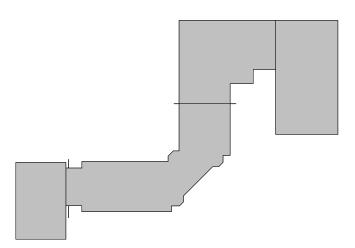


Revised By:

OVERALL FOUNDATION PLAN

SCALE: 1" = 20'-0"



Project Title:

Hinsdale School Alterations

15 Hinsdale Ave. Winsted, CT 06098 Michael Horton Associates Inc.

Consulting Structural Engineers
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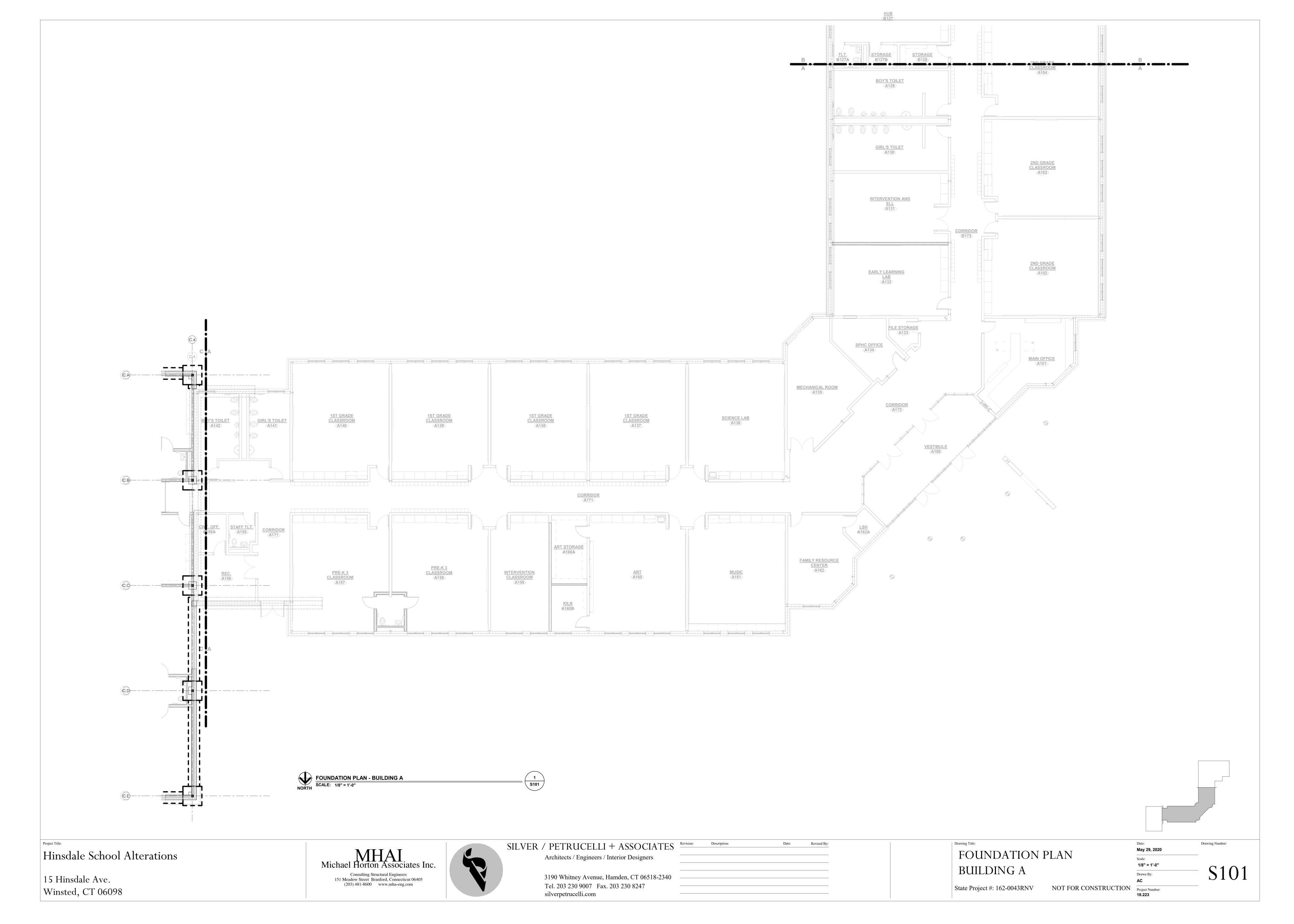
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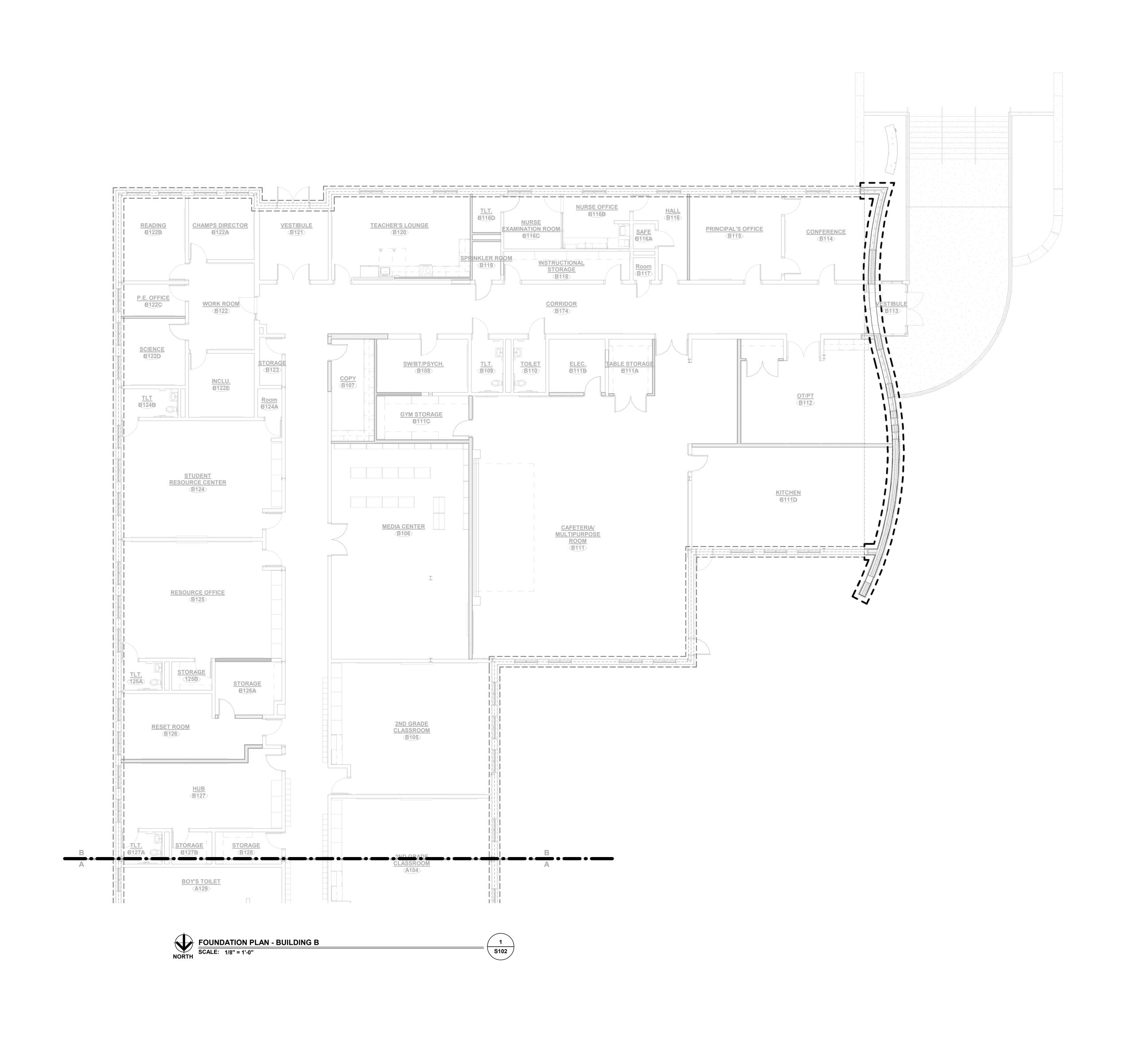
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S100

OVERALL FOUNDATION
PLAN

State Project #: 162-0043RNV





Project Title:

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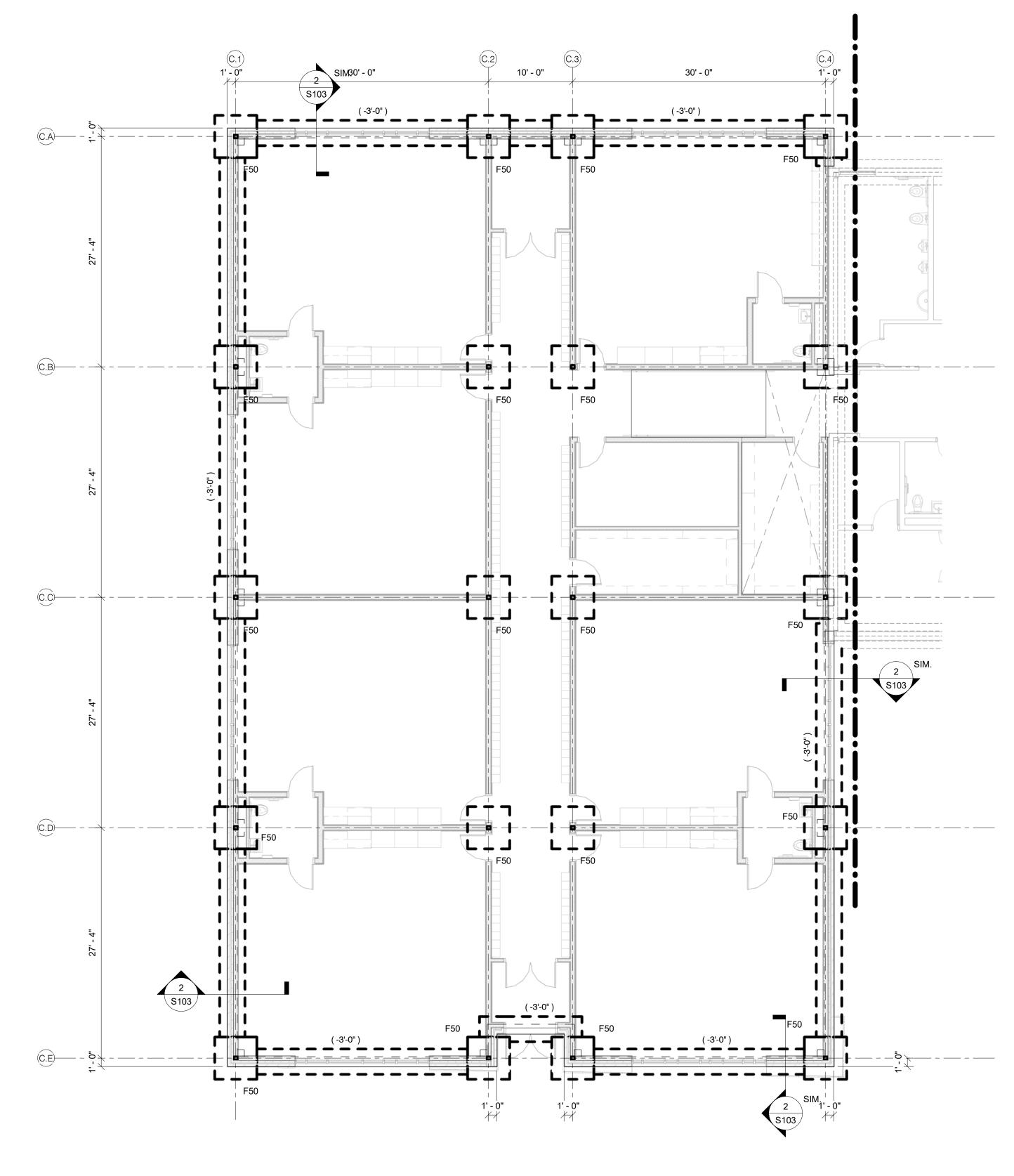
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FOUNDATION PLAN
-BUILDING B

State Project #: 162-0043RNV

 $\begin{array}{c} \text{Date:} & \text{Drawing Number:} \\ \hline \text{May 29, 2020} \\ \hline \text{Scale:} \\ \hline \text{1/8" = 1'-0"} \\ \hline \text{Drawn By:} \\ \textbf{AC} \\ \hline \text{NOT FOR CONSTRUCTION} \\ \hline \text{Project Number:} \\ \hline \text{18.223} \\ \end{array}$



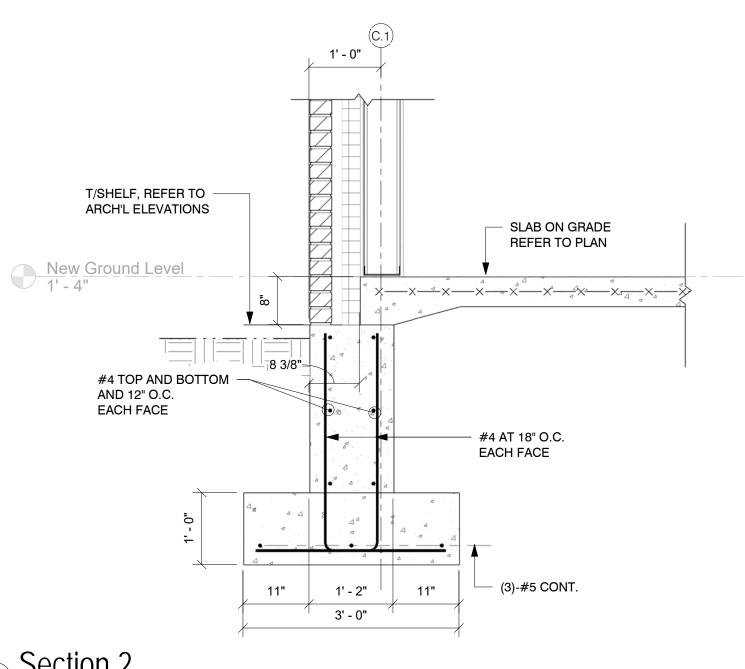


FOUNDATION NOTES:

- 1. TOP OF CONCRETE SLAB ELEVATION= (0'-0") UNLESS OTHERWISE NOTED.
- FLOOR CONSTRUCTION: 5" NORMAL WEIGHT CONCRETE SLAB REINF. WITH 6X6-W2.9XW2.9 W.W.F. (CHAIRED). REFER TO GENERAL NOTES FOR SUBGRADE REQUIREMENTS.
- PROVIDE SAWCUT JOINTS IN SLAB ON GRADE PER NOTE #4 ON DRAWINGS S700, AND "TYPICAL SLAB ON GRADE DETAILS" ON SHEET S600.
- 4. TOP OF FOOTING ELEVATION (X'-X") GIVEN FROM ELEVATION (0'-0").
- COORDINATE ALL SLAB ON GRADE DEPRESSIONS WITH ARCH'L DRAWINGS.
- COORDINATE ALL PLUMBING INVERTS AND LOCATIONS WITH PLUMBING & SITE DRAWINGS REFER TO TYPICAL DETAIL ON DRAWING S6.00 FOR SUB SURFACE PIPING THROUGH FOUNDATION WALLS.
- 7. "C.J." INDICATES FOUNDATION WALL CONTROL JOINT. REFER TO TYPICAL DETAIL ON DRAWING S600.
- EXISTING FOOTING LOCATIONS, EXTENTS, ELEVATIONS ARE ASSUMED AND ARE SHOWN FOR COORDINATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL EXISTING INFORMATION PROVIDED BEFORE FABRICATING
- MATCH EXISTING BOTTOM OF FOOTING ELEVATION. MUST BE FIELD VERIFIED, SEE NOTE 8 ABOVE

ZERO DATUM FOR ALL ELEVATIONS GIVEN ON STRUCTURAL DRAWINGS IS T/FOUNDATION ACTUAL ELEVATION 764'-4"= 0'-0"

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FOOTING SCHEDULE 2.0 TONS/SF

Remarks

Thicknes

Mark Length Width s No. Size

F50 5' - 0" 5' - 0" 1' - 3" 6 #5



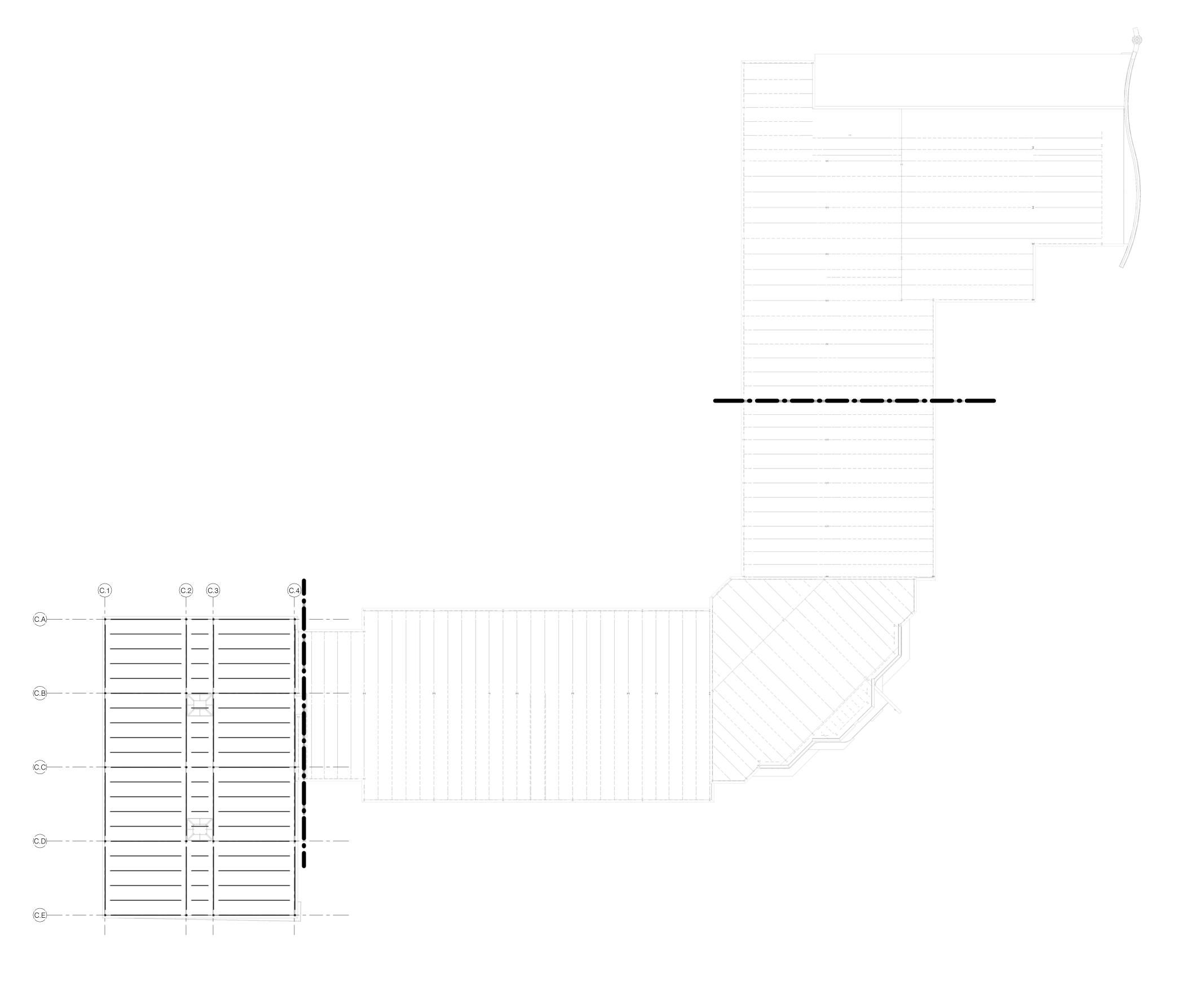
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FOUNDATION PLAN BUILDING C

State Project #: 162-0043RNV

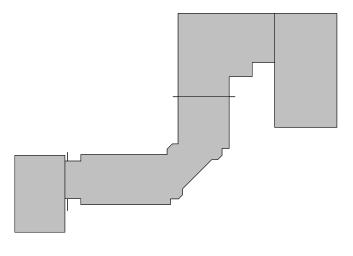
May 29, 2020 As indicated Drawn By: NOT FOR CONSTRUCTION

Drawing Number: S103



OVERALL ROOF FRAMING PLAN

1" = 20'-0"



Project Title:

Hinsdale School Alterations

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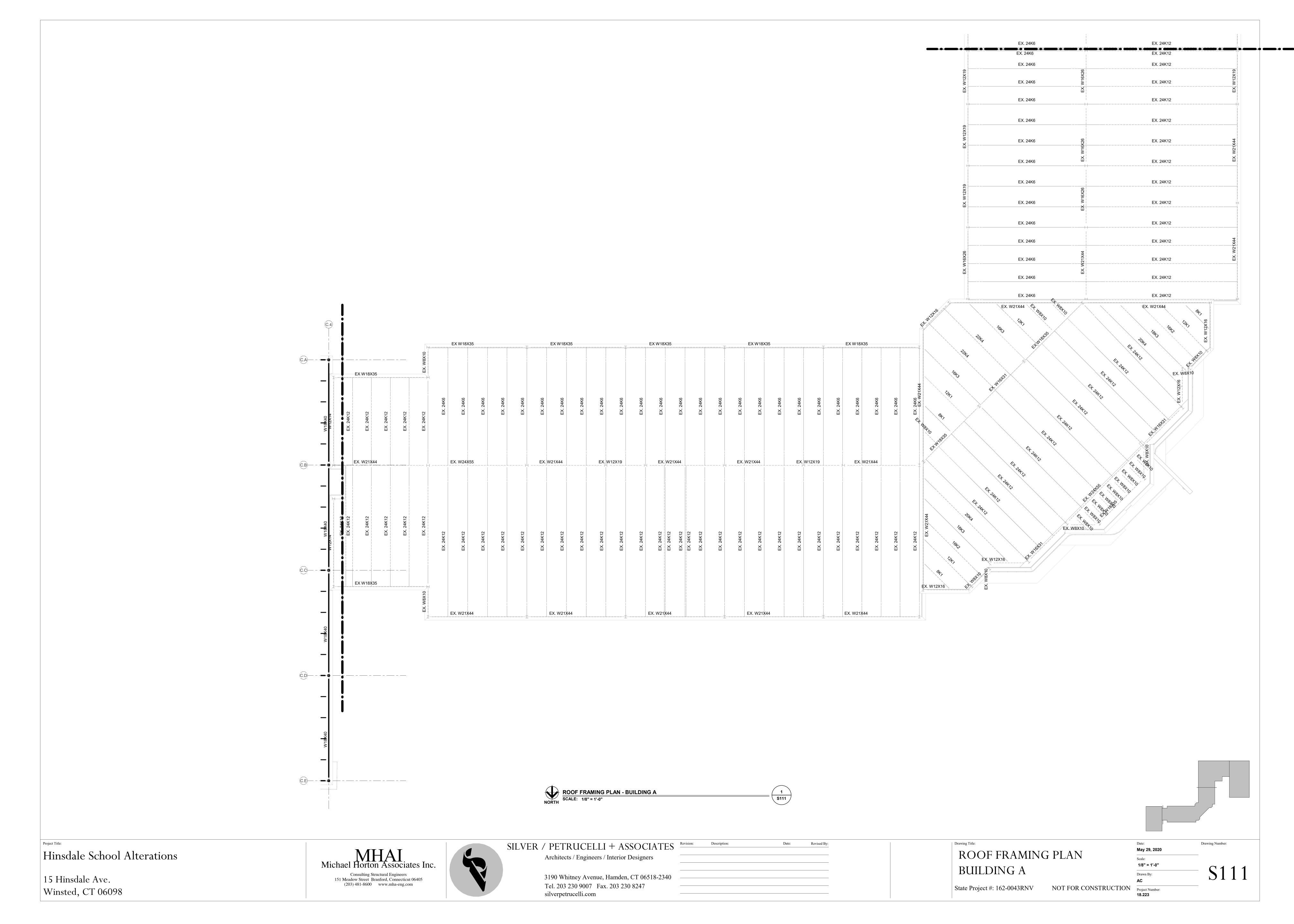
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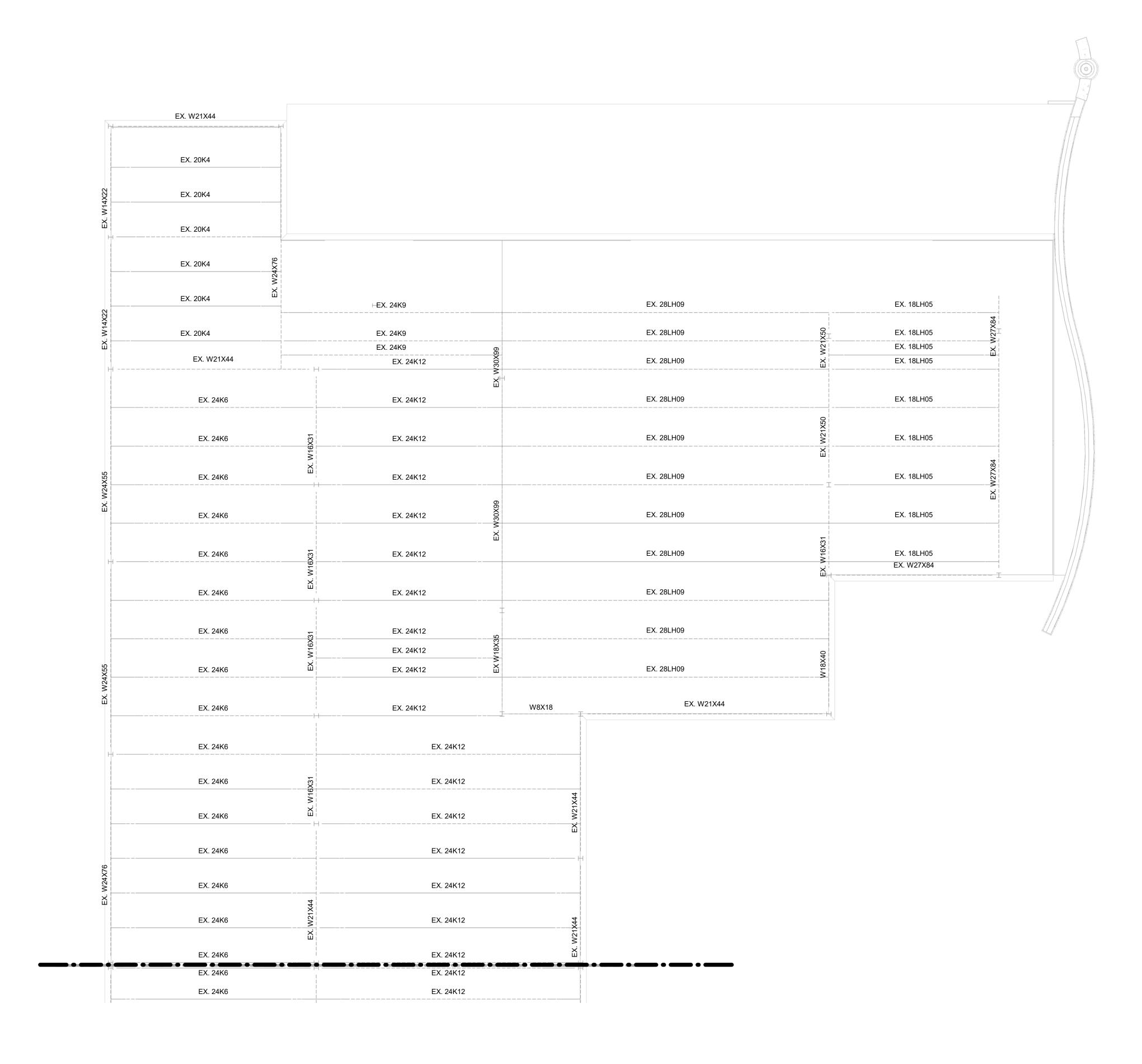
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OVERALL ROOF FRAMING
PLAN

State Project #: 162-0043RNV

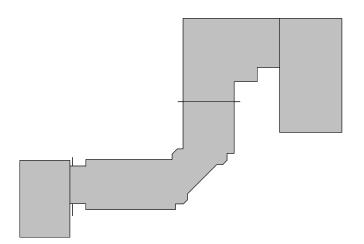




1 S112

Revised By:





Drawing Number:

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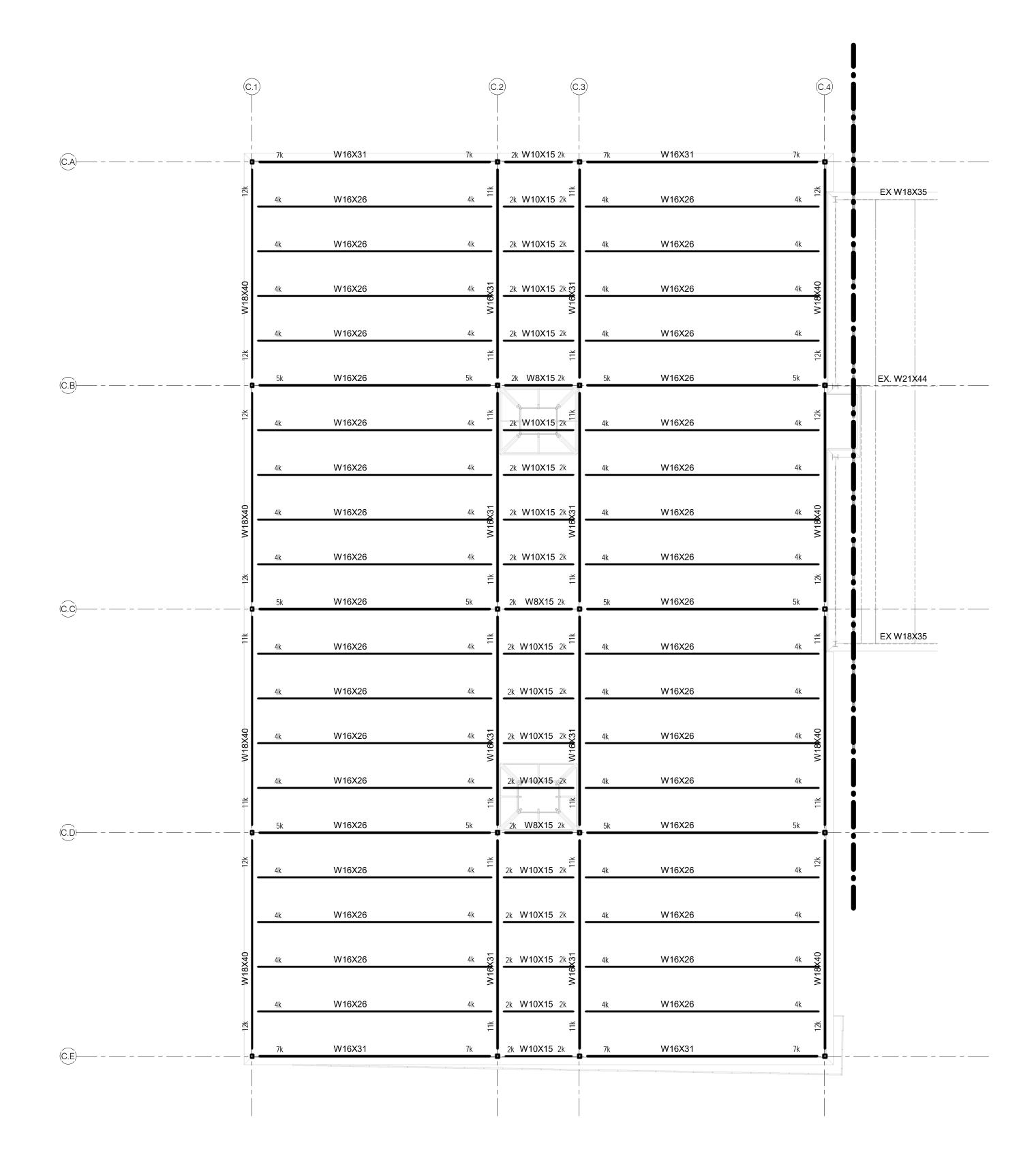
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ROOF FRAMING PLAN BUILDING B

1/8" = 1'-0" Drawn By: NOT FOR CONSTRUCTION
Project Number: 18.223

May 29, 2020 State Project #: 162-0043RNV





ROOF FRAMING NOTES:

- 1. TYPICAL ROOF CONSTRUCTION: 1 1/2 "X20GA. GALVANIZED TYPE "B" METAL ROOF DECK, REFER TO GENERAL NOTES FOR FASTENING REQUIREMENTS.
- 2. " " INDICATES MOMENT CONNECTION, REFER TO TYPICAL DETAILS ON DRAWING S601
- 3. ALL BEAM FRAMING SHALL HAVE EQUAL SPACING BETWEEN COLUMNS, UNLESS NOTED OTHERWISE.
- 4. REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS FOR ALL OPENING, DRAINS AND EQUIPMENT. PROVIDE FRAMES PER TYPICAL DETAILS
- 5. CONTRACTOR TO FIELD VERIFY ALL EXISTING FRAMING SIZES, SPACING AND LOCATIONS PRIOR TO SUBMITTING SHOP DRAWINGS.

Project Title:

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K	
V	

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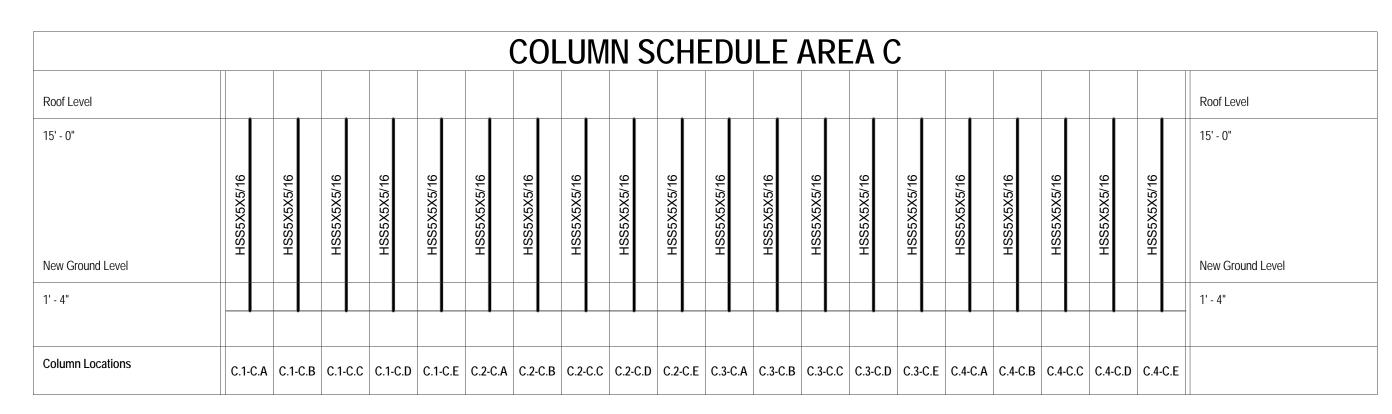
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Prawing Title:

ROOF FRAMING PLAN
BUILDING C

State Project #: 162-0043RNV

 $\begin{array}{c} \begin{array}{c} \text{Date:} & \text{Drawing Number:} \\ \hline \textbf{May 29, 2020} \\ \\ \text{Scale:} \\ \hline \textbf{1/8" = 1'-0"} \\ \hline \\ \text{Drawn By:} \\ \textbf{AC} \\ \\ \text{NOT FOR CONSTRUCTION} \end{array} & \begin{array}{c} \textbf{Drawing Number:} \\ \hline \textbf{S1 1 3} \\ \textbf{AC} \\ \hline \\ \textbf{Project Number:} \\ \textbf{18.223} \end{array} \end{array}$



COLUMN SCHEDULE NOTES:

- 1. LINE AT BOTTOM OF COLUMN INDICATES BOTTOM OF STEEL BASE PLATE. ADD 1 1/2" FOR GROUT AND LEVELING NUTS FOR TOP OF CONCRETE ELEVATION SEE COLUMN PIER SCHEDULE. IF NO PIER DETAIL IS GIVEN. COLUMN SITS DIRECTLY ON FOOTING OR STEEL BEAM.
- 2. APPROXIMATE TOP OF COLUMN ELEVATION. FOR ACTUAL ELEVATION SEE PLANS AND SECTIONS.
- 3. PROVIDE 1/4" CAP PLATE AT ALL HSS COLUMNS & 3/4" CAP PLATE AT ALL WIDE FLANGE COLUMNS UNLESS OTHERWISE NOTED.
- 4. ALL COLUMNS RECEIVE 2 HOUR SPRAY APPLIED FIREPROOFING UNLESS NOTED OTHERWISE.
- 5. ALL ROUND COLUMNS TO RECEIVE 2 HOUR INTUMESCENT PAINT COATING.

COLUMN PIER SCHEDULE AREA C						
GRID	T/CONC	PIER	BASE PLATE			
C.1-C.A	-1' - 0"	P1	BP-1			
C.1-C.B	-1' - 0"	P1	BP-1			
C.1-C.C	-1' - 0"	P1	BP-1			
C.1-C.D	-1' - 0"	P1	BP-1			
C.1-C.E	-1' - 0"	P1	BP-1			
C.2-C.A	-1' - 0"	P1	BP-1			
C.2-C.B	-1' - 0"	P1	BP-1			
C.2-C.C	-1' - 0"	P1	BP-1			
C.2-C.D	-1' - 0"	P1	BP-1			
C.2-C.E	-1' - 0"	P1	BP-1			
C.3-C.A	-1' - 0"	P1	BP-1			
C.3-C.B	-1' - 0"	P1	BP-1			
C.3-C.C	-1' - 0"	P1	BP-1			
C.3-C.D	-1' - 0"	P1	BP-1			
C.3-C.E	-1' - 0"	P1	BP-1			
C.4-C.A	-1' - 0"	P1	BP-1			
C.4-C.B	-1' - 0"	P1	BP-1			
C.4-C.C	-1' - 0"	P1	BP-1			
C.4-C.D	-1' - 0"	P1	BP-1			
C.4-C.E	-1' - 0"	P1	BP-1			

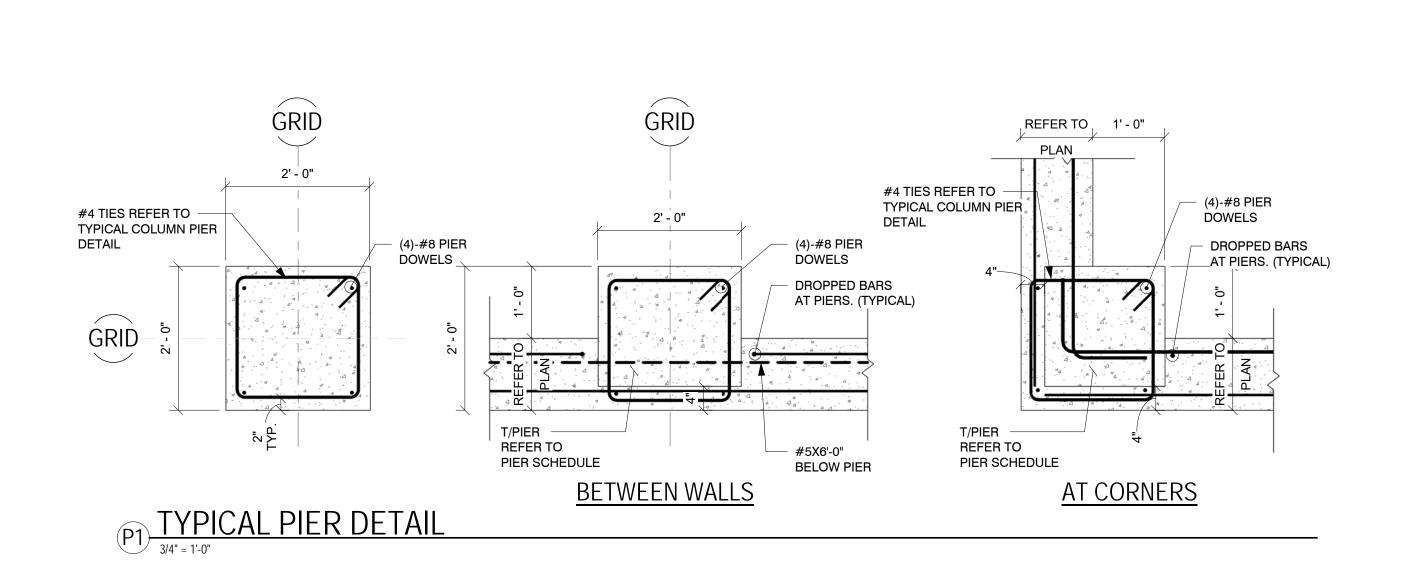
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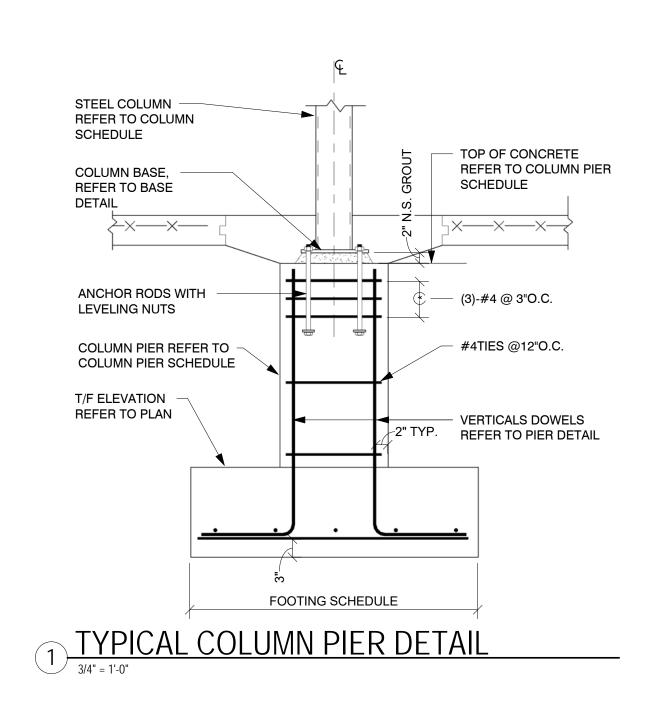
IF NO PIER DETAIL DESIGNATION IS GIVEN. COLUMN SITS DIRECTLY ON FOOTING OR STEEL BEAM.

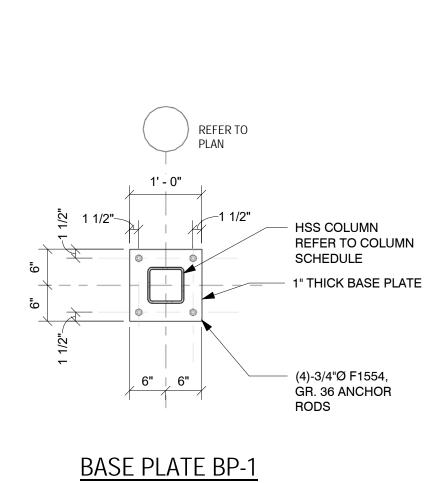
REFER TO DRAWING S201 FOR BASE PLATE DETAILS

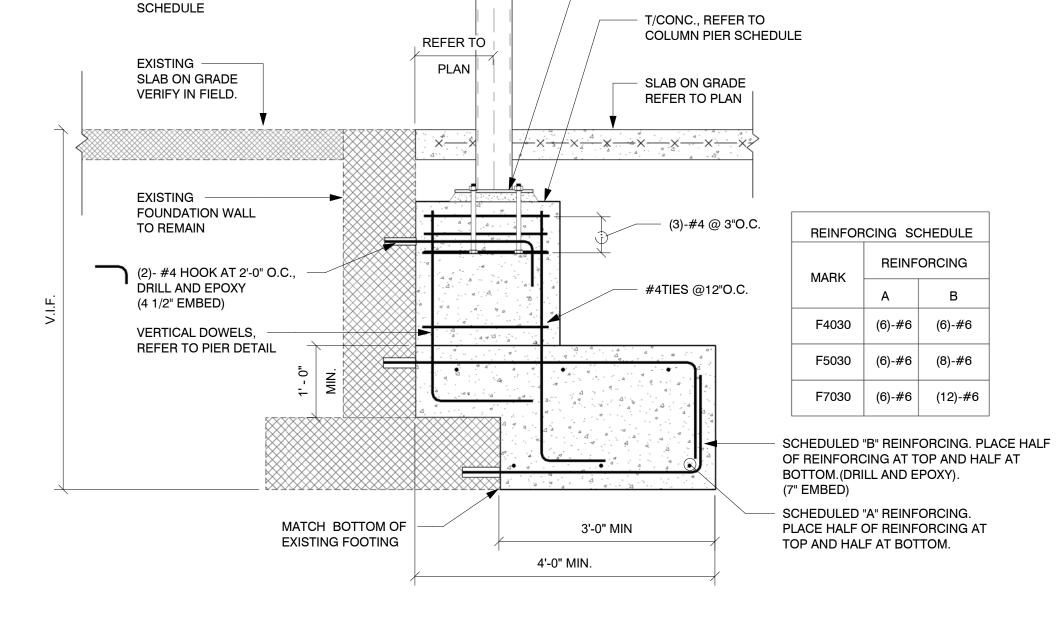
TOP OF CONCRETE IS GIVEN FROM FINISHED FLOOR ELEVATION (0'-0")

"INT. PAINT" INDICATES INTUMESCENT PAINT FULL HEIGHT REFER TO SPECS









BASE PLATE, REFER TO BASE PLATE DETAIL

TYPICAL FOOTING AT EXISTING

HSS COLUMN ——— REFER TO COLUMN

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COLUMN SCHEDULE

Scale

As i

Draw
AC

State Project #: 162-0043RNV NOT FOR CONSTRUCTION

18 2

Date:

May 29, 2020

Scale:

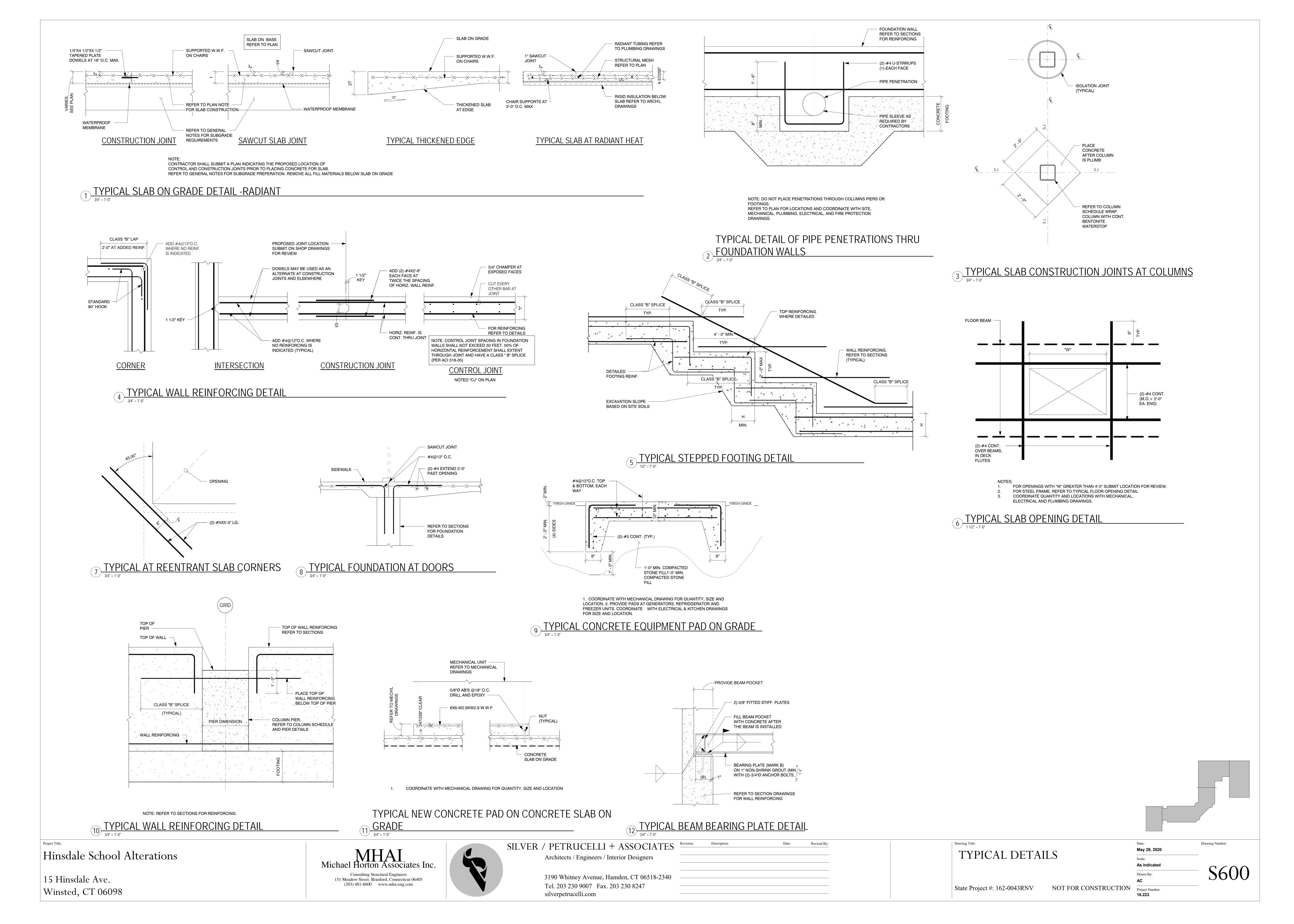
As indicated

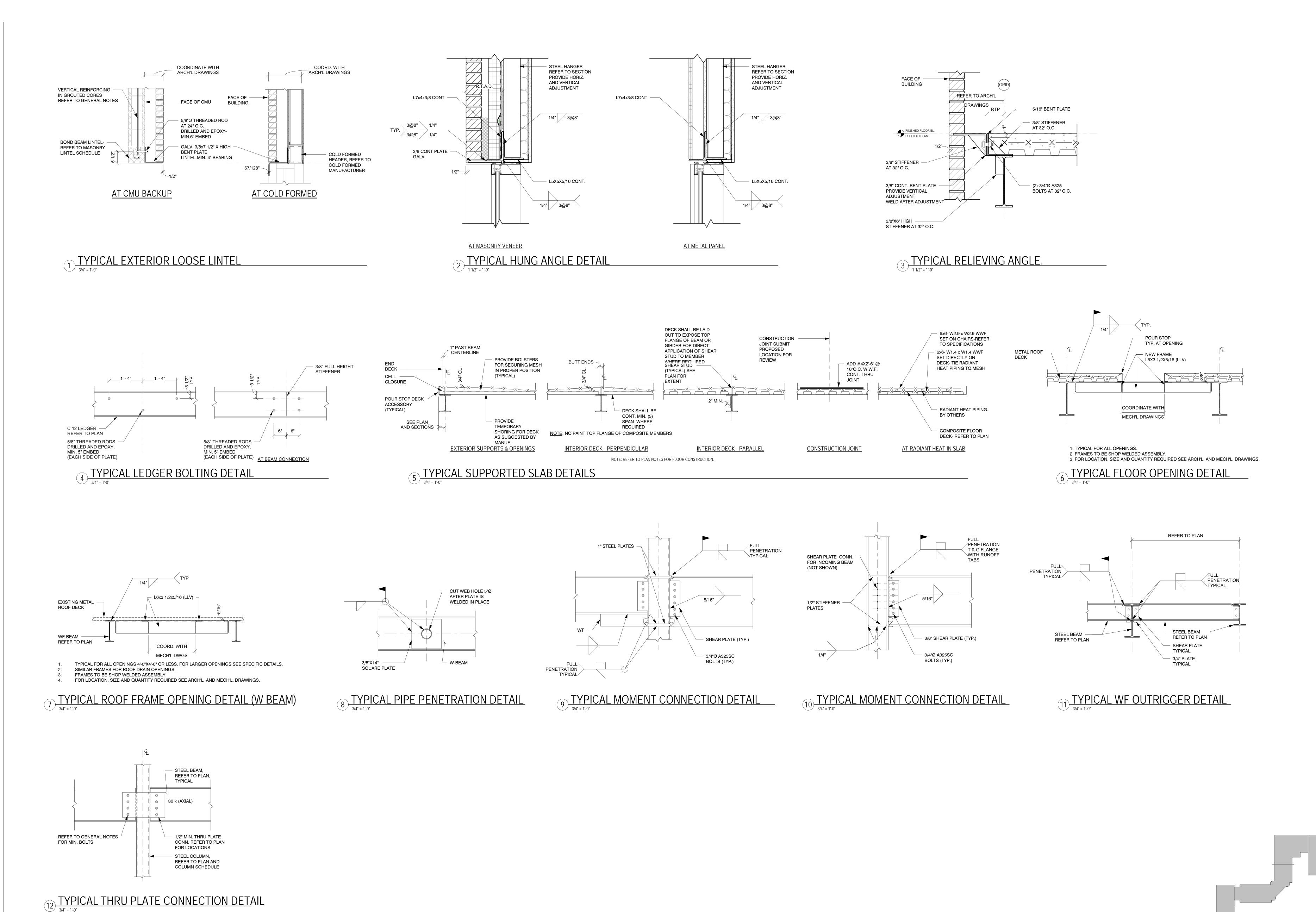
Drawn By:

AC

Project Number:

18.223





Project Title:
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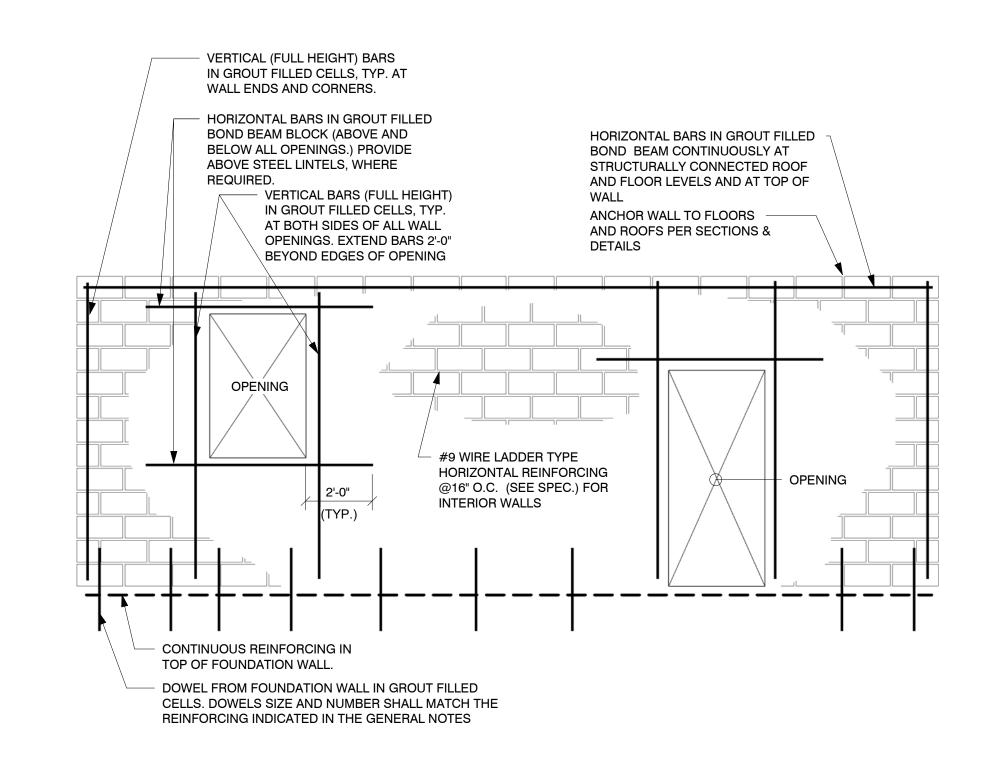
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TYPICAL DETAILS

State Project #: 162-0043RNV

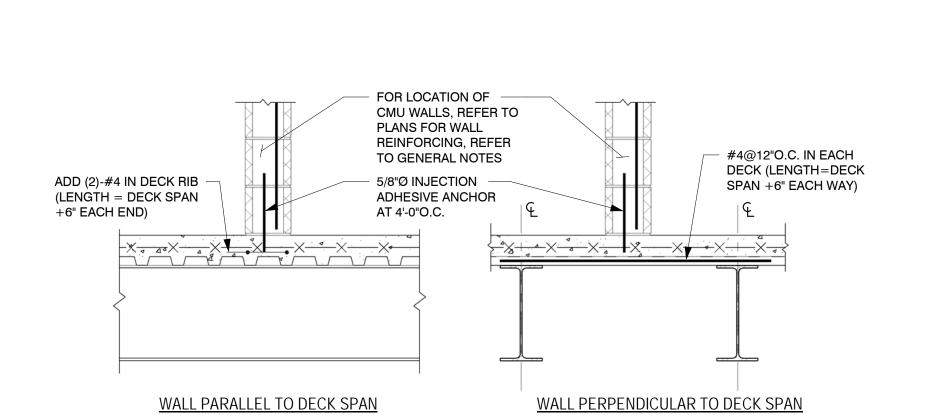
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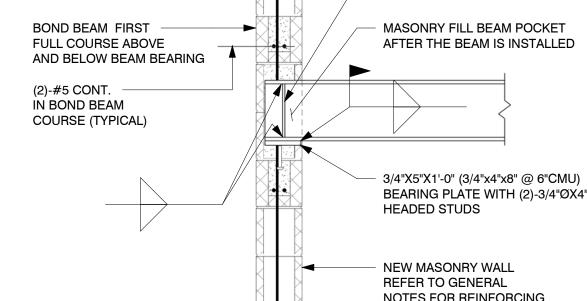


NOTE: REFER TO CONCRETE MASONRY GENERAL NOTES FOR WALL REINFORCING REQUIREMENTS.

TYPICAL CMU WALL REINFORCEMENT DETAIL

3/4" = 1'-0"





MASONRY

ANCHORS

NEW COLUMN

MASONRY

ANCHORS

CORNER BAR TO

MATCH BOND BEAM

C.J. LOCATIONS

(SHEAR WALLS)

<u>INTERSECTIONS</u>

REFER TO GENERAL NOTES ON DRAIWINGS

2 TYPICAL CMU REINFORCING PLAN DETAILS

______(2)-3/8" FITTED STIFF. PLATES

TO MATCH WALL REINFORCING.

AT COLUMNS

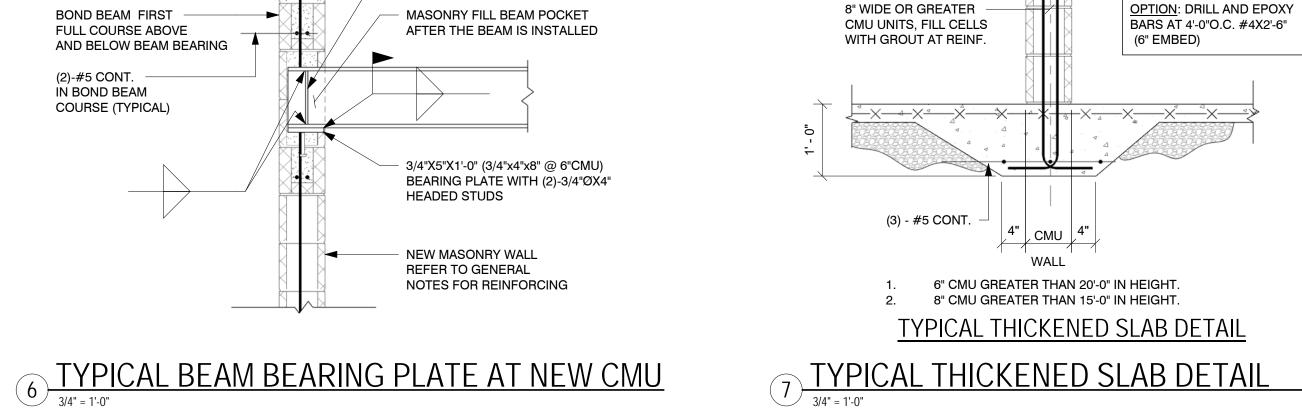
CORNERS (BOND BEAMS)

END OF

REINF. AT

EA SIDE OF

REINFORCING



GROUT SOLID FOR FULL -HEIGHT AT REINFORCING

HEIGHT TO

BOTTOM OF

LINTEL

OPENINGS W/BOND BEAM LINTELS

INTERMEDIATE

1. REINFORCING DETAILS APPLY TO ALL CMU WALLS. FOR ACTUAL REINFORCING REQUIREMENTS,

2. PROVIDE DOWELS FROM CONCRETE FOUNDATIONS TO CMU WALL ABOVE. SIZE AND NUMBER

EN OF -

WALL REINF.

- END OF WALL

(AT STEEL LINTEL BEARINGS)

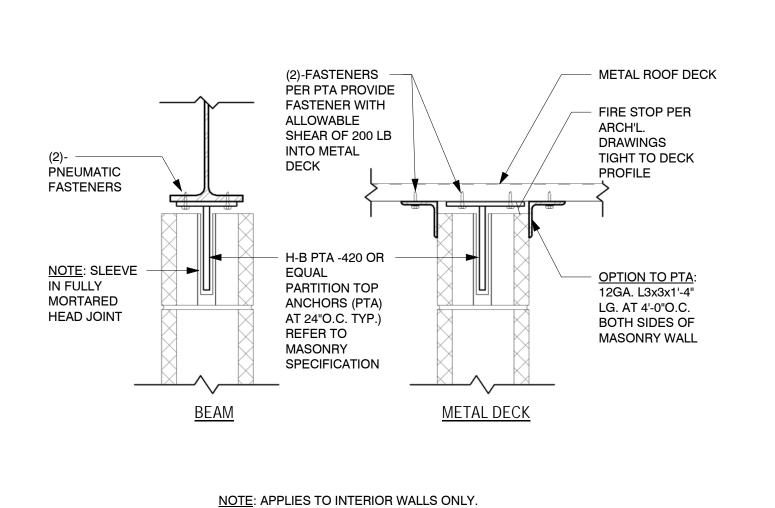
CORNERS

LOCATIONS, (TYPICAL)

REINF. AT EACH

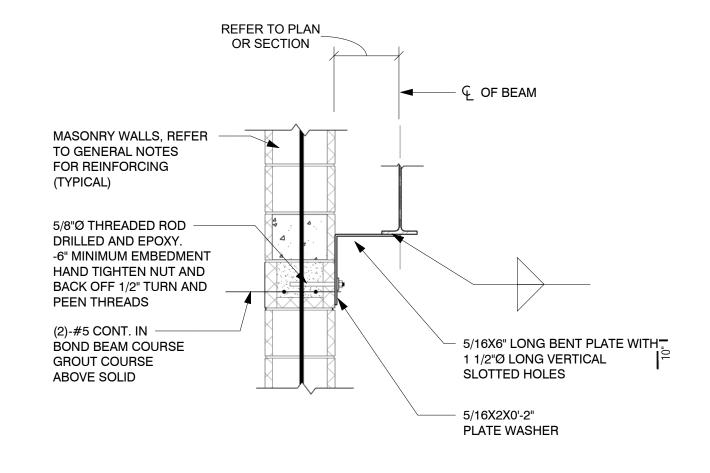
WALL REINF.

SIDE OF C.J.





– #4 AT 4'-0" O.C. DOWELS 👵 (ALTERNATE BAR BENDS)



4 TYPICAL BEAM TO MASONRY CONNECTION

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Revised By:

TYPICAL DETAILS

State Project #: 162-0043RNV

May 29, 2020 As indicated Drawn By:

Drawing Number: S602 NOT FOR CONSTRUCTION

GENERAL NOTES GOVERNING CODE: 2018 CONNECTICUT STATE BUILDING CODE, (2015 INTERNATIONAL BUILDING CODE) **DESIGN LOADS:** TOWN OF WINCHESTER MINIMUM FLOOR LIVE LOADS: FIRST FLOOR: 100 PSF ROOF LOAD: **ROOF SNOW LOAD CRITERIA:** Pg = 40 PSFCe = 1.0ls = 1.1Ct= 1.0 Pf = 30.8 PSFWITH INCREASES FOR SNOW DRIFTING, UNBALANCES AND SLIDING PER SECTION 1608 (2015 IBC). MINIMUM ROOF LIVE LOAD = 30 PSF ROOF DEAD LOAD = 15 PSF WIND LOAD CRITERIA: SECTION 1609 (2015 IBC) ULTIMATE WIND SPEED $V_U = 125 \text{ MPH}$ NOMINAL DESIGN WIND V_{ASD} = 95 MPH RISK CATEGORY III, lw = 1.0EXPOSURE CLASSIFICATION "B". MINIMUM WIND LOAD ON PRIMARY STRUCTURE = 16 PSF WIND LOADS ON SECONDARY ELEMENTS SHALL CONFORM WITH ASCE 7-10. COMPONENT AND CLADDING DESIGN WIND PRESSURES: ROOF ZONE 1: POSITIVE: 11.45 PSF NEGATIVE: -28.15 PSF ROOF ZONE 2: POSITIVE: 11.45 PSF NEGATIVE: -47.25 PSF ROOF ZONE 3: POSITIVE: 11.45 PSF NEGATIVE: -71.10 PSF WALL ZONE 4: POSITIVE: 28.15 PSF NEGATIVE: -30.55 PSF WALL ZONE 5: POSITIVE: 28.15 PSF NEGATIVE: -37.70 PSF **ROOF OVERHANG ZONE 2:** -43.80 PSF **ROOF OVERHANG ZONE 3:** -72.10 PSF DESIGN WIND PRESSURE IS COMPUTED BASED ON ULTIMATE WIND SPEED USING 10 SQUARE FOOT OF AREA. WIND LOADS ARE REDUCIBLE PER ASCE LOAD COMBINATIONS. SEISMIC LOAD CRITERIA: AS PER SECTION 1613 (2015 IBC) WITH: RISK CATEGORY = III SEISMIC IMPORTANCE FACTOR, le = 1.25, PER ASCE 7-10, TABLE 1.5-2 Ss = 0.1170g, S1 = 0.065gSOIL SITE CLASS = D SPECTRAL RESPONSE COEFFICIENTS, Sds = 0.189G, Sd1 = 0.104g SEISMIC DESIGN CATEGORY, B BASIC SEISMIC-FORCE-RESISTING SYSTEM: STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE DESIGN BASE SHEAR, V = 0.0787W RESPONSE MODIFICATION FACTOR, R = 3.0ANALYSIS PROCEDURE USED: SIMPLIFIED ANALYSIS ASSUMED BEARING PRESSURE ON UNDISTURBED SOIL: 3000 PSF ASSUMED BEARING PRESSURE ON COMPACTED FILL: SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THE GENERAL STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING. SHEETING. TEMPORARY BRACING. GUYS OR TIEDOWNS WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER COMPLETION OF THE PROJECT.

THE CONTRACTOR SHALL PROVIDE SHORING CALCULATIONS AND SHORING DRAWINGS, INDICATING THE WORK TO BE PROVIDED, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CONNECTICUT.

LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO REQUIREMENTS OF OTHER (NON-STRUCTURAL) DISCIPLINES ARE SHOWN FOR BIDDING PURPOSES ONLY. THE CONTRACTOR SHALL OBTAIN FROM THE HEATING AND VENTILATING, ELECTRICAL, PLUMBING AND OTHER SUBCONTRACTORS THE FINAL APPROVED SIZE AND LOCATION OF ALL OPENINGS AND WORK TO BE PROVIDED FOR THEIR TRADE IN ROOFS, FLOORS AND WALLS, WHETHER SHOWN OR NOT SHOWN ON STRUCTURAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR TRANSMISSION OF REQUIREMENTS, LOCATIONS AND DETAILS TO STRUCTURAL SUBCONTRACTORS. EXCESS COST RELATED TO VARIATION IN MECHANICAL REQUIREMENTS ARE NOT TO BE BORNE BY THE OWNER.

4. MECHANICAL EQUIPMENT WEIGHTS USED IN DESIGN OF SUPPORTING ELEMENTS HAVE BEEN INDICATED ON THE DRAWINGS. CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO INSTALLATION IF ACTUAL WEIGHT EXCEEDS WEIGHT SHOWN ON DRAWINGS.

5. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.

6. SHOP DRAWINGS ARE TO BE CHECKED BY THE CONTRACTOR AND SUBCONTRACTOR AND BEAR CHECKER'S INITIALS BEFORE BEING SUBMITTED TO THE ARCHITECT FOR APPROVAL.

7. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES AND EXISTING CONDITIONS BEFORE PROCEEDING WITH ANY WORK.

8. ALL SECTIONS AND DETAILS SHALL BE CONSIDERED TYPICAL AND APPLY FOR THE SAME AND SIMILAR SITUATIONS THROUGHOUT THE BUILDING, UNLESS OTHERWISE SPECIFICALLY NOTED.

CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO SUBMITTING THEIR BID FOR REFERENCE TO ALL NOTES ON ARCHITECTURAL DRAWINGS REFERRING TO ASEE STRUCTURAL DRAWINGS@. IF THE SIZE OF ELEMENTS AND DETAILING OF MEMBERS IS NOT INDICATED. THE CONTRACTOR SHALL CONTACT THE ARCHITECT TO REQUEST THE MISSING INFORMATION IN PREPARATION OF THEIR BID. THESE REFERENCED ITEMS SHALL BE PART OF THE BASE BID.

10. IN CASES OF DISCREPANCIES BETWEEN CONTRACT DOCUMENTS AND SUBMITTED SHOP DRAWINGS, THE CONTRACT DOCUMENTS SHALL GOVERN INSTALLATION OF MATERIALS.

FOUNDATIONS

BACKFILLING SHALL BE ACCOMPLISHED TO EQUAL HEIGHTS ON BOTH SIDES OF FOUNDATION WALLS TO PREVENT MOVEMENTS DUE TO UNBALANCED EARTH PRESSURE. WHERE EARTH IS ON ONE SIDE ONLY, BACKFILLING AND COMPACTION SHALL NOT START UNTIL FLOOR SLAB OR ADEQUATE BRACING IS PROVIDED FOR WALL SUPPORT (EXCEPT AT RETAINING WALLS).

2. ALL FOOTINGS ARE TO REST ON UNDISTURBED NATURAL SOIL, AS DEFINED IN THE SPECIFICATIONS, OR CONTROLLED COMPACTED FILL, REGARDLESS OF ELEVATIONS SHOWN ON DRAWINGS. FOOTING BOTTOM ELEVATIONS SHALL NOT BE HIGHER THAN INDICATED ON THE FOUNDATION PLAN, NOR LESS THAN 3'-6" BELOW FINISH GRADES.

IF FILL MATERIALS ARE ENCOUNTERED AT FOOTING BEARING ELEVATIONS, ALL FILL MATERIAL SHALL BE EXCAVATED AND DISPOSED OF LEGALLY OFF-SITE. THE OVER EXCAVATION SHALL BE BACKFILLED WITH CONTROLLED COMPACTED FILL TO THE BOTTOM OF FOOTING ELEVATION AS REQUIRED.

4. ALL CONTROLLED COMPACTED BACKFILL UNDER FOOTINGS AND WITHIN THE FOOTPRINT OF THE STRUCTURE SHALL BE COMPACTED TO 95% OF THE MODIFIED OPTIMUM DENSITY.

BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE AT LEAST 3'-6" BELOW FINISHED GRADE. PRIOR TO PROCEEDING WITH FOOTING EXCAVATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF FINISH GRADES AND BOTTOM OF EXTERIOR FOOTING ELEVATIONS TO MAINTAIN THE 3'-6" FROST PROTECTION.

6. ALL SOIL SURROUNDING AND UNDER ALL FOOTINGS SHALL BE PROTECTED FROM FREEZING AND FROST ACTION DURING THE COURSE OF CONSTRUCTION.

FOOTING BOTTOMS SHALL STEP AT THE RATE OF 1 UNIT VERTICAL TO 2 UNITS HORIZONTAL WITH A MAXIMUM VERTICAL STEP OF 2'-0".

WHERE SUBSURFACE PIPING PASSES THROUGH FOUNDATION WALLS, THE TOP OF THE FOOTINGS SHALL BE AT LEAST 8" BELOW THE INVERT ELEVATION OF THE PIPING AND CONDUITS. COORDINATE ALL INVERTS WITH MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, SITE AND SITE UTILITY DRAWINGS.

WHERE FOOTINGS ARE IN CLOSE PROXIMITY OF SUBSURFACE PIPING OR CONDUIT, BOTTOM OF FOOTINGS SHALL BE AT LEAST 8" BELOW INVERT ELEVATION OF PIPING OR CONDUITS.

KEEP FOUNDATION EXCAVATIONS FREE OF WATER AT ALL TIMES.

11. USE LEAN CONCRETE (fc=1500) OR CONTROLLED COMPACTED FILL FOR OVER-EXCAVATION

12. PLACEMENT OF ALL COMPACTED FILL MATERIALS MUST BE UNDER SUPERVISION OF AN APPROVED TESTING LABORATORY (SEE SPECIFICATIONS). CONCRETE FOUNDATIONS SHALL NOT BE PLACED UNTIL SUBGRADE HAS BEEN CHECKED IN PLACE AND APPROVED BY TESTING LABORATORY.

13. EXISTING ON-SITE EXCAVATED MATERIALS SHALL NOT BE ACCEPTABLE BACKFILL MATERIAL BELOW BUILDING FOUNDATIONS, SLABS ON GRADE, OR FOR BACKFILLING OF FOUNDATION WALLS, OR WITHIN 2 FEET OF PAVEMENT GRADES UNLESS APPROVED BY THE GEOTECHNICAL ENGINEER OF

14. CONTROL JOINT SPACING IN FOUNDATION WALLS SHALL NOT EXCEED 30 FEET. 50% OF HORIZONTAL REINFORCEMENT SHALL EXTEND THROUGH JOINT AND HAVE A CLASS "B" SPLICE (PER

15. WHERE REQUIRED. CONSTRUCTION JOINTS SHALL BE KEYED AND OCCUR AT CONTROL JOINT INTERVALS. PROVIDE BENTONITE WATERSTOP FULL HEIGHT IN ALL WALL CONSTRUCTION JOINTS BELOW GRADE.

16. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF BRICK OR CONCRETE MASONRY BLOCK SHELF ELEVATIONS IN THE FOUNDATION WALLS.

THE LOCATION AND ELEVATION OF EXISTING FOOTINGS INDICATED ARE BASED ON DRAWINGS , WHICH HAVE BEEN PROVIDED TO THE DESIGNERS BY THE OWNER. THIS INFORMATION IS PROVIDED FOR BIDDING PURPOSES ONLY. ACTUAL EXISTING FOUNDATIONS MAY VARY FROM WHAT IS INDICATED, AND MUST BE VERIFIED IN FIELD PRIOR TO PREPARATION OF SHOP DRAWINGS. NOTIFY ARCHITECT IF EXISTING CONDITIONS PRECLUDE USE OF DETAILS AS SHOWN.

18. THE FOUNDATION DESIGN OF THE STRUCTURE HAS BEEN PREPARED BASED ON THE SOIL BORINGS, SOILS REPORT AND RECOMMENDATIONS PROVIDED BY THE GEOTECHNICAL ENGINEER, -----, DATED -----, IT IS THE CONTRACTOR=S RESPONSIBILITY TO REVIEW THE MATERIAL PRIOR TO PREPARING HIS BID TO ASSURE HE UNDERSTANDS THE SOIL CONDITIONS AND THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER.

19. THE FOUNDATION DESIGN OF THE STRUCTURE HAS BEEN PREPARED BASED ON THE SITE GRADING PLAN PREPARED BY ------ DATED -----. IT IS THE CONTRACTOR=S RESPONSIBILITY TO REVIEW THE DRAWING PRIOR TO PREPARING HIS BID TO ASSURE HE UNDERSTANDS THE SITE CONDITIONS AND THE REQUIREMENTS OF THE SITE ENGINEER.

20. FOUNDATION DESIGN SITE PREPARATION: THE FOUNDATION DESIGN AS INDICATED ON THE STRUCTURAL DRAWINGS HAS BEEN BASED ON THE FOLLOWING SITE PREPARATION. THE SITE HAS BEEN PREPARED BY THE EXCAVATION AND REMOVAL FROM THE SITE OF ALL EXISTING FILL AND CONTAMINATED SOILS. THE FOUNDATION DESIGN IS BASED ON THE CONTROLLED BACKFILLING OF THE SITE EXCAVATION WITH CONTROLLED FILL COMPACTED TO AT LEAST 95% OF THE MODIFIED OPTIMUM DENSITY IN ACCORDANCE WITH ASTM D1557.

PROVIDE CONTINUOUS BENTONITE WATERSTOPS BETWEEN THE TOP OF FOOTING AND BOTTOM OF ALL WALLS WHERE THE SLAB ON GRADE IS BELOW THE FINISH GRADE. PLACE THE WATERSTOP WITH A MINIMUM OF 2" CLEAR FROM THE FACE OF WALL, OR PER THE MANUFACTURER=S WRITTEN INSTALLATION INSTRUCTIONS. ATTACH WATERSTOP TO THE CONCRETE PER THE MANUFACTURER=S WRITTEN INSTALLATION INSTRUCTIONS.

SLAB ON GRADE

1. ALL SLABS ON GRADE SHALL BEAR ON A 15 MIL, CLASS A, VAPOR RETARDER OVER A MINIMUM OF 4 INCHES OF 3/4" COMPACTED PROCESSED AGGREGATE FILL, OVER A MINIMUM OF 6 INCHES OF COMPACTED GRAVEL FILL.

ALL JOINTS OF THE VAPOR RETARDER SHALL BE SEALED WITH TAPE. TURN THE VAPOR BARRIER UP AT ALL TERMINATIONS AGAINST FOUNDATION WALLS AND SEAL JOINT BY CONTINUOUSLY

IF FILL MATERIALS ARE ENCOUNTERED SLAB SUBGRADE ELEVATIONS, ALL FILL MATERIAL SHALL BE EXCAVATED AND DISPOSED OF LEGALLY OFF-SITE. THE OVER EXCAVATION SHALL BE BACKFILLED WITH CONTROLLED COMPACTED FILL TO THE BOTTOM OF THE SLAB SUBGRADE AS REQUIRED. ALL CONTROLLED COMPACTED BACKFILL UNDER SLABS WITHIN THE FOOTPRINT OF THE STRUCTURE SHALL BE COMPACTED TO 95% OF THE MODIFIED OPTIMUM DENSITY.

3. EXISTING ON-SITE EXCAVATED MATERIALS SHALL NOT BE ACCEPTABLE BACKFILL MATERIAL BELOW BUILDING SLABS ON GRADE UNLESS APPROVED BY THE GEOTECHNICAL ENGINEER OF

4. CONTROL JOINTS ARE TO BE CREATED IN SLABS ON GRADE. JOINTS SHALL BE SAW CUT 1/8" WIDE AND TO A DEPTH EQUAL TO 1/4 OF THE SLAB THICKNESS. LOCATE JOINTS A MAXIMUM OF 12'-0" ON CENTER IN EACH DIRECTION, IN ADDITION TO THOSE LOCATIONS INDICATED ON PLAN.

CONSTRUCTION JOINTS AS REQUIRED SHALL BE KEYED AND DOWELED AND LOCATED AT INTERVALS OF A MAXIMUM OF 75 FEET ON CENTER. 6. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND SIZE OF DEPRESSED AREAS IN

AREAS, UNLESS OTHERWISE SHOWN. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF ALL MASONRY WALLS FOR WHICH NO FOOTING IS SHOWN. SEE DETAILS FOR SLAB REINFORCING REQUIREMENTS AT ALL WALL LOCATIONS.

CONCRETE SLABS AND FOR CONCRETE PADS. MAINTAIN FULL SLAB THICKNESS IN DEPRESSED

8. CONTRACTOR SHALL CONSOLIDATE ALL SLAB CONCRETE USING VIBRATIONAL METHODS IN CONFORMANCE WITH ACI 309, AGUIDE FOR CONSOLIDATION OF CONCRETE.

CONCRETE

MATERIALS:

CONCRETE SHALL MEET THE REQUIREMENTS OF THE EXPOSURE CATEGORY LISTED BELOW PER ACI 318 CHAPTER 19, AND SHALL HAVE THE MAXIMUM WATER TO CEMENT RATIO, TARGET AIR CONTENT AND DEVELOP STRENGTH IN 28 DAYS AS FOLLOWS:

LOCATION	EXPOSURE CATEGORY	STRENGTH (PSI)	MAXIMUM WATER TO CEMENT RATIO	TARGET AIR CONTENT
FOUNDATIONS	F2	4500	0.45	6%
SLABS ON GRADE	F0	3500	N/A	N/A
SLABS ON METAL DECK	F0	3500	N/A	N/A

ALL DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS MUST FOLLOW ACI

REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.

3. NO TACK WELDING OF REINFORCING WILL BE PERMITTED.

4. UNLESS NOTED OTHERWISE, ALL LAP SPLICES SHALL BE CLASS B, IN ACCORDANCE WITH ACI 318-14.

WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.

WIRE MESH REINFORCEMENT MUST LAP ONE MESH SIZE AT SIDES AND ENDS AND BE WIRED TOGETHER.

7. WELDED WIRE FABRIC SIDE LAPS SHALL BE STAGGERED TO AVOID FOUR MESH THICKNESS AT COINCIDING END LAP AND SIDE LAP LOCATION.

8. NO CALCIUM CHLORIDE OR ADMIXTURES CONTAINING MORE THAN 0.1% CHLORIDE BY WEIGHT OF ADMIXTURE SHALL BE USED IN THE CONCRETE.

BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE AT LEAST 3'-6" BELOW FINISHED GRADE. PRIOR TO PROCEEDING WITH FOOTING FORMWORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF BOTTOM OF EXTERIOR FOOTING ELEVATIONS WITH THE FINISH GRADES AND MAINTAINING THE 3'-6" FROST PROTECTION. WHERE SUBSURFACE PIPING PASSES THROUGH FOUNDATION WALLS, THE TOP OF FOOTINGS SHALL BE AT LEAST 8" BELOW THE INVERT ELEVATION OF THE PIPING AND CONDUITS. COORDINATE ALL INVERTS WITH MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, SITE AND SITE UTILITY DRAWINGS. PIPING OR CONDUITS SHALL NOT PASS THROUGH COLUMNS OR PIERS.

CONTRACTOR SHALL ANTICIPATE DEFLECTION OF STEEL MEMBERS AT SUPPORTED ELEVATED SLABS OF 1 INCH MAXIMUM, AND PROVIDE ADDITIONAL CONCRETE AS REQUIRED.

11. ALL HORIZONTAL STEEL SHOWN IN SECTIONS AND DETAILS SHALL BE CONTINUOUS, UNLESS OTHERWISE NOTED. ALL LAPS SHALL BE CLASS B SPLICES IN ACCORDANCE WITH ACI 318. 12. AT INTERSECTIONS OF REINFORCED CONCRETE WALLS, PROVIDE CORNER DOWELS OF SAME SIZE AND AT THE SAME SPACING AS THE SMALLER HORIZONTAL REINFORCING. DOWELS SHALL HAVE

PROVIDE DRILLED AND EPOXIED DOWELS OF SAME SIZE TO MATCH NEW REINFORCING WHERE NEW CONSTRUCTION ABUTS EXISTING CONCRETE CONSTRUCTION. LENGTH SHALL BE THE REQUIRED EMBEDMENT DEPTH PER THE ANCHOR BOLT/EPOXY MANUFACTURER PLUS A CLASS B LAP SPLICE FOR THE SIZE OF BAR.

PROVIDE CORROSION RESISTANT ACCESSORIES IN ALL EXPOSED CONSTRUCTION.

ALL KEYS IN CONCRETE WALLS SHALL BE 2 X 4 UNLESS NOTED OTHERWISE.

A CLASS B LAP WITH HORIZONTAL REINFORCING IN EACH DIRECTION.

16. CONCRETE PIERS: PLACE CONCRETE PIERS AND WALLS TOGETHER. SET PIER REINFORCING AND SET WALL REINFORCING THROUGH PIER VERTICAL BARS. PROVIDE DOWELS WITH STANDARD HOOK FROM FOOTING AT ALL PIERS. SIZE AND QUANTITY OF DOWELS TO MATCH VERTICAL PIER REINFORCING, PROVIDE CLASS "B" SPLICE.

SEE ARCHITECTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, ELECTRICAL, SITE, SITE UTILITY AND EQUIPMENT DRAWINGS FOR CONCRETE PADS, SLEEVES, OPENINGS, RECESSES, AND BUILT-IN WORK IN CONCRETE ELEMENTS.

18. THE CONTRACTOR SHALL FURNISH, LOCATE AND INSTALL ALL ACCESSORIES FOR PROPER ANCHORAGE OF WOOD AND METAL FRAMING, WOOD BLOCKING, BRICK WORK AND MASONRY UNITS. HE SHALL BE SOLELY RESPONSIBLE FOR FURNISHING, LOCATING AND ENSURING PROPER QUANTITY OF ALL FASTENING DEVICES.

19. ALL CONCRETE TO REMAIN EXPOSED TO VIEW SHALL RECEIVE A SMOOTH RUBBED FINISH (SEE SPECIFICATIONS).

ALL CONCRETE CORNERS WITH BOTH SIDES EXPOSED TO VIEW SHALL BE SQUARE UNLESS OTHERWISE SHOWN OR NOTED. THE EDGE SHALL BE RUBBED, PRODUCING A SMOOTH, DENSE SURFACE WITHOUT PITS OR IRREGULARITIES.

PROVIDE CONTINUOUS VERTICAL DOVETAIL SLOTS AT 16 INCH CENTERS HORIZONTALLY FOR ALL CONCRETE WALLS ABUTTING A MASONRY WALL OR MASONRY VENEER, UNLESS OTHERWISE

PROVIDE CLEARANCE FROM EDGE OF REINFORCING TO EDGE OF CONCRETE AS FOLLOWS:

FOOTINGS (AGAINST EARTH)	3"
COLUMNS AND PIERS (VERTICAL REINFORCING)	2"
WALLS, INTERIOR FACE	3/4"
WALLS, EXTERIOR FACE (#5 AND SMALLER)	1 1/2"
WALLS, EXTERIOR FACE (#6 AND LARGER)	2"
SLABS (INTERIOR)	3/4"
SLABS (EXTERIOR)	1 1/2"
SLABS ON GRADE (W.W.F.)	1/3 X THK. FROM
OP SURFACE	

PROVIDE 2-#4 BARS IN TOP OF ALL CONCRETE BEAMS WITH STIRRUPS THAT DO NOT HAVE ANY OTHER TOP STEEL SPECIFIED.

24. NO SLEEVES, HOLES OR INSERTS SHALL BE PLACED IN SLABS WITHIN 2'-0" OF THE EDGE OF COLUMNS, OR ANYWHERE IN BEAMS, COLUMNS OR JOISTS WITHOUT APPROVAL OF THE ARCHITECT.

JOINTS NOT INDICATED ON THE DRAWINGS SHALL BE MADE SO AS TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE. THERE SHALL BE NO HORIZONTAL JOINTS IN BEAMS OR SUSPENDED

PROVIDE THE FOLLOWING AT OPENINGS IN ALL CONCRETE WALLS AND FRAMED SLABS, UNLESS OTHERWISE INDICATED:

> 1-#5 AT EACH FACE ON EACH SIDE OF OPENING, EXTENDING 2'-0" BEYOND OPENING. 1-#5 X 4'-0" LONG AT EACH FACE DIAGONALLY AT EACH CORNER.

REINFORCING STEEL SHOP DRAWINGS SHALL INDICATE THE SEQUENCE IN WHICH LAYERS OF CROSSING REINFORCING SHOULD BE PLACED, IN ORDER TO PRODUCE THE CORRECT OUTERMOST LAYER AS INDICATED ON THE DRAWINGS.

28. SHOP DRAWINGS SHALL INDICATE LOCATIONS OF ALL WALL CONTROL AND CONSTRUCTION JOINTS.

STRUCTURAL STEEL

MATERIALS:

STRUCTURAL STEEL ASTM A 36 ASTM A 992, GR.50 ALL W SHAPES STRUCTURAL STEEL TUBING ASTM A500, GRADE C STRUCTURAL STEEL PIPE ASTM A53, GRADE B ASTM A325 **ANCHOR BOLTS** ASTM F1554, GRADE 36 WELDING ELECTRODE ASTM E 70 WELDABLE REBAR ASTM A706, GRADE 60

1. DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO CURRENT AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATION. ALL REACTIONS SHOWN ON PLAN HAVE BEEN DEVELOPED USING ALLOWABLE STRESS DESIGN.

WELDING SHALL CONFORM TO THE CODE FOR "ARC AND GAS WELDING IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY.

3. ALL LOOSE BEAM LINTELS SHALL HAVE 8" MINIMUM BEARING. SEE ARCHITECTURAL JAMB DETAILS FOR LENGTHS.

 FOR MISCELLANEOUS STEEL REFER TO ARCHITECTURAL DRAWINGS. ALL WELDING SHALL BE DONE BY A CERTIFIED WELDER IN ACCORDANCE WITH A.W.S.

PROVIDE LEVELING NUTS FOR ALL COLUMN BASE PLATES WITH FOUR (4) ANCHOR BOLTS AND PROVIDE 1 1/2" MINIMUM, 5000 PSI NON-SHRINK GROUT. PROVIDE DOUBLE NUTS AND WASHER AT THE BOTTOM OF THE ANCHOR BOLT FOR EMBED IN CONCRETE.

CONNECTIONS:

CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE A.I.S.C. MANUAL OF STEEL CONSTRUCTION. CONNECTIONS SHALL BE PROVIDED TO CONFORM TO THE REQUIREMENTS OF TYPE 2 CONSTRUCTION UNLESS OTHERWISE DETAILED.

CONNECTIONS SHALL BE DESIGNED TO ACCOMMODATE THE REACTIONS SHOWN ON THE CONTRACT DOCUMENTS. IF NO REACTIONS ARE GIVEN THEN PROVIDE CONNECTION FOR ONE HALF THE ALLOWABLE UNIFORM LOAD BEAM TABLES, PER THE AISC MANUAL, FOR THE SPAN INDICATED ON THE DRAWINGS. MINIMUM CONNECTION DESIGN LOAD IS 6 KIPS.

MINIMUM CONNECTION ANGLE THICKNESS SHALL BE 5/16". MINIMUM SHEAR PLATE IS

IN ADDITION TO PROVIDING ADEQUATE BOLTS TO ACCOMMODATE REACTIONS, THE FOLLOWING MINIMUM NUMBER OF BOLT ROWS SHALL BE USED:

MEMBER DEPTH MINIMUM BOLT ROWS 10" or Less 12" to 14" 16" to 18" 21" to 24" 27' to 30" Over 30"

CONNECTIONS SHALL BE MADE USING 3/4" DIAMETER ASTM A325 BOLTS (SNUG TIGHT OR SLIP CRITICAL) OR WELDS, UNLESS NOTED OTHERWISE. IF TENSION CONTROL BOLTS ARE USED, CONNECTIONS SHALL BE DESIGNED FOR SLIP CRITICAL BOLT ALLOWABLE LOAD VALUES USING CLASS A FAYING SURFACE.

USE LARGER OF 1/4" FILLET WELDS OR MINIMUM SIZE PER AISC REQUIREMENTS WHERE NO WELD SIZE IS SHOWN ON DRAWINGS.

WELDS IN EXCESS OF 24" IN LENGTH SHALL BE 3" STITCH WELDS AT 8" ON CENTERS, UNLESS SPECIFICALLY SHOWN ON DRAWINGS TO BE CONTINUOUS. MOMENT CONNECTIONS SHALL BE DESIGNED TO DEVELOP FULL MOMENT CAPACITY

OF THE ELEMENTS CONNECTED, UNLESS SPECIFIC MOMENT IS INDICATED ON THE

NO WELDING OR FINAL BOLTING SHALL BE DONE UNTIL AS MUCH OF THE STRUCTURE THAT WILL BE STIFFENED THEREBY HAS BEEN PROPERLY ALIGNED.

9. SEQUENCE OF PLACING WELDS SHALL BE SUCH AS TO AVOID DISTORTION OF MEMBERS. 10. SUBSTITUTION OF STRUCTURAL STEEL MEMBERS IS PERMITTED TO FACILITATE DELIVERY AT NO ADDITIONAL COST TO THE OWNER. SUBSTITUTED MEMBERS MUST BE OF THE SAME NOMINAL

DEPTH AS THE MEMBER ORIGINALLY INDICATED AND HAVE A WEIGHT GREATER THAN THAT

INDICATED. BEAM FLANGES MUST NOT INFRINGE ON ADJACENT ARCHITECTURAL ELEMENTS.

11. WHERE MASONRY TIES ARE NOTED ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS. STEEL BEAMS AND COLUMNS ADJACENT TO MASONRY SHALL HAVE THE FOLLOWING MASONRY

> 16 GAGE GALVANIZED CHANNEL SLOTS, WELDED OR PNUEMATIC FASTENED, TO COLUMNS AND BEAMS WITH 1/4" GALVANIZED STRAP ANCHORS SPACED 1'-4" O.C. AT COLUMNS AND 1'-4" AT BEAMS (UNLESS OTHERWISE NOTED). INSTALL PER MANUFACTURER'S SPECIFICATIONS.

AT LOCATIONS WHERE THE STEEL IS SPRAY FIREPROOFED, THE ANCHOR SHALL EXTEND PAST THE THICKNESS OF FIREPROOFING. CONTRACTOR TO COORDINATE WITH ARCHITECTURAL DRAWINGS FOR SPRAY THICKNESS.

12. PROVIDE DEFORMED BAR ANCHORS ON THE TOP OF ALL BEAMS SUPPORTING CONCRETE MASONRY UNIT WALLS OR MULTI-WYTHE BRICK WALLS. THE ANCHORS SHALL BE WELDED AT 24" ON CENTER AND SHALL BE THE SAME SIZE AS THE WALL REINFORCING. DEFORMED BAR ANCHORS SHALL BE PLACED BY A TIMED STUD WELDING MACHINE.

13. STEEL MEMBERS SHOWN CONNECTED TO MASONRY WITH EXPANSION ANCHORS SHALL HAVE 3/4" DIAMETER EXPANSION ANCHORS AT 2'-8" ON CENTERS IN VERTICALLY SLOTTED HOLES, UNLESS OTHERWISE INDICATED.

14. BEAMS BEARING ON MASONRY SHALL HAVE ANGLE WALL ANCHORS WELDED TO THE BEAM, AS DETAILED IN THE A.I.S.C. MANUAL OF STEEL CONSTRUCTION.

15. PROVIDE 8" X 8" X 5/8" BEARING PLATES FOR ALL WALL BEARING BEAMS UNLESS NOTED OTHERWISE. ALL PLATES SHALL HAVE A MINIMUM OF (2)-3/4" DIAMETER X 5" LONG WELDED STUDS ON THE BOTTOM TO SET IN CONCRETE OR MASONRY WALLS.

16. SPRAY-ON FIREPROOFING SHALL BE APPLIED TO ALL STRUCTURAL STEEL TO ACHIEVE REQUIRED FIRE RATING, UNLESS OTHER PROTECTIVE COATING IS INDICATED ON THE ARCHITECTURAL

17. ALL STEEL MEMBERS EXPOSED TO WEATHER OR IN CONTACT WITH PRESSURE TREATED LUMBER OR WOOD PRODUCTS IN THE COMPLETED CONSTRUCTION SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123.

18. PROVIDE BITUMASTIC PROTECTION COATING FOR ALL STRUCTURAL STEEL BELOW GRADE. 19. EXISTING STEEL SURFACES TO RECEIVE FIELD WELDS SHALL BE THOROUGHLY CLEANED UNTIL FREE FROM PAINT, RUST, GREASE, ETC.

20. PROVIDE 1/4" CLOSURE PLATES WITH FULL SEAL WELDS FOR ALL TUBE OR PIPE HOLLOW STEEL SECTIONS, UNLESS OTHERWISE NOTED ON THE DRAWINGS.

CONTRACTOR IS RESPONSIBLE FOR PROVIDING NEW STEEL FRAMES, AS DETAILED ON THE STRUCTURAL DRAWINGS, AT ALL NEW FLOOR AND ROOF OPENINGS REQUIRED BY ARCHITECTURAL, MECHANICAL. PLUMBING AND ELECTRICAL DRAWINGS IN BOTH NEW AND EXISTING STRUCTURES. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE CONTRACT DOCUMENTS AND INCLUDE THESE FRAMES IN THEIR BID PRICE. THESE NEW STEEL FRAMES FOR OPENINGS ARE IN ADDITION TO THE FRAMES SPECIFICALLY INDICATED ON THE DRAWINGS FOR SPECIFIC SUPPORT CONDITIONS.

22. CONSTRUCTION MANAGER IS RESPONSIBLE TO COORDINATE THE MECHANICAL CURB DIMENSIONS FOR MECHANICAL EQUIPMENT BETWEEN THE MECHANICAL CONTRACTOR AND STRUCTURAL STEEL FABRICATOR. THE STRUCTURAL STEEL SHALL BE LOCATED ON THE CENTERLINE OF MECHANICAL CURB.

23. STEEL CONTRACTOR SHALL PROVIDE SKETCHES FOR ALL CORRECTIVE FIELD WORK WHICH SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR APPROVAL. ALL SKETCHES SHALL BE SIGNED AND SEALED BY THE STEEL FABRICATORS CONNECTIONS ENGINEER.

METAL ROOF DECK

MATERIALS:

TYPICAL METAL DECK SHALL BE 1 1/2" GALVANIZED WIDE RIB TYPE WITH NESTING SIDE SEAMS OF GAGE INDICATED ON THE DRAWINGS.

DECK SHALL CONFORM TO "BASIC DESIGN SPECIFICATION" AS ADOPTED BY THE STEEL DECK METAL ROOF DECK SHALL BE FURNISHED IN SHEET LENGTHS SUFFICIENT TO EXTEND OVER

FOUR SUPPORTS (3 SPANS) WHEREVER POSSIBLE. ATTACHMENT:

METAL DECK SHALL BE POWER ACTUATED FASTENED TO SUPPORTING STEEL WITH HILTI X-EDN19 OR EQUAL SPACED NOT MORE THAN 12" ON CENTER WITH A 36/4 FASTENING PATTERN, UNLESS OTHERWISE NOTED ON THE DRAWINGS.

SCREW METAL ROOF DECK TO STEEL MEMBERS PARALLEL TO SPAN OF DECK USING HILTI X-EDN19 FASTENERS SPACED AT 12" ON CENTER. WELDING OF THE ROOF DECK IS

INTERMEDIATE SIDE CONNECTIONS SHALL BE MADE WITH #10 SELF TAPPING SCREWS. THE MAXIMUM SPACING OF SIDE LAP CONNECTIONS SHALL BE 1'-6", WITH A MINIMUM OF (4) SCREWS PER SPAN. FOR 3" DECK USE A MINIMUM OF (8) SCREWS PER SPAN.

LONG SPAN ROOF DECK SHALL HAVE BUTTON PUNCHED SIDELAPS SPACED AT 3'-0" MAX.

NO NOT FASTEN ANY MECHANICAL PIPING OR DUCTWORK TO METAL ROOF DECK. ALL PIPING SHALL BE ATTACHED TO THE STRUCTURE OR UNISTRUT. MECHANICAL CONTRACTOR TO PROVIDE CALCULATIONS FOR ANY UNISTRUT DESIGN.

CONCRETE MASONRY MATERIALS:

HOLLOW LOAD BEARING UNITS: ASTM C 90

(NET AREA COMPRESSIVE STRENGTH OF CMU UNIT = 2000PSI) MORTAR: (TYPE S) ASTM C 270

SOLID LOAD BEARING UNITS: (GRADE N-I) ASTM C 145

(COMPRESSIVE STRENGTH OF MASONRY ASSEMBLY, f'm = 2000 PSI) GROUT FOR REINFORCED MASONRY: ASTM C 476 (COMPRESSIVE STRENGTH AT 28 DAYS = 2500 PSI) GROUT FOR REINFORCED MASONRY: ASTM C 476

CONCRETE BRICK: (GRADE N-I) ASTM C 55 WALLS INDICATED ON STRUCTURAL DRAWINGS ARE FOR REFERENCE ONLY. SEE ARCHITECTURAL DRAWINGS FOR LOCATION, THICKNESS AND COMPOSITION OF MASONRY

2. ALL EXTERIOR MASONRY WALLS SHALL CONTAIN THE FOLLOWING REINFORCING: 1-#5 VERTICAL BAR AT 32" ON CENTER.

FLOORS AND ROOFS, UNLESS OTHERWISE INDICATED.

2-#6 VERTICAL BARS AT BOTH SIDES OF DOOR, WINDOW AND MECHANICAL OPENINGS. 2-#5 HORIZONTAL BAR MINIMUM ABOVE AND BELOW ALL WINDOW AND MECHANICAL OPENINGS AND ABOVE ALL DOOR OPENINGS. PROVIDE ADDITIONAL BARS ABOVE

LINTEL SCHEDULE ON ARCHITECTURAL DRAWINGS. 2-#5 HORIZONTAL AT TOP OF ALL WALLS, AND AT BOND BEAMS CONNECTED TO

2-#6 VERTICAL BARS AT ENDS OF ALL WALLS. AND EACH SIDE OF CONTROL JOINTS. STANDARD LADUR TYPE DESIGN DUR-O-WAL HORIZONTAL REINFORCING @ 16" O.C.

DOORS, WINDOWS AND MECHANICAL OPENINGS AS REQUIRED IN ACCORDANCE WITH

VERTICAL. SIDE WIRE SIZE SHALL BE #9 GAGE WIRE. INTERIOR SHEAR WALLS, WHERE INDICATED, SHALL HAVE SAME REINFORCING AS EXTERIOR 4. ALL OTHER INTERIOR MASONRY WALLS SHALL CONTAIN THE FOLLOWING MINIMUM REINFORCING: 1-#4 VERTICAL BAR AT 48" ON CENTER.

1-#4 HORIZONTAL BAR MINIMUM ABOVE AND BELOW ALL WINDOW AND MECHANICAL OPENINGS AND ABOVE ALL DOOR OPENINGS. PROVIDE ADDITIONAL BARS ABOVE DOORS, WINDOWS AND MECHANICAL OPENINGS AS REQUIRED IN ACCORDANCE WITH LINTEL SCHEDULE ON ARCHITECTURAL DRAWINGS.

1-#4 VERTICAL AND HORIZONTAL AT ALL SIDES OF DOORS, WINDOW AND MECHANICAL OPENINGS.

1-#4 VERTICAL AT ENDS OF ALL WALLS, AND EACH SIDE OF CONTROL JOINTS.

1-#4 HORIZONTAL AT TOP OF ALL WALLS.

1-#4 HORIZONTAL IN BOND BEAMS CONNECTED TO FLOORS AND ROOFS

STANDARD LADUR TYPE DESIGN DUR-O-WAL HORIZONTAL REINFORCING @ 16" O.C. VERTICAL. SIDE WIRE SIZE SHALL BE #9 GAGE WIRE.

5. PROVIDE VERTICAL DOWELS FROM CONCRETE WALLS INTO ALL CMU WALLS. SIZE AND SPACING OF THE DOWELS SHALL MATCH THE VERTICAL REINFORCING AS SPECIFIED IN THESE GENERAL NOTES, UNLESS OTHERWISE NOTED ON THE DRAWINGS. DOWEL LENGTHS SHALL BE THE REQUIRED CONCRETE DEVELOPMENT LENGTH PLUS THE REQUIRED BAR LAP SPLICE LENGTH FOR MASONRY AS SPECIFIED IN THESE GENERAL NOTES.

6. ALL VERTICAL WALL REINFORCING SHALL BE CONTINUOUS FOR THE FULL HEIGHT OF MASONRY WALLS, INCLUDING THROUGH CONTINUOUS MASONRY BOND BEAMS UNLESS OTHERWISE INDICATED.

ALL GROUTING OF MASONRY WALLS SHALL BE ASSUMED TO BE COMPLETED BY LOW LIFT GROUTING METHODS. IF THE CONTRACTOR PROPOSES TO UTILIZE HIGH LIFT GROUTING METHODS THEY SHALL SUBMIT THEIR PROPOSED HIGH LIFT GROUTING PROCEDURE FOR REVIEW PRIOR TO STARTING ANY GROUTING ON THE PROJECT SITE.

8. REINFORCING ABOVE WINDOWS, DOORS AND MECHANICAL OPENINGS IN THE EXTERIOR WALLS SHALL BE IN A BOND BEAM COURSE ABOVE THE STEEL LINTELS PROVIDED AT THESE OPENINGS. BOND BEAMS SHALL EXTEND 2'-0" BEYOND THE OPENING.

9. CELLS CONTAINING REINFORCING BARS AND ALL CELLS BELOW GRADE SHALL BE GROUTED SOLID. ALL OTHER CELLS SHALL REMAIN HOLLOW EXCEPT WHERE NOTED. THE CONTRACTOR SHALL NOT RUN CONDUIT OR PIPE IN CELLS CONTAINING BEINFORCING

10. ALL BOLTS OR ANCHORS SHALL BE SOLIDLY EMBEDDED IN MORTAR OR GROUT. IF BOND BEAM IS NOT LOCATED AT BOLT OR ANCHOR ELEVATION, PROVIDE LATH AND FILL CELL LOCALLY TO PROVIDE SUBSTRATE FOR BOLT OR ANCHOR. GROUT CELL ABOVE ALL MASONRY ANCHORS.

11. ALL COLUMNS WITHIN SHEAR WALLS AND EXTERIOR WALLS SHALL BE SOLIDLY EMBEDDED IN GROUT.

NEW OR EXISTING CORE. 13. GROUT SOLID MASONRY FOR TWO COURSES BELOW EACH BEAM BEARING EXCEPT AS NOTED.

12. GROUT SOLID MASONRY FOR FULL HEIGHT OF WALL BELOW EACH LOOSE LINTEL AND PROVIDE #4 VERTICAL IN

14. USE 1 COURSE (8") OF SOLID MASONRY OR GROUTED SOLID MASONRY BELOW EACH STEEL JOIST BEARING EXCEPT AS NOTED.

15. PROVIDE CONTINUOUS GROUTED BOND BEAM WHERE MASONRY ANCHORS CONNECT CONCRETE MASONRY TO STEEL FRAMING. GROUT CELL ABOVE ANCHOR. 16. HOLLOW UNITS SHALL BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS,

EXCEPT THAT WEBS SHALL ALSO BE BEDDED IN ALL COURSES OF BEARING AND SHEAR WALLS, PIERS, COLUMNS AND

PILASTERS, AND IN THE STARTING COURSE ON FOOTINGS AND SOLID FOUNDATION WALLS, AND WHERE ADJACENT TO CELLS OR CAVITIES WHICH ARE TO BE REINFORCED AND/OR FILLED WITH GROUT.

17. MORTAR PROTRUSIONS EXTENDING INTO CELLS OR CAVITIES TO BE REINFORCED AND/OR GROUTED SHALL BE 18. ALL MASONRY WALLS SHALL BE BRACED AT THE TOP WHERE MASONRY ENDS AT THE UNDERSIDE OF FLOOR OR

ROOF CONSTRUCTION. REFER TO TYPICAL DETAILS. 19. ALL MASONRY WALLS THAT DO NOT EXTEND TO BOTTOM OF FLOOR OR ROOF STRUCTURE ABOVE SHALL BE BRACED AT THE TOP, UNLESS BRACED HORIZONTALLY BY COLUMNS OR INTERSECTING WALLS AT A MAXIMUM SPACING OF 11 FEET FOR 4" WALLS, 17 FEET FOR 6" WALLS, 23 FEET FOR 8" WALLS, AND 33 FEET FOR 12" WALLS. THE ENDS OF THE WALLS MUST BE ANCHORED TO INTERSECTING WALLS BY EITHER TOOTHING OR MECHANICAL ANCHORS. THERE SHALL BE NO VERTICAL CONTROL JOINTS WITHIN THE HORIZONTAL SPAN OF THE WALL BETWEEN THE INTERSECTING

20. IN MASONRY WALLS, NO CHASES, RISERS, CONDUITS, OR TOOTHING OF MASONRY SHALL OCCUR WITHIN 17" OF CENTERLINE OF BEAM BEARING OR LOAD CONCENTRATION.

21. PIERS: 1. IF NOT SPECIFICALLY INDICATED, CONSTRUCT PIERS USING SAME MASONRY AS THAT IN WALL.

BOND PIERS INTO ADJACENT WALLS USING PIER MASONRY MATERIAL FOR TOOTHING.

22. SOLID UNITS SHALL BE LAID WITH FULL HEAD AND BED JOINTS. 23. COLLAR (VERTICAL LONGITUDINAL) JOINTS BETWEEN THE FACING AND BACKING WYTHES IN WALLS SHALL BE

24. ALL INTERSECTING LOAD BEARING WALLS SHALL BE TIED TOGETHER IN MASONRY BOND UNLESS NOTED OTHERWISE.

25. MINIMUM DEVELOPMENT LENGTH AND SPLICE LENGTH OF MASONRY REINFORCING SHALL BE AS FOLLOWS:

1.	BAR SIZE	DEVELOPMENT LENGTH	SPLICE LENGTH
2.	JOINT REINFORCING	9"	12"
3.	#4	18"	24"
4.	#5	25"	30"
5.	#6	27"	36"
6	# 7	32"	42"

COMPLETELY FILLED WITH MORTAR OR GROUT AND WORKED IN WITH A TROWEL.

26. IF EPOXY COATED REINFORCING IS SPECIFIED IN THE MASONRY SPECIFICATIONS, THEN ALL SPLICE LENGTHS SHALL BE INCREASED BY 50% PER THE ACI 530 MASONRY CODE.

27. SUBMIT SHOP DRAWINGS INDICATING THE PLACEMENT OF ALL REINFORCING REQUIRED IN MASONRY WALLS. REFER TO SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS. SHOP DRAWINGS SHALL INDICATE THE LOCATION OF ALL CONTROL JOINTS, AND THE REQUIRED LAP SPLICES FOR ALL REINFORCING.

28. SUBMIT SHOP DRAWINGS INDICATING THE PLACEMENT OF TOP OF WALL PARTITION ANCHORS AT ALL INTERIOR

CMU WALLS. COORDINATE LOCATIONS WITH ARCHITECTURAL DRAWINGS. 29. PROVIDE MASONRY CONTROL JOINTS AT A MAXIMUM SPACING OF 30 FEET ON CENTER. PROVIDE CONTROL JOINTS BETWEEN MAIN AND INTERSECTING WALLS, AT CHANGES IN WALL HEIGHT, CHANGES IN WALL THICKNESS AND

NO GREATER THAN 4'-0" FROM CORNERS. 30. PROVIDE AN ELEVATOR HOIST BEAM AT EACH ELEVATOR. THE BEAM SHALL BE A W8X21 MINIMUM. COORDINATE WITH THE ARCHITECTURAL DRAWINGS. THE BEARING PLATE ON MASONRY WALLS SHALL BE A PLATE 3/4"X6"X12" MINIMUM WITH (2)-3/4" DIAMETER ANCHOR BOLTS SET INTO GROUTED MASONRY.

COLD FORMED LIGHT GAGE METAL FRAMING 1. LIGHT GAGE COLD FORMED METAL FRAMING SHOP DRAWINGS SHALL BEAR THE PROFESSIONAL SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN CONNECTICUT, AND SHALL BE ACCOMPANIED BY STRUCTURAL CALCULATIONS AND ASSUMPTIONS. LOADING SHALL CONFORM TO THE TABULATED UNIFORM LOADING.

PERFORMANCE OF THIS WORK. INDICATE HOW DESIGN REQUIREMENTS FOR LOADING AND OTHER PERFORMANCE CRITERIA HAVE BEEN SATISFIED. PROVIDE CALCULATIONS SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF CONNECTICUT. SYSTEM COMPONENTS: MANUFACTURER'S STANDARD LOAD BEARING STUDS AND JOISTS OF TYPE SIZE AND

CALCULATIONS: PROVIDE PROFESSIONALLY PREPARED CALCULATIONS AND CERTIFICATION OF THE

METAL FRAMING COMPONENTS INDICATED ON THESE DRAWINGS HAVE BEEN BASED ON COMPONENTS MANUFACTURED BY MARINO\WARE. MATERIALS AND FINISHES: FOR 16 GAGE AND HEAVIER UNITS, FABRICATE METAL FRAMING COMPONENTS OF

GAGE INDICATED, AND AS REQUIRED TO SATISFY THE DESIGN LOADS. THE DESIGN OF THE COLD FORMED LIGHT GAGE

4. PROVIDE GALVANIZED FINISH TO METAL FRAMING COMPONENTS COMPLYING WITH ASTM A924 FOR MINIMUM G60 COATING.

STRUCTURAL QUALITY STEEL SHEET WITH A MINIMUM YIELD OF 50,000 PSI: ASTM A653.

5. FASTENERS: PROVIDE NUTS, BOLTS, WASHERS, SCREWS AND OTHER FASTENERS WITH CORROSION-RESISTANT

ELECTRODES FOR WELDING: COMPLY WITH AWS CODE AND AS RECOMMENDED BY STUD MANUFACTURER.

FINISH OF INSTALLATION ACCESSORIES TO MATCH THAT OF FRAMING COMPONENTS.

GALVANIZING REPAIR: WHERE GALVANIZED SURFACES ARE DAMAGED BY WELDING OR CONSTRUCTION ACTIVITIES, PREPARE SURFACES AND REPAIR IN ACCORDANCE WITH PROCEDURES SPECIFIED IN ASTM A780. 8. COLD FORMED LIGHT GAGE METAL FRAMING COMPONENTS INDICATED ON THE DRAWINGS SHALL HAVE THE MINIMUM FLANGE WIDTH BASED ON THE DESIGNATION INDICATED ON THE DRAWINGS AS FOLLOWS:

DESIGNATION FLANGE WIDTH 2 1/2" 3 1/2"

GENERAL NOTES

Drawing Number: May 29, 2020 1/8" = 1'-0" Drawn By: Project Number:

15 Hinsdale Ave.

Hinsdale School Alterations

Michael Horton Associates Inc. Consulting Structural Engineers 151 Meadow Street Branford, Connecticut 06405 (203) 481-8600 www.mha-eng.com

SILVER / PETRUCELLI + ASSOCIATES Architects / Engineers / Interior Designers

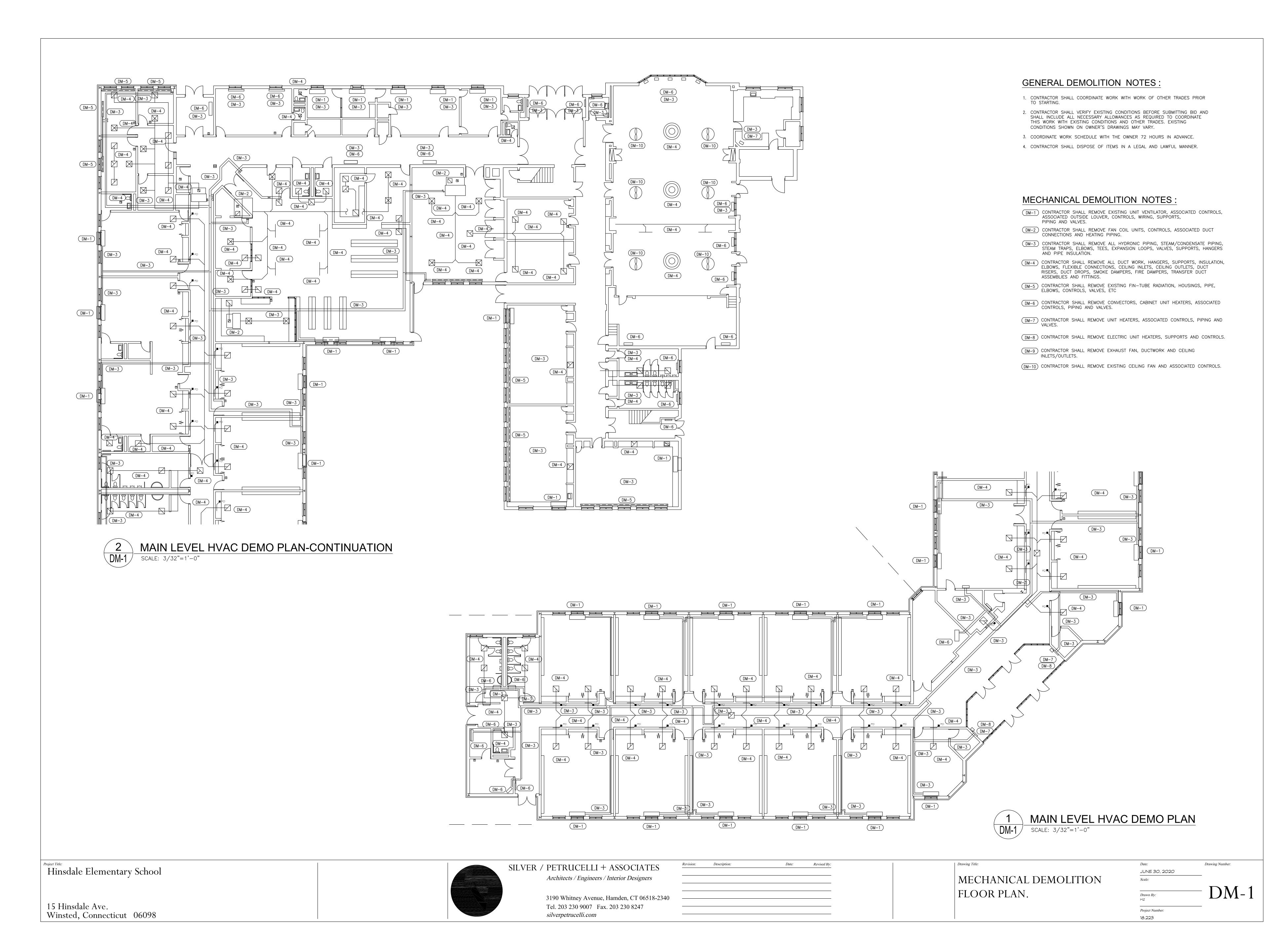
> 3190 Whitney Avenue, Hamden, CT 06518-2340 Tel. 203 230 9007 Fax. 203 230 8247 silverpetrucelli.com

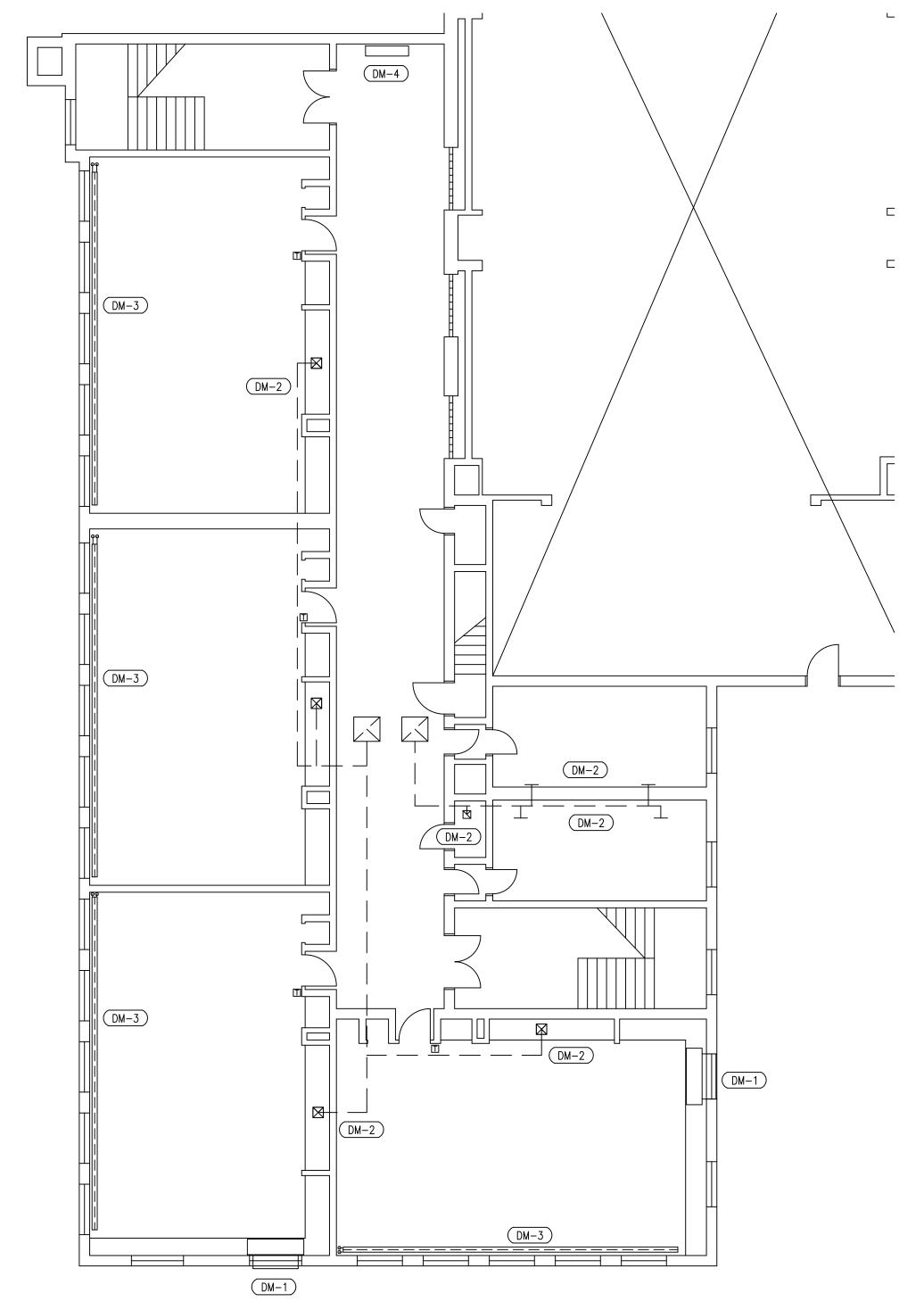
Revised By:

State Project #: 162-0043RNV

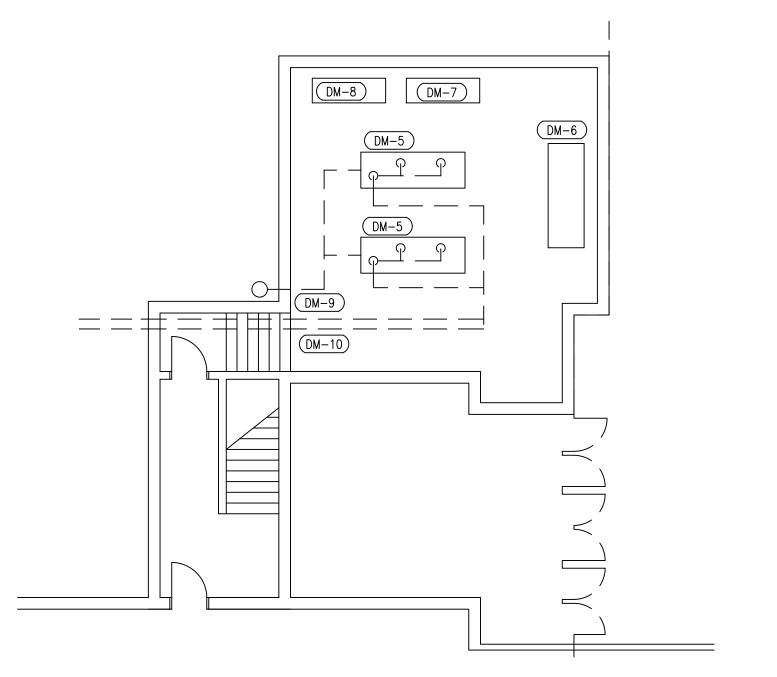
NOT FOR CONSTRUCTION

Winsted, CT 06098





2 2ND FLOOR HVAC DEMOLITION PLAN SCALE: 1/8"=1'-0"





Project Title:
Hinsdale Elementary School

Winsted, Connecticut 06098

15 Hinsdale Ave.



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MECHANICAL DEMOLITION Date: Revised By: 2nd FLOOR PLAN AND PLAN

Drawing Number: JUNE 30, 2020 Scale: DM-2Project Number:

18.223

LOWER LEVEL BOILER ROOM

GENERAL DEMOLITION NOTES:

CONDITIONS SHOWN ON OWNER'S DRAWINGS MAY VARY.

MECHANICAL DEMOLITION NOTES:

PIPING AND VALVES.

SUPPORTS, PIPING, ETC.

DUCT ASSEMBLIES AND FITTINGS.

PUMPS, SUPPORTS, PIPING, CONTROLS, ETC.

1. CONTRACTOR SHALL COORDINATE WORK WITH WORK OF OTHER TRADES PRIOR

2. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS BEFORE SUBMITTING BID AND SHALL INCLUDE ALL NECESSARY ALLOWANCES AS REQUIRED TO COORDINATE THIS WORK WITH EXISTING CONDITIONS AND OTHER TRADES. EXISTING

3. COORDINATE WORK SCHEDULE WITH THE OWNER 72 HOURS IN ADVANCE.

4. CONTRACTOR SHALL DISPOSE OF ITEMS IN A LEGAL AND LAWFUL MANNER.

DM-1 CONTRACTOR SHALL REMOVE EXISTING UNIT VENTILATOR, ASSOCIATED CONTROLS, ASSOCIATED OUTSIDE LOUVER, CONTROLS, WIRING, SUPPORTS,

DM-2 CONTRACTOR SHALL REMOVE ALL DUCT WORK, HANGERS, SUPPORTS, INSULATION, ELBOWS, FLEXIBLE CONNECTIONS, CEILING INLETS, CEILING OUTLETS, DUCT RISERS, DUCT DROPS, CONTROLS, SMOKE DAMPERS, FIRE DAMPERS, TRANSFER

DM-3 CONTRACTOR SHALL REMOVE EXISTING FIN-TUBE RADIATION, HOUSINGS, PIPE, ELBOWS, SUPPORTS, CONTROLS, VALVES, ETC

DM-4 CONTRACTOR SHALL REMOVE CONVECTORS, CABINET UNIT HEATERS, ASSOCIATED CONTROLS, SUPPORTS, PIPING, VALVES, ETC.

DM-5 CONTRACTOR SHALL REMOVE EXISTING STEAM BOILERS, SUPPORT, ASSOCIATED PIPING, VALVES, CONTROLS, ETC.

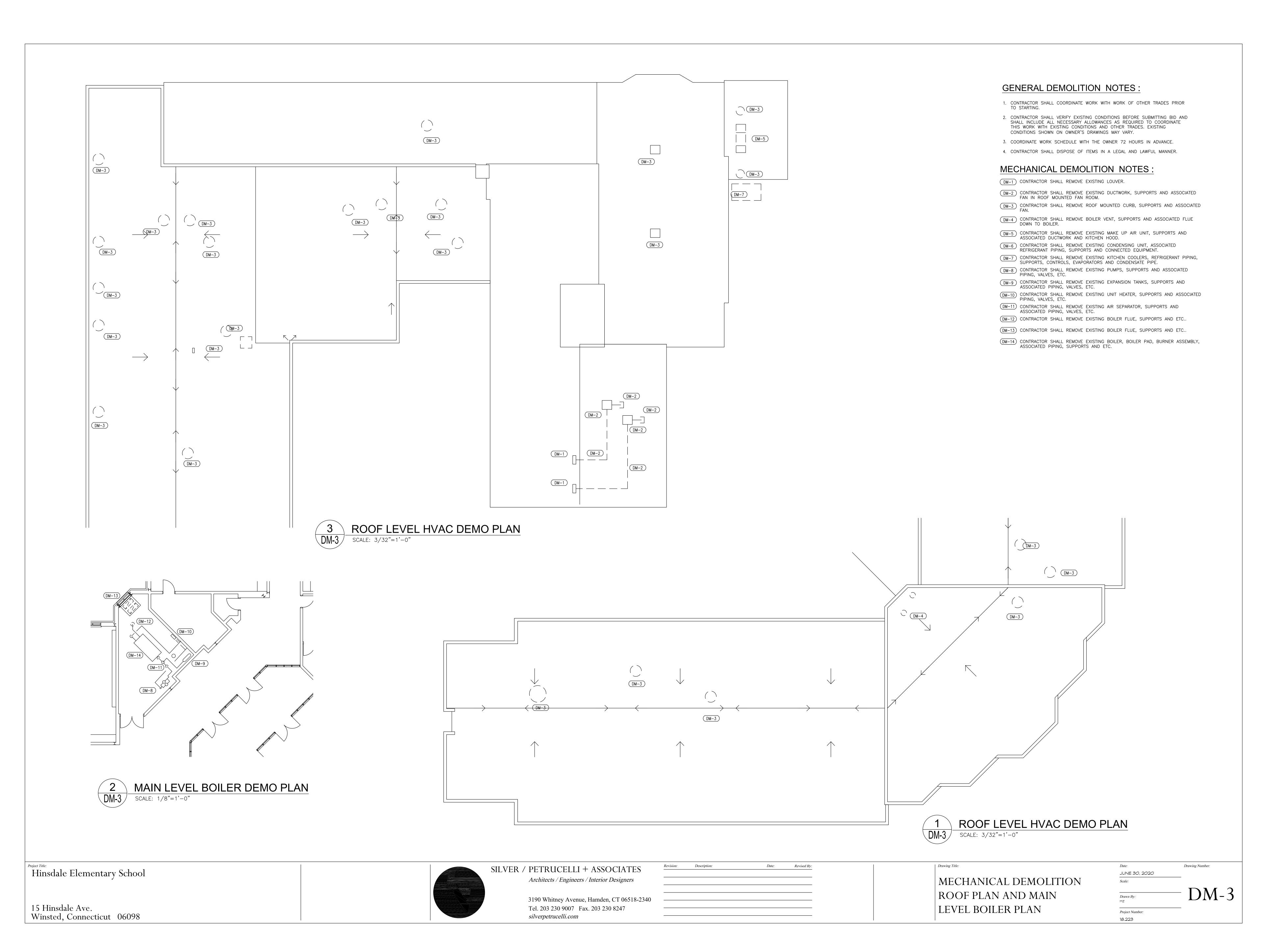
DM-7 CONTRACTOR SHALL REMOVE EXISTING STEAM/HOT WATER HEAT EXCHANGER, SUPPORTS, ASSOCIATED PUMPS, PIPING, CONTROLS, ETC.

DM-8 CONTRACTOR SHALL REMOVE THE EXISTING OVERHEAD AIR EXPANSION TANK,

DM-9 CONTRACTOR SHALL REMOVE, IN ITS ENTIRETY, THE EXISTING BREECHING, INSULATION, THIMBLE, ELBOWS, SUPPORTS, ETC.

DM-10) CONTRACTOR SHALL REMOVE THE EXISTING PIPE, INSULATION, SUPPORTS, ETC. EXISTING PIPING IN TUNNEL SHALL REMAIN AND CAPPED AS REQUIRED.

DM-6 CONTRACTOR SHALL REMOVE EXISTING CONDENSATE RECEIVER TANK, ASSOCIATED



(NOT ALL SYMBOLS ARE USED) (###) FΑ FACE AREA NORMALLY OPEN CFM ABV ABOVE FB0 FURNISHED BY OTHERS NTS NOT TO SCALE AC AIR COMPRESSOR INSTALLED BY HVAC SUBCONTRACTOR OUTSIDE AIR ACU-# AIR CONDITIONING UNIT FORWARD CURVE OAT OUTDOOR AIR TEMPERATURE AD FCU FAN COIL UNIT OAI OUTDOOR AIR INTAKE ACCESS DOOR FIRE DAMPER WITH ACCESS DOOR OBD OPPOSED BLADE DAMPER AFC ADJUSTABLE FREQUENCY CONTROLLER FINAL FILTER OUTSIDE DIMENSION AFF ABOVE FINISHED FLOOR FIB0 FURNISHED AND INSTALLED BY OTHERS O.E. T.D. OPEN END TRANSFER DUCT AFMS AIR FLOW MEASURING STATION FIN FL FINISH FLOOR P-# PUMP AHU-# AIR HANDLING UNIT PUSH BUTTON ACOUSTIC LINING FULL LOAD AMPERES PBD PARALLEL BLADE DAMPER ALD AUTOMATIC LOUVER DAMPER FLEX FLEXIBLE PRESSURE DROP APD AIR PRESSURE DROP FINS PER FOOT PREFILTER AUTO AUTOMATIC FPV FAN POWERED VAV BOX PHASE B-# BOILER PREHEAT COIL BACKWARD CURVED F.T. FLOAT & THERMOSTATIC TRAP PPH POUND PER HOUR BD BELT DRIVE FTR FIN TUBE RADIATION PRESSURE REDUCING VALVE BMCS BUILDING MANAGEMENT & CONTROL SYSTEM FV FACE VELOCITY POUND PER SQUARE INCH IBT INVERTED BUCKET TRAP GENERAL CONTRACTOR RETURN AIR BTU BRITISH THERMAL UNIT GIH GRAVITY INTAKE HOOD RAF-# RETURN AIR FAN C-# GPH GALLONS PER HOUR RAT RETURN AIR TEMPERATURE CHILLER CAP CAPACITY GPM GALLONS PER MINUTE REG REGISTER CB-# GEOTHERMAL WATER LOOP SUPPLY RELATIVE HUMIDITY CHILLED BEAM GWLR GEOTHERMAL WATER LOOP RETURN CC-# COOLING COIL RHC REHEAT COIL CD CEILING DIFFUSER H/C HEATING/COOLING RM ROOM CFM CUBIC FEET PER MINUTE H-# HUMIDIFIER RADIANT PANEL CG CEILING GRILLE H-O-AHAND-OFF-AUTOMATIC RPM REVOLUTIONS PER MINUTE CLG CEILING HC-# HEATING COIL RISE CONV-# HOT WATER CONVECTOR FEET OF HEAD RTU-# ROOFTOP AIR CONDITIONING UNIT CONDENSATE RECEIVER/PUMPING SYSTEM CP HORSEPOWER SUPPLY AIR CR CEILING REGISTER HTG HEATING SUPPLY AIR FAN CT-# COOLING TOWER HTR HEATER SUPPLY AIR TEMPERATURE CTD CEILING TRANSFER DUCT HEATING AND VENTILATING UNIT SECURITY BARS CUH-# CABINET UNIT HEATER HOT WATER HEATING, VENTILATING & VSC VERTICAL SPLIT CASE CV CONTROL VALVE AIR CONDITIONING HSC HORIZONTAL SPLIT CASE CW COLD WATER HEAT EXCHANGER CONVERTOR SMOKE DAMPER D&T DRIP AND TRAP INSIDE DIMENSION SUPPLY GRILLE **DECIBELS** INCHES STATIC PRESSURE DB DRY BULB INLET GUIDE VANES SQ FT SQUARE FOOT (AREA) DD DIRECT DRIVE SINGLE POLE SWITCH DDC DIRECT DIGITAL CONTROL KELADWWAGTA HRO TEMPERATURE W/THERMAL OVERLOAD DIFF DIFFUSER LD LINEAR DIFFUSER SIDE WALL REGISTER DN DOWN LOCKED ROTOR AMPERES TEMPERATURE DIFFERENCE DEDICATED OUTDOOR AIR SYSTEM DOAS LPR LOW PRESSURE RETURN TEMPERATURE LOW PRESSURE SUPPLY AIR TRANSFER GRILLE LPS DEWPOINT TEMPERATURE TOTAL DR DROP DTWS DUAL TEMPERATURE WATER SUPPLY LEAVING WATER TEMPERATURE TN-HR TON HOUR REFRIGERATION LWT DUAL TEMPERATURE WATER RETURN DTWR MAN TRANSFER DUCT MANUAL MIXED AIR TEMPERATURE THERMOSTATIC TRAP MAXIMUM TYPICAL EF-# EXHAUST FAN UNDERCUT DOOR 1000 BTU'S EAT ENTERING AIR TEMPERATURE MINIMUM CIRCUIT AMPACITY UH-# UNIT HEATER HOT WATER EER ENERGY EFFICIENCY RATIO MOTORIZED DAMPER UNIT VENTILATOR EG EXHAUST GRILLE MECHANICAL EQUIPMENT ROOM VARIABLE AIR VOLUME VAV-# EHC-# ELECTRIC HEATING COIL MEZZ MEZZANINE VOLUME DAMPER ENT MFS MAXIMUM FUSE SIZE VOLUME EXTRACTOR HEPA HIGH EFFICIENCY PARTICULATE FILTER MIN VARIABLE FREQUENCY DRIVE MINIMUM MOTOR VIBRATION ISOLATOR ES END SUCTION MAKE-UP AIR VSF VARIABLE SPEED FAN SWITCH ESP EXTERNAL STATIC PRESSURE MOTORIZED VALVE WITH ET-# EXPANSION TANK WET BULB NORMALLY CLOSED EUH-# ELECTRIC UNIT HEATER NOISE CRITERIA WATER FLOW MEASURING STATION WFM ENTERING WATER TEMPERATURE NFA NET FREE AREA WMS WIRE MESH SCREEN EXT EX EXISTING NOT IN THIS CONTRACT WATER PRESSURE DROP

ABBREVIATIONS

			YMBOL LEGEND ot all symbols are used)		
T	PRESSURE/TEMPERATURE PORT		PIPE UNION		MECHANICAL NOTE REFERENCE, NUMBER INDICATES NOTE
Ţ	TEMPERATURE GAUGE/ TEMPERATURE INDICATOR	AV	AIR VENT, AUTOMATIC	- C _F	CUBIC FEET PER MINUTE
9	PRESSURE GAUGE	<u> </u>	AIR VENT, MANUAL	V (1)[>	DUCT STATIC PRESSURE
4[-	BUTTERFLY VALVE	OR —	PUMP OR FAN	VD	VOLUME DAMPER
->>-	SHUT-OFF VALVE	├	STRAINER	BD	BACKDRAFT DAMPER
	ANGLE GATE VALVE	T.	STRAINER, BLOW OFF	SPS)	DUCT STATIC PRESSURE SENSOR
->>-	GLOBE VALVE	← ∐	1" DOOR UNDERCUT	MD	MOTORIZED DAMPER
- • -	BALL OR BUTTERFLY VALVE		RETURN GRILLE	\boxtimes	SUPPLY OR OUTSIDE AIR DUCT UP OR CSD
₽ -	ANGLE GLOBE VALVE	T	THERMOSTAT OR SPACE TEMPERATURE SENSOR	$[\times]$	SUPPLY OR OUTSIDE AIR DUCT DOWN
	TWO WAY MOTORIZED CONTROL VALVE	P	PRESSURE SENSOR		RETURN OR EXHAUST DUCT UP OR CRG/CRR
	THREE WAY MOTORIZED CONTROL VALVE		DIRECTION OF FLOW		RETURN OR EXHAUST DUCT DOWN
1	CHECK VALVE		METER	FC FC	FLEXIBLE CONNECTION
	OS & Y	DIA. OR Ø	DIAMETER		DUCT TRANSITION
‡h	SAFETY RELIEF VALVE (PRESS. & TEMP.)	OR	THERMOMETER		RECTANGULAR TO ROUND TRANSITION
	DRAIN VALVE W/ HOSE COUPLING W/CAP	-0-	PIPE TEE, OUTLET UP	├ → ├	DUCT WORK, DIRECTION OF FLOW
	CAP	- \$-	PIPE ELBOW, TURNED UP		POSITIVE PRESSURE DUCT
-	PIPE CONNECTION BOTTOM	+ + + +	PIPE TEE, OUTLET DOWN		NEGATIVE PRESSURE DUCT
	PIPE CONNECTION TOP	HWS	HOT WATER SUPPLY	₹ I → I † R	CHANGE OF ELEVATION, RISE (R) DROP (D)
-	PIPE COUPLING (JOINT)	HWR	HOT WATER RETURN		LINED DUCT WORK
	ELBOW, 90°	cws	CONDENSER WATER SUPPLY	}	SINGLE LINE LINED DUCT WORK
C	PIPE ELBOW, TURNED DOWN	CWR	CONDENSER WATER RETURN		DIRECTION OF SUPPLY OR OUTSIDE AIR
	PIPE TEE	•	POINT OF CONNECTION		DIRECTION OF RETURN OR EXHAUST AIR
— <u>o</u> —	CALIBRATED BALANCING VALVE		RETURN OR EXHAUST DUCT		AIR TERMINAL UNIT
Н	HUMIDISTAT/HUMIDITY SENS	or 🛮 🛇	SUPPLY OR OUTSIDE AIR DUCT UP	(\$)	DUCT SMOKE DETECTOR
H	DUCT MOUNTED HUMIDITY SENSOR	SD	SMOKE DAMPER	FD	FIRE DAMPER WITH ACCESS DOOR AS REQUIRED
CO2	DUCT MOUNTED CARBON DIOXIDE SENSOR	FSD	COMBINATION FIRE AND SMOKE DAMPER		DUCT ACCESS DOOR
—— HWS ——	HOT WATER SUPPLY	—— 45 CHWS——	45°F CHILLED WATER SYSTEM SUPPLY	—— 57 CHWS——	57°F CHILLED WATER SYSTEM SUPPLY
	HOT WATER RETURN	45 CHWR	45°F CHILLED WATER SYSTEM RETURN	— 57 CHWR—	57°F CHILLED WATER SYSTEM RETURN
X	PIPE ANCHOR		PIPE GUIDE		

WEIGHT (LBS)

ZONE DAMPER

- 1. UNLESS OTHERWISE NOTED, ALL PIPING IS OVERHEAD, TIGHT TO UNDERSIDE OF STRUCTURE OR SLAB, WITH SPACE FOR INSULATION.
- 2. INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES AND OTHER APPURTENANCES REQUIRING ACCESS ARE
- 3. UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN BYPASSES AND IN LONG PIPING RUNS (100 FEET OR MORE) TO PERMIT DISASSEMBLY FOR ALTERATION AND REPAIRS.
- 4. ALL PIPING WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- 5. PROVIDE FLEXIBLE CONNECTIONS IN ALL PIPING SYSTEMS CONNECTED TO PUMPS AND OTHER EQUIPMENT WHICH REQUIRED VIBRATION ISOLATION, EXCEPT WATER COILS. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AS CLOSE TO THE EQUIPMENT AS
- 6. ALL PENETRATIONS THRU RATED WALLS, FLOORS & CEILINGS SHALL BE SEALED USING U.L. LISTED METHODS APPROPRIATE FOR
- 7. PROVIDE SWING JOINTS AT ALL BRANCH CONNECTIONS TO WATER SUPPLY AND RETURN. PROVIDE ISOLATION VALVES AT ALL BRANCH CONNECTIONS..

Revision: Description:

Date: Revised By:

- 8. PROVIDE AIR VENTS AT ALL HIGH POINTS.
- 9. INSTALL DRAIN VALVES WITH HOSE CONNECTION AT ALL LOW POINTS. 10. PROVIDE HOSE END CAPS WITH CHAIN ON ALL DRAIN VALVES.

GENERAL

- 1. THE INTENT OF THESE CONTRACT DOCUMENTS IS FOR THE CONTRACTOR TO FURNISH AND INSTALL COMPLETE MECHANICAL SYSTEMS. THESE MECHANICAL SYSTEMS INCLUDE HVAC AND ALL ASSOCIATED SPECIAL SYSTEMS. ALL SYSTEMS SHALL BE COMPLETE IN ALL RESPECTS. OPERATING, TESTED, ADJUSTED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY THE OWNER.
- THE CONTRACTOR SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS, INCLUDING PROJECT MANUAL, PLANS AND 2. SPECIFICATIONS OF ALL TRADES BEFORE SUBMITTING BID. REFER TO SPECIFICATIONS, PROJECT MANUAL AND PLANS. NCLUDING ALL EQUIPMENT SCHEDULES FOR MECHANICAL AND ELECTRICAL INFORMATION. CONTRACTOR SHALL WALK THROUGH BUILDING PRIOR TO SUBMITTING BID.
- ALL OF THE CONTRACT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY TO FORM A TOTAL DESIGN PACKAGE. 3. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER TO DETERMINE WHICH TRADE CONTRACTOR IS RESPONSIBLE FOR VARIOUS PORTIONS OF THE WORK.
- ALL WORK AND ACTION DEPICTED AND DESCRIBED SHALL BE PERFORMED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.
- PROVIDE SUPPORT/BRACING OF EQUIPMENT AND BUILDING SERVICES FOR SEISMIC RESTRAINT AS REQUIRED BY CODE.
- OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
- ALL EQUIPMENT, MATERIALS AND RELATED SYSTEMS COMPONENTS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE.
- REPAIR AND/OR REPLACE AT NO COST TO OWNER ALL EQUIPMENT, BUILDING ELEMENTS, TREES SHRUBS, ETC AND MATERIALS 8. DAMAGED DURING CONSTRUCTION.
- 9. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF EQUIPMENT WITH ALL TRADES BEFORE STARTING CONSTRUCTION. ANY MODIFICATIONS
- TO THE EQUIPMENT LAYOUT REQUIRED FOR INSTALLATION ARE TO BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER. 10. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION OF LIGHT FIXTURES AND MOUNTING HEIGHTS OF EQUIPMENT. INCLUSIVE OF RECEPTACLES, SWITCHES, THERMOSTATS, ETC. ALL SUCH EQUIPMENT AND COLORS SHALL BE COORDINATED WITH THE ARCHITECT. CONTACT
- ARCHITECT FOR CLARIFICATION OF MOUNTING REQUIREMENTS, IF INFORMATION IS NOT CONTAINED IN THE DRAWINGS. 11. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE APPLICABLE CODES IN THE ORDINANCES AND THE REGULATORY AGENCIES HAVING
- 12. ALL EQUIPMENT SHALL BE LOCATED IN ACCESSIBLE LOCATIONS. WHEN A PIECE OF EQUIPMENT MUST BE LOCATED ABOVE AN INACCESSIBLE CEILING OR WALL THEN THE APPROPRIATE ACCESS DOOR SHALL BE PROVIDED. THESE SHALL BE COORDINATED WITH THE ARCHITECT.
- 13. WHEN CONFLICTS OCCUR BETWEEN THE DRAWINGS AND/OR SPECIFICATIONS IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE
- CONTRACTOR SHALL CARRY AS PART OF THE BID THE LARGER QUANTITY AND/OR MORE EXPENSIVE ITEM(S).
- 14. CONTRACTORS SHALL COORDINATE THEIR WORK WITH ALL OWNER-FURNISHED EQUIPMENT, INCLUDING REQUIRED SERVICE CONNECTIONS, RECEPTACLES, ETC. BEFORE INSTALLATION.
- 15. CONTRACTORS SHALL PROVIDE ALL REQUIRED SLEEVES AND SEALS FOR PIPES OR CONDUIT PENETRATING WALLS OR FLOOR SLABS WITH FIRE STOPPING SEALANT WHERE REQUIRED.
- 16. ELECTRICAL CONDUITS & BOXES TO BE CONCEALED IN WALLS OR ABOVE CEILING WHEREVER POSSIBLE
- 17. COORDINATE ALL PIPING AND CONDUITS LEAVING THE BUILDING WITH THE SITE CONTRACTOR(S) BEFORE INSTALLATION.
- 18. PROVIDE VIBRATION ISOLATION FOR ALL MECHANICAL EQUIPMENT.
- 19. PROVIDE VIBRATION ISOLATORS FOR ALL PIPING SUPPORTS CONNECTED TO AND WITHIN 50 FEET OF ISOLATED EQUIPMENT THROUGHOUT MECHANICAL EQUIPMENT ROOMS.
- 20. LOCATE ALL TEMPERATURE, PRESSURE AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH STRAIGHT SECTION OF PIPE OR DUCT UP/DOWN STREAM AS RECOMMENDED BY THE MANUFACTURER FOR GOOD ACCURACY.
- 21. PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE DAMPERS, VALVES, SMOKE DETECTORS AND OTHER CONCEALED MECHANICAL EQUIPMENT.
- 22. ALL EQUIPMENT, PIPING, DUCT WORK SHALL BE SUPPORTED AS DETAILED, SPECIFIED AND REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.
- 23. LOCATION AND SIZES OF ALL FLOOR, WALL AND ROOF PENETRATIONS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.
- 24. INSTALL COMPLETE OPERATING SYSTEMS. PROVIDE ALL COMPONENTS, DEVICES, CONTROLS, RELAYS, TRANSFORMERS, ETC., WHETHER INDICATED OR NOT, FOR COMPLETE SYSTEMS AS INTENDED BY THE CONSTRUCTION DOCUMENTS.
- 25. ALL NEW EQUIPMENT SPECIFIED IN THE SCHEDULES SHALL BE CONNECTED TO THE EXISTING BUILDING AUTOMATION SYSTEM.
- 26. ALL PENETRATIONS THRU RATED WALLS, FLOORS & CEILINGS SHALL BE SEALED USING U.L. LISTED METHODS APPROPRIATE FOR INDICATED RATING

HVAC

- 1. PIPING AND DUCT WORK LAYOUTS AS INDICATED ON THE DRAWINGS ARE DIAGRAMMATIC; PROVIDE ADDITIONAL TRANSITIONS AND OFFSETS AS REQUIRED FOR
- COORDINATION WITH BUILDING CONSTRUCTION AND THE WORK OF OTHER TRADES. 2. PROVIDE VOLUME DAMPERS AS SPECIFIED AND AS INDICATED ON THE DRAWINGS.
- 3. PROVIDE FIRE DAMPERS AT DUCT PENETRATIONS OF FIRE RATED PARTITIONS.
- 4. PROVIDE SMOKE DETECTORS ON THE SUPPLY AND RETURN SIDE OF ALL AIR HANDLING EQUIPMENT 2000 CFM AND OVER.
- 5. ALL MOTORS AND EQUIPMENT SHALL BE OF EFFICIENCIES THAT ARE ELIGIBLE FOR UTILITY COMPANY ENERGY INCENTIVE PROGRAMS.
- 6. THE AUTOMATIC TEMPERATURE CONTROL SYSTEM SHALL BE COMPLETE IN ALL REGARDS, TESTED AND CAPABLE OF ACHIEVING THE SEQUENCES OF OPERATION. ALL DEVICES SHALL BE UNDER SYSTEM CONTROL. ALL ZONES SHALL BE THERMOSTATICALLY CONTROLLED WHETHER OR NOT A THERMOSTAT, SENSOR OR MAINTAIN MANUFACTURER'S RECOMMENDED MINIMUM CLEARANCES FOR INSTALLATION OF EQUIPMENT.
- 7. FLEX DUCT RUNS SHALL NOT BE LONGER THAN 5 FT.
- 8. PROVIDE VOLUME DAMPERS AT ALL SUPPLY DIFFUSERS, RETURN GRILLES, AND EXHAUST GRILLES.
- 9. PROVIDE VANDAL RESISTANT COVERS THERMOSTATS, AS NOTED.

SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

- 10. ALL DUCTWORK DIMENSIONS, AS SHOWN ON THE DRAWINGS, ARE INTERNAL CLEAR DIMENSIONS AND DUCT SIZE SHALL BE INCREASED TO COMPENSATE FOR DUCT LINING THICKNESS.
- 11. PROVIDE ALL 90 DEGREE SQUARE ELBOWS WITH DOUBLE RADIUS TURNING VANES UNLESS OTHERWISE INDICATED. ELBOWS SHALL BE UNVANED SMOOTH RADIUS CONSTRUCTION WITH A RADIUS EQUAL TO 1-1/2 TIMES THE WIDTH OF THE DUCT. PROVIDE ACCESS DOORS UPSTREAM OF ALL ELBOWS WITH TURNING VANES.
- 12. COORDINATE DIFFUSER, REGISTER AND GRILLE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS, LIGHTING AND OTHER CEILING ITEMS.
- 13. PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS CONNECTED TO AIR HANDLING UNITS, FANS AND OTHER EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE AT THE POINT OF CONNECTION TO THE EQUIPMENT UNLESS OTHERWISE INDICATED.
- 14. ALL DUCTWORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN DUCTS, INCLUDING DIVIDED DUCTS AND TRANSITIONS AROUND OBSTRUCTIONS,
- 15. PROVIDE ACCESS DOORS IN DUCTWORK TO PROVIDE ACCESS FOR ALL SMOKE DETECTORS, FIRE DAMPERS, SMOKE DAMPERS, VOLUME DAMPERS, COILS AND OTHER ITEMS LOCATED IN DUCTWORK WHICH REQUIRE SERVICE OR INSPECTION.
- 16. PROVIDE ACCESS DOORS IN DUCTWORK FOR OPERATION, ADJUSTMENT AND MAINTENANCE OF ALL FANS, VALVES AND MECHANICAL EQUIPMENT.
- 17. SUPPLY AND RETURN DUCTS FROM THE MAIN AIR HANDLING UNIT SHALL HAVE ACOUSTICAL LINING, R VALUE OF 5. WITHIN 10' FT OF UNIT, METAL NOSINGS SHALL BE SECURELY INSTALLED OVER TRANSVERSELY ORIENTED LINER EDGES FACING THE AIR STREAM AT FAN DISCHARGE, AT ACCESS DOORS, AND AT ANY INTERVAL OF LINED DUCT PRECEDED BY UNLINED DUCT METAL NOSING SHALL BE USED ON UPSTREAM EDGES OF LINER AT EVERY TRANSVERSE JOINT.
- 18. DUCTWORK SHALL BE PRESSURE TESTED AND SEALED FOR LEAKAGE PER SMACNA STANDARDS.
- 19. THE SUPPLY AIR SYSTEM SHALL BE PURGED TO ENSURE ALL FOREIGN PARTICLES ARE REMOVED PRIOR TO FINAL CONNECTION OF SUPPLY AIR DIFFUSERS.
- 20. CONTRACTOR SHALL FURNISH AND INSTALL NEW AIR FILTERS AFTER THE SUPPLY AIR SYSTEM IS PURGED.

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Mechanical Notes, Legand and Abbreviations.

Date:	Drawing Number:
JUNE 30, 2020	
Scale:	
Drawn By:	-M()()
MZ	
1*12	

18.223

15 Hinsdale Ave. Winsted, Connecticut 06098

Hinsdale Elementary School

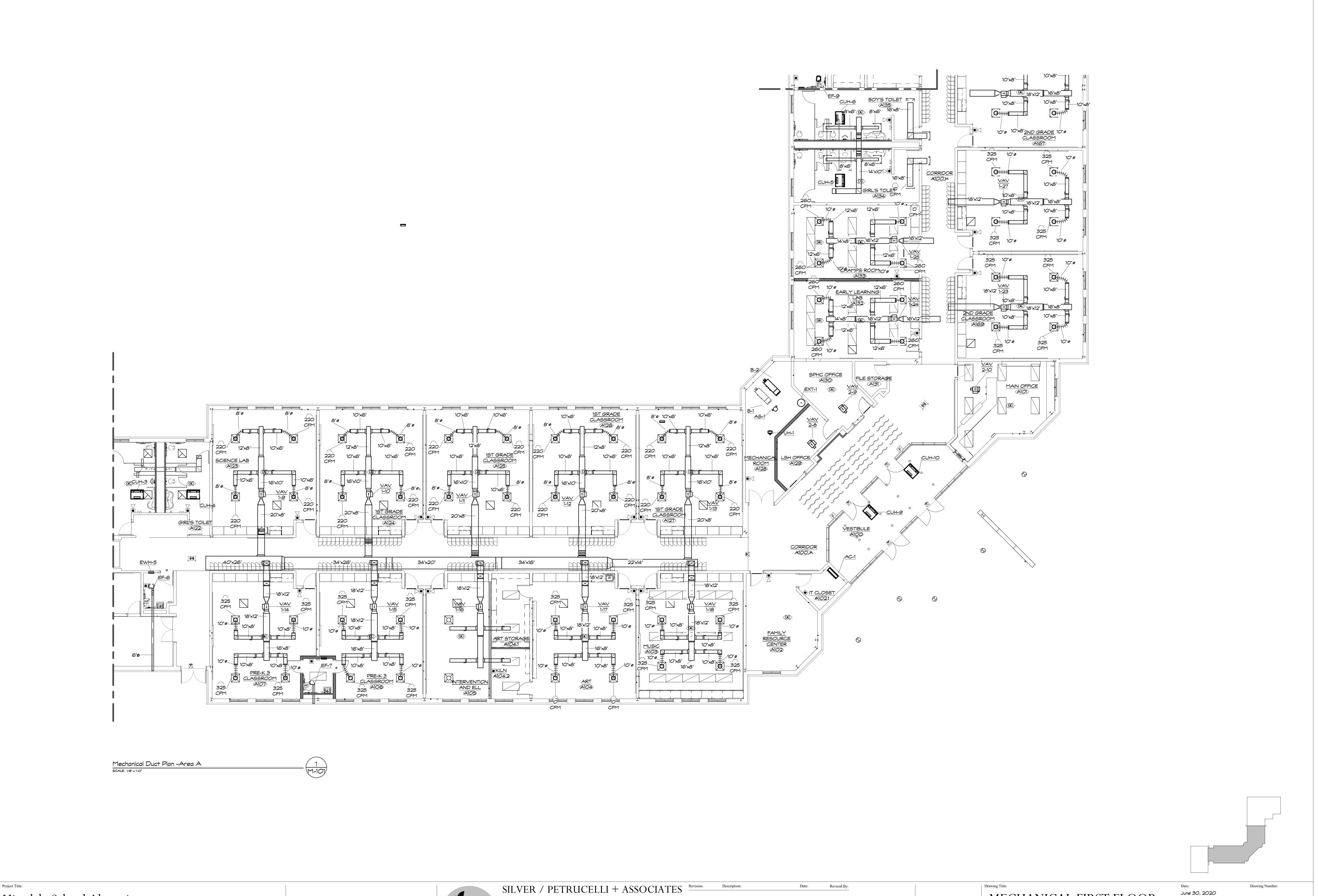
EXH

F&B

EXHAUST

DEGREES FAHRENHEIT

FACE & BYPASS DAMPER



Hinsdale School Alterations

Architects / Engineers / Interior Designers

BUILDING 'A'

State Project #: 162-0043RNV

MECHANICAL FIRST FLOOR
BUILDING 'A'

State Project #: 162-0043RNV

MECHANICAL FIRST FLOOR
BUILDING 'A'

Designers

Architects / Engineers / Interior Designers

Sale:

15 Hinsdale Ave.

Winsted, CT 06098

MECHANICAL FIRST FLOOR
BUILDING 'A'

Designers

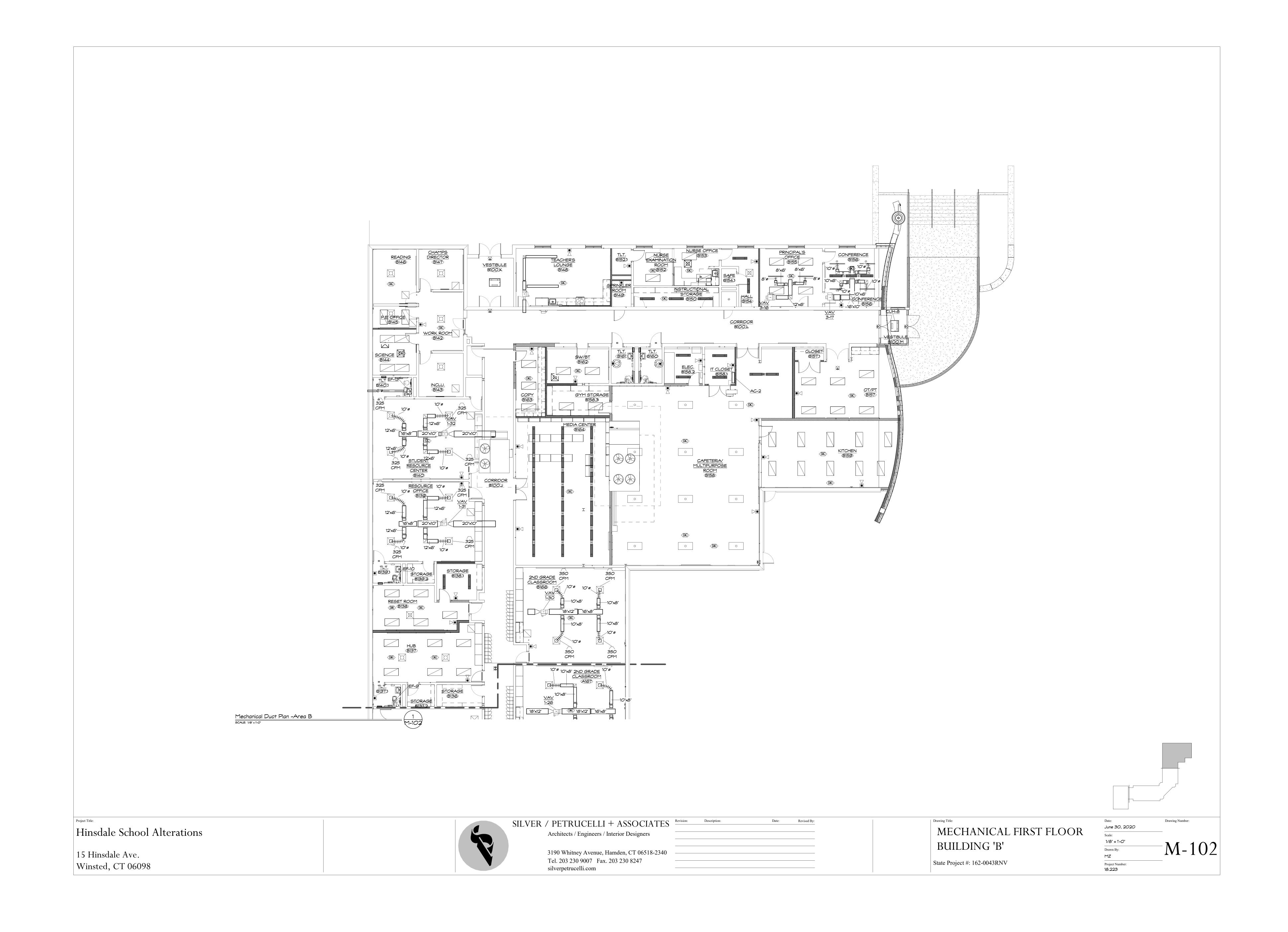
Architects / Engineers / Interior Designers

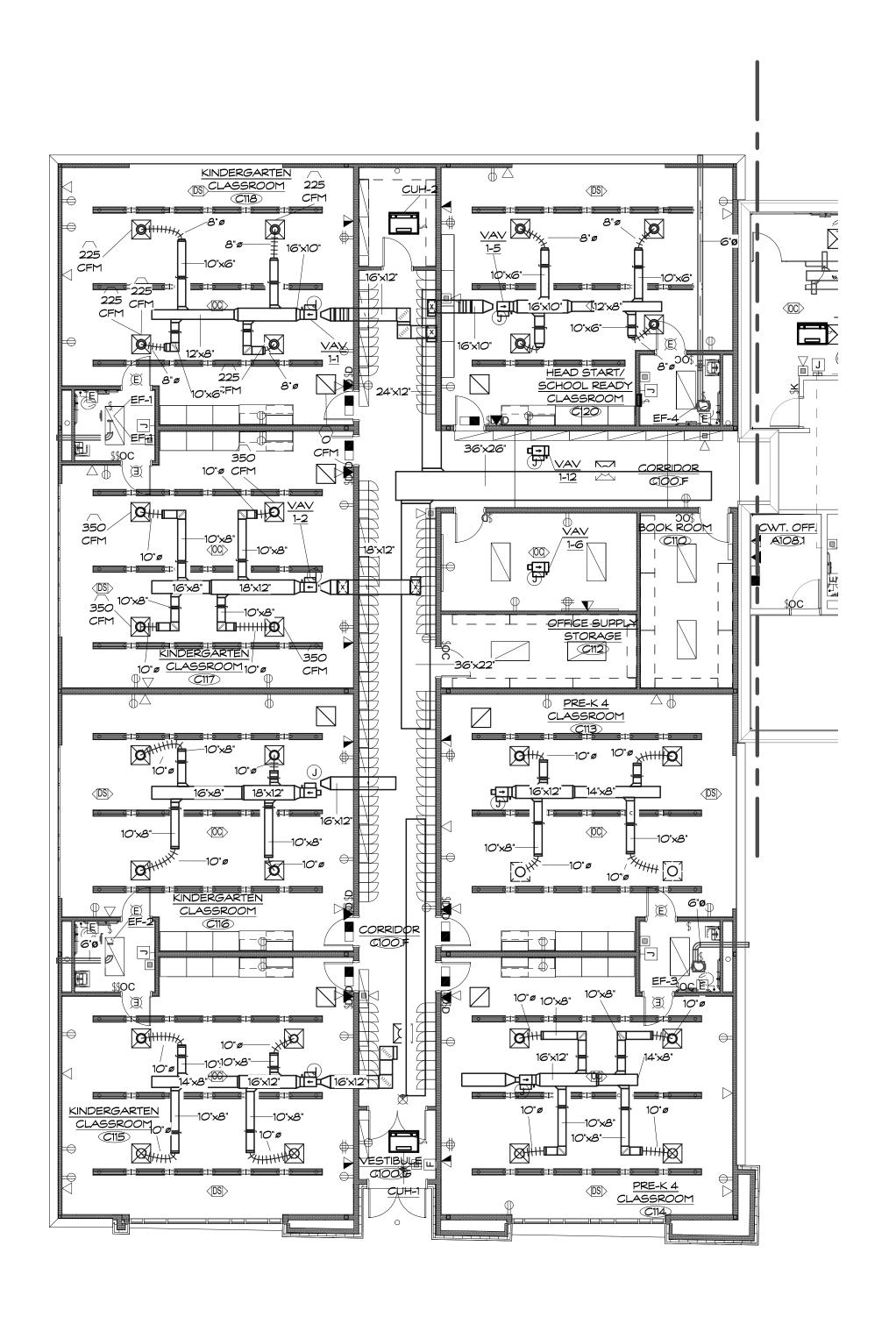
Sale:

162-0043RNV

M- 101

Project #: 162-0043RNV





Mechanical Duct Plan -Area C

 $= \underbrace{\frac{1}{M-103}}$

Hinsdale School Alterations

15 Hinsdale Ave. Winsted, CT 06098

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MECHANICAL FIRST FLOOR
BUILDING 'C'
State Project #: 162-0043RNV

Date:

June 30, 2020

Scale:

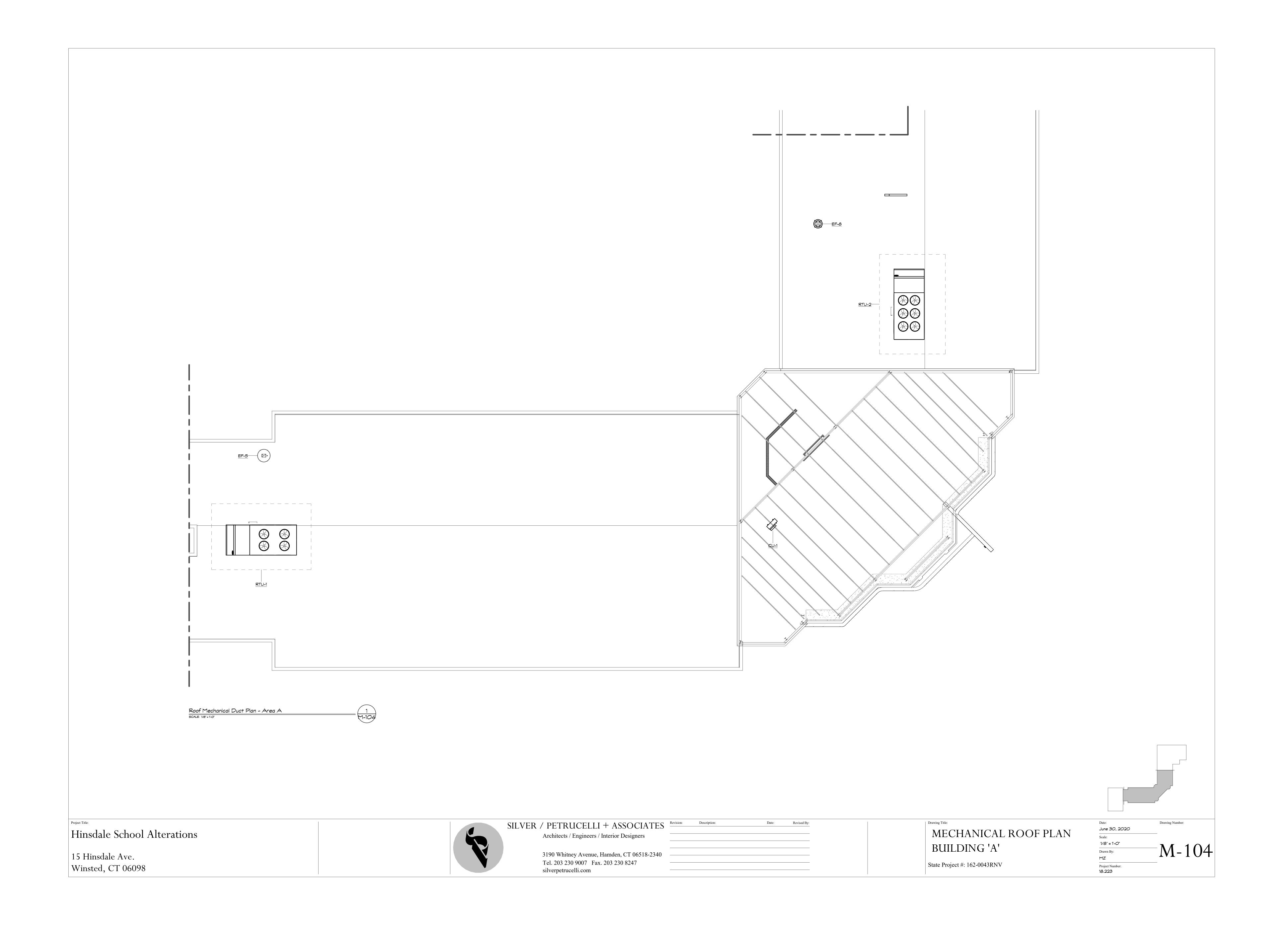
1/8" = 1'-0"

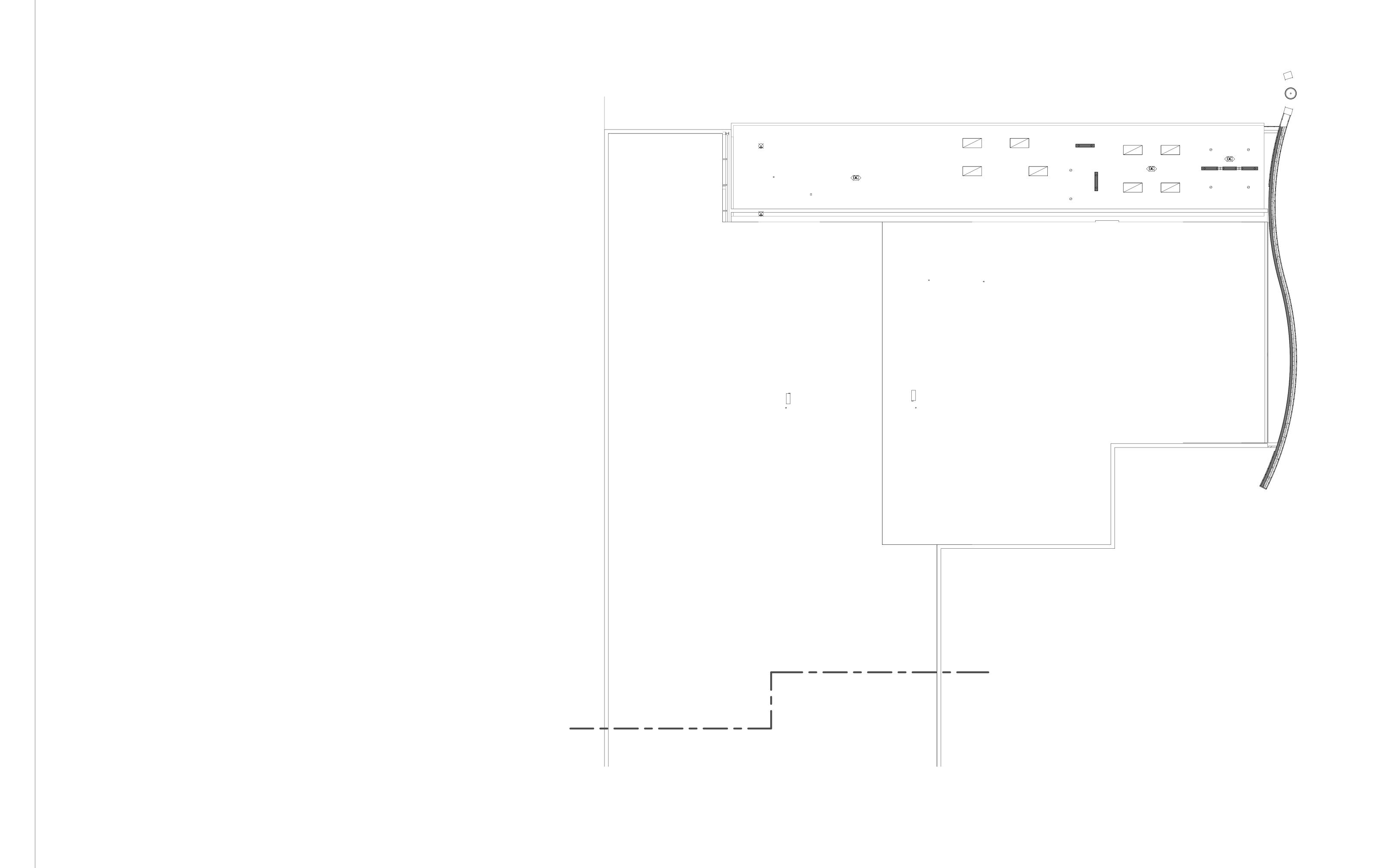
Drawn By:

MZ

Project Number:

18.223





Project Title:

Hinsdale School Alterations

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MECHANICAL ROOF PLAN
BUILDING 'B'
State Project #: 162-0043RNV

Date:
 June 30, 2020

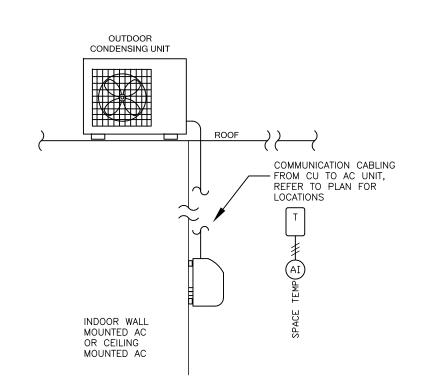
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1/8" = 1'-0"

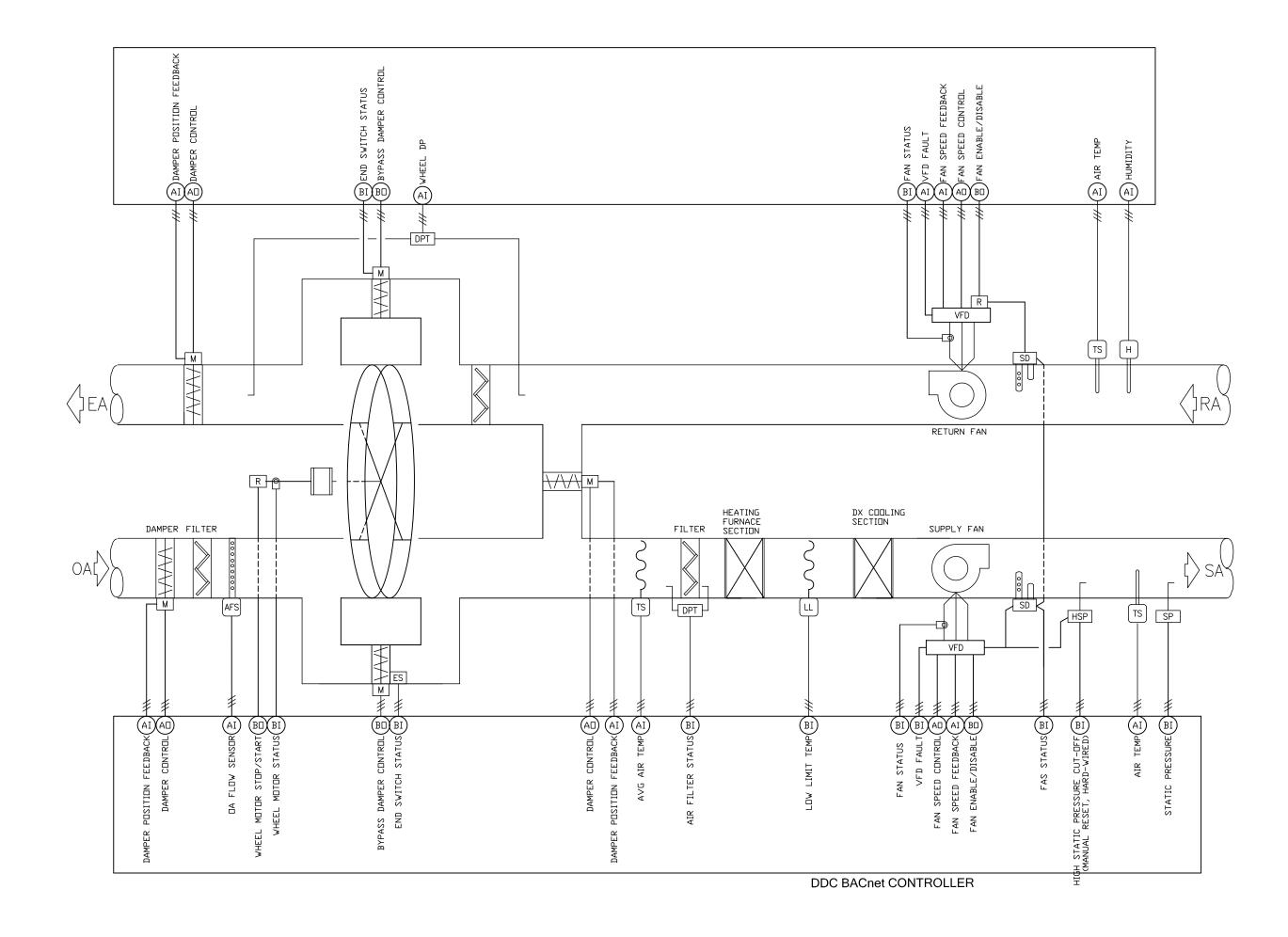
Drawn By:

MZ

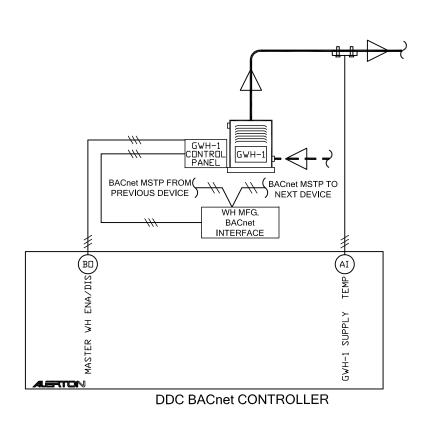
Project Number:
18.223



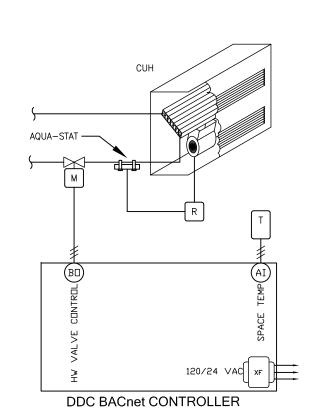
7 DUCTLESS SPLIT SYSTEM CONTROL DIAGRAM M701 SCALE: NTS



6 RTU WITH ENERGY RECOVERY CONTROL DIAGRAM
M701 SCALE: NTS

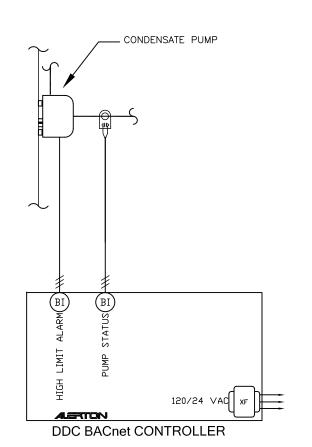


5 DOMESTIC WATER HEATER CONTROL DIAGRAM
M701 SCALE: NTS

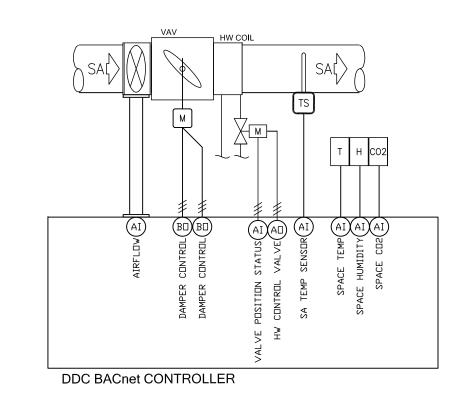


4 HW CABINET UNIT HEATER

SCALE: NTS

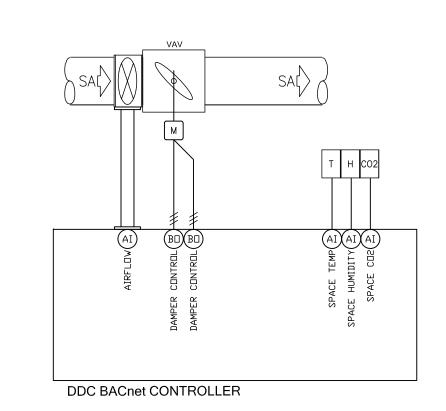


3 CONDENSATE PUMP CONTROL DIAGRAM
SCALE: NTS

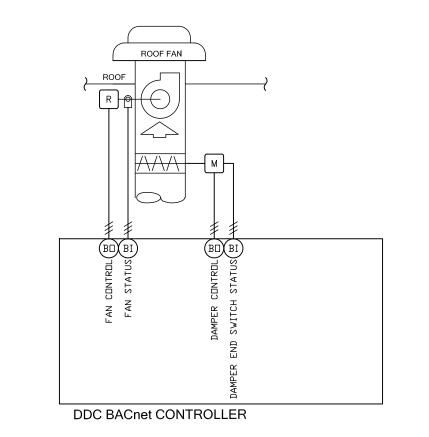


SINGLE DUCT VAV WITH HOT WATER CONTROL DIAGRAM

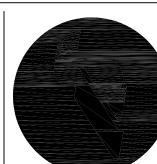
SCALE: NTS



1 SINGLE DUCT VAV CONTROL DIAGRAM
M701 SCALE: NTS



8 TYPICAL EXHAUST CONTROL DIAGRAM
N701 SCALE: NTS



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MECHANICAL CONTROLS Date:

JUNE 30, 2020

Scale:

Drawn By:

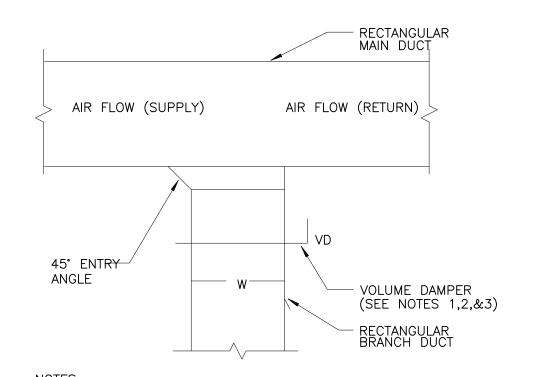
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Project Number:

18.223

Project Title:
Hinsdale Elementary School

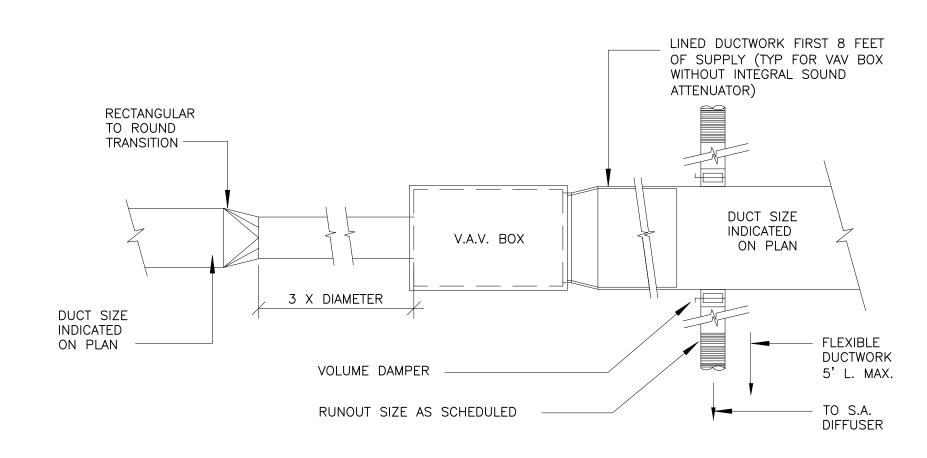
15 Hinsdale Ave. Winsted, Connecticut 06098



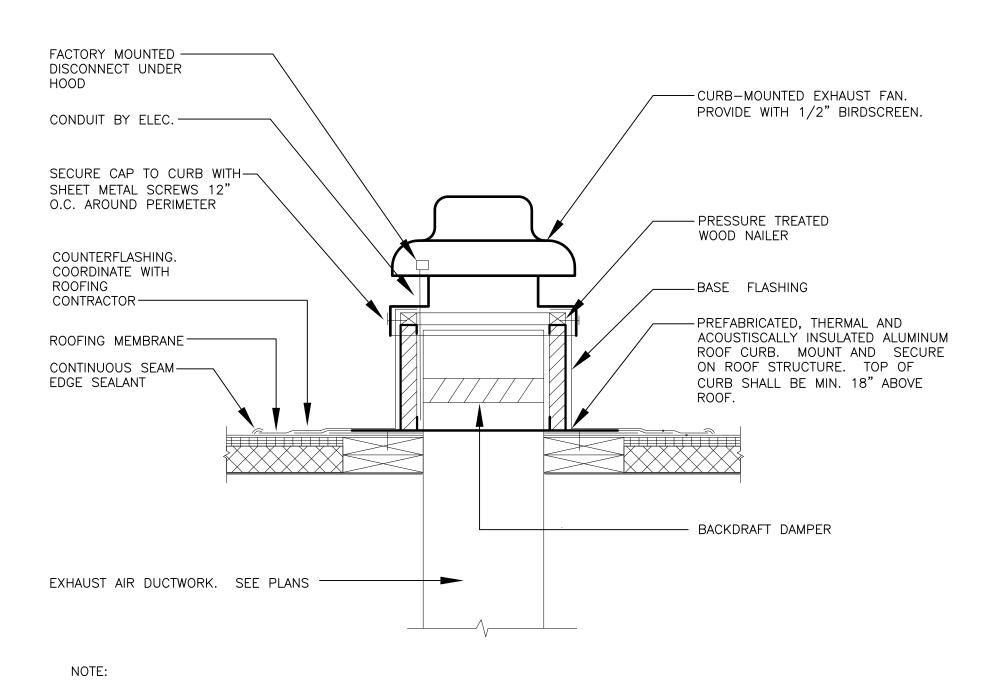
1. UP TO 1.5 SQ. FT. CROSS SECTIONAL AREA AND NOT EXCEEDING 24" IN WIDTH, USE SINGLE BLADE VOLUME DAMPER.

- 2. FOR CROSS SECTIONAL AREAS FROM 1.5 TO 3.0 SQ. FT. AND NOT EXCEEDING 24" IN WIDTH, USE 3 SINGLE BLADE VOLUME DAMPERS INDIVIDUALLY OPERATED TO FUNCTION IN AN OPPOSED MANNER.
- 3. FOR CROSS SECTIONAL AREAS GREATER THAN 3.0 SQ. FT. AND/OR EXCEEDING 24" IN WIDTH, USE GANG OPERATED OPPOSED BLADE VOLUME DAMPER AND FRAME



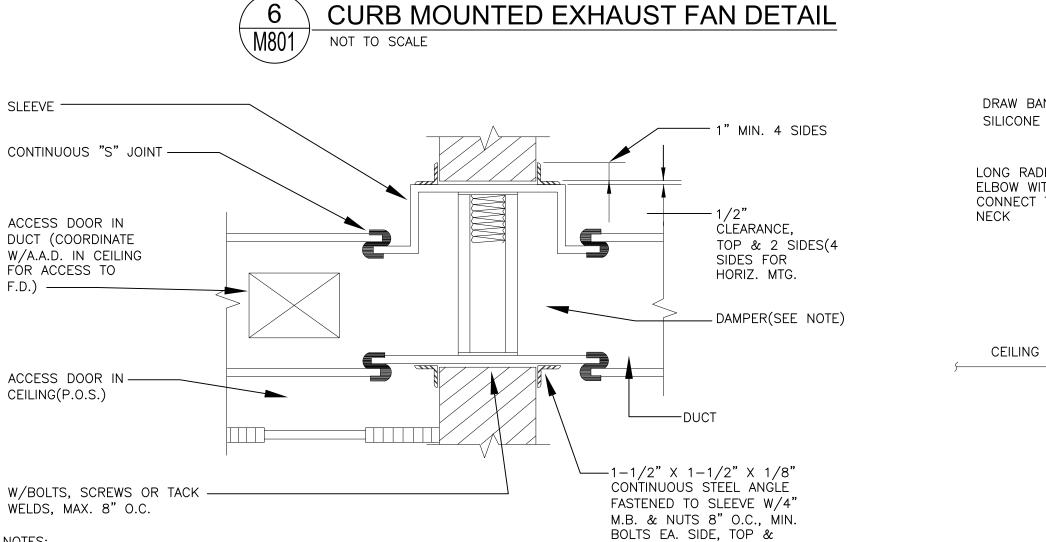






1. DRAWING AS SHOWN ARE FOR INFORMATION ONLY. CONTRACTOR SHALL PROVIDE ALL NECESSARY SUPPORT AS REQUIRED TO SECURE AND SEISMICALLY SUPPORT THE ROOF CURB TO THE STRUCTURE.

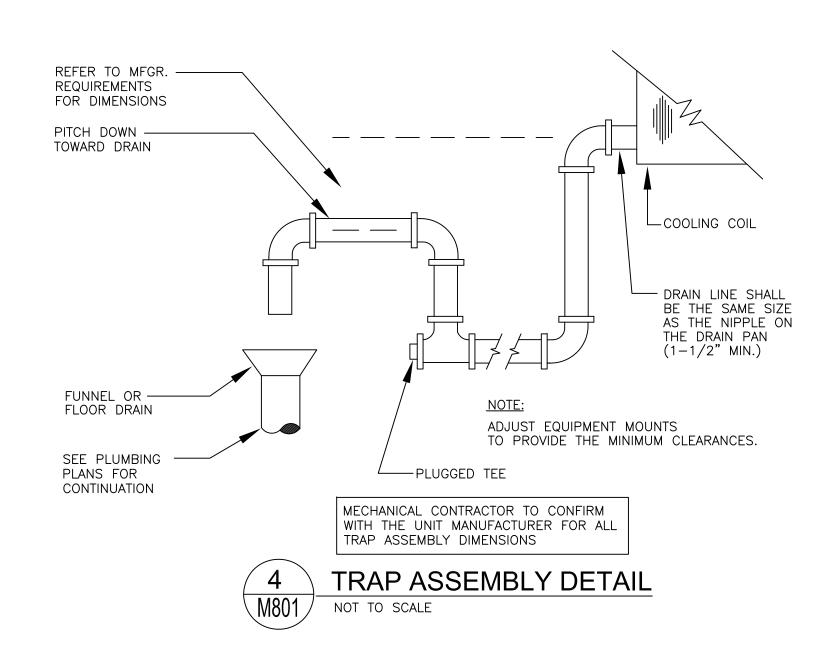
- 2. ALL INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
- 3. COORDINATE SEALING AND WATERPROOFING WITH THE ROOFING CONTRACTOR.
- 4. ROOF CURB, FLASHING AND ROOF CAP SHALL BE EPOXY COATED TO MATCH THE COLOR OF THE ROOF.



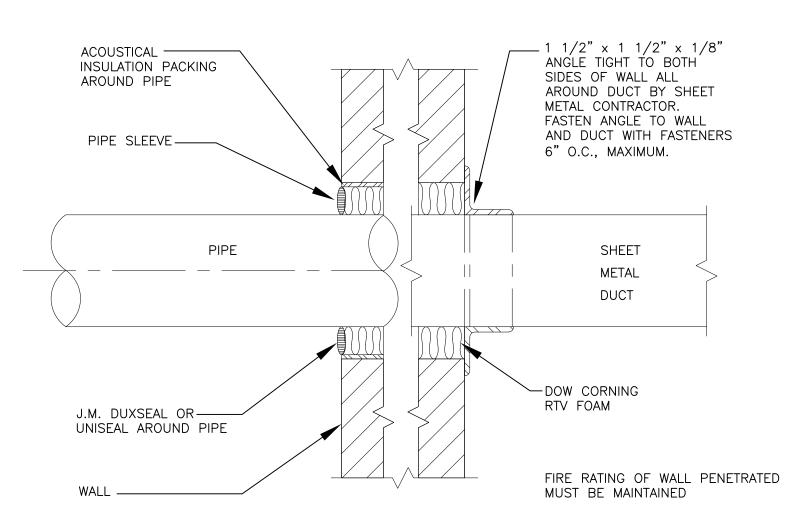
NOTES: 1. DAMPER STYLE & SLEEVE CONFIGURATION IS GOVERNED BY MAINTAINING A MAX. .06 STATIC PRESSURE @ 2500 F.P.M. FACE VELOCITY. 2. DEPTH OF DAMPER TO BE COORDINATED WITH WALL THICKNESS.

3. INSTALLATIONS & MATERIALS PER U.L. 555.

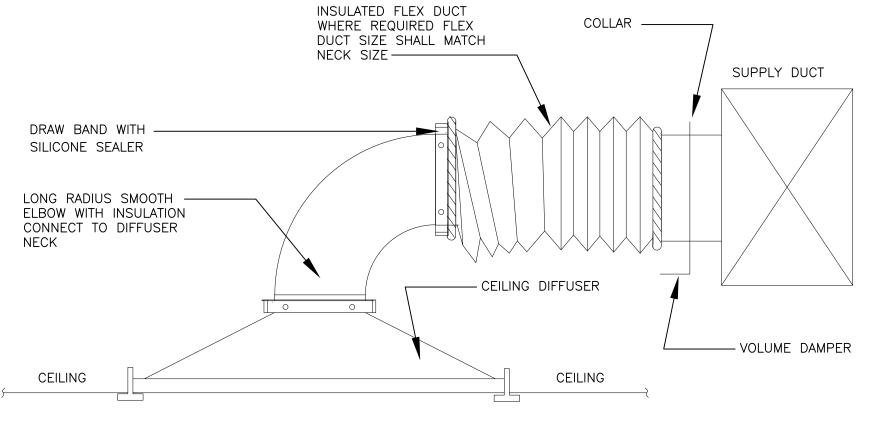
VERTICAL FIRE DAMPER DETAIL M801 NOT TO SCALE



Date: Revised By:



PIPE OR DUCT PENETRATION THROUGH WALL DETAIL NOT TO SCALE



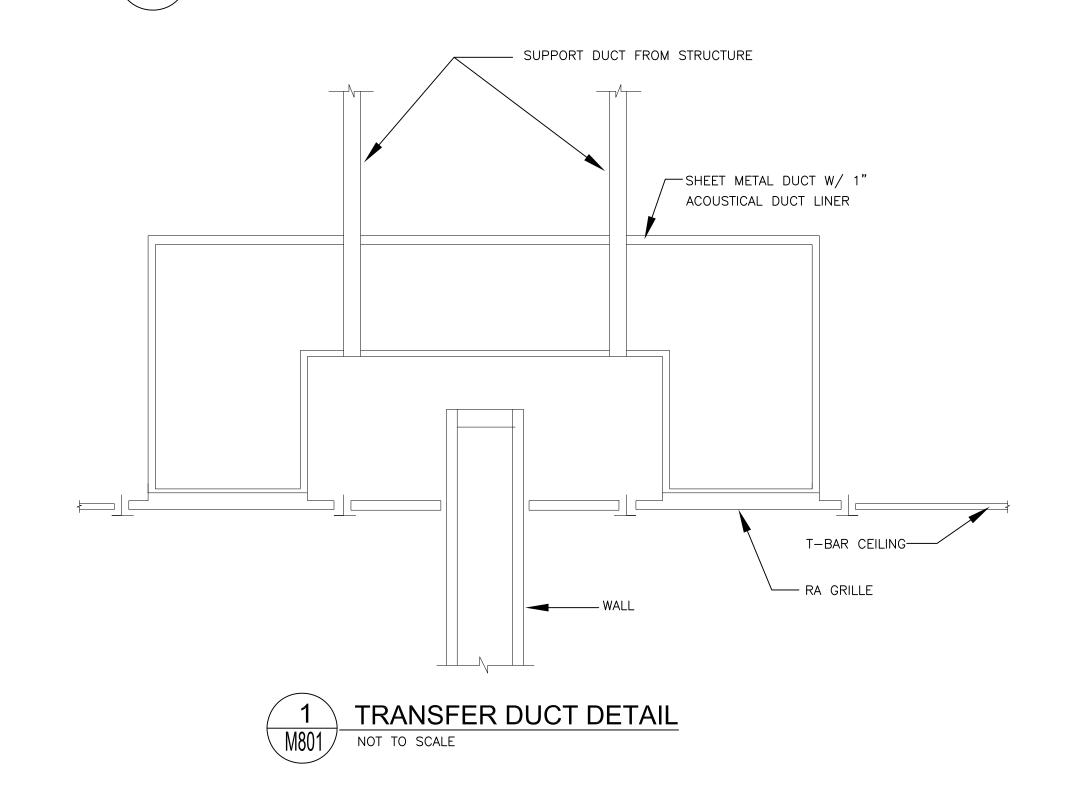
TYPICAL DIFFUSER CONNECTION

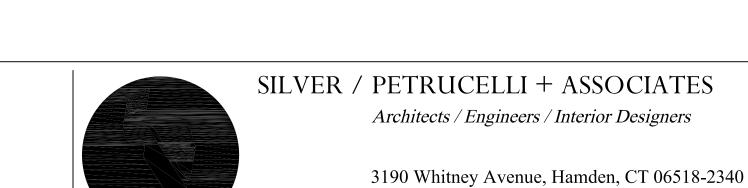
PROVIDE AN ELBOW WITH THE SAME SIZE AS THE

NOT TO SCALE

NECK OF DIFFUSER TO ACHIEVE REQUIRED

ACOUSTICAL PERFORMANCE.





Revision: Description: SILVER / PETRUCELLI + ASSOCIATES Architects / Engineers / Interior Designers

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Drawing Title:

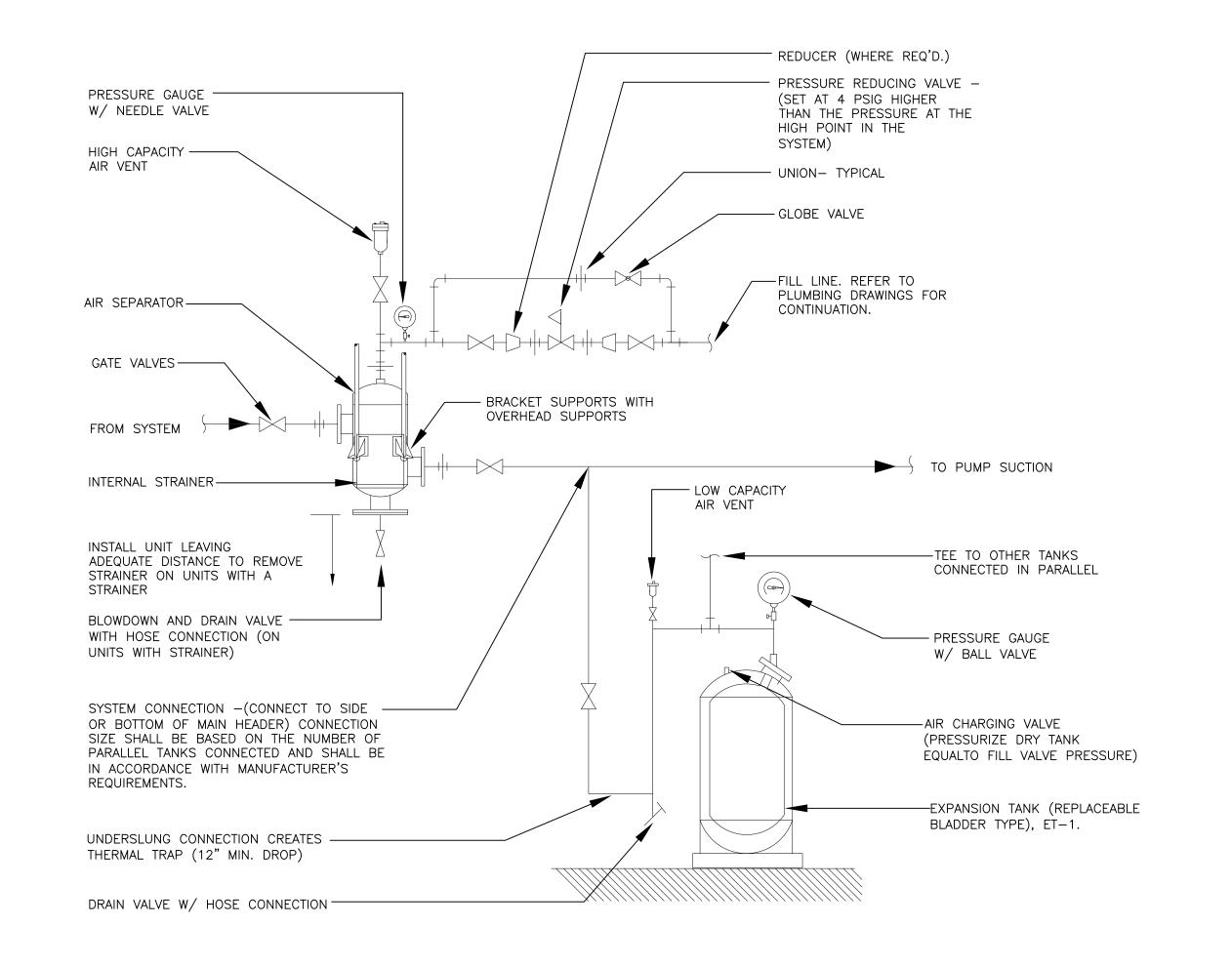
MECHANICAL **DETAILS**

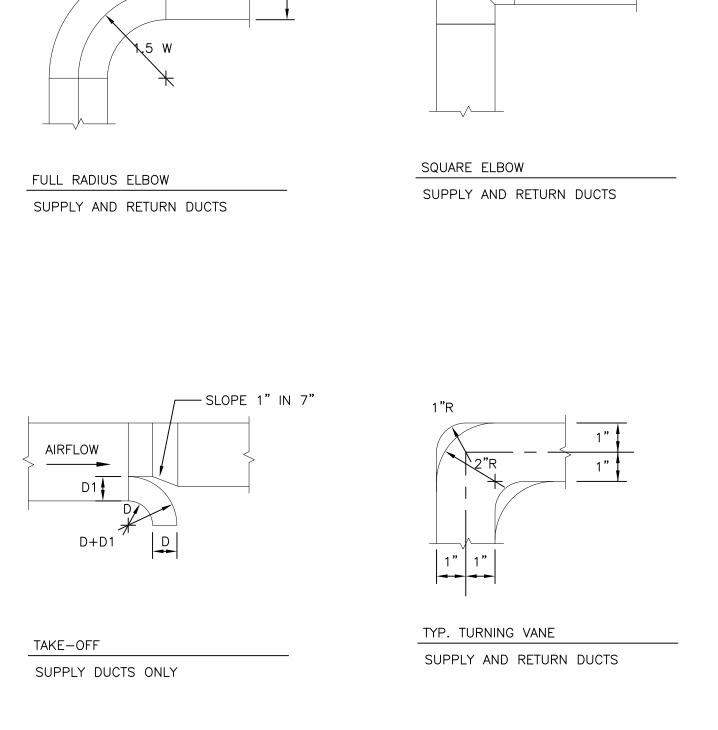
Date: Drawing Number: JUNE 30, 2020 M801 Project Number:

18.223

Project Title:
Hinsdale Elementary School

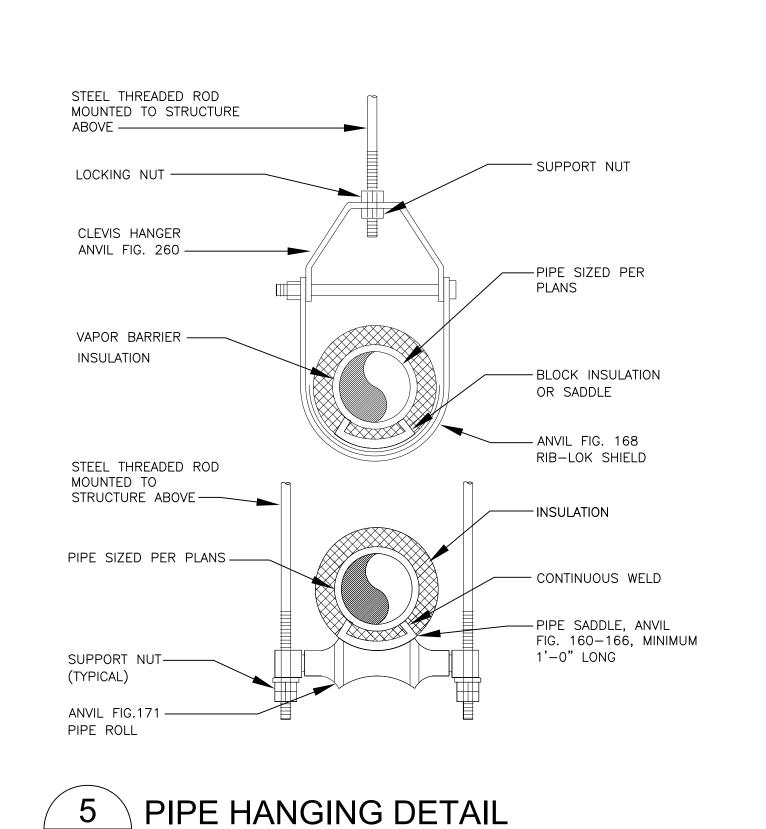
15 Hinsdale Ave. Winsted, Connecticut 06098



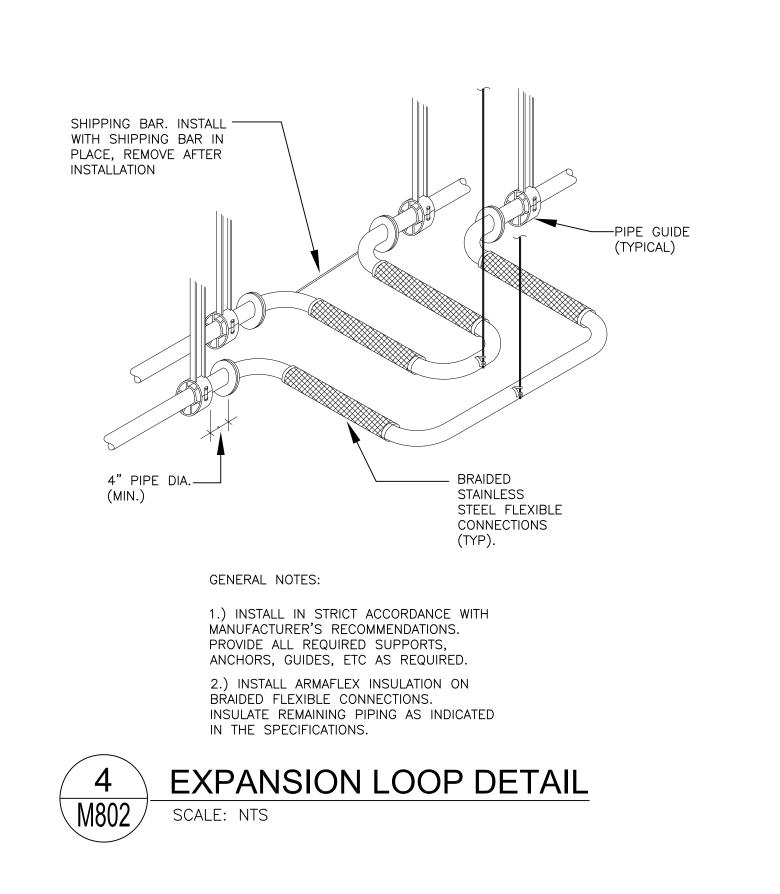


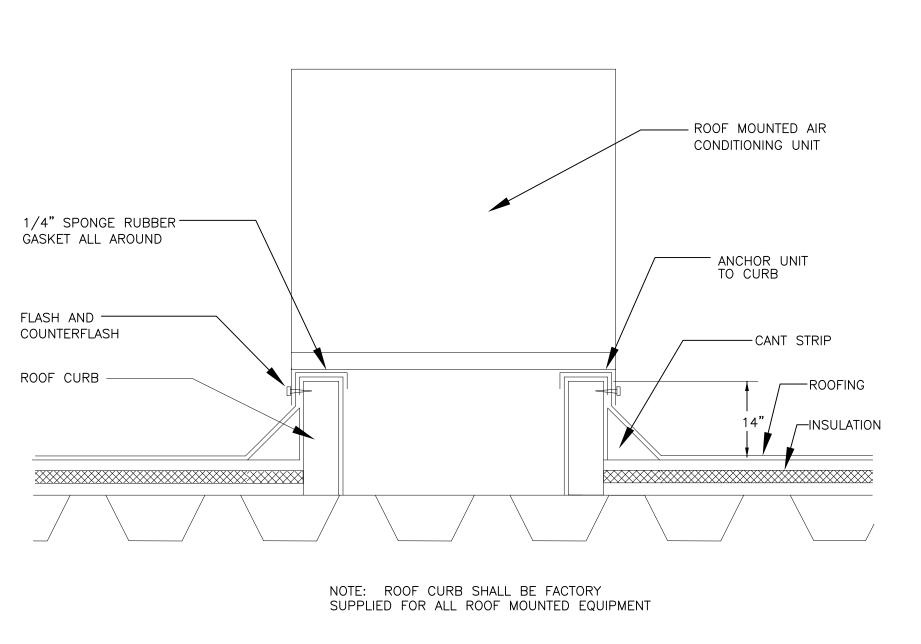
DOUBLE THICKNESS
TURNING VANES



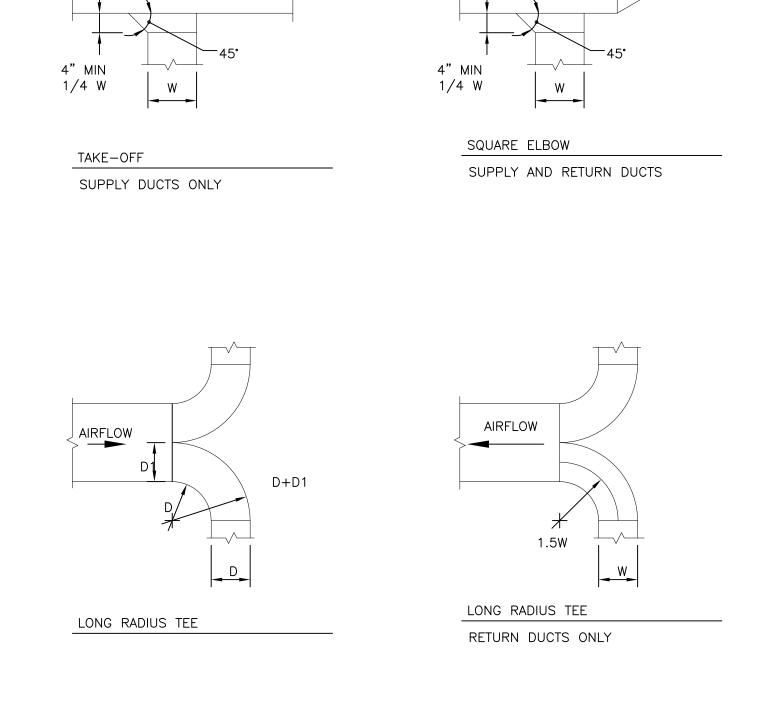


SCALE: NTS









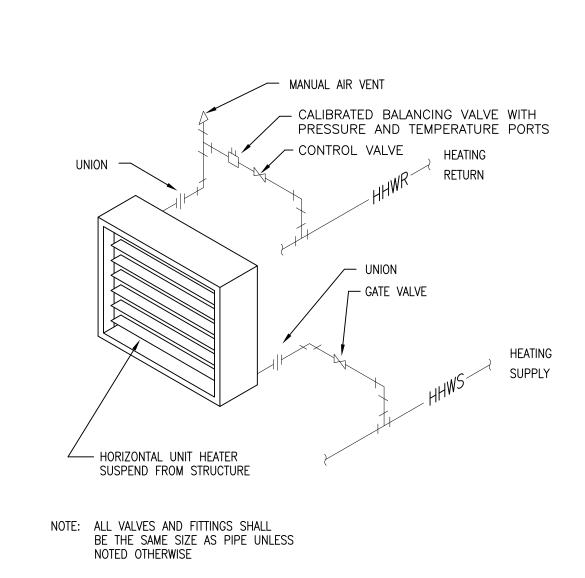
AIRFLOW

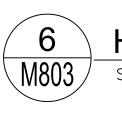
AIRFLOW



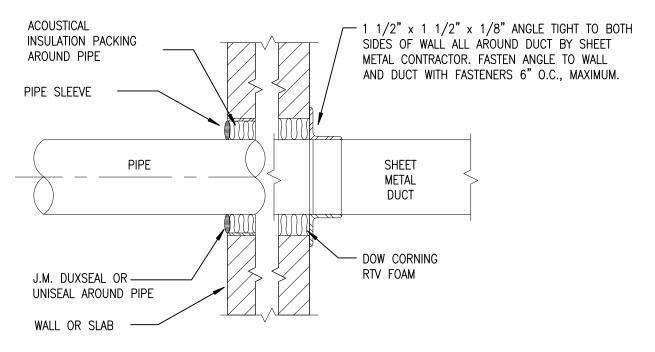
Project Title:
Hinsdale Elementary School Drawing Title:

MECHANICAL Revision: Description: Date: Revised By: Date: Drawing Number: SILVER / PETRUCELLI + ASSOCIATES JUNE 30, 2020 Architects / Engineers / Interior Designers **DETAILS** -M802 3190 Whitney Avenue, Hamden, CT 06518-2340 15 Hinsdale Ave. Tel. 203 230 9007 Fax. 203 230 8247 Project Number: Winsted, Connecticut 06098 silverpetrucelli.com 18.223

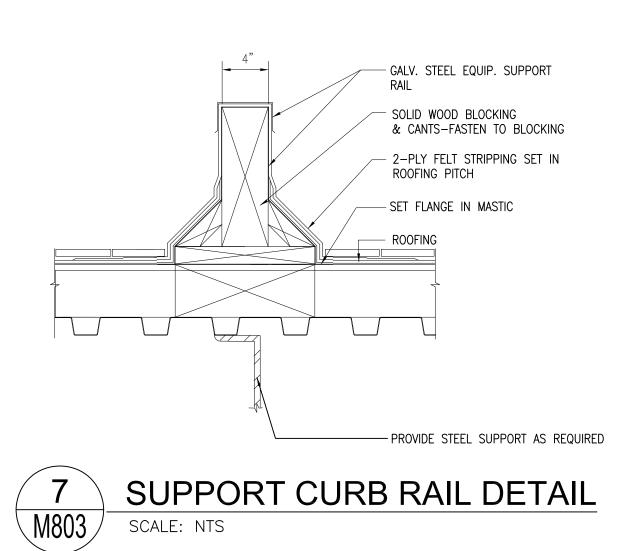


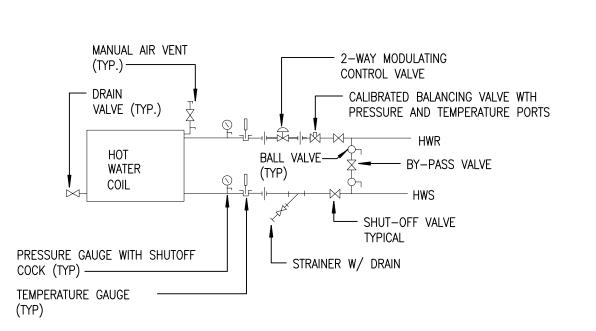


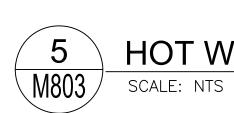
HOT WATER UNIT HEATER DETAIL SCALE: NTS



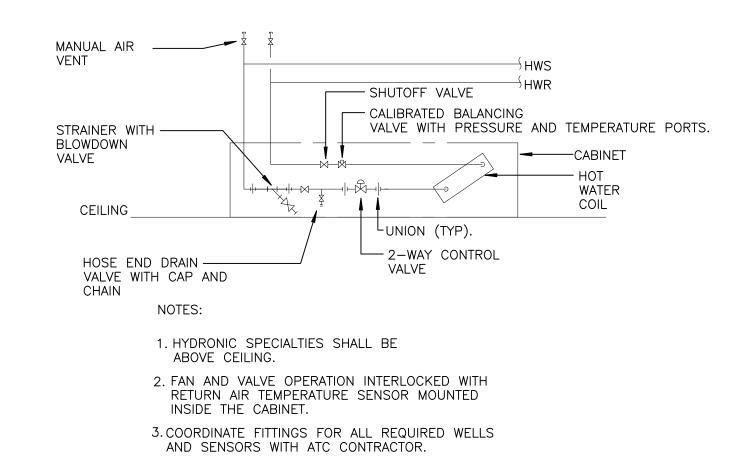








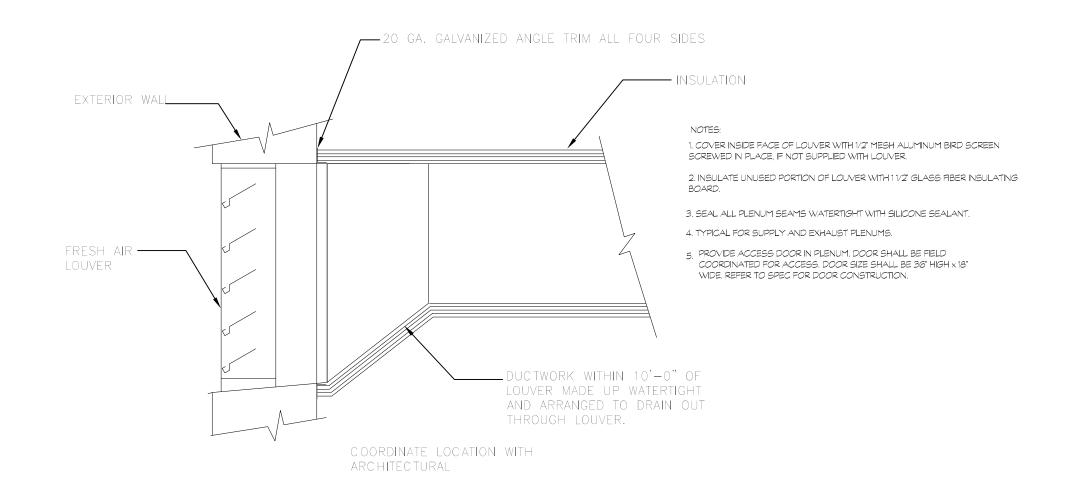
HOT WATER VAV PIPING



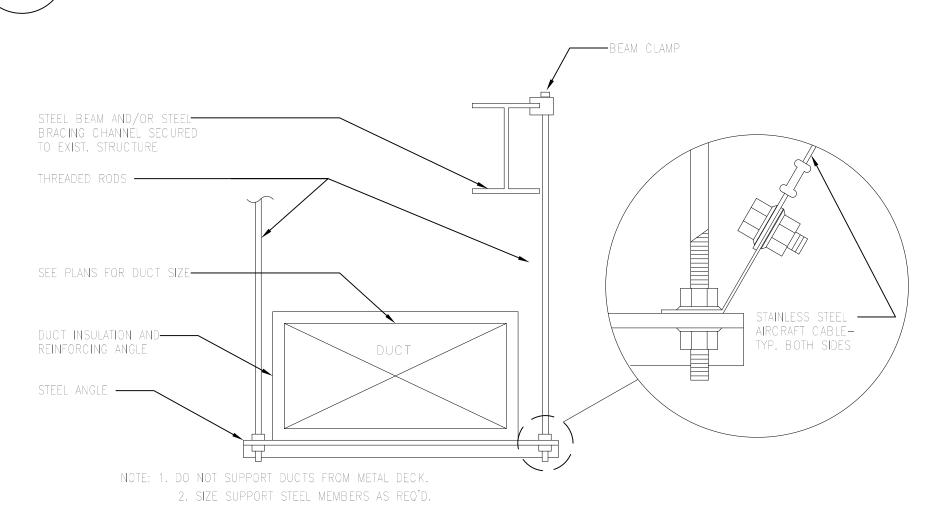


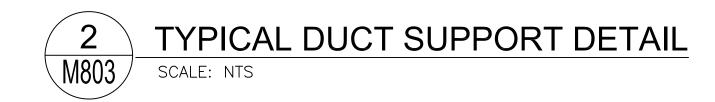
HOT WATER CABINET UNIT HEATER DETAIL SCALE: NTS

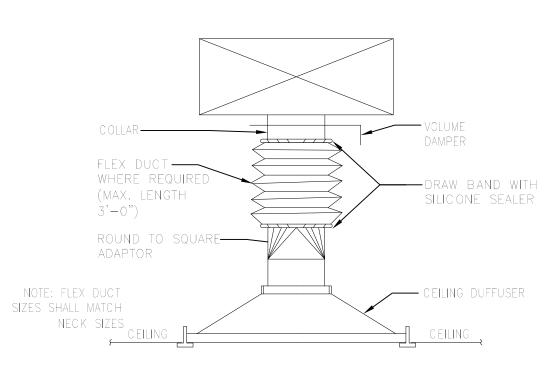
Date: Revised By:













Project Title:
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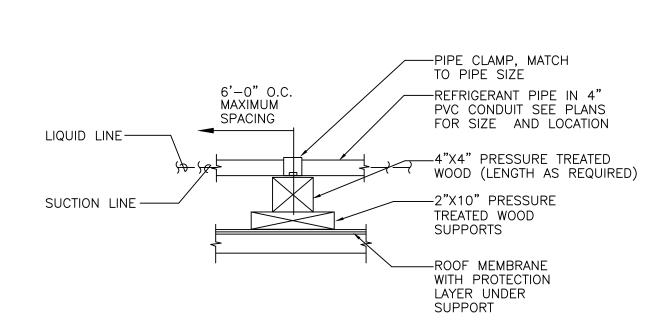
> 3190 Whitney Avenue, Hamden, CT 06518-2340 Tel. 203 230 9007 Fax. 203 230 8247 silverpetrucelli.com

Drawing Title:

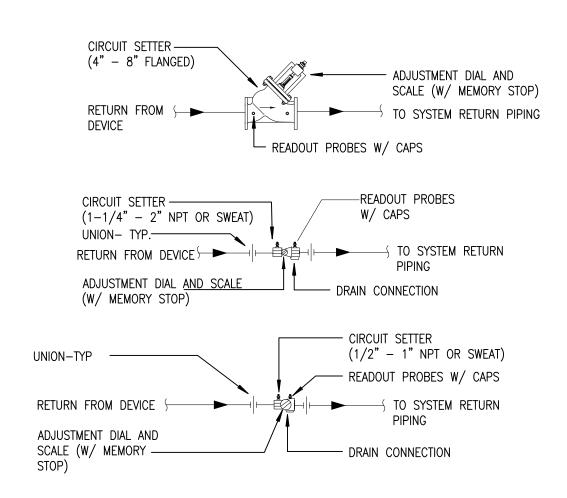
MECHANICAL **DETAILS**

Drawing Number: JUNE 30, 2020 -M803 Project Number:

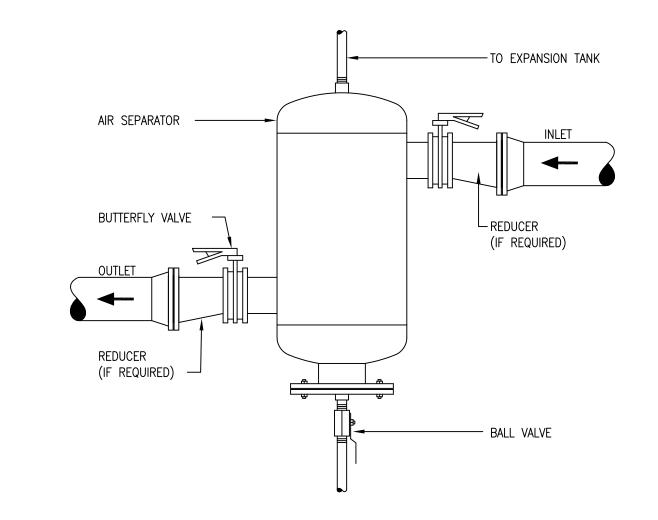
18.223



6 REFRIGERANT PIPING ROOF SUPPORT SCALE: NTS

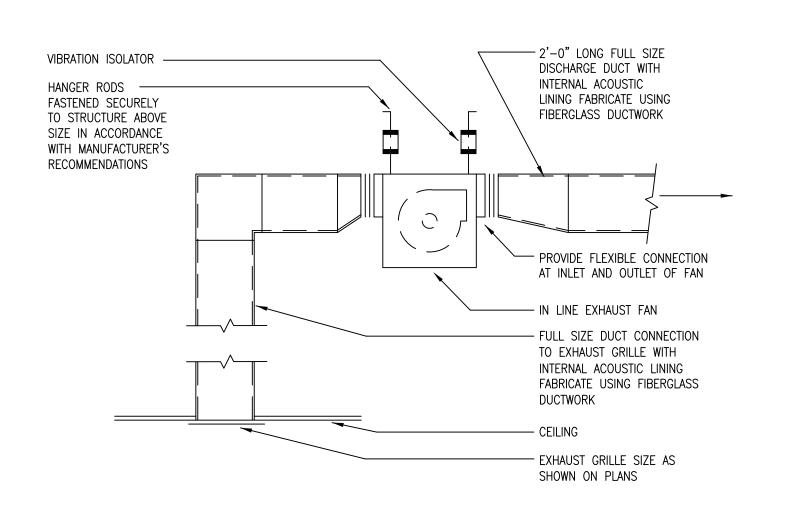


5 CALIBRATED BALANCING DEVICE SCALE: NTS

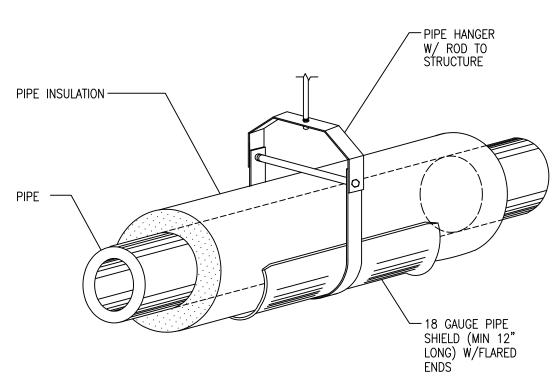




Date: Revised By:

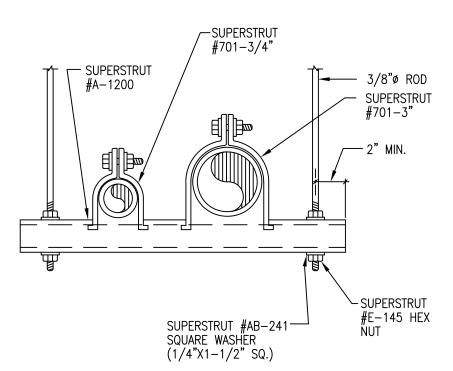


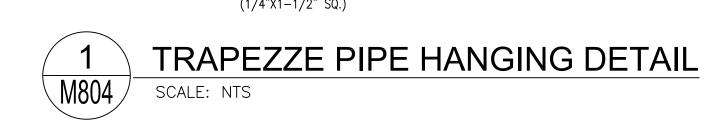


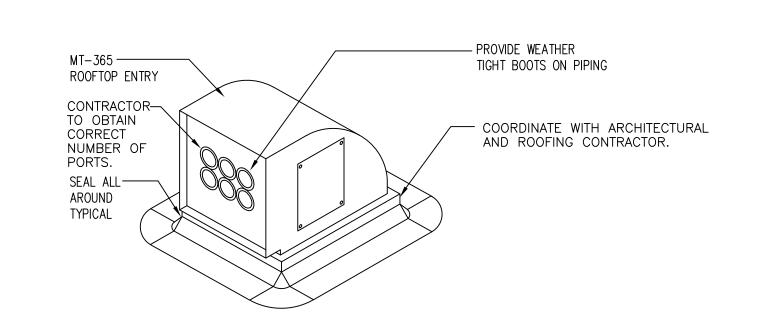


USE FOR COLD WATER PIPING ONLY, FOR HOT WATER PIPNG OMIT SHIELD AND USE CLEVIS SIZE SAME AS PIPE SIZE











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Drawing Title:

MECHANICAL

DETAILS

Date:

JUNE 30, 2020

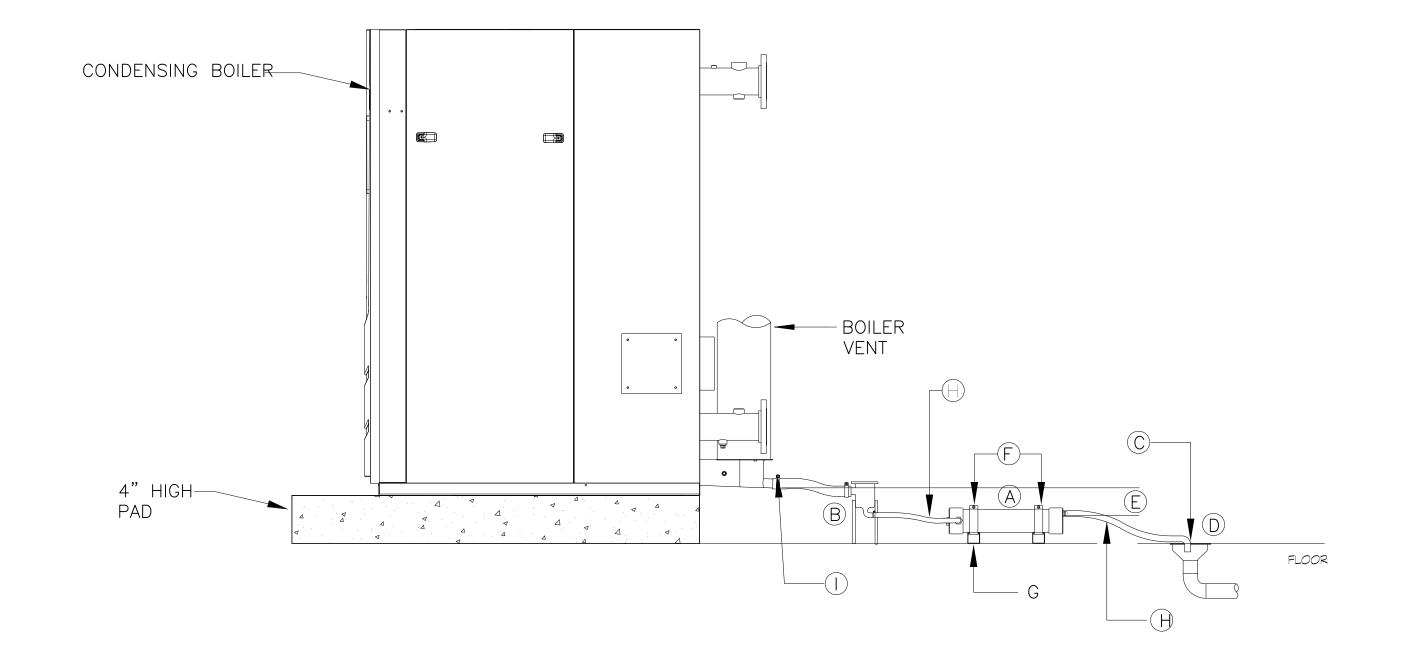
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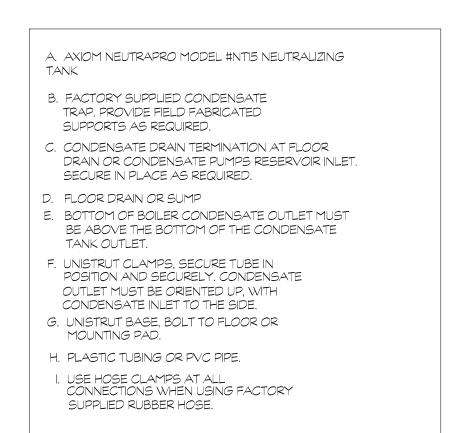
Drawn By:

MZ

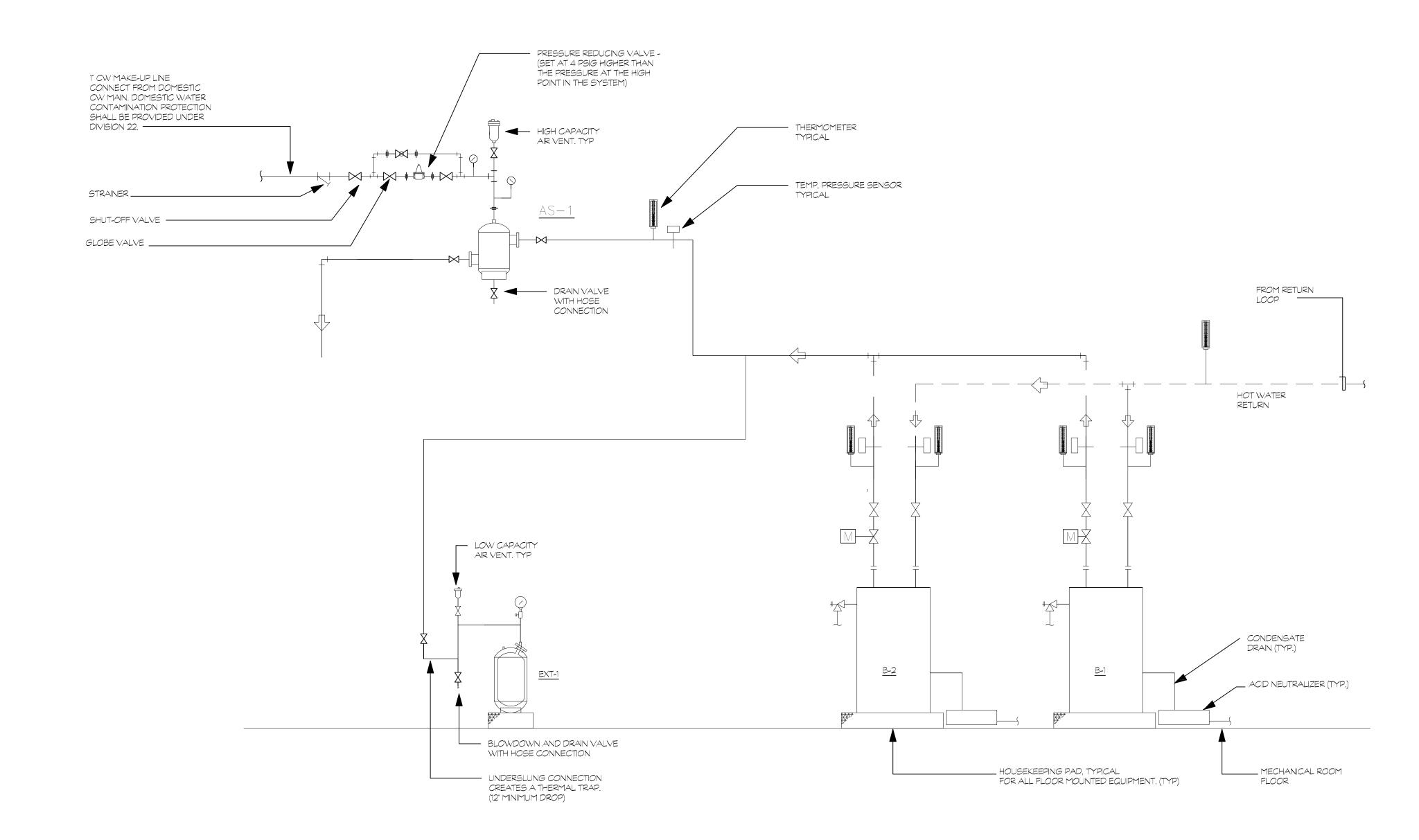
Project Number:

18.223











Hinsdale Elementary School Drawing Title:

MECHANICAL Revision: Description: Date: Revised By: Date: Drawing Number: SILVER / PETRUCELLI + ASSOCIATES JUNE 30, 2020 Scale: Architects / Engineers / Interior Designers FLOW DIAGRAMS -M8053190 Whitney Avenue, Hamden, CT 06518-2340 15 Hinsdale Ave. Winsted, Connecticut 06098 Tel. 203 230 9007 Fax. 203 230 8247 Project Number: silverpetrucelli.com 18.223

	ELEC	CTRIC	HEAT	ERS	
TAG	MODEL#	HEATING	CAPACITY	ELECTRIC DATA VOLTS-PHASE-AMPS	REMARKS
120	TODEL #	WATTS	BTU/H		1,2,3,4
EWH - 1	934U0100B	1000	3412	120 - 1 - 8.7	1,2,3,4
EWH - 2	934U0100B	1000	3412	120 - 1 - 8.7	1,2,3,4
EWH - 3	934U0100B	1000	3412	120 - 1 - 8.7	1,2,3,4
EWH - 4	934U0100B	1000	3412	120 - 1 - 8.7	1,2,3,4
EWH - 5	934U0100B	1000	3412	120 - 1 - 8.7	1,2,3,4
EWH - 6	934U0100B	1000	3412	120 - 1 - 8.7	1,2,3,4
EWH - 7	934U0100B	1000	3412	120 - 1 - 8.7	1,2,3,4
EWH - 8	934U0100B	1000	3412	120 - 1 - 8.7	1,2,3,4
EWH - 9	934U0100B	1000	3412	120 - 1 - 8.7	1,2,3,4
EWH - 10	934U0100B	1000	3412	120 - 1 - 8.7	1,2,3,4
EWH - 11	934U0100B	1000	3412	120 - 1 - 8.7	1,2,3,4

1. PROVIDE WITH 22 GAUGE SECURITY FRONT COVER IN NORTHERN WHITE COLOR.

2. PROVIDE WITH BUILT-IN THERMOSTAT. 3. PROVIDE WITH FACTORY FURNISHED AUTOMATIC RESET THERMAL OVERLOAD PROTECTOR. 4. BASED ON INDEECO.

			С	ABINE	IT U	NIT	HEA	TER	SCHEDUL	_E					
UNIT NO.	MODEL#	CFM	E.A.T.	L.A.T.	GPM	EWT	LWT	MBH	PRESSURE	ROWS/FPI	١	MOTORI	DATA		REMARKS
ONIT NO.	TIODLE #	OITT	deg F	deg F					DROP, FT-H2O		HP	VOLTS	PHASE	FLA	REMARKS
CUH-1	RFRC-420-02	125	65	90.1	.2	140	110	3.4	.1	1/12	1/30	120	1	.6	1,2,3,4,5,6
CUH-2	RFRC-420-02	125	65	84.3	.1	140	100	2.6	.1	1/12	1/30	120	1	.6	1,2,3,4,5,6
CUH-3	RFRC-420-02	125	65	90.1	.2	140	110	3.4	.1	1/12	1/30	120	1	.6	1,2,3,4,5,6
CUH-4	RFRC-420-02	125	65	90.1	.2	140	110	3.4	.1	1/12	1/30	120	1	.6	1,2,3,4,5,6
CUH-5	RFRC-420-02	125	65	99.6	.5	140	120	4.7	.1	1/12	1/30	120	1	.6	1,2,3,4,5,6
CUH-6	RFRC-420-02	125	65	99.6	.5	140	120	4.7	.1	1/12	1/30	120	1	.6	1,2,3,4,5,6
CUH-7	RFRC-420-02	125	65	99.6	.5	140	120	4.7	.1	1/12	1/30	120	1	.6	1,2,3,4,5,6
CUH-8	RFRC-420-02	125	65	97.4	.5	140	120	5.3	.1	1/12	1/30	120	1	.6	1,2,3,4,5,6
CUH-9		125	65	97.4	.5	140	120	5.3	.1	1/12	1/30	120	1	.6	1,2,3,4,5,6
CUH-10		125	65	97.4	.5	140	120	5.3	.1	1/12	1/30	120	1	.6	1,2,3,4,5,6

1. BASED ON RITTLING 2. PROVIDE WITH 14 GAUGE CABINET AND FRONT PANEL.

3. PROVIDE WITH ALLEN KEY CAM LOCK FASTNERS

4. PROVIDE WITH FACTORY FURNISHED DISCONNECT SWITCH, MOTOR STARTERS AND V-D8E VALVE PACKAGE.
5. PROVIDE WITH UNIT MOUNTED THERMOSTAT.

6. PROVIDE WITH PERMANENT SPLIT CAPACITOR MOTOR.

		[EXPA	NSION	I TANK	SCHE	EDULE		
SYMBOL	MANUFACTURER MODEL NUMBER	SYSTEM	TYPE	LOCATION	CONNECTION	TANK VOLUME (GAL)	SIZE (DIAXH)	SHIPPING WEIGHT	NOTES
EXT-1	TACO CA-450	HEATING	VERTIC AL	BOILER ROOM	1-1/2"	119	24×77	400	1,2

1. PROVIDE ASME TANK. 2. MOUNT ON 4" HOUSE KEEPING PAD.

	AIR SEPA	RAT	ORS	SCHED	ULE	
SYMBOL	MANUFACTURER MODEL NUMBER	DIA (INCH)	HEIGHT (INCH)	OPTIMUM FLOW GPM	SYSTEM SERVED	NOTE
AS-1	TACO 4908AD-125	18	42	816	HEATING	1,2,3

1. PROVIDE ASME TANK. 2. PROVIDE WITH AIR VENT

3. PROVIDE WITH BLOWDOWN VALVE AND FLUSH VALVE.

		UI	VIT	HE.	ATE	R S	SCH	EDI	JLE				
						HEAT	ING CAPA	ACITY			M	OTOR	NOTES
TAG	MANUFACTURER	MODEL			CF_	EAT	LAT	EWT	LWT	MAX PD	IVIC	JION	NOILS
		10000	MBH	GPM)	(°F)	(°F)	(°F)	(°F)	(FT.H2O)	HP	VOLTS/PH	
-1	RITTLING	RH-63	24.8	2.5	870	55	80.5	140	120	.1	1/10	115/1	1,2,3

1. FURNISH WITH MOTOR WITH INTERNAL THERMAL OVERLOAD

2. DISCONNECT SWITCH SHALL BE PROVIDED BY DIVISION 26. 3. SEISMICALLY SUPPORT.

			CON	IDENS	ING	ВО	ILER S	CHED	ULE				
	MAXIMUM	MAXIMUM	SUPPLY	RETURN			BURNER			ELECTRICAL			
	INPUT MBTU/hr		WATER TEMP DEG. F	WATER TEMP DEG. F	FUEL	GAS PRESS	CAPACITY CONTROL	TURNDOWN RATIO	IGNITION	VOLTS/PHASE	THERMAL EFFICIENCY	MODEL #	NOTES
B-1	800	760	140	120	GAS	4-14	MODULATING	5 TO 1	ELECTRONIC	120 / 1 (16A)	93.5	APX825C	1,2,3,4,5,6
B-2	800	760	140	120	GAS	4-14	MODULATING	5 TO 1	ELECTRONIC	120 / 1 (16A)	93.5	APX825C	1,2,3,4,5,6

1. CONTRACTOR SHALL PROVIDE STAINLESS STEEL FLUE MATERIAL. 2. PROVIDE WITH FACTORY BOILER MANAGEMENT SYSTEM ACS, WITH BACNET COMPATIBILITY. 3. PROVIDE WITH BOILER SUPPLIED ISOLATION KIT.

4. BASED ON THERMAL SOLUTION-APEX BOILERS.

5. PROVIDE WITH CONDENSATE NEUTRALIZATION TANK SYSTEM.

6. MOUNT ON 4" HOUSE KEEPING PAD.

			E	ΣXΗ	IAUS	T F	AN	SCH	IEDU	LE				
					STATIC PRESS		l l	ELECTRIC/	¥L		WEIGHT			
SYMBOL	MFGR	MODEL	TYPE	CFM	(IN. WG.)	FAN RPM	VOLTS	PHASE	HP (WATTS)	AMPS	(LBS)	SONES	INTERLOCKED WITH	REMARKS
EF-1	COOK	GCVF-180	CEILING	100	.375	930	120	1	(15)	1.2	23	2.5	SPEED CONTROL BMS	1,2,3,4,5
EF-2	COOK	GCVF-180	CEILING	100	.375	930	120	1	(15)	1.2	23	2.5	SPEED CONTROL BMS	1,2,3,4,5
EF-3	COOK	GCVF-180	CEILING	100	.5	1018	120	1	(19)	1.2	23	2.5	SPEED CONTROL BMS	1,2,3,4,5
EF-4	COOK	GCVF-180	CEILING	100	.5	1018	120	1	(19)	1.2	23	2.5	SPEED CONTROL BMS	1,2,3,4,5
EF-5	COOK	101C28D (VF)	ROOF	800	.750	1909	120	1	1/3	3.6	75	12.4	SPEED CONTROL BMS	1,2,3,4,5
EF-6	COOK	GCVF-180	CEILING	100	.375	930	120	1	(15)	1.2	23	2.5	SPEED CONTROL BMS	1,2,3,4,5
EF-7	COOK	GCVF-180	CEILING	100	.375	930	120	1	(15)	1.2	23	2.5	SPEED CONTROL BMS	1,2,3,4,5
EF-8	COOK	101C28D (VF)	ROOF	800	.750	1909	120	1	1/3	3.6	75	12.4	SPEED CONTROL BMS	1,2,3,4,5
EF-9	COOK	GCVF-180	CEILING	100	.375	930	120	1	(15)	1.2	23	2.5	SPEED CONTROL BMS	1,2,3,4,5
EF-10	COOK	GCVF-180	CEILING	100	.375	930	120	1	(15)	1.2	23	2.5	SPEED CONTROL BMS	1,2,3,4,5
EF-11	COOK	90C17DEC	ROOF	100	.5	1349	120	1	(23)	1.2	63	4.8	SPEED CONTROL BMS	1,2,3,4,5
EF-12	COOK	90C17DEC	ROOF	100	.5	1349	120	1	(23)	1.2	63	4.8	SPEED CONTROL BMS	1,2,3,4,5
EF-13	COOK	GCVF-180	CEILING	100	.375	930	120	1	(15)	1.2	23	2.5	SPEED CONTROL BMS	1,2,3,4,5

REMARKS:

1. PROVIDE WITH FACTORY WIRED DISCONNECT AND GRAVITY BACKDRAFT DAMPER.

2. FAN INTERLOCKS INDICATED ABOVE SHALL BE WIRED UNDER DIVISION 26. 3. UNLESS NOTED OTHERWISE, MOUNT SPEED CONTROL SWITCH NEXT TO UNIT FOR BALANCING PURPOSES.

4. TRANSITION DUCTWORK ON INLET AND OUTLET OF EACH FAN TO MATCH SIZES SHOWN ON PLANS. 5. CAPACITIES LISTED ARE WITH UTILIZING FAN SPEED CONTROLLER,NOT THE MAXIMUM CAPACITY.

					DUCTLESS	SPLIT SY	STEM SCI	HEDULE							
	MANUFACTURER /	AREA	NOMINAL COOLING	NOMINAL HEATING	CFM	EAT	AMBIENT AIR TEMP	ELE	ECTRICAL			REFRIGER	ANT LINES		REMARKS:
SYMBOL	MODEL	SERVED	CAPACITY (BTU/h)	CAPACITY (BTU/h)		(DB/WB)	(°F)	VOLTS	PH	MCA	MOCP	LQ (IN)	SUCT (IN)	TYPE	
AC-1	MITSUBISHI / PKA-A18HA7	RM A-102	18,000	22,000	425	90/73		208	1	1.0		1/4	1/2	R410A	1,2,3,4
CU-1	MITSUBISHI / PUZ-A18NKA7				1590		95	208	1	11	28	1/4	1/2	R410A	5,6,7,8
AC-2	MITSUBISHI / PKA-A18HA7	RM B-158	18,000	22,000	425	90/73		208	1	1.0		1/4	1/2	R410A	1,2,3,4
CU-2	MITSUBISHI / PUZ-A18NKA7				1590		95	208	1	11	28	1/4	1/2	R410A	5,6,7,8

1. PROVIDE WITH WALL MOUNTED MITSUBISHI ROOM CONTROLLER, #PAR-32MAA. 2. CONTRACTOR TO VERIFY PIPE ROUTING WITH WORK OF OTHER TRADES. CONTRACTOR TO VERIFY

REFRIGERANT PIPE SIZES WITH MFGR. PRIOR TO ORDERING EQUIPMENT. 3. CONTRACTOR SHALL FIELD SUPPLY INTERCONNECTING CABLE BETWEEN OUTDOOR CONDENSING UNIT

AND INTERIOR EVAPORATOR UNIT. 4. PROVIDE WITH MICRO-BLUE CONDENSATE PUMP, #X85-003 AND FASCIA KIT #T18-016. DRAIN TO NEAREST

CODE ACCEPTABLE LOCATION.

5. PROVIDE WITH LOW AMBIENT HOOD KIT WITH ASSOCIATED WIND BAFFLES. 6. PROVIDE WITH LOW AMBIENT KIT. CONTRACTOR TO VERIFY REFRIGERANT PIPE SIZES WITH MFGR PRIOR TO

7. PROVIDE WITH SNOW/HAIL GUARDS KIT. 8. PROVIDE WITH BASE PAN HEADER KIT.

		SUPPLY	:AN			EXHAUST	FAN MIN	_	CC	OOLING			HEAT	TING			ERV DATA SUMMER	CONDITIONS			ERV DA	ATA WINTER CONDITIC	NS	ELEC	CTRICAL	-	
YMBOL	MODEL	TOTAL OTY	/ LID 07/ / DLI	2004	Top Top		OUTSIL AIR		PACITY SENS	EAT db/wb	AMBIENT	INPUT	OUTPUT	EAT	LAT AMBIENT		OUTSIDE AIR			VENT. SUPPLY	OUTSIDE AIR	RETURN SUPPLY		VOLTS/Ø	MCA	FLA	MOP WEIGHT NOTES
		CFM QTY	/HP QTY/BH		ESP 15P	CIY/BHP	RPM (CFM)	TOTAL (MBH)	SENS. (MBH)	(°F)	(°F)	MBH	MBH di	lb-°F c	db-°F (°F)	CFM / DB / WB	CFM / DB / WB	CFM / DB / WB	CFM / DB / WB	CFM / DB / WB	CFM / DB / WB	CFM / DB / WB	CFM / DB / WB	, 5 2 , 5 , 2			(LBS)
U-1	RN-050-8-0-EAOA	17,100 2/2	2 / 15.2	1538	4.0	2 / 7.35	1311 4,691	497.7	377.76	63/51	95	810	648 7	70.6	105.7 0	4,691 / 78.8 / 65	4,691 / 95 / 75	12,409 / 75 / 62	4,691 / 91 / 72	4,691 / 59 / 51.6	4,691 / 0 / -1	12,409 / 75 / 62	4,691 / 17.8 / 17.73	208/3	432	417	450 9,000 1,2,3
J-2	RN-040-8-0-EAOA	A 15,570 2/2	2 / 15.5	1234	4.0	2/6.10	1234 3,115	342.4	278	63/53	95	540	432 7	72.5	98.2 0	3,115 / 78 / 65	3,115 / 95 / 75	12,453 / 75 / 62	3,115 / 92 / 73	3,115 / 62.3 / 53.7	3,115 / 0 / -1	12,453 / 75 / 60	3,115 / 14.7 / 14.6	208/3	333	318	350 8,200 1,2,3
J-3	RN-020-8-0-EAOA	8,016 1 / 15	1/ 12.5	1904	4.0	1/9.1	1904 1,302	195.4	158.22	62/52	95	270	218	73	98.4 0	1,302 / 78 / 65	1,302 / 95 / 75	6,714 / 75 / 62	1,302 / 92 / 73	1,302 / 64 / 54.4	1,302 / 0 / -1	6,714 / 75 /62	1,302 / 13.64 / 13.53	208/3	180	166	225 4,500 1,2,3
U-4	RN-031-8-0-EA0A	12, 145 1 / 20	1/ 17.3	1557	4.0	2/3.99	1288 2,491	306.8	242.2	62/52	95	540	432	73	105.6 0	2,495 / 77.7 / 64.5	2,495 / 95 / 75	9,651 / 75 / 62	2,495/92/73	2,495 / 64 / 55	2,495/0/-1	9,651 / 75 /62	2,495 / 13.4 / 13.3	208/3	249	234	300 7,700 1,2,3

2. FURNISH UNIT WITH ROOF CURB, MODULATING OA/RA DAMPER WITH ECONOMIZER CONTROL. FACTORY FURNISHED DISCONNECT, SINGLE POINT POWER CONNECTION, MODULATING HOT GAS REHEAT, 439 STAINLESS STEEL FURNACE, VARIABLE SPEED DIRECT DRIVE POWERED EXHAUST, 2 INCH WALL CONSTRUCTION, STAINLESS STEEL IAQ APPROVED DRIP PAN, UV LIGHTS, DIGITAL COMPRESSORS, ENERGY RECOVERY WHEELS, HOT GAS RE-HEAT. PROVIDE MERV 8 PRE-FILTERS AND MERV 12

3. DUCT MOUNTED SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA-72

Project Title:
Hinsdale Elementary School Drawing Title:

MECHANICAL Revision: Description: Date: Revised By: Date: Drawing Number: SILVER / PETRUCELLI + ASSOCIATES JUNE 30, 2020 Architects / Engineers / Interior Designers SCHEDULES M901 3190 Whitney Avenue, Hamden, CT 06518-2340 15 Hinsdale Ave. Tel. 203 230 9007 Fax. 203 230 8247 Project Number: Winsted, Connecticut 06098 silverpetrucelli.com 18.223

					R	TU-1	VARIAE	BLE AIR V	OLUME/	ВОХ	SCHED	ULE				
REF.	UNIT	INLET	MODEL	MFGR	COOLI	NG	ELECT. DAT.	A	HEAT	ING CAPACI	T Y					
NO.	SIZE	DIA. (IN)			CFM MAX.	CFM MIN.	V	МВН	EWT	LWT	COIL GPM	COIL ROWS	EAT	LAT	W.P.D.	REMARKS
VAV 1-1	10	8"	D30RW	NAILOR	900	450	24	14.6	140	121.5	1.6	1	55	70	2.3	1,2,3,4,5,6,7,8
VAV 1-2	12	10"	D30RW	NAILOR	1400	700	24	22.6	140	125.5	3.1	1	55	70	9.6	1,2,3,4,5,6,7,8
VAV 1-3	12	10"	D30RW	NAILOR	1400	700	24	22.6	140	125.5	3.1	1	55	70	9.6	1,2,3,4,5,6,7,8
VAV 1-4	10	10"	D30RW	NAILOR	1100	550	24	17.3	140	126.3	2.5	1	55	70	5.49	1,2,3,4,5,6,7,8
VAV 1-5	10	8"	D30RW	NAILOR	890	445	24	14.4	140	121.6	1.6	1	55	70	2.3	1,2,3,4,5,6,7,8
VAV 1-6	6	6"	D30RW	NAILOR	360	180	24	5.9	140	116.4	.5	1	55	70	.16	1,2,3,4,5,6,7,8
VAV 1-7	12	10"	D30RW	NAILOR	1135	565	24	18.4	140	117.2	1.6	1	55	70	2.69	1,2,3,4,5,6,7,8
VAV 1-8	12	10"	D30RW	NAILOR	1135	565	24	17.4	140	126.2	2.5	1	55	70	5.49	1,2,3,4,5,6,7,8
VAV 1-9	4	4"	D30RW	NAILOR	60	30	24	.9	140	93.3	.5	1	55	74.9	.25	1,2,3,4,5,6,7,8
VAV 1-10	6	6"	D30RW	NAILOR	445	220	24	7.2	140	120	.31	1	55	69.4	.31	1,2,3,4,5,6,7,8
VAV 1-11	4	4"	D30RW	NAILOR	130	65	24	2.0	140	96.8	.10	1	55	70.5	.10	1,2,3,4,5,6,7,8
VAV 1-12	4	4"	D30RW	NAILOR	110	55	24	1.7	140	98.6	.10	1	55	72.8	.10	1,2,3,4,5,6,7,8
VAV 1-13	4	4"	D30RW	NAILOR	165	80	24	2.7	140	94.3	.10	1	55	67.6	.10	1,2,3,4,5,6,7,8
VAV 1-14	4	4"	D30RW	NAILOR	70	35	24	1.10	140	91.8	.10	1	55	72.8	.10	1,2,3,4,5,6,7,8
VAV 1-15	10	8"	D30RW	NAILOR	875	435	24	14.2	140	121.7	1.6	1	55	70.2	2.32	1,2,3,4,5,6,7,8
VAV 1-16	10	8"	D30RW	NAILOR	875	435	24	14.2	140	121.7	1.6	1	55	70.2	2.32	1,2,3,4,5,6,7,8
VAV 1-17	10	8"	D30RW	NAILOR	875	435	24	14.2	140	121.7	1.6	1	55	70.2	2.32	1,2,3,4,5,6,7,8
VAV 1-18	10	8"	D30RW	NAILOR	875	435	24	14.2	140	121.7	1.6	1	55	70.2	2.32	1,2,3,4,5,6,7,8
VAV 1-19	10	8"	D30RW	NAILOR	875	435	24	14.2	140	121.7	1.6	1	55	70.2	2.32	1,2,3,4,5,6,7,8
VAV 1-20	8	8"	D30RW	NAILOR	560	280	24	9.0	140	110.5	.6	1	55	69.4	.32	1,2,3,4,5,6,7,8

REMARKS:

- 1. TRANSITION ON INLET AND OUTLET OF UNITS AS REQUIRED TO MANUFACTURERS RECOMMENDATIONS.
- 1. I KANSTITUN ON INLET AND OUTLET OF UNITS AS REQUIRED TO MANUFACTURERS RECOMMENDATIONS.

 2. PROVIDE EACH VAV WITH DISCONNECT SWITCH, CONTROL TRANSFORMER AND SAFETY INTERLOCKS, EACH UNIT SHALL BE CONTROLLED BY WALL MOUNTED THERMOSTAT, THERMOSTAT FURNISHED AND INSTALLED BY CONTROLS CONTRACTOR.

 3. CONTROLS FURNISHED BY TEMPERATURE CONTROL CONTRACTOR AND MOUNTED BY DAMPER MANUFACTURER.

 4. PROVIDE MULTIPLE DAMPERS ACTUATORS CONTROL ETC. AS REQUIRED TO ACHIEVE LISTED QUANTITIES. CONTRACTORS TO DUCT AS REQUIRED.

 5. DAMPERS SHALL BE NAILOR, TRANE OR PRICE.

 6. ALL VAV BOXES AND COILS SHALL BE ARI RATED.

 7. PROVIDE WITH ELECTRICAL CONTROL (DDC INTERFACE)TO BMS.

 8. ALL VAV BOXES SHALL BE ARI CERTIFIED.

					R ⁻	TU-3	VARIABL	_E AIR V	'OLUME	BOX	SCHED	ULE				
REF.	UNIT	INLET	MODEL	MFGR	COOLI	NG	ELECT. DATA		HEAT	ING CAPACI	TY					
NO.	SIZE	DIA. (IN)			CFM MAX.	CFM MIN.	V	МВН	EWT	LWT	COIL GPM	COIL ROWS	EAT	LAT	W.P.D. (FT)	REMARKS
VAV 3-1	12	10"	D30RW	NAILOR	1335	665	24	21.4	140	123.6	2.6	1	55	69.7	6.86	1,2,3,4,5,6,7,8
VAV 3-2	12	10"	D30RW	NAILOR	1470	735	24	23.8	140	127.9	3 <i>.9</i>	1	55	69.7	15.0	1,2,3,4,5,6,7,8
VAV 3-3	4	4"	D30RW	NAILOR	110	55	24	1.8	140	98.2	.1	1	55	72.3	.1	1,2,3,4,5,6,7,8
VAV 3-4	8	8"	D30RW	NAILOR	685	340	24	11.1	140	119.4	1.1	1	55	70.10	1.04	1,2,3,4,5,6,7,8
VAV 3-5	4	4"	D30RW	NAILOR	170	85	24	2.8	140	101.6	.15	1	55	70.5	.10	1,2,3,4,5,6,7,8
VAV 3-6	6	6"	D30RW	NAILOR	350	175	24	5.7	140	113.0	.4	1	55	69.10	.11	1,2,3,4,5,6,7,8
VAV 3-7	6	6"	D30RW	NAILOR	260	130	24	4.2	140	110.5	.3	1	55	70.6	.10	1,2,3,4,5,6,7,8
VAV 3-8	6	6"	D30RW	NAILOR	240	120	24	4.0	140	103.8	.2	1	55	68.7	.1	1,2,3,4,5,6,7,8
VAV 3-9	8	8"	D30RW	NAILOR	470	235	24	7.6	140	108.6	.5	1	55	70.2	.23	1,2,3,4,5,6,7,8
VAV 3-10	8	8"	D30RW	NAILOR	560	280	24	9.5	140	116.3	.85	1	55	70.6	.63	1,2,3,4,5,6,7,8
VAV 3-11	6	6	D30RW	NAILOR	400	200	24	6.5	140	118.4	.60	1	55	69.8	.23	1,2,3,4,5,6,7,8
VAV 3-12	4	4"	D30RW	NAILOR	140	70	24	2.3	140	95.8	.1	1	55	69.3	.1	1,2,3,4,5,6,7,8
VAV 3-13	4	4"	D30RW	NAILOR	170	85	24	2.7	140	94.3	.1	1	55	67.6	.1	1,2,3,4,5,6,7,8
VAV 3-14	4	4"	D30RW	NAILOR	145	70	24	2.3	140	95.6	.1	1	55	69.2	.1	1,2,3,4,5,6,7,8
VAV 3-15	4	4"	D30RW	NAILOR	70	35	24	1.1	140	91.5	.1	1	55	72.4	.1	1,2,3,4,5,6,7,8
VAV 3-16	6	6"	D30RW	NAILOR	275	135	24	4.4	140	110	.30	1	55	70	.1	1,2,3,4,5,6,7,8
VAV 3-17	10	8"	D30RW	NAILOR	860	430	24	13.9	140	119.3	1.35	1	55	69.8	1.67	1,2,3,4,5,6,7,8

REMARKS:

- 1. TRANSITION ON INLET AND OUTLET OF UNITS AS REQUIRED TO MANUFACTURERS RECOMMENDATIONS.
 2. PROVIDE EACH VAV WITH DISCONNECT SWITCH, CONTROL TRANSFORMER AND SAFETY INTERLOCKS, EACH UNIT SHALL BE CONTROLLED BY WALL MOUNTED THERMOSTAT. THERMOSTAT FURNISHED AND INSTALLED BY CONTROLS CONTRACTOR.
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- 8. ALL VAV BOXES SHALL BE ARI CERTIFIED.

RTII-2	VARIARIF	ΔIR	VOLUME	ROX	SCHEDULE
NIO Z	VANIADEL	HIII	V O L O IVI L	DON	JOHLDOLL

REF.	UNIT	INLET	MODEL	. MFGR	COOLING ELECT. DA		ELECT. DATA	HEATING CAPACITY						
NO. S	SIZE	DIA. (IN)			CFM MAX.	CFM MIN.	\ \ \	МВН	EWT	LWT	COIL GPM	COIL ROWS	EAT	LAT W.P.D. REMARKS (FT)
VAV 2-1	12	10"	D30RW	NAILOR	1300	650	24	21.0	140	122.6	2.4	1	55	69.7 5.88 1,2,3,4,5,6,7,8
VAV 2-2	12	10"	D30RW	NAILOR	1300	650	24	21.0	140	122.6	2.4	1	55	69.7 5.88 1,2,3,4,5,6,7,8
VAV 2-3	12	10"	D30RW	NAILOR	1300	650	24	21.0	140	122.6	2.4	1	55	69.7 5.88 1,2,3,4,5,6,7,8
VAV 2-4	12	10"	D30RW	NAILOR	1300	650	24	21.0	140	122.6	2.4	1	55	69.7 5.88 1,2,3,4,5,6,7,8
VAV 2-5	10	8"	D30RW	NAILOR	810	405	24	13.0	140	116.4	1.1	1	55	69.7 1.13 1,2,3,4,5,6,7,8
VAV 2-6	4	4"	D30RW	NAILOR	90	45	24	1.4	140	89.2	.10	1	55	69.5 .10 1,2,3,4,5,6,7,8
VAV 2-7	6	6"	D30RW	NAILOR	255	130	24	4.1	140	110.6	.3	1	55	70.8 .1 1,2,3,4,5,6,7,8
VAV 2-8	8	8"	D30RW	NAILOR	490	245	24	8.0	140	108.2	.5	1	55	69.8 .23 1,2,3,4,5,6,7,8
VAV 2-9	4	4"	D30RW	NAILOR	155	75	24	2.5	140	95.1	.1	1	55	68.5 .10 1,2,3,4,5,6,7,8
VAV 2-10	8	8"	D30RW	NAILOR	520	260	24	8.4	140	111.2	.6	1	55	70.2 .320 1,2,3,4,5,6,7,8
VAV 2-11	12	10"	D30RW	NAILOR	1415	705	24	22.9	140	126.2	3.3	1	55	69.7 10.87 1,2,3,4,5,6,7,8
VAV 2-12	12	10"	D30RW	NAILOR	1415	705	24	22.9	140	126.2	3.3	1	55	69.7 10.87 1,2,3,4,5,6,7,8
VAV 2-13	12	10"	D30RW	NAILOR	1415	705	24	22.9	140	126.2	3.3	1	55	69.7 10.87 1,2,3,4,5,6,7,8
VAV 2-14	12	10"	D30RW	NAILOR	1415	705	24	22.9	140	126.2	3.3	1	55	69.7 10.87 1,2,3,4,5,6,7,8
VAV 2-15	10	10"	D30RW	NAILOR	1050	525	24	17.0	140	125.4	2.3	1	55	69.5 4.6 1,2,3,4,5,6,7,8
VAV 2-16	10	10"	D30RW	NAILOR	1050	525	24	17.0	140	125.4	2.3	1	55	69.5 4.6 1,2,3,4,5,6,7,8
VAV 2-17	6	6"	D30RW	NAILOR	355	175	24	5.8	140	112.9	.4	1	55	68.9 .11 1,2,3,4,5,6,7,8
VAV 2-18	6	6"	D30RW	NAILOR	210	105	24	3.4	140	105.2	.2	1	55	70.4 .1 1,2,3,4,5,6,7,8

- 1. TRANSITION ON INLET AND OUTLET OF UNITS AS REQUIRED TO MANUFACTURERS RECOMMENDATIONS.
- 2. PROVIDE EACH VAV WITH DISCONNECT SWITCH, CONTROL TRANSFORMER AND SAFETY INTERLOCKS. EACH UNIT SHALL BE CONTROLLED BY WALL MOUNTED THERMOSTAT. THERMOSTAT FURNISHED AND INSTALLED BY CONTROLS CONTRACTOR.
- 3. CONTROLS FURNISHED BY TEMPERATURE CONTROL CONTRACTOR AND MOUNTED BY DAMPER MANUFACTURER. 4. PROVIDE MULTIPLE DAMPERS ACTUATORS CONTROL ETC. AS REQUIRED TO ACHIEVE LISTED QUANTITIES. CONTRACTORS TO DUCT AS REQUIRED. 5. DAMPERS SHALL BE NAILOR, TRANE OR PRICE.
- 6. ALL VAV BOXES AND COILS SHALL BE ARI RATED.
- 7. PROVIDE WITH ELECTRICAL CONTROL (DDC INTERFACE)TO BMS.
- 8. ALL VAV BOXES SHALL BE ARI CERTIFIED.

	RTU-4 VARIABLE AIR VOLUME BOX SCHEDULE															
REF. UNIT INLET MODEL MFGR COOLING			NG	ELECT. DATA	LECT. DATA HEATING CAPACITY											
NO.	SIZE	DIA. (IN)			CFM MAX.	CFM MIN.	V	МВН	EWT	LWT	COIL GPM	COIL ROWS	EAT	LAT	W.P.D.	REMARKS
VAV 4-1	16	16"	D30RW	NAILOR	2500	1250	24	40.4	140	92	1.69	2	55	69.8	.39	1,2,3,4,5,6,7,8
VAV 4-2	4	4"	D30RW	NAILOR	75	35	24	1.2	140	89	.1	1	55	70.5	.1	1,2,3,4,5,6,7,8
VAV 4-3	4	4"	D30RW	NAILOR	155	75	24	2.5	140	95	.1	1	55	68.4	.1	1,2,3,4,5,6,7,8
VAV 4-4	14	14"	D30RW	NAILOR	2100	1050	24	34.1	140	88.2	1.3	2	55	69.8	.58	1,2,3,4,5,6,7,8
VAV 4-5	24	16"	D30RW	NAILOR	3400	1700	24	55.2	140	115.8	4.6	1	55	69.9	6.27	1,2,3,4,5,6,7,8

REMARKS:

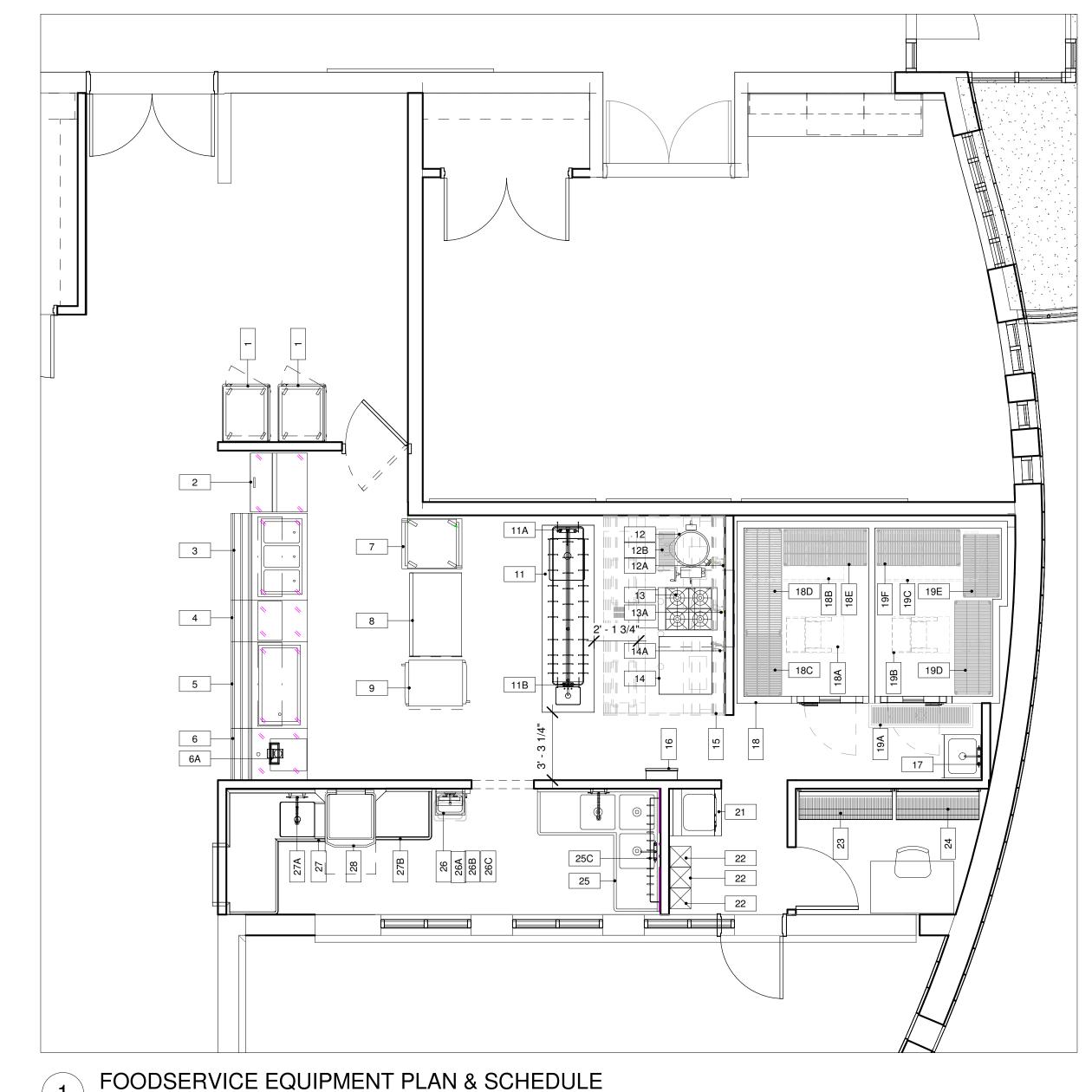
- 1. TRANSITION ON INLET AND OUTLET OF UNITS AS REQUIRED TO MANUFACTURERS RECOMMENDATIONS.
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Hinsdale Elementary School	SILVER / PETRUCELLI + ASSOCIATES Architects / Engineers / Interior Designers Revision: Description: Date: Revised By:	Drawing Title: MECHANICAL	Date: Drawing Number: JUNE 30, 2020
		SCHEDULES	Scale: M902
	3190 Whitney Avenue, Hamden, CT 06518-2340		MZ
15 Hinsdale Ave.	Tel. 203 230 9007 Fax. 203 230 8247		Project Number:
Winsted, Connecticut 06098	silverpetrucelli.com ————————————————————————————————————		18.223

	1 ()	ハンシニロとにい	- FUJUJIPIVIFI	NT PLAN & SCHEDULE
	TY EQUIPMENT CATEGORY	MANUFACTURER	MODEL NUMBER	EQUIPMENT REMARKS
	2 COMBO CART PLUS - STANDARD CASTERS	CAMBRO	CMBP615	
	MILK COOLER	TURBO AIR	TMKC-34S-SS	
-	MODULAR HOT FOOD COUNTER	MULTITERIA	HLS-3-QS	
4	MODULAR UTILITY COUNTER	MULTITERIA	ULS-24-QS	
5	MODULAR COLD FOOD COUNTER	MULTITERIA	CLS-3-QS	
6	MODULAR CASHIER STAND	MULTITERIA	CSO-30-QS BY OWNER	
6A 7	P.O.S. STATION	BY OWNER CRES COR	H-137-PSUA-12D	
-	1 INSULATED STAINLESS STEEL HOT CABINET	FABRICATOR	STAINLESS STEEL	
9	MORK TABLE REFRIGERATOR PASS-THROUGH	VICTORY	RS-1D-S1-PT	
	SPARE NUMBER	-	-	
11	PREP TABLE W/ SINKS	FABRICATOR	STAINLESS STEEL	
11A		T&S BRASS	B-1121	
	DECK MOUNT FAUCET	T&S BRASS	B-1110	
12	DIRECT STEAM KETTLE	GROEN	D-20	
	SAFTY SYSTEM MOVEABLE GAS CONNECTON	DORMONT MANUFACTURING	1675KIT2S48PS	
12B	FLOOR TROUGH	EAGLE GROUP	ASFT-1224-SG	
13	4 OPEN BURNERS, SPACE SAVER OVEN	SOUTHBEND	S24E	
13A	SAFTY SYSTEM MOVEABLE GAS CONNECTON	DORMONT MANUFACTURING	1675KIT2S48PS	
14	GAS COMBI-STEAMER	RATIONAL AG	SCC / CMP COMBI-DUO 61 G ON 61 G	
14A	SAFTY SYSTEM MOVEABLE GAS CONNECTON	DORMONT MANUFACTURING	1675KIT2S48PS	
	1 EXHAUST HOOD	HALTON	KVE	REFER TO HALTON DRAWINGS FOR DETAILS & SPECIFICATIONS
	SAFTY SYSTEM MOVEABLE GAS CONNECTON	DORMONT MANUFACTURING	1675KIT2S48PS	
	FIRE SUPPRESSION			
17	MOP SINK CABINET	ADVANCE TABCO	9-OPC-84	
17A	DECK MOUNT FAUCET	T&S BRASS	B-1121	
	WALK-IN FREEZER	AMERICAN PANEL	TBD	PETER TO AMERICAN DANIEL DRAWINGS FOR DETAILS & OPEGIFICATIONS
	EVAPORATOR, COOLER	AMERICAN PANEL AMERICAN PANEL	TBD	REFER TO AMERICAN PANEL DRAWINGS FOR DETAILS & SPECIFICATIONS REFER TO AMERICAN PANEL DRAWINGS FOR DETAILS & SPECIFICATIONS
	1 CONDENSER, COOLER 1 SHELVING, METAL	CUSTOM	CUSTOM	THE ENTRY AND AND DETAILS & SECURIOR TO SECURIOR
	1 SHELVING, METAL	CUSTOM	CUSTOM	
	SHELVING, METAL	CUSTOM	CUSTOM	
	1 WALK-IN FREEZER	AMERICAN PANEL	CUSTOM	
	1 FLOOR TROUGH	EAGLE GROUP	ASFT-1260-SG	
	1 EVAPORATOR, COOLER	AMERICAN PANEL	TBD	REFER TO AMERICAN PANEL DRAWINGS FOR DETAILS & SPECIFICATIONS
	CONDENSER, COOLER	AMERICAN PANEL	TBD	REFER TO AMERICAN PANEL DRAWINGS FOR DETAILS & SPECIFICATIONS
19D	SHELVING, METAL	CUSTOM	CUSTOM	
	SHELVING, METAL	CUSTOM	CUSTOM	
	SHELVING, METAL	CUSTOM	CUSTOM	
	SPARE NUMBER	-	-	
	WASHER/DRYER STACKABLE	GE	GUD27ESSMWW	
	B EMPLOYEE LOCKER	NEXEL NO. A FLEX	CS182AS	
	MOD-A-FLEX	MOD-A-FLEX MOD-A-FLEX		
	MOD-A-FLEX CORNER SINK, 3-COMPARTMENT	ADVANCE TABCO	94-K2-24D	
	PRE-RINSE FAUCET, WALL MOUNT	T&S BRASS	B-0133	
	DECK MOUNT FAUCET	T&S BRASS	B-1121	
	1 WALL POT RACK	AERO MANUFACTURING	SBGPR-60	
	1 HAND SINK	ADVANCE TABCO	7-PS-60	
_	1 PAPER TOWEL DISPENSER	BY VENDOR	BY VENDOR	
	SOAP DISPENSER	BY VENDOR	BY VENDOR	
	1 WASTE RECEPTACLE	RUBBERMAID	FG254300BLA	
	SOILED DISHTABLE	SELECT STAINLESS PRODUCTS	7SD-L-14	
	PRE-RINSE FAUCET, WALL MOUNT	T&S BRASS	B-0133	
27B	SOILED DISHTABLE	SELECT STAINLESS PRODUCTS	7SD-L-14	
28	1 WAREWASHER	HOBART	AM-15-1	



1 FOODSERVICE EQUIPMENT PLAN & SCHEDULE

1/4" = 1'-0"

HINSDALE SCHOOL ALTERATIONS 15 Hinsdale Ave. Winsted, CT 06098



SILVER / PETRUCELLI + ASSOCIATES Revision: Architects / Engineers / Interior Designers 3190 Whitney Avenue, Hamden, CT 06518-2340 Tel. 203 230 9007 Fax. 203 230 8247 silverpetrucelli.com

FOODSERVICE EQUIPMENT ch 20, 2020 1/4" = 1'-0"

Drawn By: PLAN & SCHEDULE Author
Project Number:
18.223 State Project #: 162-0043RNV

FS-1.2.1

Drawing Number:

PLUMBING ABBRVIATIONS

ABOVE FINISHED FLOOR BUILDING BOP BOTTOM OF PIPE CLEANOUT CODP CLEANOUT DECK PLATE CMCOFFEE MAKER CHECK VALVE CAPPED AND VALVED OUTLET CVOCW COLD WATER CLG CEILING CONN CONNECT CONTINUATION CONT DIAMETER DOWN DRAIN DWG DRAWING EXISTING EXISTING TO BE REMOVED (ERR) EXISTING TO BE REMOVED & RELOCATED EJ DIS EJECTOR DISCHARGE ELEVATION EWC ELECTRIC WATER COOLER FRESH AIR INLET FLOOR DRAIN FIXTURE UNIT FLOOR FLOOR HYDRANT GENERAL CONTRACTOR GALLONS GALLONS PER MINUTE HOSE BIBB HUNG CEILING HOT WATER HOT WATER RETURN INSIDE DIAMETER INDIRECT WASTE JANITOR'S SINK LAVATORY MAXIMUM MAX MINIMUM MOP RECEPTOR NTS NOT TO SCALE OUTSIDE DIAMETER OSEY OUTSIDE SCREW & YOKE GATE VALVE PLUMBING CONTRACTOR PUMP DISCHARGE PLUGGED OUTLET PRESSURE REDUCING VALVE POUNDS PER SQUARE INCH ROOF DRAIN SHOCK ABSORBER SANITARY SUMP PUMP DISCHARGE SHOWER SQUARE FEET STORM TYPICAL

URINAL

VENT

VTR V ENT THROUGH ROOF WASTE

WCO

WATER CLOSET

WALL CLEANOUT

WALL HYDRANT

PLUMBING SYSTEMS DEMOLITION NOTES

- 1. THIS PROJECT IS A PARTIAL DEMOLITION TO AN EXISTING FACILITY.
- ALL WORK SHALL BE PERFORMED PER CURRENT STATE APPLICABLE CODES, ORDINANCES AND PER REQUIREMENTS OF STATE AND LOCAL REGULATORY AGENCIES AND THE AUTHORITY HAVING
- REFER TO THE ARCHITECTURAL DEMOLITION DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. THE FULL EXTENT OF THE DEMOLITION AND RECONSTRUCTION SCOPE OF WORK SHALL BE DETERMINED BY THE ENTIRE SET OF BID DOCUMENTS.
- 4. BEFORE SUBMITTING BID, THE CONTRACTOR SHALL VISIT THE JOB SITE AND BECOME FULLY FAMILIAR WITH THE EXISTING CONDITIONS AND THE DOCUMENTS OF OTHER TRADES UNDER WHICH HIS WORK WILL BE ACCOMPLISHED. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS HE MADE AS A RESULT OF FAILURE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS.
- LOCATION OF EXISTING EQUIPMENT AND PIPING SHOWN ON FLOOR PLANS IS BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY EXACT LOCATION(S) OF EXISTING EQUIPMENT, APPURTENANCES AND PIPING IN THE FIELD PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- DEMOLITION DRAWINGS ARE STRICTLY DIAGRAMMATIC AND SHOW GENERAL ARRANGEMENT OF EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT LOCATION. IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW THE ENTIRE EXISTING MECHANICAL OR ELECTRICAL SYSTEMS.
- 7. MAJOR COMPONENTS AND MAINS OF SYSTEMS ARE USUALLY INDICATED. FIELD VERIFY LAYOUT AND LOCATIONS OF MISCELLANEOUS SYSTEMS. REMOVE MISCELLANEOUS ITEMS IN THE RENOVATED AREA.
- 8. IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW ALL EQUIPMENT, PIPING OR CONDUIT TO BE REMOVED. EQUIPMENT NOT BEING REUSED SHALL BE REMOVED, INCLUDING ALL ASSOCIATED HANGERS, SUPPORTS, PIPES, DUCTS, CONDUITS, WIRES, AND CONTROLS BACK TO THE POINT OF ORIGIN.
- 9. ALL EXISTING EQUIPMENT, FIXTURES AND DEVICES TO BE REMOVED SHALL BE FIELD VERIFIED FOR EXACT QUANTITY. NO EQUIPMENT, PIPING, DUCTWORK OR CONDUIT SHALL BE ABANDONED IN PLACE, UNLESS SPECIFICALLY NOTED.
- 10. THE CONTRACTORS SHALL COORDINATE THE DEMOLITION SCOPE OF WORK PRIOR TO COMMENCEMENT OF WORK. CARE MUST BE TAKEN SO AS NOT TO DESTROY, REMOVE OR DEMOLISH ANY EQUIPMENT, APPURTENANCES OR DEVICES INTENDED TO REMAIN.
- 11. INCLUDE ALL WORK REQUIRED TO ALLOW PARTIAL DEMOLITION AS REQUIRED. COORDINATE WITH TOWN OF GREENWICH FOR CONSTRUCTION PHASING REQUIREMENTS. PROVIDE TEMPORARY SERVICES AND SYSTEM MODIFICATIONS AS NECESSARY.
- 12. SHOULD THE CONTRACTOR ENCOUNTER, DURING DEMOLITION OF EXISTING WALLS OR CHASES, ANY PIPING OR CONDUIT WHICH MUST REMAIN ACTIVE, HE SHALL IMMEDIATELY GIVE NOTICE TO THE ENGINEER, GENERAL CONTRACTOR, AND OWNER'S REPRESENTATIVE.
- 13. ALL SALVAGEABLE MATERIALS OR EQUIPMENT TO REMOVED SHALL BE TURNED OVER TO THE OWNER AT THE END OF EACH DAY. ITEMS REMOVED AND NOT REUSED OR DISCLAIMED BY THE OWNER SHALL BECOME PROPERTY OF THE TRADE CONTRACTOR AND SHALL BE TRANSPORTED FROM THE SITE; SITE STORAGE OR REMOVED ITEMS WILL NOT BE PERMITTED.
- 14. PROPERLY DISPOSE OF ALL DEMOLISHED EQUIPMENT IN COMPLIANCE WITH THE CODES AND REGULATIONS; THIS APPLIES TO HAZARDOUS MATERIALS AND CONTAMINATED ITEMS TO BE DEMOLISHED.
- 15. ALL SYSTEMS TO BE REMOVED SHALL BE REMOVED BACK TO THE POINT OF SOURCE. THE CONTRACTOR SHALL VERIFY WHICH SYSTEMS MUST REMAIN ACTIVE TO SERVE ADJACENT SPACES DURING CONSTRUCTION.
- 16. ALL PIPING ASSOCIATED WITH THE PLUMBING FIXTURE OR EQUIPMENT INDICATED TO BE REMOVED OR RELOCATED SHALL BE DISCONNECTED AND REMOVED (INCLUDING HANGERS, INSULATION, AND OTHER COMPONENTS) UP TO NEAREST EXISTING ACTIVE MAIN OR BRANCH LINE AND CAPPED AS CLOSE TO THE
- 17. DEMOLITION DRAWINGS ARE STRICTLY DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT LOCATION AND PIPING. IT IS NOT THE INTENT OF THE DEMOLITION CONTRACT DRAWINGS TO SHOW ENTIRE EXISTING PIPING SYSTEM AND EQUIPMENT LAYOUT. ONLY MAJOR PIPING MAINS AND COMPONENTS ARE USUALLY INDICATED.
- 18. THE LOCATION OF EXISTING PLUMBING AND MECHANICAL SYSTEMS, SHOWN ON FLOOR PLANS, IS BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF BRANCH PIPING ASSOCIATED WITH THE FIXTURES OR EQUIPMENT TO BE REMOVED AND ADJUST AS NECESSARY.
- 19. LICENSED PLUMBERS WILL BE REQUIRED TO PERFORM THE DISCONNECTS AND RESPONSIBLE FOR ANY APPLICABLE PERMITS/INSPECTIONS. SEE SPECIFICATIONS FOR MORE INFORMATION.

SPECIAL REQUIREMENTS OF EXISTING FACILITIES AND CONDUCT OF WORK

THE BUILDING WILL NOT BE OCCUPIED AND NOT IN OPERATION DURING THE PROGRESS OF THE WORK. NO WORK SHALL BE LEFT INCOMPLETE NOR ANY HAZARDOUS SITUATIONS CREATED WHICH WILL AFFECT THE LIFE OR SAFETY OF THE PUBLIC AND/OR ADJACENT BUILDING OCCUPANTS.

WHEN NECESSARY TO DISCONNECT ANY EXISTING BUILDING UTILITIES AND PIPING SYSTEM, CONFER WITH THE OWNER AND ARRANGE THE PERIOD OF INTERRUPTION FOR A TIME MUTUALLY AGREED UPON.

IMPORTANT NOTICE:

THE EXISTING CONDITIONS REPRESENTED HEREON ARE BASED ON THE EXISTING DRAWINGS. THEY ARE INCLUDED FOR CONTRACTORS REFERENCE ONLY. ACTUAL LOCATION OF PIPING AND UTILITIES MAY VARY IN FIELD. PIPING CONTRACTOR SHALL VERIFY LOCATIONS IN FIELD AND MAKE ALLOWANCE IN BID FOR LOCATIONS AND ARRANGEMENTS OTHER THAN SHOWN.

SILVER / PETRUCELLI CANNOT GUARANTEE THE CORRECTNESS OF THE EXISTING CONDITIONS SHOWN AND ASSUMES NO RESPONSIBILITY THEREFOR. INCLUSION OF THESE EXISTING CONDITIONS HEREON SHALL IN NO WAY ALLEVIATE THE CONTRACTOR(S) OF THEIR RESPONSIBILITY TO VISIT THE SITE TO VERIFY ALL EXISTING CONDITIONS.

PLUMBING DRAWING LIST						
DRAWING NUMBER	DRAWING DESCRIPTION					
POO1	PLUMBING NOTES, ABBREVIATIONS & LEGEND					
PD101	PLUMBING DEMOLITION PLAN					
PD102	PLUMBING DEMOLITION ROOF PLAN					
P101	FLOOR PLAN - AREA A - PIPING					
P102	FLOOR PLAN - AREA B - PIPING					
P103	FLOOR PLAN - AREA C - PIPING					
P104	PLUMBING ROOF PLAN					
P401	PLUMBING ENLARGED KITCHEN PLAN					
P601	PLUMBING RISER DIAGRAMS					
P801	PLUMBING DETAILS					
P802	PLUMBING DETAILS					
P901	PLUMBING SCHEDULES					
P902	PLUMBING SCHEDULES					
P903	PLUMBING SCHEDULES					

PLUMBING SYSTEMS GENERAL NOTES

- 1. THE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT AND PIPING. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EQUIPMENT AND PIPING INSTALLATION WITH ALL TRADES BEFORE COMMENCING WORK.
- 2. THIS CONTRACTOR SHALL INCLUDE ALL THE NECESSARY PIPING, FITTINGS, TRANSITIONS, ETC. AS NECESSARY TO INSTALL PLUMBING SYSTEM, AND TO AVOID ANY CONFLICTS WITH OTHER TRADES AND THE BUILDING STRUCTURE.
- 3. IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW INDIVIDUAL BRANCH PIPING TO EACH PLUMBING FIXTURE; ONLY THE BRANCH PIPING TO GROUPS OF FIXTURES AS INDICATED. THE ENTIRE PLUMBING SYSTEM SHALL BE FULLY OPERATIONAL AND READY FOR BENEFICIAL USE BEFORE THE JOB IS CONSIDERED COMPLETE.
- REFER TO LATEST ARCHITECTURAL PLANS FOR ELEVATIONS, SECTIONS, DETAILS, MOUNTING HEIGHTS, AND LOCATION OF PLUMBING FIXTURES. ALL HANDICAPPED DESIGNATED FIXTURES SHALL BE INSTALLED IN ACCORDANCE WITH ANSI AND ADA STANDARDS.
- 5. DO NOT SCALE DRAWINGS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD AND SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY AND ALL DISCREPANCIES.
- 6. IT IS NOT INTENDED THAT THE DRAWINGS SHOW EVERY PIPE, FITTING, RISE/DROP OR DETAIL. SYSTEM AND COMPONENTS SHALL BE INSTALLED ACCORDING TO THE INTENT AND MEANING OF CONTRACT DOCUMENTS AND IN ACCORDANCE WITH GOOD PRACTICE.
- 7. CONTRACTOR IS RESPONSIBLE TO PROVIDE COMPLETE AND OPERATIONAL SYSTEMS WITH FACILITIES AND SERVICES TO MEET REQUIREMENTS INDICATED AND IN ACCORDANCE WITH APPLICABLE CODES AND
- 8. EQUIPMENT AND COMPONENTS HAVING EQUAL PERFORMANCE CHARACTERISTICS BY OTHER MANUFACTURERS MAY BE CONSIDERED, PROVIDED DEVIATIONS IN DIMENSIONS, OPERATION AND OTHER CHARACTERISTICS DO NOT CHANGE DESIGN CONCEPT OR INTENDED PERFORMANCE AS JUDGED BY THE ENGINEER. BURDEN OF PROOF OF EQUALITY OF PRODUCTS IS ON THE CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR THE SAFEKEEPING OF HIS OWN PROPERTY ON THE JOB SITE. OWNER ASSUMES NO RESPONSIBILITY FOR THE PROTECTION OF PROPERTIES AGAINST FIRE, THEFT AND ENVIRONMENTAL CONDITIONS.
- 10. CONTRACTOR IS RESPONSIBLE TO PROPERLY PROTECT OWNER'S PROPERTY AND EQUIPMENT FROM
- 11. CONTRACTOR IS TO CLEAN JOB SITE DAILY AND REMOVE FROM THE PREMISES ANY DIRT AND DEBRIS CAUSED BY THE WORK INCLUDED IN THIS CONTRACT.
- 12. ALL WORK TO BE PERFORMED IN A CLEAN AND WORKMANLIKE MANNER, CARE SHALL BE EXERCISED TO MINIMIZE ANY INCONVENIENCE OR DISTURBANCE TO OTHER AREAS OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE CONSTRUCTION AREAS BY MEANS OF TEMPORARY PARTITIONS AND/OR
- CONTRACTOR IS RESPONSIBLE TO PROPERLY SECURE AREAS OF CONSTRUCTION AT THE END OF EACH
- 14. EQUIPMENT AND PIPING TO BE INSTALLED IN ACCORDANCE WITH SEISMIC REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE.
- 15. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ALL OTHER TRADES.

INJURY, AND DAMAGE TO SAME SHALL BE REPLACED BY CONTRACTOR.

- 16. ALL EQUIPMENT SUPPORTS AND PIPE HANGERS TO BE CONNECTED FROM THE BUILDING STRUCTURE.
- 17. ALL NEW PENETRATIONS THRU RATED WALLS, FLOORS AND CEILINGS SHALL BE FIRESTOPPED AND SEALED TO MAINTAIN RATING. REFER TO SPECIFICATION SECTION 07801.
- 18. PROVIDE ACCESS PANELS/DOORS FOR ALL CONCEALED PLUMBING ITEMS REQUIRING ACCESS COORDINATE WITH DIVISION 8.
- 19. PROVIDE SHUTOFF VALVES AT ALL BRANCH PIPING TAKEOFFS

TARPS TO KEEP DUST AND DIRT WITHIN WORK AREA.

WORKING DAY.

- 20. ALL BRANCH WATER PIPES TO HAVE STOP VALVES AT EACH PLUMBING FIXTURE.
- 21. INSULATE EXPOSED WASTE, HOT AND COLD WATER PIPING UNDER HANDICAP LAVATORIES.
- 22. INSULATE COLD WATER, HOT WATER AND RECIRCULATION PIPING, CONDENSATE DRAIN, STORM PIPING AND ROOF DRAIN BODIES.
- 23. EVERY FIXTURE SHALL BE PROPERLY PIPED TO WATER, SANITARY, WASTE, AND VENT SYSTEMS. REFER TO THE PLUMBING SCHEDULE ON MEP DRAWINGS FOR INDIVIDUAL PIPE SIZES TO EACH FIXTURE.
- 24. WHERE AN INACCESSIBLE CEILING IS INSTALLED (GYP BOARD OR EQUIVALENT) THE CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ACCESS PANELS FOR ALL VALVES, CLEANOUTS, ETC., REQUIRING ACCESS, WITH THE ARCHITECT, PRIOR TO INSTALLATION OF SUCH DEVICES AND OTHER APPURTENANCES.
- 25. NO PIPING SHALL BE INSTALLED WITHIN STAIRS, STAIR WALLS, ELEVATOR MACHINE ROOMS, TRANSFORMERS VAULTS, ELECTRICAL ROOMS OR OVER ELECTRICAL PANELS/EQUIPMENT. ONLY DEDICATED PLUMBING PIPING WILL BE ALLOWED WITHIN EACH OF THE SPACES INDICATED ABOVE. COORDINATE THE LOCATION OF ALL PIPING WITH ALL OTHER TRADES, AND ADJUST AS NECESSARY.
- 26. ALL PIPING TO BE RUN CONCEALED IN CEILINGS OR WALLS. PIPING IS TO BE EXPOSED ONLY WHERE NOTED ON DRAWINGS. IF CONTRACTOR CANNOT RUN PIPING CONCEALED, NOTIFY ENGINEER IMMEDIATELY TO RESOLVE CONFLICT.
- 27. INSTALL WATER HAMMER ARRESTORS (WHA) AT ALL QUICK-CLOSING VALVES (FLUSH VALVES, SOLENOID VALVES, ETC:) THROUGHOUT THE PLUMBING SYSTEM. WATER HAMMER ARRESTORS SHALL BE SIZED BASED ON SUPPLY FIXTURE UNITS PER PLUMBING DRAINAGE INSTITUTE (PDI) STANDARDS AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- 28. PIPE ALL CONDENSATE DRAINS FROM MECHANICAL EQUIPMENT COOLING COILS, BY GRAVITY (INTERIOR AIR HANDLING UNITS, FAN COIL UNITS, ETC.) TO FLOOR DRAINS OR JANITOR'S SINKS THROUGH AN AIR GAP. EACH CONDENSATE DRAIN SHALL BE TRAPPED AT THE EQUIPMENT DRAIN OUTLET, REFER TO TRAP DETAILS ON DRAWINGS. COORDINATE EXACT LOCATION WITH THE HVAC CONTRACTOR AND ADJUST AS NECESSARY.
- 29. COORDINATE EXACT LOCATION OF ALL UNDERGROUND UTILITIES (WATER, GAS, SANITARY, ETC.) EXITING OR ENTERING THE BUILDING WITH THE SITE CONTRACTOR AND UTILITY DRAWINGS. COORDINATE ALL FOUNDATION WALL PENETRATIONS AND INVERT ELEVATIONS WITH BTHE GENERAL CONTRACTOR AND OR OWNER'S REPRESENTATIVE.
- 30. DOMESTIC WATER DROPS OR RISERS INSTALLED IN EXTERIOR WALLS, SHALL BE INSTALLED ON THE WARM SIDE OF THE BUILDING INSULATION, AND THE LOCATION SHALL BE MADE INFILTRATION FREE.
- 31. INSTALL TRAP PRIMERS FOR EACH INDIVIDUAL FLOOR DRAIN OR, AS AN OPTION, CONTRACTOR MAY UTILIZE UTILITY DISTRIBUTION UNIT FOR MULTIPLE DRAIN. CONNECT TRAP PRIMER TO NEAREST ACTIVE COLD WATER MAIN; PROVIDE ISOLATION VALVES AND EXTEND TO FLOOR DRAIN.
- 32. INSTALL FLOOR MOUNTED EQUIPMENT, SUCH AS WATER HEATERS, STORAGE TANKS, ETC. ON A 4" HIGH CONCRETE HOUSEKEEPING PAD. COORDINATE SIZE AND FINAL LOCATION OF ALL CONCRETE PADS WITH THE STRUCTURAL ENGINEER. PADS SHALL BE MINIMUM 6" LARGER THAN EQUIPMENT IN BOTH HORIZONTAL DIRECTIONS.
- 33. COORDINATE ALL PLUMBING EQUIPMENT REQUIRING POWER, FORT EXACT LOCATION AND POWER REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.
- 34. ALL INDIRECT WASTE DRAINS SHALL BE PIPED TO FLOOR DRAINS, FUNNELS OR FIXED AIR GAP FITTINGS, THROUGH AIR GAP OR TO A SINK DRAIN TAILPIECE.
- 35. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELBOWS, TEES, DROPS, AND MISCELLANEOUS PIPING DUE TO ELEVATION CHANGES, OBSTRUCTIONS, COORDINATION WITH OTHER TRADES, ETC. TO INSTALL A COMPLETE, FUNCTIONAL, PLUMBING SYSTEM.

PLUMBING SYSTEMS SEISMIC NOTES

PROVIDE SEISMIC RESTRAINTS PER THE INTERNATIONAL BUILDING CODE, SECTION 1610. SEISMIC RESTRAINTS ARE REQUIRED FOR ALL PIPING EXCEPT FOR THE FOLLOWING INSTANCES:

- A. PIPING SUSPENDED BY INDIVIDUAL HANGERS 12" OR LESS IN LENGTH FROM TOP OF THE PIPE TO THE SUPPORTING STRUCTURE.
- PIPING IN BOILER AND MECHANICAL ROOMS WHICH HAS LESS THAN 1-1/4 INCHES IN DIAMETER.
- C. PIPING IN OTHER AREAS WHICH HAS LESS THAN 2-1/2 INCHES IN DIAMETER.

SEISMIC RESTRAINTS ARE REQUIRED FOR ALL GAS (INCLUDING ROOF) AND HAZARDOUS PIPING - NO

SAN	SAN OR W	SOIL OR WASTE ABOVE FLOOR OR GRADE
	SAN OR W	
— — — SAN— — —	SAN OR W	SOIL OR WASTE BELOW FLOOR OR GRADE
	ST	STORM DRAIN ABOVE FLOOR OR GRADE
ST	ST	STORM DRAIN BELOW FLOOR OR GRADE
	V	VENT PIPING
	CW	COLD WATER PIPING
	HW	HOT WATER PIPING
	HWR	HOT WATER RECIRCULATION PIPING
	HW	HOT WATER PIPING 110° F TEMPERATURE
	HW	HOT WATER PIPING 140°F TEMPERATURE
	AW	ACID WASTE PIPING BELOW GRADE
	AV	ACID VENT PIPING
AV		
KW	KW	KITCHEN WASTE PIPING BELOW GRADE
TP	TP	TRAP PRIMER PIPING
	G	NATURAL GAS PIPING
SAN		EXISTING SANITARY PIPING
ST		EXISTING STORM PIPING
V		EXISTING VENT PIPING
CW		EXISTING COLD WATER PIPING
		EXISTING HOT WATER PIPING
HWR		EXISTING HOT WATER RECIRCULATING PIPING
	cowco	
		CLEANOUT/CLEANOUT WALL PLATE
	CODP	CLEANOUT DECKPLATE
		TRAP
<u>T</u>	BV	BALL VALVE
	cv	CHECK VALVE
$\longrightarrow \!$	GV	GATE VALVE
		BUTTERFLY VALVE
Ø	RPBP	REDUCED PRESS. BACKFLOW PREVENTER
		GAS COCK
<u> </u>		GAS PRESSURE REGULATOR
		GAS SOLENOID VALVE
——————————————————————————————————————		
<u></u>	HB	INTERIOR HOSE BIBB W/ VACUUM BREAKER
	WH	EXTERIOR WALL HYDRANT W/ VACUUM BREAKER (NON FREEZE)
——————————————————————————————————————		UNION
		CAP
	TP	TRAP PRIMER VALVE
		SEISMIC/HOT WATER
		EXPANSION LOOP
Ţ.	EGO	EMERGENCY GAS SHUTOFF SWITCH
©	POC	POINT OF CONNECTION
<u></u>	AD	AREA DRAIN
	FD	FLOOR DRAIN
0	RD	ROOF DRAIN
	PD	PLANTER DRAIN
<u></u>	WC-HC	WATER CLOSET (HANDICAPPED ACCESSIBLE)
	UR, UR-HC	URINAL, URINAL (HANDICAPPED ACCESSIBLE)
	LAV1-HC	LAVATORY SYSTEM
	LAV2-HC	LAVATORY SYSTEM
	LAV3-HC	LAVATORY SYSTEM
	SK #	SINK
	MSK	MOP SINK
	DFI-HC	DRINKING FOUNTAIN, SINGLE UNIT (HANDICAPPED ACCESSIB
<u>©</u>	DF2-HC	DRINKING FOUNTAIN, DUAL UNIT (HANDICAPPED ACCESSIBLE
<u> </u>	EWC1-HC	ELECTRIC WATER COOLER DUAL UNIT (HANDICAPPED ACCES
	EWC2-HC	ELECTRIC WATER COOLER DUAL UNIT (HANDICAPPED ACCES
-CJ	EWC	EXISTING WATER CLOSET
الآيا	EUR	EXISTING URINAL
	ELAV	EXISTING LAVATORY
	ESK	EXISTING SINK
· ·	EEWC	EXISTING ELECTRIC WATER COOLER

PLUMBING LEGEND

Hinsdale School Alterations 15 Hinsdale Ave. Winsted, CT 06098



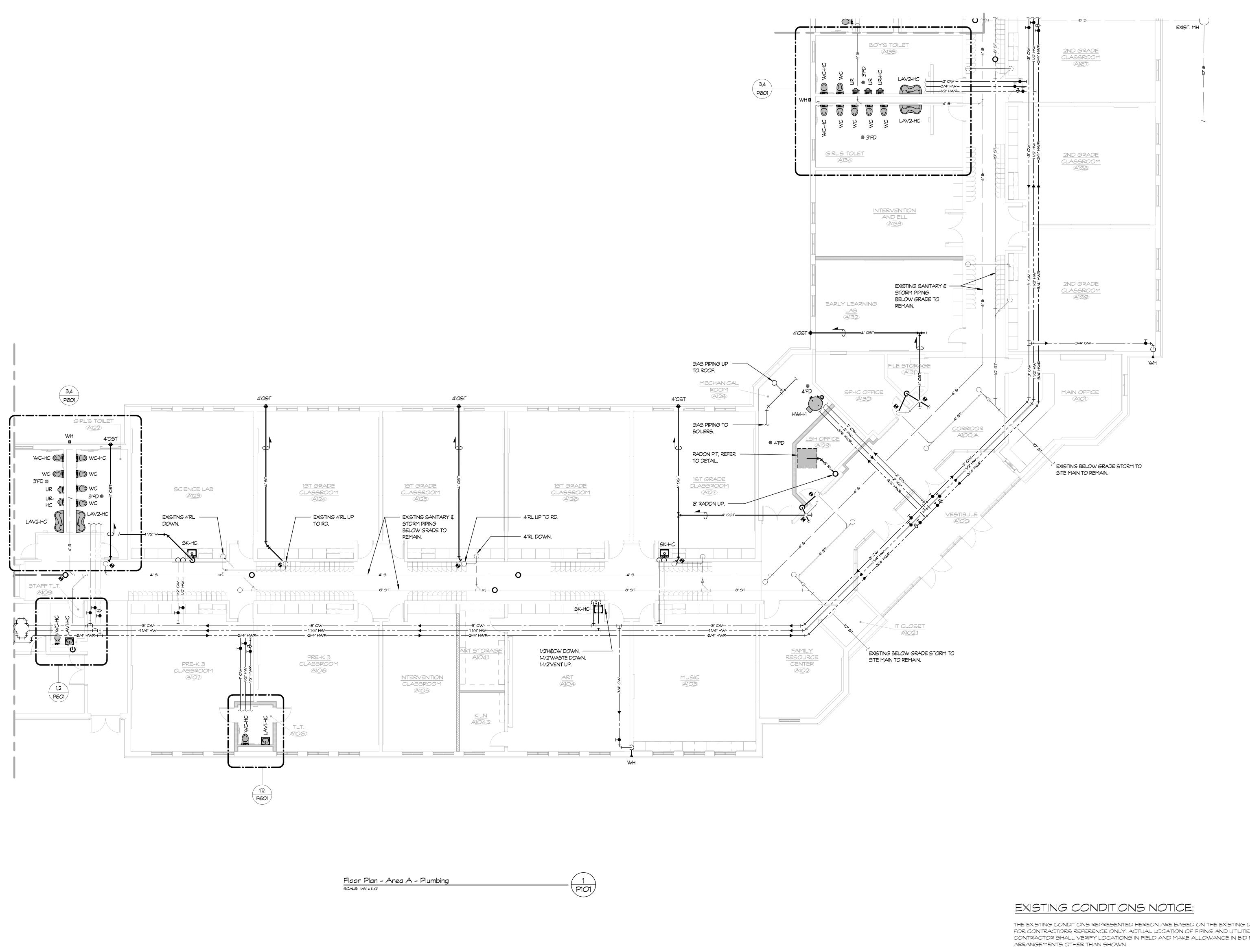
SILVER / PETRUCELLI + ASSOCIATES Revision: Architects / Engineers / Interior Designers

> 3190 Whitney Avenue, Hamden, CT 06518-2 Tel. 203 230 9007 Fax. 203 230 8247 silverpetrucelli.com

Revision:	Description:	Date:	Revised By

PLUMBING NOTES, ABBREVIATIONS & LEGEND State Project #: 162-0043RNV

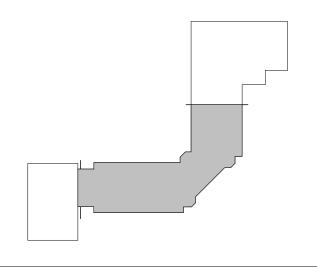
Date:	Drawing Number:
June 30, 2020	
Scale:	
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Drawn By:	- P()()
JES	1 00
Project Number: 18.223	



THE EXISTING CONDITIONS REPRESENTED HEREON ARE BASED ON THE EXISTING DRAWINGS. THEY ARE INCLUDED FOR CONTRACTORS REFERENCE ONLY. ACTUAL LOCATION OF PIPING AND UTILITIES MAY VARY IN FIELD. PIPING CONTRACTOR SHALL VERIFY LOCATIONS IN FIELD AND MAKE ALLOWANCE IN BID FOR LOCATIONS AND

SILVER PETRUCELLI CANNOT GUARANTEE THE CORRECTNESS OF THE EXISTING CONDITIONS SHOWN AND ASSUMES NO RESPONSIBILITY THEREFOR. INCLUSION OF THESE EXISTING CONDITIONS HEREON SHALL IN NO WAY ALLEVIATE THE CONTRACTOR(S) OF THEIR RESPONSIBILITY TO VISIT THE SITE TO VERIFY ALL EXISTING CONDITIONS.THE EXISTING CONDITIONS REPRESENTED HEREON ARE BASED ON THE EXISTING DRAWINGS. THEY ARE INCLUDED FOR CONTRACTORS REFERENCE ONLY. ACTUAL LOCATION OF PIPING AND UTILITIES MAY VARY IN FIELD. PIPING CONTRACTOR SHALL VERIFY LOCATIONS IN FIELD AND MAKE ALLOWANCE IN BID FOR LOCATIONS AND ARRANGEMENTS OTHER THAN SHOWN.

State Project #: 162-0043RNV



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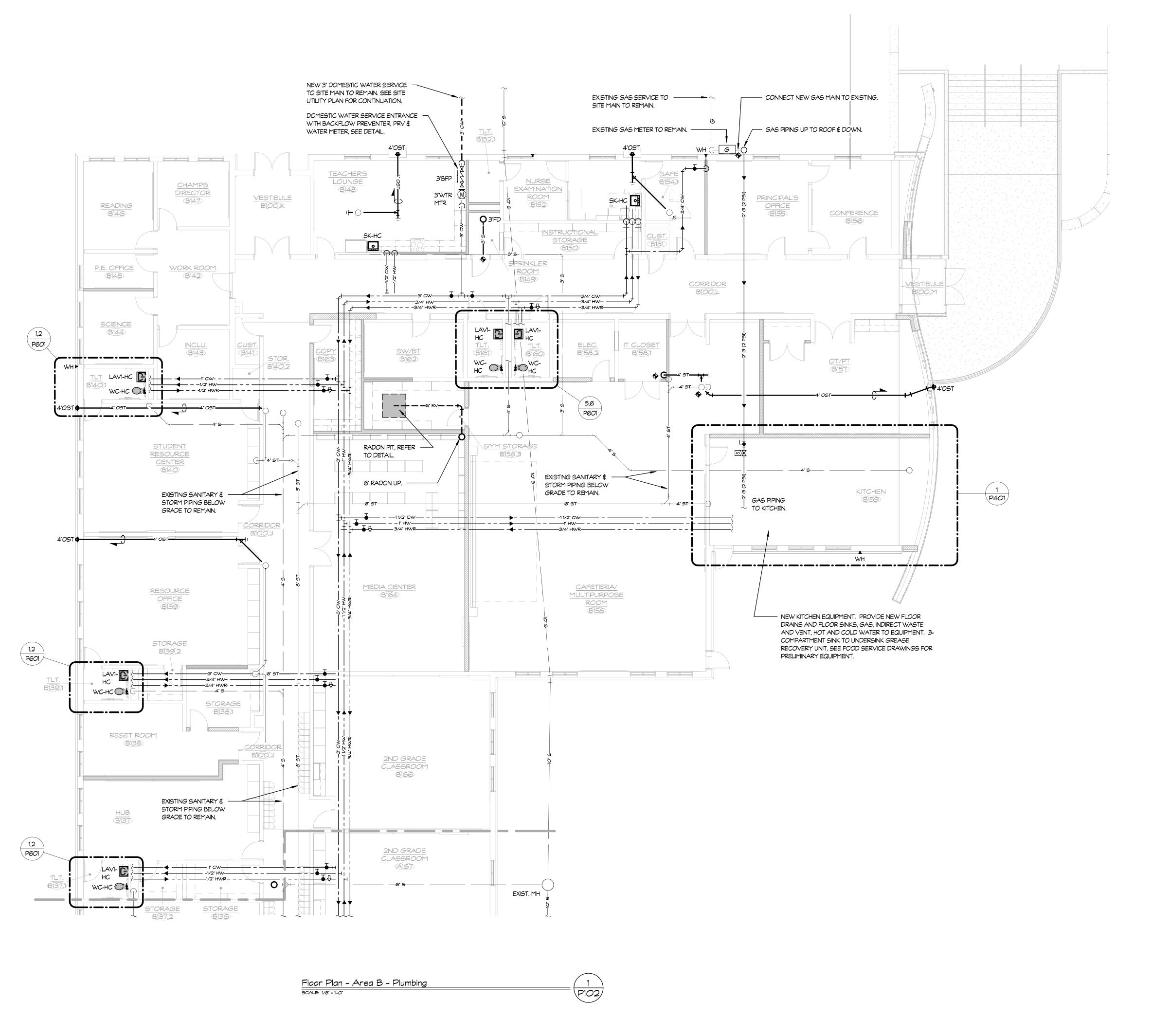
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Revised By:

FLOOR PLAN - AREA A -PIPING

Drawing Number: June 30, 2020 As indicated Drawn By: JES Project Number: 18.223

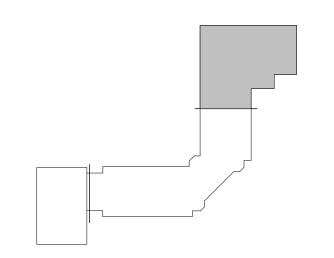


EXISTING CONDITIONS NOTICE:

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State Project #: 162-0043RNV



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FLOOR PLAN - AREA B - PIPING

Date:

June 30, 2020

Scale:

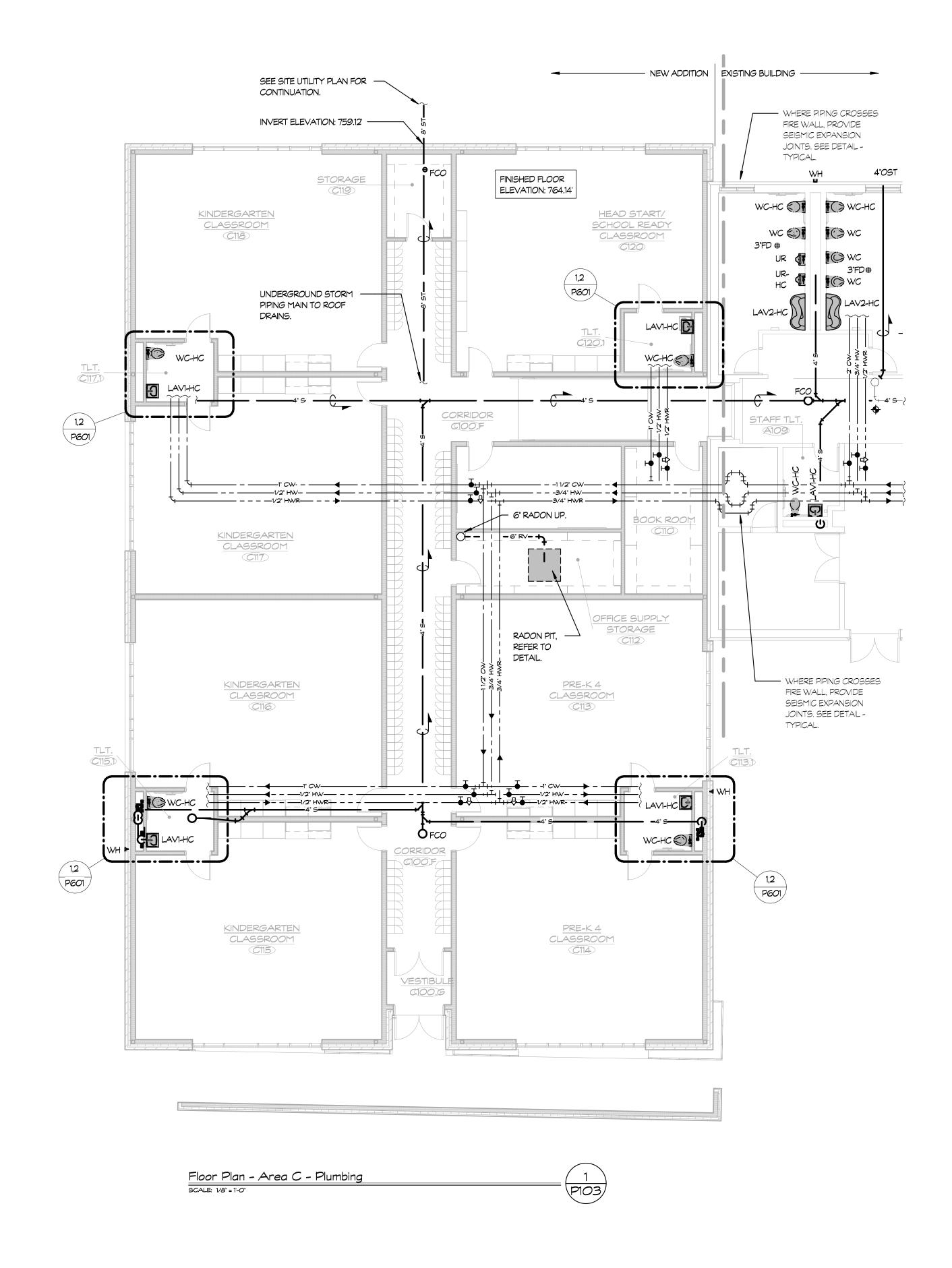
As indicated

Drawn By:

JES

Project Number:

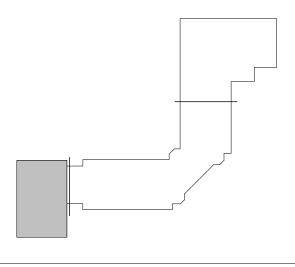
18.223



EXISTING CONDITIONS NOTICE:

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SII VFR	/ PETRUCELLI + ASSOCIATES	Revision:	Description:	Date:	Revised By
DIL V LIX	/ ILIKACLLLI MODOCITILO				
	Architects / Engineers / Interior Designers				
	3190 Whitney Avenue, Hamden, CT 06518-2340				
	•				
	Tel. 203 230 9007 Fax. 203 230 8247				

FLOOR PLAN - AREA C - PIPING

State Project #: 162-0043RNV

Date:

June 30, 2020

Scale:

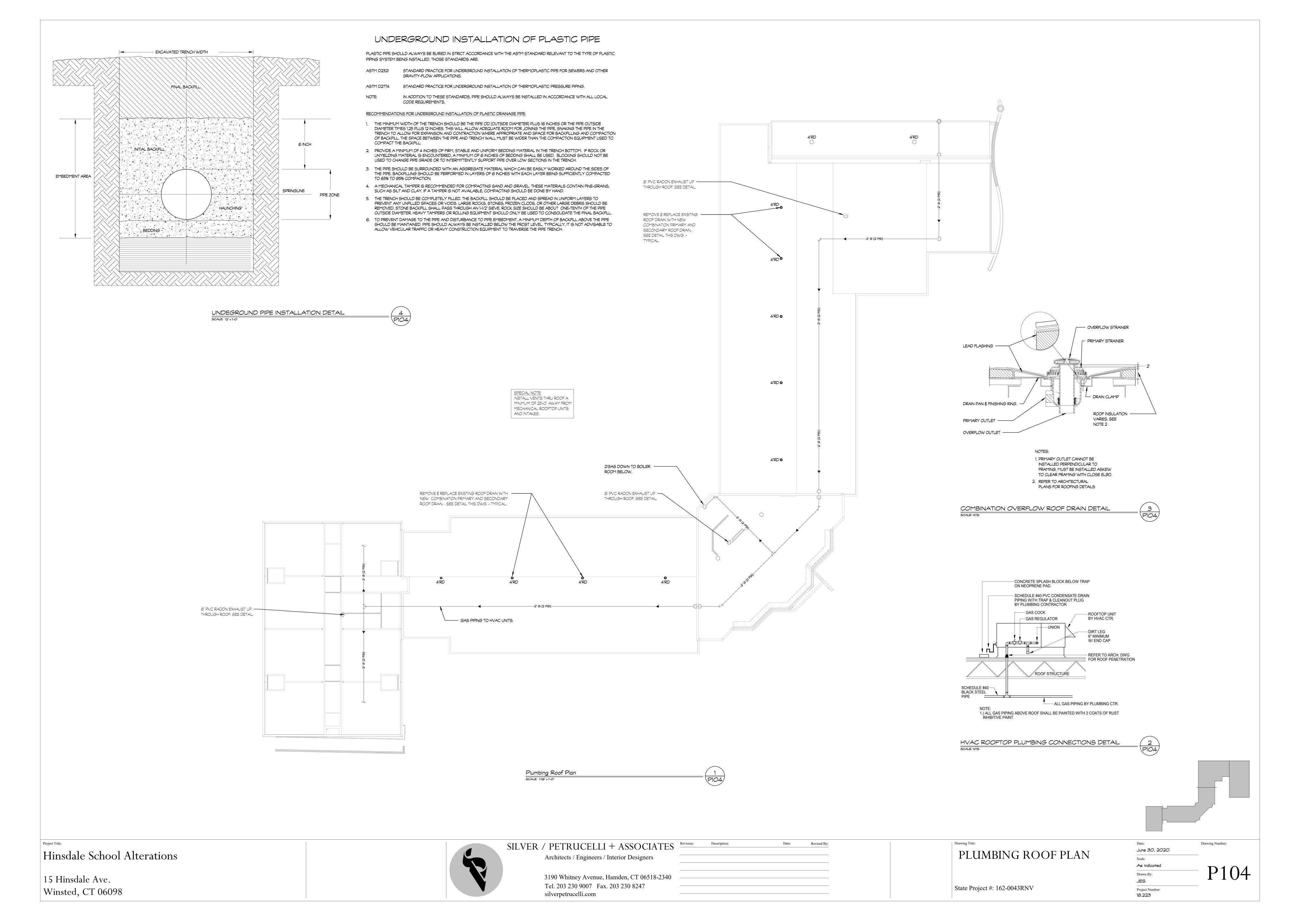
As indicated

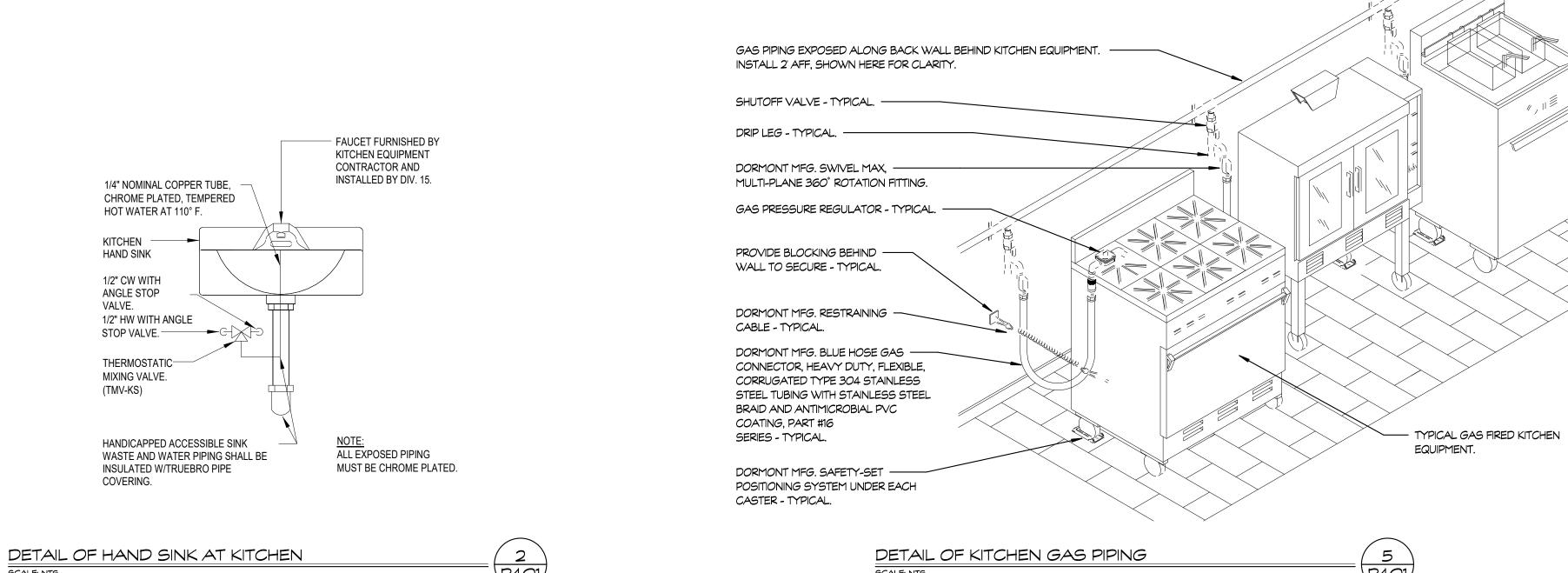
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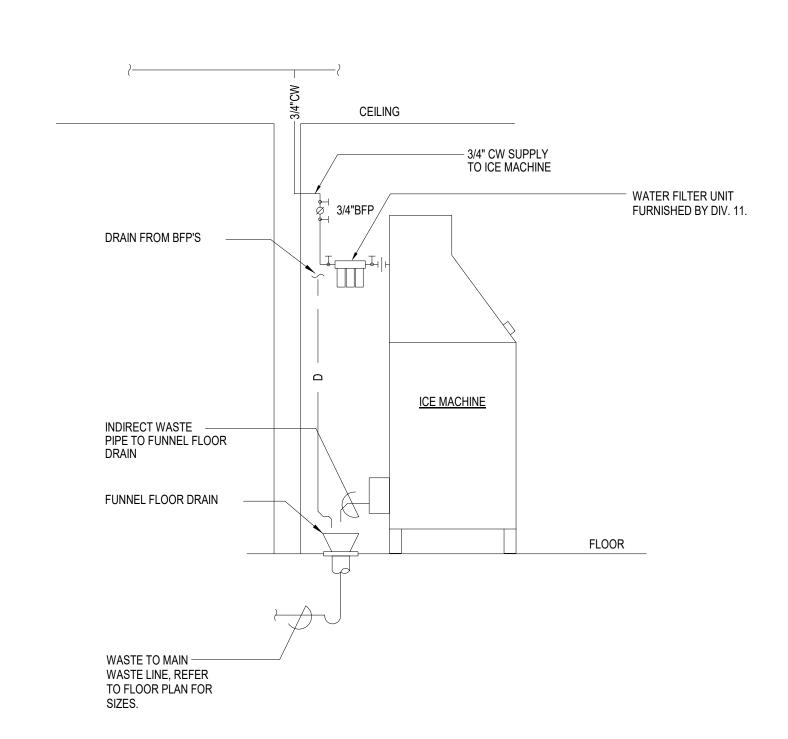
Author

Project Number:

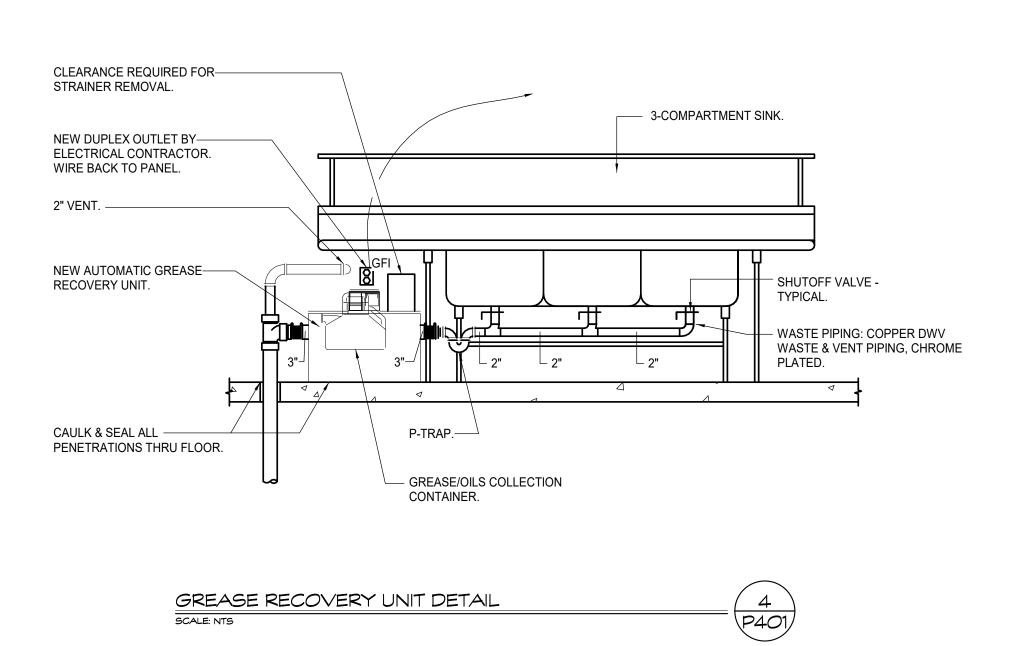
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DETAIL OF ICE MACHINE AT KITCHEN

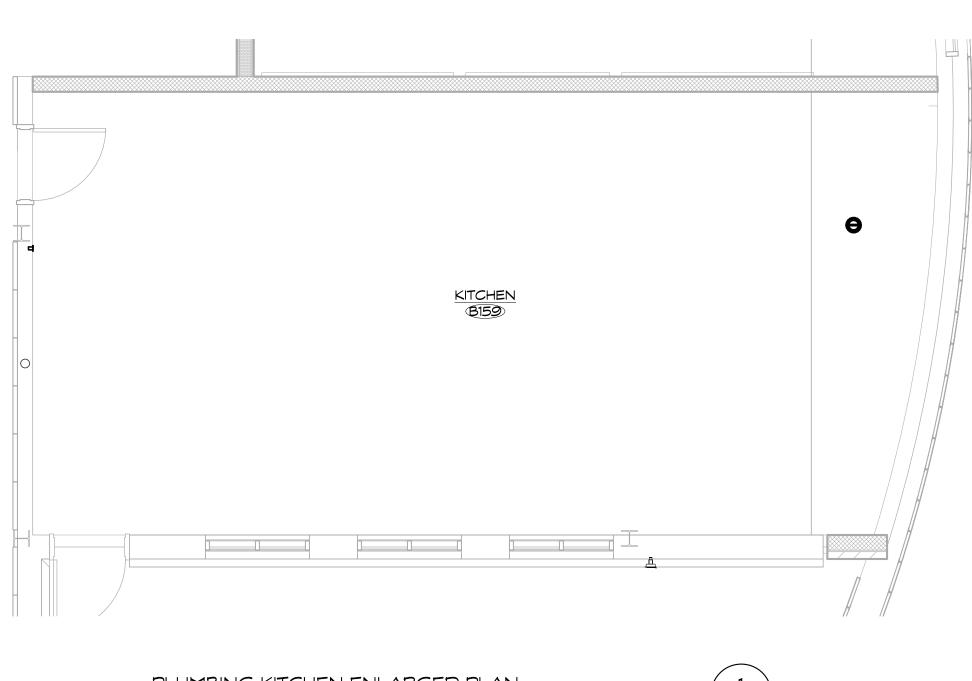


	SY	MBOL LEGEND	
FS	\triangle	- FLOOR SINK	
ID		- INDIRECT DRAIN	
FD	0	- FLOOR DRAIN	
FFD	0	- FUNNEL FLOOR DRAIN	

PLUMBING KITCHEN GENERAL NOTES

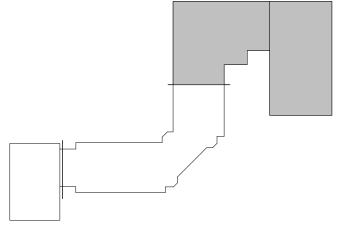
- EXACT LOCATION OF ALL HOT, COLD GAS AND WASTE PIPING SHALL BE DETERMINED FROM FINAL EQUIPMENT ROUGHING DRAWINGS AND SPECIFICATIONS.
- 2. KITCHEN EQUIPMENT AS LISTED IN SCHEDULE SHALL BE FURNISHED BY KITCHEN EQUIPMENT CONTRACTOR. A. FAUCETS, SINK STRAINERS AND TAILPIECES SHALL BE PROVIDED
 - BY KITCHEN EQUIPMENT CONTRACTOR AND INSTALLED BY PLUMBING CONTRACTOR. B. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL TRAPS AND
 - STOP VALVES AS REQUIRED. PLUMBER SHALL INSTALL FAUCETS AND TAILPIECES AND CONNECT TO PLUMBING SERVICES AS REQUIRED. C. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL STOP VALVES AT EVERY FIXTURE AND PIECE OF EQUIPMENT.
- 3. PLUMBING CONTRACTOR SHALL EXTEND ALL INDIRECT WASTE LINES FROM EVAPORATOR COILS, COMPRESSORS, HOT FOOD WELLS, STEAM TABLES, COLD PANS, ETC., TO THE NEAREST FLOOR DRAINS OR FLOOR SINKS. FOR EXACT LOCATION OF INDIRECT WASTE LINES, REFER TO KITCHEN EQUIPMENT ROUGH-IN PLANS.
- 4. KITCHEN EQUIPMENT CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY REFRIGERATION LINES FROM ALL COMPRESSORS TO THE EVAPORATOR COILS IN THE WALK-IN BOXES.
- 5. KITCHEN EQUIPMENT CONTRACTOR SHALL FURNISH AND INSTALL RUBBER GROMMETS FOR ALL COUNTER TOP CUTS MADE FOR PIPING CONNECTIONS AS REQUIRED.
- 6. WHEN RUNNING WATER PIPING BELOW THE FLOOR SLAB, PIPING SHALL BE CPVC.
- 7. ALL EXPOSED PIPING SHALL BE CHROME PLATED.
- 8. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ACCESSIBLE STOP VALVES AT EVERY FIXTURE AND EVERY PIECE OF KITCHEN
- 9. WHERE PIPING IS RUNNING BELOW SLAB, TURN PIPING UP THRU SLAB WITH STOP VALVES AT FLOOR LEVEL.
- 10. ALL INDIRECT DRAINS SHALL BE CUT AT 45° ANGLES.
- 11. ALL FLOOR DRAINS AND FLOOR SINKS SHALL BE STAINLESS STEEL, 4" PIPE SIZE/DIAMETER IN KITCHEN WITH TRAP PRIMERS.

ITEM NO.	DESCRIPTION	PLUM	BING					
		HW	CW	W	IW	FD/FS	G	МВТ
AK 01	SALAD/DELI COUNTER				Х	FD		
AK 07	BACKCOUNTER W/SINK	1/2"	1/2"		Х	FS		
AK 15	HANDWASH SINK	1/2"	1/2"	1-1/2"				
(BK)	HANDWASH SINK	1/2"	1/2"	1-1/2"				
⟨BK⟩ 7	PREP TABLE W/SINKS	1/2"	1/2"		х	FS		
BK 13	TILTING SKILLET	1/2"	1/2"				3/4"	125
(BK)	FLOOR TROUGH			4"				
(BK)	RANGE	1/2"					1"	160
(BK)	CHAR-BROILER						3/4"	60
BK 18	DBL. CONVECTION OVEN						1"	120
BK 19	CHEF'S TABLE W/SINK	1/2"	1/2"		Х	FS		
BK 23	POTWASH SINK	(2) 1/2"	(2) 1/2"		(3) X	FS		
(BK) 25	ICE MAKER W/BIN		1/2"		(2) X	FD		
BK 26	WASHER	1/2"	1/2"		Х	FD		
⟨BK⟩ 27⟩	DRYER				Х			





Revised By:



Project Title:
Hinsdale School Alterations
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15 Hinsdale Ave. Winsted, CT 06098



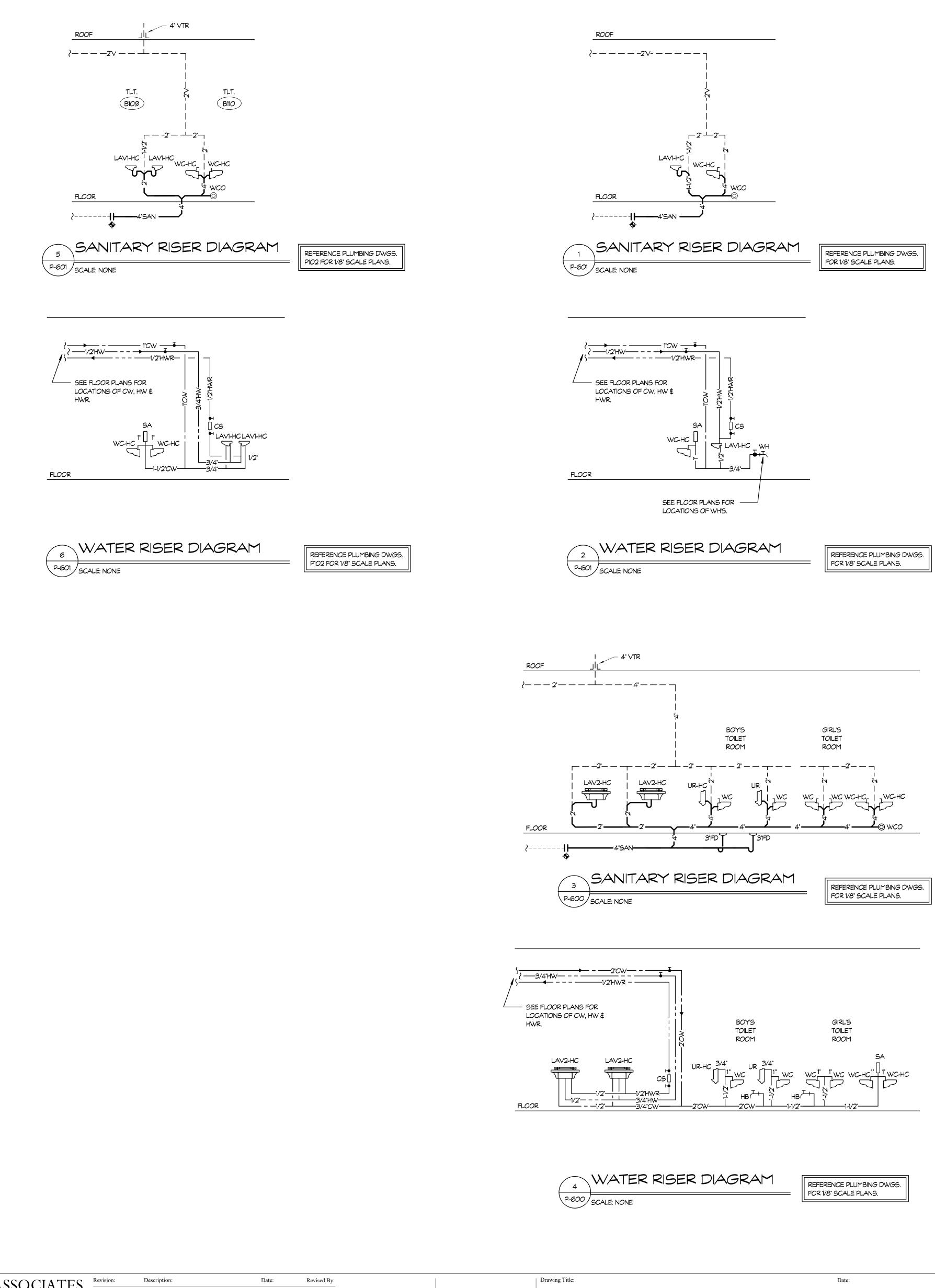
SILVER / PETRUCELLI + ASSOCIATES Revision: Architects / Engineers / Interior Designers 3190 Whitney Avenue, Hamden, CT 06518-2340

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PLUMBING ENLARGED KITCHEN PLAN State Project #: 162-0043RNV

Drawing Number: June 30, 2020 As indicated P401 Drawn By: JES Project Number: 18.223



Project Title:
Hinsdale School Alterations

15 Hinsdale Ave.
Winsted, CT 06098



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PLUMBING RISER DIAGRAMS

State Project #: 162-0043RNV

Date: Drawing Number:

June 30, 2020

Scale:

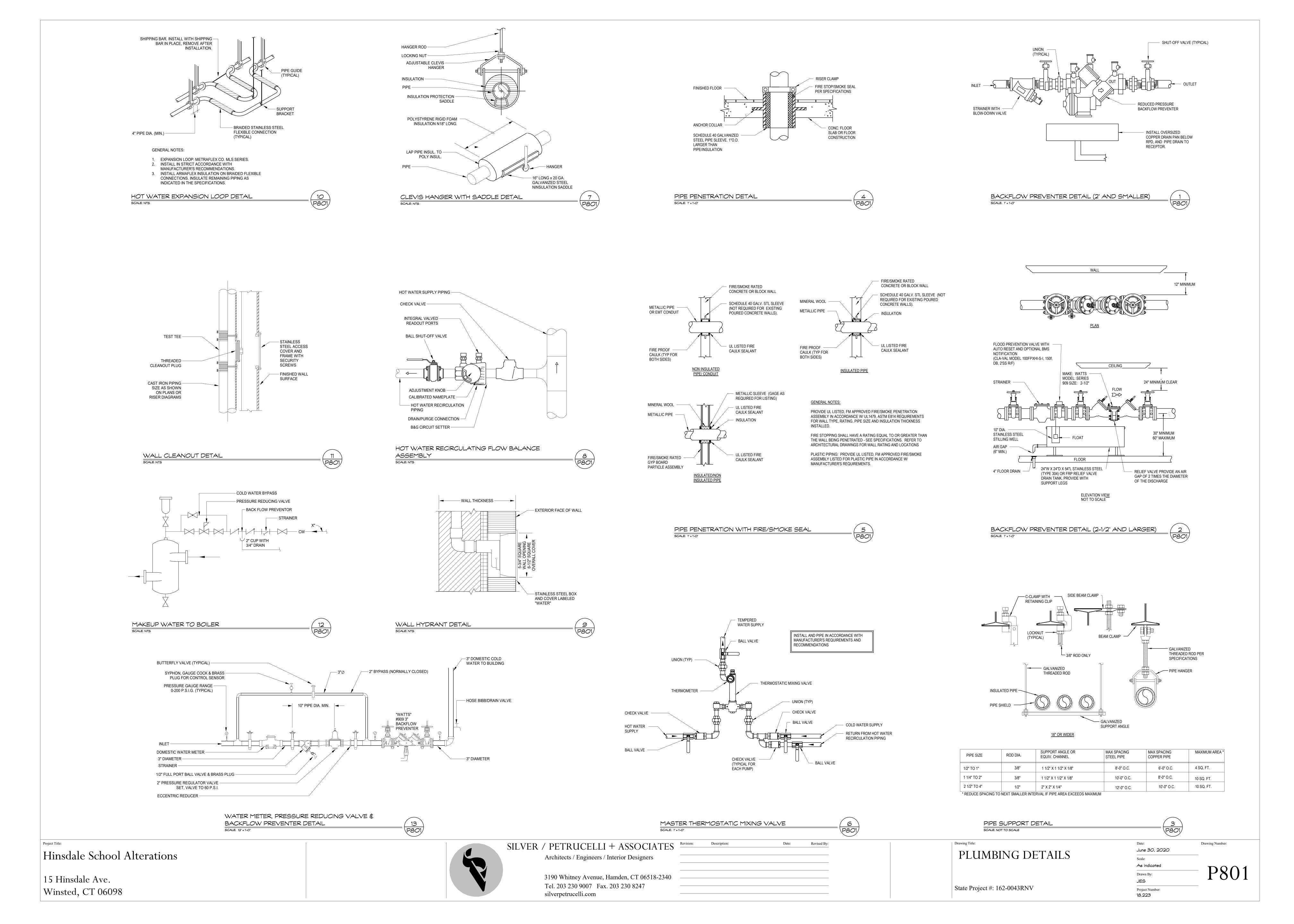
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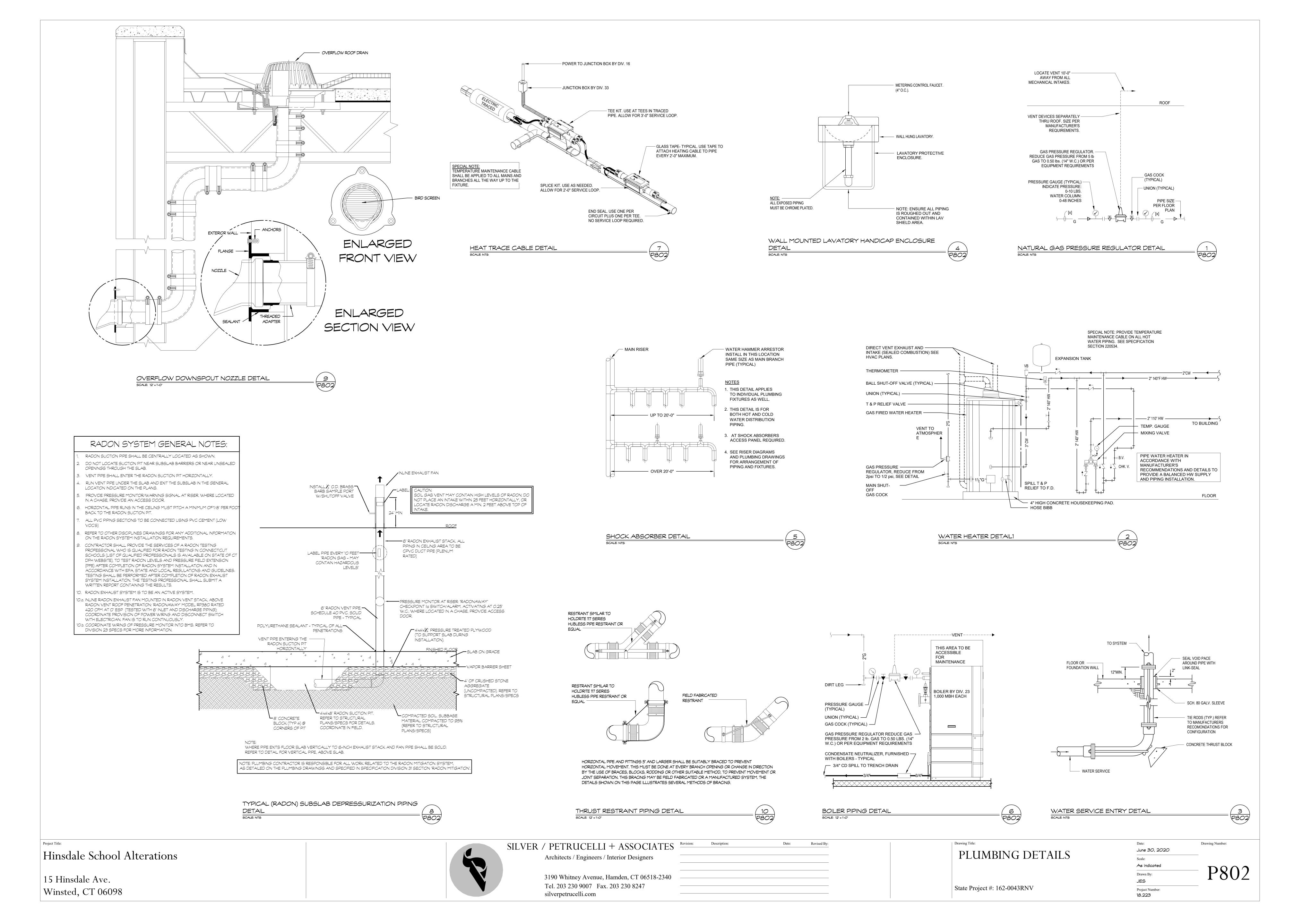
Drawn By:

JES

Project Number:

18.223





	FIXTURE CON	NECTI	ON SCH	IEDULE		
MARK	DESCRIPTION		MINIMUI	M PIPE SIZES	S (INCHES)	
IVIARK	DESCRIPTION	G	CW	HW	W	V
WC-HC, WC	WATER CLOSET	-	1	-	4	2
LAV	LAVATORY	-	1/2	1/2	1-1/2	1-1/2
UR	URINAL (WATERLESS)	-	-	-	2	1-1/2
SK-HC	SINK	-	1/2	1/2	1-1/2	1-1/2
MS	MOP SINK	-	3/4	3/4	3	2
SH-HC, SH	SHOWER	-	1/2	1/2	2	1-1/2
WH	WALL HYDRANT	-	3/4	-	-	-
НВ	HOSE BIBB	-	3/4	-	-	-
EWC	ELECTRIC WATER COOLER	-	1/2	-	1-1/2	1-1/2
WSH	CLOTHES WASHER	-	1/2	1/2	2	1-1/2
DW	DISHWASHER (BY DIV. 11452)	-	1/2	-	1-1/2	1-1/2

SYMBOL	MARK	MFR	MODEL	DESCRIPTION
	AAV	STUDOR	20301	AIR ADMITTANCE VALVE - MINI-VENT, SIZE PER DRAWINGS.
○→	AD BFP	WADE WATTS	3100 909	AREA DRAIN: CAST IRON BODY WITH DUCTILE IRON HEEL PROOF GRATE WITH VANDAL-PROOF SCREWS. UL/FM APPROVED AUTOMATICALLY OPERATING ASSEMBLY OF PRESSURE DIFFERENTIAL RELIEF VALVE, LOCATED BETWEEN TWO POSITIVE SEATING CHECK VALVES, EQUIPPED WITH INLET STRAINER, BRONZE BODY CONSTRUCTION;
	CLAV-HC FAUCET	BRADLEY TOTO	LD-3010 SERIES TEL5LS10-CP 0.5 GPM	NPT BODY CONNECTIONS AND OS&Y GATE VALVE SHUT-OFFS. LAVATORY (COUNTERTOP) SOLID SURFACE, SINKS INTEGRAL WITH COUNTERTOP, SELF-RIMMING 4" FAUCET CENTERS K-7601 LOOSE KEY ANGLE SUPPLY STOPS, K-9010 ONE PIECE CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT & OFFSET DRAIN, K-9015 CHROME PLATED BRASS PIPE WASTE NIPPLE WITH ESCUTCHEON, FOR SIZES AND DIMENSIONS, INSULATE SUPPLIES AND WASTE. REFER TO ARCHITECTURAL DRAWINGS A701. COLOR BY ARCHITECT. FAUCET:
	0000	TRUEBRO	HANDI-LAV-GAURD 102E- Z 6000-75	HYDROPOWER, SELF GENERATING, WITH TOTO TN78-10V710 CONTROLLER/MIXER, TOTO TN71V100S, 4" COVER PLATE, CP- POLISHED CHROME.
• •	CODP	WADE	6000Z-75	INTERIOR SPACES - DUCO CAST IRON BODY w/CAST BRONZE TAMPER THREADED PLUG EXTERIOR SPACES & PARKING AREAS - EXTRA HEAVY DUTY, CAST IRON BODY w/CAST IRON THREADED PLUG
9	DF-DU	HAWS	1025	SINGLE UNIT, FRONT PUSH BAR CONTROLS. 11 GAUGE VANDAL RESISTANT, CONCEALED ARM FLOOR CARRIER. CAST BRASS P-TRAP WITH CLEANOUT PLUG, LOOSE KEY SUPPLY STOP. MOUNT AT ACCESSIBLE HEIGHT PER
		LIANAC		ARCHITECTURAL PLANS. SEE DWG. A-002.
	DF1-HC &		1001MS	SINGLE UNIT, FRONT PUSH BAR CONTROLS. 18 GAUGE VANDAL RESISTANT, CONCEALED ARM FLOOR CARRIER. CAST BRASS P-TRAP WITH CLEANOUT PLUG, LOOSE KEY SUPPLY STOP. MOUNT AT ACCESSIBLE HEIGHT PER ARCHITECTURAL PLANS. SEE DWG. A-002.
<u> </u>	DF2-HC 🕭	ZURN	Z199-DC-VP	DUAL UNIT, FRONT PUSH BAR CONTROLS. 18 GAUGE VANDAL RESISTANT, CONCEALED ARM FLOOR CARRIER. CAST BRASS P-TRAP WITH CLEANOUT PLUG, LOOSE KEY SUPPLY STOP. MOUNT AT ACCESSIBLE HEIGHT PER ARCHITECTURAL PLANS. SEE DWG. A-002. DOWNSPOUT COVER, ROUND FABRICATED TYPE 304 STAINLESS STEEL FRAME WITH FABRICATED SECURED PERFORATED STAINLESS STEEL HINGED STRAINER WITH VANDAL PROOF SECURED TOP.
	DHWH1 DHWH2	PVI WESSELS LAWLER PVI VENT KIT	60L 130A- GCML TTA-125, 805 PI 5045B	DOMESTIC WATER HEATER, GAS FIRED STORAGE TANK. 34" DIAMETER, 81" O.A. LENGTH, PROVIDE FLEXIBLE INSULATING JACKET SYSTEM. 130 GALLON STORAGE TANK, 600 MBH INPUT, 691 GPH RECOVERY @ 100' RISE. FURNISH WITH EXPANSION TANK. WITH CONDENSATE NEUTRALIZER, HEAT TRANSFER PRODUCTS MFG. MODEL N1100 - TYPICAL OF 2. INTAKE AND VENTING: PVC, REFER TO HVAC DRAWINGS AND SPECIFICATIONS.
	DHWH3	PVI WESSELS LAWLER PVI VENT KIT	20L 100A- GCL TTA-125, 805 PI 5045B	DOMESTIC WATER HEATER, GAS FIRED STORAGE TANK. 28" DIAMETER, 72" O.A. LENGTH, PROVIDE FLEXIBLE INSULATING JACKET SYSTEM. 100 GALLON STORAGE TANK, 199 MBH INPUT, 691 GPH RECOVERY @ 100' RISE. FURNISH WITH EXPANSION TANK. WITH CONDENSATE NEUTRALIZER, HEAT TRANSFER PRODUCTS MFG. MODEL N1100. INTAKE AND VENTING: PVC, REFER TO HVAC DRAWINGS AND SPECIFICATIONS.
	DHWH4	EEMAX	MT004120T	INSTANTANEOUS WATER HEATER, 0.5 GPM FLOW RATE, TEMPERATURE RISE 48° F AT 0.5 GPM FLOW RATE, FLOW SWITCH ACTIVATED 120 VAC, 1Ø, 3.5 KW, 29 AMPS. WITH BUILD IN THERMOSTATIC MIXING VALVE.
0	FFD (KITCHEN)	WADE	9698-316 9704	STAINLESS STEEL, 12" SQUARE FLOOR DRAIN WITH 8" DEEP ROUNDED SUMP, STAINLESS STEEL SUSPENDED SEDIMENT BUCKET AND 8-INCH ELONGATED FUNNEL.
0	FD	WADE	1100-STD6-27	TOILET/SHOWERS: CAST IRON BODY DRAIN w/ROUND NICKEL BRONZE ADJUSTABLE STRAINER HEAD, SEDIMENT BUCKET AND VANDAL-PROOF SCREWS
0	FD	WADE	1314-27	MECHANICAL ROOMS: CAST IRON BODY DRAIN w/ROUND CAST IRON ADJUSTABLE STRAINER HEAD, SEDIMENT BUCKET AND VANDAL-PROOF SCREWS. PROVIDE WITH BACKWATER VALVE & PROSET TG-23 TRAP PRIMER INSERT.
_ O	FD	WADE	9100	STAINLESS STEEL, 12" SQUARE FLOOR DRAIN WITH 8" DEEP ROUNDED SUMP AND STAINLESS STEEL SUSPENDED SEDIMENT BUCKET.
	(KITCHEN)	WADE	9100	STAINLESS STEEL, 12" SQUARE FLOOR DRAIN WITH 10" DEEP ROUNDED SUMP, STAINLESS STEEL SUSPENDED SEDIMENT BUCKET AND HINGED HALF GRATE.
	(KITCHEN)			
	GD (GARAGE) GTRD	WADE	1214-27 3240-B	12- 5/8" DIAMETER CAST IRON FLOOR DRAIN WITH INTEGRAL CLAMPING COLLAR, LOOSE SET HEAVY DUTY DUCTILE IRON GRATE AND LIFT OUT ALUMINUM SEDIMENT BUCKET. GUTTER DRAIN: 6" DIAMETER CAST IRON GUTTER DRAIN WITH INTEGRAL CLAMPING COLLAR AND BRONZE DOME. PROVIDE AT ALL GUTTER WHERE PIPING IS CONNECTED TO GUTTERS.
	GRU-1	THERMACO	W-500-IS 50GPM 100+LBS.	GUTTER DRAIN: 6" DIAMETER CAST IRON GUTTER DRAIN WITH INTEGRAL CLAMPING COLLAR AND BRONZE DOME. PROVIDE AT ALL GUTTER WHERE PIPING IS CONNECTED TO GUTTERS. POINT SOURCE AUTOMATIC GREASE REMOVAL SYSTEM. FULLY AUTOMATIC SELF CLEANING CYCLE. REMOVES COLLECTED GREASE & OILS FROM TANK AUTOMATICALLY. WITH 24-HOUR TIME & GREASE COLLECTOR. STAINLESS STEEL
			VFCA-50 20 LB./HR.	EXTERIOR. 304 STAINLESS STEEL, BRIGHT FINISH, INTERIOR: ROTATIONALLY MOLDED POLYETHYLENE. ELECTRICAL 115VAC, 60 HZ, 520 WATTS (4.5 AMPS).
<u></u> → → →	HB HT	WOODFORD RAYCHEM	26 METAL HANDLE XL-TRACE 5XL-1	CAST BRASS, CHROME FINISH, LOOSE KEY, ANTI-SIPHON ASSE RATED VACUUM BREAKER, TRIMLINE WALL HYDRANT w/3/4" INLET. 5 WATTS PER FOOT, 277V. SYSTEM CONTROLLED BY AN AMBIENT SENSING THERMOSTAT #AMC-55 SET AT 40 F.
i,	LAV1-HC FAUCET	тото	LT307A TEL5LS10 FAUCET 2018-TO-L LAV SHIELD	VITREOUS CHINA, WALL HUNG, w/4"CENTERS, P-TRAP, K-7601 LOOSE KEY STOP ANGLE SUPPLIES, K-9010 CAST BRASS P-TRAP W/ CLEANOUT, K-9015 WASTE NIPPLE WITH ESCUTCHEON & WADE 400 CHAIR CARRIER. INSULATE PIPING w/TRUEBRO LAV-SHIELD 2018. MOUNT AT ACCESSIBLE HEIGHT PER ARCHITECTURAL DWG. A700.
	LAV2-HC	BRADLEY	MG-3 NDT-TMA-HEAT277NDITE POWERED INFRARED	PREASSEMBLED, MODULAR, LAVATORY SYSTEM WITH SOLID SURFACE TOP AND LAVATORY BOWLS, PUSH BUTTON TOUCHTIME ELECTRONIC METERING CONTROL. FLOW RATE: 0.5 GPM. COLOR BY ARCHITECT W/TANKLESS HEATER. SEE MOUNT AT ACCESSIBLE HEIGHT PER ARCHITECTURAL DWG. A700.
	LAV3-HC	BRADLEY	CONTROL-TMA-HEAT277NDITE POWERED INFRARED CONTROL	PREASSEMBLED, MODULAR, LAVATORY SYSTEM WITH SOLID SURFACE TOP AND LAVATORY BOWLS, PUSH BUTTON TOUCHTIME ELECTRONIC METERING CONTROL. FLOW RATE: 0.5 GPM. COLOR BY ARCHITECT W/TANKLESS HEATER. SEE MOUNT AT ACCESSIBLE HEIGHT PER ARCHITECTURAL DWG. A700.
	ıŦ	WARE	FC00 70NIV	
<u>L_J</u>	LT MSK	WADE	5600-70NK MSB 24X24	FABRICATED STEEL LINT INTERCEPTOR WITH REMOVABLE GASKETED COVER, REMOVABLE STAINLESS STEEL FILTER, WHITE ACID-RESISTING COATING, THREADED INLET AND OUTLET. MOP SINK MOLDED STONE RECEPTOR WITH CAST BRASS DRAIN BODY, STAINLESS STEEL DOME STRAINER-LINT BASKET, VINYL BUMPER GUARD; T&S B665 CC-BST-MRS SUPPLY FITTING, VACUUM BREAKER, BUCKET HOOK, HOSE END
0	NON	I IAI	INIOD Z4AZ4	SPOUT, MALE IPS INLETS, FIAT 832 HOSE, BRACKET.
2	PRV	WATTS	2300	BRONZE BODY NON-CORROSIVE INTERNAL PARTS, BUILT-IN THERMAL EXPANSION BY-PASS RENEWABLE SEAT, DISC AND DIAPHRAGM, STRAINER WITH STAINLESS STEEL SCREEN, ADJUSTABLE 25 TO 75 PSI REDUCED PRESSURE RANGE SUITABLE FOR 300 PSI INLET WATER PRESSURE; WATTS 223S WITH SEALED CAGE CONSTRUCTION.
0	RD	FROET	100C4LP-90	BI-FUNCTIONAL ROOF DRAIN CAST IRON ROOF DRAIN BODY WITH 15" DIAMETER ANCHOR FLANGE, WATERPROOFING MEMBRANE CLAMP RINGS WITH INTEGRAL GRAVEL STOP AND CAST IRON DOME STRAINERS.
	SA	ZURN	Z-1700	PISTON OPERATED WATER HAMMER ARRESTOR WITH HARD DRAWN SEAMLESS "K" COPPER BODY, RYTON PPS PISTON WITH DOUBLE O-RINGS AND CDA 360 BRASS M.P.T. CONNECTION. CERTIFIED TO THE A.S.S.E. 1010-1996 AND ANSI A112.26.1M STANDARDS. ENGINEERED TO LIMIT THE SYSTEM SURGE PRESSURE UP TO 1,500 P.S.I.G.
0	SD	WADE SYMMONS	3290 4-141 HEAD, 1.5gpm	SCUPPER DRAIN AT SEATS, CAST IRON, 90 DEGREE THREADED SIDE OUTLET PARAPET DRAIN FLUSH SET SECURED NICKEL BRONZE FLASHING CLAMP AND GRATE. SHOWER (FLOORS, WALLS AND TOPS TILED BY OTHERS), 36"x36", 2" CAST BRASS DRAIN WITH CHROME PLATED STRAINER. TEMPTROL SHOWER WITH PRESSURE BALANCING MIXING VALVE, INTEGRAL SERVICE STOPS, SHOWER
○ ∇	SH-HC	SYMMONS	C-86-2-X VALVE WITH LEVER HANDLE 4-141 HEAD, 1.5gpm	HEAD ANCHOR PLATE AND LEVER HANDLE. SEE DWG. A-002. BARRIER-FREE SHOWER (FLOORS, WALLS AND TOPS TILED BY OTHERS), 2" FLOOR DRAIN CAST BRASS DRAIN WITH CHROME PLATED STRAINER; TEMPTROL SHOWER WITH PRESSURE BALANCING MIXING VALVE,
○	HEAD/ VALVE		C-96-500-B30-V-X VALVE W/LEVER HANDLE	INTEGRAL SERVICE STOPS, SHOWER HEAD ANCHOR PLATE AND LEVER HANDLE. SEE DWG. A-002.
	SI SK	JR SMITH ELKAY	8710 LR1918	SOLIDS INTERCEPTOR, WHITE DUCO COATED CAST IRON BODY AND ALUMINUM GASKETED COVER AND SEDIMENT STRAINER WITH REMOVABLE STAINLESS STEEL SCREENS. SINK; 18 GAUGE, TYPE 316 STAINLESS STEEL, 19"x18" LONG X 8" DEEP, TWO-HOLE FAUCET DRILLING, WITH LKAD-35 BASKET STRAINER AND DRAIN TAILPIECE ASSEMBLY; 8" SINGLE LEVER HANDLE, COUNTER MOUNTED FAUCET.
lacksquare	FAUCET	SYMMONS	S-23-3 LEVER HANDLE 0.5 GPM FLOW	SINK, 10 CACCE, THE STO STAINEESS STEEL, 19 XTO ECINO X O BEEF, TWO-HOLE FACEL BRILLING, WITH ENAB-33 BACKET STRAINER AND BRAIN TAIL IECE ACCEMBET, O SINCLE ELVERTIANDEE, COUNTER MOCHTED FACELT.
	SK-HC	ELKAY	LRAD1918	HANDICAP ACCESSIBLE SINK; 18 GAUGE, TYPE 316 STAINLESS STEEL, 19"x18" LONG X 6" DEEP OFFSET TO THE REAR AND LEFT OR RIGHT, TWO-HOLE FAUCET DRILLING, WITH LKAD-35 BASKET STRAINER AND OFFSET DRAIN REAR/RIGHT OR LEFT TAILPIECE ASSEMBLY; 8" SINGLE LEVER HANDLE, COUNTER MOUNTED FAUCET. PROVIDE "TRUEBRO" INSULATION KIT ON WASTE AND SUPPLIES. MOUNT AT ACCESSIBLE HEIGHT PER ARCHITECTURAL DWG. A-002.
	FAUCET &	SYMMONS	S-23-3 LEVER HANDLE 0.5 GPM FLOW	A-002.
\\\\	TMC	RAYCHEM	HWAT-R2 C910-485	TEMPERATURE MAINTENANCE CABLE, 208V. SELF-REGULATING CABLE SYSTEM CONTROLLED BY HWAT-ECO CONTROL PANEL. SET AT 110 F. & 140 F. DIGITAL TEMPERATURE CONTROLLER WITH BUILT-IN GROUND-FAULT PROTECTION DEVICE SINGLE CIRCUIT LOCAL DIGITAL CONTROLLER SHALL BE HWAT-ECO -B, 30 AMPS EACH, 208V. PROVIDE ON ALL HOT WATER MAINS AND BRANCH LINES FROM WATER HEATERS UP TO FIXTURE, FAUCET OR OUTLET SEE SPECIFICATION SECTION 220534 FOR MORE DETAILS.
×	TMV	SYMMONS	5-110	THERMOSTATIC MIXING VALVE - KITCHEN SINKS, 3/8" INLETS, 3/8" OUTLET.
	TD	ZURN	ZS880	TRENCH DRAIN - SHOWER - All Type 304 (CF8) Fabricated Stainless Steel Linear Shower Drain. Complete with vertically adjustable anchoring support legs, anti-ponding V-shaped channel with 2" No-Hub center outlet, adjustable secured leveling frame with built-in tile edge, and secured, light-duty, slotted heel-proof grate. Drain is designed for installation in a minimum 2" concrete pour and can be adjusted to accommodate 1/4" and 3/8" finished tile thicknesses.
	TD	WADE	2920-27	TRENCH DRAIN - EXTERIOR - CAST IRON CENTER OUTLET TRENCH SHALL BE MANUFACTURED USING CAST IRON CHANNELS WITH VANDAL PROOF GRATING WITH NOMINAL 16"INCH WIDTH. FURNISH WITH OUTLET SECTIONS WITH SEDIMENT BASKETS WHERE DRAIN DISCHARGES. GRATE: DUCTILE IRON FRAME AND RATE, LOAD CLASS: E.
_	TP	PROSET	TG-23	TRAP PRIMER INSERT, AN ELASTOMERIC, NORMALLY CLOSED TRAP GUARD DEVICE UTILIZES A NORMALLY CLOSED SEAL TO PREVENT EVAPORATION OF THE TRAP SEAL AND ALSO PROTECT AGAINST SEWER GASES FROM BACKING UP INTO HABITABLE AREAS. IT OPENS WITH FLUID AND ALLOWS LIQUID DRAINAGE TO FLOW THROUGH INTO THE BUILDING DRAIN.
₽	UR	KOHLER	K-4919 WATERLESS	VITREOUS CHINA URINAL, WATERLESS, CATRIDGE FREE, WHITE, WALL HUNG, 2" I.P.S. OUTLET. LIP MOUNTED 24" A.F.F. WALL & SPUD FLANGES. WITH REMOVABLE STRAINER, SEALING LIQUID SAMPLE, CLEANER SAMPLE, URINE BALL SAMF UNIVERSAL MOUNTING BRACKET AND HANGERS.
₽	UR-HC	KOHLER	K-4919 WATERLESS	VITREOUS CHINA URINAL, WATERLESS, CATRIDGE FREE, WHITE, WALL HUNG, 2" I.P.S. OUTLET. LIP MOUNTED 17" A.F.F. WALL & SPUD FLANGES. WITH REMOVABLE STRAINER, SEALING LIQUID SAMPLE, CLEANER SAMPLE, URINE BALL SAMP UNIVERSAL MOUNTING BRACKET AND HANGERS.
Ů	WC FLUSH	тото	CT-708 EVG SC534 SEAT TET2LN31#SS FLUSH VALVE	VITREOUS CHINA WALL HUNG WATER CLOSET, ELONGATED BOWL, SIPHON JET, TOP SPUD, 1.28 GALLON FLUSH W/SOLID PLASTIC OPEN FRONT SEAT. EXPOSED, CHROME TOP SPUD FLUSH VALVE W/ANGLE STOP, VACUUM BREAKER, WALL & SPUD FLANGES. WADE 330 CHAIR CARRIER. AUTOMATIC INFRARED SENSOR ACTIVATED, FLUSH VALVE. HEAVY DUTY 14" x 12" STAINLESS STEEL, COVERPLATE WITH SATIN FINISH & VANDAL RESISTANT MOUNTING SCREWS. PISTON VALVE W/STAINLESS STEEL SELF-CLEANING DEGRIS SCREEN & SELF-CLEANING SOLENOID. AUTOMATIC FLUSH EVERY 20 HOURS IF NOT USED. ELECTRICAL SENSOR SEPARATED FROM VALVE & SEALED IN A WATERPROOF COMPARTMENT.
	WC-HC	ТОТО	CT-708 EVG SC534 SEAT TET2LN31#SS FLUSH VALVE	MANUAL OVERRIDE BUTTON INCORPORATED. FLUSH VALVES WILL FULLY RECHARGE THE VALVE FOR UP TO 10 YEARS. VITREOUS CHINA WALL HUNG WATER CLOSET, ELONGATED BOWL, SIPHON JET, TOP SPUD, 1.28 GALLON FLUSH W/SOLID PLASTIC OPEN FRONT SEAT. EXPOSED, CHROME TOP SPUD FLUSH VALVE W/ANGLE STOP, VACUUM BREAKER, WALL & SPUD FLANGES. WADE 330 CHAIR CARRIER. AUTOMATIC INFRARED SENSOR ACTIVATED, FLUSH VALVE. HEAVY DUTY 14" x 12" STAINLESS STEEL, COVERPLATE WITH SATIN FINISH & VANDAL RESISTANT MOUNTING SCREWS. PISTON VALVE W/STAINLESS STEEL SELF-CLEANING DEGRIS SCREEN & SELF-CLEANING SOLENOID. AUTOMATIC FLUSH EVERY 20 HOURS IF NOT USED. ELECTRICAL SENSOR SEPARATED FROM VALVE & SEALED IN A WATERPROOF
Ö	FLUSH		4422C	COMPARTMENT. MANUAL OVERRIDE BUTTON INCORPORATED. FLUSH VALVES WILL FULLY RECHARGE THE VALVE FOR UP TO 10 YEARS. MOUNT AT ACCESSIBLE HEIGHT PER ARCHITECTURAL DWG. A-002. DUCO CAST IRON BODY W/CAST BRONZE TAMPER THREADED PLUG AND STAINLESS STEEL ROUND COVER
	FLUSH &	JR SMITH		
Ů	&	JR SMITH WOODFORD	B67	FREEZELESS PROOF, FLUSH MOUNTED WALL BOX WITH BACKFLOW PREVENTER
Ů →	WCO		B67 MWH	FREEZELESS PROOF, FLUSH MOUNTED WALL BOX WITH BACKFLOW PREVENTER WATER HAMMER ARRESTOR
Ů →	WCO WH	WOODFORD		
°	WCO WH WHA	WOODFORD MIFAB	MWH	WATER HAMMER ARRESTOR

PLUMBING FIXTURE/EQUIPMENT SCHEDULE

THE DRAWINGS AND SPECIFICATIONS ARE DIVIDED INTO SECTIONS TO MEET THE NEEDS OF THE ARCHITECT, THE ENGINEERS AND THE DESIGN CONSULTANTS. THEY ARE NOT PREPARED INSTRUCTIONS TO THE CONTRACTOR FOR HOW TO BUY OUT OR SUBCONTRACT THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR ALL THE WORK DESCRIBED IN THE CONTRACT DOCUMENTS, REGARDLESS OF WHERE IT IS SHOWN. FOR EXAMPLE, ELECTRICAL WORK MAY BE SHOWN ON "FP" DRAWINGS AS WELL AS ON "M" DRAWINGS AND "E" DRAWINGS. MISCELLANEOUS METALS AND STRUCTURAL MAY BE SHOWN ON "A" DRAWINGS AS WELL AS ON "S" DRAWINGS. STRUCTURAL SUPPORTS ARE REQUIRED BY THE "FP" DRAWINGS. TO AVOID OMITTING ANY COMPONENT OF THE PROJECT, REFER TO ALL THE CONTRACT DRAWINGS IN THEIR ENTIRETY.

Project Title:
Hinsdale School Alterations
15 Hinsdale Ave. Winsted, CT 06098



SILVER / PETRUCELLI + A	SSOCIATES	Revision:	Description:	Date:	Revised I
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		PIPE A	ND FITTING	G SCHEDU	LE	
		PI	PE	FITT	ING	
DESCRIPTION	SIZE	TYPE	SCHEDULE	TYPE	RATING	REMARKS
SOIL, WASTE AND VENT ABOVE GROUND	ALL	CI-NH / PVC	SV / 40	CI / PVC	SV / 40	4 BAND FOR 4" AND SMALLER 6 BAND FOR LARGER THEN 4"
SOIL, WASTE AND VENT BELOW GROUND	ALL	CI-H&S / PVC	SV / 40	CI / PVC	SV / 40	
SOIL, WASTE AND VENT BELOW FOOTING	ALL	DI	80			
STORM ABOVE GROUND	ALL	CI-NH / PVC	SV / 40	CI / PVC	SV / 40	4 BAND FOR 4" AND SMALLER 6 BAND FOR LARGER THEN 4"
STORM BELOW GROUND	ALL	CI-H&S / PVC	SV / 40	CI / PVC	SV / 40	
STORM BELOW FOOTING	ALL	DI	80			
DOMESTIC WATER WITHIN BUILDING	ALL	COPPER	TYPE L	CUS	STD	HARD TEMPERED
INDIRECT WASTE AND CONDENSATE PIPING	ALL	COPPER	TYPE L	CUS	STD	HARD TEMPERED
DOMESTIC HOT & COLD WATER PIPING WITHIN BUILDING, BELOW SLAB	1-1/2" AND SMALLER	PEX				NO JOINTS ALLOWED BELOW SLAB
DOMESTIC HOT & COLD WATER PIPING WITHIN BUILDING, BELOW SLAB	2" AND LARGER	COPPER	TYPE K	CUS	STD	SOFT TEMPERED, NO JOINTS BELOW SLAB
DOMESTIC WATER SERVICE PIPING	2-1/2" AND SMALLER	COPPER	TYPE K	CUS	STD	SOFT TEMPERED, NO JOINTS BELOW SLAB
DOMESTIC WATER SERVICE PIPING	3" AND LARGER	CLDI	CLASS 52	DIMJ	250	
TRAP PRIMER PIPING	ALL	PEX				NO JOINTS ALLOWED BELOW SLAB

1. TRANSITION COUPLINGS AND NO-HUB PIPE SHALL NOT BE INSTALLED BELOW SLAB OR IN ANY BURIED CONDITIONS IN CONTACT WITH EARTH

2. ALL PIPING IN RETURN AIR CEILING PLENUM INSTALLATIONS SHALL BE UL LISTED FOR THIS APPLICATION

3. MECHANICAL JOINTS ARE ALLOWED FOR SERVICE PURPOSED ONLY IN WALLS AND CEILINGS BUT MUST BE READILY ACCESSIBLE. 25/50 PVDF IS UL LISTED FOR RETURN AIR CEILING PLENUM INSTALLATIONS

4. FOR ITEMS INSTALLED IN PLENUM RATED CEILING, MATERIALS SHALL COMPLY WITH ASTM E 84 WITH FLAME-SPREAD INDEX OF 25 OR LESS, AND SMOKE-DEVELOPED INDEX OF 50 OR LESS.

5. FIRE-BARRIER PENETRATIONS: MAINTAIN INDICATED FIRE RATING OF WALLS, PARTITIONS, CEILINGS, AND FLOORS AT PIPE PENETRATIONS, REFER TO ARCHITECTURAL PLANS FOR LOCATIONS. SEAL PIPE PENETRATIONS WITH FIRESTOP MATERIALS, REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION

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ABBREVIATIONS	DESCRIPTION	ABBREVIATIONS	DESCRIPTION
AWWA	AMERICAN WATER WORKS ASSOCIATION	MIT	MALLEABLE IRON THREADED
Cl	CAST IRON	NH	NO HUB W/SUPER DUTY HUSKY SD 4000 CLAMP
CLDI	CEMENT LINED DUCTILE IRON	PEX	PEX PIPING
CPVC	CHLORINATED POLYVINYL CHLORIDE	PF	PRESSURE FITTING
CUS	WROUGHT COPPER SOLDER (95/5)	PVDF	POLYVINYLIDENE FLUORIDE PIPING
DI	DUCTILE IRON	POLY-PRO	POLYPROPYLENE PIPING
DIMJ	DUCTILE IRON MECHANICAL JOINT	STD	STANDARD
GES	GROOVED END STEEL	STL-BLK	BLACK STEEL
GJ	GROOVED JOINT SYSTEM FITTINGS/COUPLINGS	SV	SERVICE WEIGHT
<i>G</i> S	GALVANIZED STEEL	TJ	THREADED JOINTS
H \$ S	HUB AND SPIGOT	WE	BUT WELD
MJ	MECHANICAL JOINT		

VALVE SCHEDULE								
DESCRIPTION	SIZE		TYPE					
	512E	GATE	CHECK	BALL	PLUG	BALANCE	CLASS	REMARKS
DOMESTIC COLD WATER	2" AND SMALLER	GVT	CVT	BVT			125PSI	
DOMESTIC HOT WATER	2" AND SMALLER	GVT	CVT	BVT		CBV	125PSI	
DOMESTIC COLD WATER	2-1/2" AND LARGER	GVF	CVF				125PSI	
DOMESTIC HOT WATER	2-1/2" AND LARGER	GVF	CVF			CBV	125PSI	
BACKFLOW PREVENTER	2" AND SMALLER			BVT			125PSI	
BACKFLOW PREVENTER	2-1/2" AND LARGER	GVF					125PSI	

1. SOLENOID VALVE: UL LISTED, FM APPROVED FOR GAS SERVICE, EXPLOSION PROOF, TWO -WAY NORMALLY CLOSED. ASCO 8044 SERIES W/MANUAL RESET. (EMERGENCY GAS SHUT-OFF VALVE ASSEMBLY)

2. CALIBRATED PRESSURE RELIEF VALVE: INSTALL A MINIMUM OF 12" ABOVE WATER HEATER AND PIPE DISCHARGE TO ADEQUATE LOCATION. WATTS MODEL 540C

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
BVA	BALL VALVE COMPRESSED AIR - 3-PIECEI, FULL PORT, BRONZE	CVF	CHECK VALVE FLANGED - IMMB
BVF	BALL VALVE FLANGED - FULL PORT, BRONZE	CVT	CHECK VALVE THREADED - BRONZE
PGVT	PLUG VALVE THREADED - AGA APPROVED	GVF	GATE VALVE FLANGED - IMMB
BVT	BALL VALVE THREADED - 2-PIECE, FULL PORT, 400PSI, BRONZE	GVT	GATE VALVE THREADED - BRONZE
CBV	CALIBRATED BALANCING VALVE - BRONZE	PGVF	PLUG VALVE FLANGED - AGA APPROVED
CPRV	CALIBRATED PRESSURE RELIEF VALVE		

Г				
	DRAIN SCHEDULE			
MADIC	EIVTLIDE MODEL ALLIMPED AALD DECORPTION		ROUGH-IN	
MARK	FIXTURE, MODEL NUMBER AND DESCRIPTION	TRAP	WASTE	VENT
FD-1	FLOOR DRAIN (MECHANICAL ROOM). WATTS FD-320-Y, HEAVY DUTY CAST IRON BODY, BOTTOM OUTLET. 9" DIAMETER CAST IRON TOP, TRAP PRIMER CONNECTION, SEEPAGE PAN AND COMBINATION MEMBRANE FLASHING CLAMP	AS NOTED ON DRWGS.	AS NOTED ON DRWGS.	AS NOTED ON DRWGS.
FD-2	FLOOR DRAIN (TOILET ROOM). WATTS FD-1100-A5, HEAVY DUTY CAST IRON BODY, BOTTOM OUTLET. 6"X6" SQUARE NICKE BRONZE TOP, TRAP PRIMER CONNECTION, SEEPAGE PAN AND COMBINATION MEMBRANE FLASHING CLAMP	LAS NOTED ON DRWGS.	AS NOTED ON DRWGS.	AS NOTED ON DRWGS.
FD-3	FLOOR DRAIN (KITCHEN). WATTS FD-320-Y, HEAVY DUTY CAST IRON BODY, BOTTOM OUTLET. 9" DIAMETER CAST IRON TOP, TRAP PRIMER CONNECTION, SEEPAGE PAN AND COMBINATION MEMBRANE FLASHING CLAMP	AS NOTED ON DRWGS.	AS NOTED ON DRWGS.	AS NOTED ON DRWGS.
FD-4	FLOOR SINK (KITCHEN). WATTS FS-790-FC-5-6-150, 14 GAUGE 304 STAINLESS STEEL, BOTTOM OUTLET. 12"X12"X8" DEEP, CAST STAINLESS STEEL GRATE, DOME BOTTOM STRAINER, SEEPAGE PAN AND COMBINATION MEMBRANE FLASHING CLAMP STAINLESS STEEL SEDIMENT BUCKET, 1/2 GRATE FOR INDIRECT WASTE	AS NOTED ON DRWGS.	AS NOTED ON DRWGS.	AS NOTED ON DRWGS.
RD	ROOF DRAIN. FROET 200C SERIES, HEAVY DUTY DRAIN WITH 14" - 18" DIAMETER CAST IRON BODY, BOTTOM OUTLET, CASTIRON DOME, ROOF SUMP RECEIVER, UNDER DECK CLAMP, ("NOTE: INCLUDE EXTENSION COLLAR AS REQUIRED FOR INSULATION OF CONSTRUCTION THICKNESS) EXTENSION, AND COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD.	AS NOTED ON DRWGS.	AS NOTED ON DRWGS.	AS NOTED ON DRWGS.
OD	ROOF DRAIN. FROET 200C SERIES, HEAVY DUTY DRAIN WITH 14" - 18" DIAMETER CAST IRON BODY, BOTTOM OUTLET, CASTIRON DOME, ROOF SUMP RECEIVER, UNDER DECK CLAMP AND 2" HIGH OVERFLOW WATER DAM ("NOTE: INCLUDE EXTENSION COLLAR AS REQUIRED FOR INSULATION OF CONSTRUCTION THICKNESS) EXTENSION, AND COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD.	AS NOTED ON DRWGS.	AS NOTED ON DRWGS.	AS NOTED ON DRWGS.
OST	DOWNSPOUT NOZZLE, FROET LPS, POWDER COATED ALUMINUM. PROVIDE WITH FLAPPER. COORDINATE COLOR WITH ARCHITECT. COORDINATE SIZING WITH OVERFLOW DRAINAGE. REFER TO DRAWINGS.	NA	AS NOTED ON DRWGS.	NA

1. PROVIDE TRAP PRIMERS FOR ALL DRAINS. DRAINS INCORPORATING A CONSTANT AND REGULAR WASTE ARE NOT REQUIRED TO INTERGRATE TRAP PRIMERS (I.E. SHOWER DRAINS, KITCHEN 2.TRANSITION COUPLINGS AND NO-HUB PIPE SHALL NOT BE INSTALLED BELOW SLAB OR IN ANY BURIED CONDITIONS IN CONTACT WITH EARTH

CLEANOUT SCHEDULE								
MARK	FIXTURE, MODEL NUMBER AND DESCRIPTION	TRAP SIZE	REMARKS					
FCO	FLOOR CLEANOUT (ALL INTERIOR AREAS EXCEPT CARPETED AREAS). WATTS CO-200-RX-C-6, ADJUSTABLE ROUND SCORIATED HEAVY DUTY NICKEL BRONZE SECURED TOP WITH FRAME, CAST IRON BODY, FLASHING FLANGE AND CLAMP, BRONZE PLUG. PROVIDE WITH VANDAL PROOF SCREWS. PROVIDE NICKEL BRONZE FRAME IN WET AREAS.	AS NOTED N ON DWG.						
FCO	FLOOR CLEANOUT (CARPETED AREAS). WATTS CO-200-RC-6, ADJUSTABLE ROUND SCORIATED HEAVY DUTY NICKEL BRONZE SECURED TOP WITH FRAME, CARPET MARKER, CAST IRON BODY, FLASHING FLANGE AND CLAMP, BRONZE PLUG. PROVIDE WITH VANDAL PROOF SCREWS.	AS NOTED ON DWG.						
YCO	FLOOR CLEANOUT (EXTERIOR AREAS). WATTS CO-300-MF-6 WITH CO-380 ROUND FLANGED HOUSING WITH HEAVY DUTY SCORIATED DUCTILE IRON TOP, CLEANOUT FERRULE BODY WITH BRONZE PLUG. INSTALL CLEANOUT WITH 18"SQUARE X 6" DEEP CONCRETE APRON IN NON-PAVED AREAS. PROVIDE WITH VANDAL PROOF SCREWS.	S AS NOTED ON DWG.						
WCO	WALL PLATE CLEANOUT COVER. WATTS CO-590-RD, PROVIDE AT CAST IRON CLEANOUTS WITH COUNTERSUNK BRASS PLUG AND STAINLESS STEEL COVER SECURED WITH VANDAL PROOF SCREWS.							

1. TRANSITION COUPLINGS AND NO-HUB PIPE SHALL NOT BE INSTALLED BELOW SLAB OR IN ANY BURIED CONDITIONS IN CONTACT WITH EARTH 2. PROVIDE ALL POURED IN PLACE CLEANOUTS WITH 24"X24" FLASHING

INSULATION SCHEDULE								
SYSTEM	PIPE SIZE	INSULATION TYPE	INSULATION THICKNESS	FITTINGS, VALVES, FLANGES INSULATION TYPE	REMARKS			
DOMESTIC COLD WATER	ALL	MINERAL FIBER, ASJ, SSL	1"	MOLDED, PRE-FORMED MINERAL FIBER WITH PVC JACKET	TYPE 1			
DOMESTIC HOT WATER & HWC	< 1-1/2"	MINERAL FIBER, ASJ, SSL	1"	MOLDED, PRE-FORMED MINERAL FIBER WITH PVC JACKET	TYPE 1			
DOMESTIC HOT WATER & HWC	> 1-1/2"	MINERAL FIBER, ASJ, SSL	1"	MOLDED, PRE-FORMED MINERAL FIBER WITH PVC JACKET	TYPE 1			
DOMESTIC WATER UNDERGROUND & INSLAB	ALL	CLOSED CELL	1"	ARMAFLEX				
KITCHEN WASTE UNDERGROUND	ALL	CLOSED CELL	1"	CELLULAR GLASS (FOAM GLASS)				
KITCHEN WASTE ABOVE GROUND	ALL	MINERAL FIBER, ASJ, SSL	1"	MOLDED, PRE-FORMED MINERAL FIBER WITH PVC JACKET	TYPE 1			
CONDENSATE	ALL	MINERAL FIBER, ASJ, SSL	1/2"	MOLDED, PRE-FORMED MINERAL FIBER WITH PVC JACKET	TYPE1			
INTERIOR ROOF DRAIN PIPING	ALL	MINERAL FIBER, ASJ, SSL	1"	MOLDED, PRE-FORMED MINERAL FIBER WITH PVC JACKET	TYPE 1 INCLUDE ROOF DRAIN BODY			
FLOOR DRAIN TRAP IN MECHANICAL ROOM	ALL	MINERAL FIBER, ASJ, SSL	1"	MOLDED, PRE-FORMED MINERAL FIBER WITH PVC JACKET	TYPE 1 INCLUDE 8' HORIZONTAL RUN			
EXTERIOR PIPE	ALL	CELLULAR GLASS (FOAM GLASS)	2"	CELLULAR GLASS (FOAM GLASS)	ALUMINUM JACKET WITH FREEZE PROTECTION HEAT TRACE			

1. FIBERGLASS INSULATION: THERMAL CONDUCTIVITY .22 TO .28 BTU \times IN./H \times FT \times °F W/ 100°F MEAN TEMP. THICKNESS BASED ON ASHRAE 90.1, 2007 6.8.3

2. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

B. ALL KITCHEN WASTE SHALL BE HEAT TRACED FROM FIXTURE TO THE GREASE INTERCEPTOR

4. FOR ITEMS INSTALLED IN PLENUM RATED CEILING, MATERIALS SHALL COMPLY WITH ASTM E 84 WITH FLAME-SPREAD INDEX OF 25 OR LESS, AND SMOKE-DEVELOPED INDEX OF 50 OR LESS. 5. FIRE-BARRIER PENETRATIONS: MAINTAIN INDICATED FIRE RATING OF WALLS, PARTITIONS, CEILINGS, AND FLOORS AT PIPE PENETRATIONS, REFER TO ARCHITECTURAL PLANS FOR LOCATIONS. SEAL PIPE PENETRATIONS WITH FIRESTOP MATERIALS, REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION

MADIZ	FIVELINE MODEL ALLIMPED AAID DECORPTION	ROUGH-IN				
MARK	FIXTURE, MODEL NUMBER AND DESCRIPTION	WASTE/ SANITARY	VENT	CW	HW	
W-1	WATER CLOSET, WALL HUNG, SLOAN WETS-2450.1001-1.28 , VITREOUS CHINA, ELONGATED BOWL, 1-1/2" TOP SPUI SIPHON JET TOILET WITH WALL SUPPLY, 1.28 GPF MANUAL FLUSH VALVE. CHURCH 295CT OPEN FRONT SEAT. PROVIDE ALL ITEMS REQUIRED FOR COMPLETE INSTALLATION.	O, 4"	2°	1"		
W-1A	WATER CLOSET, A.D.A. COMPLIANT, WALL HUNG, SLOAN WETS-2450.1001-1.28, VITREOUS CHINA, ELONGATED BOWL, 1-1/2" TOP SPUD, SIPHON JET TOILET WITH WALL SUPPLY, 1.28 MANUAL FLUSH VALVE. CHURCH 295CT OPE FRONT SEAT. ENSURE THAT HANDLE FOR FLUSH VALVE IS ON OPEN SIDE OF STALL FOR ALL ADA INSTALLATIONS. PROVIDE ALL ITEMS REQUIRED FOR COMPLETE INSTALLATION.	N 4"	2"	1"		
W-2A	WATER CLOSET, CHILD HEIGHT, FLOOR MOUNTED, KOHLER "PRIMARY" K-4321, VITREOUS CHINA, ELONGATED BOWL, 1-1/2" TOP SPUD, SIPHON JET TOILET WITH WALL SUPPLY. SLOAN ROYAL 142-1.6 MANUAL FLUSH VALVE 1.6 GPF. FLUSH VALVE IS CONCEALED IN WALL. KOHLER K-4686-A OPEN FRONT SEAT. PROVIDE ALL ITEMS REQUIRED FOR COMPLETE INSTALLATION.	4"	2"	1"		
W-3A	WATER CLOSET, A.D.A. COMPLIANT, WALL HUNG, SLOAN WETS-2450.1001-1.28, VITREOUS CHINA, ELONGATED BOWL, 1-1/2" TOP SPUD, SIPHON JET TOILET WITH WALL SUPPLY, SLOAN ROYAL 142-1.6 MANUAL FLUSH VALVE 1.6 GPF. FLUSH VALVE IS CONCEALED IN WALL. CHURCH 295CT OPEN FRONT SEAT. PROVIDE ALL ITEMS REQUIRED FOR COMPLETE INSTALLATION.	4"	2"	1"		
U - 1	URINAL, WALL HUNG, SLOAN WEUS-1000.1001-0.125, VITREOUS CHINA 3/4"INLET SPUD WALL SUPPLY WASHOUT URINAL WITH FULLY ENCLOSED P-TRAP. SLOAN ROYAL 186-0.125 MANUAL FLUSH VALVE .125 GPF. PROVIDE ALL ITEMS REQUIRED FOR COMPLETE INSTALLATION.	2"	2"	3/4"		
U-1A	URINAL, A.D.A. COMPLIANT, WALL HUNG, SLOAN WEUS-1000.1001-0.125, VITREOUS CHINA 3/4"INLET SPUD WALL SUPPLY WASHOUT URINAL WITH FULLY ENCLOSED P-TRAP. SLOAN ROYAL 186-0.125 MANUAL FLUSH VALVE .125 GPF. PROVIDE ALL ITEMS REQUIRED FOR COMPLETE INSTALLATION.	5 2"	2"	3/4"		
L-1A	LAVATORY, WALL HUNG, SLOAN SS-3003 VITREOUS CHINA WALL MOUNT LAVATORY, CHICAGO FAUCETS MODEL 857-E2805-665PSHAB SINGLE TEMPERATURE, METERING HANDLE PUSH HANDLE FAUCET, 0.5 GPM. 1-1/2 CHROME PLATED CAST BRASS P-TRAP, SUPPLIES, BRASS ANGLE STOPS WITH LOOSE KEY OPERATION, GRID DRAIN, ETC. FOR EACH GROUPING OF LAVATORIES, PROVIDE CHICAGO FAUCETS MODEL 131-ABNF BELOW DECK THERMOSTATIC MIXING VALVE, ASSE 1070, IN PLUMBING CHASE BEHIND LOCKING ACCESS DOOR. FOR COMPLET INSTALLATION. COORDINATE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.	2"	1-1/2"	1/2"	1/2'	
L-2A	LAVATORY, WALL MOUNTED, BRADLEY MG-2 / BIR3 EXPRESS LAVATORY SYSTEM, TERREON SOLID SURFACE MATERIAL, CONTINUOUS BOWL WITH TWO LAVATORIES, SPRAYHEAD, PEDESTAL, STAINLESS STEEL MOUNTING FRAME, BATTERY POWERED, ASSE-1070 THERMOSTATIC MIXING VALVE, INFRARED SENSOR FAUCET, 0.5 GPM FLOW RATE. 1-1/2" CHROME PLATED CAST BRASS P-TRAP, SUPPLIES, BRASS ANGLE STOPS WITH LOOSE KEY OPERATION, GRID DRAIN, ETC. FOR COMPLETE INSTALLATION. COORDINATE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION. NOTE: PROVIDE ONE HOSE BIB MOUNTED NEAR LAVATORY (HB) PER RESTROOM.	2"	1-1/2"	1/2°	1/2	
EWC-A	ELECTRIC WATER COOLER W/BOTTLE FILLING STATION, ADA COMPLIANT, ELKAY EZSTLG8WSSK W/APRON ELKAY LKAPREZL, A.D.A. COMPLIANT WHEN PROPERLY INSTALLED, A.D.A. COMPLIANT CONTROLS, FRONT PUSH BAR CONTROLS, (FRONT MOUNT PUSH BUTTON SHALL BE OPERABLE WITH A 5 LB. MAXIMUM FORCE), ELECTRICAL RATING; 115 VOLTS, 60HZ RATED WATTS:360, FULL LOAD AMPS:4.2, MINIMUM COOLING CAPACITY: 8 GPH	2"	1-1/2"	1/2"		
MSB	MOP SINK, FIAT MSB2424, MOLDED STONE, 24x24x10, SERVICE FAUCET PLATE #830-AA, HOSE AND HOSE BRACKET PLATE #832- AA, BUMPER GUARD PLATE #E-77-AA, SS MOP HANGER #889-CC, MOP SINK DRAIN GASKET #QDC3XH, WALL GUARDS #MSG24, WITH INTEGRAL DRAIN. PROVIDE THREADED HOSE BIBB CONNECTION FOR CHEMICAL FEED SYSTEM (SEE DETAIL). PROVIDE TRAP, SUPPLIES, STOPS, ETC FOR COMPLETE INSTALLATION		2"	3/4"	3/4	
S-1A	SINGLE BOWL SINK: ADA COMPLIANT, ELKAY LRAD-2521, 25 X 21 X 6, 18 GAUGE TYPE 302 STAINLESS STEEL, SELF-RIMMING. FAUCET: DELTA 711LF-HDF (LEAD FREE) 1.5 GPM, SINGLE LEVER SWING SPOUT FAUCET LESS SPRAY PROVIDE 1/2" CHROME PLATED CAST BRASS P-TRAP, SUPPLIES, BRASS ANGLE STOPS WITH LOOSE KEY OPERATION, GRID DRAIN, ETC. FOR COMPLETE INSTALLATION.	· 1-1/2"	1-1/2"	1/2"	1/2	
S-2A	CLASSROOM SINK WITH DRINKING FOUNTAIN, ADA COMPLIANT, ELKAY DRKAD371755(L/R) FOR RIGHT OR LEFT HAND USE. PROVIDE WITH 5" BOWL DEPTH AND DRAIN OFFSET TO REAR. PROVIDE WITH SWING SPOUT FAUCET WITH WRIST BLADES, MODEL LKD2439BHC AND REMOTE CONTROLLED FLEXIGUARD BUBBLER MODEL LKR1141A. PUSHBUTTON SHALL BE LOCATED IN FRONT FACE OF COUNTER IN ACCESSIBLE LOCATION. PROVIDE TRAP, SUPPLIES. STOPS. ETC FOR COMPLETE INSTALLATION.	1-1/2"	1-1/2"	1/2"	1/2	
S-3A	3 STATION WASH TROUGH, ADA COMPLIANT, INTERSAN TM3C, 20 GAUGE TYPE 304 STAINLESS STEEL, TO BE ORDERED WITHOUT FAUCETS AND PUNCHED FOR 8" CENTERSET FAUCETS. FAUCET: T&S BRASS B-0230-132XA-CI PROVIDE 1.5 GPM FLOW RESTRICTOR, WALL MOUNTED MIXING FAUCET WITH 4" WRIST BLADE HANDLES. PROVIDE SUPPLIES, BRASS ANGLE STOPS WITH LOOSE KEY OPERATION, GRID DRAIN, ETC. FOR COMPLETE INSTALLATION.	ζ, 2"	2°	1/2" (3)	1/2" (
НВ	HOSE BIBB (UNFINISHED AREAS), WOODFORD MODEL 24, BRONZE BODY, REMOVABLE VALVE SEAT & STEM ASSEMBLY, THREADED END, INTEGRAL VACUUM BREAKERNOTE: PROVIDE ONE HOSE BIB MOUNTED NEAR LAVATORY (HB) PER RESTROOM.			3/4"		
FPHB	FREEZE PROOF HOSE BIBB, WOODFORD MODEL MB67, CAST BRONZE NON-FREEZE WALL HYDRANT WITH STAINLESS STEEL HINGED LOCKING COVER, 3/4"HPT OUTLETS, INTEGRAL DOUBLE CHECK BACKFLOW PREVENTED PRESSURE RELIEF VALVE, AND 3/4" FEMALE & 1" MALE NPT INLER CONNECTION	٤		3/4"		
SA	WATER HAMMER ARRESTOR, PRECISION PLUMBING PRODUCTS (PPP.) SC SERIES, 1/2"-1", SIZE PER MANUFACTURER RECOMMENDATIONS AND REQUIREMENTS			1/2"-1"		
TP	ELECTRIC TRAP PRIMER, PRECISION PLUMBING PRODUCTS (PPP.) PT SERIES, CONSISTING OF CIRCUIT BREAKER (MIN 2 AMP), SWITCH TIMER, SOLENOID VALVE, ANTI-SIPHON ATMOSPHERIC VACUUM BREAKER, 120V, SINGLE PHASE. SURFACE OR RECESSED CABINET BASED ON WALL CONDITIONS (REFER TO DWGS.) PROVIDE ACCESS DOOR FOR UNIT. COORDINATE ACCESS PANEL FINISH WITH ARCHITECT. COORDINATE NUMBER OF OUTLETS AS REQUIRED BY QUANTITY OF DRAINS. INSTALL PER MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS	2		3/4"		
CWC	WASHER TRIM, PRECISION PLUMBING PRODUCTS MM-500 MLB, 20 GAUGE STEEL LAUNDRY BOX WITH WHITE POVINTEGRAL WATER HAMMER ARRESTORS	WDER COAT FIN	IISH, QUARTE	R TURN BALL V	/ALVES &	

1. LAVATORY & WATER COOLERS SUPPLY SHALL BE BRASS W/ BRASS ANGLE STOPS FOR 1/2" WATER SUPPLY LINES, W/ LOOSE KEY (W/CAP), AND WALL FLANGE. ALL COMPONENTS SHALL BE POLISHED CHROME FINISH. MANUFACTURER: BRASS CRAFT OR APPROVED EQUAL.

2. CAST BODY "P" TRAP 1-1/2" x 1-1/2" WITH HEAVY CAST J-BEND & FLAT CLEANOUT PLUG, SLIP NUTS AND WALL FLANGE. ALL COMPONENTS SHALL BE POLISHED CHROME FINISH. MANUFACTURER: BRASS CRAFT OR APPROVED EQUAL.

3. STRAINERS SHALL BE FURNISHED WITH FIXTURES AS REQUIRED. FOR H/C LAVATORY OR SINKS PROVIDE OFFSET TAILPIECE.

4. PROVIDE TRUEBRO MODEL 103 (WHITE), ANTIMICROBAL HANDI LAV-GUARDS INSTALLATION KIT FOR ALL WHEELCHAIR LAVATORY & SINKS FOR WATER SUPPLIES & WASTE LINE.

5. PROVIDE WATER SUPPLY & "P" TRAP & OPTIONAL WATER FILTERS FOR ELECTRIC WATER COOLERS AS PER MANUFACTURERS RECOMMENDATIONS.

6. THE PLUMBING FIXTURES VENDOR SHALL COORDINATE WITH THE PLUMBING AND GENERAL CONTRACTOR ALL PLUMBING FIXTURES ROUGH IN DIMENSIONS BEFORE CONSTRUCTION BEGIN. 7. UNLESS SHOWN ABOVE, PLUMBING FIXTURES MANUFACTURER, TRIM COLOR AND FINISH SHALL BE FURNISHED AS DIRECTED BY OWNER/ARCHITECT.

8. REFER TO ARCHITECTURAL DRAWINGS FOR STANDARD, A.D.A MOUNTING AND CHILD HEIGHTS. REFER TO ARCHITECTURAL FOR LOCATION OF A.D.A COMPLIANT SHOWER SEAT AND SHOWER BARS

9. CONTRACTOR TO PROVIDE AN EXTRA 10% OF BATTERIES, AERATORS, CARTRIDGE, ETC...

Project Title:
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15 Hinsdale Ave.
Winsted, CT 06098



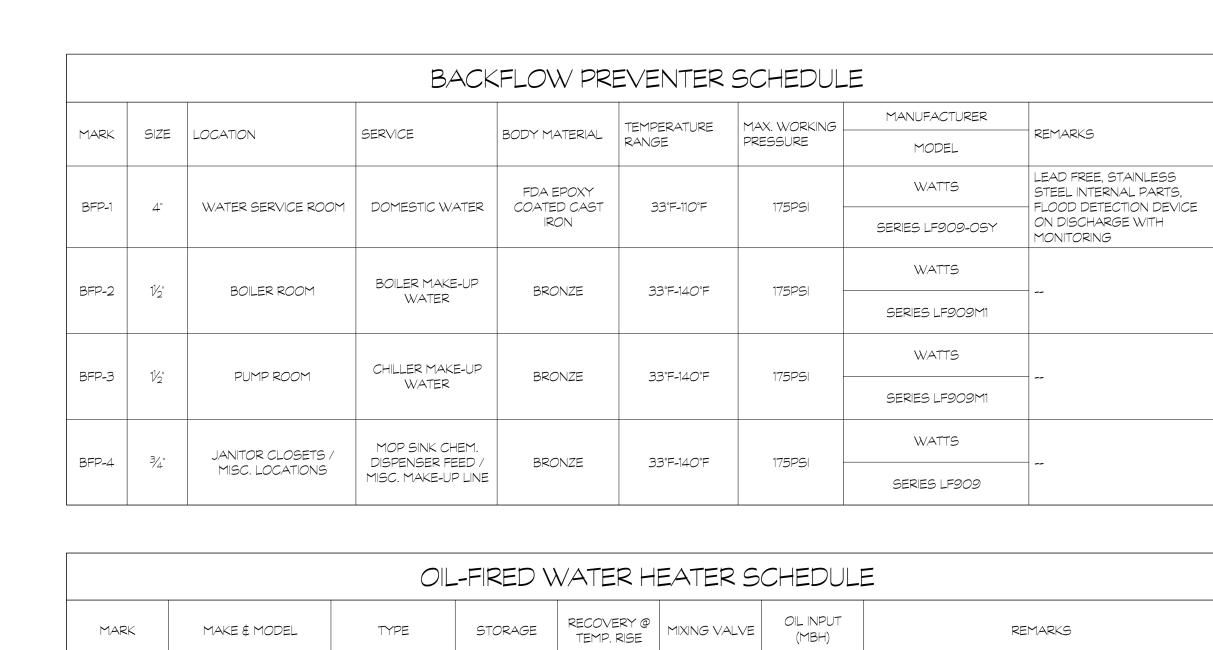
SILVER / PETRUCELLI + ASSOCIATES Architects / Engineers / Interior Designers

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Revision:	Description:	Date:	Revised By:

PLUMBING SCHEDULES State Project #: 162-0043RNV

Drawing Number: June 30, 2020 P902 Drawn By: JES Project Number: 18.223



OIL-FIRED WATER HEATER SCHEDULE									
MARK	MAKE & MODEL	TYPE	STORAGE	RECOVERY @ TEMP. RISE	MIXING VALVE	OIL INPUT (MBH)	REMARKS		
WH-1	A.O. SMITH COF-150-400	OIL-FIRED	150 GALLONS	387 GPH @100°F	TMV-1	400			
WH-2	A.O. SMITH COF-150-400	OIL-FIRED	150 GALLONS	387 GPH @100°F	TMV-1	400			

1. INSTALL WATER HEATER IN ACCORDANCE WITH BUILDING CODE - PLUMBING & MECHANICAL (WITH LATEST AMENDMENTS) CODES, ENERGY CODE, AND APPLICABLE STANDARDS AND MANUFACTURERS RECOMMENDATIONS.

2. PROVIDE BRASS DRAIN VALVE, & ALL REQUIRED OPTIONS TO COMPLETE THE INSTALLATION.

3. PROVIDE CONDENSATE NEUTRALIZER TANK FROM WATER HEATER MANUFACTURER.

	PUMP SCHEDULE												
MARK	LOCATION	GEDV//CE	PUMP TYPE	FLUID		HEAD		ELECT	RICAL		MANUFACTURER	DEMARKS	
MARK	LOCATION	SERVICE	PUMP TEPE	FLUID			VOLTAGE	PHASE	RPM	MODEL	REMARKS		
RP-1	BOILER ROOM			\\/ATED	15	19	1/6	120	1		GRUNDFOS	STAINLESS STEEL	
KP-I	BUILER RUUM	HOT WATER	RECIRC. PUMP	WATER	ס	9	1/0	120	1		ALPHA UPS 26-99	HOUSING	
55.0))/ATED	15	10	1/6	100	100			GRUNDFOS	STAINLESS STEEL
RP-2	BOILER ROOM	HOT WATER	RECIRC. PUMP	WATER	15	19	1/6	120			ALPHA UPS 26-99	HOUSING	
CD 1	POIL ED DOOM	WASTE	CLIDMEDCIDLE	WASTE	30	25	1/0	120	1		LIBERTY PUMPS	WITH SXL21=3	
SP-1	BOILER ROOM	WATER / EFFLUENT	SUBMERSIBLE	WATER	30	25	1/2	120	l		MODEL 280	CONTROL PANEL & RECESSED BASIN	

	THERMOSTATIC MIXING VALVE SCHEDULE										
MARK	EQUIPMENT BEING SERVED (I.E.	AREA SERVED	DESIGN PRESSURE	DESIGN FLOW	MINIMUM FLOW RATE	INLET	OUTLET	MANUFACTURER			
MAKK	WATER HEATER, ETC)	AREA SERVED	DIFFERENTIAL	RATE GPM	GPM	TEMPERATURE	TEMPERATURE	MODEL			
TMV-1	WH-1 & WH-2	BUILDING	10 PSI	70.4 GPM	3 GPM	140°F	110°F	ACORN VALVE			
	WFI-1 & WFI-2	BUILDING	10 251	70.4 GPI1	J GPM	140 F	IIO F	MV17-4-0TG			
TMV-2	KITCHEN HAND SINKS	VITCHEN	10 001	2.1 GPM	0.25 GPM	140°F	110°F	ACORN VALVE			
11110-2	KIICHEN HAND SINKS	N HAND SINKS KITCHEN	10 PSI	2.1 GPI1	0.25 GPM	140 F		ST-70-12-MB			
TMV-3	EEV//GLI	VITCHEN	10 PSI	20	1 GPM	140°F	85°F	ACORN VALVE			
11 ¹ V-2	EEW/5FI	EEW/SH KITCHEN		20	I GPI I	140 F	05 F	ET71-2			

1. MINIMUM LOW RATE WHEN VALVE IS INSTALLED AT OR NEAR HOT WATER SOURCE WITH RECIRCULATED TEMPERED WATER AND CONTINUOUSLY OPERATING CIRCULATION PUMP. 2. WITH DIAL THERMOMETER, ADJUSTABLE SET POINT, INTEGRAL STRAINER CHECKSTOPS ON INLETS, PROVIDE SHUTOFFS/UNIONS AT ALL CONNECTIONS

PIPE HANGER SPACING TABLE								
PIPE MATERIAL	PIPE SIZES (INCHES)	HORIZONTAL PIPE MAX. HANGER DISTANCE (FT)	VERTICAL PIPE MAX. HANGER DISTANCE (FEET)					
COPPER & COPPER ALLOY TUBING	1-1/4" & SMALLER	6'-0"	10'-0"					
COPPER & COPPER ALLOY TUBING	1-1/2"	10'-0"	10'-0"					
COPPER & COPPER ALLOY PIPE	ALL	12'-0"	10'-0"					
CAST IRON PIPE	ALL	5'-0" *	15'-0"					
STEEL PIPE	ALL	12'-0"	15'-0"					
STAINLESS STEEL DRAINAGE	ALL	10'-0"	10'-0 **					
CPVC PIPE OR TUBING	1" & SMALLER	3'-0"	10'-0 **					
CPVC PIPE OR TUBING	1-1/4"	4'-0"	10'-0 **					
PVC PIPE	ALL	4'-0"	10'-0 **					
NOTES: MAXIMUM HORIZONTAL SPACING OF CAST IRON PIPE HANGERS SHALL BE INCREASED								

* MAXIMUM HORIZONTAL SPACING OF CAST IRON PIPE HANGERS SHALL BE INCREASED TO 10'-0" WHERE 10'-" LENGTHS OF PIPE ARE USED

MIDSTORY GUIDE FOR SIZES 2" AND SMALLER NOT ALL PIPE MATERIALS ON THIS TABLE WILL PERTAIN TO THIS PROJECT

Revised By:

	EXPANSION TANK SCHEDULE								
MARK MAKE & MODEL SERVICE WATER HEATER STORAGE CAPACITY (GALLONS) *REQUIRED MINIMUM ACCEPTANCE VOLUME (GALLONS)									
EXP-1	AMTROL ST-80VC	WH-1 & WH-2	350	25.65					
DESIGN	* BASED OFF 1.5% EXPANSION FACTOR: 14°F HOT WATER STORAGE TEMPERATURE, & 5.7 DESIGN PRESSURE FACTOR: 100 PSI MAXIMUM ALLOWABLE PRESSURE & 80 PSI LINE PRESSURE. (WATER HEATER VOLUME x 1.5 % x 5.7).								
NOTES:									
1. ASME	1. ASME CONSTRUCTION SHALL BE STANDARD								

3. PROVIDE AIR CHARGING FITTING

2. PROVIDE ALL NECESSARY ACCESSORIES.

Project Title:	
Hinsdale School Alterations	

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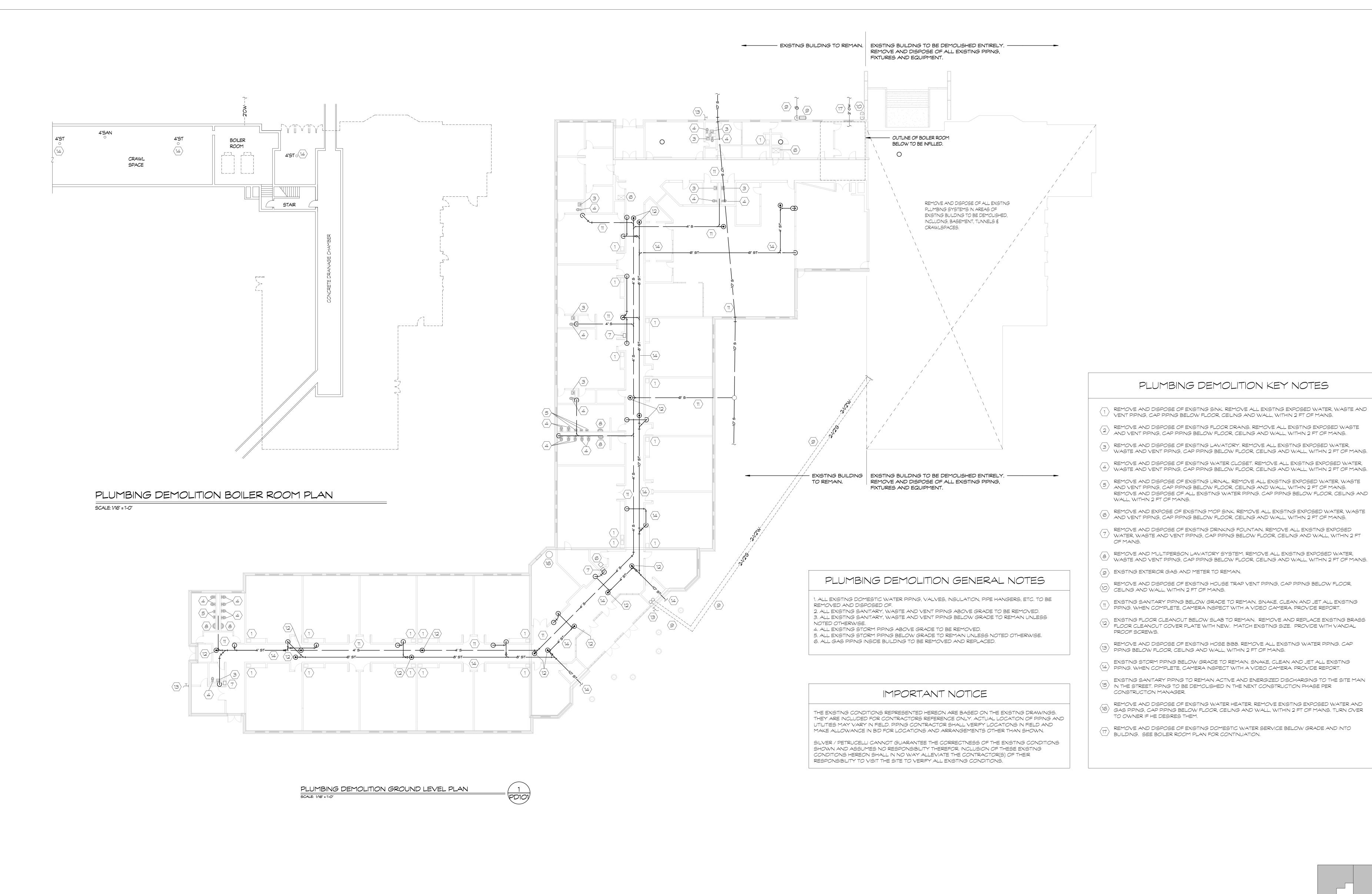


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Drawing Title:
PLUMBING SCHEDULES
State Project #: 162-0043RNV

Drawing Number: June 30, 2020 Drawn By: JES Project Number: 18.223



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PLUMBING DEMOLITION PLAN

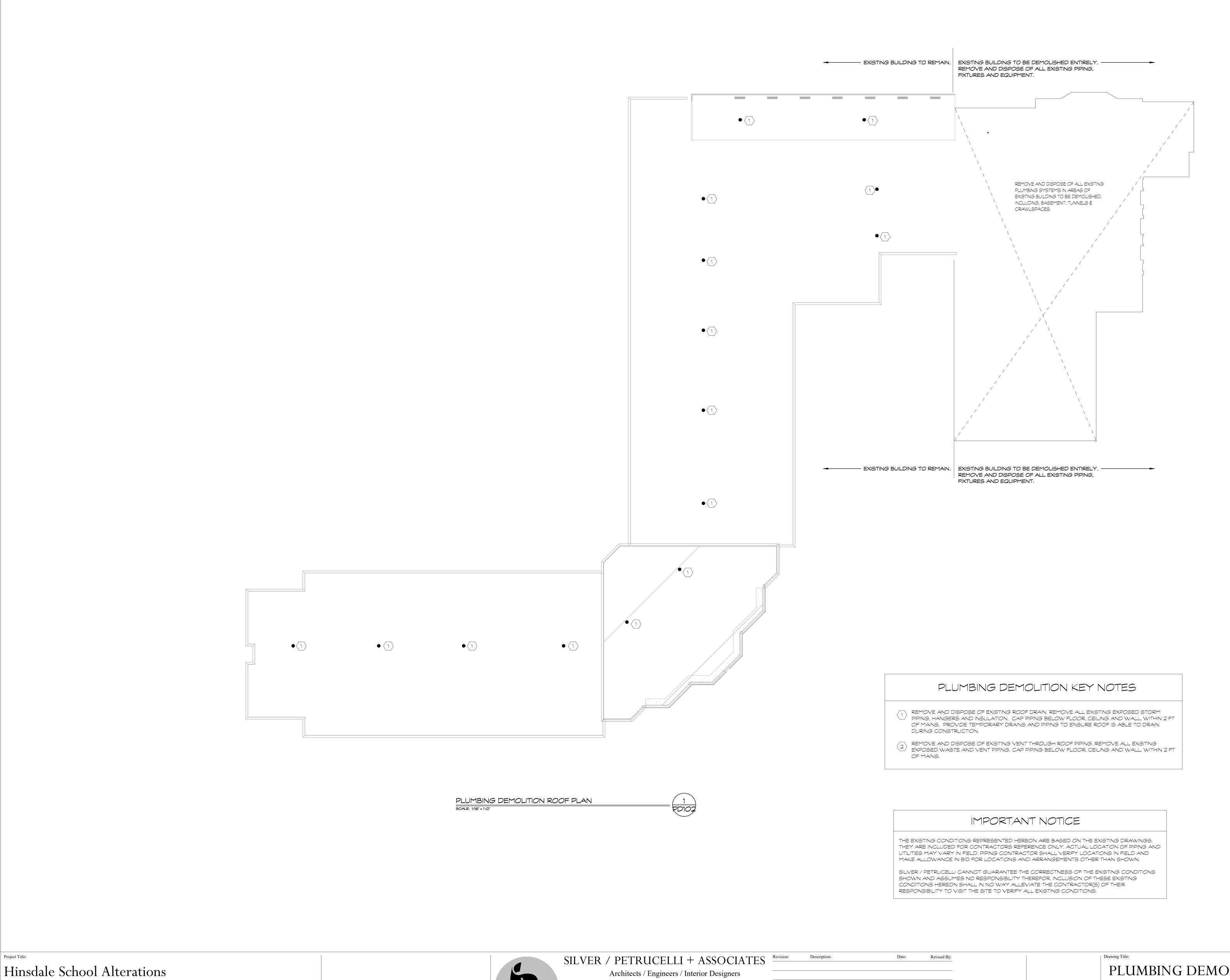
State Project #: 162-0043RNV

Drawing Number: June 30, 2020 1/16" = 1'-0" PD101 Drawn By: JES Project Number: 18.223

Hinsdale School Alterations

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Drawing Number:

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PLUMBING DEMOLITION ROOF PLAN

1/16" = 1'-0" PD102 Drawn By: JES Project Number:

18.223

June 30, 2020

State Project #: 162-0043RNV

FIRE PROTECTION GENERAL NOTES

GENERA

UTILIZE CONCEALED PENDENT SPRINKLERS AND PIPING IN AREAS WITH FINISHED CEILINGS, AND EXPOSED PIPING AND UPRIGHT SPRINKLERS IN AREAS WITHOUT CEILINGS. CONCEALED SPRINKLER HEADS LOCATED IN ACOUSTICAL TILES TO UTILIZE FLEX HOSE PIPING 6' IN LENGTH. PROVIDE AND INSTALL SPRINKLERS UNDER AND ABOVE ALL OBSTRUCTIONS IN ACCORDANCE WITH NFPA 13.

FIRE PROTECTION PLANS ARE INTENDED TO INDICATE TOTAL COVERAGE AND MAY OR MAY NOT INDICATE ALL SPRINKLER HEADS. SPRINKLER HEADS INDICATED ON DRAWINGS ARE DIAGRAMMATIC AND SHALL NOT BE NOT BE COUNTED FOR BID (IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW ENTIRE PIPING LAYOUT, PROPOSED MAINS AND DEVICES INDICATED ONLY). THE CONTRACTOR SHALL PROVIDE A COMPLETE SPRINKLER SYSTEM WITH COMPLETE SPRINKLER COVERAGE, INDICATED OR NOT. ITEMS AND SERVICES NOT SHOWN ON DRAWINGS OR SPECIFICATIONS BUT REQUIRED TO RENDER THE WORK COMPLETE, IN ACCORDANCE WITH NFPA, INSURANCE COMPANY REQUIREMENTS AND OWNERS, READY FOR OPERATION, SHALL BE PROVIDED AND INSTALLED. THE CONTRACTOR SHALL PROVIDE COMPLETE SPRINKLER COVERAGE AS REQUIRED INCLUDING BUT NOT LIMITED TO: CRAWL SPACES, CONCEALED COMBUSTIBLE SPACES, SHAFTS, AND ALL CLOSETS.

DRAWINGS ARE DIAGRAMMATIC AND INDICATE A GENERAL ARRANGEMENT OF WORK AND ARE NOT TO BE CONSIDERED SUBCONTRACTOR DOCUMENTS. IT IS THE INTENT OF THESE DOCUMENTS TO INCLUDE THE PROVISION AND INSTALLATION OF ALL NECESSARY WORK AND MATERIALS FOR COMPLETE, OPERATIONAL AND CODE COMPLIANT SYSTEMS BY THE CONTRACTOR. GENERAL DESIGN CONCEPTS INDICATED MUST BE FOLLOWED OR BETTERED. THE BID SHALL INCLUDE OFFSETS, ADDITIONAL PIPING, VALVES AND EQUIPMENT AND COMPONENTS AS REQUIRED TO MEET CONSTRUCTION CONDITIONS FOR PROPER OPERATION. DO NOT SCALE DRAWINGS. CONSULT ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SPACE CONDITIONS AND ADDITIONAL REQUIREMENTS.

WHEN A CONFLICT BETWEEN THE DRAWINGS, NOTES AND/OR SPECIFICATIONS OCCUR, THE MORE STRINGENT, AND/OR LARGER QUANTITY AND/OR MORE EXPENSIVE SHALL APPLY. THE REQUIREMENTS LISTED WITHIN NOTES OR SPECIFICATIONS SHALL BE REQUIRED, PROVIDED AND INSTALLED WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT.

THE CONTRACTOR SHALL COORDINATE SPRINKLER HEAD LOCATIONS WITH THE LATEST ARCHITECTURAL REFLECTED CEILING PLANS. ANY DISCREPANCIES SHALL BE BROUGHT BACK TO THE ARCHITECT/ ENGINEER. DO NOT SCALE DRAWINGS FOR DIMENSIONS NOT INDICATED. REFER TO ARCHITECT FOR RESOLUTION FOR ANY DIMENSIONS NOT INDICATED.

IT IS THE INTENTION OF THE SPECIFICATIONS AND DRAWINGS TO PROVIDE FOR FINISHED WORK, TESTED AND READY FOR OPERATION.

THE DESIGN OF ALL FIRE SUPPRESSION SYSTEMS WILL BE IN ACCORDANCE WITH THE LOCAL AND STATE BUILDING CODE, NFPA 13, FM GLOBAL. USE ONLY UL/FM SPRINKLERS, MATERIALS AND DEVICES, UNLESS NOTED OTHERWISE.

CONCEALED SPRINKLERS AND PIPING SHALL BE INSTALLED IN AREAS WITH FINISHED CEILINGS. AREAS WITH EXPOSED CONSTRUCTION SHALL HAVE EXPOSED PIPING AND SPRINKLERS (CUSTOM COLOR)

THE SPRINKLER CONTRACTOR IS REQUIRED TO VISIT THE SITE AT THE TIME OF BID, TO EXAMINE CONDITIONS AND BECOME FAMILIAR WITH THE JOB, NOTING DEGREE OF DIFFICULTY IN GETTING EQUIPMENT (INCLUDING LIFTS AND SCAFFOLDS) IN AND OUT OF THE BUILDING. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER IN WRITING PRIOR TO SUBMITTING A BID.

NOTIFY PROPER AUTHORITIES (INCLUDING BUT NOT LIMITED TO: THE LOCAL A.H.J., INSURANCE COMPANY, ETC.) OF ANY FIRE PROTECTION "SHUT DOWNS". SCHEDULE ALL WORK TO MINIMIZE THE LENGTH OF TIME THAT THE FIRE PROTECTION SYSTEM(S) WILL BE OUT OF SERVICE. RETURN THE SPRINKLER SYSTEM BACK IN SERVICE AT THE END OF EACH WORKING DAY. IF A FIRE WATCH IS REQUIRED BY THE LOCAL A.H.J. BUILDING MANAGER, ETC. IT SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. FIRE WATCH SCHEDULING AND PERSONNEL SHALL BE COORDINATED WITH THE LOCAL A.H.J., BUILDING MANAGER AND INSURANCE COMPANY.

ARRANGE PIPING TO FACILITATE FLUSHING. PROVIDE READILY ACCESSIBLE DRAIN AND FLUSHING CONNECTIONS AS REQUIRED BY NFPA 13. PROVIDE AND INSTALL AUXILIARY DRAINS WITH PROVISIONS FOR COMPLETE DRAINAGE. PIPE ALL DRAINS TO AN APPROVED LOCATION.

INSPECTOR'S TEST CONNECTIONS, DRAIN VALVES AND CONTROL VALVES SHALL BE READILY ACCESSIBLE AND INSTALLED NOT OVER +/-7-0" ABOVE THE FINISHED FLOOR. PROVIDE ALL VALVES WITH IDENTIFICATION SIGNS. SUPERVISORY SWITCHES SHALL BE ON ALL CONTROL VALVES. PIPE ALL DRAIN PIPING, INSPECTORS TEST CONNECTIONS, ETC. TO THE EXTERIOR. ENSURE DRAINAGE DOES NOT CAUSE DAMAGE TO BUILDING OR SITE.

INSTALL A PRESSURE GAUGE WITH A BLEEDER MAINTENANCE VALVE AT THE TOP OF ALL RISERS.

PROVIDE A HEAD GUARD ON SPRINKLERS IN AREAS SUBJECT TO MECHANICAL DAMAGE (I.E. SPRINKLERS IN: MECHANICAL ROOMS, ETC.)

REFER TO ADDITIONAL NOTES ON ARCHITECTURAL DRAWINGS.

THE CONTRACTOR SHALL COORDINATE SPRINKLER WORK WITH THE OWNER'S PHASING SCHEDULE PRIOR TO COMMENCEMENT OF ANY WORK. ALL PHASED SECTIONS OF WORK SHALL COMPLY WITH THE OWNERS SCHEDULE AND BE TESTED, INSPECTED, READY FOR OPERATION IN ACCORDANCE WITH NFPA, OWNERS INSURANCE COMPANY AND A.H.J. REQUIREMENTS.

P.E.) DRAWINGS INDICATING ALL PIPING AND SPRINKLER HEADS. CONTRACTOR SHALL SECURE AND PAY COSTS OF PERMITS, CERTIFICATES, LICENSES, INSPECTIONS AND APPROVALS.

THE CONTRACTOR SHALL PROVIDE COMPLETE SIGNED AND SEALED (BY LICENSED

INSTALL SPRINKLERS BELOW DUCTS, AND/OR COMBINATIONS OF DUCTS/EQUIPMENT IN ACCORDANCE WITH THE OBSTRUCTION REQUIREMENTS OF NFPA 13.

PROVIDE SPRINKLER PROTECTION IN ORDER TO AVOID ALL OBSTRUCTIONS IN ACCORDANCE WITH NFPA 13, INCLUDING: LIGHTING, CEILING FIXTURES, STRUCTURAL MEMBERS, ETC. WITHIN ALL HAZARD OCCUPANCIES.

ALL DRAIN PIPING AND ANY PIPING SUBJECT TO ALTERNATE WETTING AND DRYING

SHALL BE GALVANIZED.

ALL SYSTEM COMPONENTS SHALL BE CAPABLE OF WITHSTANDING A MINIMUM WORKING PRESSURE OF 175 PSI.

THE CONTRACTOR SHALL SEAL AROUND ALL NEW PENETRATIONS THROUGHOUT THE BUILDING WITH SEALANT OF FIRE AND/OR SMOKE RETARDANT TYPE EQUAL IN FIRE RATING TO THE STRUCTURE BEING PENETRATED. SEALANT SHALL BE A UL LISTED ASSEMBLY.

WORK OF THIS SECTION SHALL BE GOVERNED BY THE CONTRACT DOCUMENTS.
PROVIDE MATERIALS, LABOR, EQUIPMENT AND SERVICES NECESSARY TO FURNISH,
DELIVER AND INSTALL ALL WORK AS SPECIFIED AND AS REQUIRED BY JOB
CONDITIONS. WHERE A CONFLICT EXISTS BETWEEN THESE NOTES, THE DRAWINGS
AND THE SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

GENERAL CONDITIONS AND WITH THE PROVISIONS OF ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND LAWS.

WORK SHALL INCLUDE ALL INCIDENTALS, LABOR, MATERIAL, EQUIPMENT,

PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT

APPLIANCES, SERVICES, HOISTING, SCAFFOLDING, SUPPORTS, TOOLS, CONSUMABLE ITEMS, FEES, LICENSES, AND ADMINISTRATIVE TASKS REQUIRED TO COMPLETE AND MAKE OPERABLE WORK SHOWN ON THE DRAWINGS, SPECIFIED HEREIN AND AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM..

STORE MATERIALS INSIDE AND PROTECTED FROM DEBRIS, WEATHER AND MOISTURE.

THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL POWER AND CONTROL WIRING REQUIRED FOR EQUIPMENT OPERATION NOT SPECIFICALLY PROVIDED BY OTHERS BUT REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. THIS CONTRACTOR SHALL PROVIDE MOTOR STARTERS FOR INSTALLATION BY OTHERS. COORDINATE

ALTERATION WORK AND DEMOLITION

REQUIREMENTS.

EXISTING PIPING AND SPRINKLERS SHOWN DO NOT NECESSARILY REFLECT EXACT FIELD CONDITIONS. FIELD VERIFY EXTENT AND LOCATION OF WORK TO BE REMOVED.

ALL EQUIPMENT, PIPING, ETC. TO BE REMOVED, SHALL BE DISPOSED OF, TURNED OVER TO THE OWNER, OR SALVAGED AS DIRECTED BY THE OWNER. EQUIPMENT, PIPING, DEVICES, ETC. SHALL NOT BE REMOVED FROM THE PREMISES WITHOUT THE OWNER'S APPROVAL.

NO EXISTING PIPE MAY BE CUT OR DAMAGED WHEN ENCOUNTERED ALONG THE ROUTE DESIGNED FOR NEW SERVICE. ANY EXISTING PIPING SEVERED OR DAMAGED SHALL BE REPLACED INCLUDING DAMAGED AREAS. ANY UNUSED OUTLETS SHALL BE PROPERLY CAPPED.

UPON COMPLETION OF REMOVALS AND MODIFICATIONS, ALL PIPING TO REMAIN SHALL BE PROPERLY PLUGGED, VALVED, CAPPED AND/OR BY PASSED SUCH THAT UPON COMPLETION OF WORK ALL SYSTEMS TO REMAIN, REMAIN OPERATIONAL.

REMOVE & REPLACE ANY EXISTING SPRINKLER PIPING WHICH DOES NOT PASS THE

REQUIRED HYDROSTATIC PRESSURE TESTS CONDUCT VISUAL INTERNAL INSPECTIONS ON AT LEAST 5% OF ANY EXISTING PIPING TO REMAIN.

NO DEAD ENDS SHALL BE LEFT ON ANY PIPING SYSTEMS UPON COMPLETION OF WORK.

EXISTING EXPOSED PIPING SYSTEMS NOT TO BE REUSED, AND NOT SPECIFICALLY NOTED FOR REMOVAL SHALL BE COMPLETELY REMOVED.

ALL SYSTEMS SHALL BE LEFT IN WORKING ORDER TO THE SATISFACTION OF THE

ALL EXISTING EXPOSED, UNNECESSARY PIPING RELATED TO NEW WORK SHALL BE COMPLETELY REMOVED.

RE-ROUTE OR REMOVE ALL EXISTING PIPING AND SYSTEMS WHERE NECESSARY TO AVOID NEW EQUIPMENT, STRUCTURAL, OR MASONRY WORK AS REQUIRED BY THE PROPOSED ALTERATIONS.

COORDINATION DRAWINGS

DEVELOP AND SUBMIT COORDINATION DRAWINGS AS OUTLINED.

OWNER UPON COMPLETION OF ALL NEW WORK.

SHEET METAL, PLUMBING AND FIRE PROTECTION SHOP DRAWINGS THAT HAVE BEEN COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW. DRAWINGS MUST BE RETURNED FROM ENGINEER EITHER "REVIEWED" OR "FURNISH AS CORRECTED" PRIOR TO BEING USED AS BASIS FOR COORDINATION DRAWINGS.

AFTER SHEET METAL AND PIPING DRAWINGS HAVE BEEN REVISED PER ENGINEERS COMMENTS, REPRODUCIBLE COPIES SHALL BE SENT TO THE TRADES IN THE FOLLOWING SEQUENCE FOR THE INCLUSION OF THEIR WORK:

-MECHANICAL SHEET METAL -PLUMBING PIPING -MECHANICAL PIPING -SPRINKLER PIPING

-ELECTRICAL WORK

AFTER ALL TRADES HAVE INCLUDED THEIR WORK ON THE COORDINATION DRAWING AND NOTED CONFLICTS, ALL TRADES SHALL MEET TO RESOLVE CONFLICTS AND AGREE TO ACCEPTABLE SOLUTIONS. EACH TRADE SHALL SIGN COORDINATION DRAWINGS. ITEMS NOT SHOWN ON COORDINATION DRAWING IS RESPONSIBILITY OF OMITTING CONTRACTOR AND CONTRACTOR IS SUBJECT TO ADDITIONAL COSTS INCURRED BY OTHER TRADES.

THE ARCHITECT AND ENGINEER ARE NOT PART OF THE COORDINATION DRAWING PROCESS. THE ENGINEER WILL PROVIDE ASSISTANCE FOR NOTED CONFLICTS ONLY. COORDINATION DRAWINGS ARE NOT TO BE CONSIDERED PIPING OR DUCT SHOP DRAWINGS. THE CONTRACTOR IS REQUIRED TO SUBMIT INDIVIDUAL PIPING AND DUCTWORK SHOP DRAWINGS FOR REVIEW BY THE ENGINEER. PIPING AND DUCTWORK SHOP DRAWINGS SHALL FOLLOW THE DESIGN INTENT OF THE CONTRACT DOCUMENTS.

SUBMIT FINAL SIGNED COORDINATION DRAWING TO ENGINEER FOR REVIEW.
ENGINEER WILL REVIEW COORDINATION DRAWINGS FOR GENERAL ARRANGEMENT
AND FOR NOTED CONFLICTS ONLY. SPECIFIC INSTALLATION REQUIREMENTS WILL BE
REVIEWED ONLY IN INDIVIDUAL TRADE SHOP DRAWINGS.

WHERE CONFLICTS OCCUR BETWEEN DRAWINGS AND SPECIFICATIONS, OR WITHIN EITHER DOCUMENT, THE CONTRACTOR SHALL ASK FOR AND OBTAIN A WRITTEN CLARIFICATION FROM THE ENGINEER PRIOR TO SUBMITTING HIS BID. OTHERWISE, THE ITEMS OR ARRANGEMENTS OF SUPERIOR QUALITY, GREATER QUANTITY OR HIGHER COST SHALL PREVAIL AND BE INCLUDED IN THE CONTRACT PRICE.

ANY WORK FABRICATED OR INSTALLED PRIOR TO SIGN OFF BY ALL TRADES WHICH IS DEEMED TO BE IN CONFLICT WITH COORDINATION DRAWINGS SHALL BE REMOVED AND RE-INSTALLED IN CONFORMANCE WITH COORDINATION DRAWINGS.

EACH CONTRACTOR (MENTIONED ABOVE) IS RESPONSIBLE FOR THE COORDINATION OF HIS SUB-CONTRACTORS.

THE OVERALL COORDINATION OF THE COORDINATION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER IS NOT RESPONSIBLE FOR THE COORDINATION PROCESS. THE ENGINEER WILL RESPOND TO QUESTIONS THAT ARISE FROM THE COORDINATION PROCESS. DRAWINGS SUBMITTED WILL BE REVIEWED FOR CLEARLY IDENTIFIED CONFLICTS ONLY. SOLUTIONS TO CONFLICTS WILL NOT BEAR ADDITIONAL COST.

AS BUILT DRAWINGS

PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS REFLECTING AS INSTALLED CONDITIONS. AS-BUILT DRAWINGS SHALL INDICATE ALL INSTALLED CONDITIONS OF SYSTEMS WITHIN THIS DISCIPLINE. DRAWINGS SHALL BE OF SIMILAR SCALE AS THE CONSTRUCTION DOCUMENTS AND INCLUDE DETAILS AS NECESSARY TO CLEARLY REFLECT THE INSTALLED CONDITION. DRAWINGS SHALL BE BOUND IN A COMPLETE AND CONSECUTIVE SET. SUPPLEMENTAL SKETCHES AND LOOSE PAPERWORK WILL NOT BE ACCEPTABLE AND WILL BE RETURNED FOR REVISION. THE CONTRACTOR SHALL COMPLY WITH THE ENGINEERS COMMENTS TO PRODUCE A CLEAR AND CONCISE SET OF DRAWINGS. DRAWINGS SHALL BE SUBMITTED IN BOTH HARD COPY AND ELECTRONIC (AUTO-CAD AND/VERSION AS REQUIRED BY THE OWNER) VERSION. NUMBER OF COPIES OF EACH AS REQUESTED BY THE OWNER.

INCLUDE ALL CHANGES OF ALL DEVIATIONS BETWEEN THE WORK INDICATED AND THE WORK INSTALLED INCLUDING APPROVED CONTRACT MODIFICATIONS AND

INDICATE VALVES AND CONTROL DEVICES LOCATED AND NUMBERED COORDINATED WITH SUBMITTED VALVE CHARTS.
SUBMIT A COMPLETE MAINTENANCE MANUAL OF ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT.

PROVIDE AND INSTALL ACCESS DOORS FOR EACH VALVE, DRAIN, OR FIRE PROTECTION DEVICE REQUIRING ACCESS. ACCESS DOORS SHALL BE RIGID CONSTRUCTION WITH TWO HINGES AND A LATCH. IN PLENUM CEILINGS, PROVIDE FELT BETWEEN THE DOOR AND FRAME TO MAKE AN AIR TIGHT SEAL. ACCESS DOORS SHALL BE RATED TO THE SAME OR GREATER RATING OF THE PARTITION IN WHICH THEY ARE INSTALLED. ACCESS DOORS SHALL BE FLUSH MOUNTED, PRIME COATED WITH RUST INHIBITIVE PAINT, CONCEALED FRAME, FLUSH SCREW DRIVER OPERATED LOCKS WITH METAL CAMS AND ANCHORS AS REQUIRED.

ACCESS DOOR SIZES SHALL BE:

12" X 12" AT EASILY ACCESSIBLE ITEMS

16" X 16" WHERE PARTIAL BODY ACCESS IS REQUIRED

24" X 24" WHERE FULL BODY ACCESS IS REQUIRED

HANGERS AND SUPPORT SPRINKLER PIPING IN A SUBSTANTIAL MANNER FROM BUILDING STRUCTURE, AND INDEPENDENT OF THE CEILING SYSTEM PROVIDE FARTHOLIAKE/SEISM

AND INDEPENDENT OF THE CEILING SYSTEM. PROVIDE EARTHQUAKE/SEISMIC BRACING
IN ACCORDANCE WITH NFPA 13 AND THE LOCAL CODE. DO NOT USE SPRINKLER PIPING OR HANGERS TO SUPPORT NON-SYSTEM COMPONENTS.

SEISMIC RESTRAINT: PROVIDE SEISMIC RESTRAINT AND EXPANSION OF ALL FIRE PROTECTION EQUIPMENT AND SYSTEMS IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS, OWNERS INSURANCE COMPANY, STATE, FEDERAL AND LOCAL BUILDING CODE REQUIREMENTS. SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT INDICATING ALL NECESSARY COMPONENT CUTS, PLAN LOCATIONS AND CALCULATIONS FOR A COMPLETE SYSTEM.

PROVIDE ALL NECESSARY STRUCTURAL MEMBERS INCLUDING ADDITIONAL STRUCTURAL SUPPORT TO SUPPORT PIPING AND EQUIPMENT. HANGERS AND SUPPORTS SHALL BE OF AN APPROVED DESIGN NECESSARY TO SUPPORT PIPING, EQUIPMENT AND TO KEEP PIPING IN PROPER ALIGNMENT AND PREVENT TRANSMISSION OF INJURIOUS THRUSTS AND VIBRATIONS. IN ALL CASES WHERE HANGERS, BRACKETS, ETC., ARE SUPPORTED FROM CONCRETE CONSTRUCTION, DO NOT WEAKEN CONCRETE OR PENETRATE WATERPROOFING. ALL HANGERS AND SUPPORTS SHALL BE CAPABLE OF SCREW ADJUSTMENT AFTER PIPING IS ERECTED. HANGERS SUPPORTING PIPING EXPANDING INTO LOOPS, BENDS AND OFFSETS SHALL BE SECURED TO THE BUILDING STRUCTURE IN SUCH A MANNER THAT HORIZONTAL ADJUSTMENT PERPENDICULAR TO THE RUN OF PIPING SUPPORTED MAY BE MADE TO ACCOMMODATE DISPLACEMENT DUE TO EXPANSION. ALL SUCH HANGERS SHALL BE FINALLY ADJUSTED BOTH IN THE VERTICAL AND HORIZONTAL DIRECTION, AS REQUIRED.

PROVIDE ADDITIONAL SUPPORT FOR PIPING AND EQUIPMENT WHEN DECK IS NOT CAPABLE OF SUPPORT.

BEAM CLAMPS - HANGERS SUPPORTED FROM STEEL SHALL BE CENTER LOADING BEAM CLAMPS FOR HANGERS SUPPORTING PIPING 2 INCHES. FOR PIPING 2-1/2 INCHES AND LARGER, I BEAM CLAMPS SHALL BE FORGED STEEL. "C" CLAMPS ARE PERMITTED ONLY WHEN PROVIDED WITH RESTRAINING STRAP. BAR JOIST HANGERS SHOULD BE UTILIZED WHEN HANGING FROM BAR JOIST CONSTRUCTION.

ALL HANGERS AND SUPPORTS SHALL BE HOT DIPPED GALVANIZED. ALL THREADED ROD AND HARDWARE SHALL BE HOT DIPPED GALVANIZED.

PROVIDE AND INSTALL EXPANSION COMPENSATION FOR ALL PIPING. SUBMIT PLANS, CALCULATIONS AND EQUIPMENT DATA.

FIRE PROTECTION DESIGN CRITERIA

FIRE PROTECTION CONTRACTOR SHALL OBTAIN RECENT AREA FLOW TEST RESULTS (WITHIN ONE YEAR OF START OF CONSTRUCTION) OR SHALL ARRANGE WITH THE WATER UTILITY FOR A NEW WATER FLOW TEST

SPRINKLER SYSTEMS SHALL BE HYDRAULICALLY CALCULATED BASED ON THE FOLLOWING CRITERIA. INCLUDE ANY/ALL FIRE MARSHAL, FM GLOBAL AND OWNER REQUIREMENTS:

CONTRACTOR RESPONSIBLE FOR DOCUMENTING SIZE AND LENGTH OF EXISTING FIRE PROTECTION WATER SUPPLY INCLUDING VALVING, ETC. AS NECESSARY IN ORDER TO PERFORM HYDRAULIC CALCULATIONS

THE FIRE PROTECTION WATER SERVICE SHALL BE CONNECTED TO AN EXISTING SPRINKLER FIRE MAIN. THE FIRE PROTECTION CONTRACTOR SHALL CONDUCT A CURRENT FLOW TEST FOR USE IN THE HYDRAULIC CALCULATIONS AND DOCUMENT

WHERE DISTRIBUTION PIPING CAN BE RUN ON WARM SIDE OF BUILDING INSULATION, AND SPACE TO BE PROTECTED IS NOT EXPOSED TO FREEZING:

FM GLOBAL DESIGN CRITERIA

SEMINAR ROOMS, OFFICES, STUDIOS, AND COMMON AREAS: MINIMUM DENSITY OF 0.10 GPM/SQ.FT. OVER THE MOST REMOTE 1500 SQ.FT. PLUS 250 GPM FOR HOSE DEMAND. MAXIMUM COVERAGE PER SPRINKLER HEAD IS 196 SQ.FT.

MECHANICAL EQUIPMENT ROUMS:
TELEPHONE ROOMS, ETC. MINIMUM DENSITY OF 0.15 GPM/SQ.FT OVER THE MOST
REMOTE 2500 SQ.FT. PLUS 250 GPM FOR HOSE DEMAND. MAXIMUM COVERAGE PER
SPRINKLER HEAD IS 130 SQ.FT.

ORDINARY HAZARD (GROUP II) AREAS:
STORAGE ROOMS, LIBRARY STACK AREAS, ETC. MINIMUM DENSITY OF 0.20
GPM/SQ.FT. OVER THE MOST REMOTE 2000 SQ.FT. PLUS 250 GPM FOR HOSE
DEMAND. MAXIMUM COVERAGE PER SPRINKLER HEAD IS 130 SQ.FT. SPRINKLERS
SHALL HAVE A "K" FACTOR OF 8.0

STANDARD DESIGN CRITERIA

LIGHT HAZARD AREAS:

OFFICES, HALLWAYS, LOBBYS, ETC. MINIMUM DENSITY OF 0.10 GPM/SQ.FT. OVER THE MOST REMOTE 1500 SQ.FT. PLUS 100 GPM FOR HOSE DEMAND. MAXIMUM COVERAGE PER SPRINKLER HEAD IS

ORDINARY HAZARD (GROUP I) AREAS: MECHANICAL ROOMS, ELECTRICAL ROOMS, ETC.

MINIMUM DENSITY OF 0.15 GPM/SQ.FT OVER THE MOST REMOTE 1500 SQ.FT.
PLUS 250 GPM FOR HOSE DEMAND. MAXIMUM COVERAGE PER SPRINKLER HEAD IS

ORDINARY HAZARD (GROUP II) AREAS:

STORAGE ROOMS

MINIMUM DENSITY OF 0.20 GPM/SQ.FT. OVER THE MOST REMOTE 1500 SQ.FT.

PLUS 250 GPM FOR HOSE DEMAND. MAXIMUM COVERAGE PER SPRINKLER HEAD IS

WHERE DISTRIBUTION PIPING IS RUN ON WARM SIDE OF BUILDING INSULATION, BUT SPACE TO BE PROTECTED IS EXPOSED TO FREEZING:

PROVIDE DRY SPRINKLER HEADS TO PROTECT SPACE EXPOSED TO FREEZING, EXTENDED FROM WET PIPE SYSTEMS.

WHERE DISTRIBUTION PIPING AND SPACE TO BE PROTECTED ARE EXPOSED TO REEZING:

PROVIDE DRY PIPE SPRINKLER SYSTEM; ALL PENDENT AND SIDEWALL HEADS SHALL

PROTECTION OF EGRESS CORRIDORS WITHIN WORK ZONES

FIRE PROTECTION CONTRACTOR SHALL MAINTAIN SUPERVISED AUTOMATIC
SPRINKLER PROTECTION OF ALL EGRESS CORRIDORS WITHIN WORK ZONES AT ALL
TIMES

	FIRE PROTECTION SYMBOL LEGEND		
SYMBOL	DESCRIPTION		
•	BALL VALVE		
N	CHECK VALVE		
×	GATE VALVE		
	PRESSURE GAUGE		
MVM	REDUCED PRESSURE BACKFLOW PREVENTER		
×	HYDRANT		
□	ALARM BELL		
	FIRE DEPARTMENT CONNECTION (FDC)		
本へ本	REDUCED PRESSURE DETECTOR ASSEMBLY		
本	OSY VALVE		
*	POINT OF NEW CONNECTION		
•	POINT OF DISCONNECTION		
÷	TEST AND DRAIN VALVE		
FS	FLOW SWITCH		
PS	PRESSURE SWITCH		
TS	TAMPER SWITCH		
	PIPE DOWN		
	PIPE UP		
	CAPPED PIPE		
$\times \times \times \times$	PIPE OR EQUIPMENT TO BE DEMOLISHED		
	SPRINKLER SYMBOL LEGEND		
EXISTING NEW	DESCRIPTION		
0 0	UPRIGHT		
	PENDENT		

		PIPE UP		
		CAPPED PIPE		
$\times \times \times \times$		PIPE OR EQUIPMENT TO BE DEMOLISHED		
		SPRINKLER SYMBOL LEGEND		
EXISTI	NG NEW	DESCRIPTION		
0	0	UPRIGHT		
	•	PENDENT		
(<u>©</u>)	٠	PENDENT - SEMI RECESSED		
®	0	PENDENT - RECESSED		
0	0	PENDENT - CONCEALED		
₩	•	DRY PENDENT		
(Q)	©	DRY PENDENT - SEMI RECESSED		
©	•	DRY PENDENT - RECESSED		
©	•	DRY PENDENT - CONCEALED		
W	Τ	SIDEWALL		
-₩-	-▼-	SIDEWALL - RECESSED		
$\overline{\mathbb{Z}}$	▼	DRY SIDEWALL		
-₩-	.₹	DRY SIDEWALL - RECESSED		

NOTE: SOME SYMBOLS AND ABBREVIATIONS SHOWN MAN NOT PERTAIN TO THIS PROJEC

Project Title:
Hinsdale Elementary School



SILVER / PETRUCELLI + ASSOCIATES

Architects / Engineers / Interior Designers

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ision:	Description:	Date:	Revised By:

FIRE PROTECTION GENERAL NOTES

Date:

JUNE 30, 2020

Scale:

1" = 25'-0"

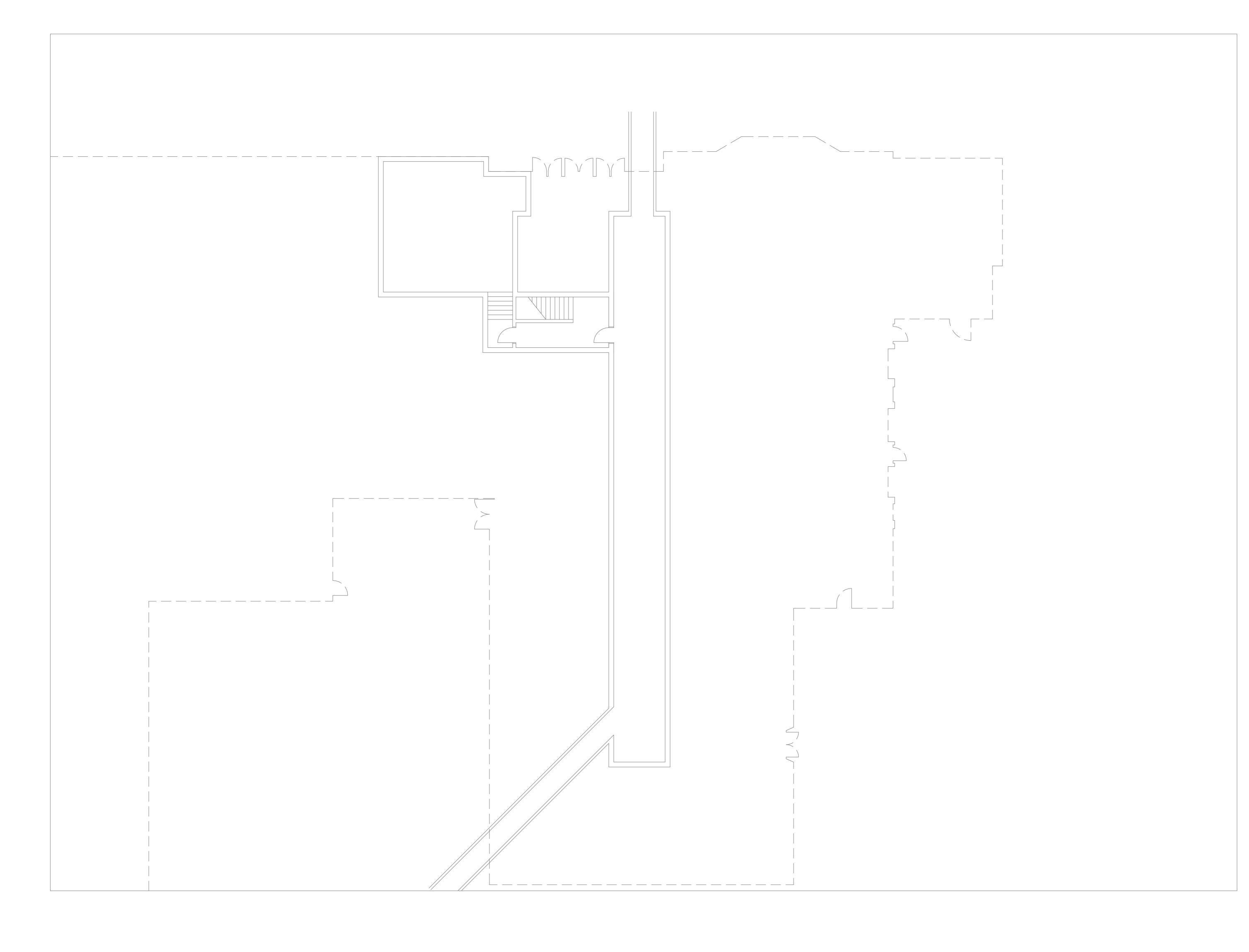
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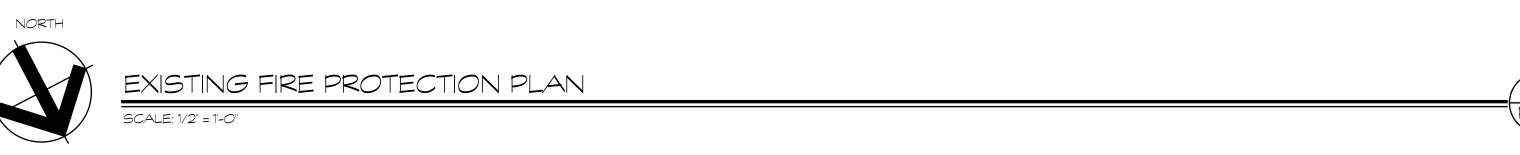
WRJ

Project Number:

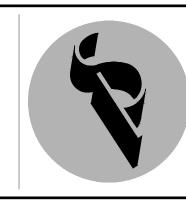
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15 Hinsdale Ave. Winsted, Connecticut 06098





Hinsdale Elementary School	
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on:	Description:	Date:	Revised By:

FIRE PROTECTION EXISTING BASEMENT PLAN

Date:

JUNE 30, 2020

Scale:

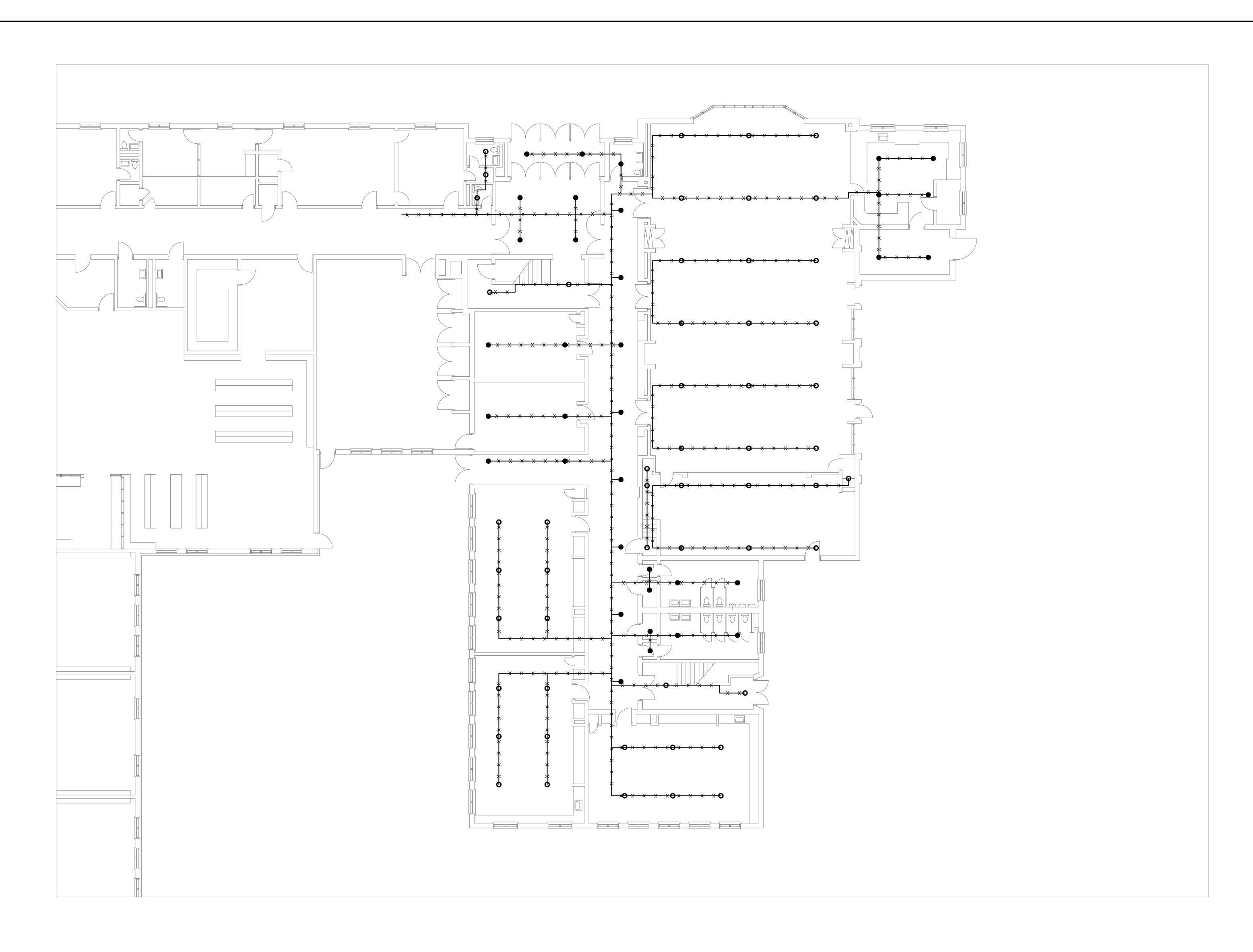
1" = 25'-0"

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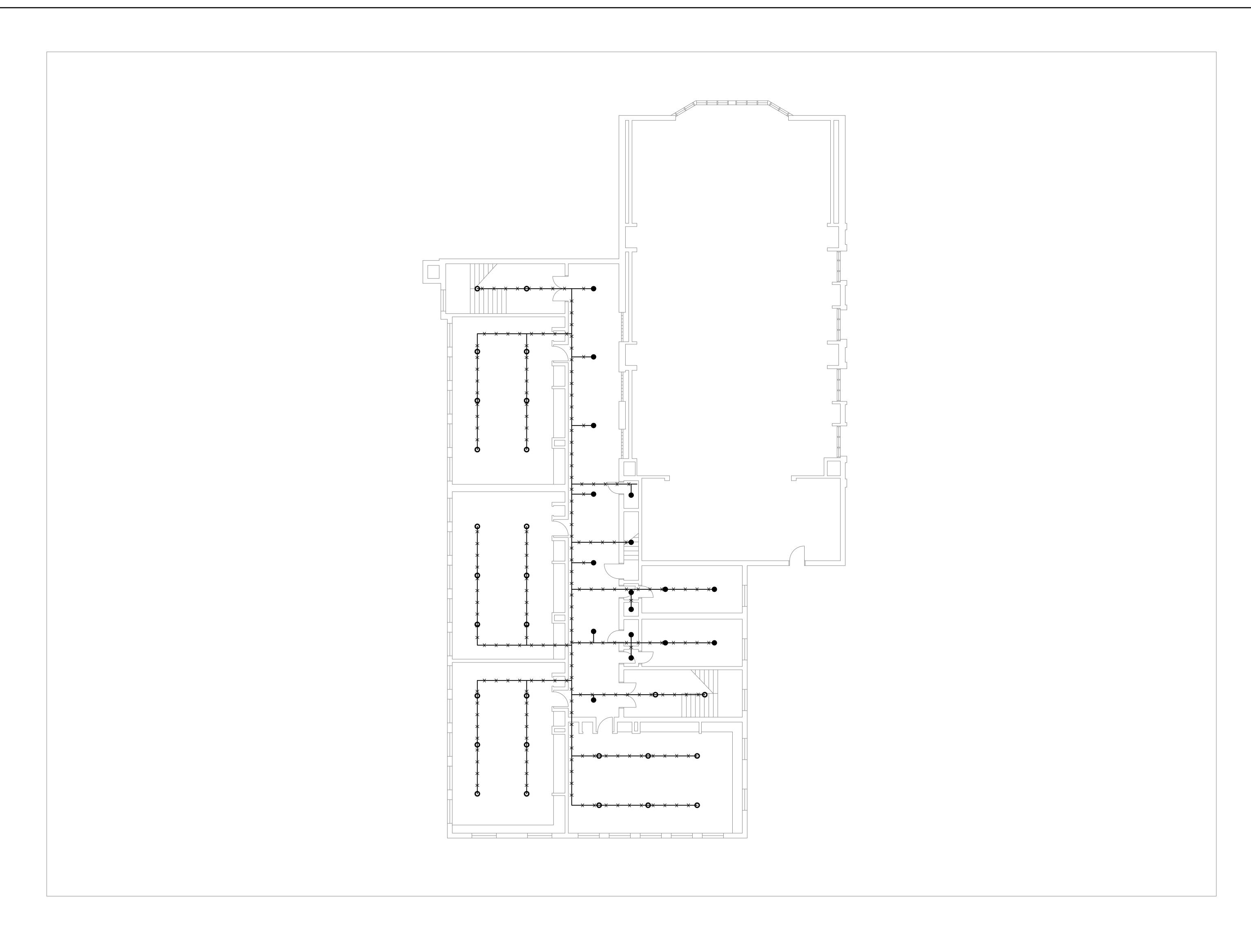
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rision:	Description:	Date:	Revised By:

FIRE PROTECTION EXISTING FIRST FLOOR PLAN

Date:	Drawing Number:
JUNE 30, 2020	
Scale:	
1" = 25'-0"	$ED \cap 11$
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WRJ	
Project Number:	
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sion: Description: Date: Revised By:

FIRE PROTECTION EXISTING SECOND FLOOR PLAN

Date:

JUNE 30, 2020

Scale:

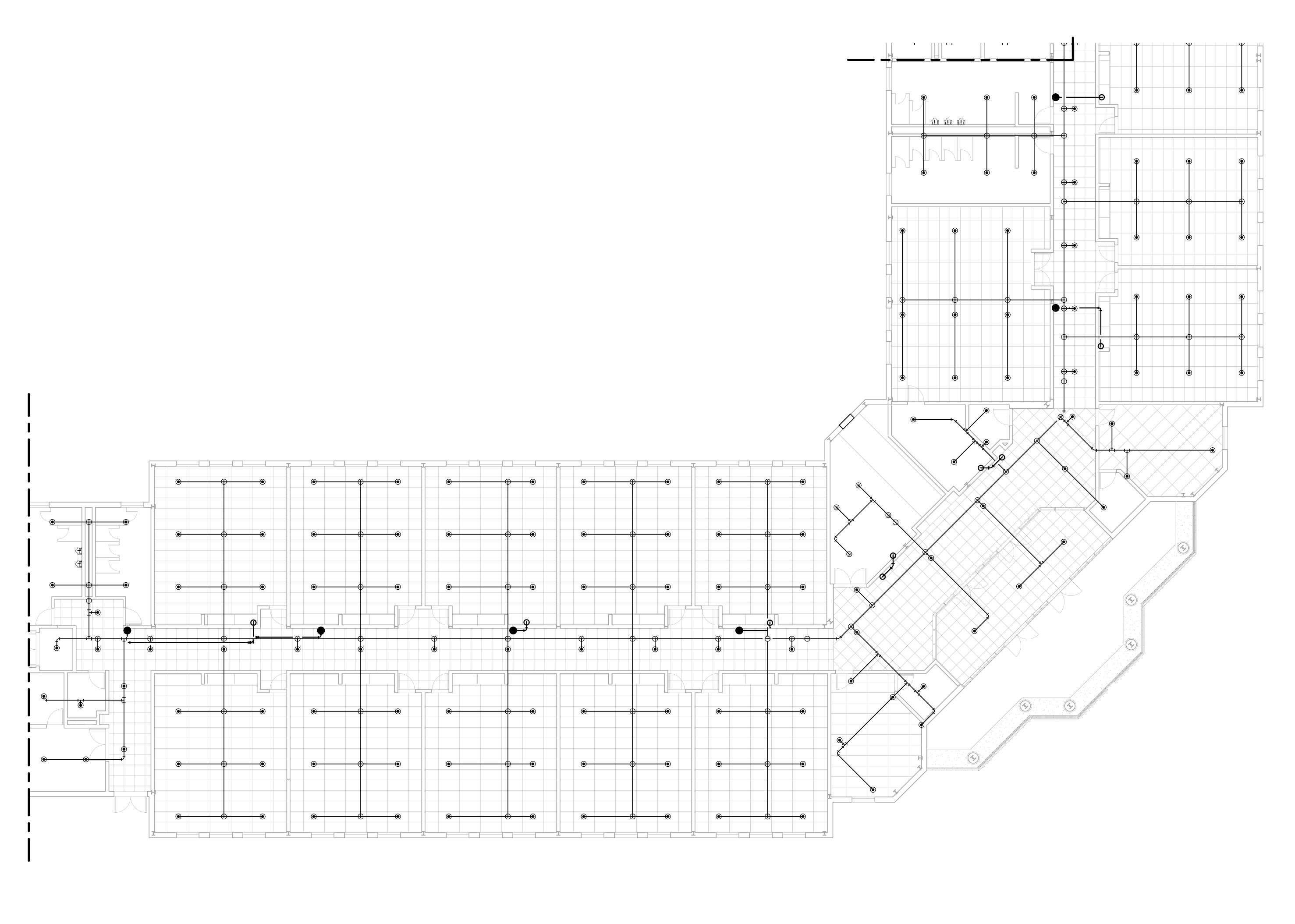
1" = 25'-0"

Drawn By:

WRJ

Project Number:

18.223



Existing - Fire Protection Reflected Ceiling Plan - Area A

SCALE: 1/8' = 1-0'



Hinsdale School Alterations 15 Hinsdale Ave.

Winsted, CT 06098

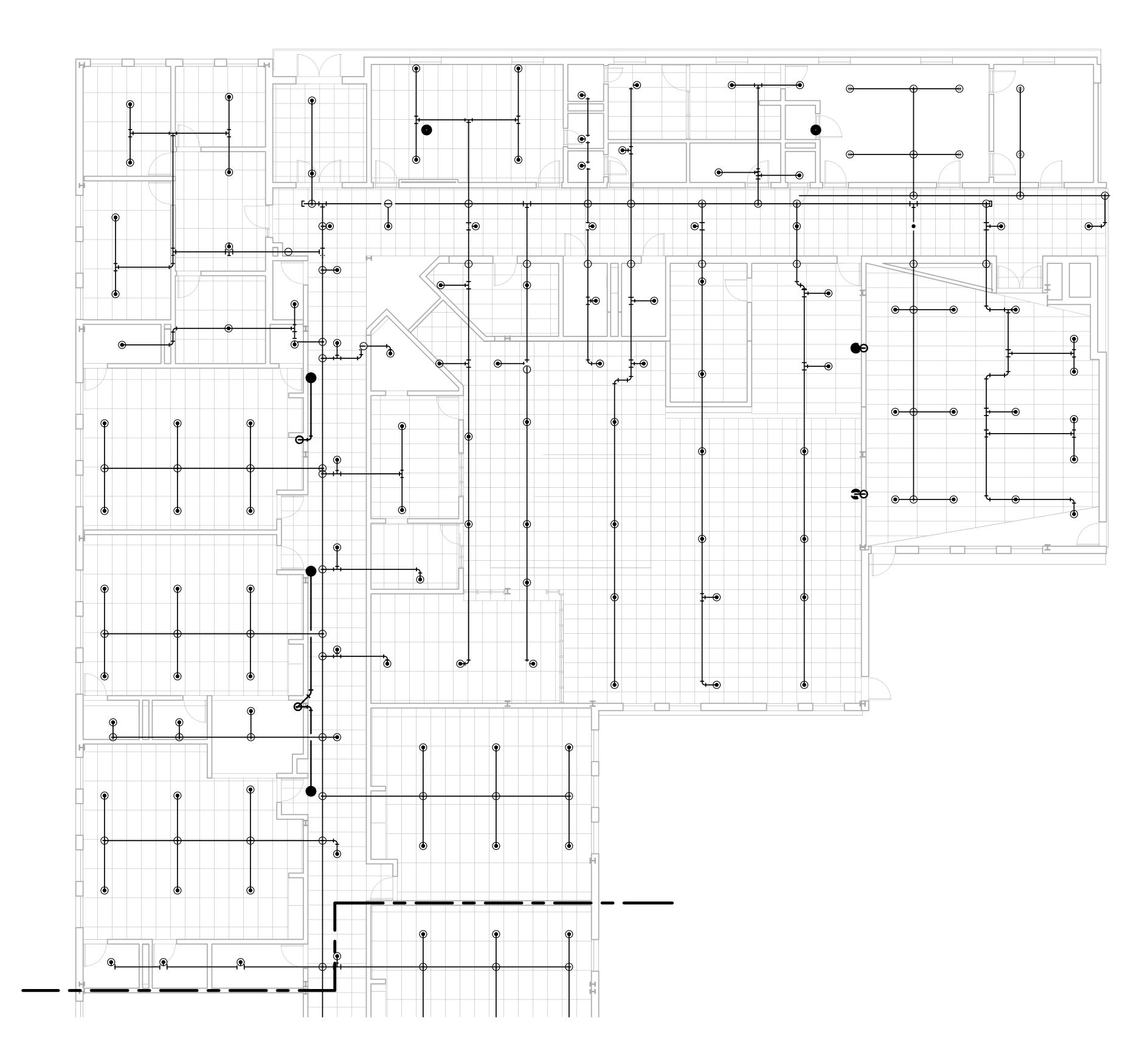


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Existing Fire Protection - Area "A" State Project #: 162-0043RNV

Date:	Drawing Number:
June 30, 2020	
Scale:	
1/8" = 1'-0"	Γ D100
Drawn By:	- $FPT()()$
WRJ	
Project Number:	
18.223	



Existing - Fire Protection Reflected Ceiling Plan - Area B

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

The protection Reflected Ceiling Plan - Area B

FP1C

Hinsdale School Alterations

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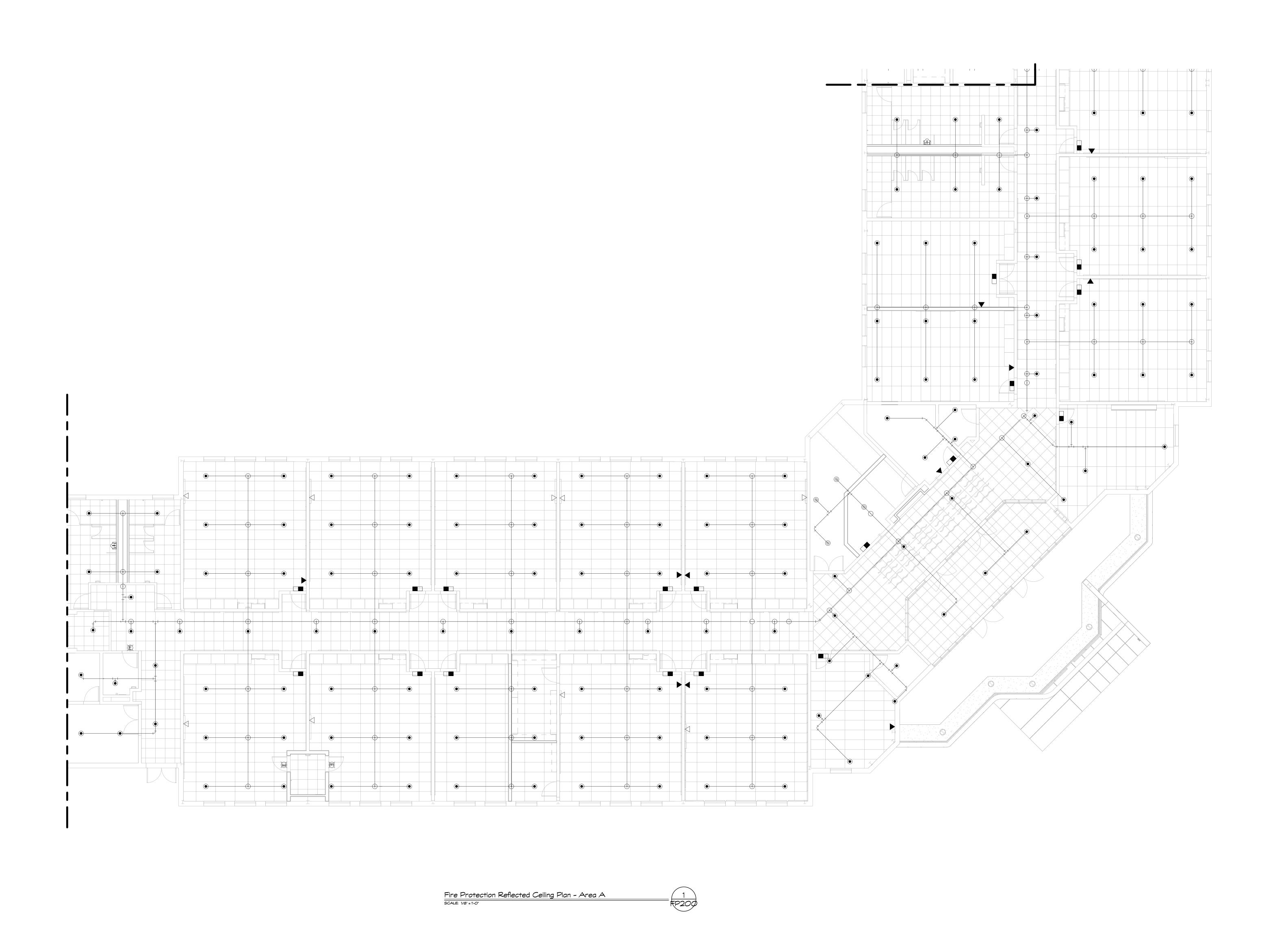
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Existing Fire Protection - Area "B" $\frac{1}{s_0}$

State Project #: 162-0043RNV



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15 Hinsdale Ave.



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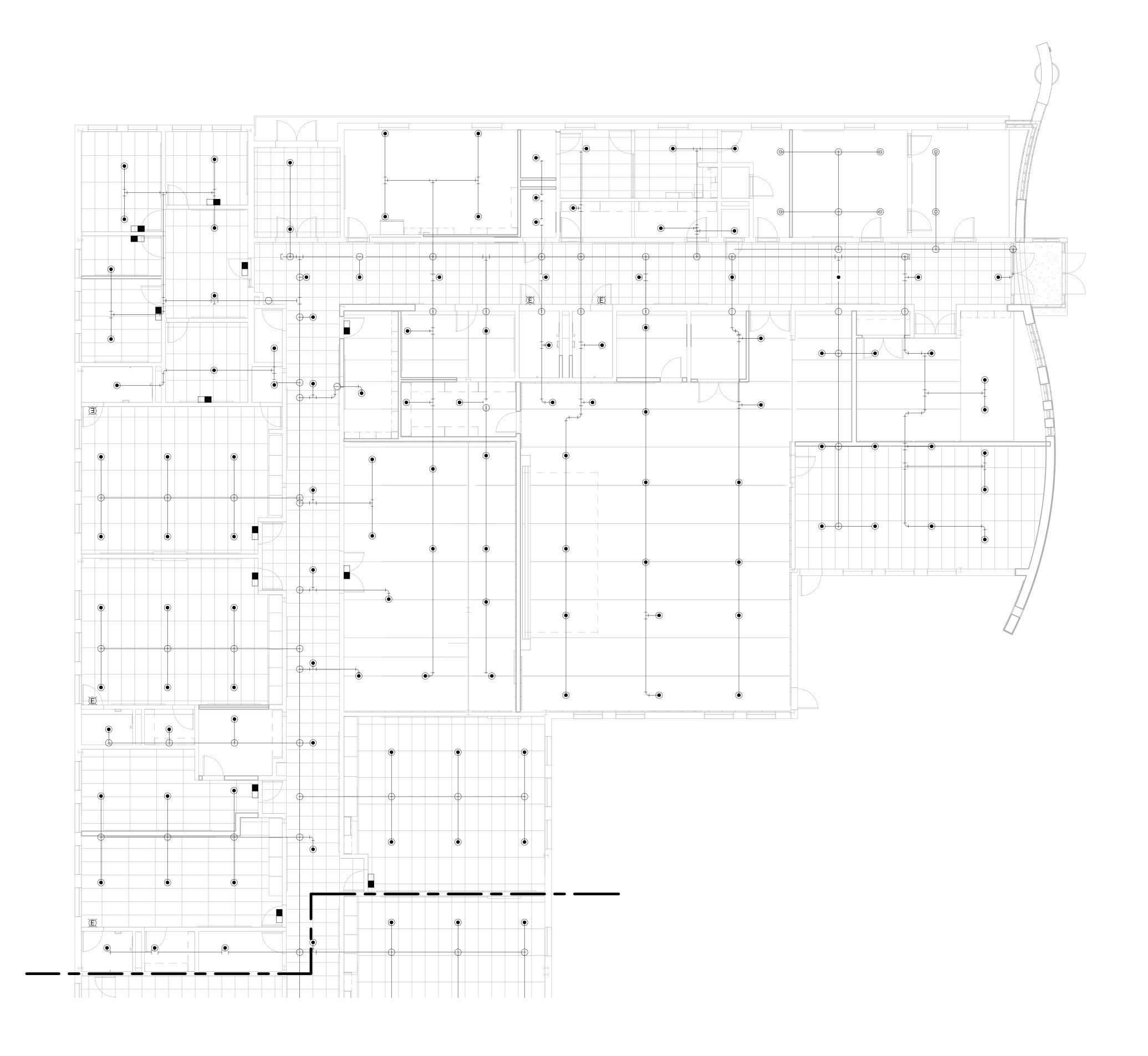
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Fire Protection Plan - Area "A"

State Project #: 162-0043RNV

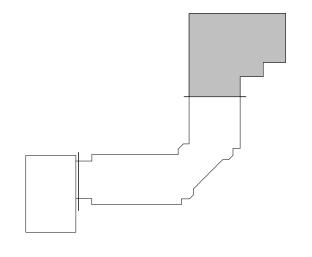
Drawing Number: June 30, 2020 1/8" = 1'-0" FP200 Drawn By: WRJ Project Number: 18.223



Fire Protection Reflected Ceiling Plan - Area B

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

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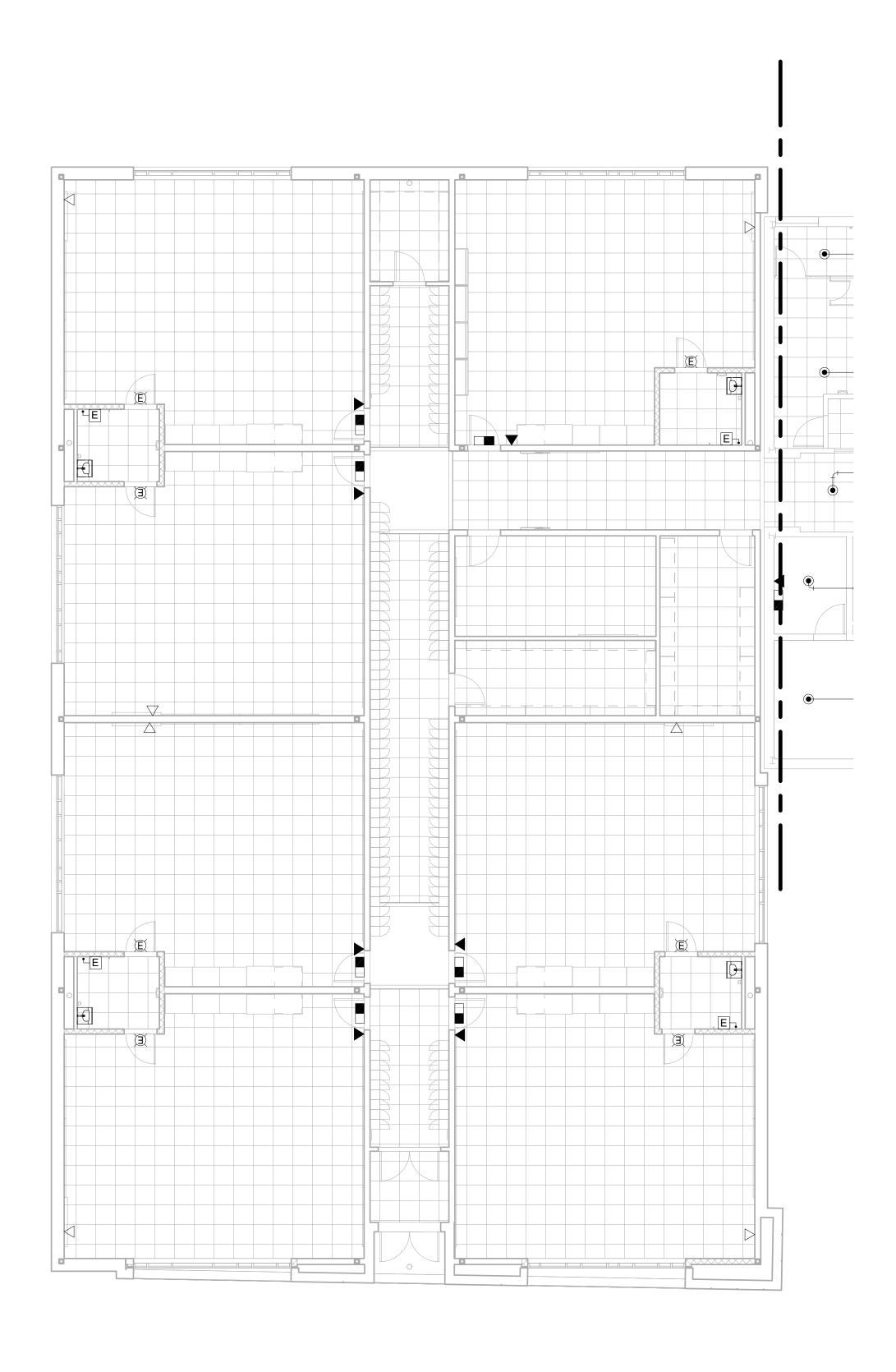


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Architects / Engineers / Interior Designers				
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5190 windley Avenue, framden, C1 00516-2540				
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Fire Protection Plan - Area "B"

State Project #: 162-0043RNV

June 30, 2020 1/8" = 1'-0" FP201 Drawn By: WRJ Project Number: 18.223



Fire Protection Reflected Ceiling Plan - Area C

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

TP202

Revised By:

Project Title:

Hinsdale School Alterations

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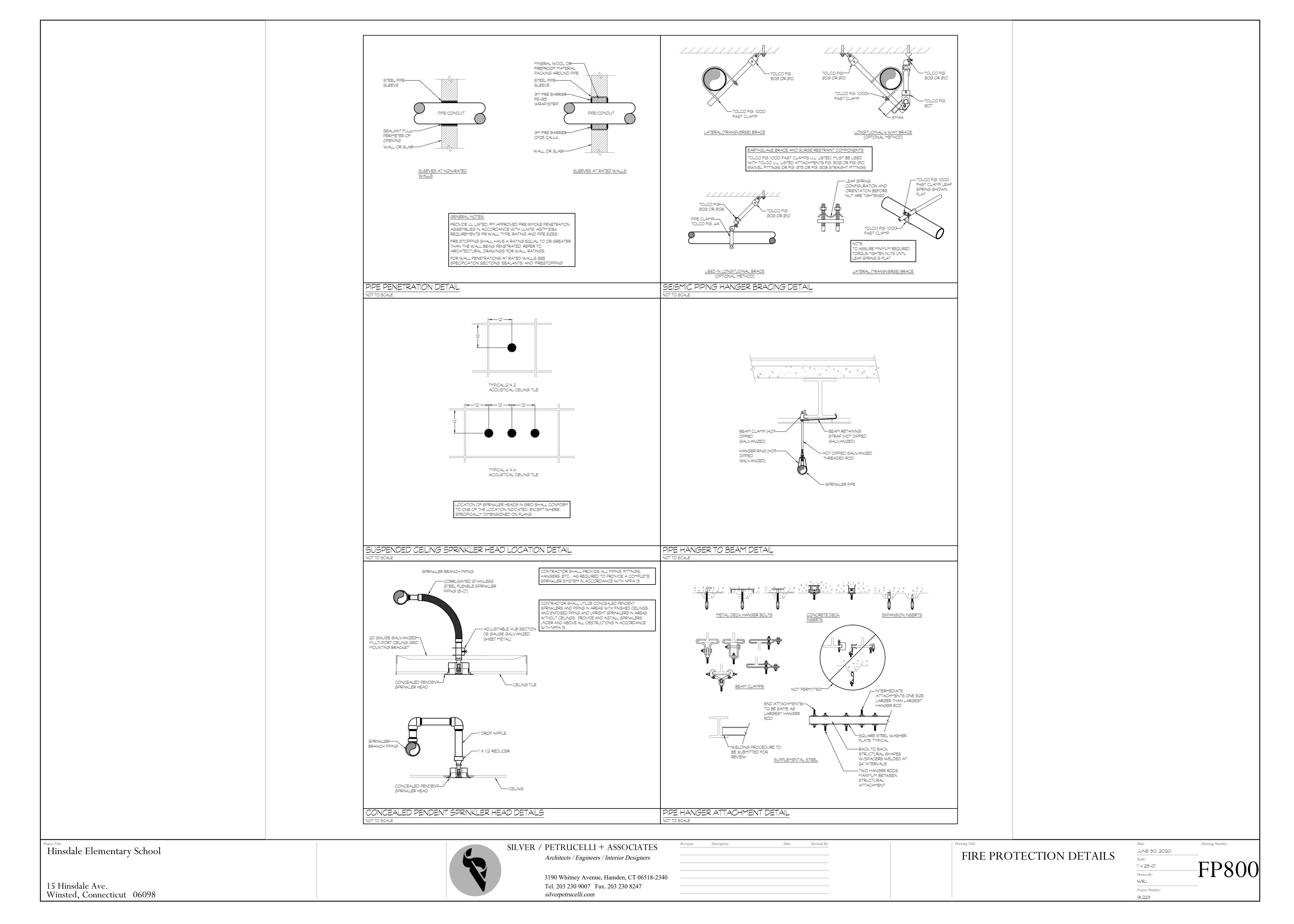
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Fire Protection Plan - Area "C"

State Project #: 162-0043RNV

Date: Drawing Number: June 30, 2020 Scale: 1/8" = 1'-0" Drawn By: WRJ Project Number: 18.223



					NG SCHEDI MAY BE USED ON P		
DESCRIPTION		SIZE	Р	IPE	F	ITTING	
		512E	TYPE	SCHEDULE	TYPE	RATING	
WET SPRINKLER PI	IPING	2" AND SMALLER	STL-BLK	40	MIT	STD	
WET SPRINKLER PI	IPING	2-1/2" AND LARGER	STL-BLK	10 OR 40	MIT/GRV	STD	
DRY SPRINKLER P	PIPING	2" AND SMALLER	GALV.	40	MIT	STD	ALL FITTINGS MUST BE GALVANIZED.
DRY SPRINKLER P	PIPING	2-1/2" AND LARGER	GALV.	40	MIT/GRV	STD	ALL FITTINGS MUST BE GALVANIZED
DRY SPRINKLER PIPING ONLY FOR SYSTEMS NORMALLY N2-CHARGED		2" AND SMALLER	STL-BLK	40	MIT	STD	
		2-1/2" AND LARGER	STL-BLK	10 OR 40	MIT/GRV	STD	
NORMALLY DRY F (TEST, DRAIN, ETC.)	·· ·· · · · · ·	2" AND SMALLER	GALV.	40	MIT	STD	ALL FITTINGS MUST BE GALVANIZED
AND FOR AND OFFICE MODE AND IN		2-1/2" AND LARGER	GALV.	40	MIT/GRV	STD	ALL FITTINGS MUST BE GALVANIZED
NOTES: 1. ALL EXPOSED PIPING AND FITTINGS WITHIN FINISHED AREAS SHALL BE CUSTOM PAINTED IN ACCORDANCE WITH NFPA, OWNERS PAINTING REQUIREMENTS AND COORDINATED WITH ARCHITECT. REFER TO DIVISION 9, SECTION "INTERIOR PAINTING" 2. ALL PIPING IN RETURN AIR CEILING PLENUM INSTALLATIONS SHALL BE UL LISTED FOR THIS APPLICATION 3. FIRE-BARRIER PENETRATIONS: MAINTAIN INDICATED FIRE RATING OF WALLS, PARTITIONS, CEILINGS, AND FLOORS AT PIPE PENETRATIONS, REFER TO ARCHITECTURAL PLANS FOR LOCATIONS. SEAL PIPE PENETRATIONS WITH FIRESTOP MATERIALS, REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION							
ABBREVIATIONS	DESCRIPTION				ABBREVIATIONS	DESCRIPTION	
GI	CAST IRON				GRV	GROOVED JOINT	SYSTEM FITTINGS/COUPLINGS
CLDI	CEMENT LINED DUCTILE IRON				GALV.	GALVANIZED STE	EEL
CUS	WROUGHT COPPER	SOLDER (95	5/5)		MIT	MALLEABLE IRON	N THREADED
DI	DUCTILE IRON				STD	STANDARD	

			VALVE	SCHED	DULE			
				TYPE				
DESCRIPTION		SIZE	OS&Y	BUTTERFLY	CHECK	BALL	CLASS	REMARKS
UNDERGROUND FIRE F	PROT. SERVICE	ALL	OS&YF	BFVF	CVF	BVF	175PSI	
WET SPRINKLER PIPIN	G	2" AND SMALLER	OS&YT	BFVT	CVT	BVT	175PSI	
WET SPRINKLER PIPING		2-1/2" AND LARGER	OS&YG	BFVG	CVG	BVG	175PSI	
DRY SPRINKLER PIPING		2" AND SMALLER	OS&YT	BFVT	CVT	BVT	175PSI	
DRY SPRINKLER PIPING		2-1/2" AND LARGER	OS&YG	BFVG	CVG	BVG	175PSI	
DRAIN PIPING		ALL				BVT	175PSI	
FIRE DEPARTMENT CO	FIRE DEPARTMENT CONNECTION PIPING				CVG		175PSI	
ABBREVIATION	DESCRIPTION			ABB	ABBREVIATION DESCRIPTION			·
BVF	BALL VALVE FLAN	IGED - FULL PORT, BRONZ	Έ	CVF		CHECK VALVE	FLANGED	
BVG	BALL VALVE GRO	OVED - FULL PORT, BRON	ZE	CVG		CHECK VALVE	GROOVED	
BVT	BALL VALVE THREADED, 2-PIECE, FULL PORT, 400PSI, BRONZE					CHECK VALVE	THREADED - E	BRONZE
BFVF	BUTTERFLY VALVE FLANGED				OSEY RISING STEM VALVE FLANGED			LANGED
BFVG	BUTTERFLY VALVE GROOVED				OSEYG OSEY RISING STEM VALVE GROOVED			FROOVED
BFVT	BUTTERFLY VALVE	E THREADED		0S£`	OS&YT OS&Y RISING STEM VALVE THREADED			HREADED

STL-BLK

BLACK STEEL

	SPRINKLER HEAD SCHEDULE											
SYMBOL	SYMBOL TYPE STYLE		OTVLE DECDONOE OF	COVERAGE	COLOR	DISCHARGE	ORIFICE	TEMP.	MANUFACTURE		REMARKS	
STIVIDOL	TYPE	STILE	RESPONSE	COVERAGE	COLOR	COEFFICENT (K)	ONIFICE	I CIVIP.	MODEL	SIN	REWARKS	
	DRY PENDENT	CONCEALED	QUICK	STANDARD	WHITE PLATE	5.6K	4/011	155°F	VICTA	ULIC	REFER TO NOTES	
• D	DKT FENDENT	CONCEALED	QUICK	STANDARD	WIIITE FLATE	3.0K	1/2"	155 F	V36	V3606	REFER TO NOTES	
0	O UPRIGHT		QUICK	STANDARD	BRASS	5.6K	1/2"	155°	VICTAULIC		DEEED TO NOTES	
	OFRIGITI	EXPOSED	QUICK	STANDARD	DNASS	3.0K	1/2		V27	V2704	REFER TO NOTES	
Δ _D	DRY SIDEWALL	RECESSED	QUICK	STANDARD	BRASS	5.6K	1/2"	155°	VICTA	AULIC	REFER TO NOTES	
D	BILL OIDENNIE	1,525655		017 11107 1110	510100	0.011	.,,_		V36	V3610	INCI EN TONOTES	
•	PENDENT	CONCEALED	QUICK	STANDARD	WHITE PLATE 5.6K	5.6K 1/2"	1/2"	155°F	VICTA	AULIC	REFER TO NOTES	
	PENDENT	001102/1228	GOIOIT	017111071110		0.014	172		V27	V2708	NEI EN TO NOTES	
	PENDENT	EXPOSED	QUICK	STANDARD	BRASS	5.6K	1/2"	2" 155°	VICTAULIC		REFER TO NOTES	
	. =			0 17 11 127 11 12	B10100	3.0K	1/2		V27	V2704	INCI EN TONOTES	

NOTES:

1. CONFIRM FINAL FINISHES WITH OWNER PRIOR TO SUBMITTING PRODUCT DATA FOR REVIEW.

DUCTILE IRON MECHANICAL JOINT

CONFIRM FINAL FINISHES WITH OWNER PRIOR TO SUBMITTING PRODUCT DATA FOR REVIEW.

 IN AREAS WITH CEILINGS, CONCEALED PENDENT SPRINKLER HEADS AND CONCEALED PIPING SHALL BE UTILIZED.

3. IN AREAS WITHOUT CEILINGS, EXPOSED UPRIGHT OR PENDENT SPRINKLER HEADS AND EXPOSED PIPING SHALL BE UTILIZED. UL LISTED HEAD GUARDS SHALL BE PROVIDED IN AREAS SUBJECT TO DAMAGE (I.E. MECHANICAL ROOMS, DEFLECTORS WITHIN 7 FEET OF FINISHED FLOOR, ETC...)

FIRE SERVICE BACKFLOW PREVENTER REPLACEMENT (DCDA)

LEAD-FREE (TO NSF 61) DOUBLE CHECK DETECTOR ASSEMBLY (DCDA), 6" SIZE, WITH SUPERVISED OS&Y GATE VALVES AND METERED DETECTOR ASSEMBLY WITH DOUBLE CHECK BACKFLOW PREVENTER. BODY SHALL BE STAINLESS STEEL OR EPOXY-COATED CAST IRON, WITH STAINLESS STEEL INTERNAL PARTS. RATED FOR 33°F-140°F TEMP. RANGE, 175 PSI WORKING PRESSURE. FOR ALL FLOWS AT OR BELOW SERVICE FLOW (FLOW AT 7.5 FT/SEC), PRESSURE DROP SHALL NOT EXCEED 7 PSI. METER SHALL HAVE REGISTRATION IN CUBIC FEET. BASIS OF DESIGN: WATTS LF757DCDA-OSY, WILKINS 350DA-CFM OR 350ASTDA-CFM.

Hinsdale Elementary School

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Kevisioii.	Description:	Date:	Keviseu by:

FIRE PROTECTION
SCHEDULES

Date:

JUNE 30, 2020

Scale:

1" = 25'-0"

Drawn By:

WRJ

Project Number:

18.223

GENERAL NOTES

<u>GENERAL</u>

WHEN A CONFLICT BETWEEN THE DRAWINGS, NOTES AND/OR SPECIFICATIONS OCCUR, THE MORE STRINGENT, AND/OR LARGER QUANTITY AND/OR MORE EXPENSIVE SHALL APPLY. THE REQUIREMENTS LISTED WITHIN NOTES OR SPECIFICATIONS SHALL BE REQUIRED, PROVIDED AND INSTALLED WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT.

WIRING & RACEWAY:

- THE DRAWINGS SHOW THE GENERAL LAYOUT AND TYPICAL DETAILS. PROVIDE COMPLETE SYSTEMS. DRAWINGS ARE BASED ON THE SPECIFIED EQUIPMENT. RACEWAY LAYOUTS, BOXES, AND WIRING OF THE SYSTEMS ARE SUBJECT TO APPROVED SHOP DRAWINGS.
- 2. ENSURE THAT ITEMS TO BE FURNISHED FIT THE SPACE AVAILABLE. MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS, AND PROVIDE SUCH SIZES AND SHAPES OF EQUIPMENT THAT FINAL INSTALLATION SHALL SATISFY THE INTENT OF THE DRAWINGS AND SPECIFICATIONS.
- 3. LOCATIONS OF OUTLETS, SWITCHES, APPLIANCES, ETC. AS SHOWN ON ELECTRICAL PLANS ARE APPROXIMATE; COORDINATE WITH ARCHITECTURAL AND MECHANICAL PLANS AND DETAILS, AND WITH JOB CONDITIONS. INSTALL SWITCHES WITH "OFF" POSITION DOWN. INSTALL RECEPTACLES WITH GROUNDING POLE IN THE UP POSITION FOR VERTICAL MOUNTING AND AT RIGHT FOR HORIZONTAL MOUNTING.
- 4. LOCATE AND INSTALL ELECTRICAL EQUIPMENT, JUNCTION AND PULL BOXES, PANELBOARDS, SWITCHES, CONTROLS, AND OTHER APPARATUS REQUIRING MAINTENANCE, INSPECTION, AND OPERATION SO AS TO BE READILY ACCESSIBLE.

RACEWAY INSTALLATION:

- IN ALL ARCHITECTURALLY FINISHED SPACES, CONDUITS AND CABLES SHALL BE RUN CONCEALED IN HUNG OR FURRED CEILINGS, SLABS, MASONRY, AND PARTITIONS UNLESS OTHERWISE INDICATED. SAW CUTTING AND FINISHED PATCHING SHALL BE REQUIRED IN EXISTING SLABS AND MASONRY WALLS. IN UNFINISHED SPACES, RACEWAYS MAY BE RUN EXPOSED.
- 2. UNLESS OTHERWISE INDICATED, EXACT ROUTING OF RACEWAYS SHALL BE DETERMINED BY THE CONTRACTOR TO SUIT PROJECT REQUIREMENTS AND FIELD CONDITIONS
- 3. PROVIDE SEPARATE RACEWAYS, JUNCTION BOXES, PULL BOXES AND WIREWAYS FOR ALL EMERGENCY SYSTEM WIRING.

WIRING INSTALLATION:

101' TO 200'

DO NOT USE WIRE SMALLER THAN NO. 12 AWG FOR ANY POWER OR LIGHTING CIRCUIT. USE LARGER SIZES WHERE INDICATED, AS REQUIRED BY CODES, AND AS FOLLOWS:

30 AMPERE CIRCUIT: NO. 10
40 AMPERE CIRCUIT: NO. 8
50 AMPERE CIRCUIT: NO. 6
60 AMPERE CIRCUIT: NO. 6

A. MINIMUM HOMERUN AND BRANCH CIRCUIT WIRING SIZES AND MAXIMUM HOMERUN CONDUIT FILL FOR 120 VOLT, 20 AMPERE CIRCUITS SHALL BE AS FOLLOWS:

	,		
LENGTH	<u>CIRCUIT</u> WIRE SIZE	HOME RUN WIRE SIZE	<u>CONDUIT SIZE</u> (8 WIRES/CONDUI
0' TO 50'	#12	#12	3/4"

GREATER THAN 200' - REQUEST DIRECTION FROM ARCHITECT

#10

NOTE: PROVIDE DERATING PER CODE WHEN INSTALLING MORE THAN 3 CURRENT CARRYING CONDUCTORS IN CONDUIT.

B. HOME RUNS AND BRANCH CIRCUIT WIRING FOR 277 VOLT, 20 AMPERE CIRCUITS SHALL BE AS FOLLOWS:

LENGTH	<u>CIRCUIT</u>	HOME RUN	<u>CONDUIT SIZE</u>
	WIRE SIZE	WIRE SIZE	(8 WIRES/CONDUIT
0' TO 100'	#12	#12	3/4"
100' TO 200'	#12	#10	3/4"

GREATER THAN 200' - REQUEST DIRECTION FROM ARCHITECT.

NOTE: PROVIDE DERATING PER CODE WHEN INSTALLING MORE THAN 3 CURRENT

NOTE: PROVIDE DERATING PER CODE WHEN INSTALLING MORE THAN 3 CURRENT CARRYING CONDUCTORS IN CONDUIT.

DO NOT USE WIRE SMALLER THAN NO. 14 AWG FOR CONTROL CIRCUITS UNLESS

- OTHERWISE RECOMMENDED BY THE EQUIPMENT OR SYSTEM MANUFACTURER ON WIRING SHOP DRAWINGS, AND SO APPROVED BY THE ARCHITECT.

 3. WHERE GREATER THAN THREE (3) CURRENT-CARRYING CONDUCTORS ARE INSTALLED IN ANY ONE CONDUIT OR CABLE, CONDUCTORS MUST BE DERATED AND SIZES
- IN ANY ONE CONDUIT OR CABLE, CONDUCTORS MUST BE DERATED AND SIZES
 INCREASED, IF NEEDED, TO ACCOMMODATE CONDUCTOR DERATING AS REQUIRED BY
 NEC ARTICLE 310.
- CONDUCTORS SHALL BE COMPLETELY INSTALLED AND CONNECTED. PROVIDE ALL TERMINALS, LUGS, AND CONNECTORS TO SUIT THE APPLICATION, AND IN COMPLIANCE WITH EQUIPMENT MANUFACTURERS' RECOMMENDATIONS.
- NEUTRAL CONDUCTOR.

UNDER NO CIRCUMSTANCES SHALL ANY SWITCH OR CIRCUIT BREAKER BREAK A

- 5. THE CIRCUIT NUMBERS INDICATED ON THE DRAWINGS ARE INTENDED AS A GUIDE FOR PROPER CONNECTION OF CIRCUITS AT PANELS. HOWEVER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE FINAL CIRCUITING WORK FULFILLS THE FOLLOWING CONDITIONS:
- A. LOADS ON PANEL BUSSES SHALL BE PHASE-BALANCED AS EVENLY AS POSSIBLE.

GROUNDING INSTALLATION

- EQUIPMENT GROUNDING
- A. INSTALL AN INSULATED GROUND CONDUCTOR, RUN IN THE RACEWAY WITH THE PHASE CONDUCTORS, FOR EACH FEEDER SERVING: PANELBOARDS, LIGHTING DIMMER BOARDS, MOTOR CONTROL CENTERS, MOTORS, EQUIPMENT AND APPLIANCES UNLESS OTHERWISE NOTED.
- INCLUDE AN INSULATED GROUND CONDUCTOR IN ALL CONDUIT RUNS CONTAINING SECTIONS OF FLEXIBLE CONDUIT UNLESS OTHERWISE NOTED.
- C. INCLUDE AN INSULATED GROUND CONDUCTOR IN ALL BRANCH CIRCUIT RACEWAYS OR CABLES UNLESS OTHERWISE NOTED.
- 2. TELECOMMUNICATIONS CLOSET GROUNDING
- PROVIDE A #4 AWG GROUND CONDUCTOR RISER IN 1" EMT CONDUIT TO EACH
 TELECOMMUNICATIONS CLOSET GROUNDING BUSBAR (TGB) FROM THE
 TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB), AND TO MAIN SERVICE
 GROUNDING ELECTRODE SYSTEM.

CONNECT THE GROUND RISER TO TMGB AND TGB'S PER TIA/EIA STANDARD 607 - 1994.

- C. PROVIDE ADDITIONAL #4 AWG GROUND CABLE CONNECTIONS FROM EACH TMGB AND TGB TO THE CLOSEST BUILDING STEEL AND TO THE GROUND BUS IN THE ELECTRIC PANEL FEEDING THE OUTLETS AND EQUIPMENT IN THE ASSOCIATED TELECOMMUNICATIONS ROOM/CLOSET.
- 3. GROUND EACH TELECOMMUNICATIONS, FIRE ALARM, SECURITY, AND BMS SYSTEM EQUIPMENT AND CONTROL PANEL WITHIN EACH TELECOMMUNICATIONS ROOM/CLOSET TO THE ASSOCIATED CLOSET TMGB OR TGB WITH A #4 AWG CONDUCTOR PER TIA/EIA STANDARD 607 1994.

ADA SYMBOLS :

ALL HANDICAP SINAGE IN PROJECT TO USE DYNAMIC PICTOGRAM SYMBOL OF ACCESSIBILITY AS ADOPTED BY CONNECTICUT PUBLIC ACT 16-78. ALL REFERNCES TO OTHER SYMBOLS ON DRAWINGS ARE FOR REFERNCE ONLY.

ELEVATOR EQUIPMENT WIRING:

- 1. WORK INCLUDED
- A. ELEVATOR EQUIPMENT WIRING INCLUDES POWER SERVICE CONNECTIONS, TELEPHONE SERVICE CONNECTIONS, PUBLIC ADDRESS SYSTEM CONNECTIONS AND FIRE ALARM SYSTEM CONNECTIONS.
- B. ELEVATOR CONTROL WIRING AND INTERLOCK CONTROLS ARE NOT INCLUDED.
- 2. COMPONENTS
- A. PROVIDE CIRCUIT BREAKER AND SHUNT TRIP ELEVATOR FUSED DISCONNECT WITH DRY CONTACTS FOR ELEVATOR DRIVE UNIT POWER, AND POWER WIRING COMPLETE TO THE DRIVE UNIT.
- B. PROVIDE BRANCH CIRCUITS FOR ELEVATOR CAB.
- C. PROVIDE CONDUIT FOR ELEVATOR COMMUNICATION SYSTEMS.
- D. PROVIDE CONDUIT AND WIRE FOR ELEVATOR RECALL SYSTEM; COORDINATE REQUIREMENTS WITH FIRE ALARM SYSTEM.
- E. PROVIDE ELEVATOR PIT, RECEPTACLES AND SWITCHES.
- F. PROVIDE HEAT DETECTORS AT THE TOP OF THE SHAFT AND INTERLOCK WITH THE DRIVE UNIT POWER SOURCE TO DISCONNECT POWER UPON SENSING OF FIRE AND BEFORE ACTIVATION OF ANY SPRINKLER HEADS. COORDINATE LOCATION OF DETECTOR WITH FP DRAWINGS.
- G. PROVIDE LOCKING MECHANISMS FOR OVERCURRENT DEVICES ON BRANCH CIRCUITS SERVING ELEVATOR EQUIPMENT INCLUDING CAB, PIT AND MACHINE ROOM LIGHTING, VENTILATION, RECEPTACLES AND CONTROLLER POWER.
- 3. COORDINATION
- A. COORDINATE ENTIRE INSTALLATION WITH ELEVATOR SYSTEM SUPPLIER PRIOR TO COMMENCEMENT OF WORK.
- B. IF THE HORSEPOWER RATING OF THE EQUIPMENT FURNISHED BY THE ELEVATOR SUPPLIER DIFFERS FROM THE HORSEPOWER LISTED ON THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO INSTALLING ANY WORK AND OBTAIN DIRECTION.

MECHANICAL EQUIPMENT WIRING:

- 1. UNLESS OTHERWISE INDICATED OR SPECIFIED HEREIN, ALL MOTORS, MOTOR STARTERS, MOTOR CONTROLLERS, VARIABLE SPEED/FREQUENCY DRIVES, AND ASSOCIATED CONTROL DEVICES ARE FURNISHED AND INSTALLED UNDER THIS DIVISION. COORDINATE INSTALLATION AND LOCATIONS WITH OTHER DIVISION CONTRACTORS.
- 2. POWER WIRING FROM THE INDICATED SOURCE TO THE STARTER/CONTROLLER/DRIVE UNIT, AND FROM THE STARTER/CONTROLLER/DRIVE UNIT TO THE MOTOR, INCLUDING ANY LOCAL DISCONNECT SWITCHES PROVIDED AND INSTALLED BY THIS DIVISION, AND ALL ASSOCIATED LUGS, TERMINALS, AND CONNECTIONS, IS THE WORK OF THIS DIVISION.
- 3. CONTROL CIRCUIT WIRING IS GENERALLY FURNISHED AND INSTALLED UNDER OTHER DIVISIONS, EXCEPT THAT ANY SUCH WIRING SHOWN ON ELECTRICAL DRAWINGS IS WORK OF THIS DIVISION.
- 4. PROVIDE 120 VOLT POWER TO ALL TEMPERATURE CONTROL PANELS (TCP'S) SUPPLIED AND INSTALLED BY HVAC CONTRACTOR. USE EMERGENCY POWER SOURCES WHEN AVAILABLE. COORDINATE ALL POWER REQUIREMENTS AND PANEL LOCATIONS WITH TEMPERATURE CONTROLS CONTRACTOR.
- 5. COOPERATE AND COORDINATE WITH THE OTHER TRADES IN THE INSTALLATION, CONNECTION, AND TESTING OF MECHANICAL EQUIPMENT. PERFORM WORK OF THIS SECTION IN ACCORDANCE WITH EQUIPMENT MANUFACTURERS' INSTRUCTIONS.

COORDINATION DRAWINGS:

- DEVELOP AND SUBMIT COORDINATION DRAWINGS AS OUTLINED.
- A. SHEET METAL, PLUMBING AND FIRE PROTECTION SHOP DRAWINGS THAT HAVE BEEN COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW. DRAWINGS MUST BE RETURNED FROM ENGINEER EITHER "REVIEWED" OR "FURNISH AS CORRECTED" PRIOR TO BEING USED AS BASIS FOR COORDINATION DRAWINGS.
- B. AFTER SHEET METAL AND PIPING DRAWINGS HAVE BEEN REVISED PER ENGINEERS COMMENTS, REPRODUCIBLE COPIES SHALL BE SENT TO THE TRADES IN THE FOLLOWING SEQUENCE FOR THE INCLUSION OF THEIR WORK:
 - -MECHANICAL SHEET METAL
 -PLUMBING PIPING
 -MECHANICAL PIPING

-SPRINKLER PIPING -ELECTRICAL WORK

- 2. AFTER ALL TRADES HAVE INCLUDED THEIR WORK ON THE COORDINATION DRAWING AND NOTED CONFLICTS, ALL TRADES SHALL MEET TO RESOLVE CONFLICTS AND AGREE TO ACCEPTABLE SOLUTIONS. EACH TRADE SHALL SIGN COORDINATION DRAWINGS. ITEMS NOT SHOWN ON COORDINATION DRAWING IS RESPONSIBILITY OF OMITTING CONTRACTOR AND CONTRACTOR IS SUBJECT TO ADDITIONAL COSTS INCURRED BY OTHER TRADES.
- 3. THE ARCHITECT AND ENGINEER ARE NOT PART OF THE COORDINATION DRAWING PROCESS. THE ENGINEER WILL PROVIDE ASSISTANCE FOR NOTED CONFLICTS ONLY. COORDINATION DRAWINGS ARE NOT TO BE CONSIDERED PIPING OR DUCT SHOP DRAWINGS. THE CONTRACTOR IS REQUIRED TO SUBMIT INDIVIDUAL PIPING AND DUCTWORK SHOP DRAWINGS FOR REVIEW BY THE ENGINEER. PIPING AND DUCTWORK SHOP DRAWINGS SHALL FOLLOW THE DESIGN INTENT OF THE CONTRACT DOCUMENTS.
- 4. SUBMIT FINAL SIGNED COORDINATION DRAWING TO ENGINEER FOR REVIEW. ENGINEER WILL REVIEW COORDINATION DRAWINGS FOR GENERAL ARRANGEMENT AND FOR NOTED CONFLICTS ONLY. SPECIFIC INSTALLATION REQUIREMENTS WILL BE REVIEWED ONLY IN INDIVIDUAL TRADE SHOP DRAWINGS.
- DEEMED TO BE IN CONFLICT WITH COORDINATION DRAWINGS SHALL BE REMOVED AND RE-INSTALLED IN CONFORMANCE WITH COORDINATION DRAWINGS.

5. ANY WORK FABRICATED OR INSTALLED PRIOR TO SIGN OFF BY ALL TRADES WHICH IS

- 6. EACH CONTRACTOR (MENTIONED ABOVE) IS RESPONSIBLE FOR THE COORDINATION OF HIS SUB-CONTRACTORS.
- 7. THE OVERALL COORDINATION OF THE COORDINATION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER IS NOT RESPONSIBLE FOR THE COORDINATION PROCESS. THE ENGINEER WILL RESPOND TO QUESTIONS THAT ARISE FROM THE COORDINATION PROCESS. DRAWINGS SUBMITTED WILL BE REVIEWED FOR CLEARLY IDENTIFIED CONFLICTS ONLY. SOLUTIONS TO CONFLICTS WILL NOT BEAR ADDITIONAL COST.

AS BUILT DRAWINGS

- 1. PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS REFLECTING AS INSTALLED CONDITIONS. AS-BUILT DRAWINGS SHALL INDICATE ALL INSTALLED CONDITIONS OF SYSTEMS WITHIN THIS DISCIPLINE. DRAWINGS SHALL BE OF SIMILAR SCALE AS THE CONSTRUCTION DOCUMENTS AND INCLUDE DETAILS AS NECESSARY TO CLEARLY REFLECT THE INSTALLED CONDITION. DRAWINGS SHALL BE BOUND IN A COMPLETE AND CONSECUTIVE SET. SUPPLEMENTAL SKETCHES AND LOOSE PAPERWORK WILL NOT BE ACCEPTABLE AND WILL BE RETURNED FOR REVISION. THE CONTRACTOR SHALL COMPLY WITH THE ENGINEERS COMMENTS TO PRODUCE A CLEAR AND CONCISE SET OF DRAWINGS. DRAWINGS SHALL BE SUBMITTED IN BOTH HARD COPY AND ELECTRONIC (AUTO-CAD VERSION AS REQUIRED BY THE OWNER) VERSION. NUMBER OF COPIES OF EACH AS REQUESTED BY THE OWNER.
- 2. PROVIDE "AS-BUILT DRAWINGS" INDICATING IN A NEAT AND ACCURATE MANNER A COMPLETE RECORD OF ALL REVISIONS OF THE ORIGINAL DESIGN OF THE WORK. INDICATE THE FOLLOWING INSTALLED CONDITIONS:
- A. INCLUDE ALL CHANGES AND AN ACCURATE RECORD, ON REPRODUCTIONS OF THE CONTRACT DRAWINGS OR APPROPRIATE SHOP
- B. DRAWINGS, OF ALL DEVIATIONS, BETWEEN THE WORK SHOWN AND WORK INSTALLED.
- C. EQUIPMENT LOCATIONS (EXPOSED AND CONCEALED), DIMENSIONED FROM PROMINENT BUILDING LINES.
- D. APPROVED SUBSTITUTIONS, CONTRACT MODIFICATIONS, AND ACTUAL EQUIPMENT AND MATERIALS INSTALLED.
- E. CONTRACT MODIFICATIONS, ACTUAL EQUIPMENT AND MATERIALS INSTALLED.

DEMOLITION AND REMOVALS

- WHEN NECESSARY TO TEMPORARILY DISCONNECT ANY EXISTING FEEDER OR BRANCH CIRCUIT SUPPLYING OCCUPIED FACILITIES, CONFER WITH THE OWNER, AND SCHEDULE A MUTUALLY AGREEABLE PERIOD OF INTERRUPTION.
- WHERE REPLACEMENT, RELOCATION OR MODIFICATION OF EXISTING EQUIPMENT IS INDICATED, PROVIDE AND MAINTAIN ALL TEMPORARY FEEDERS, CONNECTIONS, CIRCUIT PROTECTION, AND ANY OTHER MATERIALS AND APPURTENANCES REQUIRED TO MAINTAIN SERVICES TO OCCUPIED AREAS.
- 3. NO WORK SHALL BE LEFT INCOMPLETE, NOR ANY HAZARDOUS SITUATION CREATED, WHICH WILL AFFECT THE LIFE OR SAFETY OF THE PUBLIC AND/OR BUILDING OCCUPANTS. AT NO TIME SHALL THE WORK INTERFERE WITH OR CUT OFF ANY OF THE EXISTING SERVICES WITHOUT THE OWNER'S PRIOR WRITTEN PERMISSION.
- 4. THE OWNER RESERVES THE RIGHT TO OPERATE ALL EXISTING ELECTRICAL AND MECHANICAL EQUIPMENT NOT INCLUDED IN THIS WORK, AND TO PERFORM ALL REQUIRED SERVICING AND REPAIRS TO SAME, AT ALL TIMES.
- 5. IT IS REQUIRED THAT THE WORK INDICATED AND/OR SPECIFIED SHALL BE CARRIED OUT WITH A MINIMUM OF INTERFERENCE TO THE ESTABLISHED OPERATIONS OF THE BUILDING.
- 6. REMOVE, ABANDON, REROUTE, OR RELOCATE ANY CONDUIT, WIRING, LIGHTING FIXTURES, OUTLETS, AND OTHER ELECTRICAL ITEMS, WHICH ARE LAID BARE IN THE COURSE OF, OR INTERFERE WITH, THE ALTERATIONS. REMOVE ALL EXPOSED OUTLETS, CONDUIT, AND BRANCH CIRCUIT WORK, WHICH INTERFERE WITH THE ALTERATIONS.
- 7. IT IS THE INTENTION OF THESE SPECIFICATIONS TO PROVIDE FOR THE CONTINUANCE OF ALL ELECTRICAL SERVICES PRESENTLY INSTALLED IN THE UNALTERED AREAS. PROVIDE ALL CONDUIT, WIRING, AND DEVICES NECESSARY TO MAINTAIN SERVICES TO THESE AREAS.
- 8. COMPARE THE PLANS WITH THE EXISTING CONDITIONS TO DETERMINE THE AMOUNT OF WORK AFFECTED. REMOVE ALL UNUSED EXPOSED CIRCUIT WORK, OUTLETS, FIXTURES AND THE LIKE NOT REQUIRED BY THE ALTERATIONS.
- 9. ALL MATERIALS REQUIRED TO BE REMOVED AND NOT REINSTALLED UNDER THIS DIVISION OF THE WORK, UNLESS OTHERWISE INDICATED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR, AND SHALL BE REMOVED FROM THE SITE.
- 10. WHERE FEEDERS AND BRANCH CIRCUITS OR DEVICES AND EQUIPMENT ARE INDICATED TO BE REMOVED, CONDUCTORS AND CABLES SHALL BE COMPLETELY REMOVED BACK TO THEIR SOURCE. EXPOSED OR ACCESSIBLE CONDUITS SHALL BE REMOVED COMPLETELY; CONDUITS EMBEDDED IN CONCRETE OR MASONRY SHALL BE CUT OFF FLUSH AND THE SURFACE PATCHED SMOOTH AND LEVEL.
- REMOVED MATERIALS SHALL BE DISPOSED OF USING LICENSED CARTING SERVICE.
- 2. HAZARDOUS MATERIALS CONTAINING PCB'S (BALLASTS), AND THE LIKE SHALL BE DISPOSED OF BY AN EPA APPROVED, LICENSED DISPOSAL SERVICE. CONTRACTOR SHALL OBTAIN AND HAVE ON FILE, AFFIDAVIT, AND RECEIPTS STATING HOW AND WHERE THE WASTE WAS DISPOSED OF OR CONVERTED.
- 13. CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT IN OR ON WALLS THAT ARE TO BE REMOVED MAINTAIN CONTINUITY OF ALL EXISTING BRANCH CIRCUITRY TO EXISTING ROOMS NOT BEING RENOVATED. REWIRE ALL EXISTING BRANCH CIRCUITS (THAT ARE TO REMAIN) AS REQUIRED. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR WALLS BEING REMOVED REFER TO CONSTRUCTION SCHEDULE FOR TIME DELAY.
- . CONDUIT IN EXISTING OR NEW CEILINGS THAT IS NOT INTENDED FOR REUSE SHALL BE REMOVED BACK TO THE PANEL FROM WHICH IT ORIGINATES.
- 5. CONDUCTORS THAT ARE NOT DEEMED REUSABLE SHALL BE REMOVED BACK TO THE NEAREST JUNCTION BOX. WHERE THE ENTIRE CIRCUIT IS TO BE REMOVED, THE CONDUCTORS SHALL BE REMOVED BACK TO THE PANELBOARD FROM WHICH THEY ORIGINATE
- 16. OUTAGES OF EXISTING ELECTRICAL (LIGHTING, POWER, AND SIGNAL) SYSTEMS
 NECESSITATED BY WORK OF ALL TRADES SHALL BE IN ACCORDANCE WITH FIELD
 SCHEDULES BY THE GENERAL CONTRACTOR AND OWNER INCLUDE ALL ELECTRIC
 WORK OVERTIME AND SUPERVISION TO COMPLY CONTRACTOR SHALL OBTAIN
 OWNER'S GENERAL CONTRACTOR'S APPROVAL PRIOR TO DISRUPTING OF EXISTING
 ELECTRICAL SYSTEM.
- 17. CONTRACTOR TO MAINTAIN CONTINUITY AND ACCESSIBILITY OF ALL EXISTING SYSTEMS AND SYSTEM EQUIPMENT FEEDERS WHICH MAY BE DISRUPTED FOR WORK OF ANY TRADE.
- 8. CONTRACTOR TO MAINTAIN CONTINUITY AND ACCESSIBILITY OF ALL EXISTING ELECTRICAL (POWER, LIGHTING, AND SIGNAL) SYSTEMS, EQUIPMENT FEEDERS AND BRANCH CIRCUITS ON FLOORS OR AREAS THAT ARE NOT AFFECTED BY DEMOLITION OR NEW CONSTRUCTION REFER TO CONSTRUCTION SCHEDULE FOR ADDITIONAL INFORMATION.
- 19. ANY EXISTING ELECTRICAL WORK WHICH IS PULLED OUT OR CUT AWAY SHALL BE REMOVED FROM THE SITE AS DIRECTED BY THE GENERAL CONTRACTOR AND THE
- 20. EXISTING ELECTRICAL EQUIPMENTS WHICH IS NOT TO BE REUSED SHALL BE REMOVED FROM DRYWALL PARTITIONS. ANY OPENING IN EXISTING PARTITIONS LEFT BY REMOVAL OF EXISTING ELECTRICAL EQUIPMENT SHALL BE PATCHED BY THIS CONTRACTOR WITH MATERIALS TO MATCH EXISTING.
- 21. FOR PURPOSES OF THE CONTRACT, WHA'T IS NOTED OR SHOWN ON DRAWINGS INDICATES THE SCOPE OF WORK REQUIRED AND QUALITY OF MATERIALS REQUIRED.
- 2. CONTRACTOR TO EXAMINE ALL CONTRACT DOCUMENTS AND PERFORM ALL DEMOLITION BOTH FOR AREAS BEING RENOVATED AND FOR AREAS WHICH MUST BE REWORKED TO PERMIT THE INSTALLATION OF WORK BY THE VARIOUS TRADES.
- 23. CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE EXTENT OF DEMOLITION AND REMOVALS PRIOR TO THE SUBMISSION OF BIDS. NO CONSIDERATION SHALL BE GIVEN FOR FAILURE TO VISIT THE SITE.

ABBREVIATIONS

- AMPERES

 ABOVE FINISHED FLOOR
- ABOVE FINISHED FLOOR

CIRCUIT BREAKER

CKT CIRCUIT

C/B

- DIA DIAMETER

 EC ELECTRICAL CONTRACTOR
- EM EMERGENCY (WIRED TO GENERATOR LIFE SAFETY DISTRIBUTION)
- EM EMERGENCY (WIRED TO GENER

 ETR EXISTING TO REMAIN
- EWC ELECTRIC WATER COOLER
- ELECTRIC WATER HEATER
 EM EXISTING TO BE REMOVED
- HEAT TRACE

 JB JUNCTION BOX
- M/B MAIN BREAKER

 MLO MAIN LUG ONLY
- MON MONITOR

 MID MOUNTED
- NL NIGHT LIGHT (24/7 UNSWITCHED CIRCUIT)

LOCAL SOUND SYSTEM RACK

- PNL PANELBOARD

 RELOC RELOCATE/RELOCATED AT THE SAME HEIGHT (PER NEC REQUIREMENTS)
- SM SECURITY SPOT MONITOR & PC

 U.O.N. UNLESS OTHERWISE NOTED
- WG WRE GUARD
- WP WEATHERPROOF

ELECTRICAL LEGEND

(NOT ALL SYMBOLS ARE USED)

DISTRIBUTION PANEL, 480/277 VOLT

ELECTRICAL PANEL, 480/277 VOLT

PANELBOARD FLUSH MOUNTED

PANELBOARD SURFACE MOUNTED

NON-FUSED DISCONNECT SWITCH

FUSED DISCONNECT SWITCH

WALL MOUNTED JUNCTION BOX, ACCORDING TO NEC REQUIREMENTS

CEILING MOUNTED JUNCTION BOX, ACCORDING TO NEC REQUIREMENTS

MOTOR STARTER, COORDINATE EXACT REQUIREMENTS WITH MOTOR FURNISHED

RECESSED LIGHT FIXTURE; LETTER INDICATES FIXTURE TYPE

RECESSED LIGHT FIXTURE CONNECTED TO THE GENERATOR.

TYPICAL RECESSED LED TROFFER; LETTER INDICATES FIXTURE TYPE

RECESSED LED LIGHT FIXTURE CONNECTED TO THE GENERATOR.

RECESSED HIGH EFFICIENCY GLARE CONTROL FIXTURE; LETTER INDICATES FIXTURE TYPE

U NDERCABINET LED FIXTURE; LETTER INDICATES FIXTURE TYPE

U NDERCABINET LED FIXTURE; LETTER INDICATES FIXTURE TYPE

TYPICAL PENDANT/CHAIN HUNG LED FIXTURE; LETTER INDICATES FIXTURE TYPE

WALL MOUNTED FIXTURE; LETTER INDICATES FIXTURE TYPE

WALL MOUNTED FIXTURE CONNECTED TO THE GENERATOR.

6 6

WALL MOUNTED SCONCE FIXTURE CONNECTED TO THE GENERATOR.

CEILING MOUNTED EXIT SIGN, SHADING INDICATES DIRECTION OF FIXTURE FACE, ARROW INDICATES DIRECTION OF CHEVRON, PROVIDE UNSWITCHED POWER FROM AREA LIGHTING CIRCUIT

WALL MOUNTED EXIT SIGN, INSTALL AT 7-6" AFF OR ON EXISTING LOCATION

DOUBLE FACE EXIT SIGN

FLOOR PROXIMITY EXIT SIGN, INSTALL BETWEEN 8" & 1-6" AFF

TWIN HEAD EMERGENCY LIGHT WITH INTEGRAL BATTERY FOR 90 MINUTE EMERGENCY LIGHTING

\$ 3-WAY SWITCH; MOUNT AT 48" AFF

\$ 4-WAY SWITCH; MOUNT AT 48" AFF

SINGLE POLE SWITCH; MOUNT AT 48" AFF

\$ DUAL TECHNOLOGY, OCCUPANCY SENSOR SWITCH; MOUNT AT 48" AFF

\$ DIMMING SWITCH; MOUNT AT 48" AFF, COMPATIBLE WITH LOAD CONTROLLED

\$ KEYED SINGLE POLE SWITCH; MOUNT AT 48" AFF

\$ KEYED 3-WAY SWITCH; MOUNT AT 48" AFF

\$ OIL BURNER SHUT-OFF SWITCH

\$ SINGLE POLE SWITCH WITH PILOT LIGHT

TOGGLE DISCONNECT: MOUNT ON OR BY EQUIPMENT

DUPLEX RECEPTACLE; MOUNT AT 18" AFF UNLESS OTHERWISE SPECIFIED

SINGLE RECEPTACLE; MOUNT AT 18" AFF UNLESS OTHERWISE SPECIFIED

QUAD RECEPTACLE; MOUNT AT 18" AFF UNLESS OTHERWISE SPECIFIED

GROUND FAULT INTERRUPTING DUPLEX RECEPTACLE; MOUNT AT 18" AFF UNLESS OTHERWISE SPECIFIED

RECEPTACLE WITH OUTDOOR RATED COVER PLATE, PROVIDE FLUSH MOUNTED BOX

SPECIAL OUTLET CONFIGURATION, REFER TO MANUFACTURERS MANUAL FOR NEMA#

CEILING MOUNTED DUPLEX RECEPTACLE; PROVIDE FLUSH MOUNTED BOX FLOOR MOUNTED RECEPTACLE; SEE SPECIFICATION FOR DETAILS

HAND DRYER

TECH ED CORD REEL DROPS

₩P

EQUIPMENT TAG

BD ELECTRICAL ALARM BELL, FOR DRY AND WET CONDITIONS

CALL-FOR-AID CORRIDOR LIGHT/BUZZER, MOUNT AT 7'-6" AFF

CO DETECTOR AUDIO/VISUAL ALARM, MOUNT AT 7'-6" AFF

CALL-FOR-AID SWITCH. MOUNT AT 36" AFF WITH PULL CORD HANGING DOWN TO 6" AFF

BRANCH CIRCUIT HOMERUN (VOLTAGE, BRANCH CIRCUIT POLES)

CEILING MOUNTED OCCUPANCY SENSOR (INFRARED/ULTRASONIC) WITH 360° COVERAGE

DAYLIGHT HARVESTING SENSOR

FIRE ALARM MANUAL PULL STATION - 48"AFF U.O.N.

FIRE ALARM SPEAKER/STROBE - 80"AFF U.O.N.

FIRE ALARM STROBE LIGHT - 80"AFF U.O.N.

SMOKE DETECTOR

🗐 ELEVATOR RECALL SMOKE DETECTOR

HEAT DETECTOR

DUCT MOUNTED IONIZATION SMOKE DETECTOR

FLOW SWITCH

TAMPER SWITCH

PS PRESSURE SWITCH

FIRE ALARM MAGNETIC DOOR HOLD OPEN

12" DIAMETER WALL MOUNTED CENTRAL CLOCK

EMERGENCY POWER OFF SWITCH (EPO)

Hinsdale Elementary School

Winsted, Connecticut 06098

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Revision: Date: Revised By:

ELECTRICAL GENERAL NOTES, ABBREVIATIONS &

Drawing Title:

SYMBOLS

Date:

JUNE 30, 2020

Scale:

1/8"=1"-0"

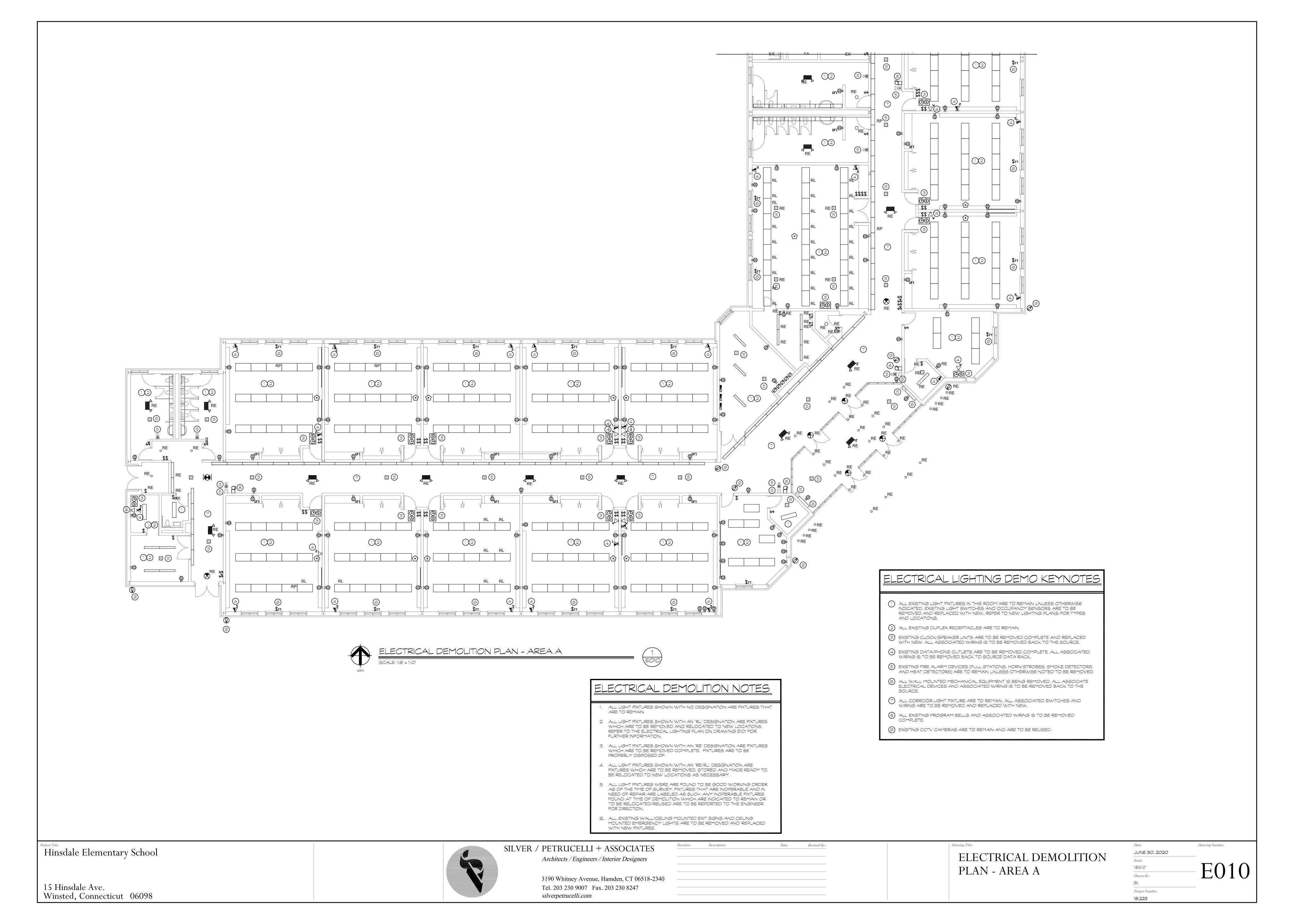
Drawn By:

GK

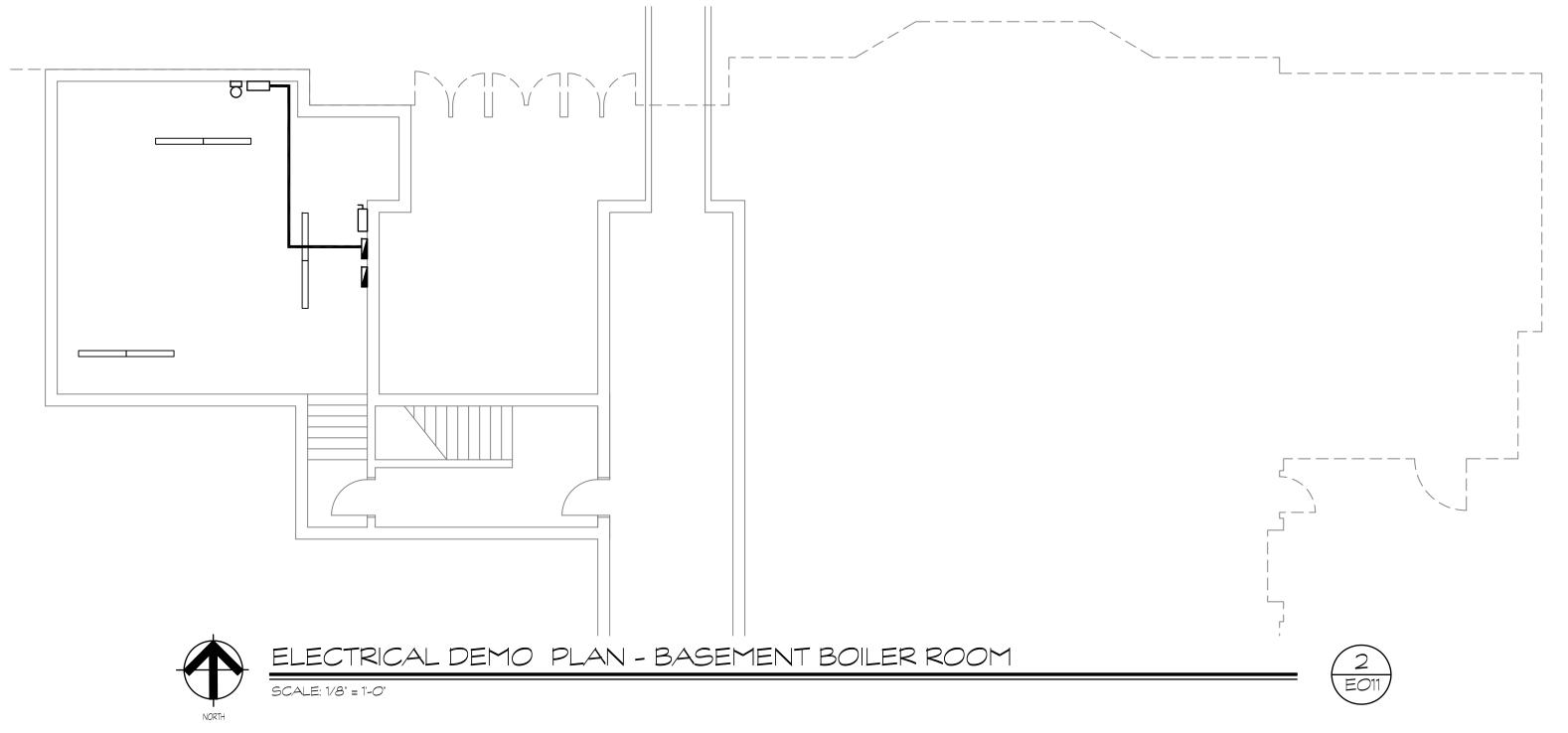
Project Number:

18.223

15 Hinsdale Ave.







ELECTRICAL LIGHTING DEMO KEYNOTES

- ALL EXISTING LIGHT FIXTURES IN THIS ROOM ARE TO REMAIN UNLESS OTHERWISE INDICATED. EXISTING LIGHT SWITCHES AND OCCUPANCY SENSORS ARE TO BE REMOVED AND REPLACED WITH NEW. REFER TO NEW LIGHTING PLANS FOR TYPES AND LOCATIONS.
- 2) ALL EXISTING DUPLEX RECEPTACLES ARE TO REMAIN.
- 3 EXISTING CLOCK/SPEAKER UNITS ARE TO BE REMOVED COMPLETE AND REPLACED WITH NEW. ALL ASSOCIATED WIRING IS TO BE REMOVED BACK TO THE SOURCE.
- 4 EXISTING DATA/PHONE OUTLETS ARE TO BE REMOVED COMPLETE. ALL ASSOCIATED WIRING IS TO BE REMOVED BACK TO SOURCE DATA RACK.
- 5 EXISTING FIRE ALARM DEVICES (PULL STATIONS, HORN/STROBES, SMOKE DETECTORS AND HEAT DETECTORS) ARE TO REMAIN UNLESS OTHERWISE NOTED TO BE REMOVED.
- 6 ALL WALL MOUNTED MECHANICAL EQUIPMENT IS BEING REMOVED. ALL ASSOCIATE ELECTRICAL DEVICES AND ASSOCIATED WIRING IS TO BE REMOVED BACK TO THE
- ALL CORRIDOR LIGHT FIXTURE ARE TO REMAIN. ALL ASSOCIATED SWITCHES AND WIRING ARE TO BE REMOVED AND REPLACED WITH NEW.
- 8 ALL EXISTING PROGRAM BELLS AND ASSOCIATED WIRING IS TO BE REMOVED

ELECTRICAL DEMOLITION NOTES

1. ALL LIGHT FIXTURES SHOWN WITH NO DESIGNATION ARE FIXTURES THAT ARE TO REMAIN.

- 2. ALL LIGHT FIXTURES SHOWN WITH AN "RL" DESIGNATION ARE FIXTURES WHICH ARE TO BE REMOVED AND RELOCATED TO NEW LOCATIONS.
 REFER TO THE ELECTRICAL LIGHTING PLAN ON DRAWING E101 FOR FURTHER INFORMATION.
- 3. ALL LIGHT FIXTURES SHOWN WITH AN "RE" DESIGNATION ARE FIXTURES WHICH ARE TO BE REMOVED COMPLETE. FIXTURES ARE TO BE PROPERLY DISPOSED OF.
- 4. ALL LIGHT FIXTURES SHOWN WITH AN "RE/RL" DESIGNATION ARE FIXTURES WHICH ARE TO BE REMOVED, STORED AND MADE READY TO BE RELOCATED TO NEW LOCATIONS AS NECESSARY.
- 5. ALL LIGHT FIXTURES WERE ARE FOUND TO BE GOOD WORKING ORDER AS OF THE TIME OF SURVEY. FIXTURES THAT ARE INOPERABLE AND IN NEED OF REPAIR ARE LABELED AS SUCH. ANY INOPERABLE FIXTURES FOUND AT TIME OF DEMOLITION WHICH ARE INDICATED TO REMAIN OR TO BE RELOCATED/REUSED ARE TO BE REPORTED TO THE ENGINEER
- 6. ALL EXISTING WALL/CEILING MOUNTED EXIT SIGNS AND CEILING MOUNTED EMERGENCY LIGHTS ARE TO BE REMOVED AND REPLACED WITH NEW FIXTURES.

Revision: Description:

Project Title:
Hinsdale Elementary School

Winsted, Connecticut 06098

15 Hinsdale Ave.



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Date:	Revised By:	Drawing Title:
		ELECTRICAL DEMO P
		- AREA B

Date:

JUNE 30, 2020

Scale:

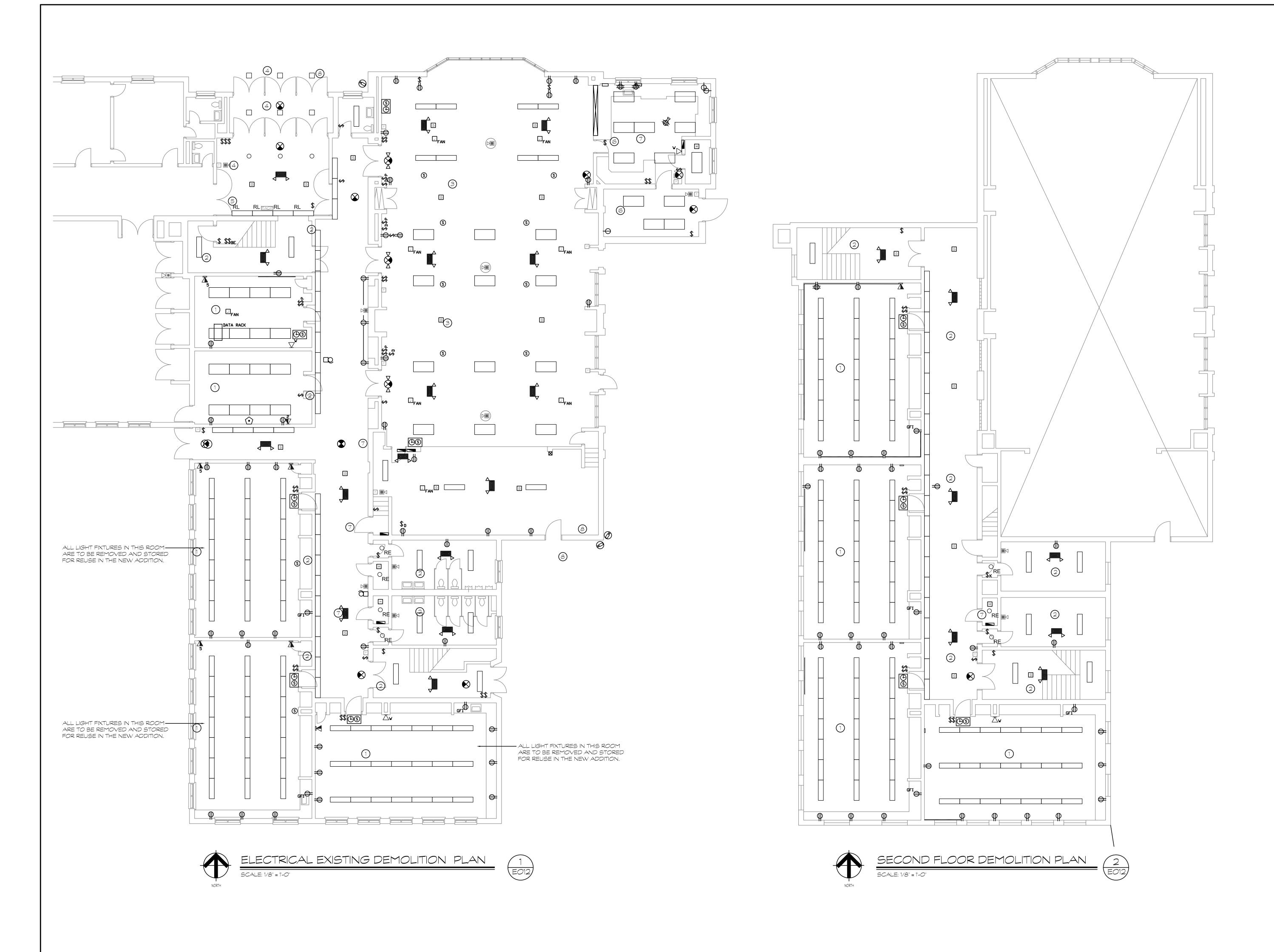
1/8"=1"-0"

Drawn By:

GK

Project Number:

18.223



ELECTRICAL LIGHTING DEMO KEYNOTES

- ALL EXISTING LIGHT FIXTURES IN THIS ROOM ARE TO BE REMOVED AND STORED FOR RE-INSTALLATION IN NEW WING CLASSROOMS UNLESS OTHERWISE NOTED. ALL OTHER ELECTRICAL DEVICES (SWITCHES, OUTLETS, DATA OUTLETS, RACEWAY, CONDUIT, WIRING, ETC) ARE TO BE REMOVED COMPLETE.
- ALL CORRIDOR, STAIRWAY AND TOILET ROOM LIGHT FIXTURE ARE TO BE REMOVED AND STORED FOR REINSTALLATION IN THE NEW WING CORRIDORS UNLESS OTHERWISE NOTED. ALL OTHER ELECTRICAL DEVICES (SWITCHES, OUTLETS, DATA OUTLETS, RACEWAY, CONDUIT, WIRING, PROGRAM BELLS, FIRE ALARM DEVICES, EXIT AND EMERGENCY LIGHTING, ETC) ARE TO BE REMOVED COMPLETE. EXIT SIGNS AND EMERGENCY LIGHTS ARE NOT TO BE REUSED.
- ALL GYMNASIUM/CAFETERIA LIGHT FIXTURES ARE TO BE REMOVED AND STORED FOR RE-INSTALLATION IN THE RENOVATED WING "B". ALL OTHER ELECTRICAL DEVICES (SWITCHES, OUTLETS, DATA OUTLETS, RACEWAY, CONDUIT, WIRING, PROGRAM BELLS, FIRE ALARM DEVICES, EXIT AND EMERGENCY LIGHTING, ETC) ARE TO BE REMOVED COMPLETE. EXIT SIGNS AND EMERGENCY LIGHTS ARE NOT TO BE REUSED.
- 4 ALL ENTRY/LOBBY LIGHT FIXTURES, INCLUDING EXTERIOR, ARE TO BE REMOVED UNLESS OTHERWISE NOTED. ALL OTHER ELECTRICAL DEVICES (SWITCHES, OUTLETS, DATA OUTLETS, RACEWAY, CONDUIT, WIRING, PROGRAM BELLS, FIRE ALARM DEVICES, EXIT AND EMERGENCY LIGHTING, ETC) ARE TO BE REMOVED COMPLETE. EXIT SIGNS AND EMERGENCY LIGHTS ARE NOT TO BE REUSED.
- EXISTING FIRE ALARM PANELS ARE TO BE REMOVED AND RELOCATED TO THE NEW MAIN OFFICE IN WING "A". ALL EXISTING NOTIFICATION AND INITIATION LOOP WIRING (EXCEPT THOSE FROM THE SECTION OF BUILDING BEING DEMOLISHED) SHALL BE EXTENDED TO NEW FIRE ALARM PANEL LOCATION.
- ALL KITCHEN AREA LIGHT FIXTURES ARE TO BE REMOVED AND STORED FOR REINSTALLATION IN NEW KITCHEN AREA IN WING "B". ALL OTHER ELECTRICAL DEVICES (SWITCHES, OUTLETS, DATA OUTLETS, RACEWAY, CONDUIT, WIRING, HOOD CONTROL PANELS, FIRE ALARM DEVICES, EXIT AND EMERGENCY LIGHTING, ETC) ARE TO BE REMOVED COMPLETE. EXIT SIGNS AND EMERGENCY LIGHTS ARE NOT TO BE REUSED.
- 7 EXISTING ELECTRICAL PANEL TO BE REMOVED. ALL ASSOCIATED CONDUIT AND WIRING TO BE REMOVED BACK TO BASEMENT SOURCE PANEL.
- (3) EXISTING CCTV CAMERAS AND BRACKETS ARE TO BE REMOVED AND STORED FOR REINSTALLATION. REFER TO NEW POWER DRAWINGS FOR LOCATIONS. ALL EXISTING CAMERA CABLING IS TO BE REMOVED COMPLETE BACK TO THE SOURCE.

ELECTRICAL DEMOLITION NOTES

- 1. ALL LIGHT FIXTURES SHOWN WITH NO DESIGNATION ARE FIXTURES THAT ARE TO BE REMOVED AND STORED FOR REINSTALLATION IN BUILDING BEING RENOVATED.
- 2. ALL LIGHT FIXTURES SHOWN WITH AN "RL" DESIGNATION ARE FIXTURES WHICH ARE TO BE REMOVED AND RELOCATED TO NEW LOCATIONS.
 REFER TO THE ELECTRICAL LIGHTING PLAN ON DRAWING E101 FOR FURTHER INFORMATION.
- ALL LIGHT FIXTURES SHOWN WITH AN "RE" DESIGNATION ARE FIXTURES WHICH ARE TO BE REMOVED COMPLETE. FIXTURES ARE TO BE PROPERLY DISPOSED OF.
- 4. ALL LIGHT FIXTURES SHOWN WITH AN "RE/RL" DESIGNATION ARE FIXTURES WHICH ARE TO BE REMOVED, STORED AND MADE READY TO BE RELOCATED TO NEW LOCATIONS AS NECESSARY.
- 5. ALL LIGHT FIXTURES WERE ARE FOUND TO BE GOOD WORKING ORDER AS OF THE TIME OF SURVEY. FIXTURES THAT ARE INOPERABLE AND IN NEED OF REPAIR ARE LABELED AS SUCH. ANY INOPERABLE FIXTURES FOUND AT TIME OF DEMOLITION WHICH ARE INDICATED TO BE RELOCATED/REUSED ARE TO BE REPORTED TO THE ENGINEER FOR
- 6. ALL EXISTING WALL/CEILING MOUNTED EXIT SIGNS AND CEILING MOUNTED EMERGENCY LIGHTS ARE TO BE REMOVED.



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Revision:	Description:	Date:	Revised By:

ELECTRICAL DEMO PLAN -EXISTING 2 STORY AREA Date:

JUNE 30, 2020

Scale:

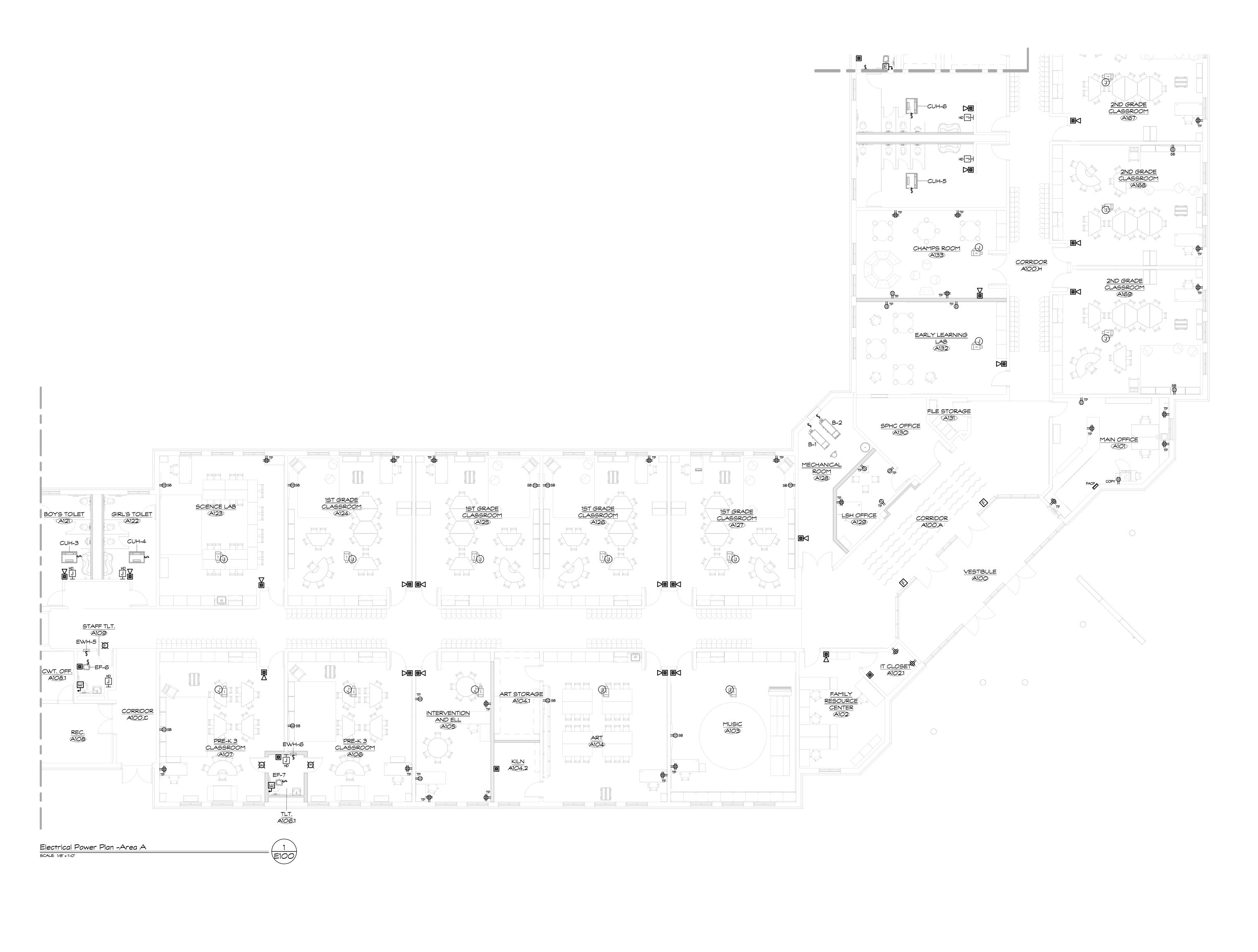
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Drawn By:

GK

Project Number:

18.223



Hinsdale School Alterations

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Winsted, CT 06098



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Revised By:

ELECTRICAL POWER PLAN AREA A
State Project #: 162-0043RNV

Date:

June 30, 2020

Scale: 1/8'' = 1'-0''Drawn By:

MTC

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ELECTRICAL POWER PLAN AREA B

State Project #: 162-0043RNV

Date:

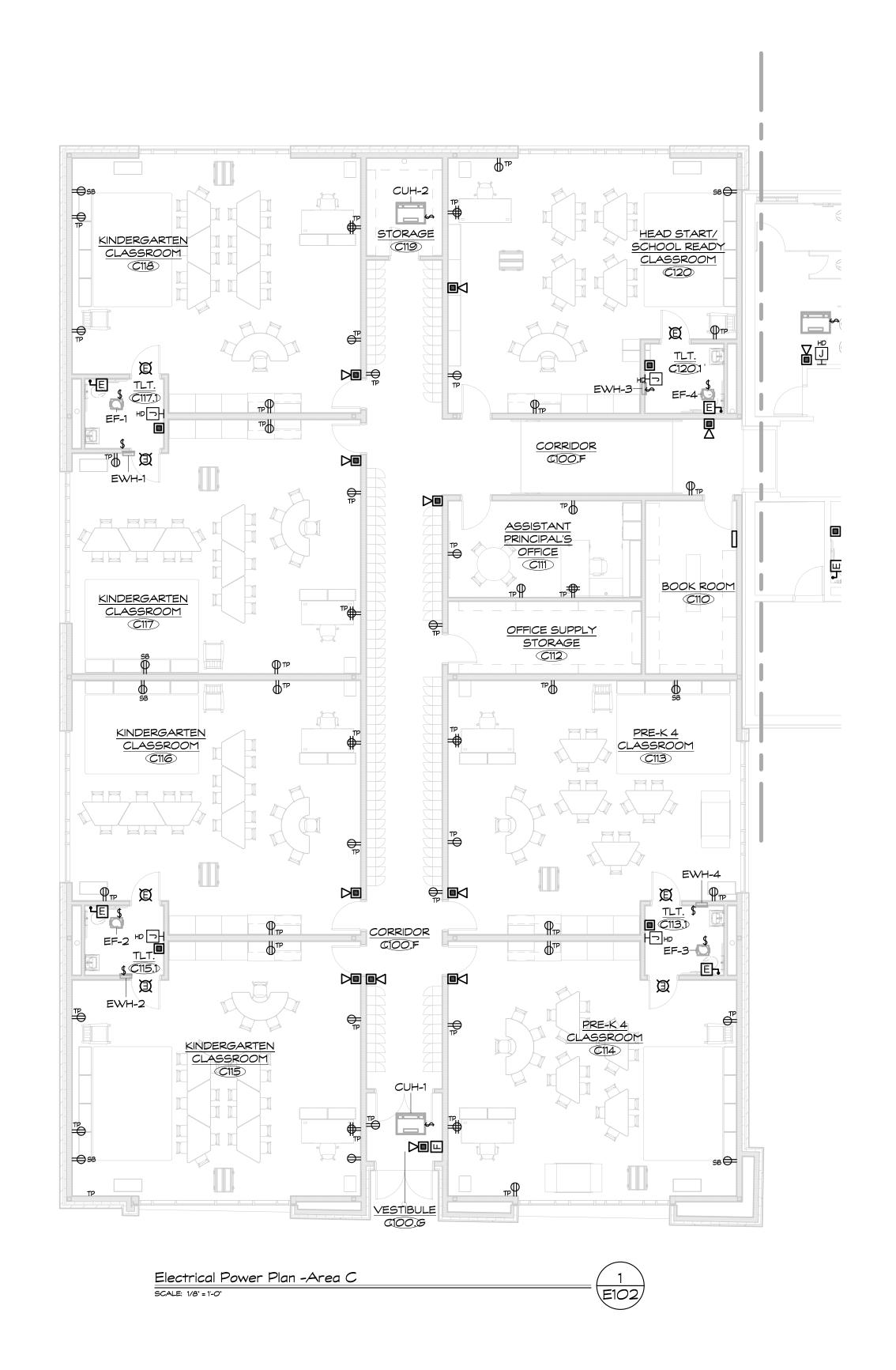
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Project Number:

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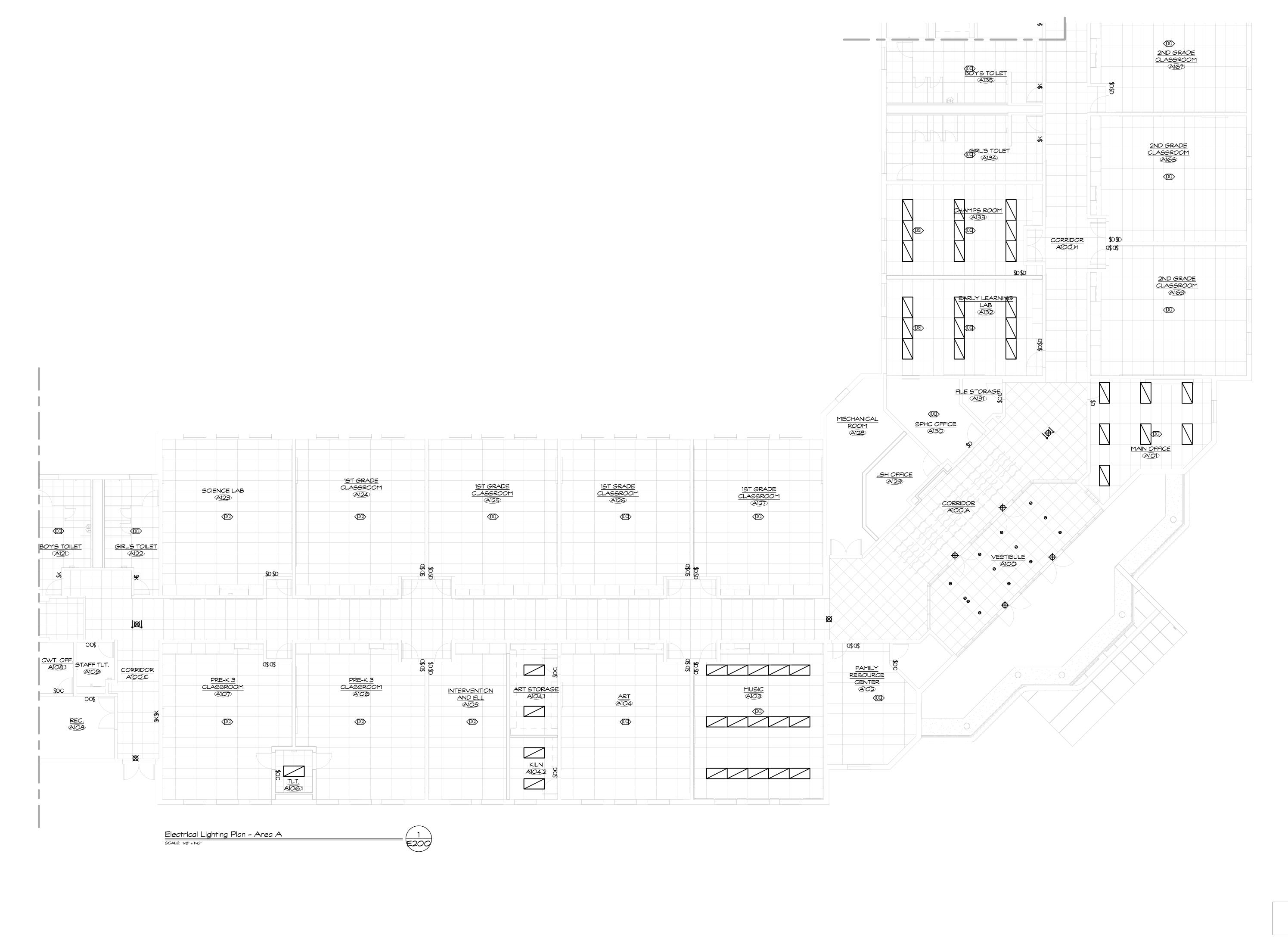
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ELECTRICAL POWER PLAN AREA C

State Project #: 162-0043RNV

Date: Drawing Number: June 30, 2020 Scale: $\frac{1/8"=1"-0"}{Drawn By:}$ MTC $\frac{E 1 02}{B.223}$



Project Title:

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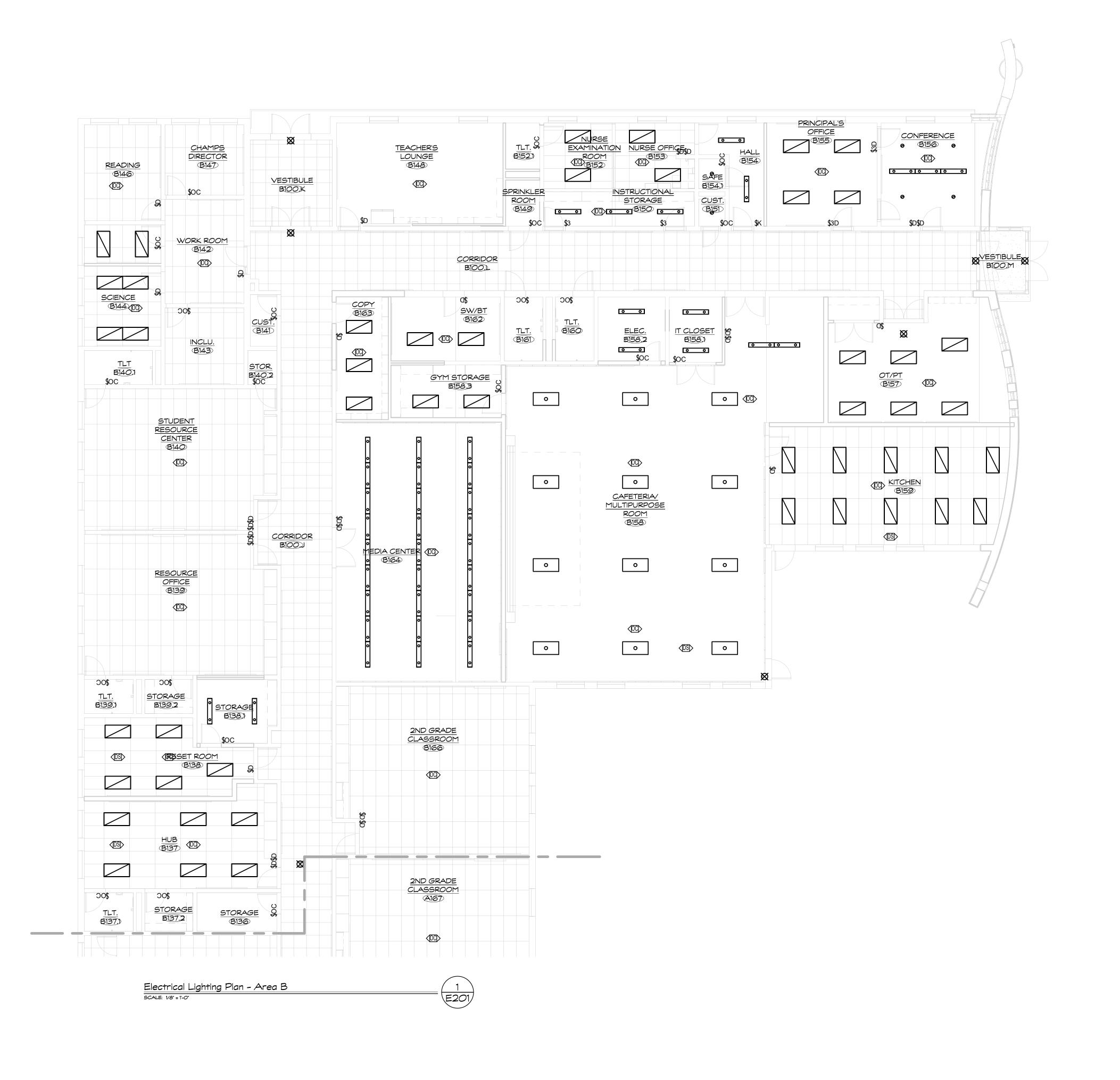
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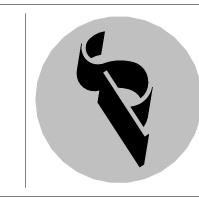
ELECTRICAL LIGHTING PLAN
- AREA A

State Project #: 162-0043RNV



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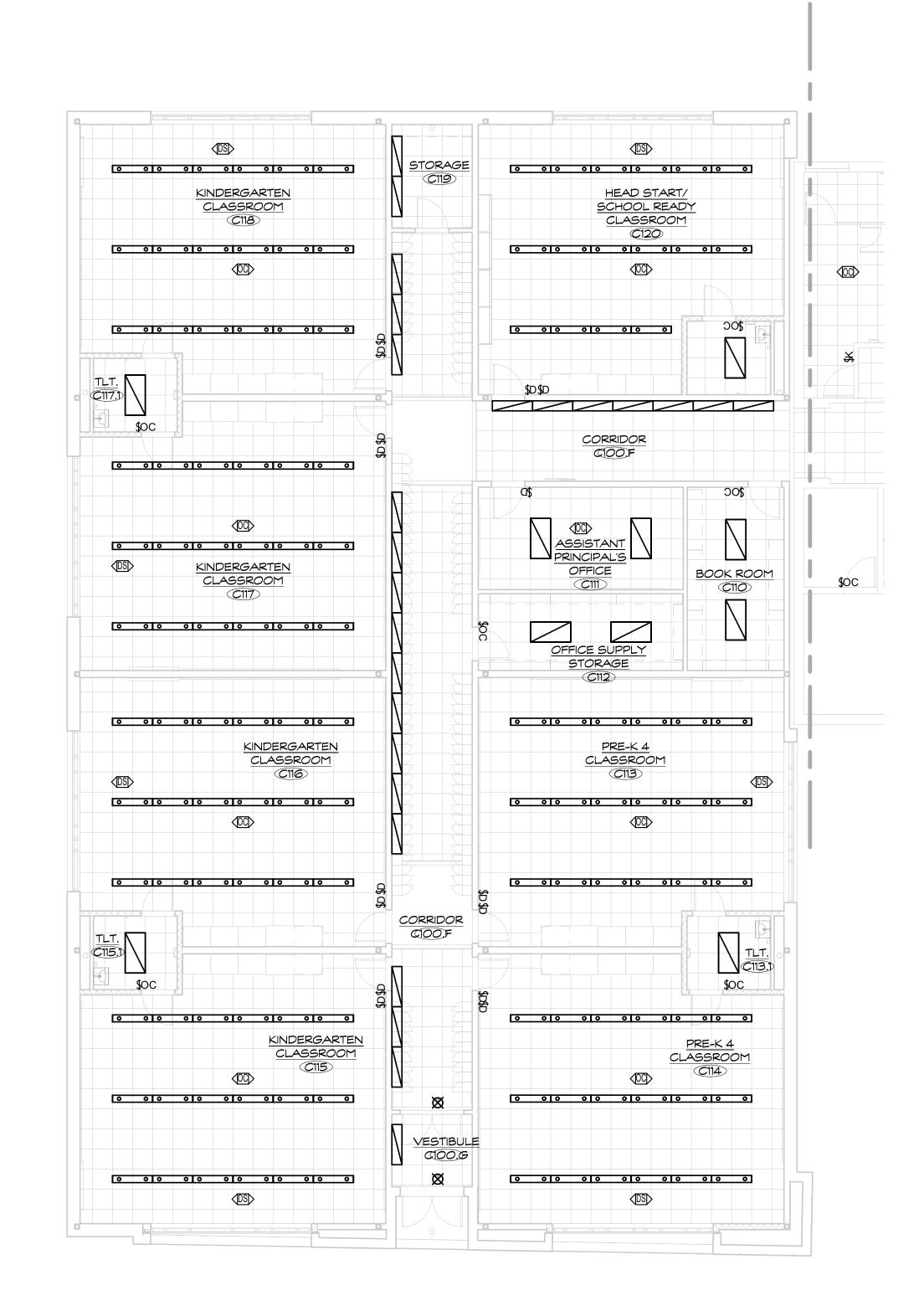
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ELECTRICAL LIGHTING PLAN

- AREA B

State Project #: 162-0043RNV



Project Title:
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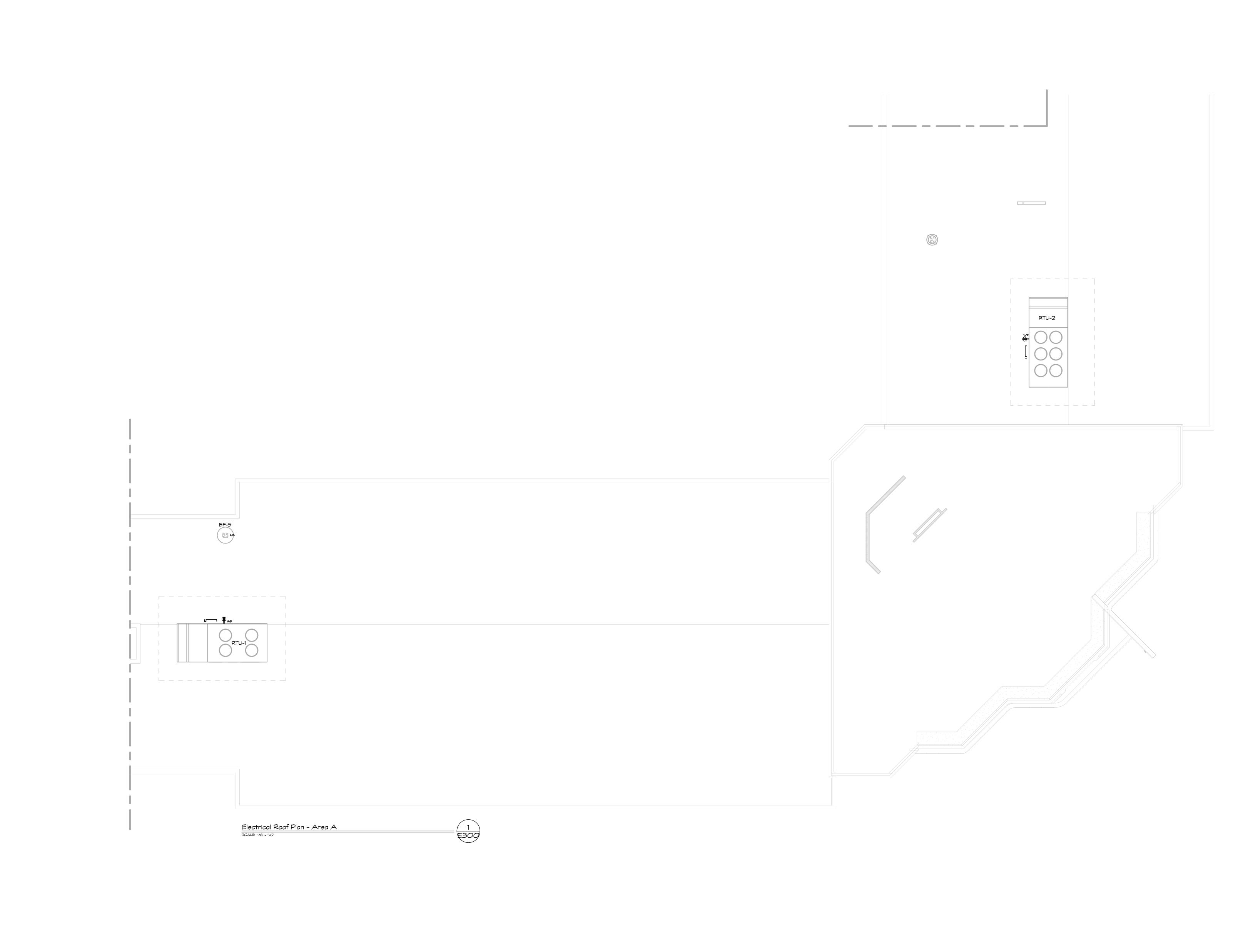
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ELECTRICAL LIGHTING PLAN

- AREA C

State Project #: 162-0043RNV



Project Title:

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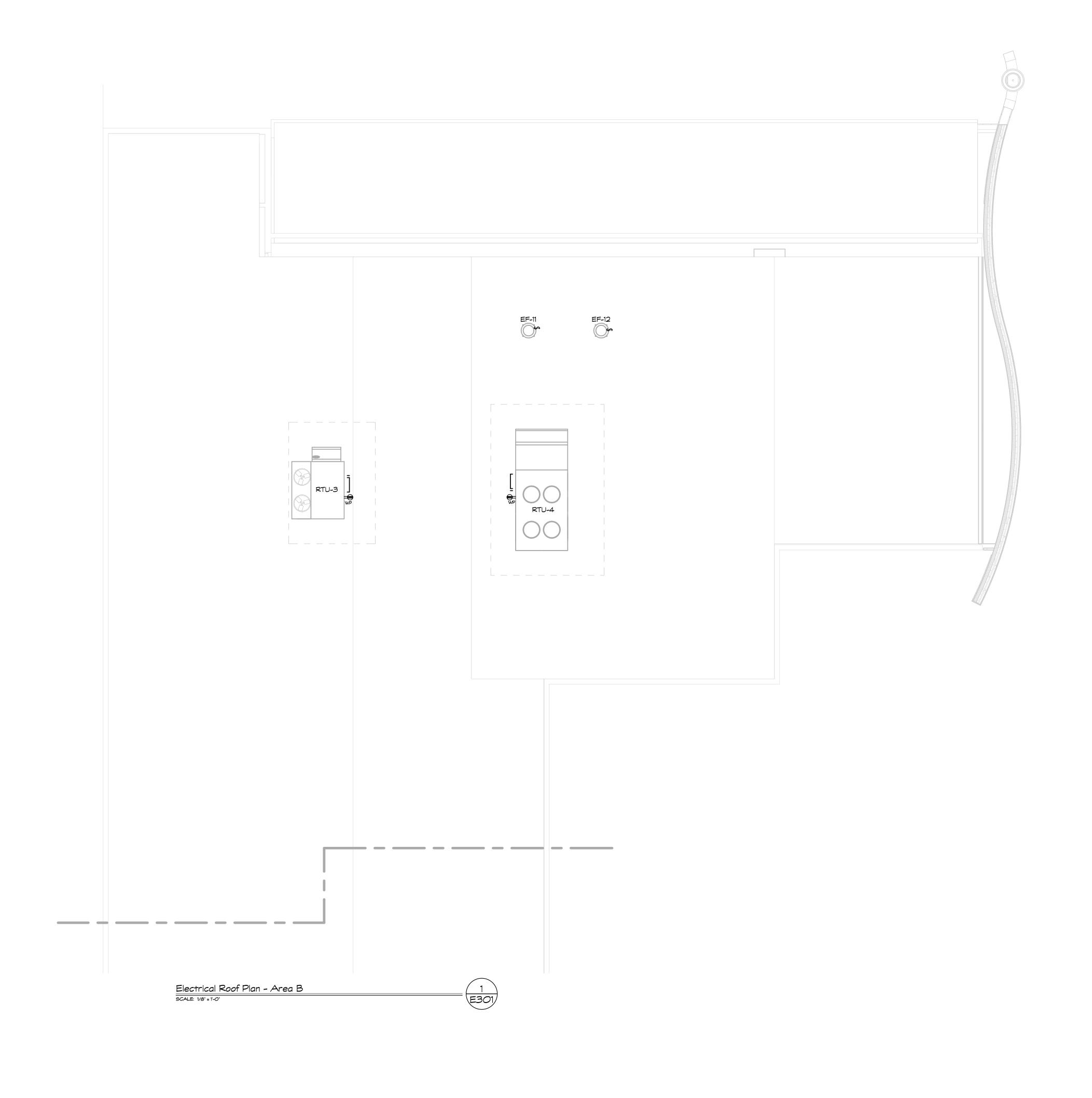
Revised By:

ELECTRICAL ROOF PLAN -AREA A

State Project #: 162-0043RNV

Date: Drawing Number: June 30, 2020

Scale: 1/8" = 1"-0"Drawn By: 18.223Drawing Number: 18.223



Davis Necker

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ELECTRICAL ROOF PLAN AREA B
State Project #: 162-0043RNV

Date:

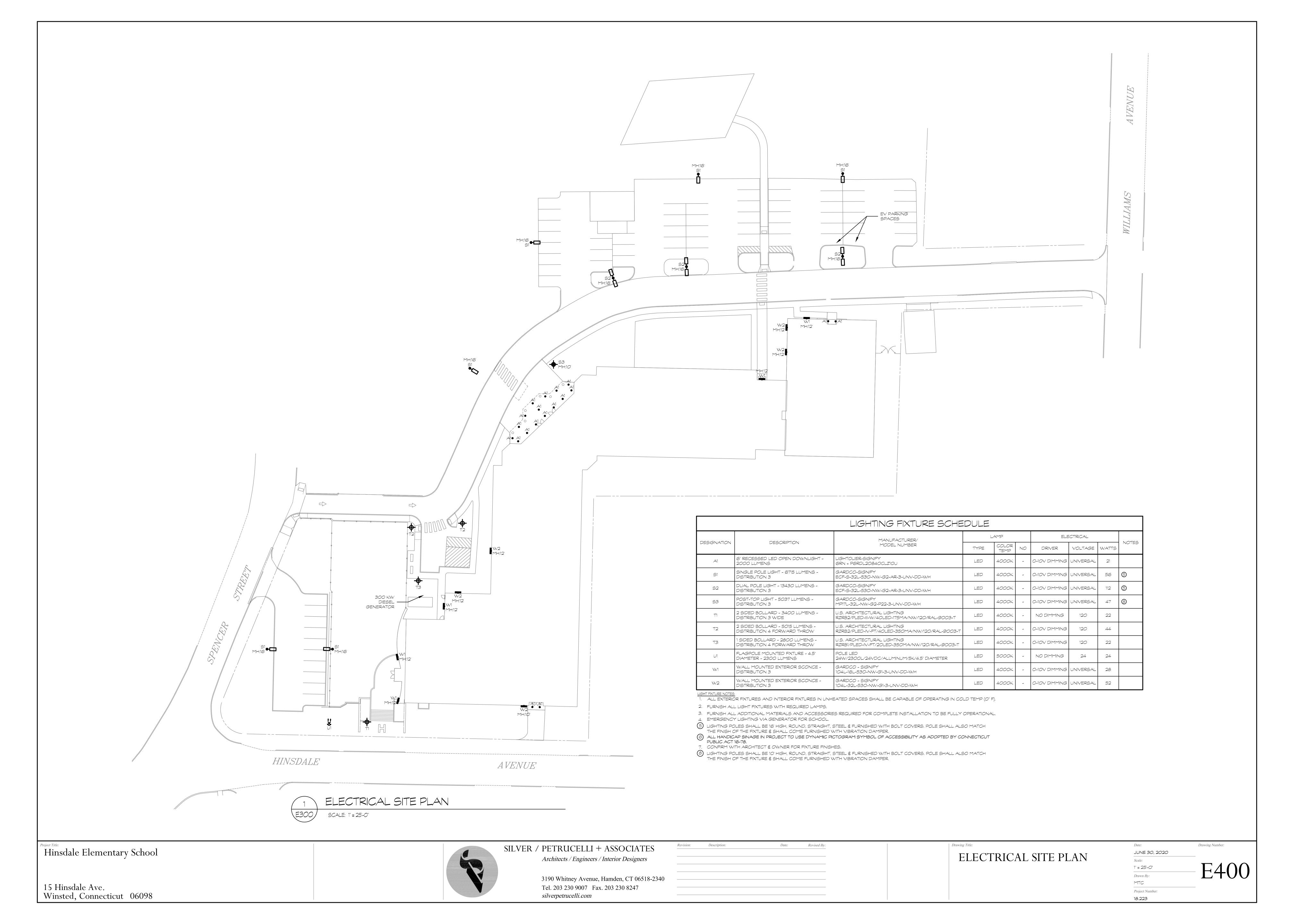
June 30, 2020

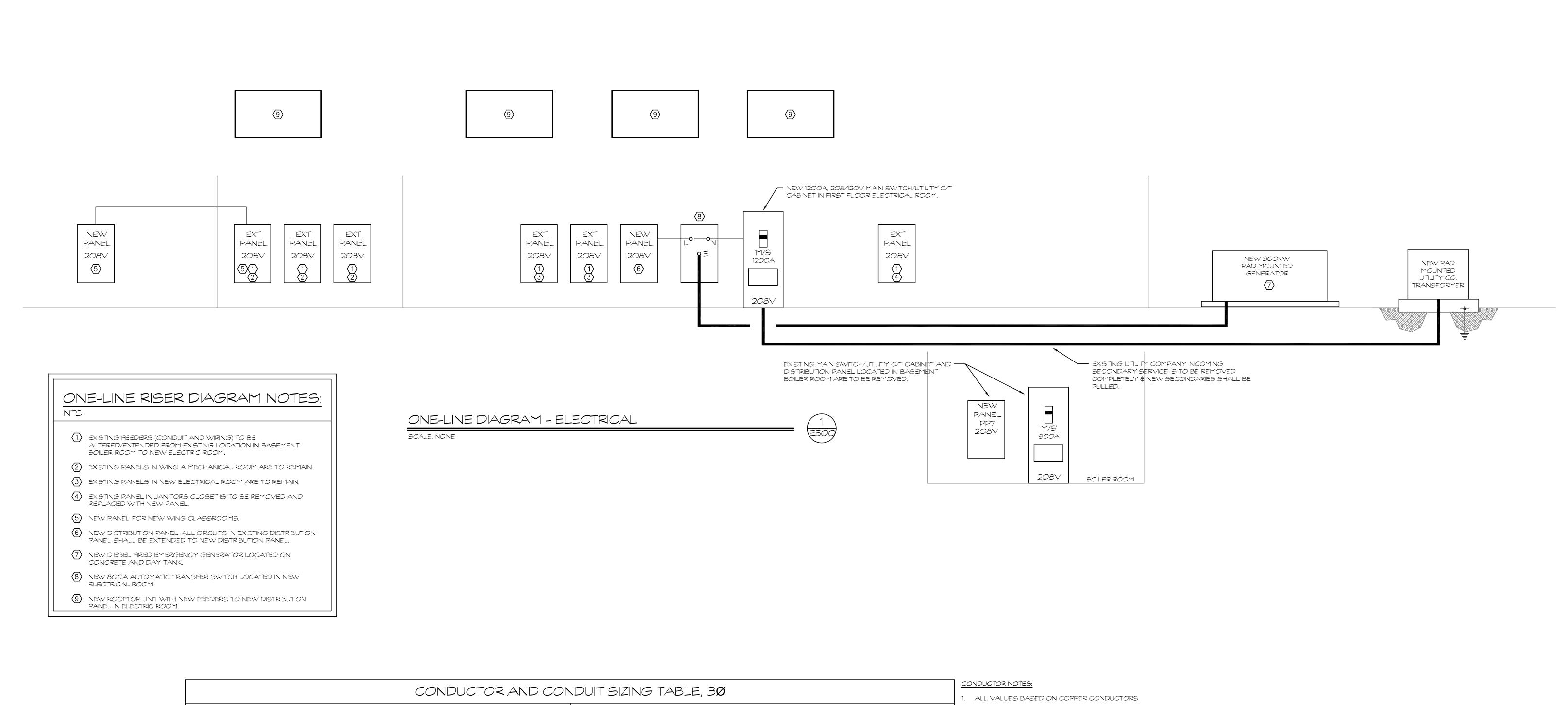
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MTC

Project Number:

18.223





	CONDUCTOR AND CONDUIT SIZING TABLE, 30								
NOTE	CIRCUIT BREAKER	CONDUCTOR (THWN/THHN) (3 PH, 3W) WITH GROUND	CONDUCTOR (THWN/THHN) (3 PH, 4W) WITH GROUND	CONDUIT SIZE	NOTE	CIRCUIT BREAKER	CONDUCTOR (THWN/THHN) (3 PH, 3W) WITH GROUND	CONDUCTOR (THWN/THHN) (3 PH, 4W) WITH GROUND	CONDUIT SIZE
1	20,25 AMP	3 #12 £ 1 #12 GND	4 #12 £ 1 #12 GND	3/4"	11)	225 AMP	3 #4/0 £1 #4 GND	4 #4/0 £1 #4 GND	2 1/2"
2	30,35 AMP	3 #10 £ 1 #10 GND	4 #10 £ 1 #10 GND	3/4"	12	250 AMP	3 #250kcmll £ 1 #4 GND	4 #250kcmll	3"
(3)	40,45,50 AMP	3 #8 £ 1 #10 GND	4 #8 £1 #10 GND	1"	(13)	300 AMP	3 #350kcmil & 1 #4 GND	4 #350kcmil & 1 #4 GND	3 1/2"
4	60 AMP	3 #6 £ 1 #10 GND	4 #6 £1 #10 GND	1"	14	400 AMP	3 #600kcmil & 1 #3 GND	4 #600kcmll & 1 #3 GND	4"
(5)	70,80 AMP	3 #4 £1 #8 GND	4 #4 £ 1 #8 GND	1 1/4"	15	500 AMP	(2 SETS) @ 3 #250kcmll & 1 #2 GND	(2 SETS) @ 4 #250kcmil & 1 #2 GND	(2) 3"
6	90 AMP	3 #3 £1 #8 GND	4 #3 £ 1 #8 GND	1 1/2"	10	600 AMP	(2 SETS) @ 3 #350kcmil & 1 #1 GND	(2 SETS) @ 4 #350kcmil & 1 #1 GND	(2) 3 1/2"
7	100 AMP	3 #2 £ 1 #8 GND	4 #2 £1 #8 GND	1 1/2"		800 AMP	(2 SETS) @ 3 #600kcmil & 1 #1/0 GND	(2 SETS) @ 4 #600kcmll & 1 #1/0 GND	(2) 4"
<u>(8)</u>	125 AMP	3 #1 £ 1 #6 GND	4 #1 £ 1 #6 GND	2"	13	1000 AMP	(3 SETS) @ 3 #400kcmil & 1 #2/0 GND	(3 SETS) @ 4 #400kcmil & 1 #2/0 GND	(3) 3 1/2"
(2)	150 AMP	3 #1/0 £ 1 #6 GND	4 #1/0 £ 1 #6 GND	2"	19	1200 AMP	(4 SETS) @ 3 #350kcmll & 1 #3/0 GND	(4 SETS) @ 4 #350kcmll & 1 #3/0 GND	(4) 3 1/2"
10	200 AMP	3 #3/0 £1 #6 GND	4 #3/0 £1 #6 GND	2 1/2"	2	1600 AMP	(4 SETS) @ 3 #600kcmil & 1 #4/0 GND	(4 SETS) @ 4 #600kcmil & 1 #4/0 GND	(4) 4"

2. <u>FEEDERS</u>
UPGRADE WIRE TO MAINTAIN MAXIMUM OF 2%
VOLTAGE DROP.

BRANCH CIRCUITS UPGRADE WIRE TO MAINTAIN MAXIMUM OF 3% VOLTAGE DROP.

3. NUMBER OF WIRES SHALL BE DETERMINED WITH EQUIPMENT ELECTRICAL NAMEPLATE CHARACTERISTICS.

4. WHERE NEUTRALS ARE REQUIRED, IT SHALL MATCH FEEDER CONDUCTOR SIZE.

Project Title:
Hinsdale Elementary School

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evision:	Description:	Date:	Revised By:

ONE-LINE DIAGRAM ELECTRICAL

Date:

JUNE 30, 2020

Scale:

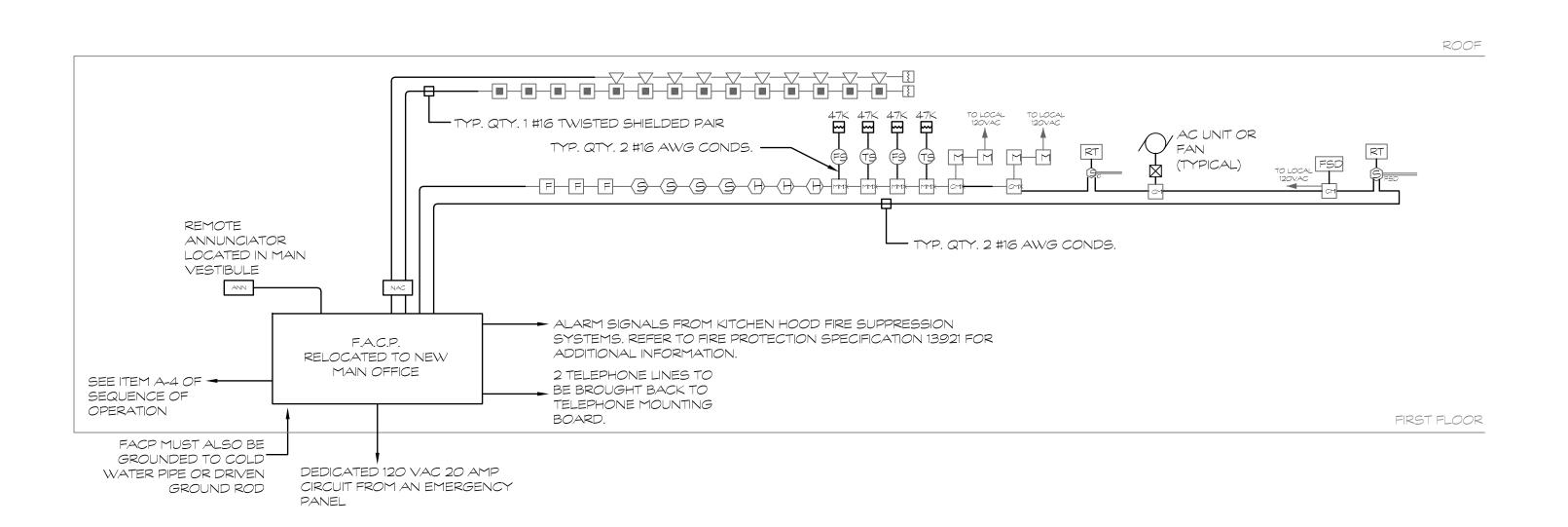
AS NOTED

Drawn By:

MTC

Project Number:

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SEQUENCE OF OPERATION

- A. THE SYSTEM ALARM OPERATION SUBSEQUENT TO THE ALARM
- OR SPRINKLER FLOW SWITCH IS TO BE AS FOLLOWS: 1. ALL AUDIBLE ALARM INDICATING APPLIANCES SHALL SOUND A DIGITIZED TONE AND VOICE MESSAGE UNTIL SILENCED BY THE

ALARM SILENCE SWITCH AT THE CONTROL PANEL.

ACTIVATION OF ANY MANUAL STATION, AUTOMATIC DETECTION DEVICE,

- 2. ALL VISUAL ALARM INDICATING APPLIANCES (XENON STROBES) SHALL DISPLAY A CONTINUOUS PATTERN UNTIL EXTINGUISHED BY THE ALARM SILENCE SWITCH.
- 3. ALL DOORS NORMALLY HELD OPEN BY DOOR CONTROL DEVICES SHALL RELEASE.
- 4. A SUPERVISED SIGNAL TO NOTIFY AN APPROVED CENTRAL STATION MONITORING SYSTEM SHALL BE ACTIVATED.
- 5. ALL AIR HANDLING SYSTEMS (2000 CFM OR GREATER) WITH DUCT MOUNTED SMOKE DETECTION SHALL BE AUTOMATICALLY SHUTDOWN.
- 6. FIRE ALARM SYSTEM SHALL PROVIDE GENERAL ALARM SIGNAL TO BMS SYSTEM WITH INDICATION THRU THE FACP OF THE STATUS OF EACH DAMPER.
- 7. FIRE ALARM SYSTEM SHALL PROVIDE AN INTERFACE WITH THE LOCAL SOUND/PAGING SYSTEM TO MUTE THEM OUT DURING AN
- 8. UPON RESTORATION OF THE FIRE ALARM SYSTEM FOLLOWING AN ALARM THE SYSTEM SHALL PROVIDE A SIGNAL TO THE BMS FOR SYSTEM RESET.
- 9. ALARMS SHALL BE DISPLAYED ON THE PANEL DISPLAY. THE ALARM LED SHALL FLASH ON THE CONTROL PANEL UNTIL THE ALARM HAS BEEN ACKNOWLEDGED AT THE CONTROL PANEL. ONCE ACKNOWLEDGED, THIS SAME LED SHALL LATCH ON. A SUBSEQUENT ALARM RECEIVED FROM ANOTHER ZONE AFTER ACKNOWLEDGED SHALL FLASH THE ALARM LED ON THE CONTROL PANEL AND THE PANEL DISPLAY SHALL SHOW THE NEW ALARM INFORMATION. A PULSING ALARM TONE SHALL OCCUR WITHIN THE CONTROL PANEL AND THE REMOTE ANNUNCIATOR UNTIL ACKNOWLEDGED.

- . THE CONTROL PANEL SHALL HAVE A DEDICATED SUPERVISORY SERVICE LED AND A DEDICATED SUPERVISORY SERVICE ACKNOWLEDGE SWITCH.). THE ACTIVATION OF ANY STANDPIPE OR SPRINKLER VALVE TAMPER SWITCH SHALL ACTIVATE THE SYSTEM SUPERVISORY SERVICE AUDIBLE
- SIGNAL AND ILLUMINATE THE LED AT THE CONTROL PANEL. 1. ACTIVATING THE SUPERVISORY SERVICE ACKNOWLEDGE SWITCH WILL SILENCE THE SUPERVISORY AUDIBLE SIGNAL WHILE MAINTAINING THE SUPERVISORY SERVICE LED ON INDICATING THE TAMPER CONTACT IS STILL IN THE OFF-NORMAL STATE.
- 2. RESTORING THE VALVE TO THE NORMAL POSITION SHALL CAUSE THE SUPERVISORY SERVICE LED TO EXTINGUISH THUS INDICATING RESTORATION TO NORMAL POSITION.

ALARM AND TROUBLE CONDITIONS SHALL BE IMMEDIATELY DISPLAYED ON THE CONTROL PANEL FRONT ALPHANUMERIC DISPLAY. IF MORE

- ALARMS OR TROUBLES ARE IN THE SYSTEM THE OPERATOR MAY SCROLL TO DISPLAY NEW ALARMS. THE SYSTEM SHALL HAVE AN ALARM LIST KEY THAT WILL ALLOW THE OPERATOR TO DISPLAY ALL ALARMS, TROUBLES, AND SUPERVISORY
- SERVICE CONDITIONS WITH THE TIME OF OCCURRENCE.
- FIRE SMOKE DAMPER DUCT DETECTORS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE HVAC CONTRACTOR. UPON SMOKE DETECTION THE DUCT DETECTOR SHALL NOTIFY THE FACP WHICH IN TURN WILL ACTIVATE A CONTROL RELAY TO SHUTDOWN THE AC UNIT ASSOCIATED WITH THE PARTICULAR FIRE SMOKE DAMPER. 120 VOLTS SHALL BE CONNECTED TO THE CONTROL RELAY FROM A LOCAL 120 VOLT SOURCE AS INDICATED ON THE DRAWINGS.

FIRE ALARM NOTES

- REFER TO PLANS FOR QUANTITIES AND LOCATIONS OF ALL DEVICES. ALL FIRE ALARM DEVICES SHALL BE WIRED VIA ADDRESSABLE LOOPS FROM THE FIRE ALARM PANEL PER MANUFACTURER'S RECOMMENDATIONS. LEAVE SPACE FOR THE ADDITION OF 10 FUTURE DEVICES PER LOOP MINIMUM.
- . ALL FIRE ALARM WIRING THAT IS RUN EXPOSED SHALL BE RUN IN EMT CONDUIT, WHEN RUN CONCEALED ABOVE CEILINGS OR IN WALLS PLENUM RATED CABLE IS ALLOWED WHERE APPROVED BY AHJ.
- ALL FIRE ALARM SYSTEM POWER SUPPLIES SHALL BE POWERED VIA CIRCUIT BREAKERS IN LOCAL EMERGENCY PANEL. PROVIDE ALL SUCH CIRCUIT BREAKERS WITH LOCKING HANDLES.
- THE FIRE ALARM PANEL SHALL SEND A SIGNAL TO THE BMS SYSTEM INDICATING THAT A FIRE ALARM CONDITION HAS OCCURRED.
- MOUNTED DUPLEX RECEPTACLE.

5. THE FIRE ALARM CONTROL PANEL SHALL BE PROVIDED WITH AN INTEGRAL

- TABS MUST BE BROKEN ON CMX WHEN USED AS A RELAY. FAILURE TO DO SO WILL CAUSE DAMAGE TO EQUIPMENT. . RISER DIAGRAM INDICATES TYPICAL WIRING REQUIREMENTS ONLY, REFER
- FOR EXACT REQUIREMENTS AND FLOOR PLANS FOR QUANTITIES. 9. CONTRACTOR SHALL PROVIDE POWER TO ALL DEVICES FROM LOCAL

TO SPECIFICATIONS AND MANUFACTURERS INSTALLATION INSTRUCTIONS

- O. FIRE SPEAKERS AND STROBES SHALL BE WIRED VIA VOICE EVACUATION LOOPS AS SCHEDULED ON THIS DRAWING.
- ALL FIRE ALARM DEVICES SHALL BE WIRED VIA ADDRESSABLE LOOPS FROM THE FIRE ALARM DGP'S PER MANUFACTURER'S RECOMMENDATIONS. LEAVE SPACE FOR THE ADDITION OF 10 FUTURE DEVICES PER LOOP
- 12. ALL WIRING FOR FIRE ALARM SYSTEM DEVICES SHALL BE RUN IN EMT CONDUIT THROUGHOUT BUILDING OR FIRE ALARM CABLE AS APPROVED BY LOCAL AHJ.
- 3. ALL DOORS ON MAGNETIC HOLD-OPENS SHALL BE RELEASED AUTOMATICALLY UPON ANY FIRE ALARM CONDITION. ALL GAS SOLENOID VALVES SHALL CLOSE UPON ANY FIRE ALARM CONDITION, REFER TO FLOOR PLANS FOR LOCATIONS.
- -. AFTER DATE OF SUBSTANTIAL COMPLETION, CONTRACTOR SHALL TEST THE FIRE ALARM SYSTEM COMPLYING WITH TESTING AND VISUAL INSPECTION REQUIREMENTS IN NFPA 72. CONTRACTOR SHALL SUPPLEMENT AUDIBLE DEVICES TO MEET CODE SOUND LEVELS.

F	PULL STATION
S	SMOKE DETECTOR
$\overline{+}$	HEAT DETECTOR
MMX	MONITOR MODULE
CMX	CONTROL MODULE
	SPEAKER/STROBE
III	STROBE LIGHT
ANN	REMOTE ANNUNCIATOR PANEL
1	END OF LINE RESISTOR
M	MAG. DOOR HOLDER
F	FLOW SWITCH
T9	TAMPER SWITCH

CARBON MONOXIDE DETECTOR

NOTIFICATION APPLIANCE CIRCUIT

DUCT SMOKE DETECTOR

FIRE SMOKE DAMPER

FIRE SMOKE DAMPER

BOOSTER PANEL REMOTE TEST SWITCH

DETECTOR

FSD

FIRE ALARM RISER DIAGRAM

SCALE: NONE



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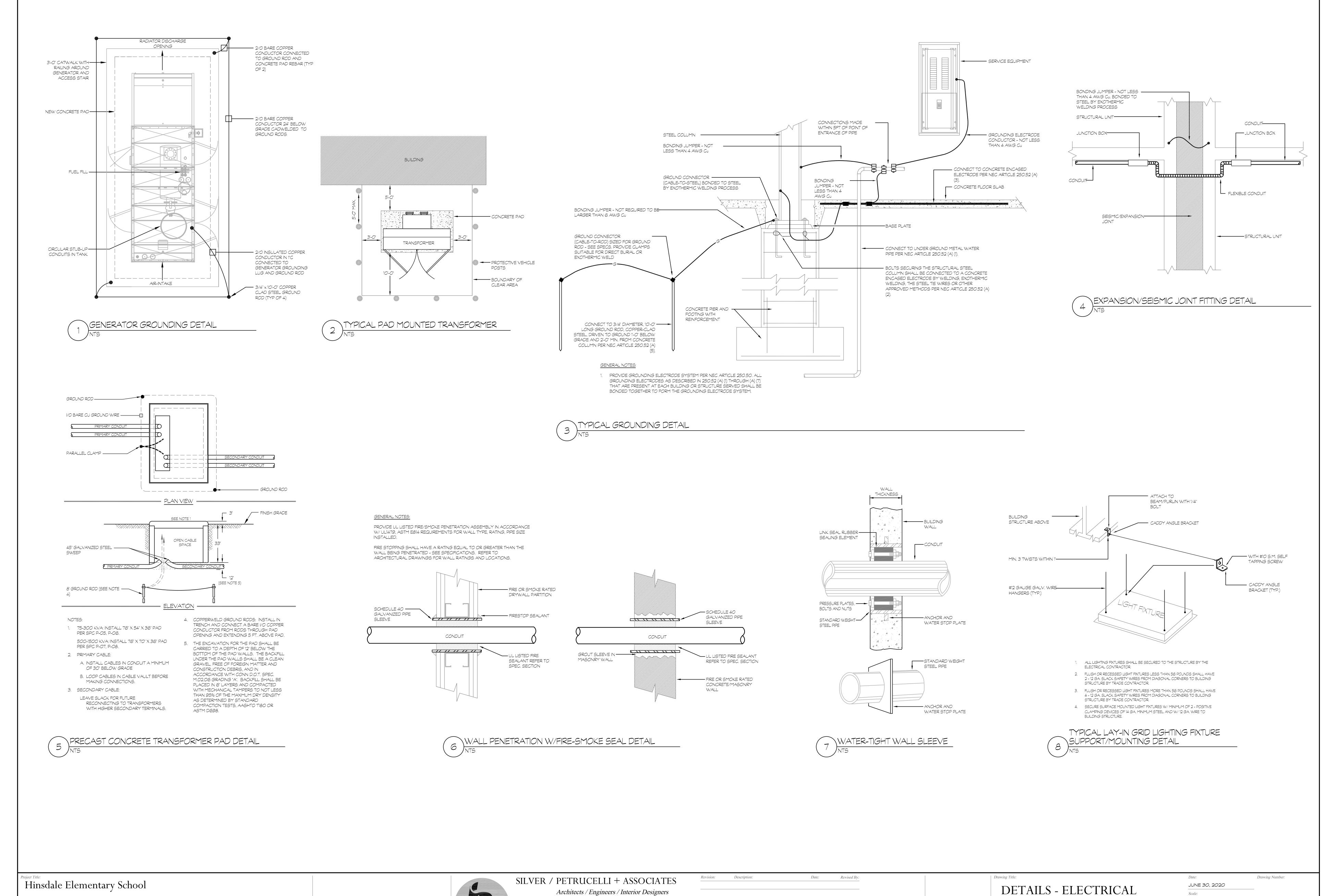
Revision: Description: Date: Revised By:

FIRE ALARM RISER DIAGRAM

Date: Drawing Number: JUNE 30, 2020 1/8"=1'-0" Drawn By: MTC Project Number: 18.223

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1/8"=1'-0"

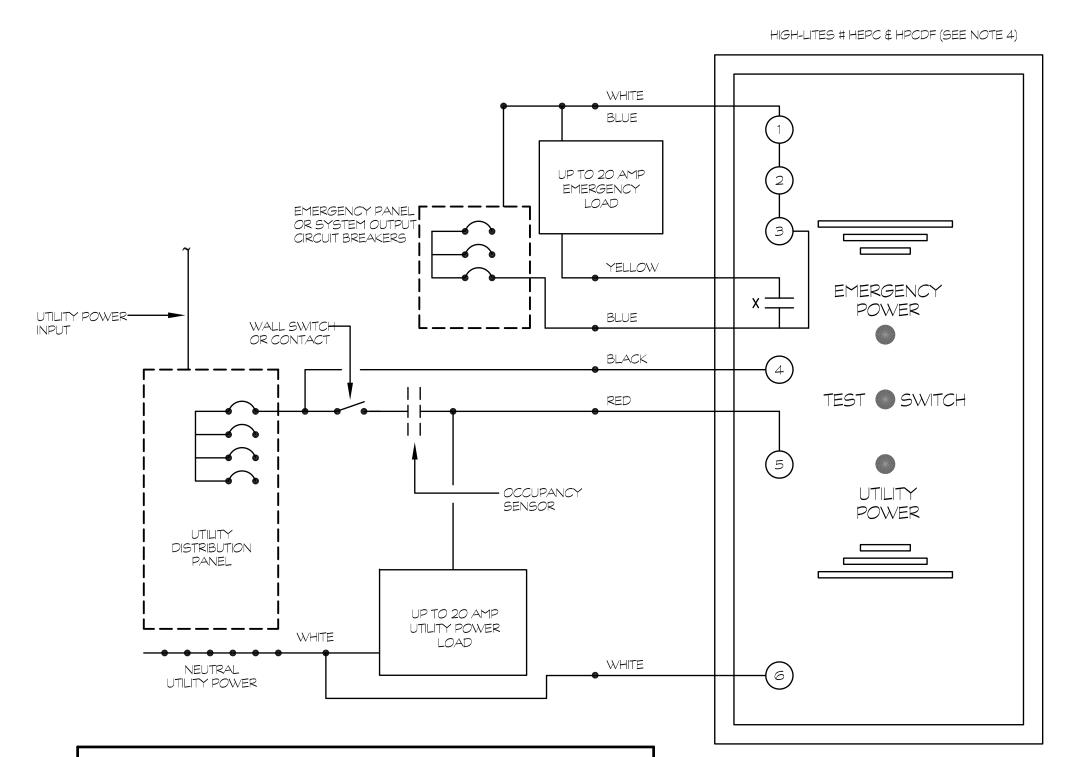
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AREA OF

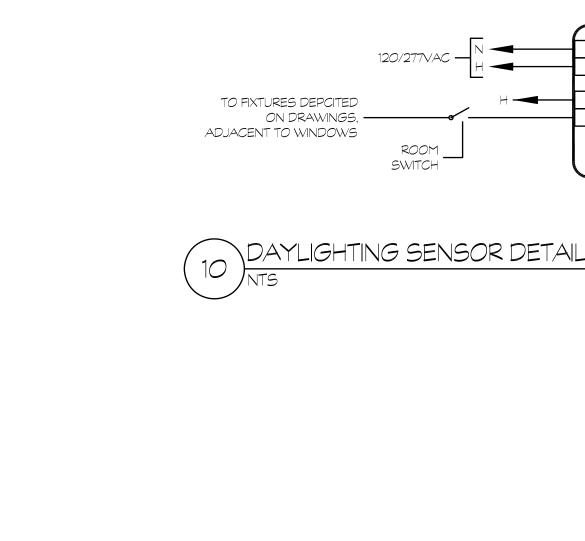
REFUGE

BY-PASS RELAY NOTES

CIRCUIT #10 2 3 MONITOR THE 24 HOUR EMERGENCY PANEL POWER, ANY INTERRUPTION OF THE EMERGENCY POWER WILL GENERATE AN AUDIBLE ALARM AT THE EPC DEVICE (BY LVS).

- CIRCUIT # $oldsymbol{4}oldsymbol{6}$ MONITORS UTILITY POWER AND PROVIDES POWER TO THE AUDIBLE DEVICE. ANY INTERRUPTION WILL CLOSE CONTACT X.
- CIRCUIT #igotimes SENSES WHEN ROOM SWITCH IS ON AND THEN CLOSES CONTACT X, PROVIDING POWER TO THE EMERGENCY LOAD.
- PROVIDE HIGH-LITES 'HEPCDF' SERIES EMERGENCY LIGHTING POWER CONTROL FOR DIMMABLE FIXTURES. VERIFY EXACT QUANTITY AND LOCATION WITH LIGHTING PLANS.
- ALL ROOMS WITH FIXTURES WIRED TO THE LIFE SAFETY DISTRIBUTION SYSTEM SHALL HAVE A BY-PASS RELAY INSTALLED IN CONJUNCTION WITH CONTROL DEVICE. VERIFY QUANTITY WITH LIGHTING PLANS.





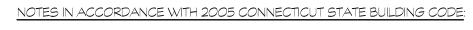
SENSOR

CEILING MOUNT POINT TOWARDS DAYLIGHT

SWITCH :

3 CONDUCTOR 22 AWG, CLASS 2

POWER PACK



TO EXITS SHALL BE MARKED BY READILY VISIBLE EXIT SIGNS IN CASES WHERE THE EXIT OR THE PATH OF EGRESS TRAVEL IS NOT IMMEDIATELY VISIBLE TO THE OCCUPANTS. EXIT SIGN PLACEMENT SHALL BE SUCH THAT NO POINT IN AN EXIT ACCESS CORRIDOR IS MORE THAN 100 FEET OF THE LISTED VIEWING DISTANCE FOR THE SIGN, WHICH IS LESS, FROM THE NEAREST VISIBLE EXIT SIGN.

ILLUMINATION.

B CT 2009 AMENDMENT
SECTION 1011.1.2 ACCESSIBLE EXITS: WHERE EXIT SIGNS ARE REQUIRED BY SECTION 1011.1 OF THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. SUCH SYMBOL SHALL BE NOT LESS THAN 6 INCHES HIGH AND SHALL BE INCORPORATED INTO THE REQUIRED EXIT SIGN OR SHALL BE LOCATED DIRECTLY ADJACENT TO IT. SUCH SYMBOL SHALL MEET THE REQUIREMENTS OF

C SECTION 1007.6.5: IDENTIFICATION. EACH DOOR PROVIDING ACCESS TO AN AREA OF REFUGE FROM AN ADJACENT FLOOR AREA SHALL BE IDENTIFIED BY A SIGN COMPLYIN REFUGE FROM AN ADJACENT FLOOR AREA SHALL BE IDENTIFIED BY A SIGN COMPLYING

ADDITIONALLY, TACTILE SIGNAGE COMPLYING WITH ICC A117.1 SHALL BE LOCATED AT EACH DOOR TO AN AREA OF REFUGE. (TACTILE AND BRAILLE IS REQUIRED ON TACTILE SIGNAGE. ANSI A117.1-2003. 703.3 AND 703.4).

AN EXIT PASSAGEWAY AND THE EXIT DISCHARGE. (TACTILE AND BRAILLE IS REQUIRED ON TACTILE SIGNAGE. ANSI A117.1-2003. 703.3 AND 703.4). SECTION 1110.4: INTERIOR SIGNAGE. INTERIOR SIGNS DESIGNATE PERMANENT ROOMS AND SPACES SHALL BE RAISED TEXT CHARACTERS AND BRAILLE, DESIGNED AND LOCATED IN

ACCORDANCE WITH ICC/ANSI. A117.1-2003. MOUNTING LOCATION FOR SIGNAGE SHALL BE SUCH THAT ANY PERSON APPROACHING THE SIGNAGE WILL NOT ENCOUNTER PROTRUDING OBJECTS,, OR STAND WITHIN THE SWING OF ANY DOOR. (STAIR INFORMATION SIGNAGE IS REQUIRED IN TACTILE AND BRAILLE. ANSI A117.1-2003. 703.3 AND 703.4)

CT 2005 AMENDMENT SECTION 1011.1.1: LOCATION AND ILLUMINATION. FLOOR PROXIMITY EXIT SIGNS SHALL BE LOCATED WITH THE BOTTOM OF THE SIGN NOT LESS THAN 6 INCHES NOR MORE THAN 18 INCHES ABOVE THE FINISHED FLOOR. THE SIGNS SHALL BE LOCATED ON THE DOOR OR ADJACENT TO THE DOOR WITH THE NEAREST EDGE WITHIN 4 INCHES OF THE DOOR. FLOOR PROXIMITY EXIT SIGNS SHALL BE ILLUMINATED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1011.4 OR SECTION 1011.5 OF THIS CODE. NON POWERED PHOTOLUMINESCENT SIGNS SHALL BE ACCEPTABLE.



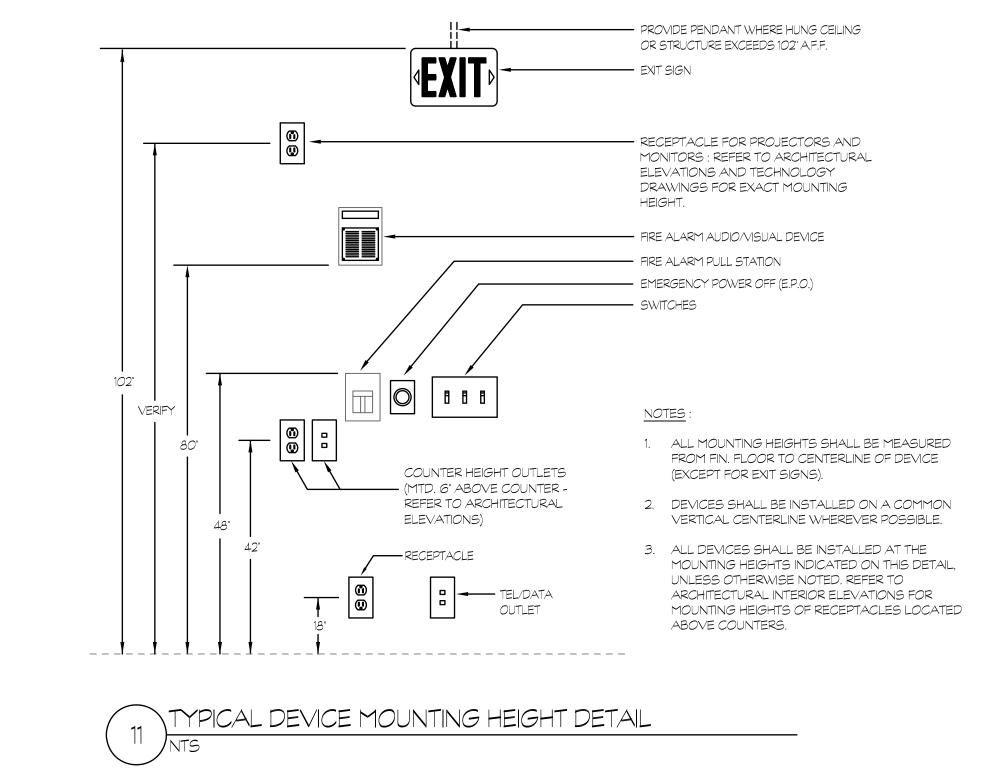
SECTION 1011.1: WHERE REQUIRED. EXITS AND EXIT ACCESS DOORS SHALL BE MARKED BY AN APPROVED EXIT SIGN READILY VISIBLE FROM ANY DIRECTION OF FORTAL

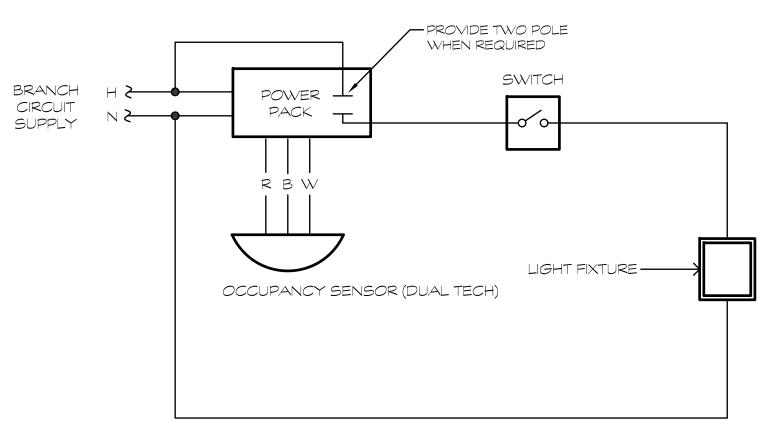
SECTION 1011.2: ILLUMINATION. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY EXCEPTION: TACTILE SIGNS REQUIRED BY SECTION 1011.3 NEED NOT BE PROVIDED WITH

THIS CODE, ACCESSIBLE EXIT DOORS AT THE LEVEL OF EXIT DISCHARGE THAT LEAD DIRECTLY TO ACCESSIBLE PATHS OF EXIT DISCHARGE SHALL ADDITIONALLY BE MARKED BY

WITH ICC A117.1, STATING: AREA OF REFUGE AND INCLUDING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. WHERE EXIT SIGN ILLUMINATION IS REQUIRED BY SECTION 1011.2, THE AREA OF REFUGE SIGN SHALL BE ILLUMINATED.

SECTION 1011.3: TACTILE EXIT SIGNS. A TACTILE EXIT SIGN STATING EXIT AND COMPLYING WITH ICC A117.1 SHALL BE PROVIDED ADJACENT TO EACH DOOR TO AN EGRESS STARWAY,

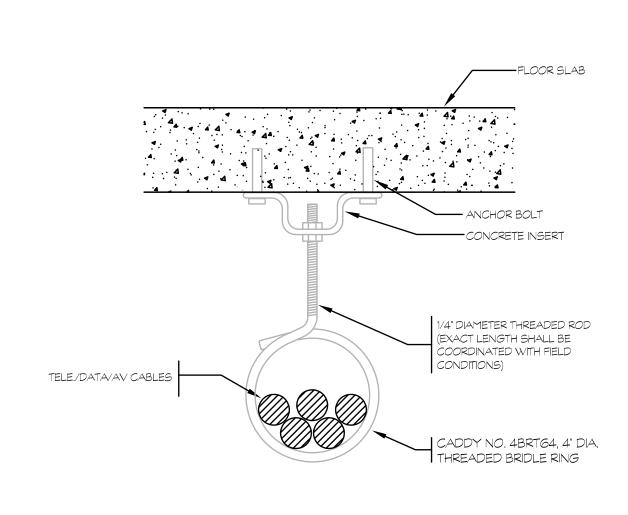




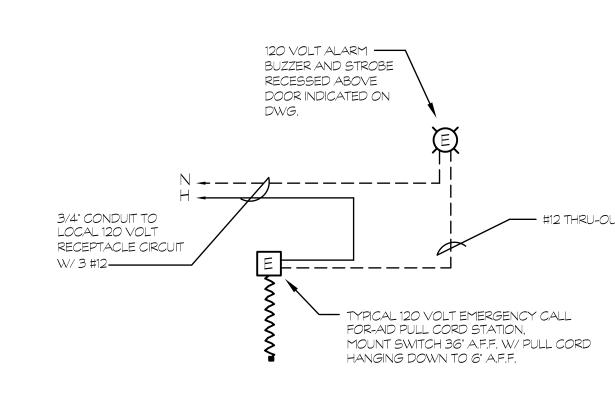


1. TYPICAL CEILING OCCUPANCY SENSOR FOR CORRIDORS AND ROOMS.

2. EXACT QUANTITY OF DEVICES MAY DIFFER FROM THIS DETAIL CONTRACTOR SHALL PROVIDE ACTUAL QUANTITY REQUIRED. REFER TO LIGHTING FLOOR PLAN.







3 CONDUCTOR

___ 18 AWG, CLASS 2

SENSOR

HANDICAPPED CALL-FOR-AID SYSTEM

XEXIT SIGN MOUNTING DETAIL

TACTILE & BRAILLE

AREA OF REFUGE

48"MIN.-60"MAX.

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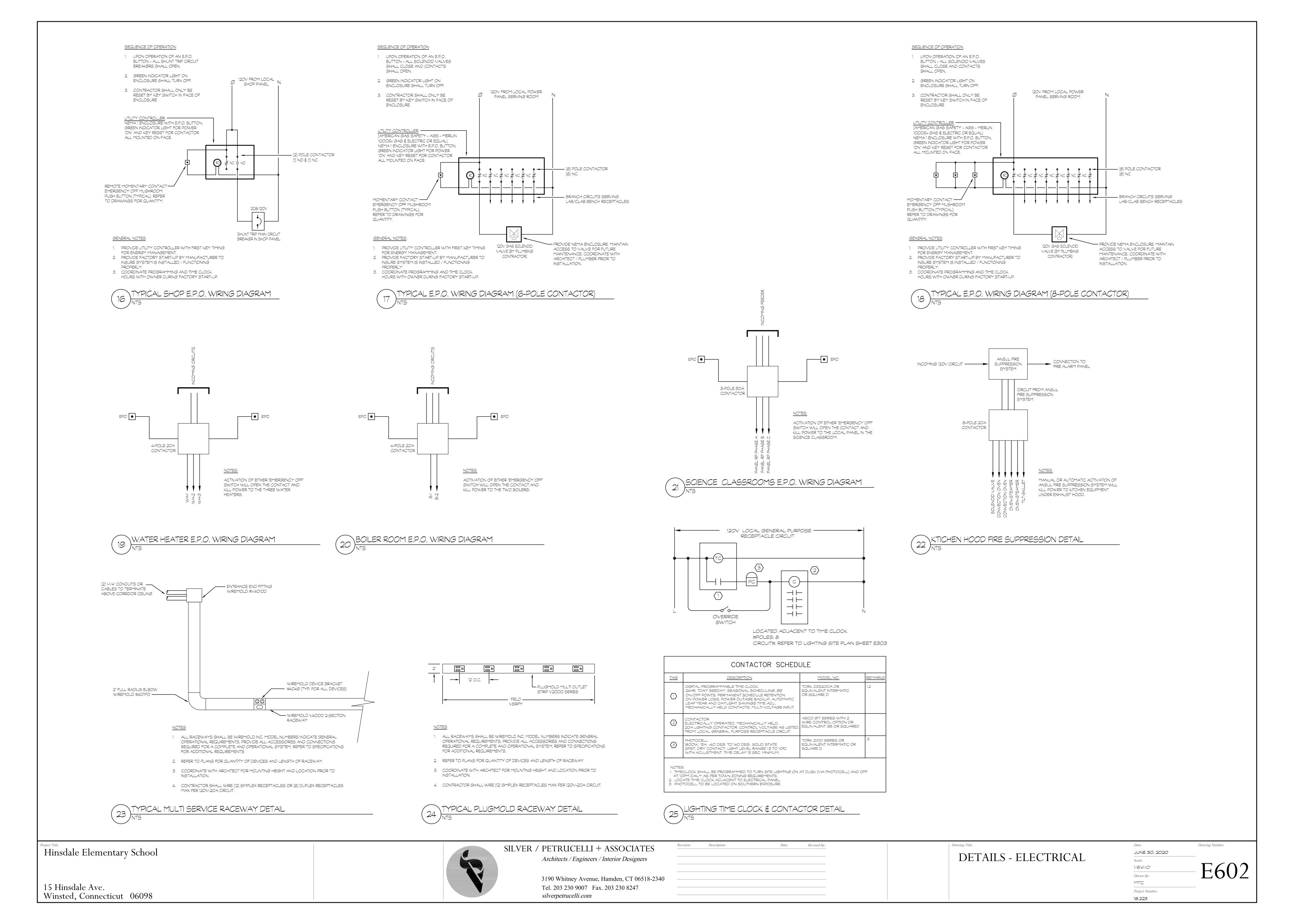
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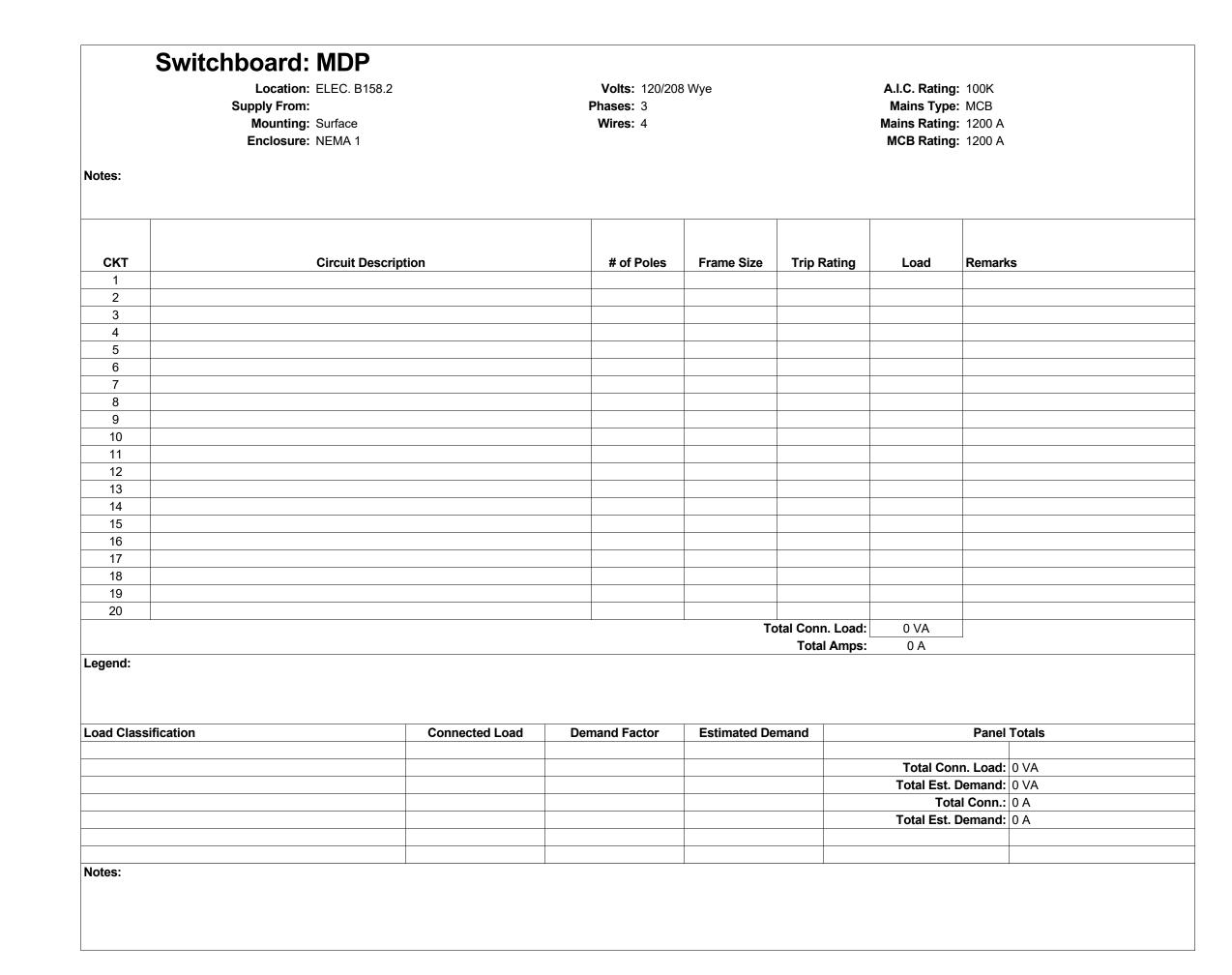
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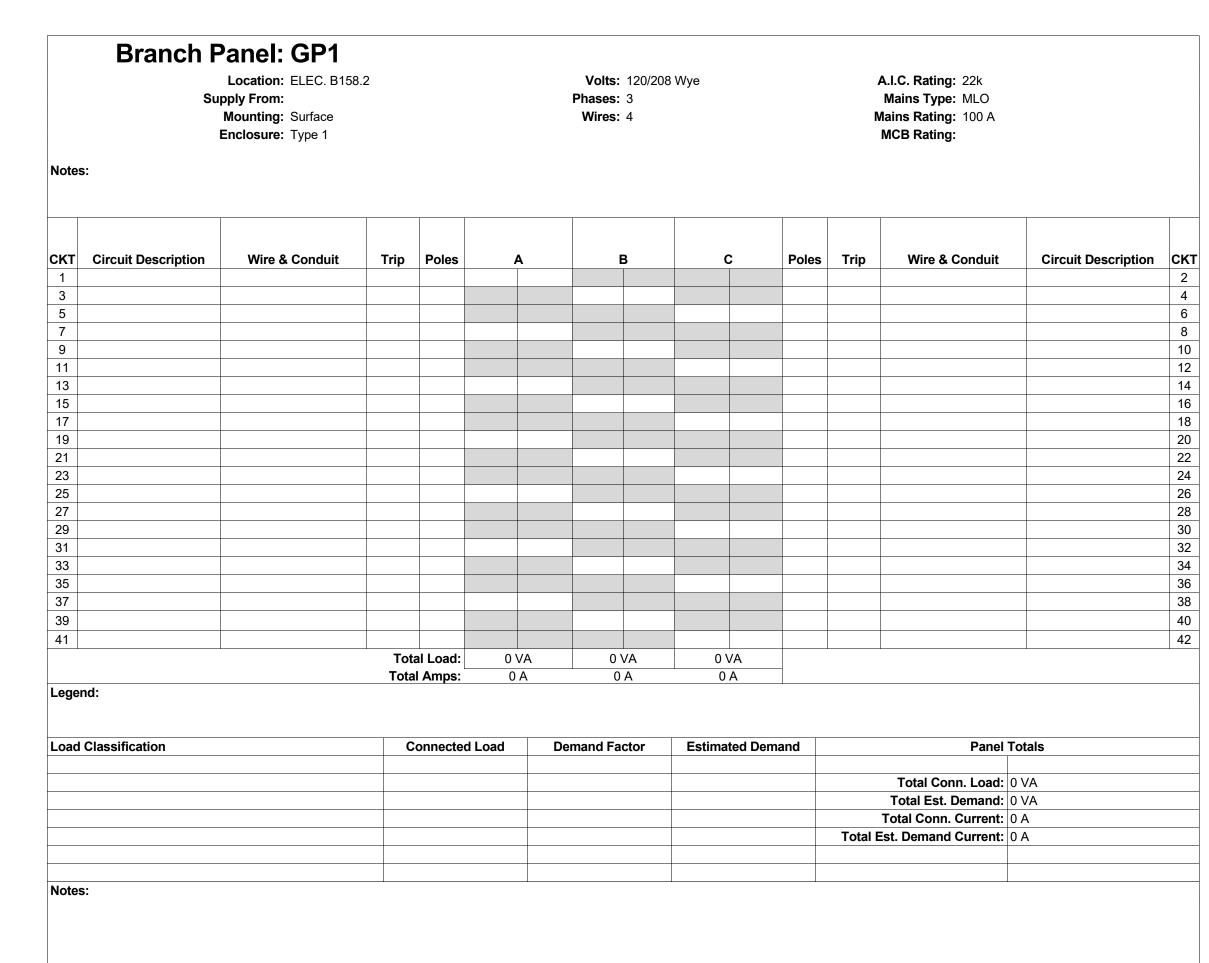
DETAILS - ELECTRICAL

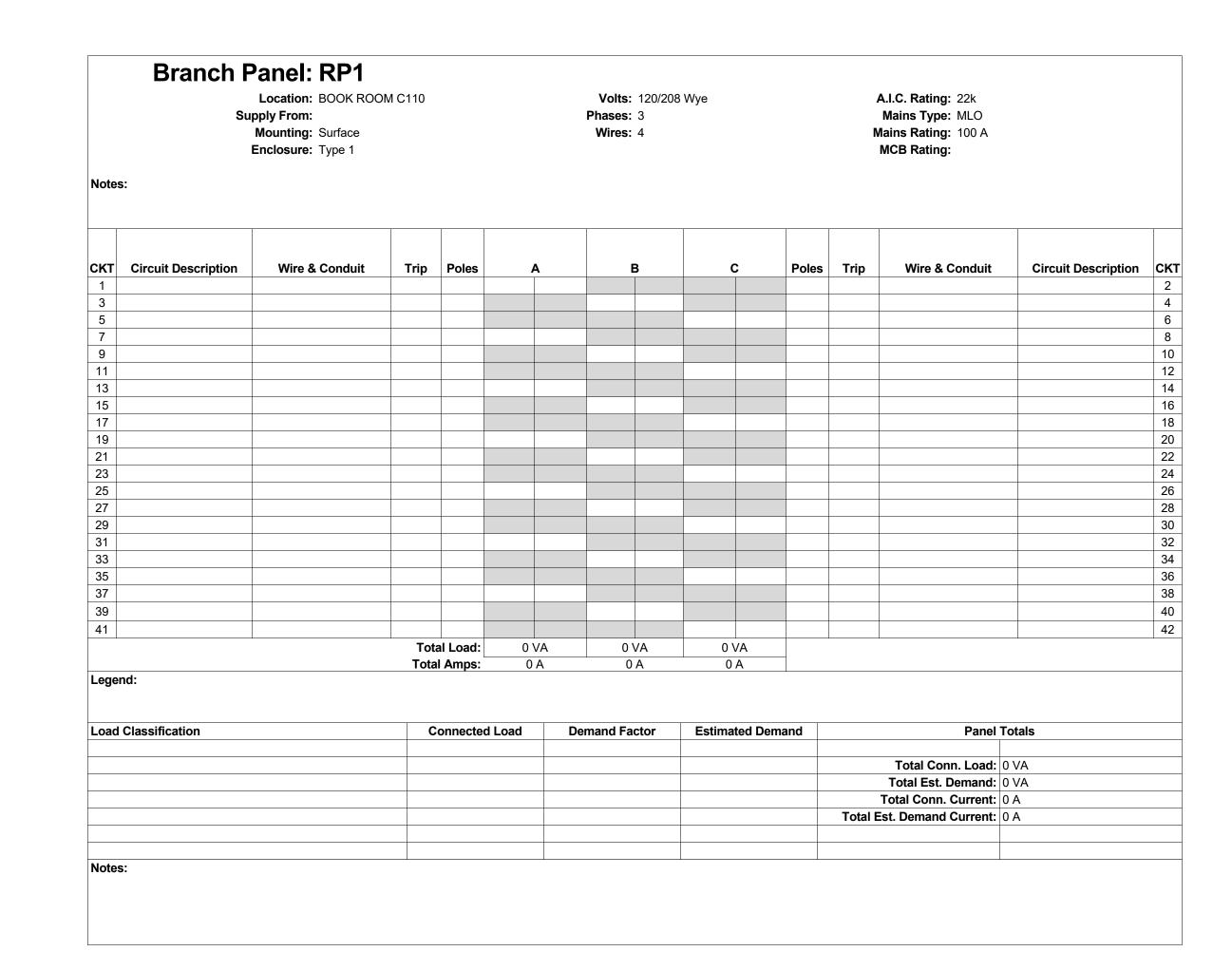
Drawing Title:

Date: Drawing Number: JUNE 30, 2020 E601 1/8"=1'-0" Drawn By: MTC Project Number: 18.223









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PANEL SCHEDULES

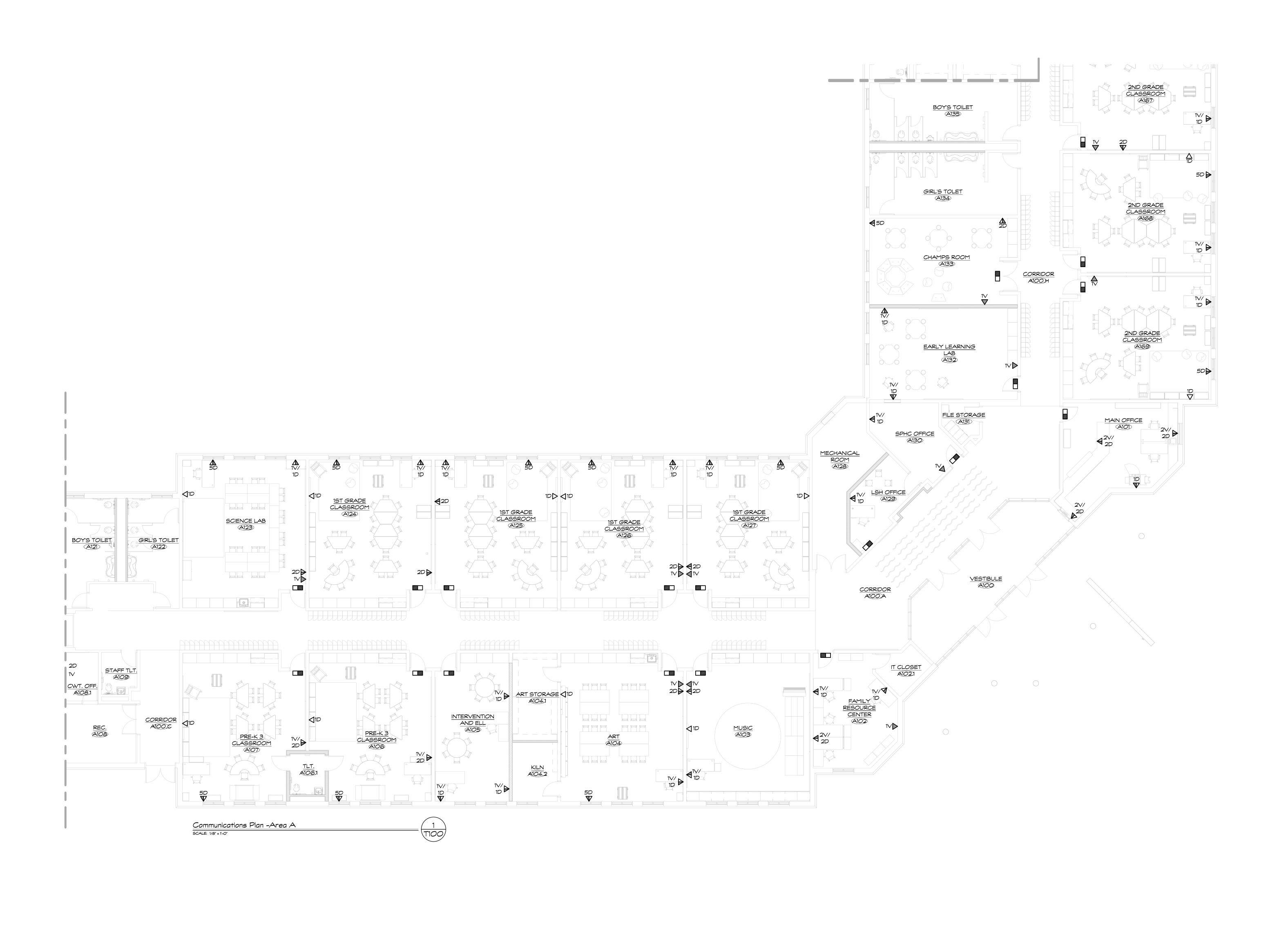
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 June 30, 2020
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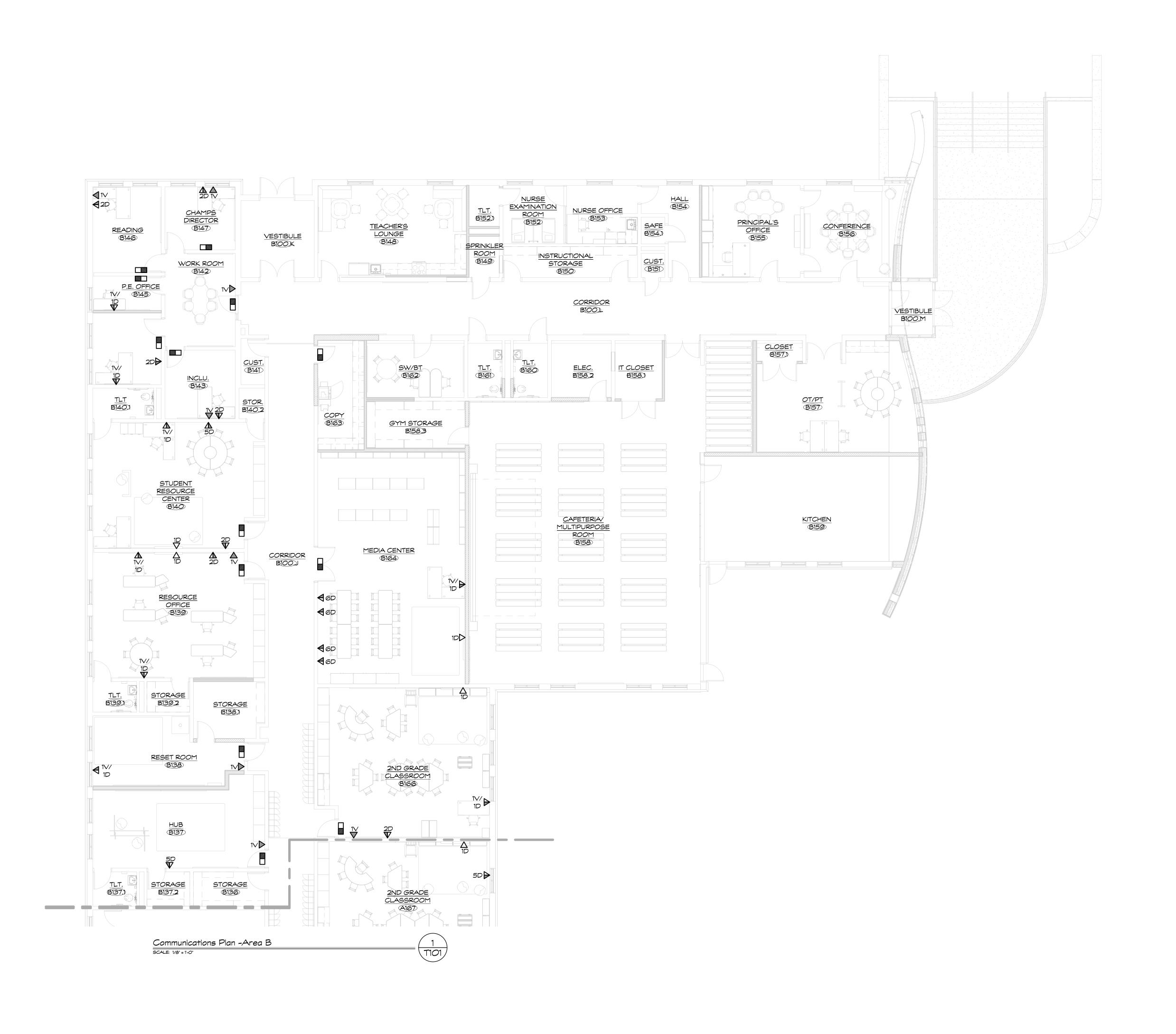
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COMMUNICATIONS PLAN -AREA A

State Project #: 162-0043RNV

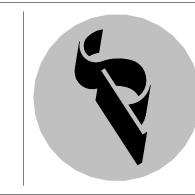
Revised By:

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COMMUNICATIONS PLAN AREA B

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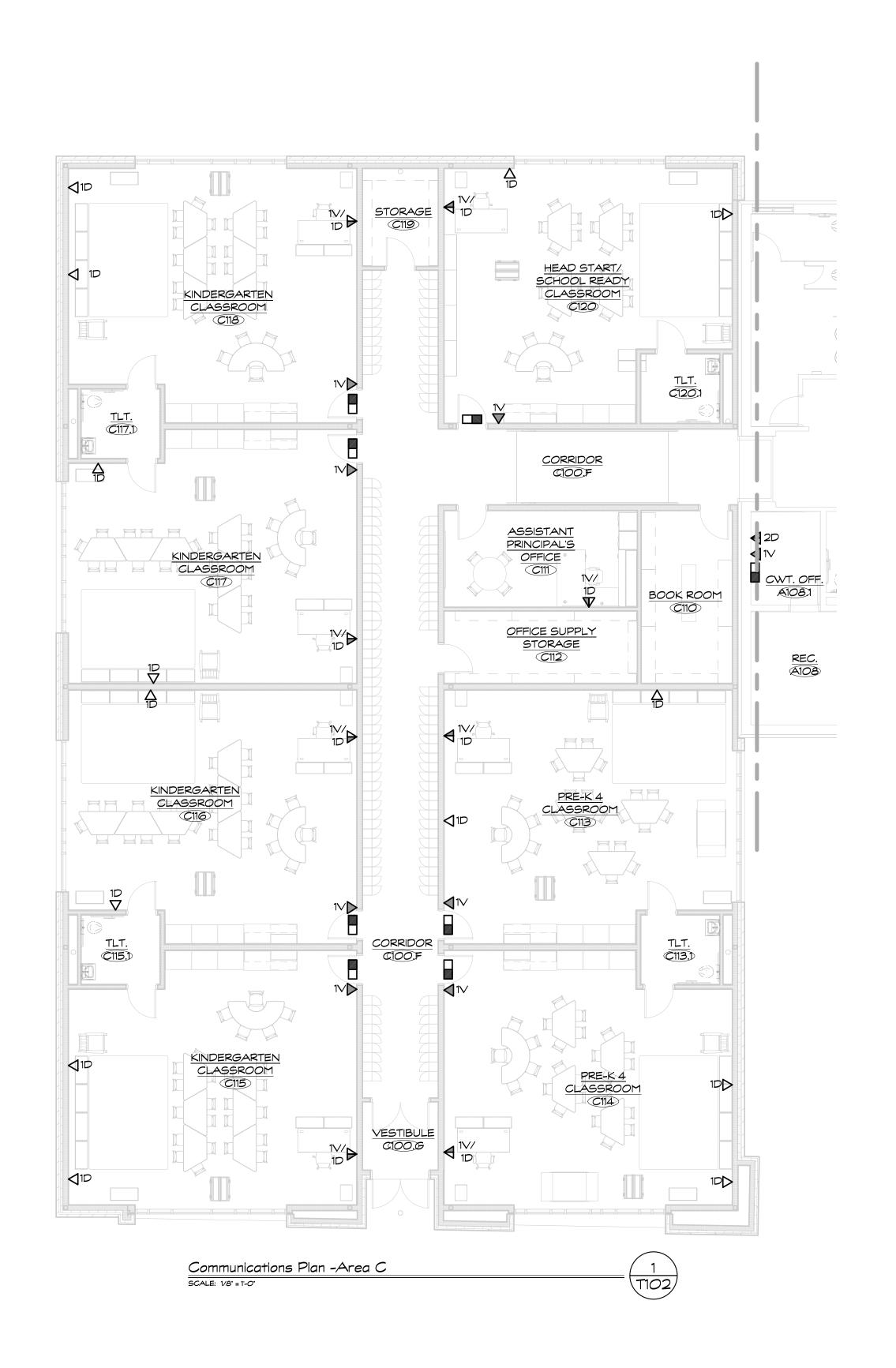
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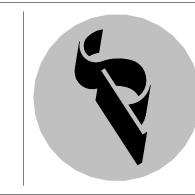
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COMMUNICATIONS PLAN AREA C
State Project #: 162-0043RNV

Date:

June 30, 2020

Scale:

1/8" = 1'-0"

Drawn By:

MTC

Project Number:

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