WCC:

MR. ROBERT CIRILLO

MR. MICHAEL BELFORE

MR. RICHARD GENNARO

WESTCHESTER COMMUNITY COLLEGE CONSTRUCTION AND INTERIOR RENOVATION

PROPERTY INFORMATION TABLE TOWN OF VALHALLA MUNICIPALITY STATE OF NEW YORK WESTCHESTER COUNTY ADDRESS 75 GRASSLANDS RD. WESTCHESTER COMMUNITY COLLEGE | WESTCHESTER COMMUNITY COLLEGE OWNER

PLANS ARE FOR THE RENOVATION OF THE WALLS AND FLOORING OF PARTS OF THE 2 STORY BUILDING AS WELL AS WATERPROOFING THE BUILDING TO PREVENT LEAKS.

CODE COMPLIANCE:

PROJECT DRAWINGS. SPECIFICATIONS ARE IN COMPLIANCE WITH THE STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, STATE ENERGY CONSERVATION CONSTRUCTION CODE

DRAZEN CACKOVIC R.A.

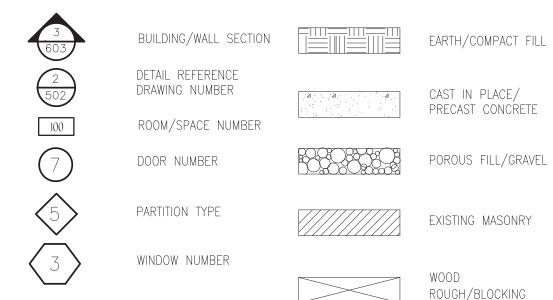
GENERAL NOTES

- CONSTRUCTION SHALL CONFORM TO THE ATTACHED DRAWINGS.
- THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL EXISTING CONDITIONS AND DIMENSIONS AT THE SITE. IF THERE IS ANY VARIATION FROM THESE DRAWINGS, THE CONTRACTOR IS DIRECTED TO NOTIFY THE OWNER AND THE ARCHITECT OF THESE BEFORE PROCEEDING.
- ALL DIMENSIONS AND LOCATIONS AS INDICATED ON THE DRAWINGS SHALL BE CONSIDERED AS REASONABLY CORRECT, BUT IT SHALL BE UNDERSTOOD THAT THEY ARE SUBJECT TO MODIFICATIONS AS MAY BE NECESSARY OR DESIRABLE AT THE TIME OF INSTALLATION TO MEET ANY UNFORESEEN OF OTHER CONDITIONS.
- THE CONTRACTOR SHALL NOT SCALE THE DRAWING. IF ANY DIMENSIONS ARE FOUND TO BE MISSING, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT BEFORE PROCEEDING.
- THE CONTRACTOR SHALL PROVIDE DEMOLITION, REMOVAL AND LEGAL DISPOSAL OF ALL EXISTING BUILDING AND SITE STRUCTURES, FINISHES AND CONDITIONS AS REQUIRED TO COMPLETE THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL ADJACENT AREAS TO REMAIN. FROM DAMAGE DUE TO DEMOLITION OR CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT OCCURS TO ADJACENT AREAS TO REMAIN, DUE TO THEIR WORK.
- THE CONTRACTOR SHALL CONFIRM THE SALVAGEABILITY OF ANY AND ALL READILY SALVAGEABLE ITEMS WHETHER OR NOT THEY ARE SPECIFICALLY NOTED ON THE DRAWINGS, WITH THE OWNER. THOSE ITEMS DIRECTED TO BE SALVAGED SHALL BE CAREFULLY REMOVED AND STORED IN PREPARATION FOI REINSTALLATION AS COORDINATED WITH THE OWNER.
- ALL EXTERIOR OPENINGS WHERE WORK IS PERFORMED SHALL BE PROPERLY CAULKED, FLASHED AND WEATHER-STRIPPED.
- PATCHING OF EXISTING FLOORS AND/OR WALLS WHERE REQUIRED SHALL BE SMOOTH AND UNIFORM WITH EXISTING FINISHES.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CUT SHEETS TO THE ARCHITECT FOR APPROVAL PRIOR TO COMMENCING WITH THAT PORTION OF THE WORK FOR THE ITEMS LISTED IN CONSTRUCTION DRAWINGS & SPECIFICATIONS.
- O. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL EXISTING PLUMBING AND ELECTRICAL SYSTEMS AFFECTED BY THE WORK.
- . ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE BUILDING CODE OF THE STATE OF NEW YORK AND ALL APPLICABLE STATE CODES, FEDERAL REGULATIONS, THE NATIONAL BOARD OF FIRE UNDERWRITERS AND ALL APPLICABLE LOCAL LAWS AND REGULATIONS.
- 2. ALL EQUIPMENT SUPPLIED BY THE CONTRACTOR SHALL HAVE MEA OR BSA APPROVAL FOR USE IN THE STATE OF NEW YORK.
- 3. PROVIDE AND MAINTAIN NECESSARY COVERINGS AND BOARDING TO PROTECT EXISTING WORK AND FINISHES. UPON COMPLETION, REMOVE ALL PROTECTION, CLEAN ALL EXPOSED SURFACES AND LEAVE ALL SPACES IN A CLEAN, ORDERLY CONDITION AND BROOM SWEPT. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE CAUSED BY IMPROPER PROTECTION AND SHALL REPAIR ANY DAMAGE CAUSED WITHOUT EXTRA CHARGE TO THE CLIENT.
- 4. THE CONTRACTOR SHALL REMOVE ALL DEBRIS FROM JOB SITE AND KEEP CONDITIONS MAINTAINED IN A SAFE AND ACCESSIBLE FASHION.
- 5. THERE SHALL BE NO CHANGE TO THE EXISTING EGRESS, USE OR OCCUPANCY UNDER THE SCOPE OF THIS APPLICATION.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ELECTRICAL POWER DURING CONSTRUCTION AND TEMPORARY ELECTRIC LIGHTING FOR ALL PORTIONS OF THE WORK.
- 7. PROVIDE ADEQUATE SHORING FOR ALL STRUCTURAL REMOVALS TO PREVENT SETTLEMENT OR COLLAPSE PRIOR TO NEW STRUCTURAL INSTALLATIONS.
- 8. ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS APPLYING TO THE CONTRACTOR, SHALL ALSO APPLY TO ALL THE CONTRACTORS SUB-CONTRACTORS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUBCONTRACTOR CONFORMANCE WITH THOSE REQUIREMENTS.
- 9. THE TERM 'CONTRACTOR' SHALL REFER TO THE SELECTED CONTRACTOR AND/OR GENERAL CONTRACTOR.
- O. ALL TEMPORARY ELECTRICAL EQUIPMENT AND WIRING SHALL MEET THE REQUIREMENTS OF THE ELECTRICAL CODE OF NEW YORK STATE, AND SHALL BE MAINTAINED TO MEET SUCH REQUIREMENTS. PORTIONS OF PERMANENT ELECTRICAL INSTALLATIONS MAY BE USED FOR TEMPORARY OPERATIONS PROVIDED THE REQUIREMENTS OF THE ELECTRICAL CODE ARE MET.
- 1. ALL EXPOSED, ELECTRICALLY CHARGED, MOVING OR OTHERWISE DANGEROUS PARTS OF MACHINERY AND CONSTRUCTION EQUIPMENT SHALL BE LOCATED, GUARDED, SHIELDED, OR BARRICADED SO AS TO PREVENT CONTACT BY THE PUBLIC.
- 22. LINES, WIRES, ROPES, PIPES, CHAINS ETC. SHALL BE LOCATED SO THAT THEY WILL NOT CONSTITUTE A TRIPPING HAZARD.
- 3. ALL AREAS USED BY THE PUBLIC SHALL BE MAINTAINED FREE FROM ICE, SNOW, GREASE, DEBRIS, EQUIPMENT, MATERIALS, PROJECTIONS, TOOLS, OR OTHER ITEM, SUBSTANCE OR CONDITION THAT MAY CONSTITUTE SLIPPING, TRIPPING OR OTHER HAZARD.
- 4. WHEN NOT BEING USED, MATERIAL, EQUIPMENT AND TOOLS THAT MIGHT FALL FROM LEVELS ABOVE AREAS USED BY THE PUBLIC SHALL BE KEPT AWAY FROM EDGES OR OPENINGS.
- 5. WASTE DUMPSTER AND DEBRIS BOXES SHALL BE SECURED AND THOSE CONTAINING MATERIAL OR DEBRIS SHALL BE COVERED AT THE END OF EACH WORKDAY.
- 5. WASTE MATERIAL SHALL NOT BE PERMITTED TO ACCUMULATE AND SHALL BE PROPERLY DISPOSED OF IN DEBRIS CONTAINERS AT REASONABLE INTERVALS.
- 27. ALL SURFACES ADJOINING PAVED SURFACES AND/OR WALKING SURFACES, SHALL BE EVEN AND AT THE SAME ELEVATION AS THE PAVED SURFACE. THIS INCLUDES SURFACES SUCH AS LOANS, GRASS. PLANTING BEDS AND OTHER FINISH SURFACES. WHEN TWO DISSIMILAR PAVING SURFACES OR WALKING SURFACES ARE ABUTTING, THEY SHALL BE EVEN AND AT THE SAME ELEVATION, WITHOUT ANY TRIPPING HAZARDS.

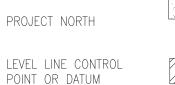
ABBREVIATIONS MAX MAXIMUM ABOVE FINISHED FLOOR MFR MANUFACTURER ALUMINUM STANDARDS INSTITUTE APPROXIMATE, APPROXIMATELY BOTTOM OF NUMBER NOT APPLICABLE CLOSED-CIRCUIT TELEVISION OUTSIDE DIAMETER CONTROL JOINT P LAM PLASTIC LAMINATE PARTITION, PARTIA PBSM POSTAGE BOOKLET CONCRETE MASONRY UNIT STAMP MACHINE CONSTRUCTION JOINT PLYWD PLYWOOD POINT OF SALE CONCRETE PAINTED CONTINUOUS PL PLATE RECEP RECEPTACLE CONTRACTING OFFICER DOWNSPOUT REF REFER, REFERENCE REQ'D REQUIRED DISPLAY OR DISPENSER ROUGH OPENING EXPANSION JOINT ELECTRICAL WATER COOLER SÖLID CORE WOOD STAINLESS STEEL ELECTRIC, ELECTRICAL EXPANSION SHTS SIM EXTERIOR FIRE EXTINGUISHER SM SURFACE MOUNTED FACTORY FINISH SPECS SPECIFICATIONS T & G TONGUE AND GROOVE TO BE REMOVED TELEPHONE GENERAL CONTRACTOR GYPSUM THICKNESS THRESH THRESHOLD HOSE BIBB TOP OF HARDWARF TYPICAL UNLESS OTHERWISE NOTED UON HOLLOW METAL UNITED STATES POSTAL USPS SERVICE INSIDE DIAMETER VINYL COMPOSITION TILE ISOLATION JOINT VERIFY IN FIELD INSULATION WIDE INTERIOR WITH INTEGRATED RETAIL TERMINAL JANITOR WWF WELDED WIRE FABRIC

DRAWING SYMBOLS

DETAIL SYMBOLS

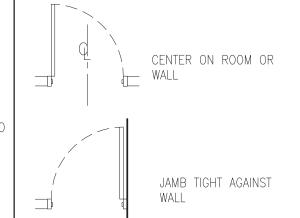




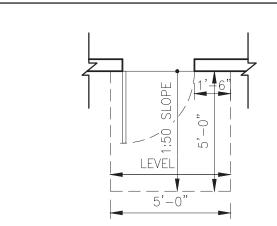




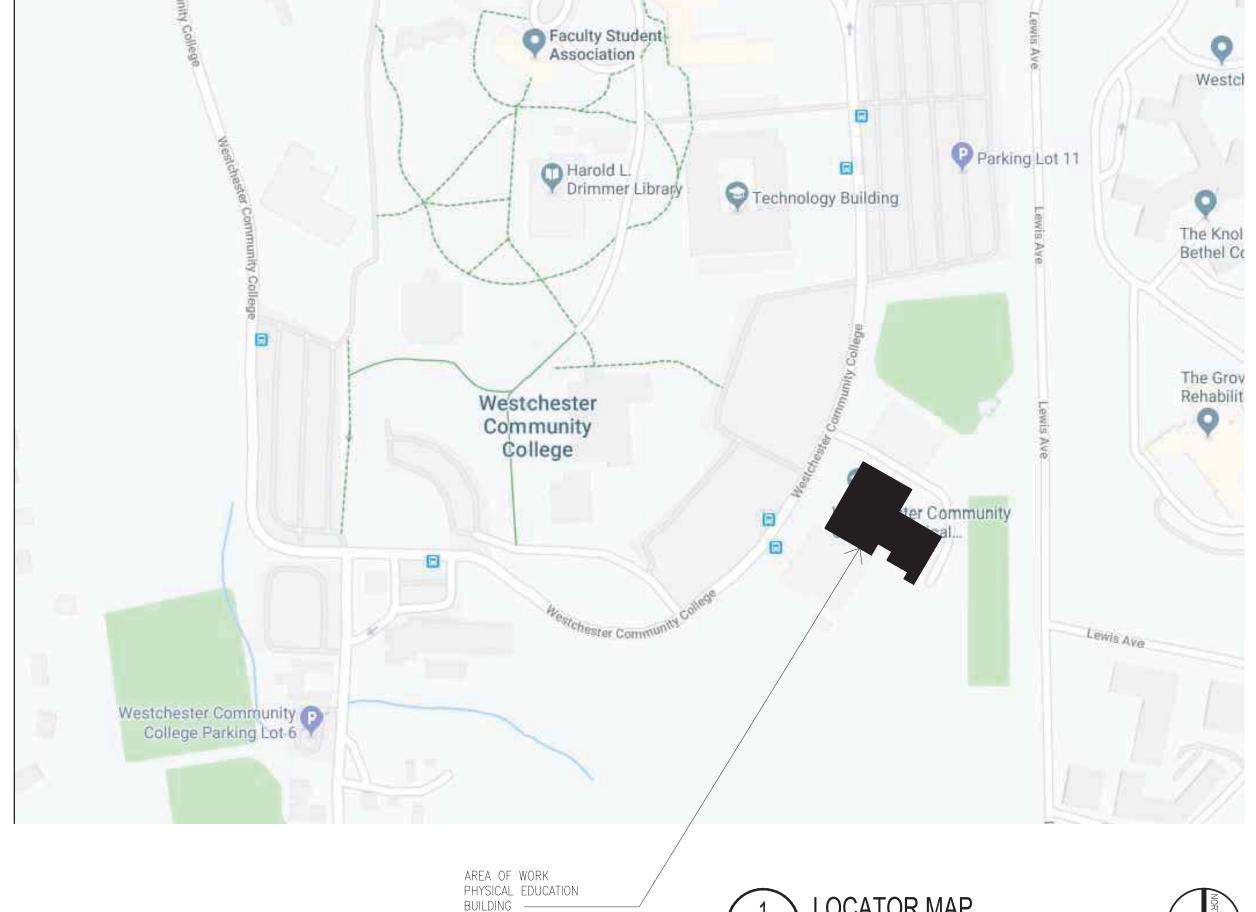




UNLESS OTHERWISE NOTED



STANDARD HORIZONTAL SLOPE @ ALL ENTRANCE DOORS UNLESS OTHERWISE NOTED. NOTE: ALL WALKWAYS 1:20 MAXIMUM W/ 1:50 CROSS SLOPE



#	DRAWING NAME	ISSU BID, CON	UED FOR , PERMIT, NSTRUCTION	REVISION 1	REVISION 2	REVISION 3	REVISION 4
T-001	TITLE SHEET, GENERAL NOTES & LOCATION PLAN						
G-010	CABO-ANSI A117.1 2007 STANDARDS-COMMERCIAL						
A-101D	FIRST FLOOR DEMOLITION PLAN						
A-102D	SECOND FLOOR DEMOLITION PLAN						
A-101	FIRST FLOOR PLAN						
A-102	SECOND FLOOR PLAN						
A-102	FLOOR PATTERN PLAN						
A-310 A-500	ROOM 56 ELEVATIONS WALL SECTION AND DETAILS						
A-500 A-706	FINISH SCHEDULES						
71 700	THIST SOTEDULES						



53 HUDSON AVENUE NYACK, NEW YORK 10960 www.DCAK-MSA.com

Γel 845-353-1300 Fax 845-353-161

Email: info@DCAK-MSA.com

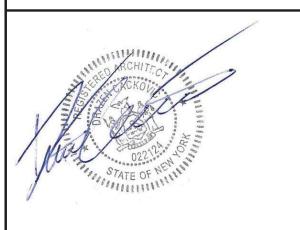
L COPYRIGHT ON INTELLECTUAL PROPERTY CONTAINED HEREIN. HICH SHALL NOT BE REPRODUCED OR USED FOR FURTHER DEVELOPMENT OF THE PROJECT UNLESS SPECIFICALLY AUTHORIZED IN WRITING BY DCAK-MSA ARCHITECTURE AND NGINEERING. THIS DRAWING SHALL NOT BE CONSIDERED AN AUTHORIZED COPY ISSUED FROM THE ARCHITECT UNLESS THE ORIGINAL SEAL AND ORIGINAL SIGNATURE ARE AFFIXED.

Project Name:

RENOVATION OF PHYSICAL **EDUCATION BUILDING** INFRASTRUCTURE

Project Address: VALHALLA, NY

Consultants

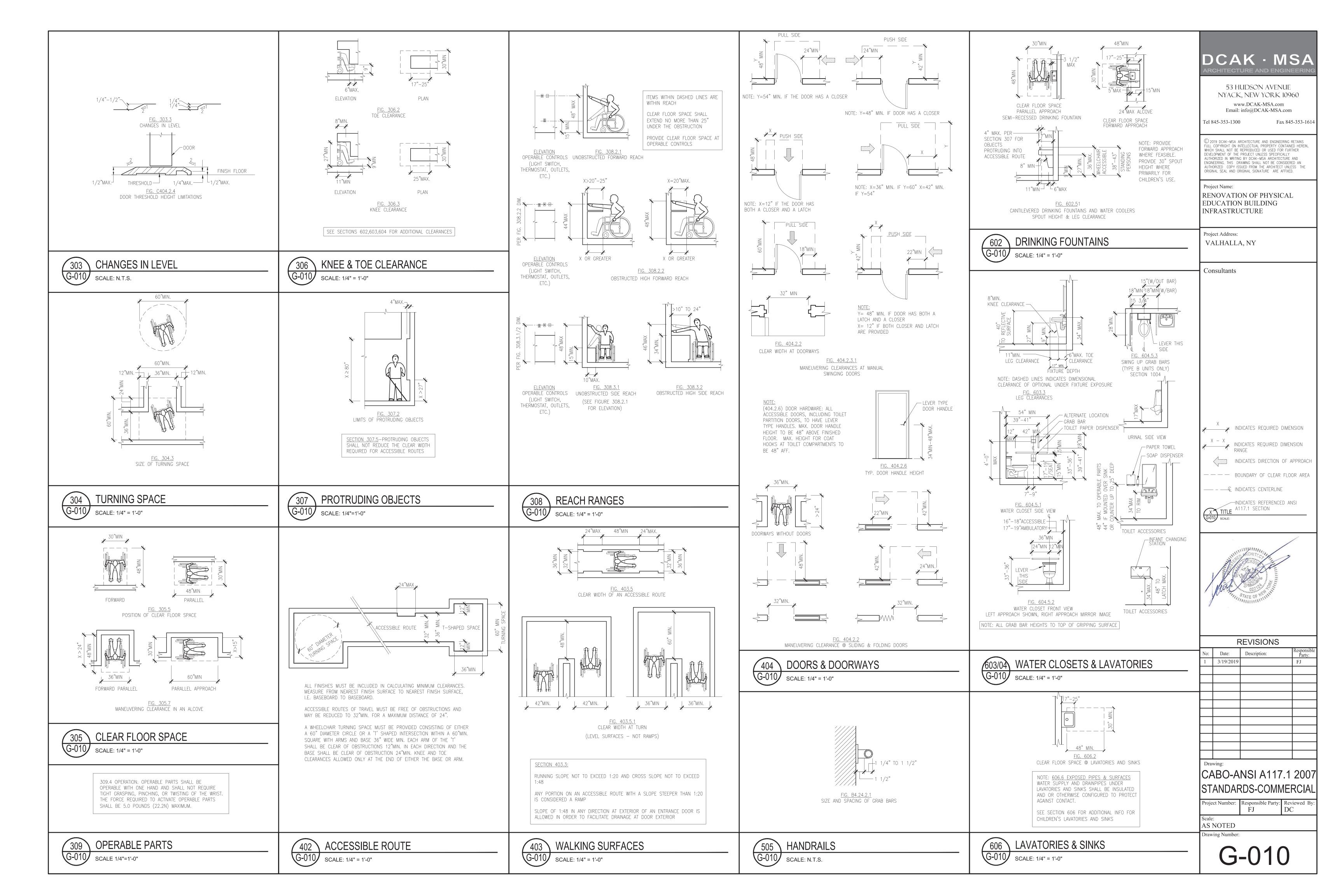


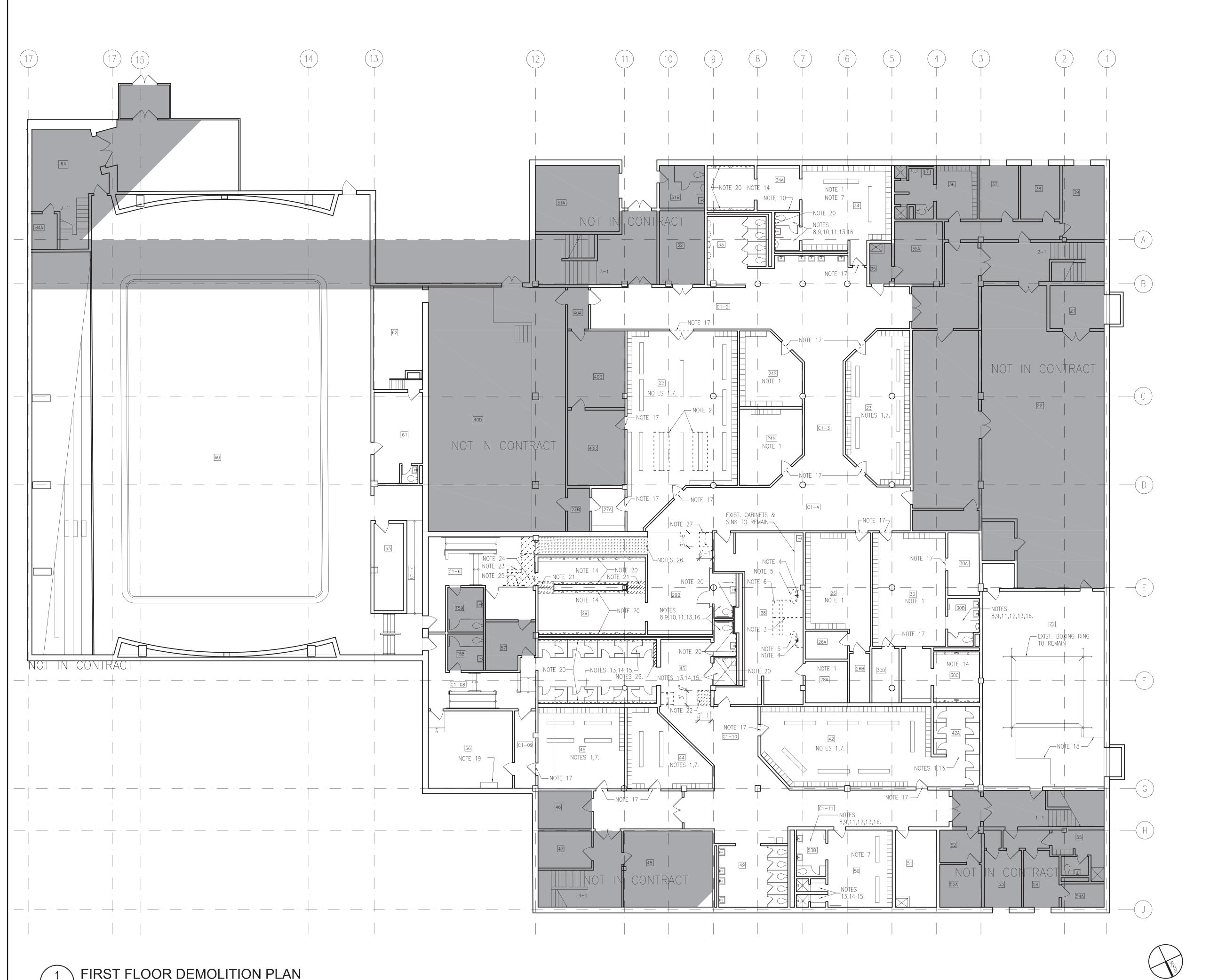
REVISIONS

No:	Date:	Description:	Party
-	3/9/2020	ISSUED	AJ
Dra	wing:		
Τl¯	TLE SI	HEET	

18041 AS NOTED

Drawing Number:





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

GENERAL NOTES:

A. ALL WALL MOUNTED FIXTURES (SIGNS, EL. SWITCHES & OUTLETS, FIRE ALARM & SUPPRESSION DEVICES, WALL MOUNTED OR RECESSED PANELS & CABINETS, E.T.C.) ON THE WALLS SCHEDULED TO RECEIVE NEW TILE, TO BE TEMPORARILY REMOVED AND STORED.

B. ALL TEMPORARILY REMOVED ITEMS TO BE REINSTALLED AT THE ORIGINAL LOCATION AFTER INSTALLATION OF NEW WALL OR FLOOR TILES U.N.O.

C. IF CONDITIONS NOT SPECIFIED IN CONTRACT DOCUMENTS FOUND DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY ARCHITECT PRIOR TO ANY ACTION IN RELATION TO NOT SPECIFIED CONDITION.

D. CONTRACTOR SHALL NOT SCALE DRAWINGS, ALL DIMENSIONS TO BE VERIFIED IN FIELD.

E. CONTRACTOR SHALL TAKE ALL APPROPRIATE SAFETY MEASURES DURING WATERPROOFING OF EXISTING ELECTRICAL RM. ARCHITECT ASSUMES NO RESPONSIBILITIES FOR THE CONTRACTORS SAFETY PROCEDURES IN CONNECTION WITH THE WORK.

F. HATCHED AREA NOT IN CONTRACT

<u>DEMO. NOTES:</u>

1. REMOVE AND DISPOSE OF EXISTING CARPET, CLEAN ADHESIVE FROM TILES.

2. REMOVE AND DISPOSE OF EXISTING CONCRETE BLOCK CURB.

3. REMOVE EXISTING RAILING.

4. DISCONNECT AND REMOVE EXISTING FAUCETS AND ASSOCIATED PIPING. CUT AND CAP PIPING BEYOND WALL SURFACE. PATCH WALL W/ MORTAR TO ATTAIN SMOOTH SURFACE FLUSH W/ EXIST. FIN. WALL SURFACE.

5. REMOVE EXISTING SOAKING TUBS & FLOOR DRAINS. CAP DRAIN PIPE MIN. 2" BELOW FLOOR SURFACE, PATCH FLOOR W/ CONCRETE FLUSH W/ FLOOR SURFACE.

6. REMOVE AND DISPOSE OF EXISTING TILE CLAD CMU PEDESTAL.

7. TEMPORARILY REMOVE EXISTING BENCHES.

8. DISCONNECT AND TEMPORARILY REMOVE EXIST. WALL MOUNT SINK AND ALL ASSOCIATED ACCESSORIES: FAUCET, MIRROR, SOAP DISPENSER

9. DISCONNECT AND TEMPORARILY REMOVE EXIST. WALL MOUNT TOILET BOWL AND FLUSH VALVE.

10. TEMPORARILY REMOVE EXIST. GRAB BARS.

11. TEMP. REMOVE EXIST. TOILET PAPER DISPENSER.

12. DISCONNECT AND TEMP. REMOVE EXIST. WALL MOUNT URINAL AND FLUSH VALVE.

13. TEMP. REMOVE EXIST. TOILET/SHOWER PARTITIONS.

14. TEMP. REMOVE SHOWER HEADS, CONTROLS AND WALL MOUNT SOAP DISPENSERS. DISCARD SOAP DISPENSERS.

15. TEMP. REMOVE WALL MOUNT BENCH.

16. TEMP. REMOVE WALL MOUNT DRIER.

17. REMOVE EXISTING REDUCER STRIP.

18. TEMP. REMOVE EXIST. MAT.

19. TEMP. DISASSEMBLE EXISTING EL. PANEL AS NEEDED TO WATERPROOF EXISTING CONDUITS AND CONDUIT PENETRATIONS.

20. REMOVE AND DISPOSE OF EXIST. WALL TILE TO THE EXTENT OF DASHED LINE. REMOVE HARDENED THINSET RESIDUE, CLEAN AND PREPARE WALL TO RECEIVE NEW TILE.

21. SAWCUT AND REMOVE EXIST. TILE AND ELEVATED PORTION OF CONCRETE SLAB, CLEAN & PREPARE SLAB TO RECEIVE LEVELING MORTAR.

22. SAWCUT AND REMOVE EXISTING TILE AND CONCRETE SLAB FOR RAMP INSTALLATION.

23. REMOVE EXIST. CMU LOW WALL.

24. REMOVE EXIST. CONCRETE RAMP.

25. REMOVE AND DISCARD EXISTING RAILING.

26. REMOVE AND DISPOSE OF EXIST. FLOOR TILE, CLEAN AND PREPARE SLAB TO RECEIVE LEVELING CONCRETE MIX.

27. SAWCUT & REMOVE EXIST. CONC. SLAB & TILE TO ENLARGE WIDTH AND ADJUST SLOPE OF EXIST. CONCRETE RAMP.





53 HUDSON AVENUE NYACK, NEW YORK 10960 www.DCAK-MSA.com

Tel 845-353-1300

FULL COPYRIGHT ON INTELLECTUAL PROPERTY CONTAINED HEREIN, WHICH SHALL NOT BE REPRODUCED OR USED FOR FURTHER DEVELOPMENT OF THE PROJECT UNLESS SPECIFICALLY AUTHORIZED IN WRITING BY DCAK-MSA ARCHITECTURE AND ENGINEERING. THIS DRAWING SHALL NOT BE CONSIDERED AN AUTHORIZED COPY ISSUED FROM THE ARCHITECT UNLESS THE

ORIGINAL SEAL AND ORIGINAL SIGNATURE ARE AFFIXED.

Email: info@DCAK-MSA.com

Fax 845-353-1614

Project Name: RENOVATION OF PHYSICAL **EDUCATION BUILDING** INFRASTRUCTURE

Project Address: VALHALLA, NY

Consultants

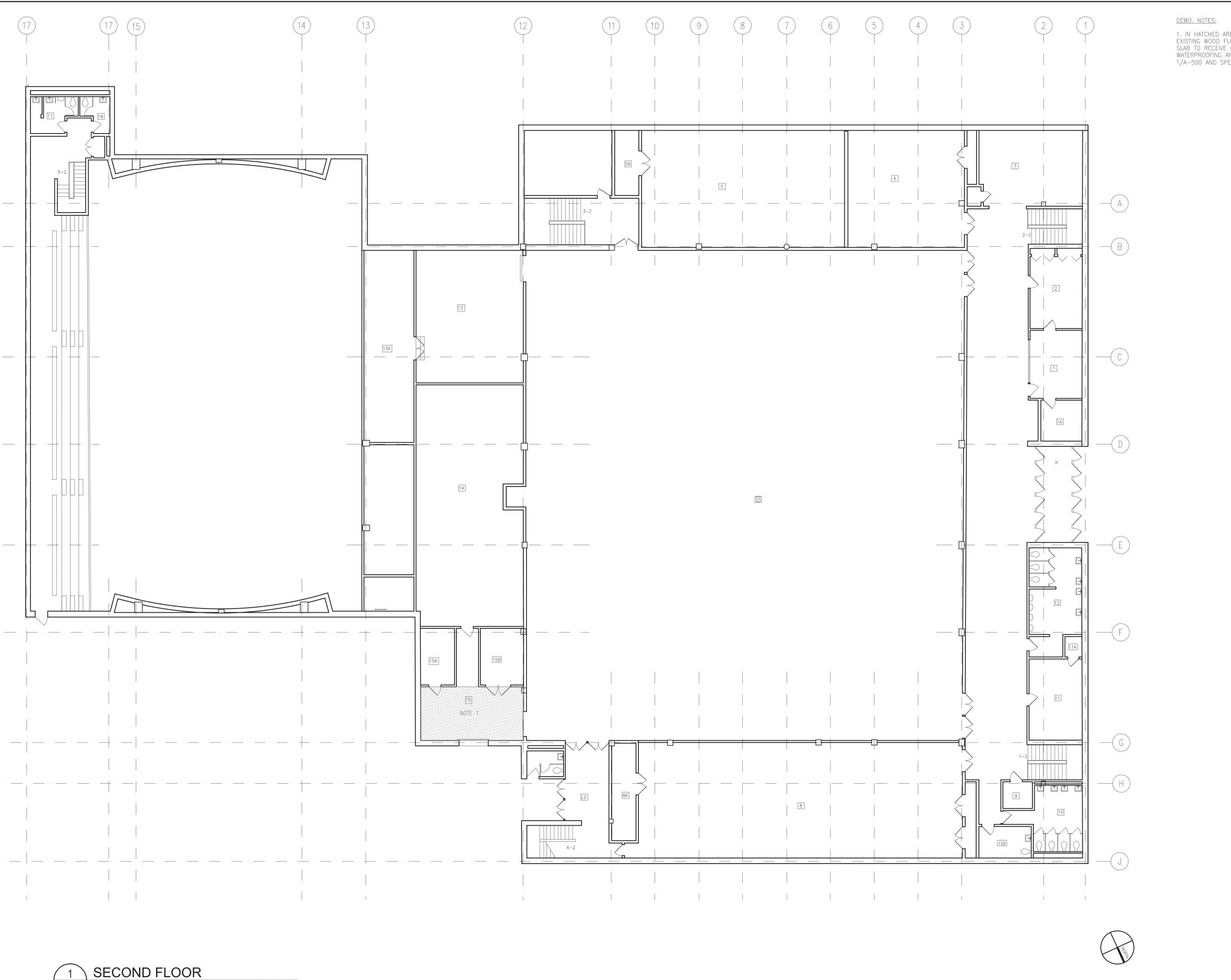


	F	REVISIONS	
No:	Date:	Description:	Responsible Party:
-	3/9/2020	ISSUED	AJ
Ш			
Ш			
Ш			
Ш			
Ш			
Ш			
Ш			
Н			
$\vdash\vdash\vdash$			
<u></u>			
	wing:		
 	RSI	FLOOR	

DEMOLITION PLAN

Responsible Party: Reviewed By 18041

AS NOTED Drawing Number:



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

1. IN HATCHED AREA REMOVE AND DISPOSE OF EXISTING WOOD FLOORING. PREPARE CONCRETE SLAB TO RECEIVE COLD FLUID—APPLIED WATERPROOFING AND CONCRETE FLOORING. SEE 1/A-500 AND SPEC SECTIONS 071416 & 033300.

DCAK · MSA

53 HUDSON AVENUE NYACK, NEW YORK 10960 www.DCAK-MSA.com Email: info@DCAK-MSA.com

Tel 845-353-1300 Fax 845-353-1614

© 2019 DCAK-MSA ARCHITECTURE AND ENGINEERING RETAINS FULL COPYRIGHT ON INTELLECTUAL PROPERTY CONTAINED HEREIN, WHICH SHALL NOT BE REPRODUCED OR USED FOR FURTHER DEVELOPMENT OF THE PROJECT UNLESS SPECIFICALLY AUTHORIZED IN WRITING BY DCAK-MSA ARCHITECTURE AND ENGINEERING. THIS DRAWING SHALL NOT BE CONSIDERED AN AUTHORIZED COPY ISSUED FROM THE ARCHITECT UNLESS THE ORIGINAL SEAL AND ORIGINAL SIGNATURE ARE AFFIXED.

Project Name:

RENOVATION OF PHYSICAL EDUCATION BUILDING INFRASTRUCTURE

Project Address:

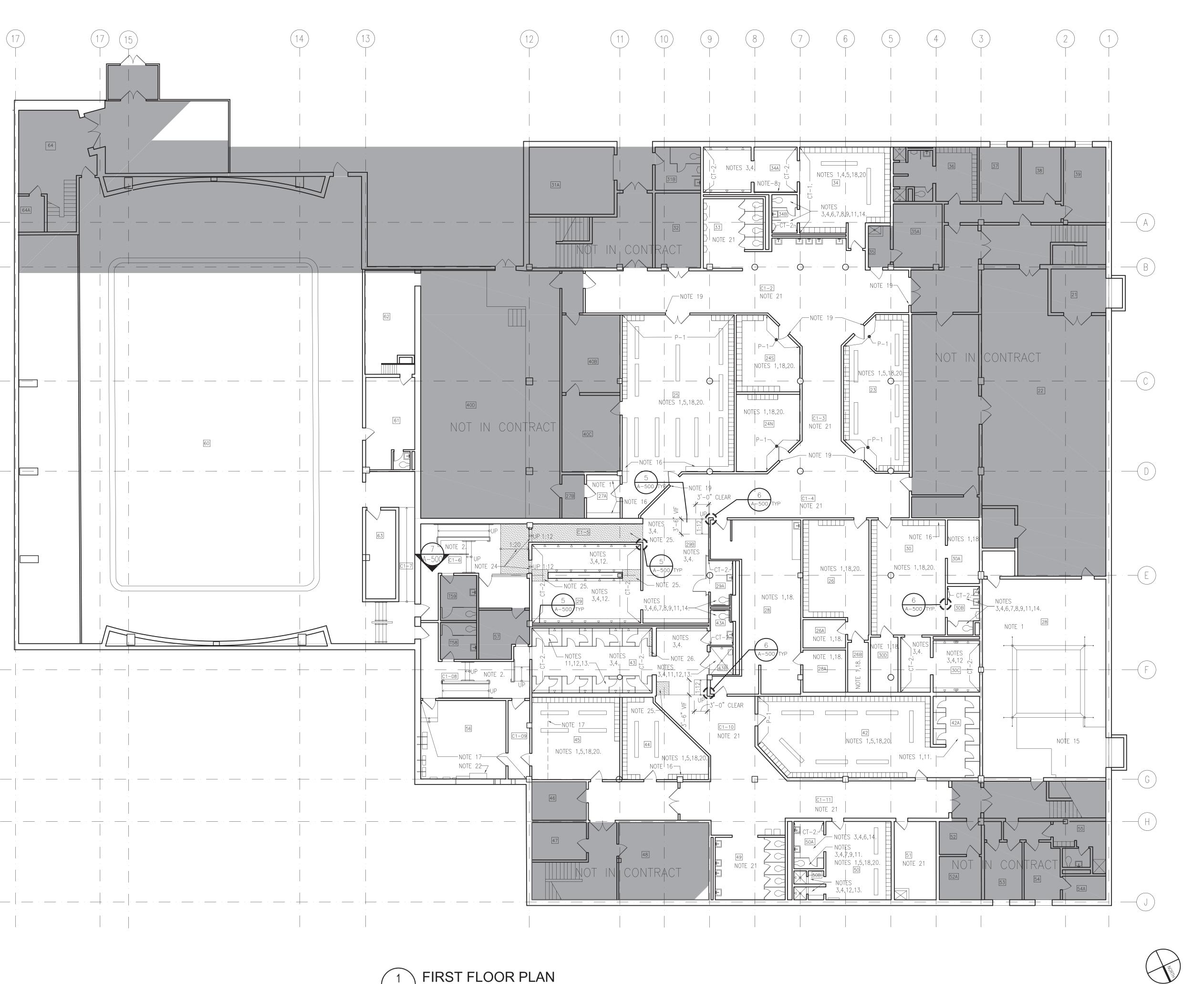
VALHALLA, NY

Consultants



	F	REVISIONS	
No:	Date:	Description:	Responsib Party:
-	3/9/2020	ISSUED	AJ
Dra	wing:		•
SI	ECON	ND FLO	OR
		ITIONI	- 1

DEMOLITION PLAN



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

GENERAL NOTES:

A. ALL WALL MOUNTED FIXTURES (SIGNS, EL. SWITCHES & OUTLETS, FIRE ALARM & SUPPRESSION DEVICES, WALL MOUNTED OR RECESSED PANELS & CABINETS, E.T.C.) ON THE WALLS SCHEDULED TO RECEIVE NEW TILE, TO BE TEMPORARILY REMOVED AND STORED.

B. ALL TEMPORARILY REMOVED ITEMS TO BE REINSTALLED AT THE ORIGINAL LOCATION AFTER INSTALLATION OF NEW WALL OR FLOOR TILES U.N.O.

C. IF CONDITIONS NOT SPECIFIED IN CONTRACT DOCUMENTS FOUND DURING CONSTRUCTION, CONTRACTOR SHALL NOTIFY ARCHITECT PRIOR TO ANY ACTION IN RELATION TO NOT SPECIFIED CONDITION.

D. CONTRACTOR SHALL NOT SCALE DRAWINGS, ALL DIMENSIONS TO BE VERIFIED IN FIELD.

E. CONTRACTOR SHALL TAKE ALL APPROPRIATE SAFETY MEASURES DURING WATERPROOFING OF EXISTING ELECTRICAL RM. ARCHITECT ASSUMES NO RESPONSIBILITIES FOR THE CONTRACTORS SAFETY PROCEDURES IN CONNECTION WITH THE WORK.

F. CONTRACTOR SHALL PROVIDE MIN. 5% OF USED FINISH MATERIALS (FLOOR AND WALL TILES) FOR STACK. G. CONTRACTOR SHALL SLOPE NEW TILE TO FLOOR

DRAIN AND ADJUST FLOOR DRAINS TO NEW TILE HEIGHT.

H. CONTRACTOR TO UNDERCUT DOORS IF/AS REQUIRED AFTER INSTALLATION OF NEW FLOOR TILE.

I. PRIOR TO SANDING, CONTRACTOR SHALL REMOVE AND RESET ANY LOOSE TILE (FLOOR & WALL) WITH LATEX-MODIFIED THIN-SET.

CONSTRUCTION NOTES:

1. FILL EXISTING CERAMIC TILE JOINTS WITH GROUT TO ATTAIN SMOOTH AND LEVEL SURFACE, INSTALL NEW ATTRACTION FLOOR TILE, SEE FLOOR PATTERN DRAWINGS.

2. INSTALL NEW ATTRACTION FLOOR TILE ON EXIST. CONCRETE FLOOR AND RAMPS, SEE FLOOR PATTERN DRAWINGS.

3. SAND EXISTING FLOOR CERAMIC TILE AND INSTALL NEW PORCELAIN TILE PER FLOOR PATTERN DRAWINGS. SEE SPEC. AND INSTALLATION DETAILS.

4. SAND EXISTING WALL TILE AND INSTALL NEW PORCELAIN TILE. SEE SPEC. AND INSTALLATION DETAILS. TILE TO BE CT-1 U.N.O. LAY TILES HORIZONTALLY, ALINE JOINTS W/ FLOOR TILE JOINTS.

5. REINSTALL EXISTING FLOOR MOUNT BENCHES. 6. REINSTALL EXIST. WALL MOUNT SINK AND ALL ASSOCIATED ACCESSORIES: FAUCET, MIRROR, SOAP DISPENSER E.T.C.

7. REINSTALL EXIST. WALL MOUNT TOILET BOWL AND FLUSH VALVE.

8. REINSTALL GRAB BARS.

9. REINSTALL TOILET PAPER DISPENSER.

10. REINSTALL EXIST. WALL MOUNT URINAL AND FLUSH VALVE.

11. REINSTALL EXIST. TOILET/SHOWER PARTITIONS. MAKE NECESSARY ADJUSTMENTS AS REQUIRED FOR REDUCED SPACING BY ± 1 " DUE TO TILE INSTALLATION.

12. REINSTALL SHOWER HEADS AND CONTROLS.

13. REINSTALL WALL MOUNT SEAT.

14. REINSTALL WALL MOUNT DRIER.

FLOOR TILE.

CURB.

15. REINSTALL EXIST. MAT OVER NEW ATTRACTION

16. INSTALL NEW PORCELAIN TILE OVER CONCRETE

17. PROVIDE WATERPROOFING OF CONDUITS WITH POLYWATER FST, CONDUIT PENETRATIONS AND WALL CRACKS WITH POLYURETHANE FOAM GROUT SEE SPEC. SECTION 07920.

18. PAINT EXISTING WALLS W/ P-2 U.N.O. SEE FINISH SCHEDULE.

19. PREP & REPAINT EXISTING DOOR FRAME. SEE A-706.

20. REPAINT EXIST. LOCKERS.

21. ACID WASH EXISTING CERAMIC TILE FLOORS &

22. REASSEMBLE EXIST. EL. PANEL.

23. PATCH AND REPAINT EXIST. GWB SOFFIT. 24. PROVIDE NEW CONCRETE RAMP. SLOPE AS

25. IN HATCHED AREA LEVEL FLOOR W/ CONCRETE. FLUSH W/ EXIST. FLOOR TILE.

26. FILL GUTTER W/ CONCRETE, FLUSH W/ EXIST.

27. FILL RAMP W/ CONCRETE FLUSH W/ EXIST. FLOOR TILE.

<u>LEGEND</u> AREA NOT IN CONTRACT

INDICATED.

DCAK · MSA

53 HUDSON AVENUE NYACK, NEW YORK 10960 www.DCAK-MSA.com Email: info@DCAK-MSA.com

Tel 845-353-1300 Fax 845-353-1614

2019 DCAK-MSA ARCHITECTURE AND ENGINEERING RETAINS FULL COPYRIGHT ON INTELLECTUAL PROPERTY CONTAINED HEREIN, WHICH SHALL NOT BE REPRODUCED OR USED FOR FURTHER DEVELOPMENT OF THE PROJECT UNLESS SPECIFICALLY AUTHORIZED IN WRITING BY DCAK-MSA ARCHITECTURE AND ENGINEERING. THIS DRAWING SHALL NOT BE CONSIDERED AN AUTHORIZED COPY ISSUED FROM THE ARCHITECT UNLESS THE ORIGINAL SEAL AND ORIGINAL SIGNATURE ARE AFFIXED.

Project Name: RENOVATION OF PHYSICAL **EDUCATION BUILDING INFRASTRUCTURE**

Project Address: VALHALLA, NY

Consultants

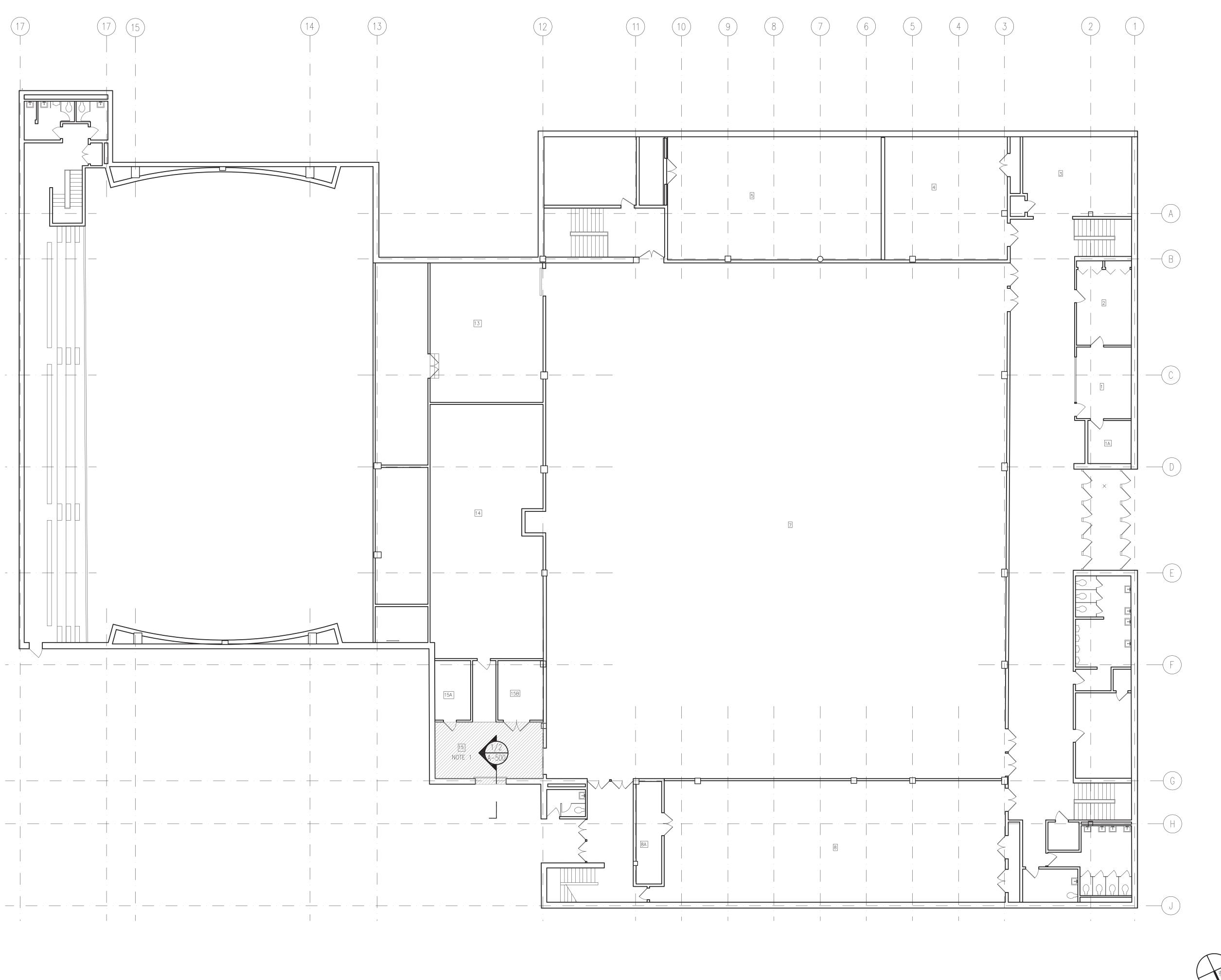
3/9/2020

REVISIONS

FIRST FLOOR PLAN

Project Number: Responsible Party: Reviewed By 18041

AS NOTED Drawing Number:



SECOND FLOOR

A-102 | SCALE: 3/32" = 1'-0"

CONSTRUCTION NOTES:

1. IN HATCHED AREA PROVIDE NEW COLD FLUID-APPLIED WATERPROOFING AND CONCRETE FLOORING. SEE SPEC SECTION 071416 & 033300. DCAK · MSA

53 HUDSON AVENUE NYACK, NEW YORK 10960 www.DCAK-MSA.com Email: info@DCAK-MSA.com

Fax 845-353-1614

Tel 845-353-1300

© 2019 DCAK-MSA ARCHITECTURE AND ENGINEERING RETAINS FULL COPYRIGHT ON INTELLECTUAL PROPERTY CONTAINED HEREIN, WHICH SHALL NOT BE REPRODUCED OR USED FOR FURTHER DEVELOPMENT OF THE PROJECT UNLESS SPECIFICALLY AUTHORIZED IN WRITING BY DCAK-MSA ARCHITECTURE AND ENGINEERING. THIS DRAWING SHALL NOT BE CONSIDERED AN AUTHORIZED COPY ISSUED FROM THE ARCHITECT UNLESS THE ORIGINAL SEAL AND ORIGINAL SIGNATURE ARE AFFIXED.

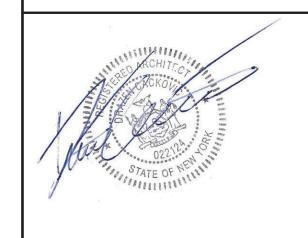
Project Name:

RENOVATION OF PHYSICAL EDUCATION BUILDING INFRASTRUCTURE

Project Address:

VALHALLA, NY

Consultants



	F	REVISIONS	
No:	Date:	Description:	Responsibl Party:
1	3/9/2020	ISSUED	AJ
	wing:		
SI	ECON	ID FLOOF	2
	ΔΝΙ		_

PLAN

AS NOTED
Drawing Number:



DCAK · MSA

53 HUDSON AVENUE NYACK, NEW YORK 10960 www.DCAK-MSA.com

© 2019 DCAK-MSA ARCHITECTURE AND ENGINEERING RETAINS FULL COPYRIGHT ON INTELLECTUAL PROPERTY CONTAINED HEREIN, WHICH SHALL NOT BE REPRODUCED OR USED FOR FURTHER DEVELOPMENT OF THE PROJECT UNLESS SPECIFICALLY AUTHORIZED IN WRITING BY DCAK-MSA ARCHITECTURE AND ENGINEERING. THIS DRAWING SHALL NOT BE CONSIDERED AN AUTHORIZED COPY ISSUED FROM THE ARCHITECT UNLESS THE ORIGINAL SEAL AND ORIGINAL SIGNATURE ARE AFFIXED.

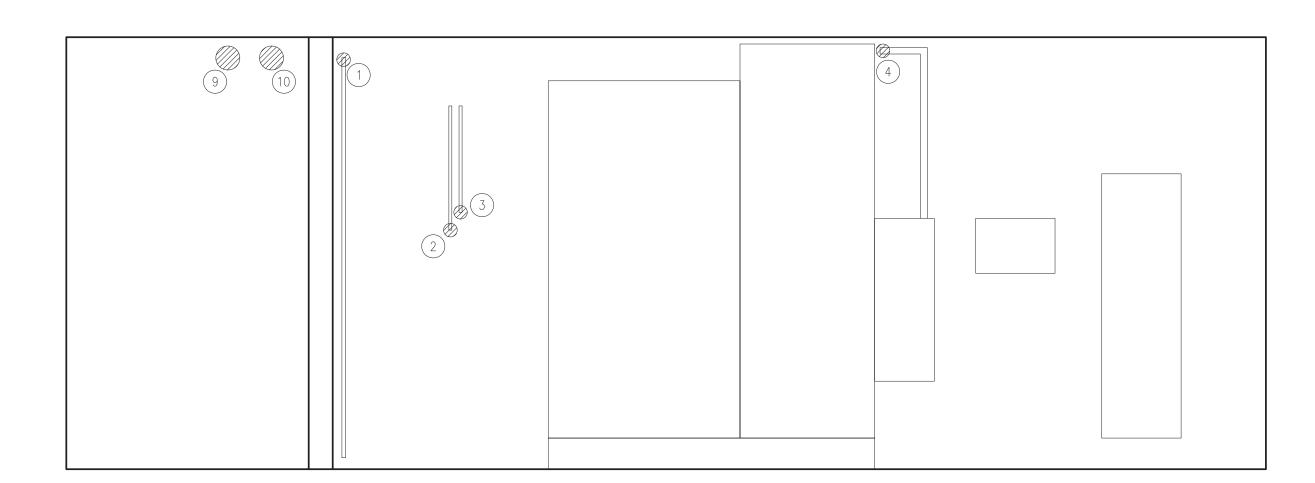
RENOVATION OF PHYSICAL EDUCATION BUILDING



No:	Date:	Description:	Responsib Party:
-	3/9/2020	ISSUED	AJ
Dra	wing:		-
	005		N 1

FLOOR PATTERN

LEGEND: - PENETRATIONS TO BE SEALED



 $\overline{(7)}$

ROOM 56 ELEVATIONS A-310 SCALE: 1/2" = 1'-0"

A-310 SCALE: 1/2" = 1'-0"

2 ROOM 56 ELEVATIONS

3 2 1 10 9

ROOM 56 FLOOR PLAN A-310 | SCALE: 1/4" = 1'-0"

DCAK - MSA

53 HUDSON AVENUE NYACK, NEW YORK 10960 www.DCAK-MSA.com Email: info@DCAK-MSA.com

© 2019 DCAK-MSA ARCHITECTURE AND ENGINEERING RETAINS FULL COPYRIGHT ON INTELLECTUAL PROPERTY CONTAINED HEREIN, WHICH SHALL NOT BE REPRODUCED OR USED FOR FURTHER DEVELOPMENT OF THE PROJECT UNLESS SPECIFICALLY AUTHORIZED IN WRITING BY DCAK-MSA ARCHITECTURE AND ENGINEERING. THIS DRAWING SHALL NOT BE CONSIDERED AN AUTHORIZED COPY ISSUED FROM THE ARCHITECT UNLESS THE ORIGINAL SEAL AND ORIGINAL SIGNATURE ARE AFFIXED.

RENOVATION OF PHYSICAL

EDUCATION BUILDING

INFRASTRUCTURE

VALHALLA, NY

Fax 845-353-1614

Tel 845-353-1300

Project Name:

Project Address:

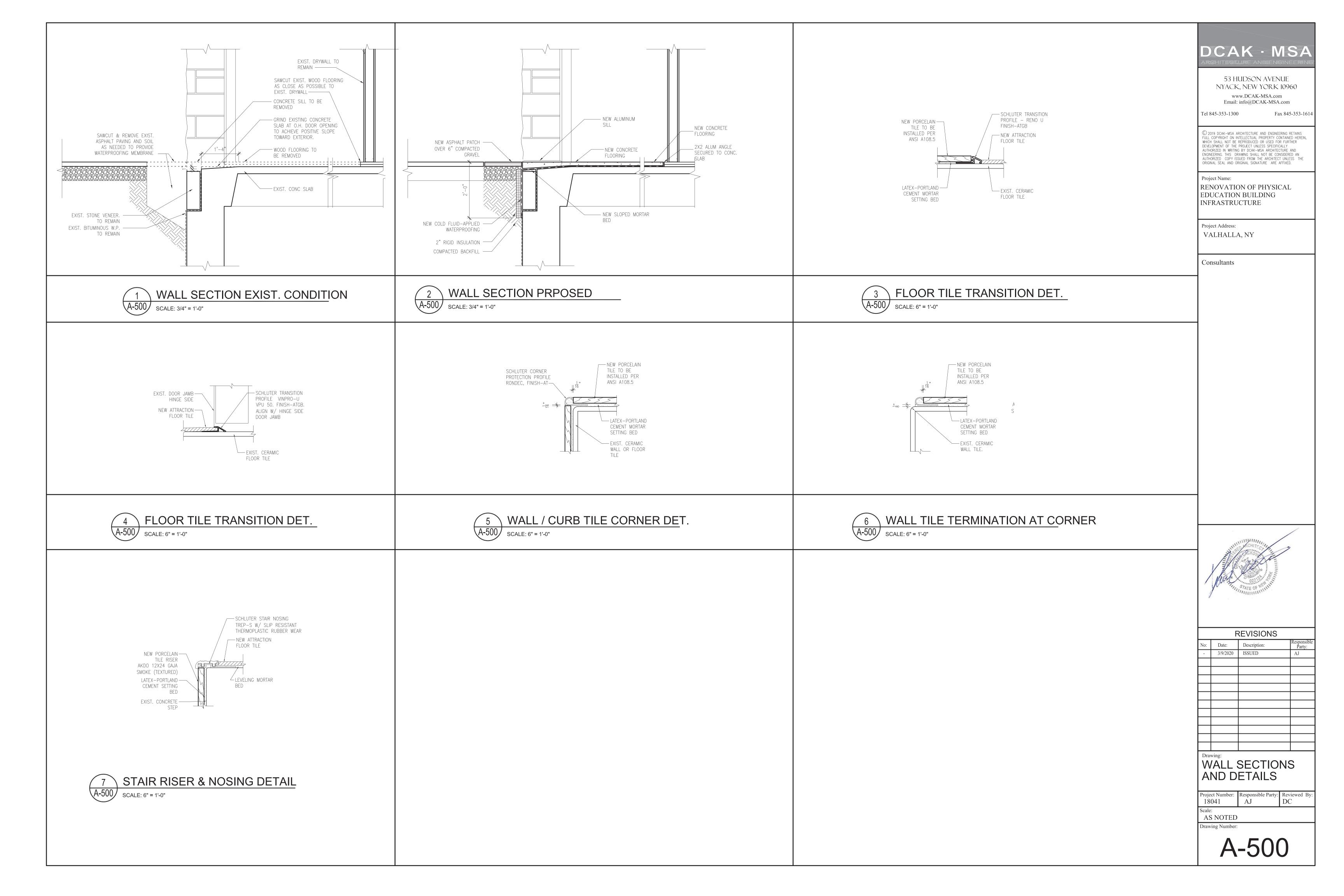
Consultants

REVISIONS Drawing:
ELEVATIONS

AS NOTED
Drawing Number:

A-310

5	8



C1-2				WALL BASE		WALL		CEILING		LOCKERS	DOOR FRAMES	REMARKS
C1-2		EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED			
	CORRIDOR	СТ	AW			CT/CMU	AW/ETR	GWB	ETR		P-3	AW=ACID WASH / ETR=EXIST. TO REMAIN
C1-3	CORRIDOR	СТ	AW			CT/CMU	AW/ETR	GWB	ETR			
C1-4	CORRIDOR	СТ	AW			CT/CMU	AW/ETR	GWB	ETR		P-3	
C1-10	CORRIDOR	СТ	AW			CT/CMU	AW/ETR	GWB	ETR			
C1-11	CORRIDOR	СТ	AW			CT/CMU	AW/ETR	GWB	ETR		P-3	
22	BOXING	PAINTED CONC	FF-1			CMU	P-2	GWB	ETR			
23	LOCKER ROOM	CARPET	FF-1/FF-2	CMU	P1/P2	CMU	P-1/P-2	GWB	ETR	P-3	P-3	
24S	TEAM ROOM	CARPET	FF-1/FF-2	CMU	P2	CMU	P-1/P-2	GWB	ETR	P-3	P-3	
24N	TEAM ROOM	CARPET	FF-1/FF-2	CMU	P2	CMU	P-1/P-2	GWB	ETR	P-3	P-3	
25	SOCCER ROOM	CARPET	FF-1/FF-2	CMU	P2	CMU	P-1/P-2	GWB	ETR	P-3	P-3	
	STORAGE	CARPET	FF-1/FF-2	CMU	P2	CMU	P-2	GWB	ETR	-		
26	VARSITY BASEBALL	CARPET	FF-1/FF-2	CMU	P2	CMU	P-2	GWB	ETR			
	STORAGE	CARPET	FF-1	CMU	P2	CMU	P-2	GWB	ETR			
26B	STORAGE	CARPET	FF-1	CMU	P2	CMU	P-2	GWB	ETR			
28	TRAINING ROOM	CT	FF-1/FF-2	CMU	P2	CT	P-2	GWB	ETR			
	STORAGE	CT	FF-1/FF-2	CT/CMU	AW/P2	СТ	P-2	GWB	ETR			
29	MEN'S SHOWER	CT	CT-1/CT-2	- 1, - 111	1 1111	СТ	CT-1/CT-2	GWB	ETR			
29A	TOILET	СТ	CT-1/CT-2			СТ	CT-1/CT-2	GWB	ETR			
29B	MEN'S SHOWER	СТ	CT-1/CT-2/C T-3			СТ	CT-1	GWB	ETR			
C1-5	CORRIDOR	СТ	CT-1/CT-2			СТ	CT-1	GWB	ETR			
30	VARSITY BASKETBALL LOCKER	CARPET	FF-1/FF-2	CT/CMU	AW/P-2	СТ	P-1	GWB	ETR			
30A	VARSITY BASKETBALL STORAGE	CARPET	FF-1/FF-2	CITCIVIO	7,00/1 2	CMU	P-2	GWB	ETR			
			FF-1/FF-2				CT-1/CT-2					
30B	VARSITY BASKETBALL TOILET	CT	FF-1/FF-2			CT	CT-1/CT-2	GWB	ETR			
30C	VARSITY BASKETBALL SHOWER	CT				СТ		GWB	ETR			
33	MEN'S TOILET	CARRET	AW	CT.	0.04	CT/GWB	AW CT-1/P-2	GWB	ETR			
	STAFF LOCKERS	CARPET	FF-1/FF-2 CT-1/CT-2	СТ	AW	CT/GWB	CT-1/P-2 CT-1/P-2	GWB	ETR			
	STAFF SHOWER	СТ	CT-1/CT-2			CT/GWB	CT-1/P-2 CT-1/P-2	GWB	ETR			
	STAFF TOILET	CARRET	FF-1/FF-2	Chall	D 2			GWB	ETR		D 2	
42	WOMEN'S LOCKER ROOM	CARPET		CMU	P-2	CT/CMU	P-1/P-2	GWB	ETR	P-3	P-3	
42A	WOMEN'S CHANGING ROOM	CARPET	FF-1/FF-2			СТ	P-2	GWB	ETR			
43	WOMEN'S SHOWER	СТ	CT-1/CT-2/C T-3			СТ	CT-1/CT-2	GWB	ETR			
43A	WOMEN'S TOILET	СТ	CT-1/CT-2			CT	CT-1	GWB	ETR			
43B	WOMEN'S HC SHOWER	СТ	CT-3			СТ	CT-1	GWB	ETR			
44	WOMEN'S VARSITY BASKETBALL	CARPET	FF-1/FF-2	CMU	P-2	CT/CMU	P-2	GWB	ETR	P-3		
45	SOFTBALL	CARPET	FF-1/FF-2	CMU	P-2	CT/CMU	P-2	GWB	ETR	P-3		
49	WOMEN'S TOILET	CT	AW	CT	AW	CT	AW	GWB	ETR			
	FACULTY LOCKER	СТ	FF-1/FF-2	СТ	AW	CT/GWB	P-2	GWB	ETR			
	FACULTY LOCKER TOILET	СТ	CT-1/CT-2		7.00	CT	CT-1/CT-2	GWB	ETR			
50B	FACULTY LOCKER SHOWER	СТ	CT-1/CT-2			СТ	CT-1	GWB	ETR			
51	CUSTODIAN	СТ	AW	CMU		CMU	ETR	GWB	ETR			
	ELECTRICAL	CONC	ETR	CIVIO		CONC	ETR	PAINTED CONC	ETR			
C1-06	CORRIDOR	PAINTED CONC	FF-1	СТ	ETR	CMU	ETR	GWB	ETR			REPLACE MISSING WALL BASE W/ TILE TO MATCH EXISTING
C1-08	CORRIDOR	PAINTED CONC	FF-1	CT	ETR	CMU	ETR	GWB	ETR			REPLACE MISSING WALL BASE W/ TILE TO MATCH EXISTING
C1-08 C1-09	CORRIDOR	PAINTED CONC	ETR	CI	LIN	CMU	ETR	PAINTED CONC	ETR			THE TO WATCH EXISTING
	LOADING DOCK		PC-1			CMU	ETR	FAINTED CONC	EIK			
15	LOADING DOCK	WD	PC-1			CIVIU	EIR					

		FLOOR FINISHE	S	
TAG	PRODUCT		DESCRIPTION	
ETR	EXISTING TO REMAIN			
CT-1	CERAMIC TILE	MFR:	AKDO	
	FIELD	SIZE:	12"X24"	
		MODEL:	GAJA	
		COLOR:	SAND (TEXTURED)	
		INSTALLATION:	LATEX-PORTLAD CEMENT MORTAR	
		GAUGE:	-	
CT-2	CERAMIC TILE	MFR:	AKDO	
	ACCENT	SIZE:	12"X24"	
		MODEL:	GAJA	
		COLOR:	SMOKE (TEXTURED)	
		INSTALLATION:	LATEX-PORTLAD CEMENT MORTAR	
		GAUGE:		
CT-3	CERAMIC TILE	MFR:	AKDO	
	ACCENT	SIZE:	2"X2" MOSAIC	
		MODEL:	GAJA	
		COLOR:	SMOLE (TRXTURED)	
		INSTALLATION:	LATEX-PORTLAD CEMENT MORTAR	
		GAUGE:		
FF-1	FITNESS	MFR:	GERFLOR	
	FLOORING FIELD	SIZE:	25"X25"	
		MODEL:	ATTRACTION	
		COLOR:	3707 PARAIBA	
		INSTALLATION:	MFR. PROVIDED ADHESIVE / DRY	
		GAUGE:		
FF-2	FITNESS	MFR:	GERFLOR	
	FLOORING ACCENT	SIZE:	25"X25"	
		MODEL:	ATTRACTION	
		COLOR:	8736 RECIFE	
		INSTALLATION:	MFR. PROVIDED ADHESIVE / DRY	
		GAUGE:		
PC-1	PAINTED CONCRETE	MFR:	BENJAMIN MOORE	
	CONTINE	PREP:	MANUFACTURE'S RECOMMENDATION	
		1ST FINISH COAT:	BM-INSL-X-GARAGE GUARD EGG-X	
		2nd FINISH COAT:	BM-INSL-X-GARAGE GUARD EGG-X	
		ADDITIVE:	ANTI-SLIP AGGREGATE	
		COLOR:	SHOWROOM GRAY	

	TAG	PRODUCT		DESCRIPTION
СМО	P-1	PAINT	MFR:	BENJAMIN MOORE
ົວ			FILLER:	NONE
			PRIMER:	1 COAT COROTECH WATERBORN BONDING PRIMER (V175)
			1st COAT:	COROTECH PRE CATALIZED EPOXY (V341)
			2nd COAT:	SAME AS 1ST COAT
			SHEEN:	SEMI-GLOSS
			COLOR:	YELOW - SPEC BY OWNER
M	P-2	PAINT	MFR:	BENJAMIN MOORE
CT/ CMU			FILLER:	NONE
Ե			PRIMER:	1 COAT COROTECH WATERBORN BONDING PRIMER (V175)
			1st COAT:	COROTECH PRE CATALIZED EPOXY (V341)
			2nd COAT:	SAME AS 1ST COAT
			SHEEN:	SEMI-GLOSS
			COLOR:	WHITE
STEEL	P-3	PAINT	MFR:	BENJAMIN MOORE
STI			FILLER:	NONE
			PRIMER:	1 COAT COROTECH WATERBORN BONDING PRIMER (V175)
			1st COAT:	COROTECH ACRYLIC EPOXY (V450)
			2nd COAT:	SAME AS 1ST COAT
			SHEEN:	SEMI-GLOSS
			COLOR:	BLUE - SPEC BY OWNER
	ETR	EXISTING TO REMAIN		
	AW			ACID WASH

	FLOORING NOTES:
A.	PROVIDE SMOOTH AND LEVEL TRANSITION BETWEEN DIFFERENT FLOORS.
B.	EXTEND ROOM FINISHES INTO ADJACENT CLOSETS AND SIMILAR SPACES, U.O.N.
C.	INSTALL FLOORING PRIOR TO INSTALLATION OF CASEWORK & EQUIPMENT.
D.	FLOOR TILE INSTALLATION OVER TILE SHALL BE ACCORDING TO TCNA METHOD TR712-18
E.	FLOOR TILE INSTALLATION OVER TILE SHALL BE ACCORDING TO TCNA METHOD TR713-18
F.	CONTRACTOR SHALL PROVIDE TILE SAMPLES FOR ARCHITECT'S APPROVAL FOR EACH TYPE OF CERAMIC TILES.
G.	AT PREVIOUSLY PAINTED SURFACES, CONTRACTOR SHALL OMIT BLOCK FILLER.
H.	AT PREVIOUSLY PAINTED SURFACES, CONTRACTOR MAY OMIT PRIMER. FIRST COAT MAY BE OMITTED WHEN EXIST. COLOR IS A SIMILAR TONE & ONE COAT IS SUFFICIENT TO COMPLETELY CONCEAL EXIST. PAINT.
A.	REFER TO FLOOR PATTERN LAYOUT SHEET FOR TILE INSTALATION PATTERNS
C.	PATCH AND LEVEL EXISITING SUBFLOOR IN PREP FOR NEW CERAMIC OR ATTRACTIONTILE INSTALLATION.
	HM DOOR FRAME NOTES:
Α.	ALL EXISTING HM DOOR FRAMES NEED TO BE SANDED TO REMOVE ALL EXISTIN PAINT AND CORROSIONS FROM THE SURFACE. USE 120-150 GRIT SANDPAPER C

MEDIUM-FINE SANDING SPONGE. APPLY PRIMER AND 2 COATS OF PAINT FOR FINISH.

DCAK · MSA

Fax 845-353-1614

53 HUDSON AVENUE NYACK, NEW YORK 10960 www.DCAK-MSA.com Email: info@DCAK-MSA.com

Tel 845-353-1300

© 2019 DCAK-MSA ARCHITECTURE AND ENGINEERING RETAINS FULL COPYRIGHT ON INTELLECTUAL PROPERTY CONTAINED HEREIN, WHICH SHALL NOT BE REPRODUCED OR USED FOR FURTHER DEVELOPMENT OF THE PROJECT UNLESS SPECIFICALLY AUTHORIZED IN WRITING BY DCAK-MSA ARCHITECTURE AND ENGINEERING. THIS DRAWING SHALL NOT BE CONSIDERED AN AUTHORIZED COPY ISSUED FROM THE ARCHITECT UNLESS THE ORIGINAL SEAL AND ORIGINAL SIGNATURE ARE AFFIXED.

Project Name: RENOVATION OF PHYSICAL EDUCATION BUILDING INFRASTRUCTURE

Project Address:

VALHALLA, NY

Consultants



REVISIONS

Drawing:
FINISH SCHEDULE

Scale:
N.T.S
Drawing Number:

SYMBOL	ABBREVIATION	DESCRIPTION	
	EX.	EXISTING TO REMAIN	
	REL.	REMOVE AND RELOCATE	
	NEW	NEW WORK	
	DEM.	EXISTING TO BE REMOVED	
	CW	COLD WATER	
	HW	HOT WATER	
	HWC	HOT WATER RECIRCULATION	
W	W	WASTE LINE	
	G	GAS LINES	
 CD	CD	CONDENSATE DRAIN	
	CD		
<u> </u>	_	3-WAY VALVE	
<u> </u>	_	BUTTERFLY VALVE	
<u> </u>	_	2-WAY VALVE	
	_	PLUG VALVE	
S -	_	SOLENOID VALVE	
$\overline{\Box}$	_	GATE VALVE	
	_	GLOBE VALVE	
<u> </u>	_	CHECK VALVE	
\triangle	_	OS&Y GATE VALVE	
<u></u>	_	BALL VALVE	
0	_	CIRCUIT SETTER	
Ĥ	_	MANUAL AIR VENT	
X	_	T&P RELIEF VALVE	
	_	PRESSURE REDUCING VALVE	
	_	TEE DOWN	
C	_	ELBOW DOWN	
	_	TEE UP	
O	_	ELBOW UP	
[—	_	PIPE CAP	
\triangleright	_	CONCENTRIC REDUCER	
	_	ECCENTRIC REDUCER	
- 	_	STRAINER	
	_	FLEXIBLE CONNECTION	
—	_	FLOW ARROW	
Ø	_	PRESSURE GAGE	
	_	PUMP	
	_	THERMOMETER	
	_	BASKET STRAINER	
	FD	FLOOR DRAIN	
 	_	UNION	
<u> </u>	AFF	ABOVE FINISHED FLOOR	
_	AHC	ABOVE HUNG CEILING	
_	FAI	FRESH AIR INTAKE	
	RP	RECIRCULATION PUMP	
_			
	TYP	TYPICAL	
_	H.W. HTR	HOT WATER HEATER	
_			

FILE PATH: I:\Projects\WCC\NWCC0008.00\Physical Education\P-001 SAVE DATE:6/16/2020 8:35 AM SAVED BY: nwallingford

NERAL NOTES

- CONTRACT DRAWINGS INDICATE THE EXTENT AND GENERAL ARRANGEMENTS THE PLUMBING SYSTEMS. IF ANY DEPARTURES FROM THE DRAWINGS ARE EMED NECESSARY BY THE PLUMBING CONTRACTOR, DETAILS OF SUCH PARTURES AND THE REASONS THEREFORE SHALL BE SUBMITTED TO THE INER AND ENGINEER FOR APPROVAL. NO SUCH DEPARTURES SHALL BE MADE THOUT PRIOR WRITTEN APPROVAL OF THE OWNER AND ENGINEER. EQUIPMENT D PIPING ARRANGEMENTS SHALL PROVIDE ADEQUATE AND ACCEPTABLE EARANCES FOR ENTRY, SERVICING, AND MAINTENANCE. ANY CHANGES TO PING AND EQUIPMENT LOCATIONS NECESSARY TO AVOID INTERFERENCE WITH HER TRADES SHALL BE MADE AT NO EXTRA COST.
- PLUMBING WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE TEST EDITION OF THE PREVAILING NEW YORK STATE PLUMBING AND BUILDING DES. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A VERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL
- PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL CESSARY PERMITS AND FOR PAYING RELATED FEES.
- IOR TO FABRICATION, THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS D CONDITIONS ON JOB SITE, AND COORDINATE THIS WORK WITH THE WORK OF OTHER TRADES.
- TCH ALL SANITARY DRAIN PIPING AT MAXIMUM SLOPE POSSIBLE, BUT NOT SS THAN 1/8" PER FOOT FOR PIPING ≥3" AND 1/4" PER FOOT FOR PIPING ≤
- OVIDE DIELECTRIC FITTINGS OR COUPLINGS WHEREVER DISSIMILAR METALS ARE
- WORK SHALL BE PROPERLY TESTED, BALANCED, AND CLEANED AND INFECTED. PROVIDE A ONE YEAR WARRANTY FROM DATE OF FINAL SPECTION ON ALL PARTS AND LABOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY NTILATION AND EXHAUST AIR WHEN WELDING OR SOLDERING OPERATIONS ARE RFORMED, AS REQUIRED BY OSHA.

EQUIPMENT NOTES

- STORAGE TANK (ST-1): SHALL BE AO SMITH MODEL# TJV-120A WITH 119 GAL STORAGE CAPACITY, HIGH DENSITY FOAM INSULATION SAVES ENERGY, HELPS REDUCE STANDBY HEAT LOSS, 160 PSI ASME STANDARD WORKING PRESSURE.
- 2. BOILER PUMP (BP-1,2,3): SHALL BE ARMSTRONG MODEL# 4360-125B INLINE PUMP WITH 0.33 HP CONSTANT SPEED MOTOR CAPABLE OF 45GPM AT 10FT OF HEAD WITH 4.6" IMPELLER. PROVIDE 120V, 20A, 1-POLE CIRCUIT TO PUMP FROM EACH BOILER. PUMPS SHALL BE POWERED AND CONTROLLED FROM EACH BOILER. PROVIDE DISCONNECT SWITCH ON WALL FOR EACH PUMP. INTERLOCK WITH BOILER OPERATION.
- 3. HOT WATER RECIRCULATION PUMP (HWRP-1): SHALL BE ARMSTRONG MODEL# 4380 INLINE PUMP SIZE 1.5X1.5X6 WITH 0.33 HP VARIABLE SPEED MOTOR CAPABLE OF 15GPM AT 20FT OF HEAD WITH 4.7" IMPELLER. THE SCOPE OF WORK IS A PUMP REPLACEMENT IN-KIND. THE EXISTING PUMP CIRCUIT AND ASSOCIATED OVERCURRENT PROTECTION SHALL BE REUSED. SELECT THE NEW PUMP VOLTAGE ACCORDINGLY. IF IT IS FOUND THAT THE NEW PUMP IS NOT COMPATIBLE WITH THE EXISTING CIRCUIT, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF THE ISSUE AND THE CONTRACTOR SHALL PROVIDE A SOLUTION TO CIRCUIT THE NEW PUMP ACCORDING TO MANUFACTURER'S REQUIREMENTS.
- 4. PROTONODE RER (CONNECTION TO EXISTING ANDOVER BMS): PROVIDE CAMUS MODEL #FPC-N34 WITH BACNET. INSTALL IN LEAD BOILER AS PER MANUFACTURERS GUIDELINES. THE CONTROLLER SHALL BE INSTALLED FOR FUTURE CONNECTION TO BUILDING ANDOVER BMS.
- 5. <u>ELECTRONIC TEMPERING VALVE (ETV):</u> PROVIDE HEAT—TIMER 3—WAY VALVE AND ETV PLATINUM PLUS CONTROL PANEL WITH BACNET. PROVIDE 120V, 20A, 1-POLE CIRCUIT FROM A NEARBY SOURCE TO BE IDENTIFIED IN THE FIELD. PROVIDE 24VAC POWER FROM THE CONTROL PANEL TO THE 3-WAY VALVE.

MANUFACTURERS STARTUP / INSPECTION

- 1. THE CONTRACTOR SHALL HIRE THE MANUFACTURES CERTIFIED DISTRIBUTOR MJD COMBUSTION SALES (516-327-4870) TO PERFORM STARTUP AND REMEDIATION WORK ON THE (3) EXISTING DOMESTIC HOT WATER HEATERS. THIS SHALL INCLUDE THE FOLLOWING.
- INSPECTION OF ALL COMPONENTS AND CONTROLS. REWIRING AND INSTALLATION OF HOT WATER CIRCULATORS THROUGH THE
- BOILERS. INSPECTION OF VERIFICATION OF ALL BOILER SAFETIES.
- RE—PIPING OF CONDENSATE DRAINS AND NEUTRALIZATION PIPING AND
- PROGRAMMING OF EACH BOILER FOR LEAD / LAG
- PROGRAMMING TO ACHIEVE THE TEMPERATURE CONTROLS SEQUENCE WITH NEW DOMESTIC HOT WATER BUFFER TANK.
- INTERLOCKS WITH FLUE DRAFT CONTROLS.
- PROGRAMMING TO "CASCADE" THE BOILERS IN SEQUENCE.
- PROVIDE A START UP COMMISSIONING REPORT. INSTALLATION OF NEW PROTO NODE CONTROLS CARD FOR INTEGRATION WITH BACNET SYSTEM.
- 2. CHIMNEY DESIGN SOLUTIONS (800-685-7077) SHALL BE CONTRACTED TO PERFORM A FULL STARTUP / INSPECTION OF THE EXISTING INDUCED DRAFT FAN AND EXISTING DRAFT CONTROLLER AND PROVIDE AN ASSOCIATED STARTUP REPORT FOR THE ENGINEER / OWNER. PROVIDE DRAFT CONTROL COMPONENTS INCLUDING ROOM PRESSURE SENSORS AND ALL RELATED CONTROLS. THE DRAFT FAN SHALL BE ARRANGED TO MAINTAIN ADEQUATE DRAFT. MAINTAIN DRAFT SET POINT AS PER BOILER MANUFACTURER RECOMMENDATION.



ENGINEERS

OLA Consulting Engineers

50 Broadway, Hawthorne, NY 10532

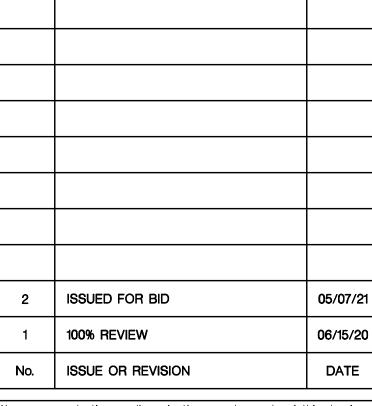
914.747.2800 8 West 38th Street, Suite 501 New York, NY 10018

olace.com

646.849.4110



75 Grasslands Rd, Valhalla, NY 10595 914.606-6600



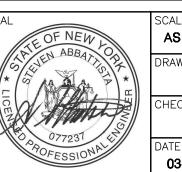
No use, reproduction or dissemination may be made of this drawing and the concepts set forth without the prior written consent of O'Dea, Lynch, Abbattista Consulting Engineers, PC. Copyright © 2021

WCC PHYSICAL EDUCATION BUILDING DOMESTIC HOT WATER UPGRADE 75 Grasslands Rd, Valhalla, NY 10595

PLUMBING SYMBOLS, **ABBREVIATIONS & GENERAL** NOTES

NWCC0008.00

DRAWING NO.



AS SHOWN

P-1 SCOPE OF WORK

A.) EQUIPMENT NOTES AND SCHEDULES INCLUDED ON THESE PLANS NAME SPECIFIC PIECES OF EQUIPMENT, MANUFACTURERS AND MODEL NUMBERS, AND ESTABLISH THE MINIMUM PERFORMANCE AND QUALITY REQUIREMENTS. ALL MANUFACTURERS SPECIFICATIONS ASSOCIATED WITH NAMED EQUIPMENT SHALL BE INCORPORATED HERE IN AS PART OF THESE SPECIFICATIONS. ALL EQUIPMENT SUBMITTED BY THE CONTRACTOR FOR APPROVAL SHALL MEET THE SPECIFICATIONS OF NAMED EQUIPMENT.

B.) THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, APPLIANCES, SERVICES, HOISTING, SCAFFOLDING, SUPERVISION AND OVERHEAD FOR THE FURNISHING AND INSTALLING OF ALL THE PLUMBING AND RELATED WORK, IN ACCORDANCE WITH THE DRAWINGS, SCHEDULES AND SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- 1.) NEW HOT WATER BOILER PUMPS.
- 2.) BOILER REMEDIATION.
- 3.) PROGRAMING AND CX.
- 4.) NEW HOT WATER RE-CIRCULATION PUMP.
- 5.) NEW HOT WATER PIPING, VALVES & ACCESSORIES.
- 6.) NEW HOT WATER STORAGE TANK.

P-2 GENERAL REQUIREMENTS

7.) PIPE INSULATION.

A.) CONSTRUCT ALL APPARATUS OF MATERIALS AND PRESSURE RATINGS SUITABLE FOR THE CONDITIONS ENCOUNTERED DURING CONTINUOUS OPERATION.

B.) WHERE CORROSION CAN OCCUR, APPROPRIATE CORROSION—RESISTANT MATERIALS AND ASSEMBLY METHODS MUST BE USED, INCLUDING ISOLATION OF DISSIMILAR METALS AGAINST GALVANIC INTERACTION. RESISTANCE TO CORROSION MUST BE ACHIEVED BY THE USE OF THE APPROPRIATE BASE MATERIALS COATINGS SHALL BE RESORTED TO ONLY WHEN SPECIFICALLY PERMITTED BY THE SPECIFICATIONS.

C.) CONSTRUCT ALL EQUIPMENT IN ACCORDANCE WITH REQUIREMENTS OF ALL APPLICABLE STATE AND LOCAL CODES. ALL FUEL BURNING EQUIPMENT SHALL MEET OR EXCEED THE ENERGY EFFICIENCY RATING OF ALL APPLICABLE INTERNATIONAL, STATE AND LOCAL ENERGY CONSERVATION CODES. ALL PRESSURE VESSELS AND SAFETY DEVICES THAT FALL WITHIN THE SCOPE OF THE ASME CODE SHALL CONFORM TO THE CODE AND BEAR THE ASME LABEL OR STAMP.

D.) MATCH AND BALANCE ALL SYSTEM COMPONENTS TO ACHIEVE COMPATIBILITY OF EQUIPMENT FOR SATISFACTORY OPERATION AND PERFORMANCE THROUGHOUT THE ENTIRE OPERATING TEMPERATURE AND CONTROL RANGES. ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

E.) UPON COMPLETION OF WORK THE ENTIRE PLUMBING SYSTEM SHALL BE OPERATED IN THE PRESENCE OF THE OWNER TO DEMONSTRATE THAT ALL COMPONENTS ARE INSTALLED AND OPERATING PROPERLY.

F.) PROVIDE ALL CONTROLS, WIRING (EXCEPT POWER WIRING FOR MOTORS), PIPING, VALVES, TUBING ACCESSORIES AND OTHER COMPONENTS NECESSARY TO MAKE ALL SYSTEMS COMPLETE AND OPERABLE.

P-3 DEMOLITION & RUBBISH REMOVAL

A.) REMOVE PIPING, WIRING, AND EQUIPMENT AS INDICATED ON THE DRAWINGS OR AS REQUIRED IN THE FIELD. ALL REMOVALS CAN NOT BE COMPLETELY DETAILED ON THE DRAWINGS. SURVEY THE SITE AND INCLUDE ALL CHANGES IN FORMULATING THE BID. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXISTING WORK AFFECTED BY HIS ALTERATIONS INCLUDING ITEMS NORMALLY COVERED BY ANOTHER TRADE.

B.) THIS WORK SHALL BE EXECUTED IN AN ORDERLY AND CAREFUL MANNER, WITH DUE CONSIDERATION FOR THE PROTECTION OF ADJACENT ACTIVITIES. DUST PRODUCING DEMOLITION SHALL BE ISOLATED WITH PROPER PRECAUTIONS.

C.) THE CONTRACTOR SHALL ASK THE OWNER FOR INSTRUCTIONS IF HE/SHE ENCOUNTERS ANY WORK, THE DEMOLITION OF WHICH MIGHT RESULT IN A HAZARDOUS CONDITION.

D.) EQUIPMENT, PIPING, ETC., SPECIFIED TO BE REMOVED AND RUBBISH CAUSED BY CONSTRUCTION SHALL BE REMOVED FROM THE CONSTRUCTION SITE, IN A CODE COMPLIANT MANNER.

P-4 DUST PROTECTION

A.) IT IS IMPERATIVE THAT DURING DEMOLITION AND ALSO DURING NORMAL CONSTRUCTION WHERE THERE IS ANY POSSIBILITY OF DUST DUE TO CONSTRUCTION WORK CONTAMINATING THE OWNER'S EQUIPMENT OR CAUSING A NUISANCE TO PERSONNEL, THIS CONTRACTOR SHALL FURNISH AND INSTALL SUITABLE PROTECTION AS REQUIRED.

P-5 TIME & MANNER

A.) ALL WORK SHALL BE PERFORMED DURING NORMAL WORKING HOURS UNLESS OTHERWISE DIRECTED BY THE OWNERS REPRESENTATIVE.

B.) PRIOR TO THE BEGINNING OF WORK THE CONTRACTOR SHALL SUBMIT A SCHEDULE OF WORK TO THE OWNER. ANY SHUTDOWNS OF EXISTING SYSTEMS MUST BE VERIFIED IN WRITING WITH THE OWNER'S REPRESENTATIVE.

C.) ANY SHUTDOWN OF EXISTING SYSTEMS WHERE SUCH SHUTDOWN IS REQUIRED FOR THE PERFORMANCE OF THE WORK UNDER THE CONTRACT SHALL BE AT SUCH TIMES AS DESIGNATED BY OWNER'S REPRESENTATIVE. RESTORE SYSTEMS TO ORIGINAL CONDITION AFTER PERFORMANCE OF WORK. THE INTENT IS TO INSURE MINIMUM INTERFERENCE WITH OPERATION OF EXISTING FACILITIES.

P-6 PAINTING

A.) ALL PUMPS, HOT WATER HEATERS AND ALL OTHER FACTORY MANUFACTURED AND ASSEMBLED APPARATUS SHALL BE FACTORY COATED WITH ONE COAT OF PRIMER AND ONE COAT OF MACHINERY ENAMEL STANDARD COLOR AT THE ACTUARY, AND AFTER INSTALLATION, SHALL BE CLEANED AND TOUCHED UP TO REPAIR ANY DAMAGE INCURRED DURING CONSTRUCTION.

B.) ALL EXPOSED IRON AND SUPPLEMENTARY DUNNAGE STEEL SHALL BE PAINTED WITH TWO (2) COATS OF RUST PREVENTIVE PAINT.

P-7 CUTTING & PATCHING

A.) PENETRATIONS FOR PIPING SHALL BE MADE BY CORE DRILLING WHENEVER POSSIBLE.

B.) PATCHING SHALL BE PROVIDED BY THE GENERAL CONTRACTOR EXCEPT WHERE DAMAGE AND/OR REPAIRS ARE NECESSITATED DUE TO ERROR OR NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS SUB—CONTRACTORS.

P-8 SITE INSPECTION

A.) VISIT SITE BEFORE SUBMITTING BID. INSPECT AND VERIFY ALL CONDITIONS WHICH MAY AFFECT COST OF INSTALLATION. VERIFY EXACT LOCATION OF ALL EXISTING PIPES, DUCTS, BEAMS, ETC., WHETHER SHOWN ON THE DRAWINGS OR NOT, SO FAR AS THESE LOCATIONS RELATE TO THE NEW WORK. PROVIDE ANY OFFSETS IN NEW PIPING OR DUCTS AS MAY BE REQUIRED FOR PROPER CLEARANCES TO AVOID EXISTING DUCTS, CABLES OR OTHER OBSTRUCTION.

B.) THE PLUMBING CONTRACTOR SHALL KEEP HIMSELF FULLY INFORMED AS TO THE SHAPE, SIZE, AND POSITION OF ALL OPENINGS AND FOUNDATIONS REQUIRED FOR HIS APPARATUS AND SHALL GIVE FULL INFORMATION TO THE GENERAL CONTRACTOR SUFFICIENTLY IN ADVANCE OF THE WORK, SO THAT ALL SUCH OPENINGS AND FOUNDATION MAY BE BUILT IN ADVANCE. HE SHALL ALSO FURNISH ALL SLEEVES AND SUPPORTS HEREIN SPECIFIED OR REQUIRED, SO THE GENERAL CONTRACTOR MAY BUILD SAME IN PLACE.

P-9 SHOP DRAWINGS & SUBMITTALS REQUIRED

A.) MANUFACTURER'S DATA OR SHOP DRAWINGS OF THE FOLLOWING APPARATUS GIVING FULL INFORMATION AS TO CATALOG NUMBERS, DIMENSIONS, MATERIALS AND ALL INFORMATION PERTINENT TO THE ADEQUACY OF THE SUBMITTED EQUIPMENT SHALL BE SUBMITTED FOR REVIEW:

- 1.) PIPING LAYOUTS (3/8" SCALE).
- 2.) EQUIPMENT INCLUDING PUMPS AND STORAGE TANKS.
- 3.) PIPING MATERIALS, FITTINGS, AND VALVES.
- 4.) INSULATION.
- 5.) ALL OTHER SPECIALTIES.
- 6.) STARTERS.
- 7.) DISCONNECTS.
- 8.) CONTROLS.

P-10 IDENTIFICATION

A.) IDENTIFY ALL EQUIPMENT; IDENTIFY ALL NEW AND EXISTING EQUIPMENT INCLUDING PUMPS, WATER HEATERS AND STORAGE TANKS CONSISTENT WITH DESIGNATION ON PLANS. SMALL DEVICES, SUCH AS IN-LINE PUMPS, MAY BE IDENTIFIED WITH METAL TAGS. IDENTIFY SERVICE OF ALL EQUIPMENT. FOR EXAMPLE, "CELLAR LEVEL SOUTH WING". INSTALL PLASTIC NAMEPLATES WITH CORROSIVE RESISTANT MECHANICAL FASTENERS, OR ADHESIVE OVER FINISH PAINT OR INSULATION.

B.) IDENTIFY CONTROLS; IDENTIFY ALL NEW AND EXISTING PANELS AND MAJOR CONTROL COMPONENTS OUTSIDE PANELS WITH NAMEPLATES. PROVIDE PERMANENT LABELS FOR ALL CONTROLS AND LIMITS WHICH STATE FUNCTION OF EACH CONTROLLER AND CONTROL SET—POINTS. LABEL AUTOMATIC CONTROLS, INSTRUMENTS, RELAYS AND DEVICES. PROVIDE 3 COPIES OF A CONTROLS SCHEMATIC PLAN AND A KEY TO ABBREVIATIONS. PLAN SHALL BE 11"x17" AND LAMINATED IN PLASTIC.

C.) <u>IDENTIFY VALVES</u>; IDENTIFY ALL NEW AND EXISTING VALVES IN MAIN AND BRANCH PIPING WITH BRASS TAGS. INSTALL TAGS USING CORROSION RESISTANT CHAIN. NUMBER TAGS CONSECUTIVELY BY LOCATION AND SERVICE.

D.) IDENTIFY PIPING; IDENTIFY ALL NEW AND EXISTING PIPING WITH MARKERS. USE TAGS ON PIPING 3/4 INCH DIAMETER AND SMALLER. IDENTIFY SERVICE, FLOW DIRECTION, AND PRESSURE. INSTALL IN CLEAR VIEW AND ALIGN WITH AXIS OF PIPING. DISTANCE BETWEEN MARKERS NOT TO EXCEED 20 FEET, INCLUDING RISERS AND DROPS. PLACE MARKERS ADJACENT TO VALVE AND TEE, AND AT EACH SIDE OF A WALL PENETRATION. LABELING SHALL BE IN CONFORMANCE WITH OSHA AND ANSI A13.1. COLOR SHALL CONFORM TO ANSI/ASME A13. APPLY PAINT, PRIMER OR INSULATION BEFORE APPLYING LABELS. DEGREASE AND CLEAN SURFACES TO RECEIVE ADHESIVE FOR IDENTIFICATION MATERIALS.

CONTRACTOR TO PROVIDE OPTI-CODE LABELS FOR ALL NEW PIPING. LETTERS AND ARROWS INDICATING FLOW SHALL BE 2 1/2" HIGH, PLACED EVERY 10' AND SHALL BE WHITE ON A GREEN BACKGROUND AND SHALL CONFORM TO ANSI AND OSHA STANDARDS. LABEL ALL COLD WATER, HOT WATER PIPING AS FOLLOWS: "COLD WATER", "HOT WATER". APPLY OVER INSULATION ONLY.

E.) PROVIDE VALVE SCHEDULE; MINIMUM OF 8.5" X 11" IN ALUMINUM FRAME WITH CLEAR GLASS FACE. INSTALL IN THE BOILER ROOM OR AT LOCATION AS DIRECTED BY THE OWNER. INDICATE VALVE #, SIZE, SERVICE AND N.O. OR N.C. GROUP BY SERVICE. EXAMPLE SCHEDULE AS FOLLOWS:

"EXAMPLE" VALVE TAG SCHEDULE					
NUMBER	SIZE	SERVICE	N.O./N.C.		

F.) MANUFACTURER:

- 1.) W.H. BRADY CO., SIGNMARK DIVISION.
- 2.) ATLANTIC ENGRAVING COMPANY.3.) SETON NAME PLATE CO.
- 3.) SETON NAME PLATE
 4.) MSI SERVICES.

P-11 MOTOR CONTROLS & WIRING

A.) SUITABLE STARTING AND CONTROLLING EQUIPMENT AND DEVICES SHALL BE FURNISHED AND INSTALLED AS SPECIFIED OR INDICATED ON PLAN AND AS REQUIRED TO OBTAIN THE MANNER OF CONTROL AND MONITORING AS DESCRIBED IN THE SEQUENCE OF OPERATIONS. THE INSTALLATION OF ALL EQUIPMENT AND WIRING SHALL CONFORM TO THE REQUIREMENTS OF STATE AND LOCAL CODES, NEMA, AND THE NEC.

B.) FURNISH AND TURN OVER THE ELECTRICAL CONTRACTOR WHO SHALL ERECT AND WIRE THE SAME, SUITABLE STARTING CONTROLLING EQUIPMENT, AND DISCONNECT SWITCHES FOR EACH MOTOR AND EACH ELECTRICALLY OPERATED PIECE OF EQUIPMENT.

C.) THE ELECTRICAL CONTRACTOR WILL ERECT ALL STARTING EQUIPMENT FURNISHED UNDER THIS SECTION, EXCEPT STARTERS SPECIFIED TO BE FACTORY MOUNTED AND WIRED AS ALL INTEGRAL PART OF THE EQUIPMENT, AND WILL DO ALL WIRING NECESSARY TO SUPPLY POWER TO THE ELECTRIC MOTOR PROVIDED UNDER THIS SECTION, INCLUDING POWER TO THE STARTERS AND CONNECTIONS FROM STARTERS TO THE MOTORS. THE ELECTRICAL CONTRACTOR SHALL FURNISH 120V POWER TO TEMPERATURE CONTROL PANELS, VAV BOXES AND EQUIPMENT REQUIRING SEPARATE 120V CONTROL POWER SOURCE. POWER FOR CONTROL CIRCUITS FOR ALL DEVICES CONNECTING TO MOTOR STARTERS SHALL BE OBTAINED FROM STARTERS.

D.) THIS CONTRACTOR SHALL INSTALL ALL MOTOR CONTROL, TEMPERATURE CONTROL WIRING AND INTERLOCK CONTROL WIRING BETWEEN MOTORS AND STARTERS, EXCLUSIVE OF MOTOR POWER WIRING.

E.) ALL CONTROLLERS SHALL BE ALLEN-BRADLEY, CUTLER-HAMMER, OR GENERAL ELECTRIC, FULLY ENCLOSED IN NEATLY FURNISHED VENTILATED BOXES. CONTROLLERS SHALL BE OF THE COMBINATION STARTER AND UNFUSED SWITCH TYPE.

F.) UNLESS OTHERWISE INDICATED. NEMA ENCLOSURES FOR MOTORS LOCATED INDOORS SHALL BE DRIP PROOF AND FOR MOTORS LOCATED OUTDOORS SHALL BE TOTALLY ENCLOSED FAN COOLED. OPEN DRIP PROOF MOTORS SHALL MEET THE FOLLOWING:

<u>HP</u> <u>%EFF</u> 1.0 85.5

P-12 PIPING MATERIALS

PIPING MATERIALS					
SERVICE	SIZE (IN)	MATERIAL	TYPE/WEIGHT	STANDARD	
HOT WATER	THRU 2"	COPPER	TYPE L/HRD TMPR	ASTM B88 ASTM	
COLD WATER	ALL	COPPER	TYPE L/ HARD TEMPER	ASTM B88	
DRAIN	THRU 2"	PVC	DWV	ASTM D 2665 ASTM D 2949 CSA B 181.2 CSA B 182.2	
PIPE FITTINGS					
SERVICE	SIZE (IN)	MATERIAL	TYPE/WEIGHT	STANDARD	
HOT WATER	THRU 2"	COPPER	95/5 SOLDER	ASME B16.9	
COLD WATER	ALL	COPPER	95/5 SOLDER STANDARD	ASME B16.22	
DRAIN	THRU 2"	PVC	DWV	ASTM D 2665 ASTM D 2949 CSA B 181.2 CSA B 182.2	

P-13 PIPE INSULATION

A.) INSULATE ALL NEW PIPING, AND EXISTING PIPING AS PER THE SCHEDULE BELOW. INSULATION SHALL BE APPLIED IN SUCH A WAY AS TO PERMIT EXPANSION OR CONTRACTION OF PIPING WITHOUT CAUSING DAMAGE TO INSULATION OR SURFACE FINISH. REFER TO INSULATION GENERAL REQUIREMENTS FOR ADDITIONAL REQUIREMENTS.

B.) VALVES, STRAINERS, FITTINGS AND FLANGES SHALL BE INSULATED WITH IDENTICAL MATERIAL DENSITY, THICKNESS AND SURFACE FINISH AS THE PIPING INSULATION. PREMOLDED INSULATION MATERIAL SHALL BE USED WHERE AVAILABLE, OTHERWISE SHAPED BLOCK SEGMENTS WIRED ON WITH ALL EDGES FILLED WITH INSULATION CEMENT OR FILLER SHALL BE USED.

C.) VALVES SHALL BE INSULATED UP TO AND INCLUDING BONNETS. A COLLAR OF SECTIONAL BLOCK INSULATION SHALL BE PROVIDED OVER THE FLANGES AND EXTEND A MINIMUM OF 2" OVER THE ADJACENT PIPE INSULATION, FASTEN IN SUCH A WAY AS TO PERMIT EASY REMOVAL. ANNULAR SPACES SHALL BE FILLED WITH LOOSE INSULATION. STRAINERS SHALL BE INSULATED TO PERMIT REMOVAL OF THE BASKET WITHOUT DISTURBING THE INSULATION OF THE STRAINER BODY.

D.) HOT & COLD WATER: GLASS FIBER INSULATION; ANSI/ASTM C547; 'K' VALUE OF 0.23 AT 75° F; NONCOMBUSTIBLE. MINIMUM DENSITY OF 3.5 LBS./CU. FT.; TEMPERATURE RANGE 35° F TO 450° F THICKNESS AS PER SCHEDULE.

E.) FACTORY APPLIED, WHITE, FLAME RETARDANT, ALL SERVICE (ASJ) VAPOR BARRIER JACKET OF .001" ALUMINUM FOIL LAMINATED TO KRAFT PAPER WITH A FLAME RETARDANT SNUFFER TYPE ADHESIVE REINFORCED WITH GLASS FIBERS AND HAVING A SELF SEALING LAP. PROVIDE 2" LONGITUDINAL LAP AND 4" CIRCUMFERENTIAL SEALING STRIPS. PERMEABILITY .02 PERM. INSULATION AND VAPOR BARRIER SHALL BE CONTINUOUS THROUGH HANGERS AND SLEEVES.

F.) FOR ALL PIPING 2" OR LARGER FURNISH SHIELDS OF GALVANIZED STEEL BETWEEN PIPE HANGERS OR PIPE HANGER ROLLS AND INSERTS BETWEEN SUPPORT SHIELD AND PIPING AND UNDER THE FINISH JACKET. FURNISH INSERTS A MINIMUM 6 INCHES LONG, OF SAME THICKNESS AND CONTOUR AS ADJOINING INSULATION, INSERT MATERIAL SHALL BE HYDROUS CALCIUM SILICATE INSULATION OR OTHER HEAVY DENSITY INSULATING MATERIAL SUITABLE FOR THE PLANNED TEMPERATURE RANGE.

G.) ALL PIPING, VALVES AND FITTINGS INSTALLED IN MECHANICAL EQUIPMENT ROOMS OR THAT ARE EXPOSED, NOT ENCLOSED WITHIN WALLS OR ABOVE FINISHED CEILING SHALL BE JACKED WITH GLOSS WHITE PVC JACKETS. ZESTON 2000 BY JOHNS MANVILLE OR EQUAL.

H.) LABEL ALL NEW PIPING WITH SETON ULTRA-MARK WEATHER RESISTANT FOR OUTDOOR APPLICATIONS, OPTI-CODE FOR INDOOR APPLICATIONS. INDICATE FLOW DIRECTION WITH ARROWS, AND CONTENTS WITH ABBREVIATIONS CONSISTENT WITH PLANS OR BUILDING STANDARDS. LABEL PIPING EVERY 25'. LABELS SIZE AND COLORS SHALL CONFORM TO OSHA AND ANSI STANDARDS. APPLY OVER INSULATION.

I.) ALTERNATE INSULATION MANUFACTURERS:

- 1.) KNAUF
- 2.) OWENS-CORNING
- 3.) CERTAIN TEED "SNAP-ON" 500 WITH SSL.
- 4.) JOHNS-MANSVILLE MICRO-LOK 650-AP-T

J.) INSULATION SCHEDULE

INSULATION SCHEDULE					
PIPING SYSTEM	THROUGH 1.5"	OVER 1.5"			
HOT WATER	1.5"	2"			
HOT WATER RECIRC	1.5"	2"			
COLD WATER	1.5"	1.5"			

P-14 PIPE INSTALLATION

A.) GENERAL REQUIREMENTS

1.) REFER TO DRAWINGS FOR REQUIRED PIPING LAYOUTS. CONNECTION DETAILS INDICATE REQUIRED PIPING AT VARIOUS PIECES OF EQUIPMENT. FLOOR PLANS INDICATE GENERAL ROUTING OF PIPING. SPECIFICATIONS DEFINE MATERIALS, INSTALLATION REQUIREMENTS, AND SUPPLEMENTARY REQUIREMENTS TO THOSE SHOWN ON DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE SYSTEM OF PIPING AND VALVES FOR A COMPLETE WORKING AND CODE COMPLIANT SYSTEM BASED ON ALL DOCUMENTATION PROVIDED.

2.) ALL PIPE SHALL BE NEW, CLEAN, OF DOMESTIC MANUFACTURE, AND MARKED WITH APPROPRIATE STANDARD.

3.) ECCENTRIC REDUCING FITTINGS OR ECCENTRIC REDUCING COUPLINGS SHALL BE USED WHERE REQUIRED BY THE CONTRACT DOCUMENTS OR WHERE REQUIRED TO PREVENT POCKETING OF LIQUID OR NON— CONDENSIBLES.

4.) ELECTROLYTIC COUPLINGS OR UNIONS SHALL BE INSTALLED BETWEEN COPPER AND STEEL PIPE.

5.) ALL JOINTS SHALL BE MADE IN A WORKMANLIKE MANNER USING CLEAN THREADS, DEBURRED PIPE AND PROPER MATERIALS. ALL JOINTS SHALL CONFORM TO THE APPLICABLE ANSI AND ASTM STANDARDS.

6.) PIPING SHALL BE INSTALLED IN STRAIGHT PARALLEL RUNS, PARALLEL TO PIPING OF OTHER TRADES. ROUTING SHALL BE COORDINATED WITH PIPING AND CONDUIT RUNS OF OTHER TRADES.

7.) WATER PIPING SHALL PITCH 1" IN 60 FEET, UPWARD IN DIRECTION OF FLOW. PROPER PROVISION SHALL BE MADE FOR EXPANSION AND CONTRACTION IN ALL PORTIONS OF PIPEWORK, TO PREVENT UNDUE STRAINS ON PIPING OR EQUIPMENT. ALL PIPE SHALL BE SUITABLY REINFORCED AT ALL ANCHOR POINTS. ALL RISERS SHALL BE INSTALLED WITH SWING JOINTS COMPRISED OF AT LEAST 4 ELBOWS.

8.) ALL CHANGES IN SIZE AND DIRECTION OF PIPING SHALL BE MADE WITH FITTINGS. DO NOT USE MITER FITTINGS, FACE OR FLUSH BUSHINGS, CLOSE NIPPLES OR STREET ELBOWS. ALL NIPPLES (PIPE LESS THAN 3" LONG) SHALL BE EXTRA HEAVY.

9.) ALL BRANCH CONNECTIONS SHALL BE MADE WITH TEES, EXCEPT THAT ON STEEL PIPING FORGED STEEL "WELDOLETS" AND "LATROLETS" AS MANUFACTURED BY BONNEY FORGE MAY BE USED WHERE THE BRANCH PIPE IS AT LEAST TWO NOMINAL PIPE SIZES LESS THAN THE MAIN PIPE.

10.) FITTINGS SHALL BE FACTORY MANUFACTURED. SHOP OR FIELD FABRICATED FITTINGS ARE NOT ACCEPTABLE. WELDING FITTINGS SHALL BE "TUBE—TURNS" OR EQUIVALENT. FITTINGS SHALL HAVE THE SAME PRESSURE RATING AS THE SYSTEM IN WHICH THEY ARE INSTALLED.

11.) QUALIFY WELDERS TO THE CODE FOR PRESSURE PIPING ANSI SPECIFICATIONS B31.1, WITH CERTIFICATION BY THE WELDING BUREAU OF HEATING, PIPING AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION. ASME STAMP SHALL BE PROVIDED AS REQUIRED.

B.) JOINTS AND CONNECTIONS

1.) SOLDERED OR SWEAT: SOLDERED OR SWEAT JOINTS FOR TUBING SHALL BE MADE WITH APPROVED FITTINGS. SURFACES TO BE SOLDERED OR SWEATED SHALL BE PROPERLY CLEANED AND REAMED. THE JOINTS SHALL BE PROPERLY FLUXED AND MADE WITH APPROVED SOLDER. JOINTS IN COPPER WATER TUBING SHALL BE MADE BY APPROPRIATE USE OF APPROVED BRASS OR WROUGHT COPPER WATER FITTINGS IN ACCORDANCE WITH ANSI B16.22, PROPERLY SWEATED OR SOLDERED TOGETHER.

2.) UNIONS: UNIONS IN THE WATER SUPPLY SYSTEM SHALL BE METAL—TO—METAL WITH GROUND SEATS. UNIONS ON DRAINAGE SYSTEMS MAY BE USED ONLY IN THE TRAP SEAL OR ON THE INLET SIDE OF THE TRAP. UNIONS SHALL HAVE METAL—TO—METAL GROUND SEATS.

3.) DIELECTRIC UNIONS/COUPLINGS: INSULATED UNION/COUPLINGS SHALL BE PROVIDED FOR CONNECTING DISSIMILAR MATERIALS. UNION SHALL HAVE A WATER IMPERVIOUS INSULATION BARRIER CAPABLE OF LIMITING GALVANIC CURRENT TO ONE PERCENT OF THE SHORT CIRCUIT CURRENT IN A CORRESPONDING BIMETALLIC JOINT. WHEN DRY, INSULATION BARRIER SHALL BE ABLE TO WITHSTAND A 600-VOLT BREAK DOWN TEST.

C.) PIPING CONNECTIONS TO EQUIPMENT FOR EXPANSION COMPENSATION

1.) FLANGES, UNIONS AND ISOLATION VALVES SHALL BE PROVIDED AT ALL FINAL CONNECTIONS TO EQUIPMENT AND CONTROL VALVES TO FACILITATE DISMANTLING. FLEXIBLE CONNECTIONS AND OFFSETS SHALL BE PROVIDED AND ARRANGED SO THAT THE EQUIPMENT MAY BE SERVED OR REMOVED WITHOUT DISTURBING THE PIPING.

2.) ALL AUTOMATIC VALVES SHALL BE PROVIDED WITH AN ISOLATION VALVE AND A STRAINER ON THE INLET SIDE.

3.) INSTALL ALL SUPPLY PIPING TO EQUIPMENT INCLUDING VALVES AND STRAINERS AT LINE SIZE WITH THE REDUCTION IN SIZE BEING MADE ONLY AT THE INLET TO THE CONTROL VALVE OR PUMP. INSTALL THE OUTLET PIPING FROM THE CONTROL VALVE AT THE FULL SIZE OF THE TAPPING IN THE EQUIPMENT SERVED.

4.) FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT CONNECTIONS TO PUMPS AND EQUIPMENT AND WHEREVER INDICATED ON DRAWING AND DETAILS. MASON INDUSTRIES TYPE BSS STAINLESS STEAL BRAIDED FLEXIBLE HOSE CONNECTIONS OR EQUIVALENT SHALL BE PROVIDED.

5.) HANGERS AND SUPPORTS FOR CONNECTED EQUIPMENT SHALL CONFORM TO THE CRITERIA FOR PIPING. NO WIRE, TAPE OR METAL BANDS ARE PERMITTED.

6.) FOR EQUIPMENT MOUNTED ON ISOLATION BASES AND WHEREVER INDICATED ON DRAWING AND DETAILS MERCER RUBBER CO./ MASON INDUSTRIES TYPE EM-RF-150 STAINLESS STEAL BRAIDED FLEXIBLE CONNECTIONS OR EQUIVALENT SHALL BE PROVIDED.



ENGINEERS

OLA Consulting Engineers

50 Broadway, Hawthorne, NY 10532

914.747.2800 8 West 38th Street, Suite 501 New York, NY 10018

olace.com

646.849.4110



75 Grasslands Rd, Valhalla, NY 10595 914.606-6600

2 ISSUED FOR BID 05/07/21

1 100% REVIEW 06/15/20

No. ISSUE OR REVISION DATE

No use, reproduction or dissemination may be made of this drawing and the concepts set forth without the prior written consent of 0'Dea, Lynch, Abbattista Consulting Engineers, PC. Copyright © 2021

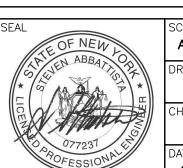
PROJECT TITLE

WCC PHYSICAL EDUCATION BUILDING DOMESTIC HOT WATER

PLUMBING SPECIFICATIONS

UPGRADE

75 Grasslands Rd, Valhalla, NY 10595



AS SHOWN NWCC0008.00

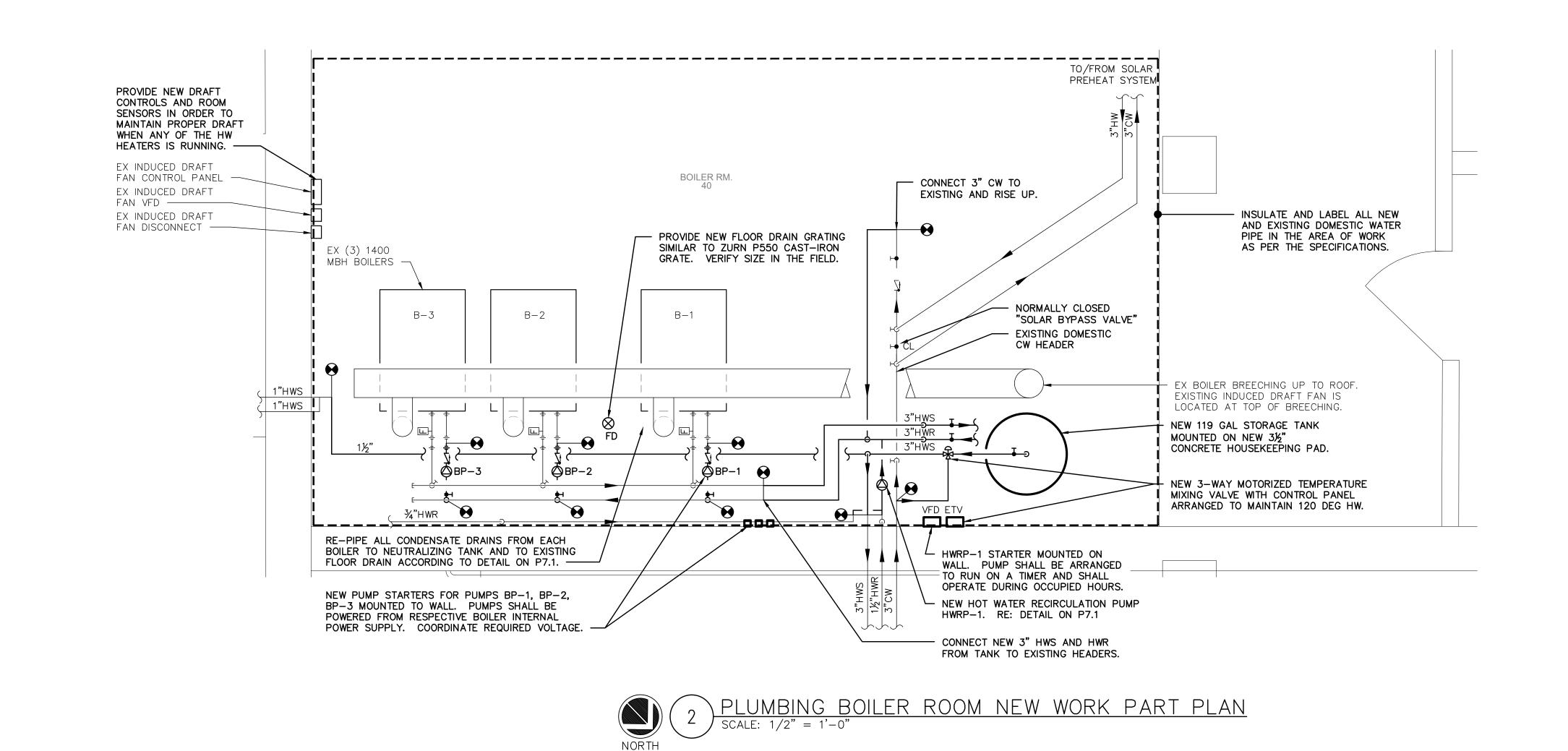
DRAWIN BY NW

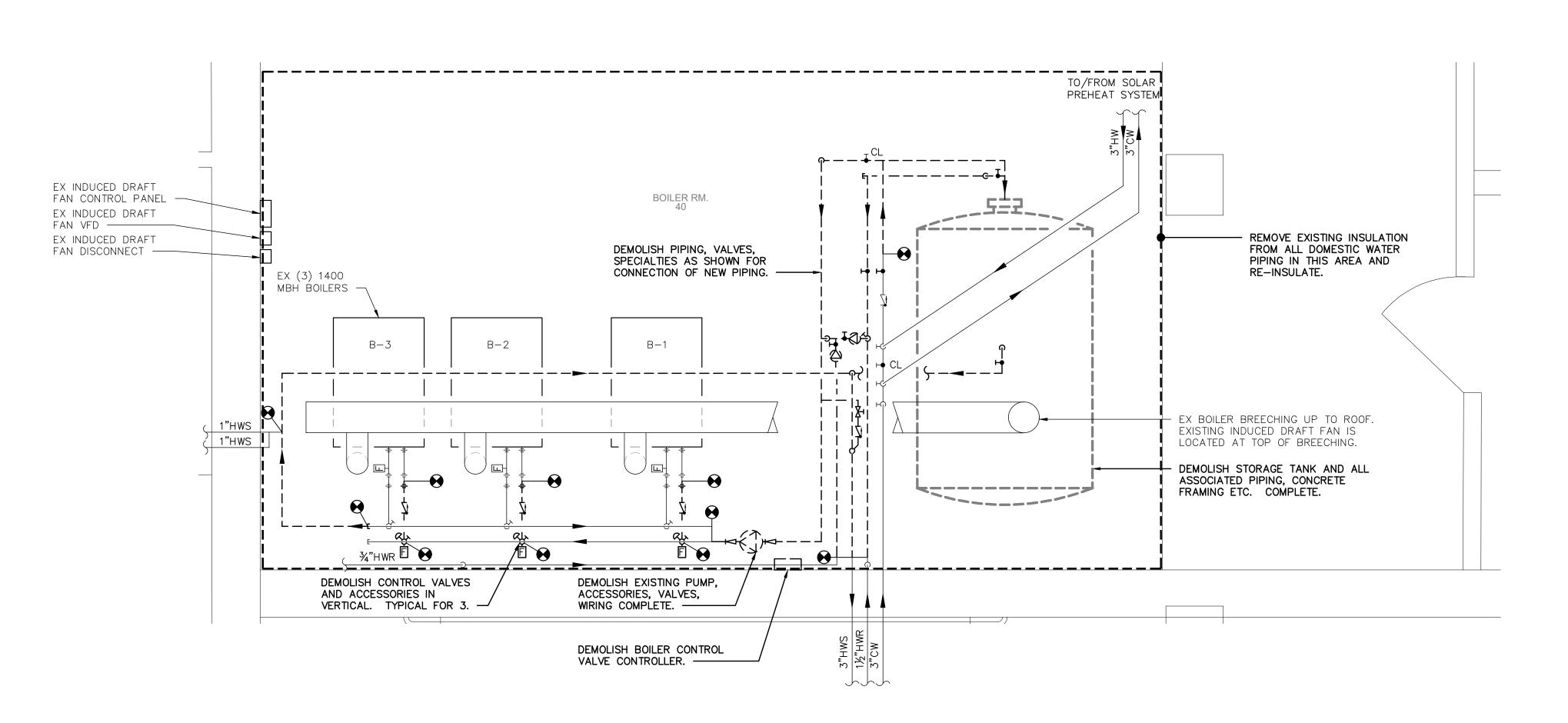
CHECKED BY RS

DATE
03-17-2020

PROJECT NO.

FILE PATH: I:\Projects\WCC\NWCC0008.00\Physical Education\P-001 SAVE DATE:6/16/2020 8:35 AM SAVED BY: nwallingford









OLA Consulting Engineers

50 Broadway, Hawthorne, NY 10532

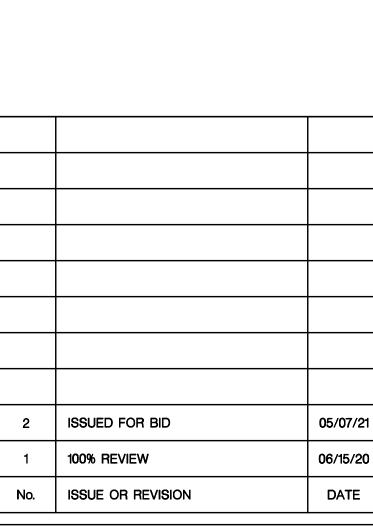
8 West 38th Street, Suite 501 New York, NY 10018 646.849.4110

olace.com

914.747.2800



75 Grasslands Rd, Valhalla, NY 10595 914.606-6600



No use, reproduction or dissemination may be made of this drawing and the concepts set forth without the prior written consent of O'Dea, Lynch, Abbattista Consulting Engineers, PC. Copyright © 2021

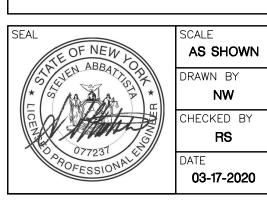
WCC PHYSICAL
EDUCATION BUILDING
DOMESTIC HOT WATER
UPGRADE
75 Grasslands Rd, Valhalla, NY 10595

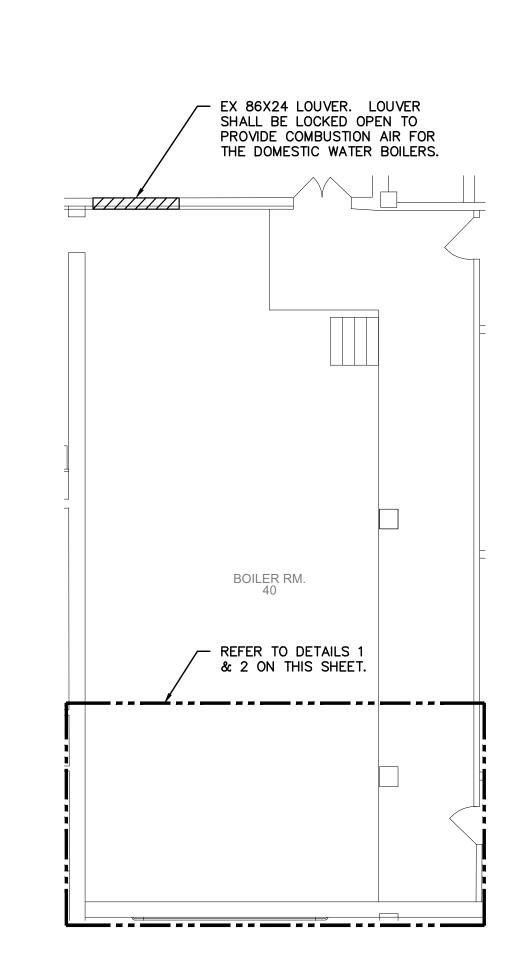
DRAWING TITI

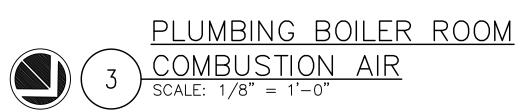
PLUMBING BOILER ROOM
PART PLANS

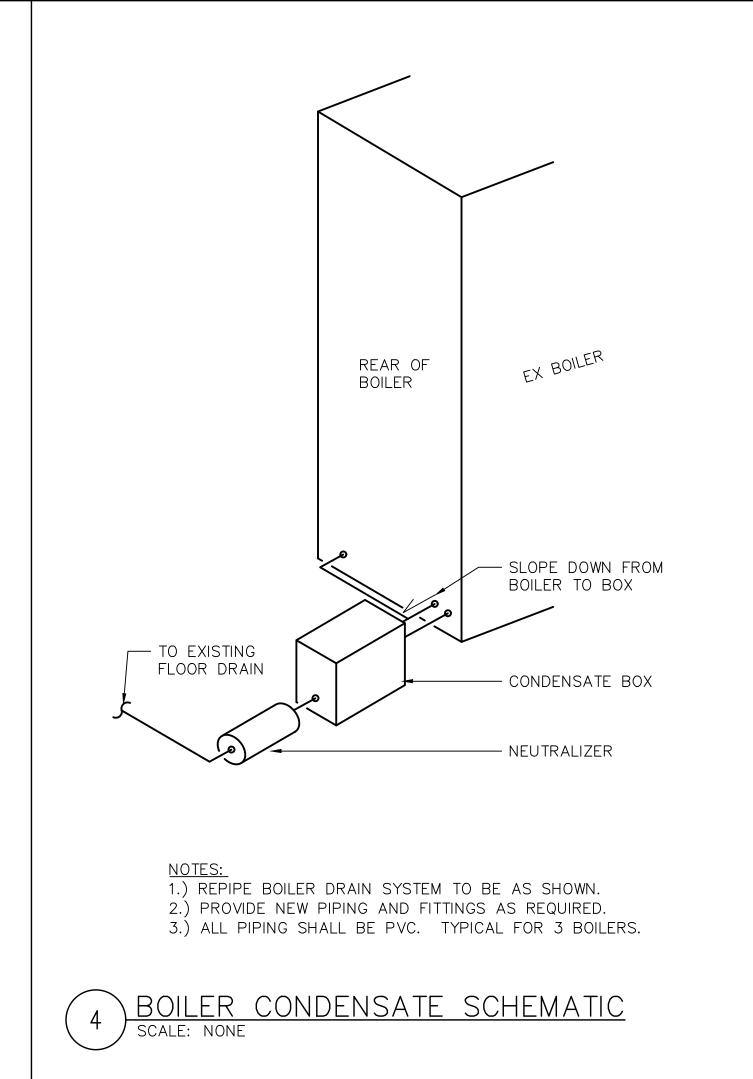
NWCC0008.00

DRAWING NO.









MEW HW RECIRC PUMP CONNECT TO

−120° HW

BOILER ROOM FLOOR

ETV

NEW BALANCING VALVES IN

145° HW 🛨

TANK

145°F

12GPM

I 3"HWS

3GPM

HWRP-1

CHECK

VALVE

¾"HWR |

HOT WATER RETURN LINES.

PROGRAMMABLE TIMECLOCK CONTROLLER.

3"CW CW FROM STREET

3"HWS TO BUILDING

ullet ETV CONTROL PANEL MOUNTED ON WALL.

ARRANGED TO SHUT VALVE IN CASE OF

PROVIDE 120V CIRCUIT TO PANEL.

VALVE FAILURE. SET TO 125F.

- TANK AQUASTAT ARRANGED

- NEW 119 GAL STORAGE TANK

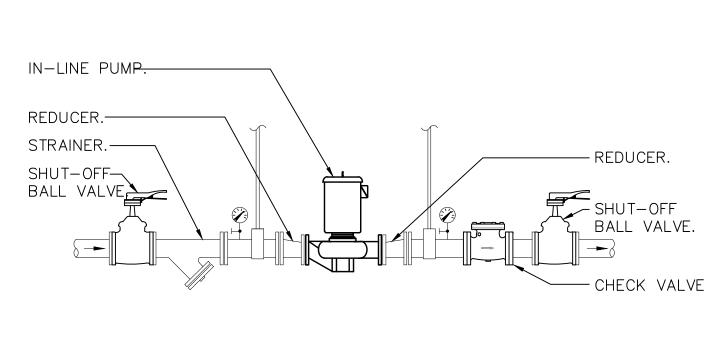
MOUNT TANK ON NEW 31/3"

CONCRETE HOUSE KEEPING PAD.

TO START BOILER.

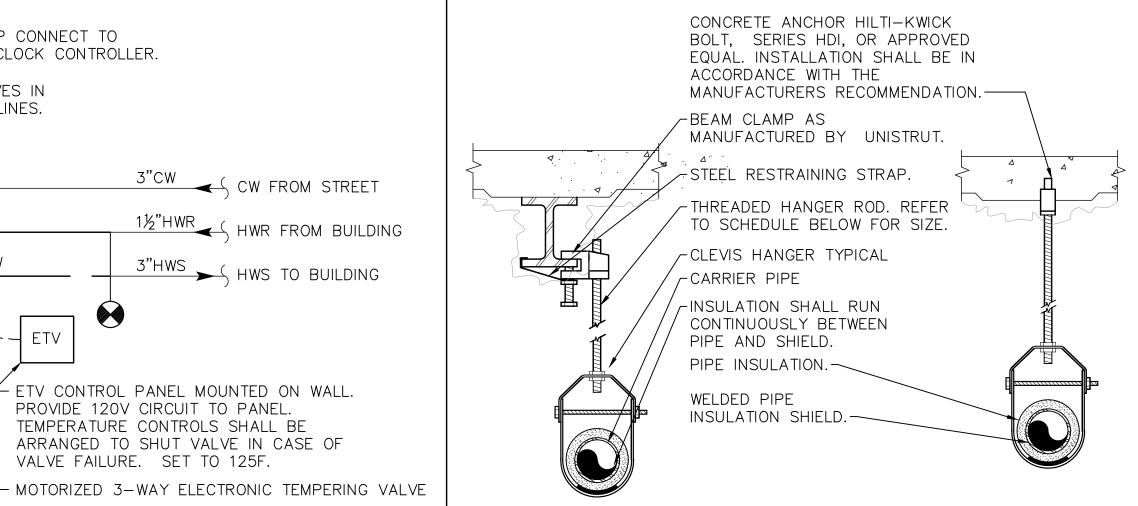
TEMPERATURE CONTROLS SHALL BE

1½"HWR HWR FROM BUILDING



NOTES:
1.) REFER TO PLANS FOR PIPE SIZES.

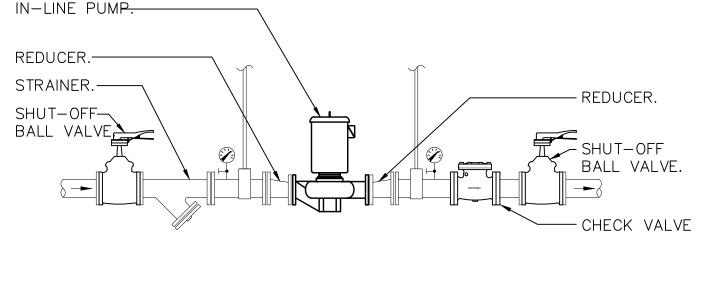
TYPICAL IN-LINE PUMP SCHEMATIC

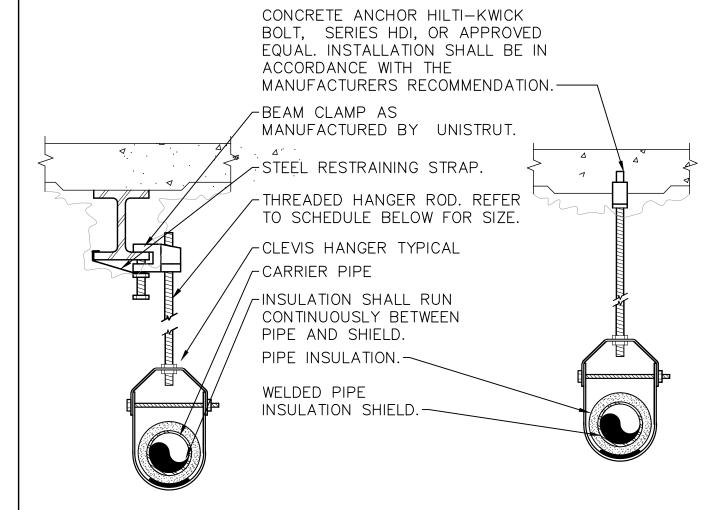


PIPE HANGER SCHEDULE PIPE DIA. 3/4"-2" 2 1/2"-3" 4"-5" 6" 8"-12" HANGER DIA. 3/8" 1/2" 5/8" 3/4" 7/8"

- FIG. 100SH ON ALL PIPES LARGER THAN 1".
- 2.) FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED SIMILAR TO RAUCH FIG. NO. 1ASH.
- 3.) FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
- BLACK WITH ENAMEL.
- COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.
- 6.) WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.

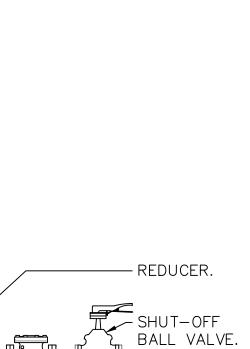


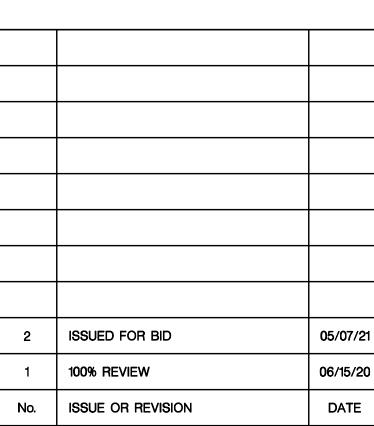




- 1.) CLEVIS HANGERS WITH WELDED INSULATION SHIELDS SIMILAR TO RAUCH
- 4.) ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED
- 5.) FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE







OLA Consulting Engineers

Hawthorne, NY 10532

8 West 38th Street,

New York, NY 10018

50 Broadway,

914.747.2800

646.849.4110

Community College

State University of New York

75 Grasslands Rd, Valhalla, NY 10595 914.606-6600

Suite 501

olace.com

Westchester

No use, reproduction or dissemination may be made of this drawing and the concepts set forth without the prior written consent of O'Dea, Lynch, Abbattista Consulting Engineers, PC. Copyright © 2021

WCC PHYSICAL EDUCATION BUILDING DOMESTIC HOT WATER UPGRADE

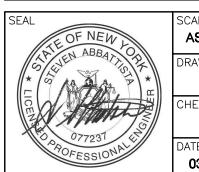
75 Grasslands Rd, Valhalla, NY 10595

DRAWING TITLE

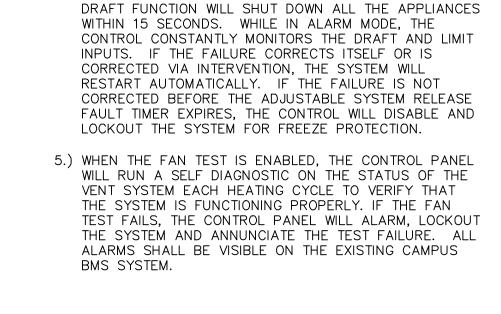
PLUMBING DETAILS

NWCC0008.00

DRAWING NO.



AS SHOWN RS 03-17-2020



1.) EACH HEATING APPLIANCE SHALL BE INTERLOCKED WITH

THE EXISTING INDUCED DRAFT FAN CONTROL PANEL.

ACTIVATE THE EXISTING INDUCED DRAFT FAN TO ESTABLISH DRAFT IN THE CHIMNEY SYSTEM. ONCE

UPON A CALL FOR HEAT, THE CONTROL PANEL SHALL

DRAFT CONDITIONS ARE MET, THE CONTROL SYSTEM WILL

REPEATED EVERY TIME AN INITIAL APPLIANCE CALLS FOR

HEAT, EACH ADDITIONAL CALL FOR HEAT, THE CONTROL

WILL NOT DELAY THE SEQUENCING OF THE ADDITIONAL

2.) WHEN APPLIANCES SHUT DOWN, THE INDUCED DRAFT FAN

WILL CONTINUE TO RUN IN POST-PURGE MODE FOR A

SET PERIOD OF TIME TO REMOVE RESIDUAL FLUE GASES.

MECHANICAL OR ELECTRICAL FAILURE, THE CONTROL WILL GO IN ALARM MODE AND THE INTEGRATED PROVEN

SYSTEM SECURES AND THE CONTROL PANEL ENTERS

3.) ONCE THE POST-PURGE CYCLE IS COMPLETED THE

4.) IF PROPER DRAFT CANNOT BE MAINTAINED OR AN

EXTERNAL MECHANICAL LIMIT OPENS BECAUSE OF

RELEASE THE FLAME PROGRAMMER OR GAS VALVE OF THE APPLIANCE CALLING FOR HEAT. THE SEQUENCE IS

FAN CONTROL SEQUENCE:

HEATING APPLIANCES.

STAND-BY MODE.

BP-2

1) PROVIDE PROGRAMMABLE TIMECLOCK CONTROLLER FOR HWRP-1. 2) CONTROLS SHALL BE PROVIDED TO FOLLOW THE SEQUENCE LISTED BELOW:

CW SOL CW

___ EX (3) 1400 MBH BOILERS

- NEW BOILER PUMPS POWERED

ARRANGED TO RUN WITH

RESPECTIVE BOILER.

AND CONTROLLED BY BOILERS.

BOILER SEQUENCE:

- UPON A DROP IN TANK TEMPERATURE, BOILER (B-1) SHALL BE ENERGIZED.
- BOILER B-1 SHALL INITIATE BOILER PUMP (BP-1) TO START. UPON CONFIRMATION OF FLOW FROM BP-1, BOILER B-1 SHALL START FIRING.
- IF BOILER TEMPERATURE CONTINUES TO DROP, THERE SHALL BE CASCADING CONTROLS INTERNAL TO THE BOILERS FROM THE BOILER MANUFACTURER TO INITIATE THE OTHER BOILERS TO ENERGIZE.

TO EXISTING CAMPUS

B-3

B-2

B-1