

ABBREVIATIONS					
L	Angle	EXP-JT	Expansion Joint	PERP	Perpendicular
AE	Air Entrainment	EXT	Exterior	PLWD	Plywood
AB	Anchor Bolt	FB	Factory-Built	PJP	Partial Joint Penetration
ADDL	Additional	FD	Floor Drain	PREFAB	Prefabricated
ADH	Adhesive	FDN	Foundation	PSF	Pounds per Square Foot
ALT	Alternate	FIN	Finish	PSI	Pounds Per Square Inch
ARCH	Architectural	FLR	Floor	PSL	Parallel Strand Lumber
B or BOT	Bottom	FRP	Fiberglass Reinforced Plastic	P-T	Post-Tensioned
B/	Bottom Of	FRT	Fire Retardant Treated	PT	Pressure Treated
BLDG	Building	FTG	Footing	R	Radius
BLKG	Blocking	F/	Face Of	RD	Roof Drain
BMU	Brick Masonry Unit	GA	Gage	REF	Refer/Reference
BP	Baseplate	GALV	Galvanized	REINF	Reinforcing
BRBF	Buckling Restrained	GEOTECH	Geotechnical	REDD	Required
	Braced Frame	GL	Glue Laminated Timber	RET	Retaining
BRG	Bearing	GLWB	Gypsum Wall Board	SB	Site-Built
BTWN	Between	HDR	Header	SCBF	Special Concentric Braced Frame
C	Camber	HF	Hem-Fir	SCHED	Schedule
CANT	Cantilever	HGR	Hanger	SER	Structural Engineer of Record
CS	Castellated Beam	HD	Hood-down	SFRS	Seismic Force-Resisting System
C BORE	Counterbore	HEF	Horizontal Each Face	SHTG	Sheathing
CFMF	Cold Formed Metal Framing	HORIZ	Horizontal	SIM	Similar
CL or C	Centerline	HP	High Point	SL	Sloped/ Sloped
CLT	Cross-Laminated Timber	HSS = TS	(Hollow Structural Section)	SLBB	Short Leg Back-to-Back
CLT	Cast in Place	IBC	International Building Code	SMF	Special Moment Frame
CJ	Construction or Control Joint	ID	Inside Diameter	SOG	Slab on Grade
CJP	Complete Joint Penetration	IE	Invert Elevation	SP	Southern Pine
CLR	Clear	IF	Inside Face	SPEC	Specification
CLG	Ceiling	INT	Interior	SO	Square
CMU	Concrete Masonry Unit	k	Kips	SR	Studial
COL	Column	KSF	Kips Per Square Foot	SF	Square Foot
CONC	Concrete	LF	Lineal Foot	SS	Stainless Steel
CONC	Concrete	LL	Live Load	STAGG	Stagger/Staggered
CONN	Connection	LLB	Long Leg Back-to-Back	STD	Standard
CONST	Construction	LLH	Long Leg Horizontal	STIFF	Stiffener
CONT	Continuous	LLV	Long Leg Vertical	STL	Steel
C-SNK	Countersink	LP	Low Point	STRUCT	Structural
CTRD	Centered	LONGIT	Longitudinal	SWWJ	Solid Web Wood Joist
DB	Drop Beam	LSL	Laminated Strand Lumber	SYM	Symmetrical
DBA	Deformed Bar Anchor	LVL	Laminated Veneer Lumber	T	Top
DBL	Double	LW	Light Weight	T/	Top Of
DEMO	Demolish	MAS	Masonry	T&B	Top & Bottom
DEV	Development	MAX	Maximum	TC AX LD	Top Chord Axial Load
DF	Douglas Fir	MECH	Mechanical	TCX	Top Chord Extension
DIA	Diameter/ Ø	MEP	Mechanical, Electrical, Plumbing	TDSE	Turned Down Slab Edge
DIAG	Diagonal	MFR	Manufacturer	T&G	Tongue & Groove
DIST	Distributed	NIN	Minimum	THKND	Thickened
DL	Dead Load	MISC	Miscellaneous	THRD	Threaded
DN	Down	NIC	Not In Contract	THRU	Through
DO	Ditto	NLT	Nail-Laminated Timber	TRANSV	Transverse
DP	Depth/Deep	NTS	Not To Scale	TS	Thickened Slab
DWG	Drawing	NW	Normal Weight	TYP	Typical
EA	Each	OC	On Center	UNO	Unless Noted Otherwise
EA	Each	OCBF	Ordinary Concentric Braced Frame	URM	Unreinforced Masonry
EF	Each Face	OD	Outside Diameter	UNIT	Unit
EL	Elevation	OF	Outside Face	VEF	Vertical Each Face
ELEC	Electrical	OP	Opening	VERT	Vertical
ELEV	Elevator	OPP	Opposite	W	Wide
EMBED	Embedment	OWSJ	Open Web Steel Joist	W/	With
ENGR	Engineer	OWWJ	Open Web Wood Joist	W/O	Without
EQ	Equal	PL	Plate	WHS	Welded Headed Stud
EQUIP	Equipment	PAF	Powder Actuated Fastener	WP	Working Point
EW	Each Way	PC	Precast	WWF	Welded Wire Fabric
EXP	Expansion				

STRUCTURAL SHEET LIST	
SHEET NUMBER	SHEET TITLE
S001	COVER SHEET
S002	GENERAL NOTES
S101	EXHIBIT HALL A - OVERALL PLAN
S102	PARTIAL EXHIBIT HALL A PLAN - AREA A
S103	PARTIAL EXHIBIT HALL A PLAN - AREA B
S104	PARTIAL EXHIBIT HALL A PLAN - AREA C
S105	PARTIAL EXHIBIT HALL A PLAN - AREA D
S501	TYPICAL DETAILS
Sheet Total: 8	

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 CONTACT: R. SAVONA

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GENERAL	
PARAGRAPH	NOTES
G1	ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH ALL DRAWINGS AND SPECIFICATIONS CONTAINED HEREIN.
G2	ALL WORK RELATED TO THE STAGING, CONSTRUCTION PRACTICES, AND SAFETY OF THE PROJECTS WORKERS AND PROPERTY SHALL BE CONSIDERED MEANS AND METHODS AND SHALL BE COMPLETED BY THE CONTRACTOR IN ACCORDANCE WITH STANDARD INDUSTRY PRACTICE AND ALL CODES AND STANDARDS. VISITS TO THE SITE MADE BY THE ENGINEER ARE FOR THE REVIEW OF THE STRUCTURAL WORK FOR GENERAL CONFORMANCE WITH THE DRAWINGS AND SPECIFICATIONS AND ARE NOT FOR THE REVIEW OF CONTRACTOR RESPONSIBILITIES, INCLUDING BUT NOT LIMITED TO PROJECT SAFETY AND MEANS AND METHODS OF CONSTRUCTION.
G3	ALL DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH THE 2018 INTERNATIONAL BUILDING CODE, PENNSYLVANIA UNIFORM CONSTRUCTION CODE, AS WELL AS ALL REFERENCED STANDARDS CONTAINED THEREIN.
G4	EVALUATION AND COMPLIANCE WITH LOADING RESTRICTIONS FOR MEANS AND METHODS OF CONSTRUCTION AS WELL AS STAGING FOR OTHER TRADES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
G5	ALL WORK SHALL BE INSPECTED IN ACCORDANCE WITH CHAPTER 17 OF THE REFERENCED BUILDING CODE. SUBMIT ALL REPORTS TO THE ENGINEER OF RECORD FOR REVIEW, AT THE COMPLETION OF THE PROJECT, THE SPECIAL INSPECTION REPORT SHALL BE COMPLETED, SIGNED BY THE SPECIAL INSPECTOR, AND SUBMITTED TO THE ENGINEER OF RECORD FOR RECORD PURPOSES.
G6	SCALING OF DRAWINGS TO DETERMINE DIMENSIONS OF ELEMENTS IS NOT PERMITTED.
G7	STRUCTURAL DRAWINGS SHALL NOT BE REPRODUCED TO CREATE SHOP DRAWINGS OR SHORING DOCUMENTATION WITHOUT THE EXPRESS WRITTEN CONSENT OF MACINTOSH ENGINEERING.
G8	ALL HORIZONTAL AND VERTICAL DIMENSIONS CONTAINED ON THE STRUCTURAL DRAWINGS WERE DEVELOPED BY OTHER DISCIPLINES FOR THE PURPOSE OF THIS PROJECT. ANY DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHOULD BE COORDINATED WITH THE OTHER DISCIPLINE DRAWINGS.
G9	THE STRUCTURAL DOCUMENTS ARE TO BE USED IN COORDINATION WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS AS WELL AS THOSE OF ALL OTHER DISCIPLINES. ANY DISCREPANCIES SHOULD BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.
G10	ALL REQUESTED CHANGES IN WORK BY THE CONTRACTOR ARE SUBJECT TO THE APPROVAL OF THE DESIGN TEAM AND OWNER AND ARE CONSIDERED TO BE COMPLETED AT NO ADDITIONAL COST UNLESS SPECIFICALLY APPROVED. APPROVAL OF REQUESTED CHANGES DOES NOT CONSTITUTE APPROVAL OF AN INCREASE IN PROJECT COSTS.

SHOP DRAWING REQUIREMENTS	
PARAGRAPH	NOTES
SD1	SHOP DRAWINGS SHALL BE SUBMITTED FOR THE FOLLOWING ITEMS FOR THIS PROJECT:
SD1.1	CONCRETE MIX DESIGNS INCLUDING ALL LABORATORY TESTING, MATERIALS, ETC.
SD1.2	ALL ADMIXTURES, SEALANTS, HARDENERS, COATINGS, MORTARS.
SD1.3	EXPANSION JOINTS AND PERIMETER JOINTS.
SD2	ALL SHOP DRAWINGS NOTED ABOVE SHALL BE SUBMITTED IN A TIMELY MANNER TO ALLOW FOR A 10 BUSINESS DAY REVIEW PERIOD BY THE DESIGN TEAM. ALL SUBMITTED DRAWINGS SHALL CONTAIN THE CONSTRUCTION MANAGER REVIEW STAMP.
SD3	SHOP DRAWINGS MAY BE SUBMITTED ELECTRONICALLY; HOWEVER, A MINIMUM OF ONE (1) HARD COPY SHALL BE PROVIDED FOR ALL SHOP DRAWINGS. IF NO HARD COPY IS PROVIDED, PRINTING AND TIME COSTS WILL BE CHARGED TO ORGANIZE AND PRINT SHOP DRAWINGS.
SD4	ELECTRONIC SHOP DRAWINGS SHALL BE SUBMITTED AS AN ORGANIZED SINGLE FILE DOCUMENT. DRAWINGS SHALL BE ORGANIZED IN NUMERIC ORDER WITH ALL REFERENCED PLANS LOCATED FIRST IN THE SUBMITTAL.
SD5	SHOP DRAWINGS WILL BE MARKED AS NOTED ON THE REVIEW STAMP. SHOP DRAWINGS MARKED "MAKE CORRECTIONS NOTED" ARE TO BE RE-SUBMITTED FOR RECORD PURPOSES AND WILL NOT BE RE-REVIEWED AS AN ADDITIONAL SUBMITTAL. REVIEW OF "MAKE CORRECTIONS NOTED" SHOP DRAWINGS BEYOND ONE RE-SUBMITTAL WILL REQUIRE ADDITIONAL FEE.
SD6	CONTRACTOR SHALL PROVIDE DESIGN TEAM WITH A SHOP DRAWING SUBMITTAL SCHEDULE TO ALLOW THE ENGINEERING TEAM APPROPRIATE NOTICE OF SUBMITTALS, DUE DATES, AND ALLOW FOR APPROPRIATE STAFFING SCHEDULE SHALL BE PROVIDED PRIOR THE FIRST SUBMITTAL.

EXISTING CONSTRUCTION	
PARAGRAPH	NOTES
E1	THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, COORDINATION, AND INSTALLATION OF SHORING AND STABILIZATION OF EXISTING CONSTRUCTION AS REQUIRED TO PERFORM THE WORK CONTAINED IN THE DRAWINGS AND SPECIFICATIONS.
E2	DIMENSIONS SHOWN REFERRING TO EXISTING STRUCTURES ARE FOR REFERENCE ONLY. ALL DIMENSIONS RELATED TO EXISTING BUILDINGS AND FRAMING SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORK.
E3	THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY INFORMATION RELATING TO THE EXISTING STRUCTURE THAT HAS BEEN UNCOVERED DUE TO DEMOLITION AND REMOVAL OF FINISHES.

## STRUCTURAL — REMEDIATION SPECIFICATIONS

### PART 1 — PRODUCTS

#### 1.1 MANUFACTURERS

A. SOURCE LIMITATIONS: FOR REPAIR PRODUCTS, OBTAIN EACH COLOR, GRADE, FINISH, TYPE, AND VARIETY OF PRODUCT FROM SINGLE SOURCE AND FROM SINGLE MANUFACTURER WITH RESOURCES TO PROVIDE PRODUCTS OF CONSISTENT QUALITY IN APPEARANCE AND PHYSICAL PROPERTIES.

#### 1.2 BONDING/ANTI-CORROSION AGENTS

A. EPOXY-MODIFIED, CEMENTITIOUS BONDING AND ANTICORROSION AGENT: MANUFACTURED PRODUCT THAT CONSISTS OF WATER-INSENSITIVE EPOXY ADHESIVE, PORTLAND CEMENT, AND WATER-BASED SOLUTION OF CORROSION-INHIBITING CHEMICALS THAT FORMS A PROTECTIVE FILM ON STEEL REINFORCEMENT.

1. PRODUCTS, SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:

- BASE CORPORATION: CONSTRUCTION SYSTEMS; EMACO P 124
- EUCLID CHEMICAL COMPANY (THE) AN RPM COMPANY; DURAL 335
- IPA; IPANOL — C

B. MORTAR SCRUB COAT: MIX CONSISTING OF 1 PART PORTLAND CEMENT AND 1 PART FINE AGGREGATE COMPLYING WITH ASTM C 144 EXCEPT 100 PERCENT PASSING A NO. 16 SIEVE.

#### 1.3 PATCHING MORTAR

A. PATCHING MORTAR REQUIREMENTS:

- ONLY USE PATCHING MORTARS THAT ARE RECOMMENDED BY MANUFACTURER FOR EACH APPLICABLE HORIZONTAL, VERTICAL, OR OVERHEAD USE ORIENTATION.
- COLOR AND AGGREGATE TEXTURE: PROVIDE PATCHING MORTAR AND AGGREGATES OF COLORS AND SIZES NECESSARY TO PRODUCE PATCHING MORTAR WHERE INDICATED THAT MATCHES EXISTING, ADJACENT, EXPOSED CONCRETE. BLEND SEVERAL AGGREGATES IF NECESSARY TO ACHIEVE SUITABLE MATCHES.
- COARSE AGGREGATE FOR PATCHING MORTAR: ASTM C 33/C 33M, WASHED AGGREGATE, SIZE NO. 8, CLASS SS. ADD TO PATCHING-MORTAR MIX ONLY AS PERMITTED BY PATCHING-MORTAR MANUFACTURER.

B. JOB-MIXED PATCHING MORTAR: 1 PART PORTLAND CEMENT AND 2-1/2 PARTS FINE AGGREGATE COMPLYING WITH ASTM C 144, EXCEPT 100 PERCENT PASSING A NO. 16 SIEVE.

C. RAPID-STRENGTHENING, CEMENTITIOUS PATCHING MORTAR: PACKAGED, DRY MIX, ASTM C 928/C 928M FOR REPAIR OF CONCRETE.

1. PRODUCTS, SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:

- BASE CORPORATION: CONSTRUCTION SYSTEMS; MASTEREMACO N 400 RS MASTEREMACO T 1060 MASTEREMACO T 1061.
- EUCLID CHEMICAL COMPANY; SPEED CRETE RED LINE.
- IPA; IPATOP HES

2. COMPRESSIVE STRENGTH: NOT LESS THAN 4000 PSI AT 28 DAYS WHEN TESTED ACCORDING TO ASTM C 109/C 109M.

D. POLYMER-MODIFIED, CEMENTITIOUS PATCHING MORTAR: PACKAGED, DRY MIX FOR REPAIR OF CONCRETE AND THAT CONTAINS A LATEX ADDITIVE AS EITHER A DRY POWDER OR A SEPARATE LIQUID THAT IS ADDED DURING MIXING.

1. PRODUCTS, SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:

- BASE CORPORATION: CONSTRUCTION SYSTEMS; MASTEREMACO N 423 RS, MASTEREMACO N 400, MASTEREMACO N 400 RS, MASTEREMACO S 440 CI MASTEREMACO T 302.
- EUCLID CHEMICAL COMPANY; DURAL TOP FLOWABLE MORTAR.

2. COMPRESSIVE STRENGTH: NOT LESS THAN 4000 PSI AT 28 DAYS WHEN TESTED ACCORDING TO ASTM C 109/C 109M.

#### 1.4 JOINT SEALANT

A. ONE-COMPONENT, ELASTOMERIC POLYURETHANE SEALANT.

1. PRODUCTS, SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING UNLESS NOTED OTHERWISE ON THE DRAWINGS:

A) BASE CORPORATION: CONSTRUCTION SYSTEMS; MASTERSEAL NP1

B) EUCLID CHEMICAL COMPANY (THE) AN RPM COMPANY; ECOLASTIC 15U/1NS

B. POLYUREA JOINT FILLER, TWO-COMPONENT, SEMI-RIGID, 100 PERCENT SOLIDS, POLYUREA RESIN WITH A TYPE A SHORE DURETOMETER HARDNESS OF AT LEAST 80 ACCORDING TO ASTM D 2240.

1. PRODUCTS, SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:

A) BASE CORPORATION: CONSTRUCTION SYSTEMS; MASTERSEAL CR 100.

C. COLOR: MATCHING EXISTING JOINT.

#### 1.5 EPOXY CRACK-INJECTION MATERIALS

A. EPOXY CRACK-INJECTION ADHESIVE: ASTM C 881/C 881M, BONDING SYSTEM TYPE I FREE OF VOCs.

1. PRODUCTS, SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING:

A) BASE CORPORATION: CONSTRUCTION SYSTEMS; MASTERINJECT 1380, MASTERINJECT 1500.

B) EUCLID CHEMICAL COMPANY; DURAL INJECTION GEL.

C) IPA; IPANOL — LV

2. CAPPING ADHESIVE: PRODUCT MANUFACTURED FOR USE WITH CRACK-INJECTION ADHESIVE BY SAME MANUFACTURER.

3. COLOR: PROVIDE EPOXY CRACK-INJECTION ADHESIVE AND CAPPING ADHESIVE THAT BLEND WITH EXISTING, ADJACENT CONCRETE AND DO NOT STAIN CONCRETE SURFACE.

### PART 2 — EXECUTION

#### 2.1 EXAMINATION

- NOTIFY ARCHITECT SEVEN DAYS IN ADVANCE OF DATES WHEN AREAS OF DETERIORATED OR DELAMINATED CONCRETE AND DETERIORATED REINFORCING BARS WILL BE LOCATED.
- PERFORM SURVEYS AS THE WORK PROGRESSES TO DETECT HAZARDS RESULTING FROM CONCRETE-MAINTENANCE WORK.

#### 2.2 PREPARATION

- ENSURE THAT SUPERVISORY PERSONNEL ARE ON-SITE AND ON DUTY WHEN CONCRETE MAINTENANCE WORK BEGINS AND DURING ITS PROGRESS.
- PROTECT PERSONS, MOTOR VEHICLES, SURROUNDING SURFACES OF BUILDING BEING REPAIRED, BUILDING SITE, PLANTS, AND SURROUNDING BUILDINGS FROM HARM RESULTING FROM CONCRETE MAINTENANCE WORK.
  - COMPLY WITH EACH PRODUCT MANUFACTURER'S WRITTEN INSTRUCTIONS FOR PROTECTIONS AND PRECAUTIONS. PROTECT AGAINST ADVERSE EFFECTS OF PRODUCTS AND PROCEDURES ON PEOPLE AND ADJACENT MATERIALS, COMPONENTS, AND VEGETATION.
  - USE ONLY PROVEN PROTECTION METHODS APPROPRIATE TO EACH AREA AND SURFACE BEING PROTECTED.
  - CONTAIN DUST AND DEBRIS GENERATED BY CONCRETE MAINTENANCE WORK AND PREVENT IT FROM REACHING THE PUBLIC OR ADJACENT SURFACES.
  - USE WATER-MIST SPRINKLING AND OTHER WET METHODS TO CONTROL DUST ONLY WITH ADEQUATE, APPROVED PROCEDURES AND EQUIPMENT THAT ENSURE THAT SUCH WATER WILL NOT CREATE A HAZARD OR ADVERSELY AFFECT OTHER BUILDING AREAS OR MATERIALS.
  - PROTECT FLOORS AND OTHER SURFACES ALONG HAUL ROUTES FROM DAMAGE, WEAR, AND STAINING.
- PROTECT ADJACENT SURFACES AND EQUIPMENT BY COVERING THEM WITH HEAVY POLYETHYLENE FILM AND WATERPROOF MASKING TAP OR A LIQUID STRIPPABLE MASKING AGENT. IF PRACTICAL, REMOVE ITEMS, STORE, AND REINSTALL AFTER POTENTIALLY DAMAGING OPERATIONS ARE COMPLETE.
- NEUTRALIZE AND COLLECT ALKALINE AND ACID WASTES FOR DISPOSAL OFF OWNER'S PROPERTY.
- DISPOSE OF DEBRIS AND RUNOFF FROM OPERATIONS BY LEGAL MEANS AND IN A MANNER THAT PREVENTS SOIL EROSION, UNDERMINING OF PAVING AND FOUNDATIONS, DAMAGE TO LANDSCAPING, AND WATER PENETRATION INTO BUILDING INTERIORS.

C. PREPARATION FOR CONCRETE REMOVAL: EXAMINE CONSTRUCTION TO BE REPAIRED TO DETERMINE BEST METHODS TO SAFELY AND EFFECTIVELY PERFORM CONCRETE MAINTENANCE WORK. EXAMINE ADJACENT WORK TO DETERMINE WHAT PROTECTIVE MEASURES WILL BE NECESSARY. MAKE EXPLORATIONS, PROBES, AND INQUIRES AS NECESSARY TO DETERMINE CONDITION OF CONSTRUCTION TO BE REMOVED IN THE COURSE OF REPAIR.

D. PREPARATION FOR CRACK REPAIR: SAW-CUT JOINTS FULL WIDTH TO EDGES AND DEPTH OF SPALLS, BUT NOT LESS THAN 3/4 INCH DEEP. CLEAN OUT DEBRIS AND LOOSE CONCRETE; VACUUM OR BLOW CLEAR WITH COMPRESSED AIR.

E. SURFACE PREPARATION FOR OVERLAYS:

- REMOVE DELAMINATED MATERIAL AND DETERIORATED CONCRETE SURFACE MATERIAL.
- ROUGHEN SURFACE OF CONCRETE TO PRODUCE A SURFACE PROFILE MATCHING CSP 3 ACCORDING TO ICRI 310.2.
- USE SAND BLASTING OR SHOT BLASTING.
- SWEEP AND VACUUM ROUGHENED SURFACE TO REMOVE DEBRIS FOLLOWED BY LOW-PRESSURE WATER CLEANING.

F. NONACIDIC SURFACE PREPARATION FOR SEALERS: CLEAN CONCRETE TO REMOVE DIRT, OILS, FILMS, AND OTHER MATERIALS DETRIMENTAL TO SEALER APPLICATION.

1. USE SHOT BLASTING.

#### 2.3 CONCRETE REMOVAL

- DO NOT OVERLOAD STRUCTURAL ELEMENTS WITH DEBRIS.
- SAW-CUT PERIMETER OF AREAS INDICATED FOR REMOVAL TO A DEPTH OF AT LEAST 1/2 INCH. MAKE CUTS PERPENDICULAR TO CONCRETE SURFACES AND NO DEEPER THAN COVER ON REINFORCEMENT.
- REMOVE DETERIORATED AND DELAMINATED CONCRETE BY BREAKING UP AND DISLOGGING FROM REINFORCEMENT.
- REMOVE ADDITIONAL CONCRETE IF NECESSARY TO PROVIDE A DEPTH OF REMOVAL OF AT LEAST 1/2 INCH OVER ENTIRE REMOVAL AREA.
- TEST AREAS WHERE CONCRETE HAS BEEN REMOVED BY TAPPING WITH HAMMER, AND REMOVE ADDITIONAL CONCRETE UNTIL UNSOUND AND DEBONDED CONCRETE IS COMPLETELY REMOVED.
- PROVIDE SURFACES WITH A FRACTURED PROFILE OF AT LEAST 1/8 INCH THAT ARE APPROXIMATELY PERPENDICULAR OR PARALLEL TO ORIGINAL CONCRETE SURFACES. AT COLUMNS AND WALLS, MAKE TOP AND BOTTOM SURFACES LEVEL UNLESS OTHERWISE DIRECTED.
- THOROUGHLY CLEAN REMOVAL AREAS OF LOOSE CONCRETE, DUST, AND DEBRIS.

#### 2.4 BONDING AGENT APPLICATION

- EPOXY-MODIFIED, CEMENTITIOUS BONDING AND ANTICORROSION AGENT: APPLY CONCRETE BY STEEF BRUSH OR HOPPER SPRAY ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. APPLY TO REINFORCING BARS IN TWO COATS, ALLOWING FIRST COAT TO DRY TWO TO THREE HOURS BEFORE APPLYING SECOND COAT. ALLOW TO DRY BEFORE PLACING PATCHING MORTAR OR CONCRETE.
- EPOXY BONDING AGENT: APPLY TO CONCRETE BY BRUSH, ROLLER, OR SPRAY ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. LEAVING NO PINHOLES OR OTHER UNCOATED AREAS. APPLY TO REINFORCING BARS IN AT LEAST TWO COATS, ALLOWING FIRST COAT TO DRY BEFORE APPLYING SECOND COAT. PLACE PATCHING MORTAR OR CONCRETE WHILE EPOXY IS STILL TACKY. IF EPOXY DRIES, RECOAT BEFORE PLACING PATCHING MORTAR OR CONCRETE.
- LATEX BONDING AGENT, TYPE I: APPLY TO CONCRETE BY BRUSH ROLLER OR SPRAY. ALLOW TO DRY BEFORE PLACING PATCHING MORTAR OR CONCRETE.
- LATEX BONDING AGENT, TYPE II: MIX WITH PORTLAND CEMENT AND SCRUB INTO CONCRETE SURFACE ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. PLACE PATCHING MORTAR OR CONCRETE WHILE BONDING AGENT IS STILL WET. IF BONDING AGENT DRIES, RECOAT BEFORE PLACING PATCHING MORTAR OR CONCRETE.
- MORTAR SCRUB COAT FOR JOB-MIXED PATCHING MORTAR AND CONCRETE: DAMPEN REPAIR AREA AND SURROUNDING CONCRETE 8 INCHES BEYOND REPAIR AREA. REMOVE STANDING WATER AND APPLY SCRUB COAT WITH A BRUSH SCRUBBING IT INTO SURFACE AND THOROUGHLY COATING REPAIR AREA. IF SCRUB COAT DRIES, RECOAT BEFORE PLACING PATCHING MORTAR OR CONCRETE.
- SLURRY COAT FOR CEMENTITIOUS PATCHING MORTAR: WET SUBSTRATE THOROUGHLY AND THEN REMOVE STANDING WATER. SCRUB A SLURRY OF NEAT PATCHING MORTAR MIXED WITH LATEX BONDING AGENT INTO SUBSTRATE, FILLING PORES AND VOIDS.

#### 2.5 PATCHING MORTAR APPLICATION

- PLACE PATCHING MORTAR AS SPECIFIED IN THIS ARTICLE UNLESS OTHERWISE RECOMMENDED IN WRITING BY MANUFACTURER.
  - PROVIDE FORMS WHERE NECESSARY TO CONFINE PATCH TO REQUIRED SHAPE.
  - WET SUBSTRATE AND FORMS THOROUGHLY AND THEN REMOVE STANDING WATER.
- PRETREATMENT: APPLY SPECIFIED BONDING AGENT, MORTAR SCRUB COAT, AND/OR SLURRY COAT.
- GENERAL PLACEMENT: PLACE PATCHING MORTAR BY TROWELING TOWARD EDGES OF PATCH TO FORCE INTIMATE CONTACT WITH EDGE SURFACES. FOR LARGE PATCHES, FILL EDGES FIRST AND THEN WORK TOWARD CENTER, ALWAYS TROWELING TOWARD EDGES OF PATCH. AT FULLY EXPOSED REINFORCING BARS, FORCE PATCHING MORTAR TO FILL SPACE BEHIND BARS BY COMPACTING WITH TROWEL FROM SIDES OF BARS.
- VERTICAL PATCHING: PLACE MATERIAL IN LIFTS OF NOT MORE THAN 3 INCHES OR LESS THAN 1/4 INCH. DO NOT FEATHER EDGE.
- OVERHEAD PATCHING: PLACE MATERIAL IN LIFTS OF NOT MORE THAN 2 INCHES OR LESS THAN 1/4 INCH. DO NOT FEATHER EDGE.
- CONSOLIDATION: AFTER EACH LIFT IS PLACED, CONSOLIDATE MATERIAL AND SCREED SURFACE.
- MULTIPLE LIFTS: WHERE MULTIPLE LIFTS ARE USED, SCORE SURFACE OF LIFTS TO PROVIDE A ROUGH SURFACE FOR PLACING SUBSEQUENT LIFTS. ALLOW EACH LIFT TO REACH FINAL SET BEFORE PLACING SUBSEQUENT LIFTS.
- FINISHING: ALLOW SURFACES OF LIFTS THAT ARE TO REMAIN EXPOSED TO BECOME FIRM AND THEN FINISH TO A SURFACE MATCHING ADJACENT CONCRETE.
- CURING: WET-CURE CEMENTITIOUS PATCHING MATERIALS, INCLUDING POLYMER-MODIFIED CEMENTITIOUS PATCHING MATERIALS, FOR NOT LESS THAN SEVEN DAYS BY WATER-FOG SPRAY OR WATER-SATURATED ABSORPTIVE COVER.

#### 2.6 FLOOR-JOINT REPAIR

- CUT OUT DETERIORATED CONCRETE AND RECONSTRUCT SIDES OF JOINT WITH PATCHING MORTAR AS INDICATED ON DRAWINGS. INSTALL JOINT FILLER IN NONMOVING FLOOR JOINTS WHERE INDICATED AND AS SPECIFIED IN THIS ARTICLE.
- DEPTH: INSTALL JOINT FILLER TO A DEPTH OF AT LEAST 1 INCH. USE FINE SILICA SAND NO MORE THAN 1/4 INCH-DEEP TO CLOSE BASE OF JOINT. DO NOT USE SEALANT BACKER RODS OR COMPRESSIBLE FILLERS BELOW JOINT FILLER.
- TOP SURFACE: INSTALL JOINT FILLER SO THAT WHEN CURED, IT IS FLUSH AT TOP SURFACE OF ADJACENT CONCRETE. IF NECESSARY, OVERFILL JOINT AND REMOVE EXCESS WHEN FILLER HAS CURED.

#### 2.7 EPOXY CRACK INJECTION

- CLEAN CRACKS WITH OIL-FREE COMPRESSED AIR OR LOW-PRESSURE WATER TO REMOVE LOOSE PARTICLES.
- CLEAN AREAS TO RECEIVE CAPPING ADHESIVE OF OIL, DIRT, AND OTHER SUBSTANCES THAT WOULD INTERFERE WITH BOND.
- PLACE INJECTION PORTS AS RECOMMENDED BY EPOXY MANUFACTURER, SPACING NO FARTHER APART THAN THICKNESS OF MEMBER BEING INJECTED. SEAL INJECTION PORTS IN PLACE WITH CAPPING ADHESIVE.
- SEAL CRACKS AT EXPOSED SURFACES WITH A RIBBON OF CAPPING ADHESIVE AT LEAST 1/4-INCH-THICK BY 1 INCH WIDER THAN CRACK.
- INJECT CRACKS WIDER THAN 0.003 INCH TO A DEPTH OF 8 INCHES.
- INJECT EPOXY ADHESIVE, BEGINNING AT WIDEST PART OF CRACK AND WORKING TOWARD NARROWER PARTS. INJECT ADHESIVE INTO PORTS TO REFUSAL, CAPPING ADJACENT PORTS WHEN THEY EXTRUDE EPOXY. CAP INJECTED PORTS AND INJECT THROUGH ADJACENT PORTS UNTIL CRACK IS FILLED.
- AFTER EPOXY ADHESIVE HAS SET, REMOVE INJECTION PORTS AND GRIND SURFACES EPOXY.



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APPROVALS:  
Job No.: 23181-0285  
Project Manager: R. SAVONA  
Drawn: CAD  
Reviewed: Principal  
Design Check: Drafting/CAD  
Date: 7/25/2024  
Scale: AS NOTED

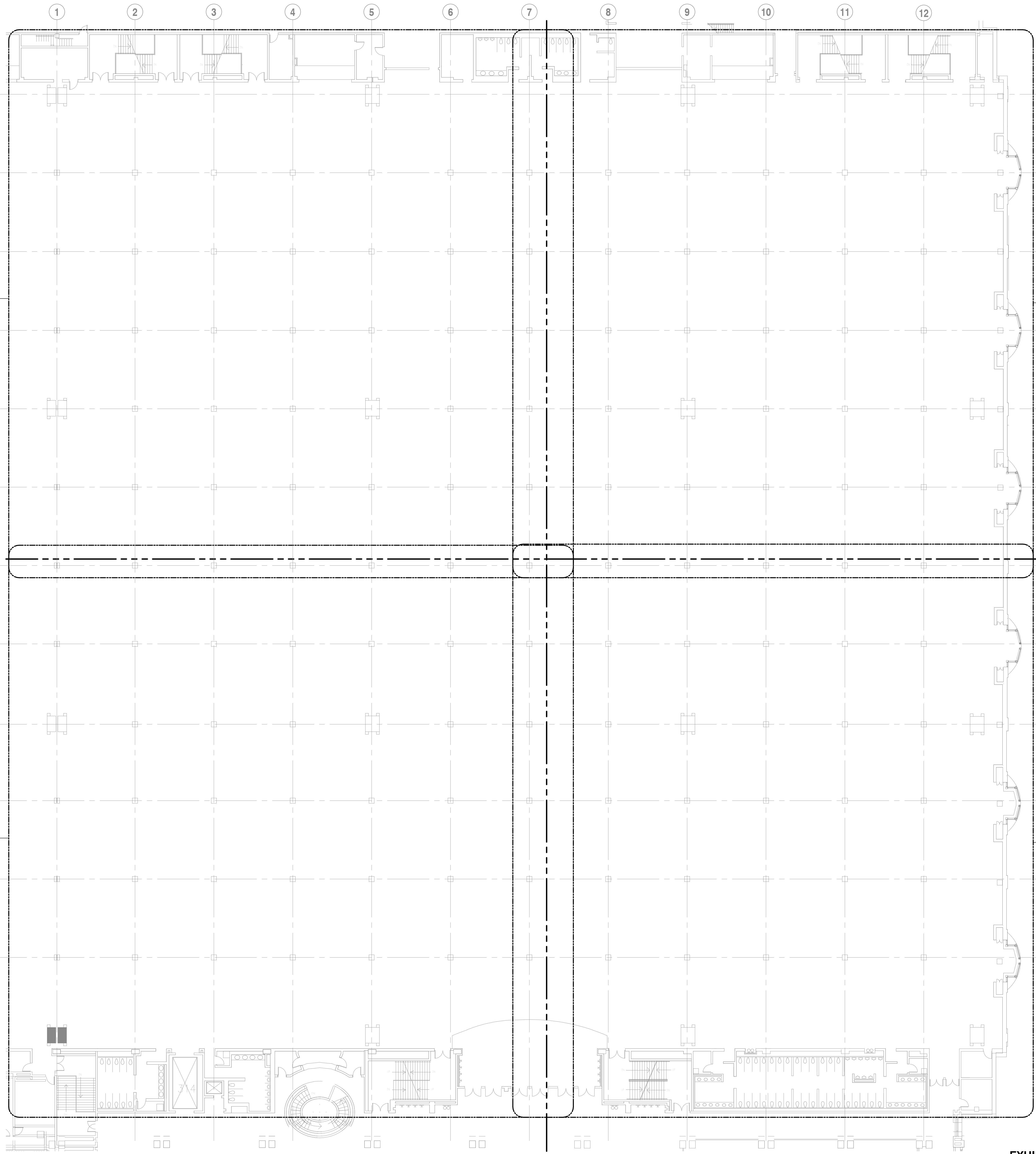
PCC - EXHIBIT HALL A  
1101 ARCH ST, PHILADELPHIA, PA 19107

PROJECT TITLE:  
SHEET TITLE:  
GENERAL NOTES

SHEET NO.  
**S002**

7/25/2024  
3:56:52 PM

DCI PROJECT: 23181-0285  
CONTACT: R. SAVONA



**OVERALL PLAN NOTES:**  
 THIS SHEET REFLECTS THE OVERALL LAYOUT OF EXHIBIT HALL A AND IS NOT MEANT TO BE USED FOR DETERMINATION OF SCOPE OF WORK. SEE LARGER PARTIAL PLANS ON THE FOLLOWING SHEETS FOR EXISTING SLAB CONDITIONS, DEFICIENCIES, AND REQUIRED REPAIR METHODS.

SEE SHEET S102 FOR  
 REQUIRED REPAIR  
 INFORMATION

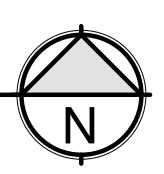
SEE SHEET S103 FOR  
 REQUIRED REPAIR  
 INFORMATION

SEE SHEET S105 FOR  
 REQUIRED REPAIR  
 INFORMATION

SEE SHEET S104 FOR  
 REQUIRED REPAIR  
 INFORMATION

**EXHIBIT HALL A - OVERALL PLAN**

SCALE: 1/16" = 1'-0"



**7/25/2024**  
**3:56:52 PM**

DCI PROJECT: 23181-0285  
 CONTACT: R. SAVONA

SHEET NO.  
**S101**

PROJECT TITLE:

**PCC - EXHIBIT HALL A**  
**1101 ARCH ST, PHILADELPHIA, PA 19107**

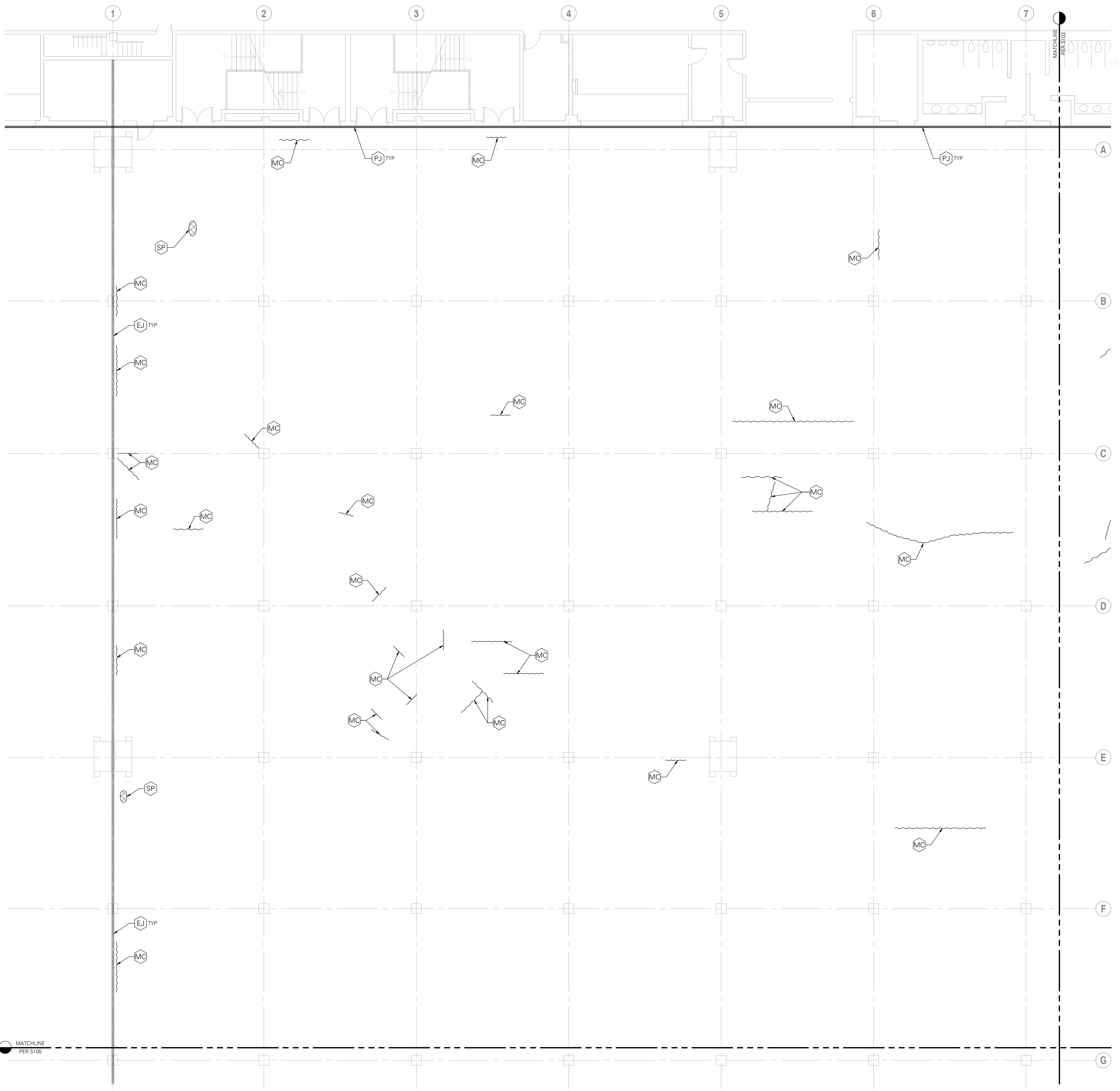
SHEET TITLE:  
**EXHIBIT HALL A -  
 OVERALL PLAN**

APPROVALS:  
 Job No.: 23181-0285  
 Proj. Manager: R. SAVONA  
 Drawn: CAD  
 Reviewed: Principal  
 Dwg. Chk.: Drafting OC  
 Date: 7/25/23  
 Scale: AS NOTED

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PREPARED BY:  
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**CIVIL / STRUCTURAL**  
 The Pennsylvania State Board of Professional Engineers, Architects, and Surveyors is hereby notified that this seal was issued to the undersigned on 07/25/23.



- PARTIAL PLAN NOTES:**
1. CONCRETE CRACKS AND SPALLS SHOWN INDICATE GENERAL LOCATION AND SIZE. CONTRACTOR TO VERIFY IN FIELD AS NEEDED.
  2. SEE ARCHITECTURAL SPECIFICATIONS FOR CLEANING AND SURFACE APPLICATION OF A PROTECTIVE COATING.

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 Date: 7/25/2024  
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PROJECT TITLE:  
**PCC - EXHIBIT HALL A**  
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REPAIR KEY SCHEDULE					
MARK	MC	SP	PJI	MPR	EJI
REPAIR TYPE	MODERATE CRACK REPAIR	SPALL REPAIR	PERIMETER JOINT REPAIR	MASONRY BLOCK REPAIR	EXPANSION JOINT REPAIR
DETAIL(S)	REF DETAIL 3/S501	REF DETAIL 1/S501		REF DETAIL 4/S501	REF DETAIL 2/S501
REPAIR METHODOLOGY (ABRIDGED) SEE SHEET S202 FOR FULL SPECS	ROUTE OUT CRACKS TO MINIMUM 1/4" AND SEAL WITH APPROVED SEALANT PER SPEC SECTIONS 1.5 & 2.7 AND MFR REQUIREMENTS	REMOVE LOOSE MATERIAL BACK TO SOUND CONCRETE AND PATCH WITH A POLYMER-MODIFIED CEMENTITIOUS PATCH MORTAR AS PER SPEC SECTIONS 1.3, 2.4 & 2.5	REMOVE AND REPLACE W/ SIKA EMSEAL DSM PER MFR REQUIREMENTS MATCH EXISTING CONSTRUCTION IN FIELD, VIF	REMOVE ALL DAMAGED BLOCK AND INSTALL NEW CMU GROUTED SOLID TO MATCH EXISTING CONDITIONS	REPAIR DETERIORATED EXPANSION JOINT W/APPROVED SEALANT PER SPEC SECTION 1.4 & 2.6 AND MFR REQUIREMENTS

LEGEND	
	INDICATES SPALLING
	INDICATES MODERATE CRACKS
	INDICATES SEVERE CRACKS
	INDICATES DETERIORATED JOINT SEALANT

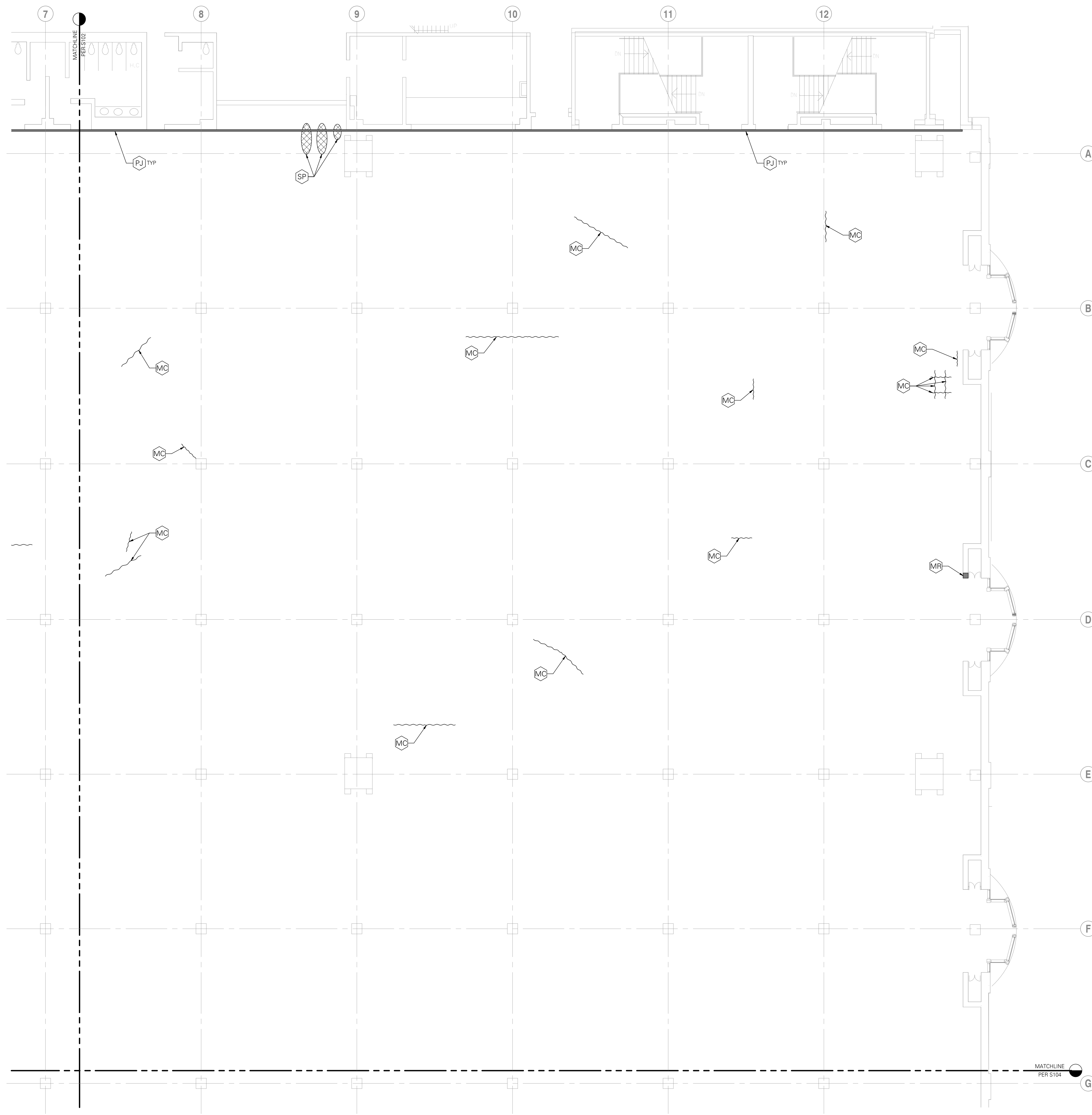
PARTIAL EXHIBIT HALL A PLAN - AREA A  
 SCALE: 1/8" = 1'-0"

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DCI PROJECT: 23181-0285  
 CONTACT: R. SAVONA

SHEET TITLE:  
 PARTIAL EXHIBIT HALL A PLAN - AREA A

SHEET NO.  
**S102**



- PARTIAL PLAN NOTES:**
- CONCRETE CRACKS AND SPALLS SHOWN INDICATE GENERAL LOCATION AND SIZE. CONTRACTOR TO VERIFY IN FIELD AS NEEDED.
  - SEE ARCHITECTURAL SPECIFICATIONS FOR CLEANING AND SURFACE APPLICATION OF A PROTECTIVE COATING.

REPAIR KEY SCHEDULE					
MARK	MC	SP	PJ	MFR	EJ
REPAIR TYPE	MODERATE CRACK REPAIR	SPALL REPAIR	PERIMETER JOINT REPAIR	MASONRY BLOCK REPAIR	EXPANSION JOINT REPAIR
DETAIL(S)	REF DETAIL 3/S501	REF DETAIL 1/S501		REF DETAIL 4/S501	REF DETAIL 2/S501
REPAIR METHODOLOGY (ABRIDGED) SEE SHEET S202 FOR FULL SPECS	ROUTE OUT CRACKS TO MINIMUM 1/4" AND SEAL WITH APPROVED SEALANT PER SPEC SECTIONS 1.5 & 2.7 AND MFR REQUIREMENTS	REMOVE LOOSE MATERIAL BACK TO SOUND CONCRETE AND PATCH WITH A POLYMER-MODIFIED CEMENTITIOUS PATCH MORTAR AS PER SPEC SECTIONS 1.3, 2.4 & 2.5	REMOVE AND REPLACE W/ SIKA EMSEAL DSM PER MFR REQUIREMENTS MATCH EXISTING CONSTRUCTION IN FIELD, VIF	REMOVE ALL DAMAGED BLOCK AND INSTALL NEW CMU GROUTED SOLID TO MATCH EXISTING CONDITIONS	REPAIR DETERIORATED EXPANSION JOINT W/APPROVED SEALANT PER SPEC SECTION 1.4 & 2.6 AND MFR REQUIREMENTS

LEGEND	
	INDICATES SPALLING
	INDICATES MODERATE CRACKS
	INDICATES SEVERE CRACKS
	INDICATES DETERIORATED JOINT SEALANT

PARTIAL EXHIBIT HALL A PLAN - AREA B  
SCALE: 1/8" = 1'-0"

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CONTACT: R. SAVONA

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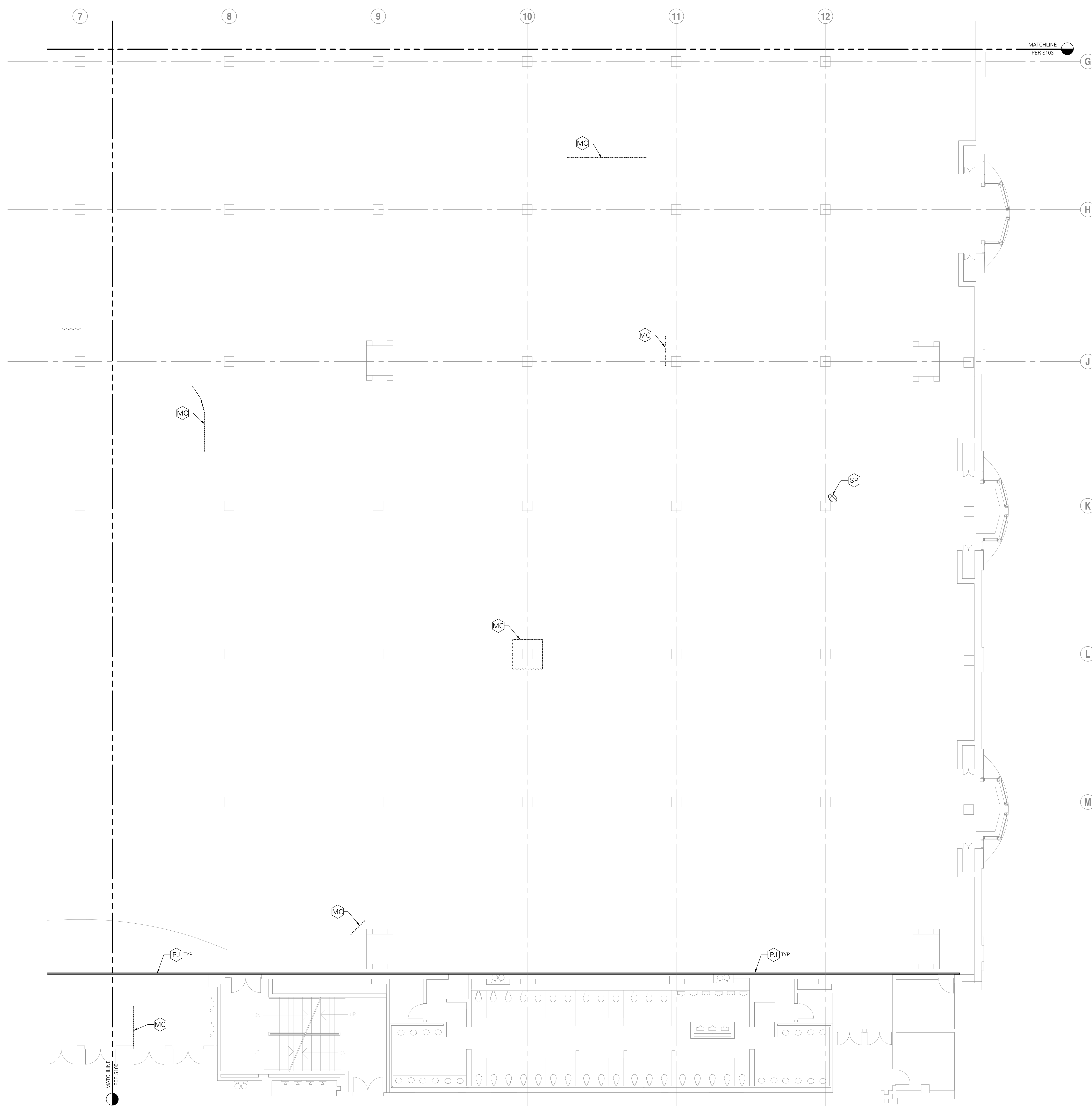
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Job No.: 23181-0285  
Proj. Manager: R. SAVONA  
Drawn: CAD  
Reviewed: Principal  
Dwg. Chk.: Drafting OC  
Date: 12/21/23  
Scale: AS NOTED

PROJECT TITLE:  
**PCC - EXHIBIT HALL A**  
1101 ARCH ST, PHILADELPHIA, PA 19107

SHEET TITLE:  
**PARTIAL EXHIBIT HALL A PLAN - AREA B**

SHEET NO.  
**S103**





- PARTIAL PLAN NOTES:**
1. CONCRETE CRACKS AND SPALLS SHOWN INDICATE GENERAL LOCATION AND SIZE. CONTRACTOR TO VERIFY IN FIELD AS NEEDED.
  2. SEE ARCHITECTURAL SPECIFICATIONS FOR CLEANING AND SURFACE APPLICATION OF A PROTECTIVE COATING.

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 Reviewed: Principal  
 Dwg. Chk.: Drafting OC  
 Date: 12/21/23  
 Scale: AS NOTED

PROJECT TITLE:  
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REPAIR KEY SCHEDULE					
MARK	MC	SP	PJ	MR	EJ
REPAIR TYPE	MODERATE CRACK REPAIR	SPALL REPAIR	PERIMETER JOINT REPAIR	MASONRY BLOCK REPAIR	EXPANSION JOINT REPAIR
DETAIL(S)	REF DETAIL 3/S501	REF DETAIL 1/S501		REF DETAIL 4/S501	REF DETAIL 2/S501
REPAIR METHODOLOGY (ABRIDGED) SEE SHEET S002 FOR FULL SPECS	ROUTE OUT CRACKS TO MINIMUM 1/4" AND SEAL WITH APPROVED SEALANT PER SPEC SECTIONS 1.5 & 2.7 AND MFR REQUIREMENTS	REMOVE LOOSE MATERIAL BACK TO SOUND CONCRETE AND PATCH WITH A POLYMER-MODIFIED CEMENTITIOUS PATCH MORTAR AS PER SPEC SECTIONS 1.3, 2.4 & 2.5	REMOVE AND REPLACE W/ SIKA EMSEAL DSM PER MFR REQUIREMENTS MATCH EXISTING CONSTRUCTION IN FIELD, VIF	REMOVE ALL DAMAGED BLOCK AND INSTALL NEW CMU GROUTED SOLID TO MATCH EXISTING CONDITIONS	REPAIR DETERIORATED EXPANSION JOINT W/APPROVED SEALANT PER SPEC SECTION 1.4 & 2.6 AND MFR REQUIREMENTS

LEGEND	
	INDICATES SPALLING
	INDICATES MODERATE CRACKS
	INDICATES SEVERE CRACKS
	INDICATES DETERIORATED JOINT SEALANT

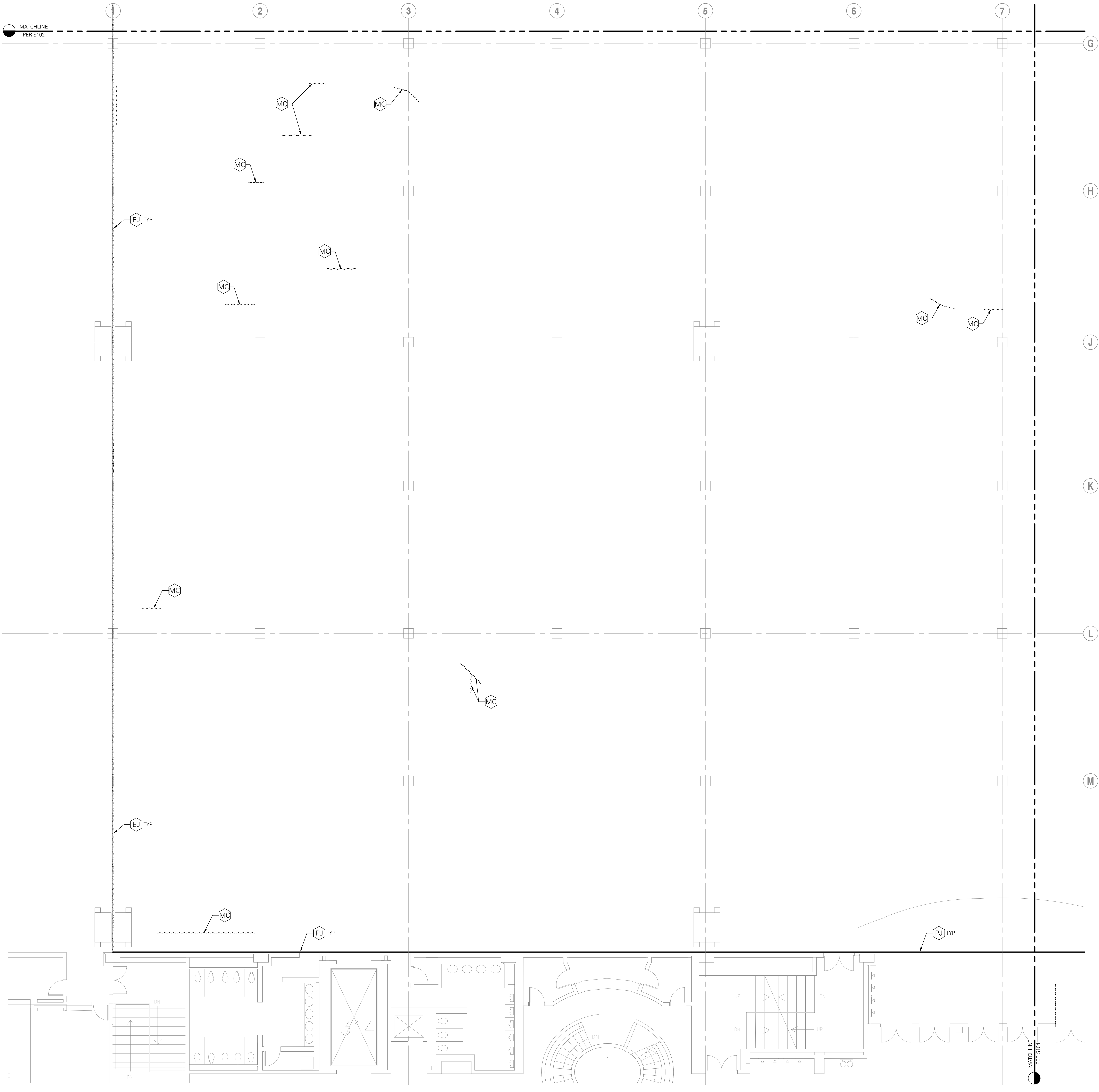
PARTIAL EXHIBIT HALL A PLAN - AREA C  
 SCALE: 1/8" = 1'-0"

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 CONTACT: R. SAVONA

SHEET TITLE:  
 PARTIAL EXHIBIT HALL A PLAN - AREA C

SHEET NO.  
**S104**

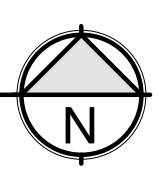


- PARTIAL PLAN NOTES:**
- CONCRETE CRACKS AND SPALLS SHOWN INDICATE GENERAL LOCATION AND SIZE. CONTRACTOR TO VERIFY IN FIELD AS NEEDED.
  - SEE ARCHITECTURAL SPECIFICATIONS FOR CLEANING AND SURFACE APPLICATION OF A PROTECTIVE COATING.

REPAIR KEY SCHEDULE					
MARK	MC	SP	PJ	MR	EJ
REPAIR TYPE	MODERATE CRACK REPAIR	SPALL REPAIR	PERIMETER JOINT REPAIR	MASONRY BLOCK REPAIR	EXPANSION JOINT REPAIR
DETAILS	REF DETAIL 3/SS01	REF DETAIL 1/SS01		REF DETAIL 4/SS01	REF DETAIL 2/SS01
REPAIR METHODOLOGY (ABRIDGED) SEE SHEET S002 FOR FULL SPECS	ROUTE OUT CRACKS TO MINIMUM 1/4" AND SEAL WITH APPROVED SEALANT PER SPEC SECTIONS 1.5 & 2.7 AND MFR REQUIREMENTS	REMOVE LOOSE MATERIAL BACK TO SOUND CONCRETE AND PATCH WITH A POLYMER-MODIFIED CEMENTITIOUS PATCH MORTAR AS PER SPEC SECTIONS 1.3, 2.4, & 2.5	REMOVE AND REPLACE W/ SIKA EMSEAL DSM PER MFR REQUIREMENTS MATCH EXISTING CONSTRUCTION IN FIELD, VIF	REMOVE ALL DAMAGED BLOCK AND INSTALL NEW CMU (GROUTED SOLID) TO MATCH EXISTING CONDITIONS	REPAIR DETERIORATED EXPANSION JOINT W/APPROVED SEALANT PER SPEC SECTION 1.4 & 2.6 AND MFR REQUIREMENTS

LEGEND	
	INDICATES SPALLING
	INDICATES MODERATE CRACKS
	INDICATES SEVERE CRACKS
	INDICATES DETERIORATED JOINT SEALANT

**PARTIAL EXHIBIT HALL A PLAN - AREA D**  
SCALE: 1/8" = 1'-0"



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CONTACT: R. SAVONA

PREPARED BY:

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APPROVALS:

Job No.: 23181-0285  
Proj. Manager: R. SAVONA  
Drawn: CAD  
Reviewed: Principal  
Dwg. Chk.: Drafting OC  
Date: 7/25/23  
Scale: AS NOTED

PROJECT TITLE:

**PCC - EXHIBIT HALL A**  
**1101 ARCH ST, PHILADELPHIA, PA 19107**

SHEET TITLE:  
**PARTIAL EXHIBIT HALL A PLAN - AREA D**

SHEET NO.  
**S105**

