

Material Designations

	CONCRETE MASONRY UNITS
	GLASS
	GYPSUM DRYWALL/ CEMENT FILL
	INSULATION (LOOSE OR BATT)
	INSULATION (RIGID)
	METAL (SMALL SCALE)
	PLYWOOD
	STEEL (LARGE SCALE)
	TILE - CERAMIC, ACOUSTIC, VCT
	WOOD, FINISHED
	WOOD, ROUGH

Abbreviations

ACCES	ACCESSORY	INFO	INFORMATION
ACOUS	ACOUSTIC(AL)		
AFF	ABOVE FINISHED FLOOR	MFD	MANUFACTURED
AL	ALUMINUM	MFR	MANUFACTURER
ALT	ALTERNATE	MECH	MECHANICAL
ANOD	ANODIZED	MTL	METAL
APFL	APPLIANCE	MIN	MINIMUM
ARCH	ARCHITECTURAL	MISC	MISCELLANEOUS
		MLNK	MILLWORK
		MTD	MOUNTED
BLDG	BUILDING	NIC	NOT IN CONTRACT
BD	BOARD	NTS	NOT TO SCALE
BLKG	BLOCKING		
BO	BOTTOM OF	OPF HAND	OPPOSITE HAND
CAB	CABINET	PLYWD	PLYWOOD
CPT	CARPET		
CLG	CEILING	RCP	REFLECTED CEILING PLAN
COATG	COATING		
CONC	CONCRETE	RFI	REQUEST FOR INFORMATION
CONSTR	CONSTRUCTION		
COV	COVER	RM	ROOM
CMU	CONCRETE MASONRY UNIT	RO	ROUGH OPENING
DBL	DOUBLE	SF	SQUARE FEET
DEPT	DEPARTMENT	SIM	SIMILAR
DET	DETAIL	SMC	SURFACE MOUNTED CONDUIT
DIA	DIAMETER		
DIFF	DIFFUSER	SS	STAINLESS STEEL
DIM	DIMENSION	STD	STANDARD
DN	DOWN	STL	STEEL
DR	DOOR	SUSP	SUSPENDED
DWSS	DRAWINGS	THK	THICK
		TOP OF	TOP OF
ELEC	ELECTRICAL	TYP	TYPICAL
ENG	ENGINEER		
EQ	EQUAL	UON	UNLESS OTHERWISE NOTED
EQUIP	EQUIPMENT		
ETC	ETCETERA		
EXIST	EXISTING	VIF	VERIFY IN FIELD
EXT	EXTERIOR		
FAB	FABRICATION	W/	WITH
FE	FIRE EXTINGUISHER	WD	WOOD
FEC	FIRE EXTINGUISHER CABINET	W/O	WITHOUT
FIN	FINISH	WT	WEIGHT
FR	FIRE RAT(ING)/ED		
GA	GAUSE		
GC	GENERAL CONTRACTOR		
GL	GLASS		
GYP	GYPSUM		
HD	HEAD		
HDWD	HARDWOOD		
HDWE	HARDWARE		
HM	HOLLOW METAL		
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING		

Special Inspections

SPECIAL INSPECTIONS REQUIRED IN ACCORDANCE WITH CHAPTER 17 AND THE APPLICABLE SECTIONS OF THE NYC CONSTRUCTION CODE ARE LISTED IN THE FOLLOWING TABLES:

THE CONTRACTOR MUST NOTIFY THE ARCHITECT OR ENGINEER FOR SPECIAL INSPECTIONS AT LEAST 72 HOURS BEFORE THE SPECIFIC WORK COMMENCES.

NOTE: REQUIRED INSPECTIONS AND TESTS OF MATERIALS DESIGNATED FOR "SPECIAL INSPECTION" BY THE CONTRACTOR SHALL BE MADE UNDER THE DIRECT SUPERVISION OF A LICENSED ARCHITECT OR ENGINEER RETAINED BY OR ON THE BEHALF OF THE CONTRACTOR WHO SHALL BE ACCEPTABLE TO THE ARCHITECT OR ENGINEER WHO SUPERVISED THE PREPARATION OF THE PLANS.

FIRE RESISTANT PENETRATIONS AND JOINTS BC 1704.27

Graphic Symbols

	SECTION LETTER
	BUILDING SECTION REFERENCE
	DETAIL NO.
	WALL SECTION OR DETAIL REFERENCE
	DETAIL NUMBER
	DETAIL REFERENCE
	ELEVATION NUMBER
	WALL ELEVATION REFERENCE
	NORTH INDICATOR
	REVISION NO.
	DOOR TYPE NO.
	WINDOW NO.
	ROOM/SPACE NO.
	CENTERLINE
	PARTITION TYPE INDICATOR
	LEVEL LINE
	ALIGN
	APPLIANCE AND PLUMBING FIXTURE DESIGNATION
	FLOORING DESIGNATION BASE DESIGNATION
	WALL MATERIAL DESIGNATION
	HIDDEN LINES OR REMOVALS
	EXISTING WORK TO REMAIN
	EXISTING WORK TO BE REMOVED
	NEW INFILL
	NEW PARTITIONS
	EXISTING DOOR & FRAME TO REMAIN
	NEW DOOR & FRAME W/ DOOR NUMBER
	EXISTING DOOR & FRAME TO BE REMOVED
	EXISTING SUSPENDED CEILING TO BE REMOVED
	EXIT SIGN
	EXIT SIGN W/ DIRECTIONAL ARROWS
	ELECTRICAL OUTLET DUPLEX
	ELECTRICAL OUTLET QUADRUPLEX
	DATA OUTLET
	JUNCTION BOX
	SWITCH
	3-WAY LIGHT SWITCH, DIMMER
	3-WAY LIGHT SWITCH, EMERGENCY NIGHT LIGHT
	3-WAY LIGHT SWITCH, DIMMER
	THERMOSTAT
	OCCUPANT SENSOR
	CLOCK
	EMERGENCY TELEPHONE
	DRINKING FOUNTAIN
	FLOOR OUTLET
	A/V SPEAKER, CEILING MOUNTED

General Notes

THE FOLLOWING NOTES SHALL APPLY THROUGHOUT. EXCEPTIONS ARE SPECIFICALLY NOTED ON EACH DRAWING.

- ALL WORK OF THIS CONTRACT SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE NEW YORK CITY BUILDING CODE AND REGULATIONS OF OTHER AGENCIES HAVING JURISDICTION ON THE WORK OF THIS CONTRACT.
- DO NOT SCALE DRAWINGS; DIMENSIONS SHOWN GOVERN. LARGER SCALE DRAWINGS SHALL GOVERN OVER SMALLER SCALE. USE DIMENSIONS ONLY. ALL DIMENSIONS AND CONDITIONS SHOWN AND ASSUMED ON THE DRAWINGS MUST BE VERIFIED AT THE SITE BY THE CONTRACTOR BEFORE ORDERING ANY MATERIAL OR DOING ANY WORK. ANY DISCREPANCIES IN THE DRAWINGS AND SPECIFICATIONS SHALL BE REPORTED TO THE ARCHITECT. NO CHANGE IN DRAWINGS OR SPECIFICATIONS IS PERMISSIBLE WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT/ENGINEER. NO WORK SHALL PROCEED UNTIL SUCH DISCREPANCY HAS BEEN RECTIFIED.
- ALL WORK ON THESE DRAWINGS SHALL BE CONSIDERED NEW WORK WHETHER STATED OR NOT EXCEPT WHERE SPECIFICALLY NOTED AS "EXISTING TO REMAIN".
- COORDINATION OF ALL WORK UNDER THIS CONTRACT SHALL BE MAINTAINED TO ENSURE THE QUALITY AND TIMELY COMPLETION OF THE WORK/PROJECT.
- THE CONTRACTOR SHALL DISCONNECT AND/OR REMOVE ANY EXISTING PLUMBING, ELECTRICAL FIXTURES, WIRE CONDUITS, OR OTHER WORK WHICH MIGHT INTERFERE WITH THE WORK OF THIS CONTRACT. AFTER NEW WORK IS COMPLETED, THE DISCONNECTED OR REMOVED ITEMS SHALL BE REINSTALLED BY THE CONTRACTOR AT THE SAME LOCATION OR AT NEW LOCATION IF INDICATED ON DRAWINGS. CONTRACTOR TO FURNISH ALL NECESSARY NEW MATERIALS/HARDWARE FOR COMPLETION OF WORK.
- THE CONTRACTOR SHALL PATCH, REPAIR OR REPLACE ALL DAMAGED OR EXPOSED SURFACES DUE TO CONTRACT WORK. ALL NEWLY INSTALLED PATCHED WORK AND ALL AFFECTED AREAS SHALL BE PAINTED OR FINISHED AS INDICATED OR TO MATCH EXISTING. ALL WORK SHALL BE PERFORMED TO COVER THE ENTIRE HORIZONTAL OR VERTICAL SURFACE TO THE CLOSEST CORNER IN ALL FOUR DIRECTIONS TO MATCH EXISTING CONDITIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, DISTORTIONS AND INCORRECT ALIGNMENTS ACCORDING TO ALL APPLICABLE CODES AND STANDARDS OF GOOD PRACTICE.
- THE CONTRACTOR SHALL INCLUDE ALL PREPARATORY AND ASSOCIATED SUPPLEMENTARY WORK TO PROVIDE A COMPLETE AND FINISHED INSTALLATION.
- WHERE MANUFACTURER'S NAMES AND PRODUCT NUMBERS ARE INDICATED ON DRAWINGS, IT SHALL BE CONSTRUED TO MEAN THE ESTABLISHMENT OF QUALITY AND PERFORMANCE STANDARDS OF SUCH ITEMS. ALL OTHER PRODUCTS MUST BE SUBMITTED TO THE ARCHITECT FOR APPROVAL BEFORE THEY SHALL BE DEEMED EQUAL.
- FIRESTOPPING SHALL BE INSTALLED AT ALL NEW & EXISTING PENETRATIONS OF FIRE RATED CONSTRUCTION AS PER SPECIFICATIONS.
- SIZE OF MASONRY UNITS AND WOOD MEMBERS ON PLANS, BUILDING ELEVATIONS AND SECTIONS ARE SHOWN AS NOMINAL SIZE, UNLESS OTHERWISE NOTED.
- DIMENSIONS ON PLANS ARE INDICATED FROM SURFACE TO SURFACE BETWEEN WALLS, PARTITIONS AND OTHER ITEMS EXCLUSIVE OF FINISHES.
- PROVIDE GUARDS, RAILS, BARRICADES, FENCES, NIGHT LIGHTING, ETC., AS REQUIRED BY THE NEW YORK CITY BUILDING CODE, SECTION 1901.5 AND AS REQUIRED TO PROVIDE ADEQUATE PROTECTION.
- WHERE INDICATED OR REQUIRED TO PERFORM THE WORK, PACK, PROTECT AND RELOCATE PANELS, FURNITURE, CABINETS & EQUIP. INDICATED FOR REUSE BY THE COLLEGE TO DESIGNATED LOCATIONS WITHIN THE BUILDING AS DIRECTED.
- THE CONTRACTOR SHALL, UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, SECURE AND PAY FOR REQUIRED PERMITS(S), FEES, LICENSE, INSURANCE AND INSPECTIONS NECESSARY FOR THE PROPER EXECUTION OF THE WORK.
- THERE WILL BE NO CHANGE IN USE, EGRESS OR OCCUPANCY BECAUSE OF THE WORK OF THIS CONTRACT.
- ADDITIONAL NOTES WHICH ARE APPLICABLE TO THIS PROJECT MAY BE FOUND THROUGHOUT THE CONTRACT DOCUMENTS.
- ALL WORK LISTED ON THE CONSTRUCTION NOTES AND SHOWN OR IMPLIED ON ALL DRAWINGS SHALL BE SUPPLIED AND INSTALLED BY THE TRADE CONTRACTOR UNLESS OTHERWISE NOTED ON DRAWINGS AND/OR IN SPECIFICATIONS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON DRAWINGS AND SHALL NOTIFY DAVID SMOTRICH & PARTNERS LLP (DSP) OF ANY DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS BEFORE PROCEEDING WITH THE WORK.
- CONTRACTOR MUST COMPLY WITH THE RULES AND REGULATIONS OF ALL AGENCIES HAVING JURISDICTION AND SHALL CONFORM TO ALL CONSTRUCTION AND SAFETY CODES, STATUTES AND ORDINANCES. ALL FEES, TAXES, PERMITS, INSURANCE AND APPLICATIONS OF ALL WORK WITH GOVERNMENTAL AGENCIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL COMPLY WITH THE RULES AND REGULATIONS OF THE BUILDING AS TO HOURS OF AVAILABILITY FOR ELEVATORS FOR THE PURPOSES OF DELIVERY AND ALSO AS TO THE MANNER OF HANDLING AND STORAGE & STAGING OF MATERIALS, EQUIPMENT AND DEBRIS TO AVOID CONFLICT AND INTERFERENCE WITH NORMAL BUILDING OPERATIONS. THIS BUILDING HAS NO LOADING DOCK.
- ALL DRAWINGS AND CONSTRUCTION NOTES ARE COMPLEMENTARY AND WHAT IS CALLED FOR BY ANY WILL BE BINDING AS IF CALLED FOR BY ALL.
- THE CONTRACTOR SHALL MAINTAIN A CURRENT AND COMPLETE SET OF CONSTRUCTION DOCUMENTS AND APPROVED SUBMITTALS ON THE CONSTRUCTION SITE DURING ALL PHASES OF CONSTRUCTION.
- THE CONTRACTOR SHALL SUPPLY, PRIOR TO COMMENCING WORK, A LIST OF ALL SUB-CONTRACTORS TO THE OWNER, WITH THE NAME, ADDRESS AND PHONE NUMBER OF THE PRINCIPAL CONTACT OF EACH SUB-CONTRACTOR. IN ADDITION, HE WILL FILE WITH THE OWNER THE EMERGENCY NUMBERS AVAILABLE FOR 24-HR. CONTACT. THE OWNER & ARCHITECT TO BE NOTIFIED IF THERE IS A CHANGE IN SUB-CONTRACTOR DURING THE COURSE OF THE PROJECT.
- ALL WORK SHALL BE PERFORMED BY SKILLED AND QUALIFIED WORKMEN IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADES INVOLVED AND IN COMPLIANCE WITH BUILDING REGULATIONS AND/OR GOVERNMENTAL LAWS, STATUTES OR ORDINANCES.
- ALL MATERIALS SHALL BE NEW, UNUSED AND OF THE HIGHEST QUALITY, UNLESS OTHERWISE NOTED. MANUFACTURED MATERIALS AND EQUIPMENT SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.
- CONTRACTOR TO BE AWARE THAT OTHER CONTRACTORS MAY BE WORKING IN THE SAME SPACE AT THE SAME TIME WORKING ON OTHER PROJECTS. LABOR HARMONY AND COOPERATION IS REQUIRED.

Drawing List

- ARCHITECTURAL**
- T-000.00 COVER
 - 6-001.00 GENERAL NOTES, LEGEND, SYMBOLS, ABBREVIATIONS & DRAWING LIST
 - DM-100.00 CELLAR & 1ST FLOOR DEMOLITION PLANS
 - A-100.00 1ST FL CONSTRUCTION PLAN & ELEVATIONS
 - A-100.00 GLASS RAILING DETAILS & HARDWARE SCHEDULE
 - A-101.00 SECURITY DESK MILLWORK
 - A-102.00 FIRE STOPPING DETAILS
 - A-800.00 FURNITURE & POWER PLAN, FINISH PLAN AND FINISH LEGEND
- ELECTRICAL**
- E-001.00 ELECTRICAL SYMBOL LIST, ABBREVIATIONS, AND DRAWING LIST
 - E-002.00 ELECTRICAL SPECIFICATION
 - E-100.00 CELLAR & FIRST FLOOR PLAN
 - E-300.00 ELECTRICAL DETAILS AND PANEL SCHEDULES
- FIRE ALARM**
- FA-001.00 FIRE ALARM NAGLER HALL SYMBOL LIST, GENERAL NOTES AND ABBREVIATIONS
 - FA-002.00 FIRE ALARM NAGLER HALL RISER DIAGRAM, RISER NOTES AND MATRIX
 - FA-003.00 NAGLER CELLAR & FIRST FLOOR FIRE ALARM PLAN

Building Dept. Notes

THE FOLLOWING NOTES SHALL APPLY THROUGHOUT. (GHITES, PLACES OF ASSEMBLY, STANDPIPE SYSTEMS, ELEVATORS, FIRE PROTECTION, FLAN CONSTRUCTION FENCES, EMERGENCY GENERATOR SIDEWALK SHEDS)

- WORK SHALL BE EXECUTED IN FULL COMPLIANCE WITH THE APPLICABLE PROVISIONS OF ALL LAWS, BY-LAWS, STATUTES, ORDINANCES, CODES, RULES, REGULATIONS AND LAWFUL ORDERS OF PUBLIC AUTHORITIES BEARING ON THE PERFORMANCE AND EXECUTION OF THE WORK.
- THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ARCHITECT OF ANY PORTIONS OF THE WORK, IN THE CONTRACT DOCUMENTS THAT ARE AT VARIANCE WITH THE ABOVE.
- ALL MATERIALS, ASSEMBLIES, FORMS, METHODS OF CONSTRUCTION AND SERVICE EQUIPMENT SHALL MEET THE FOLLOWING REQUIREMENTS:
 - THEY SHALL HAVE BEEN ACCEPTABLE PRIOR TO THE EFFECTIVE DATE OF THE CODE BY THE BOARD OF STANDARDS AND APPEALS.
 - THEY SHALL HAVE BEEN ACCEPTED FOR THE USE UNDER THE PRESCRIBED TEST METHODS BY THE COMMISSIONER (OR)
 - APPROVED BY THE OFFICE OF TECHNICAL CERTIFICATION AND RESEARCH (OTCR)
- THESE DRAWINGS HAVE BEEN PREPARED BY OR AT THE DIRECTION OF THE UNDERSIGNED AND TO THE BEST OF THE UNDERSIGNED'S KNOWLEDGE, INFORMATION AND BELIEF MEET THE REQUIREMENTS OF THE BUILDING CODE.
- ALL WORK SHALL COMPLY WITH ANSI (I.T.I) AND LOCAL LAW 50.
- ALL NEW WORK SHALL COMPLY WITH NEW YORK STATE ENERGY CODE.
- ALL NEW INTERIOR FINISHES SHALL BE CONSTRUCTED OF MATERIALS MEETING SECTION 27-524 FOR FLAME SPREAD RATINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR FILING APPLICATION AND OBTAINING PERMITS FOR ANY CONSTRUCTION EQUIPMENT OR PUBLIC PROTECTIVES REQUIRED TO ENSURE SAFETY OF OPERATION AND THE PUBLIC AS PER NYC CONSTRUCTION CODE, CHAPTER 33, SECTION BC3307. THE CONTRACTOR IS ALSO RESPONSIBLE FOR OBTAINING CONSTRUCTION PERMITS.
- EMERGENCY POWER, IF REQUIRED, UNDER THIS CONTRACT SHALL BE INSTALLED AS PER SECTION 27-346.04
- FOLLOW CHAPTER 33 OF THE 2008 NYC CONSTRUCTION CODE(NYCCC) PROTECTION OF THE PUBLIC AND ADJACENT PROPERTIES. REFERENCES IN THE SPECIFICATIONS AND THE DRAWINGS TO THE 1968 BUILDING CODE PARAGRAPHS REGARDING PROTECTION SHALL BE CONSIDERED TO BE THAT OF CHAPTER 33 OF THE NYCCC.
- BIDDER, UPON REQUEST, SHALL SUBMIT COPIES OF CURRENT LICENSES AND CERTIFICATIONS APPLICABLE TO THE WORK, INCLUDING, BUT NOT LIMITED TO, LICENSES ISSUED BY THE COMMISSIONER OF BUILDINGS OF THE CITY OF NEW YORK. PROOF OF THE FOLLOWING CERTIFICATES WILL ALSO BE REQUESTED: 10 HOUR OSHA OUTREACH TRAINING PROGRAM; ASBESTOS AWARENESS TRAINING; FDNY CERTIFICATE OF FITNESS.

Building Code Analysis

CODE REFERENCE- 1968 NYC BUILDING CODE
 USE/OCCUPANCY GROUP- R-2
 NO CHANGE IN USE OR OCCUPANCY

rev. no. date revisions

WEST COURTYARD WEST 28TH STREET EAST COURTYARD

80TH AVENUE WEST 27TH STREET WEST 26TH STREET SEVENTH AVENUE

Private Lots

RENOVATION SPACE

EXIT TO STREET

LOCATION PLAN NOT TO SCALE

BLOCK: T16 LOT: 55

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 983 Marcus Ave. Suite 109
 Lake Success, NY 11042 / (516) 328-1194

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 116 West 32nd Street
 New York, NY 10001 / 212-643-9055

Fashion Institute of Technology
 340 8TH AVENUE
 NEW YORK, NY 10001

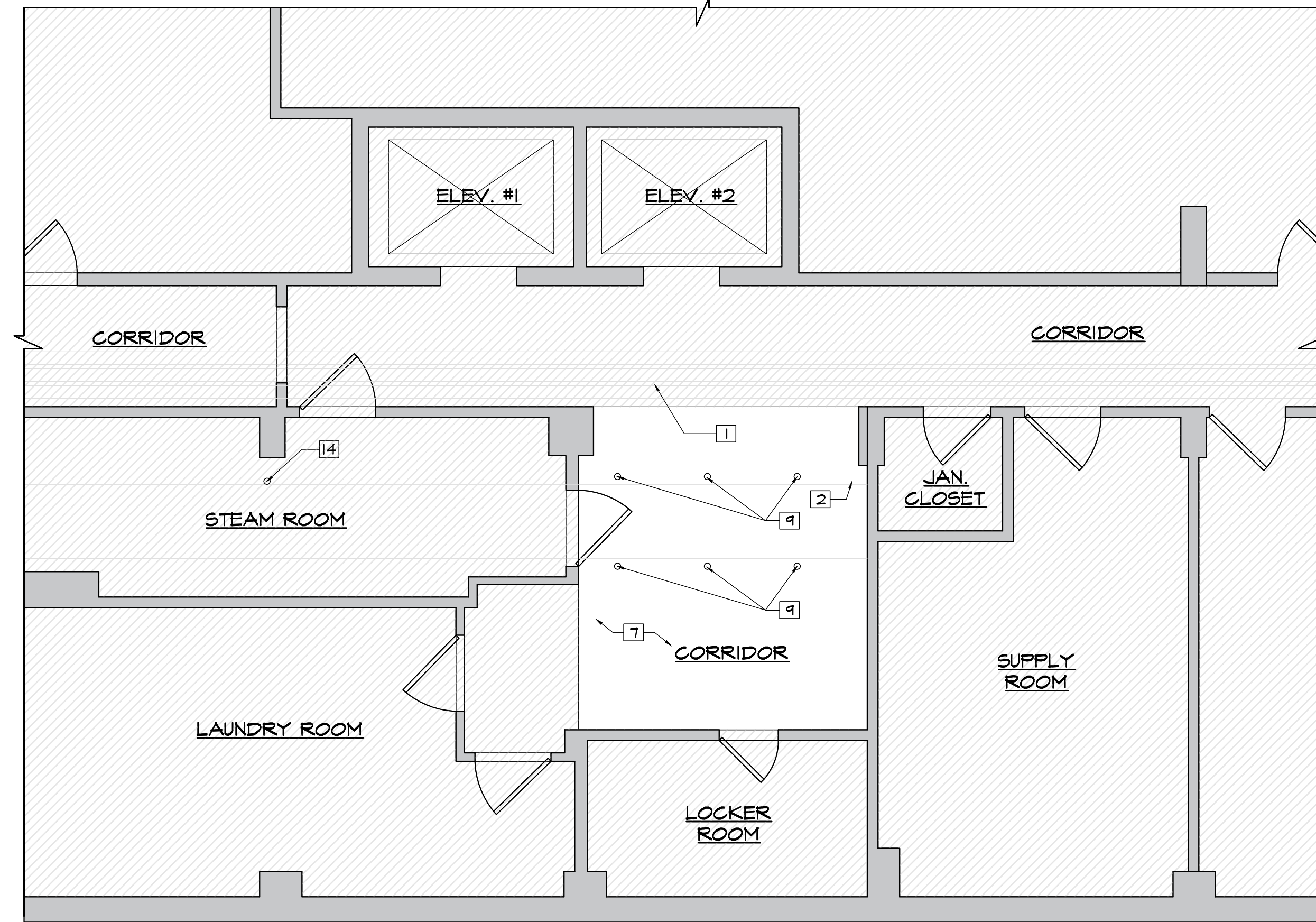
David Smotrich & Partners LLP
 Architects/Planners
 443 Park Avenue South New York, NY 10016
 212 889 4045 Fax 212 889 3672

PROJECT:
 NAGLER RESIDENCE HALL
 TURNSTILE INSTALLATION
 220 WEST 27TH STREET,
 NEW YORK, NY 10001

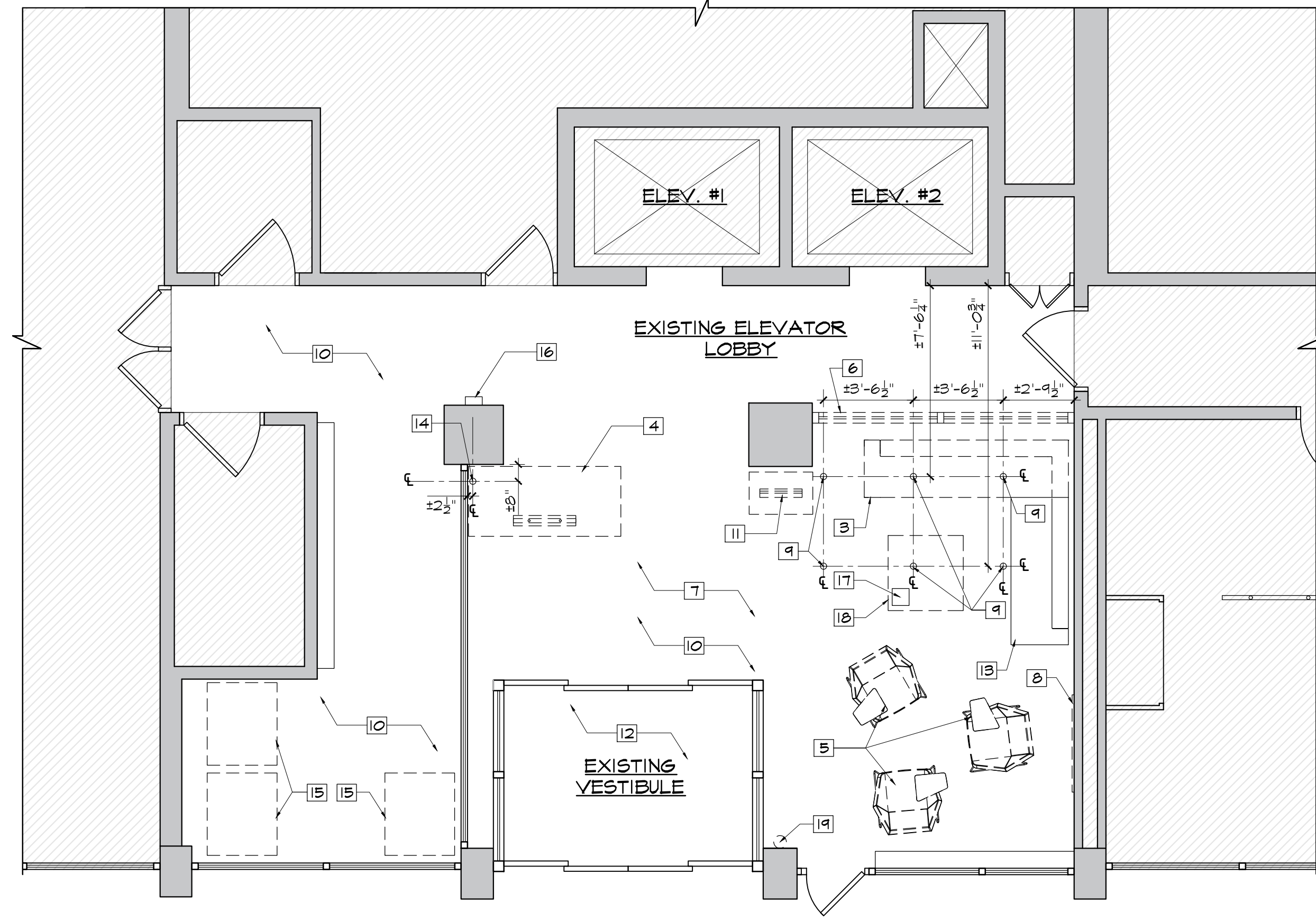
DRAWING TITLE:
 GENERAL NOTES, LEGEND,
 SYMBOLS, ABBREVIATIONS
 & DRAWING LIST

DEPARTMENT OF BUILDING JOB #

SEAL & SIGNATURE: DATE: 03.02.2022
 PROJECT No: 13284.155B
 DRAWING BY: TM
 CHK BY: CK
 DWG No:
G-001.00
 SCALE: AS NOTED 2 of 8



1 CELLAR DEMOLITION RCP PLAN
SCALE: 1/4" = 1'-0"

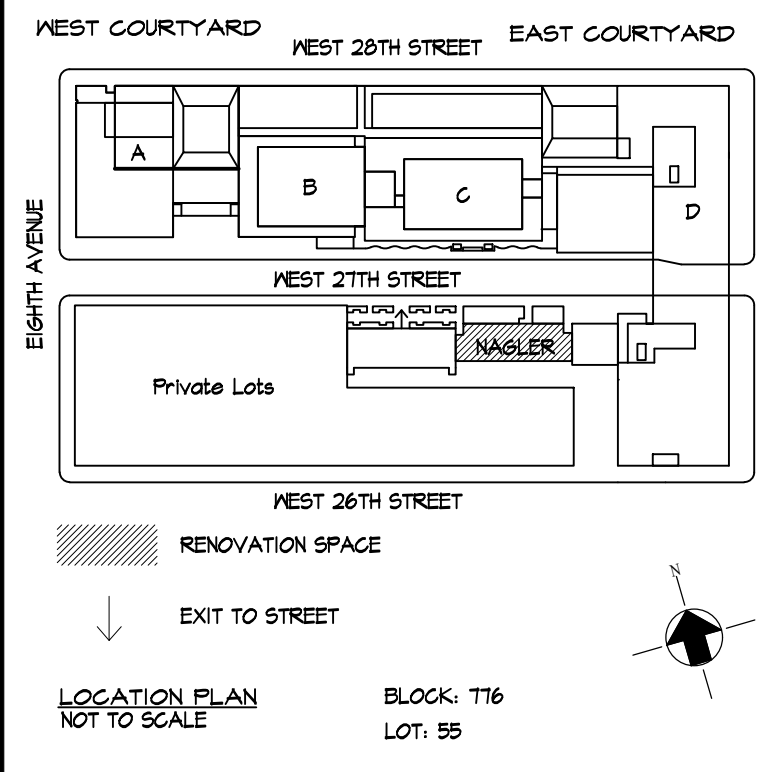


2 1ST FLOOR DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

DEMOLITION NOTES

- 1 EXISTING PIPE SHALL REMAIN, GC TO PROVIDE PROTECTION DURING DEMOLITION AND CONSTRUCTION.
- 2 EXISTING DUCT SHALL REMAIN, GC TO PROVIDE PROTECTION DURING DEMOLITION AND CONSTRUCTION.
- 3 UNBOLT LONG SIDE OF SOFA AND TURN OVER TO FIT.
- 4 EXISTING SECURITY DESK SHALL BE REMOVED & DISPOSED OF.
- 5 EXISTING CHAIRS SHALL BE RELOCATED & REUSED.
- 6 EXISTING GLASS & GWB PARTITION WALL TO BE REMOVED.
- 7 CONTRACTOR TO PROVIDE PROTECTION TO EXISTING FLOORINGS, WALLS AND CEILINGS AS REQUIRED DURING DEMOLITION AND CONSTRUCTION.
- 8 REMOVE EXISTING SUBWAY MAP.
- 9 CORE DRILL EXISTING SLAB FOR NEW WIRING. COORDINATE WITH FIT'S TURNSTILE VENDOR & GUNNEBO MANUFACTURER.
- 10 REMOVE EXISTING VCT AND BASE.
- 11 EXISTING COMPUTER STATION TO BE REMOVED AND TURNED OVER TO FIT.
- 12 REMOVE EXISTING WALK-OFF RUG & BASE.
- 13 SHORT SECTION OF SOFA TO BE SAVED & MODIFIED FOR REUSE. SEE A-100.
- 14 CORE DRILL FOR NEW WIRING TO NEW SECURITY DESK.
- 15 VENDING MACHINES SHALL BE REMOVED & REINSTALLED BY FIT'S VENDOR.
- 16 EXISTING KEY DROP BOX TO BE REMOVED.
- 17 EXISTING WOODEN KEY DROP BOX TO BE TURNED OVER TO FIT.
- 18 EXISTING COFFEE TABLE TO BE TURNED OVER TO FIT.
- 19 EXISTING FIRE EXTINGUISHER TO BE REMOVED DURING PAINTING AND REINSTALLED BY CONTRACTOR.

NOTE
1. CONTRACTOR RESPONSIBLE FOR LOCATING THE CORE DRILL LOCATION FOR NEW TURNSTILES. TEMPLATE TO BE PROVIDED BY TURNSTILE VENDOR. LAYOUT TO BE APPROVED BY FIT & ARCHITECT.



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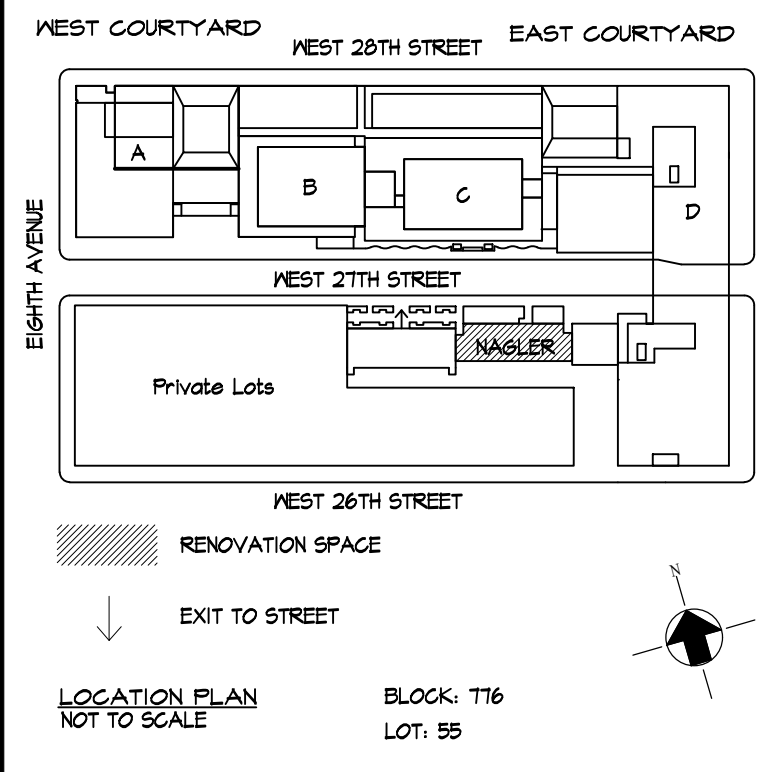
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PROJECT:
NAGLER RESIDENCE HALL
TURNSTILE INSTALLATION
220 WEST 27TH STREET,
NEW YORK, NY 10001

DRAWING TITLE:
NAGLER RESIDENCE HALL
CELLAR & 1ST FLOOR
DEMOLITION PLANS

DEPARTMENT OF BUILDING JOB #

SEAL & SIGNATURE: DATE: 03.02.2022
PROJECT No: 13284.155B
DRAWING BY: TM
CHK BY: CK
DWG No:
DM-100.00
SCALE: 1/4"=1'-0" 3 of 8



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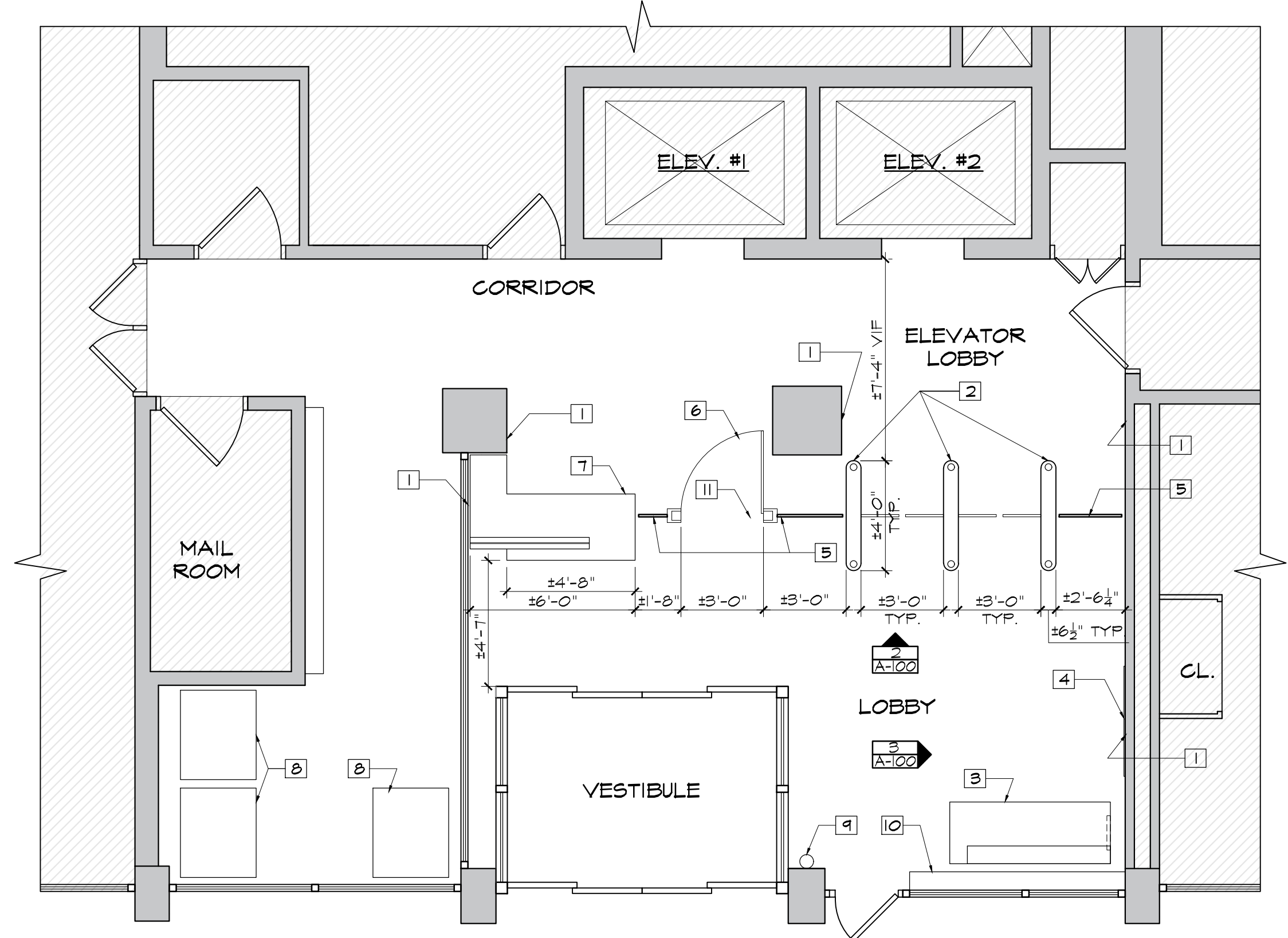
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TURNSTILE INSTALLATION
 220 WEST 27TH STREET,
 NEW YORK, NY 10001

DRAWING TITLE:
NAGLER RESIDENCE HALL
1ST FLOOR CONSTRUCTION PLAN
& ELEVATIONS

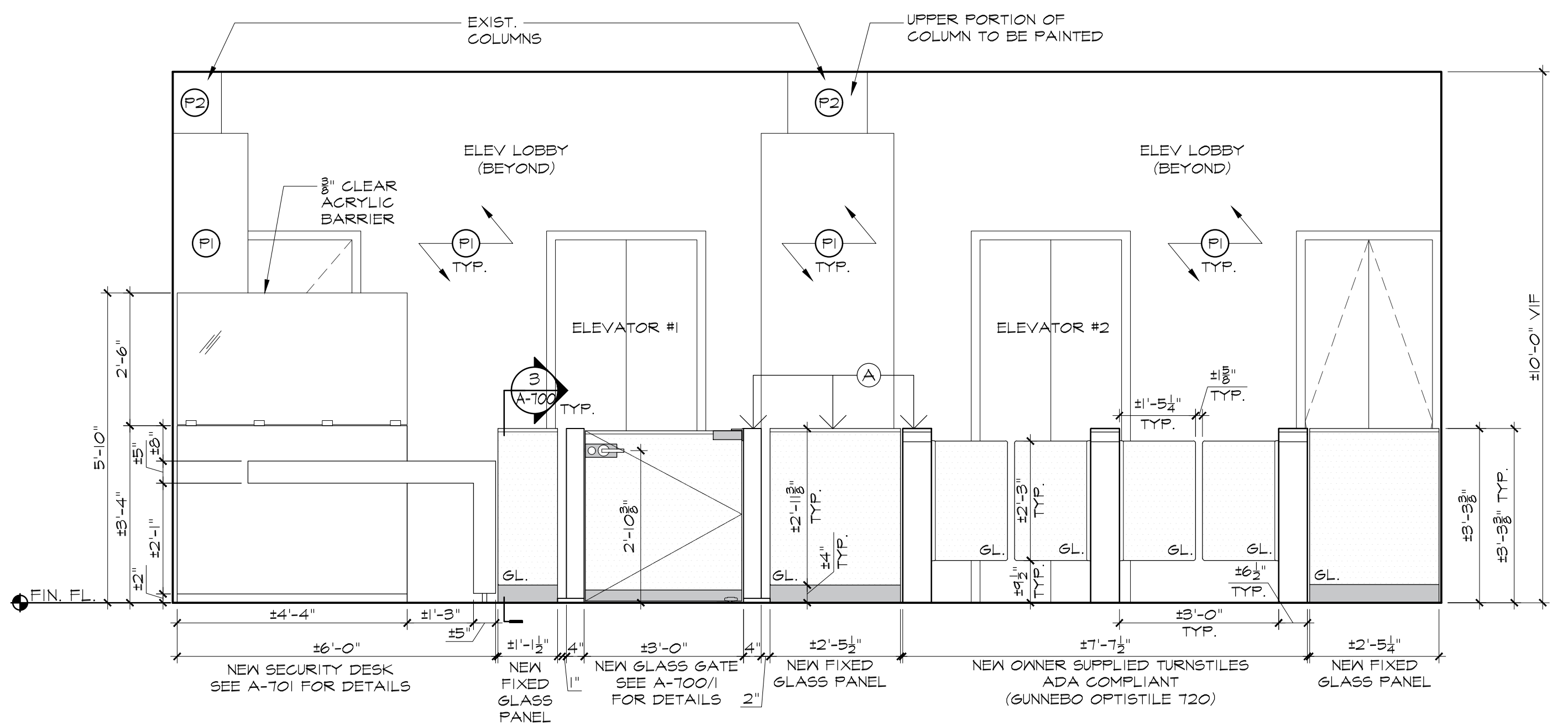
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SEAL & SIGNATURE: _____ DATE: 03.02.2022
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A-100.00
 SCALE AS NOTED 4 of 8

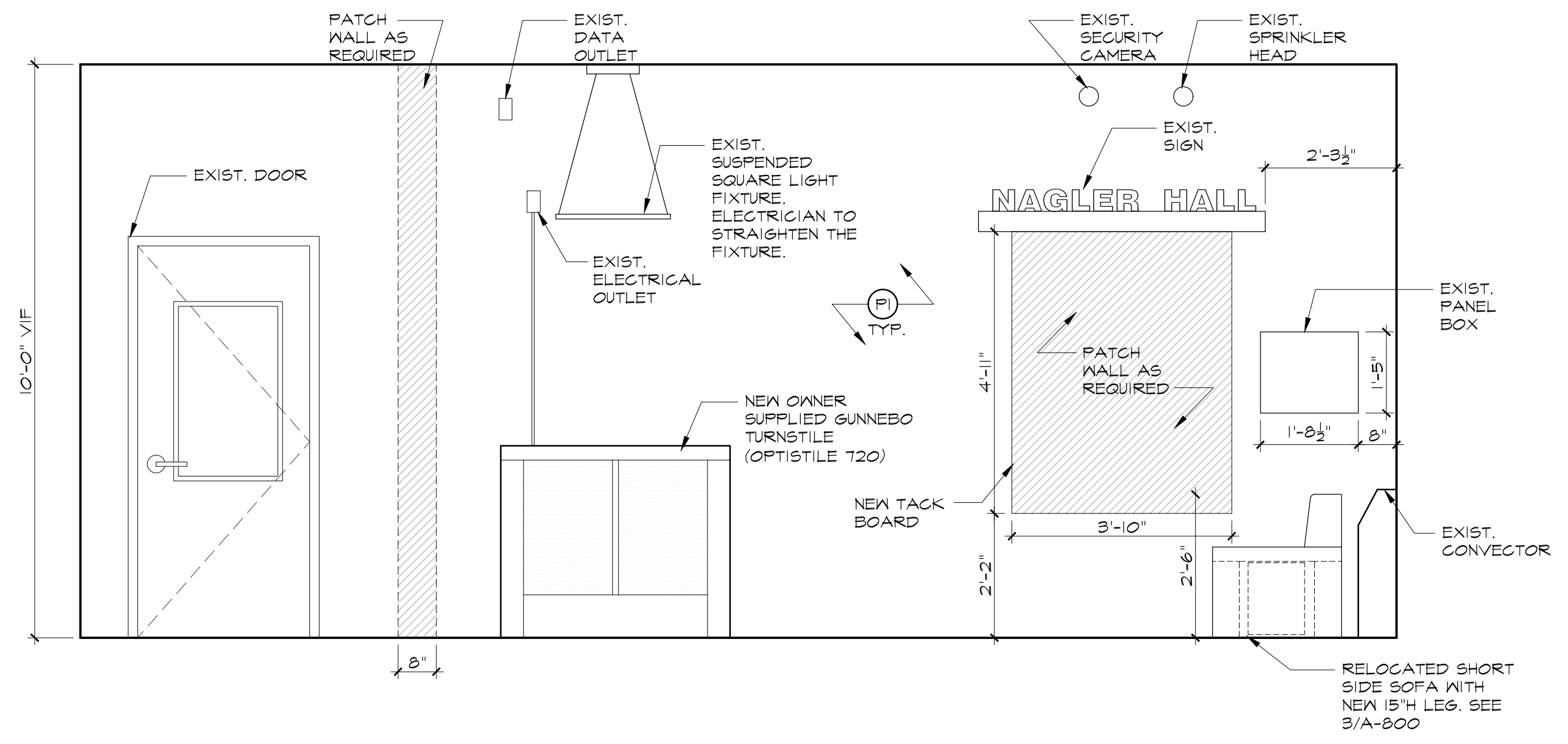


- CONSTRUCTION NOTES
- 1 PATCH WALL AS REQUIRED
 - 2 NEW OWNER SUPPLIED GUNNEBO OPTISTILE T20 TURNSTILE
 - 3 RELOCATED PORTION OF SOFA W/ NEW LEG. SEE 3/A-800
 - 4 NEW TACK BOARD
 - 5 NEW FIXED GLASS PARTITION
 - 6 NEW ADA COMPLIANT GLASS GATE
 - 7 NEW SECURITY DESK W/ 3/8" CLEAR ACRYLIC BARRIER
 - 8 VENDING MACHINES TO BE REINSTALLED BY FITS VENDOR
 - 9 FIRE EXTINGUISHER & SIGN TO BE REINSTALLED BY CONTRACTOR
 - 10 FANCOIL UNIT TO BE SANDED PREPPED & PAINTED
 - 11 CONTRACTOR TO CONFIRM EXIST. FLOOR IS LEVEL TO ALLOW FOR 3/8" UNDERCUT OF GATE

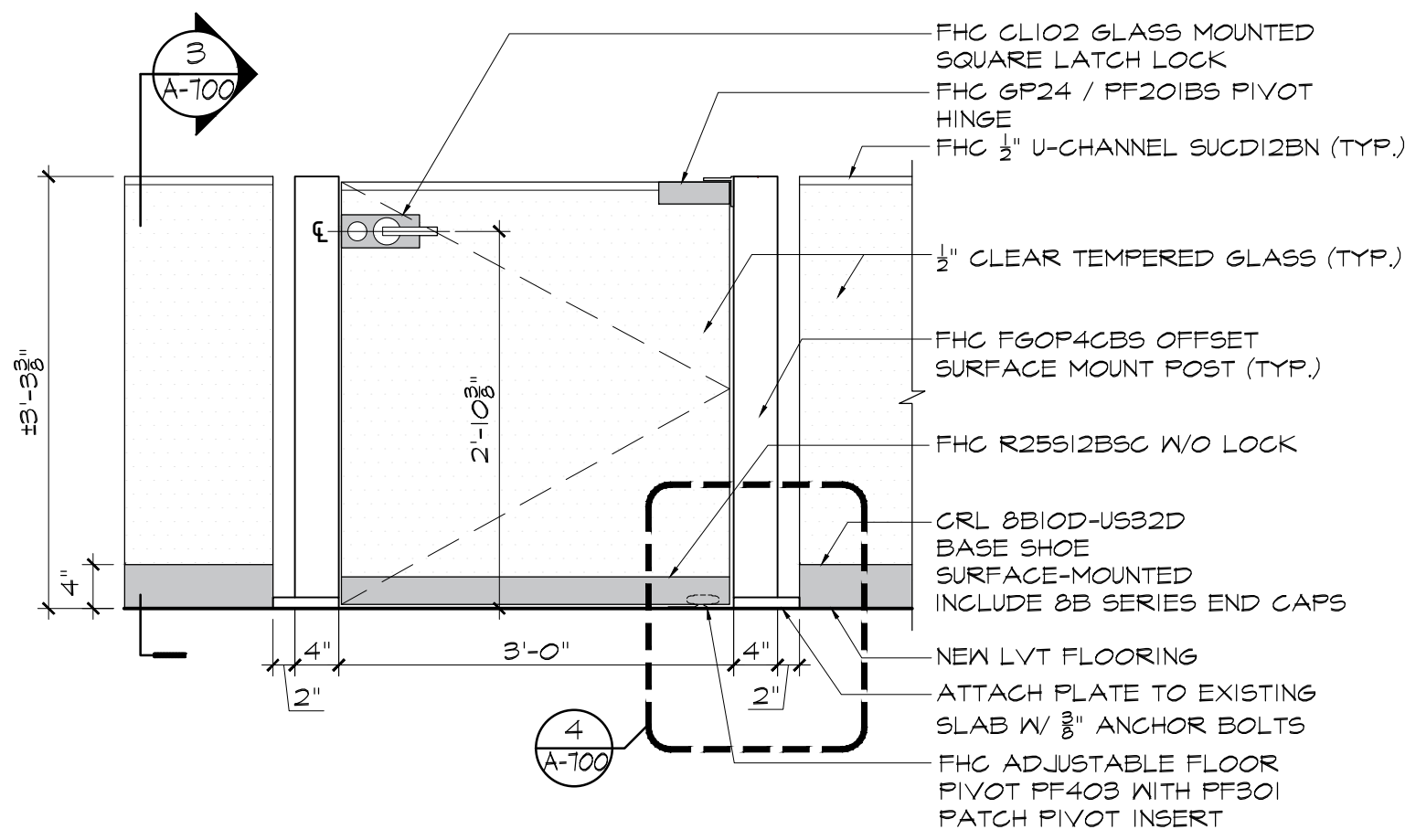
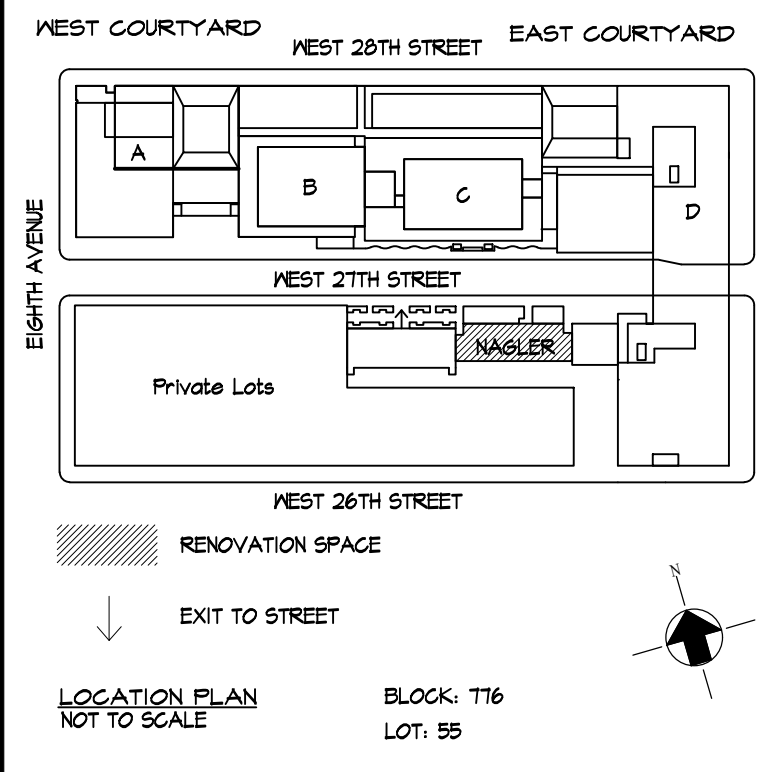
1 A-100 1ST FLOOR CONSTRUCTION PLAN
 SCALE: 1/4" = 1'-0"



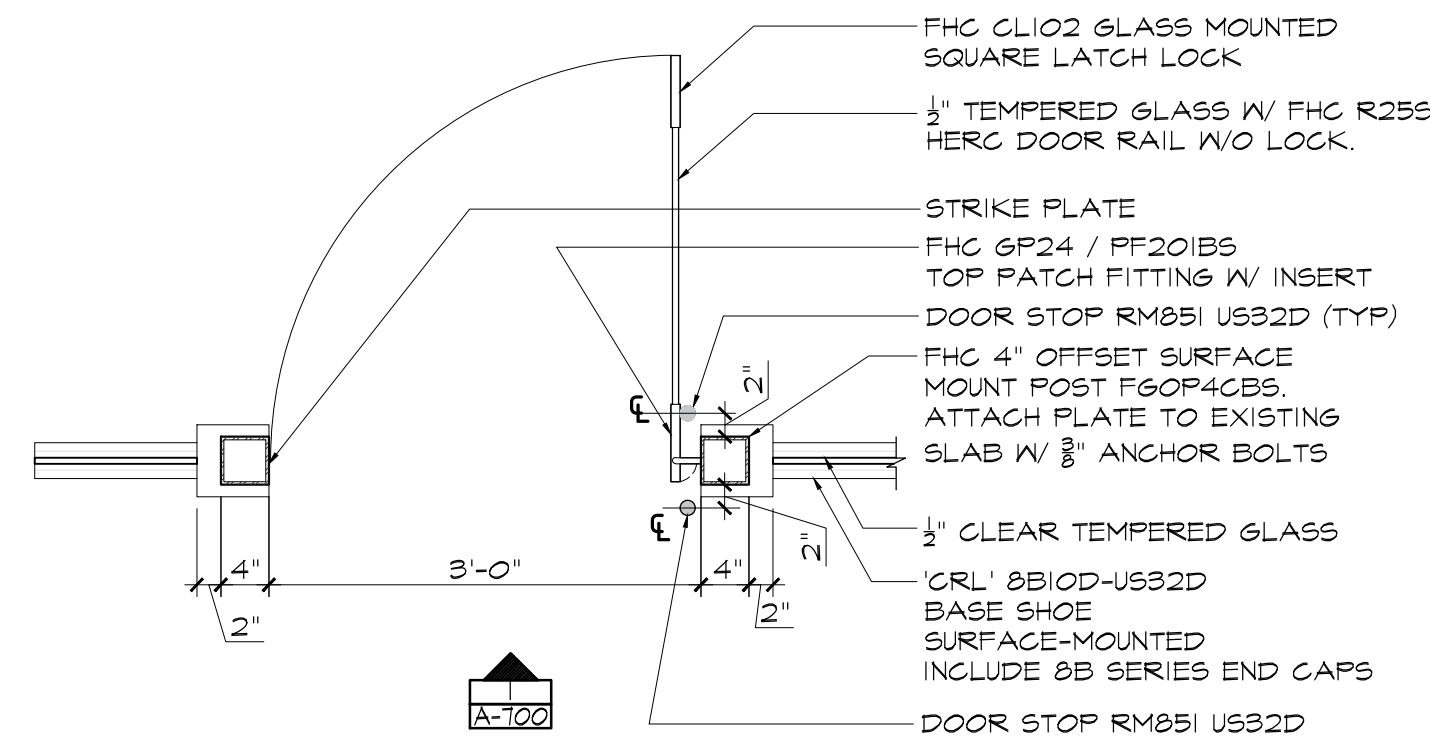
2 A-100 ELEVATOR TURNSTILE LOBBY ELEVATION 1
 SCALE: 1/2" = 1'-0"



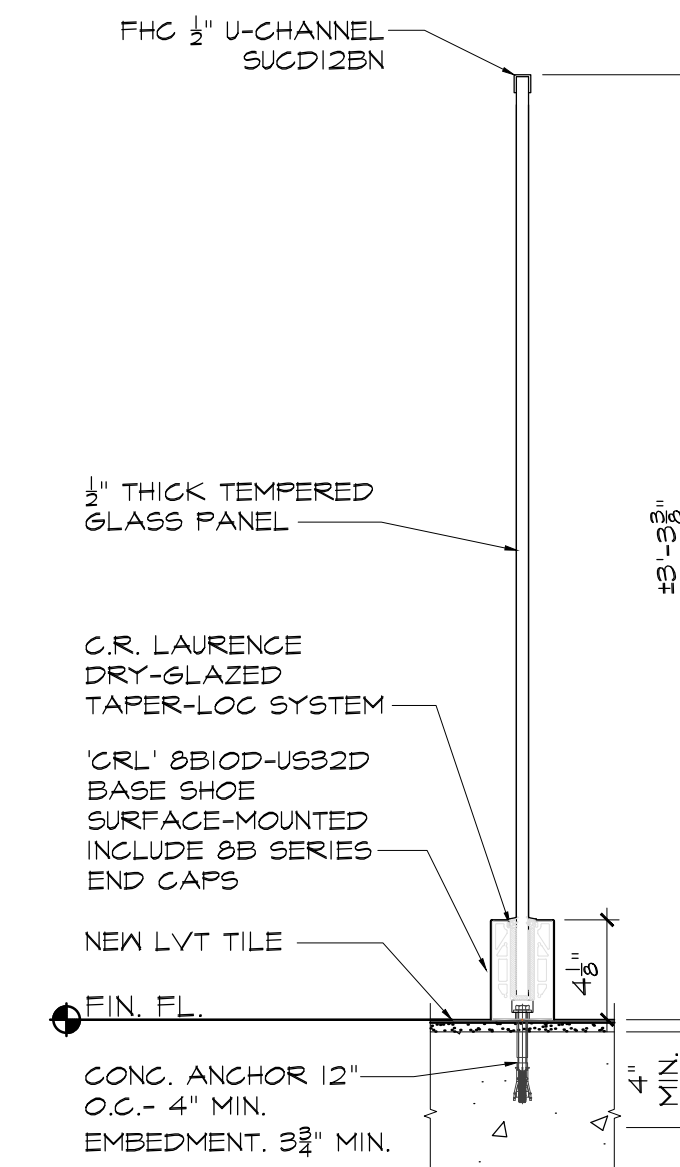
3 A-100 ELEVATOR TURNSTILE LOBBY ELEVATION 2
 SCALE: 1/2" = 1'-0"



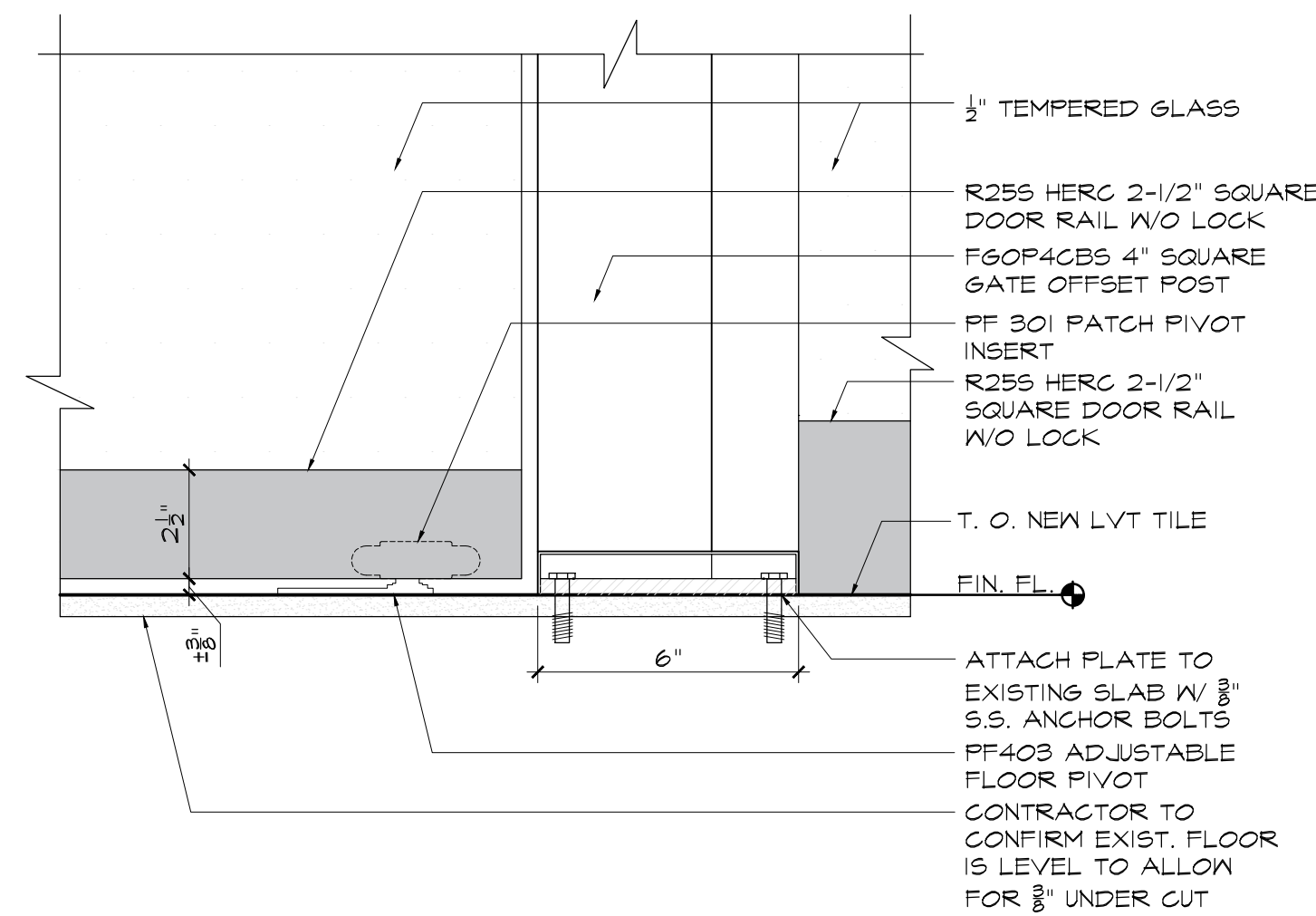
1 ENLARGED GLASS GATE ELEVATION
SCALE: 3/4" = 1'-0"



2 ENLARGED GLASS GATE PLAN
SCALE: 3/4" = 1'-0"



3 FIXED GLASS PANEL SECTION
SCALE: 1-1/2" = 1'-0"



4 GLASS GATE SECTION
SCALE: 3/4" = 1'-0"

HARDWARE SCHEDULE

1/2" TEMPERED DOUBLE GLASS GATE DOOR		
MANUFACTURER	PRODUCT #	DESCRIPTION
FHC	CL102B5	GLASS MOUNTED SQUARE LATCH LOCK LOCKSET CYLINDER TO BE COMPATIBLE WITH 1C-6FIN. COORDINATE WITH FIT LOCKSMITH
FHC	PFL60B5S	FHC CLK SERIES LEVER HANDLER SET
FHC	PF403/PF301	ADJUSTABLE FLOOR PIVOT W/ INSERT
FHC	R25512B5C	2-1/2" LOW PROFILE DOOR RAIL W/O LOCK
FHC	PF201/PF303	TOP PATCH FITTING W/ INSERT
FHC	GP24B5	GATE PIVOT
FHC	SUCD12BN	U CHANNEL FOR 1/2" GLASS
FHC	FGOP4GB5	4" OFFSET SURFACE MOUNT POST
ASSA ABLOY	RM851	ROCKWOOD FLOOR MOUNTED DOOR STOP

1/2" TEMPERED GLASS PANEL		
MANUFACTURER	PRODUCT #	DESCRIPTION
CRL	8B10D	BASE SHOE W/ TAPER-LOG

ACRYLIC BARRIER CLIP		
MANUFACTURER	PRODUCT #	DESCRIPTION
HAFELE	284.01.081	3/8" ACRYLIC BARRIER CLIP

NOTE: COORDINATE THE EXACT LOCATION OF THE DOOR STOPS IN THE FIELD.

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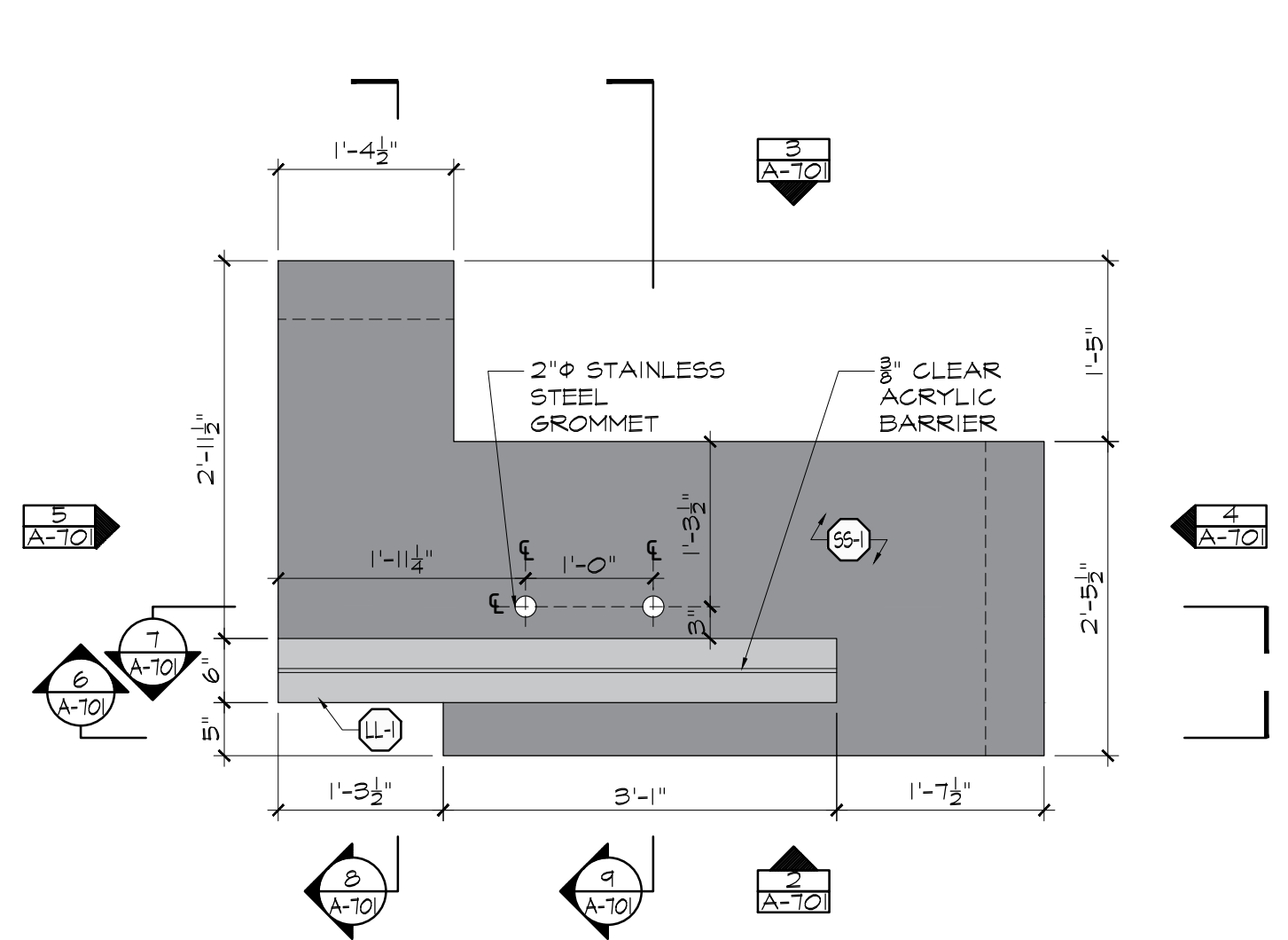
443 Park Avenue South New York, NY 10016
 212 889 4045 Fax 212 889 3672

PROJECT:
 NAGLER RESIDENCE HALL
 TURNSTILE INSTALLATION
 220 WEST 27TH STREET,
 NEW YORK, NY 10001

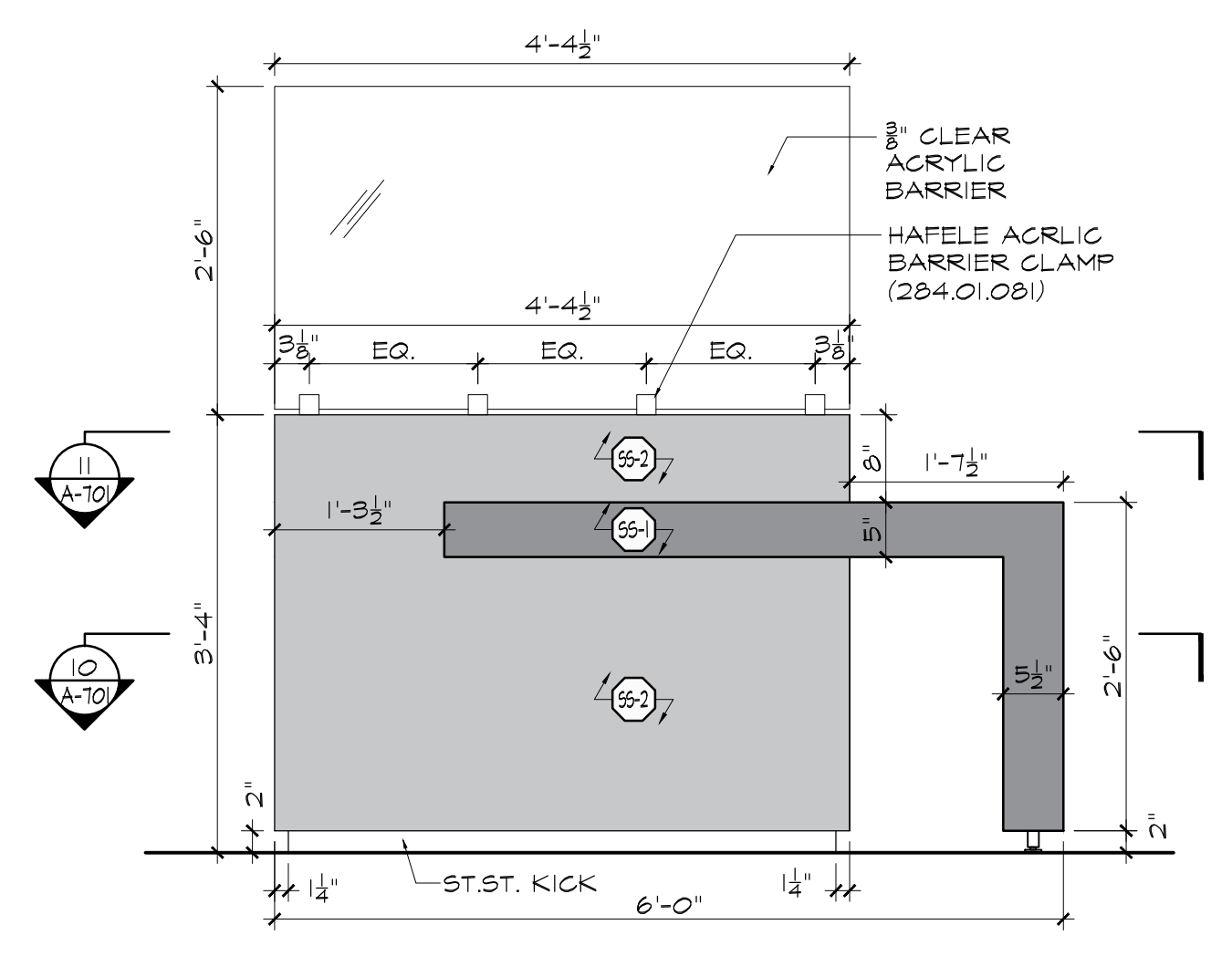
DRAWING TITLE:
 NAGLER RESIDENCE HALL
 GLASS RAILING DETAILS,
 HARDWARE SCHEDULE

DEPARTMENT OF BUILDING JOB #

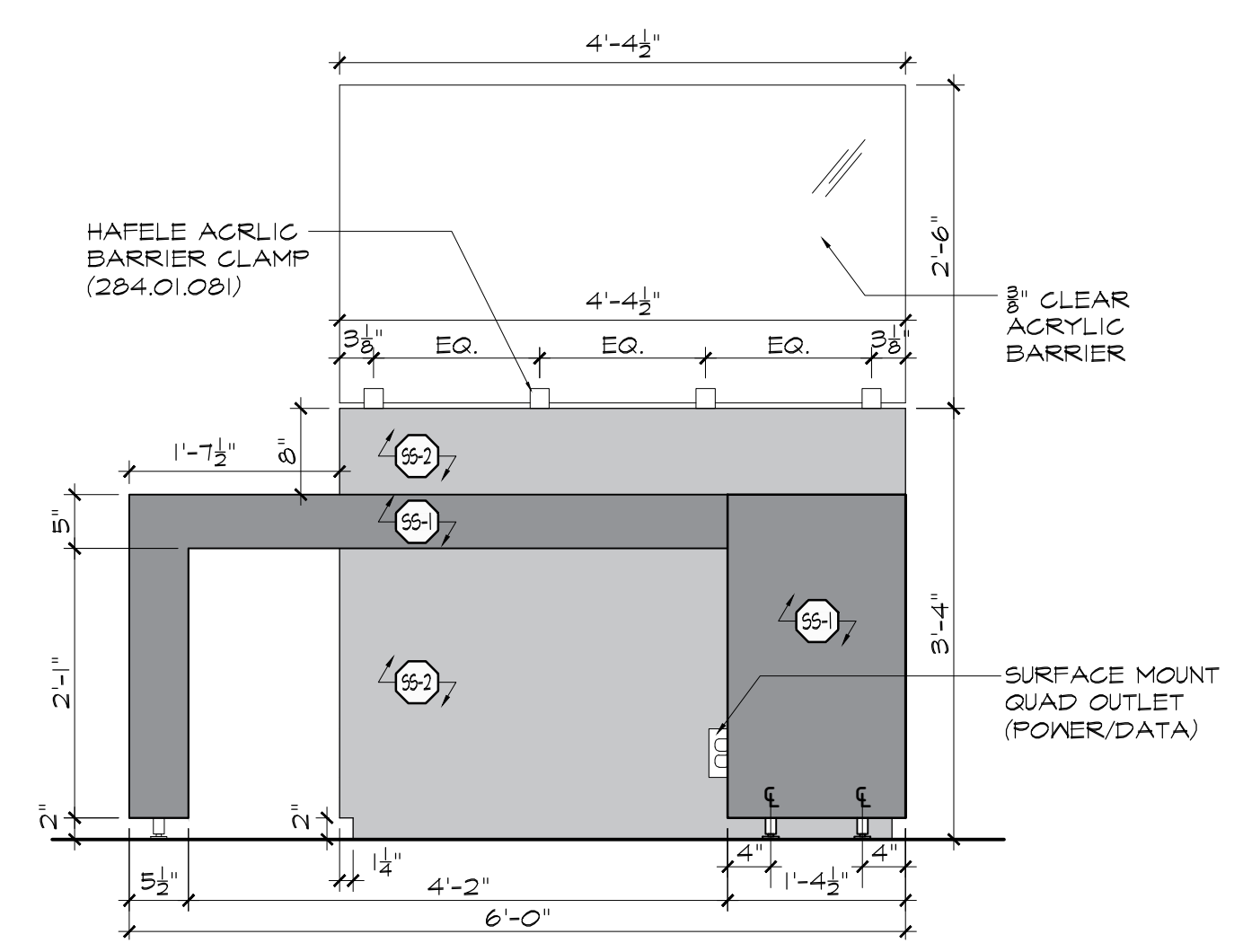
SEAL & SIGNATURE: DATE: 03.02.2022
 PROJECT No: 13284.155B
 DRAWING BY: TM
 CHK BY: CK
 DWG No:
A-700.00
 SCALE: AS NOTED 5 of 8



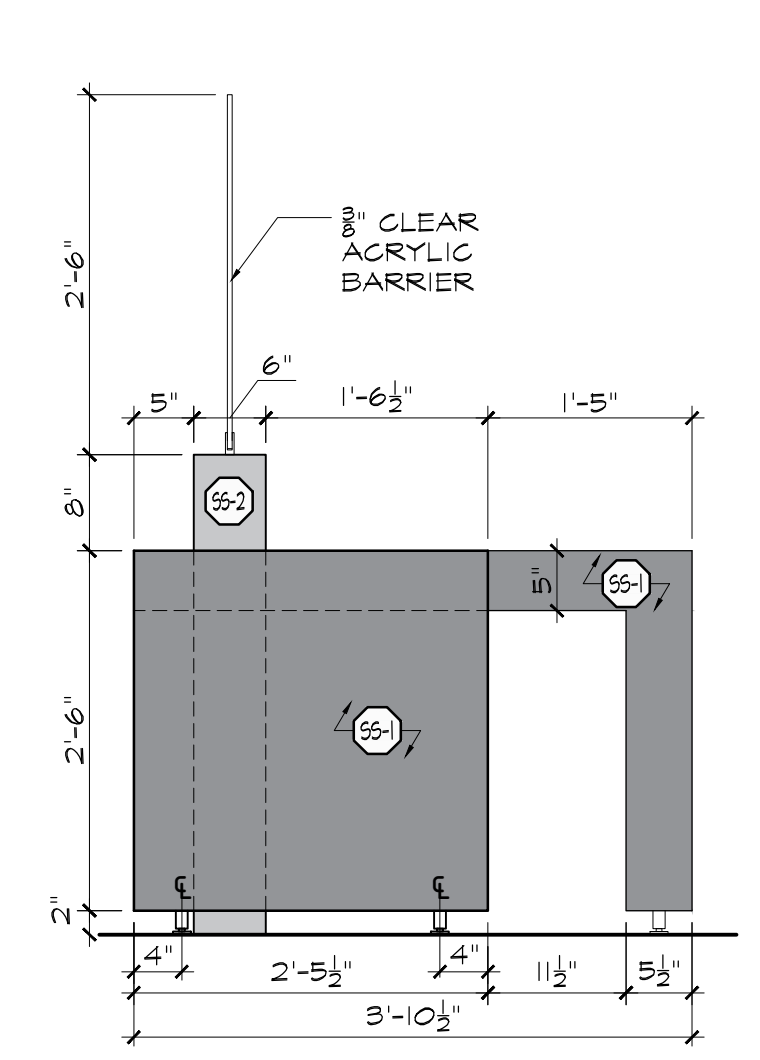
1 SECURITY DESK PLAN
SCALE: 3/4" = 1'-0"



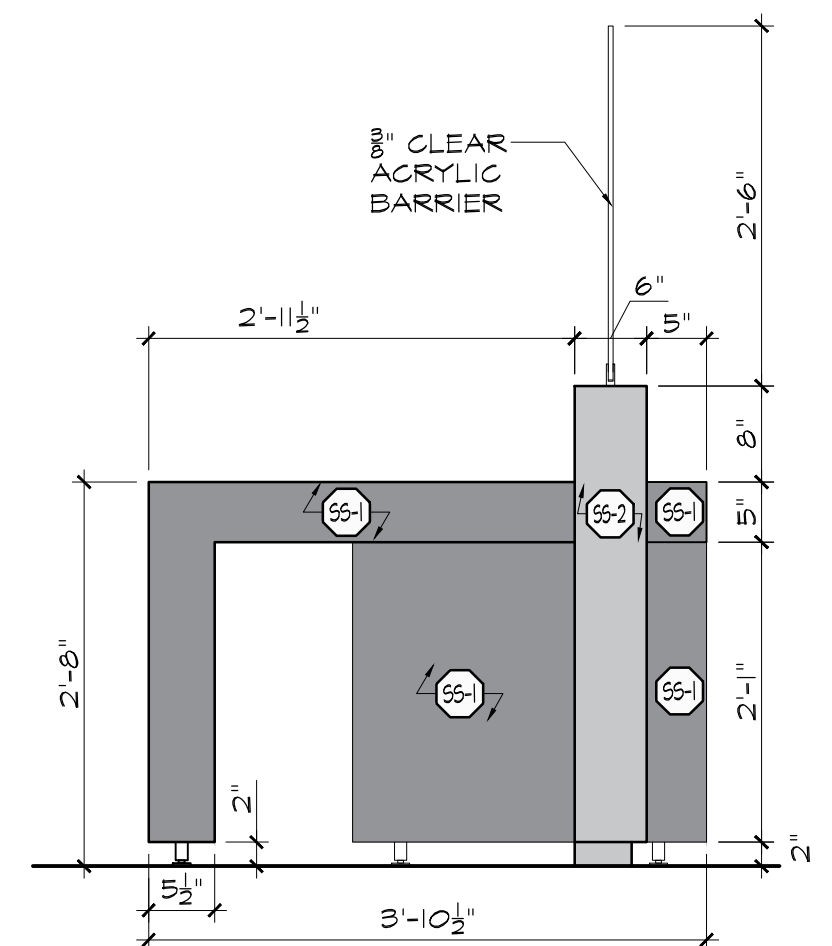
2 SECURITY DESK ELEVATION 1
SCALE: 3/4" = 1'-0"



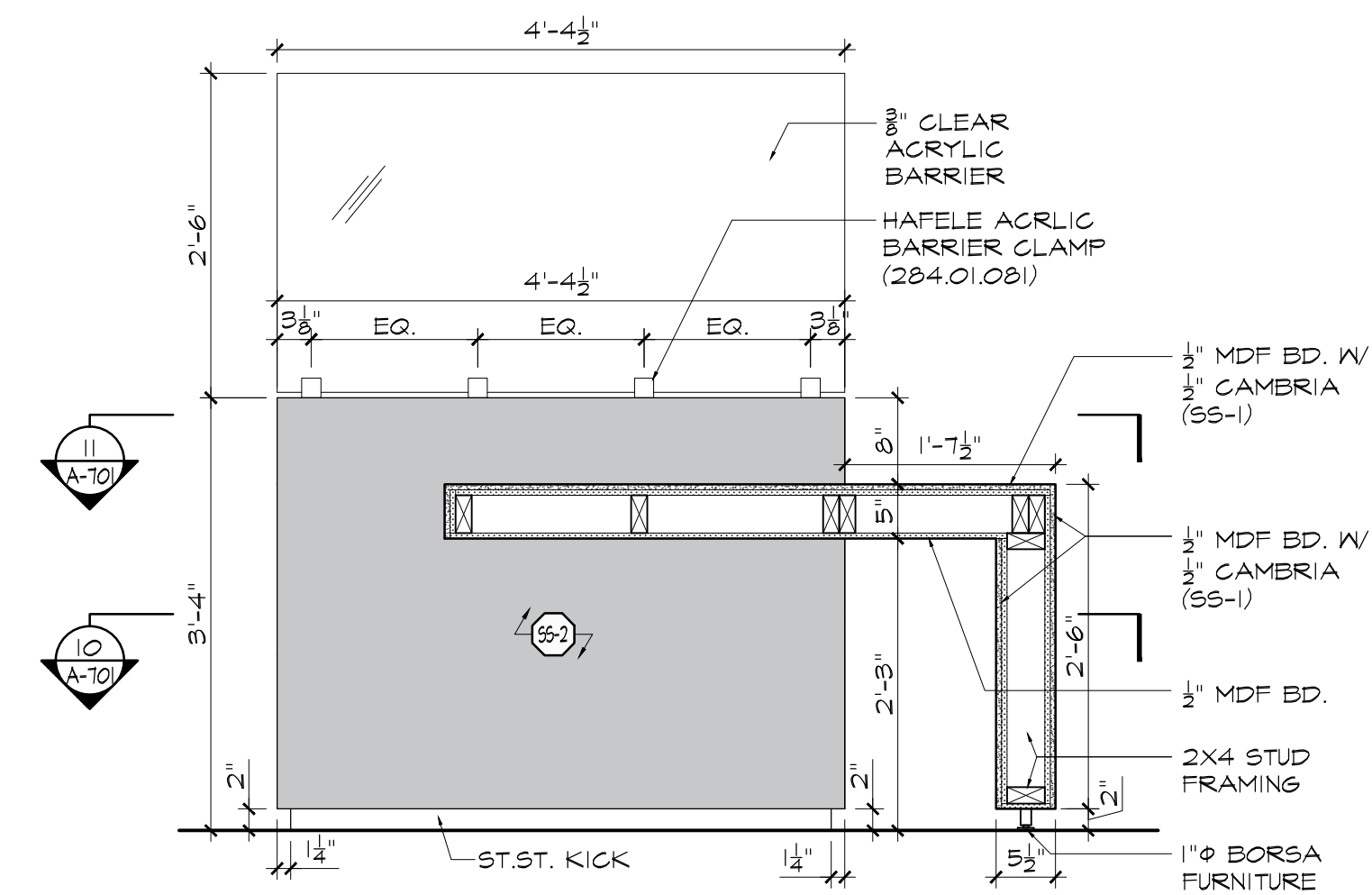
3 SECURITY DESK ELEVATION 2
SCALE: 3/4" = 1'-0"



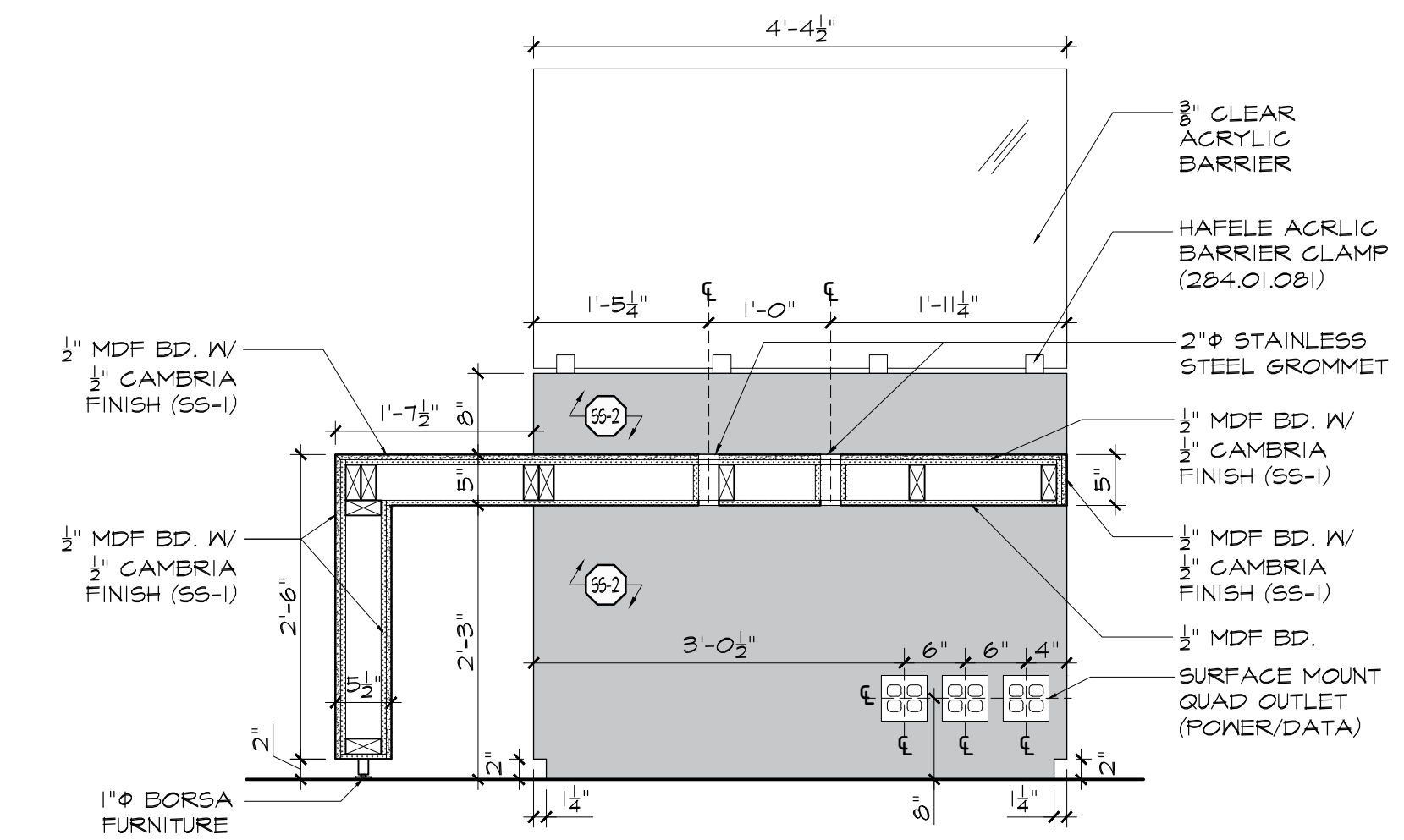
4 SECURITY DESK ELEVATION 3
SCALE: 3/4" = 1'-0"



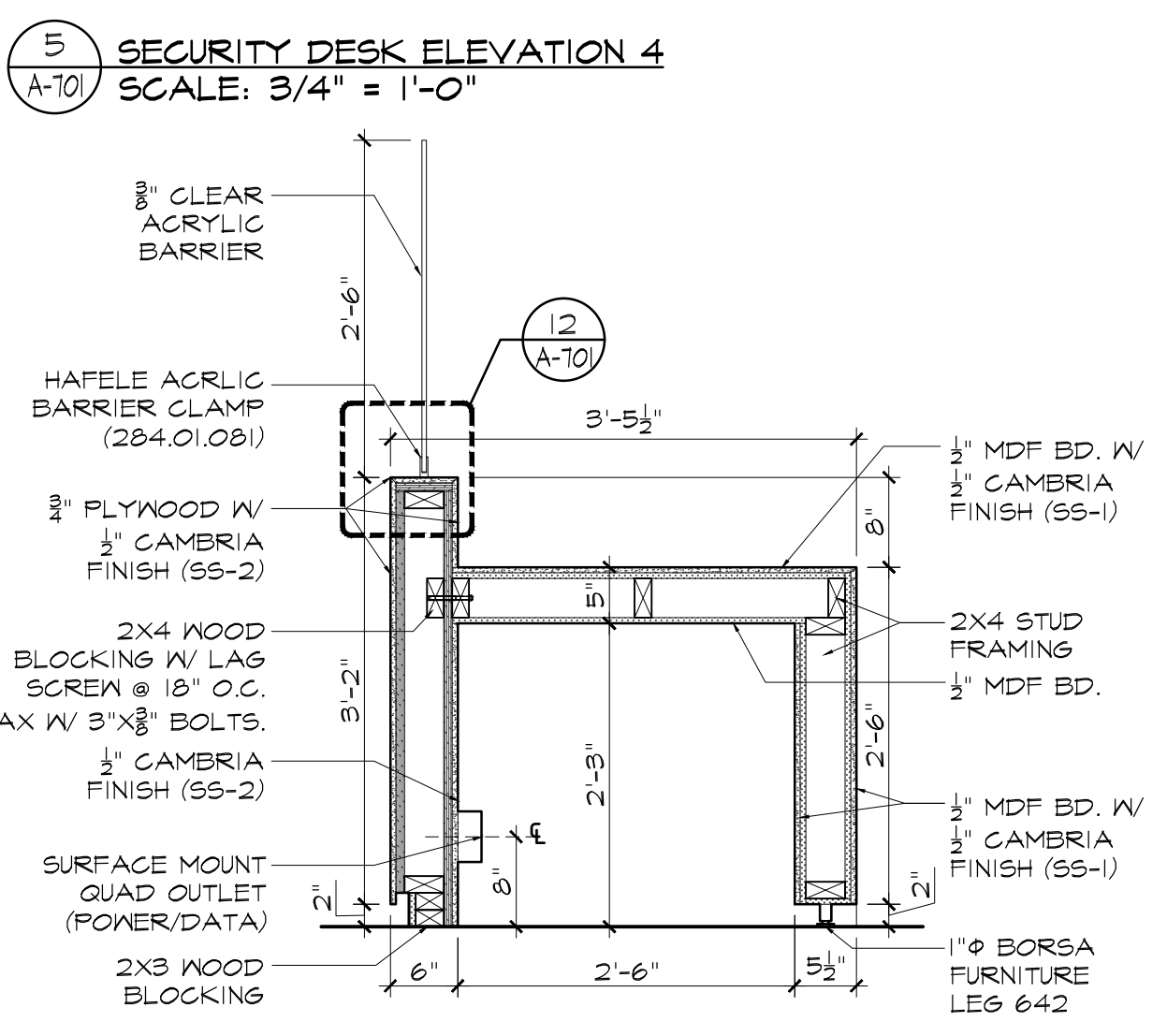
5 SECURITY DESK ELEVATION 4
SCALE: 3/4" = 1'-0"



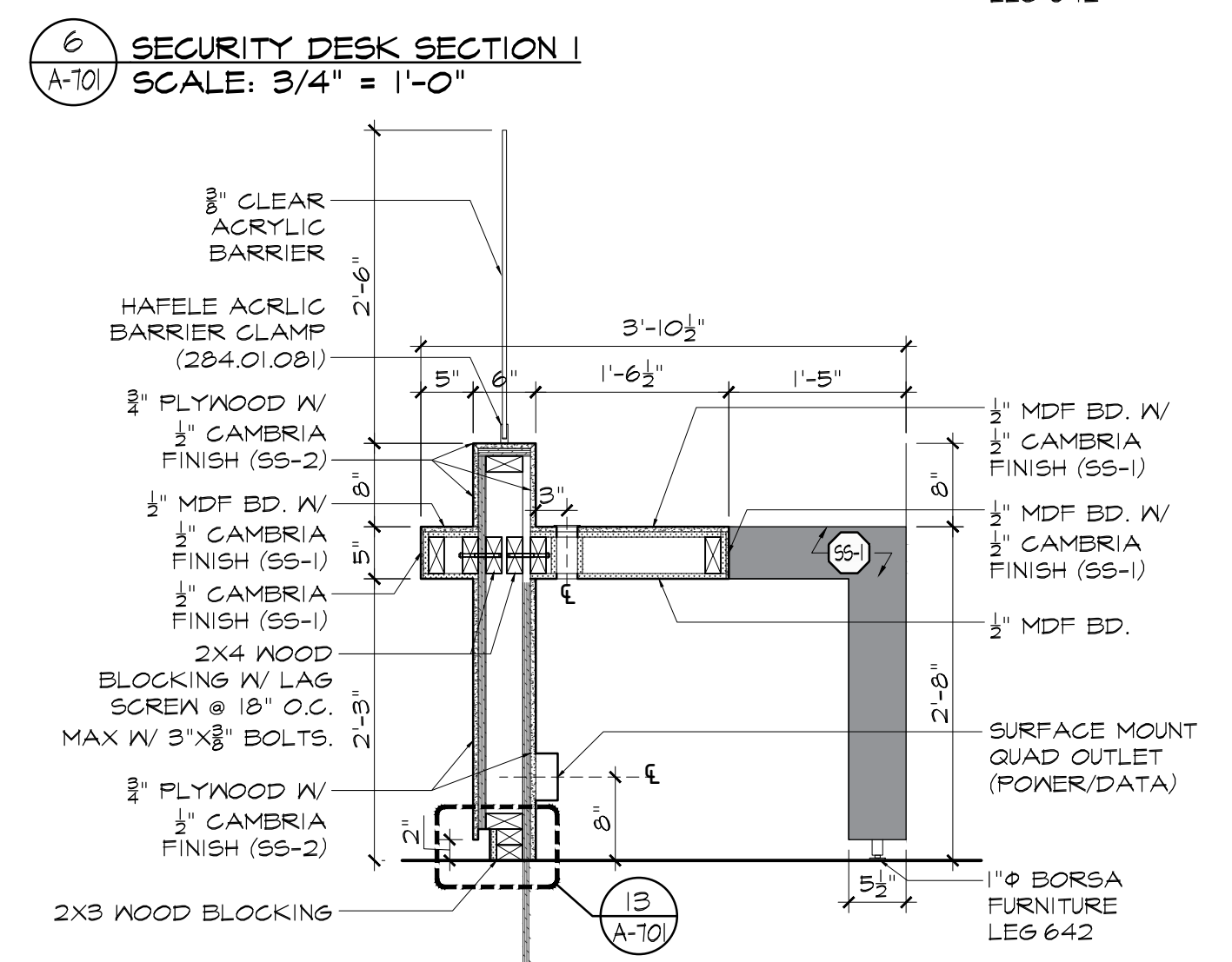
6 SECURITY DESK SECTION 1
SCALE: 3/4" = 1'-0"



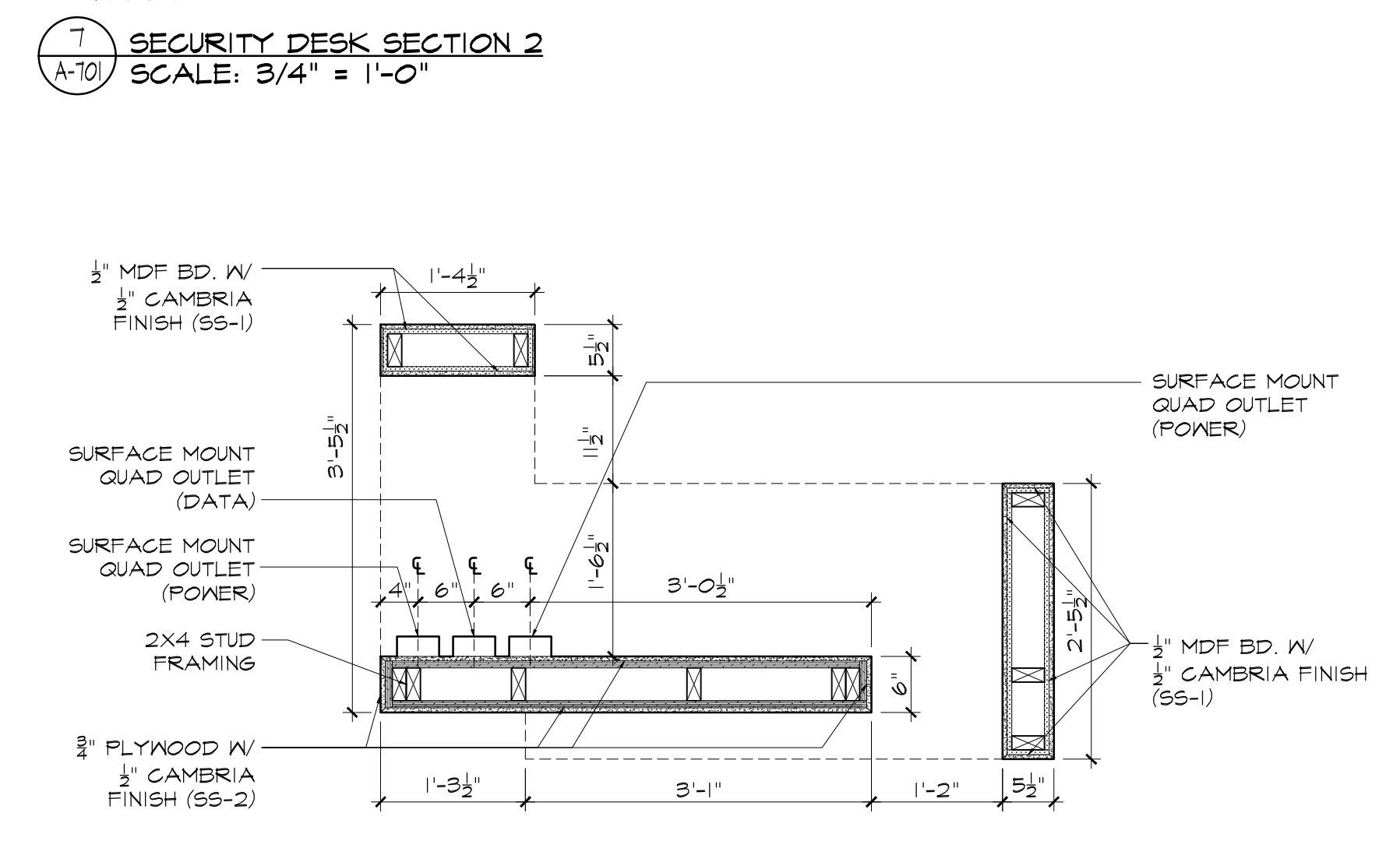
7 SECURITY DESK SECTION 2
SCALE: 3/4" = 1'-0"



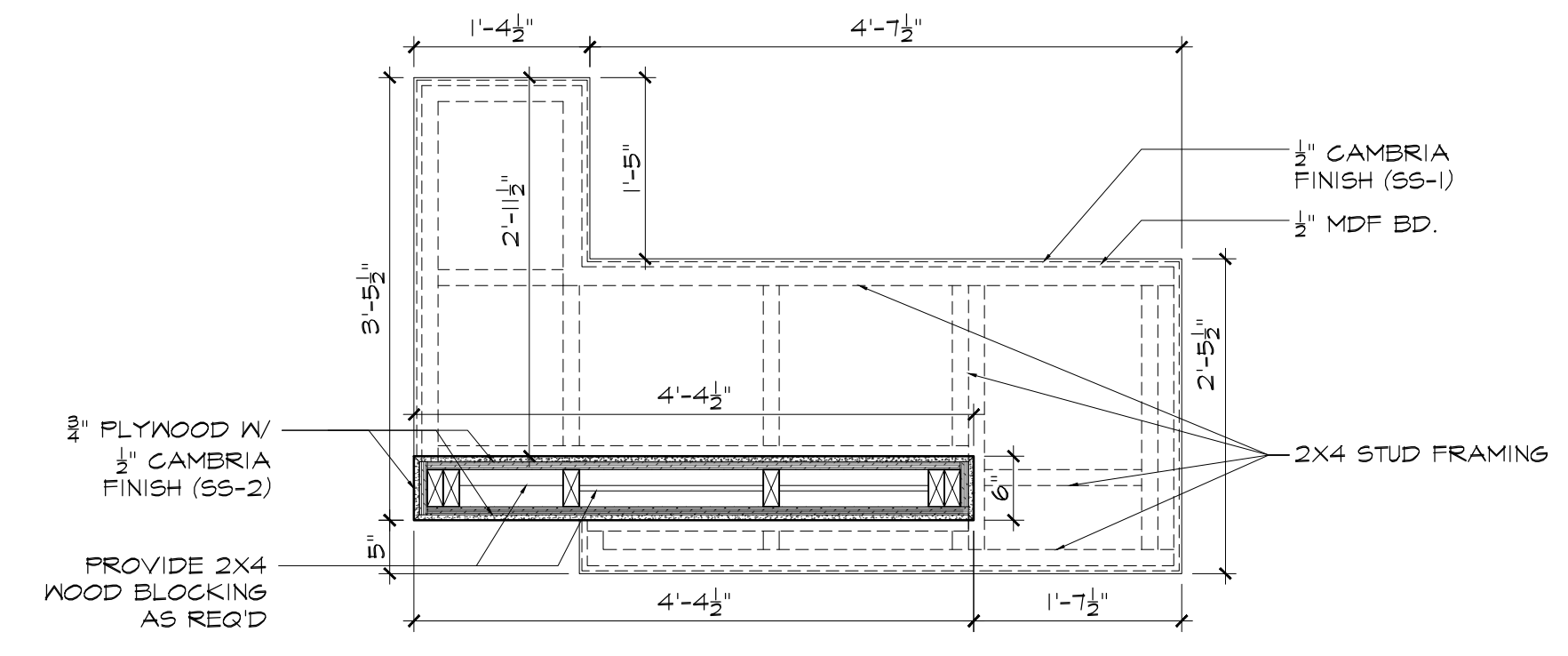
8 SECURITY DESK SECTION 3
SCALE: 3/4" = 1'-0"



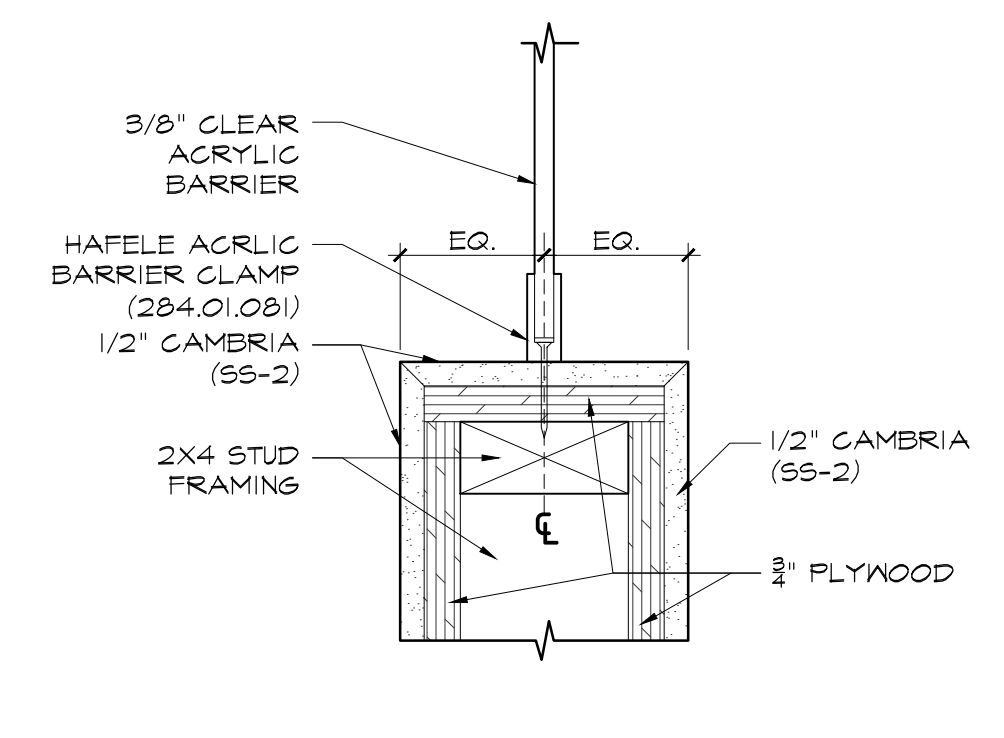
9 SECURITY DESK SECTION 4
SCALE: 3/4" = 1'-0"



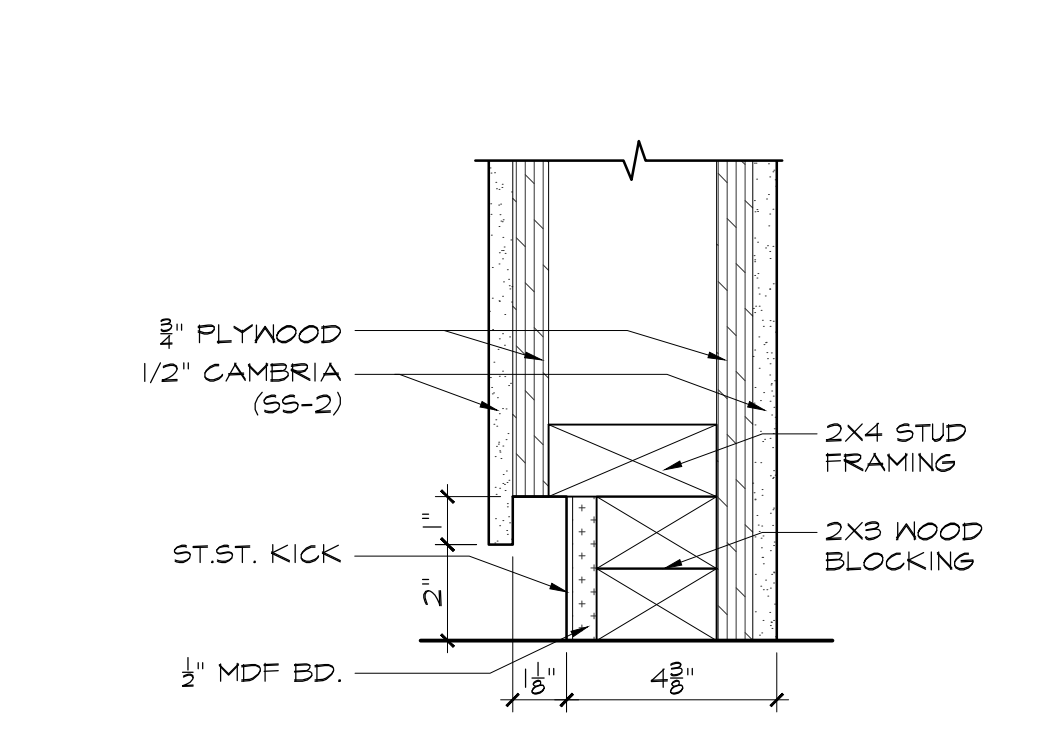
10 SECURITY DESK SECTION 5
SCALE: 3/4" = 1'-0"



11 SECURITY DESK SECTION 6
SCALE: 3/4" = 1'-0"

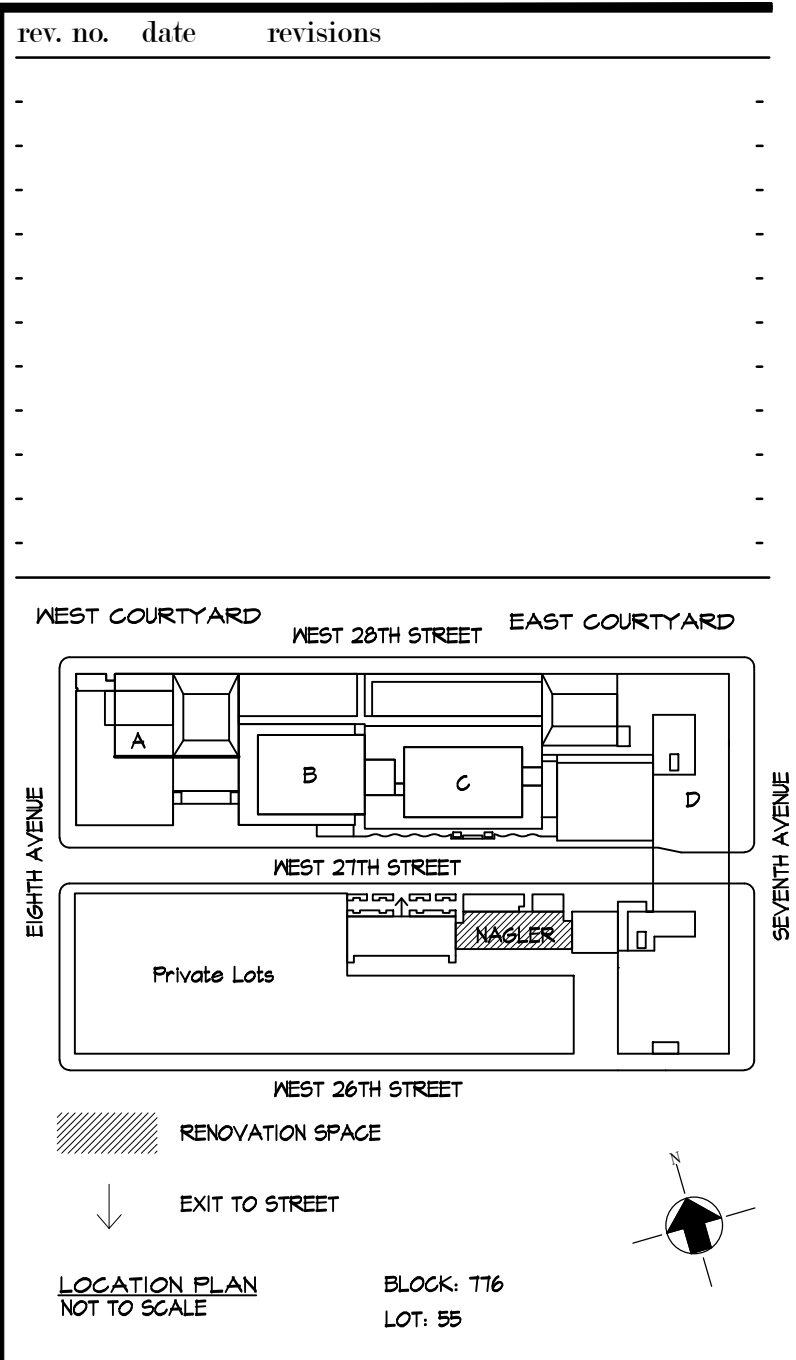


12 SECURITY DESK SECTION 7
SCALE: 3/4" = 1'-0"



13 SECURITY DESK SECTION 8
SCALE: 3/4" = 1'-0"

*SEE A-700 FOR SECURITY DESK FINISH DETAILS



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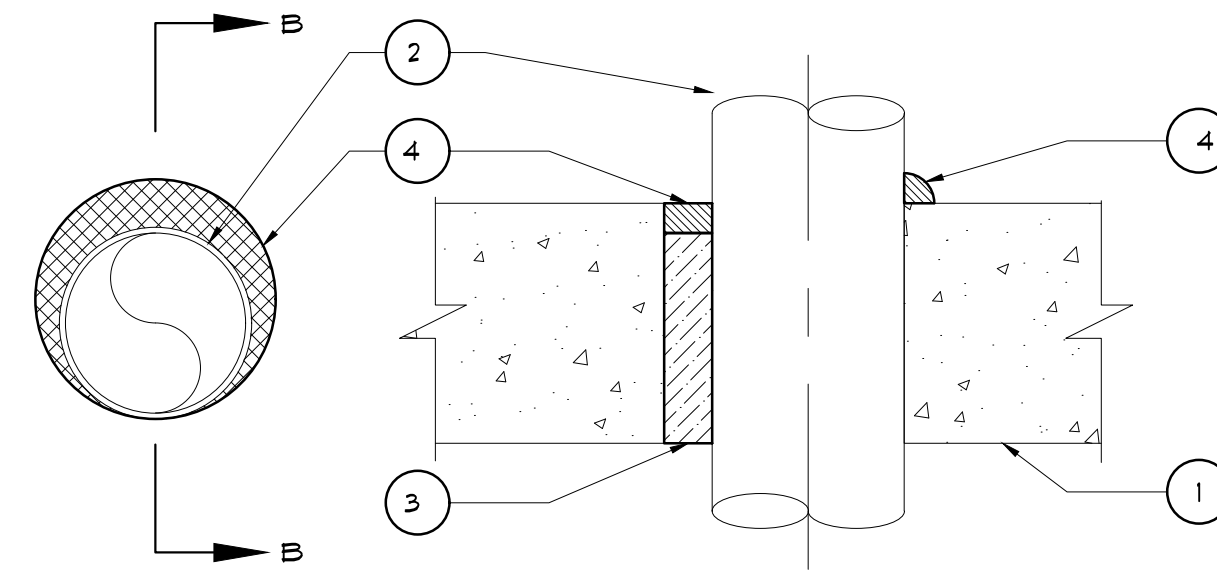
PROJECT:
NAGLER RESIDENCE HALL
 TURNSTILE INSTALLATION
 220 WEST 27TH STREET,
 NEW YORK, NY 10001

DRAWING TITLE:
NAGLER RESIDENCE HALL
SECURITY DESK MILLWORK

DEPARTMENT OF BUILDING JOB #

SEAL & SIGNATURE: _____ DATE: 03.02.2022
 PROJECT No: 13284.155B
 DRAWING BY: TM
 CHK BY: CK
 DWG No:
A-701.00
 SCALE AS NOTED 6 of 8

ANSI/UL 1479 (ASTM E814)	CAN/ULC 915
F RATING - 2 HR	F RATING - 2 HR
T RATING - 0 HR	FT RATING - 0 HR
L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT	PH RATING - 2 HR
W RATING - CLASS 1 (SEE ITEM 4)	PTH RATING - 0 HR
	L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT
	L RATING AT 400 F - 4 CFM/SQ FT

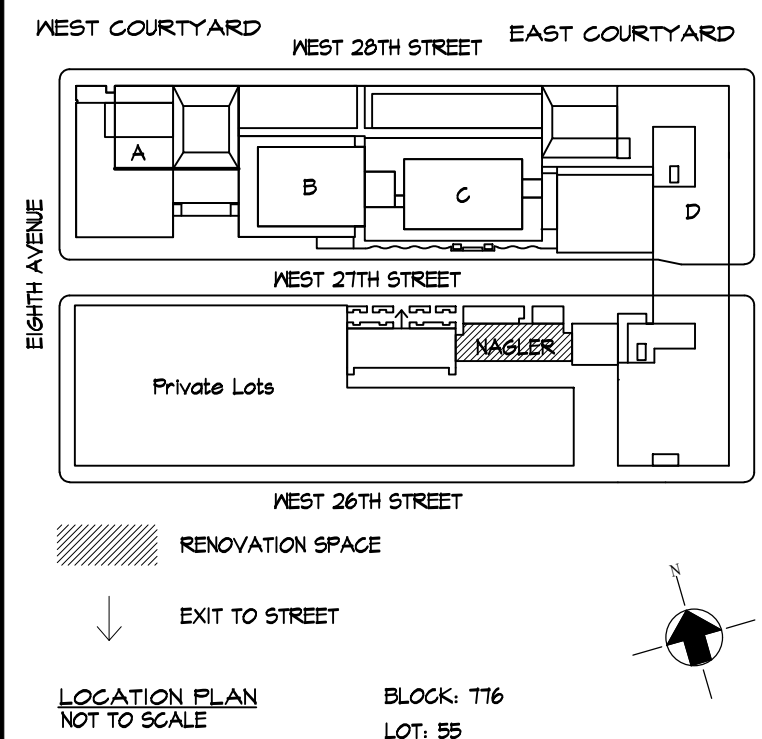


1. FLOOR OR WALL ASSEMBLY - MIN 4-1/2 IN. (114 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M³) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS, MAX DIAM OF OPENINGS 1/2 IN. (305MM); SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
2. THROUGH PENETRANTS - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED WITHIN THE FIRESTOP SYSTEM, PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE ANNULAR SPACE SHALL BE 0 IN. (POINT CONTACT) TO MAX 1-1/4 IN. (32 MM). THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
 - A. STEEL PIPE - NOM 10 IN. (254 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE
 - B. IRON PIPE - NOM 10 IN. (254 MM) DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
 - C. CONDUIT - NOM 4 IN. (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING OR STEEL CONDUIT.
 - D. COPPER TUBING - NOM 4 IN. (102 MM) (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
 - E. COPPER PIPE - NOM 4 IN. (102 IN.) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
3. PACKING MATERIAL - MIN 3 IN. (76 MM) THICKNESS OF MIN 4 PCF (64 KG/M³) MINERAL WOOL BATT INSULATION FOR NOM 4 IN. DIAM (AND SMALLER) PIPES, CONDUITS OR TUBINGS AND A MIN 4 IN. (102 MM) THICKNESS OF MIN 4 PCF (64 KG/M³) MINERAL WOOL BATT INSULATION FOR PIPE GREATER THAN NOM 4 IN. DIAM, FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.
4. FILL, VOID OR CAVITY MATERIAL - SEALANT- MIN 1/2 IN. (13 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH THE TOP SURFACE OF FLOOR OR BOTH SURFACES OF WALL. AT POINT CONTACT LOCATION BETWEEN PIPE AND CONCRETE, A MIN 1/2 IN. (13 MM) DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE/PIPE INTERFACE ON THE TOP SURFACE OF FLOOR AND ON BOTH SURFACES OF WALL. W RATINGS APPLIES ONLY WHEN CF8-S 9IL GG, CF8-S 9IL 9L (FLOORS ONLY), CF6015, CF604 SEALANT OR FS-ONE MAX INTUMESCENT SEALANT IS USED. FOR W RATINGS WHEN FS-ONE MAX IS USED, PACKING MATERIAL TO BE A MIN 4 IN. (102 MM) THICKNESS OF MIN 4 PCF (64KG/M³) MINERAL WOOL BATT INSULATION. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - CF6015, CF604, CF8-S 9IL 9L (FLOORS ONLY), CF606 OR FS-ONE SEALANT OR FS-ONE MAX INTUMESCENT SEALANT.

*INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR SUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.

1 FIRESTOPPING DETAIL - CONCRETE SLAB OR WALL HILTI FIRE RATED SYSTEM NO. C-JA-1149
 A-102 SCALE: 3" = 1'-0"

REV. NO. DATE REVISIONS



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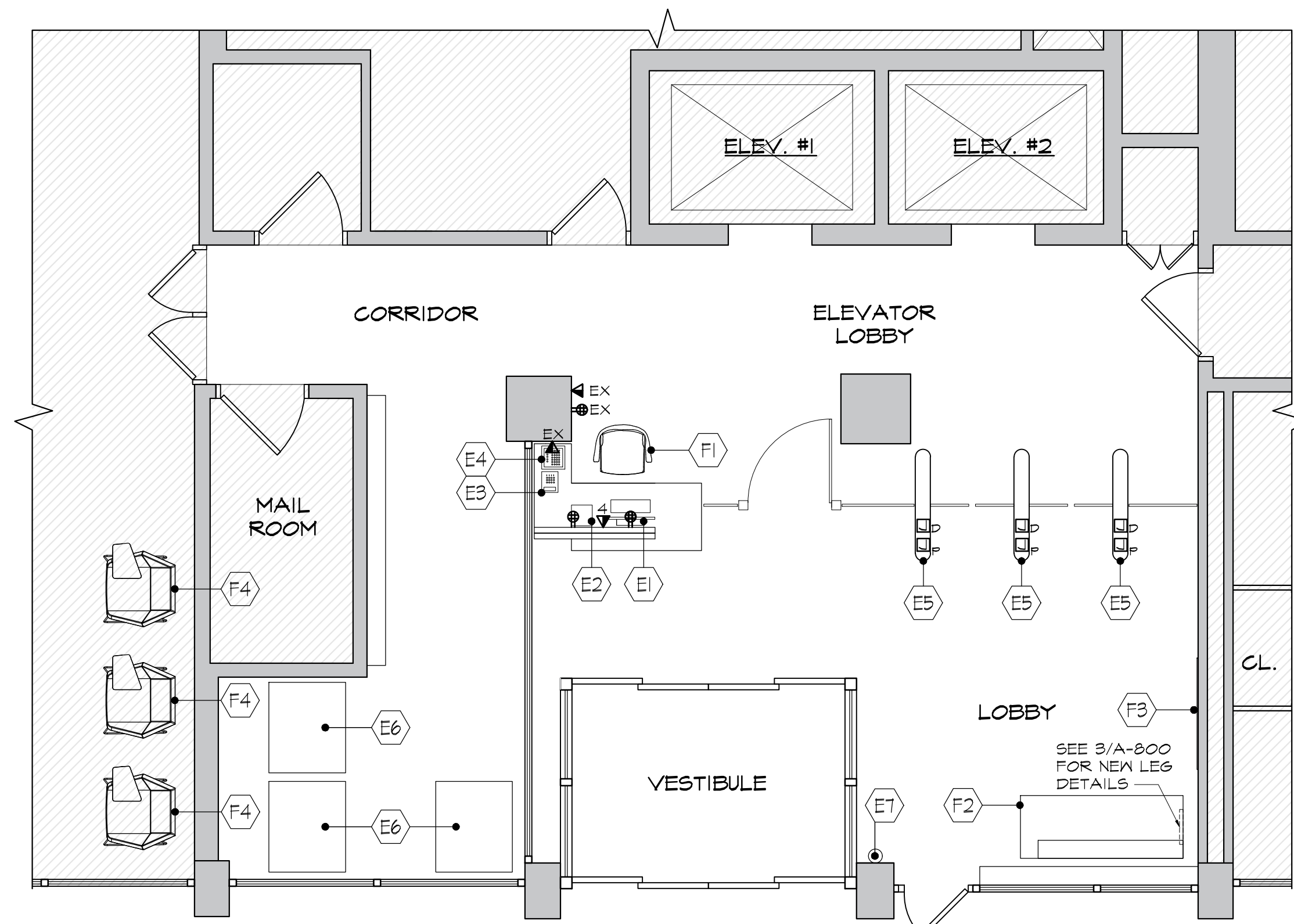
David Smotrich & Partners LLP
 Architects/Planners
 443 Park Avenue South New York, NY 10016
 212 889 4045 Fax 212 889 3672

PROJECT:
 NAGLER RESIDENCE HALL
 TURNSTILE INSTALLATION
 220 WEST 27TH STREET,
 NEW YORK, NY 10001

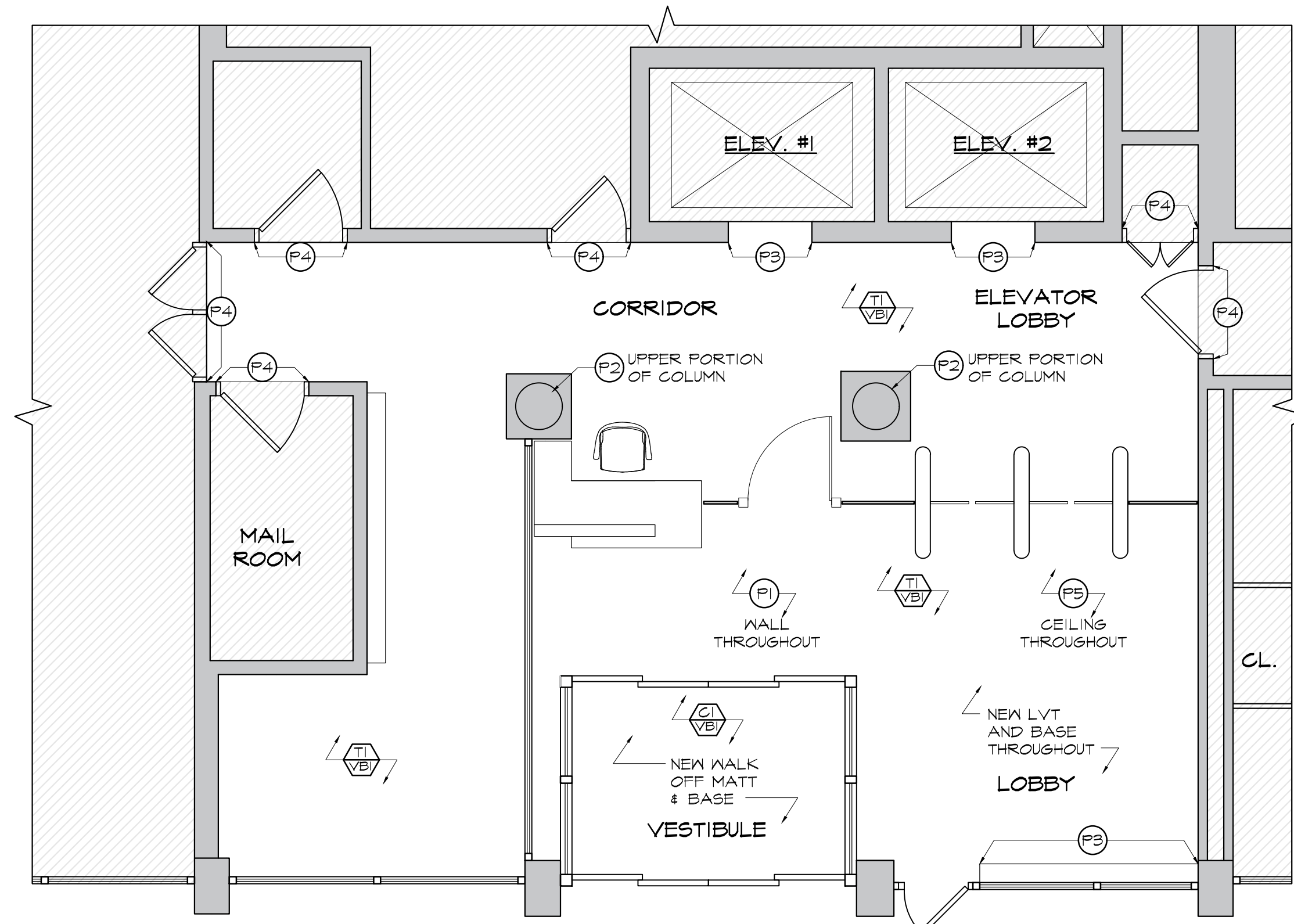
DRAWING TITLE:
 FIRESTOPPING DETAILS

DEPARTMENT OF BUILDING JOB #

SEAL & SIGNATURE: DATE: 03.02.2022
 PROJECT No: 13204.155B
 DRAWING BY: TM
 CHK BY: CK
 DWG No:
A-702.00
 SCALE AS NOTED 1 of 8



1 FURNITURE & POWER PLAN
SCALE: 1/4" = 1'-0"



2 FINISH PLAN
SCALE: 1/4" = 1'-0"

FURNITURE SCHEDULE

ITEM NO.	QTY.	MANUFACTURER	DESCRIPTION	REMARKS
F1	1	-	EXISTING SECURITY CHAIR	FIT SUPPLIED
F2	1	STEELCASE	EXISTING SOFA (COT09696LB) W/ NEW LEG	SEE 3/A-800
F3	1	OBEX	TACK BOARD SIZE: 3'-10" X 4'-11" COLOR: TERRAIN CLOUD	CONTRACTOR SUPPLIED AND INSTALLED
F4	3	-	EXISTING CHAIR TO BE RELOCATED BY CONTRACTOR	FIT SUPPLIED

EQUIPMENT SCHEDULE

ITEM NO.	QTY.	MANUFACTURER	DESCRIPTION	REMARKS
E1	1	-	COMPUTER W/ MONITOR	FIT SUPPLIED & INSTALLED
E2	1	-	ID SCANNER	FIT SUPPLIED & INSTALLED
E3	1	-	TELEPHONE	FIT SUPPLIED & INSTALLED
E4	1	GUNNEBO	TURNSTILE CONTROL PANEL	SUPPLIED & INSTALLED BY OTHERS, CONTRACTOR TO PROVIDE POWER AND EMPTY CONDUITS FOR DATA AS REQUIRED
E5	1	GUNNEBO	OPTISTILE T20 TURNSTILES	
E6	1	-	VENDING MACHINE	FIT SUPPLIED & INSTALLED
E7	1	-	FIRE EXTINGUISHER	FIT SUPPLIED & CONTRACTOR INSTALLED

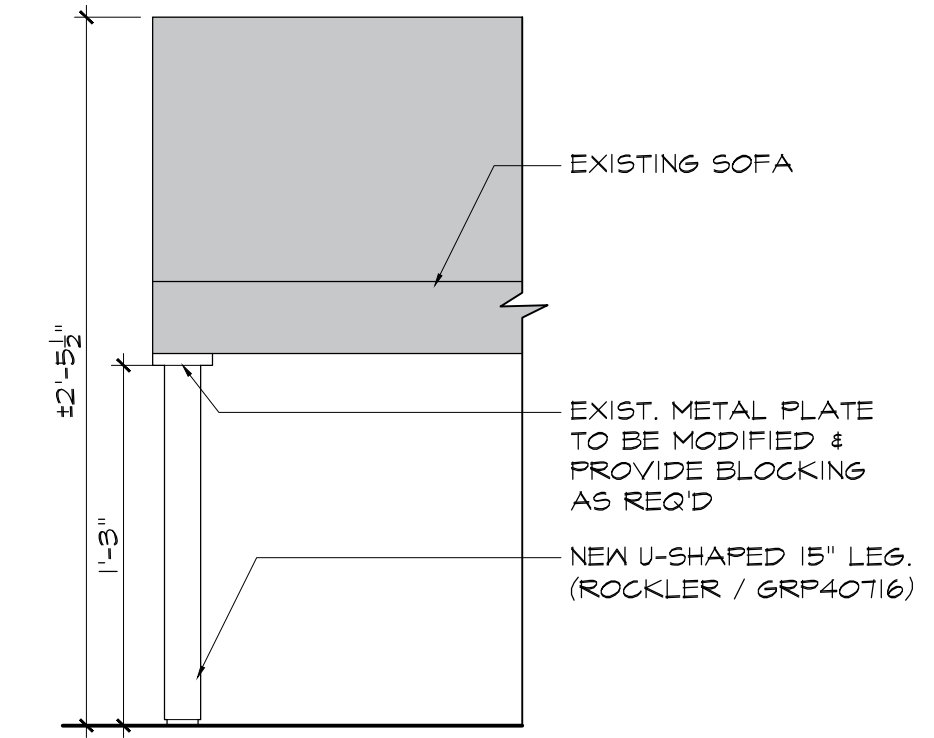
- EQUIPMENT NOTES:
- CONTRACTOR TO COORDINATE EXACT LOCATION OF ALL ELECTRICAL CONNECTIONS WITH FIT AND FIT'S TURNSTILE VENDOR.
 - CONTRACTOR TO COORDINATE EXACT LOCATION OF ALL DATA JUNCTION BOXES AND CONDUIT RUNS WITH FIT AND FIT'S TURNSTILE VENDOR.

- LEGEND
- ⌘ SWITCH
 - ⊕ OUTLET
 - ⊕^{EX} EXISTING OUTLET
 - ⊕^{QUAD} EXISTING QUAD
 - ⊕^{EX} EXISTING QUAD
 - ⊕^{FLOOR} FLOOR MOUNTED OUTLET
 - ▽ VOICE / DATA
 - ▽^{QUAD} QUAD VOICE / DATA (1 VOICE & 3 DATA)
 - ▽^{EX} EXISTING VOICE / DATA
 - ⊕^{FLOOR} FLOOR MOUNTED DATA
 - ⊕^{JUNCTION} JUNCTION BOX FOR DATA
 - ⊕^{JUNCTION} JUNCTION BOX FOR POWER

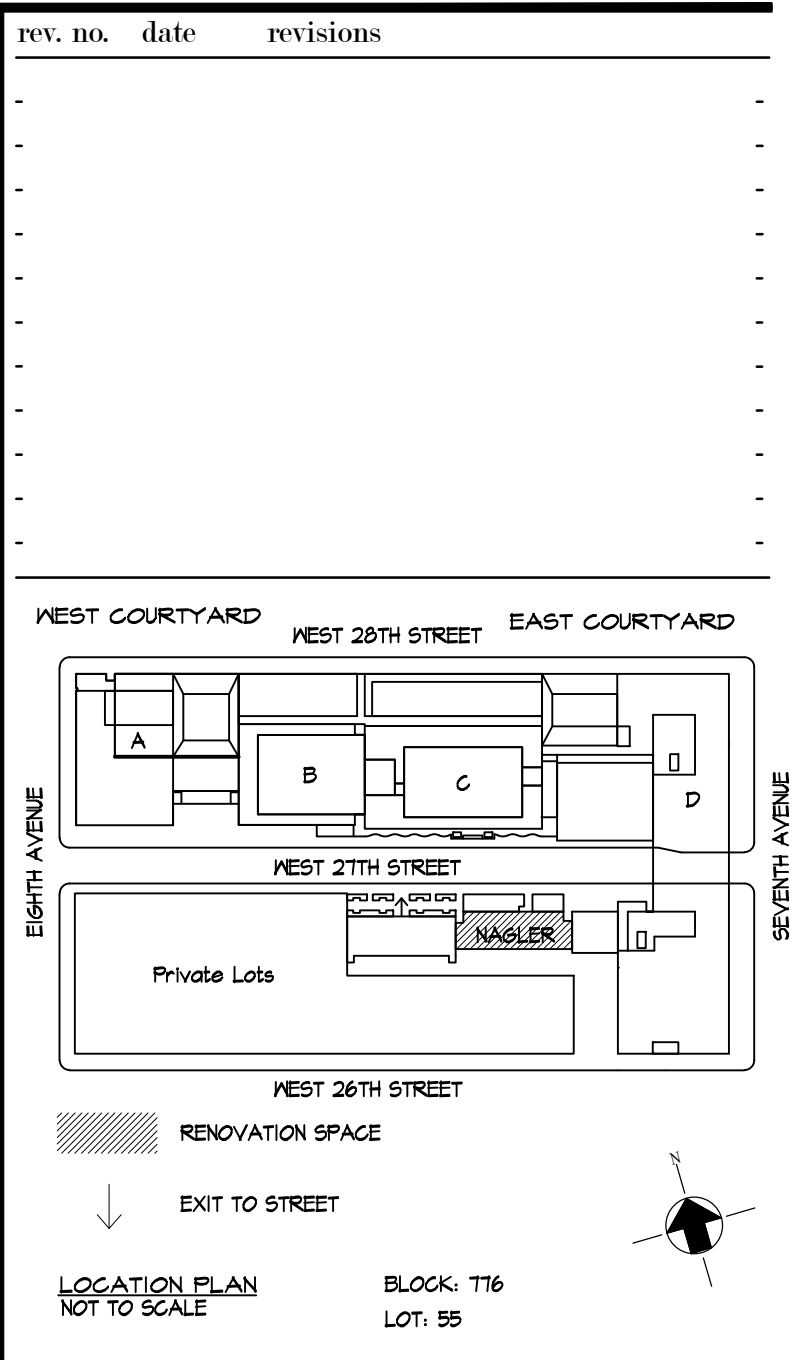
Finish Legend

LVT TILE	CARPET
T1 (FLOOR) MFR: ARMSTRONG COLOR: NABBO BRACO PLASTER SIZE: 12"X24"	C1 (VESTIBULE) MFR: BENTLEY STYLE: ROUGH IDEA STYLE #: 800659 COLOR: OUTLINE
BASE MFR: ALLSTATE MATERIAL: VINYL BASE COLOR: A90	
PAINT	
P1 (WALL) MFR: BENJAMIN MOORE COLOR: WHITE OPULENCE (OC-69)	P3 MFR: BENJAMIN MOORE COLOR: MATCH EXISTING SEMI GLOSS FOR FERROUS METAL
P2 (UPPER PORTION OF COLUMN) MFR: BENJAMIN MOORE COLOR: MYSTICAL GRAPE (2071-30)	P4 MFR: BENJAMIN MOORE COLOR: MATCH EXISTING
	P5 (CEILING) MFR: BENJAMIN MOORE COLOR: MATCH EXISTING
SOLID SURFACE	
SS1 (SECURITY DESK WORK SURFACE) MFR: CAMBRIA COLOR: CLARE THICKNESS: 1" FINISH: POLISHED	SS2 (SECURITY DESK VERTICAL SURFACE) MFR: CAMBRIA COLOR: FOGGY CITY THICKNESS: 1" FINISH: POLISHED

- FINISH NOTES:
- GC SHALL SUBMIT ALL SAMPLES EXISTING TO MATCH OR NEW FOR ARCHITECTS' REVIEW & APPROVAL DURING THE SHOP DRAWING PHASE.
 - CEILING TO BE PAINTED (P5).



3 SOFA NEW LEG DETAIL
SCALE: 1-1/2" = 1'-0"



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212 889 4045 Fax 212 889 3672

PROJECT:
NAGLER RESIDENCE HALL
TURNSTILE INSTALLATION
220 WEST 27th STREET,
NEW YORK, NY 10001

DRAWING TITLE:
NAGLER RESIDENCE HALL
FURNITURE & POWER PLAN,
FINISH PLAN AND FINISH
LEGEND

DEPARTMENT OF BUILDING JOB #

SEAL & SIGNATURE: _____ DATE: 03.02.2022
PROJECT No: 13284.155B
DRAWING BY: TM
CHK BY: CK
DWG No:
A-800.00
SCALE AS NOTED 3 of 8

ELECTRICAL - SYMBOLS	
	WALL MOUNTED EXIT LIGHT.
	CEILING MOUNTED EXIT LIGHT WITH SELF CONTAINED BATTERY PACK. SHADED AREA INDICATES ILLUMINATED FACE(S). DIRECTIONAL ARROWS ARE INDICATED.
	PANELBOARD
	DISTRIBUTION OR POWER PANELBOARD.
	GROUND BAR
	CT CABINET
	METER (DIRECT / UTILITY)
	SUB-METER
	HOMERUN TO DESIGNATED PANELBOARD - NUMERALS INDICATE CIRCUIT NUMBER
	GROUND CONNECTION
	DUPLICATE RECEPTACLE. SUBSCRIPT INDICATES: WP - WEATHERPROOF ENCLOSURE GF - GROUND-FAULT CIRCUIT-INTERRUPTER RECEPTACLE IS - ISOLATED GROUNDING RECEPTACLE 20A - 20 AMP RECEPTACLE HG - HOSPITAL GRADE RECEPTACLE C - AUTOMATICALLY CONTROLLED RECEPTACLE F - FUTURE SWITCHED RECEPTACLES FOR MOTORIZED SHADES # - IDENTIFIES PANELBOARD CIRCUIT NUMBER (TYPICAL FOR ALL RECEPTACLES) USB - USB RECEPTACLE - NEMA 5-15R USB, PASS & SEYMOUR CAT# TM8-USB-CC6 OR EQUIVALENT
	DOUBLE DUPLEX CONVENIENCE RECEPTACLE WALL MOUNTED IN GANG BOX
	HALF-SWITCHED DUPLEX RECEPTACLE
	NEMA 5-20R, 20A RECEPTACLE (GFCI)
	RECEPTACLE, NEMA 6-50R 208V, 50A COORDINATE WITH MANUFACTURER
	DOUBLE DUPLEX RECEPTACLE
	STUB UP FACE PLATE TO BE MTD. ON MILLWORK FOR RECEPTACLE
	DUPLEX RECEPTACLE GFI
	FLOOR MOUNTED DUPLEX / DOUBLE DUPLEX / SIMPLEX RECEPTACLE. 15A, 3 WIRE, 125 VOLT, POKE-THRU SERVICE FITTING, UON.
	SPECIAL PURPOSE OUTLET. (COORDINATE REQUIREMENTS WITH VENDOR FOR EACH EQUIPMENT)
	SIMPLEX RECEPTACLE
	NEMA 5-15R RECESSED SIMPLEX CLOCK-HANGAR RECEPTACLE
	SINGLE CEILING MOUNTED CONVENIENCE RECEPTACLE
	SPECIAL PURPOSE CEILING MOUNTED RECEPTACLE
	SINGLE POLE SWITCH, LOWER CASE LETTER IDENTIFIES OUTLET(S) CONTROLLED, UPPER CASE LETTER AND OR NUMERAL INDICATES: 2 - DOUBLE POLE 3 - THREE WAY 4 - FOUR WAY P - WITH PILOT LIGHT H - HORSEPOWER RATED WITH HASP FOR LOCK K - KEY OPERATED D - DIMMER SWITCH T - TIMER SWITCH J - DOOR JAM SWITCH L - LOCKING - WITH HASP FOR LOCK MM - MANUAL MOTOR STARTER SWITCH (LOCKING) TS - THERMAL SWITCH OS - OCCUPANCY SENSOR SWITCH VS - VACANCY SENSOR SWITCH SS - SCENE SELECTOR OV - TIME-CLOCK OVER-RIDE SWITCH
	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
	CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR
	PHOTO-CELL
	DAYLIGHT SENSOR
	3-POLE UNFUSED DISCONNECT (SAFETY) SWITCH. NUMERAL INDICATES AMPACITY, 'WP' DENOTES WEATHERPROOF ENCLOSURE. NO NUMBER INDICATES 30A OR LESS.
	3-POLE FUSED DISCONNECT (SAFETY) SWITCH. NUMERAL INDICATES SWITCH AMPACITY/FUSE SIZE, 'WP' DENOTES WEATHERPROOF ENCLOSURE. NO NUMBER INDICATES 30A OR LESS.
	3-POLE COMBINATION DISCONNECT & MOTOR STARTER. NUMERAL INDICATES FUSE SIZE, 'WP' DENOTES WEATHERPROOF ENCLOSURE.
	3-POLE MOTOR STARTER. NUMERAL INDICATES FUSE SIZE, 'WP' DENOTES WEATHERPROOF ENCLOSURE.
	VARIABLE FREQUENCY DRIVE
	MOTOR, # INDICATES HORSEPOWER
	FUSIBLE SWITCH
	BOLTED PRESSURE SWITCH
	CIRCUIT BREAKER

ELECTRICAL - SYMBOLS	
	CEILING/WALL/FLOOR MOUNTED JUNCTION BOX
	SPULCE BOX
	PULLBOX
	TIME CLOCK
	CONTACTOR / RELAY
	LEAK DETECTOR
	CONNECTOR - LETTER DESIGNATES UNIQUE CONNECTION POINT
	PUSHBUTTON
	DOOR CONTACT. SEE LIGHTING PLANS FOR LOCATIONS.

TELEPHONE, COMMUNICATION, SECURITY & LOW-VOLTAGE SYMBLOLS	
	TELEPHONE OUTLET, W - FOR WALL TELEPHONE
	DATA OUTLET
	COMBINATION TELEPHONE/DATA OUTLET.
	TELEPHONE OUTLET FLOOR MOUNTED
	COMBINATION TELEPHONE / DATA FLOOR MOUNTED OUTLET
	FLOOR MOUNTED DATA SYSTEM OUTLET
	TV OUTLET
	NID - NETWORK INTERFACE DEVICE PANEL
	SECURITY CAMERA
	SPEAKER - WALL MOUNTED

ABBREVIATIONS	
DESCRIPTION	DESCRIPTION
A AMPERE	LTG LIGHTING
AC ABOVE COUNTER TOP	MCM THOUSAND CIRCULAR MILS
AFB ABOVE FINISHED FLOOR	MECH MECHANICAL
AWG AMERICAN WIRE GAUGE	MISC MISCELLANEOUS
BLDG BUILDING	MTD MOUNTED
C CONDUIT	NIC NOT-IN-CONTRACT
CB CIRCUIT BREAKER	NL NIGHT LIGHT
CCTV CLOSED CIRCUIT TELEVISION	NTS NOT TO SCALE
CKT CIRCUIT	PB PNL PULL BOX
CLG CEILING	R PANEL
CU COPPER	RE REMOVE
DISC DISCONNECT	RM RELOCATED EXISTING DEVICE
DWG DRAWING	SPECS SPECIFICATIONS
E EXISTING	SW SWITCH
EC EMPTY CONDUIT	TV TELEVISION
ELEC ELECTRICAL	TYP TYPICAL
EM EMERGENCY	UC UNDER COUNTER
ER EXISTING TO BE RELOCATED	UF UON UNFUSED
FA FIRE ALARM	V UNLESS OTHERWISE NOTED
FT GD FEET	W VOLT OR VOLTAGE
GFI GROUND FAULT INTERRUPTER	WP WATT
HP HORSEPOWER	WI WEATHER-PROOF
IC INTERRUPTING CAPACITY	M TRANSFORMER
JB JUNCTION BOX	WIFI WIFI MONITOR
KVA KILOVOLT AMPERE	
KW KILOWATT	

LEGEND	
	NEW WORK
	EXISTING
	DEMO
	U/G / CONCRETE ENCASED
	MULTI-OUTLET RACEWAY ASSEMBLY (PLUGMOLD-WIREMOLD)
	BUSWAY
	CONDUIT BANK
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	FLEX TYPE FMC / LFMC CONDUIT AS REQUIRED
	CAPPED CONDUIT

MISCELLANEOUS SYMBOLS	
SYMBOLS	DESCRIPTION
	RISER DESIGNATION
	RISER SERVICE RISER NUMBER
	RISER DESIGNATION
	RISER SERVICE RISER NUMBER
	RISER DESIGNATION
	RISER SERVICE RISER NUMBER
	SECTION
	DETAIL DRAWING LOCATION
	DETAIL DRAWING LOCATION
	REVISION NUMBER

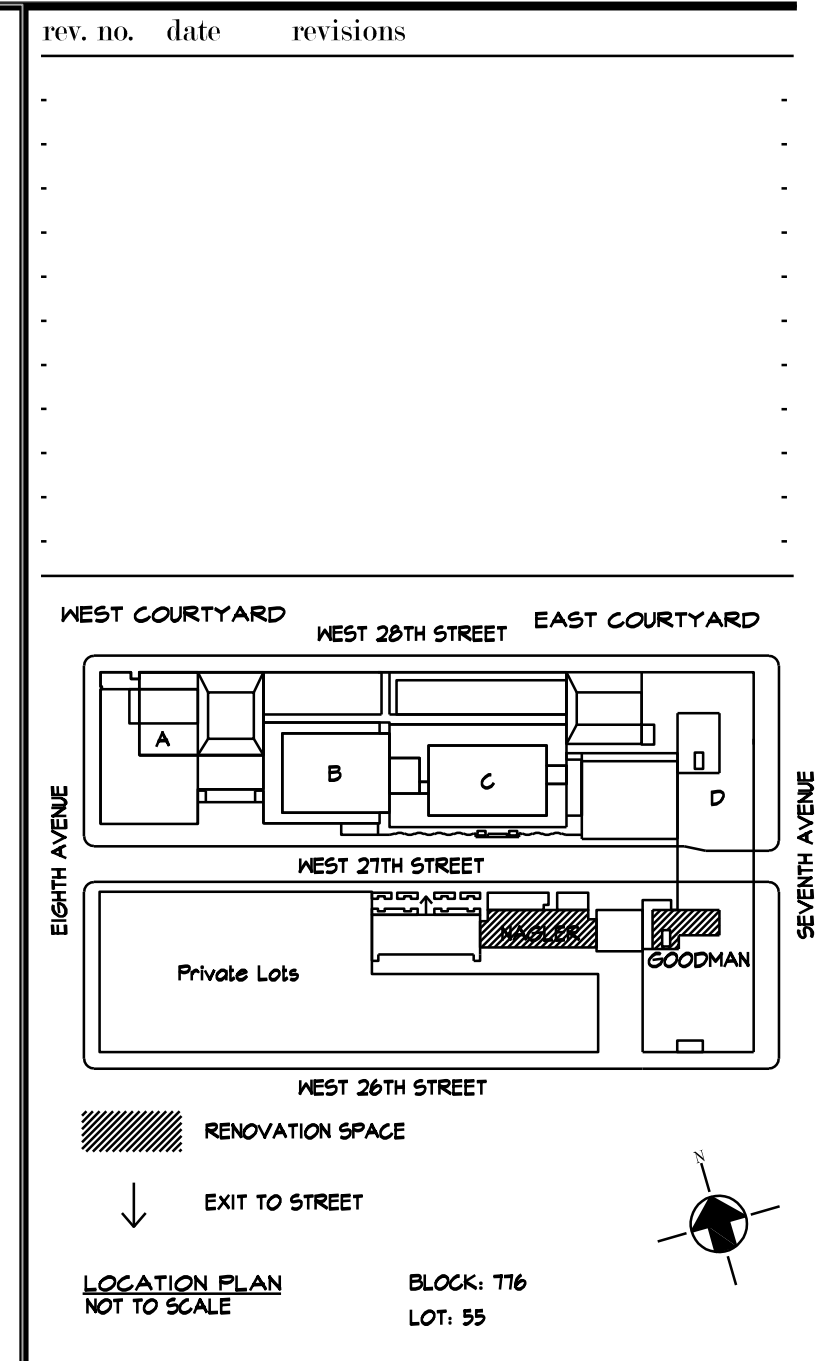
ELECTRICAL DRAWING LIST	
DWG No.	DRAWING TITLE
E-001.00	ELECTRICAL SYMBOL LIST, ABBREVIATIONS, AND DRAWING LIST
E-002.00	ELECTRICAL SPECIFICATION
E-100.00	ELECTRICAL NAGLER - CELLAR & 1ST FLOOR PART PLANS
E-101.00	ELECTRICAL GOODMAN CELLAR & 1ST FLOOR PART PLANS
E-300.00	ELECTRICAL DETAILS AND PANEL SCHEDULES
FA-001.00	FIRE ALARM-NAGLER FIRE ALARM SYMBOL LIST, GENERAL NOTES AND ABBREVIATIONS
FA-002.00	PART RISER DIAGRAM, RISER NOTES & MATRIX
FA-100.00	FIRE ALARM CELLAR & 1ST FLOOR PART PLANS
FA-001.00	FIRE ALARM-GOODMAN FIRE ALARM SYMBOL LIST, GENERAL NOTES AND ABBREVIATIONS
FA-002.00	PART RISER DIAGRAM, RISER NOTES, & MATRIX
FA-101.00	FIRE ALARM CELLAR & 1ST FLOOR PART PLANS

GENERAL NOTES

- THE GENERAL NOTES APPLY TO ALL DRAWINGS UNDER THIS CONTRACT. REFER TO INDIVIDUAL DRAWINGS FOR ADDITIONAL NOTES.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE CONDITIONS. MAINTAIN HEADROOM AND SPACE CONDITIONS CONSISTENT WITH PROJECT CRITERIA.
- EXACT LOCATION OF LIGHTING FIXTURES SHALL BE IN ACCORDANCE WITH ARCHITECTURAL REFLECTED CEILING PLAN OR AS DIRECTED BY THE ARCHITECT.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CEILING WORK WITH CEILING CONTRACTOR AND DETERMINE CEILING TYPE PRIOR TO FURNISHING OF LIGHTING FIXTURES, SPEAKERS, SMOKE DETECTORS, EXIT LIGHTS, OR ANY OTHER CEILING MOUNTED ELECTRICAL ELEMENTS. ELECTRICAL WORK SHALL ALSO BE COORDINATED WITH LOCATION OF DIFFUSES, SPRINKLERS AND OTHER MECHANICAL WORK.
- EXACT LOCATION AND MOUNTING OF LIGHTING FIXTURES IN MECHANICAL AREAS SHALL BE COORDINATED WITH THE MECHANICAL TRADES TO AVOID CONFLICT WITH PIPING, DUCTS AND EQUIPMENT. IN GENERAL, THE FINAL LOCATION OF LIGHTING FIXTURES SHALL BE GOVERNED BY THE NEED OF TASK LIGHTING IN THE VICINITY OF PANELBOARDS, MOTOR CONTROLS, CONTROLS AND INSTRUMENT PANELS AND GAUGES.
- LOCATION OF OUTLETS AND SWITCHES IN FINISHED ROOMS SHALL BE VERIFIED WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISHES. IN CENTERING OUTLETS AND LOCATION OF BOXES AND OUTLETS ALLOW FOR OVERHEAD PIPES, DUCTS AND MECHANICAL EQUIPMENT, VARIATION IN FIREPROOFING AND PLASTERING, WINDOW AND DOOR TRIMS, PANELING, SUSPENDED CEILING AND THE LIKE. CORRECT ANY INACCURACY RESULTING FROM FAILURE TO DO SO WITHOUT ANY ADDITIONAL EXPENSE TO THE OWNER.
- JUNCTION AND PULL BOXES SHALL GENERALLY BE LOCATED FOR FLUSH MOUNTING IN FINISHED SPACES. WHERE NECESSARY, CONDUIT SHALL BE REROUTED OR OTHER ARRANGEMENTS SHALL BE MADE FOR CONCEALMENT. PULL BOXES SHALL BE PROVIDED AS INDICATED AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE AND COORDINATE LOCATION WITH OTHER TRADES. COVERS OF JUNCTION AND PULL BOXES SHALL BE ACCESSIBLE. FOR EMPTY RACEWAY RUNS PULL BOXES SHALL BE PROVIDED EVERY 100 FEET AND AS INDICATED OR NECESSARY.
- SEPARATE BOXES OR WIREWAYS SHALL BE PROVIDED FOR EMERGENCY AND NORMAL WIRING.
- ALL OUTLET BOXES RECEIVING 1-1/4" CONDUIT SHALL BE A MINIMUM OF 2-1/2" DEEP.
- BOXES SHALL BE SET SQUARE AND TRUE WITH BUILDING FINISH. WALL AND SWITCH OUTLETS SHALL BE ERRECTED IN ADVANCE OF FURRING AND FIREPROOFING. BOXES SHALL BE SECURED TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRONS.
- LOCATIONS INDICATED FOR WALL SWITCHES ARE SUBJECT TO MODIFICATIONS AT OR NEAR DOORS, SWITCH SHALL BE INSTALLED ON SIDE OPPOSITE HINGE (FINAL DOOR HINGE LOCATION SHALL BE VERIFIED IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION).
- ALL SUPPORTS TO BUILDING STRUCTURE SHALL BE SECURED AS NOTED IN THE SPECIFICATIONS. HORIZONTAL RUNS OF METALLIC CONDUIT SHALL BE SUPPORTED AT INTERVALS OF NOT MORE THAN 10 FEET APART. RACEWAY RISERS SHALL BE SUPPORTED AT EACH FLOOR LEVEL. EXPOSED RACEWAYS SHALL RUN PARALLEL WITH OR AT RIGHT ANGLES TO WALLS.
- PANELS, JUNCTION BOXES AND PULL BOXES SHALL BE SUPPORTED INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON CONDUIT.
- ALL REQUIRED ACCESS DOORS SHALL BE FURNISHED UNDER THE ELECTRICAL SECTION AND INSTALLED UNDER GENERAL CONSTRUCTION. ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY THE ARCHITECT PRIOR TO INSTALLATION.
- HEIGHTS OF OUTLETS FROM FINISHED FLOOR TO CENTERLINE OF OUTLET SHALL BE AS SHOWN IN SPECIFICATIONS OR OTHERWISE DIRECTED BY ARCHITECT.
- NO ELECTRICAL RACEWAYS SHALL BE INSTALLED WITHIN 3 INCHES OF STEAM OR HOT WATER PIPES, OR APPLIANCES, EXCEPT FOR CROSSINGS WHERE RACEWAYS SHALL BE AT LEAST 1 INCH FROM PIPE COVER.
- HORIZONTAL OR CROSS RUNS IN PARTITIONS OR WALLS ARE NOT PERMITTED.
- CONDUIT ENDS SHALL BE CUT SQUARE AND REAM SMOOTH. MALE THREADS OF FIELD THREADED CONDUIT SHALL BE PAINTED WITH GRAPHITE BASED PIPE COMPOUND AND DRAWN UP TIGHT WITH CONDUIT COUPLINGS.
- CONDUIT TO MOTOR TERMINAL BOXES SHALL BE CONNECTED WITH "SEALTITE" FLEXIBLE CONDUIT; MINIMUM 18 INCHES IN LENGTHS WITH 50 PERCENT SLACK. RACEWAYS SHALL NOT BE TERMINATED IN, OR FASTENED TO MOTOR FOUNDATION.
- SUFFICIENTLY LONG WIRE SLACK SHALL BE LEFT IN RUNS TO PERMIT MAKING PROPER FINAL CONNECTIONS. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH #12 AWG STEEL DRAG WIRE.
- THE ELECTRICAL CONTRACTOR SHALL NOT INSTALL MORE THAN THE NUMBER OF CIRCUITS SHOWN IN ANY HOMERUN CIRCUIT.
- WIRE COLOR CODING SHALL CONFORM TO CODE REQUIREMENTS. WHERE COLOR-CODED CABLE IS NOT AVAILABLE, CERTIFY IN WRITING AND REQUEST PERMISSION FOR OVERLAP COLOR TAPING OF CONDUCTORS (MINIMUM LENGTH 6") IN ACCESSIBLE LOCATIONS. COLOR CODING, ONCE ESTABLISHED, MUST BE USED CONSISTENTLY FOR THE ENTIRE PROJECT.
- WIRING FOR ALL LOW VOLTAGE SYSTEMS SHALL BE RUN IN SPACES ABOVE CEILING. CABLE SHALL BE ADEQUATELY HARNESSSED, BUNDLED AND TIED AT 4 FOOT INTERVALS BY INDIVIDUAL SYSTEMS AND MARKED WITH IDENTIFICATION TAGS. ALL LOW VOLTAGE SYSTEM WALL OUTLETS SHALL HAVE 1" CONDUIT EXTENDED INTO HUNG CEILING. WHERE WIRING HAS TO BE EXPOSED, IT SHALL BE INSTALLED IN EMT CONDUIT. TERMINATION OF WIRING FROM HUNG CEILING TO CENTRAL OR MAIN CABINETS SHALL ALSO BE INSTALLED IN EMT CONDUIT. LOW VOLTAGE WIRING IN CEILINGS USED AS AIR PLENUM SHALL BE TEFLON COATED, IN NON-AIR PLENUM CEILINGS IT SHALL BE INSTALLED IN CONDUIT.

EXISTING CONDITION AND RELOCATION NOTES

- GENERALLY, IN AREAS SCHEDULED FOR DEMOLITION AND REMODELING, REMOVE ALL ELECTRICAL DEVICES SUCH AS LIGHTING FIXTURES, WIRING DEVICES, TELEPHONE BOXES, SPEAKERS, FIRE ALARM DEVICES, TELEVISION OUTLETS, DISCONNECT, MOTORS, ETC., THAT ARE LOCATED ON EXISTING WALLS OR PARTITIONS WHICH ARE TO BE DEMOLISHED. REMOVE EXPOSED PORTIONS OF THE BRANCH AND SIGNAL CIRCUIT WIRING AND CONDUITS AND BE RESPONSIBLE FOR MAINTAINING THE CONTINUITY OF EXISTING CIRCUITS FEEDING DEVICES THAT ARE TO REMAIN. MAINTAIN THE CONTINUITY OF EXISTING CIRCUITS SERVING OTHER SPACES BUT PASSING THROUGH THE AREA OF RENOVATION.
- ALL RACEWAYS AND FEEDERS SERVING PANEL BOARDS SCHEDULED FOR DEMOLITION SHALL BE REMOVED IN THEIR ENTIRETY BACK TO THEIR SOURCE. UPDATE PANEL SCHEDULES AND LABELS OF UPSTREAM PANEL BOARDS TO REFLECT DEMOLITION.
- CIRCUITS STILL IN USE WHICH ARE DERIVED FROM PANELS SCHEDULED TO BE DEMOLISHED SHALL BE REROUTED TO ALTERNATE PANELS. NOTIFY OWNER'S REPRESENTATION AND ARCHITECT FOR RECOMMENDATIONS.
- IN SUCH CASES WHERE EXISTING WALLS ARE TO REMAIN, EXPOSED RACEWAYS, SURFACE AND RECESSED OUTLET BOXES, ETC., WHICH ARE NOT TO BE REUSED SHALL BE COMPLETELY REMOVED. IN SUCH CASES, WHERE NEW CONDUITS AND OUTLETS ARE TO BE INSTALLED IN EXISTING WALLS, IN FINISHED ROOMS, THEY SHALL BE CONCEALED BY CUTTING AND PATCHING THE WALLS FOR THE CONDUITS AND OUTLET BOXES UNLESS OTHERWISE NOTED.
- CONDUITS OR SLEEVES, THAT ARE NO LONGER REQUIRED, WHICH ARE PROTRUDING THROUGH THE FLOOR SLAB, SHALL BE CUT BACK AND CAPPED. ALL FEEDERS TO BE REMOVED BACK TO PANEL BOARD.
- ELECTRICAL EQUIPMENT REMOVED SHALL BE RETURNED TO OWNER OR DISCARDED PER OWNER DIRECTIVE.
- REMOVE TELEPHONE AND DATA CABLES BACK TO CLOSET OF ORIGINATION. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER'S TELECOMMUNICATION DEPARTMENTS FOR THE DISCONNECTION AND REMOVAL LOW TENSION DEVICES.
- ELECTRICAL CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF EXISTING SYSTEM CIRCUITS FOR FIRE ALARM, POWER AND TELE COMMUNICATIONS, ETC., DURING DEMOLITION.
- THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL ABANDONED WIRING/CABLING NO LONGER IN USE FROM RACEWAYS.
- UTILIZE, WHENEVER POSSIBLE, PRACTICAL, AND APPROVED BY ARCHITECT, EXISTING OUTLET BOXES, ETC., COMPATIBLE WITH THE MATERIAL SPECIFIED FOR INSTALLATION IN THE NEW CONSTRUCTION AREAS. WHENEVER EXISTING RACEWAY SYSTEMS ARE UTILIZED, REMOVE ALL EXISTING WIRING. IN SUCH CASES, ALL ASSOCIATED CONDUITS AND WIRING SHALL BE ARRANGED TO ACCOMMODATE THE NEW CIRCUITING AS SHOWN ON THE DRAWING.
- THE ELECTRICAL DEMOLITION PLANS INDICATE GENERAL INTENT AND ARE NOT INTENDED TO SHOW ALL COMPONENTS AND ITEMS TO BE REMOVED OR RETAINED. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMISSION OF THEIR BID TO BECOME FAMILIAR WITH THE ACTUAL WORKING CONDITIONS AND EXTENT OF WORK. DEVICES AND EQUIPMENT LOCATED ON THE WALLS AND OR CEILINGS DESIGNATED TO BE REMOVED SHALL BE DISCONNECTED AND MADE SAFE. THE ELECTRICAL CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATION AND ARCHITECT OF ANY UNANTICIPATED OR HIDDEN CONDITIONS ENCOUNTERED DURING DEMOLITION.
- THE ELECTRICAL CONTRACTOR SHALL CIRCUIT TRACE AND LABEL ALL EXISTING BRANCH AND FEEDERS WITHIN OR ASSOCIATED WITH DEMOLITION SCOPE PRIOR TO DEENERGIZING AND DISCONNECTION. ALL CIRCUITS WITHIN PANELBOARDS, LOAD CENTERS, MOTOR CONTROL CENTERS AND SWITCHBOARDS, IDENTIFIED FOR REMOVAL SHALL BE TRACED AND FIELD LABELED TO ENSURE THAT NO AREA OUTSIDE THE SCOPE LIMIT IS AFFECTED.
- COORDINATE ALL TEL/DATA WIRING DEMOLITION WITH FIT INFORMATION SYSTEMS STAFF PRIOR TO THE START OF ANY DEMOLITION AFTER PROPERLY IDENTIFYING TEL/DATA WIRING. CABLES ARE TO BE COMPLETELY REMOVED FROM ALL TERMINATION INCLUDING JACKS, WALL PLATES AND PATCH PANELS.
- CONTRACTOR TO OPEN EXISTING CEILING AS REQUIRED FOR INSTALLATION OF NEW WORK OR REMOVAL/MODIFICATION OF EXISTING SYSTEMS AND EQUIPMENT. CEILINGS TO BE CLOSED UPON COMPLETION OF WORK.



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PROJECT:
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TURNSTILE INSTALLATION
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DRAWING TITLE:
ELECTRICAL
SYMBOL LIST, GENERAL NOTES
& ABBREVIATIONS

DOB NOW JOB#

SEAL & SIGNATURE: [Signature] DATE: 20211206
PROJECT No: 896938
DRAWING BY: KB
CHK BY: KB
DWG No:
E-001.00
SCALE: NONE | OF 4

NEW YORK CITY ENERGY CONSERVATION CODE
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 NEW YORK CITY ENERGY CONSERVATION CODE.



16.01 GENERAL REQUIREMENTS

- A. THIS SPECIFICATION AND DRAWINGS ARE INTENDED TO SERVE JOINTLY AS A BASIS UPON WHICH THE CONTRACTOR SHALL SUBMIT A CONTRACT PRICE FOR MATERIAL AND LABOR PROVISIONS.
- B. IT IS NOT INTENDED THAT THE PLANS OR SPECIFICATIONS SHOW OR STATE EVERY DETAILED REQUIREMENT OF THE WORK, BUT RATHER THAT THEY FURNISH ADEQUATE INFORMATION FOR AN EXPERIENCED CONTRACTOR TO MAKE A COMPLETELY ACCEPTABLE INSTALLATION. THE GENERAL CONDITIONS FROM A PART OF THESE SPECIFICATIONS WHETHER ATTACHED HERETO OR NOT, SHALL BE CAREFULLY EXAMINED BEFORE SUBMITTING A PROPOSAL. WHERE GENERAL CONDITIONS CLAUSES ARE REPEATED IN THIS SECTION, IT SHALL BE UNDERSTOOD AS CALLING SPECIAL ATTENTION TO THEM, OR AS A FURTHER QUALIFICATION, AND SHALL NOT BE ASSUMED AS OMITTING ANY OTHER CLAUSES. NO GENERAL CONDITIONS REFERRING TO THE WORK INCLUDED HEREIN SHALL BE CONSIDERED AS WAIVED UNLESS SPECIFICALLY STATED HEREIN.
- C. BEFORE SUBMITTING PROPOSAL, EXAMINE ALL PLANS RELATING TO THIS WORK, VERIFY ALL GOVERNING CONDITIONS AT THE SITE, BECOME FULLY INFORMED AS TO THE EXTENT AND CHARACTER OF THE WORK REQUIRED AND ITS RELATION TO THE WORK OF OTHER TRADES. SUBMISSION OF A COST PROPOSAL (BID) WILL BE JUDGED AS EVIDENCE THAT THE SITE EXAMINATION HAS BEEN MADE. NO CONSIDERATION WILL BE GRANTED FOR ANY ALLEGED MISUNDERSTANDING OF THE MATERIALS TO BE FURNISHED FOR WORK TO BE DONE, IT BEING UNDERSTOOD THAT THE SUBMISSION OF A PROPOSAL IS IN AGREEMENT TO ALL CONDITIONS REFERRED TO HEREIN OR INDICATED ON THE PLANS.
- D. PROPOSAL MUST INCLUDE EVERYTHING REQUIRED TO PROVIDE A COMPLETE INSTALLATION AS CONTEMPLATED IN A SPECIFICATIONS AND PLANS, WHETHER SPECIFICALLY SHOWN OR SPECIFIED OR NOT. INCLUDED ARE LABOR, MATERIALS, EQUIPMENT, LIGHTS, TOOLS, SCAFFOLDING, ETC., NECESSARY TO THE COMPLETE INSTALLATION OF EVERYTHING DESCRIBED, SHOWN OR REASONABLY IMPLIED.
- E. ANY DISCREPANCIES BETWEEN THESE SPECIFICATIONS AND THE ACCOMPANYING PLANS, OR THESE SPECIFICATIONS AND PLANS AND THE SPECIFICATIONS OF OTHER TRADES, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE SUBMISSION OF THE BID. FAILURE TO COMPLY WITH THE ABOVE SHALL ALLOW THE ARCHITECT TO MAKE A FINAL AND BINDING DECISION AT A LATER DATE AND NO ALLOWANCE WILL BE GIVEN IF THE MORE EXPENSIVE OF THE ITEM IN QUESTION IS SELECTED.
- F. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR HIS WORK WITH ITS COMPLETION AND FINAL ACCEPTANCE AND SHALL REPLACE ANY OF THE SAME WHICH MAY BE DAMAGED, LOST OR STOLEN, WITHOUT ANY ADDITIONAL COST TO THE OWNER.
- G. THE WORK CALLED FOR IN THESE PLANS AND SPECIFICATION SHALL BE COORDINATED WITH THE WORK OF ALL RELATED TRADES, AND SHALL BE SO ARRANGED THAT THERE WILL BE NO DELAY IN THE PROPER INSTALLATION AND COMPLETION OF ANY PART OR PARTS OF EACH RESPECTIVE WORK. WHEREIN IT MAY BE INTERRELATED WITH THIS CONTRACT ALL WORK CAN PROCEED IN ITS NATURAL SEQUENCE WITHOUT UNNECESSARY DELAY. THE CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL COST AND DELAYS IN THE WORK RESULTING FROM SUBSTITUTION UNDER THIS DIVISION, INCLUDING, BUT NOT LIMITED TO, ANY CHANGES, INDECISION, INSTALLATION, OR THE WORK OR OTHER TRADES.
- H. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC (EXCEPT WHERE DIMENSIONED) AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW ARCHITECTURAL, STRUCTURAL AND MANUFACTURERS SHOP DRAWINGS FOR GREATER ACCURACY. CONSULT ENGINEER IN CASE OF DOUBT OR CONFLICT. UNLESS NOTED, FIXED DIMENSIONS ARE BASED ON THE PRODUCT OF ONE MANUFACTURER, VERIFY DIMENSIONS WITH THE SHOP DRAWINGS OF THE MATERIALS ACTUALLY APPROVED OR PURCHASED.
- I. EXACT LOCATION OF ALL EQUIPMENT, PANELS, PULL BOXES, FEEDERS, FIXTURES, ETC., SHALL BE APPROVED BY THE ARCHITECT, AND OWNER PRIOR TO THE INSTALLATION OF THE SAME. J. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACCESSORIES TO FULFILL APPLICABLE CODES, REGULATIONS AND THE BEST PRACTICES OF THE TRADE FOR INSTALLATION OF ALL ELECTRICAL WORK.
- K. EXPOSED CONDUITS CAN BE INSTALLED BUT IN NO CASE SHALL BE INSTALLED LESS THAN NINE FEET ABOVE THE FINISHED FLOOR OR A NOTED. CONDUITS INSTALLED IN AREA WHERE HUNG CEILING OR OTHER FURRED SPACES ARE INDICATED SHALL BE INSTALLED CONCEALED. SHOULD ANY WORK REQUIRE SUBSEQUENT MODIFICATION OR RELOCATION TO AVOID INTERFERENCES OR CONFLICTS WITH OTHER WORK, SUCH CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.
- L. ANY NECESSARY ELECTRIC SERVICE INTERRUPTIONS SHALL BE AT A TIME CONVENIENT TO THE BUILDING OWNER.
- M. ALL PENETRATIONS THROUGH SLABS AND FIRE RATED PARTITIONS SHALL BE FIRE STOPPED USING APPROVED METHOD TO MAINTAIN THE FIRE RESISTANCE RATING.

- 16.02 SCOPE OF WORK
- A. WITHOUT INTENDING TO LIMIT AND/OR RESTRICT THE VOLUME OF WORK REQUIRED AND SOLELY FOR THE CONVENIENCE OF THE CONTRACTOR, THE WORK OF THIS DIVISION SHALL, IN GENERAL COMPRISE THE FOLLOWING:
1. REMOVAL OF ELECTRICAL SYSTEM AS REQUIRED AND AS INDICATED ON PLANS.
 2. MODIFICATION TO EXISTING ELECTRICAL SYSTEM, FURNISHING AND INSTALLING PANELBOARDS.
 3. FURNISHING AND INSTALLING NEW LIGHTING FIXTURES AND LAMPS.
 4. FURNISHING AND INSTALLING NEW CONDUITS, BRANCH CIRCUIT WIRING, ETC.
 5. FURNISHING AND INSTALLING NEW RACEWAYS, OUTLET BOXES, WIRING AND CONNECTIONS FOR LIGHTING FIXTURES, SWITCHES, RECEPTACLES AND LOW TENSION OUTLETS.
 6. CONNECTIONS TO ALL ELECTRICAL EQUIPMENT FURNISHED BY OTHER TRADES OR BY THE OWNER.
 7. POWER WIRING FOR ALL MOTORS, INCLUDING INSTALLING ALL REQUIRED DISCONNECT SWITCHES AND MOUNTING OF STARTERS.
 8. FURNISHING AND INSTALLING OF ALL TELEPHONE SYSTEM CONDUITS, SLEEVES AND BOXES.
 9. TEMPORARY LIGHT AND POWER.
 10. TESTING AND LOAD BALANCING.
 11. GROUNDING.
 12. REMOVAL AND RESTORATION OF EXISTING WORK.
 13. CUTTING, CHANNELING, AND PATCHING.

16.03 WORK NOT INCLUDED

- A. FURNISHING MOTORS, MOTOR STARTER AND CONTROL DEVICES CONNECTED TO EQUIPMENT FURNISHED UNDER OTHER DIVISIONS OF THE SPECIFICATIONS. HOWEVER, ELECTRICAL CONTRACTOR WILL ERECT AND WIRE SAME, FURNISH AND INSTALL AUXILIARY MOTOR DISCONNECTS AS REQUIRED BY DRAWINGS OR CODE.
- B. FINISH PAINTING.
- C. MOTOR CONTROL WIRING AND ELECTRICAL INTERLOCKS (U.O.N.).
- D. DATA/TELEPHONE WIRING AND DEVICES.

16.04 CODES PERMITS AND INSPECTIONS

- A. ELECTRICAL WORK SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE NEW YORK CITY ELECTRICAL CODES, OSHA CODE, AND OTHER AUTHORITIES EXERCISING JURISDICTION OVER ALL ELECTRICAL CONSTRUCTION WORK AND THE PROJECT.
- B. NOTHING CONTAINED IN THESE SPECIFICATIONS OR PLANS SHALL BE SO CONSTRUED AS TO CONFLICT WITH ANY LOCAL, MUNICIPAL, AND NATIONAL BOARD OF THE FIRE UNDERWRITERS REGULATIONS GOVERNING THE INSTALLATION OF WORK SPECIFIED HEREIN. ALL SUCH LAWS, ORDINANCES AND REGULATIONS, WHERE THEY APPLY TO THIS WORK, ARE HEREBY INCORPORATED INTO AND MADE A PART OF THE SPECIFICATIONS. ALL SUCH REQUIREMENTS SHALL BE SATISFIED AT NO ADDITIONAL EXPENSE TO THE OWNER.
- C. ALL REQUIRED PERMITS AND INSPECTION CERTIFICATES SHALL BE OBTAINED, PAID FOR, AND MADE AVAILABLE, AT THE COMPLETION OF THE WORK.

16.05 GUARANTEES AND CERTIFICATIONS

- A. ALL WORK SHALL BE GUARANTEED TO BE FREE FROM DEFECTS. DEFECTIVE MATERIALS OR WORKMANSHIP, AS WELL AS DAMAGE TO THE WORK OF ANY/ALL TRADES RESULTING FROM THE SAME, SHALL BE REPLACED OR REPAIRED AS DIRECT FOR THE DURATION OF ONE YEAR, FROM THE DATE OF ACCEPTANCE.
- B. THE DATE OF ACCEPTANCE SHALL BE THE DATE OF THE FINAL PAYMENT FOR THE WORK OR THE DATE OF A FORMAL NOTICE OF ACCEPTANCE, WHICHEVER IS EARLIER.
- C. NON-DURABLE ITEMS, SUCH AS ELECTRIC LAMPS, SHALL BE REPLACED UP TO THE DATE OF ACCEPTANCE, SUCH THAT THEY SHALL HAVE HAD NO MORE THAN 100 HOURS USE PRIOR TO THIS DATE.

16.06 SHOP DRAWINGS AND EQUIPMENT SUBMISSIONS

- A. PRIOR TO PURCHASING ANY EQUIPMENT OR MATERIALS, A LIST OF THEIR MANUFACTURERS SHALL BE SUBMITTED FOR APPROVAL.
- B. PRIOR TO ASSEMBLING OR INSTALLING THE WORK, CATALOG INFORMATION AND FACTORY ASSEMBLY DRAWINGS, AS REQUIRED FOR A COMPLETE EXPLANATION AND DESCRIPTION OF ALL FIXTURES, DEVICES AND ITEMS OF EQUIPMENT, SHALL BE SUBMITTED FOR APPROVAL.
- C. FIELD INSTALLATION DRAWINGS AS REQUIRED TO EXPLAIN FULLY ALL PROCEDURES INVOLVED IN ERECTING, MOUNTING AND CONNECTING ALL ITEMS OF EQUIPMENT.
- D. NO EQUIPMENT SHALL BE FABRICATED, DELIVERED, ERECTED OR RECONNECTED THAN FROM DRAWINGS APPROVED BY THE ENGINEER. SHOP DRAWINGS IN THE NUMBER DIRECTED SHALL BE SUBMITTED FOR THE FOLLOWING:
1. PANELBOARDS.
 2. LIGHTING FIXTURES.
 3. CIRCUIT BREAKERS.
 4. WIRING DEVICES AND PLATES.
- E. IT SHALL BE UNDERSTOOD THAT APPROVAL OF DRAWINGS WILL NOT BIND THE ENGINEER OR THE OWNER TO THE FINAL ACCEPTANCE OF SUCH EQUIPMENT AS THE COMPLETED INSTALLATION AND TEST OF EQUIPMENT AS A WHOLE MUST BE PROVIDED AND GUARANTEED HEREIN AS SPECIFIED.

16.07 SAMPLES

- A. UPON REQUEST BY ARCHITECT OR OWNER, SUBMIT FOR APPROVAL ONE SAMPLE OF EACH OF THE FOLLOWING:
1. EACH TYPE OF LIGHTING FIXTURE.
 2. EACH TYPE OF WIRING DEVICE.
 3. EACH TYPE OF WIRING DEVICE PLATE.
- 16.08 RECORD DRAWINGS
- A. REPRODUCIBLE RECORD DRAWINGS SHALL BE SUPPLIED BY THE CONTRACTOR UPON WHICH CORRECTIONS SHALL BE MADE TO PROVIDE AS ACCURATE AND COMPLETE RECORD OF THE WORK AS INSTALLED.

16.09 MOUNTING HEIGHTS

- A. HEIGHTS OF WALL MOUNTED OUTLETS AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE FOLLOWING (UNLESS OTHERWISE NOTED). DIMENSIONS ARE ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED).
1. OUTLETS (RECEPTACLE AND TELEPHONE) IN WALLS, PARTITIONS OR COLUMNS TO CENTER LINE : 1'-3" IF MOUNTED HORIZONTALLY AND 1'-6" IF MOUNTED VERTICALLY.
 2. SWITCH (TOGGLE) OUTLET IN WALLS, PARTITIONS OR COLUMNS - 3'-10" TO CENTER LINE.
 3. INDIVIDUAL MOTOR STARTER - 5'-0" TO CENTER LINE.
 4. FIRE ALARM PULL STATION - 3'-10" TO CENTER LINE.
 5. GROUP MOUNTED (MOTOR STARTERS OR DISTRIBUTION SYSTEM SWITCHING DEVICES) 6'-6" MAXIMUM TO CENTER LINE OF HIGHEST PUSHBUTTON OR SWITCHING DEVICE HANDLE REQUIRING MANUAL OPERATION, 1'-0" MINIMUM TO BOTTOM OF LOWEST ENCLOSURE.
 6. PANELBOARD - 6'-4" MAXIMUM TO CENTER LINE TO HIGHEST SWITCHING DEVICE HANDLE.
 7. MOUNTING HEIGHTS OF PENDANT MOUNTED LIGHTING FIXTURES SHALL BE AS DIRECTED IN THE FIELD BY THE ARCHITECT OR AS INDICATED ON ARCHITECTURAL DRAWINGS.
 8. DETAILS SHOWN ON ARCHITECTURAL DRAWINGS AND FIELD INSTRUCTIONS ISSUED BY THE ARCHITECT TAKE PRECEDENCE OVER THE ABOVE LIST AND SHALL BE ADHERED TO.

16.10 TESTS

- A. BEFORE AN APPLICATION FOR THE FINAL ACCEPTANCE OF THE WORK WILL BE CONSIDERED, ALL TESTS DEEMED NECESSARY BY THE ARCHITECT TO SHOW PROPER EXECUTION OF THE WORK SHALL HAVE BEEN PERFORMED AND COMPLETED IN THE PRESENCE OF AN ARCHITECT'S REPRESENTATIVE. SCHEDULE OF ALL TESTING PROCEDURES SHALL BE ARRANGED TO SUIT THE CONVENIENCE OF THE ARCHITECT.
- B. ANY DEFECTS OR DEFICIENCIES DISCOVERED IN ANY OF THE ELECTRICAL WORK SHALL BE CORRECTED.
- C. INSULATION RESISTANCE TESTS SHALL BE PERFORMED ON ALL RE-UTILIZED WIRING AND EQUIPMENT. MEASURED INSULATION RESISTANCE SHALL CONFORM TO REQUIREMENTS OF THE LATEST EDITION OF THE N.Y.C. ELECTRICAL CODE.

16.11 IDENTIFICATION

- A. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL TYPEWRITTEN DIRECTORIES BEHIND TRANSPARENT PLASTIC COVERS IN METAL FRAMES, IN ALL NEW AND EXISTING PANELS INDICATING TYPE AND LOCATION OF LOAD BEING SERVED BY INDIVIDUAL CIRCUIT BREAKERS.
- B. ALL PARTS OF EQUIPMENT, SUCH AS PANELS, JUNCTION BOXES, SAFETY SWITCHES MOTOR STARTER, CIRCUIT BREAKERS, CONDUCTORS AND SIMILAR ITEMS SHALL BE IDENTIFIED BY NAME, AT SUPPLY END, "LOAD SUPPLIED" AND AT LOAD END, "LOAD SUPPLIED FROM".
- 16.12 EQUIPMENT AND MATERIALS
- A. ALL EQUIPMENT AND MATERIALS FOR PERMANENT INSTALLATION SHALL BE THE PRODUCTS OF RECOGNIZED MANUFACTURERS AND SHALL BE NEW.
- B. NEW EQUIPMENT AND MATERIALS SHALL:
1. WHERE NORMALLY SUBJECTED TO UNDERWRITERS LABORATORY INC. LISTING OR LABELING SERVICES, BE SO LISTED OR LABELED.
 2. BE WITHOUT BLEMISH OR DEFECT.
 3. NOT TO BE USED FOR TEMPORARY LIGHT AND POWER PURPOSES WITHOUT ARCHITECT'S AUTHORIZATION.
 4. BE IN ACCORDANCE WITH THE LATEST APPLICABLE N.E.M.A. STANDARD.
 5. BE APPROVED BY BUILDING MANAGER OR OWNER.
- C. FOR ITEMS WHICH ARE TO BE INSTALLED BUT NOT PURCHASED AS PART OF THE ELECTRICAL WORK, THE ELECTRICAL WORK SHALL INCLUDE:
1. THE COORDINATION OF THEIR DELIVERY.
 2. THEIR FIELD MAKE-UP AND INTERNAL WIRING AS MAY BE NECESSARY FOR THEIR OPERATION.
- D. ELECTRICAL RACEWAY AND SUPPORTING SYSTEMS SHALL BE FURNISHED AND INSTALLED COMPLETE, WITH ALL MATERIALS, FITTINGS, CONNECTIONS AND ACCESSORIES NECESSARY TO PROVIDE IN EACH INSTANCE, A COMPLETE OPERATING INSTALLATION, AS DESCRIBED HEREIN, AND INDICATED ON THE DRAWINGS, AND/OR AS APPROVED BY BUILDING MANAGER OR OWNER.

16.13 WIRING MATERIALS

- A. WIRE AND CABLE SHALL BE COPPER, RATED FOR 600 VOLTS, TYPE XHHN OR XHHWN.
- B. WIRE #10 AWG AND SMALLER SHALL BE SOLID, WIRE #8 AWG AND LARGER SHALL BE SINGLE CONDUCTOR STRANDED.
- C. WIRING SHALL BE CONSISTENTLY COLOR CODED THROUGHOUT. RED, BLUE, BLACK FOR LINE (PHASE) CONDUCTORS AND WHITE FOR NEUTRAL CONDUCTOR. SWITCH LEG SHALL BE SEPARATELY IDENTIFIED. GROUND CONDUCTOR WHERE SPECIFIED SHALL BE GREEN.
- D. MINIMUM SIZE:
1. LIGHTING AND POWER: #12 AWG, UNLESS OTHERWISE INDICATED.
 2. CONTROL: #14 AWG.
 3. CIRCUIT OVER 75 FEET IN LENGTH FROM THE POINT OF SUPPLY TO THE FIRST OUTLET SHALL BE #10 AWG.
- E. SPLICES IN BRANCH CIRCUIT WORK SHALL BE MADE BY MEANS OF TYPE "R" "SCOTCHLOCK" CONNECTORS.
- F. ELECTRICAL INSULATION TAPE SHALL BE VINYL PLASTIC TYPE WITH PRESSURE ADHESIVE "SCOTCH" ELECTRICAL TYPE.
- G. ALL CONDUCTORS SHALL BE COLOR CODED THROUGHOUT AND NUMBERED AND TAGGED AT EACH JUNCTION BOX, PULL BOX, PANEL AND DEVICE WITH SUITABLE FIREPROOF TAGS OR ADHESIVE IDENTIFICATION BANDS.

16.14 CONDUITS AND RACEWAYS

- A. EXCEPT AS OTHERWISE INDICATED OR SPECIFIED, ALL WIRING INSIDE AND FOR FOUR FEET (4') BEYOND CONFINES OF ELECTRIC CLOSET SHALL BE INSTALLED IN EMT.
- B. LIQUID TIGHT FLEXIBLE, GALVANIZED STEEL CONDUIT, WITH CONTINUOUS COPPER BONDING CONDUCTOR, SHALL BE USED FOR CONNECTIONS, NOT EXCEEDING 18" IN LENGTH, TO MOTORS AND AT OTHER LOCATIONS WHERE VIBRATION, MOVEMENT OR OIL VAPOR ATMOSPHERES ARE ENCOUNTERED.
- C. UNLESS OTHERWISE INDICATED OR SPECIFIED, ALL WIRING SHALL BE INSTALLED CONCEALED IN CEILINGS, WALLS, SLABS, PIPE CHASES AND FURRED SPACES WHENEVER POSSIBLE.
- D. CONDUIT AND FITTINGS SHALL CONFORM TO LATEST ACCEPTABLE NEW YORK CITY CODE AND ALL OTHER CODES HAVING JURISDICTION.
- E. CONDUIT SHALL BE 3/4" TRADE SIZE MINIMUM, UNLESS OTHERWISE INDICATED OR SPECIFIED.
- F. ALL CONDUITS WHICH ARE TO REMAIN EMPTY FOR FUTURE INTRODUCTION OF CONDUCTORS SHALL BE PROVIDED WITH A #12 NYLON DRAG WIRE WITH IDENTIFICATION TAG AT BOTH ENDS.
- G. METAL CLAD CABLE (BX) CAN BE USED FOR LIGHTING AND APPLIANCE BRANCH CIRCUITRY IN VOIDS OF CEILING AND PARTITIONS, PROVIDED THAT THIS TYPE OF WIRING IS ACCEPTABLE TO THE BUILDING OWNER OR HIS REPRESENTATIVE, AND IN COMPLIANCE WITH GOVERNING ELECTRICAL CODE. VERIFY ALL OF THE ABOVE PRIOR TO SUBMITTAL OF BID PROPOSAL.

16.15 JUNCTION BOXES

- A. JUNCTION BOX AND PULL BOXES SHALL BE PROVIDED WHERE INDICATED OR SPECIFIED AND WHERE NECESSARY TO FACILITATE THE INSTALLATION OF EQUIPMENT OR WIRING.

16.16 OUTLET BOXES

- A. EACH OUTLET FOR LIGHTING FIXTURE, WALL SWITCH, WALL RECEPTACLE, TELEPHONE OR OTHER USE SHALL BE PROVIDED WITH AN OUTLET BOX SUITABLE FOR THE USE FOR WHICH THE OUTLET IS TO BE PUT AND TO THE LOCATION IN WHICH IT OCCURS, SECURED FIRMLY IN PLACE AND SET TRUE AND SQUARE WITH THE FINISHED SURFACE.
- B. CONNECTION TO RECESSED CEILING FIXTURES SUPPLIED WITH PIGTAILS MAYBE ARRANGED SO THAT MORE THAN ONE BUT NOT MORE THAN FOUR, SUCH FIXTURES ARE CONNECTED INTO A SINGLE OUTLET BOX. NO FIXTURE SHALL BE SUPPLIED FROM AN OUTLET IN ANOTHER ROOM.
- C. THROUGH WALL BOXES FOR BACK TO BACK WIRING NOT PERMITTED.
- D. WHERE MORE THAN ONE WIRING DEVICE IS MOUNTED IN THE SAME LOCATION, SUCH DEVICE SHALL BE GANG MOUNTED UNDER A COMMON FACEPLATE.

16.17 FASTENINGS, SUPPORTS, AND HANGERS

- A. ALL PARTS OF THE ELECTRICAL INSTALLATION SHALL BE ADEQUATELY SUPPORTED FROM THE BUILDING CONSTRUCTION USING APPROVED CLAMP SCREWS WITH THE INSERTS OF EXPANSION ANCHORS, EXPANSION BOLTS AND TOGGLE BOLTS * IN NO CASE SHALL THE HUNG CEILING MEMBERS OR WIRES BE USED TO SUPPORT CONDUIT*.
- B. ALL FASTENING, SUPPORTS, CLAMPS, ANCHORS, AND SIMILAR ITEMS SHALL BE OF TYPE SUITABLE FOR THE PURPOSE.

16.18 WIRING DEVICES

- A. ALL DEVICES SHALL BE SPECIFICATION GRADE, U.L. APPROVED.
- B. SINGLE POLE SWITCH, 20 AMP, 125 VOLTS.
- C. DUPLEX RECEPTACLE, 20 AMP, 2 POLE, 3 WIRE, 125 VOLT, GROUND TYPE.
- D. SINGLE RECEPTACLE, 20 AMP, 2 POLE, 3 WIRE, 125 VOLTS, GROUNDING TYPE, GFI WHERE REQUIRED.
- E. COLOR AND TYPE OF ALL DEVICE PLATES SHALL BE APPROVED BY ARCHITECT PRIOR TO PURCHASE/INSTALLATION.

16.19 PANELBOARD AND CABINETS

- A. EACH PANELBOARD SHALL BE PLACED IN A SUITABLE CODE GAUGE STEEL ENCLOSED BOX, BONDZERED AND FINISHED WITH PRIME COAT AND A FINISHED COAT OF LIGHT GRAY BAKED ENAMEL.
- B. MAIN BUS BARS INCLUDING FULL CAPACITY NEUTRAL WHERE INDICATED SHALL HAVE AN AMPERE RATING NOT LESS THAN THAT OF THE MAIN BREAKER OR LUGS.
- C. DISTRIBUTION EQUIPMENT SHALL BE BRACED TO WITHSTAND THE AVAILABLE SHORT CIRCUIT CURRENT.

16.20 CIRCUIT BREAKERS

- A. CIRCUIT BREAKERS FOR PANEL OR INDIVIDUAL MOUNTING SHALL BE MOLDED CASE TYPE, BOLTED TYPE, QUICK-MAKE, QUICK-BREAK MANUAL OR AUTOMATIC OPERATION.
- B. AMPERE RATING AND NUMBER OF POLES SHALL BE AS INDICATED ON THE DRAWINGS.
- C. BREAKERS SHALL BE TYPE "ET" AS MANUFACTURED BY I.T.E. CIRCUIT BREAKER CO. OR APPROVED EQUAL. MINIMUM CIRCUIT BREAKER INTERRUPTING CAPACITY SHALL BE 22,000 SYM RMS AMPERES.

16.21 SAFETY SWITCHES

- A. SAFETY SWITCHES SHALL BE OF SIZE NOTED ON THE DRAWING, OR AS REQUIRED, FUSIBLE OR NON FUSIBLE AND EACH CONTAINED IN A GENERAL PURPOSE NEMA 1 ENCLOSURE. ALL SWITCHES SHALL BE HEAVY DUTY TYPE AND SHALL HAVE QUICK-MAKE, QUICK-BREAK MECHANISM.
- B. ALL SWITCHES SHALL BE OF PROPER HORSEPOWER RATING AS APPLICABLE AND HAVE DUAL INTERLOCKS DESIGNED TO INTERLOCK THE SWITCH BOX DOOR WITH THE SWITCH OPERATING MECHANISM.

16.22 GROUNDING

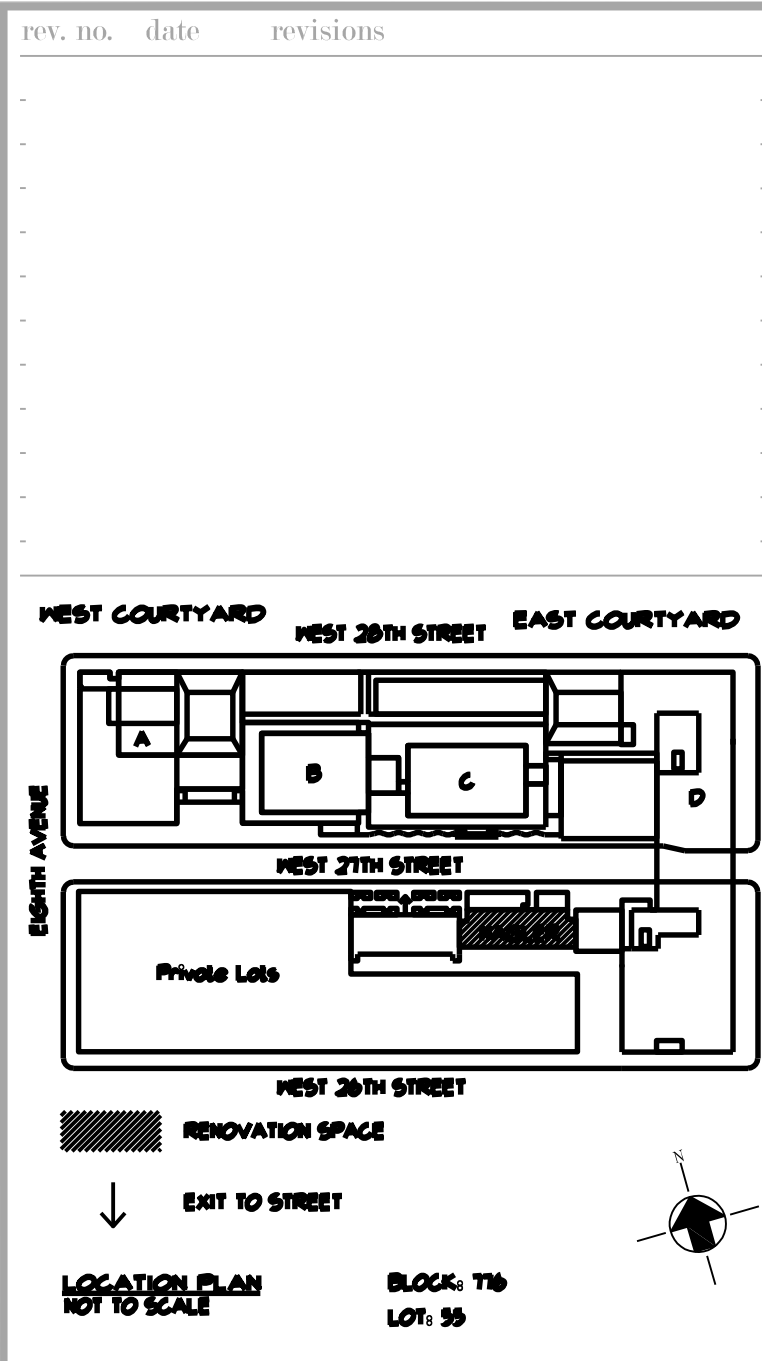
- A. ALL ENCLOSURES AND OTHER NON CURRENT CARRYING METALLIC PARTS OF ELECTRICAL EQUIPMENT, RACEWAY SYSTEMS AND EQUIPMENT GROUND BUSES SHALL BE EFFECTIVELY GROUNDED TO THE BUILDING GROUNDING SYSTEMS THROUGH THE SYSTEM GROUND CONDUCTORS. METALLIC CONDUITS AND OTHER RACEWAYS AND ENCLOSURES FOR CONDUCTORS SHALL BE METALLICALLY JOINED TOGETHER INTO A CONTINUOUS ELECTRICAL CONDUCTOR, AS TO PROVIDE EFFECTIVE ELECTRICAL CONTINUITY.
- B. EQUIPMENT LOCATED REMOTELY FROM THE GROUND CONDUCTORS SHALL BE GROUNDED TO THE NEAREST AVAILABLE COLD WATER PIPING. MOTOR FRAMES SHALL BE GROUNDED THROUGH THEIR CONDUITS.
- C. GROUND CONTINUITY SHALL BE MAINTAINED THROUGHOUT.

16.23 LIGHTING FIXTURES

- A. ALL LIGHTING FIXTURES SHALL COMPLY WITH NYC ELECTRICAL CODE AND SHALL BE U.L. APPROVED.
- B. ALL LIGHTING FIXTURES SHALL BE APPROVED PRIOR TO PURCHASE.
- C. ALL LIGHTING FIXTURES SHALL BE FURNISHED AND INSTALLED COMPLETE WITH NECESSARY COMPONENTS, ACCESSORIES AND LAMPS OF CORRECT TYPE AND RATING, AS INDICATED ON ARCHITECT DRAWINGS.
- D. FIXTURES SHALL BE CAREFULLY SUPPORTED AND ALIGNED WITH NECESSARY HANGERS, SUPPORTING MEMBERS AND PLASTER FRAMES FOR PROPER INSTALLATION, ALL AS REQUIRED AND AS APPROVED.
- E. ALL FIXTURES SHALL BE PROPERLY WIRED AND CONNECTED TO BRANCH CIRCUITS, TESTED AND LEFT READY FOR OPERATION.
- F. FOR TYPE, MAKE AND QUANTITIES OF LIGHTING FIXTURES REQUIRED SEE ARCHITECT'S DRAWINGS AND SPECIFICATIONS.
- G. FIXTURES AND/OR FIXTURE OUTLET BOXES SHALL BE PROVIDED WITH HANGERS TO ADEQUATELY SUPPORT THE COMPLETE WEIGHT OF THE FIXTURE.
- H. ALL FLUORESCENT LIGHTING FIXTURES SHALL HAVE ENERGY SAVING LAMPS AND ELECTRONIC BALLASTS.
- I. EXIT LIGHTS SHALL BE WIRED ON A SEPARATE CIRCUIT. PROVIDE CIRCUIT BREAKER WITH LOCKING TYPE HANDLE.
- J. ALL LIGHTING FIXTURES ARE SPECIFIED BY ARCHITECT. REFER TO ARCHITECT'S PLANS AND SPECIFICATIONS FOR MODEL TYPES.

16.24 DATATELEPHONE EMPTY RACEWAYS SYSTEM

- A. PROVIDE TELEPHONE TERMINAL CABINET OR PUNCH BLOCK, CONDUIT, OUTLETS, BOXES, ETC. FOR A COMPLETE EMPTY CONDUIT SYSTEM AS CALL FOR ON DRAWINGS OR REQUIRED BY THE SYSTEM VENDOR.
- B. PROVIDE MOUNTING HARDWARE FOR OWNER FURNISHED PATCH PANELS.
- C. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH DRAG WIRE.
- D. PLYWOOD BACKBOARD SHALL BE 3/4" THICK, MINIMUM SIZE 8' X 4'.
- E. CONDUIT SHALL BE MINIMUM 3/4" AND SHALL BE EXTENDED FROM OUTLETS UP TO 4' ABOVE HUNG CEILING AND TERMINATED WITH PLASTIC BUSHING, IN AREA WITHOUT HUNG CEILING USE SURFACE MOUNTED CONDUIT WITH HOMERUN TO TELEPHONE CLOSET AS FOLLOWS: 1'-1/4" UP TO THE FIRST OUTLET, 1" - TO THE SECOND AND 3/4" TO THE THIRD.



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PROJECT:
NAGLER RESIDENCE HALL
TURNSTILE INSTALLATION
220 WEST 27th STREET,
NEW YORK, NY 10001

DRAWING TITLE:
ELECTRICAL
SPECIFICATIONS

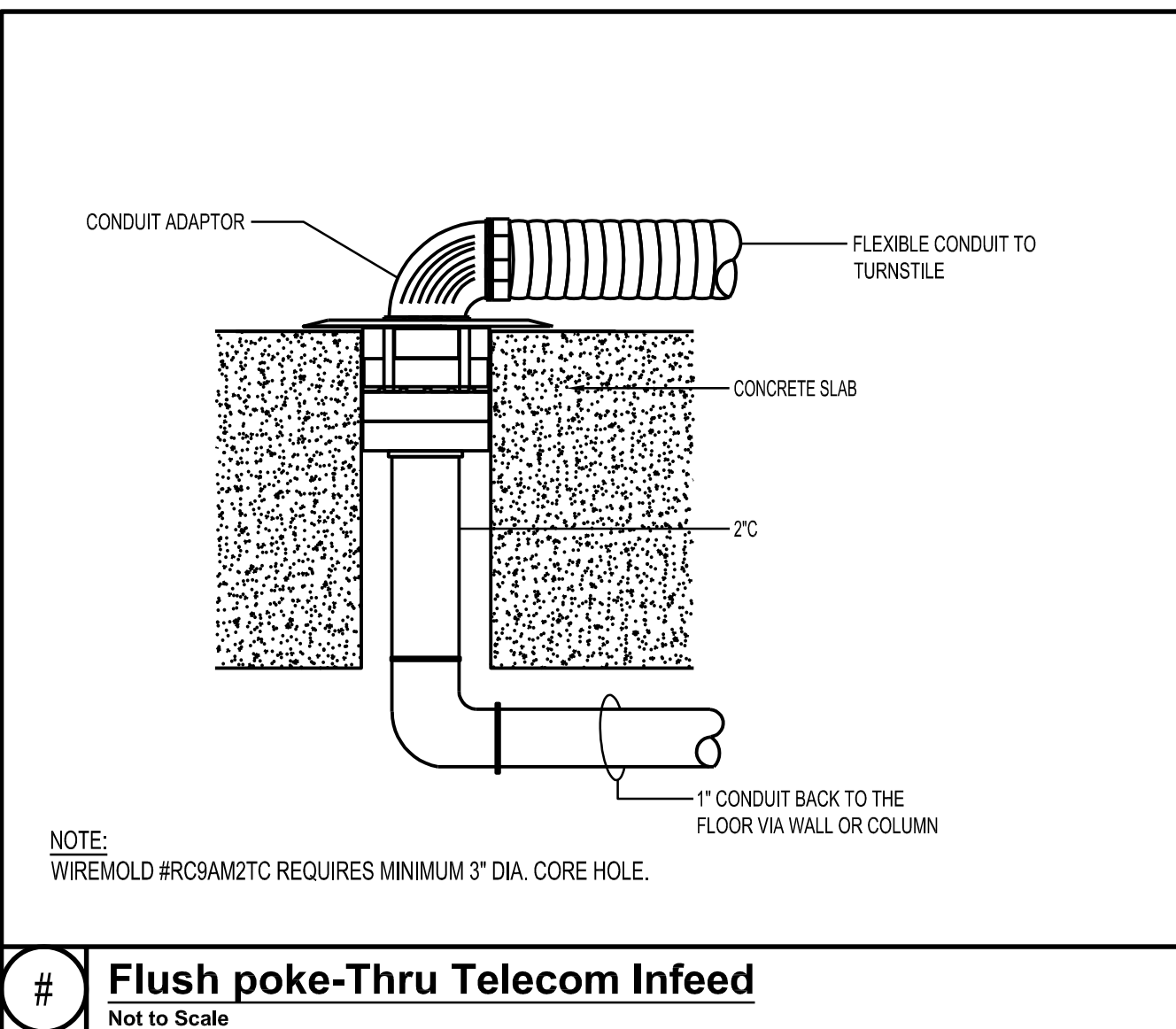
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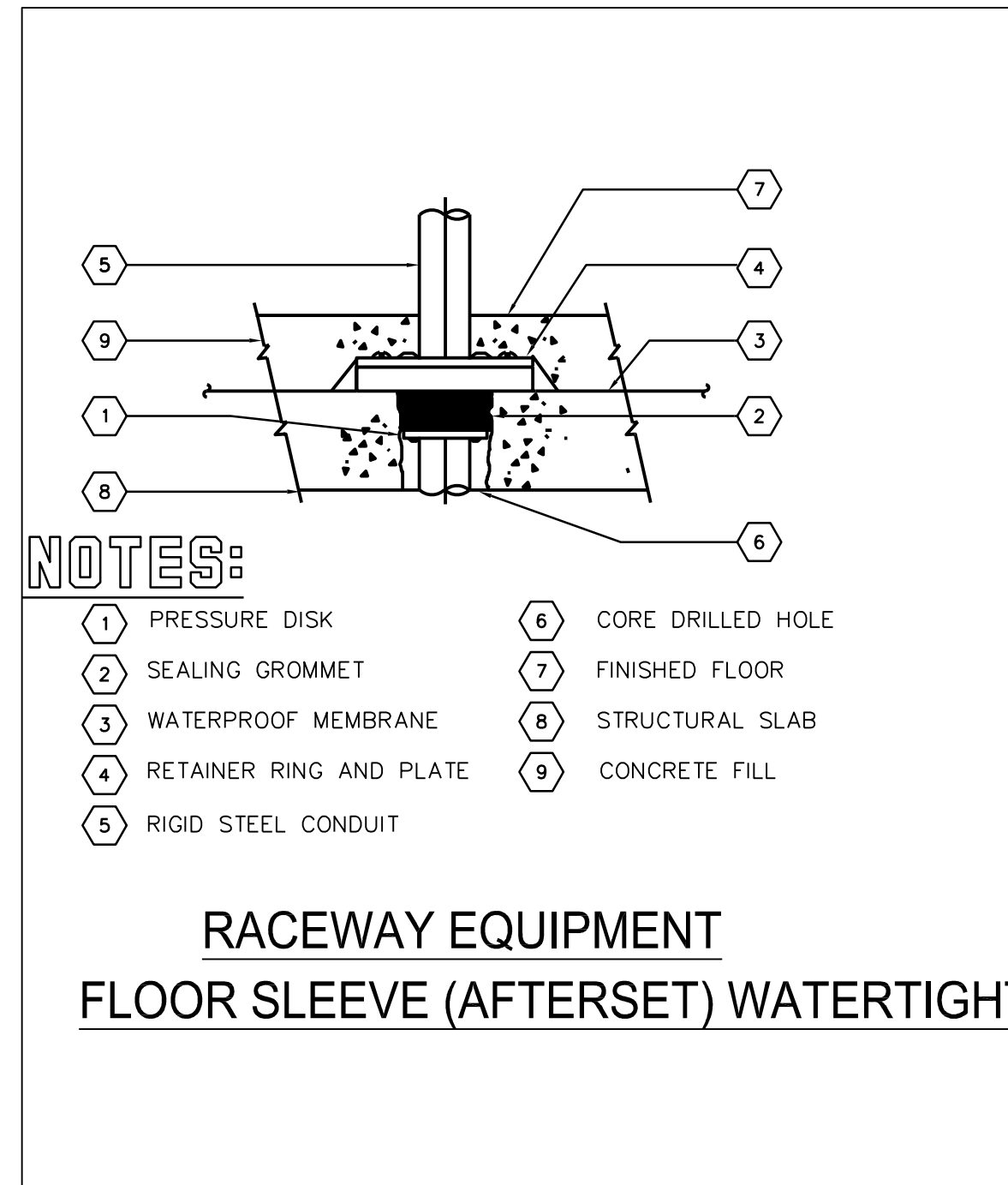
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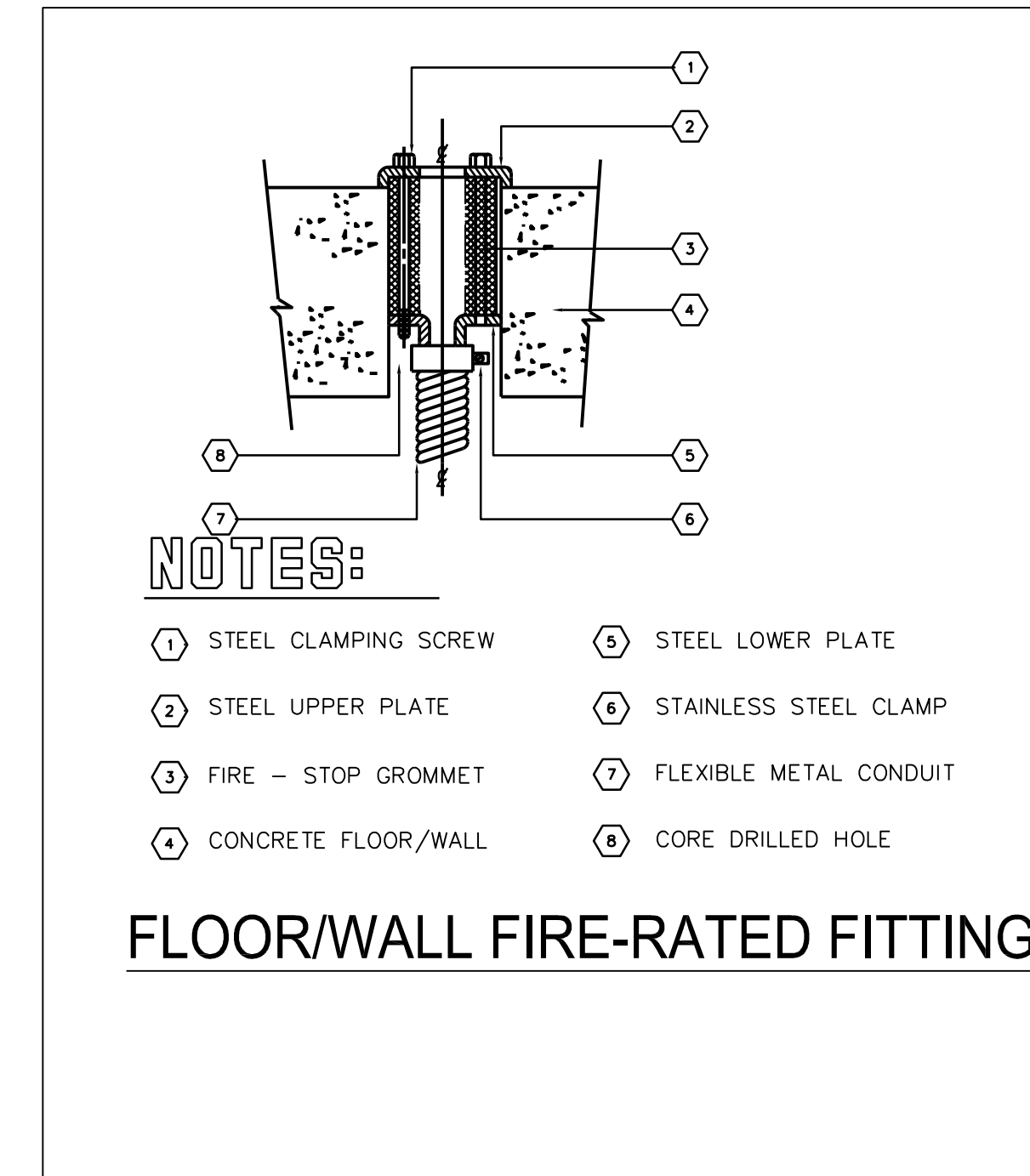
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NOTES:

- 1 PRESSURE DISK
- 2 SEALING GROMMET
- 3 WATERPROOF MEMBRANE
- 4 RETAINER RING AND PLATE
- 5 RIGID STEEL CONDUIT
- 6 CORE DRILLED HOLE
- 7 FINISHED FLOOR
- 8 STRUCTURAL SLAB
- 9 CONCRETE FILL

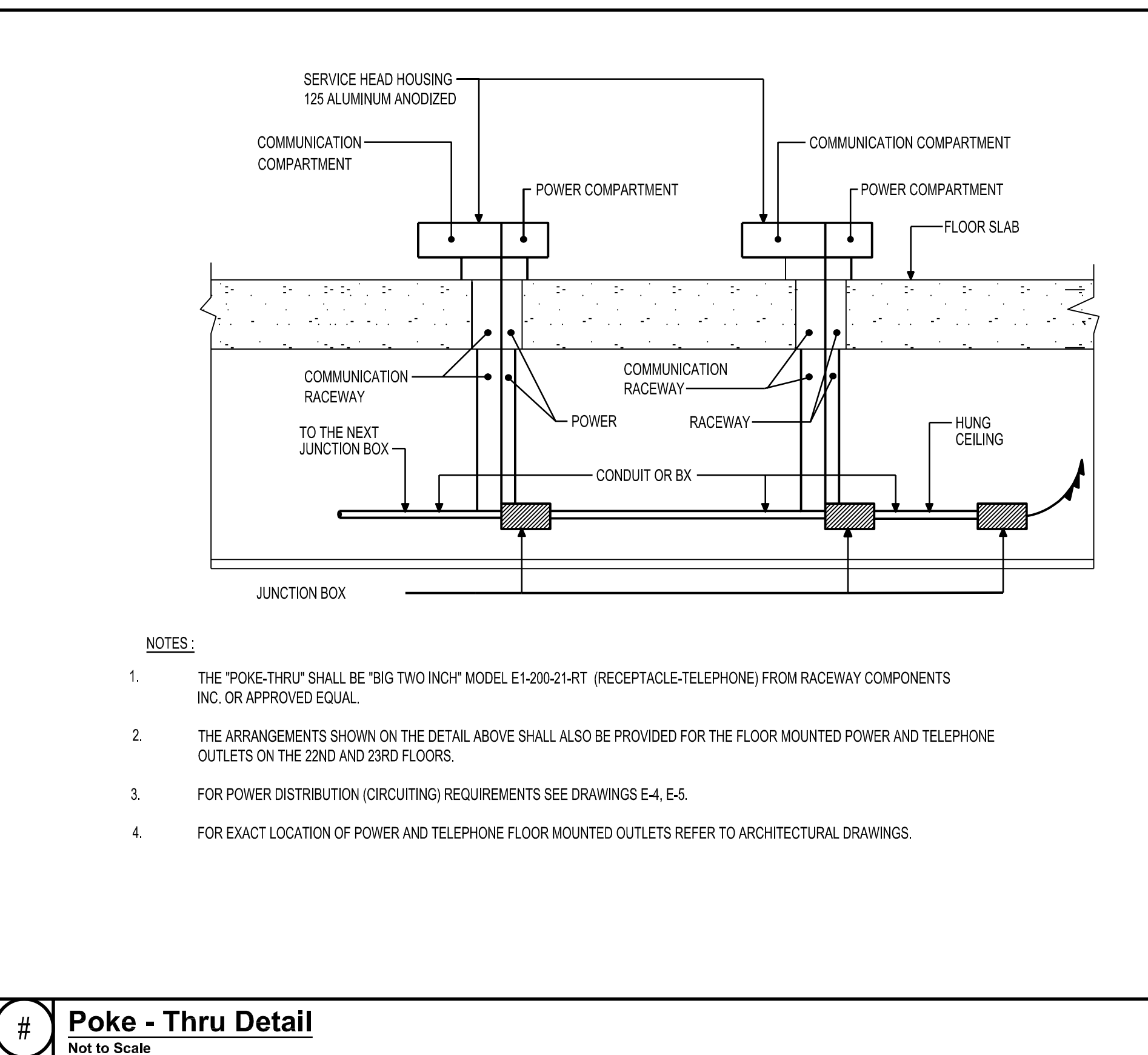
**RACEWAY EQUIPMENT
FLOOR SLEEVE (AFTERSSET) WATERTIGHT**



NOTES:

- 1 STEEL CLAMPING SCREW
- 2 STEEL UPPER PLATE
- 3 FIRE - STOP GROMMET
- 4 CONCRETE FLOOR/WALL
- 5 STEEL LOWER PLATE
- 6 STAINLESS STEEL CLAMP
- 7 FLEXIBLE METAL CONDUIT
- 8 CORE DRILLED HOLE

FLOOR/WALL FIRE-RATED FITTING



- NOTES:**
1. THE "POKE-THRU" SHALL BE "BIG TWO INCH" MODEL E1-200-21-RT (RECEPTACLE-TELEPHONE) FROM RACEWAY COMPONENTS INC. OR APPROVED EQUAL.
 2. THE ARRANGEMENTS SHOWN ON THE DETAIL ABOVE SHALL ALSO BE PROVIDED FOR THE FLOOR MOUNTED POWER AND TELEPHONE OUTLETS ON THE 22ND AND 23RD FLOORS.
 3. FOR POWER DISTRIBUTION (CIRCUITING) REQUIREMENTS SEE DRAWINGS E-4, E-5.
 4. FOR EXACT LOCATION OF POWER AND TELEPHONE FLOOR MOUNTED OUTLETS REFER TO ARCHITECTURAL DRAWINGS.

Poke - Thru Detail
Not to Scale

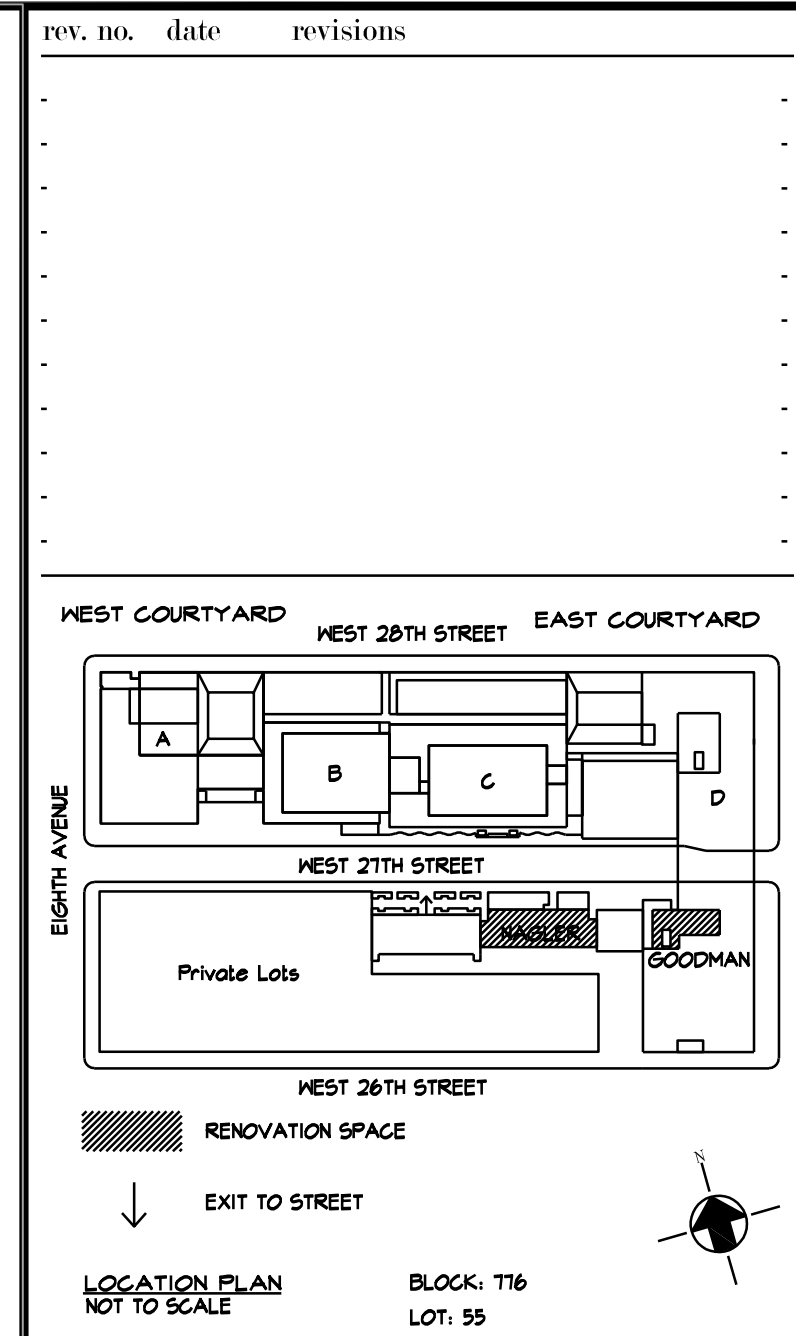
PANEL:AP-CA (EXISTING-NAGLER)

MINIMUM AIC:	X	M.C.B. =	200% RATED NEUTRAL BUS									
FED FROM:	M.L.O.		FEED THRU PANEL									
MAIN BUS:	100 AMPS	X	SURFACE									
LOCATION:	PENTHOUSE MER		FLUSH									
			EQUIPMENT GND BUS									
			ISOLATED GROUND									
208 /120V, 3 PHASE, 4 WIRE												
CKT/BKR	KVA/PHASE			CKT/BKR								
#	POLE	TRIP	LOAD DESCRIPTION	VA	A	B	C	VA	LOAD DESCRIPTION	TRIP	POLE	#
1	1		EXISTING	-				-	EXISTING	-	1	2
3	1		EXISTING	-				-	EXISTING	-	1	4
5	1		EXISTING	-				-	EXISTING	-	1	6
7	1		EXISTING	-				-	EXISTING	-	1	8
9	1		EXISTING	-				-	EXISTING	-	1	10
11	1		EXISTING	-				-	EXISTING	-	1	12
13	1		EXISTING	-				-	EXISTING	-	1	14
15	1		EXISTING	-				-	EXISTING	-	1	16
17	1		EXISTING	-				-	EXISTING	-	1	18
19	1		EXISTING	-				-	RECEPTACLE (DESK)	20	1	20
21	1		EXISTING	-				-	EXISTING	-	1	22
23	1		EXISTING	-				-	EXISTING	-	1	24
25	1		EXISTING	-				-	EXISTING	-	1	26
27	1		SPACE	-				-	EXISTING	-	1	28
29	1		SPACE	-				-	EXISTING	-	1	30
CONNECTED KVA												
TOTAL CONNECTED KVA												
CONNECTED AMPS												
TOTAL CONNECTED AMPS												

PANEL:ELP-E1F (EXISTING)

MINIMUM AIC:	X	M.C.B. =	200% RATED NEUTRAL BUS									
FED FROM:	M.L.O.		FEED THRU PANEL									
MAIN BUS:	100 AMPS	X	SURFACE									
LOCATION:	SERVICE RM- CELLAR		FLUSH									
			EQUIPMENT GND BUS									
			ISOLATED GROUND									
208 /120V, 3 PHASE, 4 WIRE												
CKT/BKR	KVA/PHASE			CKT/BKR								
#	POLE	TRIP	LOAD DESCRIPTION	VA	A	B	C	VA	LOAD DESCRIPTION	TRIP	POLE	#
1	1		EXISTING	-				-	EXISTING	-	1	2
3	1		EXISTING	-				-	EXISTING	-	1	4
5	1		EXISTING	-				-	EXISTING	-	1	6
7	1		EXISTING	-				-	EXISTING	-	1	8
9	1		EXISTING	-				-	EXISTING	-	1	10
11	1		EXISTING	-				-	EXISTING	-	1	12
13	1		EXISTING	-				-	EXISTING	-	1	14
15	1		EXISTING	-				-	EXISTING	-	1	16
17	1		EXISTING	-				-	EXISTING	-	1	18
19	1		EXISTING	-				-	EXISTING	-	1	20
21	1		EXISTING	-				-	EXISTING	-	1	22
23	1		EXISTING	-				-	TURNSTILES-XFRMR	20	1	24
25	1		EXISTING	-				-	EXISTING	-	1	26
27	1	20	SPACE	-				-	EXISTING	-	1	28
29	1	20	SPACE	-				-	EXISTING	-	1	30
CONNECTED KVA												
TOTAL CONNECTED KVA												
CONNECTED AMPS												
TOTAL CONNECTED AMPS												

NEW YORK CITY ENERGY CONSERVATION CODE
TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 NEW YORK CITY ENERGY CONSERVATION CODE.



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PROJECT:
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TURNSTILE INSTALLATION
220 WEST 27TH STREET,
NEW YORK, NY 10001**

DRAWING TITLE:
**ELECTRICAL
DETAILS
& SCHEDULES**

DOB NOW JOB#

SEAL & SIGNATURE: _____ DATE: 20210206
PROJECT No: 896938
DRAWING BY: KB
CHK BY: KB
DWG No: _____
E-300.00
SCALE: NONE - OF -

SYMBOL LIST

SYMBOL	DESCRIPTION
	FIRE ALARM SYSTEM DEVICES
	FIRE ALARM SYSTEM SPEAKER
	FIRE ALARM SYSTEM SPEAKER/STROBE
	FIRE ALARM SYSTEM STROBE, WALL MOUNTED
	FIRE ALARM SYSTEM GONG, WALL MOUNTED
	FIRE ALARM SYSTEM MANUAL PULL STATION
	FIRE ALARM SYSTEM SMOKE DETECTOR, "EL" - ELEVATOR
	FIRE ALARM SYSTEM COMBINATION SMOKE/CARBON MONOXIDE DETECTOR WITH SOUNDER BASE
	FIRE ALARM SYSTEM SMOKE DETECTOR, MONITORING AND CONTROL MODULE. PROVIDE WIRING BETWEEN MONITORED OR/AND MODULE. "d" - DUCT, "s" - SUPPLY SIDE, "r" - RETURN SIDE. NOTE: ALL MODULES AND DUCT DETECTORS SHALL BE INSTALLED BELOW THE ROOF LINE OR INSTALLED IN WEATHERPROOF HEATED NEMA ENCLOSURES PAINTED RED AND PROPERLY LABELED.
	FIRE ALARM SYSTEM CARBON MONOXIDE DETECTOR
	FIRE ALARM SYSTEM HEAT DETECTOR
	SPRINKLER ALARM SYSTEM WATER FLOW SWITCH AND MONITORING MODULE. PROVIDE WIRING BETWEEN MONITORED OR/AND MODULE.
	SPRINKLER ALARM SYSTEM TAMPER SWITCH AND MONITORING MODULE. PROVIDE WIRING BETWEEN MONITORED OR/AND MODULE.
	FIRE COMMAND STATION
	FIRE ALARM SYSTEM REMOTE ANNUNCIATOR
	FIRE ALARM SYSTEM FUSE CUTOUT
	FIRE ALARM SYSTEM REMOTE DATA GATHERING PANEL (TRANSPONDER)
	EMERGENCY GENERATOR ANNUNCIATOR PANEL
	FIRE ALARM SYSTEM PRINTER
	AMTRAK EQUIPMENT CONTROL
	FIRE ALARM INTERFACE FOR FIRE/SMOKE DAMPER, MONITORING AND CONTROL MODULE. PROVIDE WIRING BETWEEN DEVICE BEING MONITORED OR/AND MODULE.
	FIRE WARDEN STATION
	REMOTE LED INDICATOR FOR DUCT DETECTOR.
	FIRE ALARM LINE VOLTAGE RELAY FOR EQUIPMENT CONTROL. POWER FROM LINE SIDE OF EQUIPMENT STARTER/CONTACTOR.
	FIRE ALARM AUTOMATIC POWER SUPPLY PANEL
	JUNCTION BOX
	LED FIRE ALARM SYSTEM SMOKE DETECTOR REMOTE HEAD
	FIRE ALARM SYSTEM CONTROL AND MONITORING MODULE
	FIRE ALARM SYSTEM MONITORING MODULE
	FIRE ALARM SYSTEM SMOKE DETECTOR, "SP" - STAIR PRESSURIZATION
	FUSED CUT OUT PANEL
	ELEVATOR CONTROL PANEL
	ARCS/DRC PANEL

ABBREVIATIONS

	DESCRIPTION
CL	CLOSET
DN	DOWN
E	EXISTING
ER	EXISTING TO REMAIN
ETR	EXISTING TO BE RELOCATE
ELEV	ELEVATOR
EMR	ELEVATOR MACHINE ROOM
FSD	FIRE SMOKE DAMPER
FDS	FIRE ALARM DISCONNECT
JB	JUNCTION BOX
UON	UNLESS OTHERWISE NOTED
SD	SMOKE DAMPER
ST	STAIR
R	RELOCATED
TL	TOILET
WP	WEATHER-PROOF

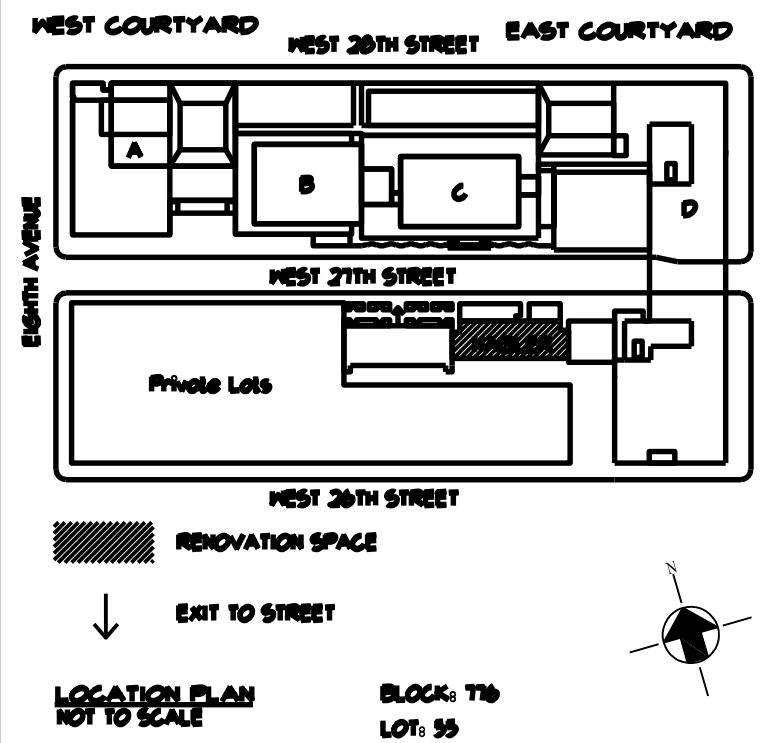
GENERAL NOTES

- THE GENERAL NOTES APPLY TO ALL DRAWINGS UNDER THIS CONTRACT. REFER TO INDIVIDUAL DRAWINGS FOR ADDITIONAL NOTES.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. FOLLOW DRAWINGS IN LAYING OUT WORK. MAINTAIN HEADROOM AND SPACE CONDITIONS CONSISTENT WITH PROJECT CRITERIA.
- JUNCTION AND PULL BOXES SHALL GENERALLY BE LOCATED FOR FLUSH MOUNTING IN FINISHED SPACES. WHERE NECESSARY, CONDUIT SHALL BE REROUTED OR OTHER ARRANGEMENTS SHALL BE MADE FOR CONCEALMENT. PULL BOXES SHALL BE PROVIDED AS INDICATED AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE AND COORDINATE LOCATION WITH OTHER TRADES. COVERS OF JUNCTION AND PULL BOXES SHALL BE ACCESSIBLE.
- ALL SUPPORTS TO BUILDING STRUCTURE SHALL BE SECURED AS NOTED IN THE SPECIFICATIONS. HORIZONTAL RUNS OF METALLIC CONDUIT SHALL BE SUPPORTED AT INTERVALS OF NOT MORE THAN 10 FEET APART. RACEWAY RISERS SHALL BE SUPPORTED AT EACH FLOOR LEVEL. EXPOSED RACEWAYS SHALL RUN PARALLEL WITH OR AT RIGHT ANGLES TO WALLS.
- JUNCTION BOXES AND PULL BOXES SHALL BE SUPPORTED INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON CONDUIT.
- ALL REQUIRED ACCESS DOORS SHALL BE FURNISHED UNDER THIS CONTRACT.
- NO RACEWAYS SHALL BE INSTALLED WITHIN 3 INCHES OF STEAM OR HOT WATER PIPES, OR APPLIANCES, EXCEPT FOR CROSSINGS WHERE RACEWAYS SHALL BE AT LEAST 1 INCH FROM PIPE COVER.
- CONDUIT ENDS SHALL BE CUT SQUARE AND REAM SMOOTH. MALE THREADS OF FIELD THREADED CONDUIT SHALL BE PAINTED WITH GRAPHITE BASED PIPE COMPOUND AND DRAWN UP TIGHT WITH CONDUIT COUPLINGS.
- WIRE COLOR CODING SHALL CONFORM TO CODE REQUIREMENTS.
- IN UNFINISHED PORTIONS OF THE BUILDING, SUCH AS BOILER ROOM, FAN ROOMS, PIPE SPACES, ETC., LOCATIONS OF CONDUIT ARE APPROXIMATE AND SHALL CLEAR PIPING AND ALL OTHER CONSTRUCTION. CONDUITS IN THESE PORTIONS OF THE BUILDING SHALL BE RUN EXPOSED.
- IN THE BOILER ROOM, CONDUITS SHALL NOT BE RUN OVER BOILERS.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL CEILING WORK WITH AND DETERMINE CEILING TYPE PRIOR TO FURNISHING OF SMOKE DETECTORS, OR ANY OTHER CEILING MOUNTED ELECTRICAL ELEMENTS. ELECTRICAL WORK SHALL ALSO BE COORDINATED WITH LOCATION OF DIFFUSERS, SPRINKLERS AND OTHER MECHANICAL WORK.
- ALL OUTLET BOXES RECEIVING 1-1/4" CONDUIT SHALL BE A MINIMUM OF 2-1/2" DEEP.
- SUFFICIENTLY LONG WIRE SLACK SHALL BE LEFT IN RUNS TO PERMIT MAKING PROPER FINAL CONNECTIONS. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH #12 AWG STEEL DRAW WIRE.
- THE FIRE ALARM MANUFACTURER BASIS OF DESIGN FOR THIS FACILITY IS EDWARDS EST PRODUCTS.
- ALL WIRING, POWER, CONDUCTORS, CONDUITS ETC. SHALL MEET THE NYC ELECTRICAL CODE.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE NYS BUILDING CODE AND NFPA 72.
- ALL FIRE ALARM EQUIPMENT SHALL BE APPROVED (MEA, BSA OR COA APPROVED).
- ALL FIRE ALARM CIRCUITS SHALL BE SIZED TO A MAXIMUM OF 80% OF CAPACITY.
- ALL FIRE ALARM CIRCUITS SHALL BE WIRED NFPA STYLE 4/Y/B (CLASS B) WITH THE EXCEPTION OF THE NETWORK CIRCUIT WHICH SHALL BE NFPA STYLE 7 (CLASS A WITH ISOLATION). DUAL CLASS B NETWORKING IS NOT STYLE 7 AND WILL NOT BE APPROVED. ALL AUDIBLE AND VISUAL CIRCUITS SHALL BE STYLE Y/CLASS B AND SPLIT A/B. SPLIT A/B CIRCUITS SHALL BE WIRED SO THAT EVERY OTHER DEVICE IS WIRED ON AN ALTERNATE CIRCUIT.
- CONDUITS MAY NOT ENTER THE TOP OF ANY FIRE ALARM EQUIPMENT CABINET.
- ALL FIRE ALARM EQUIPMENT SHALL BE INSTALLED WITH AESTHETICS IN MIND. CABINETS SHALL BE SEMI FLUSH MOUNTED AND CABLE TRAYS SHALL BE HIDDEN.
- ALL FIRE ALARM CABINETS AND JUNCTION BOXES SHALL BE PAINTED FIRE DEPARTMENT RED. ALL FIRE ALARM CABINETS SHALL BE CLEARLY LABELED WITH A APPROVED LAMINATE ENGRAVED LABEL.
- ALL FIRE ALARM WIRE SHALL BE CLEARLY LABELED IN JUNCTION BOXES AND CABINETS. ALL TERMINALS SHALL BE NUMBERED AND LABELED. ALL CONNECTIONS SHALL BE EITHER SOLDERED, 700BA APPROVED TERMINAL STRIPS OR SCOTCH LOCKS.
- ALL LOW VOLTAGE FIRE ALARM CONDUCTORS SHALL BE PROTECTED BY EITHER BUILDING CONSTRUCTION OR CONDUIT TO 8 FEET ABOVE THE FINISHED FLOOR. LOADING DOCKS, GARAGES, SUPPRESSION AND EXTINGUISHING SYSTEM WIRING, MECHANICAL AND ELECTRICAL ROOMS AND OTHER LOCATIONS SUBJECT TO MECHANICAL DAMAGE SHALL BE IN FULL RIGID CONDUIT. IN ALL OTHER AREAS APPROVED WIRE MAY BE RUN WITHOUT CONDUIT ABOVE 8 FT. ALL WIRING INSTALLATION EXPOSED IN FINISHED AREAS SHALL BE AS FOLLOWS:
A) ON WALLS - IN SINGLE PIECE 1/2" SURFACE MOUNTED STEEL RACEWAY.
B) WHERE CEILING IS NOT ACCESSIBLE - IN SINGLE PIECE SURFACE MOUNTED STEEL RACEWAY.
- FIRE ALARM CABLES SHALL NOT BE MIXED WITH NON FIRE ALARM CABLING. LOW VOLTAGE FIRE ALARM CABLING SHALL NOT BE MIXED OR WIRED NEAR ANY AC CIRCUIT.
- ALL LOW VOLTAGE WIRING SHALL BE FPLP 150 DEGREE C. ALL NOTIFICATION CIRCUITS SHALL BE A MINIMUM OF 14 AWG AND ALL OTHER LOW VOLTAGE FIRE ALARM CIRCUITS SHALL BE 16 AWG MINIMUM.
- VERTICAL RISER CABLE FOR ALL SYSTEMS SHALL BE INSTALLED IN A 2 HOUR RATED SHAFT.
- POLARITY SHALL BE OBSERVED ON ALL CIRCUITS. T-TAPPING SHALL NOT BE ALLOWED ON ANY NOTIFICATION CIRCUITS (HORN, STROBE OR SPEAKER). T-TAPPING SHALL NOT BE PERMITTED ON ADDRESSABLE CIRCUITS.
- ALL WIRING SHALL BE INSPECTED TO ASSURE THERE ARE NO OPENS, SHORTS OR EARTH GROUNDS.
- SHIELDED CONDUCTORS OR RUNNING IN SEPARATE RACEWAY SHALL BE AS INSTRUCTED BY THE FIRE ALARM MANUFACTURER'S DOCUMENTATION. ALL NON-POWER LIMITED WIRING SHALL BE RUN IN A SEPARATE RACEWAY.
- A CENTRAL STATION DIALER AND TWO DEDICATED PHONE LINES SHALL BE PROVIDED. THE DIALER SHALL BE CAPABLE OF SENDING THE FOLLOWING EVENTS: ALARM, MANUAL STATION, WATERFLOW, SUPERVISORY, CARBON MONOXIDE, TROUBLE, PUMP RUNNING AND PUMP TROUBLE ALONG WITH SPECIFIC LOCATION OF THE ALARM.
- ALL AREA OR DUCT SMOKE DETECTORS SHALL BE PHOTO-ELECTRIC TYPE.
- SMOKE DETECTORS MUST BE MOUNTED AT LEAST 3 FT AWAY FROM ANY AIR REGISTER.
- ALL CEILING MOUNT DEVICES MUST BE SECURELY FASTENED TO BUILDING CONSTRUCTION.
- DEVICE LOCATIONS MUST BE READILY ACCESSIBLE TO ALLOW FOR MAINTENANCE AND REPAIR.
- DUCT MOUNTED SMOKE DETECTORS SHALL BE MOUNTED ON THE DUCTWORK IN STRICT ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS. ALL DUCT DETECTORS SHALL BE PROVIDED WITH A REMOTE LED IN AN OBSERVABLE AREA. EACH LED STATION TO BE LABEL PER UNIT AND DEVICE MONITORY.
- MANUAL STATIONS SHALL BE MOUNTED 48 INCHES ABOVE THE FINISHED FLOOR TO THE HANDLE OF THE STATION AND SHALL BE PAINTED FIRE DEPARTMENT RED. ALL MANUAL STATION SHALL BE INSTALLED SO THAT THEY ARE KEPT UN-OBSTRICTED AT ALL TIMES.
- ALL STROBE LIGHTS SHALL BE UL-1971 APPROVED/LISTED. THE MINIMUM CANDELA IS 75 UNLESS OTHERWISE NOTED.
- NOTIFICATION DEVICES THAT INCLUDE A STROBE SHALL BE MOUNTED 80 INCHES OFF THE FINISHED FLOOR TO THE BOTTOM OF THE STROBE, NOT NECESSARILY THE ELECTRICAL BOX.
- ALL AUXILIARY RELAYS FOR FAN SHUTDOWN, DOOR RELEASE, DAMPER CONTROL, ELEVATOR CONTROL, ETC. SHALL BE WIRED A MAXIMUM OF 3 FT FROM THE CONTROLLED DEVICE. THE AUXILIARY RELAY SHALL FUNCTION WITHIN THE REQUIRED VOLTAGE AND CURRENT OF THE CONTROLLED DEVICE. SLAVE OR INTERPOSING RELAYS SHALL BE INCLUDED AND POWERED BY THE FIRE ALARM CONTROL PANEL IN A FAIL-SAFE (FIRE FUNCTION) POSITION. POWER TO THE INTERPOSING RELAY SHALL BE MONITORED BY THE FIRE ALARM SYSTEM.
- OBTAIN APPROVAL OF PLANS BY THE FIRE DEPARTMENT PRIOR TO THE BEGINNING OF ANY WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY AND ALL ABANDONED FIRE ALARM CABINETS, DEVICES, AND WIRE. PAINT, PATCH AND CLEANUP SHALL ALSO BE INCLUDED.
- FOR APPLICATIONS REQUIRING A FIRE ALARM SYSTEM REPLACEMENT (FCC, FACP, OR SCP, SSCP ETC), THE CONTRACTOR SHALL BE RESPONSIBLE FOR INTERFACING THE NEW SYSTEM WITH THE OLD SYSTEM SO THAT THEY ACT AS ONE. ONCE SYSTEM APPROVAL IS GRANTED, THE CONTRACTOR SHALL THEN BE RESPONSIBLE FOR REMOVING PERTINENT PARTS OF THE OLD SYSTEM INCLUDING REMOVING OLD WIRE AND CONDUIT, PATCH, PAINT, AND CLEANUP. FIRE WATCH, IF NECESSARY, SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- CARBON MONOXIDE (CO) AND COMBINATION SMOKE AND CO DETECTORS SHALL BE FULLY ADDRESSABLE (EST SIGA2 SERIES OR EQUAL) AND INCLUDE A SOUNDER BASE. MANUFACTURERS THAT DO NOT OFFER AN ADDRESSABLE CO OR SMOKE/CO TYPE DEVICE SHALL INCLUDE SEPARATE CO AND SMOKE DETECTORS, EACH WITH AN INTERNAL SYNCHRONIZED TEMPORAL 3 AND 4 SOUNDERS, AND THE NECESSARY MONITORING DEVICES SO THAT THE FIRE ALARM SYSTEM MAY MONITOR BOTH TYPES SEPARATELY. IF POWERED SEPARATELY (24VDC), POWER TO THE DEVICE SHALL ALSO BE SUPERVISED.
- BOOSTER POWER SUPPLIES SHALL BE PROVIDED AS NECESSARY FOR STROBE CIRCUIT DRAW AND LENGTHY STROBE CIRCUIT RUNS. PROVIDE A SEPARATE 120V POWER FEED FOR EACH BOOSTER AS WELL AS A SMOKE DETECTOR MOUNTED DIRECTLY ABOVE IT.
- PROVIDE AUDIBILITY LEVELS PER NFPA72.
- COORDINATE WITH FIRE PROTECTION DRAWINGS FOR LOCATION AND CONNECTION OF POWER AND CONTROL TO THE EXISTING AND NEW TAMPER AND FLOW SWITCH DEVICES.
- COORDINATE WITH MECHANICAL DRAWINGS FOR LOCATION AND CONNECTION OF POWER AND CONTROL TO THE EXISTING AND NEW FSD AND DUCT SMOKE DETECTOR DEVICES.
- THE CONTRACTOR IS REQUIRED TO COORDINATE THE SCHEDULING OF ALL INSPECTIONS WITH THE NYC FIRE DEPARTMENT WITH BUILDING FIRE ALARM AND MAINTENANCE VENDOR.

IN ORDER TO OBTAIN THE FINAL FDNY LETTER OF APPROVAL AND SIGNOFF THE DOB APPLICATION AS PART OF THE SCOPE OF FIRE AND BUILDING CODE SERVICES, INC. AT EACH INSPECTION, A MINIMUM OF TWO FIRE ALARM TECHNICIANS WITH S97 OR S98 CERTIFICATIONS AND ONE ELECTRICIAN SHOULD BE PRESENT.
- THE CONTRACTORS PRESENCE AT ALL OF THE OWNERS PRE-INSPECTIONS PRIOR TO THE FDNY INSPECTION AND ALL FDNY INSPECTIONS. A MINIMUM OF ONE ELECTRICAL CONTRACTOR AND TWO (2) FIRE ALARM TECHNICIANS SHALL BE PRESENT AT ALL INSPECTIONS.
- THE CONTRACTOR IS RESPONSIBLE TO PREPARE AND PROVIDE THE AS-BUILT RISER PLAN AND THE APPLICANT OF RECORD IS RICK MELAN WHO WILL BE SIGNING AND SEALING THE FUNCTIONALITY STATEMENT IN ACCORDANCE WITH THE REQUIREMENTS OF 3RCNY R105.01(C) (2) (A) (3) AND (4).
- ARCS FILED UNDER SEPARATE APPLICATION.

THERE IS NO CARBON MONOXIDE PRODUCING EQUIPMENT ON THIS FLOOR OR THE FLOOR BELOW THERE IS NO FLOOR ABOVE

rev. no. date revisions



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PROJECT:

**NAGLER RESIDENCE HALL
TURNSTILE INSTALLATION
220 WEST 27th STREET,
NEW YORK, NY 10001**

DRAWING TITLE:

**FIRE ALARM NAGLER HALL
SYMBOL LIST, GENERAL NOTES
AND ABBREVIATIONS**

DEPARTMENT OF BUILDING JOB

SEAL & SIGNATURE:

DATE: 05.02.2022
PROJECT No: 13204.155B
DRAWING BY: KB
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DWG No:

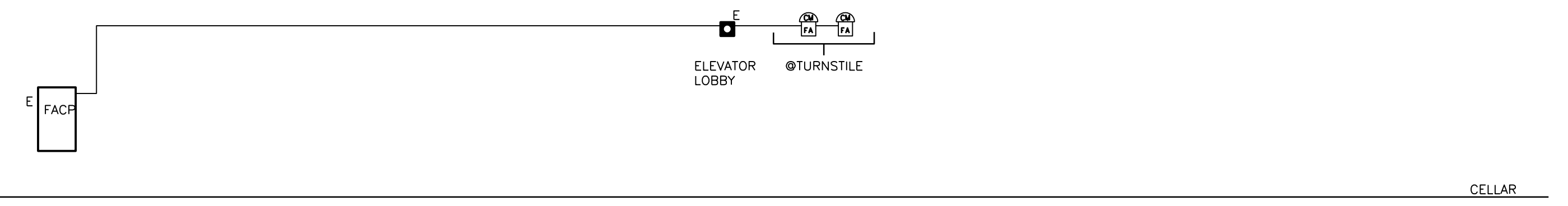
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SCALE: NONE 1 OF 3

NFPA OPERATIONS MATRIX

SYSTEM INPUTS	Control Unit Annunciation														SYSTEM OUTPUTS													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1 MANUAL FIRE ALARM BONES	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2 LAMB SMOKE DETECTORS	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
3 INDOOR SMOKE DETECTORS	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4 WATER LOW	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5 CARBON MONOXIDE DETECTORS	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6 SPRINKLER CONTROL VALVE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7 FIRE ALARM AC FAILURE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8 FIRE ALARM SYSTEM LOW BATTERY	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9 OPEN CIRCUIT	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10 CIRCUIT FAULT	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11 NOTIFICATION APPLIANCE CIRCUIT SHORT	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12 SUBSYSTEM ALARM	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
13 SUBSYSTEM TROUBLE	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
14 BELL SWITCH	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

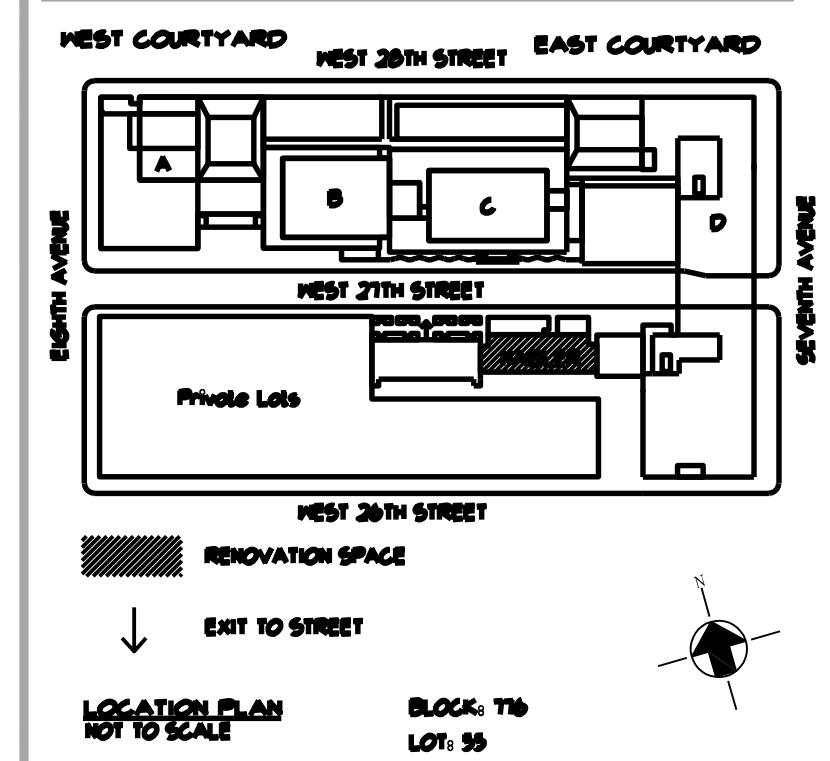
FIRST FLOOR



THERE IS NO CARBON MONOXIDE PRODUCING EQUIPMENT ON THIS FLOOR OR THE FLOOR BELOW THERE IS NO FLOOR ABOVE

FIRE ALARM WORK NOTES

- NO WORK SHALL BE STARTED UNTIL SCHEDULES ARE APPROVED OR ACCEPTED BY THE FIRE DEPARTMENT.
- ALL MATERIALS AND DEVICES USED IN FIRE ALARM SIGNAL SYSTEMS SHALL BE SECURELY FASTENED IN POSITION. PLASTIC ANCHORS ARE NOT ACCEPTABLE.
- FIRE ALARM CONTROL PANEL (FCS) SHALL BE GROUNDED BY A GREEN JACKET SOLID COPPER WIRE, IN HEAVY WALL RIGID CONDUIT, CONNECTED TO EXISTING GROUNDING SYSTEM BY AN APPROVED CLAMP, UNLESS OTHERWISE NOTED. SIZE OF THE GROUND WIRE SHALL AT LEAST MATCH THE SIZE OF THE LARGEST POWER SUPPLY WIRES, BUT SHALL NOT BE SMALLER THAN #10 A.W.G. SOLID COPPER.
- ALL CONDUIT, JUNCTION BOXES, MOUNTING BOXES, AND FIRE ALARM PANEL SHALL BE SECURELY HUNG AND FASTENED WITH APPROPRIATE FITTINGS TO INSURE POSITIVE GROUNDING THROUGHOUT THE ENTIRE FIRE ALARM SYSTEM.
- NO WIRING OTHER THAN THAT DIRECTLY ASSOCIATED WITH FIRE ALARM DETECTION, ALARM OR AUXILIARY FIRE PROTECTION FUNCTIONS SHALL BE PERMITTED IN FIRE ALARM CONDUITS.
- WIRING SPLICES SHALL BE AVOIDED TO THE EXTENT POSSIBLE, AND IF NEEDED THEY SHALL BE MADE ONLY IN JUNCTION BOXES USING APPROVED CONNECTIONS.
- ALL CONDUCTORS IN CONDUIT CONTAINING MORE THAN ONE WIRE SHALL BE LABELED ON EACH END ACCORDINGLY.
- THE CONTRACTOR SHALL PROVIDE AS BUILT RISER DIAGRAM UNDER A FRAMED GLASS NEXT TO THE FACP. THE FRAME SHALL BE PERMANENTLY MOUNTED.
- THE CONTRACTOR SHALL PROVIDE THE SYSTEM INSTRUCTION CARD UNDER A FRAMED GLASS NEXT TO THE FACP. THE FRAME SHALL BE PERMANENTLY MOUNTED.
- THE CONTRACTOR SHALL PROVIDE ALL REQUIRED LABELS. THIS SHALL INCLUDE THE REQUIRED "LAMACORE" TYPE LABELS FOR THE "SPRINKLER BELL", "SMOKE BELL", "TROUBLE BELL", "FIRE ALARM CONTROL PANEL", "FIRE ALARM FUSE CUTOFF", ETC.
- FOR ALL WEATHERPROOF SPEAKER/STROBES THAT THE CONTRACTOR SHOULD PROVIDE AN STI LEXAN WEATHERPROOF COVER SILICONE ON TOP AND SIDES.
- THE CONTROL RELAY SHALL BE WITHIN THREE FEET OF WHAT IT IS CONTROLLING AND PROPERLY SHOW THE SUPERVISION OF RELAY POWER AS REQUIRED BY CODE.
- THE FIRE ALARM SYSTEM IS BEING INSTALLED IN ACCORDANCE WITH 2014 CODE.



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PROJECT:
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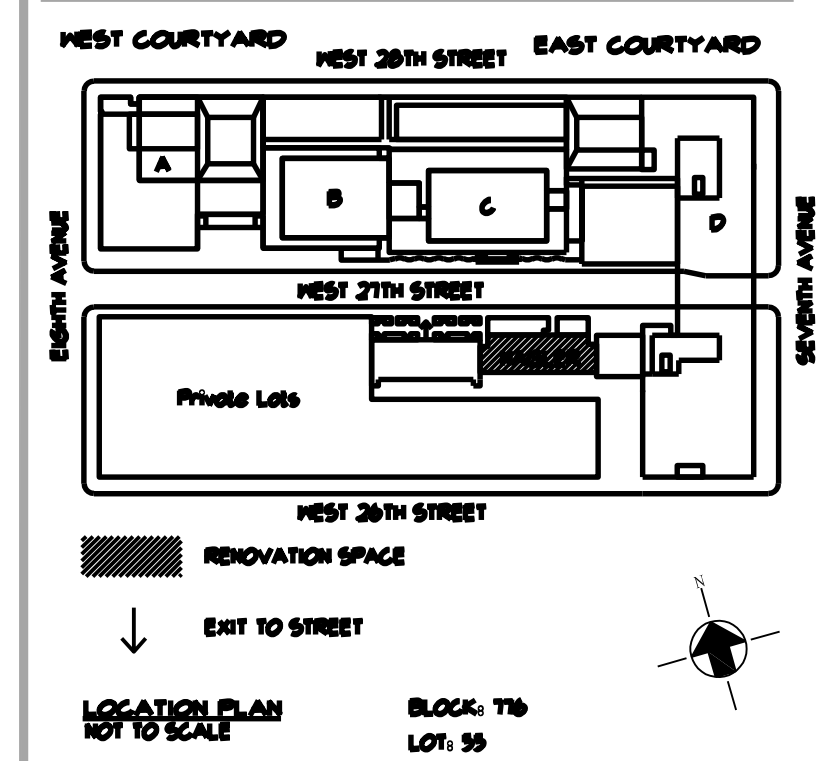
DRAWING TITLE:
FIRE ALARM NAGLER HALL
RISER DIAGRAM
RISER NOTES, AND MATRIX

DEPARTMENT OF BUILDING JOB #

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CHK BY: WM
DWG No: _____

FA-002.00

SCALE: NONE 2 OF 3



CELLAR FLOOR PLAN
SCALE: 1/8"=1'-0"

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DRAWING TITLE:
FIRE ALARM
CELLAR FLOOR PLAN

DOB NOW JOB#

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PROJECT No: 15204.155B
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DWG No:
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