

# CITY OF HOUSTON

## GENERAL SERVICES DEPARTMENT

### AUTOMATIC ENTRY DOOR OPERATORS - CDBG

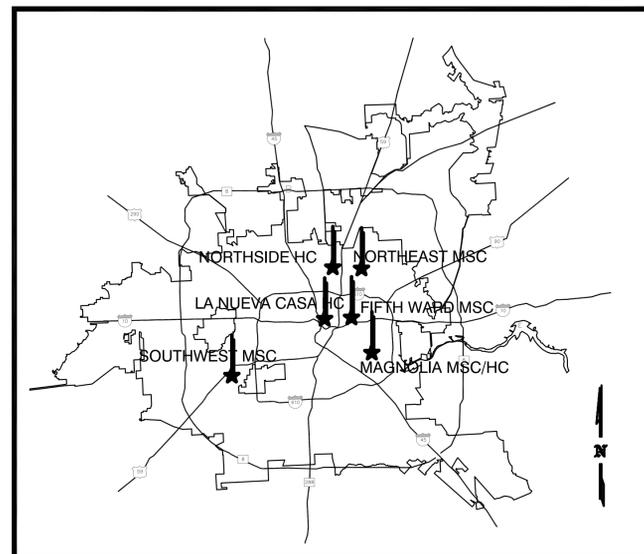
### MULTIPLE HEALTH AND MULTI-SERVICE CENTERS

WBS No. H-000102-0003-4

3/10/2014



FIFTH WARD MULTI-SERVICE CENTER  
 LA NUEVA CASA DE AMIGOS HEALTH CENTER  
 MAGNOLIA MULTI-SERVICE/HEALTH CENTER  
 NORTHEAST MULTI-SERVICE CENTER  
 NORTHSIDE HEALTH CENTER  
 SOUTHWEST MULTI-SERVICE CENTER



LOCATIONS MAP

MAYOR  
**ANNISE D. PARKER**

CONTROLLER  
 RONALD C. GREEN

DISTRICT  
 COUNCIL MEMBERS

BRENDA STARDIG DISTRICT A	JERRY DAVIS DISTRICT B	ELLEN R. COHEN DISTRICT C	DWIGHT BOYKINS DISTRICT D
DAVID MARTIN DISTRICT E	RICHARD NGUYEN DISTRICT F	OLIVER PENNINGTON DISTRICT G	EDWARD GONZALEZ DISTRICT H
RICHARD GALLEGOS DISTRICT I	MIKE LASTER DISTRICT J	LARRY V. GREEN DISTRICT K	

AT-LARGE  
 COUNCIL MEMBERS

STEPHEN C. COSTELLO POSITION 1	DAVID ROBINSON POSITION 2
MICHAEL KUBOSH POSITION 3	C.O. "BRAD" BRADFORD POSITION 4
JACK CHRISTIE POSITION 5	



CONTRACTING AUTHORITY  
 FOR THE  
**CITY OF HOUSTON:**

**GENERAL SERVICES DEPARTMENT**

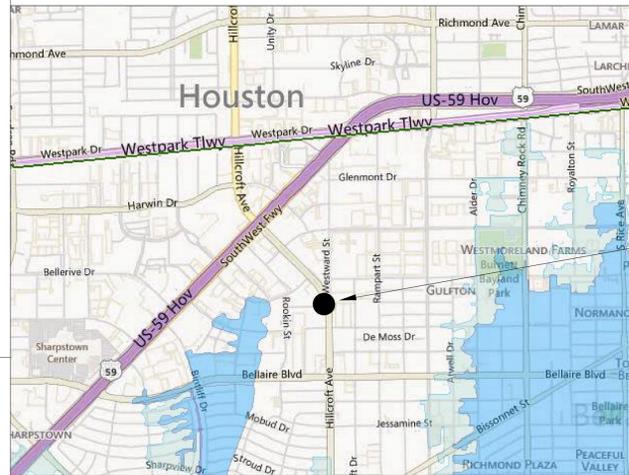
SCOTT MINNIX, DIRECTOR

CITY DWG. No: \_\_\_\_\_  
 SHEET No. 1 OF 20 SHEETS

DESIGN FILE: XXXXXXXX.dwg

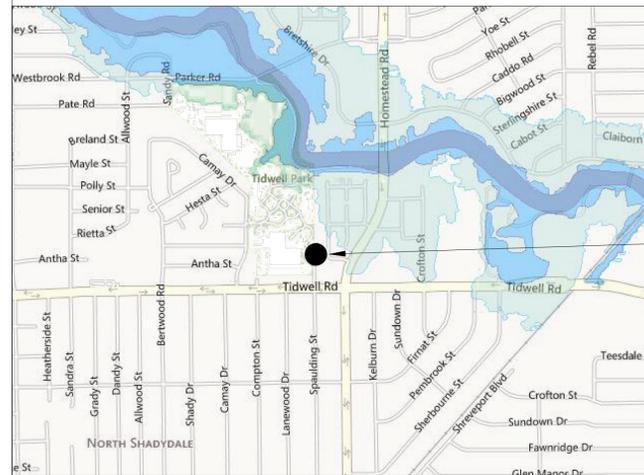
1	2	3	4	5																			
<b>SYMBOLS</b>		<b>GENERAL NOTES</b>		<b>DRAWING LIST</b>																			
<p>PLAN NORTH</p> <p>EXISTING PARTITION TO REMAIN</p> <p>NEW PARTITION</p> <p>EXISTING PARTITION TO BE REMOVED</p> <p>EXISTING DOOR TO REMAIN / NEW DOOR</p> <p>EXISTING DOOR TO BE DEMOLISHED</p> <p>PLAN DETAIL KEY</p> <p>SIGN TYPE</p> <p>DOOR TYPE/HARDWARE TYPE</p> <p>KEYED NOTE</p> <p>PARTITION TYPE</p> <p>ELEVATION KEY</p> <p>BUILDING SECTION</p> <p>INTERIOR SECTION</p> <p>ROOM NAME</p> <p>ROOM NUMBER</p> <p>WALL FINISH</p> <p>FLOOR FINISH TRANSITION</p> <p>CEILING TYPE</p> <p>NEW/RELOCATED 2X4 LAY-IN FLUORESCENT FIXTURE</p> <p>EXISTING 2X4 LAY-IN FLORESCENT FIXTURE</p> <p>REMOVED 2X4 LAY-IN FLUORESCENT FIXTURE</p> <p>NEW/RELOCATED 2X2 LAY-IN FLUORESCENT FIXTURE</p> <p>EXISTING 2X2 LAY-IN FLUORESCENT FIXTURE</p> <p>REMOVED 2X2 LAY-IN FLUORESCENT FIXTURE</p> <p>NEW/RELOCATED RECESSED INCANDESCENT DOWNLIGHT</p> <p>EXISTING RECESSED INCANDESCENT DOWNLIGHT</p> <p>REMOVED RECESSED INCANDESCENT DOWNLIGHT</p> <p>NEW LIGHT SWITCH</p> <p>REMOVED LIGHT SWITCH</p> <p>EXISTING LIGHT SWITCH</p> <p>EMERGENCY EXIT LIGHT</p> <p>NEW/RELOCATED RECESSED WALL WASHER</p> <p>EXISTING RECESSED WALL WASHER</p> <p>REMOVED RECESSED WALL WASHER</p> <p>NEW SPRINKLERHEAD</p>		<p>CEILING FAN</p> <p>SMOKE DETECTOR</p> <p>NEW/RELOCATED SUPPLY GRILLE</p> <p>EXISTING SUPPLY GRILLE</p> <p>REMOVED SUPPLY GRILLE</p> <p>NEW/RELOCATED AIR GRILLE</p> <p>EXISTING RETURN AIR GRILLE</p> <p>REMOVED RETURN AIR GRILLE</p> <p>NEW DUPLEX OUTLET</p> <p>EXISTING DUPLEX OUTLET</p> <p>REMOVED DUPLEX OUTLET</p> <p>NEW QUADRAPLEX OUTLET</p> <p>EXISTING QUADRAPLEX OUTLET</p> <p>REMOVED QUADRAPLEX OUTLET</p> <p>JUNCTION BOX</p> <p>BASE FEED (WHIP)</p> <p>UNDERCABINET FLUORESCENT LIGHTING</p> <p>NEW FLOOR MOUNTED DUPLEX OUTLET</p> <p>EXISTING FLOOR MOUNTED DUPLEX OUTLET</p> <p>REMOVED FLOOR MOUNTED DUPLEX OUTLET</p> <p>NEW DATA/VOICE PULLSTRING</p> <p>DATA/VOICE TERMINATION</p> <p>REMOVED COMMUNICATION OUTLET</p> <p>NEW FLOOR MOUNTED PHONE/DATA OUTLET</p> <p>EXISTING FLOOR MOUNTED PHONE/DATA OUTLET</p> <p>REMOVED FLOOR MOUNTED PHONE/DATA OUTLET</p> <p>NEW THERMOSTAT</p> <p>REMOVED THERMOSTAT</p> <p>ELECTRIC DOOR CLOSER</p> <p>TELEVISION/CABLE</p>		<p>1 The Contractor shall thoroughly examine the premises and base his bid on the existing conditions. The Contractor shall notify the Architect promptly of any discrepancies in the field conditions or dimensions prior to submitting his bid.</p> <p>2 The Contractor shall be responsible for providing all materials and workmanship in accordance with all applicable health and safety requirements, building codes, and ordinances.</p> <p>3 All equipment, fixtures, etc. shown on the plan shall be provided and installed by the Contractor unless noted otherwise.</p> <p>4 The Contractor shall submit shop drawings and samples of requested low energy door operators, hardware, special construction, etc. in a timely manner for the Architect's review prior to construction.</p> <p>5 Dimensions are shown on the plans. Do not scale off of the drawings. All dimensions are from face to face of partitions or face of column unless noted otherwise.</p> <p>6 All heights are dimensioned from the top of the concrete slab unless noted otherwise.</p> <p>7 All work shall conform to the applicable portions of the specifications, unless noted otherwise. The Contractor shall notify the Architect of discrepancies between the drawings and the specifications prior to proceeding with construction.</p> <p>8 All new gypsum board construction shown aligned with existing construction shall be installed in the same plane as the existing with no visible joint. All damaged gypsum board from existing or resulting from new construction shall be repaired to remove any visible marks or discolorations.</p> <p>9 All work with noise producing, or disruptive equipment near occupied areas of the building is subject to coordination with the Owner's Project Manager on site.</p> <p>10 Items identified in the documents for relocation or as having a salvageable value shall be carefully removed and stored as directed.</p> <p>11 All finish &amp; construction materials used shall meet minimum required fire class &amp; smoke developed ratings, ie. class A, s.d. 0.</p> <p>12 All gypsum board construction of plumbing walls or chases shall be 5/8" water resistant board.</p> <p>13 All pipe work and duct work which penetrates through floor slabs and walls shall be sleeved except where shafts or chases are provided. Voids within sleeves shall be packed tight with fire resistant material.</p> <p>14 Manufactured materials, equipment, etc. specified for this contract shall be installed according to the manufacturer's instructions and recommendations unless noted otherwise.</p> <p>15 All requests for substitutions of any items specified shall be submitted in writing to the Architect and shall be considered only if better service facilities, more advantageous delivery date, or a lesser price with a credit to the Owner will be provided without sacrificing quality, appearance, and function. Under no circumstances will the Architect be required to prove that a product proposed for substitution is or is not of equal quality to the product specified.</p> <p>16 "Typical" means typical for all similar conditions unless noted otherwise.</p> <p>17 The Contractor shall provide all necessary supports or blocking in walls or ceilings for the support of items required in the scope of work.</p> <p>18 The Architect shall be the primary source for information regarding each discipline, ie: architectural, mechanical, plumbing, electrical, structural, etc.</p> <p>19 All items indicated to remain from previous construction shall be protected from damage by the general contractor. Any items damaged by contractor or his sub-contractors during construction shall be repaired by contractor.</p> <p>20 All materials used for new construction including, but not limited to: insulation, adhesives, coatings, etcetera; shall be entirely free from asbestos.</p> <p>21 At all partitions which extend to structure above, drywall construction, taped &amp; floated, shall occur above all doors, glass, or other penetrations through the partition whether shown in details or not.</p> <p>22 Contractor shall be responsible for all permits and fees.</p>																			
		<b>FINISH GENERAL NOTES</b>		<b>PROJECT INFORMATION</b>																			
		<p><b>FINISH NOTES:</b></p> <p><b>A. FLOOR FINISH</b></p> <p>1 REFER TO SHEET A0-01 INDEX FOR GENERAL NOTES, SYMBOL LEGEND AND OTHER IMPORTANT INFORMATION.</p> <p>2 FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES IN PLAN TO THE ARCHITECT / ENGINEER BEFORE ANY WORK COMMENCES.</p> <p>3 WHERE NEW CONSTRUCTION MODIFIES EXISTING FINISHES TO REMAIN, CONTRACTOR SHALL PATCH/ REPAIR TO LIKE NEW THE EXISTING FINISHES AS REQUIRED.</p> <p>5 MATERIALS SPECIFIED ARE REFERENCED BY A PRODUCT NAME AND NUMBER. THE CONTRACTOR SHALL VERIFY THAT THE PRODUCT NAME MATCHES THE PRODUCT NUMBER PRIOR TO ORDERING MATERIALS. NOTIFY ARCHITECT OF ANY DISCREPANCIES. CONTRACTOR IS RESPONSIBLE FOR ORDERING SUFFICIENT QUANTITIES OF ALL MATERIALS TO ENSURE A COMPLETE INSTALLATION.</p> <p>6 ALL EXISTING FINISHES TO REMAIN SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION. FINISHES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT NO EXPENSE TO THE OWNER.</p> <p>7 CONTRACTOR SHALL PROVIDE SAMPLES OF ALL FINISHES FOR ARCHITECT'S APPROVAL PRIOR TO ORDERING MATERIALS.</p> <p>8 NO SUBSTITUTE SHALL BE ACCEPTED FOR ANY FINISHES WITHOUT WRITTEN APPROVAL BY THE ARCHITECT. REQUESTS FOR SUBSTITUTIONS MUST BE SUBMITTED IN THE TIME FRAME SO AS NOT TO CAUSE ANY DELAY IN ORDERING OR ACQUIRING THE ORIGINALLY SPECIFIED MATERIAL.</p> <p>9 FLAME SPREAD RATINGS FOR INTERIOR FINISHES ARE TO BE IN ACCORDANCE WITH APPLICABLE CODES.</p> <p><b>B. PAINT</b></p> <p>1 ALL PAINT SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS FOR A LEVEL 4 FINISH. PROVIDE A TWO COAT MINIMUM APPLICATION.</p> <p>2 WALLS SCHEDULED TO BE PAINTED SHALL BE LATEX PAINT, ROLLED ON, UNLESS NOTED OTHERWISE.</p> <p>3 INSPECT DRY WALL AND VERIFY THAT CONDITIONS ARE SUITABLE FOR THE APPLICATION OF WALL COVERING PRIOR TO INSTALLATION. USE MANUFACTURERS RECOMMENDED PRIMER AND FOLLOW MANUFACTURERS RECOMMENDED INSTALLATION FOR APPLICATION.</p> <p>4 CONTRACTOR SHALL PAINT ONE WALL FOR ARCHITECT'S APPROVAL WITH EACH COLOR SPECIFIED, PRIOR TO PURCHASING THE BALANCE OF THE PAINT FOR THE REMINDER OF THE JOB.</p> <p>5 PAINT ALL 4 SIDES OF COLUMNS, INCLUDING COLUMNS AT EXTERIOR WINDOWS.</p> <p>6 ALL EXISTING WOOD TRIM, BASE, CHAIR RAIL, ETC. SHALL BE CLEANED, STAIN TOUCHED-UP AND POLISHED, UNLESS NOTED OTHERWISE.</p>		<p>PROJECT DESCRIPTION: ADD AUTOMATIC ENTRY DOOR OPERATORS TO EXISTING ENTRANCE AND PUBLIC RESTROOM DOORS IN MULTIPLE CITY OF HOUSTON HEALTH AND MULTI-SERVICE CENTERS.</p> <p>BUILDING LOCATION: MULTIPLE LOCATIONS HOUSTON, TEXAS</p> <p>MODEL CODES FOR THIS RENOVATION:</p> <table border="1"> <tr><td>Building Code</td><td>2006 International Building Code with City of Houston Amendments</td></tr> <tr><td>Fire Code</td><td>2006 International Fire Code with City of Houston Amendments</td></tr> <tr><td>Mechanical Code</td><td>2006 Uniform Mechanical Code with City of Houston Amendments</td></tr> <tr><td>Electrical Code</td><td>2011 National Electrical Code with City of Houston Amendments</td></tr> <tr><td>Plumbing Code</td><td>2006 Uniform Plumbing Code</td></tr> <tr><td>Energy Code</td><td>2009 International Energy Conservation Code for Commercial Structures</td></tr> <tr><td>Accessibility Code</td><td>Texas Accessibility Standards of the Architectural Barriers Act Article 9102, Civil Statutes 1994</td></tr> <tr><td></td><td>Senate Bill 5 (Energy Compliance)</td></tr> <tr><td></td><td>2012 Texas Accessibility Standards Elimination of Architectural Barriers Texas Government Code, Chapter 469 Administered by the Texas Department of Licensing and Registration</td></tr> </table>		Building Code	2006 International Building Code with City of Houston Amendments	Fire Code	2006 International Fire Code with City of Houston Amendments	Mechanical Code	2006 Uniform Mechanical Code with City of Houston Amendments	Electrical Code	2011 National Electrical Code with City of Houston Amendments	Plumbing Code	2006 Uniform Plumbing Code	Energy Code	2009 International Energy Conservation Code for Commercial Structures	Accessibility Code	Texas Accessibility Standards of the Architectural Barriers Act Article 9102, Civil Statutes 1994		Senate Bill 5 (Energy Compliance)		2012 Texas Accessibility Standards Elimination of Architectural Barriers Texas Government Code, Chapter 469 Administered by the Texas Department of Licensing and Registration
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<b>ISSUE LOG</b>		
NO.	DATE	DESCRIPTION
1	1-15-14	SCHEMATIC DESIGN
2	1-30-14	DESIGN DEVELOPMENT
3	3-10-14	CONSTRUCTION DOCUMENTS
<b>CITY OF HOUSTON</b> GENERAL SERVICES DEPARTMENT		
900 BAGBY, HOUSTON, TX 77002		
PROJECT NAME :		
<b>AUTOMATIC ENTRY DOOR OPERATORS - CDBG</b>		
WBS No. H-000102-0003-4		
APPROVALS :		
PROJECT MANAGER	DATE	
CHIEF ENGINEER	DATE	
ASSISTANT DIRECTOR	DATE	
CONSULTANTS:		
<b>ARCHITECT:</b> English + Associates Architects, Inc. 1818 DECATUR HOUSTON, TEXAS 77007-7638 713.855.8411		
<b>MEP ENGINEER:</b> Infrastructure Associates INFRASTRUCTURE ASSOCIATES, INC. 617 RICHMOND AVENUE, SUITE 200 HOUSTON, TEXAS 77057 TELE REGISTRATION NO. F-4506 (713) 622-0020 PH. (713) 622-0557 FAX WWW.IAHOUSTON.COM		
<b>ACCESSIBILITY CONSULTANT:</b> ACCESSIBLE DESIGN SOLUTIONS 505 N. SAM HOUSTON PARKWAY E., SUITE 280 HOUSTON, TEXAS 77060		
E+A PROJECT NO. :		14001.02
ACAD DWG. FILE :		
DRAWN BY :		DLL
CHECKED BY :		CT, KE
COPY RIGHT :		
SHEET TITLE :		
<b>GENERAL PROJECT INFORMATION</b>		
<b>A0-01</b>		
SHEET NO. 2 OF 20 SHEETS		
CITY DWG NO. :		
<small>4278254-1      A0-01 GENERAL NOTES</small>		



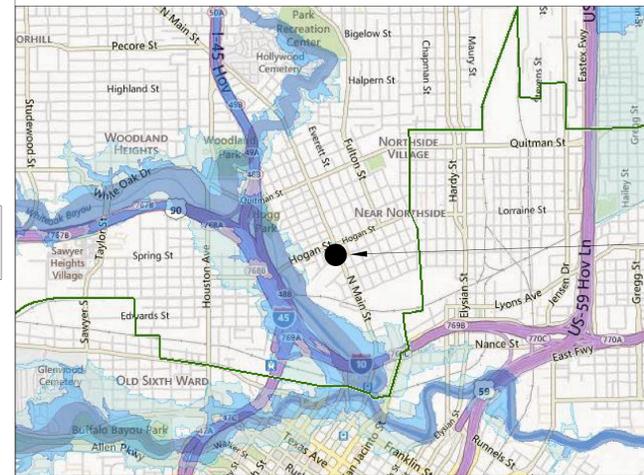
BUILDING LOCATION:	6400 HIGH STAR HOUSTON, TX 77074	APPROX. VALUE OF ASSETS: \$6,477,587	APPROX. CONSTRUCTION COST: \$51,086
ORIGINAL BUILDING CONSTRUCTED:	2006	CONSTRUCTION TYPE:	TYPE 2
MODEL CODES FOR ORIGINAL CONSTR:	2003 IBC	OCCUPANCY TYPE:	TYPE 2
CURRENT BUILDING SIZE:	25,000 Sq. Ft.	OCCUPANCY LOAD:	N/A
NUMBER OF STORIES:	1	SPRINKLERED:	YES
MODIFIED AREA:	540 Sq. Ft.	CEILING HEIGHT:	VARIES

SOUTHWEST MULTI-SERVICE CENTER



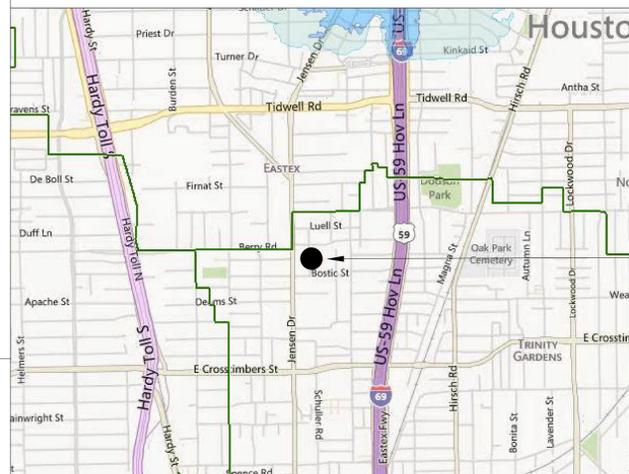
BUILDING LOCATION:	9720 SPAULDING HOUSTON, TX 77016	APPROX. VALUE OF ASSETS: \$8,337,601	APPROX. CONSTRUCTION COST: \$54,986
ORIGINAL BUILDING CONSTRUCTED:	2007	CONSTRUCTION TYPE:	TYPE 2
MODEL CODES FOR ORIGINAL CONSTR:	2003 IBC	OCCUPANCY TYPE:	TYPE 2
CURRENT BUILDING SIZE:	29,020 Sq. Ft.	OCCUPANCY LOAD:	N/A
NUMBER OF STORIES:	1	SPRINKLERED:	YES
MODIFIED AREA:	700 Sq. Ft.	CEILING HEIGHT:	VARIES

NORTHEAST MULTI-SERVICE CENTER



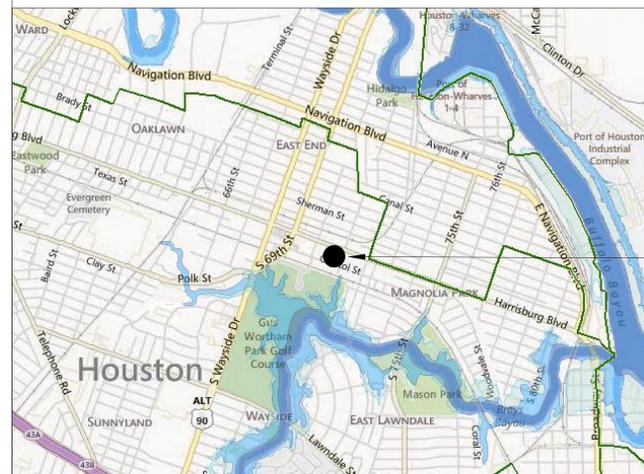
BUILDING LOCATION:	1809 NORTH MAIN HOUSTON, TX 77009	APPROX. VALUE OF ASSETS: \$7,187,125	APPROX. CONSTRUCTION COST: \$43,286
ORIGINAL BUILDING CONSTRUCTED:	1999	CONSTRUCTION TYPE:	TYPE 2
MODEL CODES FOR ORIGINAL CONSTR:	1994 UBC	OCCUPANCY TYPE:	N/A
CURRENT BUILDING SIZE:	39,100 Sq. Ft.	OCCUPANCY LOAD:	N/A
NUMBER OF STORIES:	3	SPRINKLERED:	YES
MODIFIED AREA:	420 Sq. Ft.	CEILING HEIGHT:	VARIES

LA NUEVA CASA DE AMIGOS HEALTH CENTER



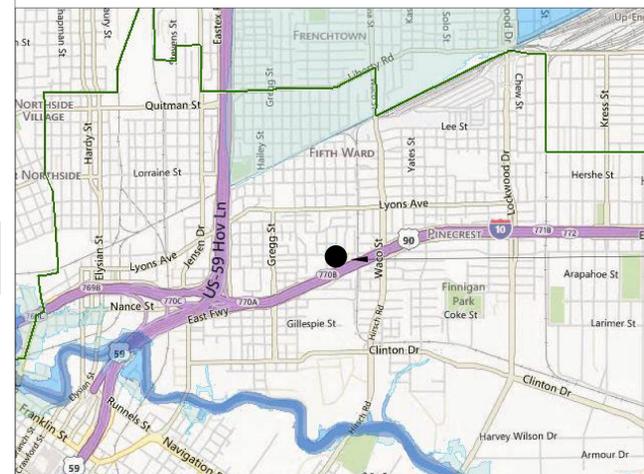
BUILDING LOCATION:	8504 SCHULLER HOUSTON, TX 77093	APPROX. VALUE OF ASSETS: \$6,772,619	APPROX. CONSTRUCTION COST: \$48,486
ORIGINAL BUILDING CONSTRUCTED:	1960	CONSTRUCTION TYPE:	TYPE 2
MODEL CODES FOR ORIGINAL CONSTR:	NOT AVAILABLE	OCCUPANCY TYPE:	TYPE 2
CURRENT BUILDING SIZE:	32,531 Sq. Ft.	OCCUPANCY LOAD:	N/A
NUMBER OF STORIES:	1	SPRINKLERED:	N
MODIFIED AREA:	1200 Sq. Ft.	CEILING HEIGHT:	VARIES

NORTHSIDE HEALTH CENTER



BUILDING LOCATION:	7037 CAPITOL ST. HOUSTON, TX 77011	APPROX. VALUE OF ASSETS: \$10,925,522	APPROX. CONSTRUCTION COST: \$54,986
ORIGINAL BUILDING CONSTRUCTED:	1984	CONSTRUCTION TYPE:	TYPE 2
MODEL CODES FOR ORIGINAL CONSTR:	1970 UBC	OCCUPANCY TYPE:	TYPE 2
CURRENT BUILDING SIZE:	58,420 Sq. Ft.	OCCUPANCY LOAD:	N/A
NUMBER OF STORIES:	2	SPRINKLERED:	YES
MODIFIED AREA:	700 Sq. Ft.	CEILING HEIGHT:	VARIES

MAGNOLIA MULTI-SERVICE/HEALTH CENTER



BUILDING LOCATION:	4014 MARKET ST. HOUSTON, TX 77020	APPROX. VALUE OF ASSETS: \$8,573,058	APPROX. CONSTRUCTION COST: \$47,186
ORIGINAL BUILDING CONSTRUCTED:	1970	CONSTRUCTION TYPE:	TYPE 2
MODEL CODES FOR ORIGINAL CONSTR:	1963 UBC	OCCUPANCY TYPE:	TYPE 2
CURRENT BUILDING SIZE:	33,601 Sq. Ft.	OCCUPANCY LOAD:	N/A
NUMBER OF STORIES:	1	SPRINKLERED:	YES
MODIFIED AREA:	400 Sq. Ft.	CEILING HEIGHT:	VARIES

FIFTH WARD MULTI-SERVICE CENTER



THIS BUILDING IS NOT LOCATED IN THE FLOODPLAIN.

ISSUE LOG		
NO.	DATE	DESCRIPTION
2	1-30-14	DESIGN DEVELOPMENT
3	3-10-14	CONSTRUCTION DOCUMENTS



CITY OF HOUSTON  
GENERAL SERVICES  
DEPARTMENT



900 BAGBY, HOUSTON, TX 77002

PROJECT NAME :  
**AUTOMATIC ENTRY  
DOOR OPERATORS – CDBG**

WBS No. H-000102-0003-4

APPROVALS :

PROJECT MANAGER	DATE
CHIEF ENGINEER	DATE
ASSISTANT DIRECTOR	DATE

CONSULTANTS:

**ARCHITECT:**  
English + Associates  
Architects, Inc.  
1818 DECATUR  
HOUSTON, TEXAS  
77007-7638  
713.865.2474

**MEP ENGINEER:**  
Infrastructure  
Associates  
INFRASTRUCTURE ASSOCIATES, INC.  
617 RICHMOND AVENUE, SUITE 200  
HOUSTON, TEXAS 77007  
TELE REGISTRATION NO. F-4506  
(713) 622-0100 PH. (713) 622-0557 FAX  
WWW.IAHOUSTON.COM

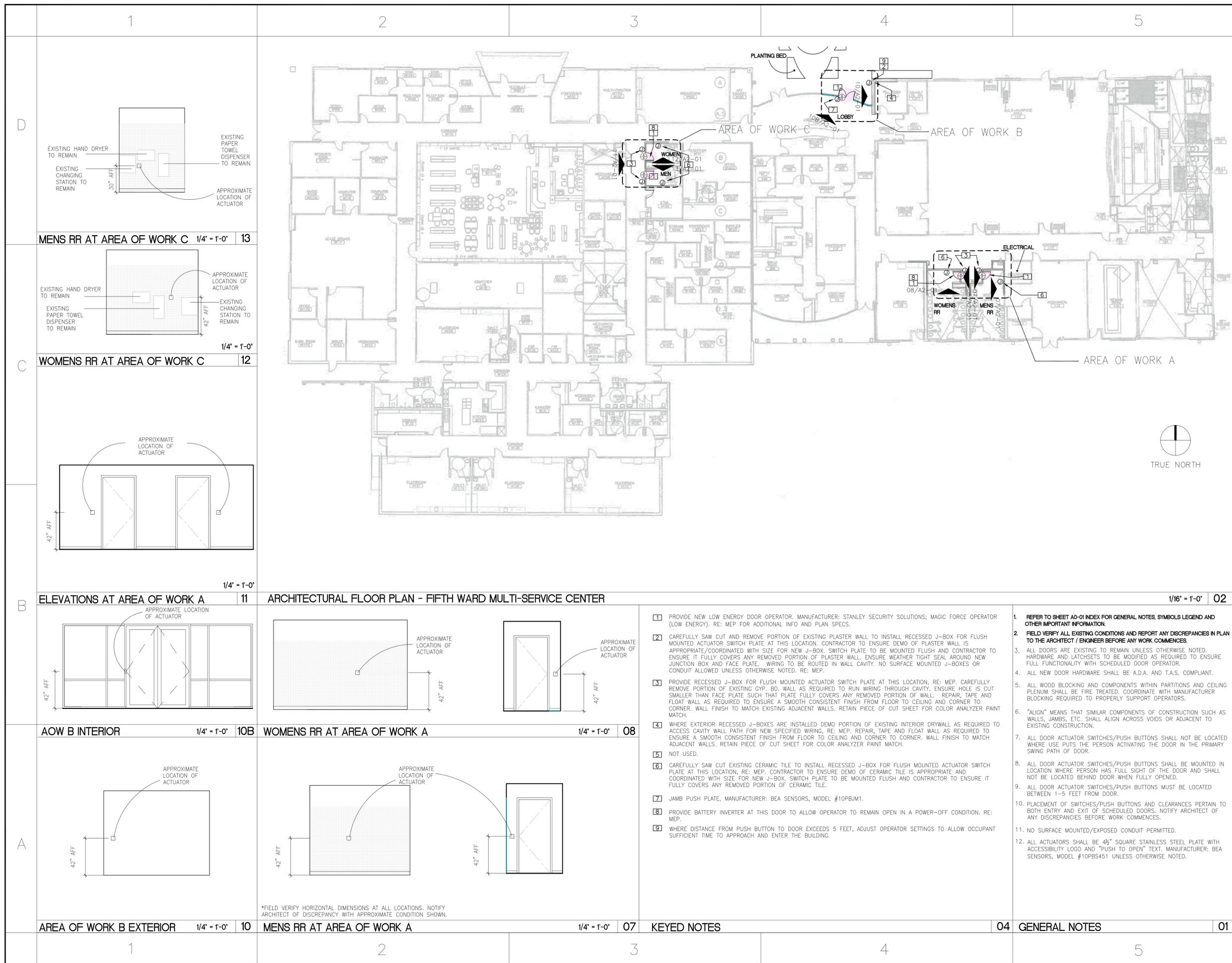
**ACCESSIBILITY CONSULTANT:**  
ACCESSIBLE DESIGN SOLUTIONS  
505 N. SAM HOUSTON PARKWAY E, SUITE 280  
HOUSTON, TEXAS 77060

E+A PROJECT NO : 14001.02  
ACAD DWG. FILE :  
DRAWN BY : DLL  
CHECKED BY : CT, KE  
COPY RIGHT :

SHEET TITLE :  
**KEY PLANS**

A0-02  
SHEET NO. 3 OF 20 SHEETS

CITY DWG NO :



ISSUE LOG		
NO.	DATE	DESCRIPTION
1	1-15-14	SCHEMATIC DESIGN
2	1-30-14	DESIGN DEVELOPMENT
3	3-10-14	CONSTRUCTION DOCUMENTS

**CITY OF HOUSTON**  
GENERAL SERVICES DEPARTMENT

900 BAGBY, HOUSTON, TX 77002

PROJECT NAME :

**AUTOMATIC ENTRY DOOR OPERATORS – CDBG FIFTH WARD MULTI-SERVICE CENTER**  
4014 MARKET STREET  
HOUSTON, TEXAS 77020  
WBS No. H-000102-0003-4

APPROVALS :

PROJECT MANAGER	DATE
CHIEF ENGINEER	DATE
ASSISTANT DIRECTOR	DATE

CONSULTANTS:

ARCHITECT:

**English + Associates Architects, Inc.**  
1616 DECATUR HOUSTON, TEXAS 77007-7636  
713.951.2111

MEP ENGINEER:

**Infrastructure Associates**  
INFRASTRUCTURE ASSOCIATES, INC.  
617 RICHMOND AVENUE, SUITE 200  
HOUSTON, TEXAS 77057  
TEPE REGISTRATION NO. F-4506  
713.422-0100 PH (713) 422-0557 FAX  
WWW.IAHOUSTON.COM

ACCESSIBLE DESIGN CONSULTANT:

**ACCESSIBLE DESIGN SOLUTIONS**  
505 N. SAM HOUSTON PARKWAY E., SUITE 280  
HOUSTON, TEXAS 77050

E+A PROJECT NO :	14001.02
ACAD DWG. FILE :	
DRAWN BY :	DLL
CHECKED BY :	CT, KE
COPY RIGHT :	
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	A2-01
SHEET NO. 4 OF 20 SHEETS	
CITY DWG NO :	

1

2

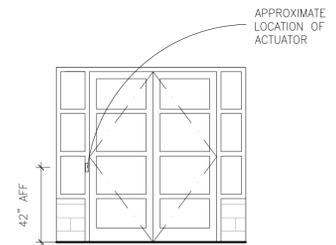
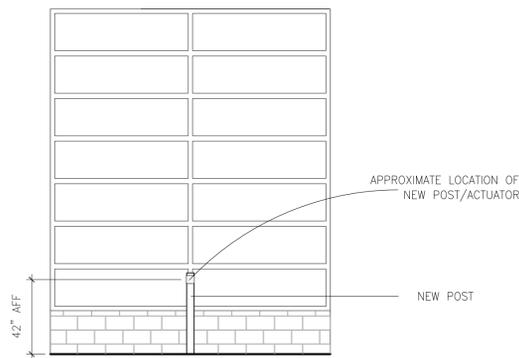
3

4

5

D

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POST AT SOUTH ENTRANCE

1/4" = 1'-0"

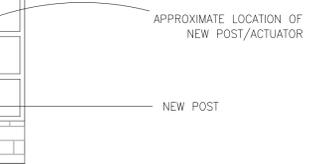
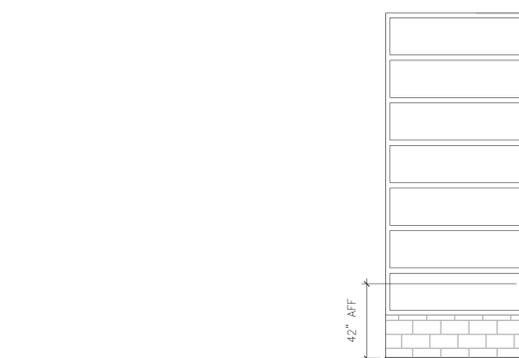
13

SOUTH ENTRANCE INTERIOR

1/4" = 1'-0"

10

C



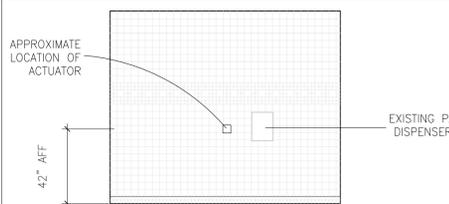
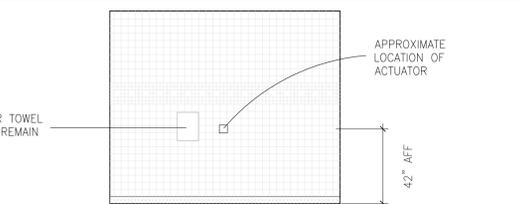
POST AT NORTH ENTRANCE

1/4" = 1'-0"

09

B

B



MENS RESTROOM INTERIOR

1/4" = 1'-0"

12

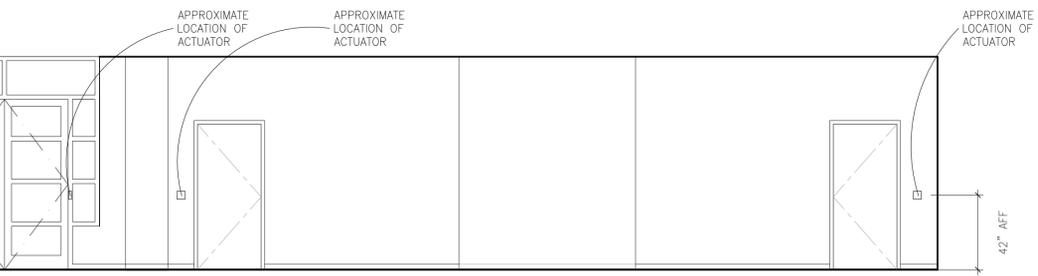
WOMENS RESTROOM INTERIOR

1/4" = 1'-0"

08

A

A



ELEVATION AT RESTROOMS AND NORTH ENTRANCE INTERIOR

1/4" = 1'-0"

07

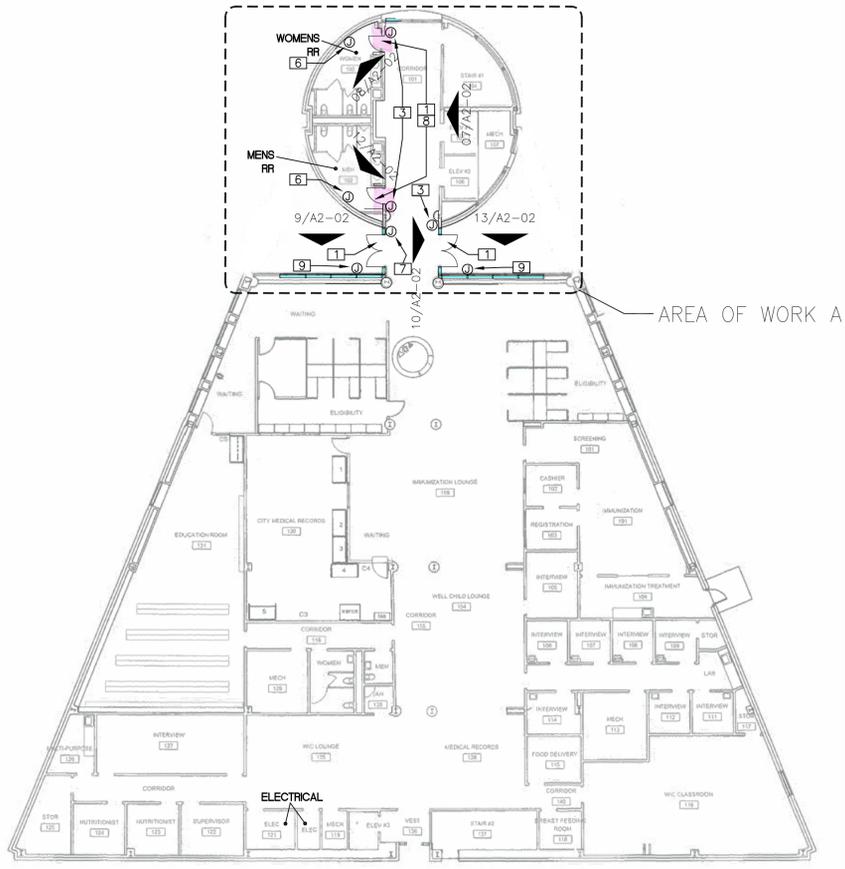
1

2

3

4

5



- 1 PROVIDE NEW LOW ENERGY DOOR OPERATOR, MANUFACTURER: STANLEY SECURITY SOLUTIONS; MAGIC FORCE OPERATOR (LOW ENERGY). RE: MEP FOR ADDITIONAL INFO AND PLAN SPECS.
- 2 CAREFULLY SAW CUT AND REMOVE PORTION OF EXISTING STONE WALL TO INSTALL RECESSED J-BOX FOR FLUSH MOUNTED ACTUATOR SWITCH PLATE AT THIS LOCATION. CONTRACTOR TO ENSURE DEMO OF STONE WALL IS APPROPRIATE/COORDINATED WITH SIZE FOR NEW J-BOX. SWITCH PLATE TO BE MOUNTED FLUSH AND CONTRACTOR TO ENSURE IT FULLY COVERS ANY REMOVED PORTION OF STONE WALL. ENSURE WEATHER TIGHT SEAL AROUND NEW JUNCTION BOX AND FACE PLATE. WIRING TO BE ROUTED IN WALL CAVITY. NO SURFACE MOUNTED J-BOXES OR CONDUIT ALLOWED UNLESS OTHERWISE NOTED. RE: MEP.
- 3 PROVIDE RECESSED J-BOX FOR FLUSH MOUNTED ACTUATOR SWITCH PLATE AT THIS LOCATION, RE: MEP. CAREFULLY REMOVE PORTION OF EXISTING GYP. BD. WALL AS REQUIRED TO RUN WIRING THROUGH CAVITY. ENSURE HOLE IS CUT SMALLER THAN FACE PLATE SUCH THAT PLATE FULLY COVERS ANY REMOVED PORTION OF WALL. REPAIR, TAPE AND FLOAT WALL AS REQUIRED TO ENSURE A SMOOTH CONSISTENT FINISH FROM FLOOR TO CEILING AND CORNER TO CORNER. WALL FINISH TO MATCH EXISTING ADJACENT WALLS. RETAIN PIECE OF CUT SHEET FOR COLOR ANALYZER PAINT MATCH.
- 4 WHERE EXTERIOR RECESSED J-BOXES ARE INSTALLED DEMO PORTION OF EXISTING INTERIOR DRYWALL AS REQUIRED TO ACCESS CAVITY WALL PATH FOR NEW SPECIFIED WIRING, RE: MEP. REPAIR, TAPE AND FLOAT WALL AS REQUIRED TO ENSURE A SMOOTH CONSISTENT FINISH FROM FLOOR TO CEILING AND CORNER TO CORNER. WALL FINISH TO MATCH ADJACENT WALLS. RETAIN PIECE OF CUT SHEET FOR COLOR ANALYZER PAINT MATCH.
- 5 NOT USED.
- 6 CAREFULLY SAW CUT EXISTING CERAMIC TILE TO INSTALL RECESSED J-BOX FOR FLUSH MOUNTED ACTUATOR SWITCH PLATE AT THIS LOCATION, RE: MEP. CONTRACTOR TO ENSURE DEMO OF CERAMIC TILE IS APPROPRIATE AND COORDINATED WITH SIZE FOR NEW J-BOX. SWITCH PLATE TO BE MOUNTED FLUSH AND CONTRACTOR TO ENSURE IT FULLY COVERS ANY REMOVED PORTION OF CERAMIC TILE.
- 7 JAMB PUSH PLATE, MANUFACTURER: BEA SENSORS, MODEL #10PBJM1.
- 8 PROVIDE BATTERY INVERTER AT THIS DOOR TO ALLOW OPERATOR TO REMAIN OPEN IN A POWER-OFF CONDITION. RE: MEP.
- 9 PUSH PLATE POST, MANUFACTURER: BEA SENSORS, MODEL #10BBS451, COLOR: SILVER. RE: MEP AND DETAIL 04/A3-02.

- 1 REFER TO SHEET A0-01 INDEX FOR GENERAL NOTES, SYMBOLS LEGEND AND OTHER IMPORTANT INFORMATION.
- 2 FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES IN PLAN TO THE ARCHITECT / ENGINEER BEFORE ANY WORK COMMENCES.
- 3 ALL DOORS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED. HARDWARE AND LATCHSETS TO BE MODIFIED AS REQUIRED TO ENSURE FULL FUNCTIONALITY WITH SCHEDULED DOOR OPERATOR.
- 4 ALL NEW DOOR HARDWARE SHALL BE A.D.A. AND T.A.S. COMPLIANT.
- 5 ALL WOOD BLOCKING AND COMPONENTS WITHIN PARTITIONS AND CEILING PLENUM SHALL BE FIRE TREATED. COORDINATE WITH MANUFACTURER BLOCKING REQUIRED TO PROPERLY SUPPORT OPERATORS.
- 6 "ALIGN" MEANS THAT SIMILAR COMPONENTS OF CONSTRUCTION SUCH AS WALLS, JAMBS, ETC. SHALL ALIGN ACROSS VOIDS OR ADJACENT TO EXISTING CONSTRUCTION.
- 7 ALL DOOR ACTUATOR SWITCHES/PUSH BUTTONS SHALL NOT BE LOCATED WHERE USE PUTS THE PERSON ACTIVATING THE DOOR IN THE PRIMARY SWING PATH OF DOOR.
- 8 ALL DOOR ACTUATOR SWITCHES/PUSH BUTTONS SHALL BE MOUNTED IN LOCATION WHERE PERSON HAS FULL SIGHT OF THE DOOR AND SHALL NOT BE LOCATED BEHIND DOOR WHEN FULLY OPENED.
- 9 ALL DOOR ACTUATOR SWITCHES/PUSH BUTTONS MUST BE LOCATED BETWEEN 1-5 FEET FROM DOOR.
- 10 PLACEMENT OF SWITCHES/PUSH BUTTONS AND CLEARANCES PERTAIN TO BOTH ENTRY AND EXIT OF SCHEDULED DOORS. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE WORK COMMENCES.
- 11 NO SURFACE MOUNTED/EXPOSED CONDUIT PERMITTED.
- 12 ALL ACTUATORS SHALL BE 4 1/2" SQUARE STAINLESS STEEL PLATE WITH ACCESSIBILITY LOGO AND "PUSH TO OPEN" TEXT. MANUFACTURER: BEA SENSORS, MODEL #10BBS451 UNLESS OTHERWISE NOTED.

KEYED NOTES

GENERAL NOTES

04

01

1

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ISSUE LOG		
NO.	DATE	DESCRIPTION
1	1-15-14	SCHEMATIC DESIGN
2	1-30-14	DESIGN DEVELOPMENT
3	3-10-14	CONSTRUCTION DOCUMENTS

**CITY OF HOUSTON**  
GENERAL SERVICES DEPARTMENT

900 BAGBY, HOUSTON, TX 77002

PROJECT NAME :  
**AUTOMATIC ENTRY DOOR OPERATORS - CDBG**  
LA NUEVA CASA DE AMIGOS HEALTH CENTER  
1809 NORTH MAIN  
HOUSTON, TEXAS 77002  
WBS No. H-000102-0003-4

APPROVALS :

PROJECT MANAGER	DATE
CHIEF ENGINEER	DATE
ASSISTANT DIRECTOR	DATE

CONSULTANTS:

ARCHITECT:  
**English + Associates Architects, Inc.**  
1616 DECATUR HOUSTON, TEXAS 77007-7636  
713.953.2111

MEP ENGINEER:  
**Infrastructure Associates**  
INFRASTRUCTURE ASSOCIATES, INC.  
617 RICHMOND AVENUE, SUITE 200  
HOUSTON, TEXAS 77057  
TEPE REGISTRATION NO. F-4506  
713.422-0100 PH 713.422-0557 FAX  
WWW.IAHOUSTON.COM

ACCESSIBILITY CONSULTANT:  
**ACCESSIBLE DESIGN SOLUTIONS**  
505 N. SAM HOUSTON PARKWAY E., SUITE 280  
HOUSTON, TEXAS 77060

E+A PROJECT NO : 14001.02

ACAD DWG. FILE :

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CHECKED BY : CT, KE

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SHEET TITLE :  
**ARCHITECTURAL FLOOR PLAN - LA NUEVA CASA HC**

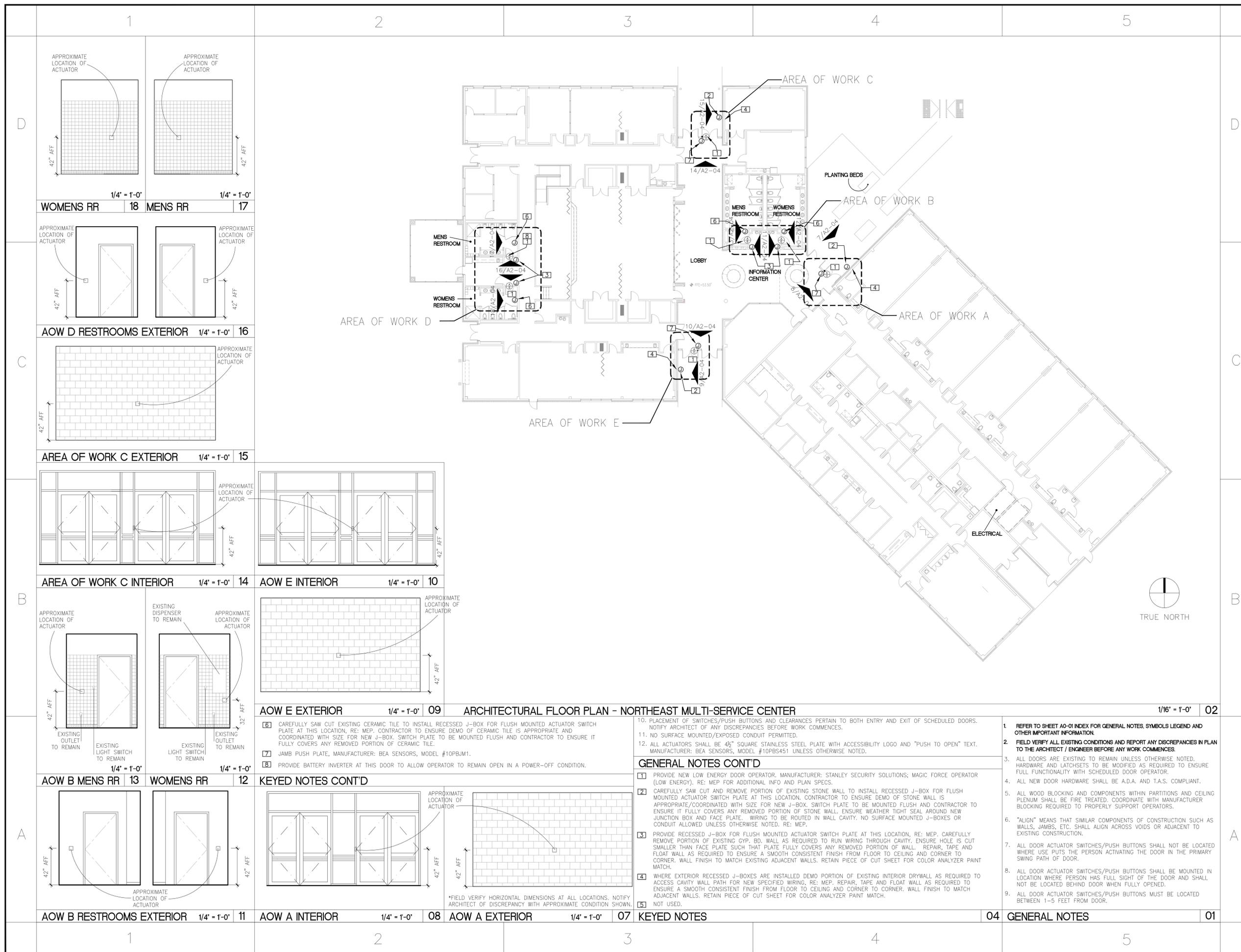
A2-02

SHEET NO. 5 OF 20 SHEETS

CITY DWG NO :

\*FIELD VERIFY HORIZONTAL DIMENSIONS AT ALL LOCATIONS. NOTIFY ARCHITECT OF DISCREPANCY WITH APPROXIMATE CONDITION SHOWN.





ISSUE LOG		
NO.	DATE	DESCRIPTION
1	1-15-14	SCHEMATIC DESIGN
2	1-30-14	DESIGN DEVELOPMENT
3	3-10-14	CONSTRUCTION DOCUMENTS

3-10-14

**CITY OF HOUSTON**  
GENERAL SERVICES DEPARTMENT

900 BAGBY, HOUSTON, TX 77002

PROJECT NAME :  
**AUTOMATIC ENTRY DOOR OPERATORS - CDBG NORTHEAST MULTI-SERVICE CENTER**  
9720 SPAULDING  
HOUSTON, TEXAS 77016  
WBS No. H-000102-0003-4

APPROVALS :

PROJECT MANAGER	DATE
CHIEF ENGINEER	DATE
ASSISTANT DIRECTOR	DATE

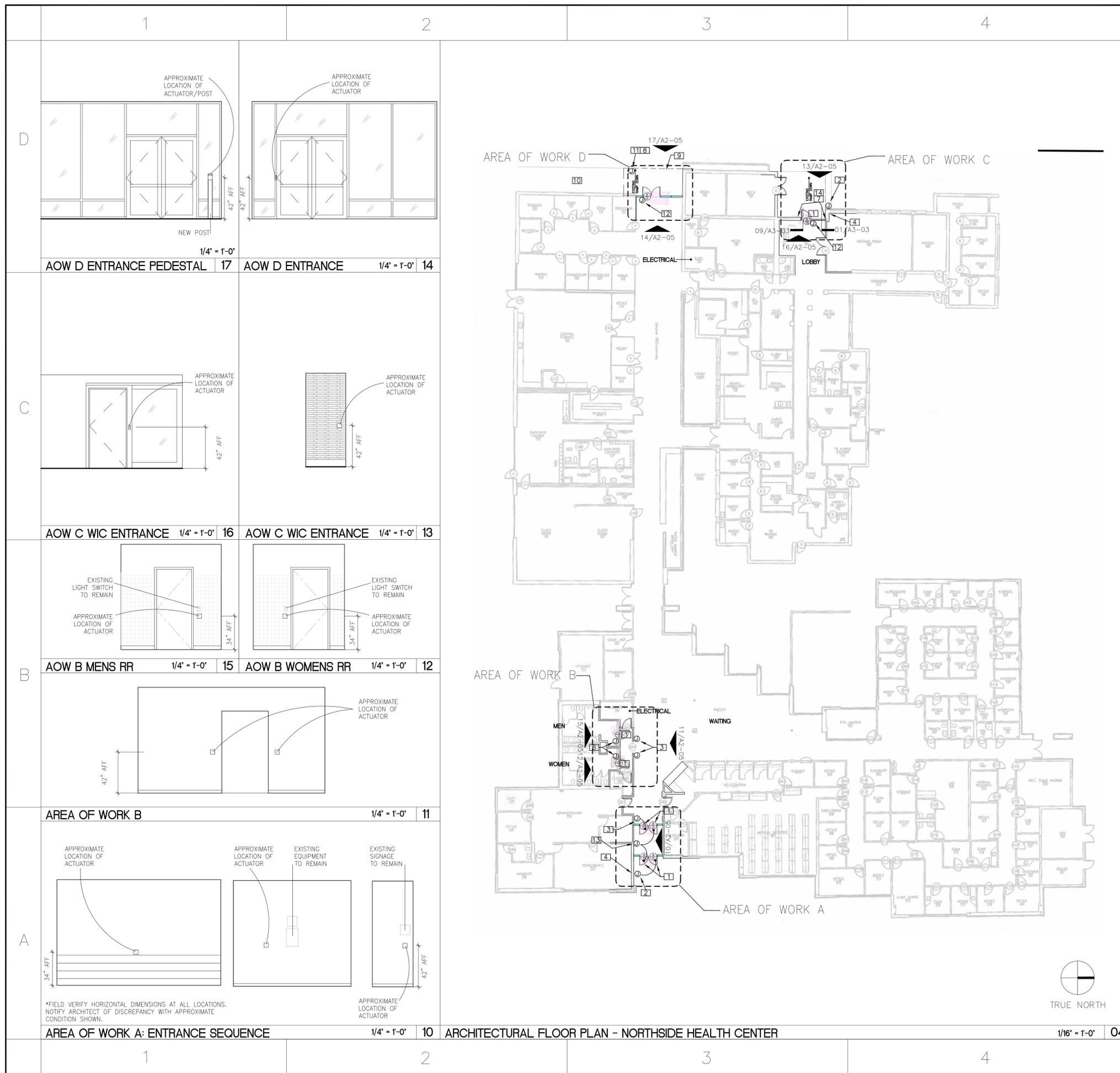
CONSULTANTS:

**ARCHITECT:**  
English + Associates Architects, Inc.  
1818 DECATUR HOUSTON, TEXAS 77007-7638 713 855 2417

**MEP ENGINEER:**  
Infrastructure Associates  
INFRASTRUCTURE ASSOCIATES, INC. 617 RICHMOND AVENUE, SUITE 200 HOUSTON, TEXAS 77057 TELE REGISTRATION NO. F-4506 (713) 622-0020 PH. (713) 622-0557 FAX WWW.IAHOUSTON.COM

**ACCESSIBILITY CONSULTANT:**  
ACCESSIBLE DESIGN SOLUTIONS  
505 N. SAM HOUSTON PARKWAY E., SUITE 280 HOUSTON, TEXAS 77060

E+A PROJECT NO : 14001.02  
ACAD DWG. FILE :  
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SHEET TITLE :  
**ARCHITECTURAL FLOOR PLAN - NORTHEAST MSC**  
A2-04  
SHEET NO. 7 OF 20 SHEETS  
CITY DWG NO :



- KEYED NOTES** 02
- REFER TO SHEET A0-01 INDEX FOR GENERAL NOTES, SYMBOLS LEGEND AND OTHER IMPORTANT INFORMATION.
  - FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES IN PLAN TO THE ARCHITECT / ENGINEER BEFORE ANY WORK COMMENCES.
  - ALL DOORS ARE EXISTING TO REMAIN UNLESS OTHERWISE NOTED. HARDWARE AND LATCHSETS TO BE MODIFIED AS REQUIRED TO ENSURE FULL FUNCTIONALITY WITH SCHEDULED DOOR OPERATOR.
  - ALL NEW DOOR HARDWARE SHALL BE A.D.A. AND T.A.S. COMPLIANT.
  - ALL WOOD BLOCKING AND COMPONENTS WITHIN PARTITIONS AND CEILING PLENUM SHALL BE FIRE TREATED, COORDINATE WITH MANUFACTURER BLOCKING REQUIRED TO PROPERLY SUPPORT OPERATORS.
  - "ALIGN" MEANS THAT SIMILAR COMPONENTS OF CONSTRUCTION SUCH AS WALLS, JAMBS, ETC. SHALL ALIGN ACROSS VOIDS OR ADJACENT TO EXISTING CONSTRUCTION.
  - ALL DOOR ACTUATOR SWITCHES/PUSH BUTTONS SHALL NOT BE LOCATED WHERE USE PUTS THE PERSON ACTIVATING THE DOOR IN THE PRIMARY SWING PATH OF DOOR.
  - ALL DOOR ACTUATOR SWITCHES/PUSH BUTTONS SHALL BE MOUNTED IN LOCATION WHERE PERSON HAS FULL SIGHT OF THE DOOR AND SHALL NOT BE LOCATED BEHIND DOOR WHEN FULLY OPENED.
  - ALL DOOR ACTUATOR SWITCHES/PUSH BUTTONS MUST BE LOCATED BETWEEN 1-5 FEET FROM DOOR.
  - PLACEMENT OF SWITCHES/PUSH BUTTONS AND CLEARANCES PERTAIN TO BOTH ENTRY AND EXIT OF SCHEDULED DOORS. NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE WORK COMMENCES.
  - NO SURFACE MOUNTED/EXPOSED CONDUIT PERMITTED.
  - ALL ACTUATORS SHALL BE 4" SQUARE STAINLESS STEEL PLATE WITH ACCESSIBILITY LOGO AND "PUSH TO OPEN" TEXT. MANUFACTURER: BEA SENSORS, MODEL #10PB5451 UNLESS OTHERWISE NOTED.
- GENERAL NOTES** 01
- PROVIDE NEW LOW ENERGY DOOR OPERATOR. MANUFACTURER: STANLEY SECURITY SOLUTIONS; MAGIC FORCE OPERATOR (LOW ENERGY). RE: MEP FOR ADDITIONAL INFO AND PLAN SPECS.
  - CAREFULLY SAW CUT AND REMOVE PORTION OF EXISTING BRICK OR PLASTER WALL TO INSTALL RECESSED J-BOX FOR FLUSH MOUNTED ACTUATOR SWITCH PLATE AT THIS LOCATION. CONTRACTOR TO ENSURE DEMO OF BRICK OR PLASTER WALL IS APPROPRIATE/ COORDINATED WITH SIZE FOR NEW J-BOX. SWITCH PLATE TO BE MOUNTED FLUSH AND CONTRACTOR TO ENSURE IT FULLY COVERS ANY REMOVED PORTION OF BRICK OR PLASTER WALL. ENSURE WEATHER TIGHT SEAL AROUND NEW JUNCTION BOX AND FACE PLATE. WIRING TO BE ROUTED IN WALL CAVITY. NO SURFACE MOUNTED J-BOXES OR CONDUIT ALLOWED UNLESS OTHERWISE NOTED. RE: MEP.
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  - CAREFULLY REMOVE EXISTING WOOD FRAME DOOR & SIDELITE. PROVIDE NEW ALUMINUM STOREFRONT DOOR FRAME WITH GLAZING. STOREFRONT FRAMING COLOR AND GLAZING TINT TO MATCH EXISTING. RE: SHEET A3-03
  - WHERE DISTANCE FROM PUSH BUTTON TO DOOR EXCEEDS 5 FEET. ADJUST OPERATOR SETTINGS TO ALLOW OCCUPANT SUFFICIENT TIME TO APPROACH AND ENTER THE BUILDING.
  - DEMO EXISTING SLOPING CONCRETE. REFER TO DETAIL 01/A3-02.
  - EXISTING SIDEWALK TO REMAIN.
  - PUSH PLATE POST, MANUFACTURER: BEA SENSORS, MODEL #10BOLLARDBRZ, COLOR: BRONZE. RE: MEP AND DETAIL 04/A3-02.
  - JAMB PUSH PLATE, MANUFACTURER: BEA SENSORS, MODEL #10PBUM1.
  - DUAL VESTIBULE PUSH PLATE. MANUFACTURER: BEA SENSORS, MODEL #10PBDGP1. RE: MEP.
  - CAREFULLY REMOVE EXISTING SECURITY BARS ON EXISTING STOREFRONT WINDOW. RETURN TO OWNER FOR STORAGE.

ISSUE LOG		
NO.	DATE	DESCRIPTION
1	1-15-14	SCHEMATIC DESIGN
2	1-30-14	DESIGN DEVELOPMENT
3	3-10-14	CONSTRUCTION DOCUMENTS

**CITY OF HOUSTON**  
GENERAL SERVICES DEPARTMENT

900 BAGBY, HOUSTON, TX 77002

PROJECT NAME :  
**AUTOMATIC ENTRY DOOR OPERATORS - CDBG NORTHSIDE HEALTH CENTER**  
8504 SCHULLER  
HOUSTON, TEXAS 77093  
WBS No. H-000102-0003-4

APPROVALS :

PROJECT MANAGER	DATE
CHIEF ENGINEER	DATE
ASSISTANT DIRECTOR	DATE

CONSULTANTS:

ARCHITECT:  
**English + Associates Architects, Inc.**  
1616 DECATUR HOUSTON, TEXAS 77007-7636  
713.951.2111

MEP ENGINEER:  
**Infrastructure Associates**  
INFRASTRUCTURE ASSOCIATES, INC.  
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**ACCESSIBLE DESIGN SOLUTIONS**  
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HOUSTON, TEXAS 77050

E+A PROJECT NO : 14001.02

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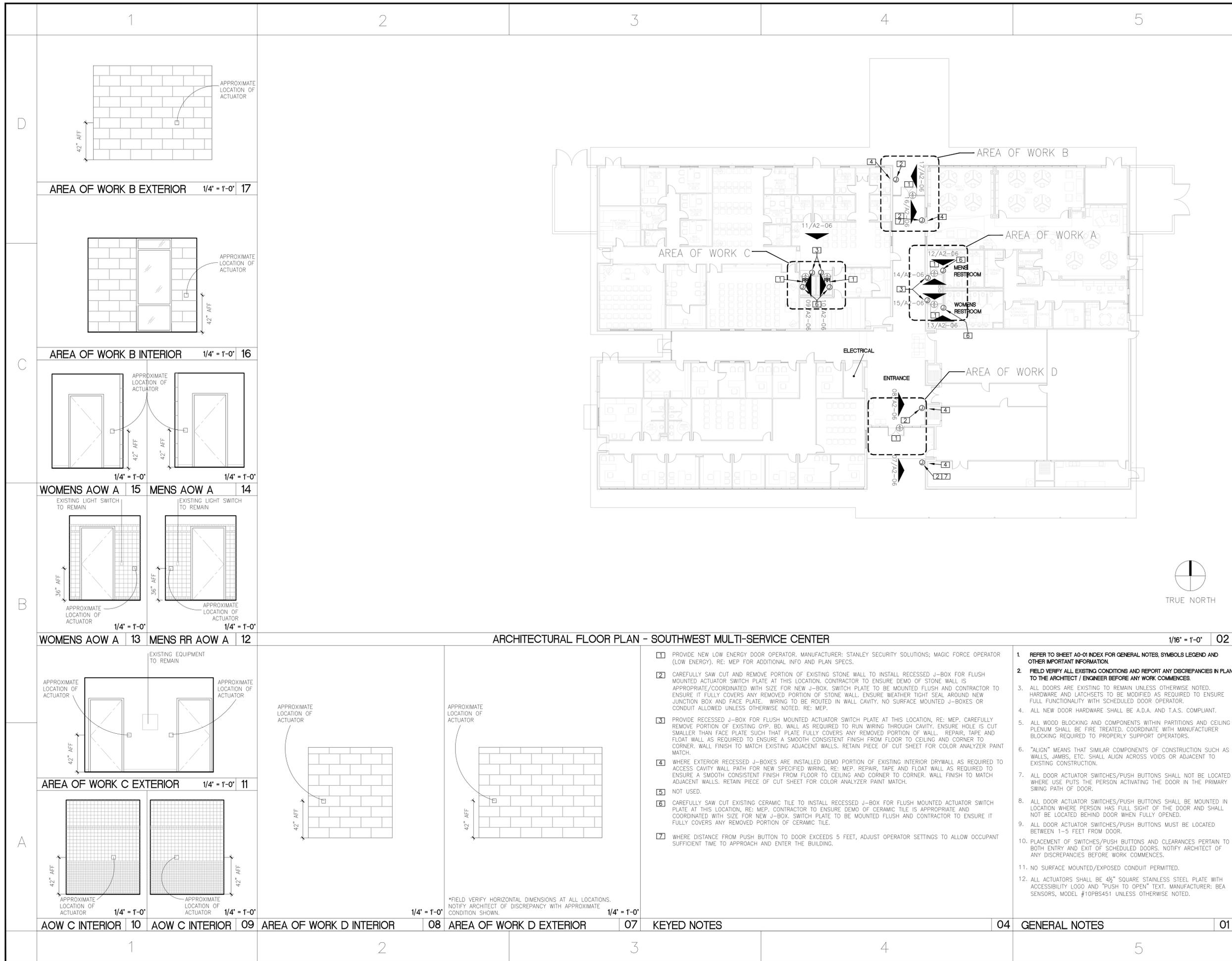
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**ARCHITECTURAL FLOOR PLAN - NORTHSIDE HC**

A2-05

SHEET NO. 8 OF 20 SHEETS

CITY DWG NO :



ISSUE LOG		
NO.	DATE	DESCRIPTION
1	1-15-14	SCHEMATIC DESIGN
2	1-30-14	DESIGN DEVELOPMENT
3	3-10-14	CONSTRUCTION DOCUMENTS

<b>CITY OF HOUSTON</b> GENERAL SERVICES DEPARTMENT	
900 BAGBY, HOUSTON, TX 77002	
PROJECT NAME :	
<b>AUTOMATIC ENTRY DOOR OPERATORS – CDBG</b> <b>SOUTHWEST MULTI-SERVICE CENTER</b> 6400 HIGH STAR HOUSTON, TEXAS 77074 WBS No. H-000102-0003-4	
APPROVALS :	
PROJECT MANAGER _____	DATE _____
CHIEF ENGINEER _____	DATE _____
ASSISTANT DIRECTOR _____	DATE _____
CONSULTANTS:	
<b>ARCHITECT:</b> English + Associates Architects, Inc. 	
<b>MEP ENGINEER:</b> INFRASTRUCTURE ASSOCIATES, INC. 617 RICHMOND AVENUE, SUITE 200 HOUSTON, TEXAS 77007 TEP# REGISTRATION NO. F-4506 (713) 622-0100 PH. (713) 622-0557 FAX WWW.IAHUSTON.COM	
<b>ACCESSIBILITY CONSULTANT:</b> ACCESSIBLE DESIGN SOLUTIONS 505 N. SAM HOUSTON PARKWAY E, SUITE 280 HOUSTON, TEXAS 77060	
E+A PROJECT NO :	14001.02
ACAD DWG. FILE :	
DRAWN BY :	DLL
CHECKED BY :	CT, KE
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SHEET TITLE :	
<b>ARCHITECTURAL FLOOR PLAN - SOUTHWEST MSC</b>	
<span style="font-size: 2em;">A2-06</span>	
SHEET NO. 9	OF 20 SHEETS
CITY DWG NO :	

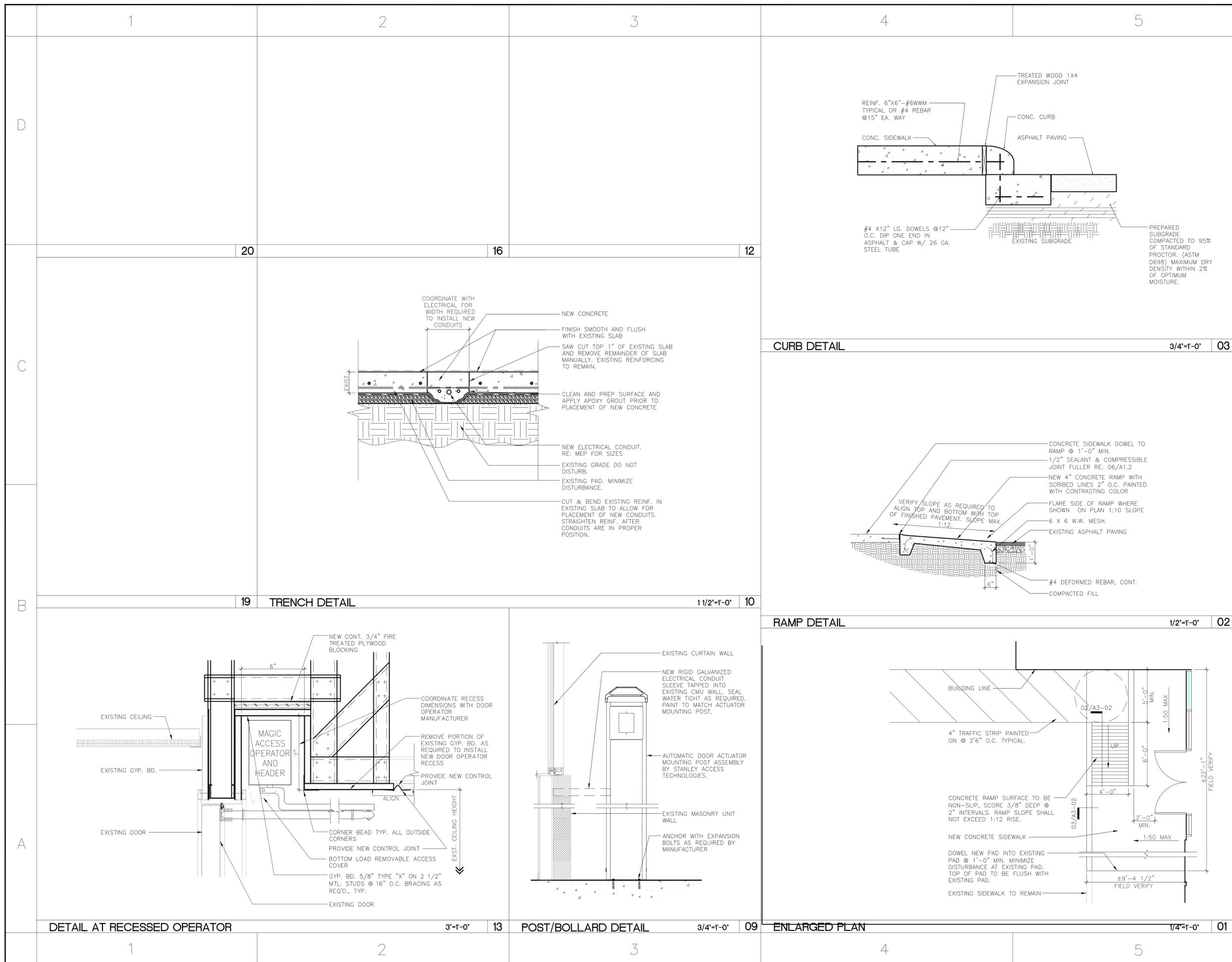
1	2	3	4	5
SECTION 08 71 13 [08716] AUTOMATIC DOOR OPERATORS				
PART 1 – GENERAL				
1.01 RELATED DOCUMENTS				
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.				
1.02 SUMMARY				
A. This Section includes the following types of automatic door operators:				
1. Exterior and interior, automatic door operators, low energy, with visible mounting.				
2. Automatic door operators shall be configured for doors as follows:				
a. Simultaneous pairs, out swing, in swing, or double egress.				
b. Simultaneous pairs, with single operator, out swing or in swing.				
c. Single doors, out swing or in swing.				
B. Related Sections:				
1. Division 8 Section "Doors and Frames" for entrances furnished separately in Division 8 Section.				
2. Division 8 Section "Aluminum-Framed Entrances and Storefronts" for entrances furnished separately in Division 8 Section.				
3. Division 8 Section "Door Hardware" for hardware to the extent not specified in this Section.				
4. Division 26 [16] Sections for electrical connections including conduit and wiring for automatic door operators.				
1.03 REFERENCES				
General: Standards listed by reference, including revisions by issuing authority, form a part of this specification section to extent indicated. Standards listed are identified by issuing authority, authority abbreviation, designation number, title or other designation established by issuing authority. Standards subsequently referenced herein are referred to by issuing authority abbreviation and standard designation.				
A. Underwriters Laboratories (UL):				
1. UL 325 – Standard for Door, Drapery, Gate, Louver, and Window Operators and Systems.				
B. American National Standards Institute (ANSI)/Builders' Hardware Manufacturers Association (BHMA):				
1. ANSI/BHMA A156.10: Standard for Power Operated Pedestrian Doors.				
2. ANSI/BHMA A156.19: Standard for Power Assist and Low Energy Power Operated Doors.				
C. American Society for Testing and Materials (ASTM):				
1. ASTM B221 – Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.				
2. ASTM B209 – Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate				
D. Builders' Hardware Manufacturers Association (BHMA):				
1. BHMA A156.10 – Standard for Power Operated Pedestrian Doors.				
E. American Association of Automatic Door Manufacturers (AAADM):				
F. National Fire Protection Association (NFPA):				
1. NFPA 101 – Life Safety Code.				
2. NFPA 70 – National Electric Code.				
G. International Conference of Building Officials (ICBO):				
1. UBC 1997: Uniform Building Code				
H. California Department of Forestry and Fire Protection, Office of the State Fire Marshall.				
I. International Standards Organization (ISO):				
1. ISO 9001 – Standard for Manufacturing Quality Management Systems				
J. National Association of Architectural Metal Manufacturers (NAAMM):				
1. Metal Finishes Manual for Architectural and Metal Products.				
K. American Architectural Manufacturers Association (AAMA):				
1. AAMA 607.1 – Clear Anodic Finishes for Architectural Aluminum.				
2. AAMA 611 Voluntary Specification for Anodized Architectural Aluminum.				
1.04 DEFINITIONS				
A. Activation Device: Device that, when actuated, sends an electrical signal to the door operator to open the door.				
1.05 PERFORMANCE REQUIREMENTS				
A. Provide automatic door operators capable of withstanding structural loads and thermal movements based on testing manufacturer's standard units in assemblies similar to those indicated for this Project.				
B. Operating Range: Minus 30 deg F (29 deg C) to 130 deg F (54 deg C).				
C. Opening-Force Requirements for Egress Doors: In the event power failure to the operator, swinging automatic entrance doors shall open with a manual force, not to exceed 30 lbf (133 N) applied at 1" (25 mm) from the latch edge of the door.				
D. Break Away Requirements: Automatic door operators shall breakaway with no more than 50 lbf (222 N) applied at 1" (25 mm) from the latch edge of the door.				
E. Door Energy: The kinetic energy of a door in motion shall not exceed 1.25 lbd-ft (1.69 Nm).				
F. Closing Time:				
1. Doors shall be field adjusted to close from 90 degrees to 10 degrees in 3 seconds or longer.				
2. Doors shall be field adjusted to close from 10 degrees to fully closed in not less than 1.5 seconds.				
1.06 SUBMITTALS				
A. Submit listed submittals in accordance with Conditions of the Contract and Division 01 submittal procedures.				
B. Shop Drawings: Include plans, elevations, sections, details, hardware mounting heights, and attachments to other work. Indicate wiring for electrical supply.				
C. Color Samples for selection of factory-applied color finishes.				
D. Closeout Submittals: Provide the following with project close-out documents.				
1. Owner's Manual.				
2. Warranties.				
1.07 QUALITY ASSURANCE				
A. Installer Qualifications: Manufacturer's authorized representative who is trained for installation and maintenance of units required for this Project.				
B. Manufacturer Qualifications: A qualified manufacturer with a manufacturing facility certified under ISO 9001 and with company certificate issued by AAADM.				
C. Certifications: Automatic door operators shall be certified by the manufacturer to meet performance design criteria in accordance with the following standards:				
1. ANSI A156.10.				
2. NFPA 101.				
3. UL 325 Listed (Fire Door Operator)				
4. ICBO (UBC Standard 10-1).				
5. California Department of Forestry and Fire Protection, Listed.				
D. Source Limitations: Obtain automatic door operators through one source from a single manufacturer.				
E. Product Options: Drawings indicate sizes, profiles, and dimensional requirements of automatic entrance door assemblies and are based on the specific system indicated. Refer to Division 1 Section "Product Requirements."				
F. Power Operated Door Standard: ANSI/BHMA A156.19.				
G. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.				
H. Emergency-Exit Door Requirements: Comply with requirements of authorities having jurisdiction for swinging automatic entrance doors serving as a required means of egress.				
1.08 PROJECT CONDITIONS				
A. Field Measurements: General Contractor shall verify openings to receive automatic door operators by field measurements before fabrication and indicate measurements on Shop Drawings.				
B. Mounting Surfaces: General Contractor shall verify all surfaces to be plumb, straight and secure; substrates to be of proper dimension and material.				
C. Other trades: General Contractor Advise of any inadequate conditions or equipment.				
1.09 COORDINATION				
A. Templates: Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing automatic door operators to comply with indicated requirements.				
B. Electrical System Roughing-in: Coordinate layout and installation of automatic door operators with connections to, power supplies, and remote activation devices.				
C. System Integration: Integrate automatic door operators with other systems as required for a complete working installation.				
1. Provide electrical interface control capability for card reader or keypad operation of automatic door operators on doors, with electric locking.				
2. Where required for proper operation, provide a time delay relay to signal automatic door operator to activate only after electric lock system is released.				
1.10 WARRANTY				
A. Automatic door operators shall be free of defects in material and workmanship for a period of one (1) year from the date of substantial completion.				
B. During the warranty period the Owner shall engage a factory-trained technician to perform service and affect repairs. A safety inspection shall be performed after each adjustment or repair and a completed inspection form shall be submitted to the Owner.				
C. During the warranty period all warranty work, including but not limited to emergency service, shall be performed during normal working hours.				
PART 2 – PRODUCTS				
2.01 AUTOMATIC DOOR OPERATORS				
A. Manufacturer: Stanley Access Technologies; Magic-Force™ Series automatic door operator.				
2.02 MATERIALS				
A. Aluminum: Alloy and temper recommended by manufacturer for type of use and finish indicated.				
1. Headers: 6063-T6.				
2. Extruded Bars, Rods, Profiles, and Tubes: ASTM B 221.				
3. Sheet and Plate: ASTM B 209.				
B. Sealants and Joint Fillers: Refer to Division 7 Section "Joint Sealants".				
2.03 COMPONENTS				
A. Header Case: Header case shall not exceed 6" (152 mm) square in section and shall be fabricated from extruded aluminum with structurally integrated end caps, designed to conceal door operators and controls. The operator shall be sealed against dust, dirt, and corrosion within the header case. Access to the operator and electronic control box shall be provided by a full-length removable cover, edge rabbetted to the header to ensure a flush fit. Removable cover shall be secured to prevent unauthorized access.				
B. Door Arms: A combination of door arms and linkage shall provide positive control of door through entire swing; units shall permit use of butt hung, center pivot, and offset pivot-hung doors.				
C. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, non-staining, non-bleeding fasteners and accessories compatible with adjacent materials.				
D. Signage: Provide signage in accordance with ANSI/BHMA A156.19.				
2.04 SWINGING DOOR OPERATORS				
A. Provide door operators of size recommended by manufacturer for door size, weight, and movement; for condition of exposure; and for long-term, maintenance-free operation under normal traffic load for type of occupancy indicated.				
B. Electromechanical Operators: Self-contained unit powered by a minimum 3/16 horsepower, permanent-magnet DC motor; through a high torque reduction gear system.				
1. Operation: Power opening and spring closing.				
2. Operator Type: Low energy; readily convertible to full energy; no tools required to change type.				
3. Handing: Non-handed; no tools required to change handing.				
4. Capacity: Rated for adjustable for positive closing action. The spring shall be adjustable, without removing the operator from the header, to accommodate a wide range of field conditions.				
5. Mounting: Visible.				
6. Features:				
a. Adjustable opening and closing speeds.				
b. Adjustable opening and closing force.				
c. Adjustable back-check.				
d. Adjustable hold-open time between 0 and 30 seconds.				
e. Reverse on obstruction.				
f. Variable rate open/closed speed control.				
g. Closed loop speed control with active braking and acceleration.				
h. Variable obstruction recycle time delay.				
i. Optional Switch to open/Switch to close operation.				
j. When operators are provided in pairs, adjustable features are independently adjustable for each operator.				
C. Field Adjustable Spring Closing Operation: The operator shall close the door by spring energy employing the motor, as a dynamic brake to provide closing speed control. The closing spring shall be a helical compression spring adjustable for positive closing action. The spring shall be adjustable, without removing the operator from the header, to accommodate a wide range of field conditions.				
D. Independent Adjustable Closing and Latching Speed Control: The operator shall employ a rheostat module to allow for independent field adjustment of closing and latching speeds using the motor as a dynamic brake.				
E. Field Adjustable Open Stop: The operator shall provide a field adjustable open stop to accommodate opening angles from 80 to 135 degrees without the need for additional components.				
F. Consistent Cycle: The operator shall deliver an even, consistent open force across the entire transition from door fully closed to door fully open. Additionally, the range of the force shall be field adjustable to accommodate a wide range of on-site conditions.				
G. Quiet Performance: The operator shall be designed to output audible noise ratios less than or equal to 50dba.				
H. Manual Use: The operator shall function as a manual door closer in the direction of swing with or without electrical power. The operator shall deliver an even, consistent open force across the entire transition from door fully closed to door fully open.				
I. Electrical service to door operators shall be provided under Division 16 Electrical. Minimum service to be 120 VAC, 10 amps for doors with operators in pairs, 5 amps for single doors.				
2.05 ELECTRICAL CONTROLS				
A. Electrical Control System: Electrical control system shall include a microprocessor controller and position encoder. The encoder shall monitor revolutions of the operator shaft and send signals to microprocessor controller to define door position. Systems utilizing external magnets and magnetic switches are not acceptable.				
B. Life Cycle Data Counter: The microprocessor control shall incorporate a non-re-settable counter to track door operation cycles.				
C. Controller Protection: The microprocessor controller shall incorporate the following features to ensure trouble free operation:				
1. Automatic Reset Upon Power Up.				
2. Main Fuse Protection.				
3. Electronic Surge Protection.				
4. Internal Power Supply Protection.				
5. Resettable sensor supply fuse protection.				
6. Software "Watchdog" protection in the case of software malfunction.				
D. Push Button Interface with LED: The controller shall have push button switches with LED readout to allow for selection or change of the following parameters: carpet or timer logic, single or dual door, activation options, normal back check or large back check, push-to-open assist on/off.				
E. Soft Start/Stop: A "soft-start" "soft-stop" motor driving circuit shall be provided for smooth normal opening and recycling.				
F. Safety Search Circuitry: Provide system to recycle the swinging panels when an obstruction is encountered during the closing cycle. If an obstruction is detected, the system shall search for that object on the next closing cycle by reducing door closing speed prior to the previously encountered obstruction location, and will continue to close in check speed until doors are fully closed, at which time the doors will reset to normal speed. If obstruction is encountered again, the door will come to a full stop. The doors shall remain stopped until obstruction is removed and operate signal is given, resetting the door to normal operation.				
G. Programmable Controller: Microprocessor controller shall be programmable and shall be designed for connection to a local configuration tool. Local configuration tool shall be software driven and shall be utilized via PalmOS handheld interface. The following parameters may be adjusted via the configuration tool.				
1. Operating speeds and forces as required to meet ANSI/BHMA A156.10.				
2. Adjustable and variable features as specified in 2.04, B, 6.				
3. Firmware update.				
4. Trouble shooting.				
a. I/O Status.				
b. Electrical component monitoring including parameter summary.				
5. Entrance profile copy/paste.				
Software for local configuration tool shall be available as a free download from the automatic door operators manufacturer's internet site.				
H. Emergency Breakout Switch: A cam actuated emergency breakout switch shall be provided to disconnect power to the motor when an in-swinging door is manually pushed in the emergency out direction. The operator will then automatically reset and power will be resumed.				
I. Control Switch: Automatic door operators shall be equipped with a three position function switch to control the operation of the door. Control switch shall provide three modes of operation, Automatic, Off, and Hold-Open.				
J. Power Switch: Automatic door operators shall be equipped with a two position On/Off switch to control power to the door.				
2.06 ACTIVATION DEVICES				
A. Activation for Low Energy Doors:				
1. Push Plates: Provide 4 1/2 inch (114 mm) square SPDT push plates with UL listed switch. Face plates and mounting studs shall be stainless steel. Face plates shall be engraved with the international symbol for accessibility and "Push To Open".				
a. Interior and exterior push plates shall be wall mounted in single or double gang electrical boxes and hardwired to door operator controls.				
2.07 ALUMINUM FINISHES				
A. Comply with NAAMM Metal Finishes Manual for Architectural and Metal Products for recommendations for applying and designing finishes. Finish designations, prefixed by "AA" comply with system established by Aluminum Association for designing finishes.				
B. Class II, Clear Anodic Finish: AA-M10C22A31 Mechanical Finish: as fabricated; Chemical Finish: etched, medium matte; Anodic Coating: Architectural Class II, clear coating 0.40 mils minimum complying with AAMA 611-98; and the following:				
1. AAMA 607.1				
2. Applicator must be fully compliant with all applicable environmental regulations and permits, including wastewater and heavy metal discharge.				
PART 3 – EXECUTION				
3.01 INSPECTION				
Examine conditions, with installer present, for compliance with requirements for installation tolerances, header support, and other conditions affecting performance of swinging automatic entrance doors. Proceed with installation only after unsatisfactory conditions have been corrected.				
3.02 INSTALLATION				
A. Do not install damaged components. Fit joints to produce hairline joints free of burrs and distortion. Rigidly secure non-movement joints.				
B. Mounting: Install automatic door operators/headers plumb and true in alignment with established lines and grades. Anchor secure in place. Proceed with installation only after unsatisfactory conditions have been corrected.				
1. Install surface-mounted hardware using concealed fasteners to greatest extent possible.				
2. Set headers, arms and linkages level and true to location with anchorage for permanent support.				
C. Door Operators: Connect door operators to electrical power distribution system as specified in Division 16 Sections.				
D. Sealants: Comply with requirements specified in Division 7 Section "Joint Sealants" to provide weather tight installation.				
3.03 FIELD QUALITY CONTROL				
Testing Services: Factory Trained installer shall test and inspect each swinging automatic entrance door to determine compliance of installed systems with applicable ANSI standards.				
3.04 ADJUSTING				
Adjust door operators, controls, and hardware for smooth and safe operation, for weather-tight closure, and complying with requirements in ANSI/BHMA A156.19 by AAADM Certified Technician.				
3.05 CLEANING AND PROTECTION				
Clean surfaces promptly after installation. Remove excess sealant compounds, dirt, and other substances. Repair damaged finish to match original finish.				
END OF SECTION 08 71 13 [08716]				

ISSUE LOG		
NO.	DATE	DESCRIPTION
3	3-10-14	CONSTRUCTION DOCUMENTS
		
<b>CITY OF HOUSTON</b> GENERAL SERVICES DEPARTMENT		
		
900 BAGBY, HOUSTON, TX 77002		
PROJECT NAME :		
<b>AUTOMATIC ENTRY  DOOR OPERATORS – CDBG</b>		
WBS No. H-000102-0003-4		
APPROVALS :		
PROJECT MANAGER	DATE	
CHIEF ENGINEER	DATE	
ASSISTANT DIRECTOR	DATE	
CONSULTANTS:		
<b>ARCHITECT:</b> <b>English + Associates</b> <b>Architects, Inc.</b>  1616 DECATUR HOUSTON, TEXAS 77007-7636 (713) 951-4111		
<b>MEP ENGINEER:</b>  <b>Infrastructure Associates</b> INFRASTRUCTURE ASSOCIATES, INC. 617 RICHMOND AVENUE, SUITE 200 HOUSTON, TEXAS 77057 TELE REGISTRATION NO. F-4506 (713) 622-0020 PH (713) 622-0557 FAX WWW.IAHOUSTON.COM		
<b>ACCESSIBILITY CONSULTANT:</b> <b>ACCESSIBLE DESIGN SOLUTIONS</b> 505 N. SAM HOUSTON PARKWAY E, SUITE 280 HOUSTON, TEXAS 77060		
E+A PROJECT NO :	14001.02	
ACAD DWG. FILE :		
DRAWN BY :	DLL	
CHECKED BY :	CT, KE	
COPY RIGHT :		
SHEET TITLE :		
<b>SPECIFICATIONS</b>		
<b>A3-01A</b>		
SHEET NO.	10	OF 20 SHEETS
CITY DWG NO :		

09	DOOR TYPES	05	HARDWARE TYPES	SCALE	01
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D	<p><b>SECTION 084113 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS</b></p> <p><b>PART 1 - GENERAL</b></p> <p><b>1.1 SUMMARY</b></p> <p>A. Section Includes: Kawneer Architectural Aluminum Storefront Systems, including perimeter trim, stools, accessories, sills and anchors, and perimeter sealing of storefront units.</p> <p>1. Types of Kawneer Aluminum Storefront Systems Include:</p> <ol style="list-style-type: none"> <li>Tribal® VG 450 (2" Siphonal) Storefront System - 2" x 4-1/2" (50.8 mm x 114.3 mm) nominal dimension; Non-Thermal; Front Plane, Structural Silicone or Vitriflex® Glass, Silk Fabrication.</li> </ol> <p><b>1.2 DEFINITIONS</b></p> <p>A. Definitions: For fenestration industry standard terminology and definitions refer to American Architectural Manufacturers Association (AAMA) - AAMA Glossary (AAMA AG).</p> <p><b>1.3 PERFORMANCE REQUIREMENTS</b></p> <p>A. General Performance: Aluminum-framed storefront system shall withstand the effects of the following performance requirements without exceeding performance criteria or failure due to defective manufacture, fabrication, installation, or other defects in construction:</p> <ol style="list-style-type: none"> <li>Design Wind Loads: Determine design wind loads applicable to the Project from basic wind speed indicated in miles per hour, according to ASCE 7, Section 5.5, "Method 2-Analysis Procedures," based on mean roof heights above grade indicated on Drawings. <ol style="list-style-type: none"> <li>Basic Wind Speed (MPH): (110 mph)</li> <li>Importance Factor (I, II, III): (1, 1.15)</li> <li>Exposure Category (A, B, C, D): (B)</li> </ol> </li> <li>Storefront System Performance Requirements: <ol style="list-style-type: none"> <li>Air Infiltration: The test specimen shall be tested in accordance with ASTM E 283. Air infiltration rate shall not exceed 0.06 cfm/ft<sup>2</sup> (0.3 l/s · m<sup>2</sup>) at a static air pressure differential of 6.24 psf (300 Pa).</li> <li>Water Resistance: The test specimen shall be tested in accordance with ASTM E 331. There shall be no leakage at a minimum static air pressure differential of 8 psf (383 Pa) as defined in AAMA 501.</li> <li>Uniform Load: A static air design load of 20 psf (958 Pa) shall be applied in the positive and negative direction in accordance with ASTM E 330. There shall be no deflection in excess of L/175 of the span of any framing member. At a structural test load equal to 1.5 times the specified design load, no glass breakage or permanent set in the framing members in excess of 0.2% of their clear spans shall occur.</li> </ol> </li> </ol> <p><b>1.4 SUBMITTALS</b></p> <p>A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, hardware, finishes, and installation instructions for each type of aluminum frame storefront system indicated.</p> <p>B. Shop Drawings: Include plans, elevations, sections, details, hardware, and attachments to other work, operational clearances and installation details.</p> <p><b>1.5 QUALITY ASSURANCE</b></p> <p>A. Installer Qualifications: An installer which has had successful experience with installation of the same or similar units required for the project and other projects of similar size and scope.</p> <p>B. Manufacturer Qualifications: A manufacturer capable of providing aluminum framed storefront system that meet or exceed performance requirements indicated and of documenting this performance by inclusion of test reports, and calculations.</p> <p>C. Source Limitations: Obtain aluminum framed storefront system through one source from a single manufacturer.</p> <p><b>1.6 PROJECT CONDITIONS</b></p> <p>A. Field Measurements: Verify actual dimensions of aluminum framed storefront openings by field measurements before fabrication and indicate field measurements on Shop Drawings.</p> <p><b>1.7 WARRANTY</b></p> <p>A. Manufacturer Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty.</p> <ol style="list-style-type: none"> <li>Warranty Period: Two (2) years from Date of Substantial Completion of the project provided however that the Limited Warranty shall begin in no event later than six months from date of engagement by manufacturer.</li> </ol> <p><b>PART 2 - PRODUCTS</b></p> <p><b>2.1 MANUFACTURERS</b></p> <p>A. Basis-of-Design Product:</p> <ol style="list-style-type: none"> <li>Kawneer Company Inc.</li> <li>Tribal® VG 450 (non-Thermal, 2" Siphonal)</li> <li>2" x 4-1/2" (50.8 mm x 114.3 mm) System Dimensions</li> <li>Glass: Front Plane</li> </ol> <p>B. Substitutions:</p> <ol style="list-style-type: none"> <li>Pre-Contract (Bidding Period) Substitutions: Submit written requests ten (10) days prior to bid date.</li> <li>Post-Contract (Construction Period) Substitutions: Submit written request in order to avoid storefront installation and construction delays.</li> <li>Product Literature and Drawings: Submit product literature and drawings modified to suit specific project requirements and job conditions.</li> <li>Certificates: Submit certificate(s) certifying substitute manufacturer (1) attesting to adherence to specification requirements for storefront system performance criteria, and (2) has been engaged in the design, manufacture and fabrication of aluminum storefronts for a period of not less than ten (10) years. (Company Name)</li> <li>Test Reports: Submit test reports verifying compliance with each test requirement required by the project.</li> <li>Samples: Provide samples of typical product sections and finish samples in manufacturer's standard sizes.</li> </ol> <p>C. Substitution Acceptance: Acceptance will be in written form, either as an addendum or modification, and documented by a formal change order signed by the Owner and Contractor.</p> <p><b>2.2 MATERIALS</b></p> <p>A. Aluminum Extrusions: Alloy and temper recommended by aluminum storefront manufacturer for strength, corrosion resistance, and application of required finish and not less than 0.070" wall thickness at any location for the main frame and complying with ASTM B 221; 6063-T6 alloy and temper.</p> <p>B. Fasteners: Aluminum, nonmagnetic stainless steel or other materials to be non-corrosive and compatible with aluminum window members, sills hardware, anchors, and other components.</p> <p>C. Anchors, Clips, and Accessories: Aluminum, nonmagnetic stainless steel, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions or other suitable zinc coating; provide sufficient strength to withstand design pressure indicated.</p> <p>D. Reinforcing Members: Aluminum, nonmagnetic stainless steel, or nickel/chromium-plated steel complying with ASTM B 466 for Type SC 3 severe service conditions, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions or other suitable zinc coating; provide sufficient strength to withstand design pressure indicated.</p> <p>E. Sealant: For sealants required within fabricated storefront system, provide permanently elastic, non-shrinking, and non-migrating type recommended by sealant manufacturer for joint size and movement.</p> <p>F. Tolerances: Reference to tolerances for wall thickness and other cross-sectional dimensions of storefront members are nominal and in compliance with AA Aluminum Standards and Data.</p> <p><b>2.3 STOREFRONT FRAMING SYSTEM</b></p> <p>A. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with nonstaining, nonferrous sills for sligging system components.</p> <p>B. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding fasteners and accessories compatible with adjacent materials. Where exposed shall be stainless steel.</p> <p>C. Perimeter Anchors: When steel anchors are used, provide insulation between steel material and aluminum material to prevent galvanic action.</p> <p>D. Packing, Shipping, Handling and Unloading: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.</p> <p>E. Storage and Protection: Store materials protected from exposure to harmful weather conditions. Handle storefront material and components to avoid damage. Protect storefront material against damage from elements, construction activities, and other hazards before, during and after storefront installation.</p> <p><b>2.4 GLAZING SYSTEMS</b></p> <p>A. Glazing Gaskets: Manufacturer's standard compression types; replaceable, extruded EPDM rubber.</p> <p>B. Spacers and Setting Blocks: Manufacturer's standard elastomeric type.</p> <p>C. Bond-Breaker Tape: Manufacturer's standard TFE-fluorocarbon or polyethylene material to which sealants will not develop adhesion.</p> <p>D. Glazing Sealants: For structural-sealant-glazed systems, as recommended by manufacturer for joint type, and as follows:</p> <ol style="list-style-type: none"> <li>Structural Sealant: ASTM C 1184, single-component neutral-curing silicone formulation that is compatible with system components with which it comes in contact, specifically formulated and tested for use as structural sealant and approved by a structural-sealant manufacturer for use in aluminum-framed systems indicated. <ol style="list-style-type: none"> <li>Coker: Bliak</li> </ol> </li> <li>Weatherseal Sealant: ASTM C 920 for Type S, Grade NS, Class 25, Uses NT, G, A, and O; single-component neutral-curing formulation that is compatible with structural sealant and other system components with which it comes in contact; recommended by structural-sealant, weatherseal-sealant, and aluminum-framed-system manufacturers for the use. <ol style="list-style-type: none"> <li>Coker: Matching structural sealant.</li> </ol> </li> </ol> <p><b>2.5 ACCESSORY MATERIALS</b></p> <p>A. Bituminous Paint: Cold-applied, asphalt-mastic paint complying with SSPC-Paint 12 requirements except containing no asbestos; formulated for 30 mil (0.762 mm) thickness per coat.</p> <p><b>2.6 FABRICATION</b></p> <p>A. Framing Members, General: Fabricate components that, when assembled, have the following characteristics:</p> <ol style="list-style-type: none"> <li>Profiles that are sharp, straight, and free of defects or deformations.</li> </ol> <p><b>2. Accurately fit joints: make joints flush, hairline and weatherproof.</b></p> <p><b>3. Means to drain water passing joints, condensation within framing members, and moisture migrating within the system to exterior.</b></p> <p><b>4. Physical and thermal isolation of glazing from framing members.</b></p> <p><b>5. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances.</b></p> <p><b>6. Provisions for field replacement of glazing.</b></p> <p><b>7. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.</b></p> <p><b>B. Mechanically Glazed Framing Members: Fabricate for flush glazing without projecting stops.</b></p> <p><b>C. Storefront Framing: Fabricate components for assembly using manufacturer's standard installation instructions.</b></p> <p><b>2.7 ALUMINUM FINISHES</b></p> <p>A. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.</p> <p>B. Factory Finishing:</p> <ol style="list-style-type: none"> <li>Kawneer Pemanodic® AAM12C22444, AAMA 611, Architectural Class I Color Anodic Coating (Color Dark Bronze)</li> </ol> <p><b>PART 3 - EXECUTION</b></p> <p><b>3.1 EXAMINATION</b></p> <p>A. Examine openings, substrates, structural support, anchorage, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work. Verify rough opening dimensions, levelness of all glass and operational clearances. Examine wall flashings, vapor barriers, water and weather barriers, and other built-in components to ensure a coordinated, weather tight aluminum framed storefront system installation.</p> <ol style="list-style-type: none"> <li>Masonry Surfaces: Visibly dry and free of excess mortar, sand, and other construction debris.</li> <li>Wood Frame Walls: Dry, clean, sound, well nailed; free of voids, and without offsets at joints. Ensure that nail heads are driven flush with surfaces in opening and within 3 inches (76 mm) of opening.</li> <li>Metal Surfaces: Dry; clean; free of grease, oil, dirt, rust, corrosion, and welding slag; without sharp edges or offsets at joints.</li> <li>Proceed with installation only after unsatisfactory conditions have been corrected.</li> </ol> <p><b>3.2 INSTALLATION</b></p> <p>A. Comply with Drawings, Shop Drawings, and manufacturer's written instructions for installing aluminum framed storefront system, accessories, and other components.</p> <p>B. Install aluminum framed storefront system level, plumb, square, true to line, without distortion or impeding thermal movement, anchored securely in place to structural support, and in proper relation to wall flashing and other adjacent construction.</p> <p>C. Set all members in bed of sealant or with gaskets, as indicated, for weather tight construction.</p> <p>D. Install aluminum framed storefront system and components to drain condensation, water penetrating joints, and moisture migrating within sliding door to the exterior.</p> <p>E. Separate aluminum and other corrosion surfaces from sources of corrosion or electrolytic action at points of contact with other materials.</p> <p><b>3.3 ADJUSTING, CLEANING, AND PROTECTION</b></p> <p>A. Clean aluminum surfaces immediately after installing aluminum framed storefronts. Avoid damaging protective coatings and finishes. Remove excess sealants, glazing materials, dirt, and other substances.</p> <p>B. Clean glass immediately after installation. Comply with glass manufacturer's written recommendations for final cleaning and maintenance. Remove nonpermanent labels, and clean surfaces.</p> <p>C. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during construction period.</p> <p><b>END OF SECTION 084113</b></p>			
C	<p><b>SECTION 084113 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS</b></p> <p><b>PART 1 - GENERAL</b></p> <p><b>1.1 SUMMARY</b></p> <p>A. Section Includes: Kawneer Architectural Aluminum Storefront Systems, including perimeter trim, stools, accessories, sills and anchors, and perimeter sealing of storefront units.</p> <p>1. Types of Kawneer Aluminum Storefront Systems Include:</p> <ol style="list-style-type: none"> <li>Tribal® VG 450 (2" Siphonal) Storefront System - 2" x 4-1/2" (50.8 mm x 114.3 mm) nominal dimension; Non-Thermal; Front Plane, Structural Silicone or Vitriflex® Glass, Silk Fabrication.</li> </ol> <p><b>1.2 DEFINITIONS</b></p> <p>A. Definitions: For fenestration industry standard terminology and definitions refer to American Architectural Manufacturers Association (AAMA) - AAMA Glossary (AAMA AG).</p> <p><b>1.3 PERFORMANCE REQUIREMENTS</b></p> <p>A. General Performance: Aluminum-framed storefront system shall withstand the effects of the following performance requirements without exceeding performance criteria or failure due to defective manufacture, fabrication, installation, or other defects in construction:</p> <ol style="list-style-type: none"> <li>Design Wind Loads: Determine design wind loads applicable to the Project from basic wind speed indicated in miles per hour, according to ASCE 7, Section 5.5, "Method 2-Analysis Procedures," based on mean roof heights above grade indicated on Drawings. <ol style="list-style-type: none"> <li>Basic Wind Speed (MPH): (110 mph)</li> <li>Importance Factor (I, II, III): (1, 1.15)</li> <li>Exposure Category (A, B, C, D): (B)</li> </ol> </li> <li>Storefront System Performance Requirements: <ol style="list-style-type: none"> <li>Air Infiltration: The test specimen shall be tested in accordance with ASTM E 283. 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Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, hardware, finishes, and installation instructions for each type of aluminum frame storefront system indicated.</p> <p>B. Shop Drawings: Include plans, elevations, sections, details, hardware, and attachments to other work, operational clearances and installation details.</p> <p><b>1.5 QUALITY ASSURANCE</b></p> <p>A. Installer Qualifications: An installer which has had successful experience with installation of the same or similar units required for the project and other projects of similar size and scope.</p> <p>B. Manufacturer Qualifications: A manufacturer capable of providing aluminum framed storefront system that meet or exceed performance requirements indicated and of documenting this performance by inclusion of test reports, and calculations.</p> <p>C. Source Limitations: Obtain aluminum framed storefront system through one source from a single manufacturer.</p> <p><b>1.6 PROJECT CONDITIONS</b></p> <p>A. Field Measurements: Verify actual dimensions of aluminum framed storefront openings by field measurements before fabrication and indicate field measurements on Shop Drawings.</p> <p><b>1.7 WARRANTY</b></p> <p>A. Manufacturer Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty.</p> <ol style="list-style-type: none"> <li>Warranty Period: Two (2) years from Date of Substantial Completion of the project provided however that the Limited Warranty shall begin in no event later than six months from date of engagement by manufacturer.</li> </ol> <p><b>PART 2 - PRODUCTS</b></p> <p><b>2.1 MANUFACTURERS</b></p> <p>A. Basis-of-Design Product:</p> <ol style="list-style-type: none"> <li>Kawneer Company Inc.</li> <li>Tribal® VG 450 (non-Thermal, 2" Siphonal)</li> <li>2" x 4-1/2" (50.8 mm x 114.3 mm) System Dimensions</li> <li>Glass: Front Plane</li> </ol> <p>B. Substitutions:</p> <ol style="list-style-type: none"> <li>Pre-Contract (Bidding Period) Substitutions: Submit written requests ten (10) days prior to bid date.</li> <li>Post-Contract (Construction Period) Substitutions: Submit written request in order to avoid storefront installation and construction delays.</li> <li>Product Literature and Drawings: Submit product literature and drawings modified to suit specific project requirements and job conditions.</li> <li>Certificates: Submit certificate(s) certifying substitute manufacturer (1) attesting to adherence to specification requirements for storefront system performance criteria, and (2) has been engaged in the design, manufacture and fabrication of aluminum storefronts for a period of not less than ten (10) years. (Company Name)</li> <li>Test Reports: Submit test reports verifying compliance with each test requirement required by the project.</li> <li>Samples: Provide samples of typical product sections and finish samples in manufacturer's standard sizes.</li> </ol> <p>C. Substitution Acceptance: Acceptance will be in written form, either as an addendum or modification, and documented by a formal change order signed by the Owner and Contractor.</p> <p><b>2.2 MATERIALS</b></p> <p>A. Aluminum Extrusions: Alloy and temper recommended by aluminum storefront manufacturer for strength, corrosion resistance, and application of required finish and not less than 0.070" wall thickness at any location for the main frame and complying with ASTM B 221; 6063-T6 alloy and temper.</p> <p>B. Fasteners: Aluminum, nonmagnetic stainless steel or other materials to be non-corrosive and compatible with aluminum window members, sills hardware, anchors, and other components.</p> <p>C. Anchors, Clips, and Accessories: Aluminum, nonmagnetic stainless steel, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions or other suitable zinc coating; provide sufficient strength to withstand design pressure indicated.</p> <p>D. Reinforcing Members: Aluminum, nonmagnetic stainless steel, or nickel/chromium-plated steel complying with ASTM B 466 for Type SC 3 severe service conditions, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions or other suitable zinc coating; provide sufficient strength to withstand design pressure indicated.</p> <p>E. Sealant: For sealants required within fabricated storefront system, provide permanently elastic, non-shrinking, and non-migrating type recommended by sealant manufacturer for joint size and movement.</p> <p>F. Tolerances: Reference to tolerances for wall thickness and other cross-sectional dimensions of storefront members are nominal and in compliance with AA Aluminum Standards and Data.</p> <p><b>2.3 STOREFRONT FRAMING SYSTEM</b></p> <p>A. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with nonstaining, nonferrous sills for sligging system components.</p> <p>B. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding fasteners and accessories compatible with adjacent materials. Where exposed shall be stainless steel.</p> <p>C. Perimeter Anchors: When steel anchors are used, provide insulation between steel material and aluminum material to prevent galvanic action.</p> <p>D. Packing, Shipping, Handling and Unloading: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.</p> <p>E. Storage and Protection: Store materials protected from exposure to harmful weather conditions. Handle storefront material and components to avoid damage. Protect storefront material against damage from elements, construction activities, and other hazards before, during and after storefront installation.</p> <p><b>2.4 GLAZING SYSTEMS</b></p> <p>A. Glazing Gaskets: Manufacturer's standard compression types; replaceable, extruded EPDM rubber.</p> <p>B. Spacers and Setting Blocks: Manufacturer's standard elastomeric type.</p> <p>C. Bond-Breaker Tape: Manufacturer's standard TFE-fluorocarbon or polyethylene material to which sealants will not develop adhesion.</p> <p>D. Glazing Sealants: For structural-sealant-glazed systems, as recommended by manufacturer for joint type, and as follows:</p> <ol style="list-style-type: none"> <li>Structural Sealant: ASTM C 1184, single-component neutral-curing silicone formulation that is compatible with system components with which it comes in contact, specifically formulated and tested for use as structural sealant and approved by a structural-sealant manufacturer for use in aluminum-framed systems indicated. <ol style="list-style-type: none"> <li>Coker: Bliak</li> </ol> </li> <li>Weatherseal Sealant: ASTM C 920 for Type S, Grade NS, Class 25, Uses NT, G, A, and O; single-component neutral-curing formulation that is compatible with structural sealant and other system components with which it comes in contact; recommended by structural-sealant, weatherseal-sealant, and aluminum-framed-system manufacturers for the use. <ol style="list-style-type: none"> <li>Coker: Matching structural sealant.</li> </ol> </li> </ol> <p><b>2.5 ACCESSORY MATERIALS</b></p> <p>A. Bituminous Paint: Cold-applied, asphalt-mastic paint complying with SSPC-Paint 12 requirements except containing no asbestos; formulated for 30 mil (0.762 mm) thickness per coat.</p> <p><b>2.6 FABRICATION</b></p> <p>A. Framing Members, General: Fabricate components that, when assembled, have the following characteristics:</p> <ol style="list-style-type: none"> <li>Profiles that are sharp, straight, and free of defects or deformations.</li> </ol> <p><b>2. Accurately fit joints: make joints flush, hairline and weatherproof.</b></p> <p><b>3. Means to drain water passing joints, condensation within framing members, and moisture migrating within the system to exterior.</b></p> <p><b>4. Physical and thermal isolation of glazing from framing members.</b></p> <p><b>5. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances.</b></p> <p><b>6. Provisions for field replacement of glazing.</b></p> <p><b>7. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.</b></p> <p><b>B. Mechanically Glazed Framing Members: Fabricate for flush glazing without projecting stops.</b></p> <p><b>C. Storefront Framing: Fabricate components for assembly using manufacturer's standard installation instructions.</b></p> <p><b>2.7 ALUMINUM FINISHES</b></p> <p>A. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.</p> <p>B. Factory Finishing:</p> <ol style="list-style-type: none"> <li>Kawneer Pemanodic® AAM12C22444, AAMA 611, Architectural Class I Color Anodic Coating (Color Dark Bronze)</li> </ol> <p><b>PART 3 - EXECUTION</b></p> <p><b>3.1 EXAMINATION</b></p> <p>A. Examine openings, substrates, structural support, anchorage, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work. Verify rough opening dimensions, levelness of all glass and operational clearances. Examine wall flashings, vapor barriers, water and weather barriers, and other built-in components to ensure a coordinated, weather tight aluminum framed storefront system installation.</p> <ol style="list-style-type: none"> <li>Masonry Surfaces: Visibly dry and free of excess mortar, sand, and other construction debris.</li> <li>Wood Frame Walls: Dry, clean, sound, well nailed; free of voids, and without offsets at joints. Ensure that nail heads are driven flush with surfaces in opening and within 3 inches (76 mm) of opening.</li> <li>Metal Surfaces: Dry; clean; free of grease, oil, dirt, rust, corrosion, and welding slag; without sharp edges or offsets at joints.</li> <li>Proceed with installation only after unsatisfactory conditions have been corrected.</li> </ol> <p><b>3.2 INSTALLATION</b></p> <p>A. Comply with Drawings, Shop Drawings, and manufacturer's written instructions for installing aluminum framed storefront system, accessories, and other components.</p> <p>B. Install aluminum framed storefront system level, plumb, square, true to line, without distortion or impeding thermal movement, anchored securely in place to structural support, and in proper relation to wall flashing and other adjacent construction.</p> <p>C. Set all members in bed of sealant or with gaskets, as indicated, for weather tight construction.</p> <p>D. Install aluminum framed storefront system and components to drain condensation, water penetrating joints, and moisture migrating within sliding door to the exterior.</p> <p>E. Separate aluminum and other corrosion surfaces from sources of corrosion or electrolytic action at points of contact with other materials.</p> <p><b>3.3 ADJUSTING, CLEANING, AND PROTECTION</b></p> <p>A. Clean aluminum surfaces immediately after installing aluminum framed storefronts. Avoid damaging protective coatings and finishes. Remove excess sealants, glazing materials, dirt, and other substances.</p> <p>B. Clean glass immediately after installation. Comply with glass manufacturer's written recommendations for final cleaning and maintenance. Remove nonpermanent labels, and clean surfaces.</p> <p>C. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during construction period.</p> <p><b>END OF SECTION 084113</b></p>			
B	<p><b>SECTION 084113 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS</b></p> <p><b>PART 1 - GENERAL</b></p> <p><b>1.1 SUMMARY</b></p> <p>A. Section Includes: Kawneer Architectural Aluminum Storefront Systems, including perimeter trim, stools, accessories, sills and anchors, and perimeter sealing of storefront units.</p> <p>1. Types of Kawneer Aluminum Storefront Systems Include:</p> <ol style="list-style-type: none"> <li>Tribal® VG 450 (2" Siphonal) Storefront System - 2" x 4-1/2" (50.8 mm x 114.3 mm) nominal dimension; Non-Thermal; Front Plane, Structural Silicone or Vitriflex® Glass, Silk Fabrication.</li> </ol> <p><b>1.2 DEFINITIONS</b></p> <p>A. Definitions: For fenestration industry standard terminology and definitions refer to American Architectural Manufacturers Association (AAMA) - AAMA Glossary (AAMA AG).</p> <p><b>1.3 PERFORMANCE REQUIREMENTS</b></p> <p>A. General Performance: Aluminum-framed storefront system shall withstand the effects of the following performance requirements without exceeding performance criteria or failure due to defective manufacture, fabrication, installation, or other defects in construction:</p> <ol style="list-style-type: none"> <li>Design Wind Loads: Determine design wind loads applicable to the Project from basic wind speed indicated in miles per hour, according to ASCE 7, Section 5.5, "Method 2-Analysis Procedures," based on mean roof heights above grade indicated on Drawings. <ol style="list-style-type: none"> <li>Basic Wind Speed (MPH): (110 mph)</li> <li>Importance Factor (I, II, III): (1, 1.15)</li> <li>Exposure Category (A, B, C, D): (B)</li> </ol> </li> <li>Storefront System Performance Requirements: <ol style="list-style-type: none"> <li>Air Infiltration: The test specimen shall be tested in accordance with ASTM E 283. Air infiltration rate shall not exceed 0.06 cfm/ft<sup>2</sup> (0.3 l/s · m<sup>2</sup>) at a static air pressure differential of 6.24 psf (300 Pa).</li> <li>Water Resistance: The test specimen shall be tested in accordance with ASTM E 331. There shall be no leakage at a minimum static air pressure differential of 8 psf (383 Pa) as defined in AAMA 501.</li> <li>Uniform Load: A static air design load of 20 psf (958 Pa) shall be applied in the positive and negative direction in accordance with ASTM E 330. There shall be no deflection in excess of L/175 of the span of any framing member. At a structural test load equal to 1.5 times the specified design load, no glass breakage or permanent set in the framing members in excess of 0.2% of their clear spans shall occur.</li> </ol> </li> </ol> <p><b>1.4 SUBMITTALS</b></p> <p>A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, hardware, finishes, and installation instructions for each type of aluminum frame storefront system indicated.</p> <p>B. Shop Drawings: Include plans, elevations, sections, details, hardware, and attachments to other work, operational clearances and installation details.</p> <p><b>1.5 QUALITY ASSURANCE</b></p> <p>A. Installer Qualifications: An installer which has had successful experience with installation of the same or similar units required for the project and other projects of similar size and scope.</p> <p>B. Manufacturer Qualifications: A manufacturer capable of providing aluminum framed storefront system that meet or exceed performance requirements indicated and of documenting this performance by inclusion of test reports, and calculations.</p> <p>C. Source Limitations: Obtain aluminum framed storefront system through one source from a single manufacturer.</p> <p><b>1.6 PROJECT CONDITIONS</b></p> <p>A. Field Measurements: Verify actual dimensions of aluminum framed storefront openings by field measurements before fabrication and indicate field measurements on Shop Drawings.</p> <p><b>1.7 WARRANTY</b></p> <p>A. Manufacturer Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty.</p> <ol style="list-style-type: none"> <li>Warranty Period: Two (2) years from Date of Substantial Completion of the project provided however that the Limited Warranty shall begin in no event later than six months from date of engagement by manufacturer.</li> </ol> <p><b>PART 2 - PRODUCTS</b></p> <p><b>2.1 MANUFACTURERS</b></p> <p>A. Basis-of-Design Product:</p> <ol style="list-style-type: none"> <li>Kawneer Company Inc.</li> <li>Tribal® VG 450 (non-Thermal, 2" Siphonal)</li> <li>2" x 4-1/2" (50.8 mm x 114.3 mm) System Dimensions</li> <li>Glass: Front Plane</li> </ol> <p>B. Substitutions:</p> <ol style="list-style-type: none"> <li>Pre-Contract (Bidding Period) Substitutions: Submit written requests ten (10) days prior to bid date.</li> <li>Post-Contract (Construction Period) Substitutions: Submit written request in order to avoid storefront installation and construction delays.</li> <li>Product Literature and Drawings: Submit product literature and drawings modified to suit specific project requirements and job conditions.</li> <li>Certificates: Submit certificate(s) certifying substitute manufacturer (1) attesting to adherence to specification requirements for storefront system performance criteria, and (2) has been engaged in the design, manufacture and fabrication of aluminum storefronts for a period of not less than ten (10) years. (Company Name)</li> <li>Test Reports: Submit test reports verifying compliance with each test requirement required by the project.</li> <li>Samples: Provide samples of typical product sections and finish samples in manufacturer's standard sizes.</li> </ol> <p>C. Substitution Acceptance: Acceptance will be in written form, either as an addendum or modification, and documented by a formal change order signed by the Owner and Contractor.</p> <p><b>2.2 MATERIALS</b></p> <p>A. Aluminum Extrusions: Alloy and temper recommended by aluminum storefront manufacturer for strength, corrosion resistance, and application of required finish and not less than 0.070" wall thickness at any location for the main frame and complying with ASTM B 221; 6063-T6 alloy and temper.</p> <p>B. Fasteners: Aluminum, nonmagnetic stainless steel or other materials to be non-corrosive and compatible with aluminum window members, sills hardware, anchors, and other components.</p> <p>C. Anchors, Clips, and Accessories: Aluminum, nonmagnetic stainless steel, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions or other suitable zinc coating; provide sufficient strength to withstand design pressure indicated.</p> <p>D. Reinforcing Members: Aluminum, nonmagnetic stainless steel, or nickel/chromium-plated steel complying with ASTM B 466 for Type SC 3 severe service conditions, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions or other suitable zinc coating; provide sufficient strength to withstand design pressure indicated.</p> <p>E. Sealant: For sealants required within fabricated storefront system, provide permanently elastic, non-shrinking, and non-migrating type recommended by sealant manufacturer for joint size and movement.</p> <p>F. Tolerances: Reference to tolerances for wall thickness and other cross-sectional dimensions of storefront members are nominal and in compliance with AA Aluminum Standards and Data.</p> <p><b>2.3 STOREFRONT FRAMING SYSTEM</b></p> <p>A. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with nonstaining, nonferrous sills for sligging system components.</p> <p>B. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding fasteners and accessories compatible with adjacent materials. Where exposed shall be stainless steel.</p> <p>C. Perimeter Anchors: When steel anchors are used, provide insulation between steel material and aluminum material to prevent galvanic action.</p> <p>D. Packing, Shipping, Handling and Unloading: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.</p> <p>E. Storage and Protection: Store materials protected from exposure to harmful weather conditions. Handle storefront material and components to avoid damage. Protect storefront material against damage from elements, construction activities, and other hazards before, during and after storefront installation.</p> <p><b>2.4 GLAZING SYSTEMS</b></p> <p>A. Glazing Gaskets: Manufacturer's standard compression types; replaceable, extruded EPDM rubber.</p> <p>B. Spacers and Setting Blocks: Manufacturer's standard elastomeric type.</p> <p>C. Bond-Breaker Tape: Manufacturer's standard TFE-fluorocarbon or polyethylene material to which sealants will not develop adhesion.</p> <p>D. Glazing Sealants: For structural-sealant-glazed systems, as recommended by manufacturer for joint type, and as follows:</p> <ol style="list-style-type: none"> <li>Structural Sealant: ASTM C 1184, single-component neutral-curing silicone formulation that is compatible with system components with which it comes in contact, specifically formulated and tested for use as structural sealant and approved by a structural-sealant manufacturer for use in aluminum-framed systems indicated. <ol style="list-style-type: none"> <li>Coker: Bliak</li> </ol> </li> <li>Weatherseal Sealant: ASTM C 920 for Type S, Grade NS, Class 25, Uses NT, G, A, and O; single-component neutral-curing formulation that is compatible with structural sealant and other system components with which it comes in contact; recommended by structural-sealant, weatherseal-sealant, and aluminum-framed-system manufacturers for the use. <ol style="list-style-type: none"> <li>Coker: Matching structural sealant.</li> </ol> </li> </ol> <p><b>2.5 ACCESSORY MATERIALS</b></p> <p>A. Bituminous Paint: Cold-applied, asphalt-mastic paint complying with SSPC-Paint 12 requirements except containing no asbestos; formulated for 30 mil (0.762 mm) thickness per coat.</p> <p><b>2.6 FABRICATION</b></p> <p>A. Framing Members, General: Fabricate components that, when assembled, have the following characteristics:</p> <ol style="list-style-type: none"> <li>Profiles that are sharp, straight, and free of defects or deformations.</li> </ol> <p><b>2. Accurately fit joints: make joints flush, hairline and weatherproof.</b></p> <p><b>3. Means to drain water passing joints, condensation within framing members, and moisture migrating within the system to exterior.</b></p> <p><b>4. Physical and thermal isolation of glazing from framing members.</b></p> <p><b>5. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances.</b></p> <p><b>6. Provisions for field replacement of glazing.</b></p> <p><b>7. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.</b></p> <p><b>B. Mechanically Glazed Framing Members: Fabricate for flush glazing without projecting stops.</b></p> <p><b>C. Storefront Framing: Fabricate components for assembly using manufacturer's standard installation instructions.</b></p> <p><b>2.7 ALUMINUM FINISHES</b></p> <p>A. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.</p> <p>B. Factory Finishing:</p> <ol style="list-style-type: none"> <li>Kawneer Pemanodic® AAM12C22444, AAMA 611, Architectural Class I Color Anodic Coating (Color Dark Bronze)</li> </ol> <p><b>PART 3 - EXECUTION</b></p> <p><b>3.1 EXAMINATION</b></p> <p>A. Examine openings, substrates, structural support, anchorage, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work. Verify rough opening dimensions, levelness of all glass and operational clearances. Examine wall flashings, vapor barriers, water and weather barriers, and other built-in components to ensure a coordinated, weather tight aluminum framed storefront system installation.</p> <ol style="list-style-type: none"> <li>Masonry Surfaces: Visibly dry and free of excess mortar, sand, and other construction debris.</li> <li>Wood Frame Walls: Dry, clean, sound, well nailed; free of voids, and without offsets at joints. Ensure that nail heads are driven flush with surfaces in opening and within 3 inches (76 mm) of opening.</li> <li>Metal Surfaces: Dry; clean; free of grease, oil, dirt, rust, corrosion, and welding slag; without sharp edges or offsets at joints.</li> <li>Proceed with installation only after unsatisfactory conditions have been corrected.</li> </ol> <p><b>3.2 INSTALLATION</b></p> <p>A. Comply with Drawings, Shop Drawings, and manufacturer's written instructions for installing aluminum framed storefront system, accessories, and other components.</p> <p>B. Install aluminum framed storefront system level, plumb, square, true to line, without distortion or impeding thermal movement, anchored securely in place to structural support, and in proper relation to wall flashing and other adjacent construction.</p> <p>C. Set all members in bed of sealant or with gaskets, as indicated, for weather tight construction.</p> <p>D. Install aluminum framed storefront system and components to drain condensation, water penetrating joints, and moisture migrating within sliding door to the exterior.</p> <p>E. Separate aluminum and other corrosion surfaces from sources of corrosion or electrolytic action at points of contact with other materials.</p> <p><b>3.3 ADJUSTING, CLEANING, AND PROTECTION</b></p> <p>A. Clean aluminum surfaces immediately after installing aluminum framed storefronts. Avoid damaging protective coatings and finishes. Remove excess sealants, glazing materials, dirt, and other substances.</p> <p>B. Clean glass immediately after installation. Comply with glass manufacturer's written recommendations for final cleaning and maintenance. Remove nonpermanent labels, and clean surfaces.</p> <p>C. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during construction period.</p> <p><b>END OF SECTION 084113</b></p>			
A	<p><b>SECTION 084113 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS</b></p> <p><b>PART 1 - GENERAL</b></p> <p><b>1.1 SUMMARY</b></p> <p>A. Section Includes: Kawneer Architectural Aluminum Storefront Systems, including perimeter trim, stools, accessories, sills and anchors, and perimeter sealing of storefront units.</p> <p>1. Types of Kawneer Aluminum Storefront Systems Include:</p> <ol style="list-style-type: none"> <li>Tribal® VG 450 (2" Siphonal) Storefront System - 2" x 4-1/2" (50.8 mm x 114.3 mm) nominal dimension; Non-Thermal; Front Plane, Structural Silicone or Vitriflex® Glass, Silk Fabrication.</li> </ol> <p><b>1.2 DEFINITIONS</b></p> <p>A. Definitions: For fenestration industry standard terminology and definitions refer to American Architectural Manufacturers Association (AAMA) - AAMA Glossary (AAMA AG).</p> <p><b>1.3 PERFORMANCE REQUIREMENTS</b></p> <p>A. General Performance: Aluminum-framed storefront system shall withstand the effects of the following performance requirements without exceeding performance criteria or failure due to defective manufacture, fabrication, installation, or other defects in construction:</p> <ol style="list-style-type: none"> <li>Design Wind Loads: Determine design wind loads applicable to the Project from basic wind speed indicated in miles per hour, according to ASCE 7, Section 5.5, "Method 2-Analysis Procedures," based on mean roof heights above grade indicated on Drawings. <ol style="list-style-type: none"> <li>Basic Wind Speed (MPH): (110 mph)</li> <li>Importance Factor (I, II, III): (1, 1.15)</li> <li>Exposure Category (A, B, C, D): (B)</li> </ol> </li> <li>Storefront System Performance Requirements: <ol style="list-style-type: none"> <li>Air Infiltration: The test specimen shall be tested in accordance with ASTM E 283. Air infiltration rate shall not exceed 0.06 cfm/ft<sup>2</sup> (0.3 l/s · m<sup>2</sup>) at a static air pressure differential of 6.24 psf (300 Pa).</li> <li>Water Resistance: The test specimen shall be tested in accordance with ASTM E 331. There shall be no leakage at a minimum static air pressure differential of 8 psf (383 Pa) as defined in AAMA 501.</li> <li>Uniform Load: A static air design load of 20 psf (958 Pa) shall be applied in the positive and negative direction in accordance with ASTM E 330. There shall be no deflection in excess of L/175 of the span of any framing member. At a structural test load equal to 1.5 times the specified design load, no glass breakage or permanent set in the framing members in excess of 0.2% of their clear spans shall occur.</li> </ol> </li> </ol> <p><b>1.4 SUBMITTALS</b></p> <p>A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, hardware, finishes, and installation instructions for each type of aluminum frame storefront system indicated.</p> <p>B. Shop Drawings: Include plans, elevations, sections, details, hardware, and attachments to other work, operational clearances and installation details.</p> <p><b>1.5 QUALITY ASSURANCE</b></p> <p>A. Installer Qualifications: An installer which has had successful experience with installation of the same or similar units required for the project and other projects of similar size and scope.</p> <p>B. Manufacturer Qualifications: A manufacturer capable of providing aluminum framed storefront system that meet or exceed performance requirements indicated and of documenting this performance by inclusion of test reports, and calculations.</p> <p>C. Source Limitations: Obtain aluminum framed storefront system through one source from a single manufacturer.</p> <p><b>1.6 PROJECT CONDITIONS</b></p> <p>A. Field Measurements: Verify actual dimensions of aluminum framed storefront openings by field measurements before fabrication and indicate field measurements on Shop Drawings.</p> <p><b>1.7 WARRANTY</b></p> <p>A. Manufacturer Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty.</p> <ol style="list-style-type: none"> <li>Warranty Period: Two (2) years from Date of Substantial Completion of the project provided however that the Limited Warranty shall begin in no event later than six months from date of engagement by manufacturer.</li> </ol> <p><b>PART 2 - PRODUCTS</b></p> <p><b>2.1 MANUFACTURERS</b></p> <p>A. Basis-of-Design Product:</p> <ol style="list-style-type: none"> <li>Kawneer Company Inc.</li> <li>Tribal® VG 450 (non-Thermal, 2" Siphonal)</li> <li>2" x 4-1/2" (50.8 mm x 114.3 mm) System Dimensions</li> <li>Glass: Front Plane</li> </ol> <p>B. Substitutions:</p> <ol style="list-style-type: none"> <li>Pre-Contract (Bidding Period) Substitutions: Submit written requests ten (10) days prior to bid date.</li> <li>Post-Contract (Construction Period) Substitutions: Submit written request in order to avoid storefront installation and construction delays.</li> <li>Product Literature and Drawings: Submit product literature and drawings modified to suit specific project requirements and job conditions.</li> <li>Certificates: Submit certificate(s) certifying substitute manufacturer (1) attesting to adherence to specification requirements for storefront system performance criteria, and (2) has been engaged in the design, manufacture and fabrication of aluminum storefronts for a period of not less than ten (10) years. (Company Name)</li> <li>Test Reports: Submit test reports verifying compliance with each test requirement required by the project.</li> <li>Samples: Provide samples of typical product sections and finish samples in manufacturer's standard sizes.</li> </ol> <p>C. Substitution Acceptance: Acceptance will be in written form, either as an addendum or modification, and documented by a formal change order signed by the Owner and Contractor.</p> <p><b>2.2 MATERIALS</b></p> <p>A. Aluminum Extrusions: Alloy and temper recommended by aluminum storefront manufacturer for strength, corrosion resistance, and application of required finish and not less than 0.070" wall thickness at any location for the main frame and complying with ASTM B 221; 6063-T6 alloy and temper.</p> <p>B. Fasteners: Aluminum, nonmagnetic stainless steel or other materials to be non-corrosive and compatible with aluminum window members, sills hardware, anchors, and other components.</p> <p>C. Anchors, Clips, and Accessories: Aluminum, nonmagnetic stainless steel, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions or other suitable zinc coating; provide sufficient strength to withstand design pressure indicated.</p> <p>D. Reinforcing Members: Aluminum, nonmagnetic stainless steel, or nickel/chromium-plated steel complying with ASTM B 466 for Type SC 3 severe service conditions, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions or other suitable zinc coating; provide sufficient strength to withstand design pressure indicated.</p>			



ISSUE LOG		
NO.	DATE	DESCRIPTION
3	3-10-14	CONSTRUCTION DOCUMENTS

**CITY OF HOUSTON**  
GENERAL SERVICES DEPARTMENT

900 BAGBY, HOUSTON, TX 77002

PROJECT NAME :  
**AUTOMATIC ENTRY DOOR OPERATORS – CDBG**

WBS No. H-000102-0003-4

APPROVALS :

PROJECT MANAGER	DATE
CHIEF ENGINEER	DATE
ASSISTANT DIRECTOR	DATE

CONSULTANTS:

**ARCHITECT:**  
English + Associates Architects, Inc.  
1616 DECATUR HOUSTON, TEXAS 77007  
713.951.2111

**MEP ENGINEER:**  
Infrastructure Associates  
INFRASTRUCTURE ASSOCIATES, INC.  
617 RICHMOND AVENUE, SUITE 200  
HOUSTON, TEXAS 77057  
TYPE REGISTRATION NO. F-4506  
C/O 322-020 PH (713) 622-0557 FAX  
WWW.IAHOUSTON.COM

**ACCESSIBILITY DESIGNANT:**  
ACCESSIBLE DESIGN SOLUTIONS  
505 N. SAM HOUSTON PARKWAY E., SUITE 280  
HOUSTON, TEXAS 77060

E+A PROJECT NO : 14001.02

ACAD DWG. FILE :

DRAWN BY :

CHECKED BY :

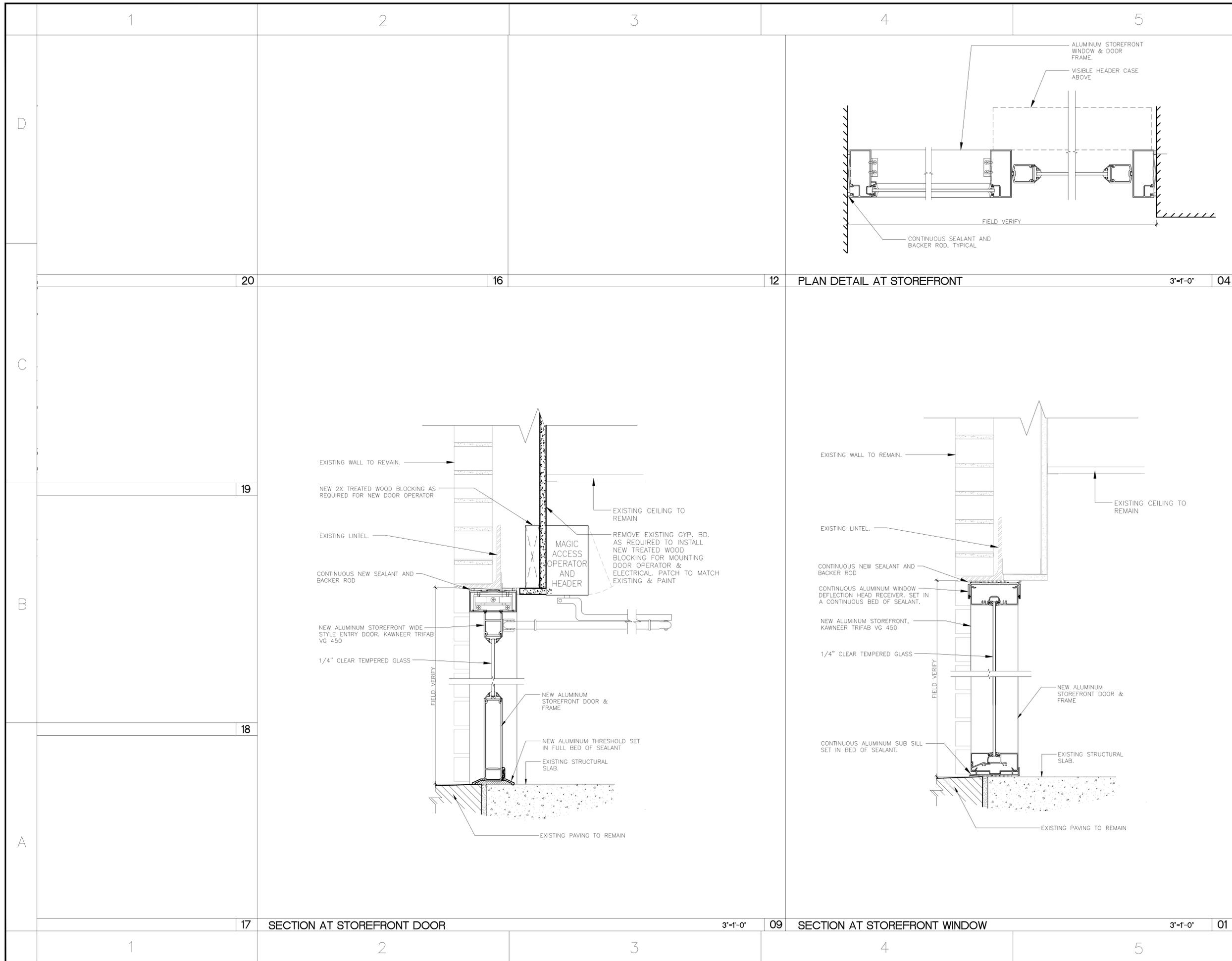
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SHEET TITLE :  
**DETAILS**

**A3-02**

SHEET NO. 12 OF 20 SHEETS

CITY DWG NO :



ISSUE LOG		
NO.	DATE	DESCRIPTION
3	3-10-14	CONSTRUCTION DOCUMENTS

*Kathleen A. English*  
3-10-14

**CITY OF HOUSTON**  
GENERAL SERVICES DEPARTMENT

900 BAGBY, HOUSTON, TX 77002

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WBS No. H-000102-0003-4

APPROVALS :

PROJECT MANAGER	DATE
CHIEF ENGINEER	DATE
ASSISTANT DIRECTOR	DATE

CONSULTANTS:

**ARCHITECT:**  
English + Associates Architects, Inc.  
1818 DECATUR HOUSTON, TEXAS 77007-7638 713 855 8417

**MEP ENGINEER:**  
Infrastructure Associates  
INFRASTRUCTURE ASSOCIATES, INC. 617 RICHMOND AVENUE, SUITE 200 HOUSTON, TEXAS 77057 TEPB REGISTRATION NO. F-4506 (713) 622-0020 PH (713) 622-0557 FAX WWW.IAHOUSTON.COM

**ACCESSIBILITY CONSULTANT:**  
ACCESSIBLE DESIGN SOLUTIONS 505 N. SAM HOUSTON PARKWAY E., SUITE 280 HOUSTON, TEXAS 77060

E+A PROJECT NO : 14001.02

ACAD DWG. FILE :

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SHEET TITLE :  
**DETAILS AND NOTES**

**A3-03**

SHEET NO. 13 OF 20 SHEETS

CITY DWG NO :

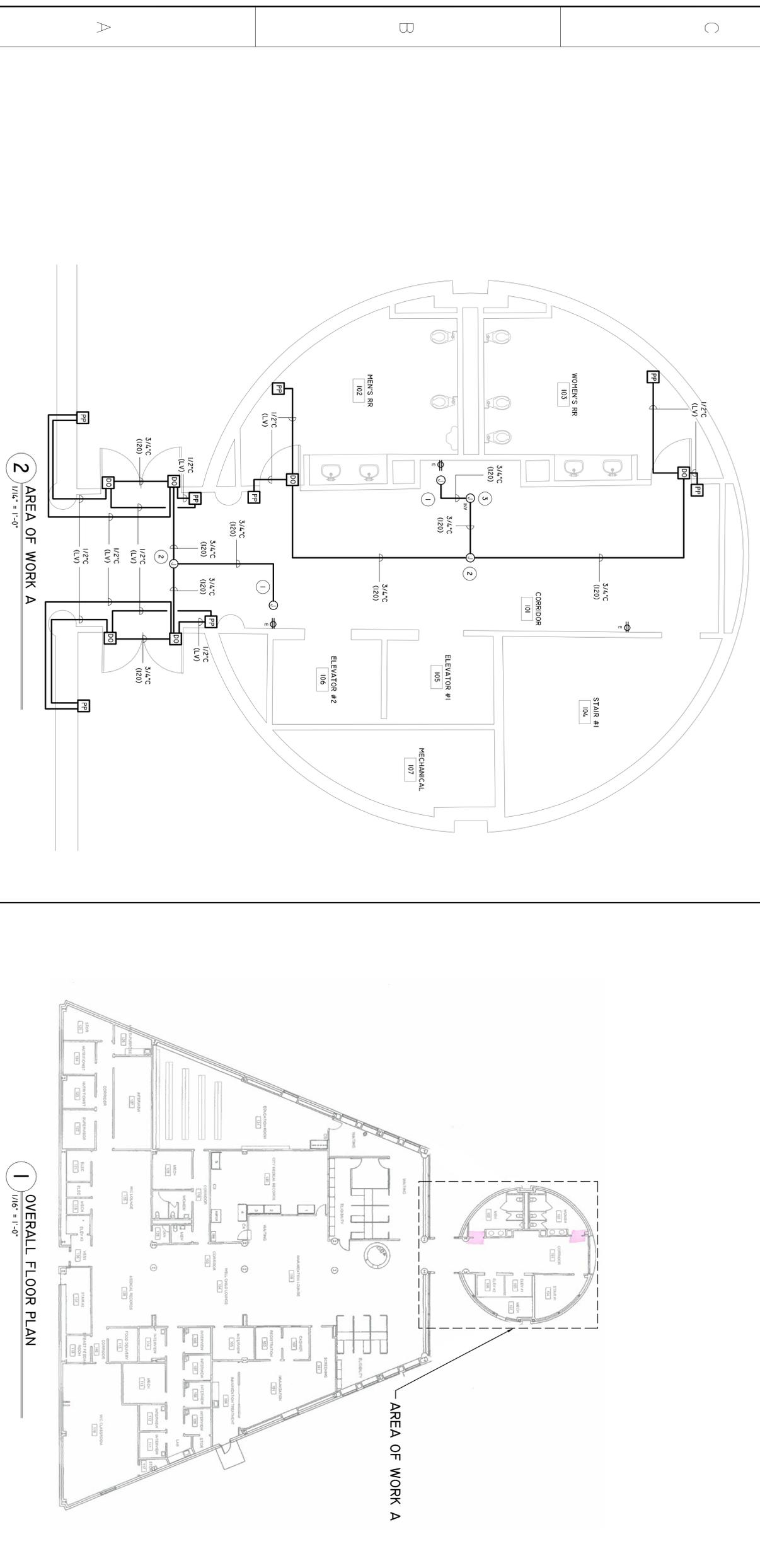




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- GENERAL NOTES:**
- 1 - CORRELATE EXACT LOCATION OF ALL DEVICES AND CONDUIT ROUTING WITH ARCHITECT PAPER TO ROOM IN.
  - 2 - THE ELECTRICAL CONTRACTOR WILL LOCATE AN EXISTING J-BOX IN THIS AREA (ALLOW AN ADDITIONAL 50') FOR UTILIZATION. THE 120V CIRCUIT THAT IS PROVIDING POWER TO THIS CORRIDOR RECEPTACLE WILL BE UTILIZED TO PROVIDE POWER TO THE NEW DOOR OPERATORS. ROUTE 3/4" EMT CONDUIT AND HOLDERS RETURNING THE CEILING ASSEMBLY AND WALLS TO THE SAME CONDITION (AND ARCHITECT SATISFACTION) AFTER INSTALLATION WILL ALSO BE THE RESPONSIBILITY OF THE CONTRACTOR.
  - 3 - LOCATE THIS NEW J-BOX ABOVE AN ACCESSIBLE CEILING (ALLOW FOR UP TO 50') IF ACCESSIBLE CEILING IS MORE THAN 50' AWAY. CORRELATE A LOCATION WITH THE ARCHITECT FOR INSTALLATION OF AN ACCESS PANEL. THE ELECTRICAL CONTRACTOR WILL PROVIDE AND INSTALL 3/4" CONDUIT AND 120V POWER FROM THIS NEW J-BOX TO EACH DOOR OPENER. THE CONTRACTOR WILL ALSO PROVIDE A PATHWAY BETWEEN EACH NEW PUSH BUTTON AND DOOR OPERATOR FOR ROUTING OF LOW VOLTAGE WIRING. COORDINATE WITH MECHANICAL PROVIDER FOR THEIR EXACT REQUIREMENTS FROM TO ROOM IN.
  - 3 - THE ELECTRICAL CONTRACTOR WILL PROVIDE AND ROUTE NORMAL POWER VIA A ROUTED EL-550 OR SIMILAR BATTERY INVERTER. THE INVERTER WILL BE LOCATED ABOVE AN ACCESSIBLE CEILING NEAR THE NEW POWER J-BOX.



NO.	DATE	DESCRIPTION
1	1-15-14	SCHEMATIC DESIGN
2	1-30-14	DESIGN DEVELOPMENT
3	3-10-14	CONSTRUCTION DOCUMENTS

**CITY OF HOUSTON**  
**GENERAL SERVICES**  
**DEPARTMENT**

900 BAGBY, HOUSTON, TX 77002

PROJECT NAME :  
 AUTOMATIC ENTRY  
 DOOR OPERATORS - CDBG  
 LA NUEVA CASA DE AMIGOS  
 HEALTH CENTER  
 1809 NORTH MAIN  
 HOUSTON, TEXAS 77002  
 WBS No. H-000102-0003-4

APPROVALS :

PROJECT MANAGER	DATE
CHIEF ENGINEER	DATE
ASSISTANT DIRECTOR	DATE

CONSULTANTS:

ARCHITECT:  
**English + Associates**  
 Architects, Inc.  
 1111 GLENDALE  
 SUITE 200  
 HOUSTON, TEXAS 77002  
 PHONE: 713.865.1111  
 WWW.ELASOCIATES.COM

MEP ENGINEER:  
**Infrastructure Associates**  
 INFRASTRUCTURE ASSOCIATES, INC.  
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 HOUSTON, TEXAS 77037  
 PHONE: 281.779.7797  
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ACCESSIBILITY DESIGN CONSULTANT:  
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 HOUSTON, TEXAS 77060

E-A PROJECT NO : 14001.02

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**ELECTRICAL FLOOR PLAN - LA NUEVA CASA DE AMIGOS HC**

**E2-02**

SHEET NO. OF SHEETS

CITY DWG NO :

ISSUE LOG	
NO.	DESCRIPTION
1	1-15-14 SCHEMATIC DESIGN
2	1-30-14 DESIGN DEVELOPMENT
3	3-10-14 CONSTRUCTION DOCUMENTS

**CITY OF HOUSTON**  
GENERAL SERVICES  
DEPARTMENT



900 BAGBY, HOUSTON, TX 77002

PROJECT NAME :  
**AUTOMATIC ENTRY  
DOOR OPERATIONS** - CDBG  
**MAGNOLIA MULTI-SERVICE CENTER**  
7087 CAPITOL  
HOUSTON, TEXAS 77011

WBS No. H-000102-0003-4

APPROVALS :

PROJECT MANAGER	DATE
CHIEF ENGINEER	DATE
ASSISTANT DIRECTOR	DATE

CONSULTANTS:

ARCHITECT:  
**English + Associates**  
Architects, Inc.  
5515 GLENDALE  
HOUSTON, TEXAS 77057  
77002-7798

MEP ENGINEER:  
**Infrastructure Associates**  
INFRASTRUCTURE ASSOCIATES, INC.  
10000 WESTHELL DRIVE, SUITE 200  
HOUSTON, TEXAS 77037  
77036-3511 FAX  
WWW.INFRASTRUCTURE.COM

ACCESSIBILITY DESIGN CONSULTANT:  
**ACCESSIBLE DESIGN SOLUTIONS**  
595 N. SAM HOUSTON PARKWAY E, SUITE 280  
HOUSTON, TEXAS 77060

E-A PROJECT NO. : 14001.02  
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SHEET TITLE :  
**ELECTRICAL FLOOR  
PLAN - MAGNOLIA  
MSC/H/C**

**E2-03**

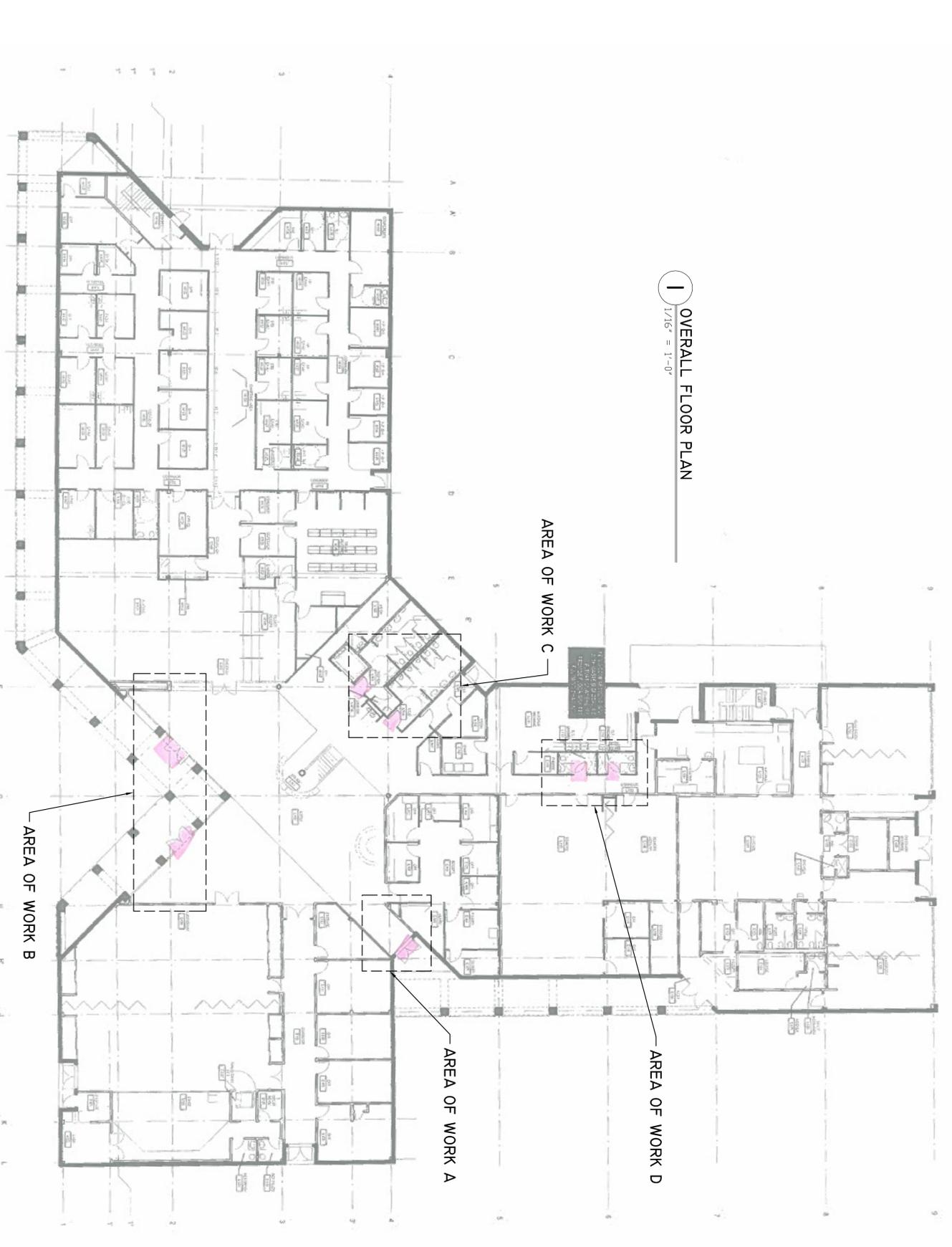
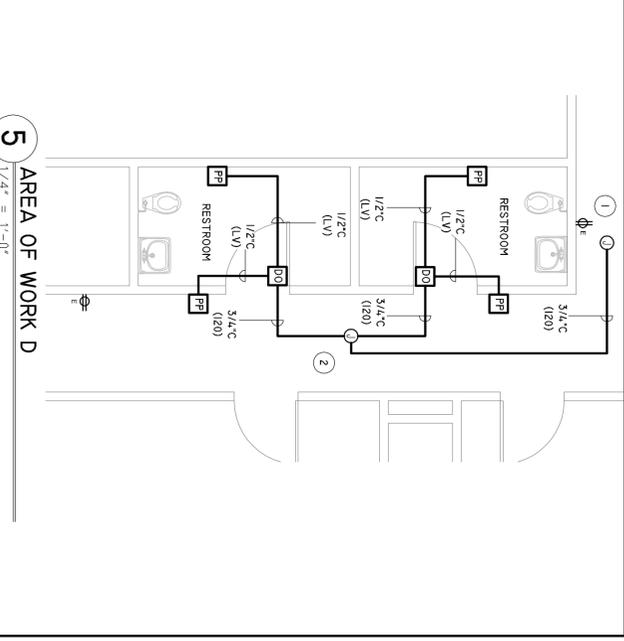
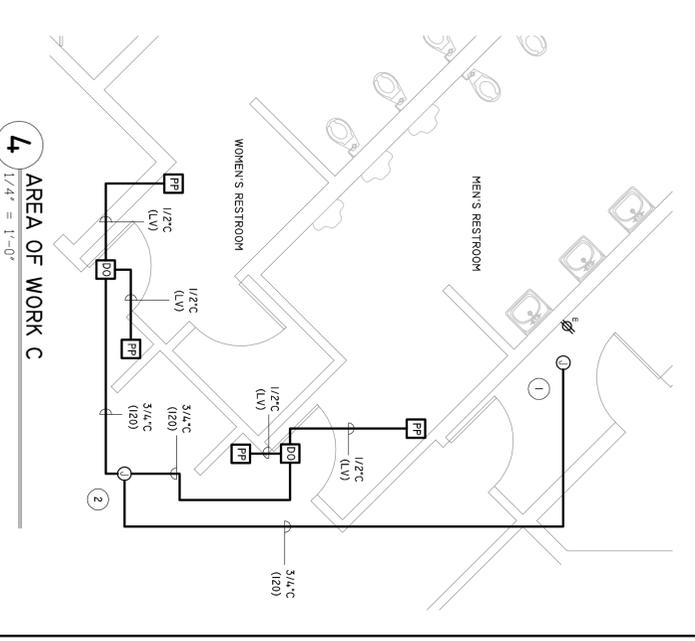
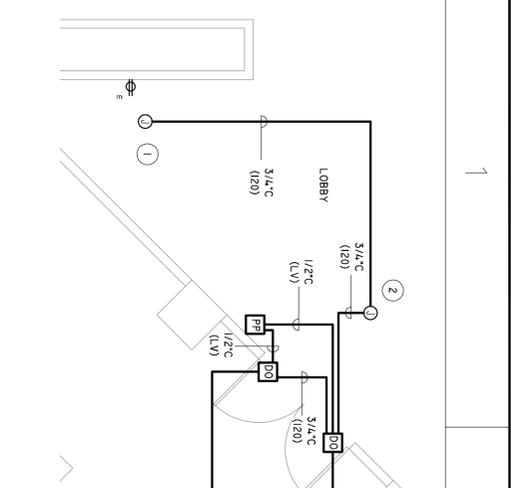
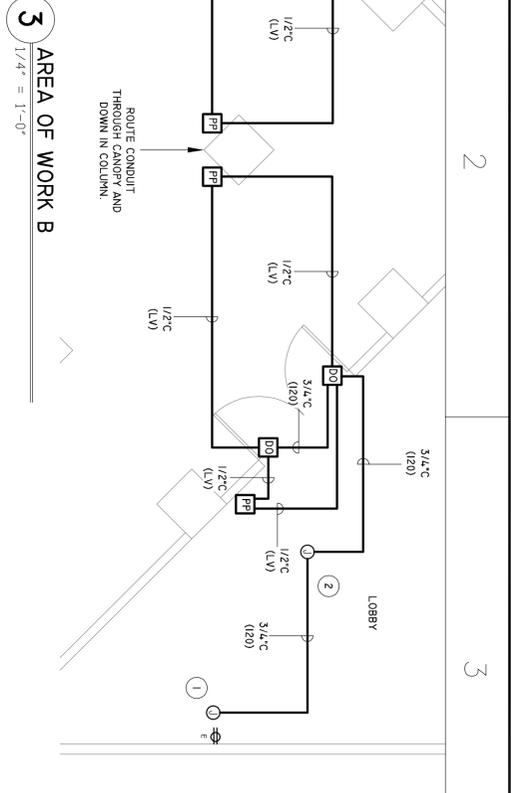
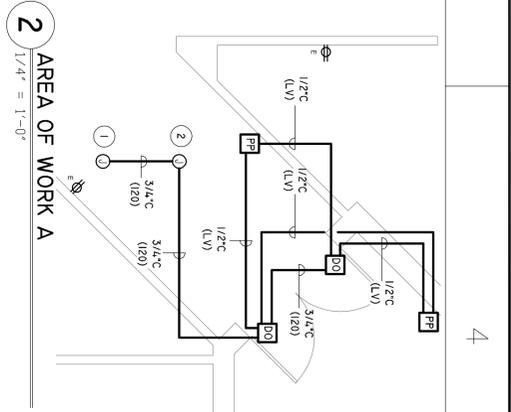
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CITY DWG NO. :

**KEYED NOTES:**

- 1 - THE ELECTRICAL CONTRACTOR WILL LOCATE AN EXISTING J-BOX IN THIS AREA (ALLOW AN ADDITIONAL 50') FOR UTILIZATION. THE 120V CIRCUIT THAT IS PROVIDING POWER TO THIS CORRIDOR RECEPTACLE WILL BE UTILIZED TO PROVIDE POWER TO THE NEW DOOR OPERATORS. ROUTE 3/4" EMT CONDUIT AND 3#10 THIN TO A NEW CONTRACTOR-PROVIDED J-BOX NEAR THE NEW DOOR HOLDERS. RETURNING THE CEILING ASSEMBLY AND WALLS TO THE SAME CONDITION (AND ARCHITECT SATISFACTION) AFTER INSTALLATION WILL ALSO BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 2 - LOCATE THIS NEW J-BOX ABOVE AN ACCESSIBLE CEILING (ALLOW FOR UP TO 50'). IF ACCESSIBLE INSTALLATION OF AN ACCESS PANEL, THE ELECTRICAL CONTRACTOR WILL PROVIDE AND INSTALL INSTALLATION OF AN ACCESS PANEL. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONDUIT PROVIDE AND INSTALL BETWEEN NEW J-BOX AND DOOR OPERATOR RECEPTOR. ROUTING OF LOW VOLTAGE WIRING. COORDINATE WITH HARDWARE PROVIDER FOR THEIR EXACT REQUIREMENTS PRIOR TO ROUGH-IN.

**GENERAL NOTES:**

- 1 - COORDINATE EXACT LOCATION OF ALL DEVICES AND CONDUIT ROUTING WITH ARCHITECT PRIOR TO ROUGH IN.



**1 OVERALL FLOOR PLAN**  
1/16" = 1'-0"

**4 AREA OF WORK C**  
1/4" = 1'-0"

**3 AREA OF WORK B**  
1/4" = 1'-0"

**2 AREA OF WORK A**  
1/4" = 1'-0"

**5 AREA OF WORK D**  
1/4" = 1'-0"

ISSUE LOG		
NO.	DATE	DESCRIPTION
1	1-15-14	SCHEMATIC DESIGN
2	1-30-14	DESIGN DEVELOPMENT
3	3-10-14	CONSTRUCTION DOCUMENTS



**CITY OF HOUSTON**  
GENERAL SERVICES  
DEPARTMENT



900 BAGBY, HOUSTON, TX 77002

PROJECT NAME :

**AUTOMATIC ENTRY  
DOOR OPERATORS – CDBG  
NORTH-EAST MULTI-SERVICE CENTER  
9720 SPALDING  
HOUSTON TEXAS 77016**

WBS NO. H-000102-0003-4

APPROVALS :

PROJECT MANAGER	DATE
CHIEF ENGINEER	DATE
ASSISTANT DIRECTOR	DATE

CONSULTANTS:  
ARCHITECT:  
**English + Associates**  
Architects, Inc.  
1101 GLENDALE  
HOUSTON, TEXAS 77002  
77002 • 77002  
WWW.ARCHENGLISH.COM

MEP ENGINEER:  
**Infrastructure Associates**  
INFRASTRUCTURE ASSOCIATES, INC.  
10000 WESTHEAST AVENUE, SUITE 200  
HOUSTON, TEXAS 77067  
77067 • 77067  
WWW.INFRASTRUCTURE.COM

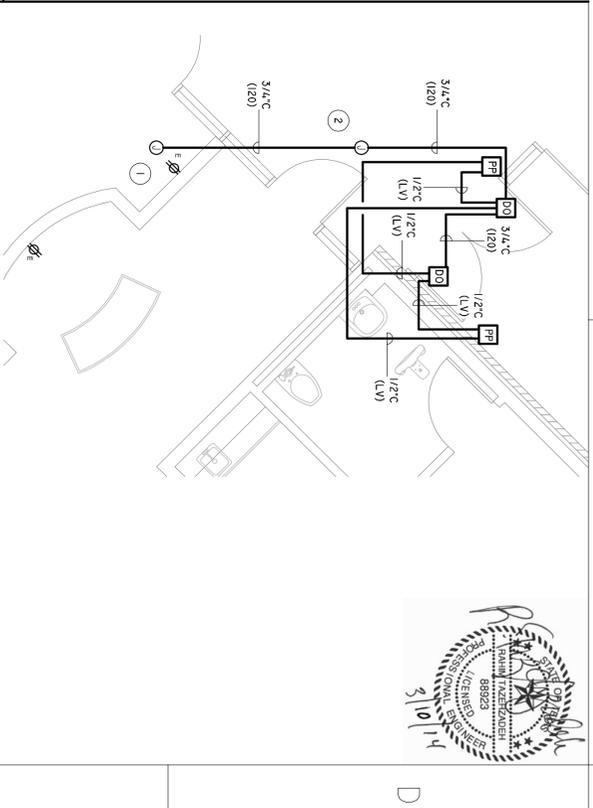
ACCESSIBILITY CONSULTANT:  
**ACCESSIBLE DESIGN SOLUTIONS**  
505 N. SAN HOUSTON PARKWAY E, SUITE 280  
HOUSTON, TEXAS 77060

E+A PROJECT NO. : 14001.02  
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CHECKED BY :  
COPY RIGHT :

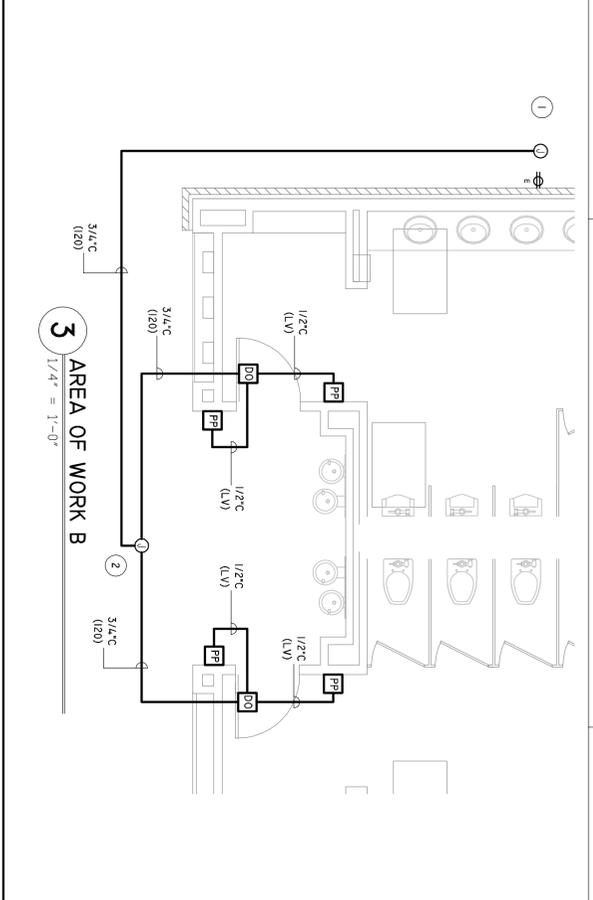
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**ELECTRICAL FLOOR  
PLAN - NORTH-EAST MSC**

SHEET NO. OF SHEETS  
**E2-04**

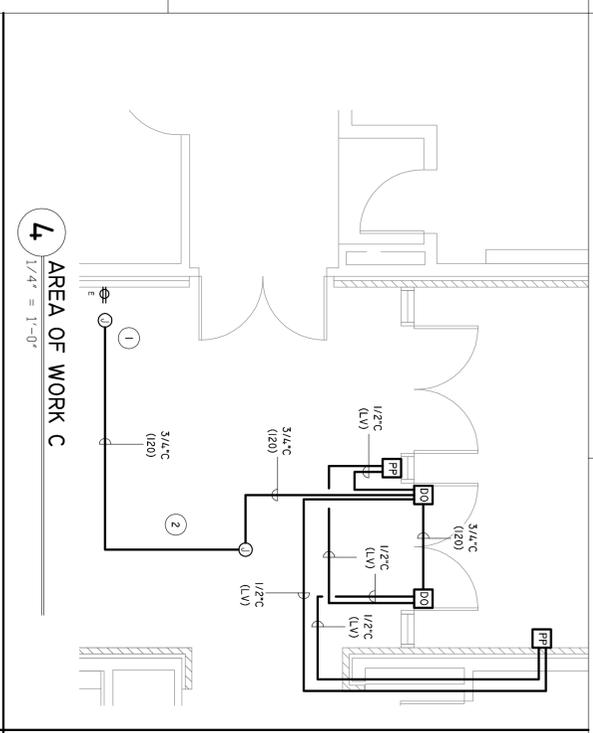
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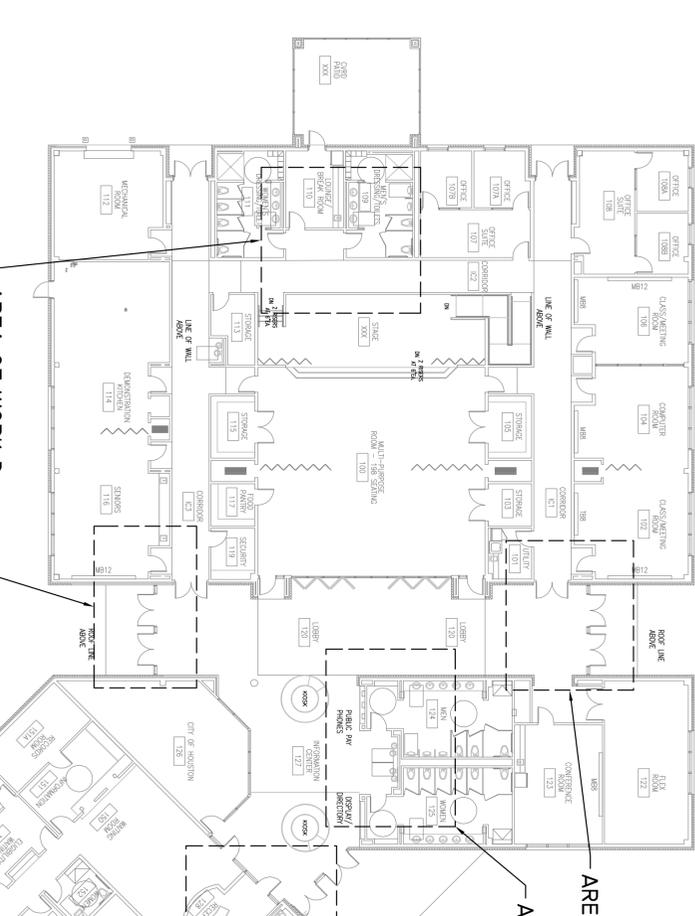
**2 AREA OF WORK A**  
1/4" = 1'-0"



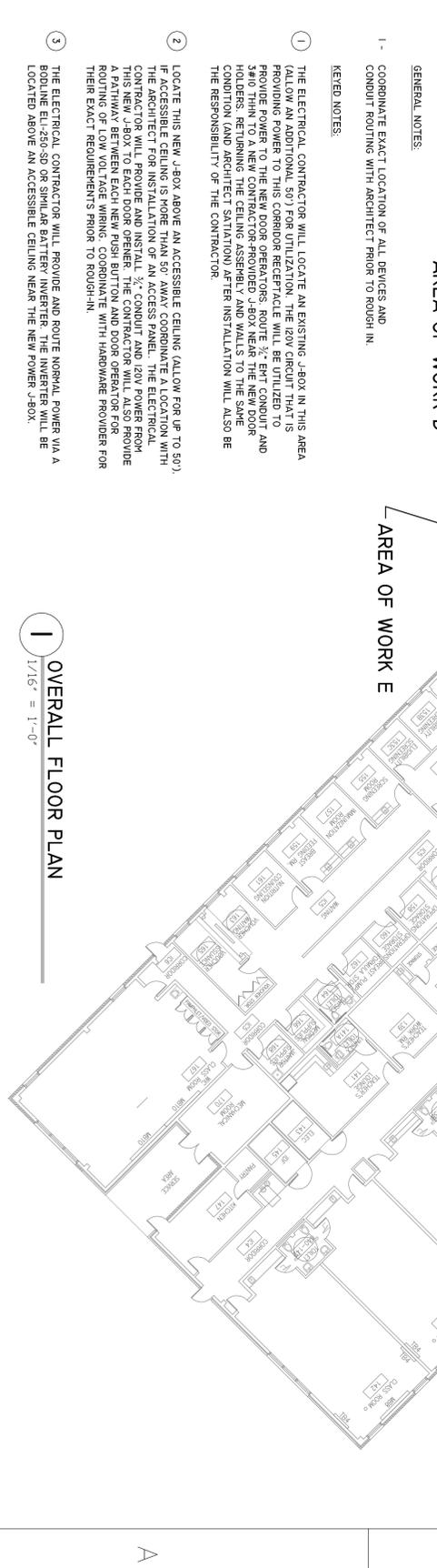
**3 AREA OF WORK B**  
1/4" = 1'-0"



**4 AREA OF WORK C**  
1/4" = 1'-0"



**5 AREA OF WORK D**  
1/4" = 1'-0"



**1 OVERALL FLOOR PLAN**  
1/16" = 1'-0"

**GENERAL NOTES:**

1 - COORDINATE EXACT LOCATION OF ALL DEVICES AND CONDUIT ROUTING WITH ARCHITECT PRIOR TO ROUGH IN.

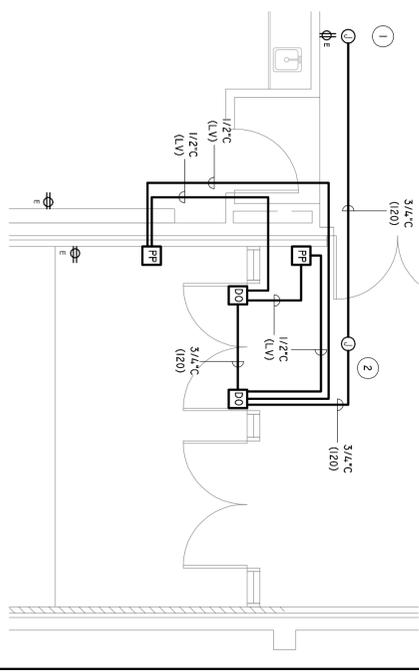
**KEYED NOTES:**

1 THE ELECTRICAL CONTRACTOR WILL LOCATE AN EXISTING J-BOX IN THIS AREA (ALLOW AN ADDITIONAL 90° FOR UTILIZATION. THE 120V CIRCUIT THAT IS PROVIDING POWER TO THIS CORRIDOR RECEPTACLE WILL BE UTILIZED TO PROVIDE POWER TO THE NEW DOOR OPERATORS. ROUTE 3/4" EMT CONDUIT AND HOLDERS, RETURNING THE CEILING ASSEMBLY, J-BOX NEAR THE NEW DOOR CONDITION (AND ARCHITECT SITUATION) AFTER INSTALLATION WILL ALSO BE THE RESPONSIBILITY OF THE CONTRACTOR.

2 LOCATE THIS NEW J-BOX ABOVE AN ACCESSIBLE CEILING (ALLOW FOR UP TO 50"). IF ACCESSIBLE CEILING IS MORE THAN 50" AWAY COORDINATE A LOCATION WITH THE ARCHITECT FOR INSTALLATION OF AN ACCESS PANEL. THE ELECTRICAL CONTRACTOR WILL PROVIDE AND INSTALL 3/4" CONDUIT AND 120V POWER FROM EXISTING RECEPTACLE TO NEW DOOR OPERATORS. PROVIDE A PATHWAY BETWEEN EACH NEW PUSH BUTTON AND DOOR OPERATOR FOR ROUTING OF LOW VOLTAGE WIRING. COORDINATE WITH HARDWARE PROVIDER FOR THEIR EXACT REQUIREMENTS PRIOR TO ROUGH-IN.

3 THE ELECTRICAL CONTRACTOR WILL PROVIDE AND ROUTE NORMAL POWER VIA A ROLINE EUL-250-SD OR SIMILAR BATTERY INVERTER. THE INVERTER WILL BE LOCATED ABOVE AN ACCESSIBLE CEILING NEAR THE NEW POWER J-BOX.

**6 AREA OF WORK E**  
1/4" = 1'-0"



1	2	3	4	5
A	B	C	D	

ISSUE LOG	
NO.	DESCRIPTION
1	1-15-14 SCHEMATIC DESIGN
2	1-30-14 DESIGN DEVELOPMENT
3	3-10-14 CONSTRUCTION DOCUMENTS



**CITY OF HOUSTON**  
GENERAL SERVICES  
DEPARTMENT



900 BAGBY, HOUSTON, TX 77002

PROJECT NAME :  
AUTOMATIC ENTRY  
DOOR OPERATORS - CDBG  
NORTHSIDE HEALTH CENTER  
8504 SCHULLER  
HOUSTON, TEXAS 77093

WBS No. H-000102-0003-4

APPROVALS :

PROJECT MANAGER	DATE
CHIEF ENGINEER	DATE
ASSISTANT DIRECTOR	DATE

CONSULTANTS:  
ARCHITECT:  
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Architects, Inc.  
5515 GLENDALE  
HOUSTON, TEXAS 77057  
77002-7333  
1988-2014

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77057-4208  
713-865-9331 FAX  
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ACCESSIBILITY CONSULTANT:  
**ACCESSIBLE DESIGN SOLUTIONS**  
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HOUSTON, TEXAS 77060

E-A PROJECT NO. : 14001.02  
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SHEET TITLE :  
ELECTRICAL FLOOR  
PLAN - NORTHSIDE HC

**E2-05**

SHEET NO. OF SHEETS  
CITY DWG NO. :



ISSUE LOG	
NO.	DESCRIPTION
1	1-15-14 SCHEMATIC DESIGN
2	1-30-14 DESIGN DEVELOPMENT
3	3-10-14 CONSTRUCTION DOCUMENTS



**CITY OF HOUSTON**  
GENERAL SERVICES  
DEPARTMENT



900 BAGBY, HOUSTON, TX 77002

PROJECT NAME :  
AUTOMATIC ENTRY  
DOOR OPERATORS – CDBG  
SOUTH-WEST MULTI-SERVICE CENTER  
6400 HIGH STAR  
HOUSTON, TEXAS 77074

WBS No. H-000102-0003-4

APPROVALS :

PROJECT MANAGER	DATE
CHIEF ENGINEER	DATE
ASSISTANT DIRECTOR	DATE

CONSULTANTS:  
ARCHITECT:  
**English + Associates**  
Architects, Inc.  
11000 GREGG AVENUE  
SUITE 200  
HOUSTON, TEXAS 77036  
77062-7388  
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MEP ENGINEER:  
**Infrastructure Associates**  
INFRASTRUCTURE ASSOCIATES, INC.  
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HOUSTON, TEXAS 77036  
77060-2200  
www.infrastructure.com

ACCESSIBILITY DESIGN SOLUTIONS  
595 N. SAN HOUSTON PARKWAY E. SUITE 280  
HOUSTON, TEXAS 77060

E+A PROJECT NO. : 14001.02  
ACAD DWG. FILE :  
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COPY RIGHT :

SHEET TITLE :  
ELECTRICAL FLOOR  
PLAN - SOUTHWEST MSC

**E2-06**

SHEET NO. OF SHEETS  
CITY DWG NO. :

