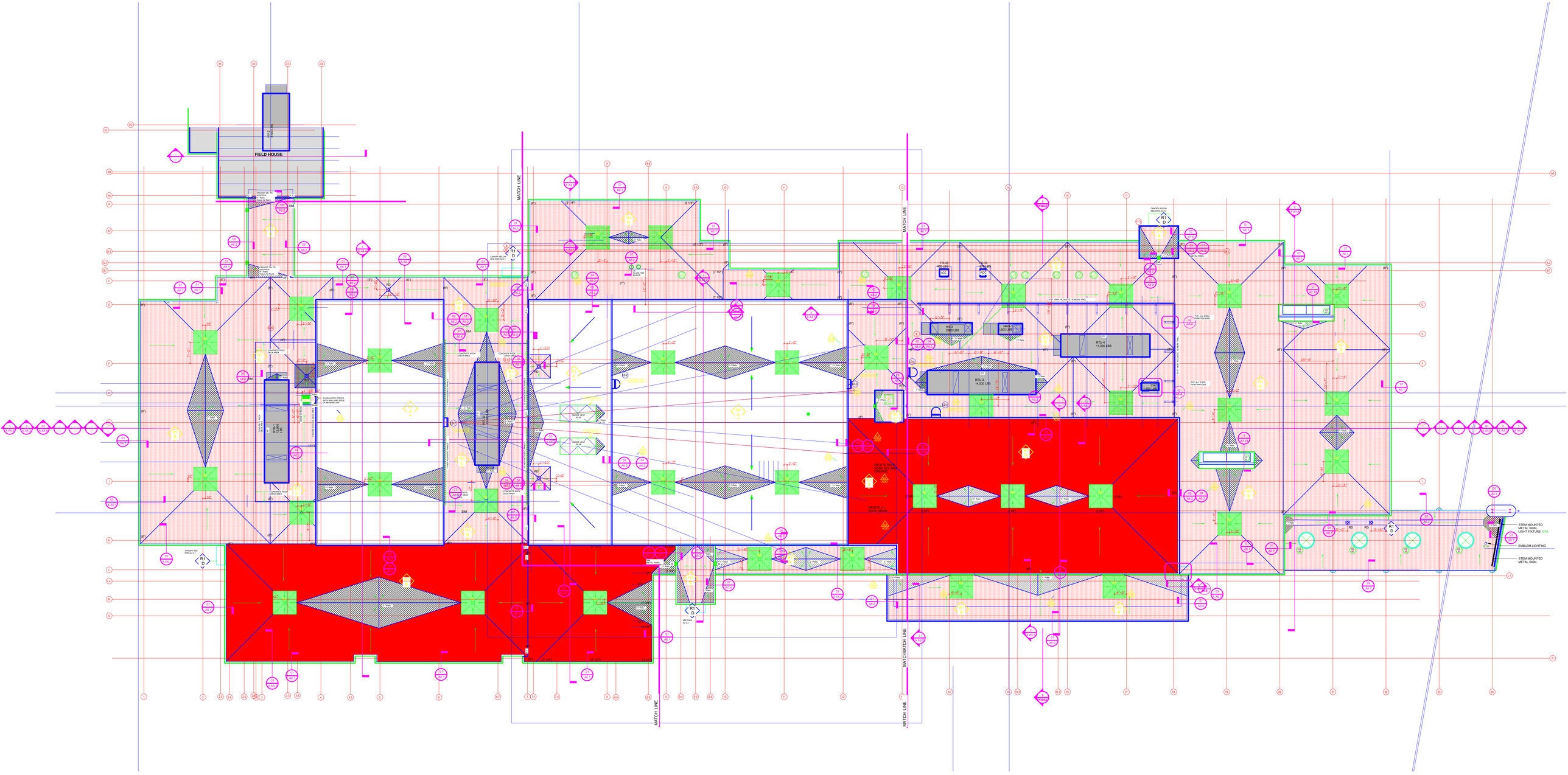
UP

DN

R.O.

EQ.

TYP.


FIELD HOUSE
MATCH LINE
MATCH LINE
MATCH LINE
MATCH LINE
RTU-1
RTU-2
RTU-3
RTU-4
RTU-5
RTU-6
RTU-7
RTU-8
RTU-9
RTU-10
RTU-11
RTU-12
RTU-13
RTU-14
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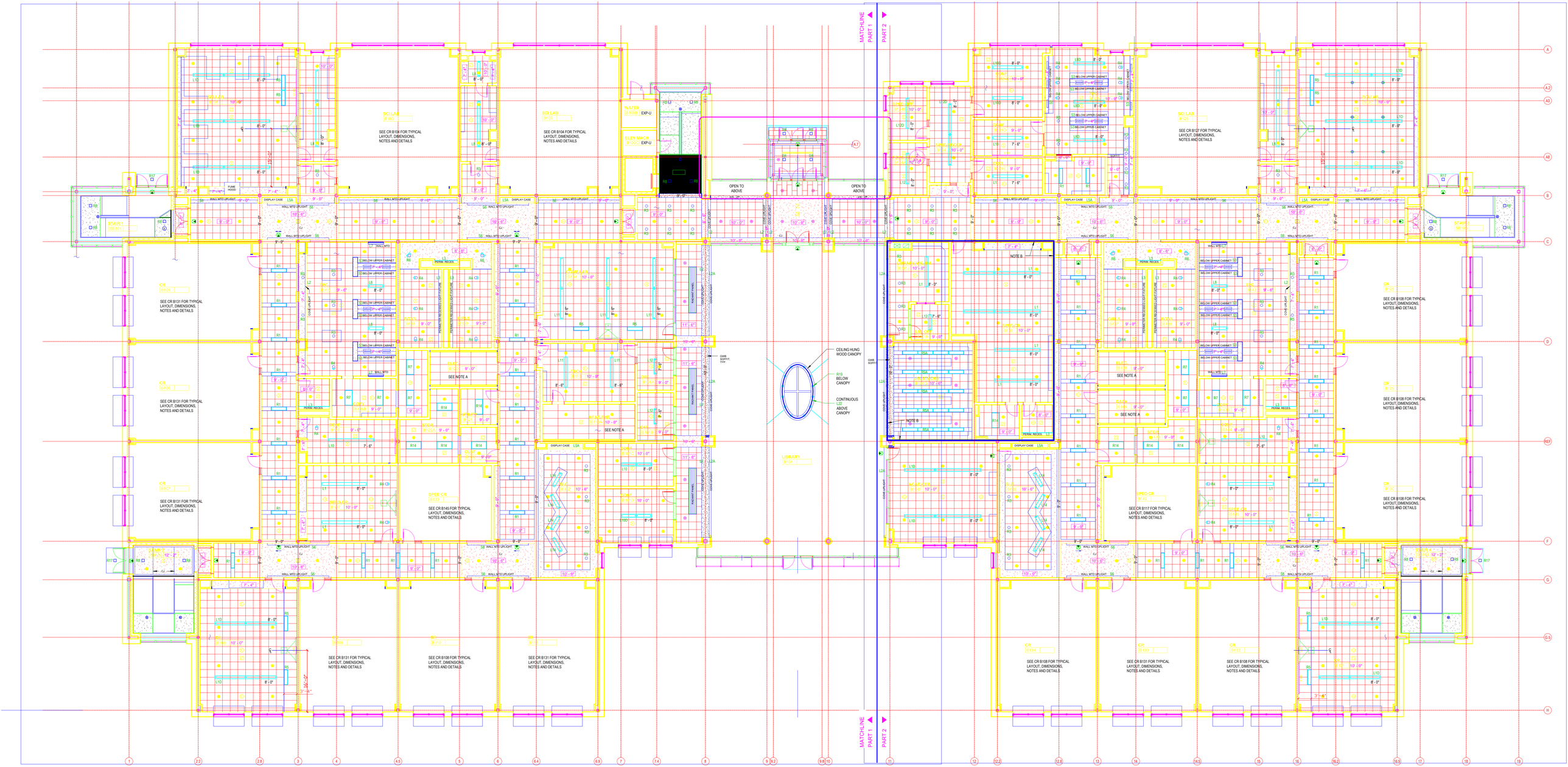
RTU-40


MATCHLINE PART 1
PART 2
SCI LAB B103
SEE CR B106 FOR TYPICAL LAYOUT, DIMENSIONS, NOTES AND DETAILS
SCI LAB B102
SEE CR B104 FOR TYPICAL LAYOUT, DIMENSIONS, NOTES AND DETAILS
WATER B100B EXP-U
ELEV MACH B100C EXP-U
OPEN TO ABOVE
SCI LAB B126
SEE CR B127 FOR TYPICAL LAYOUT, DIMENSIONS, NOTES AND DETAILS
STAIR 1 SB101
STAIR 3 SB102
CR B105
SEE CR B131 FOR TYPICAL LAYOUT, DIMENSIONS, NOTES AND DETAILS
CR B129
SEE CR B108 FOR TYPICAL LAYOUT, DIMENSIONS, NOTES AND DETAILS
CR B107
SEE CR B131 FOR TYPICAL LAYOUT, DIMENSIONS, NOTES AND DETAILS
CR B130
SEE CR B108 FOR TYPICAL LAYOUT, DIMENSIONS, NOTES AND DETAILS
SPED CR B123
SEE CR B145 FOR TYPICAL LAYOUT, DIMENSIONS, NOTES AND DETAILS
SPED CR B142
SEE CR B117 FOR TYPICAL LAYOUT, DIMENSIONS, NOTES AND DETAILS
CR B109
SEE CR B131 FOR TYPICAL LAYOUT, DIMENSIONS, NOTES AND DETAILS
CR B110
SEE CR B108 FOR TYPICAL LAYOUT, DIMENSIONS, NOTES AND DETAILS
CR B111
SEE CR B131 FOR TYPICAL LAYOUT, DIMENSIONS, NOTES AND DETAILS
CR B134
SEE CR B108 FOR TYPICAL LAYOUT, DIMENSIONS, NOTES AND DETAILS
CR B133
SEE CR B131 FOR TYPICAL LAYOUT, DIMENSIONS, NOTES AND DETAILS
CR B132
SEE CR B108 FOR TYPICAL LAYOUT, DIMENSIONS, NOTES AND DETAILS
CEILING HUNG WOOD CANOPY
R19 BELOW CANOPY
CONTINUOUS L23 ABOVE CANOPY
LIBRARY B101
SEE NOTE A
NOTE B
MATCHLINE PART 1
PART 2

MATCHLINE PART 1

MATCHLINE PART 2

SCI LAB B203

SCI LAB B202

SEE CR B204 FOR TYPICAL LAYOUT, DIMENSIONS, NOTES AND DETAILS OPP

WATER HEATER B201A

VIDEO LAB B224 EXP

NOTE: REFER TO SHEET B TL3.1 FOR DETAILED RCP

GRAPHICS LAB B225 10' - 0"

CONTROL B226 9' - 0"

SCI LAB B227

SEE CR B227 FOR TYPICAL LAYOUT, DIMENSIONS, NOTES AND DETAILS

SCI LAB B228 10' - 0"

FUME HOOD

DISPLAY CASE L5A

WALL MTD UPLIGHT

ALUM. FRAMED SKYLIGHT ABOVE

CR B200

SEE CR B231 FOR TYPICAL LAYOUT, DIMENSIONS, NOTES AND DETAILS

CR B201

SEE CR B231 FOR TYPICAL LAYOUT, DIMENSIONS, NOTES AND DETAILS

CR B227

SEE CR B231 FOR TYPICAL LAYOUT, DIMENSIONS, NOTES AND DETAILS

CR B228

SEE CR B208 FOR TYPICAL LAYOUT, DIMENSIONS, NOTES AND DETAILS

CR B229

SEE CR B208 FOR TYPICAL LAYOUT, DIMENSIONS, NOTES AND DETAILS

CR B230

SEE CR B208 FOR TYPICAL LAYOUT, DIMENSIONS, NOTES AND DETAILS

MECH. CHASE

SEE NOTE A

DATA B216 9' - 0"

DATA B230 9' - 0"

COORD B215 9' - 0"

COORD B231 9' - 0"

CUSTODIAN B205 9' - 0"

SPED CR B223

SEE CR B217 FOR TYPICAL LAYOUT, DIMENSIONS, NOTES AND DETAILS

SPED CR B242

SEE CR B245 FOR TYPICAL LAYOUT, DIMENSIONS, NOTES AND DETAILS

LANGUAGE LAB B221 10' - 0"

LANGUAGE LAB B222 10' - 0"

LANGUAGE LAB B222A 10' - 0"

GWB COFFERED CEILING W/ 1/2" METAL REVEAL, TYP.

NOTE: REFER TO SHEET B TL3.1 FOR ADDITIONAL INFORMATION

ACOUSTICAL CEILING PANEL TYP.

SOFFIT WALL MOUNTED SIDE LINEAR DIFFUSER, TYP OF (3)

CR B234

SEE CR B208 FOR TYPICAL LAYOUT, DIMENSIONS, NOTES AND DETAILS

CR B233

SEE CR B231 FOR TYPICAL LAYOUT, DIMENSIONS, NOTES AND DETAILS

CR B232

SEE CR B208 FOR TYPICAL LAYOUT, DIMENSIONS, NOTES AND DETAILS

CR B236 10' - 0"

CR B235 10' - 0"

CR B231 10' - 0"

CR B208

SEE CR B231 FOR TYPICAL LAYOUT, DIMENSIONS, NOTES AND DETAILS

CR B210

SEE CR B208 FOR TYPICAL LAYOUT, DIMENSIONS, NOTES AND DETAILS

CR B211

SEE CR B231 FOR TYPICAL LAYOUT, DIMENSIONS, NOTES AND DETAILS

CR B212 10' - 0"

CR B213 10' - 0"

CR B214 10' - 0"

WALL MTD

BELOW UPPER CABINET

PERM. RECES.

PERIMETER RECESSED LIGHT FIXTURE

COVE UPLIGHT

16'-0"

3' - 4"

7' - 4"

8' - 0"

9' - 0"

10' - 0"

12' - 4"

21' - 8" AFF

20' - 8" AFF

MATCHLINE PART 1

MATCHLINE PART 2

FTR BEHIND CASEWORK SEE 07/B A5.1

FTR BEHIND CASEWORK SEE 07/B A5.1

FTR BEHIND CASEWORK SEE 07/B A5.1

FIRE DEPT CONNECTION

APPROACH SLAB, CANOPY ABOVE

APPROACH SLAB, CANOPY ABOVE

FTR BEHIND TABLES

FTR BEHIND TABLES

APPROACH SLAB, CANOPY ABOVE

SINK, TYP. SEE EQUIP. DWG'S

TYPICAL SCI LAB ELEVATIONS

SCI LAB B104 C1

PREP B105A C5

SCI LAB B103 C6

PREP B102A C5

SCI LAB B102 C6

SCI LAB B126 C1

PREP B126A C5

SCI LAB B127 C1

SINK, TYP. SEE EQUIP. DWG'S

14 LOCKERS (DBL TIER)

24 LOCKERS (DBL TIER)

16 LOCKERS (DBL TIER)

16 LOCKERS (DBL TIER)

24 LOCKERS (DBL TIER)

14 LOCKERS (DBL TIER)

DISPLAY CASE

DISPLAY CASE

DISPLAY CASE

STAIR 1 S1101 E1

EM-R1

STAIR 1 S1101 E1

EM-R1

CANOPY ABOVE

CORRIDOR B100E A3

CORRIDOR B100H A3

CORRIDOR B100K A3

CR B104 C1

CR B103 C1

CR B102 C1

CR B101 C1

CR B129 C1

CR B128 C1

CR B127 C1

CR B126 C1

TPC B115 D1

TPC B143 D1

BOYS B118 F1

GIRLS B117 F1

BOYS B142 F1

GIRLS B141 F1

FLOOR OUTLET, TYP. SEE ELEC DWGS

FLOOR OUTLET, TYP. SEE ELEC DWGS

2'-6" TYP.

TOILET B116A F2

TOILET B143A F2

SINK, TYP. SEE EQUIP. DWGS

COPY B115B D2

COPY B143B D2

CONF B115C D1

CONF B147 D1

ELEC B120 G1

ELEC B139 G1

UTILITY B121 G1

DATA B140 G2

CUST B122 F4

CUST B141A F4

STOR B102A A5

STOR B141B G2

COMP LAB B114 C1

TECH B113 D2

HEAD END B113A D2

OFF B110A D1

OFF B109B D1

OFF B101A D1

CONF B101C D1

SLC B112 D1

LIBRARY B101 B2

LIB. STACKS B101G B2

LIB. OFF B101H D1

LIBRARY WK. RM. B101J D1

ACAD CTR B101F C2

SLC B135 D1

SPED CR B117 C1

SPED CR B131 C1

SPED CR B136 C2

SPED CR B142 C1

SPED CR B145 C1

SPED OFF. B124 D1

SPED REC. B124 D1

PSYCH OFF. B125 D1

CONF B124C D1

TEST B124E D1

COPY B124D D1

TPC B124B D1

SPED OFF. B124 D1

SPED REC. B124 D1

PSYCH OFF. B125 D1

CONF B124C D1

TEST B124E D1

COPY B126B D2

TPC B127B D1

SPED CR B134 C2

SPED CR B133 C1

SPED CR B132 C2

SPED CR B131 C1

SPED CR B145 C1

SPED CR B146 C1

SPED CR B147 C1

SPED CR B148 C1

CORRIDOR B100G A3

CORRIDOR B100J A3

CORRIDOR B100L A3

ELEC B138 G1

DATA B137 G2

STOR B141C G2

CUST B141C F4

TOILET B143C F2

COPY B143C D2

CONF B147 D1

CORRIDOR B100K A3

CORRIDOR B100J A3

CORRIDOR B100L A3

ELEC B138 G1

DATA B137 G2

STOR B141C G2

CUST B141C F4

TOILET B143C F2

COPY B143C D2

CONF B147 D1

CORRIDOR B100K A3

APPROACH SLAB, CANOPY ABOVE

MANUFACTURED CASEWORK, SEE EQUIPMENT PLANS, TYP.

SOFFIT ABOVE CASEWORK, TYP.

VERTICAL SUNSCREEN ABOVE

APPROACH SLAB

APPROACH SLAB, CANOPY ABOVE

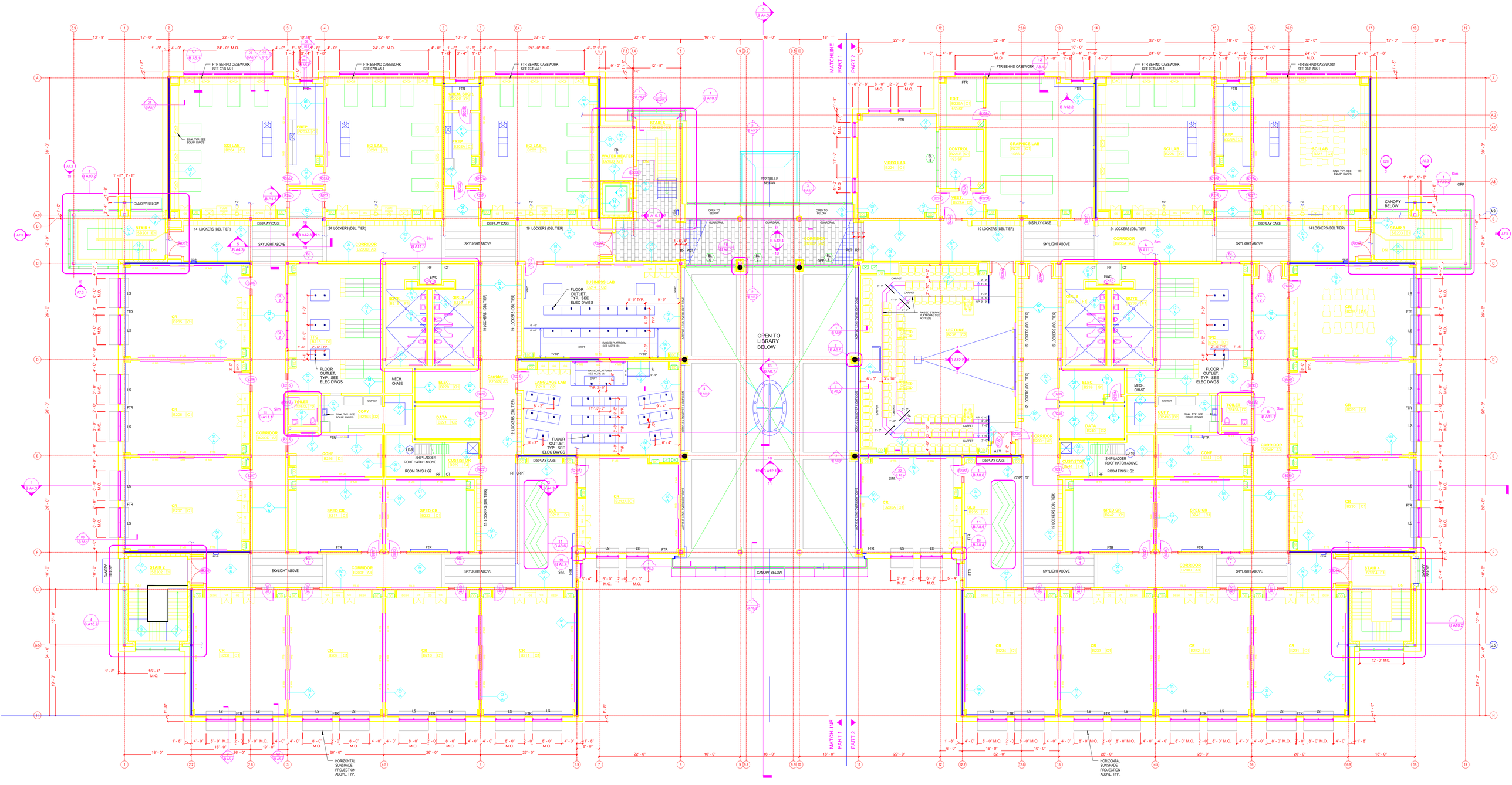
APPROACH SLAB, CANOPY ABOVE

TYPICAL CLASSROOM ELEVATIONS

GAS ENTRY / METER

HORIZONTAL SUNSHADE PROJECTION ABOVE, TYP.

HORIZONTAL SUNSHADE PROJECTION ABOVE, TYP.


MATCHLINE PART 1
MATCHLINE PART 2
OPEN TO LIBRARY BELOW
VESTIBULE BELOW
SCI LAB B104 C5
SCI LAB B103 C5
SCI LAB B102 C5
SCI LAB B101 C5
VIDEO LAB B224 C5
GRAPHICS LAB B225 C5
SCI LAB B228 C5
SCI LAB B227 C5
CR B205 C6
CR B206 C6
CR B207 C6
CR B208 C6
CR B209 C6
CR B210 C5
CR B211 C5
CR B212A C5
CR B230 C6
CR B229 C5
CR B232 C5
CR B233 C5
CR B234 C5
CR B235A C5
PREP B203A C5
PREP B202A C5
PREP B226A C5
CONTROL B224B C5
EDIT B225A C5
VEST B224A C5
CHEM. STOR. B205B C5
STAIR 1 SB201 E1
STAIR 2 SB202 E1
STAIR 3 SB203 E1
STAIR 4 SB204 E1
STAIR 5 SB205 E1
CORRIDOR B200G A3
CORRIDOR B200H A3
CORRIDOR B200J A3
CORRIDOR B200K A3
CORRIDOR B200A A2
BOYS B224 F1
GIRLS B225 F1
TOILET B243A F2
TOILET B243B F2
DATA B221 G2
DATA B240 G2
ELEC B220 G1
ELEC B239 G1
MECH. CHASE
CUST/STOR B222 F4
CUST/STOR B241 F4
SPED CR B217 C1
SPED CR B223 C5
SPED CR B242 C1
SPED CR B245 C1
CONF B216 D1
CONF B244 D1
SLC B212 D1
SLC B235 D1
BUSINESS LAB B214 C2
LANGUAGE LAB B218 C2
LECTURE B236 C2
COPY B215B D2
COPY B243B D2
COPIER
WATER HEATER B200E G1
FD W
FD M
FTR
LS
SKYLIGHT ABOVE
CANOPY BELOW
DISPLAY CASE
SINK, TYP. SEE EQUIP. DWGS
FLOOR OUTLET, TYP. SEE ELEC DWGS
RAISED PLATFORM SEE NOTE (B)
RAISED STEPPED PLATFORM, SEE NOTE (B)
SHIP LADDER ROOF HATCH ABOVE
ROOM FINISH: G2
HORIZONTAL SUNSHADE PROJECTION ABOVE, TYP.
14 LOCKERS (DBL TIER)
24 LOCKERS (DBL TIER)
16 LOCKERS (DBL TIER)
10 LOCKERS (DBL TIER)
19 LOCKERS (DBL TIER)
12 LOCKERS (DBL TIER)
15 LOCKERS (DBL TIER)
9 LOCKERS (DBL TIER)

RTU-1
6100 LBS
UNIT SIZE TO BE DETERMINED

MATCH LINE

MATCH LINE

RTU- 6
14,000 LBS

RTU- 5
14,000 LBS

RTU- 7
16,000 LBS

CONCRETE ROOF DECK AREA

ALUM RTA OPENG WITH BACK OF 7'-6"X 8'-0" MECHANICAL CHASE

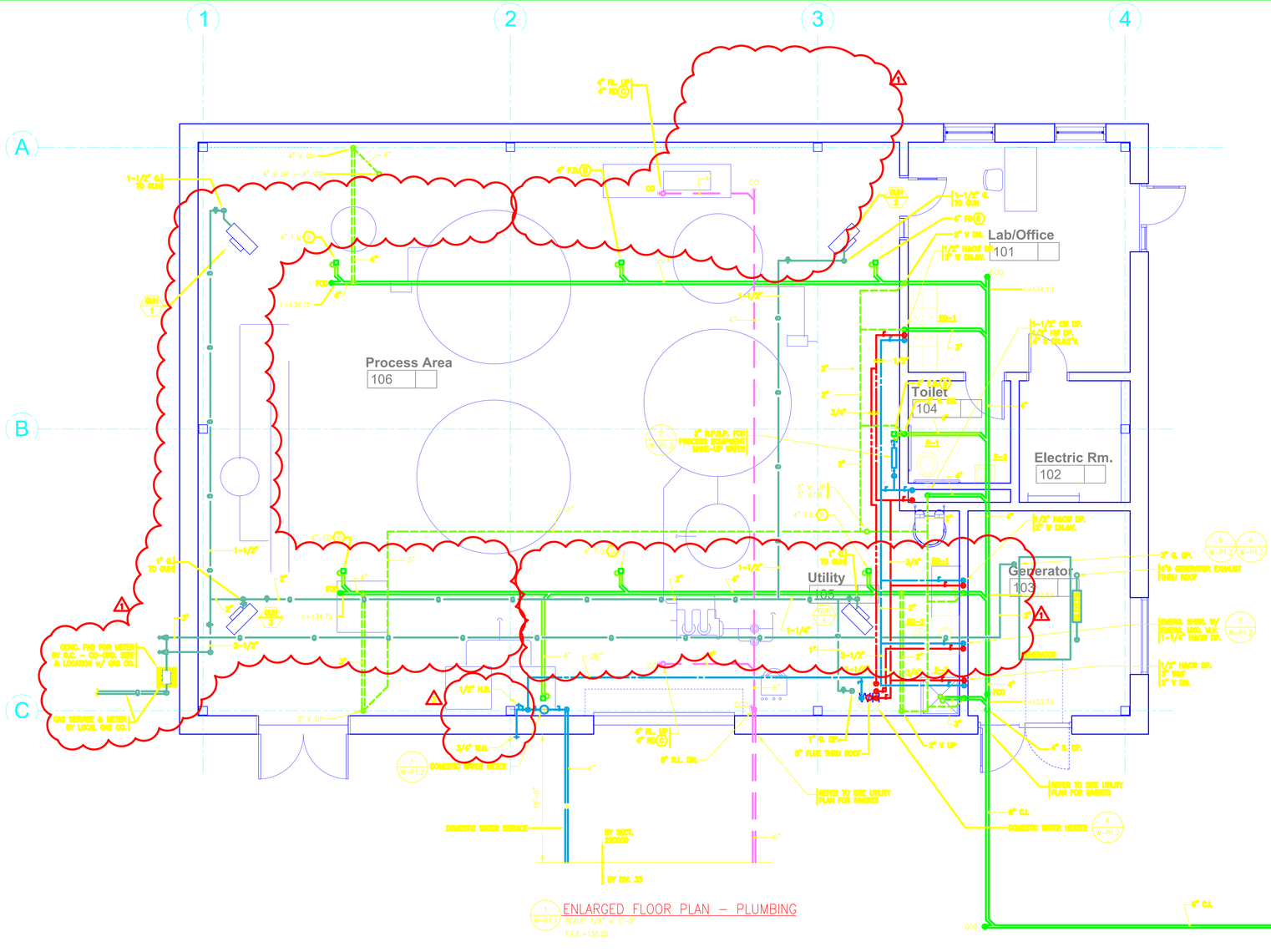
CANOPY BELOW SEE DWG B 2.2.1

CANOPY BELOW SEE DWG B 2.2.2

CANOPY BELOW SEE DWG B 2.2.3

RD

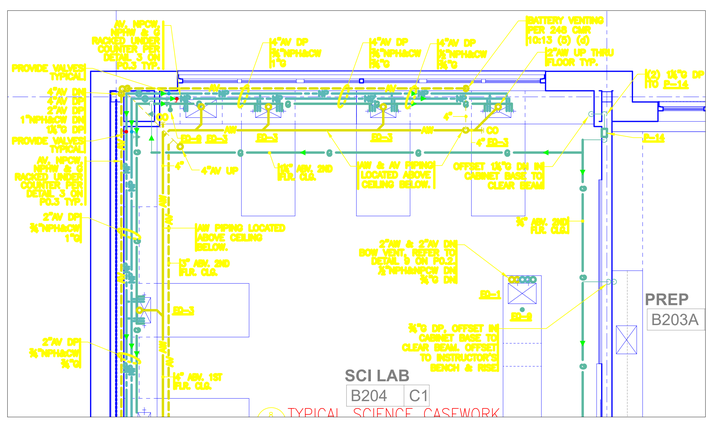
RO

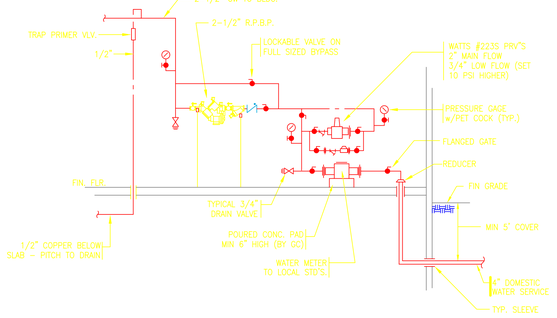


1 W-P1.1 ENLARGED FLOOR PLAN – PLUMBING

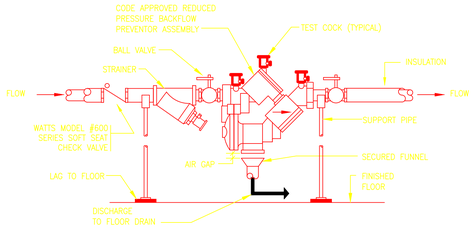
SCALE: 1/8" = 1'-0"

F.F.E.=136.25


4"W DP W/HP&CW 11'-0"
4"W UP
4"W DP W/HP&CW 11'-0"
4"W DP W/HP&CW 11'-0"
4"W UP THRU FLOOR TYP.
BATTERY VENTING PER 248 CMR 10.13 (3) (c)
(2) 1½"Ø DP TO P-14
PROVIDE VALVES TYPICAL
2"W DP W/HP&CW 11'-0"
1"W DP W/HP&CW 11'-0"
PROVIDE VALVES TYPICAL
4"W UP
4"W DP W/HP&CW 11'-0"
4"W UP
4"W UP
4"W UP

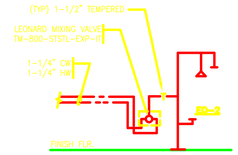


1 W-P1.2 SCHEMATIC WATER SERVICE PIPING
N.T.S.

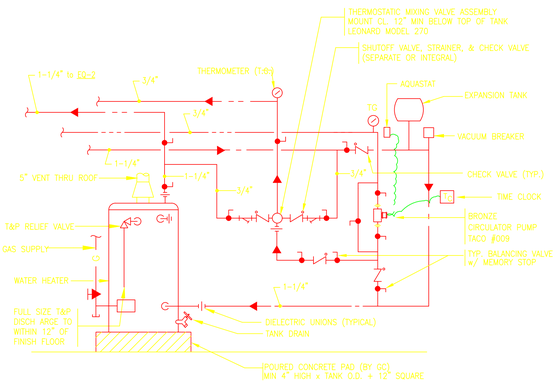


2 W-P1.2 REDUCED PRESSURE BACKFLOW PREVENTOR ASSEMBLY (R.P.B.P.) DETAIL
N.T.S.

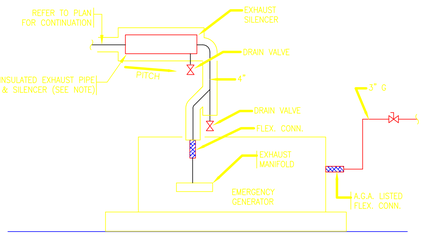
NOTES:
1. LOCATE BACKFLOW PREVENTOR 3' TO 4' ABOVE FINISHED FLOOR, 1' FROM WALL AND EASILY ACCESSIBLE.
2. MATERIALS AND METHODS FOR THIS INSTALLATION SHALL CONFORM TO ALL STATE AND U.S. PUBLIC HEALTH SERVICES CODES AND REGULATIONS.
3. FILE FOR AND OBTAIN ALL REQUIRED APPROVALS AND PERMITS PRIOR TO INSTALLATION.



3 W-P1.2 TYP. WATER AT EMERG. SHOWER/EYEWASH
N.T.S.

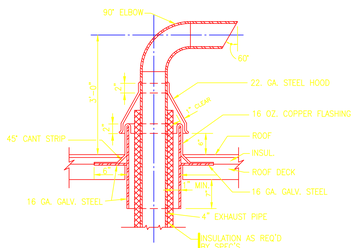


4 W-P1.2 WATER HEATER PIPING DETAIL
N.T.S.

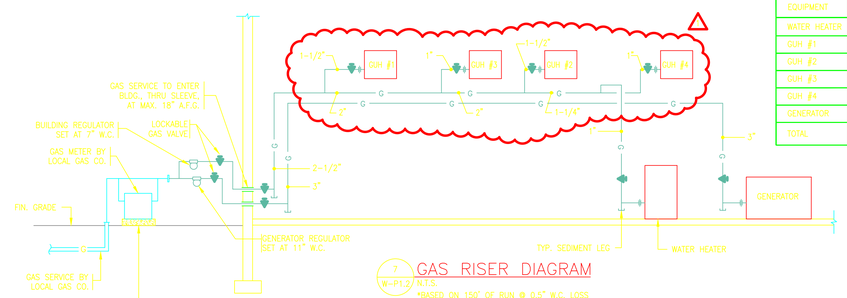


5 W-P1.2 EMERGENCY GENERATOR EXHAUST PIPING SCHEMATIC
N.T.S.

NOTE:
1. GENERATOR EXHAUST SHALL BE SCHED. 40 ANSI A-53 BLACK STEEL PIPING w/BUTT WELDED ENDS, w/ SCHED. 40 BUTT WELDED END FITTINGS. INSULATE w/3 LAYERS OF 2" THICK CALCIUM SILICATE BLOCK (6" TOTAL) WIRED IN PLACE & COVERED w/ 1/2" THICK CEMENT TROWELED SMOOTH & COVERED w/8 oz. CANVAS JACKET.
2. SILENCER & A.G.A. LISTED FLEX CONNECTOR FOR SUPPLY & EXHAUST TO BE BE SUPPLIED BY THE E.C. & INSTALLED BY THE P.C.



6 W-P1.2 EMERGENCY GENERATOR EXHAUST DETAIL
N.T.S.

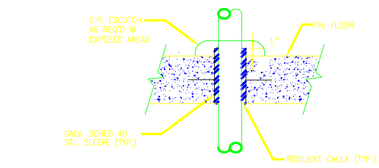


7 W-P1.2 GAS RISER DIAGRAM
N.T.S.
*BASED ON 150' OF RUN @ 0.5" W.C. LOSS

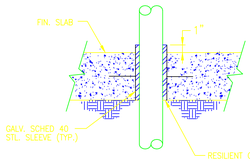
TYPICAL P.C. TO MAKE FINAL CONNECTIONS TO GAS TRAIN VENTS. TERMINATE VENTS THRU ROOF VENTS SHALL BE SIZED IN ACCORDANCE WITH 248 CMR TABLE 7.04. P.C. TO COORDINATE w/ EQUIPMENT MANUFACTURER FOR # OF VENTS.

GAS LOAD BREAKDOWN

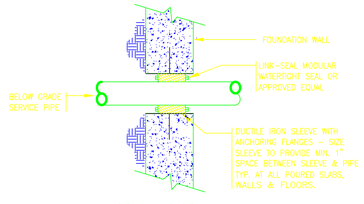
EQUIPMENT	BTUH LOAD	MIN. PRESS. (W.C.)
WATER HEATER	140,000	5"
CUH #1	400,000	5"
CUH #2	400,000	5"
CUH #3	75,000	5"
CUH #4	75,000	5"
GENERATOR	1,650,000	7"
TOTAL	2,740,000	



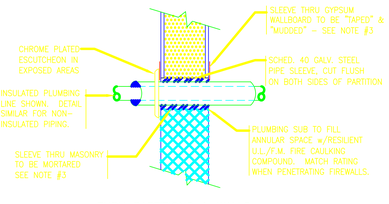
THRU CONC. FLOORS
N.T.S.



THRU SLAB ON GRADE
N.T.S.



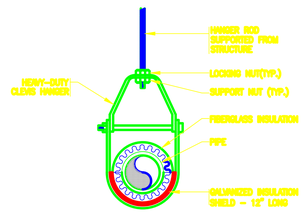
BELOW GRADE



THRU PARTITIONS & WALLS

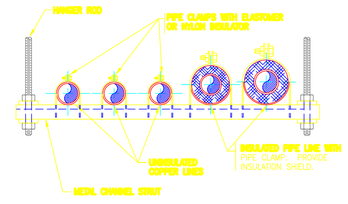
8 W-P1.2 TYPICAL PLUMBING SLEEVE CONDITION DETAILS
N.T.S.

NOTE:
1. ALL PIPING PENETRATING ALL PARTITIONS, WHETHER FIRE OR SMOKE RATED OR NOT, CONCEALED OR EXPOSED, SHALL BE SLEEVED AS DETAILED.
2. WHERE CONC. WALLS, SLABS, ETC., ARE CORE DRILLED, INSTALL SLEEVE FLUSH WITH BOTH SIDES, CAULKED & LEADED IN PLACE.
3. REFER TO DIVISION 4 & 9 FOR PROCEDURES & METHODS OF PATCHING AROUND SLEEVES AT GYPSUM, PLASTER & MASONRY. REFER TO SPECS FOR DELINEATION OF RESPONSIBILITY
4. SLEEVES SHALL BE SIZED TO PROVIDE MIN. 1" CLEARANCE BETWEEN PIPE O.D. & SLEEVE I.D.



9 W-P1.2 TYPICAL PIPE HANGER DETAIL
N.T.S.

THIS DETAIL INDICATES HANGING OF INSULATED PIPING WHICH MAY BE EITHER WATER OR STORM DRAIN. CLEVIS HANGER DETAIL APPLIES TO ALL PLUMBING PIPING ON THIS PROJECT.



10 W-P1.2 TRAPEZE PIPE HANGER
N.T.S.

HMFH Architects, Inc.
Historic Preservation
130 Bishop Allen Drive
Cambridge, MA 02139
t. 617.492.2200
f. 617.492.3131
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BID SET
09/03/2010

PLAN NORTH
TRUE NORTH

Wayland High School
Wayland, MA
Legend, Notes & Details
Waste Water Treatment Plant
SCALE: AS NOTED DRAWN BY: MLP CHECKED BY: JMC

DRAWING NUMBER
W-P1.2

JOB NUMBER 426409

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Appendix C

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands

WPA Form 5 – Order of Conditions

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
322-734
MassDEP File #

eDEP Transaction #

City/Town

A. General Information

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.

1. From: Wayland
Conservation Commission

2. This issuance is for (check one): a. ☒ Order of Conditions b. ☐ Amended Order of Conditions

3. To: Applicant:

Gary
a. First Name

Burton
b. Last Name

Town of Wayland, Sup. of Schools
c. Organization

Town Hall, 41 Cochituate Road
d. Mailing Address

Wayland
e. City/Town

MA
f. State

01778
g. Zip Code

4. Property Owner (if different from applicant):

Same as applicant
a. First Name

b. Last Name

c. Organization

d. Mailing Address

e. City/Town

f. State

g. Zip Code

5. Project Location:

260 Old Connecticut Path
a. Street Address

Wayland
b. City/Town

37
c. Assessors Map/Plat Number

034
d. Parcel/Lot Number

Latitude and Longitude, if known: 42.341084Nd m s - 71.370828d m

A. General Information (cont.)

6. Property recorded at the Registry of Deeds for (attach additional information if more than one parcel):

Middlesex South	Certificate of Title: 89531
a. County	b. Certificate Number (if registered land)
n/a	n/a
c. Book	d. Page

7. Dates: a. Date Notice of Intent Filed | b. Date Public Hearing Closed | c. Date of Issuance

8. Final Approved Plans and Other Documents (attach additional plan or document references as needed):

a. Plan Title

b. Prepared By | c. Signed and Stamped by

d. Final Revision Date | e. Scale

f. Additional Plan or Document Title | g. Date

B. Findings

1. Findings pursuant to the Massachusetts Wetlands Protection Act:

Following the review of the above-referenced Notice of Intent and based on the information provided in this application and presented at the public hearing, this Commission finds that the areas in which work is proposed is significant to the following interests of the Wetlands Protection Act (the Act). Check all that apply:

a. ☐ Public Water Supply b. ☐ Land Containing Shellfish c. ☐ Prevention of Pollution

d. ☐ Private Water Supply e. ☐ Fisheries f. ☐ Protection of Wildlife Habitat

g. ☐ Groundwater Supply h. ☐ Storm Damage Prevention i. ☐ Flood Control

2. This Commission hereby finds the project, as proposed, is: (check one of the following boxes)

Approved subject to:

a. ☐ the following conditions which are necessary in accordance with the performance standards set forth in the wetlands regulations. This Commission orders that all work shall be performed in accordance with the Notice of Intent referenced above, the following General Conditions, and any other special conditions attached to this Order. To the extent that the following conditions modify or differ from the plans, specifications, or other proposals submitted with the Notice of Intent, these conditions shall control.

B. Findings (cont.)

Denied because:

b. ☐ the proposed work cannot be conditioned to meet the performance standards set forth in the wetland regulations. Therefore, work on this project may not go forward unless and until a new Notice of Intent is submitted which provides measures which are adequate to protect the interests of the Act, and a final Order of Conditions is issued. **A description of the performance standards which the proposed work cannot meet is attached to this Order.**

c. ☐ the information submitted by the applicant is not sufficient to describe the site, the work, or the effect of the work on the interests identified in the Wetlands Protection Act. Therefore, work on this project may not go forward unless and until a revised Notice of Intent is submitted which provides sufficient information and includes measures which are adequate to protect the Act's interests, and a final Order of Conditions is issued. **A description of the specific information which is lacking and why it is necessary is attached to this Order as per 310 CMR 10.05(6)(c).**

3. ☐ Buffer Zone Impacts: Shortest distance between limit of project disturbance and the wetland resource area specified in 310 CMR 10.02(1)(a) _____ a. linear feet

Inland Resource Area Impacts: Check all that apply below. (For Approvals Only)

Resource Area	Proposed Alteration	Permitted Alteration	Proposed Replacement	Permitted Replacement
4. ☐ Bank	a. linear feet	b. linear feet	c. linear feet	d. linear feet
5. ☐ Bordering Vegetated Wetland	a. square feet	b. square feet	c. square feet	d. square feet
6. ☐ Land Under Waterbodies and Waterways	a. square feet	b. square feet	c. square feet	d. square feet
	e. c/y dredged	f. c/y dredged		
7. ☒ Bordering Land Subject to Flooding	75,660 a. square feet	b. square feet	75,660 c. square feet	d. square feet
Cubic Feet Flood Storage	None e. cubic feet	f. cubic feet	None g. cubic feet	h. cubic feet
8. ☐ Isolated Land Subject to Flooding	a. square feet	b. square feet		
Cubic Feet Flood Storage	c. cubic feet	d. cubic feet	e. cubic feet	f. cubic feet
9. ☒ Riverfront Area	105, 100 a. total sq. feet	b. total sq. feet		
Sq ft within 100 ft	5, 600+/- c. square feet	d. square feet	e. square feet	f. square feet
Sq ft between 100-200 ft	99,500+/- g. square feet	h. square feet	i. square feet	j. square feet

B. Findings (cont.)

Coastal Resource Area Impacts: Check all that apply below. (For Approvals Only)

	Proposed Alteration	Permitted Alteration	Proposed Replacement	Permitted Replacement
10. ☐ Designated Port Areas	Indicate size under Land Under the Ocean, below			
11. ☐ Land Under the Ocean	a. square feet	b. square feet		
	c. c/y dredged	d. c/y dredged		
12. ☐ Barrier Beaches	Indicate size under Coastal Beaches and/or Coastal Dunes below			
13. ☐ Coastal Beaches	a. square feet	b. square feet	c. nourishment cu yd	d. nourishment cu yd
14. ☐ Coastal Dunes	a. square feet	b. square feet	c. nourishment cu yd	d. nourishment cu yd
15. ☐ Coastal Banks	a. linear feet	b. linear feet		
16. ☐ Rocky Intertidal Shores	a. square feet	b. square feet		
17. ☐ Salt Marshes	a. square feet	b. square feet	c. square feet	d. square feet
18. ☐ Land Under Salt Ponds	a. square feet	b. square feet		
	c. c/y dredged	d. c/y dredged		
19. ☐ Land Containing Shellfish	a. square feet	b. square feet	c. square feet	d. square feet
20. ☐ Fish Runs	Indicate size under Coastal Banks, Inland Bank, Land Under the Ocean, and/or inland Land Under Waterbodies and Waterways, above			
	a. c/y dredged	b. c/y dredged		
21. ☐ Land Subject to Coastal Storm Flowage	a. square feet	b. square feet		

B. Findings (cont.)

* **#22.** If the project is for the purpose of restoring or enhancing a wetland resource area in addition to the square footage that has been entered in Section B.5.c (BVW) or B.17.c (Salt Marsh) above, please enter the additional amount here.

22. ☐ Restoration/Enhancement *:

a. square feet of BVW | b. square feet of salt marsh

23. ☐ Stream Crossing(s):

a. number of new stream crossings | b. number of replacement stream crossings

C. General Conditions Under Massachusetts Wetlands Protection Act

The following conditions are only applicable to Approved projects.

1. Failure to comply with all conditions stated herein, and with all related statutes and other regulatory measures, shall be deemed cause to revoke or modify this Order.
2. The Order does not grant any property rights or any exclusive privileges; it does not authorize any injury to private property or invasion of private rights.
3. This Order does not relieve the permittee or any other person of the necessity of complying with all other applicable federal, state, or local statutes, ordinances, bylaws, or regulations.
4. The work authorized hereunder shall be completed within three years from the date of this Order unless either of the following apply:
   a. the work is a maintenance dredging project as provided for in the Act; or
   b. the time for completion has been extended to a specified date more than three years, but less than five years, from the date of issuance. If this Order is intended to be valid for more than three years, the extension date and the special circumstances warranting the extended time period are set forth as a special condition in this Order.
5. This Order may be extended by the issuing authority for one or more periods of up to three years each upon application to the issuing authority at least 30 days prior to the expiration date of the Order.
6. If this Order constitutes an Amended Order of Conditions, this Amended Order of Conditions does not extend the issuance date of the original Final Order of Conditions and the Order will expire on unless extended in writing by the Department.
7. Any fill used in connection with this project shall be clean fill. Any fill shall contain no trash, refuse, rubbish, or debris, including but not limited to lumber, bricks, plaster, wire, lath, paper, cardboard, pipe, tires, ashes, refrigerators, motor vehicles, or parts of any of the foregoing.
8. This Order is not final until all administrative appeal periods from this Order have elapsed, or if such an appeal has been taken, until all proceedings before the Department have been completed.

C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

9. No work shall be undertaken until the Order has become final and then has been recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land upon which the proposed work is to be done. In the case of the registered land, the Final Order shall also be noted on the Land Court Certificate of Title of the owner of the land upon which the proposed work is done. The recording information shall be submitted to the Conservation Commission on the form at the end of this Order, which form must be stamped by the Registry of Deeds, prior to the commencement of work.

10. A sign shall be displayed at the site not less then two square feet or more than three square feet in size bearing the words,

    "Massachusetts Department of Environmental Protection" [or, "MassDEP"]

    "File Number 322-734 "

11. Where the Department of Environmental Protection is requested to issue a Superseding Order, the Conservation Commission shall be a party to all agency proceedings and hearings before MassDEP.

12. Upon completion of the work described herein, the applicant shall submit a Request for Certificate of Compliance (WPA Form 8A) to the Conservation Commission.

13. The work shall conform to the plans and special conditions referenced in this order.

14. Any change to the plans identified in Condition #13 above shall require the applicant to inquire of the Conservation Commission in writing whether the change is significant enough to require the filing of a new Notice of Intent.

15. The Agent or members of the Conservation Commission and the Department of Environmental Protection shall have the right to enter and inspect the area subject to this Order at reasonable hours to evaluate compliance with the conditions stated in this Order, and may require the submittal of any data deemed necessary by the Conservation Commission or Department for that evaluation.

16. This Order of Conditions shall apply to any successor in interest or successor in control of the property subject to this Order and to any contractor or other person performing work conditioned by this Order.

17. Prior to the start of work, and if the project involves work adjacent to a Bordering Vegetated Wetland, the boundary of the wetland in the vicinity of the proposed work area shall be marked by wooden stakes or flagging. Once in place, the wetland boundary markers shall be maintained until a Certificate of Compliance has been issued by the Conservation Commission.

C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

18. All sedimentation barriers shall be maintained in good repair until all disturbed areas have been fully stabilized with vegetation or other means. At no time shall sediments be deposited in a wetland or water body. During construction, the applicant or his/her designee shall inspect the erosion controls on a daily basis and shall remove accumulated sediments as needed. The applicant shall immediately control any erosion problems that occur at the site and shall also immediately notify the Conservation Commission, which reserves the right to require additional erosion and/or damage prevention controls it may deem necessary. Sedimentation barriers shall serve as the limit of work unless another limit of work line has been approved by this Order.

NOTICE OF STORMWATER CONTROL AND MAINTENANCE REQUIREMENTS

19. **The work associated with this Order (the "Project") is** (1) ☐ **is not** (2) ☐ **subject to the Massachusetts Stormwater Standards. If the work is subject to the Stormwater Standards, then the project is subject to the following conditions:**

a) All work, including site preparation, land disturbance, construction and redevelopment, shall be implemented in accordance with the construction period pollution prevention and erosion and sedimentation control plan and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollution Discharge Elimination System Construction General Permit as required by Stormwater Condition 8. Construction period erosion, sedimentation and pollution control measures and best management practices (BMPs) shall remain in place until the site is fully stabilized.

b) No stormwater runoff may be discharged to the post-construction stormwater BMPs unless and until a Registered Professional Engineer provides a Certification that:
i. all construction period BMPs have been removed or will be removed by a date certain specified in the Certification. For any construction period BMPs intended to be converted to post construction operation for stormwater attenuation, recharge, and/or treatment, the conversion is allowed by the MassDEP Stormwater Handbook BMP specifications and that the BMP has been properly cleaned or prepared for post construction operation, including removal of all construction period sediment trapped in inlet and outlet control structures;
ii. as-built final construction BMP plans are included, signed and stamped by a Registered Professional Engineer, certifying the site is fully stabilized;
iii. any illicit discharges to the stormwater management system have been removed, as per the requirements of Stormwater Standard 10;
iv. all post-construction stormwater BMPs are installed in accordance with the plans (including all planting plans) approved by the issuing authority, and have been inspected to ensure that they are not damaged and that they are in proper working condition;
v. any vegetation associated with post-construction BMPs is suitably established to withstand erosion.

C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

c) The landowner is responsible for BMP maintenance until the issuing authority is notified that another party has legally assumed responsibility for BMP maintenance. Prior to requesting a Certificate of Compliance, or Partial Certificate of Compliance, the responsible party (defined in General Condition 18(e)) shall execute and submit to the issuing authority an Operation and Maintenance Compliance Statement ("O&M Statement) for the Stormwater BMPs identifying the party responsible for implementing the stormwater BMP Operation and Maintenance Plan ("O&M Plan") and certifying the following: *i.*) the O&M Plan is complete and will be implemented upon receipt of the Certificate of Compliance, and *ii.*) the future responsible parties shall be notified in writing of their ongoing legal responsibility to operate and maintain the stormwater management BMPs and implement the Stormwater Pollution Prevention Plan.

d) Post-construction pollution prevention and source control shall be implemented in accordance with the long-term pollution prevention plan section of the approved Stormwater Report and, if applicable, the Stormwater Pollution Prevention Plan required by the National Pollution Discharge Elimination System Multi-Sector General Permit.

e) Unless and until another party accepts responsibility, the landowner, or owner of any drainage easement, assumes responsibility for maintaining each BMP. To overcome this presumption, the landowner of the property must submit to the issuing authority a legally binding agreement of record, acceptable to the issuing authority, evidencing that another entity has accepted responsibility for maintaining the BMP, and that the proposed responsible party shall be treated as a permittee for purposes of implementing the requirements of Conditions 18(f) through 18(k) with respect to that BMP. Any failure of the proposed responsible party to implement the requirements of Conditions 18(f) through 18(k) with respect to that BMP shall be a violation of the Order of Conditions or Certificate of Compliance. In the case of stormwater BMPs that are serving more than one lot, the legally binding agreement shall also identify the lots that will be serviced by the stormwater BMPs. A plan and easement deed that grants the responsible party access to perform the required operation and maintenance must be submitted along with the legally binding agreement.

f) The responsible party shall operate and maintain all stormwater BMPs in accordance with the design plans, the O&M Plan, and the requirements of the Massachusetts Stormwater Handbook.

C. General Conditions Under Massachusetts Wetlands Protection Act (cont.)

g) The responsible party shall:
1. Maintain an operation and maintenance log for the last three (3) consecutive calendar years of inspections, repairs, maintenance and/or replacement of the stormwater management system or any part thereof, and disposal (for disposal the log shall indicate the type of material and the disposal location);
2. Make the maintenance log available to MassDEP and the Conservation Commission ("Commission") upon request; and
3. Allow members and agents of the MassDEP and the Commission to enter and inspect the site to evaluate and ensure that the responsible party is in compliance with the requirements for each BMP established in the O&M Plan approved by the issuing authority.

h) All sediment or other contaminants removed from stormwater BMPs shall be disposed of in accordance with all applicable federal, state, and local laws and regulations.

i) Illicit discharges to the stormwater management system as defined in 310 CMR 10.04 are prohibited.

j) The stormwater management system approved in the Order of Conditions shall not be changed without the prior written approval of the issuing authority.

k) Areas designated as qualifying pervious areas for the purpose of the Low Impact Site Design Credit (as defined in the MassDEP Stormwater Handbook, Volume 3, Chapter 1, Low Impact Development Site Design Credits) shall not be altered without the prior written approval of the issuing authority.

l) Access for maintenance, repair, and/or replacement of BMPs shall not be withheld. Any fencing constructed around stormwater BMPs shall include access gates and shall be at least six inches above grade to allow for wildlife passage.

Special Conditions (if you need more space for additional conditions, please attach a text document):

D. Findings Under Municipal Wetlands Bylaw or Ordinance

1. Is a municipal wetlands bylaw or ordinance applicable? ☐ Yes ☐ No
2. The Wayland (Conservation Commission) hereby finds (check one that applies):
   a. ☐ that the proposed work cannot be conditioned to meet the standards set forth in a municipal ordinance or bylaw, specifically:

      1. Municipal Ordinance or Bylaw _____ 2. Citation _____

      Therefore, work on this project may not go forward unless and until a revised Notice of Intent is submitted which provides measures which are adequate to meet these standards, and a final Order of Conditions is issued.

   b. ☐ that the following additional conditions are necessary to comply with a municipal ordinance or bylaw:

      1. Municipal Ordinance or Bylaw _____ 2. Citation _____

3. The Commission orders that all work shall be performed in accordance with the following conditions and with the Notice of Intent referenced above. To the extent that the following conditions modify or differ from the plans, specifications, or other proposals submitted with the Notice of Intent, the conditions shall control.
   The special conditions relating to municipal ordinance or bylaw are as follows (if you need more space for additional conditions, attach a text document):

Massachusetts Department of Environmental Protection
Bureau of Resource Protection - Wetlands
WPA Form 5 – Order of Conditions
Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Provided by MassDEP:
322-734
MassDEP File #

eDEP Transaction #

City/Town

E. Signatures

This Order is valid for three years, unless otherwise specified as a special condition pursuant to General Conditions #4, from the date of issuance.

5/24/10
1. Date of Issuance

Please indicate the number of members who will sign this form.
This Order must be signed by a majority of the Conservation Commission.

3
2. Number of Signers

The Order must be mailed by certified mail (return receipt requested) or hand delivered to the applicant. A copy also must be mailed or hand delivered at the same time to the appropriate Department of Environmental Protection Regional Office, if not filing electronically, and the property owner, if different from applicant.

Signatures:

☐ by hand delivery on

Date

☐ by certified mail, return receipt requested, on

Date

F. Appeals

The applicant, the owner, any person aggrieved by this Order, any owner of land abutting the land subject to this Order, or any ten residents of the city or town in which such land is located, are hereby notified of their right to request the appropriate MassDEP Regional Office to issue a Superseding Order of Conditions. The request must be made by certified mail or hand delivery to the Department, with the appropriate filing fee and a completed Request of Departmental Action Fee Transmittal Form, as provided in 310 CMR 10.03(7) within ten business days from the date of issuance of this Order. A copy of the request shall at the same time be sent by certified mail or hand delivery to the Conservation Commission and to the applicant, if he/she is not the appellant.

Any appellants seeking to appeal the Department's Superseding Order associated with this appeal will be required to demonstrate prior participation in the review of this project. Previous participation in the permit proceeding means the submission of written information to the Conservation Commission prior to the close of the public hearing, requesting a Superseding Order, or providing written information to the Department prior to issuance of a Superseding Order.

The request shall state clearly and concisely the objections to the Order which is being appealed and how the Order does not contribute to the protection of the interests identified in the Massachusetts Wetlands Protection Act (M.G.L. c. 131, § 40), and is inconsistent with the wetlands regulations (310 CMR 10.00). To the extent that the Order is based on a municipal ordinance or bylaw, and not on the Massachusetts Wetlands Protection Act or regulations, the Department has no appellate jurisdiction.

G. Recording Information

This Order of Conditions must be recorded in the Registry of Deeds or the Land Court for the district in which the land is located, within the chain of title of the affected property. In the case of recorded land, the Final Order shall also be noted in the Registry's Grantor Index under the name of the owner of the land subject to the Order. In the case of registered land, this Order shall also be noted on the Land Court Certificate of Title of the owner of the land subject to the Order of Conditions. The recording information on this page shall be submitted to the Conservation Commission listed below.

Wayland
Conservation Commission

Detach on dotted line, have stamped by the Registry of Deeds and submit to the Conservation Commission.

To:

Wayland
Conservation Commission

Please be advised that the Order of Conditions for the Project at:

260 Old Connecticut Path
Project Location

322-734
MassDEP File Number

Has been recorded at the Registry of Deeds of:

Middlesex South
County

Book

Page

for: Gary Burton
Property Owner

and has been noted in the chain of title of the affected property in:

Book

Page

In accordance with the Order of Conditions issued on:

Date

If recorded land, the instrument number identifying this transaction is:

Instrument Number

If registered land, the document number identifying this transaction is:

Document Number

Signature of Applicant

Project Description: A Notice of Intent filed pursuant to the Wetlands Protection Act ("MGL Chap. 131 Sec. 40") for the proposed construction of two school buildings and associated site construction at the existing Wayland High School property, 260 Old Connecticut Path, Wayland. The proposed work includes the restoration of 107,000 +/- square feet of riverfront area. The property is shown on Wayland's Assessor's Map 37, Parcel 033. Portions of the work are within the 100-year floodplain, riverfront area, and buffer zone to wetlands.

Plan Reference: **Sheet C0.10,** Wayland High School, "Existing Conditions Plan", NOI Permitting Set, Nitsch Engineering, HMFH, Architects, Aaron A. Gallacher, P.E., 05/20/2010; **Sheet C0.20,** Wayland High School, "SWPPP Phase 1&2", NOI Permitting Set, Nitsch Engineering, HMFH, Architects, Aaron A. Gallacher, P.E., 05/20/2010; **Sheet C0.30,** Wayland High School, "SWPPP Phase 3", NOI Permitting Set, Nitsch Engineering, HMFH, Architects, Aaron A. Gallacher, P.E., 05/20/2010; **Sheet C0.40,** Wayland High School, "SWPPP Details", NOI Permitting Set, Nitsch Engineering, HMFH, Architects, Aaron A. Gallacher, P.E., 05/20/2010 [Note: **Silt Sacks are required in all catch basins.**]; **Sheet C1.00,** Wayland High School, "Site Utility Plan", NOI Permitting Set, HMFH, Architects, Aaron A. Gallacher, P.E., 05/20/2010; **Sheet C2.20,** Wayland High School, "Site Drainage Details", NOI Permitting Set, HMFH, Architects, Aaron A. Gallacher, P.E., 05/20/2010; **Sheet C2.40,** Wayland High School, "BMP Details", NOI Permitting Set, HMFH, Architects, Aaron A. Gallacher, P.E., 05/20/2010; **Sheet C3.00,** Wayland High School, "Site Grading & Drainage Plan", NOI Permitting Set, HMFH, Architects, Aaron A. Gallacher, P.E., 05/20/2010; **Sheet C3.20,** Wayland High School, "Site Utility Plan", Scale 1"=20', NOI Permitting Set, HMFH, Architects, Aaron A. Gallacher, P.E., 05/20/2010; **Sheet C3.10,** Wayland High School, "Site Utility Plan", Scale 1"=20', NOI Permitting Set, HMFH, Architects, Aaron A. Gallacher, P.E., 05/20/2010; **Sheet L1.1** , Wayland High School, "Materials Plan", 20% Construction Documents, 05/14/2010, CISIS, HMFH Archictects, Deneen A. Crosby, R.L.A.; **Sheet L3.1** , Wayland High School, "Planting Plan", 20% Construction Documents, 05/14/2010, CISIS, HMFH Archictects, Deneen A. Crosby, R.L.A.; **Sheet L4.1** , Wayland High School, "Materials Plan", 20% Construction Documents, 05/14/2010, CISIS, HMFH Archictects, Deneen A. Crosby, R.L.A.; **Sheet L4.2** , Wayland High School, "Site Details: Planting", 20% Construction Documents, 05/14/2010, CISIS, HMFH Archictects, Deneen A. Crosby, R.L.A.; **Sheet L4.3** , Wayland High School, "Site Details: Site Furniture", 20% Construction Documents, 05/14/2010, CISIS, HMFH Archictects, Deneen A. Crosby, R.L.A.; **Sheet L4.4** , Wayland High School, "Site Details: Walls and Fencing", 20% Construction Documents, 05/14/2010, CISIS, HMFH Archictects, Deneen A. Crosby, R.L.A.; **Sheet L4.5** , Wayland High School, "Enlargement Plan", 20% Construction Documents, 05/14/2010, CISIS, HMFH Archictects, Deneen A. Crosby, R.L.A.; and **Sheet L4.7** , Wayland High School, "Rain Garden Enlargement Plan", 20% Construction Documents, 05/14/2010, CISIS, HMFH Archictects, Deneen A. Crosby, R.L.A.

Decision: The Conservation Commission approves the project as conditioned herein based upon the findings listed in this attachment. The Commission has imposed **65** conditions listed in this decision to protect the resource areas and interests of the Wetlands Protection Act. The Conservation Commission finds that the conditions are necessary, in accordance with Performance Standards set forth in the Wetlands Regulations (310 CMR 10.00) to protect those interests noted in the findings. The Commission orders that all work shall be performed in accordance with said conditions and with the Notice of Intent referenced above. **To the extent that the following conditions modify or differ from the plans, specifications or other proposals submitted with the Notice of Intent, the**

conditions shall control. There is a separate Bylaw Permit issued pursuant to Wayland's Wetlands and Water Resources Bylaw "Chapter 194".

Conditions for Approval:

Conditions 1 – 17 as noted on WPA Form 5 "Order of Conditions"; Pages 1 - 4
The applicant is urged to review these conditions.

12. **The work** shall conform to the plans referenced above **except as herein conditioned.**

Special Conditions Issued by the Wayland Conservation Commission pursuant to the Wetlands Protection Act and 310 CMR 10.00:

EFFECTIVE PRIOR TO ANY ALTERATION, EXCAVATION, OR CONSTRUCTION

18. **No work shall be undertaken within the areas subject to jurisdiction** until the original Order has been recorded at the Registry of Deeds (refer to Condition #8).

19. **No work shall be undertaken** until the Conservation Commission has received an affidavit from the applicant attesting to the completeness of the plans referenced in this decision and that these are the same plans that have been approved by any other Board and/or Department. If there is any discrepancy between the plans, it shall be outlined in this affidavit and reviewed by the Conservation Commission to determine the appropriate response to the differences.

20. This Order of Conditions shall apply to any successor in interest or successor in control of this property. The Conservation Commission shall be notified in writing, at the time of such transfer, or any transfer in title for all or part of the property that occurs prior to the issuance of the Certificate of Compliance. Prior to any transfer of title, the Order of Conditions shall be filed at the Registry of Deeds. A lack of such required written notification to the Conservation Commission shall delay the issuance of the Certificate of Compliance.

21. **All written submissions to the Conservation Commission shall include: a date the DEP File Number and the condition or conditions that the submission is intended to meet. Material that is not submitted with this information may not be properly filed. This may impact the issuance of a Certificate of Compliance.**

22. In the event the applicant believes that an item required in any condition has been provided to the Commission prior to the issuance of this Order, formal notice of the document, the date of the document and any other reference to the item shall be provided with a notation as to which condition the applicant believes the item satisfies.

23. **Prior to commencing any work,** the applicant shall submit to the Commission a construction schedule that clearly defines the restoration of riverfront area, the installation of the approved bmps, and construction bmps.

24. **Prior to commencing any work at the site,** the applicant shall give the Commission a written list of the names, addresses, business phone number and home phone number of both the project supervisor who will be responsible for ensuring on-site compliance with this Order and his or her alternate.

25. **Prior to commencing any work at the site within the buffer zone, riverfront, and/or floodplain** the applicant shall submit to the Commission evidence that the Wayland Board of Health has approved the plans described in this decision in Condition #12 or that no Board of Health approval is required.

26. **Prior to the commencement of any activity on the site** the Conservation Commission shall receive written notice by the applicant or a duly authorized representative not less than two nor more than five business days before this work commences. Failure to comply with this condition shall result in a directive to cease any activity. In the event that work ceases on the site for a period of time greater than five days, this condition shall again apply prior to recommencing work on the site. All conditions requiring additional information prior to commencing work shall be met prior to submitting this notice. E-mail shall not be considered written notice.

27. **Prior to commencing any work,** the location of the sediment barriers shall be defined by a P.L.S. or P.E. who thereafter shall submit a stamped written statement to the Conservation Commission attesting to the correct layout of the sediment barriers and work within the buffer zone.

28. A sediment barrier **consisting of filter fencing** and staked hay bales shall be installed as shown on the plan referenced in this decision and consistent with this decision. The location of this barrier shall be located as shown on the approved plan and as conditioned herein. In addition, a bright colored plastic fence shall be installed to delineate the limit of disturbance. This barrier shall delineate the limit of disturbance and no alteration of soils or vegetation shall take place beyond this line. This barrier shall remain in place until disturbed areas have been permanently stabilized (with vegetation or other appropriate means) sufficiently to prevent erosion. ***The Conservation Commission may elect to consider an alternative sediment barrier providing the specifications have been submitted to the Commission for formal action at a Commission meeting. When seeking the use of an alternative barrier, the supporting documentation shall include where the product has been employed within the Commonwealth of Massachusetts. The use of an alternative barrier shall not be presumed to be permissible unless formally approved by the Conservation Commission.***

29. The installation of sediment barriers should be done by hand or with equipment designed to minimize the amount of land disturbed. **Heavy equipment shall not be used to install the sediment barriers and the trenches shall not be more than 4"-6" deep and not more than 3" wide.** There shall be a construction barrier of plastic fence that is offset, on the uplands side of the sediment barriers, not less than two (2') feet.

30. **Prior to commencing any work,** the applicant shall provide, in writing, the name of the person responsible for all on-site erosion controls, the name of the person who shall make the inspection of the sediment barriers and the name of any alternate.

31. A copy of this Order shall be included in any bid document.

32. A copy of this Order shall be provided to the project supervisor and shall be available on the site at all times during construction.

33. **Prior to commencing any work at the site,** the Conservation Commission or Conservation Administrator shall inspect the sediment barriers once they have been installed to ensure that the barriers have been properly installed.

34. Any catch basins on or adjacent to and down gradient from the site shall be protected by Silt Sacks while construction is on going at the property. Silt Sacks shall be maintained and regularly cleaned of sediments until all areas associated with the work permitted by this Order have been permanently stabilized and the Conservation Commission has formally approved their removal. **They shall be monitored at least weekly and after major (.5" in 24 hrs) storm events to ensure proper function and removed immediately after construction has been completed.**

35. **Tracking onto paved surfaces adjacent to the site shall be avoided.** Paved surfaces shall be swept daily as needed for any tracking from the on-site activities. Any evidence of failure to comply with this condition may result in the issuance of a stop work order. At the end of each workday, the applicant shall mechanically sweep or manually sweep sediments from the adjacent paved surfaces (i.e. the High School parking lot and Old Connecticut Path), unless tracking and sediment is not evident on the streets.

36. The use of native plant species is required within the buffer areas and restored riverfront area. Landscaping within the buffer zone shall be reviewed by the Conservation Commission and subject to their review and approval or approval with modifications prior to being planted. Additional planting in the riverfront area consistent with the replacement requirements of the Conservation Commission is encouraged.

37. There shall be a preconstruction conference on the site between the contractor who will do the work, the project engineer (at the discretion of the applicant) and Conservation Administrator or agent of the Commission. The purpose of the pre-construction meeting is to allow for final inspection of the site prior to construction and to answer any questions regarding these conditions. No change in the conditions or plan is permitted. All parties shall be provided with a minimum of 48 hours (excluding weekends and holidays) notice of the pre-construction meeting.

38. There shall be no stockpiling of soil or other materials within 100 feet of any pond, stream or wetland area except in areas designated on the plan that have been approved by the Conservation Commission in advance. Any material temporarily stockpiled overnight shall be covered with plastic or canvas or stabilized in a manner acceptable to the Commission to prevent soil from entering any resource area. Stockpiles shall also be contained with hay bales around the perimeter of the pile. Excess material is to be removed from the site.

39. The applicant shall take photographs of the site before and after work regulated by this Order is conducted. Preconstruction photographs shall be submitted before that work commences on the site. Post construction photographs shall be submitted to the Conservation Commission at the conclusion of the project. The photographs shall be taken to show all of the areas of jurisdiction on the site.

40. **There is a separate Bylaw permit for the work permitted by this Order of Conditions issued pursuant to Wayland's Wetlands and Water Resources Bylaw Chapter 194. That permit contains conditions not listed in this decision including a requirement for regular professional inspections of the site and the submission of timely reports NO WORK WITHIN THE BUFFER ZONE SHALL START UNTIL THE CHAPTER 194 PERMIT HAS BEEN ISSUED AND BECOME EFFECTIVE.**

Special Conditions Effective upon Commencement of Alteration, Excavation or Construction (Issued by the Wayland Conservation Commission):

41. No permanent drainage structure shall be used as a temporary sedimentation basin or for erosion control during construction.

42. Grading shall conform to the plans referenced in this decision except as conditioned herein. Excess material shall be removed from the site and legally disposed of during construction. Documentation that fill has been legally disposed of shall be provided with the request for a Certificate of Compliance. This grading shall be reviewed by the Commission and may require a separate application. There shall be no increase in the grade within the 100-year floodplain. The as-built plan shall clearly depict spot elevations and grades sufficient to determine this requirement has been met.

43. Conservation approval does not alter the need for the work to be conducted in compliance with State or Federal regulations and permitting applicable to construction dewatering. See Mass DEP requirements for Permit #BRP WM10 including submission to EPA for coverage under the Federal General Permit for Construction Dewatering. **Any dewatering shall be reviewed and approved or approved with modifications, in advance, by the Conservation Commission.** http://mass.gov/dep/water/approvals/wm10.pdf Dewatering may require an NPDES permit – if one is required the Commission shall be provided a copy of applicable documents.

44. Equipment shall not be refueled or serviced within 100 feet of the bordering vegetated wetlands or within bordering land subject to flooding. The Commission may permit, on a restricted basis, some refueling within the buffer zone if a spill containment kit is provided on the site at all times.

45. Disturbed ground within those areas subject to this Order that cannot be permanently stabilized within 30 days shall be stabilized by temporary measures, such as jute netting, hydroseeding or other methods accepted in advance by the Commission. This shall be specifically addressed in the required site inspection reports.

46. All disturbed or exposed areas shall be brought to final finished grade and stabilized with loam and seed. Permanent seeding shall conform to the specifications in "Massachusetts Erosion and Sediment Control Guidelines for Urban and Suburban Areas", prepared by Franklin, Hampden, Hampshire Conservation Districts, Northampton, MA, March 1997; pages 175 – 183, except as modified by these conditions. This shall be specifically addressed in the site inspection reports required by this Order.

47. During construction any debris, which falls into the stream or wetland, shall be removed immediately by hand. All construction debris shall be properly disposed of off the site. Documentation that this condition has been met shall be submitted with, or before, seeking a Certificate of Compliance.

48. There shall be no more than a total of 50 gallons of flammable or combustible chemicals relating to this project stored on the site at any one time. No routine servicing of vehicles used for this project shall be permitted on the site. The Conservation Commission shall be notified prior to initiating any emergency repair on the site.

49. A supply of straw bales (seed-free), silt fence, and organic filter fabric shall be stockpiled for emergency use only (or alternative sediment barrier if approved by the Conservation Commission). The applicant shall immediately control any erosion/sedimentation problems that occur on the site and shall also immediately notify the Commission of any corrective action taken at the site. Any additional erosion/sedimentation controls found to be necessary by either the applicant or the Commission during construction shall be implemented by the applicant with the approval of the Commission.

50. The three existing outlets to the stream and wetlands shall be removed. No Certificate of Compliance shall be issued if these are not removed.

51. No debris, refuse or other materials, including but not limited to landscaping debris, leaves, shrubs and tree trimmings, logs, bricks, stone or trash shall be deposited within the vegetated wetland, riverfront area, or within 100 feet of the vegetated wetland. ***This condition shall remain in perpetuity and shall be recorded as such on the Certificate of Compliance as well as included in the revised Stormwater O&M Plan.***

52. The rip rap has been specified on the plans. The median stone size shall be 8" and there shall be no stone smaller than 6". The minimum stone size shall be 1.5 times the medium stone size by weight. This must be addressed in the request for a Certificate of Compliance.

53. This decision is intended to comply with the provisions of 310 CMR 40.0032(3) in avoiding the degradation of property by the introduction of oil or hazardous materials at concentrations that are significantly higher than those existing at the project site whether or not those concentrations are reportable under 310 CMR 40.0000. The applicant shall provide copies of documentation for shipments of soil material being received as clean fill at the project site. The documentation shall identify the address of the specific property that was the source of the soil material, the name and mailing address of that property owner and provide a certification by the operator/owner of that source property that there is no known disposal site, as defined in 310 CMR 40.0000, upon that source property. In lieu of the certification only, the applicant may also provide analytical data for contaminants listed in Table 1 of DEP Policy#COMM-97-001 by representative sampling of the fill material delivered to the project site. At the discretion of the Commission, based upon the observations of fill material delivered to the project site, the applicant may be required at their own expense to conduct sampling of fill and/or existing soils and analyze for contaminants listed in Table 1 of DEP Policy#COMM-97-001 by representative sampling of the soil materials and the frequency of sampling shall be equal to or greater than one sample per 500 cubic yards.

54. **No underground sprinkler systems shall be installed within the riverfront area, 100-foot buffer zone or directed toward the buffer zone.** ***This Condition shall remain in force permanently and be recorded on the Certificate of Compliance.***

55. No de-icing chemicals shall be used on any paved surface located within the 100-foot buffer zone, except with the prior written permission of the Commission. The Commission will consider the use of calcium chloride. ***This Condition shall remain in force permanently and shall be recorded as such on the Certificate of Compliance as well as included in the revised O&M Plan .***

56. There shall be no sand used for de-icing on the porous pavement walkways.

57. **Upon completion of the project, at least three (3) signs shall be posted and maintained noting the restriction of the use of de-icing chemicals in the paved areas and that the area is environmentally sensitive.**

58. No pesticides, herbicides or insecticides shall be used on the lawns or grounds located within the riverfront area and 100-foot buffer zone, except with the prior written permission of the Commission**. Signs shall be posted noting this restriction.** ***This Condition shall remain in force permanently and shall be recorded as such on the Certificate of Compliance as well as included in the O&M Plan .***

59. The restored riverfront is to be a meadow. A revised O&M shall clearly specify limitation on mowing of this area to not more than four times a year.

60. By acceptance of this Order of Conditions and commencement of work authorized herein, the applicant, owner and their respective agents, assign and successors in title agree to indemnify, defend and hold harmless the town for any damages that might occur on or off the subject property or any legal claims which may be attributable to any alterations undertaken or construction performed on the subject property pursuant to this Order of Conditions. Issuance of this Order does not in any way imply or certify that the subject property or downstream or adjacent properties will not be subject to flooding, storm damage or any other form of water damage that might result from alterations undertaken or construction performed on the subject property pursuant to this Order of Conditions.

61. Documentation shall be provided when the Certificate of Compliance is requested to demonstrate that any excess excavated material was properly disposed of during construction.

62. **The Certificate of Compliance, when issued, shall specifically note the O&M Plan for the requirement to inspect and replace the coir logs as well as the continuing need to monitor and maintain this system.**

Special Conditions Taking Effect <u>after Completion of the Project</u> (Issued by the Wayland Conservation Commission):

63. The Conservation Commission and/or Conservation Administrator may require the removal and dispersal of the erosion controls after the site has been fully stabilized to their satisfaction. The sediment barriers shall be removed upon the permanent stabilization of the site before the Certificate of Compliance is requested.

64. The applicant shall use [WPA Form 8A] to request a Certificate of Compliance and shall submit the following items with his request:

a) The Certificate of Compliance shall be submitted with a **detailed narrative** (original and 8 copies) prepared by a Professional Engineer or Professional Land Surveyor registered in the Commonwealth of Massachusetts, which lists each condition and how the condition has been met or detailing the lack of compliance, shall be submitted with a request for a Certificate of Compliance. This shall include the date any required material was submitted to the Commission. This narrative shall ***specifically address each condition*** and certify compliance with the approved plans referenced above and this Order of Conditions and setting forth any deviation/s that exist with a note as to how it/they may be corrected. **This request shall be submitted not later than 180 calendar days prior to the expiration of this Order.** Work that is not complete shall be detailed in a schedule of planned completion dates prior to expiration of the Order with a certification to the commitment of resources by an authorized official representative of the applicant to complete the work prior to expiration of the Order. The request for a Certificate of Compliance shall specifically address the installation of the drainage mitigation.

b) Two sets of as-built site plans shall be prepared by a registered land surveyor or registered professional engineer showing the wetland resource areas, grades, utilities, building footprint and landscaping. These plans shall include the date/s of fieldwork.

c) A copy of the as built shall be submitted on a computer disk in AutoCAD format dxf, dwg or may be e-mailed to the Town Surveyor at aberry@wayland.ma.us (if this is not possible please contact the Commission).

65. The work authorized hereunder shall be completed within three years from the date of this Order except as herein conditioned. A request for an Extension shall be filed with the Conservation Commission not less than thirty days prior to the expiration date of this Order. If this Order is intended to be valid for more than three years, the extension date and the special circumstances warranting the extended time period are set forth as a special condition in this Order.

This Order expires on May 28, 2013
If necessary, an extension should be filed before April 10, 2012.
The request for a Certificate of Compliance or evaluation of compliance specified in this Order should be submitted by December 1, 2012

Findings - MGL Chapter 131, Sec. 40:

a. The resource areas on the property where the activity proposed are: Bordering Vegetated Wetlands, bordering land subject to flooding, riverfront area, and bank.

b. Work is proposed in the riverfront area, bordering land subject to flooding, and buffer to bordering vegetated wetlands. These resource areas have values relating to: the protection of public and private water supplies; prevention of pollution, wildlife habitat, prevention of flooding, prevention of storm damage, protection of ground water and fisheries.

c. The public hearing was opened on February 25, 2010 and was continued with the permission of the applicant's representatives to March 18, April 6, April 29 and May 27, 2010 at which time the WPA hearing was closed.

d. The minutes of these meetings are considered part of the record for this decision.

e. It is the responsibility of the applicant to ensure that the Conservation Commission's record is complete, up to date and accurate.

f. Nothing in this decision is intended to permit an increase in rate or volume of surface water discharged from the applicant's property onto the property of others as a result of work being permitted by this decision.

g. The Commission discussed the amount of disturbance, defining the limits of construction, work within the riverfront area.

h. There is some further encroachment in the riverfront area of a portion of one of the two buildings. 107, 000 square feet of riverfront area that includes asphalt and parking is to be restored to a meadow with some native trees and shrubs.

i. There are at least three existing drainage outfalls discharging to the wetlands and stream. One is within a Zone I of the town's drinking water wells.

j. The outfall within the Zone 1 is to be removed from the Zone. All outfalls will be removed and new discharges will be not less than 30 feet from the stream or wetland as applicable.

k. Mitigation for the riverfront encroachment is critical to the Commission's approval of the project and it includes the use of LID development including some porous pavement, the restoration of riverfront area currently paved with bitiumious asphalt, the installation of bmps throughout the site such that the anticipated discharges from drain outlets will have 80% total suspended solids removal, and the removal of existing drainage outlets from the wetlands and stream.

l. DEP Storm water Policy considers infiltration to generally be desirable.

m. Infiltration is being proposed on the site.

n. The site qualified for redevelopment. However the construction is meeting the current DEP standards for stormwater treatment for new development.

o. Trees greater than 6" cut in the buffer zone must be replaced on a 2-1 ratio with trees not less than 2.5" in diameter at breast height (dbh). Trees greater than 12" dbh must be replaced on a 3:1 ratio by native trees not less than 2.5" dbh. Substitution of native shrubs, not less than 5 for each tree cut, may be considered on a case-by-case basis. No trees are to be cut to do the proposed work.

p. There are encroachments further into the riverfront area of the new building footprint.

q. Mitigation for the riverfront encroachment is critical to the Commission's approval of the project and it includes the use of LID development including some porous pavement, the restoration of riverfront area currently paved with bitiumious asphalt, the installation of bmps throughout the site such that the anticipated discharges from drain outlets will have 80% total suspended solids removal, and the removal of existing drainage outlets from the wetlands and stream.

r. The Commission found that the redevelopment of the riverfront area is in conformance with the provisions of 310 CMR 10.58 (5).

s. Sediment barriers need to be used to protect the wetlands from eroded soils resulting from the disturbance of the site.

t. Sediment barriers, as defined by this decision, are staked hay bales and sediment fence, unless otherwise specified. The Commission may consider an alternative barrier upon submission of the specifications and supporting documentation.

u. Sediment barriers need to be properly installed and maintained until any disturbed area within 100 feet of a resource area is permanently stabilized.

v. **Prior to commencing any work on the site**, the work area should be laid out by a qualified professional.

w. A growing season, for the purposes of interpreting this Order of Conditions, is considered April through October of any given year.

x. The Conservation Commission seeks an undisturbed buffer between the bordering vegetated wetlands and the project of not less than 30'.

y. Excavated material will be removed from the site and disposed of legally. The Commission will require documentation of compliance with this requirement.

z. Any fill material (rip rap) brought to the site must be clean fill. Documentation must be submitted with the request for a Certificate of Compliance including that the rip rap was the specified size.

aa. Other permits may include, but are not limited to; subdivision approval, building permits; street opening permits, Board of Health approvals, state and federal permits.

bb. The Commission's decision is not intended to permit a person or activity to infringe upon the property of others.

cc. The Commission asked about a Storm Water Pollution Prevention Plan (SWPP), which is required for construction on a site of more than one acre. The Commission will seek to have a copy of the SWPP before work starts on the site.

dd. Dewatering is a concern with the Conservation Commission. Dewatering may require an NPDES permit – if one is required the Commission must be provided a copy of applicable documents.

ee. The Commission generally requires the Order of Conditions and the Bylaw Permit be included in any construction bid documents.

ff. The Commission understood that some bidding had been done prior to the issuance of these decisions.

gg. During construction, precautions must be taken to avoid accidental spills of oils or hazardous materials in or near the wetlands or other resource areas. Precautions include limiting where equipment is serviced and refueled, having spill containment kits at the site and taking steps to avoid spills and accidents.

hh. The Conservation Commission must review changes in plans before they are implemented. A change may require the filing of a new Notice of Intent or an Amendment to the Order of Conditions either of which necessitate a public hearing.

ii. **The Conservation Commission may consider revoking this decision in the event the material presented during the hearing and/or on the plans is found to be different from material provided to another Board, Commission or official for work other than that described to the Conservation Commission during the public hearings.**