

Appendix I

AS-BUILT Drawings

1454 39th Street, Brooklyn, NY
BCP #C224311



IMPACT ENVIRONMENTAL

170 Keyland Court
Bohemia, New York 11716
TEL: (631) 268-8800
FAX: (631) 269-1599

BUILDING CODE ANALYSIS: 2014 NYCBC

PROJECT DESCRIPTION				
This project is for a four (4) story building with subcellar and cellar levels. There will be a slab on grade and spread footing foundation system, steel post and beam structural system supporting the steel pan and concrete floor and a membrane roof system with green roof. The exterior skin of the building will be insulated metal panels with Masonry walls along the base and property line walls. The building will be constructed with a 10 x 10 column grid. There is a loading area on the first floor.				
•BUILDING: CITY OF NEW YORK 2014 BUILDING CODES •MECHANICAL: 2014 NEW YORK CITY MECHANICAL CODE •PLUMBING: 2014 NEW YORK CITY PLUMBING CODE •ELECTRICAL: NEW YORK CITY 2011 ELECTRICAL CODE •ENERGY CODE: 2016 NEW YORK CITY ENERGY CONSERVATION CODE •FUEL GAS: 2014 NEW YORK CITY FUEL GAS CODE •ACCESSIBILITY: 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN •LOCAL JURISDICTION AMENDMENTS: 2014 CONSTRUCTION CODE				
PROPOSED BUILDING AREA (BC TABLE 503)		ALLOWABLE	PROPOSED	NOTES
SUBCELLAR			22,051 SF	AREA EXCLUDED PER BC 503
CELLAR			22,051 SF	
1ST FLOOR - TOTAL				
1ST FLOOR - S-1			8,096 SF	
1ST FLOOR - S-2			5,708 SF	
1ST FLOOR - B			948 SF	RETAIL & SALES AREA
2ND FLOOR - S-1			16,080 SF	
3RD FLOOR - S-1			16,080 SF	
4TH FLOOR - S-1			16,080 SF	
STAIR			210 SF	
TOTAL AREA PER PLATE (BC 506.1 Aa = {At+ [At x If] + [At x Is]})		36,000 SF		
		3	-	
TOTAL BUILDING GROSS AREA PER BUILDING CODE =		108,000 SF	107,304 SF	PROJECT COMPLIES
GROSS BUILDING AREA (EXCLUDING SUBCELLAR) =			85,253 SF	
PROPOSED BUILDING HEIGHT (BC TABLE 503)		ALLOWABLE	PROPOSED	NOTES
BUILDING HEIGHT ABOVE GRADE PLANE		65 FT	60 FT	SEE CALCULATIONS BELOW
NUMBER OF STORIES ABOVE GRADE PLANE		5	4	SEE CALCULATIONS BELOW

CHAPTER	SECTION	CODE REQUIREMENT	PROPOSED BUILDING	COMPLIANCE
USE OF OCCUPANCY CLASSIFICATION	304.1 BUSINESS GROUP - B	THE USE OF A BUILDING OR STRUCTURE, OR PART THERE OF, FOR OFFICE, PROFESSIONAL OR SERVICE TYPE TRANSACTIONS, INCLUDING STORAGE OF RECORDS AND ACCOUNTS.	ACCESSORY OCCUPANCY GROUP B	COMPLIES
	311.2 STORAGE GROUP - S-1	THE USE OF A BUILDING OR STRUCTURE, OR A PART THEREOF, FOR STORAGE THAT IS NOT CLASSIFIED AS A HAZARDOUS OCCUPANCY.	MAIN OCCUPANCY GROUP S-1	COMPLIES

5. GENERAL BUILDING HEIGHTS & AREAS					
	503 GENERAL BUILDING HEIGHT AND AREA LIMITATIONS	TABLE 503 ALLOWABLE BUILDING HEIGHTS AND AREAS			
		GROUP: S-1	STORIES: 5 + CELLAR		
		TYPE: II A	AREA PER PLATE = 12,000 SF PER PLATE		
	SECTION		CODE REQUIREMENT	PROPOSED BUILDING	COMPLIANCE
	506.1 GENERAL	THE BUILDING AREAS LIMITED BY TABLE 503 SHALL BE PERMITTED TO BE INCREASED DUE TO FRONTAGE AND AUTOMATIC SPRINKLER PROTECTION IN ACCORDANCE WITH EQUATION 5-1	Aa = {At+ [At x If] + [At x Is]} Aa = { + [x] + [x 2]} Aa = SF PER PLATE Aa = 12,000 + (12,000 X 2) = 36,000 SF		COMPLIES
	506.2 FRONTAGE INCREASE	WHERE A BUILDING HAS MORE THEN 25 PERCENT OF ITS PERIMETER ON A PUBLIC WAY OR OPEN SPACE HAVING A WIDTH OF NOT LESS THAN 20FT, THE FRONTAGE INCREASE SHALL BE DETERMINED IN ACCORDANCE WITH EQUATION 5-2	No frontage increase taken If =		COMPLIES
	506.3 AUTOMATIC SPRINKLER SYSTEM INCREASE	WHERE A BUILDING IS EQUIPPED THROUGHOUT WITH AN APPROVED AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH 903.3.1.1, THE BUILDING LIMITATION IN TABLE 503 IS PERMITTED TO BE INCREASED BY AN ADDITIONAL 200 PERCENT (Is=2) FOR BUILDINGS WITH MORE THAN ONE STORY ABOVE GRADE PLANE	Is = 2		COMPLIES
	506.5.2 MIXED OCCUPANCY AREA DETERMINATION SF	FOR BUILDINGS WITH MORE THAN ONE STORY ABOVE GRADE PLANE AND CONTAINING MIXED OCCUPANCIES EACH STORY SHALL INDIVIDUALLY COMPLY WITH THE APPLICABLE REQUIREMENTS OF SECTION 508.1. FOR BUILDINGS WITH MORE THAN THREE STORIES ABOVE GRADE PLAN, THE TOTAL BUILDING AREA SHALL BE SUCH THAT THE AGGREGATE SUM OF THE RATIOS OF THE ACTUAL AREA OF EACH STORY DIVIDED BY THE ALLOWABLE AREA OF SUCH STORIES BASED ON APPLICABLE PROVISIONS OF SECTION 508.1 SHALL NOT EXCEED 3.	36,000x 3 = 108,000 SF		COMPLIES, SEE ABOVE
	508.2 ACCESSORY OCCUPANCIES	ACCESSORY OCCUPANCIES ARE THOSE OCCUPANCIES THAT ARE ANCILLARY TO THE MAIN OCCUPANCY OF THE BUILDING OR PORTION THEREOF	MAIN USE: S-1 ACCESSORY USE: B		COMPLIES
	508.2.4 SEPARATION OF OCCUPANCIES	NO SEPARATION IS REQUIRED BETWEEN ACCESSORY OCCUPANCIES AND THE MAIN OCCUPANCY	S-1 to B = 0 HR		COMPLIES

CHAPTER	SECTION	CODE REQUIREMENT	PROPOSED BUILDING	COMPLIANCE	
6. TYPES OF CONSTRUCTION	602.1 GENERAL	BUILDINGS AND STRUCTURES TO BE ERRECTED SHALL BE CLASSIFIED IN ONE OF FIVE CONSTRUCTION TYPES DEFINED IN SECTION 602.2 AND 602.5. THE BUILDING ELEMENTS SHALL HAVE A FIRE RESISTANCE RATING NOT LESS THAN THAT SPECIFIED IN TABLE 601 AND EXTERIOR WALLS SHALL HAVE A FIRE RESISTANCE RATING NOT LESS THAN THAT SPECIFIED IN TABLE 602.	CONSTRUCTION TYPE II A	COMPLIES, SEE THIS SHEET	
	TABLE 601 - FIRE-RESISTANT RATING REQUIREMENTS FOR BUILDING ELEMENTS				
	BUILDING ELEMENTS	TYPE II A - REQUIRED	PROPOSED	COMPLIES, SEE A-70 & A300'S	
	PRIMARY STRUCTURAL FRAME	1 HR	1 HR		
	BEARING WALLS				
	EXTERIOR	1 HR	1 HR		
	INTERIOR	1 HR	1 HR		
	NON BEARING WALLS & PART. INTERIOR	0 HR	0 HR		
	FLOOR CONSTRUCTION & SECONDARY MEMBERS	1 HR	1 HR		
	ROOF CONSTRUCTION & SECONDARY MEMBERS	1 HR	1 HR		
TABLE 602 - FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE FIRE SEPARATION DISTANCE					
FIRE SEPARATION	TYPE / OCCUPANCY	PROPOSED	COMPLIES, SEE A-070 & A300		
(X) (FEET)	I B/ S-1				
X<5	2 HR	2 HR			
5<X<10	1 HR	N/A			
10<X<30	1 HR	1 HR			
X>30	0 HR	0 HR			
CHAPTER	SECTION	CODE REQUIREMENT	PROPOSED BUILDING	COMPLIANCE	
7. FIRE AND SMOKE PROTECTION FEATURE	704 FIRE RESISTANCE RATING OF STRUCTURAL MEMBERS	704.2 COLUMN PROTECTION 704.3 PROTECTION OF THE PRIMARY STRUCTURAL FRAME OTHER THAN COLUMNS 704.4 PROTECTION OF SECONDARY MEMBERS 704.9 IMPACT PROTECTION	UL # X790 WHERE NOTED UL # U905 WHERE NOTED N/A PROVIDED	COMPLIES, SEE A-060's COMPLIES, SEE A-060's	
	TABLE 705.8 - MAX AREA OF EXT. WALL OPENING BASED ON FIRE SEPARATION DISTANCE AND DEGREE OF OPENING PROTECTION				
	FIRE SEPARATION DISTANCE	DEGREE OF OPENING PROTECTION	ALLOWABLE AREA	PROPOSED	N/A
	(X) (FEET)	(S, NS, P, UP) UP, S	(%) NOT REQ.	Not Proposed	
	705.11 PARAPETS	PARAPETS SHALL BE PROVIDED ON EXTERIOR WALLS OF BUILDINGS.	PROPOSED PARAPET HEIGHT-42"	COMPLIES, SEE A-500'S	
	TABLE 706.4 FIRE WALL RESISTANCE RATINGS				
	GROUP	REQUIRED RATING	PROPOSED RATING	N/A	
	S-1	3	N/A, NO FIRE WALLS WITHIN BUILDING		
	B	3			
TABLE 707.3.10 FIRE RESISTANCE RATING REQUIREMENTS FOR FIRE BARRIER ASSEMBLIES					
GROUP	REQUIRED RATING	PROPOSED RATING	N/A		
S-1	3	N/A, BUILDING IS NOT DIVIDED INTO MULTIPLE FIRE AREAS			
B	2				
713.4 FIRE RESISTANCE RATING	SHAFT ENCLOSURES SHALL HAVE A FIRE RESISTANCE RATING OF NOT LESS THAN 2 HOURS WHERE CONNECTING FOUR STORIES OR MORE, AND NOT LESS THAN 1 HOUR WHERE CONNECTING LESS THAN 4 STORIES	PROPOSED SHAFTS 2HR	COMPLIES, SEE A-410'S		
TABLE 716.5 OPENING FIRE PROTECTION ASSEMBLIES					
TYPE OF ASSEMBLY	REQUIRED WALL ASSEMBLY	MINIMUM FIRE DOOR	PROPOSED DOOR RATING	COMPLIES, SEE A-410'S	
SHAFT WALLS	2 HR	1.5 HR	1.5 HR		
CHAPTER	SECTION	CODE REQUIREMENT	PROPOSED BUILDING	COMPLIANCE	
8. INTERIOR FINISHES	TABLE 803.9 INTERIOR WALL AND CEILING FINISH REQUIREMENTS (SPRINKLERED)				
	GROUP	INTERIOR EXIT STAIRS AND EXIT PASSAGEWAYS	CORRIDORS, ROOMS & ENCLOSED SPACES	PROPOSED CLASS	COMPLIES, SEE A-XXX
	S	B	C	B	
B	B	B	B		
CHAPTER	SECTION	CODE REQUIREMENT	PROPOSED BUILDING	COMPLIANCE	
9. FIRE PROTECTION SYSTEMS	903. 2.9 GROUP S-1	AN AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED THROUGHOUT ALL BUILDINGS CONTAINING A GROUP S-1 OCCUPANCY WHERE ONE OF THE FOLLOWING CONDITIONS EXISTS: - FIRE AREA EXCEEDS 12,000 SF - FIRE AREA IS MORE THAN 3 STORIES ABOVE GRADE PLANE - COMBINED FIRE AREA OF ALL FLOORS EXCEEDS 24,000SF - OCCUPANCY USED FOR STORAGE OF UPHOLSTERED FURNITURE OR MATTRESSES EXCEEDS 2,500SF	SPRINKLER / STANDPIPE SYSTEM & FIRE ALARM SYSTEM PROVIDED AS PER NYC 2014 BC & NFPA REQUIREMENTS UNDER A SEPARATE APPLICATION	COMPLIES, SEE SPRINKLER SUBMISSION (BY OTHERS)	

CHAPTER	SECTION	CODE REQUIREMENT	PROPOSED BUILDING	COMPLIANCE
TABLE 1004.1.1 - MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT				
	FUNCTION OF SPACE	OCCUPANT LOAD (SQFT)	PROPOSED OCCUPANT LOAD	COMPLIES, SEE A-030
	WAREHOUSE	500 GROSS	WAREHOUSE: 202 OCCUPANTS	
	PARKING	100 GROSS	PARKING: 57 OCCUPANTS	
	BUSINESS AREA	100 GROSS	BUSINESS: 9 OCCUPANTS	
TOTAL OCCUPANT LOAD = 268				
1005.1 MINIMUM EGRESS WIDTH	STAIRWAYS - 0.3 OTHER COMPONENTS - 0.2	STAIRS = 44" PROVIDED DOORS = 36" PROVIDED AISLES = 36" PROVIDED		COMPLIES, SEE A-030
1007.3 EXIT STAIRWAYS	TO BE CONSIDERED PART OF AN ACCESSIBLE MEANS OF EGRESS, AN EXIT ACCESS STAIRWAY SHALL HAVE A CLEAR WIDTH OF 48" MIN. BETWEEN HANDRAILS EXCEPTION 2: THE CLEAR WIDTH OF 48 INCHES BETWEEN HANDRAILS IS NOT REQUIRED IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM	44" STAIR WIDTH PROVIDED		COMPLIES, SEE A-410 & A-411
1008.1.1.2 PROJECTIONS INTO CLEAR WIDTH	THERE SHALL NOT BE PROJECTIONS INTO THE REQUIRED CLEAR WIDTH LOWER THAN 34 INCHES AND 80" ABOVE THE FLOOR OR GROUND SHALL NOT EXCEED 4"	DOORS PROVIDED MEET OUTLINED CODE REQUIREMENTS		COMPLIES, SEE A-410 & 411
1008.1.6 LANDINGS AT DOORS	LANDINGS SHALL HAVE A WIDTH NOT LESS THAN THE WIDTH OF THE STAIR WAY OR THE DOOR, WHICHEVER IS GREATER. DOORS IN THE FULLY OPEN POSITION SHALL NOT REDUCE A REQUIRED DIMENSION BY MORE THAN 7 INCHES. WHEN A LANDING SERVES AN OCCUPANT LOAD OF 50 OR MORE, DOORS IN ANY POSITION SHALL NOT REDUCE THE LANDING TO LESS THAN ONE HALF ITS REQUIRED WIDTH LANDINGS SHALL HAVE A LENGTH MEASURE IN THE DIRECTION OF TRAVEL NOT LESS THAN 44 INCHES	DOORS PROVIDED MEET OUTLINED CODE REQUIREMENTS		COMPLIES, SEE A-410 & A411
1008.1.9.10 STAIRWAY DOORS	INTERIOR STAIRWAY MEANS OF EGRESS DOORS SHALL BE OPENABLE FROM BOTH SIDES WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.	DOORS PROVIDED MEET OUTLINED CODE REQUIREMENTS		COMPLIES, SEE A-080
1009.2 HEADROOM	STAIRWAYS SHALL HAVE A MINIMUM HEADROOM CLEARANCE OF 84 INCHES MEASURED VERTICALLY FROM A LINE CONNECTING THE EDGE OF THE NOSINGS	STAIRS PROVIDED MEET OUTLINED CODE REQUIREMENTS		COMPLIES, SEE A-410'S
1009.5 STAIRWAY LANDINGS	THERE SHALL BE A FLOOR OR LANDING AT THE TOP AND BOTTOM OF EACH STAIRWAY. THE WIDTH OF LANDINGS SHALL NOT BE LESS THAN THE WIDTH OF THE STAIRWAY THEY SERVE. EVERY LANDING SHALL HAVE A MINIMUM WIDTH MEASURED PERPENDICULAR TO THE DIRECTION OF TRAVEL EQUAL TO THE WIDTH OF THE STAIRWAY. WHERE THE STAIRWAY HAS A STRAIGHT RUN THE DEPTH NEED NOT EXCEED 48 INCHES.	STAIRS PROVIDED MEET OUTLINED CODE REQUIREMENTS		COMPLIES, SEE A-410 / 411/412
1009.7 VERTICAL RISE	A FLIGHT OF STAIRS SHALL NOT HAVE A VERTICAL RISE GREATER THAN 12FT BETWEEN FLOOR LEVEL OR LANDINGS	STAIRS PROVIDED MEET OUTLINED CODE REQUIREMENTS		COMPLIES, SEE A-410 & A-411/412
1009.13 STAIRWAY TO ROOF	IN BUILDINGS FOUR OR MORE STORIES ABOVE GRADE PLANE, ON STAIR SHALL EXTEND TO THE ROOF SURFACE	STAIRS PROVIDED MEET OUTLINED CODE REQUIREMENTS		COMPLIES, SEE A-412
1012.2 HEIGHT	HANDRAIL HEIGHT, MEASURED ABOVE THE STAIR TREAD NOSINGS, SHALL BE NOT LESS THAN 34 INCHES AND NOT MORE THAN 38 INCHES	HANDRAILS PROVIDED MEET OUTLINED CODE REQUIREMENTS		COMPLIES, SEE A-410 & A-411/412
1012.3.1 TYPE I	HANDRAILS WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF AT LEAST 1 1/4 INCHES AND NOT GREATER THAN 2 INCHES	HANDRAILS PROVIDED MEET OUTLINED CODE REQUIREMENTS		COMPLIES, SEE A-410 & A-411/412
1012.6 HANDRAIL EXTENSIONS	WHERE HANDRAILS ARE NOT CONTINUOUS BETWEEN FLIGHTS, THE HANDRAILS SHALL EXTEND HORIZONTALLY AT LEAST 12 INCHES BEYOND THE TOP RISER AND CONTINUE TO SLOPE FOR THE DEPTH OF ONE READ BEYOND THE BOTTOM RISER	HANDRAILS PROVIDED MEET OUTLINED CODE REQUIREMENTS		COMPLIES, SEE A-410 / 411

ISSUE DATE

1 Permit Set 3/23/20
2 PAA 11/22/21

REVISION DATE

4 RFI 016 11/3/21

1454 39th Street Self Storage

Safe N Lock
1454 39TH ST
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK

B³⁰W

BUTZ • WILBERN LTD

Planning | Architecture
Interiors | Property Visioning

800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010



CODE SHEET

A-002.01

Shanm Shrinipour

2 OF 49

19010

Shanm Shrinipour

Under Direction of sign

APPROVED
AMENDED APPLICATION
Date: 04/07/2022
NYC Development Hub

COORDINATION

Substitutions: Where the General Contractor requests approval of an item of equipment or other material which deviates from the requirements of the specifications or the drawings and may require a redesign or alteration of structure, partitions, foundations, piping, wiring or any other part of the mechanical, electrical, or plumbing system, all such redesign, reframing, resubmissions, fees and **all** other related construction cost increases or delays shall be paid for by the Contractor.

1.Under no circumstances shall the Contractor be considered that compromise the ability to obtain LEED certification as planned and outlined in the LEED strategies outlined in the Contract Documents.

2.Where specific items of a particular manufacturer are specified herein by make or model number it is not the intent of these specifications to prohibit the use of technically equivalent items of another manufacturer provided all requirements herein are met including those requirements which are implied by the use of the particular items described. Should the contractor wish to propose alternate items for their substitution, approval of the Owner & Architect must be obtained prior to bidding, procurement and installation. **All** related cost increases or delays, as defined above shall be paid for by the Contractor.

3.If General Contractor elects to substitute equipment manufacturer or other materials as specified, they shall submit performance data to Architect for review / approval prior to submitting bid. Regardless of Architect approval, the General Contractor is to meet, at a minimum, the performance criteria contained by specified items in the Contract Documents.

4.General Contractor shall submit a completed Substitution Form attached to this specification for all proposed substitutions for Owner's and Architect's review and consideration. Determinations of what is an "equal" and suitability of any proposed substitution shall be at the sole discretion of the Architect and Owner.

Pre-DEMOLITION CONFERENCE: Prior to demolition work commencing, the General Contractor shall coordinate a meeting at the project site, or other mutually agreed location with abatement subcontractor, Demolition Subcontractor, Electrical, Plumbing, and Mechanical Subcontractors, Roofing Subcontractor and other entities concerned with safety procedures and systems coordination including (where applicable) Owner's insurer, test agencies, environmental consultants, governing authorities, Architect, and Owner. Record discussions and agreements and furnish copy to each participant immediately following the meeting. Provide at least 72 hours advance notice to participants prior to convening any conferences.

Pre-Roofing Conference: Prior to installation of roofing and associated work, the General Contractor shall coordinate a meeting at the project site, or other mutually agreed location with, Installer, roofing manufacturer rep, installers of related work, and other entities concerned with roofing performance, including (where applicable) Owner's insurer, test agencies, governing authorities, Architect, and Owner. GC to record discussions and agreements and furnish copy to each participant. Provide at least 72 hours advance notice to participants prior to convening pre-roofing conference. Once the roof is in place and all roofing is completed, the contractor shall arrange with the roofing manufacturer a final inspection for the sole purpose for issuance of the roofing warranty certificate.

Pre-Sprinkler, Electrical & Mechanical Conference: Prior to installation of sprinklers, mechanical and associated work, the General Contractor shall coordinate a meeting at the project site, or other mutually agreed location, with sprinkler installer, electrical contractor, mechanical contractor, installers of related work, and other entities concerned with coordinating key building support systems, including (where applicable) governing authorities, Architect, and Owner. GC to record discussions and agreements and furnish copy to each participant. Provide at least 72 hours advance notice to participants prior to convening pre-Sprinkler, Electrical & Mechanical conference.

The intent is to coordinate all work and ensure compliance with the Construction Documents and to resolve all potential conflicts including but not limited to head height clearances

Pre-Fire Alarm/Detection, Security, Telephone, & Elevator Conference: Prior to installation of the fire alarm/detection system, the security system, telephone system, and the elevators, the General Contractor shall coordinate a meeting at the project site, or other mutually agreed location with the fire alarm contractor, the security contractor, the telephone system installation contractor, the elevator contractor and the electrical contractor shall participate in a joint conference to coordinate the interface of all systems.

Pre-Millwork Conference: Prior to fabrication of millwork, General Contractor shall conduct a coordination conference with the participation of the millwork fabricator, the electrical contractor, the telephone system installer and office equipment supplier and any other trade or entity whose work must be coordinated with the millwork.

Project Meetings

1. Representatives attending meetings shall be qualified and authorized to act on behalf of the entity they represent. The Architect and/or Owner (and/or Owner's designee) may attend any meeting to ascertain that the Work is consistent with the Contract Documents.
2. Schedule meetings and conferences throughout the duration of the Work with each meeting scheduled, administered, and presided over as specified and including the following requirements:
- a) Prepare agenda for each conference and meeting. Coordinate with the Owner and Architect prior to distribution of the agenda for inclusion of any additional agenda items they may have.
 - b) Distribute a written notice including the agenda to participants not less than seven days prior to the scheduled date.
 - c) Make physical arrangements for the meetings.
 - d) Record minutes, attendees, and include significant proceedings and decisions.
 - e) Reproduce and distribute copies of the minutes to all participants within five days after all meetings including Owner and Architect whether or not they are present.
 - f) Maintain 1 copy of agenda and minutes for each conference and meeting in the field office.

Preconstruction Conference

1. At not less than a minimum of 7 days prior to beginning construction, schedule the preconstruction conference. If possible, convene at the site of the Work, or coordinate as required for a location acceptable to the Owner.
2. Attendees (& Others as appropriate)
3. Minimum Agenda:
 - a) Administrative and Procedural Issues
 - b. Site Mobilization and Utilization

Progress Meetings

1. Meet periodically to review the project schedule for the purpose of coordinating and expediting the work. If possible, convene at the site of the Work, or coordinate as required for a location acceptable to the Owner.
2. Attendees
- a) Owner and consultants to the Owner
 - b) Contractor (presides over the meeting and maintains responsibility for minutes).
 - c) Contractor's subcontractors appropriate to the progress meeting, and other subcontractors or suppliers whose presence is requested by the Owner.
 - d) Architect and consultants to the Architect.
 - e) Others as appropriate
3. Minimum Agenda
- a) Previous Meeting
 - b) Updates, Changes, Modifications, and Request
 - c) Deficiencies, Conflicts, Decisions, and Coordination
 - d) Progression
 - e) LEED Status
 - f) Other Business Related Actions
4. Meeting Minutes:
- a) Meeting minutes shall be completed by the General Contractor and issued to all attendees and the Owner & Architect regardless of their attendance, not less than 5 days after the meeting.
 - b) The format shall include a column to indicate who is responsible for any required action and required completion date.
- Each of these items requiring action shall be carried in subsequent minutes of meeting as old business until noted as resolved or completed.
- c) At minimum, separate the minutes into following categories

RFI's, SUBMITTALS, AND INSPECTION PROCEDURES

A. G.C., within 10 business days of Notice to Proceed, shall provide Owner and Architect a submittal log with a schedule. The log is to be updated and submitted to the Architect on the 15th of each month for the duration of the project. See the attached sample log.

B. G.C. to submit 4 copies of each required submittal with the G.C.'s stamped certification of conformance. The Architect shall retain one, and shall return the remaining three with action taken and corrections or modifications required. **The items asterisked must have one separate copy simultaneously sent directly to the Owner.**

D. Submit Shop Drawings, drawn to accurate scale and coordinated with other work per contract. Do not use Shop Drawings without a final stamp indicating action taken in connection with construction (These may include Approved, Approved as noted, Revised & Resubmitted and Rejected). Include the following: Dimensions, Identification of products and materials included. Review periods shall be per the Contract.

E. Submit 2 full-size samples cured and finished as specified and identical to the product proposed. Include the following: Generic description, Source, Finish and delivery time. Product name or number.

F. The Architect or Engineers shall review and approve or take other appropriate action on the Contractor's submittals, such as shop drawings, product data, samples and other data which the Contractor is required to submit, but only for the limited purpose of checking for conformance with the design concept and the information shown on the Construction Documents. This review shall not include review of the accuracy or completeness of details such as quantities, dimensions, weights or gauges, fabrication processes, construction means or methods, coordination of the work with other trades or construction sequencing, safety or the sole responsibility of the Contractor.

G. The following Contractor's submittals, such as shop drawings, product data, samples, and other data which the Contractor is required to submit, must follow guidelines given above:

SPECIFICATIONS BASIS OF DESIGN

(PER CSI 16 DIVISIONS)

DIVISION NO.	DIVISION DESCRIPTION	SHEET LOCATION	REMARKS
00001	TABLE OF CONTENTS	• A-001	
00010	ADDRESSES & PHONE NUMBERS	• A-001	
00011	PROJECT DESCRIPTION	• A-002	
		•	
01310	COORDINATION	• A-003	
01330	RFIs, SUBMITTALS, AND INSPECTION, REQUIREMENTS	• A-003	
01770	PROJECT CLOSEOUT, PROTECTION, AND CLEANING	• A-003	
02230	SITE CLEARING	• SEE CIVIL DWGS	
02300	EARTHWORK & TRENCHING	• SEE CIVIL DWGS	REQ. SOE SHOP DWGS
02530	STORM SEWERAGE	• SEE CIVIL DWGS	SEE PLUMB DWGS
02620	SUB DRAINAGE SYSTEMS	• SEE CIVIL DWGS	
02741	ASPHALTIC CONCRETE PAVING	• SEE CIVIL DWGS	
02751	CEMENT CONCRETE PAVING	• SEE CIVIL DWGS	
02821	FENCES	• A-010 AND CIVIL DWG'S	
02920	LAWNS AND GRASSES, TREES, PLANTS, AND GROUND COVERS	• SEE CIVIL DWGS	
03300	CAST-IN-PLACE CONCRETE	• A-070, A-100s, A-400s	SEE STRUC. DWGS REQUIRES SUBMITTALS / SHOPS (MIXES, CURING COMPOUNDS, REIN.)
04100	MORTAR, MASONRY GROUT, EXPANSION & CONTROL JOINTS	• A-200s	SEE STRUC. DWGS
04810	UNIT MASONRY ASSEMBLIES	• A-070	REQUIRES SUBMITTALS
05120	STRUCTURAL STEEL	• A-100s, A-300s, A-500s	
05310	METAL DECKING	• A-100s, A-300s, A-500s	SEE STRUC. DWGS
05400	LIGHT GAUGE METAL FRAMING	• A-100s, A-300s, A-500s	REQUIRES SUBMITTALS / SHOPS
05710	METAL STAIRS	• A-410s	
05720	HANDRAILS & RAILINGS	• A-410s	
06100	ROUGH & FINISH CARPENTRY	• A-400s, A-500s	REQUIRE MILLWORK
06400	ARCHITECTURAL PANELING / SLATWALL	• A-400s	SHOP DWGS
06401	ARCHITECTURAL WOODWORK	• A-400s	
07131	SHEET WATERPROOFING	• A-070, A-100s, A-300s	REQ. SUBMITTAL
07133	VAPOR RETARDERS	• A-070, A-100s, A-300s	REQ. SUBMITTAL
07160	CEMENT BASED WATERPROOFING	• A-100s and A-300s	REQ. SUBMITTAL
07180	TRAFFIC COATINGS	• A-100s and A-300s	REQ. SUBMITTAL
07210	BUILDING INSULATION	• A-070	REQ. SUBMITTAL
07215	COMBINATION INSULATION / DRAINAGE	• A-100s, A-300s	REQ. SUBMITTAL
07240	METAL INSULATED PANEL SYSTEM	• A-070 & A-200s	REQ. SUBMITTAL
07241	EXTERIOR INSULATION & FINISH SYSTEMS (EIFS & DEFS)	• A-070 & A-200s	REQ. SUBMITTAL
07511	BUILD-UP ASPHALT ROOFING SYSTEM	• A-500s	
07530	FLEXIBLE SHEET ROOFING SYSTEMS FOR GREEN ROOF SYSTEMS	• A-105 & A-300s	REQ. SUBMITTAL
07620	FLASHING, SHEET METAL, GUTTERS, AND DOWNSPOUTS	• A-105 & A-300s	REQ. SUBMITTAL
07720	ROOF SPECIFICITIES & ACCESSORIES	• A-105 & A-300s	REQ. SUBMITTAL / SHOPS
07811	SPRAY FIREPROOFING	• A-060s	REQ. SUBMITTAL / SHOPS
07842	FIRE-RESISTIVE JOINT SYSTEMS	• A-060s	REQ. SUBMITTAL
07910	PREFORMED JOINT SEALERS	• A-500s	
07920	SEALANTS AND CAULKING	• A-500s	

PROJECT CLOSEOUT, PROTECTION, AND CLEANING

GENERAL

A. Before requesting inspection for Certification of Substantial Completion (as defined by the Contract), complete the following:

1. Submit specific warranties, workmanship bonds, maintenance agreements, final certifications and similar documents. Submit record drawings, maintenance manuals, final project photographs, damage or settlement survey, property survey, as built survey by a certified engineer, and similar record information.
2. Change-over permanent locks and transmit keys to the Owner.
3. Complete start-up testing of systems, and instruction of the Owner's personnel. Remove temporary facilities and temporary utilities from the site, along with construction tools, mock-ups & similar elements.
 - a) Complete final clean up. Touch-up and repair and restore marred exposed finishes
4. List all punch items and provide estimated costs to complete.

B. Before requesting inspection for certification of final acceptance (as defined by the Contract) and final payment, complete the following in addition to the contract requirements:

1. Submit final payment request with releases.
2. Submit a final statement, accounting for changes to the Contract Sum.
3. Submit a copy of the final inspection list provided by the Owner and the Owner's designees and Consultants stating that each item has been completed or otherwise resolved for acceptance.
4. Submit final meter readings for utilities, a record of stored fuel, and similar data as of Substantial Completion.
5. Submit consent of surety to final payment.
6. Submit evidence of continuing insurance coverage complying with insurance requirements.

C. Record Document Submittals: Do not use Record Documents for construction purposes; protect from loss in a secure location; provide access to Record Documents for the Architect's reference.

D. Record Drawings: Maintain a clean, undamaged set of blue or black line white-prints of Contract Drawings and Shop Drawings. Mark-up these drawings to show the actual installation. Mark whichever drawing is most capable of showing conditions accurately. Give particular attention to concealed elements that would be difficult to measure and record at a later date.

E. Operating and Maintenance Instructions: Prior to application for Substantial Completion, arrange for the installer of equipment that requires regular maintenance to meet with the Owner's personnel to provide instruction in proper operation and maintenance. Include a detailed review of the following:

1. Maintenance manuals.
2. Spare parts and materials.
3. Tools.
4. Lubricants.
5. Control sequences.
6. Hazards.
7. Warranties and bonds.
8. Maintenance agreements and similar continuing commitments.

F. During construction it is the General Contractor's responsibility to maintain a neat and orderly job site and to protect all installed elements from damage or staining during construction. Many structural materials do not receive further finish materials and therefore need to be carefully protected. Examples of unacceptable activity that must be avoided include but are not limited to:

1. Concrete over-pour, splatters, streaks or other stains on any existing materials especially metal panels or studs.
2. Any stains on concrete slabs from any source including mud.
3. Permanent or incompatible materials used for interim markings on materials to be left in a natural finish. (Such as spray paint on slab work)
4. Flux or compound from welding or other attachment procedures especially piping.

G. See Section 01001 for LEED requirements if applicable.

SPECIFICATIONS BASIS OF DESIGN

(PER CSI 16 DIVISIONS)

DIVISION NO.	DIVISION DESCRIPTION	SHEET LOCATION	REMARKS
08110	STEEL DOORS & FRAMES	• A-080	REQ. SUBMITTALS
08332	STORAGE UNIT DOORS	• A-080	REQ. SUBMITTALS
08461	AUTOMATIC SLIDER DOORS	• A-080	REQ. SUBMITTALS
08520	ALUMINUM ENTRANCES, STOREFRONTS & WINDOWS	• A-080 & A-081	REQ. SHOPS
08711	FINISH HARDWARE	• A-080	REQ. SUBMITTALS
08861	SECURITY AND GLAZING SAFETY FILM	• A-080 & A-081	REQ. SUBMITTALS
09260	GYPSUM BOARD	• A-070	REQ. SUBMITTALS
09310	CERAMIC TILE	• A-400s	
09510	SUSPENDED CEILINGS	• A-400s	
09650	RESILIENT FLOORING	• A-400s	
09651	COMPOSITE TILE	• A-400s	
09680	CARPET	• A-400s	
09911	PAINTING	• A-200s, A-400s	
09960	WATER REPLENT COATING	• A-400s	REQ. SUBMITTALS
09961	EPOXY / MORTAR FLOORNG SYSTEM	• A-400s	
10200	LOUVERS, VENTS	• A-100s, A-200s	SEE MECH DWGs
10265	IMPACT RESISTANT WALL PROTECTION	• A-406	
10431	INTERIOR & EXTERIOR SIGNAGE	• A-200s & A-400s	REQ. SHOPS
10522	FIRE EXTINGUISHERS, CABINETS, & ACCESSORIES	• A-100s	REQ. SHOPS
10536	AWNINGS	• A-200s	REQ. SHOPS
10550	MAIL SLOT	• A-080	REQ. SUBMITTAL
10600	STORAGE PARTITION & CORRIDOR WALL SYSTEMS	• A-070 & A-400s	REQ. SUBMITTAL
10801	TOILET & BATH ACCESSORIES	• A-400s	REQ. SUBMITTAL
11150	AUTOMATIC GATES & OPERATORS	• A-003	REQ. SUBMITTAL
11160	DOCK BUMPERS, BOLLARD COVERS, & COLUMN GUARDS	• A-003	REQ. SUBMITTAL
11451	RESIDENTIAL APPLIANCES	• A-400s	REQ. SUBMITTAL
12490	WINDOW TREATMENTS	• A-400	
14210	TRACTION ELEVATORS	• A-420s	REQ. SHOPS
15330	SPRINKLER SYSTEMS	• SEE PLUMB. DWGs	REQ. SHOPS
15400	PLUMBING PIPING, FIXTURES & EQUIPMENT	• SEE PLUMB. DWGs	REQ. SUBMITTALS
15510	HEATING, COOLING, & AIR HANDLING	• SEE MECH DWGs	REQ. SUBMITTALS
15550	CONTROLS	• SEE MECH DWGs	REQ. SUBMITTALS
15960	BALANCING & TESTING	• SEE MECH DWGs	
16050	BASIC ELECTRIC MATERIALS & METHODS	• SEE ELEC. DWGs	
16500	SERVICE AND DISTRIBUTION	• SEE ELEC. DWGs	REQ. SUBMITTALS / SHOPS
16511	INTERIOR LUMINARIES	• SEE ELEC. DWGs	
16521	EXTERIOR LUMINARIES	• SEE ELEC. DWGs	
16720	SECURITY SYSTEM	• A-040s	
16725	ALARM AND DETECTION SYSTEMS	• SEE ELEC. DWGs	
16740	TELEPHONE & DATA SYSTEMS	• A-400s	

PRODUCTS (Per Industry Standards)

EXECUTION

A. Organize record drawing sheets into manageable sets, bind with durable paper cover sheets, and print suitable titles, dates and other identification on the cover.

B. Record Specifications: Maintain one copy of the Project Manual, including addenda. Mark to show variations in actual Work performed in comparison with the Specifications and modifications. Give particular attention to substitutions, selection of options and similar information on elements that are concealed or cannot be readily discerned later by direct observation. Note related recording drawing information and Product Data.

C. Maintenance Manuals: Organize maintenance data into sets of manageable size. Bind in individual heavy-duty 2-inch, 3-ring vinyl-covered binders, with pocket folders for folded sheet information. Mark identification on front and spine of each binder. Include the following information:

1. Emergency instructions.
2. Spare parts list.
3. Copies of warranties.
4. Wiring diagrams.
5. Recommended "turn around" cycles.
6. Inspection procedures.
7. Shop Drawings and Product Data.
8. Fixture lamping schedule.

D. Final Cleaning Immediately Prior to Occupancy:

1. All storage area walls & floors are to be shop vacuumed with scrubber brush machine.
2. Sweep down remove dust and small construction debris from all sidewalks streets, floors and storage areas. Clean and vacuum all door threshold, patio doors and window sills, including tracks. Dust all horizontal surfaces, including shelves, moldings and vanities. Polish all fixtures (bath and electrical).
3. Wash and wax all vinyl floors in accordance with the manufacturer's specification, to remove all marks and construction adhesives. Vacuum all carpeted floors.
4. Remove paint from and clean all windows, inside and outside, without damage to aluminum frames, wood trim or doors. (All window screens to be installed at final cleaning.)
5. Clean and dust with a treated cloth, all counter tops, cabinets and vanities, inside and outside and remove all small construction debris and place debris in containers provided by the builder.
6. Remove all manufacturers' labels, except energy labels on appliances. Clean all kitchen appliances, inside and outside.
7. Clean and wipe down all HVAC & mechanical systems including but not limited to all pumps gauges etc.
8. General Contractor is to reclean as required after continuing construction work and punchlist work until final acceptance by the Owner.

ISSUE DATE

1 Permit Set	3/23/20
--------------	---------

● REVISION DATE ●

1454 39th Street Self Storage

Safe N Lock
1454 39TH ST
BOROUGH OF

B30W

BUTZ•WILBERN LTD

Planning | Architecture
Interiors | Property Visioning

800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010



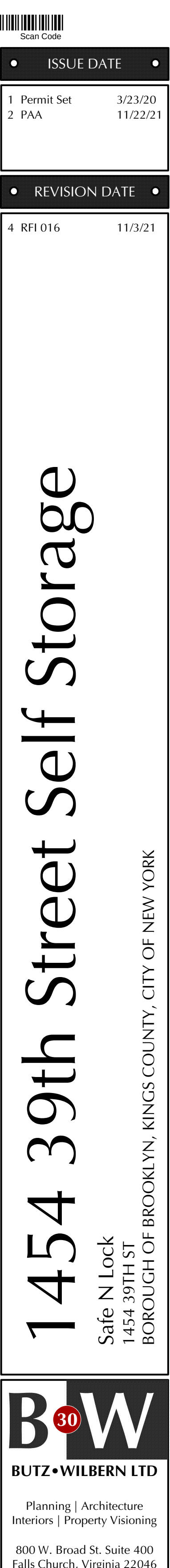
© Butz•Wilbern Ltd. 2019

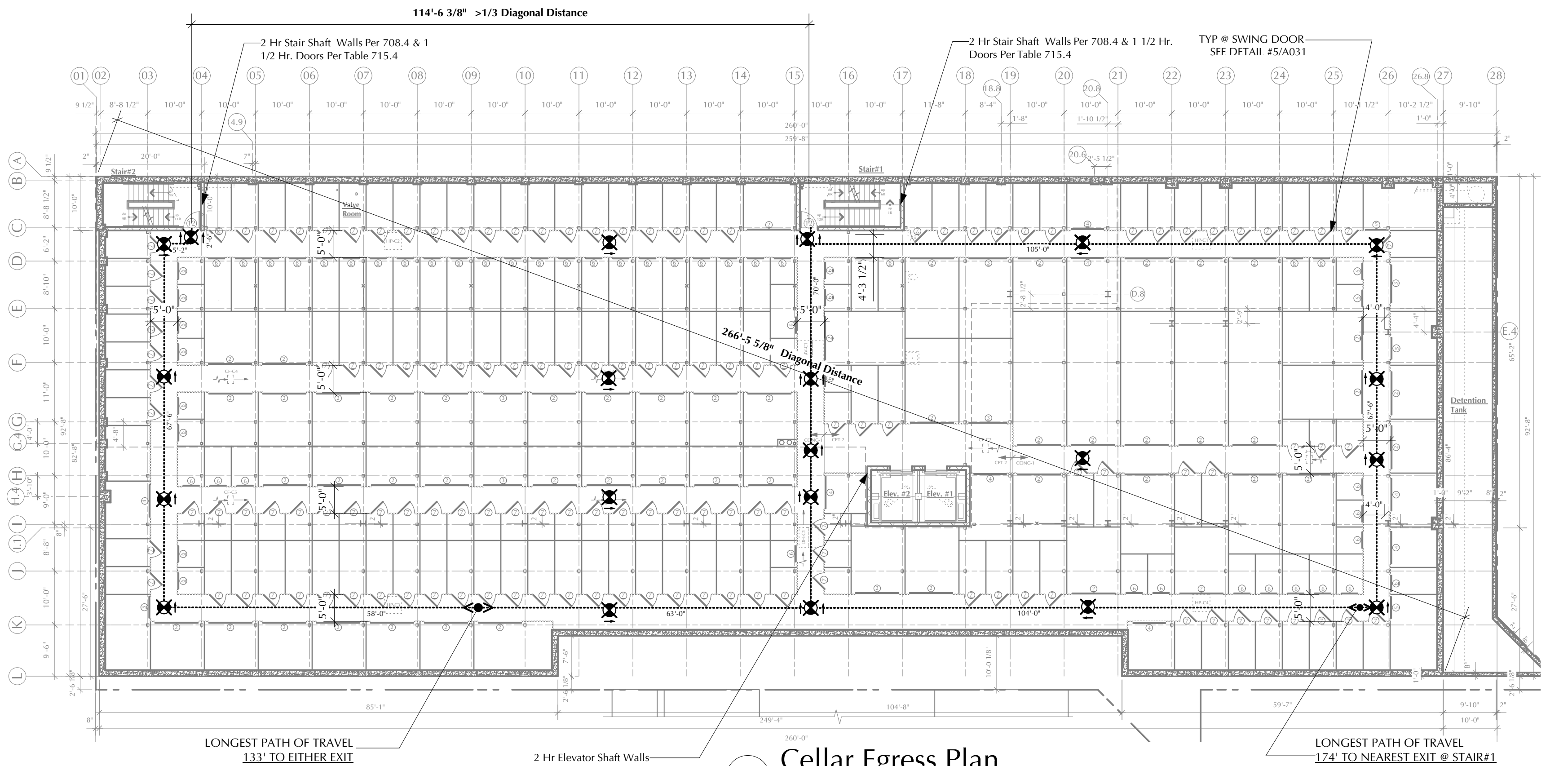
SPECIFICATION
INDEX

A-003.00

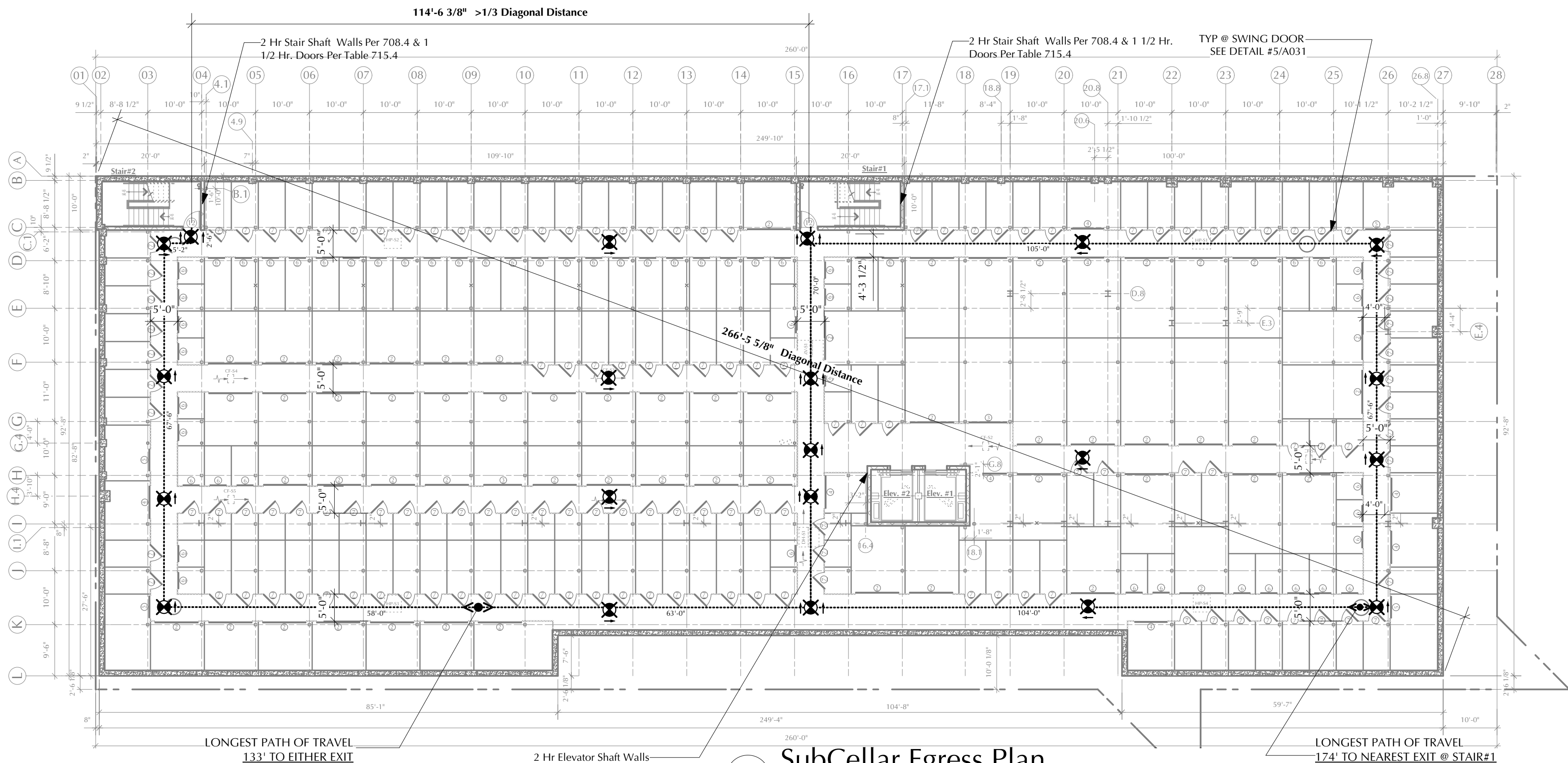
3 OF 48

19010





2 Cellar Egress Plan
Scale: 1/16" = 1'-0"



1 SubCellar Egress Plan
Scale: 1/16" = 1'-0"

OCCUPANT LOAD CALCULATIONS

OCCUPANT LOAD (PER TABLE 1004.1.1)				
	NET FLOOR AREA: 500 (FLOOR AREA PER OCCUPANT) (WAREHOUSE OCCUPANCY)	NET FLOOR AREA: 100 (FLOOR AREA PER OCCUPANT) (BUSINESS OCCUPANCY)	NET FLOOR AREA: 100 (FLOOR AREA PER OCCUPANT) (PARKING OCCUPANCY)	TOTAL OCCUPANT LOAD PER FLOOR
SUBCELLAR FLOOR	22,325 SF : 500 = 45	N/A	N/A	45
CELLAR FLOOR	22,325 SF : 500 = 45	N/A	N/A	45
FIRST FLOOR	8,133 SF : 500 = 16	948 SF : 100 = 9	5,708 SF : 100 = 57	82
SECOND FLOOR	16,188 SF : 500 = 32	N/A	N/A	32
THIRD FLOOR	16,188 SF : 500 = 32	N/A	N/A	32
FOURTH FLOOR	16,188 SF : 500 = 32	N/A	N/A	32
TOTAL BUILDING OCCUPANT LOAD:				268

BUILDING AREAS FOR USE GROUP S-1, S-2, B

(SEE Z-002 AREA CALCULATION SHEET FOR FURTHER DETAILS)			
	S-1 (MODERATE-HAZARD STORAGE)	B (BUSINESS)	S-2 (LOW-HAZARD STORAGE)
SUBCELLAR FLOOR	22,325 SF	N/A	N/A
CELLAR FLOOR	22,325 SF	N/A	N/A
FIRST FLOOR	8,133 SF	948 SF	5,708 SF
SECOND FLOOR	16,188 SF	N/A	N/A
THIRD FLOOR	16,188 SF	N/A	N/A
FOURTH FLOOR	16,188 SF	N/A	N/A

MAX EGRESS DISTANCE

MAX TRAVEL DISTANCE ALLOWED = 200' PER TABLE 1016.1		
S-1 ((MODERATE HAZARD STORAGE)		NOTE
SUBCELLAR	174 FEET	OK
CELLAR	174 FEET	OK
1ST. FLOOR	89 FEET	OK
2ND. FLOOR	147 FEET	OK
3RD FLOOR	147 FEET	OK
4TH FLOOR	142 FEET	OK

EGRESS COMPONENT SIZING

	OCCUPANCY LOAD	EGRESS COMPONENT	OCCUPANTS SERVED TABLE 1004.1.2	INCHES PER OCCUPANT SECTION 1005.3.1 & 1005.3.2	WIDTH (INCHES) REQUIRED	WIDTH (INCHES) PROVIDED	NOTE
MAX TRAVEL DISTANCE = 200' PER TABLE 1016.1 & DEAD ENDS MAX. 50 FT PER SECTION 1018.4							
SUBCELLAR	45 (PER FLOOR)						
S-1-STORAGE		* AISLE	22	0.2	36 (PER 1017 & 1104)	60 & 48	COMPLIES
		DOOR (SWING)	22	0.2	32 (PER 1008.1.1.1)	34	COMPLIES
		STAIR #1	22	0.3	44 (PER 1009.1)	44	COMPLIES
		STAIR #2	22	0.3	44 (PER 1009.1)	44	COMPLIES
CELLAR	45 (PER FLOOR)						
S-1-STORAGE		* AISLE	22	0.2	36 (PER 1017 & 1104)	60 & 48	COMPLIES
		DOOR (SWING)	22	0.2	32 (PER 1008.1.1.1)	34	COMPLIES
		STAIR #1	22	0.3	44 (PER 1009.1)	44	COMPLIES
		STAIR #2	22	0.3	44 (PER 1009.1)	44	COMPLIES
FIRST FLOOR	16 (PER FLOOR)						
S-1-STORAGE		* AISLE	8	0.2	36 (PER 1017 & 1104)	60	COMPLIES
		DOOR (SWING)	8	0.2	32 (PER 1008.1.1.1)	34	COMPLIES
		DOOR (SLIDER)	8	0.2	32 (PER 1008.1.1.1)	34	COMPLIES
		STAIR #1	8	0.3	44 (PER 1009.1)	44	COMPLIES
		STAIR #2	8	0.3	44 (PER 1009.1)	44	COMPLIES
		DOOR (SWING)	57	0.2	32 (PER 1008.1.1.1)	34	COMPLIES
S-2 PARKING OFFICE	57 9	DOOR (SWING)	9	0.2	32 (PER 1008.1.1.1)	34	COMPLIES
SECOND FLOOR	32 (PER FLOOR)						
S-1-STORAGE		* AISLE	16	0.2	36 (PER 1017 & 1104)	60 & 56	COMPLIES
		DOOR (SWING)	16	0.2	32 (PER 1008.1.1.1)	34	COMPLIES
		STAIR #1	16	0.3	44 (PER 1009.1)	44	COMPLIES
		STAIR #2	16	0.3	44 (PER 1009.1)	44	COMPLIES
THIRD FLOOR	32 (PER FLOOR)						
S-1-STORAGE		* AISLE	16	0.2	36 (PER 1017 & 1104)	60 & 56	COMPLIES
		DOOR (SWING)	16	0.2	32 (PER 1008.1.1.1)	34	COMPLIES
		STAIR #1	16	0.3	44 (PER 1009.1)	44	COMPLIES
		STAIR #2	16	0.3	44 (PER 1009.1)	44	COMPLIES
FOURTH FLOOR	32 (PER FLOOR)						
S-1-STORAGE		* AISLE	16	0.2	36 (PER 1017 & 1104)	60 & 56	COMPLIES
		DOOR (SWING)	16	0.2	32 (PER 1008.1.1.1)	34	COMPLIES
		STAIR #1	16	0.3	44 (PER 1009.1)	44	COMPLIES
		STAIR #2	16	0.3	44 (PER 1009.1)	44	COMPLIES

NOTES:
1. AISLES ARE SERVED BY TWO EXITS IN OPPOSITE DIRECTIONS.
2. OCCUPANT LOAD FOR AISLE DESIGN IS THE NUMBER OF OCCUPANT LOAD PER FLOOR DIVIDED IN HALF

PLUMBING FIXTURE CALCULATIONS

CALCULATED OCCUPANT LOAD:

(USED FOR EGRESS CALCULATIONS)

S-1 (STORAGE)	202 PERSONS
S-2 (STORAGE)	57 PERSONS
B (BUSINESS)	9 PERSONS
TOTAL CALCULATED OCCUPANT LOAD =	268 PERSONS

DESIGN OCCUPANT LOAD:

(BASED ON EMPIRICAL FIELD EXPERIENCE)

BASED ON 1 CAR (2 PERSONS) / 1 HR PER 100 UNITS
PROJECT TOTAL 1,938 UNITS
(1,938 /100) X 2 = 38 OCCUPANTS + 2 EMPLOYEES @ OFFICE =40 PERSONS

OCCUPANCY	FIXTURE TYPE	NUMBER OF FIXTURES REQUIRED PER 2015 IPC TABLE 403.1	NUMBER OF FIXTURES PROVIDED	NOTE
S-1 (STORAGE)	WATER CLOSET	1 PER 100 PERSONS	1	COMPLIES
	LAVATORY	1 PER 100 PERSONS	1	COMPLIES
	BATHTUB / SHOWER	0	0	COMPLIES
	DRINKING FOUNTAIN	1 PER 1,000 PERSONS	1	COMPLIES
	SERVICE SINK	1	1	COMPLIES
	CLOTHES WASHER CONNECTION	0	0	COMPLIES
B (BUSINESS)	WATER CLOSET	1 PER 25 PERSONS	1	COMPLIES
	LAVATORY	1 PER 40 PERSONS	1	COMPLIES
	BATHTUB / SHOWER	0	0	COMPLIES
	DRINKING FOUNTAIN	0 PER 410.2	0	COMPLIES
	SERVICE SINK	0 PER 403.1 NOTE e	0	COMPLIES
	KITCHEN SINK	0	1	COMPLIES
	CLOTHES WASHER CONNECTION	0	0	COMPLIES

ISSUE DATE

1 Permit Set 3/23/20

REVISION DATE

1454 39th Street Self Storage

Safe N Lock
1454 39TH ST
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK

B³⁰W
BUTZ•WILBERN LTD

Planning | Architecture
Interiors | Property Visioning
800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010

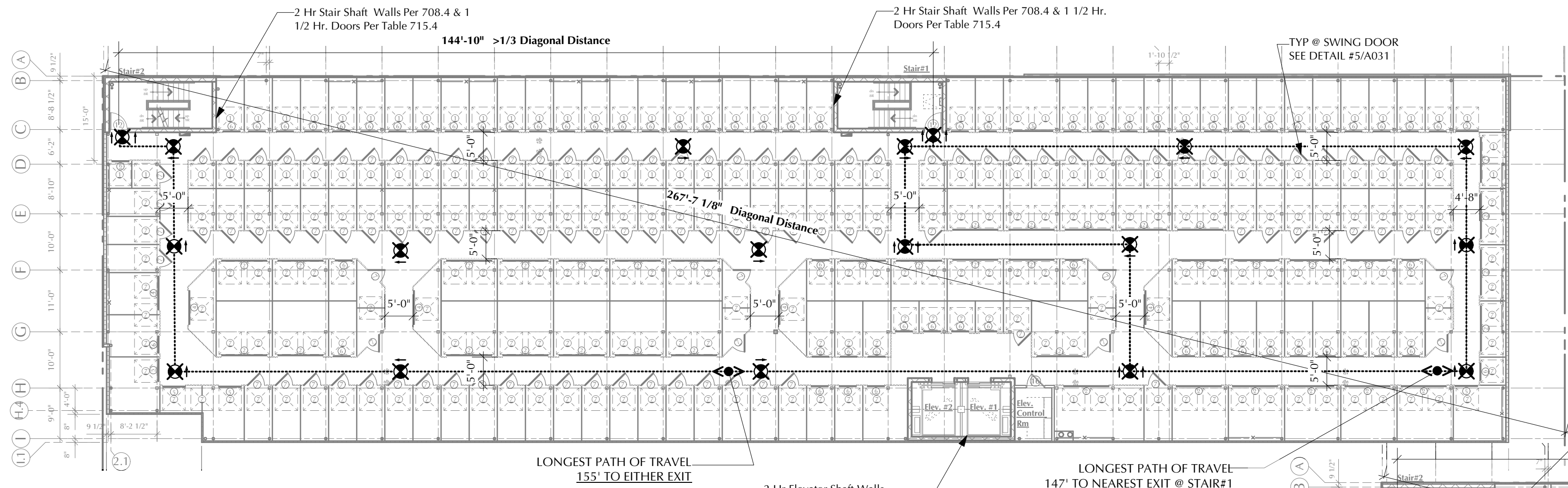


EGRESS

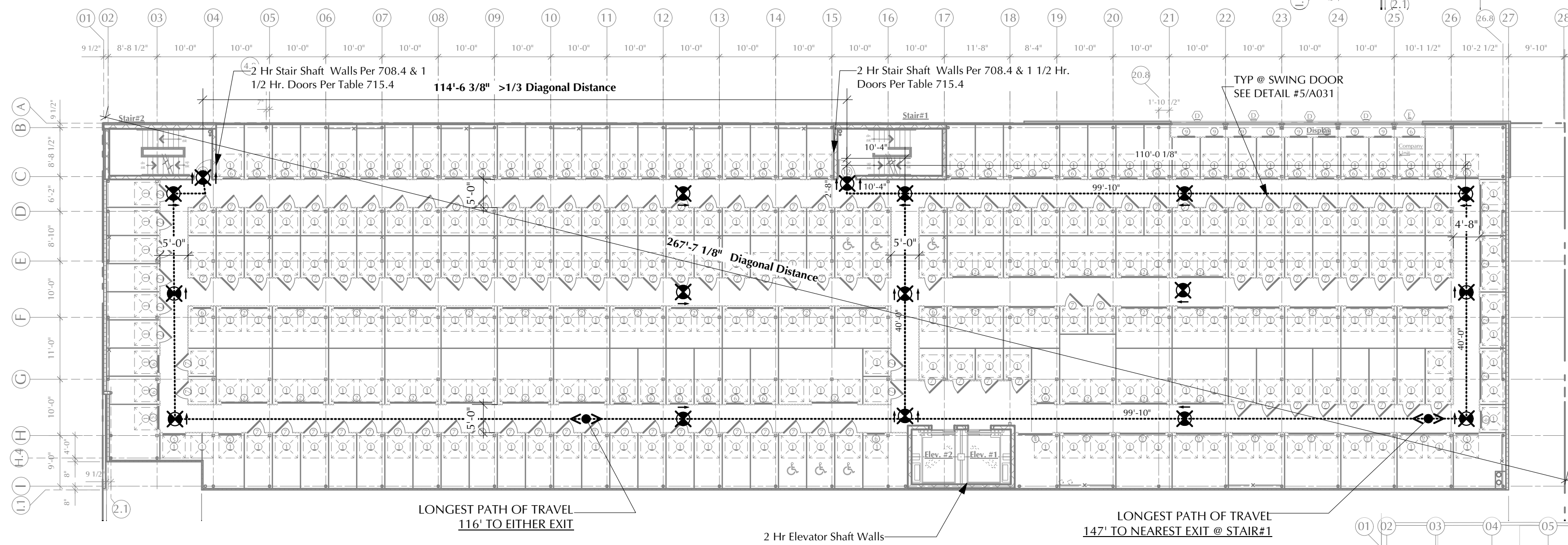
A-030.00

7 OF 48

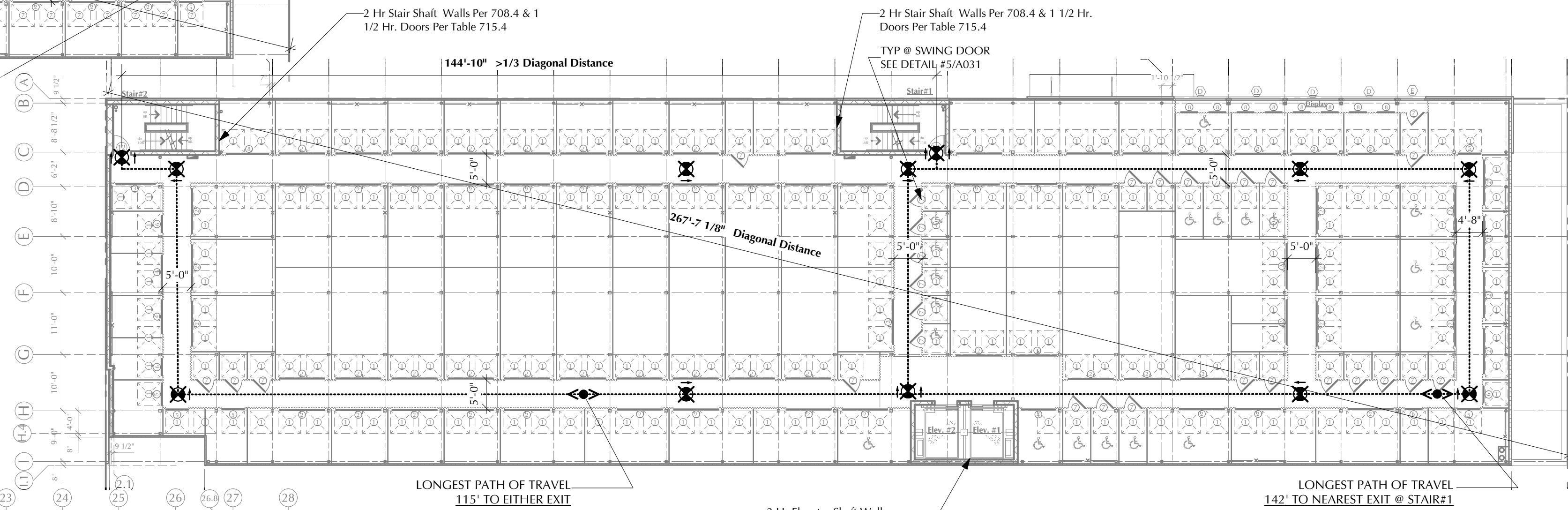
19010



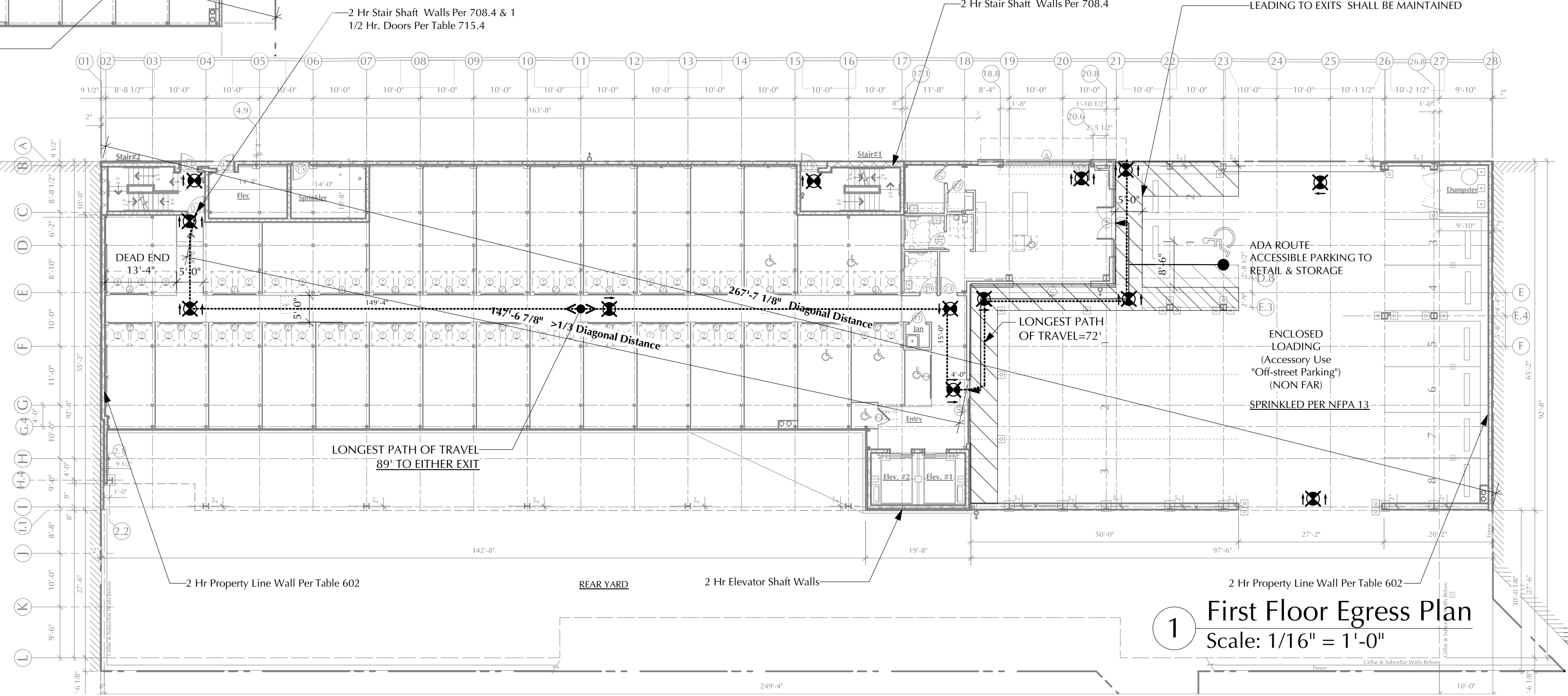
4 4th Floor Egress Plan
Scale: 1/16" = 1'-0"



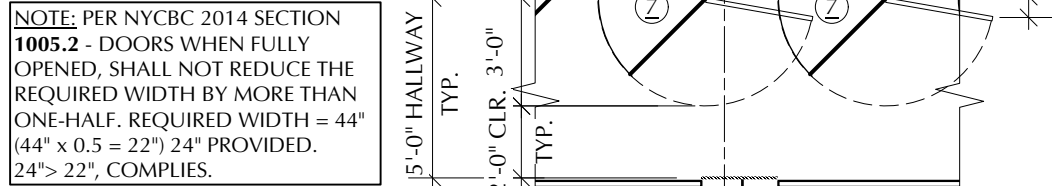
3 3rd Floor Egress Plan
Scale: 1/16" = 1'-0"



2 2nd Floor Egress Plan
Scale: 1/16" = 1'-0"



1 First Floor Egress Plan
Scale: 1/16" = 1'-0"



5 Typ Door Swing Detail
Scale: 3/16" = 1'-0"

ISSUE DATE

1 Permit Set3/23/20

REVISION DATE

1454 39th Street Self Storage

Safe N Lock
1454 39TH ST
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK

B³⁰W

BUTZ•WILBERN LTD

Planning | Architecture
Interiors | Property Visioning

800 W. Broad St, Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010

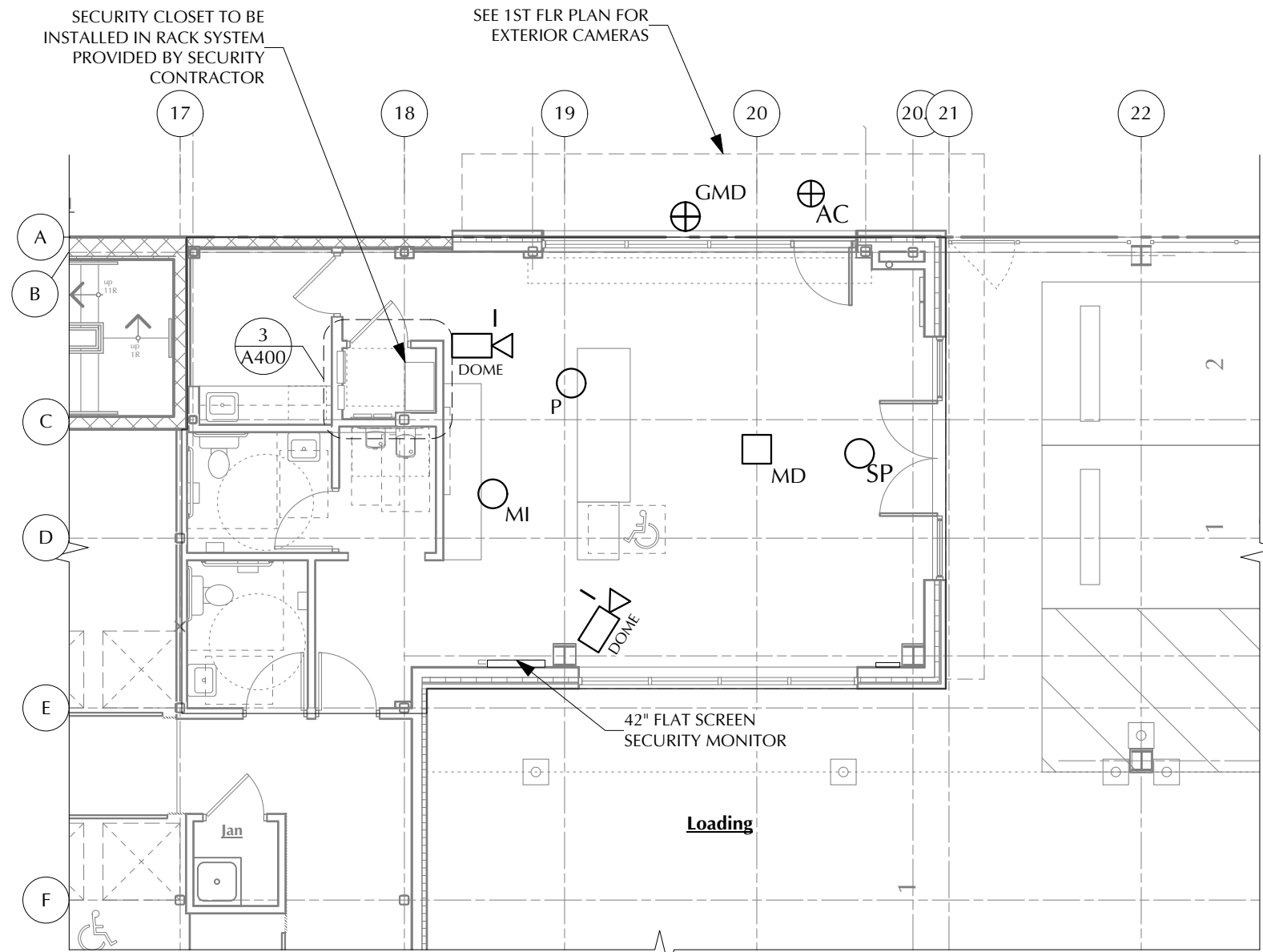
EGRESS

A-031.00

8 OF 48

19010

SECURITY SYSTEM SEQUENCE OF OPERATIONS:	
1. SECURITY CLOSET AT BREAK ROOM (CCTV SYSTEM TO BE FULL COLOR MONITORS, MULTIPLEXORS, AND DVR SYSTEM)	
2. DURING OPERATING HOURS ANY USE OF AN UNAUTHORIZED DOOR OR ALARM POINTS FOR THE STORAGE AREA OR OFFICE SHALL SOUND AN ALERT TO THE OFFICE WITHOUT ALERTING THE MONITORING COMPANY.	
3. BURGLAR ALARM OPERATION IT IS INTENDED THAT THE BURGLAR ALARM OPERATE IN THE FOLLOWING MANNER: -DURING OPERATING HOURS ANY USE OF AN UNAUTHORIZED DOOR OR ALARM POINTS FOR THE STORAGE AREA OR OFFICE SHALL SOUND AN ALERT TO THE OFFICE WITHOUT ALERTING THE MONITORING COMPANY. -DURING NON-OPERATING HOURS ANY USE OF AN UNAUTHORIZED DOOR OR ALARM POINTS FOR THE STORAGE AREA OR OFFICE SHALL SOUND AN AUDIBLE ALARM WHICH WILL BE TRANSMITTED TO THE MONITOR ALARM SYSTEM SHALL HAVE THE CAPABILITY TO PROGRAM DIFFERENT OPERATING HOURS FOR THE OFFICE AND STORAGE AREA. -ALARM MONITORING IS TO BE DONE ON A STANDARD DIGITAL ACCOUNT WITH UNSUPERVISED OPEN/CLOSED. -A CELLULAR BACKUP IS TO BE USED., THE CUSTOMER MUST ACCESS TO THEIR SITES OPEN/CLOSED REPORTS VIA THE WEB, E-MAIL, FAX OR PHONE. IN THE EVENT OF AN ALARM THE SITE IS TO BE CALLED FIRST, THEN, THE SITE MANAGER, REGIONAL MANAGER FOLLOWED BY THE FACILITIES DEPARTMENT. -ALL PANIC BUTTONS SHALL BE ACTIVE AND TRANSMIT SIGNAL TO THE MONITORING COMPANY DURING ALL OPERATING AND NON-OPERATING HOURS. -PANIC BUTTONS ARE TO BE INSTALLED NEXT TO EACH CASH DRAWER. PANICS CAN BE WIRED NORMALLY OPEN WITH THE RESISTOR ACROSS THE TERMINALS OF THE LAST ONE. RUN 22 GAUGE 4 CONDUCTOR WIRE 4. ACCESS CONTROL ELEVATOR-PTI IS TO BE THE BASIS OF DESIGN ACCESS CONTROL SYSTEM. 5. DOOR AJAR ALARMS AT STAIR EXIT DOORS, EXTERIOR ACCESS UTILITY ROOMS. 6. ACCESS CONTROL KEYPADS ARE TO BE INSTALLED AT ALL EXTERIOR ENTRANCE DOORS. 7.KEYPADS ARE TO BE LOCATED NEXT TO EACH OTHER BEHIND THE COUNTER OR IN THE BACK ROOM. 8.KEYPADS ARE TO BE SECURELY MOUNTED TO THE WALL AT A HEIGHT OF 5'4" TO THE TOP. 9.ALL ZONES SHALL BE UNIQUELY LABELED IN THE KEYPADS ALPHA DISPLAY I.E. "RIGHT OVERHEAD DOOR" NOT "ZONE 14" THIS WILL LET THE MANAGER KNOW WHICH DOORS HESHE NEEDS TO CHECK OR HAVE SERVICED. 10. PROVIDE REMOTE ACCESS SYSTEM TO CHANGE CAMERAS AND SETTING AT 42" DISPLAY MONITOR 11. ANY CAMERA IS ACCEPTABLE PROVIDING IT MEETS THESE REQUIREMENTS: -THE CAMERAS COLOR RESOLUTION MUST BE AT LEAST 380 LINES -IF THE CAMERA HAS IR LED'S IT MUST HAVE SPLIT GLASS TECHNOLOGY OR SIMILAR (TO THE IR LED'S DON'T CAUSE GLARE IN THE LENS WHEN THEY ARE ON). -THE CAMERA MUST BE TRUE DAY/NIGHT. -ALL CAMERAS MUST BE CONNECTED WITH BNC CONNECTORS. -NO CUT AND SPLICED CONNECTIONS. -24 VOLT AC IS PREFERRED 12 VOLT DC IS ACCEPTABLE -1/3" CCD SENSOR -NOT MORE THAN 0.1 LUX (COLOR) 0.03 LUX B/W -VARI-FOCAL LENS APPROX 3-9MM PREFERRED 12. INTERCOM. THE MASTER STATION IS TO BE INSTALLED ON THE OFFICE COUNTER AREA NEAR THE BACK WALL. ALL STATIONS ARE TO BE CLEARLY LABELED AND FREE OF STATIC AND ELECTRICAL INTERFERENCE. TO GUARD AGAINST STATIC EACH STATION SHOULD BE HOMERUN BACK TO THE MASTER ON 18 GAUGE 2 CONDUCTOR SHIELD CABLE. THE MASTER STATION SHOULD BE POWERED BY THE PROPER MANUFACTURER'S MATCHING POWER SUPPLY. 13. 4-WAY INTERCOM SYSTEM WITH MUSIC INTERFACE. MASTER INTERCOM AT OFFICE FRONT DESK KEY PAD ENCLOSURE, AUDIBLE ALARM WITH ALL ASSOCIATED WIRING AND ACCESSORIES THE INTERCOM SUB STATIONS ARE TO BE MOUNTED AT A HEIGHT OF 48" TO THE CENTER OF THE BUTTON. 14.THE CABLE IS TO BE IN SHIELDED CONDUIT SURFACE MOUNTED TO THE WALL AND CONNECTED WITH COMPRESSION CONNECTORS (NOT SET SCREW CONNECTORS). IF THE STATION IS FLUSH MOUNTED THE CONDUIT MUST RUN INSIDE THE UNIT. OFFSET BENDS MUST BE MADE SO THE CONDUIT IS FLAT AGAINST THE WALL. 15.THE SPEAKERS MUST HAVE A BUILT IN TRANSFORMER TO SELECT VOLTAGE. THEY MUST BE MOUNTED WITH THE CORRECT BACK BOX. 16.ALL SPEAKERS MUST BE WIRED USING 18 GAUGE 2 CONDUCTOR OR THICKER. THE INSTALLING COMPANY MAY RUN THE SPEAKERS IN A DAISY CHAIN BUT SHOULD BREAK THE SPEAKERS INTO ZONES. 17.BRING AT LEAST ONE 18/2 TO THE AMP FROM EACH FLOOR. THE AMPLIFIER MUST BE A COMMERCIAL AMP SELECTABLE BETWEEN 25-70 VOLT. IT MUST HAVE A MICROPHONE INPUT AND 3 AUX INPUTS. 18. A MINIMUM OF THREE SIRENS SHOULD BE INSTALLED AT EACH SITE. INTERIOR SIRENS SHOULD BE NO LESS THAN 95DB. EXTERIOR SIRENS SHOULD BE NO LESS THAN 120DB. 19.RUN 18 GAUGE2 CONDUCTOR. TAMPER SWITCH MAY BE CONNECTED ON EXTERIOR SIRENS WITH 22 GAUGE 2 CONDUCTOR. 20.PANIC BUTTON AT OFFICE FRONT DESK 21.BURGLAR ALARM BASIS OF DESIGN IS A HONEYWELL VISTA 20SE OR VISTA 50P. THE INSTALLING COMPANY IS TO USE TWO SEPARATE PARTITIONS AND TWO ALPHA NUMERIC KEYPADS. ONE PARTITION FOR THE OFFICE AND THE SECOND FOR THE STORAGE AREA. ALL EXPOSED ALARM WIRES BELOW 10 FEET MUST BE IN CONDUIT (WIRES MAY BE CONCEALED IN THE WALL).THE INSTALLING COMPANY IS TO RUN ALL ALARM WIRES BACK TO THE PANEL. LATCH INDIVIDUAL DOOR CONTACT, MOTION DETECTOR, GLASS BREAK DETECTOR, ECT., IS BE ON ITS OWN ZONE WITH AN EOL (END OF LINE) RESISTOR. 22.PANIC BUTTONS MAY BE ON THE SAME WIRE WITH END OF LINE RESISTANCE. 23. MOTION DETECTORS ARE TO BE INSTALLED AT ALL AUTOMATIC DOORS. MOTIONS SHOULD BE MOUNTED AT 8 FEET UNLESS OTHERWISE SPECIFIED IN THE MOTIONS SPEC SHEET. THE END OF LINE RESISTOR SHOULD BE INSTALLED INSIDE THE MOTIONS HOUSING. ALL WIRES BELOW 10 FEET ARE TO BE IN CONDUIT. THE MOTIONS TAMPER SWITCH SHOULD BE WIRED TO A ZONE SEPARATE FROM THE MOTION. ONLY DUAL TECH MOTIONS ARE TO BE INSTALLED. 24. RUN 1-22 GAUGE 6 CONDUCTOR WIRE 25. BEFORE SECURITY SYSTEM INSTALLATION, GENERAL CONTRACTOR MUST DO A FINAL COORDINATION W/ OWNER FOR SYSTEM FUNCTIONALITY & SYSTEM DEVICES FINAL LOCATION	

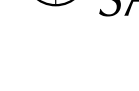
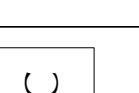
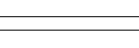


1

A-400

Retail & Rental Area Security Plan

1/8" = 1'-0"

SECURITY SPECIFICATIONS									
ICON	DESCRIPTION	COMMENTS	OFFICE	STAIR EXIT DOORS	ENTRY / LOADING	PERIMETER	INTERIOR HALLWAYS	ELEVATOR	EQUIPMENT SPECIFICATIONS
	SPEAKER INTERCOM WITH CALL BUTTONS	INCLUDE MUSIC REQUIREMENTS. TIE MUSIC TO ALL INTERCOMS AND ALL INTERCOMS TO MASTER INTERCOM. SCOPE TO INCLUDE 24V POWER SUPPLY, MUSIC ADAPTER, AM/FM TUNER AMP.	NONE	NONE	PER PLAN	NONE	PER PLAN	YES EACH LOBBY FLOOR	B.O.D.- AIPHONE SUB-STATION IE-SSR
	SPEAKER	TO BE TIED TO C SOURCE	YES W/SEPARATE VOLUME CONTROL	NONE	PER PLAN	NONE	PER PLAN	NONE	B.O.D.- SPECO TECHNOLOGIES DMS-3TS, WHITE
	MASTER INTERCOM	TO BE TIED TO ALL INTERCOMS	YES	NONE	NONE	NONE	NONE	NONE	B.O.D.- AIPHONE MASTER STATION AX-8MV W/ CENTRAL EXCHANGE AX-248C
	KEYPAD WITH SPEAKER INTERCOM CALL BUTTON & MUSIC CAPABILITY. EXT. KEYPADS TO BE WEATHER SAFE	TIED TO MASTER INTERCOM, SECURITY SYS., COMPUTER SYS., DOOR STRIKES AND DOOR STRIKE POWER SUPPLY INCLUDED.	YES	NONE	ENTRY SLIDERS ONLY	NONE	NONE	1KP PER ELEVATOR CAB	B.O.D.- PTI INTERCOM KEYPAD @ ALL LOCATIONS
	ALARM	INCLUDING ALARM, PANEL WITH ZONES FOR LOCAL, CENTRAL & BATTERY BACK IN OFFICE. INCLUDE PRICE FOR MONTHLY MONITORING	YES	AT EACH STAIR EXIT & ANY PUBLIC ENTRY (EXCEPT MAIN OFFICE ENTRY).TO STORAGE FACILITY,INCL. ROOF HATCHES, ALARM TO SEPARATE PANEL IN OFFICE-NOT TO CENTRAL STATION	PER PLAN	NONE	NONE	NONE	
	COLOR CAMERA	COLOR . ALL CAMERAS TO BE VISIBLE TO CUSTOMER & ALL EXT. CAMERAS TO BE IN HEATED WEATHERPROOF ENCLOSURE. MOUNT CAMERAS TO BUILDING STRUCTURE.	ONE INTERIOR COLOR CAMERA FACING TRANSACTION COUNTER	NONE	PER PLAN	EXTERIOR COLOR CAMERA FACING ENTRY AREAS	NONE	IN ENTRY AREAS AT EACH FLOOR POINTING AT ELEVATOR DOORS	INTERIOR AND EXTERIOR CAMERAS W/VANDAL PROOF DOMES- B.O.D.- DAHUA N44BG52 / N44BG53
	INDIVIDUAL DOOR ALARMS FOR STORAGE UNITS	AT ALL EXTERIOR GROUND FLOOR UNITS. TIED TO BURGLAR SYSTEM	NONE	NONE	EXT. UNITS PER PLAN	NONE	NONE	NONE	B.O.D.- QUICK SWITCH QS914MXX
	GLASS BREAK MOTION DETECTORS	TIED TO BOTH LOCAL & CENTRAL	YES - TO CENTRAL ALARM	NONE	NONE	NONE	SEE ELECTRICAL DRAWINGS	NONE	
	PANIC BUTTON	TIED TO CENTRAL ALARM	YES - BELOW FRONT COUNTER	NONE	NONE	NONE	NONE	NONE	
	COVERT CAMERA	HIDDEN CAMERA AT SAFE	AT SAFE	NONE	NONE	NONE	NONE	NONE	
	SECURITY MONITOR		YES	NONE	NONE	NONE	NONE	NONE	(1) WALL MOUNTED 55" LCD SCREEN- B.O.D.: LG55LS354 SERIES W/ HEAVY DUTY WALL MOUNTED BRACKET
SECURITY SYSTEMS NOTES: 1. ALL KEYPADS, CAMERAS, ALARMS, SENSORS, & GATES TO BE TIED TO SECURITY SYSTEM. B.O.D.- PTI FALCON XT, STORLOGIX W/ MANUFACTURER REQUIRED RELAY BOARD 2. GENERAL CONTRACTOR TO ENSURE COORDINATION BETWEEN THE ELEVATOR MFR., ELEVATOR INSTALLER AND THE SECURITY CONTRACTOR TO PROVIDE CAB CUTOUTS AND SHIELDED TRAVEL WIRING FOR ELEVATOR KEYPADS & CAMERAS. 3. GENERAL CONTRACTOR TO ENSURE COORDINATION BETWEEN SECURITY CONTRACTOR, ELECTRICAL CONTRACTOR, AND DOOR HARDWARE CONTRACTOR REGARDING CONDUIT AND POWER REQUIREMENTS FOR ALL EQUIPMENT INCLUDING CAMERAS. 4. PROVIDE UNINTERRUPTED POWER SUPPLY TO MAIN SECURITY SYSTEM. 5. PROVIDE SURGE PROTECTION DEVICE TO MAIN SECURITY SYSTEM CAPABLE OF SUSTAINING LIGHTNING STRIKES. 6. PROVIDE UPS FOR 2 HOURS MINIMUM. B.O.D.- APC BACK-UPS ES 650 7. ALL WIRING TO BE CAT-6 SECURITY SPECIFICATION NOTES: 1. SECURITY SYSTEM TO HAVE MODEM/REMOTE ACCESS INCLUDING ALL CAMERAS COORDINATE W/ THE ELEVATOR COMPANY TO INCLUDE ADDITIONAL REQUIRED TRAVELING CABLES 2. ALL UNIT DOORS ON GROUND FLOOR TO HAVE INDIVIDUAL DOOR ALARMS 3. INTERCOMS WILL BE OUTSIDE THE ELEVATORS. KEYPAD WILL BE INCLUDED IN THE ELEVATORS. COORDINATE W/ THE ELEVATOR COMPANY TO INCLUDE ADDITIONAL REQUIRED TRAVELING CABLES									

ISSUE DATE

1 Permit Set3/23/20

REVISION DATE

1454 39th Street Self Storage

Safe N Lock
1454 39TH ST
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK

B30W

BUTZ•WILBERN LTD

Planning | Architecture
Interiors | Property Visioning

800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010

REGISTERED ARCHITECT
BUTZ & WILBERN
140549
STATE OF NEW YORK

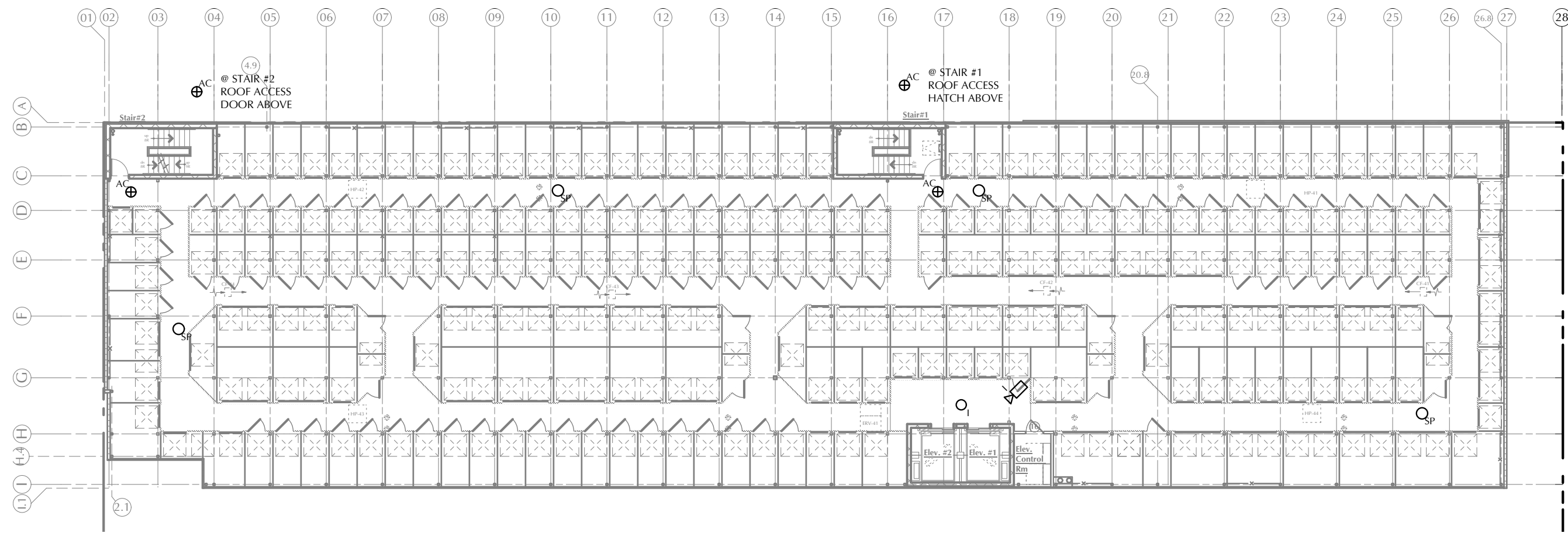
© Butz•Wilbern Ltd. 2019

SECURITY

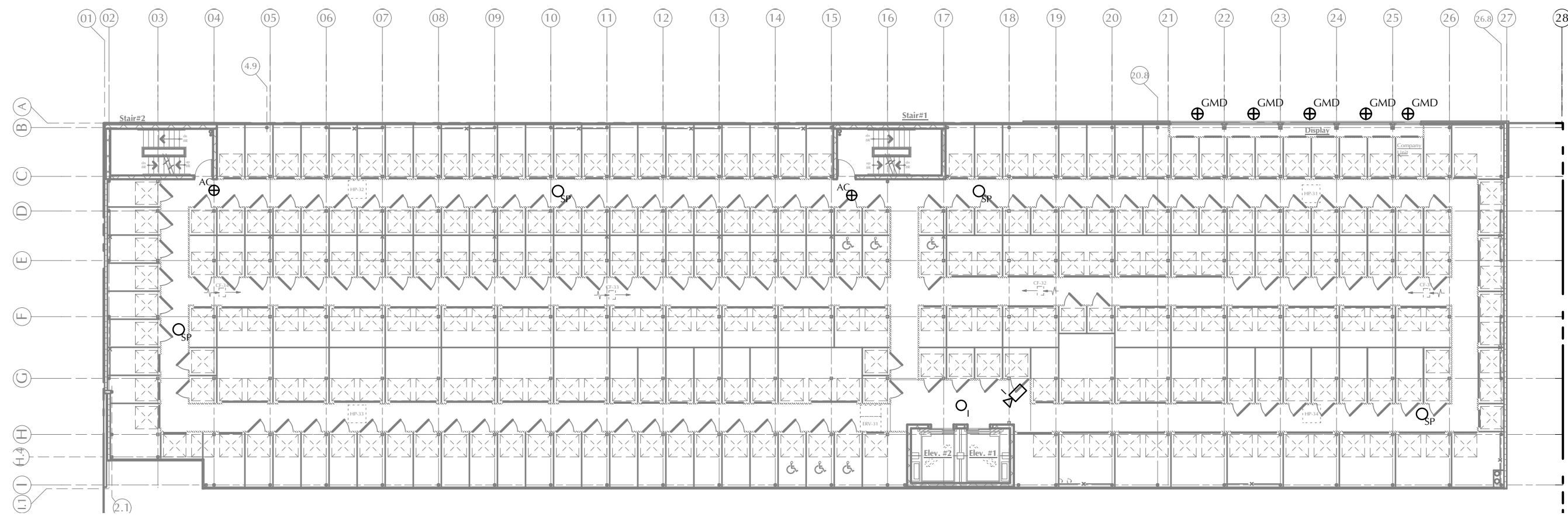
A-040.00

9 OF 48

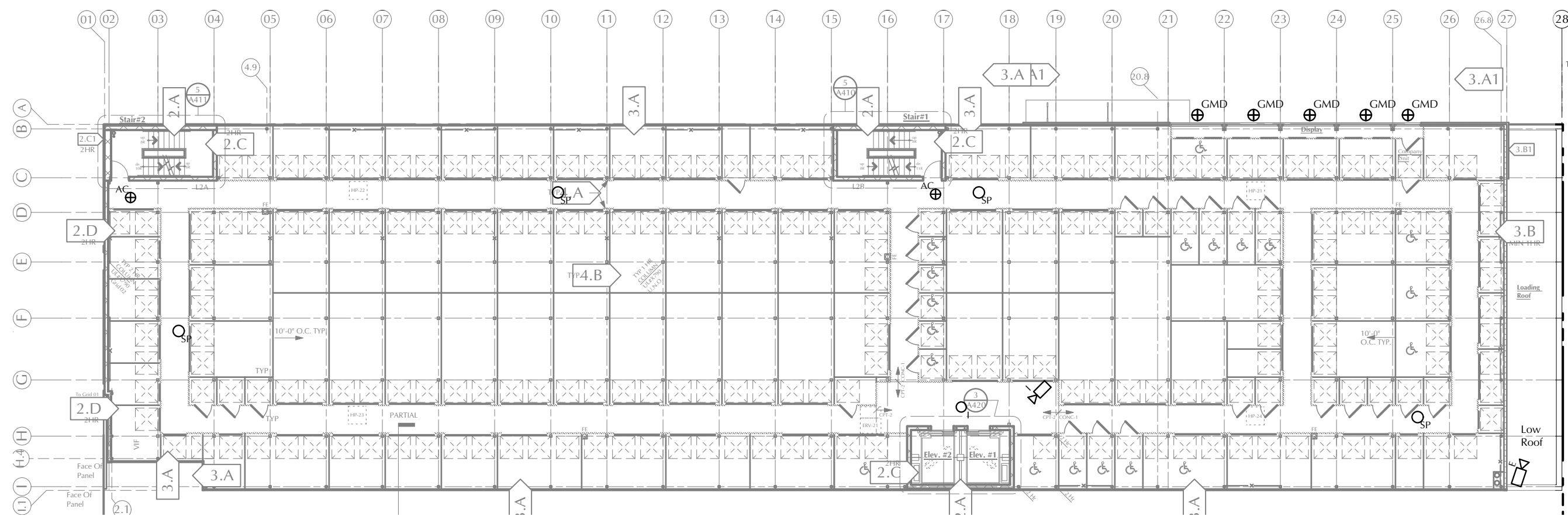
19010



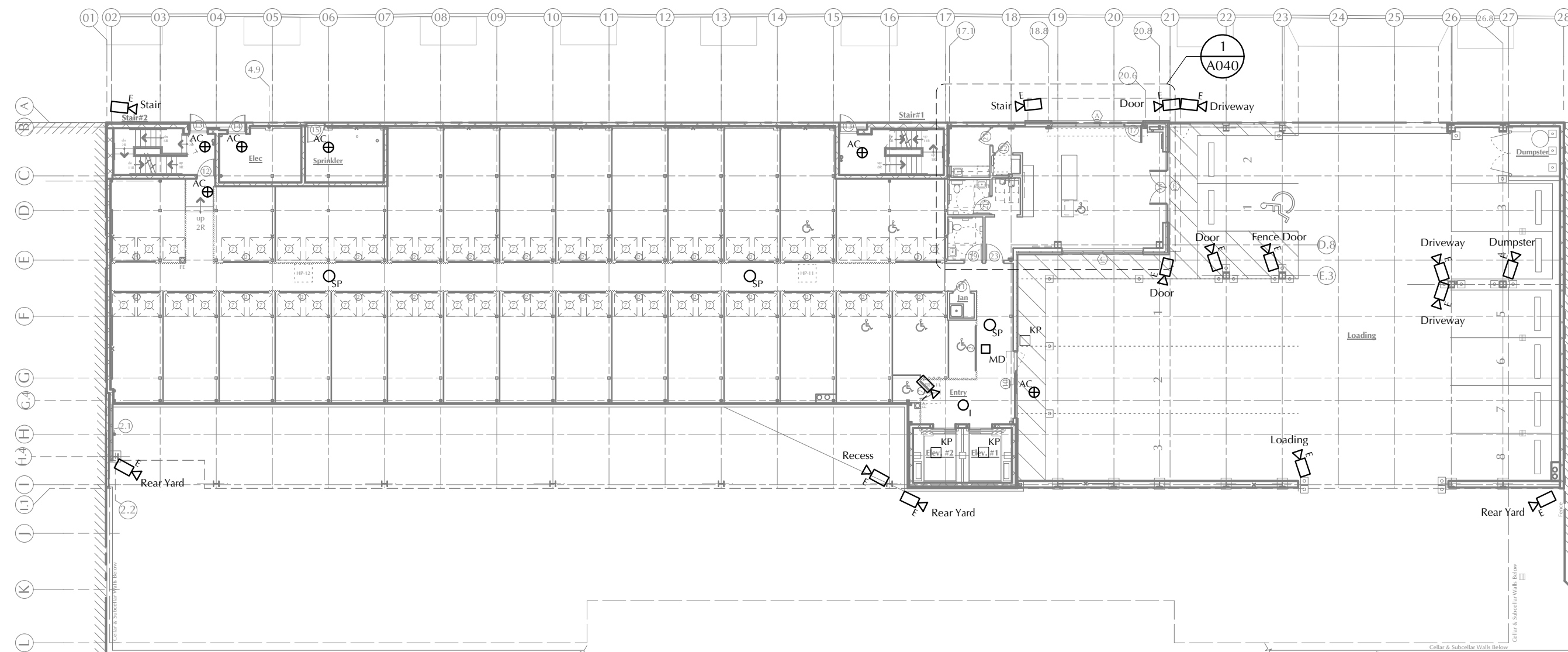
6 4th Floor Security Plan
Scale: 1" = 20'-0"



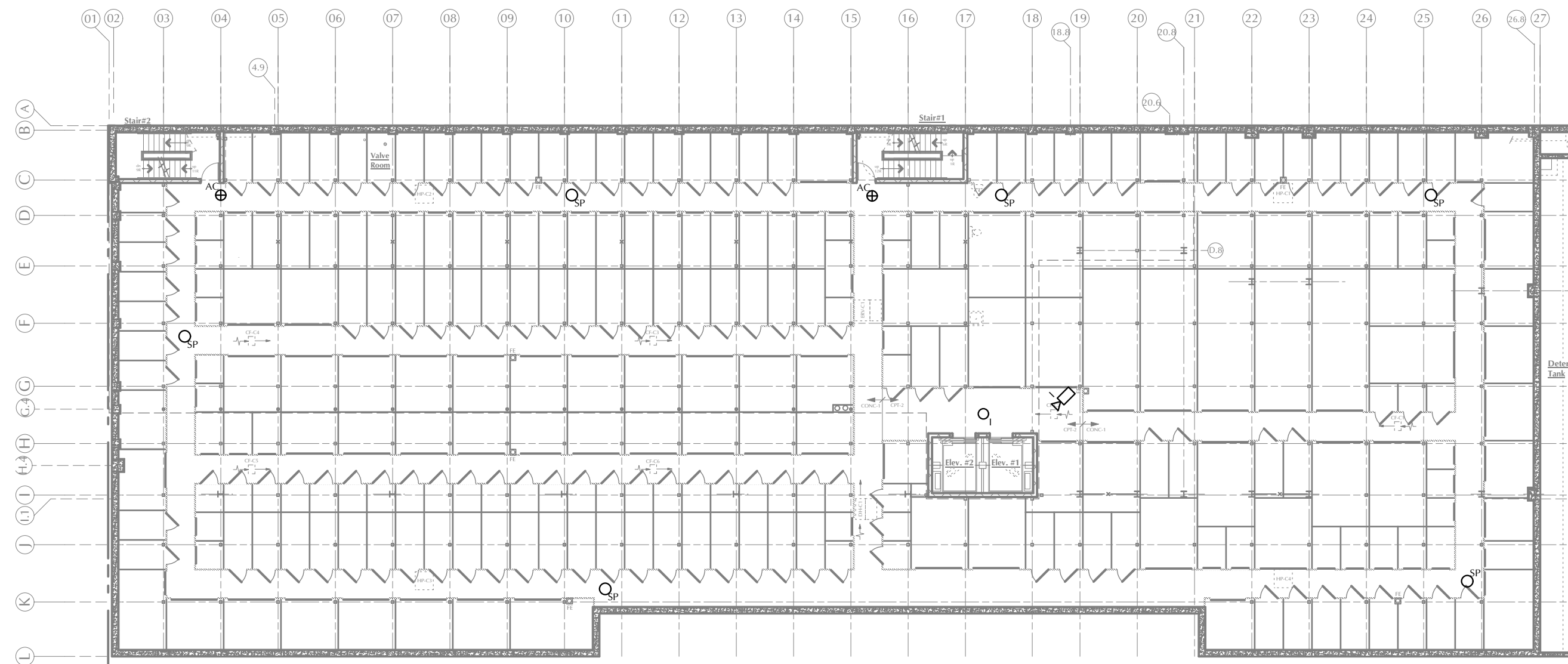
5 3rd Floor Security Plan
Scale: 1" = 20'-0"



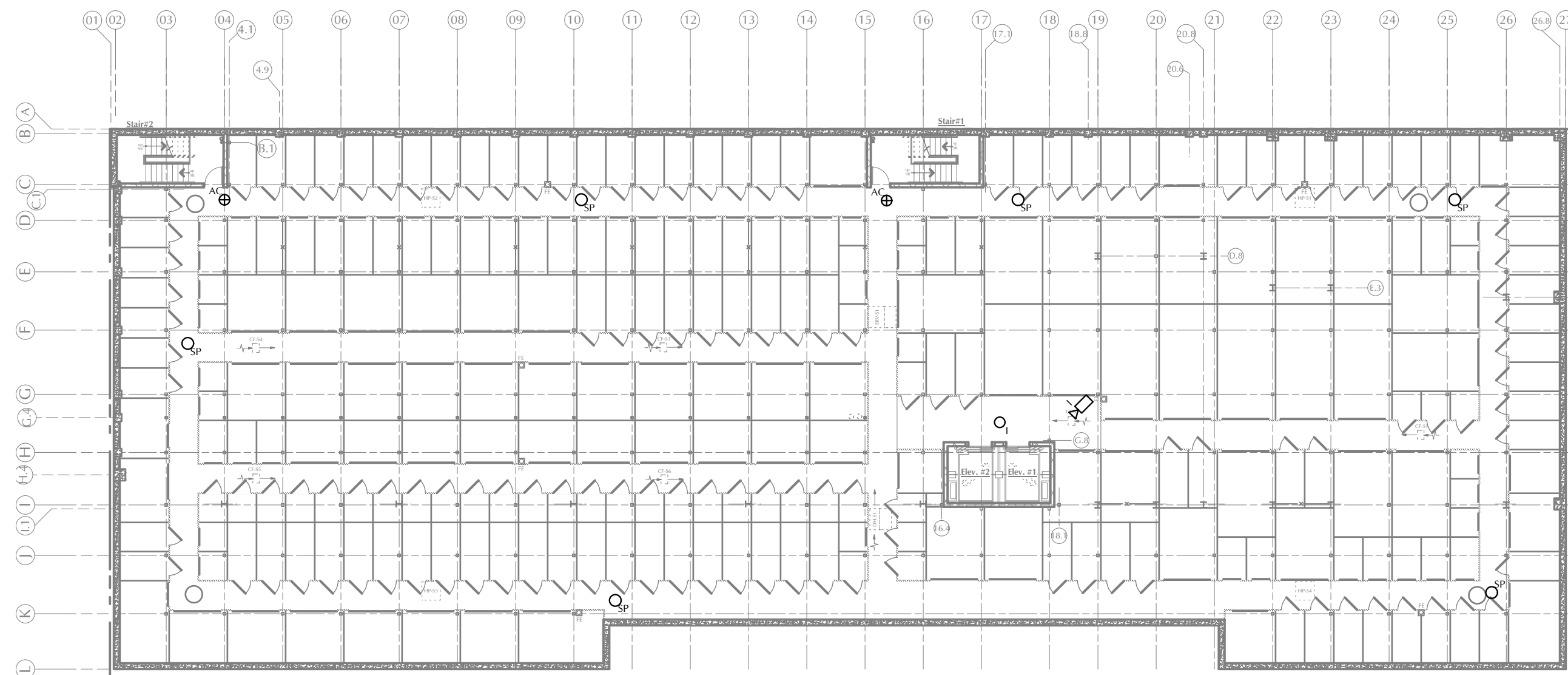
4 2nd Floor Security Plan
Scale: 1" = 20'-0"



3 1st Floor Security Plan
Scale: 1" = 20'-0"



2 Cellar Security Plan
Scale: 1" = 20'-0"



1 SubCellar Security Plan
Scale: 1" = 20'-0"

ISSUE DATE

1 Permit Set 3/23/20

REVISION DATE

1454 39th Street Self Storage

Safe N Lock
1454 39TH ST
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK

B³⁰W
BUTZ•WILBERN LTD

Planning | Architecture
Interiors | Property Visioning

800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010



SECURITY

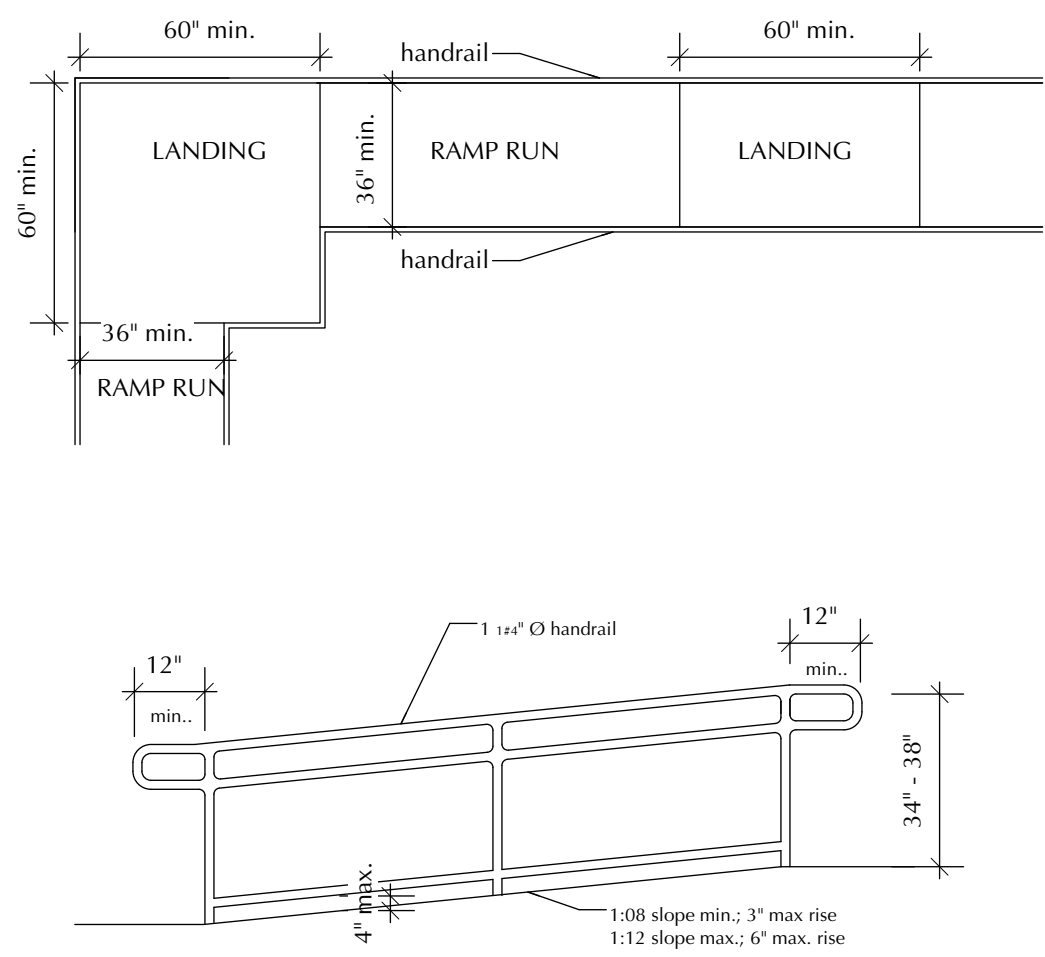
A-041.00

10 OF 48

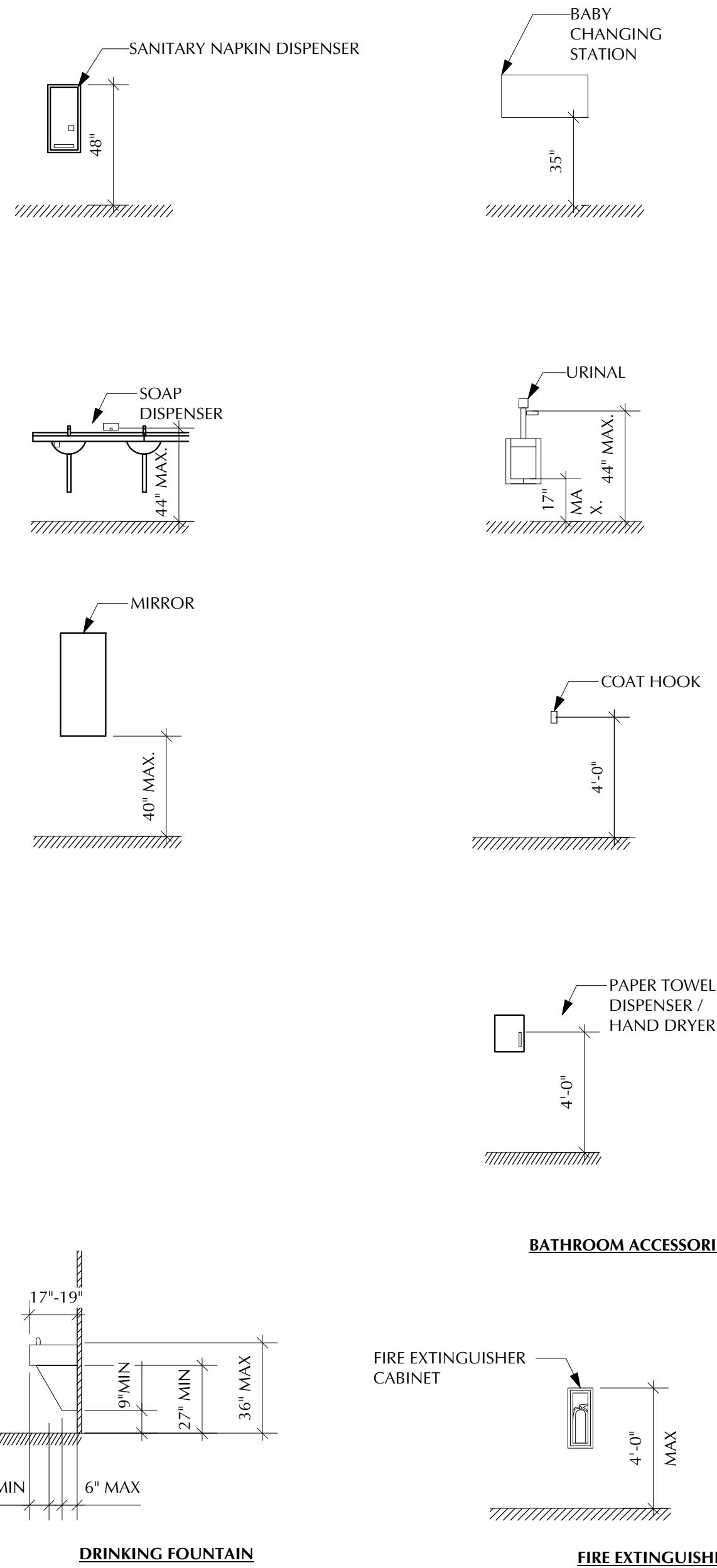
19010

RAMPS

ANSI A117.1 - 2009 405: RAMPS

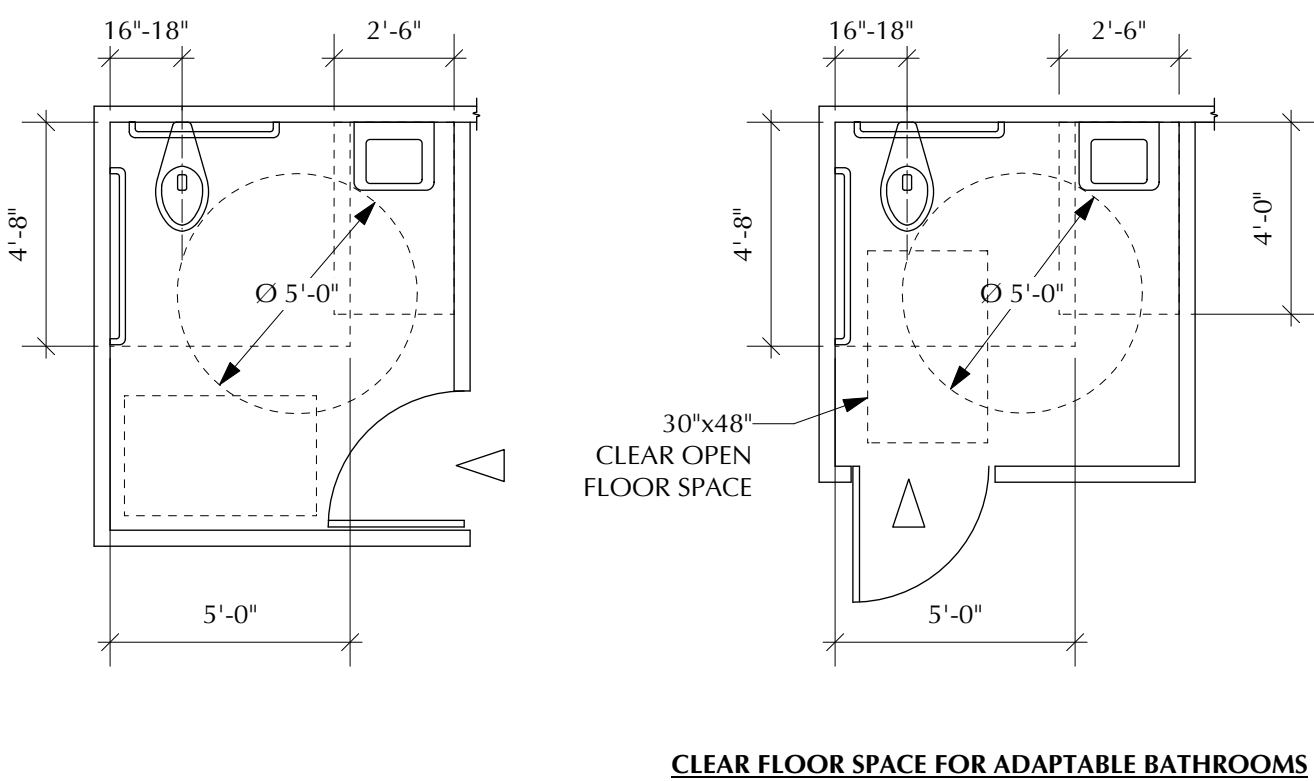


MISCELLANEOUS

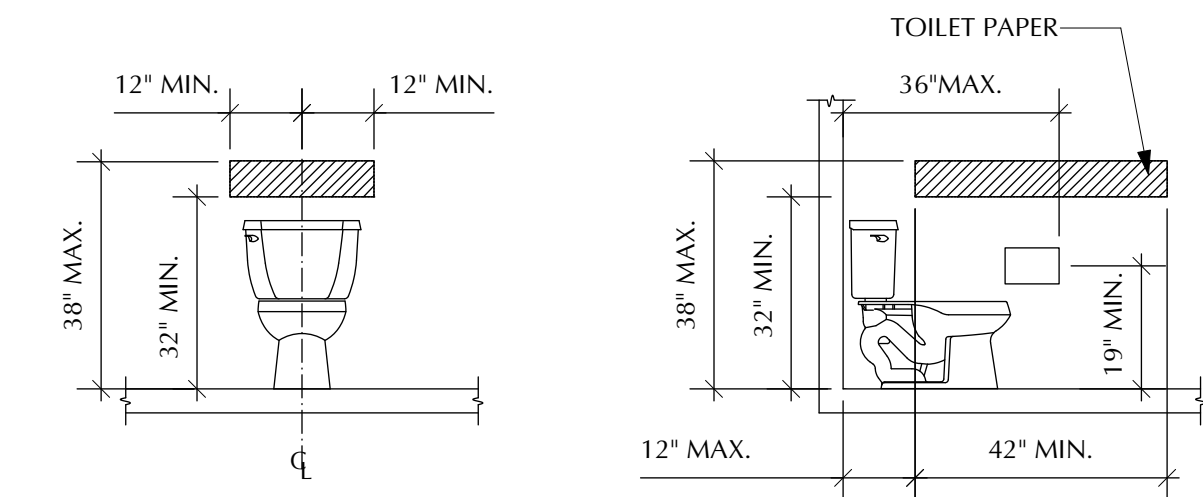


RESTROOMS

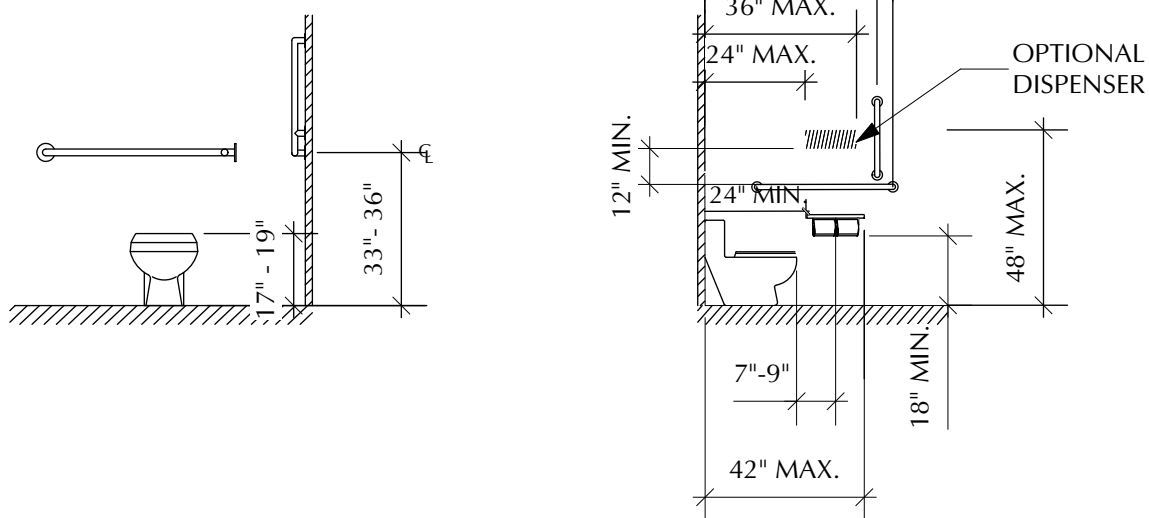
ANSI A117.1 - 2009 603: TOILET AND BATHING ROOMS



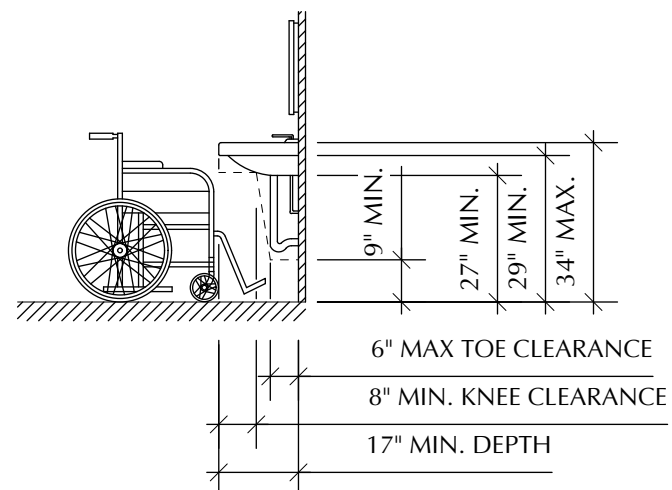
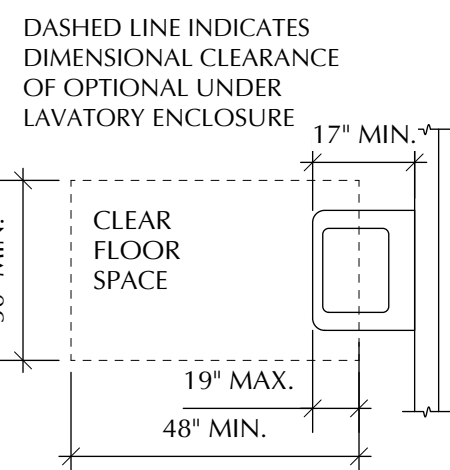
CLEAR FLOOR SPACE FOR ADAPTABLE BATHROOMS



REINFORCED AREAS FOR INSTALLATION OF GRAB BARS AT WATER CLOSETS IN ADAPTABLE BATHROOMS



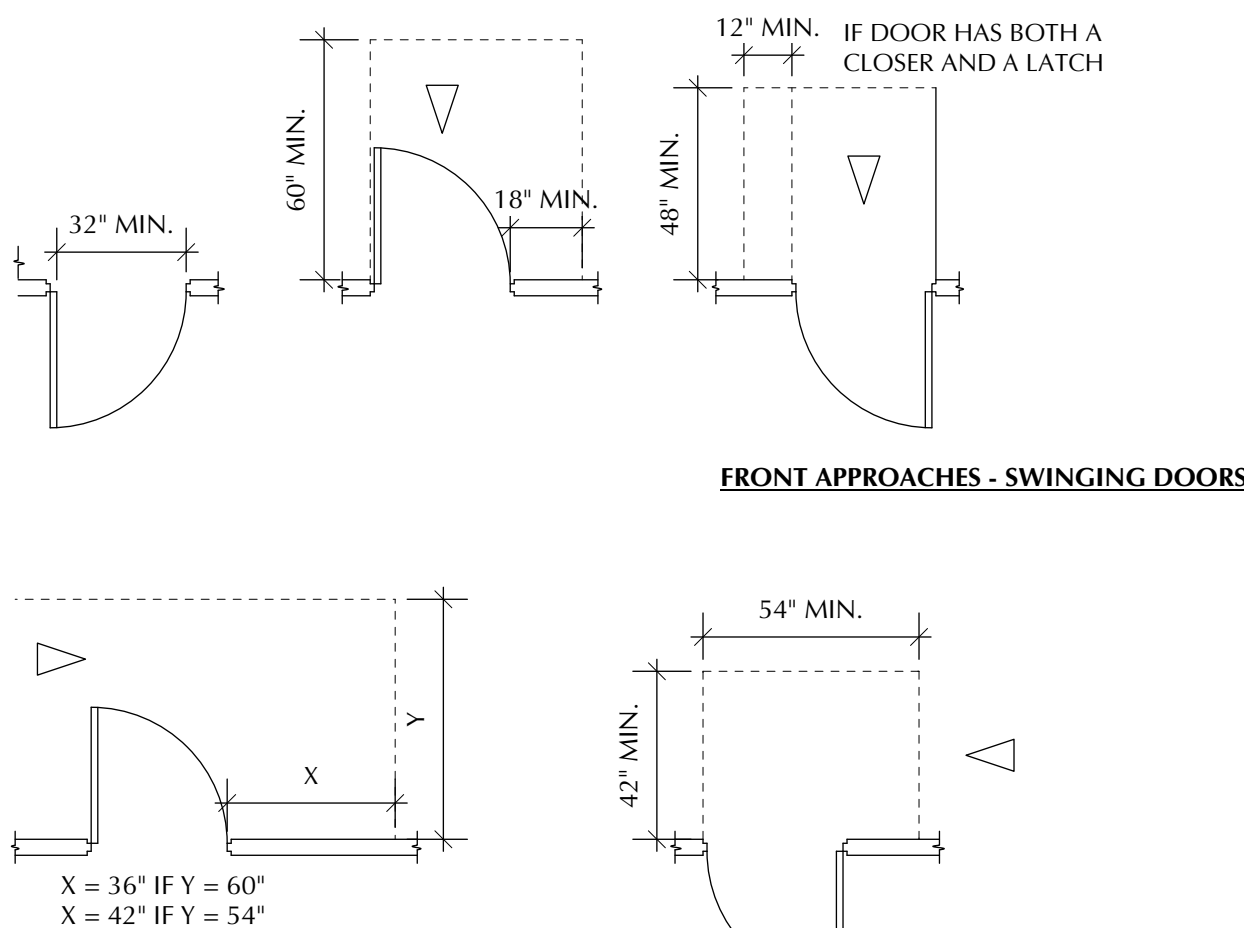
GRAB BARS AT WATER CLOSETS (SIDE WALL & FRONT)



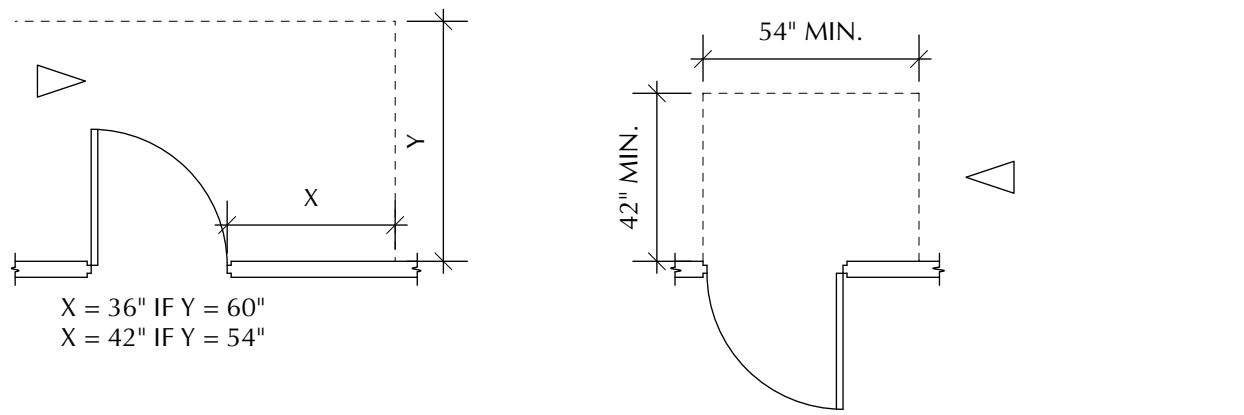
LAVATORY CLEARANCES

DOOR SWINGS AND CLEARANCES

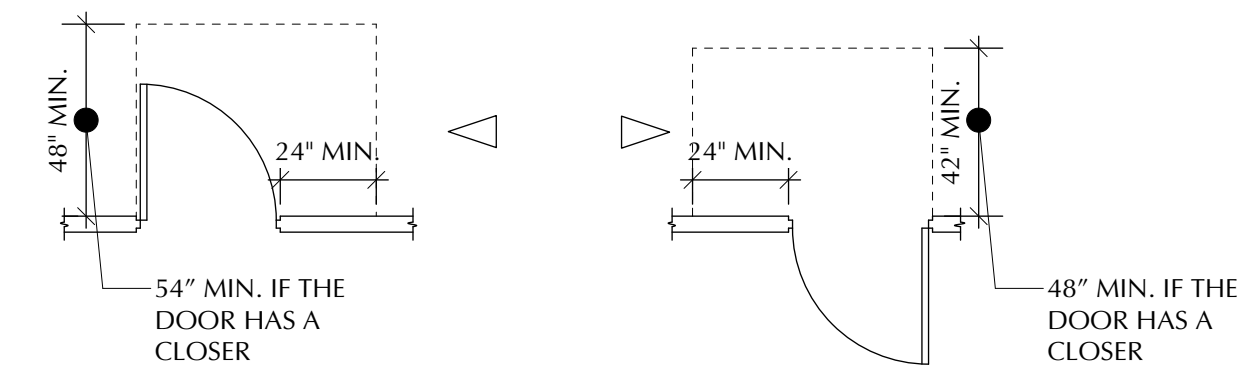
ANSI A117.1 - 2009 404: DOORS, DOORWAYS & GATES



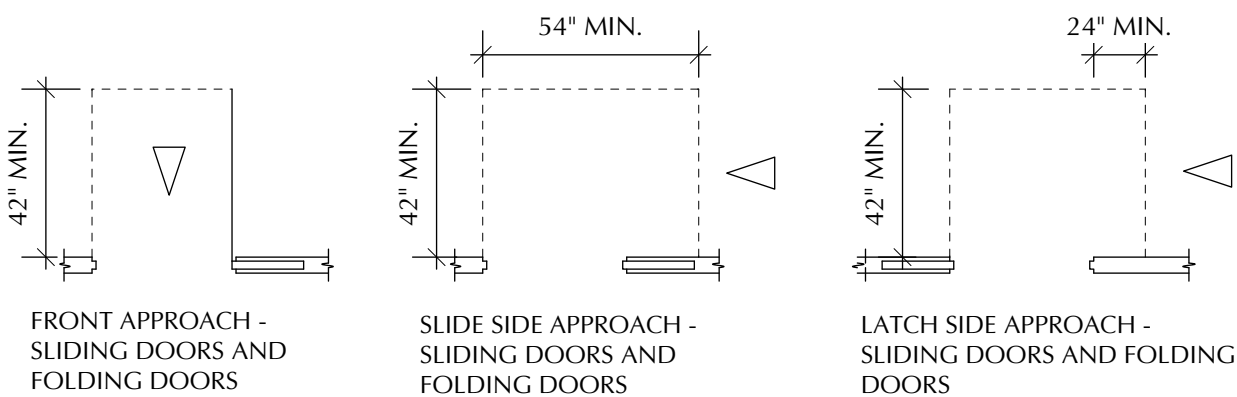
FRONT APPROACHES - SWINGING DOORS



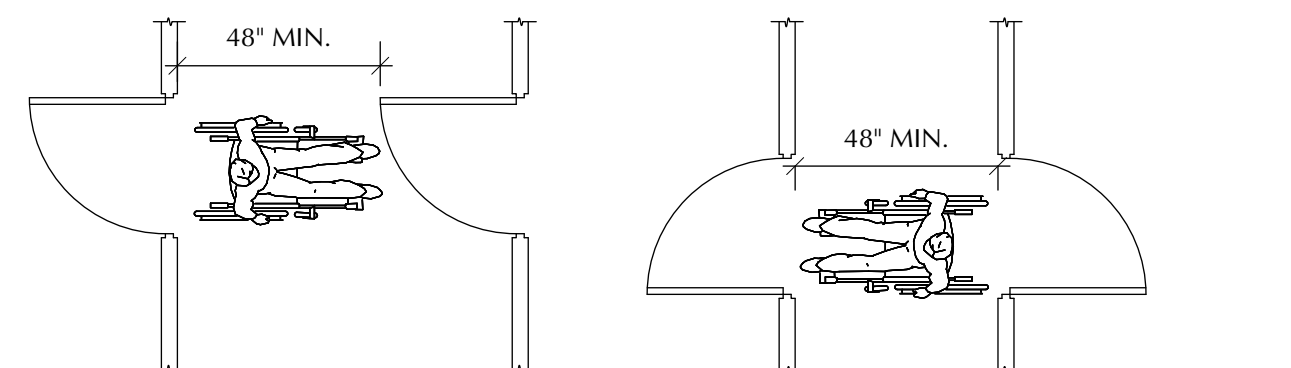
HINGE-SIDE APPROACHES - SWINGING DOORS



LATCH-SIDE APPROACHES - SWINGING DOORS

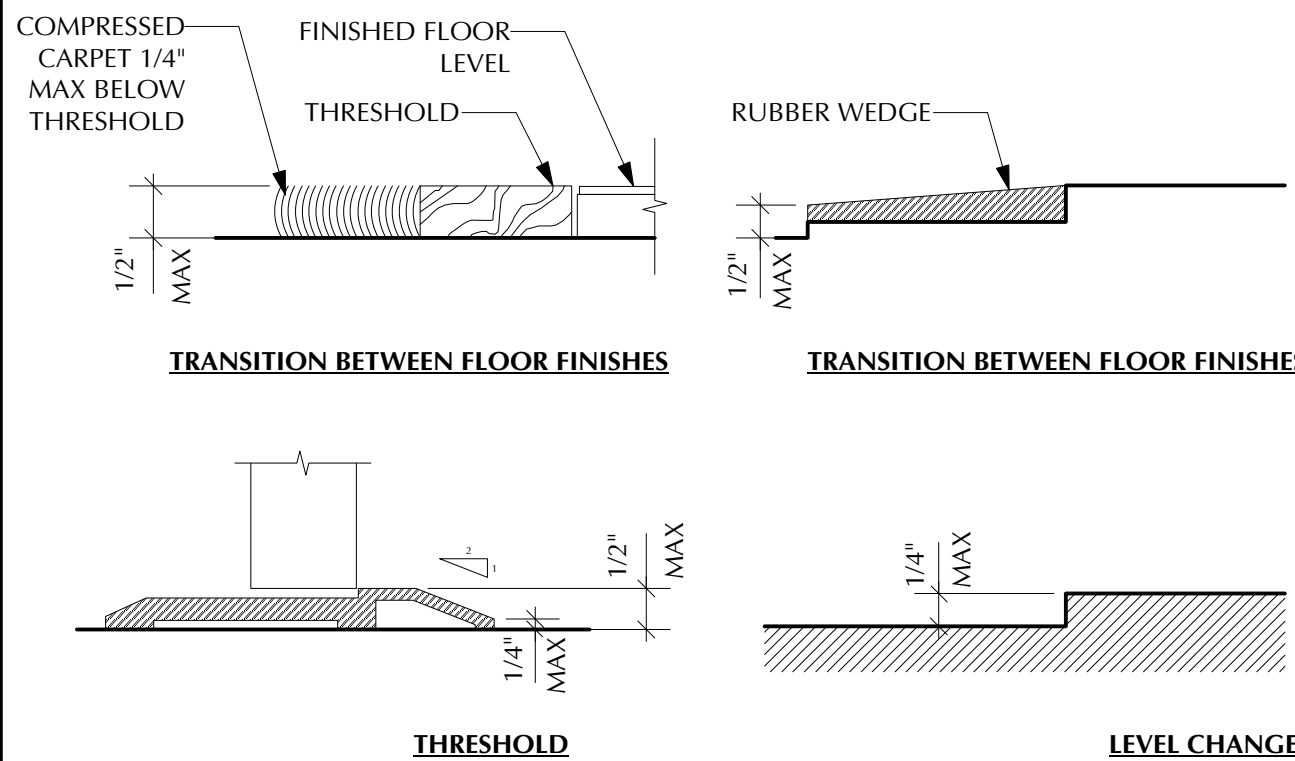


MANEUVERING CLEARANCES AT DOORS



TWO HINGED DOORS IN SERIES

ADA THRESHOLDS



TRANSITION BETWEEN FLOOR FINISHES

TRANSITION BETWEEN FLOOR FINISHES

THRESHOLD

LEVEL CHANGE

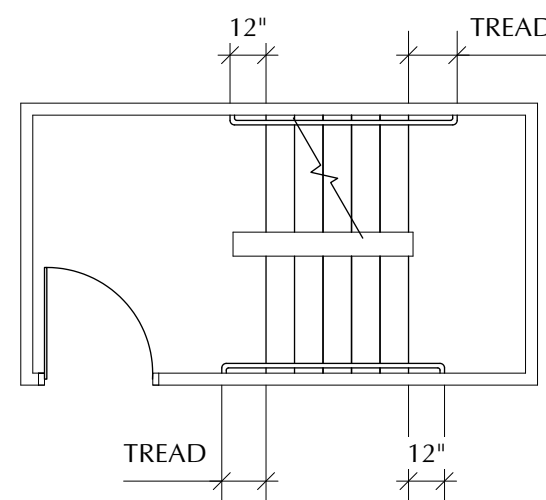
ADA NOTES

HANDICAP COMPLIANCE NOTES
AS PER ANSI A117.1 - 2010

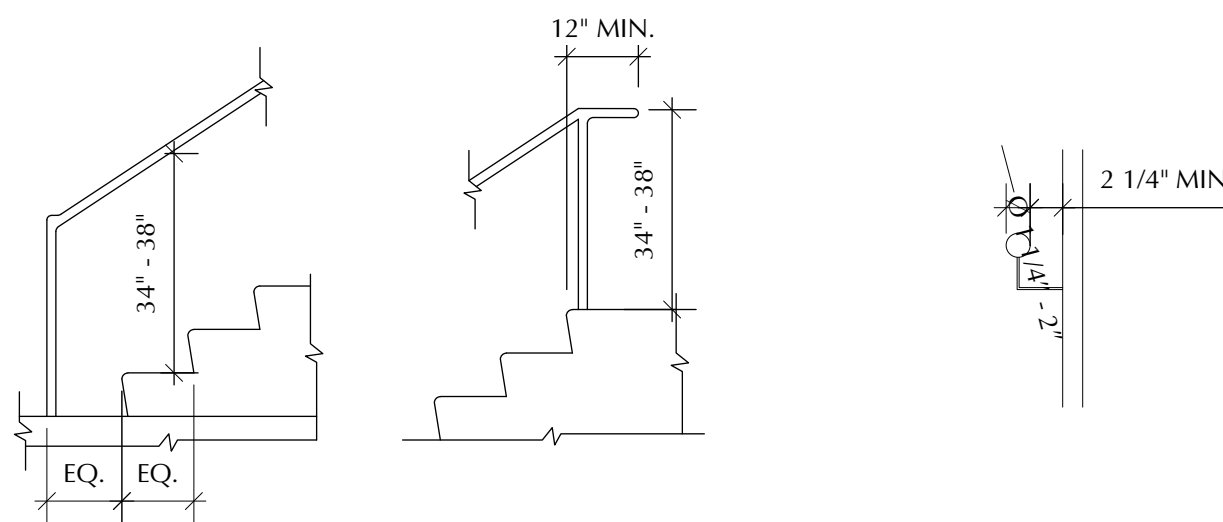
1. ALL HALLS, CORRIDORS, AISLES AND OTHER SPACES THAT ARE A PART OF AN ACCESSIBLE ROUTE SHALL COMPLY WITH ANSI A117.1-2010 SECTIONS 402 & 403.
2. GROUND AND FLOOR SURFACES ALONG ACCESSIBLE ROUTES AND IN ROOMS AND SPACES INCLUDING FLOORS, WALLS, AND STAIRS SHALL BE STABLE, FIRM AND SLIP RESISTANT SHALL COMPLY WITH ANSI A117.1-2010 SECTION 302.
3. ALL THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 1/2" SHALL COMPLY WITH ANSI A117.1-2010 SECTION 303.
4. ALL DOORS TO ACCESSIBLE SPACES SHALL COMPLY WITH ANSI A117.1-2010 SECTION 404.
5. ALL HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES AT ENTRANCE DOORS AND AT PUBLIC SPACES SHALL COMPLY WITH SHALL COMPLY WITH ANSI A117.1-2010 SECTION 404.
6. ALL ACCESSIBLE STORAGE FACILITIES SUCH AS CABINETS, SHELVES, CLOSETS AND DRAWERS SHALL COMPLY WITH ANSI A117.1-2010 SECTION 308.
7. ALL CONTROLS AND OPERATING MECHANISMS FOR LIGHT SWITCHES, DISPENSERS AND ALARMS SHALL BE ACCESSIBLE SHALL COMPLY WITH ANSI A117.1-2010 SECTION 404.
8. ALL EMERGENCY WARNING SYSTEMS SHALL COMPLY WITH ANSI A117.1-2010 CHAPTER 7.
9. ALL SIGNAGE THAT PROVIDES INFORMATION OR GENERAL CIRCULATION DIRECTION OR IDENTIFIES ROOMS OR SPACES SHALL COMPLY WITH ANSI A117.1-2010 SECTION 404. SYMBOLS OF ACCESSIBILITY SHALL BE PROVIDED AT PUBLIC TOILETS.
10. ALL TOILET ROOMS PROVIDED FOR COMMON USE SHALL COMPLY WITH THE REQUIREMENTS SET FORTH IN SHALL COMPLY WITH ANSI A117.1-2010 CHAPTER 6.
11. ALL GRAB BARS SHALL COMPLY WITH SHALL COMPLY WITH ANSI A117.1-2010 SECTION 609.
12. ALL SINKS & LAVATORIES SHALL COMPLY WITH ANSI A117.1-2010 SECTIONS 604 & 606.
13. ALL WATER CLOSETS SHALL COMPLY WITH ANSI A117.1-2010 SECTION 604.
14. ALL PRIMARY ACCESS SHALL COMPLY WITH ANSI A117.1-2010 SECTION 403.

STAIRWAYS

ANSI A117.1 - 2009 504: STAIRWAYS



ANSI A117.1 - 2009 505: HANDRAILS



ISSUE DATE
1 Permit Set 3/23/20

REVISION DATE

1454 39th Street Self Storage

Safe N Lock
1454 39TH ST
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK

B³⁰W
BUTZ•WILBERN LTD
Planning | Architecture
Interiors | Property Visioning
800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010



ADA SHEET

A-050.00

11 OF 48

19010

1454 39th Street Self Storage
Safe N Lock

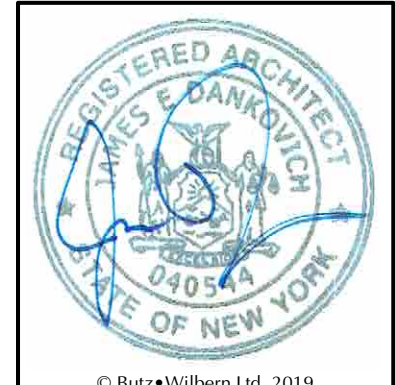
145
Safe N Lock
1454 39TH ST
BOROUGH OF



BUTZ•WILBERN LTD

Planning | Architecture
Interiors | Property Visioning

800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010



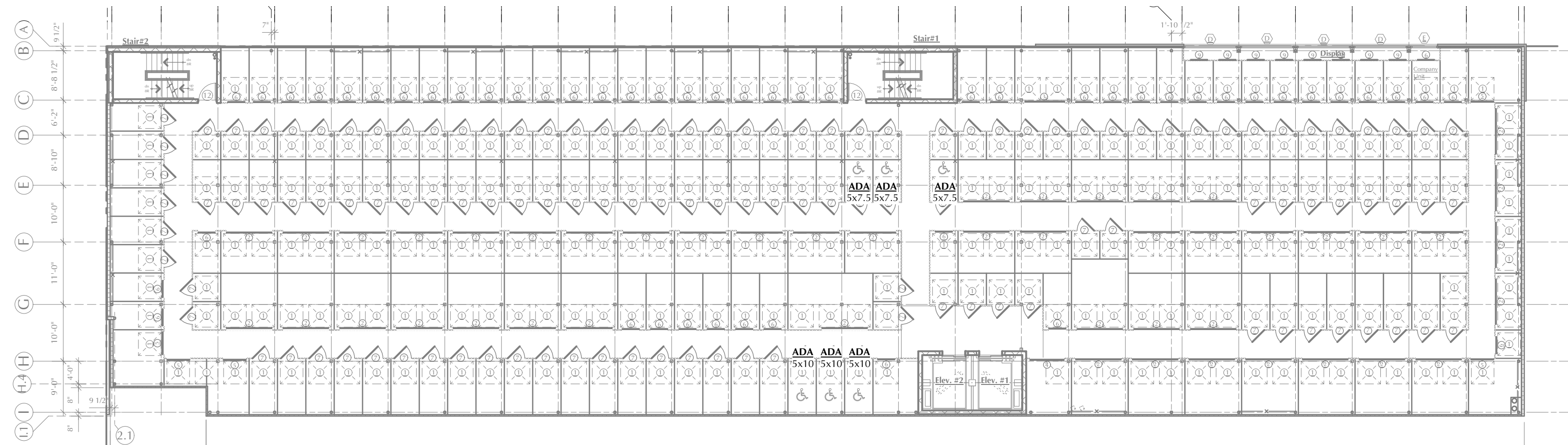
© Butz•Wilbern Ltd. 2019

ADA PLANS

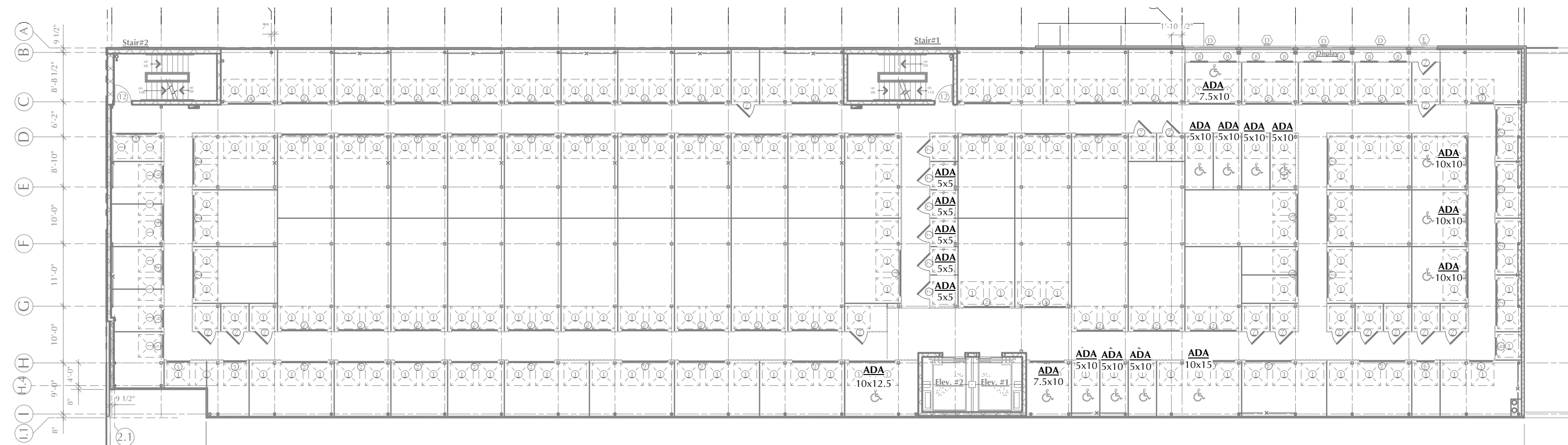
A-051.00

12 OF 48

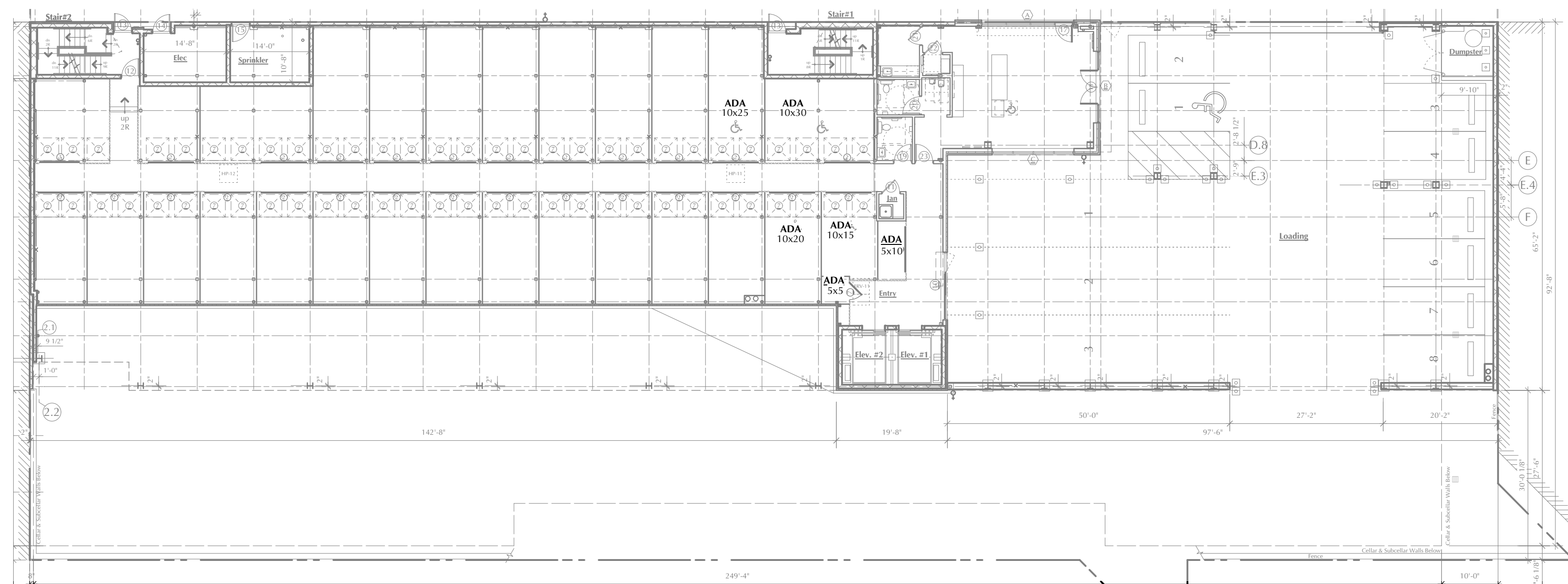
1901



3 3rd Floor ADA Plan
Scale: 1/16" = 1'-0"



2 2nd Floor ADA Plan
Scale: 1/16" = 1'-0"



1 First Floor ADA Plan
Scale: 1/16" = 1'-0"

	5X5	+22 SF	+33 SF	+44 SF	+66 SF	+88 SF	+110 SF	+132 SF	+176 SF	+220 SF	+264 SF	
LEVELS	Locker	5x5	5x7.5	5x10	7.5x10	10x10	10x12.5	10x15	10x20	10x25	10x30	TOTAL
	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	<i>z</i>	
Sub Cellar	0	50	10	129	12	29	8	16	5	0	0	259
Cellar	0	50	10	139	12	29	8	11	0	5	0	264
1st Flr	59	1	0	1	0	0	2	2	15	0	2	88
2nd Flr	215	19	2	16	10	17	1	37	12	0	1	330
3rd Flr	280	55	45	78	28	20	1	0	0	0	0	508
4th Flr	263	50	19	85	24	17	1	0	0	0	0	489
TOTAL	837	255	106	448	86	132	12	60	23	5	2	1938
AREA	20.25	5.875	3.975	22.400	6.450	11.200	2.250	5.500	6.400	3.250	900	93.325

TYPICAL ACCESSIBILITY NOTES:

- Provide 2-way communication system per NYCBC 1007.8. Also see Security plan layout on A-040s
- Provide directional signage at elevator landings per NYCBC 1007.10
- All ADA storage doors to have:
 - Accessibility sign with Braille
 - Pulls per door manufacturer per ADA heights and sizes
 - Door must be tensioned at 5 lbs.
- Signage at Accessible parking spaces will be provided, See Civil for locations.

NYCBC table 1108.3 Accessible Self-Service Storage Facilities	
TOTAL SPACES IN FACILITY	MINIMUM NUMBER OF REQUIRED ACCESSIBLE SPACES
1 to 200	5%, but not less than 1
Over 200	10, plus 2% of total number of units over 200

PER 1108.3 MINIMUM REQUIRED ACCESSIBLE UNITS = 10 PLUS 2% OF THE TOTAL NUMBER OF UNITS OVER 200

TOTAL 1,121 STORAGE UNITS EXCLUDING UPPER LOCKERS

$$10 + (1,121 - 200)0.02 = 28.4 \text{ rounded up to } = 28 \text{ UNITS}$$

TOTAL 28 ADA UNITS REQUIRED

$$5 \times 5 = 28 (235 / 1.121) = 6 \text{ UNITS}$$
$$5 \times 7.5 = 28 \text{ (106 / 1,121) = 3 UNITS}$$
$$5 \times 10 = 28 (448 / 1,121) = 11 \text{ UNIT}$$
$$7.5 \times 10 = 28 \text{ (86 / 1.121)} = 2 \text{ UNITS}$$

10X10 = 28 (112 /1,121) = 3 UNITS

$$10 \times 12.5 = 28 \text{ (18 / 1,121)} = 1 \text{ UNIT}$$

10X15 = 28 (68 /1,121)= 2 UNITS

$$10 \times 20 = 28 \text{ (32 / 1,121)} = 1 \text{ UNIT}$$
$$10 \times 25 = 28 (13 / 1.121) = 1 \text{ UNIT}$$
$$10 \times 30 = 28 (3/1, 121) = 1 \text{ UNIT}$$

TOTAL = 31 ADA UNITS PROVIDED

TOTAL = 31 ADA UNITS PROVIDED

ACCESSIBLE NOTE:

All floors are access controlled such that only the people authorized for that floor are on those floors. We have evenly distributed the required accessible units on 1st, 2nd & 3rd floors only. There will be no accessible storage units located on SubCellar & Cellar & 4th Floors.

1454 39th Street Self Storage

Safe N Lock
1454 39TH ST



BUTZ•WILBERN LTD

Planning | Architecture
Interiors | Property Visioning

800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010

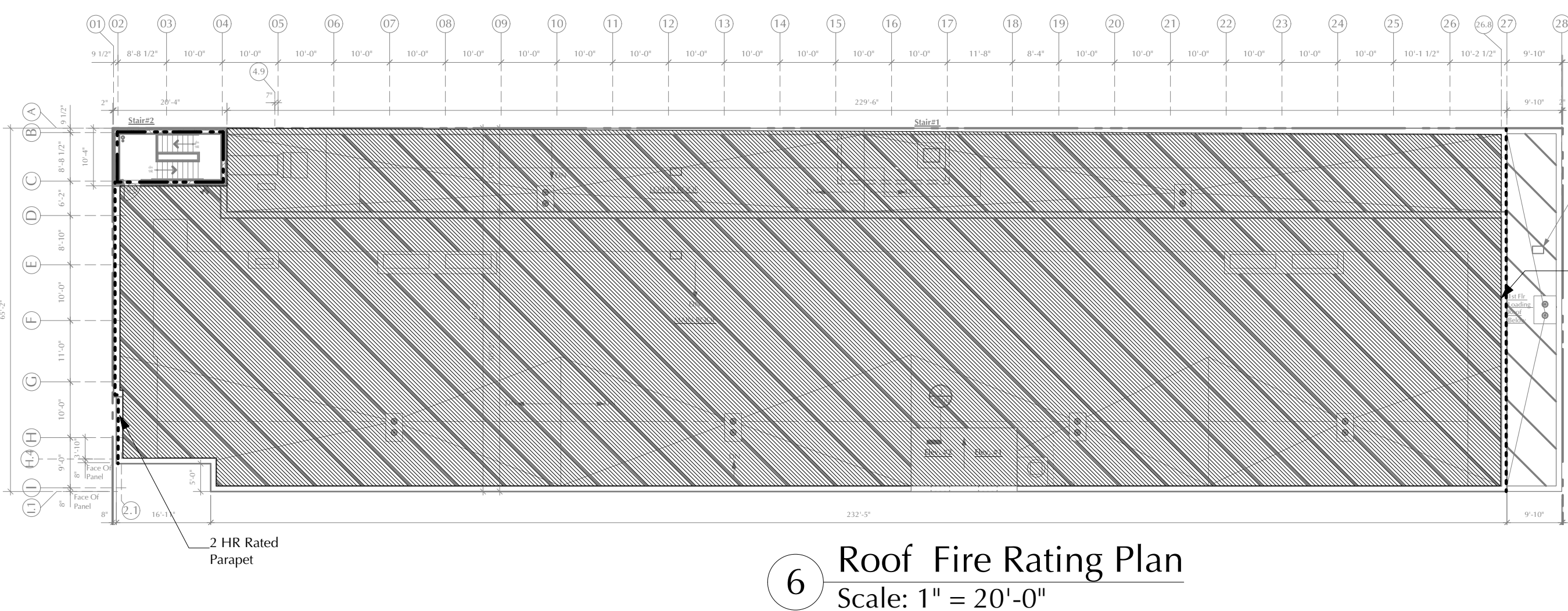
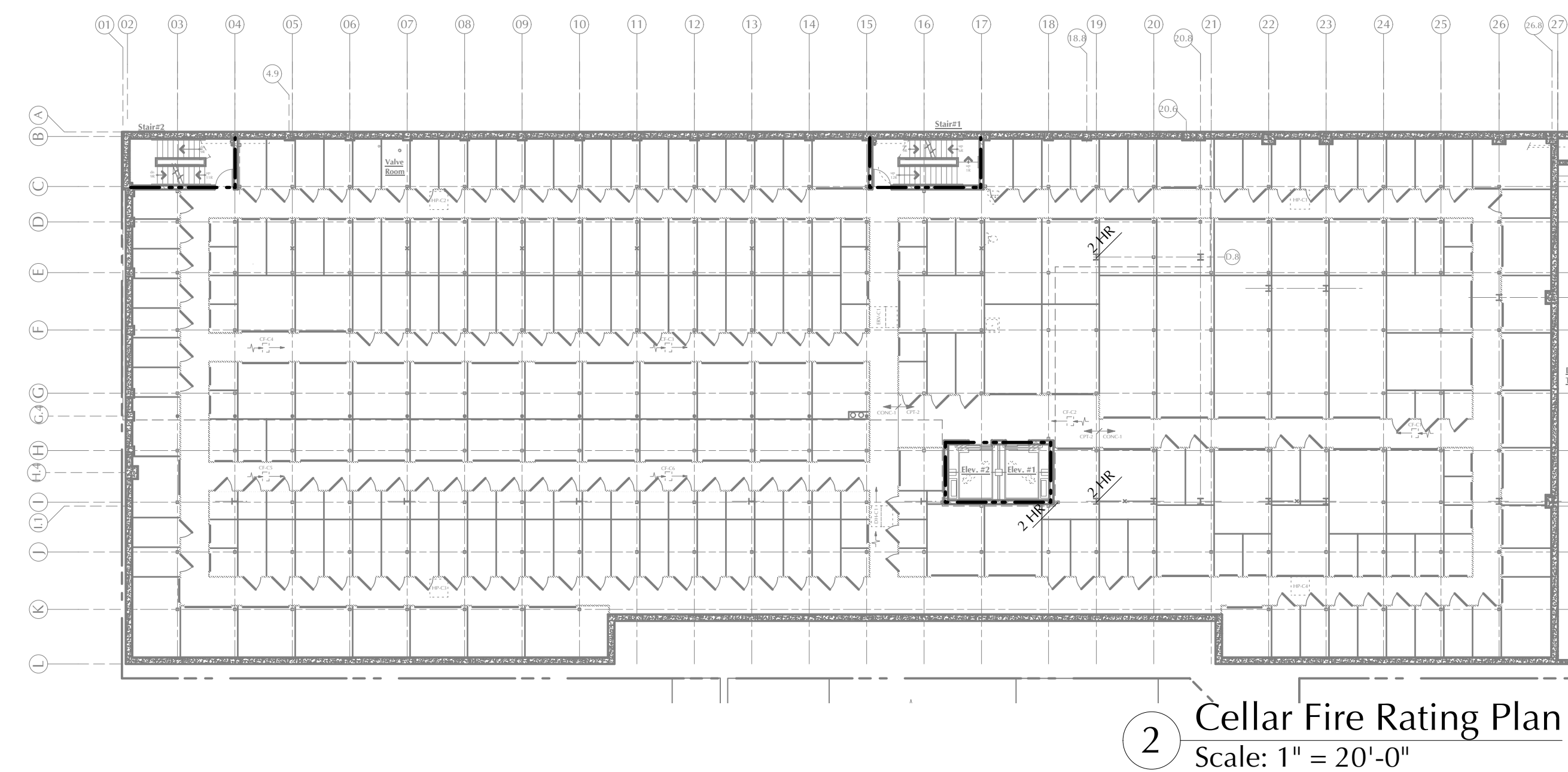
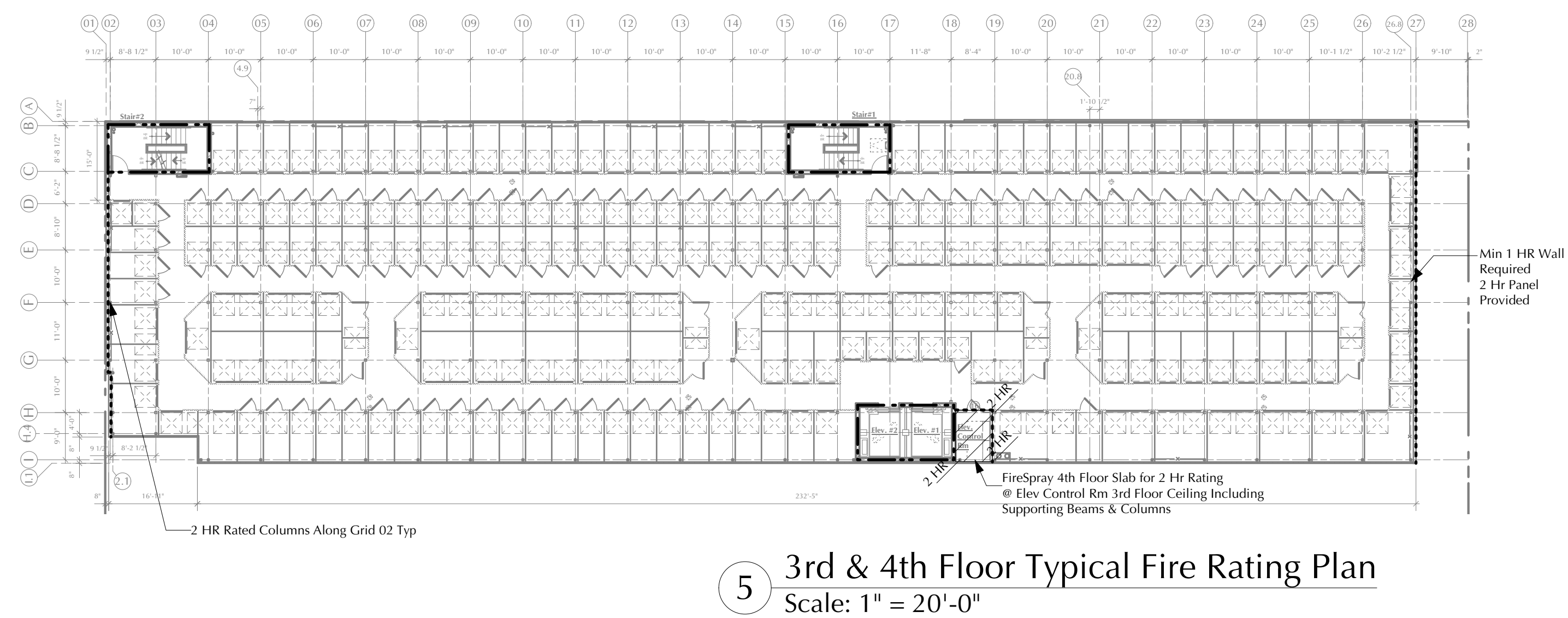
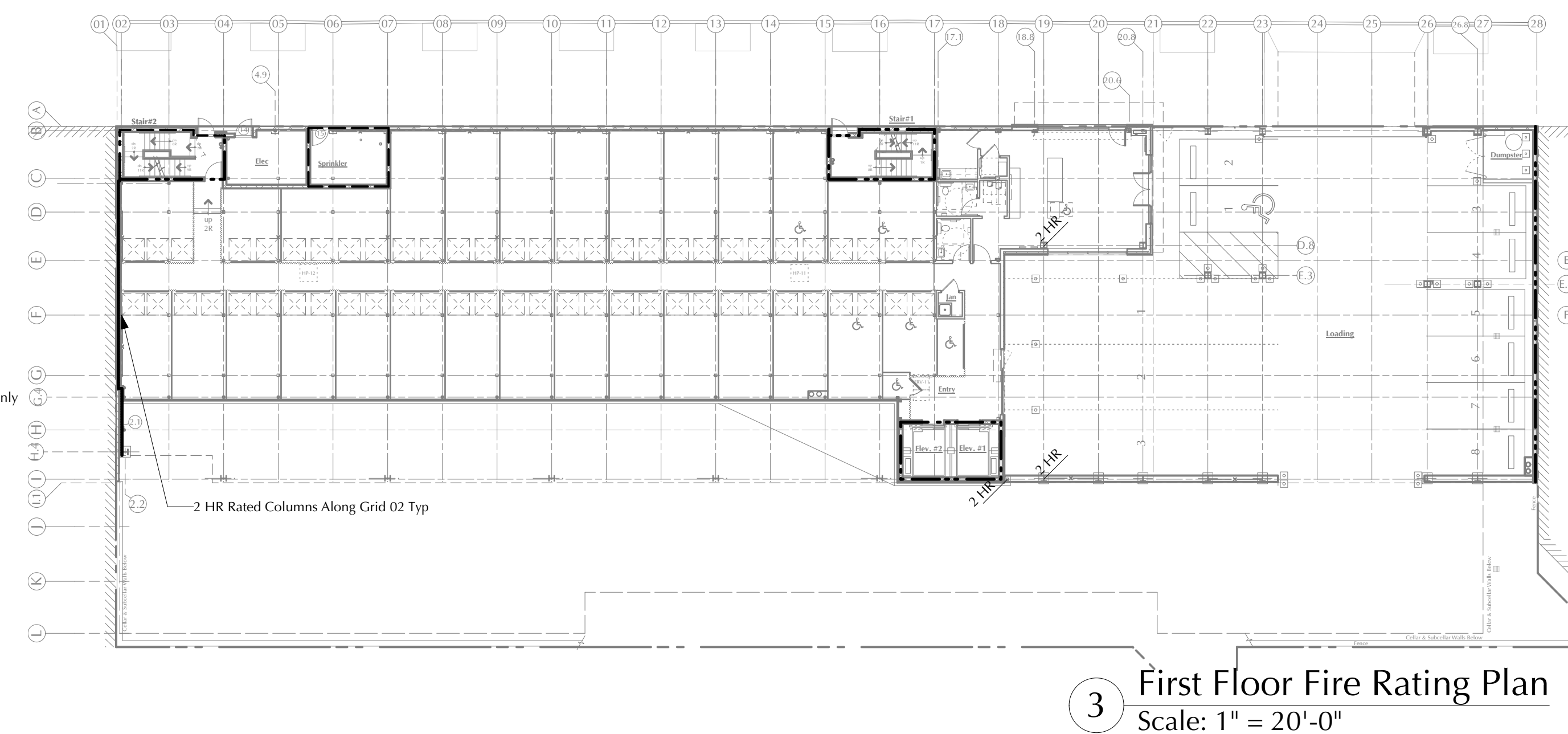
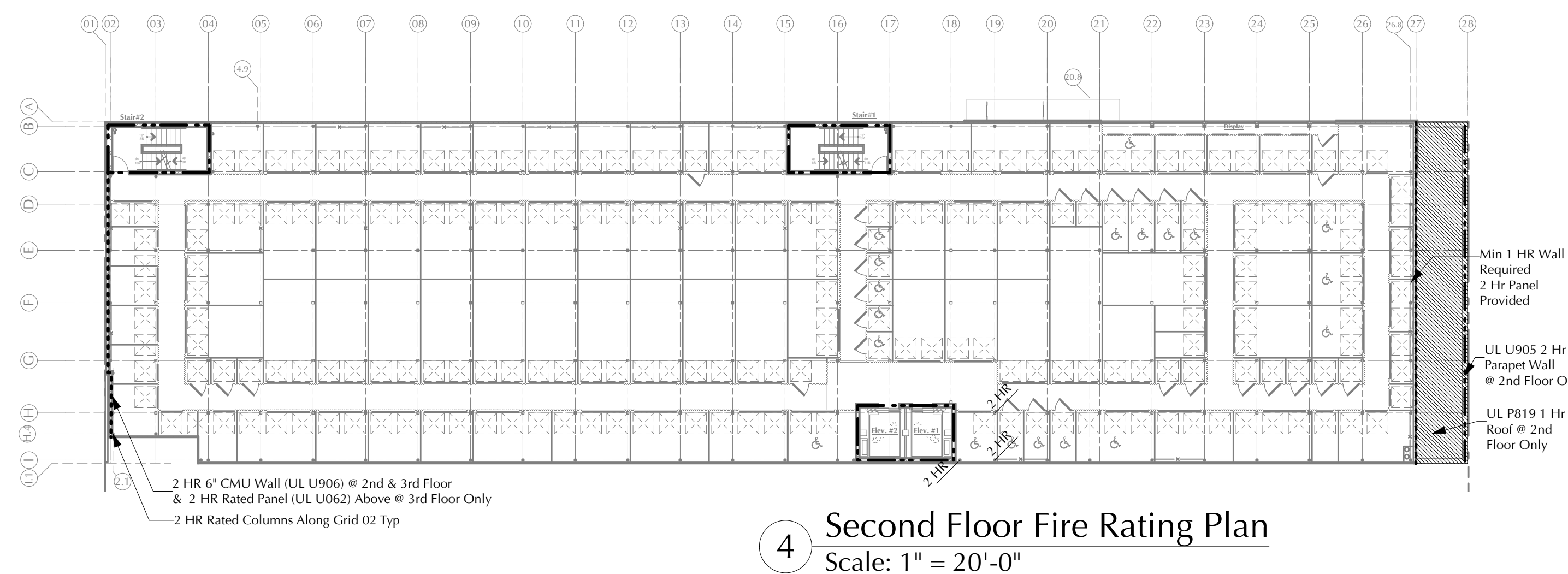


© Butz•Wilbern Ltd. 2019

FIRE RATING PLANS

A-060.00

13 OF 48



UL RATING LEGEND:

NOTE:

- ALL COLUMNS ALONG GRID 02 @ 2 HR RATED PROPERTY LINE WALLS TO BE 2HR RATED (UL#X790)
- ALL COLUMNS TO BE 1HR RATED (UL#X790) UNLESS OTHERWISE NOTED ----- UL#
- COLUMNS EXPOSED TO WEATHER TO BE 1HR RATED (UL#X649) TYP. ----- UL#
- ALL BEAMS TO BE 1 HR RATED (UL# D902) UNLESS OTHERWISE NOTED ----- UL#

 UL# P819: 1 HR RATED ROOF CONSTRUCTION

UL# D902: 1 HR RATED FLOOR CONSTRUCTION

-----UL# U905: MIN. 1 HR RATED MASONRY WALL

UL# U905: 2 HR RATED MASONRY WALL

UL# U906: 2 HR RATED 6" MASONRY WALL

————— UL# U419: 2 HR RATED METAL STUD WALL

..... UL# U062: 2 HR RATED IMP EXTERIOR WALL OR PARAPET

NOTE: X-BRACING IS NOTE TO BE FIRESPRAYED AS IT IS NOT ESSENTIAL TO THE VERTICAL STABILITY OF THE PRIMARY STRUCTURAL FRAME UNDERGRAVITY LOADING PER DEFINITIONS IN § 202.

CL LISTING U905

BXUV - Fire Resistance Ratings - ANSI/UL 263

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design No. U905

March 11, 2016

Bearing Wall Rating – 2 HR.

Nonbearing Wall Rating – 2 HR

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used – See Guide **BXUV** or **BXUV7**

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

The diagram shows a horizontal cross-section of a wall assembly. From left to right, it consists of:

- A vertical section of concrete blocks (labeled 1) with arrows pointing to them from below.
- A layer of mortar (labeled 2) between the first set of blocks and the second set.
- A second set of concrete blocks (labeled 1).
- A layer of loose masonry fill (labeled 4) between the two sets of blocks.
- A third set of concrete blocks (labeled 1).
- A layer of foamed plastic (labeled 5) attached to the outer face of the third set of blocks.

To the right of the wall assembly is a dimension line indicating a thickness of 7-5/8" MIN. Above the wall, there are dashed lines representing framing members and arrows indicating air flow or vapor movement.

- Concrete Blocks*** – Various designs. Classification D-2 (2 hr).
- Mortar** – Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.
- Portland Cement Stucco or Gypsum Plaster** – Add 1/2 hr to classification if used. Where combustible members are framed in wall, plaster or stucco must be applied on the face opposite framing to achieve a max. Classification of 1-1/2 hr. Attached to concrete blocks (Item 1).
- Loose Masonry Fill** – If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water repellent vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 2 hr to classification.
- Foamed Plastic*** – (Optional-Not Shown) – 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).

ATLAS ROOFING CORP – "EnergyShield Pro Wall Insulation" and "EnergyShield Pro 2 Wall Insulation"

CARLISLE COATINGS & WATERPROOFING INC – Type R2+ Sheath

FIRSTONE BUILDING PRODUCTS CO L L C – "Enverme™ CI Foil Exterior Wall Insulation" and "Enverme™ CI Glass Exterior Wall Insulation"

HUNTER PANELS – Types Xci-Class A, Xci 286

RMAX OPERATING L L C – "TSX-8500", "TSX-8510", "Thermasheath-XP", "ECOMAXci", "Thermasheath-3", "Durasheath-3"

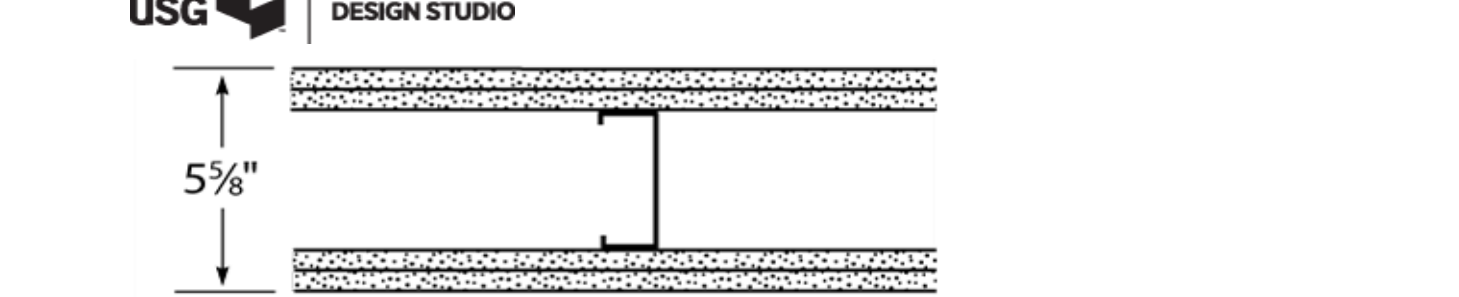
THE DOW CHEMICAL CO – Types Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax iH Insulation, Thermax Plus Liner Panel, Thermax Heavy Duty Plus (HDP) and TUFF-R™ ci Insulation

SA. Building Units – As an alternate to Items 5, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in.

RMAX OPERATING L L C – "Thermasheath-SI", "ECOBASEci", "ThermaBase-CI"

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

www.hsc.org.uk



Interior Partitions -Steel Stud (Non-loadbearing)	
Fire Rating	2 hour

STC	50
Sound Test	<u>USG-840817</u> 
System Thickness	6-1/8"

Gypsum Board - Two layers of 5/8 in. thick gypsum board applied vertically or

- USG Sheetrock® Brand Firecode® Core Gypsum Panels - 5/8"

- Product: 362S125-18
-
- Limiting Heights Range: undefined - undefined (in.)
-

Gypsum Board - Two layers of 5/8 in. thick gypsum board applied vertically or

- USG Sheetrock® Brand Firecode® Core Gypsum Panels - 5/8"

- For more information, visit [U419](#).

UL# P819 - 1 HR. RATED ROOF

Design No. P819

March 21, 2016

Restrained Assembly Rating — 1, 1-1/2 or 2 Hr. (See Items 3, 9 and 13)

Unrestrained Assembly Rating — 1, 1-1/2 or 2 Hr. (See Items 3, 9 and 13)

Unrestrained Beam Rating — 1, 1-1/2 or 2 Hr. (See Items 9 and 13)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

1. Beam — W6x16 min size, or Steel Joist min size (See Item 9).

2. Roof Covering — Consisting of hot mopped or cold application bituminous materials compatible with the insulation(s) described herein which provide Class A, B or C coverings. See Roofing Materials and Systems Directory-Roof Covering Materials (TSVT).

2A. In lieu of Item 2, roof covering consisting of single-ply Roofing Membrane* — that is either ballasted, adhered or mechanically attached as permitted under the respective manufacturer's Classification. See Fire Resistance

UL LISTING P819 CONTINUED

38. Building Units* — (Not Shown) — As an alternate to Item 3, polyisocyanurate foamed plastic insulation boards, nom 48 by 96 in., faced on the top surface with oriented strand board or plywood. Min thickness of the polyisocyanurate core is as is stated for Item 3, Roof Insulation. No limit on max overall thickness. Boards to be installed with end joints staggered a min of 6 in. in adjacent rows.

ATLAS ROOFING CORP — ACFoam Nail Base Insulation, Vented-R, ACFoam CrossVent, ACFoam III Nail Base Insulation, ACFoam III CrossVent

FIRESTONE BUILDING PRODUCTS CO L L C — Haigland.

GAF — EnergyGuard RH Polyiso Insulation, EnergyGuard RH Tapered Polyiso Insulation.

HUNTER PANELS — H Shield.

JOHNS MANVILLE — Nailboard.

SOPREMA INC — Sopra-ISO CV s.

3C. Building Units* — As an alternate to Item 3, polyisocyanurate foamed plastic insulation boards faced on the underside with wood fiber board. Min thickness of the polyisocyanurate core is as is stated for Item 3, Roof Insulation. No limit on max overall thickness. Boards to be installed with end joints staggered a min of 6 in. in adjacent rows.

FIRESTONE BUILDING PRODUCTS CO L L C — "ISO 95+ Wood Fiberboard Composite".

JOHNS MANVILLE — ENRGY 2 Plus.

3D. Building Units* — (Not Shown) — As an alternate to Item 3, composite polyisocyanurate foamed plastic insulation board with an adhered nailing surface, nom 48 by 96 in., may be used with the following limitations. These composite building units have ventilation slots internal to the panels. The thickness of the panel depends upon the thinnest portion of the polyisocyanurate insulation. The following dimensions apply to the polyisocyanurate insulation, min thickness is as stated in Item 3. There is no limit on the max insulation thickness.

JOHNS MANVILLE — Type ISO-VENT.

3E. Building Units* — As an alternate to Item 3, polyisocyanurate foamed plastic insulation boards, nom 48 by 48 or 96 in., faced on the top surface with gypsum board. Min thickness of the polyisocyanurate core is as is stated for Item 3, Roof Insulation. No limit on overall thickness. Boards to be installed with end joints staggered a min of 6 in. in adjacent rows.

JOHNS MANVILLE — ENRGY 2 gypsum Composite.

3F. Building Units* — As an alternate to Item 3, polyisocyanurate foamed plastic insulation boards, nom 48 by 48 by 96 in., faced on the top surface with oriented strand board. Min thickness of the polyisocyanurate core is as stated in Item 3, Roof Insulation. No limit on overall thickness. Boards to be installed with end joints staggered a min of 6 in. in adjacent rows.

3G. Foamed Plastic* — (Optional) — (Not Shown) — Maximum 1 in. thick polyisocyanurate foamed plastic insulation boards, nom 48 by 96 in. Boards may be applied as the top layer in addition to the specified minimum thickness of any roofing system described herein, as long as the roofing system states that there is no limit on maximum thickness. Joints offset in both directions from layer below.

FIRESTONE BUILDING PRODUCTS CO L L C — "ISOGARD HD".

3H. Foamed Plastic* — As an alternate to Item 3 — Polyurethane foamed plastic roof insulation. Formed by the simultaneous spraying of two liquid components applied over the gypsum board (Item 13) in accordance with the manufacturer's instructions. Minimum nominal thickness provided for Item 3, Table with no maximum thickness. When used, gypsum board (Item 13) required.

BASF CORP — Types FE 303 2.7, FE-348, FE348-2.5, FE348-2.7, FE348-2.8, FE348-3.0, ELASTOSPRAY 81255, ELASTOSPRAY 81275, ELASTOSPRAY 81285 or ELASTOSPRAY 81305.

BASF CORP — Elastospray 5100-20, Elastospray 5100-25, Elastospray 81302, Elastospray 81272, Elastospray Alpha System, Elastospray 81252.

4. Vapor Retarder-Sheathing Material* — (Optional) — (Not shown) — Vinyl film or paper scrim vapor barrier, applied to steel roof deck with adhesive (Item 5), asphalt (Item 6) or laid loosely, overlapped approximately 2 in. on adjacent sheets. See Sheathing Material (GHIZ) category for names of manufacturers.

5. Adhesive* — (Optional) — The vapor retarder or the first layer of roof insulation may be secured with adhesive to the steel crest surfaces. Also used to attach the first layer of insulation to vapor retarder and each additional layer of

111017ULSTG00101-01

of

5A. Adhesive* — (Optional) — (Bearing the UL Classification Marking for Roof Systems (TGFU)) — The vapor retarder, the gypsum wallboard or the first layer of roof insulation may be secured with adhesive to the steel crest surfaces. Also used to attach the vapor retarder to gypsum wallboard, the first layer of insulation to vapor retarder or gypsum

UL LISTING P819 CONTINUED									
Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Min Insulation Thkns In.	Wallboard (Item No. 13) Required	Thkns In.				
					Deck#	W6x16 Beam	10K1 Joist	12K3 Joist	10K1 Joist (1)
1	1	1	1	Yes	1/2	5/8	1-1/8	1-1/16	1-1/8
1	1	1	2	Yes	1/2	5/8	1-1/8	1-1/16	1-1/8
1	1	1	0	Yes	5/8	5/8	1-1/8	1-1/16	1-1/8
1	1	1	3	No	13/16	5/8	1-1/8	1-1/16	1-1/8
1	1	1	2	No	15/16	5/8	1-1/8	1-1/16	1-1/8
1	1	1	1	No	1-1/4	5/8	1-1/8	1-1/16	1-1/8
1	1	1	0	No	2-1/16	5/8	1-1/8	1-1/16	1-1/8
1-1/2	1	1	2	Yes	13/16	13/16	1-9/16	1-9/16	1-1/8
1-1/2	1	1	1	Yes	7/8	13/16	1-9/16	1-9/16	1-1/8
1-1/2	1	1	3	No	1-3/8	13/16	1-9/16	1-9/16	1-1/8
1-1/2	1	1	2	No	1-3/4	13/16	1-9/16	1-9/16	1-1/8
1-1/2	1-1/2	1-1/2	2	Yes	13/16	13/16	1-9/16	1-9/16	1-1/8
1-1/2	1-1/2	1-1/2	1	Yes	7/8	13/16	1-9/16	1-9/16	1-1/8
1-1/2	1-1/2	1-1/2	0	Yes	1	13/16	1-9/16	1-9/16	1-1/8
1-1/2	1-1/2	1-1/2	3	No	1-3/8	13/16	1-9/16	1-9/16	1-1/8
1-1/2	1-1/2	1-1/2	2	No	1-3/4	13/16	1-9/16	1-9/16	1-1/8
1-1/2	1-1/2	1-1/2	0	No	2-5/8	13/16	1-9/16	1-9/16	1-1/8
2	1	1	2	Yes	1-3/16	1	1-5/8	1-5/8	1-3/8
2	1	1	1	Yes	1-3/8	1	1-5/8	1-5/8	1-3/8
2	1	1	3	No	2-1/8	1	1-5/8	1-5/8	1-3/8
2	1	1	2	No	2-5/16	1	1-5/8	1-5/8	1-3/8
2	2	2	2	Yes	1-3/16	1	1-11/16	1-11/16	1-9/16
2	2	2	1	Yes	1-3/8	1	1-11/16	1-11/16	1-9/16
2	2	2	0	Yes	1-9/16	1	1-11/16	1-11/16	1-9/16
2	2	2	3	No	2-1/8	1	1-11/16	1-11/16	1-9/16
2	2	2	2	No	2-5/16	1	1-11/16	1-11/16	1-9/16
2	2	2	0	No	3-1/4	1	1-11/16	1-11/16	1-9/16

The required minimum thickness of Spray-Applied Fire Resistive Materials on the steel deck is increased by 1/16 in. for 1-1/2 hr Unrestrained Assembly Rating and 1/4 in. for 2 hr Unrestrained Assembly Rating when Item 5A is used.

1 = Thickness of 10K1 joists when spacing is 4 ft. or less OC.

NR = No Rating

--

9, 11

Planning | Architecture
Interiors | Property Visioning

800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010

ERED AR



STATE OF NEW YORK

© Butz•Wilbern Ltd. 2019

TABLE LISTING

14 OF 48

10010

UL LISTING D902 CONTINUED

* This thickness applies when optional Item 12 or 13 are used over 3-1/4 in. lightweight concrete topping.

BERLIN CO LTD — Type 400

GREENTECH THERMAL INSULATION PRODUCTS MFG CO L L C — Type 400

ISOLATEK INTERNATIONAL — Type 300TW, Type 400

NEWKEM PRODUCTS CORP — Type 400

6E. **Mastic and Intumescent Coatings*** — As an alternate to Items 6 through 6D. For use with fluted steel floor and form units only. Min. size W8x24 or W6x12 beams shall be primed with a phenolic modified alkyl primer, a metal alkyl primer, an acrylic primer or an epoxy primer at a nominal thickness of 2 mil. Coating spray or brush applied in accordance with the manufacturer's instructions at the min dry thickness as shown in the table below. The thickness shown below includes the primer thickness. Flutes above beam to be completely filled with minimum 6 pcf mineral wool insulation, or the top flange of the beam to be protected with the same thickness of coating as required on the beam.

Minimum Dry Thickness mils	Minimum Dry Thickness mm	Beam Size	Unrestrained Beam Rating Hr	Restrained Assembly Rating Hr
53	1.34	W8x24	1	2
95	2.41	W8x24	1-1/2	3
73	1.83	W6x12	1	2
123	3.10	W6x12	1-1/2	3

BERLIN CO LTD — Type WB 3. Investigated for Interior General Purpose. Type WB 4, Investigated for Interior General Purpose. Type WB4, Investigated for Exterior Use with top coat as described in Item 6F

GREENTECH THERMAL INSULATION PRODUCTS MFG CO L L C — Type SprayFilm-WB 3 and Type WB 3. Investigated for Interior General Purpose. Type SprayFilm-WB 4 and Type WB 4, Investigated for Interior General Purpose. Type SprayFilm-WB 4 and Type WB4, Investigated for Exterior Use with top coat as described in Item 6F

ISOLATEK INTERNATIONAL — Type SprayFilm-WB 3 and Type WB 3. Investigated for Interior General Purpose. Type SprayFilm-WB 4 and Type WB 4, Investigated for Interior General Purpose. Type SprayFilm-WB 4 and Type WB4, Investigated for Exterior Use with top coat as described in Item 6F

NEWKEM PRODUCTS CORP — Type WB 3. Investigated for Interior General Purpose. Type WB 4, Investigated for Interior General Purpose. Type WB4, Investigated for Exterior Use with top coat as described in Item 6F

6F. **Mastic and Intumescent Coatings*** — As an alternate to Items 6 through 6E. For use with normal weight concrete. Min. size W8x28 beams shall be primed with a phenolic modified alkyl primer, a metal alkyl primer, an acrylic primer or an epoxy primer at a nominal thickness of 2 mil. Coating spray or brush applied in accordance with the manufacturer's instructions at the min dry thickness as shown in the table below. The thickness shown below includes the primer thickness. The top surface of the top flange where fluted units are used must be protected with the coating material at the same min dry thickness at a min distance of 1 in. (.25 mm) inward from the flange tip on both sides of the beam. Mineral wool insulation optional above top surface of the beam.

Minimum Dry Thickness mils	Minimum Dry Thickness mm	Steel Floor Units	Unrestrained Beam Rating Hr	Restrained Assembly Rating Hr
103	2.62	Fluted or Cellular	1-1/2	2
179	4.55	Cellular	1-1/2	3
341	8.67	Cellular	2	3

BERLIN CO LTD — Type WB 3. Investigated for Interior General Purpose. Type WB 4, Investigated for Interior General Purpose. Type WB 4, Investigated for Exterior Use with top coat as described in Item 6G

GREENTECH THERMAL INSULATION PRODUCTS MFG CO L L C — Type SprayFilm-WB 3 and Type WB 3. Investigated for Interior General Purpose. Type SprayFilm-WB 4 and Type WB 4, Investigated for Interior General Purpose. Type SprayFilm-WB 4 and Type WB 4, Investigated for Exterior Use with top coat as described in Item 6G

ISOLATEK INTERNATIONAL — Type SprayFilm-WB 3 and Type WB 3. Investigated for Interior General Purpose. Type SprayFilm-WB 4 and Type WB 4, Investigated for Interior General Purpose. Type SprayFilm-WB 4 and Type WB 4, Investigated for Exterior Use with top coat as described in Item 6G

NEWKEM PRODUCTS CORP — Type WB 3. Investigated for Interior General Purpose. Type WB 4, Investigated for Interior General Purpose. Type WB4, Investigated for Exterior Use with top coat as described in Item 6F

6G. **Top Coat** — Type SprayFilm — TOPSEAL and Type TOPSEAL required for Exterior Use, applied at a minimum dry thickness of 14 mils (0.34 mm) over the intumescent material. See Classification information in the Mastic and Intumescent Coating (CDWZ) category. Isoltek International, for mixing requirements.

6H. **Mastic and Intumescent Coatings*** — As an alternate to Items 6 through 6F. For use with normal weight or light weight concrete and fluted steel floor and form units only. Min size W8x24 beams shall be primed with a phenolic modified alkyl primer at a thickness of 2 mil or an epoxy primer at a nominal thickness of 1 mil. Coating spray or brush applied in accordance with the manufacturer's instructions at the thicknesses shown below. The thickness includes the thickness of primer. The top surface of the top flange where fluted units are used must be protected with the coating material at the same min dry thickness or filled with nominal 4 pcf mineral wool.

Minimum Dry Thickness mils	Minimum Dry Thickness mm	Unrestrained Beam Rating Hr	Restrained Assembly Rating Hr
35	0.88	1	2
66	1.68	1-1/2	3

GREENTECH THERMAL INSULATION PRODUCTS MFG CO L L C — Type SprayFilm-WB-5 and Type WB-5. Investigated for Interior General Purpose

ISOLATEK INTERNATIONAL — Type SprayFilm-WB-5 and Type WB-5. Investigated for Interior General Purpose

7. **Shear Connector Studs** — Optional — Studs, 3/4 in. diam by 3 in. long, for 1-1/2 in. deep form units to 5-1/4 in. long for 3 in. deep form units, headed type or equivalent per AISC specifications. Welded to the top flange of the beam through the steel form units.

8. **Lath Hanger** — (Not Shown) — Optional - For use in caged beams with Items 6, 6A, 6B or 6C Galv steel 6 SWG min diam spaced 27 in. O. C.

9. **Clips** — (Not Shown) — Optional - For use in caged beams with Items 6, 6A, 6B or 6C No. 24 MSG spring steel pushed on to top and bottom flanges of beam spaced 6 in. O. C. max.

10. **Metal Lath** — (Not Shown) — Optional - For use in caged beams with Items 6, 6A, 6B or 6C 3/8 in. diamond mesh or rib lath, 3.4 lbs per sq yd expanded steel attached to beam with clips spaced 6 in. OC max; or tied to lath hangers with 18 SWG galv steel wire spaced 6 in. OC max.

11. **Electrical Inserts*** — (Not Shown) — Classified as "Outlet Boxes and Fittings Classified for Fire Resistance".

12. **Mineral and Fiberboards*** — (Optional, Not Shown) — Applied over concrete floor with no restriction on board thickness. When mineral and fiber boards are used, the unrestrained beam rating shall be increased by a minimum of 1/2 hr.

See **Mineral and Fiber Board** (CERZ) category for names of manufacturers.

13. **Foamed Plastic*** — (Optional, Not Shown) — Consisting of polyisocyanurate or urethane roof insulations. Applied over concrete floor with no restrictions on thickness. When polyisocyanurate or urethane insulation is used, the unrestrained beam rating shall be increased by a minimum of 1/2 hr.

See **Foamed Plastic** (CCVV) for list of manufacturers.

14. **Insulating Concrete** — (Optional, Not Shown) — Various types of insulating concrete prepared and applied as follows:

A. Vermiculite Concrete - Blend 6 to 8 cu ft of **Vermiculite Aggregate*** to 94 lb Portland cement and air entraining agent. Min thickness of 2 in. as measured to the top surface of the structural concrete or foamed plastic (Item 15) when it is used. See **Vermiculite Aggregate** (C172) category for names of Classified companies.

B. **Cellular Concrete-Roof Topping Mixture*** — Concentrate mixed with water and Portland cement per manufacturer's specifications. Min. thickness of 2-in. as measured to the top surface of the structural concrete or foamed plastic (Item 15 and 15A) when used. Cast dry density and 28-day min compressive strength of 190 psi as determined with ASTM C495-66.

AERIX INDUSTRIES — Cast dry density of 37 (+ or -) 3.0 pcf

CELCORE INC — Type Celcore with cast dry density of 31 (+ or -) 3.0 pcf or Type Celcore MF with cast dry density of 29 (+ or -) 3.0 pcf

ELASTIZELL CORP OF AMERICA — Type II, with a cast dry density of 39 (+ or -) 3.0 pcf

LITE-CRETE INC — Cast density of 29 (+ or -) 3.0 pcf

UL LISTING D902 CONTINUED

SIPLAST INC — Mix #1, Cast dry density of 32 (+ or -) 3 pcf

SIPLAST INC — Mix #2, Cast dry density of 36 (+ or -) 3 pcf

C. **Cellular Concrete-Roof Topping Mixture*** — Foam concentrate mixed with water, Portland cement and UL Classified Vermiculite Aggregate per manufacturer's application instructions. Cast dry density of 33 (+ or -) 3 pcf and 28 day compressive strength of min 250 psi as determined in accordance with ASTM C495-66.

AERIX INDUSTRIES — Mix #3

ELASTIZELL CORP OF AMERICA — Type II. Mix #1 of cast dry density 39 (+ or -) 3.0 pcf, Mix #2 of cast dry density 40 (+ or -) 3.0 pcf, Mix #3 of cast dry density 47 (+ or -) 3.0 pcf

SIPLAST INC — Mix #3

D. Perlite Concrete - 6 cu ft of **Perlite Aggregate*** to 94 lb of Portland Cement and 1-1/2 pt air entraining agent. Min thickness 2 in. as measured to the top surface of structural concrete or foamed plastic (Item 15A) when it is used.

See **Perlite Aggregate** (CFXX) in Fire Resistance Directory for names of Classified companies.

15. **Foamed Plastic*** — (Optional, Not Shown) — For use only with vermiculite (Item 14A) or cellular (Item 14B) concretes-Rigid polystyrene foamed plastic insulation having slots and/or holes sandwiched between vermiculite concrete slurry which is applied to the normal or lightweight concrete surface and vermiculite concrete topping (Item 14A).

See **Foamed Plastic*** (BRYX) category in Building Materials Directory or **Foamed Plastic*** (CCVV) category in Fire Resistance Directory for list of Classified companies.

15A. **Foamed Plastic*** — (Not Shown) — For use only with cellular or perlite concrete. Nominal 24 by 48 in. polystyrene foamed plastic insulation boards having a density of 1.0 (+ or -) 0.1 pcf, encapsulated within concrete topping. Each insulation board shall contain six nominal 3 in. diameter holes oriented in two rows of three holes each with the holes spaced 12 in. OC transversely and 16 in. OC longitudinally.

See **Foamed Plastic*** (BRYX) category in Building Materials Directory or Foamed Plastic* (CCVV) category in Fire Resistance Directory for list of Classified companies.

16. **Roof Covering Materials*** — (Optional, Not Shown) — Consisting of materials compatible with insulations described herein which provide Class A, B or C coverings. See Built-Up Roof Covering Materials in Building Materials Directory.

17. **Insulated Concrete** — (Optional, Not Shown) — various types of insulated concrete prepared and applied in the thickness indicated.

A. **Vermiculite Concrete** — Mix consists of 6 cu ft of Vermiculite Aggregate*, 94 lbs of Portland cement and 6 ox of air entraining agent. Thickness to be 2 in min from the top plane of steel roof deck.

ELASTIZELL CORP OF AMERICA — Types MS16-U, MSV 200.

B. **Perlite Concrete** — Mix consists of 6.2 cu ft **Perlite Aggregate*** to 94 lbs of Portland cement and 1-1/2 pt air entraining agent. Compressive strength 80 psi min.

See **Perlite Aggregate** (CFXX) category for names of Classified companies.

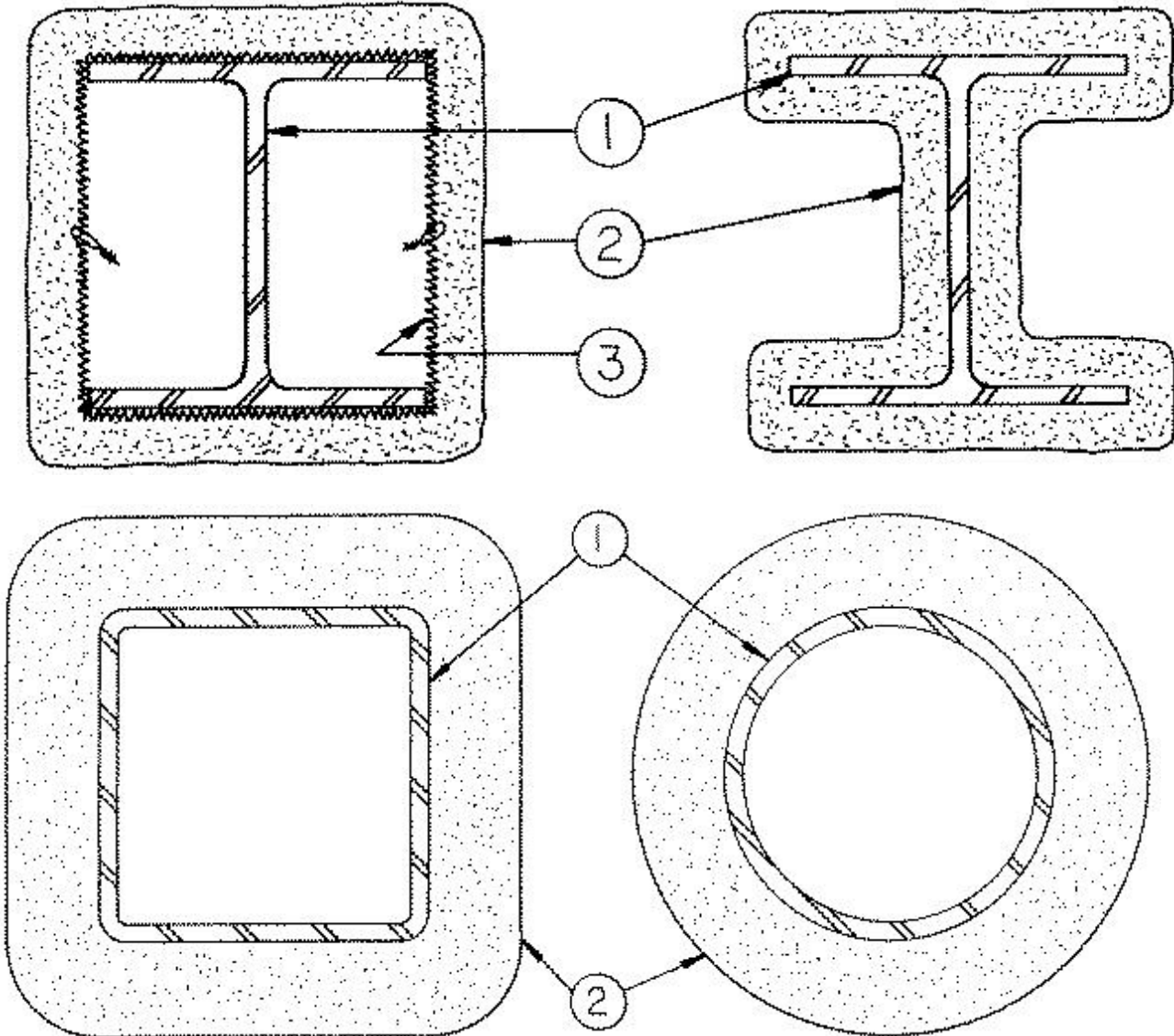
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

UL LISTING X790

November 17, 2014

Ratings — 1, 1-1/2, 2, 3 and 4 Hr.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. **Steel Column, Steel Pipe or Steel Tube** — Wide flange steel column (W) or steel circular pipe (SP) or steel square or rectangular tube (ST), min sizes as shown in the tables below.

2. **Spray-Applied Fire Resistive Materials*** — Applied by mixing with water and spraying in one or more coats to the thicknesses shown below, to steel surfaces which are clean and free of dirt, loose scale, and oil. Min average and min individual density of 15 and 14 pcf, for Types 300, 300AC, 300ES, 300HS, 300N, 3000, 3000ES and SB. For Types 400AC and 400ES: min average and min individual density of 22 and 19 pcf, respectively. For method of density determination, see Design Information Section, Sprayed Material.

The min thickness of Spray-Applied Fire Resistive Materials required for various fire resistance ratings of contour sprayed or boxed wide flange columns are shown in the table below:

Column Size	W/D	Min Thkns In.				
		1 Hr	1-1/2 Hr	2 Hr	3 Hr	4 Hr
W6x9	0.33	15/16	1-1/4	1-9/16	2-1/8	2-11/16
W6x12	0.43	13/16	1-1/8	1-7/16	2	2-9/16
W6x16	0.57	11/16	1	1-5/16	1-7/8	2-3/8
W8x28	0.68	5/8	15/16	1-1/4	1-13/16	2-5/16
W10x49	0.83	9/16	13/16	1-1/8	1-5/8	2-1/8
W12x106	1.46	3/8	9/16	13/16	1-1/4	1-11/16
W14x233	2.52	1/4	3/8	1/2	7/8	1-3/16
W14x730	6.68	1/4	1/4	1/4	3/8	1/2

UL LISTING X790 Continued

As an alternate to the above table, the required thickness of Spray-Applied Fire Resistive Materials to be applied to all surfaces of the steel columns for all rating periods may be determined from the following equations:

$$h = \frac{R}{75 (W/D) + 32}$$

(for column W/D range of 0.33 to 2.51)

$$h = \frac{R}{75 (W/D) + 15}$$

(for column W/D range of 2.51 to 6.68)

Where:

h = Spray-Applied Fire Resistive Materials thickness in the range of 1/4 to 4-1/2 in. (rounded up to the nearest 1/16 in.)

R = Fire resistance rating period in minutes (60-240 mins.)

D = Heated perimeter of the steel column in inches.

W = Weight of the steel column in lbs per foot.

The thicknesses contained in the table below are applicable when the Spray-Applied Fire Resistive Materials applied to the column's flange tips are reduced to one-half that shown in the table below (for contour application):

Column Size In.		Min Thkns In.				
		1 Hr	1-1/2 Hr	2 Hr	3 Hr	4 Hr
W6x9	1	1-3/8	1-3/4	2-7/16	3-1/8	
W6x12	7/8	1-1/4	1-5/8	2-5/16	3-1/16	
W6x16	3/4	1-1/8	1-7/16	2-1/16	2-11/16	
W8x28	11/16	1	1-5/16	1-15/16	2-1/2	
W10x49	5/8	15/16	1-3/16	1-3/4	2-3/8	
W12x106	3/8	5/8	7/8	1-3/8	1-13/16	
W14x233	5/16	3/8	9/16	15/16	1-5/16	
W14x730	5/16	5/16	5/16	7/16	5/8	

The min thickness of Spray-Applied Fire Resistive Materials required for various fire resistance ratings of contour sprayed steel pipes or tubes are shown on the table below:

Min Column Size In.	A/P	1 Hr	1-1/2 Hr	Min Thkns In. 2 Hr	3 Hr	4 Hr
SP 4x0.237	0.22	11/16	1	1-3/8	2-1/16	2-3/4
ST 4x4x0.1875	0.18	3/4	1-1/16	1-7/16	2-1/16	2-11/16
ST 4x4x0.3125	0.29	1/2	13/16	1-1/8	1-3/4	2-5/16
ST 4x4x0.375	0.34	7/16	3/4	1	1-9/16	2-1/8
ST 4x4x0.5	0.44	3/8	9/16	7/8	1-3/8	1-7/8
ST20x20x0.75 in	0.72	5/16	1/2	11/16	1-1/16	1-7/16
ST20x20x1 in	0.95	1/4	3/8	1/2	13/16	1-1/8
ST20x20x1.5 in.	1.39	1/4	1/4	3/8	5/8	13/16
ST20x20x1.75 in.	1.60	1/4	1/4	3/8	1/2	3/4
ST32x32x1.25 in.	1.20	1/4	5/16	7/16	11/16	15/16
ST 36x24x0.5	0.49	5/16	7/16	11/16	1-1/8	1-9/16

As an alternate to the table above, the required thickness of Spray-Applied Fire Resistive Materials to be applied to all surfaces of the steel pipes or tubes for all rating periods may be determined from the following equation:

$$h = \frac{R}{188 (A/P) + 45}$$

Where:

h = Spray-Applied Fire Resistive Materials thickness in the range of 5/16 to 4-1/4 in. (rounded up to the nearest 1/16 in.)

R = Fire resistance rating in minutes (60-240 mins.)

A = Cross-sectional area of pipe or tube.

P = Heated perimeter of steel pipe or tube.

A/P = 0.18 to 0.49.

The A/P ratio of a circular pipe is determined by:

$$A/P = \frac{t (d - t)}{d}$$

Where:

d = the outer diameter of the pipe (in.)

t = the wall thickness of the pipe (in.)

The A/P ratio of a rectangular tube is determined by:

$$A/P = \frac{t (a + b - 2t)}{a + b}$$

Where:

a = the outer width of the tube (in.)

b = the outer length of the tube (in.)

t = the wall thickness of the tube (in.)

BERLIN CO LTD — Types 300, 300ES, 300N or SB.

GREENTECH THERMAL INSULATION PRODUCTS MFG CO L L C — Types 300, 300AC, or 400AC.

ISOLATEK INTERNATIONAL — Type 300, 300AC, 300ES, 300HS, 300N, 400AC, 400ES, SB, 3000 or 3000ES.

NEWKEM PRODUCTS CORP — Types 300, 300ES, 300N or SB.

2A. **(As an alternate to Item 2) Spray-Applied Fire Resistive Materials*** — Applied by mixing with water and spraying in one or more coats to the thicknesses shown below, to steel surfaces which are clean and free of dirt, loose scale, and oil. Min average and min individual density of 17.5 and 16 pcf, respectively, for Type 300TW. Min average and min individual density of 22 and 19 pcf, respectively, for Type 400. For method of density determination, see Design Information Section, Sprayed Material.

The min thickness of Spray-Applied Fire Resistive Materials required for various fire resistance ratings is shown in Item 2.

BERLIN CO LTD — Type 400.

GREENTECH THERMAL INSULATION PRODUCTS MFG CO L L C — Type 400.

ISOLATEK INTERNATIONAL — Type 300TW or Type 400.

NEWKEM PRODUCTS CORP — Type 400.

2B. **(As an alternate to Item 2 and 2A) — Spray-Applied Fire Resistive Materials*** — Prepared by mixing with water according to instructions on each bag of mixture and spray- or trowel-applied to steel surfaces which are free of dirt, oil or scale. Min average density of 17.5 pcf with min individual value of 17.0 pcf. For method of density determination, see Design Information Section, Sprayed Material.

The min thickness of Spray-Applied Fire Resistive Materials required for various fire resistance ratings is shown in Item 2.

ISOLATEK INTERNATIONAL — Type 280.

UL LISTING X790 Continued

3. **Metal Lath** — (Optional for contour application) — 3.4 lb/sq yd galv or painted expanded steel lath. Lath shall be lapped 1 in. and tied together with No. 18 SWG galv steel wire spaced vertically 6 in. OC.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

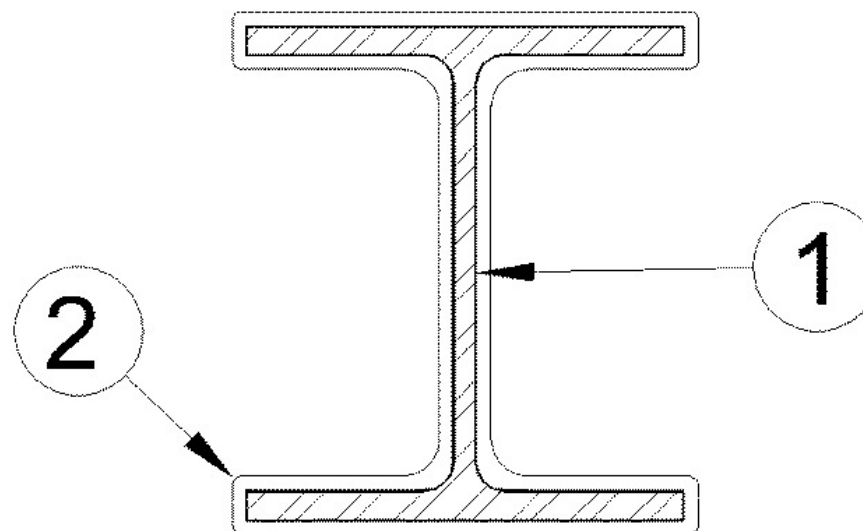
UL LISTING X649

Design No. X649

October 04, 2016

Ratings - 1, 1-1/2, 2, 3 and 4 Hr. (See Item 2)

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. **Steel Column** — Wide flange steel columns with the minimum sizes shown in the tables below. Columns shall be free of dirt, loose scale and oil. Columns shall be primed with a phenolic modified alkyl resin primer, a metal alkyl primer, an acrylic primer or an epoxy primer at a nominal thickness of 2 mil.

UL LISTING X649 Continued

2/14/2020

[UL Product ID]

W8 x 28	40.0	197	1.79	3.31	5.42	11.51	NR
W8 x 35	43.6	181	1.64	3.24	5.11	10.58	NR
W10 x 39	45.4	172	1.56	3.08	4.85	10.04	NR
W10 x 49	49.1	159	1.45	2.86	4.50	9.32	NR
W10 x 45	51.9	151	1.37	2.70	4.25	8.80	NR
W16 x 57	55.9	141	1.28	2.53	3.98	8.24	NR
W8 x 48	58.8	134	1.22	2.40	3.78	7.83	NR
W14 x 90	62.6	125	1.14	2.24	3.53	7.32	NR
W10 x 68	66.9	118	1.07	2.11	3.32	6.87	NR
W18 x 97	71.0	111	1.02	1.98	3.13	6.47	NR
W10 x 77	75.2	105	0.97	1.88	2.95	6.12	NR
W16 x 100	79.4	99	0.91	1.76	2.78	5.76	NR
W10 x 88	84.9	92	0.85	1.66	2.61	5.40	NR
W14 x 132	90.0	87	0.80	1.56	2.46	5.08	NR
W12 x 120	96.2	82	0.75	1.46	2.31	4.77	NR
W33 x 221	100.9	78	0.71	1.47	2.24	4.78	11.0
W14 x 158	103.9	78	0.70	1.43	2.16	4.74	10.7
W14 x 176	114.4	69	0.63	1.30	1.96	4.52	9.75
W14 x 193	124.4	63	0.59	1.19	1.81	4.16	8.97
W14 x 211	135.0	58	0.59	1.10	1.66	3.83	8.28
W14 x 232	147.9	53	0.59	1.00	1.52	3.50	7.54
W14 x 257	161.4	49	0.59	0.92	1.39	3.21	6.91
W14 x 283	176.0	45	0.59	0.84	1.28	2.94	4.92

NR = No Rating

As an alternate to the above table, the required thickness of coating (in mm) to be applied to all surfaces of wide flange steel columns for 1 hour ratings, in the M/D range of 19.1 to 66.8, may be determined from the following equation:

T = 71.6/(M/D)

Where T = Thickness of coating in the range of 1.07 to 3.68 mm, M = Weight of steel column in kilograms per linear meter, D = Heated perimeter of steel column section in meters.

As an alternate to the above table, the required thickness of coating (in mm) to be applied to all surfaces of wide flange steel columns for 1-1/2 hour ratings, in the M/D range of 19.1 to 96.2, may be determined from the following equation:

T = 141.3/(M/D)

Where T = Thickness of coating in the range of 1.46 to 6.76 mm, M = Weight of steel column in kilograms per linear meter, D = Heated perimeter of steel column section in meters.

As an alternate to the above table, the required thickness of coating (in mm) to be applied to all surfaces of wide flange steel columns for 2 hour ratings, in the M/D range of 25.9 to 96.2, may be determined from the following equation:

T = 222.7/(M/D)

Where T = Thickness of coating in the range of 2.31 to 8.60 mm, M = Weight of steel column in kilograms per linear meter, D = Heated perimeter of steel column section in meters.

As an alternate to the above table, the required thickness of coating (in mm) to be applied to all surfaces of wide flange steel columns for 3 hour ratings, in the M/D range of 33.9 to 96.2, may be determined from the following equation:

T = 461.0/(M/D)

Where T = Thickness of coating in the range of 4.77 to 12.80 mm, M = Weight of steel column in kilograms per linear meter, D = Heated perimeter of steel column section in meters.

As an alternate to the above table, the required thickness of coating (in mm) to be applied to all surfaces of wide flange steel columns for 4 hour ratings, in the M/D range of 100.9 to 176.0, may be determined from the following equation:

T = 1116.4/(M/D)

Where T = Thickness of coating in the range of 4.92 to 11.0 mm, M = Weight of steel column in kilograms per linear meter, D = Heated perimeter of steel column section in meters.

BERLIN CO LTD — Type WB 3, Investigated for Interior General Purpose, Type WB 4, Investigated for Interior General Purpose, Type WB 4, Investigated for Exterior Use with top coat as described in Item 3

GREENTECH THERMAL INSULATION PRODUCTS MFG CO L L C — Type WB 3, Investigated for Interior General Purpose, Type WB 4, Investigated for Interior General Purpose, Type WB 4, Investigated for Exterior Use with top coat as described in Item 3

ISOLATEK INTERNATIONAL — Type SprayFilm-WB 3 and Type WB 3, Investigated for Interior General Purpose, Type SprayFilm-WB 4 and Type WB 4, Investigated for Interior General Purpose, Type SprayFilm-WB 4 and Type WB 4, Investigated for Exterior Use with top coat as described in Item 3

NEWKEM PRODUCTS CORP — Type WB 3, Investigated for Interior General Purpose, Type WB 4, Investigated for Interior General Purpose, Type WB 4, Investigated for Exterior Use with top coat as described in Item 3

3. **Top Coat** — Type SprayFilm — TOPSEAL and Type TOPSEAL required for Exterior Use, applied at a minimum dry thickness of 14 mils (0.34 mm) over the intumescent material.
See Classification information in the **Mastic and Intumescent Coating (CDN2)** category, Isoltek International, for mixing requirements.

<https://ul.alpesscience.com/es/profile/?r=15402>

3/4

FIRESTOPPING

SCHEDULES OF THROUGH PENETRATION FIRESTOP SYSTEMS

CONCRETE FLOORS		UL-CLASSIFIED SYSTEMS			CONCRETE OR BLOCK WALLS		UL-CLASSIFIED SYSTEMS		
TYPE OF PENETRANT	F-RATING (HR)	HILTI	3M	TREMCO	TYPE OF PENETRANT	F-RATING	HILTI	3M	TREMCO
CIRCULAR BLANK OPENINGS	1	FA 0006, CAJ 0070	CAJ 0009	CAJ 0011	CIRCULAR BLANK OPENINGS	1	CAJ 0055, CAJ 0070	CAJ 0009	CAJ 0011
	2	FA 0006, CAJ 0070	CAJ 0009	CAJ 0011		2	CAJ 0055, CAJ 0070	CAJ 0009	CAJ 0011
	3	CAJ 0055	CAJ 0009	N/A*		3	CAJ 0055	CAJ 0009	N/A*
SINGLE METAL PIPES OR CONDUIT	1	CAJ 1226, CAJ 1382	CAJ 1058	CAJ 1064, CAJ 1302	SINGLE METAL PIPES OR CONDUIT	1	CAJ 1226, WJ 1021	CAJ 1058	CAJ 1064, CAJ 1302
	2	CAJ 1226, CAJ 1382	CAJ 1058	CAJ 1064, CAJ 1302		2	CAJ 1226, WJ 1021	CAJ 1058	CAJ 1064, CAJ 1302
	3	FA 1017, CAJ 1226, CAJ 1382	CAJ 1058	CAJ 1064		3	CAJ 1226, WJ 1041, WJ 1042	CAJ 1058	CAJ 1064
	4	CBJ 1037, CBJ 1034	CAJ 1044	CAJ 1064		4	CBJ 1034, CBJ 1037, WJ 1041, WJ 1042	CAJ 1044	CAJ 1064
SINGLE NON-METALLIC PIPE OR CONDUIT (I.E. PVC, CPVC, ABS, ENT)	1	FA 2053, CAJ 2109, CAJ 2098, CAJ 2141, CAJ 2167, CBJ 2021	CAJ 2189, CAJ 2117, CAJ 2027	CAJ 2075, CAJ 2116, CAJ 2229	SINGLE NON-METALLIC PIPE OR CONDUIT (I.E. PVC, CPVC, ABS, ENT)	1	CAJ 2109, CAJ 2098	CAJ 2189, CAJ 2117, CAJ 2027	CAJ 2075, CAJ 2116, CAJ 2229
	2	FA 2053, CAJ 2109, CAJ 2098, CAJ 2141, CAJ 2167, CBJ 2021	CAJ 2189, CAJ 2117	CAJ 2075, CAJ 2116, CAJ 2229, FA 2024		2	CAJ 2109, CAJ 2098	CAJ 2189, CAJ 2117, CAJ 2027	CAJ 2075, CAJ 2116, CAJ 2229
	3	FA 2054, CAJ 2109, CAJ 2098	CAJ 2005, CAJ 2117	CAJ 2075		3	CAJ 2109, CAJ 2117, CAJ 2027	CAJ 2005, CAJ 2117, CAJ 2027	CAJ 2075
	4	N/A*	N/A*	N/A*		4	WJ 2057	N/A*	N/A*
SINGLE OR BUNDLED CABLES	1	FA 3007, CAJ 3095, CAJ 3096	CAJ 3021	CAJ 3141	SINGLE OR BUNDLED CABLES	1	WJ 3036, CAJ 3095, CAJ 3096	CAJ 3021	CAJ 3141
	2	FA 3007, CAJ 3095, CAJ 3096	CAJ 3021	CAJ 3141		2	WJ 3036, CAJ 3095, CAJ 3096	CAJ 3021	CAJ 3141
	3	CAJ 3095, FA 3007	CAJ 3030	CAJ 3141		3	CAJ 3095, CAJ 3096	CAJ 3030	CAJ 3141
	4	N/A*	N/A*	N/A*		4	WJ 3050	N/A*	N/A*
CABLE TRAY	1	CAJ 4034, CAJ 4054	CAJ 4003	N/A*	CABLE TRAY	1	WJ 4016, CAJ 4034, CAJ 4054	CAJ 4003	WJ 4012
	2	CAJ 4034, CAJ 4054	CAJ 4003	N/A*		2	WJ 4016, CAJ 4034, CAJ 4054	CAJ 4003	WJ 4012
	3	CAJ 4034, CAJ 4035	CAJ 4003	N/A*		3	CAJ 4034, CAJ 4035	CAJ 4003	N/A*
	4	N/A*	N/A*	N/A*		4	WJ 8007	N/A*	N/A*
SINGLE INSULATED PIPES	1	FA 5015, FA 5016, CAJ 5090, CAJ 5091, CAJ 5098	CAJ 5080, CAJ 5024, CAJ 5017	CAJ 5111, CAJ 5121	SINGLE INSULATED PIPES	1	CAJ 5090, CAJ 5091, CAJ 5061	CAJ 5080, CAJ 5024, CAJ 5017	CAJ 5111, CAJ 5121
	2	FA 5015, FA 5016, CAJ 5090, CAJ 5091, CAJ 5098	CAJ 5080, CAJ 5024, CAJ 5017	CAJ 5111, CAJ 5121		2	CAJ 5090, CAJ 5091, CAJ 5061	CAJ 5080, CAJ 5024, CAJ 5017	CAJ 5111, CAJ 5121
	3	FA 5016, CAJ 5090	CAJ 5024, CAJ 5017	N/A*		3	CAJ 5090, CAJ 5017	CAJ 5024, CAJ 5017	N/A*
	4	CBJ 5006	N/A*	N/A*		4	WJ 5028, CBJ 5006	N/A*	N/A*
ELECTRICAL BUSWAY	1	CAJ 6006, CAJ 6017	CAJ 6001, CAJ 6002	CAJ 6007	ELECTRICAL BUSWAY	1	CAJ 6006, CAJ 6017	CAJ 6001, CAJ 6002	CAJ 6007
	2	CAJ 6006, CAJ 6017	CAJ 6001, CAJ 6002	CAJ 6007		2	CAJ 6006, CAJ 6017	CAJ 6001, CAJ 6002	CAJ 6007
	3	CAJ 6006, CAJ 6017	CAJ 6001, CAJ 6002	CAJ 6007		3	CAJ 6006, CAJ 6017	CAJ 6001, CAJ 6002	CAJ 6007
NON-INSULATED MECHANICAL DUCTWORK WITHOUT DAMPERS	1	CAJ 7046, CAJ 7051	CAJ 7021	CAJ 7005, CAJ 7044	NON-INSULATED MECHANICAL DUCTWORK WITHOUT DAMPERS	1	CAJ 7046, CAJ 7051, WJ 7021, WJ 7022	CAJ 7003, CAJ 7021	CAJ 7005, CAJ 7044
	2	CAJ 7046, CAJ 7051	CAJ 7003, CAJ 7021	CAJ 7005, CAJ 7044		2	CAJ 7046, CAJ 7051, WJ 7021, WJ 7022	CAJ 7003, CAJ 7021	CAJ 7005, CAJ 7044
	3	CAJ 7046, CAJ 7051	CAJ 7003, CAJ 7021	CAJ 7005		3	CAJ 7046, CAJ 7051	CAJ 7003, CAJ 7021	CAJ 7005
MIXED PENETRANTS	1	CAJ 8041, CAJ 8056, CAJ 8096	CAJ 8001, CAJ 8013	CAJ 8057	MIXED PENETRANTS	1	CAJ 8041, CAJ 8096, WJ 8007	CAJ 8001, CAJ 8013	CAJ 8057
	2	CAJ 8041, CAJ 8056, CAJ 8096	CAJ 8001, CAJ 8013	CAJ 8057		2	CAJ 8041, CAJ 8096, WJ 8007	CAJ 8001, CAJ 8013	CAJ 8057
	3	CAJ 8041, CAJ 8056	CAJ 8001, CAJ 8013	N/A*		3	CAJ 8041, CAJ 8056, WJ 8007	CAJ 8001, CAJ 8013	N/A*
	4	CBJ 8010	N/A*	N/A*		4	CBJ 8010, WJ 8007	N/A*	N/A*

* No UL-Classified systems for this manufacturer. Engineer Judgement Drawing Required

WOOD FLOORS		UL-CLASSIFIED SYSTEMS			GYPSUM WALLBOARD ASSEMBLIES		UL-CLASSIFIED SYSTEMS		
TYPE OF PENETRANT	F-RATING	HILTI	3M	TREMCO	TYPE OF PENETRANT	F-RATING	HILTI	3M	TREMCO
METAL PIPES OR CONDUIT	1	FC 1009, FC 1059	FC 1002	FC 1050, FC 1054	METAL PIPES OR CONDUIT	1	WL 1050, WL 1058, WL 1164	WL 1146	WL 1158
	2	FC 1009, FC 1059	FC 1002	N/A*		2	WL 1054, WL 1058, WL 1164	WL 1010, WL 1146	WL 1019, WL 1020, WL 1158
	4	FC 1009, FC 1059	FC 1002	N/A*		4	WL 1110, WL 1111	WL 1001	N/A*
NON-METALLIC PIPE OR CONDUIT	1	FC 2025, FC 2030	FC 2024	FC 2049, FC 2135	NON-METALLIC PIPE OR CONDUIT	1	WL 2078, WL 2075, WL 2128	WL 2088, WL 2002	WL 2083, WL 2129
	2	FC 2025, FC 2029	FC 2024	FC 2049, FC 2083		2	WL 2078, WL 2075, WL 2128	WL 2088, WL 2002	WL 2063, WL 2129, WL 2159
	4	FC 2025, FC 2029	FC 2024	N/A*		4	WL 2184	N/A*	N/A*
SINGLE OR BUNDLED CABLES	1	FC 3012, FC 3044	FC 3017	FC 3037	SINGLE OR BUNDLED CABLES	1	WL 3065, WL 3111, WL 3112	WL 3032, WL 3030	WL 3131
	2	FC 3012	FC 3017	N/A*		2	WL 3065, WL 3111, WL 3112	WL 3032, WL 3030	WL 3017, WL 3131
	4	FC 3012	FC 3017	N/A*		4	WL 3139	N/A*	N/A*
	2	FC 3012	FC 3017	N/A*	CABLE TRAY	1	WL 4019, WL 4054	WL 4004	N/A*
						2	WL 4019, WL 4054	WL 4004	WL 4012
INSULATED PIPES	1	FC 5004, FC 5036, FC 5037	FC 5014	FC 5055	INSULATED PIPES	1	WL 5028, WL 5029, WL 5047	WL 5040, WL 5001, WL 5032	WL 5070, WL 5081
	2	FC 5004, FC 5036, FC 5037	N/A*	N/A*		2	WL 5028, WL 5029, WL 5047	WL 5040, WL 5001, WL 5032	WL 5070, WL 5081
	4	FC 5004, FC 5036, FC 5037	N/A*	N/A*		4	WL 5073	N/A*	N/A*
NON-INSULATED MECHANICAL DUCTWORK WITHOUT DAMPERS	1	FC 7013	FC 7001	N/A*	NON-INSULATED MECHANICAL DUCTWORK WITHOUT DAMPERS	1	WL 7017, WL 7040, WL 7042	WL 7008	WL 7039
	2	FC 7013	FC 7001	N/A*		2	WL 7040, WL 7042	WL 7008, WL 7013, WL 7016	WL 7039
MIXED PENETRANTS	1	FC 8009, FC 8014	FC 8013	N/A*	MIXED PENETRANTS	1	WL 8055, WL 8013	WL 8010	N/A*
	2	FC 8009, FC 8014	FC 8013	N/A*		2	WL 8055, WL 8013	WL 8010, WL 8002	N/A*
	4	FC 8009, FC 8014	FC 8013	N/A*		4	WL 8014	N/A*	N/A*

* No UL-Classified systems for this manufacturer. Engineer Judgement Drawing Required

- NOTES:
1. Actual conditions of each through-penetration firestop system must meet ALL details of the UL-Classified System selected.
 2. If job site conditions do not match any UL-Classified systems in the schedules above, contact firestop manufacturer for alternative systems or Engineer Judgement Drawings.
 3. Where more than one applicable UL-Classified System is listed in the schedules, choose the UL System which is most economical for each through-penetration firestop system.
 4. Coordinate work with other trades to assure that penetration opening sizes are appropriate for penetrant locations, and size areas.
 5. For 3-hour rated gypsum walls, contact the firestop manufacturer for a UL-Classified system or engineer judgement drawing.
 6. All through penetrations of fire-resistance rated assemblies are required to be protected by an approved through-penetration fire stop system installed and tested in accordance with the requirements established by IBC 714.1.

ISSUE DATE

1 Permit Set 3/23/20

REVISION DATE

1454 39th Street Self Storage

Safe N Lock
1454 39TH ST
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK



BUTZ•WILBERN LTD

Planning | Architecture
Interiors | Property Visioning

800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010



© Butz•Wilbern Ltd. 2019

FIRESTOPPING

A-064.00

17 OF 48</

HARDWARE SCHEDULE

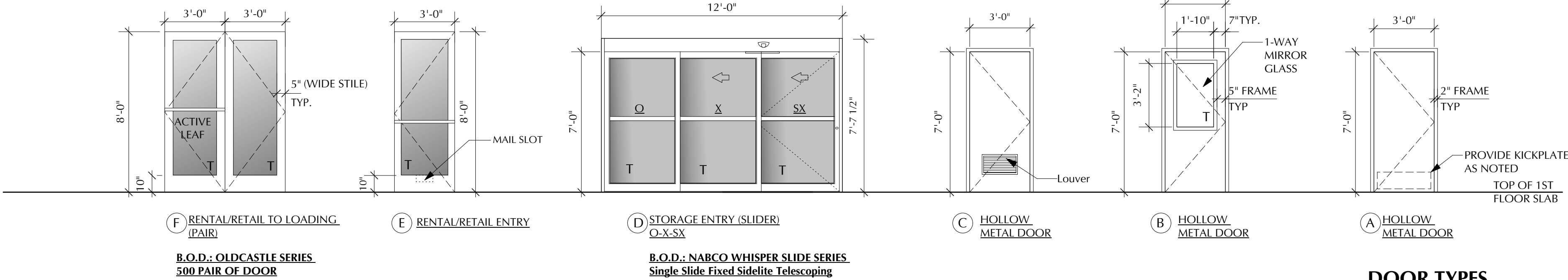
SET #	LOCATION	DESCRIPTION
SET 1	INTERIOR STORAGE UNIT - COILING	LOCK OUT SLIDE HASP 2 LIFT HANDLES INSIDE DOOR STOP TENSION ADJUSTER VINYL ASTRAGAL ADA KIT (WHERE REQUIRED)
SET 2	STORAGE - SWING	LOCK OUT SLIDE HASP STANDARD HINGES ADA KIT (WHERE REQUIRED)
SET 3	ENTRY SLIDER	1 SET MFR. STANDARD DOOR OPERATOR-MODEL AS NOTED W/ EMERGENCY EGRESS OPTION & INTEGRAL KEYED SWITCH FOR DOOR DISABLER W/ 2 SU-100 MOTION SENSORS & SAFETY DEVICES (INTERFACE W/ SECURITY SYSTEM & KEYPAD) CRASH BAR @ EACH BREAKOUT LEAF BY DOOR MFR. (COORDINATE THRESHOLD WITH RAIN LIP) 1 KEY PAD (BY SECURITY SUBCONTRACTOR)
SET 4	JANITOR'S CLOSET	3 FULL MORTISE BUTT HINGES 1 CLASSROOM LOCK SET 3 SILENCERS 1 KICKPLATE 1 KICK DOWN DOOR STOP
SET 5	HALLWAY TO STAIR	1 PASSAGE LATCHSET, ADA UL RATED 1 KICKPLATE 3 FULL MORTISE BUTT HINGES 1 SURFACE MOUNTED CLOSER ADA COMPLIANT, UL RATED (PUSH SIDE) 1 WALL STOP, 3 SILENCERS
SET 6	STAIR EGRESS	1 PANIC EXIT DEVICE WITH AUDIBLE ALARM, EXIT ONLY 1 SURFACE MOUNTED CLOSER PUSH SIDE MOUNTED (UL RATED W/ SAFETY CHAIN) 3 FULL MORTISE BUTT TAMPER PROOF HINGES 1 LATCH PROTECTOR 1 THRESHOLD ADA COMPLIANT 1 DOOR SWEEP, 1 SET WEATHER STRIPPING
SET 7	ELECTRIC ROOM SPRINKLER ROOM	3 FULL MORTISE BUTT HINGES 1 STOREROOM LOCK SET 1 SURFACE MOUNTED CLOSER (UL RATED WHERE APPLICABLE) 1 PANIC DEVICE (@ ELECTRIC ROOM) 1 WALL STOP, 3 SILENCERS 1 12" KICK PLATE WITH SAFETY CHAIN @ INTERIOR SIDE
SET 8	ELEVATOR MACHINE ROOM	3 FULL MORTISE BUTT TAMPER PROOF HINGES PER LEAF 1 STOREROOM LOCK SET ON ACTIVE LEAF 1 SET OF MANUAL FLUSH BOLTS TOP & BOTTOM ON INACTIVE LEAF 1 SURFACE MOUNTED CLOSER, PUSH SIDE MOUNTED ON EACH LEAF NO HANDLE ON INACTIVE LEAF
SET 9	RETAIL/RENTAL ENTRY FROM LOADING (PAIR OF DOORS)	1 SET TOP & BOT PIVOTS @ EACH DOOR 1 DOUBLE KEYED CYLINDER 1 MFR. STND. PUSH PLATE INSIDE (ACTIVE LEAF ONLY) 1 MFR. STND. PULL OUTSIDE (ACTIVE LEAF ONLY) 1 DOOR CLOSERS PUSH SIDE MOUNTED WITH SAFETY CHAIN 1 THRESHOLD ADA COMPLIANT (COORDINATE W/ RAIN LIP) 1 DOOR SWEEP BY MFR. 1 SET WEATHERSTRIPPING BY FRAME MFR.
SET 10	BATHROOM	3 FULL MORTISE BUTT HINGES 1 PRIVACY LOCK 1 SURFACE MOUNTED CLOSER PULL SIDE MOUNTED 1 KICK PLATE PUSH SIDE 1 ADA COMPLIANT THRESHOLD 3 SILENCERS, 1 WALL STOP
SET 11	BREAKROOM	3 FULL MORTISE BUTT HINGES 3 SILENCERS 1 WALL STOP 1 CLASSROOM LOCK 1 KICK DOWN DOOR STOP 3 SILENCERS
SET 12	RETAIL/RENTAL ENTRY (SINGLE DOOR)	1 SET TOP & BOT PIVOTS 1 KEYED CYLINDER WITH DEAD BOLT 1 MFR. STND. PUSH BAR INSIDE 1 MFR. STND. PULL OUTSIDE 1 DOOR CLOSER PULL SIDE MOUNTED WEATHERSTRIPPING BY FRAME MFR. 1 FLOOR DOOR STOP 1 THRESHOLD ADA COMPLIANT 1 MAIL SLOT 1 DOOR BELL
SET 13	UPPER ROOF ACCESS	1 STOREROOM LOCK SET 1 SURFACE MOUNTED CLOSER PUSH SIDE MOUNTED 3 FULL MORTISE BUTT TAMPER PROOF HINGES 1 THRESHOLD 1 LATCH PROTECTOR 1 SET WEATHER STRIPPING
SET 14	SECURITY CLOSET	3 FULL MORTISE BUTT HINGES 1 STOREROOM LOCK SET 3 SILENCERS 24" X 18" LOUVER
SET 15	RETAIL/RENTAL TO STORAGE	1 CLASSROOM LOCK 1 SURFACE MOUNTED CLOSER PUSH SIDE MTD. 3 FULL MORTISE BUTT HINGES 1 SET WEATHERSTRIPPING BY FRAME MFR. 3 SILENCER 1 ADA COMPLIANT THRESHOLD 1 DOOR SWEEP BY MFR.
1. ALL COMMERCIAL HARDWARE SHALL MEET ADAAG AND CABO/ANSI ACCESSIBILITY REQUIREMENTS. 2. ALL EXTERIOR DOORS, DOORS BETWEEN LOADING AND OFFICE, AND DOORS BETWEEN CONDITIONED & NON-CONDITIONED SPACES SHALL RECEIVE RECEIVE WEATHER STRIPPING ON ALL 4 SIDES. 3. DESCRIPTIVE LATCH TERMS FOLLOW "ALLEGION" WHERE POSSIBLE. 4. COMMERCIAL HARDWARE LATCHES - ALLEGION (LIGHT AND MEDIUM DUTY COMMERCIAL GRADE) OR EQUAL SATIN CHROME FINISH. 5. ALL HARDWARE SHALL MEET UL RATING AT DOORS REQUIRED TO BE RATED AND PER NTC. CODE. 6. PROVIDE SILENCERS IN METAL DOOR FRAMES, UNLESS NOT PERMITTED FOR FIRE RATING, OR UNLESS WEATHER STRIPPING IS PROVIDED.		

DOOR SCHEDULE

#	LOCATION	SIZE	TH	NOM WIDTH	NOM HEIGHT	OPERATION	TYPE	DOOR MATERIAL	FINISH	FRAME MATERIAL	FRAME FINISH	FIRE RATING	HARDWARE SET	REMARKS
1	INTERIOR UPPER LOCKERS	-	3'-0"	6'-8"	3'-8"	SWING	N/A	LT. GA. MTL.	PRE-FINISHED	N/A	N/A	0 HRS	2	SEE NOTE #1
2	INTERIOR STORAGE UNIT	-	8'-0"	6'-8"	COILING	N/A	LT. GA. MTL.	PRE-FINISHED	N/A	N/A	N/A	0 HRS	1	SEE NOTE #1
3	INTERIOR STORAGE UNIT	-	7'-0"	6'-8"	COILING	N/A	LT. GA. MTL.	PRE-FINISHED	N/A	N/A	N/A	0 HRS	1	SEE NOTE #1
4	INTERIOR STORAGE UNIT	-	6'-0"	6'-8"	COILING	N/A	LT. GA. MTL.	PRE-FINISHED	N/A	N/A	N/A	0 HRS	1	SEE NOTE #1
5	INTERIOR STORAGE UNIT	-	4'-0"	6'-8"	COILING	N/A	LT. GA. MTL.	PRE-FINISHED	N/A	N/A	N/A	0 HRS	1	SEE NOTE #1
6	INTERIOR STORAGE UNIT	-	3'-0"	6'-8"	COILING	N/A	LT. GA. MTL.	PRE-FINISHED	N/A	N/A	N/A	0 HRS	1	SEE NOTE #1
7	INTERIOR STORAGE UNIT& LOCKERS	-	3'-0"	6'-8"	SWING	N/A	LT. GA. MTL.	PRE-FINISHED	N/A	N/A	N/A	0 HRS	2	SEE NOTE #1
7.1	UPPER LOCKERS	-	3'-0"	6'-0"	SWING	N/A	LT. GA. MTL.	PRE-FINISHED	N/A	N/A	N/A	0 HRS	2	SEE NOTE #1
8	INTERIOR FAUX STORAGE UNIT	-	3'-0"	6'-8"	FIXED	N/A	LT. GA. MTL.	PRE-FINISHED	N/A	N/A	N/A	0 HRS	N/A	SEE NOTE #3
9	INTERIOR FAUX STORAGE UNIT	-	3'-0"	6'-8" & 3'-4"	FIXED	N/A	LT. GA. MTL.	PRE-FINISHED	N/A	N/A	N/A	0 HRS	N/A	SEE NOTE #3
10	ENTRY SLIDER	-	12'-0"	7'-7 1/2"	SLIDER	D	ALUMINUM	PRE-FINISHED	ALUMINUM	PRE-FINISHED	ALUMINUM	0 HRS	3	SEE NOTE #7
11	JANITOR'S CLOSET	1 3/4"	3'-0"	7'-0"	SWING	A	HOLLOW METAL	PAINT	HOLLOW METAL	PAINT	PAINT	0 HRS	4	SEE NOTE #2
12	HALLWAY TO STAIR	1 3/4"	3'-0"	7'-0"	SWING	A	HOLLOW METAL	PAINT	HOLLOW METAL	PAINT	PAINT	1.5 HRS	5	SEE NOTE #2
13	STAIR TO OUTSIDE	1 3/4"	3'-0"	7'-0"	SWING	A	HOLLOW METAL	PAINT	HOLLOW METAL	PAINT	PAINT	0 HRS	6	SEE NOTE #5
14	ELECTRIC ROOM	1 3/4"	3'-0"	7'-0"	SWING	A	HOLLOW METAL	PAINT	HOLLOW METAL	PAINT	PAINT	0 HRS	7	SEE NOTE #5
15	SPRINKLER ROOM	1 3/4"	3'-0"	7'-0"	SWING	A	HOLLOW METAL	PAINT	HOLLOW METAL	PAINT	PAINT	0 HRS	7	SEE NOTE #5
16	ELEVATOR CONTROL ROOM	1 3/4"	3'-0"	7'-0"	SWING	A	HOLLOW METAL	PAINT	HOLLOW METAL	PAINT	PAINT	1.5 HRS	8	SEE NOTE #2
17	RETAIL/RENTAL ENTRY	1 3/4"	3'-0"	7'-0"	SWING	E	STOREFRONT	PRE-FINISHED	STOREFRONT	ALUMINUM	ALUMINUM	0 HRS	12	SEE NOTE #5 & 6
18	RETAIL/RENTAL ENTRY FROM LOADING	1 3/4"	3'-0"	7'-0"	SWING (PAIR)	F	STOREFRONT	PRE-FINISHED	ALUMINUM	PRE-FINISHED	ALUMINUM	0 HRS	9	SEE NOTE #5 & 6
19	BATHROOM @ STORAGE	1 3/4"	3'-0"	7'-0"	SWING	A	HOLLOW METAL	PAINT	HOLLOW METAL	PAINT	PAINT	0 HRS	10	SEE NOTE #2
20	BATHROOM @ OFFICE	1 3/4"	3'-0"	7'-0"	SWING	A	HOLLOW METAL	PAINT	HOLLOW METAL	PAINT	PAINT	0 HRS	10	SEE NOTE #4
21	BREAKROOM	1 3/4"	3'-0"	7'-0"	SWING	A	HOLLOW METAL	PAINT	HOLLOW METAL	PAINT	PAINT	0 HRS	11	SEE NOTE #4
22	SECURITY CLOSET	1 3/4"	3'-0"	7'-0"	SWING	C	HOLLOW METAL	PAINT	HOLLOW METAL	PAINT	PAINT	0 HRS	14	SEE NOTE #4
23	RETAIL/RENTAL TO STORAGE	1 3/4"	3'-0"	7'-0"	SWING	C	HOLLOW METAL	PAINT	HOLLOW METAL	PAINT	PAINT	0 HRS	15	SEE NOTE #2 & #4
24	ROOF ACCESS @ STAIR #2	1 3/4"	3'-0"	7'-0"	SWING	A	HOLLOW METAL	PAINT	HOLLOW METAL	PAINT	PAINT	0 HRS	13	SEE NOTE #5
25	LOADING DRIVEWAY (SECURITY GRILL)	-	20'-0"	14'-0"	MOTORIZED	-	HOLLOW METAL	PAINT	HOLLOW METAL	PAINT	PAINT	0 HRS	-	SEE NOTE #9
26	RETAIL OFFICE (SECURITY GRILL)	-	12'-8"	9'-0"	ROLL UP	-	ALUMINUM	PRE-FINISHED	N/A	N/A	N/A	0 HRS	-	SEE NOTE #8
27	LOADING FENCE EXIT GATE	-	3'-0"	6'-0"	SWING	-	ALUMINUM	PAINT	N/A	N/A	N/A	0 HR	-	SEE NOTE #5 & #11
28	ELEVATOR MACHINE ACCESS HATCH	-	30.5"	30.5"	SWING	A	METAL	PAINT	METAL	PAINT	PAINT	1.5 HRS	-	SEE NOTE #10
NOTES: 1. ALL INTERIOR STORAGE DOORS TO BE SW "UNCLE BOB YELLOW" 2. ALL PAINTED INTERIOR DOORS OPENING ON TO HALLWAYS TO BE PAINTED TO MATCH SW "UNCLE BOB YELLOW" 3. ALL INTERIOR FAUX STORAGE UNIT DOORS FACING STOREFRONT TO BE SW "UNCLE BOB YELLOW" 4. SEE OFFICE FINISH SCHEDULE ON A-400 FOR OFFICE DOOR COLORS 5. SEE EXTERIOR FINISH SCHEDULE ON A-200 FOR EXTERIOR DOOR COLORS. 6. ALL STOREFRONT DOORS TO HAVE BOTTOM RAIL AT 10" MIN. 7. SLIDING DOOR BY NABCO, SELECTED BY OWNER & APPROVED BY ARCHITECT. 8. SECURITY SHUTTER BY USP, SELECTED BY OWNER & APPROVED BY ARCHITECT. 9. SECURITY GRILL BY USP, SELECTED BY OWNER & APPROVED BY ARCHITECT. 10. ACUDOOR FB-5060 OR EQUAL W/ SELF LATCHING BOLT OPERATED BY KNOB/FLUSH KEY W/ RIM CYLINDER LOCK 11. FENCE DOOR BY FENCE COMPANY WITH EXIT HARDWARE														

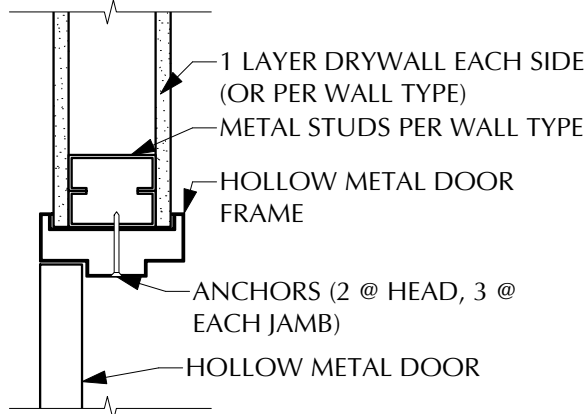
1. ALL HOLLOW METAL DOORS TO HAVE MAXIMUM ALLOWABLE U-FACTOR OF 0.61
2. MAX ALLOWABLE U-FACTOR OF ENTRANCE DOORS, INCLUDING FRAME, SHALL BE 0.85
3. MAXIMUM SOLAR HEAT GAIN COEFFICIENT OF ENTRANCE DOORS SHALL BE 0.40
4. AIR LEAKAGE SHALL NOT EXCEED 1.00 CFM/FT2 FOR GLAZED SWINGING ENTRANCE DOORS
5. ALL DOORS TO COMPLY WITH SECTION 404 OF THE 2010 DOJ ACCESSIBILITY STANDARDS
6. DOORS OPENING INTO THE PATH OF EGRESS CAN NOT REDUCE THE PATH TO LESS THAN HALF AND CANNOT PROJECT MORE THAN 7" WHEN FULLY OPEN PER NYC BC SEC 1005.2
7. ALL DOORS ARE DESIGNATED GENERICALLY, QUANTITIES AS INDICATED ON PLANS
8. CONTRACTOR SHALL VERIFY ALL OPENINGS, DOORS AND HARDWARE AND REPORT DISCREPANCIES IMMEDIATELY TO THE ARCHITECT
9. ALL EXTERIOR HOLLOW METAL DOORS & FRAMES SHALL BE GALVANIZED, INSULATED W/ POLYURETHANE, SEALED TOP RAIL, AND SHALL RECEIVE WEATHERSTRIPPING ON ALL SIDES.
10. ALL HM DOOR FRAMES IN MASONRY TO BE GALVANIZED & FILLED SOLID. IF REQUIRED RUN CONDUIT PRIOR TO FILLING.
11. INSTALL FULL HEIGHT DOUBLE STUDS @ EACH SIDE OF HOLLOW METAL DOOR
12. ALL KEYED CYLINDER LOCK SETS TO BE BEST CORE AND HAVE TEMPORARY CYLINDERS TO BE REPLACED BY OWNER AFTER CONSTRUCTION IS COMPLETE
CONTRACTOR TO PROVIDE FOLLOWING:
(1) GRAND MASTER KEY TO OPEN ALL DOORS ON SITE
(1) MASTER KEY FOR OFFICE (1) KEY TO UTILITY DOORS AND REMAINDER OF SITE DOORS
13. INTERIOR DOORS: SDI-100, GRADE III, HEAVY DUTY, MODEL 1, MIN. 18-GA. FACES
14. EXTERIOR DOORS: SDI-100, GRADE III, EXTRA HEAVY DUTY, MODEL 2, MIN. 16-GA. FACES+ GALV. PROVIDE SNAP IN-TOP CAPS ON ALL EXTERIOR DOORS
15. INTERIOR AND EXTERIOR DOORS FRAMES: SDI-100, GRADE III, EXTRA HEAVY DUTY, MODEL 2, MIN. 16 GA. FACES+ GALV.

1. ALL WINDOWS TO BE OF 1" LOW E GLASS UNLESS OTHERWISE NOTED
2. MAXIMUM ALLOWABLE U-VALUE OF GLAZING SYSTEM, INCLUDING FRAME, SHALL BE 0.38 FOR FIXED WINDOWS, AND 0.77 FOR ENTRANCE DOORS
3. GLAZING SYSTEM SHALL HAVE A MAXIMUM SOLAR HEAT GAIN COEFFICIENT (SHGC) OF 0.40
4. AIR LEAKAGE: PROVIDE FLASHING, WINDOW DAMS, EXPANDABLE FOAM SEALANT, AND CAULKING AT ROUGH OPENING / WINDOW FRAME JOINTS TO CREATE A CONTINUOUS AIR BARRIER WITH SURROUNDING WALL SYSTEM
5. AIR LEAKAGE SHALL NOT EXCEED 0.06 CFM/FT2 FOR STOREFRONT SYSTEMS
6. AIR LEAKAGE SHALL NOT EXCEED 1.00 CFM/FT2 FOR GLAZED SWINGING ENTRANCE DOORS
7. CONTRACTOR TO VERIFY ALL OPENING DIMENSIONS PRIOR TO FABRICATION OF STOREFRONT
8. BASIS OF DESIGN FOR STORE FRONT TO BE OLD CASTLE 3000XT
9. T- REPRESENTS AREA OF CODE REQUIRED TEMPERED OR SAFETY GLASS
10. S- REPRESENTS AREA OF SPANDREL GLASS. SPANDREL GLASS COLOR SHALL BE SOLAR HARMONY GREY, COATING APPLIED TO SURFACE

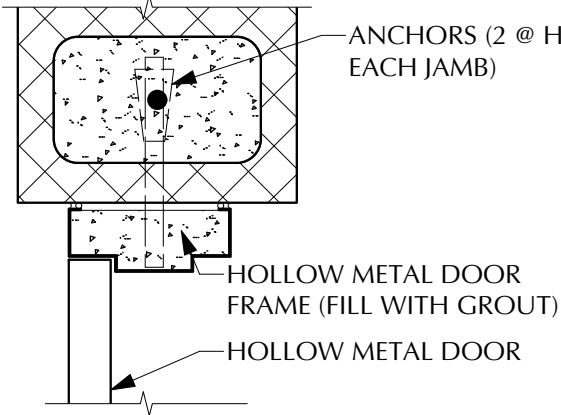


DOOR TYPES

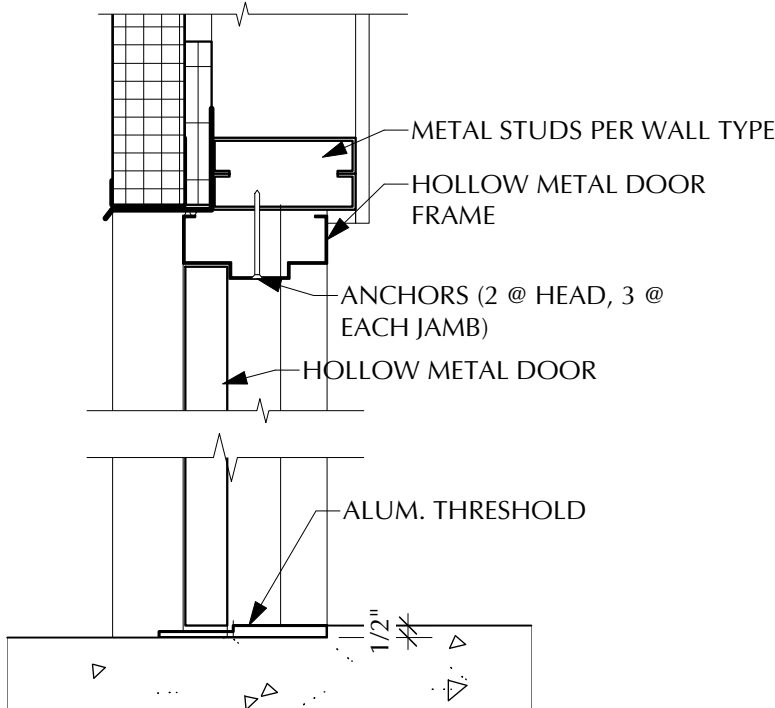
SCALE: 1/4" = 1'- 0"



1 DOOR IN STUDWALL
Scale: 1 1/2" = 1'-0"



2 DOOR IN BLOCK
Scale: 1 1/2" = 1'-0"



3 DOOR IN EXTERIOR WALL
Scale: 1 1/2" = 1'-0"

ISSUE DATE

1 Permit Set 3/23/20

REVISION DATE

1454 39th Street Self Storage

Safe N Lock
1454 39TH ST
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK

B30W

BUTZ•WILBERN LTD

Planning | Architecture
Interiors | Property Visioning

800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010

REGISTERED ARCHITECT
JAMES J. PARKINER
040544
STATE OF NEW YORK

© Butz•Wilbern Ltd. 2019

DOOR SCHEDULES

A-080.00

19 OF 48

19010

	ISSUE DATE	
1 Permit Set	3/23/20	
	REVISION DATE	
1454 39th Street Self Storage Safe N Lock 1454 39TH ST BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK		
B³⁰W BUTZ • WILBERN LTD Planning Architecture Interiors Property Visioning 800 W. Broad St., Suite 400 Falls Church, Virginia 22046 703-356-6771 fax: 356-7010		
 © Butz•Wilbern Ltd. 2019		

#	LOCATION	SIZE										REMARKS
		TH	NOM WIDTH	NOM HEIGHT	MANUFACTURER	MODEL	PROPOSED U-FACTOR		MAXIMUM U-FACTOR	PROPOSED S.H.G.C.	MAXIMUM S.H.G.C.	
A	RETAIL OFFICE	2"	16'-4"	10'-0"	OLDCASTLE	SERIES-3000-XT	.32 U	BETTER THAN COMCHECK	.38 U	0.246	0.40	SEE NOTE # 7 & #8
B	RETAIL OFFICE	2"	12'-8"	10'-0"	OLDCASTLE	SERIES-3000-XT	.32 U	BETTER THAN COMCHECK	.38 U	0.246	0.40	SEE NOTE # 7 & #8
C	RETAIL OFFICE	2"	7'-0"	10'-0"	OLDCASTLE	SERIES-3000-XT	.32 U	BETTER THAN COMCHECK	.38 U	0.246	0.40	SEE NOTE # 7
D	2ND & 3RD FLR DISPLAY AREA	2"	9'-3"	10'-0"	OLDCASTLE	SERIES-3000-XT	.32 U	BETTER THAN COMCHECK	.38 U	0.246	0.40	SEE NOTE # 7
E	2ND & 3RD FLR DISPLAY AREA	2"	4'-8 1/2"	10'-0"	OLDCASTLE	SERIES-TCR250	.32 U	BETTER THAN COMCHECK	.38 U	0.246	0.40	SEE NOTE # 7

NOTES:

1. STOREFRONT GLAZING @ RETAIL OFFICE FRONT ELEVATION ONLY TO BE PROVIDED WITH SECURITY GRILLES, B.O.D. - UNITED STEEL PRODUCTS ROLLING GRILLE 150 SERIES

2. MAXIMUM ALLOWABLE U-VALUE OF GLAZING SYSTEM, INCLUDING FRAME, SHALL BE 0.38 FOR FIXED WINDOWS, AND 0.77 FOR ENTRANCE DOORS

3. MAXIMUM ALLOWABLE U-VALUE OF OPAQUE DOORS SHALL BE 0.61

4. GLAZING SYSTEM SHALL HAVE A MAXIMUM SOLAR HEAT GAIN COEFFICIENT (SHGC) OF 0.40

5. AIR LEAKAGE: PROVIDE FLASHING, WINDOW DAMS, EXPANDABLE FOAM SEALANT, AND CAULKING AT ROUGH OPENING / WINDOW FRAME JOINTS TO CREATE A CONTINUOUS AIR BARRIER WITH SURROUNDING WALL SYSTEM

6. AIR LEAKAGE SHALL NOT EXCEED 0.20 CFM/FT² FOR SLIDING & SWINGING DOORS

7. AIR LEAKAGE SHALL NOT EXCEED 0.06 CFM/FT² FOR STOREFRONT SYSTEMS

8. AIR LEAKAGE SHALL NOT EXCEED 1.00 CFM/FT² FOR GLAZED SWINGING ENTRANCE DOORS

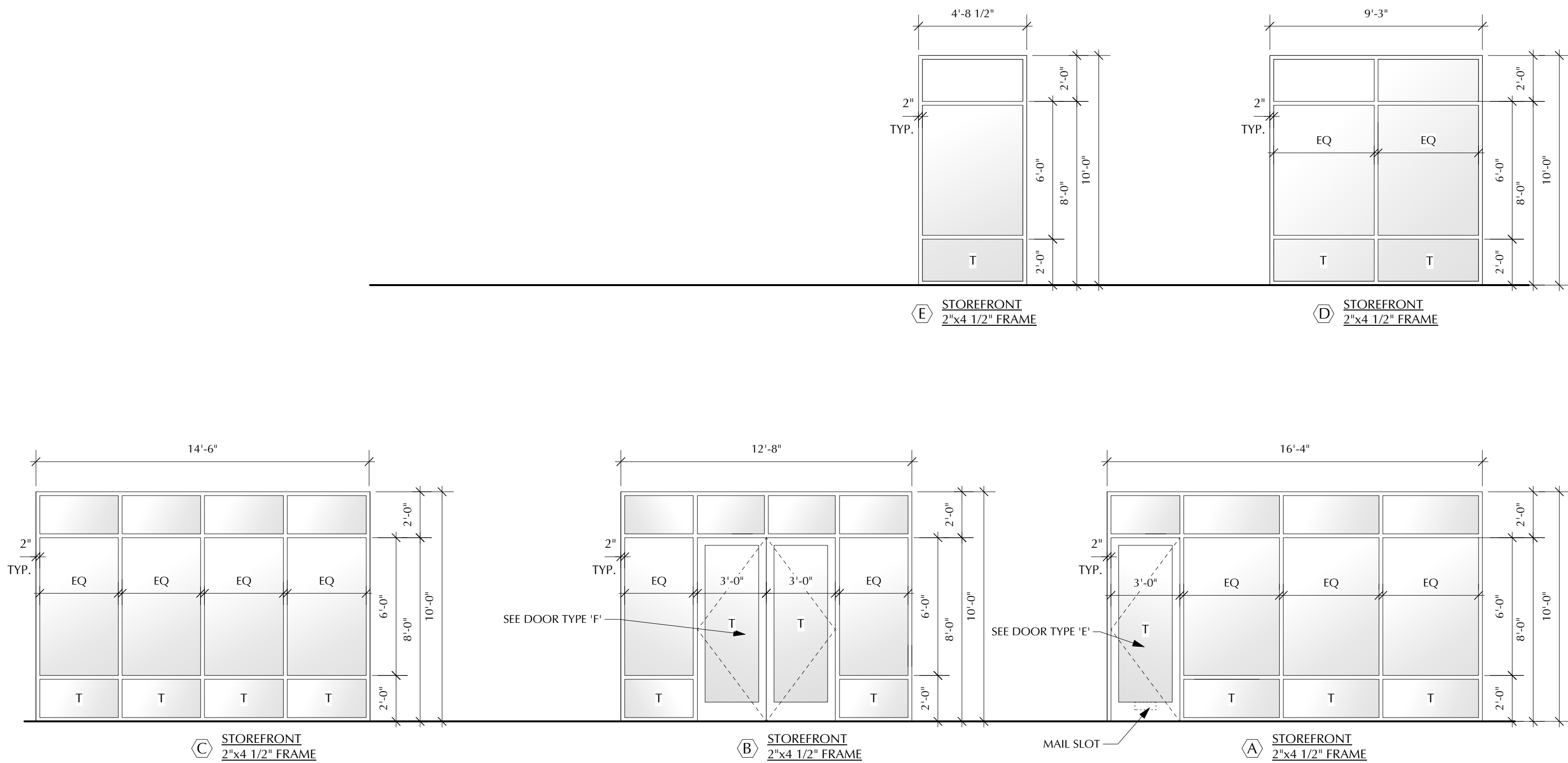
9. CONTRACTOR TO VERIFY ALL OPENING DIMENSIONS PRIOR TO FABRICATION

10. BASIS OF DESIGN FOR STORE FRONT TO BE OLD CASTLE 3000XT & TCR-250

11. CONTRACTOR TO PROVIDE SAFETY OR TEMPERED GLASS AT LOCATIONS AS REQUIRED PER LOCAL CODES

12. S - REPRESENTS AREA OF SPANDREL GLASS. PROVIDE HEAT STRENGTHENED GLASS AND VENTING AT SPANDREL LOCATIONS. COLOR: HARMONY GRAY

1. ALL WINDOWS TO BE OF 1" LOW E GLASS UNLESS OTHERWISE NOTED
2. MAXIMUM ALLOWABLE U-VALUE OF GLAZING SYSTEM, INCLUDING FRAME, SHALL BE 0.38 FOR FIXED WINDOWS, AND 0.77 FOR ENTRANCE DOORS
3. GLAZING SYSTEM SHALL HAVE A MAXIMUM SOLAR HEAT GAIN COEFFICIENT (SHGC) OF 0.40
4. AIR LEAKAGE: PROVIDE FLASHING, WINDOW DAMS, EXPANDABLE FOAM SEALANT, AND CAULKING AT ROUGH OPENING / WINDOW FRAME JOINTS TO CREATE A CONTINUOUS AIR BARRIER WITH SURROUNDING WALL SYSTEM
5. AIR LEAKAGE SHALL NOT EXCEED 0.06 CFM/F² FOR STOREFRONT SYSTEMS
6. AIR LEAKAGE SHALL NOT EXCEED 1.00 CFM/F² FOR GLAZED SWINGING ENTRANCE DOORS
7. CONTRACTOR TO VERIFY ALL OPENING DIMENSIONS PRIOR TO FABRICATION OF STOREFRONT
8. BASIS OF DESIGN FOR STORE FRONT TO BE OLD CASTLE 3000KT
9. T- REPRESENTS AREA OF CODE REQUIRED TEMPERED OR SAFETY GLASS
10. S- REPRESENTS AREA OF SPANDREL GLASS. SPANDREL GLASS COLOR SHALL BE SOLAR HARMONY GREY, COATING APPLIED TO SURFACE



STOREFRONT B.O.D.: OLD CASTLE 3000XT
TYPICAL: Include All Flashing, End Dams & Weeps.

WINDOW TYPES

ISSUE DATE

1 Permit Set 3/23/20
2 PAA 11/22/21

REVISION DATE

4 RF1016 11/3/21

1454 39th Street Self Storage

Safe N Lock
1454 39TH ST
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK



Planning | Architecture
Interiors | Property Visioning
800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010

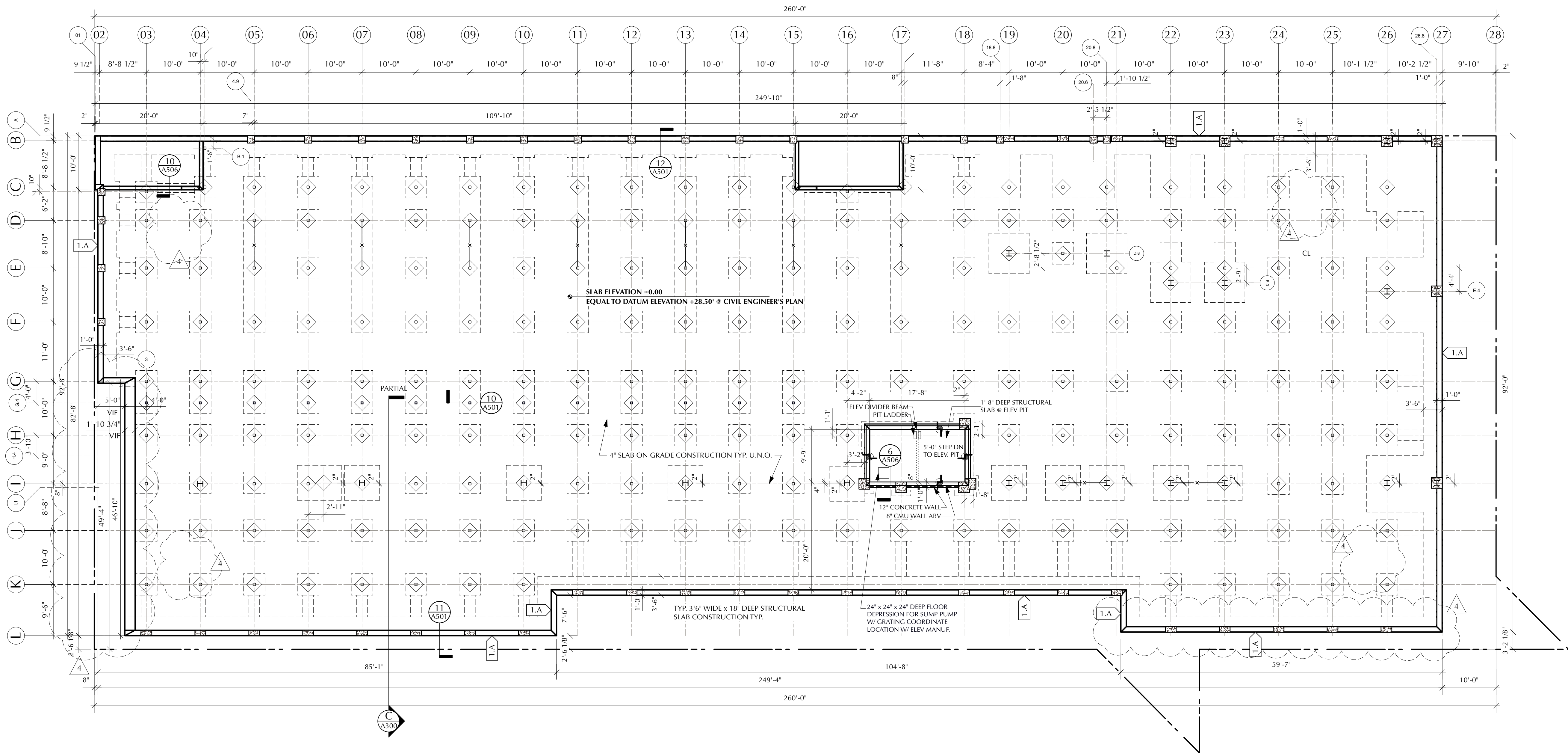


Foundation &
SubCellar Slab Plan

A-097.01

21 OF 49

19010



1 FOUNDATION & SUBCELLAR SLAB PLAN

A097 Scale: 3/32" = 1'-0"

NOTE:
SEE FO-098.00 FOR FOOTING & PIER SIZES, REINFORCING, CJ LOCATIONS & COLUMN SIZES

BASE PLATE NOTES:
1) COLUMN BASE PLATES WILL BE ON TOP OF FOOTINGS, 8" BELOW SUBCELLAR SLAB
SEE STRUCTURAL DETAILS FOR SIZE AND BOLT LOCATIONS

ISSUE DATE	
1 Permit Set	3/23/20
2 PAA	11/22/21
REVISION DATE	
2 RF1001/002	12/22/20
4 RF1016	11/3/21

1454 39th Street Self Storage

Safe N Lock
1454 39TH ST
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK

BW
BUTZ•WILBERN LTD

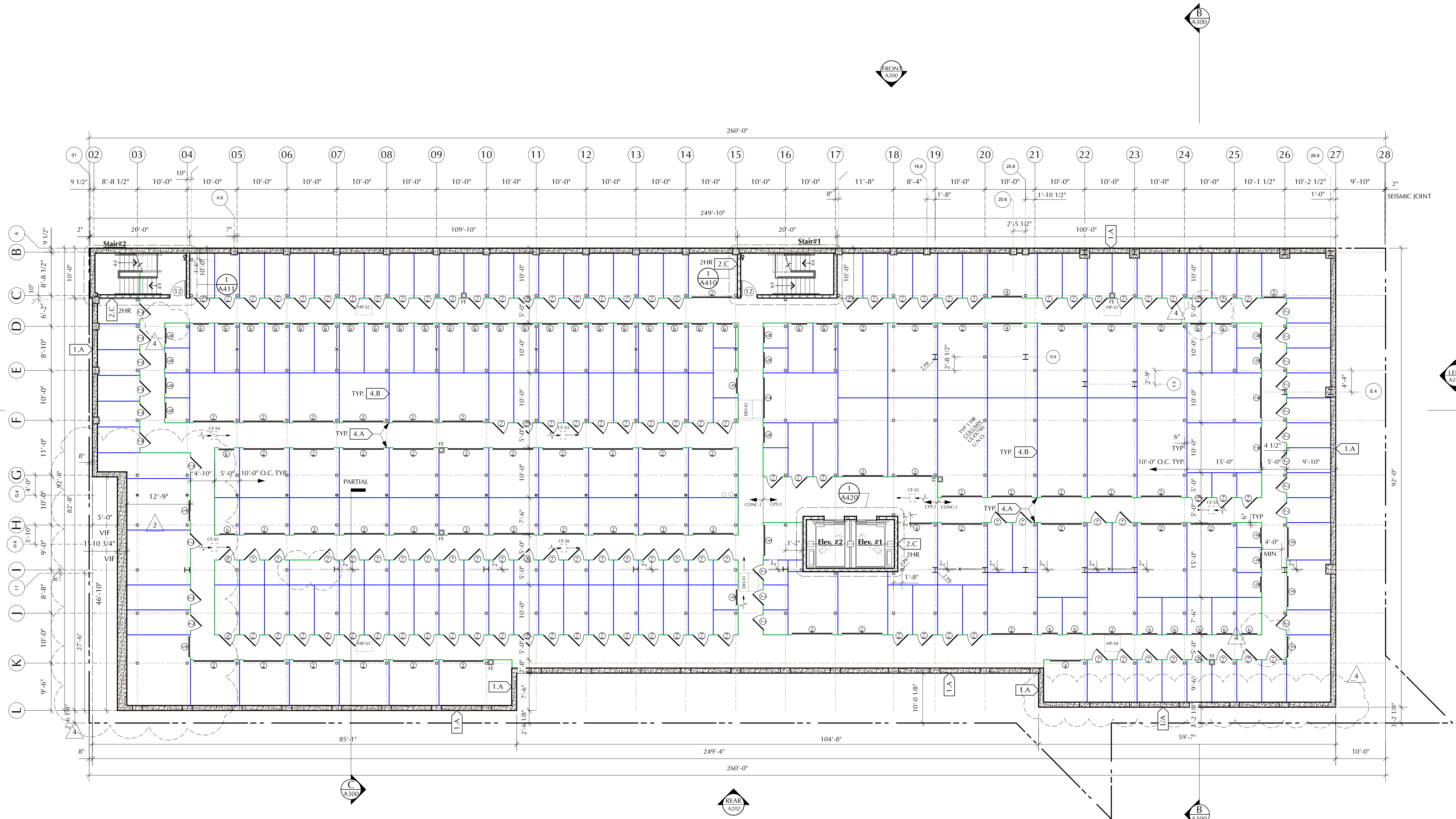
Planning | Architecture
Interiors | Property Visioning

800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010



SUBCELLAR
PLAN

A-098.01



39TH ST SELF STORAGE STORAGE UNIT COUNT AND UNIT AREA CALCULATIONS- 02/04/2020												
LEVELS	Locker	5X5	+22 SF	+33 SF	+44 SF	+66 SF	+88 SF	+110 SF	+132 SF	+176 SF	+220 SF	+264 SF
		5X5	5X7.5	5X10	7.5X10	10X10	10X12.5	10X15	10X20	10X25	10X30	
Sub Cellar	0	50	10	129	12	29	8	16	5	0	0	259
Cellar	0	50	10	139	12	29	8	11	0	5	0	264
1st Flr	59	1	0	1	0	0	0	2	15	8	2	88
2nd Flr	215	19	2	16	10	17	1	37	12	0	1	330
3rd Flr	280	55	45	78	28	20	1	1	0	0	0	508
4th Flr	263	60	39	85	24	17	0	1	0	0	0	489
TOTAL	817	235	106	448	86	112	18	68	32	13	3	1938
AREA	20,425 SF	5,875 SF	3,975 SF	22,400 SF	6,450 SF	11,200 SF	2,250 SF	10,200 SF	6,400 SF	3,250 SF	900 SF	93,325 SF



1 SUBCELLAR PLAN

A098Scale: 3/32" = 1'-0"

GRAPHIC WALL SYMBOLS:

- NON-BEARING PARTITIONS - STORAGE UNIT DIVIDER
- CORRIDOR PARTITIONS (HEIGHT VARIES-SEE A404)
- LOCKER UNIT ABOVE (8FT AFF)
- ACCESSIBLE UNIT
- FIRE EXTINGUISHER
- CROSS BRACING LOCATION
- DIAMOND PLATE WAINSCOT (48" AFF)

ISSUE DATE	
1 Permit Set	3/23/20
2 PAA	11/22/21

REVISION DATE	
1 RF1 001	6/01/20
2 RF1 001/002	12/22/20
3 RF1 004	3/3/21
4 RF1 016	11/3/21

1454 39th Street Self Storage

Safe N Lock
1454 39TH ST
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK

BW
BUTZ•WILBERN LTD

Planning | Architecture
Interiors | Property Visioning

800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010



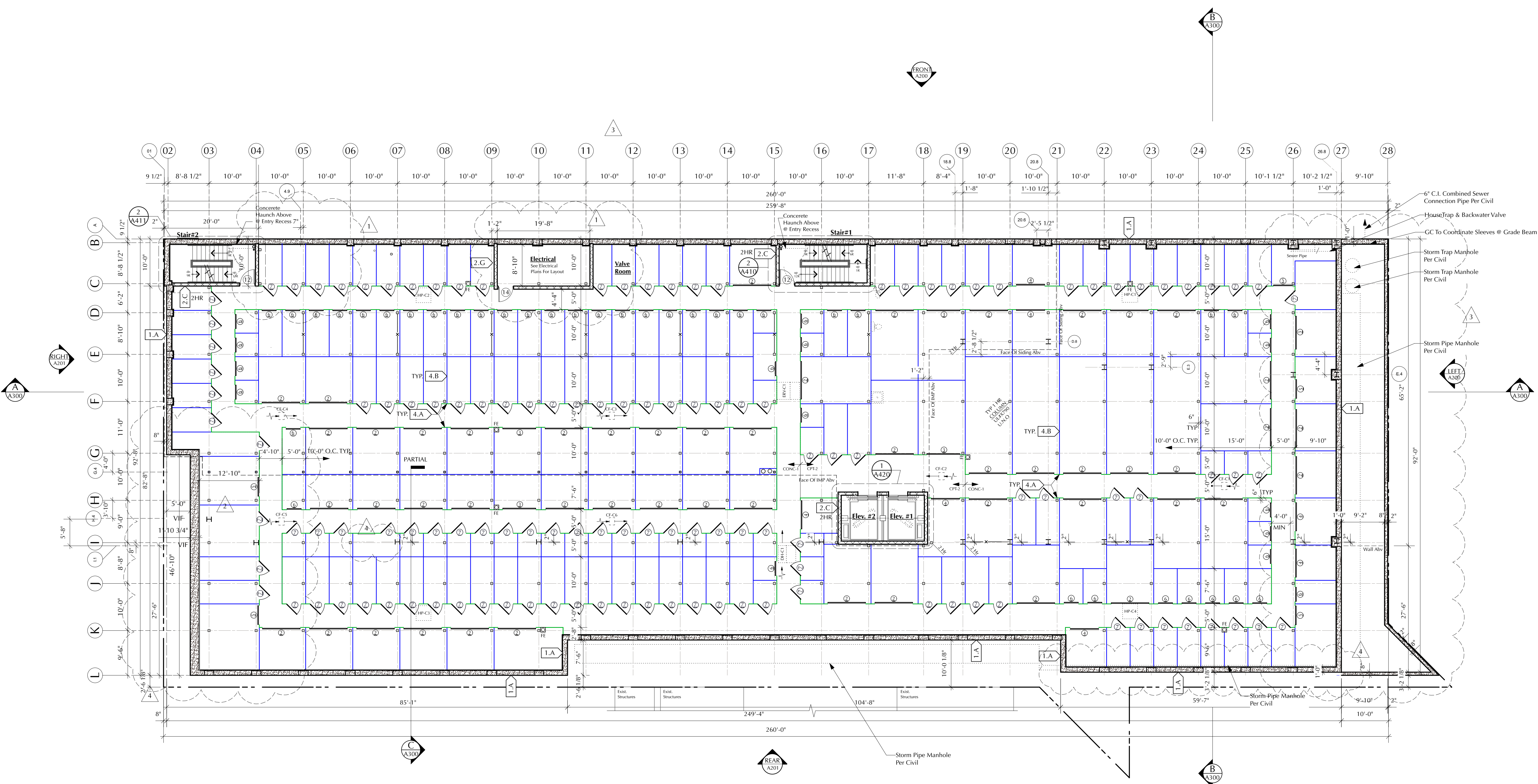
CELLAR
PLAN

A-099.01

Shabnam Shirinpoor

Buildings

APPROVED
Under Direction and Seal
AMENDED APPLICATION
Date: 04/07/2022
NYC Development Hub



39TH ST SELF STORAGE STORAGE UNIT COUNT AND UNIT AREA CALCULATIONS- 02/04/2020											
LEVELS	Locker	5X5	+22 SF	+33 SF	+44 SF	+66 SF	+88 SF	+110 SF	+132 SF	+176 SF	+220 SF
		5X5	5X7.5	5X10	7.5X10	10X10	10X12.5	10X15	10X20	10X25	10X30
Sub Cellar	0	50	10	129	12	29	8	16	5	0	0
Cellar	0	50	10	139	12	29	8	11	0	5	0
1st Flr	59	1	0	1	0	0	0	2	15	8	2
2nd Flr	215	19	2	16	10	17	1	37	12	0	1
3rd Flr	280	55	45	78	28	20	1	1	0	0	0
4th Flr	263	60	39	85	24	17	0	1	0	0	0
TOTAL	817	235	106	448	86	112	18	68	32	13	3
AREA	20,425 SF	5,875 SF	3,975 SF	22,400 SF	6,450 SF	11,200 SF	2,250 SF	10,200 SF	6,400 SF	3,250 SF	900 SF

1 CELLAR PLAN
A099 Scale: 3/32" = 1'-0"

GRAPHIC WALL SYMBOLS:

NON-BEARING PARTITIONS - STORAGE UNIT DIVIDER

CORRIDOR PARTITIONS (HEIGHT VARIES-SEE A404)

LOCKER UNIT ABOVE (8FT AFF)

ACCESSIBLE UNIT

FIRE EXTINGUISHER

CROSS BRACING LOCATION

DIAMOND PLATE WAINSCOT (48" AFF)

ISSUE DATE

1 Permit Set 3/23/20
2 PAA 11/22/21

REVISION DATE

1 RF1 001 6/01/20
2 RF1 001/002 12/22/20
3 RF1 004 3/3/21
4 RF1 016 11/3/21

1454 39th Street Self Storage

Safe N Lock
1454 39TH ST
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK

BW

BUTZ•WILBERN LTD

Planning | Architecture
Interiors | Property Visioning

800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010

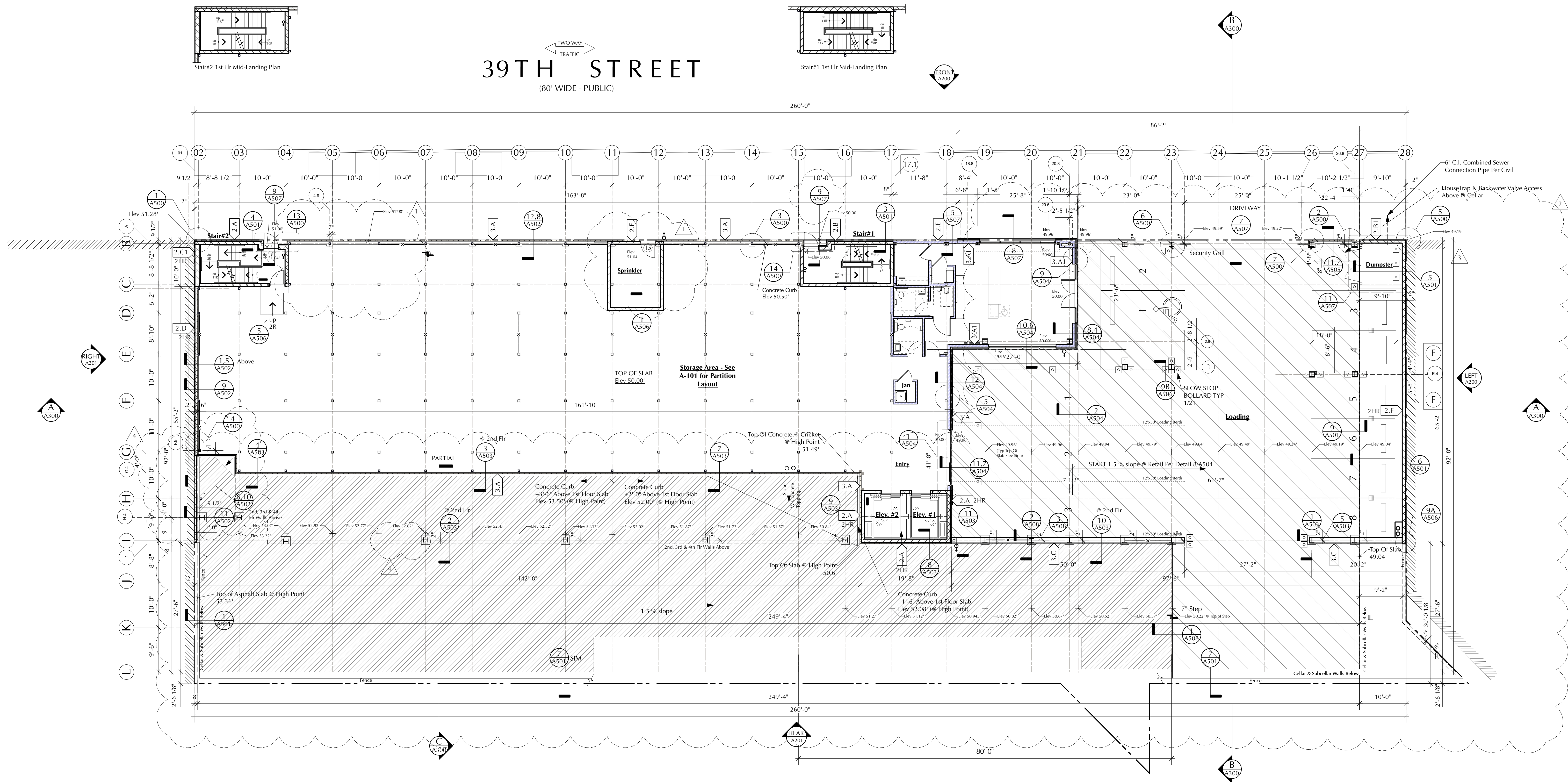


1ST FLOOR
SLAB PLAN

A-100.01

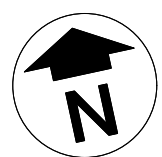
24 OF 49

19010



TYP. 1HR RATED LOADING FLOOR CONSTRUCTION UL# D902
• WATERPROOFING MEMBRANE
(Basis of Design ANTIROCK Traffic Coating System)
• 2" DEEP x 16 GA COMPOSITE VENTED DECK W/ 6" NORMAL WEIGHT CONC. TOPPING= TOTAL 8" CONC. DEPTH (REINFORCING PER STRUCTURAL)
• MIN R-30 INSULATION
(Basis of Design Rmax TSX-8500 Polyiso Insulation=R-30)
• LINER PANEL

TYP. 1HR RATED REAR ROOF CONSTRUCTION UL# D902
• WATERPROOFING MEMBRANE
(Basis of Design ANTIROCK Traffic Coating System)
• 2" DEEP x 18 GA COMPOSITE VENTED DECK W/ 4 1/2" NORMAL WEIGHT CONC. TOPPING= TOTAL 6 1/2" CONC. DEPTH (REINFORCING PER STRUCTURAL)
• MIN R-30 INSULATION
(Basis of Design Rmax TSX-8500 Polyiso Insulation=R-30)
• LINER PANEL



1 1ST FLOOR SLAB PLAN

A100Scale: 3/32" = 1'-0"

ELEVATION AT LOADING AND REAR ROOF ARE TO TOP OF ASPHALT. SEE DETAILS FOR CLARIFICATION.

ISSUE DATE

1 Permit Set 3/23/20
2 PAA 11/22/21

REVISION DATE

1 RF1 001 6/01/20
2 RF1 001/002 12/22/20
3 RF1 004 3/3/21
4 RF1 016 11/3/21

1454 39th Street Self Storage

Safe N Lock
1454 39TH ST
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK

BW

BUTZ•WILBERN LTD

Planning | Architecture
Interiors | Property Visioning

800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010

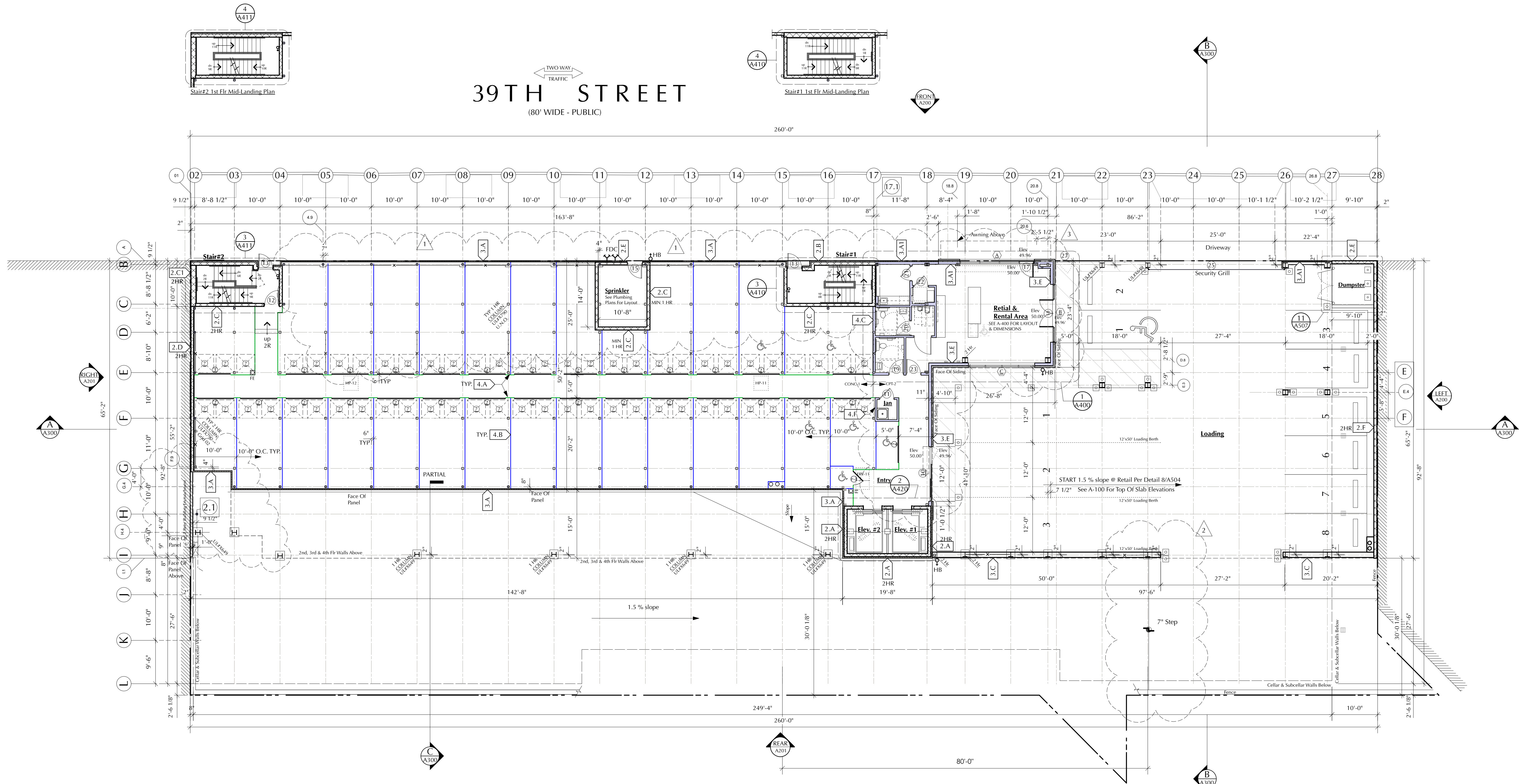


1ST FLOOR
PLAN

A-101.01

25 OF 49

19010



39TH ST SELF STORAGE STORAGE UNIT COUNT AND UNIT AREA CALCULATIONS- 02/04/2020												
LEVELS	5X5	+22 SF	+33 SF	+44 SF	+66 SF	+88 SF	+110 SF	+132 SF	+176 SF	+220 SF	+264 SF	TOTAL
Locker	5X5	5X7.5	5X10	7.5X10	10X10	10X12.5	10X15	10X20	10X25	10X30		
Sub Cellar	0	50	10	129	12	29	8	16	5	0	0	259
Cellar	0	50	10	139	12	29	8	11	0	5	0	264
1st Flr	59	1	0	1	0	0	0	2	15	8	2	88
2nd Flr	215	19	2	16	10	17	1	37	12	0	1	330
3rd Flr	200	55	45	78	28	20	1	1	0	0	0	508
4th Flr	263	60	39	85	24	17	0	1	0	0	0	489
TOTAL	817	235	106	448	86	112	18	68	32	13	3	1938
AREA	20,425 SF	5,875 SF	3,975 SF	22,400 SF	6,450 SF	11,200 SF	2,250 SF	10,200 SF	6,400 SF	3,250 SF	900 SF	93,325 SF



1 1ST FLOOR PLAN

A101 Scale: 3/32" = 1'-0"

SEE A-100 SLAB PLAN FOR DETAIL REFERENCES

GRAPHIC WALL SYMBOLS:

- NON-BEARING PARTITIONS - STORAGE UNIT DIVIDER
- CORRIDOR PARTITIONS (HEIGHT VARIES-SEE A404)
- 8 FT TALL LOCKER ABOVE 8 FT TALL UNIT
- ACCESSIBLE UNIT
- FIRE EXTINGUISHER
- CROSS BRACING LOCATION
- DIAMOND PLATE WAINSCOT (48" AFF)

ISSUE DATE	
1 Permit Set	3/23/20
2 PAA	11/22/21
REVISION DATE	
3 RF1 004	3/3/21
4 RF1 016	11/3/21

1454 39th Street Self Storage

Safe N Lock
1454 39TH ST
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK



BUTZ•WILBERN LTD

Planning | Architecture
Interiors | Property Visioning

800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010

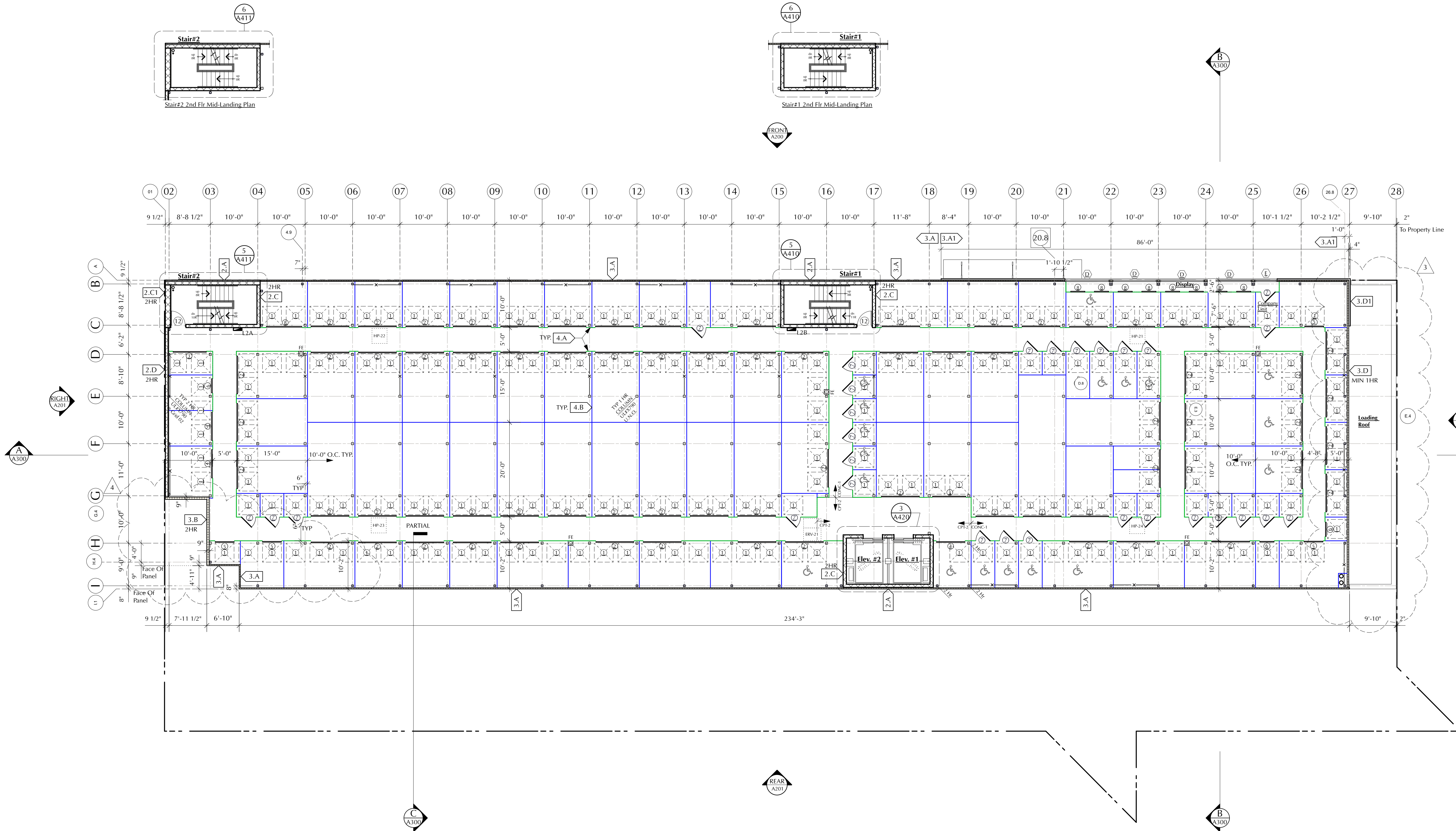


2ND FLOOR
PLAN

A-102.01

26 OF 49

19010



39TH ST SELF STORAGE STORAGE UNIT COUNT AND UNIT AREA CALCULATIONS- 02/04/2020												
LEVELS	Locker	5x5	+22 SF	+33 SF	+44 SF	+66 SF	+88 SF	+110 SF	+132 SF	+176 SF	+220 SF	+264 SF
		#	#	#	#	#	#	#	#	#	#	#
Sub Cellar	0	50	10	129	12	29	8	16	5	0	0	259
Cellar	0	50	10	139	12	29	8	11	0	5	0	264
1st Flr	59	1	0	1	0	0	0	2	15	8	2	88
2nd Flr	215	19	2	16	10	17	1	37	12	0	1	330
3rd Flr	280	55	45	78	28	20	1	1	0	0	0	508
4th Flr	263	60	39	85	24	17	0	1	0	0	0	489
TOTAL	817	235	106	448	86	112	18	68	32	13	3	1938
AREA	20,425 SF	5,875 SF	3,975 SF	22,400 SF	6,450 SF	11,200 SF	2,250 SF	10,200 SF	6,400 SF	3,250 SF	900 SF	93,325 SF



1 2ND FLOOR PLAN
A102Scale: 3/32" = 1'-0"

GRAPHIC WALL SYMBOLS:

- NON-BEARING PARTITIONS - STORAGE UNIT DIVIDER
- CORRIDOR PARTITIONS (HEIGHT VARIES-SEE A404)
- 4 FT TALL LOCKER ABOVE 8 FT TALL UNIT
- ACCESSIBLE UNIT
- FIRE EXTINGUISHER
- CROSS BRACING LOCATION
- DIAMOND PLATE WAINSCOT (48" AFF)

ISSUE DATE

1 Permit Set 3/23/20
2 PAA 11/22/21

REVISION DATE

3 RF1 004 3/3/21
4 RF1 016 11/3/21

1454 39th Street Self Storage

Safe N Lock
1454 39TH ST
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK



BUTZ•WILBERN LTD

Planning | Architecture
Interiors | Property Visioning

800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010

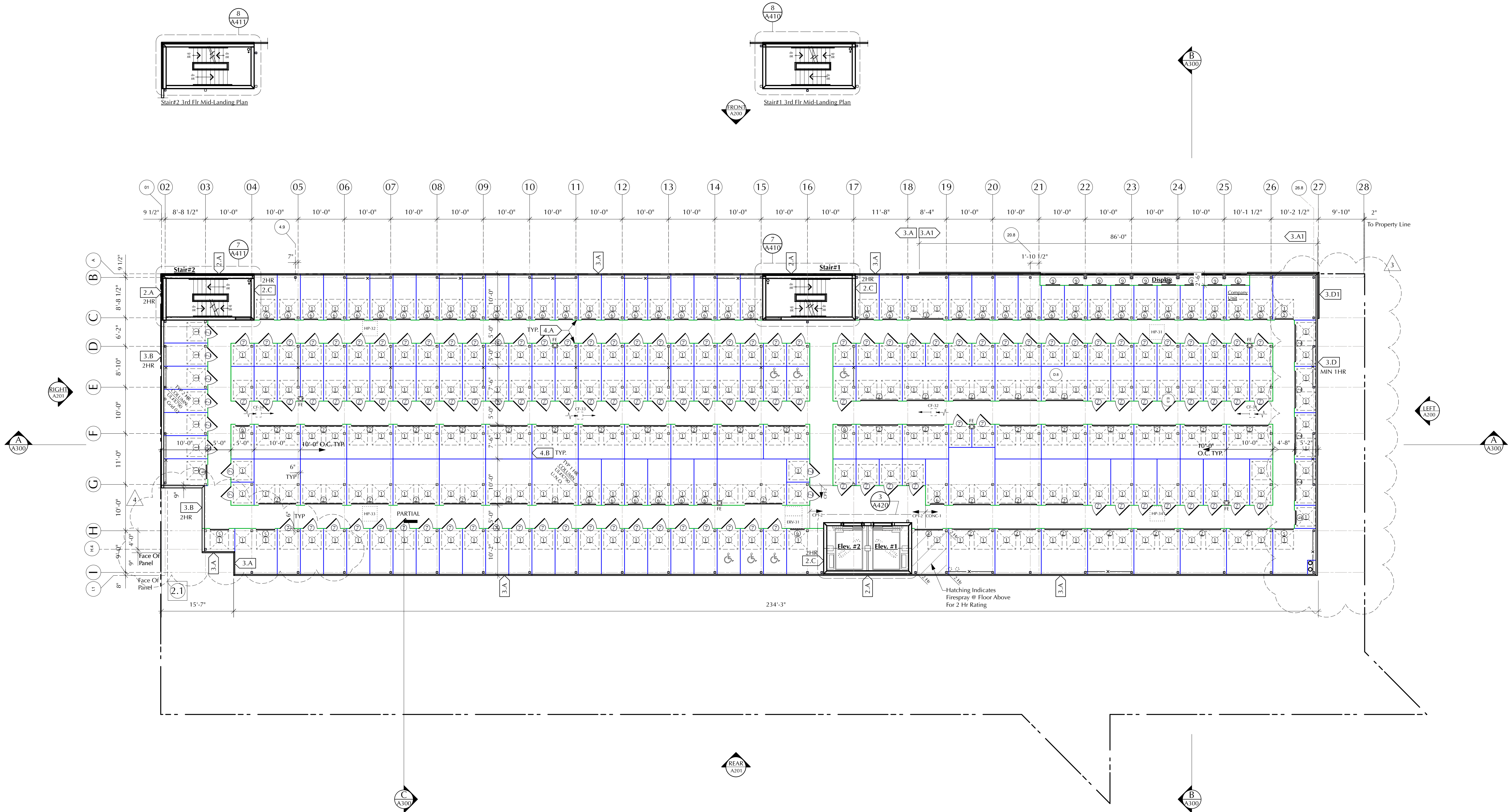


3RD FLOOR
PLAN

A-103.01

27 OF 49

19010



39TH ST SELF STORAGE STORAGE UNIT COUNT AND UNIT AREA CALCULATIONS- 02/04/2020												
LEVELS	Locker	5x5	+22 SF	+33 SF	+44 SF	+66 SF	+88 SF	+110 SF	+132 SF	+176 SF	+220 SF	+264 SF
	#	#	#	#	#	#	#	#	#	#	#	#
Sub Cellar	0	50	10	129	12	29	8	16	5	0	0	259
Cellar	0	50	10	139	12	29	8	11	0	5	0	264
1st Flr	59	1	0	1	0	0	0	2	15	8	2	88
2nd Flr	215	19	2	16	10	17	1	37	12	0	1	330
3rd Flr	280	55	45	78	28	20	1	1	0	0	0	508
4th Flr	263	60	39	85	24	17	0	1	0	0	0	489
TOTAL	817	235	106	448	86	112	18	68	32	13	3	1938
AREA	20,425 SF	5,875 SF	3,975 SF	22,400 SF	6,450 SF	11,200 SF	2,250 SF	10,200 SF	6,400 SF	3,250 SF	900 SF	93,325 SF



1 3RD FLOOR PLAN

A103Scale: 3/32" = 1'-0"

GRAPHIC WALL SYMBOLS:

- NON-BEARING PARTITIONS - STORAGE UNIT DIVIDER
- CORRIDOR PARTITIONS (HEIGHT VARIES-SEE A404)
- 4 FT TALL LOCKER ABOVE 8 FT TALL UNIT
- ACCESSIBLE UNIT
- FIRE EXTINGUISHER
- CROSS BRACING LOCATION
- DIAMOND PLATE WAINSCOT (48" AFF)

ISSUE DATE

1 Permit Set 3/23/20
2 PAA 11/22/21

REVISION DATE

3 RF1 004 3/3/21
4 RF1 016 11/3/21

1454 39th Street Self Storage

Safe N Lock
1454 39TH ST
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK



BUTZ•WILBERN LTD

Planning | Architecture
Interiors | Property Visioning

800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010

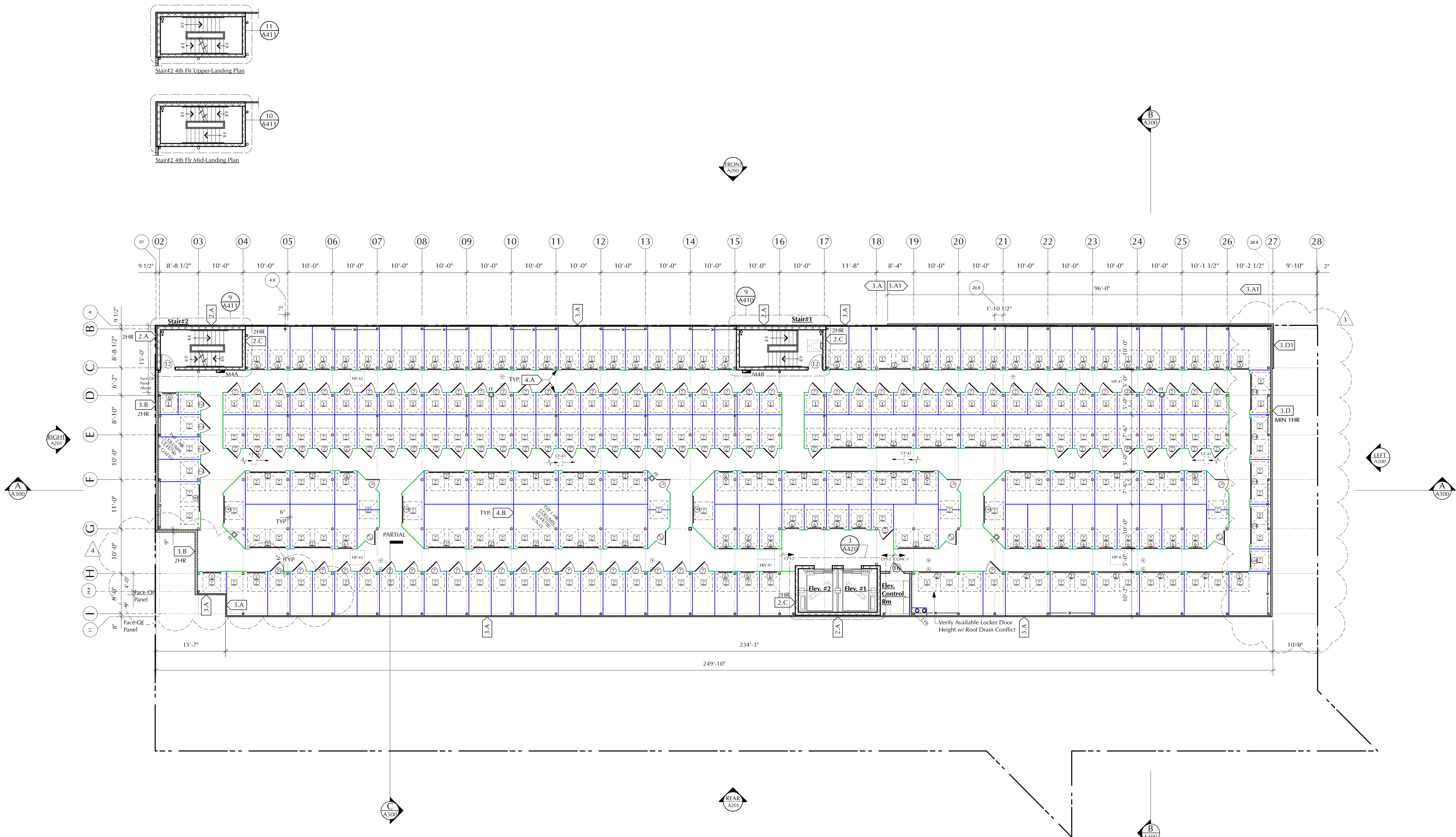


4TH FLOOR
PLAN

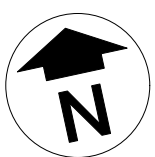
A-104.01

28 OF 49

19010



39TH ST SELF STORAGE STORAGE UNIT COUNT AND UNIT AREA CALCULATIONS- 02/04/2020												
LEVELS	Locker	5X5	+22 SF	+33 SF	+44 SF	+66 SF	+88 SF	+110 SF	+132 SF	+176 SF	+220 SF	+264 SF
	#	#	#	#	#	#	#	#	#	#	#	#
Sub Cellar	0	50	10	129	12	29	8	16	5	0	0	259
Cellar	0	50	10	139	12	29	8	11	0	5	0	264
1st Flr	59	1	0	1	0	0	0	2	15	8	2	88
2nd Flr	215	19	2	16	10	17	1	37	12	0	1	330
3rd Flr	280	55	45	78	28	20	1	1	0	0	0	508
4th Flr	263	60	39	85	24	17	0	1	0	0	0	489
TOTAL	817	235	106	448	86	112	18	68	32	13	3	1938
AREA	20,425 SF	5,875 SF	3,975 SF	22,400 SF	6,450 SF	11,200 SF	2,250 SF	10,200 SF	6,400 SF	3,250 SF	900 SF	93,325 SF



1 4TH FLOOR PLAN

A104Scale: 3/32" = 1'-0"

GRAPHIC WALL SYMBOLS:

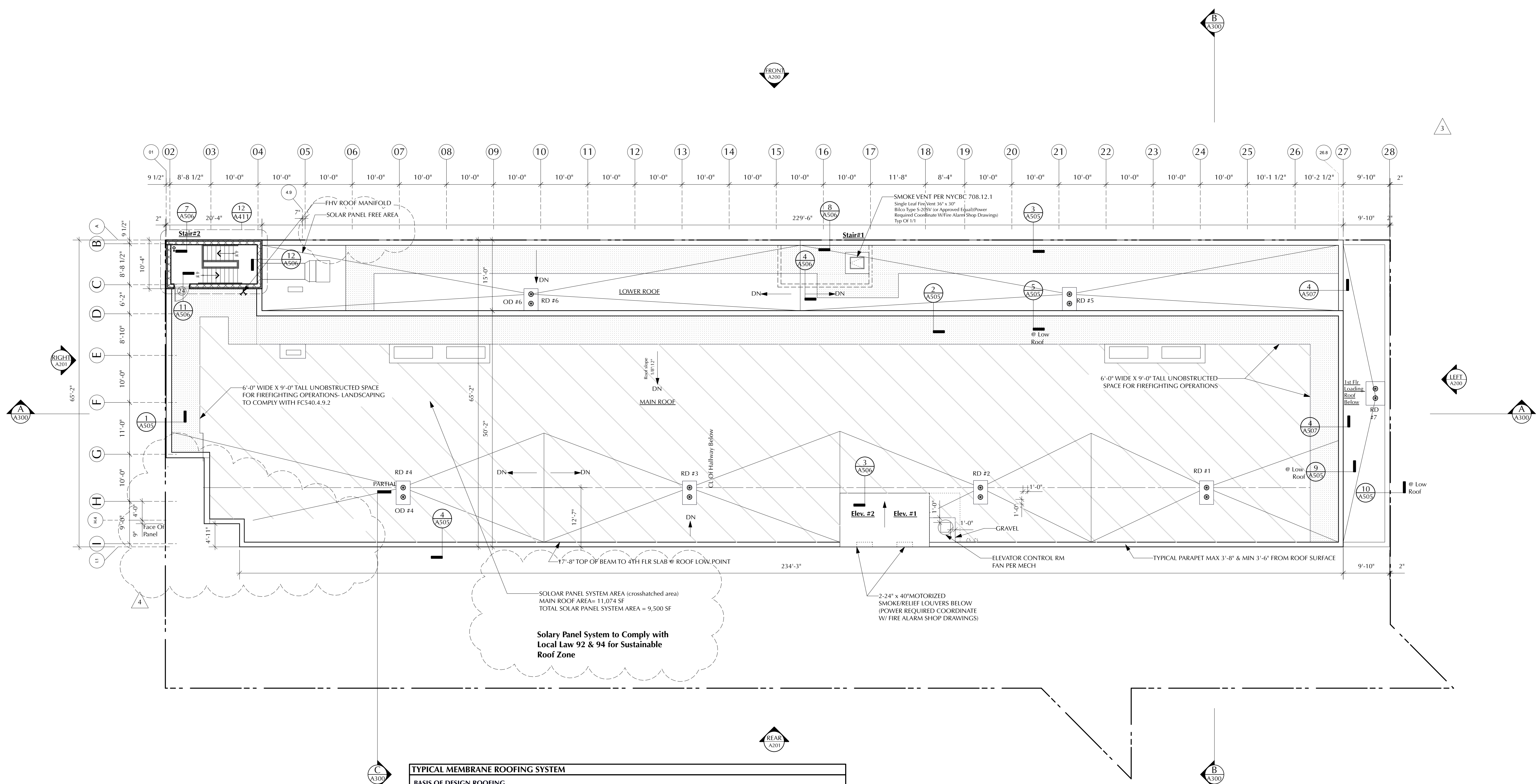
- NON-BEARING PARTITIONS - STORAGE UNIT DIVIDER
- CORRIDOR PARTITIONS (HEIGHT VARIES-SEE A404)
- 8 FT TALL LOCKER ABOVE 8 FT TALL UNIT
- ACCESSIBLE UNIT
- FIRE EXTINGUISHER
- CROSS BRACING LOCATION
- DIAMOND PLATE WAINSCOT (48" AFF)

1454 39th Street Self Storage

Safe N Lock
1454 39TH ST
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK

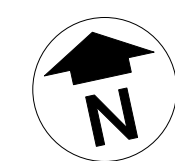


19010



BASIS OF DESIGN ROOFING.

- Calluse Sure-Weld TPO Reinforced Membrane Roof System over mechanically-attached ISO, proposed R-31 minimum SRI of 78.
 - Follow all Roof System Manufacturer's Details and Requirements for 20-year NDL Red Shield Warranty.
 - Note structurally-sloped deck; use tapered insulation only as necessary to provide positive drainage.
 - One course of X-Tred walkway pads to be placed at all roof entry points, leading to and around mechanical equipment.
 - Roof System is to be made completely watertight at the end of each workday. Stocked materials to be protected from inclement weather.
 - Coordinate in advance all penetrations through Roof System, before, during and after installation with Roofing Contractor.
 - Stage installation of Roof System to follow other trades. Prohibit access to the roof after Roof System installation is complete.
 - Typical drainage note: 6' x 6' non-penetrating pressure treated wood blocking under rooftop condensor units. Condensor units to have 2' clear between.
- Minimum Roof Covering Fire Classification [per IBC 1505.1.1]: **Class C**
 - TPO material standard roof covering shall comply with ASTM D4434, ASTM D6754, or ASTM D6878 (per IBC 1507.13.2)
 - Polyisocyanurate Insulation material standard shall comply with ASTM C1289, Type I or Type II (per IBC 1508.2)
 - Foam Plastic Insulation packages and/or containers of foam plastic insulation components delivered to the job site shall bear the label of an approved agency showing the manufacturer's name, product listing, product identification, and information sufficient to determine that the end use will comply with the code requirements (per IBC 2603.4)
 - The surface-burning characteristics of foam plastic insulation shall have a flame spread index of not more than 75 and a smoke-developed index of not more than 450 where tested in the maximum thickness intended for use in accordance with ASTM E 84 or UL 723 (per IBC 2603.3).
 - A thermal barrier is not required for foam plastic insulation that is part of a Class C roof-covering assembly, provided the assembly satisfactorily passes FM 4450 or UL 1256 (per IBC 2603.4.1.5)

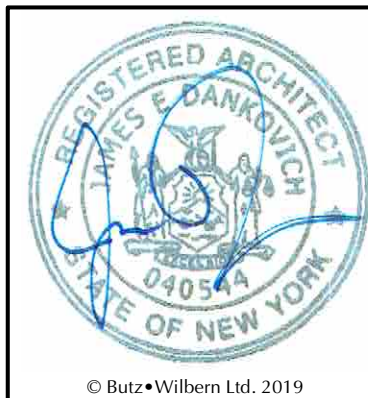

$$\overline{A105Scale: 3/32" = 1'-0"}$$

1454 39th Street Self Storage

Safe N Lock
1454 39TH ST
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK



Planning | Architecture
Interiors | Property Visioning
800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010



NORTH/EAST
ELEVATIONS

A-200.01

30 OF 49

19010

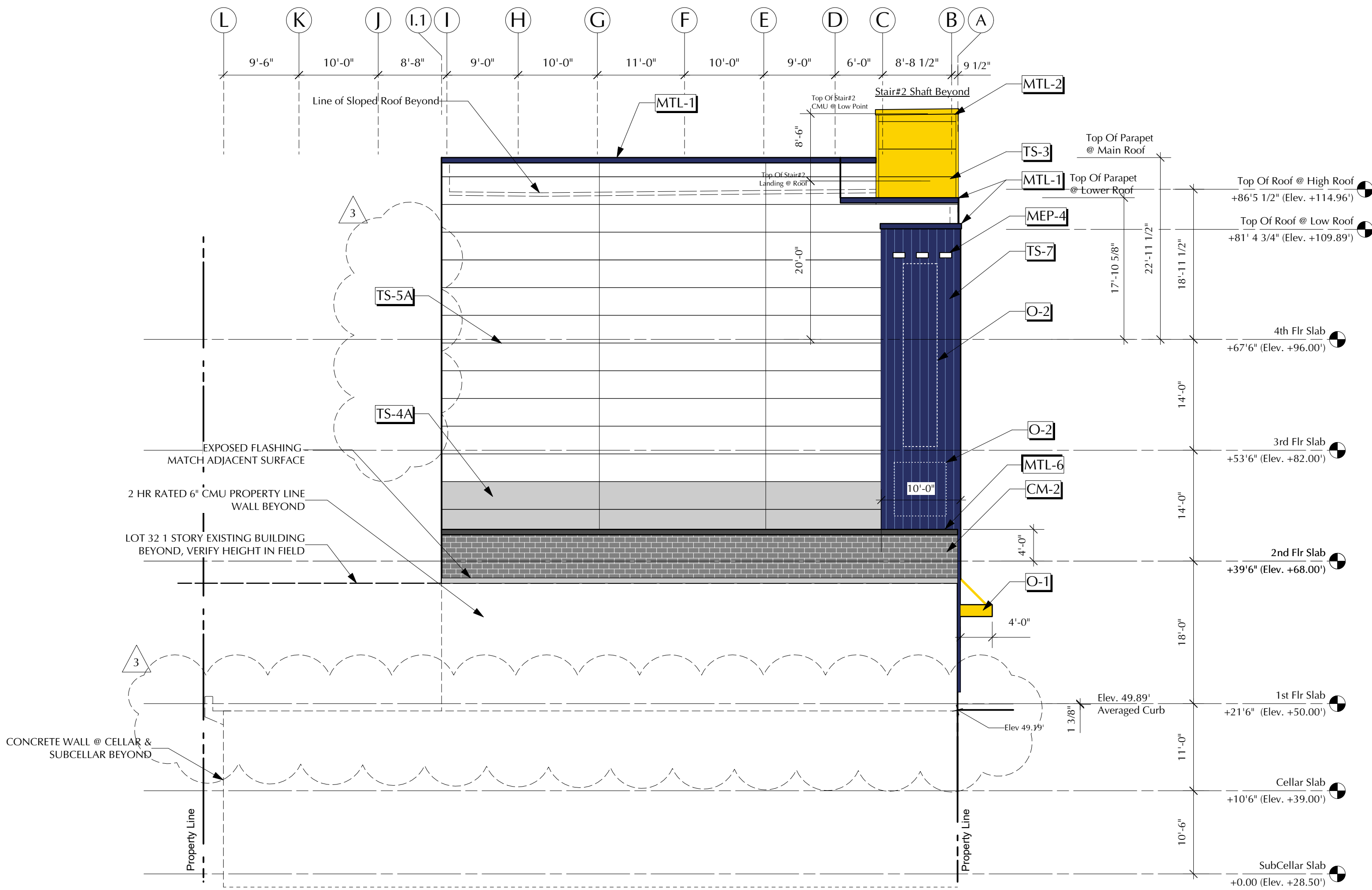


EXTERIOR MATERIAL SCHEDULE

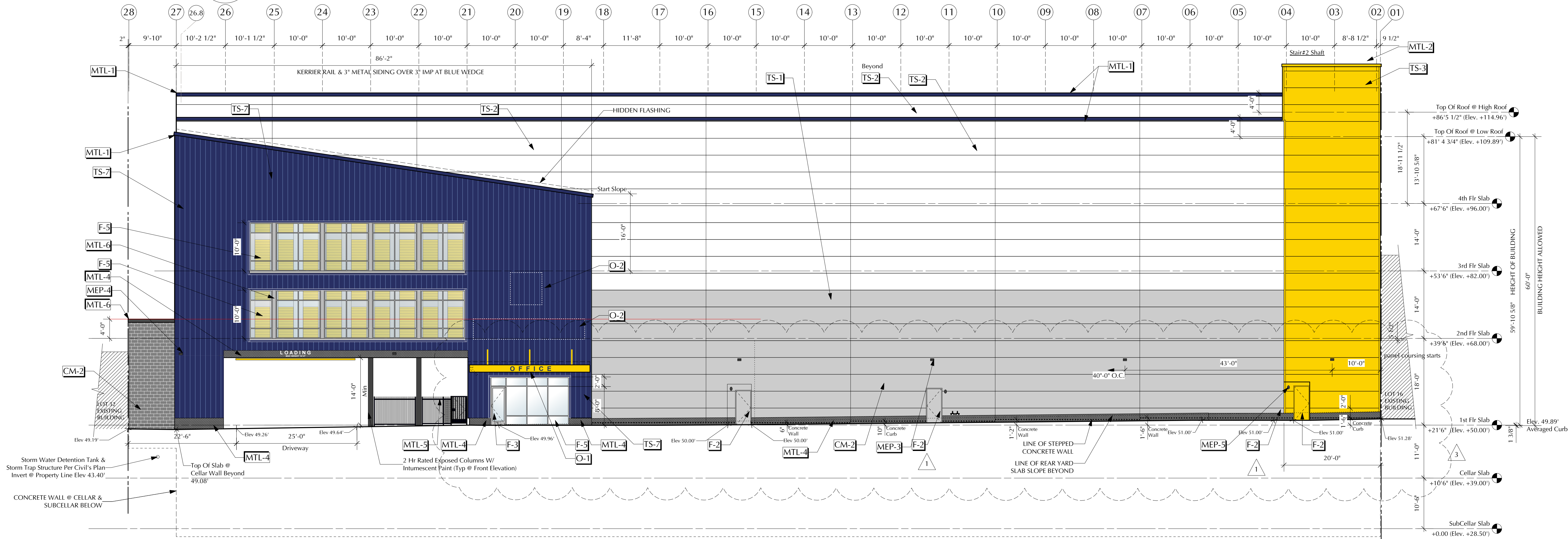
MATERIAL	NO.	ITEM	MANUFACTURER	FINISH	COLOR	REMARKS
CONCRETE /CMU	CM-1	CONC. FOUNDATION WALL	SHERWIN WILLIAMS	PAINT	TO MATCH ADJACENT SURFACE	• EXPOSED CONCRETE WALL TO BE HAND RUBBED SMOOTH PRIOR TO CURING OR PARGED PRIOR TO PAINTING • GROUT COLOR TO MATCH ADJACENT BLOCK
	CM-2	CMU-FIELD	BETCO SUPREME	SMOOTH FACE	GUNMETAL	
	C.J.	CONTROL JOINT	--	--	--	
METALS	MTL-1	METAL COPING	PAC CLAD	PRE-FINISHED	HONORABLE BLUE	
	MTL-2	METAL COPING	PAC CLAD	PRE-FINISHED	UNCLE BOB YELLOW	
	MTL-3	BREAK METAL	PAC CLAD	PRE-FINISHED	CLEAR ANODIZED	
	MTL-4	DIAMOND PLATE SILL	BENJAMIN MOORE	PAINT	BLACK SATIN - COLOR#2127-10	
	MTL-5	DECORATIVE FENCE	SHERWIN WILLIAMS	PAINT	SW 7069 IRON ORE	
	MTL-6	METAL COPING	PAC CLAD	PRE-FINISHED	MATCH CM-2 COLOR	
THERMAL SKIN	TS-1	INSULATED METAL PANEL	3" KINGSPAN / MBCI	PRE-FINISHED	STORMY MONDAY	• ALL PANEL JOINTS TO BE 3/8", SEE A-070 FOR FULL PANEL DETAILS
	TS-2	INSULATED METAL PANEL	3" KINGSPAN / MBCI	PRE-FINISHED	WHITE	
	TS-3	INSULATED METAL PANEL	3" KINGSPAN / MBCI	PRE-FINISHED	UNCLE BOB YELLOW	
	TS-4	INSULATED METAL PANEL	6" 2 HR. KINGSPAN / MBCI	PRE-FINISHED	STORMY MONDAY	
	TS-5	INSULATED METAL PANEL	6" 2 HR. KINGSPAN / MBCI	PRE-FINISHED	WHITE	
	TS-4A	INSULATED METAL PANEL	4" 1 HR. KINGSPAN / MBCI	PRE-FINISHED	STORMY MONDAY	
	TS-5A	INSULATED METAL PANEL	4" 1 HR. KINGSPAN / MBCI	PRE-FINISHED	WHITE	
FENESTRATION	F-1	SECURITY GRILL	USP	PRE-FINISHED	CLEAR ANODIZED	• DRIVEWAY
	F-2	HOLLOW METAL DOOR	MFR	PAINT	TO MATCH ADJACENT SURFACE	
	F-3	STOREFRONT ENTRY DOOR	OLD CASTLE 3000XT	PRE-FINISHED	ANODIZED ALUMINUM	
	F-4	SLIDING ENTRY DOOR	HORTON	PRE-FINISHED	ANODIZED ALUMINUM	
	F-5	STRFRNT WNDW ASSEMBLY	OLD CASTLE 3000XT	PRE-FINISHED	ANODIZED ALUMINUM	
	F-6					
PLUMBING MECHANICAL ELECTRICAL FEATURES	MEP-1	AIR INTAKE LOUVER	--	PRE-FINISHED	MATCH ADJACENT SURFACE	• NOTE #2 • CONFIRM LIGHTING FIXTURE COLORS ARE COORDINATED W/ LIGHTING SCHEDULES
	MEP-2	EXHAUST VENT	--	PRE-FINISHED	MATCH ADJACENT SURFACE	
	MEP-3	WALL PACK LIGHT	--	PRE-FINISHED	COLOR	
	MEP-4	WALL WASHER	--	PRE-FINISHED	COLOR	
	MEP-5	EGRESS LIGHT	--	PRE-FINISHED	COLOR	
	MEP-6					
OTHER	O-1	AWNING	--	PRE-FINISHED	UNCLE BOB YELLOW	• FUTURE SIGN BY OTHERS UNDER SPEARTE PERMIT. SIGN TO BE INTERNALLY ILLUMINATED. GC PROVIDE
	O-2	FUTURE BUILDING SIGN	--	--	--	
	O-3	FDC	--	--	--	
	O-4	FA BELL	--	--	--	

NOTES

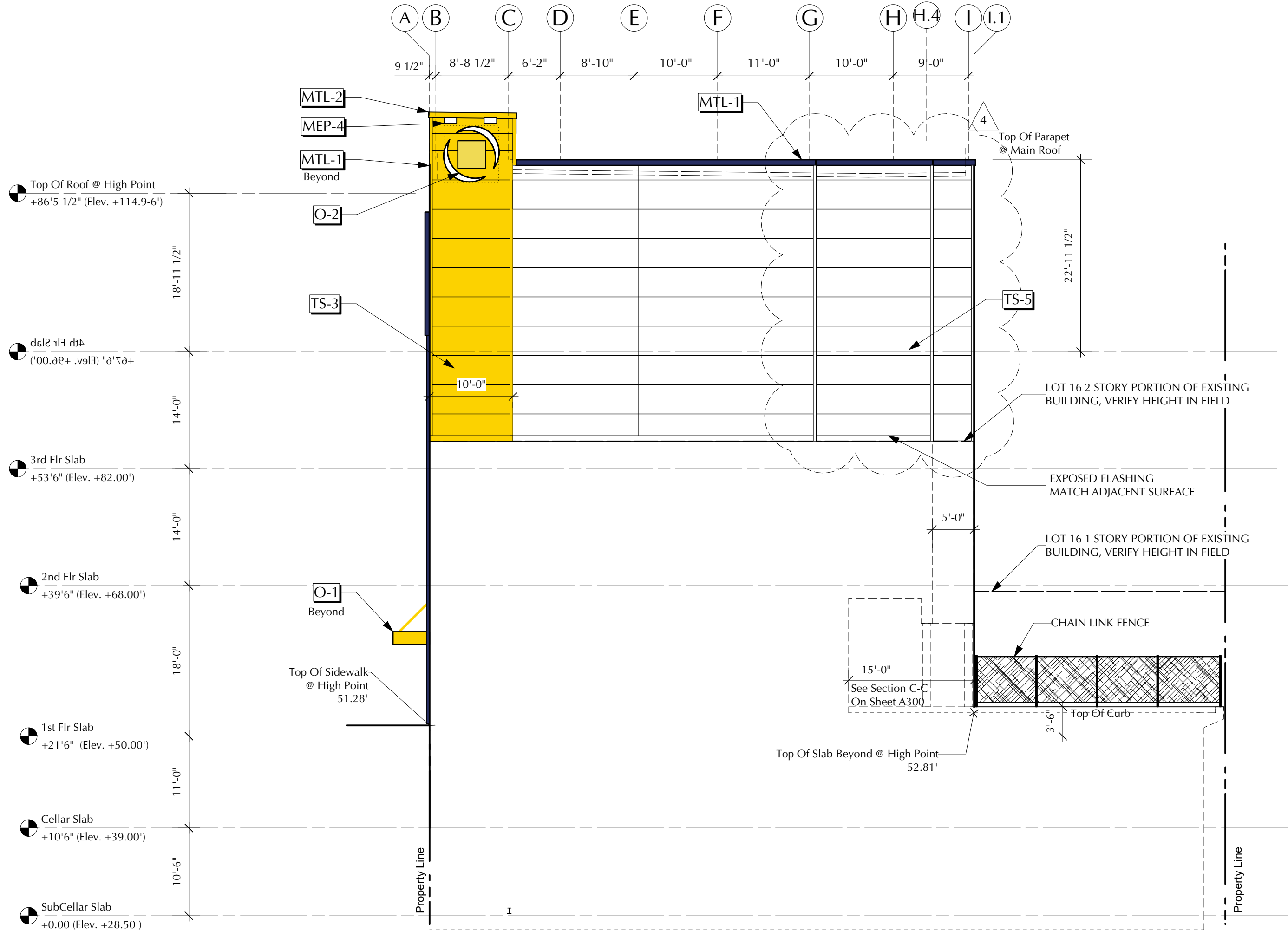
1. PAINTERS TO DO SAMPLES ON SITE TO BE APPROVED PRIOR TO COMMENCEMENT OF PAINTING
2. GC TO SUBMIT COLOR SAMPLES FOR APPROVAL
- 3.



2 Left Side (East) Elevation
A-200 Scale: 3/32" = 1'-0"

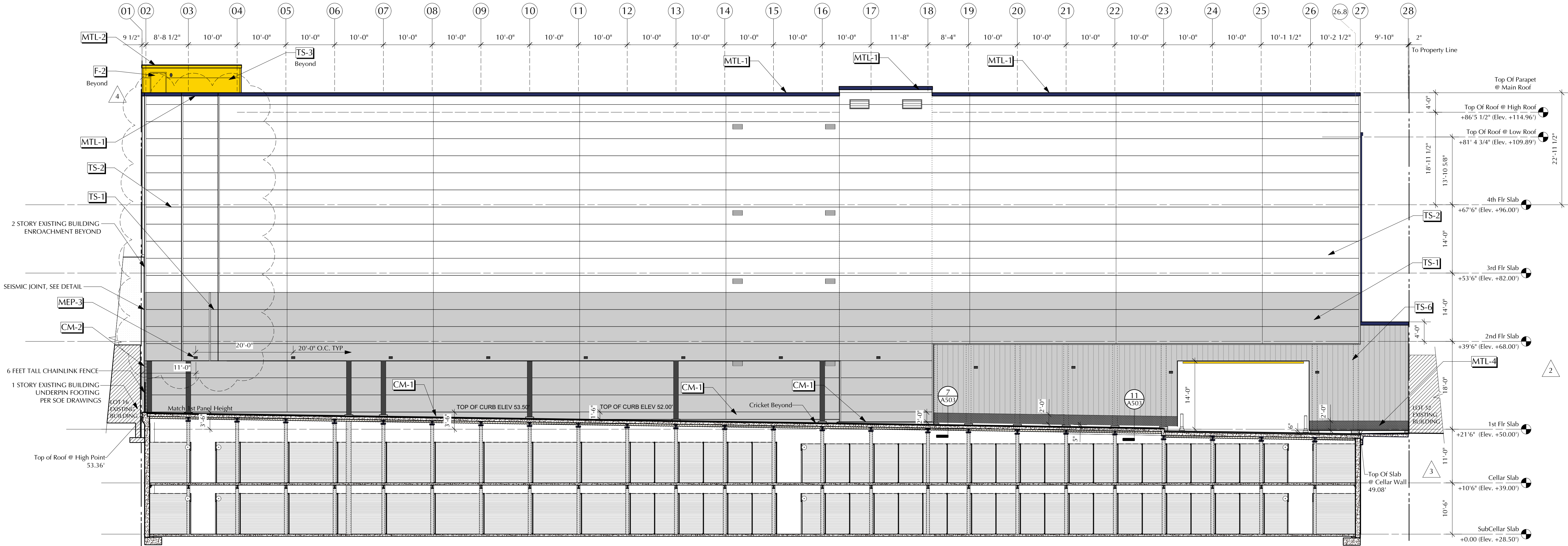


1 Front (North)-39th Street Elevation
A-200 Scale: 3/32" = 1'-0"



2 Right Side (West) Elevation
A-201 Scale: 3/32" = 1'-0"

EXTERIOR MATERIAL SCHEDULE						
MATERIAL	NO.	ITEM	MANUFACTURER	FINISH	COLOR	REMARKS
CONCRETE /CMU	CM-1	CONC. FOUNDATION WALL	SHERWIN WILLIAMS	PAINT	TO MATCH ADJACENT SURFACE	• EXPOSED CONCRETE WALL TO BE HAND RUBBED SMOOTH PRIOR TO CURING OR PARGED PRIOR TO PAINTING • GROUT COLOR TO MATCH ADJACENT BLOCK
	CM-2	CMU-FIELD	BETCO SUPREME	SMOOTH FACE	GUNMETAL	
	C.J.	CONTROL JOINT	--			
METALS	MTL-1	METAL COPING	PAC CLAD	PRE-FINISHED	HONORABLE BLUE	• ALL PANEL JOINTS TO BE 3/8", SEE A-070 FOR FULL PANEL DETAILS
	MTL-2	METAL COPING	PAC CLAD	PRE-FINISHED	UNCLE BOB YELLOW	
	MTL-3	BREAK METAL	PAC CLAD	PRE-FINISHED	CLEAR ANODIZED	
	MTL-4	DIAMOND PLATE SILL	BENJAMIN MOORE	PAINT	BLACK SATIN - COLOR#2127-10	
	MTL-5	DECORATIVE FENCE	SHERWIN WILLIAMS	PAINT	SW 7069 IRON ORE	
	MTL-6	METAL COPING	PAC CLAD	PRE-FINISHED	MATCH CM-2 COLOR	
THERMAL SKIN	TS-1	INSULATED METAL PANEL	3" KINGSPAN / MBCI	PRE-FINISHED	STORMY MONDAY	• ALL PANEL JOINTS TO BE 3/8", SEE A-070 FOR FULL PANEL DETAILS
	TS-2	INSULATED METAL PANEL	3" KINGSPAN / MBCI	PRE-FINISHED	WHITE	
	TS-3	INSULATED METAL PANEL	3" KINGSPAN / MBCI	PRE-FINISHED	UNCLE BOB YELLOW	
	TS-4	INSULATED METAL PANEL	6" 2 HR. KINGSPAN / MBCI	PRE-FINISHED	STORMY MONDAY	
	TS-5	INSULATED METAL PANEL	6" 2 HR. KINGSPAN / MBCI	PRE-FINISHED	WHITE	
	TS-4A	INSULATED METAL PANEL	4" 1 HR. KINGSPAN / MBCI	PRE-FINISHED	STORMY MONDAY	
	TS-5A	INSULATED METAL PANEL	4" 1 HR. KINGSPAN / MBCI	PRE-FINISHED	WHITE	
TS-6	METAL SIDING	T-2 / MS METAL SALES	PRE-FINISHED	STORMY MONDAY		
TS-7	KARRIER / METAL SIDING	T-23 . METAL SALES	PRE-FINISHED	HONORABLE BLUE		
FENESTRATION	F-1	SECURITY GRILL	USP	PRE-FINISHED	CLEAR ANODIZED	@ DRIVEWAY
	F-2	HOLLOW METAL DOOR	MFR	PAINT	TO MATCH ADJACENT SURFACE	
	F-3	STOREFRONT ENTRY DOOR	OLD CASTLE 3000XT	PRE-FINISHED	ANODIZED ALUMINUM	
	F-4	SLIDING ENTRY DOOR	HORTON	PRE-FINISHED	ANODIZED ALUMINUM	
	F-5	STRFRNT WNDW ASSEMBLY	OLD CASTLE 3000XT	PRE-FINISHED	ANODIZED ALUMINUM	
	F-6					
PLUMBING MECHANICAL ELECTRICAL FEATURES	MEP-1	AIR INTAKE LOUVER	--	PRE-FINISHED	MATCH ADJACENT SURFACE	• NOTE #2 • CONFIRM LIGHTING FIXTURE COLORS ARE COORDINATED W/ LIGHTING SCHEDULES
	MEP-2	EXHAUST VENT	--	PRE-FINISHED	MATCH ADJACENT SURFACE	
	MEP-3	WALL PACK LIGHT	--	PRE-FINISHED	COLOR	
	MEP-4	WALL WASHER	--	PRE-FINISHED	COLOR	
	MEP-5	EGRESS LIGHT	--	PRE-FINISHED	COLOR	
	MEP-6	---	---	---	---	
OTHER	O-1	AWNING	--	PRE-FINISHED	UNCLE BOB YELLOW	• FUTURE SIGN BY OTHERS UNDER SPEARTE PERMIT. SIGN TO BE INTERNALLY ILLUMINATED. GC PROVIDE
	O-2	FUTURE BUILDING SIGN	--	--	--	
	O-3	FDC	--	--	--	
	O-4	FA BELL	--	--	--	
NOTES						
1. PAINTERS TO DO SAMPLES ON SITE TO BE APPROVED PRIOR TO COMMENCEMENT OF PAINTING						
2. GC TO SUBMIT COLOR SAMPLES FOR APPROVAL						
3.						

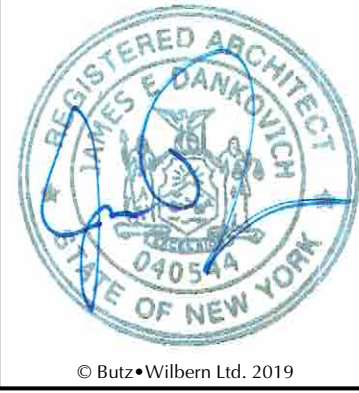


1 Rear (South) Elevation
A-201 Scale: 3/32" = 1'-0"

1454 39th Street Self Storage

Safe N Lock
1454 39TH ST
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK

B³⁰W
BUTZ+WILBERN LTD
Planning | Architecture
Interiors | Property Visioning
800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010



SOUTH/WEST
ELEVATIONS

A-201.01

ISSUE DATE		
1 Permit Set	3/23/20	
2 PAA	11/22/21	

REVISION DATE		
1 RFI 001/002	12/22/20	
3 RFI 004	3/3/21	

1454 39th Street Self Storage

Safe N Lock
1454 39TH ST
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK



Planning | Architecture
Interiors | Property Visioning

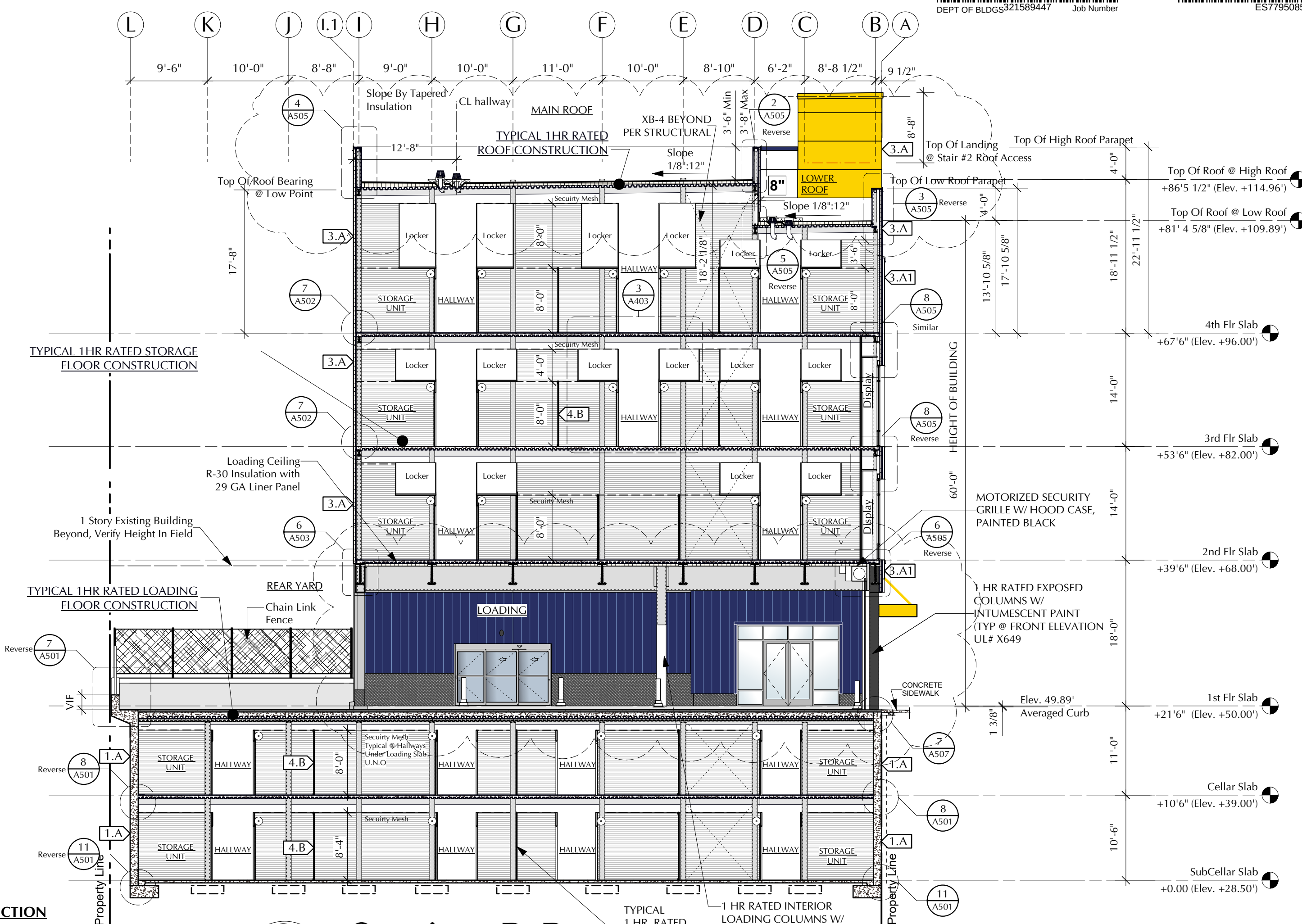
800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010



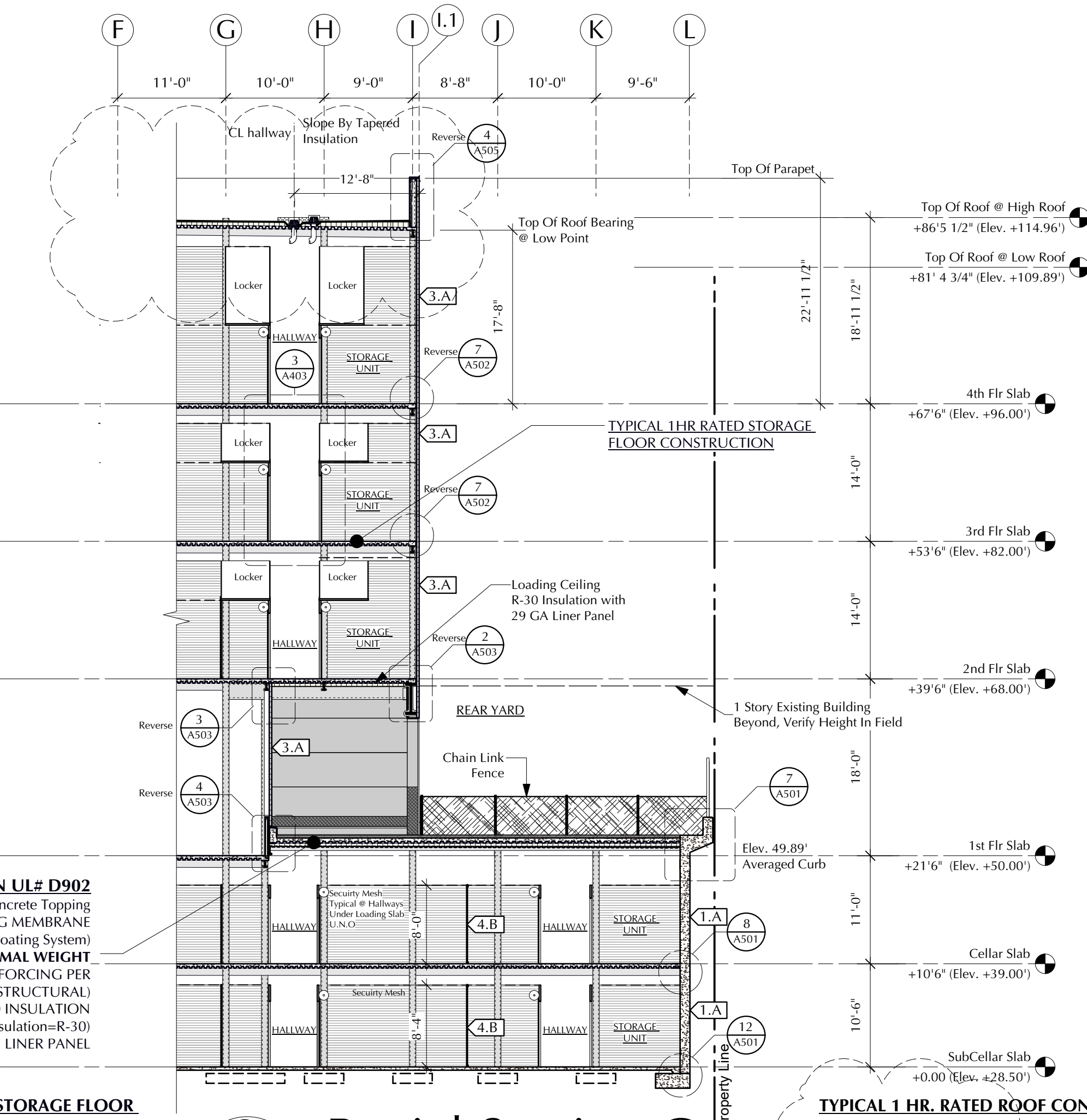
© Butz-Wilbern Ltd. 2019

BUILDING SECTIONS

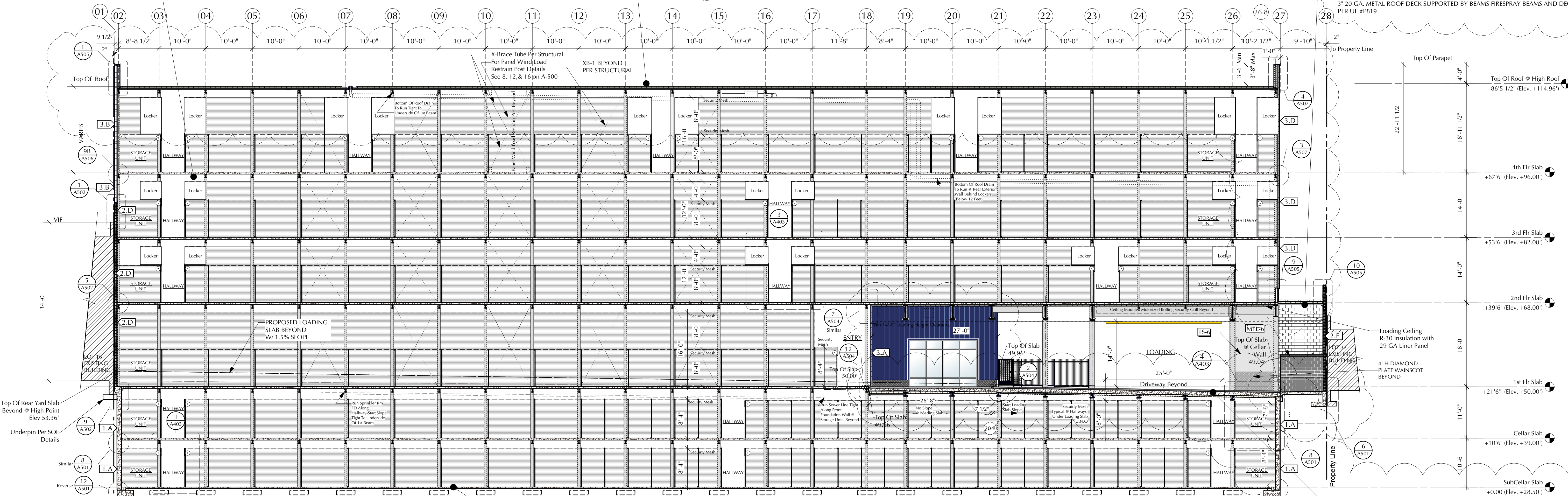
A-300.01



2 Section B-B
A-300 Scale: 3/32" = 1'-0"



3 Partial Section C
A-300 Scale: 3/32" = 1'-0"



1 Section A-A
A-300 Scale: 3/32" = 1'-0"

TYP. 1 HR RATED REAR ROOF CONSTRUCTION UL# D902
• 3" Concrete Topping
• WATERPROOFING MEMBRANE (Basis of Design ANTIROCK Traffic Coating System)
• 2" DEEP x 18 GA COMPOSITE VENTED DECK W/ 4 1/2" NORMAL WEIGHT CONC. TOPPING= TOTAL 6 1/2" CONC. DEPTH (REINFORCING PER STRUCTURAL)
• MIN R-30 INSULATION (Basis of Design Rmax TSX-8500 Polyiso Insulation-R-30)
• LINER PANEL

TYPICAL 1 HR. RATED (4 1/2") STORAGE FLOOR CONSTRUCTION UL# D902
• 2" DEEP x 18 GA COMPOSITE DECK W/
• 2 1/2" LIGHT WEIGHT CONC. TOPPING=4 1/2" TOTAL CONC. DEPTH W/ 6" x 6" x 1.4/1.4 W.W.M.
• MIN R-30 INSULATION (Basis of Design Rmax TSX-8500 Polyiso Insulation-R-30)
• LINER PANEL

TYPICAL 1 HR. RATED ROOF CONSTRUCTION UL# P819
3.5" Roofing Detention
SINGLE PLY ROOFING MEMBRANE SYSTEM PER MFR DETAILS (Basis of Design Carlisle TPO Reinforced Membrane Roof System)
5 1/2" POLY ISO INSULATION (MIN R-30)
3" 20 GA. METAL ROOF DECK SUPPORTED BY BEAMS FIRESPRAY BEAMS AND DECK PER UL #P819 (SLOPE ROOF STRUCTURE)

TYPICAL 1 HR. RATED LOADING ROOF CONSTRUCTION UL# P819
SINGLE PLY ROOFING MEMBRANE SYSTEM PER MFR DETAILS (Basis of Design Carlisle TPO Reinforced Membrane Roof System)
TAPERED POLY ISO INSULATION to create slope
3/4" ROOF BOARD
3" 20 GA. METAL ROOF DECK SUPPORTED BY BEAMS FIRESPRAY BEAMS AND DECK PER UL #P819

PROVIDE FULL WATERPROOFING IN SUBCELLAR
TYPICAL 4" SLAB ON GRADE CONSTRUCTION
4" CONCRETE SLAB ON GRADE PER STRUCTURAL
WATER PROOFING SYSTEM B.O.D: SOPREMA
2" PEA GRAVEL
4" WASHED GRAVEL

TYP. 1 HR RATED LOADING FLOOR CONSTRUCTION UL# D902
• 3" Concrete Topping
• WATERPROOFING MEMBRANE (Basis of Design ANTIROCK Traffic Coating System)
• 2" DEEP x 16 GA COMPOSITE VENTED DECK W/ 6" NORMAL WEIGHT CONC. TOPPING= TOTAL 8" CONC. DEPTH (REINFORCING PER STRUCTURAL)
• MIN R-30 INSULATION (Basis of Design Rmax TSX-8500 Polyiso Insulation-R-30)
• LINER PANEL



INTERIOR MATERIALS LIST						
LOCATION	NO.	MATERIAL	MANUFACTURER	STYLE/NO.	COLOR	REMARKS
CEILING						
	SAT-1	2X2 ACOUSTICAL CEILING TILE+GRID	ARMSTRONG	#1733	WHITE	USED IN BATHROOM, BREAKROOM AT 8'-0" FT AFF
PAINT	PT-1	EGGSHELL PAINT	SHERWIN WILLIAMS	SW # 7063	NEBULOUS WHITE	USED AT OFFICE + BREAKROOM WALLS BELOW CEILING LINE. SEE PAINTING SCHEDULE FOR ADDITIONAL DETAILS
	PT-2	SEMI-GLOSS PAINT	SHERWIN WILLIAMS	SW # 7067	CITYSCAPE	USED AT DOORS AND TRIM (U.N.O.)
	PT-3	FLAT PAINT	SHERWIN WILLIAMS	SW #6258	TRICORN BLACK	WALLS ABOVE CEILING LINE, DUCT WORK, ETC... SEE PAINTING SCHEDULE FOR ADDITIONAL DETAILS
	PT-4	EGGSHELL PAINT	SHERWIN WILLIAMS	SW #6811	HONORABLE BLUE	OFFICE ACCENT WALL BEHIND LARGE DESK
	PT-5	SEMI-GLOSS PAINT	BENJAMIN MOORE	2067-20	STARRY NIGHT BLUE	CMU WALLS @ DRIVE-IN LOADING
	PT-6	SEMI-GLOSS PAINT	SHERWIN WILLIAMS		UNCLE BOB'S YELLOW	DOORS @ STORAGE HALLWAYS
	PT-7	SEMI-GLOSS PAINT	SHERWIN WILLIAMS	SW #7004	SNOWBOUND	CMU WALLS @ HALLWAYS, ELEVATOR PIT
	PT-8	SEMI-GLOSS PAINT	SHERWIN WILLIAMS	SW #7069	IRON ORE	HANDRAILS
	PT-9	SEMI-GLOSS PAINT	BENJAMIN MOORE	2112-50	STORMY MONDAY	CMU WALL
WALL	FRP-1	FIBERGLASS REINFORCED PANELS				@ JANITOR'S CLOSET
	T-1	TILE	STYLE SELECTIONS	12" x 12"	SKRYOS GRAY (SMOOTH)	GROUT- MAPEI #38 AVALANCHE SANDED GROUT #27725
	T-2	TILE	DALTILE	NATURAL HUES / QH46	BLUEBERRY	12" x 12" / GROUT- MAPEI #38 AVALANCHE SANDED GROUT #27725
	WAIN-1	48" DIAMOND PLATE	MFR	#	COLOR	PROVIDE VINYL PROTECTIVE EDGE TRIM
	BASE-1	TILE	STYLE SELECTIONS	6" X12" (FIELD CUT)	SKRYOS GRAY (SMOOTH)	GROUT- MAPEI #38 AVALANCHE SANDED GROUT #27725; INSTALLED W/ SATIN ANONIZED ALUMINUM L-CHANNEL
	BASE-2	VINYL	JOHNSONITE	168	THUNDER	6" TALL; AT OFFICE CARPET LOCATIONS
	BASE-3	TILE	DALTILE	NATURAL HUES / QH46	BLUEBERRY	GROUT- MAPEI #38 AVALANCHE SANDED GROUT #27725
FLOORING	CPT-1	CARPET	MATS INC	36 DIAGONAL	CHARCOAL	@ OFFICE - SEE OFFICE FLOORING PLAN FOR EXTENT
	CPT-2	CARPET	MATS INC	36 DIAGONAL	BLUE	@ ELEVATOR LOBBIES
	CONC-1	CONCRETE	—	—	—	CURE & SEAL CONCRETE WITH BUCKEYE PROCLAIM WATER BASED FLOOR SEALER-OR EQUAL (TWO-COATS)
	T-3	TILE	STYLE SELECTIONS	12" x 12"	SKRYOS GRAY (SMOOTH)	GROUT- MAPEI #38 AVALANCHE SANDED GROUT #27725
MILLWORK (BY OTHERS)	P.LAM-1	PLASTIC LAMINATE	WILSON ART	10776 60	KENSINGTON MAPLE	KITCHEN CABINETRY
	P.LAM-2	PLASTIC LAMINATE	WILSON ART	1864 / HD FINISH	SARENTINO NERO	KITCHEN COUNTERTOP AND BACKSPASH
	P.LAM-3	MELAMINE	—	—	BLACK	KITCHEN CABINET INTERIORS
	--					
	--					
MISC.	TRANS-1	RUBBER	MATS INC	ULTRA FLEX	BLACK	SEE A-403 FOR LOCATIONS

NOTES:
1. ALL INTERIOR FINISHES SHALL HAVE A FLAME SPREAD RATING OF 200 OR LESS WITH A MAXIMUM SMOKE GENERATION FACTOR OF 450 PER SECTION 6-5 NFPA 101.

ISSUE DATE

1 Permit Set3/23/20

REVISION DATE

1454 39th Street Self Storage

Safe N Lock
1454 39TH ST
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK

B³⁰W

BUTZ • WILBERN LTD

Planning | Architecture
Interiors | Property Visioning

800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010



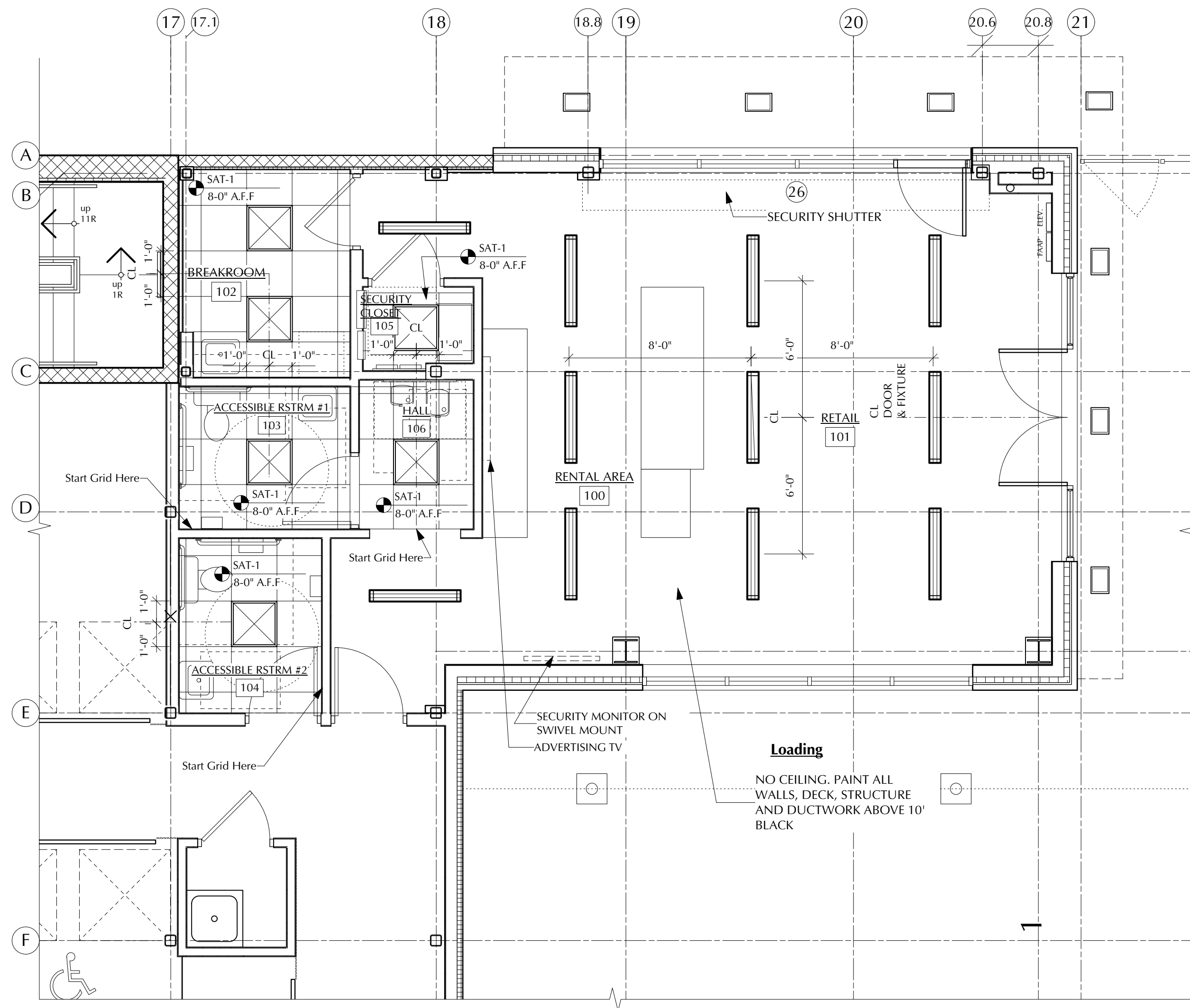
© Butz • Wilbern Ltd. 2019

RENTAL AREA
PLANS

A-400.00

33 OF 48

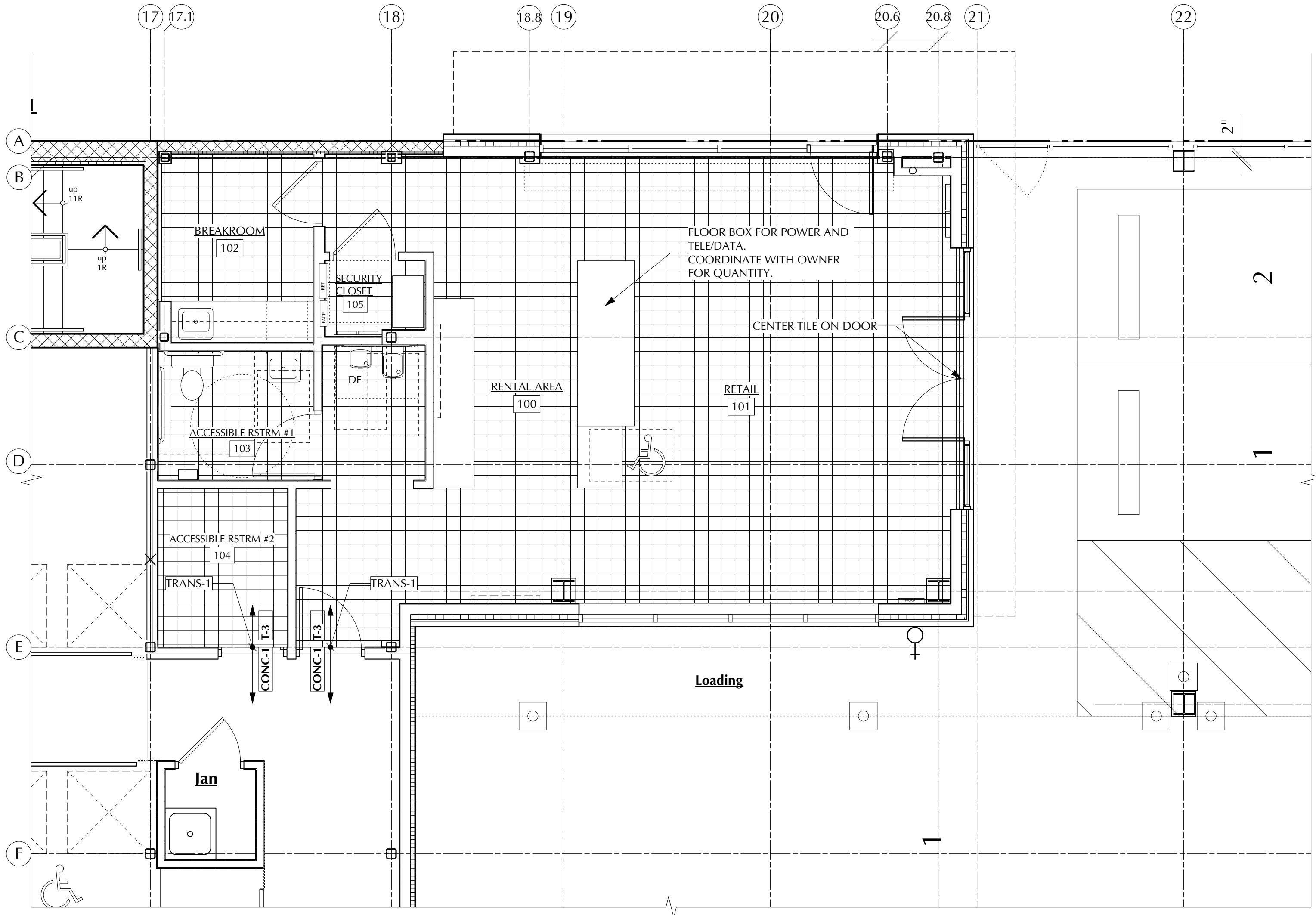
19010



2 Retail & Rental Area RCP
A-400 1/4" = 1'-0"

FIXTURE KEY		SEE ELECTRICAL FOR FIXTURE SCHEDULE
	2' x 2' USA LED PNL SERIES FLAT PANEL	Ⓢ 8'-0" A.F.F.
	USA LED LBC SERIES (LOWBAY) 4' LED STRIP	Ⓢ 10'-0" A.F.F.
	USA LED CPB SERIES AWNING LIGHT	

GENERAL RCP NOTES:
1. G.C. TO COORDINATE ALL TRADES TO ENSURE EQUIPMENT @ CEILING IS INSTALLED NEATLY IN A WORKMAN LIKE MANNER. ALL CONDUIT TO BE POSITIONED PARALLEL TO EXISTING BEAMS OR AT 90° TO BEAMS. ALL EXPOSED WIRES ARE TO BE IN CONDUIT. ALL DUCTS, CONDUIT, MISC. WIRES, ETC. SHOULD BE HIDDEN IF POSSIBLE.
2. ALL OUTLETS TO MATCH ADJACENT SURFACE COLOR.
3. SEE ELECTRICAL PLANS FOR LIGHT FIXTURE SCHEDULE.
4. REFER TO MECH. DWG.'S FOR MECHANICAL EQUIPMENT LOCATIONS.
5. FIRE SPRAY BEAMS AT OFFICE PER UL4D902



1 Retail & Rental Area Flooring Plan
A-101 1/4" = 1'-0"

GENERAL EQUIPMENT & FLOORING NOTES:
1. PROVIDE TRANSITION STRIPS BETWEEN ALL NON-LIKE MATERIALS.
2. SEE HARDWARE SCHEDULE FOR ALL EXTERIOR THRESHOLDS AND ALL MFR SPECIFIC THRESHOLD/TRANSITION.
3. RAINLIP TO BE LARGER THAN THRESHOLD WITH 1/2" MAX HEIGHT CHANGE.
4. SPACE BETWEEN RAINLIP AND THRESHOLD TO BE FILLED AND COVERED W/ FLOORING NOTED ON PLAN.
5. REFER TO ELECTRICAL PLANS FOR POWER & DATA LOCATIONS.
6. LCD MONITOR BY SECURITY CONTRACTOR. GC TO COORDINATE INSTALLATION WITH SECURITY COMPANY. VERIFY LOCATION WITH OWNER.

FINISH SCHEDULE - RETAIL & RENTAL AREA & STORAGE											
OFFICE	ROOM #	ROOM NAME	FLOOR	BASE	WALLS	EXPOSED COLUMNS	DOOR	DOOR FRAME	WINDOW FRAME	CEILING	REMARKS
	100	RENTAL AREA	T-3	BASE-1	PT-1/2/3	--	PT-2	PT-2	PRE-FINISHED	PT-3	PAINT 10' ABOVE BLACK
	101	RETAIL	T-3	BASE-1	PT-1/2/3	--	PT-2	PT-2	PRE-FINISHED	PT-3	PAINT 10' ABOVE BLACK
	102	BREAKROOM	T-3	BASE-1	PT-1	--	PT-2	PT-2	PRE-FINISHED	SAT-1	CEILING @ 8'-0" AFF
	103	ADA BATHROOM #1	T-3	BASE-2/3	T-1/T-2	--	PT-2	PT-2	--	SAT-1	CEILING @ 8'-0" AFF
	104	ADA BATHROOM #2	T-3	BASE-2/3	T-1/T-2	--	PT-2	PT-2	--	SAT-1	CEILING @ 8'-0" AFF
	105	SECURITY CLOSET	T-3	BASE-1	PT-1	--	PT-2	PT-2	--	SAT-1	
	JANITOR CLOSET	EPOX-1	--	PT-1/FRP-1	--	PT-2	PT-2	--	--	FRP ON ALL WALLS TO 48" AFF	
STORAGE		TRASH	CONC-1	WAIN-1	PT-1	--	--	--	--	PT-	
		DRIVE AISLE	PECORA DECK 8123HD	WAIN-1	PT-1/PT-5	--	--	--	--	--	SLAB TO BE BROOM FINISHED
		ENTRY LOBBY	CPT-2	WAIN-1	PT-7	--	--	--	--	--	
		STORAGE UNITS	CONCRETE	--	SEE A-070	--	SEE A-080	--	--	--	
		STORAGE HALLWAYS	SEAL-1 (2 COATS)	--	SEE A-070	--	SEE A-080	--	--	--	
		SPRINKLER ROOM	SEAL-1 (2 COATS)	--	--	--	PT-6	PT-6	--	--	
		ELECTRICAL ROOM	SEAL-1 (2 COATS)	--	--	--	PT-6	PT-6	--	--	
		ELEV. CONTROL ROOM	SEAL-1 (2 COATS)	--	--	--	PT-6	PT-6	--	--	
		DISPLAY HALLWAYS	CONCRETE	--	SEE A-070	--	SEE A-080	--	--	--	
		ELEVATOR LOBBY	CPT-2	WAIN-1	PT-7	--	--	--	--	--	
		STAIRWELL - INTERIOR	MTL -1 (@ LANDINGS)	--	PT-8	--	PT-6	PT-6	--	--	METAL TO BE PAINTED, SEE NOTE 5
		STAIRWELL - HALLWAY SIDE	--	--	PT-9	--	PT-6	PT-6	--	--	METAL TO BE PAINTED, SEE NOTE 5
	NOTES: 1. ALL INTERIOR FINISHES SHALL HAVE A FLAME SPREAD RATING OF 200 OR LESS WITH A MAXIMUM SMOKE GENERATION OF 450 PER SECTION 6-5 NFPA 101. 2. REFER TO A420 FOR ELEVATOR CAB FINISHES. 3. PROVIDE 2" RIGID INSULATION AND 29GA. LINER PANEL ABOVE ALL UNCONDITIONED UNITS. 4. ALL METAL INCLUDING HANDRAIL, GUARDRAIL, LANDINGS, AND STRINGERS, ETC TO BE PTD PT-8 (SW IRON ORE) 5. PAINT ALL MASONRY AND DRYWALL VISIBLE FROM THE ENTRIES, WINDOWS OR HALLWAYS WHITE 6. GC TO COORDINATE ALL TRADES TO ENSURE EQUIPMENT @ CILING IS INSTALLED NEATLY IN A WORKMAN LIKE MANNER. ALL CONDUIT TO BE PARALLEL OR PERPENDICULAR TO EXISTING BEAMS. ALL EXPOSED WIRES ARE TO BE IN CONDUIT. ALL DUCTS CONDUIT, MISC. WIRES, ETC. SHOULD BE HIDDEN IF POSSIBLE 7. PROVIDE 2" RIGID INSULATION AND 29GA LINER PANEL ABOVE ALL UNCONDITIONED UNITS. CONFIRM R-VALUE WITH LOCAL ENERGY CODE.										

ISSUE DATE

1 Permit Set 3/23/20

REVISION DATE

1454 39th Street Self Storage

Safe N Lock
1454 39TH ST
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK

B30W

BUTZ•WILBERN LTD

Planning | Architecture
Interiors | Property Visioning

800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010

REGISTERED ARCHITECT
JAMES E. BANKS
140541
STATE OF NEW YORK

© Butz•Wilbern Ltd. 2019

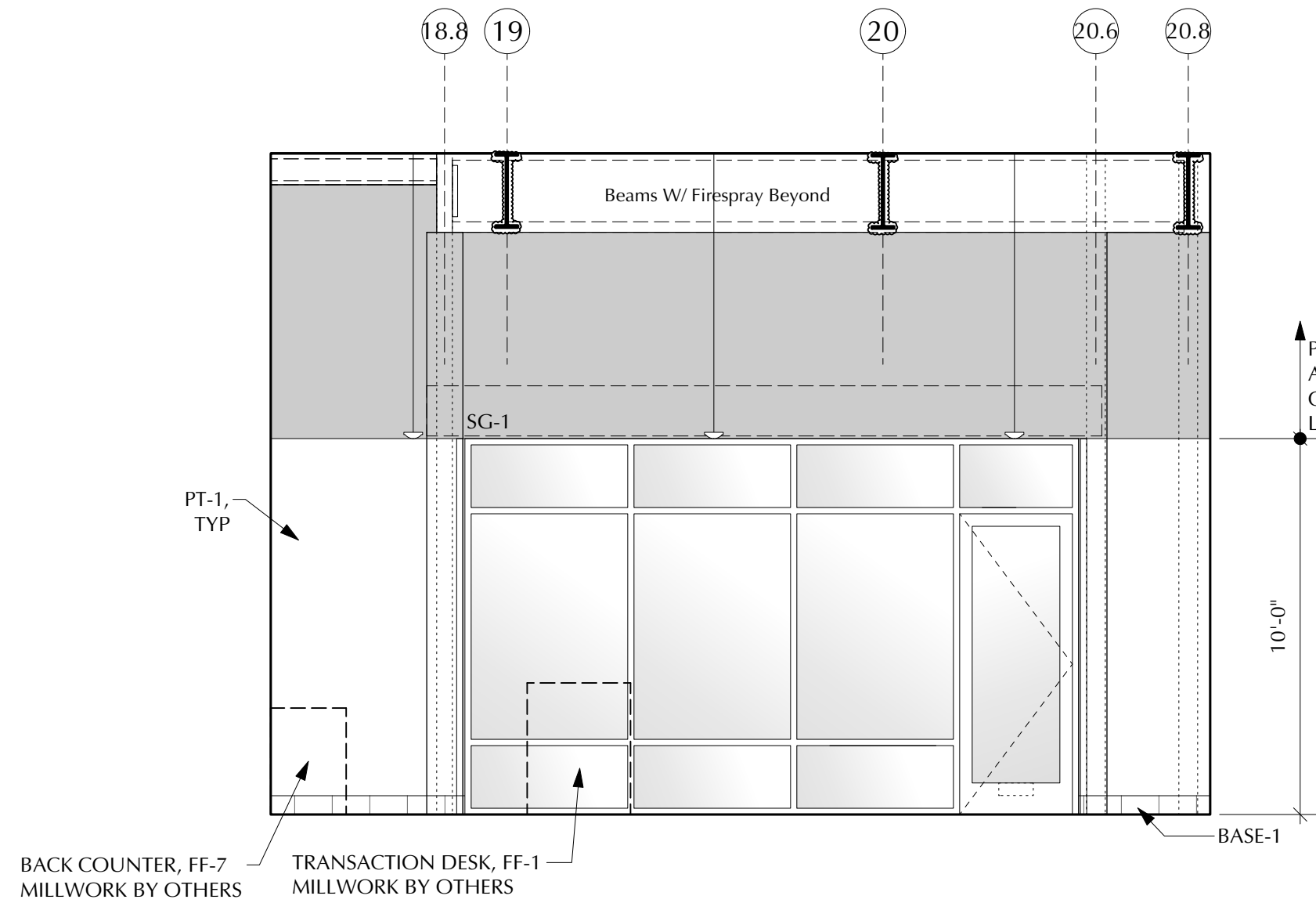
RENTAL AREA
Flooring+RCP

A-401.00

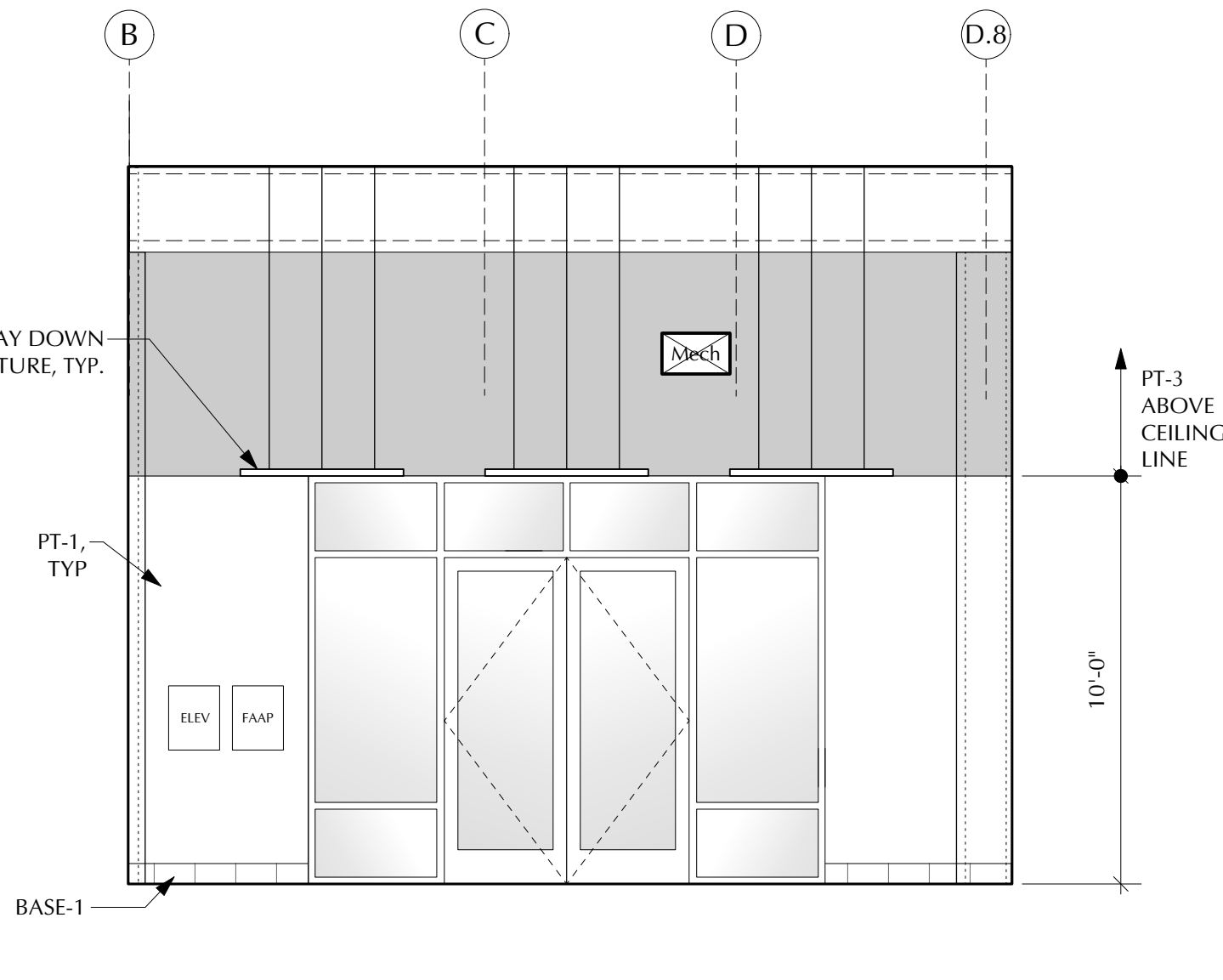
34 OF 48

19010

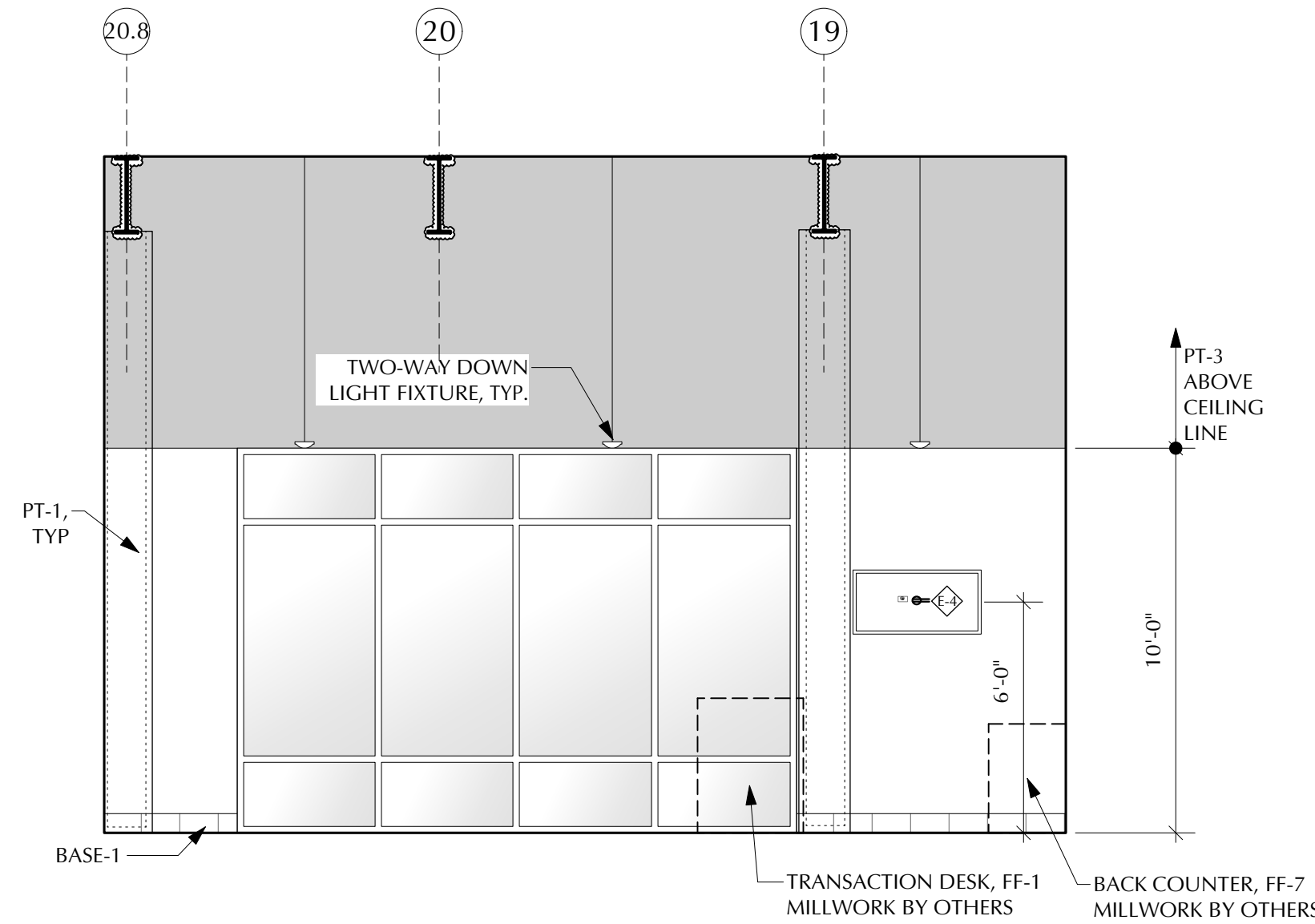
- MILLWORK NOTES:**
- SEE A-050 FOR EQUIPMENT, PLUMBING FIXTURES AND BATHROOM ACCESSORIES
 - MILLWORK IS SHOWN FOR DESIGN INTENT ONLY. SHOP DRAWINGS SHALL BE SUBMITTED & APPROVED BY OWNER & ARCHITECT PRIOR TO FABRICATION AND INSTALLATION.
 - PHONE/CABLE LINES ARE AS FOLLOWS:
 - 2) - BUSINESS LINES MAIN & ROLLOVER
 - (1) - DEDICATED LINE FOR DSL (PROVIDE CABLE IF DSL IS NOT AVAILABLE)
 - (1) - DEDICATED LINE FOR FAX USE
 - (1) - CENTRAL STATION NOTIFICATION FOR FIRE/SECURITY
 - (1) - LINE FOR ELEVATORS
 - PRE-WIRE OFFICE FOR CABLE AND PHONE HOOK-UP. COORDINATE W/ OWNER'S MILLWORK INSTALLER FOR POWER, DATA & FAX LINES IN MILLWORKS.
 - ALL PHONE & DATA LINES TO HAVE A 25 PAIR CAT-5 CABLE, HOMERUN TO PHONE PUNCH-DOWN BLOCK.
 - CASH DRAWER SHOULD HAVE A LOCK, SIZE DRAWER TO ACCOMMODATE BOY-533-4 MONEY TRAY FROM STAPLES OR OTHERS (15-3/8" X 9-1/4" X 1-5/8")
 - INSTALL SURGE PROTECTION FOR WALL HUNG MONITORS
 - PROVIDE #4 CHROME WIRE PULLS ON CABINETS
 - PROVIDE GROMMETS AND WIRE TRAYS PER DETAILS



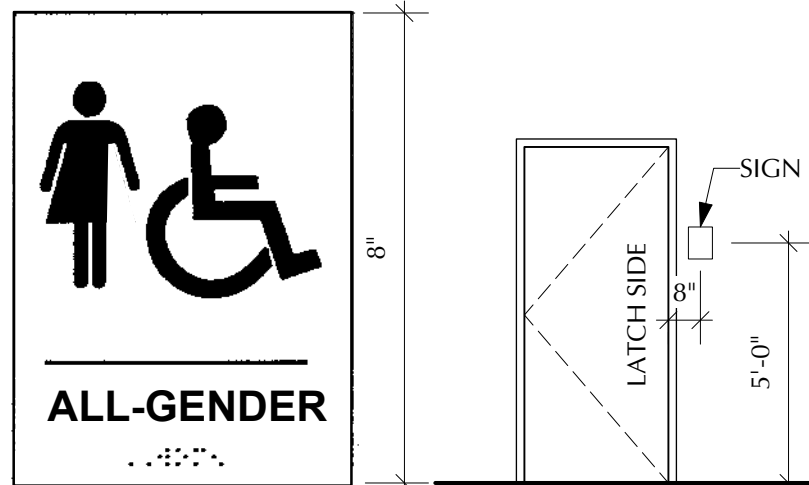
C STREET ENTRANCE ELEVATION
A-402 Scale: 1/4" = 1'-0"



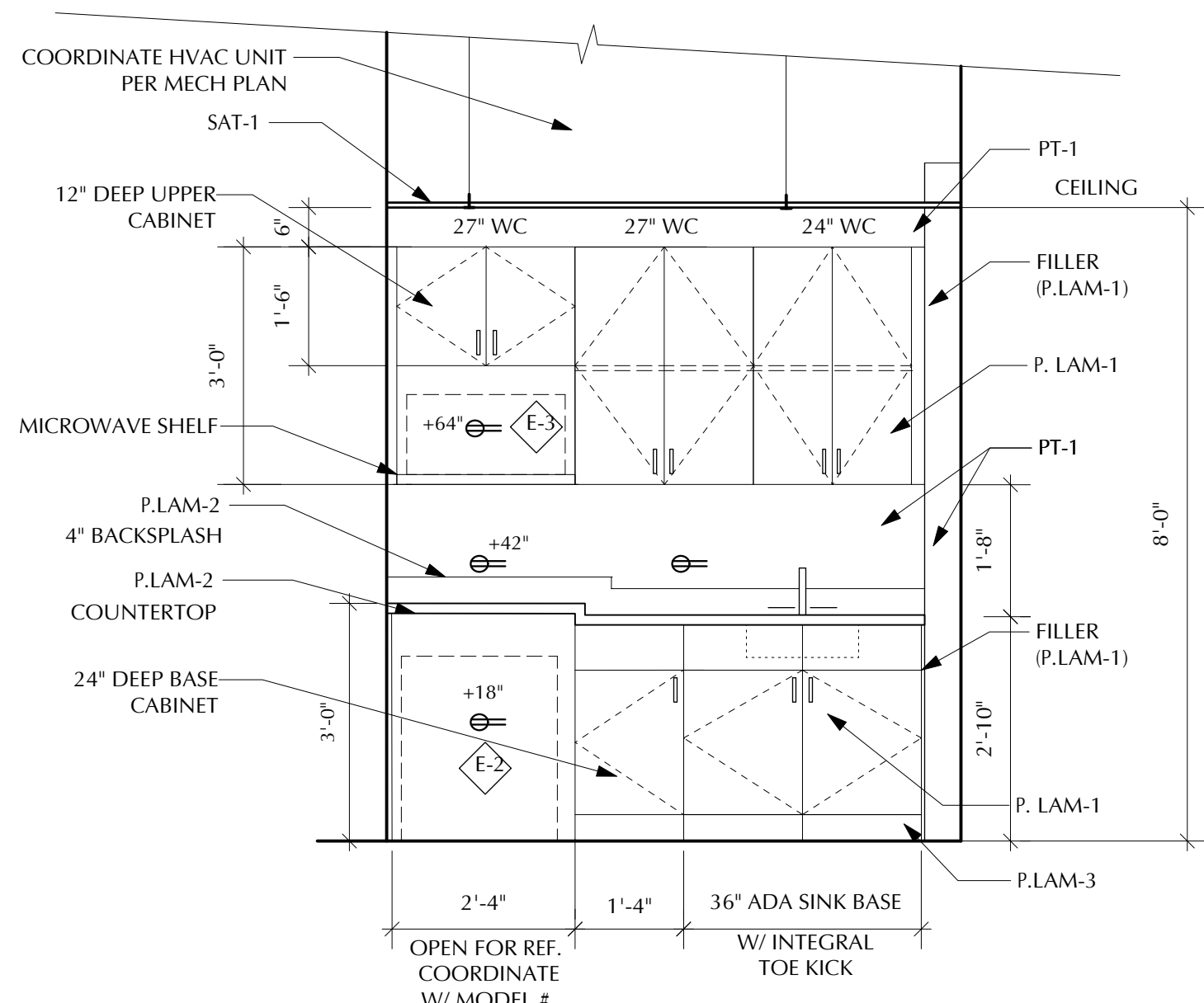
B ENTRY ELEVATION
A-402 Scale: 1/4" = 1'-0"



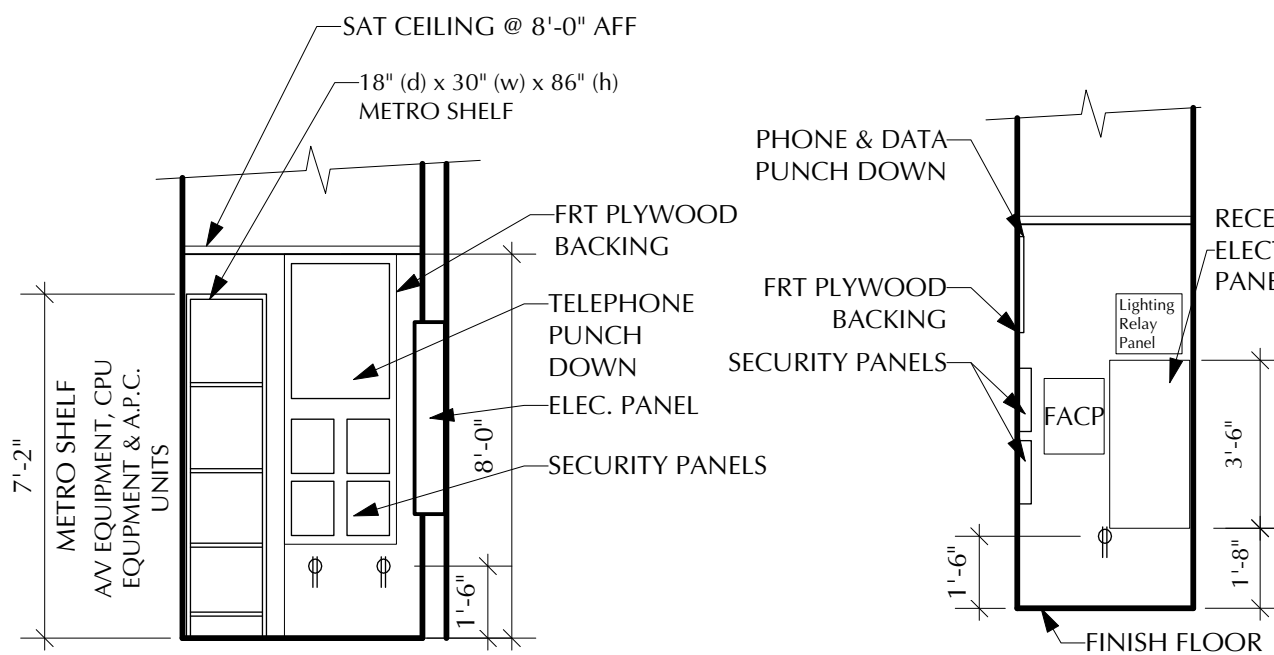
A STOREFRONT ELEVATION
A-402 Scale: 1/4" = 1'-0"



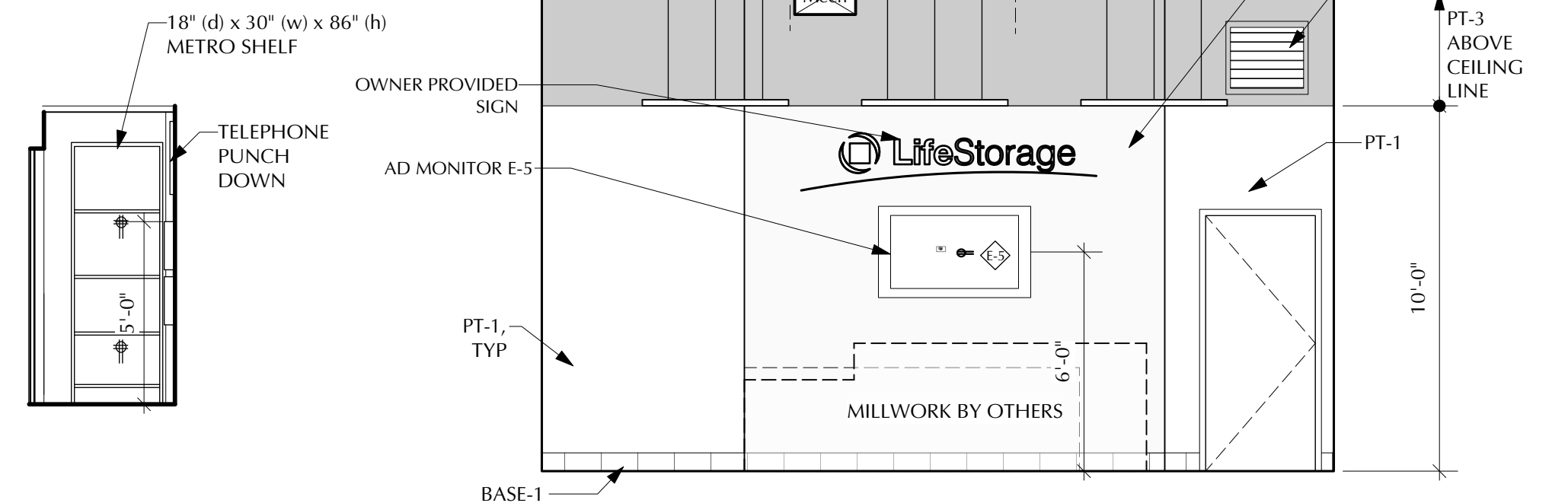
TYP. SIGNAGE @ BATHROOMS
SCALE: NTS



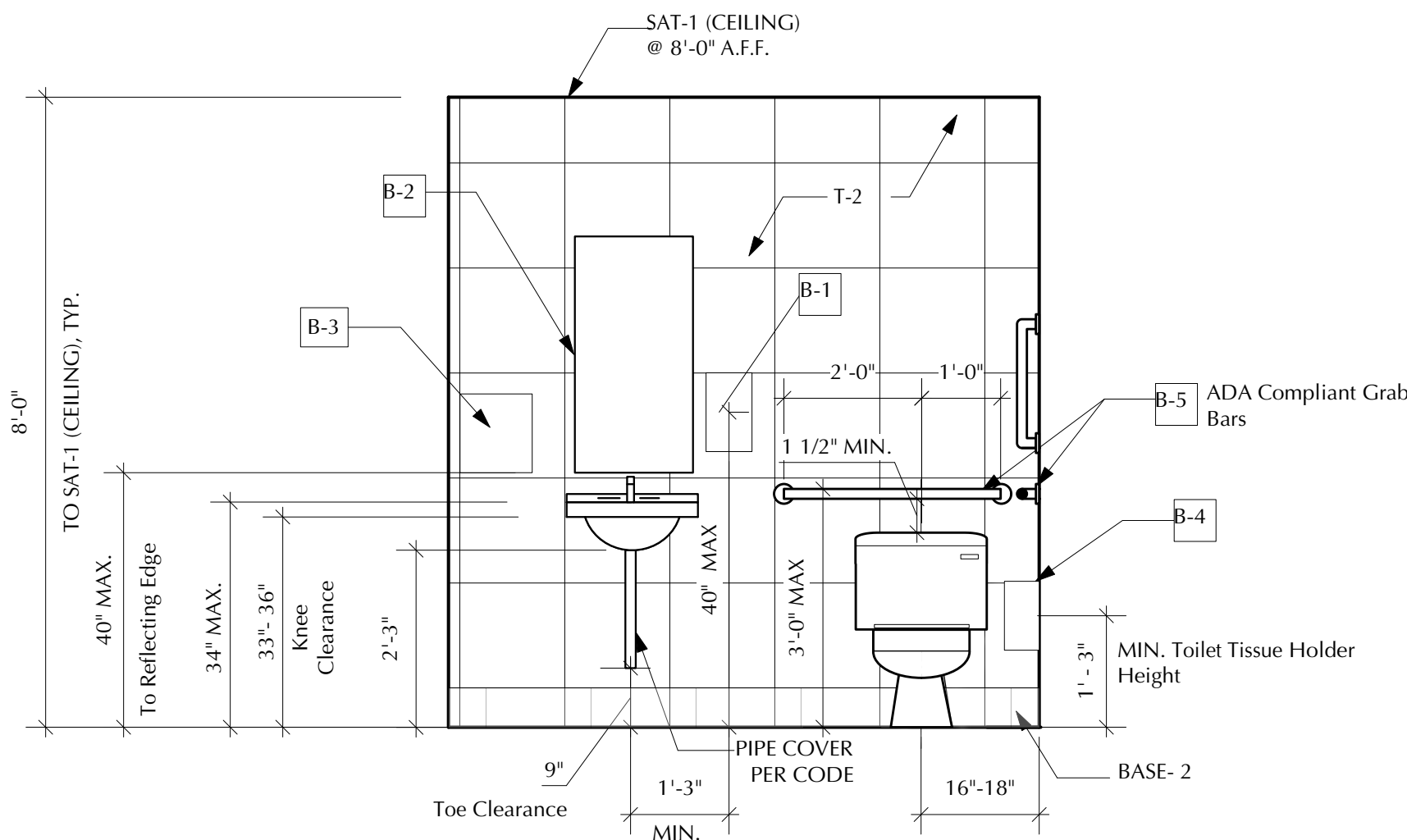
F BREAKROOM ELEVATION
A-402 Scale: 1/2" = 1'-0"
PROVIDE SEMI-GLOSS PAINT @ BREAKROOM



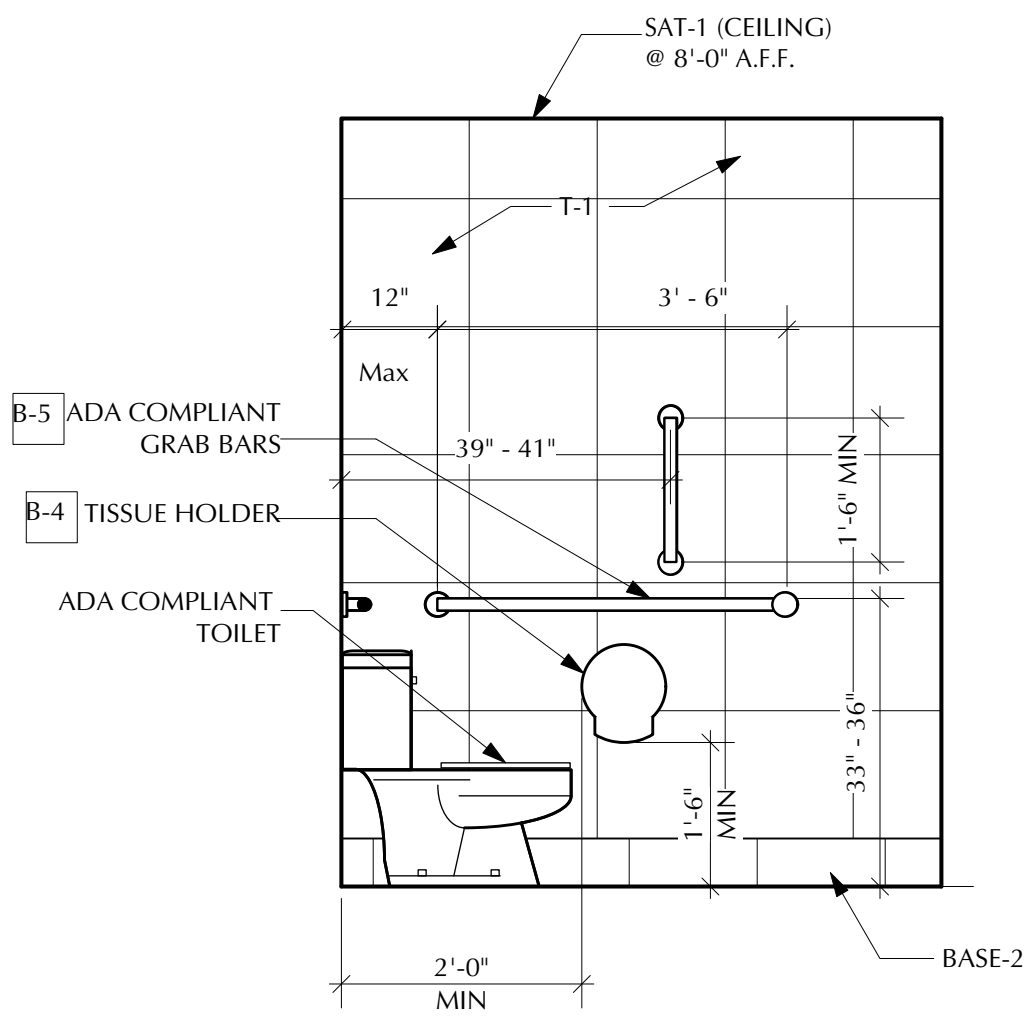
E SECURITY CLOSET ELEVATIONS
A-402 Scale: 1/4" = 1'-0"



D TRANSACTION ELEVATION
A-402 Scale: 1/4" = 1'-0"



H ADA RESTROOM ELEVATION
A-402 Scale: 1/2" = 1'-0"



G ADA RESTROOM ELEVATION
A-402 Scale: 1/2" = 1'-0"

MILLWORK SCHEDULE				
#	DESCRIPTION	FINISH	HARDWARE	REMARKS
M-1	4 DRAWER CABINET	PER OWNER	PER OWNER	
M-2	OFFICE COUNTERS	PER OWNER	PER OWNER	
M-3	BREAKROOM COUNTERS	P-LAM	N/A	VINYL EDGES
M-4	BREAKROOM CABINETS	P-LAM	WIRE PULLS	
M-5	LATERAL FILES	PER OWNER	PER OWNER	
M-6	BOX STORAGE	P-LAM	N/A	

NOTES:
1. ALL WORK TO BE CONSTRUCTED TO AWI CUSTOM STANDARDS.

BATHROOM ACCESSORIES SCHEDULE					
#	DESCRIPTION	MANUFACTURER	MODEL #	FINISH	REMARKS
B-1	WALL-MTD. SOAP DISPENS	BOBRICK	B-818615	GOJO-BLACK	SURFACE MOUNTED-SEE INT. ELEVS
B-2	MIRROR	BOBRICK	B-165 2448	--	SURFACE MOUNTED-SEE INT. ELEVS
B-3	HAND DRYER	XLERATOR	-	STAINLESS STEEL	SURFACE MOUNTED-SEE INT. ELEVS
B-4	TOILET TISSUE HOLDER	TORK	MINI TWIN T-BOX	BLACK	SURFACE MOUNTED-SEE INT. ELEVS
B-5	ADA GRAB BAR	BOBRICK	B-6806	STAINLESS STEEL	LENGTH 36" & 42" & 18"-SEE INT. ELEVS

NOTES:

1. ALL FIXTURES AND HARDWARE TO BE ADA COMPLIANT. SEE A-XXX FOR MOUNTING HEIGHTS.

EQUIPMENT SCHEDULE - RETAIL & RENTAL AREA						
#	DESCRIPTION	LOCATION	MFR	MODEL	COLOR	REMARKS
E-1	HI / LOW DRINKING FOUNTAINS	OFFICE	ELKAY	EDFP217C	STAINLESS STEEL	
E-2	REFRIGERATOR	OFFICE BREAK ROOM	DANBY	DCR044A2BDD	BLACK	20.6875" (W) x 20 7/8"(D) x 32.6875"(T)
E-3	COUNTER MICROWAVE	OFFICE BREAK ROOM	GE	JES1460DS	BLACK	
E-4	42" LCD MONITOR	RETAIL & OFFICE	LG	CS560	BLACK	GC TO PROVIDE POWER & BLOCKING; COORD. W/ OWNER (SEE ELEVATIONS)
E-5	55" ADVERTISING TV	RETAIL & OFFICE				
NOTES:						
1.						

1454 39th Street Self Storage

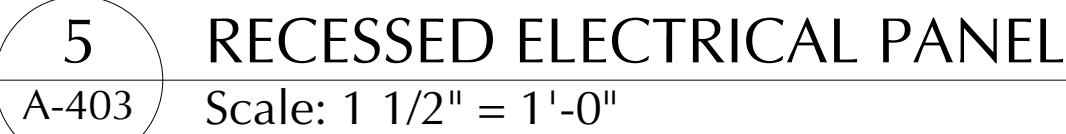
Safe N Lock
1454 39TH ST
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK

B³⁰W
BUTZ•WILBERN LTD

Planning | Architecture
Interiors | Property Visioning

800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010

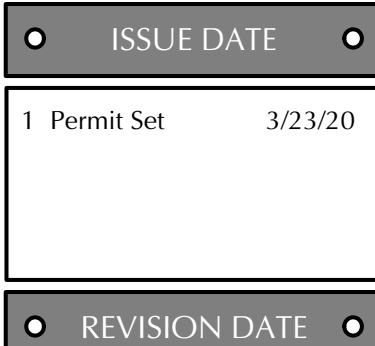
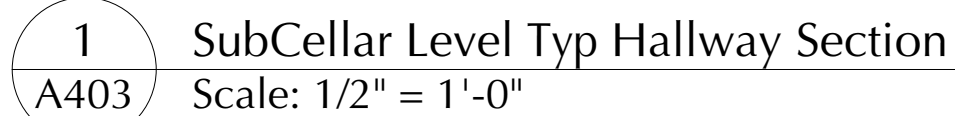
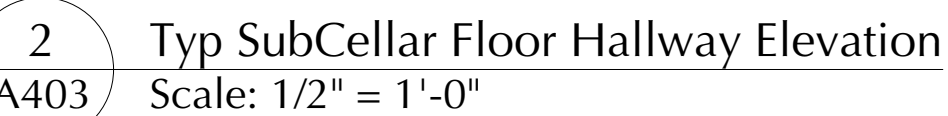
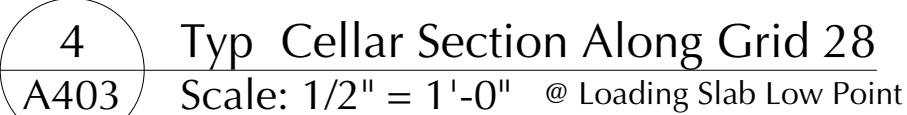




FIRE EXTINGUISHER SCHEDULE					
BUILDING	BUILDING AREA	UNIT CLASSIFICATION	MAXIMUM FLOOR AREA PER UNIT	# UNITS REQ'D	# UNITS PROVIDED
SUB CELLAR FLR	22,325	4-A	6,000	4	7
CELLAR FLR	22,325	4-A	6,000	4	7
1ST FLR- STORAGE	8,133	4-A	6,000	2	2
1ST FLR- OFFICE	948	2-A	3,000	1	1
1ST FLR-LOADING	5,708	4-A	6,000	1	1
2ND FLR	16,188	4-A	6,000	3	5
3RD FLR	16,188	4-A	6,000	3	6
4TH FLR	16,188	4-A	6,000	3	6

NOTES:

- CABINET TO BE IDENTIFIED IN COMPLIANCE WITH ICC 2012- 905.7.1
- CABINETS TO BE LOCATED AS SHOWN ON PLANS IN COMPLIANCE WITH ICC 2012- 906.3.1, NO GREATER TRAVEL DISTANCE THAN 75' BETWEEN EXTINGUISHERS
- FIRE EXTINGUISHERS TO BE IN COMPLIANCE WITH ICC 2012- TABLE 906.3(1), MODERATE HAZARD OCCUPANCY



1454 39th Street Self Storage

Safe N Lock
1454 39TH ST

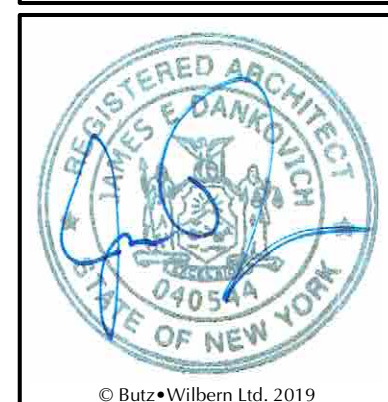
1434 3911131
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK



BUTZ•WILBERN LTD

Planning | Architecture
Interiors | Property Visioning

800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010



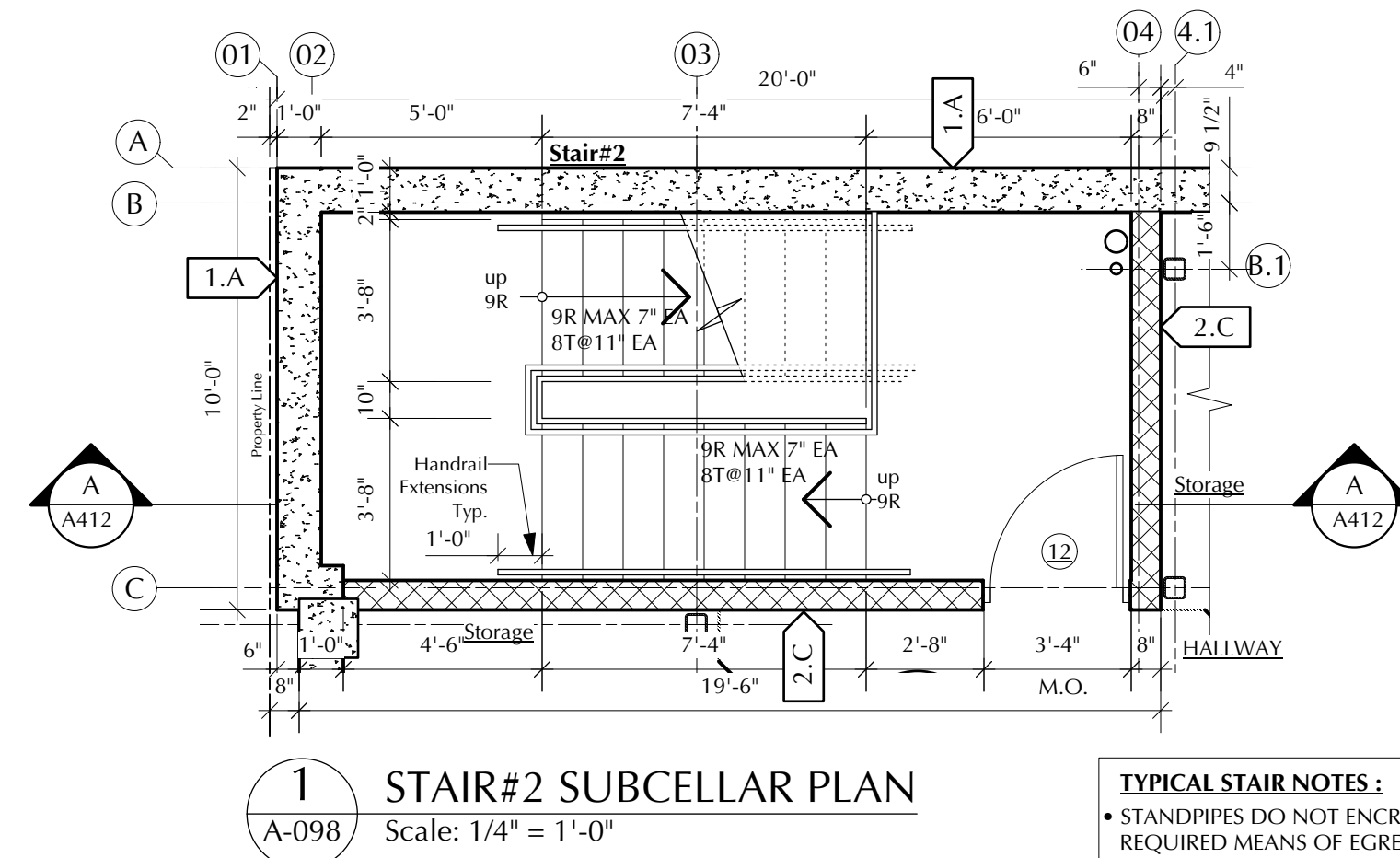
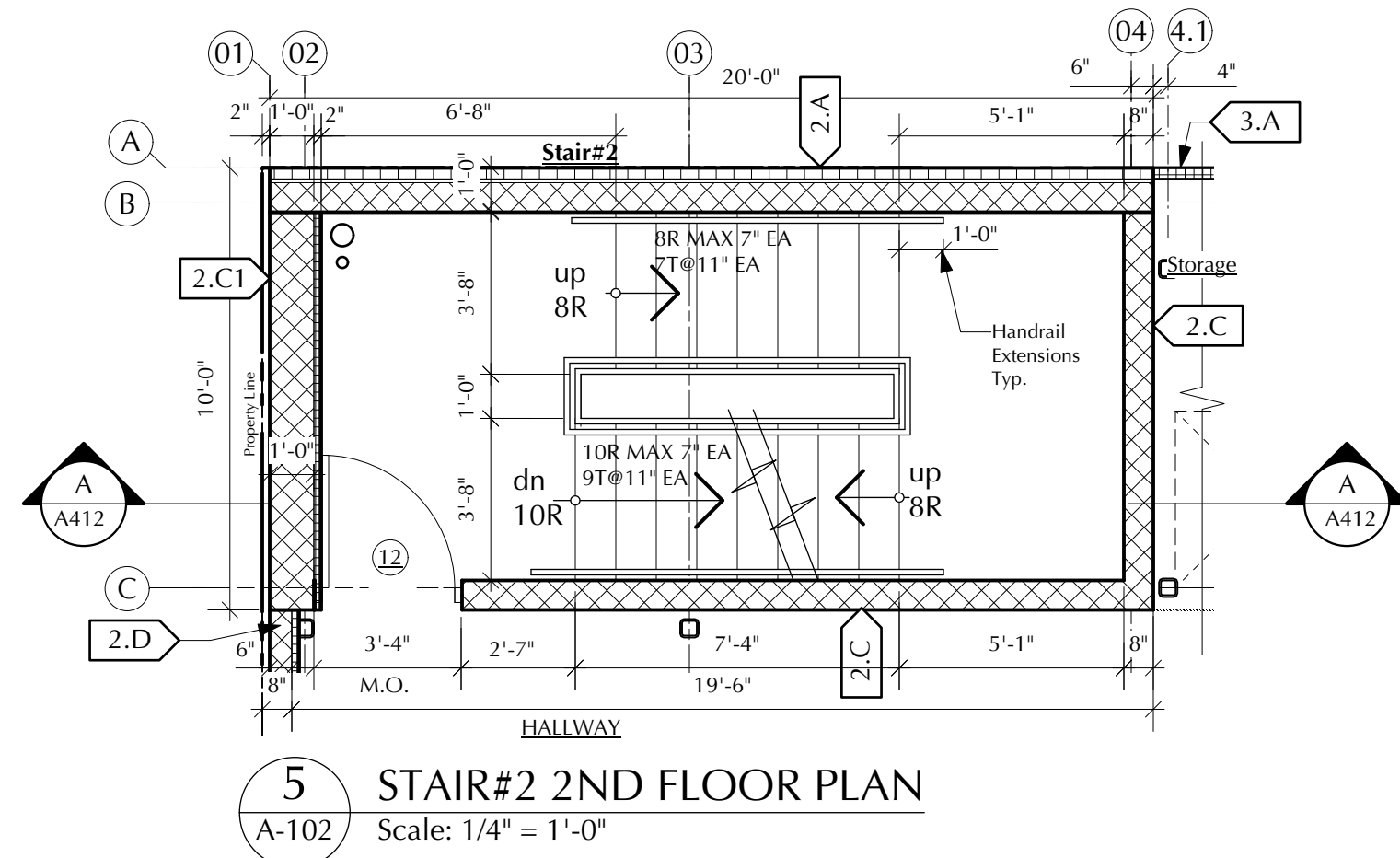
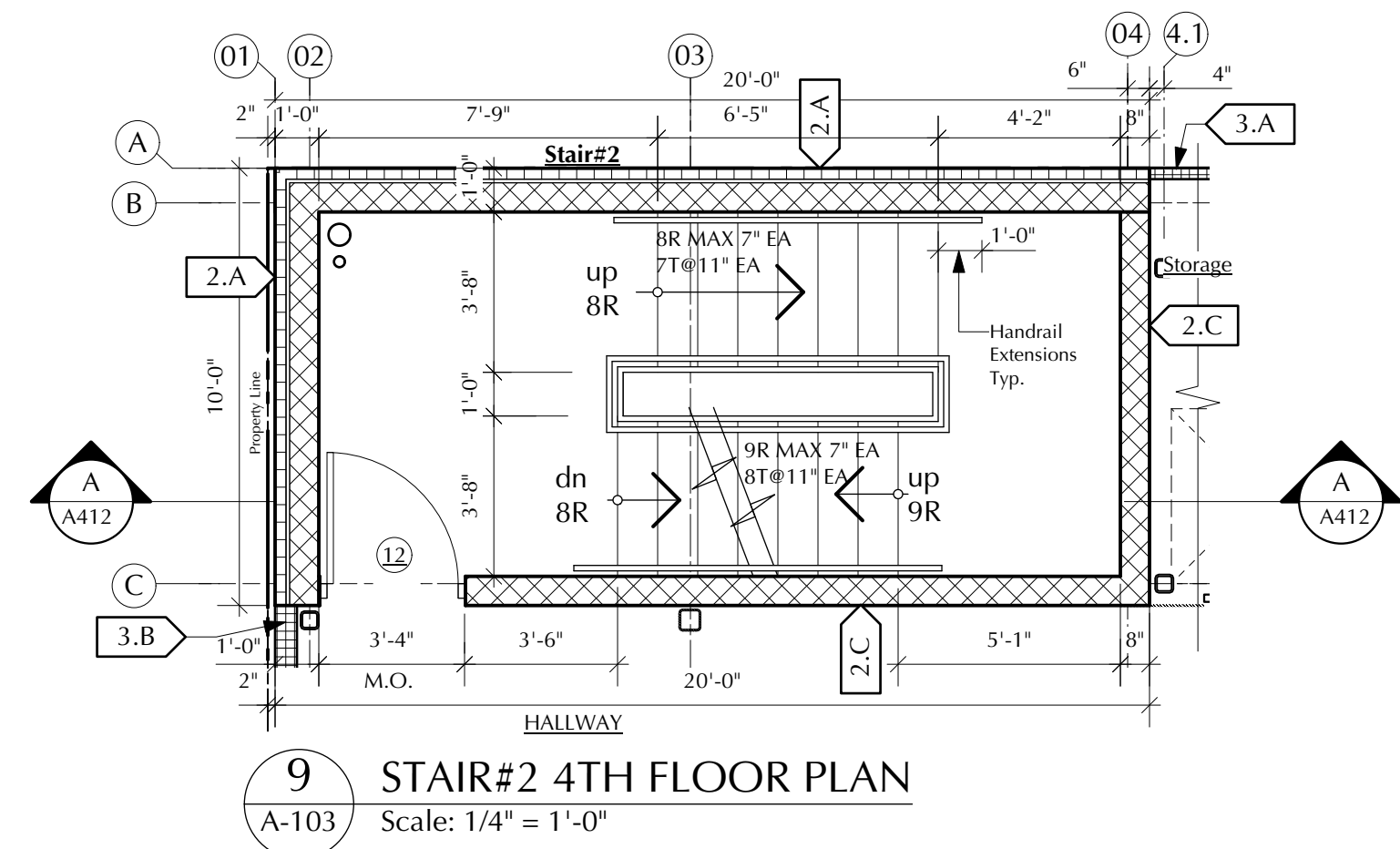
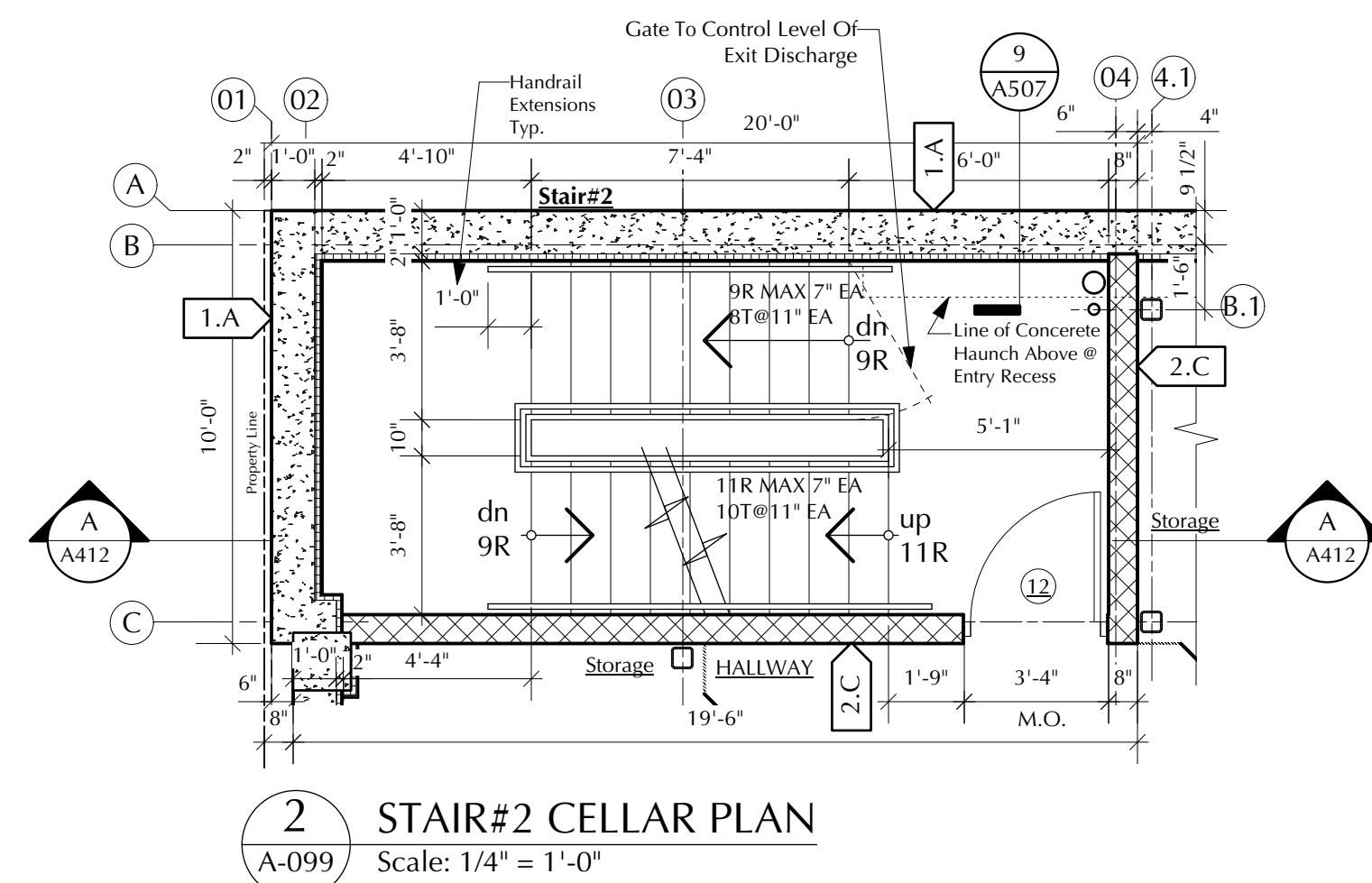
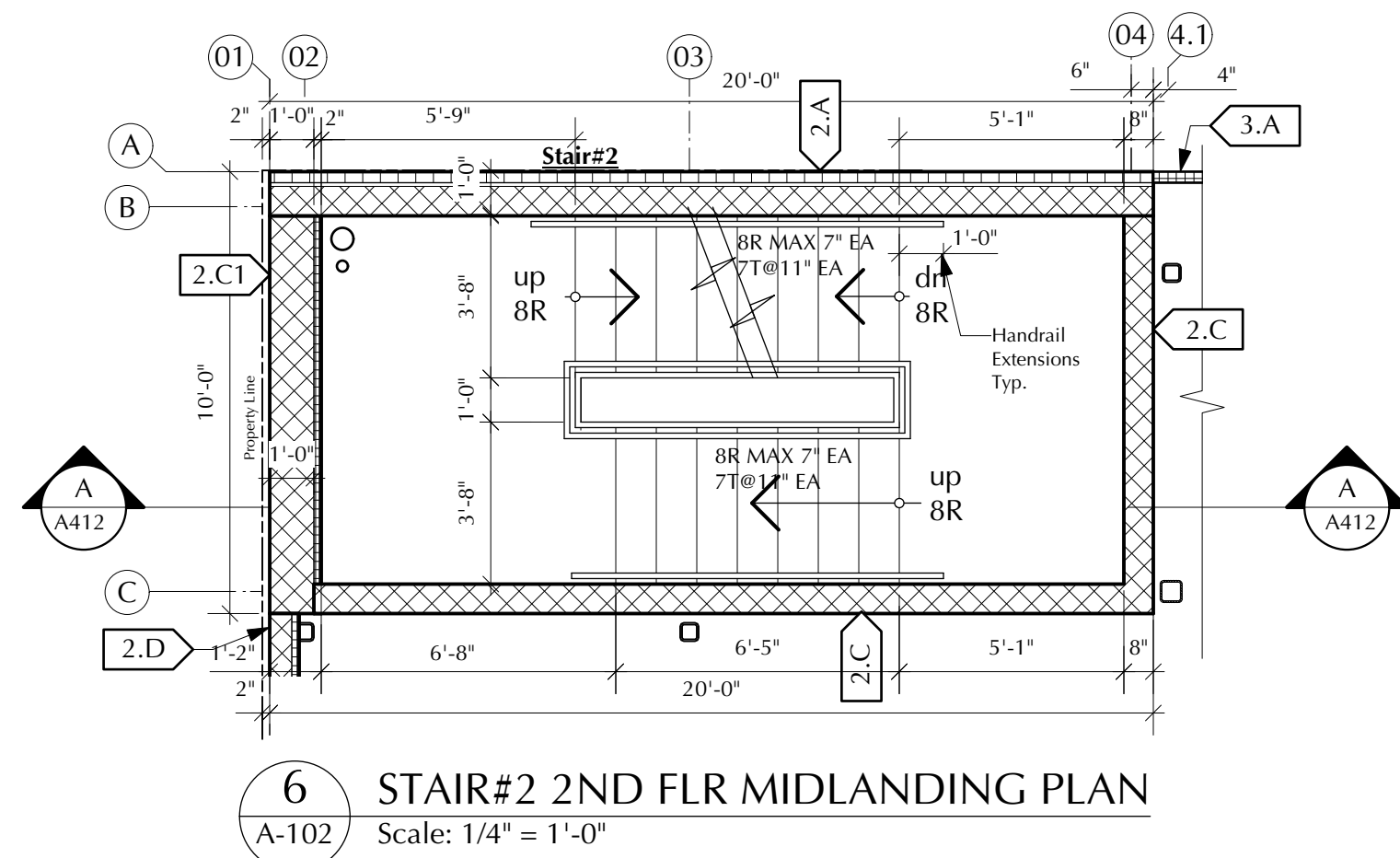
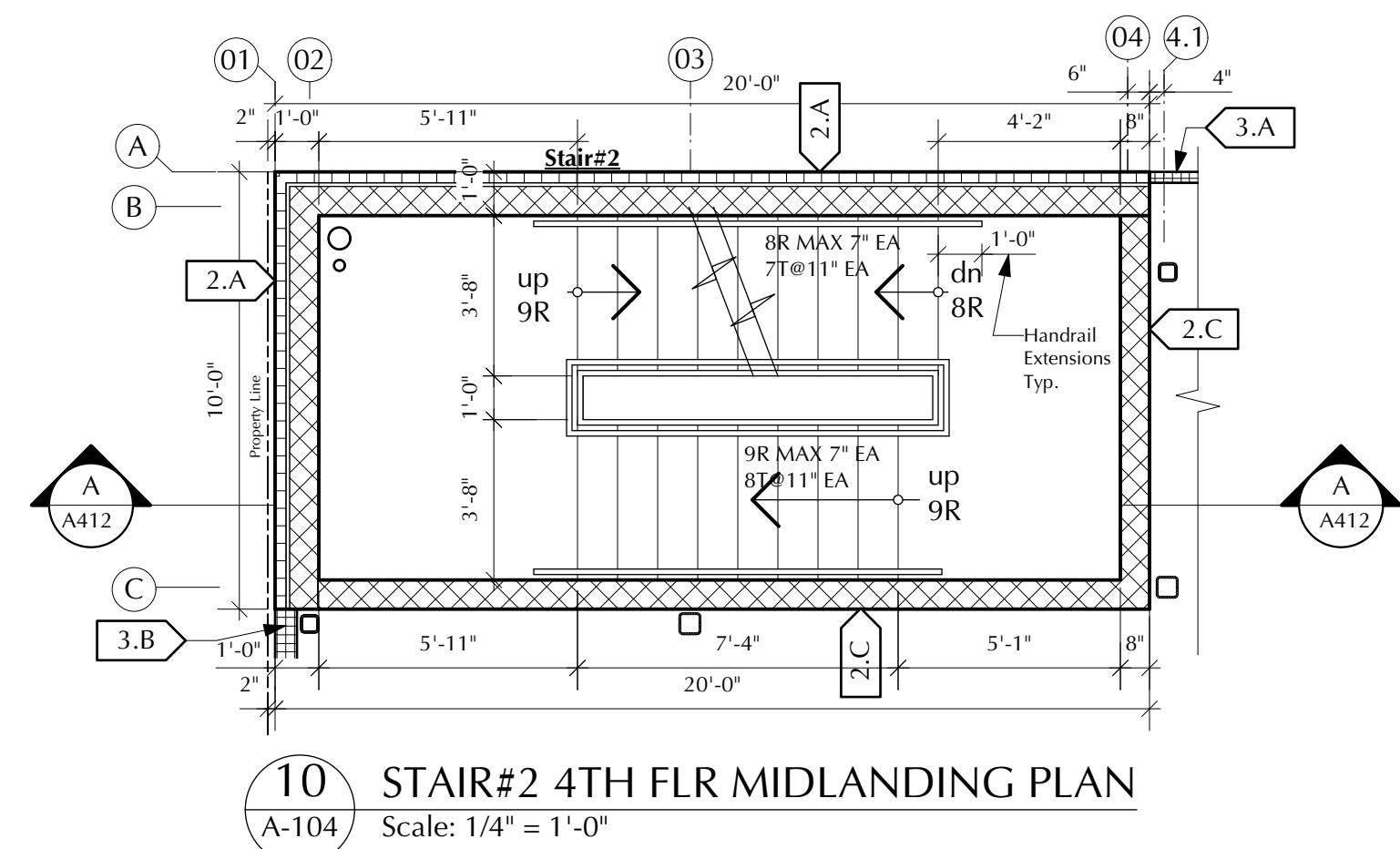
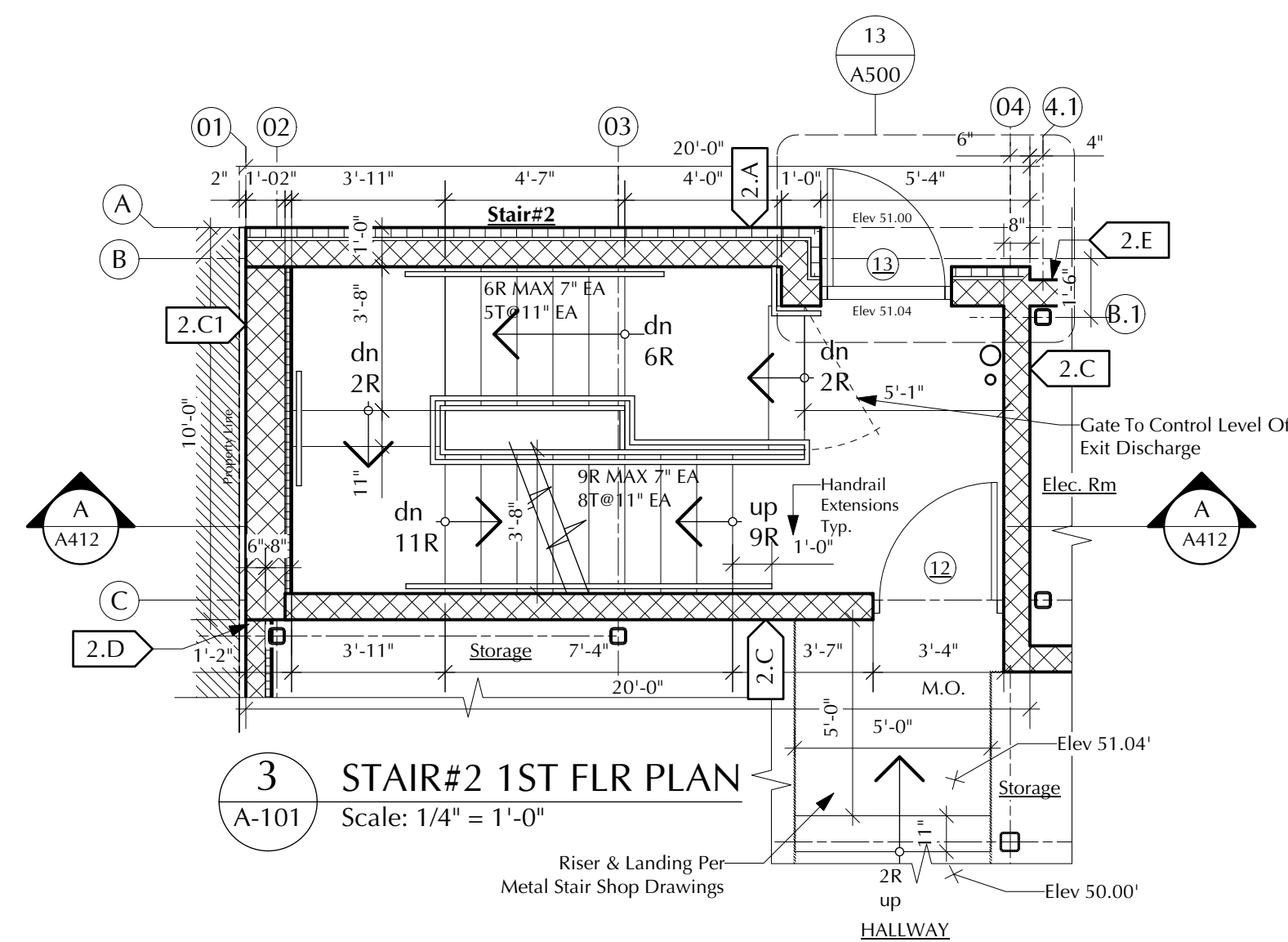
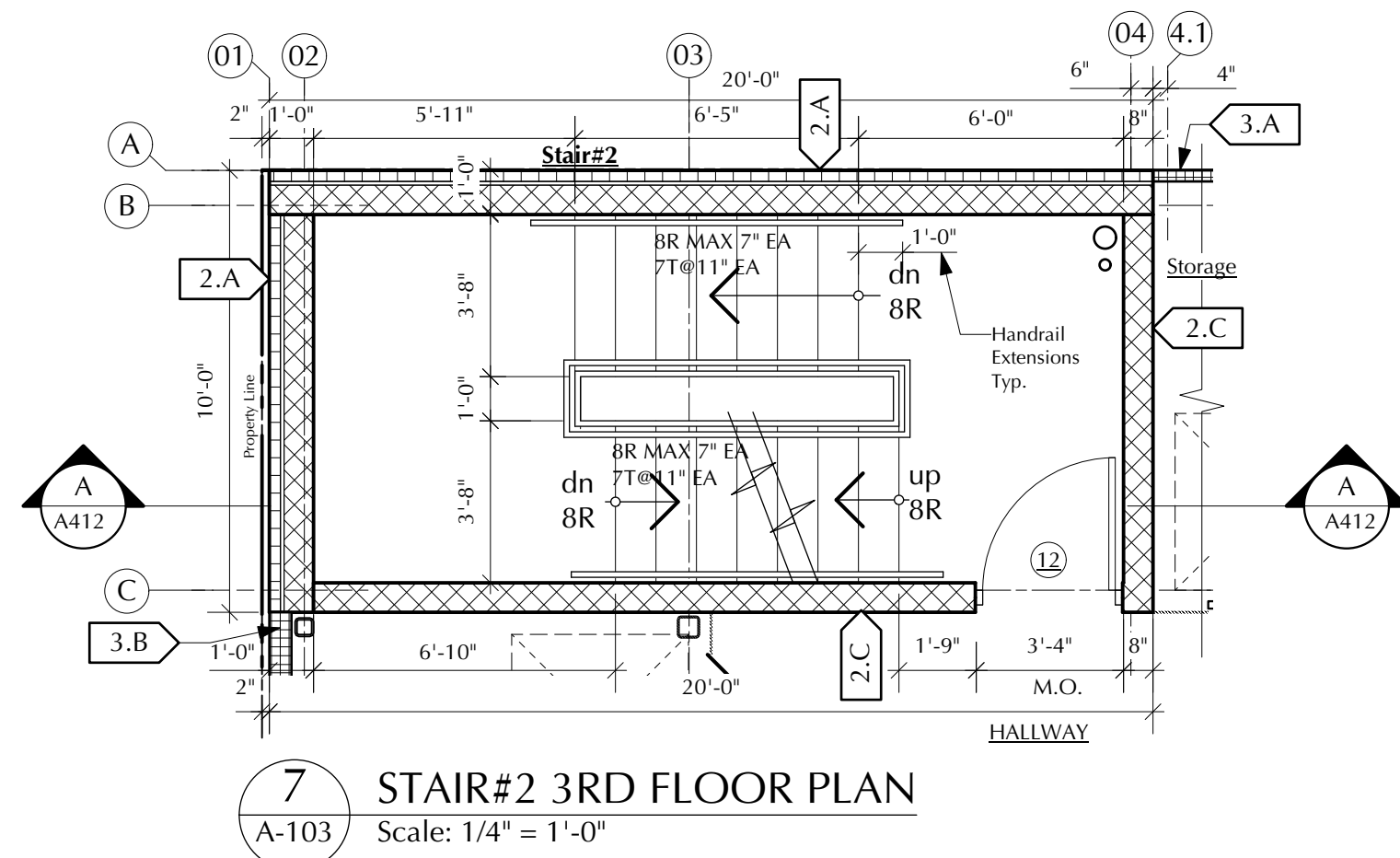
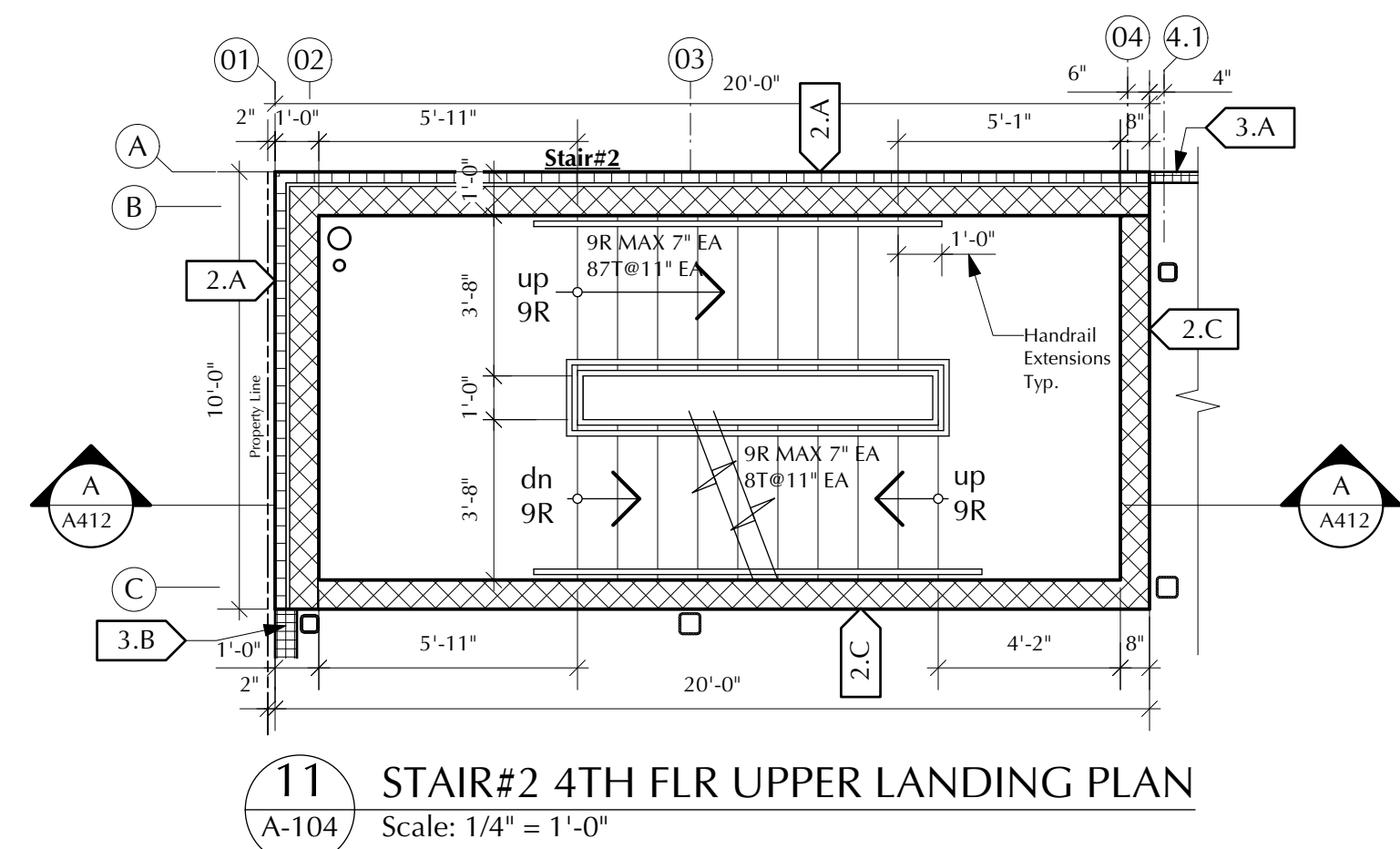
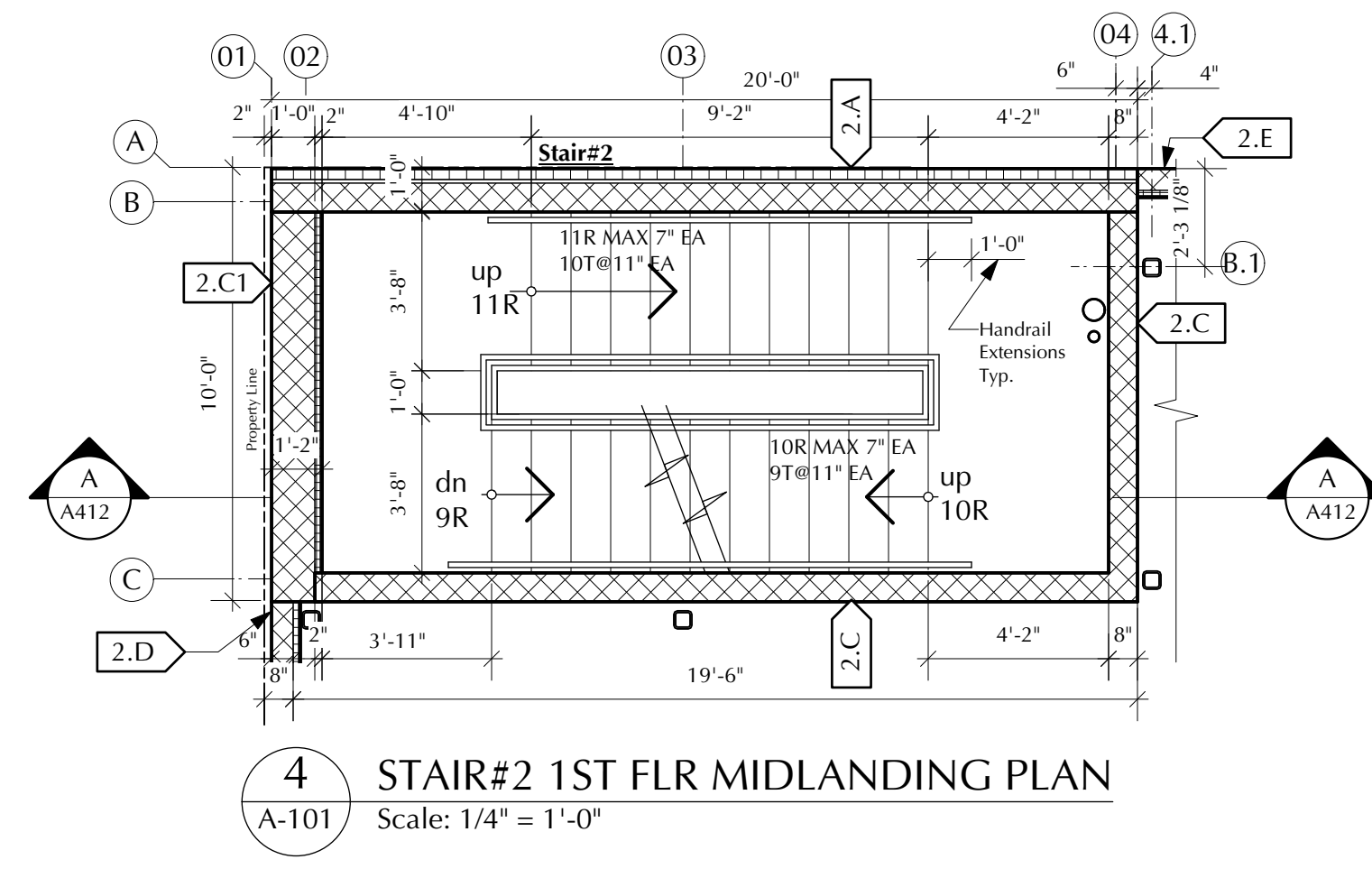
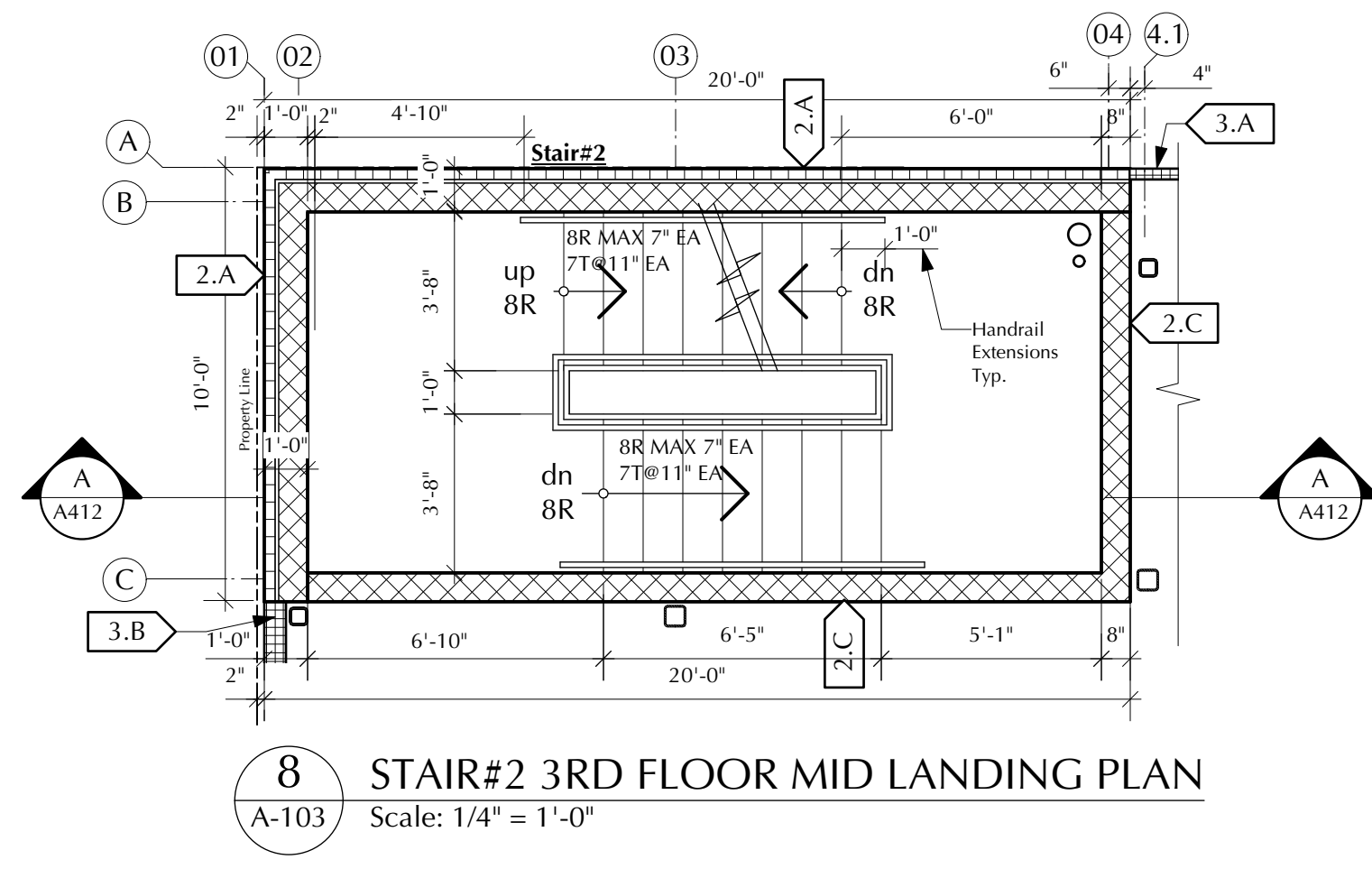
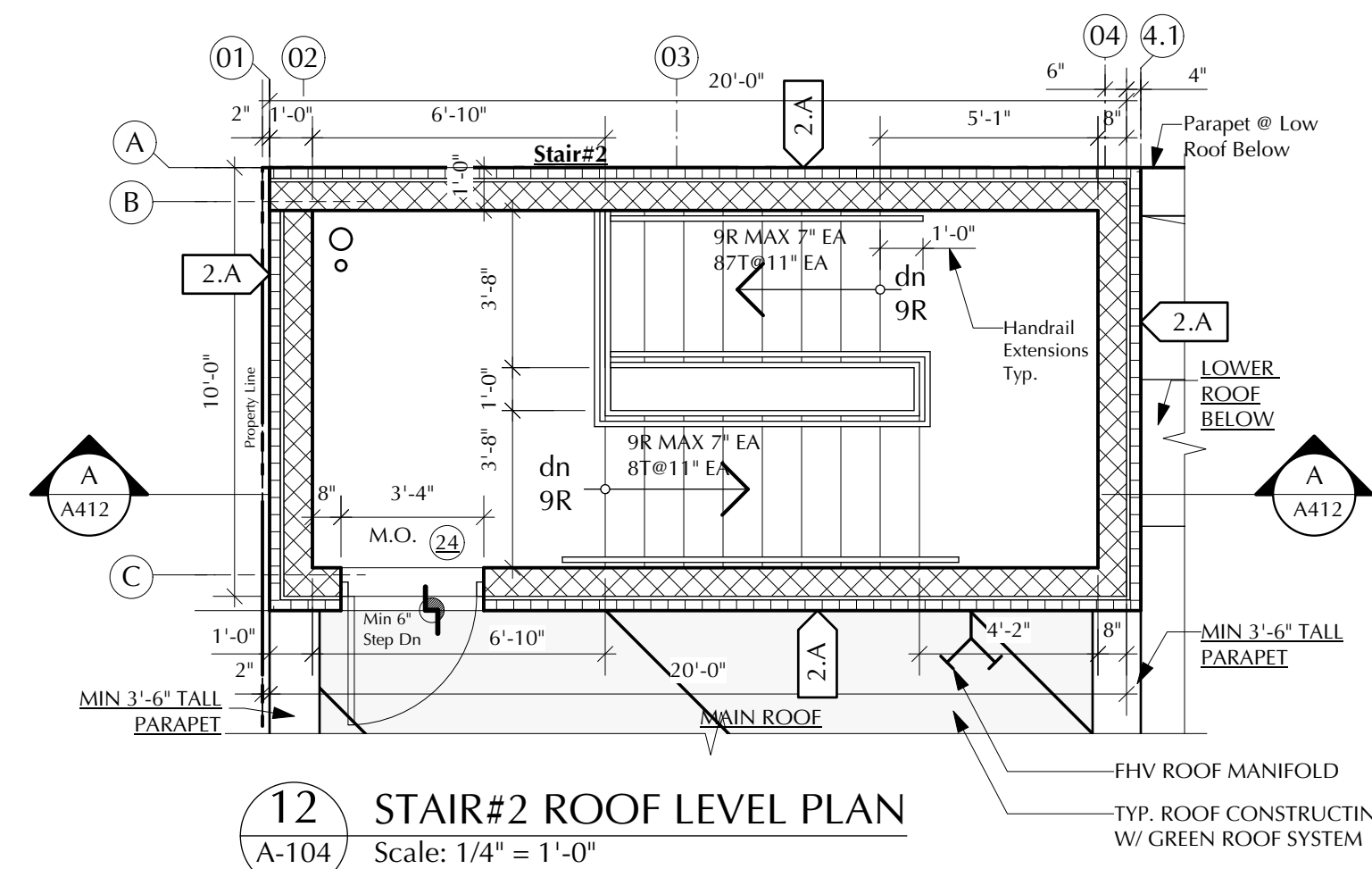
© Butz•Wilbern Ltd. 2019

STAIR #2
PLANS

A-41 1.00

38 OF 48

19010



TYPICAL STAIR NOTES :

- STANDPIPES DO NOT ENCROACH INTO THE REQUIRED MEANS OF EGRESS OF THE STAIRS

ISSUE DATE	
1 Permit Set	3/23/20
2 PAA	11/22/21

REVISION DATE	
3 RFI 004	3/3/21

Safe N Lock
1454 39TH ST
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK



Planning | Architecture
Interiors | Property Visioning

800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010

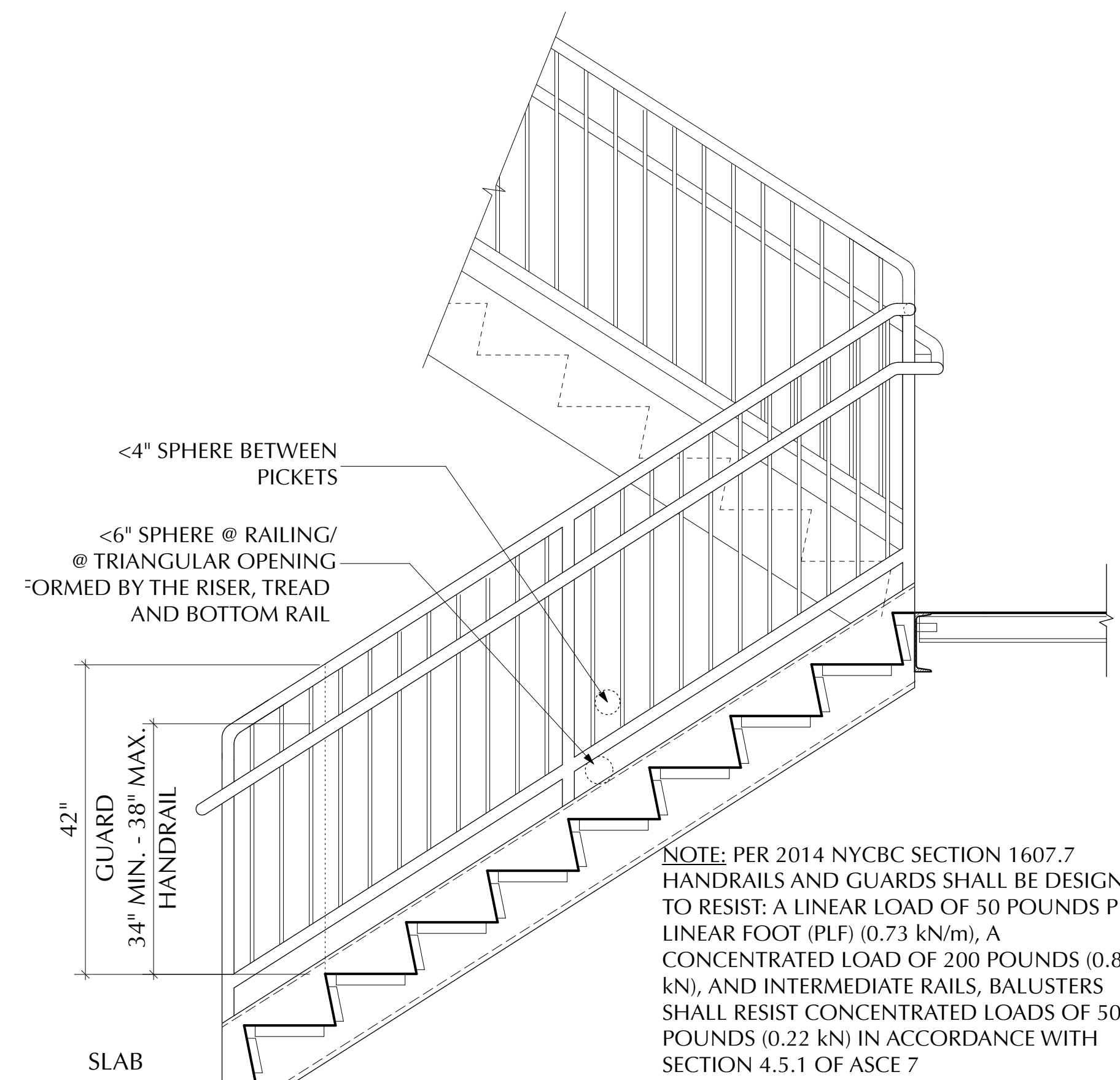


Stair#2 Section
& Typ. Details

A-412.01

39 OF 49
19010

Shabnam Shirinpour
Building
APPROVED
Under Directive 2 of 1975
AMENDED APPLICATION
Date: 04/07/2022
NYC Development Hu

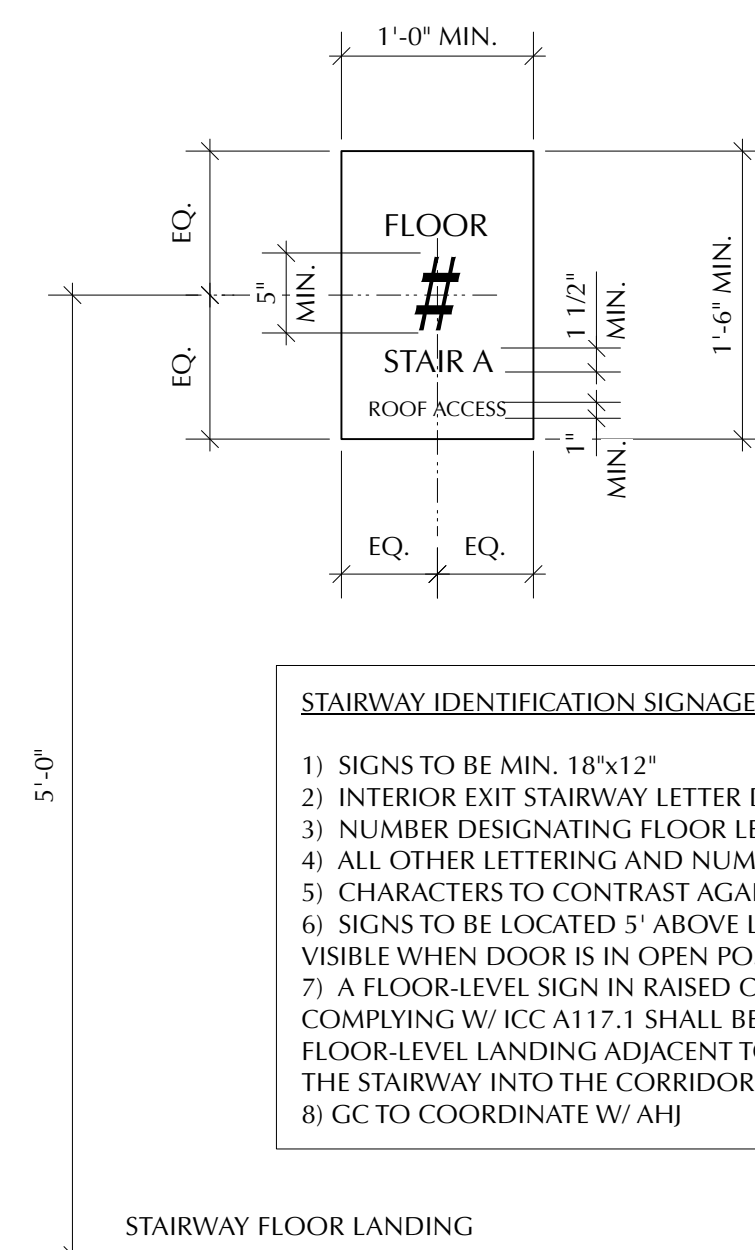


STAIR NOTES:

1. Stair fabricator shall submit shop drawings for stairs and all associated components
2. Max riser height = 7"
Min tread depth = 11"
3. Stair & rails shall conform to all NYCBC, IBC and ANSI egress and life safety requirements.
4. See stair plans for dimensions at specific locations.
5. Handrail must be continuous without vertical drops.
6. All guard rails & hand rails to comply w/ 2014 NYCBC 1607.7, 1607.1.1, 1607.1.2 loading requirements

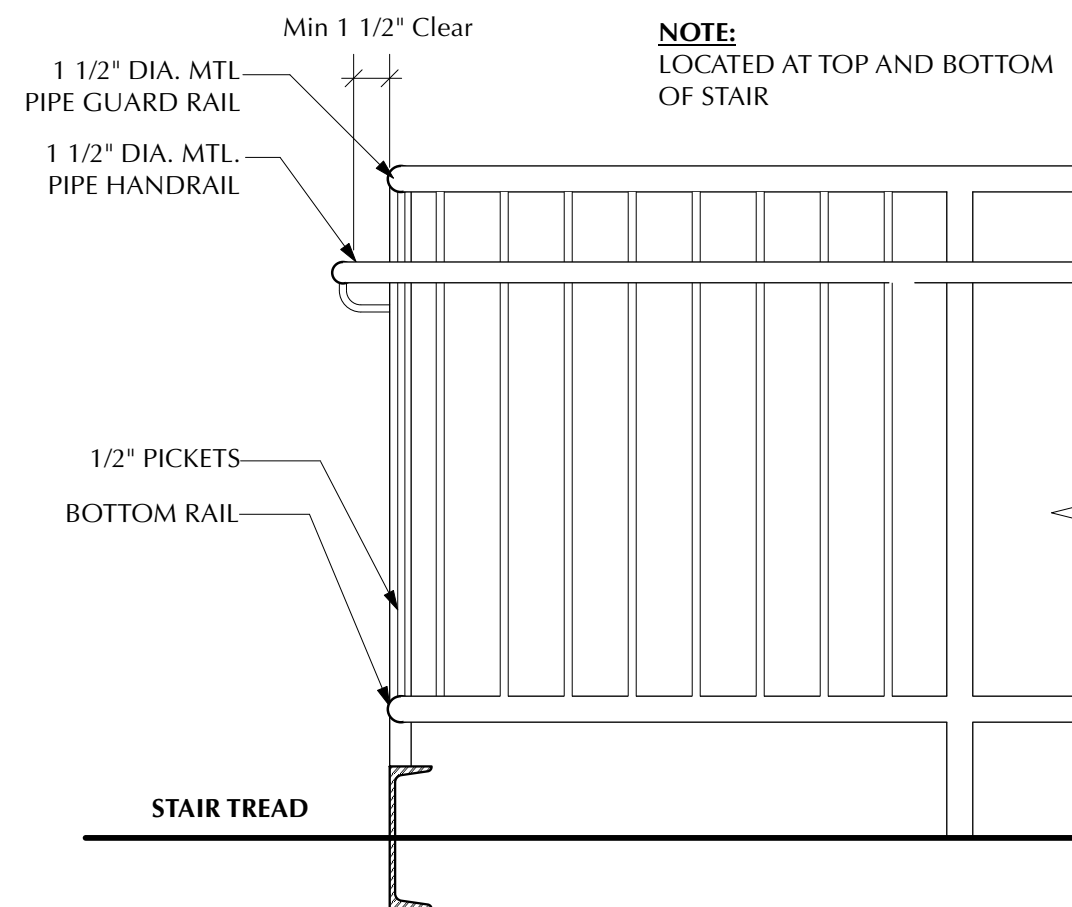
7STAIR DETAIL

A-412 Scale: 3/4" = 1'-0"



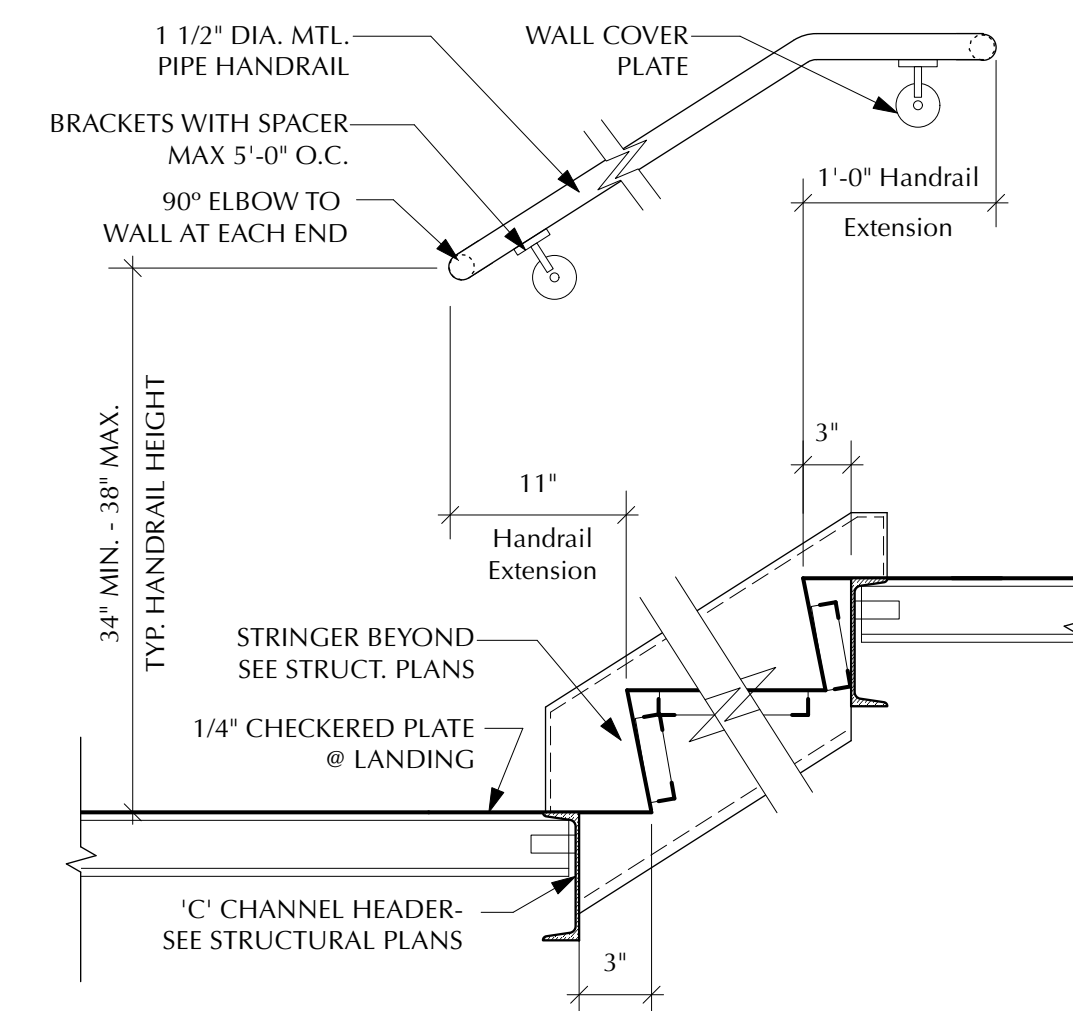
6STAIR SIGNAGE

A-412 Scale: 1" = 1'-0"



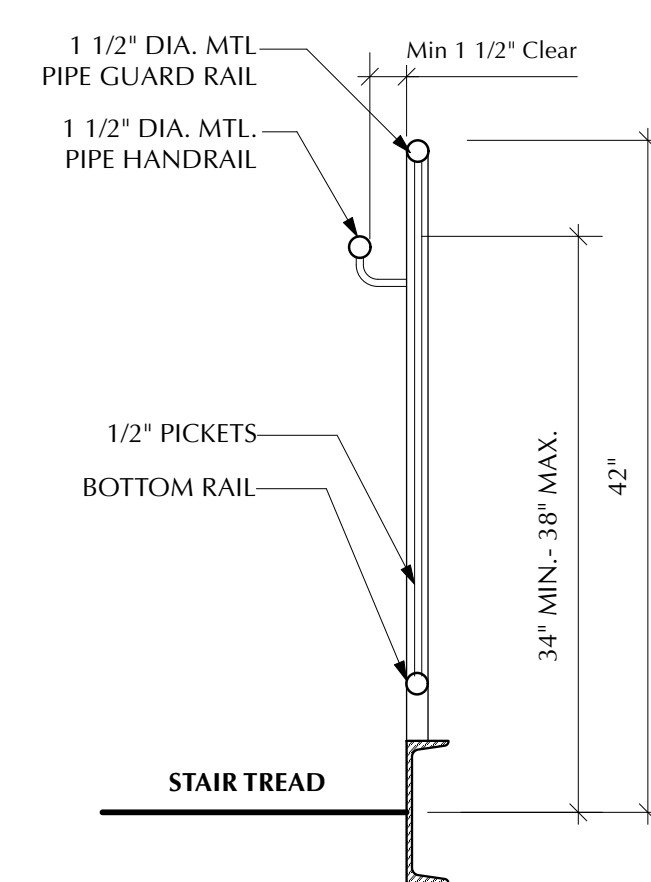
5STAIR TOP/BOTTOM GUARDRAIL

A-412 Scale: 1" = 1'-0"



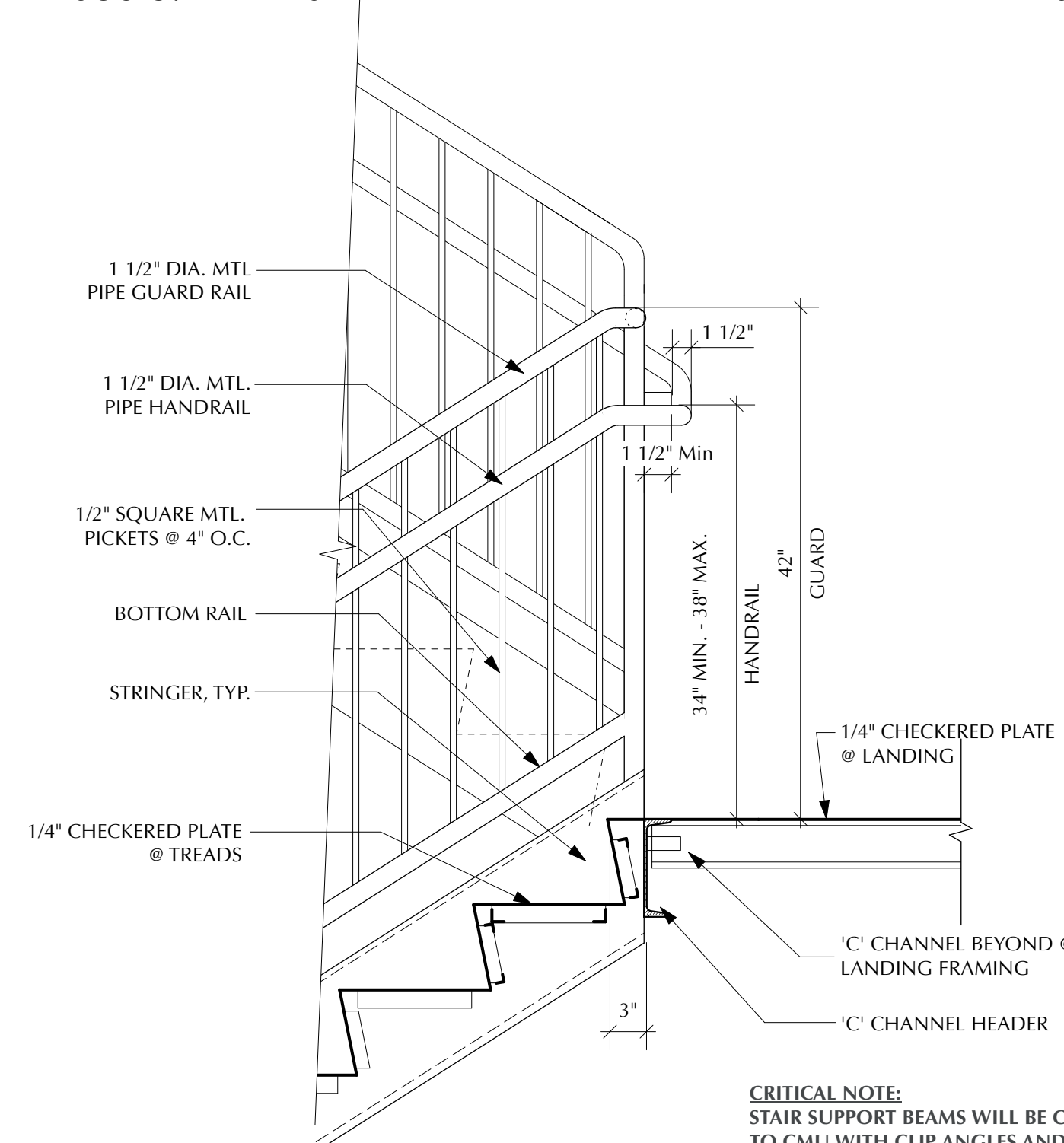
4STAIR HANDRAIL EXTENTIONS

A-412 Scale: 1" = 1'-0"



3HANDRAIL DETAIL

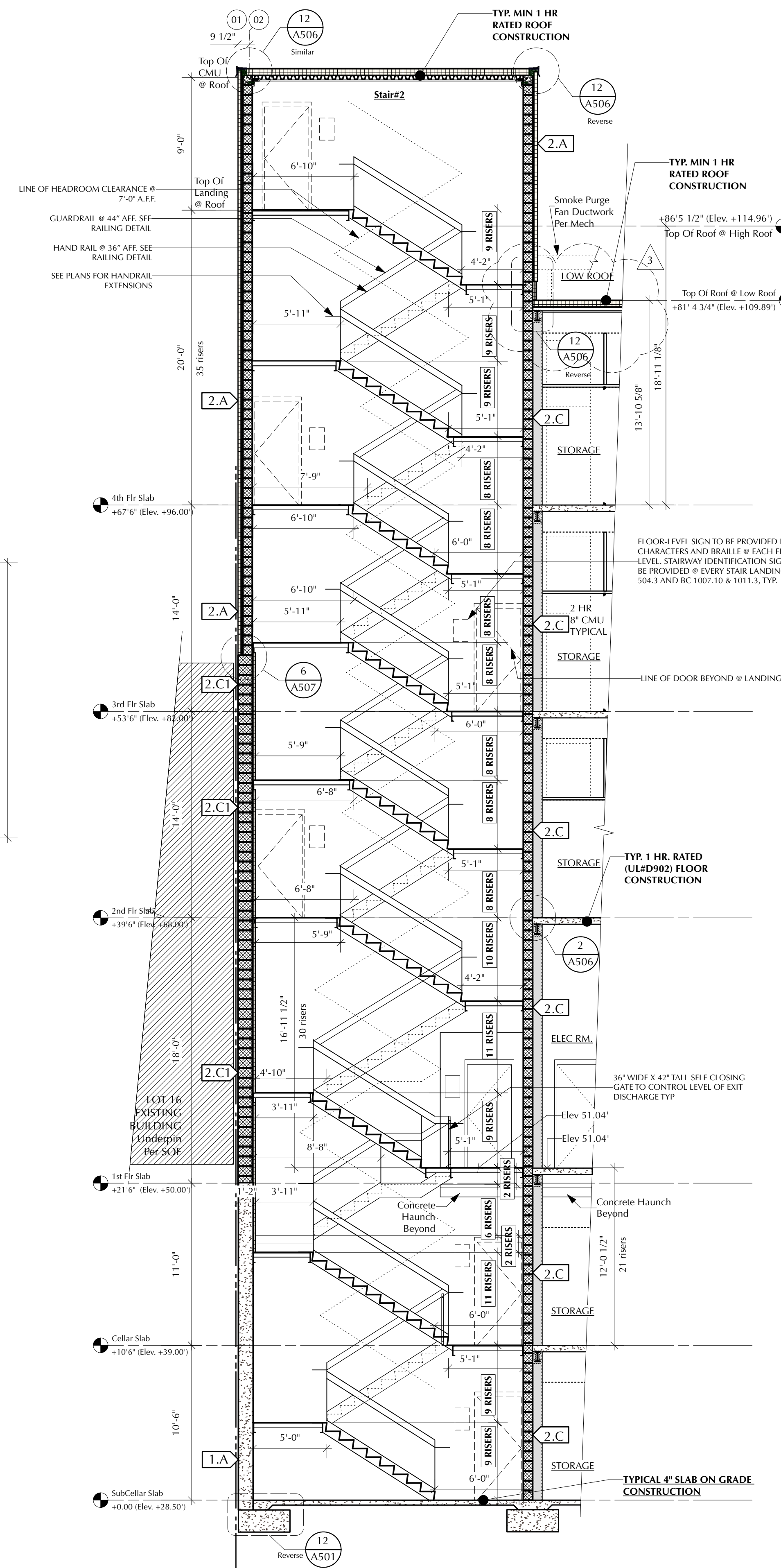
A-412 Scale: 1" = 1'-0"



CRITICAL NOTE:
STAIR SUPPORT BEAMS WILL BE CONNECTED
TO CMU WITH CLIP ANGLES AND BOLTS
SEE STRUCTURAL

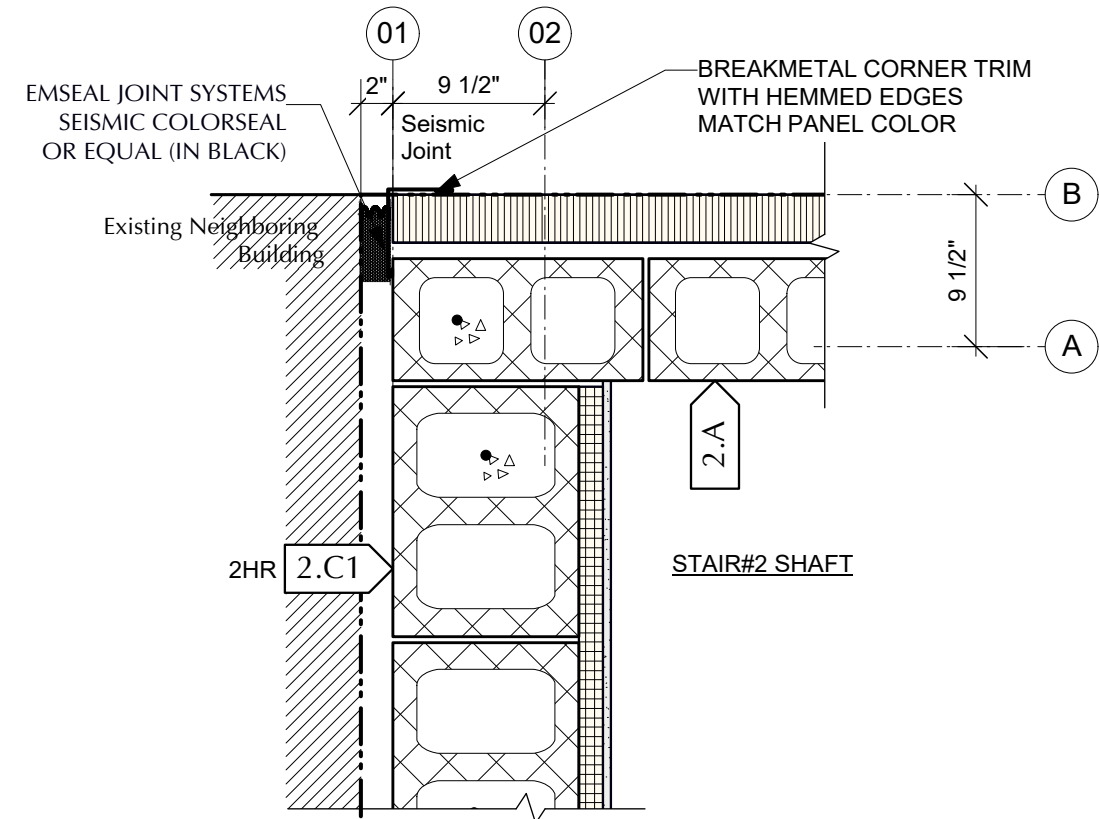
2HANDRAIL DETAIL

A-412 Scale: 1" = 1'-0"

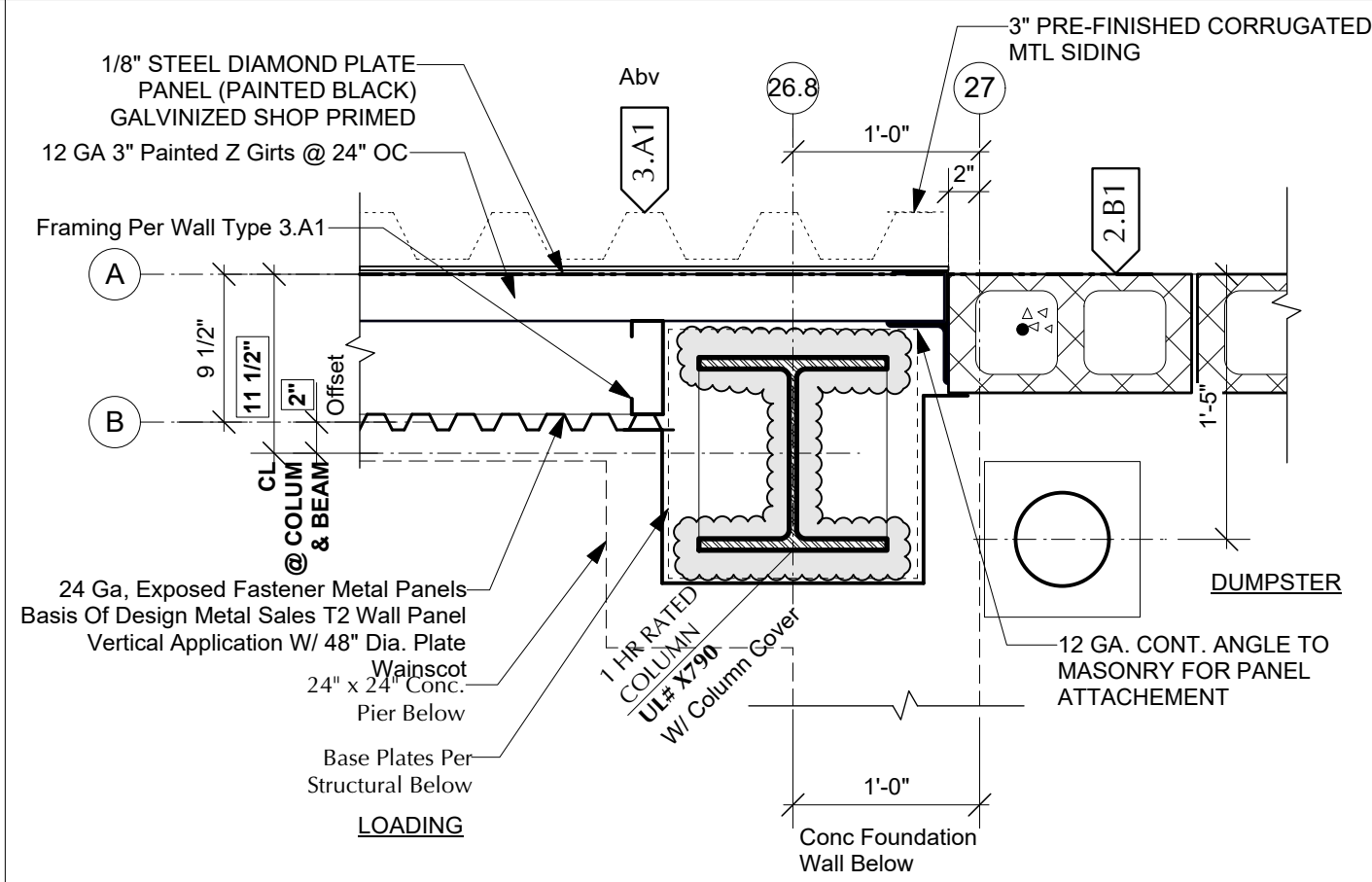


1 STAIR #2 SECTION A-A

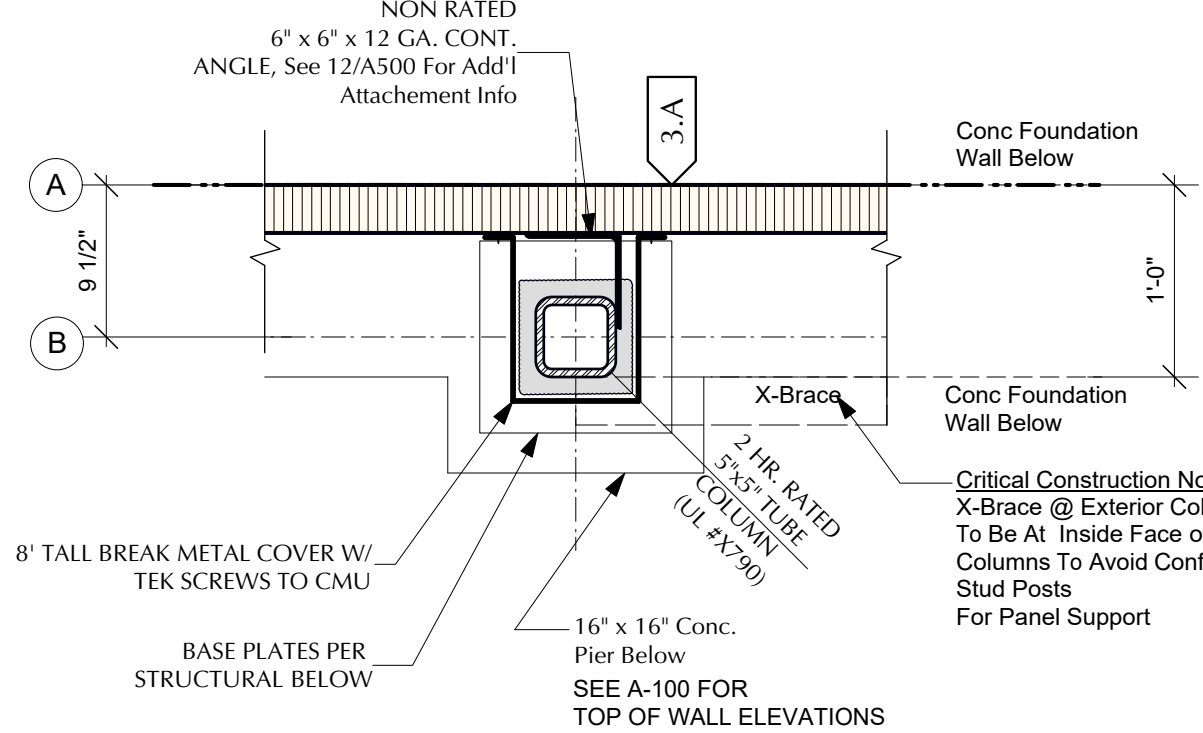
A-411 Scale: $3/16" = 1'-0"$



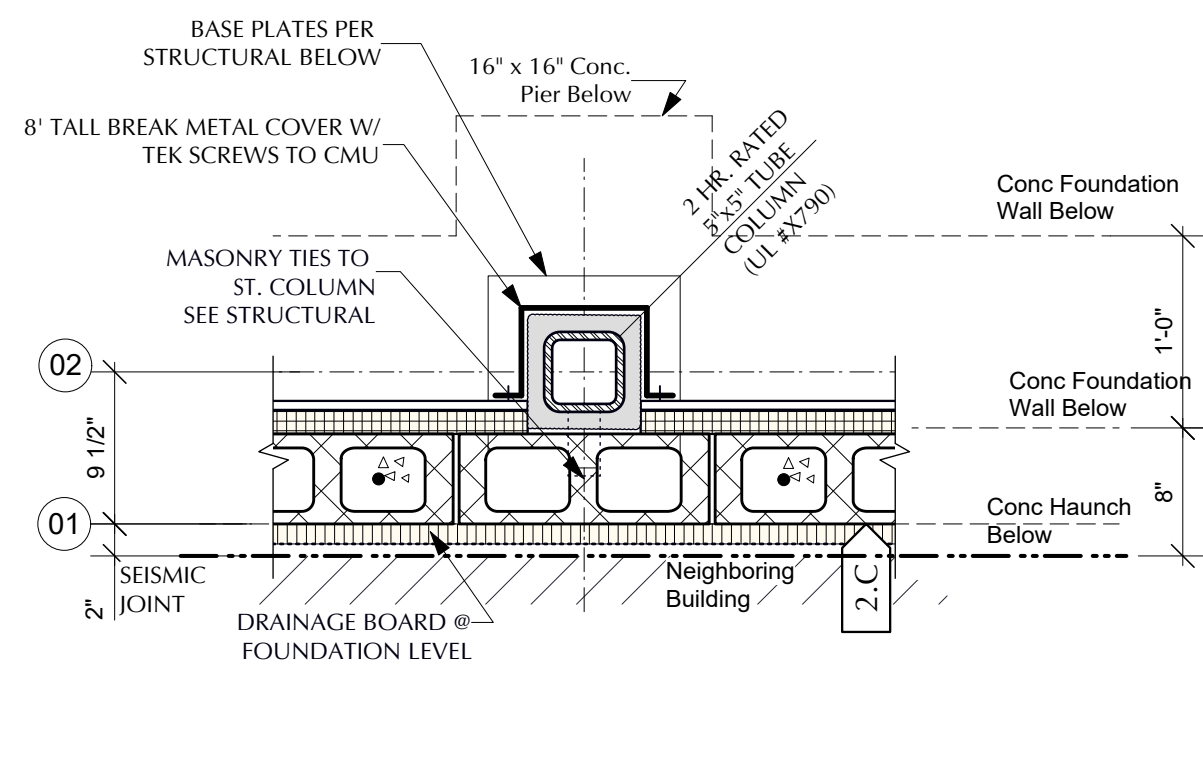
1 Seismic Joint Plan Detail @ Grid 01
Scale: 1" = 1'-0"



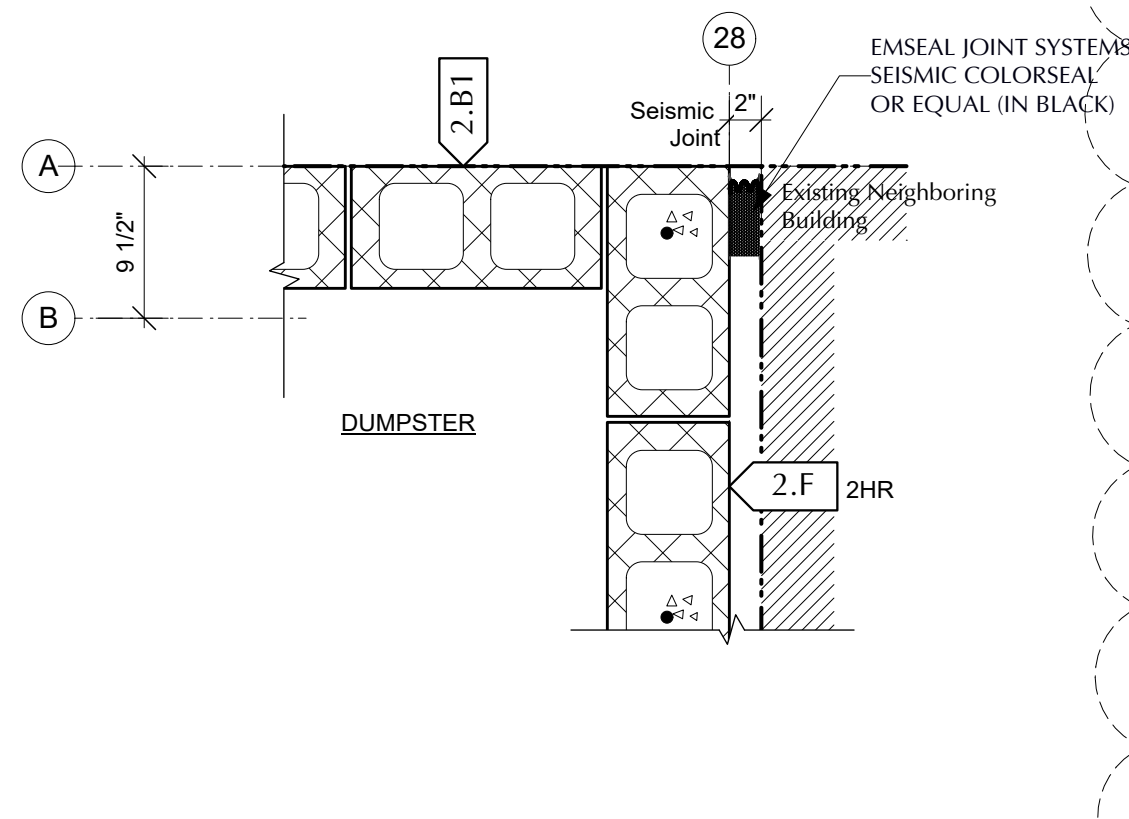
2 1st Flr Plan Detail @ Grid 26.8 & Grid A
Scale: 1" = 1'-0"



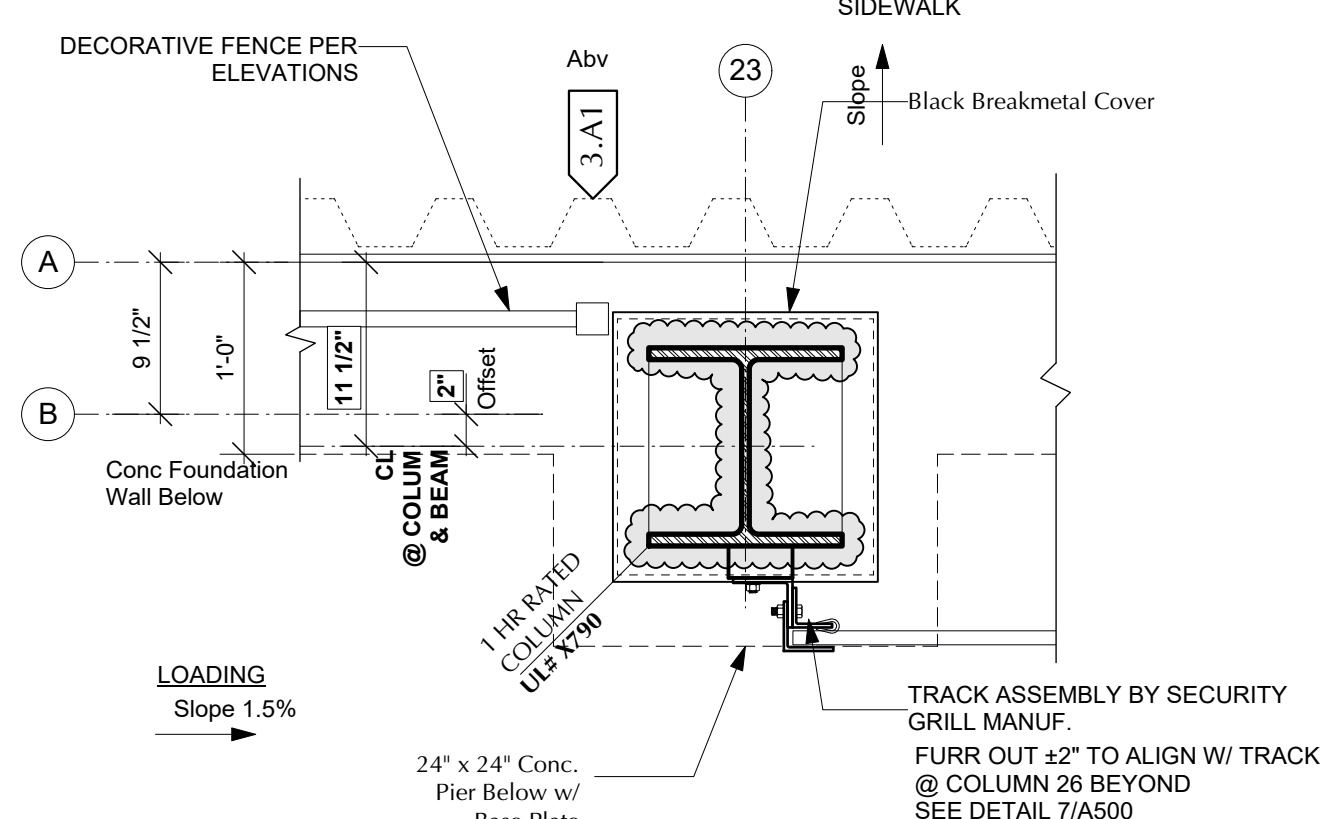
3 6" CMU Non Rated Front Wall Plan Detail
Scale: 1" = 1'-0"



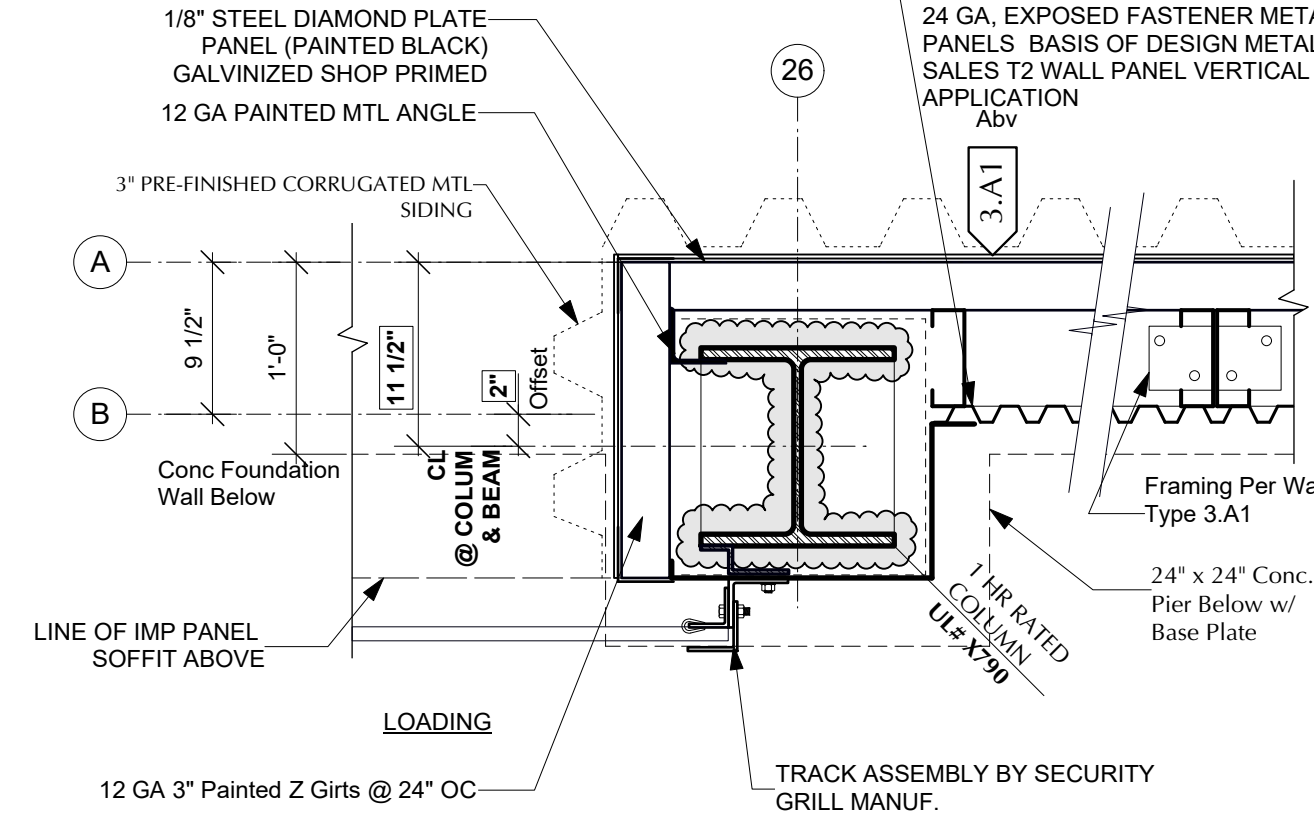
4 6" CMU 2 Hr Rated Wall Plan Detail
Scale: 1" = 1'-0"



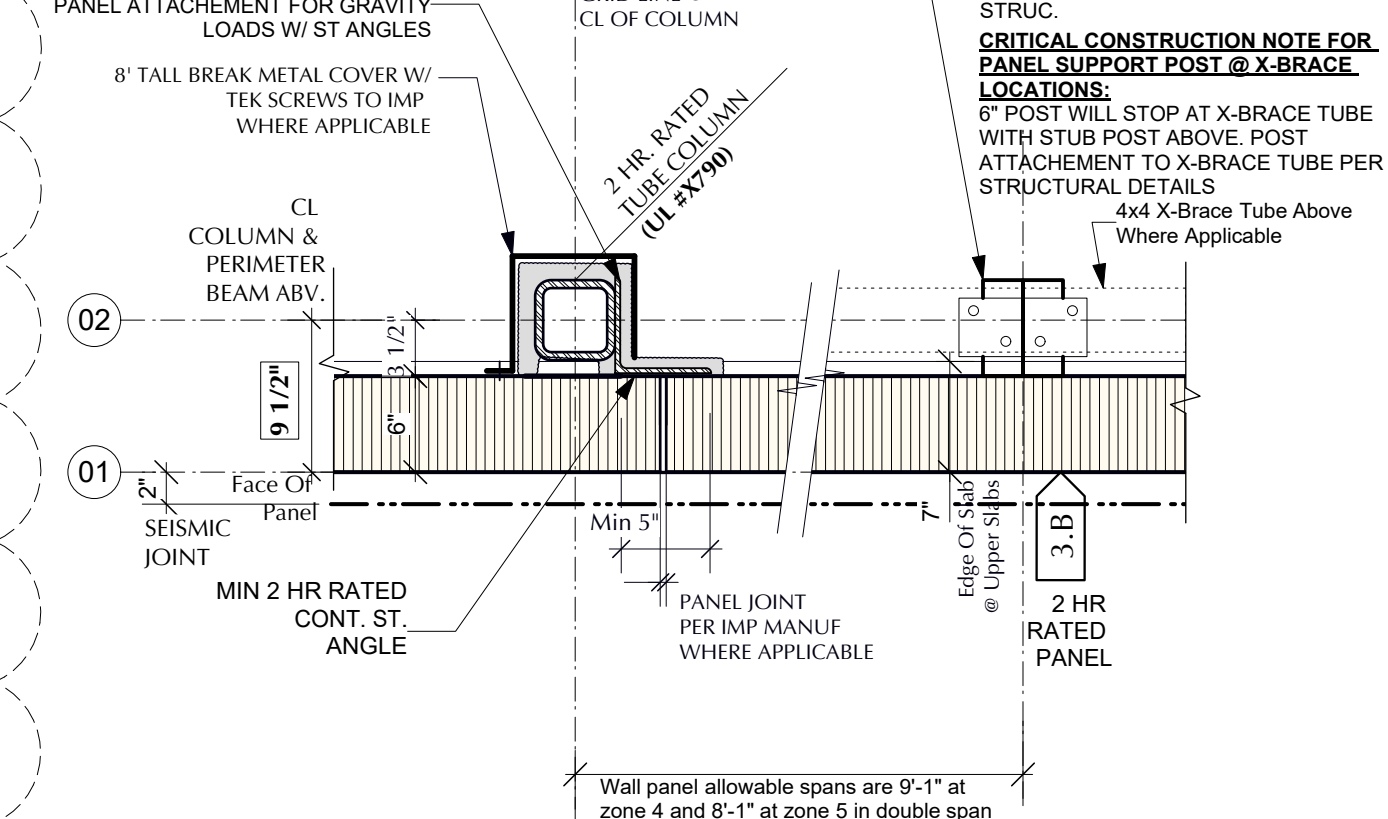
5 Seismic Joint Plan Detail @ Grid 28
Scale: 1" = 1'-0"



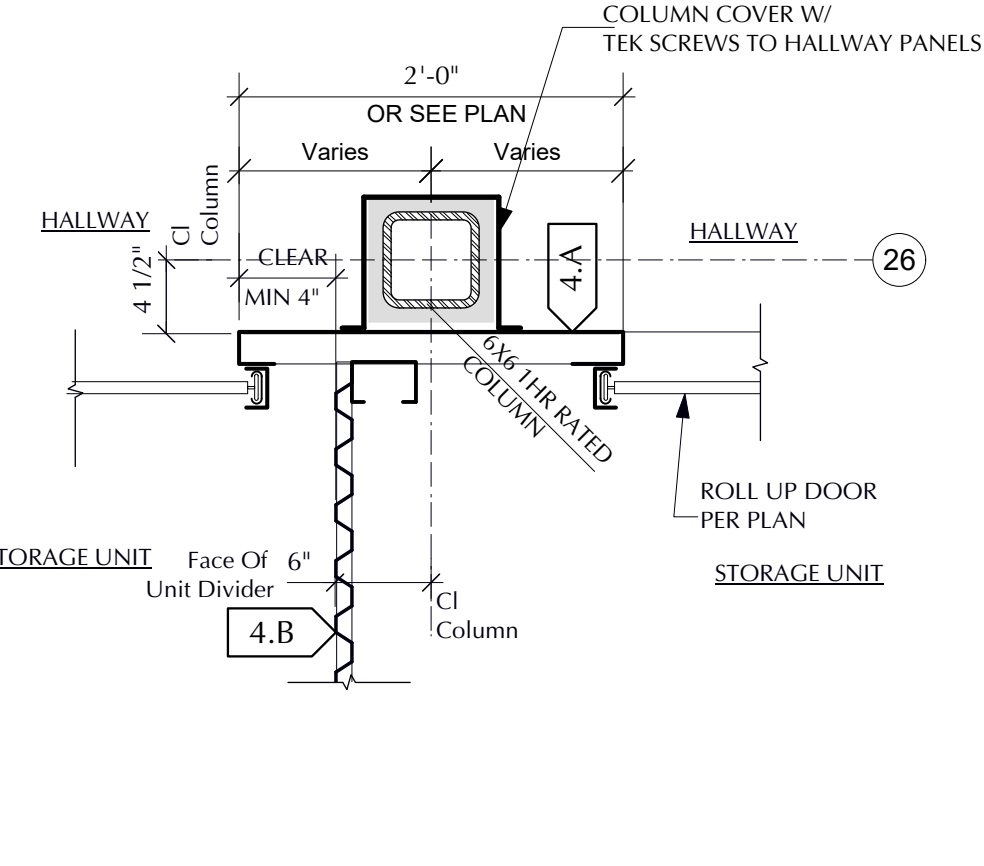
6 1st Flr Plan Detail @ Grid 23 & Grid A
Scale: 1" = 1'-0"



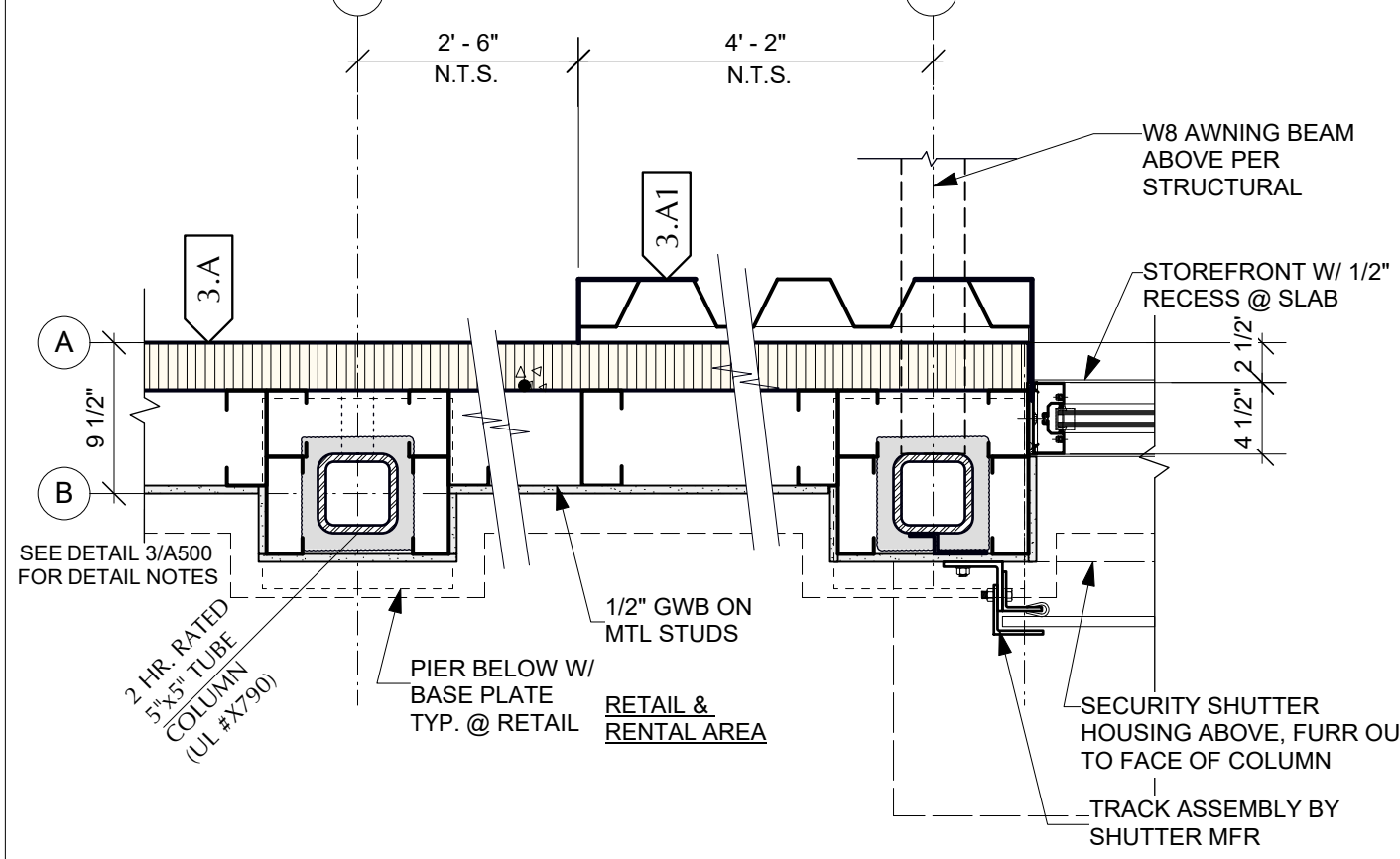
7 1st Flr Plan Detail @ Grid 26 & Grid A
Scale: 1" = 1'-0"



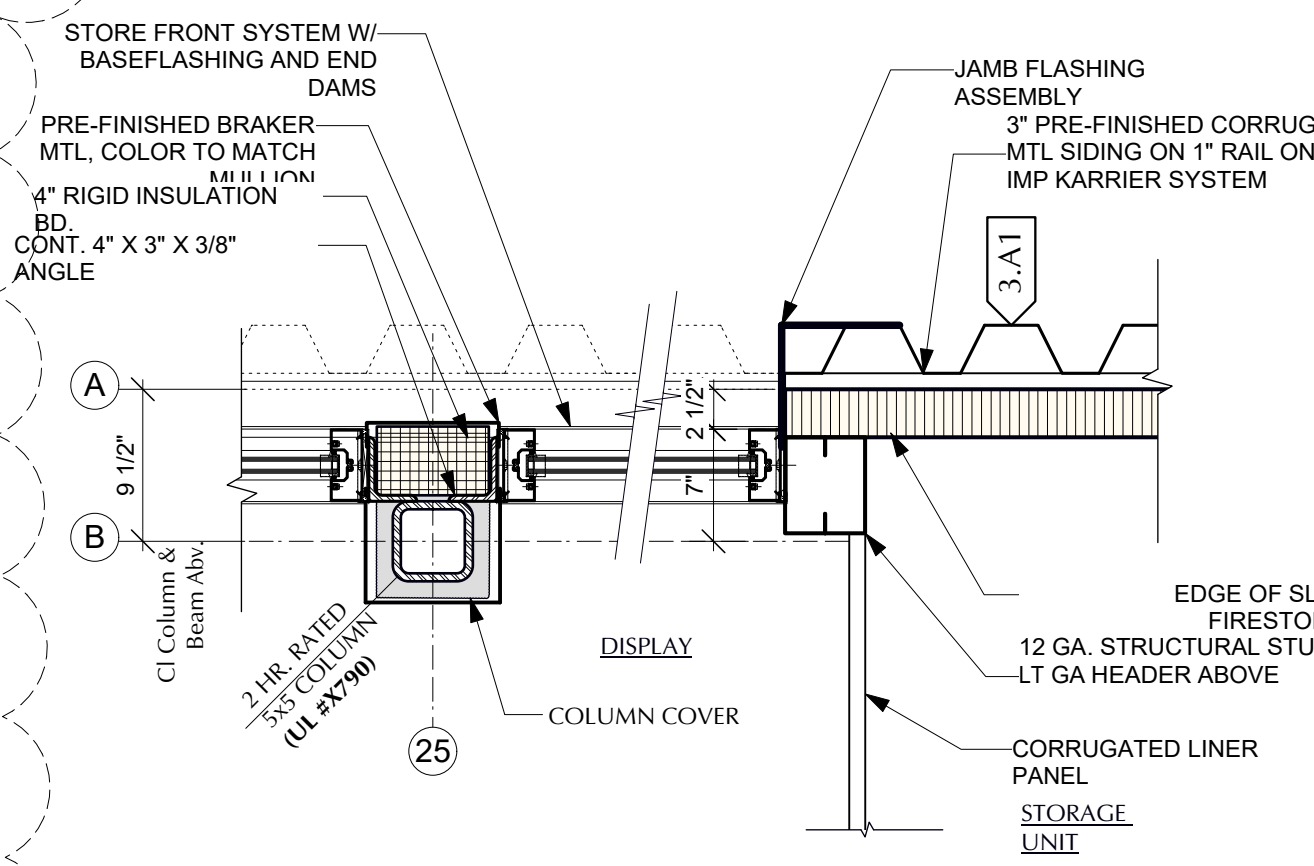
8 Typ. Rated Panel Attachment Detail
Scale: 1" = 1'-0"



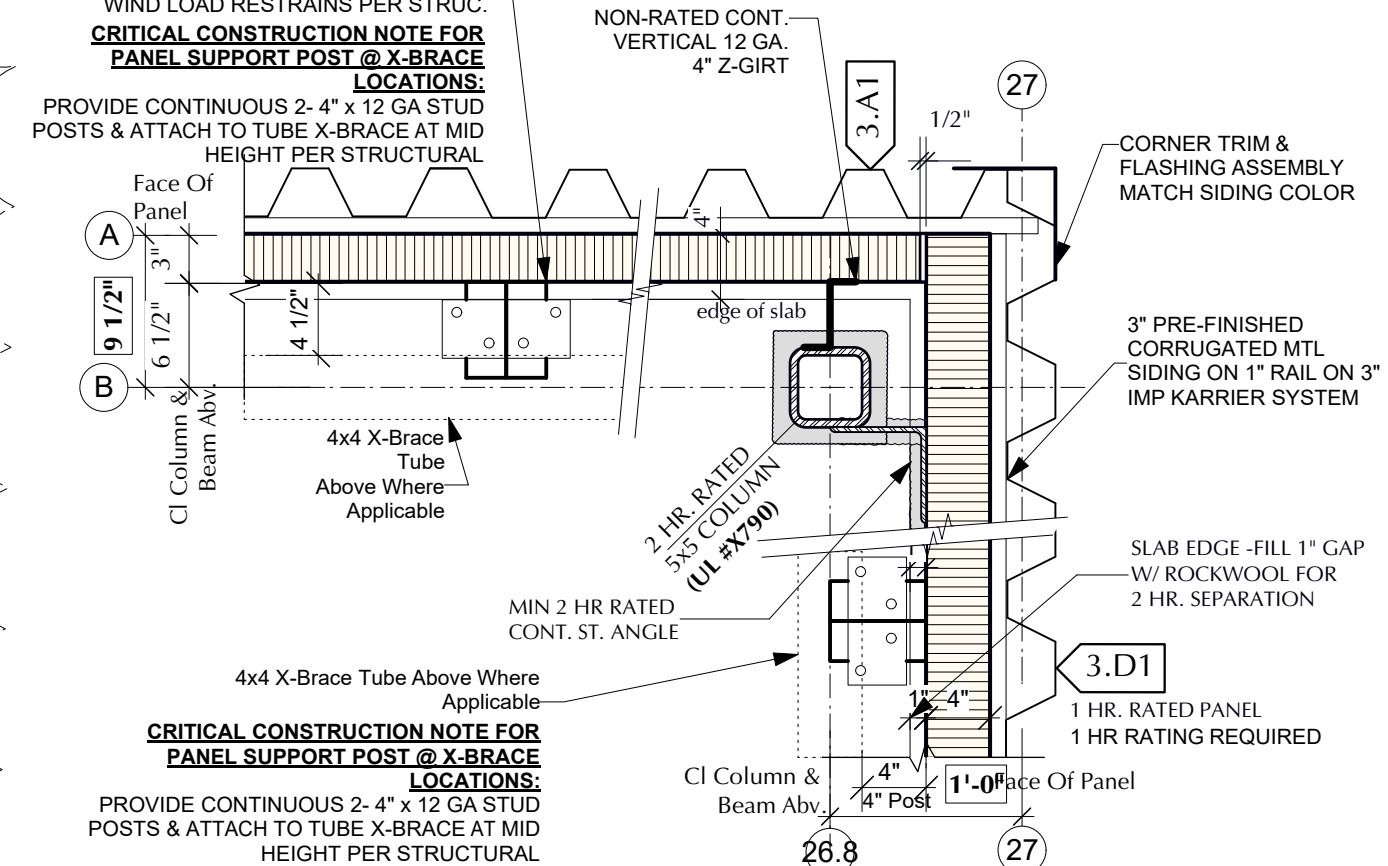
9 SubCellar & Cellar Hallway Panel Along Grid 26
Scale: 1" = 1'-0"



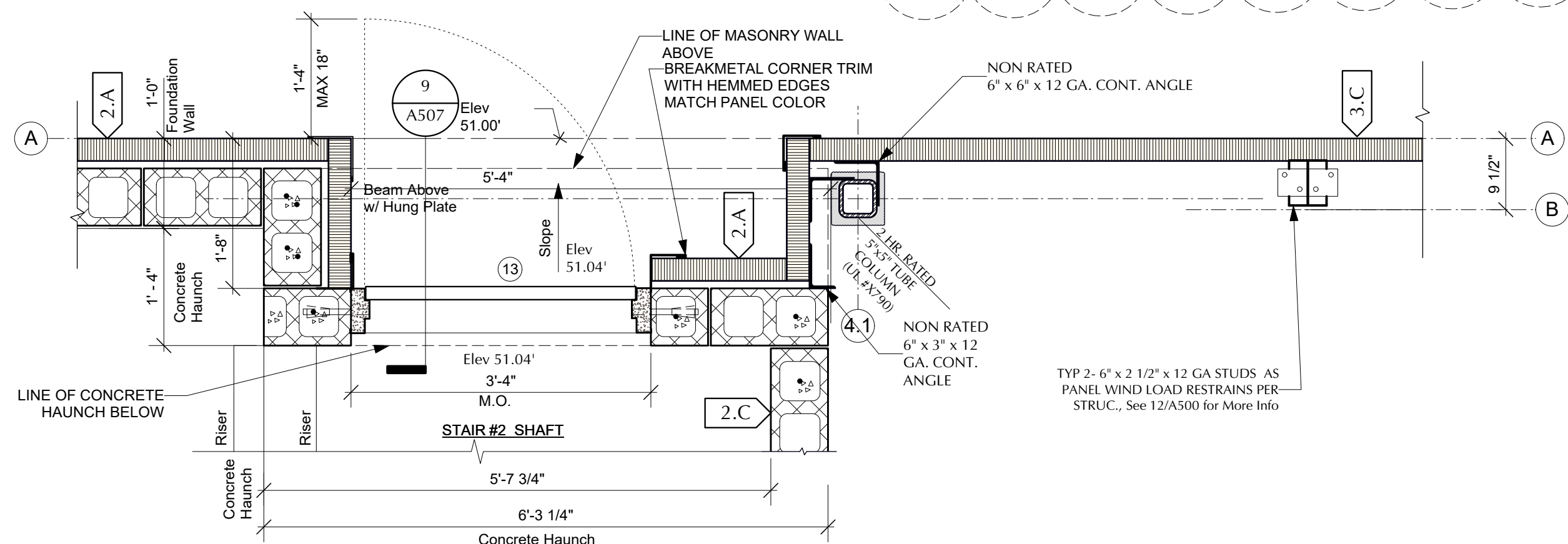
10 Retail Exterior Wall Plan Detail @ CMU & Panel Walls
Scale: 1" = 1'-0"



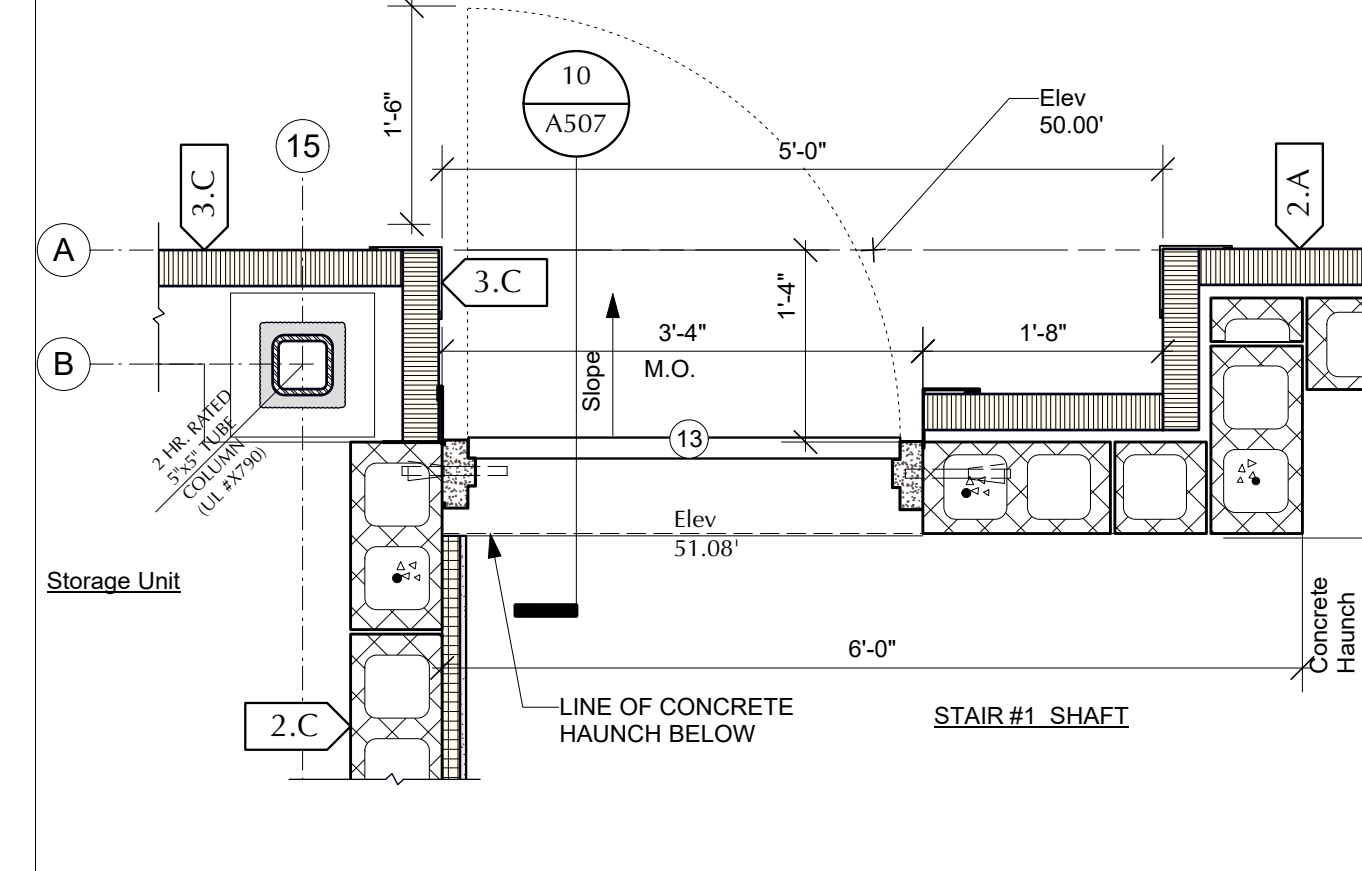
11 Plan Detail @ Display Storefront
Scale: 1" = 1'-0"



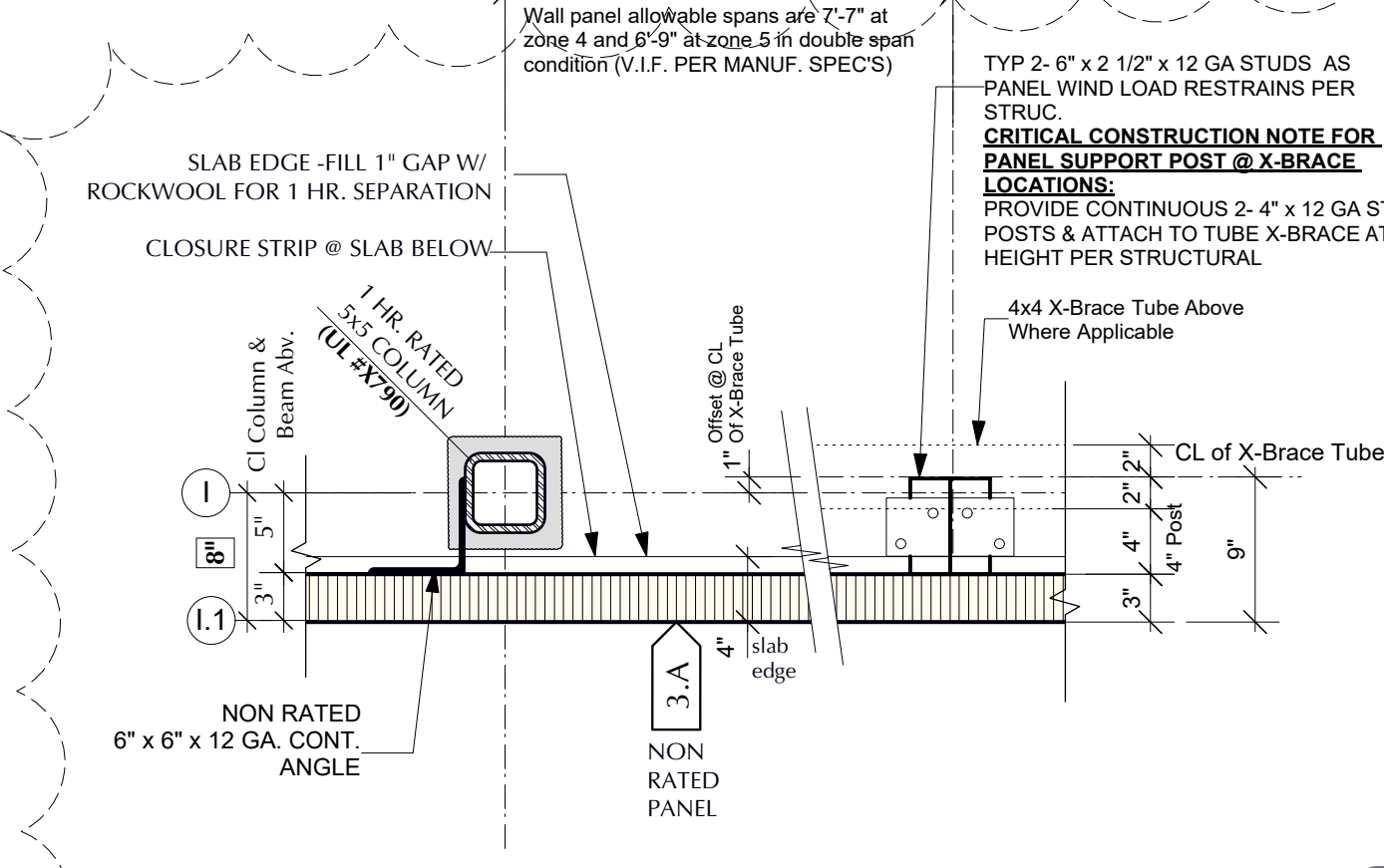
12 Non Rated & Rated Panel Corner Attachment Detail
Scale: 1" = 1'-0"



13 Plan Detail @ Stair #2 Shaft Exit Door & Elec Rm Door
Scale: 3/4" = 1'-0"



14 Plan @ Stair #1 Recessed Exit Door
Scale: 3/4" = 1'-0"



16 Typ. Non Rated Panel Attachment Detail
Scale: 1" = 1'-0"

ISSUE DATE		
1 Permit Set	3/23/20	
2 PAA	11/22/21	
REVISION DATE		
3 RFI 004	3/3/21	

1454 39th. Self Storage

Safe N Lock
1454 39TH ST
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK

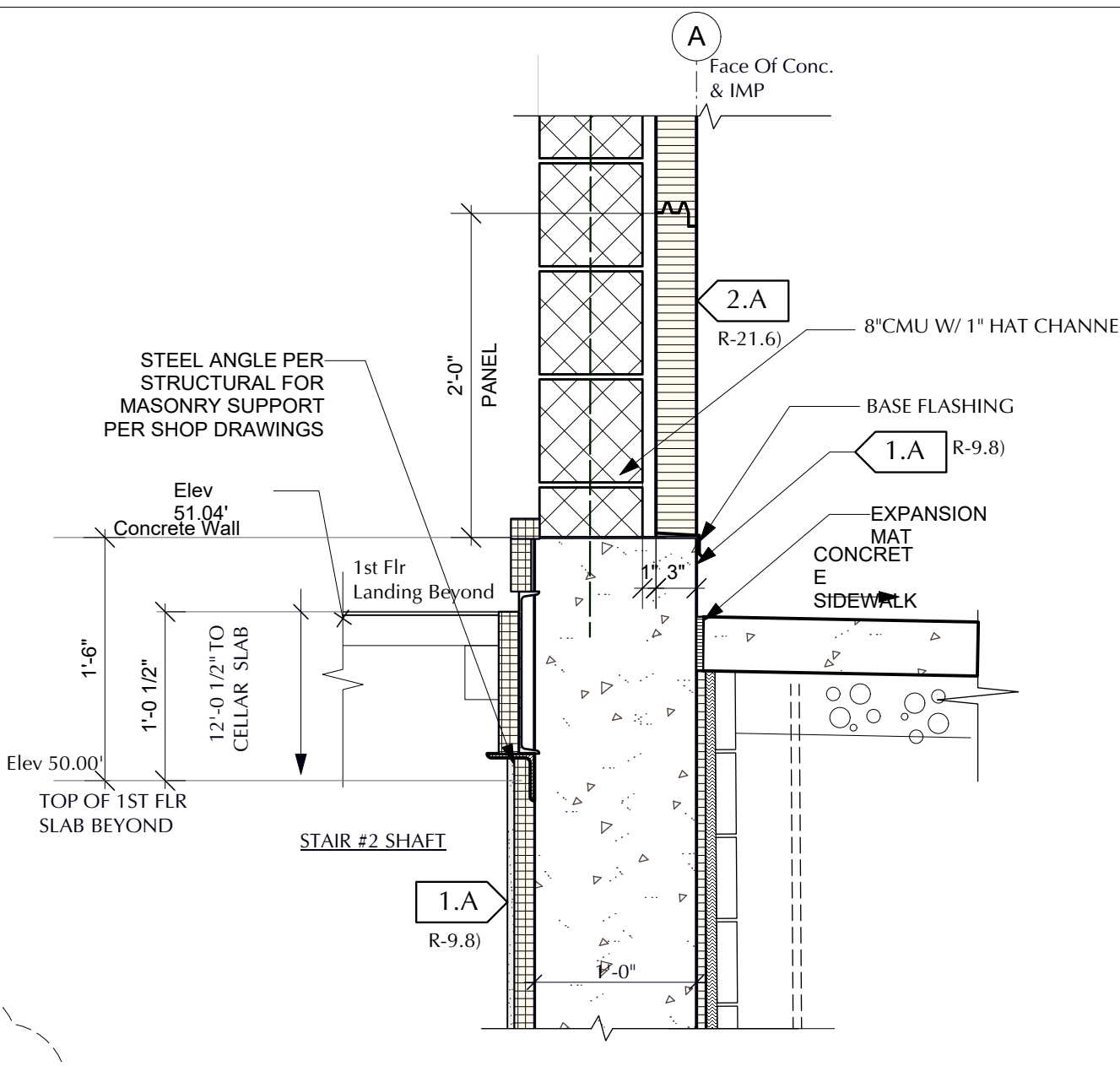
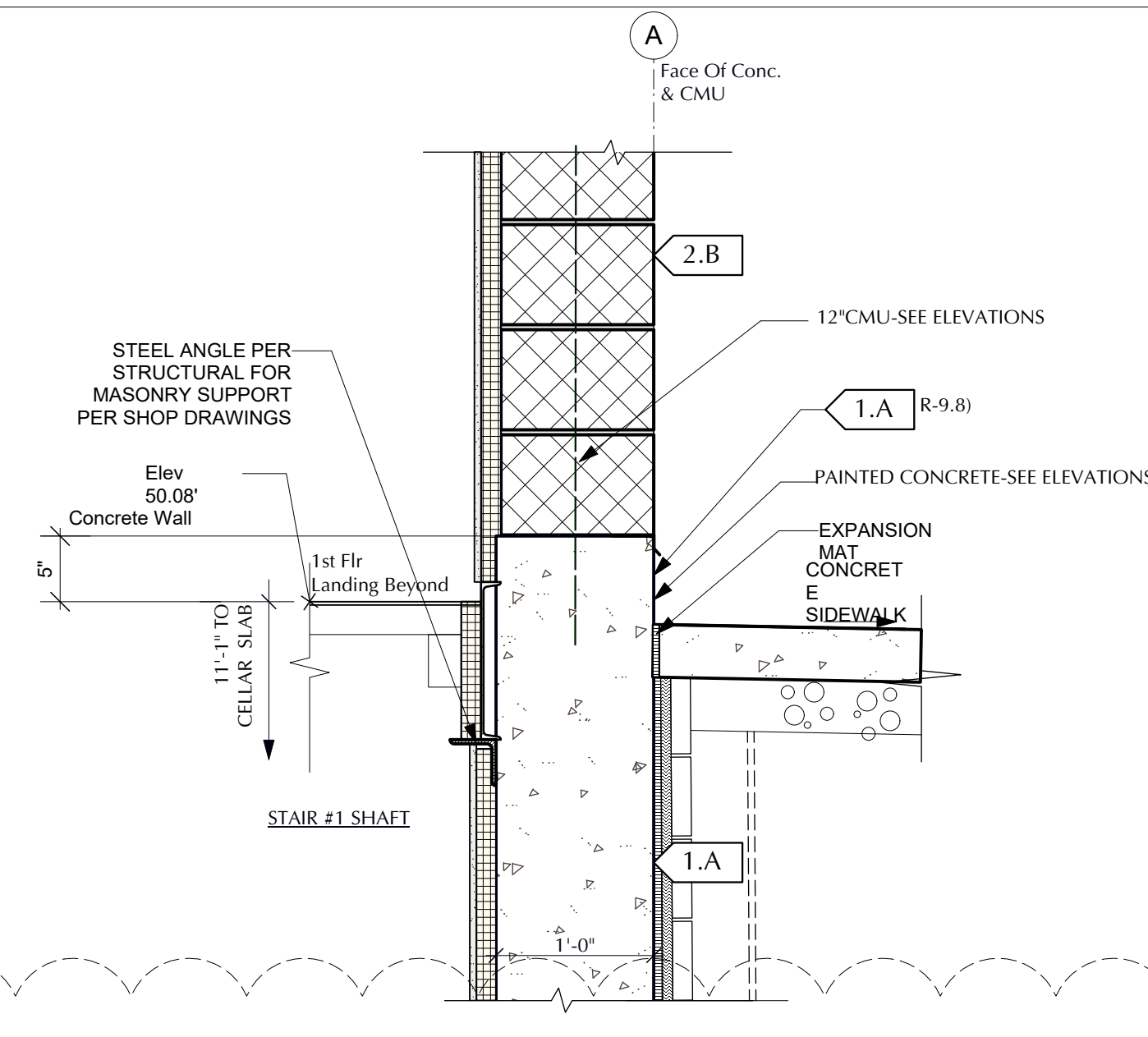
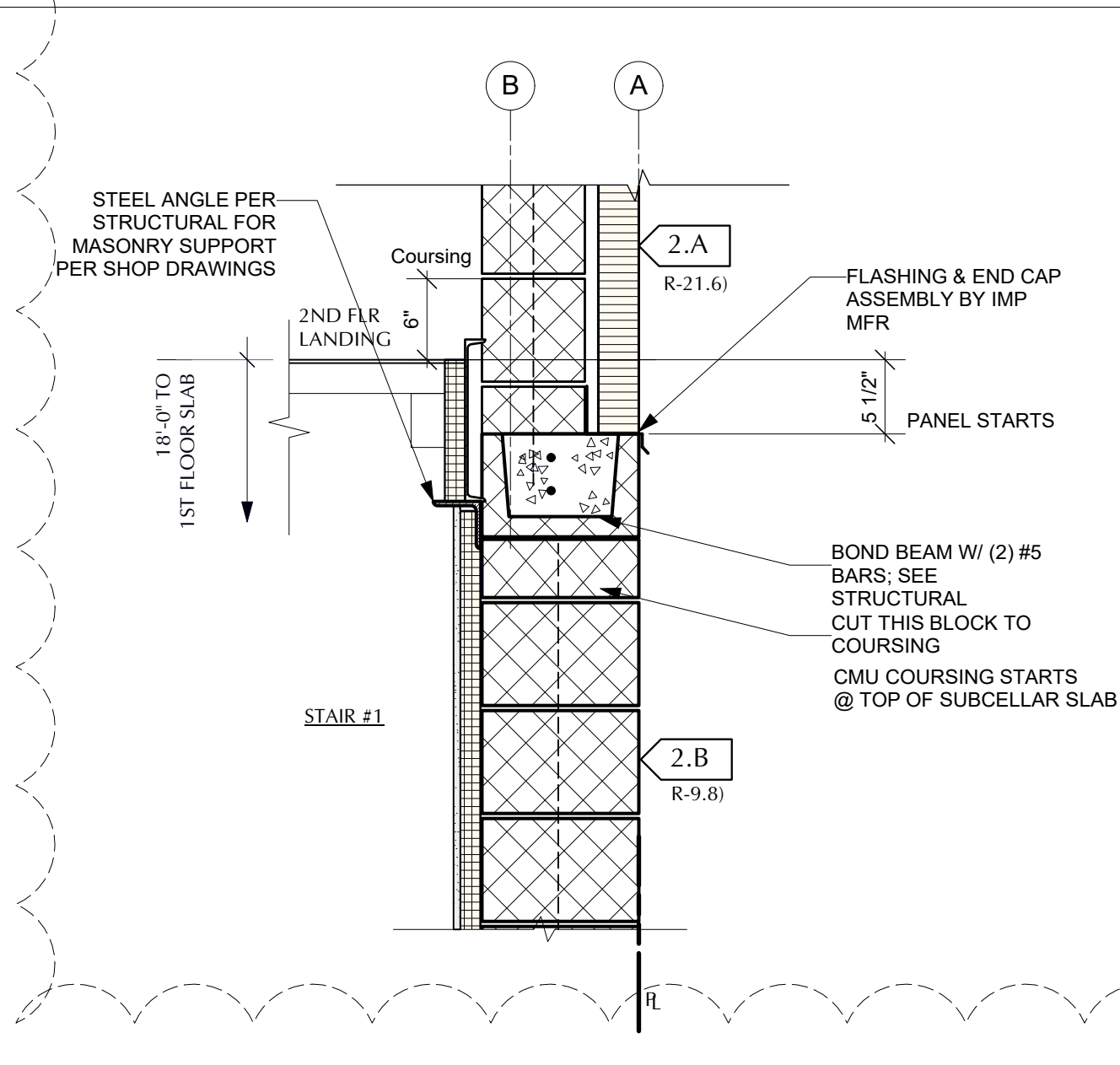
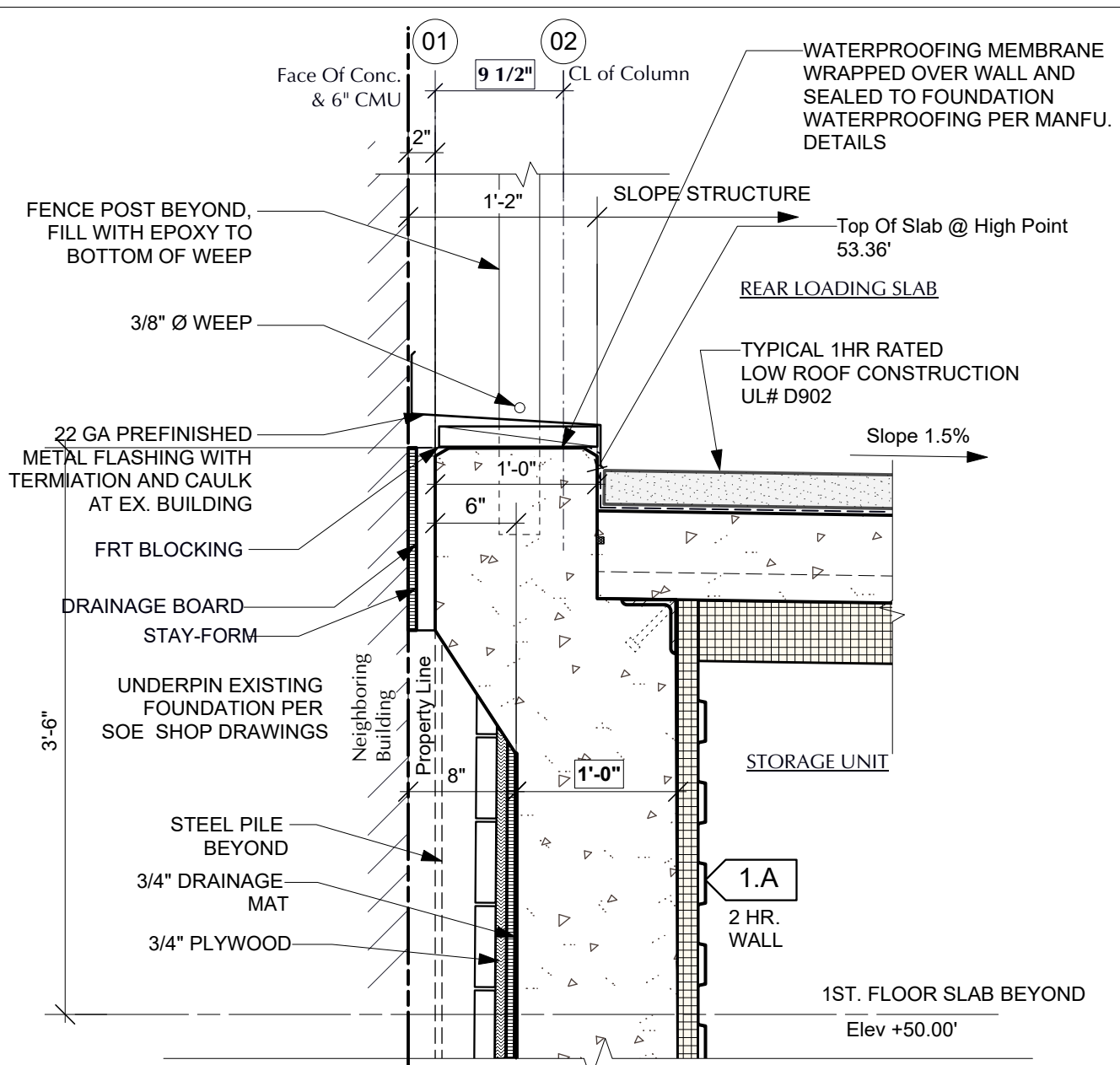
BOW
BUTZ+WILBERN LTD

Planning | Architecture
Interiors | Property Visioning
800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010



Plan Details

A-500.01

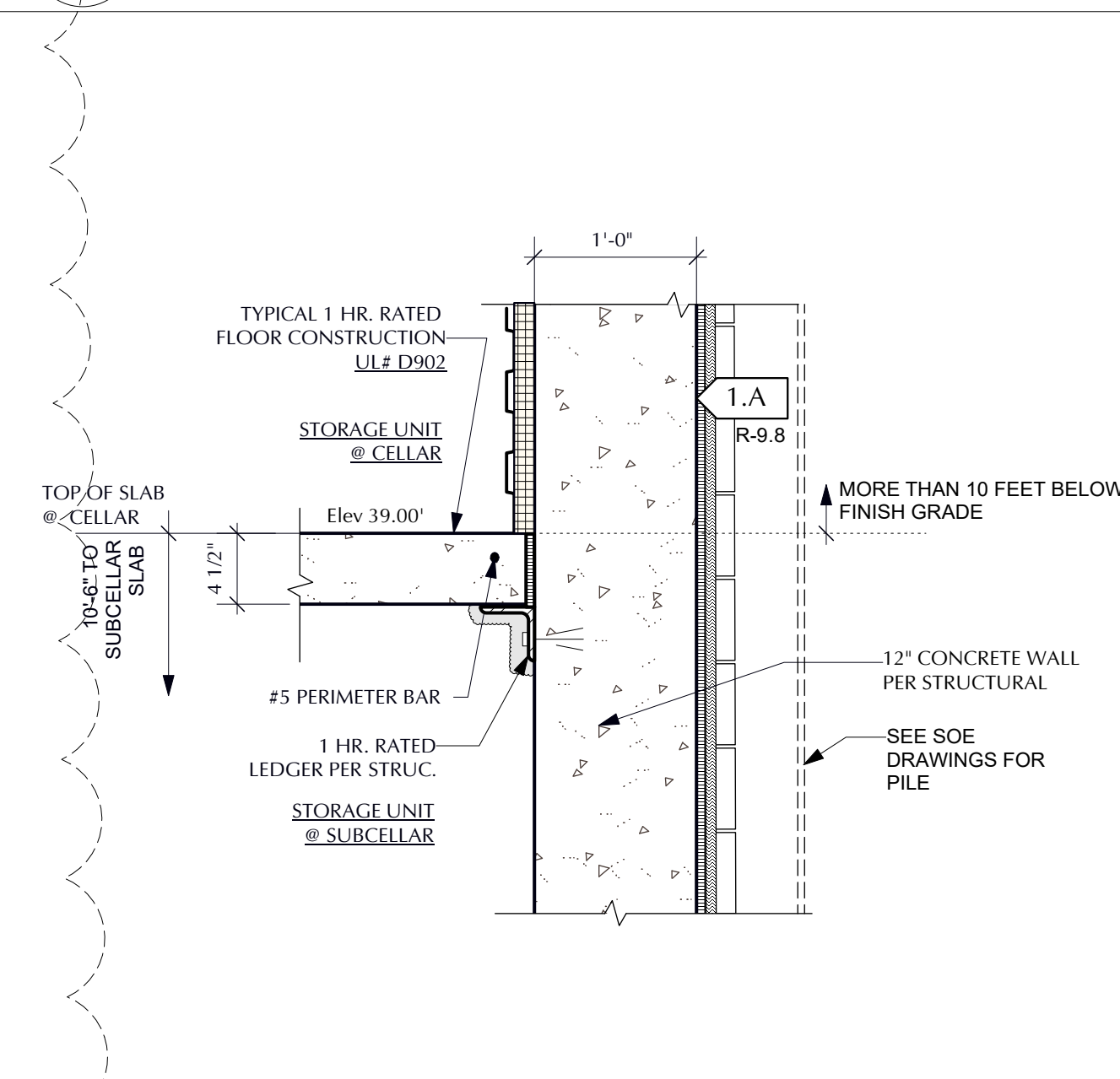
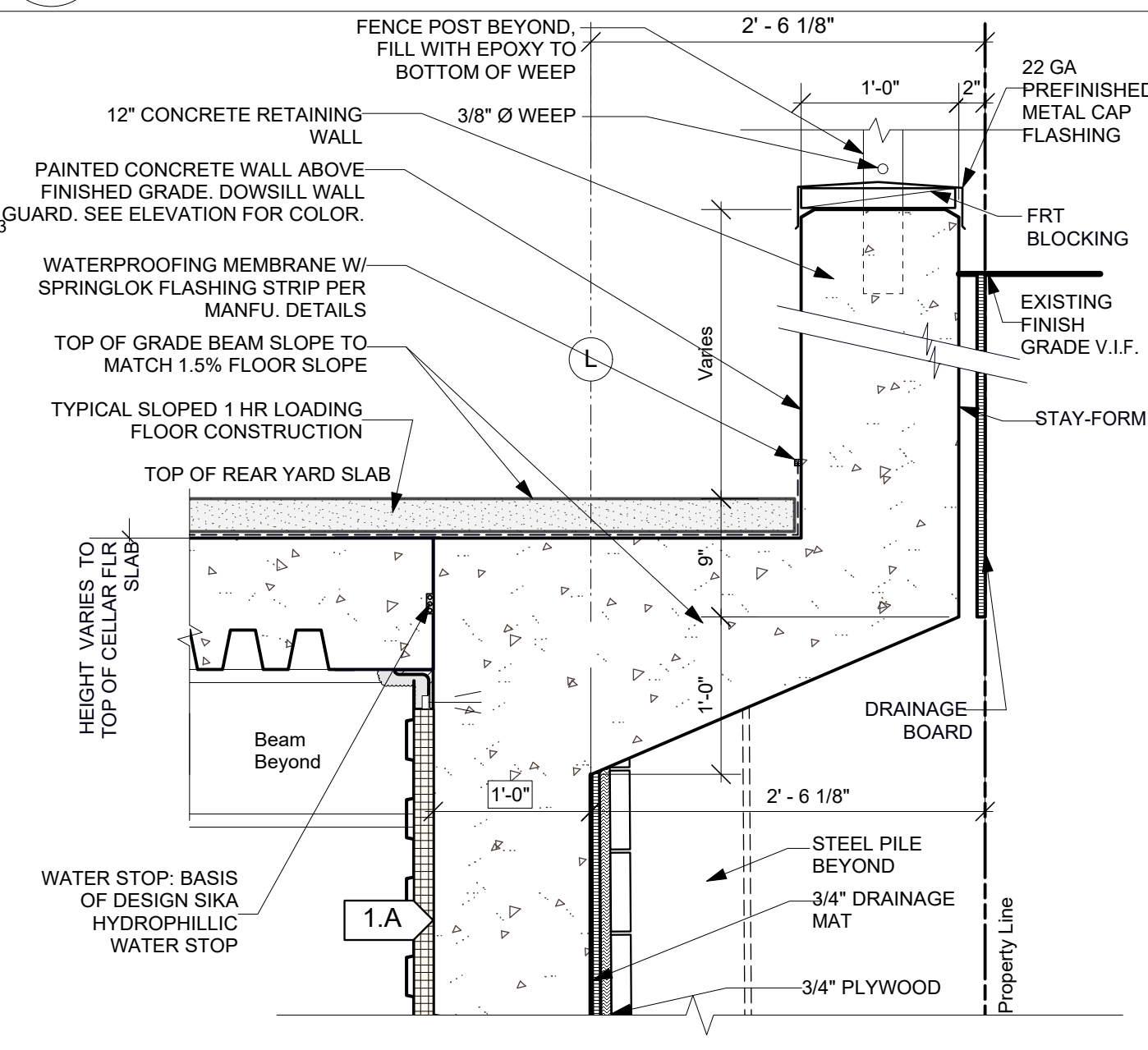
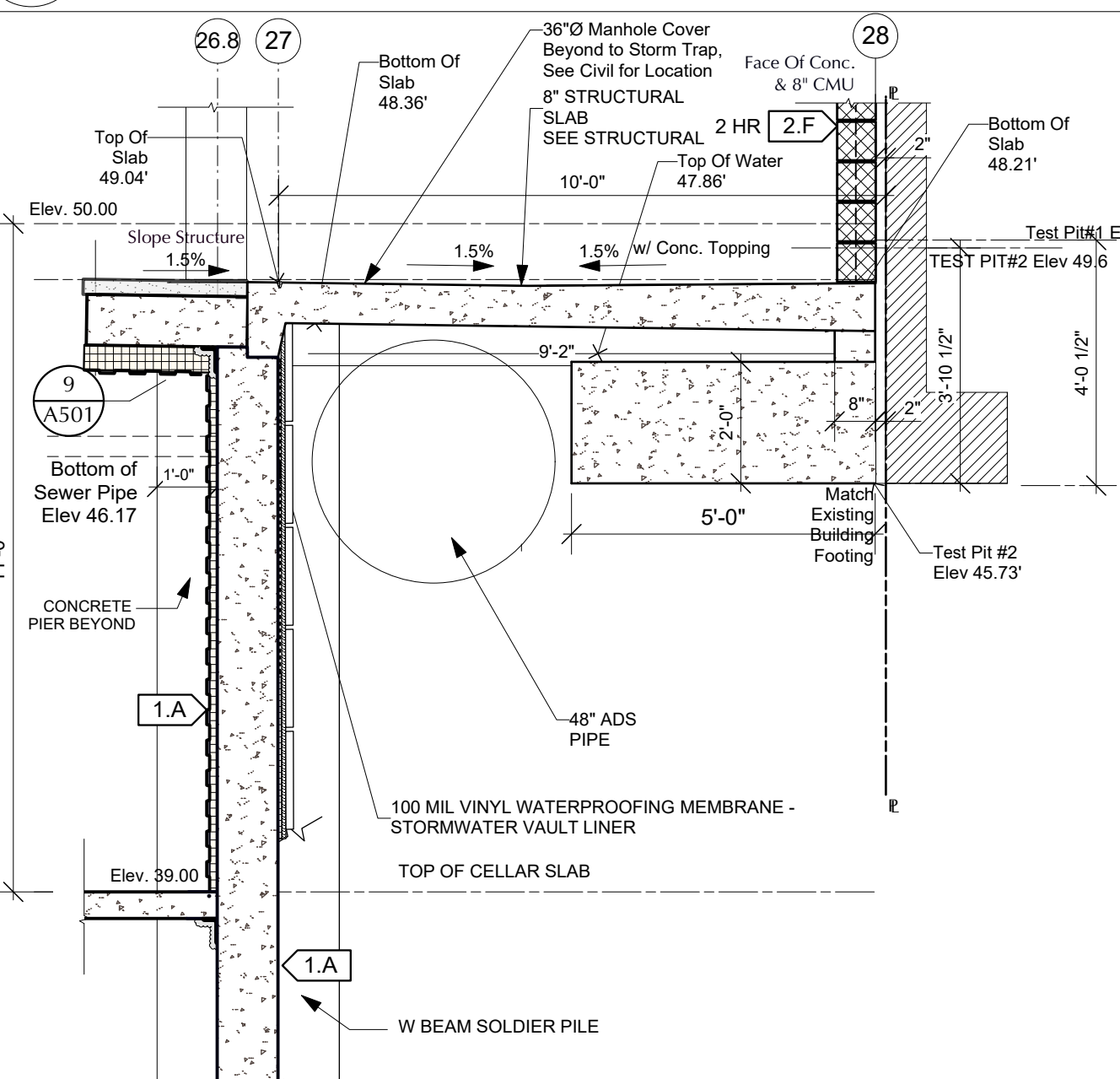
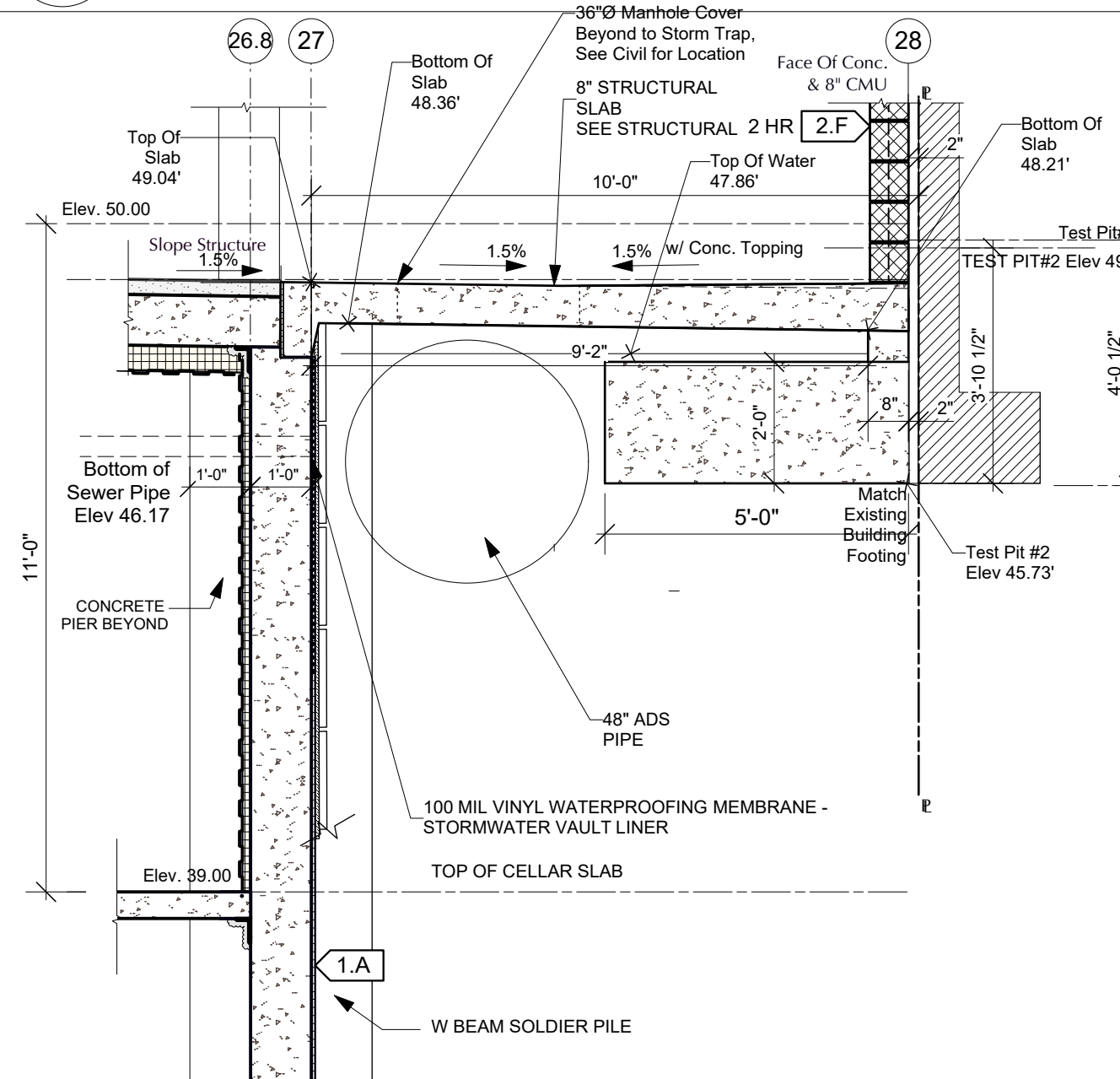


1 Rear Yard Detail @ Slab High Point @ Grid 01
Scale: 1" = 1'-0"

2 Stair #1 Front Wall @ 2nd Flr Level
Scale: 1" = 1'-0"

3 Stair #1 Front Wall @ 1st Flr Landing
Scale: 1" = 1'-0"

4 Stair #2 Front Wall @ 1st Flr Landing
Scale: 1" = 1'-0"

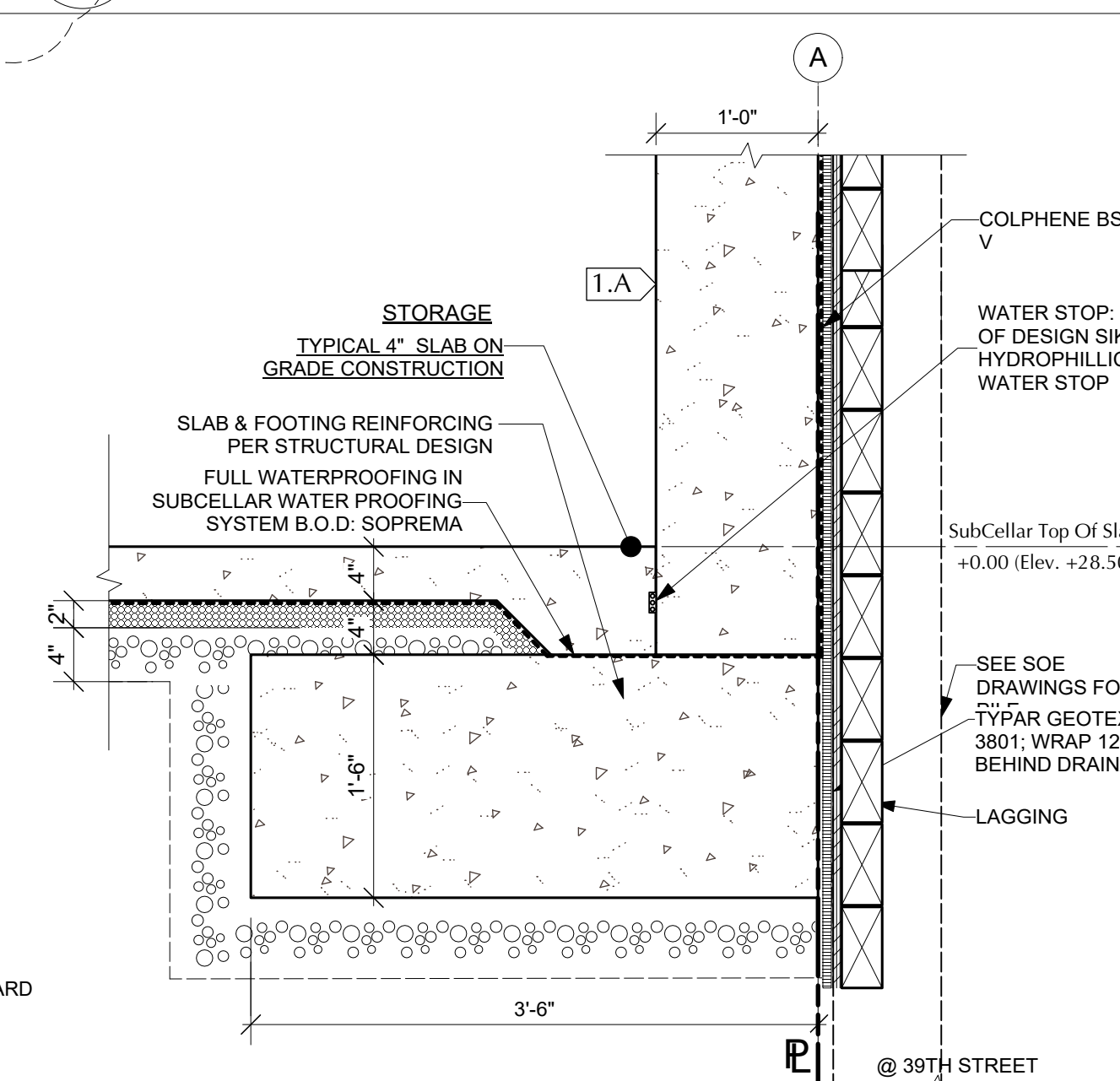
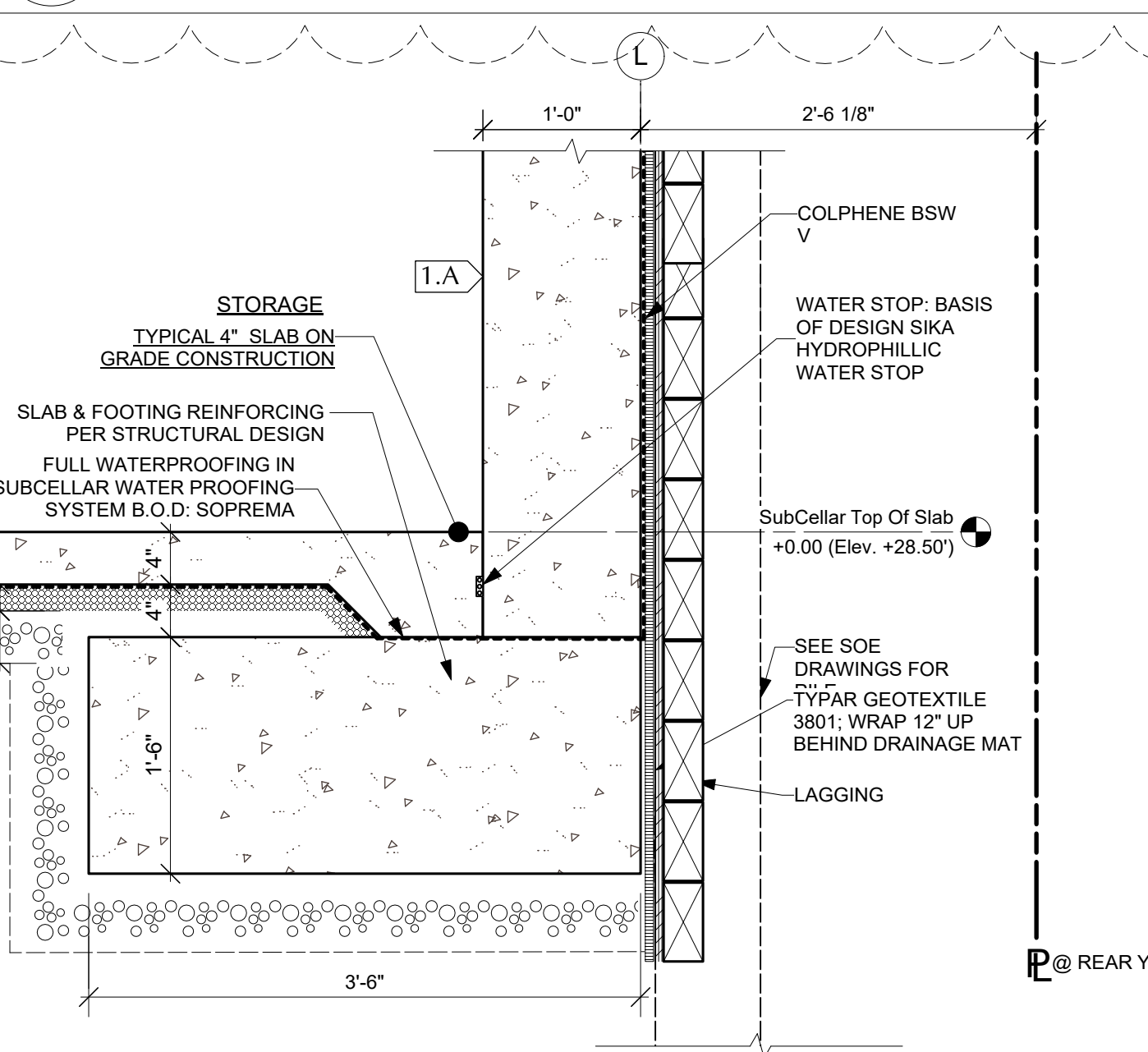
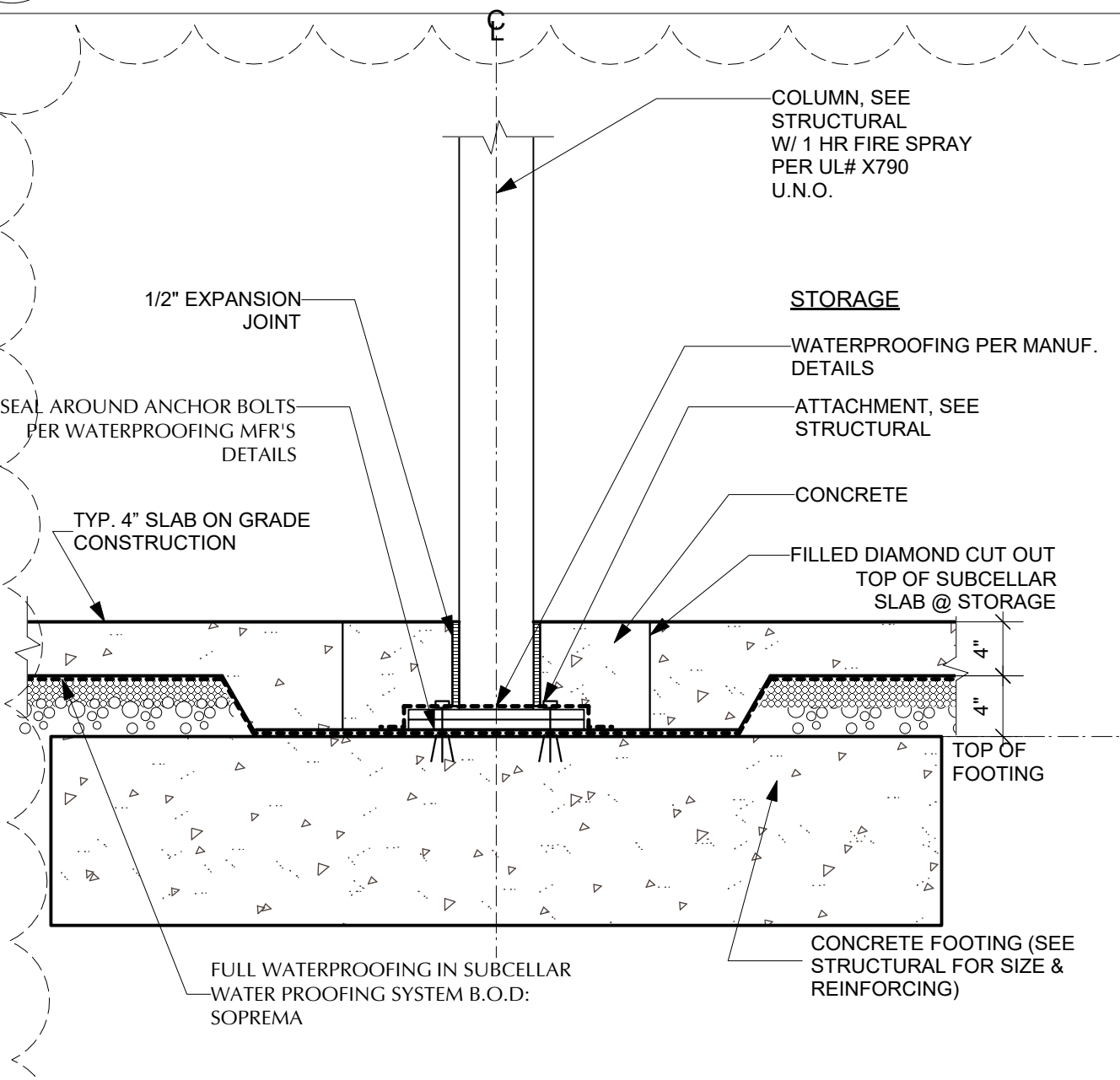
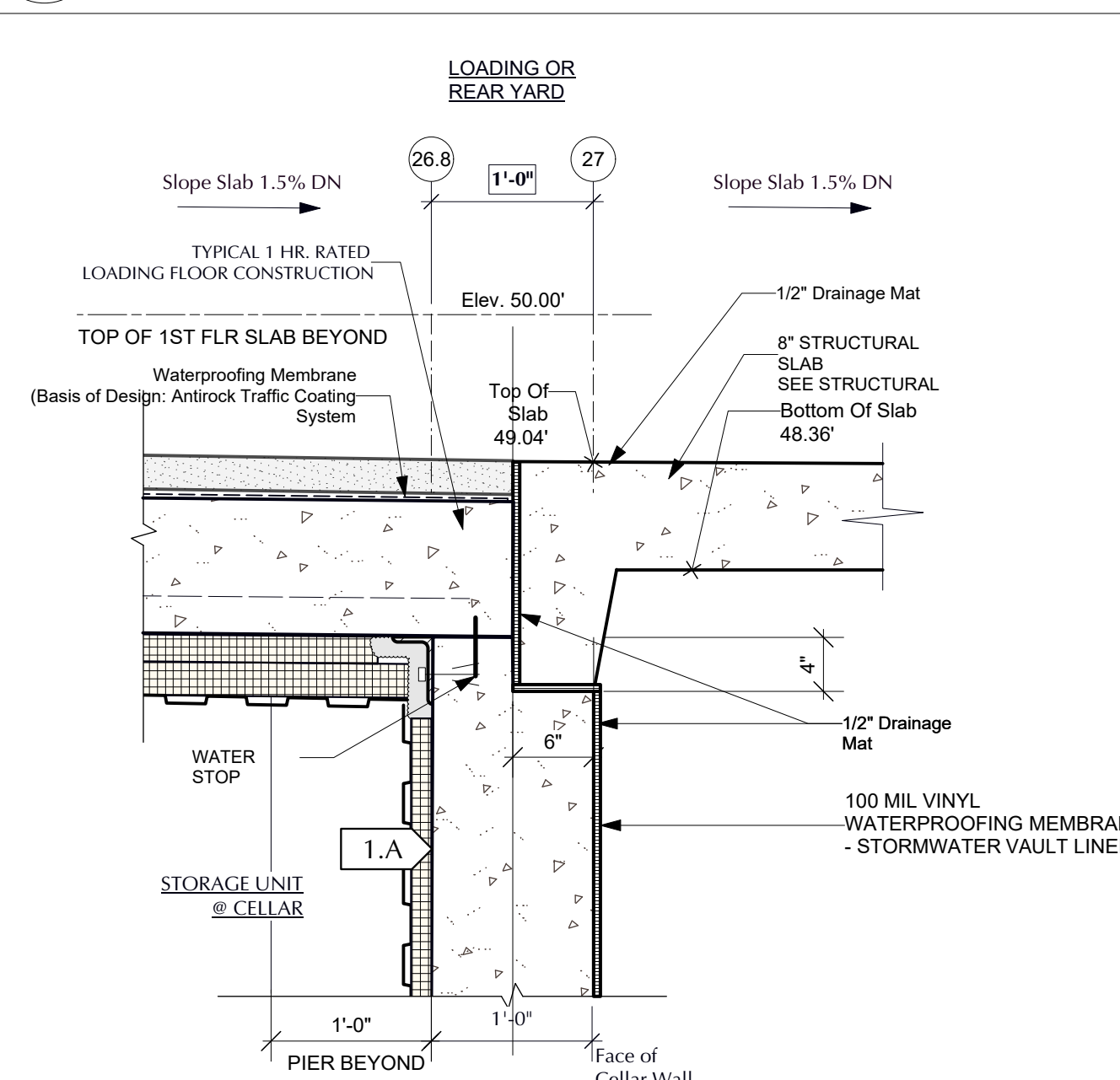


5 Section @ Detention Tank Pit
Scale: 3/8" = 1'-0"

6 Section @ Detention Tank
Scale: 3/8" = 1'-0"

7 Slab Detail @ Grid L @ Rear Yard
Scale: 1" = 1'-0"

8 Cellar Floor Detail
Scale: 1" = 1'-0"



9 Detention Tank Slab Detail
Scale: 1" = 1'-0"

10 Typ Foundation Detail @ Storage Column
Scale: 1" = 1'-0"

11 Foundation Detail @ Rear Yard
Scale: 1" = 1'-0"

12 Foundation Detail @ Front
Scale: 1" = 1'-0"

1454 39th. Self Storage

Safe N Lock
1454 39TH ST.
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK



BUTZ • WILBERN LTD

Planning | Architecture
Interiors | Property Visioning

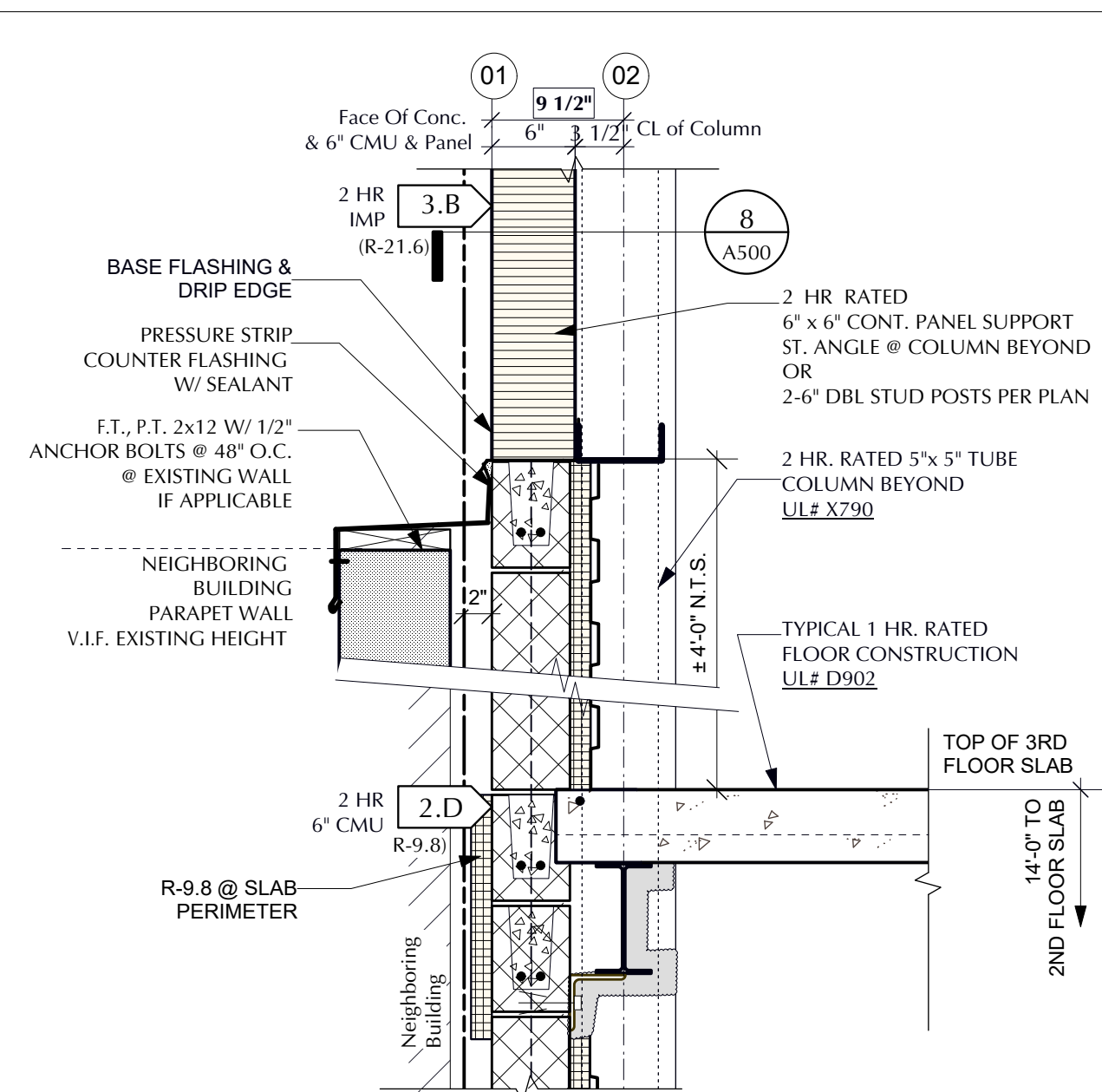
800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010



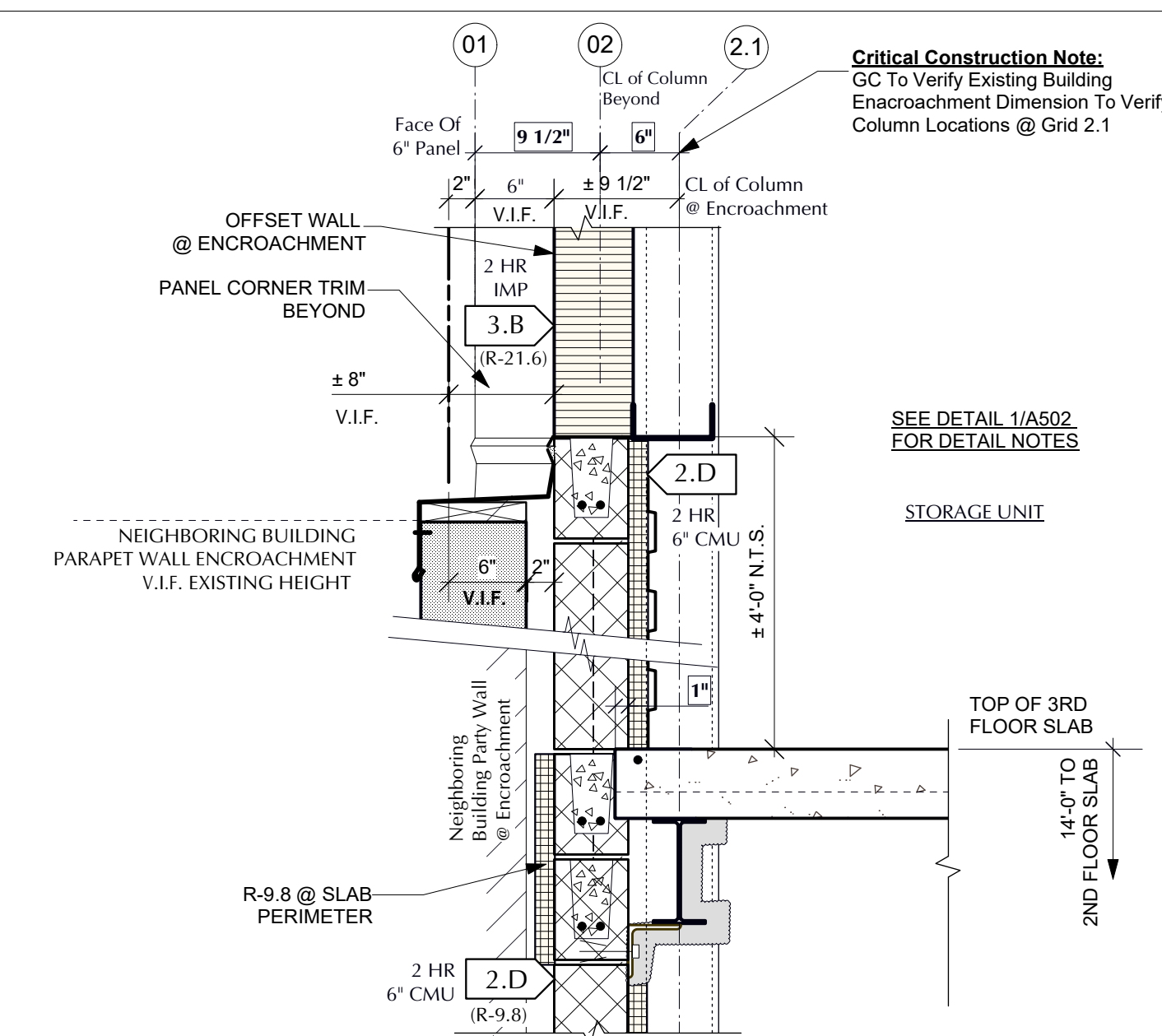
SECTION
DETAILS

A-501.01

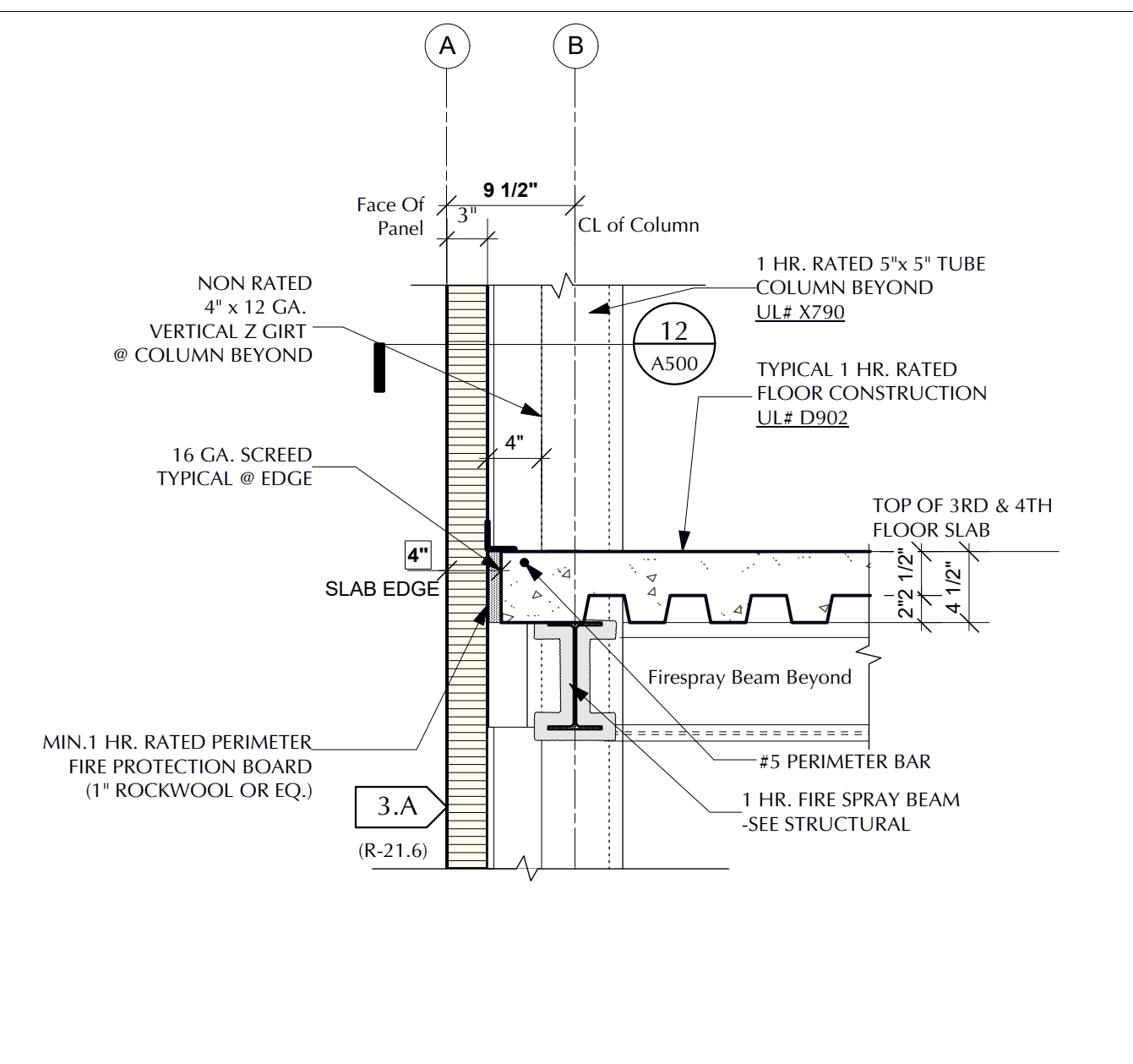
42 OF 49
19010



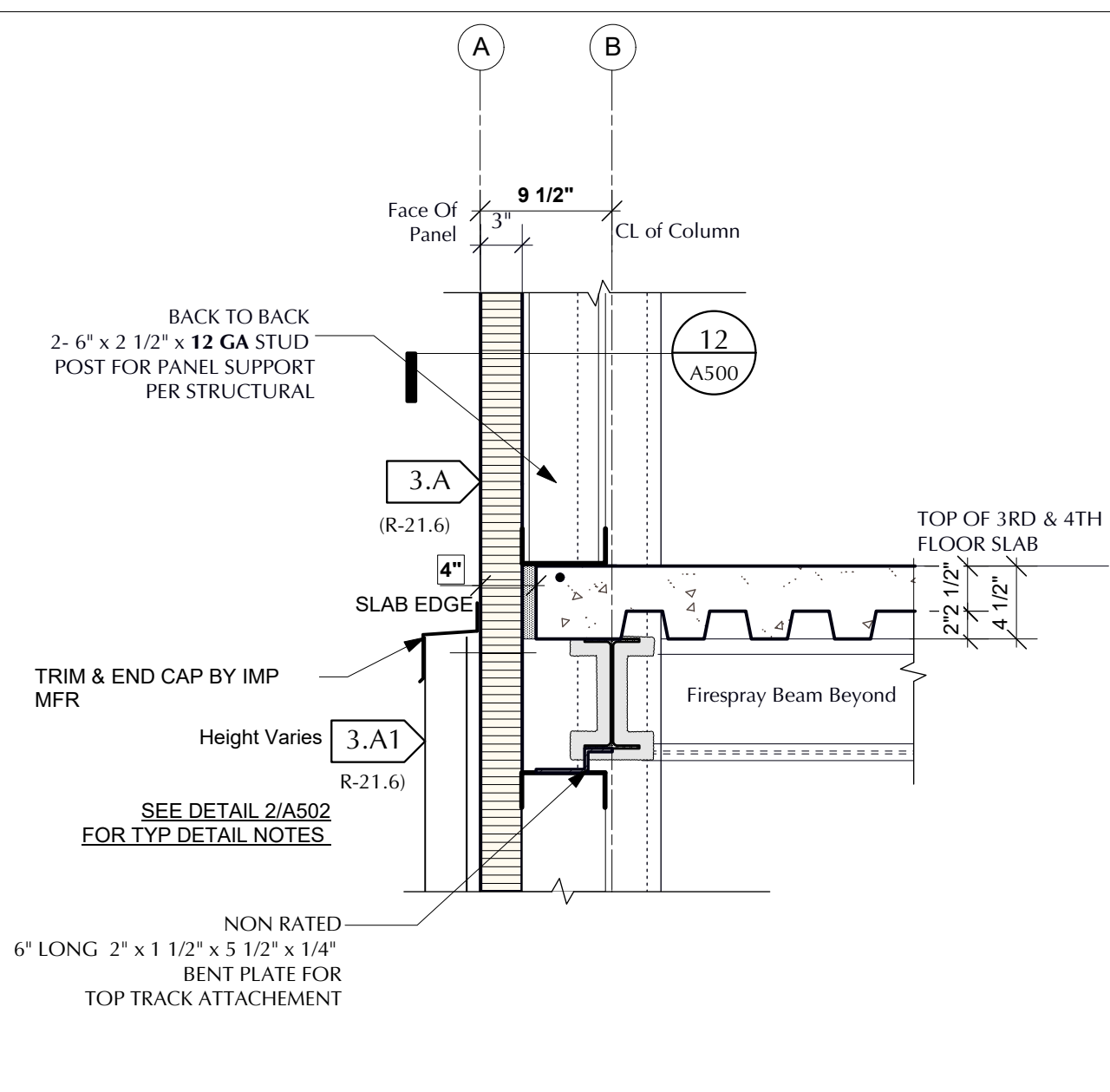
1 Neighboring Building Existing Parapet Wall



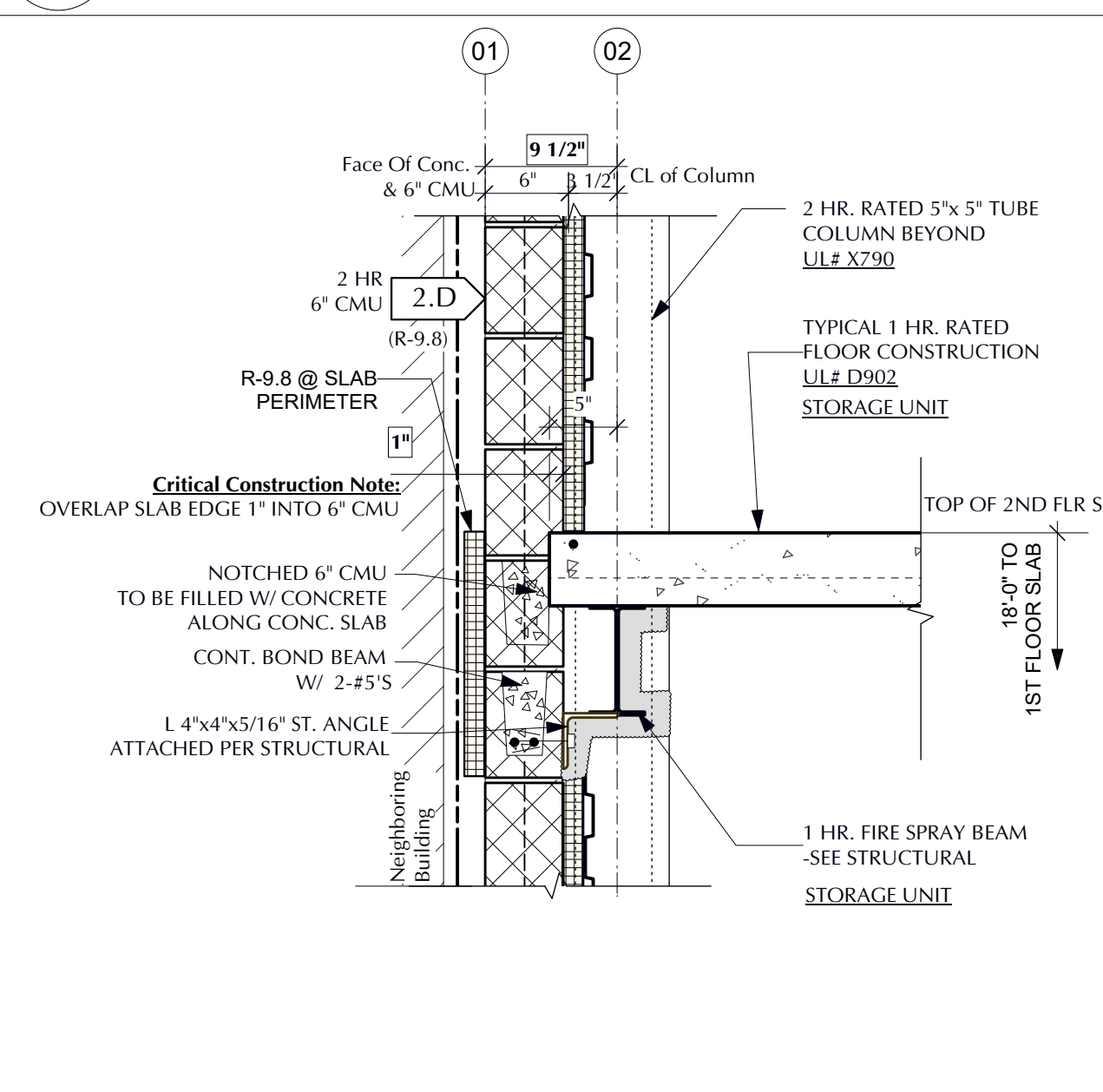
2 3rd Flr Detail @ Neighboring Encroachment
Scale: 1" = 1'-0"



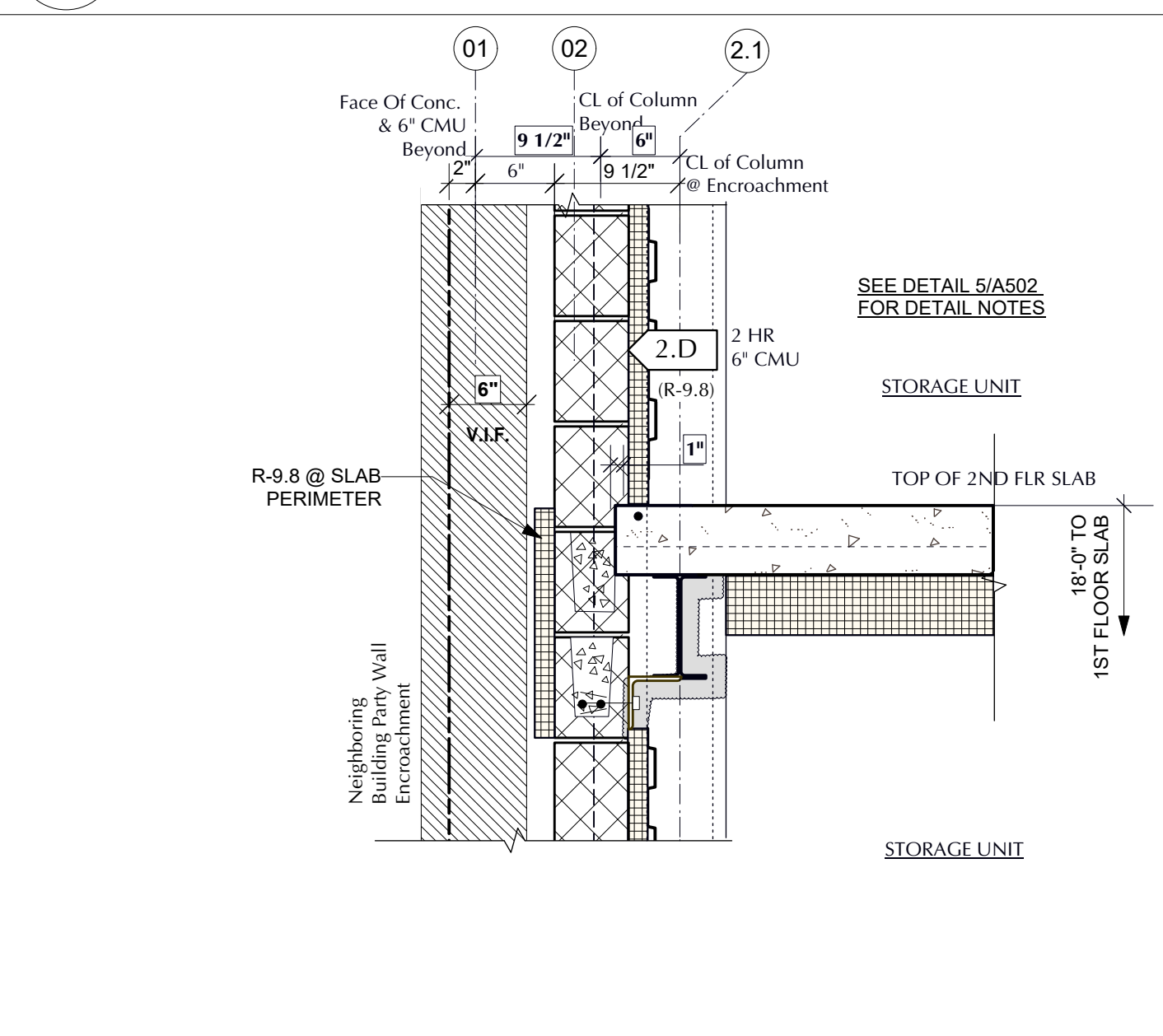
3 3rd & 4th Flr Detail @ Front Wall @ Grid A
Scale: 1" = 1'-0"



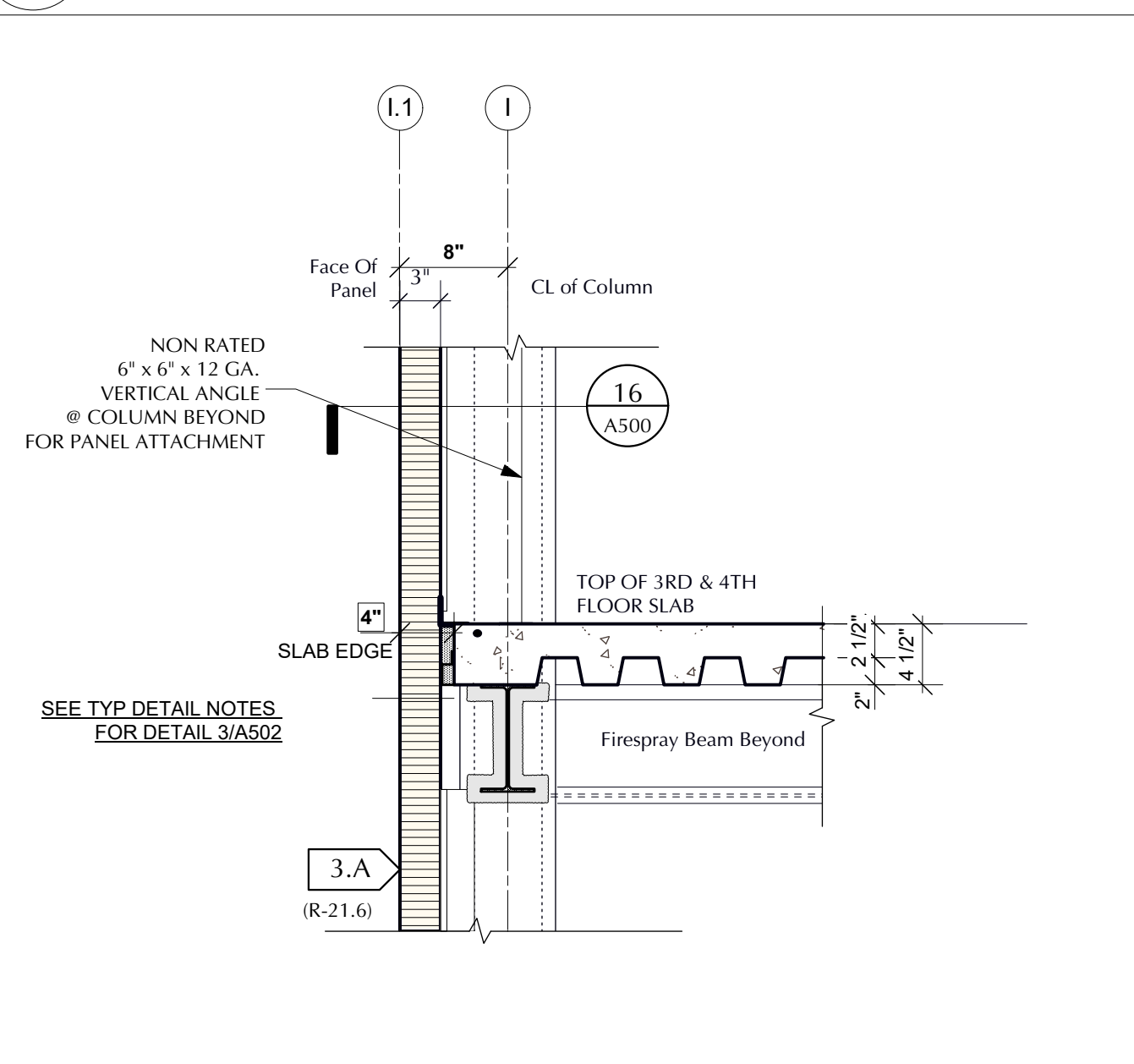
4 3rd & 4th Flr Detail @ Front Wall @ Stud Post
Scale: 1" = 1'-0"



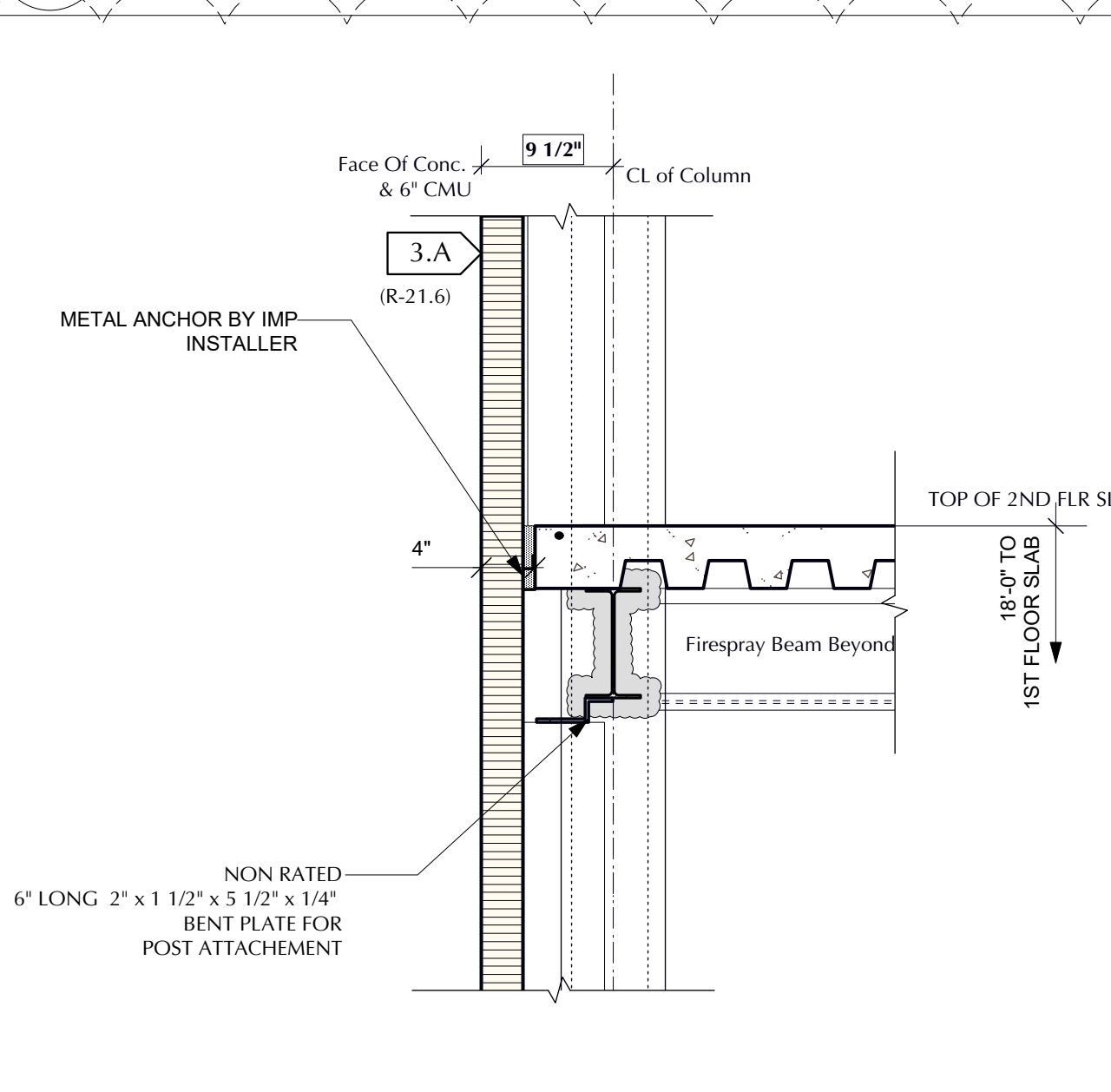
5 6" CMU Wall @ Neighboring Bldg @ 2nd Flr
Scale: 1" = 1'-0"



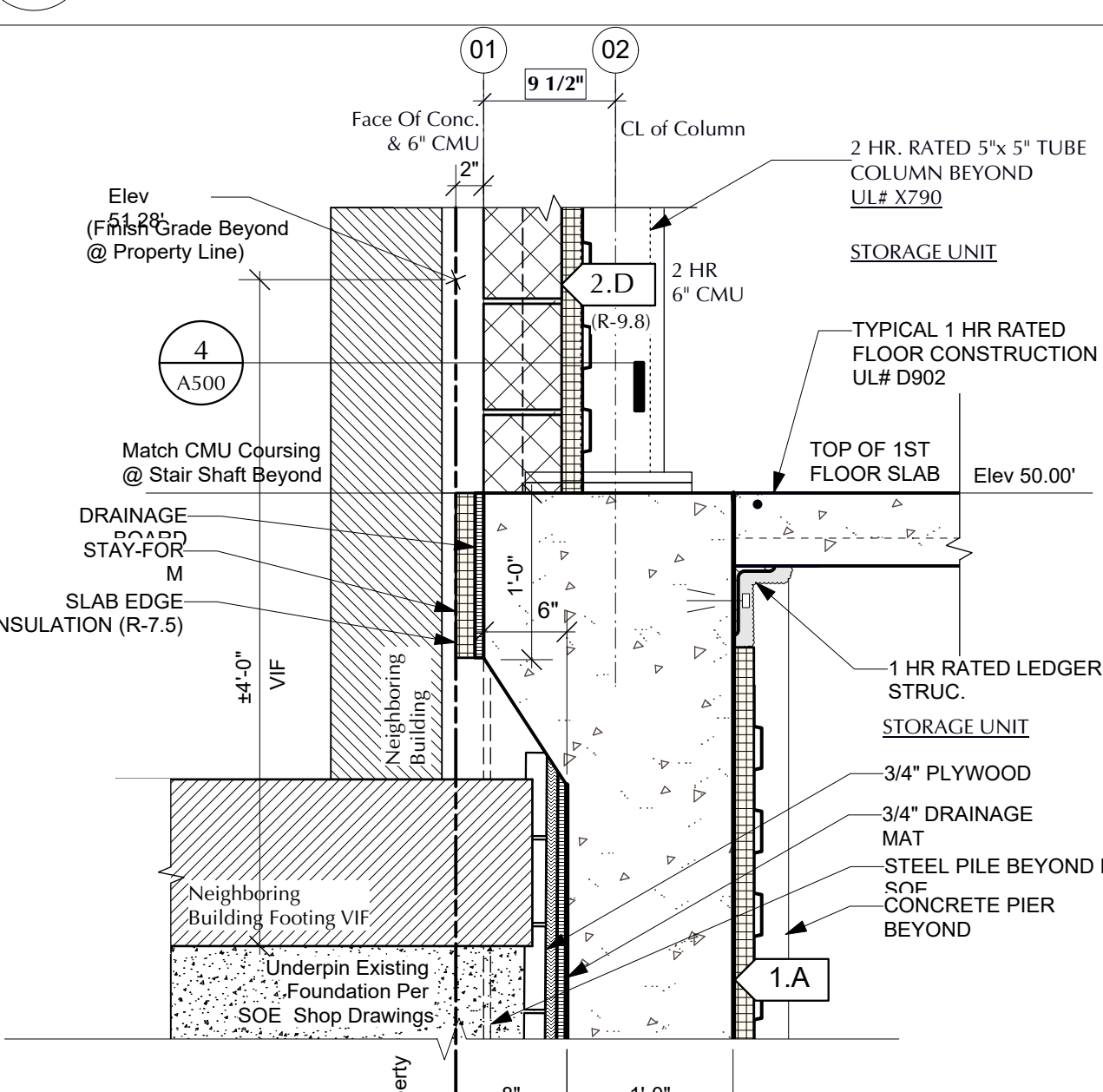
6 2nd Flr Detail @ Neighboring Encroachment
Scale: 1" = 1'-0"



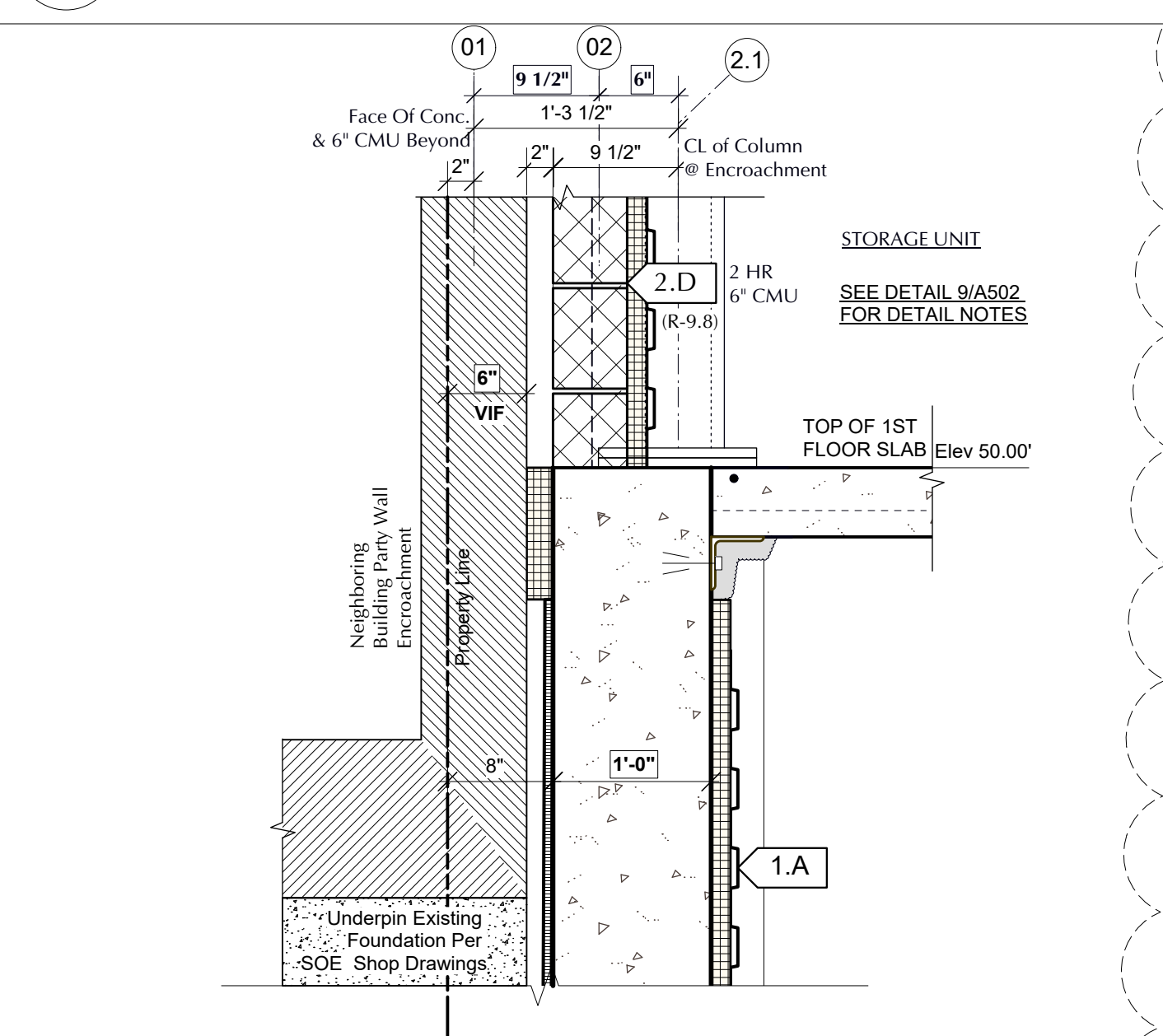
7 3rd & 4th Flr Detail @ Front Wall @ Grid I.
Scale: 1" = 1'-0"



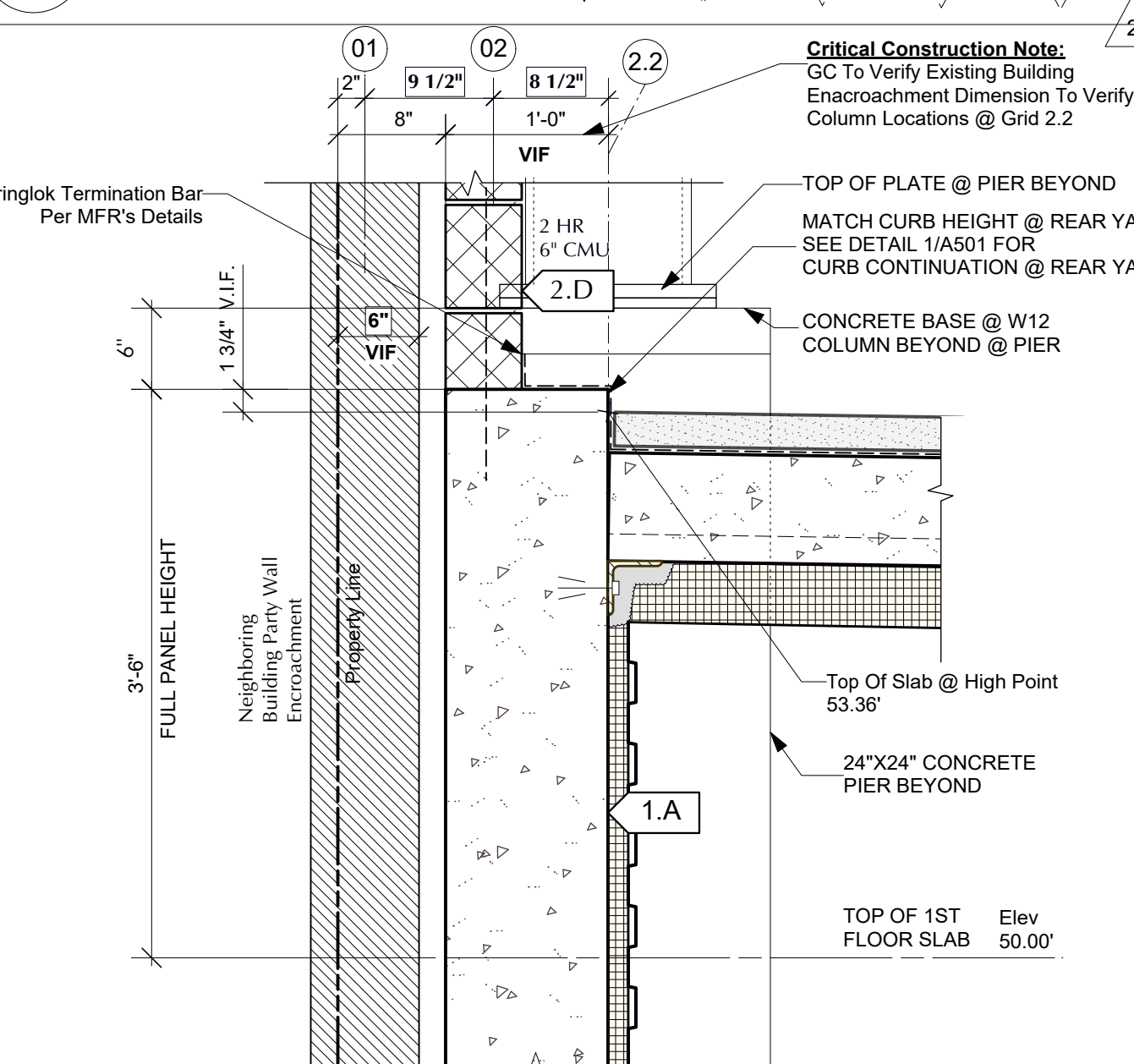
8 2nd. Flr Detail @ Front Wall
Scale: 1" = 1'-0"



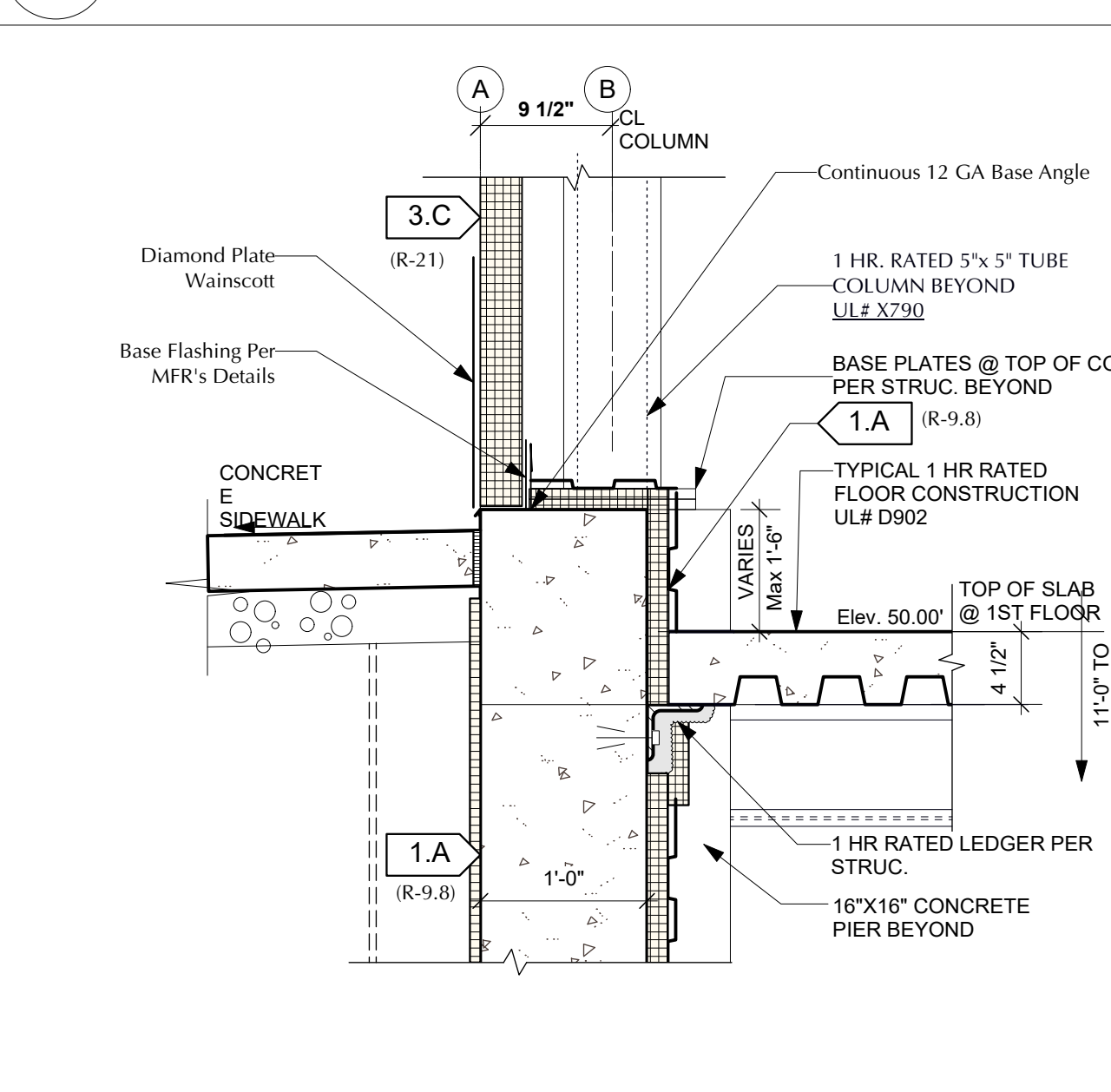
9 1st Flr Detail @ Neighboring Bldg @ Grid 01
Scale: 1" = 1'-0"



10 1st Flr Storage Slab @ Encroachment
Scale: 1" = 1'-0"



11 Rear Yard Detail@Neighboring Encroachment
Scale: 1" = 1'-0"



12 Raised Concrete Curb @ Front Wall
Scale: 1" = 1'-0"

	ISSUE DATE
1 Permit Set	3/23/20
2 PAA	11/22/21

	REVISION DATE
2 RFI 001/002	12/22/20
3 RFI 004	3/3/21

1454 39th. Self Storage

Safe N Lock
1454 39TH ST.
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK



BUTZ•WILBERN LTD

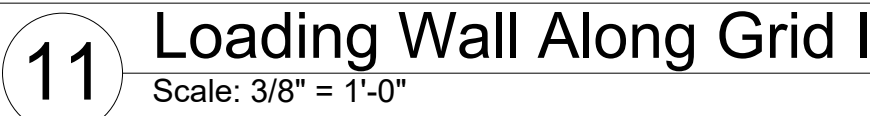
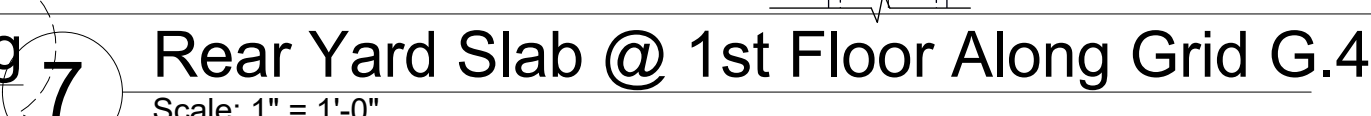
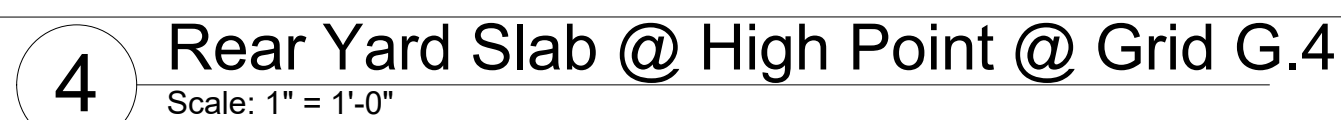
Planning | Architecture
Interiors | Property Visioning

800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010

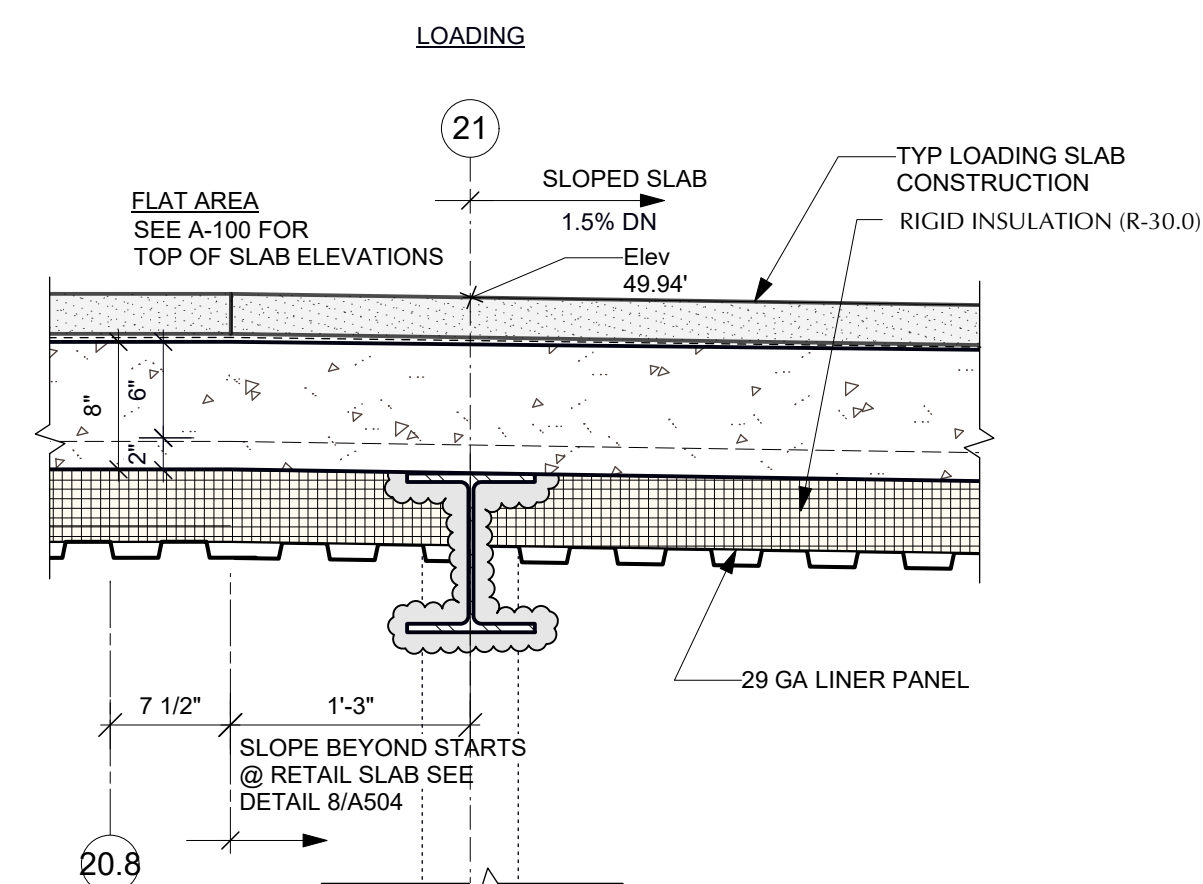


SECTION DETAILS

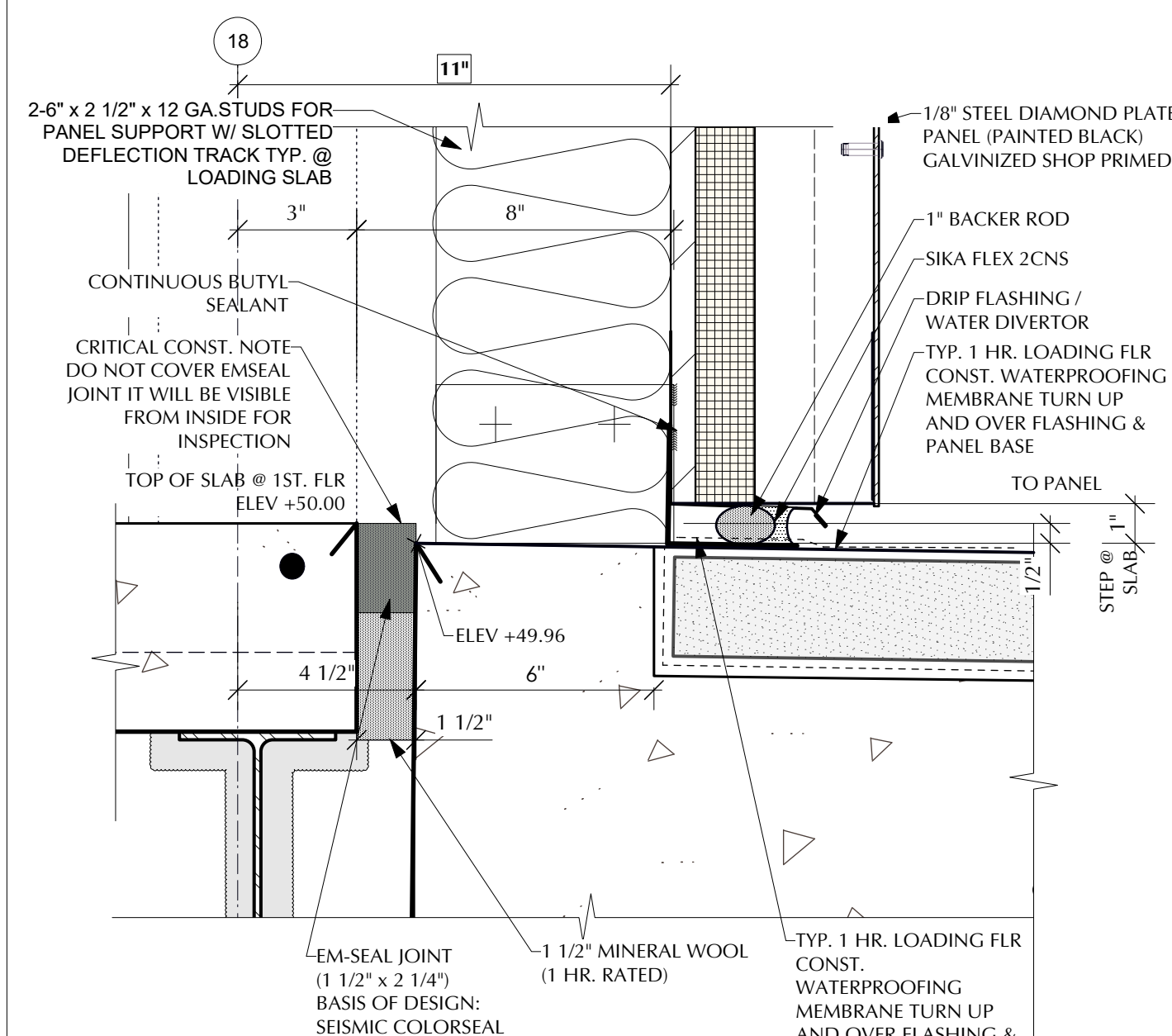
A-502.01



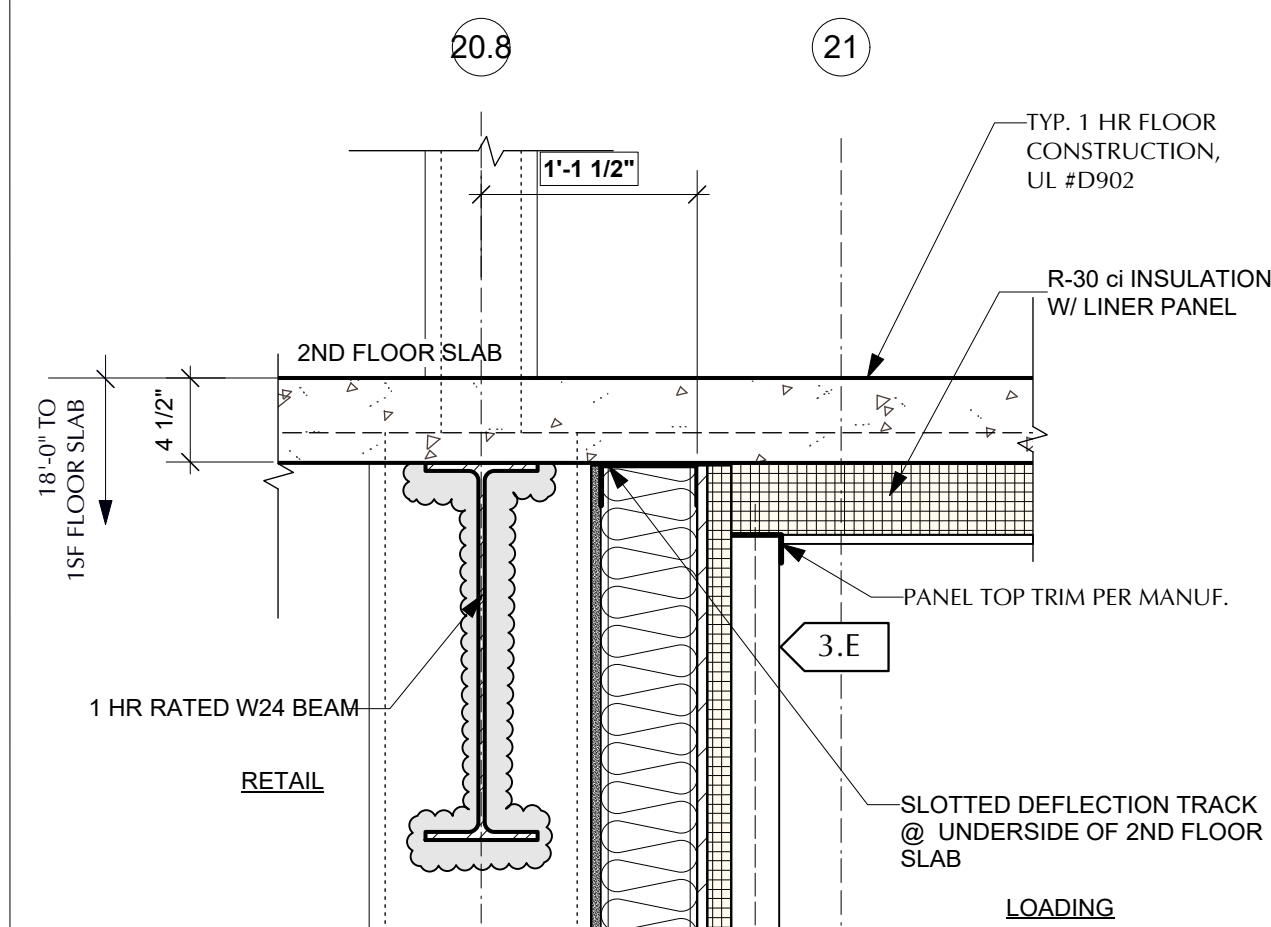
1 Plan @ Entry Sliding Door w/ Emseal Joint
Scale: 1" = 1'-0"



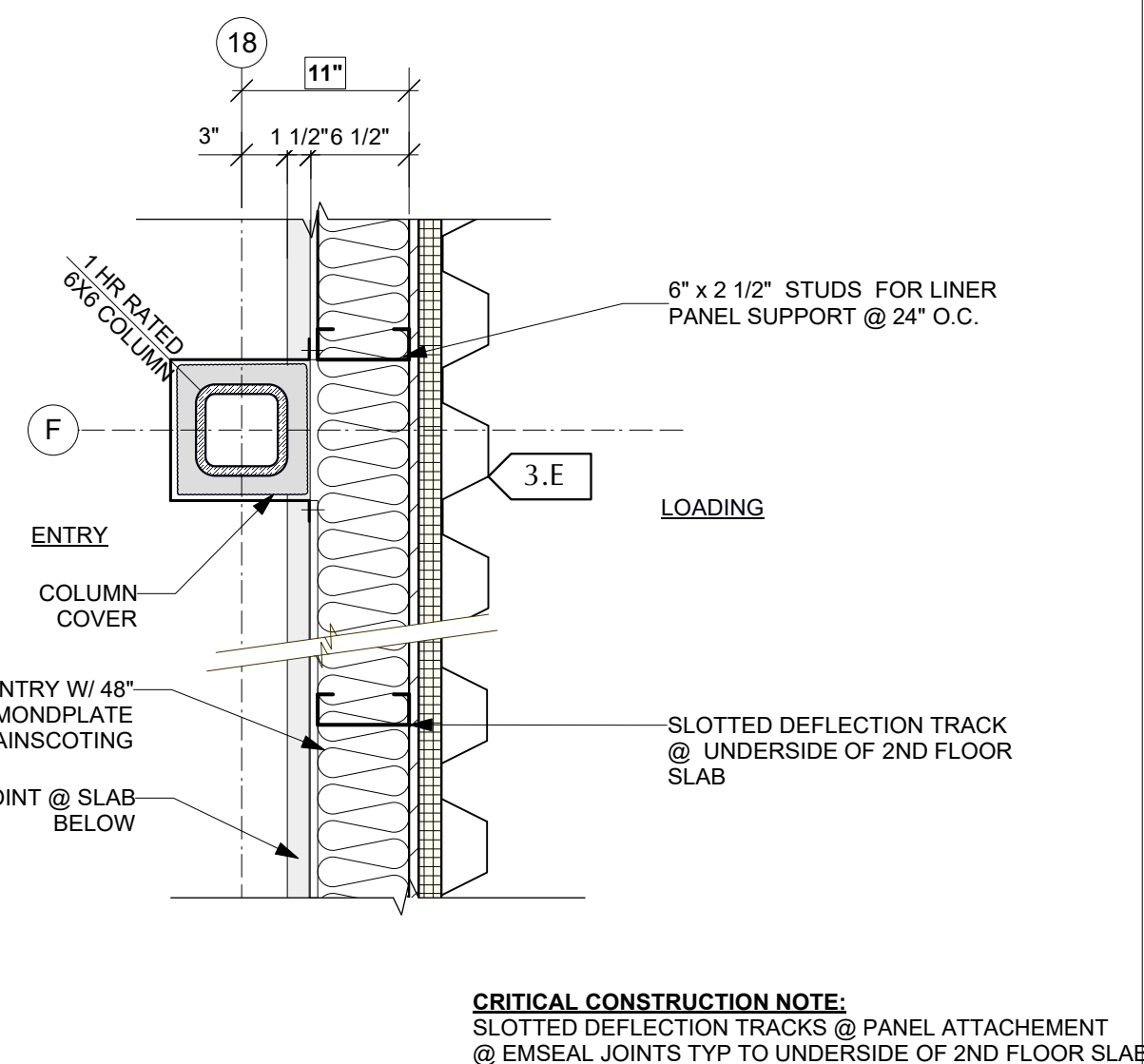
2 1st Flr Slab Detail @ Grid 21 @ Loading
Scale: 1" = 1'-0"



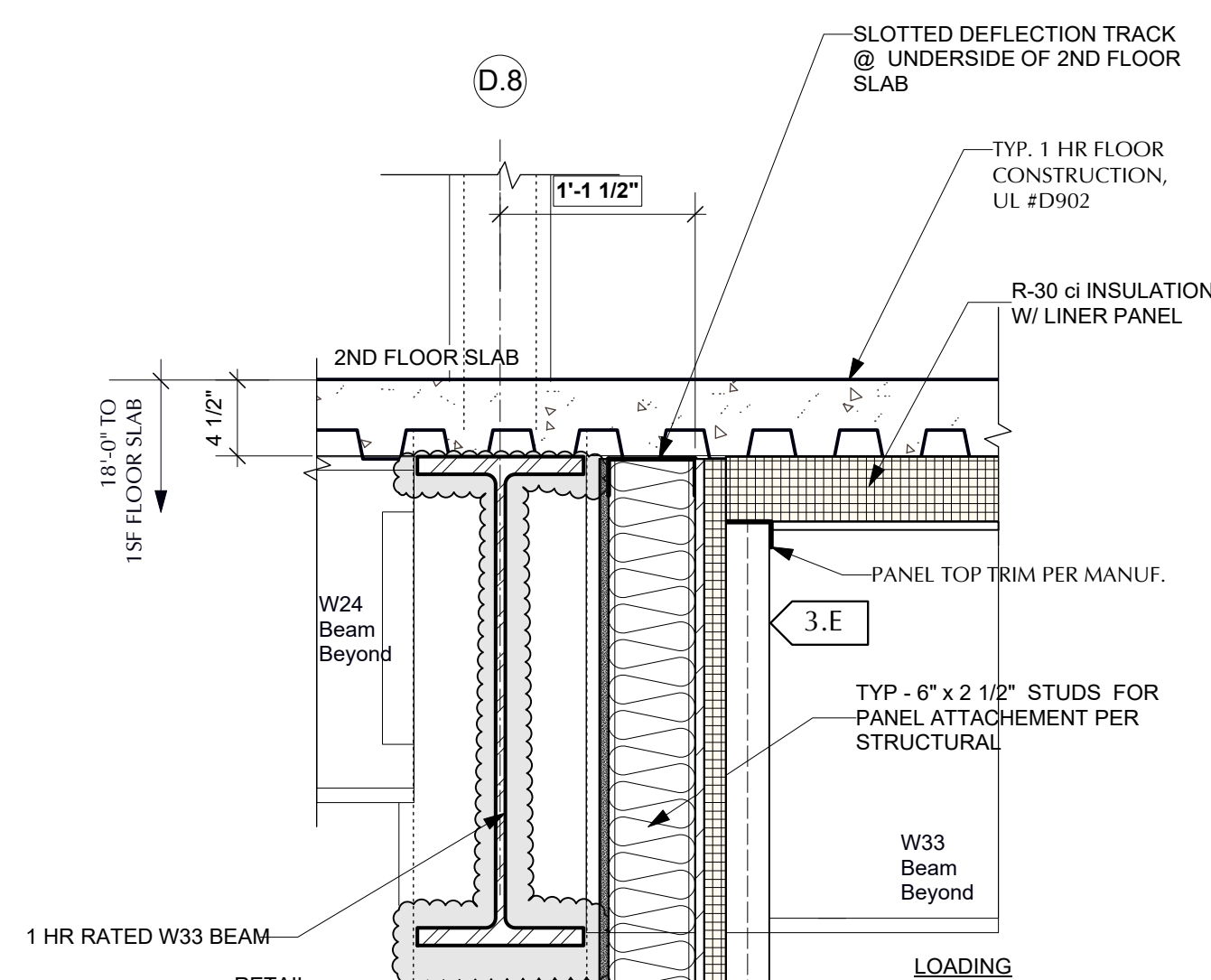
3 Loading/Entry Slab Edge Blow Up



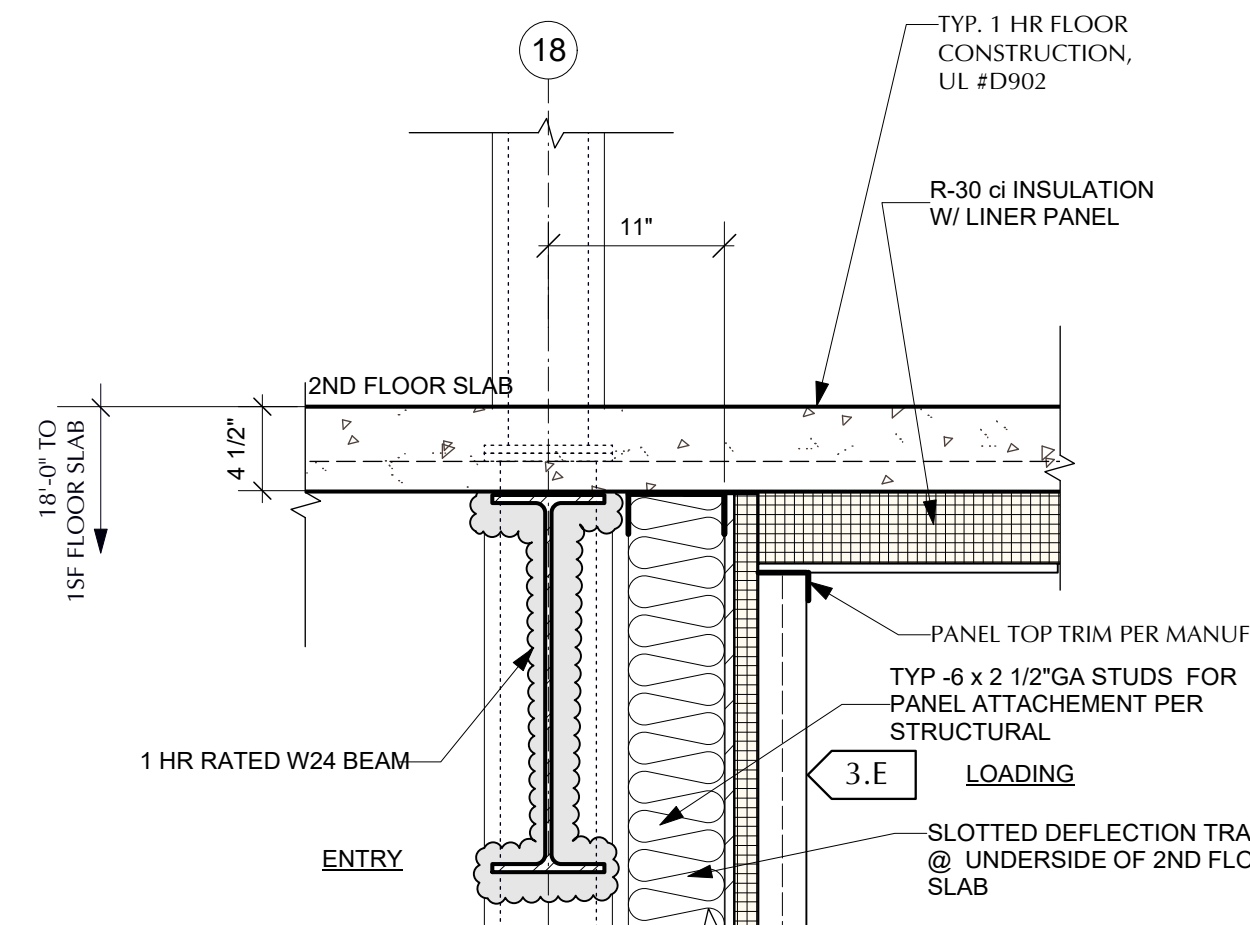
4 2nd Flr Detail @ Grid 20.8 @ Retail Wall
Scale: 1" = 1'-0"



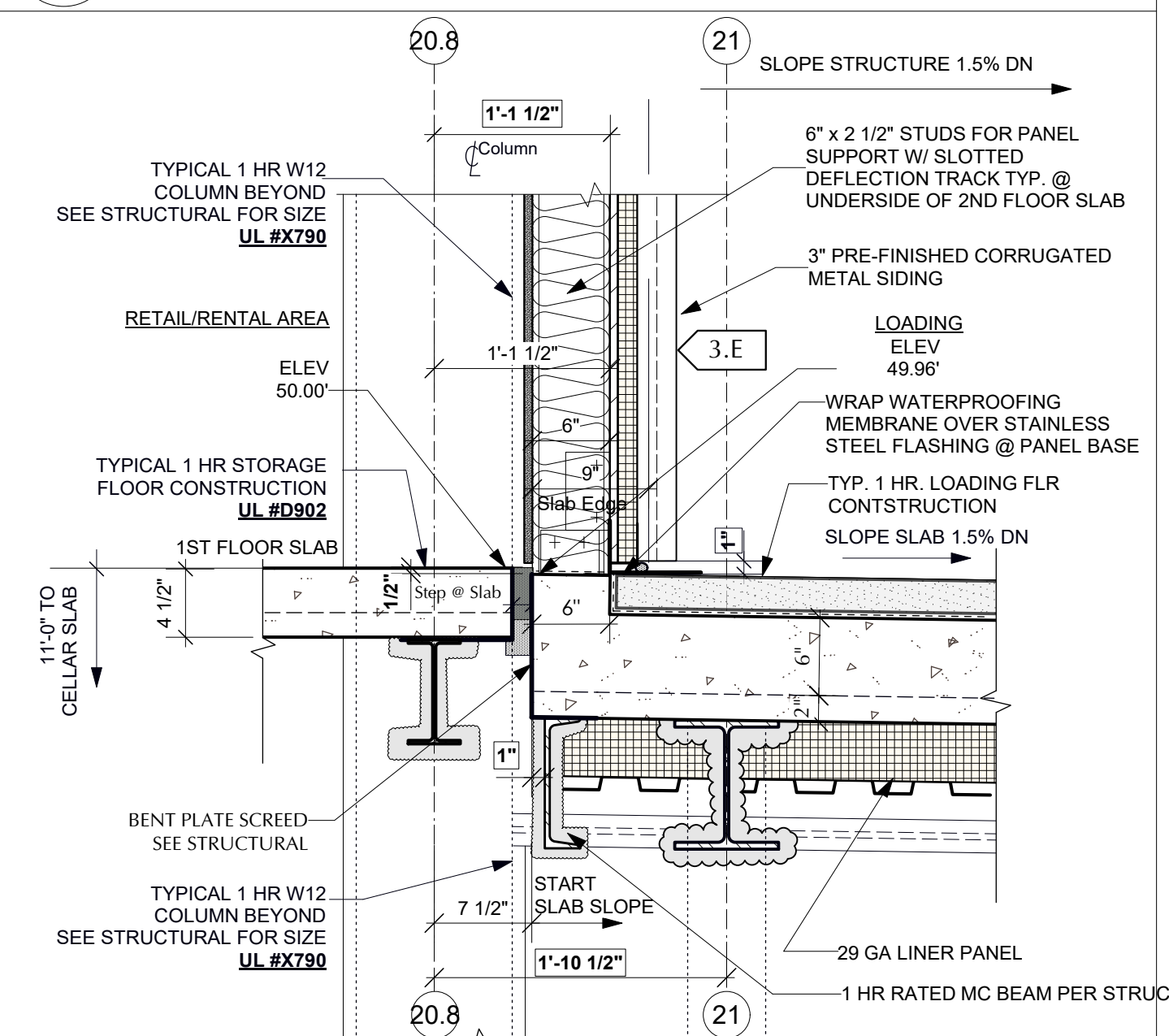
5 Plan @ Entry Wall w/ Emseal Joint
Scale: 1" = 1'-0"



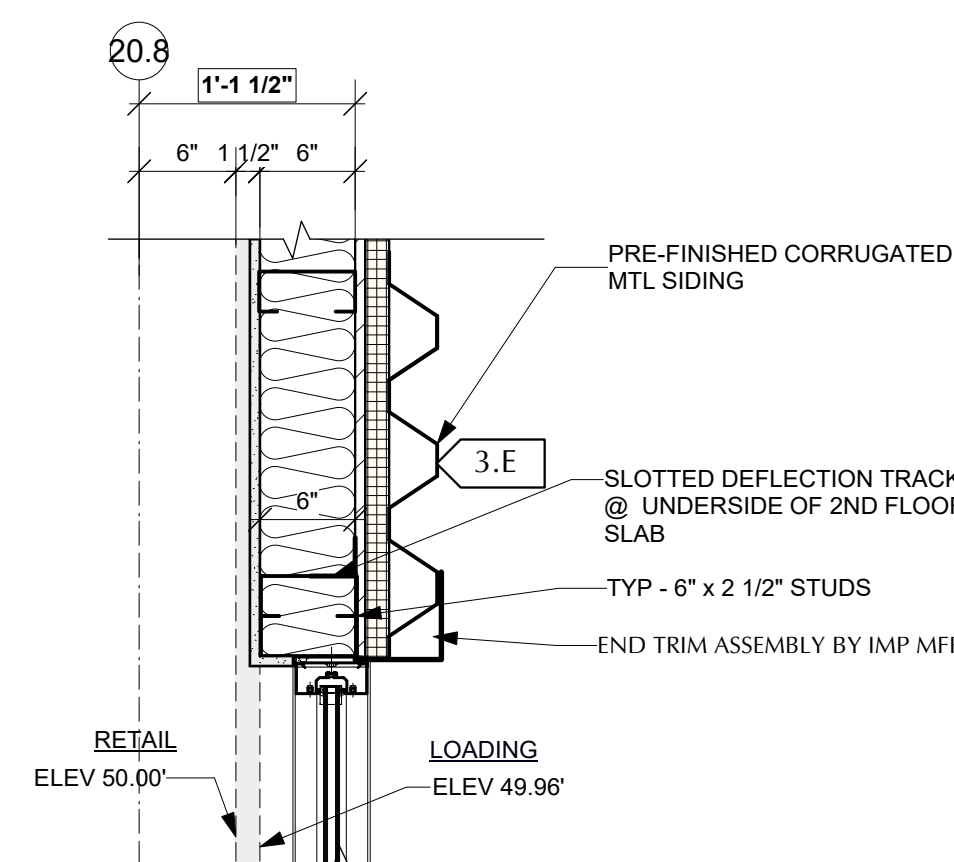
6 2nd Flr Detail @ Grid D.8 @ Retail Wall
Scale: 1" = 1'-0"



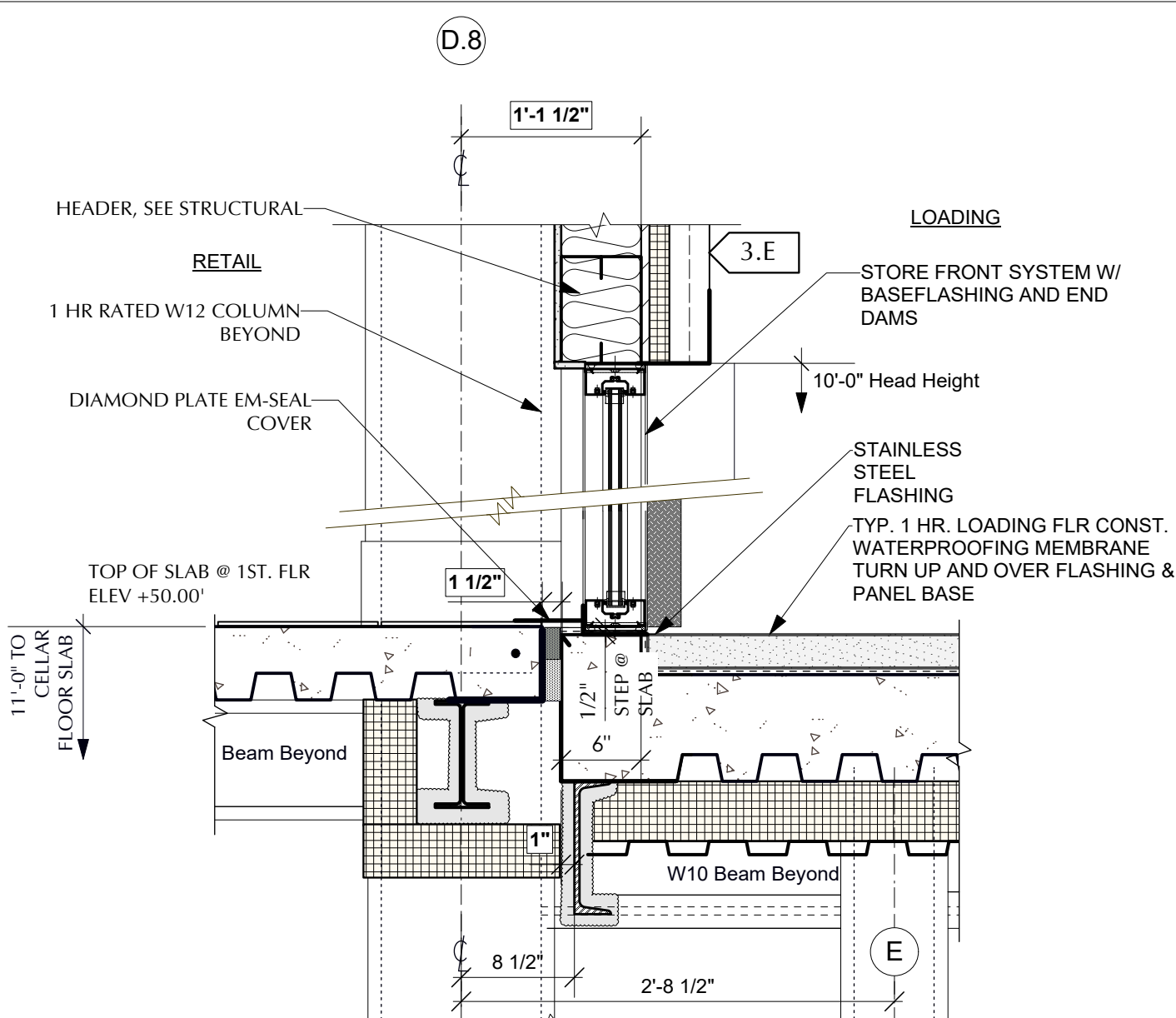
7 2nd Flr Detail @ Grid 18 @ Entry Wall
Scale: 1" = 1'-0"



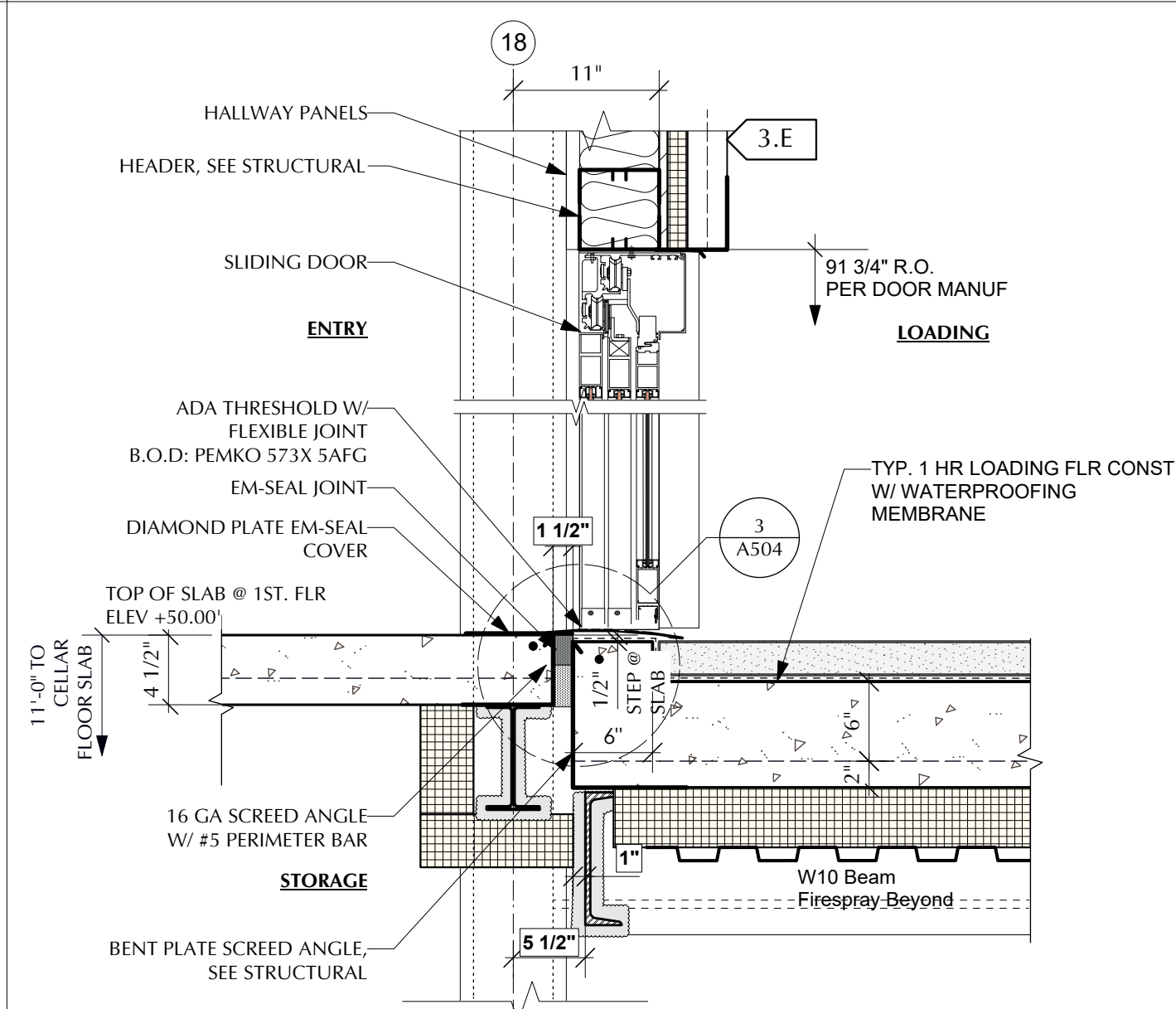
8 1st Flr Retail Slab To Loading
Scale: 1" = 1'-0"



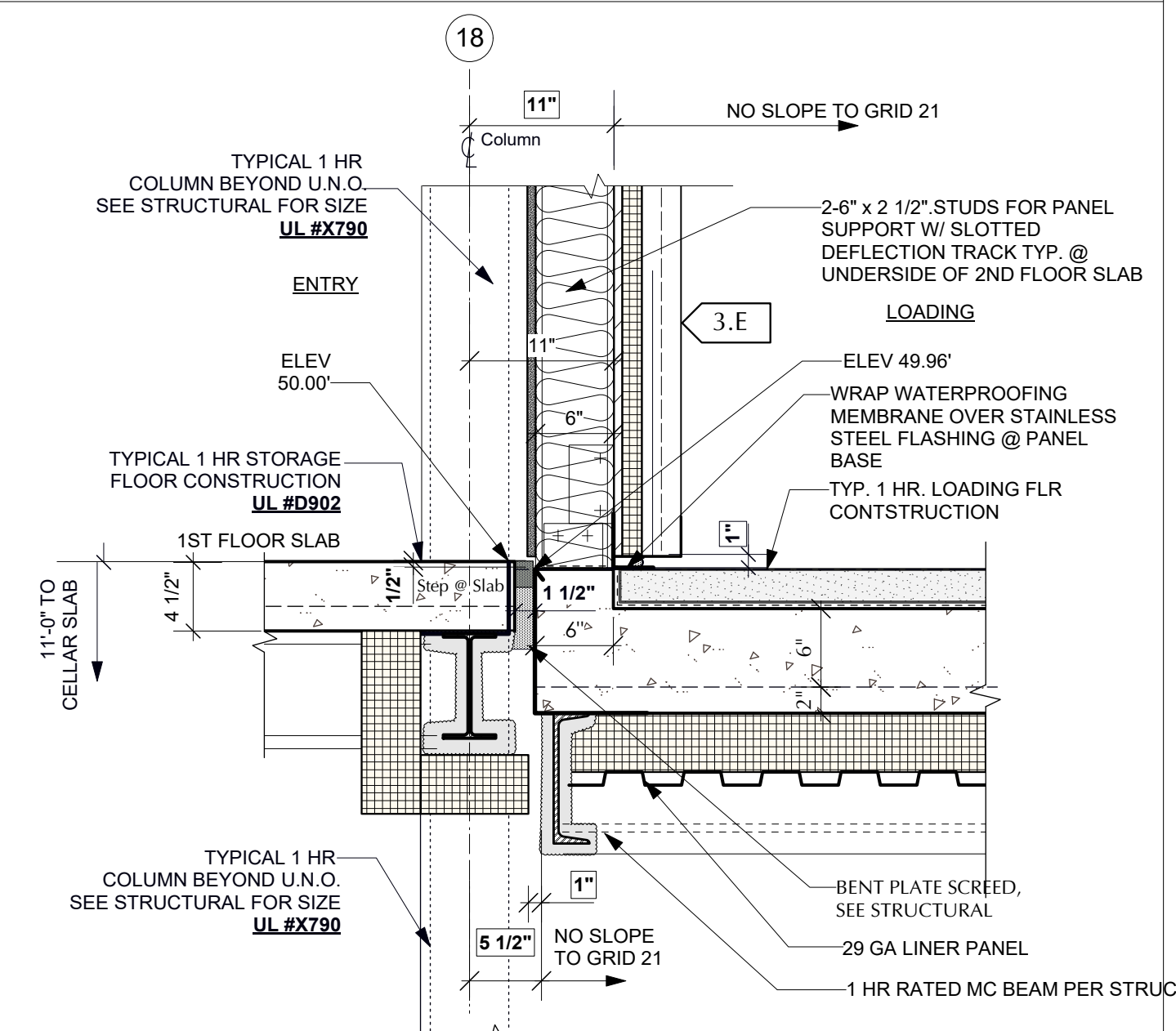
9 Plan @ Office Storefront w/ Emseal Joint
Scale: 1" = 1'-0"



10 Retail Slab To Loading @ Grid D.8 Storefront
Scale: 1" = 1'-0"



11 1st Flr Entry Slab To Loading @ Sliding Door
Scale: 1" = 1'-0"



12 1st Flr Entry Slab To Loading @ Grid 18
Scale: 1" = 1'-0"

● ISSUE DATE ●	
1 Permit Set	3/23/20
2 PAA	11/22/21
● REVISION DATE ●	
2 RFI 001/002	12/22/20
3 RFI 004	3/3/21

2 RFI 001/002	12/22/20
3 RFI 004	3/3/21

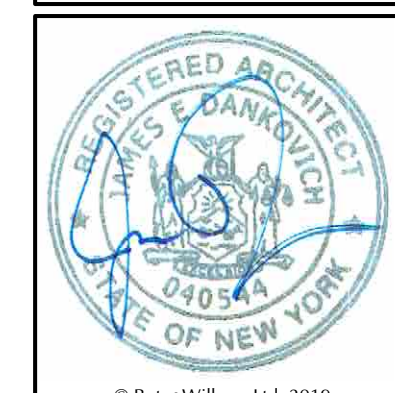
1454 39th. Self Storage



B30W
BUTZ•WILBERN LTD

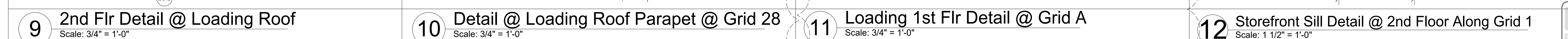
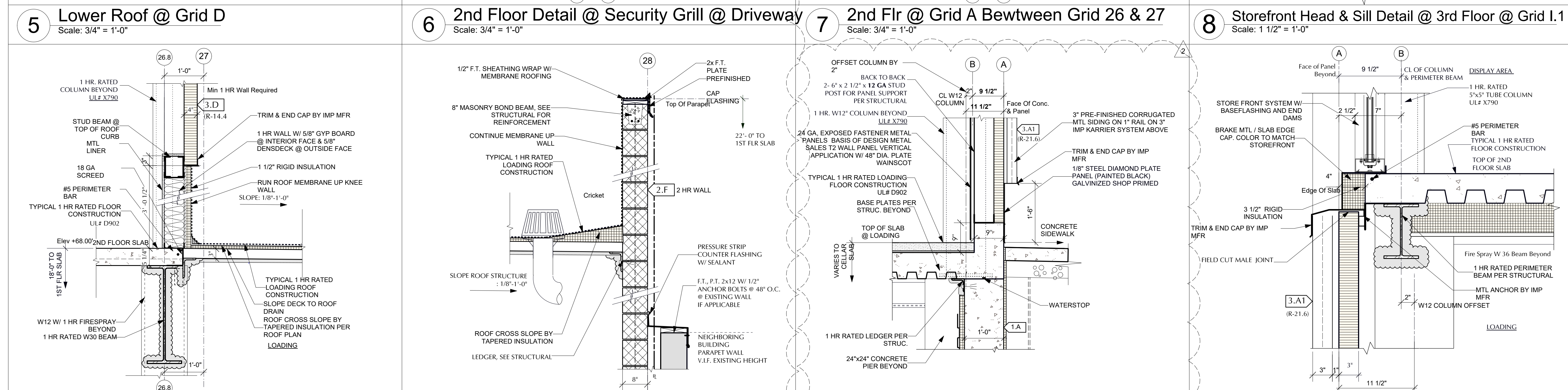
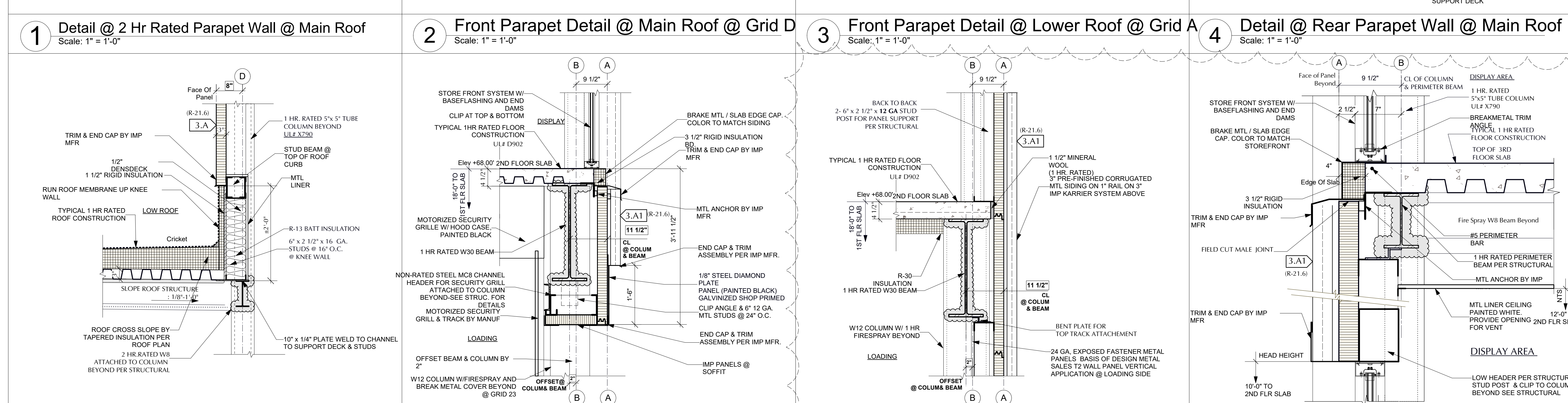
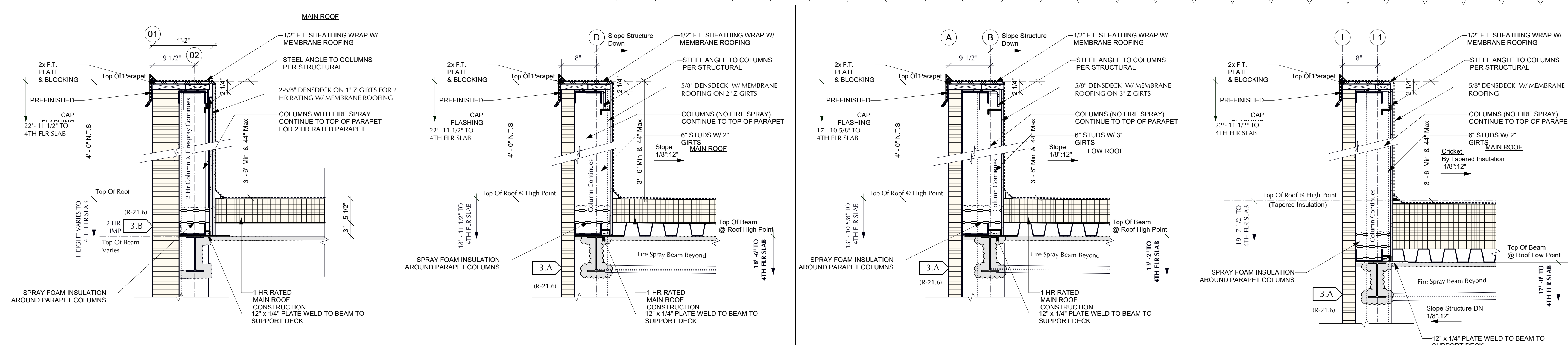
Planning | Architecture
Interiors | Property Visioning

800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010



SECTION DETAILS

A-504.01



1454 39th. Self Storage

Safe N Lock

1454 39TH ST.
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK



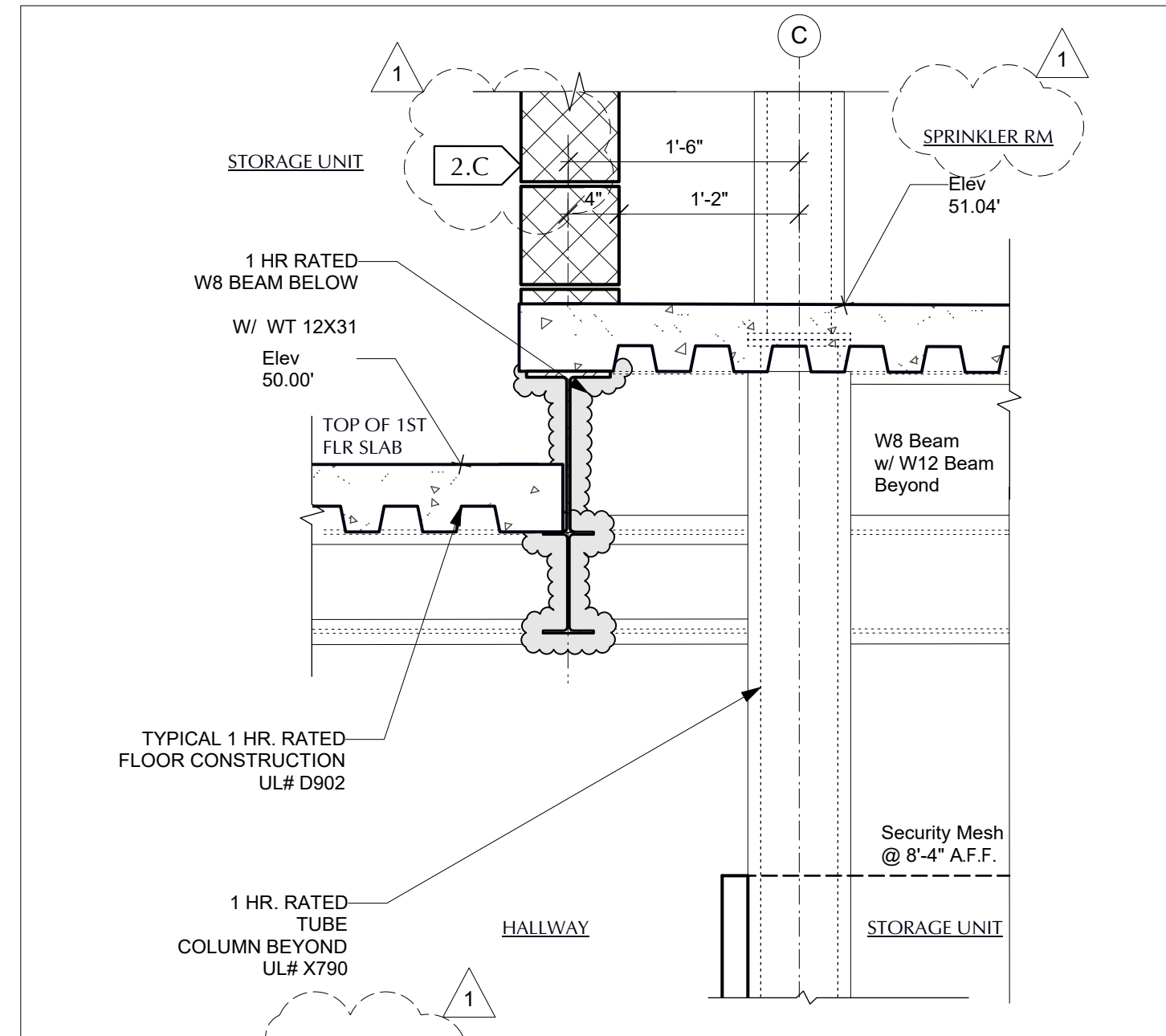
Planning | Architecture
Interiors | Property Visioning
800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010



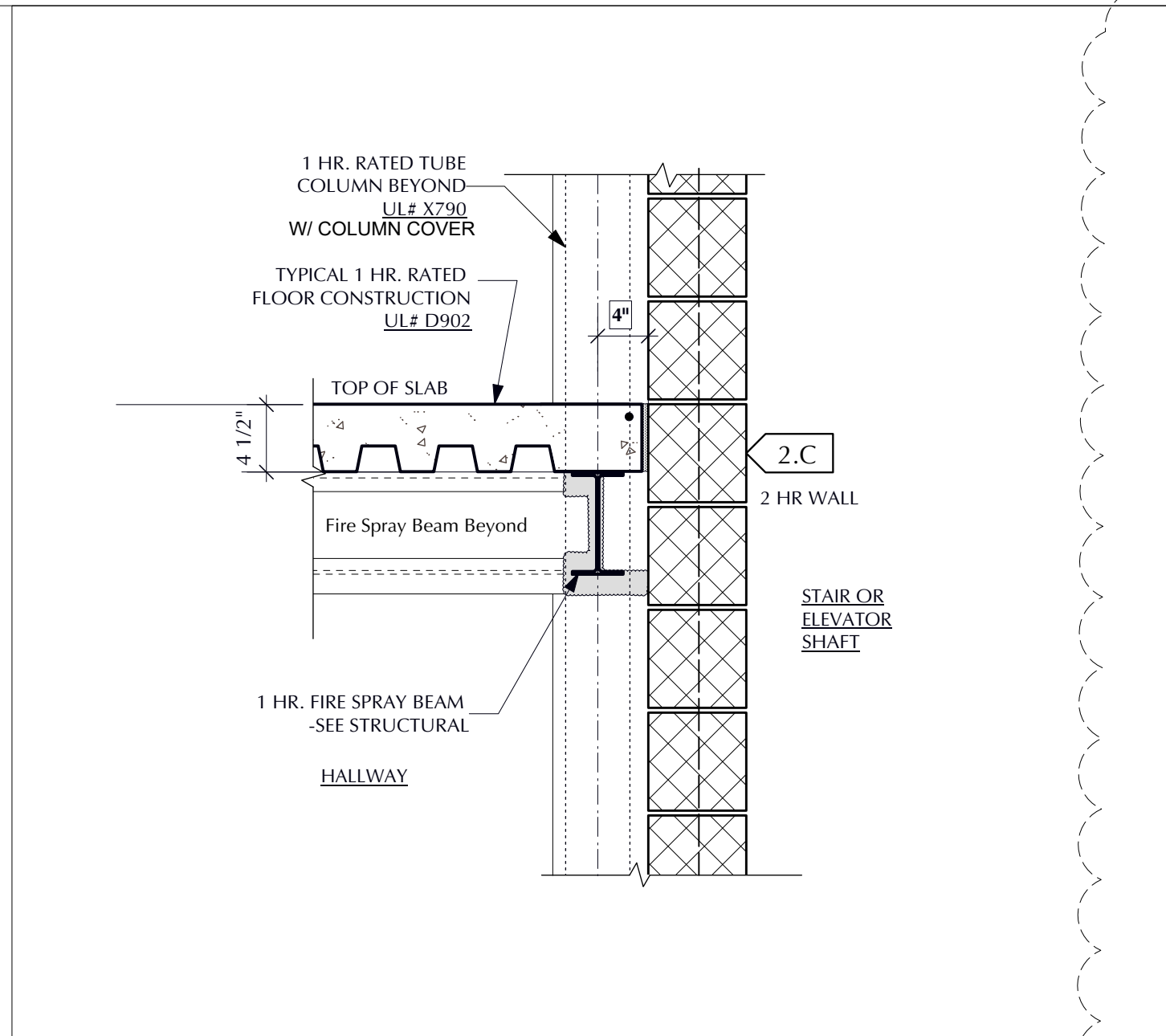
SECTION
DETAILS

A-505.01

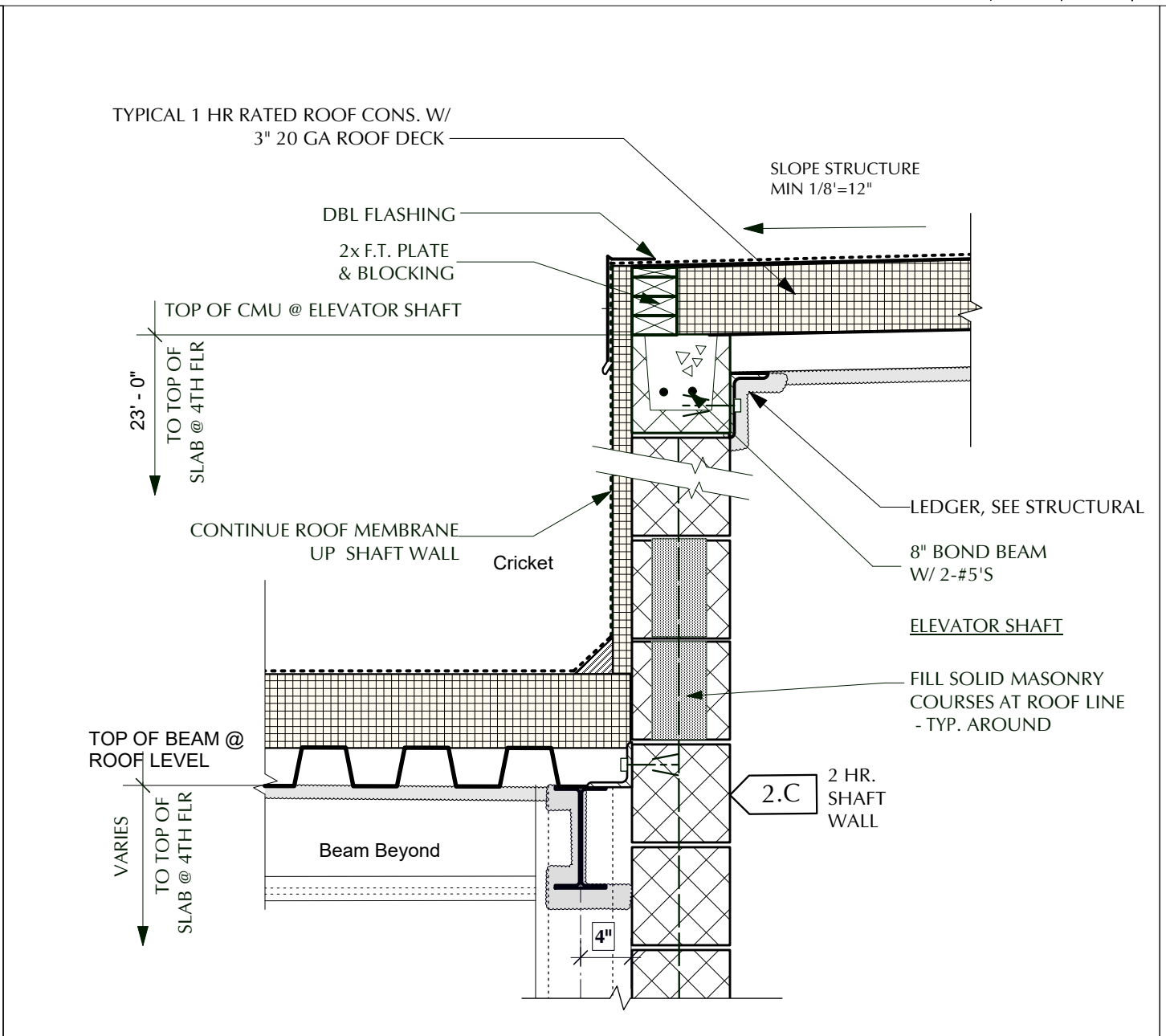
46 OF 49
19010



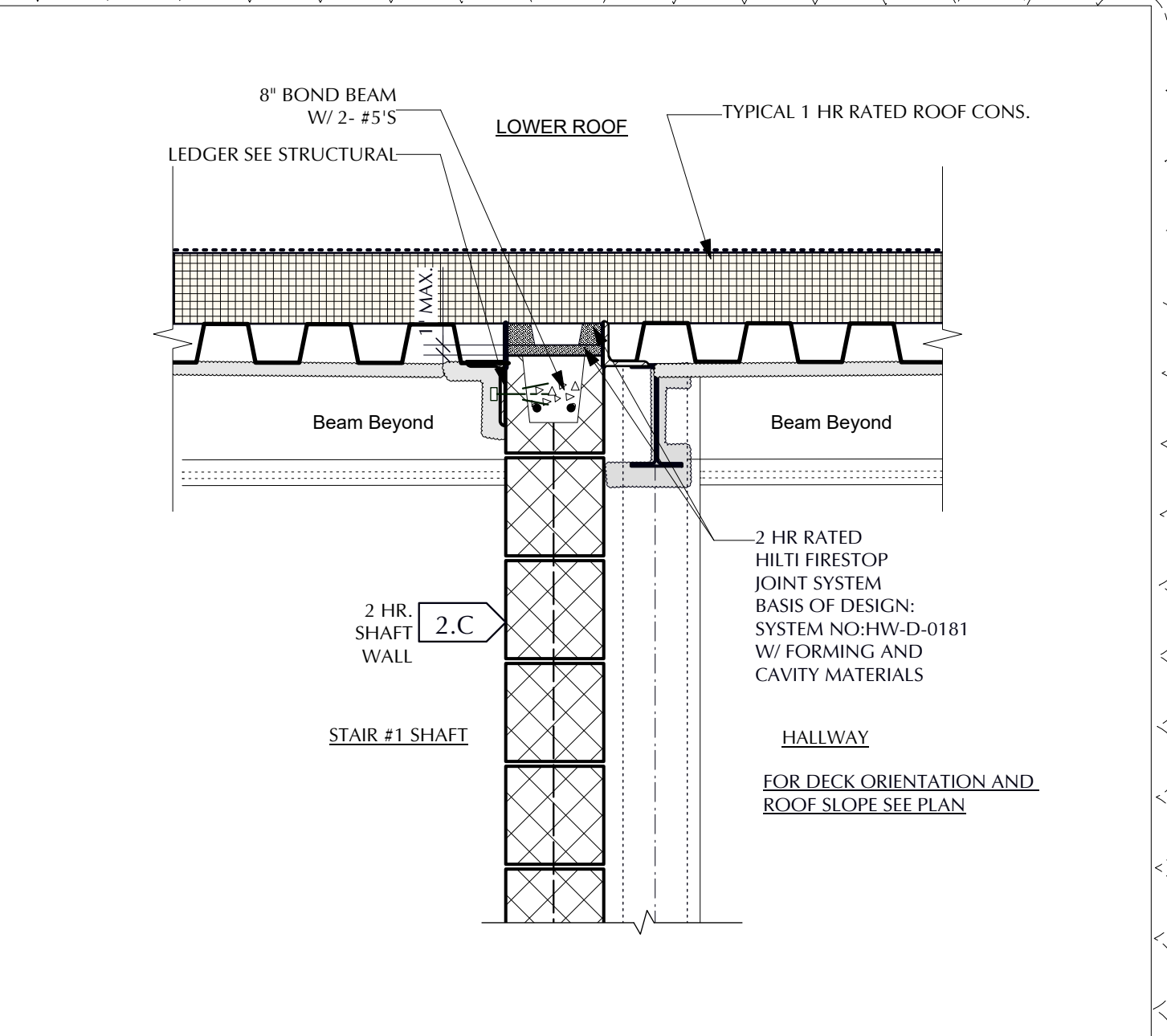
1 Raised Sprinkler Room Slab Detail
Scale: 1" = 1'-0"



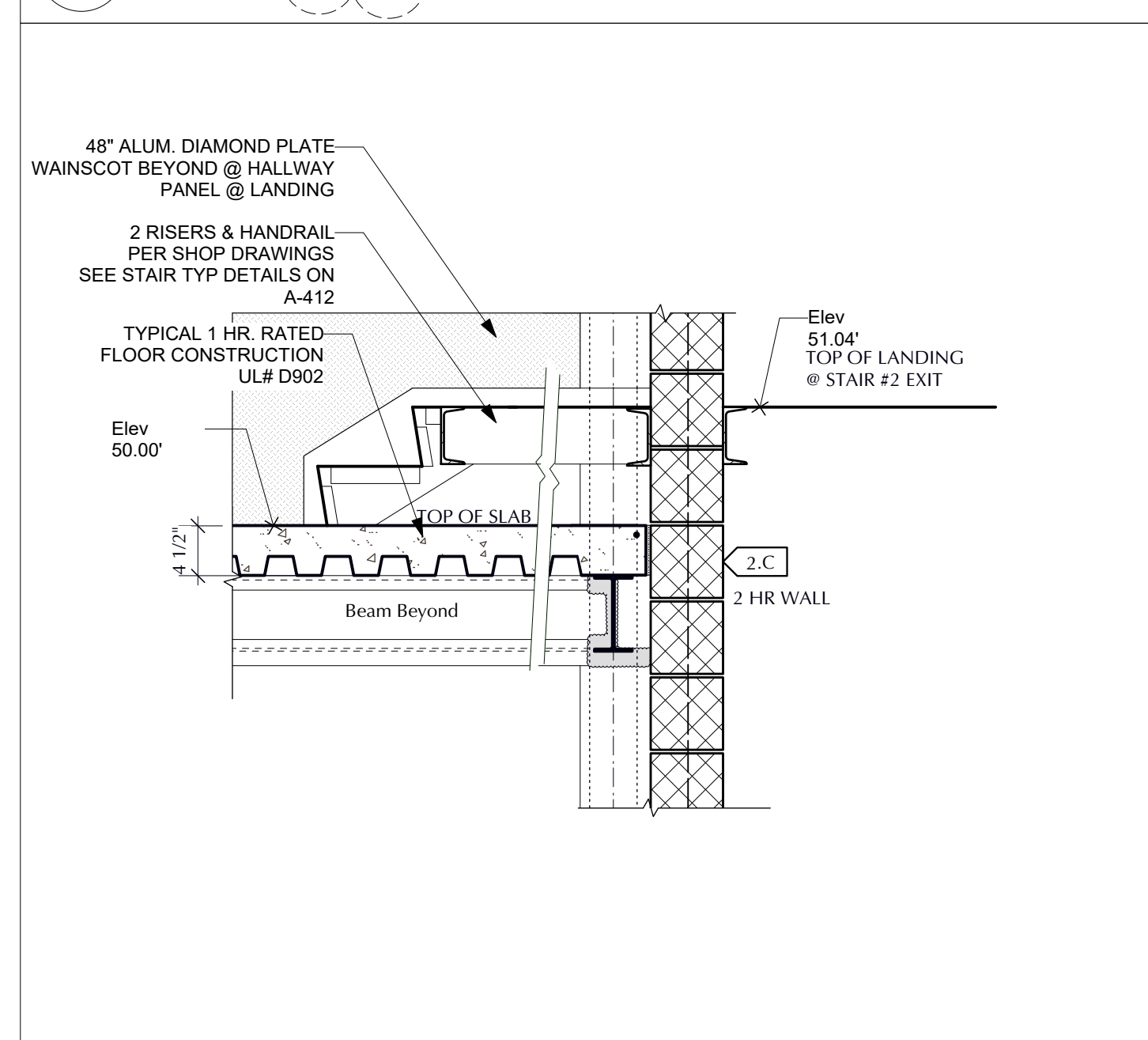
2 Typical Floor Detail @ CMU Shaft Wall
Scale: 1" = 1'-0"



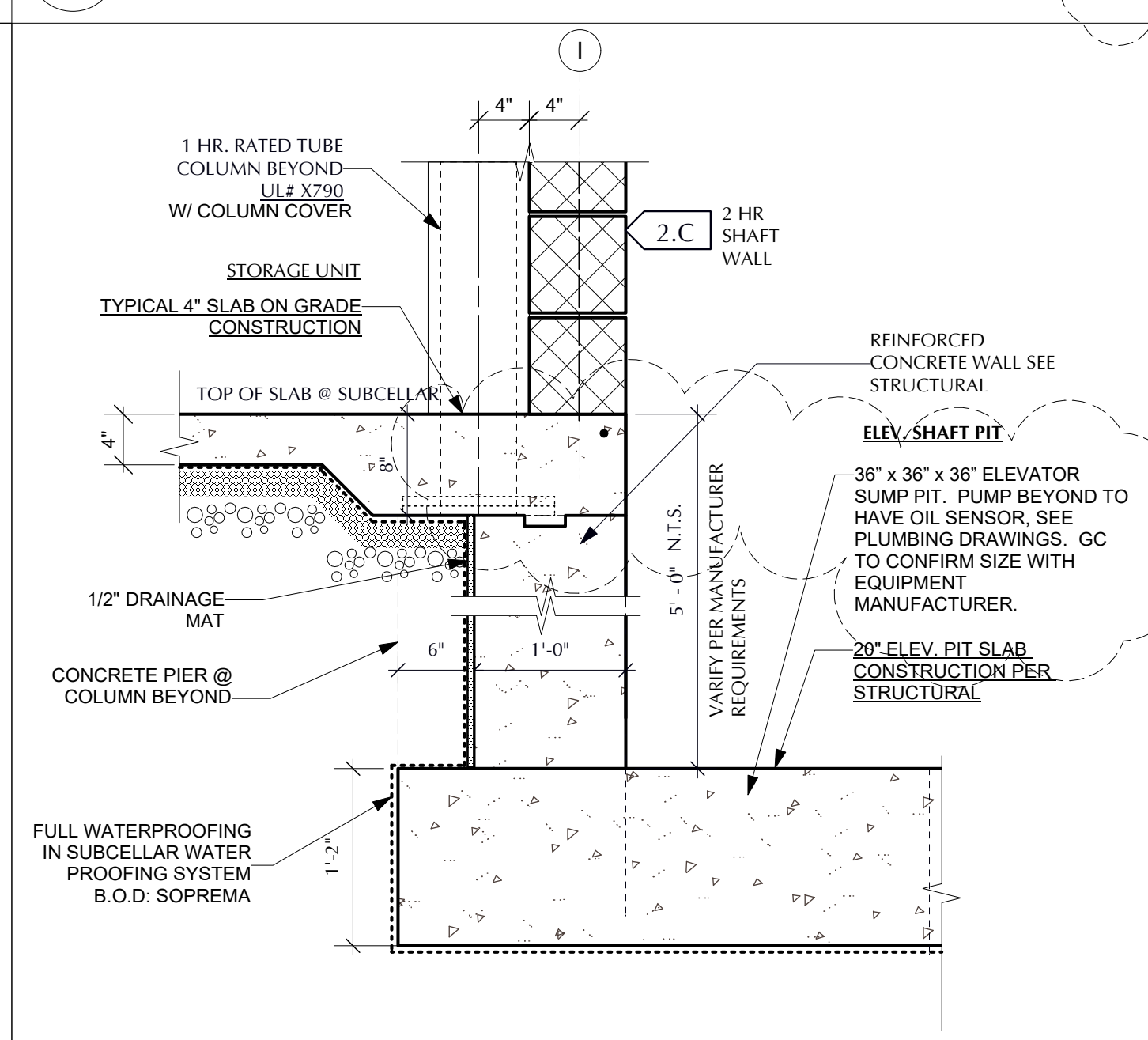
3 Typical Roof Detail @ Elevator Shaft
Scale: 1" = 1'-0"



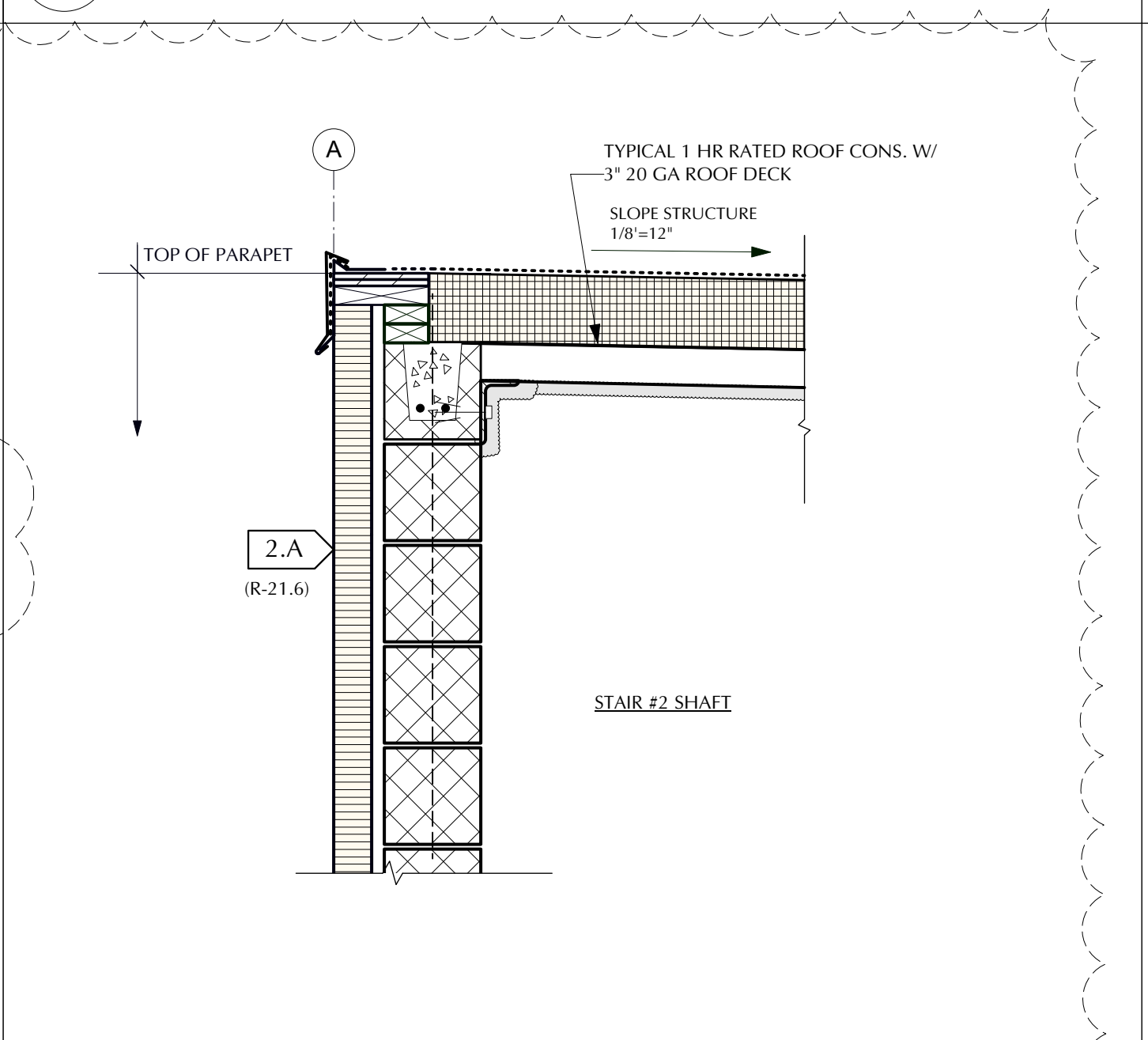
4 Typical Roof Detail @ Stair #1 Shaft @ Lower Roof
Scale: 1" = 1'-0"



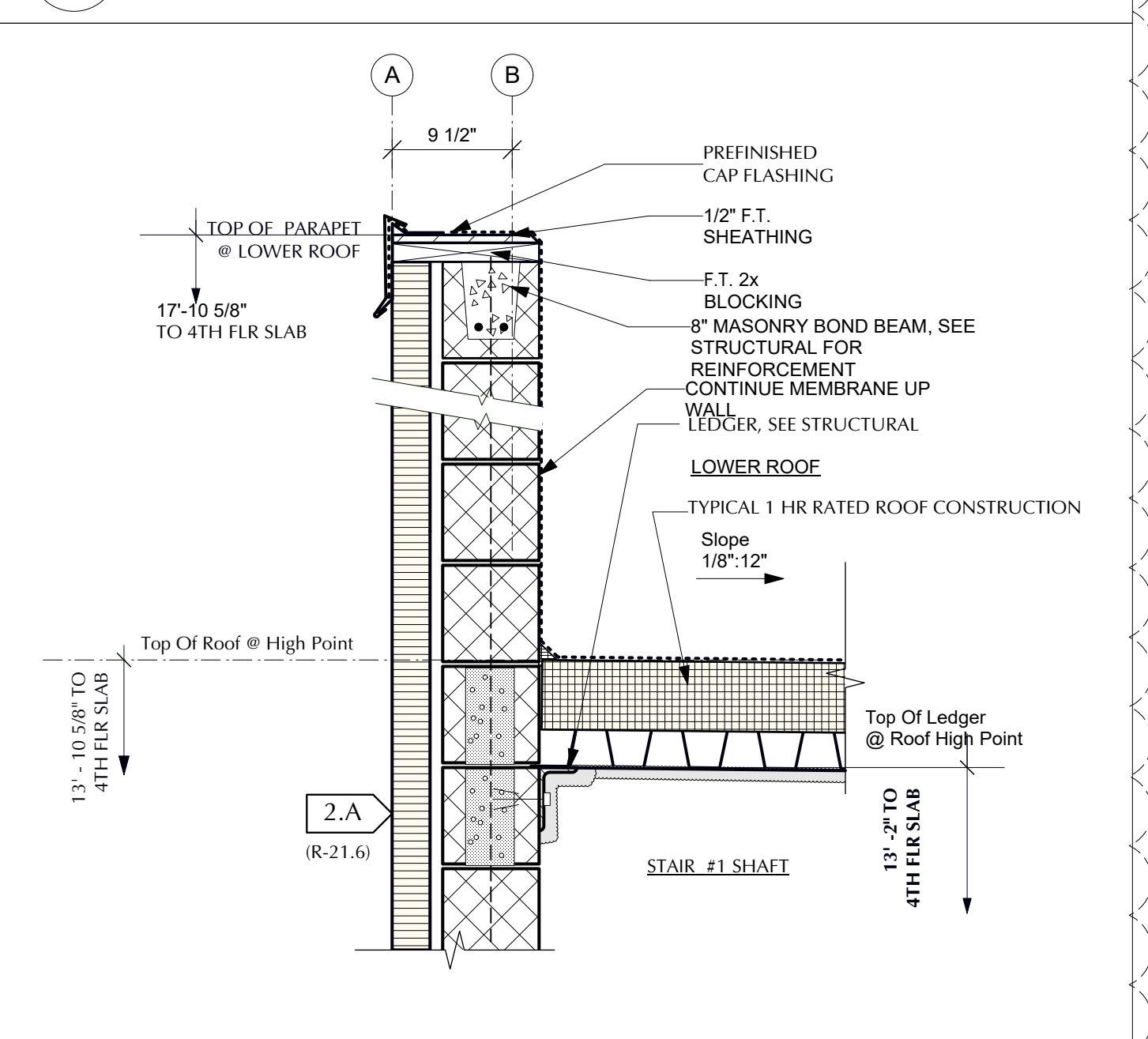
5 Stair #2 Shaft Landing @ Storage Side w/ 2 Risers
Scale: 3/4" = 1'-0"



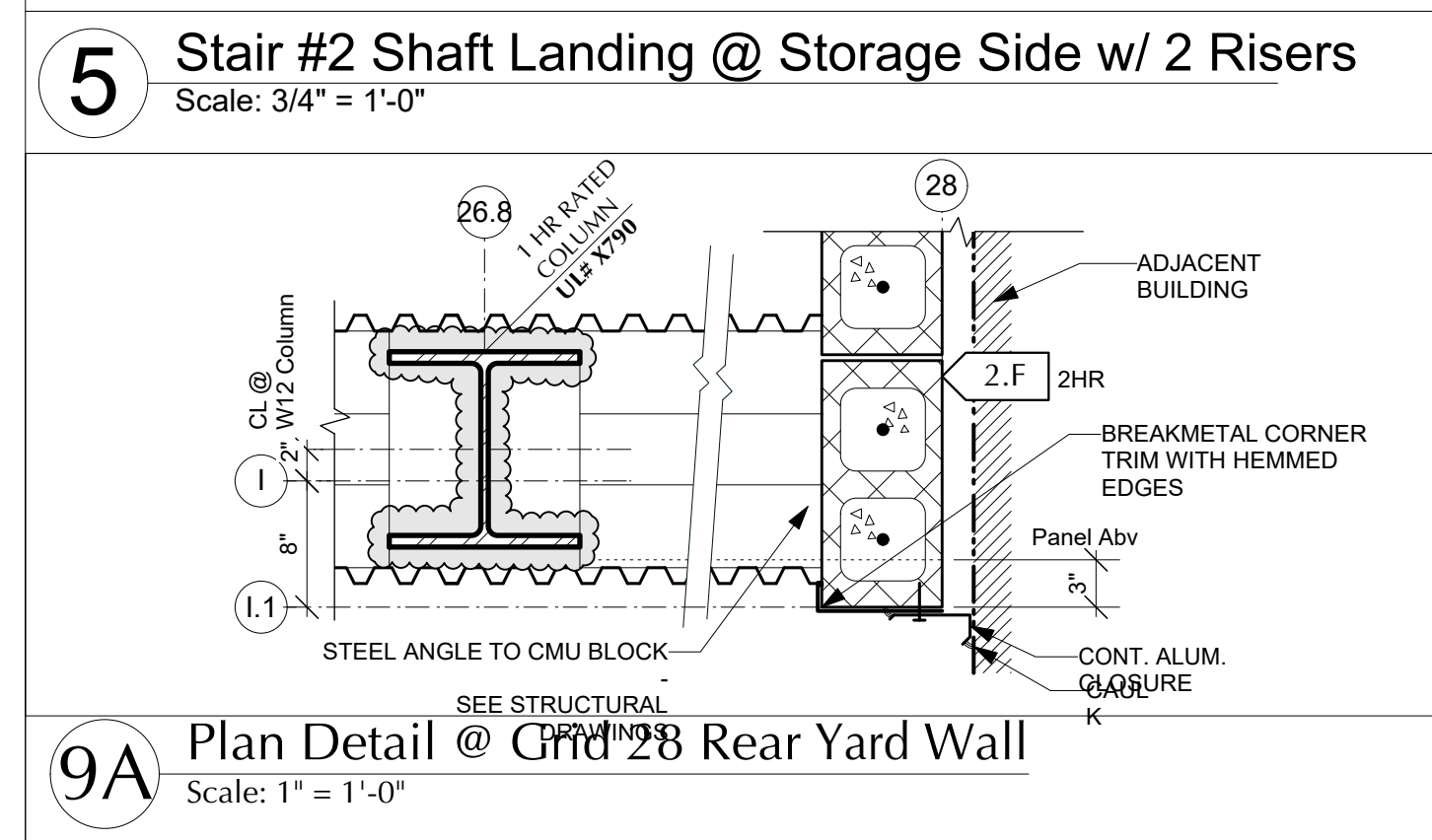
6 Elevator Pit Foundation Detail @ Grid I
Scale: 1" = 1'-0"



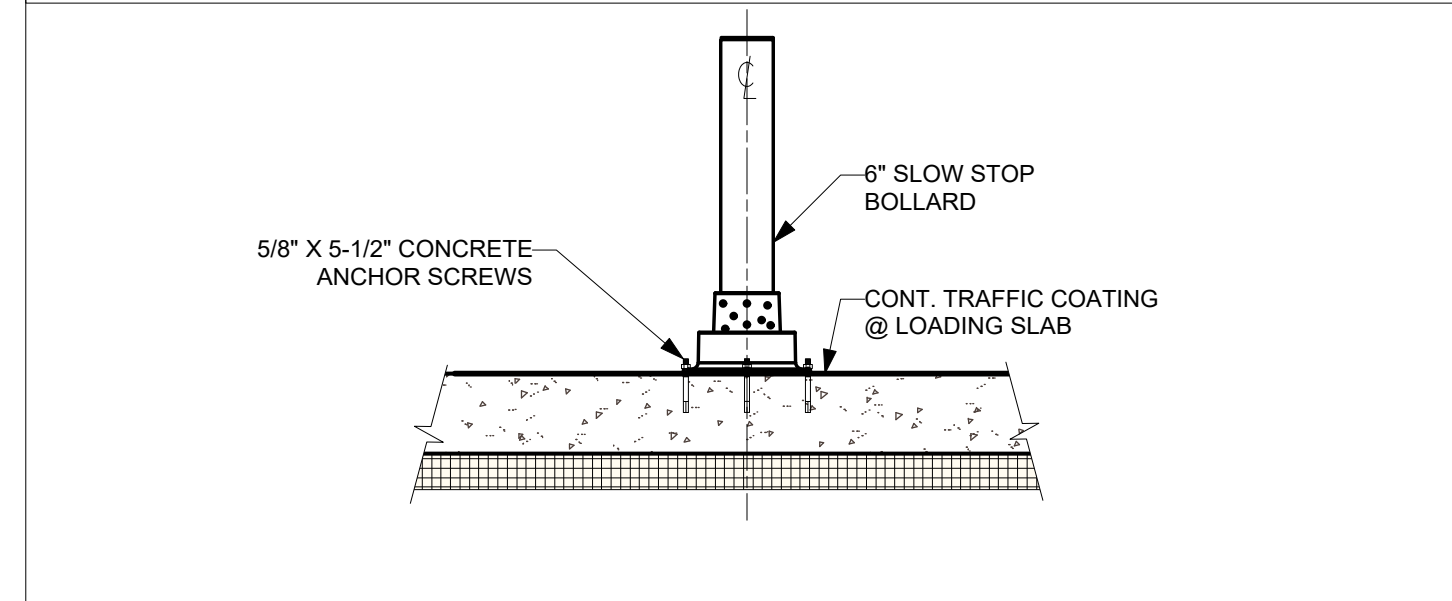
7 Stair#2 Grid A Roof Detail @ Main Roof Landing Level
Scale: 1" = 1'-0"



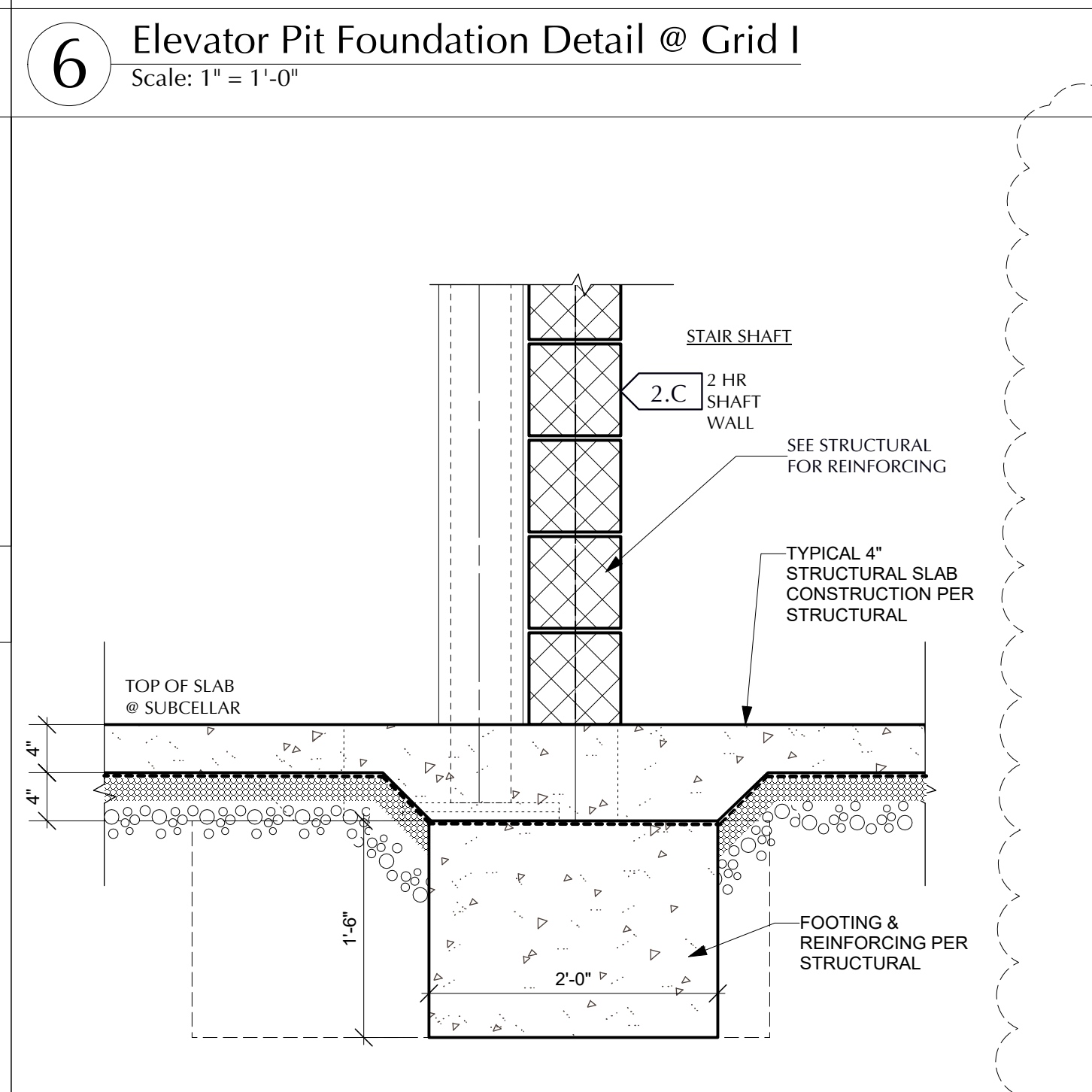
8 Stair#1 Roof Detail @ Grid A @ Lower Roof
Scale: 1" = 1'-0"



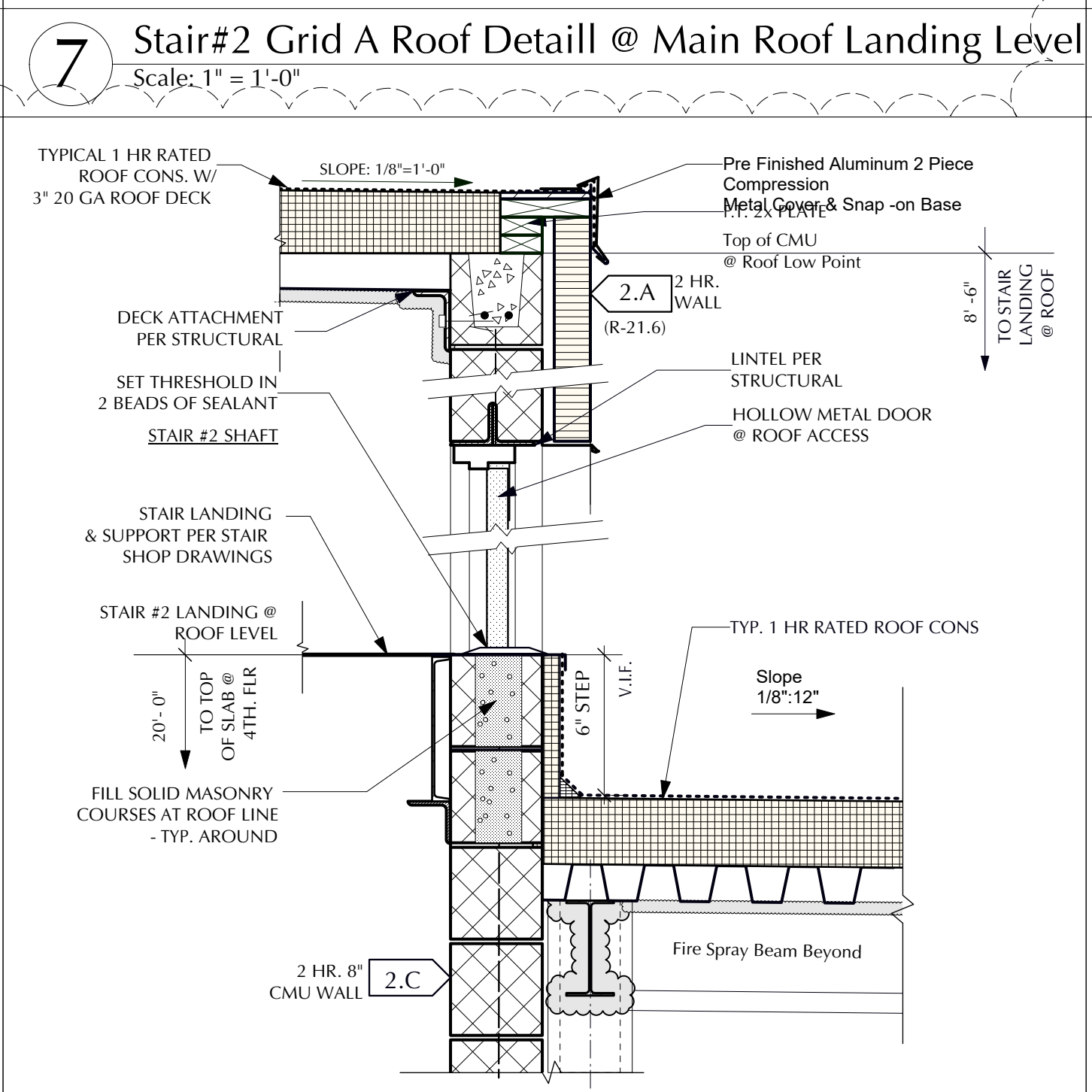
9A Plan Detail @ Grid 28 Rear Yard Wall
Scale: 1" = 1'-0"



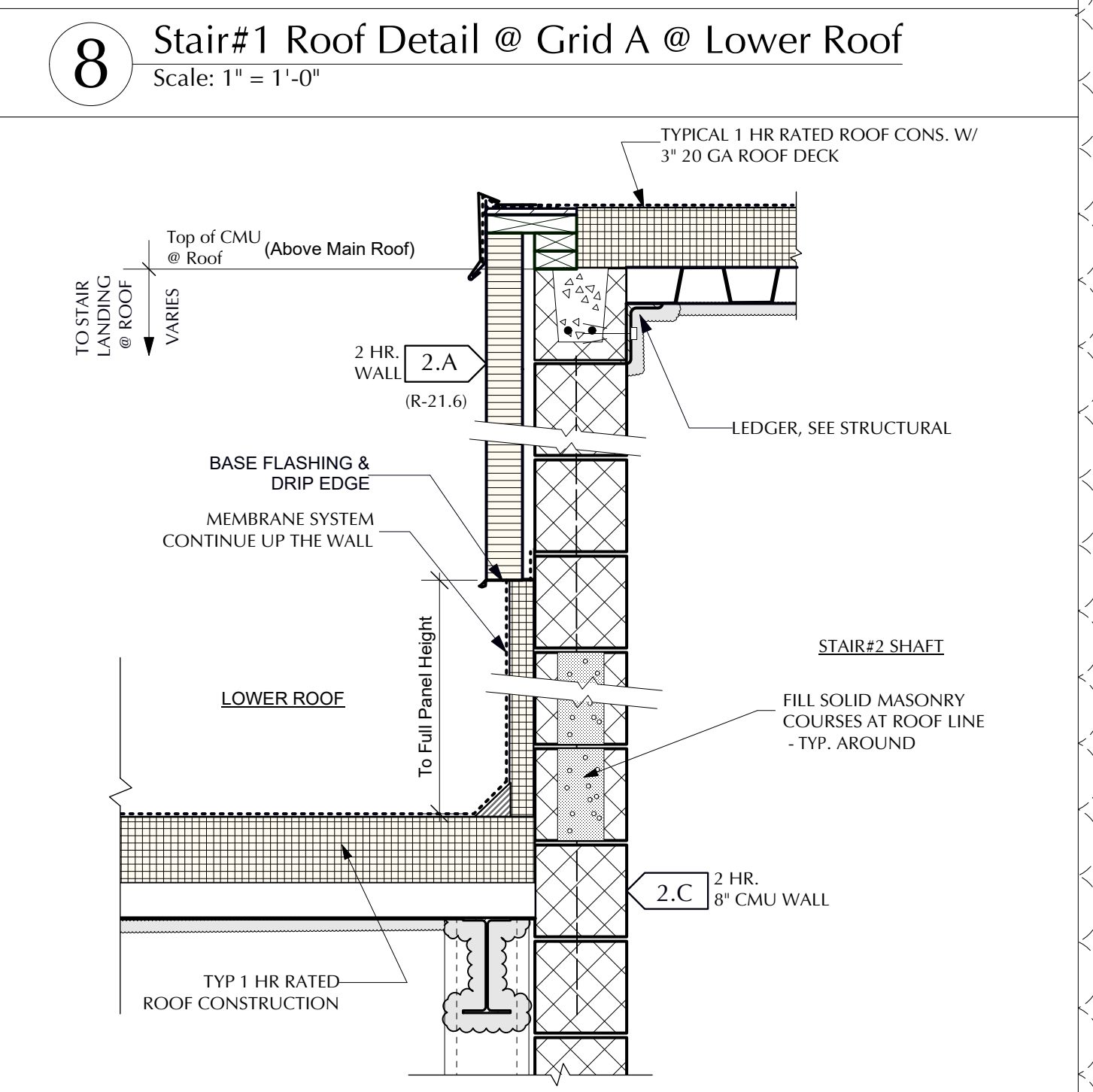
9B Slow Stop Bollard Detail
Scale: 1/2" = 1'-0"



10 Foundation Detail @ Stair Shaft
Scale: 1" = 1'-0"



11 Roof Detail @ Stair #2 Roof Level Landing
Scale: 1" = 1'-0"



12 Lower & Main Roof Detail @ Stair #2 Wall
Scale: 1" = 1'-0"

NOTE: SEE STRUCTURAL PLAN & DETAILS FOR STRUCTURAL INFORMATION

1454 39th. Self Storage

Safe N Lock
1454 39TH ST.
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK

ISSUE DATE		
1 Permit Set	3/23/20	
2 PAA	11/22/21	
REVISION DATE		
1 RFI 001	6/01/20	
3 RFI 004	3/3/21	

B³⁰W
BUTZ • WILBERN LTD
Planning | Architecture
Interiors | Property Visioning
800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010



SECTION
DETAILS

A-506.01

Shabnam Shirinpoor OF 49
19010
APPROVED
Under Direction of JTS
AMENDED APPLICATION
Date: 04/07/2022
NYC Development Hub

1 Detail @ Front Awning
Scale: 3/4" = 1'-0"

2 Banding @ Retail Entry @ Covered Loading
Scale: 1" = 1'-0"

3 Typ. Floor Detail @ Rated Panel
Scale: 1" = 1'-0"

4. Roof Detail @ Grid 27

8 Retail Front Wall Section @ Awning
Scale: 3/4" = 1'-0"

9 Section @ Stair #2 Recessed Exit Door
Scale: 3/4" = 1'-0"

10 Section @ Stair #1 Recessed Exit Door
Scale: 3/4" = 1'-0"

11 Dumpster Plan

ISSUE DATE	
1 Permit Set	3/23/20
2 PAA	11/22/21

REVISION DATE	
2 RFI 001/002	12/22/20
3 RFI 004	3/3/21



1454 39th. Self Storage

Safe N Lock
1454 39TH ST.

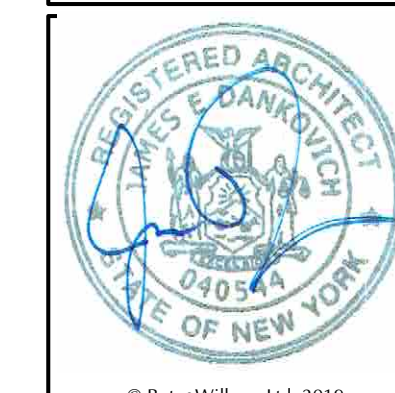
1454 39TH ST.
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK



BUTZ•WILBERN LTD

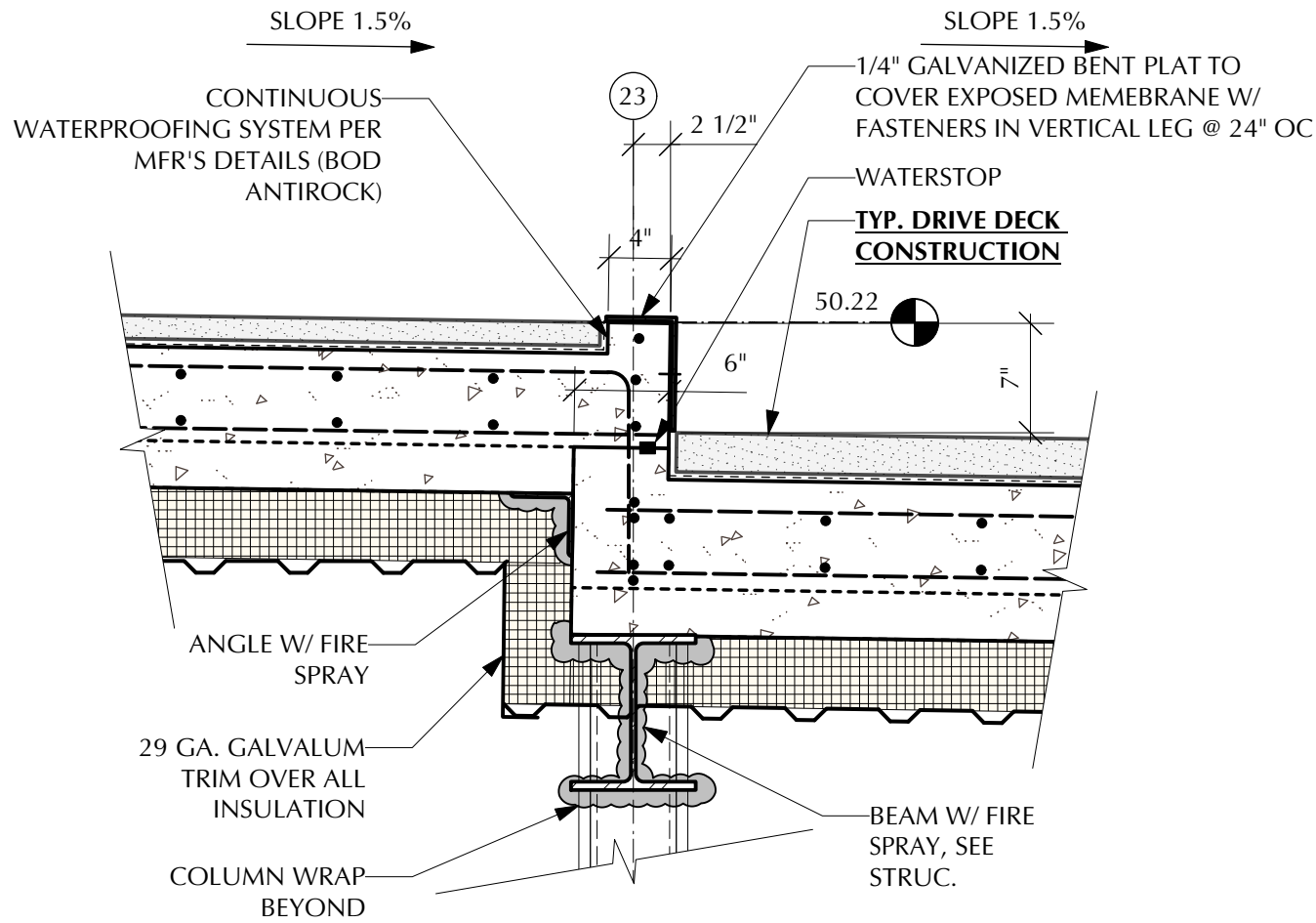
Planning | Architecture
Interiors | Property Visioning

800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7011

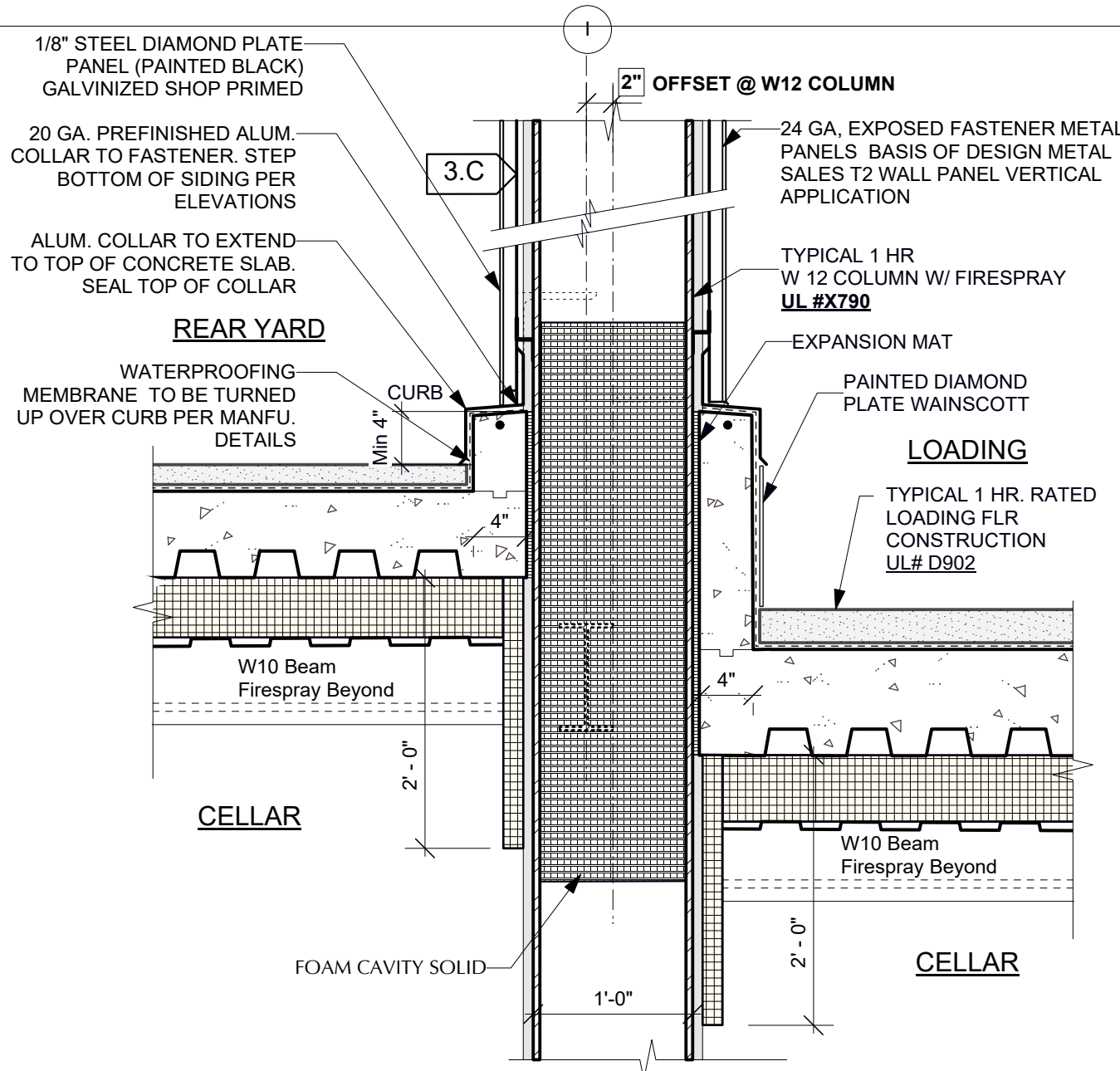


SECTION DETAILS

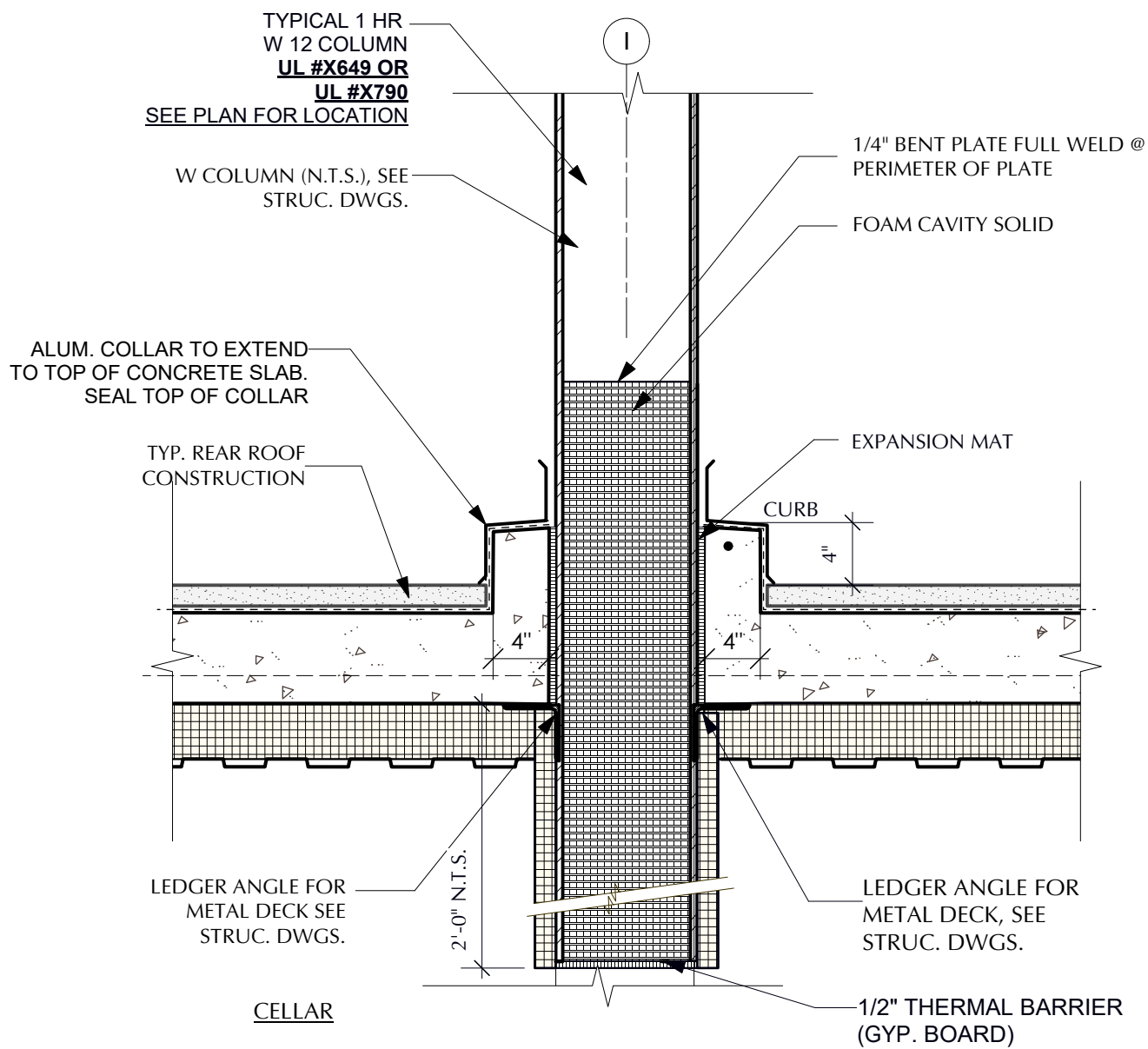
A-507.01



1 STEP @ LOADING DOCK
Scale: 1" = 1'-0"



2 Section @ Loading Column @ Grid I
Scale: 1" = 1'-0"



3 Rear Roof W12 Column Section Along Grid I
Scale: 1" = 1'-0"

1454 39th. Self Storage

Safe N Lock
1454 39TH ST.
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK



BUTZ-WILBERN LTD

Planning | Architecture
Interiors | Property Visioning

800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010

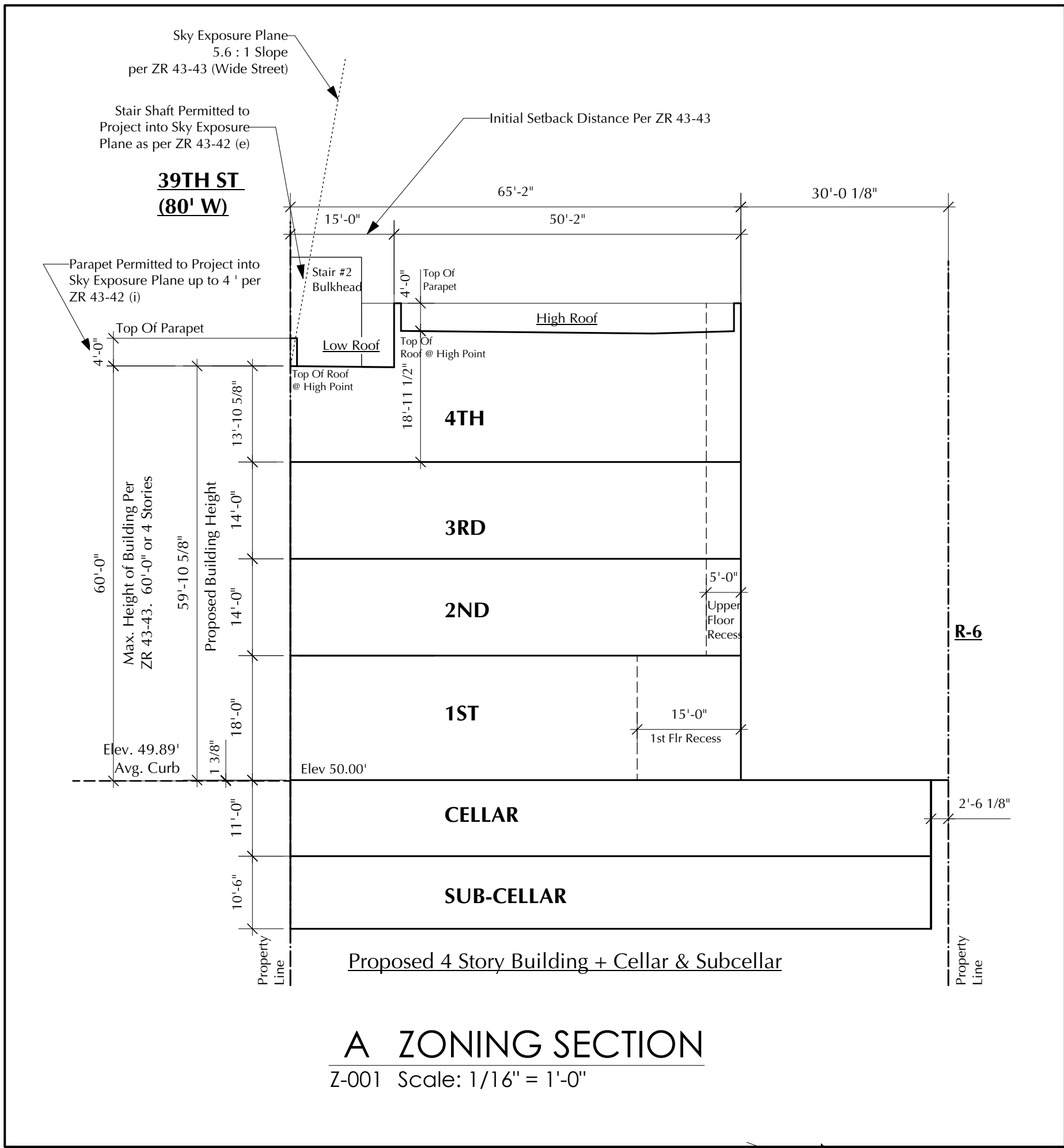


SECTION
DETAILS

A-508.00

49 OF 49

19010



STREET TREE CALCULATIONS		
	Applicable Street Frontage	
39th Street	300'0"	
Curb Cut	-30'0"	
Total Frontage	270'0"	

270' / 25' = 11 Trees Required

3 STREET TREE CALCS

CURB LEVEL ANALYSIS			
STREET FRONTAGE	CURB LEVEL (AVERAGE EXISTING TOP OF CURB ELEVATIONS GIVEN IN NAVD 88 DATUM)	LENGTH OF CURB	WEIGHTED CURB LEVEL
39th Street	997.74 : 20 = 49.89'	300'0"	49.89 x 240 / 240 = 49.89'
Total:		300.00	49.89'

2 AVERAGE CURB CALCULATION

- Per FEMA Flood Hazard Map Panel 360497 213F (issue date 09/05/2017) is not printed because project site is located in ZONE X, thus this site is not located in a flood zone.
- This site is located more than 200 FT from any MTA/NYC Transit infrastructure.

ETC Level Total Values	Curb Level
1	48.78
2	48.94
3	49.04
4	49.18
5	49.31
6	49.23
7	49.42
8	49.77
9	50.02
10	50.03
11	48.98
12	50.18
13	50.13
14	50.53
15	50.67
16	50.60
17	50.71
18	50.65
19	50.68
20	50.87
Total	997.74

Zoning Summary

Zoning Classification	M1-2
Zoning Map Number	22C
Block Number	5346
Lot Number	17
Lot Number	15 & 16 (Zoning Lot Merger)

Site Statistics

Lots 17, 26, 28 & 149 area	24,838 SF	(Excluding Residential Area)
Lot 15 area	1,903 SF	(Zoning Lot Merger)
Lot 16 area	1,903 SF	(Zoning Lot Merger)
Total Zoning Lot Area	28,644 SF	
Commercial FAR	2.00	per ZR 43-12
Community Use FAR	4.80	per ZR 43-122
Total Allowed Commercial Area	57,288 SF	
Total Allowed Community Use Area	137,491 SF	
Total Gross Self Storage Area	107,304 SF	
Total Gross Medical Offices Area	6,665 SF	
Total Combined Gross Building Area	113,969 SF	
Allowable Parking and Loading Space Deduction 6,000 SF (Actual Loading Area is 5,708 SF) See Z-002	-5,708 SF	Interior Loading & Parking Spaces Per ZR 12-10
	-22,051 SF	Cellar @ Self Storage Per ZR 12-10
	-22,051 SF	SubCellar @ Self Storage Per ZR 12-10
	-135 SF	Cellar @ Medical Cener Per ZR 12-10
	-210 SF	Stair Bulkhead Per ZR 12-10
Total Combined FAR Area	63,814 SF	
Total Proposed Commercial FAR Area	57,284 SF	
Total Proposed Community Use FAR Area	6,530 SF	
Complies - See Z-002 for Calculations		
Conversion Filed Under Separate Application		

Regulation	Permitted/Required	Proposed Building	C=Complies	Applicable ZR Section
Proposed Self Storage Use Building (Lots 17, 26, 28 & 149)				
Zoning Use Group	16	16D	C	42-00
PRC	N/A	G	C	44-21
Floor Area	57,288 SF	57,284 SF	C	43-12
Maximum Floor Area Ratio (FAR)	2.00	2.00	C	43-12
Minimum Rear Yard (FT)	30'0"	30'0"	C	43-302
Minimum Side Yard (FT)	8'0"	0"	C	43-25
Front Yard (FT)	0"	0"	C	No Requirement
Maximum Height of Building	N/A	60'0"	C	43-43
Maximum Building Height @ Street (FT)	60'0"	59'10 5/8"	C	43-43
Number of Parking Spaces (See Note #2)	1	8	C	44-21
Number of Loading Berths (See Note #3)	3	3	C	44-52
Size of Loading Berths	50' X 12' 14'	50' X 12' 14'	C	44-581

Medical Office Building Conversion (Lots 15 & 16)				
Zoning Use Group	4	4A	C	42-00
Floor Area	137,491 SF	6,530 SF	C	43-122
Maximum Floor Area Ratio (FAR)	4.80	0.228	C	43-122
Minimum Rear Yard (FT)	30'0"	30'0"	Existing Non-Compliance	43-302
Minimum Side Yard (FT)	8'0"	0"	C	43-25
Front Yard (FT)	0"	0"	C	No Requirement
Maximum Height of Building	N/A	32'0"	C	43-43
Maximum Building Height @ Street (FT)	60'0"	32'0"	C	43-43
Number of Parking Spaces (See Note #4)	0	0	C	44-21
Number of Loading Berths (See Note #5)	0	0	C	44-52
Number of Bicycle Spaces (See Note #6)	1	1	C	44-60

FAR				
Proposed Commercial FAR	2.00	2.00	C	43-12
Existing Community Use FAR	4.80	0.228	C	43-122
Total FAR	-	2.23	C	

Notes:

- Maximum built area based on FAR of 2 for entire site.
- Accessory off street parking spaces are required. Per ZR 44-21: 1 space / 3 employees for storage
- Accessory off loading spaces are required buildings per ZR 44-52
- A) Parking Requirement for Existing Building:

Per the approved ZRD1 No. 66425, Building Existed as a One-Story Commercial Building Prior to 12/15/61. The building was constructed in 1927 as per DOB records and Sanborn Maps.

Existing building is exempt from the provisions of ZR44-21 for Required Parking Spaces

4. B) Parking Requirement for Second Floor Portion of the Building Added in 2007:

per ZR 44-23, up to 15 parking spaces can be waived as-of-right for Community Facilities. The existing building was enlarged by the addition of 2,607 SF as a 2nd Floor in 2007 under Alt-1 No. 30215199.

Per ZR44-21, one (1) parking space is required for 300 SF of Zoning Floor Area in Enlarged Areas in Community Facility Buildings in M1-2 Districts

2,607 SF of New Floor Area / 300 SF = 12.66 or 13 Spaces

13 Spaces is Less Than 15, which means 0 parking spaces are required based on ZR 44-23.

5. Accessory off loading parking spaces are not required per ZR 44-52

6. Accessory off bicycle parking spaces are required per ZR 44-60

Storage (3 Employees)	Medical Office (Not Required)
1 Space	0 Space
3. Loading Berths are required as follows: Per ZR (44-52)	
Storage (57,285 SF)	Medical Office (6,402 SF)
0 Berths for the first 8,000 SF	0 Berths for the first 25,000 SF
1 Berths for the next 17,000 SF	
1 Berths for the next 15,000 SF	
1 Berths for the next 20,000 SF	

44-21
General Provisions
M1 M2 M3

In all districts, as indicated, accessory off-street parking spaces, open or enclosed, shall be provided in conformity with the requirements set forth in the table in this Section for all development after December 15, 1961, for the manufacturing, commercial or community facility uses listed in the table. In addition, all other applicable requirements of this Chapter shall apply as a condition precedent to the use of such development. After December 15, 1961, if an enlargement results in a net increase in the floor area or other applicable unit of measurement specified in the table in this Section, the same requirements set forth in the table shall apply to such net increase in the floor area or other specified unit of measurement. A parking space is required for a portion of a unit of measurement one-half or more of the amount set forth in the table.

44-22
Special Provisions for a Single Zoning Lot With Uses Subject to Different Parking Requirements
M1 M2 M3

In all districts, as indicated, where any building or zoning lot contains two or more uses having different parking requirements as set forth in Section 44-21 (General Provisions), the parking requirements for each type of use shall apply to the extent of that use.

ISSUE DATE	
1 Permit Set	3/23/20
2 PAA	11/22/21

REVISION DATE	
4 RFI 016	11/3/21

1454 39th Street Self Storage

Safe N Lock
1454 39TH ST
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK

B³⁰W
BUTZ•WILBERN LTD

Planning | Architecture
Interiors | Property Visioning

800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010



ZONING ANALYSIS

Z-001.01

5 OF 49

19010

ZONING ANALYSIS SUMMARY FOR YARD REGULATIONS

LETTER	ZONING DEFINITION	REMARKS	CODE SECTION	COMPLIES
A	Interior Lot Portion	Required yards along district boundary coincident with rear lot lines of two adjoining zoning lots per ZR 43-302	In all districts, as indicated, along such portion of the rear lot line of a zoning lot in a Manufacturing District which coincides with a rear lot line of a zoning lot in an adjoining Residence District, an open area not higher than curb level and at least 30 feet in depth shall be provided within the Manufacturing District. Such an open area shall not be used for storage or processing of any kind.	YES
B	Interior Lot Portion	Residential Portion	N/A	N/A

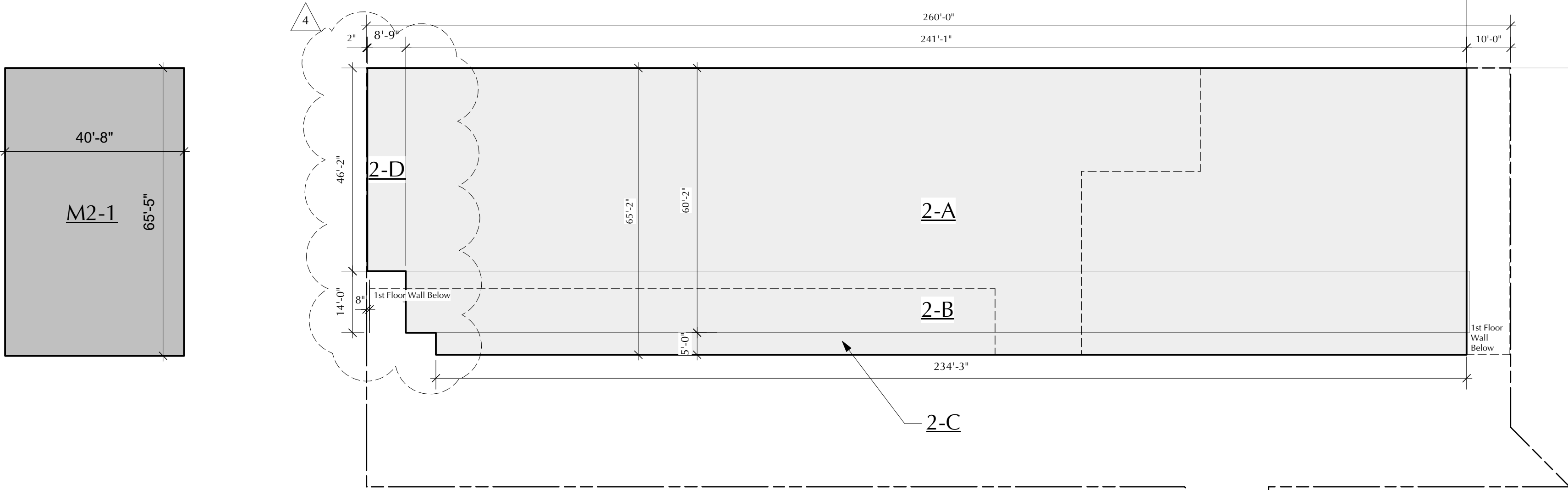
1 Zoning Plan

Z-001 Scale: 1/16" = 1'-0"

0 25 50

LOTS 17
AND DEVELOPMENT RIGHT PARCELS LOT 15 & 16
BLOCK 5346
LOT 17 AREA = 24,838 SF (not including Residential Portion B)
LOT 15 AREA = 1,903 SF
LOT 16 AREA = 1,903 SF
TOTAL LOT AREA (INCLUDING LOT 15 & 16 and Residential Portion B) = 28,644 SF

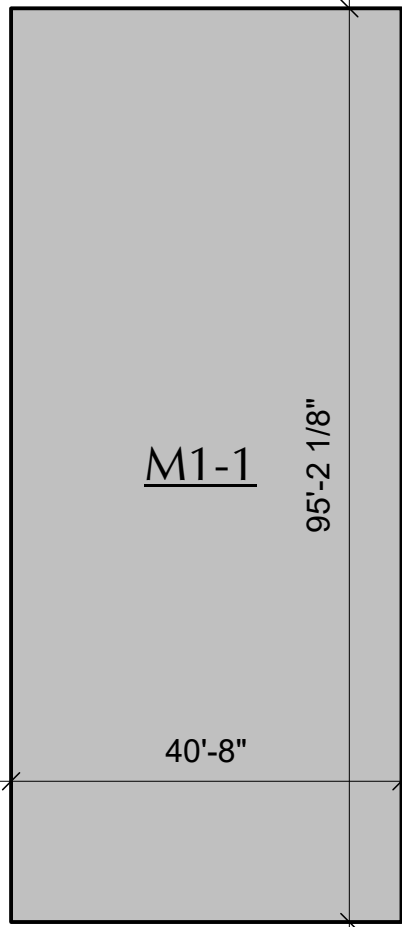
THIS DRAWING IS BASED ON 12/11/2019 DATED SURVEY BY GALLAS SURVEYING GROUP



6 Medical: 2nd Floor Areas

Z-002 Scale: 1" = 20'-0"

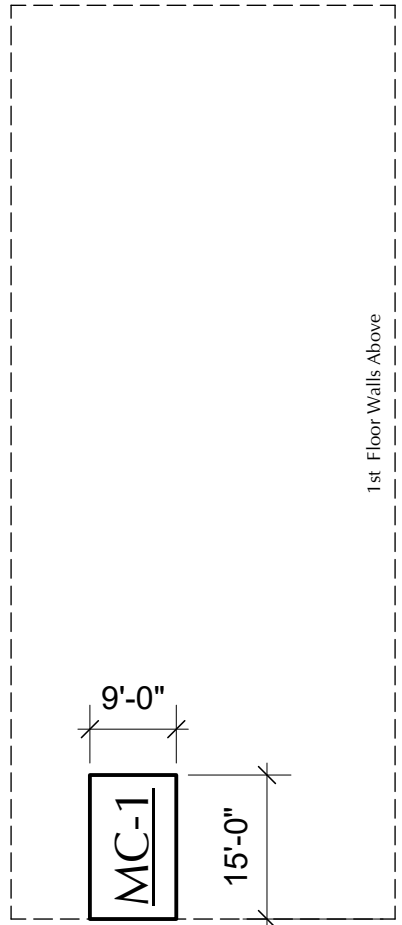
2ND FLR GROSS AREA 2,660 SF



5 Medical: 1st Floor Area

Z-002 Scale: 1" = 20'-0"

1ST FLR GROSS AREA TOTAL 3,870 SF



4 Medical: Cellar Floor Area

Z-002 Scale: 1" = 20'-0"

CELLAR FLR GROSS AREA TOTAL 135 SF (NON FAR)

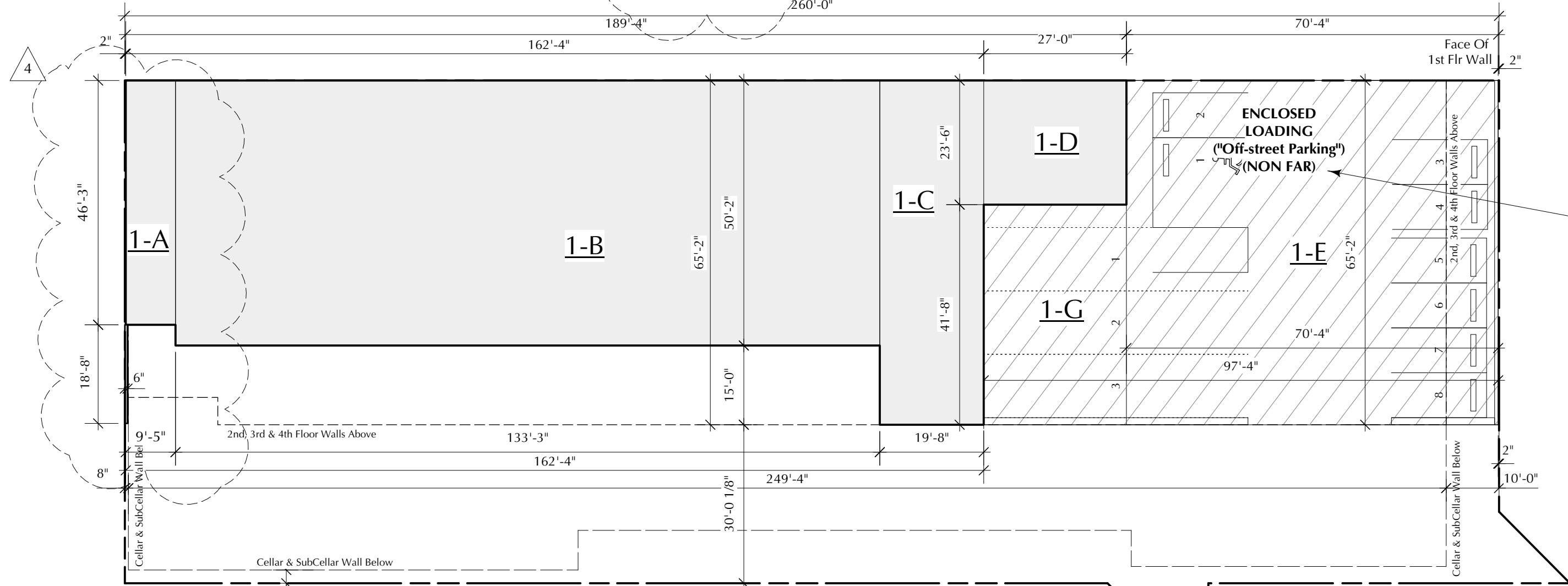
3 Self Storage: 2nd - 4th Floor Areas

Z-002 Scale: 1" = 20'-0"

2ND FLR GROSS AREA 16,080 SF

3RD FLR GROSS AREA 16,080 SF

4TH FLR GROSS AREA 16,080 SF

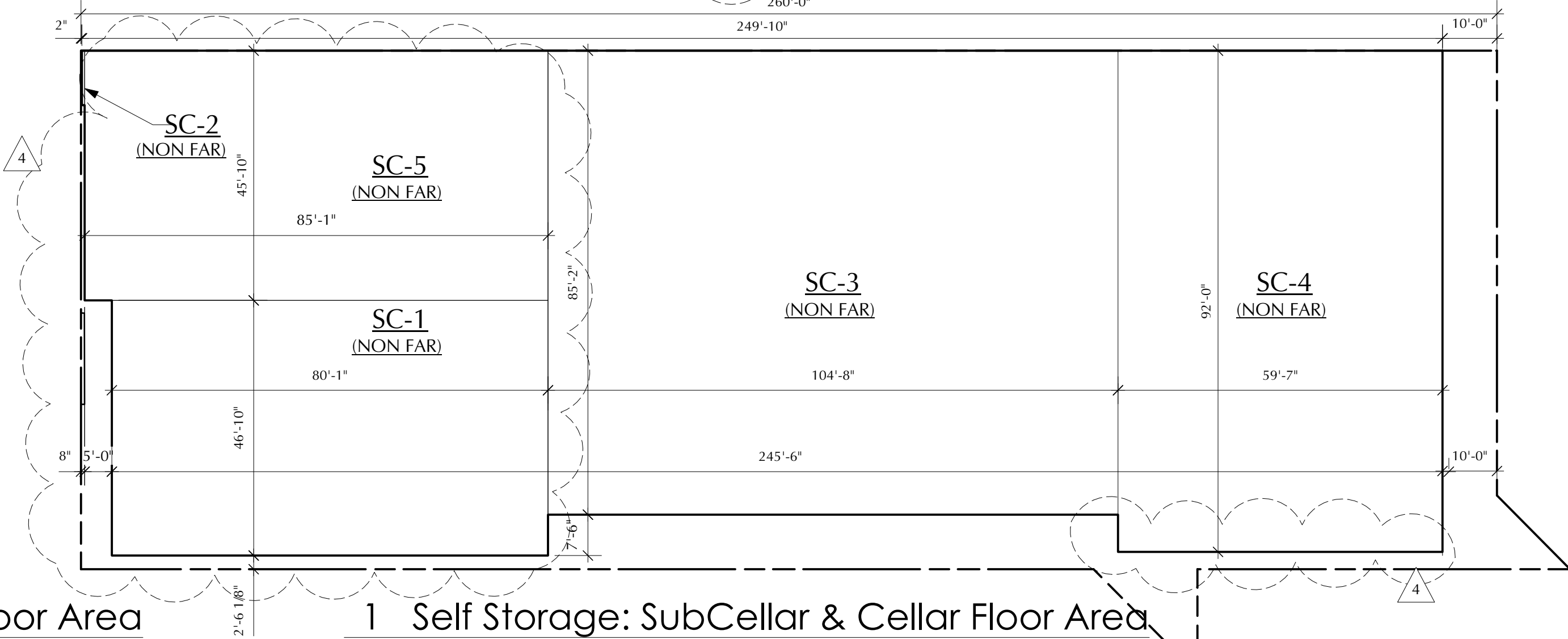


2 Self Storage: 1st Floor Area

Z-002 Scale: 1" = 20'-0"

1ST FLR GROSS AREA TOTAL 14,752 SF

1ST FLR FAR AREA TOTAL 9,044 SF

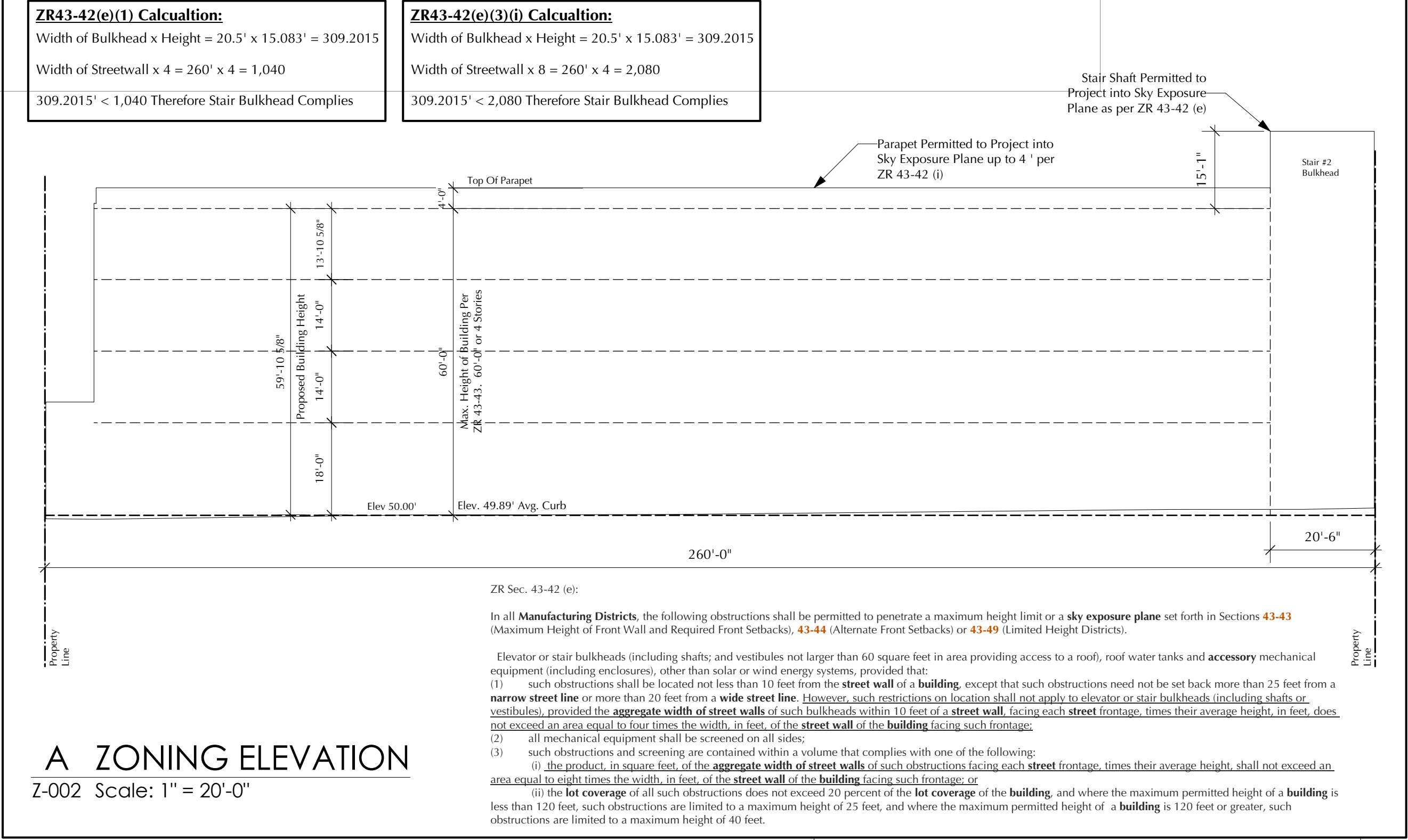


1 Self Storage: SubCellar & Cellar Floor Area

Z-002 Scale: 1" = 20'-0"

SUBCELLAR FLR GROSS AREA TOTAL 22,051 SF (NON FAR)

CELLAR FLR GROSS AREA TOTAL 22,051 SF (NON FAR)



A ZONING ELEVATION

Z-002 Scale: 1" = 20'-0"

NON FAR ENCLOSED LOADING

OFF-STREET PARKING AREA CALCULATIONS:

8 Parking Spots (Per ZR 44-40 & ZR 44-42)

8 x 300 Sf Each Parking Allowance = 2,400 SF

3 Loading Berths

3 Loading x 1,200 Sf Each Allowance = 3,600 SF

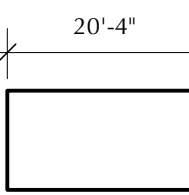
Total 3,600 + 2,400 = 6,000 SF NON FAR ZONING ALLOWANCE

ACTUAL LOADING AREA 5,708 SF

5,708 SF OF FAR LOADING DEDUCTION TAKEN

5-A

(NON FAR)



STAIR BULKHEAD 210

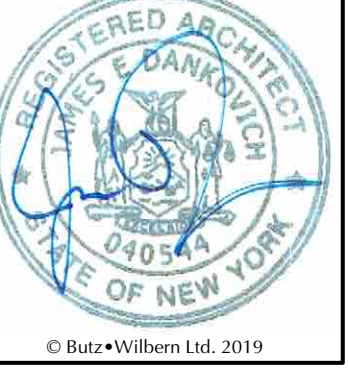
SF GROSS AREA

Proposed Self Storage Building @ Lot 17 (M-Use)						
LOCATION	AREA	WIDTH	HEIGHT	GROSS AREA	DEDUCTIONS	FAR TOTAL
SubCellar Plan	SC-1	80'1"	46'10"	3,751 SF	3,751 SF	0 SF
SubCellar Plan	SC-2	6"	10'0"	5 SF	5 SF	0 SF
SubCellar Plan	SC-3	104'8"	85'2"	8,914 SF	8,914 SF	0 SF
SubCellar Plan	SC-4	59'7"	92'0"	5,482 SF	5,482 SF	0 SF
SubCellar Plan	SC-5	85'1"	45'10"	3,900 SF	3,900 SF	0 SF
SUBCELLAR TOTAL				22,051 SF	22,051 SF	0 SF
CELLAR TOTAL				22,051 SF	22,051 SF	0 SF
First Floor Plan	1-A	9'5"	46'3"	436 SF	0 SF	436 SF
First Floor Plan	1-B	133'3"	50'2"	6,685 SF	0 SF	6,685 SF
First Floor Plan	1-C	19'8"	65'2"	1,282 SF	0 SF	1,282 SF
First Floor Plan	1-D	27'0"	23'6"	635 SF	0 SF	635 SF
First Floor Plan	1-E	6"	14'9"	87 SF	0 SF	87 SF
WAREHOUSE TOTAL				9,044 SF	0 SF	9,044 SF
Accessory Use-Off-street Parking	1-F	70'4"	65'2"	4,583 SF	4,583 SF	0 SF
Accessory Use-Off-street Parking	1-G	27'0"	41'8"	1,125 SF	1,125 SF	0 SF
LOADING TOTAL				5,708 SF	5,708 SF	0 SF
FIRST FLOOR TOTAL				14,752 SF	5,708 SF	9,044 SF
Second Floor Plan	2-A	241'1"	46'2"	11,130 SF	0 SF	11,130 SF
Second Floor Plan	2-B	241'1"	14'0"	3,375 SF	0 SF	3,375 SF
Second Floor Plan	2-C	234'3"	5'0"	1,171 SF	0 SF	1,171 SF
Second Floor Plan	2-D	8'9"	46'2"	404 SF	0 SF	404 SF
SECOND FLOOR TOTAL				16,080 SF	0 SF	16,080 SF
Third Floor Plan	3-A	241'1"	46'2"	11,130 SF	0 SF	11,130 SF
Third Floor Plan	3-B	241'1"	14'0"	3,375 SF	0 SF	3,375 SF
Third Floor Plan	3-C	234'3"	5'0"	1,171 SF	0 SF	1,171 SF
Third Floor Plan	3-D	8'9"	46'2"	404 SF	0 SF	404 SF
THIRD FLOOR TOTAL				16,080 SF	0 SF	16,080 SF
Fourth Floor Plan	4-A	241'1"	46'2"	11,130 SF	0 SF	11,130 SF
Fourth Floor Plan	4-B	241'1"	14'0"	3,375 SF	0 SF	3,375 SF
Fourth Floor Plan	4-C	234'3"	5'0"	1,171 SF	0 SF	1,171 SF
Fourth Floor Plan	4-D	8'9"	46'2"	404 SF	0 SF	404 SF
FOURTH FLOOR TOTAL				16,080 SF	0 SF	16,080 SF
Stair Bulkhead	5-A	20'4"	10'4"	210 SF	210 SF	0 SF
ROOF TOTAL				210 SF	210 SF	0 SF
TOTAL BUILT AREA				107,304 SF	5,708 SF	57,284 SF
GROSS BUILDING AREA (EXCLUDING SUBCELLAR)				85,253 SF	0 SF	85,253 SF
*Allowable Parking and Loading Space Deduction 6,000 SF (Actual Loading Area is 5,708 SF) See Z-002						
Medical Office Building @ Lot 15 & 16 (Community Use)						
LOCATION	AREA	WIDTH	HEIGHT	GROSS AREA	DEDUCTIONS	FAR TOTAL
Medical Office Cellar Floor Plan	MC-1	9'0"	15'0"	135 SF	135 SF	0 SF
MEDICAL OFFICE CELLAR FL TOTAL				135 SF	135 SF	0 SF
Medical Office First Floor Plan	M1-1	40'8"	95'2"	3,870 SF	0 SF	3,870 SF
MEDICAL OFFICE FIRST FL TOTAL				3,870 SF	0 SF	3,870 SF
Medical Office Second Floor Plan	M2-1	40'8"	65'5"	2,660 SF	0 SF	2,660 SF
MEDICAL OFFICE SECOND FL TOTAL				2,660 SF	0 SF	2,660 SF
GROSS AREA TOTAL:				6,665 SF	135 SF	6,530 SF

1454 39th Street Self Storage

Safe N Lock
1454 39TH ST
BOROUGH OF BROOKLYN, KINGS COUNTY, CITY OF NEW YORK

BW
BUTZ•WILBERN LTD
Planning | Architecture
Interiors | Property Visioning
800 W. Broad St. Suite 400
Falls Church, Virginia 22046
703-356-6771 fax: 356-7010



ZONING AREA
CALCULATION
Z-002.01
6 OF 49
19010