# 24 19 22 20 **BURLINGTON FIRE STATION NO. 2 - TOILET RENOVATIONS** D&W PROJECT # 18-0786 JOHN D. BOARDMAN FIRE STATION #2 JOHN D. BOARDMAN 132 NORTH AVENUE BURLINGTON, VT 05401 FIRE STATION NO. 2 FIRE **OWNER** DEPT **CITY OF BURLINGTON** DEPARTMENT OF PUBLIC WORKS OFFICE OF PLANGINEERING 645 PINE STREET, SUITE A BURLINGTON, VT 05402 802.863.9094 **BURLINGTON FIRE DEPARTMENT** 136 S. WINOOSKI AVE **BURLINGTON VT 05402** 802.864.4554 ARCHITECT DORE & WHITTIER ARCHITECTS, INC. 212 BATTERY STREET BURLINGTON, VT 05401 802.863.1428 260 MERRIMAC STREET BUILDING 7, 2ND FLOOR NEWBURYPORT, MA 01950 978.499.2999 **MEPFP CONSULTANT** PROJECT LOCATION MAP **PEARSON & ASSOCIATES** 174 THOMAS LANE STOWE, VT 05672 LIST OF DRAWING SHEETS 802.253.9607 **STRUCTURAL CONSULTANT** ENGINEERING VENTURES, INC. **BURLINGTON, VT OFFICE** 208 FLYNN AVE

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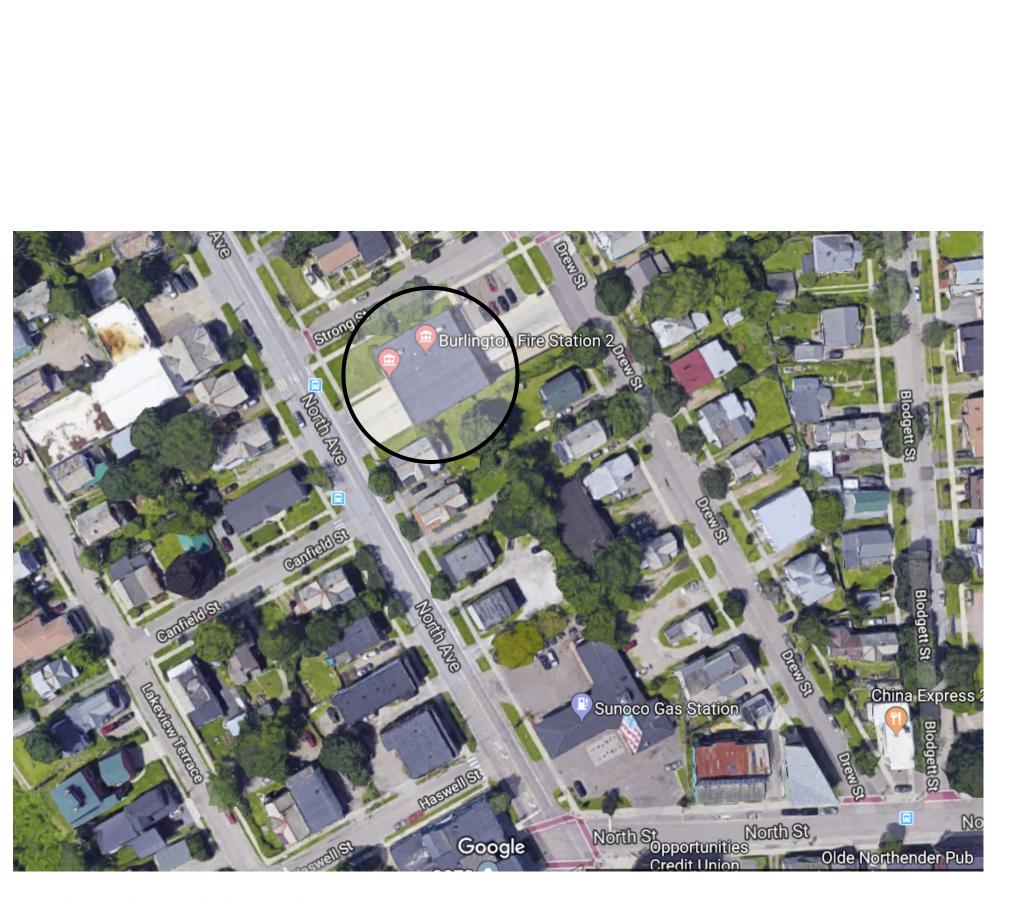
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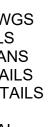


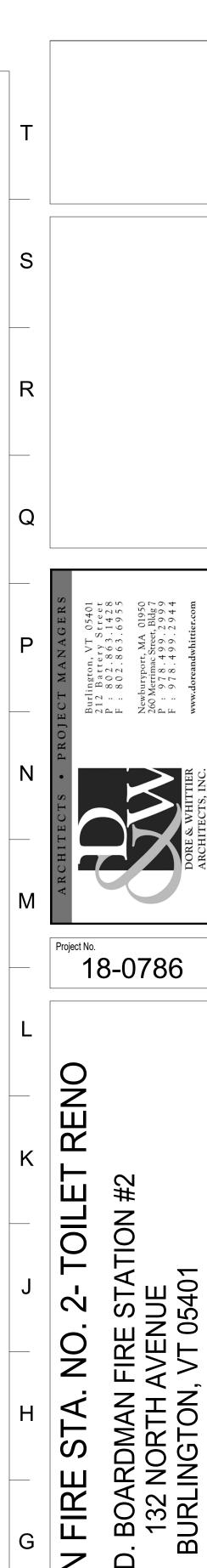
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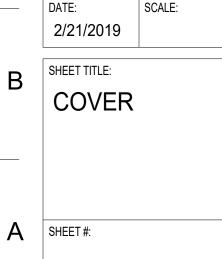
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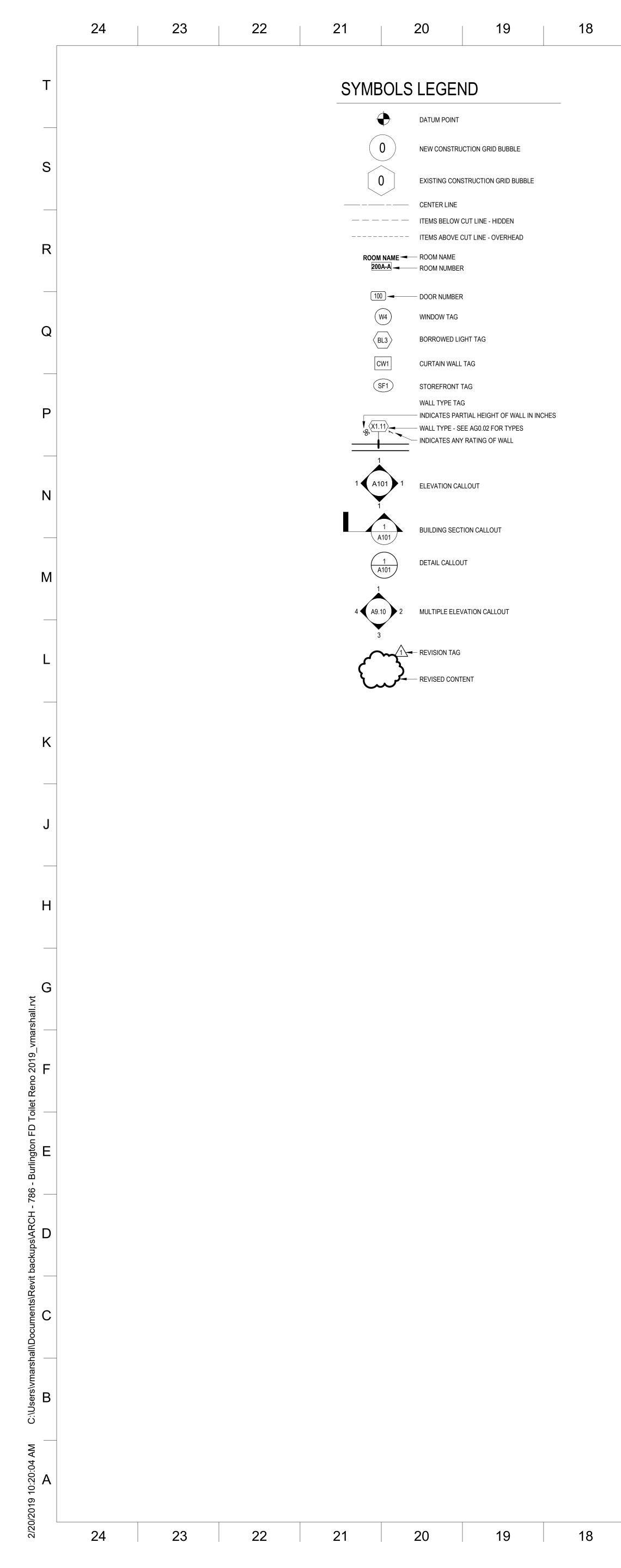


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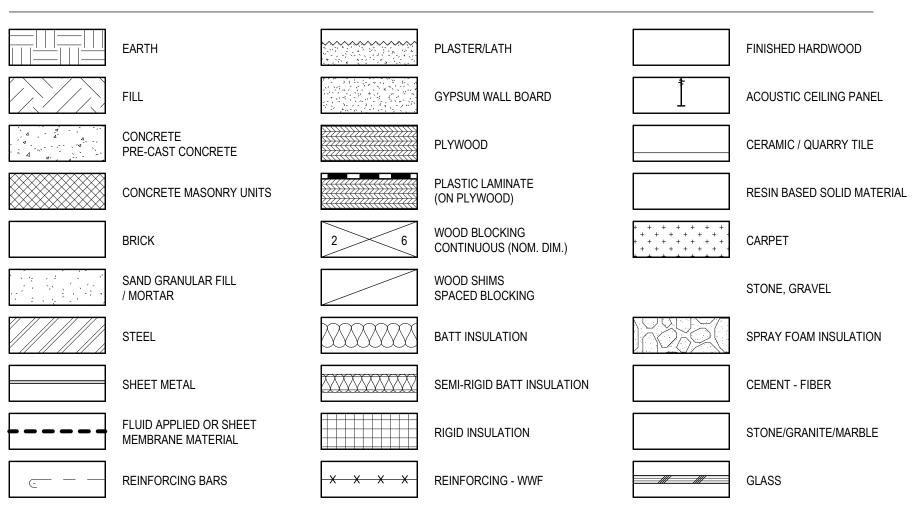
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ABBREVIATIONS								
A       ABV       AFF     ABOVE       AFG     ABOVE       ASC     ABOVE SUBSHED SLAB       ASC     ABOVE SUSPENDED CELLING       ACS     ACCESSIBLE FLOOR       ACS     ACCESSIBLE FLOOR       ACS     ACOUSTICAL CELLING TALE       ACP     ACOUSTICAL CELLING TALE       ACP     ACOUSTIC CEMENTITIOUS WOOD FIBER       PARELS     AVP       ACOUSTIC WALL PANEL     ACD       ADDM     ADDENDUM       ADDM     ADDENDUM       ADDM     ADDENDUM       ADDM     ADDENTION       ADDM     ADDENTION       ADDM     ADDENTION       ADDM     ADDITION       ADD     ADJUSTABLE       AGGR     AGGREGATE       AIB     AII INFILTRATION BARRIER       AC     AICONDITIONING       ALT     ALTERNATE       ALUM     AUMAINTE       ARCH     ARCHOR BOLT       AFR     ANCHOR BOLT       AFR     ANCHOR BOLT       AFR     ANCHOR CANS WITH DISABILITIES ACT       AB     ASENTRATE       ALUM     AUMAINTE       ARCH     ARCHITECTURAL)       AD     AREADRAIN       ASB     ASBESTOS       ASPHALT	CLONTL) CLAR CLEAR (ANCE) CLO CLOSET CLOS CLOSURE CLOS CLOSURE CASH CONSTRUCTION COMB COMBINATION PTOWR COMBINATION PAPER TOWEL DISPENSER/ WASTE RECEPTACLE BROOM HOLDER COMBINATION UTILITY SHELF / MOP AND BROOM HOLDER COMBINATION UTILITY SHELF / MOP AND BROOM HOLDER COMBINATION (COMPOSITE) CMPST COMPARTMENT CMPST COMPARTMENT CMPST COMPARTMENT CMPST COMPARTMENT CMPST COMPRESS (CLOMBUSTION) CONCRETE UNIT VENEER MASONRY CMU CONCRETE MASONRY UNIT CONF CONSTRUCTION CON CONFERENCE CONN CONFERENCE CONN CONFERENCE CONN CONFERENCE CONT CONTRACT (OR) CFC CONTRACT OR FURNISHED / CONTRACTOR INSTALLED CFC CONTRACT OR FURNISHED / CONTRACTOR INSTALLED CL CONTRACT OR FURNISHED / CONTRACTOR CNR CORRUCARE CNR COUNTERS CNN CNR CONDERC ONTRACTOR CNR CORRUCARE CNR CONTRACT ON FURNISHED / CONTRACTOR CNR CORRUCARE CNR CONTRACT ON THAT CONTRACTOR CNR CONTRACT ON THAT ON THE INTER CNC CONTRACT ON THAT ON T	E.CONT.)CT-EREOUALEQUIPEQUIPMENTESCALESCALATORESTESTMATEETCETCETERA (AND SO FORTH)EXCEXCAVATEEXTEXISTINOEXMPEXPANDED METAL PLATEEXNPEXPANSION BOLTEJEXPANSION BOLTEJEXPANSION DINTEXPEXPANSION DINTEXEXTERIORESTEXTERIOR INSULATION FINISH SYSTEMETSEXTERIOR FINISH SYSTEMESSEXTERIOR RISULATION FINISH SYSTEMESSEXTERIOR RISULATION FINISH SYSTEMESSEXTERIOR RISULATION FINISH SYSTEMEFSEXTERIOR RISULATION FINISH SYSTEMEFSEXTERIOR RISULATION FINISH SYSTEMEFSEXTERIOR RISULATION FINISH SYSTEMESSEXTERIOR RISULATION FINISH SYSTEMEFSEXTERIOR RISULATION FINISH SYSTEMFSSEXTERIOR RISULATION FINISH SYSTEMESSEXTERIOR RISULATION FINISH SYSTEMFOCFACE OF MACLFOCFACE OF MACLFOCFACE OF WALLFFFACE OF WALLFFFACE OF MACLFFFACE OF MACLFFFACE OF MACLFFFACE OF MACLFFFACE OF MACLFTFACE OF MACLFFFACE OF MACLFF	GREP       GLASS FIBER REINFORCED PLASTIC         GL       GLASS GLAZUG         GLT       GLASS GLAZUG         GLT       GLASS WALL TILE         GLZ       GRAB BAR         GRADE, GRADE, GRADING       GRAN GANITE         GCD       GROUND FACE CONCRETE BLOCK         GT       GRUP         GT       GUTTER         GVM       GYMMASIUM         GYP       GYPSUM LATH         GYP DU GYPSUM DARD       H         HD       HAND DRYER (HAIR DRYER)         HC       HOLLOW CORE         HOW HARDWORD       H         HDD       HAND DRYER (HAIR DRYER)         HC       HOLLOW CORE         HOWD       HARDWORD         HDW       HARDWARE         HOWD       HARDWARE	M     MACH       MAG     MACNETIC       MAG     MAGNETIC DOOR HOLDER       MH     MANHACTURE (R)       MRR     MARBLE BASE       MRT     MARBLE THRESHOLD       MRT     MARBLE THRESHOLD       MRT     MARBLE THRESHOLD       MRT     MARBLE FLOOR       MB     MARKER BOARD       MAS     MASONRY       MO     MASONRY OPENING       MATL     MATKER BOARD       MAX     MAXIMUM       MECH     MECHANICAL       MC     MEODIUM DENSITY FIBERBOARD       MDD     MEDIUM DENSITY OVERLAY       MBR     MEMBER       MEMB     MEMBER       MEM     MEMBER       MEM     METAL FURING       MTL     METAL FURING       MTT     METAL ROOF DECK       MT     MIDE SC.MISCELLANCON       MISC MISCELLANCON	PLOONT.J           PERR         PERNMETER           PERNM         PERNMETER           PERN         PERNETER           PLAS         PLASTIC LAMINATE           CT.PL.         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## MATERIALS LEGEND



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# GENERAL NOTES

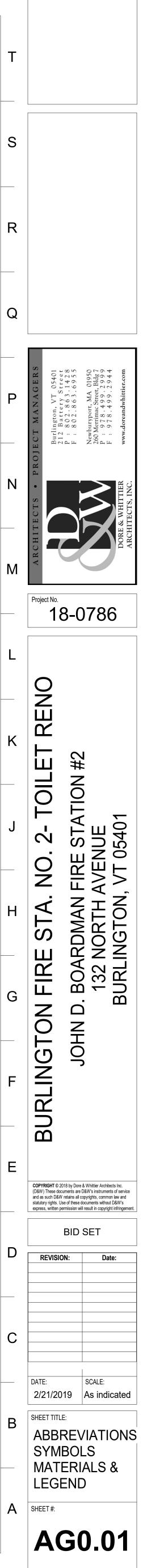
- 1. ABBREVIATIONS ON THIS SHEET APPLY TO ARCHITECTURAL DRAWINGS ONLY. THE LIST OF ABBREVIATIONS IS COMPREHENSIVE AND NOT RESTRICTED TO THOSE USED FOR THIS PROJECT - NOT ALL ABBREVIATIONS WILL BE FOUND WITHIN THE DRAWINGS.
- 2. LEGEND SYMBOLS ON THIS SHEET APPLY TO ARCHITECTURAL DRAWINGS ONLY. THE SYMBOLS LEGEND IS COMPREHENSIVE AND NOT RESTRICTED TO THOSE USED FOR THIS PROJECT – NOT ALL SYMBOLS WILL BE FOUND WITHIN THE DRAWINGS.
- 3. REPRESENTATION OF MATERIALS PATTERNS IN DRAWINGS AND DETAILS MAY BE AT A DIFFERENT APPARENT SCALE THAN THE THOSE SHOWN ON THE MATERIALS LEGEND ON THIS SHEET.
- 4. CONTRACTORS REQUIRING SLEEVES, BOX-OUTS, CORED HOLES, ETC. IN FLOORS AND WALLS TO FACILITATE THE INSTALLATION OF THEIR WORK SHALL FULLY COORDINATE THE LOCATION AND REQUIREMENTS WITH THE CM/GC AND ALL PERTINENT AND RELATED TRADES.
- 5. THE CONTRACTOR REQUIRING SLEEVES OR BOX-OUTS SHALL PROVIDE THOSE DEVICES TO THE APPROPRIATE TRADE FOR INSTALLATION.
- 6. THE CONTRACTORS FOR DIVISION 21, 22, 23, 26, 27. AND 28 WORK SHALL FULLY COORDINATE THE LOCATION AND INSTALLATION OF EQUIPMENT, PIPING, SUPPORTS, HOUSEKEEPING CURBS, DRAINS, DUCTWORK, ETC. TO PROVIDE A COMPLETE AND OPERATIONAL BUILDING. THE DRAWINGS DO NOT DEPICT THE INSTALLATION OF SUCH ITEMS WITH EXACT LOCATION; THEREFORE THE CONTRACTORS SHALL PERFORM THIS COORDINATION, AND THE OWNER WILL NOT CONSIDER ANY ADDITIONAL COSTS RELATED TO THE FIELD CONFLICTS RESULTING FROM FAILURE OF THE CONTRACTORS TO COORDINATE THEIR WORK.
- 7. CONTRACTORS REQUIRING ACCESS DOORS AND CLEANOUTS IN THE FINISHED SPACES SHALL PROVIDE DEVICES AND COORDINATE THE LOCATION WITH ALL AFFECTED TRADES. ACCESS DOORS IN FINISHED CEILINGS AND WALLS SHALL BE DOCUMENTED IN DETAIL ON COORDINATION DRAWINGS AND SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO PLACEMENT.
- 8. ALL CONTRACTORS PROVIDING "BUILT-IN" ITEMS, (INCLUDING BUT NOT LIMITED TO EQUIPMENT, CASEWORK, MILLWORK, WINDOWS, STOREFRONT AND CURTAIN WALL ASSEMBLIES, DOORS, FIELD INSTALLED GLAZING) SHALL FIELD VERIFY DIMENSIONS PRIOR TO FABRICATION.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE THERMAL AND ACOUSTICAL REQUIREMENTS OF THE FLOOR AND ROOF CONSTRUCTION, WALLS AND PARTITIONS BY INSTALLING PROPER SEALS AND CLOSURES AT THE PERIMETER OF ALL OPENINGS.
- 10. LOCATION OF ALL FLOOR DRAINS AND TRENCH DRAINS MUST BE COORDINATED WITH EQUIPMENT LAYOUTS AND RELATED TRADES.
- 11. AT ALL EXPOSED CONCRETE WALLS PROVIDE 3/4" x 3/4" CHAMFER AT OUTSIDE CORNERS (HORIZONTAL AND VERTICAL), UNLESS NOTED OTHERWISE.
- 12. WALL VR/AIB SHALL BE CONTINUOUS AND SHALL BE SEALED AT ALL EDGES OF WALL AND PENETRATIONS. REFER TO SPECIFIC DETAILS FOR TERMINATIONS AT WINDOWS, DOORS, CURTAIN WALL, TOP AND BOTTOM OF WALL, ETC. REFER TO SPECIFICATIONS AND MANUFACTURER RECOMMENDATIONS FOR ITEMS NOT SPECIFICALLY DETAILED.
- 13. ALL CMU DIMENSIONS ARE TO THE FACE OF CMU. ALL METAL STUD PARTITIONS ARE TO THE FACE OF STUD UNLESS OTHERWISE NOTED

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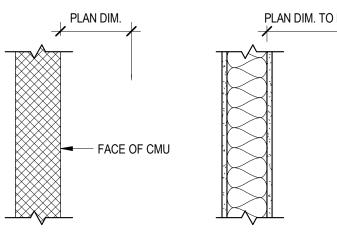
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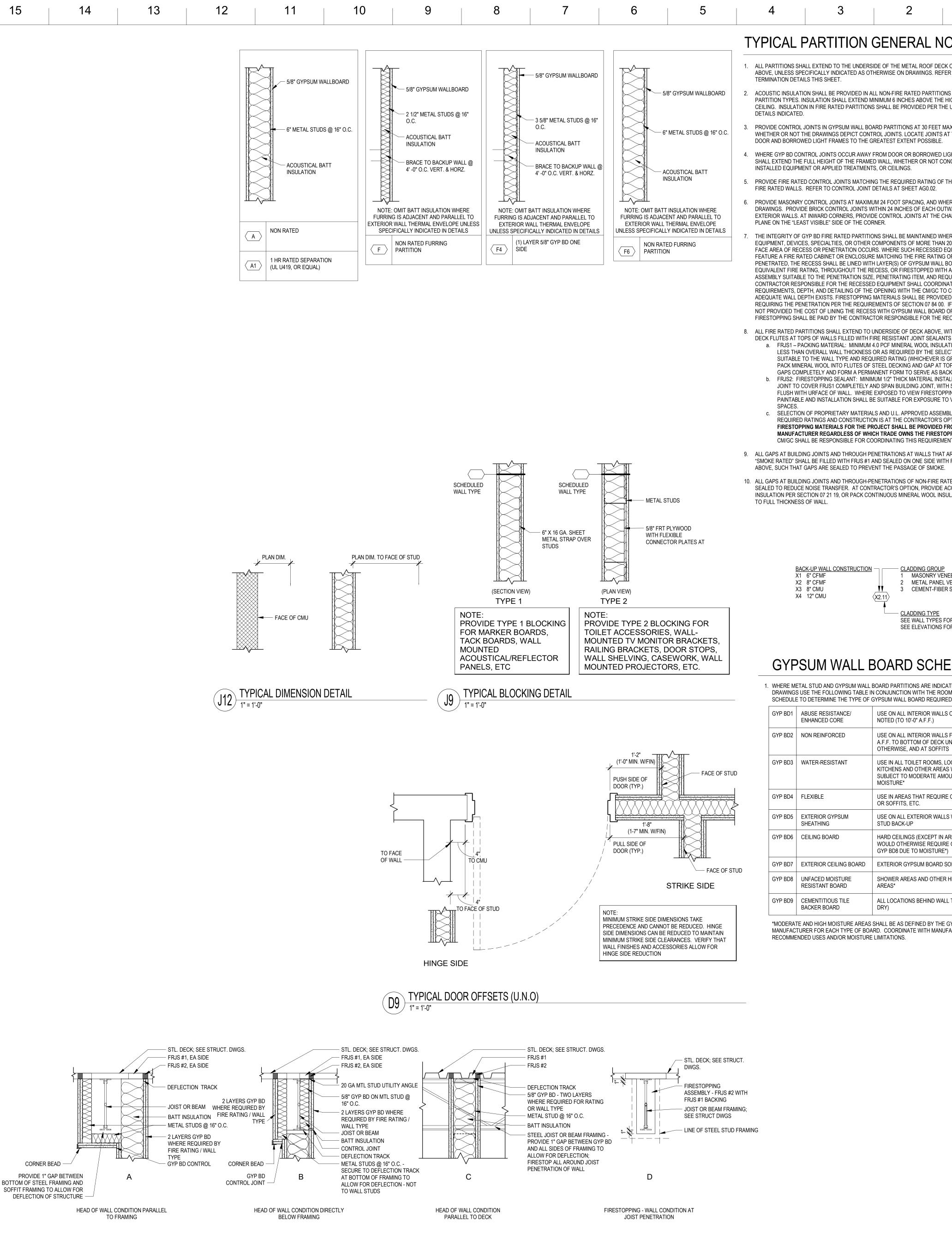
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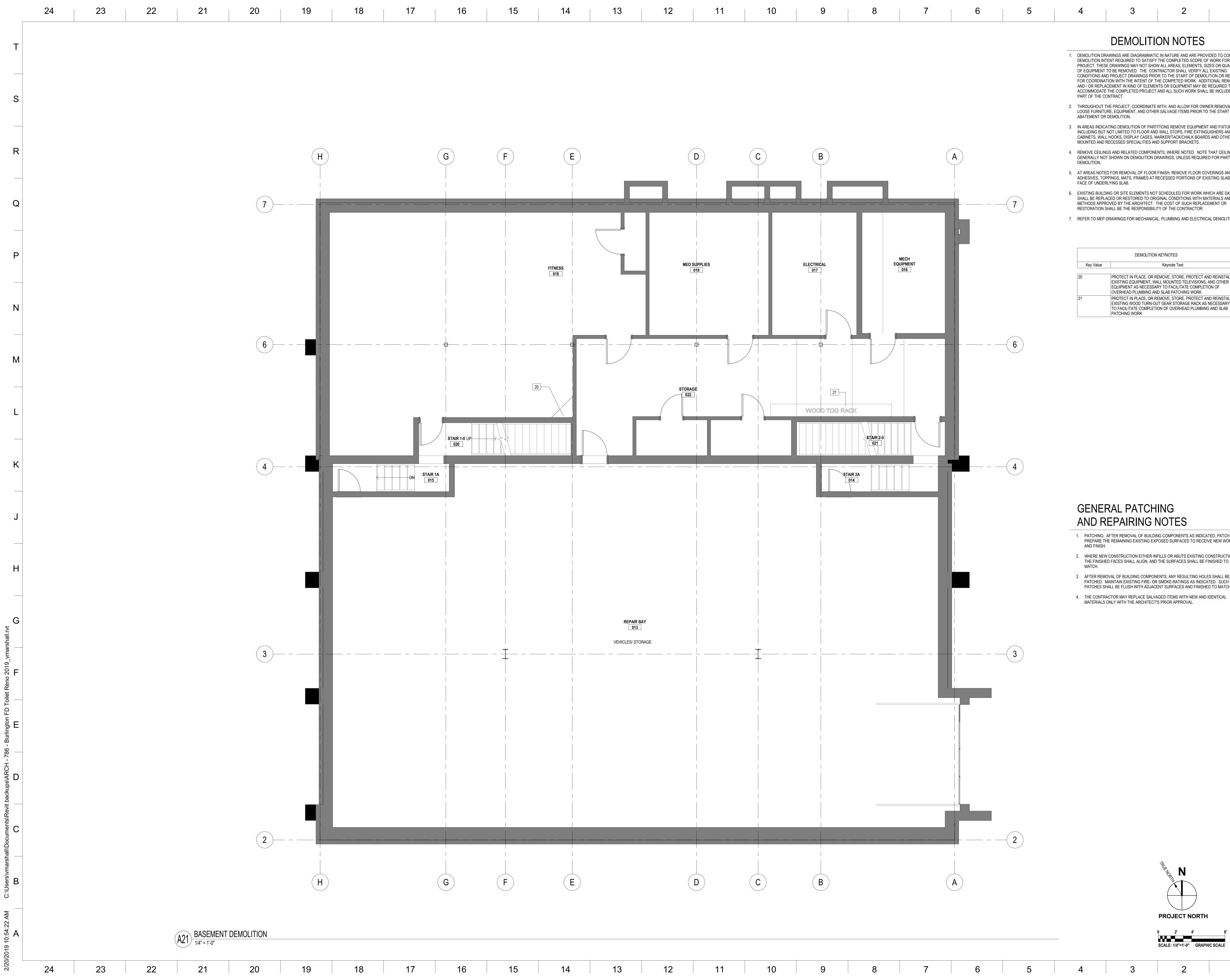




# A15 TYPICAL TOP OF STUD PARTITION DETAILS @ STRUCTURE

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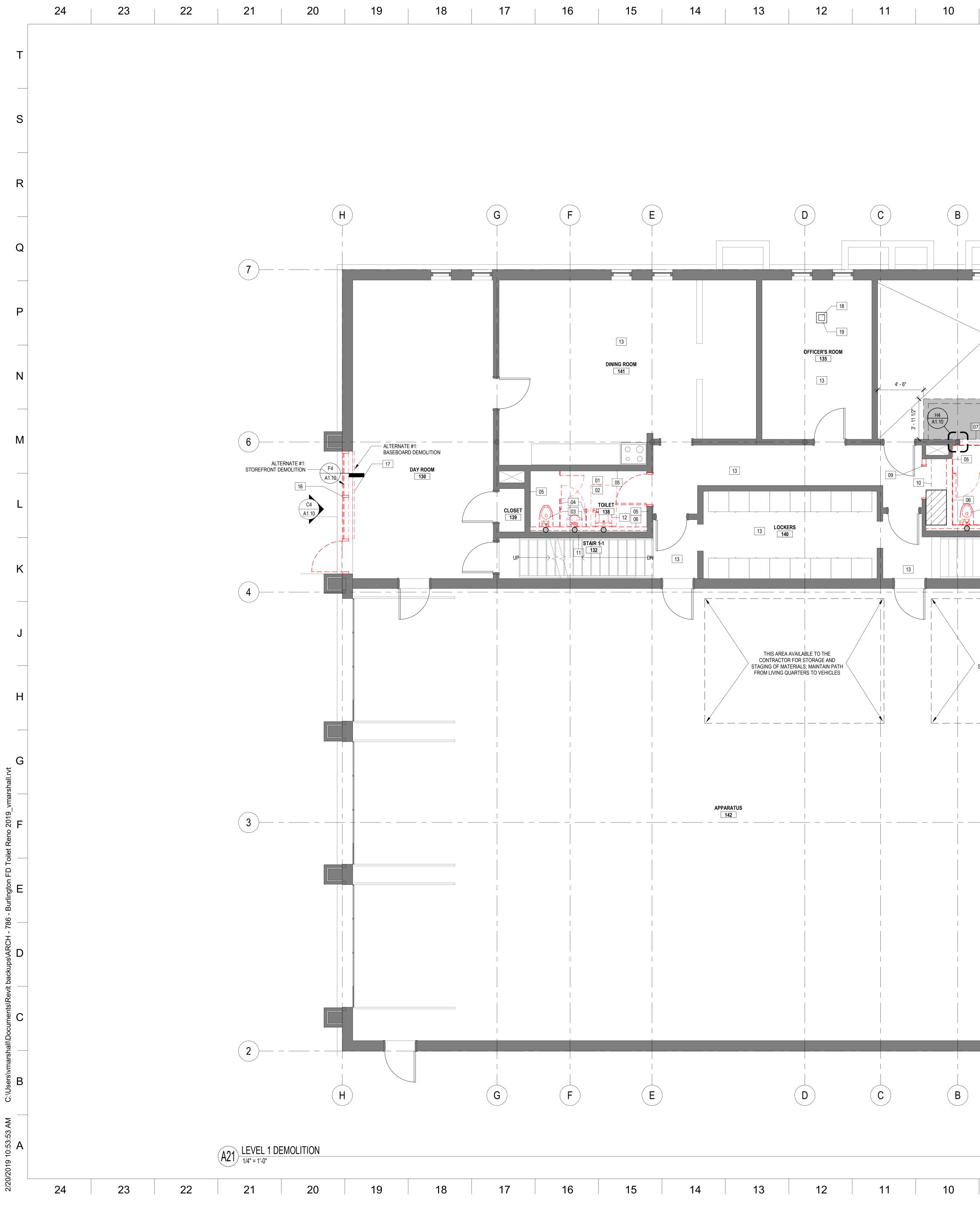
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E OF THE METAL ROOF DECK OR FLOOR DECK RWISE ON DRAWINGS. REFER TO PARTITION	T	
NON-FIRE RATED PARTITIONS AS INDICATED BY IMUM 6 INCHES ABOVE THE HIGHEST ADJACENT SHALL BE PROVIDED PER THE U.L. ASSEMBLY		
2D PARTITIONS AT 30 FEET MAXIMUM SPACING, DL JOINTS. LOCATE JOINTS AT TOP CORNERS OF EATEST EXTENT POSSIBLE.	S	
COM DOOR OR BORROWED LIGHT FRAMES, JOINTS WALL, WHETHER OR NOT CONCEALED BY SURFACE OR CEILINGS.		
THE REQUIRED RATING OF THE WALL ASSEMBLY AT TAILS AT SHEET AG0.02.		
I 24 FOOT SPACING, AND WHERE INDICATED ON HIN 24 INCHES OF EACH OUTWARD CORNER OF CONTROL JOINTS AT THE CHANGE IN SURFACE ER.	R	
S SHALL BE MAINTAINED WHEREVER RECESSED MPONENTS OF MORE THAN 20 SQUARE INCHES IN WHERE SUCH RECESSED EQUIPMENT DOES NOT MATCHING THE FIRE RATING OF THE WALL BEING AYER(S) OF GYPSUM WALL BOARD TO PROVIDE AN	Q	
ESS, OR FIRESTOPPED WITH AN APPROVED PENETRATING ITEM, AND REQUIRED RATING. THE EQUIPMENT SHALL COORDINATE THE RECESS PENING WITH THE CM/GC TO CONFIRM THAT		
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RED RATING (WHICHEVER IS GREATER). TIGHTLY EEL DECKING AND GAP AT TOP OF WALL TO FILL ENT FORM TO SERVE AS BACKING FOR FRJS2. M 1/2" THICK MATERIAL INSTALLED ON EACH SIDE OF		<b>JECT</b> M Burlingte 212 Bat P : 802 F : 802 Newburyp 260 Merrii P : 978 F : 978 F : 978
D SPAN BUILDING JOINT, WITH SURFACE OF SEALANT XPOSED TO VIEW FIRESTOPPING SEALANT SHALL BE SUITABLE FOR EXPOSURE TO VIEW IN FINISHED	N	• PRO
AND U.L. APPROVED ASSEMBLIES APPROPRIATE TO IS AT THE CONTRACTOR'S OPTION, HOWEVER ALL JECT SHALL BE PROVIDED FROM THE SAME I TRADE OWNS THE FIRESTOPPING WORK. THE RDINATING THIS REQUIREMENT WITH ALL TRADES.		CHITECTS .
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ETRATIONS OF NON-FIRE RATED WALLS SHALL BE ACTOR'S OPTION, PROVIDE ACOUSTIC FOAM INUOUS MINERAL WOOL INSULATION TO FILL GAPS	M	Project No.
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CLADDING GROUP         1       MASONRY VENEER         2       METAL PANEL VENEER         3       CEMENT EIDED SYSTEMS		<b>Q</b>
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USE IN AREAS THAT REQUIRE CURVED WALLS OR SOFFITS, ETC. JSE ON ALL EXTERIOR WALLS WITH METAL		FIRE BOARI 129 N( JRLIN
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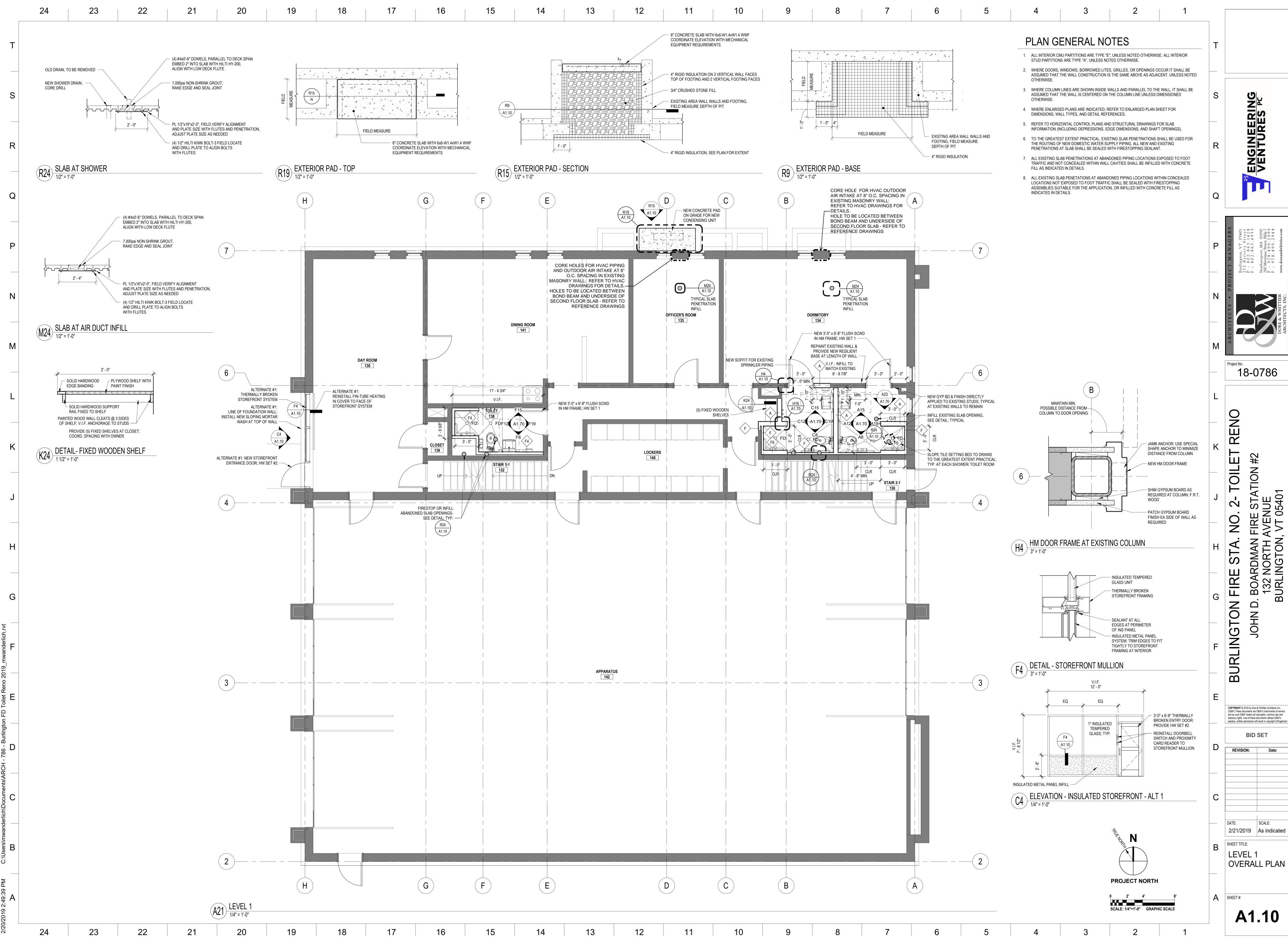
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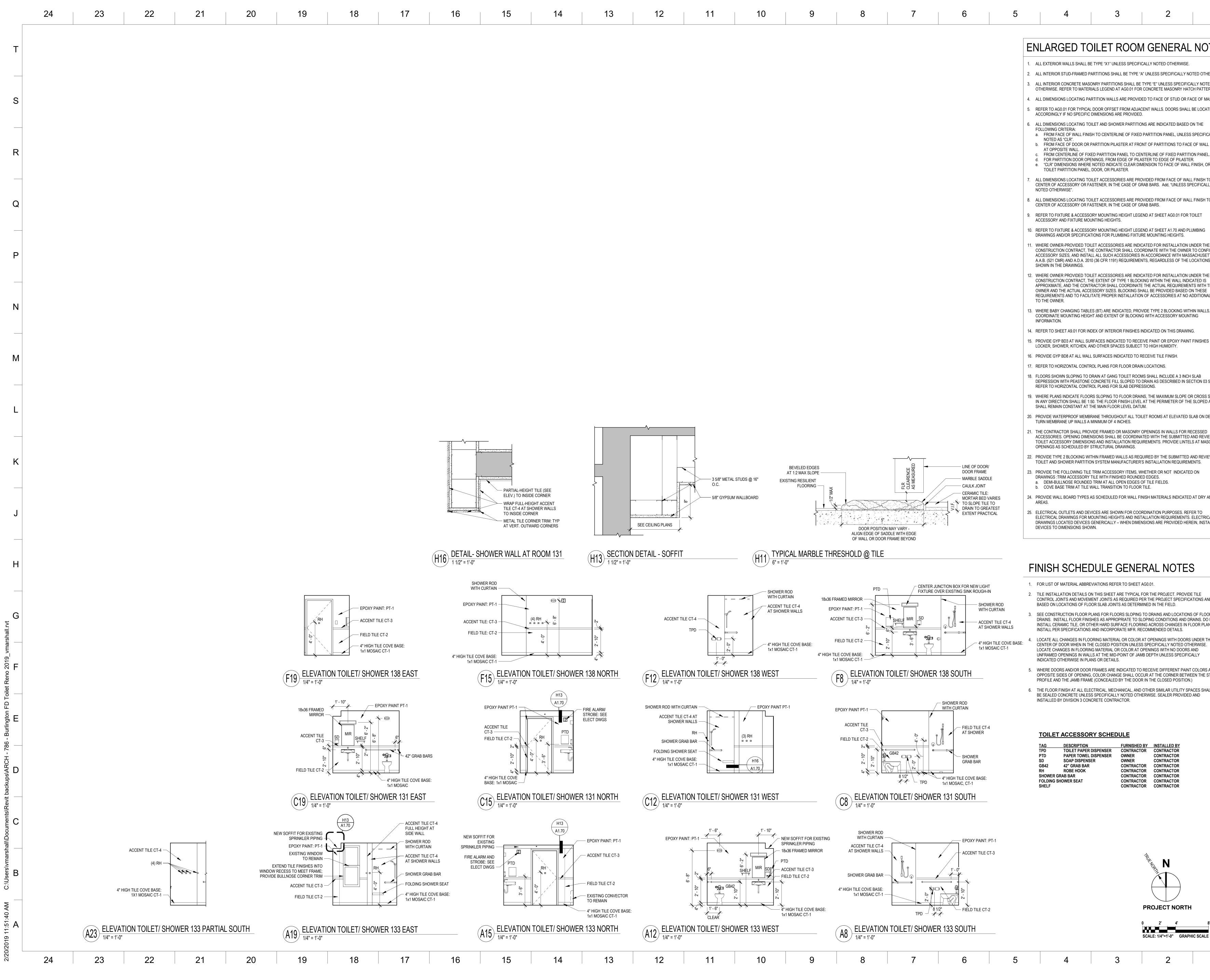


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				(7)		7. REFER TO M	IEP DRAWINGS FOR MEC	HANICAL, PLU	MBING AND ELECT	RICAL DEM
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				ARRIER WALL; NG FIRE ALARM, TV, AND DPERATIONS DEVICES		1. PATCHING	REPAIRING AFTER REMOVAL OF BUT THE REMAINING EXISTING	JILDING COMF	PONENTS AS INDIC	
07		3' - 4" 1' - 10	)" /				H. EW CONSTRUCTION EITHE HED FACES SHALL ALIGN,			
				6		PATCHED. PATCHES	MOVAL OF BUILDING COM MAINTAIN EXISTING FIRI SHALL BE FLUSH WITH AI RACTOR MAY REPLACE S	E- OR SMOKE	RATINGS AS INDIC FACES AND FINISH	Cated. Suc Hed to mat
ן _/ ו	01     TOILETS/ SHOWERS     04	15 06 05 06					S ONLY WITH THE ARCHI			
						Key Value			eynote Text	
		UF STAIR 2-1 136				01 02 03	REMOVE EXISTING FLC MEMBANES OR OTHEF SURFACE OF SLAB SU REMOVE EXISTING AC REMOVE EXISTING PL	R UNDERLAYM ITABLE TO RE OUSTIC PANE JMBING FIXTU	ENTS TO FACE OF CEIVE PROPOSED L CEILING THROUG RES AND RELATED	CONCRETE FLOORING GHOUT SPAC D PIPING. RI
				(4)		04 05 06	PLUMBING DEMOLITIO REMOVE EXISTING TO AT WALLS WITHIN SPA INTERIOR GYPSUM BC REMOVE EXISTING WA	ilet partitic ce indicated ard finish c	ON SYSTEMS COMP TO REMAIN, REMO OMPLETELY TO FA	PLETELY. OVE WALL 1 ACE OF STUI
						07 08 09	REMOVE PORTION OF LEAVE EDGES OF OPE REMOVE DOOR AND F REMOVE EXISTING HO OPENING SUITABLE TO	NING SUITABL RAME COMPL LLOW METAL	E TO RECEIVE NEV ETELY. FRAME COMPLETE	W DOOR FR
$\rangle_{s}$	THIS AREA AVAILABLE T CONTRACTOR FOR STOR/ STAGING OF MATERIALS; MAI	AGE AND				10 11	REMOVE EXISTING SH COMPLETELY. DURING DEMOLITION, STAIR. DAMAGE TO EX SIDE OF WALL SHALL I	ELVING INCLU MAINTAIN AN' KISTING CONC	DING WALL CLEAT ( EXISTING FIRE SE EALED GYPSUM BO	Eparation Oard at di
	FROM LIVING QUARTERS TO					12 13	AND SHALL BE ACCEP REMOVE EXISTING PLI MAINTAINED FOR USE ALL FINISHES, LIGHTIN REMOVE CEILINGS ON	TABLE TO THE JMBING FIXTU IN THE PROP IG, DEVICES, A	: Ahj. Ire. Rough-Ins TC Dsed Configurat And Equipment Th	) be prote Tion. His area to
						15	UTILITIES. ALL MATER CHIPPED, OR SOILED ( EXISTING FLOOR DRA SLAB INFILL DETAIL. COMPLETELY REMOVE	IALS REMOVE CEILING PANE N TO BE REM	D SHALL BE REINS LS REPLACED WITH DVED; SLAB TO BE	TALLED, WI H NEW. PATCHED.
						17 18	SUITABLE TO RECEIVE REMOVE EXISTING FIN STOREFRONT FRAMIN REMOVE EXISTING VC FOR PATCHING/INFILL	I-TUBE HEATIN G - REFER TO T AT GRILLE T	NG AND COVER AS HVAC DRAWINGS. O NEAREST TILE JO	REQUIRED
						19	EXISTING FLOOR GRIL OPENING TO RECEIVE			DRAWINGS
				3						
				2				AUENOR	N	
			A							
								PRO	JECT NORT	н
								SCALE	1/4"=1'-0" GRAF	PHIC SCALE

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S	_	
PROVIDED TO CONVEY THE PE OF WORK FOR THE S, SIZES OR QUANTITIES Y ALL EXISTING MOLITION OR REMOVALS ADDITIONAL REMOVALS Y BE REQUIRED TO		
HALL BE INCLUDED AS	S	
R TO THE START OF IENT AND FIXTURES INGUISHERS AND		
ARDS AND OTHER WALL	R	
JIRED FOR PARTIAL		
EXISTING SLABS, TO		
I MATERIALS AND LACEMENT OR R. TRICAL DEMOLITION.	Q	
NOAL DEMOLITION.		R S +01 5 5 9 9 9 9 9 9 9 9 0 m
	Р	ECT       MANAGERS         Burlington, VT       05401         212       Battery       Street         P       802.863.1428       F         P       802.863.6955       S         Newburyport, MA       01950       S         Newburyport, MA       01950       S         P       978.499.2999       F       S         P       978.499.2944       Www.doreandwhittier.com
CATED, PATCH AND EIVE NEW WORK	N	CHITECTS - PROJI
CONSTRUCTION, FINISHED TO		
DLES SHALL BE CATED. SUCH HED TO MATCH.	M	AR
D IDENTICAL		Project No. 18-0786
	L	
WATERPROOFING		9
CONCRETE SLAB. LEAVE FLOORING SYSTEMS. GHOUT SPACE. D PIPING. REFER TO		RENO
NFORMATION. PLETELY. OVE WALL TILE AND ACE OF STUDS.	K	
ETELY. TE NEW DOOR OPENING. N DOOR FRAME.		- TOILE <sup>-</sup> TATION #2 E 101
ELY. LEAVE EDGES OF	J	). 2- T E STAT NUE 05401
EPARATION RATING OF OARD AT DEMOLITION D LIKE NEW CONDITION		NO. FIRE 9 AVENU VT 05
D BE PROTECTED AND TION. HIS AREA TO REMAIN.	Н	
te routing of New Italled, with Damaged, H New. Patched. Refer to		IRE STA DARDMAN 32 NORTH RLINGTON
M; LEAVE OPENING YSTEM. REQUIRED TO REMOVE		IRE 32 N 32 N
OINT; PREPARE FLOOR	G	
	F	
		JRL
		B
	E	COPYRIGHT © 2018 by Dore & Whittier Architects Inc. (D&W) These documents are D&W's instruments of service and as such D&W retains all copyrights, common law and
		and as such U&W retains all copyrights, common law and statutory rights. Use of these documents without D&W's express, written permission will result in copyright infringement.
	D	REVISION: Date:
	С	
		DATE: SCALE: 2/21/2019 As indicated
	В	SHEET TITLE:
Ή		FLOOR PLAN- FIRST FLOOR
8'	A	SHEET #:
PHIC SCALE		AD1.10
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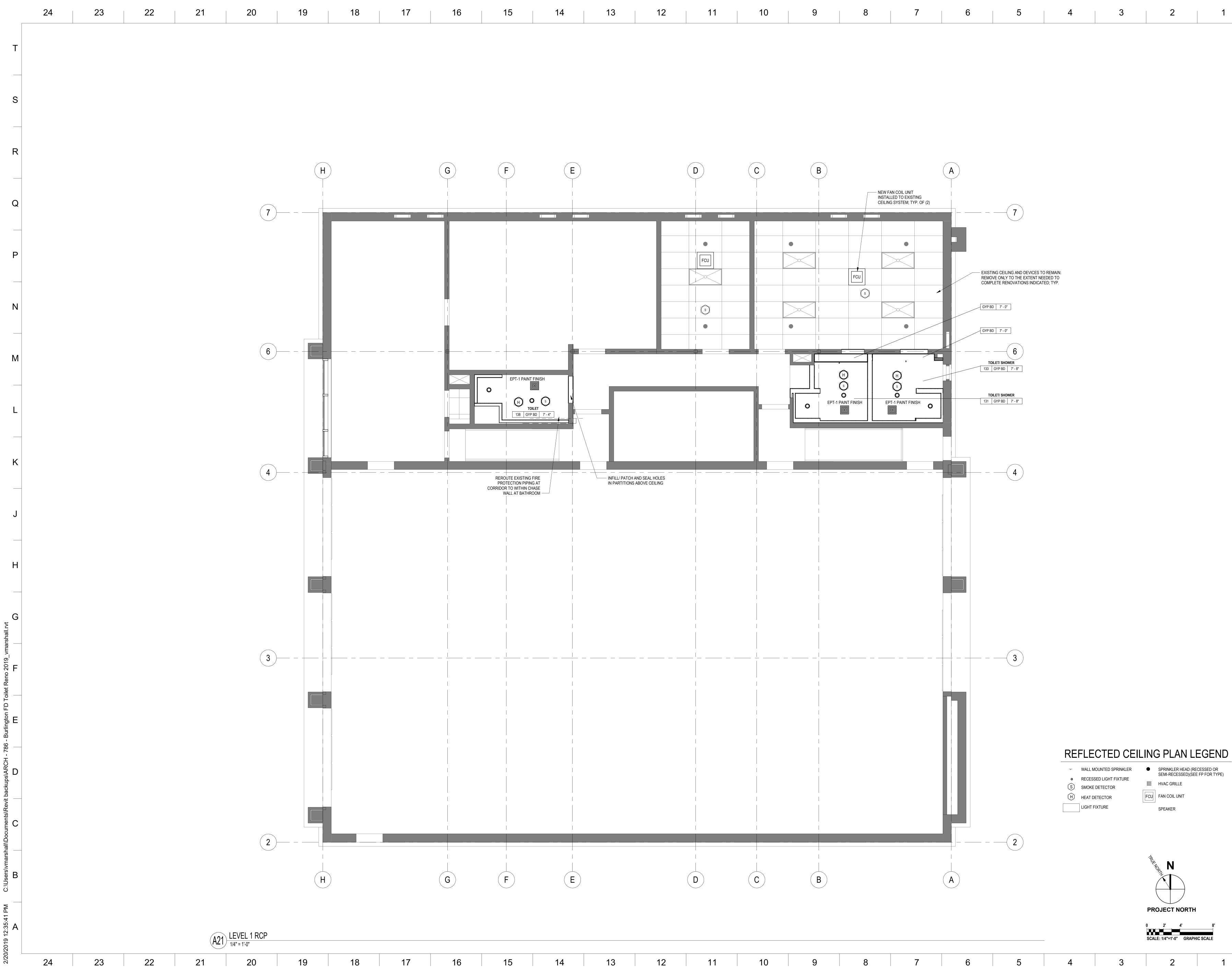


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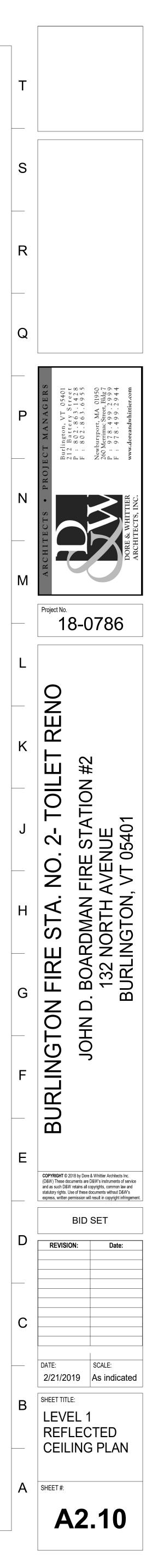
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DER THE D CONFIRM CHUSETTS CATIONS	Ρ	E C T M A N A G E R S Burlington, VT 05401 212 Battery Street P : 802.863.1428 F : 802.863.6955 Newburyport, MA 01950 260 Merrimac Street, Bldg 7 P : 978.499.2949 F : 978.499.2944 www.doreandwhittier.com
Der The Ted IS With The These Ditional Cost		PROJECT M           Burling           Burling           212 Bi           P : 80           F : 80           Newbury           260 Merri           P : 97           F : 97           F : 97           P : 97
WALLS. G	N	T S •
NISHES IN ALL	M	ARCHITEC ARCHITEC DORE & W ARCHITEC
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		COPYRIGHT © 2018 by Dore & Whittier Architects Inc. (D&W) These documents are D&W's instruments of service and as such D&W retains all copyrights, common law and statutory rights. Use of these documents without D&W's express, written permission will result in copyright infringement.
		BID SET
		REVISION: Date:
	С	
		DATE: SCALE: 2/21/2019 As indicated
	B 	ENLARGED TOILET ROOM ELEVATIONS

A SHEET #:

A1.70



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#### KEYED NOTES:

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PLUMBING FIXTURES & ASSOCIATED PLUMBING SERVICES TO BE DEMOLISHED. REMOVE DCW, DHW, AND SANITARY WASTE PIPING TO BASEMENT. SEE BASEMENT DEMOLITION PLAN FOR CONTINUATION.  $\cup$ 

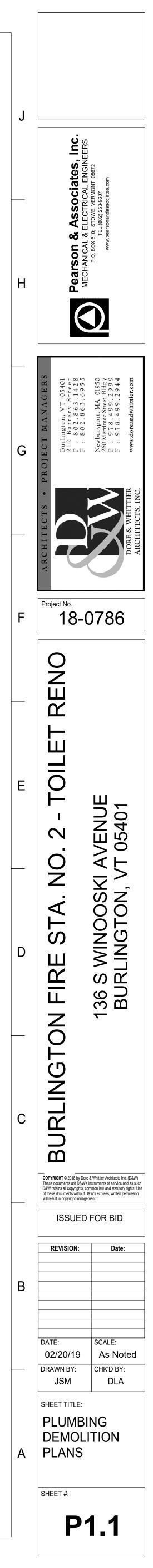
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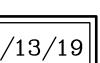
- 2 EXISTING DCW & DHW PIPING SHALL BE REMOVED FROM FIXTURES ABOVE BACK TO VALVES.
- 3 REMOVE EXISTING SANITARY WASTE PIPING BACK TO MAIN AND CAP.

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#### FIRE PROTECTION NOTES:

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1. SPINKLER CONTRACTOR TO PERFORM THE FOLLOWING WORK 1.1. REMOVE EXISTING SPRINKLER HEADS IN TOILET ROOM OFF OF DORM ROOM – TWO HEADS TOTAL 1.2. SPRINKLER LINE WILL BE ENCLOSED IN A SOFFIT AS PART OF THE NEW WORK. PROVIDE TWO NEW SIDEWALL HEADS IN NEW SOFFIT.

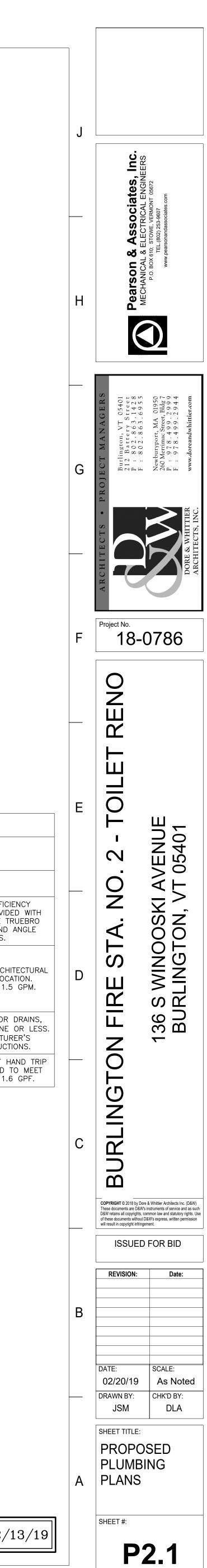
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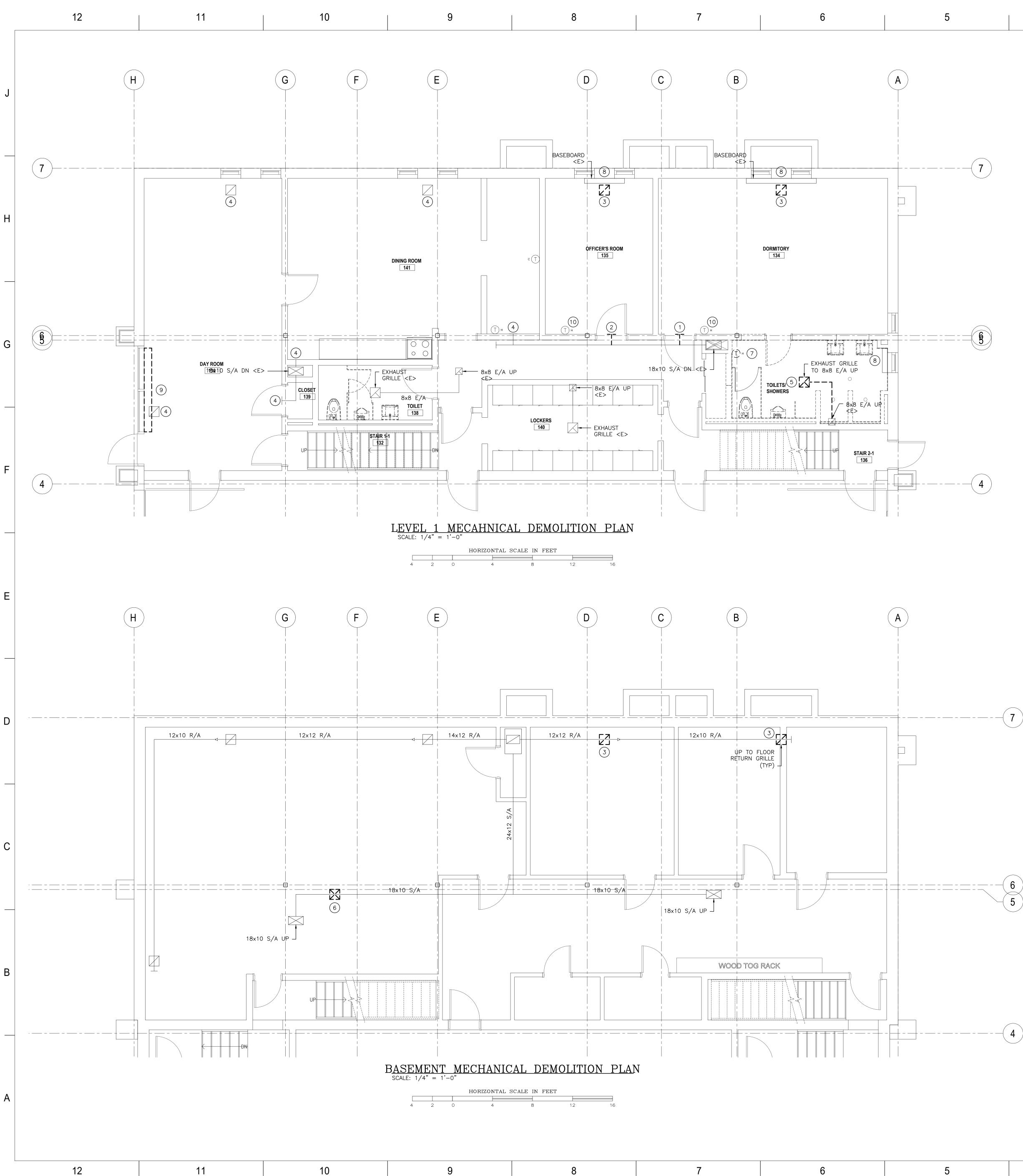
		PLUMBING FIXTURE	SCH	EDUL	Æ		
ITEM	MANUFACTURER & MODEL NO.	TRIM & ACCESSORIES	CONNECTION SIZES			5	REMARKS
			WASTE	VENT	CW	HW	
FD-1	FLOOR DRAIN – ZURN MODEL ZN415S-P[½]-Y	PROVIDE WITH TYPE 'S' STRAINER, ½" TRAP PRIMER	3"	1½"	1/2"	-	_
L-1	WALL HUNG LAVATORY – AMERICAN STANDARD LUCERNE #0355.012 THREE HOLE (ADA COMPLIANT)	FAUCET: SYMMONS MODEL S-9610-0.5-G. PROVIDE CHROME STOPS, FLEXIBLE PIPING CONNECTIONS, CHROME TAIL PIECE, AND CHROME P-TRAP	1½"	1 ¼"	1/2"	1⁄2"	LOW FLOW HIGH EFFICIENCY AERATORS TO BE PROVIDED WITH THIS FAUCET. PROVIDE TRUEBRO LAVGUARD P-TRAP AND ANGLE VALVE COVERS.
SH-1	SHOWER TO BE TILED BY GC.	PROVIDE WITH HUD WOOD BLOCKING. VALVE & TRIM: SYMMONS MODEL 3503–H321–V–CYL–B–1.5. MOUNT CONTROLS AS SHOWN ON ARCHITECTURAL PLANS.	1½"	1½"	1⁄2"	1⁄2"	MC SHALL REFER TO ARCHITECTURA PLANS FOR DRAIN LOCATION. SHOWERHEAD TO BE 1.5 GPM.
TP-1	TRAP PRIMER PPP, INC MODEL P-1	_	_	_	_	_	PROVIDE FOR ALL FLOOR DRAINS, INSTALL ON 1½" DCW LINE OR LESS REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
WC-1	SLOAN ADA WATER CLOSET, MODEL ST-2029	FLUSH VALVE: SLOAN ROYAL 113; SEAT: CHURCH MODEL 100EC; PROVIDE WITH CHROME SUPPLIES & STOPS, WAX RING.	3"	1½"	1/2"	_	PROVIDE WC WITH RIGHT HAND TRI LEVER WHERE REQUIRED TO MEET ADA REQUIREMENTS. 1.6 GPF.
L		1	1	1	1	1	1

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# KEYED NOTES:

(1) EXISTING 26x6 WALL GRILLE TO BE REMOVED. PATCH & SEAL DUCT. (2) EXISTING 18x6 WALL GRILLE TO BE REMOVED. PATCH & SEAL DUCT. (3) EXISTING FLOOR RETURN REGISTER TO BE REMOVED. PATCH & SEAL DUCT. (4) EXISTING SUPPLY OR RETURN GRILLE TO REMAIN. (5) EXISTING CEILING EXHAUST GRILLE TO BE REMOVED. 6 CAP & SEAL EXISTING 12x12 SUPPLY ON BOTTOM OF DUCT. 7 EXISTING THERMOSTAT TO BE REMOVED AND RELOCATED. SEE PROPOSED PLAN FOR NEW LOCATION. 8 REMOVE EXISTING BASEBOARD. REMOVE PIPING TO CHASE ON NORTH END AND BELOW FLOOR ON SOUTH END. 9 ADD/ALTERNATE: REMOVE EXISTING BASEBOARD TO ALLOW FOR STOREFRONT REPLACEMENT. (10) EXISTING THERMOSTAT TO BE REMOVED.

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#### KEYED NOTES:

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(1) VERIFY EXACT LOCATION IN FIELD PRIOR TO COMMENCEMENT OF WORK.

2

2 BALANCE TO 125CFM.

(3) BALANCE TO 145CFM.

(4) RELOCATED THERMOSTAT FOR TOILET ROOM BASEBOARD. INSTALL 60"AFF.

5 CONDENSING UNIT TO SIT ON CONCRETE HOUSEKEEPING PAD. SEE ARCHITECTURAL PLANS FOR PAD DETAILS.

6 SUPPORT FROM DECK ABOVE CEILING. COORDINATE MOUNTING HEIGHT WITH

ARCHITECTURAL PLANS. (7) NEW EXHAUST GRILLES - PRICE MODEL 500.

(8) ADD/ALTERNATE: RE-INSTALL BASEBOARD AFTER NEW STOREFRONT IS INSTALLED.

9 RE-BALANCE EXISTING FAN TO NEW CFM VALUES SHOWN. PROVIDE BELTS AND SHIEVES AS REQUIRED.

10 NEW STERLING MODEL LCS-10. 2-ROW, ¾"C, 950 BTU/ft, 36" LONG. MOUNT 5" ABOVE FLOOR. PIPE TO EXISTING ¾"HW FEEDS.

1) NEW VRF THERMOSTAT. THERMOSTAT TO CONTROL FAN COIL AND BASEBOARD ZONE VALVE SERVING THIS ROOM.

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					CE CE LO					
I		PART	1 – GE	NFRAI	SECHO	N 15000 – MECHANICAL C	JUITLINE SPECIFICATIONS			2
J		1.1	DESCR							
			A.			aterial and equipment relat 2 as shown on these draw		_		6
				1.	Scope a.	with new per new layou	ures from three (3) toilet t shown on plans. Provide vent piping, fittings and a	e all domestic hot and		7
					b.		g the Office and Dorm ro the plans	oms shall be removed		8
Н					c.	Addition of a VRF systen provide ventilation, air o Cooling will be provided	n to the Dorm and Office conditioning and heating through a ceiling mount ng mounted unit being th	to these spaces. ed unit. Heating will be		9
					d.	accommodate the new t	shall be modified as show toilet rooms. The system lifications to existing fan s	shall be rebalanced per		1 Γ 2 – PROE
G					e.	and replaced with new. and new shower installa existing hot water brand	g baseboard in the toilet New baseboard to fit bet ition. New baseboard to h th lines. Thermostat to be position as shown on pla rmostat to zone valve	ween existing chase be piped into the relocated from	2.1	MATERIA A. P r B. A n
U			В.	2. Drawir	compl the W	not specifically shown or s lete operation of all systen 'ork and to comply with all	ns and to satisfy the desig	n intent inherent in	2.2	C. F r PIPING A. A
			D.	1.	Contra scope not in laying	act drawings are, in part, d of work and indicate, in ge dicate every required offse out the work. Consult all ing the work and to verify	eneral, arrangement of th et, fitting, valve, etc. Folle Drawings to become fam	e equipment and do ow these drawings in iliar with all conditions		B. II F F C F
F			C.	2. Definit	and d	mable changes required by uctwork, etc.) shall be mad	-			C. A F D. C
				1.	implie	ide" shall have the same m ed either on the drawings c led unless specifically note	or in these specifications			E. E M F. F
		1.2	QUALI	ry Assu	RANCE				2.3	QUALITY
			A.			fied in Division 15 shall be operience in the particular		vorkmen qualified by		A. C B. F
E			B.	Submi Submi mecha drawir	ttals for ttals and anical ec ngs are t	copies of all submittal data equipment requiring elect d/or shop drawings are to quipment that the contract to be identified with numb for specifications.	trical service shall include be edited to show specifi for intends to provide. Su	wiring diagrams. c data for the bmittals and/or shop	2.4	C. F D. F QUALITY
			C.	Substit	Where is inte fulfill	or Specified Materials: e a specific trade name, mainded to establish the qual design criteria and shall no etition among manufacture	ity, style and type of equi ot be construed as restrict	pment necessary to		A. C B. F C. C
				2.	The sp	pecific name and model nu ame in the specification is	mber scheduled on the d	-	2.5	D. S JOINTS
				3.	Contra	actor may propose substitu	utes.		210	A. E
D					a.		ent other than that desig bstitute whether referen			S F
					b.		ution shall be in the form anges in the work associa	•		B. S
					c.	The change shall include associated with the char	e the mechanical and all c nge.	ther disciplines		C. s
					d.	Refer to Division 1, Gene substitutes.	eral Requirements for pro	cedures to propose		F F
С				4.	substi costs chitec	actors shall be held respon itutions of equipment and to other trades in making s t/Engineer of equipment c actor of this responsibility.	shall bear any and all incr said substitutions. Appro other than the specified d	eased costs as well as val by the Ar-	2.6	D. C SCHEDUL A. L
				5.	the su neces prepa	nstances, contractors shal Ibstitute to the equipment sary for proof of equality, f red and accompany the su tect/Engineer.	hereinafter specified. Al function and space requir	l data and information ements shall be	Dome: Dome:	ervice - estic Water
				6.	qualit	event the substitute mate y standards, the Contracto ment and bear all costs to	or shall provide the specifi	ed material or	Sanita Hot W	ary Waste P ary Vent Pip /ater Heatir /ater Heatir
В		1.3		PERMIT						ondensate eration Pip
D			A.	Compa	anies' la	all Federal, State, Municipa ws, ordinances and regula		-		
		1.4	OPERA A.	Upon o deliver Prepar	complet r to the re manu	NTENANCE MANUAL tion of this portion of the v Architect/Engineer three c ials in durable plastic binde	copies of a manual descril	ping the system.	2.7	INSULATI A. II
				least tl 1.		fication on, or readable th	rough, the front cover sta	iting general nature of		А. П В. Т С
				2.		anual. y typewritten index near th nation as to location in the		-		122
A				3. 4.	A sim each p	y of all reviewed submittal plified description of the o piece of equipment within prted with a schematic flow	peration of all systems in each system. These desc	-		3 4 5
					Sahho		. «.«Бгиш.			

		8		7		6		5
	explanation of the contro structions wherever applications		em along with the following	g C		B: Rigid phenolic foam insulation, Arr rvice vapor barrier jacket.	mstrong Accotherm or equ	al, jacketed with a
a.		es for fire or failure of	major equipment.		1.	K: 0.23 BtuH in./°F sq. ft. at 75°F m	-	
b.	Normal starting, ope	ration, and shutdown.			2. 3.	Operating temperatures: -40°F to Jacket water vapor permeance: no	ot more than 0.02 perm./ind	
c.	Summer or winter sh	utdown.			4.	Seal vapor barrier jacket laps and l Armstrong 520 adhesive, or a conv	ventional lap-seal adhesive.	•
	outline of a preventive m		-		5.	Fitting covers: fabricated and insta recommendations with all joints se		inufacturer's
	clude a schedule of inspect aintenance and inspection			D	. Туре	C: Flexible, elastomeric thermal insul	ation, Armstrong Armaflex	ll or equal.
Со	mplete name and address	of nearest vendor of re	eplaceable parts.		1. 2.	K: 0.27 BtuH in./°F sq. ft. at 75°F m Operating temperatures: -20°F to	-	
Со	py of all guarantees and w	arranties issued.			3. 4.	Water vapor permeance: not more Seal seams and butt joints with Ar	e than 0.20 perm./inch.	
					5.	Fitting covers: fabricate and install recommendations.	_	acturer's
	here contents of manual in		catalog pages, clearly n and delete, or otherwise		6.	Type C insulation shall not be used	I in air plenums or where p	rohibited by cod
cle	early indicate, all manufact			E.	<i>,</i> ,	D: Plain, semi-rigid fiberglass board in I or equal.	sulation, Owens-Corning F	iberglass 703
	arantee letter from Contra	actor.			1.	K: 0.23 BtuH in./°F sq. ft. at 75°F m		
стѕ					2. 3.	Operating temperatures: 0°F to 45 Density: 3 lb./cu. ft.		4.21
					4.	Secure insulation in place with mir Butt all joints firmly together.		
	d install only new materia	s and equipment of the	e latest design of the		5.	Finish: embed reinforced fiberglas Lagtone cement; apply second coa appearance.		
	manufacturers.				6.	Cleanouts, nameplates, and manh insulation on surrounding surfaces		neatly bevel
	irer unless otherwise speci		be the product of the same	F.		E: Foil-reinforced kraft faced vapor b	oarrier jacketed, rigid fiberg	lass board
	the proper trades, all man Il equipment.	ufacturer's wiring diag	ams for installation of			ition, Owens-Corning Fiberglass 705 I		
					1. 2. 3.	K: 0.23 BtuH in./°F sq. ft. at 75°F m Operating temperatures: 0°F to 45	50°F.	ch
pipe an	d pipe fittings shall meet r	uling codes and regulat	ions and shall be used and		5. 4. 5.	Jacket water vapor permeance: no Density: 6 lb./cu. ft. Box around item to be insulated w		
alled a	ccording to the ruling code	s and regulations.			<i>5</i> . 6.	of box with fiberglass blanket insu Seal all joints with FRK vapor seal t	lation.	in spaces and ve
ng in o	ng approximately as indica ccupied spaces to be conc	ealed. Install risers in c	orner as close to wall as		0. 7.	Finish: embed reinforced fiberglas second coat of 30-35 providing a c	s cloth into a coat of white	
ing mo	vithout offsets unless in su unted piping parallel to wa	-			8.	appearance. Construct insulation for items with		
sible.	hall be installed with appr	opriato provisions for r	novement and expansion			maintenance, such as split casing removed to service item.	oumps, in sections so that s	ame may be
	equate expansion joints, g		novement and expansion.	G		F: All service vapor barrier jacketed,		ation, Owens-
	ns to equipment or contro or not. Connection to wate					ng Fiberglass 705 ASJ board or equal.		
ore sta	rting installation of piping,	survey the routes and	check for interference.		1. 2. 3.	K: 0.23 BtuH in./°F sq. ft. at 75°F m Operating temperatures: 0°F to 45 Jacket water vapor permeance: no	50°F.	ch
	ite as required with the pe				5. 4. 5.	Density: 6 lb./cu. ft. Apply insulation with mechanical f		
	ipe fittings for each service		ollowing schedule:		6.	Seal all edges, punctures, and joint	-	
	G (All standards shall be of be, Type "L", hard temper:	-		Н	<i>,</i> ,	G: Foil-reinforced kraft faced vapor b ation, Owens-Corning Fiberglass T-100		
-	yvinylchloride) - ASTM D30				Grade	e, or equal.		
	n copper refrigeration tub		I.		1. 2.	K: 0.30 BtuH in./°F sq. ft. at 75°F m Operating temperatures: 40°F to 2	250°F.	
tubing	, high-density cross-linked	polyethylene with oxy	gen barrier: ASTM F 876		3. 4.	Jacket water vapor permeance: no Wrap insulation tightly on ductwo	rk with all circumferential j	oints butted and
F FITTIN	IGS (All standards shall be	of latest editions).			5.	longitudinal joints overlapped a m mechanical fasteners spaced not n Adhere insulation to sheet metal v	more than 18" on center.	
oper wa	ter tube solder joint fitting	s: Cast brass ANSI B16	18.	I.		H: Bonded mat of glass fiber insulation	-	
.C. (pol	yvinylchloride) - ASTM D30	034.			resist	ant coating and EPA - Registered anti in Teed Tough Guard or equal.		
pper ref	rigeration tube solder join	t fittings.			1.	K: 0.26 BtuH in./°F sq. ft. at 75°F m	iean temperature.	
ne mate	erial as pipe: ASTM F 1807				2. 3.	Operating temperature: to 250°F. Airstream side coating shall preven	nt insulation erosion at velo	ocities up to 6,00
					4.	fpm. Attach liner to duct with both mec		
zed Joir	nts			т	Tures	in conformance with SMACNA "Du		
x: Silver	ing Alloy: "Stay-Silv "45" o brazing flux as approved.	approved equal.		J.		r, board like insulation, Owens-Corni	ass fibers, bonded with a hig ing Fiberglass Insul-Quick In	
	ccess flux. aky joints with new pipe a	nd fittings.			1. 2.	K: 0.30 BtuH in./°F sq. ft. at 200°F Operating temperatures: to 950°F	•	
vent We	eld Joints				3.	Secure insulation and metal mesh of 16" on center.	with welded pins or studs r	maximum spacir
dered Jo	oints				4.	Finish: trowel coat of insulating ce fire retardant lagging adhesive, Fo	ster Lagton 30-70 embeddi	ing a layer of ope
	ntimony solder form as approved					weave glass cloth or canvas, overla 30-70.	apping seams 2"; finish with	ו second coat of
	cess solder and flux			K		J: Rigid hydrous calcium silic Asbestos Free insulation or equal.	ate insulation, Owens-Corn	ing Fiberglass
mpressi	on; crimp or cinch				1.	K: 0.42 BtuH in./°F sq. ft. at 200°F	mean temperature.	
•	ho cohodula a f	ranha -faut 1	A and 2 F - full a - C		2. 3.	Operating temperatures: to 1200° Insulation: fit the contour of surface	F.	ctions for pipe a
		•	4 and 2.5 of this Section. ne following materials unles	s	4.	beveled lag sections for circumfere Butt insulation at joints and hold in spaced not more than 12" on cent	ences. n place using 16 gauge stee	
	Size	Location 2.2 Pipe	2.3 2.4 Fittings Joints	L		K: ADA compliant. Insulation with shall be designed to allow access to	a white, fitted anti-microbi	
oing	<3"	Above Slab A	A C			r shall be designed to allow access to facturer:	the stop valves. Provide th	ie ionowing
ping (Alt ing	-	All D Above Slab C	D D B B		1.	Lav Guard; Truebro, Inc.		
g (Alterı ,	<3"	All C Indoor A	B B A C					
(Alterna		All D All B	D D B B					
ain Pipi	-							

Insulating material and methods of installation shall conform to the following:

Type A: One piece of half sectional fiberglass insulation jacketed with Owens-Corning Fiberglass, or equal, Fiberglass 25ASJ/SSL-II all service vapor barrier jacket.

- 1. K: 0.24 BtuH in./°F sq. ft. at 75°F mean temperature.
- 2. Operating temperatures: -60°F to 450°F.
- 3. Jacket water vapor permeance: not more than 0.02 perm./inch.
- 4. Jacket and butt strips: factory applied, self-sealing pressure sensitive adhesive or a conventional lap-seal adhesive.
- 5. Surface burning characteristic ratings as tested by ASTM E-84, UL 723, or NFPA 255 not exceeding:
- a. Flame Spread 25
- b. Smoke Developed 50

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#### 2.8 INSULATION SCHEDULE

#### A. Contractor shall provide insulation as per the following Schedule:

Service	Location	Туре	Size	Thickness
PIPING				
Heating Hot Water Piping	all	A	runouts	1⁄2"
Domestic Cold Water Piping	all	A	runouts	1⁄2″
Domestic Cold Water Piping	all	А	>= 1"	1"
Domestic Hot Water Piping	all	A	runouts	1⁄2"
Domestic Hot Water Piping	all	А	>= 1"	1-1/2"
Refrigeration Suction/gas Piping	all	С	all	1″
Plumbing vent piping	Within 6' of roof outlet	A or C	all	1"
ADA lavatory piping	Under lavatory	К	all	-
DUCTWORK				
Exhaust Air Ductwork from space	all	none	-	-
Outside Air Ductwork	all	D	all	2″

#### Notes:

- 1. Runouts are piping not more than 5 ft. in length.
- The Type A insulation noted for heating hot water piping, domestic hot water piping and domestic cold water piping applies to copper piping. If the piping is to be <u>pex</u>, Type C insulation shall be provided at the thickness noted above.

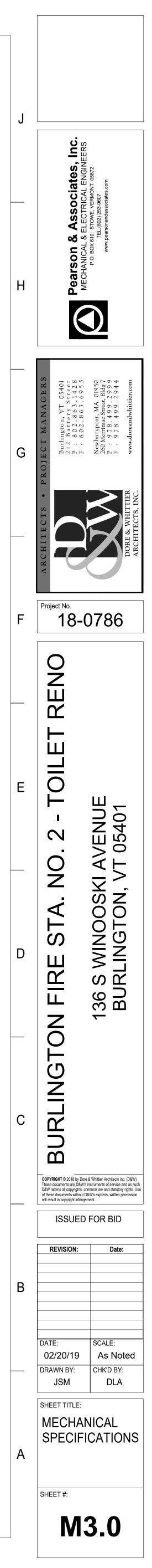
#### 2.9 ESCUTCHEONS

A. Provide chromium plated, satin finish, cast brass escutcheons for exposed piping passing through or protruding from walls, ceilings, and floors.

2.10 DUCTWORK AND FITTINGS

- A. Construct all ductwork of galvanized sheet metal unless noted otherwise.
- B. Galvanized steel shall be of lock forming quality with zinc coating of 1.25 ounces per square foot on each side. Metal gauge, joints, connections, fan casings, casements, bracing, supports and other details not listed in these specifications or indicated on the drawings shall comply with the SMACNA Duct Construction Standards and shall become part of this specification as though printed herein.
- C. Fabricate ductwork in a neat and workmanlike manner, free from dents, all joints driven home, smooth inside, neat outside, airtight and without the use of tape. Inside radius of elbows not less than 1.5 times width. Provide all square elbows with turning vanes.
- D. Fabricate branch take-offs with 45° tee connection or straight tee connection with air extractors.
- E. All low-pressure supply ducts shall be sealed to limit leakage to 5% or less of system air capacity.
- F. Fabricate and install all ductwork in accordance with recommendations and procedures of the latest edition of the ASHRAE Handbooks, all pertinent local, state, and federal codes, and the "Duct Manual of Sheet Metal Construction for Ventilating and Air-Conditioning Systems" published by the Sheet Metal and air-conditioning Contractor's National Association, Inc.
- G. Install flexible connections between all ducts and heat recovery unit, fans, etc., to prevent the transfer of equipment vibration to the ductwork.
- H. Adjoining duct inlet shall be same size and shape of equipment outlet and shall be aligned with outlet and independently supported with a minimum of 2" separation from equipment.
- I. Provide materials that meet the requirements of NFPA Pamphlet #90A, and are UL approved for use intended, as manufactured by Duro-Dyne Ventfabrics, Inc., Elgin or approved equal.
- J. Round Ductwork and Fittings above grade.
- 1. Factory manufactured or machine fabricated of galvanized steel or aluminum with lock formed joints and seams.
- 2. Low pressure round ductwork of rigid snap lock or ACME seam pipe, seal joints and seams.
- 3. Include damper with locking quadrant in collar where a manual damper is shown on plans.
- 4. Connect to rectangular ductwork with spin collars or clinch collars; seal airtight with suitable duct sealer.
- K. Flexible Ductwork
  - 1. For connections between air devices and where otherwise shown on Drawings. Manufactured flexible duct from spring steel helix with an impervious, reinforced, vapor proof, reinforced polyester outer jacket and inner core. Inner Core shall be airtight and prevent fiberglass erosion into air stream. Wire helix shall be encapsulated and prevent unraveling when cut to length. Provide 1 inch thick by 3/4 lb./cu. ft. fiberglass insulation and polyethylene jacket. Duct shall comply with UL 181 Class I Air Duct.
  - Fire Resistant, self-extinguishing, UL Standard 181, Class 1, flame spread of 25 or less and smoke development index not to exceed 50.
  - 3. Length: three (3) feet maximum, fully extended. Where more length is required, remainder shall be rigid round ductwork.
  - 4. Install duct in full extended position with no kinks or sags; use only minimum length required to make connection; support ducts, as required, to prevent sagging with 3/4" wide metal banding material; secure joints with a draw band.
- L. Duct Sealant
- 1. All duct systems shall be effectively sealed. Total allowable leakage from lowpressure ducts shall not exceed five (5) per cent of the total system design airflow rate. These requirements are in compliance with ASHRAE Standard 90.1, and SMACNA High, Medium and Low Pressure Duct Construction Standards (Seal Class A, B, C, D).
- M. Manual Damper (Volume Damper)
  - 1. Dampers shall be two gauges heavier than the duct in which installed.
  - 2. Operators shall be operated by locking type quadrant operators.
  - 3. Locate dampers at access panel locations. Coordinate final locations with
- architectural drawings.
- N. Grilles, Registers, Diffusers
  - Furnish and install air diffusers, grilles and registers of capacities and material indicated on the Drawings.

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	2.11 CONTROLS	3.4 IDENTIFICATION		
J	A. Control Sequences: 1. Exhaust Fan:	A. All piping shall be identified as to the service of the pipe and the normal direction of flow. The letters shall be at least 1" high and the flow arrows shall be at least 6" long.		
	a. Existing exhaust fan shall operate 24/7.	B. All equipment shall be identified by stenciling the title of the equipment in a position that is clearly visible.		
	<ol> <li>Toilet room baseboard (Toilet Room):</li> <li>a. Thermostat shall control zone valve</li> <li>b. When space falls below 70F (adj) zone valve shall open</li> </ol>	C. All isolation valves shall be labeled with brass tags hanging from a chain on valve.		
	c. When space rises above 70F (adj) zone valve shall close	D. Piping shall be identified at all tees, at equipment locations and in each separate room.		
	<ol> <li>Fan coil and baseboard (Officer and Dorm Rooms):</li> <li>a. Fan coil thermostat shall control both heating and cooling</li> <li>b. Cooling</li> </ol>	E. All color codes of piping shall comply with ANSI A 13.1.		
	<ul> <li>i. When the space temperature rises above 75F (adj) the fan coil shall be energized and a signal sent to the exterior heat pump</li> <li>ii. When the space temperature falls below 75F (adj) the fan coil shall be de-energized.</li> </ul>	<ul> <li>3.5 GUARANTEE</li> <li>A. The Contractor shall guarantee all materials, workmanship, and the successful operation of all equipment and apparatus installed for a period of one year from the date of final acceptance.</li> </ul>		
н	c. Heating i. Heating is two stages with the fan coil(heat pump) providing stage 1 and the baseboard providing stage 2.	3.6 TESTING, ADJUSTING, AND BALANCING		
	<ul> <li>When the space temperature falls below 70F (adj) the fan coil and heat pump shall be energized</li> <li>If temperature falls 3F (adj) below set point, then the baseboard zone valve shall be open</li> </ul>	<ul> <li>A. The Contractor shall provide for the adjusting and balancing of all systems to conform to these plans and specifications.</li> </ul>		
	iv. When the space temperature rises above 70F (adj) the baseboard zone valve shall close and the fan coil is to be de-energized.	<ul> <li>B. The following codes and standards shall be followed:</li> <li>1. NEBB: "Procedural Standards for Testing, Adjusting, and Balancing of</li> </ul>		
	B. OTHER MATERIALS	<ol> <li>Environmental Systems".</li> <li>AABC: "National Standards for Total System Balancing".</li> </ol>		
	<ol> <li>Provide all other materials such as wire, transformers, relays, etc. that may be required for a complete control system as described herein and on the Drawings. Items shall be as selected by the Contractor subject to the</li> </ol>	<ol> <li>ASHRAE: ASHRAE Handbook, 2003 HVAC Applications, Chapter 37, "Testing,</li> </ol>		
	acceptance of the Engineer. PART 3 – EXECUTION	4. Verify cleanliness of strainers.		
G	3.1 INSTALLATION	<ul> <li>5. Verify expansion tanks are not air bound.</li> <li>6. Verify the system is full of water (propulane glycol mixture (20%))</li> </ul>		
	A. Install all work with a neat and orderly appearance, as specified and as shown on the Drawings.	<ol> <li>Verify the system is full of water/propylene glycol mixture (20%).</li> <li>Check bearing and motor lubrication.</li> </ol>		
	B. Make all installations structurally sound throughout.	8. Verify air vents (manual or automatic) are installed and working properly.		
	C. Perform all work incidental to the installation of the apparatus and materials including, but not limited to, cutting, patching, trenching, excavating, backfilling, and trench	C. Air systems shall be balanced to within ±10% of values shown on plans.		
	covering. All work shall be performed by qualified workmen regularly employed in the applicable trades.	<ol> <li>Contractor shall submit a Adjusting, and Balancing".</li> <li>D. Air System Testing Procedures</li> </ol>		
	3.2 DUCTWORK INSTALLATION	1. Review the system installation from distribution units to terminal units to verify the system has been installed per plans.		
F	A. Take all necessary measurements at the building and fabricate the ductwork on the site			
	if required to ensure an approvable installation.	2. Check bearing and motor lubrication.		
	<ul> <li>B. Provide cross overs, transitions, offsets and changes in duct shapes as required in order to avoid interfering with pipe lines and to maintain full areas of ducts. No pipes shall pass through ducts.</li> </ul>	<ol> <li>Check fan belt tensions.</li> <li>Check for proper fan rotation.</li> </ol>		
_	C. The right is reserved to vary runs, shapes and make offsets during construction to meet structural interference. Consult with other trades to establish clearances before installing ductwork, grilles, registers and diffusers.	5. Check air filters. END OF SECTION		
	D. Install suitable access doors wherever necessary to permit operation, adjustment and servicing of equipment.			
Е	E. Connect the ducts, casings, and other sheet metal work to all outside air intakes and exhausts through building walls. Blank off unused portions of louvers with proper type and gauge sheet metal faced on room side with one-inch thick rigid insulation with vapor barrier.			
	F. At connections to all equipment, support ductwork independently with no weight upon the equipment.			
	<ul> <li>G. Furnish and install hangers, brackets and supports for all sheet metal work. Secure ducts passing through walls and floors to angle frames by rivets or sheet metal screws.</li> </ul>			
	<ul><li>Secure angle iron frames in place by inserts, expansion bolts or wood screws.</li><li>H. Support rigid round ducts at joints and on maximum 5'-0" centers. Support rectangular</li></ul>			
	<ul> <li>ducts to 24" wide at joints and on maximum of 6'0" centers; over 24" wide support at joints and on maximum of 4'-0" centers. Supports are to prevent sag and vibration when equipment is operating at maximum speed and capacity.</li> <li>I. Protect openings in ductwork during construction. Seal supply and exhaust boots to</li> </ul>			
D	<ul> <li>I. Protect openings in ductwork during construction. Sear supply and exhaust boots to prevent dirt and materials from entering the system during construction. Clean system thoroughly when complete.</li> <li>J. Install ductwork and accessories to provide a system free from buckling, warping, and</li> </ul>			
	K.       Insulate ductwork in accordance with the requirements of this Specification Section,			
	K. Insulate ductwork in accordance with the requirements of this Specification Section, Paragraph 2.10.			
	3.3 CLEANUP AND PROTECTION OF EQUIPMENT			
	A. The contractor is responsible to protect all equipment from the dust and dirt generated by the contractor during the construction of the project.			
С	B. No construction debris may remain in the building.			
	C. Clean up must occur twice daily or as required to keep the area clean and free from debris.			
B				
A				

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	HEAT PUMP SCHEDULE – INDOOR UNIT												
TAG SERVES		MANUFACTURER & MODEL NO.	TYPE	PERI	FAN FORMANCE	REFRIG. TYPE	COOLING CAPACITY	HEATING CAPACITY		ELECTR	CAL		REMA
				CFM	E.S.P. SETPOINT		(MBH)	@5°F (MBH)	MCA	VOLTS	PH	HZ	
FCU-1	DORMITORY	MITSUBISHI MODEL SLZ-KA12NA	CEILING	350	N/A	R-410A	13.3	7.9	12	208	1	60	1,2
FCU-2	OFFICER'S ROOM	MITSUBISHI MODEL SLZ-KAO9NA	CEILING	350	N/A	R-410A	10.9	6.4	12	208	1	60	1,2

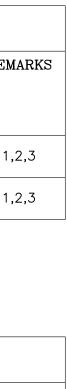
REMARKS: 1. PROVIDE A FACTORY AUTHORIZED START—UP OF THE EQUIPMENT. 2. PROVIDE WITH A MITSUBISHI MODEL PAR—33MAA—J THERMOSTAT & MODEL CN24 RELAY—KIT—CM3 HEATER ADAPTER. BOTH FIELD INSTALLED. 3. 1¼" DRAIN PIPE.

# HEAT PUMP SCHEDULE - OUTDOOR UNIT

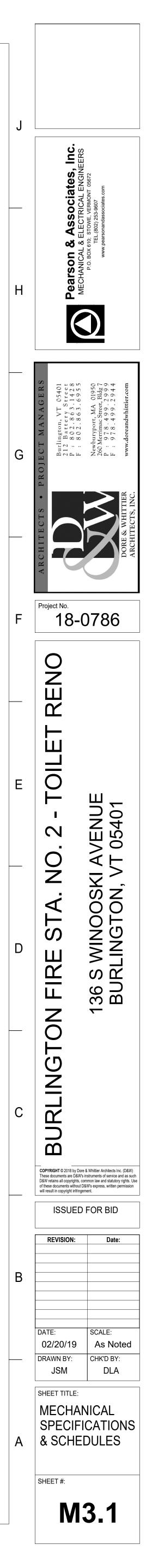
TAG	MATCHED			COOLING		EI	LECTRI	CAL		
	UNIT TAG	LOCATION	MANUFACTURER & MODEL NO.	CAPACITY (TONS)	VOLTS	PH	Hz	MCA	МОСР	REMARKS
CDU-1	FCU-1, FCU-2	OUTDOORS	MITSUBISHI MODEL MXZ-ZC20NAH72	1½	208	1	60	29.5	40	1,2
REMARKS:	1			1					·I	

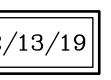
1. INSTALL EQUIPMENT, REFRIGERANT PIPING, POWER AND CONTROLS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. 2. PROVIDE A FACTORY AUTHORIZED START-UP OF THE EQUIPMENT.

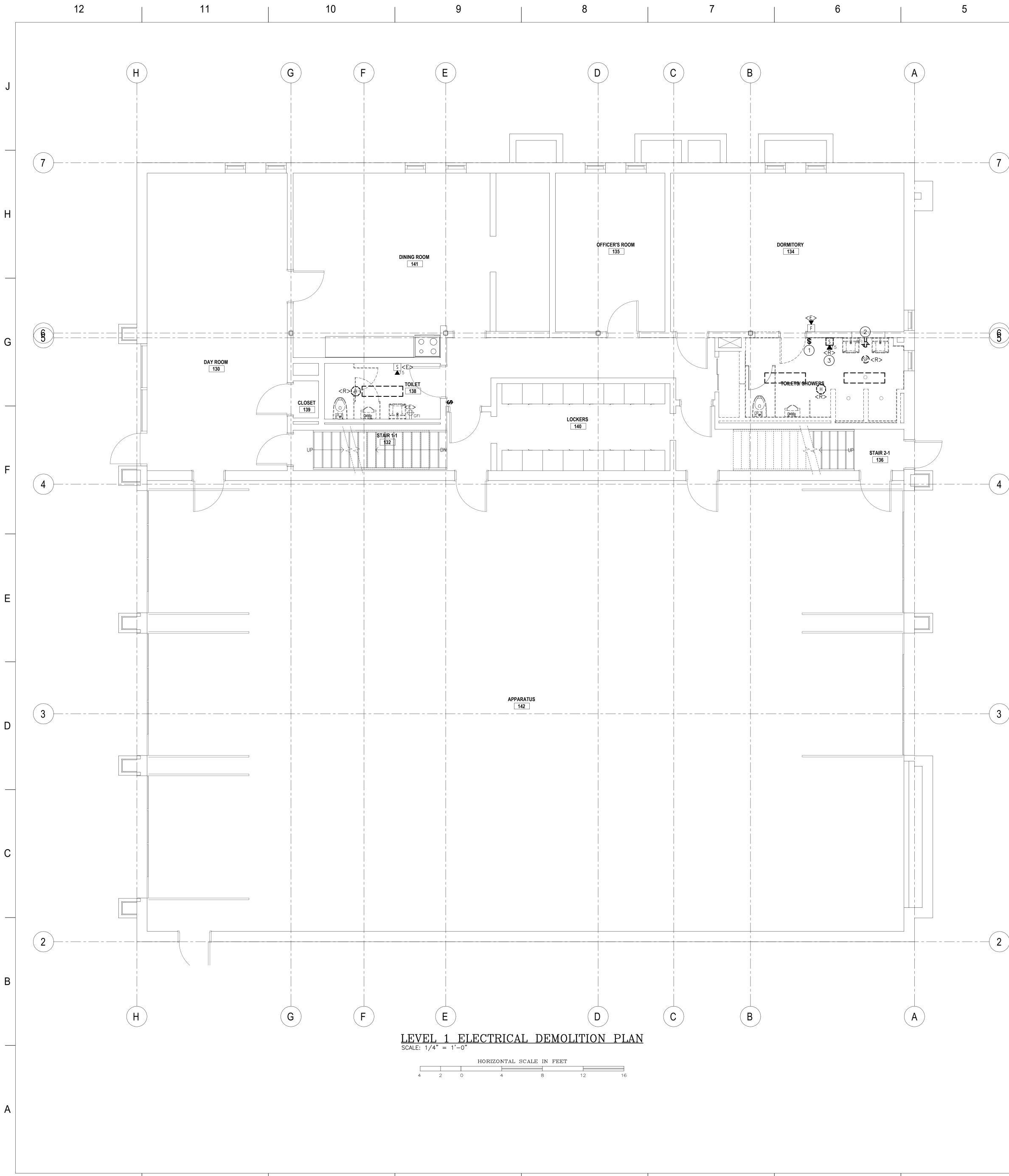
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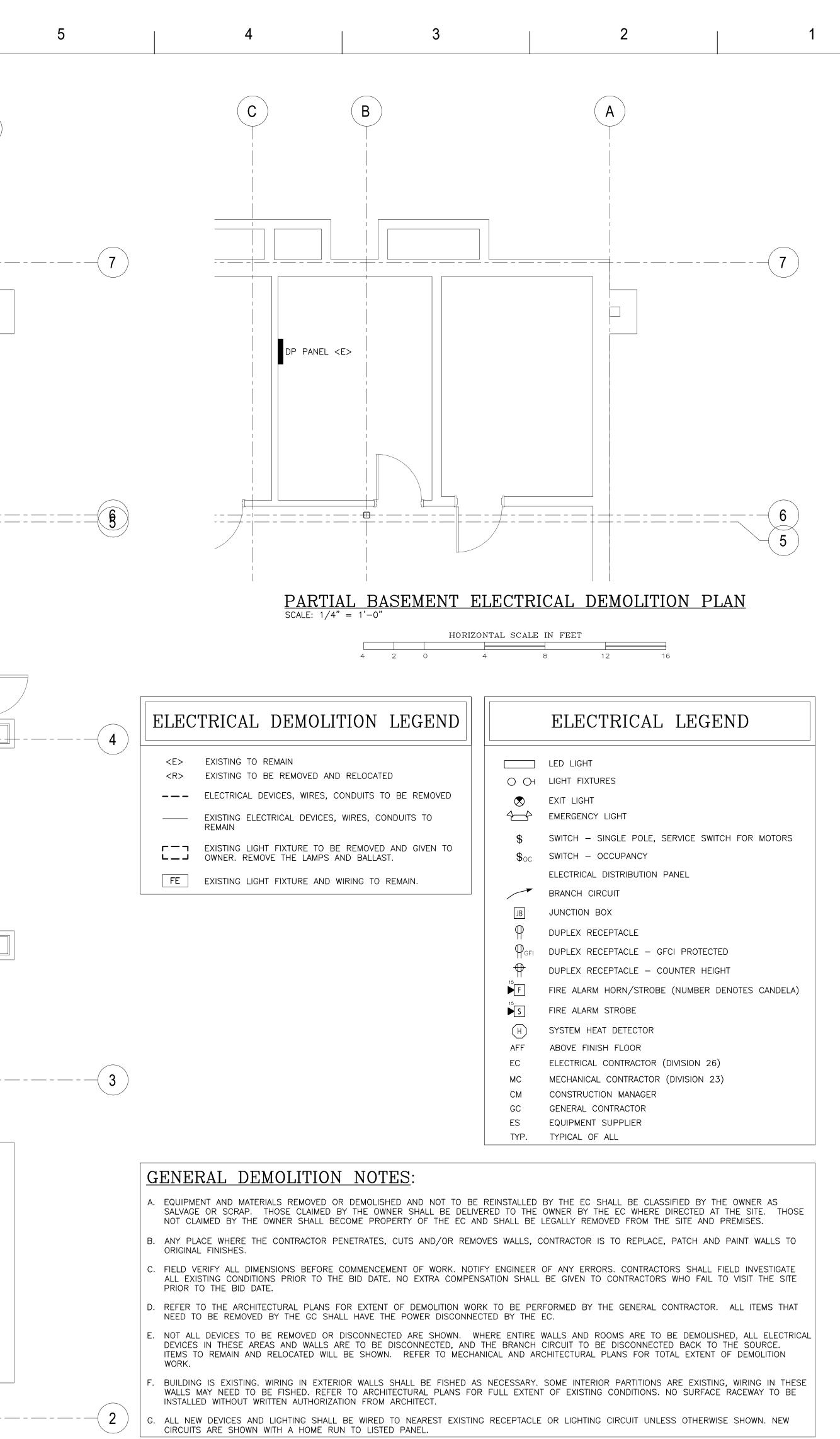
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KEYED NOTES:

1) SALVAGE AND REUSE EXISTING LIGHTING CIRCUIT.

2 SALVAGE AND REUSE EXISTING RECEPTACLE CIRCUIT.

 $\bigcirc$  SALVAGE EXISTING FIRE ALARM WIRING AND EXTEND AS REQUIRED, REFER TO PROPOSED PLAN.

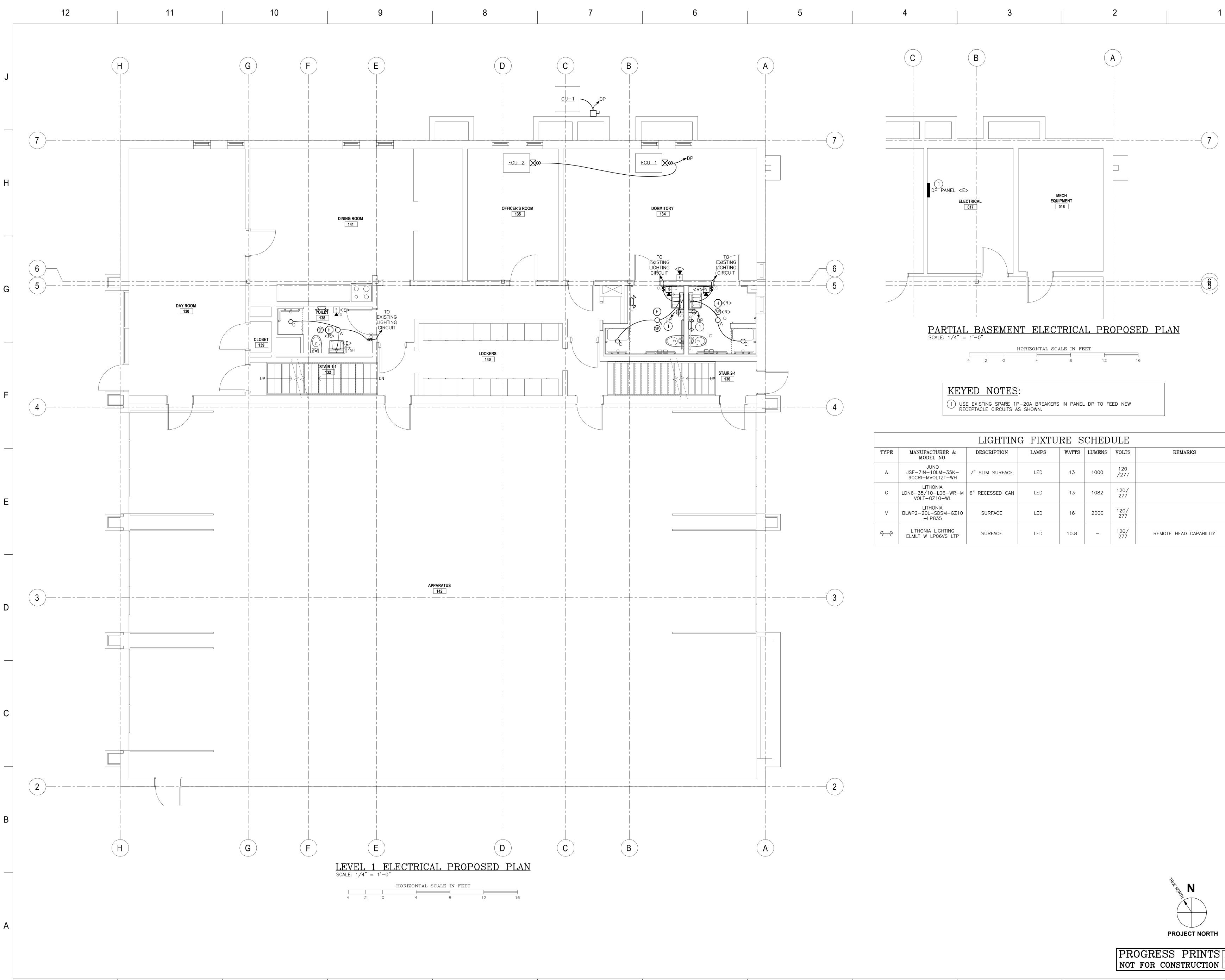
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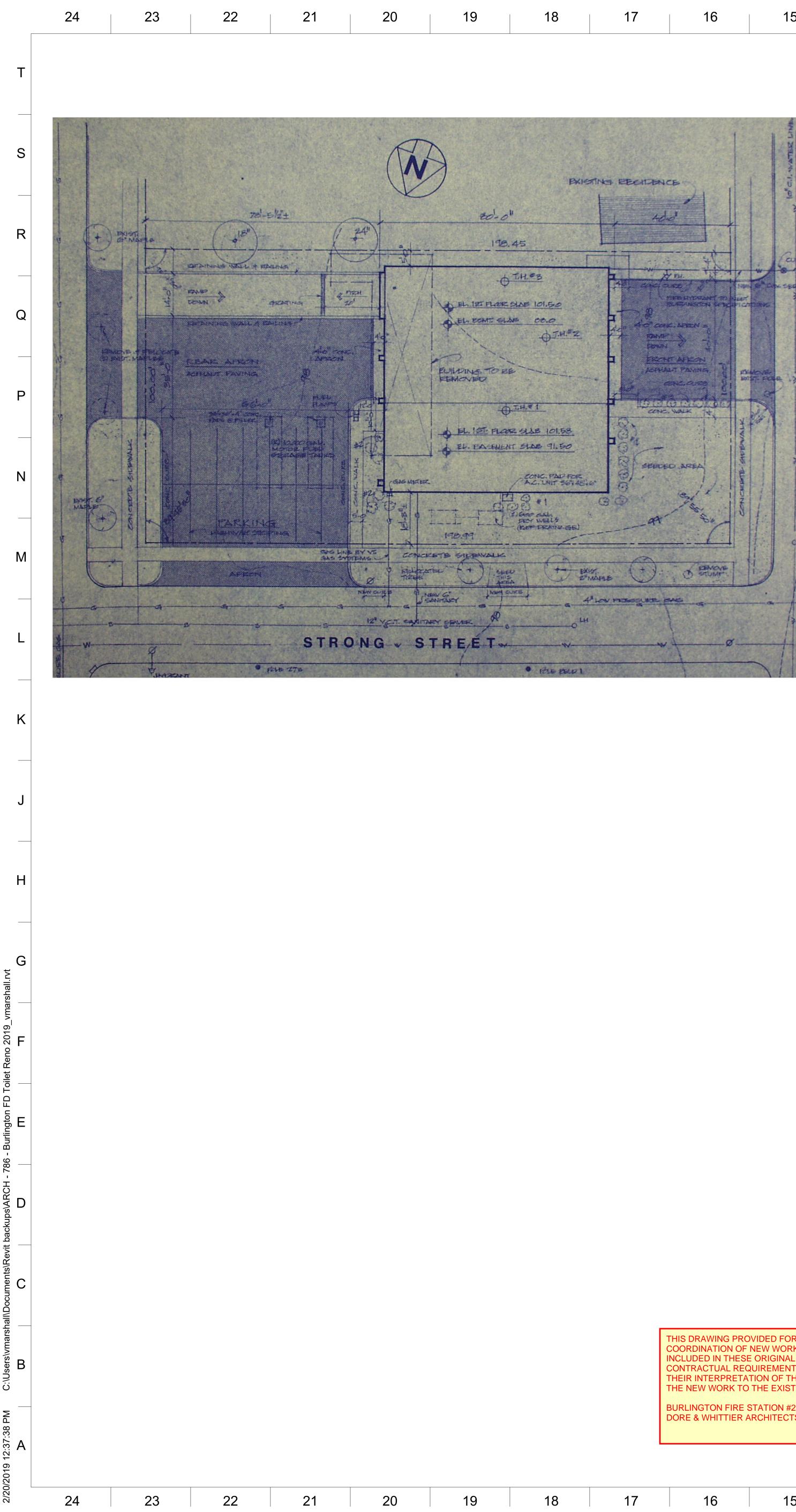




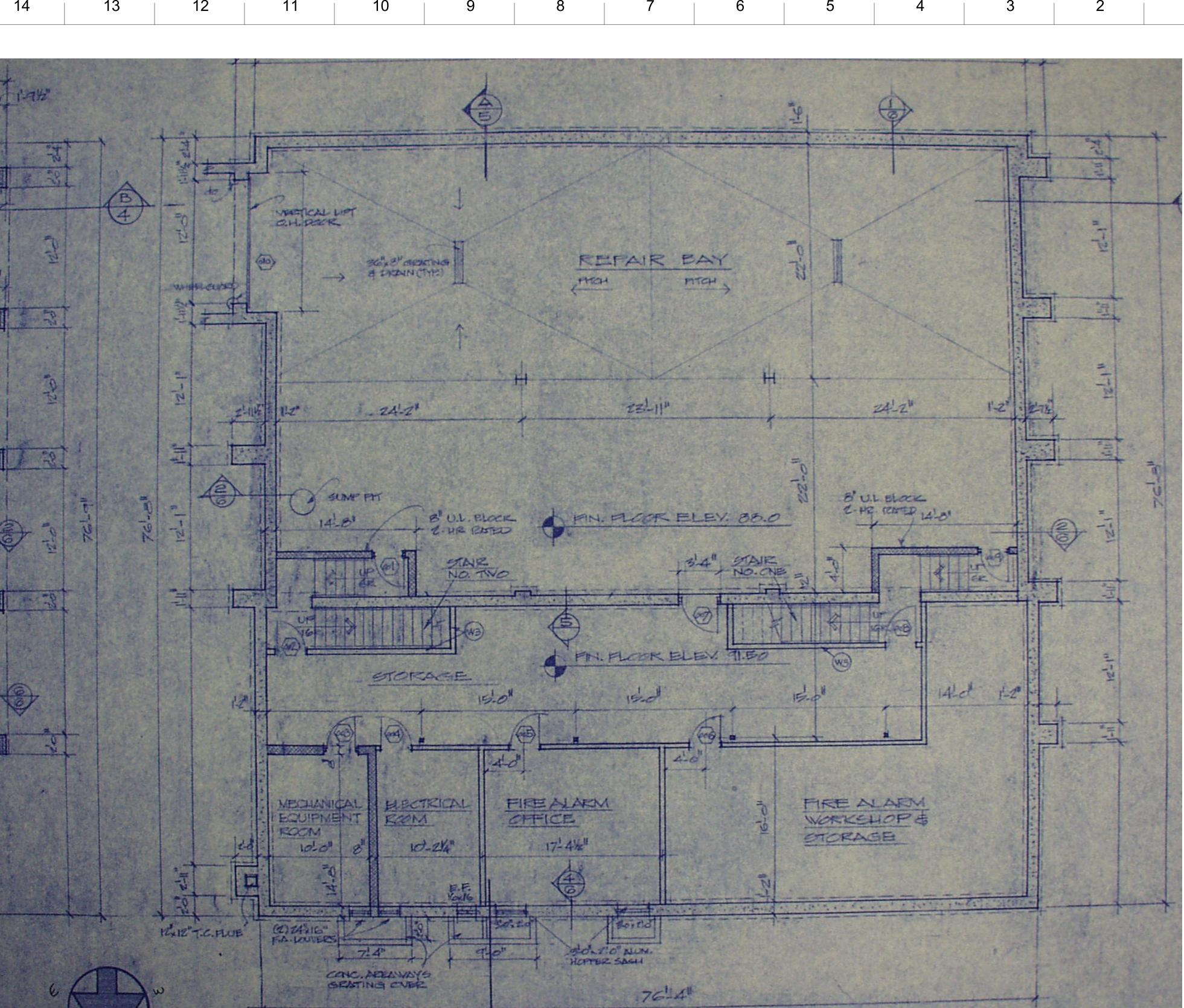
LIGHTING FIXTURE SCHEDULE								
TYPE	MANUFACTURER & MODEL NO.	DESCRIPTION	LAMPS	WATTS	LUMENS	VOLTS	REMARKS	
A	JUNO JSF-7IN-10LM-35K- 90CRI-MVOLTZT-WH	7" SLIM SURFACE	LED	13	1000	120 /277		
С	LITHONIA LDN6-35/10-L06-WR-M VOLT-GZ10-WL	6" RECESSED CAN	LED	13	1082	120/ 277		
V	LITHONIA BLWP2-20L-SDSM-GZ10 -LP835	SURFACE	LED	16	2000	120/ 277		
4_4	LITHONIA LIGHTING ELMLT W LP06VS LTP	SURFACE	LED	10.8	-	120/ 277	REMOTE HEAD CAPABILITY	

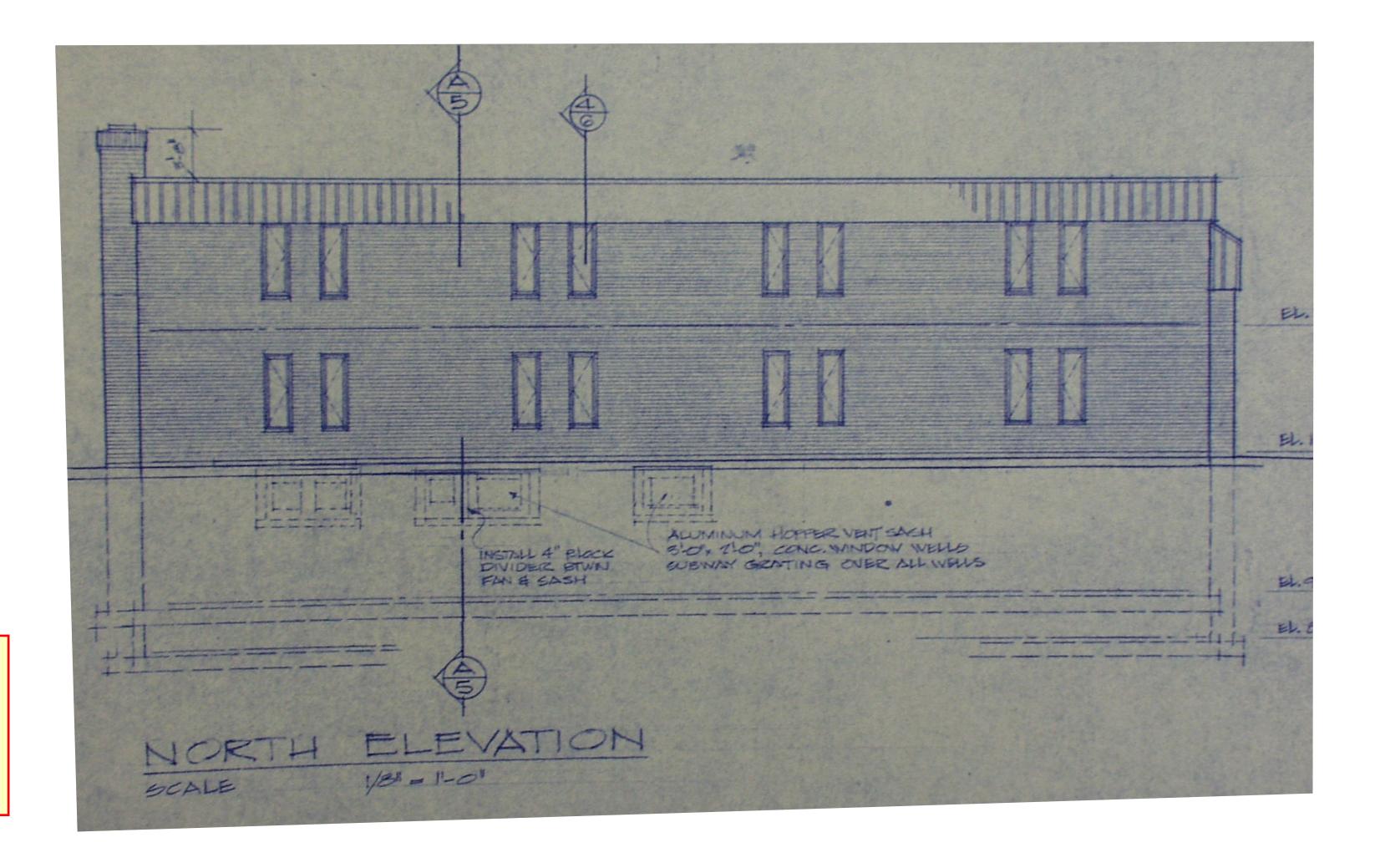
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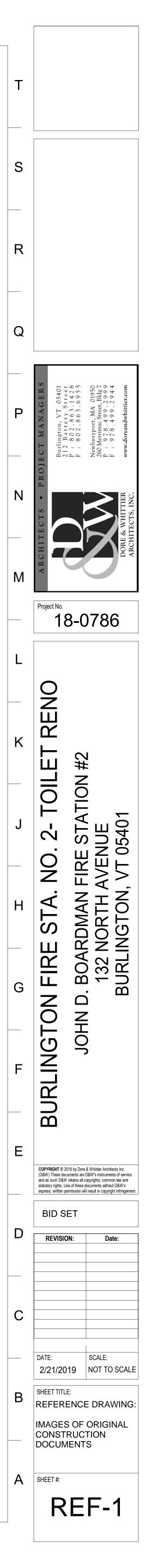


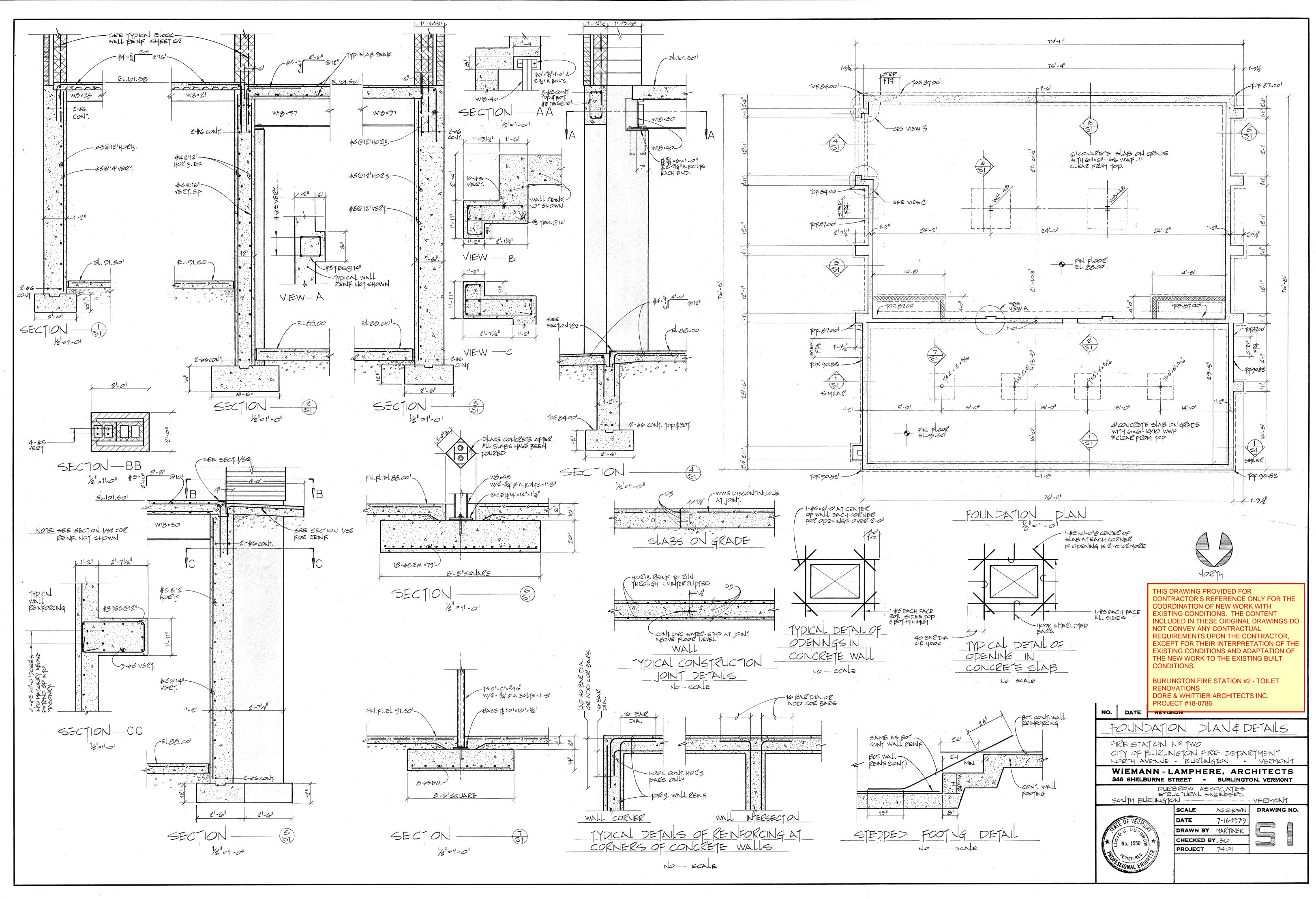


THIS DRAWING PROVIDED FOR CONTRACTOR'S REFERENCE ONLY FOR THE COORDINATION OF NEW WORK WITH EXISTING CONDITIONS. THE CONTENT INCLUDED IN THESE ORIGINAL DRAWINGS DO NOT CONVEY ANY CONTRACTUAL REQUIREMENTS UPON THE CONTRACTOR, EXCEPT FOR THEIR INTERPRETATION OF THE EXISTING CONDITIONS AND ADAPTATION OF THE NEW WORK TO THE EXISTING BUILT CONDITIONS.

BURLINGTON FIRE STATION #2 - TOILET RENOVATIONS DORE & WHITTIER ARCHITECTS INC. PROJECT #18-0786

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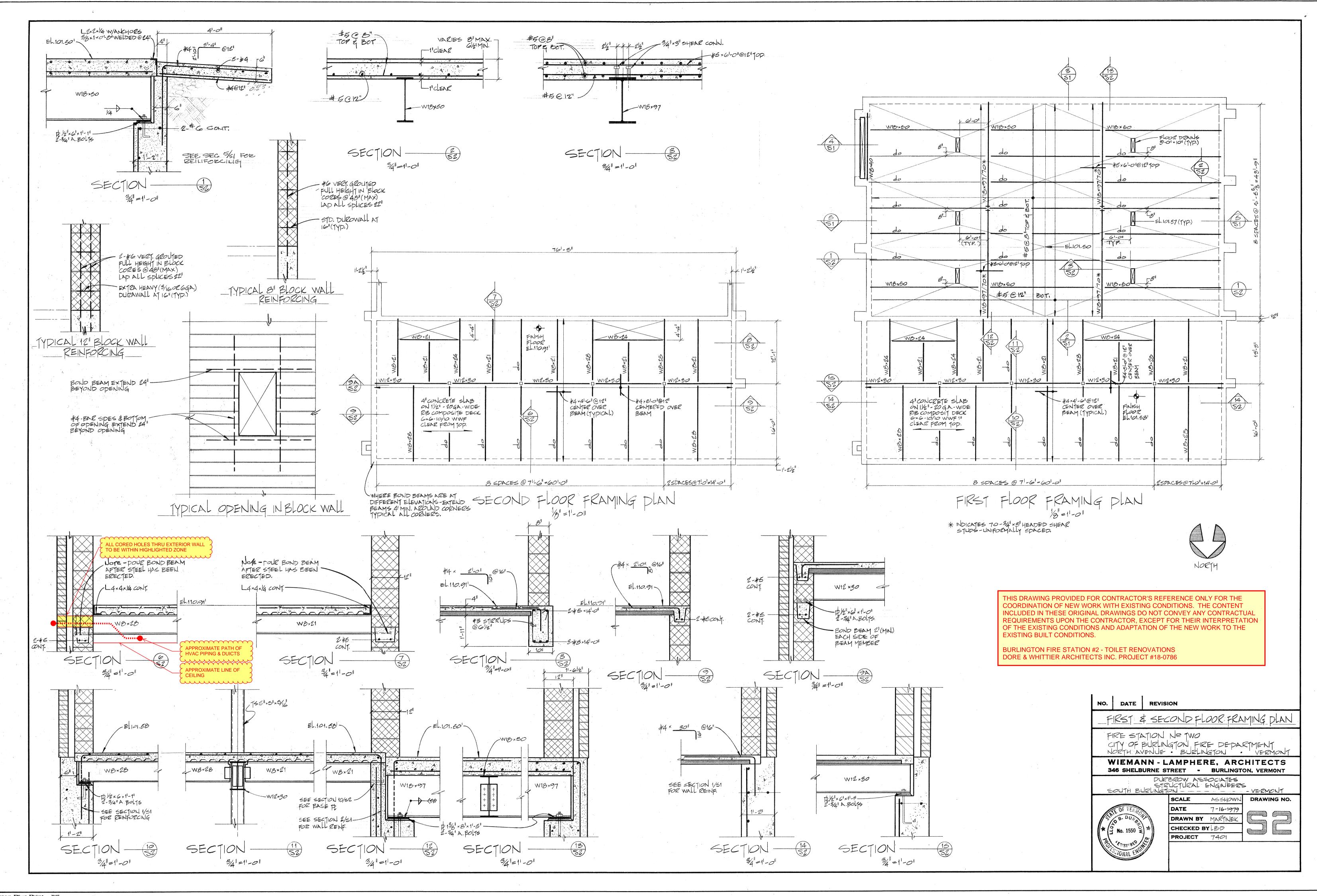


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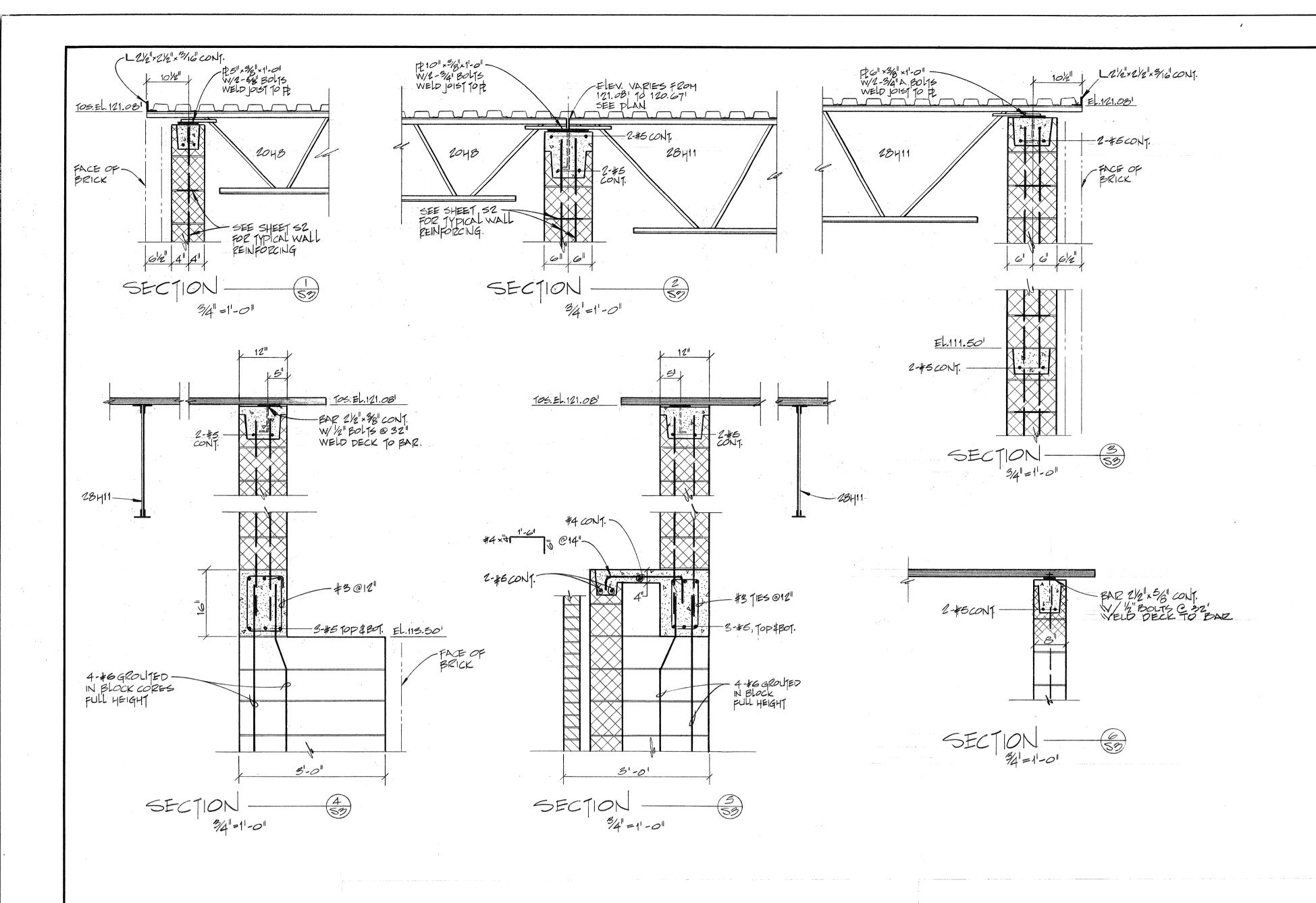
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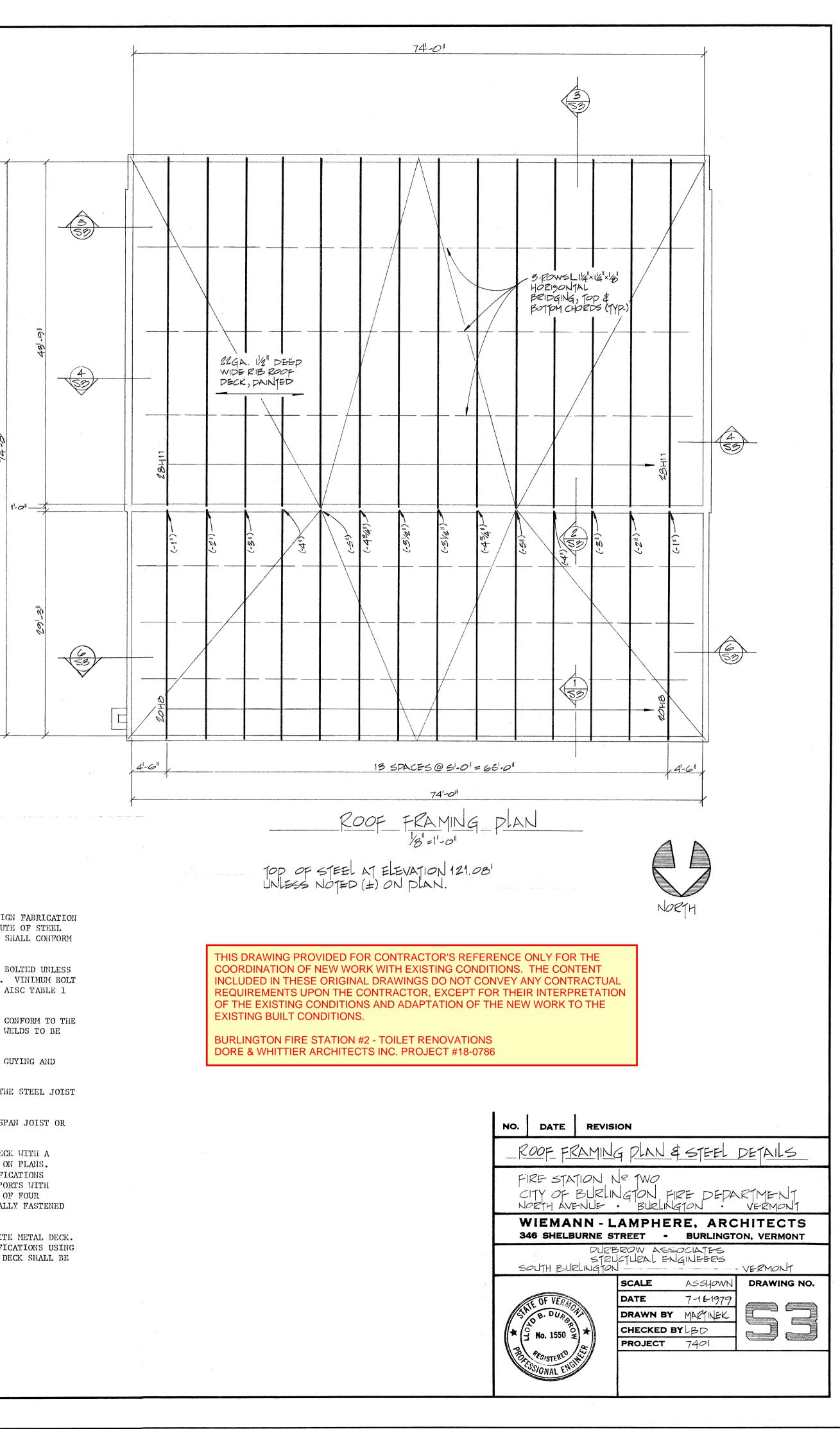
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#### MASONRY NOTES

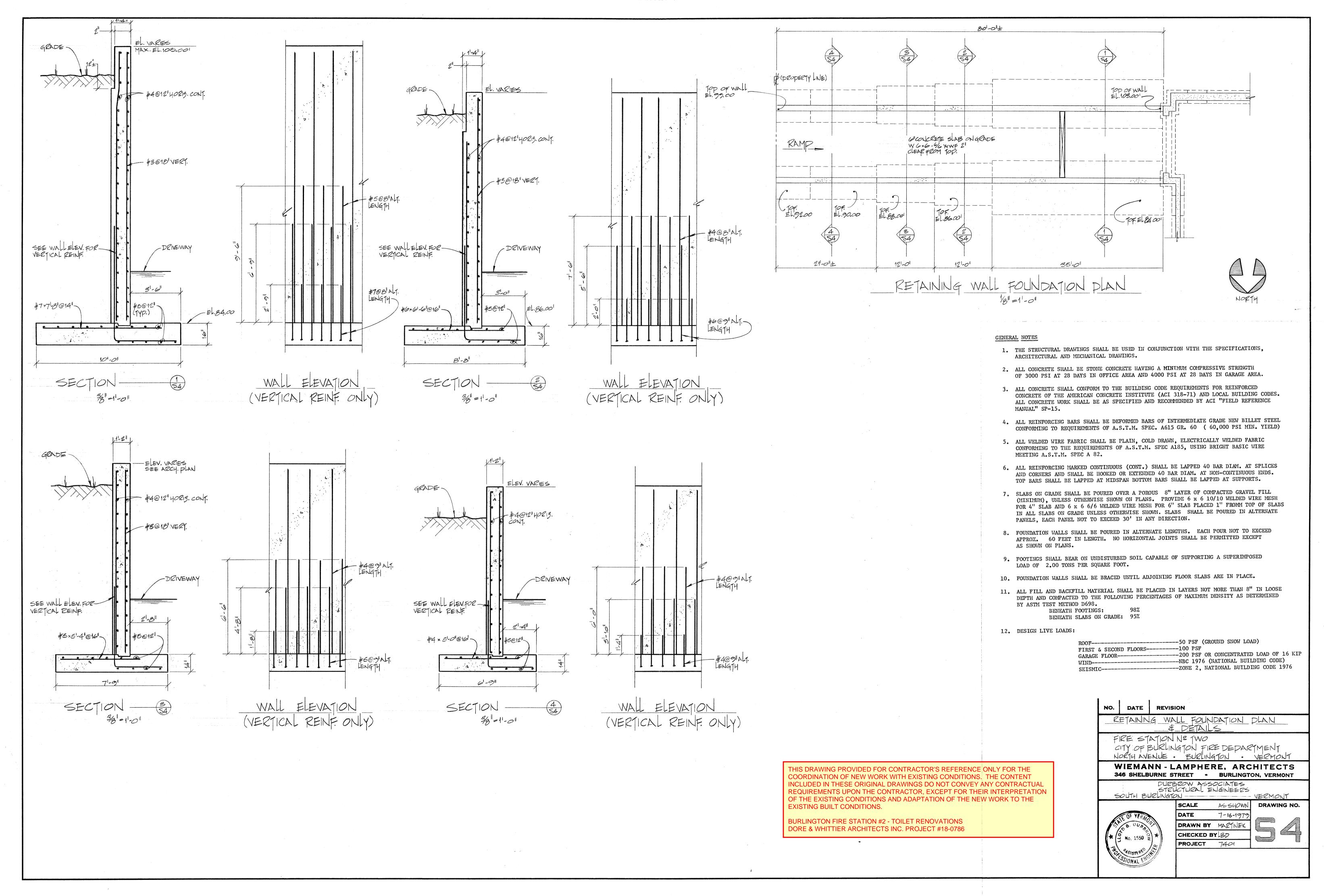
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- 1. ALL MASONRY WORK SHALL COMPLY TO THE "SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF LOAD-BEARING CONCRETE MASONRY" BY THE NATIONAL CONCRETE MASONRY ASSOCIATION AND TO THE REQUIREMENTS OF LOCAL BUILDING CODES.
- 2. CONCRETE MASONRY, HOLLOW AND SOLID LOAD-BEARING UNITS, SHALL CONFORM TO ASTM SPEC C90 AND C145 RESPECTIVELY. MASONRY UNITS SHALL BE TYPE I, GRADE N.
- 3. CONCRETE MASONRY LOAD-BEARING UNITS SHALL HAVE MINIMUM COMPRESSIVE STRENGTH (F<sup>\*</sup>m) OF 1500 PSI. AT 28 DAYS.
- 4. CONCRETE MASONRY UNITS MAY BE COMPOSED OF NORMAL WEIGHT OR LIGHTWEIGHT AGGREGATES.
- 5. MORTAR FOR NONREINFORCED MASONRY SHALL BE PROPORTIONED AND MIXED TO MEET THE REQUIREMENTS OF ASTM SPEC. C270. MORTAR SHALL BE TYPE S FOR BEARING WALLS AND TYPE N FOR NON-BEARING WALLS.
- 6. MORTAR AND GROUT FOR REINFORCED MASONRY SHALL BE PROPORTIONED AND MIXED TO MEET THE REQUIREMENTS OF ASTM SPEC. C476.
- 7. HORIZONTAL JOINT REINFORCEMENT SHALL BE FACTORY FABRICATED FROM COLD-DRAWN STEEL WIRE MEETING REQUIREMENTS OF ASTM SPEC. A82. REINFORCEMENT SHALL CONSIST OF TWO OR MORE DEFORMED LONGITUDINAL WIRES MINIMUM SIZE NO.6 GAGE FOR 12" WALLS AND NO.9 GAGE FOR 8" WALLS, WELD CONNECTED WITH MINIMUM NO.9 GAGE CROSS WIRES, FORMING A TRUSS DESIGN. MAXIMUM VERTICAL SPACING SHALL NOT EXCEED 16 INCHES UNLESS SHOWN OTHERWISE ON PLANS.
- 8. STEEL BAR REINFORCEMENT SHALL MEET THE REQUIREMENTS OF ASTM SPEC. A615, GRADE 40. MINIMUM LAP SPLICE TO BE 30 BAR DIAMETERS UNLESS OTHERWISE NOTED ON PLANS.



#### STRUCTURAL STEEL NOTES:

- 1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE SPECIFICATIONS FOR DESIGN FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION AND TO THE REQUIREMENTS OF LOCAL BUILDINGS CODES. STEEL SHALL CONFORM TO ASTM SPEC. A36.
- 2. SHOP CONNECTIONS MAY BE WELDED OR BOLTED. FIELD CONNECTIONS SHALL BE BOLTED UNLESS SPECIFICALLY SHOWN AS WELDED. BOLTS SHALL CONFORM TO ASTM SPEC. A325. VINIMUM BOLT DIAMETER TO BE 3/4". ALL CONNECTIONS SHALL BE AT LEAST EQUIVALENT TO AISC TABLE 1 SERIES CONNECTIONS, UNLESS SHOWN OTHERWISE.
- 3. ALL WELDING AND DETAILS SHALL BE AS RECOMMENDED BY THE AISC AND SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN WELDING SOCIETY. MINIMUM SIZE OF FILLET WELDS TO BE 3/16". MINIMUM RETURN SHALL BE 1/2".
- 4. THE STRUCTURAL STEEL CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY GUYING AND BRACING REQUIRED TO ERECT AND HOLD THE STEEL FRAME IN ALIGNMENT.
- 5. ALL STEEL JOIST WORK SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE.
- 6. FIELD BURNING OR CUTTING OF PRIMARY STRUCTURAL STEEL, BAR JOIST, LONGSPAN JOIST OR REINFORCING STEEL WILL NOT BE ALLOWED WITHOUT THE ARCHITECTS CONSENT.
- 7. ALL ROOF DECK MATERIALS SHALL BE 1 1/2" DEEP, 22 GA. WIDE RIB METAL DECK WITH A MINIMUM MOMENT OF INERTIA = 0.17 IN-4 PER FOOT UNLESS NOTED OTHERWISE ON PLANS. DECK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS AND ACCEPTED STANDARD PRACTICE, ROOF DECK SHALL BE WELDED TO ALL SUPPORTS WITH 5/8" DIAMETER FUSSION WELDS SPACED 6" TO 12" ON CENTER WITH A MINIMUM OF FOUR WELDS PER 30" SHEET WIDTH OR EQUIVALENT. SIDE LAPS SHALL BE MECHANICALLY FASTENED AT MIDSPAN. ALL EDGES OF DECK SHALL BE PROPERLY SUPPORTED.
- 8. ALL FLOOR DECK MATERIALS SHALL BE 1 1/2" DEEP, 20 GA. WIDE RIB COMPOSITE METAL DECK. FLOOR DECK SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACATURERS SPECIFICATIONS USING 5/8" DIAMETER FUSION WELDS SPACED 12" MAXIMUN ON CENTER. ALL EDGES OF DECK SHALL BE PROPERLY SUPPORTED AND SIDE LAPS SHALL BE FASTENED AT MIDSPAN.



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