IRVINGTON UNION FREE SCHOOL DISTRICT FACILITIES STORAGE BUILDING

ABBF	REVIATIONS			GENERAL	NOTES			DR	RAWING L
AB A/C ACI	ANCHOR BOLT AIR CONDITIONING AMERICAN CONCRETE	FAI F.C. FD	FRESH AIR INTAKE FIRE CODE FLOOR DRAIN	STATE, 2020 FIRE CO		BUILDING CODE OF NEV ATE AND THE NEW YORK ANNING STANDARDS.			ORMATIONAL DR GENERAL NOTES STAGING PLAN, E
ACST ACT	INSTITUTE ACOUSTIC ACOUSTICAL CEILING TILE	FIN FR FTG	FINISH FIRE RETARDANT FOOTING	2. ALL NOTES APPEARI APPLY TO ALL DRAW	,	DSE ON VARIOUS DRAWI T OF THE CONTRACT DO		G1.0 G1.1	CODE ANALYSIS
ACU AD ADJ	AIR CONDITIONING UNIT ACCESS DOOR ADJUSTABLE A/E ARCHITECT/ENGINEER	GA GWB GYP	GAUGE GYPSUM WALL BOARD GYPSUM			ANTITIES OF ALL ITEMS A	,	CD10	L DRAWINGS 0.00 EXISTING CON
AFF ALUM ANCH	ABOVE FINISH FLOOR ALUMINUM ANCHOR ANSI AMERICAN NATIONAL STANDARDS	gyp. Bd. HC HM Hor	GYPSUM BOARD HANDICAPPED HOLLOW METAL HORIZONTAL	4. DO NOT SCALE MEAS	SURE ANY DRAWING.			C101.	.00 SITE IMPROVE .00 SANITARY ALI .00 SITE DETAILS
APA APPROX	INSTITUTE ACCESS PANEL APPROXIMATELY	HW INSUL INT	HOT WATER INSULATION/INSULATING INTERIOR			ERRORS, INACCURACIES N IN WRITING BEFORE BE	,	S001.	UCTURAL DRAV
ASPH ASTM AWS	ASPHALT AMERICAN SOCIETY FOR TESTING & MATERIALS AMERICAN WELDING SOCIETY	LAV LDR LT MAX	LAVATORY LEADER LIGHT MAXIMUM	5. ALL WORK SHALL CC AS REQUIRED. STRIC INSTRUCTIONS.		ICABLE CODES, LAWS A NUFACTURER'S PRINTED		S102.	00 SLAB PLAN 00 ROOF FRAMIN 00 STRUCTURAL
B BAL BB	FIRE BLANKET BALANCE BULLETIN BOARD	MECH MISC MO	MECHANICAL MISCELLANEOUS MASONRY OPENING	6. VERIFY EXACT LAYO BEFORE BEGINNING		TH ALL EXISTING CONDI	ITIONS		HITECTURAL DF
BD BLDG BLK BLKG BM	BOARD BUILDING BLOCK BLOCKING BEAM	MR NIC NTS OC OD	MOISTURE RESISTANT NOT IN CONTRACT NOT TO SCALE ON CENTER OUTSIDE DIAMETER	SHALL BE RESPONSI	ERWISE. PROTECT AL	L OTHER AREAS. CONT	RACTORS	A1.1 A2.0 A3.0 A6.0	ROOF PLAN
B.O. BOL BOT	BOTTOM OF BOTTOM OF LINTEL BOTTOM	PLYWD PSF PSI	PLYWOOD POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH	8. EACH CONTRACTOR PROVIDE WHERE API		THE REQUIREMENTS OI		P0.0	MBING DRAWING
CEIL CEM CER CLO CMU	CEILING CEMENT CERAMIC CLOSET CONCRETE MASONRY UNIT	PTD PVC R RCP RD	PAINTED POLYVINYL CHLORIDE RADIUS OR RISER REFLECTED CEILING PLAN ROOF DRAIN			S THE WORK PROGRESS			SITE PLAN AND E GROUND FLOOR PLUMBING DETAI PLUMBING RISER
COL CONC CONST CONT	COLUMN CONCRETE CONSTRUCTION CONTINUOUS	REINF RM RO SIM	REINFORCED ROOM ROUGH OPENING SIMILAR		CATIONS AND APPROV	IE SITE ONE RECORD CC /ED SHOP DRAWINGS AN Y TO RECORD ALL CHAN	ND	HVA H0.0 H1.0	C DRAWINGS HVAC LEGENDS, HIGH SCHOOL FA
CORR CPT DS DW DWG	CORRIDOR CARPET DOWNSPOUT DISHWASHER DRAWING	SPEC SQ SS STL TEMP	SPECIFICATIONS SQUARE STAINLESS STEEL STEEL TEMPERATURE	BY THE ARCHITECT F	IELD CONDITIONS OR PRIOR TO EXECUTION	OR IN THE CONSTRUCTIO OMISSION SHALL BE DO . ANY INCREASE OR DEC ED IN WRITING PRIOR TO	CUMENTED CREASE IN	E0.0 E1.0	VATION DRAWIN ELECTRICAL LEG ELECTRICAL SITE
EA EL ELEC ELEV	EACH ELEVATION ELECTRIC/ELECTRICAL ELEVATOR	TER THK TYP UTIL	TERRAZZO THICK TYPICAL UTILITY	THE SCOPE OF WOR	ISPECTED THE SITE AI K AND ALL FIELD CON	ND IS COMPLETELY FAM DITIONS RELATED TO, A	IILIAR WITH ND	E2.0 E2.1 E3.0	ELECTRICAL PAR BUILDING POWE ELECTRICAL FAC ELECTRICAL SIN
EP EPY EQ EQUIP EXIST EXST	ELECTRICAL PANEL EPOXY COATING EQUAL EQUIPMENT EXISTING EXHAUST	VB VCT VERT VTR WC WH	VAPOR BARRIER VINYL COMPOSITION TILE VERTICAL VENT THRU ROOF WATER CLOSET WATER HEATER	WORK AND IT'S PERF SHALL BE BROUGHT SUBMISSION OF BIDS THE CONTRACT PRIC	FORMANCE, OR CONF TO THE ATTENTION O S. FAILURE TO DO SO CE IT SHALL BE THE CO	IANCE. EXCEPTIONS AFF LICTS BETWEEN FIELD C OF THE ARCHITECT PRIO WILL NOT RESULT IN A C ONTRACTOR'S SOLE RES DATIONS TO COMPLETE T	CONDITIONS, R TO THE CHANGE TO SPONSIBILITY		
LOCA		WWF		SYMBOLS	LEGEND			UN	
_ /	Man		Car	DESCRIPTION	<u>SYMBOL</u>	DESCRIPTION	SYMBOL		HE OCCUPIED POR DMPLY WITH THE M
Č.				ROOM DESIGNATION	GYMNASIUM	GYPSUM		CE	ERTIFICATE OF OCO
	faraoun t	Abbott Ho	ouse 🔍			CONCRETE		TH	E COMMISSIONER
5	Villa Lewaro 🤤	Strawberry Ly		SECTION MARK	1 A5.0	AGGREGATE SUB-BASE		3. "Gl	IOWN TO CONTAIN
	MU I	Circle DX	0	DETAIL SYMBOL	1 	EARTH			OJECTS: ALL CONSTRUCTI SECURE MANNER
ck Cat Ca	fe /Irvington High	School	പെ സ	ELEVATION KEY	1 A4.0	BATT INSULATION		(2)	FENCES AROUND
	Irvington Town Hall Theater			INTERIOR ELEVATION		PLYWOOD		(3)	GATES SHALL ALV ATTENDANCE TO
Ir	v i n g t LOCATION			REFERENCE		RIGID INSULATION		(4)	DURING EXTERIO SHALL BE PROVID
	Dogwo	Dodla			↓	STEEL		/ r \	BENEATH THE WO
- Star	Samore Ln	-960	10.	REVISION	<u>_5</u>	WOOD		(5)	WORKERS SHALL BADGES AT ALL T WHILE WORKING
Station Rd	Harriman R		Caterlawn Rd Hat	PARTITION TYPE	{3}	WOOD BLOCKING	\bowtie	CC	EPARATION OF CO DNSTRUCTION ARE DNTRACTOR AND 1
ows Lane ementary	School	Shady Ln	Harriman Rd Har					ST SH CC INS	UDENTS SHALL BE IALL BE MADE TO DNTAMINANTS INTO SPECTION AND REF ADE TO PREVENT F
i i		. 3	4	1				IVI/ ^A	UE IU FREVENI

40 N. BROADWAY, IRVINGTON, NY 10533

SED PROJECT CONTROL NUMBER 66-04-02-02-2-022-001

CONTRACT G - GENERAL CONSTRUCTION, HVAC CONSTRUCTION, ELECTRICAL CONSTRUCTION, PLUMBING CONSTRUCTION, CIVIL & SITE WORK

LIST	STAGING PLAN
DRAWINGS ES, MAPS, DRAWING LIST, I, EXIT PLAN & LEGENDS IS ONDITIONS AND DEMOLITION SITE PLAN WEMENT PLAN ALIGNMENT PLAN LS AWINGS OTES IN PLAN MING PLAN AL SECTIONS AL DETAILS DRAWINGS REFLECTED CEILING PLAN TION AND WALL SECTION JLE AND DETAILS NGS TES, LEGEND ABBREVIATIONS, AND SCHEDULES DEXISTING BASEMENT PLAN R PLANS ALLS	STAGING NOTES 1. POST SIGNS INDICATING CONSTRUCTION AREA AND CONSTRUCTION EMPLOYE 2. CONSTRUCTION FENCE TO BE 8'0' HIGH CHAIN LINK FENCE LOCATED A MINIMU- FROM ALL WINDOW OPENINGS. ALL GATES ARE TO BE LOCKED AT ALL TIMES. E WHEN A WORKER IS IN ANTENDANCE TO PREVENT UNAUTHORIZED ENTRY. 3. CONTRACTOR IS TO STAGE ON THE SITE IN SUCH A MANNER AS TO NOT BLOCK OR ENCROACH UPON EXISTING EXITS/ENTRANCES TO BUILDING, AND VEHICLE ACCESS 0 0 0 0 0 0 0 0 0 0 0 0 0
ER DIAGRAMS S, SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES FACILITIES STORAGE BUILDING HVAC CONSTRUCTION /INGS EGENDS ITE PLAN ARTIAL LOWER LEVEL CAFE - SCIENCE - MUSIC VER PLAN ACILITIES STORAGE BUILDING PLAN INGLE LINE DIAGRAM, DETAILS AND SCHEDULES	STAGING AREA STAGING AREA CAFE-SCIENCE-MUSIC BUILDING SYMBOLS STAFF ENTRANCE / EGRESS

SAFETY STANDARDS - FOR SCHOOL CONSTRUCTION AND MAINTENANCE PROJECTS (NYSED 155.5 REGULATION)

ORTION OF ANY SCHOOL BUILDING SHALL ALWAYS E MINIMUM REQUIREMENTS NECESSARY TO MAINTAIN A OCCUPANCY."

- ORTION OF ANY SCHOOL BUILDING SHALL COMPLY WITH ER OF EDUCATION 155.5 UNIFORM SAFETY STANDARDS.
- RK TO BE DISTURBED DURING THIS PROJECT ARE AIN ASBESTOS AND SHALL BE ABATED AS SHOWN.
- Y AND SECURITY STANDARDS FOR CONSTRUCTION
- CTION MATERIALS SHALL BE STORED IN A SAFE AND

IND CONSTRUCTION SUPPLIES OR DEBRIS SHALL BE

ALWAYS BE LOCKED UNLESS A WORKER IS IN TO PREVENT UNAUTHORIZED ENTRY.

RIOR RENOVATION WORK, OVERHEAD PROTECTION VIDED FOR ANY SIDEWALKS OR AREAS IMMEDIATELY WORK SITE OR SUCH AREAS SHALL BE FENCED OFF AND TH WARNING SIGNS TO PREVENT ENTRY.

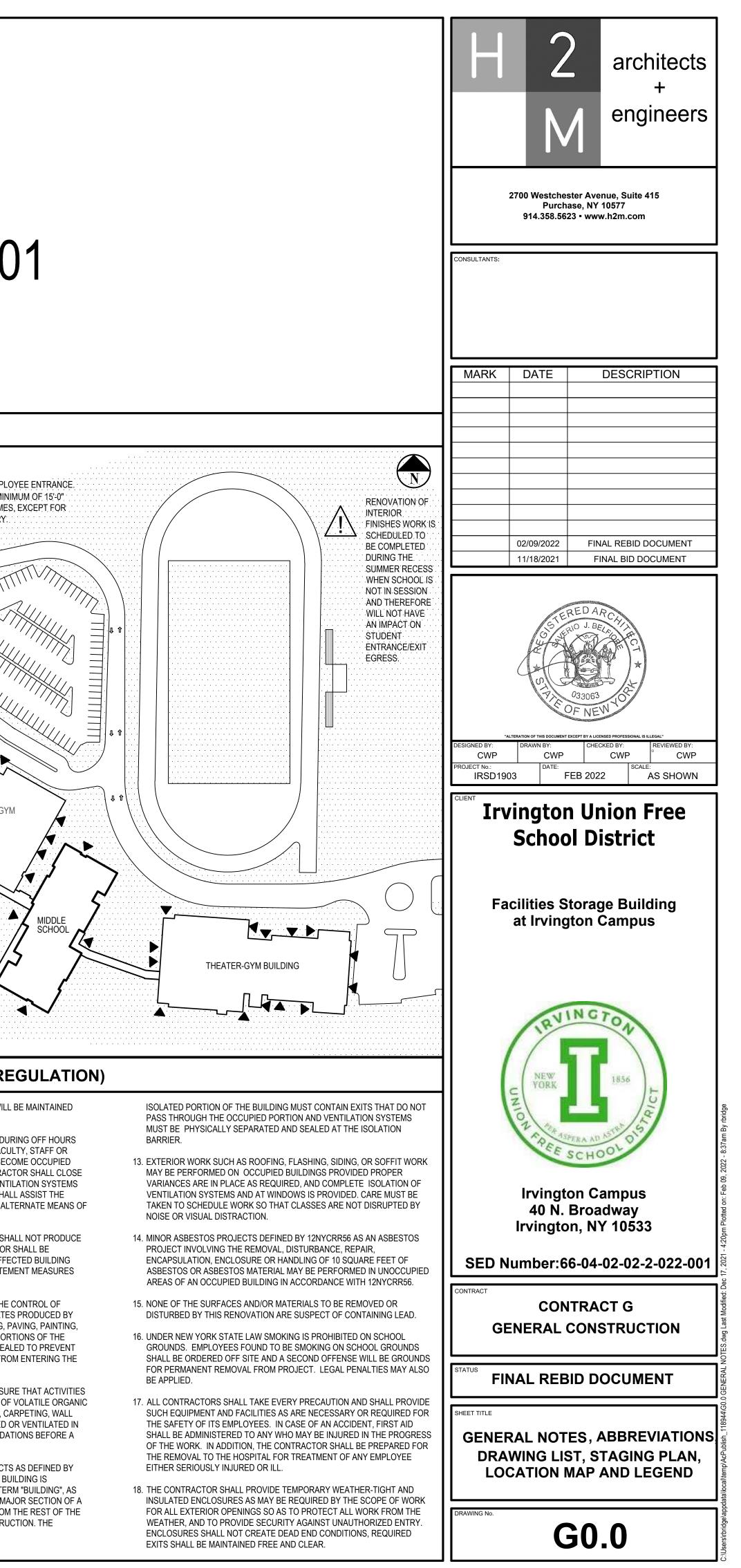
ALL BE REQUIRED TO WEAR PHOTO-IDENTIFICATION _ TIMES FOR IDENTIFICATION AND SECURITY PURPOSES NG AT OCCUPIED SITES."

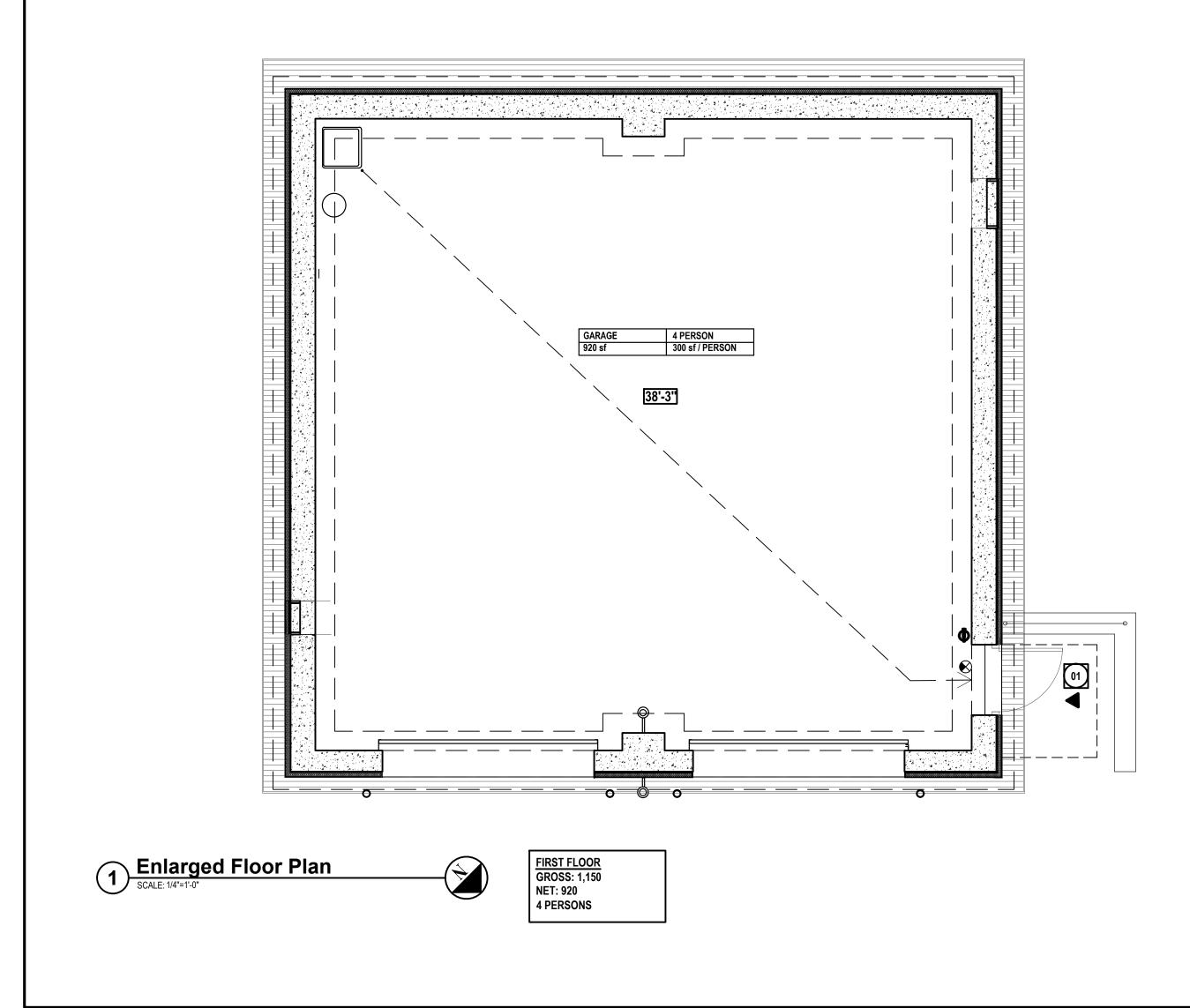
CONSTRUCTION AREAS FROM OCCUPIED SPACES: REAS WHICH ARE UNDER THE CONTROL OF A ID THEREFORE NOT OCCUPIED BY DISTRICT STAFF OR BE SEPARATED FROM OCCUPIED AREAS. PROVISIONS O PREVENT THE PASSAGE OF DUST AND NTO OCCUPIED PARTS OF THE BUILDING. PERIODIC REPAIRS OF THE CONTAINMENT BARRIERS MUST BE EXPOSURE TO DUST OR CONTAMINANTS. GYPSUM

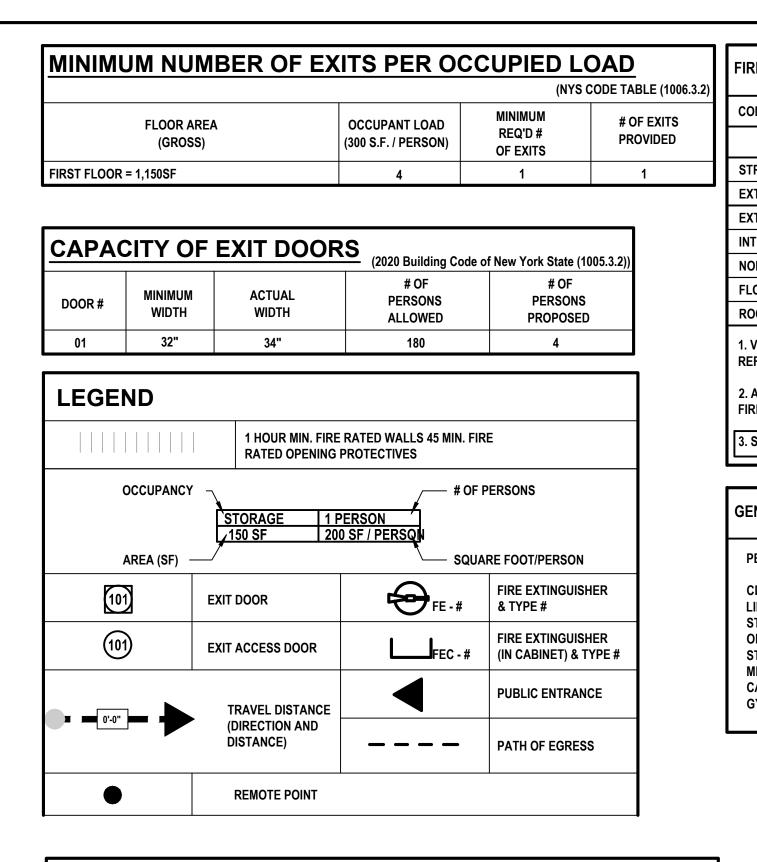
BOARD MUST BE USED IN EXIT WAYS OR OTHER AREAS THAT REQUIRE FIRE RATED SEPARATION. HEAVY DUTY PLASTIC SHEETING MAY BE USED ONLY FOR A VAPOR, FINE DUST OR AIR INFILTRATION BARRIER, AND SHALL NOT BE USED TO SEPARATE OCCUPIED SPACES FROM CONSTRUCTION AREAS.

- (1) A SPECIFIC STAIRWELL AND/OR ELEVATOR SHALL BE ASSIGNED OR CONSTRUCTION WORKER USE DURING WORK HOURS. IN GENERAL, WORKERS MAY NOT USE CORRIDORS, STAIRS OR ELEVATORS DESIGNATED FOR STUDENTS OR SCHOOL STAFF. WHERE NO STAIRWELL AND OR ELEVATOR IS ASSIGNED, WORKERS MUST ENTER THE CONSTRUCTION SPACES DIRECTLY FROM THE BUILDING EXTERIOR.
- (2) LARGE AMOUNTS OF DEBRIS MUST BE REMOVED BY USING ENCLOSED CHUTES OR A SIMILAR SEALED SYSTEM. THERE SHALL BE NO MOVEMENT OF DEBRIS THROUGH HALLS OF OCCUPIED SPACES OF THE BUILDING. NO MATERIAL SHALL BE DROPPED OR THROWN OUTSIDE THE WALLS OF THE BUILDING.
- (3) ALL OCCUPIED PARTS OF THE BUILDING AFFECTED BY RENOVATION ACTIVITY SHALL BE CLEANED AT THE CLOSE OF EACH WORKDAY. SCHOOL BUILDINGS OCCUPIED DURING A CONSTRUCTION PROJECT SHALL MAINTAIN REQUIRED HEALTH, SAFETY AND EDUCATIONAL CAPABILITIES AT ALL TIMES THAT CLASSES ARE IN SESSION."
- 5. A PLAN DETAILING HOW EXITING REQUIRED BY THE APPLICABLE BUILDING CODE WILL BE MAINTAINED.
- 6. WORK UNDER THIS CONTRACT WILL BE CONDUCTED DURING THE SUMMER RECESS OR DURING AFTER SCHOOL HOURS WHEN THE BUILDING IS UNOCCUPIED. IF THE BUILDING BECOMES OCCUPIED THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ALL EXISTING MEANS OF EGRESS IN A CLEAR AND FREE MANNER, INCLUDING THE STORAGE OF MATERIALS AND STAGING OF EQUIPMENT ON THE SITE. IF ANY PORTION OF THE BUILDING DOES BECOME OCCUPIED THE ARCHITECT WILL PROVIDE A DETAILED PLAN FOR EXITING, OVERHEAD PROTECTION AND EGRESS IN ACCORDANCE WITH APPLICABLE BUILDING CODES.

- 7. A PLAN DETAILING HOW ADEQUATE VENTILATION WILL BE MAINTAINED DURING CONSTRUCTION.
- 8. WORK UNDER THIS PROJECT WILL BE COMPLETED DURING OFF HOURS WHEN THE BUILDING WILL NOT BE OCCUPIED BY FACULTY, STAFF OR STUDENTS. IF A PORTION OF THE BUILDING IS TO BECOME OCCUPIED DURING THE CONSTRUCTION PROCESS THE CONTRACTOR SHALL CLOSE OFF ALL INTAKES, OPENINGS, AND MECHANICAL VENTILATION SYSTEMS ADJACENT TO THE WORK AREA. THE ARCHITECT SHALL ASSIST THE CONTRACTOR IN DEVELOPING A PLAN TO PROVIDE ALTERNATE MEANS OF FRESH AIR TO ALL OCCUPIED SPACES.
- 9. "CONSTRUCTION AND MAINTENANCE OPERATIONS SHALL NOT PRODUCE NOISE IN EXCESS OF 60 DBA IN OCCUPIED SPACES OR SHALL BE SCHEDULED FOR TIMES WHEN THE BUILDING OR AFFECTED BUILDING SPACES ARE NOT OCCUPIED OR ACOUSTICAL ABATEMENT MEASURES SHALL BE TAKEN."
- 10. "THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF CHEMICAL FUMES, GASES, AND OTHER CONTAMINATES PRODUCED BY WELDING, GASOLINE OR DIESEL ENGINES, ROOFING, PAVING, PAINTING, ETC. TO ENSURE THEY DO NOT ENTER OCCUPIED PORTIONS OF THE BUILDING OR AIR INTAKES." ALL VENTS SHALL BE SEALED TO PREVENT CONTAMINANTS FROM THE CONSTRUCTION AREA FROM ENTERING THE OCCUPIED AREAS OF THE BUILDING.
- 11. "THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ACTIVITIES AND MATERIALS WHICH RESULT IN "OFF-GASSING" OF VOLATILE ORGANIC COMPOUNDS SUCH AS GLUES, PAINTS, FURNITURE, CARPETING, WALL COVERING, DRAPERY, ETC. ARE SCHEDULED, CURED OR VENTILATED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS BEFORE A SPACE CAN BE OCCUPIED."
- 12. "LARGE AND SMALL ASBESTOS ABATEMENT PROJECTS AS DEFINED BY 12NYCRR56 SHALL NOT BE PERFORMED WHILE THE BUILDING IS OCCUPIED." IT IS OUR INTERPRETATION THAT THE TERM "BUILDING", AS REFERENCED IN THIS SECTION, MEANS A WING OR MAJOR SECTION OF A BUILDING THAT CAN BE COMPLETELY ISOLATED FROM THE REST OF THE BUILDING WITH SEALED NON COMBUSTIBLE CONSTRUCTION. THE



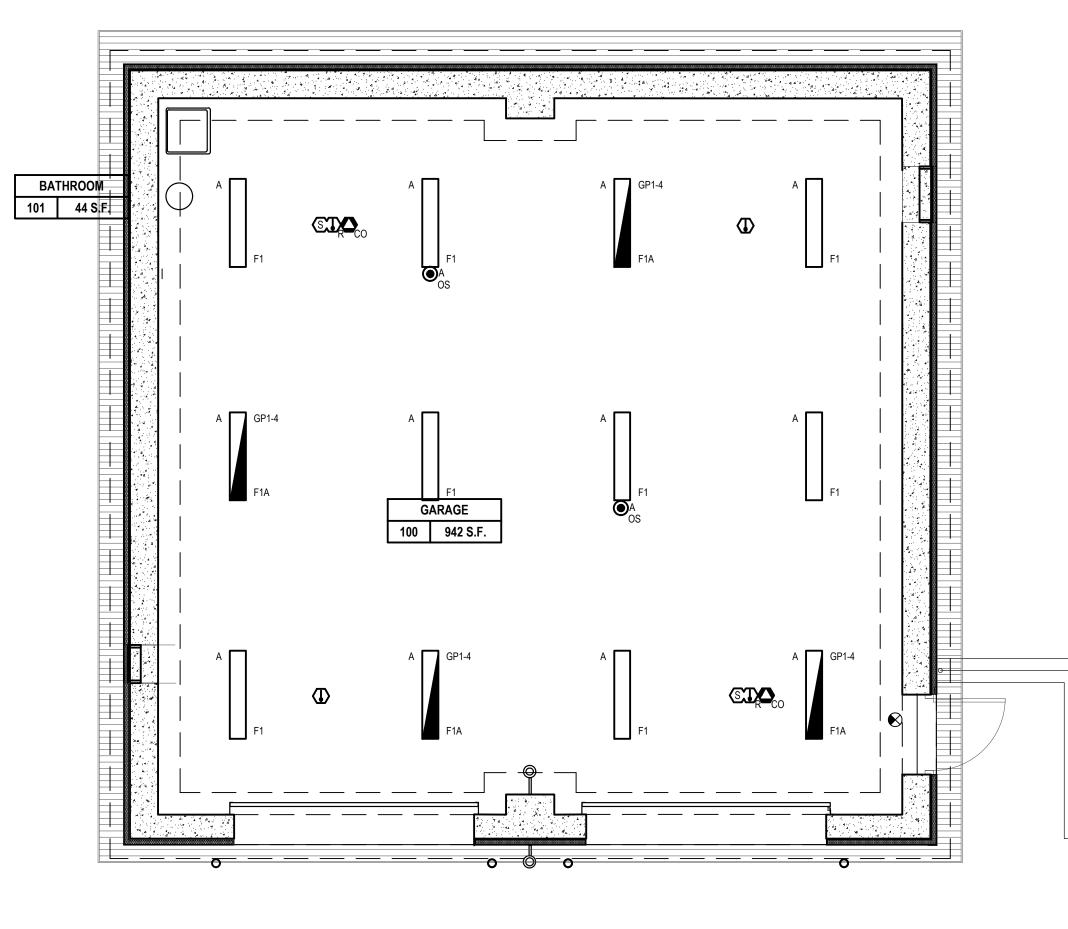




BUILDING ENVELOPE REQUIREMENTS								
WESTCHESTER COUNTY = 4 2020 Energy Conservation Code of NYS (Table C402.1.3								
REQUIRED	PROPOSED							
R-10 FOR 24" BELOW	R-10 TO TOP OF FOOTING (MIN. 36")							
R-30 CI	MIN R-30 CI							
R-13 + R-7.5 Cl	R-13 (BATT) + R-10 Cl							
R-9.5 Cl	R-10 CI							
R-7.5 Cl	R-7.5Cl							
R-4.75	R-8							
	2020 Er REQUIRED R-10 FOR 24" BELOW R-30 Cl R-13 + R-7.5 Cl R-9.5 Cl R-7.5 Cl							

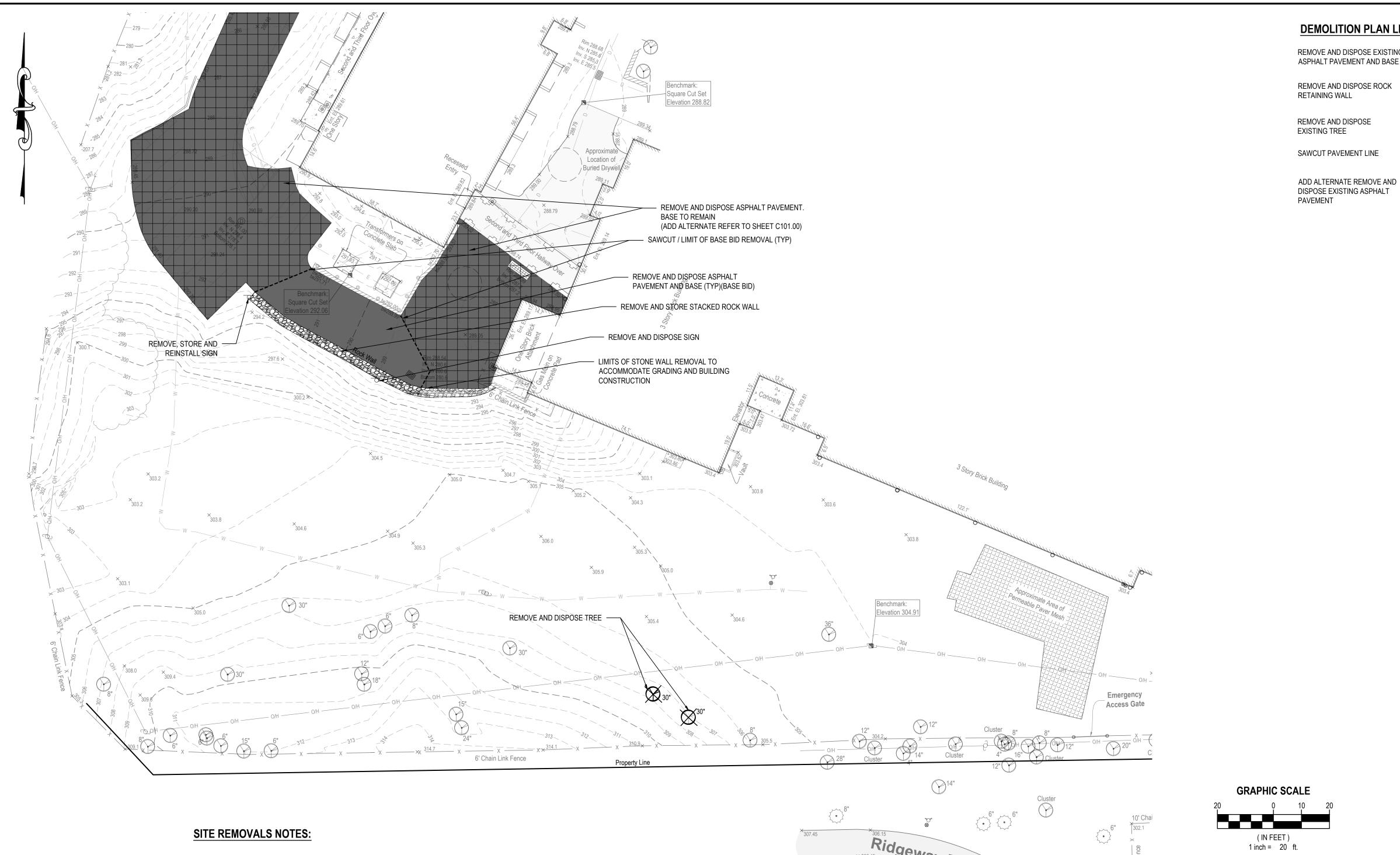
REFER TO COM CHECK FOR COMPLIANCE REPORT

FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEM				
	(NYS CODE TABLE 601)			architects
				+
BUILDING ELEMENT	HOURS			engineers
STRUCTURAL FRAME	0 0[2,3]			engineers
EXTERIOR BEARING WALLS EXTERIOR NON-BEARING WALLS	0[2,3]			
INTERIOR BEARING WALLS	0			
NON-BEARING WALLS	0[2]			- A
FLOOR CONSTRUCTION	0		Purchas	er Avenue, Suite 415 e, NY 10577
ROOF CONSTRUCTION	0		914.358.5623	• www.h2m.com
. VALUES LISTED REPRESENT MINIMUM GENERAL VALUES, AS REQUIRED B REFER TO PLANS AND SPECIFICATIONS FOR ADDITIONAL FIRE RATING INFO.				
2. AS PER NYS BUILDING CODE, TABLE 602 (TYPE IIB CONSTRUCTION, OCCU		CONSULTANTS:		
IRE SEPARATION DISTANCE).	FANCI GROUPS 0, WITH 20			
8. SEE DWG. A1.0 FOR WALL & PARTITION TYPE INFORMATION.	1			
ENERAL CALCULATIONS NOTES:				
		MARK	DATE	DESCRIPTION
PER NYS BUILDING CODE, TABLE 1004.1.2: 2020 Building Code of New York S	State (Table 1004.5)			
CLASSROOM OCCUPANCY CALCULATED AT 20 SF PER OCCUPANT				
LIBRARY OCCUPANCY CALCULATED AT 50 SF PER OCCUPANT STAGE/PLATFORM OCCUPANCY CALCULATED AT 15 SF PER OCCUPANT				
OFFICE OCCUPANCY CALCULATED AT 100 SF PER OCCUPANT STORAGE OCCUPANCY CALCULATED AT 300 SF PER OCCUPANT				
MECHANICAL EQUIPMENT OCCUPANCY CALCULATED AT 300 SF PER OCCU CAFETERIA OCCUPANCY CALCULATED AT 15 SF PER OCCUPANT	PANT			
GYM OCCUPANCY CALCULATED AT 50 SF PER OCCUPANT				
			02/09/2022	
			11/18/2021	FINAL BID DOCUMENT
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		DESIGNED BY: CWP	DRAWN BY: MKS	CHECKED BY: REVIEWED BY:
		PROJECT No.:	DATE:	SCALE:
		IRSD190		B 2022 AS SHOWN
				3 2022 AS SHOWN
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		IRSD190	ington	Union Free
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	NEW SIGNAGE BY	IRSD190	ington School	Union Free District
	NEW SIGNAGE BY SETON. MODEL# 21999 OR EQUAL	IRSD190	ington School	Union Free District
	SETON. MODEL# 21999 OR EQUAL	IRSD190	ington School	Union Free District
	SETON. MODEL#	IRSD190	rington School cilities Sto at Irvingto	Union Free District
FIRE EXTINGUISHER	SETON. MODEL# 21999 OR EQUAL PARTITION BEYOND.	IRSD190	rington School cilities Sto at Irvingto	Union Free District
FIRE EXTINGUISHER & SIGNAGE SHALL	SETON. MODEL# 21999 OR EQUAL PARTITION BEYOND. SEE PLAN WALL MOUNTED	IRSD190	rington School cilities Sto at Irvingto	Union Free District
FIRE EXTINGUISHER & SIGNAGE SHALL BE FURNISHED & INSTALLED IN ACCORDANCE WITH	SETON. MODEL# 21999 OR EQUAL PARTITION BEYOND. SEE PLAN WALL MOUNTED FIRE EXTINGUISHER ON MANUF.	IRSD190	rington School cilities Sta at Irvingto	Union Free District
FIRE EXTINGUISHER & SIGNAGE SHALL BE FURNISHED & INSTALLED IN	SETON. MODEL# 21999 OR EQUAL PARTITION BEYOND. SEE PLAN WALL MOUNTED FIRE EXTINGUISHER	IRSD190	rington School cilities Sta at Irvingto	Union Free District
FIRE EXTINGUISHER & SIGNAGE SHALL BE FURNISHED & INSTALLED IN ACCORDANCE WITH THE 2015 FIRE CODE	SETON. MODEL# 21999 OR EQUAL PARTITION BEYOND. SEE PLAN WALL MOUNTED FIRE EXTINGUISHER ON MANUF. HARDWARE	IRSD190	rington School cilities Sta at Irvingto	Union Free District
FIRE EXTINGUISHER & SIGNAGE SHALL BE FURNISHED & INSTALLED IN ACCORDANCE WITH THE 2015 FIRE CODE OF NYS	SETON. MODEL# 21999 OR EQUAL PARTITION BEYOND. SEE PLAN WALL MOUNTED FIRE EXTINGUISHER ON MANUF. HARDWARE	IRSD190	rington School School	Union Free District
FIRE EXTINGUISHER & SIGNAGE SHALL BE FURNISHED & INSTALLED IN ACCORDANCE WITH THE 2015 FIRE CODE OF NYS Elevation @ Wall Mtd. Fire Ex	SETON. MODEL# 21999 OR EQUAL PARTITION BEYOND. SEE PLAN WALL MOUNTED FIRE EXTINGUISHER ON MANUF. HARDWARE	IRSD190	rington School School	Union Free District
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FIRE EXTINGUISHER & SIGNAGE SHALL BE FURNISHED & INSTALLED IN ACCORDANCE WITH THE 2015 FIRE CODE OF NYS Elevation @ Wall Mtd. Fire Ex	SETON. MODEL# 21999 OR EQUAL PARTITION BEYOND. SEE PLAN WALL MOUNTED FIRE EXTINGUISHER ON MANUF. HARDWARE		reilities Storat Irvington 40 N. B Irvington umber:66	Union Free District
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FIRE EXTINGUISHER & SIGNAGE SHALL BE FURNISHED & INSTALLED IN ACCORDANCE WITH THE 2015 FIRE CODE OF NYS	SETON. MODEL# 21999 OR EQUAL PARTITION BEYOND. SEE PLAN WALL MOUNTED FIRE EXTINGUISHER ON MANUF. HARDWARE 0'-0" FIN. FLOOR Ktinguisher		reilities Storat Irvington 40 N. B Irvington umber:66	Union Free District
FIRE EXTINGUISHER & SIGNAGE SHALL BE FURNISHED & INSTALLED IN ACCORDANCE WITH THE 2015 FIRE CODE OF NYS	SETON. MODEL# 21999 OR EQUAL PARTITION BEYOND. SEE PLAN WALL MOUNTED FIRE EXTINGUISHER ON MANUF. HARDWARE	CLIENT Irv Fac SED N CONTRACT GE	ington School School cilities Sta at Irvington Irvington Umber:66 CONT ENERAL CA	Union Free District
FIRE EXTINGUISHER & SIGNAGE SHALL BE FURNISHED & INSTALLED IN ACCORDANCE WITH THE 2015 FIRE CODE OF NYS	SETON. MODEL# 21999 OR EQUAL PARTITION BEYOND. SEE PLAN WALL MOUNTED FIRE EXTINGUISHER ON MANUF. HARDWARE	CLIENT Irv Fac SED N CONTRACT GE	ington School School cilities Sta at Irvington Irvington Umber:66 CONT ENERAL CA	Union Free District
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FIRE EXTINGUISHER & SIGNAGE SHALL BE FURNISHED & INSTALLED IN ACCORDANCE WITH THE 2015 FIRE CODE OF NYS	SETON. MODEL# 21999 OR EQUAL PARTITION BEYOND. SEE PLAN WALL MOUNTED FIRE EXTINGUISHER ON MANUF. HARDWARE 0'-0" FIN. FLOOR tinguisher Sishes E USED IN SSEMBLY. ASSAGE OORS, 1'-6" OF	CLIENT Face Face SED NO CONTRACT GE STATUS FIN	ington School School cilities Sta at Irvington Irvington Umber:66 CONT ENERAL CONT	Union Free District
FIRE EXTINGUISHER & SIGNAGE SHALL BE FURNISHED & INSTALLED IN ACCORDANCE WITH THE 2015 FIRE CODE OF NYS	SETON. MODEL# 21999 OR EQUAL PARTITION BEYOND. SEE PLAN WALL MOUNTED FIRE EXTINGUISHER ON MANUF. HARDWARE 0'-0" FIN. FLOOR tinguisher SEMBLY. ASSAGE	CLIENT Face Face SED NO CONTRACT GE STATUS FIN	ington School School cilities Sta at Irvington Irvington Umber:66 CONT ENERAL CONT	Union Free District
FIRE EXTINGUISHER & SIGNAGE SHALL BE FURNISHED & INSTALLED IN ACCORDANCE WITH THE 2015 FIRE CODE OF NYS	SETON. MODEL# 21999 OR EQUAL PARTITION BEYOND. SEE PLAN WALL MOUNTED FIRE EXTINGUISHER ON MANUF. HARDWARE 0'-0" FIN. FLOOR tinguisher SEMBLY. ASSAGE	CLIENT Face Face SED NO CONTRACT GE STATUS FIN	ington School School cilities Sta at Irvington Irvington Umber:66 CONT ENERAL CONT	Union Free District
FIRE EXTINGUISHER & SIGNAGE SHALL BE FURNISHED & INSTALLED IN ACCORDANCE WITH THE 2015 FIRE CODE OF NYS	SETON. MODEL# 21999 OR EQUAL PARTITION BEYOND. SEE PLAN WALL MOUNTED FIRE EXTINGUISHER ON MANUF. HARDWARE 0'-0" FIN. FLOOR tinguisher SEMBLY. ASSAGE	CLIENT Face Face SED NO CONTRACT GE STATUS FIN	ington School School cilities Sta at Irvington Irvington Umber:66 CONT ENERAL CONT	Union Free District
FIRE EXTINGUISHER & SIGNAGE SHALL BE FURNISHED IN ACCORDANCE WITH THE 2015 FIRE CODE OF NYS	SETON. MODEL# 21999 OR EQUAL PARTITION BEYOND. SEE PLAN WALL MOUNTED FIRE EXTINGUISHER ON MANUF. HARDWARE 0'-0" FIN. FLOOR tinguisher SEMBLY. ASSAGE	CLIENT Face Face SED NO CONTRACT GE STATUS FIN	Image: static	Union Free District

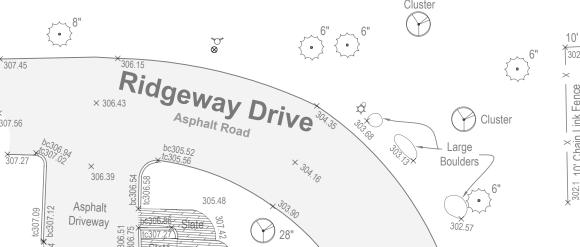




Η)	architects +				
	N		engineers				
	2700 Westche Purch 914.358.56	ase, NY	10577				
CONSULTANTS:							
MARK	DATE		DESCRIPTION				
	02/09/2022	EIN	AL REBID DOCUMENT				
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 DESIGNED BY: CWP	STINIK C	033063 DF NEV	NSED PROFESSIONAL IS ILLEGAL" KED BY: REVIEWED BY:				
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- 1. REPORT ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE PLANS TO THE ENGINEER IN WRITING IMMEDIATELY.
- 2. UNDERGROUND UTILITY INFORMATION SHOWN ON THESE PLANS WAS OBTAINED FOR DESIGN PURPOSES ONLY. PROVIDE FOR CONSTRUCTION MARKOUT AND LOCATE EXISTING UNDERGROUND UTILITIES. NO EXCAVATION CAN COMMENCE UNTIL UTILITY DOCUMENTATION HAS BEEN COMPLETED.
- 3. AFTER MARKOUT AND PRIOR TO DISTURBING THE SITE, UNCOVER ALL SUBSURFACE UTILITIES AND STRUCTURES WITHIN LIMITS OF DISTURBANCE TO CONFIRM THEIR LOCATION AND DEPTH.
- 4. NO COMPENSATION WILL BE MADE FOR ANY INCONVENIENCE CAUSED BY ENCOUNTERING UTILITIES AND STRUCTURES WHICH ARE NOT SHOWN, OR ARE INACCURATELY SHOWN ON THE PLANS.
- 5. REPAIR ANY DAMAGE TO EXISTING UTILITIES RESULTING FROM CONTRACTOR OPERATIONS IMMEDIATELY AT NO COST TO OWNER.
- 6. REPAIR ANY DAMAGE TO EXISTING SITE FEATURES SCHEDULED TO REMAIN RESULTING FROM CONTRACTOR OPERATIONS AT NO COST TO OWNER.
- 7. LOCATE ALL COMPONENTS OF ANY EXISTING IRRIGATION SYSTEMS PRIOR TO CONSTRUCTION AND PROTECT THROUGHOUT THE DURATION OF THE CONTRACT. REPAIR ALL DAMAGED COMPONENTS AT NO ADDITIONAL COST TO THE OWNER.
- 8. PROVIDE TEMPORARY FENCING TO PROTECT WORK AREAS.
- 9. INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE DIMENSIONAL SITE PLAN PLAN PRIOR TO ANY GROUND DISTURBANCE.
- 10. DELINEATE THE LIMITS OF CLEARING AND REVIEW WITH THE OWNER PRIOR TO COMMENCING WORK.
- 11. NOTIFY OWNER AND ENGINEER IMMEDIATELY IN WRITING WHEN UNKNOWN STRUCTURES OR SUSPECTED HAZARDOUS OR CONTAMINATED MATERIALS ARE ENCOUNTERED PRIOR TO REMOVAL OR DISTURBANCE.
- 12. TAKE APPROPRIATE MEASURES TO PROTECT PEDESTRIANS AND VEHICULAR TRAFFIC DURING REMOVAL ACTIVITIES, AND PROVIDE TEMPORARY MEASURES FOR THE PROTECTION AND SAFETY OF THE PUBLIC UNTIL FINAL ACCEPTANCE BY THE OWNER.
- 811 | 1-800-272-4480 Dig Safely. New York before you dig, www.digsafelynewyork.com
- 13. BACKFILL ALL VOIDS RESULTING FROM THE REMOVAL OF EXISTING SITE FEATURES. BACKFILL TO BE SOIL, FREE OF ORGANIC MATERIAL, DEBRIS, TRASH, CLAY AND STONES LARGER THAN 4 INCHES.



UTILITY NOTES:

SUBSURFACE UTILITY ENGINEERING (SUE) QUALITY LEVELS OF SERVICE (ACCURACY) ALL MARKOUT IS QUALITY LEVEL B UNLESS OTHERWISE NOTED.

QL-A = QUALITY LEVEL A (TEST HOLES)

DATA TYPICALLY ACQUIRED AT ONE POINT ON AN UNDERGROUND UTILITY FEATURE EXPOSED BY AIR VACUUM EXCAVATION OR OTHER MEANS. THE HORIZONTAL AND VERTICAL LOCATION OF THIS REFERENCE POINT IS ACQUIRED AND REPORTED TO ACCEPTABLE SURVEY TOLERANCES. THE ACQUIRED DATA FULFILLS SECTION 5.4.5 ON PAGE 6 OF ASCE STANDARD 38-02.

QL-B = QUALITY LEVEL B (UTILITY DESIGNATION)

DEPICTION OF AN UNDERGROUND UTILITY LINE ESTABLISHED BY SENSING THE LOCATION WITH ELECTRONIC INSTRUMENTATION. LINEWORK AND UTILITY SURFACE FEATURES ARE ACQUIRED BY SURVEYING POINTS ALONG ALIGNMENT TO ACCEPTABLE SURVEY TOLERANCES.

<u>QL-C = QUALITY LEVEL C (RECORDS PLOTTING)</u> UTILITY INFORMATION OBTAINED FROM RECORD INFORMATION AND PLOTTED TO CORRELATE WITH SURFACE UTILITY FEATURES WHICH HAVE BEEN SURVEY LOCATED AND ACCURATELY REDUCED ON TO DESIGN/CONSTRUCTION DOCUMENTS.

QL-D = QUALITY LEVEL D (RECORDS DRAFTING)

DEPICTION OF UNDERGROUND UTILITY LINES BY TRANSPOSITION FROM UTILITY RECORDS OR PLACED FROM VERBAL RECOLLECTIONS WITHOUT BENEFIT OF SURVEYED SURFACE FEATURES. ACCURACY OF INFORMATION IS QUESTIONABLE.

END OF INFORMATION PERTAINS TO THE LOSS OF SIGNAL THAT HAS BEEN APPLIED TO AN UNDERGROUND UTILITY AND THEN DETECTED TO ELECTRONICALLY LOCATE THE UTILITY. COMMONLY FOUND WHERE UTILITIES CHANGE TO NON-CONDUCTIVE MATERIALS, ARE CUT OR AT END OF UTILITY.

EXISTING CONDITIONS NOTES:

- 1. EXISTING SURVEY PREPARED BY H2M architects + engineers. DATED 10/22/2019 AND MOST RECENTLY REVISED 07/09/2020.
- 2. ELEVATIONS REFER TO N.A.V.D. 1988.
- THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF A COMPLETE TITLE REPORT.
- 4. THE OFFSETS AND DIMENSIONS SHOWN FROM STRUCTURES TO THE PROPERTY LINE ARE FOR A SPECIFIC PURPOSE AND ARE NOT INTENDED TO GUIDE THE ERECTION OF FENCES WALLS POOLS PATIOS ADDITIONS TO BUILDINGS AND ANY OTHER CONSTRUCTION.
- 5. THE LOCATIONS OF UNDERGROUND STRUCTURES AND UTILITIES SHOWN HEREON ARE BASED ON ABOVEGROUND FEATURES AND/OR RECORD DRAWINGS AND MARKOUT PROVIDED BY SINGER UTILITY ENGINEERING, P.C. ON SEPTEMBER, 2019. LOCATIONS OF UNDERGROUND STRUCTURES AND UTILITIES MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL BURIED STRUCTURES AND UTILITIES MAY BE ENCOUNTERED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION.

DEMOLITION PLAN LEGEND

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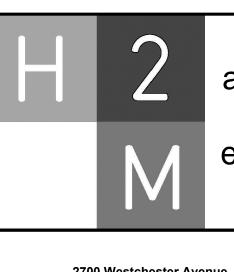
tc 100.50

bc 100.00

EXISTING CONDITIONS LEGEND

MONUMENT

BENCHMARK
DRAINAGE MANHOLE
CURB INLET
CATCH BASIN
INLET
INLET
HYDRANT
WATER METER
WATER VALVE
SANITARY MANHOLE
CLEAN OUT/VENT PIPE
TELEPHONE MANHOLE
ELECTRIC MANHOLE
ELECTRIC RISER
UTILITY POLE/GUY POLE
GUY WIRE
GAS VALVE
SIGN
BOLLARD
FLAG POLE
EVERGREEN TREE
DECIDUOUS TREE
DOOR
CURB
DROP CURB
STORM DRAIN
ROOF LEADER
WATER MAIN
WATER SERVICE
BLOW OFF LINE
CAUSTIC SODA LINE
SAMPLING LINE
SANITARY SEWER
HOUSE CONNECTION
UNDERGROUND GAS
UNDERGROUND ELECTRIC
UNDERGROUND TELEPHONE
OVERHEAD WIRES
FENCE
CONTOUR
SPOT ELEVATION
TOP/BOT CURB GRADE
ASPHALT PAVEMENT
ROCK WALL
PERMEABLE PAVER MESH
CONCRETE PAVEMENT
EXISTING TREELINE



architects engineers

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MARK	DATE	DESCRIPTION
	02/09/2022	FINAL REBID DOCUMENT
1	11/18/2021	FINAL BID DOCUMENT



Irvington Union Free School District

Facilities Storage Building at Irvington Campus



GENERAL CONSTRUCTION

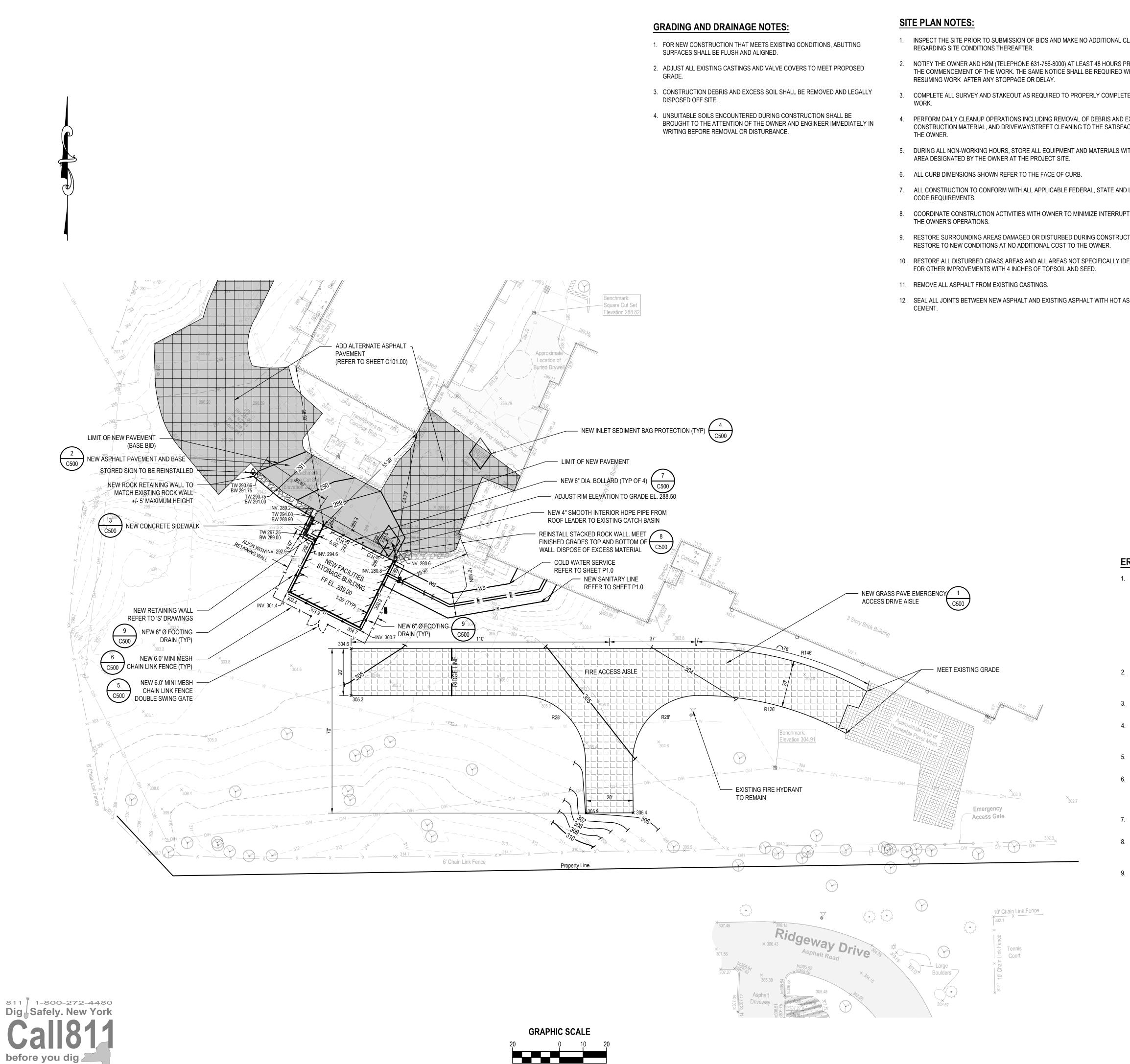
FINAL REBID DOCUMENT

SHEET TITLE

CONTRAC

EXISTING CONDITIONS AND DEMOLITION SITE PLAN

CD100.00



(IN FEET) 1 inch = 20 ft.

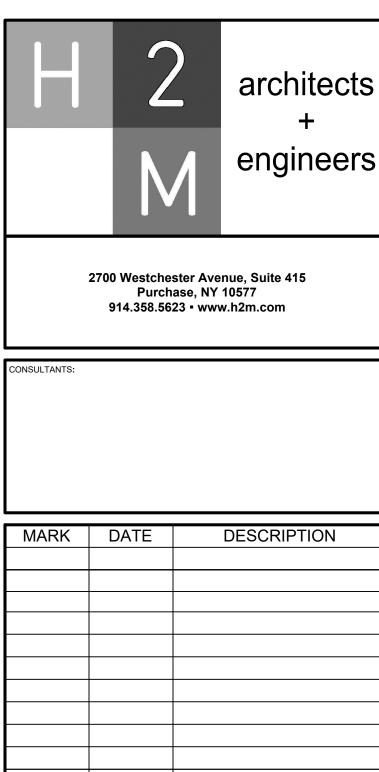


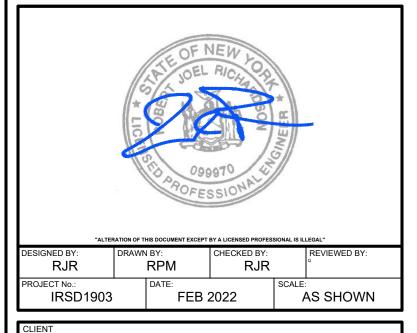
- 2. NOTIFY THE OWNER AND H2M (TELEPHONE 631-756-8000) AT LEAST 48 HOURS PF THE COMMENCEMENT OF THE WORK. THE SAME NOTICE SHALL BE REQUIRED W
- 3. COMPLETE ALL SURVEY AND STAKEOUT AS REQUIRED TO PROPERLY COMPLETE
- 4. PERFORM DAILY CLEANUP OPERATIONS INCLUDING REMOVAL OF DEBRIS AND E CONSTRUCTION MATERIAL, AND DRIVEWAY/STREET CLEANING TO THE SATISFAC

- 7. ALL CONSTRUCTION TO CONFORM WITH ALL APPLICABLE FEDERAL, STATE AND
- 8. COORDINATE CONSTRUCTION ACTIVITIES WITH OWNER TO MINIMIZE INTERRUPT
- 9. RESTORE SURROUNDING AREAS DAMAGED OR DISTURBED DURING CONSTRUCT

- 12. SEAL ALL JOINTS BETWEEN NEW ASPHALT AND EXISTING ASPHALT WITH HOT AS

	LEGEND	
CLAIMS	DESCRIPTION	SYMBOL
Prior to When	BASE CONTRACT ASPHALT PAVEMENT	
TE THE	CONCRETE PAVEMENT SIDEWALK	
EXCESS ACTION OF	ADD ALTERNATE ASPHALT PAVEMENT	
/ITHIN AN	ROCK RETAINING WALL	
	DOOR	\Box
DLOCAL	OVERHEAD DOOR	<u> </u>
PTION TO	SPOT ELEVATION TOP AND BOTTOM CURB	+121.50
CTION.	ELEVATION MAJOR CONTOUR	TC140.00 BC139.50 240
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	RIDGE LINE	
ASPHALT	SANITARY LINE	S S S D D D E E E WS WS





02/09/2022

11/18/2021

FINAL REBID DOCUMENT

FINAL BID DOCUMENT

Irvington Union Free School District

Facilities Storage Building at Irvington Campus



Irvington Campus 40 N. Broadway Irvington, NY 10533

SED Number:66-04-02-02-2-022-001

CONTRACT G GENERAL CONSTRUCTION

FINAL REBID DOCUMENT

SHEET TITLE

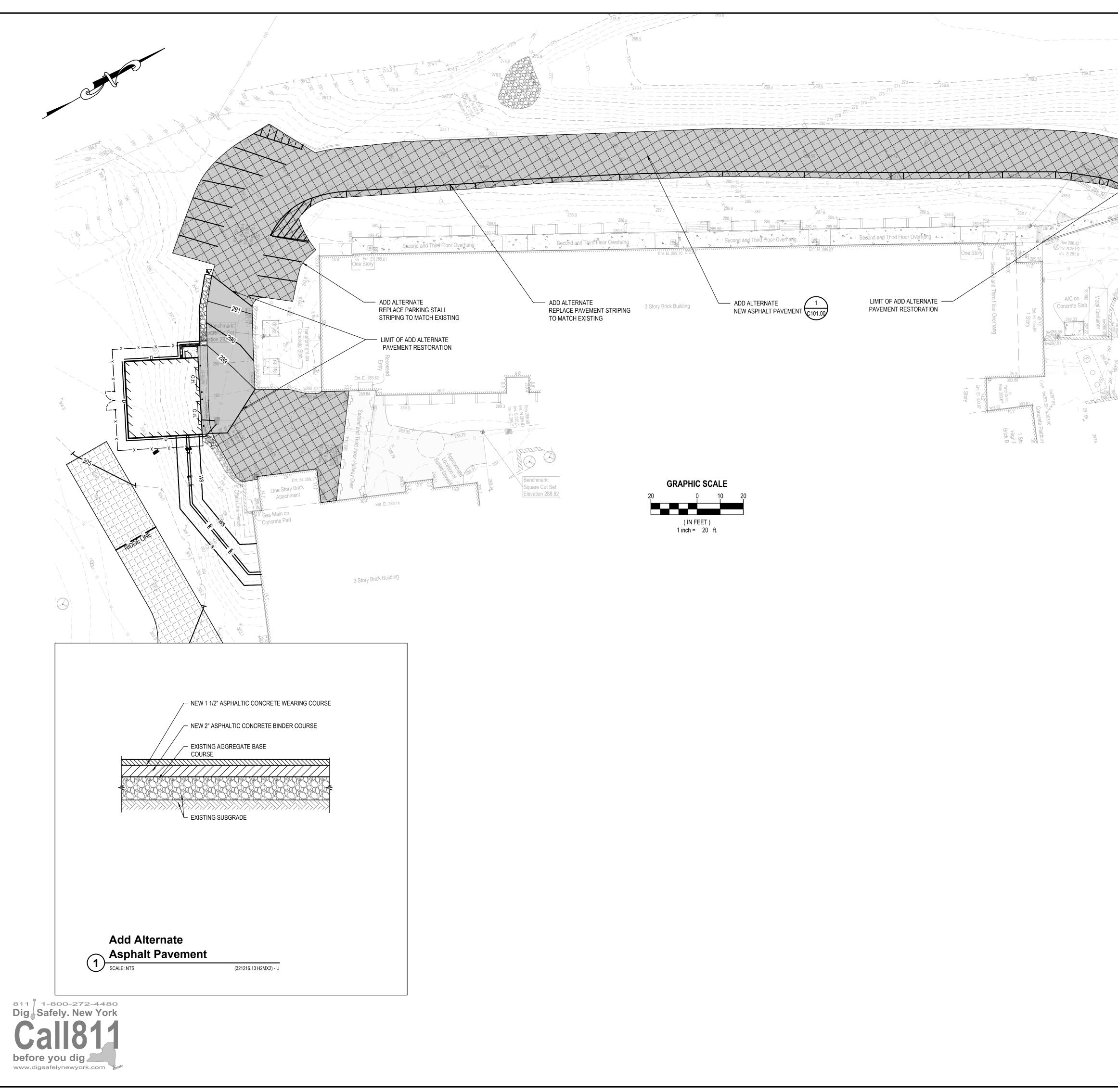
CONTRACT

SITE IMPROVEMENT PLAN

C100.00

EROSION CONTROL NOTES:

- 1. DURING THE COURSE OF CONSTRUCTION, EROSION AND SEDIMENT CONTROL MEASURES ARE NECESSARY TO PREVENT THE TRANSPORT OF SEDIMENT TO UNDISTURBED AREAS, PONDS, WATER COURSES, DRAINAGE SYSTEMS, RECHARGE BASINS, AND ROADS. THE MINIMUM EROSION CONTROL MEASURES REQUIRED ARE INDICATED ON THIS PLAN. IN ADDITION, THE FOLLOWING GENERAL CONDITIONS SHALL BE OBSERVED:
 - a. EXISTING VEGETATION SCHEDULED TO REMAIN SHALL BE PROTECTED AND REMAIN UNDISTURBED.
 - b. INSTALL ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AS REQUIRED TO PREVENT THE INCIDENTAL DISCHARGE OF SEDIMENT FROM THE SITE.
- 2. SPECIFIC METHODS AND MATERIALS EMPLOYED IN THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL MEASURES MUST CONFORM TO THE LATEST EDITION OF THE "NEW YORK STATE STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL". 3. INSTALL PROPRIETARY EROSION AND SEDIMENT CONTROL PRODUCTS IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
- 4. ADJUST EROSION AND SEDIMENT CONTROL MEASURES TO ACCOMMODATE CONSTRUCTION PHASING TO MAINTAIN EFFECTIVENESS OF EROSION AND SEDIMENT CONTROL MEASURES.
- 5. PROTECT EXISTING DRAINAGE INLETS WITHIN THE PROJECT LIMITS AND NEW DRAINAGE INLETS INSTALLED AS PART OF THIS PROJECT FROM SEDIMENT INTRUSION.
- 6. PERFORM INSPECTION AND MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES ON A WEEKLY BASIS AND AFTER HEAVY OR PROLONGED STORMS. MAINTENANCE MEASURES INCLUDE, BUT ARE NOT LIMITED TO, CLEANING AND REPAIR OF ALL EROSION AND SEDIMENT CONTROL MEASURES.
- 7. UTILIZE APPROPRIATE MEANS TO CONTROL DUST DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO APPLYING WATER TO BARE SOIL SURFACES.
- 8. MAINTAIN THE STABILIZED CONSTRUCTION ENTRANCE TO PREVENT SOIL AND LOOSE DEBRIS FROM BEING TRACKED ONTO LOCAL ROADS. MAINTAIN THE CONSTRUCTION ENTRANCE WEEKLY UNTIL THE SITE IS PERMANENTLY STABILIZED.
- 9. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED. AFTER PERMANENT STABILIZATION, REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AND ALL ACCUMULATED SEDIMENT AND DEBRIS FROM THE SITE AND DRAINAGE STRUCTURES.



Inv. E 280.5 Inv. W 280.2

LEGEND

DESCRIPTION

BASE CONTRACT ASPHALT PAVEMENT

CONCRETE PAVEMENT SIDEWALK

ADD ALTERNATE ASPHALT PAVEMENT

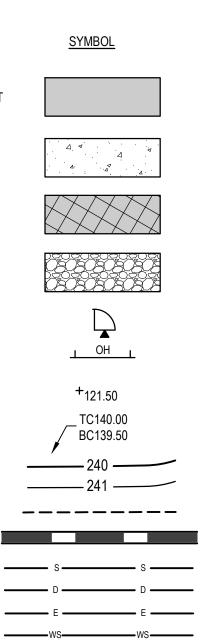
ROCK RETAINING WALL

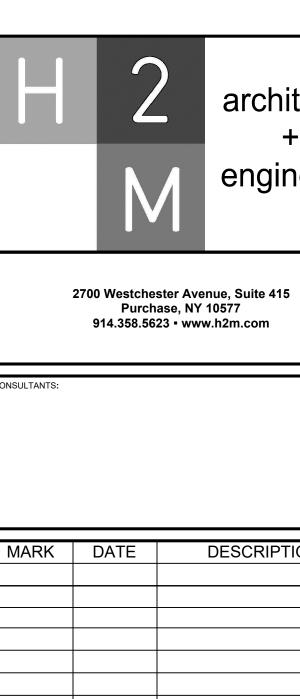
DOOR

OVERHEAD DOOR

SPOT ELEVATION TOP AND BOTTOM CURB ELEVATION MAJOR CONTOUR MINOR CONTOUR **RIDGE LINE** RETAINING WALL SANITARY LINE DRAINAGE LINE ELECTRIC LINE

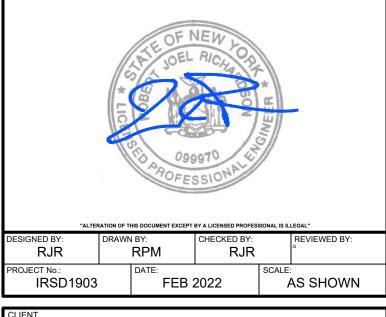
WATER SERVICE LINE





architects engineers

MARK	DATE	DESCRIPTION
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1	11/18/2021	FINAL BID DOCUMENT



Irvington Union Free School District

Facilities Storage Building at Irvington Campus



SED Number:66-04-02-02-2-022-001

CONTRACT G GENERAL CONSTRUCTION

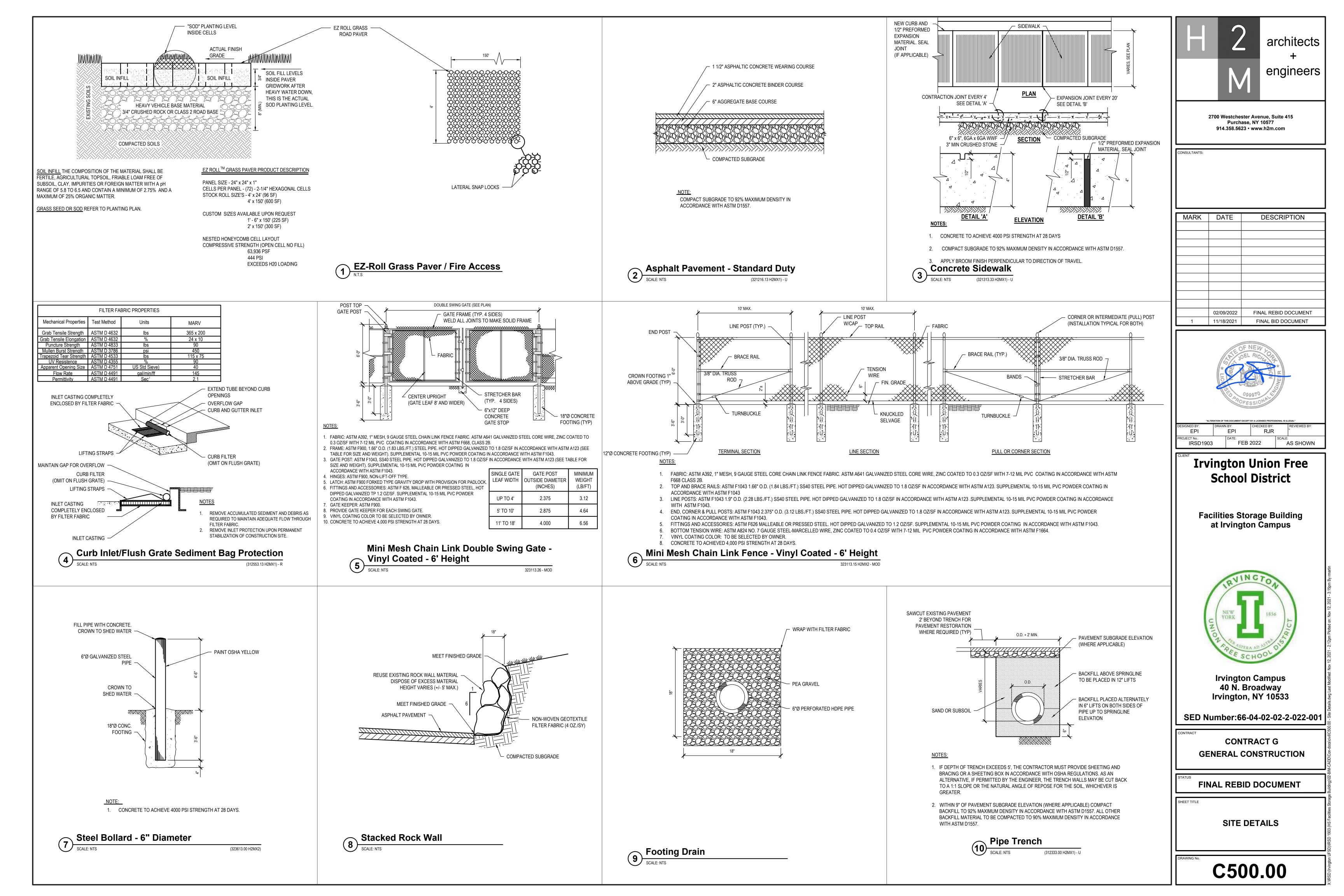
FINAL REBID DOCUMENT

SHEET TITLE

CONTRAC

ADD ALTERNATE PAVEMENT **RESTORATION PLAN**

C101.00



<u>.</u>	NERAL NOTES: SPECIFICATIONS ARE DRAWINGS.	PART OF THE CONSTRU	ICTION DOC	UME	NTS AND	MUST E	E USED	IN CO	NJUNCTION	WITH THE	EXC/ 1. 2.
<u>.</u>	THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BY MEASUREMENTS AT THE JOB SITE AND SHALL TAKE ANY AND ALL OTHER MEASUREMENTS NECESSARY TO VERIFY THE DRAWINGS AND TO PERFORM THE WORK PROPERLY. ANY DISCREPANCY BETWEEN THE DRAWINGS AND THE MEASURED DIMENSIONS OF THE EXISTING SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. NO WORK SHALL PROCEED UNTIL SUCH DISCREPANCY HAS BEEN RECTIFIED INCLUDING BUT NOT LIMITED TO FABRICATION OF MATERIALS. SUCH DISCREPANCIES BETWEEN THE DRAWINGS AND THE MEASURED DIMENSIONS SHALL NOT BE THE REASONS FOR ANY EXTRA COST OR DELAY IN THE EXECUTION OF THE WORK AND THE WORK SHALL BE PERFORMED AT NO EXTRA COST TO THE OWNER.								3. 4. 5. 6. 7. 8. 9.		
	ALL CONTRACTORS ARE REQUIRED TO VISIT THE SITE AND FULLY INFORM THEMSELVES AS TO THE EXISTING CONDITIONS AND LIMITATIONS PRIOR TO SUBMITTING THEIR PROPOSAL/BID. FAILURE TO VISIT THE SITE AND NOT FAMILIARIZING THEMSELVES WITH THE CONDITIONS AND LIMITATIONS WILL IN NO WAY RELIEVE THE SUCCESSFUL BIDDER FROM FURNISHING ANY MATERIALS OR PERFORMING ANY WORK THAT MAY BE REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS AT NO ADDITIONAL COST TO THE OWNER.								10. 11. BAC		
ŀ.	THE CONTRACT STRUCTURAL DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR ALONE IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND SAFETY OF STRUCTURE AND WORKMEN DURING THE ENTIRE CONSTRUCTION PERIOD, WHICH SHALL INCLUDE BUT NOT BE LIMITED TO DESIGN AND INSTALLATION OF BRACING, SHORING FOR CONSTRUCTION EQUIPMENT, SHORING FOR THE BUILDING, FORMS AND SCAFFOLDING, SHORING OF RETAINING WALLS AND OTHER TEMPORARY SUPPORTS AS REQUIRED. ANY DAMAGE TO THE STRUCTURE IF OCCURRED SHALL BE RECTIFIED TO THE ENTIRE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL SCHEDULE THE WORK IN CONSULTATION WITH THE OWNER AND IN SUCH A WAY AS TO MINIMIZE THE CONFLICT OF THE OPERATION OF THE BUILDING. COMPLY WITH APPLICABLE REQUIREMENTS OF OSHA AND OTHER GOVERNING BODIES HAVING JURISDICTION AT THE SITE.									1.	
j.		AMAGE TO THE CONST E OWNER AT NO ADDITIO					HALL F	REPAIF	R THE SAM	e to the	2. 3.
j.	INTERFERENCES NOT	Shall inform the I shown on the dem days for resolution igineer.	OLITION DF	RAWIN	IGS FOR	RESOL	UTION.	THE	CONTRACT	OR SHALL	4. 5. 6. 7.
	SIMILAR TO THOSE	DRAWINGS APPLY TO S SPECIFICALLY DETAIL CH LOCATION. NOTIFY	ED. SUC	H DE	TAILS A	PPLY \	NHETHE	ER OR	NOT DET	AILS ARE	8. 9.
5.		NISHED SLAB ON GRADE FERIALS ON DECKS/SL									10.
	VERIFY THE LOCATIC OPENINGS.	ON OF CHASES, INSERTS	6, opening	S, SL	eeves, f	INISHE	s, depr	ESSIO	NS, PADS, <i>I</i>	AND WALL	
0.	ARCHITECTURAL AND OPENINGS WHETHER OPENINGS WITH TH	S THROUGH THE FRAMIN MECHANICAL DRAWING SHOWN ON THE STR E MECHANICAL CONT INGS MUST BE APPRO	GS FOR THE RUCTURAL RACTOR.	E ALL DRAV DEVI	REQUIRE VINGS OI ATIONS	d open r Not. From	IINGS A VERIF THE O	nd Pr Y size Penin	ovide for E and loc Gs shown	Required Ation of On the	<u>FOU</u> 1. 2.
1.	LOADINGS FOR MECH ANY CHANGES IN TY	HANICAL EQUIPMENT AF PE, SIZE OR NUMBER O OF THE ADEQUACY OI	F PIECES O	F EQ	UIPMENT	SHALL	BE REF	PORTE	d to the a	RCHITECT	3.
2.	DEPRESSIONS AND H	L DRAWINGS FOR ELEV HOUSEKEEPING PADS. AL SECTIONS AND REPO	THE CONTR	RACTO	OR SHALL		PARE TH	HE ST	RUCTURAL	SECTIONS	4. 5.
DES	SIGN CRITERIA:										6.
	DESIGN LOADS ARE IN DEAD LOADS	I ACCORDANCE WITH 20	16 BC-NYS	IN CO	NJUNCTIC	ON WITH	ASCE	7-16 Al	ND IBC 2018		7.
) I	ROOF TOTAL DEAL	D LOAD:		2	5 PSF						8.
	FIRST FLOOR LIVE ROOF LIVE LOAD:	LOAD:			25 PSF 0 PSF						
8. S	NOW LOADS GROUND SNOW LO	DAD:	Pg	= 3	0 PSF						1.
	EXPOSURE FACTO		Ce Is	= 1 = 1							
	THERMAL FACTOR FLAT ROOF SNOW	LOAD:	Ct Pf		5.4 PSF						2.
I. W	/IND LOADS	OW LOAD W/O DRIFT:			0 PSF (NO	N-RED	JCIBLE)				3.
	BASIC WIND SPEEI EXPOSURE: EXPOSURE ADJUS INTERNAL PRESSU "a" END ZONE WID	TMENT FACTOR: JRE COEFFICIENT:		B 1. G	24 MPH .00 .cp = ±0.18 .2 FT	B (ENC	LOSED I	BUILDI	NG)		4. 5. 6.
	NET UPLIFT:			2	9.1 PSF XPOSURE	:			ASD		CON
			EXPOSURE WIND LOAD	BAD	JUSTMEN	IT IMP	ORTAN		ESIGN WIND LOADS		<u></u> 1.
	MWFRS WALL (EN MWFRS WALL (INT	•	28.8 PSF 19.1 PSF	x x	1.0 1.0	x x	1.0 1.0	= =	28.8 PSF 19.1 PSF		2.
	MWFRS ROOF —		10.9 PSF 25.4 PSF	x x	1.0 1.0	x x	1.0 1.0	=	10.9 PSF 25.4 PSF		3.
		WALLS (END ZONE)	-32.5PSF	х	1.0	х	1.0	=	-32.5 PSF		4. 5
		WALLS (INT. ZONE)	25.4 PSF -27.6PSF	x x	1.0 1.0	x x	1.0 1.0	= =	25.4 PSF -27.6 PSF		5.
	COMPONENT & CLADDING	ROOF (END ZONE)	10.1 PSF -40.0 PSF	x x	1.0 1.0	x x	1.0 1.0	= =	10.1 PSF -40.0 PSF		
			10.1 PSF	х	1.0	х	1.0	=	10.1 PSF		
			-25.9 PSF 10.1 PSF	x x	1.0 1.0	x x	1.0 1.0	= =	-25.9 PSF 10.1 PSF		6.
		(CORNER ZONE)	-61.1 PSF	х	1.0	х	1.0	=	-61.1 PSF		o. 7.
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	DESIGN SUBMISSIO	" WHEN CALCULATIONS ON. SUBMITTAL SHALL I WIND LOAD CALCULATI	NCLUDE EF	FECT	IVE AREA	ASSU	NPTIONS	S FOR		FINAL	9.

5. SEISMIC CRITERIA:

OCCUPANCY CATEGORY: III SITE CLASS: D IMPORTANCE FACTOR le = 1.25 Ss = 0.273 S1 = 0.072 Fa = 1.42 Fv = 2.4 Sms = 0.387 Sm1 = 0.173 Sds = 0.258 Sd1 = 0.115 SEISMIC DESIGN CATEGORY: B

EQUIVALENT LATERAL FORCE ANALYSIS PROCEDURE

SEISMIC LATERAL FORCE RESISTING SYSTEM:

ORDINARY REINFORCED CONCRETE SHEAR WALLS

 $R = 4.0 \quad \Omega = 2.5 \quad Cd = 4.0$

SEISMIC RESPONSE COEFFICIENT CS = 0.0807

TOTAL BASE SHEAR = 16.4 KIPS (ULTIMATE)

CAVATION NOTES:

- PROTECT ABOVE AND BELOW GRADE UTILITIES WHICH ARE TO REMAIN. PROTECT PLANT LIFE, LAWNS AND OTHER FEATURES REMAINING AS A PO
- PROTECT BENCH MARKS, EXISTING STRUCTURES, FENCES, SIDEWA EXCAVATION EQUIPMENT AND VEHICULAR TRAFFIC. GRADE TOP PERIMETER OF EXCAVATION TO PREVENT SURFACE WATER FR
- HAND TRIM EXCAVATION. REMOVE LOOSE MATTER.
- REMOVE LUMPED SUB-SOIL, BOULDERS AND ROCK.
- NOTIFY ENGINEER OF UNEXPECTED SUBSURFACE CONDITIONS AND DISC UNTIL NOTIFIED TO RESUME WORK.
- CORRECT UNAUTHORIZED EXCAVATION AT NO EXTRA COST TO OWNER IN NOTES.
- STOCKPILE EXCAVATED MATERIAL IN AREA DESIGNATED ON SITE AND BEING REUSED FROM SITE. PROTECT EXCAVATIONS BY METHODS REQUIRED TO PREVENT CAVE-IN O
- EXCAVATION. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING STRUCTURES AND CONTRACTOR SHALL ENSURE ALL SURROUNDING STRUCTURES ARE PR ALL EXCAVATION.

CKFILLING NOTES:

TYPE C SAND: NATURAL RIVER OR BANK SAND, WASHED, FREE OF SOLUBLE MATERIALS, OR ORGANIC MATTER, GRADED IN ACCORDANCE FOLLOWING LIMITS:

INVING LINITS:	
SIEVE SIZE :	PERCENT PASSING
NO. 4	100
NO.14	10-100
NO. 50	5-90
NO.100	4-30
NO. 200	0-1

VERIFY EXISTING CONDITIONS AND SUBSTRATE.

- VERIFY FILL MATERIALS TO BE REUSED ARE ACCEPTABLE. COMPACT SUBGRADE TO 95 PERCENT MAXIMUM DRY DENSITY IN ACCORDA
- CUT OUT SOFT AREAS OF SUBGRADE NOT CAPABLE OF IN-SITU COMPACT AND COMPACT TO DENSITY EQUAL TO OR GREATER THAN REQUIREMENT MATERIAL.
- BACKFILL AREAS TO CONTOURS AND ELEVATIONS WITH UNFROZEN MATER SYSTEMATICALLY BACKFILL TO ALLOW MAXIMUM TIME FOR NATURAL OVER POROUS, WET, FROZEN OR SPONGY MATERIALS.
- PLACE AND COMPACT MATERIALS IN CONTINUOUS LAYERS NOT EXC DENSITY.
- ALL BACKFILL MATERIALS SHALL BE COMPACTED TO 95 PERCENT MAXIMU WITH ANSI/ASTM D1557. MAINTAIN OPTIMUM MOISTURE CONTENT TO ATTA AT COMPLETIONS OF WALL CONSTRUCTIONS, BACKFILL SHALL BE PLA WALL ELEVATION. IF FINAL GRADING, PAVING, LANDSCAPING AND/OR ADJACENT TO THE WALL IS NOT PLACED IMMEDIATELY AFTER WALL COM AND DRAINAGE SHALL BE PROVIDED TO ENSURE WATER RUNOFF IS ALLOWED TO COLLECT OR POND BEHIND THE WALL UNTIL FINAL CONSTR

IS COMPLETED. UNDATION NOTES:

- FOUNDATION DESIGN IS BASED UPON THE GEOTECHNICAL ENGINEERIN WHITESTONE ASSOCIATES, INC. COORDINATE STRUCTURAL PLANS AND GEOTECHNICAL REPORT AND ADDENDUM. FOOTING DESIGN IS BASED O PRESSURE.
- REFER TO THE GEOTECHNICAL REPORT AND SPECIFICATIONS FOR EARTHWORK, OVER EXCAVATION, SUBGRADE PREPARATION, FILL AND AND OTHER PERTINENT REQUIREMENTS AND INFORMATION. IF TH GEOTECHNICAL REPORT AND STRUCTURAL PLANS OR SPECIFICATION CRITERIA SHALL APPLY UNLESS OTHERWISE DIRECTED BY AN RFI.
- PROTECT PIPES AND CONDUITS RUNNING THROUGH WALLS AND SLABS MATERIAL. LOWER CONTINUOUS FOOTINGS AND GRADE BEAMS PERPEN PIPES TO PASS ABOVE THE FOOTINGS. LOWER FOOTINGS AND GRADE BI AVOID SURCHARGE ONTO ADJACENT TRENCH EXCAVATIONS.
- MAINTAIN SPECIFIED SUBGRADE AND FILL MOISTURE CONTENT UNTIL FOU ARRANGE FOR OWNER'S INDEPENDENT TESTING AGENCY TO MONITOR PERFORM FIELD DENSITY AND MOISTURE CONTENT TESTS TO VERIFY COI SUBGRADES PRIOR TO PLACING CONCRETE.
- DO NOT PLACE FOOTINGS OR SLABS AGAINST SUBGRADE CONTAINING F MAINTAIN PROPER SITE DRAINAGE DURING CONSTRUCTION TO ENSUR
- STRUCTURES AND TO PREVENT PONDING OF SURFACE RUNOFF NEAR THE ARRANGE FOR OWNER'S INDEPENDENT TESTING AGENCY TO MONITOR PERFORM FIELD DENSITY AND MOISTURE CONTENT TESTS TO VERIFY COM SUBGRADES PRIOR TO PLACING CONCRETE.

NCRETE NOTES:

- PROVIDE BATCH MIXING, TRANSPORTATION, PLACING AND CURING OF (RECOMMENDATIONS OF ACI 301 AND ACI 318. USE TYPE I PORTLAND CEM PROVIDE ADMIXTURES AND SPECIAL REQUIREMENTS AS SPECIFIED. A. ALL CONCRETE SHALL BE NORMAL WEIGHT (145 PCF) CONCRETE fc
- = 4000 PSI AT 28 DAYS. PROVIDE CONCRETE MIXES DESIGNED BY A QUALIFIED TESTING
- APPROVAL BY THE STRUCTURAL ENGINEER. PROVIDE CONSTRUCTION AND CONTROL JOINTS AS REQUIRED BY A.C
- DRAWINGS. HORIZONTAL CONSTRUCTION JOINTS ARE NOT ALLOWED APPROVED BY STRUCTURAL ENGINEER. SUBMIT PLAN TO ENGINEER INDIC EXPANSION JOINT LOCATIONS IN CONCRETE SLABS FOR REVIEW AND API
- CHAMFER EXPOSED CONCRETE EDGES 3/4 INCH UNLESS NOTED OTHERWI WIRE BRUSH AND CLEAN CONSTRUCTION JOINTS PRIOR TO POURING NEW
- PROVIDE ADEQUATE STRUCTURAL FRAMING AS APPROVED BY STRUCTURE

OPENINGS THROUGH THE SLABS, WALLS AND FLOOR DECK. NCRETE REINFORCING NOTES:

PROVIDE DETAILING, FABRICATION, AND INSTALLATION OF REINFO

- ACCORDANCE WITH ACI 315 AND ACI 318.
- PROVIDE NEW BILLET STEEL REINFORCING BARS IN ACCORDANCE WITH A COORDINATE PLACEMENT OF CAST-IN-PLACE EMBEDMENTS AND ANCHOR
- A TEMPLATE. SECURELY ATTACH EMBEDDED ITEMS TO FORMWORK OR R
- 90-DEGREE HOOKS IN ACCORDANCE WITH ACI 318, UNLESS NOTED OTHER MAINTAIN THE FOLLOWING CONCRETE COVERAGE FOR REINFORCING STE
- A. CONCRETE CAST AGAINST EARTH: 3 INCHES
- B. CONCRETE EXPOSED TO WEATHER
- NO. 6 AND LARGER: 2 INCHES NO. 5 AND SMALLER: 1 1/2 INCHES
- C. CONCRETE NOT EXPOSED TO WEATHER OR CONCRETE NOT IN CONTAC SLABS AND WALLS
- NO. 11 AND SMALLER: 3/4 INCHES

DO NOT WELD OR BEND REINFORCEMENT IN THE FIELD UNLESS SPECIFIC

- STRUCTURAL ENGINEER. WHEN SPECIFICALLY APPROVED, PROVIDE WELDED REINFORCEMENT IN GRADE 60. USE LOW HYDROGEN ELECTRODES FOR WELDING OF REINFOR "RECOMMENDED PRACTICES FOR WELDING REINFORCING STEEL", AMI D12.1. PROVIDE ASTM GRADE 40 REINFORCING BARS WHERE DETAILED STEEL SECTION.
- WHERE REQUIRED, PROVIDE DOWELS TO MATCH SIZE AND SPACING OF MA PROVIDE CONTINUOUS HORIZONTAL WALL REINFORCEMENT WITH 90-DEC CORNERS AND INTERSECTIONS AS SHOWN ON TYPICAL BAR PLACING DE

ATTACHMENT AS INDICATED ON PLANS.

8. AT PERIMETER OF DECK, SECURE DECK TO STRUCTURAL MEMBERS WITH SAME ATTACHMENT AND SPACING SUPPORT

PROVIDE CLASS "B" REINFORCEMENT SPLICES FOR CONTINUOUS REINF

	ST	RUCTURAL STEEL NOTES:	CO	LD FORMED STEEL NOTES:		
N. PORTION OF FINAL LANDSCAPING.	1.	DETAIL AND ERECT STRUCTURAL STEEL ELEMENTS IN ACCORDANCE WITH THE FOLLOWING:	1.	PROVIDE ALL STUDS AND/OR JOISTS AND ACCESS	ORIES OF THE TYPE, SIZE, GAGE	AND SPACING SHOWN ON THE DRA
WALKS, PAVING AND CURBS FROM		 A. AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS. B. AISC MANUAL OF STEEL CONSTRUCTION. C. AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES. 	2.	DESIGN ALL STRUCTURAL MEMBERS IN ACCORDATE THE DESIGN OF COLD-FORMED STEEL STRUCTURA) STEEL INSTITUTE (AISI) "SPECIFI
R FROM DRAINING INTO EXCAVATION.		D. AWS STRUCTURAL WELDING CODE, D1.1.	3.	FORM ALL FRAMING MEMBERS FROM CORROSION AND THE FOLLOWING STRENGTH REQUIREMENTS:	-	NDING TO THE REQUIREMENTS OF
DISCONTINUE AFFECTED WORK AREA	2.	PROVIDE STRUCTURAL STEEL OF THE FOLLOWING ASTM DESIGNATIONS UNLESS NOTED OTHERWISE: A. STRUCTURAL STEEL WIDE FLANGE SHAPES: ASTM A 992, Fy = 50 KSI		FRAMING MEMBER GA. THICKNESS (N	MIL) MINIMUM YIELD	
R IN ACCORDANCE WITH BACKFILLING		 B. EDGE ANGLES, BENT PLATES, HANGERS AND BRACES: ASTM A 36, Fy = 36 KSI C. STRUCTURAL PIPE: ASTM A 53, GRADE B, TYPE E OR S, FY = 46 KSI 		STUDS, JOISTS 18 43 STUDS, JOISTS 16,14 54	3 33 KSI 4,68, 50 KSI	
AND REMOVE EXCESS MATERIAL NOT		 D. HOLLOW STRUCTURAL SHAPES: ASTM A 500, GRADE B, FY = 46 KSI E. BASE PLATES AND MISCELLANEOUS STEEL PLATES: ASTM A 36, FY = 46 KSI 		TRACKS, SOLID BLOCKING 16 MIN. 54		
N OR LOOSE SOIL FROM FALLING INTO		F. ANCHOR RODS: ASTM F 1554, GRADE 36 U.N.O.	4.	PLACE ALL COLD-FORMED STEEL STUD WALL BR UNLESS NOTED OTHERWISE. AS AN OPTION, CON	TINUOUS COLD-FORMED CHANN	ELS MAY BE POSITIONED THROUG
AND UTILITIES PRIOR TO EXCAVATION. E PROTECTED FROM THE EFFECTS OF		CONNECTION MATERIALS: A. BEAM-COLUMN STIFFENER PLATES AND DOUBLER PLATES TO MATCH THE GRADE STEEL OF STRUCTURAL ELEMENT: B. HIGH STRENGTH BOLTS: ASTM A 325 OR A 490. SEE NOTE D.	5	PUNCH OUTS AS BRIDGING PROVIDED THE CHANNI INSTALL AXIALLY LOADED STUDS IN A MANNER WI		
		 C. HARDENED STEEL WASHERS: ASTM A 323 OK A 430. SEE NOTE D. C. HARDENED STEEL WASHERS: ASTM F 436 D. CONNECTION DESIGNER SHALL BE CONSISTENT WITH BOLT SIZE AND GRADE THROUGHOUT JOB AT SIMILAR CONNECTIONS. 	J.	RUNNER WEB PRIOR TO FASTENING.		INDS ARE POSITIONED AGAINST TP
OF SILT, CLAY, LOAM, FRIABLE OR CE WITH ANSI/ASTM C136 WITHIN THE	Λ	ONLY ONE GRADE OF STEEL BOLT SHALL BE USED FOR ENTIRE CONSTRUCTION FOR EACH BOLT SIZE SPECIFIED AND INSTALLED. WELD MINIMUM SIZE AND STRENGTH:	6.	FASTEN COMPONENTS WITH SELF-DRILLING SCR STRENGTH OF THE CONNECTION. WIRE TYING OF PAINT.		
	4.	A. PROVIDE MINIMUM SIZE AND STRENGTH. A. PROVIDE MINIMUM SIZE OF FILLET WELDS AS SPECIFIED IN TABLE J2.4 OF THE AISC MANUAL. B. PROVIDE MINIMUM EFFECTIVE THROAT THICKNESS OF PARTIAL PENETRATION GROOVE WELDS AS SPECIFIED IN TABLE J2.3 OF	7.	WELDING OF COLD-FORMED STUDS MAY BE PERFO	ORMED USING A MINIMUM ONE-EI	GHTH INCH AWS TYPE 6013 WELDI
		THE AISC MANUAL. C. DEVELOP THE FULL TENSILE STRENGTH OF THE MEMBER ELEMENT JOINED, ON ALL SHOP AND FIELD WELDS, UNLESS NOTED	8.	SECURELY ANCHOR RUNNERS TO THE SUPPORTIN FOR THE BOTTOM RUNNER.	IG STRUCTURE. PROVIDE COMPL	ETE, UNIFORM, AND LEVEL BEARIN
		OTHERWISE ON THE DRAWINGS. D. WHERE CONNECTIONS ARE NOTED ON DRAWINGS AS MOMENT CONNECTIONS, PROVIDE WELDS TO DEVELOP FULL FLEXURAL CAPACITY OF THE LESSER MEMBER.	9.	SECURELY ANCHOR ABUTTING LENGTHS OF RUNN	IER TO A COMMON STRUCTURAL	ELEMENT, BUTT-WELDED OR SPLI
		 PROVIDE ELECTRODES FOR FIELD OR SHOP WELDING THAT CONFORM TO ASTM A 233 (CLASS 70). ALL WELDS ARE CONTINUOUS FOR THE FULL LENGTH OF THE CONNECTION UNLESS NOTED OTHERWISE ON DRAWINGS. 	10.	PLUMB, ALIGN, AND SECURELY ATTACH STUDS TO	THE FLANGES OF BOTH UPPER	AND LOWER RUNNERS. SPLICES IN
ORDANCE WITH ANSI/ASTMD1557. ACTIONS. BACKFILL WITH TYPE D FILL IMENTS FOR SUBSEQUENT BACKFILL	5.	PROVIDE MINIMUM OF TWO BOLTS PER CONNECTION. PROVIDE MINIMUM BOLT DIAMETER OF 3/4 INCH.		NOT PERMITTED.		
ATERIALS.	6.	PROVIDE BOLTS, NUTS AND WASHERS THAT ARE HOT DIP GALVANIZED ACCORDING TO ASTM A 153, CLASS C WHEN USED TO CONNECT STEEL ELEMENTS THAT ARE HOT DIP GALVANIZED AFTER FABRICATION.		PROVIDE HEADERS AND SUPPORTING STUDS FOR LEGATED DESIGN NOTES	FRAMING OF WALL OPENINGS.	
AL SETTLEMENT. DO NOT BACKFILL	7	SUBMIT CALCULATIONS FOR CONNECTION DESIGNS NOT FULLY DETAILED ON DRAWINGS. DESIGN CONNECTIONS UNDER SUPERVISION	1.	ANY BUILDING COMPONENTS WHERE DESIGN IS DE ENGINEER/ARCHITECT OF RECORD WITHIN THE DR		-
EXCEEDING 6 INCHES COMPACTED	1.	OF REGISTERED PROFESSIONAL ENGINEER, REGISTERED IN THE STATE WHERE PROJECT IS BEING CONSTRUCTED, EMPLOYED BY THE STEEL FABRICATOR. DESIGN CALCULATIONS TO BE SEALED BY FABRICATOR'S REGISTERED PROFESSIONAL ENGINEER. SHOP DRAWINGS SUBMITTED WITHOUT COMPLETE DESIGN CALCULATIONS WILL NOT BE REVIEWED.		ACCORDANCE WITH MINIMUM LOADS SPECIFIED A BE SUBMITTED BY CONTRACTOR FOR REVIEW AND AND CALCULATIONS.	BOVE. ANY DEVIATION FROM NO	TED LOAD VALUES SHALL
NTTAIN REQUIRED DENSITY. PLACED LEVEL WITH FINAL TOP OF	8.	PROVIDE SIMPLE SHEAR CONNECTIONS FOR STEEL CONNECTIONS NOT FULLY DETAILED BY UTILIZING HIGH STRENGTH BEARING BOLTS	2.	ADDITIONAL DESIGN LOADS INDICATED ON STRUC	TURAL DRAWINGS SHALL BE IDE	NTIFIED AS FOLLOWS:
OR STORM DRAINAGE INSTALLATION COMPLETION, TEMPORARY GRADING IS NOT DIRECTED AT THE WALL OR		IN SINGLE OR DOUBLE SHEAR. PROVIDE DOUBLE ANGLE BOLTED CONNECTIONS WHERE POSSIBLE. UNLESS LARGER REACTION IS SHOWN ON DRAWINGS, CONNECTION DESIGNER SHALL DESIGN EACH CONNECTION FOR MAXIMUM END REACTION RESULTING FROM THE APPLICATION OF THE ALLOWABLE UNIFORM LOADS LISTED IN TABLES OF PART 2 OF THE AISC MANUAL OF STEEL CONSTRUCTION.		DL = DEAD LOAD LL = LIVI WL = WIND LOAD EQ = SEIS Lr = ROOF LIVE LOAD SL = SNO	SMIC LOAD	
ISTRUCTION ADJACENT TO THE WALL		A. ADD TO REACTIONS LISTED ABOVE, LOADS OR REACTIONS OF MEMBERS SUPPORTED BY BEAM WITHIN THREE FEET OF BEAM END		SIGN CODES/REFERENCE FOR DESIGN AND		
ERING REPORT DATED 01/29/2020 BY	q	AND VERTICAL COMPONENTS OF FORCES IN BRACE MEMBERS FRAMING INTO BEAM.	1. 2.	AISI 2001 EDITION OF THE COLD-FORMED STEEL DE AWS D1.1-2000 - STRUCTURAL WELDING CODE - ST		
AND DETAILS WITH REQUIREMENTS OF D ON 3000 PSF NET ALLOWABLE SOIL		A. FABRICATE AND ASSEMBLE STRUCTURAL MEMBERS/ASSEMBLIES IN SHOP TO GREATEST EXTENT POSSIBLE. B. SPLICING OF STRUCTURAL STEEL MEMBERS IS PROHIBITED WITHOUT PRIOR APPROVAL BY THE A/E.	2. 3.	ACI 318 BUILDING CODE REQUIREMENTS FOR STRU		ON
FOR GENERAL REQUIREMENTS OF AND COMPACTION, WATERPROOFING		C. FABRICATOR SHALL BE RESPONSIBLE FOR ALL ERRORS OF DETAILING ON THE SHOP DRAWINGS, ERRORS IN FABRICATION, AND THE CORRECT FITTING OF STRUCTURAL STEEL MEMBERS.	4.	ANSI / AISC 360-05, SPECIFICATION FOR STRUCTUR	RAL STEEL BUILDINGS, 13TH EDIT	ION.
THERE IS A CONFLICT BETWEEN TIONS THEN THE MORE STRINGENT		D. CONFORM TO THE AISC CODE OF STANDARD PRACTICE, FOR ERECTION TOLERANCES. FIELD MODIFICATION TO STRUCTURAL STEEL IS PROHIBITED WITHOUT PRIOR APPROVAL BY THE A/E.	5.	STRUCTURAL WELDED WIRE REINFORCEMENT MA	NUAL OF STANDARD PRACTICE, N	WIRE REINFORCEMENT INSTITUTE
ABS WITH 1/2 INCH EXPANSION JOINT		 E. CLEAN STEEL OF RUST, LOOSE MILL SCALE AND OTHER FOREIGN MATERIALS WHERE REQUIRED FOR FABRICATION, FITTING UP, OR WELDING. F. DO NOT CUT STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT PRIOR REVIEW AND APPROVAL OF THE 	6.	ACI 530 BUILDING CODE REQUIREMENTS FOR MAS	ONRY STRUCTURES, 2005 EDITIO	N
PENDICULAR TO PIPE RUNS TO ALLOW E BEAMS PARALLEL TO PIPE RUNS TO		ARCHITECT/ENGINEER. G. SHOP PRIME ALL MEMBERS NOT SCHEDULED FOR GALVANIZING WITH RED OXIDE PRIMER UNLESS NOTED OTHERWISE. DO NOT	7.	SJI RECOMMENDED CODE OF STANDARD PRACTIC	E FOR STEEL JOISTS AND JOIST	GIRDERS, 1994 EDITION
FOUNDATIONS ARE PLACED. TOR CUT AND FILL OPERATIONS AND		PAINT AT LOCATIONS OF FIELD WELDS.	8.	NATIONAL DESIGN SPECIFICATIONS (NDS) FOR WO	OD CONSTRUCTION 2005 EDITION	N, WITH 2005 SUPPLEMENT
COMPACTION AND APPROVE FOOTING	10.	HOT DIP GALVANIZE AFTER FABRICATION ALL STRUCTURAL STEEL AND THEIR CONNECTIONS PERMANENTLY EXPOSED TO THE OUTSIDE. ITEMS INCLUDED BUT NOT LIMITED TO:		STRUCTURAL WELDED WIRE REINFORCEMENT MAI		
G FREE WATER, FROST, OR ICE. SURE SURFACE RUNOFF AWAY FROM		 A. SHELF ANGLES. B. EMBEDDED PLATES IN CONCRETE C. EXAMINE THE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR OTHER ITEMS THAT REQUIRE HOT DIPPED GALVANIZATION. 		LIVE LOAD REDUCTION ON SUPPORTING ELEMENT	S IN ACCORDANCE WITH BC-NYS	2010
THE STRUCTURES. TOR CUT AND FILL OPERATIONS AND	11	PROVIDE GROUT FOR BASE PLATES THAT IS NON-SHRINK, NON-METALLIC GROUT WITH MINIMUM 28 DAY COMPRESSIVE STRENGTH OF	SPE			
COMPACTION AND APPROVE FOOTING	11.	6000 PSI.		D INSPECTION AND TESTING	BC NYS 2017 REFERENCE	AISC 360
	12.	FURNISH STEEL SHOP DRAWINGS FOR ARCHITECT'S AND STRUCTURAL ENGINEER'S REVIEW PRIOR TO FABRICATION. INCLUDE WELDING	\square	WELDING OF STRUCTURAL STEEL	1705.2	AISC 360 AISC 360, AWS D1.1
OF CONCRETE IN ACCORDANCE WITH CEMENT UNLESS NOTED OTHERWISE.		PROCEDURES, TESTING PROGRAMS FOR WELDING AND HIGH STRENGTH BOLTING, COATING MATERIAL AND ERECTION SEQUENCE ON SHOP DRAWINGS. SHOP DRAWINGS SHALL NOT BE REPRODUCTIONS OF CONTRACT DOCUMENTS. SHOP DRAWINGS SHALL BE		STRUCTURAL STEEL MEMBERS	1705.2	AISC 360
Efc		PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER AND ALL DRAWINGS SHALL BE SIGNED AND SEALED BY SAID ENGINEER REGISTERED IN THE STATE OF NEW YORK.		COLD-FORMED STEEL DECKING	1705.2	SDI
G LABORATORY FOR REVIEW AND	13.	MILL STEEL COLUMN ENDS TO FIT FLUSH WITH BASE PLATE, CAP PLATE AND END PLATES. FIELD ASSEMBLY OF THESE STEEL ELEMENTS		OPEN-WEB STEEL JOISTS AND JOIST-GIRDERS	1705.2; TABLE 1705.2.3	SJI
A.C.I. CODE AND AS INDICATED ON					1705.2	- AISC 360
ED UNLESS SPECIFICALLY NOTED OR NDICATING PROPOSED CONTROL AND	14.	WHERE A GIRDER SUPPORTS A COLUMN OR RUNS OVER A COLUMN, PROVIDE STIFFENER PLATES EACH SIDE OF THE BEAM WEB EQUAL IN THICKNESS TO COLUMN FLANGES. STIFFENER PLATES SHALL OCCUR DIRECTLY UNDER OR OVER COLUMN FLANGES (OR WEBS IF NECESSARY). MILL STIFFENER PLATES FOR BEARING AT TOP AND BOTTOM OF PLATES.	$\mathbf{\mathbf{x}}$	INSPECTION OF STEEL FRAME JOINT DETAILS	1705.3; TABLE 1705.3	ACI 318
APPROVAL PRIOR TO INSTALLATION. RWISE. NEW CONCRETE.	15.	WHERE SHELF ANGLES ARE ATTACHED TO SPANDREL BEAMS, SHIMS SHALL BE PROVIDED FOR VERTICAL ADJUSTMENT AND SLOTTED	Ĺ	MASONRY CONSTRUCTION: TYPE A	1705.4	TMS 402/ACI 530/ASCE 5 & TMS 602/ACI 530.1/ASCE
CTURAL ENGINEER FOR MECHANICAL	-	HOLES FOR HORIZONTAL ADJUSTMENT.		MASONRY CONSTRUCTION: TYPE B	1705.4	TMS 402/ACI 530/ASCE 5 & TMS 602/ACI 530.1/ASCE TMS 402/ACI 530/ASCE 5 &
	16.	PROVIDE TEMPORARY SHORING OR BRACING DURING CONSTRUCTION PHASE PRIOR TO COMPLETING CONNECTIONS AND INSTALLATION OF FLOOR SLAB. TEMPORARY CONSTRUCTION BRACING OF THE STRUCTURAL STEEL FRAME IS THE RESPONSIBILITY OF THE		MASONRY CONSTRUCTION: TYPE C WOOD CONSTRUCTED SITE-BUILT ASSEMBLIES	1705.4 1705.5; 1704.2.5	TMS 602/ACI 530.1/ASCE
INFORCING AND ACCESSORIES IN		CONTRACTOR AND SHALL REMAIN IN PLACE UNTIL AFTER THE PERMANENT BRACING SYSTEM HAS BEEN COMPLETED.		METAL -PLATE-CONNECTED WOOD TRUSSES	1705.5	-
TH ASTM A 615, GRADE 60. CHOR RODS. SET ANCHOR RODS WITH	17.	HEADED STUDS (SHEAR AND ANCHOR) AND DEFORMED ANCHORS:AR A. PROVIDE HEADED STUDS (SHEAR AND ANCHOR) MADE OF MATERIAL CONFORMING TO ASTM A 108.		SOIL TESTING AND INSPECTION	1705.6; TABLE 1705.6	•
R REINFORCING. EINFORCEMENT. PROVIDE STANDARD		 B. PROVIDE DEFORMED ANCHORS MADE OF MATERIAL CONFORMING TO ASTM A 496. C. WELD STUDS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. MANUAL ARC (STICK) WELDING OF HEADER STUDS AND/OR 		DRIVEN DEEP FOUNDATIONS	1705.7; TABLE 1705.7	
HERWISE. STEEL UNLESS NOTED OTHERWISE:	ME	DEFORMED ANCHORS IS NOT ALLOWED.		CAST-IN-PLACE DEEP FOUNDATIONS HELICAL PILE FOUNDATIONS	1705.3, 1705.8; TABLE 1705.8	·
	1.	PROVIDE DESIGN, FABRICATION, AND ERECTION OF METAL DECK CONFORMING TO THE STEEL DECK INSTITUTE'S "CODE OF RECOMMENDED STANDARD PRACTICE AND BASIC DESIGN SPECIFICATIONS".			1703.5	
NTACT WITH THE GROUND:	2.	FORM ROOF AND FLOOR DECK FROM STEEL SHEETS CONFORMING TO ASTM A 611 GRADE C AND D OR A 653 OR HIGHER SPECIFICATIONS WITH A MINIMUM YIELD STRENGTH OF 33 KSI.		TE: THE ABOVE TABLE IS INTENDED TO SUMMARIZE THE REQUIRED S OF THEIR INCLUSION IN THE SCOPE. THE CONTRACTOR IS RESPOI		
CIFICALLY SHOWN OR APPROVED BY	3.	ATTACH SHEETS TO STEEL SUPPORT MEMBERS AS INDICATED AND IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION. WHEN DECK IS SCHEDULED TO BE EXPOSED, DE-SLAG, CLEAN AND TOUCHED UP WELDS WITH A ZINC-RICH PRIMER.	A R	ALL OF THE SPECIFIC REQUIREMENTS OF THE SECTIONS LISTED A REQUIRED SPECIAL INSPECTIONS, THERE MAY BE OTHER, OR MO THE SPECIFICATIONS THAT ARE REQUIRED BY THE SCOPE OF WO	ABOVE. IT IS NOT INTENDED TO BE AN EX RE SPECIFIC, REQUIREMENTS SHOWN EL	HAUSTIVE OR COMPLETE LIST OF
T IN ACCORDANCE WITH ASTM A 706 IFORCEMENT IN CONFORMANCE WITH AMERICAN WELDING SOCIETY, AWS LED BARS ARE TO BE WELDED TO A	4.	LAP ROOF AND FLOOR DECK ENDS MINIMUM OF 2 INCHES. WHEN FASTENING DECK TO SUPPORT MEMBERS PROVIDE WELDING MATERIALS INSTALLATION PROCEDURES TO PREVENT BURNING OF HOLES IN DECK.		THE REFERENCE STANDARD COLUMN ABOVE IS FOR GENERAL US BEING IN COMPLIANCE WITH ALL STANDARDS REFERENCED IN TH	,	OR
OF MAIN REINFORCING.	5.	PROVIDE SIX INCH CLOSURE STRIP WHERE CHANGES IN DECK DIRECTION OCCUR. CLOSURE TO BE SAME GAGE AS DECK.				
DEGREE BENDS AND EXTENSIONS AT DETAILS.	6.	AT ENDS OF DECKS OR WHERE CHANGES OF DECK DIRECTION OCCUR, FASTEN TO SUPPORTS AT EACH FLUTE. PROVIDE ADEQUATE CLOSURES AND FASTENERS TO SIDES AT EIGHTEEN INCHES ON CENTER.				
	7.	WHERE PARTIAL PANELS MAY BE REQUIRED TO COMPLETE DECK INSTALLATION AT PERIMETER OF STRUCTURE, PROVIDE WELDS IN EACH FLUTE TO STRUCTURAL MEMBERS. INSTALL DECK IN THREE CONTINUOUS SPAN LENGTHS.				

DRAWINGS.

CIFICATION FOR

S OF ASTM A653

	GA. THICKNESS	(MIL)	MINIMUM YIE
	18	43	33 KSI
	16,14	54,68,	50 KSI
ING	16 MIN.	54	50 KSI

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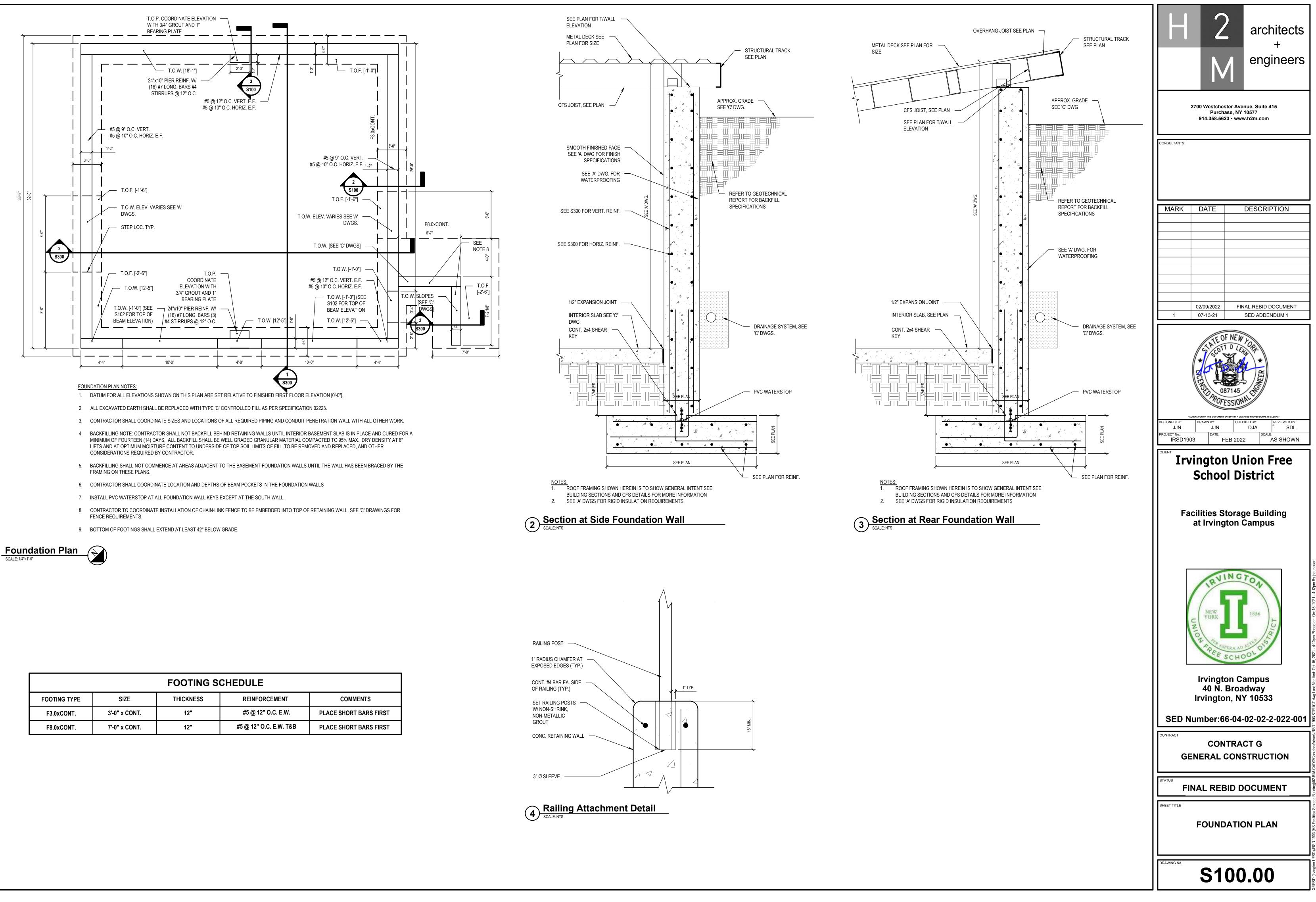
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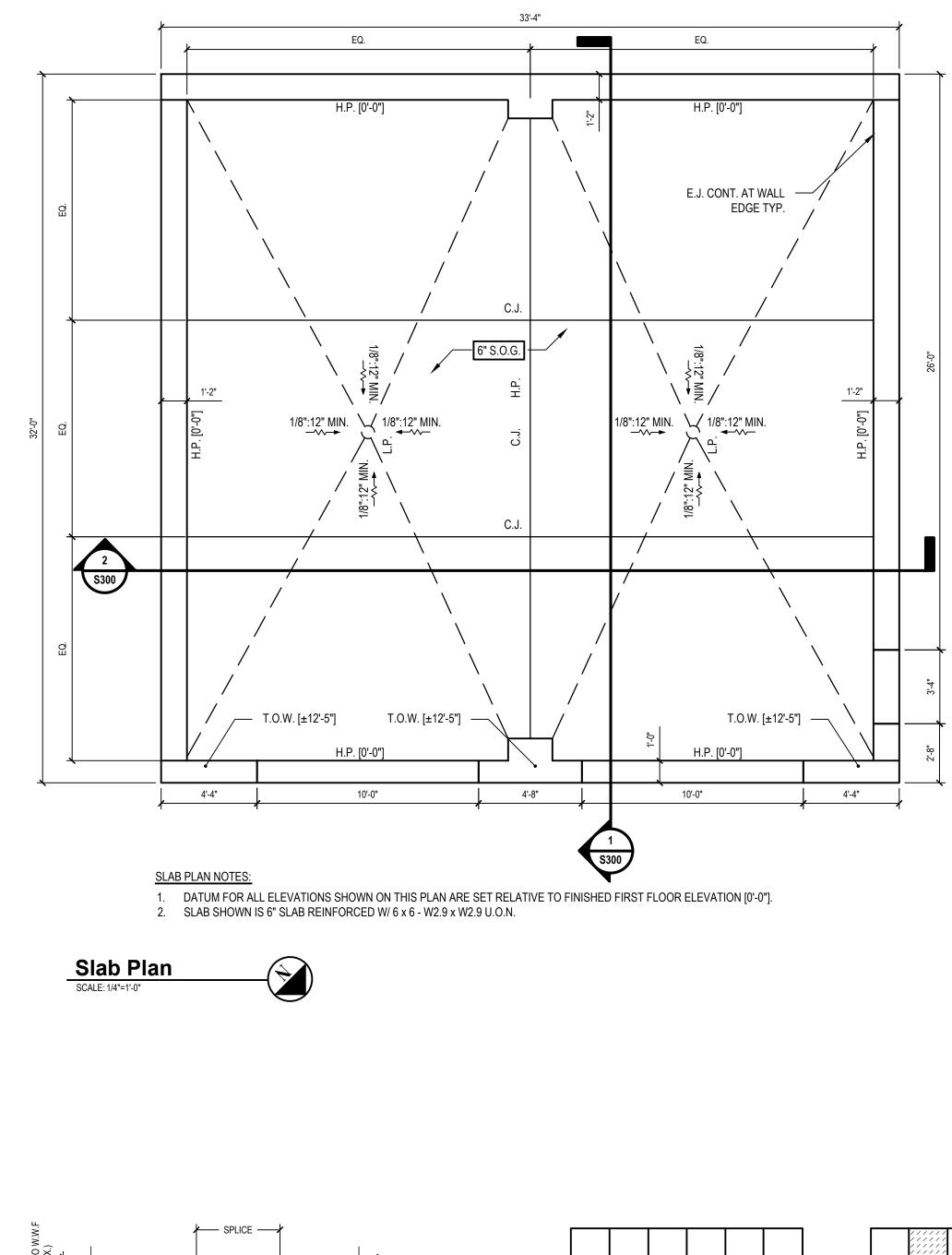
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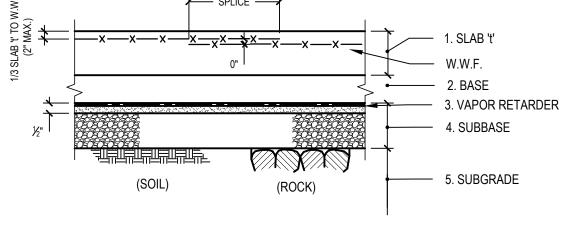
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FOOTING SCHEDULE					
FOOTING TYPE	SIZE	THICKNESS	REINFORCEMENT	COMMENTS	
F3.0xCONT.	3'-0" x CONT.	12"	#5 @ 12" O.C. E.W.	PLACE SHORT BARS FIRST	
F8.0xCONT.	7'-0" x CONT.	12"	#5 @ 12" O.C. E.W. T&B	PLACE SHORT BARS FIRST	





TYPICAL DETAIL- SLAB ON GROUND

NOTE:

- SLAB THICKNESS 't'=6" UNLESS OTHERWISE NOTED ON PLANS. 1 BASE =4" LAYER OF PROCESSED AGGREGATE, SIZE NO. 10 PER ASTM D448. (SAND 2. OF UNIFORM PARTICLE SIZE OR CONCRETE FINE AGGREGATE IS NOT
- ACCEPTABLE). VAPOR RETARDER (VAPOR "BARRIER"): 10 MILS THICK POLYETHYLENE. SLAB SUBBASE: 4" LAYER OVER SOIL, 5" MIN. OVER ROCK SUBGRADE, 4.
- COMPACTABLE GRANULAR FILL. COVER ROUGH FILL WITH 1/2" OF BASE AGGREGATE AND COMPACT IT ONTO SUBBASE.
- 5. SUBGRADE: COMPACTED FILL, BACKFILL OR UNDISTURBED SOIL, OR LEVELED ROCK SURFACE.

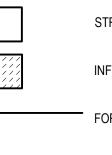
SLAB ON GROUND NOTES:

- 1. SLAB ON GROUND SHALL BE PLACED IN STRIPS, AS SHOWN IN "SUGGESTED SEQUENCE OF CASTING STRIPS" AT MINIMUM OR IN LOCATIONS SHOWN ON THE SLAB PLANS.
- 2. CONTROL JOINTS SHALL BE SAWCUT AS SOON CONCRETE IS HARD ENOUGH NOT TO BE TORN OR DAMAGED BY THE BLADE, AND BEFORE THE CONCRETE STARTS TO COOL. TYPICALLY JOINTS SHOULD BE CUT 4 TO 12 HOURS AFTER THE SLAB HAS BEEN FINISHED, DEPENDING UPON WEATHER AND JOB CONDITIONS. 3. SPACING OF SAWCUT CONTROL JOINTS (IN FEET) TO BE APPROXIMATELY THREE TIMES THE SLAB THICKNESS IN INCHES, WITH A MAXIMUM OF
- TWENTY (20) FEET. 4. A MAXIMUM RATIO OF 1.5 SHALL BE MAINTAINED BETWEEN LONG AND SHORT DIMENSIONS OF PANELS FORMED BY CONSTRUCTION AND CONTROL JOINTS.

SUGGESTED SEQUENCE OF CASTING STRIPS LEGEND:

(1) (2) (3) (4) (5) (6)

ADJACENT STRIPS



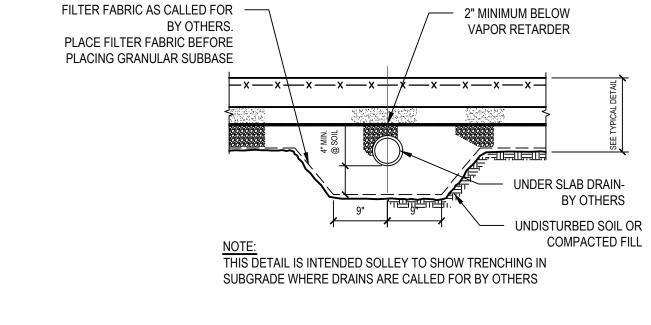
2 Typical Slab-on-Grade Detail

LEGEND:

C.J. = CONTROL JOINT E.J. = 1/2" PREMOLDED EXPANSION JOINT WITH SEALANT H.P. = HIGH POINT OF PITCHED SLAB L.P. = LOW POINT OF PITCHED SLAB OF SLAB

 $\overline{\mathbf{r}}$

NDICATES STEP IN SLAB



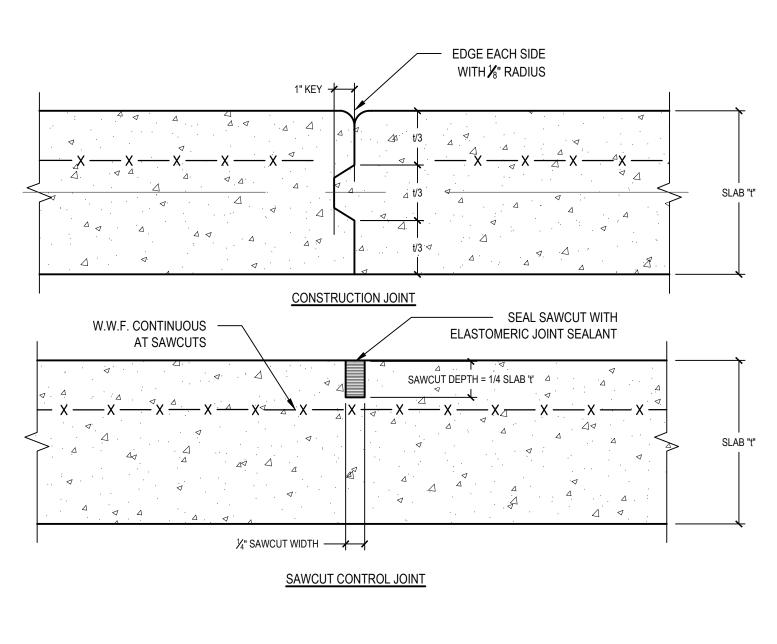


STRIPS CAST FIRST

INFILL STRIPS

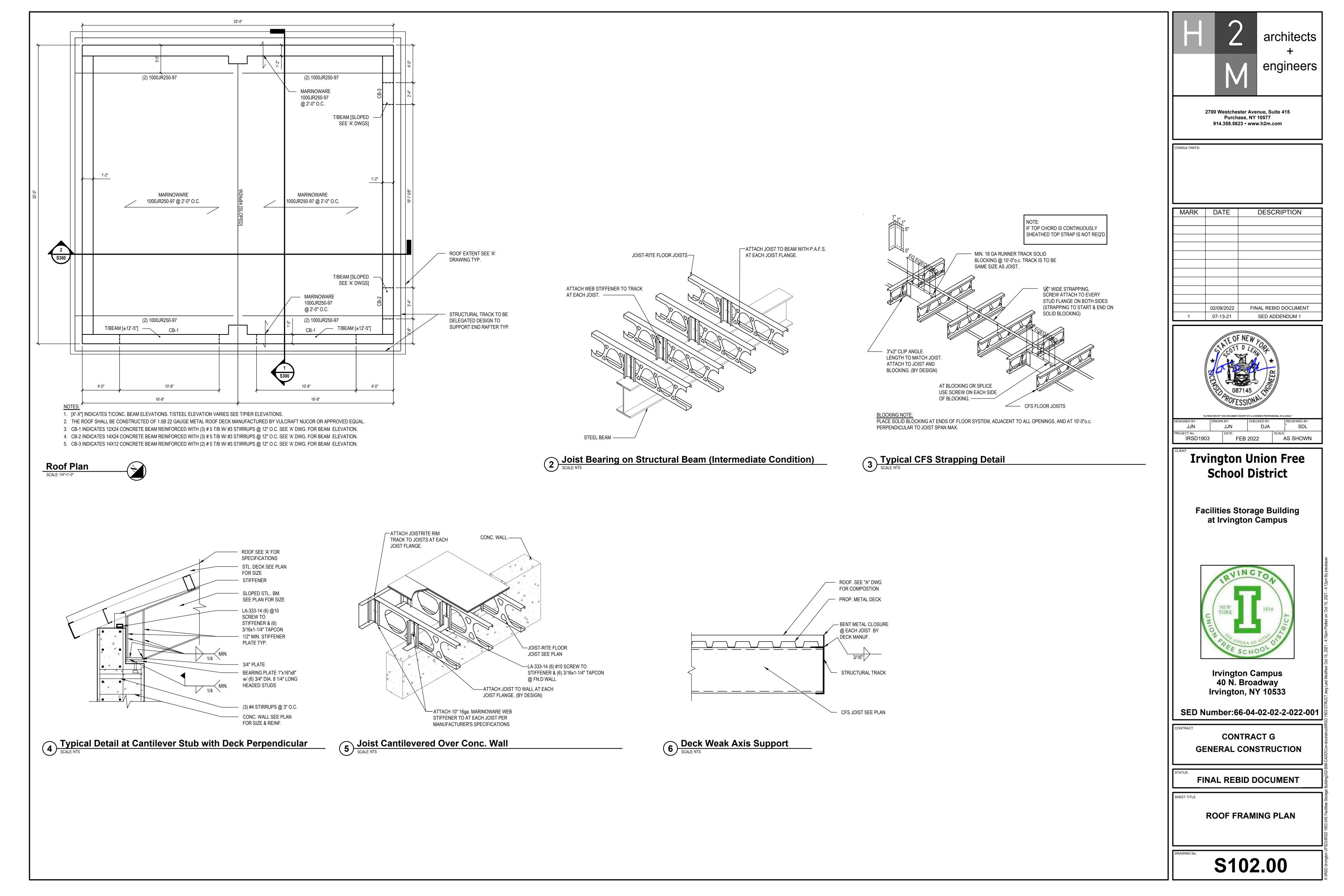
FORMED JOINTS

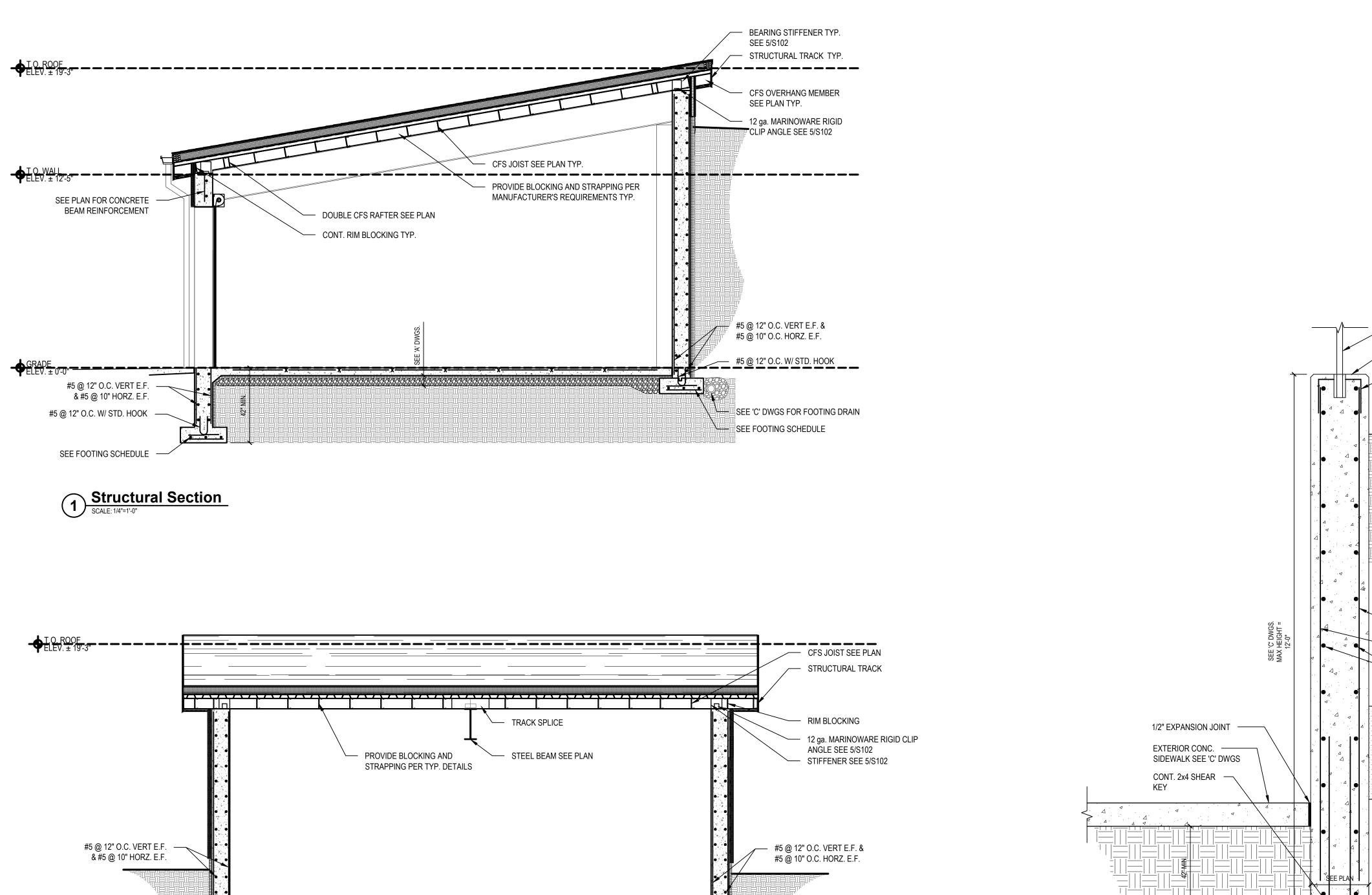
SAWCUT JOINTS

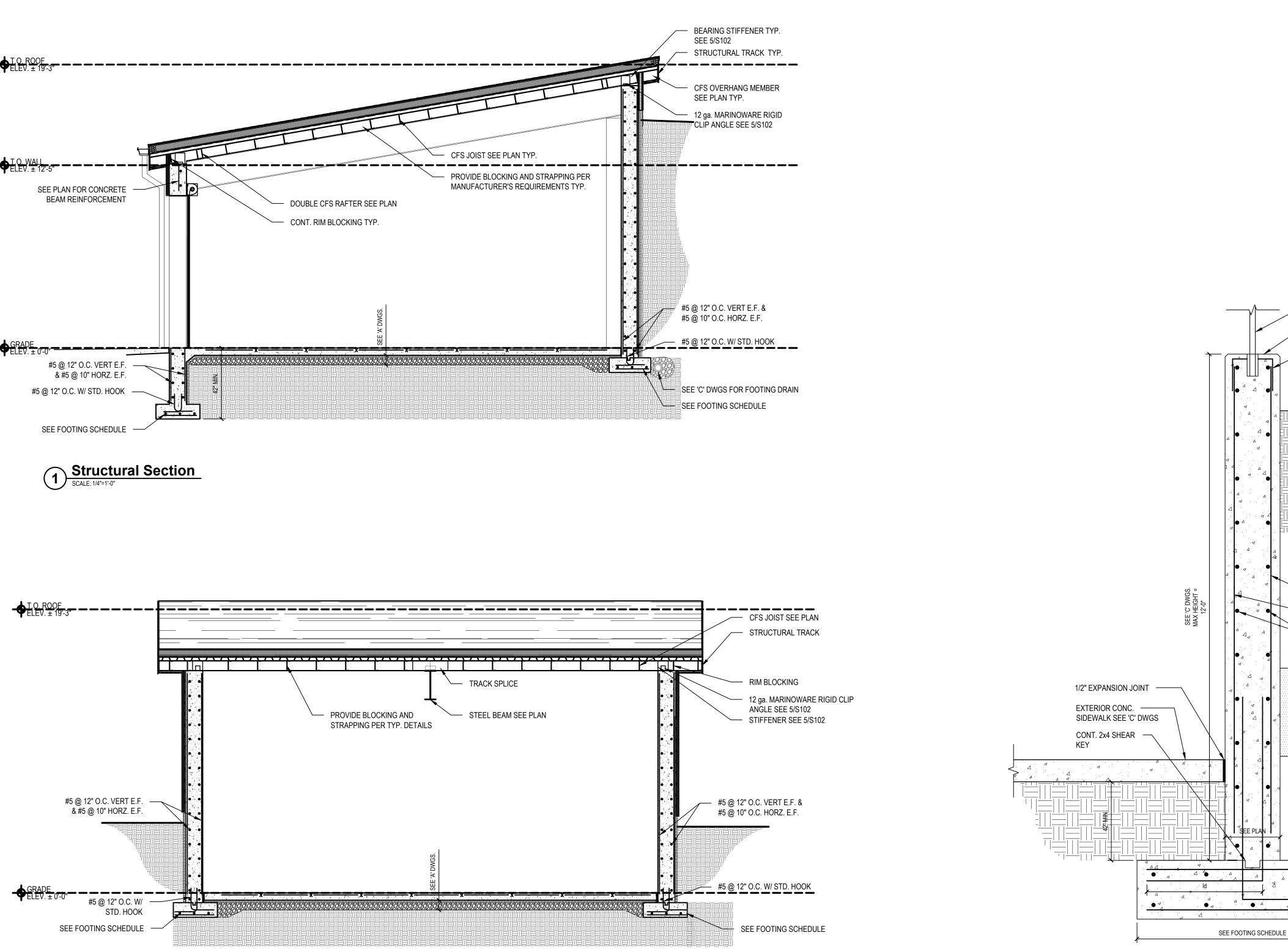


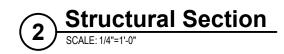


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	N	1	+ engineers		
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3 Section at Retaining Wall

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	2700 Westcheste	er Avenue, Su		
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	Irvingto	n Camp Broadwa	us y 533	STRUCT.dwg Last Modified
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ELEVATION AND FINISH — #3 U @ 12" O.C. APPROX. GRADE -SEE 'C' DWG

RAILING POST SEE 4/S100

— SEE 'C' DWG. FOR T/WALL

REFER TO GEOTECHNICAL REPORT FOR BACKFILL SPECIFICATIONS

— #6 @ 10" O.C. E.F.

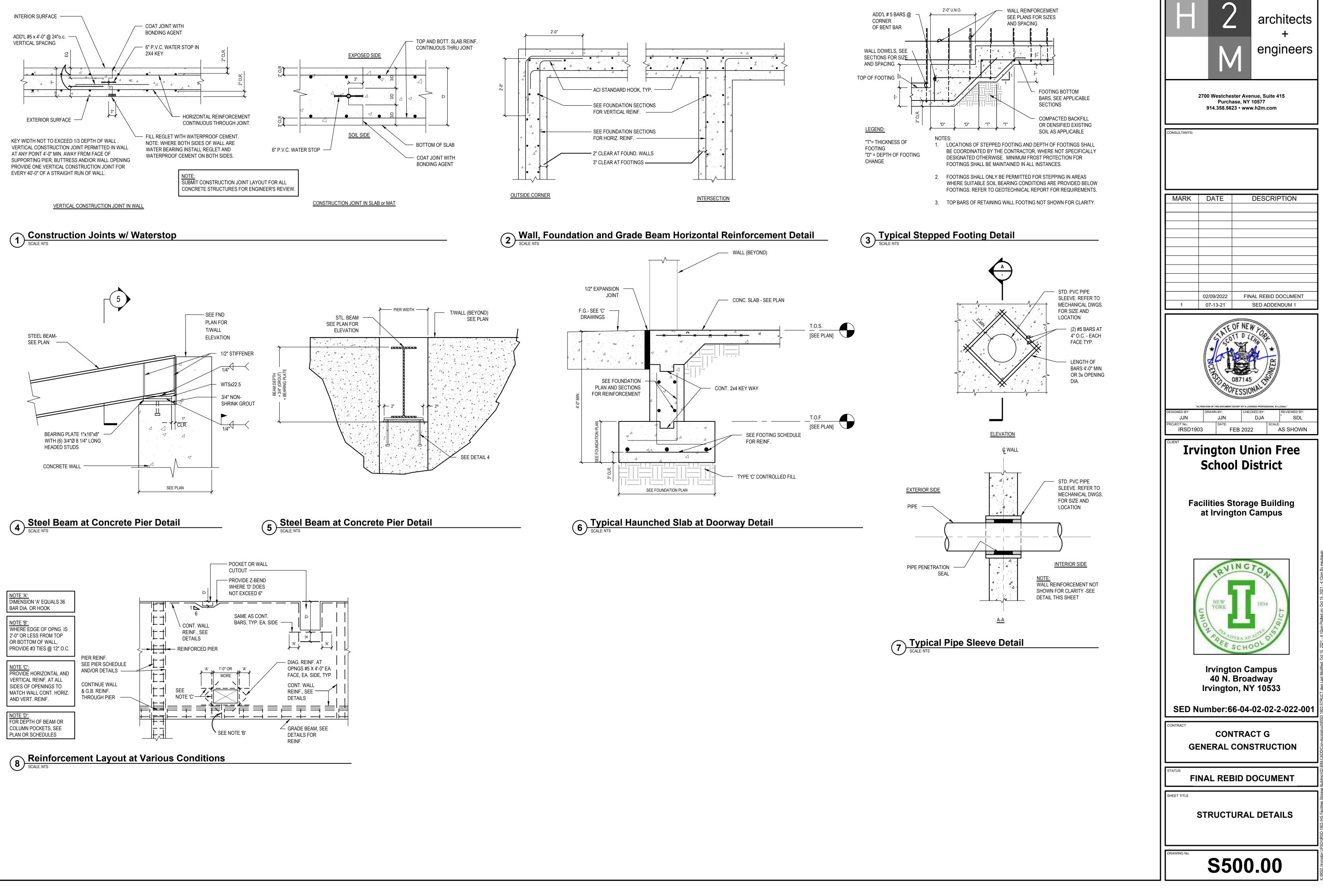
— #5 @ 12" O.C. E.F.

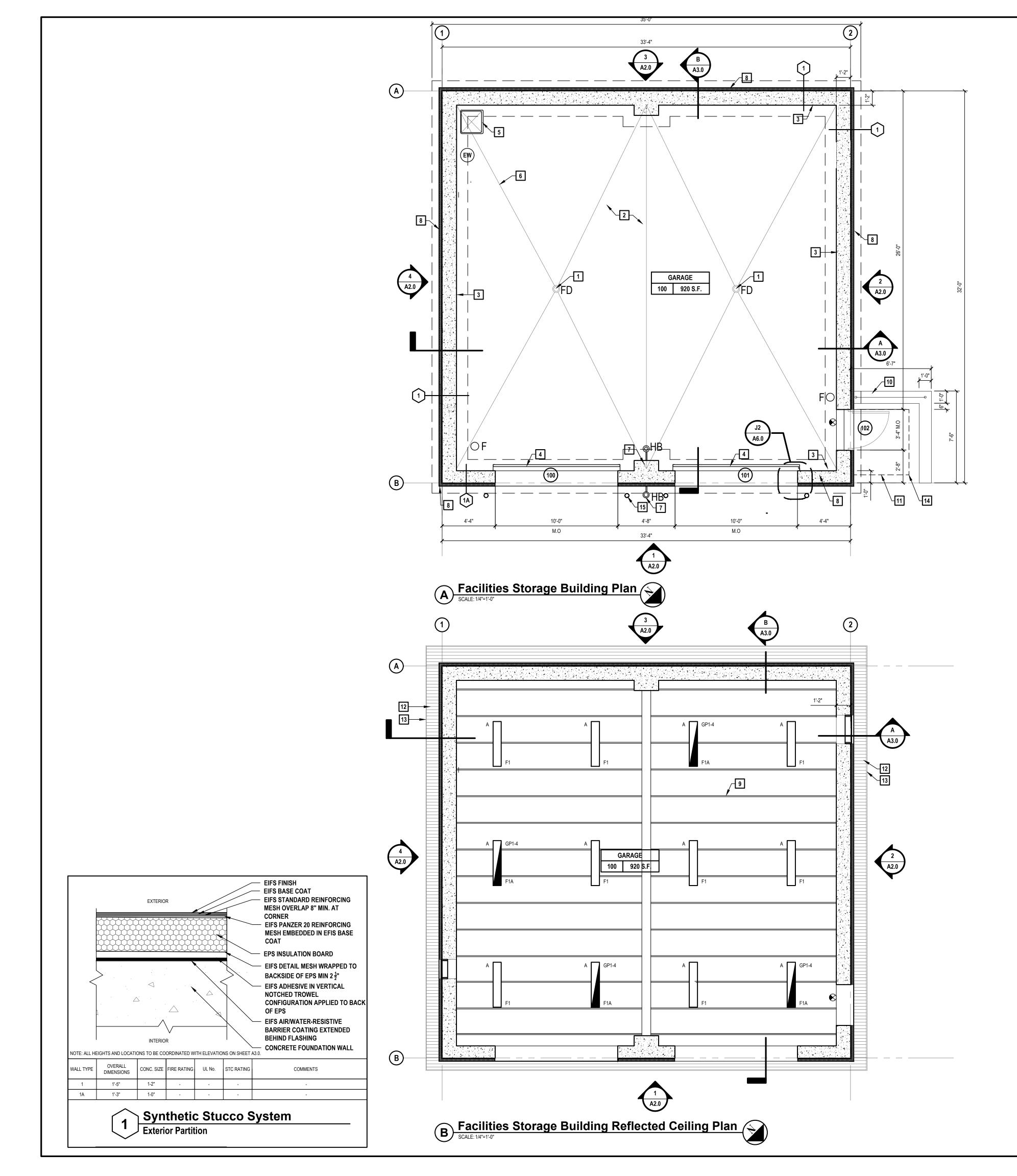
🔪 #4 @ 16" O.C. E.F.

DRAINAGE SYSTEM, SEE 'C' DWGS.

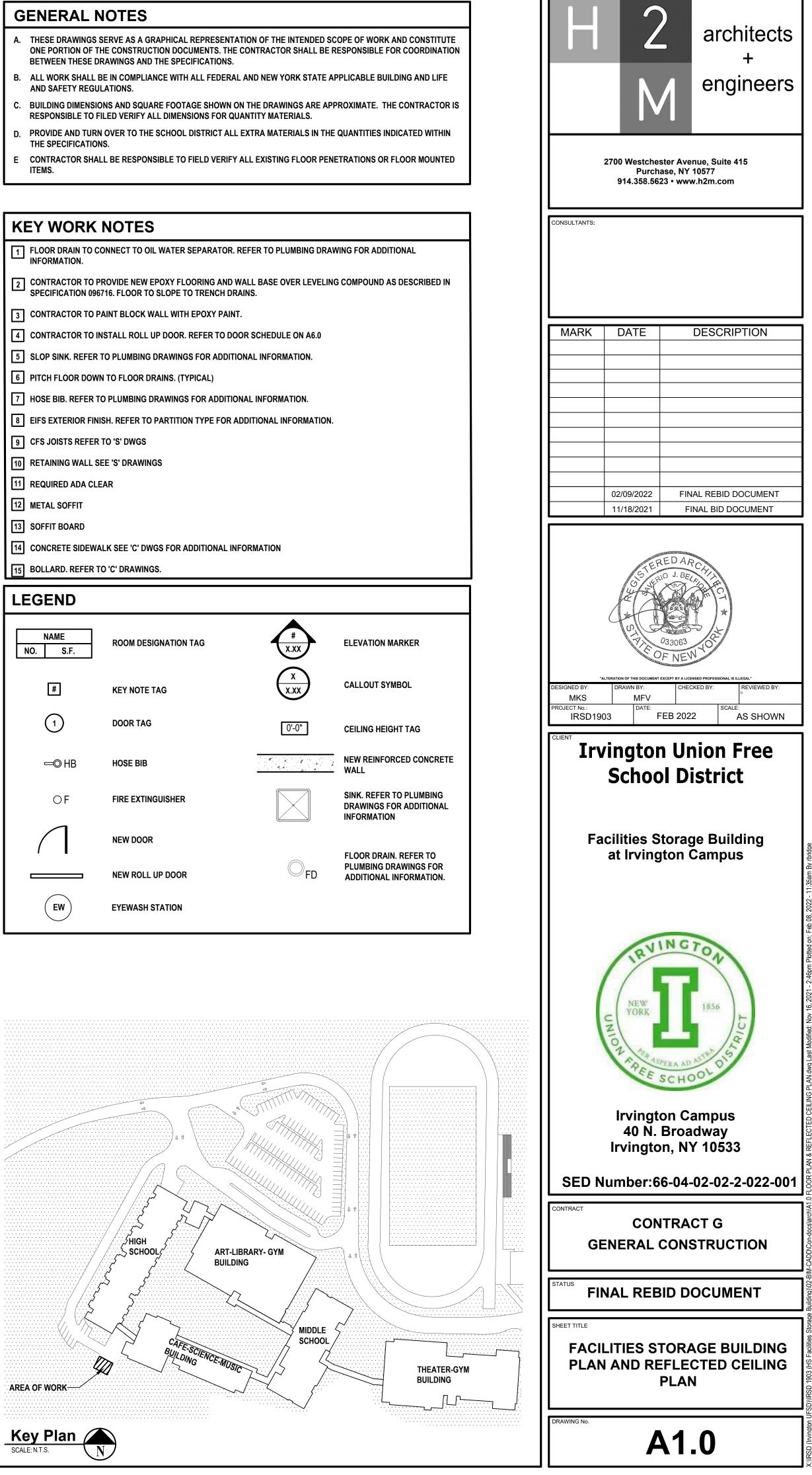
SEE FOOTING SCHEDULE FOR REINF.

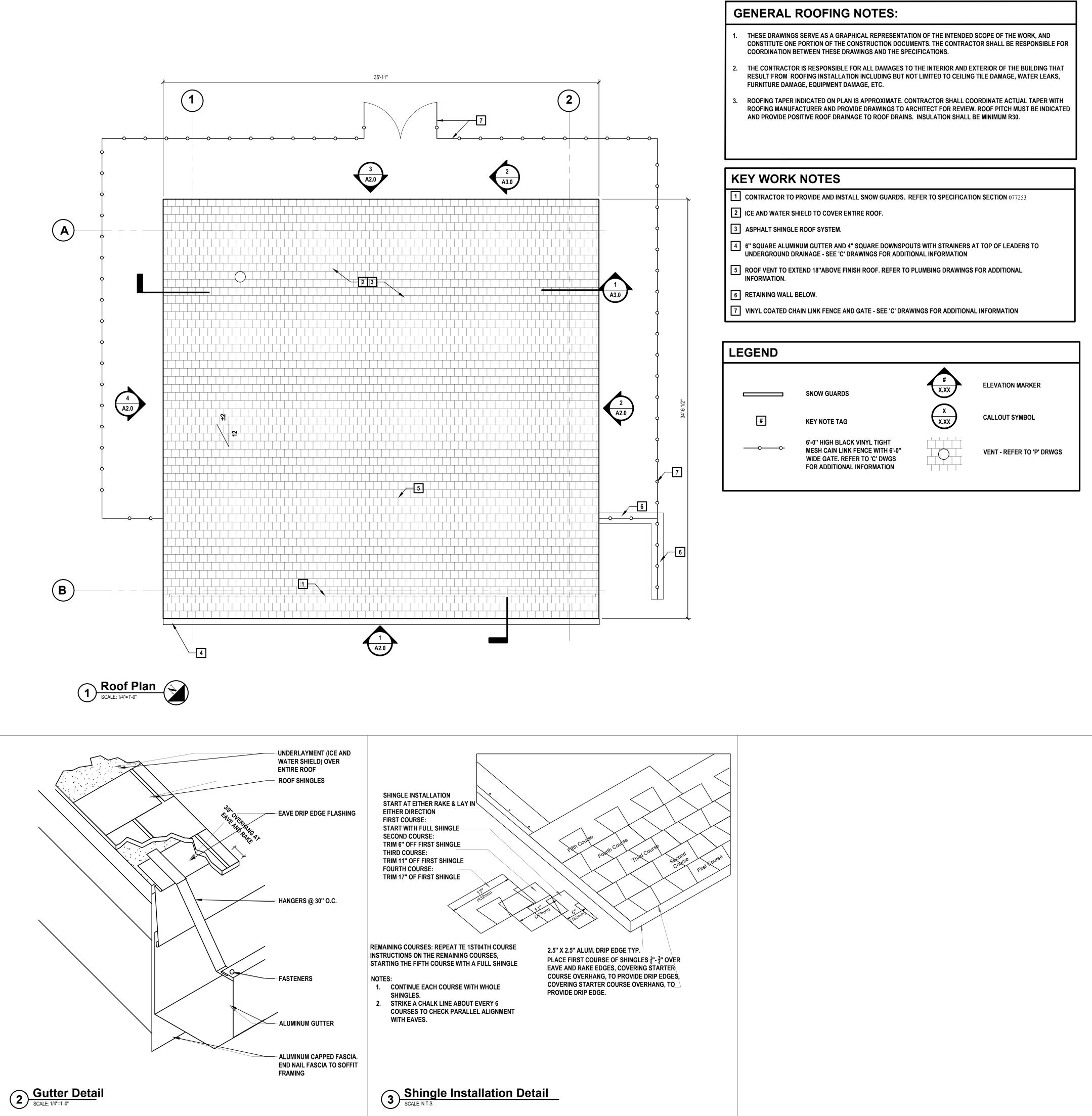
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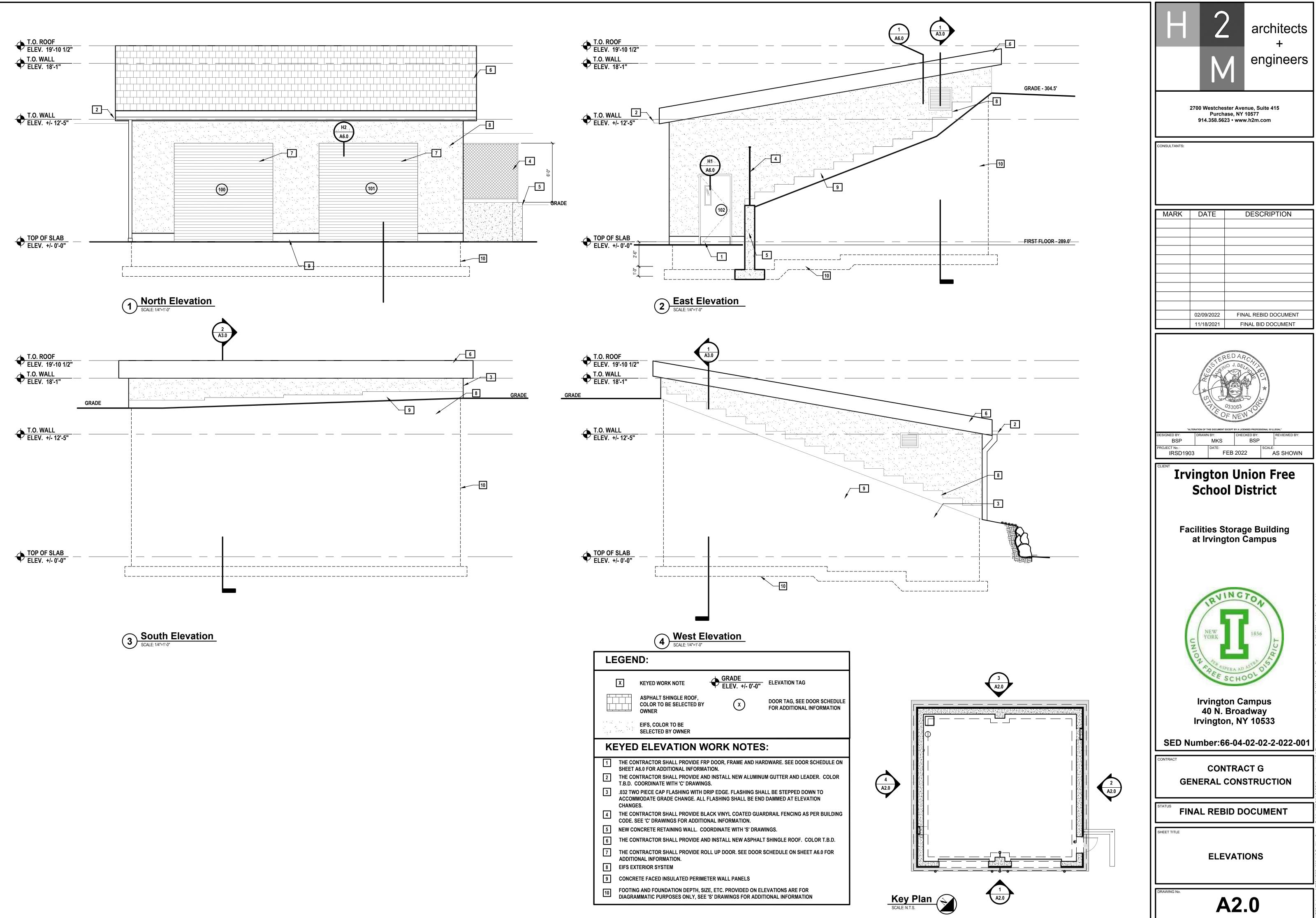


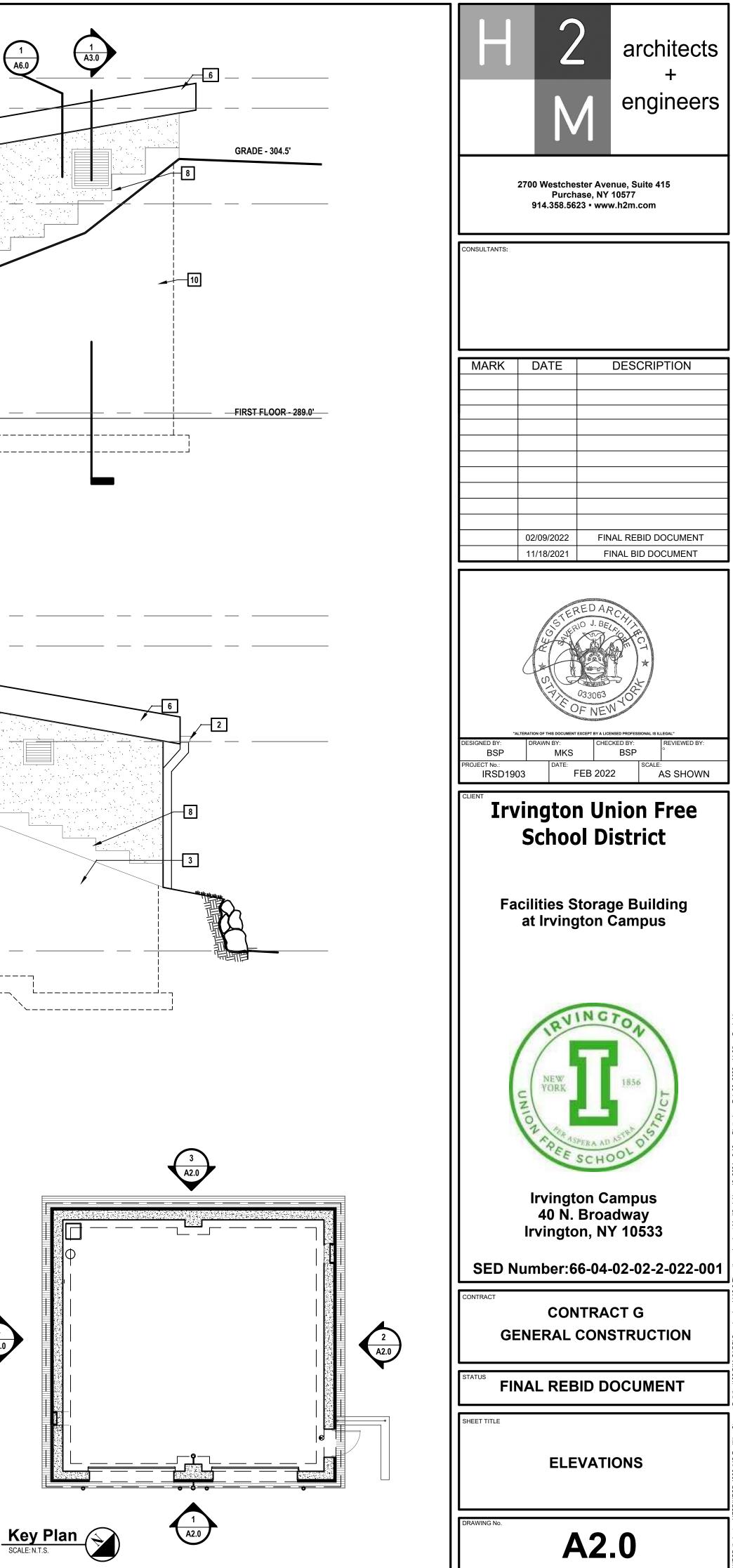
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А.	THESE DRAWINGS ONE PORTION OF BETWEEN THESE I	THE CONSTR
В.	ALL WORK SHALL	
C.	BUILDING DIMENS RESPONSIBLE TO	
D.	PROVIDE AND TUR THE SPECIFICATIO	
E	CONTRACTOR SH	ALL BE RESP
K	EY WORK	
1	FLOOR DRAIN TO INFORMATION.	CONNECT TO
2	CONTRACTOR TO SPECIFICATION 09	
3	CONTRACTOR TO	PAINT BLOC
4	CONTRACTOR TO	INSTALL RO
5	SLOP SINK. REFER	R TO PLUMBI
6	PITCH FLOOR DOW	VN TO FLOOP
7	HOSE BIB. REFER	TO PLUMBIN
8	EIFS EXTERIOR FI	NISH. REFER
9	CFS JOISTS REFE	r to 's' dwg
10	RETAINING WALL	SEE 'S' DRAV
11	REQUIRED ADA CI	EAR
12	METAL SOFFIT	
13	SOFFIT BOARD	
14	CONCRETE SIDEW	ALK SEE 'C'
15	BOLLARD. REFER	TO 'C' DRAW
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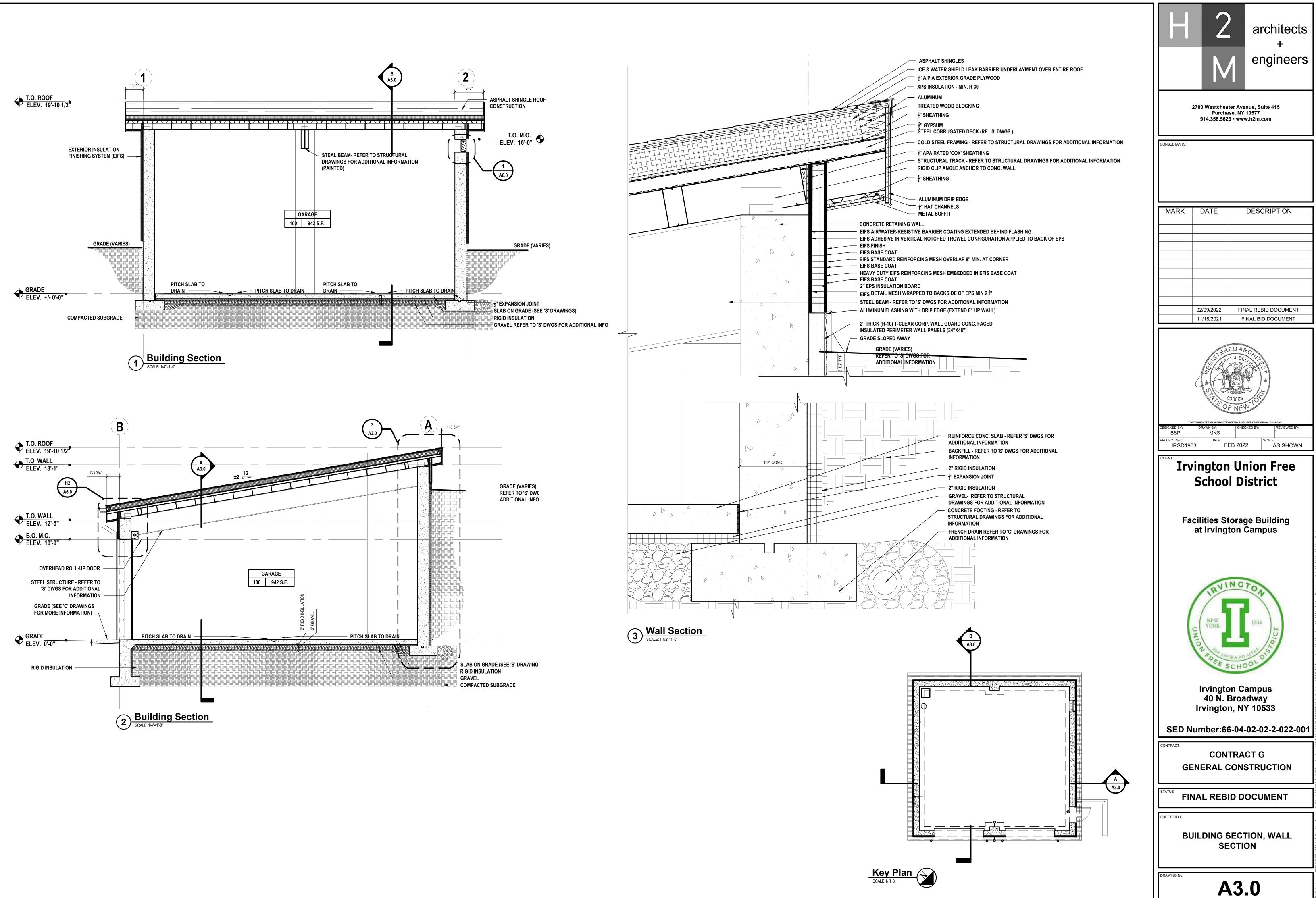


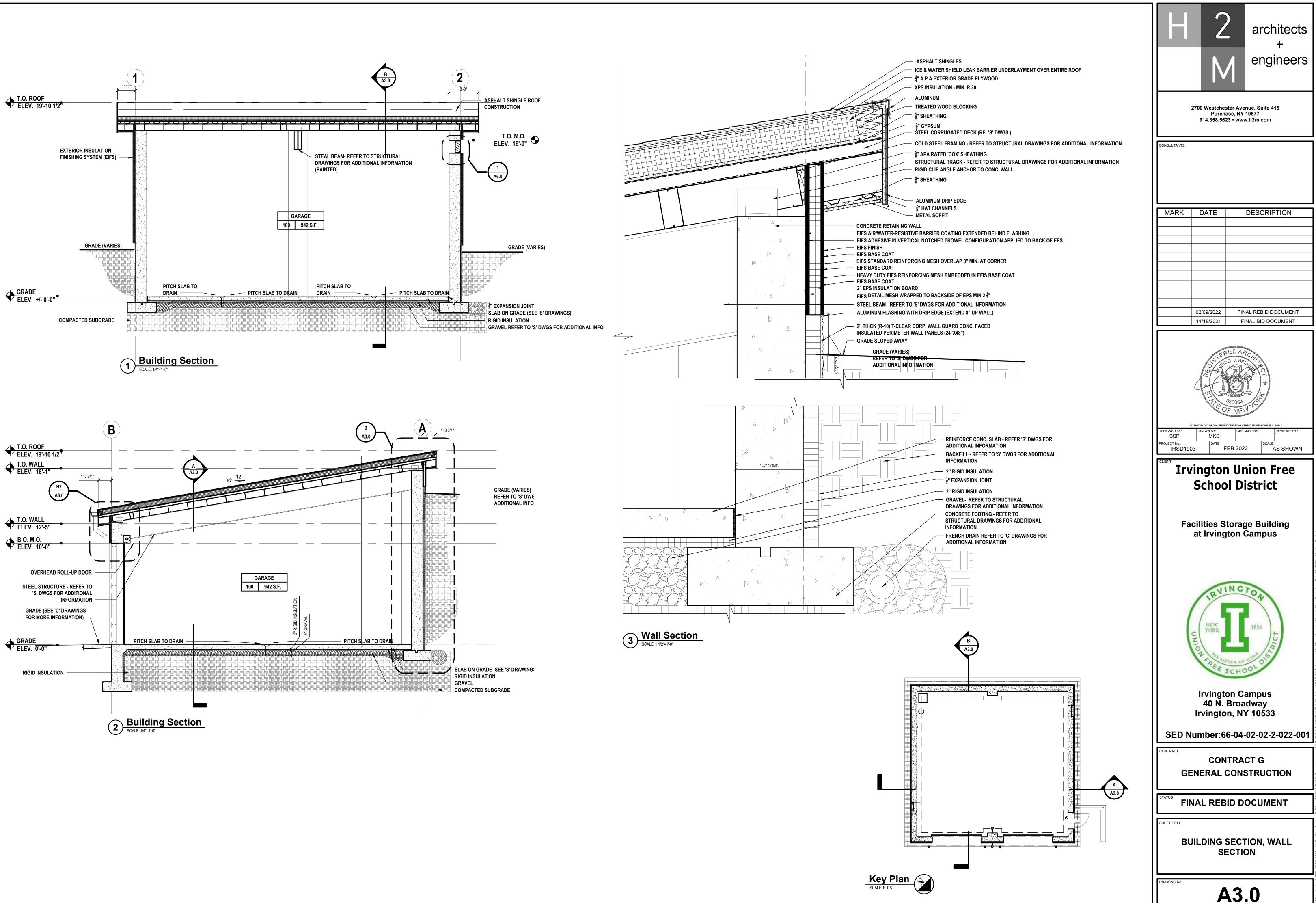


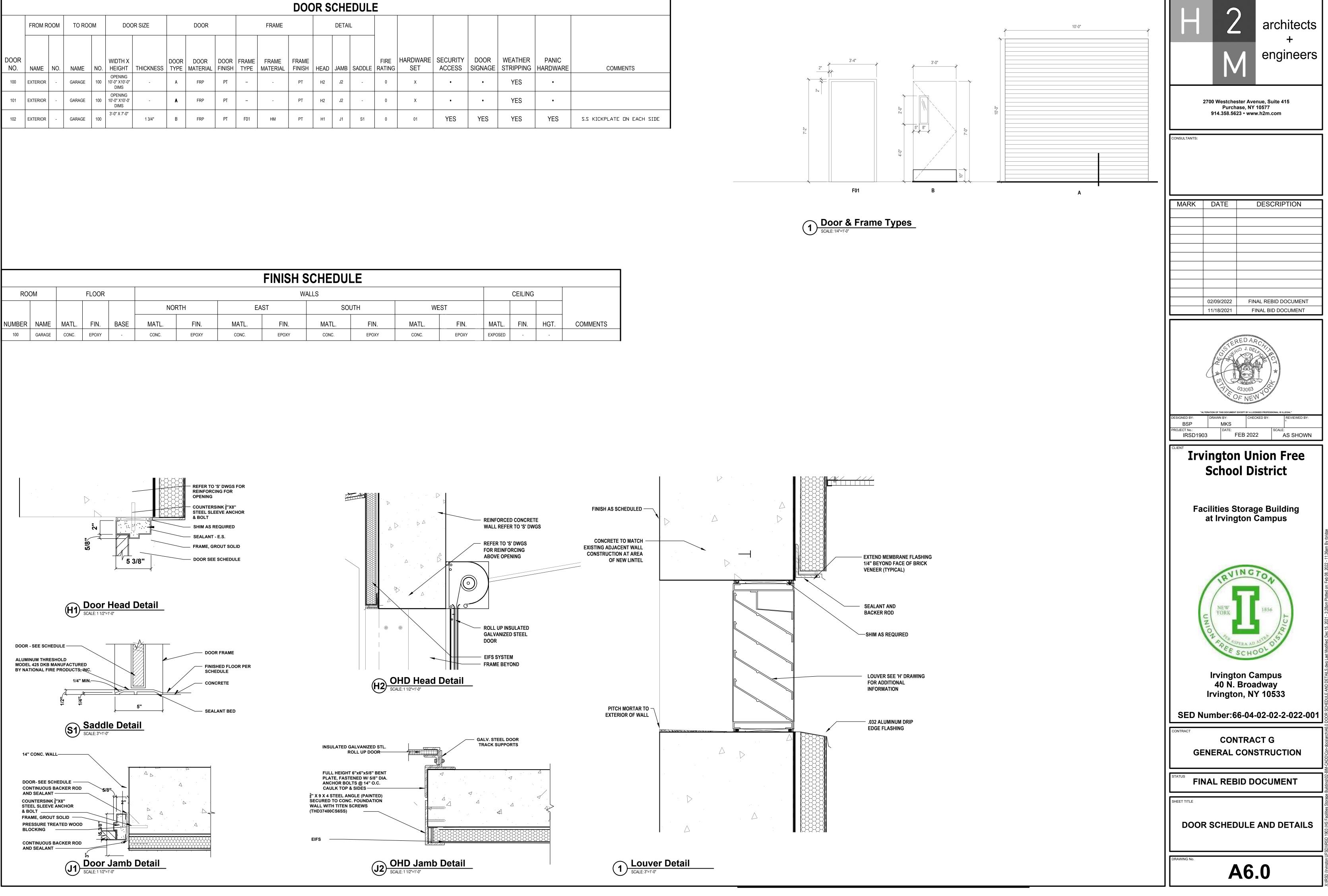
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		CEILING		
ST				
FIN.	MATL.	FIN.	HGT.	COMMENTS
EPOXY	EXPOSED	-	-	

SECURITY ACCESS	DOOR SIGNAGE	WEATHER STRIPPING	PANIC HARDWARE	COMMENTS
٠	•	YES	•	
•	•	YES	•	
YES	YES	YES	YES	S.S KICKPLATE DN EACH SIDE

	/IATIONS
AFF	ABOVE FINISHED FLOOR
BCU	BUILDING CONTROL UNIT
BTU	BRITISH THERMAL UNIT
CFH	
CFM	
CLG	CEILING
COMM.	
(D)	
DB	DRY BULB
DCV	DEMAND CONTROLLED VENTILATION
DEG. F	DEGREES FAHRENHEIT
DIA	DIAMETER
DX	DIRECT EXPANSION
'E'	ELECTRICAL CONTRACTOR
(E)	EXISTING
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATING
ESP	EXTERNAL STATIC PRESSURE
FAI	FRESH AIR INTAKE
FD	FLOOR DRAIN
FLA	FULL LOAD AMPS
FT. H20	FEET OF WATER
'G'	GENERAL CONSTRUCTION CONTRACTOR
GPM	GALLONS PER MINUTE
GPH	GALLONS PER HOUR
H	HEIGHT
'H'	HVAC CONTRACTOR
HP IN.	HORSEPOWER
IN. W.C. (W.G.)	INCHES WATER COLUMN (WATER GAUGE)
KW	KILOWATTS
L	LENGTH
LAT	
LBS	POUNDS
LCD	LIQUID CRYSTAL DISPLAY
LDB	LEAVING DRY BULB TEMPERATURE
LPR	STEAM CONDENSATE RETURN
LPS	LOW PRESSURE STEAM
LWB	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
Μ	METER
MAX	MAXIMUM
MBH	1,000 BTU PER HOUR
MCA	
MIN	
MNF	
N.C.	
N.O.	NORMALLY OPEN
NFPA NPT	NATIONAL FIRE PROTECTION ASSOCIATION
NPT	NOT TO SCALE
0AI	OUTDOOR AIR INTAKE
OED	OPEN ENDED DUCT
'P'	PLUMBING CONTRACTOR
(P)	PROPOSED
PD	PRESSURE DROP
PSIG	LBS / SQUARE INCH (GAUGE PRESSURE)
RD	ROOF DRAIN
RPM	REVOLUTIONS PER MINUTE
	REDUCED PRESSURE ZONE
RPZ	
	SUPPLY AIR TEMPERATURE
RPZ	SUPPLY AIR TEMPERATURE SEASONAL ENERGY EFFICIENCY RATING
RPZ SAT	
RPZ SAT SEER	SEASONAL ENERGY EFFICIENCY RATING
RPZ SAT SEER TEMP	SEASONAL ENERGY EFFICIENCY RATING TEMPERATURE
RPZ SAT SEER TEMP TG	SEASONAL ENERGY EFFICIENCY RATING TEMPERATURE TRANSFER GRILLE
RPZ SAT SEER TEMP TG TYP	SEASONAL ENERGY EFFICIENCY RATING TEMPERATURE TRANSFER GRILLE TYPICAL
RPZ SAT SEER TEMP TG TYP VFD	SEASONAL ENERGY EFFICIENCY RATING TEMPERATURE TRANSFER GRILLE TYPICAL VARIABLE FREQUENCY DRIVE

DUCTWORK LEGEND			PIPING LEGEND		
SYMBOL	ABBREV	DESCRIPTION	SYMBOL	ABBREV	DESCRIPTION
<u> </u>		DUCTWORK BRANCH CONNECTION			NEW WORK
			<u>с </u>		PIPING DOWN/ PIPING UP
	VD	VOLUME DAMPER	— −[BALL VALVE WITH HOSE END CONNECTION
	CD	ROUND FACE SUPPLY DIFFUSER		TH	THERMOMETER
	SEE AIR DEVICE SCHEDULE	SIDEWALL SUPPLY, RETURN OR EXHAUST GRILLE/REGISTER			UNION
	SEE AIR DEVICE SCHEDULE	SQUARE FACE SUPPLY DIFFUSER		FPC	FLEXIBLE PIPE CONNECTION DIRECTION OF FLOW
	SEE AIR DEVICE SCHEDULE	BOTTOM RETURN OR EXHAUST GRILLE/REGISTER		PSR	PRESSURE SAFETY AND RELIEF VALVE
	FC	FLEXIBLE CONNECTION		PRV	PRESSURE REDUCING VALVE
				BV	BALL VALVE
		TURNING VANES	ēj k	BA	BALANCING VALVE
		RECTANGULAR TO ROUND TRANSITION	li —₫—	BFV	BUTTERFLY VALVE
	AL	ACOUSTICAL LINING			TEMPERATURE SENSOR WITH THERMOWELL
				GA	GATE VALVE
		END CAP		GB	GLOBE VALVE
	SEE AIR DEVICE SCHEDULE	SUPPLY DIFFUSER WITH DIRECTIONAL FLOW (SOLID HATCH INDICATES BLANK OFF PANEL)	<u> </u>	AV	AUTOMATIC AIR VENT
		SUPPLY DUCT DROP (TURN DOWN)		CV	2-WAY ELECTRONIC CONTROL VALVE
		RETURN/EXHAUST DUCT DROP (TURN DOWN)		cv cv	3-WAY ELECTRONIC CONTROL VALVE
		SUPPLY DUCT RISE			3-WAY PNEUMATIC CONTROL VALVE
		RETURN/EXHAUST DUCT RISE		STR	STRAINER WITH BLOW OFF VALVE WITH HOSE END CONNECTION
			⊕ ,∑	FD	FLOOR DRAIN
DSD	DSD	DUCT SMOKE DETECTOR	S		AIR SEPARATOR
M	MD	MOTORIZED DAMPER WITH ACTUATOR			STEAM TRAPS (INDICATE TYPE)
	AD	ACCESS DOOR		СН	CHECK VALVE
	FD/AD	FIRE DAMPER WITH ACCESS DOOR			PRESSURE GAUGE WITH GAUGE COCK
	FSD/AD	FIRE SMOKE DAMPER WITH ACCESS DOOR		CO	REDUCER CLEANOUT END CAP
		FAN			PIPE GUIDE
			——————————————————————————————————————		PIPE ANCHOR
· <u>/////</u> ,		WORK TO BE REMOVED			CAPPED PIPE
•		POINT OF DISCONNECTION FROM EXISTING			PUMP
		POINT OF CONNECTION TO EXISTING	·/////		WORK TO BE REMOVED
			—		POINT OF DISCONNECTION FROM EXISTING
			•		POINT OF CONNECTION TO EXISTING
SYMBOL	ABBREV	DESCRIPTION	┸┤╱┝┸	TDV	TRIPLE DUTY VALVE
C		CARBON MONOXIDE SENSOR			1

CONTROLS LEGEND		
SYMBOL	ABBREV	DESCRIPTION
C		CARBON MONOXIDE SENSOR
T		THERMOSTAT
3		DIGITAL TEMPERATURE SENSOR
H		HUMIDITY SENSOR
C 2		CARBON DIOXIDE SENSOR
P		PRESSURE SENSOR

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2.	THE SITE AFF CON THE
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19.	INTE WIT PRC SEC
20.	PRC EXF UNI APF
21.	INS ⁻ SPA
<u>LE(</u>	GENI

GENERAL NOTES

1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.

E CONTRACTOR, BY PRESENTING THEIR BID FOR THE WORK, REPRESENTS THAT HE/SHE HAS INSPECTED THE E AND IS COMPLETELY FAMILIAR WITH THE SCOPE OF WORK AND ALL FIELD CONDITIONS RELATED TO, AND FECTING THE WORK AND ITS PERFORMANCE. EXCEPTIONS AFFECTING THE WORK AND ITS PERFORMANCE, OR ONFLICTS BETWEEN FIELD CONDITIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO E SUBMISSION OF BIDS.

RFORM ALL WORK IN ACCORDANCE WITH THE PLUMBING CODE, FIRE CODE, MECHANICAL CODE, ENERGY DNSERVATION CONSTRUCTION CODE, AND FUEL GAS CODE OF NEW YORK STATE AND THE REQUIREMENTS OF E LOCAL AUTHORITIES HAVING JURISDICTION.

DMPLY WITH THE NATIONAL ELECTRIC CODE AND THE REQUIREMENTS OF DIVISION 26 FOR ALL ELECTRICAL STALLATIONS.

RE STOP ALL OPENINGS IN FIRE RATED CONSTRUCTION FOR PIPING, DUCTWORK, CONDUIT, ETC. PROVIDE FIRE MPERS AND ACCESS DOORS IN ALL OPENINGS IN FIRE RATED FLOORS, PARTITIONS, AND WALLS FOR JCTWORK AS PER THE MECHANICAL CODE OF NEW YORK STATE. (SEE ARCHITECTURAL DRAWINGS FOR CATIONS OF FIRE RATED CONSTRUCTION.)

) NOT SCALE DRAWINGS. DRAWINGS FOR HVAC WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY COPE AND GENERAL ARRANGEMENT ONLY. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR ALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. DORDINATE CONTRACT DOCUMENTS, PROJECT REQUIREMENTS, WORK OF OTHERS, AND EQUIPMENT AND TERIALS PURCHASED WITH FIELD DIMENSIONS. INSTALL ALL EQUIPMENT AS PER MANUFACTURER'S QUIREMENTS TO PROVIDE PROPER CLEARANCE FOR INSTALLATION, OPERATION, AND MAINTENANCE. DNTRACTOR'S INTENDED MEANS AND METHODS OF INSTALLATION AND CONTRACTOR'S FABRICATED ITEMS IALL ENSURE A PROPER "FIT" AND INSTALLATION. BRING ANY CONFLICTS TO THE ATTENTION OF THE CHITECT/ENGINEER DURING THE SUBMITTAL PHASE FOR RESOLUTION PRIOR TO PURCHASING ANY UIPMENT.

AINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS. WHERE HEADROOM AND SPACE DNDITIONS APPEAR INADEQUATE, NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH STALLATION. MAINTAIN A MINIMUM OF 6'-8" CLEARANCE FROM FINISHED FLOOR TO UNDERSIDE OF PIPES, JCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.

ELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION. MAKE DDIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR OPER EXECUTION OF THE WORK. OBTAIN THE APPROVAL OF THE ARCHITECT/ENGINEER FOR MODIFICATIONS.

OVIDE PRODUCTS OF ONE MANUFACTURER WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF MATERIAL OR QUIPMENT IS REQUIRED.

STALL ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, DNTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS. REFER TO DETAILS FOR ADDITIONAL PING AND EQUIPMENT INSTALLATION REQUIREMENTS.

CATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH RAIGHT SECTION OF PIPE OR DUCT UP- AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER TO ISURE MANUFACTURER CERTIFIED ACCURACY.

DORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. COORDINATE AND OVIDE ALL PIPING AND DUCT TRANSITIONS REQUIRED FOR FINAL CONNECTIONS TO EQUIPMENT.

ORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS WITH ALL OTHER TRADES. ORDINATE ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURE WITH GENERAL CONSTRUCTION

OORDINATE INSTALLATION OF SUPPLY AND RETURN GRILLES WITH INSTALLATION OF FINISHED CEILINGS.

DMPLETE ALL PRESSURE TESTS BEFORE ANY MECHANICAL EQUIPMENT, DUCTWORK, OR PIPING INSULATION IS PLIED.

STING, ADJUSTING, AND BALANCING AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL ABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). PERFORM ALL TESTING, ADJUSTING, AND LANCING IN ACCORDANCE WITH THE SPECIFICATIONS.

AKE ALL ATTACHMENTS TO JOISTS, TRUSSES, OR JOIST GIRDERS AT PANEL POINTS. PROVIDE BEAM CLAMPS ETING MSS STANDARDS. THE USE OF C-CLAMPS IS NOT PERMITTED.

OVIDE CONCRETE PADS A MINIMUM OF 6 INCHES HIGH FOR ALL FLOOR MOUNTED EQUIPMENT. EXTEND PAD 4 CHES BEYOND THE EQUIPMENT ON ALL SIDES.

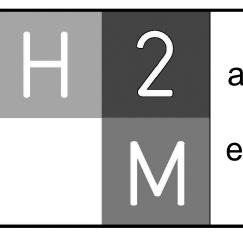
ERNALLY LINE ALL SUPPLY AND RETURN DUCTWORK WITHIN 20 FEET UPSTREAM AND DOWNSTREAM OF FANS TH 1" THICK INSULATION. INTERNALLY LINED DUCTWORK MEETING THIS REQUIREMENT SHALL ALSO BE OVIDED WITH EXTERNALLY APPLIED INSULATION AS REQUIRED BY THE SPECIFICATIONS. SEE SPECIFICATION CTION 230719 FOR ADDITIONAL REQUIREMENTS.

OVIDE TRAPPED DRAIN PIPING FROM DRAIN PANS OF ALL COOLING COILS, FANS, AND OTHER ACTIVE DRAINS POSED TO SYSTEM AIR STREAM. PROVIDE TRAP AT CONNECTION, WATER SEAL DEPTH 1 INCH GREATER THAN IT OPERATING PRESSURE. DIRECT DRAINS TO NEAREST FLOOR DRAIN, MOP SINK, OR OTHER LOCATION PROVED BY THE ARCHITECT/ENGINEER.

STALL PIPING, DUCTWORK, AND CONDUIT CONCEALED IN AREAS HAVING HUNG CEILINGS AND/OR FURRED PACES UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

LEGENDS/ABBREVIATIONS NOTES

1. ABBREVIATIONS AND SYMBOLS ON THIS SHEET DO NOT DEFINE THE SCOPE OF WORK.

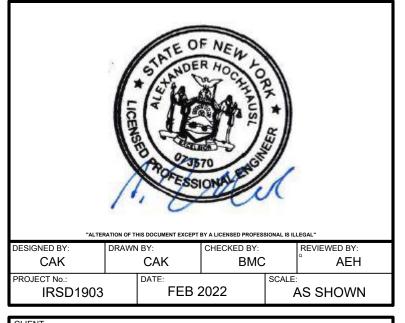


architects engineers

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Irvington Union Free School District

Facilities Storage Building at Irvington Campus



Irvington Campus 40 N. Broadway Irvington, NY 10533

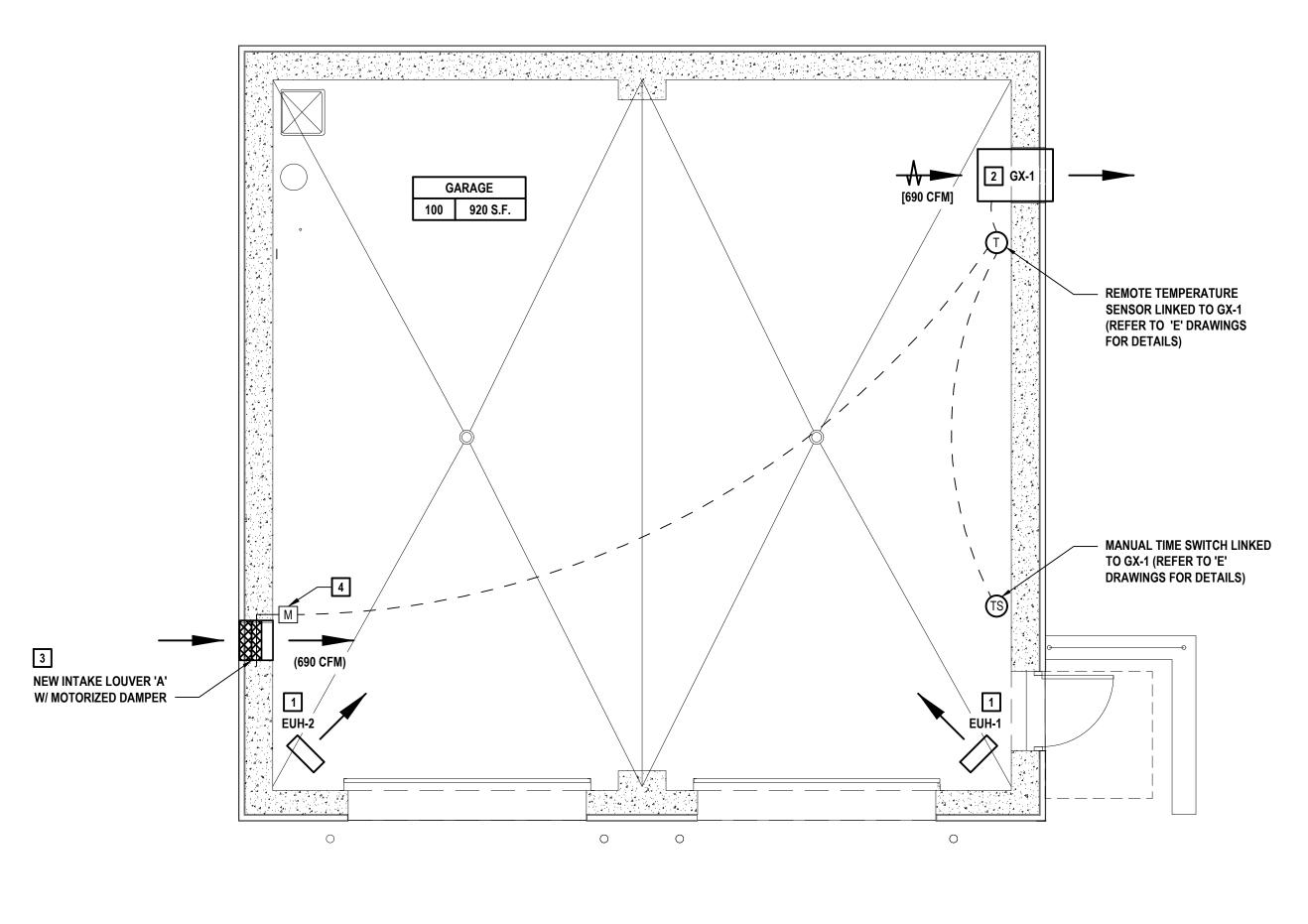
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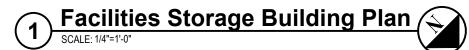
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FINAL REBID DOCUMENT

HVAC HVAC LEGENDS, SYMBOLS, ABBREVIATIONS, AND **GENERAL NOTES**

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UNIT HEA	NIT HEATERS															
		AREA SERVED										E	BASIS OF DESI	GN INFORMATIC	N	
	LOCATION		FAN DATA			AIR DATA		DATA	HEA	TING COIL	DATA					
EQUIPMENT NO.									ELECTRIC DATA					NOMINAL		
			FLOW (CFM)	HP	VOLTS/ PHASE	TOTAL CAPACITY (MBH)	TEMP. CHANGE (DEG. F)	THROW (FT.)	VOLTS/ PHASE	TOTAL KW	AMPS	MNF MODEL NO.	NOMINAL DIMENSIONS L x W x H	OPERATING WEIGHT (LBS.)	REMARKS	
EUH-1, 2	SEE PLANS	STORAGE AREA	650	1/30	208/1	25.6	37	18	208/1	7.5	36	QMARK	MUH-07-8	19 x 7.5 x 21.75	38	1-4

NOTES:

1. PROVIDE AND INSTALL MANUFACTURER SPECIFIED MOUNTING BRACKET

2. SINGLE POLE INTERNAL THERMOSTAT ACCESSORY (UHMT1)

3. 3-POLE POWER DISCONNECT SWITCH (MPDS60) 4. OUTLET MESH (BIRD SCREEN)

FANS													
EQUIPMENT NO.			PERFOR	RMANCE/CONSTR		EMENTS		BASIS OF DESIGI					
	LOCATION	SYSTEM SERVED	CFM	EXT S. P. (IN. W.C.)	FAN/MOTOR RPM	BHP	MNF	MODEL NO.	NOMINAL DIMENSIONL X W. x H	Nominal Operating Weight	ELECTRICAL DATA		REMARKS
										(LBS.)	VOLTS/PHASE	MOTOR HP	
GX-1	SEE PLANS	STORAGE AREA	690	0.3	776	0.18	GREENHECK	SBE-1H20-4	38 x 26.25 x 26.25	152	115/1	1/4	1-4

NOTES:

LONG WALL HOUSING WITH OSHA GUARD
 NEMA 3R POWERED DISCONNECT SWITCH
 DAMPER MOUNTED WD-320-PB-22X22

SINGLE POINT POWER CONNECTION

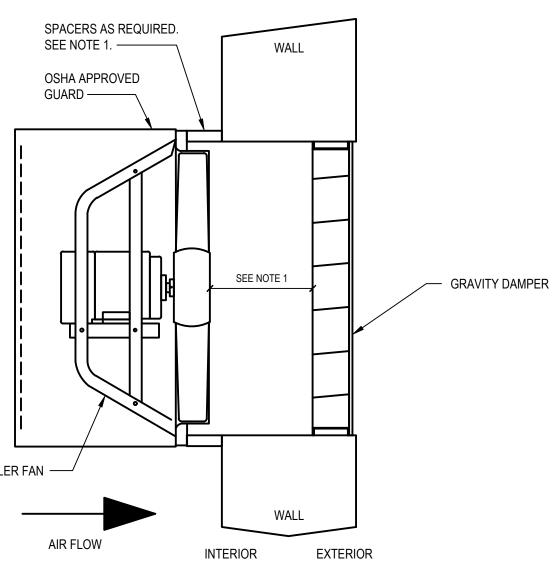
8. DAMPER ACTUATOR (MP-310)

AIR OUTLETS													
DESIGNATION	ТҮРЕ	TYPE BASIS OF DESIGN: BASIS OF MANUFACTURER MODE		NOM. DIMENSIONS	FREE AREA (%)	VOLUME (CFM)	FREE AREA VELOCITY (FPM)	PRESSURE DROP (IN. W.G.)	REMARKS				
Α	INTAKE LOUVER	GREENHECK	ESD-635HP	20 x 20 x 6	42.5	690	566	0.05	1-3				

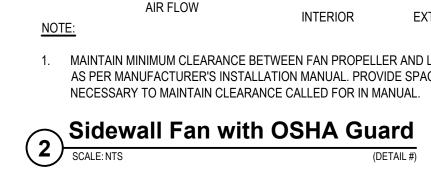
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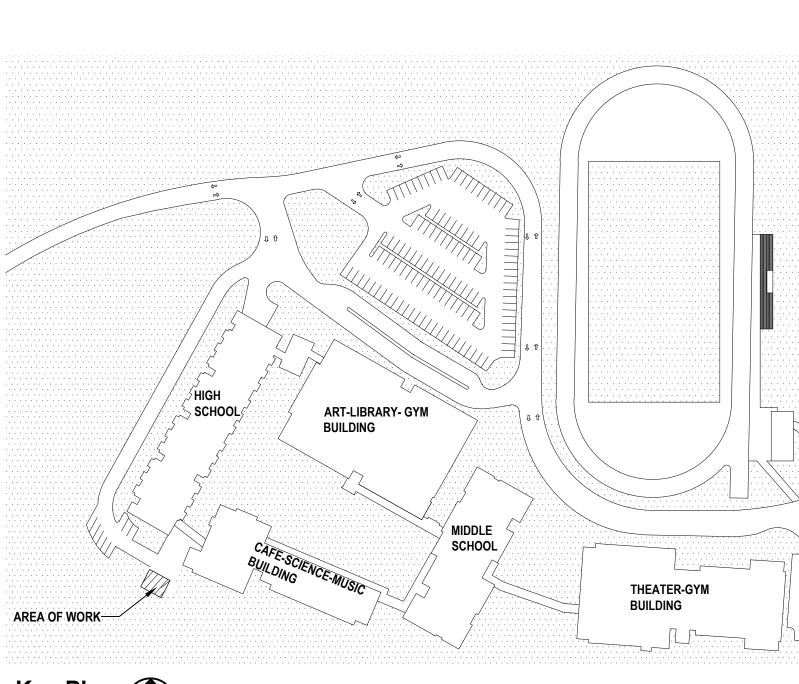
(20x20) VCD-23 LOW LEAKAGE 3V BLADE VOLUME CONTROL DAMPER
 HONEYWELL MS4103F1225 ACTUATOR
 GREENHECK POC RETAINING ANGLE

G	ENERAL NO
Α.	THESE DRAWINGS SEA ONE PORTION OF THE BETWEEN THESE DRA
В.	ALL WORK SHALL BE
C.	REFER TO SEQUENCE
D.	ALL WORK SHALL BE
E.	DO NOT SCALE DRAW
F.	COORDINATE FINAL LO
G.	COORDINATE NEW WO
K	EY WORK N
1	PROVIDE AND INSTALI ELECTRIC UNIT HEATE
2	PROVIDE AND INSTALI SIDEWALL EXHAUST F ARCHITECTURAL / STF
3	PROVIDE AND INSTALI SIDEWALL INTAKE LO ARCHITECTURAL / STF



PROPELLER FAN -----







OTES

- ERVE AS A GRAPHICAL REPRESENTATION OF THE INTENDED SCOPE OF WORK AND CONSTITUTE E CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AWINGS AND THE SPECIFICATIONS.
- E IN COMPLIANCE WITH ALL FEDERAL AND NEW YORK STATE APPLICABLE BUILDING CODE.
- E OF OPERATIONS FOR DETAILS REGARDING EXHAUST FAN (GX-1) CONTROLS.
- E IN COMPLIANCE WITH MANUFACTURER'S CLEARANCE REQUIREMENTS.
- WINGS. LINE WORK IS SHOWN FOR REFERENCE ONLY.
- LOCATIONS OF SENSORS / SWITCHES WITH OWNER.
- ORK WITH OTHER TRADES.

NOTES

ALL NEW ELECTRIC UNIT HEATER EUH-1, 2 WITH APPROPRIATE MOUNTING HARDWARE. MOUNT NEW TER AS PER MANUFACTURER'S SPECIFICATIONS.

LL NEW SIDEWALL EXHAUST FAN GX-1 WITH APPROPRIATE MOUNTING HARDWARE. MOUNT NEW FAN AS PER MANUFACTURER'S SPECIFICATIONS. COORDINATE FINAL HEIGHT WITH TRUCTURAL PLANS, AND EXISTING SLOPE OF GRADE.

ALL NEW SIDEWALL INTAKE LOUVER 'A' WITH APPROPRIATE MOUNTING HARDWARE. MOUNT NEW OUVER AS PER MANUFACTURER'S SPECIFICATIONS. COORDINATE FINAL HEIGHT WITH ARCHITECTURAL / STRUCTURAL PLANS, AND EXISTING SLOPE OF GRADE.

4 NEW MOTORIZED DAMPER SHALL BE INTERLOCKED WITH NEW EXHAUST FAN GX-1. DAMPER SHALL OPEN WHEN GX-1 ACTIVATES (REFER TO SPECIFICATIONS AND ELECTRICAL DRAWINGS FOR DETAILS).

1. MAINTAIN MINIMUM CLEARANCE BETWEEN FAN PROPELLER AND LOUVER AS PER MANUFACTURER'S INSTALLATION MANUAL. PROVIDE SPACERS AS NECESSARY TO MAINTAIN CLEARANCE CALLED FOR IN MANUAL.

Η	2		architects										
	N	1	engineers										
2700 Westchester Avenue, Suite 415 Purchase, NY 10577 914.358.5623 - www.h2m.com													
CONSULTANTS:													
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DRAWING No.	Η	1.0											

	SYMBOLS LIST	Γ					
LEGE	END		ABBREVIATIONS				
SYMBOL	DESCRIPTION	AFF	ABOVE FINISHED FLOOR				
		BTU	BRITISH THERMAL UNIT				
· · · · ·	PIPING UP	BTUH	BTU PER HOUR				
(PIPING DOWN	CLG	CEILING				
		СО	CLEAN OUT				
	REDUCER	CODP	CLEAN OUT DECK PLATE				
	CLEANOUT	COWP	CLEAN OUT WALL PLATE				
,		CW	COLD WATER				
\odot	CLEANOUT DECKPLATE	(D)	DEMOLISH				
7	CAPPED PIPE	DEG. F	° FAHRENHEIT				
	-	DIA	DIAMETER				
\square	METER	DN (E)	DOWN				
O	FLOOR DRAIN	(⊏) EA	EACH				
		FAI	FRESH AIR INTAKE				
$\langle \rangle$	AQUASTAT	FD	FLOOR DRAIN				
₩ ~~ 1	FROST FREE HOSE BIBB	G	GAS				
		'GC'	GENERAL CONSTRUCTION CONTRACTOR				
	PUMP	GPM	GALLONS PER MINUTE				
- <u>+</u> -	STRAINER	GPH	GALLONS PER HOUR				
· `Y	SIRAINER	· 'H'	HVAC CONTRACTOR				
	UNION	HP	HORSEPOWER				
		HWR	HOT WATER RETURN				
	THERMOSTATIC MIXING VALVE	HWS	HOT WATER SUPPLY				
kb	BALANCING VALVE (BV)	IN.	INCHES				
— A —	GLOBE VALVE (GLV)	IN. W.C. (W.G.)	INCHES WATER COLUMN (WATER GAUGE)				
	CHECK VALVE	кw	KILOWATTS				
		LBS	POUNDS				
—Å—	GAS COCK	м	METER				
_7	BALL VALVE (BV)	MAX	MAXIMUM				
	DALL VALVE (DV)	MIN	МІЛІМИМ				
	GATE VALVE (GV)	NTS	NOT TO SCALE				
		OD	OUTER DIAMETER				
	COLD WATER (CW)	(P)	PROPOSED				
	HOT WATER (HW)	'P'	PLUMBING CONTRACTOR				
		PD	PRESSURE DROP				
	HOT WATER RETURN (HWR)	RD	ROOF DRAIN				
	WASTE PIPING (W,S,OW)	RPM	REVOLUTIONS PER MINUTE				
		RPZ	REDUCED PRESSURE ZONE				
	BELOW SLAB WASTE PIPING		SANITARY				
	VENT PIPING (V)	ST					
G	GAS PIPING (G)	TEMP TYP	TEMPERATURE				
		TWS	TEMPERED WATER SUPPLY				
· <u>/////</u> .	PIPING / EQUIPMENT TO BE REMOVED	TWR	TEMPERED WATER RETURN				
	POINT OF CONNECTION	V	VENT				
		VTR	VENT THROUGH ROOF				
	POINT OF DISCONNECTION	W	WASTE				

APPLICABLE CODES

• 2020 NEW YORK STATE RESIDENTIAL CODE (NYSRC) 1ST PRINTING (INCLUDES PLUMBING, MECHANICAL, FUEL GAS, AND

ENERGY CONSERVATION) • 2020 NEW YORK STATE BUILDING CODE (NYSBC) 1ST PRINTING

2020 NEW YORK STATE FIRE CODE (NYSFC) 1ST PRINTING

 2020 NEW YORK STATE PLUMBING CODE (NYSPC) 1ST PRINTING 2020 NEW YORK STATE FUEL GAS CODE (NYSFGC) 1ST PRINTING

2020 NEW YORK STATE MECHANICAL CODE (NYSMC) 1ST PRINTING

• 2020 NEW YORK STATE ENERGY CONSERVATION CODE (NYSECC) 1ST PRINTING

GENERAL PLUMBING NOTES

- OPERABLE PLUMBING SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
- OF BIDS.
- PERFORM ALL WORK IN ACCORDANCE WITH THE 2020 NEW YORK STATE PLUMBING (NYSPC), FIRE (NYSFC), REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.
- INSTALLATIONS.
- APPLY FOR AND SECURE ALL REQUIRED PERMITS AND INSPECTIONS AND PAY ALL COSTS FOR THE SAME.
- 6. FIRE STOP ALL OPENINGS IN FIRE RATED CONSTRUCTION FOR PIPING, CONDUIT, ETC.
- FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE.
- MATERIALS PURCHASED WITH FIELD DIMENSIONS, MANUFACTURERS REQUIREMENTS FOR INSTALLATION, OPERATION, AND MAINTENANCE, CONTRACTORS INTENDED MEANS AND METHODS OF INSTALLATION AND ANY EQUIPMENT.
- EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
- WORK. OBTAIN THE APPROVAL OF THE ARCHITECT/ENGINEER FOR MODIFICATIONS.
- EQUIPMENT IS REQUIRED.
- AND EQUIPMENT INSTALLATION REQUIREMENTS.
- 13. LOCATE ALL TEMPERATURE, PRESSURE, AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH MANUFACTURER CERTIFIED ACCURACY.
- PROVIDE ALL PIPING TRANSITIONS REQUIRED FOR FINAL CONNECTIONS TO EQUIPMENT.
- 15. COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS WITH ALL OTHER TRADES.
- 16. COMPLETE ALL PRESSURE TESTS BEFORE ANY PLUMBING EQUIPMENT, OR PIPING INSULATION IS APPLIED.
- MEETING MSS STANDARDS. THE USE OF C-CLAMPS IS NOT PERMITTED.
- INCHES BEYOND THE EQUIPMENT ON ALL SIDES. OTHERWISE INDICATED ON THE DRAWINGS.
- FIXTURES IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- ARRESTERS, ETC. READILY ACCESSIBLE.
- JURISDICTION.
- 24. CORE DRILL ALL PENETRATIONS THROUGH CONCRETE FLOORS, WALLS, AND FOOTINGS.
- FOOTING PENETRATIONS.
- 27. COVER ALL COPPER PIPING BELOW SLAB WITH "ARMAFLEX" TYPE INSULATION.
- 28. SLOPE ALL VENT PIPING TO DRAIN BACK TO THE DRAINAGE SYSTEM.
- LOCAL AUTHORITIES HAVING JURISDICTION AND OBTAIN THEIR APPROVAL. 30. PROVIDE WATER HAMMER ARRESTORS AT ALL QUICK CLOSING FIXTURE VALVE LOCATIONS.
- FOR LOW LEAD.
- PROVISIONS.
- 33. ALL PIPING IN PLENUM SPACES SHALL BE CAST IRON FOR SANITARY, STORM, VENT SYSTEMS, AND COPPER PIPING FOR DOMESTIC SYSTEMS, AND STEEL PIPING FOR GAS SYSTEMS. NO PLASTIC PIPING ALLOWED.

ELECTRIC WATER HEATER [ASME]																
					EQUIPMENT SPECIFICATIONS				MINIMUM PERFORMANCE OF WATER HEATING (TABLE C404.2)							
EQUIPMENT NO.	LOCATION	SYSTEM SERVED	ELECTRIC POWER	WATER CONNECTION	MNF	MODEL NO.	NOMINAL DIMENSION (DIA X HEIGHT)	CAPACITY (GAL)	NOMINAL OPERATING WEIGHT (LBS.)	VOLTS / PHASE	EQUIPMENT TYPE	SIZE CATEGORY	SUBCATEGORY	PERFORMANCE REQUIRED	ENERGY FACTOR	REMARKS
WH-1	GARAGE	MOP SINK & EYEWASH	2 KW	3/4	AO SMITH	DEL-15	18" X 26"	15	185	208/1	WATER HEATER, ELECTRIC	< 12 KW	RESISTANCE	0.97-0.0013V EFFICIENCY	97 PERCENT	

PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND

THE CONTRACTOR, BY PRESENTING THEIR BID FOR THE WORK, REPRESENTS THAT HE/SHE HAS INSPECTED THE SITE AND IS COMPLETELY FAMILIAR WITH THE SCOPE OF WORK AND ALL FIELD CONDITIONS RELATED TO, AND AFFECTING THE WORK AND ITS PERFORMANCE. EXCEPTIONS AFFECTING THE WORK AND ITS PERFORMANCE, OR CONFLICTS BETWEEN FIELD CONDITIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE SUBMISSION

MECHANICAL (NYSMC), ENERGY CONSERVATION CONSTRUCTION (NYSECC), AND FUEL GAS (NYSFGC) CODE AND THE

COMPLY WITH THE NATIONAL ELECTRIC CODE AND THE REQUIREMENTS OF DIVISION 26 FOR ALL ELECTRICAL

DO NOT SCALE DRAWINGS. DRAWINGS FOR PLUMBING WORK ARE DIAGRAMMATIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED

COORDINATE CONTRACT DOCUMENTS PROJECT REQUIREMENTS, WORK OF OTHERS, AND EQUIPMENT AND CONTRACTORS FABRICATED ITEMS TO ENSURE A PROPER "FIT" AND INSTALLATION. BRING ANY CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER DURING THE SUBMITTAL PHASE FOR RESOLUTION PRIOR TO PURCHASING

MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS. WHERE HEADROOM AND SPACE CONDITIONS APPEAR INADEQUATE, NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH INSTALLATION. MAINTAIN A MINIMUM OF 6'-8" CLEARANCE FROM FINISHED FLOOR TO UNDERSIDE OF PIPES, CONDUITS, SUSPENDED

). FIELD VERIFY AND COORDINATE ALL PIPING DIMENSIONS BEFORE FABRICATION. MAKE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE

. PROVIDE PRODUCTS OF ONE MANUFACTURER WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF MATERIAL OR

12. INSTALL ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS. REFER TO DETAILS FOR ADDITIONAL PIPING

STRAIGHT SECTION OF PIPE UP- AND DOWNSTREAM AS RECOMMENDED BY THE MANUFACTURER TO ENSURE

. COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. COORDINATE AND

COORDINATE ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURE WITH GENERAL CONSTRUCTION WORK.

17. MAKE ALL ATTACHMENTS TO JOISTS, TRUSSES, OR JOIST GIRDERS AT PANEL POINTS. PROVIDE BEAM CLAMPS

18. PROVIDE CONCRETE PADS A MINIMUM OF 4 INCHES HIGH FOR ALL FLOOR MOUNTED EQUIPMENT. EXTEND PAD 4

19. INSTALL PIPING, AND CONDUIT CONCEALED IN AREAS HAVING HUNG CEILINGS AND/OR FURRED SPACES UNLESS

20. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL ACCESSIBLE FIXTURES. MOUNT ALL SUCH

21. PROVIDE ACCESS DOORS IN WALLS, PARTITIONS, AND CEILINGS AS REQUIRED TO MAKE VALVES, WATER HAMMER

22. ARRANGE FOR, COORDINATE, AND MAKE CONNECTION TO ALL SERVICES PROVIDED BY OTHERS. CONFORM TO ALL REQUIREMENTS APPLICABLE TO CONNECTIONS IMPOSED BY UTILITY COMPANIES AND AUTHORITIES HAVING

23. INSTALL FIXTURES AND EQUIPMENT WITH VALVES, UNIONS, ETC. TO ALLOW FOR EASE OF SERVICE AND/OR REMOVAL

25. INSTALL LINK SEAL TYPE PROTECTION FOR WATER RESISTANT SEALS AT ALL SLAB AND BELOW GROUND WALL

26. FURNISH AND INSTALL WATER PRESSURE REDUCING VALVE AND PRESSURE RELIEF VALVE IN ACCORDANCE WITH THE NEW YORK STATE PLUMBING CODE ON ALL INCOMING DOMESTIC WATER SYSTEMS IN EXCESS OF 80 P.S.I.G.

29. FLUSH AND DISINFECT ALL DOMESTIC POTABLE WATER PIPING AND TEST THE WATER IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE. PROVIDE CERTIFICATE OF PERFORMANCE AND LABORATORY TEST REPORT TO

31. ALL PIPING, VALVES AND FITTINGS USED FOR POTABLE WATER SHALL BE NSF 61/372 COMPLIANT AND BE TESTED

32. ANY PENETRATIONS THROUGH AIR BARRIER SHALL BE SEALED AS PER 2020 NYSECC RESIDENTIAL AND COMMERCIAL

PLUMBING	FIXTURES
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FIXTURE NO.	DESCRIPTION	c
		SI
EW-1	EMERGENCY EYEWASH STATION - BRADLEY S19-210B	
MS-1	MOP SINK - BASIN - MUSTEE MODEL 28CF (INCLUDES 24" PULL-OUT SPOUT AND LEVER HANDLES FAUCET	3
FD-1	FLOOR DRAIN - ZURN MODEL ZN415BZ-P	
HB-1	INTERIOR HOSE BIBB - ACORN MODEL 8121	3/
HB-2	FROST FREE WALL HYDRANT - JOSAM 71000 SERIES	3
NOTES:		

1. CHROME PLATE ALL DRAIN PIPE, FITTINGS, P-TRAPS AND SUPPLY LINES THAT ARE EXPOSED, LOCATED WITHIN VANITIES OR ACCESSIBLE 2. MINIMUM CONNECTION SIZES INDICATED ARE EQUIPMENT CONNECTION SIZES OR CODE MINIMUM SIZES, SEE PLANS AND DIAGRAMS FOR A

MIXING VALVE

ſ	EQUIPMENT		BASIS OF DESIGN INFORMATION					
	NO.	LOCATION	MAXIMUM PRESSURE RANGE	MINIMUM FLOW	MAXIMUM FLOW	MANUFACTUEF		
	MV-1	EYEWASH	125 PSI	1.5 GPM	60 GPM	BRADLEY		

OIL/WATER SEPARATOR

EQUIPMENT		BASIS OF DESIGN INFORMATION						
NO.	LOCATION	FLUID	FLOW (GPM)	INLET AND OUTLET SIZE	MANUFACTUER	MODEL		
OWS-1	GARAGE	OIL	100	3"	ZURN	Z1188		

EXPANSION TANKS [ASME CERTIFIED]

EQUIPMENT NO. LOCATION		PERFORM	PERFORMANCE/CONSTRUCTION REQUIREMENTS				
		SYSTEM	SYSTEM DATA				
	LOOKIION	SERVED	ESTIMATED VOLUME (GAL.)	MAX. OPERATING PRESS. RANGE (PSIG)	MAX. OPERATING TEMP. RANGE (DEG. F		
ET-1	GARAGE	MOP SINK & EYEWASH	2	150	200		

PUMP SCHEDULE

PUMP NO. LOCATION TYPE SERVICE TDH (FT) SP-1 GARAGE SIMPLEX SANITARY 70 13 1725 0.4 1											
SP-1 GARAGE SIMPLEX SANITARY 70 13 1725 0.4 1			TVDE					MOTO			
SP-1 GARAGE SIMPLEX /U 13 1/25 UA 1	PUMP NO.	LOCATION					RPM	HP (EA)	PHASE		
WASTE	SP-1	GARAGE	SIMPLEX	SANITARY WASTE	70	13	1725	0.4	1		

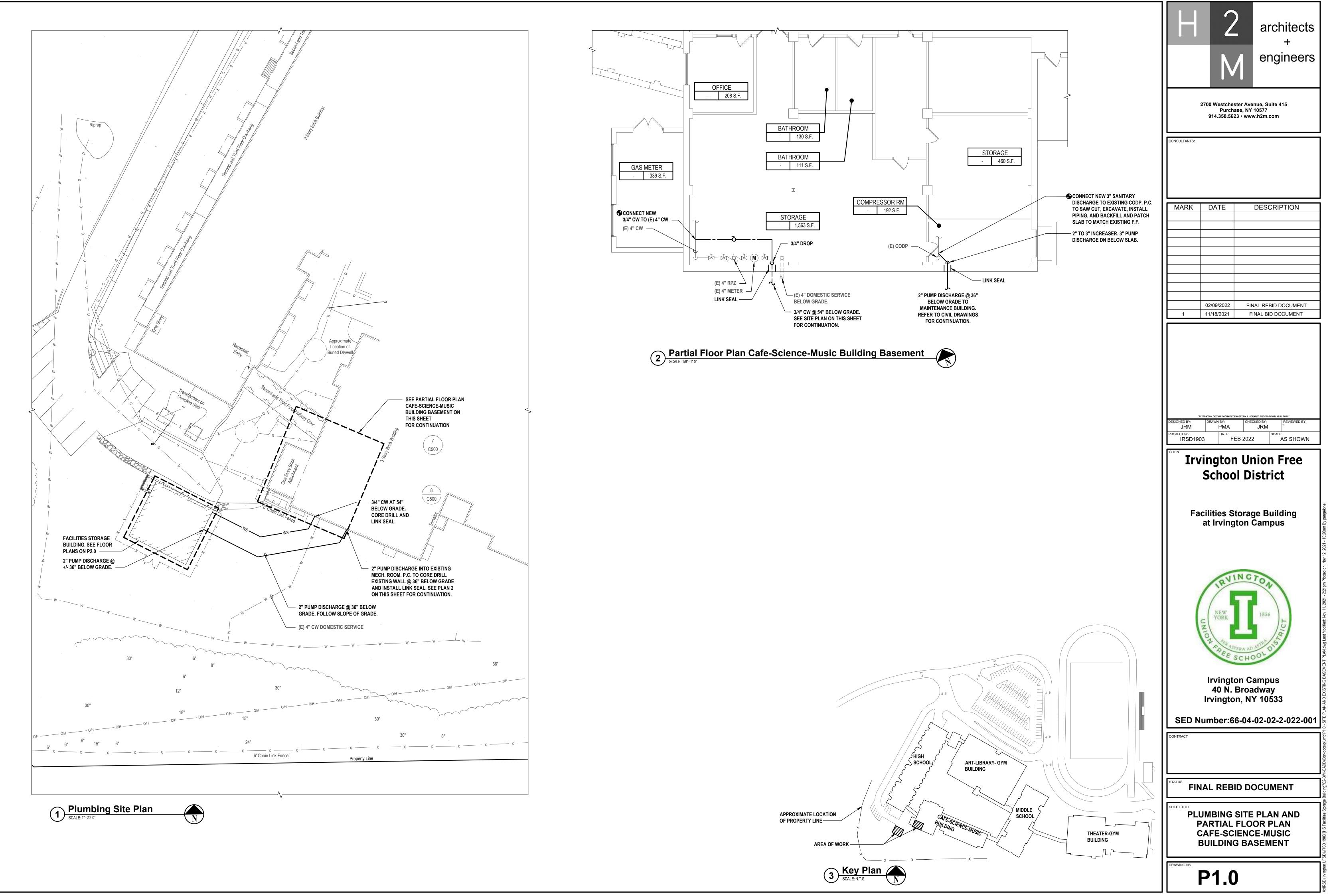
PLUMBING NOTES

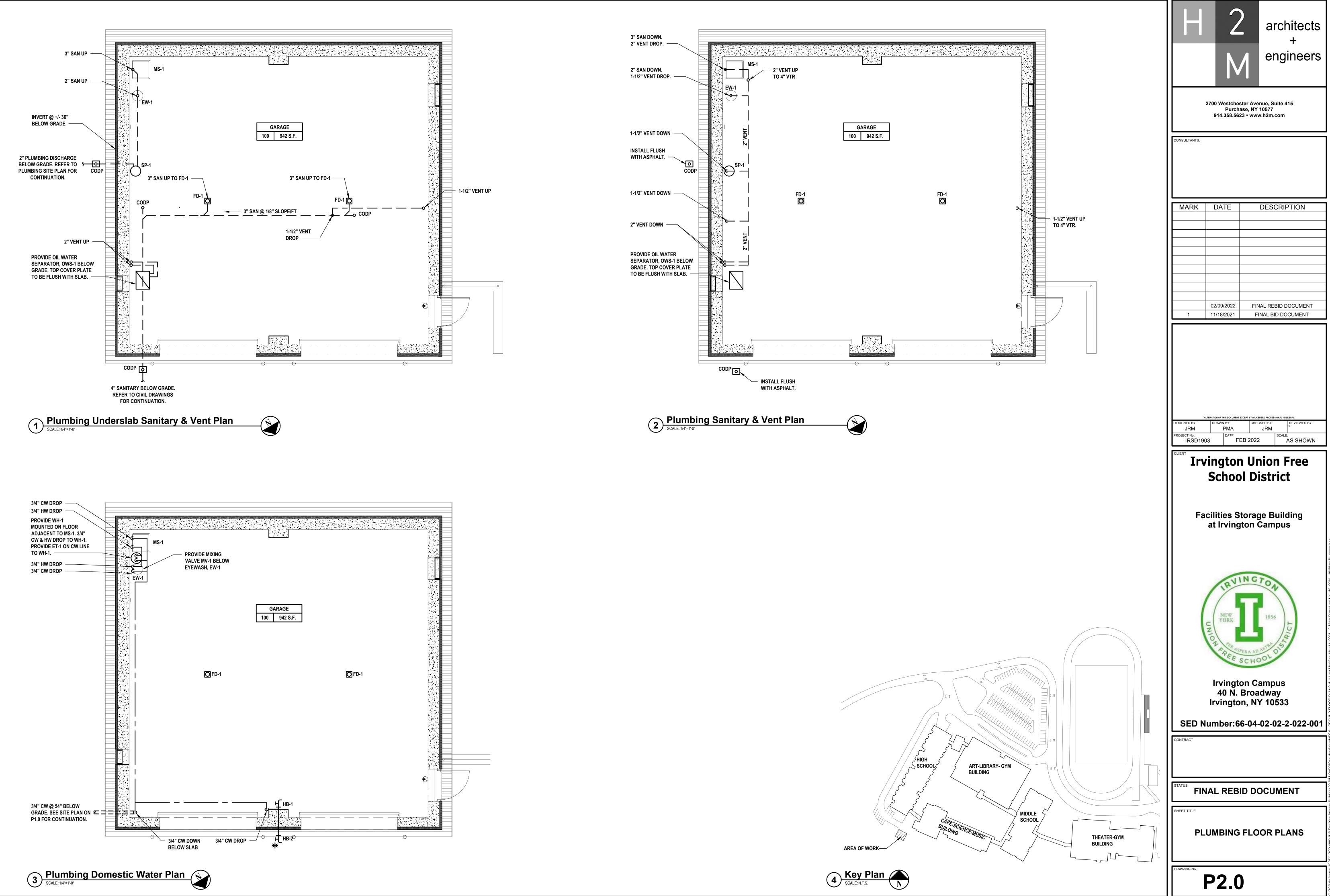
1. ALL FAUCETS, FITTINGS, AND VALVES MUST COMPLY WITH NSF 61 AND ANSI / NSF 372 FOR LOW LEAD PERCENTAGE

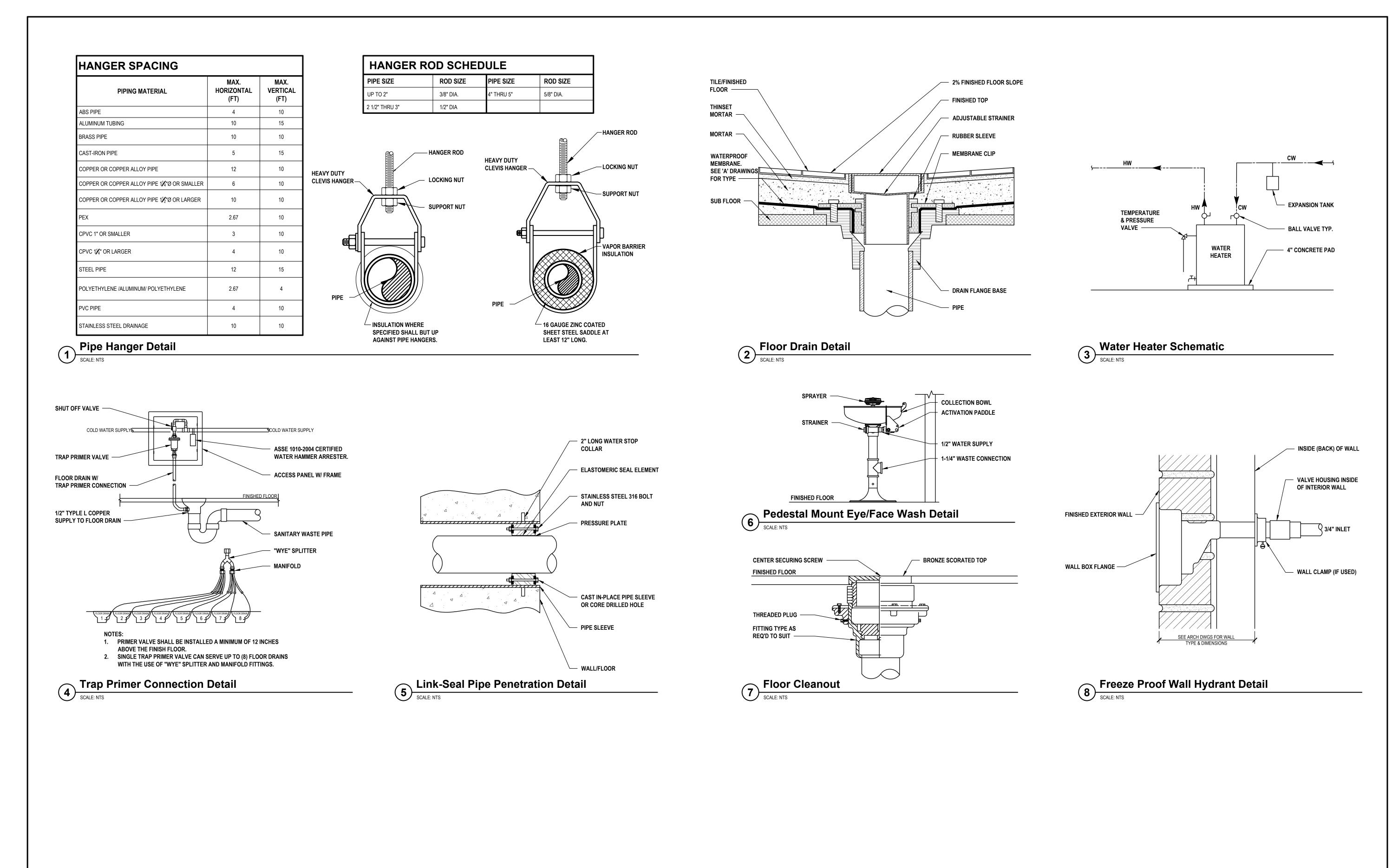
2. CONTRACTOR SHALL BE RESPONSIBLE TO DEMONSTRATE COMPLIANCE WITH THE NYS DEPARTMENT OF HEALTH LEAD IN WATER REGULATION (10 NYCRR 67-4).

3. AT THE CONCLUSION OF NEW PLUMBING WORK, THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE THE SERVICES OF A THIRD PARTY NYS LICENSED ENVIRONMENTAL TESTING LABORATORY TO PROVIDE LEAD TESTING AT ALL NEW LAVATORIES. SINKS, DRINKING FOUNTAINS AND ALL OTHER FIXTURES WHERE WATER MAY BE CONSUMED FOR DRINKING. TWO COPIES OF THE REPORT MUST BE SUBMITTED, ONE COPY TO THE ENGINEER AND THE OTHER ONE TO THE OWNER.

				NNECTION SIZES			
	E FU	HO	T WATER	WATER SIZE	DI	RAIN DFU	V
-		-	-	3/4	1-1/4	-	
3/4	2.25	3/4	2.25		3	2	2
-		-	-	-	3	2	1 1/2
3/4		-	-	-	-	-	
3/4		-	-		<u> </u>	-	-
	BINETS OR BEHINI		LOSETS				
				RE	MARKS		_
R	MODEL		DIMENSIONS / X H)				
	S19-2000EFX	3 1/2"	' X 7 5/8"	W/ CONNE	CTIONS TO (CW & HW.	
				REMARKS			
	NOMINAL DIMEI (L X W X ł	ł)					
	42-3/4" X 33-5/8"	' X 27"		O BE FLUSH WITH F			
	Г		EQUIPM	ENT SPECIFICATI	ONS		
	MNF	MODEL N	NO. DIME	NSION DIA. x H	WAT CONNE	ER	OPERATING WEIGHT
)							(LBS.)
	AMTROL	ST-5C		8" X 13"	3/4'		21
	ATA CYCLE	VOL			IARKS		
	60	115		LE GIANT MODEL #W REQUIRED FOR COVI			

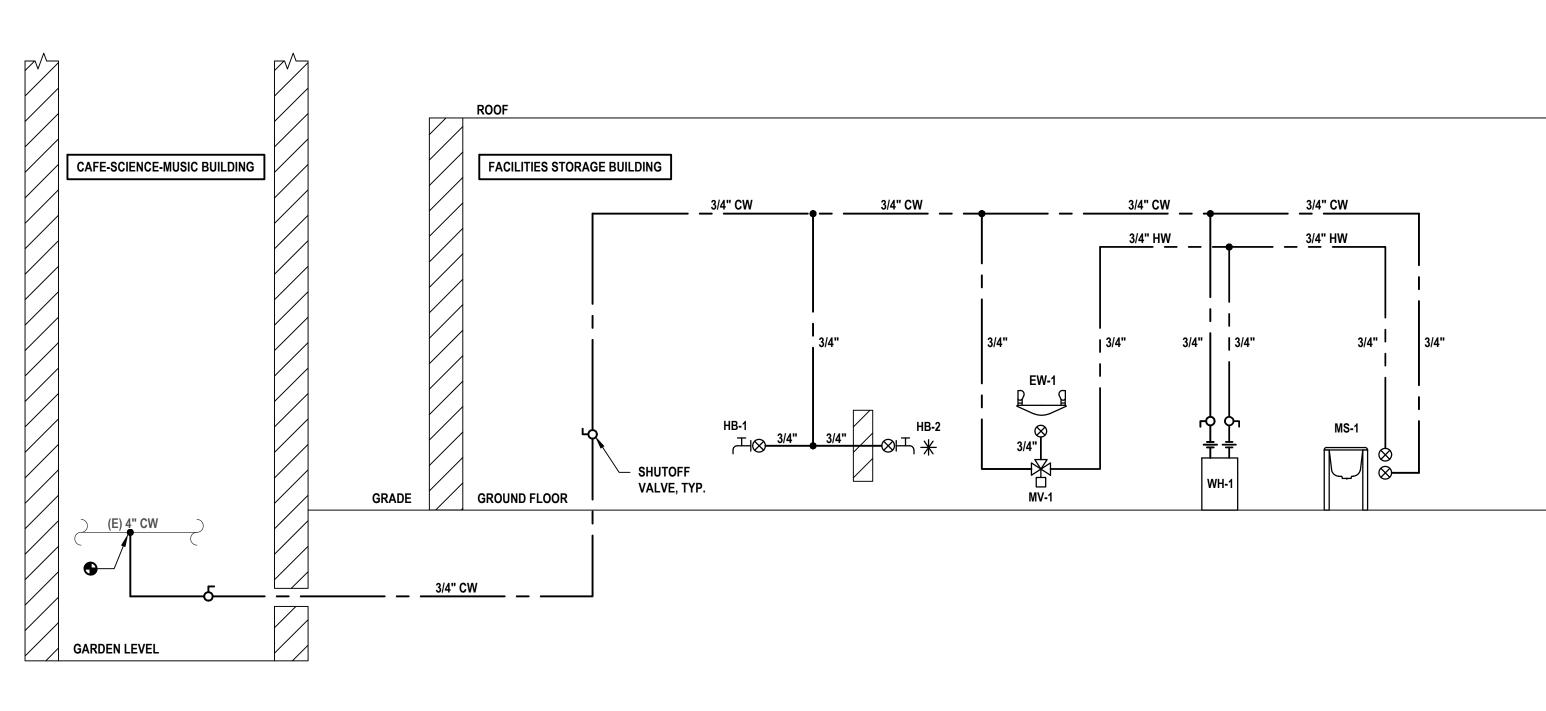




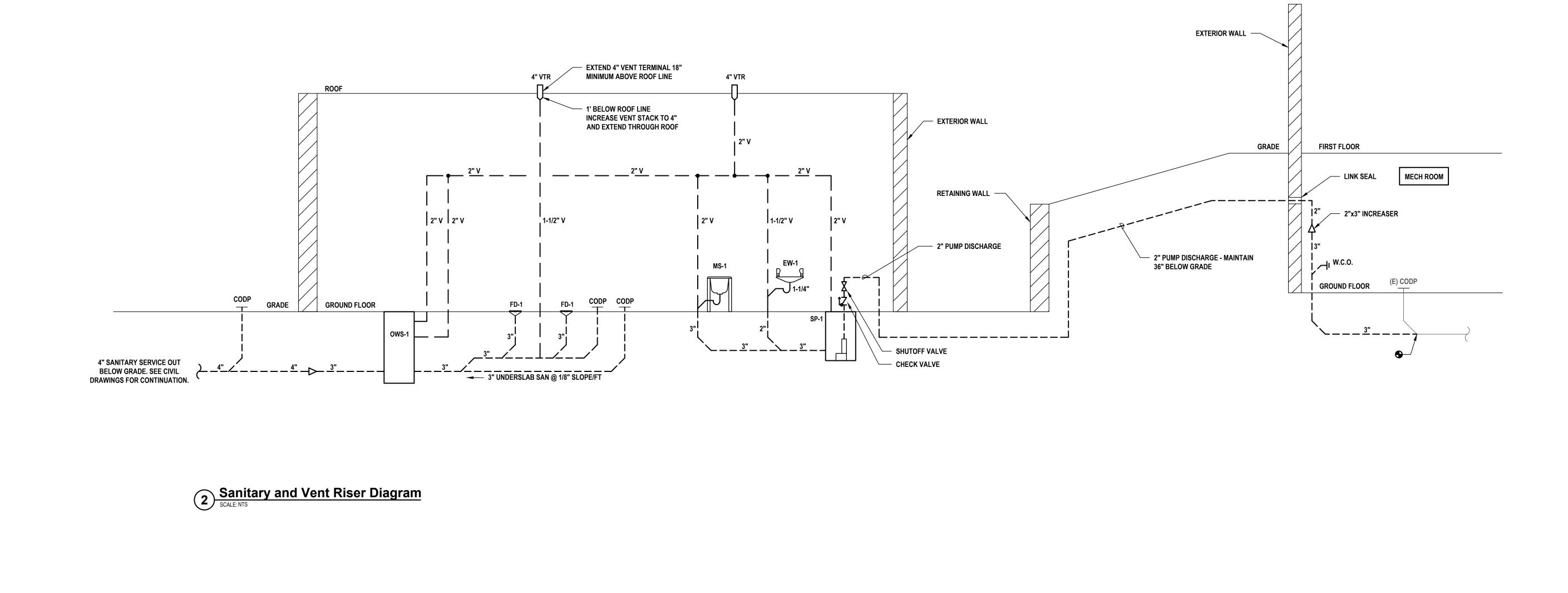


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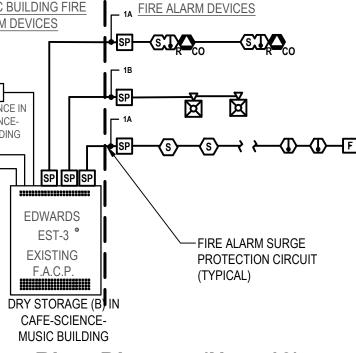




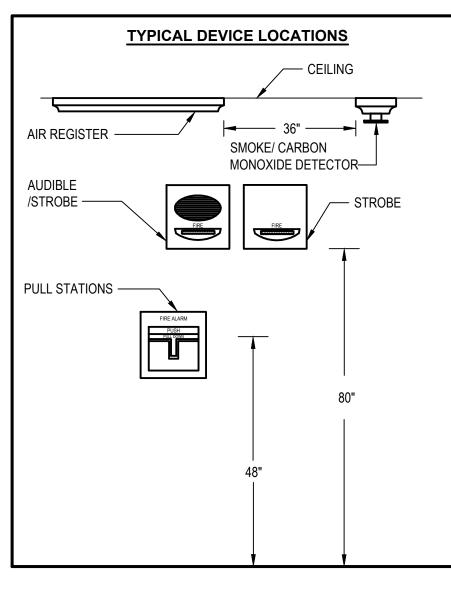


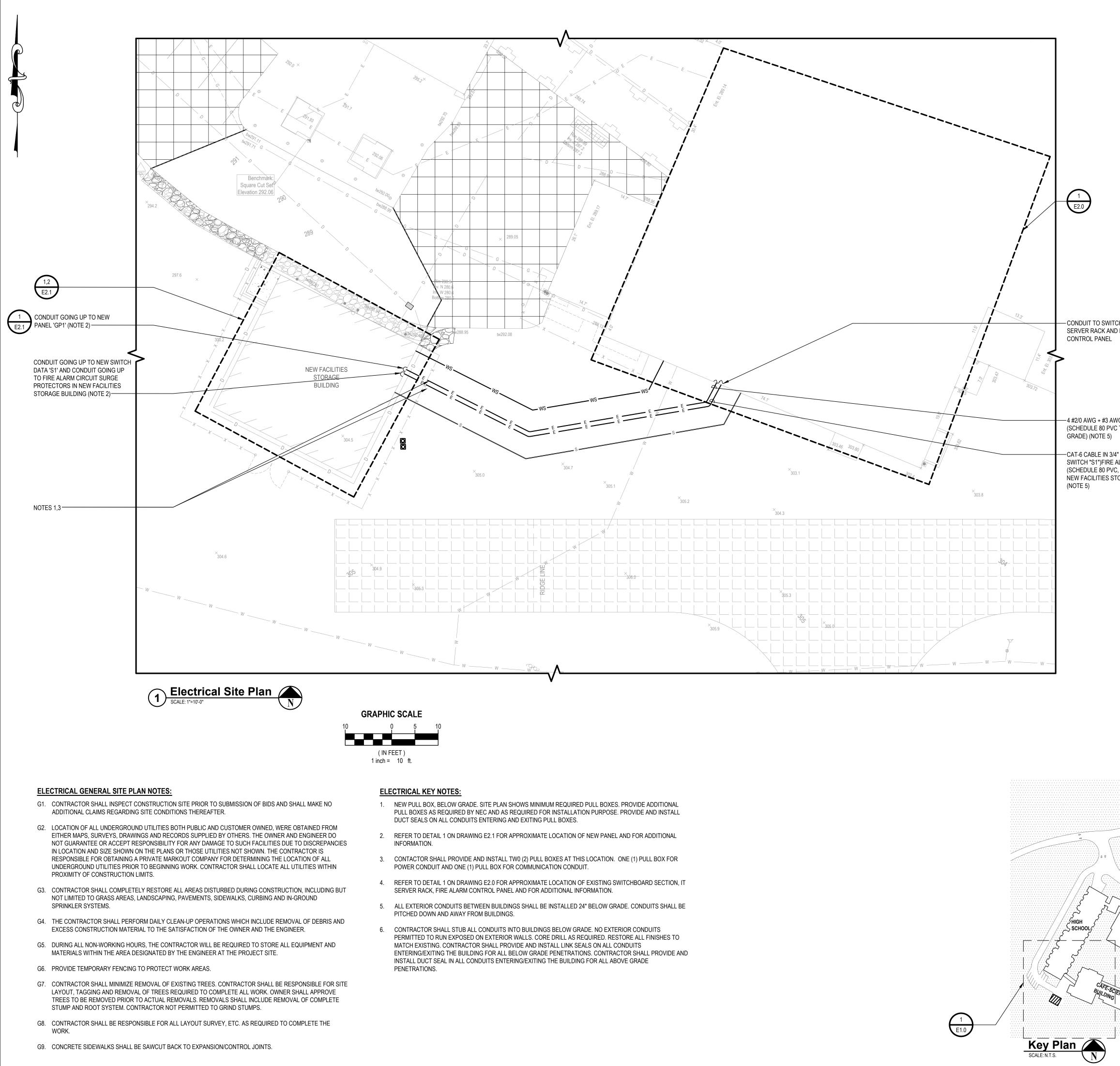
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ELECTRICAL LEGENDS			SINGLE LINE DIAGRAM LEGEND	LIST OF DRAWINGS	
SYMBOL DESCRIPTION COMMENTS		COMMENTS SYMBOL	DESCRIPTION COMMENTS	E0.0 ELECTRICAL LEGENDS, FIRE ALARM RISER, DETAILS AND NOTES	architects
S3 THREE - WAY SWITCH 46" AFF TO CL U	DN AFF ABOVE FINISHED FLOOR	Ţ	LINE VOLTAGE THERMOSTAT, 120V, 10A.	E1.0 ELECTRICAL SITE PLAN	+
S4 FOUR - WAY SWITCH 46" AFF TO CL U S1 ILLUMINATED SWITCH 46" AFF TO CL U				E2.0 ELECTRICAL PARTIAL LOWER LEVEL CAFE-SCIENCE-MUSIC BUILDING PLAN E2.1 ELECTRICAL FACILITIES STORAGE BUILDING PLANS	engineers
SI Inclusion with the second seco		● 100AF 100AT	CIRCUIT BREAKER WITH TRIP AND POLES AS NOTED; 100 AMP FRAME, 100 AMP TRIP.	E3.0 ELECTRICAL SINGLE LINE DIAGRAM, DETAILS AND SCHEDULES	
SD SINGLE POLE DIMMER SWITCH 46" AFF TO CL U S3D THREE - WAY DIMMER SWITCH 46" AFF TO CL U				SITE PLAN LEGEND	
Sign THREE - WAY DIMMER SWITCH 46 AFF TO CL U Sk SINGLE POLE KEYED SWITCH 46" AFF TO CL U	ON ATS AUTOMATIC TRANSFER SWITCH; SEE TRANSFER SWITCH		TRANSFER SWITCH 'TS1'; SEE TRANSFER SWITCH SCHEDULE.		2700 Westchester Avenue, Suite 415
SK3 KEYED THREE - WAY SWITCH 46" AFF TO CL U	ON AWG AMERICAN WIRE GAUGE	A IS		CURB	Purchase, NY 10577 914.358.5623 - www.h2m.com
Sk4 KEYED FOUR - WAY SWITCH 46" AFF TO CL U SP SWITCH AND PILOT LIGHT 46" AFF TO CL U	BFC BELOW FINISHED CEILING	PANEL "51"	DISTRIBUTION PANEL P1 WITH 30A, 2 POLE M.C.B.; SEE DISTRIBUTION PANEL SCHEDULE.	UTILITY POWER/TELEPHONE POLE	
ST SWITCH WITH THERMAL OVERLOAD PROTECTION (CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE WITH EQUIPMENT)	CL CENTERLINE CT COUNTER TOP			G G G S	CONSULTANTS:
Sosives OCCUPANCY/VACANCY SENSOR WITH MANUAL OVERRIDE, WALL MOUNT	E.C. ELECTRICAL CONDUIT		UNFUSED DISCONNECT SWITCH DS1, 100 AMP; SEE DISCONNECT SWITCH SCHEDULE.	S EXISTING SEWER SERVICE	
TC TIME CLOCK Image: Big b	GFCI GROUND FAULT CIRCUIT INTERRUPTER GFI GROUND FAULT INDICATOR		FUSED DISCONNECT SWITCH 'DSI', FUSED AT 100 AMP SIZE, 100 AMP FUSED, 3 POLES; SEE		
EMERGENCY SHUT OFF SWITCH; 'E' INDICATES ELECTRICAL; 'G' INDICATES GAS	GND GROUND	DS1 <u>100AS</u>	DISCONNECT SWITCH SCHEDULE.	••••••••••••••••••••••••••••••••••••	
3 #12 AWG + #12 AWG GND IN 3/4" E.C. CONCEALED IN OR BELOW SLAB	CON-ED CONSOLIDATED EDISON, INC.	G	GENERATOR SET 'G'	EXISTING ELECTRICAL LINES	
DEDICATED HOME RUN TO PANEL LP1 FOR CIRCUIT NO. 35 ONLY. 2 #12 AWG + #12 AWG GND IN 3/4" E.C. CONCEALED IN	MCB MAIN CIRCUIT BREAKER		ELECTRIC METER AND METER PAN AS PER PSEG REQUIREMENTS.		MARK DATE DESCRIPTION
LP1-35 WALL OR CEILING SIMPLEX RECEPTACLE: 120V, 20A. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR FLUSH	MLO MAIN LUGS ONLY N.T.S. NOT TO SCALE				
BASEBOARDS. DUPLEX RECEPTACLE: 120V, 20A. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR	TYP TYPICAL		MOTOR, NUMBER INDICATES HORSEPOWER.	OH/E OH/E EXISTING OVERHEAD ELECTRIC LINES	
QUAD RECEPTACLE, DOUBLE DUPLEX RECEPTACLE: 120V, 20A. COORDINATE MOUNTING HEIGHT WITH MECHANICAL	UON UNLESS OTHERWISE NOTED UC UNDER COUNTER	стз	CURRENT TRANSFORMERS.	x x x EXISTING FENCE	
CONTRACTOR TO CLEAR BASEBOARDS. FLUSH Contractor to clear baseboards. FLUSH Duplex receptacle: 120V, 20A; SUBSCRIPT "C" INDICATES CEILING MOUNT. FLUSH	V VOLT		VOLTAGE TRANSFORMERS.	ELECTRIC PULL BOX	
DUPLEX RECEPTACLE: 120V, 20A, SUBSCRIPT C INDICATES CEILING MOUNT. FLUSH DUPLEX RECEPTACLE: 120V, 20A; FLOOR MOUNTED. FLUSH	VAC VOLTS ALTERNATING CURRENT VDC VOLTS DIRECT CURRENT	UPS	UNINTERRUPTIBLE POWER SUPPLY	HH HANDHOLE	
QUAD RECEPTACLE: 120V, 20A; FLOOR MOUNTED.	X-FMR TRANSFORMER	120/208V	T2		
DUPLEX RECEPTACLE AND DATA JACK: 120V, 20A; FLOOR MOUNTED.		277/480	TRANSFORMER 'T2' WITH SIZE, PRIMARY AND SECONDARY VOLTAGES AS NOTED.	SYMBOLS LEGEND	02/09/2022 FINAL REBID DOCUMENT
DATA JACK; FLOOR MOUNTED. Isolated GROUND DUBLEX RECEPTACLE. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR.	FIRE ALARM LEGEND			100 ROOM DESIGNATION	1 11/18/2021 FINAL BID DOCUMENT
IG ISOLATED GROUND DUPLEX RECEPTACLE. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR FLUSH BASEBOARDS. BUDLEX RECEPTACLE: (2004, 2004, WITH CROUND FAULT INDICATOR, COORDINATE MOUNTING HEIGHT WITH MECHANICAL FLUSH	STINBOL DESCRIPTION CO	♦		5 A22 BUILDING SECTION CUT	
GFI DUPLEX RECEPTACLE: 120V, 20A; WITH GROUND FAULT INDICATOR. COORDINATE MOUNTING HEIGHT WITH MECHANICAL CONTRACTOR TO CLEAR BASEBOARDS. FLUSH	圣 STROBE) <u>100AF</u> 100AT	RACK OUT CIRCUIT BREAKER	WALL SECTION CUT	STATE OF NEW YORY
DUPLEX RECEPTACLE: 120V, 20A; SUBSCRIPT "UC" INDICATES UNDER COUNTER AS PER ENGINE				DETAIL KEY	N S A S A
CI DUPLEX RECEPTACLE: 120V, 20A; SUBSCRIPT "CT" INDICATES COUNTER TOP. AS PER ENGINE	(L) HEAT DETECTOR		REDUCED VOLTAGE SOLID STATE RAMPING MODULE, SIZED FOR 10 H.P.	ELEVATION KEY	992583
OUPLEX RECEPTACLE: 120V, 20A; SUBSCRIPT "WP" INDICATED WEATHER PROOF. AS PER ENGINE USB DUDLEX RECEPTACLE: 120V, 20A; SUBSCRIPT "USP" INDICATES INTECRAL USP. ELUCLE	F PULL STATION	RVSS 150	REDUCED VOLTAGE SOLID STATE STARTER, SIZED FOR 150 H.P.		P92583
DUPLEX RECEPTAGLE. 120V, 20A, SUBSCRIPT USB INDICATES INTEGRAL USB.	SURGE PROTECTION	VFD 25	VARIABLE FREQUENCY DRIVE, RATED FOR 25 H.P.		FESSION
	HORN STROBE		FULL VOLTAGE NON-REVERSING STARTER, NEMA SIZE 6	ELEVATION LINE	"ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS ILLEGAL" DESIGNED BY: DRAWN BY: CHECKED BY: REVIEWED BY:
SURFACE RACEWAY WITH 2 GROUNDED AND ISOLATED TYPE DUPLEX RECEPTACLES AND 1 DATA OUTLET PER POSITION,			FVR FULL VOLTAGE REVERSING STARTER, NEMA SIZE 5	Title DRAWING TITLE	LK GT ° PROJECT No.: DATE: SCALE:
18" AFF UNLESS OTHERWISE NOTED. Image: Starter schedule	ACCESS CONTROL SYMBOLS LEGE		FULL VOLTAGE REVERSING STARTER, NEMA SIZE 5	4 3 5 1 INTERIOR ELEVATION REFERENCE	IRSD1903 FEB 2022 AS SHOWN
Disconnection switch "Ds1"; see disconnect switch schedule.	GW GATEWAY (SALTO MODEL GATEWAY X2C) -		FAST ACTING SOLID STATE FUSES AS PER MANUFACTURER.		Irvington Union Free
Image: Optimized state JUNCTION BOX. Image: Optimized state NEMA 4X STAINLESS STEEL JUNCTION BOX WITH GASKET COVER.	CAFE-SCIENCE FACILITIES BUILDING		MULTIPLE BRANCH CIRCUITS AS REQUIRED.	# SEE NOTE # ON DWG #	School District
4x Maintenance in a labor of the content of the co	MUSIC BUILDING FIRE ALARM DEVICES		- CONTROL CIRCUIT; MIN 2 #12 AWG IN ¾" E.C.		
FOR CCTV. JUNCTION BOX RECESSED IN WALL (UON) WITH BLANK COVER. PROVIDE AND INSTALL 3/4" E.C. WITH NYLON	EXISTING REMOTE			CONTROL UNIT NOTIFICATION SUPPLEMENTARY	
Upper PULL STRING TO SERVER RACK "S1" COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH OWNER PRIOR TO INSTALLATION.			TYPICAL DEVICE LOCATIONS		Facilities Storage Building
Image: Proceeding of the provide and the provided and the	MAIN ENTRANCE IN CAFE-SCIENCE- MUSIC BUILDING				at Irvington Campus
Transformer "T1"; SEE TRANSFORMER SCHEDULE. Electrical panel "P1", Recessed; SEE panel schedule.					
P1 ELECTRICAL PANEL "P1", SURFACE MOUNT; SEE PANEL SCHEDULE.		AIR REG		OR O	
C CONDUIT GOING UP.	EDWARDS EST-3 °		SMOKE/ CARBON MONOXIDE DETECTOR		By dhar
CONDUIT GOING DOWN.	EXISTING F.A.C.P. (TYPICAL)	AUDIBLE /STROBE			12:01pr
DATA. PROVIDE CAT 6 CABLE IN 3/4" E.C. TO DATA SWITCH "S1", UON. PROVIDE AND INSTALL A RJ45 JACK AND FACEPLATE. ALL FINAL TERMINATION TO SERVER RACK BY OWNER. COORDINATE ALL ROUTING AND LABELING WITH OWNER PRIOR TO	DRY STORAGE (B) IN				2, 2021 -
INSTALLATION. SECURITY CAMERA. PROVIDE 3/4" E.C. WITH DRAG LINE TO AFC AND EMPTY J. BOX RECESSED IN WALL WITH BLANK	CAFE-SCIENCE- MUSIC BUILDING			SIGNA SIGNA ISOR) SIGNA ISOR)	NEW 1856
S COVER.	Fire Alarm Riser Diagram (Note 13)	PULL STA		ARM SIGNAL IPERV ISTATUNISICOUBL	Plotted o
				ON AL ON AL ON SUILDI BLE S OR STI	12:04pm
	WIRE LEGEND WIRE DESCRIPTION TYPE NOTES			CONE SUPE SUPE SUPE SUPE	PEF SCHOOL
	A 1 PAIR TWISTED SHIELDED #18 AWG FPLP -		80"	JATE / JATE / JATE / SMIT / SMIT / SMIT / SMIT / JATE / JATE /	d: Oct 13
	B 1 PAIR #14 AWG. NON SHIELDED FPLP			ACTI TRAN INITIA INITIA	Irvington Campus
FIRE ALARM GENERAL NOTES:			48" MANUAL PULL ST		40 N. Broadway Irvington, NY 10533
1. ALL WIRING TO BE INSTALLED ACCORDING TO THE LATEST REVISION OF THE NATIONAL ELECTRIC CODE	QUIRED HARDWARE ACCESSORIES, MOTOR STARTERS, CONTROLS, POWER AND DNDUITS TO PROVIDE INDEPENDENT RESET OF ALL FANS AFTER ALARM		SMOKE DETECTOR HEAT DETECTOR		
ORDINANCE.	ACCORDANCE WITH A.D.A REQUIREMENTS. ALL DEVICES SHALL BE MOUNTED AS		DUCT DETECTOR		SED Number:66-04-02-02-2-022-001
2. ALL CONDUCTORS MOST BE TEST FREE OF OPENS, SHORTS AND GROUNDS. 3. GROUNDING MUST COMPLY WITH THE NATIONAL ELECTRIC CODE. GROUNDING MUST BE NO. 12 A W G. FOLLOWS:				OWER FAILURE	
 ALL PANEL TERMINATIONS TO BE SUPERVISED BY A FACTORY AUTHORIZED TECHNICIAN PRIOR TO POWERING EQUIPMENT. A. MANUAL PULL STATION B. ALARM INDICATING APP 			Second Stress Second Stress Second Stres<		
5. FOR COMPONENT WIRING AND INSTALLATION INFORMATION REFER TO MANUFACTURERS REQUIREMENTS.	T SPECIFICATIONS FOR ANY DEVIATIONS. D TO REMAIN ACTIVE AFTER SILENCE FUNCTION IS PERFORMED.		GROUND FAULT NOTIFICATION AP		GENERAL CONSTRUCTION
6. REFER TO CONTRACT DRAWINGS FOR APPROXIMATE DEVICE LOCATIONS. DRAWINGS REPRESENT DEVICE	AM IS SCHEMATIC. REFER TO FLOOR PLANS FOR DEVICE TYPES AND		CIRCUIT SHORT		
WITHOUT P.E STAMP WILL BE AUTOMATICALLY REJECTED. 14. IN ADDITION TO DEVICES	SHOWN ON THE DRAWINGS CONTRACTOR TO PROVIDE ONE SMOKE DETECTOR,			ire Alarm Sequence of Operation	FINAL REBID DOCUMENT
EXACT LOCATIONS OF SUPPLY/RETURNS REGISTERS WITH MECHANICAL CONTRACTOR EACH DEVICE SHALL BE I	IE PULL STATION, ONE HORN STROBE AND ONE CARBON MONOXIDE DETECTOR. NCLUDED WITH 100' OF WIRING AND/OR CONDUIT.				SHEET TITLE
A METALLIC CONTINUITY MUST BE MAINTAINED THROUGHOUT THE CABLE RUN PULL STATIONS AND SHA	ALL BE PROVIDED FOR ALL PULL STATIONS. SHIELDS SHALL FIT OVER MANUAL LL INCLUDE A BATTERY OPERATED PIERCING HORN WHEN THE SHIELD IS				ELECTRICAL LEGENDS, FIRE
B. THE CABLE SHIELD MUST BE ISOLATED FROM GROUND AND TERMINATED ONLY IN THE ASSOCIATED CONTROL PANEL AT THE TERMINAL INDICATED ON THE CONTROL PANEL DRAWINGS THE REMOTE END 16. PLENUM WIRING TO BE U	SED IN ALL AREAS ABOVE DROP CEILINGS. CONDUIT MUST BE USED IN ALL				ALARM RISER, DETAILS AND
OF THE SHIELD (AT LAST DEVICE) MUST BE TAPED AND ISOLATED FROM GROUND.	RICAL ROOMS. CONDUIT MUST ALSO BE USED IN ALL AREAS WITH OPEN				
 ALL STROBE APPLIANCES SHALL BE SYNCHRONIZED. ALL ALARM INDICATING APPLIANCES SHALL SOUND A 'TEMPORAL 3' CODE PATTERN FOR GENERAL FIRE ALARM AND 'TEMPORAL 4' CODE PATTERN FOR CARBON 17. ALL EQUIPMENT TO BE R MONOXIDE ALARM. 	ECESSED MOUNTED AND ALL WIRING AND CONDUIT TO BE RUN CONCEALED.				DRAWING No.
MONOXIDE ALARM. 10 AFTER ALARM INDICATION, ALL FANS SHALL BE MANUALLY RESET INDEPENDENT FROM F.A.C.P. SYSTEM					E0.0

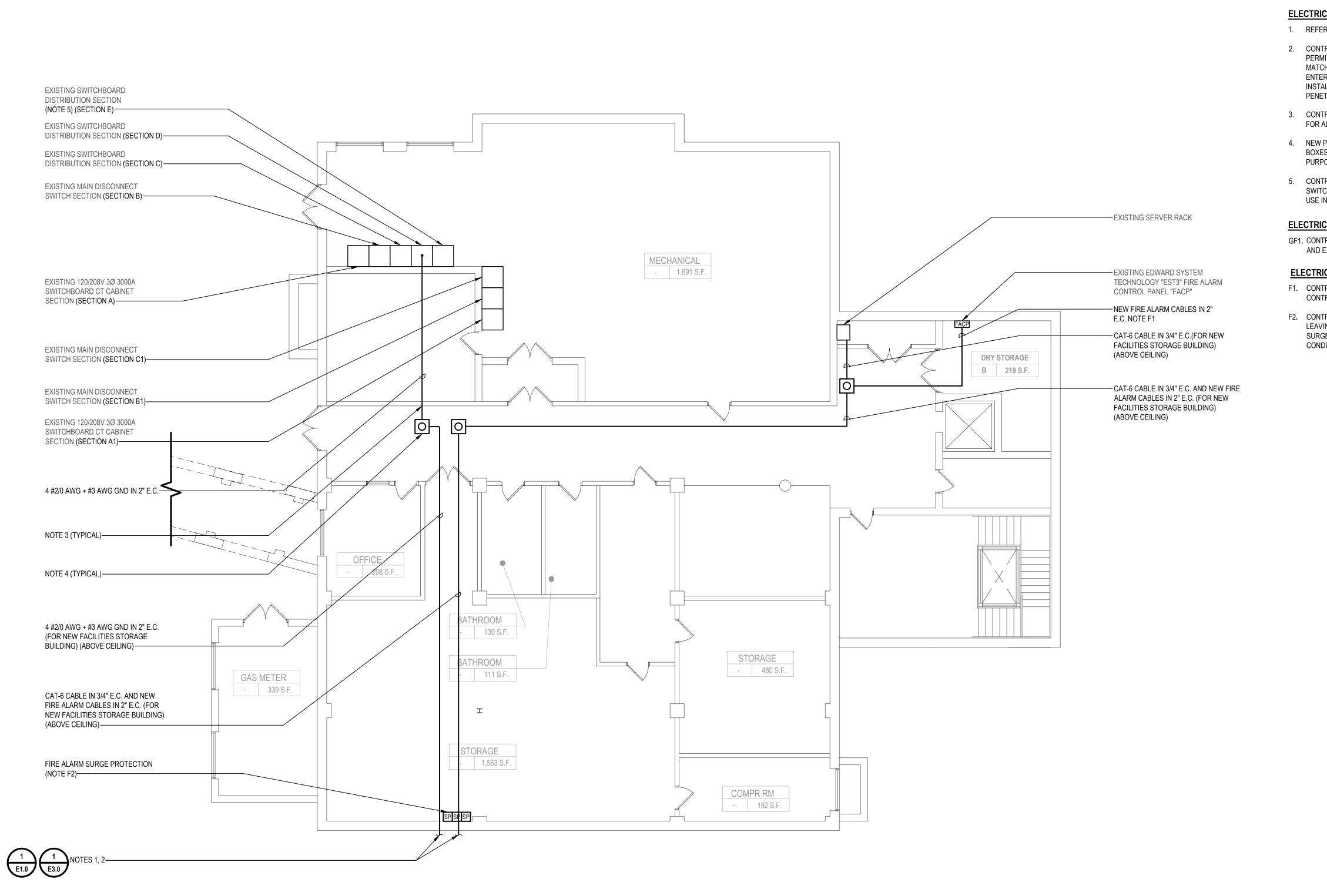


END		
WIRE DESCRIPTION	TYPE	NOTES
FED SHIELDED #18 AWG	FPLP	-
WG. NON SHIELDED	FPLP	-

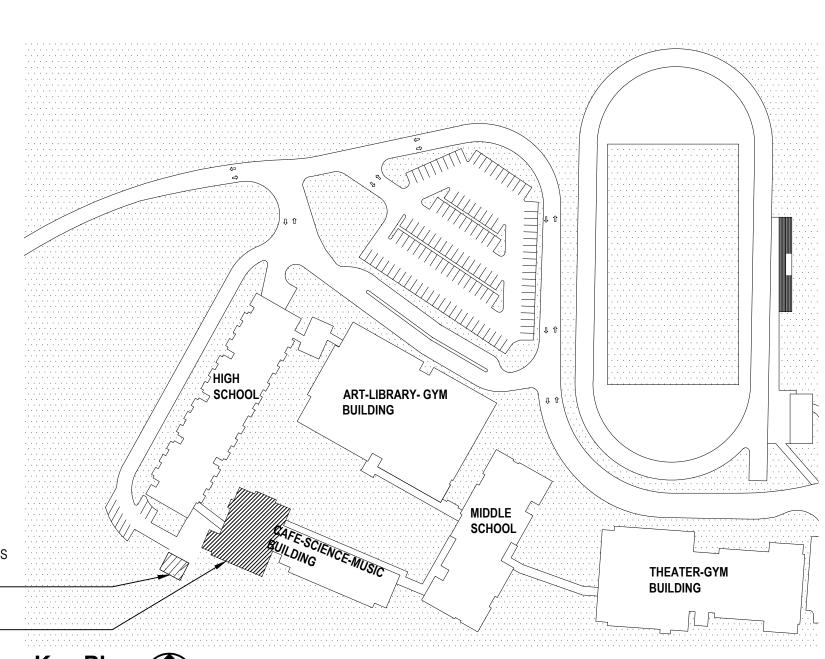




	H2Architects + engineersMVIOVI
	MARK DATE DESCRIPTION
CHBOARD, IT D FIRE ALARM E2.0	02/09/2022 FINAL REBID DOCUMENT 1 11/18/2021 FINAL BID DOCUMENT
VG GND IN 2" E.C. C TO PANEL "GP1") (BELOW $\begin{pmatrix} 2 \\ E3.0 \end{pmatrix}$ 4" E.C. (SCHEDULE 80 PVC, TO DATA ALARM CABLES IN 2" E.C. C, TO NEW FIRE ALARM DEVICES IN FORAGE BUILDING) (BELOW GRADE)	ALTERATION OF THIS DOCUMENT EXCEPT BY A LICENSED PROFESSIONAL IS LLEGAL"
	LK GT Image: Constraint of the state of the stat
	NEW YORK 1856 UNO NEW YORK 1856 UNO NEW YORK 1856
	Irvington Campus 40 N. Broadway
	Irvington, NY 10533 SED Number:66-04-02-02-2-022-001
	CONTRACT G GENERAL CONSTRUCTION
ART-LIBRARY- GYM BUILDING ATHLETICS BUILDING	STATUS FINAL REBID DOCUMENT
MIDDLE SCHOOL ENCE-MUSIC THEATER-GYM BUILDING	SHEET TITLE ELECTRICAL SITE PLAN
	DRAWING No. E1.0



1 Electrical Partial Lower Level Cafe-Science-Music Plan



NEW FACILITIES STORAGE BUILDING



ELECTRICAL KEY NOTES:

1. REFER TO DRAWING E1.0 FOR WIRE AND CONDUIT CONTINUATION AND FOR ADDITIONAL INFORMATION.

2. CONTRACTOR SHALL STUB ALL CONDUITS INTO BUILDINGS BELOW GRADE. NO EXTERIOR CONDUITS PERMITTED TO RUN EXPOSED ON EXTERIOR WALLS. CORE DRILL AS REQUIRED. RESTORE ALL FINISHES TO MATCH EXISTING. CONTRACTOR SHALL PROVIDE AND INSTALL LINK SEALS ON ALL CONDUITS ENTERING/EXITING THE BUILDING FOR ALL BELOW GRADE PENETRATIONS. CONTRACTOR SHALL PROVIDE AND INSTALL DUCT SEAL IN ALL CONDUITS ENTERING/EXITING THE BUILDING FOR ALL ABOVE GRADE PENETRATIONS.

3. CONTRACTOR SHALL COREDRILL WALL AS REQUIRED. INSTALL NON SHRINK GROUT/FIREPROOFING SEALANT FOR ALL CONDUIT PENETRATIONS. RESTORE ALL FINISH TO MATCH EXISTING.

4. NEW PULL BOX ATTACHED TO ABOVE THE CEILING JOISTS. FLOOR PLAN SHOWS MINIMUM REQUIRED PULL BOXES. PROVIDE ADDITIONAL PULL BOXES AS REQUIRED BY NEC AND AS REQUIRED FOR INSTALLATION PURPOSE. PULL BOX SIZE SHALL BE IN ACCORDANCE WITH NEC.

 CONTRACTOR SHALL PROVIDE AND INSTALL THREE (3) NEW 100 AMP FUSES IN EXISTING SPARE 100 AMP SWITCH FRAME IN EXISTING SWITCHBOARD (SECTION D). ALL NEW EQUIPMENT SHALL BE LISTED/LABELED FOR USE IN EXISTING SWITCHBOARD.

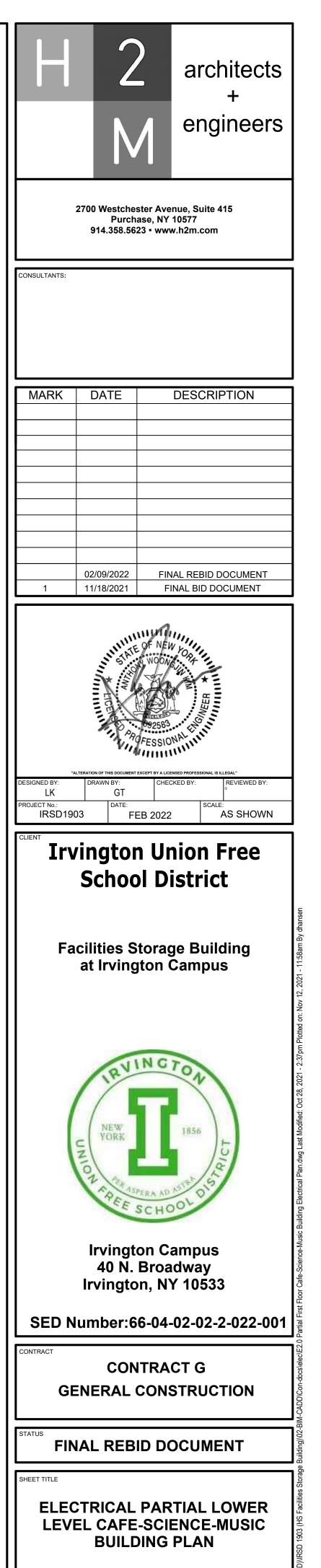
ELECTRICAL GENERAL FIRE ALARM NOTE:

GF1. CONTRACTOR SHALL NOTIFY FIRE ALARM MONITORING COMPANY PRIOR TO INSTALLING/ MODIFYING ANY NEW AND EXISTING DEVICES. PROGRAM SYSTEM AS REQUIRED TO INSTALL NEW DEVICES.

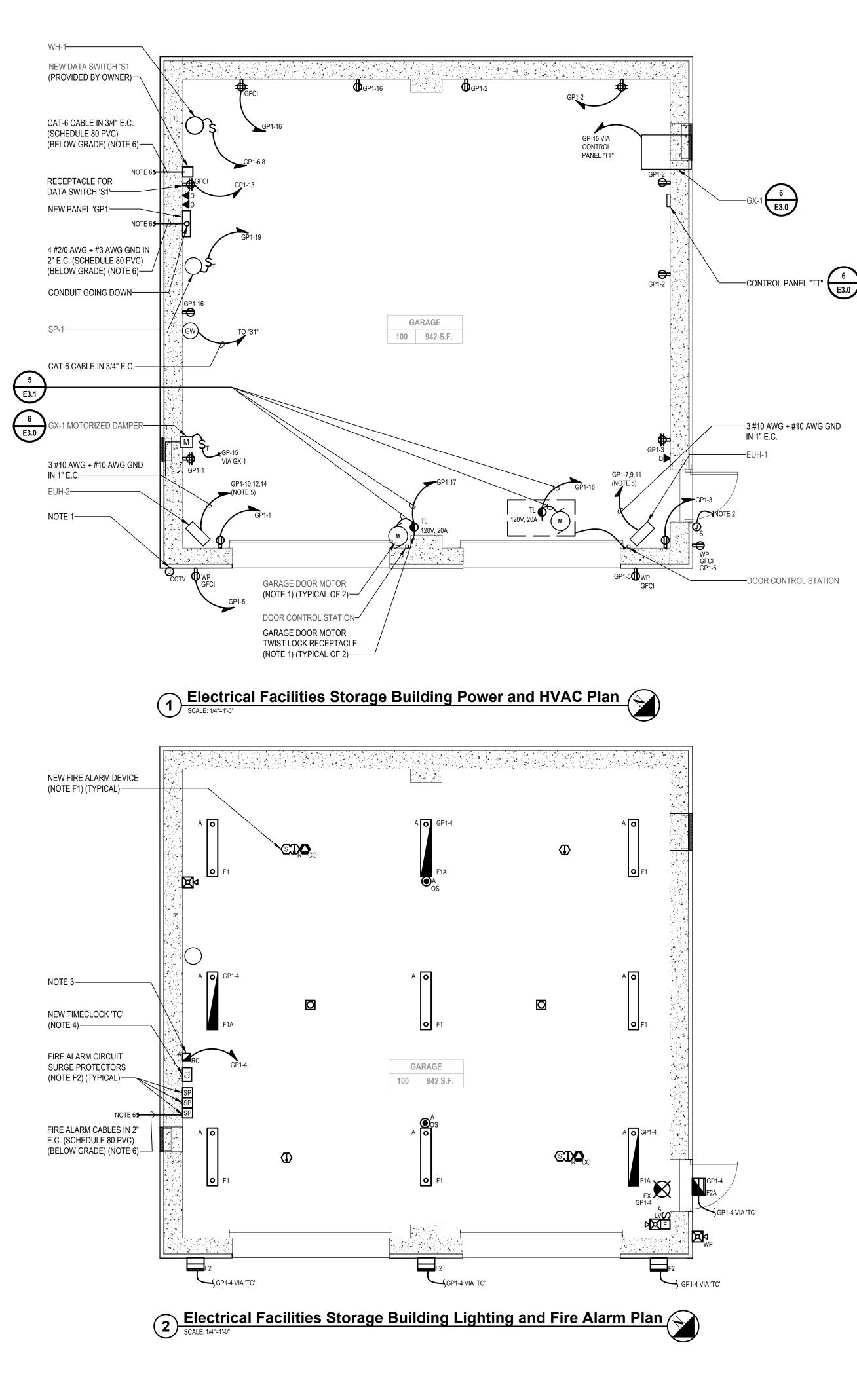
ELECTRICAL FIRE ALARM KEY NOTES:

F1. CONTRACTOR SHALL PROVIDE NEW FIRE ALARM CABLES IN NEW 2" CONDUIT FROM THE EXISTING FIRE ALARM CONTROL PANEL (EDWARDS EST-3 IN CAFE-SCIENCE-MUSIC BUILDING) TO NEW FACILITIES STORAGE BUILDING.

F2. CONTRACTOR SHALL PROVIDE AND INSTALL SURGE PROTECTORS ON ALL FIRE ALARM CABLES PRIOR TO LEAVING THE NEW FACILITIES STORAGE BUILDING AND UPON ENTERING THE CAFE-SCIENCE-MUSIC BUILDING. SURGE PROTECTORS SHALL BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM. PROVIDE ALL WIRING AND CONDUIT TO EXISTING GROUNDING SYSTEM AS REQUIRED.

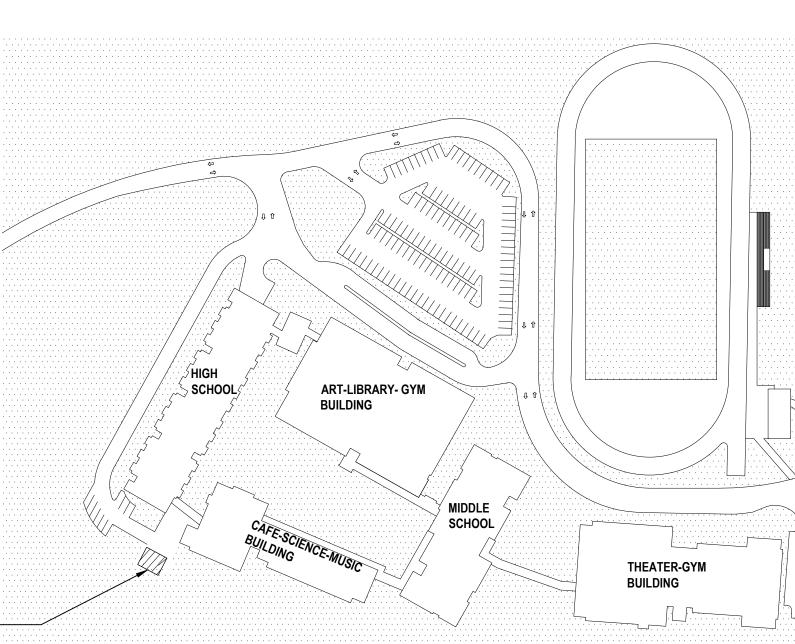


E2.0



EL	ECTRICAL KEY NOTES:
1.	CONTRACTOR SHALL COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH OWNER PRIOR TO INSTALLATION

- COORDINATE EXACT MOUNTING LOCATION WITH OWNER PRIOR TO INSTALLATION. PROVIDE AND INSTALL A PHENOLIC NAMEPLATE STATING "JUNCTION BOX FOR FUTURE USE".
- 3. CONTRACTOR SHALL PROVIDE AND INSTALL A JUNCTION BOX (6"W X 6"L X 4"D, MINIMUM) APPROXIMATELY 7'-6" AFF FOR NEW ROOM CONTROLLER. PROVIDE AND INSTALL ALL MOUNTING HARDWARE TO SECURELY MOUNT TO WALL. PROVIDE AND INSTALL PHENOLIC NAMEPLATE STATING "LIGHTING CONTROL ROOM CONTROLLER".
- NEW TIME CLOCK SHALL BE TORK MODEL DG100A OR APPROVED EQUAL. COORDINATE EXACT TIME CLOCK SCHEDULES WITH OWNER AND PROGRAM AS REQUIRED.
- CONTRACTOR SHALL PROVIDE AND INSTALL ALL WIRE AND CONDUIT AS REQUIRED TO FIELD INSTALL FACTORY 5 PROVIDED DISCONNECT SWITCH.
- 6. REFER TO DRAWING E1.0 FOR CONDUIT CONTINUATION AND ADDITIONAL INFORMATION.













ELECTRICAL GENERAL LIGHTING NOTES:

GL1. PROVIDE ALL REQUIRED WIRING NECESSARY BETWEEN SWITCHES, CONTROLLERS AND/OR OCCUPANCY SENSORS FOR COMPLETE LIGHTING CONTROL. PROVIDE ALL REQUIRED WIRING BETWEEN SWITCHES. WIRE SIZE SHALL EQUAL POWER FEED SIZE.

GL2. FIXTURES INDICATED WITH CIRCUIT DESIGNATIONS SHALL BE CONNECTED TO LINE SIDE OF CIRCUIT.

GL3. FIXTURES INDICATED WITH LETTER DESIGNATIONS SHALL BE CONNECTED TO THE SWITCH, OCCUPANCY SENSOR AND/OR ROOM CONTROLLER WITH CORRESPONDING LETTER DESIGNATION.

GL4. PROVIDE AND INSTALL A DEDICATED NEUTRAL FOR EACH CIRCUIT. CONTRACTOR IS NOT PERMITTED TO USE COMMON NEUTRALS.

GL5. PROVIDE BOX AND ACCESSORIES AS PER MANUFACTURER'S RECOMMENDATION FOR ALL SWITCHES OCCUPANCY SENSORS, AND/OR POWER PACKS.

GL6. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT/ENGINEER IN FIELD.

GL7. ALL FIXTURES WITH EMERGENCY DRIVERS AND ALL FIXTURES THAT ARE PART OF AN EMERGENCY LIGHTING SYSTEM, FED FROM A BATTERY SYSTEM SHALL BE LABELED. THESE LABELS SHALL BE EASILY READ FROM THE FLOOR LEVEL AND STATE THAT THE FIXTURE IS AN EMERGENCY FIXTURE AND CONTAIN THE PANEL NAME AND CIRCUIT NUMBER THAT IT IS FEED FROM.

GL8. WIRING FOR EMERGENCY DRIVER IS NOT SHOWN ON PLANS. FIXTURES WITH EMERGENCY DRIVER SHALL BE PROVIDED WITH AN UNSWITCHED POWER FEED FROM CIRCUIT FEEDING LIGHT FIXTURE.

GL9. CONTRACTOR SHALL USE SILICONE WATER PROOF SEALANT TO SEAL TOP, LEFT, AND RIGHT EDGES OF LIGHT FIXTURES TO WALL TO PREVENT MOISTURE FROM ACCUMULATING BEHIND FIXTURE. BOTTOM EDGE SHALL BE LEFT UNSEALED FOR DRAINAGE. COLOR OF SILICONE SHALL MATCH EITHER WALL COLOR OR FIXTURE COLOR. (TYPICAL OF ALL WALL MOUNTED EXTERIOR LIGHTING)

ELECTRICAL GENERAL FIRE ALARM NOTE

GF1. CONTRACTOR SHALL NOTIFY FIRE ALARM MONITORING COMPANY PRIOR TO INSTALLING/ MODIFYING ANY NEW AND EXISTING DEVICES. PROGRAM SYSTEM AS REQUIRED TO INSTALL NEW DEVICES.

ELECTRICAL FIRE ALARM KEY NOTES:

F1. CONTRACTOR SHALL PROVIDE AND INSTALL NEW FIRE ALARM DEVICES AND ALL NECESSARY EQUIPMENT TO MAKE A PROPER CONNECTION TO EXISTING FIRE ALARM CONTROL PANEL "FACP" WHICH IS LOCATED IN THE STORAGE ROOM ON THE LOWER FLOOR IN THE CAFE-SCIENCE-MUSIC BUILDING USING MANUFACTURERS RECOMMENDED WIRING IN 3/4" E.C. CONTRACTOR SHALL PROVIDE AND EXTEND POWER/DATA FEEDS TO NEW FIRE ALARM DEVICE LOCATION. PROVIDE AND INSTALL ALL EXPANSION CARDS, WIRE, CONDUIT, RELAYS, POWER SUPPLIES, BATTERIES, EXTENDERS, PROGRAMMING, MOUNTING HARDWARE, AND JUNCTION BOXES AS REQUIRED. COORDINATE EXACT MOUNTING LOCATION AND HEIGHT WITH ARCHITECT PRIOR TO INSTALLATION. TYPICAL OF ALL FIRE ALARM DEVICES. REFER TO DRAWING E2.0 FOR APPROXIMATE LOCATION OF EXISTING FACP.

F2. CONTRACTOR SHALL PROVIDE AND INSTALL SURGE PROTECTORS ON ALL FIRE ALARM CABLES PRIOR TO LEAVING THE NEW FACILITIES STORAGE BUILDING AND UPON ENTERING THE CAFE-SCIENCE-MUSIC BUILDING. SURGE PROTECTORS SHALL BE COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM. PROVIDE ALL WIRING AND CONDUIT TO EXISTING GROUNDING SYSTEM AS REQUIRED.

FACILITIES STORAGE BUILDING FIRE ALARM SEQUENCE OF OPERATION:

FS1. OPERATION OF ANY MANUAL FIRE ALARM PULL STATION OR ACTIVATION OF AN HEAT/SMOKE DETECTOR THROUGHOUT THE FACILITIES STORAGE BUILDING SHALL AUTOMATICALLY:

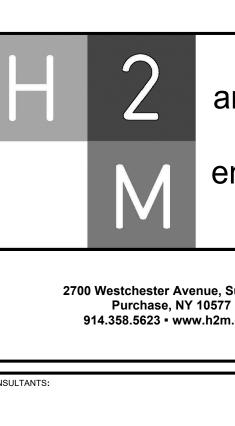
A. SOUND ALL HORNS THROUGHOUT THE FACILITIES STORAGE BUILDING WITH A "TEMPORAL 3" CODE. THE ALARM SIGNALS MAY BE SILENCED DURING THE ALARM CONDITION BY OPERATION OF THE FACP ALARM SILENCE SWITCH. SUBSEQUENT ALARM CONDITIONS SHALL RE-SOUND THE ALARM HORNS. HORNS SHALL NOT SOUND THROUGHOUT THE CAFE-SCIENCE-MUSIC SCHOOL BUILDING.

B. FLASH ALL ALARM STROBE LIGHTS THROUGHOUT THE FACILITIES STORAGE BUILDING. THE ALARM STROBE LIGHTS SHALL BE TURNED OFF WHEN THE SYSTEM IS RESET. STROBE LIGHTS SHALL NOT FLASH THROUGHOUT THE CAFE-SCIENCE-MUSIC SCHOOL BUILDING.

C. DISPLAY A GENERAL ALARM INDICATION AND SYSTEM STATUS SUMMARY (NUMBERS OF ALARM. SUPERVISORY AND/OR TROUBLE CONDITIONS) ON FACP LIQUID CRYSTAL DISPLAY (LCD). PRESSING THE ALARM ACKNOWLEDGE KEY SHALL DISPLAY, FOR THIRTY (30) SECONDS, THE INDIVIDUAL DEVICE OR CIRCUIT DISPLAY, TO INCLUDE THE "ALARM" STATUS AND CUSTOM LABEL (UP TO FORTY CHARACTERS AND SPACES) FOR THE ADDRESSABLE DEVICE OR CIRCUIT OF ALARM INITIATION ON THE LIQUID CRYSTAL DISPLAY (LCD). AT THE END OF THE THIRTY (30) SECOND PERIOD, THE GENERAL ALARM INDICATION AND SYSTEM STATUS SUMMARY SHALL AGAIN BE DISPLAYED. THE INDIVIDUAL DEVICE/CIRCUIT DISPLAY MAY BE RECALLED AT ANY TIME BY REPRESSING THE FIRE ALARM ACKNOWLEDGE KEY OR UNTIL ALARM CONDITION IS SET TO NORMAL.

D. ENTER THE ALARM CONDITION CUSTOM LABEL WITH TIME AND DATE OF OCCURRENCE INTO THE FACP HISTORICAL ALARM LOG FOR THE FUTURE CALL.

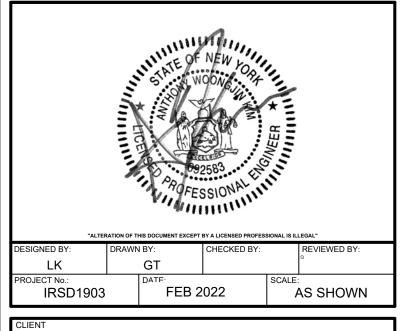
E. ACTIVATE CIRCUIT TO INITIATE ALARM TO CENTRAL STATION. THE CENTRAL STATION MONITORING SHALL BE FURNISHED BY OWNER.



architects engineers

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MARK DESCRIPTION DATE FINAL REBID DOCUMENT 02/09/2022 11/18/2021 FINAL BID DOCUMENT



Irvington Union Free School District

Facilities Storage Building at Irvington Campus



Irvington Campus 40 N. Broadway Irvington, NY 10533

SED Number:66-04-02-02-2-022-001

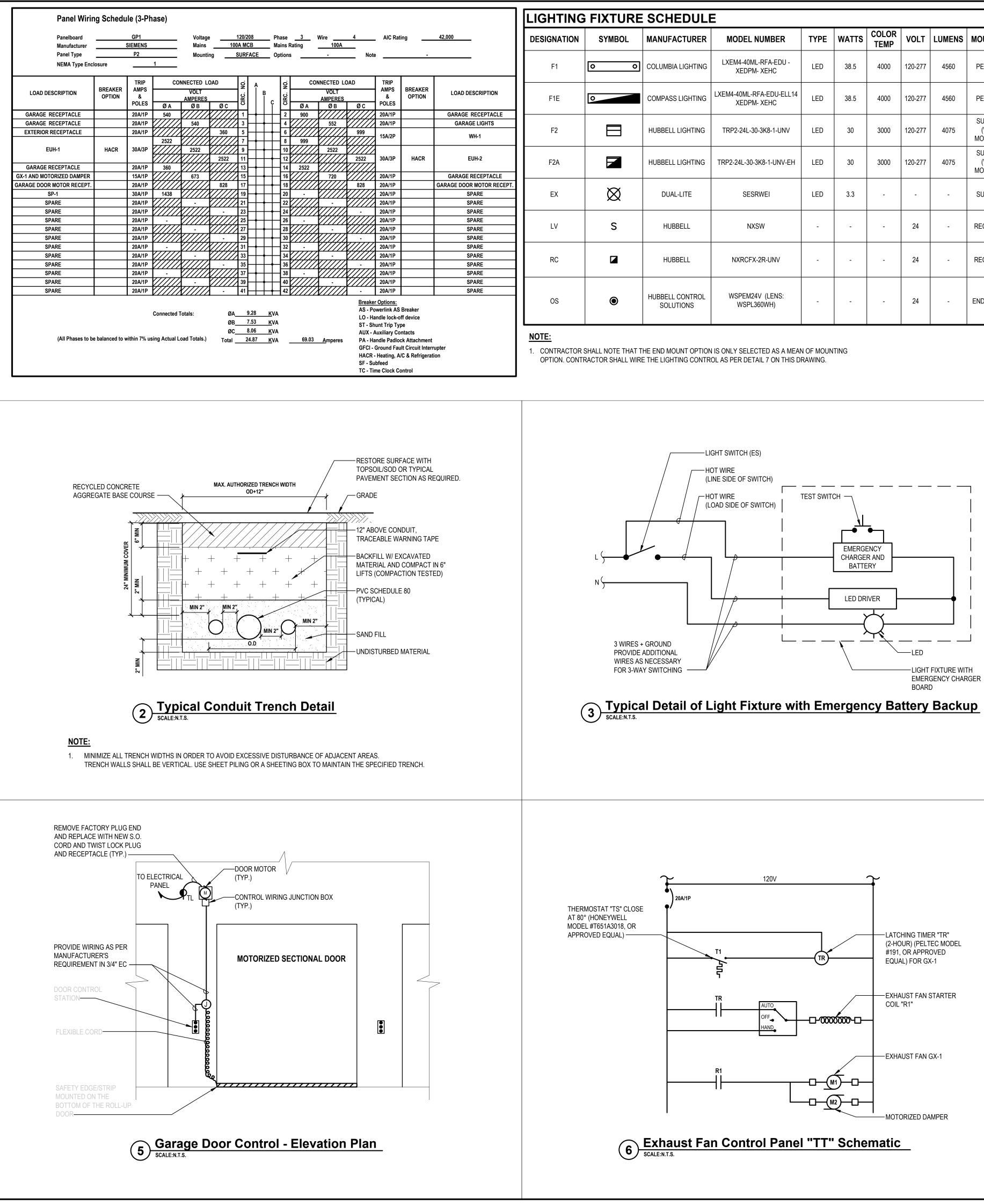
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FINAL REBID DOCUMENT

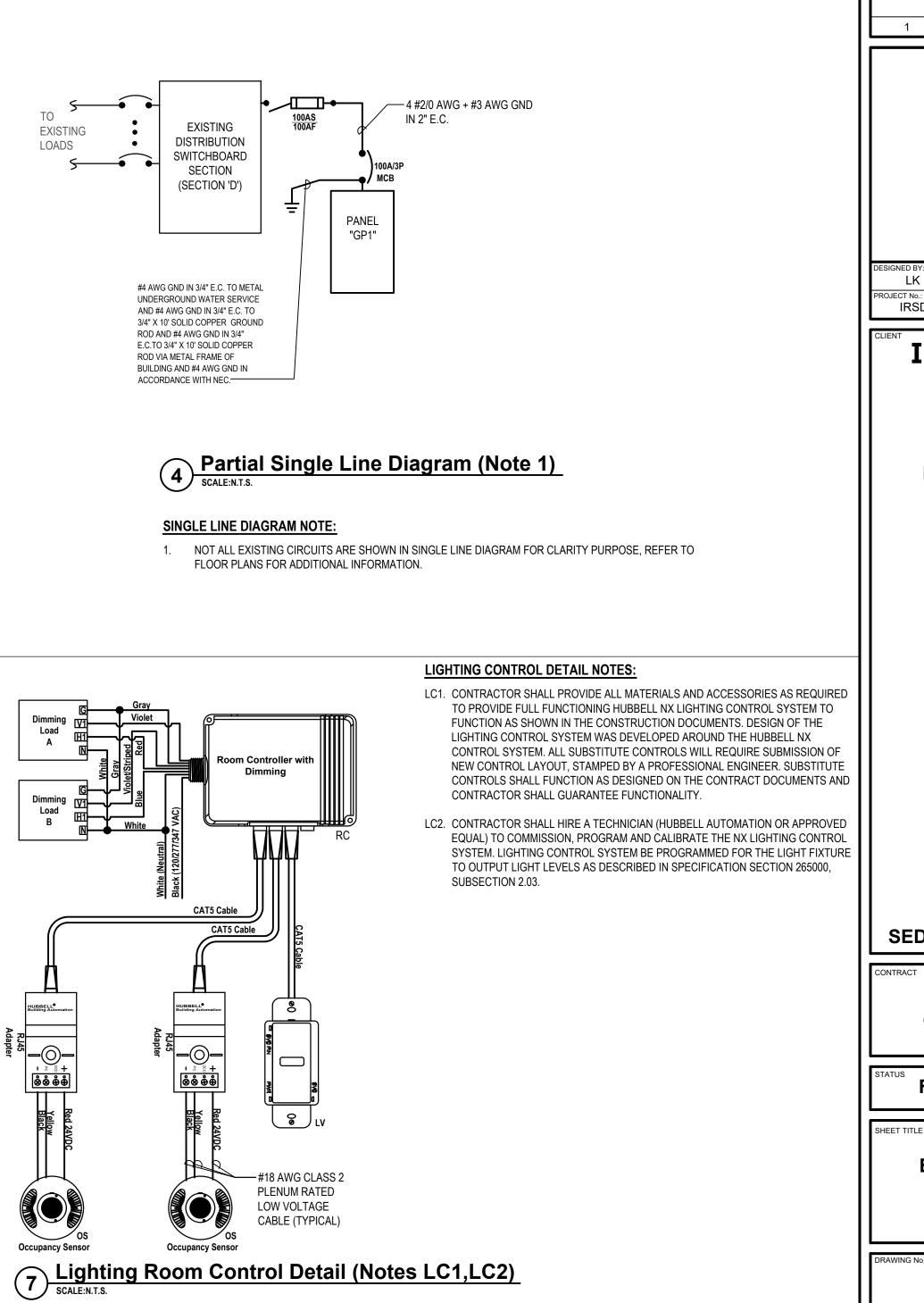
SHEET TITLE

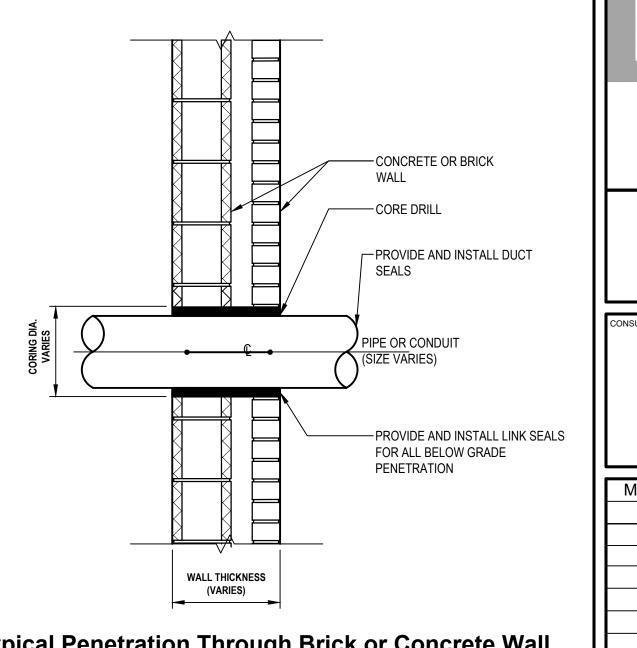
ELECTRICAL FACILITIES STORAGE BUILDING PLANS

E2.1



					COLOR					MOUNTING	
SYMBOL	MANUFACTURER	MODEL NUMBER	TYPE	WATTS	TEMP	VOLT	LUMENS	MOUNTING	REMARKS	HEIGHT	DETAIL
0	COLUMBIA LIGHTING	LXEM4-40ML-RFA-EDU - XEDPM- XEHC	LED	38.5	4000	120-277	4560	PENDANT	-	11'-6" AFG	-
	COMPASS LIGHTING	LXEM4-40ML-RFA-EDU-ELL14 XEDPM- XEHC	LED	38.5	4000	120-277	4560	PENDANT	EMERGENCY BATTERY BACKUP WITH 90 MINUTES OF BACK-UP CAPACITY	11'-6" AFG	3 E3.0
	HUBBELL LIGHTING	TRP2-24L-30-3K8-1-UNV	LED	30	3000	120-277	4075	SURFACE (WALL MOUNTED)	-	10'-0" AFG	-
	HUBBELL LIGHTING	TRP2-24L-30-3K8-1-UNV-EH	LED	30	3000	120-277	4075	SURFACE (WALL MOUNTED)	EMERGENCY BATTERY BACKUP WITH 90 MINUTES OF BACK-UP CAPACITY	1'-0" ABOVE DOOR FRAME	3 E3.0
\boxtimes	DUAL-LITE	SESRWEI	LED	3.3	-	-	-	SURFACE	EMERGENCY BATTERY BACKUP WITH 90 MINUTES OF BACK-UP CAPACITY	1'-0" ABOVE DOOR FRAME	-
S	HUBBELL	NXSW	-	-	-	24	-	RECESSED	LOW VOLTAGE MOMENTARY LIGHT SWITCH	4'-0" AFF	7 E3.0
	HUBBELL	NXRCFX-2R-UNV	-	-	-	24	-	RECESSED	ROOM CONTROLLER	REFER TO DRAWING	7 E3.0
۲	HUBBELL CONTROL SOLUTIONS	WSPEM24V (LENS: WSPL360WH)	-	-	-	24	-	END MOUNT	OS DENOTES OCCUPANCY SENSOR. PROVIDE RJ-45 ADAPTER AS REQUIRED TO USE WITH NX CONTROLLER, (NOTE 1)	END MOUNT OCCUPANCY SENSOR	7 E3.0





1 Typical Penetration Through Brick or Concrete Wall scale:N.T.S.

H 2 architects +										
	Mengineers									
2700 Westchester Avenue, Suite 415 Purchase, NY 10577 914.358.5623 • www.h2m.com										
CONSULTANTS:										
MARK	DATE	DESCRIPTION								
	02/09/2022	FINAL REBID DOCUMENT								
1	11/18/2021	FINAL BID DOCUMENT								
PROFESSIONAL ENDINE										
DESIGNED BY:	DRAWN BY:	CHECKED BY:								
PROJECT No.: IRSD19()3 FE	EB 2022 AS SHOWN								
Irv	Irvington Union Free School District Facilities Storage Building									
at Irvington Campus										
Irvington Campus 40 N. Broadway Irvington, NY 10533										
SED N	umber:6	6-04-02-02-2-022-001								
CONTRACT G GENERAL CONSTRUCTION										
STATUS FIN	IAL REB									
SHEET TITLE ELECTRICAL SINGLE LINE DIAGRAM, DETAILS AND SCHEDULES										
DRAWING NO. E3.0										