

CITY OF CHICAGO LOCATION MAP



1769,1819,1869 W. PERSHING TUNNEL RENOVATION

1819 W. PERSHING ROAD
CHICAGO, ILLINOIS 60609

PBC PROJECT NUMBER 04028

ISSUE FOR 100% CD Rev
11.09.2021



PUBLIC BUILDING COMMISSION OF CHICAGO

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1869 — WEST BUILDING



1769 — EAST BUILDING



1819 — CENTER BUILDING



CARPENTER SHOP

Environmental Notes

WARNING: ASBESTOS CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. AN ASBESTOS MANAGEMENT PLAN IS AVAILABLE IN THE SCHOOL FOR REVIEW UPON REQUEST. NO PERSON MAY DISTURB ASBESTOS CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS ABATEMENT WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH PROJECT SPECIFICATIONS CONTAINING IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH THE APPLICABLE REGULATIONS.

LEAD-BASED PAINT MAY BE PRESENT WITHIN THE BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE APPROPRIATE SAFETY MEASURES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL RULES AND REGULATIONS INCLUDING OSHA 1926.201 COMPLIANCE, WASTE CHARACTERIZATION AND WASTE DISPOSAL. ALL WORK WITH SURFACES CONTAINING LEAD-BASED PAINT SHALL BE DONE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

Professional Stamp



**1769, 1819, 1869 W. PERSHING
TUNNEL RENOVATION**
1819 W PERSHING ROAD
CHICAGO, ILLINOIS 60609
PUBLIC BUILDING COMMISSION OF CHICAGO
CITY OF CHICAGO, MAYOR LORI LIGHTFOOT

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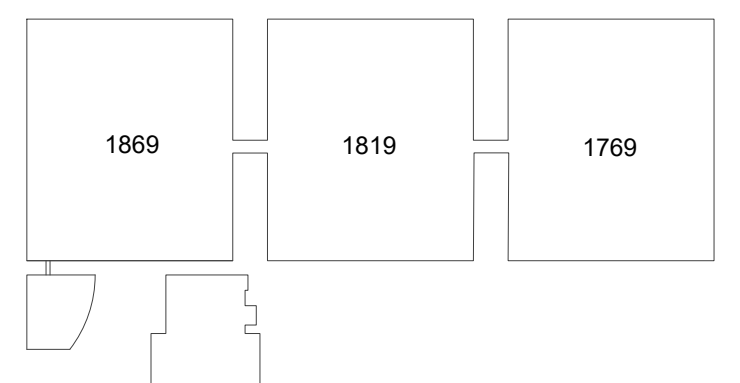
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Issuance		
Mark	Description	Date
01	ISSUE FOR PREBID	10/14/21
02	ISSUE FOR 100% CD Rev	11/09/21

PBC Project Name: 1769, 1819, 1869
Pershing Tunnel Renovation
PBC Contract No:
Project No: #04028
Title
COVER SHEET

Sheet
G-000



Harding Partners p:\projects\2021\2103_pbc_pershing\06_graphics\1_construction documents [cd]\1_architectural\g1.dwg 11/9/2021 1:54 PM LAST SAVED BY Ioraine

GENERAL NOTES

1	THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING THE CONTRACTOR'S BEST SKILL AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND HAVE COMPLETE CHARGE OF CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES PROCEDURES AND PERSONNEL SAFETY PROGRAMS FOR COORDINATING ALL PORTIONS OF THE SCOPE OF THIS WORK. NEITHER THE ARCHITECT NOR PBC OR THEIR AGENTS WILL ASSUME ANY OF THESE RESPONSIBILITIES AND THEY SHALL BE HELD HARMLESS FROM ANY LIABILITIES THAT MAY ARISE AS A RESULT OF THE CONTRACTOR'S FAILURE, NEGLECT OR OMISSION TO PROPERLY UPHOLD THESE RESPONSIBILITIES AS DESCRIBED HEREIN AND IN OTHER DOCUMENTS OF THIS CONTRACT.
2	ALL WORK MATERIALS AND CONSTRUCTION DETAILS MUST COMPLY WITH ANY AND ALL APPLICABLE FEDERAL, STATE AND LOCAL BUILDING, HEALTH AND FIRE CODES. IN CASE OF CONFLICT BETWEEN JURISDICTION CODES, THE MORE STRINGENT SHALL APPLY.
3	ALL CONTRACTORS SHALL COMPLY WITH THE LATEST EDITION OF THE O.S.H.A. CONSTRUCTION AND SAFETY MANUAL.
4	NOT USED
5	CONTRACTOR SHALL COORDINATE WITH PBC AND AIS FOR ALL PHASING OF CONSTRUCTION OPERATIONS IN ORDER TO MAINTAIN USE OF ALL CRITICAL FUNCTIONS, UTILITIES, SERVICES AND OTHER RELATED ITEMS WITHIN THE EXISTING FACILITIES. COORDINATE WITH PBC AND AIS PRIOR TO BIDDING.
6	THE CONTRACTOR SHALL ADVISE THE ARCHITECT, IN WRITING, OF THE ACTUAL START OF WORK INDICATED ON THESE DRAWINGS AND FURNISH A GRAPHIC CONSTRUCTION SCHEDULE SHOWING MAJOR TRADES AND FINAL COMPLETION OF SOME.
7	THE ARCHITECT SHALL HAVE THE RIGHT AT ANY TIME TO MAKE ALTERATIONS, ADDITIONS TO AND DEDUCTIONS FROM THE WORK SHOWN ON THE DRAWINGS OR DESCRIBED IN THE SPECIFICATIONS WITHOUT VOIDING THE CONTRACT. ALL SUCH ITEMS WILL BE COVERED BY A REVISION DATE TO THE PLANS, WRITTEN JOB ORDER AND/OR SUPPLEMENT TO THE CONTRACT BY THE CONSTRUCTION MANAGER AND/OR THE ARCHITECT.
8	ANY CHANGES, SUBSTITUTION, OMISSION, OR OTHER DEVIATIONS FROM THESE DRAWINGS DURING OR BEFORE THE CONSTRUCTION SHALL NOT BE THE RESPONSIBILITY OF THE ARCHITECT UNLESS AUTHORIZED IN WRITING BY THE ARCHITECT, OR HIS CONSULTANTS. CHANGES NOT APPROVED BY PROPER AUTHORITIES SHALL BE INSTALLED AND/OR CORRECTED AT THE CONTRACTORS EXPENSE.
9	THE CONTRACTOR, WITHOUT EXTRA CHARGE SHALL MAKE SUCH SLIGHT ALTERATIONS, CULING, FILLING OR PATCHING OF HIS WORK AS MAY BE NECESSARY TO MAKE ADJUSTABLE PARTS FIT TO FIXED PARTS, LEAVING ALL COMPLETE AND IN PROPER CONDITION WHEN COMPLETED.
10	IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR AND HIS RESPECTIVE SUBCONTRACTORS TO KEEP THE BUILDING AND ADJOINING PREMISES FREE AT ALL TIMES FROM THE ACCUMULATION OF DEBRIS AS A RESULT OF THE WORK PERFORMED EACH DAY OF CONSTRUCTION.
11	THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL DUMPSTERS FOR AND FOR MAKING ARRANGEMENTS WITH AIS FOR PLACEMENT OF THESE DUMPSTERS FOR ANY CLEAN-UP. THE SITE SHALL REMAIN CLEAN AT ALL CONTRACTORS DUMPSITER LOCATIONS. DUMPSITER LOCATIONS SHALL NOT OBSTRUCT ACCESS TO THE LOADING DOCK. THE CONTRACTOR SHALL RESTORE THESE AREAS TO THEIR ORIGINAL CONDITION UPON COMPLETION AND IS RESPONSIBLE FOR ANY LANDSCAPING REPAIRS/REPLACEMENT REQUIRED AS A RESULT OF CONSTRUCTION ACTIVITIES.
12	THE CONTRACTOR SHALL INCLUDE ANY AND ALL WORK NEEDING TO BE DONE AFTER HOURS OR ON WEEKENDS, ANY WORK REQUIRING SHUTDOWNS OR ANY WORK THAT MAY CONSTITUTE OVERTIME IN HISHER BASE BID IF REQUIRED BY THE SCHOOLS SCHEDULE/CLASSES. PROVIDE TEMPORARY BARRIERS AND/OR PARTITIONS DURING CONSTRUCTION TO PREVENT SPREAD OF DUST OR OTHER RELATED MATERIALS. VERIFY AND COORDINATE LOCATIONS WITH THE ARCHITECT AND/OR PBC. CONTRACTOR SHALL MAINTAIN ALL REQUIRED EXITWAYS AT ALL TIMES.
13	PROVIDE TEMPORARY BARRIERS AND/OR PARTITIONS DURING CONSTRUCTION TO PREVENT SPREAD OF DUST OR OTHER RELATED MATERIALS. VERIFY AND COORDINATE LOCATIONS WITH THE ARCHITECT AND/OR AIS. CONTRACTOR SHALL MAINTAIN ALL REQUIRED EXITWAYS AT ALL TIMES.
14	CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN FIELD BEFORE COMMENCING WITH NEW WORK. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND/OR PBC ORALLY AND IN WRITING. ANY EXTRA WORK OR COST MUST BE APPROVED IN WRITING BY THE PROPER AUTHORITIES.
15	ALL MATTERS OF AESTHETIC EFFECT MUST BE DETERMINED BY THE ARCHITECT.
16	WHERE EXISTING ITEMS ARE TO BE RELOCATED AND/OR RE-INSTALLED, THE CONTRACTOR SHALL INSTALL SUCH ITEMS EQUALING OR EXCEEDING THE QUALITY OF EXISTING INSTALLATION BOTH STRUCTURALLY AND AESTHETICALLY. CONTRACTOR TO VERIFY QUALITY OF INSTALLATION WITH THE ARCHITECT.
17	IN ALL AREAS WHERE EXISTING CONDITIONS ARE ALTERED, NEW MATERIALS, PARTITIONS, OR PRODUCTS ARE INSTALLED, THE CONTRACTOR SHALL PATCH AND FINISH FLOORS, WALLS, CEILINGS AND OTHER AFFECTED AREAS TO MATCH EXISTING CONDITIONS. THE COLOR AND TEXTURE OF ALL NEW CONSTRUCTION SURFACES SHALL MATCH THAT OF EXISTING ADJACENT SURFACES. TO THE SATISFACTION OF THE ARCHITECT.
18	THE COLOR AND TEXTURE OF ALL NEW CONSTRUCTION SURFACES SHALL MATCH THAT OF EXISTING ADJACENT SURFACES. TO THE SATISFACTION OF THE ARCHITECT.
19	CONTRACTOR TO REPAIR OR CORRECT ANY AND ALL EXISTING CONSTRUCTION TO REMAIN THAT IS DAMAGED BY CONSTRUCTION AND/OR INSTALLATION PROCESS TO MATCH EXISTING AT NO ADDITIONAL COST TO THE PBC. THE CONTRACTOR IS TO DOCUMENT ALL EXISTING CONDITIONS PRIOR TO THE START OF ALL WORK. THIS INCLUDES ADJACENT AREAS WHERE WORK IS NOT TO BE DONE.
20	NOT USED
21	NOT USED
22	THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL DEMOLITION MATERIAL, REMOVAL OF DEBRIS AND DUMPSITER LOCATION MUST BE COORDINATED WITH PBC AND AIS.
23	ARCHITECTURAL DRAWINGS TAKE PRECEDENCE OVER ENGINEERING DRAWINGS FOR ELECTRICAL AND TELEPHONE OUTLETS AND LIGHT FIXTURE LOCATIONS. CONTRACTOR TO NOTIFY ARCHITECT OF DISCREPANCIES.
24	DIMENSIONS SHOWN ARE TO FINISHED FACE OF WALL, UNLESS SPECIFICALLY NOTED OTHERWISE. PARTITION THICKNESS AND CONSTRUCTION ARE DESIGNATED BY PARTITION TARGETS - REFER TO PARTITION DETAILS FOR REQUIREMENTS.
25	DO NOT SCALE DRAWINGS. DIMENSIONS SHALL GOVERN. LARGE SCALE DETAIL SHALL GOVERN OVER SMALL SCALE DETAILS.
26	WHEREVER GENERAL NOTES, LEGENDS & OTHER DESCRIPTIONS APPEAR ON ONE DRAWING THEY ARE APPLICABLE TO ALL DRAWINGS OF THE SAME OR SIMILAR TYPE.
27	ALL MATERIALS, METHODS OF INSTALLATION AND FINISHING OF CONSTRUCTION SYSTEMS (PARTITIONS, CEILING, DOORS, FRAMES, FLOORS, ETC.) SHALL CONFORM TO THE MANUFACTURERS' SPECIFICATIONS AND INSTALLATION INSTRUCTIONS FOR ITS INTENDED USE.
28	AS PART OF FINAL CLEAN-UP, THE CONTRACTOR SHALL CLEAN ALL AREAS WITHIN THE PROJECT BOUNDARY, AND ANY OTHER AREAS OF THE BLDG, DIRTIED DURING CONSTRUCTION. CONTRACTOR AND HIS SUBCONTRACTORS SHALL TURN THE PROJECT OVER TO PBC AND AIS, FREE FROM ALL CONSTRUCTION DEBRIS, MATERIAL AND EQUIPMENT, ALL RESILIENT FLOORINGS MOPPED CLEAN, CARPET VACUUMED, AND ALL WALLS, FIXTURES AND EQUIPMENT FREE OF DIRT AND OTHER FOREIGN MATERIALS.
29	CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SUBCONTRACTOR TRADES SUBMISSION OF "AS BUILT" DRAWINGS UPON COMPLETION OF PROJECT.
30	NOT USED
31	NOT USED
32	NOT USED
33	NOT USED
34	WHERE THERE ARE ANY PENETRATIONS IN THE FLOORS, WALLS, OR NEW RATED WALLS SUCH AS BUT NOT LIMITED TO DUCTWORK, PIPES AND CONDUITS, THE CONTRACTOR SHALL SEAL ALL EXCESS SPACE IN A CODE COMPLIANT MANNER AROUND DUCTWORK, PIPES AND CONDUITS, ETC. AT THE PENETRATION, WHERE A WALL IS EXTENDED TO THE UNDERSIDE OF THE SLAB, THE CONTRACTOR SHALL SEAL ANY EXCESS SPACE AROUND DUCTWORK, PIPES CONDUITS, ETC. AT THE PENETRATION IN THE NEW WALL IN A CODE COMPLIANT MANNER.
35	THE CONTRACTOR SHALL COORDINATE WORK OF ALL TRADES IN ORDER TO PROVIDE/MAINTAIN REQUIRED CLEARANCES FOR INSTALLATION OF CEILING ITEMS I.E. LIGHT FIXTURES, PROJECTION SCREENS, DIFFUSERS, SPRINKLERS, ETC.
36	THE CONTRACTOR SHALL COORDINATE WITH AIS/BUILDING ENGINEER FOR A LOCATION AT WHICH TO STORE CONSTRUCTION MATERIALS AND DELIVERED ITEMS.
37	NOT USED
38	FIRE SAFE ALL CONDUIT PENETRATIONS BETWEEN FLOORS, CORRIDOR TO CLASSROOM AND CLASSROOM TO CLASSROOM.
39	DO NOT START DEMOLITION UNTIL ENVIRONMENTAL HAZARDS HAVE BEEN REMEDIED IN ACCORDANCE WITH SECTION 02131 REVISION B- 02131, 02136, 02316 AND 02318 AS PREPARED BY CARNOW, CONIBEAR & ASSOC. REFER TO APPENDIX A UNDER SEPERATE COVER.
40	ALL WOOD IN TYPE I CONSTRUCTION SHALL COMPLY WITH REQUIREMENTS OF 6(13-60-020)(A), ALL WOOD BLOCKING TO BE FIRE-TREATED.
41	FOR ALL NON-FIRE RATED PARTITIONS, ALL WALL PERIMETERS AND ALL PENETRATIONS WILL BE SEALED WITH CONTINUOUS SEALANT.

DELEGATED DESIGN

THE STRUCTURAL DESIGN FOR THE FOLLOWING ASSEMBLIES AND CONNECTIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUBMITTALS ARE TO INCLUDE STRUCTURAL CALCULATIONS SIGNED AND STAMPED BY

A STRUCTURAL ENGINEER LICENSED IN THE STATE OF ILLINOIS

- 1 EXTERIOR STOREFRONT SYSTEM
- 2 EXTERIOR AND INTERIOR COLD FORMED METAL FRAMING
- 3 EXTERIOR STONE PANELS AND SUPPORT
- 4 MASONRY ANCHORAGE
- 5 SUNSCREEN PANELS AND CONNECTIONS
- 6 INTERIOR GYP. BOARD SOFFITS
- 7 ROOFTOP MECHANICAL SCREEN

BID DOCUMENTS NOTE

THESE DRAWINGS AND SPECIFICATIONS ARE "BID PACKAGE" DOCUMENTS WHICH INDICATE THE GENERAL EXTENT OF THE WORK AND SYSTEMS PERFORMANCE OF THE PROJECT IN TERMS OF THE DIMENSION OF THE BUILDING, THE TYPE OF STRUCTURAL, MECHANICAL, ELECTRICAL, AND UTILITY SYSTEMS AND AN OUTLINE OF MAJOR ARCHITECTURAL ELEMENTS OF CONSTRUCTION. AS "BID PACKAGE" DOCUMENTS, THE DRAWINGS AND ELEMENTS OF CONSTRUCTION. AS "BID PACKAGE" DOCUMENTS, THE DRAWINGS AND SPECIFICATIONS ARE NOT INTENDED TO INDICATE OR DESCRIBE ALL WORK REQUIRED FOR THE FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. ON THE BASIS OF THE GENERAL PERFORMANCE CRITERIA AND GENERAL EXTENT OF WORK INDICATED, DESCRIBED OR REQUIRED, THE CONTRACTOR SHALL ESTABLISH A COST WITH SUBCONTRACTORS AND FURNISH AND INSTALL ALL ITEMS REQUIRED FOR THE PROPER PERFORMANCE, EXECUTION AND COMPLETION OF THE WORK. THIS NOTE APPLIES TO ALL DRAWINGS

APPLICABLE BUILDING CODES

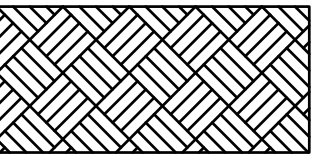

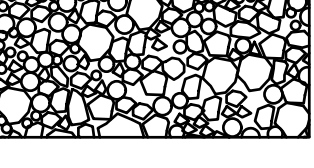
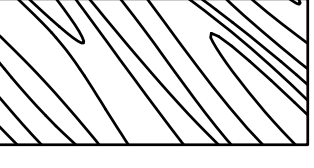
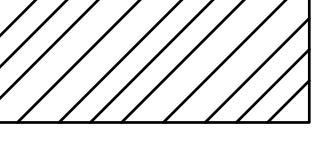
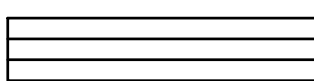
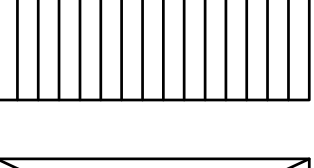
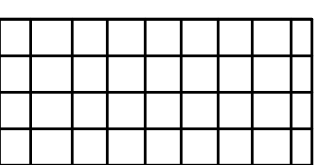
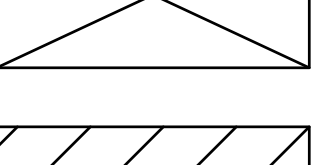
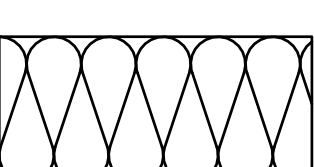
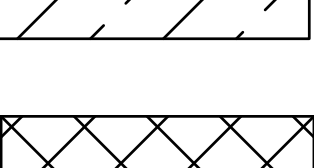
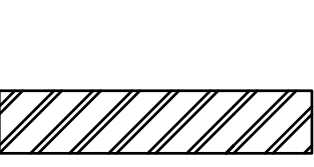
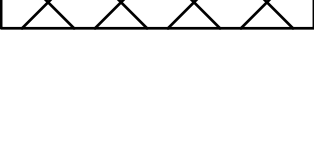
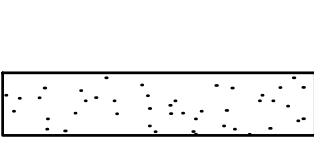
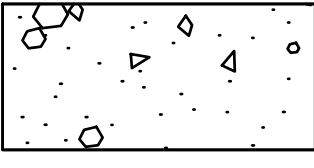
- 1 BUILDING CODE:
THE CITY OF CHICAGO BUILDING CODE 2019 (CCBC)
- 2 STATE ACCESSIBILITY CODE:
ILLINOIS ACCESSIBILITY CODE 2018 (IAC)
- 3 NATIONAL ACCESSIBILITY CODE:
AMERICANS WITH DISABILITIES ACT 2010 (ADA)
- 4 FIRE PREVENTION CODE:
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

BUILDING CODE GENERAL NOTES

- 1 ALL INTERIOR FINISHES TO COMPLY WITH CHAPTER 8 (14B-8-803) OF 2019 CHICAGO BUILDING CODE. ALL NEW INTERIOR WALLS AND CEILING FINISHES SHALL BE CLASS A WITH FLAME SPREAD RATINGS OF 0 TO 25 AND SMOKE DEVELOPED 450 MAX.
- 2 ALL INTERIOR FINISHES TO BE NON-COMBUSTIBLE AND COMPLY WITH CHAPTER 8 (14B-8-803) OF 2019 CHICAGO BUILDING CODE
- 3 ALL GLASS TO COMPLY WITH CHAPTER 24 (14B-24-2403) OF 2019 CHICAGO BUILDING CODE.
- 4 ALL DOORS TO BE KEYLESS IN THE DIRECTION OF EGRESS TO COMPLY WITH CHAPTER 10 (14B-10-1010) OF 2019 CHICAGO BUILDING CODE.

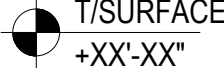

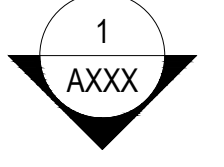
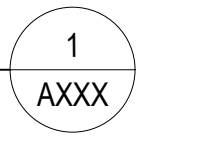
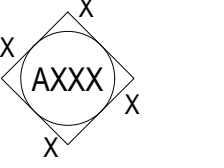
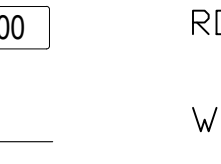
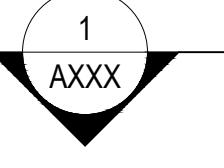

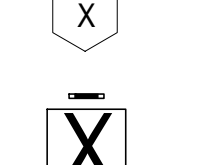
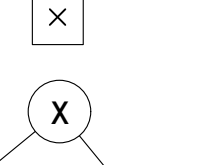
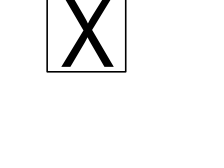
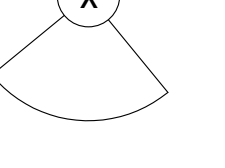
BUILDING INFORMATION

BUILDING CLASSIFICATION			
TYPE OF PROJECT	Moderate	Hazard	Storage
OCCUPANCY CLASSIFICATION	S-1		
CONSTRUCTION TYPE	1-A		
BUILDING HEIGHT	80'-6"	ABOVE GRADE PLANE	
BUILDING AREA	EXISTING BUILDING FIRST FLR	80,955SF	
	EXISTING BUILDING SECOND FLR	80,955SF	
	EXISTING BUILDING THIRD FLR	80,955SF	
	EXISTING BUILDING FOURTH FLR	80,955SF	
	EXISTING BUILDING FIFTH FLR	80,955SF	
	EXISTING BUILDING SIXTH FLR	80,955SF	
	EXISTING BUILDING TOTAL		524,000SF
LOT AREA			704,025 SF
FIRE RESISTIVE RATINGS	CHAPTER 8 (14B-9-803)		
INTERIOR FINISHES	CHAPTER 7 (14B-7-716)		
HARDWARE			

	EARTH		ACoustical TILE
	GRAVEL		WOOD, FINISH CARPENTRY
	BRICK		PLYWOOD, SMALL SCALE
	CERAMIC OR STRUCTURAL GLAZED TILE		INSULATION RIGID
	WOOD, ROUGH CARPENTRY		INSULATION BATT
	STONE		METAL, SMALL SCALE
	CONCRETE MASONRY UNIT		GYPSUM BOARD
			CONCRETE

C4 MATERIAL SYMBOLS

NOT TO SCALE

	SPOT ELEVATION		DETAIL BUBBLE
	ELEVATION		ROOM NAME TAG
	INTERIOR ELEVATION		WALL TYPE TAG
	OVERALL SECTION		DOOR TAG
	WINDOW TAG		DEMOLITION TAG
	SIGNAGE TAG		SITE PHOTO VIEW

E4 SYMBOLS

NOT TO SCALE

ABBREVIATIONS

Z-PUMS	Two-part Polyurethane Sealant
A/C	Air Conditioning
ABV	Above
ACP	Acoustical Panel
ACT	ACT Acoustic Tile
AD	Area Drain
ADJ	Adjacent
AFF	Above Finished Floor
ALS	Acrylic Latex Sealant
ALT	Alternate
ALUM	Aluminum
ANOD	Anodized
ANSI	American National Standard Institute
AP	Access Panel
APPROX	Approximately
ARA	Area of Rescue Assistance
ARCH	Architectural
AS	Acoustical Sealant
B.M.	Bench Mark
B'	Bottom of
BD	Board
BIT	Bituminous
BLDG	Building
BLK	Block, Wood Blocking
BLKG	Blocking
BM	Beam
BOT	Bottom
BRK	Brick
BRS	Backer Rod and Sealant
BTWN	Between
BUR	Built-up Roofing
CAB	Cabinet
CB	Catch Basin
CBC	Chicago Building Code
CCDD	Clean Construction or Demolition Debris
CHS	Circular Hollow Section
CJC	Circumference
CJO	Control Joint
CL	Center Line
CLNG	Ceiling
CLOS	Closet
CLR	Clear Opening
CMU	Concrete Masonry Unit
CO	Clear-out
COL	Column
CONC	Concrete
CONST	Construction
CONT	Continuous or Continued
CONTR	Contractor
CORR	Corridor
CPT	Carpet, Wall to Wall
CT	Ceramic Tile
DF	Drinking Fountain
DH	Double Hung
DIA	Diameter
DIM	Dimension
DN	Down
DP	HP High Point
DR	Door
DS	Down Spout
DTL	Detail
DW	Drywall
DWG	Drawing
DWP	Drywall Painted
EA	Each
EC	Extended Coverage
EIFS	Exterior Insulation Finished System
ELEC	Electric, Electrical
ELEV	Elevation
EMER	Emergency
EQ	Equal
EW	Electric Water Cooler
EXH	Exhaust
EXIST	Existing
EXP	Exposed
EXT	Exterior
FACP	Fire Alarm Control Panel
FD	Floor Drain
FDN	Foundation
FE	Fire Extinguisher
FEC	Fire Extinguisher Cabinet
FIN	Finished
FL	Floor, Flooring
FST	Flexible Sheet Roofing
FTNG	Footing
FUR	Furred
FUT	Future
GA	Gauge
GALV	Galvanized
GB	Glazed Brick
GC	General Contractor
GL	Glass
GM	Glazed Masonry
GYP	Gypsum
GYP BD	Gypsum Board
HB	Hose Bib
HC	Handicapped
HDWD	Hardwood
HM	Hollow Metal
HNCG	Hollow Neoprene Compression
HOR	Horizontal
HT	Height
HVAC	Heating
IAC	Heating Ventilation Air Conditioning
IAC	Illinois Accessibility Code
ID	Inside Diameter
ILL. ADM. CODE	Illinois Administrative Code
IN	Inch
INSUL	Insulate, Insulated, Insulation
INT	Interior
INV	Invert
JC	Janitor Closet

ABBREVIATIONS

JT	Joint
KIT	Kitchen
L	Length
LAM	Laminated
LAV	Lavatory
LP	Low Point
LT	Light
LW CONC	Lightweight Concrete
MANUF	Manufacturer
MATL	Material
MAX	Maximum
MECH	Mechanical
MED	Medium
MH	Manhole
MIN	Minimum
MISC	Miscellaneous
MO	Masonry Opening
MTL	Metal
MUL	Mulch
MWRDGC	Metropolitan Water Reclamation District of Greater Chicago
NC	Noise Criteria
NFPA	National Fire Protection Association
NIC	Not in Contract
NOM	Normal
NRC	Noise Reduction Coefficient
NTS	Not to Scale
OA	Overall
OC	On-center
OCC	Occupancy
OD	Outside Diameter
OH	Overhead
OPNG	Opening
OPP	Opposite
ORD	Overflow Roof Drain
PART BD	Particle Board
PLAS	Plaster
PLUMB	Plumbing
PLYWD	Plywood
PREFAB	Prefabricated
PT	Point
PTD	Paint, Painted
PVC	Polyvinyl Chloride
PVDF	Polyvinyl Fluoride Resin
QT	Quarry Tile
QTY	Quantity
QUANT	Quantity
R	Riser
RA	Return Air
RAD	Radius
RB	Resilient Base
RBC	Reinforced Bituminous Compound
RC	Reinforced Concrete
RD	Roof Drain
RDL	Recessed Downlight
REF	Reference
REFRIG	Refrigerator
REINF	Reinforced
REQD	Required
REV	Revision
RHS	Rectangular Hollow Section
RM	Room
RO	Rough Opening
ROW	Right of Way
SC	Solid Core
SECT	Section
SHT	Sheet
SM	Similar
SPEC	Specification
SQ	Square
SQ FT	Square Feet
SQ IN	Square Inches
SRS	Silicone Rubber Sealant
SS	Stainless Steel
SSS	Silicone Sanitary Sealant
ST	Sealant Type
STC	Sound Transmission Coefficient
STD	Standard
STL	Steel
STN	Stained
STOR	Storage
STRUCT	Structural
SUSP	Suspended
SYM	Symmetry, Symmetrical
T	Tread
T&G	Tongue and Groove
TI	Top of
TA	Top-access
TACO	Tiered Approach to Cooperative Action Objectives
TC	Terra Cotta
TCL	Target Compound List
TEL	Telephone
THK	Thick, Thickness
TT	Traffic Topping
TYP	Typical
UL	Underwriters Laboratory
UNO	Unless Noted Otherwise
UR	Urinal
UST	Underground Storage Tank
V	Vinyl
VB	Vinyl Base
VCT	Vinyl Composition Tile
VERT	Vertical
VEST	Vestibule
VIF	Verify in Field
VT	Vinyl Tile
VVC	Vinyl Wall Covering
W	Width, Wide
WI	With
WII	Within
W/O	Without
WC	Water Closet
WD	Wood
WND	Window
WP	Work Point
WPR	Waterproofing
WR	Water Resistant
WNR	Wood Veneer
WWF	Welded Wire Fabric

DRAWING INDEX

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A-100C	1769 BASEMENT AND UTILITY TUNNEL PLAN
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GENERAL NOTES:

1. THE SURVEY BASE PROVIDED HEREIN IS FOR INFORMATIONAL PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL SITE CONDITIONS.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THEIR WORK WITH ACTUAL CONDITIONS AT THE JOB SITE. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLAN, THEY MUST IMMEDIATELY REPORT SAME TO THE ENGINEER BEFORE DOING ANY WORK. OTHERWISE THE CONTRACTOR ASSUMES FULL RESPONSIBILITIES. IN THE EVENT OF DISAGREEMENT BETWEEN THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAIL, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK. AFFECTED BY OMISSIONS OR DISCREPANCIES, FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT THEIR OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.
3. EXCEPT WHERE MODIFIED BY THE CONTRACT DOCUMENTS, ALL WORK PROPOSED HEREIN SHALL BE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
 - A. CITY OF CHICAGO DEPARTMENT OF TRANSPORTATION "RULES AND REGULATIONS FOR CONSTRUCTION IN THE PUBLIC WAY", LATEST EDITION.
 - B. ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION AND ALL SUPPLEMENTAL PROVISIONS AND ADDENDA, LATEST EDITION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND PAYING THE REQUISITE FEES FOR CONSTRUCTION. THEY SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE STREETS OR ROADWAYS AND ASSOCIATED STRUCTURES AND SHALL MAKE REPAIRS AS NECESSARY TO THE SATISFACTION OF THE ENGINEER.
5. THE CONTRACTOR MUST COMPLY WITH ALL FEDERAL, STATE AND LOCAL CODES.
6. ALL WORK AND MATERIALS WHICH DO NOT CONFORM TO THE SPECIFICATIONS ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
7. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
8. ALL DISTURBED AREAS SHALL BE RESTORED BY THE CONTRACTOR TO THE ORIGINAL CONDITION.

DEMOLITION NOTES:

1. THE EXTENT OF DEMOLITION WORK IS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN AND INCLUDES, BUT IS NOT LIMITED TO THE REMOVAL OF ALL UTILITIES, OVERHEAD LINES AND POLES, PAVING, VEGETATION AND OTHER SITE FEATURES WHICH CONFLICT WITH THE CONSTRUCTION OF THE NEW FACILITIES, OR ARE DESIGNATED TO BE REMOVED.
 2. CONDUCT DEMOLITION OPERATIONS AND REMOVAL OF DEBRIS AND SPOILS TO ENSURE MINIMAL INTERFERENCE WITH FACILITY OPERATIONS.
 3. ENSURE SAFE PASSAGE OF PERSONS AROUND AREAS OF DEMOLITION. REMOVE FROM SITE ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION AND LAWFULLY DISPOSE OF SAME.
 4. NOTIFY OWNER 48 HOURS IN ADVANCE OF ANY UTILITY SHUTDOWN.
 5. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER/ARCHITECT ALL ITEMS DESIGNATED TO BE REMOVED OR RELOCATED.
 6. IF ANY ITEMS ARE ENCOUNTERED IN THE FIELD THAT ARE NOT SHOWN ON THE PLAN WHICH REQUIRE DEMOLITION OR RELOCATION, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY.
 7. THE CONTRACTOR WILL PROTECT ALL UTILITIES DESIGNATED TO REMAIN. ANY DAMAGE BY THE CONTRACTOR TO UTILITIES, ALLEYS, STREETS OR ADJACENT PROPERTIES WILL BE REPAIRED/REPAIRED AT THE CONTRACTOR'S EXPENSE.
 8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ALL EXISTING SERVICES AND APPURTENANCES TO DEMOLISHED SITE FEATURES AND CAP/TERMINATE AS REQUIRED BY THE UTILITY COMPANY. CONTRACTOR SHOULD CONTACT ARCHITECT/ENGINEER IF ANY QUESTION ARISES REGARDING THE VIABILITY OF A UTILITY STRUCTURE.
- A. CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT "DESIGN GUIDELINES FOR WATER MAIN INSTALLATIONS", LATEST EDITION.
 - B. CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT "REGULATIONS FOR SEWER CONSTRUCTION AND STORMWATER MANAGEMENT", LATEST EDITION.
 - C. ILLINOIS SOCIETY OF PROFESSIONAL ENGINEERS "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", LATEST EDITION.
4. CALL DIGGER (312) 744-7000 PRIOR TO DIGGING FOR ANY UTILITY CONSTRUCTION.
 5. A WATER MAIN SHALL BE SEPARATED FROM A SEWER SO THAT ITS INVERT IS A MINIMUM OF 18 INCHES ABOVE THE CROWN OF THE SEWER. WHENEVER WATER MAINS CROSS STORM SEWERS, SANITARY SEWERS OR SEWER SERVICE CONNECTIONS, THIS VERTICAL SEPARATION SHALL BE MAINTAINED. A LENGTH OF WATER MAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEWER OR DRAIN. A TEN FOOT HORIZONTAL SEPARATION BETWEEN ALL WATER AND SEWER PIPES SHALL BE MAINTAINED.
 6. WHEN IT IS IMPOSSIBLE TO OBTAIN THE PROPER SEPARATION AS DESCRIBED ABOVE, OR THE WATER MAIN PASSES UNDER A SEWER OR DRAIN, BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION.

DIMENSION NOTES:

1. ALL DIMENSIONS ARE FROM FACE OF CURB, FACE OF BUILDING, EDGE OF PAVEMENT, PROPERTY LINE OR POINT OF TANGENCY UNLESS OTHERWISE NOTED.

GRADING NOTES:

1. CONTRACTOR TO ADJUST RIMS OF ALL EXISTING STRUCTURES TO MEET NEW GRADES.
2. ELEVATIONS SHOWN ARE PER CITY OF CHICAGO DATUM (CCD).

EROSION CONTROL NOTES:

1. THE SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS FOR SOIL AND SEDIMENTATION CONTROL OF LOCAL GOVERNMENT AGENCIES, PROCEDURES AND STANDARDS FOR URBAN SOIL AND SEDIMENTATION CONTROL IN ILLINOIS, AND IEPA STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, LATEST EDITION.
2. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
3. PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
4. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE ENGINEER.
5. DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING DIRECTLY INTO THE FIELD TILES OR STORMSEWER IS PROHIBITED.
6. PERMANENT OR TEMPORARY SOIL STABILIZATION MUST BE APPLIED WITHIN 15 CALENDAR DAYS OF THE END OF ACTIVE SOIL DISTURBANCE.
7. FILTER BASKETS SHALL BE INSTALLED AND MAINTAINED AROUND THE INLET AND OUTLET STRUCTURES AS SPECIFIED.
8. SEDIMENTATION BASINS, BARRIERS, AND ALL APPROPRIATE EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SORT OF SITE DISTURBING.
9. THE CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES WEEKLY AND AFTER ANY STORM EVENT IN EXCESS OF 1/2".
10. SHOULD THE VOLUME, VELOCITY, SEDIMENT LOAD, OR PEAK FLOW RATES OF STORMWATER RUNOFF TEMPORARILY INCREASE DURING CONSTRUCTION, THEN ADDITIONAL MEASURES TO PROTECT ADJACENT PROPERTIES SHALL BE UNDERTAKEN.
11. THE TEMPORARY EROSION MEASURES SHALL REMAIN IN PLACE UNTIL ALL THE PERMANENT EROSION CONTROL ITEMS ARE FULLY FUNCTIONAL.
12. GRAVELED ROADS, ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH, AND VEHICLES WASHDOWN FACILITIES, SHALL BE PROVIDED TO PREVENT THE DEPOSIT OF SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED CONTINUOUSLY.
13. DUST SCREENING SHALL BE PROVIDED ON ALL CONSTRUCTION FENCING.

UTILITY NOTES:

1. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES SHALL BE OBTAINED FROM ALL UTILITY COMPANIES, INVESTIGATED AND VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE STARTING WORK IN THE CONSTRUCTION AREA. EXCAVATION IN THE VICINITY OF EXISTING STRUCTURES SHALL BE PERFORMED BY HAND. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY AND ALL DAMAGES TO EXISTING FACILITIES, MAINTENANCE AND PROTECTION OF EXISTING UTILITIES AND STRUCTURES.
 2. THE CONTRACTOR IS TO UNCOVER ALL LINES BEING TIED INTO AND VERIFY GRADES BEFORE ANY CONSTRUCTION.
 3. EXCEPT WHERE MODIFIED BY THE CONTRACT DOCUMENTS, ALL UTILITY WORK PROPOSED HEREIN SHALL BE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
 - A. CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT "DESIGN GUIDELINES FOR WATER MAIN INSTALLATIONS", LATEST EDITION.
 - B. CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT "REGULATIONS FOR SEWER CONSTRUCTION AND STORMWATER MANAGEMENT", LATEST EDITION.
 - C. ILLINOIS SOCIETY OF PROFESSIONAL ENGINEERS "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", LATEST EDITION.
 4. CALL DIGGER (312) 744-7000 PRIOR TO DIGGING FOR ANY UTILITY CONSTRUCTION.
 5. A WATER MAIN SHALL BE SEPARATED FROM A SEWER SO THAT ITS INVERT IS A MINIMUM OF 18 INCHES ABOVE THE CROWN OF THE SEWER. WHENEVER WATER MAINS CROSS STORM SEWERS, SANITARY SEWERS OR SEWER SERVICE CONNECTIONS, THIS VERTICAL SEPARATION SHALL BE MAINTAINED. A LENGTH OF WATER MAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEWER OR DRAIN. A TEN FOOT HORIZONTAL SEPARATION BETWEEN ALL WATER AND SEWER PIPES SHALL BE MAINTAINED.
 6. WHEN IT IS IMPOSSIBLE TO OBTAIN THE PROPER SEPARATION AS DESCRIBED ABOVE, OR THE WATER MAIN PASSES UNDER A SEWER OR DRAIN, BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION.
- AS-BUILT DRAWINGS MUST BE:
- I. GENERATED BY A SURVEYOR LICENSED IN THE STATE THE PROJECT IS LOCATED.
 - II. MANUFACTURED AS A MARK-UP OF CIVIL ENGINEERING PLANS. IF SURVEY DEVIATES FROM DESIGN, A LINE SHALL BE STRUCK THROUGH THE DESIGN TEXT AND AS-BUILT INFORMATION WRITTEN NEXT TO IT. IF SURVEY MATCHES DESIGN, THE DESIGN TEXT SHALL BE CIRCLED INDICATING FULL COMPLIANCE.

CDWM NOTES:

1. A PERMIT IS REQUIRED FROM THE SEWER UNIT OF THE DEPARTMENT OF BUILDINGS (DOB) PRIOR TO THE CONSTRUCTION OF, OR REPAIRS TO, UNDERGROUND SEWERS, DRAIN CONNECTIONS OR SEWER STRUCTURES, INCLUDING THE ADJUSTMENT OF SEWER STRUCTURES AND REMOVAL/REPLACEMENT OF FRAMES AND LIDS. THE PERMIT MUST BE OBTAINED BY A DRAINLAYER CURRENTLY LICENSED FROM THE SEWER UNIT OF THE DOB.
2. THE SEWER UNIT OF THE DOB MUST BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION, WITH THE NAME AND TELEPHONE NUMBER OF THE RESIDENT ENGINEER WHO COULD BE CONTACTED FOR ANY SEWER EMERGENCY.
3. MANHOLES, CATCH BASINS AND INLETS MUST BE PROTECTED FROM THE ENTRY OF ASPHALT/DEBRIS INTO THE SEWER SYSTEM DURING CONSTRUCTION. THE CONTRACTOR MUST MARK LOCATIONS OF ALL SEWER STRUCTURES ON THE SIDEWALK BEFORE STARTING PAVEMENT REMOVAL/REPLACEMENT. ADJUSTMENT OF FRAMES AND LIDS OF SEWER STRUCTURES MUST BE COMPLETED PRIOR TO STREET RESURFACING.
4. EXISTING SEWERS TO BE ABANDONED MUST BE REMOVED OR FILLED WITH FLOWABLE FILL. SEWERS SMALLER THAN 2'-0" DIAMETER ARE CLOSED WITH A PLUG WHILE 2'-0" DIAMETER AND LARGER ARE CLOSED WITH A BULKHEAD. WITHIN THE CENTRAL BUSINESS DISTRICT, ALL ABANDONED SEWERS MUST BE INJECTED WITH FLOWABLE FILL.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE ADEQUATE PROTECTION OF THE EXISTING SEWERS, DRAIN CONNECTIONS, SEWER STRUCTURES, AND BENCH MONUMENTS DURING CONSTRUCTION OPERATIONS AND USE OF HEAVY EQUIPMENT IN THE LIMITS OF THE PROJECT.
6. EXISTING CATCH BASIN LATERALS TO BE REUSED MUST BE RODDED AND FLUSHED IN THE PRESENCE OF THE SEWER UNIT OF THE DWM INSPECTOR. A NEW CONNECTION TO THE MAIN SEWER IS REQUIRED IF THE EXISTING CATCH BASIN LATERAL IS NOT APPROVED BY THE SEWER INSPECTOR.
7. WHEN A SEWER STRUCTURE IS ABANDONED, ALL PIPE OPENINGS MUST BE PLUGGED. STRUCTURES FILLED WITH TRENCH BACK-FILL, AND LIDS AND FRAMES REMOVED PER THE SEWER UNIT OF THE DWM STANDARDS AND SPECIFICATIONS.
8. THE CONTRACTOR IS REQUIRED TO REPLACE ANY BROKEN FRAMES AND LIDS OF SEWER STRUCTURES WITH STANDARD FRAMES AND LIDS OF THE DWM. IN ADJUSTMENT OR RECONSTRUCTION OF SEWER STRUCTURES, ANY NON-STANDARD FRAMES AND LIDS MUST BE REPLACED WITH STANDARD FRAMES AND LIDS. IN ADJUSTMENT OR RECONSTRUCTION OF INLETS, ANY NON-STANDARD INLETS (GUTTER BOXES) MUST BE REPLACED WITH DWM STANDARD INLETS.
9. THE FRAMES AND LIDS OF SEWER STRUCTURES TO BE ABANDONED, REMOVED, OR FILLED MUST BE SALVAGED AND THE DWM NOTIFIED FOR PICK UP.
10. IN LOCATIONS WHERE THE MAIN SEWER IS NOT BEING REPLACED AND THE EXISTING DRAINAGE FACILITIES ARE DISTURBED OR DAMAGED DURING CONSTRUCTION BY THE CONTRACTOR, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO RESTORE AND REPLACE THE DAMAGED FACILITIES AT HIS/HER EXPENSE TO THE SATISFACTION OF THE DWM.
11. IN CASE OF ANY DAMAGE TO THE CITY'S SEWER SYSTEM, PRIVATE AND PUBLIC DRAIN CONNECTIONS, AND/OR BENCH MONUMENTS, THE CONTRACTOR MUST CONTACT THE SEWER UNIT OF THE DOB IMMEDIATELY AT PHONE NUMBER (312) 744-3351. THE CONTRACTOR MUST, AT HIS/HER COST, REPLACE THE AFFECTED SEWERS, DRAIN CONNECTIONS, SEWER STRUCTURES AND/OR BENCH MONUMENTS AS NECESSARY. THE SEWER FLOWS MUST BE MAINTAINED AT ALL TIMES.
12. ON WORK COMPLETION, THE CONTRACTOR MUST PROVIDE THE SEWER UNIT OF THE DWM, FOR REVIEW AND ACCEPTANCE, A DVD OF THE SEWER MAINS.

DUTY TO INDEMNIFY

THE CONTRACTOR SHALL DEFEND, INDEMNIFY, KEEP SAFE HARMLESS THE MUNICIPALITY, OWNER AND ENGINEER, AND THEIR RESPECTIVE BOARD MEMBERS, REPRESENTATIVES, AGENTS AND EMPLOYEES, IN BOTH INDIVIDUAL AND OFFICIAL CAPACITIES, AGAINST ALL SUITS, CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES, CAUSED BY, GROWING OUT OF, OR INCIDENTAL TO THE PERFORMANCE OF WORK UNDER THE CONTRACT BY THE CONTRACTOR OR ITS SUBCONTRACTORS TO THE FULL EXTENT AS ALLOWED BY THE LAWS OF THE STATE OF ILLINOIS AND NOT BEYOND ANY EXTENT WHICH WOULD RENDER THESE PROVISIONS VOID OR UNENFORCEABLE. THIS OBLIGATION INCLUDES BUT IS NOT LIMITED TO: THE ILLINOIS LAWS REGARDING STRUCTURAL WORK (IL REV. STAT. CH. 48, PAR. 60 AT SEC. 1) AND REGARDING THE PROTECTION OF ADJACENT LANDOWNERS (IL REV. STAT. CH. 17-1/2 PAR. 51 ET. SEQ.). IN THE EVENT OF ANY SUCH INJURY (INCLUDING DEATH) OR LOSS OR DAMAGE, OF CLAIMS THEREFORE, OR CLAIMS THEREFORE, THE CONTRACTOR SHALL GIVE PROMPT NOTICE TO THE OWNER.

AS-BUILT DRAWINGS

- A. CONTRACTOR TO SUBMIT AS-BUILT DRAWINGS TO ENGINEER OF RECORD FOR REVIEW AND APPROVAL AS FOLLOWS:
 - I. WITHIN ONE WEEK OF INSTALLATION OF STORM, SANITARY AND WATER INFRASTRUCTURE AND PRIOR TO ROUGH GRADING ACTIVITIES.
 - II. WITHIN TWO WEEKS OF INSTALLATION OF FINAL GRADING/PAVING.
- B. AS-BUILT DRAWINGS MUST INCLUDE THE FOLLOWING INFORMATION:
 - I. LOCATION OF STORM, SANITARY, AND WATER STRUCTURES, VAULTS, MANHOLES, ETC.
 - II. STRUCTURE RIM AND PIPE INVERT ELEVATIONS, INCLUDING INVERTS AT CAPPED (BURIED) ENDS.
 - III. TOP/BOTTOM OF WATER PIPE ELEVATIONS AT SEWER/STORM CROSSLINGS AND AT STRUCTURES.
 - IV. LOCATION, SIZE, LENGTH AND MATERIAL OF SANITARY, STORM AND WATER PIPING, INCLUDING LOCATION OF BENDS.
 - V. GRADING DETAIL AT THE LEVEL OF DETAIL AND AT THE SCALE(S) SHOWN IN THE CIVIL PLANS, INCLUDING DETAIL ENLARGEMENTS AT 1:5 SCALE.
 - VI. SPOT ELEVATIONS AND CONTOURS.
- C. AS-BUILT DRAWINGS MUST BE:
 - I. GENERATED BY A SURVEYOR LICENSED IN THE STATE THE PROJECT IS LOCATED.
 - II. MANUFACTURED AS A MARK-UP OF CIVIL ENGINEERING PLANS. IF SURVEY DEVIATES FROM DESIGN, A LINE SHALL BE STRUCK THROUGH THE DESIGN TEXT AND AS-BUILT INFORMATION WRITTEN NEXT TO IT. IF SURVEY MATCHES DESIGN, THE DESIGN TEXT SHALL BE CIRCLED INDICATING FULL COMPLIANCE.

Environmental Notes

WARNING: ASBESTOS CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. AN ASBESTOS MANAGEMENT PLAN IS AVAILABLE IN THE SCHOOL FOR REVIEW UPON REQUEST. NO PERSON SHALL DISTURB ASBESTOS CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS ABATEMENT WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH PROJECT SPECIFICATIONS CONTAINING IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH THE APPLICABLE REGULATIONS.

LEAD-BASED PAINT MAY BE PRESENT WITHIN THE BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE APPROPRIATE SAFETY MEASURES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL RULES AND REGULATIONS INCLUDING OSHA 1926.60 COMPLIANCE, WASTE CHARACTERIZATION AND WASTE DISPOSAL. ALL WORK WITH SURFACES CONTAINING LEAD-BASED PAINT SHALL BE DONE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

Professional Stamp



1769, 1819, 1869 W. PERSHING
TUNNEL RENOVATION
1819 W PERSHING ROAD
CHICAGO, ILLINOIS 60609
PUBLIC BUILDING COMMISSION OF CHICAGO
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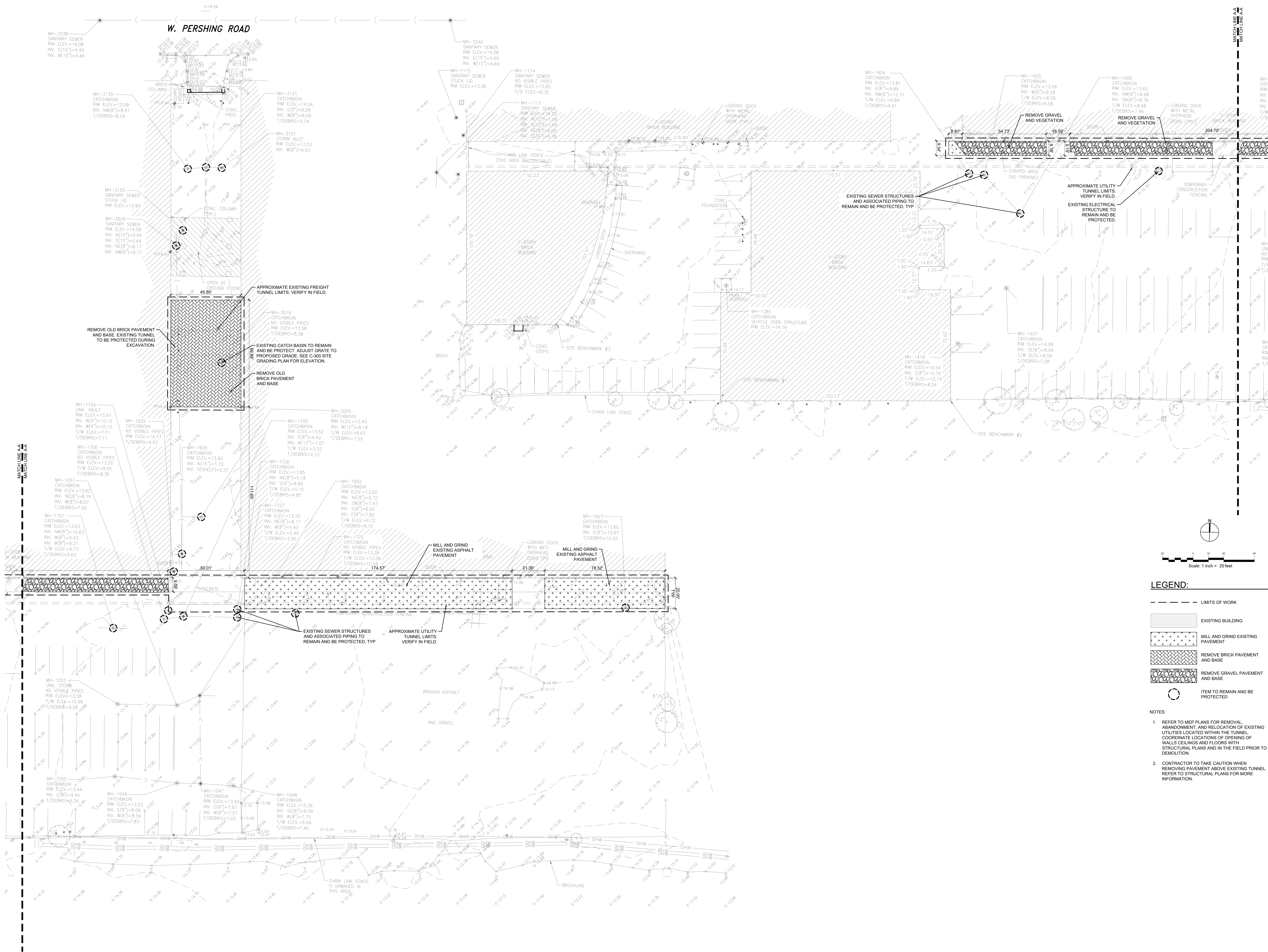
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Issuance		
Mark	Description	Date
01	ISSUE FOR PREBID	10/14/21
02	ISSUE FOR 100% CD Rev	11/09/21

PBC Project Name: 1769, 1819, 1869
Pershing Tunnel Renovation
PBC Contract No:
Project No: #04028
Title

GENERAL NOTES



Environmental Notes

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1819 W PERSHING ROAD
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PUBLIC BUILDING COMMISSION OF CHICAGO
CITY OF CHICAGO, MAYOR LORI LIGHTFOOT

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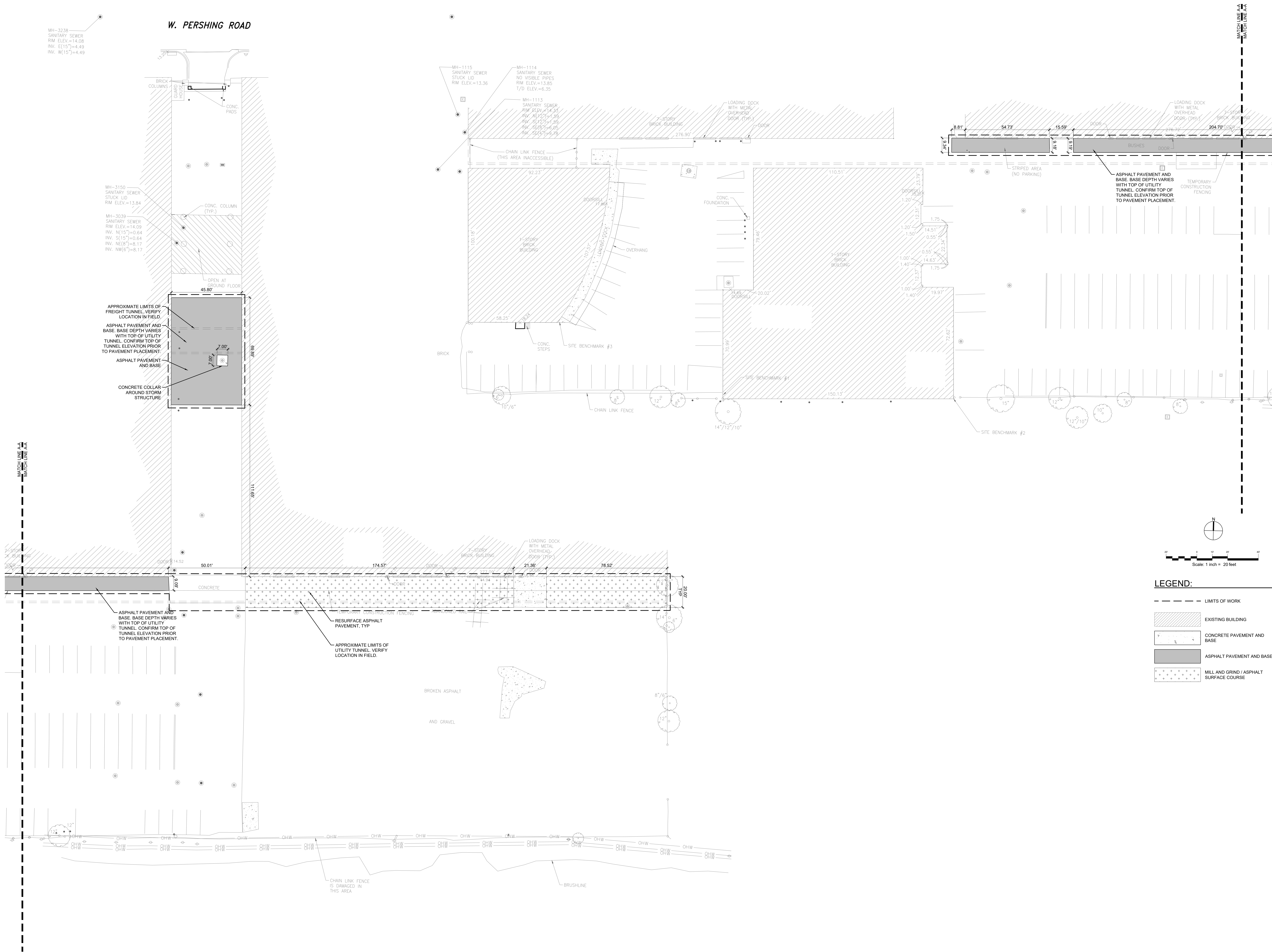
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02	ISSUE FOR 100% CD Rev	11/09/21

PBC Project Name: 1769, 1819, 1869 Pershing Tunnel Renovation
PBC Contract No.:
Project No.: #04028
Title:

SITE DEMOLITION PLAN

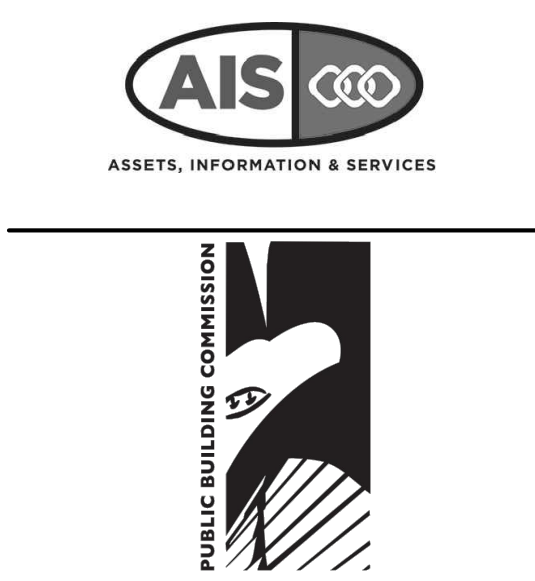


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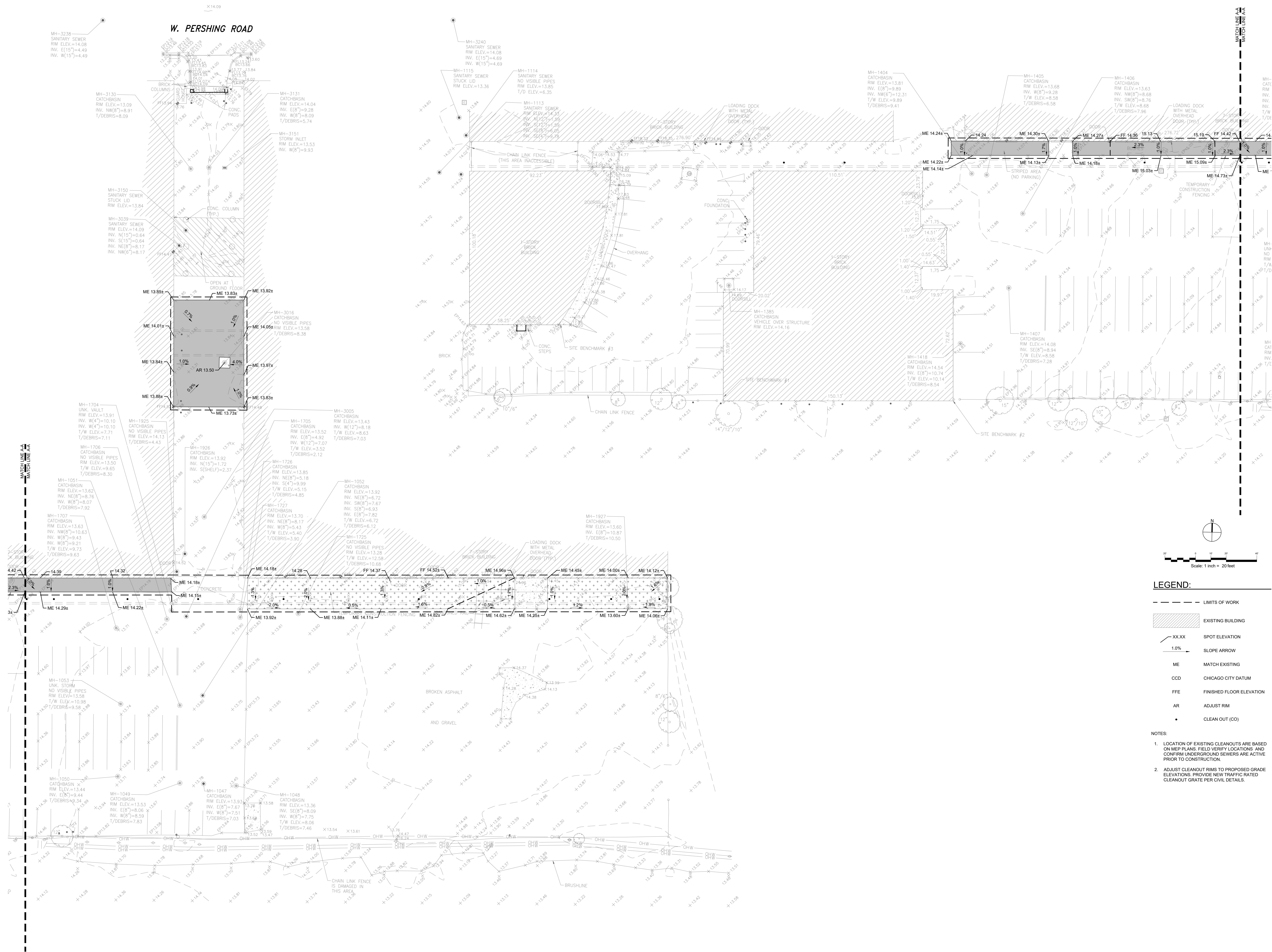
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Title

SITE DIMENSION PLAN



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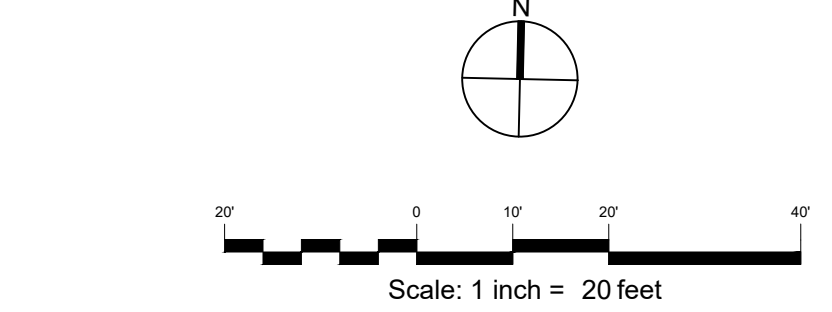
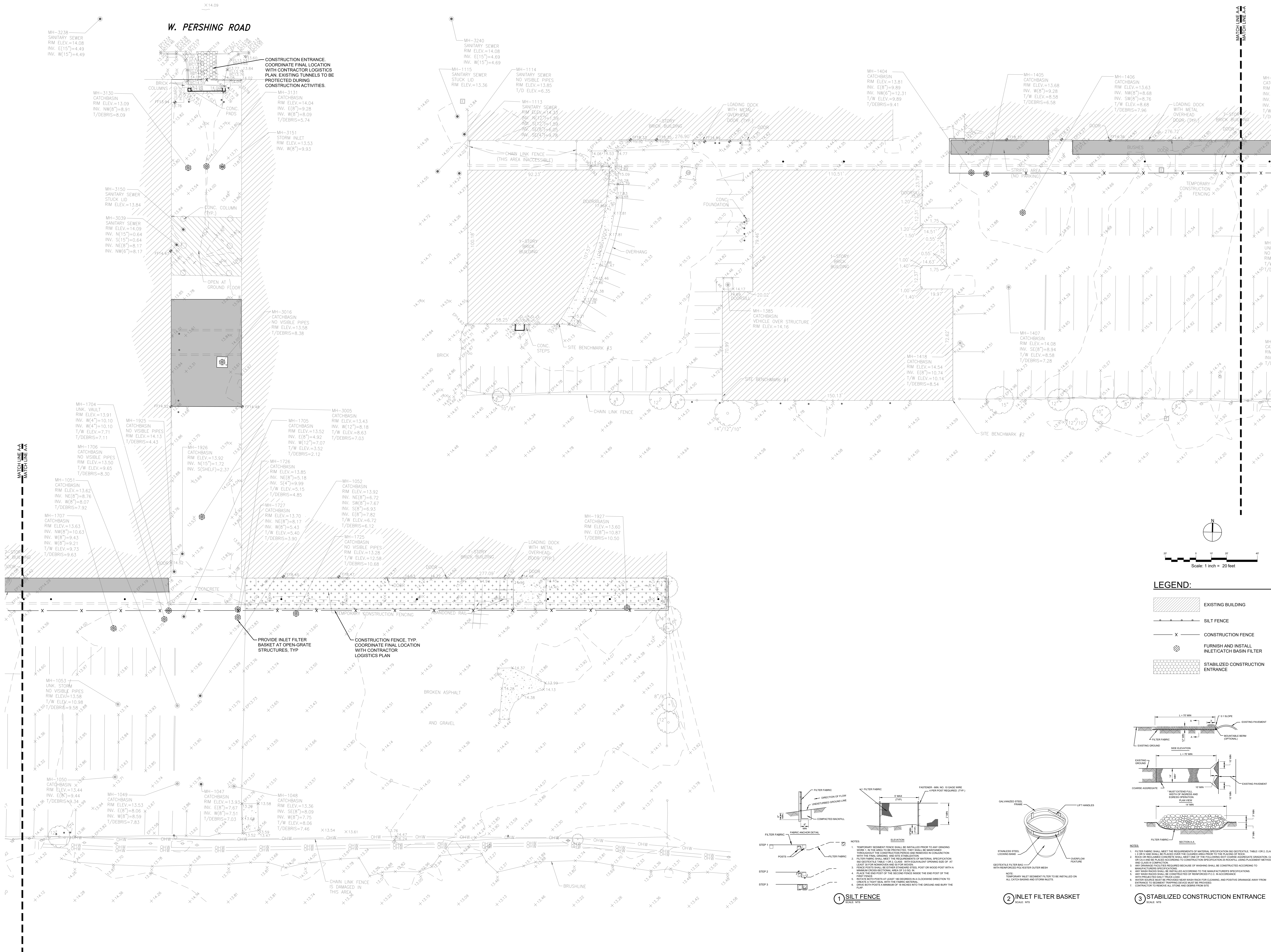
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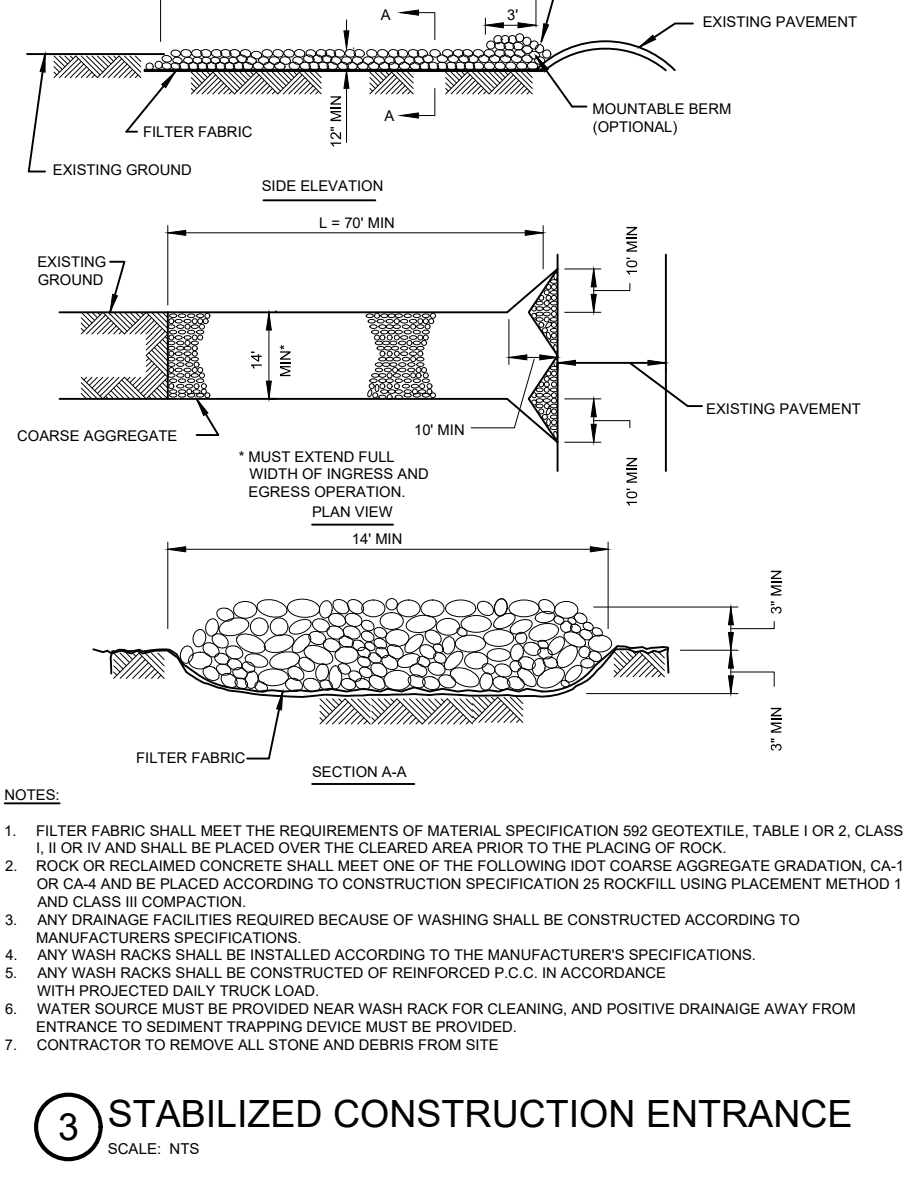
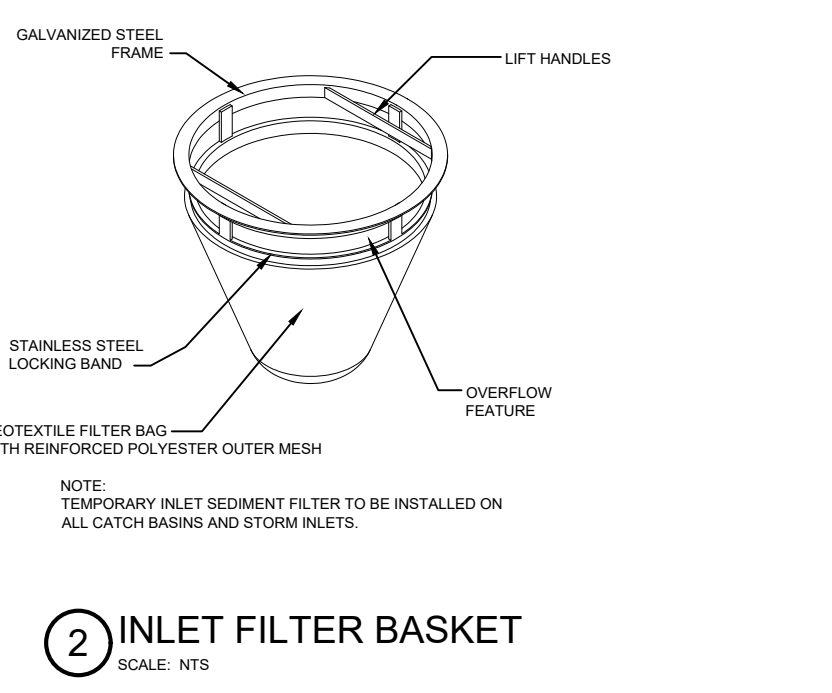
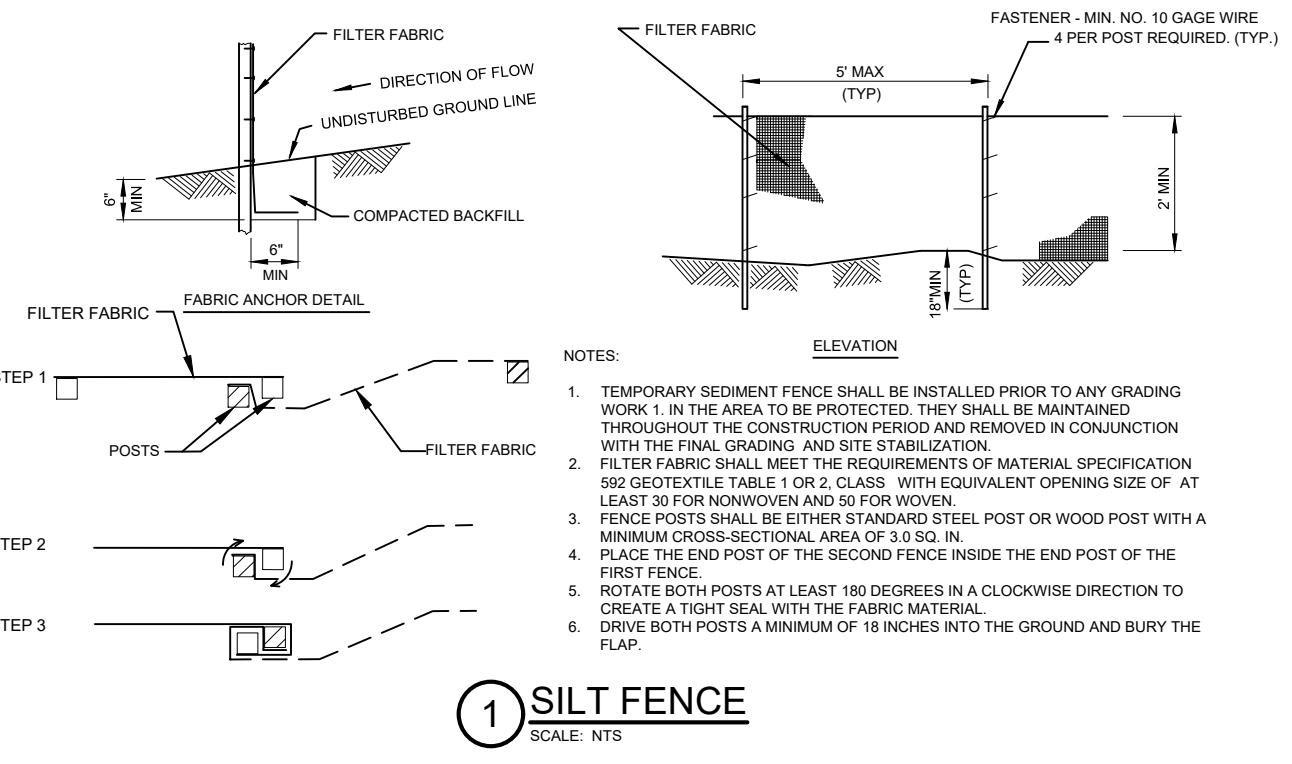
PBC Project Name: 1769, 1819, 1869 Pershing Tunnel Renovation
PBC Contract No.:
Project No.: #04028
Title:

SITE GRADING PLAN

Sheet
C - 300



- LEGEND:**
- EXISTING BUILDING
 - SILT FENCE
 - CONSTRUCTION FENCE
 - FURNISH AND INSTALL INLET/CATCH BASIN FILTER
 - STABILIZED CONSTRUCTION ENTRANCE

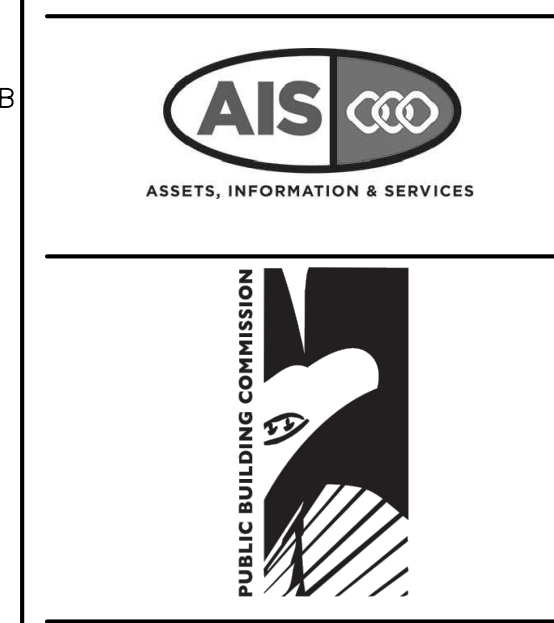


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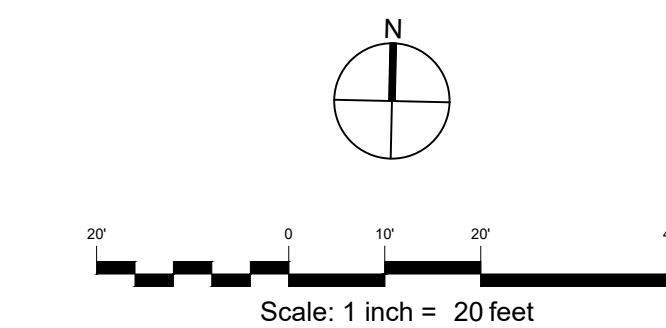
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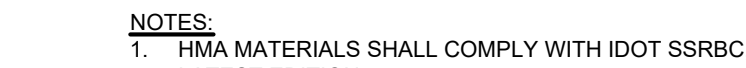
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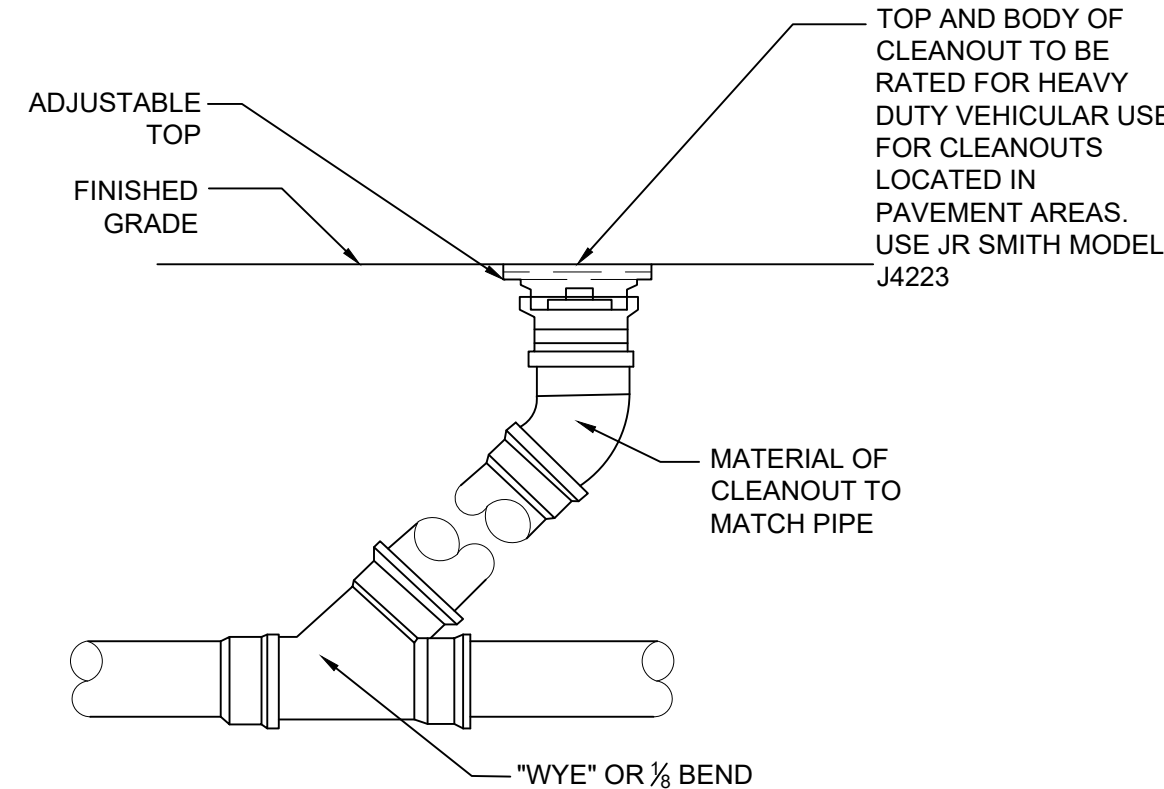
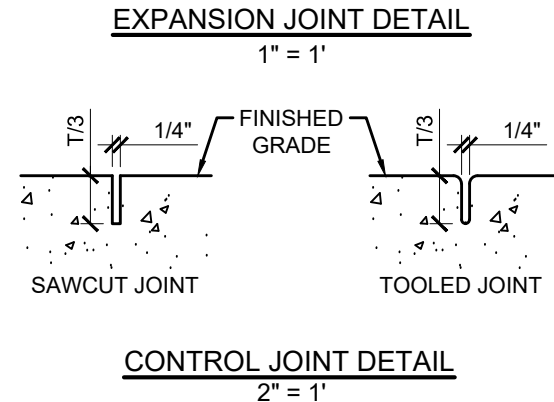
SITE EROSION AND SEDIMENTATION CONTROL PLAN



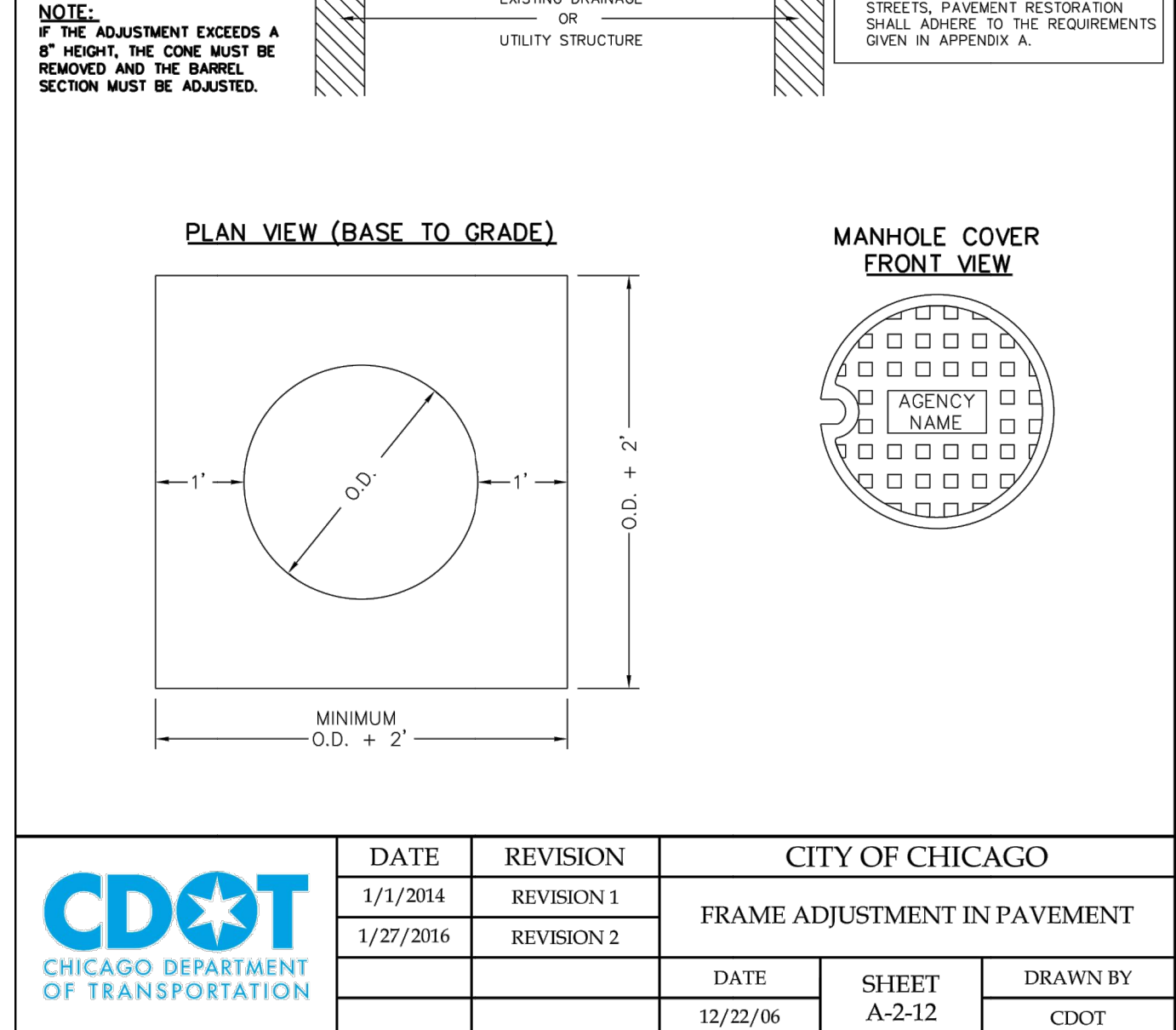
1 HOT MI
SCALE: 1" = 1'-0"



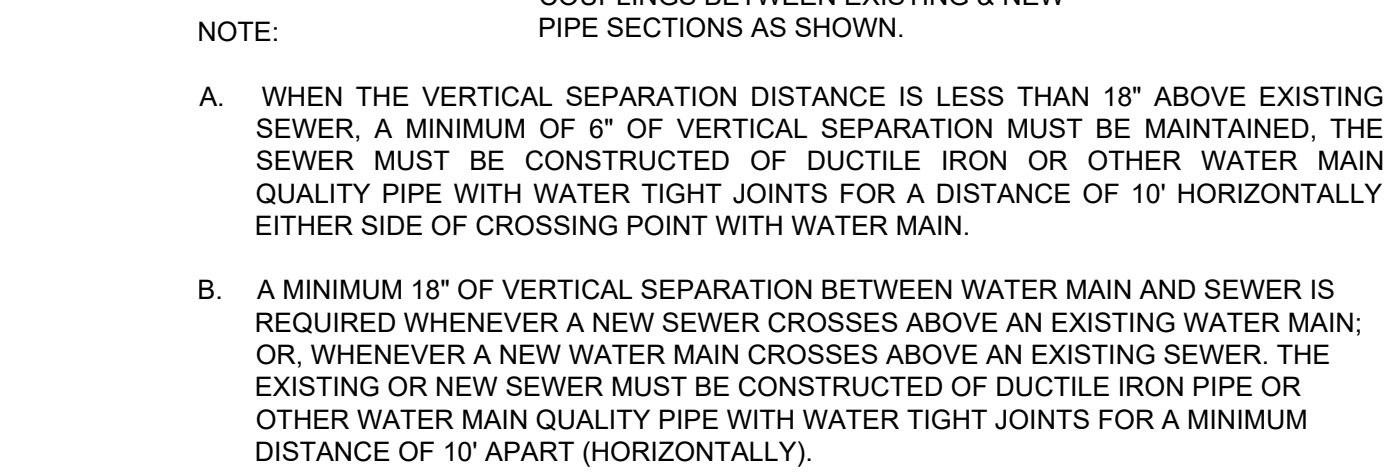
- GENERAL NOTES:**
1. SET WELDED WIRE FABRIC (WWF) IN THE MIDDLE OF PAVEMENT SECTION. MAINTAIN A MINIMUM 2" COVER ON ALL SIDES.
 2. PROVIDE CHAIRS SUPPORTING FOR WELD WIRE FABRIC PER DOT SRRB. PROVIDE CHAIRS TO BE 18" ON CENTER AND ELEVATIONS.
 3. PROVIDE 12" PREFORMED EXPANSION JOINT FILLER WITH LIGHT BROWN FINISH.
 4. PROVIDE 1/2" PREFORMED EXPANSION JOINT WHERE PAVEMENT ABUTS ROAD STRUCTURES.
 5. PROVIDE MINIMUM 4" SLOPE ON FINISH SURFACE FOR POSITIVE DRAINAGE AWAY FROM BUILDINGS TO DRAINAGE STRUCTURES/SYSTEMS.
 6. SET 12" PREFORMED EXPANSION JOINTS @ 60' O.C. OR AS INDICATED ON PLAN. PROVIDE 12" PREFORMED JOINT FILLER 1/2" TO ALLOW FOR APPLICATION OF SEALANT.
 7. SEALANT SHALL BE WATER RESISTANT AND APPLICABLE TO TEMPERATURES FROM -20°F TO 100°F. SEALANT SHALL BE GREEN/GRAY. COLOR TO BE SELECTED BY ENGINEER. SUBMIT PRODUCT DATA TO ENGINEER WITH STANDARD COLOR CHART FOR REVIEW AND APPROVAL.
 8. PROVIDE 10% OF POURED CONCRETE. VERIFY PLANNARITY AND ENSURE NO DEPRESSIONS OR BIRD BATHS WILL RESULT.



3 CLEANOUT



4 FRAME ADJUSTMENT



5 SEPA
SCALE: NTS



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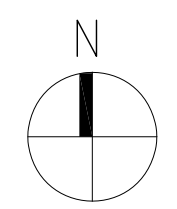
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PBC Project Name:	1769, 1819, 1869 Pershing Tunnel Renovation
PBC Contract No:	
Project No:	#04028
Title	

SITE DETAILS

Sheet

C - 500

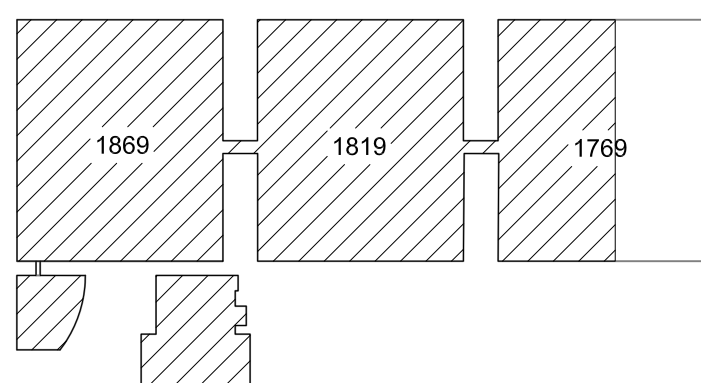
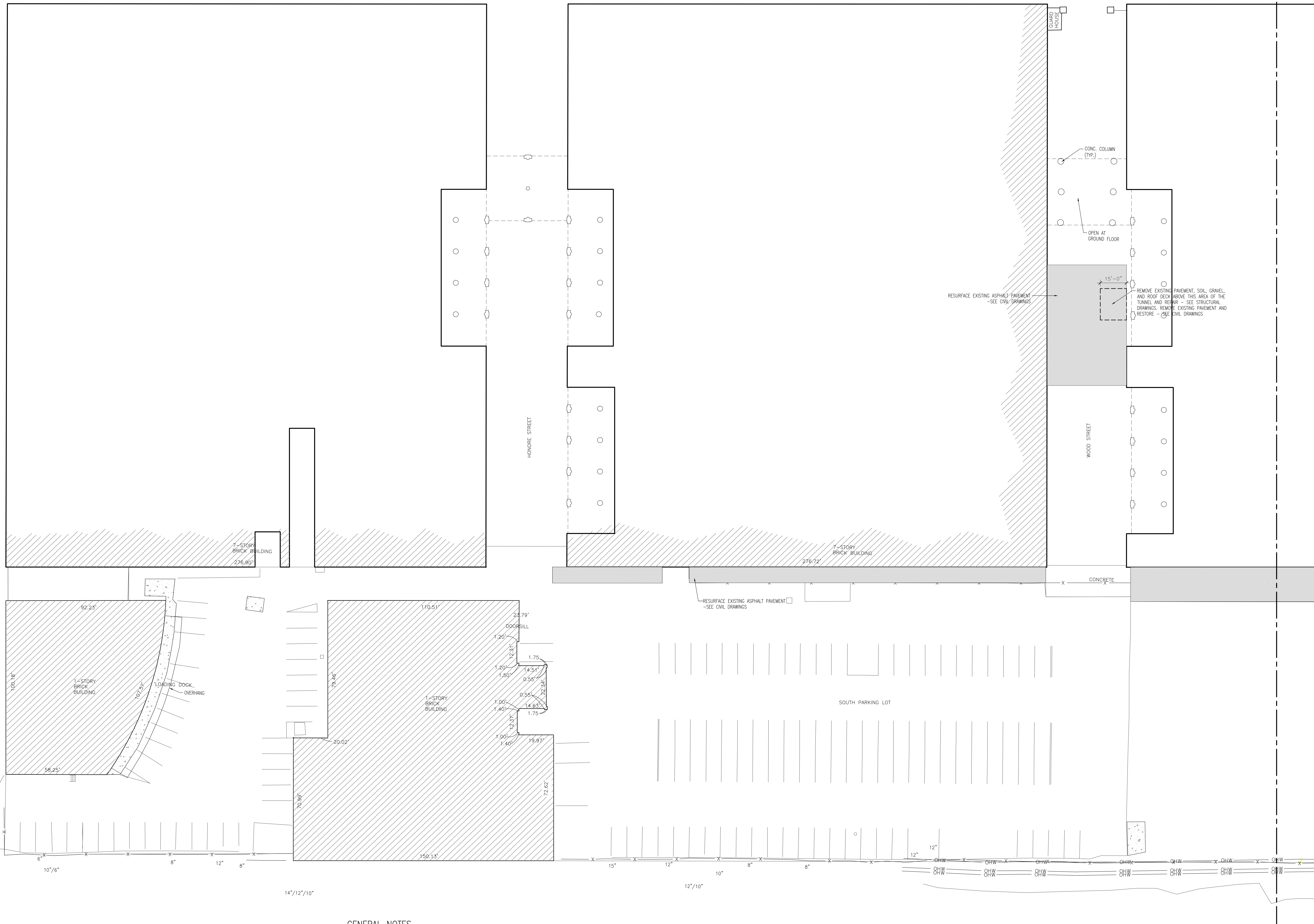


E6 SITE PLAN

SCALE 1" = 20'-0"

GENERAL NOTES

- CONTRACTOR MUST MAINTAIN 5' WIDE PEDESTRIAN ACCESS FROM PARKING LOT TO 1869 WEST PERSHING ENTRANCE ON HONORE STREET FOR CITY EMPLOYEE ACCESS TO BUILDING.
- THROUGHOUT CONSTRUCTION VEHICULAR ACCESS TO THE SOUTH PARKING LOT MUST BE MAINTAINED AT EITHER HONORE STREET OR WOOD STREET.
- CONTRACTOR SHALL PROVIDE TWO WEEK NOTICE FOR MAJOR SHUTDOWNS AND FOLLOWED BY 48 HOUR NOTICE WITH REQUEST FOR FINAL APPROVAL BY CLIENT.
- TEMPORARY SHORING AT THE UTILITY TUNNEL BETWEEN 1869 AND 1819 WEST PERSHING WILL BE REMOVED BY OWNER'S CONTRACTOR WORKING ON SITE. VERIFY DATE WITH ON SITE BUILDING MANAGER. CONTRACTOR TO PROVIDE ITS OWN SHORING AND BRACING.
- CONTRACTOR SHALL PROVIDE A UTILITY SHUTDOWN SCHEDULE AT THE OUTSET OF CONSTRUCTION.
- SALVAGEABLE MATERIALS CURRENTLY LOCATED IN UTILITY TUNNEL SHALL BE RELOCATED BY CONTRACTOR TO CENTER BUILDING BASEMENT AT LOCATION TO BE DETERMINED.
- OWNER'S MATERIAL LOCATED IN EXISTING PARKING LOT / OUTDOOR AREAS THAT INTERFERE WITH CONTRACTOR ACCESS AND OPERATIONS, SHALL BE TEMPORARILY RELOCATED BY CONTRACTOR TO A LOCATION ON THE SITE. LOCATION TO BE DETERMINED BY OWNER.

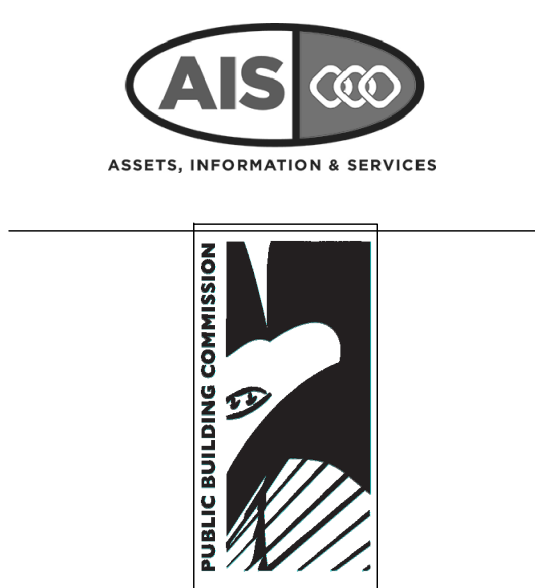


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PBC Contract No:

Project No: #04028

Title

SITE PLAN

Sheet
A-010

GENERAL NOTES

1.

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2.

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3.

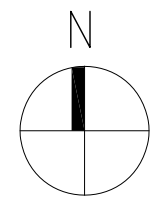
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5.

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6.

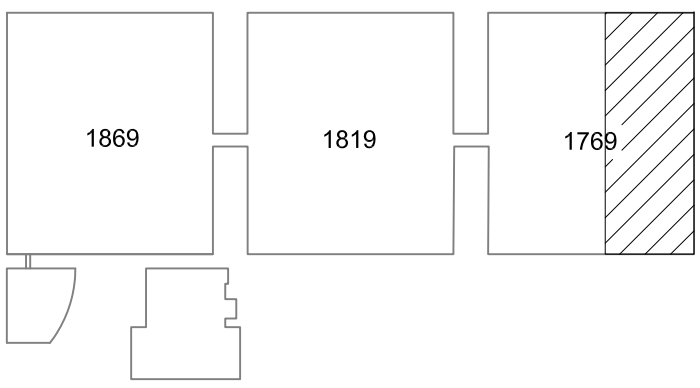
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E2 SITE PLAN

SCALE 1" = 20'-0"

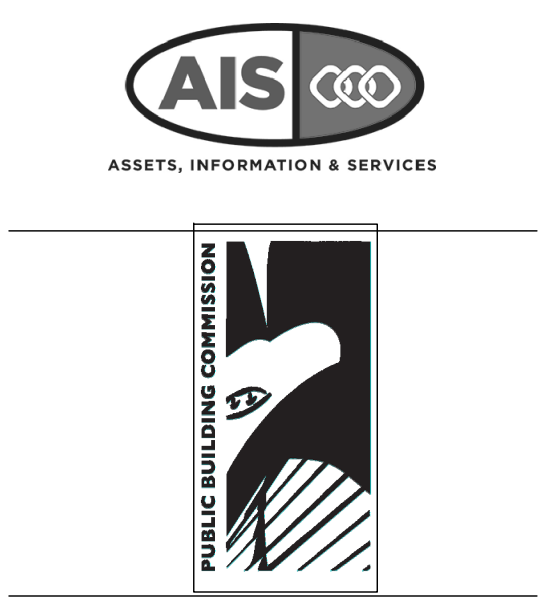


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PBC Contract No:

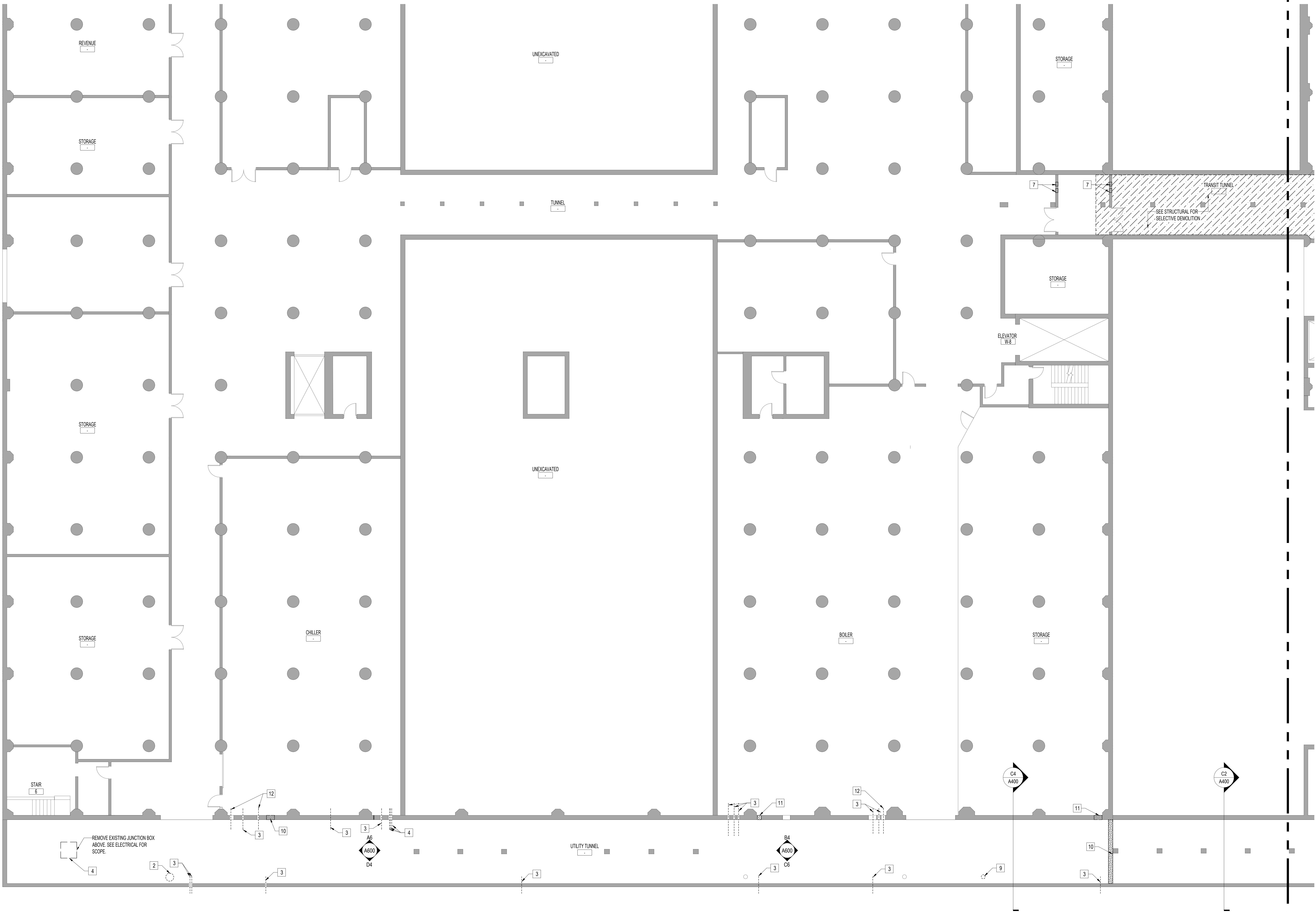
Project No: #04028

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SITE PLAN

Sheet

A-011



1 PARTIAL BASEMENT FLOOR PLAN
1/8"=1'-0"

DEMOLITION KEY NOTES

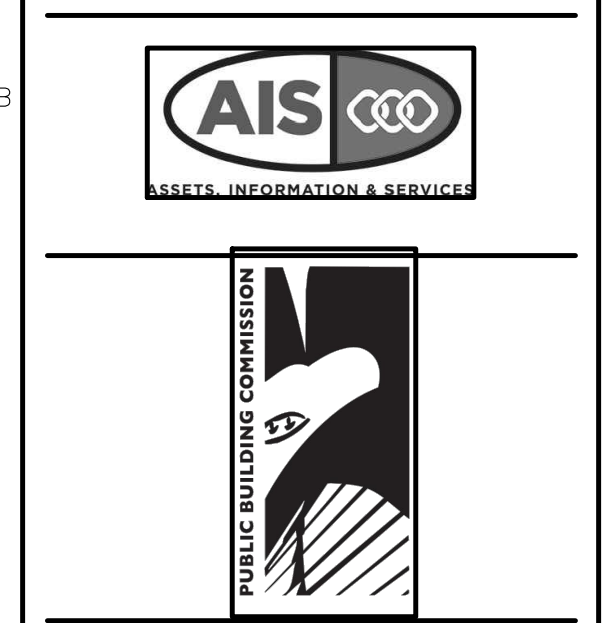
- 1 REMOVE EXISTING DOOR AND FRAME IN ITS ENTIRETY. SEE PLAN FOR NEW WORK.
- 2 REMOVE EXISTING CONDENSATE PUMP AND CONDENSATE LINE. SEE MECH. FOR SCOPE.
- 3 REMOVE PIPING. SEE FIRE PROTECTION, PLUMBING AND MECHANICAL FOR SCOPE.
- 4 REMOVE EXISTING GENERATOR FEED. SEE ELECTRICAL FOR SCOPE.
- 5 REMOVE EXISTING FIRE SHUTTER.
- 6 REMOVE EXISTING WOOD PARTITION.
- 7 EXCAVATE BETWEEN TUNNEL AND EXTERIOR FOUNDATION FOR PIPING CONNECTION. VERIFY LOCATION IN FIELD. SEE PLUMB IN DETAILS.
- 8 PROVIDE SLEEVE FOR PIPING PENETRATION. VERIFY LOCATION IN FIELD. SEE MECHANICAL AND FIRE PROTECTION FOR OPENING SIZE REQUIREMENTS.
- 9 REMOVE AND CAP FLOOR DRAINS. SEE PLUMBING FOR SCOPE.
- 10 REMOVE EXISTING CMU WALL INFILL.
- 11 CORE OPENING FOR NEW PIPING. SEE MEP,FP,PP FOR SCOPE.
- 12 REMOVE EXISTING CONDUIT. SEE ELECTRICAL FOR SCOPE.
- DEMO COORDINATION NOTE: REFER TO MECHANICAL, ELECTRICAL, PLUMBING AND STRUCTURAL DRAWINGS FOR ADDITIONAL DEMOLITION SCOPE. COORDINATE LOCATIONS OF OPENING OF WALLS CEILINGS AND FLOORS IN FIELD PRIOR TO DEMOLITION AND NEW WORK. PROTECT ALL FINISHES TO REMAIN AND PROVIDE NECESSARY TRIM PATCHING AND FINISHES TO RESTORE AREAS OF WORK TO MATCH ORIGINAL CONDITION.
- NOTE: REMOVE PIPING CONDUIT, EQUIPMENT AND DEVICES WITHIN THE UTILITY TUNNEL AT ALL AREAS SEE MEP,FP DRAWINGS FOR SCOPE. ABANDON ITEMS IN PLACE WHERE INDICATED ON MEP,FP DRAWINGS.
- NOTE: REMOVE ALL SUPPORTS FOR EQUIPMENT AND UTILITIES. REMOVE ALL WASTE, DEBRIS, MATERIALS, AND EQUIPMENT IN THE TUNNEL.

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1769, 1819, 1869 W. PERSHING
TUNNEL RENOVATION
1819 W PERSHING ROAD
CHICAGO, ILLINOIS 60609

PUBLIC BUILDING COMMISSION OF CHICAGO
CITY OF CHICAGO, MAYOR LORI LIGHTFOOT

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01	ISSUE FOR PREBID	10/14/21
02	ISSUE FOR 100% CD Rev	11/09/21

PBC Project Name: 1769, 1819, 1869 Pershing Tunnel Renovation

PBC Contract No: #04028

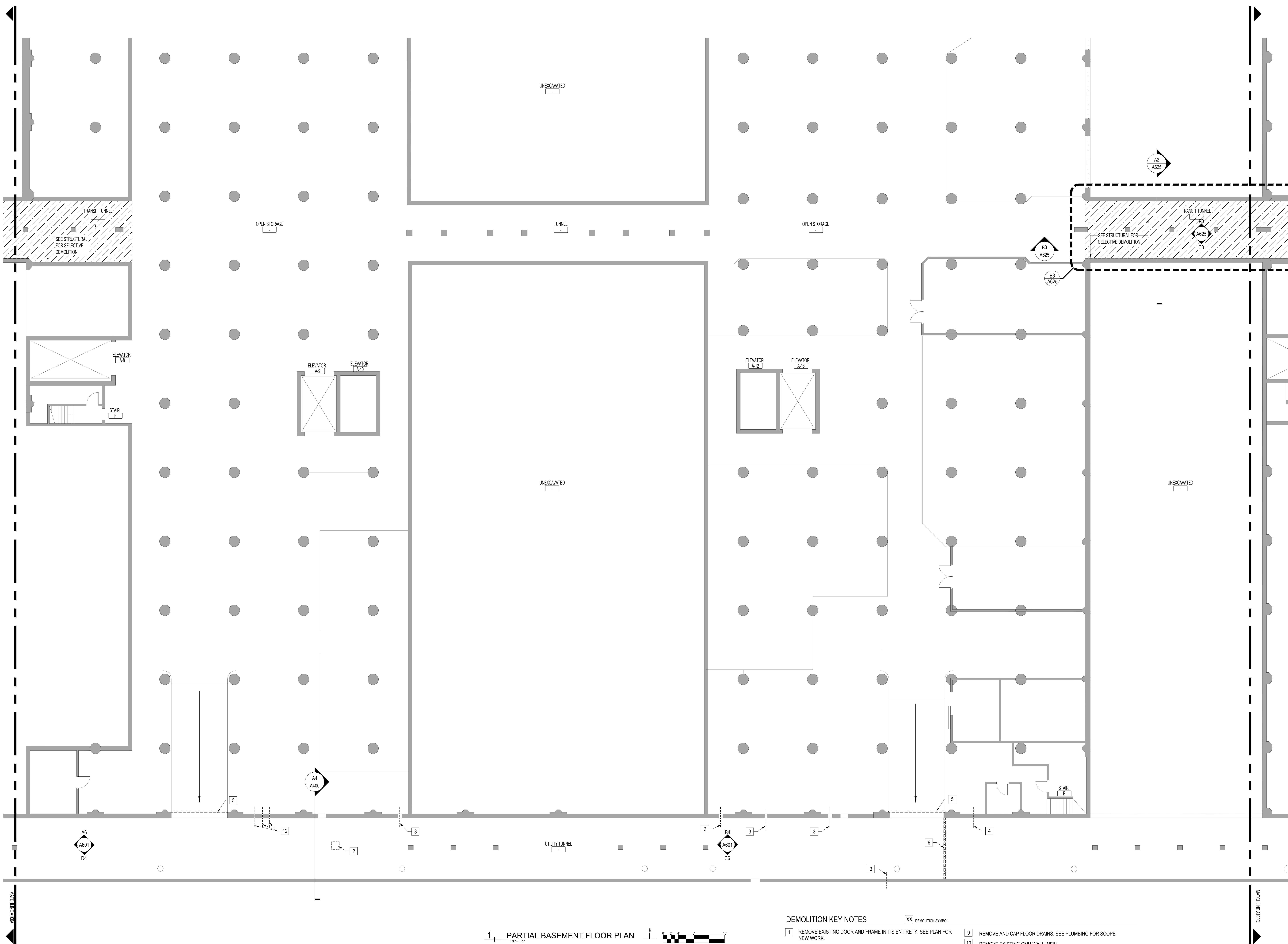
Project No: #04028

Title

1869 BASEMENT AND UTILITY TUNNEL DEMO PLAN

Sheet

AD-100A



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PBC Project Name: 1769, 1819, 1869 Pershing Tunnel Renovation

PBC Contract No: #04028

Project No: #04028

Title

1819 BASEMENT AND UTILITY TUNNEL DEMO PLAN

Sheet

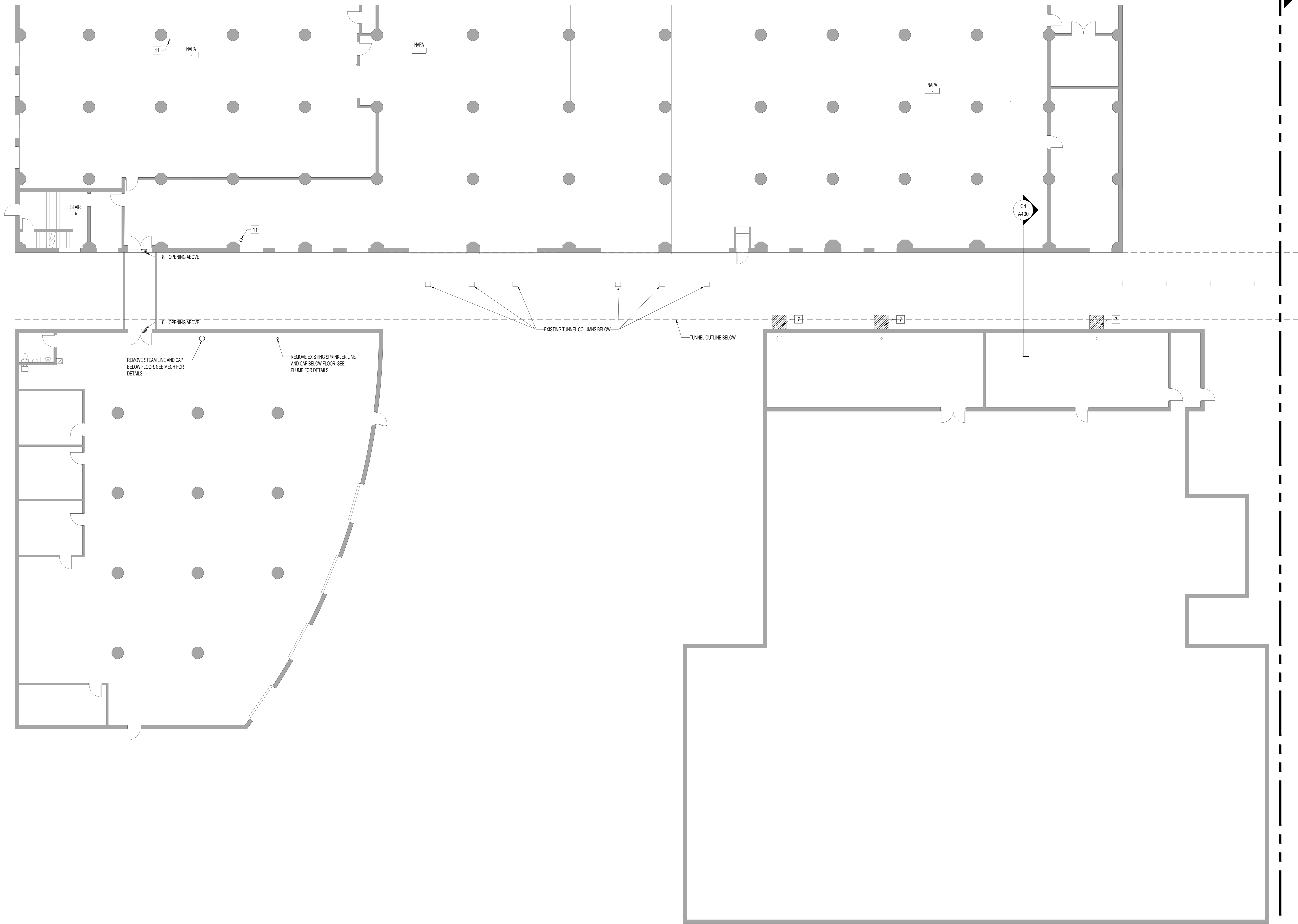
AD-100B



XX DEMOLITION SYMBOL

-

PBC Project Name:	1769, 1819, 1969 Pershing Tunnel Renovation
PBC Contract No:	
Project No:	#D4028
Title	
1769 BASEMENT AND UTILITY TUNNEL DEMO PLAN	
Sheet	
AD-100C	



1 PARTIAL FIRST FLOOR PLAN
1/8"=1'-0"

DEMOLITION KEY NOTES

XX DEMOLITION SYMBOL

- 1 REMOVE EXISTING DOOR AND FRAME IN ITS ENTIRETY. SEE PLAN FOR NEW WORK.
- 2 REMOVE EXISTING CONDENSATE PUMP AND CONDENSATE LINE. SEE MECH. FOR SCOPE
- 3 REMOVE PIPING. SEE FIRE PROTECTION, PLUMBING AND MECHANICAL FOR SCOPE.
- 4 REMOVE EXISTING GENERATOR FEED. SEE ELECTRICAL FOR SCOPE.
- 5 REMOVE EXISTING FIRE SHUTTER.
- 6 REMOVE EXISTING WOOD PARTITION.
- 7 EXCAVATE BETWEEN TUNNEL AND EXTERIOR FOUNDATION FOR PIPING CONNECTION. VERIFY LOCATION IN FIELD. SEE PLUMB IN DETAILS.
- 8 PROVIDE SLEEVE FOR PIPING PENETRATION. VERIFY LOCATION IN FIELD. SEE MECHANICAL AND FIRE PROTECTION FOR OPENING SIZE REQUIREMENTS.

- 9 REMOVE AND CAP FLOOR DRAINS. SEE PLUMBING FOR SCOPE
 - 10 REMOVE EXISTING CMU WALL INFILL.
 - 11 CORE OPENING FOR NEW PIPING. SEE MEP.FP.FP FOR SCOPE
 - 12 REMOVE EXISTING CONDUIT. SEE ELECTRICAL FOR SCOPE.
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Pershing Tunnel Renovation
PBC Contract No: #04028
Project No: #04028
Title

1869 FIRST FLOOR CARPENTER SHOP AND FIRE DEPT. DEMO PLAN

Sheet
AD-101A



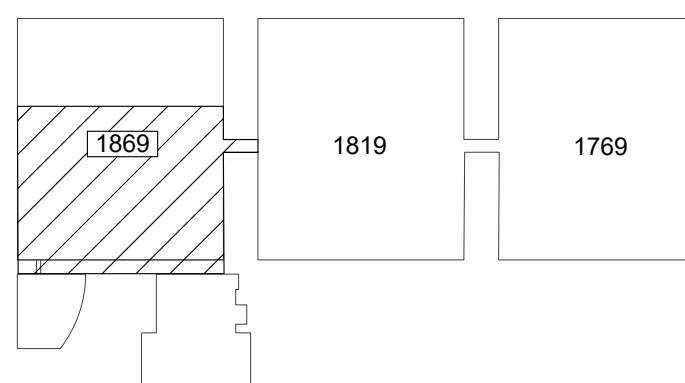
1 PARTIAL BASEMENT FLOOR PLAN
1/8" = 1'-0"



- WALL OPENINGS
CONCRETE INFILL
- RAMP CONCRETE INFILL
- TUNNEL CONCRETE INFILL

KEY NOTES

- PROVIDE CONCRETE INFILL AT EXISTING OPENING. SEE STRUCTURAL FOR DETAILS.
- PROVIDE FIRESTOP AT PLUMBING/MECHANICAL/SPRINKLER PENETRATION. SEE PLUMBING, MECHANICAL, AND FIRE PROTECTION FOR NEW WORK.
- PROVIDE CONCRETE INFILL AT EXISTING RAMP. SEE STRUCTURAL FOR DETAILS.
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- PROVIDE PIPING FOR WATER AND SPRINKLER. SEE PLUMBING AND FIRE PROTECTION FOR DETAILS.
- RESTORE EXISTING PAVEMENT. SEE CIVIL FOR DETAILS.
- GROUT SOLID AROUND MEP/FP PENETRATIONS WITH NONSHRINK EPOXY GROUT.
- PROVIDE CAULK AND SEAL AT OPENING.
- PROVIDE WATERPROOFING MEMBRANE THIS WALL. SEE A400 FOR DETAILS.
- PROVIDE EXTENSION TO EXISTING CATCH BASIN OR CLEANOUT TO SURFACE. SEE PLUMBING FOR DETAILS.



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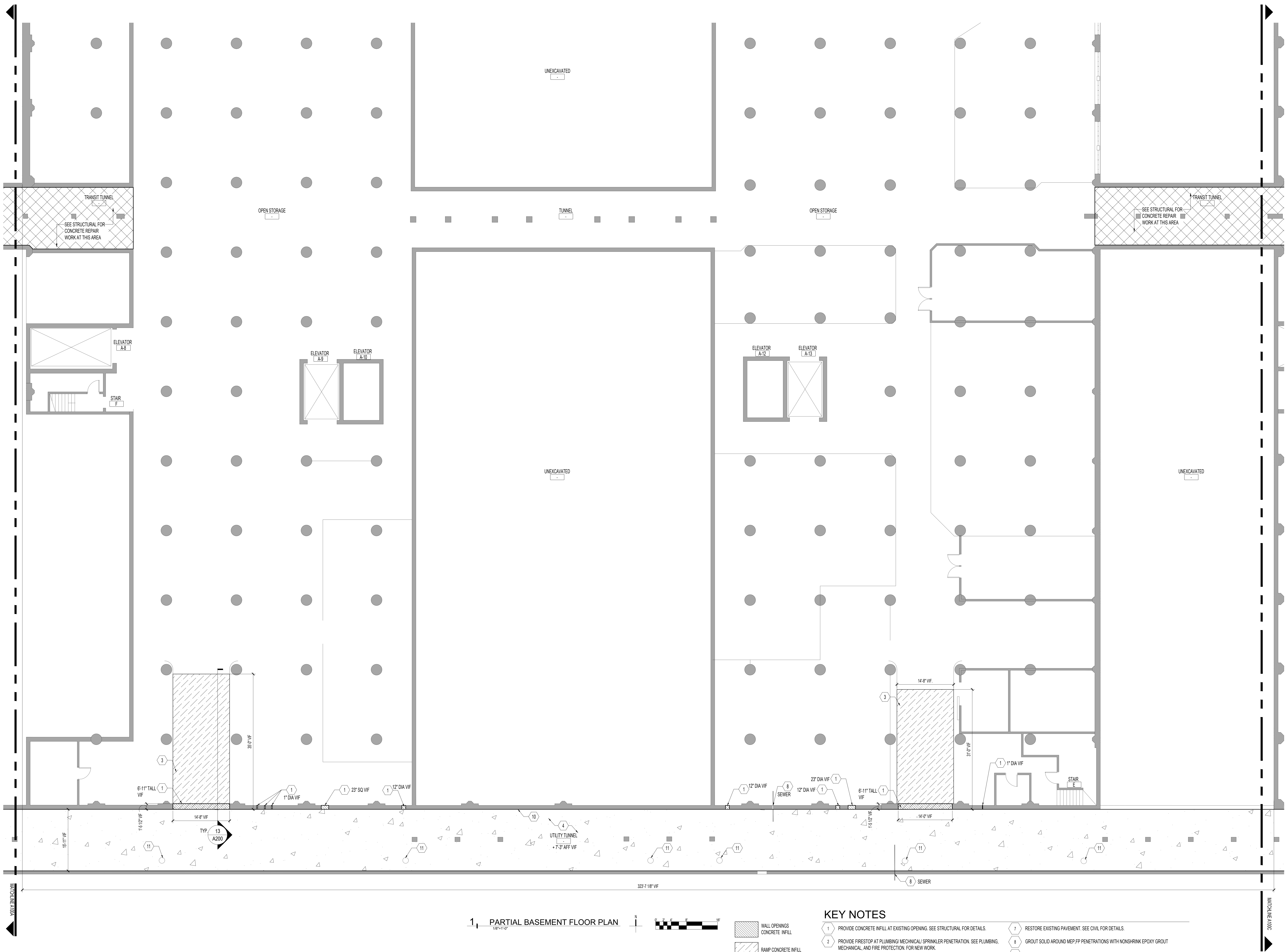
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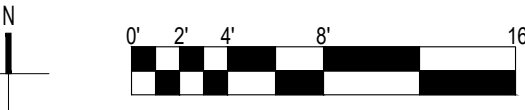
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PBC Project Name: 1769, 1819, 1869 Pershing Tunnel Renovation
PBC Contract No: #04028
Project No: #04028
Title
**1869 BASEMENT
AND UTILITY
TUNNEL**

Sheet
A-100A



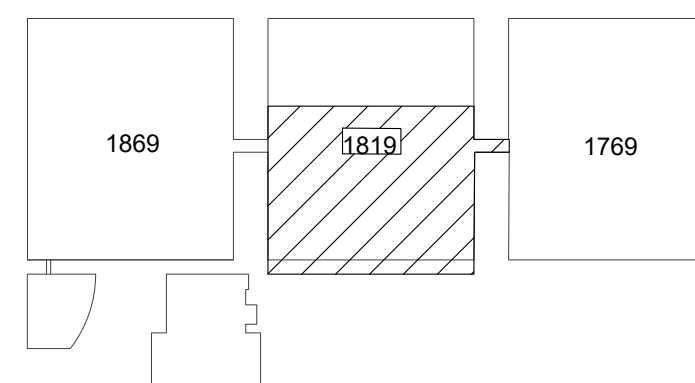
1 PARTIAL BASEMENT FLOOR PLAN
1/8"=1'-0"



- WALL OPENINGS
CONCRETE INFILL
- RAMP CONCRETE INFILL
- TUNNEL CONCRETE INFILL

KEY NOTES

- PROVIDE CONCRETE INFILL AT EXISTING OPENING. SEE STRUCTURAL FOR DETAILS.
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PBC Project Name: 1769, 1819, 1869 Pershing Tunnel Renovation
PBC Contract No: #04028
Project No: #04028
Title
**1819 BASEMENT
AND UTILITY
TUNNEL**
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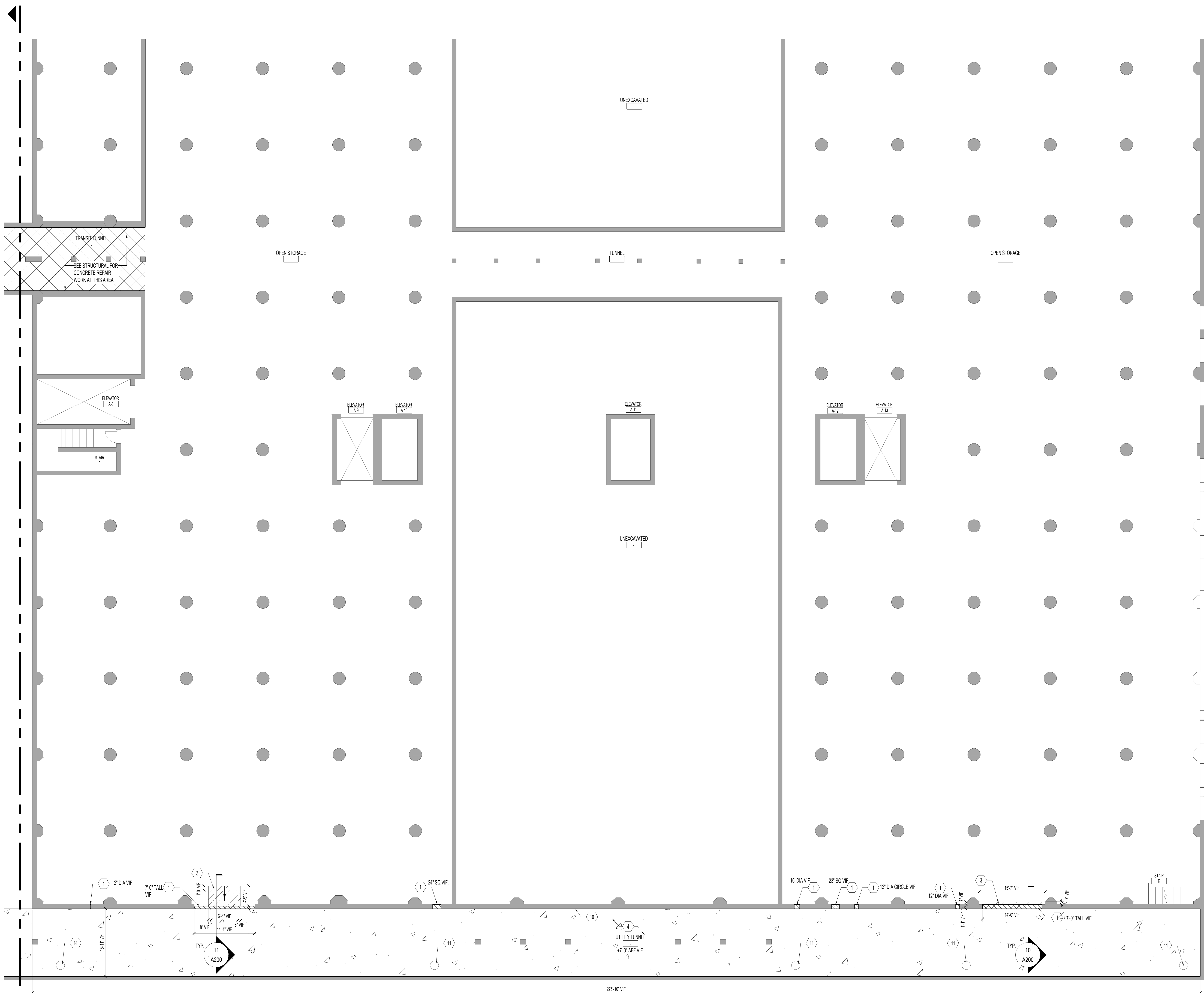
PBC Project Name: 1769, 1819, 1869 Pershing Tunnel Renovation

PBC Contract No: #04028

Project No: 1769

**1769 BASEMENT
AND UTILITY
TUNNEL**

Sheet
A-100C



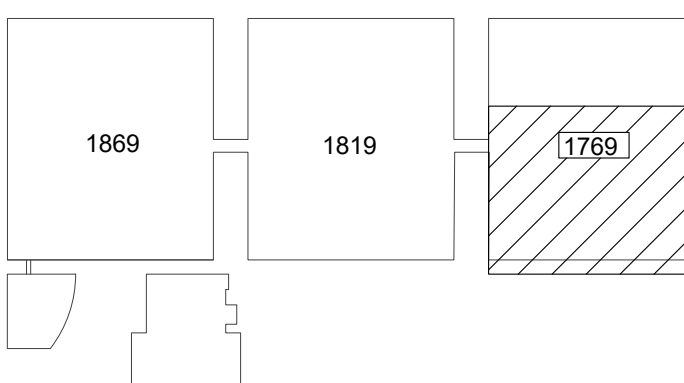
1 PARTIAL BASEMENT FLOOR PLAN
1/8"=1'-0"

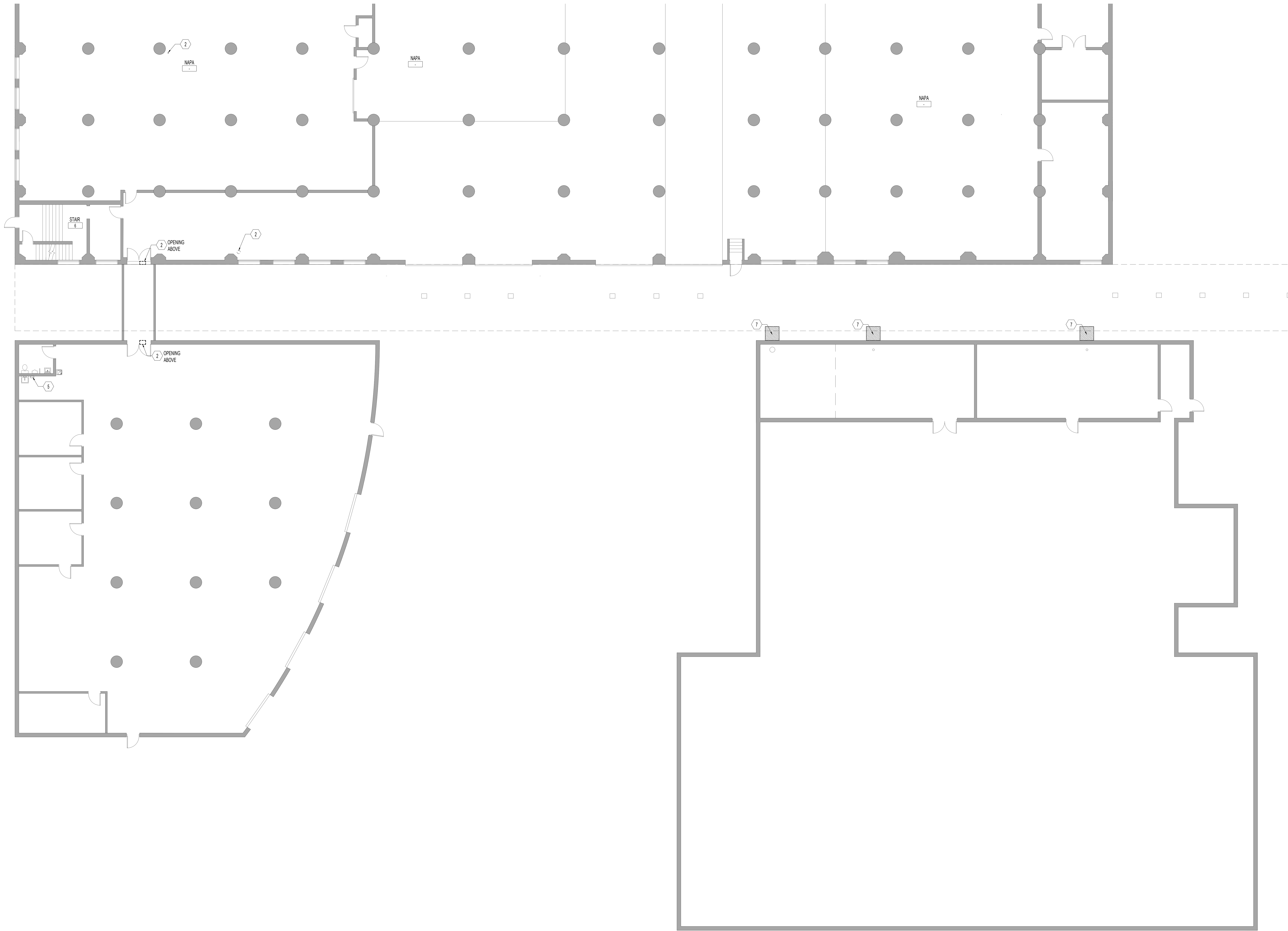


- WALL OPENINGS
CONCRETE INFILL
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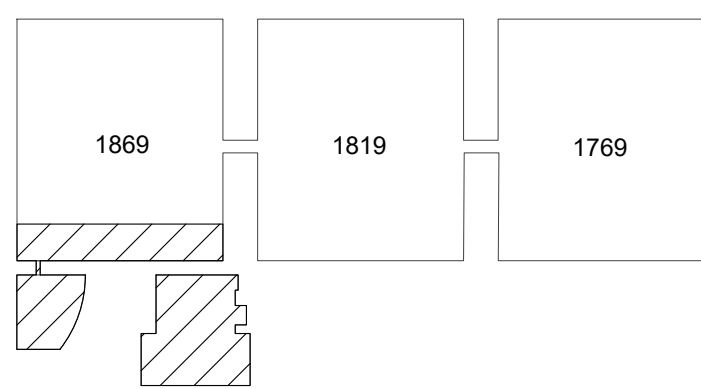




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1/8"=1'-0"

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Pershing Tunnel Renovation
PBC Contract No: #04028
Project No: #04028
Title
**FIRST FLOOR
CARPENTER SHOP
AND FIRE
DEPARTMENT**
Sheet
A-101A

FIRESTOP SEALANT DEPTH

- 2" DEPTH FIRESTOP SEALANT FOR 2" MAX ANNULAR SPACE FOR PIPE/CONDUIT UP TO 30" DIAMETER
- 1/4" DEPTH FIRESTOP SEALANT FOR 1 3/8" MAX ANNULAR SPACE FOR PIPE/CONDUIT UP TO 6" DIAMETER

ANNUAL SPACE DEPTH

- 1 3/8" MAX ANNULAR SPACE FOR PIPE/CONDUIT UP TO 6" DIAMETER
- 2" MAX ANNULAR SPACE FOR PIPE/CONDUIT UP TO 30" DIAMETER

Labels:

- METAL PIPE OR CONDUIT
- FIRE BARRIER CAULK
- 4 1/2" MINIMUM CONCRETE FLOOR OR 6" HOLLOW CORE PRECAST CONC. UNIT
- 1" TO 2" DEPTH PACKING MATERIAL

UL SYSTEM CAJ 1044
FORMERLY 319
A1103004

Diagram illustrating the fire-rated penetration assembly for a steel pipe passing through a concrete floor. The assembly includes the following components and specifications:

- STEEL PIPE
- FIRE BARRIER WRAP/STRIPS
- 4 1/2" MINIMUM CONCRETE FLOOR
- FIRE BARRIER CAULK 1/2" DEPTH
- ANNULAR SPACE DEPTH
 - 1 1/4" MAX ANNULAR SPACE FOR PIPE UP TO 3"
 - 2" MAX ANNULAR SPACE FOR PIPE WITH 2" INSULATION
 - 3" MAX ANNULAR SPACE FOR PIPE UP TO 12" DIAMETER WITH 1" INSULATION

UL SYSTEM CAJ 5002
FORMERLY 91E
A1103006

CABLE BUNDLES

1" DEPTH PACKING MATERIAL

4 1/2" MINIMUM CONC. FLOOR SLAB

8" DIAMETER SCHEDULE 40 STEEL SLEEVE (OPTIONAL) FOR 8" OPENING. PERCENT FILL IS 10% TO 33%

1" DEPTH OF FIRE BARRIER CAULK - WORK IN BETWEEN INDIVIDUAL CABLES IN BUNDLE FOR IMPROVED SMOKE SEAL

UL SYSTEM CAJ 3030
FORMERLY 320
A1103016

The drawing consists of two parts: a cross-section labeled 'SECTION' and a top-down view labeled 'PLAN'.

SECTION: This view shows the vertical assembly. At the bottom is the '4 1/2" MINIMUM CONC. FLOOR SLAB'. Above the slab is a '1" DEPTH OF PACKING MATERIAL'. The cable tray itself is composed of three main layers: a bottom layer of '1" DEPTH OF FIRE BARRIER CAULK WORK IN BETWEEN INDIVIDUAL CABLES IN BUNDLE FOR IMPROVED SMOKE SEAL', a middle layer of 'CABLE BUNDLE APPROX. 2" DIA. SPACED AT 4" TO 8" O.C.', and a top layer of '1" DEPTH OF FIRE BARRIER CAULK WORK IN BETWEEN INDIVIDUAL CABLES IN BUNDLE FOR IMPROVED SMOKE SEAL'. The entire assembly is covered by a 'STEEL COVER PLATE' which is '1" WIDE X 20 GAUGE FIELD FABRICATED STEEL HANGER SPACED AT 8" O.C.'. A dimension of '2"' is shown for the gap between the cable bundles and the cover plate.

PLAN: This view shows the top-down arrangement of the cable bundles. It features a grid of circles representing the cable bundles. A dimension of '2"' is shown between the centers of two adjacent bundles. A circular callout labeled '17' and 'RTE.' is located in the upper right corner. A 'MAXIMUM OPENING' is indicated between two bundles, with dimensions 'SIZE: 10" x 50" CABLE BUNDLES 2" DIA SPACED 4" TO 8"'. A small square symbol is located in the lower right corner.

UL SYSTEM FA 3001
FORMERLY 560
A1103017

METAL PIPE

4 1/2" MINIMUM CONCRETE FLOOR

1/2" DEPTH FIRE BARRIER CAULK OVER PACKING MATERIAL

STEEL COLLAR WITH ANCHOR BOLTS TO CONCRETE & STEEL BAND CLAMP AROUND COLLAR

FIRE BARRIER WRAP STRIPS

UL SYSTEM CAJ 5003
FORMERLY 91C
A1103010

UL SYSTEM FA 5001
FORMERLY 152
41103011

The drawing illustrates a fire-rated floor penetration assembly. The **SECTION** view on the left shows a vertical cable passing through a floor slab. Key components include:

- FIRE BARRIER WRAP/STRIPS** and **FIRE BARRIER COMPOSITE SHEET** on the exterior side.
- MULTIPLE PAIR RISER CABLE** passing through the floor.
- 1/4" BEADS OF FIRE BARRIER CAULK OR PUTTY** applied around the cable.
- 4 1/2" MINIMUM CONC. SLAB OR UL CLASSIFIED CMU WALL ASSEMBLY** forming the floor structure.
- MAX OPENING 240 SQ. IN. WITH MAX DIMENSION OF 30"** for the cable bundle.

 The **PLAN** view on the right shows the top-down layout of the cable bundle:

- MULTIPLE PAIR CABLE** bundle.
- FASTENERS AT 6" O.C. MAX** securing the assembly.
- MIN 5"** spacing between fasteners.
- MAX 3/4"** spacing between fasteners.
- BEAD OF FIRESTOP PUTTY** around the perimeter of the cable bundle.
- 15 MIN 1/2"** dimension for the cable bundle width.
- MINIMUM 2" WIDE STEEL COVER STRIP** at the edges.

UL SYSTEM CAJ 3044
FORMERLY 447
A1103018

EXISTING MASONRY WALL

EXISTING PAVEMENT
EXISTING CONCRETE SLAB

GRADE VARIES

B/ ROOF SLAB
+7'-3"

PROVIDE WATERSTOP BETWEEN
EXISTING CONCRETE AND
CONCRETE INFILL. SEE
STRUCTURAL FOR DETAILS.

CONCRETE INFILL. SEE
STRUCTURAL FOR
DETAILS.

1'-1" VIF

UTILITY TUNNEL

7'-0" VIF

BASEMENT

PROVIDE WATERSTOP BETWEEN
EXISTING CONCRETE AND
CONCRETE INFILL. SEE
STRUCTURAL FOR DETAILS.

CONCRETE INFILL AND LE
SURFACE. SEE STRUCTU
FOR DETAILS

7" VIF

EXISTING CONCRETE
FLOOR

10" VIF

T/ FLOOR
+0'-0"

EXISTING MASONRY WALL

EXISTING PAVING
EXISTING CONCRETE SLAB

GRADE VARIES

B/ ROOF SLAB
+7'-3"

UTILITY TUNNEL

6'-11" VF

1'-9" VF

10" VF

T/ FLOOR
+0'-0"

PROVIDE WATERSTOP BETWEEN EXISTING CONCRETE AND CONCRETE INFILL. SEE X1A00X FOR DETAILS.

CONCRETE INFILL. SEE STRUCTURAL FOR DETAILS.

BASEMENT

9
A200

CONCRETE INFILL AND LEVEL SURFACE. SEE STRUCTURAL FOR DETAILS.

PROVIDE WATERSTOP BETWEEN EXISTING CONCRETE AND CONCRETE INFILL. SEE STRUCTURAL FOR DETAILS.

9. TYP. JAMB DETAIL

1"=1'-0"

EXISTING PAVING

EXISTING CONCRETE SLAB

GRADE VARIES

B/ ROOF SLAB
+7'-3"

T/ FLOOR
+0'-0"

EXISTING MASONRY WALL

6'-0" VF

1'-1" VF

UTILITY TUNNEL

BASEMENT

PROVIDE WATERSTOP BETWEEN EXISTING CONCRETE AND CONCRETE INFILL. SEE STRUCTURAL FOR DETAILS.

CONCRETE INFILL. SEE STRUCTURAL FOR DETAILS.

PROVIDE WATERSTOP BETWEEN EXISTING CONCRETE AND CONCRETE INFILL. SEE STRUCTURAL FOR DETAILS.

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TUNNEL RENOVATION**
1819 W PERSHING ROAD
CHICAGO, ILLINOIS 60609

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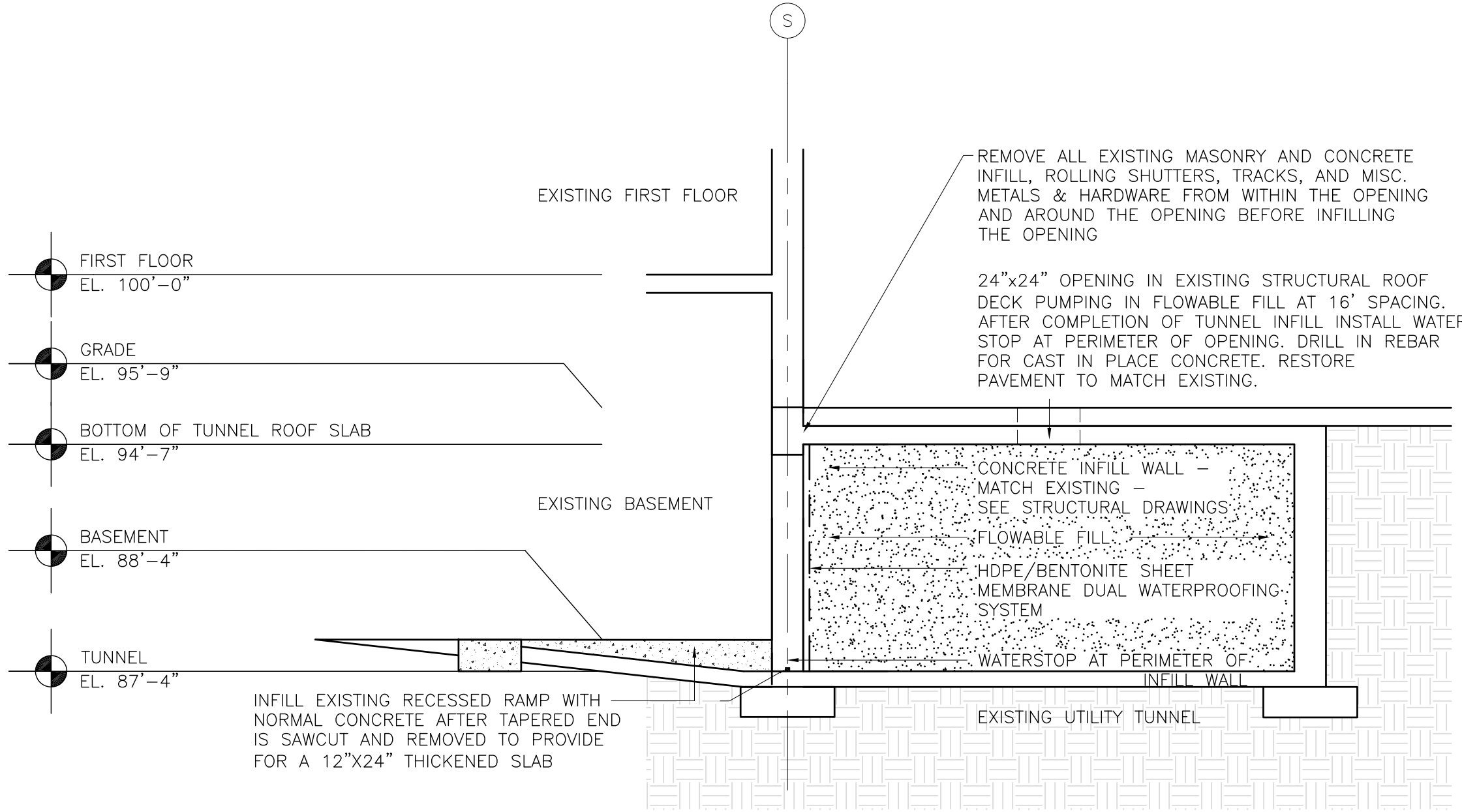
Issuance		
Mark	Description	Date
01	ISSUE FOR PREBID	10/14/21
02	ISSUE FOR 100% CD Rev	11/09/21

PBC Project Name: 1769,1819,1869
Pershing Tunnel Renovation

PBC Contract No: _____
Project No: #04028

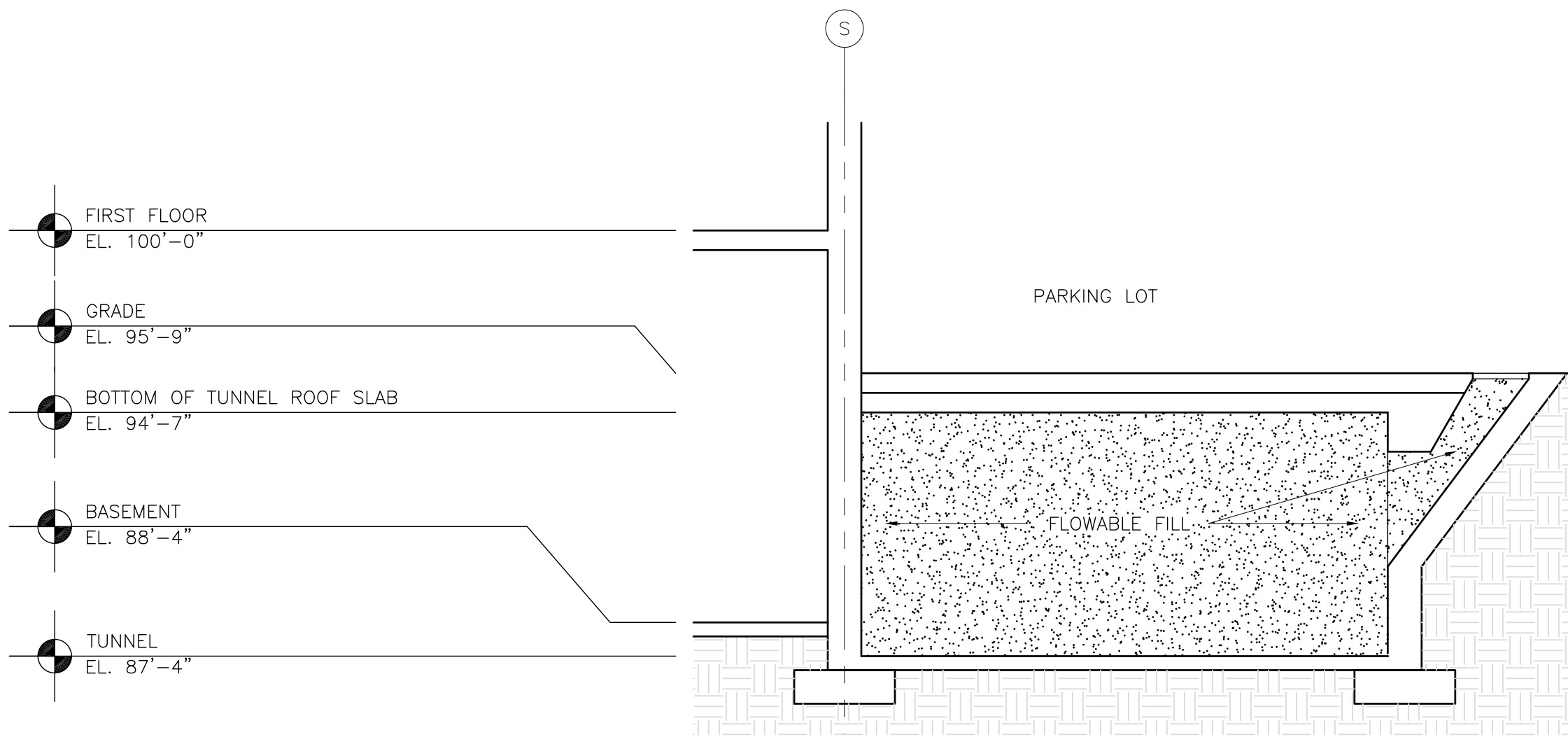
SECTION DETAILS AND FIRESTOP DETAILS

Sheet
A-200



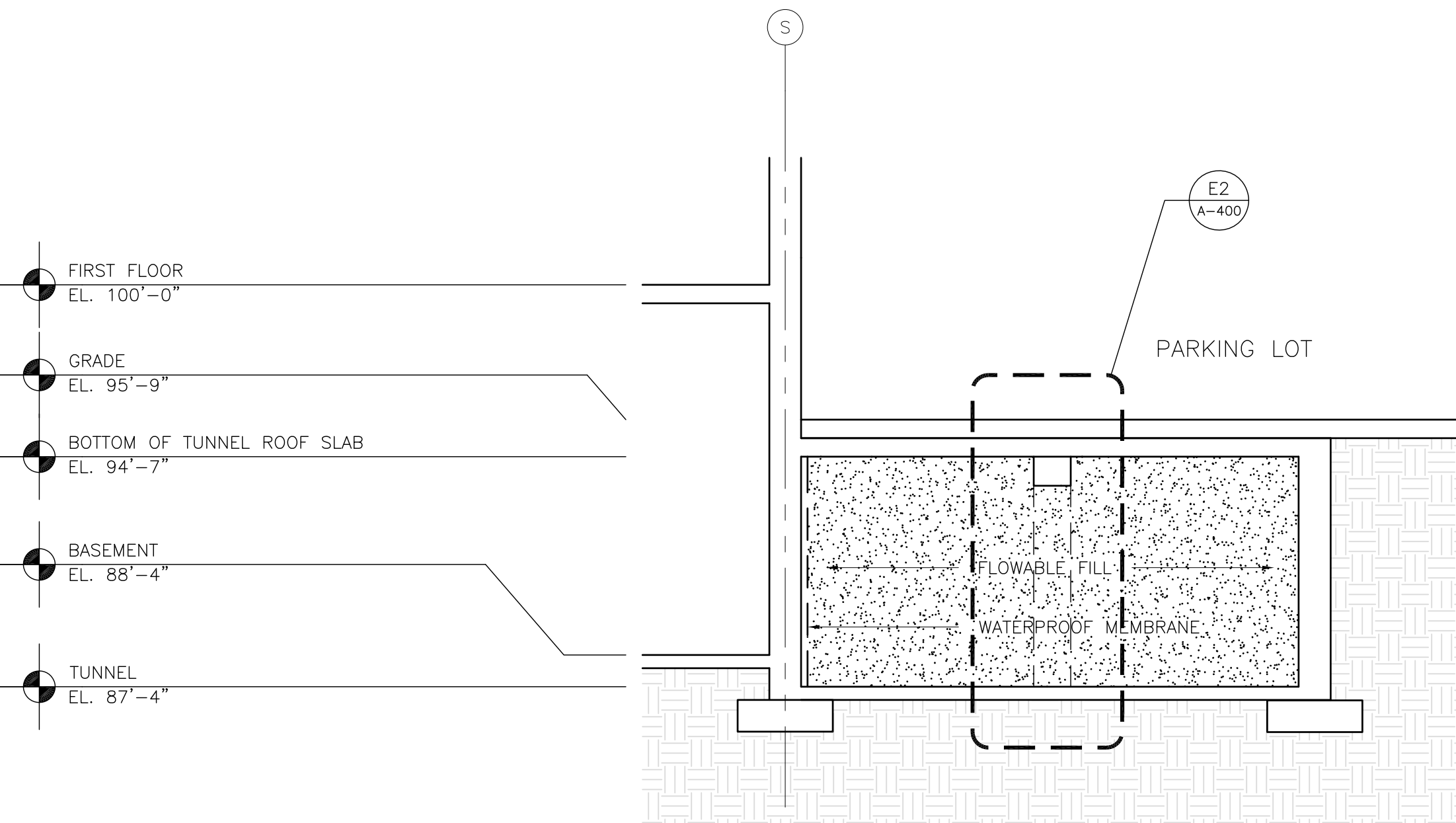
A6 UTILITY TUNNEL SECTION AT OPENING

SCALE 1/4" = 1'-0"



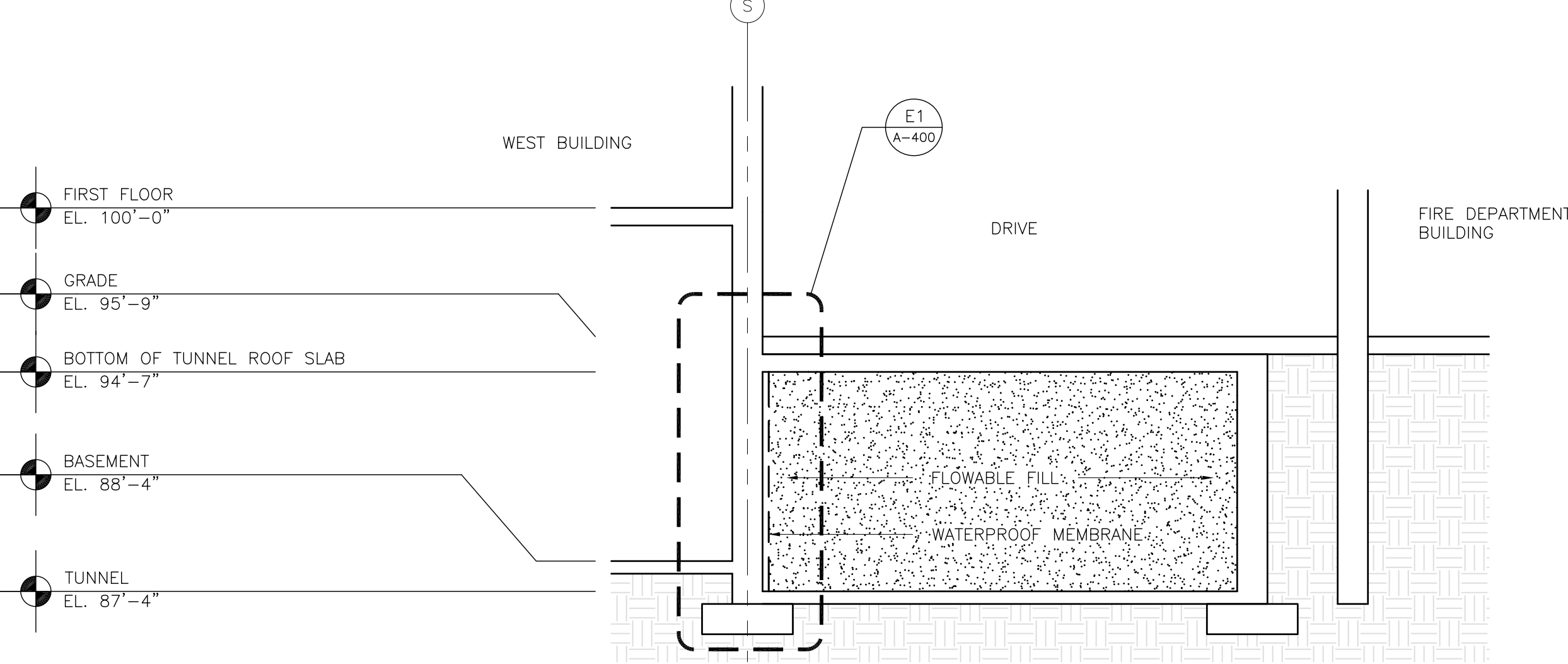
C6 UTILITY TUNNEL SECTION AT EXISTING CHUTE

SCALE 1/4" = 1'-0"



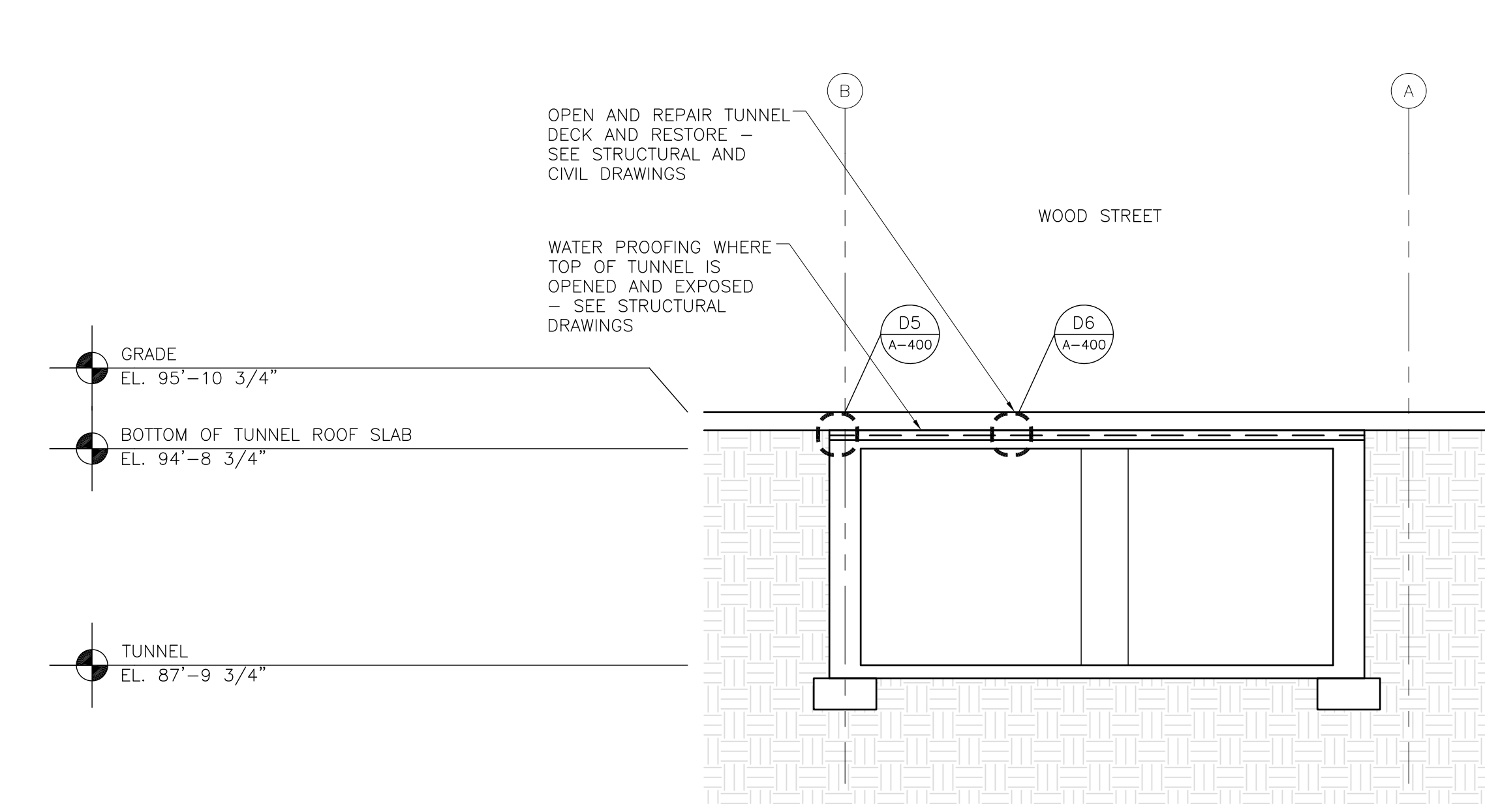
A4 UTILITY TUNNEL TRANSVERSE SECTION

SCALE 1/4" = 1'-0"



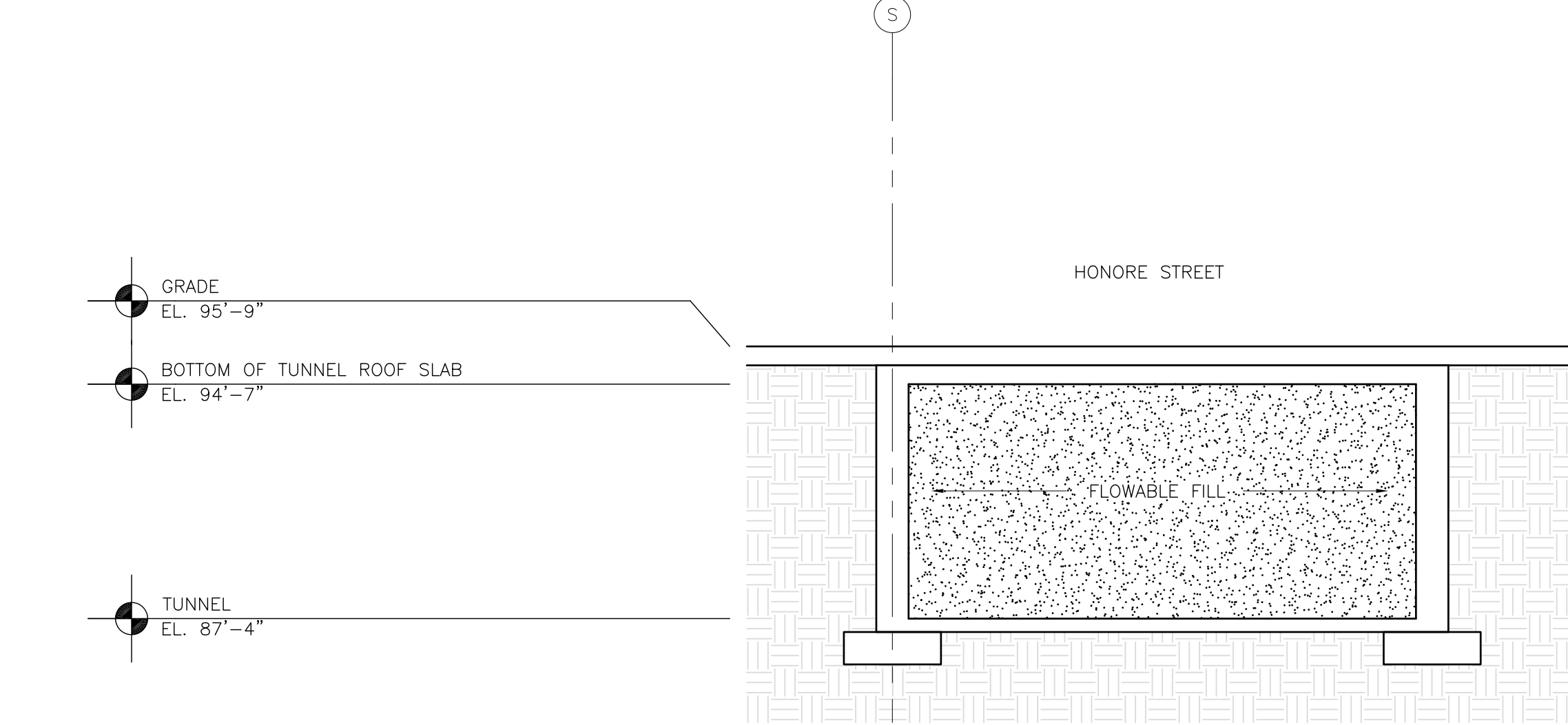
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SCALE 1/4" = 1'-0"



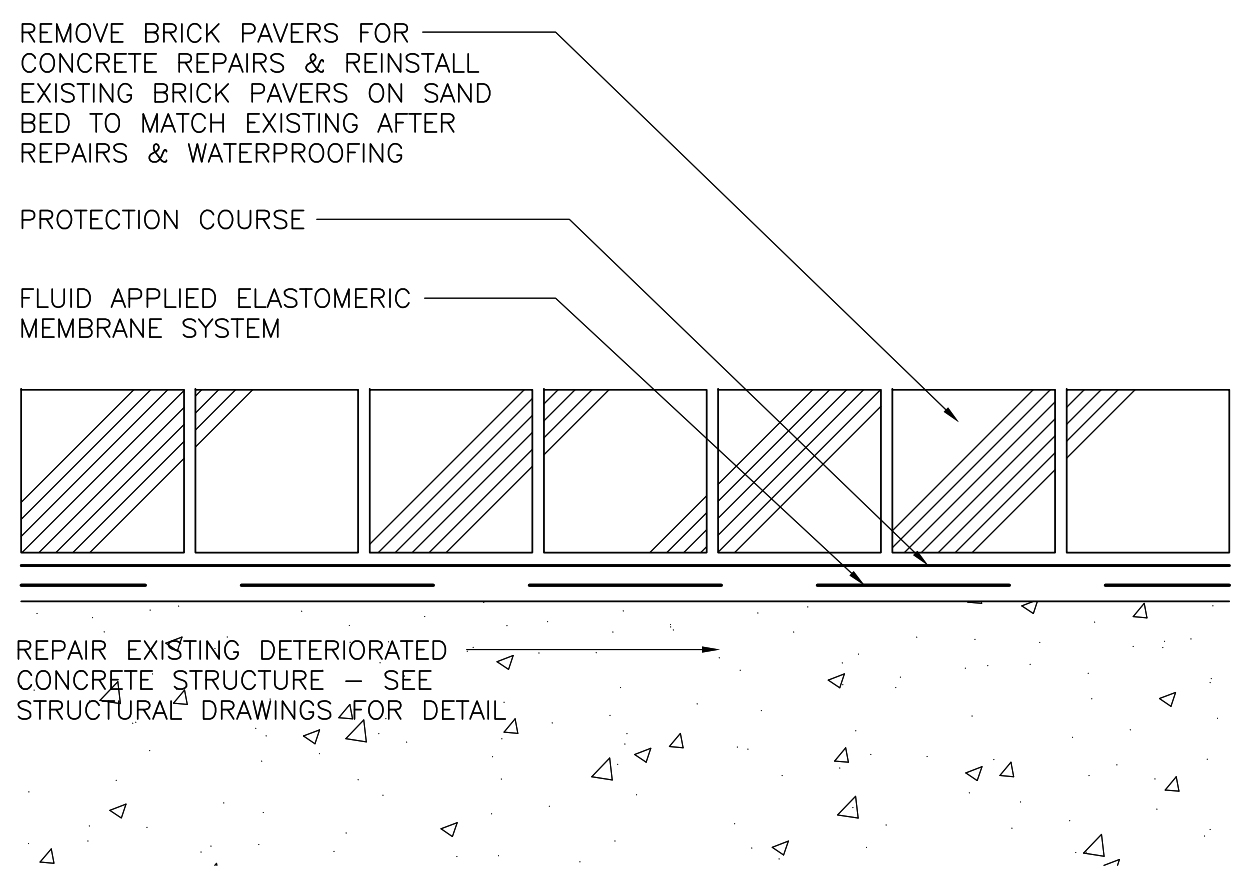
A2 TRANSIT TUNNEL TRANSVERSE SECTION

SCALE 1/4" = 1'-0"



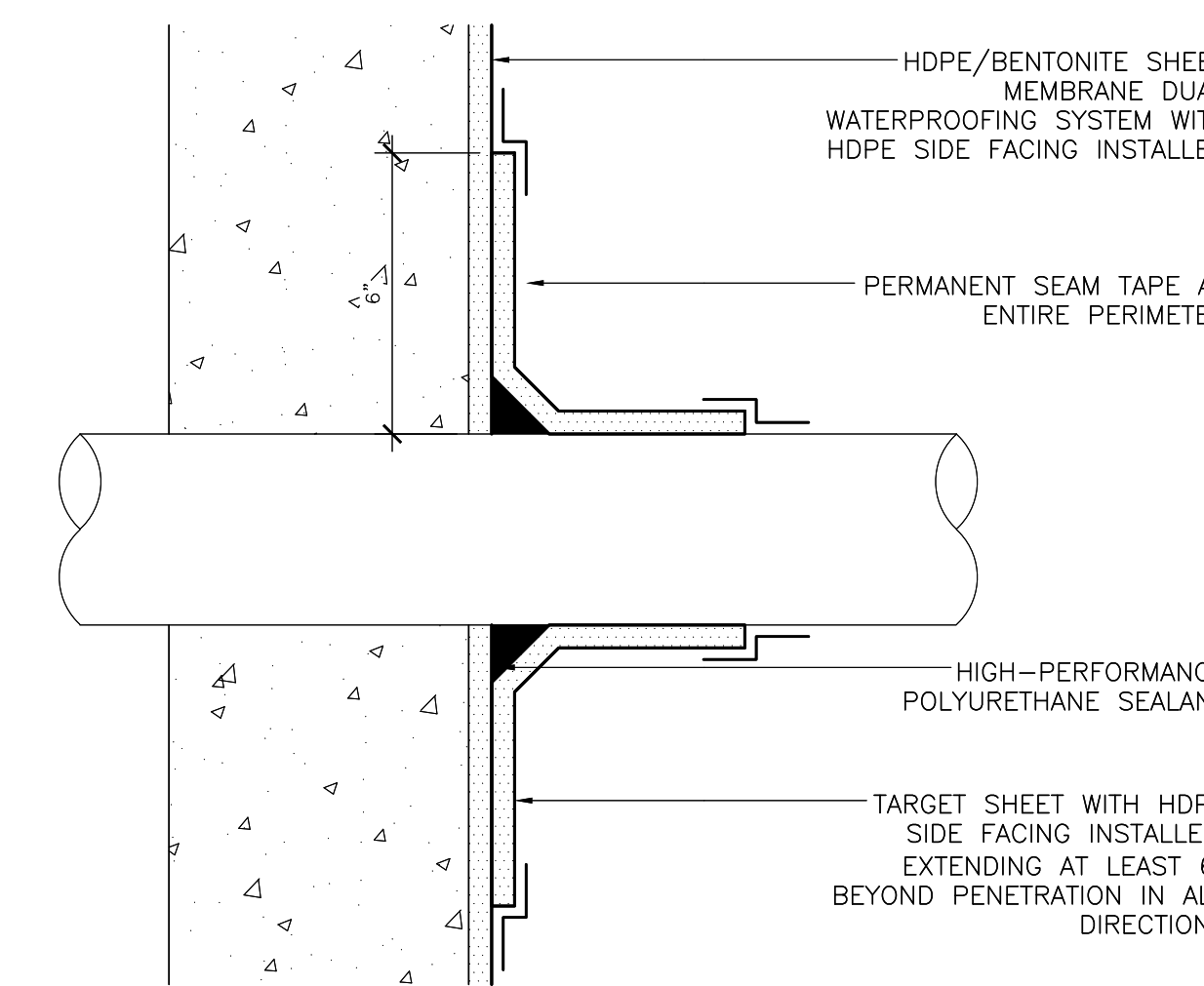
C2 UTILITY TUNNEL TRANSVERSE SECTION

SCALE 1/4" = 1'-0"



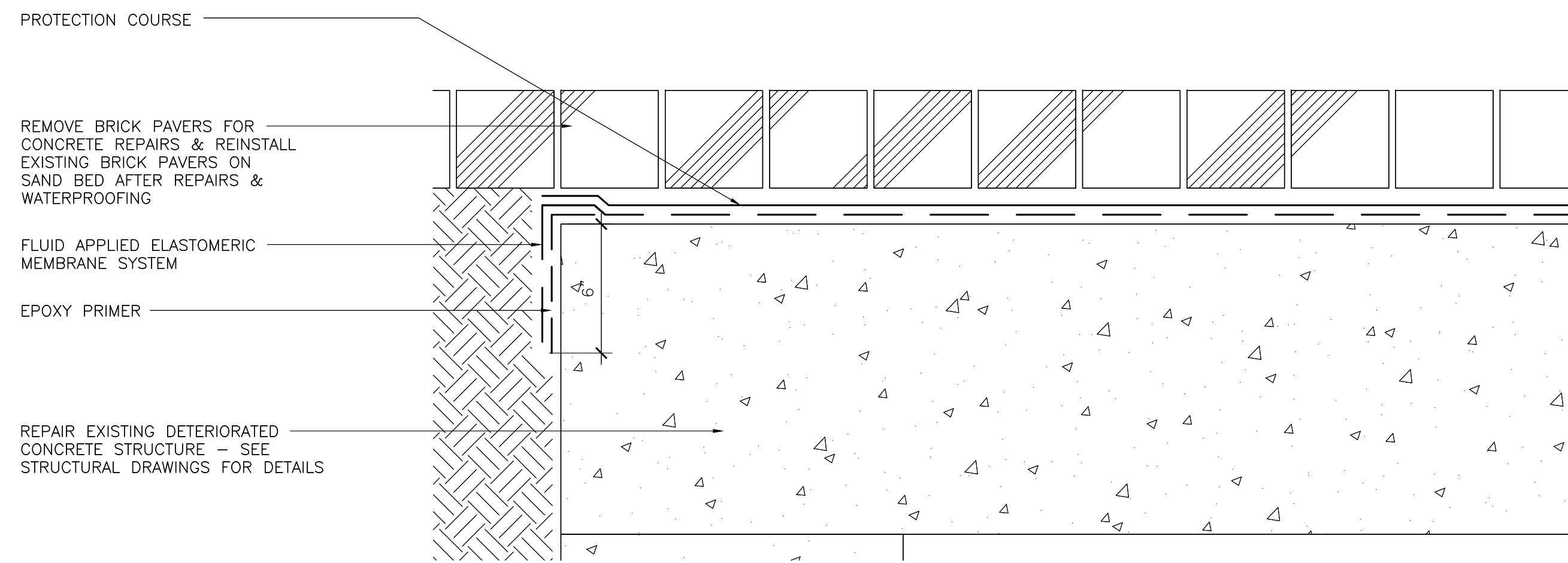
D6 TYPICAL WATERPRROF SYSTEM AT TRANSIT TUNNEL

SCALE 3" = 1'-0"



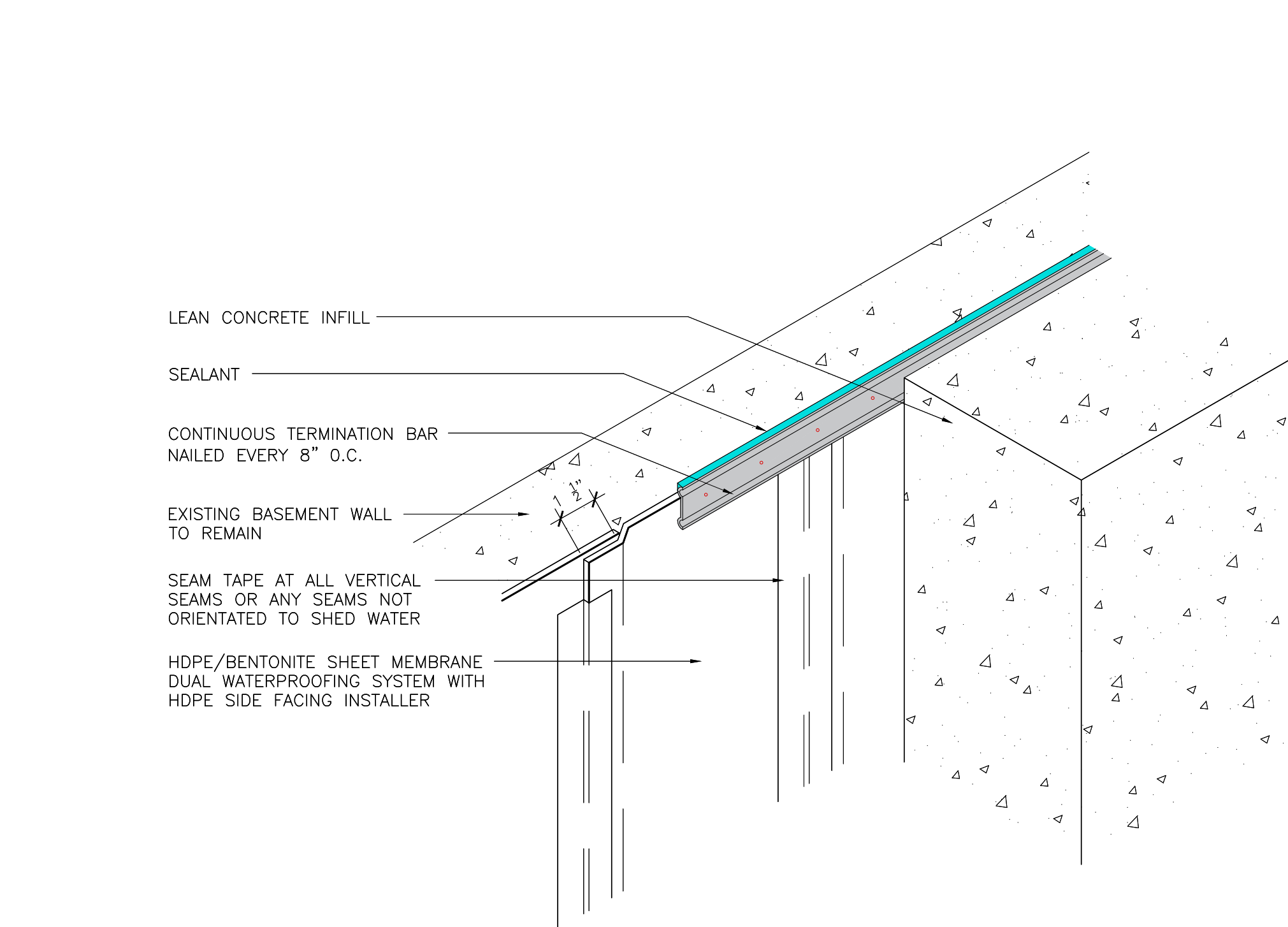
E5 PIPE PENETRATION IN BACKFILLED WALL

SCALE 3" = 1'-0"



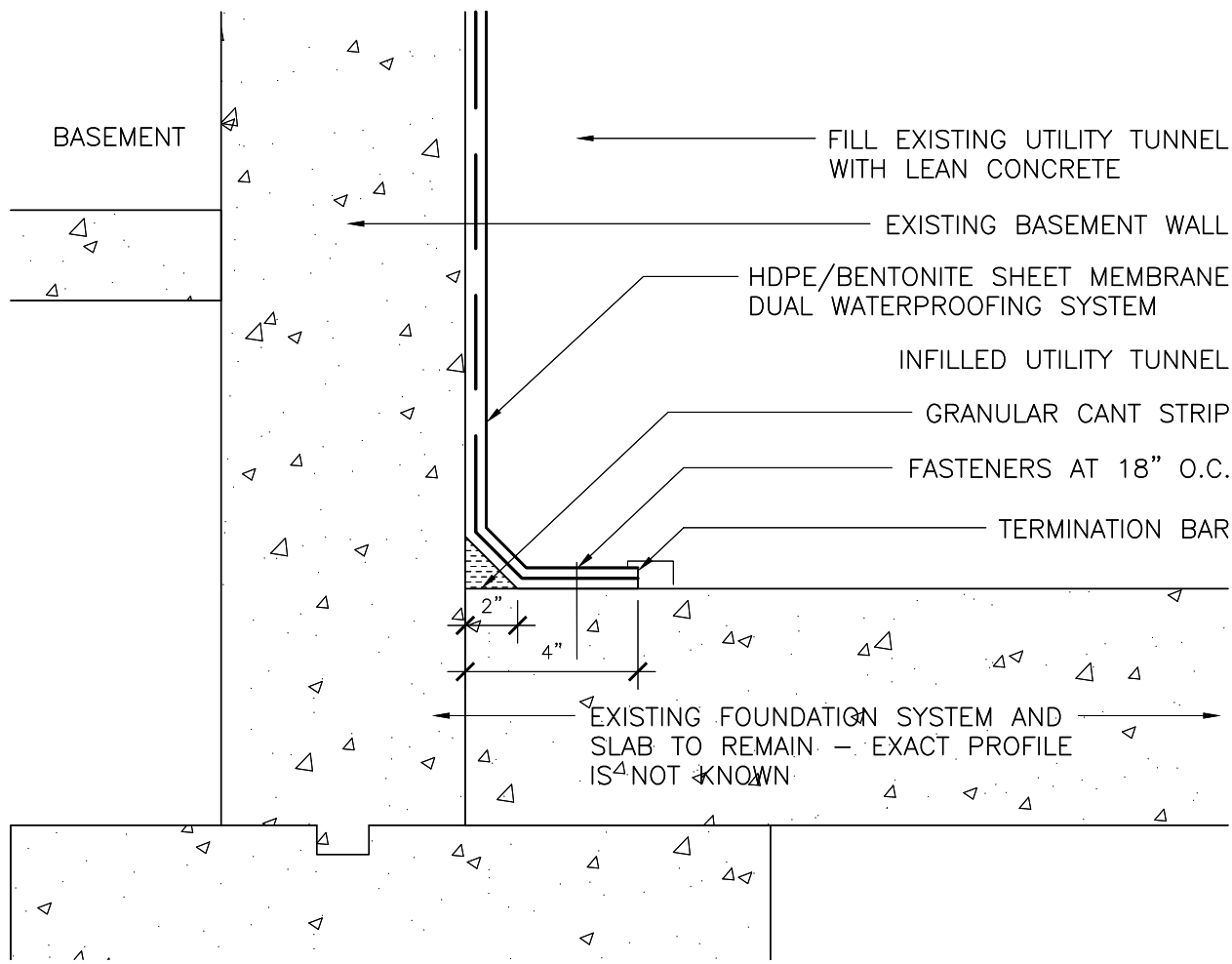
D5 WATERPROOFING CORNER DETAIL

SCALE 3" = 1'-0"



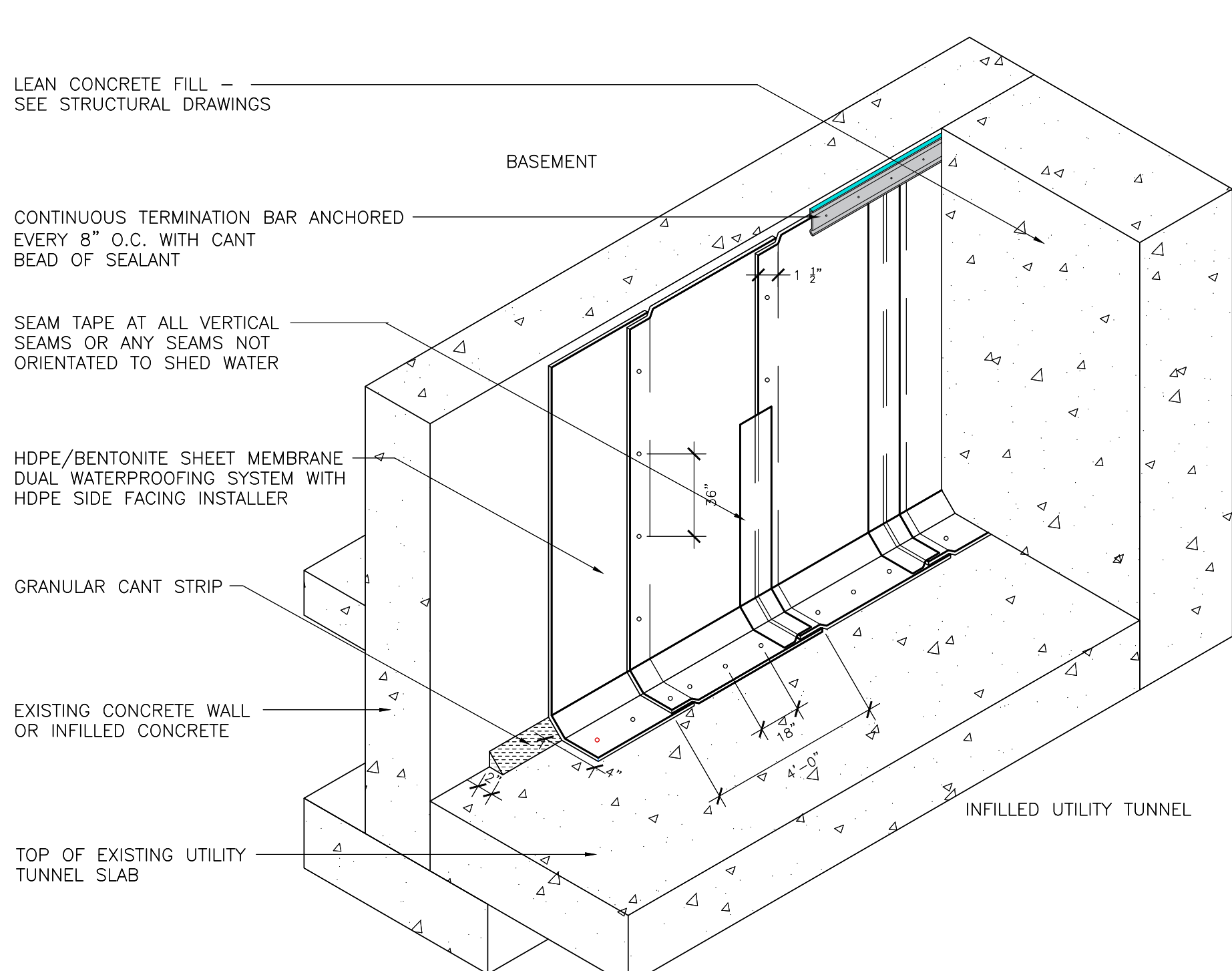
E4 MEMBRANE WATERPROOFING CEILING TERMINATION DETAIL

SCALE 3" = 1'-0"



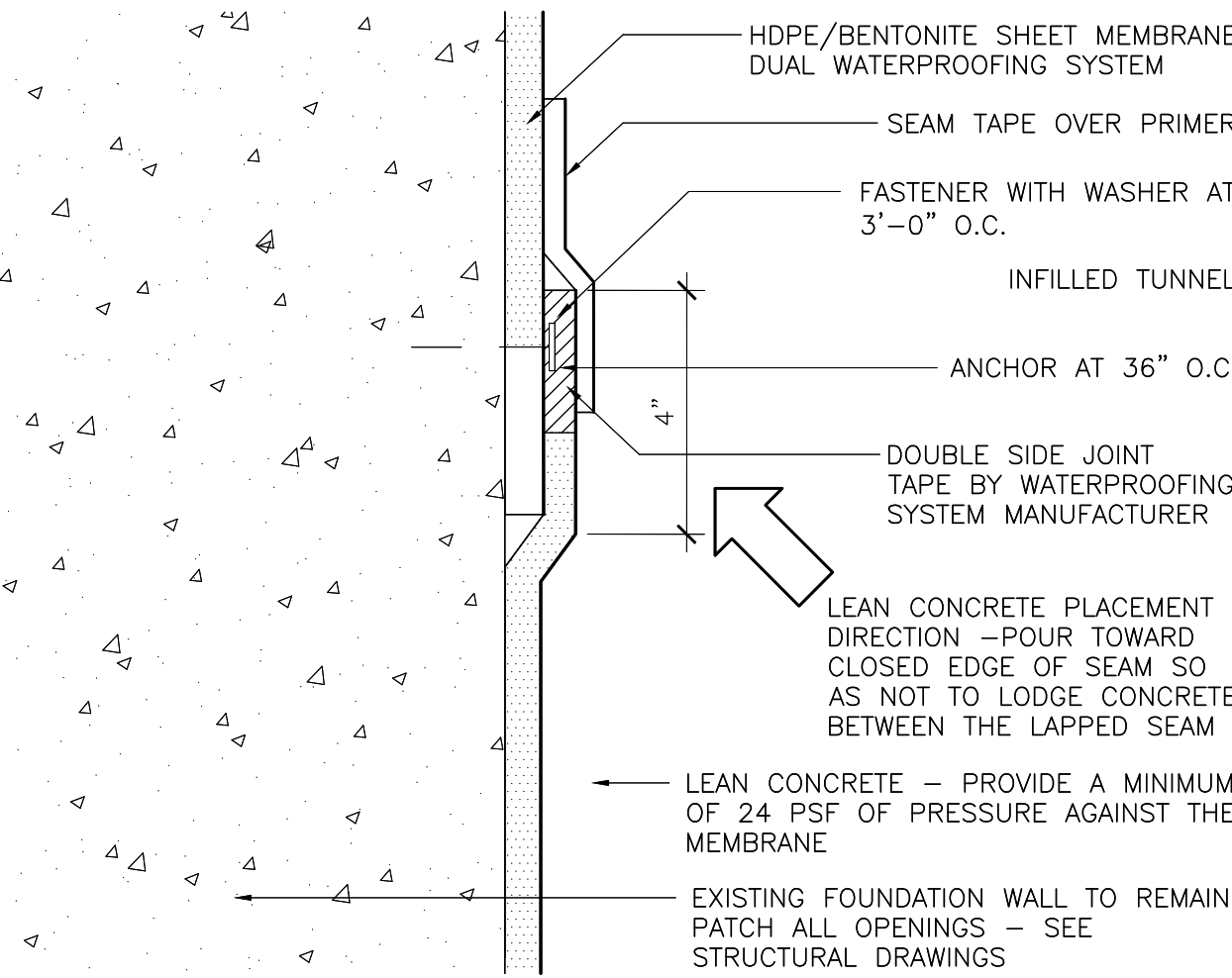
D3 MEMBRANE WATERPROOFING BASE DETAIL

SCALE 3" = 1'-0"



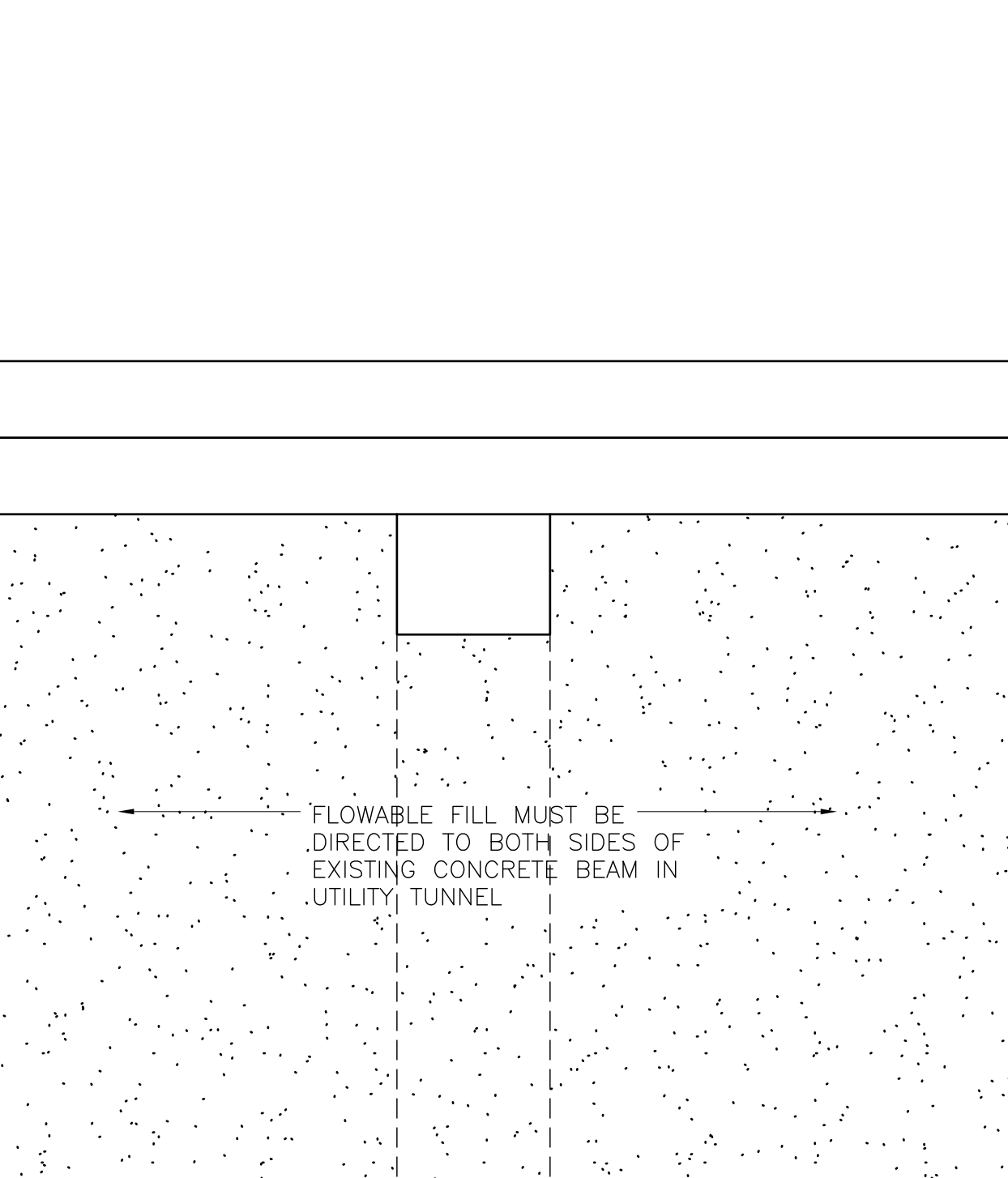
E3 TYPICAL MEMBRANE WATERPROOFING

SCALE 3" = 1'-0"



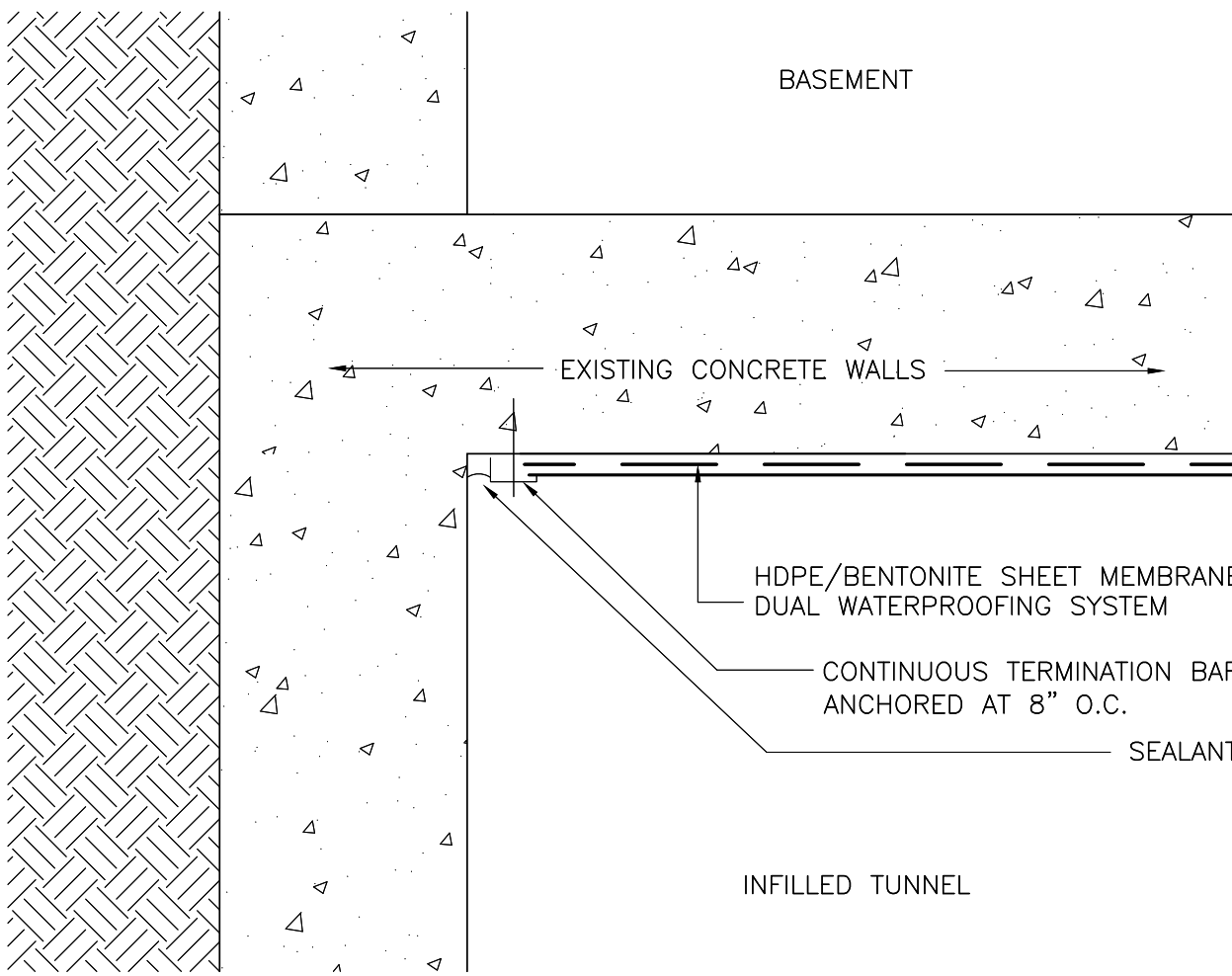
D2 VERTICAL SEAM DETAIL - TYPICAL

SCALE 3" = 1'-0"



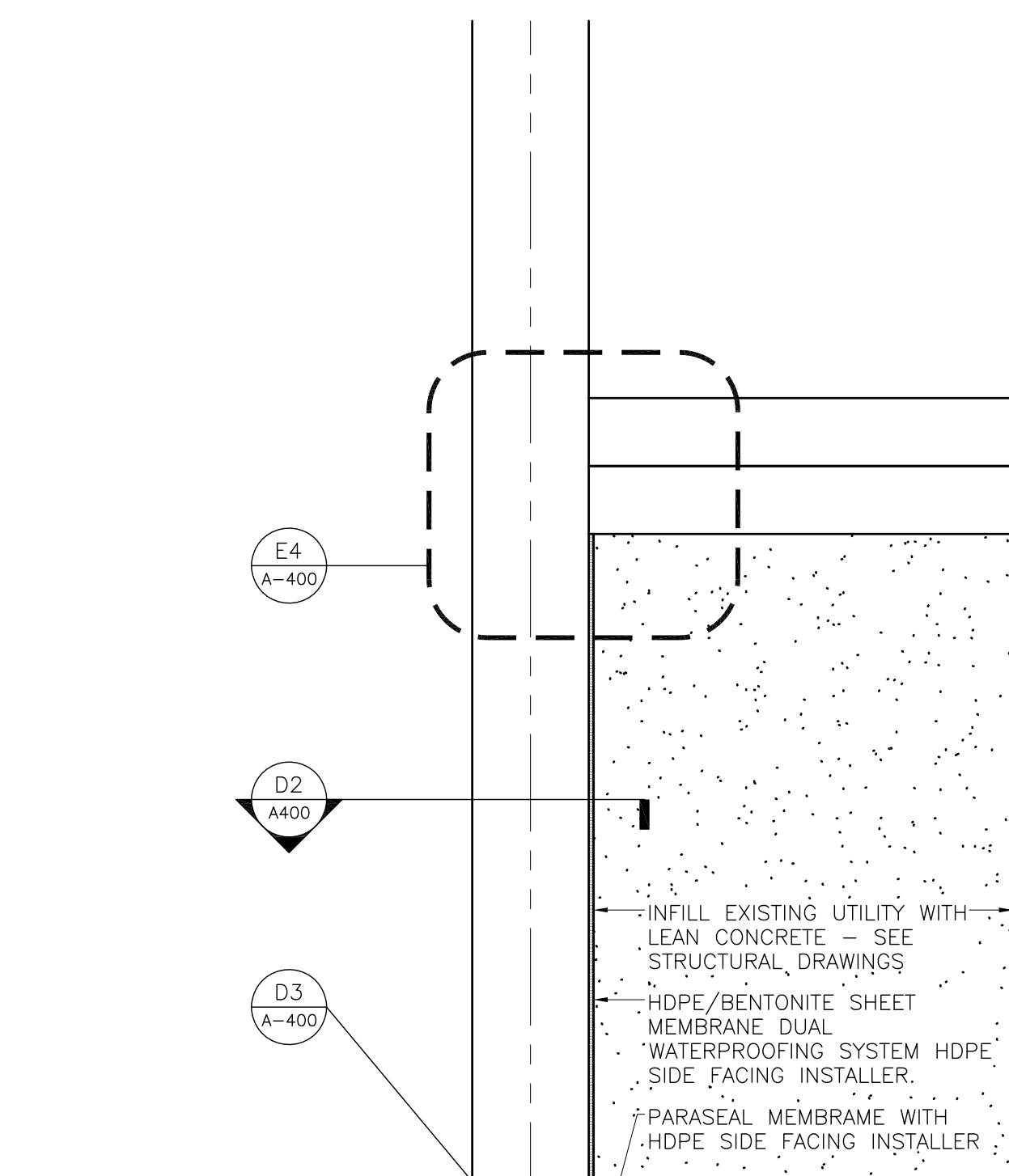
E2 UTILITY TUNNEL BEAM SECTION - TYPICAL

SCALE 3/4" = 1'-0"



D1 MEMBRANE WATERPROOFING CORNER DETAIL

SCALE 3" = 1'-0"



E1 UTILITY TUNNEL WALL SECTION - TYPICAL

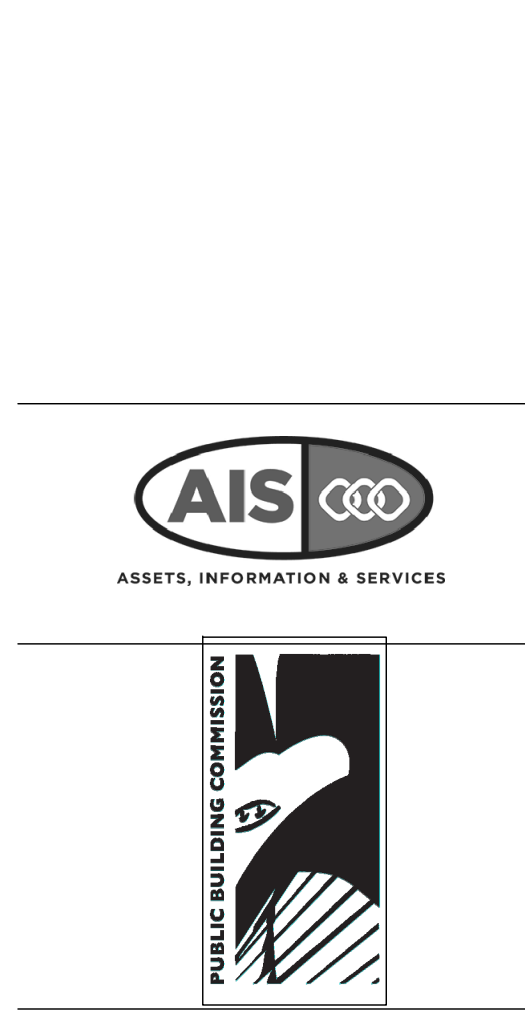
SCALE 3/4" = 1'-0"

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PBC Project Name: 1769, 1819, 1869 Pershing Tunnel Renovation

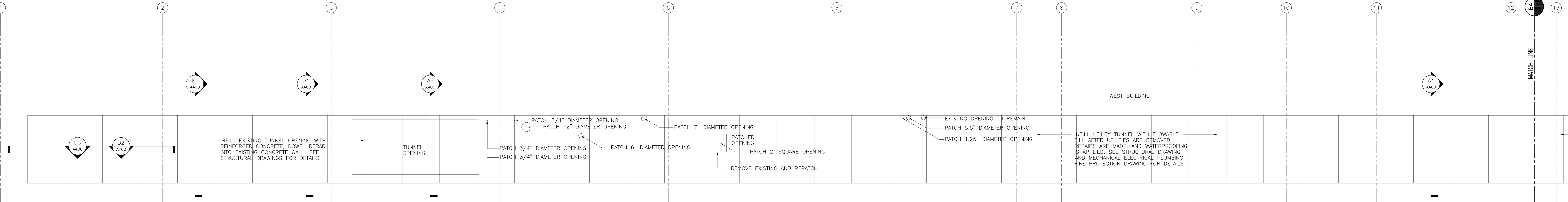
PBC Contract No:

Project No: 004028

Title
UTILITY TUNNEL SECTIONS, WALL SECTIONS, DETAILS

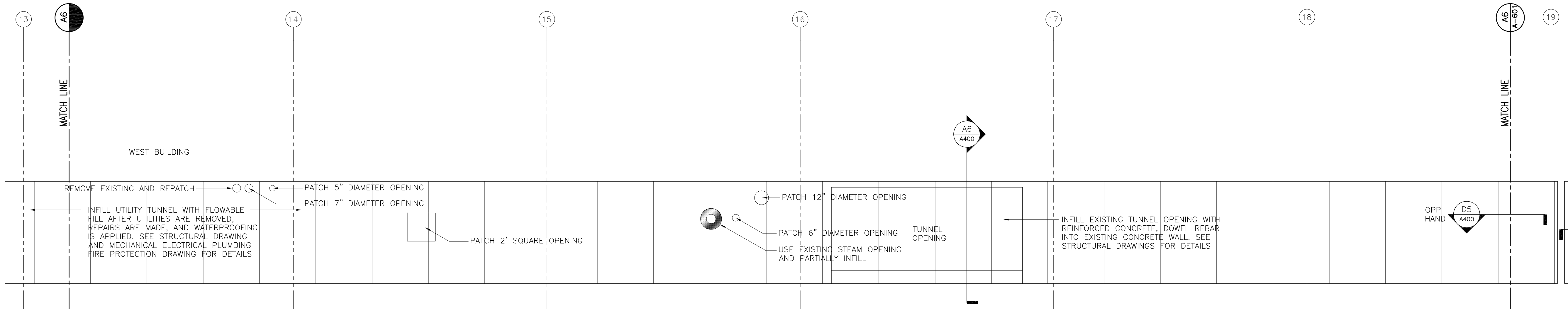
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A-400

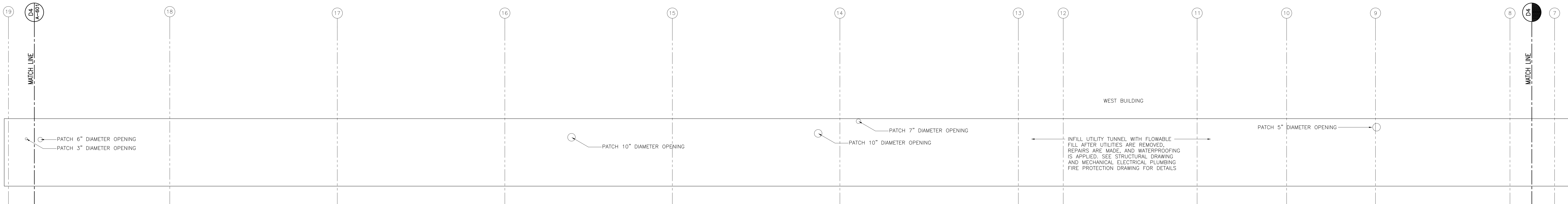


A6 UTILITY TUNNEL NORTH INTERIOR ELEVATION - TYPICAL
SCALE 1/4" = 1'-0"

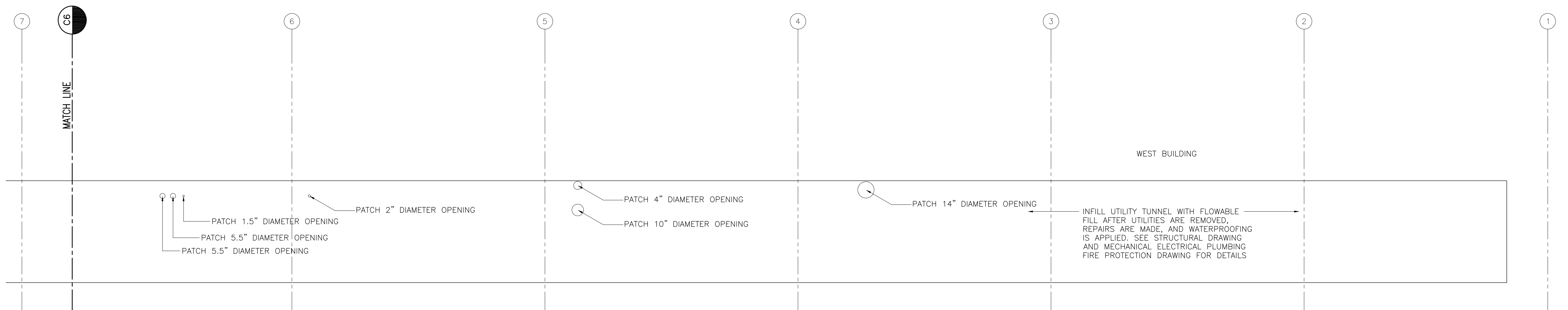
- GENERAL NOTES FOR TUNNEL PATCHING
1. REMOVE ALL MASONRY PATCHES
 2. SEE STRUCTURAL DRAWINGS FOR DETAILS FOR PATCH DETAILS
 3. PATCH 10-12" DIAMETER BEYOND WHAT IS SHOWN ON THESE DRAWINGS
 4. ALL PATCHES ON WALL TO RECEIVE MEMBRANE WATERPROOFING MUST BE FLUSH WITH ADJACENT WALL



B4 UTILITY TUNNEL NORTH INTERIOR ELEVATION
SCALE 1/4" = 1'-0"



C6 UTILITY TUNNEL SOUTH INTERIOR ELEVATION
SCALE 1/4" = 1'-0"



D4 UTILITY TUNNEL SOUTH INTERIOR ELEVATION
SCALE 1/4" = 1'-0"

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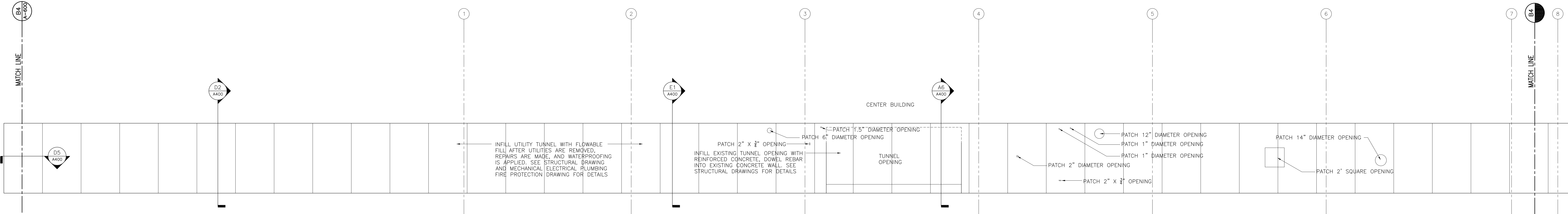
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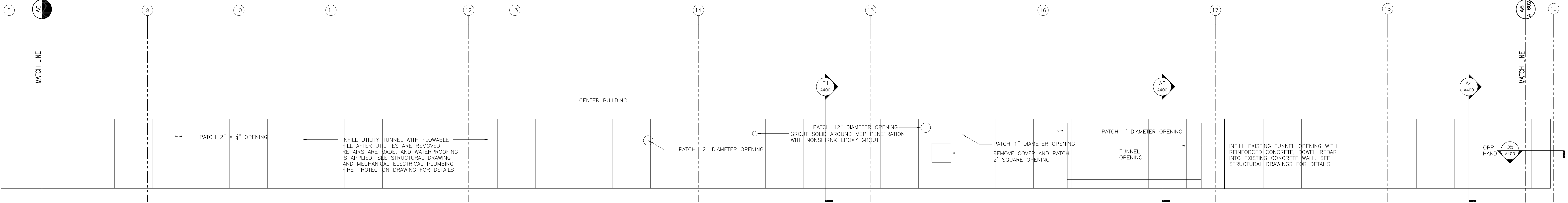
PBC Project Name: 1769, 1819, 1869 Pershing Tunnel Renovation
PBC Contract No:
Project No: #04028
Title
**UTILITY TUNNEL
INTERIOR
ELEVATIONS - WEST
BUILDING**

Sheet
A-600

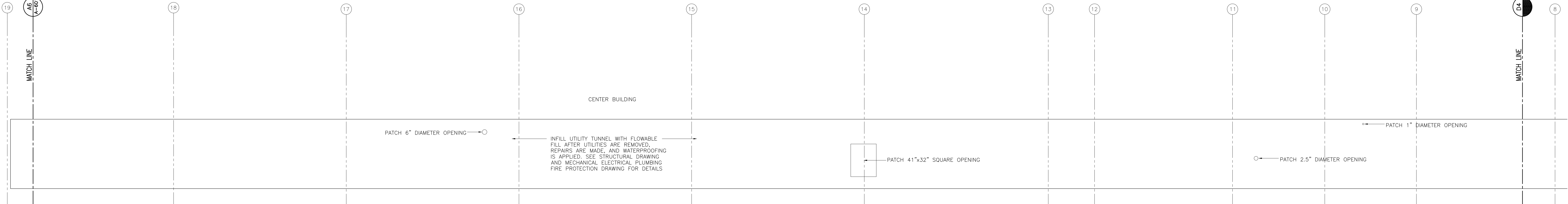
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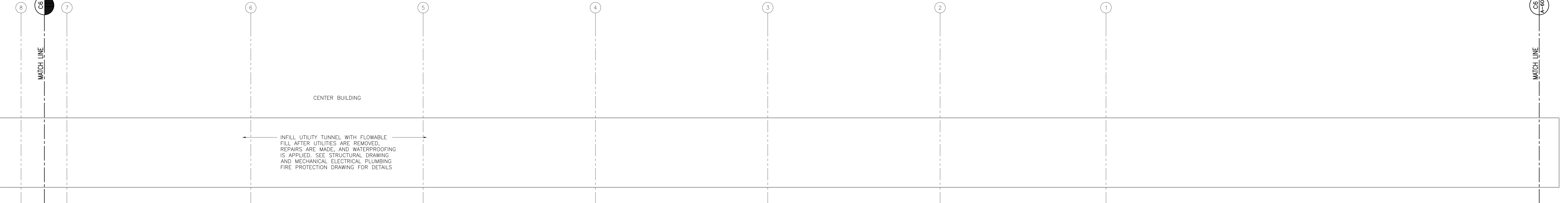
A6 UTILITY TUNNEL NORTH INTERIOR ELEVATION
SCALE 1/4" = 1'-0"



B4 UTILITY TUNNEL NORTH INTERIOR ELEVATION
SCALE 1/4" = 1'-0"



C6 UTILITY TUNNEL SOUTH INTERIOR ELEVATION
SCALE 1/4" = 1'-0"



D4 UTILITY TUNNEL SOUTH INTERIOR ELEVATION
SCALE 1/4" = 1'-0"

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PUBLIC BUILDING COMMISSION OF CHICAGO
CITY OF CHICAGO, MAYOR LORI LIGHTFOOT

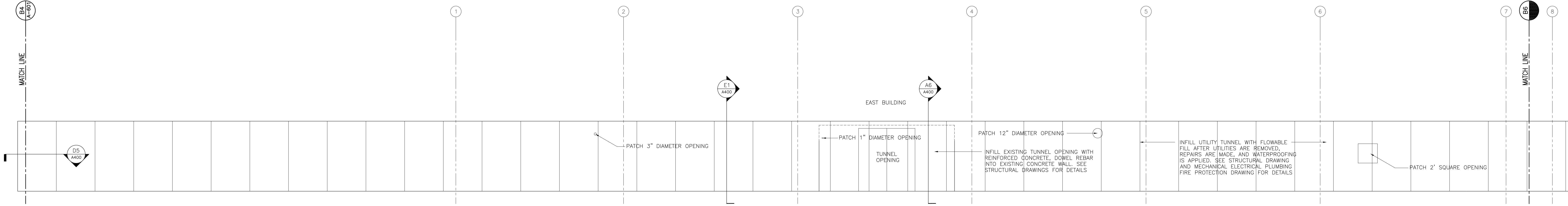
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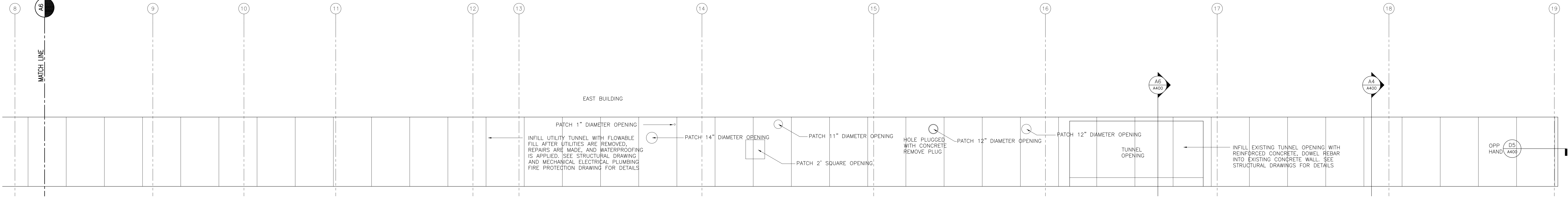
PBC Project Name: 1769, 1819, 1869 Pershing Tunnel Renovation
PBC Contract No:
Project No: #04028
Title
UTILITY TUNNEL
INTERIOR
ELEVATIONS -
CENTER BUILDING

Sheet
A-601

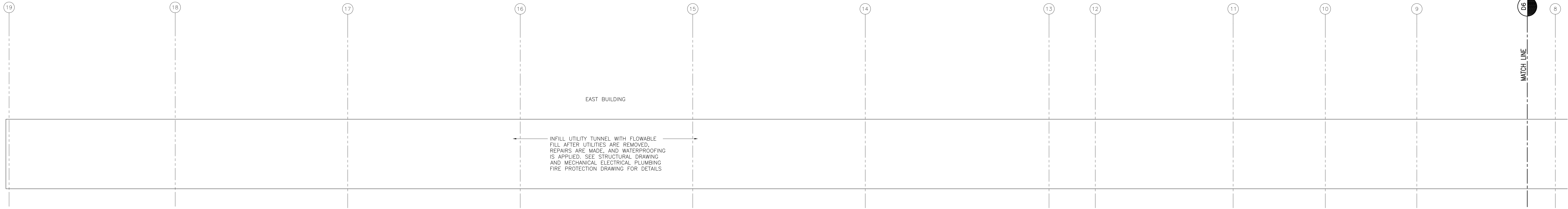
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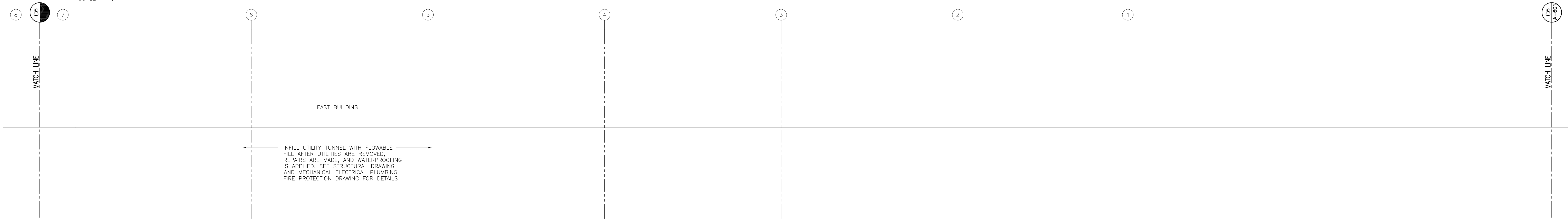
A6 UTILITY TUNNEL NORTH INTERIOR ELEVATION
SCALE 1/4" = 1'-0"



B6 UTILITY TUNNEL NORTH INTERIOR ELEVATION
SCALE 1/4" = 1'-0"



C6 UTILITY TUNNEL SOUTH INTERIOR ELEVATION
SCALE 1/4" = 1'-0"



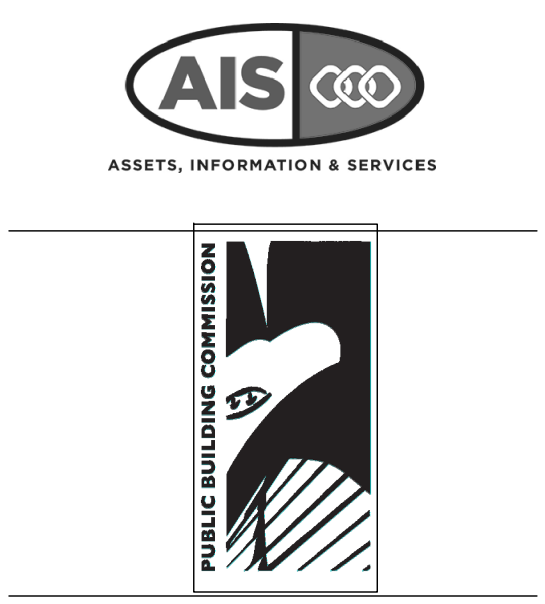
D6 UTILITY TUNNEL SOUTH INTERIOR ELEVATION
SCALE 1/4" = 1'-0"

Environmental Notes

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Professional Stamp



**1769, 1819, 1869 W. PERSHING
TUNNEL RENOVATION**
1819 W PERSHING ROAD
CHICAGO, ILLINOIS 60609

PUBLIC BUILDING COMMISSION OF CHICAGO
CITY OF CHICAGO, MAYOR LORI LIGHTFOOT

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Chicago, IL 60654
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Issuance		
Mark	Description	Date
01	ISSUE FOR PREBID	10/14/21
02	ISSUE FOR 100% CD Rev	11/09/21

PBC Project Name: 1769, 1819, 1869 Pershing Tunnel Renovation
PBC Contract No:
Project No: #04028
Title
**UTILITY TUNNEL
INTERIOR
ELEVATIONS - EAST
BUILDING**

Sheet
A-602

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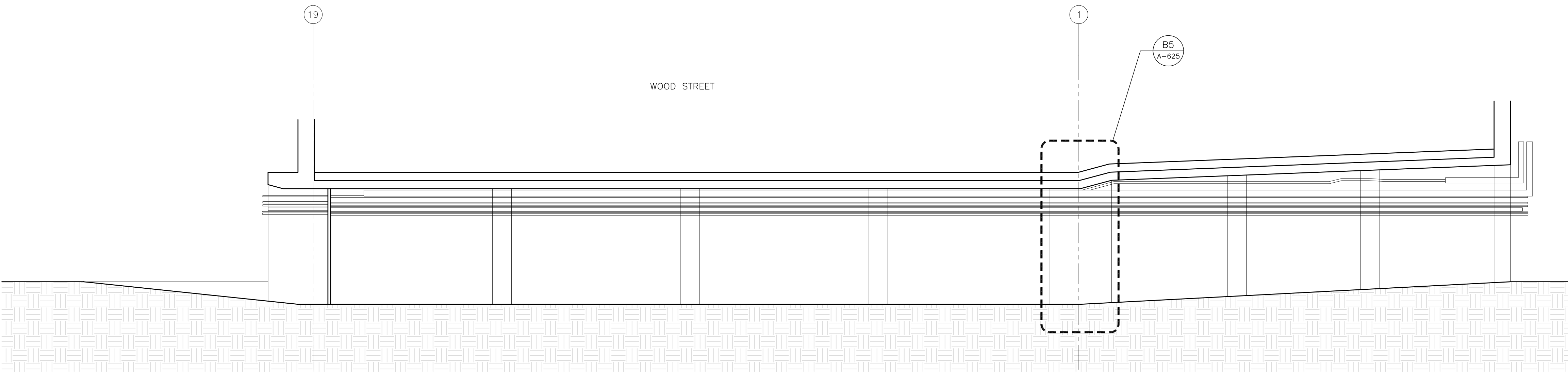
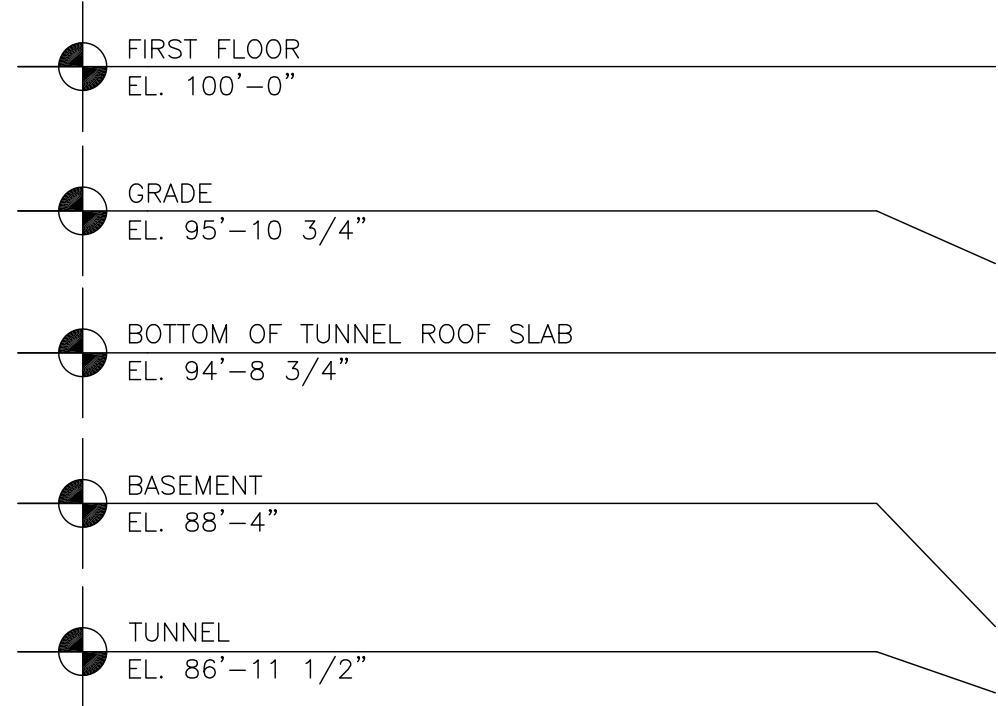
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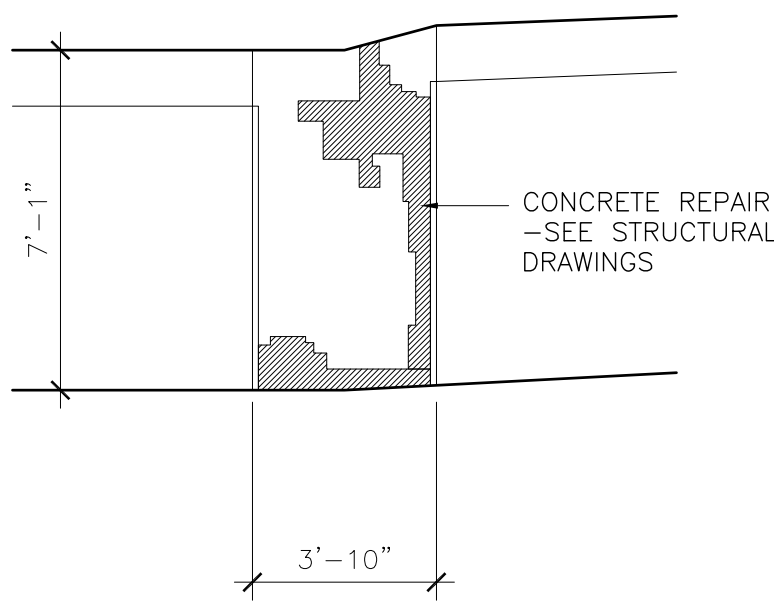
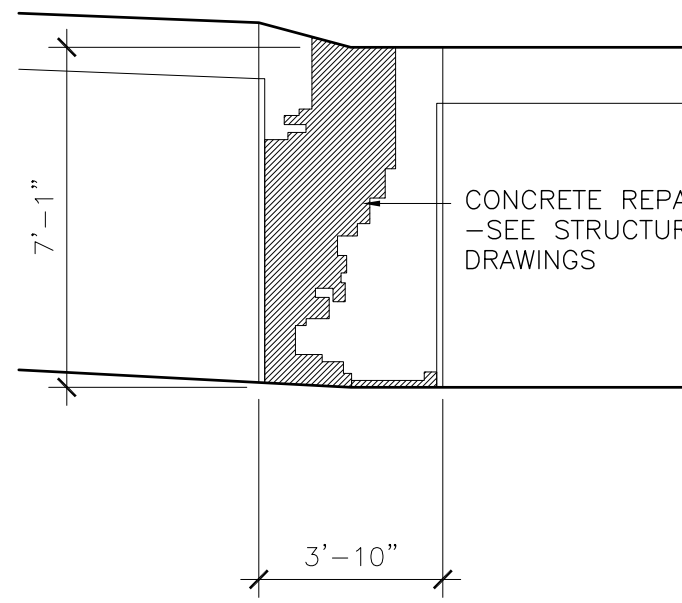
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KEY PLAN



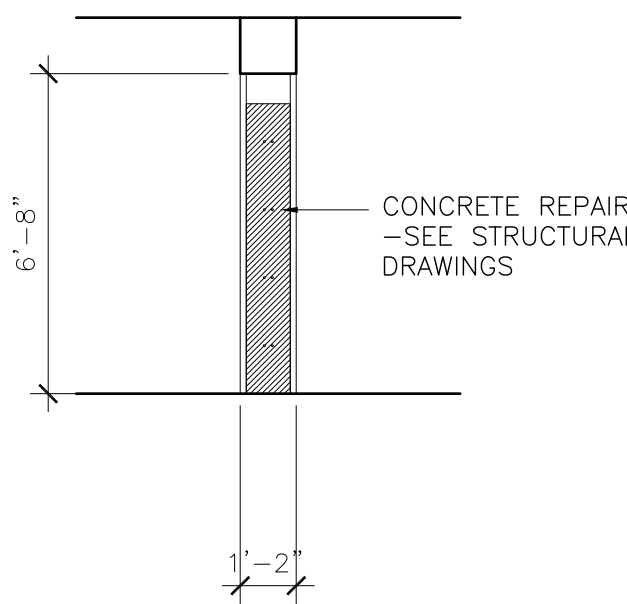
B3 TRANSIT TUNNEL LONGITUDINAL SECTION

SCALE 1/4" = 1'-0"



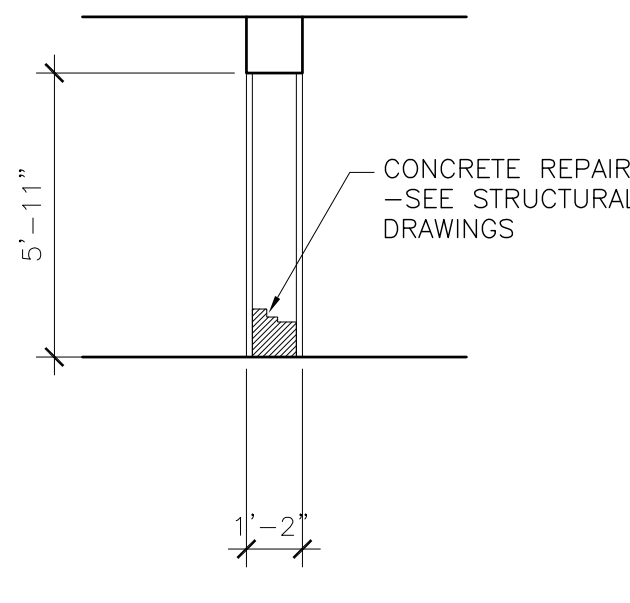
B5 DAMAGED NORTH COLUMN ELEVATION

SCALE 1/4" = 1'-0"



B4 DAMAGED SOUTH COLUMN ELEVATION

SCALE 1/4" = 1'-0"



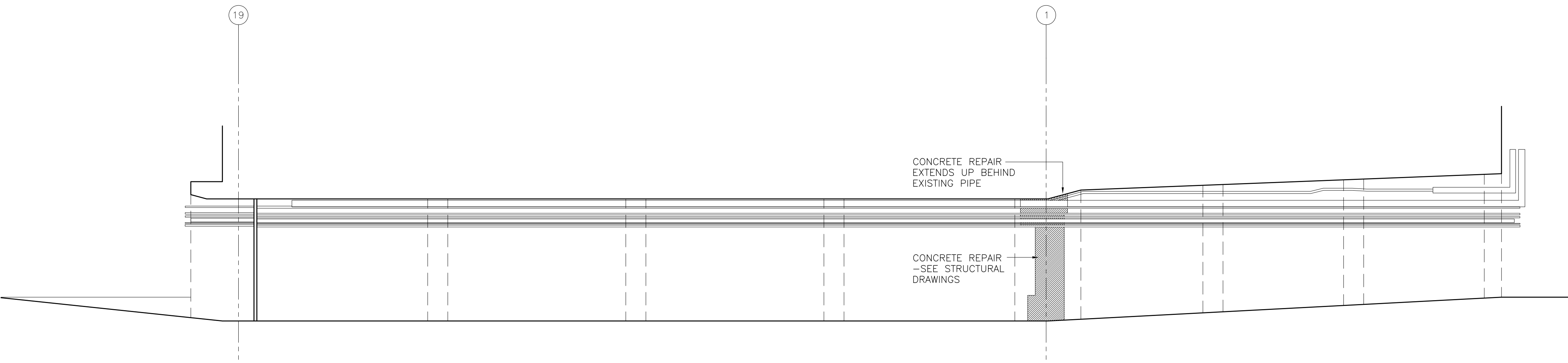
WEST ELEVATION

C5 DAMAGED EAST COLUMN ELEVATION

SCALE 1/4" = 1'-0"

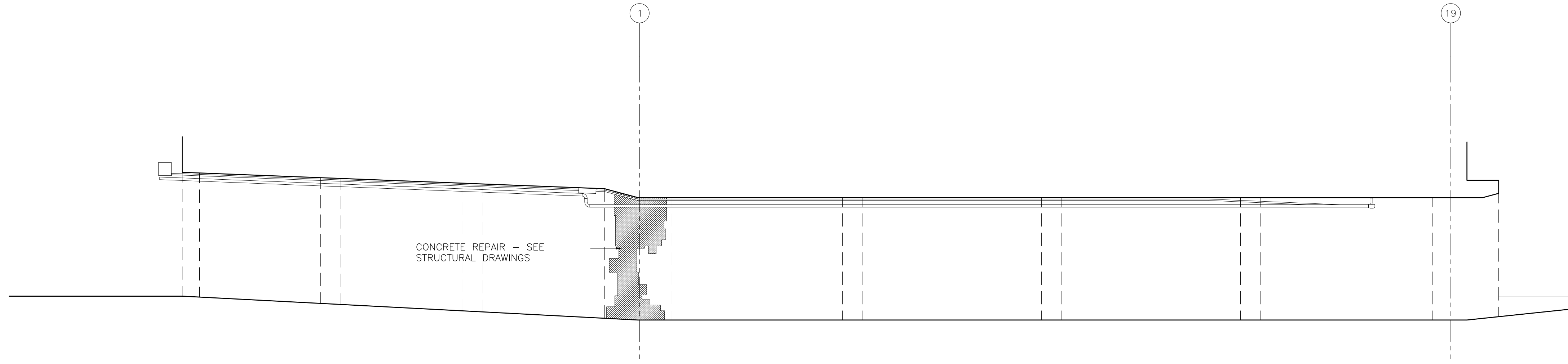
C4 DAMAGED WEST COLUMN ELEVATION

SCALE 1/4" = 1'-0"



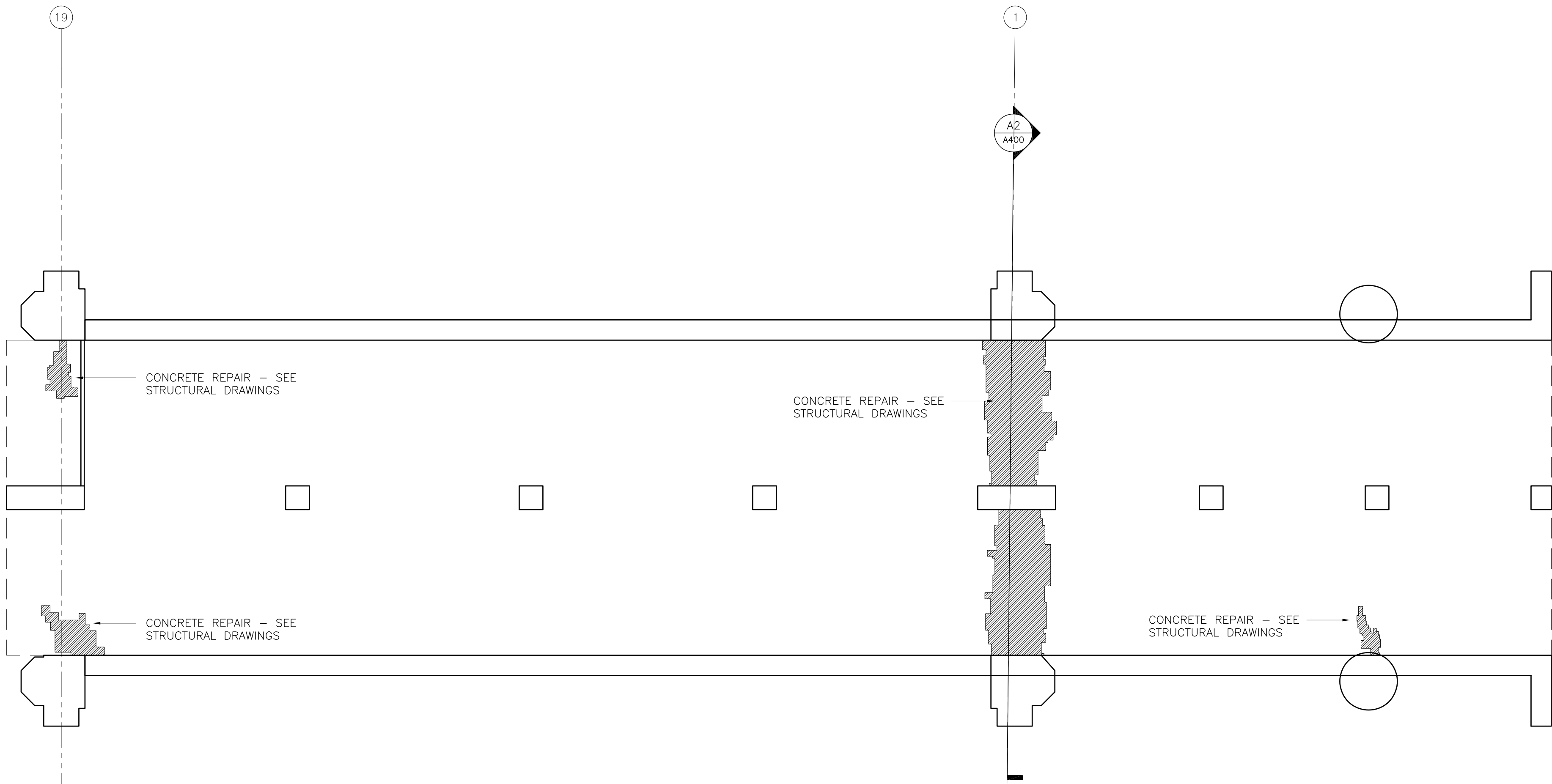
B3 TRANSIT TUNNEL NORTH INTERIOR ELEVATION

SCALE 1/4" = 1'-0"



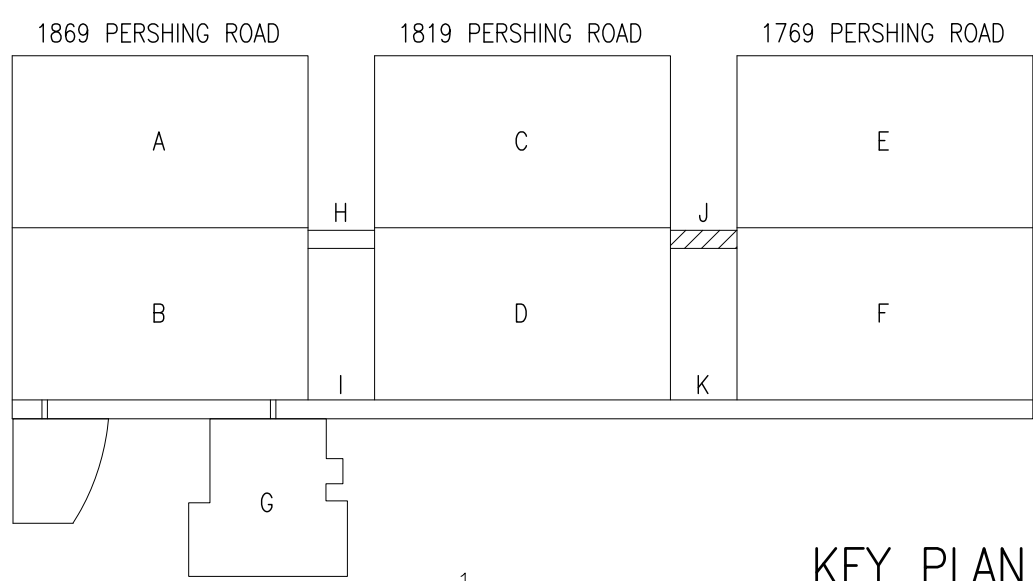
C3 TRANSIT TUNNEL SOUTH INTERIOR ELEVATION

SCALE 1/4" = 1'-0"



E3 TRANSIT TUNNEL REFLECTED CEILING PLAN

SCALE 1/4" = 1'-0"



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PBC Project Name: 1769, 1819, 1869 Pershing Tunnel Renovation

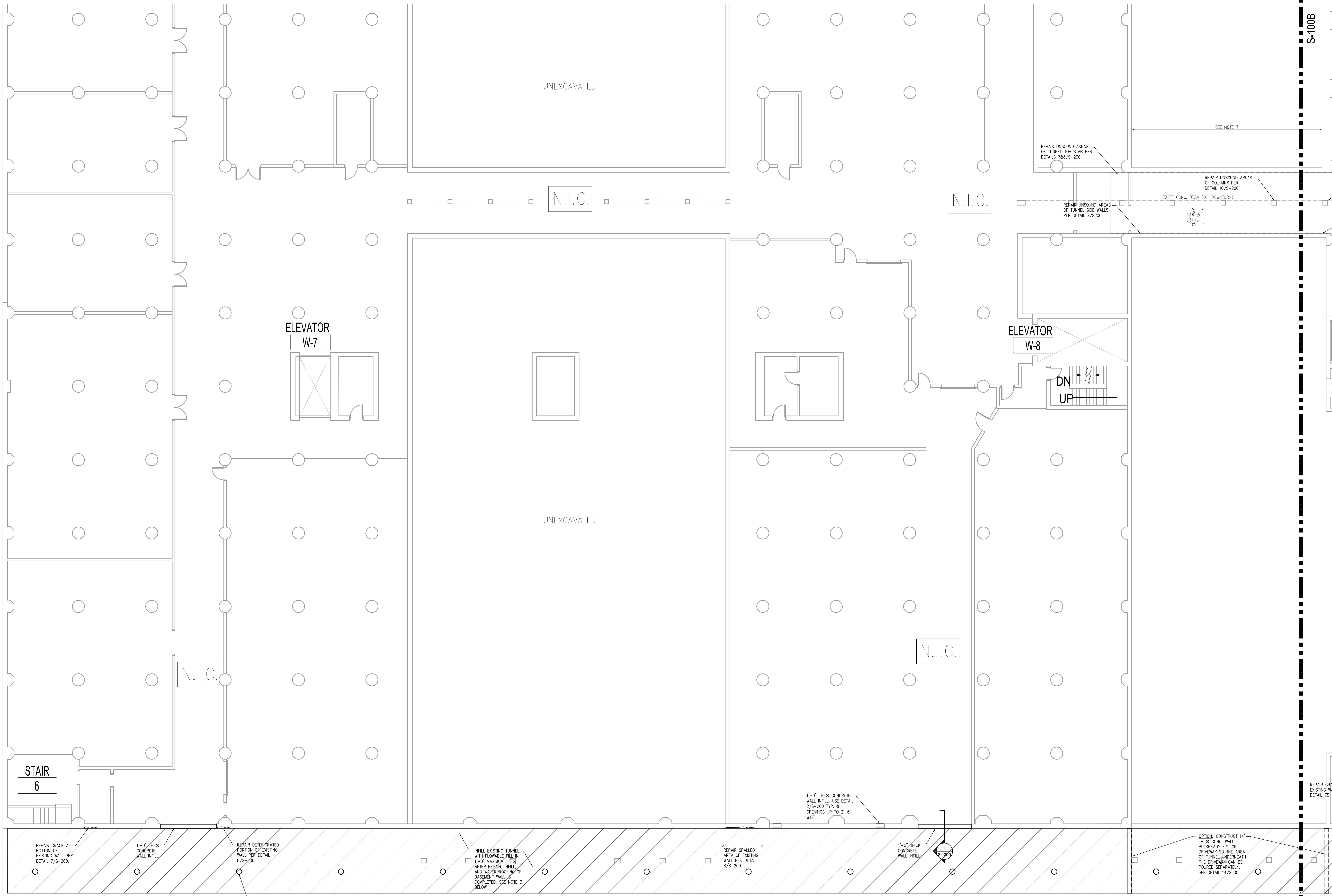
PBC Contract No:

Project No: #04028

Title
**TRANSIT TUNNEL
REPAIRS - PLANS,
SECTION, INTERIOR
ELEVATIONS**

Sheet

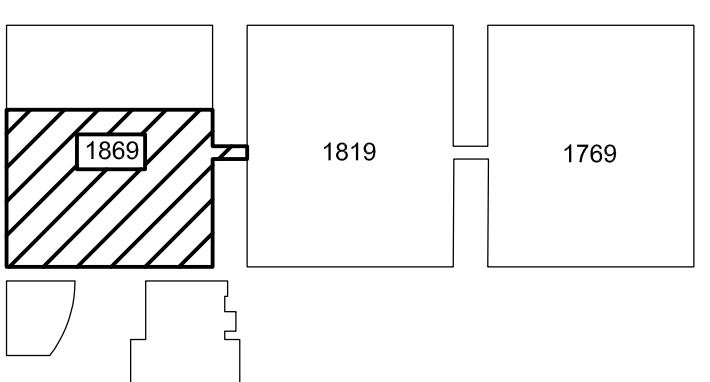
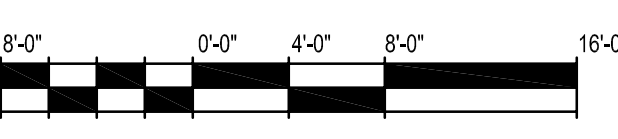
A-625



FRAMING PLAN NOTES:

1. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS BEFORE COMMENCING CONSTRUCTION. FOR ADDITIONAL INFORMATION SEE ARCHITECTURAL DRAWINGS.
2. "SI" INDICATES SLAB-ON-GRADE INFILL, VARYING THICKNESS (4" MIN.) NORMAL WEIGHT CONC. (7500 PSI) REINF. W/ ONE LAYER OF WWP6W/M2 (WV2) LOCATED IN UPPER 1/3 OF SLAB DEPTH. TYPICAL UNLESS NOTED OTHERWISE. SLAB SHALL BE CAST OVER 6" CA-7 COMPACTED GRANULAR FILL.
3. INFILL EXISTING TUNNEL WITH FLOWABLE FILL IN 1'-0" MAXIMUM LIFTS. AFTER REPAIR, INFILL, AND WATERPROOFING OF BASEMENT WALL IS COMPLETED, MINIMUM COMPRESSIVE STRENGTH OF FILL SHALL BE 50 PSI. SUBSEQUENT FLOORS SHALL BE DONE ONLY AFTER THE PREVIOUS LAYER HAS SET AND CAN SUPPORT THE WEIGHT OF THE LAYER ABOVE.
4. CORE 16" ACCESS PORTS THROUGH THE EXISTING TOP SLAB AT A MAXIMUM OF 25'-0" O.C., OR AS REQUIRED TO FILL TUNNEL SO THERE ARE NO GAPS BETWEEN THE FLOWABLE FILL AND THE EXISTING SLAB.
5. ALL EXISTING OPENINGS IN THE TUNNEL WALL SHALL BE INFILLED PER DETAILS 1, 2, AND 3 ON S-200. DETAIL TO BE DETERMINED BY THE SIZE OF THE OPENING. VERIFY ALL LOCATIONS IN THE FIELD.
6. IN THE HATCHED REGION ADJACENT TO THE 1769 BUILDING (SHEETS 1008 AND 1009), EXISTING PAVEMENT AND OTHER FINISHES SHALL BE REMOVED TO EXPOSE THE TOP OF THE TUNNEL. STRUCTURAL TOP SLAB FOR THE FULL WIDTH OF THE TUNNEL FOR THE DIMENSION INDICATED ON THE PLAN. AFTER REMOVAL WORK IS COMPLETED, THE AREA WILL BE INSPECTED BY THE STRUCTURAL ENGINEER TO DETERMINE THE OVERALL CONDITION OF THE SLAB. IF THE SLAB IS IN POOR CONDITION, THE REMAINING PAVEMENT OVER THE TUNNEL SHALL BE REMOVED, AS INDICATED IN NOTE 7.
7. ADD ALTERNATE: DEPENDENT ON THE RESULTS OF THE INSPECTION OF THE TUNNEL SLAB IN NOTE 6, EXISTING PAVEMENT AND OTHER FINISHES SHALL BE REMOVED TO EXPOSE THE TOP OF THE TUNNEL. STRUCTURAL TOP SLAB FOR THE FULL WIDTH OF THE TUNNEL FOR THE FULL LENGTH OF BOTH TUNNELS. C.C. SHALL COORDINATE THE REMOVAL IN PHASES TO MINIMIZE DISRUPTION OF THE OPERATION OF THE BUILDINGS.

1 STRUCTURAL BASEMENT PLAN
SCALE: 1/8" = 1'-0"



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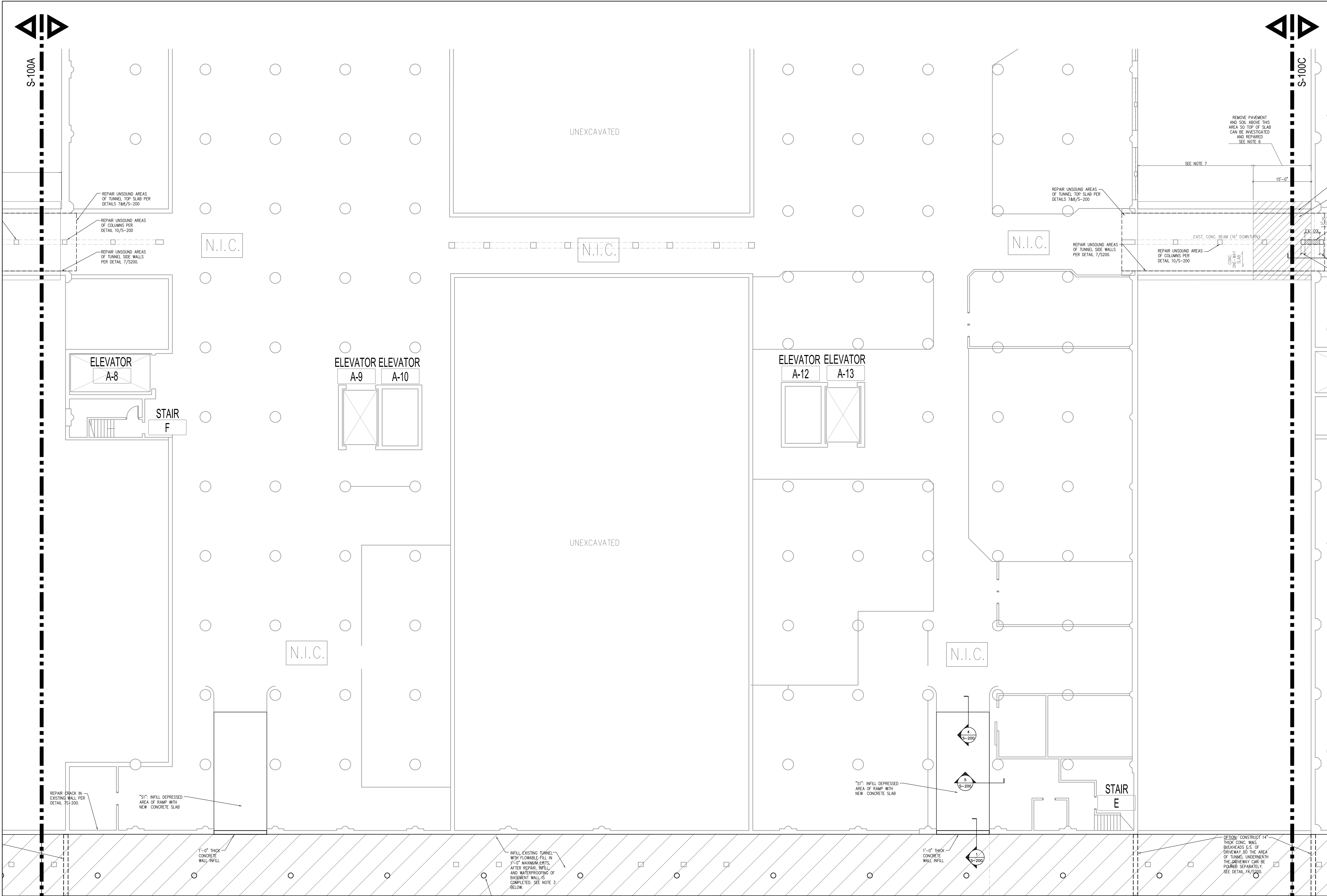
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Mark	Description	Date
01	ISSUE FOR BID	9/21/2021
02	ISSUE FOR 100% CD Rev	11/09/21

PBC Project Name: 1769, 1819, 1869 Pershing Tunnel Renovation
PBC Contract No.: #04028
Project No.: #04028
Title:

1869 BASEMENT-STRUCTURAL

Sheet
S-100A

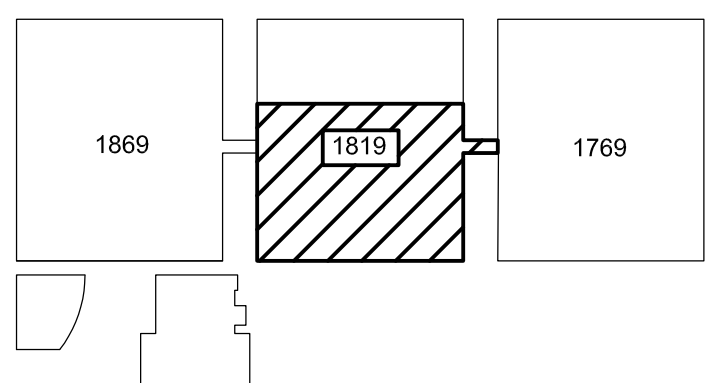
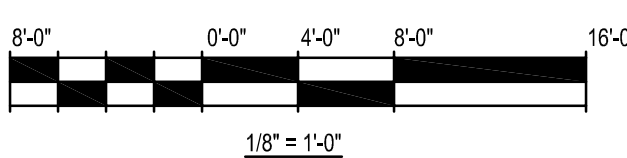
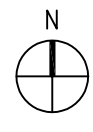


FRAMING PLAN NOTES:

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2. "21" INDICATES SLAB-ON-GRADE INFILL VARYING THICKNESS (4" MIN.) NORMAL WEIGHT CONC. (FC=4000 psi) REIN. W/ ONE LAYER OF W#6@#W2.1XW2.1 LOCATED IN UPPER 1/3 OF SLAB DEPTH, TYPICAL UNLESS NOTED OTHERWISE. SLAB SHALL BE CAST OVER 6" CA-7 COMPACTED GRANULAR FILL.
3. INFILL EXISTING TUNNEL WITH FLOWABLE FILL IN 1'-0" MAXIMUM LIFTS, AFTER REPAIR, INFILL, AND WATERPROOFING OF BASEMENT WALL IS COMPLETED. MINIMUM COMPRESSIVE STRENGTH OF FILL SHALL BE 50 PSI. SUBSEQUENT POURS SHALL BE DONE ONLY AFTER THE PREVIOUS LAYER HAS SET AND CAN SUPPORT THE WEIGHT OF THE LAYER ABOVE.
4. CORE 16" ACCESS PORTS THROUGH THE EXISTING TOP SLAB AT A MAXIMUM OF 25'-0" O.C., OR AS REQUIRED TO FILL TUNNEL SO THERE ARE NO GAPS BETWEEN THE FLOWABLE FILL AND THE EXISTING SLAB.
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6. IN THE HATCHED REGION ADJACENT TO THE 1769 BUILDING (SHEETS 100B AND 100C), EXISTING PAVEMENT AND OTHER FINISHES SHALL BE REMOVED TO EXPOSE THE TOP OF THE TUNNEL STRUCTURAL TOP SLAB FOR THE FULL WIDTH OF THE TUNNEL FOR THE DIMENSION INDICATED ON THE PLAN. AFTER DEMOLITION WORK IS COMPLETED, THE AREA WILL BE INSPECTED BY THE STRUCTURAL ENGINEER TO DETERMINE THE OVERALL CONDITION OF THE SLAB. IF THE SLAB IS IN POOR CONDITION, THE REMAINING PAVEMENT OVER THE TUNNEL SHALL BE REMOVED, AS INDICATED IN NOTE 7.
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1 STRUCTURAL BASEMENT PLAN

S-100B SCALE: 1/8" = 1'-0"



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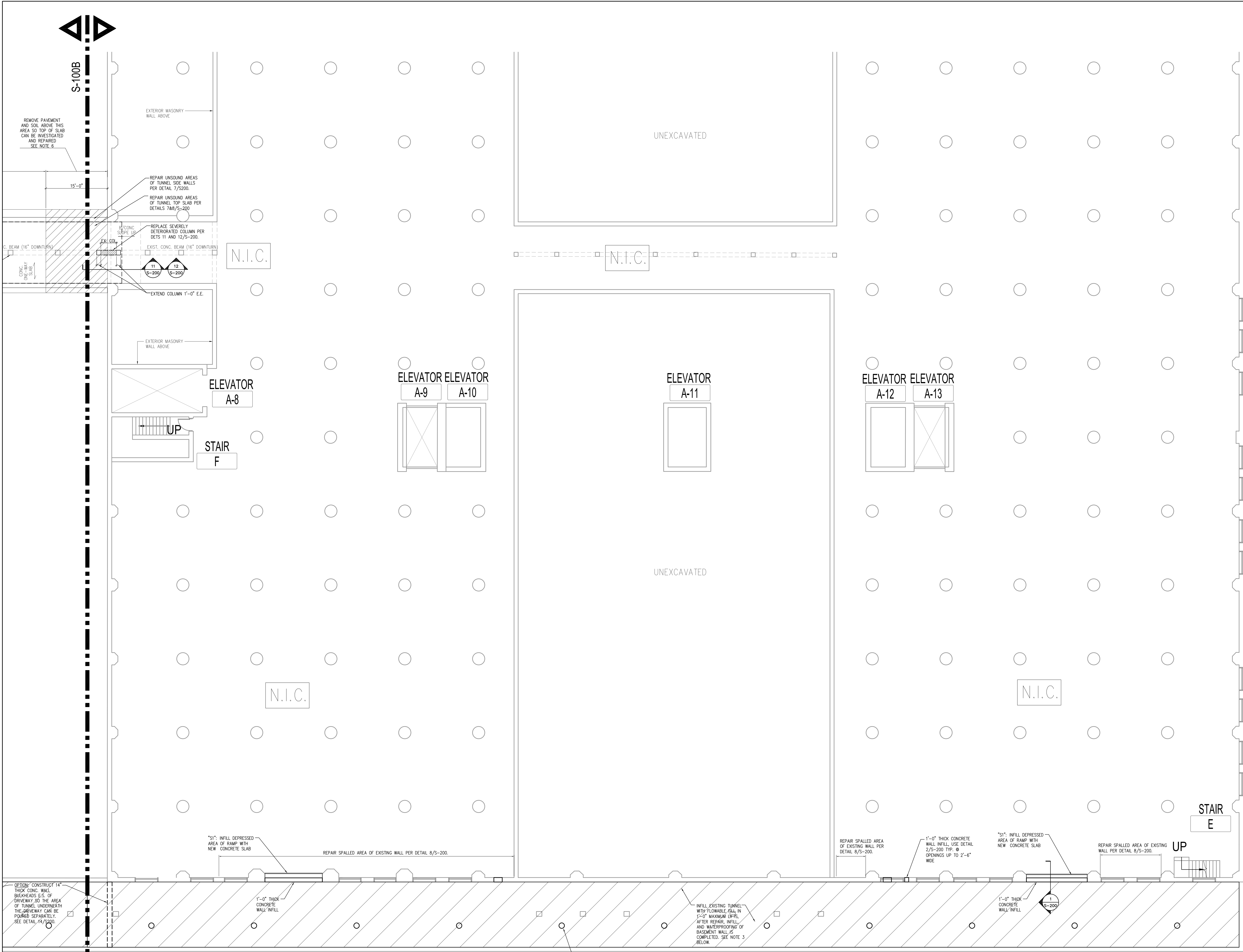
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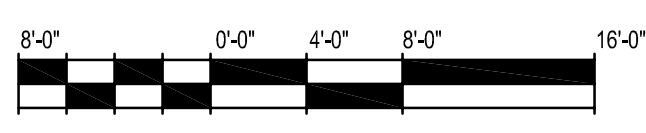
PBC Project Name: 1769, 1819, 1869
Pershing Tunnel Renovation
PBC Contract No.:
Project No.: #04028
Title:
1819 BASEMENT-
STRUCTURAL

Sheet
S-100B



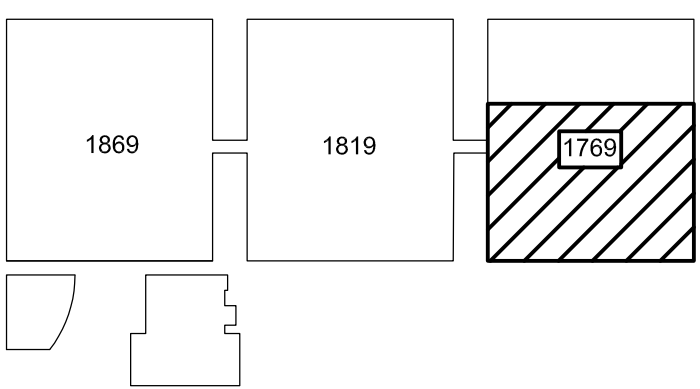
STRUCTURAL BASEMENT PLAN

SCALE: 1/8" = 1'-0"



FRAMING PLAN NOTES:

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2. "S1" INDICATES SLAB-ON-GRADE INFILL, VARYING THICKNESS (4" MIN.) NORMAL WEIGHT CONC. (FC=4,000 PSI) REIN. W/ ONE LAYER OF #4@16" O.C. LOCATED IN UPPER 1/3 OF SLAB DEPTH. TYPICAL UNLESS NOTED OTHERWISE. SLAB SHALL BE CAST OVER 6" (2x7) COMPACTED GRANULAR FILL.
3. INFILL EXISTING TUNNEL WITH FLOWABLE FILL IN 1'-0" MAXIMUM LIFTS. AFTER REPAIR, INFILL, AND WATERPROOFING OF BASEMENT WALL IS COMPLETED. MINIMUM COMPRESSIVE STRENGTH OF FILL SHALL BE 50 PSI. SUBSEQUENT POURS SHALL BE DONE ONLY AFTER THE PREVIOUS LAYER HAS SET AND CAN SUPPORT THE WEIGHT OF THE LAYER ABOVE.
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6. IN THE HATCHED REGION ADJACENT TO THE 1769 BUILDING (SHEETS 1009 AND 1000), EXISTING PAVEMENT AND OTHER FINISHES SHALL BE REMOVED TO EXPOSE THE TOP OF THE TUNNEL STRUCTURAL TOP SLAB FOR THE FULL WIDTH OF THE TUNNEL. FOR THE DIMENSION INDICATED ON THE PLAN. AFTER DEMOLITION WORK IS COMPLETED, THE AREA WILL BE INSPECTED BY THE STRUCTURAL ENGINEER TO DETERMINE THE OVERALL CONDITION OF THE SLAB. IF THE SLAB IS IN POOR CONDITION, THE REMAINING PAVEMENT OVER THE TUNNEL SHALL BE REMOVED, AS INDICATED IN NOTE 7.
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PBC Contract No.: #04028
Project No.: #04028
Title:

**1769 BASEMENT-
STRUCTURAL**

Sheet
S-100C

MECHANICAL ABBREVIATIONS	
LEGEND	
AC	AIR CONDITIONING UNIT OR AIR COMPRESSOR
ACH	AIR CHANGES PER HOUR
AHU	AIR HANDLING UNIT
APF	ABOVE FINISHED FLOOR
BD	BOTTOM OF DUCT - ABSOLUTE UNLESS NOTED ON DRAWINGS
BOP	BOTTOM OF PIPE
BT	BOTTOM
CAI	COMBUSTION AIR INTAKE
CAV	CONSTANT AIR VOLUME TERMINAL UNIT
CFM	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CHWS, CHWR	CHILLED WATER SUPPLY, CHILLED WATER RETURN
CHWS & R	CHILLED WATER SUPPLY AND CHILLED WATER RETURN
CO	CARBON MONOXIDE
CO2	CARBON DIOXIDE
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER (HOT WATER OR STEAM)
CW	COLD WATER OR CLOCKWISE
DB	DECIBEL DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DA	DIAMETER
DN	DOWN
DP	DIFFERENTIAL PRESSURE
DTWSR	DUAL TEMPERATURE WATER SUPPLY AND DUAL TEMPERATURE WATER RETURN
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EWT	ENTERING WATER TEMPERATURE
EA	EXHAUST AIR
F	DEGREE FAHRENHEIT
FD	FIRE DAMPER
FOT	FLOAT ON TOP
FP	FIRE PROTECTION
FS	FEET PER MINUTE
GPM	GALLONS PER MINUTE
GPR	GAS PRESSURE REGULATOR
H	HUMIDISTAT
HC	HEATING COIL
HP	HORSEPOWER OR HEAT PUMP
HWP	HEATING HOT WATER PUMP
HWS, HWR	HEATING HOT WATER SUPPLY, HEATING HOT WATER RETURN
HWS & R	HEATING HOT WATER SUPPLY AND HEATING HOT WATER RETURN
HVAC	HEATING, VENTILATION & AIR CONDITIONING
HZ	HERTZ
ID	INSIDE DIAMETER
E	INVERT ELEVATION
IN OR "	INCH
IN W.C.	INCHES WATER COLUMN
IN W.G.	INCHES WATER GAUGE
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LQ	LIQUID
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MD	MOTORIZED DAMPER
MIN	MINIMUM OR MINUTES
NC	NORMALLY CLOSE OR NOISE CRITERIA
NG	NATURAL GAS
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAI	OUTSIDE AIR INTAKE
OSD	OPPOSED BLADE DAMPER
PH	PHASE
PD	PRESSURE DROP
PRV	PRESSURE REDUCING VALVE
PSIA	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	POUNDS PER SQUARE INCH GAUGE
QTY	QUANTITY
R, RET	RETURN
RH	RELATIVE HUMIDITY
RHC	REHEAT COIL
RPM	REVOLUTIONS PER MINUTE
SD	SMOKE DAMPER OR SMOKE DETECTOR
SF	SUPPLY FAN OR SQUARE FEET
SQ.FT.	SQUARE FEET
SUC	SUCTION
S, SUP	SUPPLY
TYP	TYPICAL
UH	UNIT HEATER (HYDRONIC OR STEAM)
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VSD	VARIABLE SPEED DRIVE
W	WITH
WMS	WIRE MESH SCREEN

GENERAL MECHANICAL NOTES:

- ALL WORK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH BUILDING STANDARDS AND ALL APPLICABLE CODES.
- MECHANICAL CONTRACTOR SHALL PROVIDE ALL STARTERS FOR INSTALLATION BY ELECTRICAL CONTRACTOR.
- IN CASES WHERE MECHANICAL AND ELECTRICAL EQUIPMENT LOADINGS LISTED ON THE MANUFACTURERS PRODUCT DATA SHEETS EXCEEDS DESIGN LOADS INDICATED ON DESIGN DOCUMENTS, (SEE "F" DRAWINGS) CONTRACTOR SHALL NOTIFY STRUCTURAL ENGINEER AND ARCHITECT PRIOR TO PROCEEDING WITH WORK.
- COORDINATE WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS TO SHOW MECHANICAL PIPES, INCLUDING REQUIRED INSULATION THICKNESS, ON ARCHITECTURAL BACKGROUND DRAWINGS TO ASSURE THAT THERE IS SUFFICIENT CLEARANCE FOR THE PIPES BELOW THE FLOOR STEEL AND ABOVE THE CEILING, OR OTHER STRUCTURAL/ARCHITECTURAL ELEMENTS.
- ALL MECHANICAL EQUIPMENT WILL BE PLACED ON CONCRETE HOUSE KEEPING PADS. ALL HOUSEKEEPING PADS WILL BE A MINIMUM OF 4" HIGH AND WILL EXTEND BEYOND THE UNIT A MINIMUM OF 4". COORDINATE WITH ARCHITECTURAL AND STRUCTURAL.
- THE DRAWINGS ARE DIAGRAMMATIC. THE COORDINATED LAYOUT, FABRICATION, AND INSTALLATION OF THE WORK, INCLUDING OFFSETS, STACKED DUCTWORK, PIPING ARRAYS, ETC., TO ACHIEVE PROPER FIT, OPERATIONAL AND MAINTENANCE CLEARANCES SHALL BE INCLUDED IN THE BASE BID AND INDICATED ON COORDINATED SHOP DRAWINGS THAT INCLUDE THE WORK OF THIS TRADE FULLY COORDINATED WITH THE WORK OF ALL OTHER TRADES.
- THE GENERAL CONTRACTOR, THROUGH THE WORK OF THE TRADE COORDINATOR IS RESPONSIBLE FOR THE OVERALL COORDINATION OF ALL HVAC, PLUMBING, FIRE PROTECTION, ELECTRICAL, AND SITE UTILITY WORK.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR LOCATIONS AND MINIMUM RATINGS OF FIRE RATED ASSEMBLIES (INCLUDING WALL AND FLOOR ASSEMBLIES). ALL PENETRATIONS THROUGH FIRE-RATED WALL AND FLOOR ASSEMBLIES FOR MECHANICAL, PLUMBING, ELECTRICAL, AND FIRE PROTECTION WORK SHALL BE FIRE STOPPED AND SMOKE SEALED WITH TESTED UL ASSEMBLY MEETING OR EXCEEDING THE HOURLY FIRE RATING OF THE DESIGN ASSEMBLY. REFER TO ARCHITECTURAL DRAWINGS FOR TYPICAL FIRESTOPPING DETAILS. WHETHER SHOWN ON DRAWINGS OR NOT, THE MECHANICAL CONTRACTOR WILL PROVIDE A FIRE DAMPER IN ALL ASSEMBLIES 2-HR RATED OR BETTER.
- EXISTING BUILDING SERVICES WHERE PRESENT SHALL BE MAINTAINED AND TEMPORARY SERVICES SHALL BE PROVIDED WHEN REQUIRED. IN THE EVENT THAT SHUTDOWN CANNOT BE AVOIDED, THE SERVICE INTERRUPTION SHALL BE WITH MINIMUM INCONVENIENCE TO THE OCCUPANTS AND WITH THE APPROVAL AND/OR UNDER THE SUPERVISION OF THE ARCHITECT AND OWNER.
- THE CONTRACTOR SHALL MAKE ALL NECESSARY PROVISIONS TO PURSUE THEIR WORK IN A MANNER, WHICH WILL ASSURE THAT THE OPERATION OF THE BUILDING IS MINIMALLY IMPAIRED. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, DELIVERY OF SUPPLIED, TEMPORARY UTILITY CONNECTIONS, ETC.
- CUTTING AND PATCHING FOR THEIR WORK SHALL BE PERFORMED BY EACH TRADE CONTRACTOR UNLESS NOTED OTHERWISE.
- ANY DEMOLITION WORK WHERE REQUIRED SHALL INCLUDE REMOVAL OF ALL EQUIPMENT, PLUMBING FIXTURES, DUCTWORK, PIPING, CONDUIT AND OTHER EQUIPMENT AND MATERIALS BY TRADE AFFECTED. ALL MATERIAL SHALL BE REMOVED TO DUMPSTER PROVIDED BY GENERAL CONTRACTOR. UNUSED PIPING AND DUCTWORK CONCEALED IN WALLS, CEILINGS AND FLOORS SHALL BE CAPPED AND SEALED AT THEIR TERMINATION POINTS.
- CONTRACTOR SHALL EXERCISE CARE TO AVOID DAMAGING EXISTING WORK WHICH IS TO REMAIN AS PART OF THE REMODELED SPACE. DAMAGE SHALL BE REPAIRED AT CONTRACTORS EXPENSE.

SYMBOL LIST			
VENTILATION SYMBOLS		MECHANICAL SYMBOLS	
SINGLE LINE	DOUBLE LINE	SYMBOL	DESCRIPTION
			PRESSURE GAUGE AND COCK
			STRAINER
			STRAINER W/BLOW-OFF VALVE
			THERMOMETER
			PRESSURE / TEMPERATURE SENSOR
			CAP
			UNION
			ANCHOR WALL/ALIGNMENT GUIDES
			EXPANSION JOINT
			FLEXIBLE CONNECTION
			PRESSURE RED VALVE
			RELIEF VALVE
			TRIPLE DUTY VALVE
			CHECK VALVE (SP) SPRING
			BALANCING VALVE
			GLOBE VALVE
			GATE VALVE
			BUTTERFLY VALVE - WHEN DA > 2"
			BALL VALVE - WHEN DA < 2"
			VALVE WITH MEMORY STOP
			GAS COCK
			CONTROL VALVE, 2-WAY
			CONTROL VALVE, 3-WAY
			EMERGENCY SOLENOID VALVE
			CIRCUIT SETTER
			CODE BACKFLOW PREVENTOR
			UNIT HEATER - VERTICAL
			UNIT HEATER - HORIZONTAL
			PIPE DOWN
			PIPE UP
			EXISTING PIPING TO BE REMOVED (HEAVY LINE)
			EXISTING PIPING TO REMAIN (LIGHT LINE)
			NEW PIPING (HEAVY LINE)
			PIPING ASSEMBLY - SEE DETAIL
			VENT (MANUAL OR AUTOMATIC)
			FLOW CONTROL FITTING
			FLOW INDICATOR
			FLOW SWITCH
			PRESSURE SWITCH
			BASE MOUNTED PUMP - SEE DETAIL
			INLINE PUMP - SEE DETAIL
			EQUIPMENT (SPECIFIED BY TAG BELOW)
			EQUIPMENT TAG W/NUMBER
			DRAIN LINE
			GAS LINE
			VENT LINE
			HOT WATER HEATING SUPPLY
			HOT WATER HEATING RETURN

ELECTRIC UNIT HEATER SCHEDULE																
TAG	LOCATION	DIMENSIONS	CFM	HEATING COIL DATA			FAN DATA			ELECTRICAL DATA			UNIT WEIGHT (LBS)	BASIS OF DESIGN		NOTES
				EAT	LAT	KW	STAGES	QTY	HP	VOLT	PH	HZ		MANFR.	MODEL	
EUH-1	CARPENTER SHOP	24x19.5x12.5	350	60	87	3	1	1	1/100	208	1	60	49	QMARK	MSPH	1,2
1. PROVIDE W/ PREWIRED DISCONNECT SWITCH AND REMOTE THERMOSTAT. 2. PROVIDE W/ OUTLET DUCT FLANGE AND INLET FILTER RACK.																

PUMP SCHEDULE															
UNIT NO.	SYSTEM	TYPE	FLUID TYPE	CAPACITY (GPM)	CAPACITY (GAL)	DISCHARGE (PSI)	MOTOR				BASIS OF DESIGN		WEIGHT (LBS)	REMARKS	
							BHP	HP	RPM	VSD	V/PHHZ	MANUFACTURER			MODEL
CP-1	CONDENSATE	DUPLEX	WATER	18	14	20	-	1/3	3500	NO	1201/60	BELL & GOSSETT	WCD12-208-MA	220	1, 2
1. PROVIDE W/ CAST IRON RECEIVER W/ 20 YEAR WARRANTY.															
2. PROVIDE W/ DOUBLE POLE MECHANICAL ALTERNATOR AND STAINLESS STEEL FLOAT AND ROD.															

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1819 W PERSHING ROAD
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Project No: #04028
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MECHANICAL GENERAL NOTES



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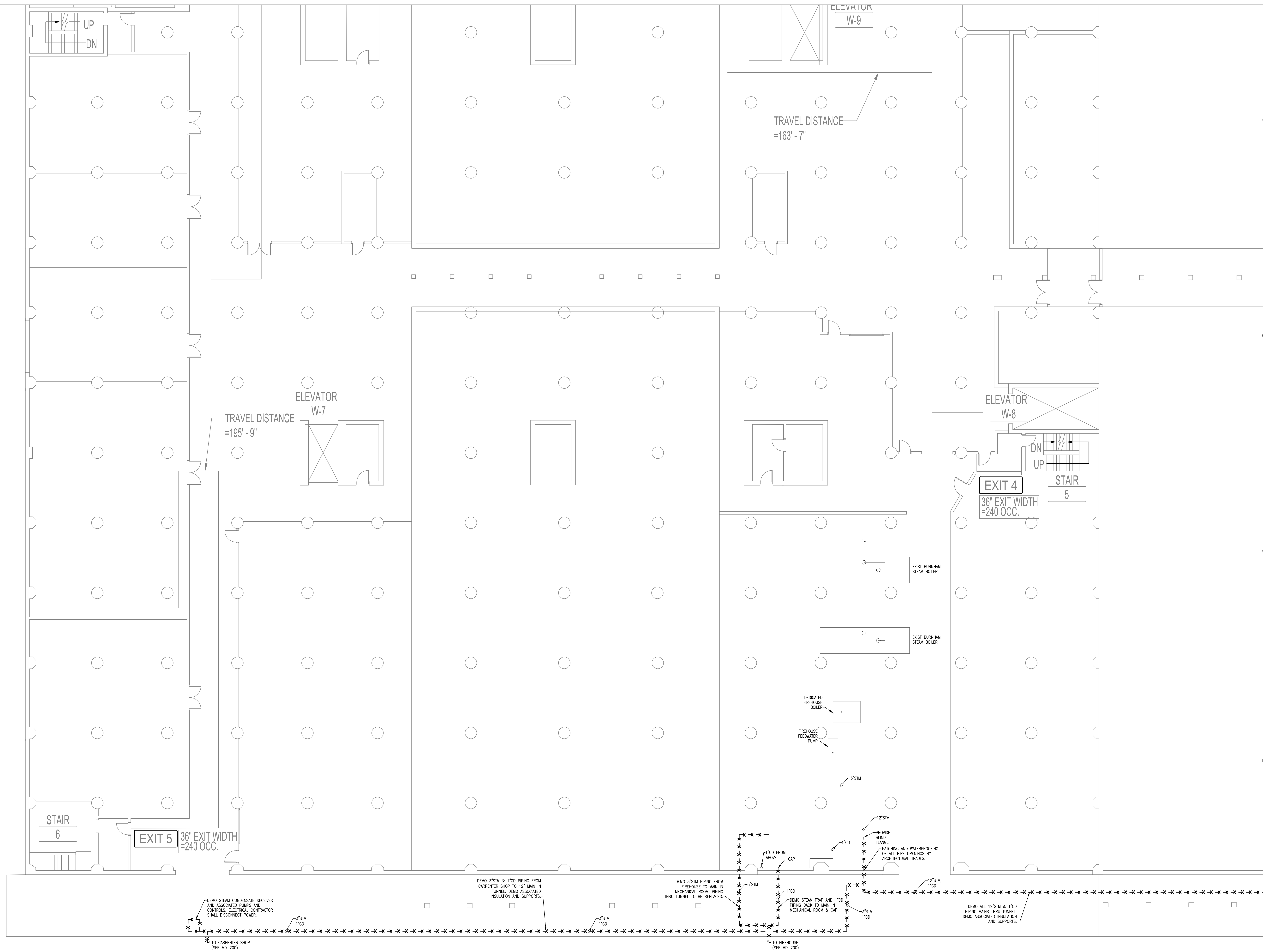
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Sheet
M-002



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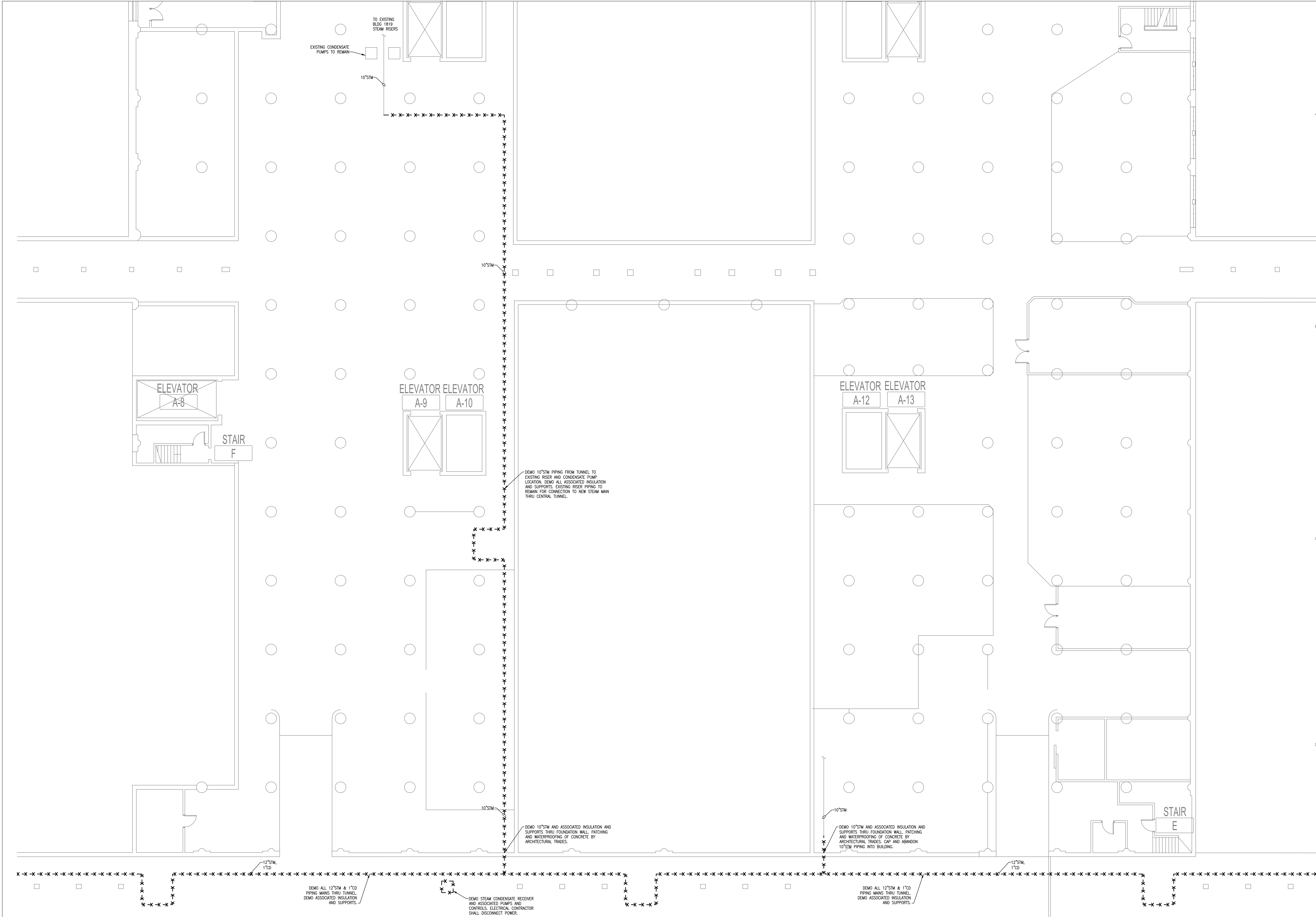
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BASEMENT MECH DEMO PLAN - 1869

Sheet

MD-100

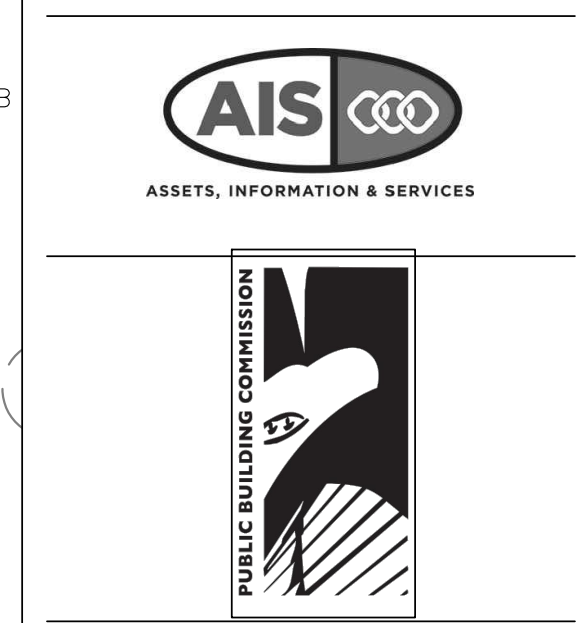


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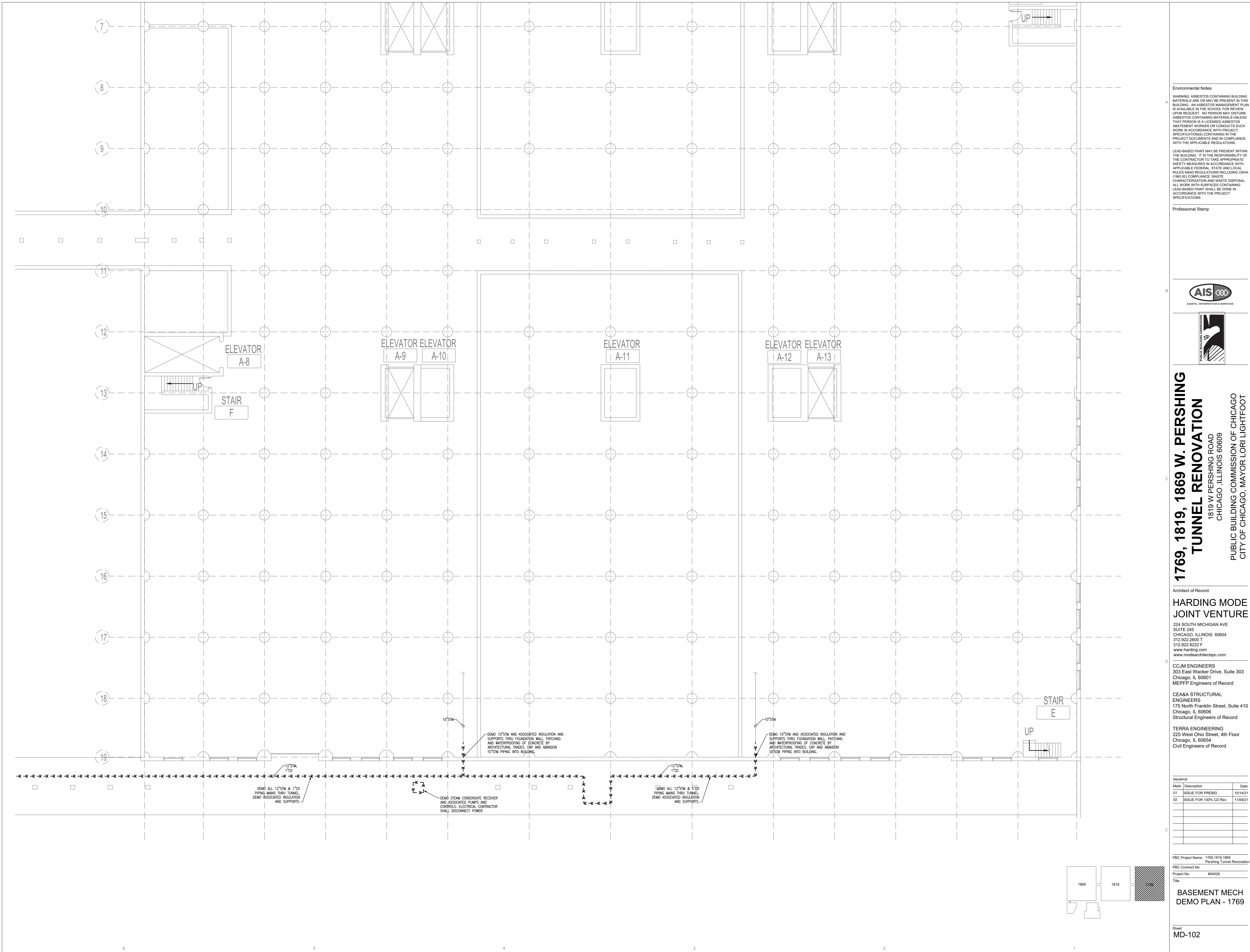
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**BASEMENT MECH
DEMO PLAN - 1819**

Sheet
MD-101



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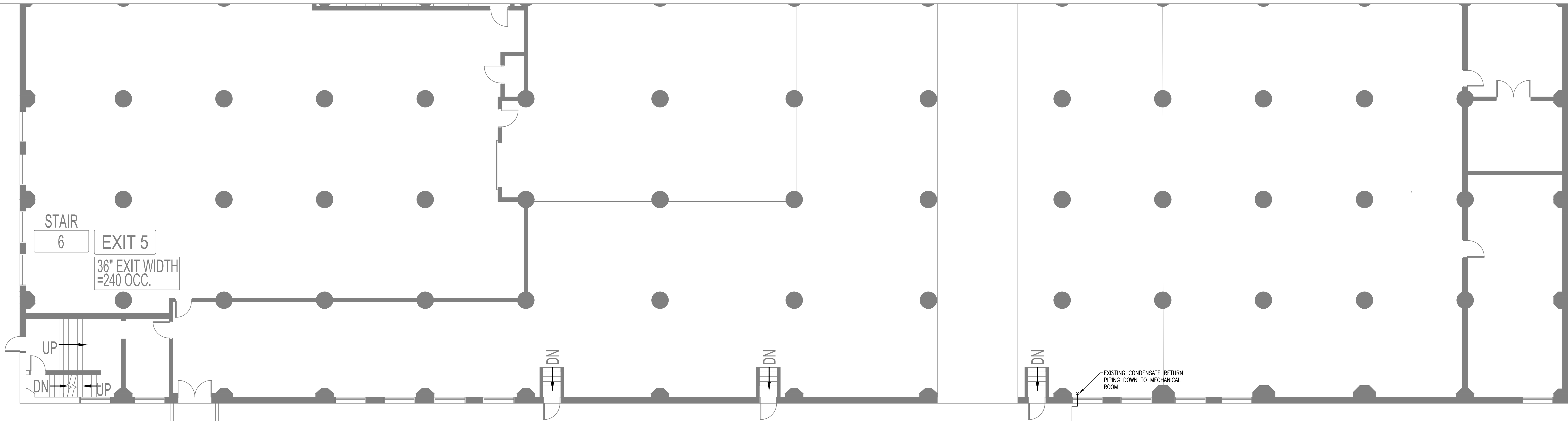
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**BASEMENT MECH
DEMO PLAN - 1769**

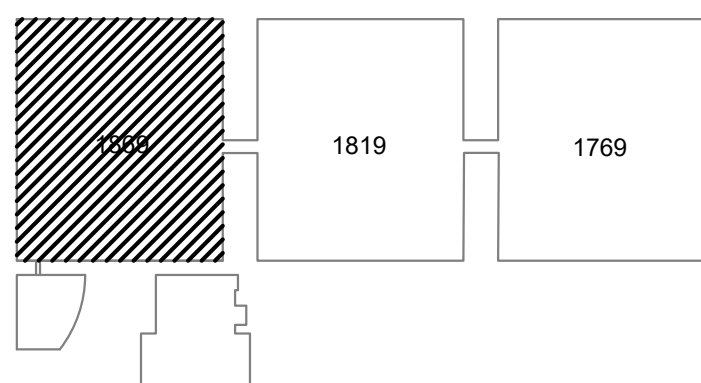
Sheet
MD-102



EXISTING CONDENSATE RETURN
PIPING DOWN TO MECHANICAL
ROOM

EXISTING OVERHEAD INSULATED
1" CD PIPING TO REMAIN

EXCAVATE AND DEMO 3"STM THRU SLAB INTO
TUNNEL. STEAM PIPING IN FIREHOUSE TO
REMAIN FOR CONNECTION TO NEW WORK. SEE
MD-100 FOR CONTINUATION.

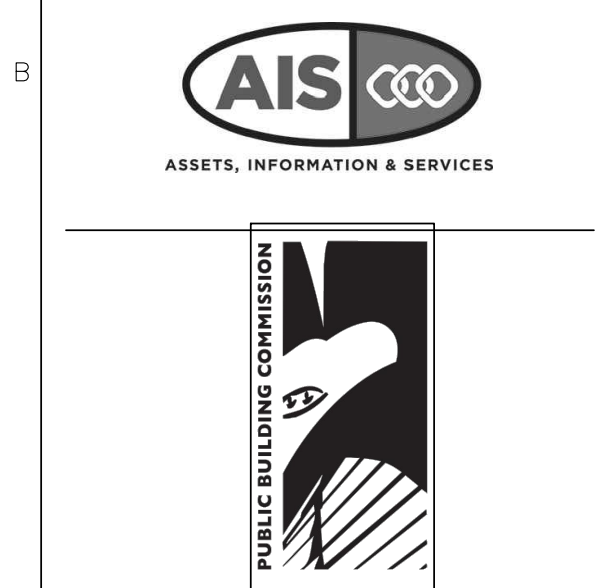


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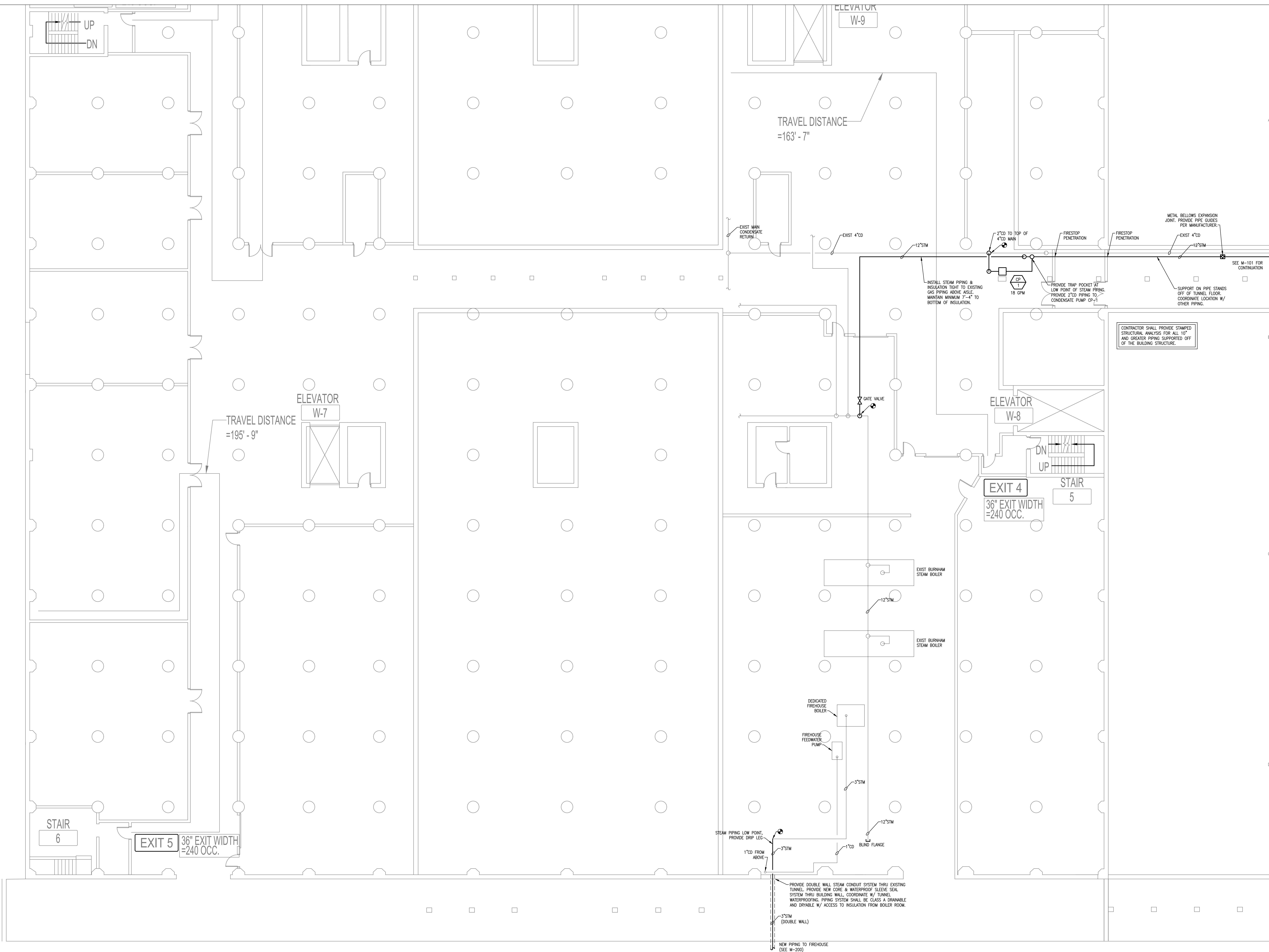
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Project No: #04028

Title

**GROUND FLOOR
MECH DEMO PLAN
- 1869**

Sheet
MD-200



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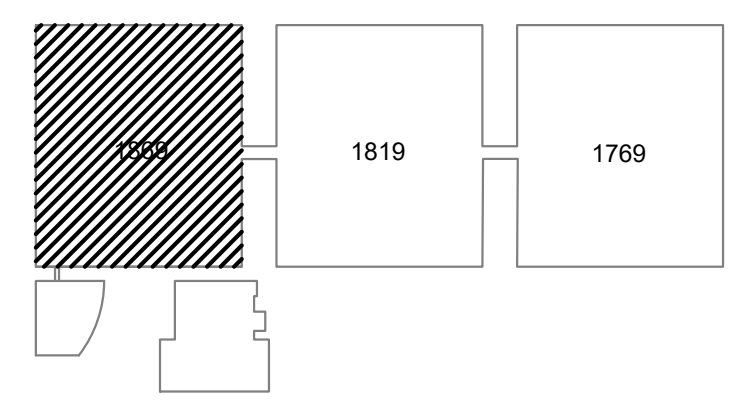
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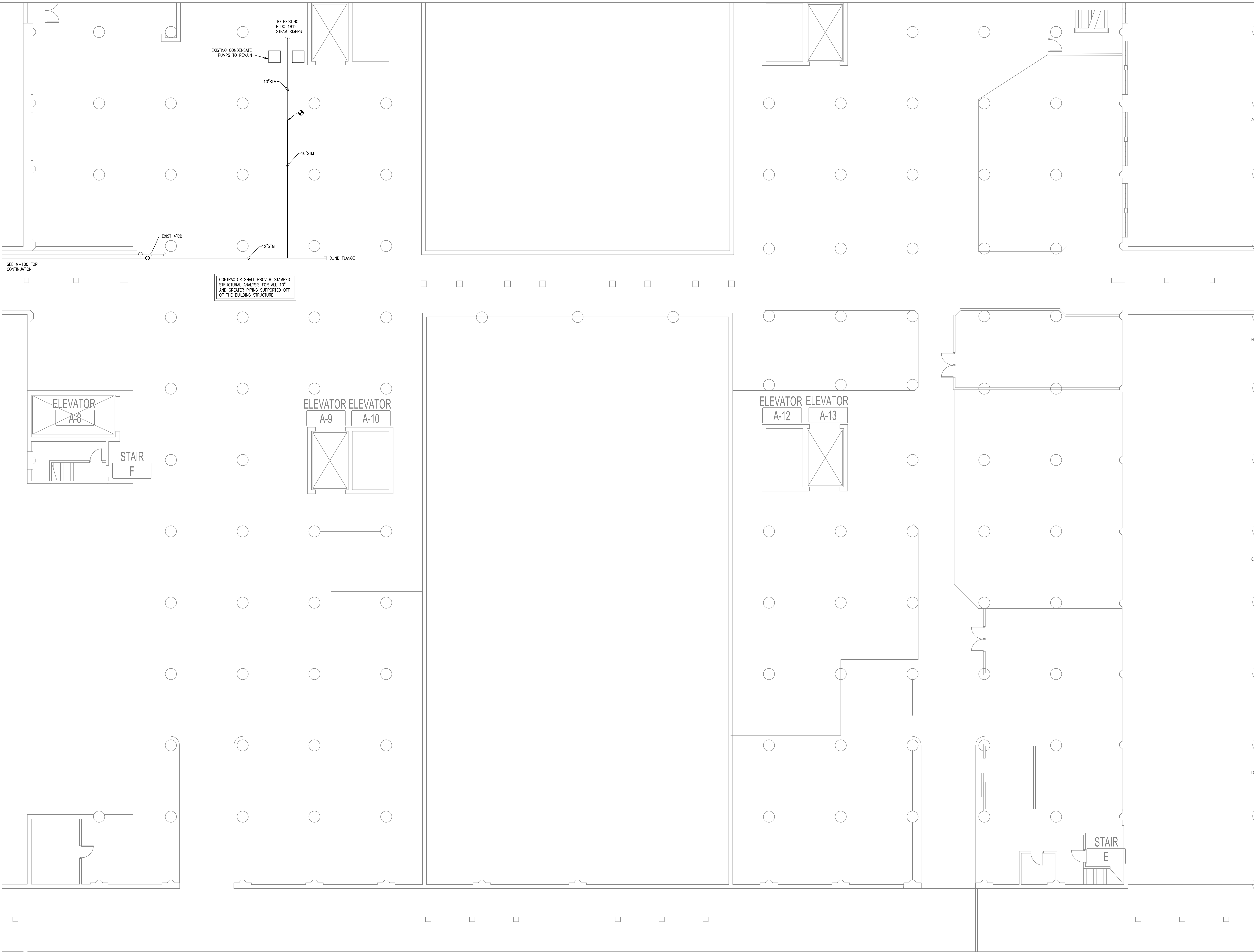
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BASEMENT MECH NEW WORK PLAN - 1869

Sheet

M-100



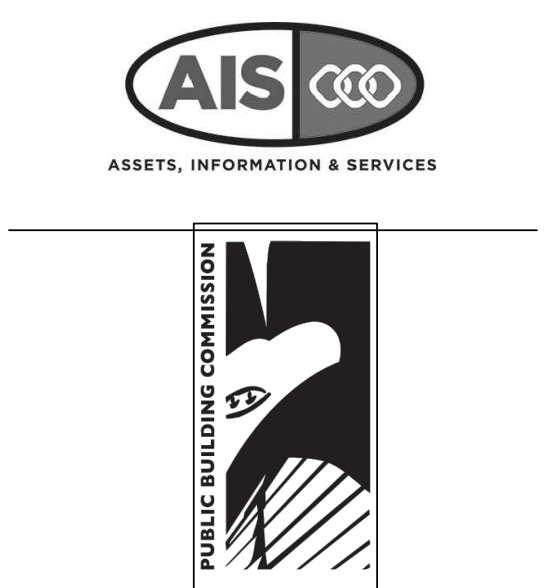


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TUNNEL RENOVATION**
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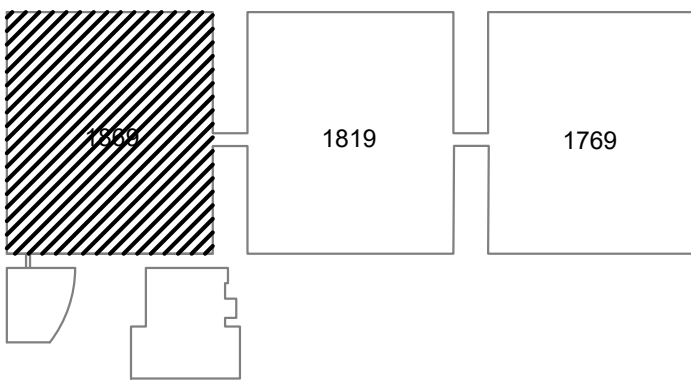
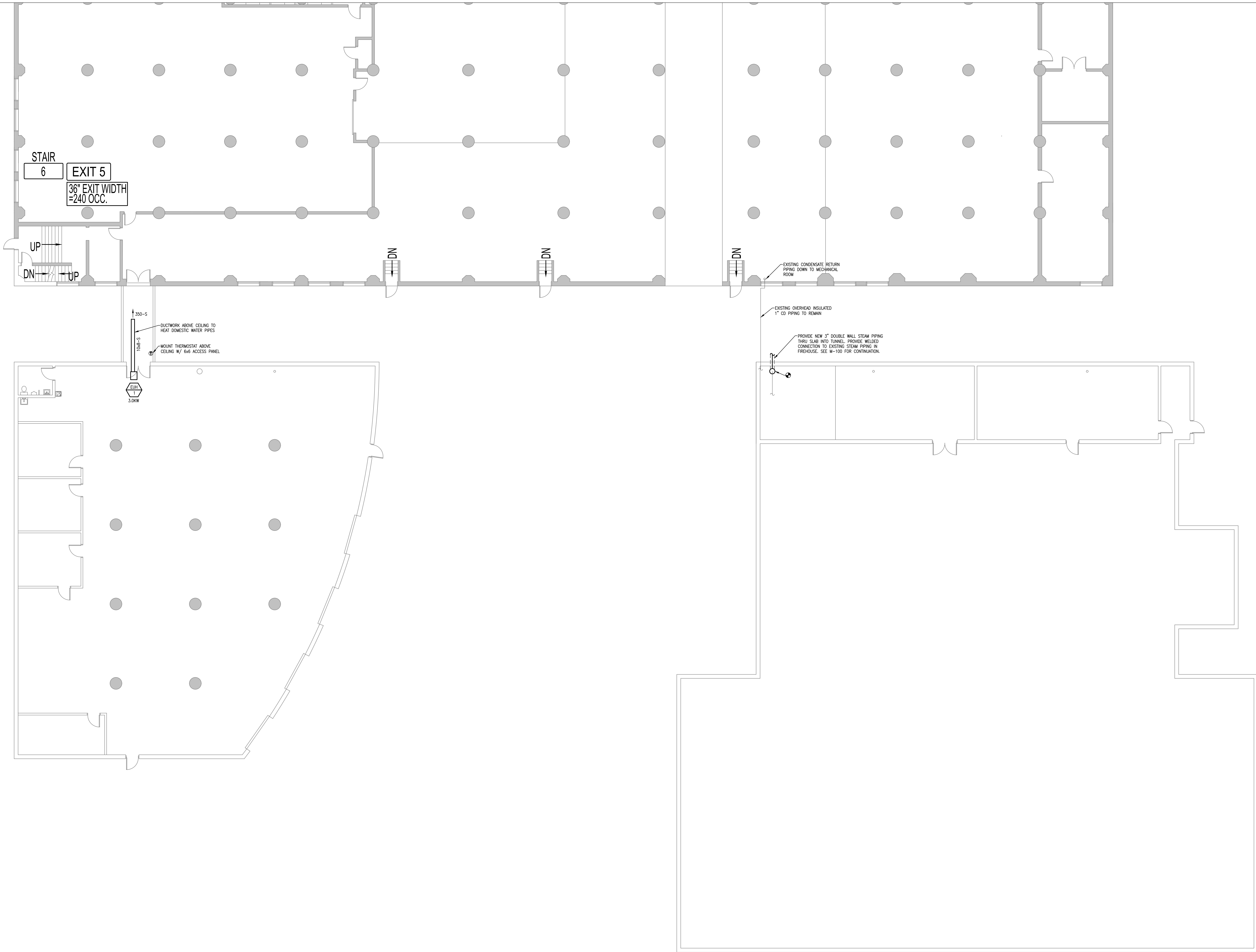
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01	ISSUE FOR PREBID	10/14/21
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PBC Project Name: 1769, 1819, 1869
Pershing Tunnel Renovation

PBC Contract No:
Project No: #04028

Title
**BASEMENT MECH
NEW WORK PLAN
- 1819**

Sheet
M-101

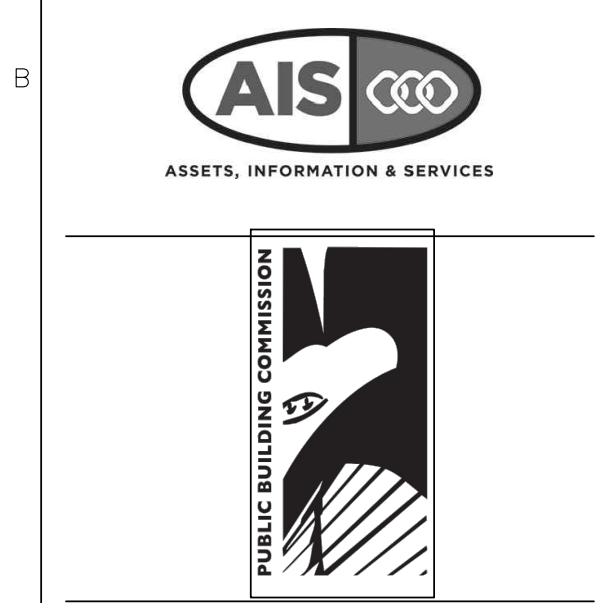


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PBC Project Name: 1769, 1819, 1869 Pershing Tunnel Renovation
PBC Contract No: #04028
Project No: #04028
Title
**GROUND FLOOR
MECH NEW WORK
PLAN - 1869**

Sheet
M-200

LIGHTING SYMBOLS	
	WALL MOUNT BRACKET TYPE WRAP AROUND LIGHT FIXTURE
FIRE ALARM SYMBOLS	
	FIRE ALARM CONTROL PANEL
	FIRE ALARM RELAY
	FIRE ALARM SUPERVISORY WATER FLOW SWITCH
GENERAL ELECTRICAL SYMBOLS	
	ELECTRICAL PANEL
	ELECTRICAL PAD MOUNT TRANSFORMER
	ELECTRICAL JUNCTION BOX
	ELECTRICAL JUNCTION BOX WITH FLEX CONNECTION
	MOTOR
	NON-FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	CONDUIT RUN CONCEALED IN CEILING OR WALL CONDUIT RUN CONCEALED IN OR BELOW FLOOR CONDUIT RUN EXPOSED ON CEILING OR WALL CONDUIT STUBBED UP CONDUIT STUBBED DOWN
	EQUIPMENT TAG
WIRING NOTES	
A. BRANCH CIRCUIT WIRING FOR 120 VOLT 20 AMP CIRCUITS WIRED TO 208Y/120V SYSTEMS SHALL BE ADJUSTED FOR DISTANCE VOLTAGE DROP AND LOAD HARMONIC CONTENTS AS FOLLOWS: 1. GENERAL RECEPTACLES, INCANDESCENT LIGHTING, AND RESISTIVE LOADS: UP TO 100 FEET IN LENGTH: 3#12, 1#10N, 1#12G - 34°C OVER 100 FEET IN LENGTH: 3#10, 1#10N, 1#10G - 34°C 2. COMPUTER RECEPTACLES, FLOURESCENT AND HID LIGHTINGS, AND INDUCTIVE LOADS: UP TO 100 FEET IN LENGTH: 3#12, 1#10N, 1#12G - 34°C OVER 100 FEET IN LENGTH: 3#10, 1#8N, 1#10G - 34°C	

ABBREVIATIONS	
NOTE: ABBREVIATIONS ARE ALPHABETICALLY LISTED BY DESCRIPTION.	
ABBREV. DESCRIPTION	ABBREV. DESCRIPTION
ABT ABOVE FINISHED FLOOR	KVA KILOVOLT-AMPERE
ACL ACROSS THE LINE	KO KNOCKOUT
AJL AUTHORITY HAVING JURISDICTION	LTO LIGHTING
ALM ALARM	LS LOUD SPEAKER
AC ALTERNATING CURRENT	LV LOW VOLTAGE
ACS AUXILIARY CONTACTS	MDF MAIN DISTRIBUTION FRAME
A AMPERE	MH MANHOLE
AIC AMPERES INTERRUPTING CAPACITY	MFR MANUFACTURER
AL ALUMINUM	MV MULTI VAPOR
ANN ANNUNCIATOR	MERC MERCURY VAPOR
ATS AUTOMATIC TRANSFER SWITCH	MTR MOTOR
AWG AMERICAN WIRING GAUGE	MCC MOTOR CONTROL CENTER
BAL BALLAST	MTD MOUNTED
BAS BAS CONTROL CONSOLE	N NATIONAL ELECTRICAL CODE
BR BRANCH	N NEUTRAL
BRKR BREAKER	NC NORMALLY CLOSED
BGB BUILDING GROUND BOX	NO NORMALLY OPENED
CAB CABINET	NOT IN CONTRACT
CATV CABLE TELEVISION	NTS NOT TO SCALE
C.B. CIRCUIT BREAKER	PNL PANEL
CCTV CLOSED CIRCUIT TELEVISION	PH PHASE
CLO CLOSET	PT POTENTIAL TRANSFORMER
COAX COAXIAL	PRR POWER
C.U. COEFFICIENT OF UTILIZATION	PROT. PROTECTION OR PROTECTIVE
CEC CHICAGO ELECTRICAL CODE	PA PUBLIC ADDRESS
CECO COMMONWEALTH EDISON COMP.	PB PULL BOX
C CONDUIT	RT RANTIGHT
CONN CONNECTION	RECP RECEPTACLE
CONV CONCERNENCE	RC REMOTE CONTROL
CPS CHICAGO PUBLIC SCHOOL	R RESISTANCE
COPR COPPER	RLP RELAY LIGHTING PANEL
CUH CABINET UNIT HEATER	SEC SECONDARY
CT CURRENT TRANSFORMER	SC SHORT CIRCUIT
HZ HERTZ (CYCLES/SECOND)	SP SINGLE POLE
DG DISCONNECT SWITCH	SPST SINGLE POLE SINGLE THROW
DPDT DOUBLE POLE DOUBLE THROW	SPKR SPEAKER
DT DOUBLE POLE SINGLE THROW	SPEC SPECIFICATION
DT DRAWOUT	SS STAINLESS STEEL
DT STATION	STA STATION
E.C. ELECTRICAL CONTRACTOR	SWB SWITCHBOARD
E.E. ELECTRIC WATER COOLER	SWGR SWITCHGEAR
EMW ELECTRIC WATER HEATER	SHM SYMMETRICAL
EMT EMERGENCY	SYS SYSTEM
EO ELECTRIC METALLIC TUBING EQUIPMENT	TC TERMINAL, CABINET
	TEL TELEPHONE
	TEL CL. TELEPHONE CLOSET
	TEL. TELEPHONE TERMINAL CABINET
EUH ELECTRIC UNIT HEATER	TV TELEVISION (9" - 0" AFF COORDINATE WITH ARCHITECT TERMINAL)
EX EXISTING TO REMAIN	TERM. TERMINAL
EP EXPLOSION PROOF	CP CIRCUIT BREAKER
FPB FAN POWERED BOX	TX TRANSFORMER
FA FIRE ALARM	TRIP TRIP
FDC FIRE DEPARTMENT CONNECTION	TVSS TRANSIENT VOLTAGE SURGE SUPPRESSION
FDB FLOORBOX	TL TWIST LOCK
FLOOR FLOURESCENT	UC UNDER COUNTER
F FUSE	UH UNIT HEATER
F.S. FUSED SWITCH	UL UNDERWRITER'S LABORATORIES
GEN GENERATOR	UNG UNGROUND
GFP GROUND FAULT PROTECTION	UNO UNLESS NOTED OTHERWISE
GRD GROUND	UPS UNINTERRUPTIBLE POWER SUPPLY
GRV GALVANIZED HEAVYWALL STEEL CONDUIT	VARIABLE FREQUENCY DRIVE
HV HIGH VOLTAGE	VP VAPORPROOF
HP HORSE POWER	V VOLT
H PRESSURE DISCS	VA VOLT-AMPERE
INC INCANDESCENT	VF VERIFY IN FIELD
I INTERRUPTING CAPACITY	W WATERIGHT
IG ISOLATED GROUND	WT WATERIGHT
IMC INTERMEDIATE STEEL CONDUIT	WP WEATHERPROOF
JB JUNCTION BOX	XP EXISTING TO BE REMOVED
KCMI CIRC. MILES WIRE CROSS SECTION AREA	XRL EXISTING TO BE RELOCATED
KWH KILOWATT	
KWH KILOWATT-HOUR	

GENERAL NOTES	DEMOLITION NOTES
1. THIS SHEET OF SYMBOLS AND NOTES IS A STANDARD LIST. NOT ALL ITEMS MAY BE USED OR APPLY TO THIS SPECIFIC JOB.	1. ELECTRICAL CONTRACTOR SHALL REMOVE ALL ELECTRICAL EQUIPMENT AFFECTED BY THE DEMOLITION AND RETURNED TO OWNER AS REQUIRED. COORDINATE EXACT SCOPE OF WORK WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS.
2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL WIRING DEVICES, OUTLETS, LIGHTING FIXTURES, LIFE SAFETY SPEAKERS, SMOKE DETECTORS, ETC.	2. ALL EQUIPMENT REMOVED, SUCH AS LIGHTING FIXTURES, SWITCHES, RECEPTACLES, WIREMOLD, BREAKERS, WIRE, ETC., SHALL BE STORED OR DISPOSED OF AS DIRECTED BY THE OWNER OR PROJECT MANAGER.
3. WHERE OUTLETS/DEVICES ARE LOCATED ON WALLS OR COLUMNS/PIERS, CENTER ON PIER/COLUMN ENCLOSURE, UNLESS NOTED OTHERWISE.	3. WHERE EXISTING DEVICES, CONDUIT WIRE, SUPPORTS, HANGERS AND OTHER ELECTRICAL EQUIPMENT MUST BE REMOVED AS A RESULT OF THE ALTERATIONS, THEY SHALL BE COMPLETELY REMOVED BACK TO THE FIRST OUTLET WHICH IS LEFT UNAFECTED. IF REMOVED BACK TO THE PANEL, LABEL THAT CIRCUIT AS SPACE.
4. REFER TO PANEL DIVISION LINES FOR BRANCH CIRCUIT HOMERUN PANELBOARD DESIGNATION, UNLESS NOTED OTHERWISE.	4. ALL WIRING THAT WILL BE RENDERED INACTIVE BY THIS PROJECT SHALL BE DISCONNECTED AT ITS SOURCE OF SUPPLY, AND ALL ASSOCIATED RACEWAY REMOVED. INACTIVE EMBEDDED CONDUIT SHALL BE CUT FLUSH TO WALLS, CEILINGS OR FLOORS AND SEALED. IN SUCH CASES, WIRE SHALL BE PULLED OUT OF THE CONDUIT AND THE CONDUIT ITSELF PLUGGED/CAPPED AT EACH END.
5. EXISTING CONDITIONS SHOWN ON DRAWINGS ARE BASED ON CURSORY VISUAL INSPECTIONS OF THE SITE AND ON THE AVAILABLE ORIGINAL CONSTRUCTION DRAWINGS. THEY ARE PROVIDED FOR GENERAL SCOPE AND REFERENCE PURPOSES ONLY AND ARE NOT INTENDED TO BE A TRUE AND COMPLETE REPRESENTATION OF EXISTING SITE CONDITIONS.	5. PATCH ALL HOLES IN SLABS, WALLS AND CEILING WHERE ELECTRICAL DEVICES AND/OR CONDUIT ARE REMOVED. IF THE REMOVAL OF CONDUIT, BOXES, EQUIPMENT, ETC. COMPROMISES THE FIRE RATING OF THESE ITEMS, THE CONTRACTOR SHALL SEAL OPENINGS WITH CODE APPROVED FIRE STOPPING MATERIAL.
6. THE CONTRACTOR SHALL INSPECT THE SITE AND EXAMINE THE WORK BEFORE SUBMITTING HIS PROPOSAL. HE SHALL NOTE THE LOCATION OF EXISTING FACILITIES, THE EXTENT OF HIS WORK, OR INTERFERENCE BY OTHER TRADES WITH HIS WORK. ANY DISCREPANCIES SHOULD BE DISCUSSED WITH THE PBC/PCS PROJECT MANAGER PRIOR TO BIDS.	6. ANY PORTION OF THE EXISTING CONDUIT SYSTEM THAT IS TO BE REUSED FOR THE NEW INSTALLATION SHALL BE EXAMINED TO ENSURE THAT THE CONDUIT IS CLEAN, FREE OF CORROSION, FREE OF DAMAGE AND ADEQUATELY SUPPORTED AND INSPECTED FOR CONTINUITY OF GROUND AND DOES NOT INTERFERE WITH NEW CONSTRUCTION.
7. BECOME THOROUGHLY FAMILIAR WITH THE PROJECT SPECIFICATIONS BEFORE COMMENCING ANY WORK. THE PROJECT SPECIFICATIONS & DRAWINGS FORM THE BASIS OF THE CONTRACT REQUIREMENTS & INCLUDE THE TYPE & GRADE OF MATERIALS TO BE INSTALLED, EQUIPMENT TO BE FURNISHED, THE MANNER BY WHICH TO BE INSTALLED & WHERE TO BE LOCATED. IN THE EVENT OF A CONFLICT BETWEEN THE PROJECT SPECIFICATIONS & DRAWINGS, THE SPECIFICATIONS SHALL GOVERN UNLESS THE ARCHITECT/ENGINEER DIRECTS OTHERWISE.	7. WHERE EXISTING ELECTRICAL WORK PREVENTS PROPER CONSTRUCTION OF NEW WORK, REMOVE, REROUTE, RELOCATE, OR IN OTHER WAYS ALTER EXISTING WORK TO ACCOMMODATE.
8. CONTRACTOR SHALL COORDINATE THE WORK WITH EXISTING FIELD CONDITIONS & THE WORK OF OTHER TRADES. UNRESOLVABLE CONFLICTS OR INTERFERENCES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE PBC/PCS PROJECT MANAGER.	8. SOME EXCEPTIONS MAY ARISE WHEREIN EQUIPMENT, EITHER IN ALTERED AREAS OR OTHER AREAS, MUST BE KEPT IN SERVICE, REQUIRING THAT FEEDERS, SIGNAL CONDUCTORS, CONDUITS, BOXES ETC. SERVING THE SAME ALSO BE KEPT IN SERVICE. IN SUCH CASES, THE ELECTRICAL FEEDERS, SIGNAL CONDUCTORS, CONDUITS, ETC. SHALL BE REROUTED AND RECONNECTED BEFORE PRESENT WORK IS REMOVED. IF THIS IS NOT POSSIBLE, TEMPORARY WIRING SHALL BE PROVIDED TO ALLOW FOR INSTALLATION OF NEW WORK, AFTER WHICH TEMPORARY WIRING SHALL BE REMOVED.
9. ALL AUXILIARY ELECTRICAL COMPONENTS, OR CONTROL & POWER WIRING, REQUIRED TO ENSURE THE FUNCTIONALITY OF THE ITEMS SHOWN ON THE DRAWINGS SHALL BE PROVIDED, EVEN IF NOT SPECIFICALLY SHOWN ON THE DRAWINGS. THIS INCLUDES SUCH ITEMS AS LOW VOLTAGE CONTROL POWER AND WIRING TO REMOTE MOUNTED INTERLOCK DEVICES. CONTRACTOR SHALL CONSULT ALL TRADES FURNISHING EQUIPMENT & OBTAIN FROM THEM ALL DATA AND INSTALLATION INSTRUCTIONS TO ENSURE THAT ALL ELECTRICAL REQUIREMENTS ARE INCLUDED.	9. ALL PROPOSED DEMOLITION WORK SHALL BE THOROUGHLY COORDINATED WITH ALL OTHER TRADES.
10. DRAWINGS ARE DIAGRAMMATIC & DO NOT SHOW ALL OF THE RACEWAY, BOXES, PENETRATIONS, SUPPORTS AND OTHER COMPONENTS THAT ARE REQUIRED TO COMPLETE THE WORK. ONLY MAJOR ITEMS ARE SHOWN ON THE DRAWINGS. PROVIDE ALL WORK AS REQUIRED FOR A COMPLETE AND FULLY FUNCTIONAL ELECTRICAL SYSTEM.	10. CONTRACTOR IS TO PERFORM DEMOLITION WORK IN A NEAT, SKILLFUL, AND CAREFUL MANNER SO AS NOT TO DAMAGE OR DEFACE EXISTING CONSTRUCTION THAT IS TO REMAIN.
11. EQUIPMENT MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS AND ALL LABELS AND WARNINGS AFFIXED TO THE INSTALLED EQUIPMENT SHALL BE STRICTLY ADHERED TO.	11. CONFORM WITH THE MANUFACTURERS OF EXISTING EQUIPMENT THAT IS TO BE REVISED OR EXTENDED. ENSURE THAT EXISTING EQUIPMENT COMPLIES WITH NEW WORK REQUIREMENTS.
12. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE 2018 CHICAGO ELECTRICAL CODE, ALL APPLICABLE CODES AND REGULATIONS.	12. ELECTRICAL CONTRACTOR TO REROUTE, AND REFEED ALL EXISTING EQUIPMENT/DEVICES TO REMAIN BUT MAY BE AFFECTED BY EQUIPMENT BEING DEMOLISHED.
13. CONDUCTOR SIZING, BREAKER TRIP RATINGS AND FUSE SIZES FOR MECHANICAL EQUIPMENT FEEDERS AS SHOWN ON THE DRAWINGS ARE BASED ON PRELIMINARY DESIGN INFORMATION. CONTRACTOR SHALL VERIFY THE PROPER SIZING AND RATINGS FROM THE FURNISHED EQUIPMENT WRITTEN DATA OR EQUIPMENT NAMEPLATES PRIOR TO ROUGH IN. IMMEDIATELY ADVISE THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.	13. ALL LIGHT FIXTURES INCLUDING LAMPS AND BALLASTS THAT ARE SUBJECT TO BE DEMOLISHED SHALL BE DISCONNECTED, REMOVED AND PROPERLY DISPOSED. FOLLOW STATE CODES AND REGULATIONS.
14. PROVIDE EQUIPMENT DISCONNECT SWITCHES IN STRICT COMPLIANCE WITH CODE REQUIREMENTS, NOT ALL LOCAL DISCONNECT SWITCHES ARE SHOWN--ALL OUTLET BOXES SHALL BE PROVIDED WITH PROPER COVER PLATES.	
15. THE CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND FUNCTIONING ELECTRICAL SYSTEM.	SPECIAL NOTES
16. ALL MATERIALS AND EQUIPMENT SHALL BE ERECTED, INSTALLED, CONNECTED, CLEANED, ADJUSTED, TESTED, CONDITIONED, AND PLACED IN SERVICE IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS AND RECOMMENDATIONS. CONDUIT RUNS OR PULL BOXES SHALL NOT BLOCK OR PREVENT FULL COMPLETE ACCESS AND/OR OPERATION OF HVAC EQUIPMENT, ACCESS DOORS, PIPING VAULTS, JUNCTION BOXES MAIN RETURN AIR DUCTS, PULL BOXES, CLEANOUTS, ETC.	1. SEAL ALL NEW WALL AND FLOOR CONDUIT PENETRATIONS.
17. VERIFY CLEARANCES FOR ALL NEW ELECTRICAL WORK BEFORE PROCEEDING WITH CONSTRUCTION. COORDINATE USAGE OF AVAILABLE SPACE WITH ALL TRADES. IN THE EVENT OF CONFLICTS, NOTIFY THE ARCHITECT OR ENGINEER BEFORE PROCEEDING WITH THE WORK.	2. FOR 15A OR 20A BRANCH CIRCUITS, PROVIDE WIRE SIZE AS SHOWN BELOW BASED ON LENGTH OF CIRCUIT: UP TO 50 FT USE #12 OVER 50 FT TO 135 FT USE #10 OVER 135 FT USE #8
18. SHUT-DOWN OF SYSTEMS: IT IS MANDATORY THAT THE EXISTING BUILDING REMAIN IN CONTINUOUS AND NON-INTERRUPTED OPERATION DURING REMODELING/ALTERING SERVICES TO EXISTING BUILDING SHALL BE KEPT ON CONTINUOUS OPERATION INCLUDING POWER, LIGHTING, TELEPHONE, FIRE ALARM, ETC. ANY ABSOLUTELY NECESSARY INTERRUPTION OF THESE SERVICES TO ACCOMPLISH PROJECT CONSTRUCTION SHALL BE HELD TO A MINIMUM AND ARRANGED WITH THE OWNER THROUGH THE GENERAL CONTRACTOR TWO (2) WEEKS IN ADVANCE. TEMPORARY SERVICES SHALL BE FURNISHED AND INSTALLED WHERE NECESSARY TO ACCOMPLISH THIS PURPOSE. TEMPORARIES SHALL BE REMOVED ONLY AFTER NEW PERMANENT SERVICES ARE INSTALLED AND FULLY OPERATIONAL.	3. CIRCUITS ARE SIZED ASSUMING THAT NO MORE THAN THREE CURRENT CARRYING CONDUCTORS ARE IN A SINGLE CONDUIT. FOR CONDUITS CONTAINING MORE THAN THREE, PROVIDE APPROPRIATE DERATING OF CONDUCTORS PER CODE.
19. THE CONTRACTOR SHALL TRACE CIRCUITING FOR ALL EXISTING PANELS AFFECTED BY NEW WORK AND CREATE REVISED TYPED PANEL DIRECTORIES INDICATING EXISTING AND NEW CIRCUITS TO AS-BUILT CONDITIONS UPON COMPLETION OF ALL ELECTRICAL WORK. PANEL DIRECTORIES TO BE PROVIDED IN NEATLY TYPED FORMAT AND AFFIXED TO THE LOCATION PROVIDED WITHIN THE PANELBOARD.	4. NO WIRING SHALL BE INSTALLED PRIOR TO THE CONTRACTORS REVIEW OF THE PROJECT EQUIPMENT SHOP DRAWINGS AND COORDINATION WITH THE DESIGN DOCUMENTS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ARCHITECT/ENGINEER'S ATTENTION FOR FINAL RESOLUTION. WORK THAT HAS TO BE REPLACED DUE TO LACK OF PROPER SHOP DRAWINGS COORDINATION SHALL BE DONE AT CONTRACTORS EXPENSE.
	GENERAL COORDINATION NOTE
	1. PRIOR TO WORK THE CONTRACTOR SHALL PREPARE COORDINATION DRAWINGS WITH PROPOSED ELECTRICAL COMPONENTS AND THE WORK OF OTHER TRADES. DRAWN TO SCALE, ON ARCHITECTURAL PLAN BACKGROUNDS. THESE DRAWINGS SHALL SHOW THE FULLY COORDINATED LAYOUT OF ALL TRADES INCLUDING, BUT NOT LIMITED TO STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, AND CEILING COMPONENTS. THEY SHALL INDICATE THE VERTICAL ELEVATION OF CRITICAL COMPONENTS INCLUDING, BUT NOT LIMITED TO CEILING, BOTTOM AND TOP OF DUCTWORK, BOTTOM OF STEEL, AND SIMILAR INFORMATION. DRAWINGS SHALL ALSO CLEARLY SHOW REQUIRED CLEARANCES AND ACCESS POINTS ON VARIOUS EQUIPMENT, VALVES, ETC. REQUIRING ACCESS. THE CONTRACTOR SHALL CONSTRUCT VERTICAL SECTIONS, DRAWN TO SCALE, AT CRITICAL AREAS TO COORDINATE AND ENSURE FIT OF ALL COMPONENTS AND THAT SUFFICIENT ACCESS TO ELEMENTS REQUIRING ACCESS AND MAINTENANCE ARE ACCOMMODATED. ALL FINAL COORDINATION SHALL BE DONE BY CONTRACTOR PRIOR TO SUBMISSION OF MECHANICAL, ELECTRICAL, PLUMBING AND FIRE SUPPRESSION SHOP DRAWINGS TO AOR AND SHALL BE REFLECTED ON SAID DRAWINGS.

MECHANICAL/PLUMBING EQUIPMENT SCHEDULE											
TAG	DESCRIPTION	LOCATION	LOAD			FEED FROM		OCP		CONDUIT & WIRE SIZE	SEE NOTES
			VOLT	PHASE	HP	KW	AMPS	PANEL	CCT	SIZE POLE	
CP-1	CONDENSATE PUMP	1869 BLDG COL. T110	120	1	1/3	-	-	POWER PANEL PE (EXIST)	41 (NEW)	20A (NEW)	1
EUH-1	ELECTRIC UNIT HEATER	CARPENTER SHOP	208	1	-	3.0	-	MAN PANEL (EXIST)	27-31 (NEW)	20A (NEW)	2
WH-1	ELECTRIC WATER HEATER (DUAL ELEMENT)	CARPENTER SHOP	208	1	-	4.5	-	MAN PANEL (EXIST)	15-12 (EXIST)	30A (EXIST)	2

FWR = FULL VOLTAGE NON-REVERSING WITH HOA SWITCH (BY DIV. 23)
PU = PACKAGE UNIT (BY RESPECTIVE DIV. 22 OR 23)
VFD = VARIABLE FREQUENCY DRIVE (BY DIV. 23)
TO = THERMAL OVERLOAD (BY DIV. 23)

NOTE 1 PROVIDE DISCONNECT SWITCH & FINAL CONNECTIONS TO UNIT.
NOTE 2 DISCONNECT INTEGRAL TO UNIT. PROVIDE SINGLE CONNECTION TO UNIT.
NOTE 3 COORDINATE EQUIPMENT REQUIREMENTS WITH MANUFACTURER AND VENDOR SHOP DRAWINGS BEFORE PURCHASING.

GENERAL NOTES:

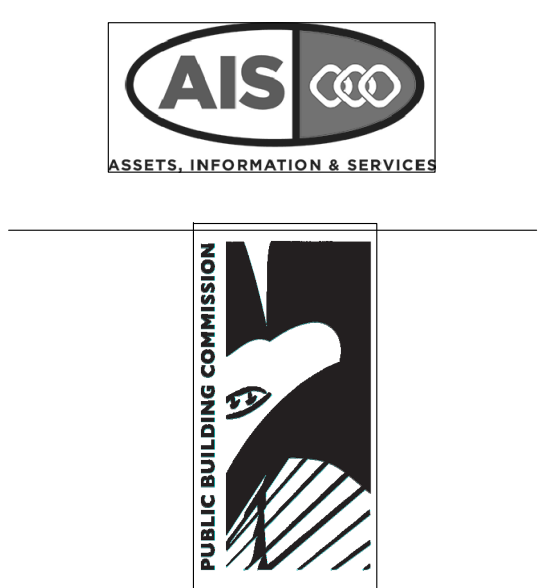
- ALL CONDUIT AND WIRING FOR TEMPERATURE CONTROL AND EQUIPMENT INTERLOCK SHALL BY TRADE FURNISHING RESPECTIVE EQUIPMENT.
- ELECTRIC HEATERS - FURNISHED BY MECHANICAL. INSTALLED BY ELECTRICAL CONTRACTOR. SAFETY DISCONNECT SWITCH SHALL BE INTEGRAL PART OF UNIT HEATER.
- IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR (E) TO COORDINATE AND REVIEW THE ELECTRICAL CHARACTERISTICS, IMPACTS AND OTHER REQUIREMENTS OF COMPONENTS BEFORE INSTALLATION OF WORK. ALL OTHER CONTRACTORS SHALL ADVISE E/C OF ANY MOTOR/DEVICE CHANGES.
- SEE SPECIFICATIONS AND DRAWINGS FOR TYPES AND LOCATIONS OF DEVICES.

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PBC Contract No: #04028

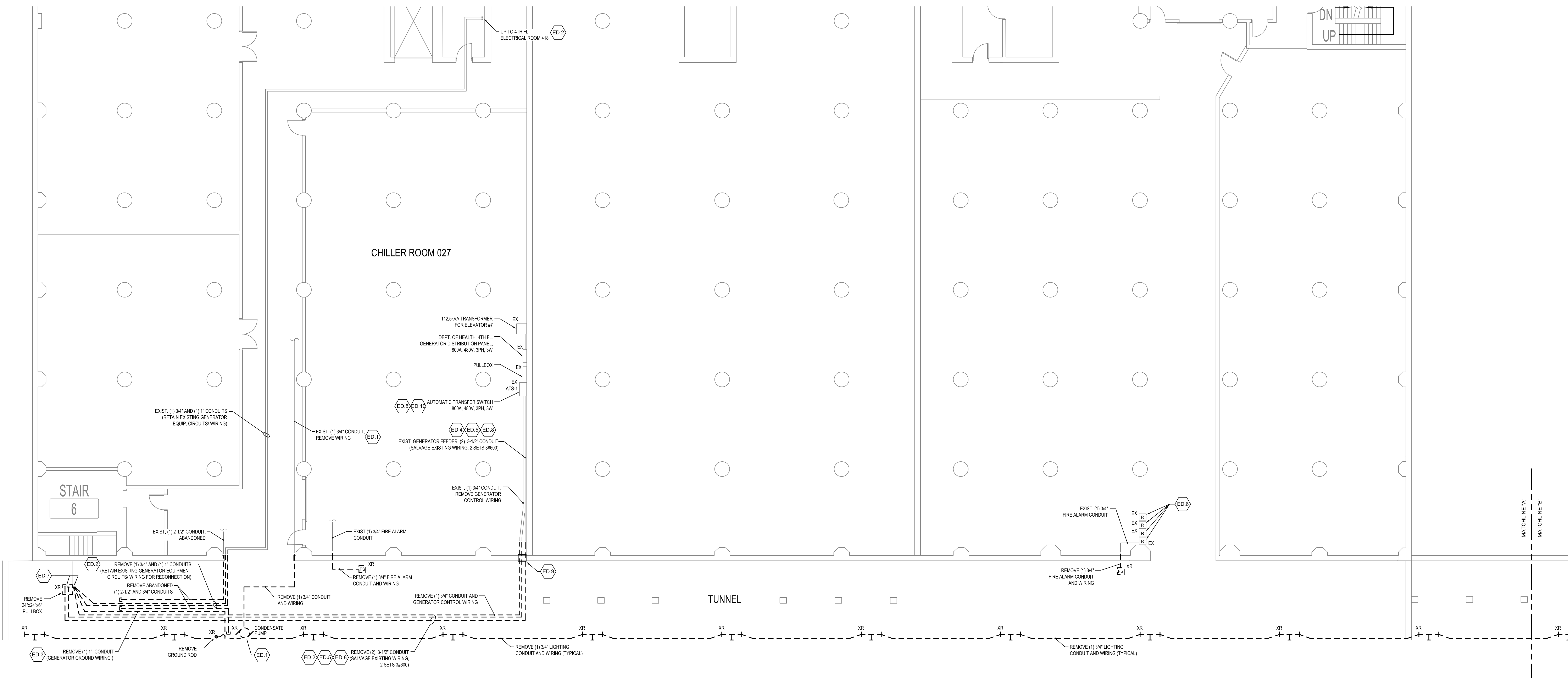
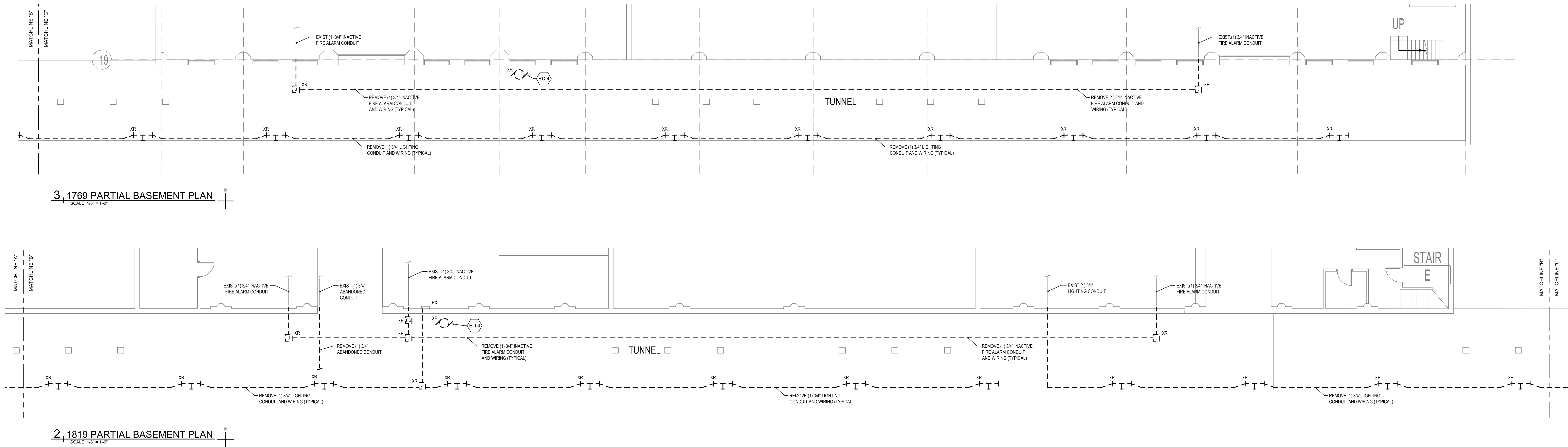
Project No: #04028

Title

ELECTRICAL NOTES, SYMBOLS AND ABBREVIATIONS

Sheet

E-001



ELECTRICAL KEYED DEMO NOTES:

- ED.1 CONDENSATE PUMP. DISCONNECT AND REMOVE EXISTING FEEDER WITHIN TUNNEL. REMOVE WIRING BACK TO NEAREST JBOX WITHIN BUILDING AND LABEL CIRCUIT BREAKER AS SPARE. EXISTING CIRCUITING TO BE FIELD VERIFIED.
- ED.2 GENERATOR EQUIPMENT POWER FEEDS FROM PANEL 3W-GEN-4 PANEL LOCATED IN 4TH FL ELECTRICAL ROOM 418. DISCONNECT AND REMOVE EXISTING FEEDERS WITHIN TUNNEL. RETAIN EXISTING CIRCUITS FOR RECONNECTION TO EXISTING EQUIPMENT. EXISTING CIRCUITING TO BE FIELD VERIFIED.
- ED.3 REMOVE EXISTING GENERATOR GROUND WIRING AND CONDUIT. RETAIN EXISTING GROUND WIRE FOR RECONNECTION TO NEW GROUND ROD AT NEW LOCATION.
- ED.4 PULL BACK GENERATOR FEEDER WIRING INTO CHILLER ROOM 027 AND PROTECT DURING CONSTRUCTION. COORDINATE STORAGE LOCATION WITH OWNER.
- ED.5 REMOVE EXISTING GENERATOR FEEDER WIRING (2 SETS 3#600, 1750LF EA.) FROM GENERATOR TO AUTOMATIC TRANSFER SWITCH. WIRE SIZE IS BASED ON REQUIRED SIZING FOR 800A, 480V, 3PH, 3W GENERATOR DISTRIBUTION PANEL. EXISTING FEEDER WIRING TO BE FIELD VERIFIED AND DOCUMENTED. RETURN WIRING TO OWNER.
- ED.6 DISCONNECT FIRE ALARM RELAYS SERVING SPRINKLER SYSTEM. REPROGRAM EXISTING FIRE ALARM SYSTEM AND UPDATE FIRE ALARM ANNUNCIATOR PANEL LOCATED IN ENTRY VESTIBULE 100.
- ED.7 EXISTING CORE PENETRATIONS THRU TUNNEL CEILING AND CONCRETE GENERATOR PAD ABOVE SHALL REMAIN INTACT FOR INSTALLATION OF NEW RGS CONDUIT FEEDS.
- ED.8 COORDINATE AND SCHEDULE SHUT DOWN OF EMERGENCY POWER SYSTEM WITH BUILDING ENGINEER AND DEPT. OF HEALTH LOCATED ON THE 4TH FLOOR.
- ED.9 EXISTING CONDUIT PENETRATIONS FOR THE (2) 3-1/2" AND (1) 3" CONDUIT SHALL BE PATCHED AND SEALED WATER TIGHT TO MATCH EXISTING CONSTRUCTION AND FIRE RATING.
- ED.10 TEMPORARY EMERGENCY POWER SOURCE TO MATCH EXISTING (350KW/480V DIESEL GENERATOR) SHALL BE PROVIDED TO MAINTAIN EXISTING DEPT. OF HEALTH AND ELEVATOR #7 EMERGENCY POWER DURING CONSTRUCTION. WIRING FOR TEMP POWER TO BE TERMINATED ON ATS-1 EMERGENCY SIDE TERMINALS.

- ELECTRICAL LEGEND:
- XR - EXISTING EQUIPMENT (DEVICE) TO BE REMOVED.
- EX - EXISTING EQUIPMENT (DEVICE) TO REMAIN.
- EXISTING DEVICE OR EQUIPMENT TO REMAIN
- - - EXISTING DEVICE OR EQUIPMENT TO BE REMOVED

Environmental Notes

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LEAD-BASED PAINT MAY BE PRESENT WITHIN THE BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE APPROPRIATE SAFETY MEASURES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL RULES AND REGULATIONS INCLUDING OSHA (1926.20) COMPLIANCE, WASTE CHARACTERIZATION AND WASTE DISPOSAL. ALL WORK WITH SURFACES CONTAINING LEAD-BASED PAINT SHALL BE DONE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

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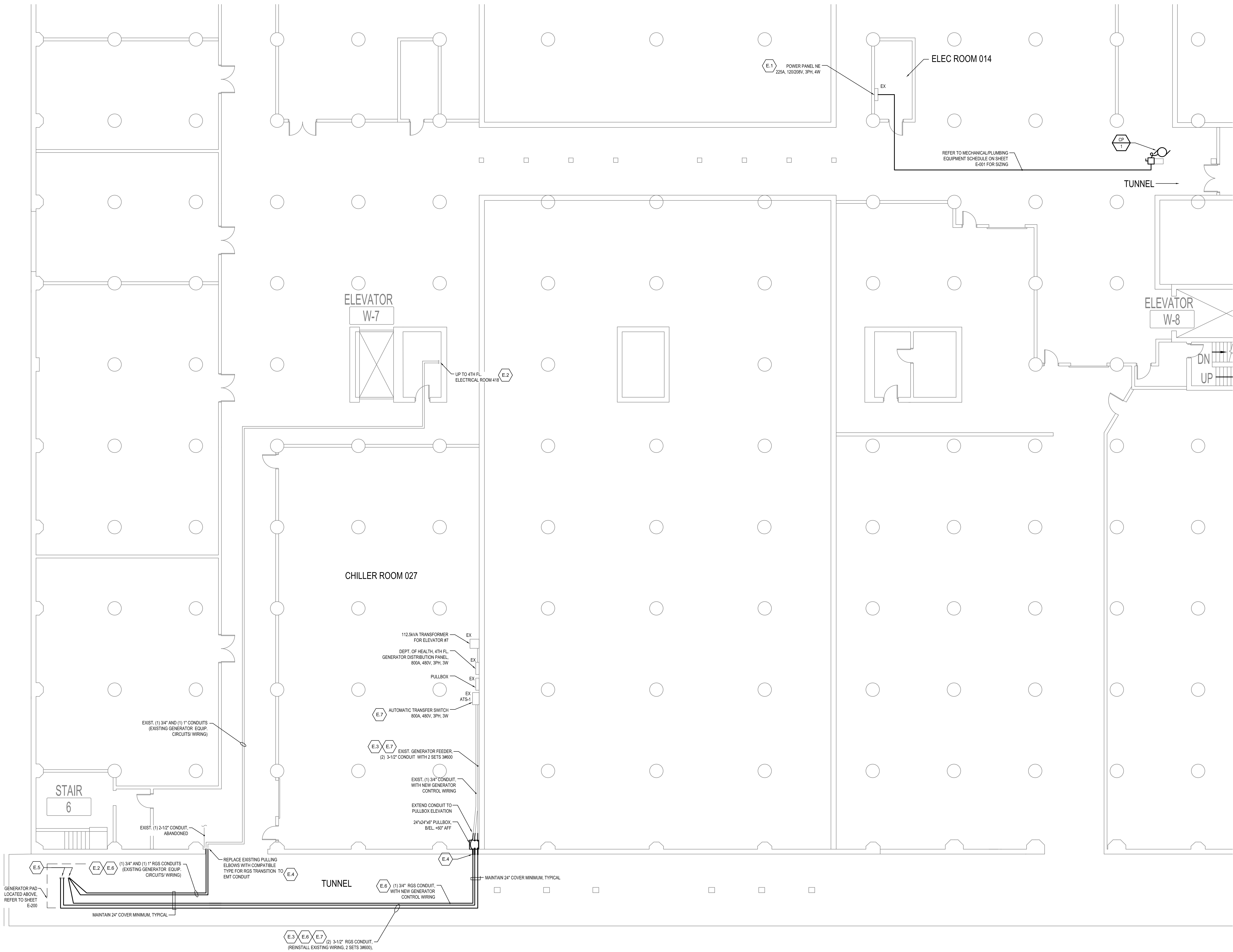
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01	ISSUE FOR PREBID	10/14/21
02	ISSUE FOR 100% CD Rev	11/09/21

PBC Project Name: 1769, 1819, 1869 Pershing Tunnel Renovation
PBC Contract No: #04028
Project No: #04028
Title

BASEMENT
ELECTRICAL DEMO
PLANS

Sheet
ED-100



1 1869 PARTIAL BASEMENT PLAN
SCALE: 1/8\"/>

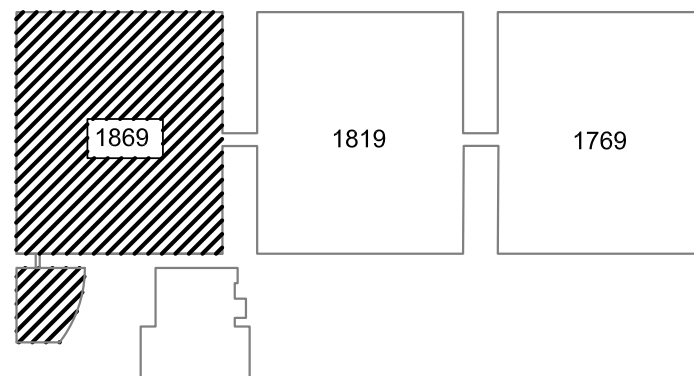
ELECTRICAL KEYED NOTES:

- E.1 POWER PANEL NE. PROVIDE (1) 20A-1P CIRCUIT BREAKER RATED FOR USE IN AVAILABLE SPACE (E1). FIELD VERIFY AVAILABLE SPACE.
- E.2 GENERATOR EQUIPMENT POWER FEEDS FROM PANEL SW-GEN-P PANEL LOCATED IN 4TH FL ELECTRICAL ROOM 418. EXTEND AND RECONNECT EXISTING CIRCUITS.
- E.3 PROVIDE NEW GENERATOR FEEDER WIRING (2 SETS, 3R000XHHW, TYPE EA) FROM GENERATOR TO AUTOMATIC TRANSFER SWITCH. PULL WIRING THRU NEW RGS CONDUIT BEFORE TUNNEL BACKFILL MATERIAL. WIRE SIZE IS BASED ON REQUIRED SIZING FOR 800A, 480V, 3PH, 3W GENERATOR DISTRIBUTION PANEL. EXISTING FEEDER WIRING TO BE FIELD VERIFIED AND DOCUMENTED.
- E.4 NEW CORE PENETRATIONS BELOW PREVIOUS ELEVATION TO ACCOMMODATE MINIMUM COVER REQUIREMENT. PROVIDE SLEEVE SEALS AS REQUIRED. MAINTAIN EXISTING FIRE RATING OF THE WALL. COORDINATE WORK WITH STRUCTURAL AND/OR ARCHITECTURAL.

- E.5 UTILIZE EXISTING CORE PENETRATIONS THRU TUNNEL CEILING AND CONCRETE GENERATOR PAD ABOVE FOR INSTALLATION OF NEW RGS CONDUIT FEEDS. REFER TO SHEET E-200 FOR APPROXIMATE GENERATOR LOCATION.
- E.6 LARGE RADIUS ELBOWS SHALL BE USED FOR ALL RGS CONDUIT 90DEGREE BENDS.
- E.7 TEMPORARY EMERGENCY POWER SOURCE TO MATCH EXISTING (350KW/480V DIESEL GENERATOR) SHALL BE PROVIDED TO MAINTAIN EXISTING DEPT. OF HEALTH AND ELEVATOR #7 EMERGENCY POWER DURING CONSTRUCTION. WIRING FOR TEMP POWER TO BE TERMINATED ON ATS-1 EMERGENCY SIDE TERMINALS.

ELECTRICAL LEGEND:

- EX - EXISTING EQUIPMENT (DEVICE) TO REMAIN.
- EXISTING DEVICE OR EQUIPMENT TO REMAIN
- NEW DEVICE OR EQUIPMENT



Environmental Notes

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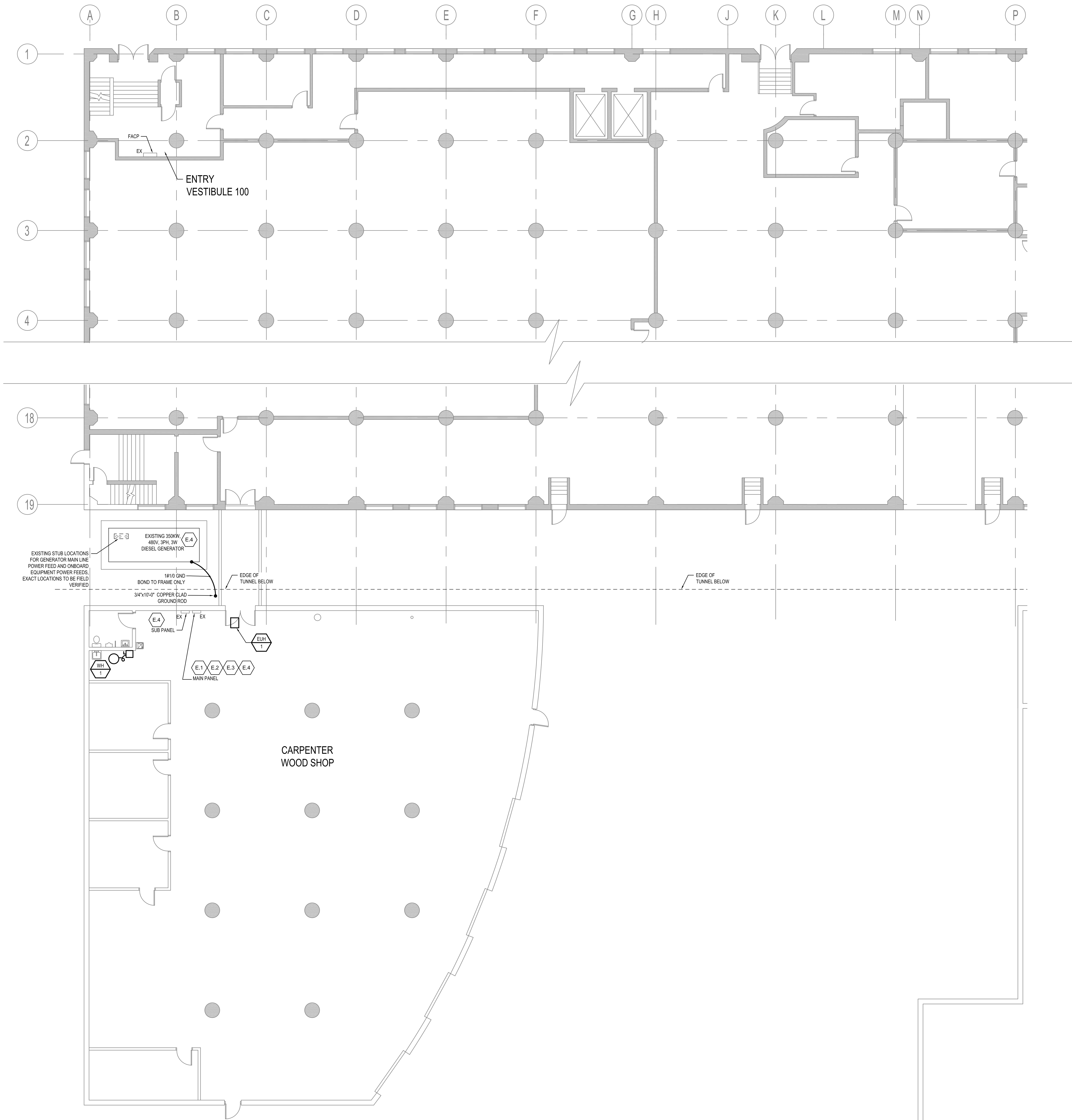
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Pershing Tunnel Renovation
PBC Contract No:
Project No: #04028
Title

**BASEMENT
ELECTRICAL NEW
WORK PLANS**

Sheet
E-100



1, 1869 PARTIAL GROUND FLOOR PLAN
SCALE: 1/8" = 1'-0"

ELECTRICAL KEYED NOTES:

- E.1 REPLACE EXISTING 3-POLE CIRCUIT BREAKER (25-27-29) WITH (1) 2-POLE HACR CIRCUIT BREAKER AT 27-29 TO SERVE NEW ELECTRIC UNIT HEATER EUH-1, PROVIDE SPARE (1) 20A 1P CIRCUIT BREAKER AT 25. CIRCUIT AVAILABILITY TO BE FIELD VERIFIED. 3-POLE CIRCUIT (25-27-29) IS PRESENTLY IN "OFF" POSITION.
- E.2 USE EXISTING 2-POLE CIRCUIT BREAKER (10-12) TO SERVE NEW ELECTRIC WATER HEATER WH-1. CIRCUIT AVAILABILITY TO BE FIELD VERIFIED. 2-POLE CIRCUIT (10-12) IS LABELED AS SERVING ABANDONED STEAM HEAT EQUIPMENT.
- E.3 DUE TO LIMITED INFORMATION AVAILABLE FROM RECORD DRAWINGS AND PANEL LABELLING, PANEL CAPACITY, AMPERAGE RATING, AND EXISTING LOAD IS TO BE FIELD VERIFIED. EXISTING LOAD ON PANEL(S) AND INCLUDE UPDATED LOADS ON AS-BUILT DRAWINGS. THE TOTAL CONNECTED LOAD SHALL NOT EXCEED 80% OF PANEL RATING PER CEC.
- E.4 TEMPORARY EMERGENCY POWER SOURCE TO MATCH EXISTING (350KW/480V DIESEL GENERATOR) SHALL BE PROVIDED TO MAINTAIN EXISTING DEPT. OF HEALTH AND ELEVATOR #7 EMERGENCY POWER DURING CONSTRUCTION. WIRING FOR TEMP POWER TO BE TERMINATED ON ATS-1 EMERGENCY SIDE TERMINALS. REFER TO SHEET E-100 FOR ATS-1 LOCATION.
- E.5 THE CONTRACTOR SHALL TRACE CIRCUITING FOR EXISTING PANELS AND CREATE REVISED TYPED PANEL DIRECTORIES INDICATING EXISTING AND NEW CIRCUITS TO AS-BUILT CONDITIONS UPON COMPLETION OF ALL ELECTRICAL WORK. PANEL DIRECTORIES TO BE PROVIDED IN NEATLY TYPED FORMAT AND AFFIXED TO THE LOCATION PROVIDED WITHIN THE PANELBOARD.

ELECTRICAL LEGEND:

- EX - EXISTING EQUIPMENT (DEVICE) TO REMAIN
- EXISTING DEVICE OR EQUIPMENT TO REMAIN
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**GROUND FLOOR
ELECTRICAL NEW
WORK PLANS**

Sheet
E-200

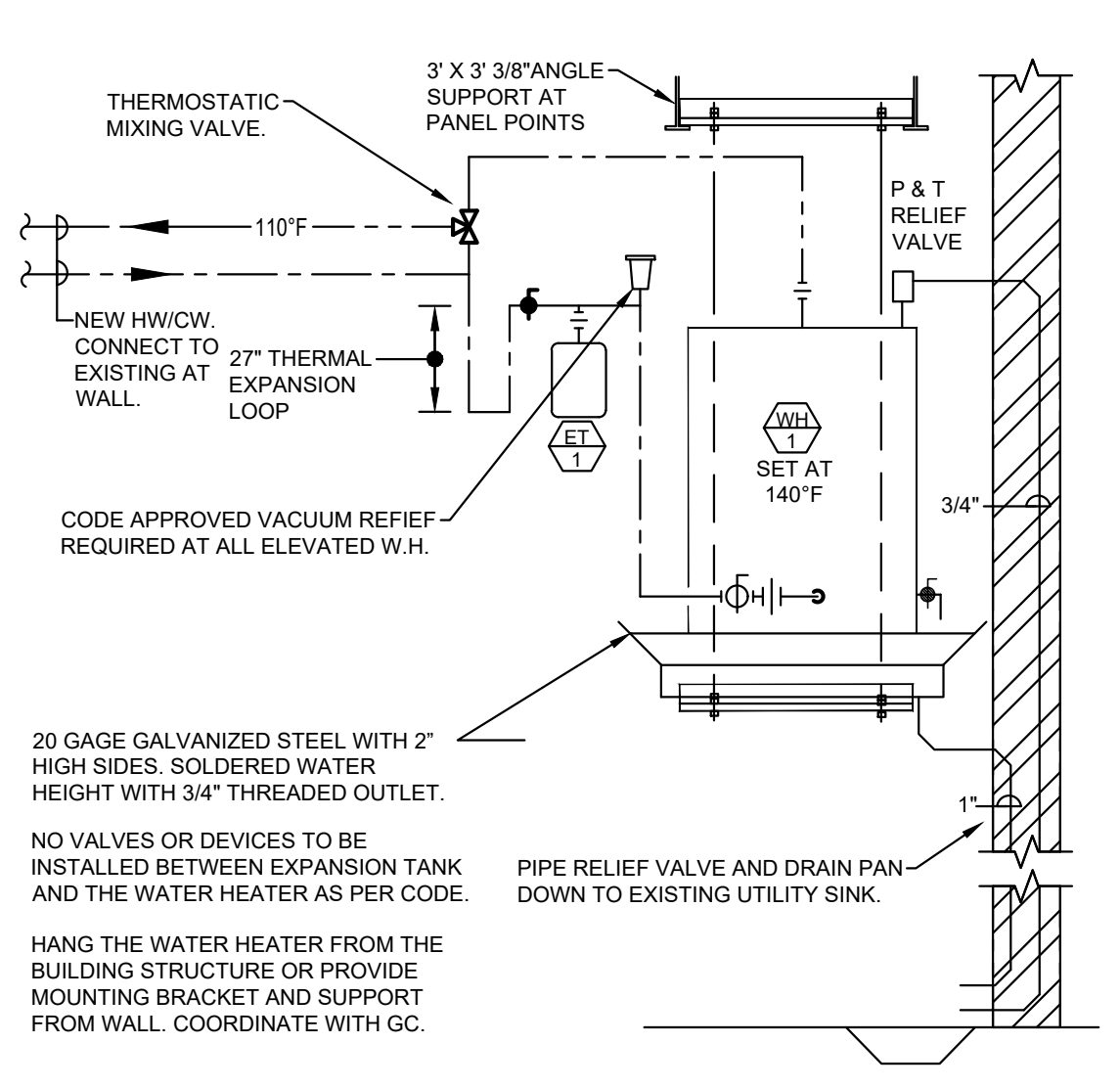
ALL THE FOLLOWING NOTES APPLIES TO ALL PLUMBING DRAWINGS.

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5. EACH TRADE CONTRACTOR SHALL VISIT CONSTRUCTION SITE PRIOR TO BIDDING, EXAMINE SCOPE AND CONDITIONS OF OTHER CONTRACT WORK, EXAMINE EXISTING CONDITIONS APPLICABLE TO INTERFERENCES AND REQUIRED COORDINATION IN ORDER TO AVOID EFFECT OF SAID CONDITIONS ON THEIR BID. DRAWINGS ARE DIAGRAMMATIC AND DO NOT INDICATE ALL REQUIRED RELOCATIONS, OFFSETS, OR ADJUSTMENTS. ROUTING CHANGES REQUIRED TO INTEGRATE WORK WITH ALL OTHER CONDITIONS OR TRADES, WORK INSTALLED BEFORE COORDINATING TO GO TO CAUSE INTERFERENCE WITH OTHER TRADES SHALL BE REMOVED AND REWORKED WITHOUT COST TO OWNERS. IF THE WORK IS NOT REMOVED AND REWORKED, CHANGES, REROUTING, ETC. SHALL BE INCLUDED IN BID. COORDINATING SCALED 1/4"=1' COORDINATED DRAWINGS SHALL BE PREPARED BY EACH TRADE TO FACILITATE AND VERIFY FIT AND CONSEQUENCE OF THEIR INSTALLATION WITH OTHER TRADES.
6. THIS CONTRACTOR SHALL FURNISH, INSTALL AND CONNECT ALL EQUIPMENT IN ACCORDANCE WITH THE CITY OF CHICAGO CODE. AFTER EACH WORK DAY, CONTRACTOR SHALL CLEAN ALL WORK AREAS AND REMOVE ALL DEBRIS.
7. THIS CONTRACTOR SHALL PAY ALL PERMIT FEES, PLAN REVIEW FEES, LICENSE FEES, INSPECTIONS FEE/TESTS CHARGES APPLICABLE TO THEIR DIVISION AND SHALL BE INCLUDED IN THE BASE BID AS PART OF THEIR CONTRACT.
8. CONTRACTOR SHALL SUBMIT SCALED, LAYOUT DRAWINGS (LIMITED TO PIPE SIZES, LOCATIONS, ELEVATIONS AND SLOPES OF HORIZONTAL RUNS, WALL AND FLOOR PENETRATIONS AND CONNECTIONS. IN ADDITION TO THE DRAWINGS SHALL INCLUDE THE FOLLOWING: FIELD AND SPATIAL RELATIONSHIPS BETWEEN PIPING AND APPROXIMATE EQUIPMENT LOCATIONS.
9. THIS CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIAL FOR ONE YEAR AFTER COMPLETION AGAINST ALL DEFECTS OF MATERIAL, EQUIPMENT AND WORKMANSHIP.
10. THIS CONTRACTOR SHALL PROVIDE ALL MINOR ITEMS WHICH ARE OBVIOUSLY REQUIRED TO COMPLETE NECESSARY WORK AS PART OF INSTALLATION AND USUALLY INCLUDED IN SIMILAR WORK EVEN THOUGH NOT NECESSARILY MENTIONED IN THE CONTRACT DOCUMENTS. SUCH ITEMS INCLUDE NUTS AND BOLTS, ANCHORS, HANGERS, BRACKET SLEEVES, MINOR OFFSETS IN PIPING BECAUSE OF UNFORESEEN CONDITIONS.
11. CONTRACTOR SHALL PROVIDE A WRITTEN "REQUEST FOR INFORMATION" TO THE ARCHITECT AND/OR ENGINEER TO ALLOW FOR CLARIFICATION ANY INCONSISTENCIES THAT MAY APPEAR ON THE CONTRACT DOCUMENTS OR SPECIFICATIONS.
12. PLANS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CHICAGO CODE REQUIREMENTS.
13. PLUMBING CONTRACTOR SHALL CONFER AND COORDINATE CLEARANCES, CHASES, RECESSES AND OPENINGS WITH OTHER TRADES FOR THIS WORK.
14. DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO SHOW APPROXIMATE LOCATIONS, UNLESS SPECIFICALLY DIMENSIONED. COORDINATE THE WORK WITH ALL TRADES TO AVOID INTERFERENCE. PLUMBING WORK THAT IS INSTALLED WHICH INTERFERES WITH THE ELECTRICAL OR OTHER TRADES OR DEVIATES FROM THE SPACE PROVIDED BY THE ARCHITECT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. SHALL BE CHANGED AT NO ADDITIONAL COST TO THE OWNER.
15. PROVIDE BACK FLOW PREVENTERS AND TEST IN ALL LOCATIONS REQUIRED BY CODE.
16. PROVIDE MAXIMUM HEADROOM IN ALL PIPED LOCATIONS.
17. PROVIDE ISOLATION VALVES FOR COLD, HOT, AND HOT WATER RETURN SYSTEMS AT EACH FIXTURE, FUTURE GROUP, AND SYSTEM COMPONENTS TO ALLOW FOR PROPER MAINTENANCE.
18. INSTALL EQUIPMENT PER MANUFACTURERS INSTRUCTIONS AND ALL APPLICABLE CODES. PROVIDE PANS AND DRAIN LINES.
19. INSULATE ALL PIPES RATED TO OUTSIDE WALLS SUBJECT TO FREEZING.
20. PROVIDE ALL PROPER BUILDING PENETRATIONS TO MEET ALL MANUFACTURERS' INSTRUCTIONS AND ALL APPLICABLE CODES.
21. INSULATE ALL HOT, COLD AND RETURN WATER LINES.
22. PROVIDE EXPANSION JOINTS AS REQUIRED BY CODE ON HOT WATER SYSTEMS.
23. DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO AVOID GALVANIC ACTION. D-ELECTRIC UNIONS ARE TO BE USED AT ALL SUCH CONNECTIONS.
24. INSTALL ALL PIPING TO AVOID INTERFERENCE WITH ELECTRICAL AND MECHANICAL EQUIPMENT AND STRUCTURAL FRAMING. GAS AND DRAIN LINES ARE NOT PERMITTED OVER OR UNDER ELECTRICAL PANELS OR DEDICATED ELECTRICAL SPACES."
25. THE CONTRACTOR SHALL PROVIDE AND INSTALL FAUCETS, TRAPS, STOPS, GATE VALVES, WATER HAMMER ARRESTERS AND CLEANOUT COVERS, FURNISH AND INSTALL ALL NECESSARY TRIM FOR A COMPLETE CONNECTED PLUMBING SYSTEM READY FOR OPERATION.
26. ALL PENETRATIONS THROUGH FIRE-RATED WALLS AND FLOORS SHALL BE MADE FIRE SAFE IN COMPLIANCE WITH THE CITY OF CHICAGO BUILDING CODE. RATING SHALL MEET OR EXCEED RATING OF WALL OR FLOOR. ALL HOLES THROUGH FLOORS SHALL BE CAULKED AND SEALED AIR AND WATER TIGHT TO RESTRICT THE PASSAGE OF SMOKE, SOUND OR FLAMES.
27. ASSUME GENERAL SITE TRAFFIC PLAN AND SEQUENCING OF WORK INCLUDING ROAD AND UTILITY SHUTDOWNS. IN THE EVENT OF A PROPOSAL, ADDITIONALLY, CONTRACTOR SHOULD BE REQUIRED TO MAINTAIN THIS LIST DURING THE COURSE OF THE PROJECT. ADDITIONALLY, THE CONTRACTOR SHALL PROVIDE PROPOSED PLANS FOR UTILITY AND/OR ROAD CLOSURES TWO WEEKS (14 DAYS) AHEAD OF THE PLANNED START DATE/TIME FOR THAT ACTIVITIES. ALL SITE AND UTILITY IMPACTS IDENTIFIED THE PLAN SHALL BE REVIEWED WITH OWNER TO CONFIRM IMPACTS SO THIS INFORMATION CAN BE REVIEWED AND COMMUNICATED WITH OTHER SITE DESIGNERS. OPERATIONAL IMPACTS ADDITIONALLY, ONCE MATERIALS ARE IN HAND AND PLANS FOR SHUTDOWNS ARE APPROVED BY PREC OF CHICAGO, THE CONTRACT SHALL PROVIDE A 48 HOUR ADVANCE CONFIRMATION WITH PROPOSED START A AND FINISH TIMES AS A REMINDER TO OWNER, AND FOR FINAL APPROVAL FOR PLANNED SHUTDOWNS.
28. ALL SANITARY, STORM AND VENT LINES SHALL BE FITTED AS FOLLOWS:
3" AND SMALLER - 1/4" PER 1'-0"
4" AND LARGER - 1/8" PER 1'-0"
29. PLUMBING CONTRACTOR IS RESPONSIBLE FOR INSTALLING BALANCING VALVES IN LOCATIONS WHERE THEY CAN EASILY BE ADJUSTED. CONTRACTOR IS RESPONSIBLE FOR SETTING BALANCING VALVES FROM FIELD CALCULATED SET POINTS AND BALANCING THE LAMINAR HOT WATER RETURN SYSTEM.
30. CATFISHING AND MANHOLES ARE THE RESPONSIBILITY OF THE SITE CONTRACTOR.
31. FINISHED PIPING SHALL BE TESTED PER CHICAGO PLUMBING CODE 18-29-606.6 AND FLUSHED AND CHLORINATED PER CODE 18-29-610.1.
32. PRIOR TO FINAL ACCEPTANCE BY OWNER, CONTRACTOR SHALL LEAVE ALL FIXTURES AND REMOVE ALL LABELS. CONTRACTOR SHALL ALSO RDO ALL FLOOR DRAINS TO CATFISHING AND REMOVE ALL DEBRIS FROM CATFISHING.
- GENERAL RENOVATION NOTES:
1. EXISTING BUILDING SERVICES, WHERE PRESENT, SHALL BE MAINTAINED AND TEMPORARY SERVICES SHALL BE PROVIDED WHEN REQUIRED IN THE EVENT THAT SHUTDOWN CANNOT BE AVOIDED. THE SERVICE INTERRUPTION SHALL BE WITH MINIMUM INCONVENIENCE TO THE OCCUPANTS AND WITH THE APPROVAL AND UNDER THE SUPERVISION OF THE ARCHITECT OR OWNER
2. UNLESS INDICATED OTHERWISE IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL HAVE AN OWNER'S REPRESENTATIVE PRESENT DURING ANY SELECTIVE DEMOLITION THAT REQUIRES MAINTAINING THE REMAINDER OF THE BUILDING OPERATIONAL. THE CONTRACTOR SHALL COORDINATE THE EXTENT OF DEMOLITION CAREFULLY WITH THE OWNER'S REPRESENTATIVE TO ENSURE PORTIONS OF THE BUILDING TO REMAIN IN OPERATION REMAIN SO.
3. REFER TO THE ARCHITECTURAL DRAWINGS, FIELD CONDITIONS AND DETAILS FOR EXACT LOCATION OF PARTITIONS. THIS CONTRACTOR SHALL REPAIR ALL DAMAGES TO EXISTING CONSTRUCTION DUE TO HIS DEMOLITION, OPERATION OR INSTALLATION OF NEW WORK.
4. CUTTING AND PATCHING FOR THEIR WORK SHALL BE PERFORMED BY EACH TRADE CONTRACTOR UNLESS NOTED OTHERWISE.
5. ANY DEMOLITION WORK, WHERE REQUIRED, SHALL INCLUDE REMOVAL OF ALL EQUIPMENT, PLUMBING FIXTURES, DUCTWORK, PIPING, CONDUIT AND ASSOCIATED OTHER EQUIPMENT AND MATERIALS BY TRADE AFFECTED. ALL MATERIAL SHALL BE REMOVED TO DUMPSTER PROVIDED BY GENERAL CONTRACTOR. UNUSED PIPING AND DUCTWORK CONCEALED IN WALLS, CEILING AND FLOORS SHALL BE CAPPED AND SEALED AT THEIR TERMINAL POINTS. ALL WORK SHALL BE PROTECTED AND SHALL HAVE ALL WRING PULLED AND THE CONDUIT CAPPED AND SEALED.
6. CONTRACTOR SHALL EXERCISE CARE TO AVOID DAMAGING EXISTING WORK. IF IT IS REQUIRED TO REMOVE OR REDEMOLISHED SPACE, DAMAGE SHALL BE REPAIRED AT CONTRACTORS EXPENSE.

23. ALL SANITARY, STORM AND VENT LINES SHALL BE PITCHED AS FOLLOWS:
3" AND SMALLER = 1/4" PER 1'-0"
4" AND LARGER = 1/8" PER 1'-0"
24. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING BALANCING VALVES IN LOCATIONS WHERE THEY CAN EASILY BE REACHED BY THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR BALANCING VALVES FROM FIELD CALCULATED SET POINTS AND BALANCING THE ENTIRE HOT WATER RETURN SYSTEM.
25. CATFISHBASINS AND MANHOLES ARE THE RESPONSIBILITY OF THE SITE CONTRACTOR.
26. FINISHED PIPING SHALL BE TESTED PER CHICAGO PLUMBING CODE 18-29-606-6.06 AND FLUSHED AND CHLORINATED PER CODE 18-29-610-6.10.
27. PRIOR TO FINAL ACCEPTANCE BY OWNER, CONTRACTOR SHALL CLEAN ALL FIXTURES AND REMOVE ALL LABELS. CONTRACTOR SHALL REMOVE ALL DEBRIS FROM CATFISHBASIN AND REMOVE ALL DEBRIS FROM CATFISHBASIN.
















1. EXISTING BUILDING SERVICES, WHERE PRESENT, SHALL BE MAINTAINED AND TEMPORARY SERVICES SHALL BE PROVIDED WHERE NECESSARY. IF THE SERVICE INTERRUPTION IS TO BE AVOIDED, THE SERVICE INTERRUPTION SHALL BE WITH MINIMUM NOTICE TO THE OWNER AND THE CONTRACTOR SHALL MAINTAIN AND/OR UNDER THE SUPERVISION OF THE ARCHITECT OR OWNER
2. UNLESS INDICATED OTHERWISE IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL HAVE AN OWNER'S REPRESENTATIVE PRESENT DURING ANY OCCUPANCY DISRUPTION THAT REQUIRES MAINTAINING THE REMAINDER OF THE BUILDING OPERATIONAL. THE CONTRACTOR SHALL DEMONSTRATE TO THE ARCHITECT DEMONSTRATE CAREFULLY WITH THE OWNER'S REPRESENTATIVE TO ENSURE PORTIONS OF THE BUILDING TO REMAIN IN OPERATION REMAIN SO.
3. REFER TO THE ARCHITECTURAL DRAWINGS, FIELD CONDITIONS AND NOTES FOR THE EXISTING LOCATION OF PARTITIONS. THE CONTRACTOR SHALL REPAIR ALL DAMAGES TO EXISTING PARTITIONS DUE TO THE DEMOLITION, OR OPERATION OR INSTALLATION OF NEW WORK.



ELECTRIC WATER HEATER SCHEDULE											
HEATER NO	LOCATION	STORAGE (GALLON)	RECOVERY (GPH)	TEMP RISE F °	VOLTS PHASE	WATER TEMP OUT °F	REMARKS	MFR.	MODEL NO.	WEIGHT	ACCESSORIES
WH 1	ABOVE UTILITY SINK	10	12	100	208/1Ø	140	180 X 28 HEIGHT, 3 KW SINGLE ELEMENT PROVIDE DRAIN PAN AND RELIEF VALVE	AS SMITH	DSE-10A	148.85	ET 1

EXPANSION TANK SCHEDULE							
TAG	LOCATION	SIZE (IN)	TANK VOLUME GALLONS	WORKING PRESSURE	TEST PRESSURE	FLUID TYPE	MANUFACTURER AND MODEL
ET 1	JAN CLOSET	8	20 BLADDER TYPE	150	125	CW	ANTROL MODEL ST-6-C

SPECIFICATION:
STEEL PRESSURE RATED TANK CONSTRUCTED
WITH WELDED JOINTS AND FACTORY INSTALLED
BUTYL RUBBER DIAPHRAGM. AIR PRECHARGE TO
MIN. SYSTEM OPERATING PRESSURE AT TANK.
NSF 61. 5-YEAR WARRANTY. CHARGE TANK
WITH AIR.

PLUMBING SYMBOLS	
UNDERGROUND	SUSPENDED
----- DOMESTIC COLD WATER	----- DOMESTIC COLD WATER
----- DOMESTIC HOT WATER	----- DOMESTIC HOT WATER
----- DOMESTIC HOT WATER RETURN	----- DOMESTIC HOT WATER RETURN
----- TEMPERED HOT WATER	----- TEMPERED HOT WATER
----- SANITARY SEWER	SANITARY SEWER
----- STORM SEWER	STORM SEWER
----- VENT	----- VENT
ABBREVIATIONS	SYMBOLS
CWS COLD WATER SERVICE	 STRAINER
HWS HOT WATER SERVICE	 CHECK VALVE
THW TEMPERED HOT WATER	 BALL VALVE
NFW NON-POSSIBLE WATER	 GATE VALVE
AP ACCESS PANEL	 PRESSURE REGULATING VALVE
BOP BOTTOM OF PIPE	 CIRCUIT SETTER
DN DOWN	 BALANCING VALVE
DS DOWNSTOW	 THERMOSTATIC MIXING VALVE
ETR EXISTING TO REMAIN	 FLOOR DRAIN
EXTG EXISTING	 ROOF DRAIN / OVERFLOW DRAIN
HP HIGHPRESSURE	 BACKFLOW PREVENTER / RPZ
MECH MECHANICAL	 HOSE BIBB / WALL HYDRANT
N/A NON APPLICABLE	 PUMP
OPN OPEN SHUT DRAIN	 DEMO TO BE REMOVED
PD PIPE DISCHARGE	 NEW CONNECTION
SAN SANITARY	
ST STORM	
TWV THERMOSTATIC MIXING VALVE	
V VENT	
UG UNDERGROUND	
WATER WATER	
VTR VENT THROUGH ROOF	
WCO WALL CLEANOUT	
YCD YARD CLEANOUT	
YCO YARD CLEANOUT	

PIPING & INSULATION APPLICATIONS									
PIPE IDENTIFICATION	PIPE	FITTINGS	JOINTS	INSULATION					
				MAT'L	THICKNESS	FIELD APPL.	JACKET		
				CELLULAR GLASS	1"/2"	1-1/2"	ALUMINUM	PVC FIBER COVERS	
INCOMING WATER SERVICE:									
UNDERGROUND WATER --- 3" & LESS	TYPE L HARD COPPER TUBING	•	•	•	•	•	•	•	•
SUSPENDED WATER --- 3" & LESS	TYPE M COPPER TUBING	•	•	•	•	•	•	•	•
UNDERGROUND SANITARY WASTE & VENT	SCH. 40 GALVANIZED STEEL PIPE	•	•	•	•	•	•	•	•
SUSPENDED SAN. W. & V. 3" & OVER	DUCTILE CAST IRON	•	•	•	•	•	•	•	•
SUSPENDED SAN. W. & V. 3" & LESS	HUB & SPOUT CAST IRON SOIL PIPE	•	•	•	•	•	•	•	•
	HUBLESS CAST IRON SOIL PIPE	•	•	•	•	•	•	•	•
	HUBLESS CAST IRON SOIL PIPE	•	•	•	•	•	•	•	•
	WROUGHT COPPER OR CAST BRONZE PRESSURE RIGIDIZED COPPER OR CAST BRONZE DRAINAGE	•	•	•	•	•	•	•	•
	WROUGHT COPPER OR CAST BRONZE PRESSURE GALVANIZED MALLEABLE IRON	•	•	•	•	•	•	•	•
	GALVANIZED MALLEABLE IRON	•	•	•	•	•	•	•	•
	DUCTILE CAST IRON	•	•	•	•	•	•	•	•
	DUCTILE CAST IRON (FAS)	•	•	•	•	•	•	•	•
	DUCTILE CAST IRON (RGS)	•	•	•	•	•	•	•	•
	HUB & SPOUT CAST IRON SOIL PIPE	•	•	•	•	•	•	•	•
	HUBLESS CAST IRON SOIL PIPE	•	•	•	•	•	•	•	•
	HUBLESS CAST IRON SOIL PIPE	•	•	•	•	•	•	•	•
	STEEL	•	•	•	•	•	•	•	•
	MECH. JOINT CORRUGATED PCT COP. 310/ASTM C1277	•	•	•	•	•	•	•	•
	CUT-SHOWN JOINTS ONLY AND NO ROLLED-CARROLL JOINTS	•	•	•	•	•	•	•	•
	COMPRESSION JOINTS PER ASTM C244	•	•	•	•	•	•	•	•
	MINERAL FIBRE (THERGESS)	•	•	•	•	•	•	•	•
	CELLULAR GLASS	•	•	•	•	•	•	•	•
	1"/2"	•	•	•	•	•	•	•	•
	1-1/2"	•	•	•	•	•	•	•	•
	ALUMINUM	•	•	•	•	•	•	•	•
	PVC FIBER COVERS	•	•	•	•	•	•	•	•

GENERAL NOTES:
 1. A CLEANOUT MUST BE INSTALLED AT OR NEAR THE BASE OF EACH WASTE STACK.
 2. PROVIDE CAST IRON SLEEVES OVER BURIED PIPE. 2" O.D. MINIMUM.
 3. COORDINATE PIPING MATERIAL WITH PROJECT SPECIFICATIONS; THE MORE STRINGENT VERSION SHALL BE ACCEPTED.
 4. PIPE MATERIALS, FITTINGS AND JOINTS MUST MEET APPLICABLE BUILDING CODE REQUIREMENTS.
 5. BURIED WATER PIPE: 5'-0" BELOW GRADE.

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TUNNEL RENOVATION**

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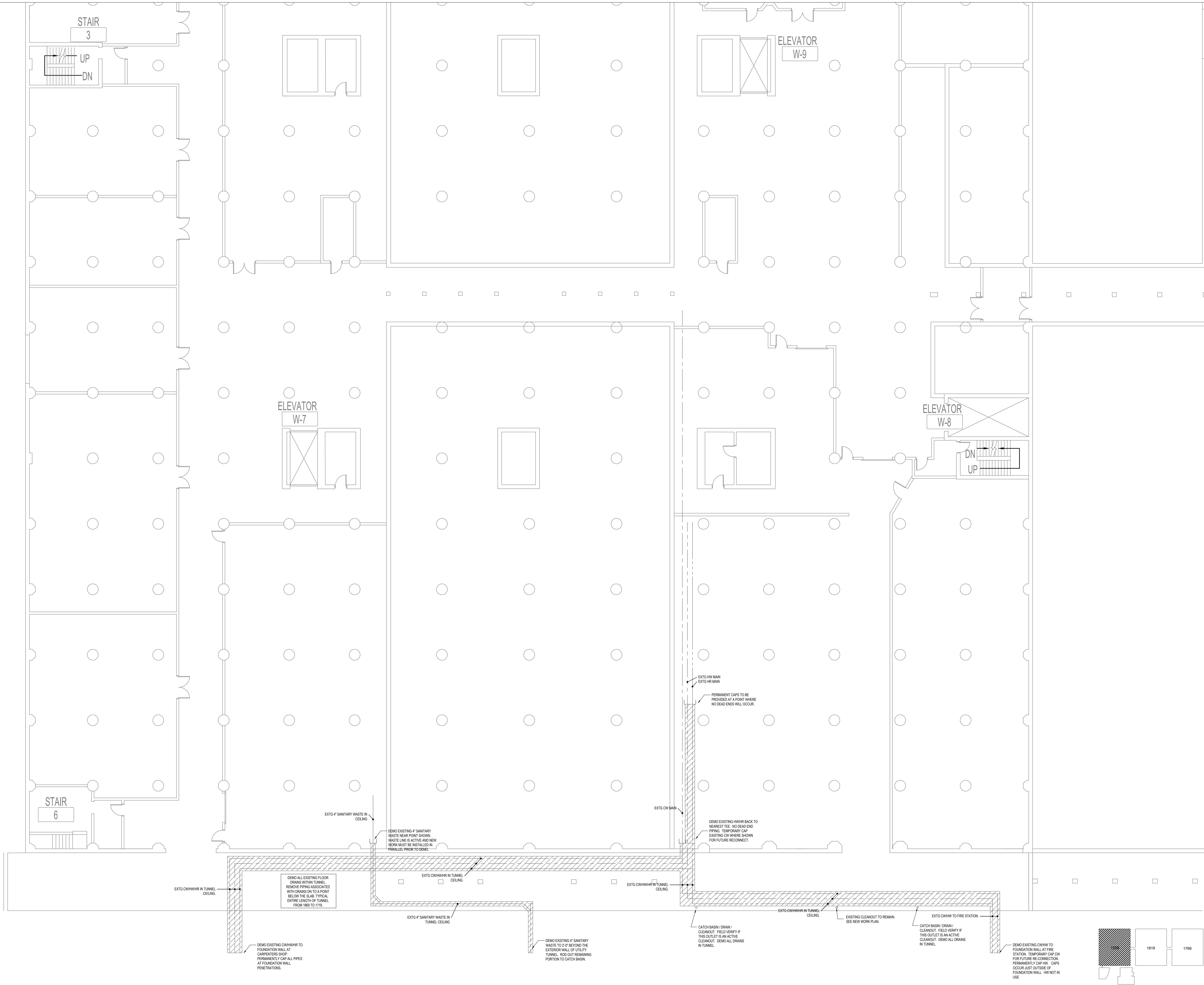
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PBC Project Name:	1769,1819,1869 Pershing Tunnel Renovation
PBC Contract No:	
Project No:	#D4028
Title	

PLUMBING SYMBOLS, DETAILS AND NOTES

Sheet
P-001



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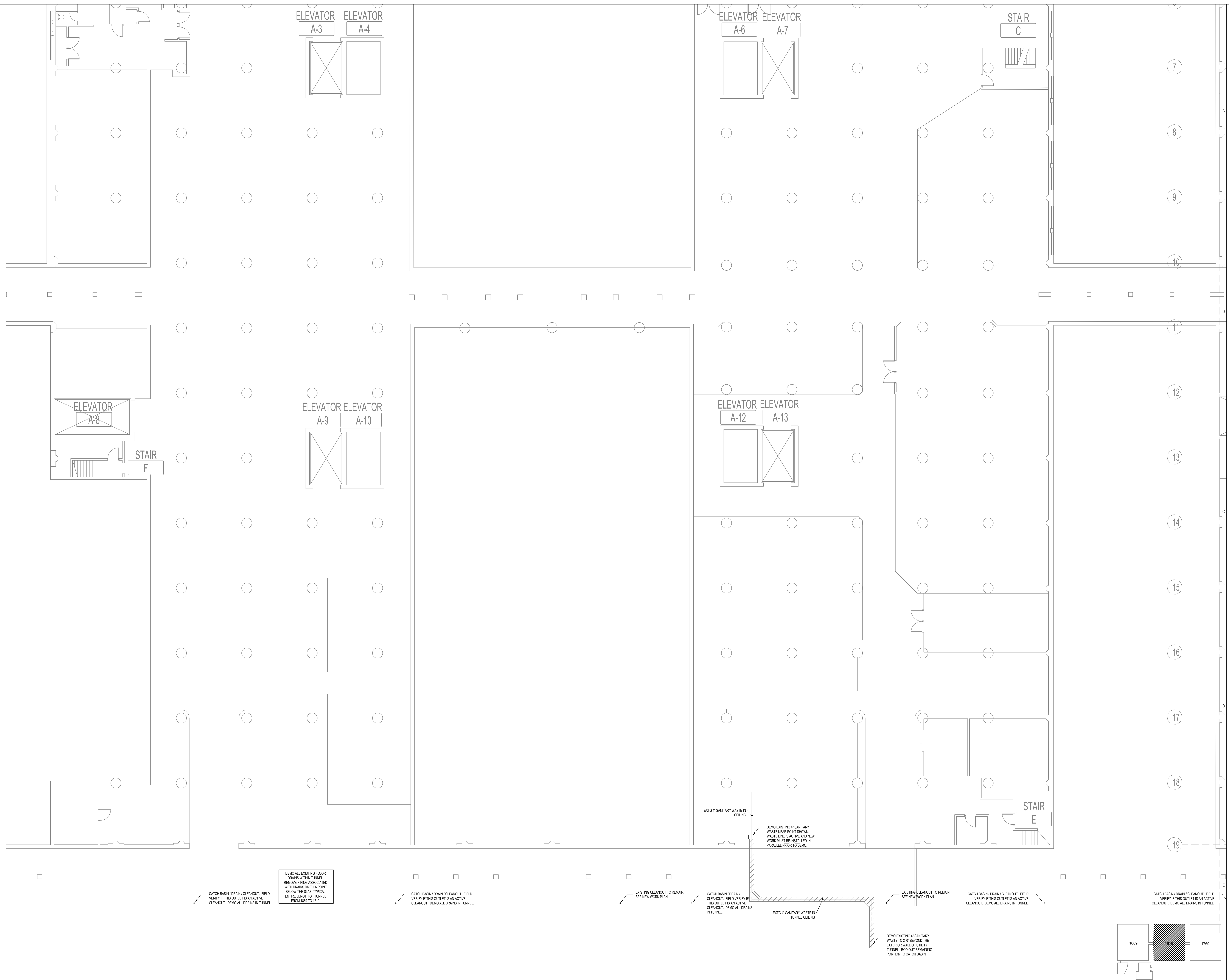
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Project No: #04028
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**BASEMENT
PLUMBING DEMO
PLAN - 1869**



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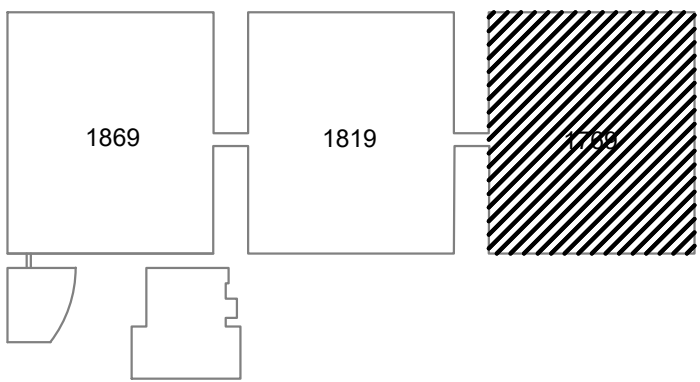
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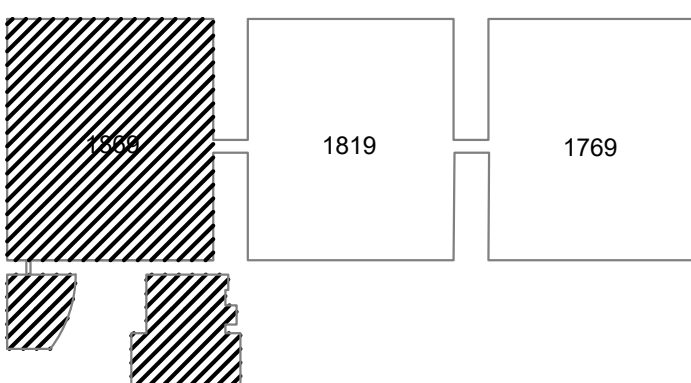
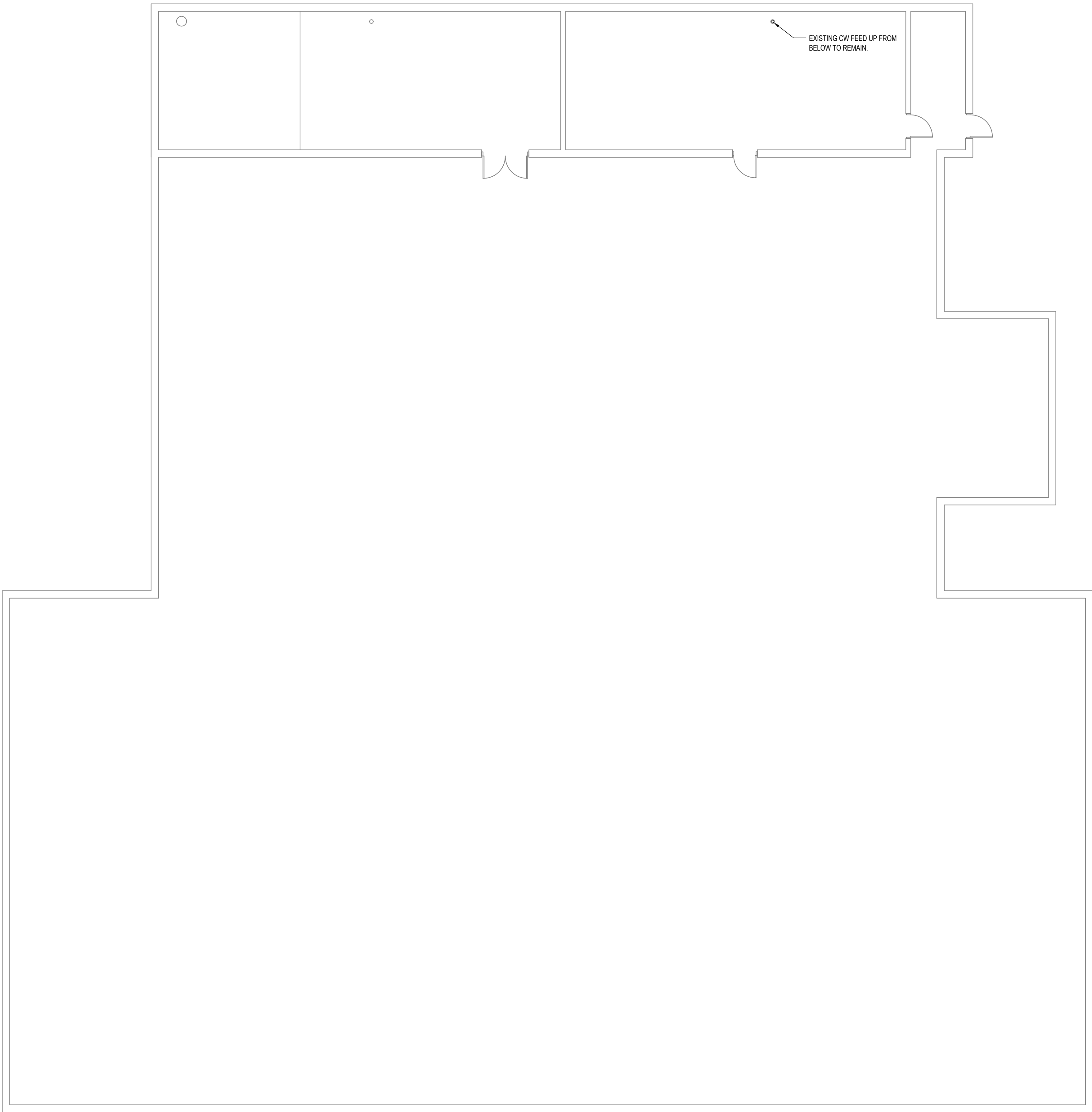
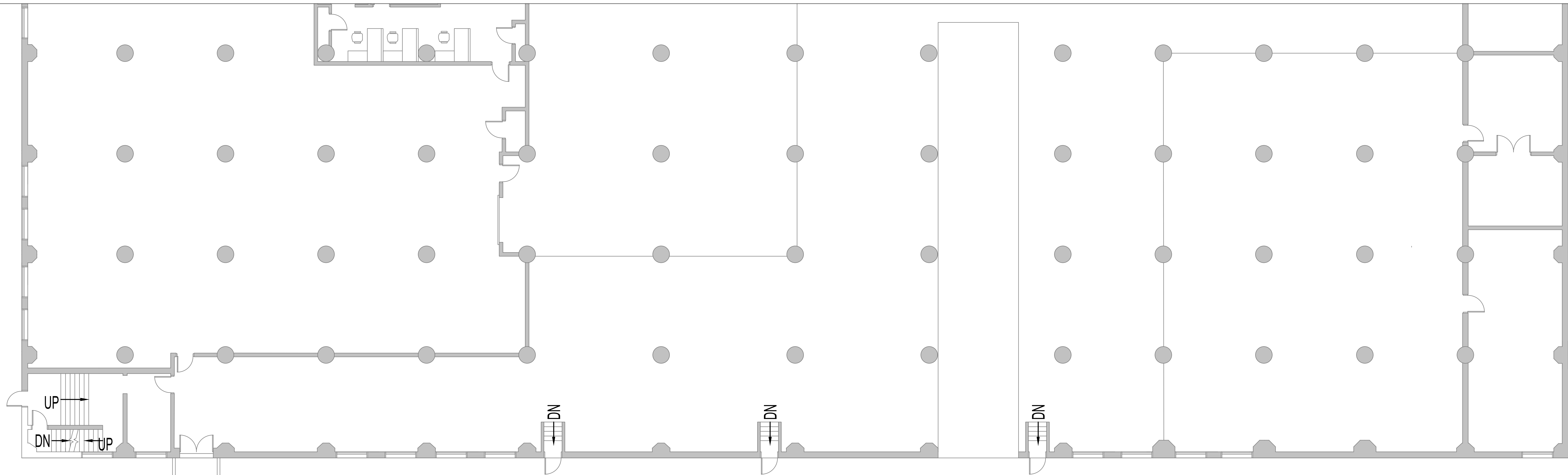
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BASEMENT
PLUMBING DEMO
PLAN - 1819

PD-101



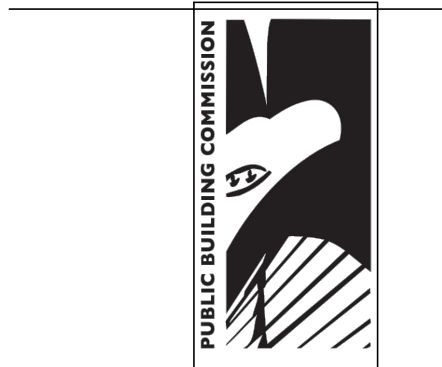


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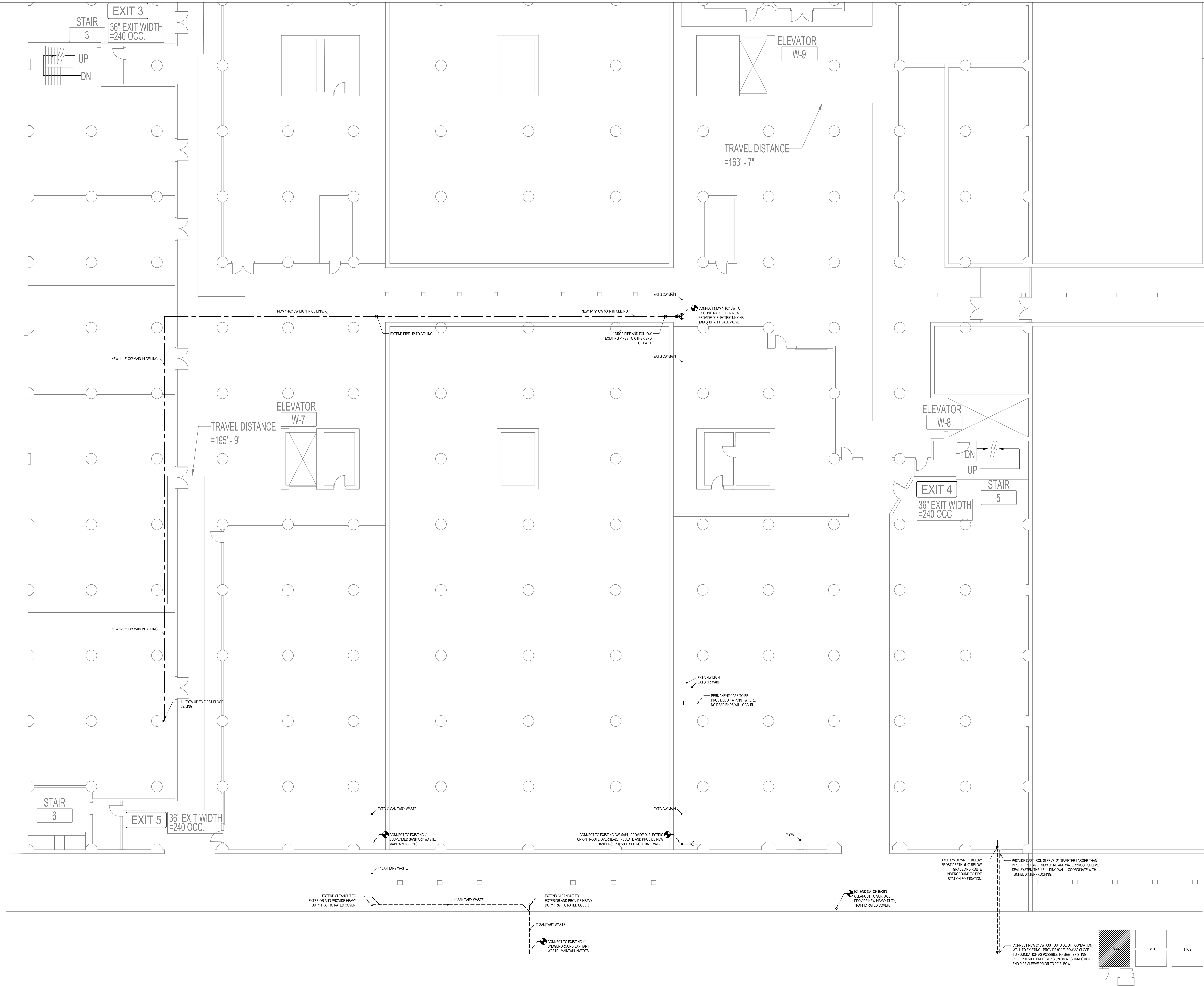
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Project No: #04028
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**GROUND FLOOR
PLUMBING DEMO
PLAN - 1869**

Sheet
PD-200



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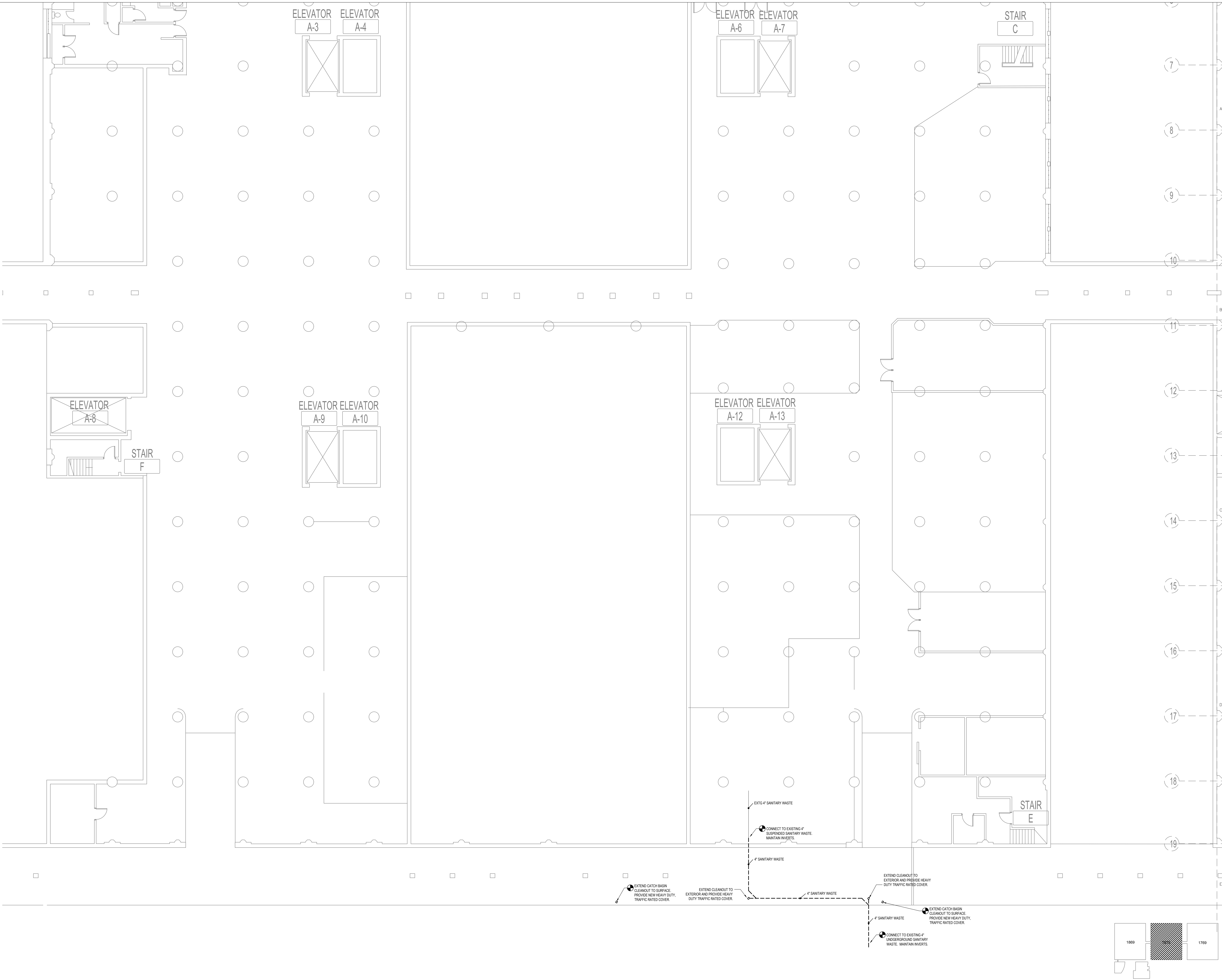
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GROUND FLOOR PLUMBING NEW WORK PLAN - 1869

Sheet
P-100



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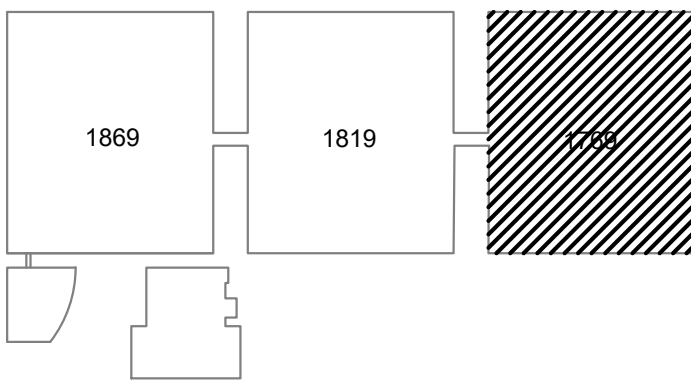
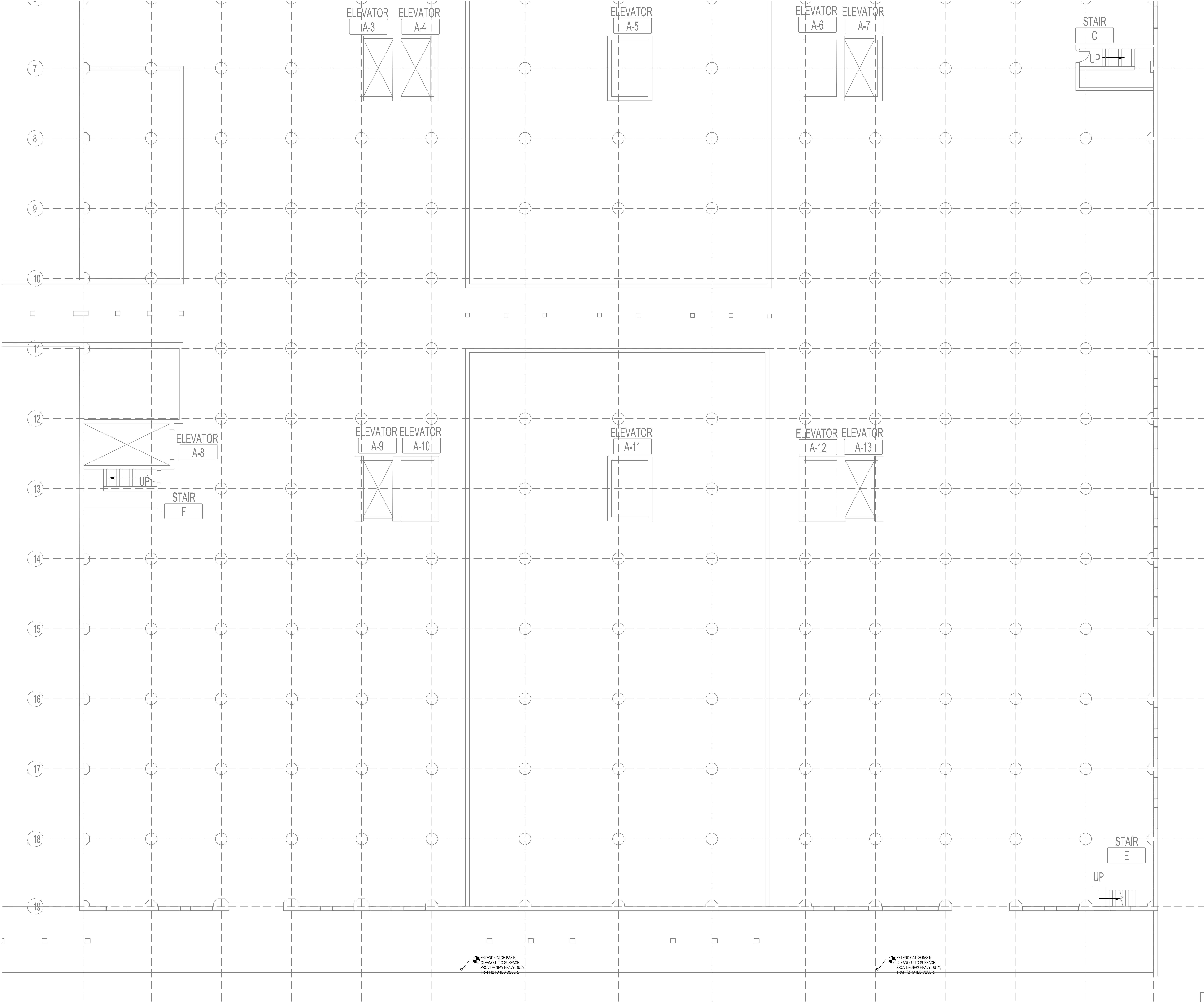
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**GROUND FLOOR
PLUMBING NEW
WORK PLAN - 1819**

Sheet
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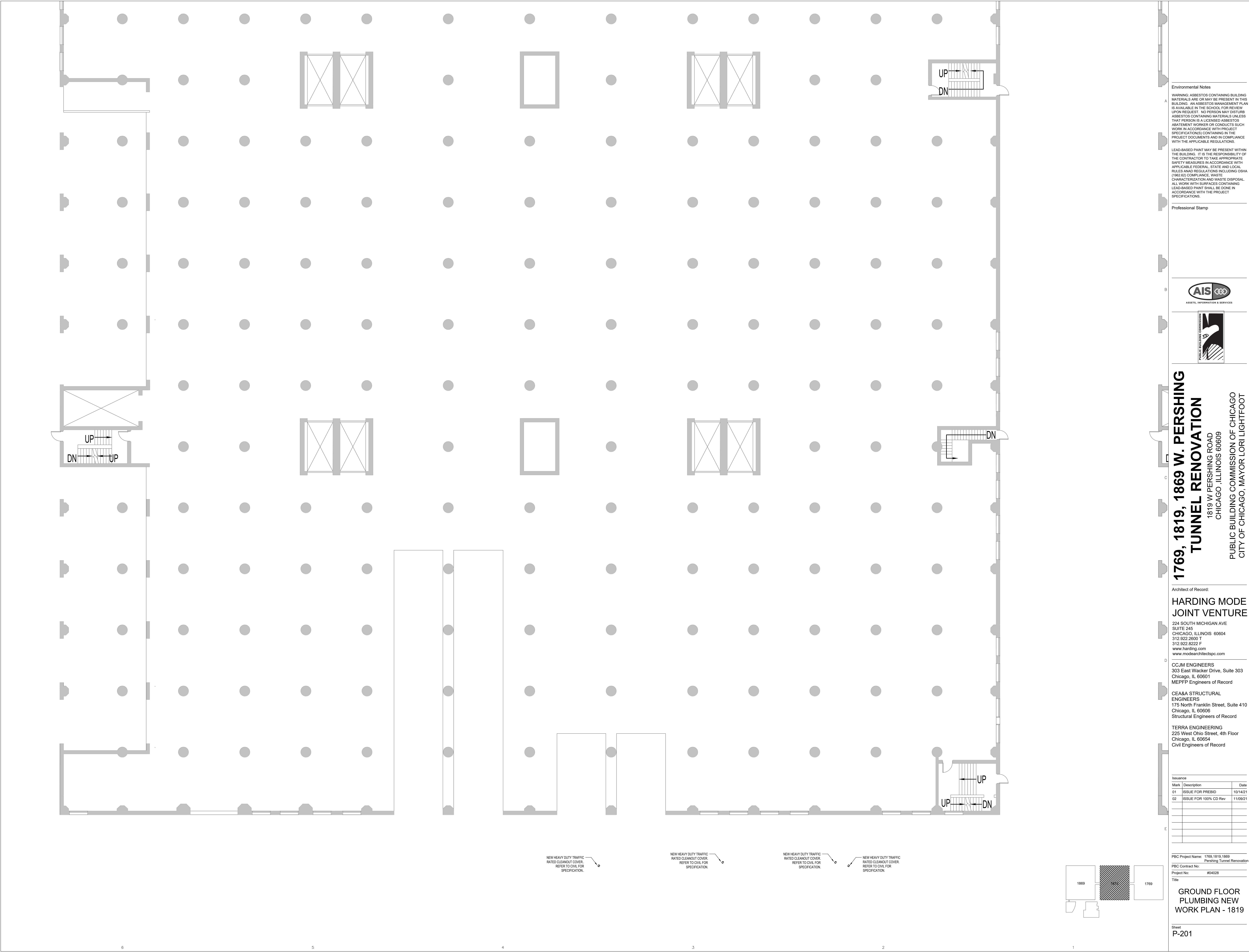
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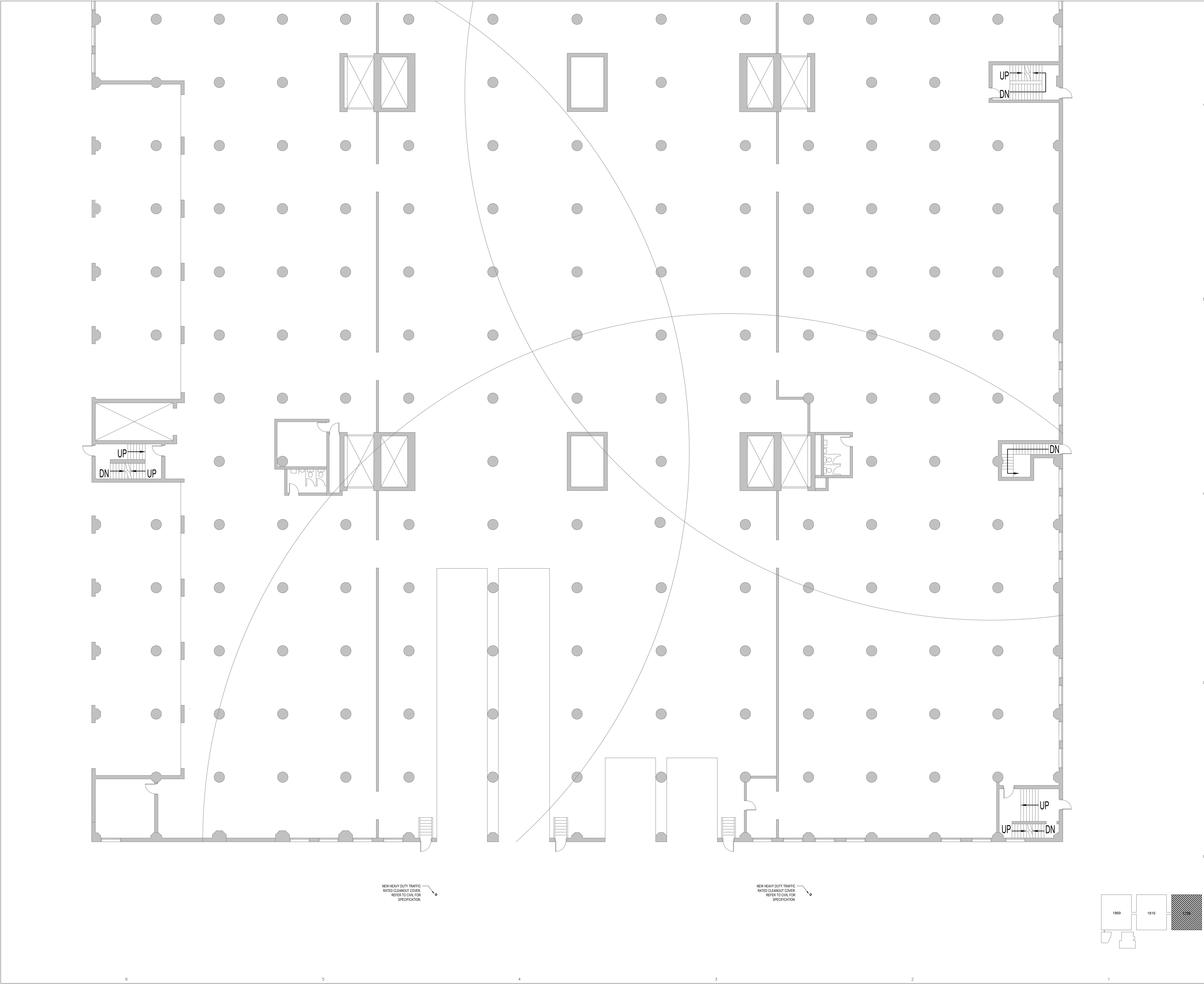
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GROUND FLOOR
PLUMBING NEW
WORK PLAN - 1769

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PUBLIC BUILDING COMMISSION OF CHICAGO CITY OF CHICAGO, MAYOR LORI LIGHTFOOT

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Mark	Description	Date
01	ISSUE FOR PREBID	10/14/21
02	ISSUE FOR 100% CD Rev	11/09/21

PBC Project Name: 1769, 1819, 1869 Pershing Tunnel Renovation

PBC Contract No: #04028

Project No: #04028

Title

GROUND FLOOR PLUMBING NEW WORK PLAN - 1769

Sheet

P-202

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PBC Project Name: 1769, 1819, 1869 Pershing Tunnel Renovation
PBC Contract No:
Project No: #04028
Title

FIRE PROTECTION
SYMBOLS AND
NOTES

Sheet
FP-001

GENERAL FIRE PROTECTION NOTES:

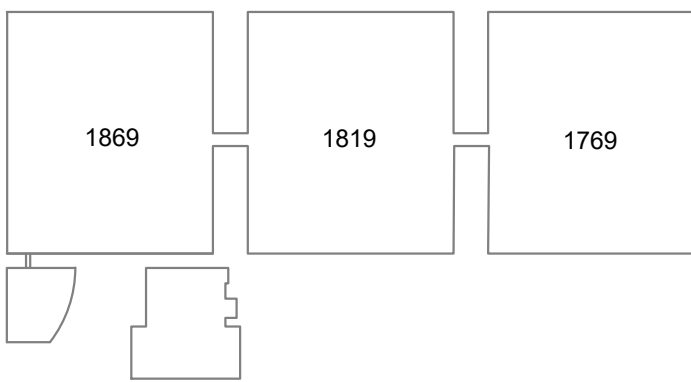
THIS IS A MODIFICATION TO AN EXISTING WET SPRINKLER SYSTEM IN A FULLY SPRINKLERED BUILDING.

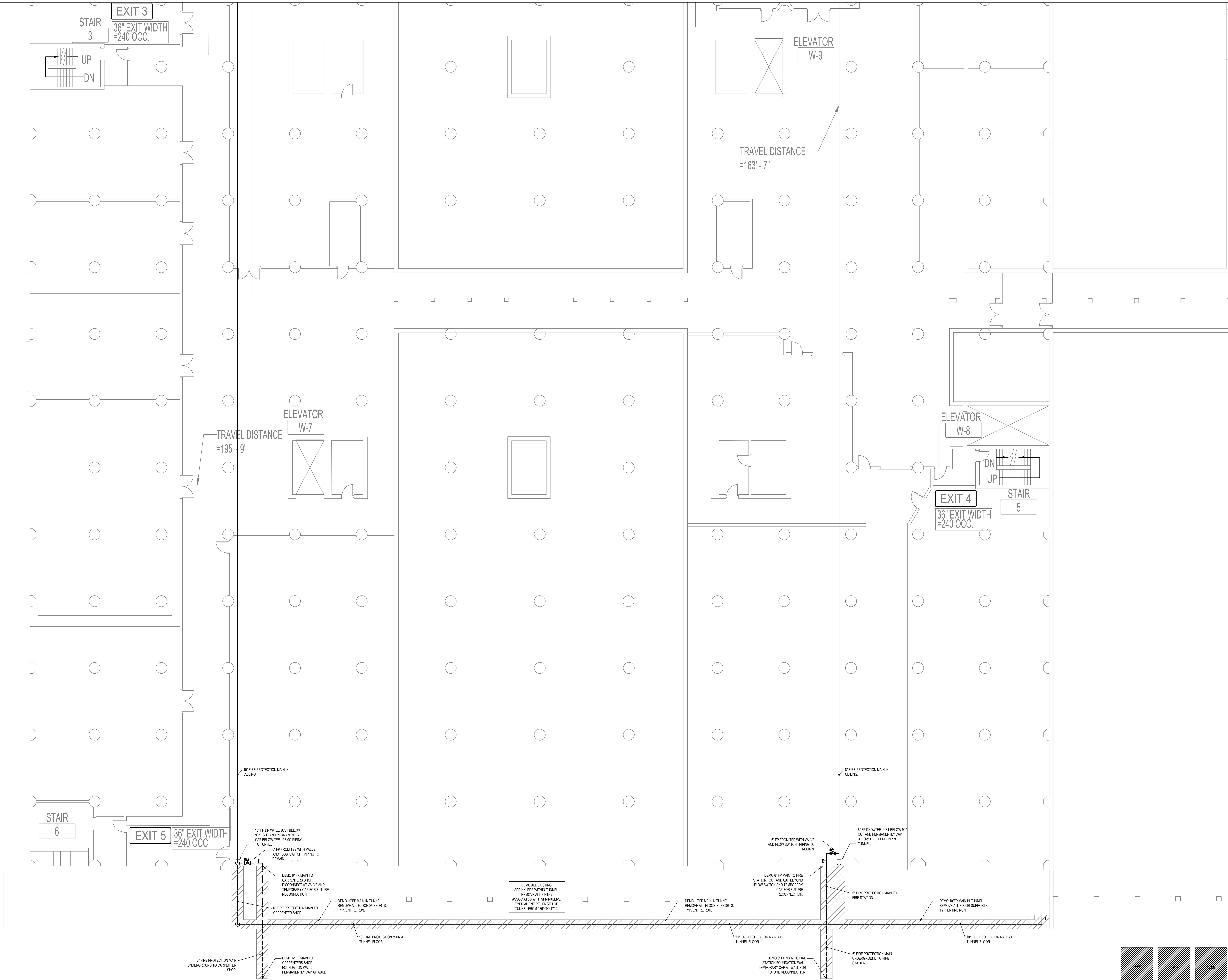
- EXISTING SPRINKLER PIPING SHALL BE REUSED THE EXTENT PRACTICAL.
- ALL FIRE PROTECTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL REQUIREMENTS OF THE LOCAL FIRE CODE AND NFPA STANDARD 13.
- ALL APPLICABLE PORTIONS OF NFPA PAMPHLETS WHICH ADDRESS THE INSTALLATION DETAILS OF THESE PLANS ARE HEREBY INCORPORATED BY REFERENCE.
- THE SPRINKLER CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY PIPING, FITTINGS, SPRINKLER HEADS, VALVES, CONTROLS AND ACCESSORIES REQUIRED FOR THE PROPER INSTALLATION AND OPERATION OF THE SPRINKLER SYSTEM. REMOVE, REPLACE, RELOCATE BRANCH PIPING AS NECESSARY. FIELD VERIFY LOCATION OF EXISTING SPRINKLER PIPING AND HEADS.
- THE SPRINKLER CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL DESIGN OF THE NEW SPRINKLER WORK. THIS CONTRACTOR SHALL MAKE NECESSARY CHANGES TO EXISTING SPRINKLER PIPING IN CASE THERE IS INTERFERENCE BETWEEN THE FIRE PROTECTION WORK AND OTHER TRADES. CONTRACTOR SHALL MODIFY THE EXISTING WET SPRINKLER SYSTEM DESIGN TO MEET LOCAL CODE. DESIGN SHALL BE PER NFPA-13 AND THE LOCAL FIRE CODE FOR LIGHT AND ORDINARY HAZARD CLASSIFICATIONS AS SHOWN ON DRAWING.
- ALL PIPING IN AREA OF SCOPE OF WORK WILL BE HYDROSTATICALLY TESTED AT 200 PSI FOR NO LESS THAN 2 HOURS. THE FIRE DEPARTMENT WILL BE NOTIFIED NO LESS THAN 48 HOURS PRIOR OF THE DATE AND TIME OF THE TEST, AND MAY WITNESS IT IF SO DESIRED OR REQUIRED.
- THE SPRINKLER CONTRACTOR SHALL PROVIDE SHUTOFF VALVES ON THE EXISTING SPRINKLER PIPING SUPPLYING THE NEW CONSTRUCTION AREA. THE SHUTOFF VALVES ARE REQUIRED TO MINIMIZE THE MAIN SYSTEM SHUT DOWN TO THE BUILDING DURING CONSTRUCTION.
- COORDINATION OF SPRINKLER PIPING WITH ALL OTHER TRADES AND NEW CONDITIONS SHALL BE THE RESPONSIBILITY OF THE SPRINKLER CONTRACTOR. PIPING SHALL BE ROUTED CLEAR OF ANY EQUIPMENT THAT WOULD RESTRICT PROPER FUNCTION AND ACCESSIBILITY.
- PIPING FOR ALL SPRINKLER BRANCH PIPING 2" AND SMALLER SHALL BE SCHEDULE 40 BLACK STEEL. SCHEDULE 10 MAY BE USED FOR PIPING 2-1/2" AND LARGER. SCHEDULE 10 PIPING SHALL ONLY BE WELDED OR ROLL GROOVED. FITTINGS ARE TO BE UL LISTED AND FM APPROVED. GROOVED COUPLINGS SHALL BE VICTALIC "ZERO FLEX". "XL" PIPING WILL NOT BE APPROVED.
- NOT USED.
- ALL VALVES CONTROLLING WATER SUPPLY TO SPRINKLER SHALL BE O.S.&Y. TYPE AND SHALL BE EQUIPPED WITH SUPERVISORY SWITCHES. COORDINATE SUPERVISORY ALARMS WITH BUILDING FIRE ALARM SYSTEM.
- EACH INSPECTORS' TEST CONNECTION WILL HAVE AN "INSPECTORS' TEST CONNECTION" SIGN ATTACHED THERETO. COORDINATE DRAIN LOCATION.
- AUXILIARY DRAINS AND SIGNS WILL BE PROVIDED AT THE LOW POINT OF EACH TRAPPED SECTION OF PIPING AND IDENTIFYING SIGNS WILL BE ATTACHED THERETO.
- AUTHORITIES MUST BE NOTIFIED 24 HOURS IN ADVANCE TO WITNESS TESTS.
- WATERFLOW DETECTING DEVICES INCLUDING THE ASSOCIATED ALARM CIRCUITS SHALL BE FLOW TESTED THROUGH THE INSPECTORS TEST CONNECTION TO RESULT IN AN ALARM ON THE PREMISES WITHIN 5 MIN. AFTER SUCH FLOW BEGINS.

FIRE PROTECTION SYMBOLS	
LINE/TYPES	SYMBOLS
NEW PIPING	FE-1 FIRE EXTINGUISHER
EXISTING PIPING	FEC-1 FIRE EXTINGUISHER CABINET
DRY PIPING	FIRE HOSE CABINET
SPRINKLER PIPING	FIRE DEPARTMENT HOSE VALVE
MAIN DRAIN PIPING	FLUSH FIRE DEPARTMENT CONN.
ABBREVIATIONS	
AP ACCESS PANEL	FREE STANDING FD CONN.
BOP BOTTOM OF PIPE	ALARM BELL
DN DOWN	ALARM STROBE
ETR EXISTING TO REMAIN	NON-SPRINKLERED AREA
EXTG EXISTING	DEMO / TO BE REMOVED
FA FIRE ALARM	DEMO / TO BE REMOVED
FD FIRE DEPARTMENT	
FDC FIRE DEPARTMENT CONNECTION	
FE FIRE EXTINGUISHER	
FEC FIRE EXTINGUISHER CABINET	
FHC FIRE HOSE CABINET	
MECH MECHANICAL	
N/A NON APPLICABLE	
NC NOT IN CONTRACT	
NS NOT SPRINKLERED	
SPKLR SPRINKLER	
TS TAMPER SWITCH	
VF VERIFY IN FIELD	

SYSTEM TEST NOTES.

- ALL INTERIOR PIPING AND ATTACHED APPURTENANCES SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE HYDRAULICALLY TESTED AT 200 PSI AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR 2 HOURS.
- IN ADDITION TO THE STANDARD HYDROSTATIC TEST, AN AIR PRESSURE LEAKAGE TEST AT 40 PSI SHALL BE CONDUCTED FOR 24 HOURS. ANY LEAKAGE THAT RESULTS IN A LOSS OF PRESSURE IN EXCESS OF 1.5 PSI FOR THE 24 HOURS SHALL BE CORRECTED.
- ALL UNDERGROUND PIPING SHALL BE FLUSHED AS PER NFPA 24 BEFORE CONNECTING TO THE SYSTEM.
- ALL UNDERGROUND PIPING SHALL BE HYDRAULICALLY TESTED IN ACCORDANCE WITH NFPA 24.
- THE MAIN DRAIN VALVE SHALL BE OPENED AND REMAIN OPEN UNTIL THE SYSTEM PRESSURE STABILIZES. THE STATIC AND RESIDUAL PRESSURES SHALL BE RECORDED ON THE TEST CERTIFICATE.
- NOTIFY AUTHORITIES 24 HOURS IN ADVANCE TO WITNESS THE TESTS.
- WATERFLOW DETECTING DEVICES INCLUDING THE ASSOCIATED ALARM CIRCUITS SHALL BE FLOW TESTED THROUGH THE INSPECTORS TEST CONNECTION TO RESULT IN AN ALARM ON THE PREMISES WITHIN 5 MIN. AFTER SUCH FLOW BEGINS.





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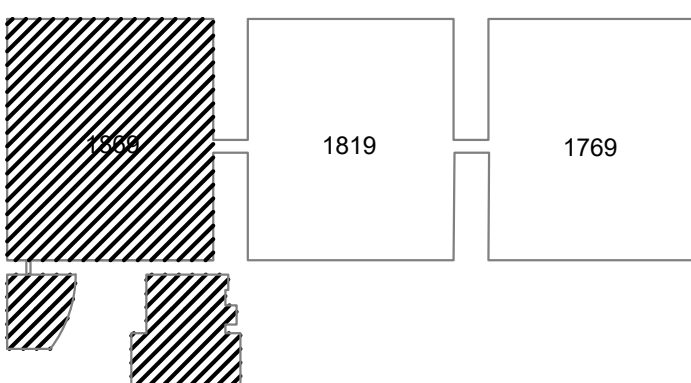
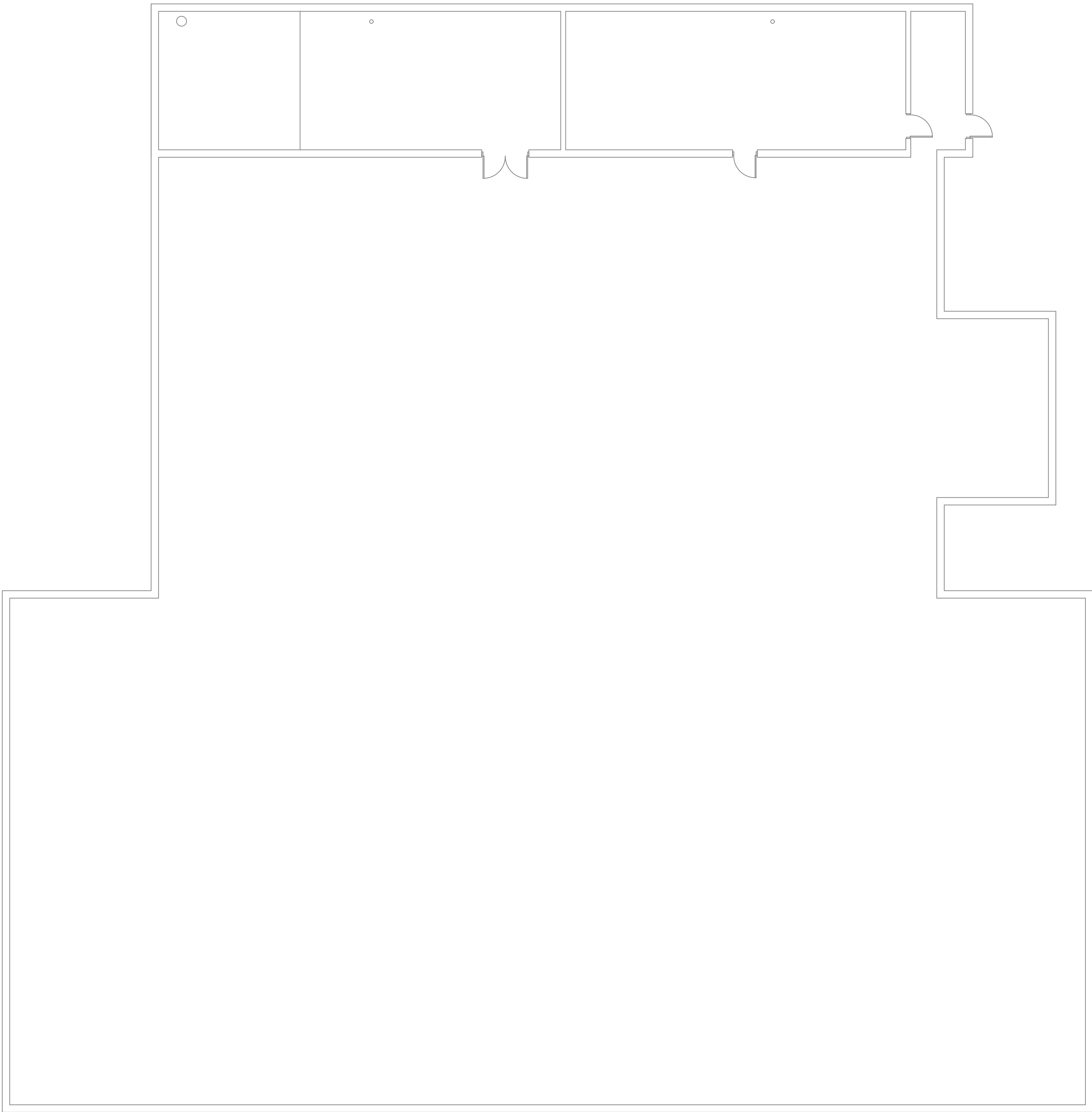
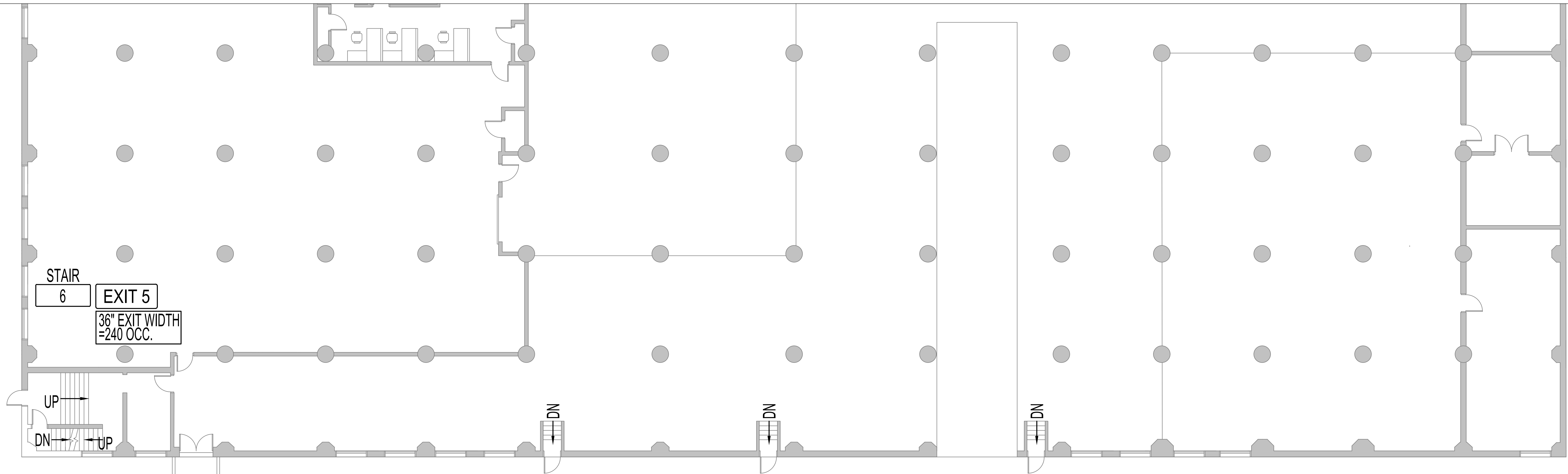
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PBC Project Name: 1769, 1819, 1869 Pershing Tunnel Renovation
PBC Contract No: #04028
Project No: #04028
Title: **BASEMENT FIRE PROTECTION DEMO PLAN - 1869**

Sheet
FPD-100

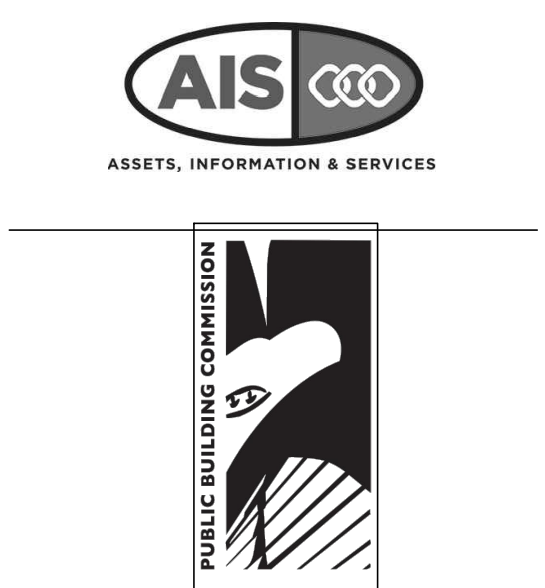


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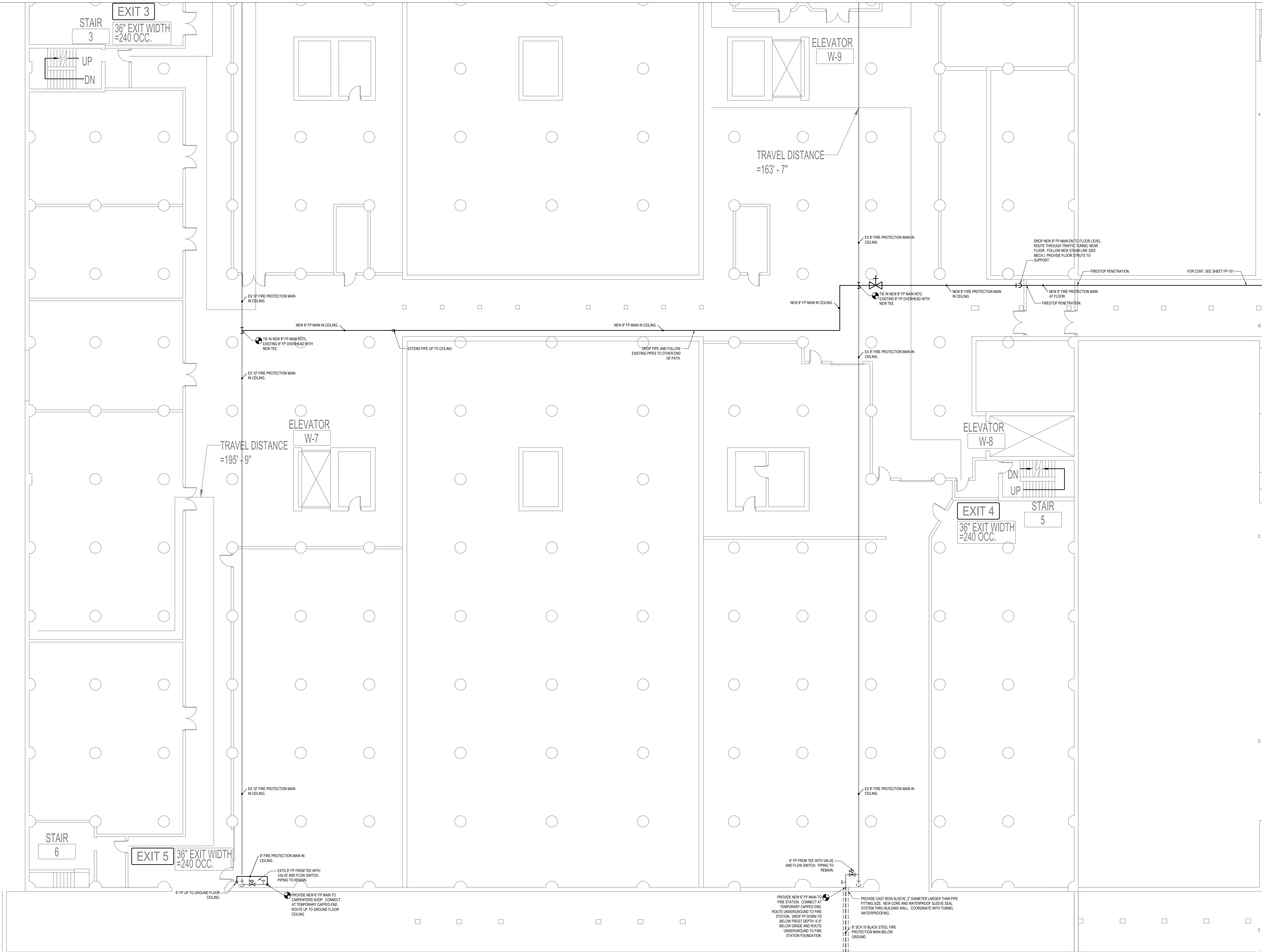
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**GROUND FLOOR
FIRE PROTECTION
DEMO PLAN - 1869**

Sheet
FPD-200



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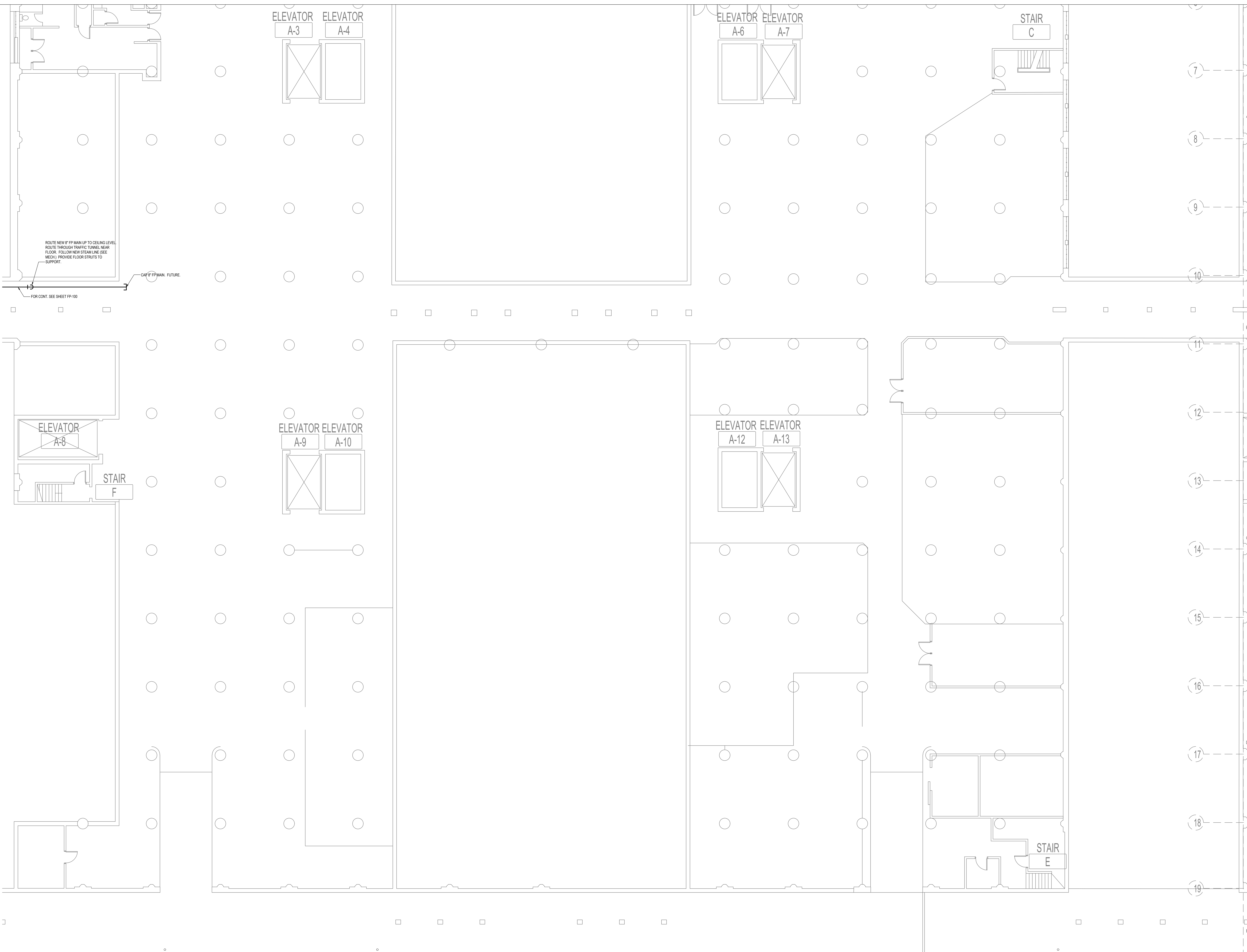
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BASEMENT FIRE PROTECTION NEW WORK PLAN - 1869

Sheet
FP-100

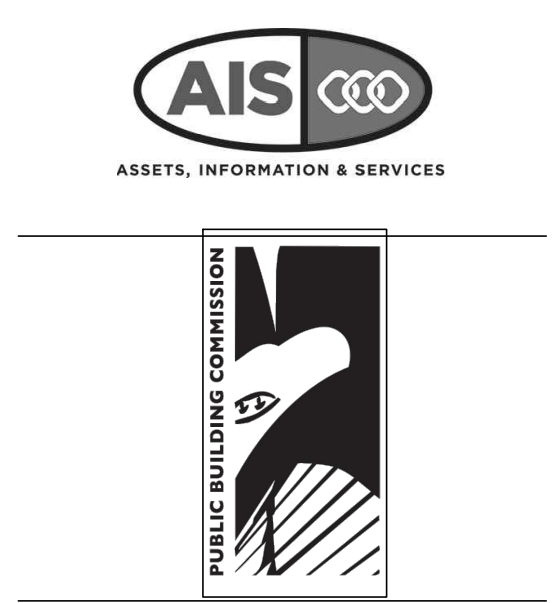


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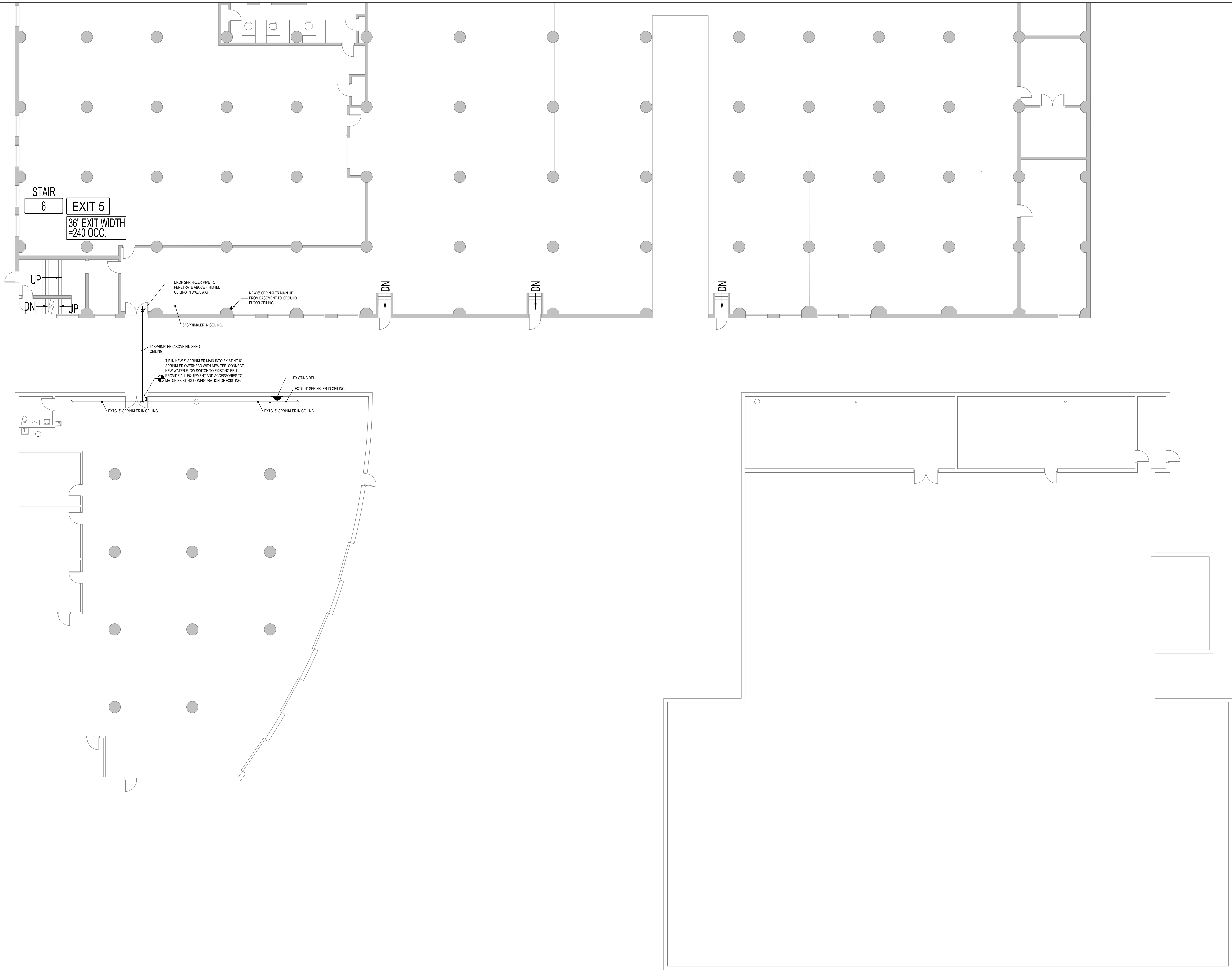
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BASEMENT FIRE PROTECTION NEW WORK PLAN - 1819

Sheet
FP-101



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**GROUND FLOOR
FIRE PROTECTION
NEW WORK PLAN -
1869**

Sheet
FP-200