# H.H.S. 2018-2019 Improvements to the Pool Town of Hamden, Hamden BOE

2040 Dixwell Ave. Hamden, Connecticut 06514

# Issued For Bid



# Drawing List

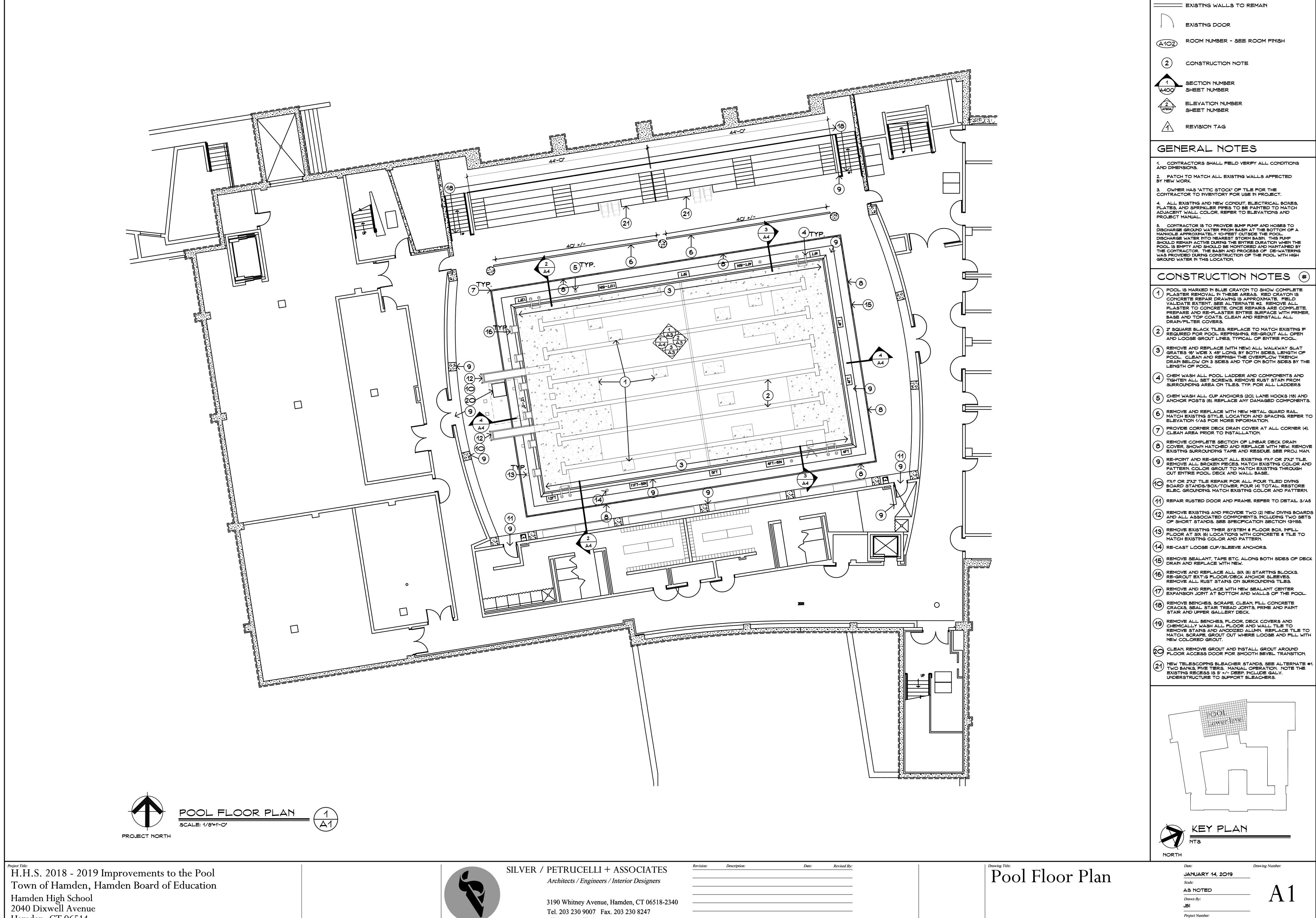
- CS COVER SHEET
- A1 POOL FLOOR PLAN
- A2 REFLECTED CEILING PLAN
- A3 INTERIOR ELEVATIONS
  A4 INTERIOR ELEVATIONS & POOL SECTIONS
- A5 DETAILS & PHOTOS
- S1 PARTIAL ROOF FRAMING PLAN, DETAILS, NOTES
- M0 MECHANICAL LEGEND, SCHEDULES & NOTES
- M1 POOL MECHANICAL ROOF PLAN
- M2 POOL MECHANICAL DETAILS
- MD1 POOL MECHANICAL ROOF DEMOLITION PLAN
- P1 PLUMBING COVER SHEET
- P2 POOL PUMP ROOM DEMOLITION & RENOVATION PLANS
- P3 EXISTING POOL PUMP ROOM SCHEMATIC PLAN
- P4 RENOVATED PARTIAL POOL PUMP ROOM SCHEMATIC PLAN
- E1 SYMBOLS, NOTES, ABBREV., SCHEDULES & DETAILS ELECTRICAL
- E2 LOWER LEVEL DEMO. PLAN (POOL) ELECTRICAL
- E3 LOWER LEVEL PLAN (POOL) ELECTRICAL
- E4 THIRD FLOOR/ROOF DEMOLITION PLAN (POOL) ELECTRICAL
- E5 THIRD FLOOR/ROOF PLAN (POOL) ELECTRICAL



# SILVER / PETRUCELLI + ASSOCIATES

Architects / Engineers / Interior Designers

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

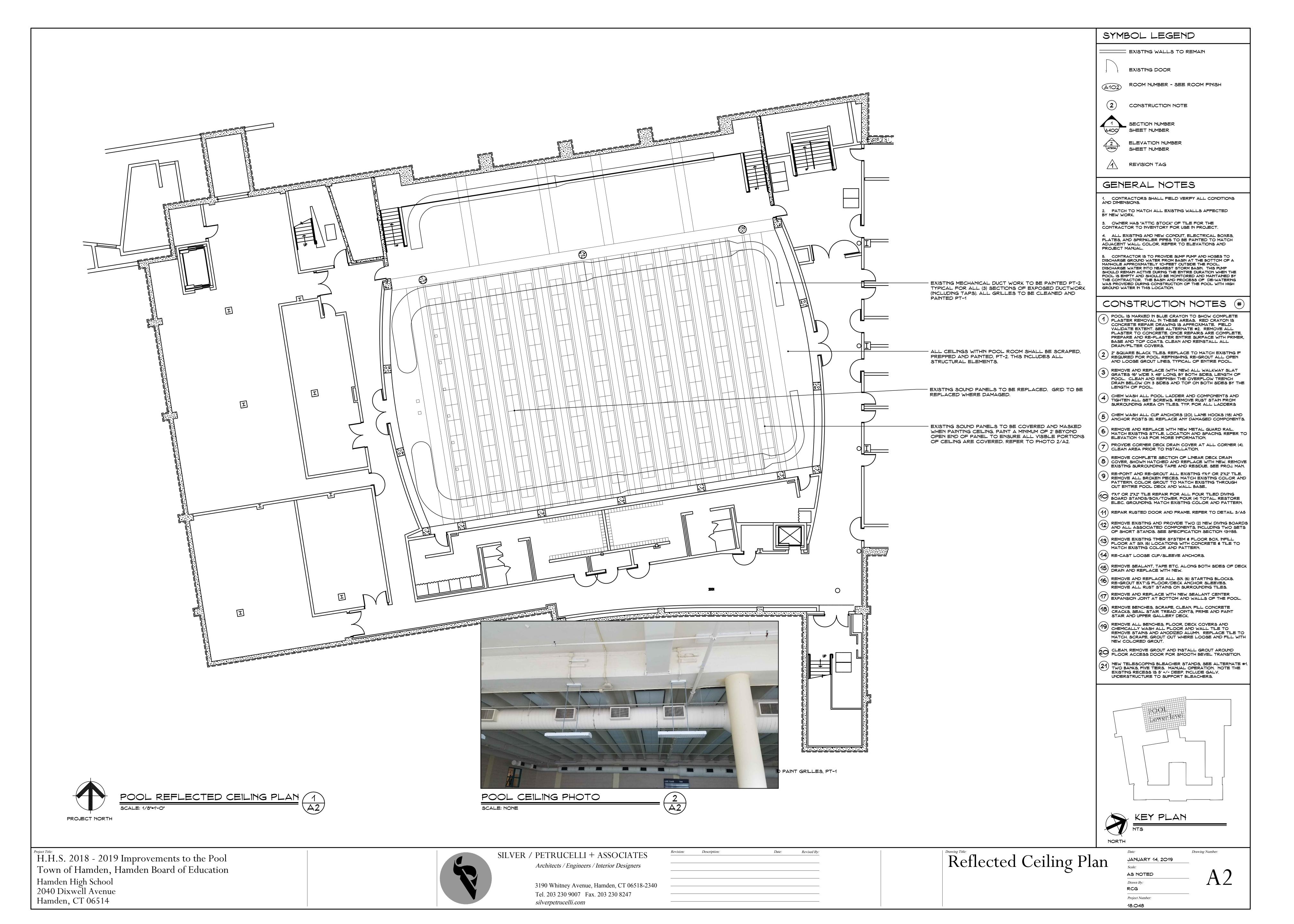


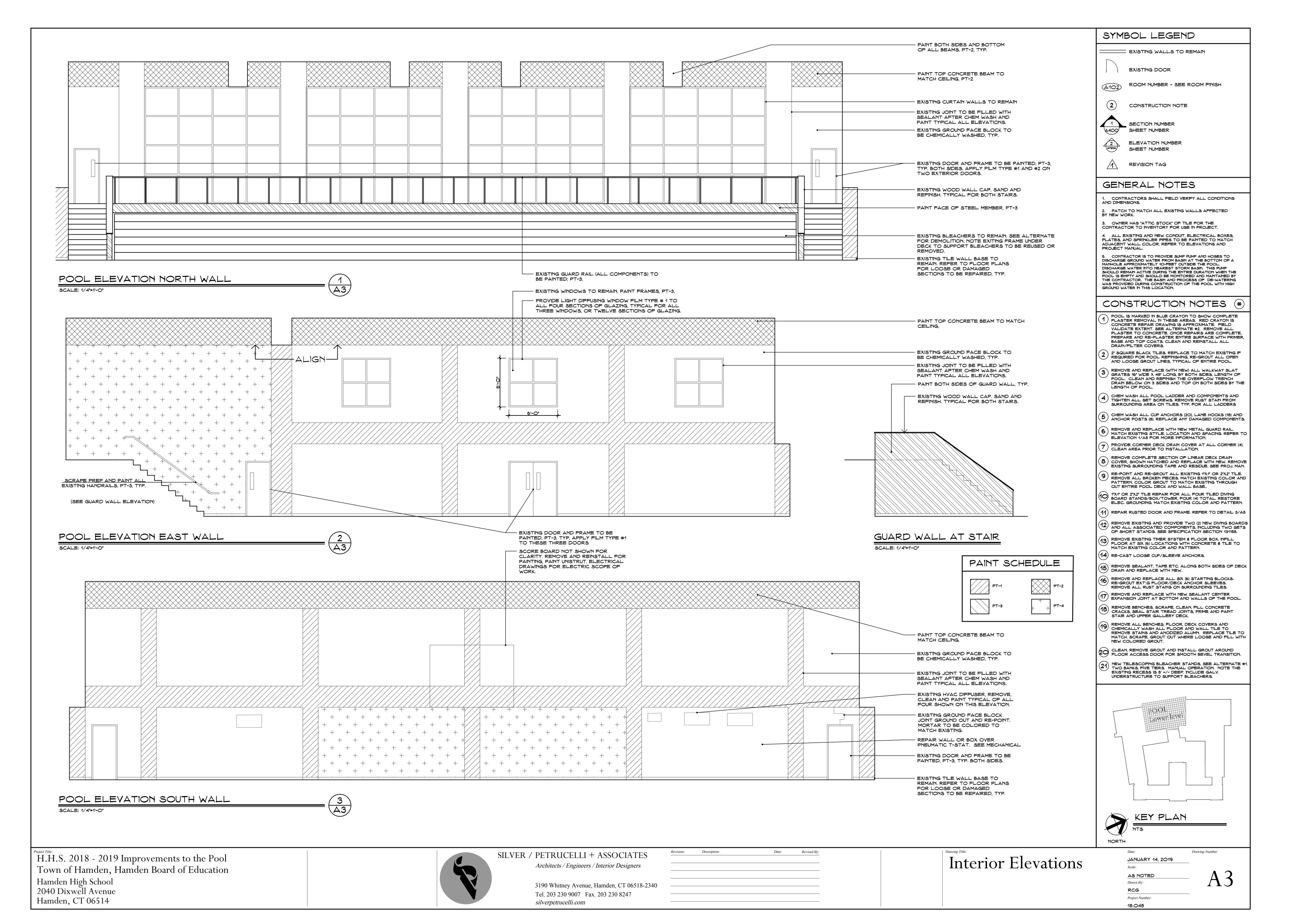
silverpetrucelli.com

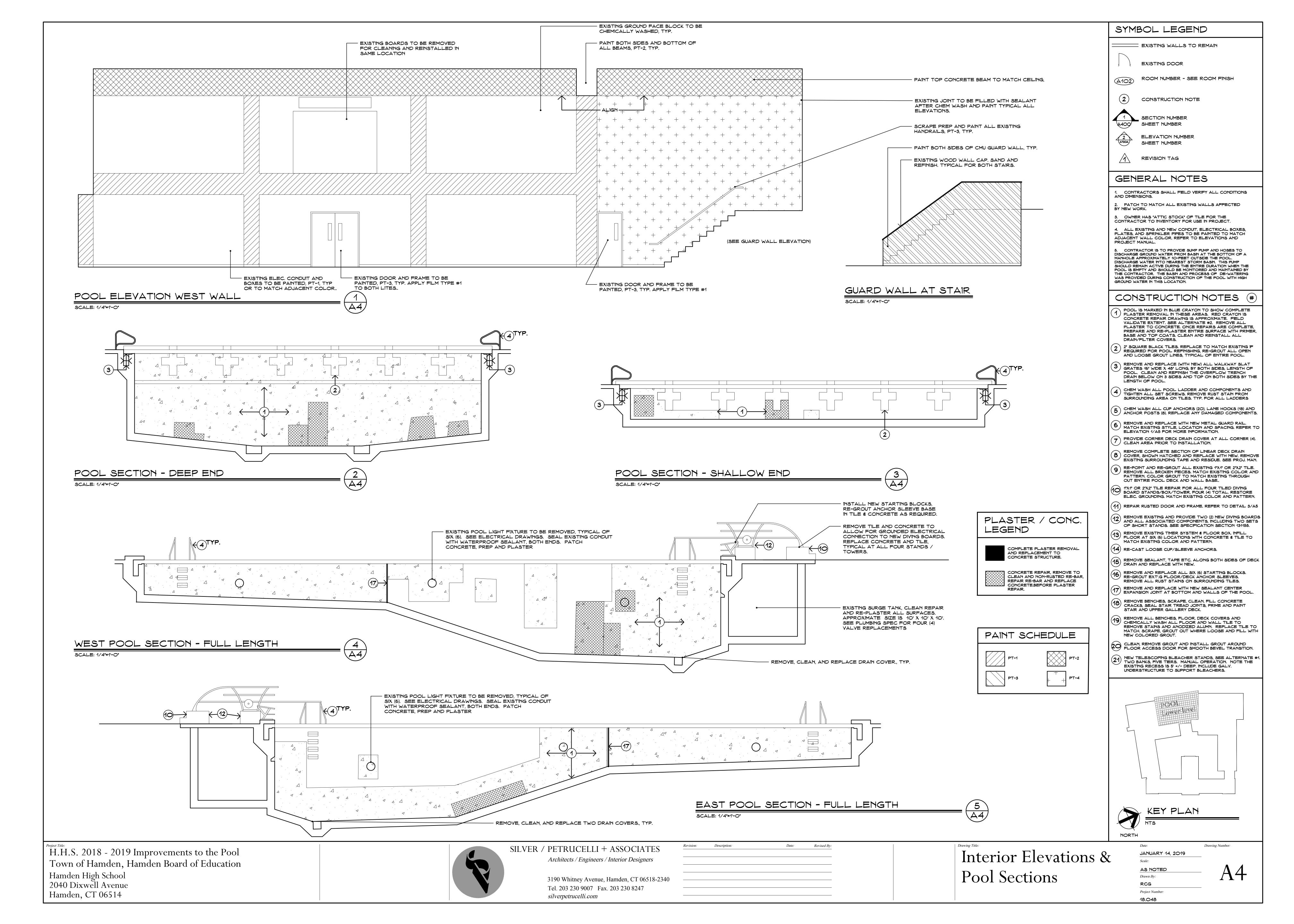
Hamden, CT 06514

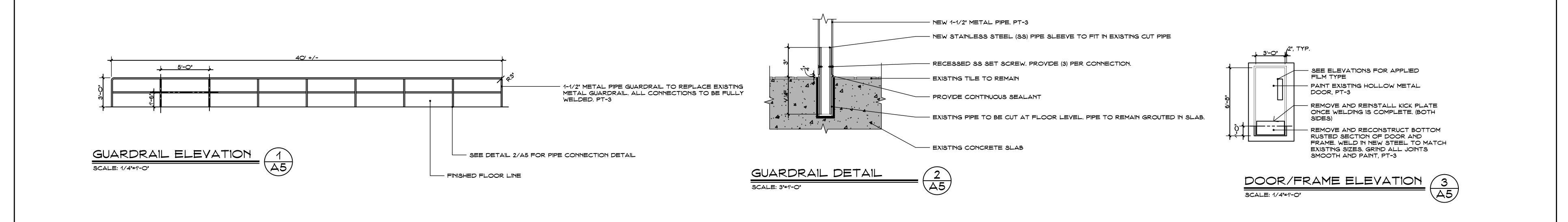
18.048

SYMBOL LEGEND



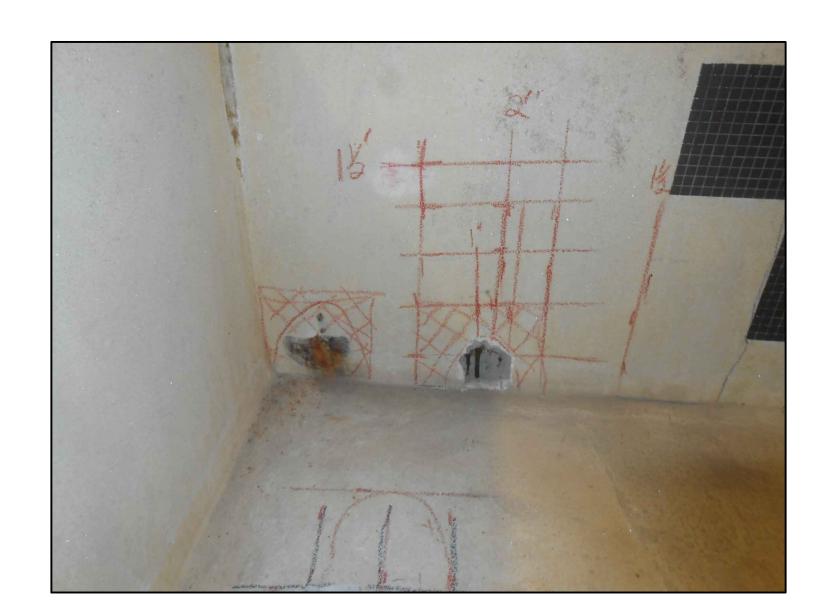




















POOL PHOTO #4

SCALE: NONE

7

A5

H.H.S. 2018 - 2019 Improvements to the Pool Town of Hamden, Hamden Board of Education Hamden High School 2040 Dixwell Avenue Hamden, CT 06514



SILVER / PETRUCELLI + ASSOCIATES

Architects / Engineers / Interior Designers

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

Revision:	Description:	Date:	Kevisea By
-			

Details & Photos

Date:

JANUARY 14, 2019

Scale:

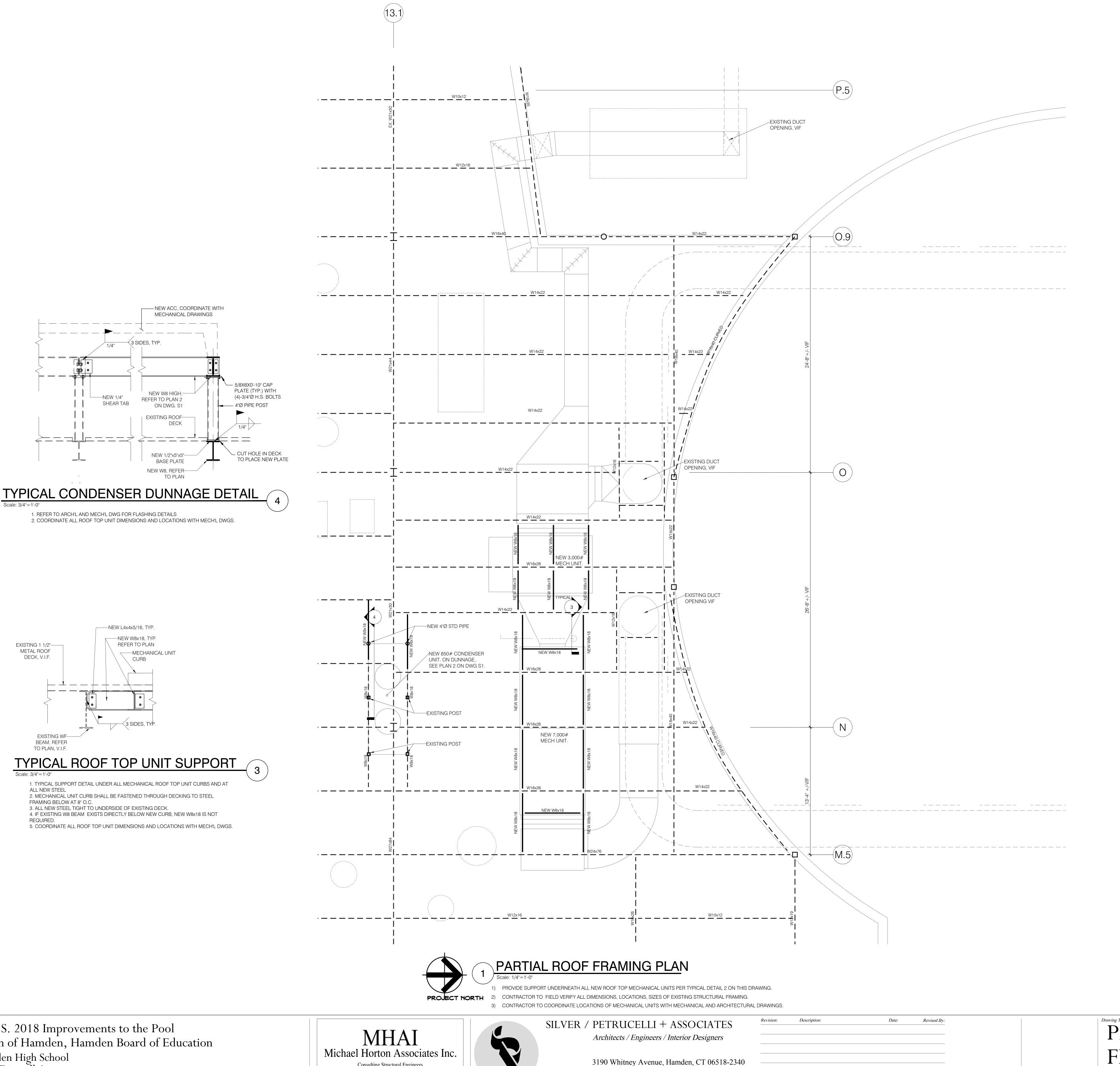
AS NOTED

Drawn By:

RCG

Project Number:

18.048



DETAILS, NOTES

PROVIDE NEW W8x18-

AS REQUIRED UNDER

ACC SUPPORT FEET

H.H.S. 2018 Improvements to the Pool Town of Hamden, Hamden Board of Education Hamden High School 2040 Dixwell Avenue

Hamden, CT 06514

EXISTING 1 1/2"-METAL ROOF

DECK, V.I.F.

BEAM, REFER

FRAMING BELOW AT 8" O.C.

TO PLAN, V.I.F.

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

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

PARTIAL ROOF FRAMING PLAN,

**GENERAL NOTES** 

ROOF LOAD:

DESIGN LOADS: TOWN OF HAMDEN

MINIMUM ROOF LIVE LOAD = 30 PSF

WIND LOAD CRITERIA: SECTION 1609 (2012 IBC) ULTIMATE WIND SPEED VU = 135 MPH NOMINAL DESIGN WIND VASD = 105 MPH

SEISMIC IMPORTANCE FACTOR, le = 1.25

NOTES, THE STRICTEST PROVISION SHALL GOVERN.

SEISMIC RISK CATEGORY = III Ss = 0.185g, S1 = 0.063gSOIL SITE CLASS = D

SEISMIC DESIGN CATEGORY, B

WEIGHT SHOWN ON DRAWINGS.

PROCEEDING WITH ANY WORK.

STRUCTURAL STEEL

STRUCTURAL STEEL

WELDING ELECTRODE

4. CONNECTIONS:

ALL W SHAPES

MATERIALS:

DURING ALL PHASES OF CONSTRUCTION.

OF STEEL CONSTRUCTION SPECIFICATION.

AMERICAN WELDING SOCIETY.

SHOWN ON DRAWINGS.

RUST, GREASE, ETC.

BEFORE BEING SUBMITTED TO THE ARCHITECT FOR APPROVAL.

ASTM A 36

ASTM E 70

ASTM A 992, GR.50 ASTM A325

DESIGNED FOR SLIP CRITICAL BOLT ALLOWABLE LOAD VALUES.

ROOF DEAD LOAD = 10 PSF

RISK CATEGORY III, lw = 1.0EXPOSURE CLASSIFICATION "B".

GOVERNING CODE: 2016 CONNECTICUT STATE BUILDING CODE, (2012 INTERNATIONAL BUILDING CODE).

DRIFTING, UNBALANCES AND SLIDING PER SECTION 1608 (2012 IBC).

MINIMUM WIND LOAD ON PRIMARY STRUCTURE = 15 PSF

SEISMIC LOAD CRITERIA: AS PER SECTION 1613 (2012 IBC) WITH:

SPECTRAL RESPONSE COEFFICIENTS, Sds = 0.197G, Sd1 = 0.101g

WIND LOADS ON SECONDARY ELEMENTS SHALL CONFORM WITH ASCE 7-10.

ROOF SNOW LOAD CRITERIA: Pg = 30 PSF, Ce = 0.9 AND Is = 1.1, Ct= 1.0 WITH INCREASES FOR SNOW

1. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THE GENERAL STRUCTURAL

WHETHER SHOWN OR NOT SHOWN ON STRUCTURAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR TRANSMISSION OF REQUIREMENTS, LOCATIONS AND DETAILS TO STRUCTURAL SUBCONTRACTORS. EXCESS COST

3. MECHANICAL EQUIPMENT WEIGHTS USED IN DESIGN OF SUPPORTING ELEMENTS HAVE BEEN INDICATED ON THE

4. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS

6. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES AND EXISTING CONDITIONS BEFORE

1. DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO CURRENT AMERICAN INSTITUTE

CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR AND CONSTRUCTED IN ACCORDANCE WITH THE

MINIMUM CONNECTION ANGLE THICKNESS SHALL BE 5/16". USE DOUBLE FRAMING ANGLE CONNECTIONS.

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

5. ALL STEEL MEMBERS EXPOSED TO WEATHER SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A123.

6. EXISTING STEEL SURFACES TO RECEIVE FIELD WELDS SHALL BE THOROUGHLY CLEANED UNTIL FREE FROM PAINT,

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

-NEW 4"Ø STD PIPE

CONDENSER DUNAGE FRAMING PLAN (HIGH)

LATEST EDITION OF THE A.I.S.C. MANUAL OF STEEL CONSTRUCTION. CONNECTIONS SHALL BE PROVIDED TO

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

CONFORM TO THE REQUIREMENTS OF TYPE 2 CONSTRUCTION UNLESS OTHERWISE DETAILED.

3. ALL WELDING SHALL BE DONE BY A CERTIFIED WELDER IN ACCORDANCE WITH A.W.S. STANDARDS.

5. SHOP DRAWINGS ARE TO BE CHECKED BY THE CONTRACTOR AND SUBCONTRACTOR AND BEAR CHECKER'S INITIALS

DRAWINGS. CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO INSTALLATION IF ACTUAL WEIGHT EXCEEDS

2. 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,

RELATED TO VARIATION IN MECHANICAL REQUIREMENTS ARE NOT TO BE BORNE BY THE OWNER.

Drawing Number: JANUARY 14, 2019 AS NOTED Drawn By: CH Project Number: 18.048

# AIR DUCT CLEANING AND PAINTING NOTES

- 1. PROVIDE CLEANING OF INTERIOR AND EXTERIOR OF DUCTWORK AS INDICATED ON DRAWING M1.
- 2. DUCT INTERIOR SHALL BE CLEANED IN ACCORDANCE WITH NATIONAL AIR DUCT CLEANERS ASSOCIATION (NADCA) STANDARD ACR 2013. WORK SHALL BE PERFORMED BY CONTRACTOR CÉRTIFIED IN DUCT CLEANING BY NADCA OR OTHER NATIONALLY RECOGNIZED INDUSTRY ORGANIZATION.
- 3. DUCT EXTERIOR, INCLUDING REGISTERS AND GRILLES, SHALL BE CLEANED, PREPPED FOR PAINTING, AND PAINTED IN ACCORDANCE WITH SPECIFICATION SECTION 099123. REMOVE AND REINSTALL REGISTERS, GRILLES AND DUCT SMOKE DETECTORS AS REQUIRED TO PERFORM WORK.
- 4. PROVIDE DUCT OPENINGS AS REQUIRED TO PERFORM DUCT CLEANING. CLOSE AND SEAL OPENINGS UPON COMPLETION OF WORK.

# COMMISSIONING NOTES

- THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO SUPPORT THE COMMISSIONING AGENT IN THE COMMISSIONING OF HVAC SYSTEMS INSTALLED OR MODIFIED AS WORK OF THIS CONTRACT.
- 2. THE CONTRACTOR SHALL DEMONSTRATE THAT EACH SYSTEM IS INSTALLED. OPERATIONAL AND CONTROLLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS AND AS OUTLINED BY THE COMMISSIONING PLAN, TO BE PROVIDED BY THE COMMISSIONING AGENT.
- 3. SYSTEMS TO BE COMMISSIONING SHALL INCLUDE ALL NEW HVAC SYSTEMS INSTALLED OR MODIFIED AS WORK OF THIS CONTRACT.
- 4. FOR COMMISSIONING REQUIREMENTS, REFER TO SPECIFICATION SECTION 019113 -GENERAL COMMISSIONING REQUIREMENTS, AND SECTION 230800 - COMMISSIONING

# AUTOMATIC TEMPERATURE CONTROLS

REFER TO SPECIFICATION SECTIONS 230900 FOR SYSTEM REQUIREMENTS. THE BUILDING IS SERVED BY A HONEYWELL NIAGARA BUILDING ENERGY MANAGEMENT SYSTEM (BMS). PROVIDE BACNET CONTROL INTERFACE WITH NEW POOL DEHUMIDIFICATION SYSTEM.

PROVIDE NEW JACE AS REQUIRED FOR INTEGRATION OF DH-1, HEATING SECTION AND AIR COOLED CONDENSER INTO EXISTING BMS.

INSTALL TWO TEMPERATURE SENSORS AND TWO CO2 SENSORS IN NATATORIUM FOR CONTROL OF NEW DEHUMIDIFICATION SYSTEM. INSTALL ONE OF EACH SENSOR ON INTERIOR WALL NEAR WOMEN'S TOILET ROOM AND ONE EACH ON WALL ADJACENT TO SPECIATOR AREA.

HVAC EQUIPMENT INSTALLED AS WORK OF THIS PROJECT SHALL BE ADDRESSABLE THROUGH THE EXISTING BMS.

THE SCOPE OF WORK SHALL INCLUDE ALL DEVICES. LOW AND LINE VOLTAGE WIRING. TRANSFORMERS, CONDUIT, RELAYS AND PROGRAMMING REQUIRED FOR BMS CONTROL INTERFACE WITH NEW POOL DEHUMIDIFICATION SYSTEM.

# GENERAL NOTES - MECH/ELEC

- DRAWINGS, SPECIFICATIONS, GENERAL CONDITIONS AND SUPPLEMENTAL CONDITIONS OF THE CONTRACT ARE INTEGRAL PARTS OF THE CONTRACT DOCUMENTS.
- DRAWINGS ARE SCHEMATIC IN NATURE AND INDICATE APPROXIMATE LOCATIONS AND POSSIBLE ARRANGEMENTS OF NEW AND EXISTING SYSTEM COMPONENTS. VERIFY ACTUAL LOCATIONS
- REMOVE, MODIFY, REPLACE AND RELOCATE EXISTING SYSTEMS AS REQUIRED FOR INSTALLATION OF NEW HVAC SYSTEMS. MODIFICATIONS PERFORMED SHALL NOT ADVERSELY EFFECT PERFORMANCE OF EXISTING SYSTEMS.
- 4. ALL WORK AND ACTION DEPICTED AND DESCRIBED IN CONTRACT DOCUMENTS SHALL BE PERFORMED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE.
- REFERENCE TO SPECIFIC SUB-CONTRACTORS SUCH AS "MECHANICAL", "PLUMBING", ETC. ARE INTENDED TO SUGGEST POSSIBLE DIVISION OF RESPONSIBILITY. PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND EXECUTION OF ALL WORK.
- PROVIDE SUPPORT/BRACING OF EQUIPMENT AND BUILDING SERVICES FOR SEISMIC RESTRAINT AS REQUIRED BY THE BUILDING CODE.
- OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
- 8. ALL EQUIPMENT, MATERIALS, AND RELATED SYSTEMS COMPONENTS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE.
- REPAIR AND REPLACE AT NO COST TO OWNER ALL EQUIPMENT AND MATERIALS DAMAGED
- DURING CONSTRUCTION. 10. READ THE PROJECT MANUAL.
- VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH, AND TO DETERMINE THE CONSTRUCTION IMPACT OF EXISTING FACILITY CONDITIONS PRIOR TO SUBMITTING BID. SUCH EXISTING FACILITY CONDITIONS IMPACT SHALL BE INCLUDED AS PART OF ALL BIDS.
- 12. STUDY AND COORDINATE WITH DRAWINGS OF OTHER DISCIPLINES INCLUDING ARCHITECTURAL,
- CIVIL, STRUCTURAL & ELECTRICAL. SLEEVE, PATCH AND SEAL ALL FLOOR AND WALL OPENINGS REQUIRED FOR PIPE AND DUCT INSTALLATION. PROVIDE FIRE SAFING AT PENETRATIONS THROUGH WALLS.
- 14. 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.
- 16. ALL PENETRATIONS THRU RATED WALLS & CEILINGS SHALL BE SEALED USING U.L. LISTED METHODS APPROPRIATE FOR INDICATED RATING.
- 17. ALL ROOFING WORK TO BE PERFORMED BY A JOHNS-MANVILLE APPROVED CONTRACTOR WITH APPROVED MATERIALS COMPATIBLE WITH EXISTING ROOFING.

# GENERAL DEMOLITION NOTES

COORDINATE PHASING WITH OWNER/ARCHITECT.

- 1. PHASE WORK TO MAINTAIN SYSTEMS AND BUILDING SERVICES AS REQUIRED DURING CONSTRUCTION.
- PATCH, REPAIR AND SEAL ALL WALL AND ROOF OPENINGS RESULTING FROM MECHANICAL/ELECTRICAL DEMOLITION. RESTORE FINISHES WITH MATERIALS MATCHING EXISTING. PROVIDE PROTECTION FROM WEATHER DURING CONSTRUCTION.
- 3. ALL ROOFING WORK TO BE PERFORMED BY A JOHNS-MANVILLE APPROVED CONTRACTOR.
- ENSURE THAT POWER IS SECURED OFF PRIOR TO COMMENCING EQUIPMENT REMOVAL. SECURE POWER BACK TO PANEL FOR EQUIPMENT BEING REMOVED.
- PROVIDE TEMPORARY CAPS OR COVERS FOR ALL OPENED PIPE, DUCT AND CONDUIT TO PREVENT INTRODUCTION OF FOREIGN MATERIAL.
- ALL WASTE MATERIALS AND EQUIPMENT SHALL BE REMOVED FROM SITE AND LEGALLY DISPOSED OF BY THE CONTRACTOR.
- RECLAIM ALL REFRIGERANT FROM AIR CONDITIONING SYSTEMS BEING REMOVED IN A MANNER COMPLYING WITH LOCAL, STATE AND FEDERAL REGULATIONS.
- SHUT OFF GAS SUPPLY AND PURGE GAS PIPING WITH INERT GAS PRIOR TO COMMENCING WORK ON GAS PIPING SYSTEM.

# PHASING NOTES

- WORK SHALL BE PHASED TO ALLOW OWNER TO CONTINUE BUSINESS OPERATIONS DURING THE CONSTRUCTION PERIOD. COORDINATE SCHEDULING WITH OWNER, GENERAL CONTRACTOR AND AFFECTED TENANTS PRIOR TO COMMENCING WORK IN AREAS AFFECTED BY DEMOLITION OR NEW CONSTRUCTION.
- WORK REQUIRING INTERRUPTION OF ESSENTIAL BUILDING SERVICES SHALL BE PERFORMED DURING UNOCCUPIED PERIODS (AFTER BUSINESS HOURS). ESSENTIAL SERVICES SHALL INCLUDE BUT NOT LIMITED TO VENTILATION, WATER AND SEWER SERVICE, POWER, AND TELECOMMUNICATIONS. HEATING AND AIR CONDITIONING SHALL BE CONSIDERED TO BE ESSENTIAL WHEN CONDITIONS WILL CAUSE TEMPERATURES IN THE BUILDING TO FALL BELOW 68°F OR EXCEED 75°F.

	MECHANICAL LEGEND						
			DIDE ELBOW LID				
}	RECTANGULAR, FLAT OVAL OR ROUND AIR DUCT (PLAN VIEW)	e———	PIPE ELBOW UP PIPE ELBOW DOWN				
\ \ \-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\	KOUND AIR DUCT (PLAN VIEW)	, , ,	TAKEOFF FROM TOP OF MAIN PIPE				
<del></del>	DUCTWORK WITH ACOUSTIC LINING	, Ţ,	TAKEOFF FROM BOTTOM OF MAIN PIPE				
<del> </del>	DODINGTON TOTAL PROPERTY LINES	, , ,	GATE VALVE OR BALL VALVE				
	SUPPLY OR OUTSIDE AIR DUCT UP	, г,					
×	SUPPLY OR OUTSIDE AIR DUCT DOWN	<del>}   • </del>	BALL VALVE				
	RETURN OR EXHAUST DUCT UP RETURN OR EXHAUST DUCT DOWN	<b>&gt;</b>	PIPE UNION				
ا ا	KEIGHT OK EXIMOST BOOT BOWN		SUPPLY DIFFUSER WITH FLEXIBLE DUCT				
	CEILING RETURN OR EXHAUST GRILLE	丁	(4-WAY AIR PATTERN)				
		<b>→</b> >	DIRECTION OF SUPPLY OR OUTSIDE AIR				
———M	MOTORIZED DAMPER	<b>-</b> \-	DIRECTION OF RETURN OR EXHAUST AIR				
FD FD	FIDE DAMPER W/ ACCESS DOOR	<u> </u>					
\$D/FD	FIRE DAMPER W/ ACCESS DOOR	\\	FLEXIBLE CONNECTION DUCTWORK TO EQUIPMENT				
	SMOKE/FIRE DAMPER W/ ACCESS DOOR		DOCTWORK TO EQUIPMENT				
VD		<del> </del>	NEW DUCTWORK				
<del>                                    </del>	VOLUME DAMPER						
	. 5202 2 20	£	HIDDEN DUCTWORK OR EQUIPMENT				
	SQUARE ELBOW WITH TURNING VANES						
		(T)	THERMOSTAT OR TEMPERATURE SENSOR.				
	SQUARE TO ROUND TRANSITION	-	THERMOSTAL OR TEMPERATURE SENSOR.				
	SQUARE TO ROUND INVINCING	(1)	TEMPERATURE SENSOR				
VP Y	PITCH DUCT UP	<u></u>	DUCT SMOKE DETECTOR — FURNISHED UNDER DIV 16, INSTALLED BY MECHANICAL CONTRACTOR				
DN	PITCH DUCT DOWN	<b>(P)</b>	DUCT STATIC PRESSURE SENSOR				
	ABBREVIA	TIONS					
AFF	ADOVE FINISHED FLOOD	1.00	LOW DDFOOLIDE OTEAN				
AFF APD	ABOVE FINISHED FLOOR AIR PRESSURE DROP (IN WG)	LPS LPR	LOW PRESSURE STEAM LOW PRESSURE CONDENSATE RETURN				
BOD	BOTTOM OF DUCT DIMENSION ABOVE FINISHED FLOOR	MAX	MAXIMUM				
CD	CEILING DIFFUSER	MBH	BTU PER HOUR (THOUSAND)				
CO	CLEANOUT	MIN	MINIMUM				
CFM C.M.	CUBIC FEET PER MINUTE CONSTRUCTION MANAGER	NTS OA	NOT TO SCALE OUTSIDE AIR				
CW	DOMESTIC COLD WATER	PD	PRESSURE DROP				
EF	EXHAUST FAN	POC	POINT OF CONNECTION — NEW TO EXISTING				
EG EG	EXHAUST GRILLE	PRESS	PRESSURE				
ENT	ENTERING	RA	RETURN AIR				
EWT	ENTERING WATER TEMPERATURE	RG	RETURN GRILLE				
ESP	EXTERNAL STATIC PRESSURE ( IN. WG. )	REF	RELIEF EXHAUST FAN				
FD FD	FIRE DAMPER	RPM	REVOLUTIONS PER MINUTE				
FF	FOULING FACTOR	SA	SUPPLY AIR				
G	NATURAL GAS	SAN	SANITARY DRAIN				
G.C.	GENERAL CONTRACTOR	SF	SQUARE FEET				
GIV	GRAVITY INTAKE VENT	SG SPEC	SUPPLY GRILLE SPECIFICATION				
GRV	GRAVITY RELIEF VENT	TYP	TYPICAL				
GPH	GALLONS PER HOUR	VAV	VARIABLE AIR VOLUME				
GPM	GALLONS PER MINUTE	V	VOLT				
HP	HORSEPOWER	VD	VOLUME DAMPER				
HW	DOMESTIC HOT WATER	WCO	WALL CLEANOUT				
HWS	HOT WATER SUPPLY	WG	WATER GAUGE				
LWT	LEAVING WATER TEMPERATURE	WPD	WATER PRESSURE DROP (FT HD)				
		W/	WITH				

	POOL DEHUMIDIFICATION UNIT																																	
	SUPF	PLY AIR	FAN		EXH	AUST AII	R FAN		OUTSID	E @		CAPACITY .4°Fwb ENT AIR		DIRECT	EXPANS	ION COIL	.S	нот	GAS RE	EHEAT	COIL	SUPPL		AIR FILT		EXHAUS	T AIR		ELE	CTRICAL	OPER			
SYMBOL	CFM	ESP (IN WG)	TSP (IN WG)	MOTOR HP	CFM	ESP (IN WG	TSP (IN WG)	MOTOF HP	AIR CFM	TOT ME	TAL SENSIBLE	MOISTURE REMOVAL CAPACITY (LBS/HR)	CAPA TOTAL MBH	CITY SENSIBLE MBH	EAT °F DB/WB	MAX FINS/FT	MIN ROWS	MINIMU CAPACIT MBH	EAT (°F)	LAT (°F)	MAX APD (IN WG)		INITIAL APD (IN WG)	FINAL APD (IN WG)	TYPE	VELOCITY	INITIAL APD (IN WG)	APD	VOLTS/ø	MCA MOO	WEIGHT (LBS)	MANUFACTU	RER AND MODEL	NOTES
DH-1	13,800	1.8	3.0	20.0	6900	0.35	1.86	7.5	6400		33 201.6	171.8	383		82.0/71.4		8	480	52.3	84.4	0.2	MERV 8 500	0.33	1.0	MERV 8	500	0.33	1.0	460/3	95 110	7000	DESERT-AIRI	MODEL SA30EE4CCX	

- NOTES: 1. PROVIDE STAINLESS STEEL CONDENSATE DRAIN PAN AND 4" FILTER RACK FOR SUPPLY AND EXHAUST.
  - 2. FAN ESP REQUIREMENTS INCLUDE 0.5 IN. WG. ALLOWANCE FOR DIRTY FILTERS.
  - 3. PROVIDE MANUFACTURER'S ROOF CURB. 4. FURNISH WITH NON-FUSED DISCONNECT SWITCH AND UN-POWERED GFCI SERVICE RECEPTACLE. REFER TO ELECTRICAL DRAWINGS FOR 120V POWER TO RECEPTACLE.
  - 5. SUPPLY & EXHAUST FANS, MOTORS & DRIVES SHALL BE MOUNTED ON SPRING ISOLATORS. 6. FURNISH WITH CM3510 CONTROLLER WITH USER INTERFACE AND ALL REQUIRED DEVICES FOR INTERFACE WITH BMS. COORDINATE REQUIREMENTS WITH BMS CONTRACTOR.
  - 7. FURNISH SUPPLY FAN WITH VFD. PROVIDE VARIABLE SPEED EXHAUST FAN(S) WITH ECM MOTORS.
  - 8. PROVIDE LEFT SIDE SERVICE ACCESS.

	REMOTE AIR COOLED CONDENSER								
SYMBOL	TOTAL HEAT REJECTION (BTUH)	FAI QNTY		ELE VOLTS/ø	CTRIC MCA		OPER WEIGHT (LBS)	MANUFACTURER AND MODEL	NOTES
ACC-1	546,000	2	22,752	460/3	9	13	850	DESERT-AIRE RC8S015C	

1. FURNISH UNIT WITH DISCONNECT SWITCH AND REQUIRED MOTOR STARTERS.

SILVER / PETRUCELLI + ASSOCIATES

Architects / Engineers / Interior Designers

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

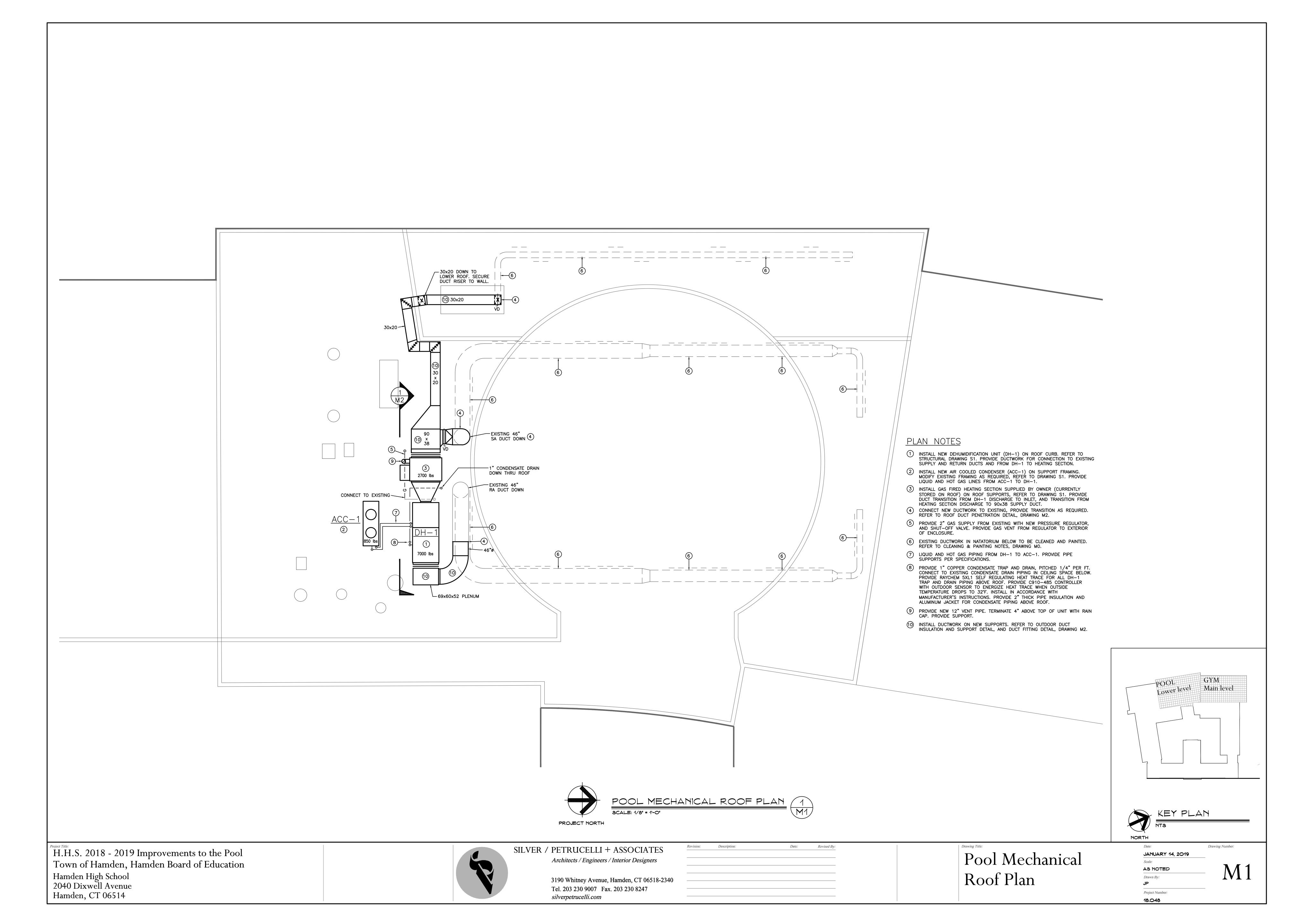
Mechanical Legend, Schedules & Notes

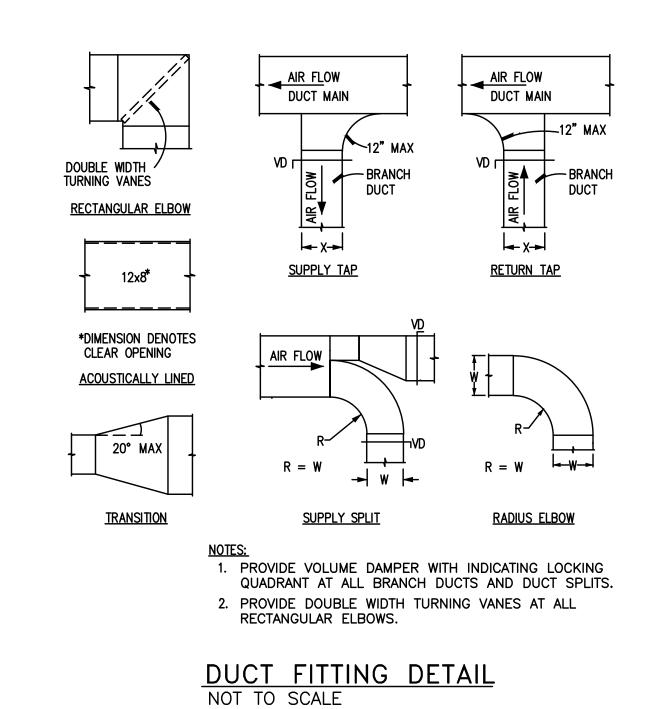
Drawing Number: JANUARY 14, 2019 M0AS NOTED Drawn By:

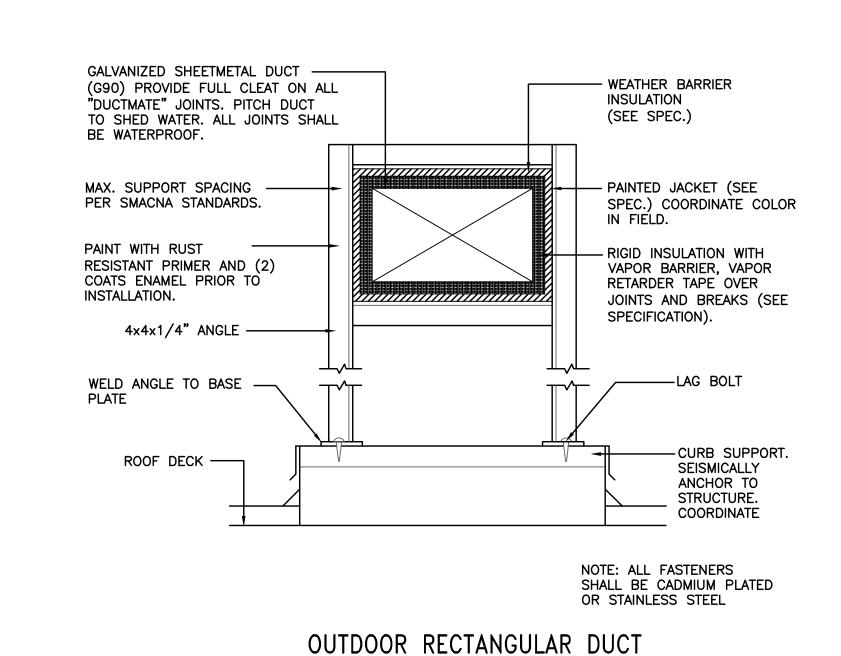
Project Number:

18.048

H.H.S. 2018 - 2019 Improvements to the Pool Town of Hamden, Hamden Board of Education Hamden High School 2040 Dixwell Avenue Hamden, CT 06514

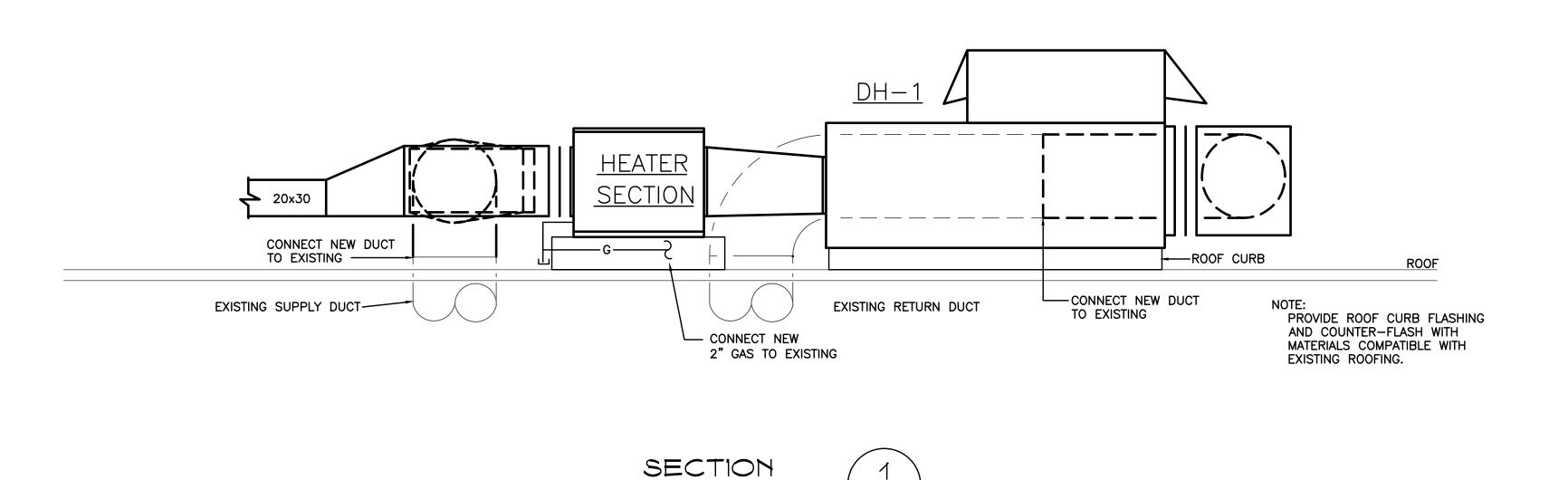






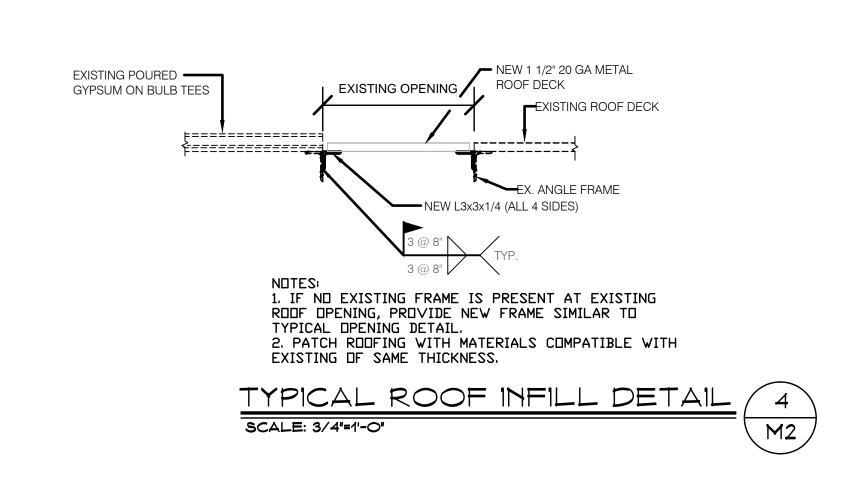
INSULATION AND SUPPORT

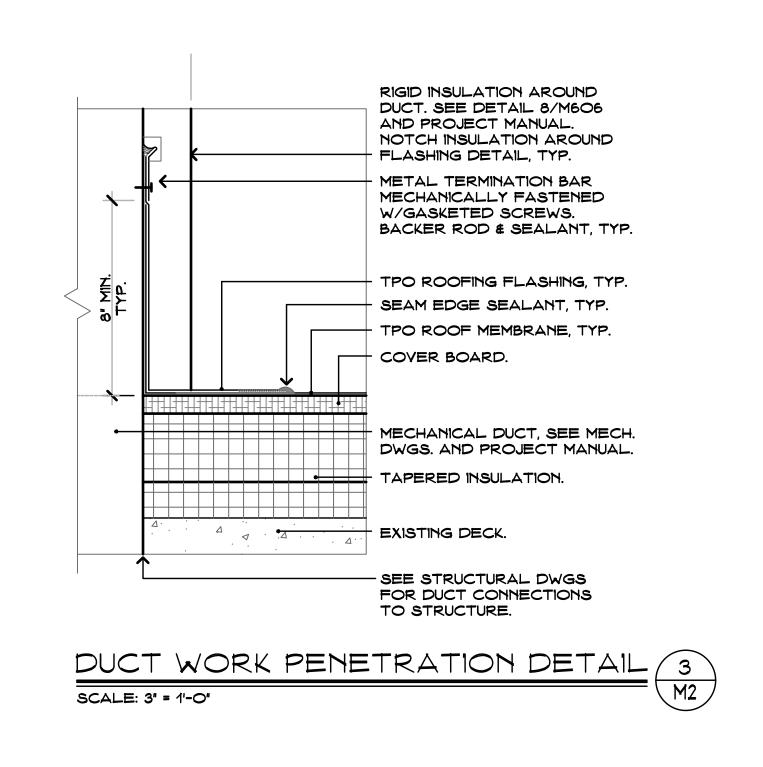
NOT TO SCALE

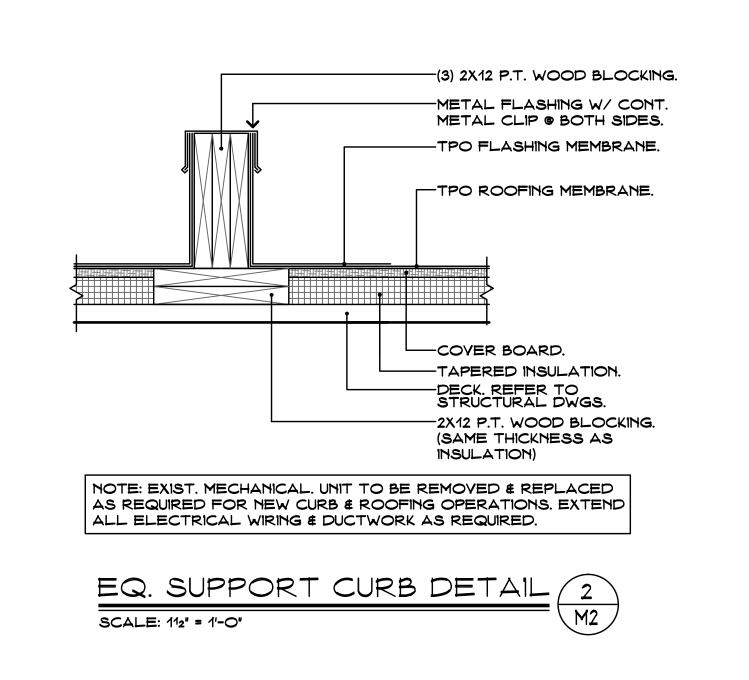


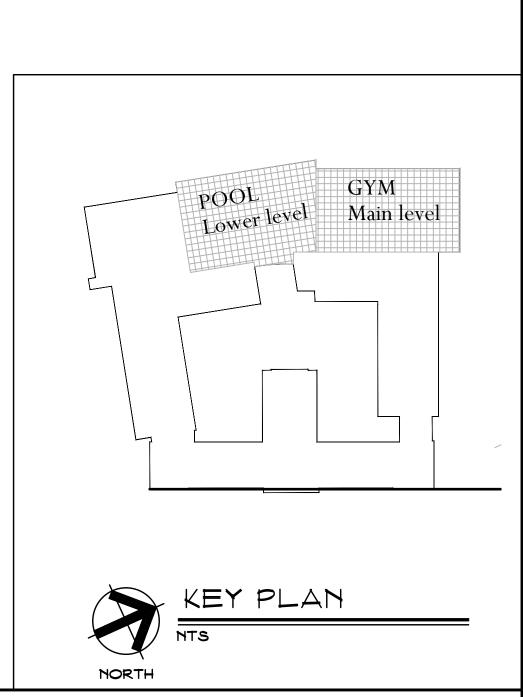
SCALE: 1/4"=1'-0"

M1









H.H.S. 2018 - 2019 Improvements to the Pool Town of Hamden, Hamden Board of Education Hamden High School 2040 Dixwell Avenue

Hamden, CT 06514



SILVER / PETRUCELLI + ASSOCIATES

Architects / Engineers / Interior Designers

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

Pool Mechanical Details Date:

JANUARY 14, 2019

Scale:

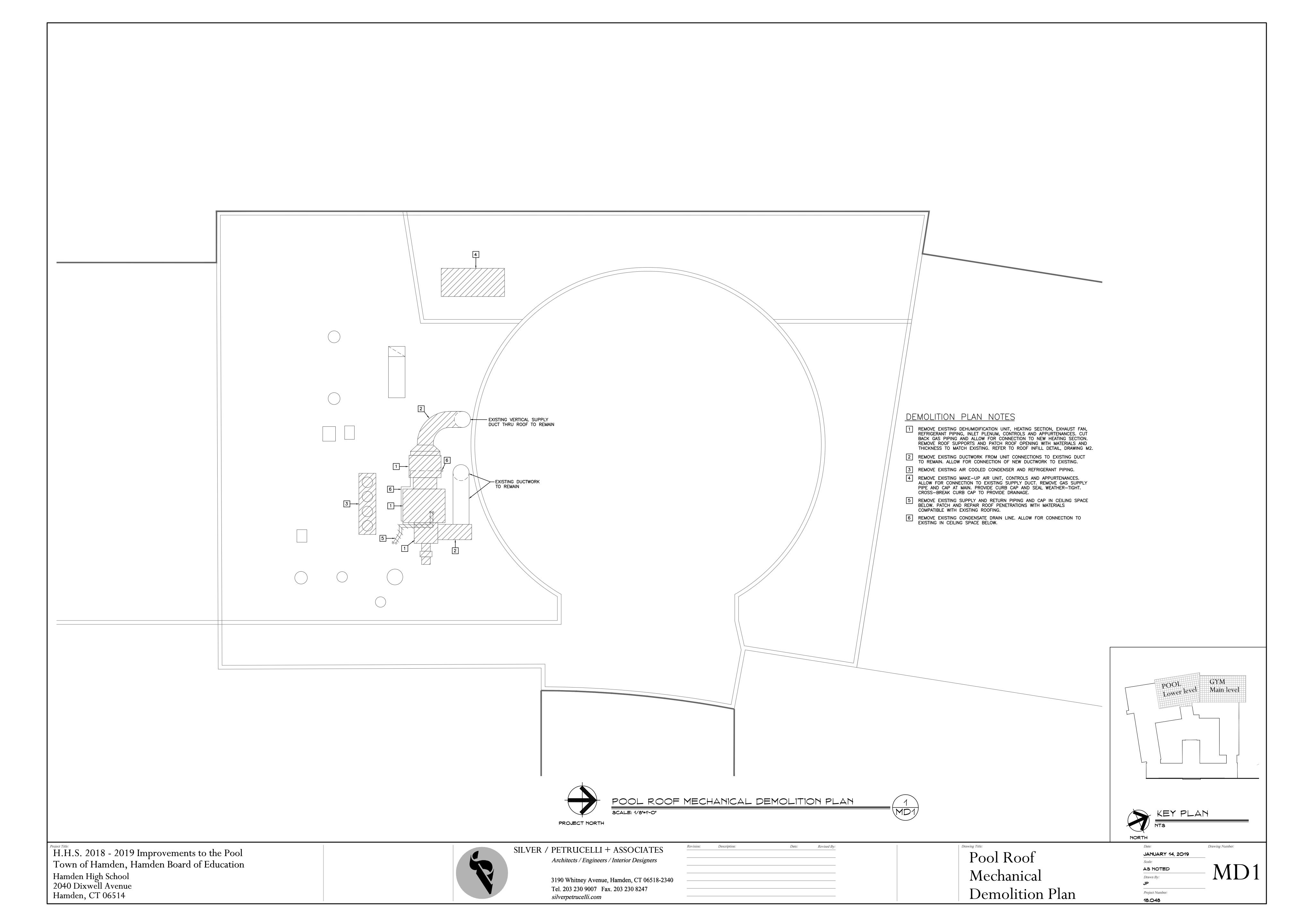
AS NOTED

Drawn By:

JP

Project Number:

18.048



# BENEFICIAL USE BY THE OWNER. STATE, AND FEDERAL CODES AND LAWS. STORE MATERIALS INSIDE AND PROTECTED FROM DEBRIS, WEATHER AND MOISTURE. COORDINATION

# PLUMBING GENERAL NOTES

THE INTENT OF THESE CONTRACT DOCUMENTS (SPECIFICATIONS AND DRAWINGS) IS FOR THE CONTRACTOR TO FURNISH AND INSTALL COMPLETE PLUMBING SYSTEMS. ALL SYSTEMS SHALL BE COMPLETE IN ALL RESPECTS. OPERATING, TESTED, ADJUSTED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR

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.

ITEMS AND SERVICES NOT SHOWN ON DRAWINGS OR SPECIFICATIONS BUT REQUIRED TO RENDER THE WORK COMPLETE AND READY FOR OPERATION, SHALL BE PROVIDED WITHOUT ADDITIONAL COST.

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.

DRAWINGS ARE DIAGRAMMATIC AND INDICATE A GENERAL ARRANGEMENT OF WORK AND ARE NOT TO BE CONSIDERED SUB-CONTRACTOR 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.

PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT GENERAL CONDITIONS AND WITH THE PROVISIONS OF ALL APPLICABLE LOCAL,

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

ALL EQUIPMENT, MATERIALS AND RELATED SYSTEMS COMPONENTS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE.

THIS CONTRACTOR SHALL COORDINATE ALL POWER AND CONTROL WIRING REQUIRED FOR EQUIPMENT OPERATION REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM WITH ELECTRICAL CONTRACTOR. THIS CONTRACTOR SHALL PROVIDE MOTOR STARTERS FOR INSTALLATION. COORDINATE REQUIREMENTS.

REPAIR AND/OR REPLACE AT NO COST TO OWNER ALL EQUIPMENT AND MATERIALS DAMAGED DURING CONSTRUCTION.

ALTERATION WORK AND DEMOLITION

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

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

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 OWNER UPON COMPLETION OF ALL NEW WORK.

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.

THE CONTRACTOR SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS.

INCLUDING PROJECT MANUAL, PLANS AND SPECIFICATIONS OF ALL TRADES BEFORE SUBMITTING BID. REFER TO SPECIFICATIONS, PROJECT MANUAL AND PLANS, INCLUDING ALL EQUIPMENT SCHEDULES FOR INFORMATION. CONTRACTOR SHALL WALK THROUGH BUILDING PRIOR TO SUBMITTING BID WHEN AVAILABLE.

ALL OF THE CONTRACT DRAWINGS AND SPECIFICATIONS ARE COMPLIMENTARY TO FORM A TOTAL DESIGN PACKAGE. 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.

THE CONTRACTOR SHALL VERIFY THESE DRAWINGS WITH EXISTING FIELD CONDITIONS AND SHALL COORDINATE LOCATIONS OF SERVICE LINES BEFORE PROCEEDING WITH CONSTRUCTION.

CONTRACTORS SHALL COORDINATE THEIR WORK WITH ALL OWNER-FURNISHED EQUIPMENT, INCLUDING REQUIRED SERVICE CONNECTIONS, RECEPTACLES, ETC. BEFORE INSTALLATION.

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. COORDINATE ALL PIPING AND CONDUITS LEAVING THE BUILDING WITH THE SITE CONTRACTOR BEFORE INSTALLATION.

DEVELOP AND SUBMIT COORDINATION DRAWINGS AS OUTLINED.

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.

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 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.

# SHOP DRAWINGS

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO BE APPROVED, REVISED, OR RESUBMITTED AS PER THE ENGINEERS COMMENTS, PRIOR TO CONSTRUCTION.

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.

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:

INCLUDE ALL CHANGES AND AN ACCURATE RECORD, ON REPRODUCTIONS OF THE

CONTRACT DRAWINGS OR APPROPRIATE SHOP DRAWINGS, OF ALL DEVIATIONS,

BETWEEN THE WORK SHOWN AND WORK INSTALLED. APPROVED SUBSTITUTIONS, CONTRACT MODIFICATIONS, AND ACTUAL EQUIPMENT

AND MATERIALS INSTALLED.

SUBMIT FOR REVIEW BOUND SETS OF THE REQUIRED DRAWINGS, MANUALS AND OPERATING INSTRUCTIONS.

CONTRACT MODIFICATIONS, ACTUAL EQUIPMENT AND MATERIALS INSTALLED.

SUBMIT A COMPLETE MAINTENANCE MANUAL OF ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT.

# HANGERS AND SUPPORT

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. HANGERS IN CONTACT WITH COPPER OR BRASS PIPE SHALL BE DIELECTRIC, COMPATIBLE WITH COPPER AND BRASS ALLOY OR PROVIDED WITH FELT SLEEVE.

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-L/2 INCHES AND LARGER, I BEAM CLAMPS SHALL BE FORGED STEEL. "C" CLAMPS ARE NOT TO BE USED.

BAND IRON, TIE WIRE, METAL STRAPPING OR WIRE STRAPPING SHALL NOT BE

SEAL ALL PIPING PASSING THROUGH ALL FIRE AND/OR SMOKE RATED PARTITIONS AND WALLS WITH A UL LISTED, APPROVED AND TESTED FIRE AND/OR SMOKE SEALING MATERIAL INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

ALL PIPING PENETRATING A SLAB ON GRADE OR FOUNDATION WALL BELOW GRADE AND IN CONTACT WITH EARTH SHALL BE PROVIDED WITH A POURED IN PLACE SCHEDULE 80 GALVANIZED STEEL WATER TIGHT SLEEVE WITH INTEGRAL WATER STOP AND SEAL EQUAL TO "LINK SEAL".

FURNISH AND SET STEEL PIPE SLEEVES OF SCHEDULE 40 BLACK STEEL FOR ALL LOCATIONS OF INTERIOR PARTITIONS, WALLS AND FLOORS PROVIDING AT LEAST 1/2" CLEARANCE BETWEEN PIPE INSULATION AND SLEEVE OR PIPE AND SLEEVE. WALL SLEEVES SHALL BE SMOOTH CUT AND SET FLUSH WITH FINISHED WALLS. FLOOR SLEEVES SHALL EXTENDED 2" ABOVE THE FINISHED FLOOR.

ALL PIPING THROUGH WALLS, FLOORS OR CEILINGS SHALL HAVE SLEEVES AND ESCUTCHEONS. PROVIDE A TWO PIECE CHROME ESCUTCHEON WHERE PIPING PASSES THROUGH WALLS OR FLOORS OF FINISHED SPACES.

# MISCELLANEOUS SPECIALTIES

ALL EQUIPMENT, VALVES, STRAINERS, UNIONS, TRAPS, FLANGES AND OTHER APPURTENANCES REQUIRING ACCESS 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. SUCH EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO CLEANOUTS, WATER HAMMER ARRESTORS AND VALVES. THESE SHALL BE COORDINATED WITH THE ARCHITECT. 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.

# PIPING GENERAL

ALL PIPING SHALL BE RUN PERPENDICULAR AND/OR PARALLEL TO FLOORS, INTERIOR WALLS, ETC. PIPING AND VALVES SHALL BE GROUPED NEATLY AND SHALL BE RUN AS TO MAXIMIZE HEADROOM OR PASSAGE CLEARANCE. ALL VALVES, CONTROLS AND ACCESSORIES CONCEALED IN FURRED SPACES AND REQUIRING ACCESS FOR OPERATION AND MAINTENANCE SHALL BE ARRANGED TO ASSURE THE USE OF A MINIMUM NUMBER OF ACCESS DOORS.

ALL PIPE LINES MADE WITH SCREWED FITTINGS MUST BE PROVIDED WITH A SUFFICIENT NUMBER OF FLANGES AND/OR UNIONS TO ALLOW FOR EASY AND CONVENIENT DISMANTLING OF THE SYSTEM WITHOUT BREAKING FITTINGS.

CAP ALL PIPE AND EQUIPMENT OUTLETS DURING CONSTRUCTION AND KEEP LINES AND INSIDE OF EQUIPMENT FREE OF FOREIGN MATERIALS. THIS CONTRACTOR SHALL INFORM HIMSELF FROM THE GENERAL CONSTRUCTION

TO BE PLACED AND ARRANGE HIS WORK IN ACCORDANCE WITH THE SCHEDULE OF INTERIOR FINISHES, AS INDICATED ON THE ARCHITECTURAL DRAWINGS. UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT, IN

SPECIFICATIONS AND PLANS, OF THE EXACT DIMENSION OF FINISHED WORK AND OF

THE HEIGHT OF FINISHED CEILINGS IN ALL ROOMS WHERE EQUIPMENT OR PIPES ARE

BYPASSES AND IN LONG PIPING RUNS (100 FEET OR MORE) TO PERMIT DISASSEMBLY FOR ALTERATION AND REPAIRS. WHEREVER DISSIMILAR METALS ARE JOINED TOGETHER AN APPROVED DIELECTRIC

FITTING SHALL BE USED. THE DIELECTRIC FITTING SHALL BE A LISTED ASSEMBLY.

PLUMBING DRAWING INDEX SHEET DESCRIPTION PLUMBING COVER SHEET POOL PUMP ROOM DEMOLITON & RENOVATION PLANS EXISTING POOL PUMP ROOM SCHEMATIC PLAN RENOVATED PARTIAL POOL PUMP ROOM SCHEMATIC PLAN

H.H.S. 2018 - 2019 Improvements to the Pool Town of Hamden, Hamden Board of Education Hamden High School 2040 Dixwell Avenue Hamden, CT 06514



SILVER / PETRUCELLI + ASSOCIATES Architects / Engineers / Interior Designers

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

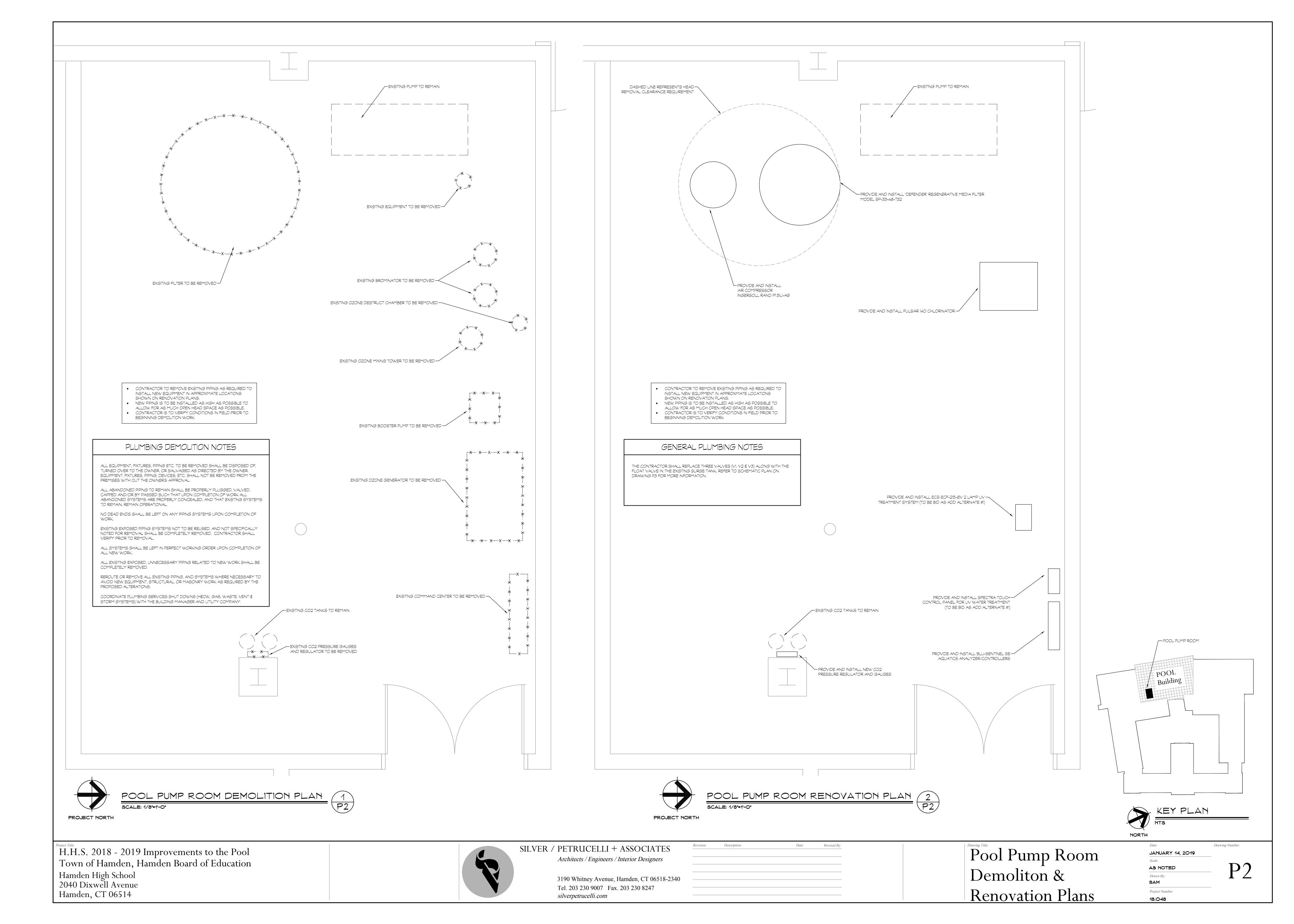
Revision:	Description:	Date:	Revised By:

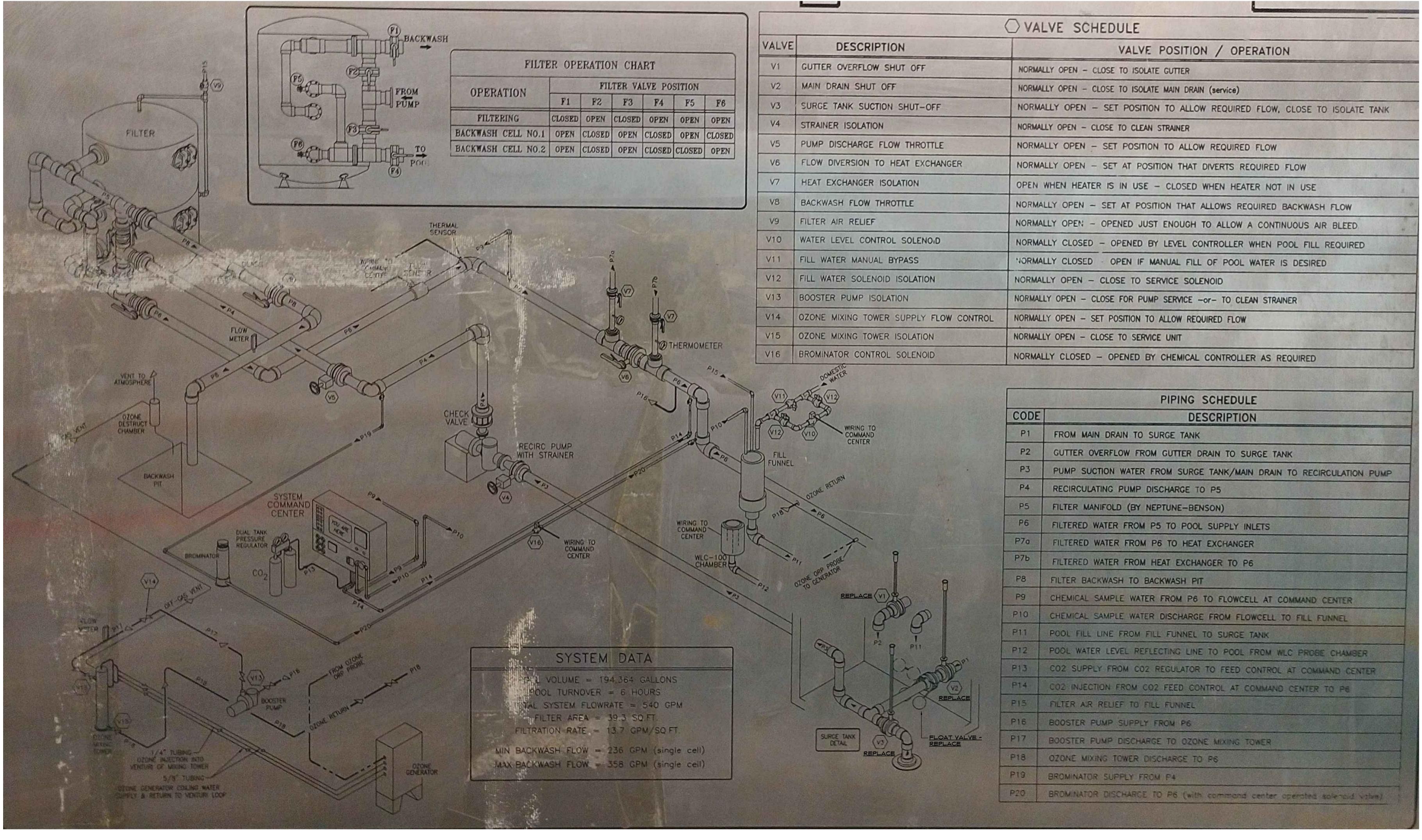


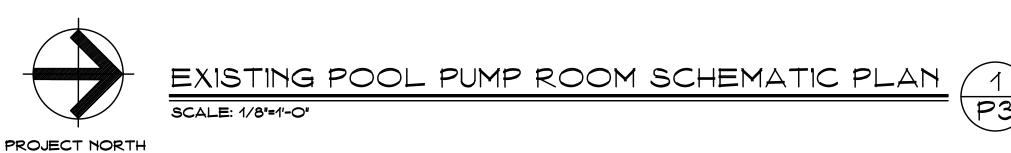
Date:	Drawing Number:
JANUARY 14, 2019	
Scale:	
NOT TO SCALE	D 1
Drawn By:	$\overline{}$
SAM	

Project Number:

18.048







H.H.S. 2018 - 2019 Improvements to the Pool Town of Hamden, Hamden Board of Education Hamden High School 2040 Dixwell Avenue Hamden, CT 06514



SILVER / PETRUCELLI + ASSOCIATES

Architects / Engineers / Interior Designers

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

silverpetrucelli.com

Existing Pool Pump
Room Schematic Plan

Date:

JANUARY 14, 2019

Scale:

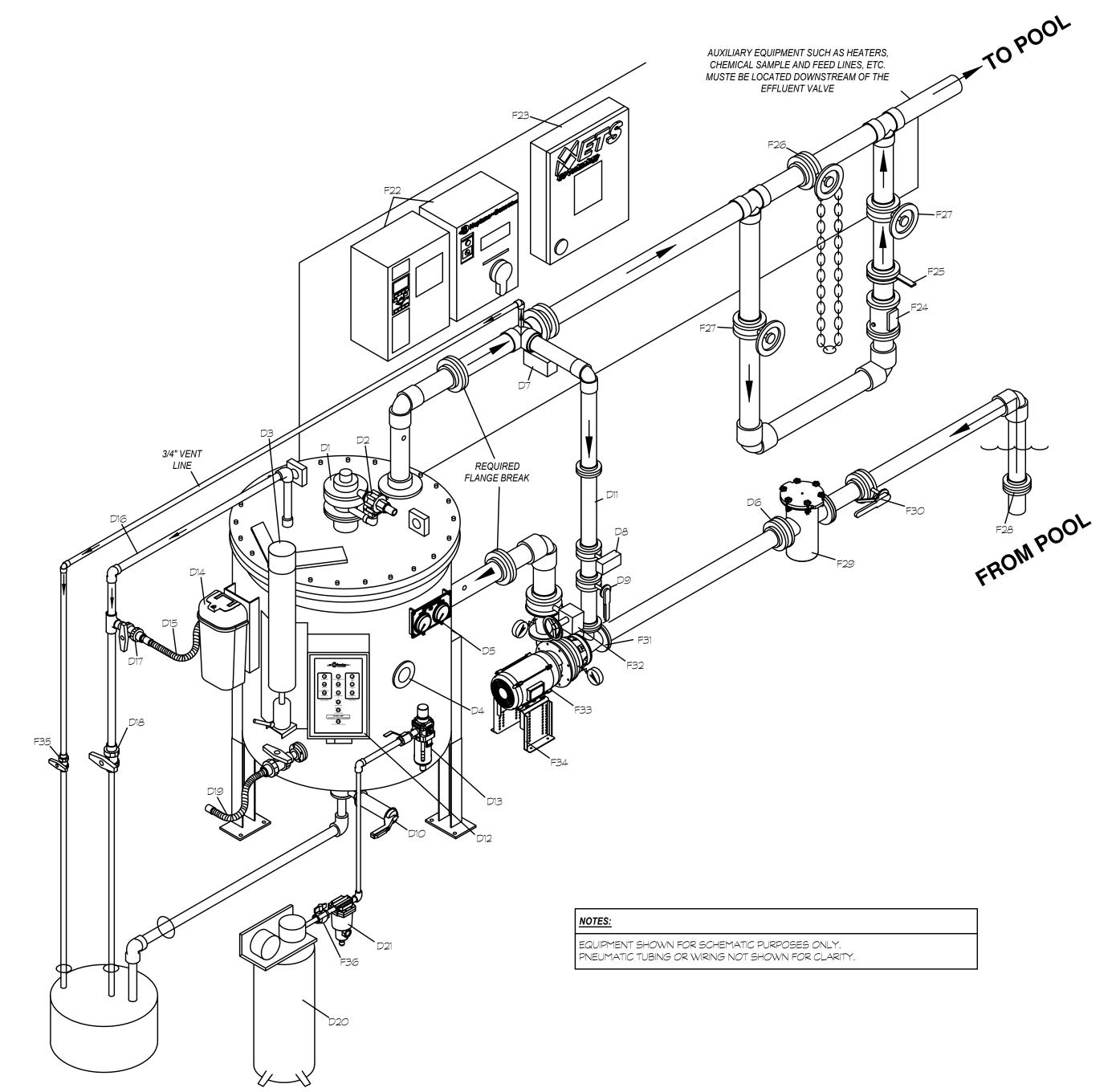
NOT TO SCALE

Drawn By:

SAM

Project Number:

18.048



MARK	REFERENCE	NOTES
D1	PNEUMATIC BUMPING ASSEMBLY	110123
D2	QUICK EXHAUST VALVE	†
D3	LIFTING DAVIT	NONE
D4	VIEWING WINDOW	
D5	GAUGE PANEL	-
D6	INFLUENT CHECK VALVE	-
D7	EFFLUENT VALVE	AIR OPERATED BUTTERFLY VALVE, NORMALLY OPEN. INSTALL EFFLUENT VALVE DIRECTLY ON PRECOAT TEE. LOCATE ACTUATOR WHERE VALVE CAN BE VIEWED FROM FLOOR.
D8	PRECOAT VALVE	AIR OPERATED BUTTERFLY VALVE, NORMALLY CLOSED. INSTALL PRECOAT VALVE AS CLOSE AS POSSIBLE TO THE PUMP SUCTION PIPING. PRECOAT LINE 2 PIPE DIAMETERS SMALLER THAN EFFLUENT PIPE DIAMETER. (NO LESS THAN 2")
D9	SYSTEM FILL	MANUALLY OPERATED BUTTERFLY VALVE, NORMALLY OPEN.
D10	DRAIN VALVE	MANUALLY OPERATED BUTTERFLY VALVE, NORMALLY CLOSED. WITH EXTENSION BOLTED DIRECTLY TO TANK BOTTOM (MEDIA DUMP / RINSE) DRAIN LINE MUST BE PLUMBED INDEPENDENTLY TO WASTE.
D11	IN-LINE SIGHT GLASS	INSTALL IN-LINE SIGHT GLASS ON THE PRECOA' LINE SO THAT IT CAN BE VIEWED WHILE STANDI AT THE FILTER CONTROL PANEL.
D12	RMF CONTROL PANEL	
D13	FILTER REGULATOR	1
D14	VACUUM TRANSFER UNIT	NONE
D15	VACUUM TRANSFER HOSE	1
D16	VACUUM TRANSFER PIPING & FITTINGS	SCH.80 PVC FITTINGS & PIPE 1.5"
D17	VACUUM TRANSFER VALVE	BALL VALVE 1.5" TRUE UNION, NORMALLY CLOSED.
D18	VACUUM VENT VALVE	BALL VALVE 1.5" TRUE UNION, NORMALLY CLOSED. VACUUM DRAIN LINE MUST BE PLUMBED INDEPENDENTLY TO WASTE.
D19	VACUUM HOSE VALVE WITH HOSE	BALL VALVE 1.5" TRUE UNION, NORMALLY CLOSED.
D20	AIR COMPRESSOR	
D21	WATER SEPARATOR	

	FILTER ACCESSORY COMPO	ONENTS - AVAILABLE UPON REQUEST
MARK	REFERENCE	NOTES
F22	GREEN DRIVE VFD	NONE
F23	ETS UV TREATMENT SYSTEM CONTROLLER	(TO BE BID AS ADD ALTERNATE #1)
F24	ETS UV TREATMENT SYSTEM	THIS IS A PACKAGE. (TO BE BID AS ADD ALTERNATE #1)
F25	ETS UV STRAINER	
F26	ETS UV BYPASS	GEAR OPERATED BUTTERFLY VALVE, NORMALLY CLOSED. (TO BE BID AS ADD ALTERNATE #1)
F27	ETS UV ISOLATION	BUTTERFLY VALVE, NORMALLY OPEN. (2) REQUIRED (TO BE BID AS ADD ALTERNATE #1)
F28	CHECK VALVE	FOR SELF PRIMING PUMPS, CHECK VALVE MUST BE INSTALLED ON SUCTION PIPE BELOW WATER LEVEL.
F29	GUARDIAN STRAINER	NONE
F30	STRAINER ISOLATION	LEVER OR GEAR OPERATED BUTTERFLY VALVE, NORMALLY OPEN.
F31	PRECOAT REDUCING TEE	NONE
F32	PUMP THROTTLE VALVE	GEAR OPERATED BUTTERFLY VALVE, NORMALLY OPEN.
F33	RECIRCULATING PUMP	NONE
F34	PUMP BASE	
F35	PRECOAT LINE VENT VALVE	NORMALLY CLOSED, PRECOAT LINE MUST BE PLUMBED INDEPENDENTLY TO WASTE.
F36	1/2" SHUT OFF VALVE	NONE



RENOVATED PARTIAL POOL PUMP ROOM SCHEMATIC PLAN

SCAL F: 1/8"=1'-0"

P4

PROJECT NORTH

H.H.S. 2018 - 2019 Improvements to the Pool Town of Hamden, Hamden Board of Education Hamden High School 2040 Dixwell Avenue Hamden, CT 06514



SILVER / PETRUCELLI + ASSOCIATES

Architects / Engineers / Interior Designers

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

Date: Revised By:

Renovated Partial Pool
Pump Room Schematic
Plan

Plan

Project Number:
18.048

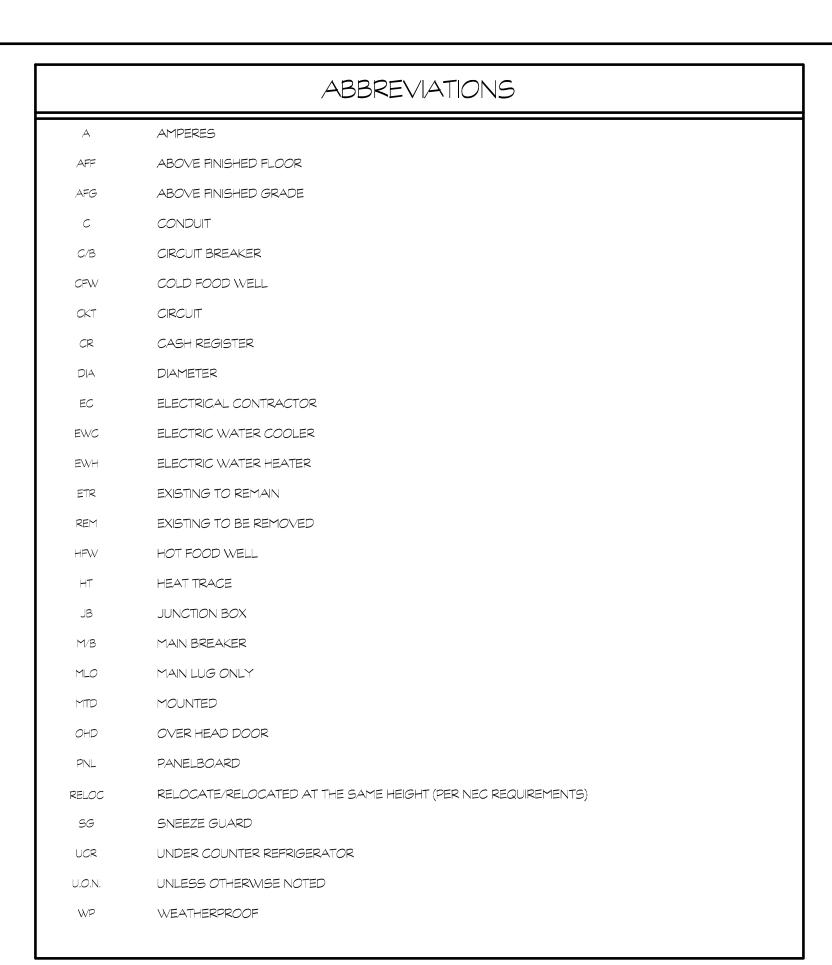
Drawing Number:

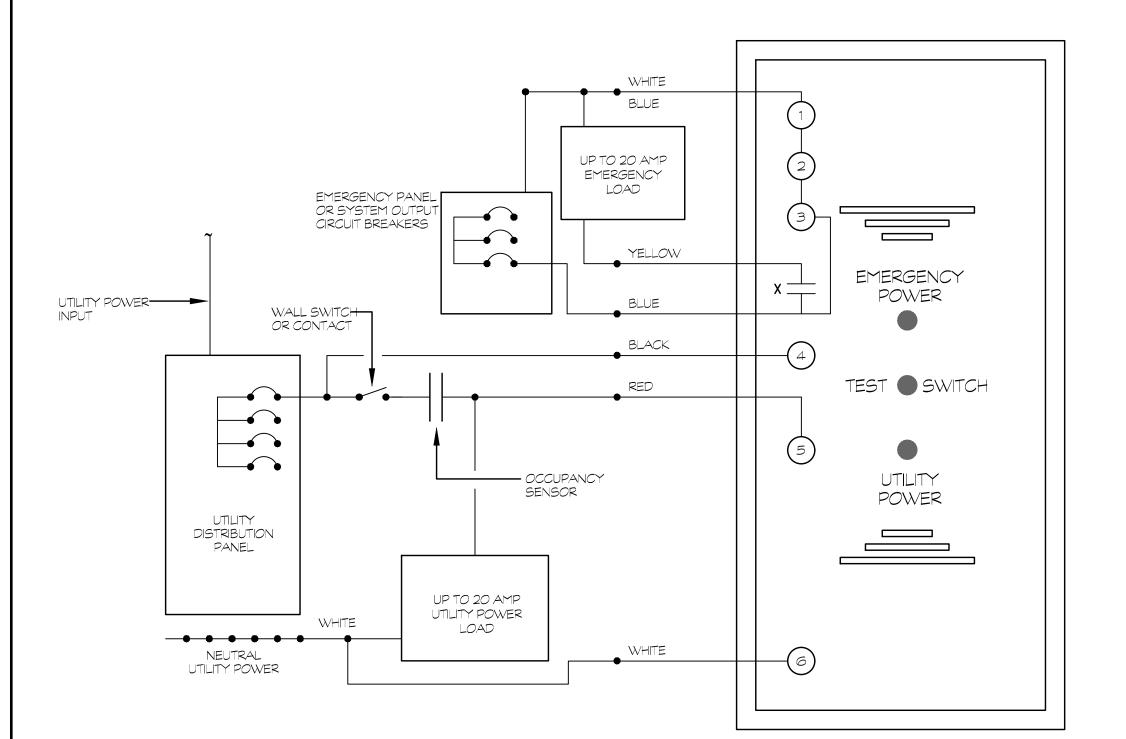
JARY 14, 2019

TO SCALE

By:

Number:





CONTRACTOR SHALL CONFIRM LOAD

SERVED BY RELAY (DIMMING VS. SWITCHED) AND FURNISH THE

APPROPRIATE RELAY

# BY-PASS RELAY NOTES

CIRCUIT #023 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 #46 MONITORS UTILITY POWER AND PROVIDES POWER TO THE AUDIBLE DEVICE. ANY INTERRUPTION WILL CLOSE CONTACT X.
- CIRCUIT # $oldsymbol{eta}$  SENSES WHEN ROOM SWITCH IS ON AND THEN CLOSES CONTACT X, PROVIDING POWER TO THE EMERGENCY LOAD.

UL-924 BY-PASS RELAY WIRING DIAGRAM

# ELECTRICAL LEGEND (NOT ALL SYMBOLS ARE USED)

DISTRIBUTION PANEL, 480/277 VOLT ELECTRICAL PANEL, 480/277 VOLT

ELECTRICAL PANEL, 120/208 VOLT PANELBOARD FLUSH MOUNTED

PANELBOARD SURFACE MOUNTED

NON-FUSED DISCONNECT SWITCH

₩P

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

TYPICAL PENDANT/SURFACE MOUNTED LIGHT FIXTURE; LETTER INDICATES FIXTURE TYPE

LIGHT FIXTURE WIRED TO EMERGENCY BATTERY INVERTER WALL MOUNTED LIGHT FIXTURE

SINGLE FACE EXIT SIGN

SINGLE POLE SWITCH; MOUNT AT 48" AFF 3-WAY SWITCH; MOUNT AT 48" AFF

KEYED SINGLE POLE OR 3-WAY SWITCH; MOUNT AT 48" AFF

DUPLEX 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

DUPLEX RECEPTACLE; MOUNT AT 48" AFF UNLESS OTHERWISE SPECIFIED BRANCH CIRCUIT HOMERUN (VOLTAGE, BRANCH CIRCUIT POLES)

ROUND CEILING SPEAKER

SQUARE CEILING SPEAKER

MICROPHONE OUTLET

120V CONNECTION TO GFI RECEPTACLE FURNISHED WITH MECHANICAL UNIT WIRED BY E.C.

HIGH CEILING MOUNTED OCCUPANCY SENSOR (25 FEET MINIMUM) WITH 360° COVERAGE AND A MINIMUM 25 X 25' COVERAGE PATTERN.

# DEMOLITION AND REMOVALS

THE EXISTING FACILITY WILL BE OCCUPIED AND IN OPERATION DURING THE PERFORMANCE OF THE WORK.

- 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.
- 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.
- 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.

- 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
- 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.
- 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
- 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.
- ALL MATERIALS REQUIRED TO BE REMOVED AND NOT REINSTALLED UNDER THIS DMSION OF THE WORK, UNLESS OTHERWISE INDICATED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR, AND SHALL BE REMOVED FROM THE SITE.
- 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.
- 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
- CONDUIT IN EXISTING OR NEW CEILINGS THAT IS NOT INTENDED FOR REUSE SHALL BE REMOVED BACK TO THE PANEL FROM WHICH IT ORIGINATES.
- 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
- OUTAGES OF EXISTING ELECTRICAL (LIGHTING, POWER, AND SIGNAL) SYSTEMS NECESSITATED BY WORK OF ALL TRADES SHALL BE IN ACCORDANCE WITH FIELD WORK OVERTIME AND SUPERVISION TO COMPLY - CONTRACTOR SHALL OBTAIN OWNER'S GENERAL CONTRACTOR'S APPROVAL PRIOR TO DISRUPTING OF EXISTING ELECTRICAL SYSTEM.
- CONTRACTOR TO MAINTAIN CONTINUITY AND ACCESSIBILITY OF ALL EXISTING SYSTEMS AND SYSTEM EQUIPMENT FEEDERS WHICH MAY BE DISRUPTED FOR WORK
- . 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
- . 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
- D. EXISTING ELECTRICAL EQUIPMENT 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.
- 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.
- 2. 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.
- 3. CONTRACTOR SHALL UTILIZE ALL THE BREAKERS IN THE EXISTING PANELS THAT BECOME AVAILABLE WHEN BRANCH CIRCUITS ASSOCIATED WITH THEM ARE DISCONNECTED AND REMOVED DUE TO DEMOLITION OF THE ELECTRICAL WORK.

# ELECTRICAL MANUFACTURER/ NOTES DESIGNATION DESCRIPTION MODEL NUMBER TYPE VOLTAGE DRIVER TEMP VALL MTD 9" DIA. FULLY ADJUSTABLE LED IGHT FIXTURE (INDIRECT) WITH CUT-OFF IW12060-L380W-PT02-120-277V-4000K-CS 4000K 277 DIMMING BHIELD AND WHITE NATATORIUM FINISH 37,620 LUMEN PACKAGE) SAME AS TYPE AT EXCEPT PENDANT 10UNTED EIP12062-L380W-PT02-120-277V-4000K-CS-0AH DIMMING 4000K 380 ENDANT MTD 9" DIA. FULLY ADJUSTABLE ED LIGHT FIXTURE (INDIRECT) WITH CUT-OFF EIP12063-L127W-PT02-120-277V-4000K-CS-0AH 4000K DIMMING 277 SHIELD AND WHITE NATATORIUM FINISH 2.573 LUMEN PACKAGE) 'ENDANT MTD 3.5" DIA., 8FT LONG FULLY ADJUSTABLE LED WALL WASH LIGHT FIXTURE | EIP11938-L115W-PT02-120-277V-4000K-STM-CS 4000K DIMMING 277 WITH CUT-OFF SHIELD AND WHITE JATATORIUM FINISH (9.830 LUMEN PACKAGE BURFACE MTD 7" X 4" VANDAL RESISTANT LED | LUMINAIRE LED | FIXT. WITH .160" THICK OPAL POLYCARBONATE VPF 84-50W-4000K-120-277-0P-WHT-DIM LENS, ALUMINUM HOUSING W/NATATORIUM FINISH, COLOR BY ARCH. (5477 LUMEN PACK.)

LIGHTING FIXTURE SCHEDULE

- 1. ALL ELECTRONIC DRIVERS SHALL HAVE A MAXIMUM TOTAL HARMONIC DISTORTION OF TEN
- 2. COLOR OF ALL LAMPS SHALL BE 4000K UNLESS OTHERWISE NOTED.
- 3. FURNISH ALL ADDITIONAL MATERIALS AND ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION TO BE FULLY OPERATIONAL.
- 4. ALL ALTERNATE/EQUAL LIGHT FIXTURES AND LIGHTING CONTROLS MUST BE APPROVED BY THE ENGINEER PRIOR TO BID. A POINT BY POINT LIGHTING CALCULATION OF THE POOL MUST BE PROVIDED ALONG WITH CORRESPONDING IES FILES. ALSO WIRING DIAGRAM(S) AND SEQUENCE

OF OPERATION FOR THE LIGHTING CONTROLS NEED TO BE SUBMITTED. PROVIDE A WRITTEN DESCRIPTION OF WHERE THE ALTERNATE SYSTEM MATCHES THE SPECIFIED SYSTEM AND WHERE T DIFFERS. ALTERNATE SYSTEMS ENERGY DEMAND MUST BE EQUAL TO OR BETTER THAN THE SPECIFIED SYSTEM TO BE CONSIDERED.

Date:

Revised By:

# GENERAL NOTES

# BENERAL 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. VIRING & 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. ENSURE THAT ITEMS TO BE FURNISHED FIT THE SPACE AVAILABLE. MAKE NECESSARY

CONNECTIONS, AND PROVIDE SUCH SIZES AND SHAPES OF EQUIPMENT THAT FINAL INSTALLATION SHALL SATISFY THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. LOCATIONS OF OUTLETS, SWITCHES, APPLIANCES, ETC. AS SHOWN ON ELECTRICAL

FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR

- 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.
- 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.
- UNLESS OTHERWISE INDICATED, EXACT ROUTING OF RACEWAYS SHALL BE DETERMINED BY THE CONTRACTOR TO SUIT PROJECT REQUIREMENTS AND FIELD CONDITIONS.
- PROVIDE SEPARATE RACEWAYS, JUNCTION BOXES, PULL BOXES AND WIREWAYS FOR ALL EMERGENCY SYSTEM WIRING.

- 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

CARRYING CONDUCTORS IN CONDUIT.

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>	HOME RUN	CONDUIT SIZE
	WIRE SIZE	WIRE SIZE	(8 WIRES/CONDUIT)
0' TO 50'	#12	#12	3/4"
51' TO 100'	#12	#1 <i>0</i>	3/4"
101' TO 200'	#10	#8	1"

GREATER THAN 200' - REQUEST DIRECTION FROM ARCHITECT. NOTE: PROVIDE DERATING PER CODE WHEN INSTALLING MORE THAN 3 CURRENT

- 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.
- WHERE GREATER THAN THREE (3) CURRENT-CARRYING CONDUCTORS ARE INSTALLED IN ANY ONE CONDUIT OR CABLE, CONDUCTORS MUST BE DERATED AND SIZES INCREASED, IF NEEDED, TO ACCOMMODATE CONDUCTOR DERATING AS REQUIRED BY
- CONDUCTORS SHALL BE COMPLETELY INSTALLED AND CONNECTED. PROVIDE ALL TERMINALS, LUGS, AND CONNECTORS TO SUIT THE APPLICATION, AND IN COMPLIANCE WITH EQUIPMENT MANUFACTURERS' RECOMMENDATIONS.
- UNDER NO CIRCUMSTANCES SHALL ANY SWITCH OR CIRCUIT BREAKER BREAK A NEUTRAL CONDUCTOR.
- 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:
- LOADS ON PANEL BUSSES SHALL BE PHASE-BALANCED AS EVENLY AS POSSIBLE.

# ROUNDING INSTALLATION

OTHERWISE NOTED.

- EQUIPMENT GROUNDING 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
- INCLUDE AN INSULATED GROUND CONDUCTOR IN ALL CONDUIT RUNS CONTAINING SECTIONS OF FLEXIBLE CONDUIT UNLESS OTHERWISE NOTED.
- INCLUDE AN INSULATED GROUND CONDUCTOR IN ALL BRANCH CIRCUIT RACEWAYS OR CABLES UNLESS OTHERWISE NOTED.

MECHANICAL EQUIPMENT WIRING:

- 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 DIVISION 23 AND WIRED BY DIVISION 26. 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
- 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:

- 1. 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 -MECHANICAL 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.
- 5. 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.

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

# 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 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:

CONTRACT DRAWINGS OR APPROPRIATE SHOP

OPERATING INSTRUCTIONS.

- A. INCLUDE ALL CHANGES AND AN ACCURATE RECORD, ON REPRODUCTIONS OF THE
- B. DRAWINGS, OF ALL DEVIATIONS, BETWEEN THE WORK SHOWN AND WORK INSTALLED.
- C. EQUIPMENT LOCATIONS (EXPOSED AND CONCEALED), DIMENSIONED FROM PROMINENT
- D. APPROVED SUBSTITUTIONS, CONTRACT MODIFICATIONS, AND ACTUAL EQUIPMENT AND MATERIALS INSTALLED.
- E. CONTRACT MODIFICATIONS, ACTUAL EQUIPMENT AND MATERIALS INSTALLED.

F. SUBMIT FOR REVIEW BOUND SETS OF THE REQUIRED DRAWINGS, MANUALS AND

G. SUBMIT A COMPLETE MAINTENANCE MANUAL OF ALL EQUIPMENT INSTALLED UNDER

	ELECTRICAL DRAWING LIST
DRAWING NUMBER	DRAWING DESCRIPTION
E1	SYMBOLS, NOTES, ABBREVIATIONS, SCHEDULES & DETAILS - ELECTRICAL
E2	LOWER LEVEL DEMOLITION PLAN (POOL) - ELECTRICAL
E3	LOWER LEVEL PLAN (POOL) - ELECTRICAL
E4	THIRD FLOOR/ROOF DEMOLITION PLAN (POOL) - ELECTRICAL
E5	THIRD FLOOR/ROOF PLAN (POOL) - ELECTRICAL



SILVER / PETRUCELLI + ASSOCIATES

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

Architects / Engineers / Interior Designers silverpetrucelli.com

Symbols, Notes, Abbrev., Schedules & Details - Electrical

Drawing Number: JANUARY 14, 2019 E1Drawn By: Project Number: 18.048

H.H.S. 2018 - 2019 Improvements to the Pool Town of Hamden, Hamden Board of Education Hamden High School 2040 Dixwell Avenue Hamden, CT 06514



Lower Level Demo. Plan (Pool) - Electrical

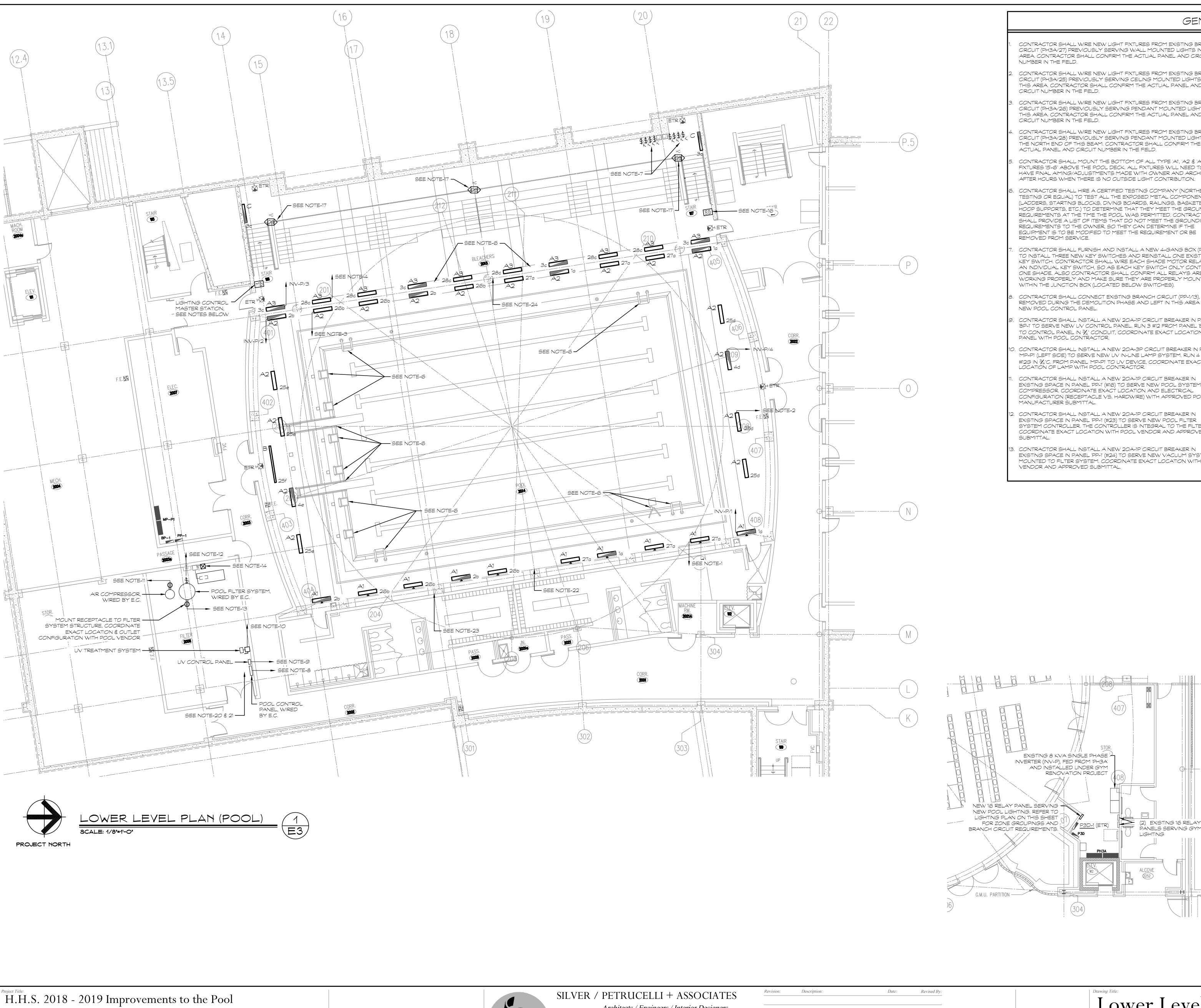
Drawing Number: JANUARY 14, 2019 E2

Project Number:

18.048

Revised By:

Date:



GENERAL NOTES

CONTRACTOR SHALL WIRE NEW LIGHT FIXTURES FROM EXISTING BRANCH CIRCUIT (PH3A/27) PREVIOUSLY SERVING WALL MOUNTED LIGHTS IN THIS AREA. CONTRACTOR SHALL CONFIRM THE ACTUAL PANEL AND CIRCUIT

CONTRACTOR SHALL WIRE NEW LIGHT FIXTURES FROM EXISTING BRANCH CIRCUIT (PH3A/25) PREVIOUSLY SERVING CEILING MOUNTED LIGHTS IN THIS AREA. CONTRACTOR SHALL CONFIRM THE ACTUAL PANEL AND CIRCUIT NUMBER IN THE FIELD.

CONTRACTOR SHALL WIRE NEW LIGHT FIXTURES FROM EXISTING BRANCH CIRCUIT (PH3A/26) PREVIOUSLY SERVING PENDANT MOUNTED LIGHTS IN THIS AREA. CONTRACTOR SHALL CONFIRM THE ACTUAL PANEL AND

CONTRACTOR SHALL WIRE NEW LIGHT FIXTURES FROM EXISTING BRANCH CIRCUIT (PH3A/28) PREVIOUSLY SERVING PENDANT MOUNTED LIGHTS AT THE NORTH END OF THIS BEAM. CONTRACTOR SHALL CONFIRM THE ACTUAL PANEL AND CIRCUIT NUMBER IN THE FIELD.

CONTRACTOR SHALL MOUNT THE BOTTOM OF ALL TYPE 'A1', 'A2' & 'A3' FIXTURES 15'-6" ABOVE THE POOL DECK. ALL FIXTURES WILL NEED TO HAVE FINAL AIMING/ADJUSTMENTS MADE WITH OWNER AND ARCHITECT AFTER HOURS WHEN THERE IS NO OUTSIDE LIGHT CONTRIBUTION.

CONTRACTOR SHALL HIRE A CERTIFIED TESTING COMPANY (NORTHEAST TESTING OR EQUAL) TO TEST ALL THE EXPOSED METAL COMPONENTS (LADDERS, STARTING BLOCKS, DIVING BOARDS, RAILINGS, BASKETBALL HOOP SUPPORTS, ETC.) TO DETERMINE THAT THEY MEET THE GROUNDING REQUIREMENTS AT THE TIME THE POOL WAS PERMITTED. CONTRACTOR SHALL PROVIDE A LIST OF ITEMS THAT DO NOT MEET THE GROUNDING REQUIREMENTS TO THE OWNER, SO THEY CAN DETERMINE IF THE EQUIPMENT IS TO BE MODIFIED TO MEET THE REQUIREMENT OR BE

CONTRACTOR SHALL FURNISH AND INSTALL A NEW 4-GANG BOX (PVC) TO INSTALL THREE NEW KEY SWITCHES AND REINSTALL ONE EXISTING KEY SWITCH. CONTRACTOR SHALL WIRE EACH SHADE MOTOR RELAY TO AN INDIVIDUAL KEY SWITCH, SO AS EACH KEY SWITCH ONLY CONTROLS ONE SHADE. ALSO CONTRACTOR SHALL CONFIRM ALL RELAYS ARE WORKING PROPERLY AND MAKE SURE THEY ARE PROPERLY MOUNTED WITHIN THE JUNCTION BOX (LOCATED BELOW SWITCHES).

CONTRACTOR SHALL CONNECT EXISTING BRANCH CIRCUIT (PP-1/13), REMOVED DURING THE DEMOLITION PHASE AND LEFT IN THIS AREA TO NEW POOL CONTROL PANEL.

CONTRACTOR SHALL INSTALL A NEW 20A-1P CIRCUIT BREAKER IN PANEL BP-1' TO SERVE NEW UV CONTROL PANEL. RUN 3 #12 FROM PANEL BP-1' TO CONTROL PANEL IN  $rac{3}{4}$ " CONDUIT, COORDINATE EXACT LOCATION OF PANEL WITH POOL CONTRACTOR.

D. CONTRACTOR SHALL INSTALL A NEW 20A-3P CIRCUIT BREAKER IN PANEL "MP-P1" (LEFT SIDE) TO SERVE NEW UV IN-LINE LAMP SYSTEM. RUN 4 #12 + #12G IN 3/4"C. FROM PANEL 'MP-P1' TO UV DEVICE, COORDINATE EXACT LOCATION OF LAMP WITH POOL CONTRACTOR.

EXISTING SPACE IN PANEL 'PP-1' (#16) TO SERVE NEW POOL SYSTEM AIR COMPRESSOR. COORDINATE EXACT LOCATION AND ELECTRICAL CONFIGURATION (RECEPTACLE VS. HARDWIRE) WITH APPROVED POOL MANUFACTURER SUBMITTAL.

2. CONTRACTOR SHALL INSTALL A NEW 20A-1P CIRCUIT BREAKER IN EXISTING SPACE IN PANEL 'PP-1' (#23) TO SERVE NEW POOL FILTER SYSTEM CONTROLLER. THE CONTROLLER IS INTEGRAL TO THE FILTER, COORDINATE EXACT LOCATION WITH POOL VENDOR AND APPROVED

CONTRACTOR SHALL INSTALL A NEW 20A-1P CIRCUIT BREAKER IN EXISTING SPACE IN PANEL 'PP-1' (#24) TO SERVE NEW VACUUM SYSTEM MOUNTED TO FILTER SYSTEM. COORDINATE EXACT LOCATION WITH POOL VENDOR AND APPROVED SUBMITTAL.

4. CONTRACTOR SHALL INTERCEPT THE EXISTING BRANCH CIRCUIT (MP-P1/8,10,12) CURRENTLY FEEDING POOL PUMP MOTOR IN FRONT OF EXISTING DISCONNECT SWITCH AND FURNISH AND INSTALL A NEW SIZE 2 STARTER. INSTALL CONTROL WIRING FROM STARTER TO NEW POOL CONTROLLER, COORDINATE WIRING REQUIREMENTS WITH POOL VENDOR AND APPROVED SUBMITTAL.

5. CONTRACTOR SHALL FURNISH AND INSTALL A UL 924 BY-PASS RELAY ON EACH CONTROL CIRCUIT THAT HAS BOTH NORMAL AND EMERGENCY CIRCUITS ON IT (4 REQUIRED, SWITCH LEGS a, b, c \$ d). COORDINATE

LOCATION OF RELAYS WITH OWNER TO ALLOW FOR CIRCUITS TO BE 5. LIGHTING CONTROL REMOTE ENTRY STATION SWITCH, REFER TO LIGHTING

CONTROL NOTES BELOW.

MANUAL OFF DEVICE.

CONTRACTOR SHALL FURNISH AND INSTALL CEILING MOUNTED OCCUPANCY SENSORS TO CONTROL THE LIGHTS SERVING THE BLEACHER/VIEWING AREA (SWITCH LEG "c"). THE SENSORS WILL PROVIDE NORMAL ON-OFF CONTROL WITH THE KEY SWITCH PROVIDING A LOCAL

8. CONTRACTOR SHALL UPDATE ALL PANEL BOARD DIRECTORIES (TYPED OUT) EFFECTED AS PART OF THIS PROJECT.

). ALL NEW EXPOSED CONDUIT AND FITTINGS INSTALLED IN THE POOL #2014 AND FILTER #2006 ROOMS SHALL BE RGS, PAINTED TO MATCH WALLS/CEILING. ALL OTHER CONDUIT REQUIREMENTS, REFER TO

20. CONTRACTOR SHALL FURNISH AND INSTALL A NETWORK CONNECTION (CAT 5e/6) FROM LOCAL I.T. CLOSET (FIRST FLOOR WEST BLDG.) ROOM #2106 ACROSS FROM ASSISTANT PRINCIPAL ROOM #2105, APPROXIMATELY 200 FEET. CONTRACTOR TO CONFIRM ROUTE DOES NOT EXCEED 300 FEET, IF SO CONTRACTOR SHALL FURNISH AND INSTALL A FIBER OPTIC CONNECTION IN LIEU OF CAT 5e/6. TERMINATE IN CONTROL PANEL(S), COORDINATE WITH APPROVED MANUFACTURER.

21. CONTRACTOR SHALL CONFIRM ALL ELECTRICAL CONNECTIONS WITH APPROVED POOL EQUIPMENT AND MAKE ALL NECESSARY CHANGES AT NO COST TO OWNER.

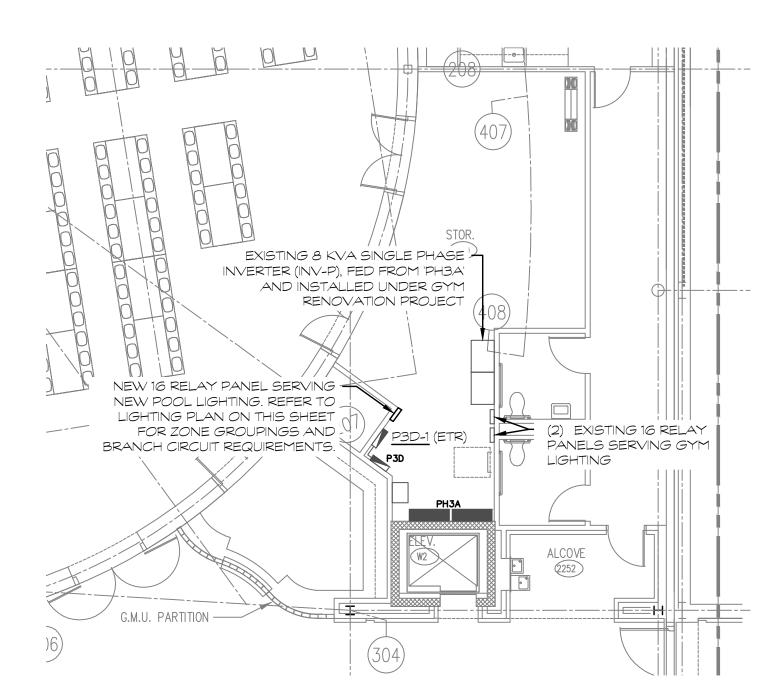
22. CONTRACTOR SHALL PERMANENTLY MOUNT THE DUPLEX AND QUAD RECEPTACLES CURRENTLY TIE WRAPPED TO THE UNISTRUT ON THE SIDE OF THE EXISTING SCOREBOARD TO THE WALL OR UNISTRUT. THEN INSTALL NEW PVC CONDUIT FROM THE EXISTING JUNCTION/PULL BOX ADJACENT TO THE COLUMN UP TO THE TWO RECEPTACLES. ALSO INSTALL A TOGGLE SWITCH WITH WEATHERPROOF IN-USE COVER (MATCH TIME CLOCK SWITCHES) TO CONTROL POWER TO RECEPTACLES. MOUNT TOP OF SWITCH BOX AT 48" AFF AND EXTEND EXISTING BRANCH CIRCUIT WIRING IN JUNCTION/PULL BOX UP TO RECEPTACLES.

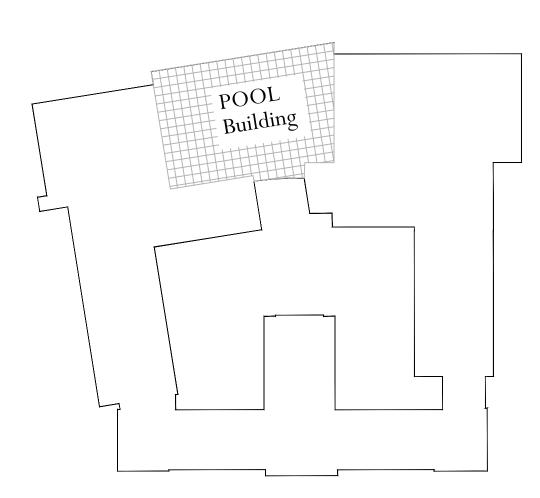
23. CONTRACTOR SHALL RECONNECT/REPAIR EXISTING PVC CONDUIT ADJACENT TO JUNCTION/PULL BOX EXPOSING BRANCH CIRCUIT WIRING.

24. CONTRACTOR SHALL RECONNECT/REPAIR EXISTING PVC CONDUIT ADJACENT TO JUNCTION/PULL BOX EXPOSING BRANCH CIRCUIT WIRING AND PERMANENTLY MOUNT JUNCTION/PULL BOX TO COLUMN.

# POOL LIGHTING CONTROL REQUIREMENTS

CONTRACTOR SHALL INSTALL A COMPLETE DIMMING SYSTEM. SYSTEM SHALL INCLUDE THE FOLLOWING: ONE ON/OFF ENTRY STATION (ABL-nLIGHT #NPODM 1SB WH OR EQUAL), LOCATED AT THE NORTH SIDE CORRIDOR ENTRANCE WHERE THE OLD KEY SWITCHES WERE INSTALLED. ONE 16 ZONE RELAY PANEL 'NORMAL' & 'EMERGENCY' (ABL-nLIGHT #ARP INTENC16 NLT 16SPR MVOLT 2VB SC SM) LOCATED IN THE STORAGE CLOSET OFF THE CAFETERIA OPPOSITE THE INVERTER INSTALLED UNDER THE GYM PROJECT. ONE 7" TOUCH SCREEN MASTER CONTROLLER (ABL-FRESCO #FCS 7TSN DBL OR EQUAL) LOCATED AT THE SOUTH CORRIDOR ENTRANCE WHERE THE OLD KEY SWITCHES WERE INSTALLED AND A PROGRAMMING TOOL (ABL-nLIGHT #NCOMKIT OR EQUAL) WITH SYSTEM STARTUP FROM MANUFACTURER. ALSO ALL CEILING MOUNTED OCCUPANCY SENSOR NEED TO BE COMPATIBLE WITH THE DIMMING SYSTEM (ABL-NLIGHT #NCM 6 RJB OR EQUAL). CONTRACTOR SHALL FURNISH AND INSTALL A GASKETED LOCKABLE CABINET FOR THE ENTRY STATION AND THE MASTER CONTROLLER. THE COVERS/CABINETS SHALL BE LESS THAN 4" DEEP TO MEET ADA. IF CABINETS ARE DEEPER THAN 4", CONTRACTOR SHALL SEMI-RECESS THEM IN THE EXISTING BLOCK WALL. CABINETS SHALL BE PAINTED TO MATCH THE WALLS.





KEY PLAN

Town of Hamden, Hamden Board of Education Hamden High School 2040 Dixwell Avenue Hamden, CT 06514



Architects / Engineers / Interior Designers

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

Lower Level Plan (Pool) - Electrical

JANUARY 14, 2019

SEC

Project Number:

18.048

E3 Drawn By:

Drawing Number:

