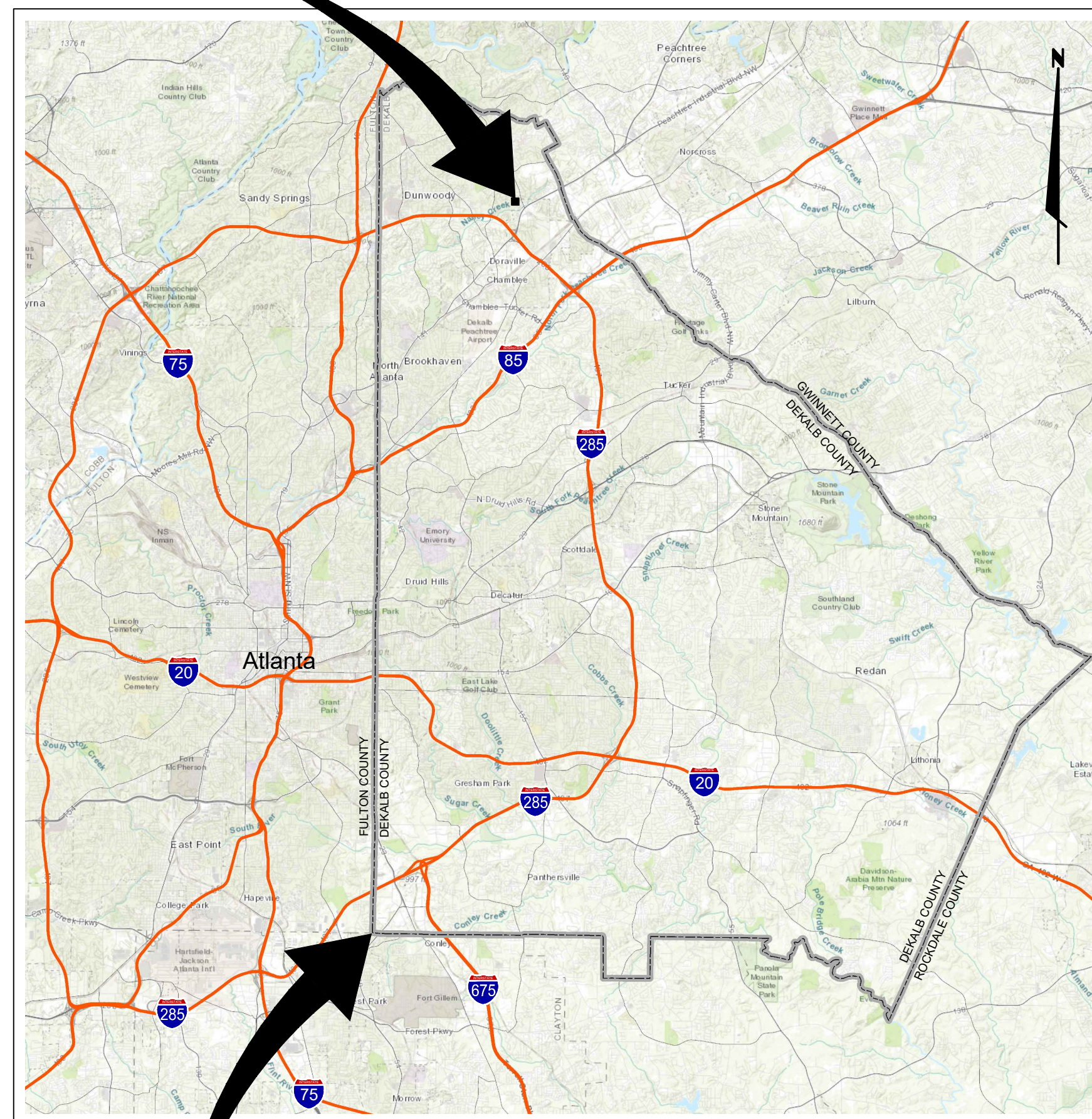


DEKALB COUNTY, GEORGIA DEPARTMENT OF WATERSHED MANAGEMENT



SCOTT CANDLER WATER TREATMENT PLANT ELECTRICAL BUILDING NO. 2 STRUCTURAL DESIGN IMPROVEMENTS

PROJECT
LOCATION



LOCATION MAP

4830 WINTERS CHAPEL ROAD
ATLANTA, GEORGIA 30360
NOT TO SCALE



CHIEF EXECUTIVE OFFICER
MICHAEL L. THURMOND

BOARD OF COMMISSIONERS

NANCY JESTER - DISTRICT 1
JEFF RADER - DISTRICT 2
LARRY JOHNSON - DISTRICT 3
STEVE BRADSHAW - DISTRICT 4
MEREDA DAVIS JOHNSON - DISTRICT 5
KATHIE GANNON - DISTRICT 6
LORRAINE COCHRAN-JOHNSON - DISTRICT 7

**DEKALB COUNTY DEPARTMENT OF WATERSHED
MANAGEMENT APPROVAL**

REGINALD WELLS - DIRECTOR
KERRY WILLIAMS, PE - ENGINEERING MANAGER
DORA DE TABOADA, PE - ENGINEER PRINCIPAL
DAVID HAYES - ASSISTANT DIRECTOR WATER
SANDY SMITH - WATER PRODUCTION MANAGER
JOHN PATTERSON - WATER PLANT ASSISTANT SUPERINTENDENT

CONSTRUCTION TEAM:

GENERAL CONTRACTOR: ENGINEERED RESTORATIONS
ELECTRICAL SUBCONTRACTOR: CLEVELAND ELECTRIC

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S-01	GENERAL NOTES, ABBREVIATIONS AND SYMBOLS
S-02	EXISTING PLAN AND ELEVATION VIEWS
S-03	CMU WALL DEMOLITION - ELEVATION
S-04	CMU WALL REPAIR - PLAN
S-05	EAST WALL REPAIR - SECTIONS AND DETAILS
S-06	SOUTH WALL REPAIR - SECTIONS AND DETAIL
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S-08	MISCELLANEOUS REPAIRS
E-01	SYMBOLS AND GENERAL NOTES
E-02	GENERAL NOTES
E-03	EXISTING ELECTRICAL PLAN
E-04	PANELBOARD SCHEDULES

MAY 2019

100% SUBMITTAL

PROJECT MANAGER: MICHAEL DIAZ, P.E.
GEORGIA REGISTRATION NO: 030039

PROJECT ENGINEER: DONNELL DUNCAN, P.E., S.E.
GEORGIA REGISTRATION NO: 033619

PROJECT ENGINEER: IVAN GONZALEZ, P.E.
GEORGIA REGISTRATION NO: 013444

LEGAL ENTITY: ARCADIS-U.S., INC.



2839 PACES FERRY ROAD, SUITE 900, ATLANTA, GA 30339-3769
TEL: 770.431.8666 FAX: 770.435.2666
www.ARCADIS.com



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ELECTRICAL BUILDING NO. 2



QR CODE TO ACCESS BUILDING WALK-THROUGH 360 PHOTOGRAPHS. FOR SECURITY REASONS ONLY PEOPLE WITH THE PROPER LOGIN INFORMATION CAN ACCESS THE WEBSITE.

1. OPEN CAMERA APPLICATION ON YOUR PHONE.
2. PLACE PHONE ON THE QR CODE.
3. CLICK ON THE LINK TO OPEN THE HOLOBUILDER WEBSITE.
4. ENTER CREDENTIALS TO ACCESS PHOTOGRAPHS.

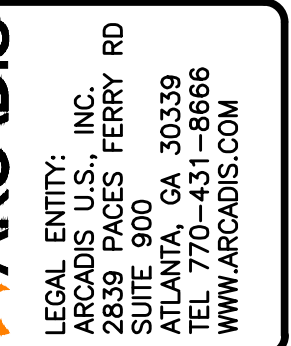
GENERAL NOTES

1. THE CONTRACTOR SHALL FURNISH ALL MATERIALS FOR, AND PROPERLY RESTORE ALL PAVEMENT, DRIVES, SIDEWALK, AND CURBS, WHICH MAY HAVE BEEN DAMAGED, REMOVED OR DISTURBED AS RESULT OF ACCOMPLISHING THE WORK.
2. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY GRADES AND DIMENSIONS AND TO NOTIFY THE ENGINEER IN ADVANCE AND IN WRITING OF ANY DISCREPANCIES PRIOR TO PERFORMING HIS WORK.
3. EXISTING UTILITY LOCATIONS SHOWN ARE BASED ON SURFACE OBSERVATION AND LIMITED DETECTION SERVICES. NOT ALL EXISTING UTILITIES ARE SHOWN ON THE DRAWING. CONTRACTOR IS RESPONSIBLE FOR DETERMINING BOTH THE EXACT LOCATION OF ALL EXISTING UTILITIES AND FUTURE UTILITIES AND FOR THEIR PROTECTION DURING CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL OPERATIONS WITH ALL UTILITIES WHICH MAY BE IN CONFLICT WITH HIS WORK.
4. A COPY OF THE APPROVED SET OF CONSTRUCTION PLANS MUST BE ON THE JOBSITE AT ALL TIMES DURING CONSTRUCTION.
5. HAUL OPERATIONS SHALL NOT BE PERMITTED DURING PEAK TRAFFIC PERIODS. CONTRACTOR SHALL COORDINATE AND OBTAIN APPROVAL OF THE HAULING OPERATING SCHEDULE AND OPERATIONS WITH DEKALB COUNTY AND MUNICIPAL AUTHORITY AS APPROPRIATE.
6. UNLESS NOTED OTHERWISE ALL CONSTRUCTION SHALL CONFORM TO THE DEKALB COUNTY STANDARDS AND SPECIFICATIONS LATEST EDITION.
7. ALL WORK AROUND THE EXISTING UTILITIES AND UTILITY STRUCTURES WHETHER ABOVE OR BELOW GROUND SHALL BE PERFORMED IN A MANNER THAT WILL AVOID DAMAGE TO THE UTILITIES AND STRUCTURES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL ACCURATELY LOCATE ABOVE AND BELOW UTILITIES WHICH MAY BE AFFECTED BY THE WORK AND PROTECT ALL UTILITIES NOT DESIGNATED FOR REMOVAL, RESTORATION, OR REPLACEMENT IN THE COURSE OF CONSTRUCTION. PROVIDE 72 HOURS OF ADVANCE NOTICE TO THE UTILITY OWNER AND DEKALB COUNTY PRIOR TO BEGINNING CONSTRUCTION IN THE VICINITY OF THE EXISTING UTILITIES. FOR EXISTING UTILITY LOCATION ASSISTANCE CALL THE UNDERGROUND UTILITIES PROTECTION CENTER (GA 811).
8. ANY DAMAGE TO EXISTING UTILITIES CAUSED BY THE CONTRACTOR, CONTRACTOR'S CREW AND/OR EQUIPMENT SHALL BE THE CONTRACTOR'S COST AND RESPONSIBILITY TO REPLACE PER OWNER'S STANDARDS AND SPECIFICATIONS.
9. ALL SALVAGE METAL MATERIAL SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE CLEANED AND STORED ON THE OWNER'S PROPERTY AS DIRECTED BY THE OWNER. ALL OTHER MATERIALS WHICH ARE NOT DELIVERED TO THE OWNER AS SPECIFIED ABOVE SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DEMOLISH AND DISPOSE OF PER DEKALB COUNTY STANDARDS AND REQUIREMENTS. ALL DEMOLISHED STRUCTURES, EQUIPMENT AND MATERIALS SHALL BE REMOVED FROM THE WORK SITE BY THE CONTRACTOR. ALL DEMOLISHED STRUCTURES, EQUIPMENT AND MATERIALS WHICH ARE EITHER LEFT IN PLACE OR REMOVED TO THE DISPOSAL SITE SHALL BE IN A NON-HAZARDOUS CONDITION.
10. THIS PROJECT IS IN THE VICINITY OF GEORGIA POWER COMPANY POLES AND POWER LINES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT GEORGIA POWER TO OBTAIN AN OVERHEAD UTILITY TICKET PRIOR TO WORKING ADJACENT TO THE POWER LINES AND POLES.
11. IN THE EVENT ACTIVE UTILITY SERVICES REQUIRE INTERRUPTION, THE CONTRACTORS SHALL COORDINATE AND CONSULT WITH THE OWNER OR OWNERS AND OBTAIN APPROVAL FROM THEM PRIOR TO SERVICES BEING INTERRUPTED.
12. THE CONTRACTOR SHALL AT ALL TIMES CONTROL DUST AND DEBRIS FROM THE OPERATIONS TO A LEVEL ACCEPTABLE TO DEKALB COUNTY AND LOCAL BUSINESSES.
13. THE CONTRACTOR SHALL CONTACT AND COORDINATE WITH THE DEKALB COUNTY OR LOCAL AUTHORITY FIRE MARSHAL PRIOR TO REMOVING ANY FIRE HYDRANTS OR ANY FIRE PROTECTION UTILITIES. ANY WORK OR MATERIALS REQUIRED BY THE FIRE MARSHAL TO TEMPORARILY PROVIDE FOR FIRE PROTECTION TO THE LOCAL BUSINESS SHALL BE PART OF THE CONTRACTOR'S SCOPE OF WORK. "OUT-OF-SERVICE RINGS" WILL BE REQUIRED FOR HYDRANTS WHILE OUT OF SERVICE.
14. EXISTING SERVICES AND FACILITIES DAMAGED OR OTHERWISE INTERRUPTED BY THE CONTRACTOR THROUGH NEGLIGENCE OR THROUGH USE OF FAULTY MATERIALS OR WORKMANSHIP SHALL BE PROMPTLY REPAIRED, REPLACED, OR OTHERWISE RESTORED BY THE CONTRACTOR WITHOUT ADDITIONAL COST TO THE OWNER.



REVISIONS		
No.	DATE	DESCRIPTION
A	04-28-2019	60% SUBMITTAL
B	05-2019	100% SUBMITTAL

GENERAL EXISTING SITE AERIAL VIEW AND GENERAL NOTES



DESIGNED BY:	A. CAPELOUTO
DRAWN BY:	A. CANNON
CHECKED BY:	M. DIAZ
DATE:	MAY 2019
FILE NAME:	G-01

DRAWING
G-01

GENERAL

1. THE SYMBOLS AND ABBREVIATIONS ON THIS SHEET ARE A COMPREHENSIVE STANDARD GUIDE FOR GENERAL USE ON ALL PROJECTS. THEREFORE NOT ALL THE SYMBOLS AND ABBREVIATIONS CONTAINED IN THIS LIST ARE NECESSARILY USED ON THIS PARTICULAR PROJECT AND SHOULD BE USED FOR CLARIFICATION ONLY.
2. QUALITY OF CONSTRUCTION REQUIRED, PERFORMANCE LEVELS OF WORKMANSHIP, MANUFACTURING AND INDUSTRY STANDARDS, STRENGTH AND PHYSICAL REQUIREMENTS OF MATERIALS, CONFORMANCE TO CODES AND REGULATIONS, GUARANTEES AND OTHER PROJECT REQUIREMENTS ARE SPECIFIED IN THE PROJECT MANUAL.
3. IF MATERIALS, QUANTITIES, STRENGTHS OR SIZES INDICATED BY THE DRAWINGS OR SPECIFICATIONS ARE NOT IN AGREEMENT WITH THESE NOTES, THE BETTER QUALITY AND/OR GREATER QUANTITY, STRENGTH OR SIZE INDICATED, SPECIFIED, OR NOTED SHALL BE PROVIDED.
4. PERFORM ALL WORK IN COORDINATION WITH ALL DRAWINGS AND INFORMATION RELATED TO STRUCTURAL WORK.
5. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE DEMOLITION & REPAIR PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING PROCEDURE. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS OR TIE-DOWNS MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
6. STRUCTURAL COMPONENTS HAVE BEEN VERIFIED FOR DESIGN LOADS SHOWN OR SPECIFIED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FACILITIES SUBJECT TO CONSTRUCTION LOADS EXCEEDING THE DESIGN LOADS AND SHALL NOTIFY THE ENGINEER OF ANY SUCH ADDITIONAL LOADS.
7. ALL DIMENSIONS AND ELEVATIONS NOTED ON STRUCTURES SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD AND SHALL CONFORM TO THOSE SHOWN ON OTHER DRAWINGS.
8. DESIGN LOADS: BASED ON THE INTERNATIONAL BUILDING CODE,

ROOF LIVE LOAD:	
- DESIGN LIVE LOAD	20 PSF
- COLLATERAL (MISC., HVAC, ELEC.)	10 PSF
ROOF SNOW LOAD	5 PSF
- GROUND SNOW LOAD	
WIND LOAD:	
- ULTIMATE WIND SPEED	120 MPH
- SERVICE WIND SPEED	90 MPH
- RISK CATEGORY	III
- WIND EXPOSURE	C
- INTERNAL PRESSURE COEFFICIENT:	
- ALL BUILDINGS	±0.18
- COMPONENTS AND CLADDING (SEE SPECIFICATIONS)	
EARTHQUAKE DESIGN DATA:	
- SEISMIC RISK CATEGORY	III
- SEISMIC IMPORTANCE FACTOR	1.25
- RISK CATEGORY III STRUCTURE	
- SPECTRAL RESPONSE ACCELERATIONS, S ₁	0.197
- SPECTRAL RESPONSE ACCELERATIONS, S ₂	0.087
- SITE CLASS	D
- SPECTRAL RESPONSE COEFFICIENT, S _{DS}	0.21
- SPECTRAL RESPONSE COEFFICIENT, S _{D1}	0.14
- SEISMIC DESIGN CATEGORY	C
- DESIGN BASE SHEAR:	0.131
- ANALYSIS PROCEDURE	
- FOR BUILDINGS	ASCE 7-10

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL CONFORM TO THE AISC "SPECIFICATIONS FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" LATEST EDITION.
2. WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISED CODE THE AMERICAN WELDING SOCIETY, AWS D1.
3. BOLTS AND BOLTED CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 BOLTS" AS APPROVED BY THE COUNCIL ON RIVETED AND BOLTED JOINTS.
4. STRUCTURAL STEEL:

W-SHAPES AND WT-SHAPES	ASTM A992
CHANNELS	ASTM A572 GRADE 50
TUBE SECTIONS	ASTM A500 GRADE B
ANGLES, PLATES AND BARS	ASTM A36
5. WELDING ELECTRODES SHALL BE E-70XX. FOR WELDING SYMBOLS WITH NO LENGTH DIMENSION GIVEN, THE WELDING SHALL BE CONTINUOUS BETWEEN ABRUPT CHANGES IN DIRECTION. NO INTERMITTENT WELDS SHALL BE PERMITTED, UNLESS OTHERWISE NOTED.
6. ALL REINFORCING STEEL SHALL BE DEFORMED BILLET STEEL CONFORMING TO ASTM A-615 GRADE 60.
7. WELDING OF REINFORCING STEEL IS NOT PERMITTED.
8. ALL ANCHOR BOLTS ARE HEX HEAD EMBEDDED BOLTS AND CONFORM TO ASTM A307 GRADE A UNLESS NOTED OTHERWISE.

MASONRY

1. CONCRETE MASONRY DESIGN AND CONSTRUCTION SHALL CONFORM TO ACI 530/530.1-13, BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES AND NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA) SPECIFICATIONS.
2. GROUT ALL REINFORCED CELLS OF CONCRETE BLOCK MASONRY.
3. MORTAR SHALL BE TYPE S PER ASTM C270. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 2500 PSI AND SHALL CONFORM TO ASTM C476 UNLESS NOTED OTHERWISE.
4. SPLICE #5 AND #7 REBARS IN MASONRY 16" AND 36" RESPECTIVELY.
5. LAP SPLICE AND EMBEDMENT LENGTHS ARE BASED ON A MINIMUM MASONRY COMPRESSIVE STRENGTH OF 1500 PSI AND 60000 PSI FOR REINFORCEMENT (WITH NO EPOXY COATING).
6. COMBINED COMPRESSIVE STRENGTH OF THE MASONRY PRISM SHALL BE 1500 PSI AT 28 DAYS AFTER GROUTING. ALL MASONRY SHALL BE INSPECTED DURING CONSTRUCTION.
7. PROVIDE LIGHTWEIGHT, HOLLOW, LOAD-BEARING CONCRETE-MASONRY UNITS (CMU) CONFORMING TO ASTM C90, GRADE N, TYPE I, UNLESS NOTED OTHERWISE.
8. PROVIDE HORIZONTAL JOINT REINFORCEMENT COMPLYING WITH ASTM A82, NO.9 GAUGE OR HEAVIER, ZINC COATED PLACED 16 INCHES ON CENTER UNLESS NOTED OTHERWISE.
9. PROVIDE MINIMUM 1-#5 VERTICAL, GROUTED FULL HEIGHT, AT EACH SIDE OF OPENINGS AND WALL ENDS. PROVIDE MATCHING DOWELS AT BASE OF ALL REINFORCED WALLS.
10. PROVIDE RUNNING BONDS WITH VERTICAL JOINTS LOCATED AT CENTER OF MASONRY UNITS IN THE ALTERNATE COURSE BELOW, UNLESS NOTED OTHERWISE.
11. HORIZONTAL JOINT REINFORCING IN ADDITION TO VERTICAL AND HORIZONTAL WALL REINFORCING SCHEDULED, ALL WALLS SHALL HAVE HORIZONTAL JOINT REINFORCING WITH A VERTICAL SPACING OF 16" CENTER TO CENTER, MAXIMUM. PROVIDE PREFABRICATED CORNERS AND TEES AT ALL WALL CORNERS AND INTERSECTIONS. SPLICE ALL SECTIONS A MINIMUM OF 12". AT OPENINGS ADD AN ADDITIONAL PIECE ABOVE AND BELOW OPENINGS FOR AN 8" SPACING. EXTEND ADDITIONAL PIECES 2'-0" BEYOND EDGES OF OPENINGS.
12. GROUT SOLID ALL CELLS THAT HAVE REINFORCING BARS. GROUT PLACEMENTS OVER 12" SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION AND AFTER INITIAL SETTLEMENT HAS OCCURRED FROM INITIAL WATER LOSS, RECONSOLIDATED AGAIN BY MECHANICAL VIBRATION.
13. INTERIOR EXPOSED CORNERS SHALL BE BULLNOSE UNITS, SINGLE OR DOUBLE AS APPROPRIATE.
14. INTERIOR NON-LOAD BEARING CMU WALLS SHALL EXTEND TO STRUCTURE ABOVE UNLESS INDICATED OTHERWISE.

SPECIAL INSPECTION NOTES

1. REFER TO 04 00 05 - MASONRY (FOR SMALLER PROJECTS) SPECIFICATION FOR CODE REQUIRED SPECIAL INSPECTIONS.
2. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENTS, AND INCIDENTALS AS REQUIRED TO COOPERATE WITH THE INDIVIDUAL SPECIAL INSPECTORS AND TESTING AGENCIES EMPLOYED BY THE OWNER TO FACILITATE SPECIAL INSPECTIONS.
3. OWNER DESIGNATED AGENCIES FOR SPECIAL INSPECTION SHALL PERFORM ON SITE INSPECTION IN ACCORDANCE WITH LOCAL BUILDING CODE REGULATION UNDER THE SUPERVISION OF A QUALIFIED SPECIAL INSPECTOR LICENSED IN THE STATE OF GEORGIA.
4. DESIGNATED SPECIAL INSPECTION AGENCY IS RESPONSIBLE FOR ALL REQUIRED TESTING, INSPECTION, AND INSPECTION REPORTS. INSPECTOR IS RESPONSIBLE FOR COMPLETING AND PROVIDING TO THE BUILDING OFFICIAL, OWNER, AND ENGINEER A FINAL REPORT OF SPECIAL INSPECTIONS AND CORRECTION OF DISCREPANCIES NOTED IN THE SPECIAL INSPECTION.
5. CONTRACTOR SHALL NOTIFY SPECIAL INSPECTION AGENCY/LABORATORY AT LEAST 48 HOURS PRIOR TO START OF WORK.
6. INSPECTION AND TESTS REQUIRED IN CHAPTER 17 DO NOT SUPERCEDE ANY OTHER INSPECTIONS AND TESTS REQUIRED BY ANY LAW OR REGULATIONS.

ABBREVIATIONS

AB	- ANCHOR BOLT	NTS	- NOT TO SCALE
ADD'L	- ADDITIONAL	OC	- ON CENTER
ADH.	- ADHESIVE	OD	- OUTSIDE DIAMETER
ADJ.	- ADJUSTABLE	OH.	- OVERHEAD
ALT.	- ALTERNATE	OPNG.	- OPENING
ALUM.	- ALUMINUM	OPP.	- OPPOSITE
ANCH.	- ANCHOR	⊔	- PLATE
&	- AND	PC	- PRECAST
ARCH.	- ARCHITECT OR ARCHITECTURAL	PSF	- POUNDS PER SQUARE FOOT
ASTM	- AMERICAN SOCIETY FOR TESTING MATERIALS	RAD.	- RADIUS
⊙	- AT	R.	- RISER
BSMT.	- BASEMENT	REINF.	- REINFORCING
BITUM.	- BITUMINOUS	REQ'D.	- REQUIRED
B/	- BOTTOM OF	REQ'MTS.	- REQUIREMENTS
BOT.	- BOTTOM	RM.	- ROOM
⊔	- BUILDING LINE	RO	- ROUGH OPENING
BLDG.	- BUILDING	S.	- SOUTH
BLK.	- BLOCK	SCHED.	- SCHEDULE
BM.	- BEAM	SECT.	- SECTION
B PL	- BASE PLATE	SF	- SQUARE FEET
BRG.	- BEARING	SHT.	- SHEET
BRP	- BUILDING REFERENCE POINT	SIM.	- SIMILAR
BT PL	- BENT PLATE	SJ	- STEEL JOIST
C/C	- CENTER TO CENTER	SLBB	- SHORT LEG BACK-TO-BACK
CJ	- CONSTRUCTION JOINT	SLV	- SHORT LEG VERTICAL
⊕	- CENTERLINE	SPA.	- SPACES OR SPACING
CL.	- CLEAR	SPRD.	- SPREAD
CMU	- CONCRETE MASONRY UNIT	SS	- STAINLESS STEEL
COL.	- COLUMN	STA.	- STATION
CTR.	- CENTER	STD.	- STANDARD
CONC.	- CONCRETE	STL	- STEEL
CONST.	- CONSTRUCTION	STR.	- STRUCTURAL
CONT.	- CONTINUOUS	SUP.	- SUPPORT
CONTL.	- CONTROL	SYM.	- SYMMETRICAL
DEPR.	- DEPRESSION	T.	- TREAD
DET.	- DETAIL	T/O	- TOP OF
DI	- DIAMETER	T&B	- TOP AND BOTTOM
DIA.	- DIAMETER	TEMP.	- TEMPORARY
DIM.	- DIMENSION	THK.	- THICK
DL	- DEAD LOAD	TOM	- TOP OF MASONRY
DIST.	- DISTANCE	TOS	- TOP OF STEEL
DWG.	- DRAWING	TYP.	- TYPICAL
DWL.	- DOWEL	UON	- UNLESS OTHERWISE NOTED
EA.	- EACH	VERT.	- VERTICAL
EE	- EACH END	W/	- WITH
EJ	- EACH FACE	W.	- WEST
EF	- EXPANSION JOINT	W/O	- WITHOUT
EL.	- ELEVATION	WP	- WORK POINT
ELEC.	- ELECTRICAL	WS	- WATER STOP
E.	- EAST	WT	- WEIGHT
EMBD.	- EMBEDDED	WWF	- WELDED WIRE FABRIC
EW	- EACH WAY		
EQ.	- EQUAL		
EXIST.	- EXISTING		
EXP.	- EXPANSION		
EXT.	- EXTERIOR		
FDN.	- FOUNDATION		
FE	- FIRE EXTINGUISHER		
FIN.	- FINISH		
FL	- FINISH LINE		
FLR.	- FLOOR		
FRP	- FIBERGLASS REINFORCED PLASTIC		
FF	- FAR FACE		
FTG.	- FOOTING		
FT.	- FOOT		
GA.	- GAGE		
GALV.	- GALVANIZED		
GR.	- GRADE		
GRD.	- GROUND		
GYP BD	- GYPSUM BOARD		
HORIZ.	- HORIZONTAL		
HP	- HIGH POINT		
HHP	- HIGH HIGH POINT		
HR.	- HANDRAIL		
HT.	- HEIGHT		
HS	- HIGH STRENGTH		
HSS	- HOLLOW STRUCTURAL SECTION		
ID	- INSIDE DIAMETER		
IF	- INSIDE FACE		
INT.	- INTERIOR		
INV.	- INVERT		
INSUL.	- INSULATION		
JT.	- JOINT		
K.	- KIP (1000 POUNDS)		
KB	- KNEE BRACE		
LB.	- LBS		
LL	- LIVE LOAD		
LLBB	- LONG LEG BACK-TO-BACK		
LG.	- LONG		
LLH	- LONG LEG HORIZONTAL		
LLV	- LONG LEG VERTICAL		
LONG.	- LONGITUDINAL		
LP	- LOW POINT		
LW	- LIGHT WEIGHT		
MFG.	- MANUFACTURER		
MAS.	- MASONRY		
MAX.	- MAXIMUM		
MID.	- MIDDLE		
MIN.	- MINIMUM		
MK.	- MARK		
MO	- MASONRY OPENING		
NA	- NOT APPLICABLE		
N.	- NORTH		
NF	- NEAR FACE		

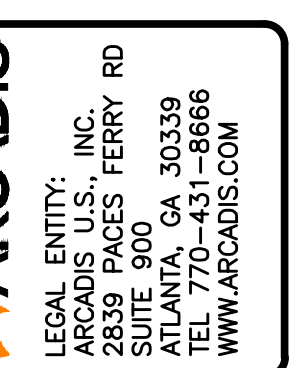
SYMBOLS

	UNDISTURBED SOIL
	ROCK
	SUBBASE
	MUDMAT
	SELECT BACKFILL
	GENERAL FILL
	GRATING
	STEEL
	CHECKERED PLATE
	BRICK
	CMU
	CONCRETE
	GROUT



REVISIONS	
No.	DESCRIPTION
A	60% SUBMITTAL
B	100% SUBMITTAL

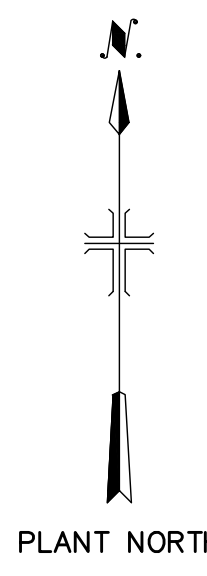
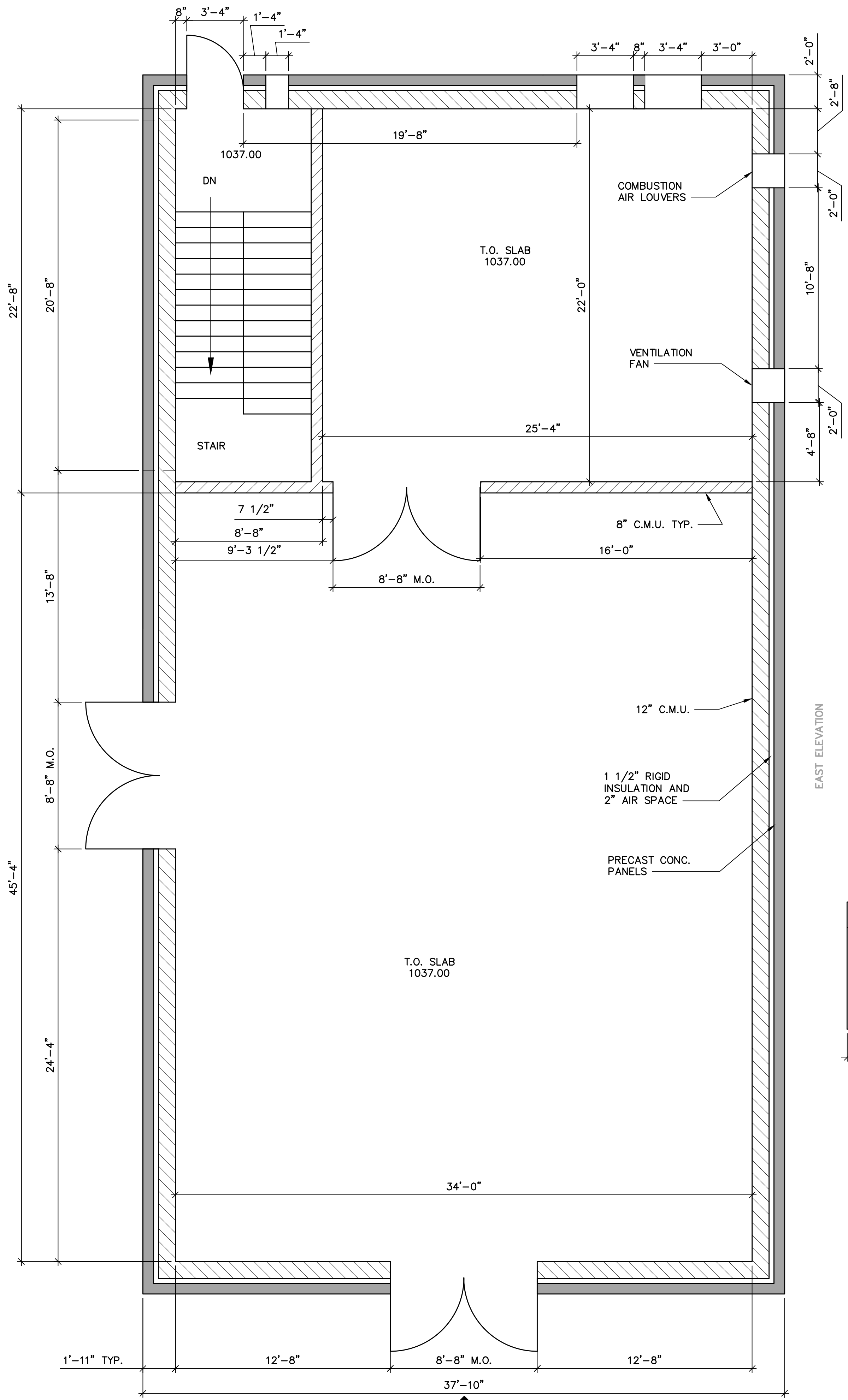
STRUCTURAL GENERAL NOTES, ABBREVIATIONS AND SYMBOLS



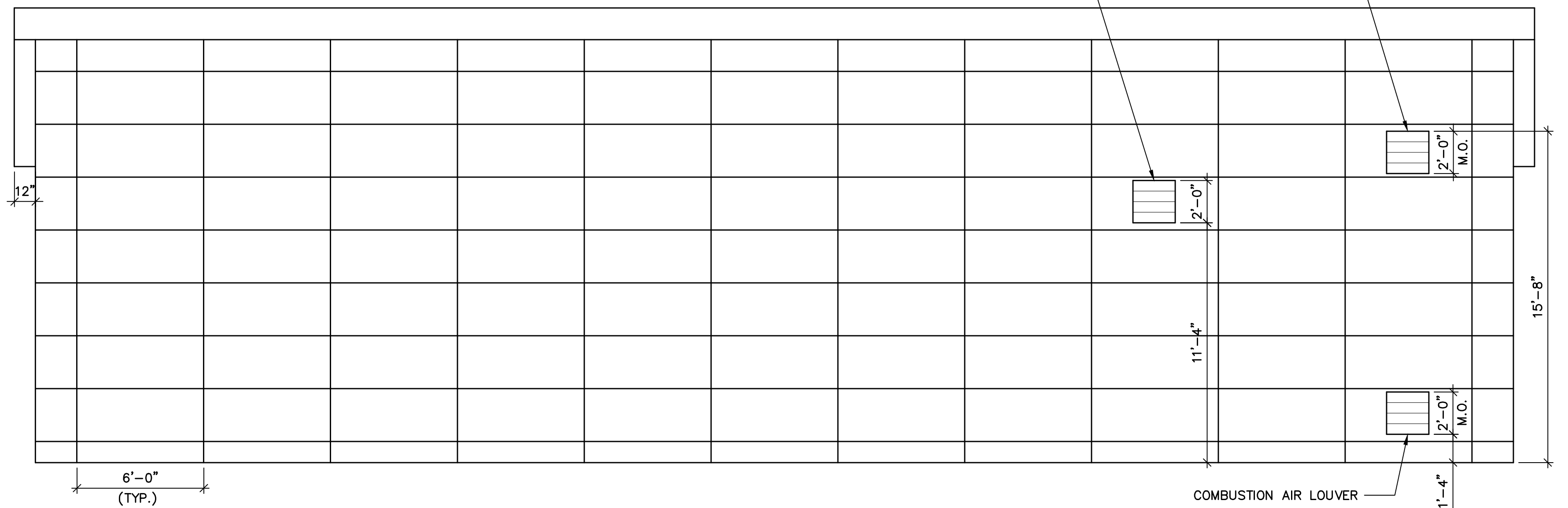
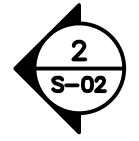
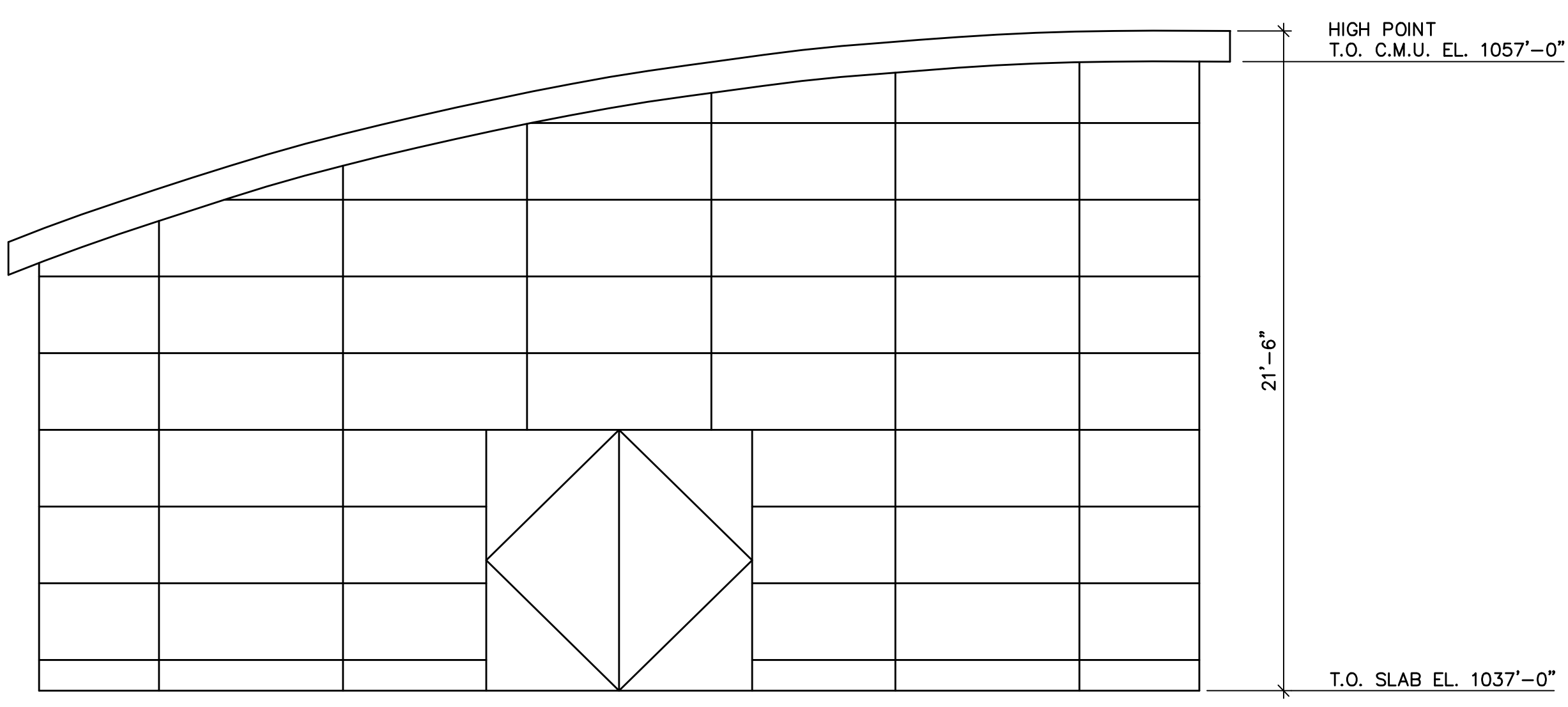
DESIGNED BY:	B. BHADRA
DRAWN BY:	A. CANNON
CHECKED BY:	D. DUNCAN
DATE:	MAY 2019
FILE NAME:	S-01

DRAWING S-01

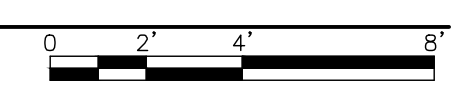
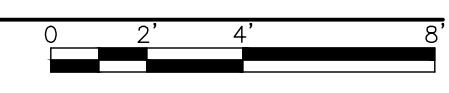
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LOW POINT
T.O. C.M.U. EL. 1051'-0"



ELECTRICAL BUILDING NO. 2 FLOOR PLAN
SCALE: 1/4" = 1'-0"



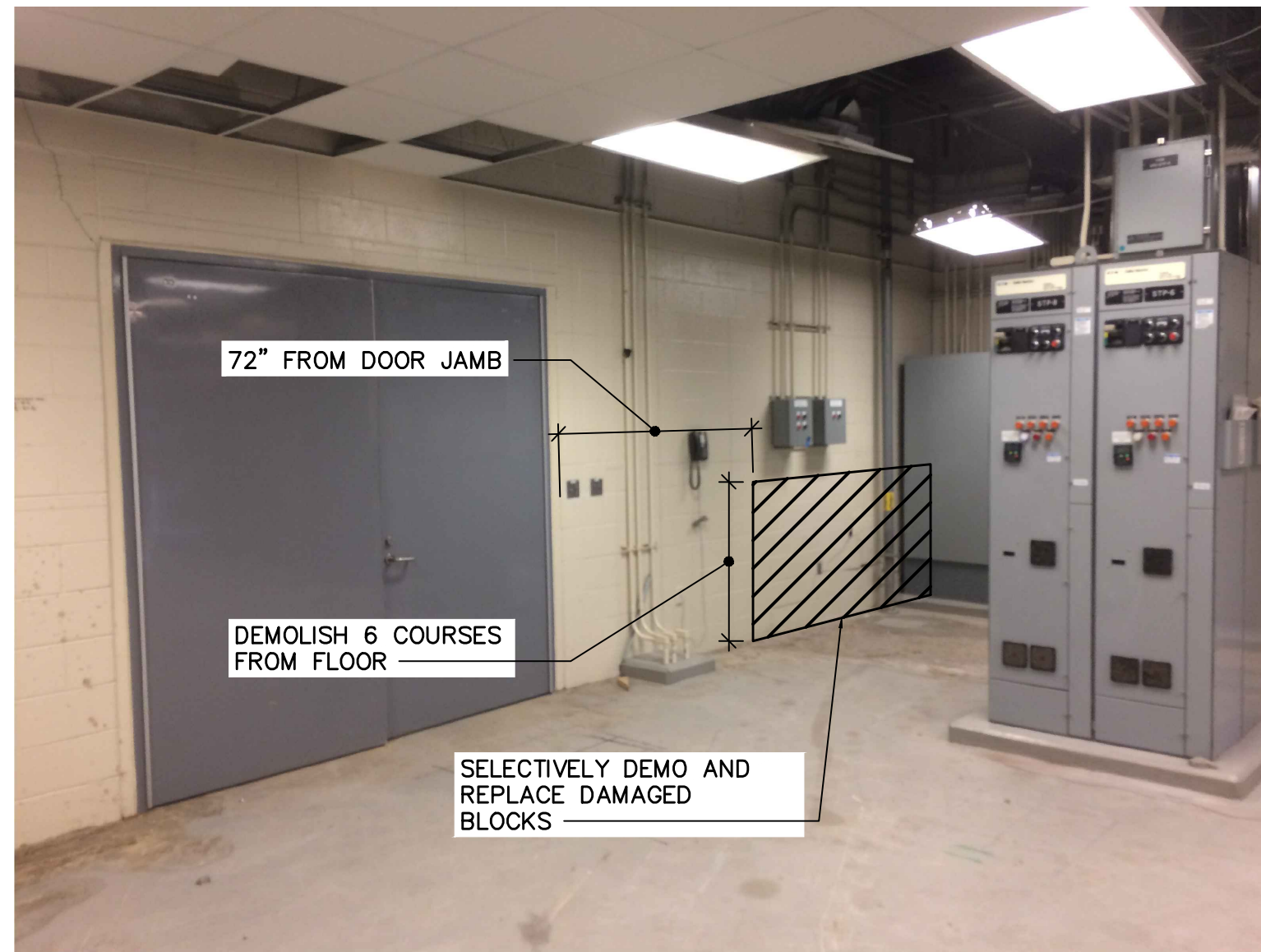
REVISIONS	
No.	DESCRIPTION
A	60% SUBMITTAL
B	100% SUBMITTAL

STRUCTURAL EXISTING PLAN AND ELEVATION VIEWS

ARCADIS
LEGAL ENTITY: INC.
ARCADIS U.S., INC.
2839 PACES FERRY RD
DUBLIN, GA 30339
ATLANTA, GA 30339
TEL 770-431-8666
WWW.ARCADIS.COM

DESIGNED BY: B. BHADRA
DRAWN BY: A. CANNON
CHECKED BY: D. DUNCAN
DATE: MAY 2019
FILE NAME: S-02

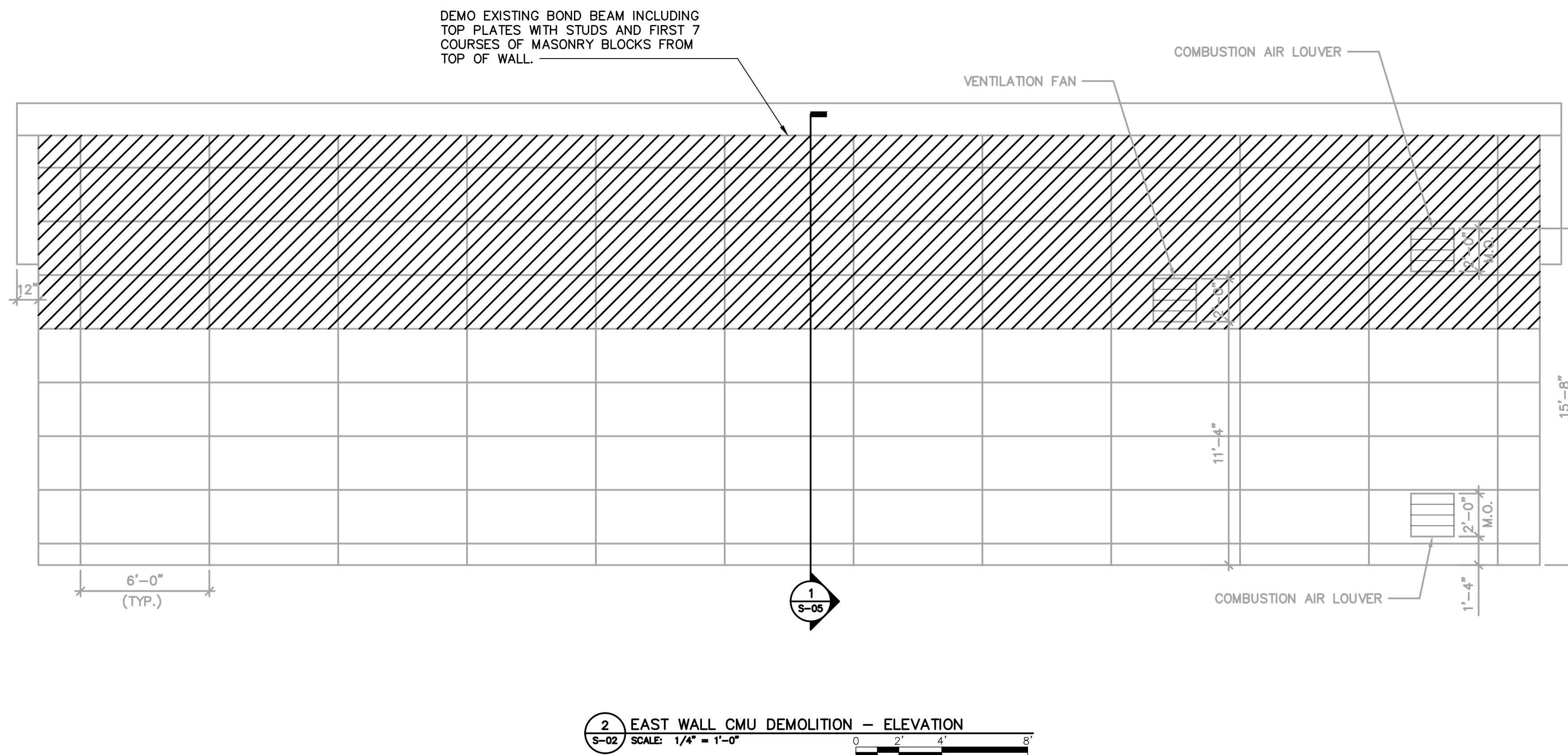
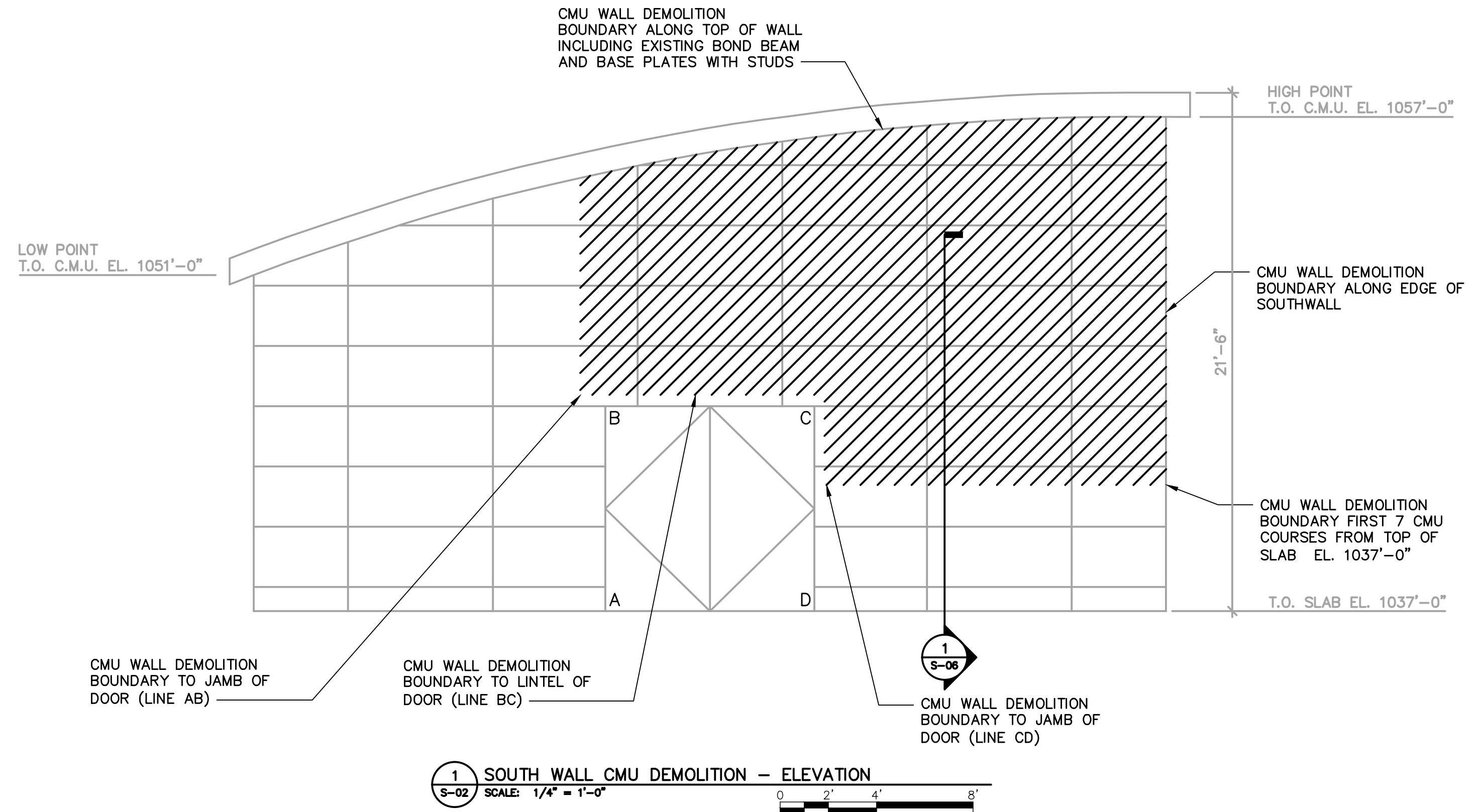
DRAWING: **S-02**



NOTE:

1. DEMOLISH MASONRY COURSES BEYOND 72" FROM DOOR JAMB AND 6 COURSES FROM FLOOR AS SHOWN.
2. HATCHED AREA INDICATES CMU WALL AREA TO BE DEMOLISHED AND REPLACED TO MATCH EXISTING.

INTERIOR EAST-WEST PARTITION WALL DEMOLITION AND REPAIR
NOT TO SCALE



LEGEND:

////// APPROXIMATE DEMOLITION BOUNDARY

NOTE: HATCHED CMU WALL AREA TO BE DEMOLISHED.



REVISIONS	
No.	DESCRIPTION
A	60% SUBMITTAL
B	100% SUBMITTAL

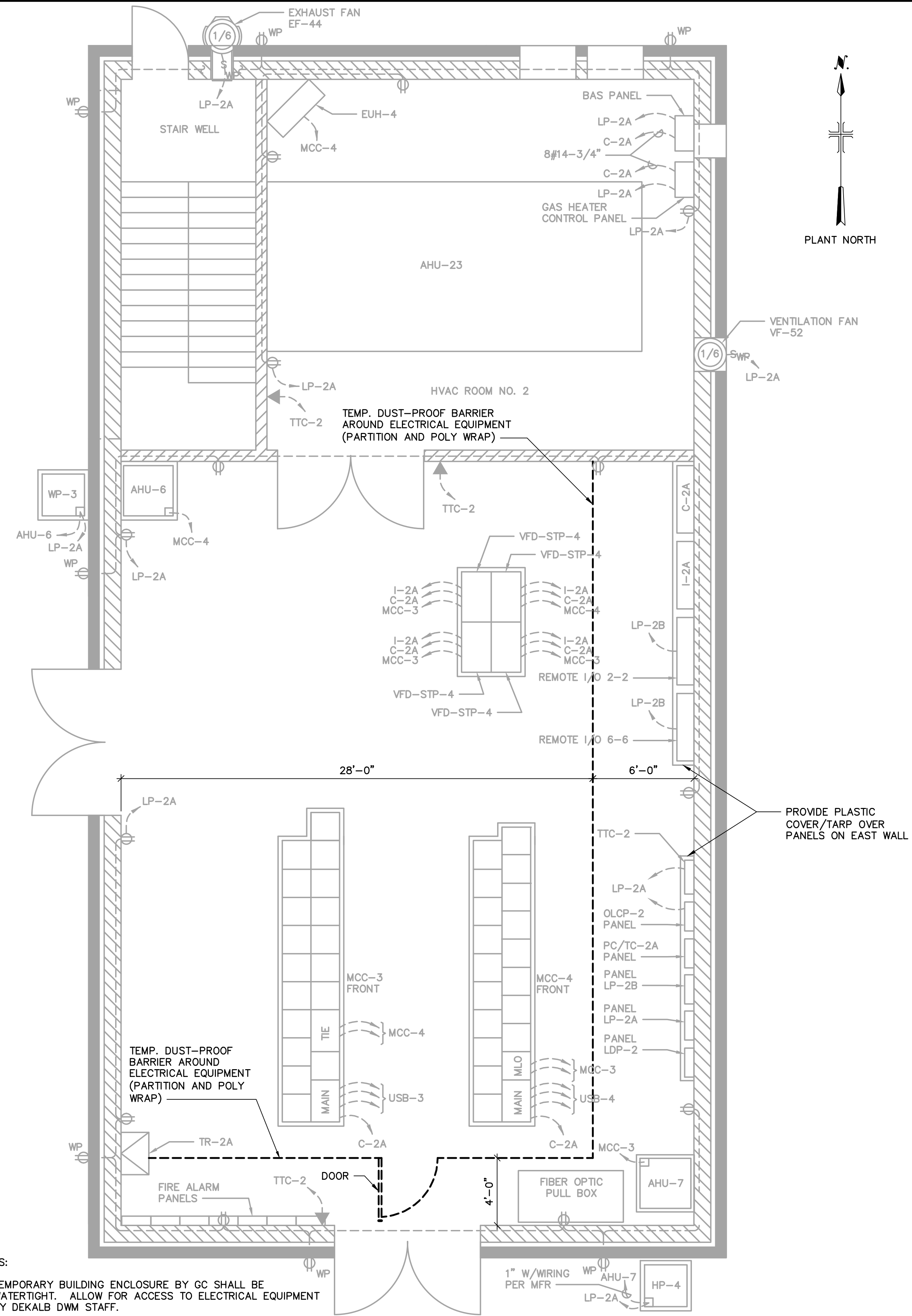
STRUCTURAL
CMU WALL DEMOLITION -- ELEVATION

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2839 PACES FERRY RD
ATLANTA, GA 30339
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DESIGNED BY: B. BHADRA
DRAWN BY: A. CANNON
CHECKED BY: D. DUNCAN
DATE: MAY 2019
FILE NAME: S-03

DRAWING
S-03

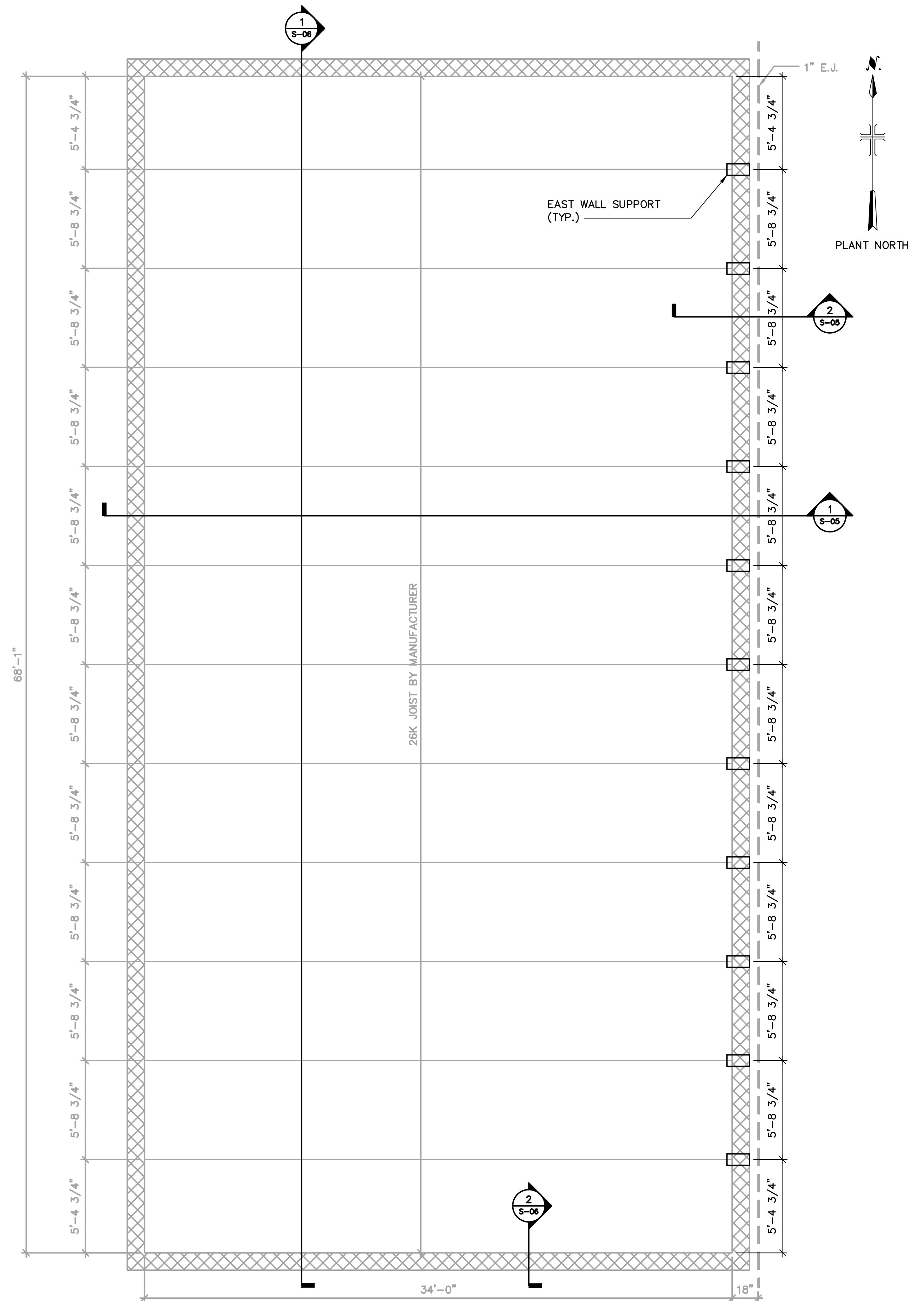
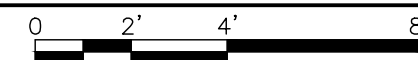
User: CANNON, Spec: AUS-INCS300, File: \\ARCADIS-US\OFFICE\DATA\ATLANTA-GA\WMA\DEKALB\WATERSHED\2016_1034377\ENGINEERING SERVICES\GADEK014_SCOTT_GANDLER_ELECTRICAL\BLOG 2\STRUCTURAL DESIGN\DRAWINGS\SHEETS\STRUCTURAL\S-04.DWG, Scale: 1:1, Saved: 05/24/2019 14:25:14, User: CANNON, Date: 5/24/2019 14:25:14, User: CANNON



NOTES:

1. TEMPORARY BUILDING ENCLOSURE BY GC SHALL BE WATERTIGHT. ALLOW FOR ACCESS TO ELECTRICAL EQUIPMENT BY DEKALB DWM STAFF.
2. INTERIOR DUST-PROOF PARTITION BY GC SHALL BE DUST TIGHT. PROTECT ELECTRICAL EQUIPMENT FROM CONSTRUCTION AND ALLOW DEKALB DWM ACCESS TO ELECTRICAL PANELS.
 - 2.a. PROVIDE COMBINATION OF PLYWOOD PARTITIONS AND POLYVINYL WRAP
 - 2.b. PROVIDE TEMPORARY HEATING, VENTILATION AND AIR CONDITIONING TO SPACE INSIDE AND OUTSIDE OF DUST-PROOF PARTITION. MAINTAIN AREAS AT 60° F FOR HEATING, AND 75° F AND LESS THAN 60% RELATIVE HUMIDITY FOR COOLING.

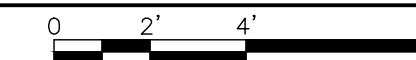
ELECTRICAL BUILDING NO. 2 INTERIOR DUST ENCLOSURE LAYOUT
SCALE: 1/4" = 1'-0"



NOTES:

1. CMU WALL CORNER TO BE REPAIRED TO MATCH EXISTING DETAILS.
2. DEMO SOUTH WALL AS SHOWN IN SOUTH WALL CMU DEMOLITION-ELEVATION ON S-03 AND REPLACE TO MATCH EXISTING DETAILS. INSTALL TOP PLATES AT EXISTING LOCATIONS OF HSS ON TOP OF SOUTH WALL PER DETAIL 2 ON S-06.

TOP OF CMU WALL
SCALE: 1/4" = 1'-0"



REVISIONS	
No.	DESCRIPTION
A	60% SUBMITTAL
B	100% SUBMITTAL

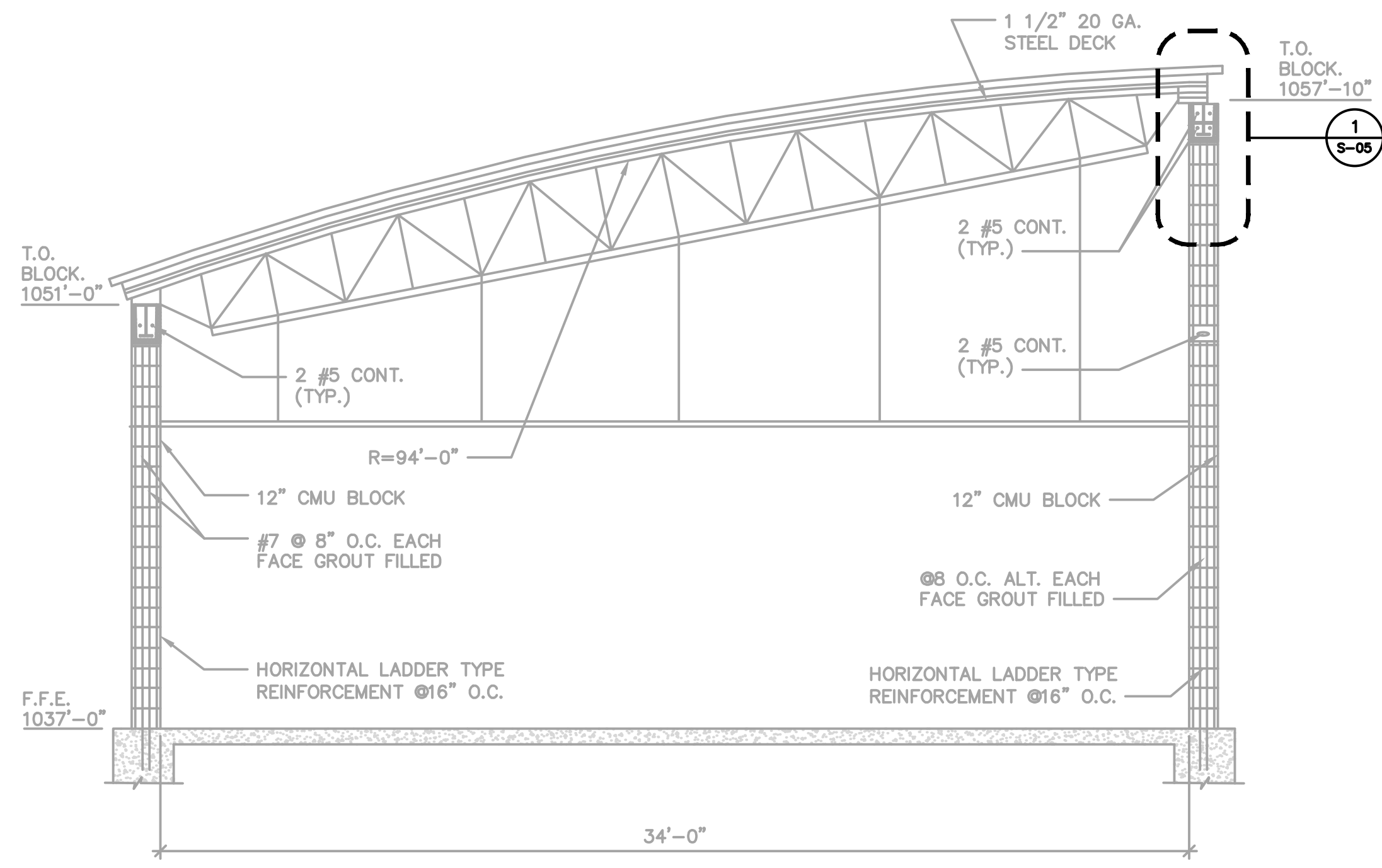
STRUCTURAL
CMU WALL REPAIR - PLAN

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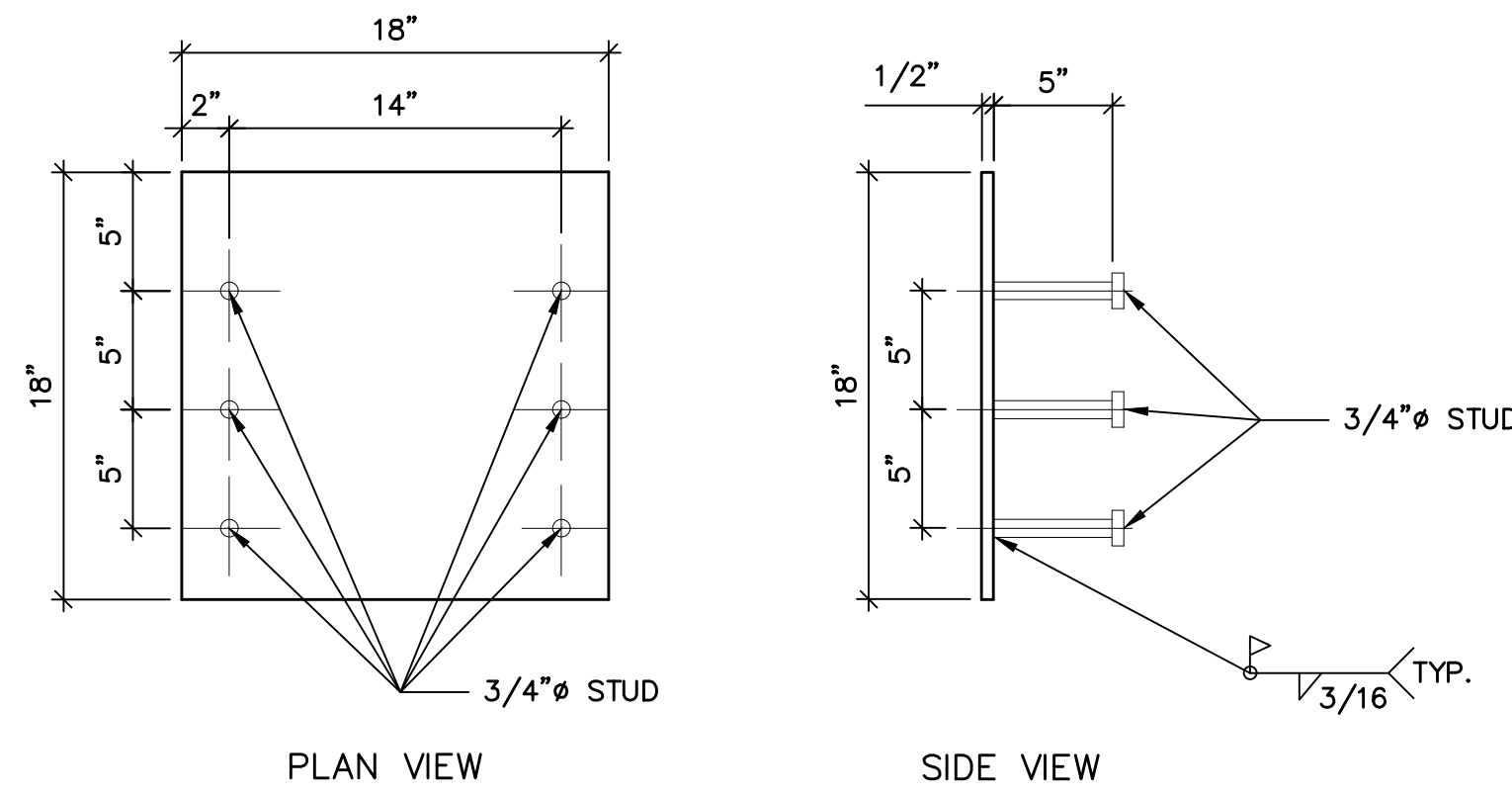
DESIGNED BY: B. BHADRA
DRAWN BY: A. CANNON
CHECKED BY: D. DUNCAN
DATE: MAY 2019
FILE NAME: S-04

DRAWING: **S-04**

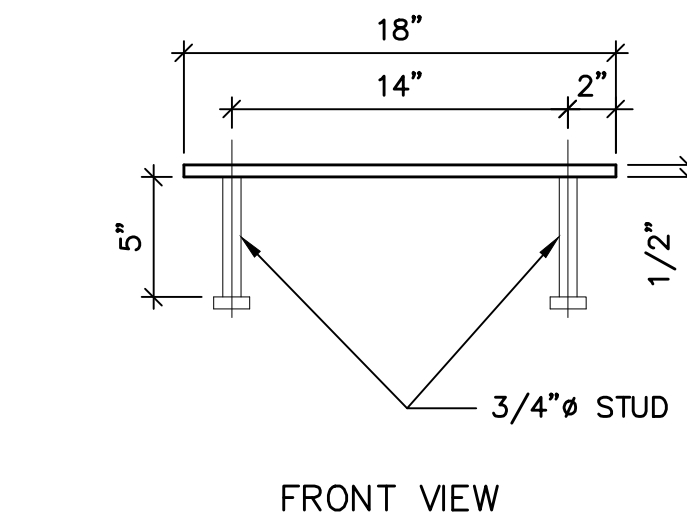
User: CANNON, Spec: AUS-NC5300D, File: \\ARCADIS-US\OFFICE\DATA\ATLANTA-GA\WMA\DEKALB\WATERSHED\2016_1034377_ENGINEERING_SERVICES\GADK014_SCOTT_CANDLER_ELECTRICAL_BLDG_2\STRUCTURAL_DRAWINGS\SHEETS\STRUCTURAL\S-05.DWG, Sheet: 11, Saved Date: 5/24/2019, Time: 11:37, Plot Date: Cannon, Annex: 5/24/2019, 14:24, Location: L:\work



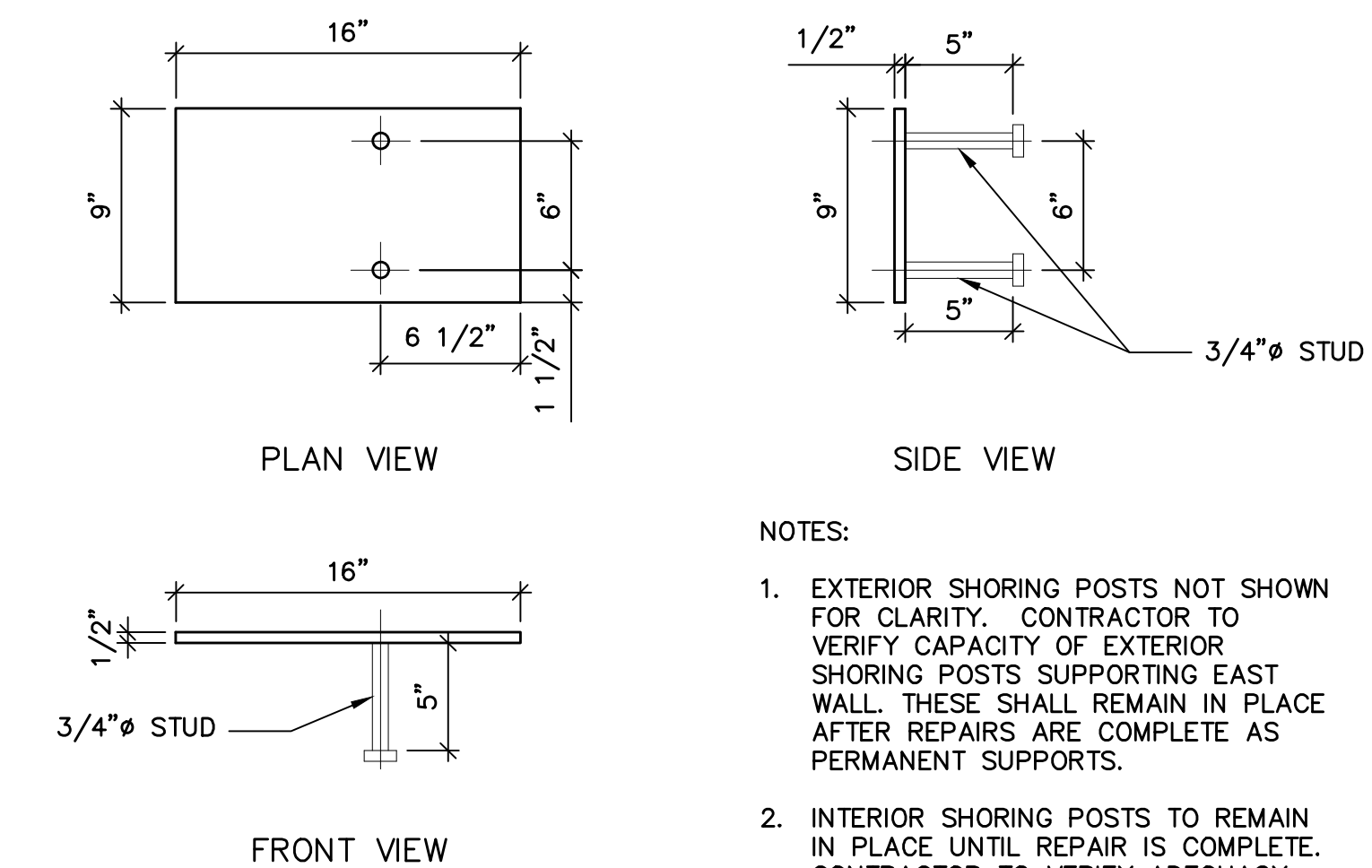
1 ELECTRICAL BUILDING #2 SECTION
SCALE: 1/4" = 1'-0"



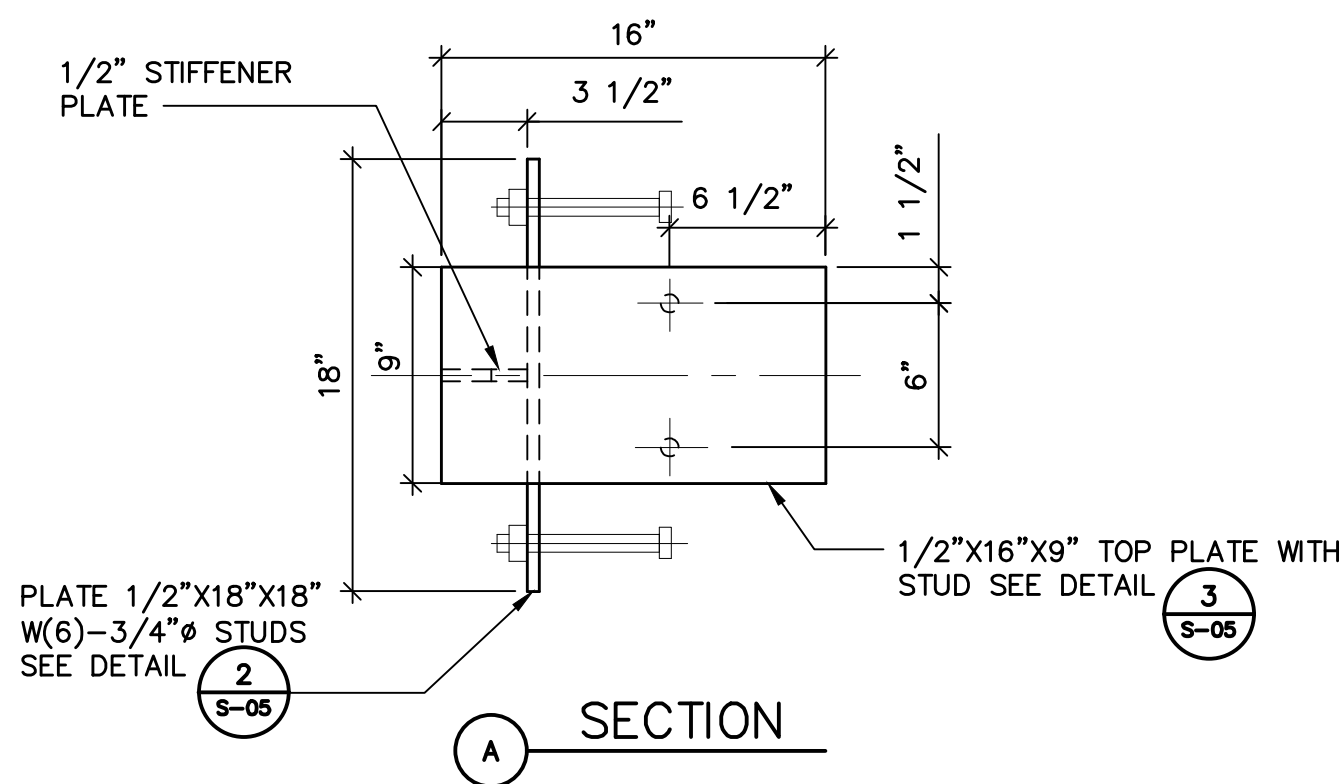
2 1/2"X16"X9" BASE PLATE WITH STUD DETAIL
SCALE: 1 1/2" = 1'-0"



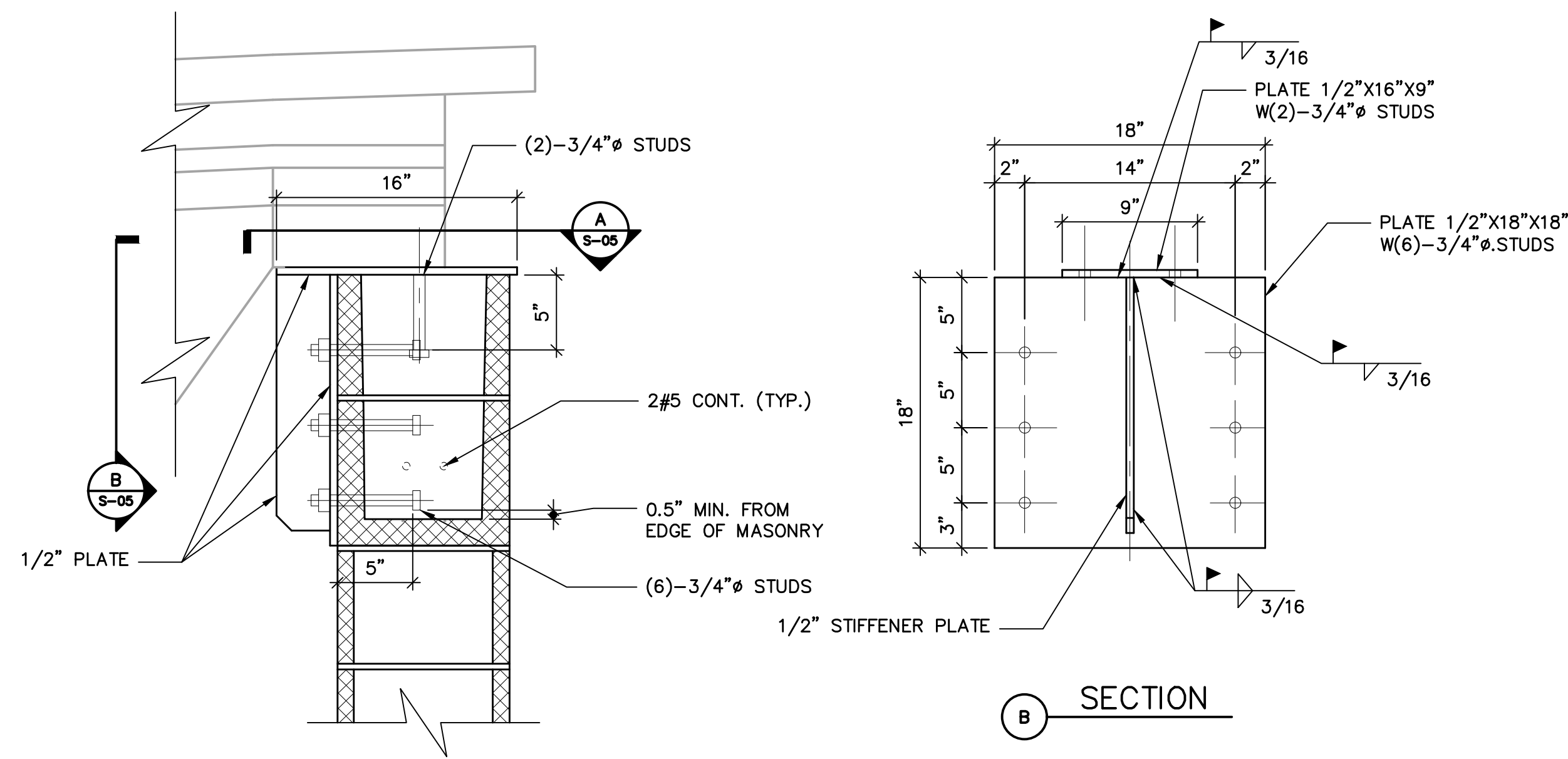
2 1/2"X16"X9" BASE PLATE WITH STUD DETAIL
SCALE: 1 1/2" = 1'-0"



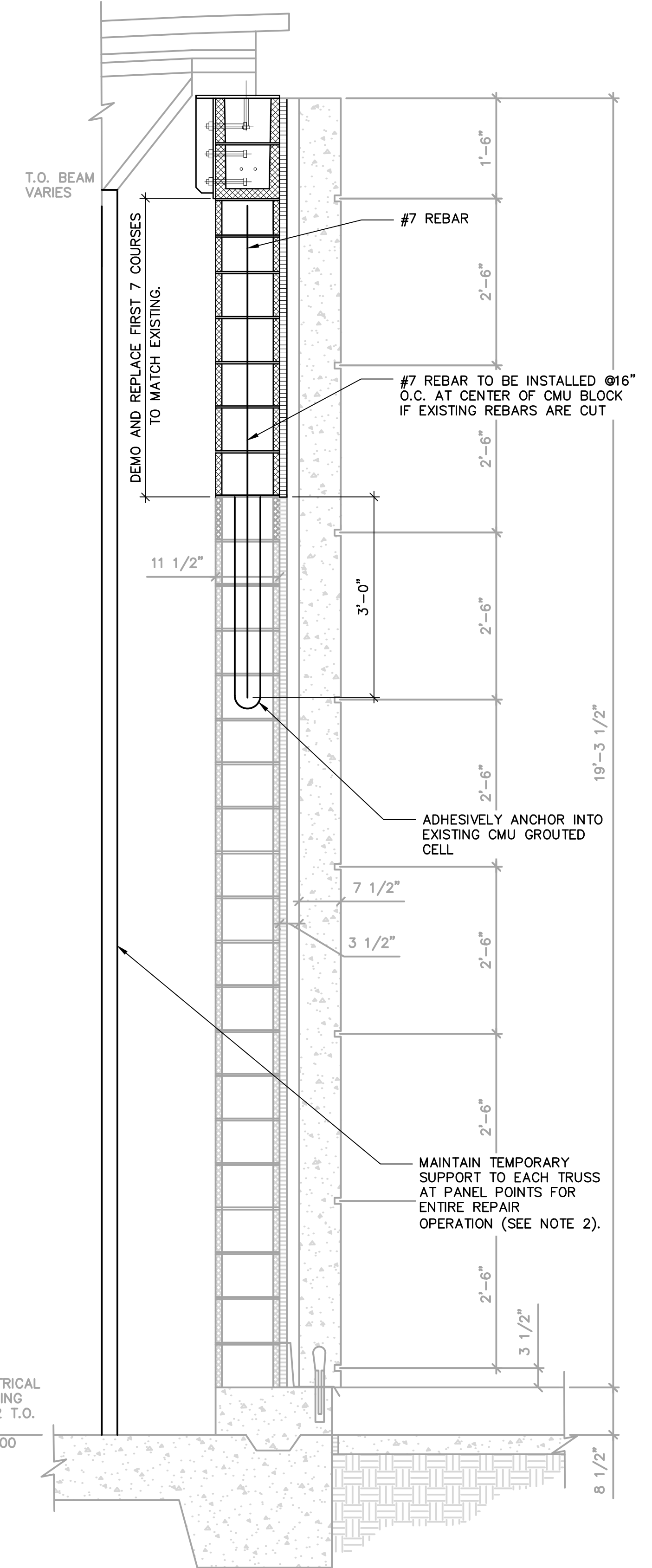
3 1/2"X18"X18" BASE PLATE WITH STUD DETAIL
SCALE: 1 1/2" = 1'-0"



2 1/2"X16"X9" TOP PLATE WITH STUD SEE DETAIL
SCALE: 1 1/2" = 1'-0"



1 EAST WALL TRUSS BEARING CONNECTION DETAIL
SCALE: 1 1/2" = 1'-0"



2 EAST WALL REPAIR SECTION
SCALE: 3/4" = 1'-0"

- NOTES:
- EXTERIOR SHORING POSTS NOT SHOWN FOR CLARITY. CONTRACTOR TO VERIFY CAPACITY OF EXTERIOR SHORING POSTS SUPPORTING EAST WALL. THESE SHALL REMAIN IN PLACE AFTER REPAIRS ARE COMPLETE AS PERMANENT SUPPORTS.
 - INTERIOR SHORING POSTS TO REMAIN IN PLACE UNTIL REPAIR IS COMPLETE. CONTRACTOR TO VERIFY ADEQUACY FOR ALL CONSTRUCTION LOADS.



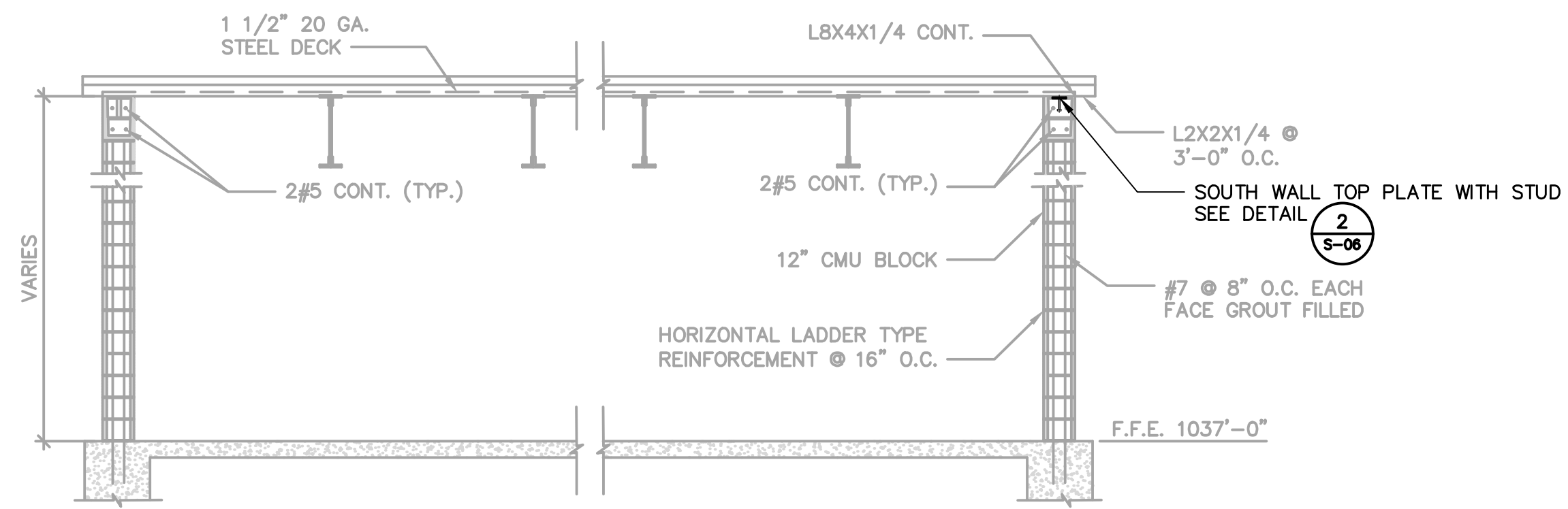
REVISIONS	
No.	DESCRIPTION
A	60% SUBMITTAL
B	100% SUBMITTAL

STRUCTURAL
EAST WALL REPAIR - SECTIONS AND DETAILS

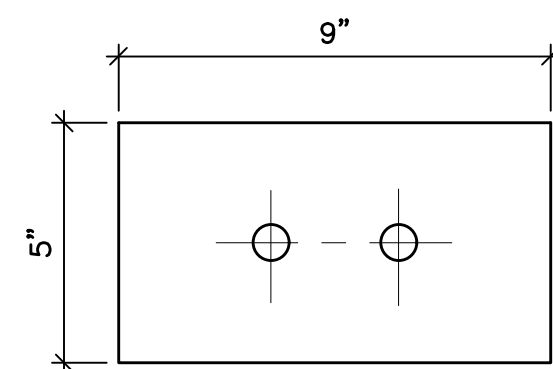
ARCADIS
LEGAL ENTITY: U.S., INC.
ARCADIS U.S., INC.
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TEL 770-431-8666
WWW.ARCADIS.COM

DESIGNED BY: B. BHADRA
DRAWN BY: A. CANNON
CHECKED BY: D. DUNCAN
DATE: MAY 2019
FILE NAME: S-05

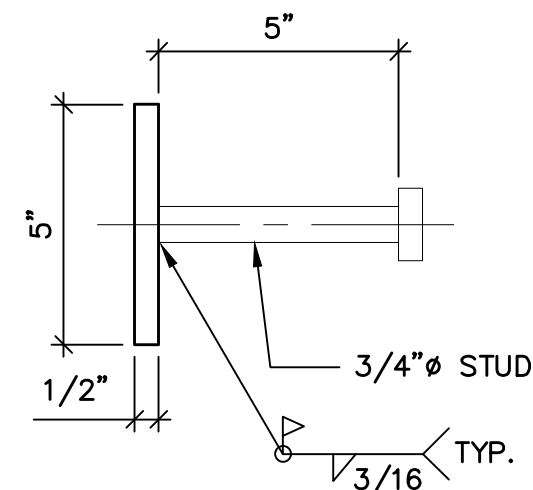
DRAWING
S-05



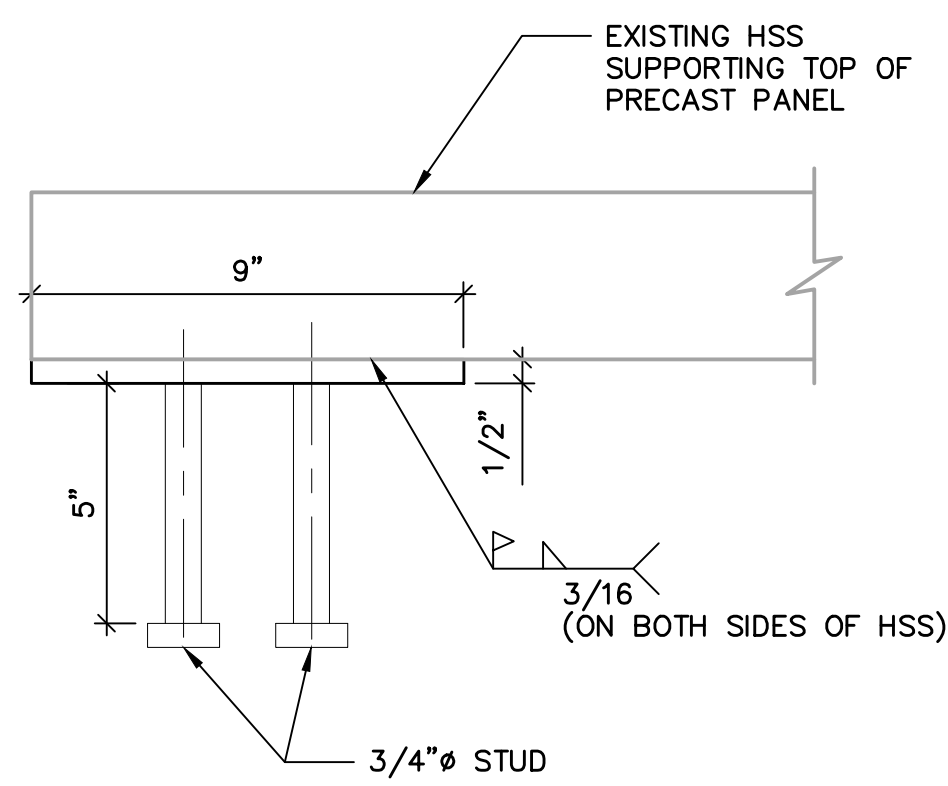
1 SOUTH WALL BEARING CONNECTION SECTION
 SCALE: 1/4" = 1'-0"
 0 2' 4' 8'



PLAN VIEW



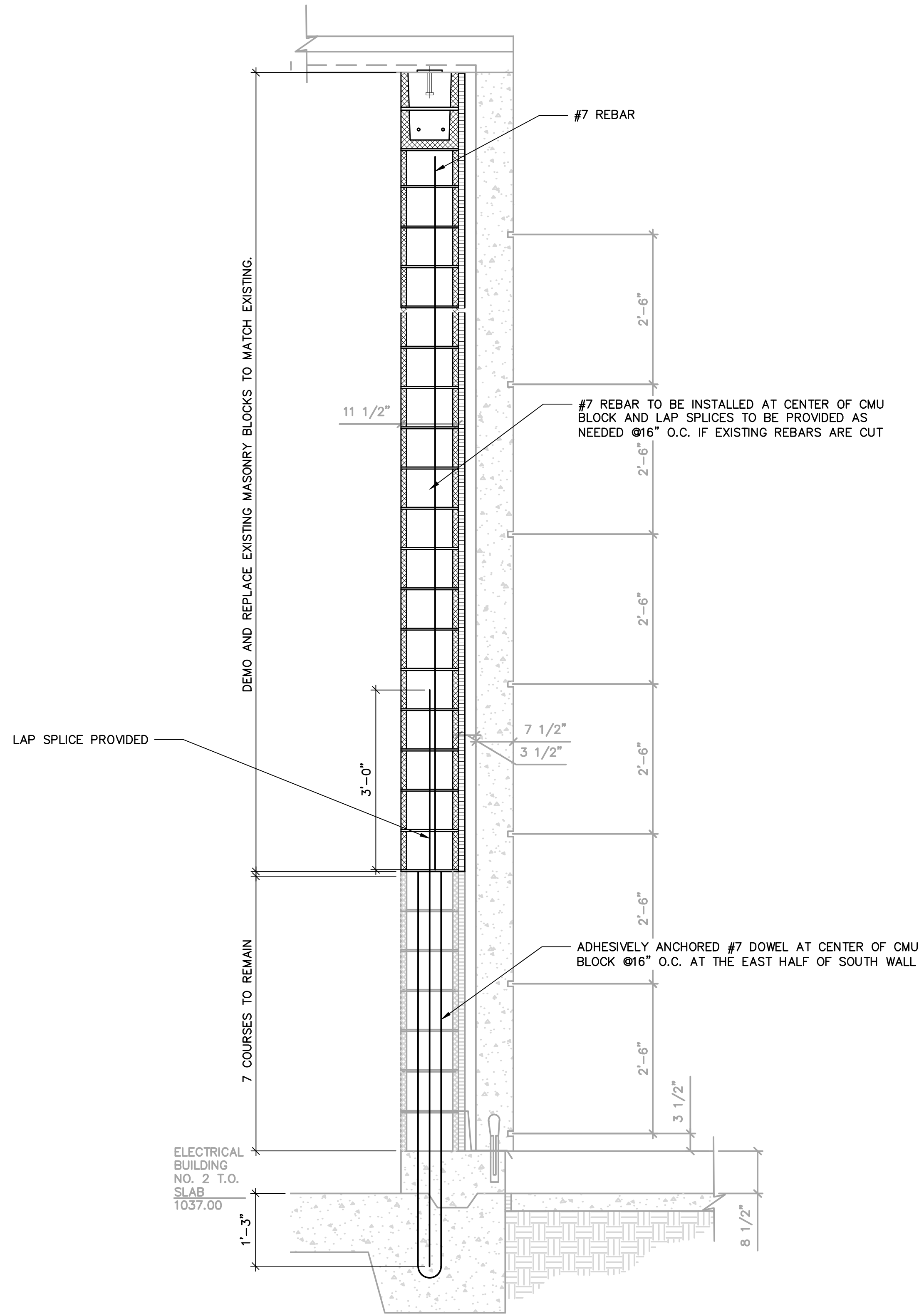
SIDE VIEW



FRONT VIEW

NOTE: TOP PLATES TO BE WELDED TO EXISTING HSS SUPPORTS ONLY.

2 SOUTH WALL TOP PLATE WITH STUD DETAIL
 SCALE: 3" = 1'-0"
 0 3" 6" 9"



2 SOUTH WALL REPAIR SECTION
 SCALE: 1 1/2" = 1'-0"
 0 1' 2' 3'



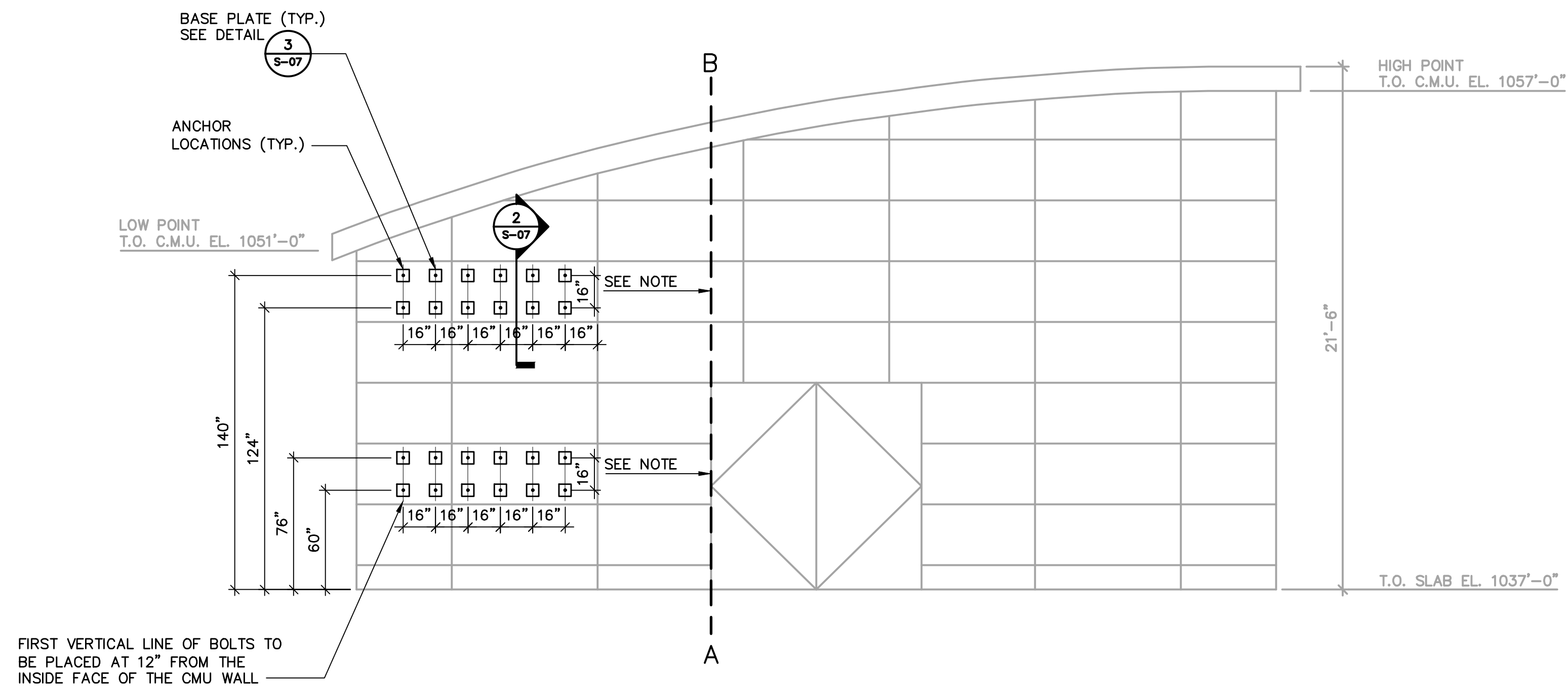
REVISIONS		DESCRIPTION
No.	DATE	DESCRIPTION
A	04-26-2019	60% SUBMITTAL
B	05-2019	100% SUBMITTAL

STRUCTURAL
**SOUTH WALL REPAIR –
 SECTIONS AND DETAIL**

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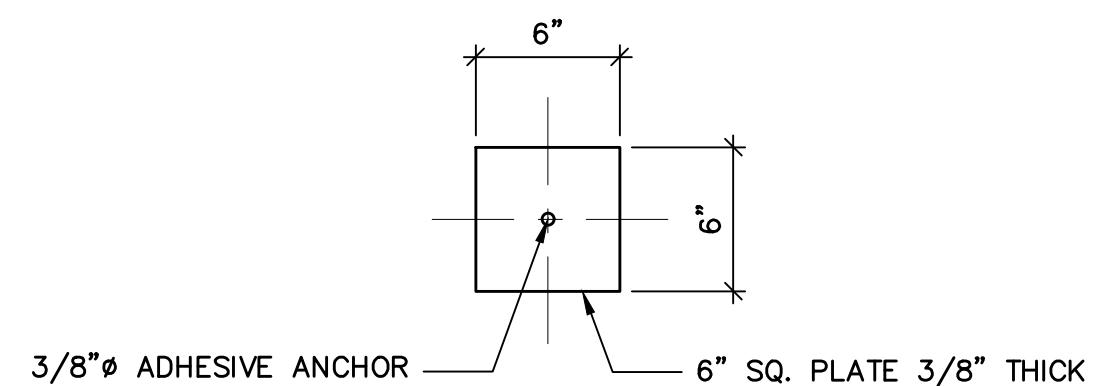
DESIGNED BY: B. BHADRA
 DRAWN BY: A. CANNON
 CHECKED BY: D. DUNCAN
 DATE: MAY 2019
 FILE NAME: S-06

DRAWING
S-06

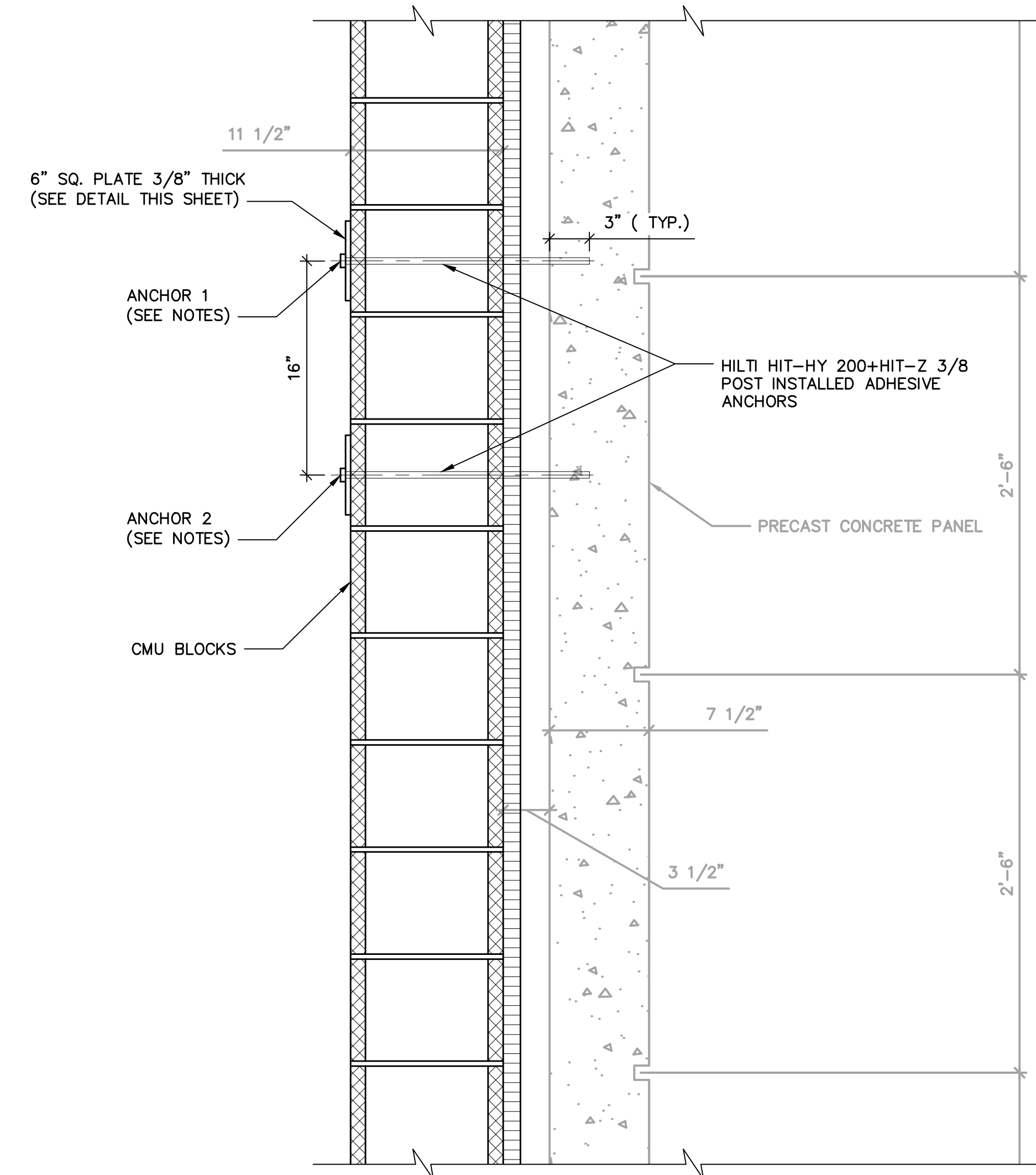


NOTE: ADHESIVE ANCHORS TO BE INSTALLED @16" O.C. HORIZONTAL AND VERTICAL AS SHOWN WITH HORIZONTAL SPACING OF 16" TO DOOR JAMB LINE "AB" AS SHOWN.

1 SOUTH WALL PRECAST CONCRETE PANEL SUPPLEMENTARY LATERAL SUPPORT
S-02 NOT TO SCALE



3 PLATE DETAIL
S-07 SCALE: 1 1/2" = 1'-0"



NOTES:

- ADHESIVE ANCHORS ARE DRILLED FROM INSIDE THROUGH CMU BLOCK AND SECURED BY 6" SQUARE PLATE AS SHOWN.
- ANCHOR 1 AND ANCHOR 2 TO BE PLACED @16" O.C. ON WESTERN HALF OF SOUTH WALL AT LOCATIONS INDICATED ON SOUTH WALL PRECAST CONCRETE PANEL SUPPLEMENTARY LATERAL SUPPORT DETAIL ON THIS SHEET

2 ADHESIVE ANCHOR SECTION
S-07 SCALE: 1 1/2" = 1'-0"



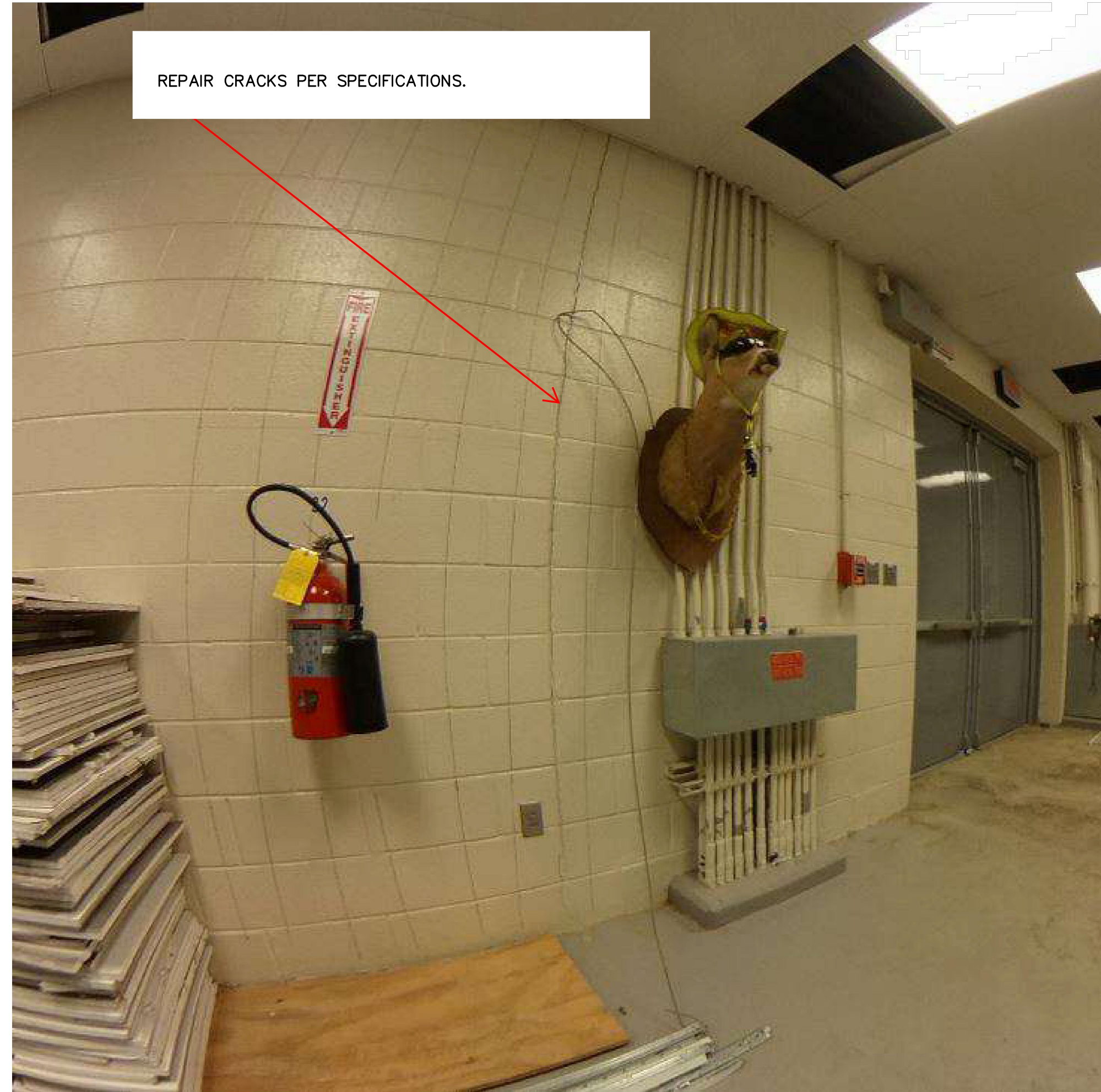
REVISIONS		
No.	DATE	DESCRIPTION
A	04-25-2019	60% SUBMITTAL
B	05-2019	100% SUBMITTAL

STRUCTURAL
**SOUTH WALL PRECAST PANEL
SUPPORT**

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ARCADIS U.S., INC.
2839 PACES FERRY RD
ATLANTA, GA 30339
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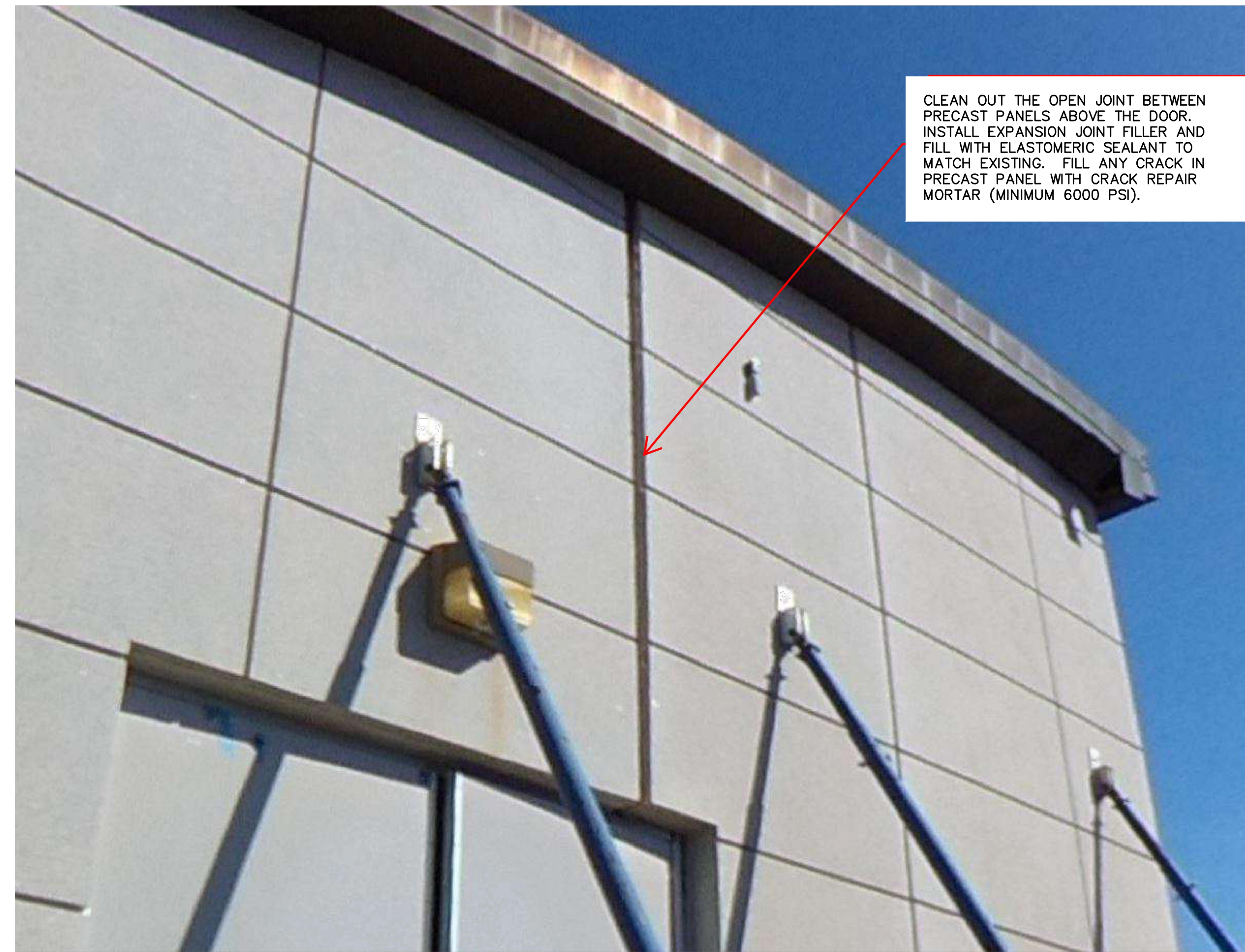
DESIGNED BY: B. BHADRA
DRAWN BY: A. CANNON
CHECKED BY: D. DUNCAN
DATE: MAY 2019
FILE NAME: S-07

DRAWING
S-07



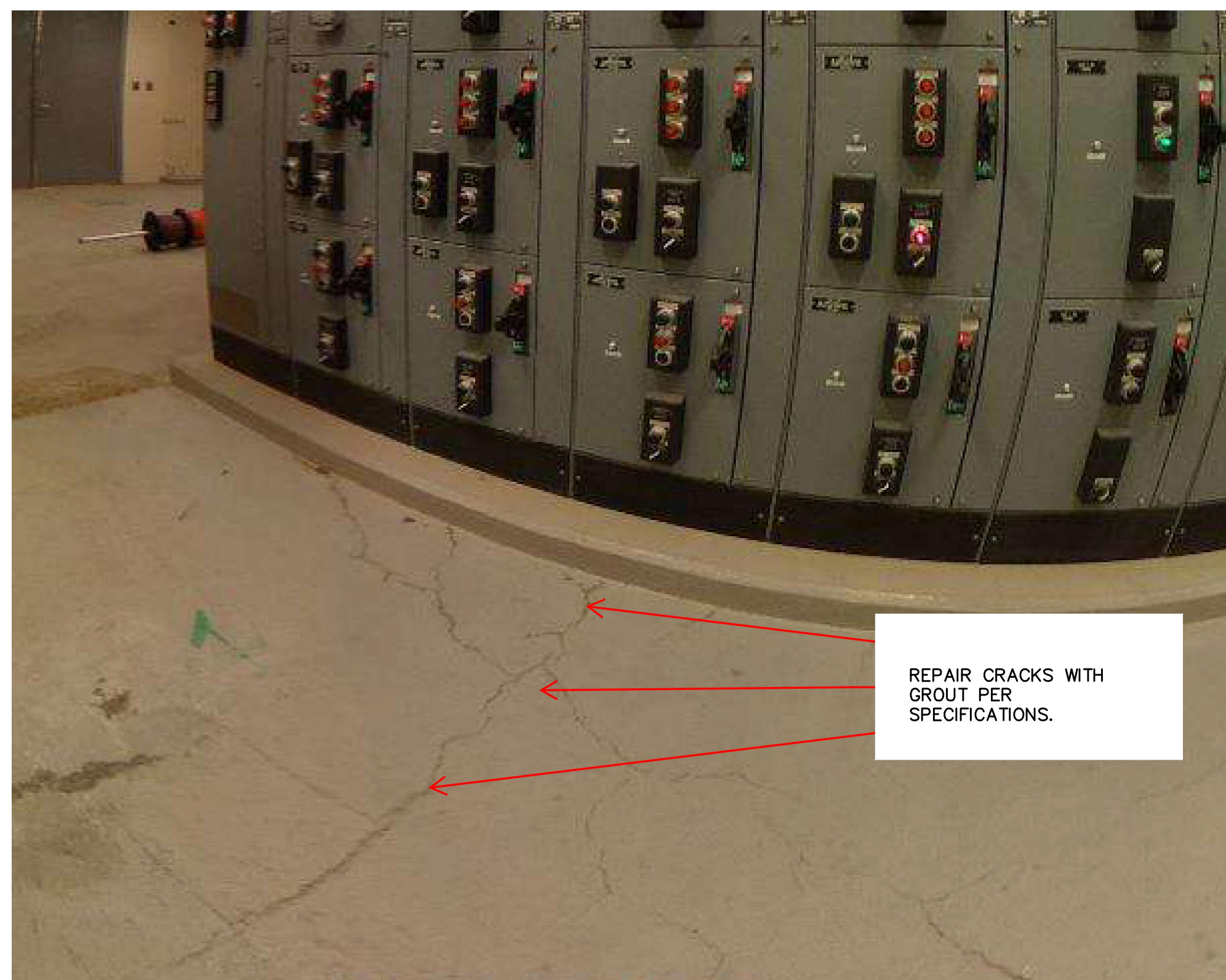
REPAIR CRACKS PER SPECIFICATIONS.

WEST WALL CRACK REPAIR
NOT TO SCALE



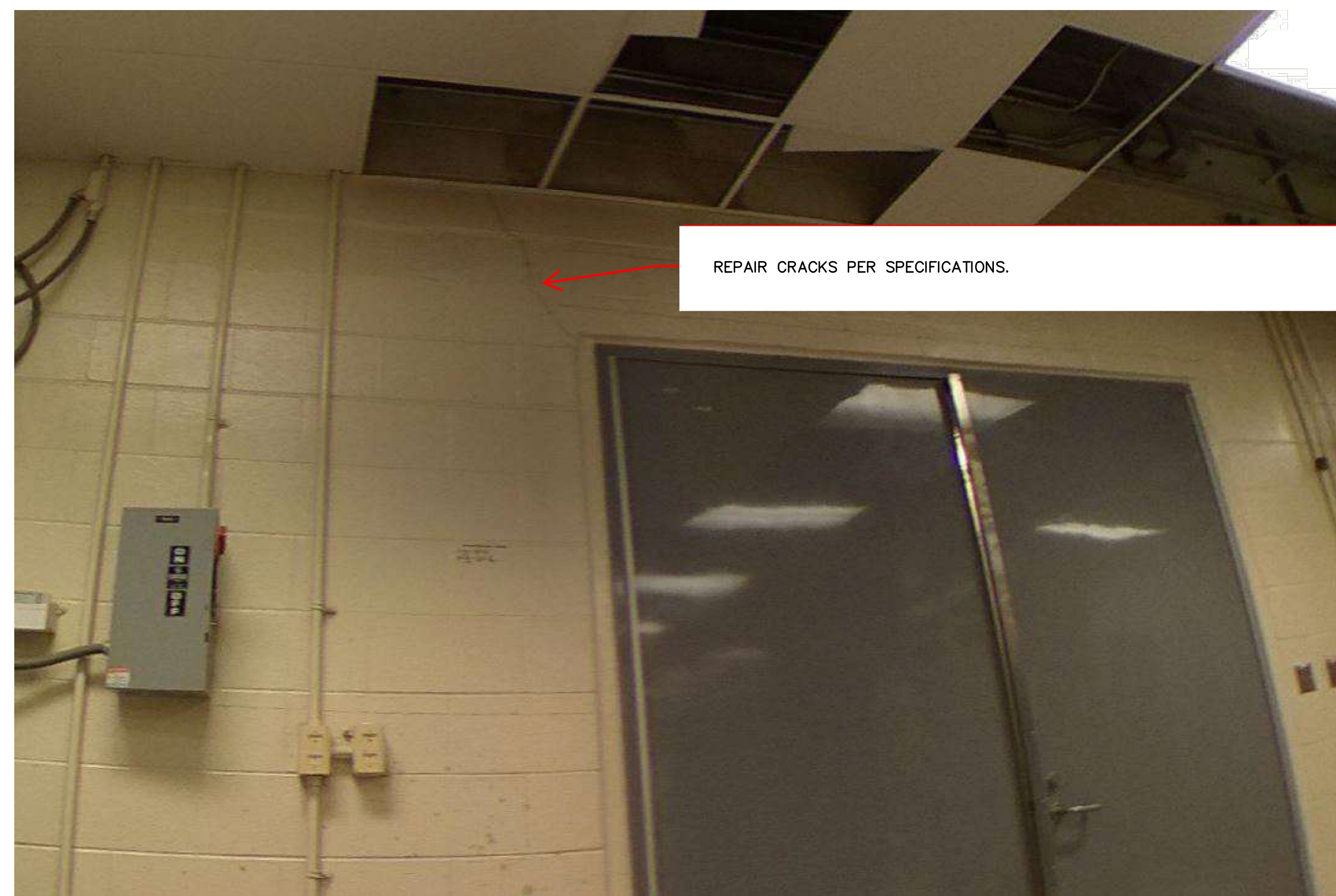
CLEAN OUT THE OPEN JOINT BETWEEN PRECAST PANELS ABOVE THE DOOR. INSTALL EXPANSION JOINT FILLER AND FILL WITH ELASTOMERIC SEALANT TO MATCH EXISTING. FILL ANY CRACK IN PRECAST PANEL WITH CRACK REPAIR MORTAR (MINIMUM 6000 PSI).

ARCHITECTURAL PANEL REPAIRS AT SOUTH WALL
NOT TO SCALE



REPAIR CRACKS WITH GROUT PER SPECIFICATIONS.

FLOOR CRACK REPAIR
NOT TO SCALE



REPAIR CRACKS PER SPECIFICATIONS.

INTERIOR EAST-WEST PARTITION WALL CRACK REPAIR
NOT TO SCALE

NOTES:

1. GENERAL CONTRACTOR TO CAREFULLY DISCONNECT DOOR HARDWARE FROM FRAMES. REMOVE DOORS WITH HARDWARE ATTACHED AND STORE IN A SAFE PLACE AND KEEP FROM DAMAGE.
2. REPLACE DOOR FRAMES TO MATCH EXISTING SIZES AND AS SPECIFIED.
3. REINSTALL DOORS AND HARDWARE INTO NEW FRAMES.



REVISIONS		
No.	DATE	DESCRIPTION
A	04-28-2019	60% SUBMITTAL
B	05-2019	100% SUBMITTAL

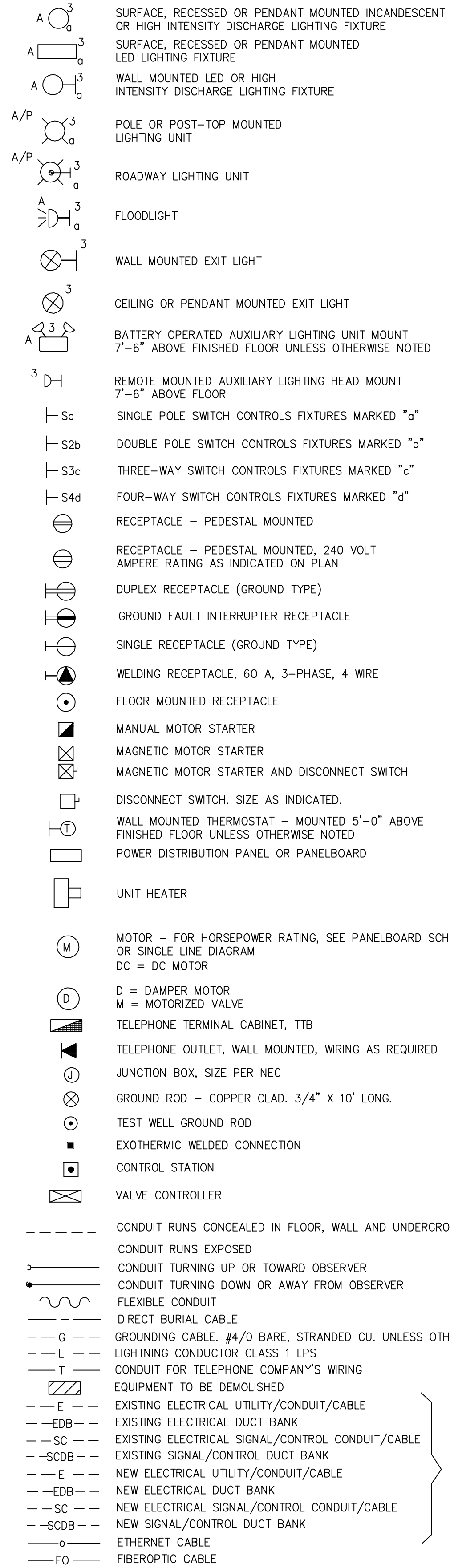
STRUCTURAL MISCELLANEOUS REPAIRS



DESIGNED BY:	B. BHADRA
DRAWN BY:	A. CANNON
CHECKED BY:	D. DUNCAN
DATE:	MAY 2019
FILE NAME:	S-08

DRAWING **S-08**

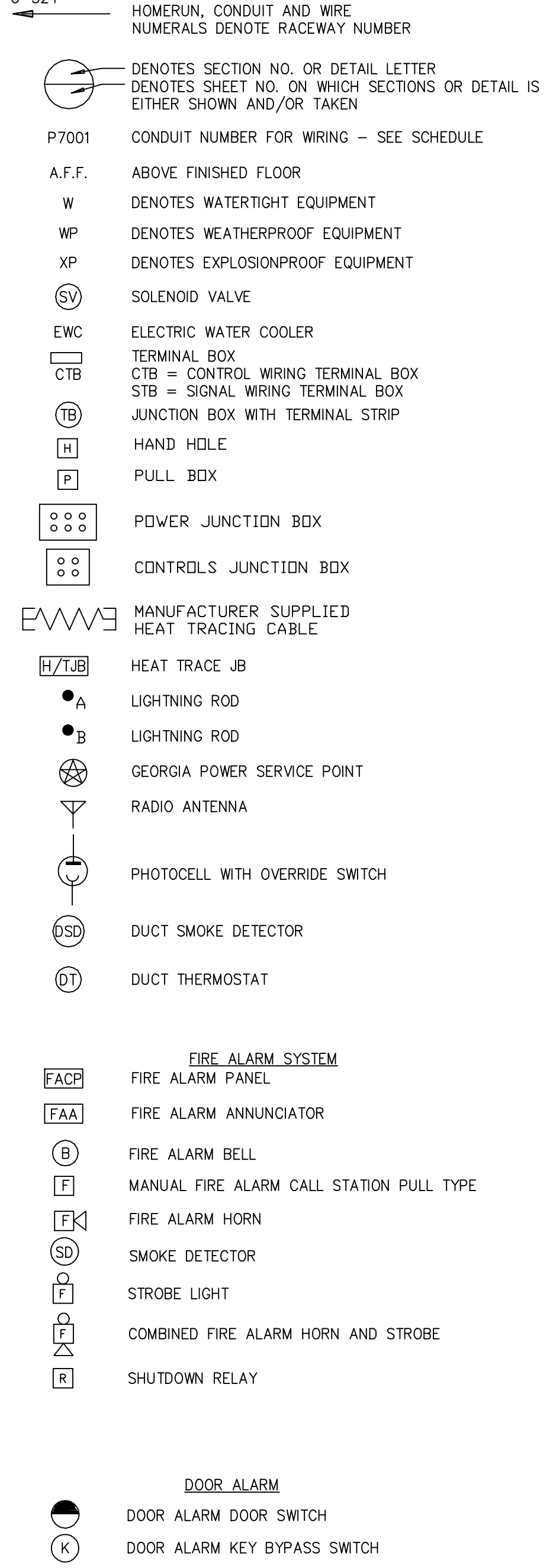
SYMBOLS FOR PLANS



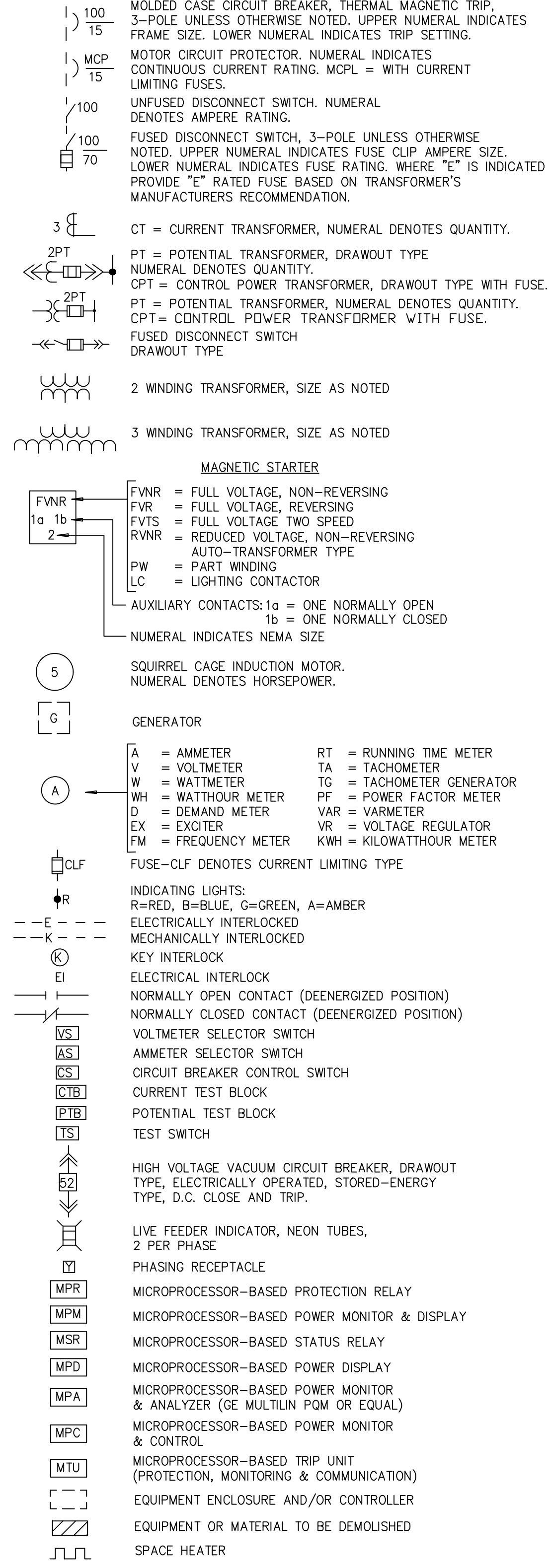
LETTER "A" DENOTES TYPE OF FIXTURE;
 "3" DENOTES PANELBOARD BRANCH CIRCUIT NO. 3;
 "a" DENOTES CONTROLLED BY LOCAL SWITCH "a".
 "P" DENOTES FURNISHED WITH POLE.

NOTE: "E", "EDB", ETC. LETTERS MAY BE OMITTED ON PLAN DRAWINGS.

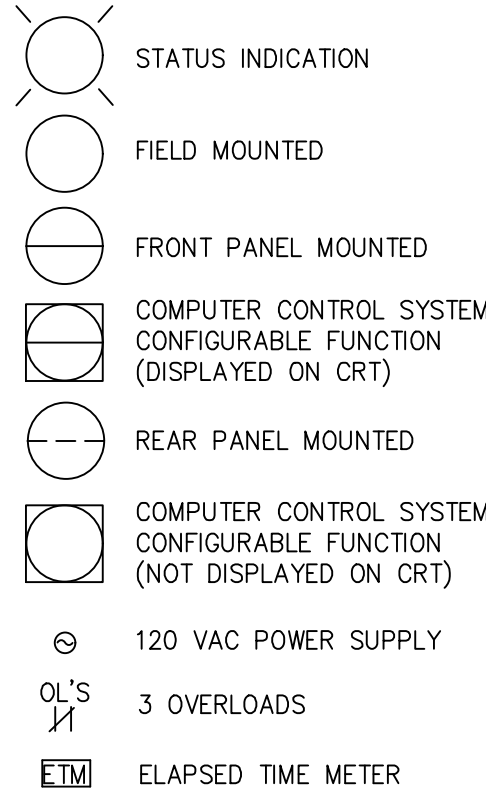
CONT. SYMBOLS FOR PLANS



SYMBOLS FOR ONE LINE DIAGRAMS



SYMBOLS FOR ELEMENTARY DIAGRAMS



REVISIONS	
No.	DESCRIPTION
A	60% SUBMITTAL
B	100% SUBMITTAL

ELECTRICAL SYMBOLS AND GENERAL NOTES

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 WWW.ARCADIS.COM

DESIGNED BY: A. TAVERAS
 DRAWN BY: A. CANNON
 CHECKED BY: I. GONZALEZ
 DATE: MAY 2019
 FILE NAME: E-01

DRAWING: E-01

COMMONLY USED SUFFIX LETTERS APPLIED TO RELAY FUNCTION NUMBERS

SUFFIX LETTER	RELAY APPLICATION
A	ALARM ONLY
B	BUS PROTECTION
C	GROUND-FAULT PROTECTION (RELAY CT IN A SYSTEM NEUTRAL CIRCUIT) OR GENERATOR PROTECTION
L	LINE PROTECTION
M	MOTOR PROTECTION
N	GROUND FAULT PROTECTION (RELAY COIL CONNECTED IN RESIDUAL CT CIRCUIT)
T	TRANSFORMER PROTECTION
V	VOLTAGE
EXAMPLES:	
(1) B7T	- TRANSFORMER DIFFERENTIAL RELAY
(2) 51G	- TIME-OVERCURRENT RELAY USED FOR GROUND FAULT PROTECTION
(3) 49M	- MOTOR WINDING OVERLOAD (OR OVER TEMPERATURE) RELAY

ABBREVIATIONS

A	AMBER LIGHT (BKR, TRIPPED)
AA	AUTOMATIC ALTERNATOR
AF	AMP FRAME
AM	AMMETER
ASC	AUTOMATIC SEQUENCING CONTACT
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUMS	SYS. AUTO-MAIN SWITCH
BFP	BELT FILTER PRESS
BDT	BEARING TEMPERATURE DETECTOR
BTS	BEARING TEMPERATURE SWITCH
CJB	CONTROL JUNCTION BOX
CJBT	THICKENER TANK CONTROL JUNCTION BOX
CV	CONE VALVE
DCU	DISTRIBUTED CONTROL UNIT
DCS	DIGITAL CONTROL SYSTEM
ECS	ENG. CONTROL SWITCH
EDH	ELECTRIC DUCT HEATER
EMS	ELECTRICAL MONITORING SYSTEM
EOV	ELECTRICALLY OPERATED VALVE
EP	ELECTRIC PNEUMATIC
ESPB	EMERGENCY STOP PUSH BUTTON
ET	VOLTAGE TRANSDUCER
EUH	ELECTRIC UNIT HEATER
FC	FLOW CONTROLLER
FE	FLOW ELEMENT
FIT	FLOW INDICATING TRANSMITTER
FL	FAILURE RELAY/CONTACTOR
FM1	FREQUENCY METER-INCOMING
FM2	FREQUENCY METER-RUNNING
FOH	FAN-OFF-HEATER SELECTOR SWITCH
FQIT	FLOW QUANTITY INDICATING TRANSMITTER
FS	FLOAT SWITCH
FSR	FORWARD-STOP-REVERSE PUSHBUTTON, MOMENTARY-CONTACT TYPE
FSRL	FORWARD-STOP-REVERSE PUSHBUTTON, MOMENTARY-CONTACT TYPE WITH LOCKOUT LATCH
FT	FREQUENCY TRANSDUCER
G	GREEN LIGHT (BREAKER OPEN)
GCS	GENERATOR MONITORING & CONTROL SYSTEM
GFP	GROUND FAULT PROTECTION
GFI	GROUND FAULT INTERRUPTER
H	HORN
H/TJB	HEAT TRACING JUNCTION BOX
HA	HAND-AUTOMATIC SELECTOR SWITCH
HLOT	HIGH LUBE OIL TEMPERATURE SWITCH
HOA	HAND-OFF-AUTOMATIC SELECTOR SWITCH
HOS	HAND-OFF-STANDBY SELECTOR SWITCH
HS	HORN SILENCE PUSH BUTTON
HSDB	SLUDGE DEWATERING BUILDING HIGH VOLTAGE PANEL
HSPB	SLUDGE PUMP BUILDING HIGH VOLTAGE PANEL
HT	HEAT TRACING
HWT	HIGH WATER TEMPERATURE SWITCH
IL	INDICATING LIGHT
IT	CURRENT TRANSDUCER
JOC	JOG-OPEN-CLOSE PUSHBUTTON, MOMENTARY-CONTACT TYPE
JT	WATT TRANSDUCER
KS	KEY SWITCH
LC	LEVEL CONTROLLER
LGI	LOAD COMMUTATED INVERTER
LCP	LOCAL CONTROL PANEL
LDSS	LEAD UNIT SELECTOR SWITCH
LE	LEVEL ELEMENT
LI	LEVEL INDICATOR
LIT	LEVEL INDICATING TRANSMITTER
LLOP	LOW LUBE OIL PRESSURE SWITCH
LOR	LOCAL-OFF-REMOTE SELECTOR SWITCH
LPS	LIGHTNING PROTECTION SOCIETY
LR	LOCAL-REMOTE SELECTOR SWITCH
LS	LIMIT SWITCH
LSDB	SLUDGE DEWATERING BUILDING LOW VOLTAGE PANEL
LSPB	SLUDGE PUMP BUILDING LOW VOLTAGE PANEL
LTS	LIGHT TEST PUSH BUTTON
LVPC	LOW VOLTAGE POWER CENTER
MCB	MAIN CIRCUIT BREAKER

CONT. - ABBREVIATIONS

MCC	MOTOR CONTROL CENTER
MHC	MECHANICALLY HELD LIGHTING CONTACTOR
MHP	DENOTES MEDIUM VOLTAGE POWER
MLO	MAIN LUGS ONLY
MOV	MOTOR OPERATED VALVE
MS	MASTER CONTROL SWITCH
MSH	MOISTURE SWITCH HIGH
MSC	MANUFACTURER SUPPLIED CABLE
MSD	MOISTURE SENSING DETECTION PANEL
MSH	MOTOR SPACE HEATER
MTP	MOTOR THERMAL PROTECTOR (BUILT-IN)
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPENED
OC	OPEN-CLOSE SWITCH
OL	OVERLOAD RELAY/CONTACTOR
OSC	OPEN-STOP-CLOSE PUSHBUTTON
PE	PNEUMATIC ELECTRIC
PFCC	POWER FACTOR CORRECTION CAPACITOR (HARMONIC FILTER)
PFT	POWER FACTOR TRANSDUCER
PHL	PHOTOELECTRIC SWITCH
PJB	POWER JUNCTION BOX
PJBT	THICKENER TANK POWER JUNCTION BOX
PLC	PROGRAMMABLE LOGIC CONTROLLER
PS	PRESSURE SWITCH
RC	RATE CONTROLLER
RESET	RESET BUTTON
RO	RUN-OFF SWITCH
RSFS	REMOTE-SLOW-FAST-STOP SELECTOR SWITCH
RTD	RESISTANCE TEMPERATURE DETECTORS
RTM	RUNNING TIME METER
SC	SPEED CONTROLLER
SCR	SILICON CONTROLLED RECTIFIER DRIVE
SCV	SURGE CONTROL VALVE
SEL	SELECTOR SWITCH
SF	SLOW-FAST PUSHBUTTON, MOMENTARY-CONTACT TYPE
SFS	SLOW-FAST-STOP PUSHBUTTON, MOMENTARY-CONTACT TYPE
SI	SPEED INDICATOR
SL	SYNCHRONIZING LIGHT
SLR	SLIP LOSS RECOVERY VARIABLE SPEED DRIVE CONTROLLER
SO	SAFE-OFF SWITCH
SOL	SAFE-OFF SWITCH, WITH LOCKOUT LATCH
SPF	SHEAR PIN FAILURE CONTACT
SQ	SEQUENCE SELECTOR SWITCH
SRC	SECONDARY RESISTOR CONTROLLER
SS	SYNCHROSCOPE
SSI	START-STOP PUSHBUTTON, MOMENTARY-CONTACT TYPE WITH RED (RUN) AND GREEN (OFF) INDICATING LIGHTS
SSL	START-STOP PUSHBUTTON, MOMENTARY-CONTACT TYPE WITH LOCKOUT LATCH
SSM	START-STOP PUSHBUTTON, MAINTAINED-CONTACT TYPE
ST1	SERVICE TRANSFORMER NO.1
SV	SOLENOID VALVE
SWSV	SEAL WATER SOLENOID VALVE
T	THERMOSTAT
T/C	THERMOCOUPLE
TG	TACHOMETER GENERATOR
TI	TIMER
TIT	TEMPERATURE INDICATING TRANSMITTER
TJB	TERMINAL JUNCTION BOX
TMS	TRANSFER MODE SELECTOR SWITCH
TQ	TORQUE ALARM SWITCH
TS	TEMPERATURE SWITCH
TSH	TEST SWITCH HIGH
TSP	TWISTED SHIELDED PAIR
TT	TEMPERATURE TRANSDUCER
TVSS	TRANSIENT VOLTAGE SUPPRESSION SYSTEM
VFD	VARIABLE FREQUENCY DRIVE
VMI	VOLT METER-INCOMING
VMR	VOLT METER-RUNNING
WP	WEATHER-PROOF
ZS	POSITION SWITCH

GENERAL NOTES: (APPLICABLE TO ALL DRAWINGS)

- THE SYMBOLS AND ABBREVIATIONS LIST ON THIS SHEET IS A COMPREHENSIVE STANDARD GUIDE INTENDED FOR GENERAL USE ON ALL PROJECTS. THEREFORE NOT ALL THE SYMBOLS AND ABBREVIATIONS CONTAINED IN THIS LIST ARE NECESSARILY USED ON THIS PARTICULAR PROJECT AND SHOULD BE USED FOR CLARIFICATION ONLY.
- ALL MATERIALS AND EQUIPMENT SHALL CONFORM TO THE AREA CLASSIFICATION REQUIREMENTS. INDOOR AREA DESIGNATIONS FOR WET, CORROSIVE AND CLASSIFIED LOCATIONS ARE INDICATED ON THE DRAWINGS.
- PROVIDE JUNCTION BOX FOR ANY DEVICE WITH PIG TAIL SUCH AS SOLENOID VALVES, LIMIT SWITCHES, SMOKE DETECTORS AND ETC. FOR PROPER ELECTRICAL CONNECTION. PROVIDE ALL HARDWARE FOR MOUNTING OF JUNCTION BOX.
- PROVIDE INDEPENDENT SUPPORT FOR DISCONNECT SWITCHES, CONTROL STATIONS, BOXES, PANELS, ETC. WHERE NO WALLS OR OTHER STRUCTURAL SURFACE EXISTS.
- EQUIPMENT SIZES AND LOCATIONS ARE APPROXIMATE. ACTUAL DIMENSIONS TO BE DETERMINED BY EQUIPMENT FURNISHED.
- ALL ELECTRICAL WORK SHALL MEET NEC 2017.
- ALL WIRING TERMINALS OF EQUIPMENT AND WIRING SHALL BE MIN. 75°C.
- ALL WIRING SHALL BE COPPER TYPE THHN INSULATION.
- ALL WIRING IN CONDUIT MORE THAN 1' EXPOSED SHALL BE MIN. 90°C RATING.
- PROVIDE UL LISTED CONDUIT EXPANSION JOINTS AT EVERY INTERSECTION BETWEEN DIFFERENT SLABS OR MATERIALS INTERRUPTING THE CONDUIT RUN.
- CONDUIT SUPPORTS SHALL MEET NEC REQUIREMENTS.



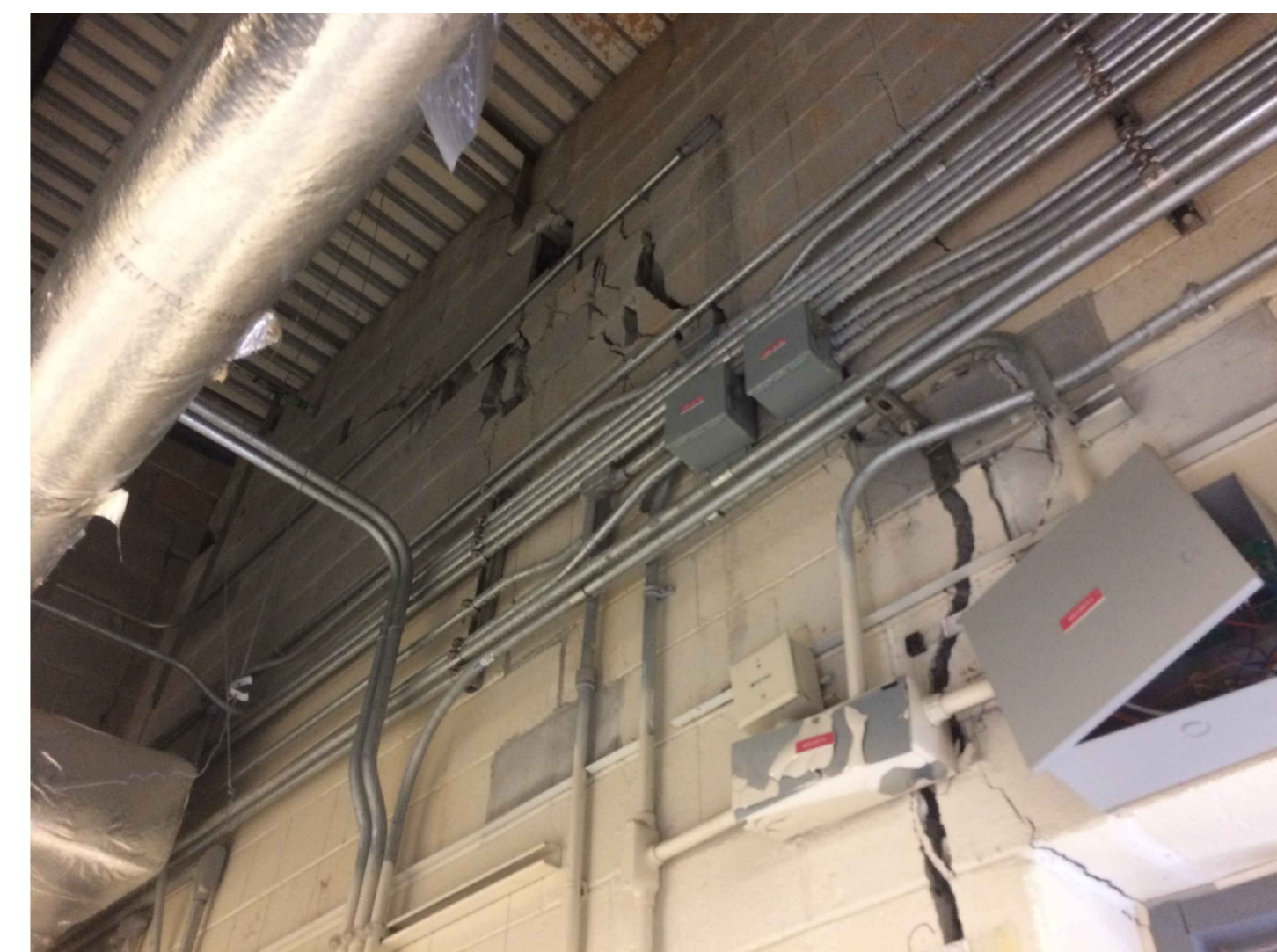
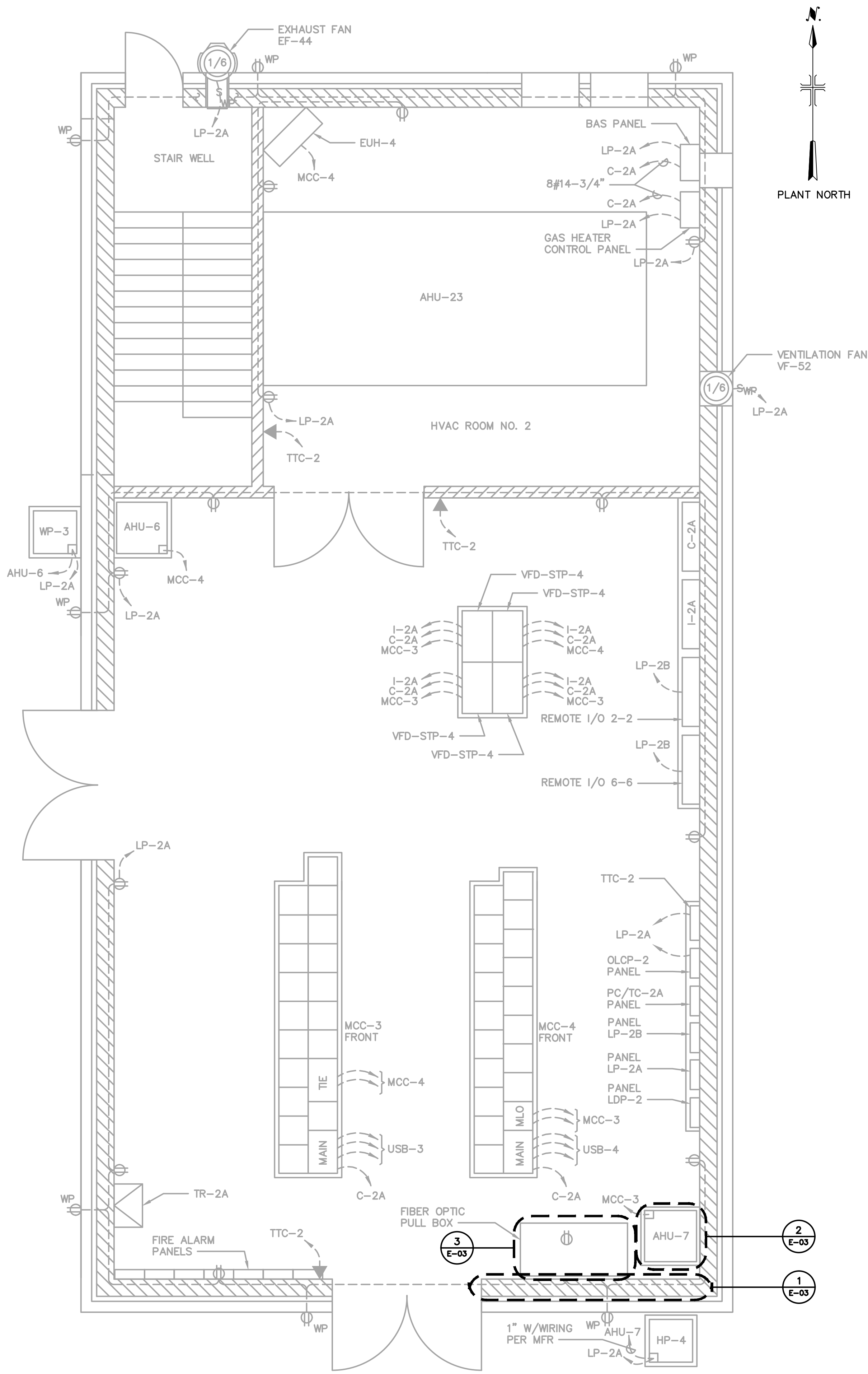
REVISIONS		DESCRIPTION
No.	DATE	DESCRIPTION
A	04-28-2019	80% SUBMITTAL
B	05-2019	100% SUBMITTAL

ELECTRICAL GENERAL NOTES

ARCADIS
 LEGAL ENTITY: U.S., INC.
 ARCADIS U.S., INC. FERRY RD
 2839 PACES FERRY RD
 ATLANTA, GA 30339
 TEL 770-431-8666
 WWW.ARCADIS.COM

DESIGNED BY: **A. TAVERAS**
 DRAWN BY: **A. CANNON**
 CHECKED BY: **I. GONZALEZ**
 DATE: **MAY 2019**

FILE NAME: **E-02**
 DRAWING: **E-02**



1
E-03
SEE NOTE 1



2
E-03
SEE NOTE 2



3
E-03
SEE NOTE 5

NOTES:

1. CLEVELAND ELECTRIC SHALL TRACE ALL CIRCUITS TO BE RELOCATED AND THEN CONFIRM WITH COUNTY BEFORE ANY DEMOLITION IS TO BE DONE.
2. TEMPORARY COOLING SHALL BE PROVIDED DURING CONSTRUCTION WHILE AHU-7 IS OUT OF COMMISSION.
3. PROVIDE PROTECTION FOR ELECTRICAL EQUIPMENT TO MINIMIZE/AVOID DUST, WATER, EXCESSIVE HEAT, OR IMPACT DURING CONSTRUCTION OF STRUCTURAL MITIGATION. PROTECTION SHALL INCLUDE BUT NOT LIMITED TO PLASTIC BARRIERS, SCAFFOLDING ABOVE EXISTING CONDUIT ON EAST SIDE. COORDINATE WITH GENERAL CONTRACTOR FOR PROTECTIVE MEASURES.
4. UPON SURVEILLANCE/OBSERVATIONS OF EXISTING WIRING OR CABLING TO BE AFFECTED BY THIS SCOPE, PROVIDE TABULATED LISTING OF CIRCUITS AND EQUIPMENT OR CONTROL COMPONENTS IDENTIFIED TO BE AFFECTED.
5. PROVIDE IMPACT AND DUST/HUMIDITY MITIGATION PROTECTION FOR FIBER OPTIC PULL BOX.



REVISIONS		DESCRIPTION
No.	DATE	
A	04-25-2019	60% SUBMITTAL
B	05-2019	100% SUBMITTAL

ELECTRICAL
EXISTING ELECTRICAL PLAN



DESIGNED BY: A. TAVERAS
 DRAWN BY: A. CANNON
 CHECKED BY: I. GONZALEZ
 DATE: MAY 2019
 FILE NAME: E-03

DRAWING
E-03

User: CANNON, Spec: AUS-NC3400, File: \\ARCADIS-US\OFFICE\DATA\ATLANTA\GA\WWW\DEKALB\WATERSHED\2016_1034377_ENGINEERING_SERVICES\G04E0014_SCOTT_CANDLER_ELECTRICAL\BLOG_2\STRUCTURAL_DRAWINGS\SHEETS\ELECTRICAL\E-04.DWG, Scale: 1:1, Saved Date: 5/16/2019 9:08:29 AM, Plot Date: Cannon, Annot: 5/24/2019 9:09:29 AM, Layout: 1

PANELBOARD SCHEDULE LP-2A						ELECTRICAL ROOM NO. 2	
225 AMP BUS RATING		150	AMP MAIN C/B		42		POLES
120/208 VOLTS		3 PH.	4	WIRE	60 HZ.		SURFACE MOUNTED
DESCRIPTION	LOAD VA	C/B AMP POLES		C/B AMP POLES	LOAD VA	DESCRIPTION	
TTC-2	180	20 / 1	1	2	20 / 1	100	PANEL OLCB-2
RECEPTACLES	720	20 / 1	3	4	20 / 1	900	RECEPTACLES
RECEPTACLES	1080	20 / 1	5	6	20 / 1	1080	RECEPTACLES
OZONE AREA LWR LEVEL LIGHTING	1840	20 / 1	7	8	20 / 1	1610	ELECTRICAL RM NO. 2 LIGHTING
OZONE AREA LWR LEVEL LIGHTING	1800	20 / 1	9	10	20 / 1	810	ELECTRICAL RM NO. 2 LIGHTING
OZONE AREA LWR LEVEL LIGHTING	1650	20 / 1	11	12	20 / 1	1780	ELECTRICAL RM NO. 2 LIGHTING
OZONE AREA LWR LEVEL LIGHTING	1750	20 / 1	13	14	20 / 1	160	ELECTRICAL RM NO. 2 LIGHTING
VF-52	50	20 / 1	15	16	20 / 1	700	EF-44
AHU-23 (BLOWER)	1176	20 / 1	17	18	20 / 1	100	OZONE ALARM PANEL
AHU-23 (GAS HEATER CP)	100	20 / 1	19	20	20 / 1	120	MOTOR OPERATED DAMPER
AHU-23 (VENTILATION CP)	100	20 / 1	21	22	20 / 1	120	MOTOR OPERATED DAMPER
HP-3	4056	60 / 2	23	24	20 / 1	100	CCTV-2
-	4056	- / -	25	26	20 / 1	100	CCTV-3
HP-4	4056	60 / 2	27	28	20 / 1	100	CCTV-4
-	4056	- / -	29	30	20 / 1	100	CARD READER (SERVICE ENTRANCE)
MOTOR OPERATOR DAMPER	120	20 / 1	31	32	20 / 1	100	INTERCOM NO.2 (SERVICE ENTRANCE)
SPARE	-	20 / 1	33	34	20 / 1	-	SPARE
SPARE	-	20 / 1	35	36	20 / 1	-	SPARE
SPARE	-	20 / 1	37	38	20 / 1	-	SPARE
SPARE	-	20 / 1	39	40	20 / 1	-	SPARE
SPARE	-	20 / 1	41	42	20 / 1	-	SPARE
			A B C				
TOTAL CONNECTED VOLT-AMPS:		10236	ØA	9356	ØB	13178	ØC
TOTAL CONNECTED AMPS:		85	ØA	78	ØB	110	ØC

PANELBOARD SCHEDULE LDP-2						ELECTRICAL ROOM NO. 2	
400 AMP BUS RATING		350	AMP MAIN C/B		42		POLES
120/208 VOLTS		3 PH.	4	WIRE	60 HZ.		SURFACE MOUNTED
DESCRIPTION	LOAD VA	C/B AMP POLES		C/B AMP POLES	LOAD VA	DESCRIPTION	
PANEL LP-2A	10236	150 / 3	1	2	60 / 3	200	PANEL LP-2B
-	9356	- / -	3	4	- / -	400	-
-	13178	- / -	5	6	- / -	450	-
PANEL PC/TC-2A	3600	60 / 3	7	8	60 / 3	-	SPARE
-	2100	- / -	9	10	- / -	-	-
-	1800	- / -	11	12	- / -	-	-
PANEL LCP-1C	4755	60 / 3	13	14	20 / 1	-	SPARE
-	4755	- / -	15	16	20 / 1	-	SPARE
-	4755	- / -	17	18	20 / 1	-	SPARE
SPARE	-	20 / 1	19	20	20 / 1	-	SPARE
SPARE	-	20 / 1	21	22	20 / 1	-	SPARE
SPARE	-	20 / 1	23	24	20 / 1	-	SPARE
SPARE	-	20 / 1	25	26	20 / 1	-	SPARE
SPARE	-	20 / 1	27	28	20 / 1	-	SPARE
SPARE	-	20 / 1	29	30	20 / 1	-	SPARE
SPARE	-	20 / 1	31	32	20 / 1	-	SPARE
SPARE	-	20 / 1	33	34	20 / 1	-	SPARE
SPARE	-	20 / 1	35	36	20 / 1	-	SPARE
SPARE	-	20 / 1	37	38	20 / 1	-	SPARE
SPARE	-	20 / 1	39	40	20 / 1	-	SPARE
SPARE	-	20 / 1	41	42	20 / 1	-	SPARE
			A B C				
TOTAL CONNECTED VOLT-AMPS:		18791	ØA	16311	ØB	20183	ØC
TOTAL CONNECTED AMPS:		156	ØA	136	ØB	168	ØC

PANELBOARD SCHEDULE LP-2B						ELECTRICAL ROOM NO. 2	
100 AMP BUS RATING		60	AMP MAIN C/B		42		POLES
120/208 VOLTS		3 PH.	4	WIRE	60 HZ.		SURFACE MOUNTED
DESCRIPTION	LOAD VA	C/B AMP POLES		C/B AMP POLES	LOAD VA	DESCRIPTION	
I/O 2-6	100	20 / 1	1	2	20 / 1	50	FIT-2510-2
MAIN OZONE PANEL (PLC-3)	300	20 / 1	3	4	20 / 1	50	LIT-2520-2
OZONE INSTRUMENTATION RACK NO.2	350	20 / 1	5	6	20 / 1	50	LIT-5125-1
SPARE	-	20 / 1	7	8	20 / 1	50	LIT-5125-2
SPARE	-	20 / 1	9	10	20 / 1	50	LSLL-5125-1
SPARE	-	20 / 1	11	12	20 / 1	50	LSLL-5125-2
SPARE	-	20 / 1	13	14	20 / 1	-	SPARE
SPARE	-	20 / 1	15	16	20 / 1	-	SPARE
SPARE	-	20 / 1	17	18	20 / 1	-	SPARE
SPARE	-	20 / 1	19	20	20 / 1	-	SPARE
SPARE	-	20 / 1	21	22	20 / 1	-	SPARE
SPARE	-	20 / 1	23	24	20 / 1	-	SPARE
SPARE	-	20 / 1	25	26	20 / 1	-	SPARE
SPARE	-	20 / 1	27	28	20 / 1	-	SPARE
SPARE	-	20 / 1	29	30	20 / 1	-	SPARE
SPARE	-	20 / 1	31	32	20 / 1	-	SPARE
SPARE	-	20 / 1	33	34	20 / 1	-	SPARE
SPARE	-	20 / 1	35	36	20 / 1	-	SPARE
SPARE	-	20 / 1	37	38	20 / 1	-	SPARE
SPARE	-	20 / 1	39	40	20 / 1	-	SPARE
SPARE	-	20 / 1	41	42	20 / 1	-	SPARE
			A B C				
TOTAL CONNECTED VOLT-AMPS:		200	ØA	400	ØB	450	ØC
TOTAL CONNECTED AMPS:		1.67	ØA	3.33	ØB	3.75	ØC

PANELBOARD SCHEDULE PC/TC-2A						ELECTRICAL ROOM NO. 2	
100 AMP BUS RATING		60	AMP MAIN C/B		42		POLES
120/208 VOLTS		3 PH.	4	WIRE	60 HZ.		SURFACE MOUNTED
DESCRIPTION	LOAD VA	C/B AMP POLES		C/B AMP POLES	LOAD VA	DESCRIPTION	
ROADWAY PC LIGHTING	900	20 / 1	1	2	20 / 1	900	ROADWAY TC LIGHTING
ROADWAY PC LIGHTING	900	20 / 1	3	4	20 / 1	900	ROADWAY TC LIGHTING
ROADWAY PC LIGHTING	900	20 / 1	5	6	20 / 1	900	ROADWAY TC LIGHTING
ROADWAY PC LIGHTING	900	20 / 1	7	8	20 / 1	900	ROADWAY TC LIGHTING
OUTSIDE LIGHTING	300	20 / 1	9	10	20 / 1	-	SPARE
SPARE	-	20 / 1	11	12	20 / 1	-	SPARE
SPARE	-	20 / 1	13	14	20 / 1	-	SPARE
SPARE	-	20 / 1	15	16	20 / 1	-	SPARE
SPARE	-	20 / 1	17	18	20 / 1	-	SPARE
SPARE	-	20 / 1	19	20	20 / 1	-	SPARE
SPARE	-	20 / 1	21	22	20 / 1	-	SPARE
SPARE	-	20 / 1	23	24	20 / 1	-	SPARE
SPARE	-	20 / 1	25	26	20 / 1	-	SPARE
SPARE	-	20 / 1	27	28	20 / 1	-	SPARE
SPARE	-	20 / 1	29	30	20 / 1	-	SPARE
SPARE	-	20 / 1	31	32	20 / 1	-	SPARE
SPARE	-	20 / 1	33	34	20 / 1	-	SPARE
SPARE	-	20 / 1	35	36	20 / 1	-	SPARE
SPARE	-	20 / 1	37	38	20 / 1	-	SPARE
SPARE	-	20 / 1	39	40	20 / 1	-	SPARE
SPARE	-	20 / 1	41	42	20 / 1	-	SPARE
			A B C				
TOTAL CONNECTED VOLT-AMPS:		3600	ØA	2100	ØB	1800	ØC
TOTAL CONNECTED AMPS:		30	ØA	18	ØB	15	ØC

NOTE:
1. CONTRACTOR SHALL INDICATE ON PANEL SCHEDULES ALL CIRCUITS THAT REQUIRE RELOCATION AND CONFIRM WITH THE COUNTY BEFORE DEMOLITION.



REVISIONS		DESCRIPTION
No.	DATE	DESCRIPTION
A	04-28-2019	60% SUBMITTAL
B	05-2019	100% SUBMITTAL

ELECTRICAL
PANELBOARD SCHEDULES



DESIGNED BY:	A. TAVERAS
DRAWN BY:	A. CANNON
CHECKED BY:	I. GONZALEZ
DATE:	MAY 2019
FILE NAME:	E-04

DRAWING
E-04