

CITY OF BATTLE CREEK BATTLE CREEK EXECUTIVE AIRPORT - ATCT REHAB

15551 SOUTH AIRPORT ROAD

BATTLE CREEK, MI, 49015

PROJECT No.: 0228800-240589.01

AIP NO.: TBD

PROJECT LOCATION
AIR TRAFFIC CONTROL TOWER



SHEET INDEX

GENERAL	
G-001	COVER SHEET
G-080	CONSTRUCTION SAFETY PHASING PLAN
G-081	CONSTRUCTION SAFETY PHASING NOTES
RESTORATION	
R-001	GENERAL RESTORATION NOTES, REQUIREMENTS, AND WORK ITEM SCHEDULE
R-201	NORTH AND WEST ELEVATIONS
R-202	SOUTH AND EAST ELEVATIONS
R-501	WALL SECTION AND DETAILS
EQUIPMENT	
EOD101	CAB LEVEL PLAN (DEMO)
EQ-101	CAB LEVEL PLAN

Mead
& Hunt

Mead & Hunt, Inc.
2440 Deming Way
Middleton, WI 53562
phone: 608-273-6380
meadhunt.com

© Copyright 2024 Mead & Hunt, Inc.
This document, or any portion thereof, shall
not be duplicated, disclosed, or used on any
other project or extension of this project
except by written agreement with Mead &
Hunt, Inc. Mead & Hunt shall not be
responsible for any unauthorized use of, or
alteration to these documents.



CITY OF BATTLE CREEK
BATTLE CREEK EXECUTIVE
AIRPORT - ATCT REHAB
15551 SOUTH AIRPORT ROAD
BATTLE CREEK, MI, 49015

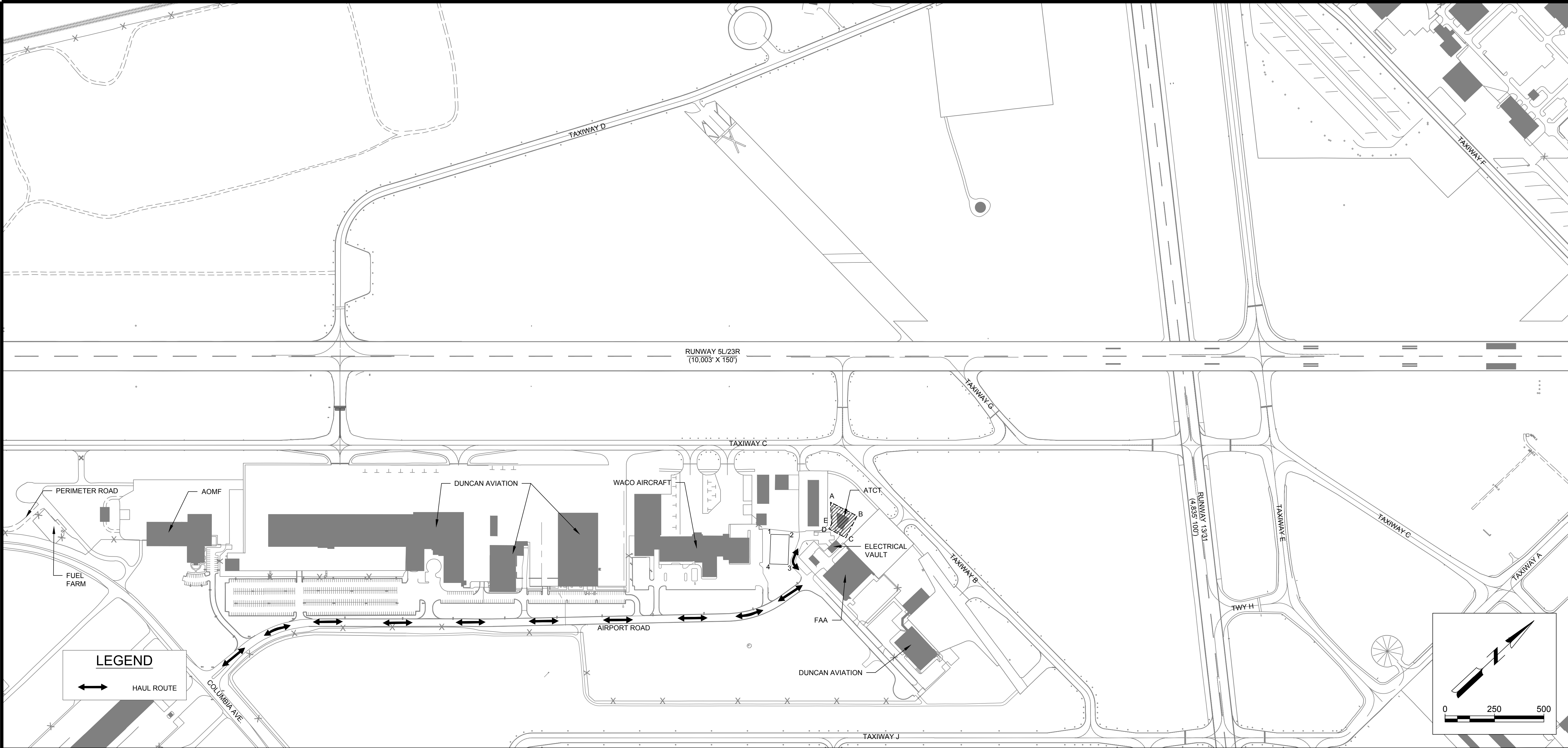
ISSUED
05/31/24 ISSUED FOR BID

AIP NO.: TBD
M&H NO.: 0228800-240589.01
DATE: MAY 31, 2024
DESIGNED BY: NJB
DRAWN BY: NJB
CHECKED BY: TJC
DO NOT SCALE DRAWINGS

SHEET CONTENTS
COVER SHEET

SHEET NO.:

G-001



PHASE	CONSTRUCTION	AFFECTED ACTIVE OPERATION AREAS (AOA'S)	WORK HOURS	SAFETY AND SECURITY	CONTRACT COMPLETION DATES
1	COMPLETE AIR TRAFFIC CONTROL TOWER REHABILITATION.	- NONE	7:00 A.M. - 5:00 P.M.	CONTRACTOR SHALL COORDINATE WITH ENGINEER AND AIRPORT 30 DAYS PRIOR TO STARTING CONSTRUCTION. AIRPORT MANAGER SHALL ISSUE ALL NOTAMS. MAXIMUM EQUIPMENT HEIGHT SHALL BE 25' UNLESS OTHERWISE NOTED.	SUBSTANTIAL COMPLETION: AUGUST 1ST, 2025 FINAL COMPLETION: SEPTEMBER 1ST, 2025

SAFETY PHASING NOTE:

- ALL COST ASSOCIATED WITH WORK SHOWN ON G-080-G-081 SHALL BE INCLUDED IN THE CONTRACTORS BID.
- ACCESS SHALL BE AS SHOWN ABOVE ONLY, UNLESS GIVEN WRITTEN PERMISSION FROM THE AIRPORT OR ENGINEER. ANY WORK NECESSARY TO IMPROVE THE STAGING AREA SITE FOR THE CONTRACTOR OPERATIONS SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL COORDINATE ALL UTILITY OUTAGES/SHUTDOWNS WITH THE APPROPRIATE UTILITY OWNER AND AIRPORT A MINIMUM OF 14 DAYS PRIOR TO REQUESTED WORK.
- IF REQUESTED BY THE AIRPORT, THE CONTRACTOR'S EMPLOYEES THAT INTEND TO WORK ON SITE SHALL OBTAIN A VALID AIRPORT BADGE AND COMPLETE THE NECESSARY AIRPORT SAFETY TRAINING PROGRAM.
- THE MAX EQUIPMENT HEIGHT SHOWN IS BASED ON THE MAXIMUM TOWER HEIGHT. WORK SHALL BE COMPLETED WITH THE USE OF A SWING STAGE (SUSPENDED SCAFFOLDING). THE CONTRACTOR SHALL MAINTAIN ALL EQUIPMENT BELOW THE TOP OF THE ATCT TOWER AND EXISTING OBSTRUCTION LIGHTING. THE ATCT OPERATOR LINE OF SIGHT TO ALL PORTIONS OF THE AIRFIELD SHALL NOT BE OBSTRUCTED, BLOCKED, OR OTHERWISE IMPACTED AT ANY TIME.

CONSTRUCTION AREA COORDINATES (MAX EQUIPMENT HEIGHT 135')*				
CORNER	LATITUDE	LONGITUDE	GROUND ELEVATION	
A	N42° 18' 19.81"	W85° 15' 00.60"	926'	
B	N42° 18' 20.33"	W85° 14' 58.72"	927'	
C	N42° 18' 19.18"	W85° 14' 58.15"	927'	
D	N42° 18' 18.85"	W85° 14' 59.35"	926'	
E	N42° 18' 19.12"	W85° 14' 59.49"	926'	

* DENOTES SURVEY ACCURACY OF 1A PER FAA ORDER 8260.19I, APPENDIX C.

CONTRACTOR STAGING AREA COORDINATES (MAX EQUIPMENT HEIGHT 25')*			
CORNER	LATITUDE	LONGITUDE	GROUND ELEVATION
1	N42° 18' 16.53"	W85° 15' 01.74"	924'
2	N42° 18' 17.19"	W85° 15' 00.87"	924'
3	N42° 18' 16.15"	W85° 14' 59.46"	923'
4	N42° 18' 15.49"	W85° 15' 00.32"	923'

* DENOTES SURVEY ACCURACY OF 1A PER FAA ORDER 8260.19I, APPENDIX C.

RUNWAY END COORDINATES			
RUNWAY	LATITUDE	LONGITUDE	GROUND ELEVATION
5L	N42° 17' 44.6330"	W85° 15' 57.5229"	951.8'
23R	N42° 18' 57.3726"	W85° 14' 27.4058"	928.4'
13	N42° 18' 51.0068"	W85° 15' 16.5345"	919.8'
31	N42° 18' 22.8575"	W85° 14' 24.5162"	929.4'
5R	N42° 17' 57.9332"	W85° 15' 00.7071"	925.0'
23L	N42° 18' 27.7449"	W85° 14' 23.7712"	930.0'

SAFETY AREA		
ACTIVE OPERATION AREA	SAFETY AREA WIDTH	OBJECT FREE AREA WIDTH
RUNWAY 5L-23R	500'	800'
RUNWAY 13-31	150'	500'
RUNWAY 5R-23L	150'	500'

GENERAL RESTORATION NOTES

GOVERNING CODES & SPECIFICATIONS:

- Michigan Enrolled Commercial Building Code, 2015 Edition
- Latest supplements and revisions, thereto, unless noted otherwise.

DESIGN LOADINGS:

- WIND LOADS:

Components/Cladding30 psf

CONSTRUCTION DOCUMENTS

- Construction Documents entitled "Air Traffic Control Tower - Rehabilitation" includes these drawings and separately bound Specifications. For purposes of performing the work, Drawings and Specifications shall be considered a single unit. In the event of conflict between the Drawings and Specifications contact the Architect/Engineer for clarification.
- The extent of repair areas shown on drawings indicates Architect/Engineer's estimates only. The unit quantities are included in the bid documents are based on the estimated units. The Contractor is responsible for determining the actual extent and locations of repair areas. The actual repair quantities shall be verified and agreed upon by the Engineer prior to commencing the repair work.
- When the plans include information pertaining to preliminary investigations and condition survey, such information represents only the opinion of the Architect/Engineer as to the location, character, or quantity of the materials encountered at the time of the investigation. The Owner and Architect/Engineer make no guarantee that conditions indicated are representative throughout the project or that unanticipated field conditions will not occur.
- Work Items are identified on Drawings. Refer to Specifications, Section 01 10 15 for scopes, description and requirements of work.
- Construction shall be in accordance with all applicable Federal, State of Michigan and City of Battle Creek codes and ordinances, including Fire Codes.
- Where Work Item bubble is noted "TYP" , it means work item occurs at all locations where applicable deterioration or designation symbol occurs on that plan.
- Where "TAR" (Typical As Required) is noted, it means there may be areas of this work in addition to particular designated areas.
- Where two or more Work Item bubbles are grouped together, it means any or all designated Work Item may be applicable. Coordination of Work Items is Contractor's responsibility.
- Where a Work Item or Detail is listed as incidental that work is included in pay unit of other work items and does not have a separate price.
- When a Detail is labeled (For Reference Only) it provides information about incidental work and does not have a pay unit.

COATING OF REINFORCEMENT

- Clean by sand blasting or mechanical grinding all steel to near white and provide protective coating at all existing reinforcement, embedded steel plates, and electrical conduit in repair area to be cast in concrete.
- All new reinforcing steel shall be fusion bonded epoxy.
- Anchoring system for reinforcing stall shall be Hilti "Hit HY-150", or equivalent.

SHORING AND BRACING

- Contractor shall visit the site and become familiar with the existing conditions and the areas that are to be removed from the site.
- Contractor shall bear full responsibility for the design and installation of all temporary shoring, bracing which is required for safety and proper execution of the work as incidental to work, unless noted otherwise.
- Building structural areas which are to be removed, shall be done in a manner which shall maintain the stability of the structure, and shall allow the structure to remain in a safe condition.

EXISTING SERVICES AND UTILITIES

- Contractor shall review all existing conditions to determine all electrical, and mechanical services, and utilities affected by the repair work. Make necessary temporary connections to maintain existing services to all areas of the building or other areas (Not in Contract) affected by the work. The Contractor shall submit the methods and schedule of connections for the Owner's approval prior to commencement.
- Provide minimum 72 hours notice to the Owner prior to any interruptions in utility services.
- Contractor is responsible for determining power requirements for swing stage use and providing adequate temporary power or tying into existing building power supply, if adequate.

CONSTRUCTION PHASING, SEQUENCING AND TRAFFIC MAINTENANCE

- Work sequences and scheduling shall be coordinated with the Owner's Representative and building operations staff.
- Owner will continue to use building during rehabilitation. Contractor must phase and arrange work so as to maintain access and egress to entrances, exits, drives, etc. at all times to all areas that are not under construction.
- Work hours are 8 am - 5 pm, Monday - Friday (Verify with Owner). Contractor shall coordinate any weekend and holiday work with Owner at least 72 hours advance.

MISCELLANEOUS REQUIREMENTS

- The Contractor is responsible for collection and removal of all construction debris on a daily basis, and the site shall be left in a neat and orderly condition, satisfactory to the Owner.
- The Contractor is responsible for protecting all adjacent roof structure, mechanical equipment, landscaping, and other surfaces/items which could be affected by the Work.
- The Contractor is responsible for providing any required security at the work site, sidewalk protection, if required, and barricades. All site related protection, barricades and security shall be coordinated with the Owner.
- The Contractor is responsible for obtaining all required permits, and authorizations prior to beginning the Work.
- The Owner reserves the right to perform other work in conjunction with the project. Coordinate all work with other Contractors.

SPECIFIED REPAIR MATERIALS OR EQUAL:

- PREPACKAGED REPAIR MATERIALS (W/ 3/8" AGGREGATE)

a. Sikacrete 211, Sika Corp., Linderhurst, NJ

b. MasterEmaco S440, BASF Building Systems, Shakopee, MN

c. Form Flo P-38 Repair Mortar, J.E. Tomes & Associates, Blue Island, IL
- EPOXY COATING FOR REINFORCEMENT AND ANCHORS

a. Sika Armatec Rebar Primer, Sika Corp., Linderhurst, NJ

b. MasterEmaco P 124, BASF Building Systems, Shakopee, MN

c. B-1 Rebar Coating, J.E. Tomes & Assoiicates, Blue Island, IL
- STRUCTURAL STEEL NOTES

	FY, psi	ASTM
a. Hollow Structural Sections		
1) Rectangular & Squares	46,000	A500 Grade B
2) Round	42,000	A500 Grade B
b. Steel Pipes	35,000	A53 Grade B
c. Structural Plates, Bars & Angles	36,000	A36
d. Bolts	92,000	A325
e. Anchor Rods	36,000	F1554, Grade 36
f. Welding Electrodes	E70XX	AWS D1.1-YY

- POST-INSTALLED ANCHORS

a. Expansion AnchorsHilti Kwik Bolt III, Unless Noted

b. Adhesive AnchorsHilti HY150-Max SD, Unless Noted
- CONCRETE JOINT SEALANTS

a. Sonolastic NP-2, BASF Building Systems, Shakopee, MN

b. Sikaflex-2c NS, Sika Corp., Linderhurst, NJ

- All repair materials shall be installed in accordance with the manufacturer's recommendation.

GENERAL REQUIREMENTS:

1.1 CONTRACTURAL

- Contractor shall perform the work in accordance with the executed contract with the Owner and these Contract Documents.

1.2 SUMMARY OF WORK

- Project consists of providing all materials, labor, equipment, supervision, and services required to perform repairs to the Battle Creek Air Traffic Control Tower.
- Work Restriction: Conduct construction without disrupting Owner's use of the facility. Contractor shall separate construction work areas from Owner occupied areas - see also article "Temporary Facilities and Controls".

1.3 PROJECT MANAGEMENT AND COORDINATION

- Coordinate construction to ensure efficient and orderly installation of each part of the Work.

1.4 SUBMITTAL PROCEDURES

- Shop Drawings: Submit Project-specific information drawn to scale. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that requires sequential activity.

- No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing.
 - Project consists of providing all materials, labor, equipment, supervision, and services required to perform repairs to the Air Traffic Control Tower.
 - Engineer will not accept submittals without review and stamp by the Contractor.
 - Identify deviations from the Contract Documents.
 - Submit 1 copy in PDF format of each submittal.

1.5 TEMPORARY FACILITIES AND CONTROLS

- Provide storage boxes, and other support facilities as necessary for the work.
- Collect waste daily and when containers are full, legally dispose of waste off-site.
- Standards: Comply with ANSI A10.6, NECA's "Temporary Electrical Facilities." and NFPA 241.
- Barricades, Warning Signs, and Lights: Comply with industry standards, code requirements and applicable laws and regulations of the authorities having jurisdiction for erection of structurally adequate barricades. Provide barriers to prevent pedestrians or vehicles from entering construction work areas. Paint with appropriate colors, and provide graphic signs to inform personnel and public of hazard being protected against. When appropriate and needed provide lighting including red or amber lights.
- Provide temporary environmental controls as required by authorities having jurisdiction including, but not limited to erosion and sediment control, dust control, noise control, and pollution control.

1.6 PRODUCT REQUIREMENTS

- Provide products of same kind from a single source. The term "product" includes the term "materials", "equipment", "system", and similar terms.
- Deliver, store, and handle products using means and methods that will prevent damage, deterioration, and loss, including theft. Comply with manufacturer's written instructions.
- Provide products that comply with the Contract Documents, are undamaged, and are new at the time of installation.

- Provide products complete with accessories, trim, finish, and other devices and components needed for a complete installation and the intended use and effect.
- Select products to comply with all of the following that are applicable.

- Where only a single product or manufacturer is named, provide the item indicated. No substitutions will be permitted.
 - Where two or more products or manufacturers are named, provide one of the items indicated. No substitutions will be permitted.
 - Where products are specified by name, accompanied by the term "available products" or "available manufacturers,"provide one of the named items or comply with provisions for "comparable product" to obtain approval for use of an unnamed product or manufacturer.

1.7 SELECTIVE DEMOLITION REQUIREMENTS

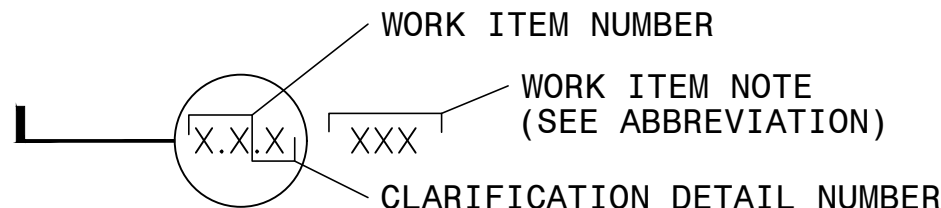
- Unless otherwise indicated, demolished materials become Contractor's property. Remove and dispose of legally from Project site. Do not burn demolished materials.
- Items indicated to be removed and salvaged remain Owner's property. Remove clean, and deliver to Owner's designated area.
- Comply with EPA regulators and disposal regulations of authorities having jurisdiction.
- Conduct demolition without disrupting Owner's use of the building.
- It is not expected that hazardous materials will be encountered in the Work. If materials suspected of containing hazardous materials are encountered , do not disturb; immediately notify Engineer and Owner. Hazardous materials will be removed by Owner.
- Maintain and protect existing utilities to remain in service before proceeding with demolition, providing by pass connections to other parts of the building.
- Locate, identify, shut-off, disconnect, and cap off utility services to be demolished.
- Conduct demolition operations and remove debris to prevent injury to people and damage to adjacent building and site improvements.
- Provide and maintain shoring, bracing, or structural support to preserve building stability and prevent movement, settlement, or collapse.
- Protect building structure and interior from weather and water leakage and damage.
- Protect walls, ceilings, floors, and exposed finishes that are to remain. Erect and maintain full height dustproof partitions. Cover and protect fixtures, furnishings, and equipment that are to remain.
- Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction.
- Promptly patch and repair holes and damaged surfaces of the building caused by demolition. Restore exposed finishes of patched areas and extend finish restoration into remaining adjoining construction.

DRAWING ABBREVIATIONS AND NOTATIONS:

- The following abbreviations and notations may appear on the drawings:

- APPROX = Approximately
- BM = Beam
- CJ = Construction Joint/ Control Joint
- COL = Column
- CONC = Concrete
- DET = Detail
- EA. = Each
- EXIST. = Existing
- FL = Floor
- OH = Opposite Hand
- REINF = Reinforcement
- REQ'D = Required
- SIM = Similar
- SOG = Salb on Grade
- SPEC = Specification
- TAR = Typical as Required
- TYP = Typical
- UN or UNO = Unless Noted Otherwise
- VERT = Vertical
- W.I. = Work Item

WORK ITEM IDENTIFICATION LEGEND



WORK ITEM SCHEDULE

WORK ITEM	DESCRIPTION
60.1	PROJECT MOBILIZATION/GENERAL CONDITIONS
60.2	SCAFFOLDING
70.1	SUPPLEMENTAL WALL ANCHORS
71.1	PRECAST WALL PANEL REPAIR - PARTIAL DEPTH
74.1	JOINT SEALANT REPLACEMENT
74.2	CONTROL JOINT SEALANT REPLACEMENT
74.3	WALL VERTICAL JOINT REPLACEMENT
75.1	WALL EXPANSION JOINT - SILICONE
76.1	EPOXY CRACKS INJECTION
95.1	WINDOW FRAME JOINT SEALANT REPALCEMENT

ALTERNATE 1

91.1	PENETRATING SEALER
------	--------------------

ALTERNATE 2

71.2	CONCRETE SIDEWALK REPAIR - PARTIAL DEPTH
74.4	COVE SEALANT REPLACEMENT
75.1.1	WALL EXPANSION JOINT - PRECOMPRESSED
96.5	RESEAL REGLET FLASHING

Mead & Hunt

Mead and Hunt, Inc.
2440 Deming Way
Middleton, WI 53562
phone: 608-273-6380
meadhunt.com



Specialty Consulting, Inc.
2942 W. Van Buren St.
Chicago, IL 60612
phone: 312-319-7572
www.spc-inc.com

© Copyright 2024 Mead & Hunt, Inc.
This document, or any portion thereof, shall not be duplicated, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.



CITY OF BATTLE CREEK
BATTLE CREEK EXECUTIVE
AIRPORT - ATCT REHAB
15551 SOUTH AIRPORT ROAD
BATTLE CREEK, MI. 49015

ISSUED
05/31/24 ISSUED FOR BID

AIP NO.: TBD
MSH NO.: 0228800-240589.01
DATE: MAY 31,2024
DESIGNED BY: LE
DRAWN BY: LE
CHECKED BY: KNS
DO NOT SCALE DRAWINGS

SHEET CONTENTS

GENERAL RESTORATION
NOTES, REQUIREMENTS,
AND WORK ITEM
SCHEDULE

SHEET NO.

R-001



**CITY OF BATTLE CREEK
BATTLE CREEK EXECUTIVE
AIRPORT - ATCT REHAB**
15551 SOUTH AIRPORT ROAD
BATTLE CREEK, MI. 49015

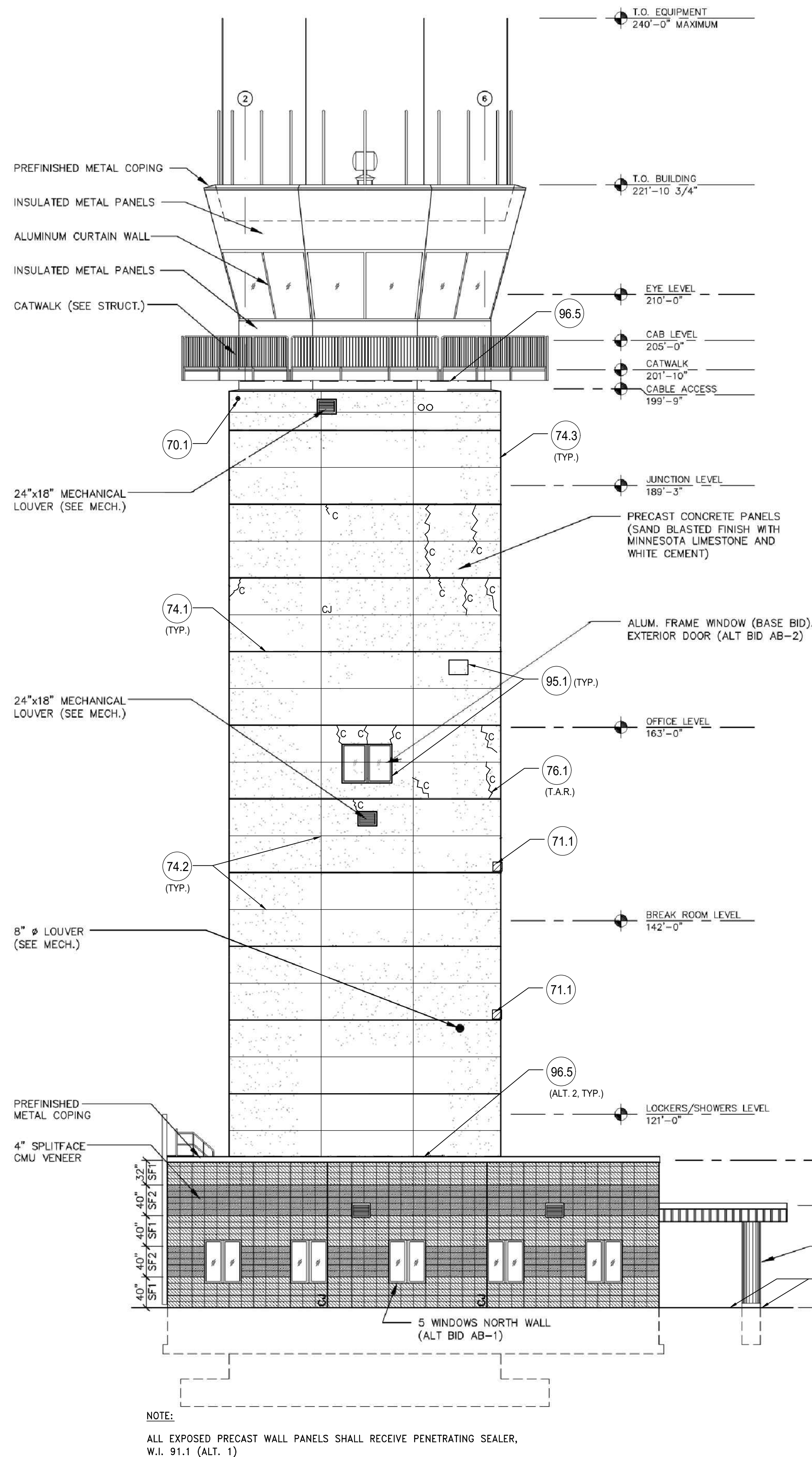
ISSUED
05/31/24 ISSUED FOR BID

AIP NO.: TBD
MSH NO.: 0228800-240589.01
DATE: MAY 31, 2024
DESIGNED BY: LE
DRAWN BY: LE
CHECKED BY: KNS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
NORTH AND WEST ELEVATIONS

SHEET NO.

R-201



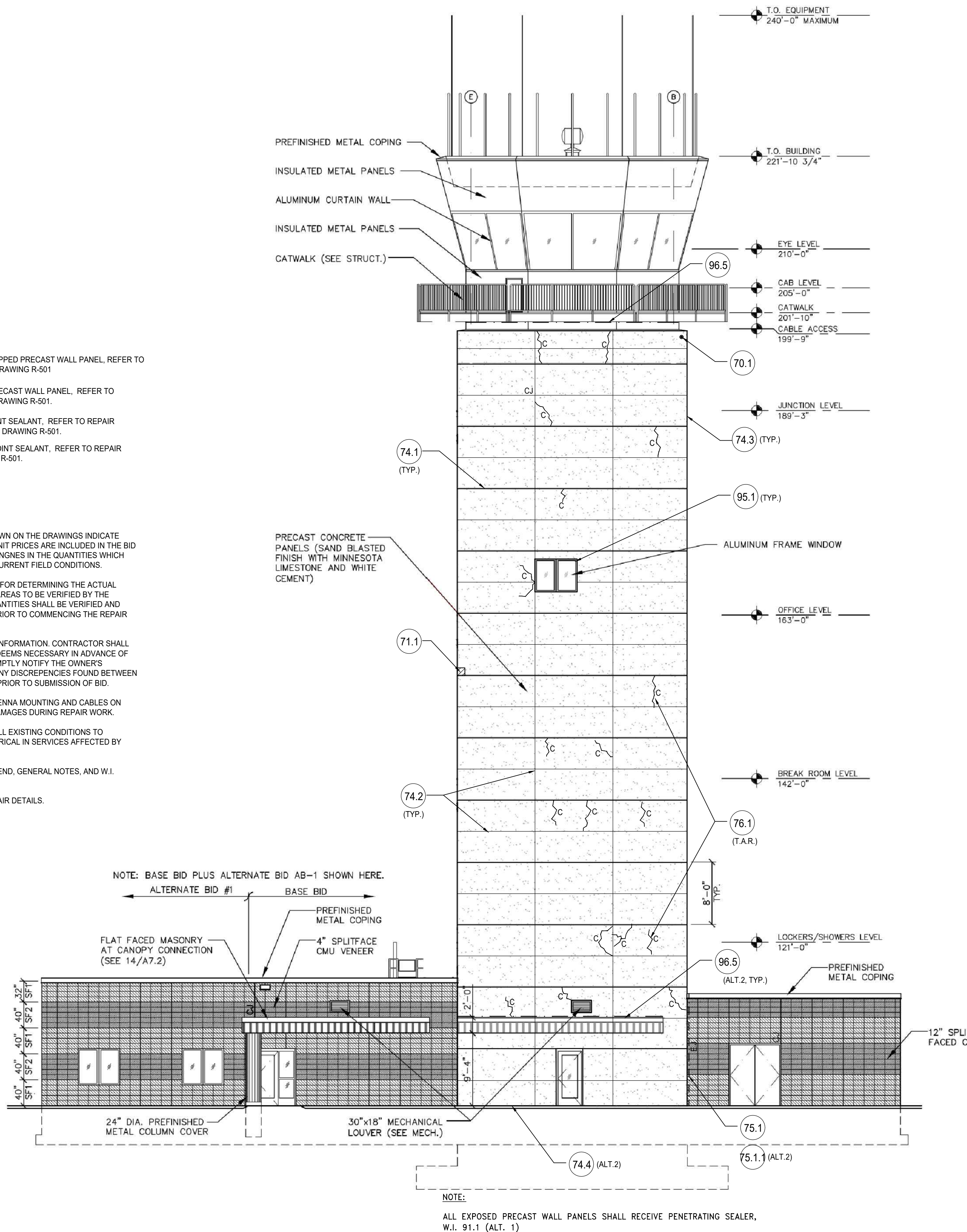
1 NORTH ELEVATION
R-201 SCALE: 1/8"=1'-0"

LEGEND:

- INDICATES SPALLED, CHIPPED PRECAST WALL PANEL, REFER TO REPAIR DETAIL 71.1 ON DRAWING R-501
- INDICATES CRACK ON PRECAST WALL PANEL, REFER TO REPAIR DETAIL 76.1 ON DRAWING R-501.
- INDICATES CONTROL JOINT SEALANT, REFER TO REPAIR DETAILS 74.1 AND 74.2 ON DRAWING R-501.
- INDICATES EXPANSION JOINT SEALANT, REFER TO REPAIR DETAIL 75.1 ON DRAWING R-501.

REPAIR NOTES:

1. THE EXTENT OF REPAIR AREAS SHOWN ON THE DRAWINGS INDICATE ENGINEER'S ESTIMATE ONLY. THE UNIT PRICES ARE INCLUDED IN THE BID DOCUMENTS TO ACCOUNT FOR CHANGES IN THE QUANTITIES WHICH MAY BE NECESSARY BASED UPON CURRENT FIELD CONDITIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXTENT AND LOCATION OF REPAIR AREAS TO BE VERIFIED BY THE ENGINEER. THE ACTUAL REPAIR QUANTITIES SHALL BE VERIFIED AND AGREED UPON BY THE ENGINEER PRIOR TO COMMENCING THE REPAIR WORK.
3. DRAWINGS ARE BASED ON LIMITED INFORMATION. CONTRACTOR SHALL MAKE SUCH INVESTIGATIONS AS IT DEEMS NECESSARY IN ADVANCE OF BIDDING. CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER'S REPRESENTATIVE, IN WRITING, OF ANY DISCREPANCIES FOUND BETWEEN DRAWINGS AND FIELD CONDITIONS PRIOR TO SUBMISSION OF BID.
4. CONTRACTOR SHALL PROTECT ANTENNA MOUNTING AND CABLES ON ROOF AND METAL FASCIAS FROM DAMAGES DURING REPAIR WORK.
5. THE CONTRACTOR SHALL REVIEW ALL EXISTING CONDITIONS TO DETERMINE ALL CABLES AND ELECTRICAL IN SERVICES AFFECTED BY THE REPAIR WORK.
6. REFER TO DRAWING G-001 FOR LEGEND, GENERAL NOTES, AND W.I. SCHEDULE.
7. REFER TO DRAWING R-501 FOR REPAIR DETAILS.



2 WEST ELEVATION
R-201 SCALE: 1/8"=1'-0"



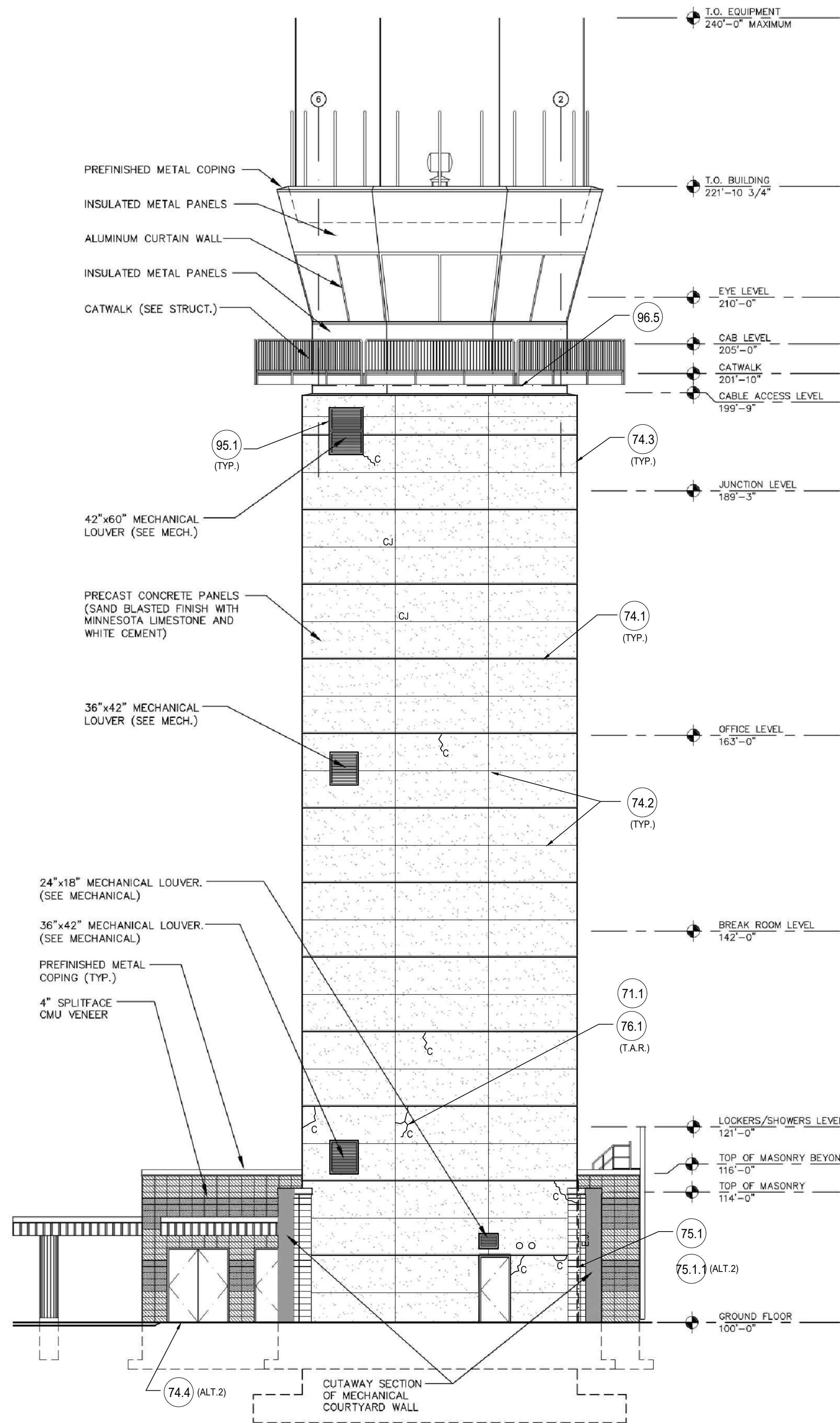
CITY OF BATTLE CREEK
BATTLE CREEK EXECUTIVE
AIRPORT - ATCT REHAB
15551 SOUTH AIRPORT ROAD
BATTLE CREEK, MI. 49015

ISSUED
05/31/24 ISSUED FOR BID

AIP NO.: TBD
MSH NO.: 0228800-240589.01
DATE: MAY 31, 2024
DESIGNED BY: LE
DRAWN BY: LE
CHECKED BY: KNS
DO NOT SCALE DRAWINGS

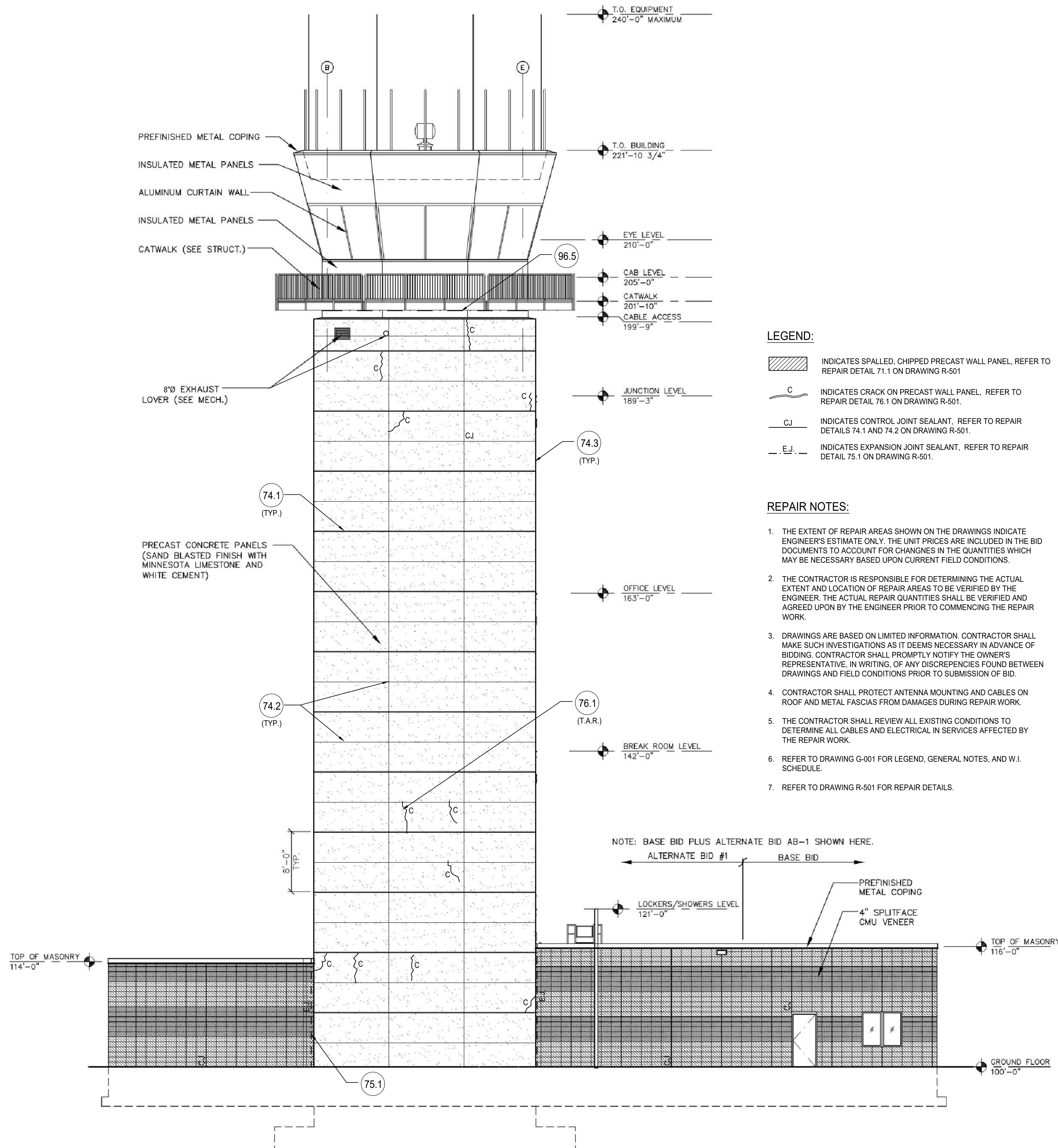
SHEET CONTENTS
SOUTH AND EAST
ELEVATIONS

SHEET NO.



NOTE:
ALL EXPOSED PRECAST WALL PANELS SHALL RECEIVE PENETRATING SEALER, W.I. 91.1. (ALT. 1)

1 SOUTH ELEVATION
R-202 SCALE: 1/8"=1'-0"



NOTE:
ALL EXPOSED PRECAST WALL PANELS SHALL RECEIVE PENETRATING SEALER, W.I. 91.1. (ALT. 1)

2 EAST ELEVATION
R-202 SCALE: 1/8"=1'-0"

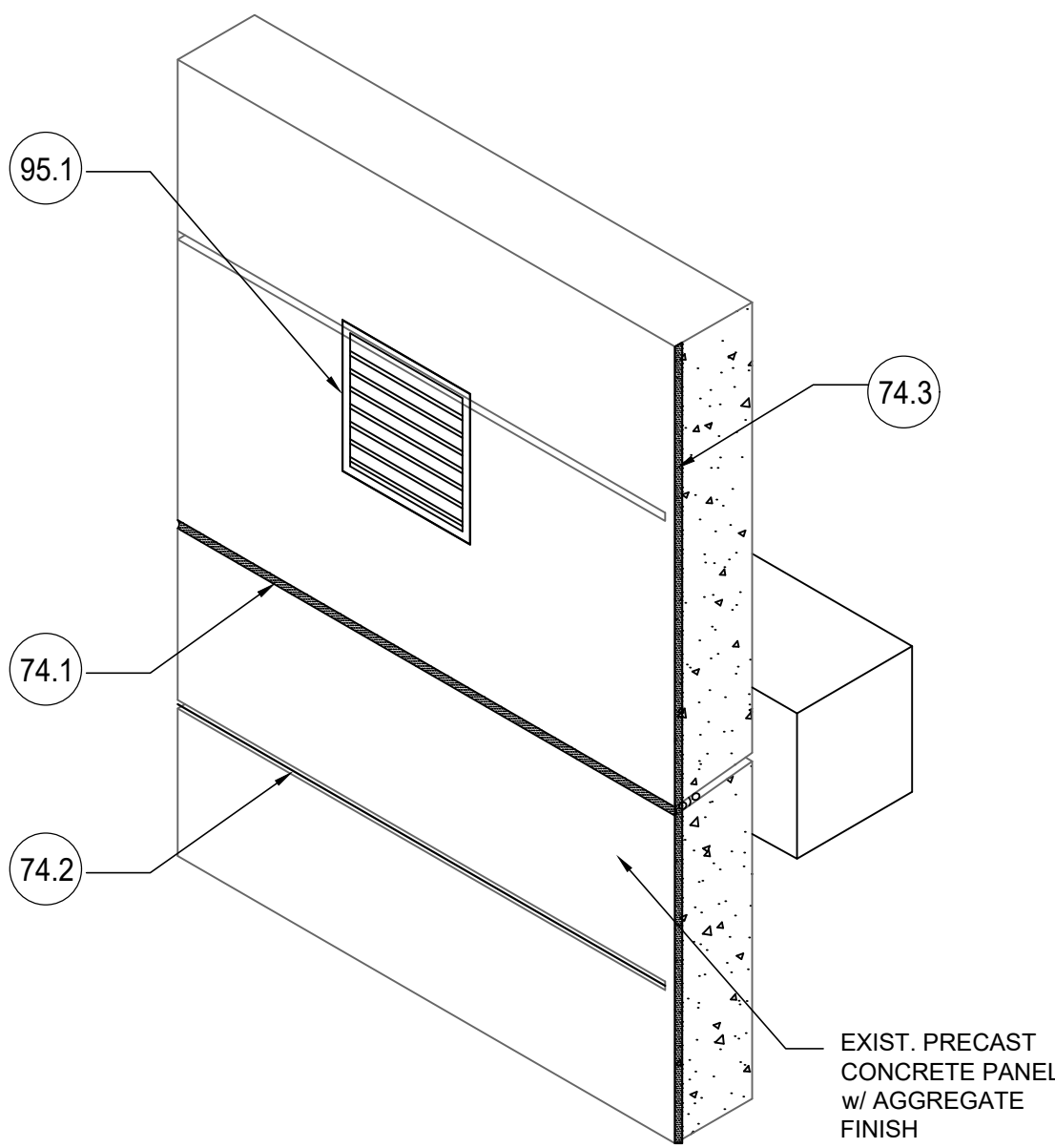
LEGEND:

- INDICATES SPALLED, CHIPPED PRECAST WALL PANEL, REFER TO REPAIR DETAIL 71.1 ON DRAWING R-501
- INDICATES CRACK ON PRECAST WALL PANEL, REFER TO REPAIR DETAIL 76.1 ON DRAWING R-501.
- INDICATES CONTROL JOINT SEALANT, REFER TO REPAIR DETAILS 74.1 AND 74.2 ON DRAWING R-501.
- INDICATES EXPANSION JOINT SEALANT, REFER TO REPAIR DETAIL 75.1 ON DRAWING R-501.

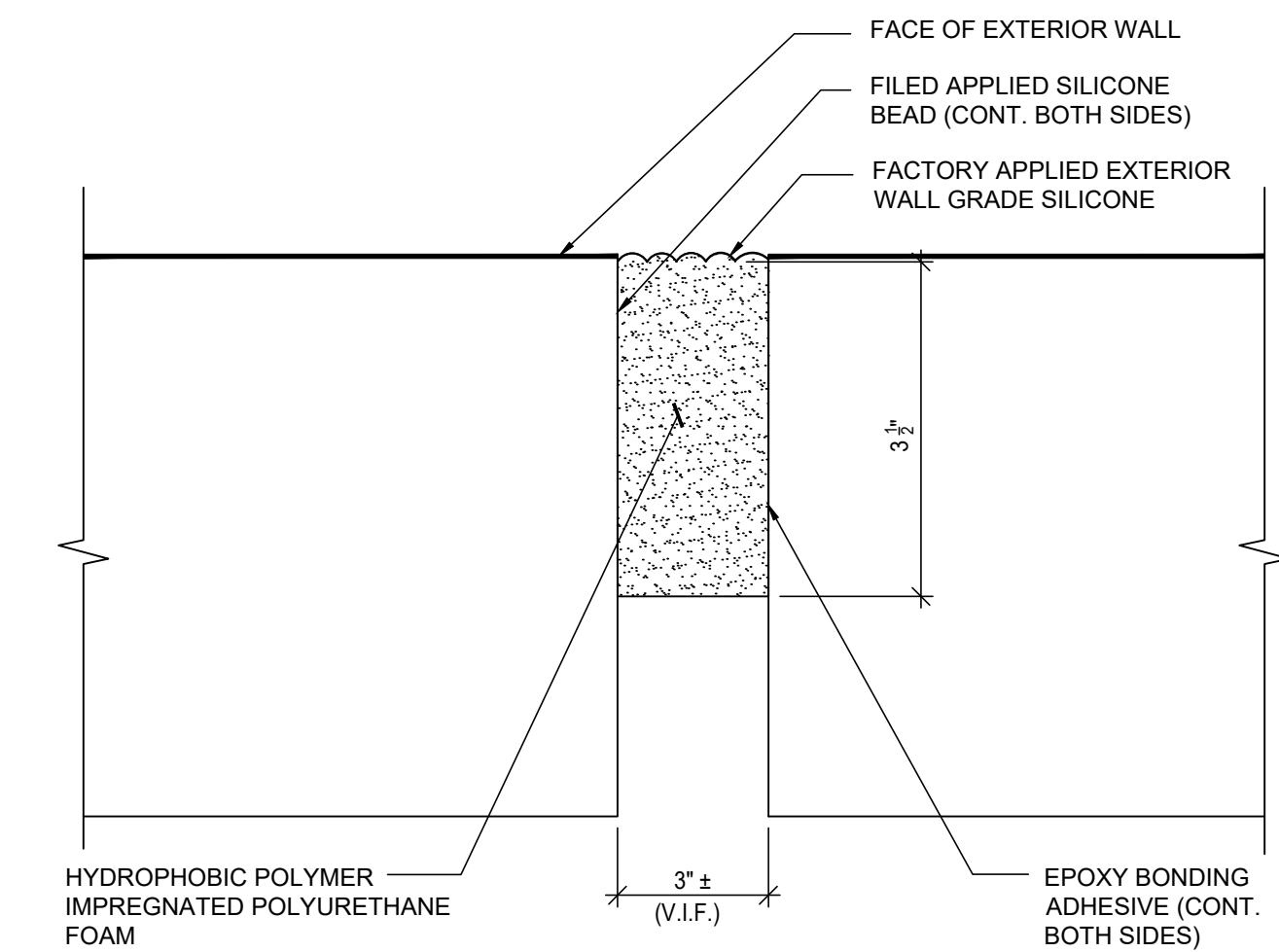
REPAIR NOTES:

- THE EXTENT OF REPAIR AREAS SHOWN ON THE DRAWINGS INDICATE ENGINEER'S ESTIMATE ONLY. THE UNIT PRICES ARE INCLUDED IN THE BID DOCUMENTS TO ACCOUNT FOR CHANGES IN THE QUANTITIES WHICH MAY BE NECESSARY BASED UPON CURRENT FIELD CONDITIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXTENT AND LOCATION OF REPAIR AREAS TO BE VERIFIED BY THE ENGINEER. THE ACTUAL REPAIR QUANTITIES SHALL BE VERIFIED AND AGREED UPON BY THE ENGINEER PRIOR TO COMMENCING THE REPAIR WORK.
- DRAWINGS ARE BASED ON LIMITED INFORMATION. CONTRACTOR SHALL MAKE SUCH INVESTIGATIONS AS IT DEEMS NECESSARY IN ADVANCE OF BIDDING. CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER'S REPRESENTATIVE, IN WRITING, OF ANY DISCREPANCIES FOUND BETWEEN DRAWINGS AND FIELD CONDITIONS PRIOR TO SUBMISSION OF BID.
- CONTRACTOR SHALL PROTECT ANTENNA MOUNTING AND CABLES ON ROOF AND METAL FASCIA FROM DAMAGES DURING REPAIR WORK.
- THE CONTRACTOR SHALL REVIEW ALL EXISTING CONDITIONS TO DETERMINE ALL CABLES AND ELECTRICAL IN SERVICES AFFECTED BY THE REPAIR WORK.
- REFER TO DRAWING G-001 FOR LEGEND, GENERAL NOTES, AND W.I. SCHEDULE.
- REFER TO DRAWING R-501 FOR REPAIR DETAILS.

NOTE: BASE BID PLUS ALTERNATE BID AB-1 SHOWN HERE.
ALTERNATE BID #1 BASE BID

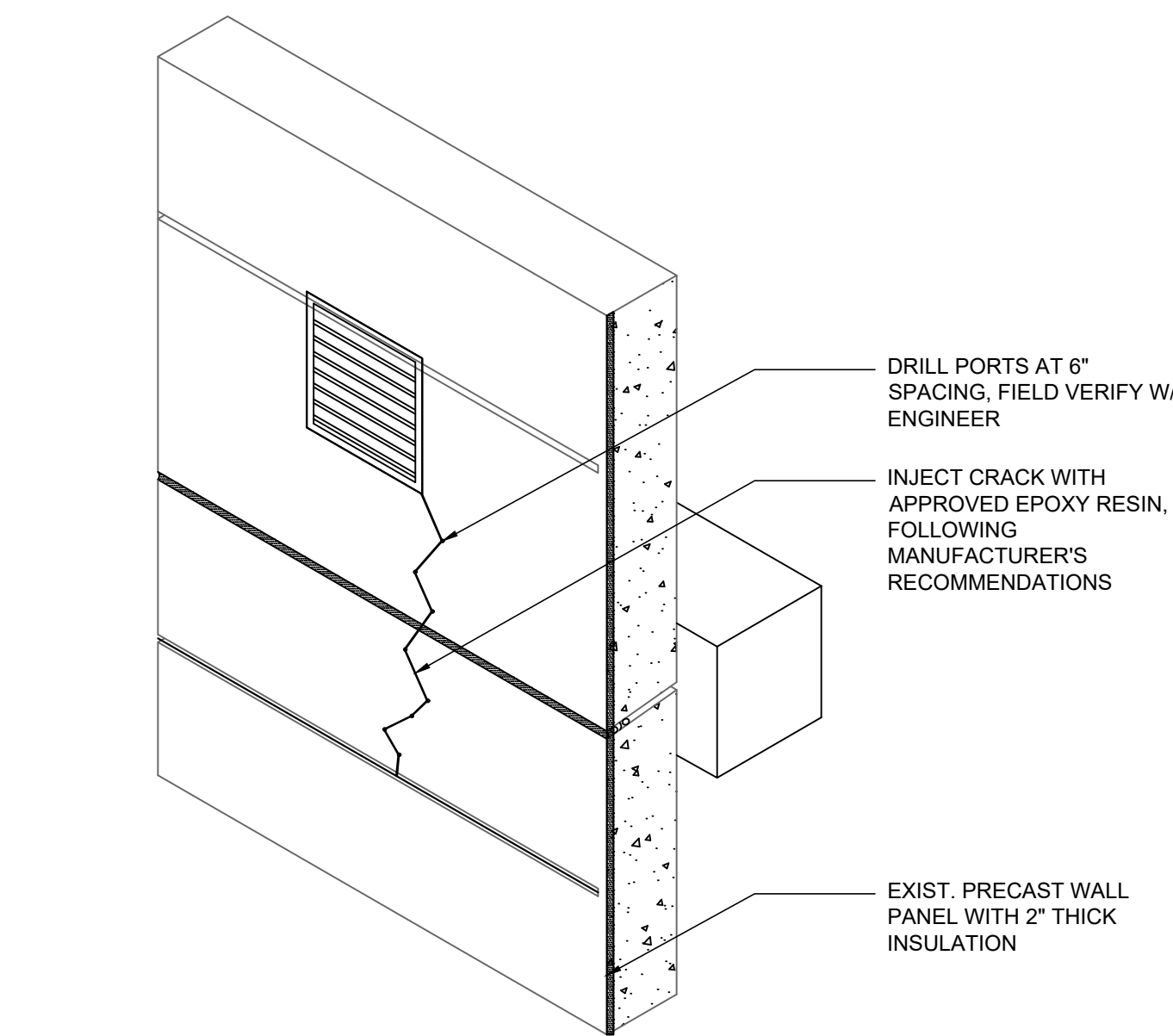


1 TYPICAL PRECAST WALL SECTION
SCALE: 2 1/4"=1'-0"



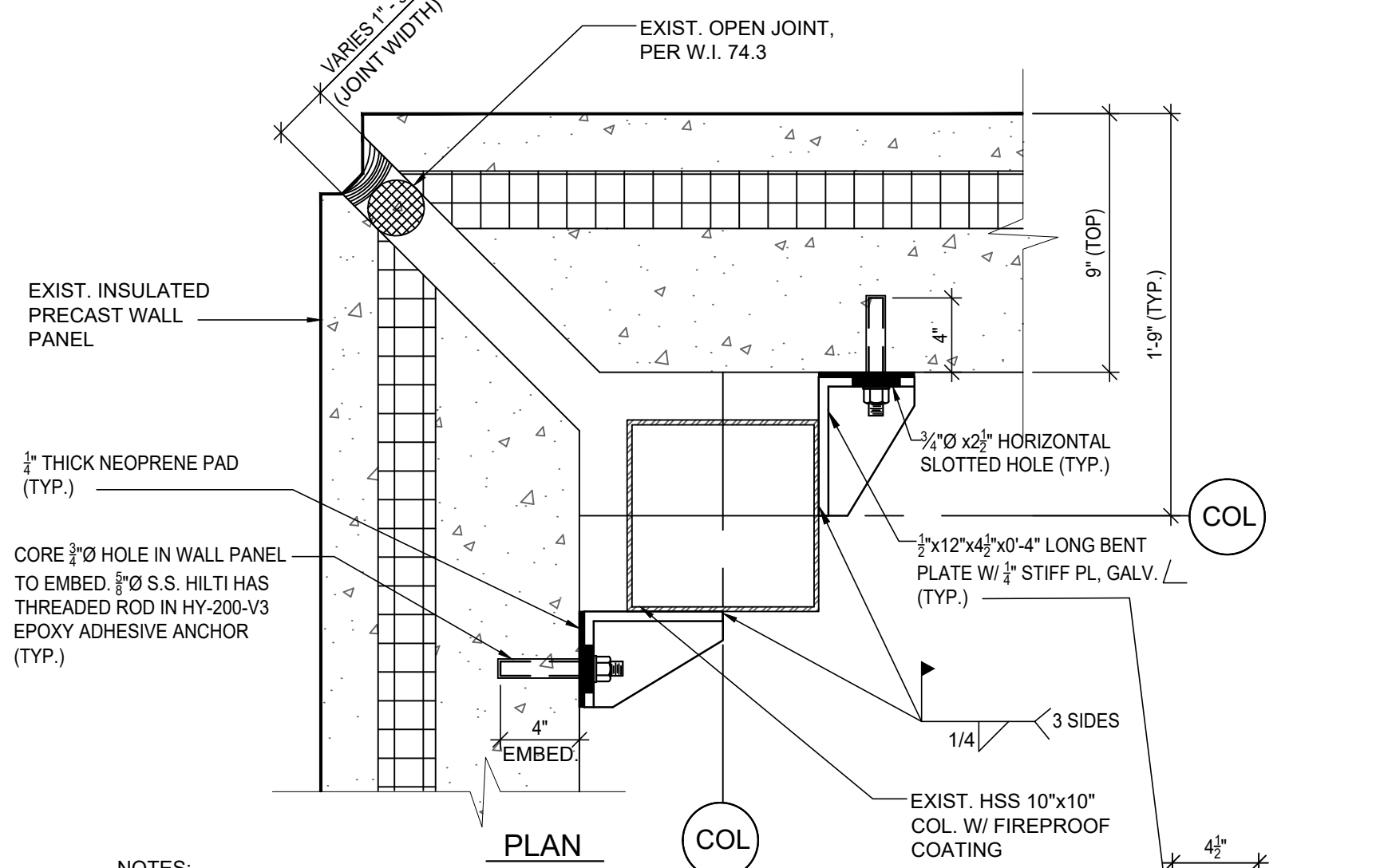
- NOTES:
1. REPAIR CONCRETE WALL AS REQUIRED TO CREATE UNIFORM SURFACES.
 2. REMOVE ALL EXISTING SEALANT, BACKER RODS, FILLER MATERIAL, DEBRIS (IF PRESENT).
 3. NEW EXPANSION JOINT TO MATCH EXISTING COLOR.

75.1 WALL EXPANSION JOINT - SILICONE
SCALE: 3/4"=1'-0"



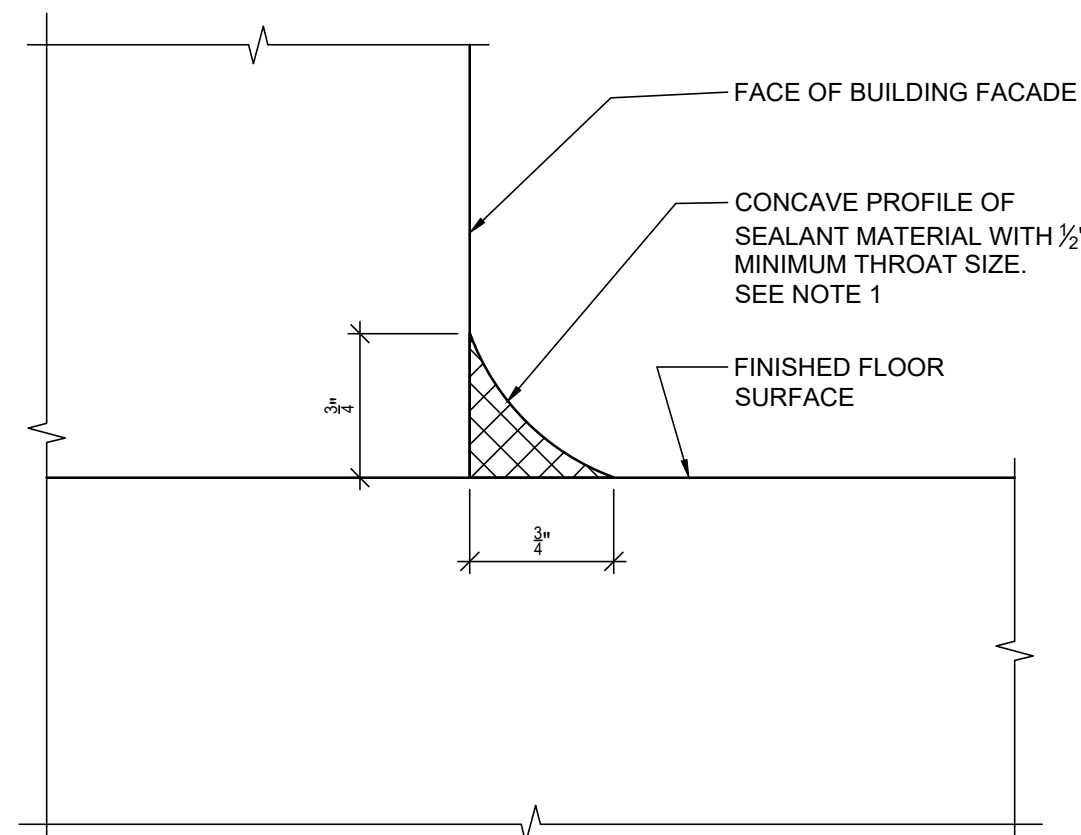
- NOTES:
1. DRILL INJECTION PORTS IN AT A DOWNWARD ANGLE.
 2. USE NON-STAINING SEALANT OR CLAY TO COVER CRACK DURING INJECTION.
 3. START AT LOWEST POINT AND INJECT CRACK UNTIL EPOXY EXITS NEXT PORT.
 4. CLEAN ALL RUNS OR OVERFLOW IMMEDIATELY.
 5. LET EPOXY DRY PRIOR TO REMOVING SEALANT.
 6. REFER TO DRAWINGS R-201 AND R-202 FOR CRACK LOCATIONS.

76.1 EPOXY CRACKS INJECTION
SCALE: 3/4"=1'-0"



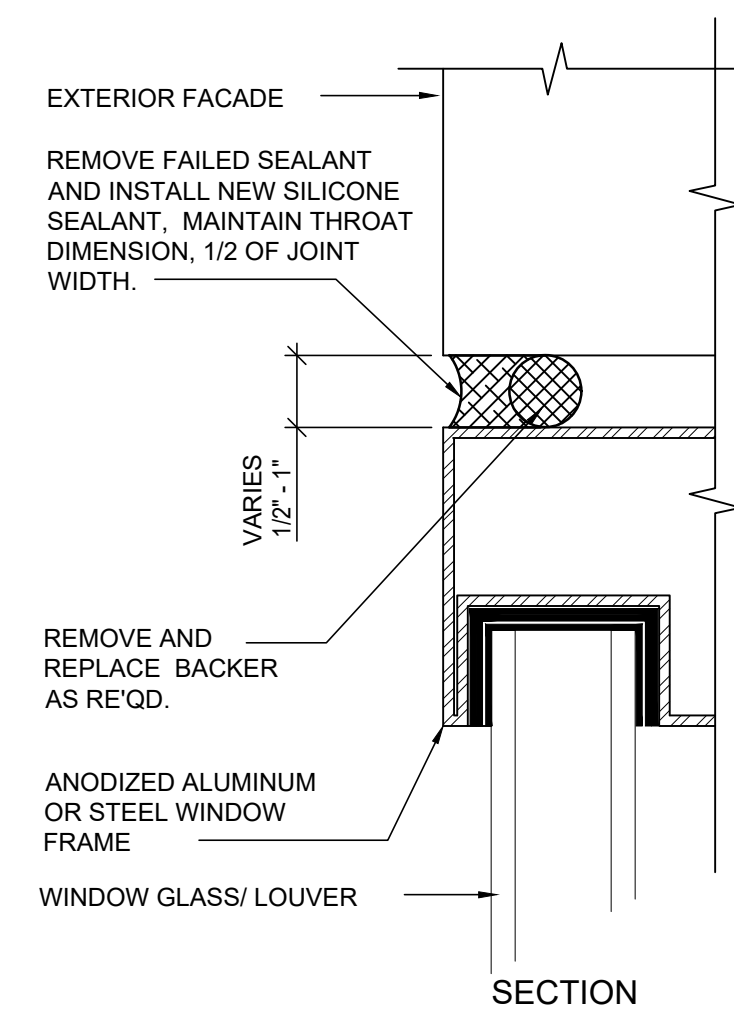
- NOTES:
1. LOCATE AND MARK REPAIR AREA AT THE 6TH LEVEL, INSIDE THE CABLE CHASE VAULT.
 2. ESTABLISH LOCATION OF EXIST. REINFORCING BARS PRIOR TO CORING. ADJUST CENTER LINE OF HOLES TO CLEAR REINFORCING BARS.
 3. EXIST. WALL TO COLUMN CONNECTION NOT SHOWN FOR CLARITY. LOCATE NEW CONNECTION 6-INCH BELOW EXIST. CONNECTION.
 4. REMOVE AND CLEAN ALL FIREPROOFING COATING TO EXPOSE BARE STEEL COLUMN.
 5. PREPARE AND INSTALL FIREPROOFING MATERIAL ACCORDING TO FIREPROOFING MANUFACTURER'S RECOMMENDATIONS.

70.1 SUPPLEMENTAL WALL ANCHORS
SCALE: 3/4"=1'-0"



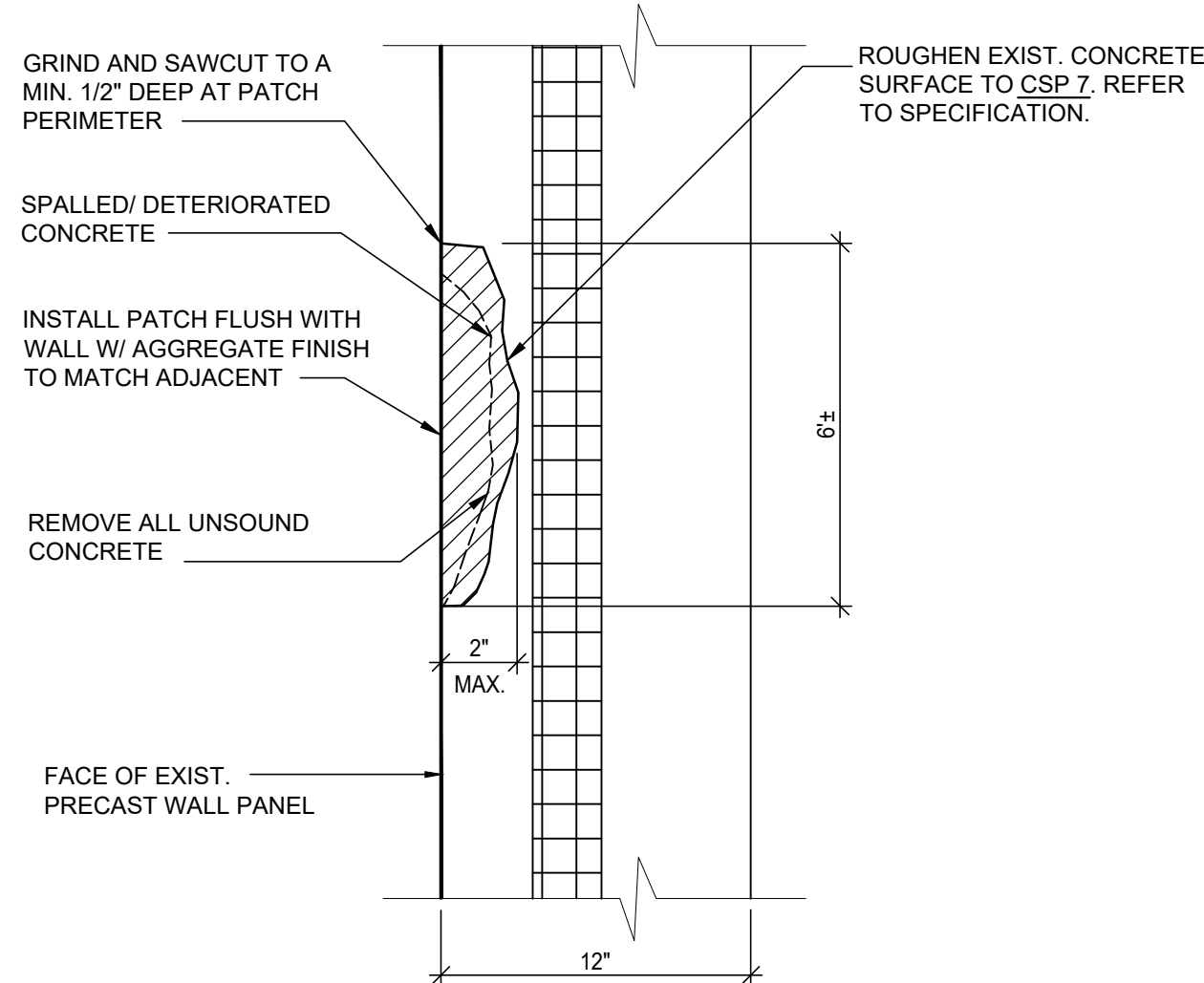
- NOTES:
1. REMOVE EXISTING COVE SEALANT MATERIAL IF PRESENT, SANDBLAST OR GRIND CONCRETE EDGES CLEAN.
 2. ALL COVE, ANCILLARY, CRACK, AND JOINT SEALANTS SHALL BE INSTALLED IN ACCORDANCE TO THE MANUFACTURER'S REQUIREMENTS.

74.4 COVE SEALANT REPLACEMENT
SCALE: 3/4"=1'-0"



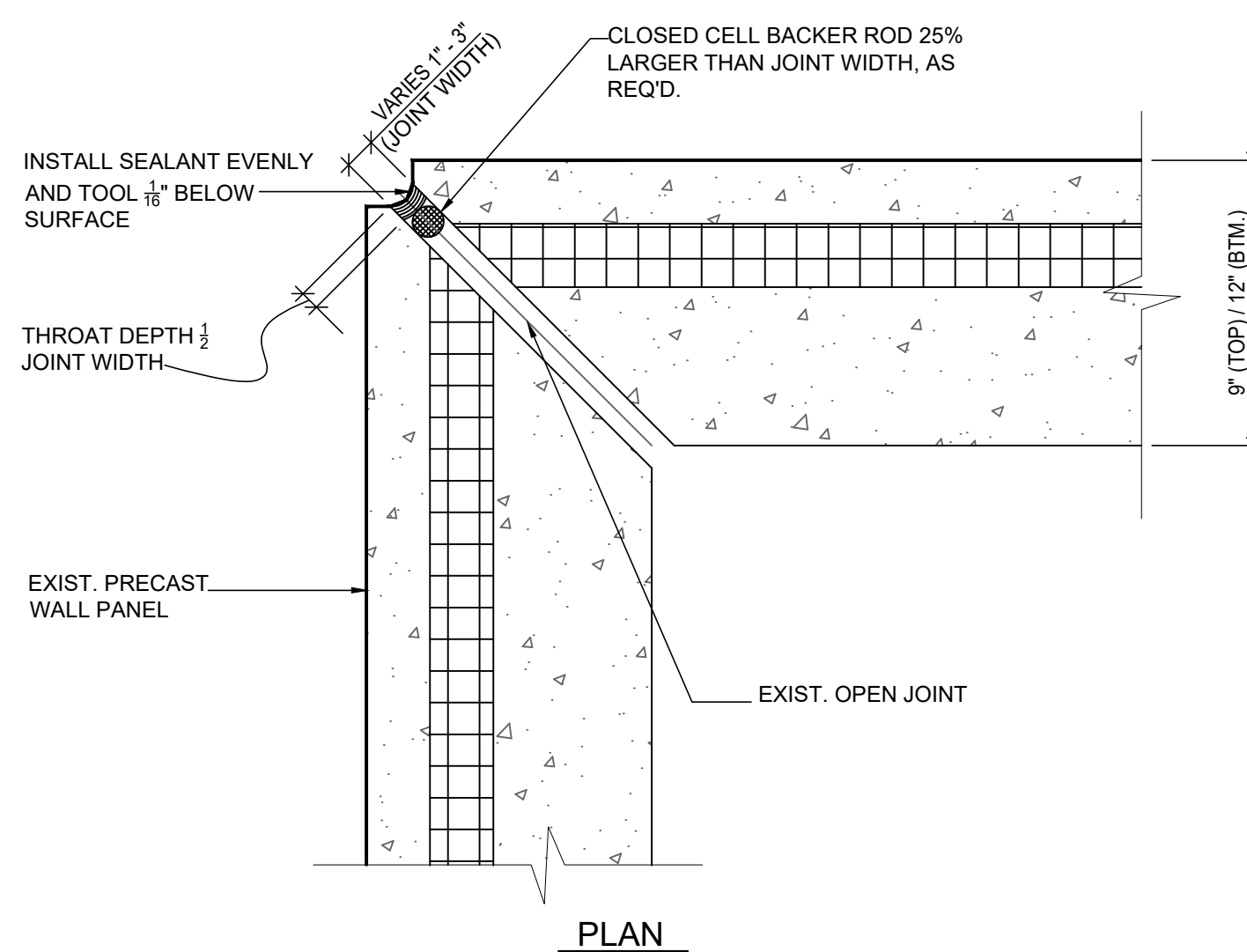
- NOTES:
1. EXISTING JOINT FILLER SHALL REMAIN, APPLY BOND BREAKER AS SHOWN.
 2. BACKER ROD SHALL BE 25% LARGER THAN JOINT WIDTH, AS REQ'D.
 3. REFER TO DETAIL 74.1 FOR ADDITIONAL REQUIREMENTS.

95.1 WINDOW FRAME JOINT SEALANT REPLACEMENT
SCALE: 3/4"=1'-0"



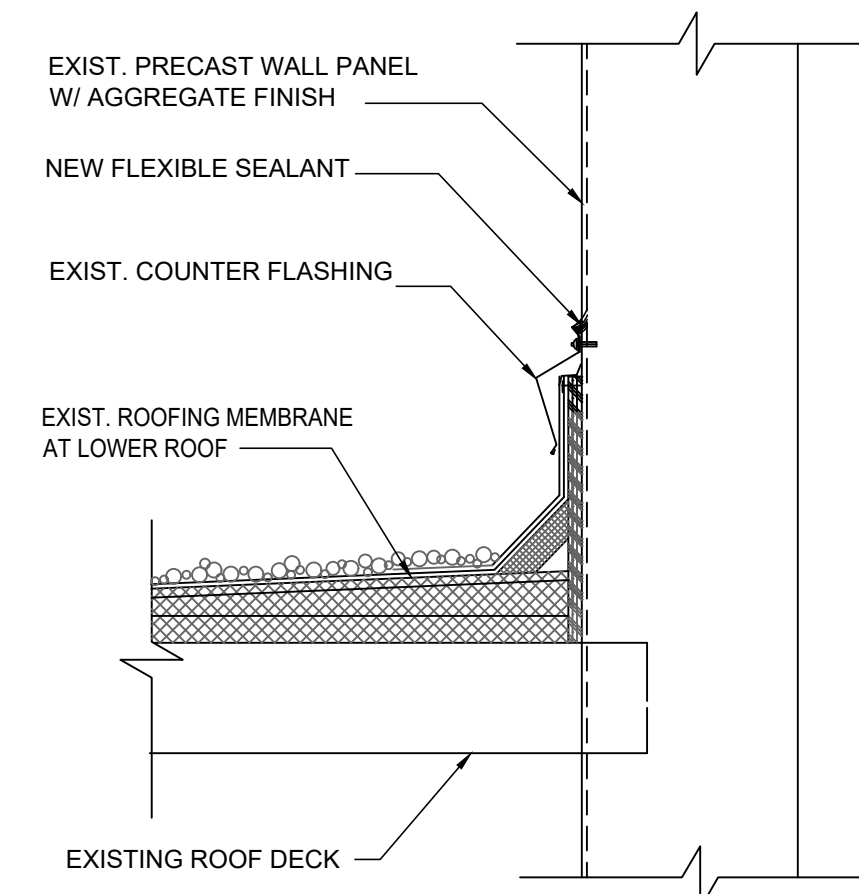
- NOTES:
1. PROTECT EXISTING REINFORCEMENT FROM DAMAGE DURING CHIPPING, GRINDING OR SAW CUTTING.
 2. EXISTING STEEL REINFORCEMENT OR EMBEDDED PLATES NOT SHOWN FOR CLARITY.
 3. REFER TO W.I. 74.2 OR 74.3 FOR WALL JOINT SEALANT REPAIR.

71.1 PRECAST WALL PANEL REPAIR - PARTIAL DEPTH
SCALE: 3/4"=1'-0"



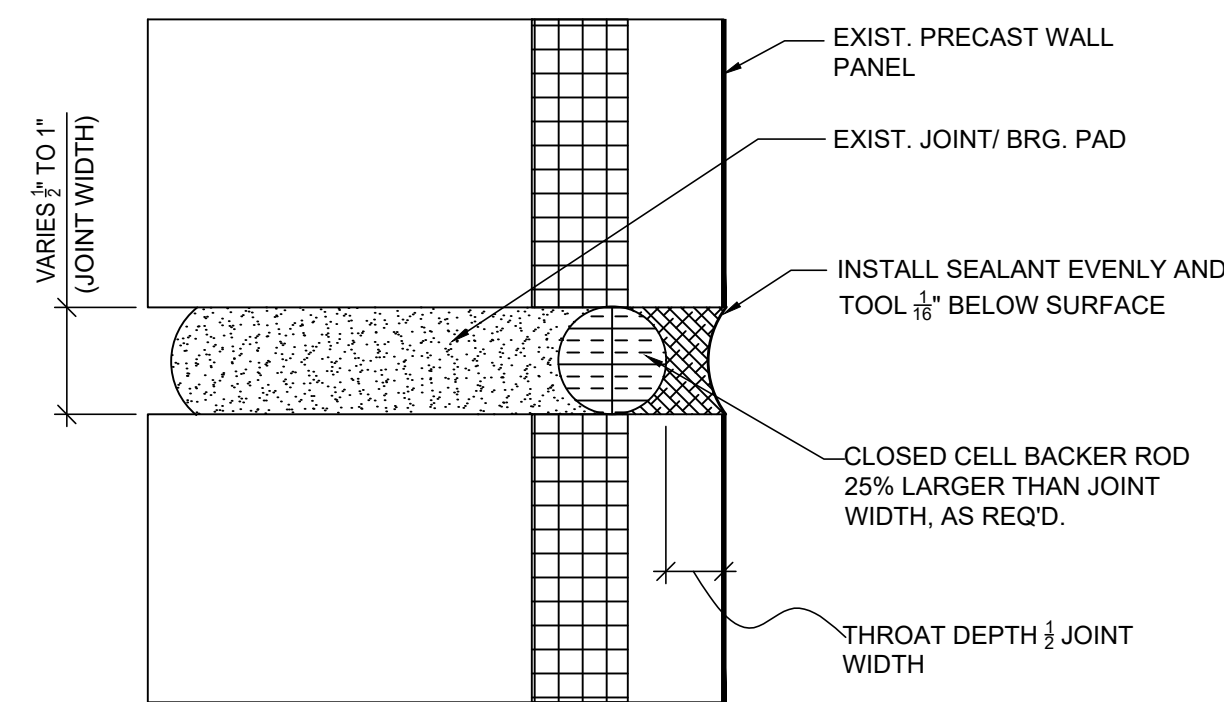
- NOTES:
1. REMOVE ALL EXISTING SEALANT AND BACKER RODS AS REQUIRED TO EXPOSE BARE MATERIAL SUBSTRATE.
 2. CLEAN ALL DUST AND DEBRIS FROM JOINT, MAKE SURE JOINT IS CLEAN AND DRY.
 3. PREPARE AND PRIME SEALANT CAVITY ACCORDING TO SEALANT MANUFACTURER'S RECOMMENDATIONS.
 4. ALL EXPOSED JOINT SEALANT SHALL BE REMOVED AND REPLACED WITH SILICONE SEALANT.

74.3 WALL VERTICAL JOINT REPLACEMENT
SCALE: 3/4"=1'-0"



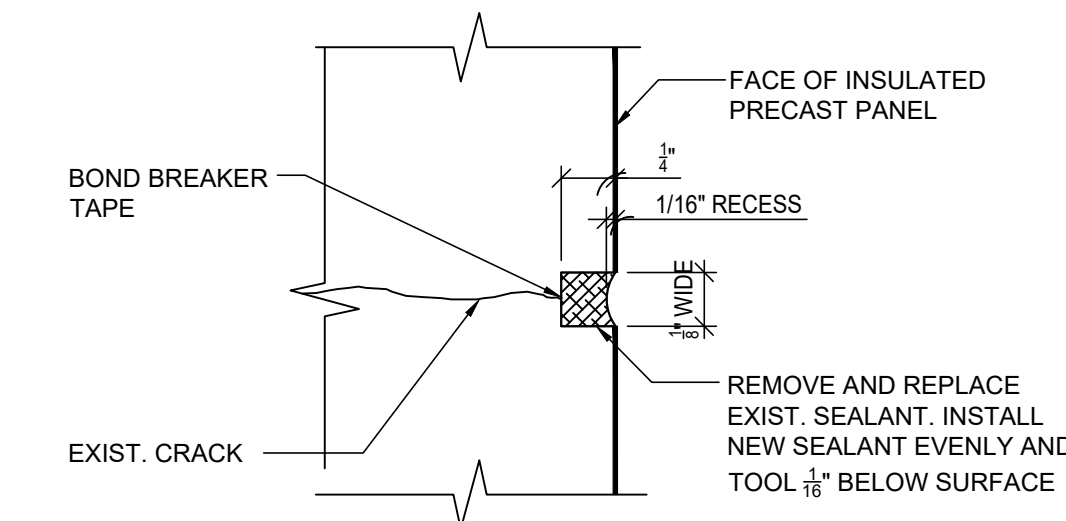
- NOTES:
1. REMOVE ALL EXISTING FAILED SEALANT TO EXPOSE BARE MATERIAL SUBSTRATE.
 2. GRIND WALL SURFACE, CLEAN ALL DUST AND DEBRIS FROM JOINT, MAKE SURE JOINT IS CLEAN, SMOOTH, AND DRY.
 3. PREPARE AND PRIME SEALANT CAVITY ACCORDING TO SEALANT MANUFACTURER'S RECOMMENDATIONS.
 4. ALL EXPOSED JOINT SEALANT AT ADJACENT WALL COPING SHALL BE REMOVED AND REPLACED.

96.5 RESEAL REGLET FLASHING
SCALE: 3/4"=1'-0"



- NOTES:
1. REMOVE ALL EXISTING SEALANT AND BACKER ROD AS REQUIRED TO EXPOSE BARE MATERIAL SUBSTRATE.
 2. CLEAN ALL DUST AND DEBRIS FROM JOINT, MAKE SURE JOINT IS CLEAN AND DRY.
 3. PREPARE AND PRIME SEALANT CAVITY ACCORDING TO SEALANT MANUFACTURER'S RECOMMENDATIONS.
 4. ALL EXPOSED JOINT SEALANT SHALL BE REMOVED AND REPLACED WITH SILICONE SEALANT.
 5. WALL CHAMFERED EDGES NOT SHOWN FOR CLARITY.

74.1 JOINT SEALANT REPLACEMENT
SCALE: 3/4"=1'-0"



- NOTES:
1. REMOVE ALL EXISTING SEALANT AS REQUIRED TO EXPOSE BARE MATERIAL SUBSTRATE. CLEAN ALL DUST AND DEBRIS FROM JOINT, MAKE SURE JOINT IS CLEAN AND DRY.
 2. PREPARE AND PRIME SEALANT CAVITY ACCORDING TO SEALANT MANUFACTURER'S RECOMMENDATIONS.
 3. INSTALL SEALANT EVENLY AND RECESS 1/16" BELOW EXISTING SURFACE. DO NOT OVERFILL JOINT. SEALANT COLOR TO MATCH EXISTING. SUBMIT ALL SEALANT COLOR SAMPLES TO OWNER/ENGINEER FOR REVIEWAL AND APPROVAL PRIOR TO START OF WORK.

74.2 CONTROL JOINT SEALANT REPLACEMENT
SCALE: 3/4"=1'-0"

Mead & Hunt

Mead and Hunt, Inc.
2440 Deming Way
Middleton, WI 53562
phone: 608-273-6380
meadhunt.com



Specialty Consulting, Inc.
2942 W. Van Buren St.
Chicago, IL 60612
phone: 312-319-7572
www.spc-inc.com

© Copyright 2024 Mead & Hunt, Inc.
This document, or any portion thereof, shall not be duplicated, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.



CITY OF BATTLE CREEK
BATTLE CREEK EXECUTIVE
AIRPORT - ATCT REHAB
15551 SOUTH AIRPORT ROAD
BATTLE CREEK, MI. 49015

ISSUED
05/31/24 ISSUED FOR BID

AIP NO.: TBD
MSH NO.: 0228800-240589.01
DATE: MAY 31, 2024
DESIGNED BY: LE
DRAWN BY: LE
CHECKED BY: KNS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
WALL SECTION AND DETAILS

SHEET NO.

R-501

SITE PICTURES

ATC CAB EQUIPMENT



ATIS DISPLAY SCREEN



POSITION 1



POSITION 2



POSITION 3



POSITION 4

EQUIPMENT ROOM RACK



VHF GROUND SECONDARY RADIO (17390)



VHF GROUND SECONDARY RADIO (17236)



VHF GROUND SECONDARY RADIO (17235)



RADIO RACK IN THE EQUIPMENT ROOM

GENERAL DEMOLITION NOTES:

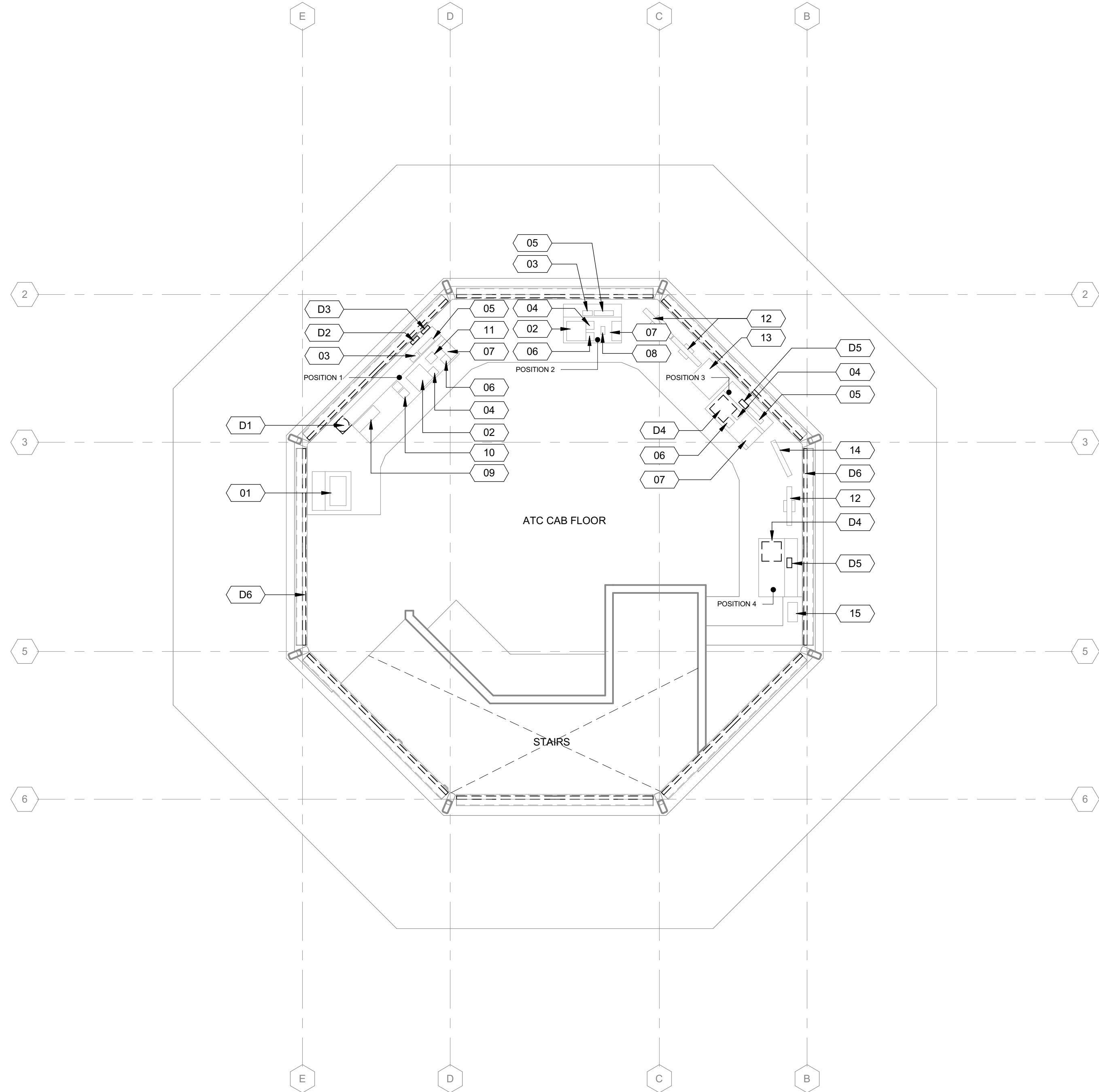
1. THIS PLAN SHOWS AIR TRAFFIC CONTROL EQUIPMENT THAT SHALL BE REPLACED AT THE EXISTING CONTROL TOWER. COORDINATE ALL NEW EQUIPMENT THAT IS SHOWN TO BE REPLACED WITH NEW MILLWORK TYPE CONSOLES - SEE CUTTING AND PATCHING SPECIFICATIONS.
2. EXISTING CONDITIONS INDICATED ON THE DRAWINGS SHALL BE FIELD-VERIFIED BY THE CONTRACTOR. ANY DIFFERING CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER'S REPRESENTATIVE.
3. DO NOT CUT INTO, REMOVE OR ALTAR ANY STRUCTURAL MEMBER UNLESS IT IS SPECIFICALLY NOTED OR SHOWN ON THE STRUCTURAL DRAWINGS.
4. WHILE WORKING UNDER THIS CONTRACT IS IN PROGRESS, PROTECT EXISTING BUILDING, GROUNDS AND CONTENTS INCLUDING ADJACENT AREAS FROM DAMAGE OR HARM.
5. COORDINATE REPLACED EQUIPMENT WITH TELECOMMUNICATION EQUIPMENT THAT IS TO REMAIN OR REPLACED IN FULL.
6. THE PROJECT REQUIRES PLANNED SCHEDULING OF THE SEQUENCE OF PHASES, APPROVALS, COORDINATION WITH THE CONTRACTING OFFICER'S REPRESENTATIVE AND DELIVERY OF MATERIALS IN TIMELY FASHION ARE REQUIRED TO INSURE THAT THE AREAS TO REMAIN OPERATIONAL AND IT'S CONTENTS ARE NOT DAMAGED OR DISTURBED IN ANY WAY. THIS INCLUDES BUT IS NOT LIMITED TO WATER LEAKING THROUGH OPENINGS EXPOSED BY WINDOW, ROOF DEMOLITION & ETC.
7. DEMOLITION MATERIAL, EQUIPMENT AND DEBRIS SHALL BE REMOVED AT THE END OF WORK DAY FROM THE SITE TO AN AREA DESIGNATED BY THE CONTRACTING OFFICER'S REPRESENTATIVE.
8. NOTIFY CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE IMMEDIATELY IF ANY SUSPECTED HAZARDOUS MATERIAL IS FOUND.

D# DEMO KEYNOTES

- D1 REMOVE LIGHT GUN
D2 REMOVE MODEM - XSTREAM, PREPARE FOR NEW DEVICE
D3 REMOVE MODEM - XBEE RF, PREPARE FOR NEW DEVICE
D4 REMOVE TOUCH SCREEN DISPLAY, PREPARE FOR NEW TOUCH SCREEN
D5 REMOVE WIND TRACKER, PREPARE FOR NEW WIND TRACKER DEVICE
D6 REMOVE EXISTING WINDOW SHADES (8 TOTAL), PREPARE FOR NEW SHADING DEVICE
D7 SECONDARY RADIO TRANSMITTERS AND RECIEVERS LOCATED IN THE EQUIPMENT ROOM RACKS TO BE REMOVED

EQUIPMENT KEYNOTES

- 01 ATIS DISPLAY SCREEN - FAA EQUIPMENT
02 VCSS TOUCH SCREEN ENTRY DISPLAY - FREQUENTIS
03 WIND TRACKER YOUNG MODEL NO. 06201
04 VOLUME CONTROL
05 TIMEVIEW DIGITAL DIPLAY CLOCK
06 SPEAKER
07 FLIGHT DATA STRIP BAY
08 ATIS / ASOS RECORDER
09 AIRFIELD LIGHTING CONTROL PANEL
10 STARS CONTROL PANEL AND ALARM UNIT
11 VAISALA WEATHER SENSOR DISPLAY SCREEN
12 MONITOR
13 PRINTER
14 ASOS SCREEN
15 FLIGHT DATA STRIP PRINTER



Mead & Hunt

Mead & Hunt, Inc.
2440 Deming Way
Middleton, WI 53562
phone: 608-273-6380
meadhunt.com

POND

CTBX a Pond Brand
110 Veterans Blvd
Suite 347
Metairie, LA 70005
phone: 504-301-2839
www.pondco.com

© Copyright 2024 Mead & Hunt, Inc.
This document, or any portion thereof, shall not be duplicated, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.

Battle Creek
EXECUTIVE AIRPORT
AT KELLOGG FIELD

CITY OF BATTLE CREEK
BATTLE CREEK EXECUTIVE
AIRPORT - ATCT REHAB
15551 SOUTH AIRPORT ROAD
BATTLE CREEK, MI, 49015

ISSUED
05/31/24 ISSUED FOR BID

AIP NO.: TBD
MAH NO.: 0228800-240589.01
DATE: MAY 31, 2024
DESIGNED BY:
DRAWN BY: MA
CHECKED BY: JR
DO NOT SCALE DRAWINGS

SHEET CONTENTS
CAB LEVEL PLAN
(DEMO)

SHEET NO.:

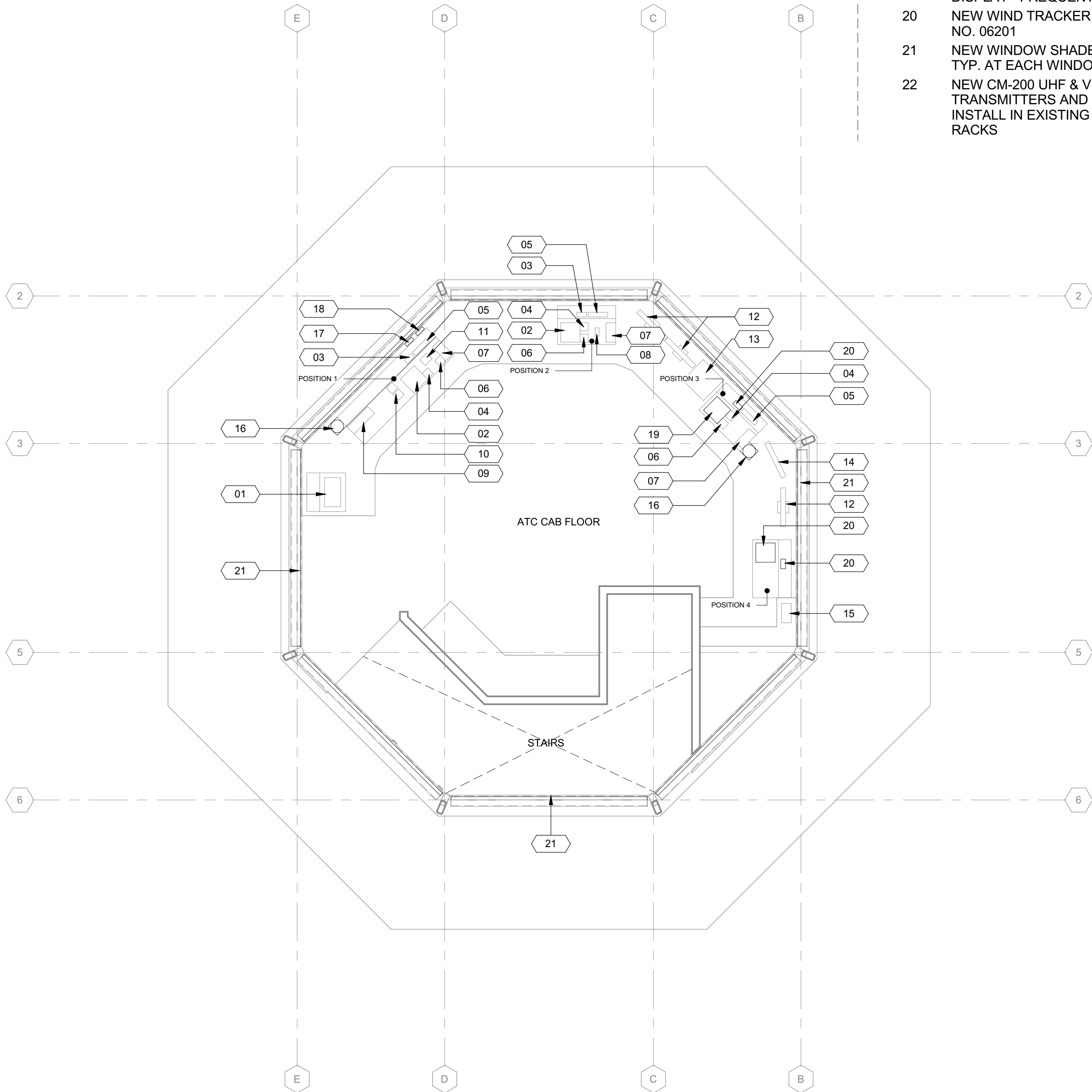
EQD101

SHEET NOTES (FLOOR PLAN):

1. CONTRACTOR SHALL LOCATE BLOCKING AND BACKING AS REQUIRED FOR EQUIPMENT.
2. ALL CABLING ENTERING CONTROL TOWER CAB AREA SHALL TRANSITION FROM CHASE TO RAISED FLOOR GRID. CABLING SHALL BE ROUTED TO EACH CONSOLE AREA, CEILING AND TO ROOF, AS REQUIRED. ALL CABLES SHALL BE BUNDLED AND TIED FOR EACH PARTICULAR CONSOLE AREA.
3. THESE DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT ONLY AND DO NOT INDICATE EVERY OFFSET, BEND, FITTING OR MODIFICATION OF MATERIALS REQUIRED FOR INSTALLATION, ATC EQUIPMENT CONTRACTOR SHALL CONDUCT A SITE SURVEY PRIOR TO INSTALLATION AND COORDINATE WORK WITH THE OWNER.
4. CABLE LENGTHS IN THE EQUIPMENT ROOM SHALL BE LONG ENOUGH TO REACH ANY RACK LOCATION PLUS UP TO EIGHT (8) FEET FOR TERMINATION.
5. ALL COPPER DATA CABLE JACKETING SHALL BE BLUE IN COLOR. ALL COPPER VOICE CABLE JACKETING SHALL BE WHITE IN COLOR.
6. SEE ELECTRICAL SPECIFICATIONS FOR CONDUIT SLEEVES AND CABLE TRAY INFORMATION.
7. ATTACH ANTENNAS TO BUILDING WITH APPROVED MATERIALS AND MANUFACTURERS DETAILS.
8. EQUIPMENT AND MATERIALS REQUIREMENTS PROVIDED BY THE ATC EQUIPMENT CONTRACTOR SHALL BE IN ACCORDANCE WITH SECTION 275000 OF THE SPECIFICATIONS. ANCILLARY MATERIALS ARE COVERED IN OTHER SECTIONS OF THE SPECIFICATIONS. CONTRACTOR SHALL PROVIDE EQUIPMENT UNLESS LABLED BY FAA OR NWS.
9. COORDINATE WITH COMMUNICATIONS PLANS FOR EQUIPMENT ROOM LAYOUT.

ABBREVIATIONS

- (LC) LOCAL CONTROL
- (GC) GROUND CONTROL
- (FD) FLIGHT DATA
- (FF) FLIGHT FOLLOWING
- (SUP) SUPERVISOR
- (CIC) CONTROLLER IN CHARGE



EQUIPMENT KEYNOTES

- 01 ATIS DISPLAY SCREEN - FAA EQUIPMENT
- 02 VCSS TOUCH SCREEN ENTRY DISPLAY - FREQUENTIS
- 03 WIND TRACKER YOUNG MODEL NO. 06201
- 04 VOLUME CONTROL
- 05 TIMEVIEW DIGITAL DIPLAY CLOCK
- 06 SPEAKER
- 07 FLIGHT DATA STRIP BAY
- 08 ATIS / ASOS RECORDER
- 09 AIRFIELD LIGHTING CONTROL PANEL
- 10 STARS CONTROL PANEL AND ALARM UNIT
- 11 VAISALA WEATHER SENSOR DISPLAY SCREEN
- 12 MONITOR
- 13 PRINTER
- 14 ASOS SCREEN
- 15 FLIGHT DATA STRIP PRINTER
- 16 NEW LIGHT GUN - THORN DNT AIRFIELD LIGHTING MOD. NO.BH-1214
- 17 NEW MODEM - XSTREAM PKG
- 18 NEW MODEM XBEE RF
- 19 NEW VCSS TOUCH SCREEN ENTRY DISPLAY - FREQUENTIS
- 20 NEW WIND TRACKER YOUNG MODEL NO. 06201
- 21 NEW WINDOW SHADES / PLASTIC-VIEW TYP. AT EACH WINDOW (8 TOTAL)
- 22 NEW CM-200 UHF & VHF RADIO TRANSMITTERS AND RECEIVERS. INSTALL IN EXISTING EQUIPMENT ROOM RACKS

Mead & Hunt

Mead & Hunt, Inc.
2440 Deming Way
Middleton, WI 53562
phone: 608-273-6380
meadhunt.com

POND

CTBX a Pond Brand
110 Veterans Blvd
Suite 347
Metairie, LA 70005
phone: 504-301-2839
www.pondco.com

© Copyright 2024 Mead & Hunt, Inc.
This document, or any portion thereof, shall not be duplicated, disclosed, or used on any other project or extension of this project except by written agreement with Mead & Hunt, Inc. Mead & Hunt shall not be responsible for any unauthorized use of, or alteration to these documents.

Battle Creek
EXECUTIVE AIRPORT
AT KELLOGG FIELD

CITY OF BATTLE CREEK
BATTLE CREEK EXECUTIVE
AIRPORT - ATCT REHAB
15551 SOUTH AIRPORT ROAD
BATTLE CREEK, MI, 49015

ISSUED
05/31/24 ISSUED FOR BID

AIP NO.: TBD
MAH NO.: 0228800-240589.01
DATE: MAY 31, 2024

DESIGNED BY:
DRAWN BY: MA
CHECKED BY: JR
DO NOT SCALE DRAWINGS

SHEET CONTENTS
CAB LEVEL PLAN

SHEET NO.:

EQ-101

1 205'-0" CAB LVL.
1/4" = 1'-0"