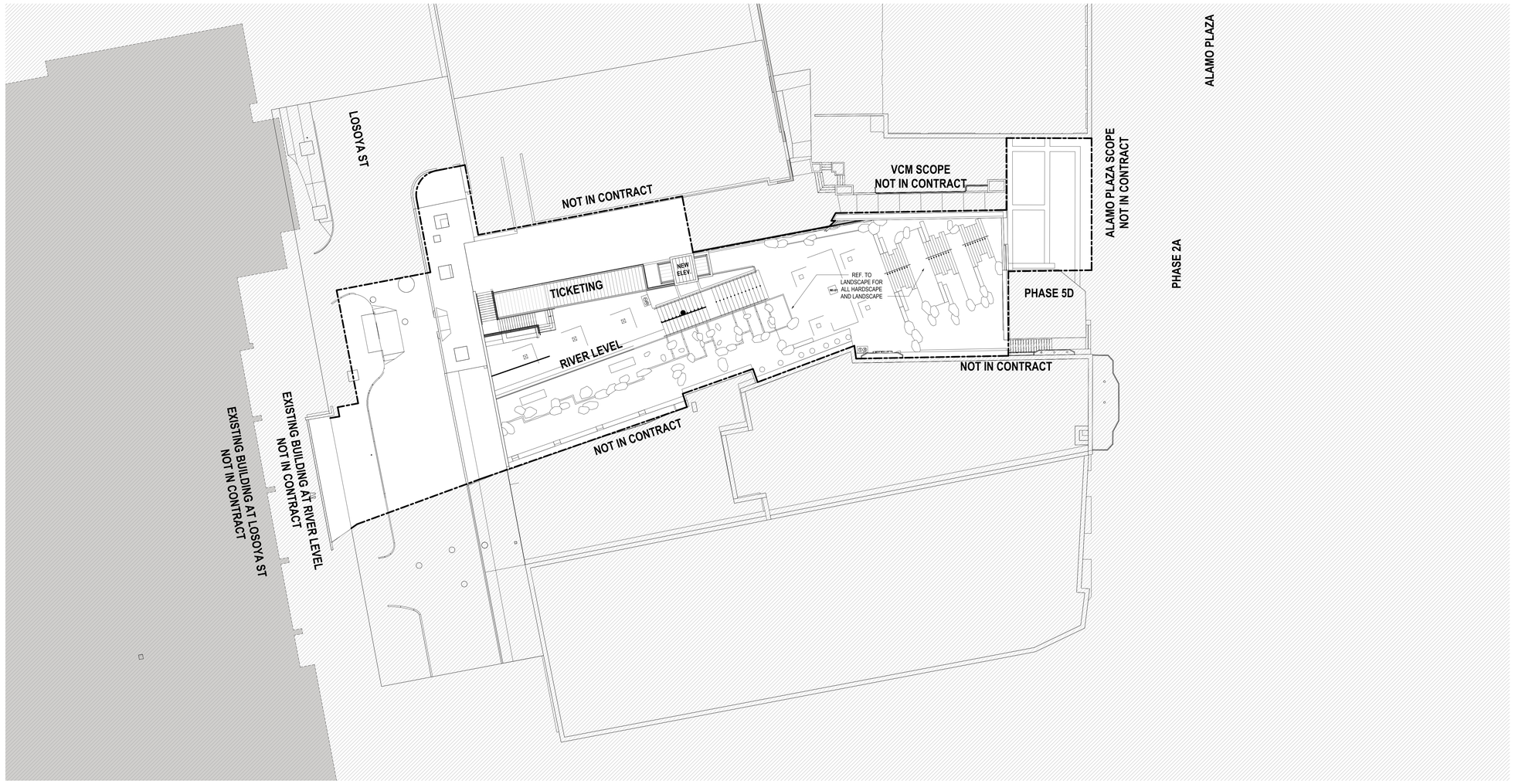

01 AREA 5 - LOWER PASEO SITE PLAN

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

REF: 02 / 5B - D2.000

ALAMO TRUST INC.
321 Alamo Plaza
124 Losoya Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

ARUP
MEP, Lighting, Security, and Acoustics Consultant
ARUP
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.782.2787

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

OJB
Landscape Architect
OJB
711 Louisiana Street,
Suite 111
Houston, TX 77002
Tel 713.529.9919

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

DATUM ENGINEERS
Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

MGAC
Development Manager
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

Seal / Signature

Date	Description
05/19/2023	50% SCHEMATIC DESIGN
08/10/2023	100% SCHEMATIC DESIGN
11/02/2023	100% DESIGN DEVELOPMENT
01/05/2024	AREA 5 DEMOLITION MOBILIZATION
01/24/2024	AREA 5 DEMOLITION MOBILIZATION REV. 1
06/13/2024	50% CONSTRUCTION DOCUMENTS

Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
ARCHITECTURAL SITE PLAN

Scale
1/16" = 1'-0"

A0.100

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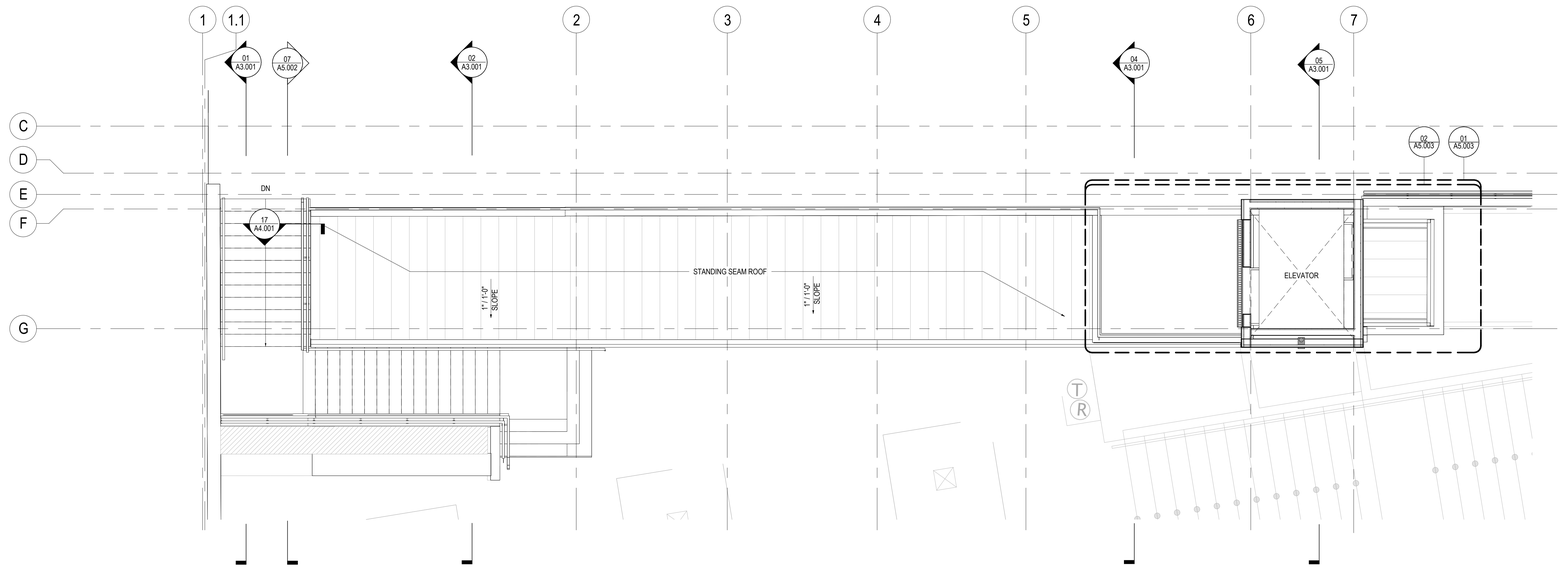
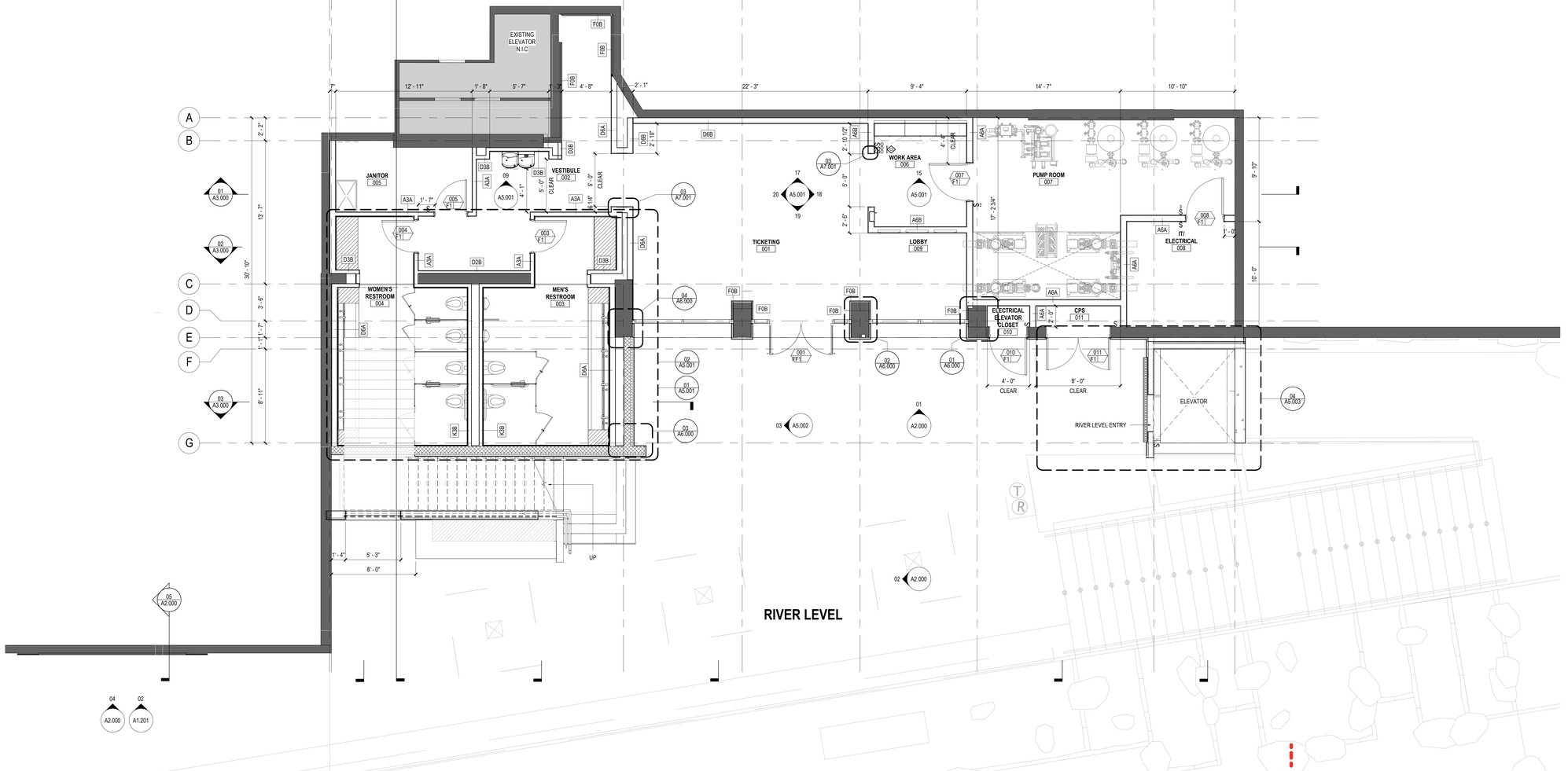


01 ROOF PLAN - STREET LEVEL

SCALE: 1/4" = 1'-0"

REF: 02 / 5B - D2.000



02 CONSTRUCTION PLAN - RIVER LEVEL

SCALE: 1/4" = 1'-0"

REF: 01 / 5B - D2.000

GENERAL NOTES

A. RE: G0 SHEET SERIES FOR LEGENDS, SYMBOLS AND ABBREVIATIONS.
B. RE: G1 SHEET SERIES FOR CODE ANALYSIS RELATED TO PROJECT.
C. ALL PARTITIONS TO BE TYPE "A6A", UNO. ALL FURRED-OUT PARTITIONS TO BE TYPE "XXX", UNO RE: A0.300 SERIES FOR PARTITION TYPES AND DETAILS.
D. DOOR NUMBERS ARE THE SAME AS THE ROOM INTO WHICH THEY SWING. MULTIPLE DOORS INTO A SINGLE ROOM HAVE AN ALPHABETICAL DESIGNATION. RE: A0.400 FOR DOOR SCHEDULE AND TYPES.
E. ALL EXISTING DOORS, FRAMES AND HARDWARE TO REMAIN ARE DESIGNATED WITH AN "EX" SYMBOL.
F. ALL PARTITIONS AT THE WINDOW WALL ARE CENTERED ON EITHER COLUMNS OR WINDOW MULLIONS UNO.
G. COORDINATE AND PROVIDE BLOCKING FOR MILLWORK AND ITEMS ATTACHED OR MOUNTED TO PARTITIONS OR CEILINGS.
H. PARTITIONS ARE DIMENSIONED FROM FINISH FACE TO FINISH FACE, UNO. MAINTAIN DIMENSIONS MARKED "CLEAR". ALLOW FOR THICKNESSES AND MOUNTING OF FINISHES.
I. LARGE FORMAT TILES TO RECEIVE MFR. SPECIFIED GROUT

ALAMO TRUST INC.
321 Alamo Plaza
124 Losoya Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
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Tel 210.222.8059

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The Texas General Land Office
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Houston, TX 77042
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Pape-Dawson Engineers
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Landscape Architect
OJB
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Houston, TX 77002
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DataCom Design Group, LLC.
7600 Burnet Rd.#350,
Austin, TX 78757
Tel 512.478.6001

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Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

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Pape-Dawson Engineers
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MGAC
Development Manager
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

Seal / Signature

Date	Description
08/10/2023	100% SCHEMATIC DESIGN
11/02/2023	100% DESIGN DEVELOPMENT
01/05/2024	AREA 5 DEMOLITION MOBILIZATION
01/24/2024	AREA 5 DEMOLITION MOBILIZATION REV. 1
06/13/2024	50% CONSTRUCTION DOCUMENTS

Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
CONSTRUCTION PLAN - LOWER PASEO

Scale
1/4" = 1'-0"

A1.101

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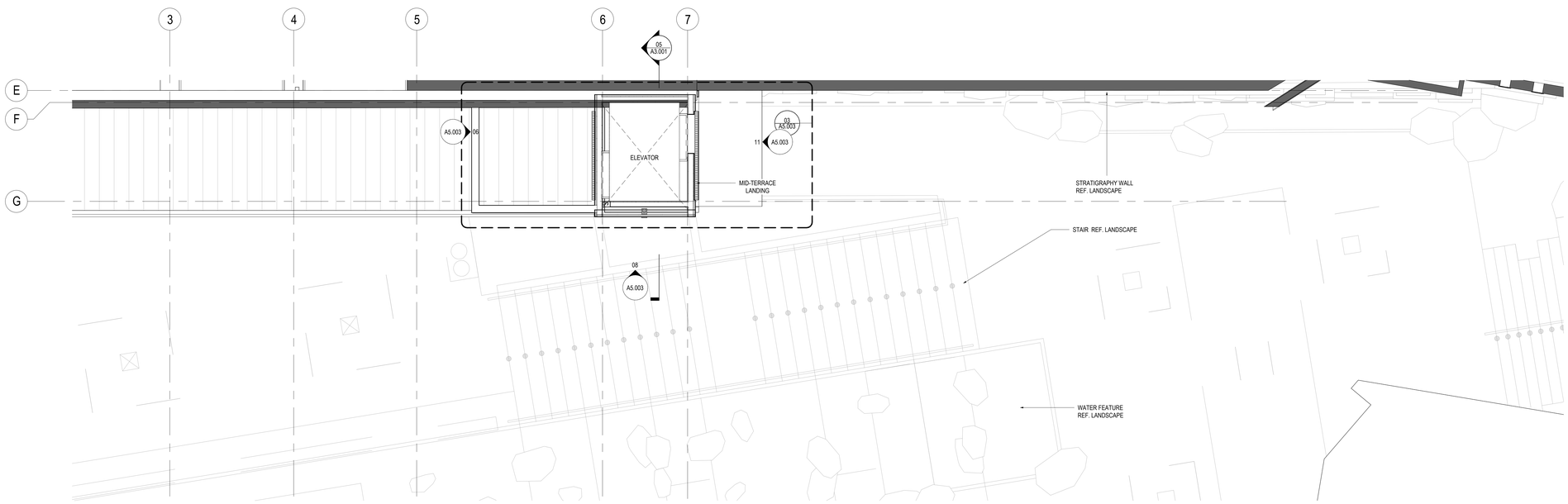
01 CONSTRUCTION PLAN - UNDER BRIDGE

SCALE: 1/4" = 1'-0"

REF: 01 / SB - D2.000



02 CONSTRUCTION PLAN - MID TERRACE

SCALE: 1/4" = 1'-0"

REF: 03 / A4.000

GENERAL NOTES

A. RE: G0 SHEET SERIES FOR LEGENDS, SYMBOLS AND ABBREVIATIONS.
B. RE: G1 SHEET SERIES FOR CODE ANALYSIS RELATED TO PROJECT.
C. ALL PARTITIONS TO BE TYPE "A6A", UNO. ALL FURRED-OUT PARTITIONS TO BE TYPE "XXX", UNO RE: A0.300 SERIES FOR PARTITION TYPES AND DETAILS.
D. DOOR NUMBERS ARE THE SAME AS THE ROOM INTO WHICH THEY SWING. MULTIPLE DOORS INTO A SINGLE ROOM HAVE AN ALPHABETICAL DESIGNATION. RE: A0.400 FOR DOOR SCHEDULE AND TYPES.
E. ALL EXISTING DOORS, FRAMES AND HARDWARE TO REMAIN ARE DESIGNATED WITH AN "EX" SYMBOL.
F. ALL PARTITIONS AT THE WINDOW WALL ARE CENTERED ON EITHER COLUMNS OR WINDOW MULLIONS UNO.
G. COORDINATE AND PROVIDE BLOCKING FOR MILLWORK AND ITEMS ATTACHED OR MOUNTED TO PARTITIONS OR CEILINGS.
H. PARTITIONS ARE DIMENSIONED FROM FINISH FACE TO FINISH FACE, UNO. MAINTAIN DIMENSIONS MARKED "CLEAR". ALLOW FOR THICKNESSES AND MOUNTING OF FINISHES.
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321 Alamo Plaza
124 Losoya Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
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Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
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Fax 512.463.5001

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San Antonio, TX 78205
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MEP, Lighting, Security, and Acoustics Consultant
ARUP
10370 Richmond Ave., Ste 475
Houston, TX 77042
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Houston, TX 77002
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Austin, TX 78757
Tel 512.478.6001

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Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

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Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

MGAC
Development Manager
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

Seal / Signature

Date	Description
08/10/2023	100% SCHEMATIC DESIGN
11/02/2023	100% DESIGN DEVELOPMENT
01/05/2024	AREA 5 DEMOLITION MOBILIZATION
01/24/2024	AREA 5 DEMOLITION MOBILIZATION REV. 1
06/13/2024	50% CONSTRUCTION DOCUMENTS

Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
CONSTRUCTION PLAN - UNDER BRIDGE / MID TERRACE

Scale
1/4" = 1'-0"

A1.102

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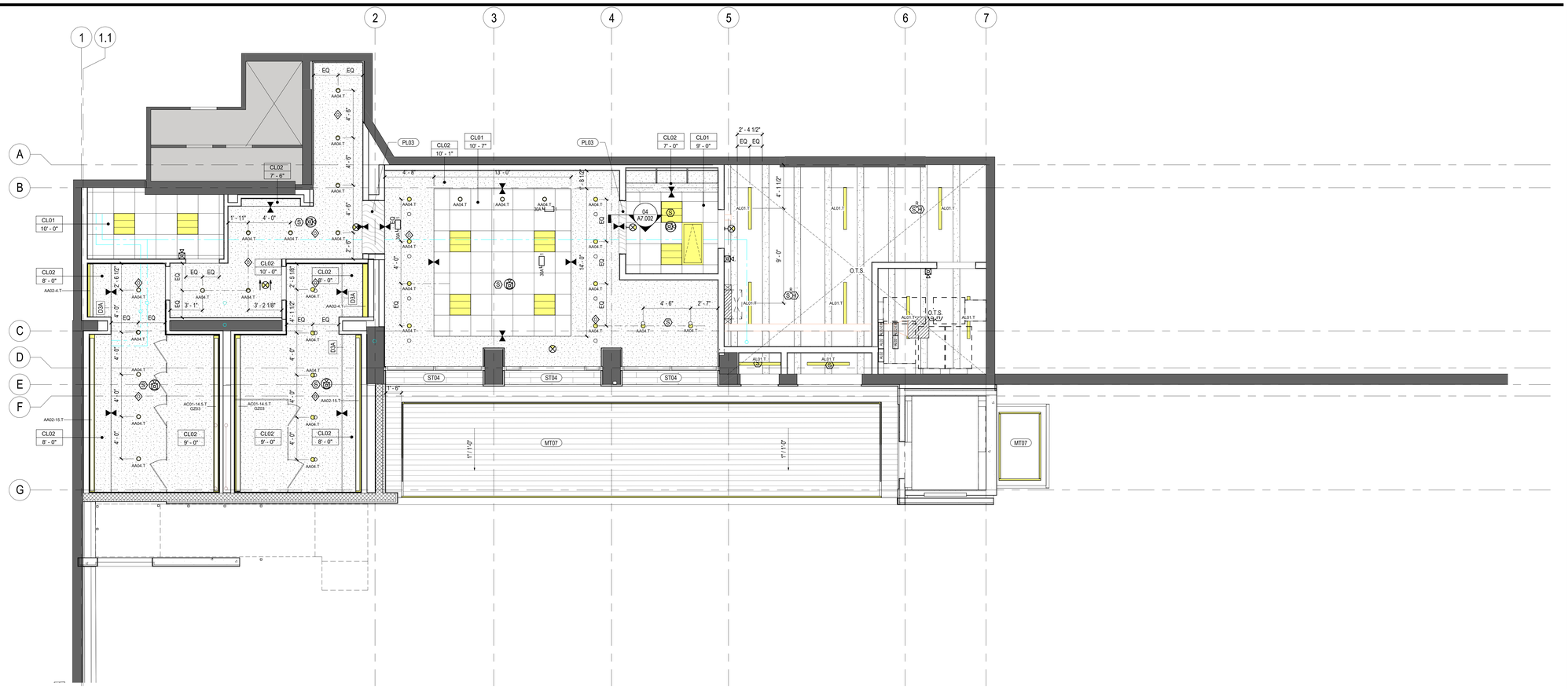
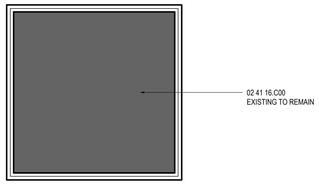
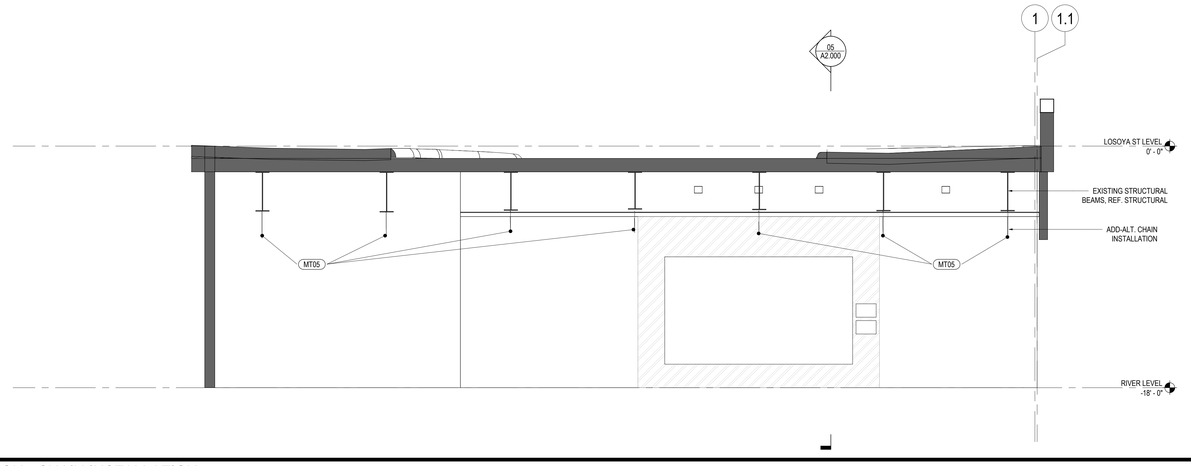

1
1.1
2
3
4
5
6
7
A
B
C
D
E
F
G
CL01
10' - 0"
CL02
8' - 0"
CL02
7' - 6"
CL02
10' - 0"
CL02
9' - 0"
CL01
10' - 7"
CL02
10' - 1"
PL03
CL02
7' - 0"
CL01
9' - 0"
ST04
MT07
AA04.T
AA02-4.T
AA02-15.T
AC01-14.5.T
G203
AL01.T
AL01.8
AL01.1
DSA
O.T.S
04
A7.002
4' - 8"
13' - 0"
8 1/2"
14' - 0"
2' - 4 1/2"
4' - 1 1/2"
9' - 0"
4' - 6"
2' - 7"
1' - 6"
11' 1'-0"
1' - 11"
4' - 0"
3' - 1"
3' - 2 1/8"
2' - 6 1/2"
2' - 5 1/8"
4' - 1 1/2"
4' - 0"
2' - 0"
EQ
EQ EQ
AL01.1
AL01.T
AL01.8
AL01.T
AL01.T
AL01.T

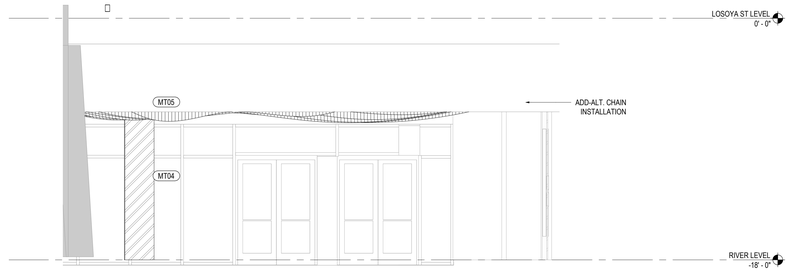


04 DETAIL - COLUMN WRAP
SCALE: 1 1/2" = 1'-0"
REF: 01 / A1.102

01 REFLECTED CEILING PLAN - CHAIN INSTALLATION & COLUMN WRAP
SCALE: 1/4" = 1'-0"
REF: /



02 SECTION - CHAIN INSTALLATION
SCALE: 1/4" = 1'-0"
REF: 02 / A1.101



03 ELEVATION - CHAIN IINSTALLATION & COLUMN WRAP
SCALE: 1/4" = 1'-0"
REF: 01 / A1.102

SHEET NOTES

POTENTIAL ADD-ALT TO BE VERIFIED BY CLIENT.

GENERAL NOTES

A. RE: G0 SHEET SERIES FOR LEGENDS, SYMBOLS AND ABBREVIATIONS.
B. RE: G4 SHEET SERIES FOR TYPICAL DEVICE MOUNTING DIAGRAMS.
C. PROVIDE "CL01" MOUNTED AT 9'-0" FOR ALL ACOUSTICAL CEILINGS, UNO
D. CENTER ALL EXIT SIGNS, SMOKE DETECTORS, ETC. IN THE CENTERLINE OF CORRIDORS AND CENTERLINE OF LIGHT FIXTURES, UNO, OR IF VIOLATION OF APPLICABLE CODES WOULD OCCUR.
E. INSTALL REGISTERS AND LIGHT FIXTURES WITHIN GRID LINES. INSTALL SPEAKERS, LIGHT FIXTURES, AND OTHER CEILING ELEMENTS IN THE GEOMETRIC CENTER OF ACOUSTICAL UNITS OR CELING PANELS, UNO
F. IN ACOUSTICAL CEILINGS, LOCATE ALL SPRINKLER HEADS IN THE GEOMETRIC CENTER OF PANELS, UNO
G. IF IT IS NOT POSSIBLE TO LOCATE SPRINKLER HEADS AS REQUIRED ABOVE FOR ANY REASON, INCLUDING, WITHOUT LIMITATION, CODE REQUIREMENTS, DO NOT PROCEED WITH WORK UNTIL SUCH CONDITIONS HAVE BEEN REVIEWED WITH ARCHITECT.
H. PROVIDE SPRINKLER HEAD LOCATIONS FOR ARCHITECT'S REVIEW FOR AESTHETIC PURPOSES PRIOR TO ANY INSTALLATION, AND PRIOR TO SUBMITTING DRAWINGS FOR PERMIT. CONTRACTOR WILL, OTHERWISE, BE REQUIRED TO RELOCATE HEADS AT ITS SOLE EXPENSE.
I. RE: MEP DRAWINGS FOR DESIGN OF MECHANICAL AND ELECTRICAL SYSTEMS. ARCHITECTURAL PLANS GOVERN FOR LOCATION OF ITEMS INSTALLED IN CEILINGS. NOTIFY ARCHITECT IF CONFLICTS OCCUR.
J. RE: ELECTRICAL DRAWINGS FOR FIXTURE SCHEDULE. EXIT LIGHTS AND OTHER LIFE SAFETY DEVICES.
K. ARRANGE CONCEALED ITEMS TO PROVIDE ADEQUATE CLEARANCES FOR CEILING AND ITS DEVICES.
L. VERIFY ACCESS PANEL LOCATIONS WITH ARCHITECT PRIOR TO LAYOUT OF WORK REQUIRING ACCESS.
M. PLUMB ALL STEMS, AIRCRAFT CABLES, AND APPURTENANCES USED TO SUPPORT SUSPENDED LIGHT FIXTURES, UNO
N. REMOVE ALL PAINT FROM EXPOSED DUCTWORK, CONDUIT AND PIPING. REMOVE ALL TAGS AND LABELS NOT REQUIRED BY CODE.
O. FINISH HVAC DIFFUSERS, SHADE POCKETS, AND SPEAKER GRILLES TO MATCH ADJACENT FINISH, UNO
P. PROVIDE CONCEALED SPRINKLER HEADS WITH CAPS WHICH ARE FACTORY-PAINTED TO MATCH THE CEILING IN ALL DRYWALL CEILINGS. LOCATE ALL HEADS TO ALIGN WITH LIGHT FIXTURES, UNO

MATERIAL LEGEND

ST04 - TAKTL PANEL
MT04 - METAL PANEL
WEBNET
MT05 - CHAINS

LEGEND

REFLECTED CEILING PLAN

1i / 1'-0" — CEILING TYPE WITH HEIGHT
CEILING HEIGHT CHANGE
24"X24" ACOUSTIC CEILING TILE CLDX
PAINTED GYPSUM CEILING CLDX
WOOD SLAT CEILING CLDX
EXIT SIGN
RECESSED LIGHT
PENDANT DOWN LIGHT
RECESSED LINEAR LIGHT
UNDER COUNTER LIGHT

ALAMO TRUST INC.
321 Alamo Plaza
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San Antonio, TX 78205

Gensler
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MGAC
Development Manager
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730 11th St NW
Washington, DC 20001
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Seal / Signature

Date	Description
11/02/2023	100% DESIGN DEVELOPMENT
01/05/2024	AREA 5 DEMOLITION MOBILIZATION
01/24/2024	AREA 5 DEMOLITION MOBILIZATION REV. 1
06/13/2024	50% CONSTRUCTION DOCUMENTS

Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
ADD-ALT 01 - CHAIN INSTALLATION & COLUMN WRAP

Scale
As indicated

A1.201

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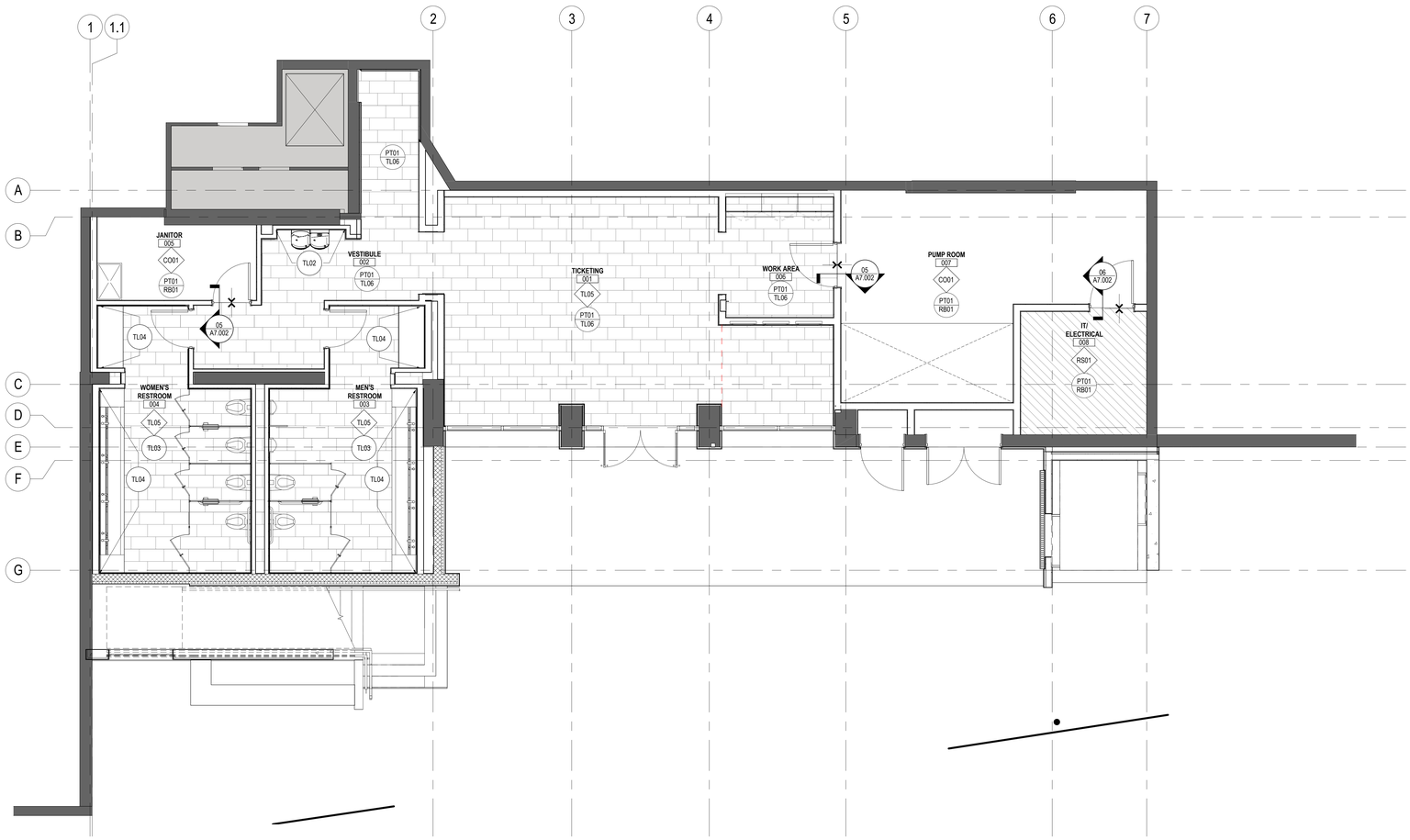

01 RIVER LEVEL - FINISH PLAN

SCALE: 1/4" = 1'-0"

REF: 01 / 5B - D2.000

GENERAL NOTES

A. RE: G0 SHEET SERIES FOR LEGENDS, SYMBOLS AND ABBREVIATIONS.
B. RE: G7.001 FOR FINISH CODES.
C. ENSURE SURFACES TO RECEIVE FINISHES ARE CLEAN, TRUE, AND FREE OF IRREGULARITIES. DO NOT PROCEED WITH WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
D. REPAIR EXISTING SURFACES TO REMAIN AS REQUIRED FOR APPLICATION OF NEW FINISHES.
E. PROVIDE STRAIGHT, FLUSH RESILIENT BASE AT CARPETED AREAS, AND COVED, TOP SET RESILIENT BASE AT RESILIENT OR CONCRETE FLOORING, UNO
F. PROVIDE LEVEL 4 GYP BOARD FINISH ON ALL PARTITIONS, UNO
G. PROVIDE MINIMUM 3-COAT PAINT SYSTEMS FOR EACH SUBSTRATE, UNO
H. PROVIDE PAINT "PT01", EGGSHELL SHEEN ON ALL WALLS, UNO
I. PROVIDE RESILIENT BASE "RB01", UNO
J. PAINT ALL DRYWALL CEILINGS "PT02", FLAT SHEEN, UNO
K. PAINT ALL OPEN PLENUM SPACE, INCLUDING DUCTWORK, CONDUIT AND OTHER EQUIPMENT "PT01" DRYFALL, UNO
L. RE: DOOR SCHEDULE FOR COLOR OF DOORS AND FRAMES.
M. RE: ELEVATIONS FOR MILLWORK FINISHES.
N. RE: A7 SERIES FOR FLOORING TRANSITION DETAILS. COORDINATE TRANSITIONS WITH ARCHITECT.
O. PROVIDE ALL "FEC" IN FACTORY WHITE FINISH, UNO

ALAMO TRUST INC.
321 Alamo Plaza
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San Antonio, TX 78205

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Seal / Signature

Date	Description
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01/05/2024	AREA 5 DEMOLITION MOBILIZATION
01/24/2024	AREA 5 DEMOLITION MOBILIZATION REV. 1
06/13/2024	50% CONSTRUCTION DOCUMENTS

Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
FINISH PLAN

Scale
1/4" = 1'-0"

A1.300

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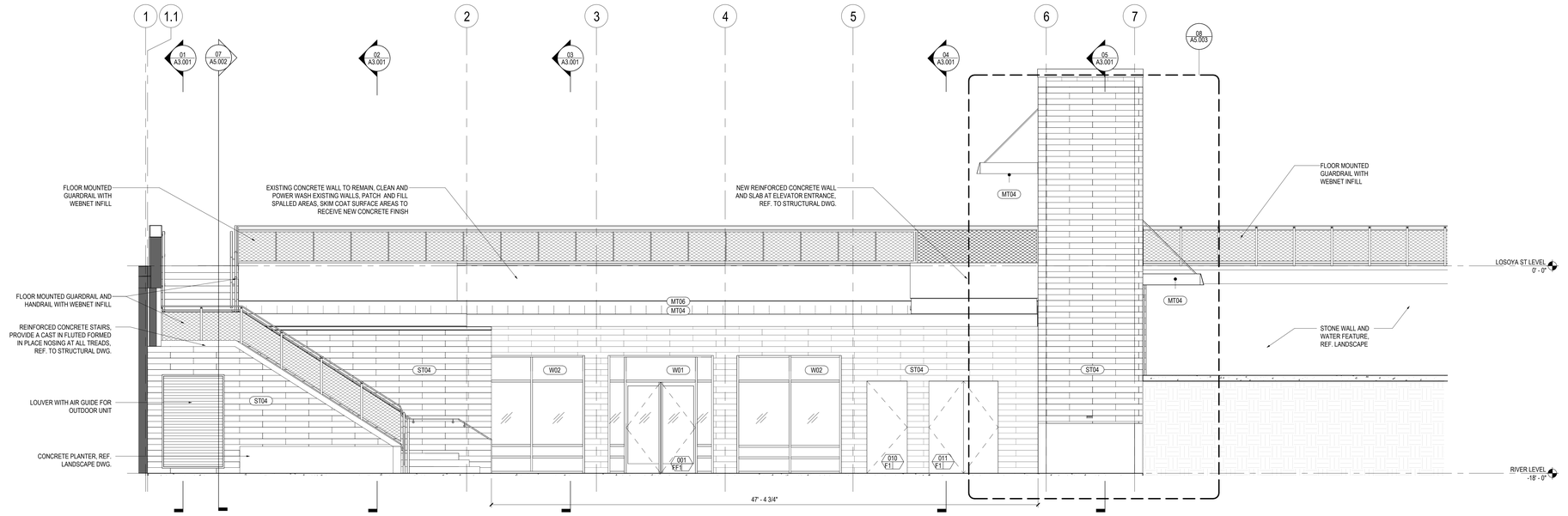
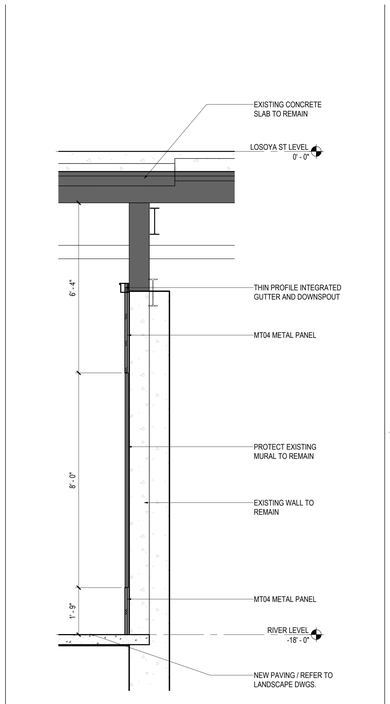


01 ELEVATION - RIVER LEVEL NORTH

SCALE: 1/4" = 1'-0"

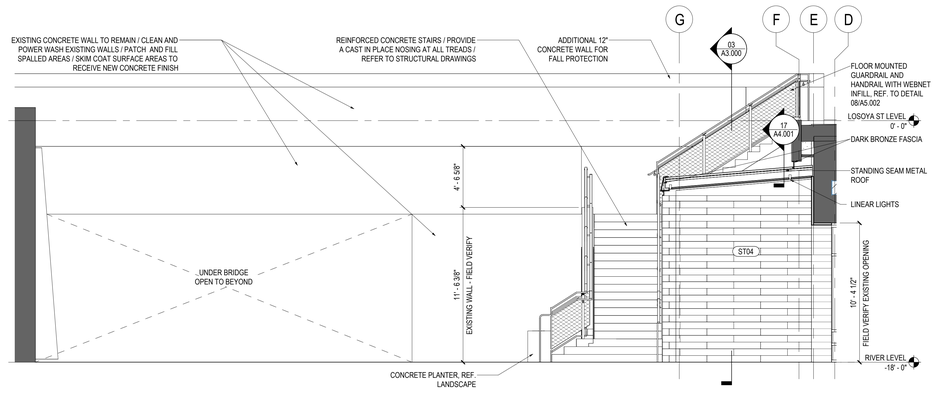
REF: 02 / A1.101



05 WALL SECTION - AT MURAL

SCALE: 1/2" = 1'-0"

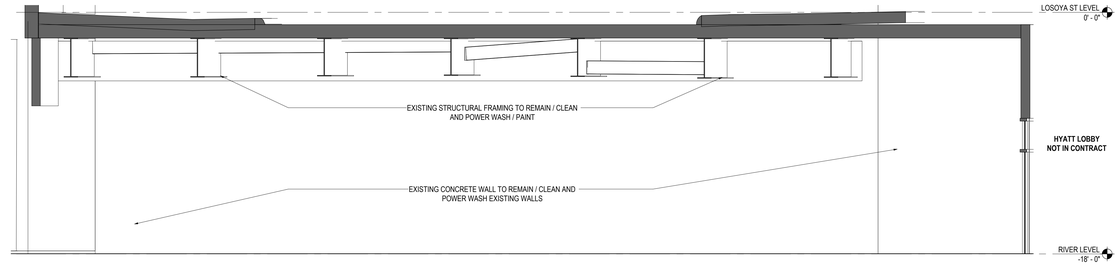
REF: 02 / A1.101



02 ELEVATION - RIVER LEVEL WEST

SCALE: 1/4" = 1'-0"

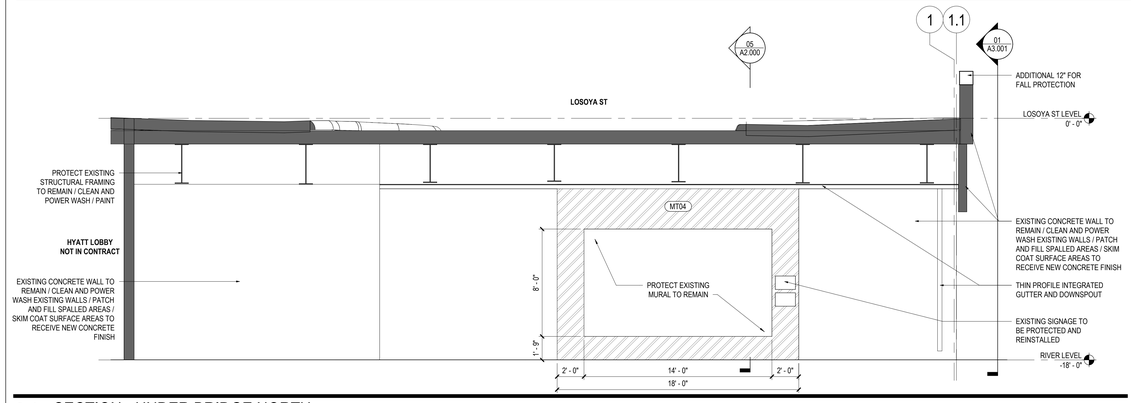
REF: 02 / A1.101



03 SECTION - UNDER BRIDGE SOUTH

SCALE: 1/4" = 1'-0"

REF: 01 / A1.102



04 SECTION - UNDER BRIDGE NORTH

SCALE: 1/4" = 1'-0"

REF: 02 / A1.101

MATERIAL LEGEND

- ST04 - TAKTL PANEL
- MT04 - METAL PANEL
- WEBNET
- MT05 - CHAINS

ALAMO TRUST INC.

321 Alamo Plaza
124 Losoya Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

ARUP
MEP, Lighting, Security, and Acoustics Consultant
ARUP
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.782.2787

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

OJB
Landscape Architect
OJB
711 Louisiana Street,
Suite 111
Houston, TX 77002
Tel 713.529.9919

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

DATUM ENGINEERS
Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

MGAC
Development Manager
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

Seal / Signature

Date	Description
08/10/2023	100% SCHEMATIC DESIGN
11/02/2023	100% DESIGN DEVELOPMENT
01/05/2024	AREA 5 DEMOLITION MOBILIZATION
01/24/2024	AREA 5 DEMOLITION MOBILIZATION REV. 1
06/13/2024	50% CONSTRUCTION DOCUMENTS

Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
BUILDING ELEVATIONS - LOWER PASEO

Scale
As indicated

A2.000

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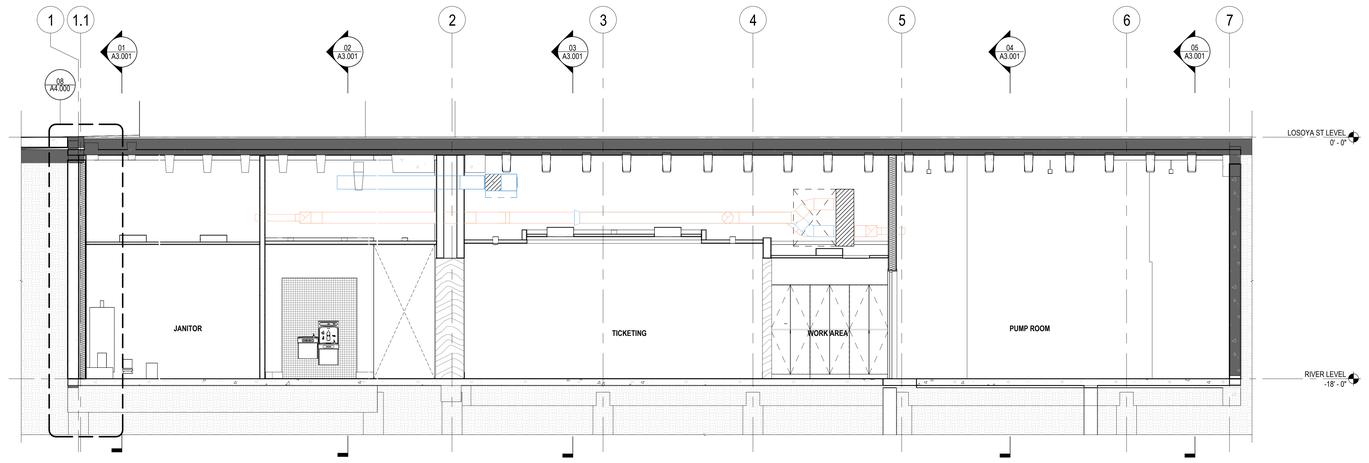
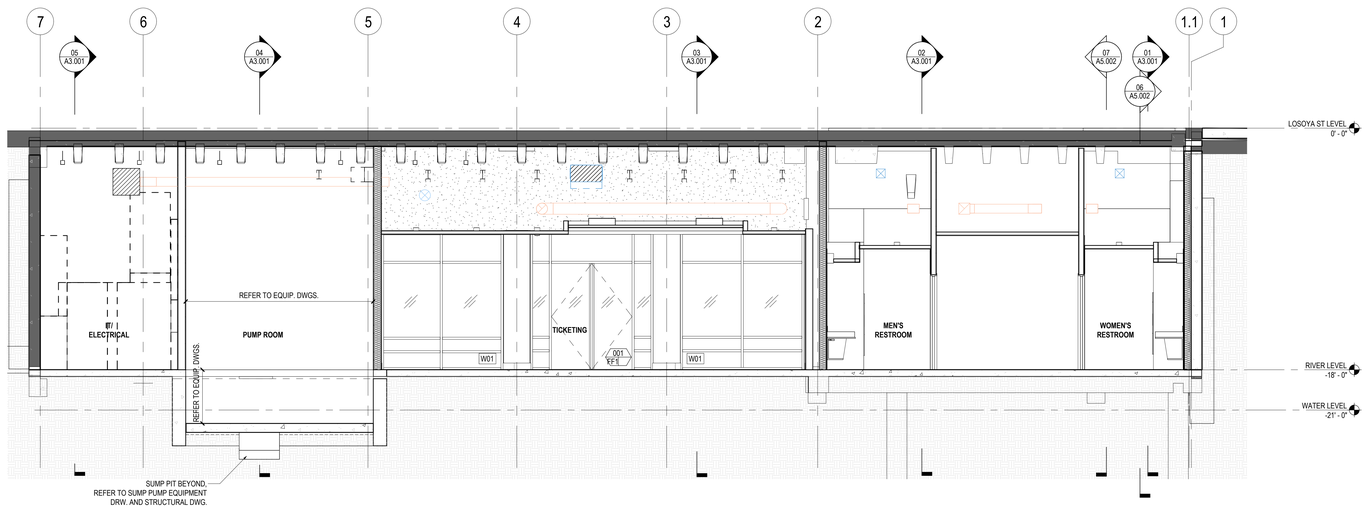


01 BUILDING SECTION - NORTH

SCALE: 1/4" = 1'-0"

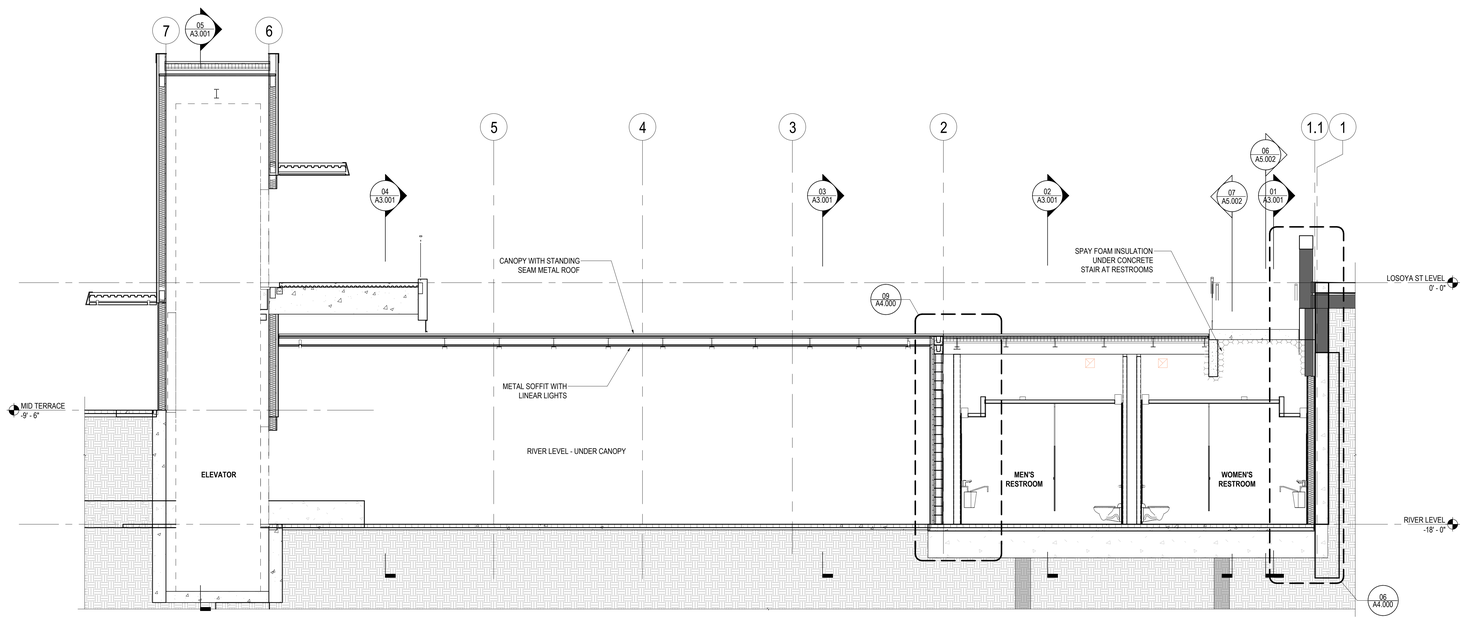
REF: 02 / A1.101



02 BUILDING SECTION - SOUTH

SCALE: 1/4" = 1'-0"

REF: 02 / A1.101



03 BUILDING SECTION - AT EXTERIOR CANOPY

SCALE: 1/4" = 1'-0"

REF: 02 / A1.101

ALAMO TRUST INC.
321 Alamo Plaza
124 Losoya Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

ARUP
MEP, Lighting, Security, and Acoustics Consultant
ARUP
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.782.2787

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

OJB
Landscape Architect
OJB
711 Louisiana Street,
Suite 111
Houston, TX 77002
Tel 713.529.9919

AV/IT/Security
DataCom Design Group, LLC.
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Austin, TX 78757
Tel 512.478.6001

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Tel 210.858.2880
Fax F-2819

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Pape-Dawson Engineers
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San Antonio, TX 78213
Tel 210.375.9000

MGAC
Development Manager
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

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△	Date	Description
	11/02/2023	100% DESIGN DEVELOPMENT
	01/05/2024	AREA 5 DEMOLITION MOBILIZATION
	01/24/2024	AREA 5 DEMOLITION MOBILIZATION REV. 1
	06/13/2024	50% CONSTRUCTION DOCUMENTS

Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
OVERALL BUILDING SECTIONS - LOWER PASEO

Scale
1/4" = 1'-0"

A3.000

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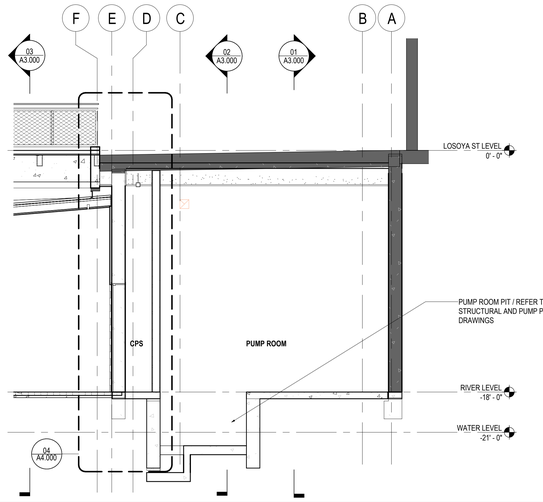
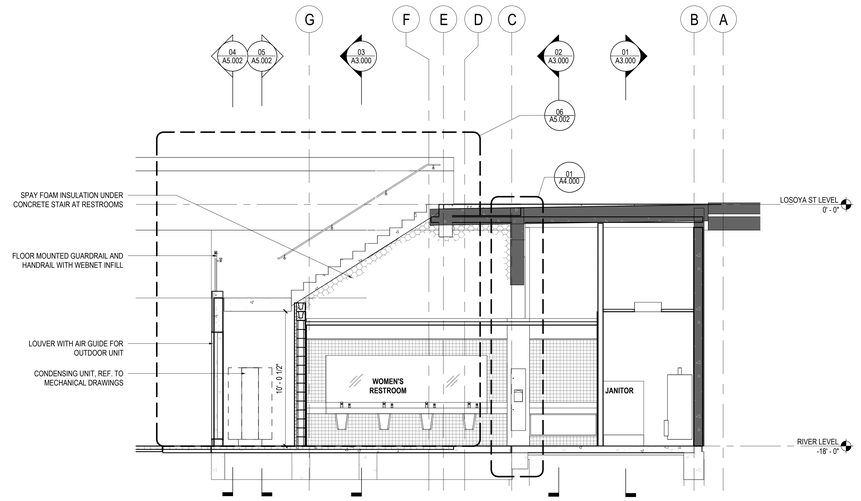


04 BUILDING SECTION - AT PUMP ROOM

SCALE: 1/4" = 1'-0"

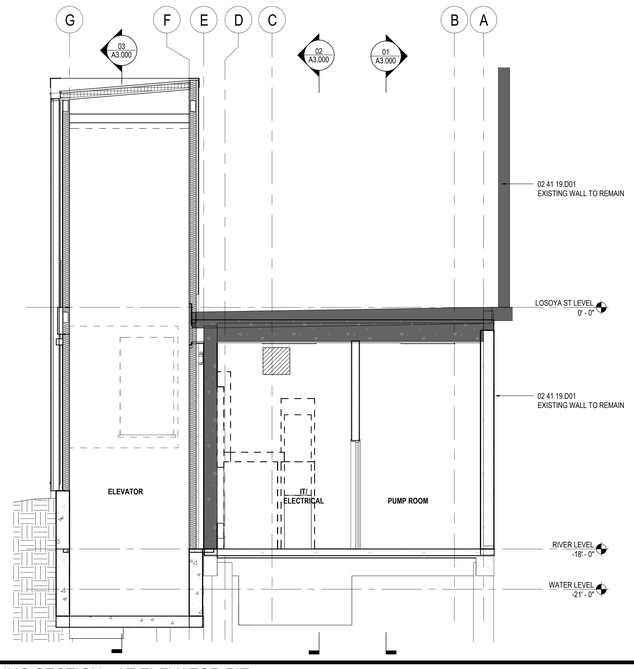
REF: 01 / A1.101



01 BUILDING SECTION - AT RESTROOM

SCALE: 1/4" = 1'-0"

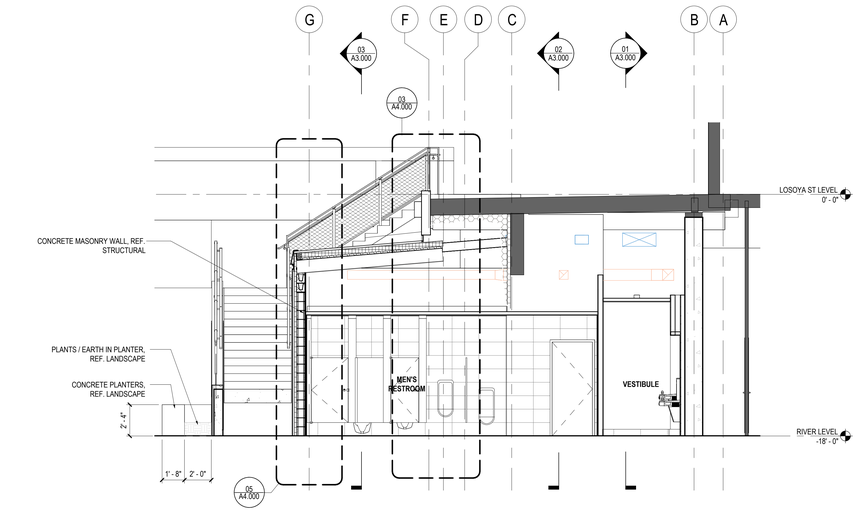
REF: 01 / A1.101



05 BUILDING SECTION - AT ELEVATOR PIT

SCALE: 1/4" = 1'-0"

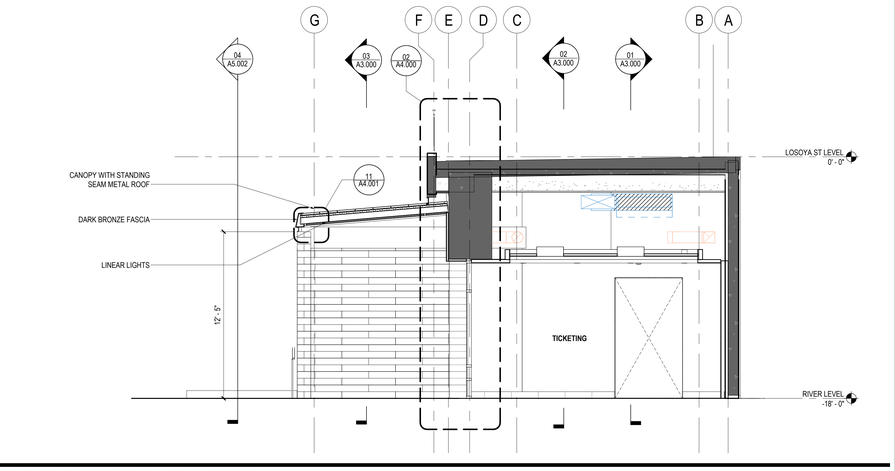
REF: 01 / A1.101



02 BUILDING SECTION - AT EXTERIOR STAIR

SCALE: 1/4" = 1'-0"

REF: 01 / A1.101



03 BUILDING SECTION - AT CANOPY

SCALE: 1/4" = 1'-0"

REF: 02 / A1.101

ALAMO TRUST INC.

321 Alamo Plaza
124 Losoya Street
San Antonio, TX 78205

Gensler

229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States

Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
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Alamo Trust
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ARUP
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.782.2787

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

OJB
Landscape Architect
OJB
711 Louisiana Street,
Suite 111
Houston, TX 77002
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AV/IT/Security
DataCom Design Group, LLC.
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Austin, TX 78757
Tel 512.478.6001

DATUM ENGINEERS
Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
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MGAC
Development Manager
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

Seal / Signature

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11/02/2023	100% DESIGN DEVELOPMENT
01/05/2024	AREA 5 DEMOLITION MOBILIZATION
01/24/2024	AREA 5 DEMOLITION MOBILIZATION REV. 1
06/13/2024	50% CONSTRUCTION DOCUMENTS

Project Name

ALAMO SITE: AREA 5 - LOWER PASEO

Project Number

122.0076.500

Description

OVERALL BUILDING SECTIONS - LOWER PASEO

Scale

1/4" = 1'-0"

A3.001

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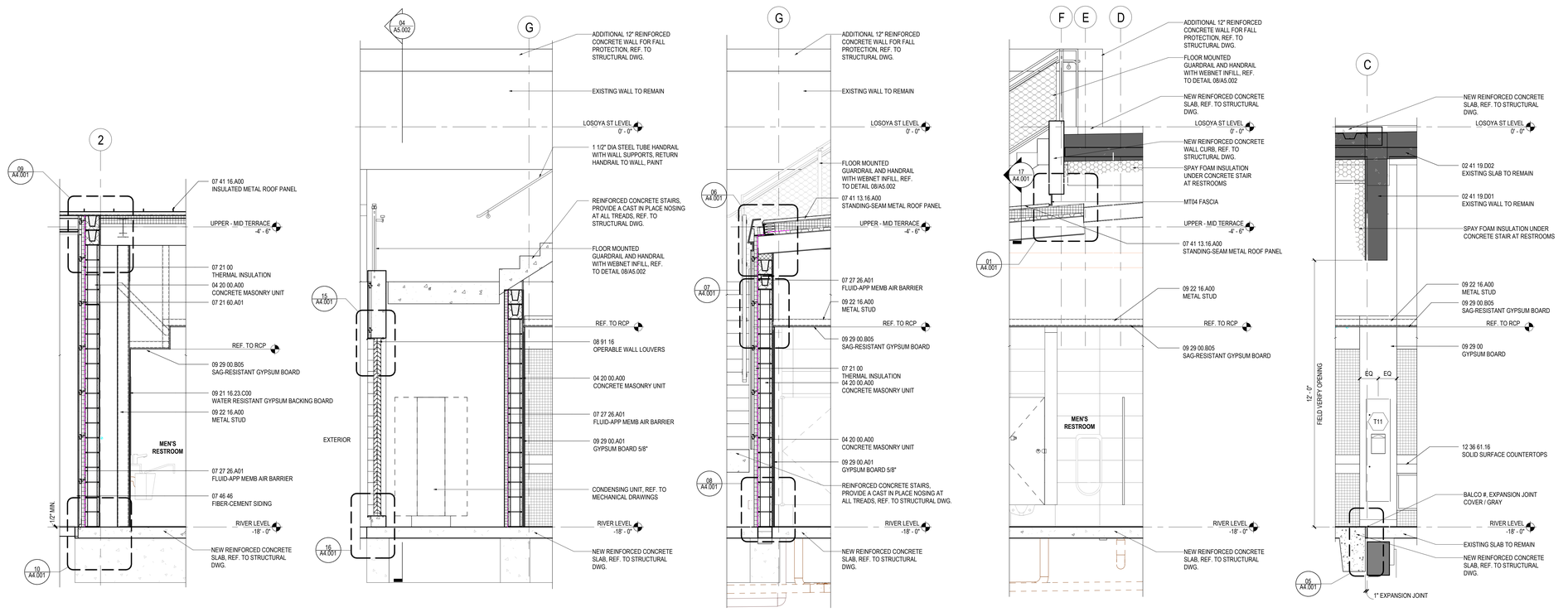


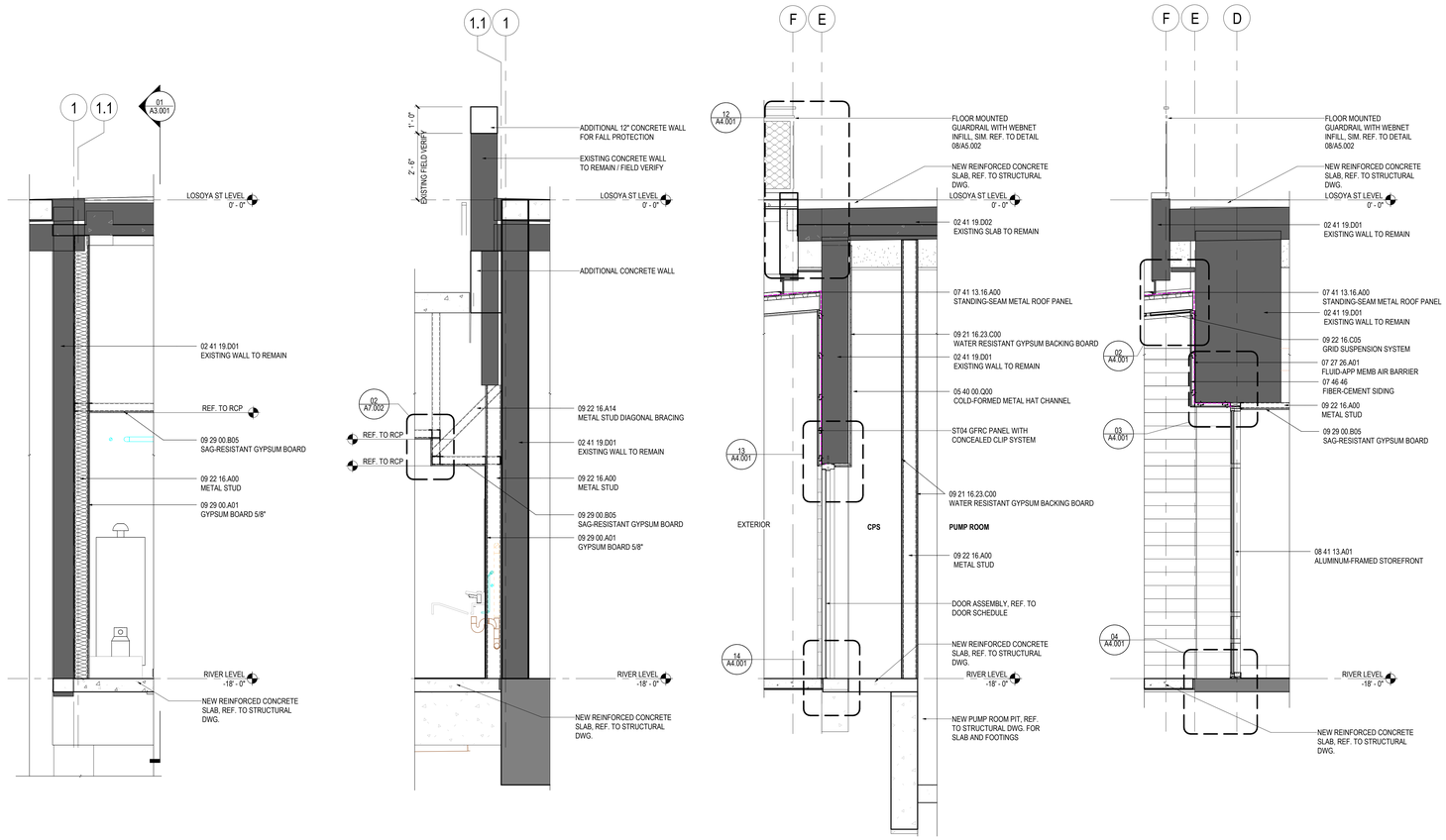
09 SECTION - AT FIBER CEMENT PANEL
SCALE: 1/2" = 1'-0" REF: 03 / A3.000

07 SECTION - EXTERIOR STAIR LANDING
SCALE: 1/2" = 1'-0" REF: /

05 SECTION - AT MASONRY WALL
SCALE: 1/2" = 1'-0" REF: 02 / A3.001

03 SECTION - AT NEW ROOF
SCALE: 1/2" = 1'-0" REF: 02 / A3.001

01 SECTION - AT EXISTING WALL
SCALE: 1/2" = 1'-0" REF: 01 / A3.001



08 SECTION - EXISTING WALL
SCALE: 1/2" = 1'-0" REF: 01 / A3.000

06 SECTION - INFILL AT EXTERIOR STAIR
SCALE: 1/2" = 1'-0" REF: 03 / A3.000

04 SECTION - AT PUMP ROOM
SCALE: 1/2" = 1'-0" REF: 04 / A3.001

02 SECTION - EXISTING OPENING
SCALE: 1/2" = 1'-0" REF: 03 / A3.001

ALAMO TRUST INC.
321 Alamo Plaza
124 Losoya Street
San Antonio, TX 78205

Gensler
229 E. Houston St. Tel 210.222.8059
Suite 200
San Antonio, TX 78205
United States

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

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ARUP
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Houston, TX 77042
Tel 713.782.2787

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Pape-Dawson Engineers
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San Antonio, TX 78213
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Landscape Architect
OJB
711 Louisiana Street, Suite 111
Houston, TX 77002
Tel 713.529.9919

AV/IT/Security
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Austin, TX 78757
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Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Pape-Dawson Engineers
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San Antonio, TX 78213
Tel 210.375.9000

MGAC
Development Manager
MGAC
730 11th St NW
Washington, DC 20001
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01/24/2024	AREA 5 DEMOLITION MOBILIZATION REV. 1
06/13/2024	50% CONSTRUCTION DOCUMENTS

Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
WALL SECTIONS & SECTION DETAILS

Scale
1/2" = 1'-0"

A4.000

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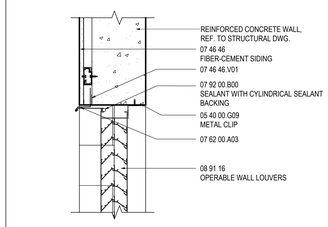
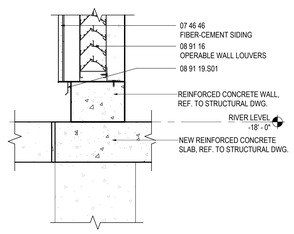


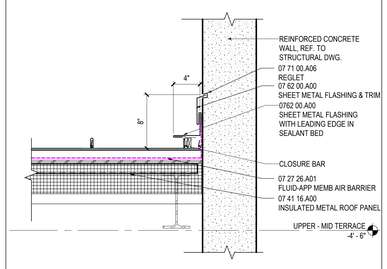
15 SECTION - LOUVER HEAD

SCALE: 1 1/2" = 1'-0" REF: 07 / A4.000



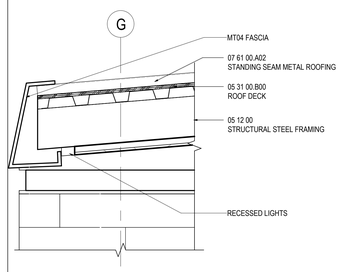
16 SECTION - LOUVER SILL

SCALE: 1 1/2" = 1'-0" REF: 07 / A4.000



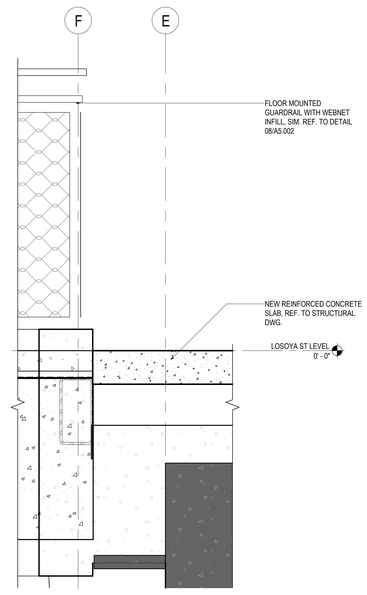
17 SECTION - ROOF FLASHING

SCALE: 1 1/2" = 1'-0" REF: 01 / A1.101



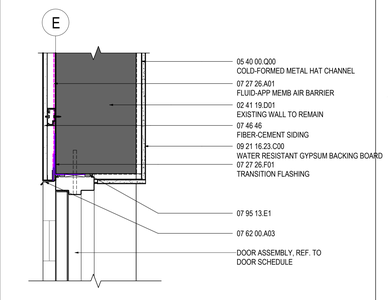
11 SECTION - CANOPY EDGE

SCALE: 1 1/2" = 1'-0" REF: 03 / A3.001



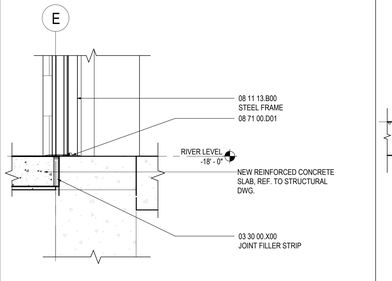
12 SECTION - LOSOYA ELEVATOR LANDING

SCALE: 1 1/2" = 1'-0" REF: 04 / A4.000



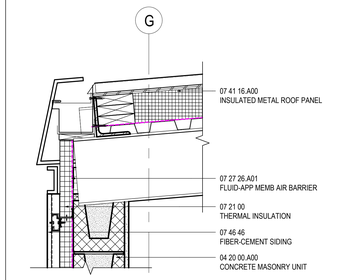
13 SECTION - DOOR HEAD AT EXISTING WALL

SCALE: 1 1/2" = 1'-0" REF: 04 / A4.000



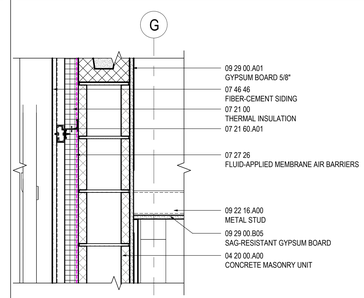
14 SECTION - DOOR SILL AT EXISTING WALL

SCALE: 1 1/2" = 1'-0" REF: 04 / A4.000



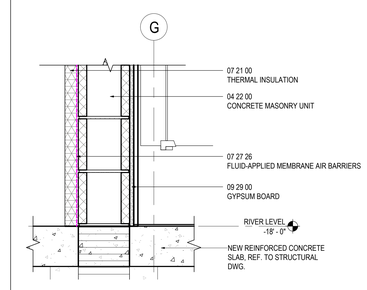
06 SECTION - ROOF EDGE AT RESTROOM

SCALE: 1 1/2" = 1'-0" REF: 05 / A4.000



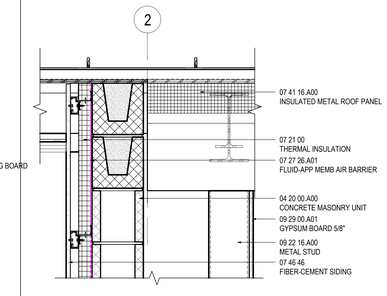
07 SECTION - WALL AT STAIR

SCALE: 1 1/2" = 1'-0" REF: 05 / A4.000



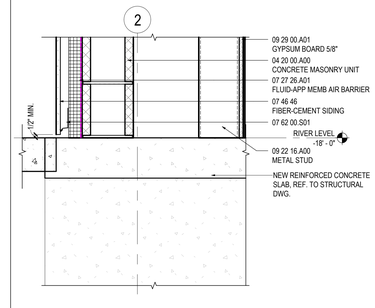
08 SECTION - BASE WALL AT STAIR

SCALE: 1 1/2" = 1'-0" REF: 05 / A4.000



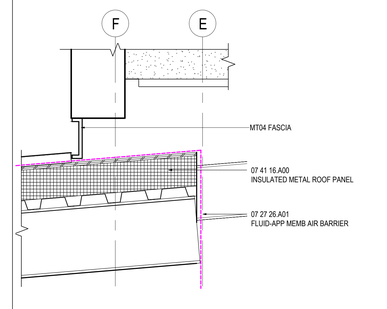
09 SECTION - ROOF AND CANOPY TRANSITION

SCALE: 1 1/2" = 1'-0" REF: 09 / A4.000



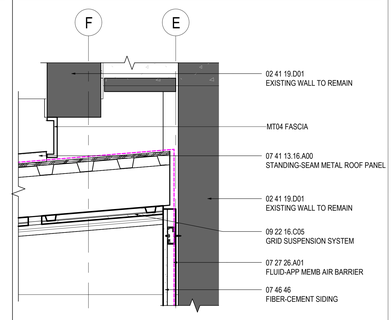
10 SECTION - MASONRY BASE

SCALE: 1 1/2" = 1'-0" REF: 09 / A4.000



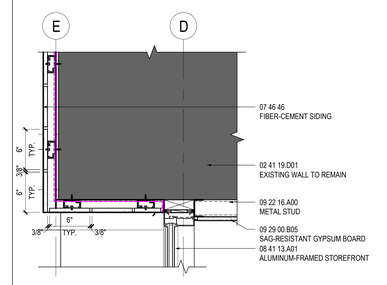
01 SECTION - ROOF TRANSITION

SCALE: 1 1/2" = 1'-0" REF: 03 / A4.000



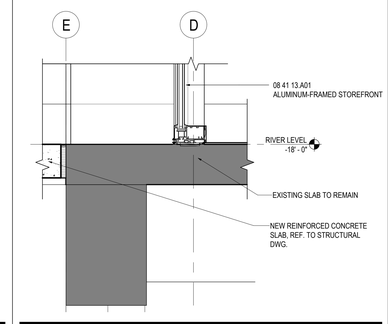
02 SECTION - WELCOME CENTER CANOPY 03

SCALE: 1 1/2" = 1'-0" REF: 02 / A4.000



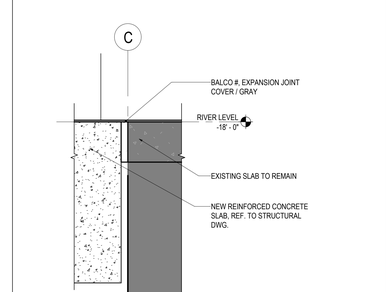
03 SECTION - AT EXISTING OPENING

SCALE: 1 1/2" = 1'-0" REF: 02 / A4.000



04 SECTION - EXISTING SILL OPENING

SCALE: 1 1/2" = 1'-0" REF: 02 / A4.000



05 SECTION - FLOOR TRANSITION

SCALE: 1 1/2" = 1'-0" REF: 01 / A4.000

ALAMO TRUST INC.
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Austin, TX 78757
Tel 512.478.6001

DATUM ENGINEERS
Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

MGAC
Development Manager
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

Seal / Signature

Date	Description
11/02/2023	100% DESIGN DEVELOPMENT
01/05/2024	AREA 5 DEMOLITION MOBILIZATION
01/24/2024	AREA 5 DEMOLITION MOBILIZATION REV. 1
06/13/2024	50% CONSTRUCTION DOCUMENTS

Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
SECTION DETAILS

Scale
1 1/2" = 1'-0"

A4.001

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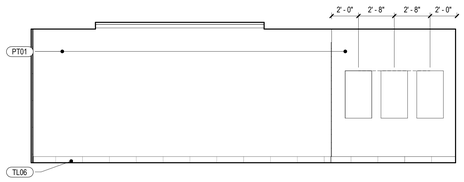
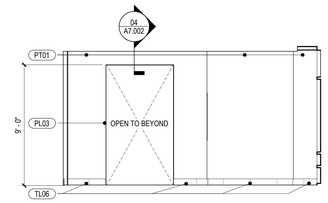
6/13/2024 4:57:00 PM Autodesk Docs://122.0076.000 - Alamo Site/122.0076.500 Phase 5 R22.rvt



17 ELEVATION - RECEPTION 1
SCALE: 1/4" = 1'-0" REF: 02 / A1.101



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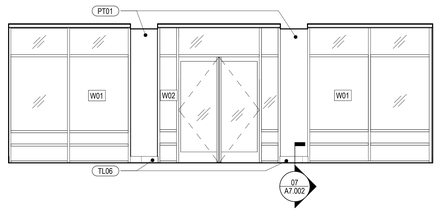

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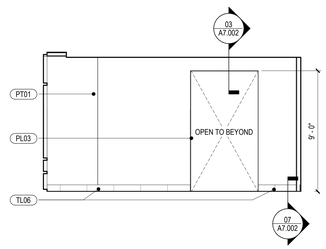

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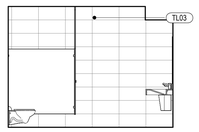
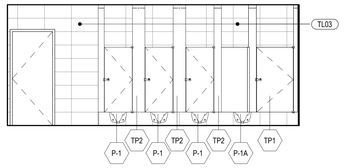


11 ELEVATION 1 - WOMEN'S - 004
SCALE: 1/4" = 1'-0" REF: 01 / A5.001



12 ELEVATION 2 - WOMEN'S - 004
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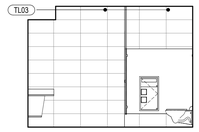

13 ELEVATION 3 - WOMEN'S - 004
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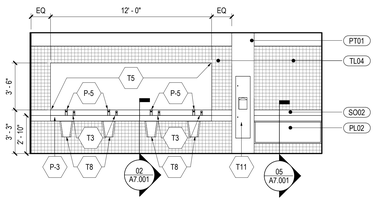

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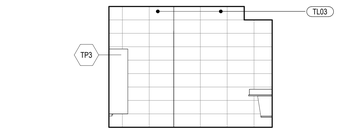

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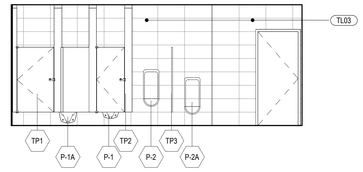

06 ELEVATION 2 - MEN'S - 003
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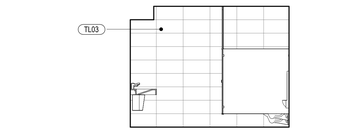

07 ELEVATION 3 - MEN'S - 003
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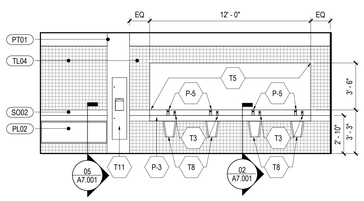

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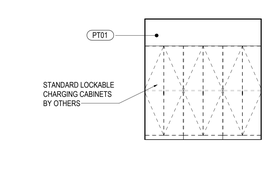
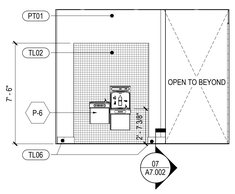
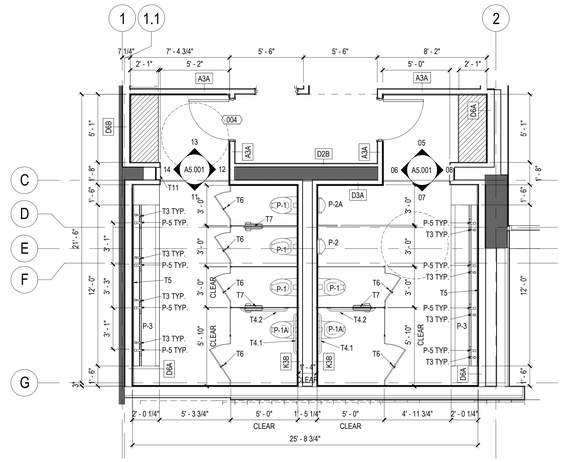


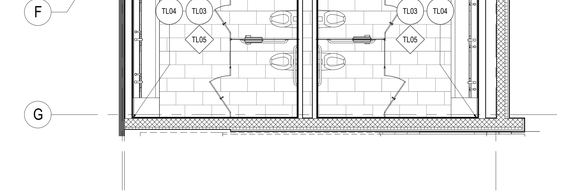
15 ELEVATION - STORAGE MILLWORK
SCALE: 1/4" = 1'-0" REF: 02 / A1.101



09 ELEVATION - DRINKING FOUNTAIN
SCALE: 1/4" = 1'-0" REF: 02 / A1.101



01 ENLARGED PLAN - RESTROOMS
SCALE: 1/4" = 1'-0" REF: 02 / A1.101



02 FINISH PLAN - RESTROOMS
SCALE: 1/4" = 1'-0" REF: 02 / A1.101

ALAMO TRUST INC.
321 Alamo Plaza
124 Losoya Street
San Antonio, TX 78205

Gensler
229 E. Houston St. Tel 210.222.8059
Suite 200
San Antonio, TX 78205
United States

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

Owner's Rep
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

Landscape Architect
OJB
711 Louisiana Street, Suite 111
Houston, TX 77002
Tel 713.529.9919

MEP, Lighting, Security, and Acoustics Consultant
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10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.782.2787

Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

Civil Engineer
Parra & Co
110 E. Houston Street, Floor 7
San Antonio, TX 78205
Tel 210.819.4848

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

Seal / Signature

△	Date	Description
	08/10/2023	100% SCHEMATIC DESIGN
	11/02/2023	100% DESIGN DEVELOPMENT
	01/05/2024	AREA 5 DEMOLITION MOBILIZATION
	01/24/2024	AREA 5 DEMOLITION MOBILIZATION REV. 1
	06/13/2024	50% CONSTRUCTION DOCUMENTS

Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
ENLARGED PLANS AND INTERIOR ELEVATIONS

Scale
1/4" = 1'-0"

A5.001

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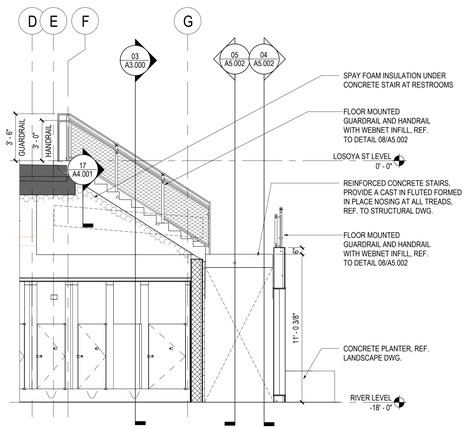
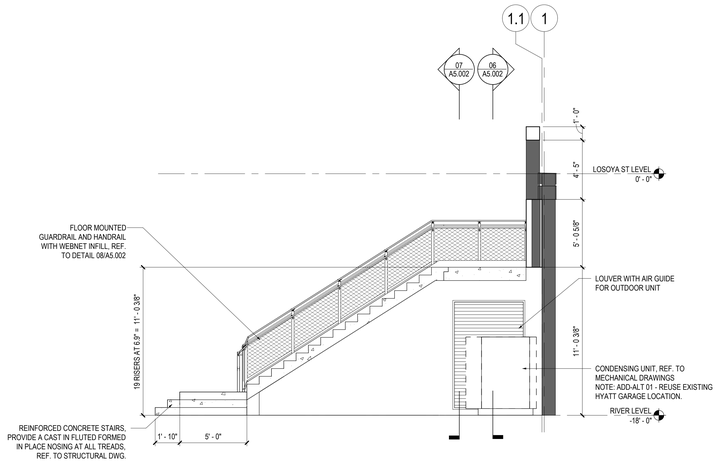


07 SECTION - EXTERIOR STAIR EAST

SCALE: 1/4" = 1'-0" REF: 01 / A1.101



04 SECTION - EXTERIOR STAIR SOUTH

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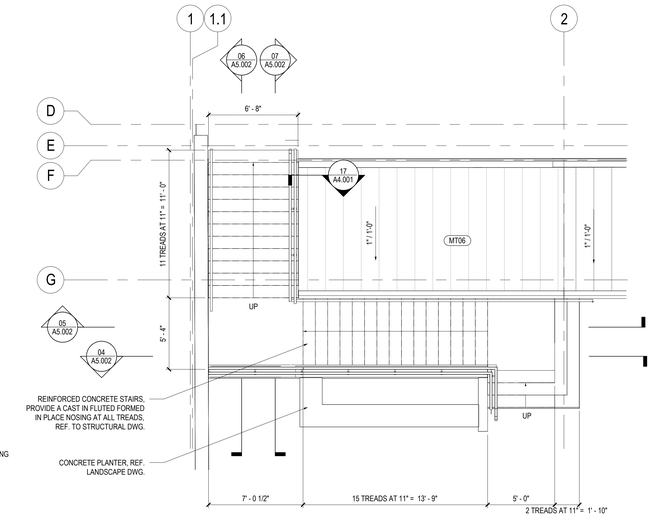

01 ENLARGED PLAN - EXTERIOR STAIR

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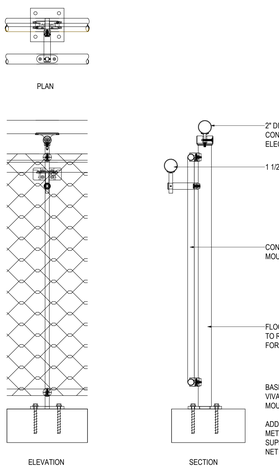

08 TOP MOUNTED POST

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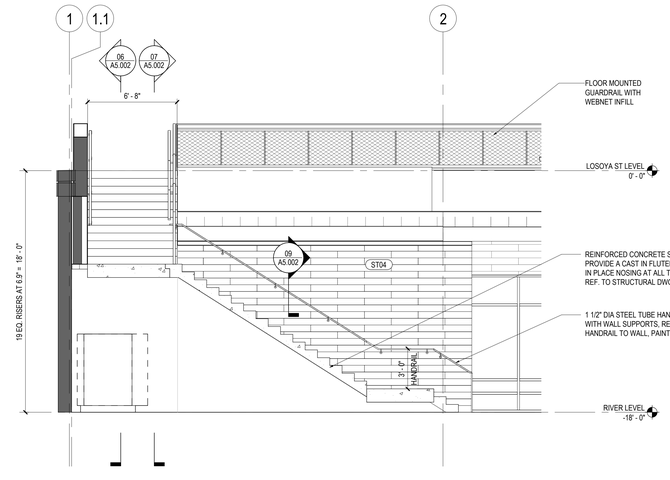

05 SECTION - EXTERIOR STAIR NORTH

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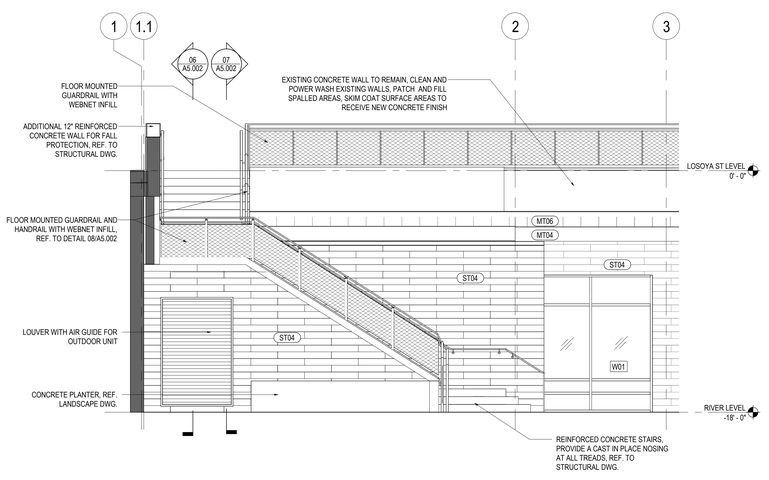

02 ELEVATION - EXTERIOR STAIR NORTH

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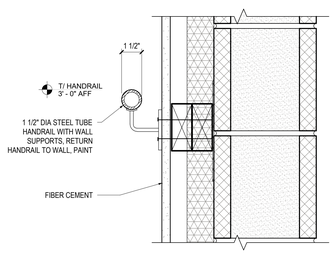
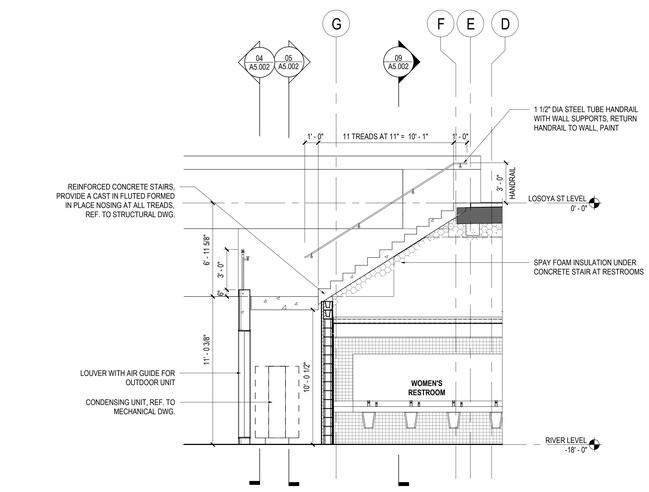


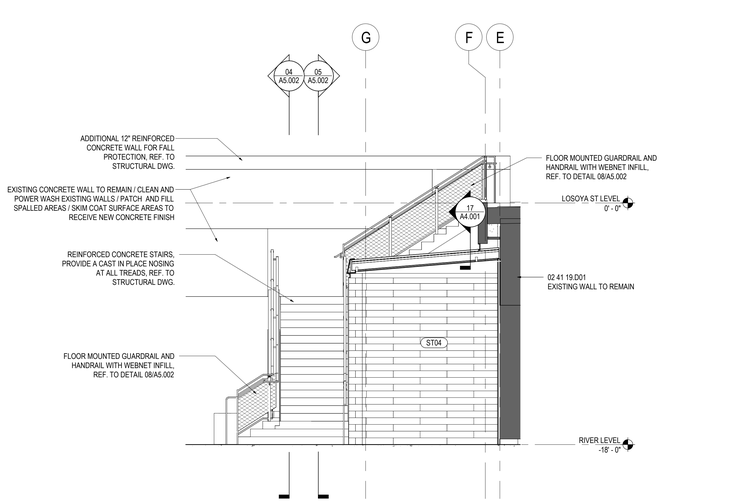
09 SECTION @ HANDRAIL

SCALE: 3" = 1'-0" REF: 05 / A5.002



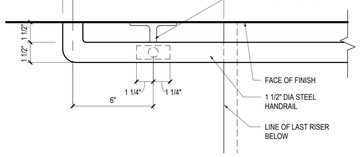
06 SECTION - EXTERIOR STAIR WEST

SCALE: 1/4" = 1'-0" REF: 02 / A3.000



03 ELEVATION - EXTERIOR STAIR WEST

SCALE: 1/4" = 1'-0" REF: 02 / A1.101



10 PLAN @ HANDRAIL

SCALE: 3" = 1'-0" REF: /

MATERIAL LEGEND

- ST04 - TAKTL PANEL
- MT04 - METAL PANEL
- WEBNET
- MT05 - CHAINS

ALAMO TRUST INC.
321 Alamo Plaza
124 Losoya Street
San Antonio, TX 78205

Gensler
229 E. Houston St. Tel 210.222.8059
Suite 200
San Antonio, TX 78205
United States

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
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Tel 210.225.1391

ARUP
MEP, Lighting, Security, and Acoustics Consultant
ARUP
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.782.2787

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
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711 Louisiana Street,
Suite 111
Houston, TX 77002
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7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

DATUM ENGINEERS
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311 Sixth Street
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Seal / Signature

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	01/05/2024	AREA 5 DEMOLITION MOBILIZATION
	01/24/2024	AREA 5 DEMOLITION MOBILIZATION REV. 1
	06/13/2024	50% CONSTRUCTION DOCUMENTS

Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
EXTERIOR STAIR - PLAN AND ELEVATIONS

Scale
As indicated

A5.002

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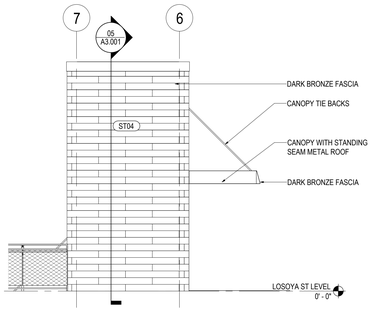
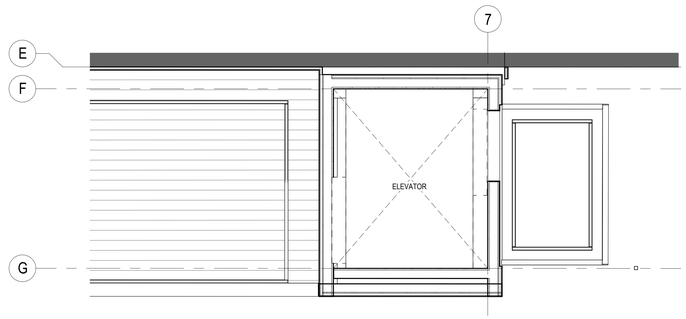


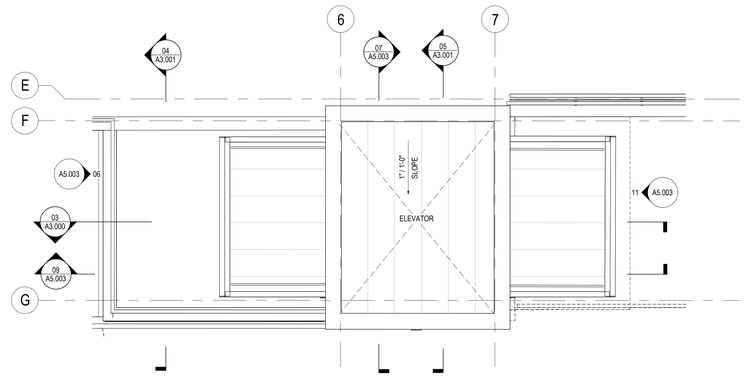
10 ELEVATION - ELEVATOR NORTH

SCALE: 1/4" = 1'-0" REF: /



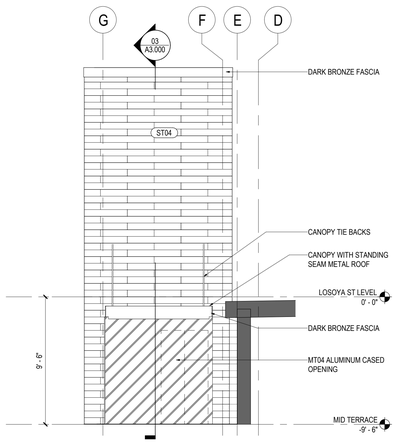
05 REFLECTED CEILING PLAN - ELEVATOR - RIVER LEVEL

SCALE: 3/8" = 1'-0" REF: /



01 ROOF PLAN - ELEVATOR - LOSOYA ST LEVEL

SCALE: 3/8" = 1'-0" REF: 01 / A1.101



11 ELEVATION - ELEVATOR EAST

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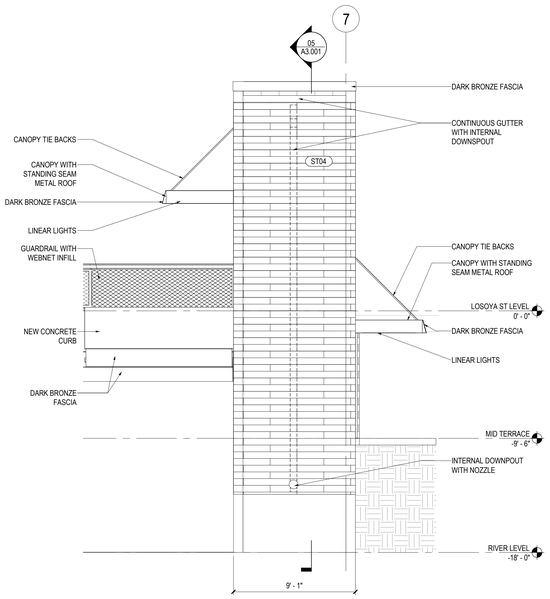
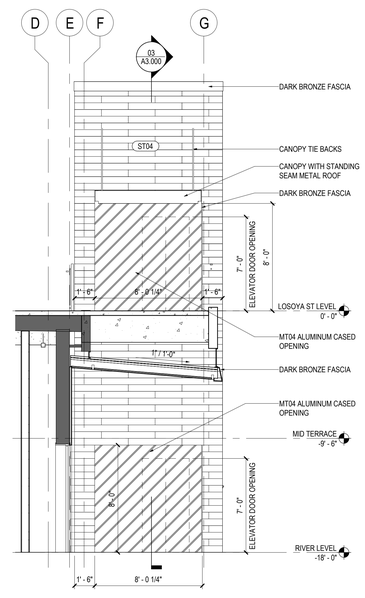


08 ELEVATION - ELEVATOR SOUTH

SCALE: 1/4" = 1'-0" REF: 02 / A1.102



06 ELEVATION - EXTERIOR ELEVATOR WEST

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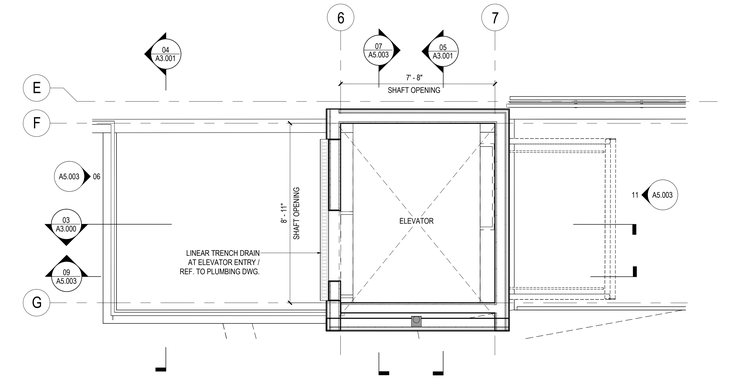
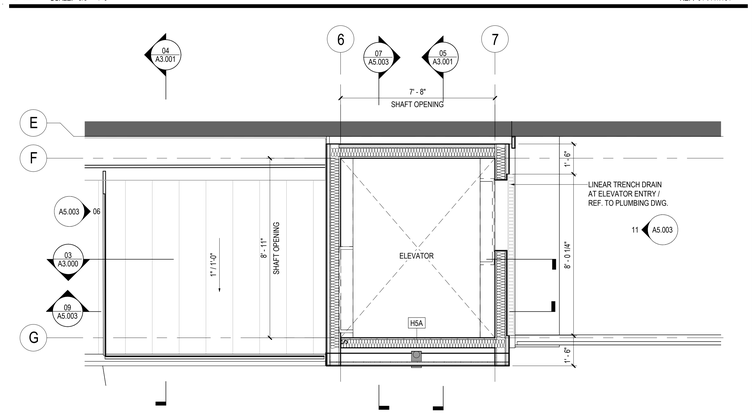


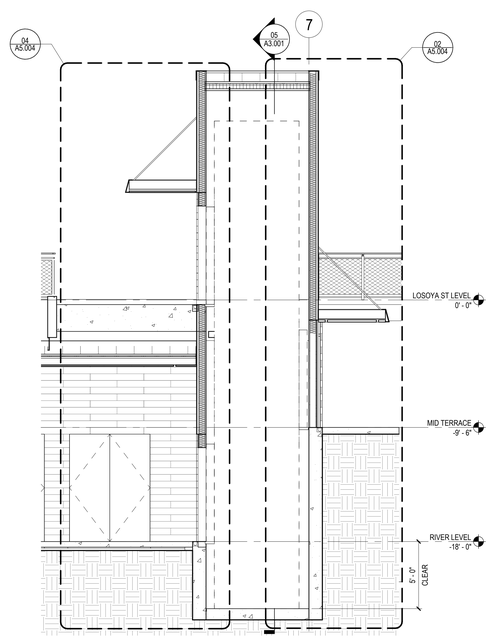
02 PLAN - ELEVATOR - LOSOYA ST LEVEL

SCALE: 3/8" = 1'-0" REF: 01 / A1.101



03 PLAN - ELEVATOR - MID TERRACE

SCALE: 3/8" = 1'-0" REF: 02 / A1.102



09 ELEVATOR SECTION - EAST/WEST

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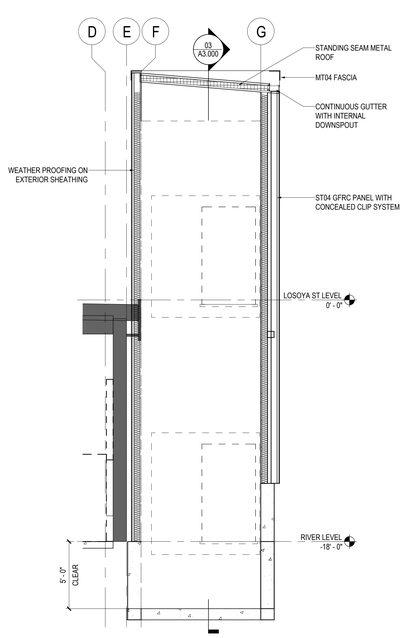

07 ELEVATOR SECTION - NORTH/SOUTH

SCALE: 1/4" = 1'-0" REF: 01 / A5.003

04 PLAN - ELEVATOR - RIVER LEVEL

SCALE: 3/8" = 1'-0" REF: 02 / A1.101

ALAMO TRUST INC.
321 Alamo Plaza
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Gensler
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Tel 210.225.1391

ARUP
MEP, Lighting, Security, and Acoustics Consultant
ARUP
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.782.2787

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

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Landscape Architect
OJB
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Houston, TX 77002
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AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

DATUM ENGINEERS
Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

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Development Manager
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

Seal / Signature

△	Date	Description
	08/10/2023	100% SCHEMATIC DESIGN
	11/02/2023	100% DESIGN DEVELOPMENT
	01/05/2024	AREA 5 DEMOLITION MOBILIZATION
	01/24/2024	AREA 5 DEMOLITION MOBILIZATION REV. 1
	06/13/2024	50% CONSTRUCTION DOCUMENTS

Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
EXTERIOR ELEVATOR - PLAN AND ELEVATIONS

Scale
As indicated

A5.003

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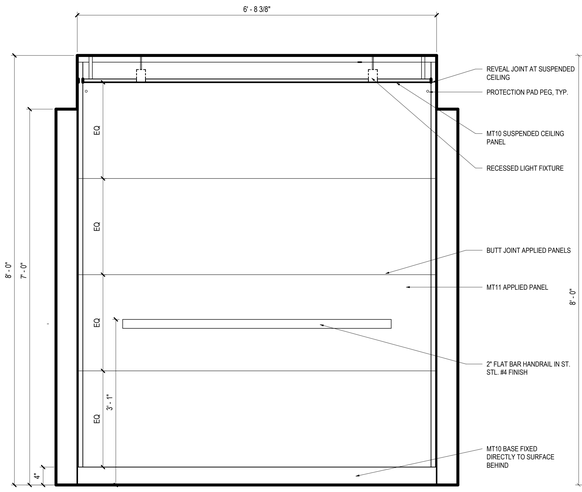
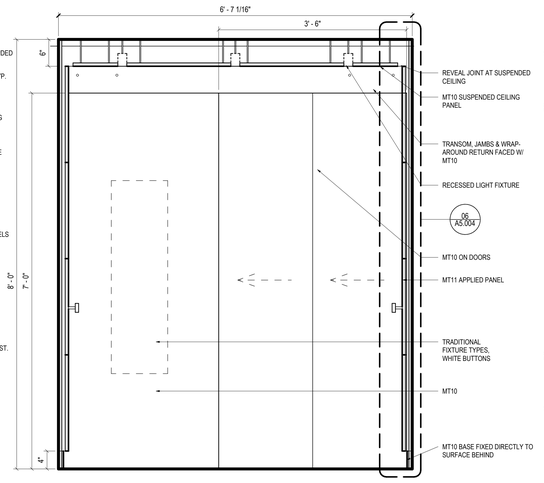


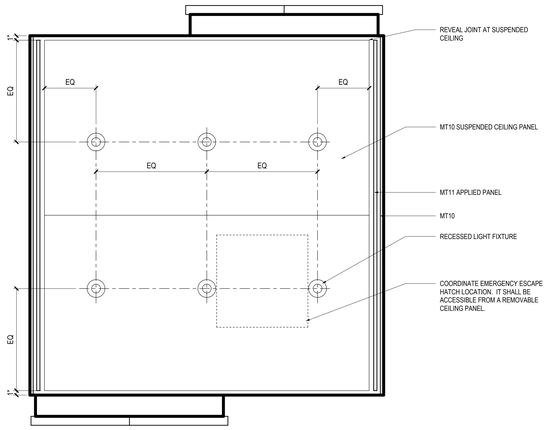
08 ELEVATOR CAB ELEVATION - SIDE TYP.

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



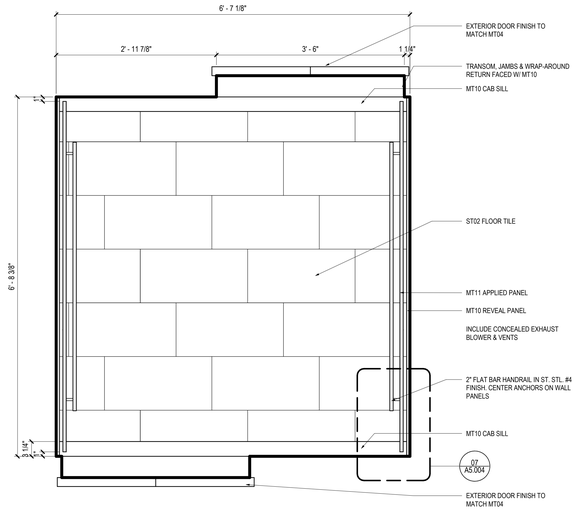
05 ELEVATOR CAB ELEVATION - FRONT/REAR TYP.

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



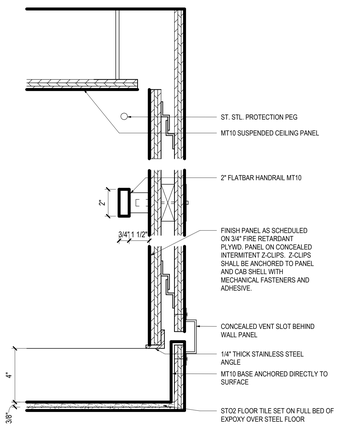
03 ELEVATOR CAB RCP

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



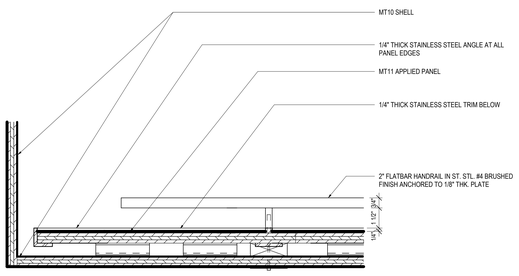
01 ELEVATOR CAB PLAN

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



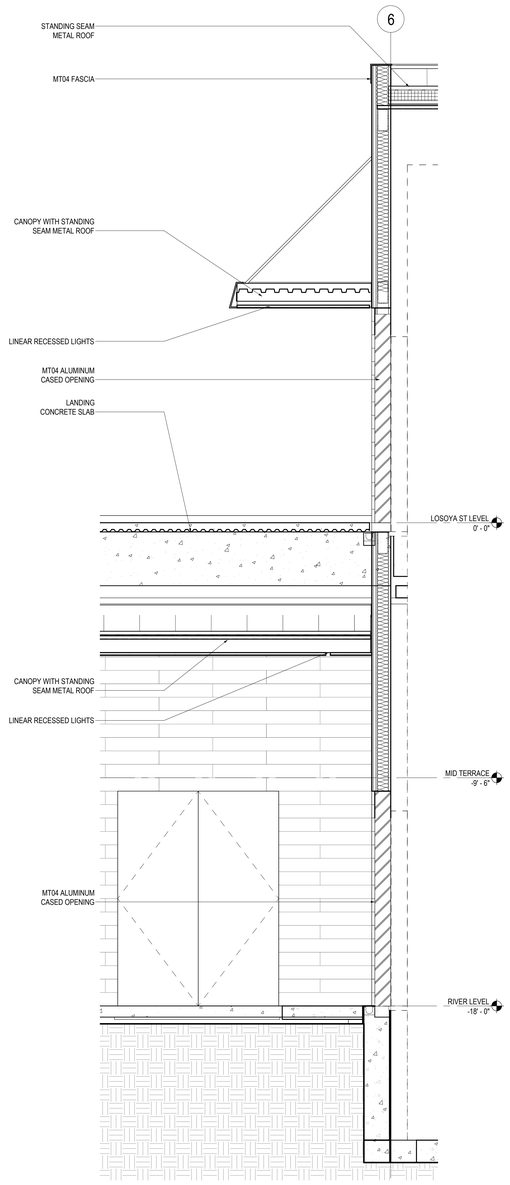
06 ELEVATOR CAB - SECTION DETAIL

SCALE: 3" = 1'-0" REF: 05 / A5.004



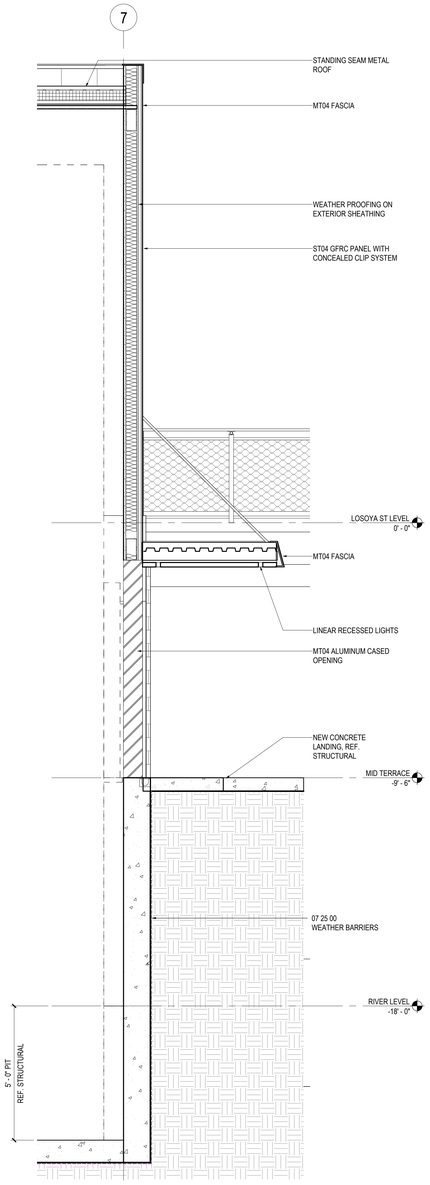
07 ELEVATOR CAB - PLAN DETAIL

SCALE: 3" = 1'-0" REF: 01 / A5.004



04 WALL SECTION - ELEVATOR - EAST/WEST

SCALE: 1/2" = 1'-0" REF: 09 / A5.003



02 WALL SECTION - ELEVATOR - WEST/EAST

SCALE: 1/2" = 1'-0" REF: 09 / A5.003

ALAMO TRUST INC.
321 Alamo Plaza
124 Losoya Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
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ARUP
MEP, Lighting, Security, and Acoustics Consultant
ARUP
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Houston, TX 77042
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OJB
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OJB
711 Louisiana Street,
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Houston, TX 77002
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AV/IT/Security
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MGAC
Development Manager
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

Seal / Signature

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01/24/2024	AREA 5 DEMOLITION MOBILIZATION REV. 1
06/13/2024	50% CONSTRUCTION DOCUMENTS

Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
EXTERIOR ELEVATOR - SECTIONS AND CAB FINISH

Scale
As indicated

A5.004

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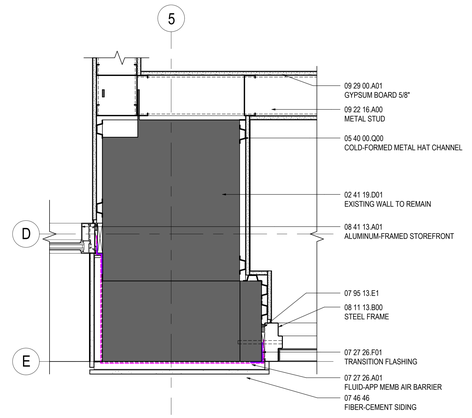
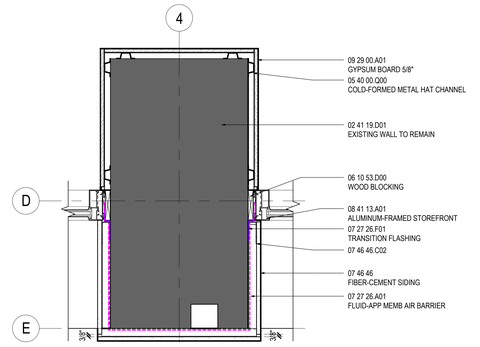


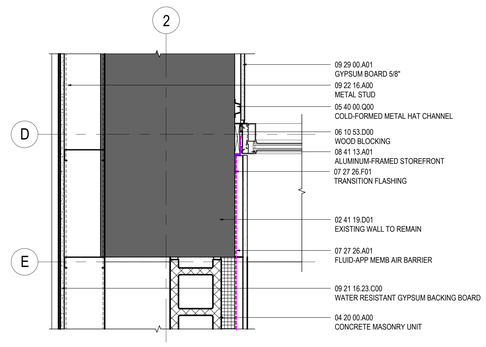
01 PLAN DETAIL - AT DOOR JAMB AND STOREFRONT

SCALE: 1 1/2" = 1'-0" REF: 02 / A1.101



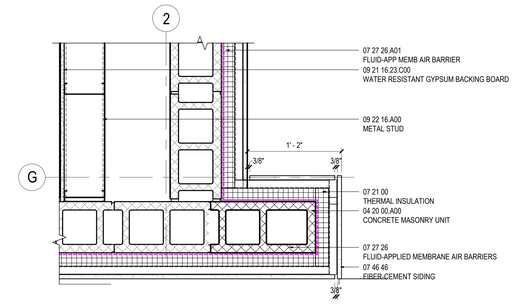
02 PLAN DETAIL - AT STOREFRONT

SCALE: 1 1/2" = 1'-0" REF: 02 / A1.101



04 PLAN DETAIL - AT NEW WALL TRANSITION

SCALE: 1 1/2" = 1'-0" REF: 02 / A1.101



03 PLAN DETAIL - AT CMU

SCALE: 1 1/2" = 1'-0" REF: 02 / A1.101

ALAMO TRUST INC.
321 Alamo Plaza
124 Losoya Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
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MEP, Lighting, Security, and Acoustics Consultant
ARUP
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.782.2787

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

Landscape Architect
OJB
711 Louisiana Street,
Suite 111
Houston, TX 77002
Tel 713.529.9919

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
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Development Manager
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

Seal / Signature

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06/13/2024	50% CONSTRUCTION DOCUMENTS

Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
EXTERIOR PLAN DETAILS

Scale
1 1/2" = 1'-0"

A6.000

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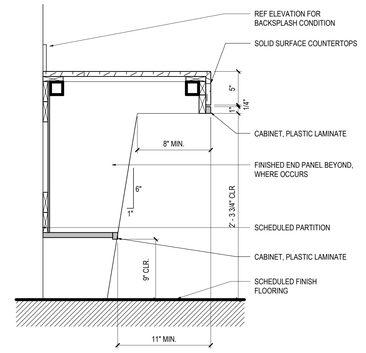
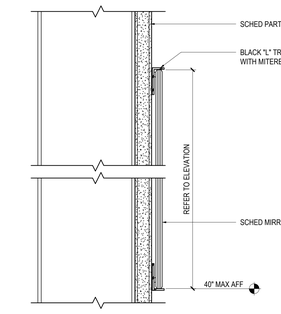


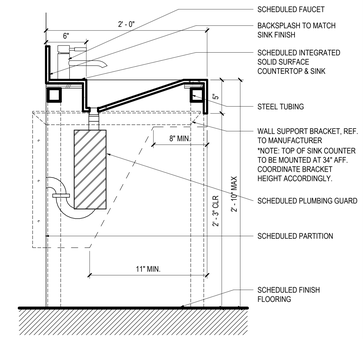
05 BC_ADA UNDERCOUNTER SHELF_PLAM

SCALE: 1 1/2" = 1'-0" REF: 08 / A5.001



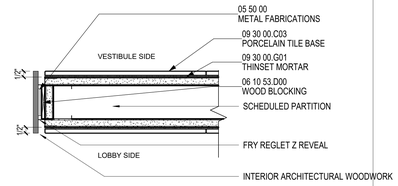
01 MIRROR DETAIL

SCALE: 6" = 1'-0" REF: /



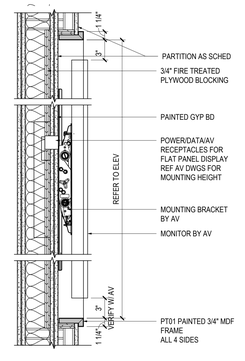
02 BASE CABINET - SINK

SCALE: 1 1/2" = 1'-0" REF: 08 / A5.001



03 DETAIL @ MILLWORK WALL OPENING

SCALE: 3" = 1'-0" REF: 02 / A1.101



04 RECESSED MONITOR

SCALE: 1 1/2" = 1'-0" REF: /

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321 Alamo Plaza
124 Losoya Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
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Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
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Fax 512.463.5001

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Structural Engineer
Datum Engineers, Inc.
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San Antonio, TX 78215
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Fax F-2819

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MGAC
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Washington, DC 20001
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Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
INTERIOR AND MILLWORK DETAILS

Scale
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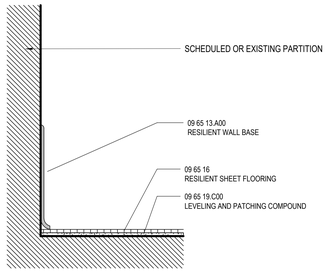

09 RESILIENT BASE - RESILIENT SHEET

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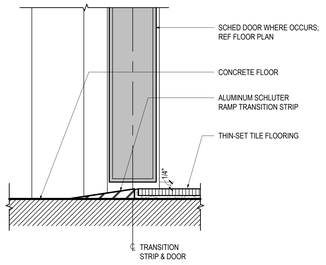
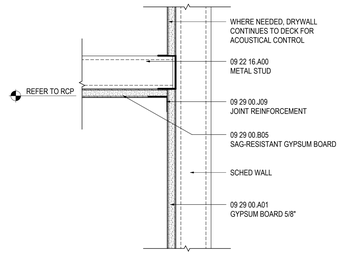


05 PORCELAIN TILE TO CONCRETE

SCALE: 6" = 1'-0" REF: 01 / A1.300



01 GYP SOFFIT TO GYP WALL

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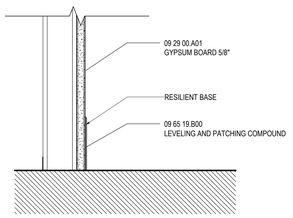

10 RESILIENT BASE - CONCRETE

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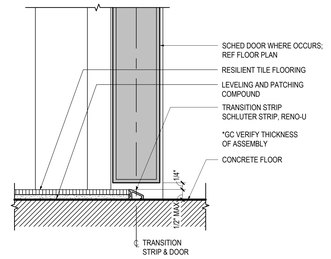

06 RESILIENT TO CONCRETE TRANSITION

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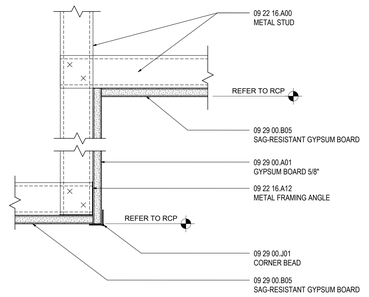

02 GYP BOARD STEPPED SOFFIT

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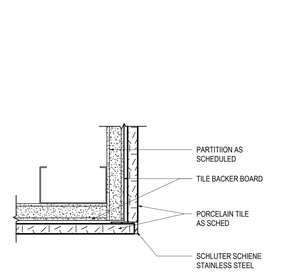
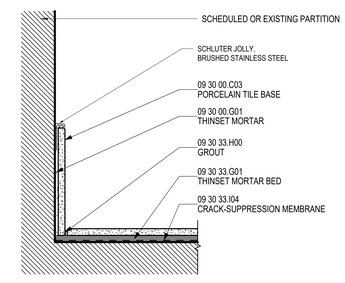


11 TILE TO TILE CORNER TRANSITION

SCALE: 6" = 1'-0" REF: /



07 PORCELAIN TILE BASE

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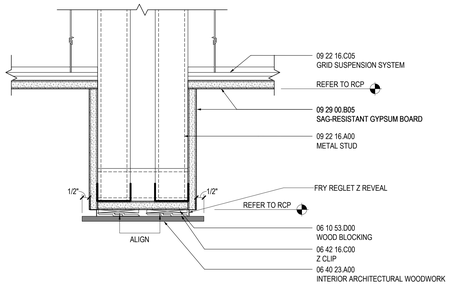
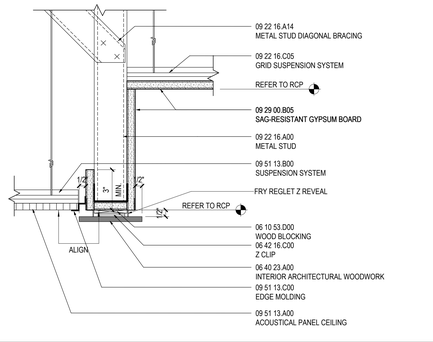


03 STEPPED BULKHEAD WOOD PORTAL - GYP TO GYP BD

SCALE: 3" = 1'-0" REF: 20 / A5.001

08 WALL TILE / FLOOR TILE TRANSITION

SCALE: 6" = 1'-0" REF: /



04 STEPPED BULKHEAD WOOD PORTAL - APC TO GYP BD

SCALE: 3" = 1'-0" REF: 01 / A1.200

ALAMO TRUST INC.
321 Alamo Plaza
124 Losoya Street
San Antonio, TX 78205

Gensler
229 E. Houston St. Tel 210.222.8059
Suite 200
San Antonio, TX 78205
United States

Client
The Texas General Land Office
1700 Congress Ave.
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Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
CEILING AND FINISH DETAILS

Scale
As indicated

A7.002

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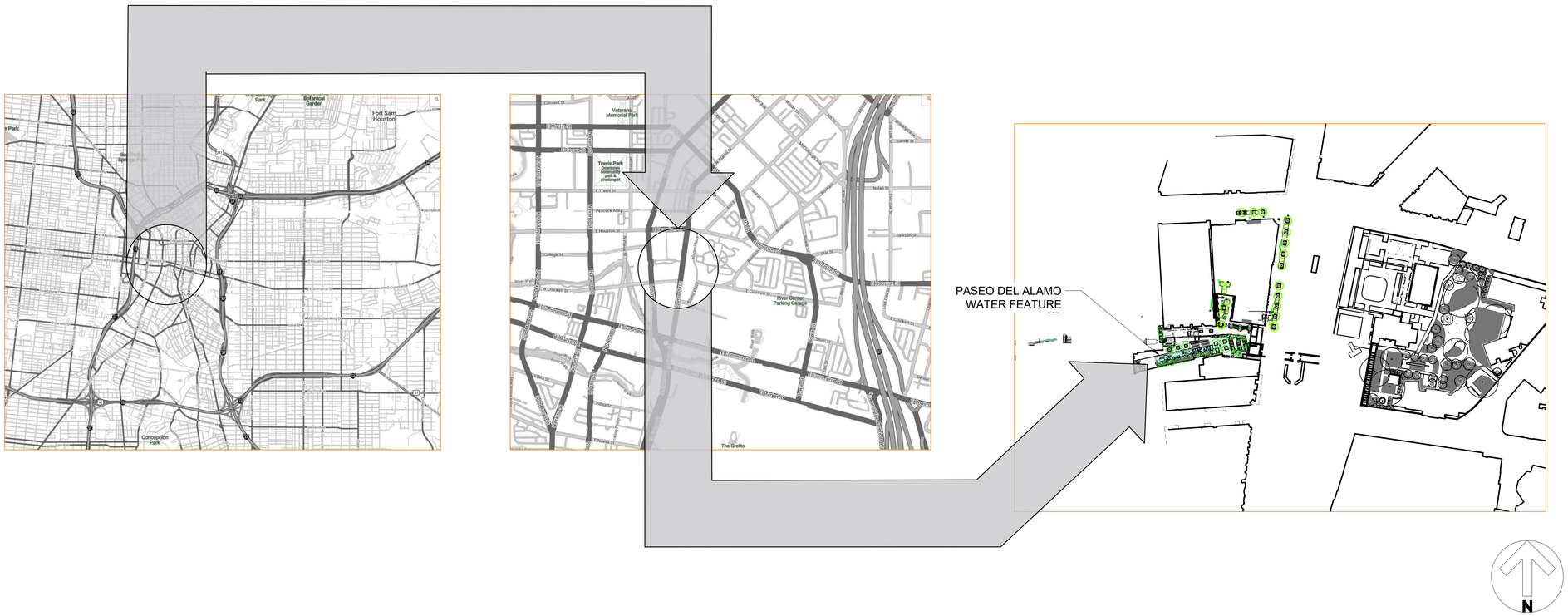

SITE PLAN

ARCHITECT

GENSLER
229 E. Houston Street, Suite 200
San Antonio, Texas 78205
210.222.8059

W. F. DESIGN/BUILDER

OUTSIDE THE LINES, INC.
2150 S. Towne Centre Place, Suite 100
Anaheim, California 92806
714.637.4747

LANDSCAPE ARCHITECT

OJB
1760 Market Street
Suite 501
Philadelphia, PA 19103
857.444.8676

OWNER

ALAMO TRUST
300 Alamo Plaza, Suite 200
San Antonio, Texas 78205
210.225.1391

SHEET INDEX

SHEET #	DESCRIPTION
WF0.0	SITE LOCATION & SHEET INDEX
WF0.1	WATER FEATURES SITE PLAN
WF0.2	WATER FEATURES UTILITY CONNECTION
WF1.0	WATER FEATURES LAYOUT & DETAILS
WF1.1	WATER FEATURES DETAILS
WF2.0	WATER FEATURES PIPE ROUTING
WF3.0	WATER FEATURE EQUIPMENT SPACE PLAN
WF5.0	PIPING & INSTRUMENT DIAGRAM (P&ID)
WF5.1	ELECTRICAL ONE-LINE (EOL)
WF5.2	BILL OF MATERIALS
WF6.0	STANDARD DETAILS

PROJECT ADDRESS

317-323 Alamo Plaza
517 E. Houston Street
San Antonio, TX 78205

PROJECT TEAM | SHEET INDEX | PROJECT DATA

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

Owner's Rep
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

Landscape Architect
OJB
711 Louisiana Street,
Suite 111
Houston, TX 77002
Tel 713.529.9919

MEP, Lighting, Security, and Acoustics Consultant
ARUP
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.782.2787

Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

Civil Engineer
Parra & Co
110 E. Houston Street. Floor 7
San Antonio, TX 78205
Tel 210.819.4848

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

Water Features
Outside the Lines, Inc.
2150 S. Towne Centre Place
Suite 100
Anaheim, CA 92806
Tel 714.637.4747

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Date	Description
05/19/2023	50% SCHEMATIC DESIGN
11/02/2023	100% DESIGN DEVELOPMENT
06/06/2024	50% CONSTRUCTION DOCUMENTS

Project Name
ALAMO SITE: AREA 5 - PASEO DEL ALAMO

Project Number
122.0076.500

Description
SITE LOCATION & SHEET INDEX

Scale

WF0.0

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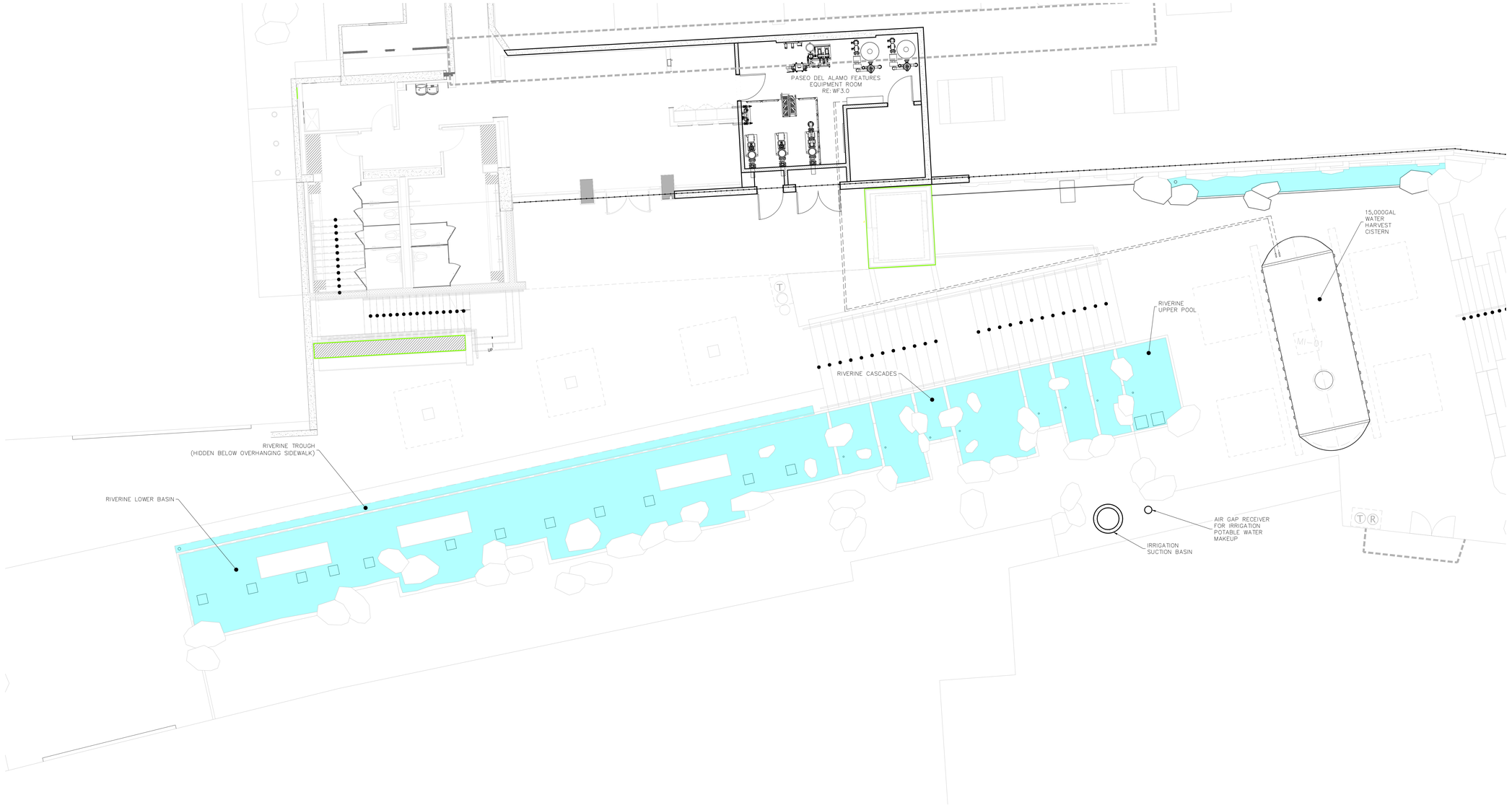

01 PASEO DEL ALAMO FEATURES SITE PLAN
SCALE: 3/16"=1'-0" 1' 2' 4' 8'

PASEO DEL ALAMO FEATURES

THE PASEO DEL ALAMO WATER FEATURE IS A LINEAR FEATURE, STARTING WITH A QUIET UPPER POOL AT THE MIDDLE LEVEL OF THE PASEO, CASCADING DOWN SMALL WATERFALLS TO A LONG POOL WITH AQUATIC PLANTS. THE LONG BASIN WILL WEIR OVER THE EDGE AT THE SIDEWALK AND FALL INTO A HIDDEN LOWER TROUGH. THE PUMPS WILL PULL WATER FROM THE LOWER TROUGH. WEIR STONE WILL BE SLIGHTLY ABOVE THE SIDEWALK LEVEL ALLOWING GUESTS CLOSE VISUAL CONNECTION TO THE WATER AND PLANTS.

THE SPRINGWALL IS A WATERWALL ON THE NORTH SIDE OF THE PASEO. WATER FROM ONE OF THE CASCADE PUMPS IS DIVERTED TO A VALVE BOX NEAR THE WALL. THE WATER ENTERING THE WATERWALL BASIN WILL OVERFLOW TO THE LOWER TROUGH ON THE RIVERINE FEATURE.

TO MAINTAIN GOOD WATER QUALITY IN AN AQUATIC FEATURE IT REQUIRES A HIGH CIRCULATION RATE THROUGH SPECIAL FILTERS. THESE BIO-FILTERS REMOVE DEBRIS AND ALLOW THE GROWTH OF HELPFUL NITRIFYING BACTERIA THAT PROCESS DISSOLVED NITROGENOUS WASTE PRODUCTS EXCRETED BY THE AQUATIC ORGANISMS IN THE WATER. TO FURTHER ENHANCE THE WATER QUALITY, UV STERILIZATION WILL BE ADDED TO THE FILTERED WATER TO KILL FREE FLOATING ALGAE IN THE WATER STREAM. THIS EQUIPMENT, ALONG WITH THE AQUATIC PLANTS WILL SIGNIFICANTLY IMPROVE THE WATER CLARITY. ALGAE WILL STILL GROW ON THE SURFACES BELOW WATER LEVEL, BUT THIS IS A NATURAL LOOK AND QUITE NORMAL FOR THIS TYPE OF SYSTEM. THE PUMP EQUIPMENT WILL BE LOCATED IN AN EQUIPMENT ROOM IN THE TICKETING CENTER ADJACENT TO THE LINEAR FEATURE.

PASEO DEL ALAMO IRRIGATION SYSTEM

A CISTERN LOCATED AT THE MIDDLE LEVEL OF THE PASEO WILL COLLECT RAINWATER FROM THE SURFACE AND ADJACENT BUILDINGS. THIS RAINWATER WILL BE USED FOR IRRIGATION IN THE PASEO. A PUMP SYSTEM IN THE EQUIPMENT ROOM WILL PROVIDE THE FLOW AND PRESSURE REQUIRED THE IRRIGATION HEADS. THE IRRIGATION CONTROLS WILL BE BY OTHERS.

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

Owner's Rep
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

Landscape Architect
OJB
711 Louisiana Street,
Suite 111
Houston, TX 77002
Tel 713.529.9919

MEP, Lighting, Security, and Acoustics Consultant
ARUP
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.782.2787

Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

Civil Engineer
Parra & Co
110 E. Houston Street. Floor 7
San Antonio, TX 78205
Tel 210.819.4848

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

Water Features
Outside the Lines, Inc.
2150 S. Towne Centre Place
Suite 100
Anaheim, CA 92806
Tel 714.637.4747

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Project Name
ALAMO SITE: AREA 5 - PASEO DEL ALAMO

Project Number
122.0076.500

Description
WATER FEATURES
SITE PLAN

Scale

WF0.1

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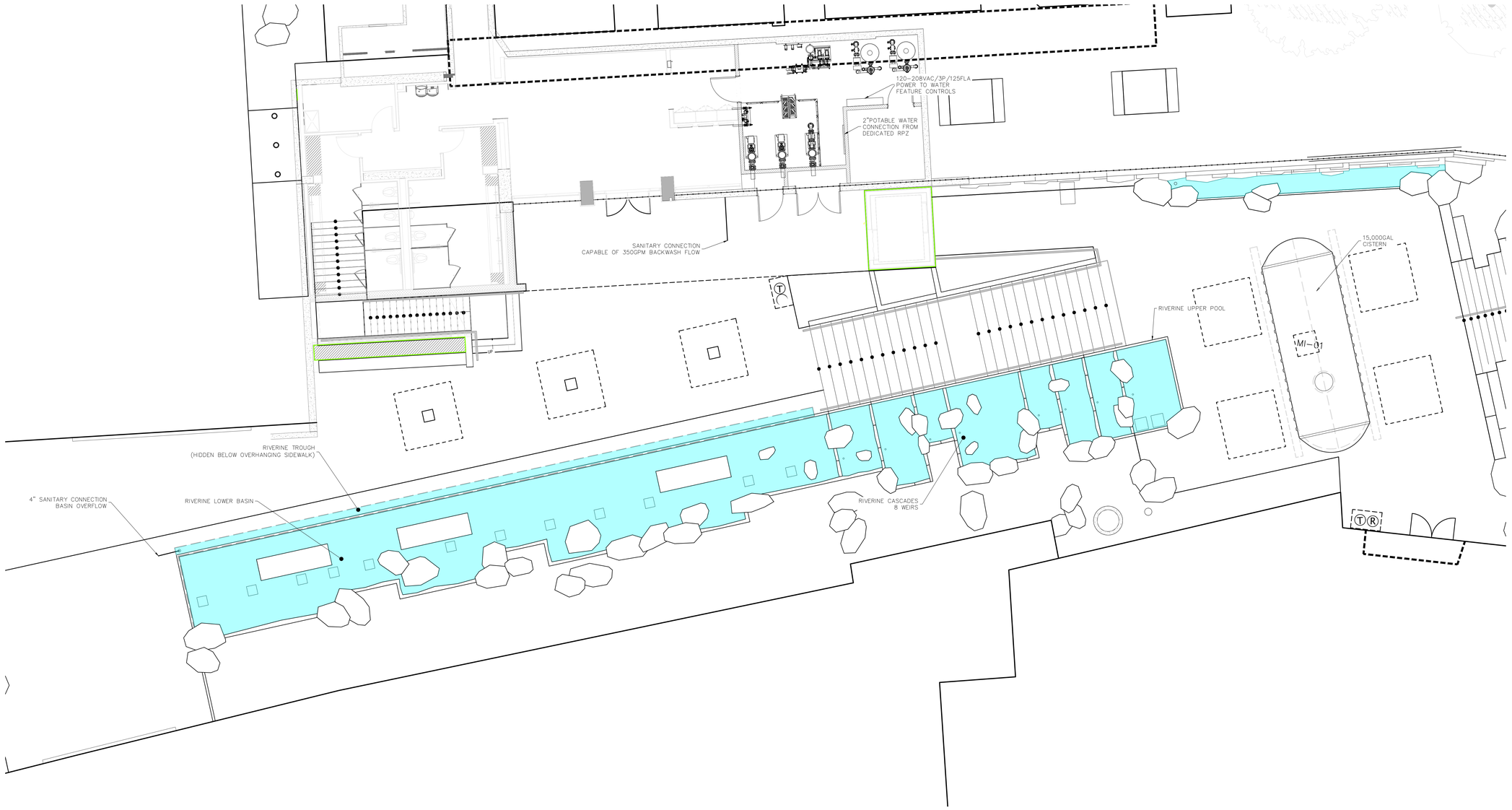

01 PASEO DEL ALAMO FEATURES UTILITY CONNECTIONS
SCALE: 3/16"=1'-0"

PASEO DEL ALAMO WATER FEATURE UTILITIES

TO EQUIPMENT SPACE

POTABLE WATER - 2" FROM RPZ

POWER - 120-208VAC/3PHASE/125FLA

SANITARY SEWER - 4" (350GPM BACKWASH MAX) AT EQUIPMENT SPACE

TO LOWER BASIN TROUGH

SANITARY SEWER - 4" BASIN OVERFLOW

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

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The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

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730 11th St NW
Washington, DC 20001
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Civil Engineer
Parra & Co
110 E. Houston Street, Floor 7
San Antonio, TX 78205
Tel 210.819.4848

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd#350,
Austin, TX 78757
Tel 512.478.6001

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2150 S. Towne Centre Place
Suite 100
Anaheim, CA 92806
Tel 714.637.4747

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Project Number
122.0076.500

Description
WATER FEATURES
UTILITY CONNECTIONS

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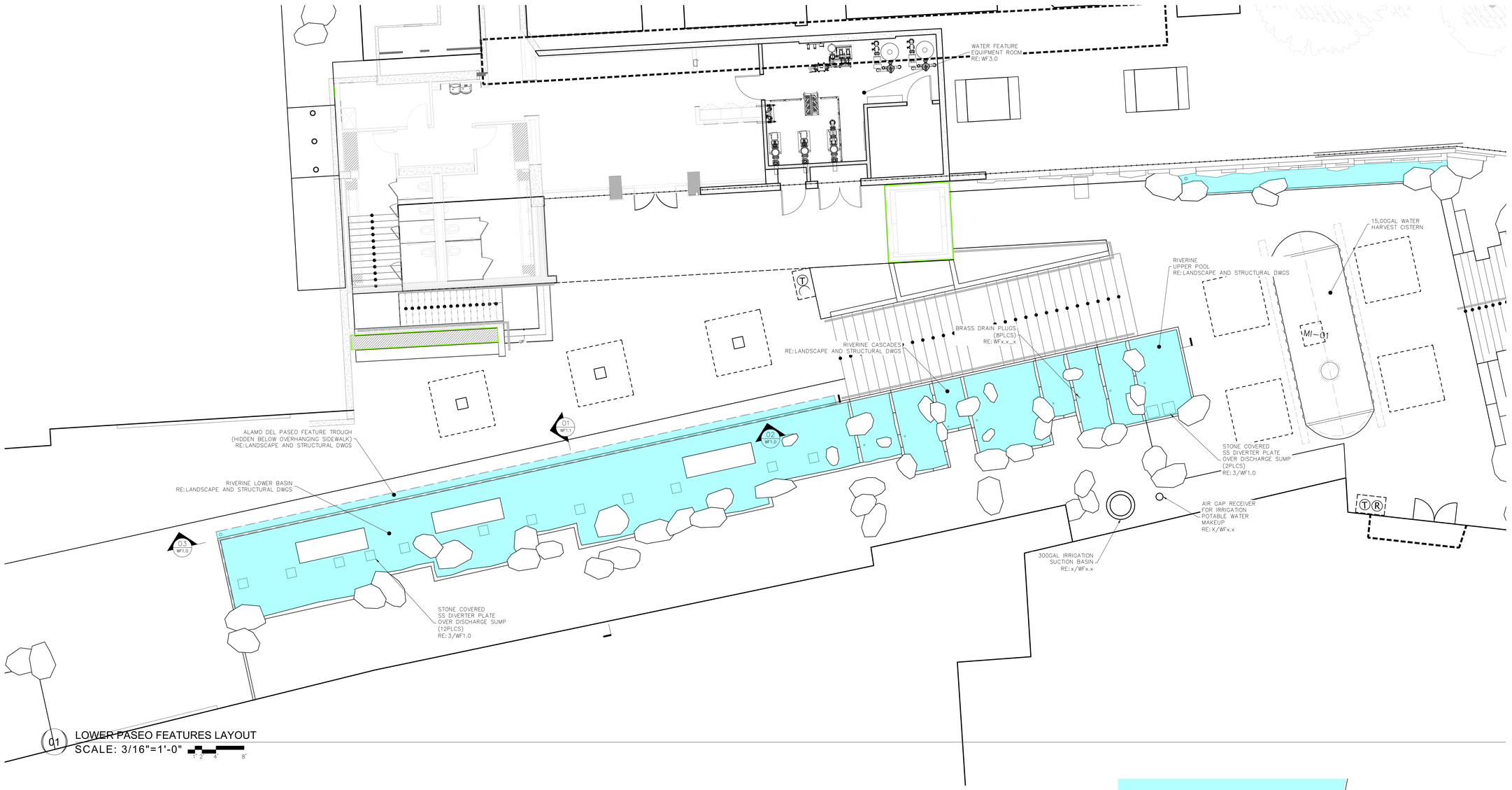
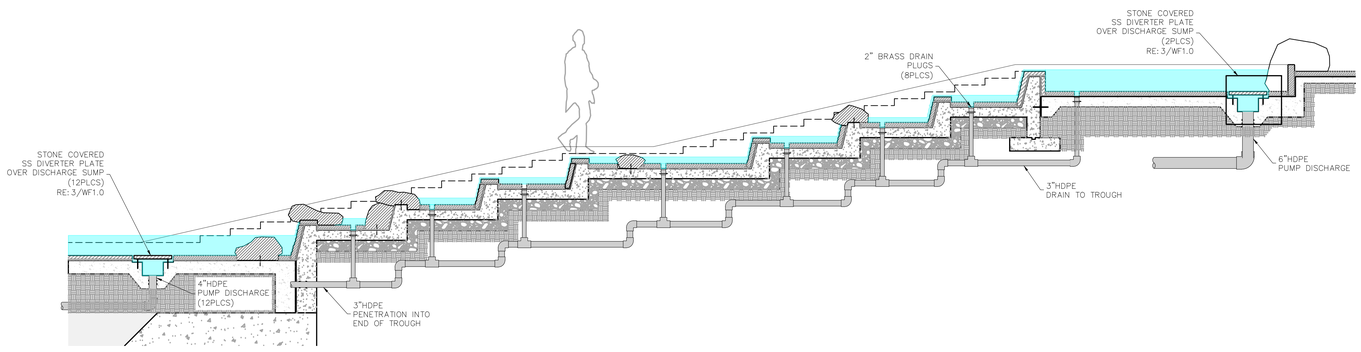
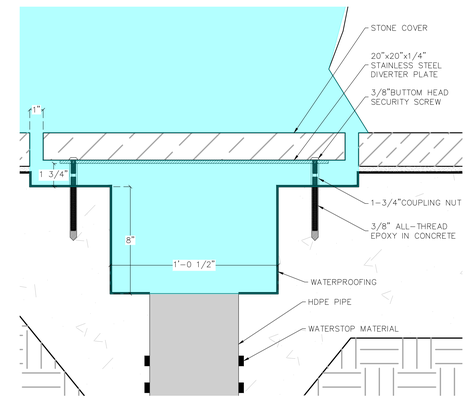


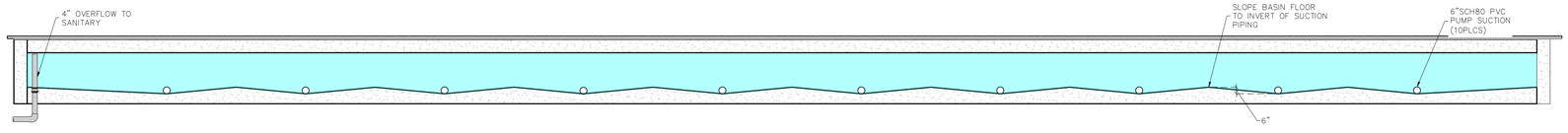
01 LOWER PASEO FEATURES LAYOUT
SCALE: 3/16"=1'-0"



02 RIVERINE FEATURE SECTION - CASCADE
SCALE: 3/8"=1'-0"



03 STONE COVERED DISCHARGE (TYPICAL)
SCALE: 3"=1'



04 RIVERINE FEATURE SECTION - TROUGH
SCALE: 1/4"=1'-0"

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317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

Owner's Rep
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

Landscape Architect
OJB
711 Louisiana Street,
Suite 111
Houston, TX 77002
Tel 713.529.9919

MEP, Lighting, Security, and Acoustics Consultant
ARUP
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.782.2787

Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

Civil Engineer
Parra & Co
110 E. Houston Street, Floor 7
San Antonio, TX 78205
Tel 210.819.4848

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

Water Features
Outside the Lines, Inc.
2150 S. Towne Centre Place
Suite 100
Anaheim, CA 92806
Tel 714.637.4747

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Project Name
ALAMO SITE: AREA 5 - PASEO DEL ALAMO

Project Number
122.0076.500

Description
WATER FEATURES
LAYOUT PLAN & DETAILS

Scale

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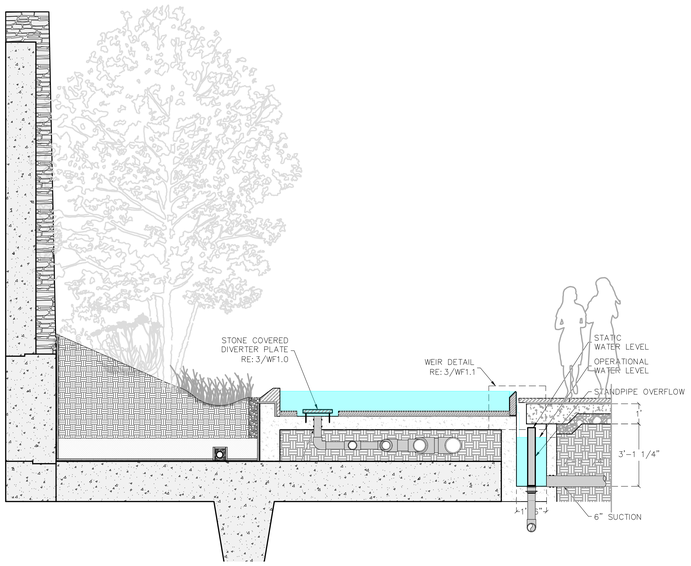
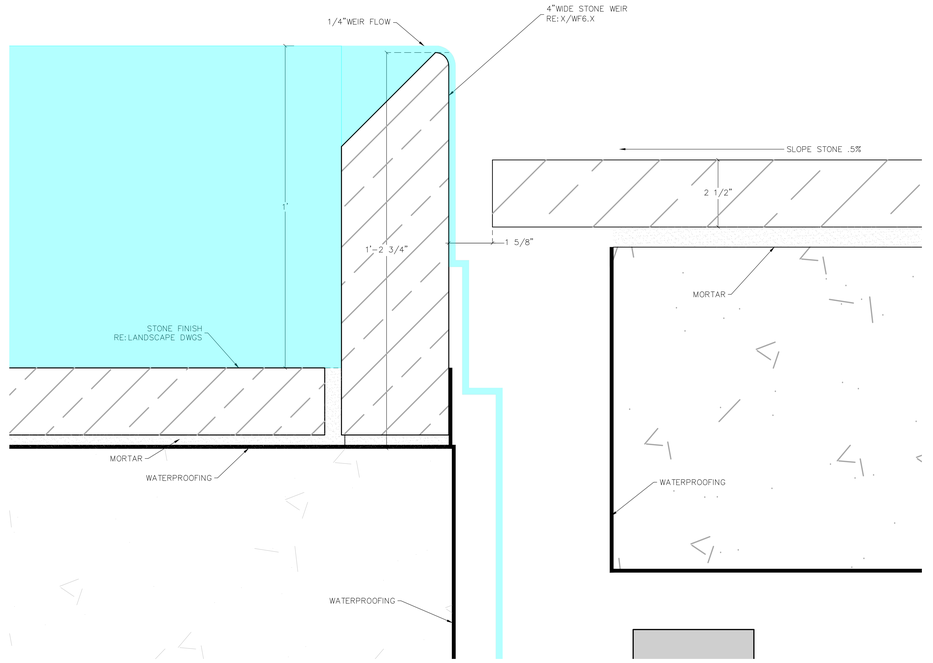


01 RIVERINE FEATURE - LOWER BASIN SECTION
SCALE: 3/8"=1'-0"



02 RIVERINE FEATURE - WEIR DETAIL - STONE
SCALE: 6"=1'

ALAMO TRUST INC.

317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler

229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States

Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

Owner's Rep
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

Landscape Architect
OJB
711 Louisiana Street,
Suite 111
Houston, TX 77002
Tel 713.529.9919

MEP, Lighting, Security, and Acoustics Consultant
ARUP
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.782.2787

Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

Civil Engineer
Parra & Co
110 E. Houston Street, Floor 7
San Antonio, TX 78205
Tel 210.819.4848

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

Water Features
Outside the Lines, Inc.
2150 S. Towne Centre Place
Suite 100
Anaheim, CA 92806
Tel 714.637.4747

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ALAMO SITE: AREA 5 - PASEO DEL ALAMO

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Description
WATER FEATURES DETAILS

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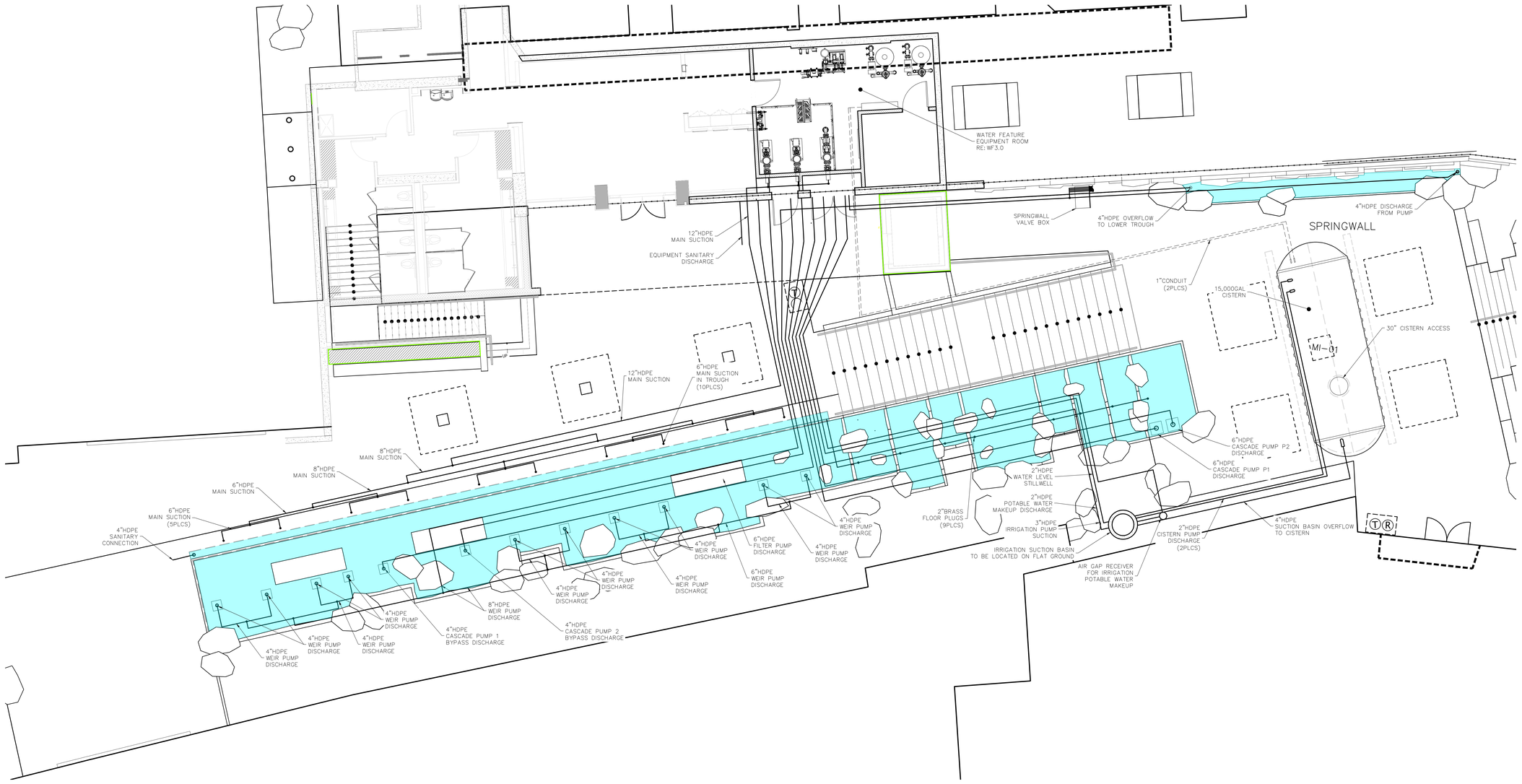

01 PIPE ROUTING
SCALE: 3/16"=1'-0"
1' 2' 4' 8'

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San Antonio, TX 78205

Gensler

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Suite 200
San Antonio, TX 78205
United States

Tel 210.222.8059

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Austin, TX 78701
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Washington, DC 20001
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Houston, TX 77002
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MEP, Lighting, Security, and Acoustics Consultant
ARUP
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.782.2787

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Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

Civil Engineer
Parra & Co
110 E. Houston Street. Floor 7
San Antonio, TX 78205
Tel 210.819.4848

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

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Outside the Lines, Inc.
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Suite 100
Anaheim, CA 92806
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ALAMO SITE: AREA 5 - PASEO DEL ALAMO

Project Number
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Description
WATER FEATURE
PIPE ROUTING

Scale

WF2.0

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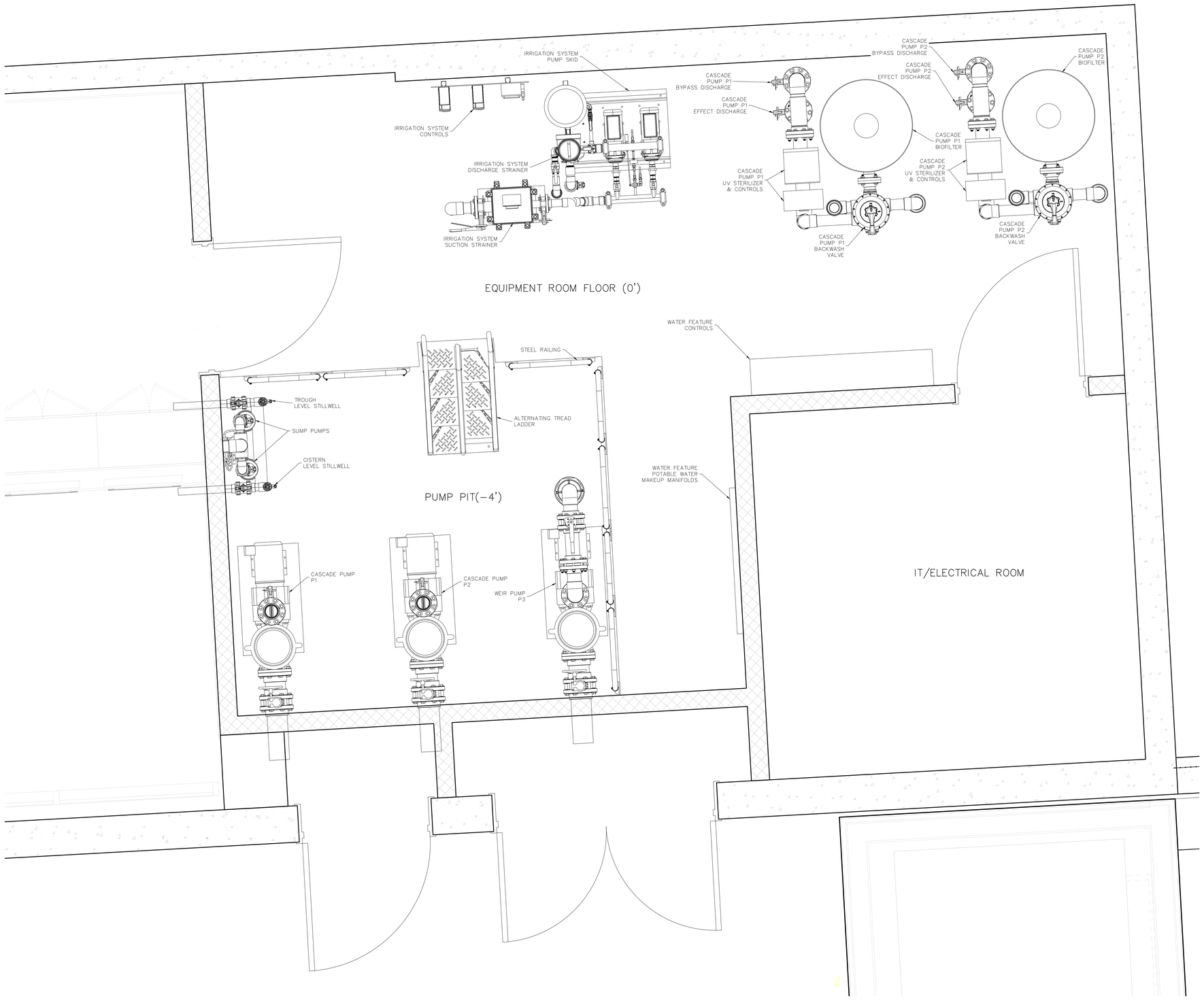

01 PASEO DEL ALAMO WATER FEATURE EQUIPMENT SPACE
SCALE: 1"=1'-0"

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
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Description
WATER FEATURE EQUIPMENT SPACE PLAN

Scale

WF3.0

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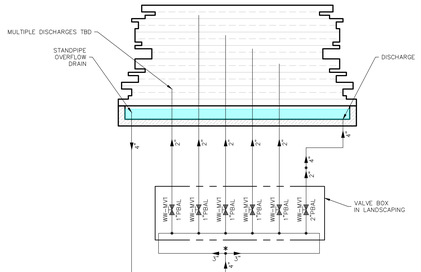
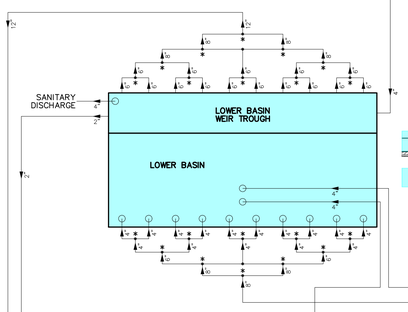
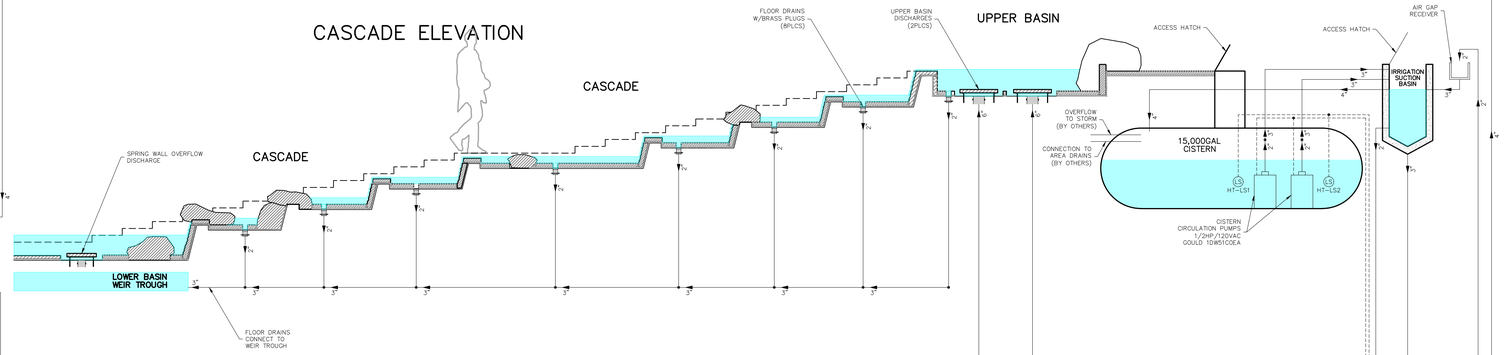
SPRINGWALL ELEVATION



LOWER BASIN PLAN

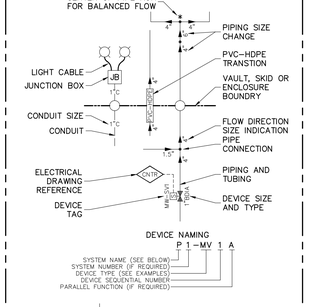


CASCADE ELEVATION



BASIC DRAWING NOTATIONS

NOT ALL SYMBOLS ARE USED ON THIS PROJECT



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ALAMO SITE: AREA 5 - PASEO DEL ALAMO

Project Number

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Description

PIPING & INSTRUMENT DIAGRAM (P&ID)

Scale

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Houston, TX 77002
Tel 713.529.9919

MEP, Lighting, Security, and Acoustics Consultant
ARUP
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.782.2787

Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

Civil Engineer
Parra & Co
110 E. Houston Street. Floor 7
San Antonio, TX 78205
Tel 210.819.4848

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

Water Features
Outside the Lines, Inc.
2150 S. Towne Centre Place
Suite 100
Anaheim, CA 92806
Tel 714.637.4747

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PASEO DEL ALAMO WATER FEATURES - 120-208VAC/3PHASE				
BRKR	**A**	**B**	**C**	**LOAD**
15A	10			CONTROLS
20A		10.3		SUMP PUMP (S1)
20A			10.3	SUMP PUMP (S2)
20A	10.3			HARVEST SUMP PUMP (HS1)
20A		10.3		HARVEST SUMP PUMP (HS2)
50A	19.9			RIVERINE CASCADE PUMP P1 7.5HP/3450RPM PENTAIR EQKT-750
		19.9		
			19.9	
50A	19.9			RIVERINE CASCADE PUMP P2 7.5HP/3450RPM PENTAIR EQKT-750
		19.9		
			19.9	
35A	13.8			RIVERINE WEIR PUMP P3 5HP/3450RPM PENTAIR EQWK-50O
		13.8		
			13.8	
15A	7.8			IRRIGATION PUMP SKID (2 PUMPS - ONE AT A TIME) 2HP/3450RPM GOULD
		7.8		
			7.8	
10A			5	UV STERILIZER - SAG480
10A			5	UV STERILIZER - SAG480
	81.7	**82**	**81.7**	**CURRENT TOTAL**

BONDED/GROUNDING COMPONETS AND NOTES
(PER NEC, OR CURRENT ADOPTED ELECTRICAL CODE)

EQUIPMENT GROUNDING

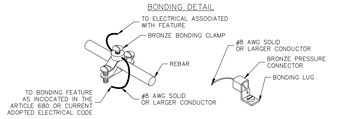
FOUNTAIN GROUNDING

1. CONNECTOR FOR #8 GROUND WIRE & RE-BAR, UL LISTED DIRECT BURIAL IN EARTH OR CONCRETE, BURNDY #C-11d (1/2"-3/4" RE-BAR) ILSCO #CGRC-XX, OR ILSCO #GPL-X, OR GREAVES "JONES" REBAR CLAMP, OR HARGER #BB12A (OR EQUAL). MAKE FOUR RE-BAR CONNECTIONS (MIN.) OF THE GROUND WIRE AROUND THE WATER FEATURE. BONDING CONNECTORS TO METAL SHELL LINED WATER FEATURES SHALL BE BURNDY #GBAC (⅜" BOLT). OR ILSCO #SLU-35DB (#10 BOLT) OR EQUAL, (UL-467 LISTED FOR DIRECT BURIAL IN EARTH OR CONCRETE.)
2. TAP CONNECTOR FOR #8 SOLID TO #8 SOLID GROUND WIRE, UL LISTED FOR DIRECT BURIAL IN EARTH OR CONCRETE, ILSCO #KOB-6, OR BURNDY #KS17-DB, OR EIRCO #GRG046, OR GREVES (OR EQUAL)
3. #8 GROUND WIRE LUG CONNECTOR SUITABLE FOR PURPOSE TO CONNECT FRAMES OF MOTORS, METAL ELEC. EQUIP. ENCLOSURES, & METAL PIPING GREAVES, ILSCO (OR EQUAL).
4. BRANCH CIRCUIT WIRING TO MOTORS, ELECTRICAL CABINETS, CONTROLLERS, BOXES & PANELS SHALL INCLUDE & INSULATED COPPER GROUNDING CONDUCTOR.

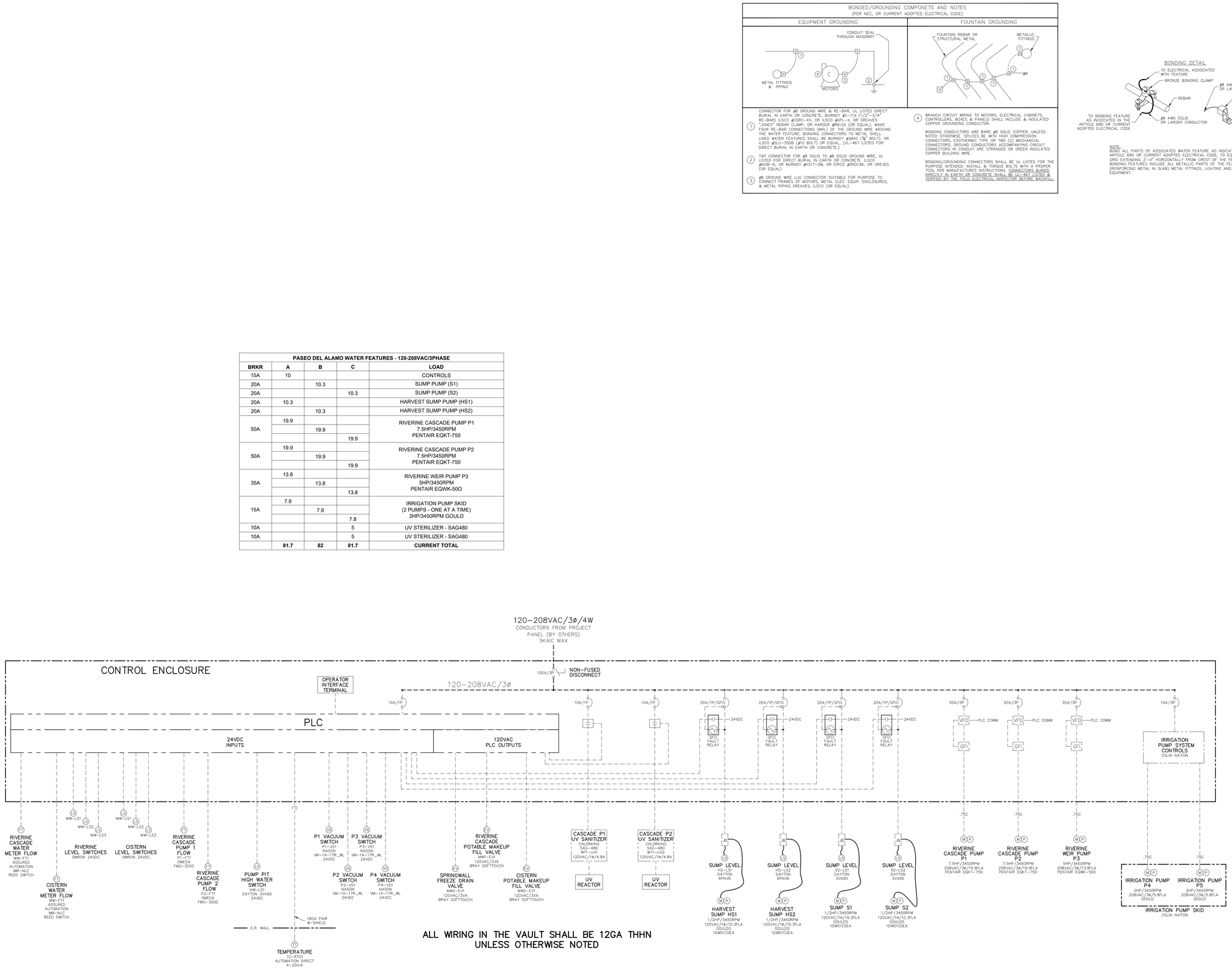
   BONDING CONDUCTORS ARE BARE #8 SOLID COPPER, UNLESS NOTED OTHERWISE. SPLICES BE WITH HIGH COMPRESSION CONNECTORS, EXOTHERMIC TYPE OR TWO (2) MECHANICAL CONNECTORS, GROUND CONDUCTORS ACCOMPANYING CIRCUIT CONNECTORS IN CONDUIT ARE STRANDED OR GREEN INSULATED COPPER BUILDING WIRE.

   BONDING/GROUNDING CONNECTORS SHALL BE UL LISTED FOR THE PURPOSE INTENDED. INSTALL & TORQUE BOLTS WITH A PROPER TOOL PER MANUFACTURES INSTRUCTIONS. CONNECTORS BURIED DIRECTLY IN EARTH OR CONCRETE SHALL BE UL-467 LISTED & VERIFIED BY THE FIELD ELECTRICAL INSPECTOR BEFORE BACKFILL.

BONDING DETAIL



NOTE:
BOND ALL PARTS OF ASSOCIATED WATER FEATURE AS INDICATED IN THE NEC, ARTICLE 680 OR CURRENT ADOPTED ELECTRICAL CODE, TO EQUIPOTENTIAL BONDING GRID EXTENDING 3'-0" HORIZONTALLY FROM CREST OF THE FEATURE. DRAIN BONDING FEATURES INCLUDE ALL METALLIC PARTS OF THE FEATURE SUBSTRUCTURE (REINFORCING METAL IN SLAB) METAL FITTINGS, LIGHTING AND ELECTRICAL EQUIPMENT.



ALL WIRING IN THE VAULT SHALL BE 12GA THHN UNLESS OTHERWISE NOTED

ALAMO TRUST INC.

317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler

229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
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Fax 512.463.5001

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△ Date	Description
05/19/2023	50% SCHEMATIC DESIGN
11/02/2023	100% DESIGN DEVELOPMENT
06/06/2024	50% CONSTRUCTION DOCUMENTS

Project Name
ALAMO SITE: AREA 5 - PASEO DEL ALAMO

Project Number
122.0076.500

Description
WATER FEATURES
ELECTRICAL ONE-LINE (EOL)

Scale

WF5.1

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PASEO DEL ALAMO BILL OF MATERIALS

TAG	QUANTITY	ITEM	DESCRIPTION	MANUFACTURER	SERIES	MODEL
P1	1	DISPLAY PUMP	PUMP, 250GPM@58FH, 7.5HP, 460VAC/3P,TEFC, 6X4; THERMOPLASTIC W/STRAINER BASKET	PENTAIR	EQ	EQKT-750
P2	1	DISPLAY PUMP	PUMP, 250GPM@58FH, 7.5HP, 460VAC/3P,TEFC, 6X4; THERMOPLASTIC W/STRAINER BASKET	PENTAIR	EQ	EQKT-750
P3	1	DISPLAY PUMP	PUMP, 500GPM@23FH, 5HP, 460VAC/3P,TEFC, 6X4; THERMOPLASTIC W/STRAINER BASKET	PENTAIR	EQ	EQWK-500
P1-BF1	1	BIO FILTER	BIO-MECHANICAL FILTER, 167-340 GPM, 3" CONNECTIONS,	AQUA ULTRAVIOLET	ULTIMA II PROFESSIONAL	ULTIMA II SIDE MOUNT - 30,000
P2-BF1	1	BIOFILTER	BIO-MECHANICAL FILTER, 167-340 GPM, 3" CONNECTIONS,	AQUA ULTRAVIOLET	ULTIMA II PROFESSIONAL	ULTIMA II SIDE MOUNT - 30,000
WT1-UV1 WT2-UV1	2	SECONDARY FILTERED WATER STERILIZATION	UV STERILIZER, 350GPM MAX FLOW, 4" FLANGES, 50PSI MAX, 4 LOW PRESSURE BULBS, 316L STAINLESS STEEL CHAMBER, 120VAC@4.8A, 13,000 HR LAMP LIFE, SYSTEM CONTROLLER WITH PRESSURE DETECTION, LAMP INTENESITY MEASUREMENT, ALARM OUTPUT	CHLORKING	SENTRY	SAG-480-A
IS-SS1	1	IRRIGATION STRAINER	SUCTION STRAINER, STAINLESS STEEL,3X2,125GPM,MAX	EVOQUA	PROSTRAINER	P10302SC
-	1	IRRIGATION PUMPS	IRRIGATION PUMP SKID, 25GPM@70PSI, MBX MINIBOOST DUPLEX PUMP SYSTEM, 2 HP/208-230VAC/ 3PH, DUPLEX CONTROL SYSTEM FOR LEAD/LAG 24 HR LEAD SWITCH OPERATION	OSLIN NATION	-	QUOTE: 2023--9-7-10:46
IS-DS1	1	STRAINER, DISCHARGE	STRAINER, STAINLESS STEEL HOUSING AND STRAINER, 100GPM, 125 PSI MAX PRESSURE, 1 PSI MAX HEAD LOSS AT MAXIMUM FLOW, 2" MPT CONNECTIONS	MILLER-LEAMAN	THOMPSON	MLS-2
P1-VS1 P2-VS1 P3-VS1	3	VACUUM SWITCH	VACUUM SWITCH, 1/4"MPT, 17IN Hg, SPST (NO), WIRE LEADS	NASON	-	VM-1A-17R_WL
P1-VG1 P2-VG1 P3-VG1	3	VACUUM GAUGE	VACUUM GAUGE, 30"-30psi, SS body, Cu INTERNAL	MARSH	SERIES 63MM	J7612P
MW1-PG1 MW2-PG1	2	PRESSURE GAUGE	PRESSURE GAUGE, 0-100psi, SS body, Cu INTERNAL, 1/4" MPT	MARSH	J76 SERIES	J7648P
MW1-LS1 MW1-LS2 MW1-LS3 MW2-LS1 MW2-LS2 MW2-LS3	6	WATER LEVEL SENSOR	ELECTROSTATIC CAPACITY METHOD, 8-11 MM DIAMETERS, NPN OPEN-COLLECTOR OUTPUT, 12 TO 24 VDC	OMRON	-	E2K-L13MC1
S1 S2 HT-S1 HT-S1	4	SUMP PUMP	SUMP PUMP, 60GPM@14FH, 120VAC@10.3A, IMPELLER: AISI 304 SS OPEN IMPELLER, DIFFUSER PLATE: AISI 304 SS WITH POLYURETHANE COATING, CASING: AISI 304 SS, SILICON CARBIDE SEAL FACES, ALL METAL COMPONENTS OF AISI TYPE 300 STAINLESS STEEL RUNNING IN PROTECTED OIL CHAMBER	GOULD		1DW51C0EA
P1-FT1 P2-FT1	2	FLOW TRANSMITTER	FLOW TRANSMITTER, MAGNETIC, 12-30VDC, 4-20mA OUTPUT, 11-783GPM, 4" PVC PIPE MOUNTING,	OMEGA	-	FMG3002-PP FP-5340S
MW1-FT1 MW2-FT1	2	TOTALIZING FLOW METER	FLOWMETER, TOTALIZING,2", BRASS, PULSE OUTPUT OPTION	ASSURED AUTOMATION		VM-NLC-200-R/1P
FD-EV1 MW1-EV1 MW2-EV1	1	BALL VALVE, 2", BRASS, MOTORIZED	BALL VALVE, BRASS, MOTOR ACTUATED, SPRING RETURN, 120VAC, 2 WIRE CONTROL, 24-28 SECOND OPENING SPEED, 19-23 SECOND CLOSING SPEED	BRAY	SOFT TOUCH	ST2-2-2-47C/VASU20-27
IS-MV2 IS-MV3	1	2" BUTTERFLY VALVE	BUTTERFLY VALVE, 2", LUG STYLE, CAST IRON BODY, SS STEM, NYLON COATED DUCTILE IRON DISC, LOCKING HANDLE	BRAY	SERIES 31	31-0200-BFA12-119
IS-MV1	1	3" BUTTERFLY VALVE	BUTTERFLY VALVE, 3", LUG STYLE, CAST IRON BODY, SS STEM, NYLON COATED DUCTILE IRON DISC, LOCKING HANDLE	BRAY	SERIES 31	31-0300-BFA12-119
P1-MV2 P1-MV3 P1-MV4 P2-MV2 P2-MV3 P2-MV4 P2-MV5 P3-MV2	8	4" BUTTERFLY VALVE	BUTTERFLY VALVE, 4", LUG STYLE, CAST IRON BODY, SS STEM, NYLON COATED DUCTILE IRON DISC, LOCKING HANDLE	BRAY	SERIES 31	31-0400-BFA12-119
P1-MV1 P2-MV1 P3-MV1	3	6" BUTTERFLY VALVE	BUTTERFLY VALVE, 6", LUG STYLE, CAST IRON BODY, SS STEM, NYLON COATED DUCTILE IRON DISC, LOCKING HANDLE	BRAY	SERIES 31	31-0600-BFA12-119
MW1-MV1 MW2-MV1	2	MANUAL WATER MAKEUP VALVE	BALL VALVE, 2" BRASS, LEVER HANDLE, TWO-PIECE BODY, FULL PORT, BRONZE TRIM, BLOWOUT-PROOF STEM	NIBCO	-	T-580-70
-		FASTENERS	STAINLES STEEL ABOVE AND BELOW GROUND	-	-	-
-		ALL PIPING AND FITTINGS	SCH80 PVC, HDPE, COPPER,BRASS	-	-	AS REQUIRED
-		ALL BURIED CONDUIT	PVC	CARLON	-	AS REQUIRED
-		ALL EQUIPMENT ROOM CONDUIT	AS REQUIRED BY CODE AND ARCHITECT	-	-	AS REQUIRED

GENERAL NOTES

THIS WATER FEATURE IS DESIGNED FOR THE STATED AND INTENDED USE AS A DECORATIVE ARCHITECTURAL WATER FEATURE FOR VIEWING PURPOSES ONLY UNLESS SPECIFICALLY REPRESENTED, IDENTIFIED, OR OTHERWISE SPECIFIED AND DESIGNED AS AN "INTERACTIVE" FOUNTAIN

GENERAL NOTES
THESE DRAWINGS SHOW THE DESIGN INTENT OF THE INSTALLATION AND MUST BE VERIFIED WITH THE WATER FEATURE ENGINEER AND GENERAL CONTRACTOR BEFORE WORK COMMENCES.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL SITE CONDITIONS AND FIELD DIMENSIONS CRITICAL TO THE WATER FEATURE EQUIPMENT INSTALLATION AND PERFORMANCE AND REPORT ANY DISCREPANCIES, IN WRITING, TO THE WATER FEATURE ENGINEER.

THE DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY. IN THE CASE OF CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS, THE CONTRACTOR MUST SUBMIT A REQUEST FOR INFORMATION TO THE WATER FEATURE ENGINEER FOR CLARIFICATION. REFER TO SECTION 13 OF THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR THIS WATER FEATURE.

WRITTEN DIMENSIONS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER SCALED MEASUREMENTS.

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION INSTALLATION MEANS, METHODS, TECHNIQUES, MANUFACTURER'S INSTALLATION GUIDELINES, SEQUENCES, STEPS OR PROCEDURES, OR FOR ANY SAFETY REQUIREMENTS, APPLICABLE CODES, PRECAUTIONS, RULES, REGULATIONS OR PROGRAMS PERTAINING TO THE INSTALLATION OF THIS WATER FEATURE.

SHOP DETAILS MUST BE SUBMITTED TO THE WATER FEATURE ENGINEER FOR APPROVAL FOR ALL FABRICATED COMPONENTS.

REVIEW OF SUBMITTALS IS FOR THE LIMITED PURPOSE OF CHECKING FOR CONFORMANCE WITH INFORMATION GIVEN AND THE DESIGN CONCEPT EXPRESSED IN THE CONTRACT DOCUMENTS. THE REVIEW IS NOT FOR DETERMINING THE ACCURACY OR COMPLETENESS OF OTHER DETAILS SUCH AS DIMENSIONS AND QUANTITIES, OR FOR SUBSTANTIATING INSTRUCTIONS FOR INSTALLATION OR PERFORMANCE OF EQUIPMENT OR SYSTEMS, WHICH REMAINS THE CONTRACTOR'S RESPONSIBILITY. REVIEW SHALL NOT CONSTITUTE APPROVAL OF SAFETY PRECAUTIONS, OR OF CONSTRUCTION MEANS, METHODS, AND TECHNIQUES, SEQUENCES OR PROCEDURES. APPROVAL OF A SPECIFIC ITEM SHALL NOT INDICATE APPROVAL OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT.

ELECTRICAL

ALL ELECTRICAL CONDUITS AND FITINGS SHALL BE PVC UNLESS OTHERWISE INDICATED ON THE DRAWINGS OR REQUIRED BY CODE. PVC PIPING SHALL BE PRIMED AND SOLVENT WELDED ACCORDING TO MANUFACTURES PROCEDURES. CONDUIT WILL BE SOLVENT WELDED USING WELD-ON P-70 PRIMER (CLEAR ABOVE & PURPLE BELOW GROUND) AND 717 SOLVENT CEMENT OR APPROVED EQUIVALENT.

THE INSTALLATION OF ELECTRICAL EQUIPMENT AND WIRING IN WATER CAN PRODUCE EXTREME HAZARDS AND SHALL BE INSTALLED BY A QUALIFIED LICENSED ELECTRICIAN. IT IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO CONSULT AND COMPLY WITH ALL ELECTRICAL CODES AND SAFETY REGULATIONS PRIOR TO INSTALLATION OF ELECTRICAL EQUIPMENT. LOCAL CODES TAKE PRECEDENCE OVER THE GENERAL NOTES WHERE DISCREPANCIES OR CONFLICTS EXIST.

ALL CONDUITS THAT CONNECT DIRECTLY TO THE OUTSIDE OF THE VAULT SHALL ENTER THE CONTROL PANEL AT THE BOTTOM. PVC CONDUIT IS RECOMMENDED, BUT LOCAL CODE MAY REQUIRE METALLIC CONDUIT. DEFER TO LOCAL CODE REQUIREMENTS. DRAINS OR WEEP HOLES SHALL BE USED AT THE LOWEST POINT IN THE CONDUIT RUN (IN THE EQUIPMENT SPACE) TO ALLOW INCIDENTAL WATER IN THE CONDUIT TO DRAIN.

DO NOT INSTALL ANY WATER LINES OR WATER FEATURE PIPING ABOVE THE CONTROL PANEL.

DEVICES WITH POWER CORDS MUST HAVE SUFFICIENT LENGTH TO ALLOW CONVENIENT SERVICE. NO CORD EXPOSED IN AN OPEN BASIN SHALL BE LONGER THAN 9 FEET LONG.

GROUNDING AND BONDING SHALL BE IN COMPLIANCE WITH ARTICLE 250 OF THE NEC AS A MINIMUM. ALL METALLIC PARTS IN OR AROUND POOLS SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH ARTICLE 680 OF THE NEC.

PLUMBING

ALL PIPING SHALL BE SCH80 PVC OR HDPE UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

FATAL SUCTION ENTRAPMENT CAN OCCUR IF THE WATER FEATURE MECHANICAL EQUIPMENT & PIPING IS NOT INSTALLED CORRECTLY AS SHOWN. ALL EQUIPMENT MUST BE SECURELY FASTENED TO SUMPS AND/OR POOL FLOOR AT ALL TIMES DURING OPERATION OF WATER FEATURE SYSTEM.

ALL REDUCING FITTINGS ON THE SUCTION PIPING MUST BE ECCENTRIC TYPE UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

'P' TRAPS SHALL BE INSTALLED ON ANY DRAIN LINE CONNECTED TO A SANITARY SEWER SYSTEM, WHERE AND WHEN REQUIRED BY STATE AND/OR LOCAL PLUMBING CODES, REGARDLESS OF WHETHER SHOWN ON INSTALLATION DRAWINGS.

MAKE ALL SUCTION AND DISCHARGE PIPE RUNS USING THE MOST DIRECT ROUTES POSSIBLE AND USING THE MINIMUM NUMBER OF FITTINGS POSSIBLE. INSTALL ALL LINES, IN ALL CASES, WITH NO LOOPS, TRAPS, OR PLACES THAT TRAP AIR.

FLOWABLE FILL, IF SHOWN ON PLANS, SHALL BE 1-1/2 BAGS CEMENT PER CUBIC YARD OF MATERIAL.

TESTING

THE PIPING SYSTEM SHALL PRESSURE TESTED PRIOR TO BACKFILLING, IN THE PRESENCE OF AUTHORIZED REPRESENTATIVE, FOR DESIGNATED DURATION, PRESSURE LOSS OR LEAKS. REFER TO SPECIFICATIONS FOR ADDITIONAL TESTING REQUIREMENTS.

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
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Fax 512.463.5001

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San Antonio, TX 78205
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Tel 512.828.7434

Landscape Architect
OJB
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Tel 512.478.6001

Water Features
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Suite 100
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Seal / Signature

Date	Description
05/19/2023	50% SCHEMATIC DESIGN
11/02/2023	100% DESIGN DEVELOPMENT
06/06/2024	50% CONSTRUCTION DOCUMENTS

Project Name
ALAMO SITE: AREA 5 - PASEO DEL ALAMO

Project Number
122.0076.500

Description
WATER FEATURES
BILL OF MATERIAL (BOM)

Scale

WF5.2

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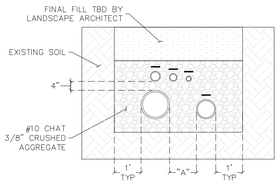
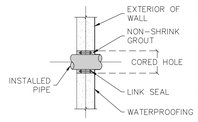
PIPE SIZE (IPS)	DISTANCE BETWEEN PIPES "A"
1"	4"
1-1/4"	4"
1-1/2"	4"
2"	4"
2-1/2"	4"
3"	4"
4"	4"
6"	6"
8"	8"
10"	10"
12"	12"
14"	14"
16"	16"



01 PIPE EMBEDMENT
SCALE: N.T.S.

PIPE SIZE (IPS)	SLEEVE MODEL #	CORED HOLE (INCHES)	LINK SEAL #	LINKS PER SEAL
1/2"	CS-2	2"	LS-200	4
3/4"	CS-3	3"	LS-315	4
1"	CS-3	3"	LS-300	4
1-1/4"	CS-3	3"	LS-275	8
1-1/2"	CS-3½	4"	LS-315	6
2"	CS-4	4"	LS-300	6
2-1/2"	CS-4	4"	LS-200	9
3"	CS-5	5"	LS-300	8
4"	CS-6	6"	LS-300	10
6"	CS-10	10"	LS-475	10
8"	CS-12	12"	LS-475	12
10"	CS-14	14"	LS-475	14
12"	CS-16	16"	LS-475	17
14"	CS-16	18"	LS-575	16
16"	CS-20	24"	LS-575	18



02 LINK SEAL INSTALLATION
SCALE: N.T.S.

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06/06/2024	50% CONSTRUCTION DOCUMENTS

Project Name
ALAMO SITE: AREA 5 - PASEO DEL ALAMO

Project Number
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Description
STANDARD DETAILS

Scale

WF6.0

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TYPICAL STRUCTURAL ABBREVIATIONS

ALL ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED

A		
ABOVE FINISH FLOOR	—	AFF
ADDITIONAL	—	ADDN'L
ADJACENT	—	ADJ.
AGGREGATE	—	AGGR.
ALTERNATE	—	ALT.
ANCHOR BOLT	—	A.B.
AND	—	&
ANGLE	—	L.
APPROVED	—	APPD.
APPROXIMATE	—	APPROX.
ARCHITECT	—	ARCH.
ARCHITECTURAL	—	ARCH'L.
ARCH'L. FINISH SURFACE	—	A.F.S.
AT	—	@
AIR CONDITONER	—	A/C
AIR HANDLING UNIT	—	AHU
B		
BACK FACE	—	B.F.
BACK TO BACK	—	B. TO B.
BASEMENT	—	BSMT.
BEAM	—	BM.
BEARING	—	BRG.
BELOW FINISH FLOOR	—	BFF
BETWEEN	—	BTWN.
BEVEL (ED)	—	BEV'(D)
BLOCK	—	BLK.
BLOCKING	—	BLKG.
BLOCK-OUT	—	B.O.
BOTTOM	—	BOT.
BRACKET	—	BRKT.
BRICK LEDGE ELEVATION	—	B.L.E.
BRIDGING	—	BRDG.
BUILDING	—	BLDG.
BUILDING LINE	—	B.L.
C		
CANTILEVER	—	CANT.
CAST IRON	—	C.I.
CAST-IN-PLACE	—	C.I.P.
CEILING	—	CLG.
CENTER LINE	—	C.L.
CENTER OF GRAVITY	—	C.G.
CENTER TO CENTER	—	C. TO C.
CHANNEL	—	C
CLEAR OR CLEARANCE	—	CLR.
COLUMN	—	COL.
COMPRESSION	—	C OR COMP.
CONCRETE	—	CONC.
CONCRETE MASONRY UNIT	—	CMU
CONNECTION (S)	—	CONN(S).
CONTINUOUS	—	CONT.
CONTRACTOR	—	CONTR.
CONTROL JOINT	—	CT.J.
CONSTRUCTION	—	CONST.
CONSTRUCTION JOINT	—	C.J.
CORNER	—	COR.
COVER PLATE	—	COV. PL.
D		
DETAIL	—	DET.
DEAD LOAD	—	DL.
DEFORMED BAR ANCHOR	—	D.B.A.
DIAGONAL	—	DIAG.
DIAMETER	—	DIA.
DIMENSION(S)	—	DIM(S).
DOVETAIL	—	DVTL.
DOWNSPOUT	—	DS.
DRAWING(S)	—	DWG(S).
DOUBLE	—	DBL.
DOWEL(S)	—	DWL(S).
E		
EACH	—	EA.
EACH FACE	—	E.F.
EACH WAY	—	E.W.
EDGE ANGLE OFFSET	—	E.A.O.
ELECTRICAL	—	ELEC.
ELEVATION	—	EL.
ELEVATOR	—	ELEV.
ENGINEER	—	ENGR.
ENTRANCE	—	ENT.
EQUAL	—	EQ.
EQUIPMENT	—	EQUIP.
EXPANSION	—	EXP.
EXPANSION JOINT	—	E.J.
EXISTING	—	EXIST.
EXTERIOR	—	EXT.
EXTRA STRONG	—	X-STR.
F		
FACE TO FACE	—	F. TO F.
FABRICATOR	—	FABR.
FAR SIDE	—	F.S.
FIELD VERIFY	—	(F.V.)
FINISH(ED)	—	FIN.
FINISHED FLOOR	—	FIN. FL.
FIREPROOF(ING)	—	FP.
FLANGE	—	FLG.
FLOOR	—	FL.
FLOOR DRAIN	—	F.D.
FOUNDATION	—	FDN.
G		
GAGE OR GAUGE	—	GA.
GALVANIZED	—	GALV.
GALVANIZED IRON	—	G.I.
GALVANIZED STEEL	—	G.S.
GENERAL CONTRACTOR	—	G.C. GEN. CONTR.
GOVERNMENT	—	GOVT.
GRADE	—	GR.
GRADE BEAM	—	GR. BM.
H		
HEADED STUDS	—	H.S.
HEIGHT	—	HT.
HIGH POINT	—	H.P.
HOLLOW STRUCTURAL SHAPE	—	HSS
HORIZONTAL	—	HORIZ.
HOOK	—	HK.
I		
INFORMATION	—	INFO.
INSIDE DIAMETER	—	I.D.
INSIDE FACE	—	I.F.
INTERIOR	—	INT.
INTERMEDIATE	—	INTERM.
J		
JOINT(S)	—	JT(S).
JOIST(S)	—	JST(S).

K		
KIPS (1000 LBS)	—	k
KIP PER LINEAR FOOT	—	KLF
KIP PER SQUARE FOOT	—	KSF
L		
LIGHTWEIGHT CONCRETE	—	LWT. CONC.
LIVE LOAD	—	LL
LONGITUDINAL	—	LONG.
LONG LEG HORIZONTAL	—	LLH
LONG LEG VERTICAL	—	LLV
LONG SIDE HORIZONTAL	—	LSH
LONG SIDE VERTICAL	—	LSV
LOW POINT	—	L.P.
M		
MANUFACTURE(R)	—	MFR.
MASONRY OPENING	—	M.O.
MATERIAL	—	MAT.
MAXIMUM	—	MAX.
MECHANICAL	—	MECH.
MEZZANINE	—	MEZZ.
MIDDLE	—	MID.
MINIMUM	—	MIN.
MISCELLANEOUS	—	MISC.
MOMENT	—	M
MOMENT CONNECTION(S)	—	M.C. OR
N		
NEAR FACE	—	N.F.
NOMINAL	—	NOM.
NON-SHRINK	—	N.S.
NOT IN CONTRACT	—	N.I.C.
NOT TO SCALE	—	N.T.S.
NUMBER	—	NO. OR #
O		
ON CENTER	—	O.C.
OPENING(S)	—	OPNG(S).
OPPOSITE	—	OPP.
OPPOSITE HAND	—	O.H.
OUTSIDE FACE	—	O.F.
OUTSIDE DIAMETER	—	O.D.
OUTSTANDING	—	OSTG.
P		
PAN	—	P
PARALLEL	—	PAR.
PARTITION	—	PARTN.
PENETRATION	—	PEN.
PERPENDICULAR	—	PERP.
PIECE	—	PC.
PLATE	—	PL.
POINT	—	PT.
POUNDS PER SQUARE FOOT	—	P.S.F.
POUNDS PER SQUARE INCH	—	P.S.I.
PRECAST CONCRETE	—	P/C
PRE-ENGINEERED BUILDING MANUFACTURER	—	PEBM
PRE-ENGINEERED METAL BUILDING	—	PEMB
PREFABRICATED	—	PREFAB.
PRELIMINARY	—	PRELIM.
PROJECTION	—	PROJ.
R		
RADIUS	—	R
REINFORCED CONCRETE PIPE	—	RCP
REINFORCE(ING) (ED) (MENT)	—	REINF.
REMAINDER	—	REM. OR `R
REQUIRE	—	REQ.
RETENTION SYSTEM	—	RET. SYS.
REQUIRED	—	REQ'D.
RISER	—	RIS.
ROOF	—	RF.
ROOF DRAIN	—	R.D.
ROOF OPENING	—	RF. OPNG.
ROOM	—	RM.
ROUND	—	RND.
S		
SCHEDULE(D)	—	SCHED.
SECTION	—	SECT.
SHEAR	—	V
SHEET	—	SHT.
SIDEWALK	—	SW.
SIMILAR	—	SIM.
SPACE	—	SPA.
SPECIFICATION(S)	—	SPEC(S)
SPECIFIED	—	SPEC'D.
SQUARE FOOT (FEET)	—	S.F.
STANDARD	—	STD.
STEEL	—	STL.
STIFFENER	—	STIFF.
STRAIGHT	—	STR.
STIRRUPS	—	STIR.
STRUCTURE	—	STRUCT.
STRUCTURAL	—	STRUCT'L.
SYMMETRICAL	—	SYM.
SUBCONTRACTOR	—	SUBCONTR.
SUPPORT(S)	—	SUPT(S).
T		
TAPERED BEAM	—	T.B.
TEMPERATURE	—	TEMP.
TENSION	—	T
TERRAZZO	—	TERR.
THICK	—	THK.
TONGUE & GROOVE	—	T & G
TOP AND BOTTOM	—	T & B
TOP OF	—	T.O.
TOP OF BEAM	—	T.O.B.
TOP OF FOOTING	—	T.O.F.
TOP OF PIER	—	T.O.P.
TOP OF PIER CAP	—	T.O.P.C.
TOP OF RETAINING WALL	—	T.R.W.
TOP OF STEEL	—	T.O.S.
TOP OF STRUCTURAL CONCRETE	—	T.O.S.C.
TOP OF WALL	—	T.O.W.
TREAD	—	TR.
TUBE STEEL	—	TS
TYPICAL	—	TYP.
U		
UNLESS NOTED OTHERWISE	—	U.N.O.
V		
VERTICAL	—	VERT.
W		
WATERSTOP	—	WS.
WATERPROOFING	—	WPFG.
WELDED WIRE MESH	—	W.W.M.
WIND BRACE	—	WB
WIND LOAD	—	W.L.
WINDOW	—	WDW.
WITH	—	W/
WORK POINT	—	W.P.
WOOD	—	WD.
WROUGHT IRON	—	W.I.

TYPICAL SYMBOLS LEGEND

WB-1 — INDICATES WIND BRACE - SEE WIND BRACE ELEVATIONS.

TRUSS — INDICATES TRUSS - SEE TRUSS ELEVATIONS.

INDICATES MOMENT CONNECTION - SEE MOMENT CONNECTION DETAILS.

INDICATES STEEL BEAM SPLICE - SEE STRUCTURAL STEEL SIMPLE BEAM CONNECTION DETAILS SBX-1.

INDICATES STRUCTURE OVER VOID - SEE EXPANSIVE CLAY SOIL DETAILS CES-1.

INDICATES THAT COLUMN STARTS UPWARD FROM THIS LEVEL.

INDICATES THAT COLUMN STOPS AT THIS LEVEL.

STRUCTURAL SYMBOLS

THE FOLLOWING SYMBOLS ARE USED TO REPRESENT THE MATERIALS SHOWN ON THE STRUCTURAL DRAWINGS. SEE SPECIFICATIONS AND GENERAL NOTES FOR MATERIAL QUALITIES REQUIRED.

A.F.S. — ARCHITECTURAL FINISHED SURFACE

CAST-IN-PLACE CONCRETE

CAST-IN-PLACE CONCRETE CUT IN PLAN

STRUCTURAL PRECAST CONCRETE

SAND GRAVEL, OR LOW P.I. FILL

EARTH

ROCK

ARCHITECTURAL PRECAST CONCRETE

NON-SHRINK GROUT

SAND CEMENT GROUT

DEMOLITION

EXISTING

C.M.U.

BRICK

STRUCTURAL STEEL

WOOD (CONTINUOUS)

WOOD (NON-CONTINUOUS)

PLYWOOD

GLUE LAMINATED LUMBER (GLU-LAM)

MICRO LAMINATED LUMBER (MICRO-LAM)

RTU — ROOF TOP MECHANICAL UNIT ON PLAN

BEAM BOTTOM CHORD BRACING ON PLAN

TYPICAL PLAN NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR ACTUAL SEA LEVEL ELEVATION RELATED TO DATUM ELEVATION = 100'-0" SHOWN ON DRAWINGS.
   - SEE PLAN FOR TOP OF STRUCTURAL CONCRETE (T.O.S.C.) ELEVATION.
   - T.O.S. EL. = BOTTOM OF METAL DECK ELEVATION SEE PLAN FOR TOP OF STEEL (T.O.S.) ELEVATION.
   - T.O. WOOD EL. = TOP OF PLYWOOD DECK / TONGUE & GROOVE DECK ELEVATION. SEE PLAN FOR TOP OF WOOD ELEVATION.
2. SHEET INDEX:
   THE DETAILS IN THE DRAWINGS, INCLUDING THOSE DRAWINGS REFERENCED BY THIS INDEX, WHICH ARE DESIGNATED AS TYPICAL DETAILS", APPLY GENERALLY TO THE CONSTRUCTION IN ALL AREAS WHERE THE CONDITIONS ARE SIMILAR TO THOSE DESCRIBED IN THE DETAILS, REGARDLESS OF WHETHER OR NOT THE DETAILS ARE SPECIFICALLY REFERENCED IN THE DRAWINGS.

SHEET LIST (Current Revision)

SHT. NO.	SHEET NAME	ISSUE DATE	Current Revision	Current Revision Date
S1.01	TYPICAL ABBREVIATIONS, SYMBOLS AND PLAN NOTES	06/06/2024	4	01/05/2024
S2.01	DEMO SITE PLAN	06/06/2024	4	01/05/2024
S2.01B	PHASE 2 DEMO	01/05/2024		
S3.10	DEMOLITION DETAILS	06/06/2024	4	01/05/2024
S3.21	CONCRETE SECTIONS - RESTROOM AREA	06/06/2024		

3. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF FLOOR DROPS, FLOOR SLOPES, CURBS, MISCELLANEOUS ELEVATIONS, DETAILS AND DIMENSIONS NOT SHOWN ON PLAN.
4. C1 — COLUMN MARK, SEE SCHEDULE; W10X33, BP-1 — STEEL COLUMN SIZE, SEE PLAN; P1 1D/S3.01 — BASE PLATE TYPE, SEE SCHEDULE; TOP OF PIER DETAIL / PIER TYPE, SEE PIER SCHEDULE

   CENTERLINE OF PIERS NOT SPECIFICALLY LOCATED ON PLAN BY NOTE OR DIMENSION SHALL BE LOCATED ACCORDING TO THE FOLLOWING INFORMATION, U.N.O.:
   - A. FREESTANDING COLUMNS: CENTERLINE OF THE COLUMN
   - B. GRADE BEAMS AND WALLS: CENTERLINE OF THE GRADE BEAM OR WALL IN ONE DIRECTION, GRID OR AS NOTED IN THE OTHER DIRECTION. AT CORNER CONDITIONS, CENTERLINES OF INTERSECTING GRADE BEAMS OR WALLS.
   - C. COLUMNS EMBEDDED IN GRADE BEAMS OR WALLS (PILASTERS): CENTERLINE OF THE COLUMN, U.N.O.
5. SEE ARCH'L. DWGS. FOR SIZES & LOCATIONS OF ROOF OPENINGS.
6. REPETITIVE MEMBERS SUCH AS PURLINS AND JOISTS SHALL BE EQUALLY SPACED BETWEEN DIMENSIONED POINTS, U.N.O.
7. JOIST BRIDGING NOT SHOWN FOR CLARITY. SEE GENERAL NOTE FOR JOIST BRIDGING REQUIREMENTS.
8. NON-STANDARD JOISTS ARE DENOTED THUS:

   20K3 SP — DEPTH; JOIST TYPE; SECTION NUMBER — DESIGNATES SPECIAL STEEL JOIST WITH ADDITIONAL DESIGN LOADS BEYOND THE NOTED OR TABULATED UNIFORM LOAD VALUES (SHOWN EITHER ON PLAN OR IN REFERENCED DETAIL)

   OR:

   20K SP (270 / 120) — DEPTH; JOIST TYPE; SERVICE LEVEL UNIFORM DESIGN LOADS (TOTAL / LIVE)
9. WHERE RTU'S ARE INDICATED ON PLAN AS SHOWN AT RIGHT, JOIST MANUFACTURER SHALL DESIGN JOISTS TO SUPPORT THE WEIGHT OF THE RTU's IN ADDITION TO THE JOISTS' SPECIFIED (OR TABULATED) DISTRIBUTED LOADS :

   DISTRIBUTE WEIGHT OF RTU'S TO EACH JOIST WHICH THE UNIT OVERLAPS AS FOLLOWS:
   - * FOR 2 JOISTS - 70% OF WEIGHT TO EACH JOIST.
   - * FOR 3 JOISTS - 40% OF WEIGHT TO EACH JOIST. 50% TO CENTER JOIST.
   - * FOR 4 JOISTS - 30% OF WEIGHT TO EACH JOIST.
   - * FOR 5 JOISTS - 30% OF WEIGHT TO EACH JOIST.
   - * FOR 6 JOISTS - 30% OF WEIGHT TO EACH JOIST.

   FOR JOISTS LESS THAN HALF A JOIST SPACE AWAY FROM THE RTU - 50% OF WEIGHT.

   FOR CONDITION SHOWN AT RIGHT, DISTRIBUTE WEIGHT AS SHOWN:

   RTU 1700# — 60% 60% 30%
10. NOTE TO CONTRACTOR:
    FIELD VERIFY ALL EXISTING DIMENSIONS & ELEVATIONS PRIOR TO FABRICATION OF MATERIALS AND CONSTRUCTION.

GENERAL NOTES

THE FOLLOWING GENERAL NOTES CONSTITUTE A MAJOR PART OF THE PLANS AND SPECIFICATIONS. STRICT COMPLIANCE WITH THESE NOTES IS ESSENTIAL TO THE PROPER CONSTRUCTION OF THE BUILDING.

1. REFER TO THE PLAN NOTES, LOCATED IN THESE GENERAL NOTES, FOR APPLICATION OF DETAILS WHICH ARE DESIGNATED AS "TYPICAL DETAILS" IN THIS SET OF DRAWINGS.
2. SLEEVES AND BLOCKOUTS REQUIRED FOR PASSAGE OF DUCTWORK, PIPING, DRAINS, CONDUIT, ETC., AND ANCHORS REQUIRED FOR ANCHORING EQUIPMENT AND PIPING ARE NOT GENERALLY INDICATED ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL DETERMINE SUCH REQUIREMENTS FROM OTHER SERIES DRAWINGS, SUBCONTRACTORS, AND SUPPLIERS AND SHALL COORDINATE THE LOCATIONS AND DETAILS FOR THESE ITEMS PRIOR TO FABRICATION OR CONSTRUCTION OF THE STRUCTURE. ANY CONFLICTS BETWEEN THESE ITEMS AND THE BUILDING STRUCTURE SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR RESOLUTION.
3. VERIFY, OR ESTABLISH, LOCATIONS AND DIMENSIONS OF ALL FRAMED OPENINGS RELATED TO EQUIPMENT OR DUCTWORK, INCLUDING INSULATION, IF ANY. WHERE SUBSTANTIAL RELOCATION OR RECONFIGURATION IS REQUIRED, SUBMIT A DRAWING TO THE ARCHITECT FOR REVIEW.
4. LOCATE EXISTING REINFORCEMENT, USING APPROPRIATE IMAGING EQUIPMENT, PRIOR TO CUTTING OR DRILLING INTO EXISTING CONCRETE. DO NOT CUT OR DAMAGE EXISTING REINFORCEMENT. IF THE REQUIRED OPERATIONS MAKE DAMAGING EXISTING REINFORCING UNAVOIDABLE, INFORM ARCHITECT SO THAT THE CONDITION MAY BE EVALUATED AND ALTERNATIVE DIRECTIONS GIVEN.
5. MATERIALS OR PRODUCTS SUBMITTED FOR APPROVAL WHICH ARE NOT AS SPECIFIED IN THE DOCUMENTS SHALL BE ACCOMPANIED BY A CURRENT ES REPORT (BY ICC EVALUATION SERVICE, INC.) MATERIALS OR PRODUCTS THAT DO NOT HAVE AN ES REPORT INDICATING THE SUBSTITUTED MATERIAL OR PRODUCT TO BE EQUAL TO THAT SPECIFIED, WILL NOT BE CONSIDERED.

DESIGN LOADS

1. DEAD LOADS INCLUDE THE WEIGHT OF THE STRUCTURAL COMPONENTS AND ALLOWANCES FOR PERMANENT PARTITIONS, PERMANENT FIXTURES, FINISHES, ROOFING, MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION MATERIALS SHOWN OR SPECIFIED.
2. LOADINGS FOR MECHANICAL ROOMS ARE BASED ON THE WEIGHTS OF ASSUMED EQUIPMENT, AS INDICATED ON THE MECHANICAL DRAWINGS (INCLUDING THE WEIGHT OF CONCRETE PADS, WHERE INDICATED). ANY CHANGES IN TYPE, SIZE, LOCATION OR NUMBER OF PIECES OF EQUIPMENT SHOULD BE REPORTED TO THE ARCHITECT FOR VERIFICATION OF THE ADEQUACY OF SUPPORTING MEMBERS PRIOR TO THE PLACEMENT OF SUCH EQUIPMENT.
3. DESIGN LIVE LOADING IS AS FOLLOWS:
   - ROOF ..... 20 PSF
   - ALL SLABS-ON-GRADE ..... 100 PSF
   - PUBLIC ASSEMBLY AREAS (LIVE LOAD NOT REDUCIBLE):
     - PLAZAS AND TERRACES ..... 100 PSF
4. LIVE LOAD REDUCTIONS, WHERE PERMISSIBLE, ARE COMPUTED IN ACCORDANCE WITH THE BUILDING CODE.
6. DESIGN WIND LOADING IS AS FOLLOWS (NOTE: PER ASCE 7-10, WIND LOADS ARE ULTIMATE. SERVICE LOADS MAY BE OBTAINED BY DIVIDING THE STATED LOADS BY 1.6.):
   - WIND DESIGN OPTION ..... ENVELOPE PROCEDURE
   - BASIC WIND SPEED (3-SECOND GUST) ..... 115 MPH
   - RISK CATEGORY III
   - EXPOSURE CATEGORY ..... B
   - INTERNAL PRESSURE COEFFICIENT 0.18
   - ROOF PRESSURE(+)/ SUCTION(-) LOADS (NET – INCLUDING INTERNAL PRESSURE – LOADS MAY BE LINEARLY INTERPOLATED BETWEEN VALUES FOR THE GIVEN TRIBUTARY AREAS)
     - INTERIOR ZONES – MORE THAN 14' FROM EDGE, HIP, OR RIDGE (ZONE 1)
       - (10 SQ.FT. OF TRIBUTARY AREA) ..... +15.53 / -38.17 PSF
       - (100 SQ.FT. OF TRIBUTARY AREA) ..... +12.29 / -34.94 PSF
     - END ZONES - WITHIN 14' OF EDGE, HIP, OR RIDGE (ZONE 2)
       - (10 SQ.FT. OF TRIBUTARY AREA) ..... +15.53 / -64.05 PSF
       - (100 SQ.FT. OF TRIBUTARY AREA) ..... +12.29 / -41.41 PSF
     - CORNER ZONES - WHERE ZONE 2 AREAS OVERLAP (ZONE 3)
       - (10 SQ.FT. OF TRIBUTARY AREA) ..... +15.53 / -96.40 PSF
       - (100 SQ.FT. OF TRIBUTARY AREA) ..... +12.29 / -41.41 PSF
     - ON CANOPIES AND OVERHANGS
       - ENDS (ZONE 2) (10 SQ.FT. OF TRIBUTARY AREA) ..... +18.76 / -54.99 PSF
       - (100 SQ.FT. OF TRIBUTARY AREA) ..... +12.29 / -51.76 PSF
       - CORNERS (ZONE 3) (10 SQ.FT. OF TRIBUTARY AREA) ..... +18.76 / -90.58 PSF
       - (100 SQ.FT. OF TRIBUTARY AREA) ..... +12.29 / -25.88 PSF
   - CURTAINWALL DESIGN PRESSURE/SUCTION
     - INTERIOR ZONE (ZONE 4) (10 SQ.FT. OF TRIBUTARY AREA) ..... +34.94 / -37.85 PSF
     - (100 SQ.FT. OF TRIBUTARY AREA) ..... +26.20 / -29.11 PSF
     - EXTERIOR ZONE (ZONE 5) (10 SQ.FT. OF TRIBUTARY AREA) ..... +34.94 / -46.58 PSF
     - (100 SQ.FT. OF TRIBUTARY AREA) ..... +26.20 / -29.11 PSF
   - RELIABLE ROOF DEAD LOAD TO RESIST WIND UPLIFT ..... 0 PSF
   - INTERIOR PRESSURE ON STRUCTURAL ELEMENTS ..... 5 PSF
7. SEISMIC DESIGN DATA (IBC):
   - RISK CATEGORY III
   - MAPPED SPECTRAL RESPONSE ACCELERATIONS, SS & S1 ..... <0.11/0.03>
   - SITE CLASS ..... <C>
   - SPECTRAL RESPONSE COEFFICIENTS SDS /SD1 ..... <0.09/0.03>
   - SEISMIC DESIGN CATEGORY ..... <A>
   - BASIC SEISMIC-FORCE-RESISTING SYSTEM ..... ORDINARY CONCRETE SHEAR WALLS
   - DESIGN BASE SHEAR ..... <215K>
   - SEISMIC RESPONSE COEFFICIENT, CS ..... <0.010>
   - RESPONSE MODIFICATION FACTOR, R ..... <1.5>
   - ANALYSIS PROCEDURE USED ..... <EQUIVALENT LATERAL FORCE>
   - DEFLECTION AMPLIFICATION FACTOR ..... <3>
8. SNOW LOADING (ASCE 7, SECTION 7):
   - GROUND SNOW LOAD ..... 5 PSF
10. STACKS OF MATERIALS OR OTHER CONSTRUCTION LOADS PLACED ON THE STRUCTURE SHALL NOT EXCEED THE STATED DESIGN LIVE LOAD FOR THE AREA AFFECTED UNLESS ADEQUATELY SHORED.

CODES & DESIGNS SPECIFICATIONS

1. BUILDING CODE: 2021 INTERNATIONAL BUILDING CODE.
2. STRUCTURAL STEEL: AISC 360-16 "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS" AND AISC 341-16 "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS."
3. STRUCTURAL CONCRETE: "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-14)," THE AMERICAN CONCRETE INSTITUTE.
4. STRUCTURAL MASONRY: "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (TMS 402-16)," THE MASONRY SOCIETY.

DEFERRED SUBMITTALS

1. DEFERRED SUBMITTALS TO BE REVIEWED BY DATUM ENGINEERS, INC. FOLLOWED BY STRUCTURAL OBSERVATIONS AND/OR DIRECTIONS FOR SPECIAL INSPECTIONS DURING CONSTRUCTION:
   - NONE
2. DEFERRED SUBMITTALS WHICH WILL NOT BE REVIEWED BY DATUM ENGINEERS, INC.
   - NONE

EXISTING CONDITIONS

1. FIELD VERIFY ALL RELEVANT DIMENSIONS AND CONDITIONS AT EXISTING STRUCTURES PRIOR TO STARTING SHOP DRAWINGS AND THE CONSTRUCTION PROCESS IN THOSE AREAS. SUBMIT APPROPRIATE PLANS AND DETAILS REFLECTING THE FIELD VERIFIED EXISTING CONDITIONS FOR THE ARCHITECT'S USE.
2. EXISTING CONDITIONS WHICH REQUIRE MODIFICATIONS TO THE DESIGN OF THE PROPOSED CONSTRUCTION SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT.
3. THE TESTING LABORATORY SHALL EXAMINE AND REPORT ON THE CONDITION OF PORTIONS OF THE EXISTING STRUCTURE WHICH WILL BE ALTERED OR WHICH WILL SUPPORT NEW FRAMING, WITH SPECIAL EMPHASIS ON THE FOLLOWING:
   - A. EXISTING BOLTED CONNECTIONS: IDENTIFY MISSING, DAMAGED OR OTHERWISE DETERIORATED BOLTS AND CONNECTION PLATES.
   - B. EXISTING WELDED CONNECTIONS: VERIFY THAT WELDS WERE COMPLETED AND ARE STILL IN GOOD CONDITION, SUITABLE FOR SUPPORT OF ADDITIONAL LOADS SHOWN ON DRAWINGS.
   - C. GENERAL CONDITION OF FRAMING IN AREAS TO BE LOADED OR ALTERED. CONFIGURATION AND EVIDENCE OF EXCESSIVE CORROSION OR OTHER DAMAGE SHALL BE REPORTED.

TYPICAL ABBREVIATIONS, SYMBOLS AND PLAN NOTES — AS-1

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St. Tel 210.222.8059
Suite 200
San Antonio, TX 78205
United States

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

ARUP
MEP, Lighting, Security, and Acoustics Consultant
ARUP
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.782.2787

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

OJB
Landscape Architect
OJB
711 Louisiana Street, Suite 111
Houston, TX 77002
Tel 713.529.9919

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

DATUM ENGINEERS
Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

MGAC
Development Manager
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

Seal / Signature

△ Date	Description
08/10/2023	100% SCHEMATIC DESIGN
09/07/2023	DEMOLITION PACKAGE FOR ARCHEOLOGICAL PERMIT - WESTERN SCOPE
11/02/2023	100% DESIGN DEVELOPMENT
01/05/2024	5A DEMOLITION MOBILIZATION

NOT FOR CONSTRUCTION

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Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
TYPICAL ABBREVIATIONS, SYMBOLS AND PLAN NOTES

Scale
1/8" = 1'-0"

S1.01

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CONCRETE MIX

1. PROVIDE CONCRETE HAVING THE FOLLOWING GENERAL CHARACTERISTICS:

CLASS	28-DAY STRENGTH (PSI)	SLUMP (IN)	AGG. TYPE	MAX. SIZE (IN.)	USAGE
B	3000	3-5	HDRK	1	GRADE BEAMS, SLABS-ON-GRADE, FOOTINGS
C	4000	3-5	HDRK	1	FORMED SLABS, BEAMS, WALLS, COLUMNS, SLABS-ON-VOID BOXES

2. IN ADDITION TO THE CONCRETE PROPERTIES SCHEDULED ABOVE, THE WATER/CEMENTITIOUS MATERIALS (W/C) RATIO FOR THE FOLLOWING CONCRETE APPLICATIONS SHALL BE LIMITED TO THE MAXIMUM VALUES NOTED:
   a. SLABS ON GRADE 0.50 (SEE NOTE 3)
   b. SLABS ON VOID BOXES 0.50 (SEE NOTE 3)
3. MAXIMUM WATER-CEMENT RATIO FOR CONCRETE SLABS-ON-GRADE AND SLABS-ON-VOID BOXES SHALL BE AS SCHEDULED IN NOTE 2, ABOVE. CONTRACTOR SHALL USE LOWER WATER-CEMENT RATIO IF IT IS DETERMINED THAT THIS IS NEEDED TO PLACE FLOORING AS SCHEDULED.
4. WORKABILITY ADMIXTURES, PROVIDED THAT BATCH PROPORTIONS ARE DETERMINED AND SUBMITTED IN THE MANNER DESCRIBED IN THE SPECIFICATIONS, WHEN A WORKABILITY ADMIXTURE IS USED, SLUMP SHALL CONFORM TO THE REQUIREMENTS OF THE ACCEPTED MIX DESIGN, WHICH SHALL NOT EXCEED 8 INCHES (WITH A TOLERANCE OF +0 AND -2.5 INCHES) AT TIME OF DISCHARGE.
5. SLUMP LIMITS APPLY AT THE TRUCK AT THE TIME OF DISCHARGE EXCEPT THAT PUMPED CONCRETE SHALL BE SAMPLED AT THE DISCHARGE END OF THE HOSE.
6. FLY ASH WILL NOT BE PERMITTED IN ARCHITECTURALLY EXPOSED CONCRETE. FLY ASH MAY BE USED ELSEWHERE, WITHIN THE SPECIFIED PROPORTION LIMITS, BUT THE CONTRACTOR SHALL FIRST VERIFY COMPATIBILITY WITH CURING COMPOUNDS, SEALERS, BOND BREAKER, FLOORING ADHESIVES AND OTHER MATERIALS PROPOSED TO BE IN CONTACT WITH THE CONCRETE.
7. USE OF ACCELERATING OR SET-RETARDING ADMIXTURES REQUIRES PRIOR APPROVAL OF THE ARCHITECT. IN GENERAL, USE OF CALCIUM CHLORIDE WILL NOT BE PERMITTED.

   CEMENT SHALL BE TYPE I OR TYPE III (ASTM C 150).

CONCRETE REINFORCING

1. REINFORCING STEEL SHALL BE NEW OR RECYCLED DOMESTIC DEFORMED BILLET STEEL, CONFORMING TO ASTM A 615, GRADE 60.
2. REINFORCING STEEL SHOWN IN SECTIONS OF BEAMS, WALLS AND COLUMNS IS SCHEMATIC INDICATION THAT REINFORCING EXISTS. SEE SCHEDULES, SECTION NOTES, AND GENERAL NOTES FOR ACTUAL REINFORCING REQUIRED.
3. REFER TO DOWEL SCHEDULE, SHEET 3.00 FOR ALL BARS MARKED "DWL" ON THE DRAWINGS.
4. DETAIL REINFORCING BARS AND PROVIDE BAR SUPPORTS AND SPACERS IN ACCORDANCE WITH THE ACI DETAILING MANUAL.
5. WHERE BAR TYPES FROM THE BAR BENDING DIAGRAM ARE SPECIFIED, PROVIDE BARS ACCORDINGLY. OTHERWISE, DETAIL BARS IN BEAMS, COLUMNS, SLABS, AND WALLS AS FOLLOWS:

   A. RUN TOP AND BOTTOM BARS CONTINUOUS, WITH SPLICES AND HOOKS AS DESCRIBED BELOW.
   B. PROVIDE STANDARD 90 DEGREE HOOK ON TOP BARS AT CANTILEVER ENDS.
   C. SPLICE TOP AND INTERMEDIATE BARS AT THE CENTER LINE BETWEEN MEMBER SUPPORTS, UNLESS NOTED OTHERWISE.
   D. SPLICE BOTTOM BARS DIRECTLY OVER MEMBER SUPPORTS, UNLESS NOTED OTHERWISE.
   E. SPLICE VERTICAL BARS IN WALLS ONLY AT FLOOR LINES, UNLESS NOTED OTHERWISE. HORIZONTAL BARS SHALL BE SPLICED AS SPECIFIED FOR TOP, BOTTOM, AND INTERMEDIATE BARS OF BEAMS.
   F. CENTER BARS NOTED AS "AT SUPT'S." OVER MEMBER SUPPORTS, AND CENTER BARS NOTED AS "BTWN. SUPT'S." BETWEEN SUPPORTS.
   G. PLACE BARS NOTED AS "2ND LAYER" BELOW THE PRIMARY TOP BARS (OR ABOVE THE PRIMARY BOTTOM BARS) AND PROVIDE #11 SPACER BARS PLACED AT INTERVALS OF 4'-0" BETWEEN THE TWO LAYERS OF BARS.
   H. ALL BAR SPLICES IN BEAMS, SLABS, AND WALLS ((OTHER THAN CORE WALLS AND BASEMENT WALLS)) SHALL BE 30 BAR DIAMETERS, EXCEPT THAT SPLICES IN HORIZONTAL WALL BARS AND INTERMEDIATE BEAM BARS SHALL BE 66 BAR DIAMETERS.
   I. PROVIDE CORNER BARS FOR EACH HORIZONTAL BAR AT THE INSIDE AND OUTSIDE FACES OF INTERSECTING BEAMS OR WALLS. REFER TO CORNER BAR DETAILS ON SHEET S3.00.
6. BARS SHOWN IN THE SCHEDULE TO HOOK AT DISCONTINUOUS ENDS SHALL HAVE THE HOOK PLACED HORIZONTALLY AT EXTERIOR CORNERS.
7. PROVIDE NO. 3 DOWELS X 2'-0" AT 1'-6" ON CENTER, WITH A 90 DEGREE HOOK AT ALL EDGES OF CONCRETE SLABS, UNLESS DETAILED OTHERWISE.
8. PROVIDE FOUNDATION DOWELS TO MATCH MASONRY WALL REINFORCEMENT. DOWELS SHALL EXTEND A MINIMUM OF 60 BAR DIAMETERS ABOVE AND 30 BAR DIAMETERS BELOW TOP OF FOUNDATION.
9. CONCRETE COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS, MEASURED TO NEAREST BAR, STIRRUP OR TIE:

   A. AT SLABS-ON-GRADE, BEAM AND WALL SURFACES DEPOSITED AGAINST THE GROUND (WITH OR WITHOUT VAPOR RETARDER): 3".
   B. AT FORMED FACES OF BEAMS, COLUMNS AND WALLS EXPOSED TO RAIN OR IN CONTACT WITH THE GROUND: 2".
   C. AT FORMED FACES OF BEAMS NOT EXPOSED TO RAIN OR SOIL: 1 1/2".
   E. AT INTERIOR AND PROTECTED EXTERIOR FACES OF WALLS: 1".
   F. AT BEAM AND SLAB BOTTOMS FORMED WITH FIBERBOARD VOID BOXES: 2".
   G. FORMED SURFACES OF SLABS:
      INTERIOR EXPOSURE: 1"
      #5 BAR AND SMALLER, EXPOSED TO WEATHER: 1 1/2"
      #6 BAR AND LARGER, EXPOSED TO WEATHER: 2"
   L. TOP STEEL IN SLABS AND JOISTS:
      INTERIOR EXPOSURE: 1"
      EXPOSED TO WEATHER: 2"
   M. TOP STEEL IN BEAMS:
      INTERIOR EXPOSURE: 1 1/2"
      EXPOSED TO WEATHER: 2"
10. MAINTAIN THE SPECIFIED COVER DIMENSION WITHIN A TOLERANCE OF PLUS OR MINUS 3/8" EXCEPT FOR SLABS-ON-GRADE AND SOIL-FORMED MEMBERS, WHERE 5/8" TOLERANCE IS PERMITTED. EXTRA COVER WEAKENS THE MEMBER AND REDUCED COVER LEADS TO CORROSION.
11. PROVIDE 1.0 TONS OF ADDITIONAL REINFORCING STEEL (#3 BARS AND LARGER) TO BE USED IN THE FIELD AS DIRECTED BY THE ARCHITECT/ENGINEER. LABOR FOR DETAILING, CUTTING, BENDING, AND PLACEMENT SHALL BE INCLUDED. ANY UNUSED PORTION OF THIS QUANTITY SHALL BE CREDITED TO THE OWNER AT THE RATE OF $3,000 PER TON.

CAST-IN-PLACE CONCRETE

1. CONSTRUCTION JOINTS IN BEAMS, SLABS AND WALLS SHALL ONLY OCCUR WITHIN 2'-0" OF MIDSPAN BETWEEN SUPPORTS. CONSTRUCTION JOINTS IN SOIL SUPPORTED SLABS-ON-GRADE SHALL BE WHERE SHOWN ON PLAN. SEE NOTES ON TYPICAL SLAB-ON-GRADE DETAIL FOR LOCATING SLAB JOINTS. COLUMN PILASTERS ON THE SIDES OF GRADE BEAMS AND WALLS SHALL BE CAST MONOLITHICALLY WITH THE GRADE BEAM OR WALL UNLESS SHOWN OTHERWISE. SUBMIT A DIAGRAM OF ALL PROPOSED CONSTRUCTION JOINTS WHICH ARE NOT SPECIFICALLY SHOWN ON THESE DRAWINGS (REFER TO SPECIFICATIONS).
2. SLEEVES, MECHANICAL OPENINGS, CONDUITS, PIPES, RECESSES, DEPRESSIONS, CURBS AND ALL EMBEDDED ITEMS SHALL BE PROVIDED FOR AS SHOWN ON THE ARCHITECTURAL AND MECHANICAL DRAWINGS AND AS REQUIRED BY EQUIPMENT MANUFACTURERS. MINIMUM CONCRETE BETWEEN SLEEVES SHALL BE 6". INSTALLATION OF THESE ITEMS SHALL BE COORDINATED WITH SHOP DRAWINGS OF TRADES REQUIRING THESE ITEMS.
3. SET FORMS TO FOLLOW SLOPES AND GRADES DEFINED ON PLAN, KEEPING MEMBER DEPTHS CONSTANT AT DEPTHS DETAILED OR SCHEDULED, UNLESS NOTED OTHERWISE. SLOPE UNIFORMLY BETWEEN ELEVATIONS GIVEN. BUILD IN CAMBER WHERE SPECIFIED.
4. ALL CONDUITS AND PIPES EMBEDDED IN CONCRETE SHALL COMPLY WITH ALL PROVISIONS SPECIFIED IN ACI 318, SECTION 6.3, WITH THE FOLLOWING SPECIFIC REQUIREMENTS:

   A. THE MAXIMUM OUTSIDE DIAMETER OF THE CONDUITS AND PIPES SHALL BE 1 1/2". NONE PERMITTED IN SLABS THINNER THAN 4 1/2".
   B. THE MINIMUM CLEAR DISTANCE BETWEEN CONDUITS AND PIPES SHALL BE 6".
   C. AT FORMED SLABS, LOCATE IN MIDDLE THIRD OF SLAB THICKNESS BETWEEN THE TOP AND BOTTOM MAT OF REINFORCING. AT BEAMS, LOCATE INSIDE BEAM STIRRUP. IN JOISTS, LOCATE AT CENTER LINE, AT LEAST 6" FROM BOTTOM.
   D. NONE PERMITTED IN SLABS-ON-GRADE WHICH WILL BE PERMANENTLY EXPOSED OR SCHEDULED TO RECEIVE THIN SET TILE. PLACE ALL PIPES AND CONDUITS IN THE FILL BENEATH THE VAPOR RETARDER. RECOMPACT AS SPECIFIED.
   E. IN NON-EXPOSED SLABS-ON-GRADE, LIMIT SIZE TO 1" O.D. IN 5" SLAB AND 1 1/4" O.D. IN 6" SLAB. SPACE 12" APART AND TIE TO UNDERSIDE OF REINFORCING MAT. WHERE LINES CONVERGE AT SOURCE, DOUBLE UP THE SLAB REINFORCING IN THE CONVERGENCE ZONE AND 3'-0" BEYOND. PLACE ALL LARGER LINES IN THE FILL BENEATH THE VAPOR RETARDER.
   F. DO NOT DISPLACE REINFORCING STEEL FROM ITS PROPER POSITION.
5. SLEEVES OR PIPES PASSING HORIZONTALLY THROUGH BEAMS OR JOISTS MUST BE LOCATED IN THE MIDDLE THIRD OF THE SPAN AND WITHIN THE MIDDLE THIRD OF THE BEAM DEPTH. MAXIMUM DIAMETER SHALL BE ONE THIRD OF THE MEMBER DEPTH. SPACE AT LEAST 3 DIAMETERS CLEAR APART AND ADD ONE STIRRUP EACH SIDE OF EACH SLEEVE.
6. PROVIDE SHEAR KEYS IN ALL CONSTRUCTION JOINTS IN BEAMS AND WALLS, IN ACCORDANCE WITH THE TYPICAL CONCRETE DETAILS.
7. TOP SURFACES OF CONCRETE BEAMS WHICH SUPPORT PRECAST CONCRETE MEMBERS SHALL RECEIVE A TROWELED SMOOTH FINISH AND SHALL BE STRAIGHT, TRUE AND LEVEL.
8. PLACE WATERSTOPS IN ALL EXTERIOR CONSTRUCTION JOINTS BELOW GRADE AND ELSEWHERE AS CALLED FOR.
9. WHERE GRADE BEAMS ARE TRENCH FORMED, THE TOP OF THE EXTERIOR FACE SHALL BE WOOD FORMED TO AT LEAST 1'-0" BELOW EXTERIOR FINISHED GRADE LEVEL.
10. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO ENSURE COMPLETE CONSOLIDATION OF CONCRETE BEHIND ALL POST-TENSIONING ANCHORAGES.
11. GROUT OR CONCRETE CONTAINING CHLORIDES, FLUORIDES, SULFIDES, NITRATES, OR OTHER SUBSTANCES DETRIMENTAL TO PRESTRESSING STEEL SHALL NOT BE USED.

STRUCTURAL STEEL

1. COORDINATION OF THE ROOF STRUCTURE AND THE ARCHITECTURAL SECTIONS AND ELEVATIONS IS CRITICAL TO PROPER STRUCTURAL STEEL FABRICATION. ELEVATIONS OF TOP OF STRUCTURAL STEEL ARE SHOWN ON THE ARCHITECTURAL PLANS AND SECTIONS. REFER TO THESE SECTIONS AND DETAILS TO SET THE STEEL ELEVATIONS AND TO UNDERSTAND THE ARCHITECTURAL INTENT.
2. **TOLERANCE REQUIREMENTS -** STRUCTURAL DRAWINGS INDICATE MISCELLANEOUS STEEL ELEMENTS SUCH AS SHELF ANGLES, LINTELS, SUPPORT MEMBERS FOR CURTAIN WALLS OR MASONRY, AND EDGE ANGLES FOR OPENINGS AND PERIMETER CONDITIONS WHICH ARE INTENDED TO SUPPORT OR BE COORDINATED WITH MATERIALS FURNISHED BY OTHER TRADES. IT IS THE INTENT OF THESE DRAWINGS THAT THESE ELEMENTS BE FIELD ATTACHED BY FIELD WELDING OR BOLTING TO MEET THE TOLERANCES REQUIRED BY OTHER TRADES, WHICH MAY BE MORE STRINGENT THAN A.I.S.C. TOLERANCES FOR STRUCTURAL STEEL. CONTRACTOR SHALL COORDINATE TRADES AND FIELD INSTALL MISCELLANEOUS STEEL ELEMENTS AND THE STRUCTURAL STEEL FRAME TO COMPLY WITH THE TOLERANCE CRITERIA FOR PROPER INSTALLATION OF MATERIALS BY OTHER TRADES.
3. STRUCTURAL STEEL MATERIAL SHALL CONFORM TO THE FOLLOWING DESIGNATIONS:

WIDE FLANGE (W) SHAPES AND TEES	A 992 (50 KSI YIELD)
OTHER ROLLED SHAPES, PLATES AND RODS	A 36 (36 KSI YIELD)
HOLLOW STRUCTURAL SHAPES (HSS OR TS)	A 500, GRADE B OR GRADE C (42 KSI YIELD ROUND/46 KSI YIELD SQUARE)
PIPE	A 53, GRADE B (35 KSI YIELD)
BOLTS FOR CONNECTIONS	A 325N
ANCHOR BOLTS (ANCHOR RODS)	F 1554 (36 KSI YIELD)

4. PREDESIGNED BEAM CONNECTION DETAILS ARE SHOWN ON SHEET _____. OTHER TYPICAL CONNECTIONS ARE SHOWN IN TYPICAL DETAILS. CONNECTIONS WHICH ARE NOT SPECIFICALLY DETAILED SHALL BE DESIGNED BY THE FABRICATOR IN ACCORDANCE WITH THE CONNECTION NOTES AND SPECIFICATIONS.
5. ALL MOMENT CONNECTIONS SHALL BE FULL WELDED CONNECTIONS DESIGNED TO DEVELOP THE FULL CROSS-SECTION OF THE MEMBER. STIFFENER PLATES, WHERE SHOWN, ARE MANDATORY AND MAY NOT BE OMITTED. MOMENT CONNECTIONS ARE INDICATED ON THE PLANS BY A TRIANGULAR BULB ON THE END OF THE BEAM, OR BY THE LETTERS "MC".
6. CANTILEVER BEAMS MOMENT CONNECTED TO THE FRAME SHALL BE THE SAME SIZE AS THE BACK-UP SPAN IF NO SIZE IS GIVEN.
7. ALL BOLTS SHALL BE TIGHTENED TO A "SNUG TIGHT" CONDITION.
8. ALL BOLTS IN BEAM, GIRDER, COLUMN AND BRACE CONNECTIONS SHALL BE FULLY TENSIONED. ALL OTHER BOLTS MAY BE TIGHTENED TO ONLY A "SNUG TIGHT" CONDITION.
9. BACK TO BACK CHANNELS OR DOUBLE ANGLES ACTING AS COMPRESSION MEMBERS SHALL BE CONNECTED TO EACH OTHER AT THIRD POINTS ALONG THE LENGTH BY WELDING IN SPACER PLATES OF EQUAL THICKNESS TO THE GUSSET PLATES. UNEQUAL LEG ANGLES SHALL BE ORIENTED LONG LEG DOWN UNLESS NOTED OTHERWISE.
10. TEMPORARY CONSTRUCTION BRACING OF STRUCTURAL STEEL FRAME SHALL REMAIN IN PLACE UNTIL AFTER ALL PERMANENT BRACING COMPONENTS HAVE BEEN COMPLETED. THE LATERAL-LOAD-RESISTING SYSTEM OF THE BUILDING INCLUDES MOMENT-CONNECTED RIGID FRAMES, DESIGNATED WIND BRACES, CONCRETE SHEAR WALLS, REINFORCED MASONRY SHEAR WALLS, AND CONNECTING DIAPHRAGM ELEMENTS. THE METAL ROOF DECK AND COMPLETED CONCRETE FILL ON METAL FLOOR DECK ARE ESSENTIAL DIAPHRAGM COMPONENTS OF THE PERMANENT BRACING SYSTEM.
11. WHERE W-SHAPES ARE USED AS ROOF PURLINS, PROVIDE BOTTOM FLANGE BRACING PER DETAIL SRJ-40 AT MIDSPAN, MINIMUM, UNLESS OTHERWISE INDICATED ON PLANS.
12. WIND BRACES IN THE VERTICAL PLANE ARE DENOTED BY "WB" ON THE PLAN. SEE WIND BRACE DETAILS FOR CONFIGURATIONS.
13. STEEL ANGLES AND OTHER SHAPES THAT DEFINE THE EDGE OF THE FLOOR OR ROOF AND ARE SHOWN TO BE WELDED TO SUPPORTING BEAMS, SHALL BE FIELD WELDED, NOT SHOP WELDED, SO THAT THEIR POSITION CAN BE ADJUSTED TO CORRECT FOR FABRICATION AND ERECTION TOLERANCES OF THOSE SUPPORTING BEAMS AND PROVIDE AN EDGE THAT IS CONSISTENT WITH THE REQUIREMENTS OF THE FINISHES THAT IT SUPPORTS AND/OR ACCOMMODATES.
14. SHELF ANGLES SHOWN AS CONTINUOUS IN THE SECTIONS SHALL BE INSTALLED IN 20'-0" MAXIMUM LENGTHS, LEAVING A 1/4" GAP BETWEEN ENDS AND AT CORNERS. LOCATE GAPS TO MATCH MASONRY CONTROL JOINTS. AT BUILDING EXPANSION JOINT, LEAVE A GAP TO MATCH EXPANSION JOINT WIDTH.
15. CONNECT MISCELLANEOUS STEEL MEMBERS USING FILLET WELDS SUFFICIENT TO DEVELOP THE TENSILE STRENGTH OF THE SMALLER MEMBER AT THE JOINT UNLESS SHOWN OTHERWISE.
16. ALL STEEL SHALL BE FURNISHED WITH SHOP COAT OF RUST INHIBITIVE PRIMER.
17. WHERE ANGLES ARE NOTED TO BE CONTINUOUS, PROVIDE FULL BUTT WELD AT SPLICES.
18. WHERE TWO OR MORE PIECES ARE TO BE WELDED TOGETHER AND THEN HOT-DEP GLAVANIZED, THE SPECIFIED WELD CONNECTING THE PIECES SHALL BE CONTINUOUS ALONG THE ENTIRE LENGTH OF THE INTERFACE (SEAL WELDED).
19. PROVIDE _ TONS OF ADDITIONAL STRUCTURAL STEEL TO BE USED IN THE FIELD AS DIRECTED BY THE ARCHITECT/ENGINEER. LABOR FOR DETAILING, FABRICATION, AND ERECTION SHALL BE INCLUDED. ANY UNUSED PORTION OF THIS QUANTITY SHALL BE CREDITED TO THE OWNER AT THE RATE OF $____((1800)) PER TON.

METAL ROOF DECK

1. ROOF DECK SHALL BE 1 1/2" DEEP, 20 GAUGE, WIDE RIB, GALVANIZED METAL DECK, WITH 6" RIB SPACING, MEETING THE REQUIREMENTS OF THE STEEL DECK INSTITUTE.
2. ROOF DECK SHALL BE CONTINUOUS OVER THREE OR MORE SPANS.
3. TYPICAL DECK CONNECTIONS SHALL BE AS FOLLOWS:
   AT EACH SUPPORT: PUDDLE WELDS AT EACH SIDE LAP AND AT INTERMEDIATE RIBS AT AN AVERAGE SPACING OF 12" ON CENTER, NOT TO EXCEED 18" ON CENTER.
   AT SIDE LAPS: SCREWS EQUALLY SPACED BETWEEN SUPPORTS, NOT TO EXCEED 36" ON CENTER.
   AT EXTERIOR SIDES, PARALLEL TO DECK SPAN: PUDDLE WELDS AT 12" ON CENTER.
4. SCREWS SHALL BE "TEKS" #12-14X3/4" HWH #2.
5. PUDDLE WELDS SHALL BE FULL-FUSION, 5/8" DIAMETER (MINIMUM) WELDS, MADE THROUGH WELD WASHERS. METAL AROUND WELDS SHALL BE COMPLETELY INTACT AFTER WELDING.
6. THE METAL ROOF DECK ON THIS PROJECT IS REQUIRED TO PERFORM AS A STRUCTURAL DIAPHRAGM, WITH SHEAR LOADS OF _____ POUNDS PER FOOT. ALL WELDS AND SCREWS ARE CRITICAL TO THE SUCCESSFUL PERFORMANCE OF THE DIAPHRAGM.
7. SUSPENDED CEILING, LIGHT FIXTURES, DUCTS OR OTHER UTILITIES SHALL NOT BE SUPPORTED BY THE STEEL DECK.

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www.datumengineers.com | Co. Reg. No. 7-2870
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512.480.9466 312.796.5180 214.358.0378 210.858.2880
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ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St. Tel 210.222.8059
Suite 200
San Antonio, TX 78205
United States

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

ARUP
MEP, Lighting, Security, and Acoustics Consultant
ARUP
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.782.2787

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

OJB
Landscape Architect
OJB
711 Louisiana Street, Suite 111
Houston, TX 77002
Tel 713.529.9919

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

DATUM ENGINEERS
Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

MGAC
Development Manager
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

Seal / Signature

△ Date	Description
08/10/2023	100% SCHEMATIC DESIGN
09/07/2023	DEMOLITION PACKAGE FOR ARCHEOLOGICAL PERMIT - WESTERN SCOPE
11/02/2023	100% DESIGN DEVELOPMENT
01/05/2024	5A DEMOLITION MOBILIZATION

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Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
GENERAL NOTES

Scale
1/8" = 1'-0"

S1.02

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ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

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300 Alamo Plaza, Suite 200
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MEP, Lighting, Security, and Acoustics Consultant
ARUP
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.782.2787

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

OJB
Landscape Architect
OJB
711 Louisiana Street,
Suite 111
Houston, TX 77002
Tel 713.529.9919

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

DATUM ENGINEERS
Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

MGAC
Development Manager
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

1 AREA 5 - LOWER PASEO SITE PLAN - DEMOLITION - 5A

1/8" = 1'-0"

Seal / Signature

△ Date	Description
08/10/2023	100% SCHEMATIC DESIGN
09/07/2023	DEMOLITION PACKAGE FOR ARCHEOLOGICAL PERMIT - WESTERN SCOPE
11/02/2023	100% DESIGN DEVELOPMENT
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Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
DEMO SITE PLAN

Scale
1/8" = 1'-0"

S2.01

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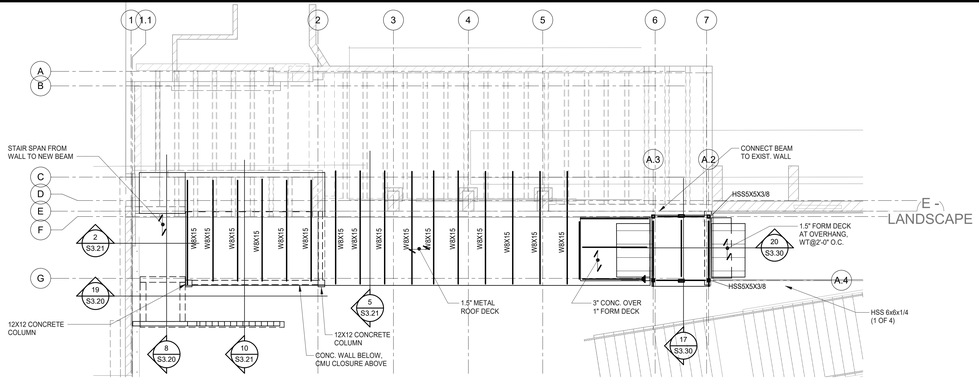
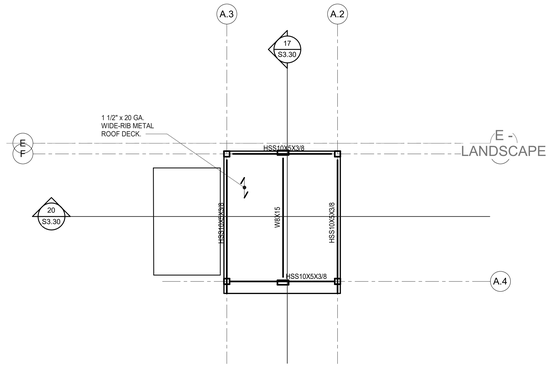


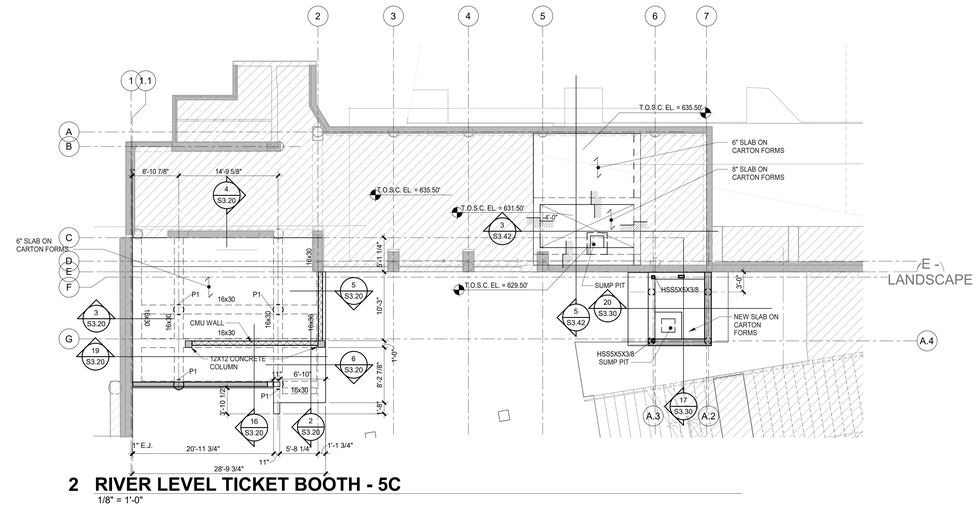
3 LASOYA ST LEVEL - 5C

1/8" = 1'-0"



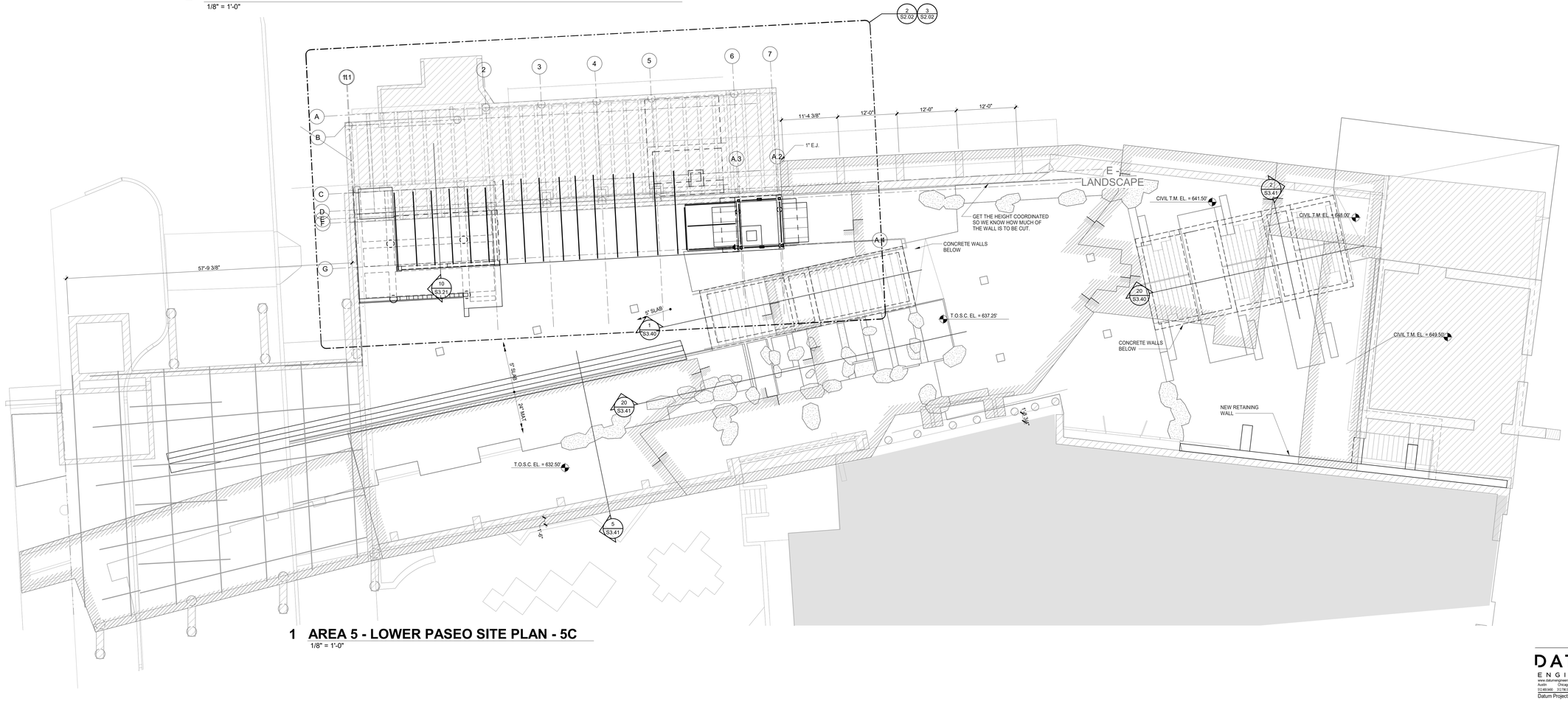
4 ELEVATOR ROOF FRAMING PLAN

1/4" = 1'-0"



2 RIVER LEVEL TICKET BOOTH - 5C

1/8" = 1'-0"



1 AREA 5 - LOWER PASEO SITE PLAN - 5C

1/8" = 1'-0"

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

ARUP
MEP, Lighting, Security, and Acoustics Consultant
ARUP
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.782.2787

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

OJB
Landscape Architect
OJB
711 Louisiana Street,
Suite 111
Houston, TX 77002
Tel 713.529.9919

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

DATUM ENGINEERS
Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

MGAC
Development Manager
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

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Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
SITE PLAN

Scale
As indicated

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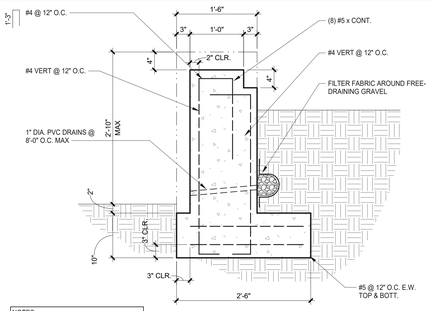
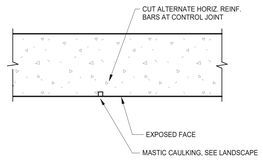


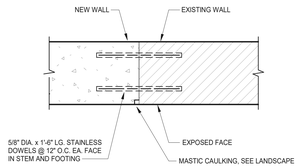
NOTES:
1. SEE LANDSCAPE FOR PLAN LOCATION; TOP OF WALL AND TOP OF PAVING FOR SEAT WALLS

SEAT WALL
TYPICAL DETAIL
1

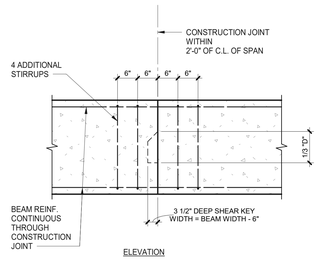
NOTES:
1. CONTROL JOINT SPACING NOT TO EXCEED 30'-0".
2. CONTINUE CONTROL JOINT OVER TOP OF WALL, WHERE EXPOSED.



WALL CONTROL JOINT
TYPICAL DETAIL
2



WALL TO EXISTING WALL
TYPICAL DETAIL
3



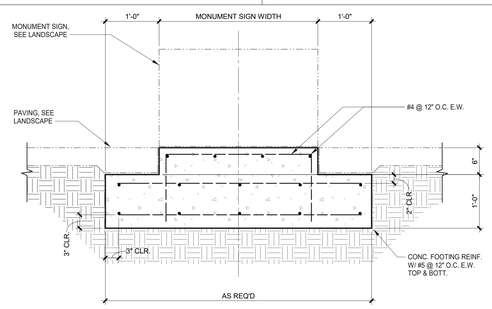
ELEVATION

BEAM VERTICAL CONSTRUCTION JOINT
TYPICAL DETAIL
NO SCALE
8

DOWEL SCHEDULE

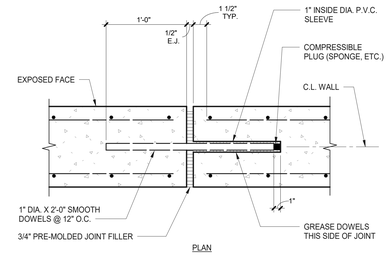
MARK	SIZE	A	B	C
DWL. A	#4	8"	3'-0"	---
DWL. B	#4	3'-0"	3'-0"	---
DWL. C	#4	---	4'-0"	---
DWL. D	#6 THD.	---	4'-0"	---
DWL. E	#4 THD.	---	3'-0"	---
DWL. F	#4 THD.	---	6'-0"	---

NOTES:
1. SCHEDULED DOWELS ARE MARKED "DWL." ON THE SECTIONS AND DETAILS.
2. DOWEL SPACING TO BE THE SAME AS VERTICAL BEAM OR WALL REINFORCEMENT, UNLESS OTHERWISE NOTED ON...
3. DOWELS WITH "THD" IN "SIZE" COLUMN SHALL BE THREADED DOWELS WITH APPROVED DOWEL BAR ANCHORS...



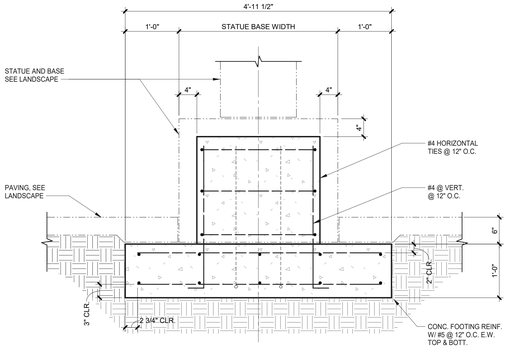
MONUMENT SIGN
TYPICAL DETAIL
NO SCALE
9

NOTES:
1. EXPANSION JOINT SPACING NOT TO EXCEED 90'-0".
2. PROVIDE JOINT IN FOOTING TO MATCH WALL JOINT LOCATION.
3. DOWELS SHALL BE CAREFULLY LEVELED AND ALIGNED PERPENDICULAR TO JOINT PRIOR TO CONCRETING, AND ADEQUATELY SUPPORTED DURING CONCRETING OPERATIONS TO MAINTAIN THAT ALIGNMENT. MISALIGNED AND UNLEVELED DOWELS CAUSE CRACKING AND FOOTING MISALIGNMENT.



PLAN

RETAINING WALL EXPANSION JOINT
TYPICAL DETAIL
NO SCALE
10

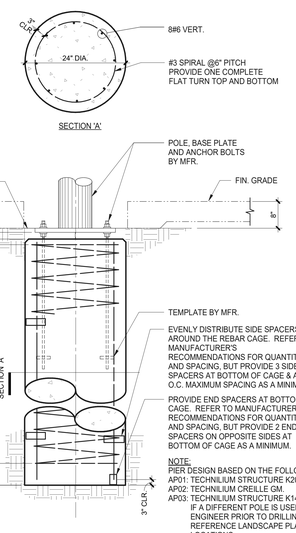


STATUE FOUNDATION
TYPICAL DETAIL
NO SCALE
12

BENCH FOOTING
TYPICAL DETAIL
NO SCALE
13

FOOTING SCHEDULE

POLE USE	HEIGHT	FOOTING LENGTH
STREET BANNER (AP03)	15'-9"	6'-0"
SMALL LIGHT FIXTURES (AP02)	15'-9"	6'-0"
LARGE LIGHT FIXTURES (AP01)	39'-4"	10'-0"



NOTE:
PIER DESIGN BASED ON THE FOLLOWING:
AP01: TECHNILIUM STRUCTURE K200
AP02: TECHNILIUM CREILLE GM.
AP03: TECHNILIUM STRUCTURE K140.
IF A DIFFERENT POLE IS USED, NOTIFY ENGINEER PRIOR TO DRILLING PIERS. REFERENCE LANDSCAPE PLANS FOR LOCATIONS.

POLE FOUNDATION
TYPICAL DETAIL
NO SCALE
15

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Austin, TX 78701 San Antonio, TX 78205
512.480.9466 210.736.0556 210.802.0726 210.930.2900
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ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
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The Texas General Land Office
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Datum Engineers, Inc.
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Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
TYPICAL DETAILS

Scale
As indicated

S3.00

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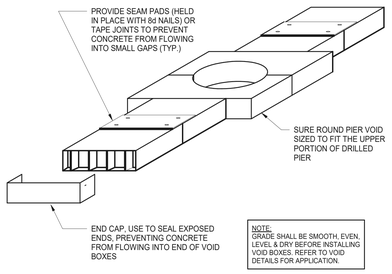


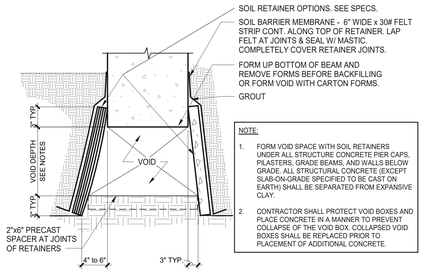
NOTE:
GRADE SHALL BE SMOOTH, EVEN, LEVEL & DRY BEFORE INSTALLING VOID BOXES. REFER TO VOID DETAILS FOR APPLICATION.

WALL AND BEAM VOID

TYPICAL DETAIL

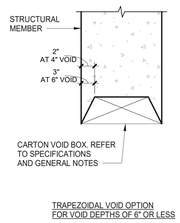
NO SCALE

1



NOTE:
1. FORM VOID SPACE WITH SOIL RETAINERS UNDER ALL STRUCTURE CONCRETE PIER CAPS, PILASTERS, GRADE BEAMS, AND WALLS BELOW GRADE. ALL STRUCTURAL CONCRETE (EXCEPT SLAB-ON-GRADE SPECIFIED TO BE CAST ON EARTH) SHALL BE SEPARATED FROM EXPANSIVE CLAY.
2. CONTRACTOR SHALL PROTECT VOID BOXES AND PLACE CONCRETE IN A MANNER TO PREVENT COLLAPSE OF THE VOID BOX. COLLAPSED VOID BOXES SHALL BE REPLACED PRIOR TO PLACEMENT OF ADDITIONAL CONCRETE.

RECTANGULAR VOID OPTION



TRAPEZOIDAL VOID OPTION
FOR VOID DEPTHS OF 6" OR LESS

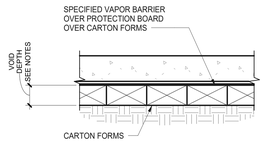
NOTES:
1. PLACE VOID BOXES UNDER ALL STRUCTURAL CONCRETE PIER CAPS, PILASTERS, GRADE BEAMS & WALLS SHOWN TO BE PLACED DIRECTLY ON EARTH. ALL STRUCTURAL CONCRETE (EXCEPT SLAB ON GRADE SPECIFIED TO BE CAST ON EARTH) SHALL BE SEPARATED FROM EXPANSIVE CLAY. GRADE SAHLL BE SMOOTH EVEN AND LEVEL BEFORE INSTALLING VOID BOXES.
2. CONTRACTOR SHALL PROTECT VOID BOX. COLLAPSE VOID BOXES SHALL BE REPLACED PRIOR TO PLACEMENT OF ADDITIONAL CONCRETE.

STRUCTURE OVER VOID

TYPICAL DETAIL

NO SCALE

3



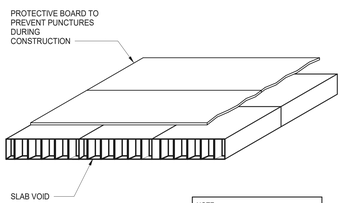
NOTE:
REPLACE CARTON FORMS THAT HAVE BEEN DAMAGED OR IF THEY BECOME SATURATED AND WEAK. TAKE SPECIAL CARE TO PREVENT CRUSHING OF CARTON FORMS DURING PLACEMENT OF REINFORCING AND CONCRETE.

SLAB ON VOID

TYPICAL DETAIL

NO SCALE

4



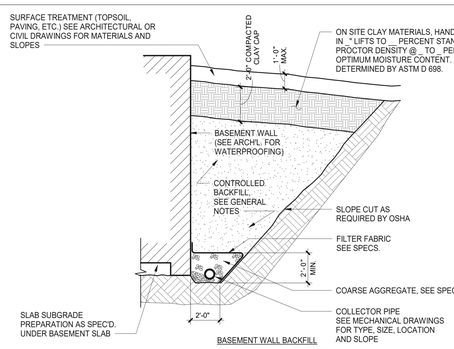
NOTE:
GRADE SHALL BE SMOOTH, EVEN LEVEL & DRY BEFORE INSTALLING VOID BOXES. REFER TO VOID DETAILS FOR APPLICATION.

STRUCTURAL SLAB VOID

TYPICAL DETAIL

NO SCALE

6



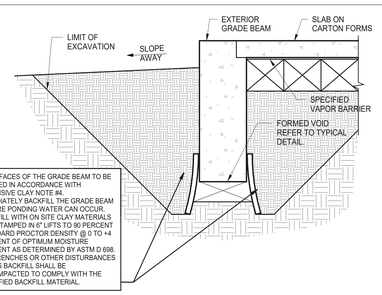
NOTE:
1. BACKFILL SHALL NOT BE PLACED AGAINST FOUNDATION WALL UNTIL ALL SUPPORTING SLABS, BEAMS, STRUTS, ETC., HAVE ATTAINED THEIR 28-DAY DESIGN STRENGTH, UNLESS PROPER BRACING IS INSTALLED IN A MANNER APPROVED BY THE ARCHITECT.
2. WHERE BACKFILL IS REQUIRED ON BOTH SIDES OF STRUCTURE OR ELEMENT, BACKFILL SHALL BE PLACED SIMULTANEOUSLY ON BOTH SIDES SO THAT THE BACKFILL HEIGHT ON ONE SIDE, DOES NOT EXCEED THE HEIGHT ON THE OPPOSITE SIDE OF MORE THAN 4'-0".

BASEMENT WALL BACKFILL

TYPICAL DETAIL

NO SCALE

13



1. BOTH FACES OF THE GRADE BEAM TO BE FORMED IN ACCORDANCE WITH EXPANSIVE CLAY NOTE #4.
2. IMMEDIATELY BACKFILL THE GRADE BEAM BEFORE PONDING WATER CAN OCCUR. BACKFILL WITH ON SITE CLAY MATERIALS HAND-TAMPED IN 6" LIFTS TO 90 PERCENT STANDARD PROCTOR DENSITY @ 0 TO +4 PERCENT OF OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D 698.
3. ALL TRENCHES OR OTHER DISTURBANCES IN THIS BACKFILL SHALL BE RECOMPACTED TO COMPLY WITH THE SPECIFIED BACKFILL MATERIAL.

EXTERIOR GRADE BEAM BACKFILL DETAIL FOR SLAB ON VOIDS

TYPICAL DETAIL

NO SCALE

14

NOTES:
1. BACKFILL SHALL NOT BE PLACED AGAINST FOUNDATION WALL UNTIL ALL SUPPORTING SLABS, BEAMS, STRUTS, ETC., HAVE ATTAINED THEIR 28-DAY DESIGN STRENGTH, UNLESS PROPER BRACING IS INSTALLED IN A MANNER APPROVED BY THE ARCHITECT.
2. WHERE BACKFILL IS REQUIRED ON BOTH SIDES OF STRUCTURE OR ELEMENT, BACKFILL SHALL BE PLACED SIMULTANEOUSLY ON BOTH SIDES SO THAT THE BACKFILL HEIGHT ON ONE SIDE, DOES NOT EXCEED THE HEIGHT ON THE OPPOSITE SIDE BY MORE THAN 4'-0".

BASEMENT WALL BACKFILL

TYPICAL DETAIL

NO SCALE

18

FOUNDATION PROTECTION IN EXPANSIVE CLAY NOTES

DUE TO THE EXPANSIVE CLAY SOILS THAT EXIST ON THIS SITE, CERTAIN CONSTRUCTION PRACTICES MUST BE FOLLOWED TO PREVENT DAMAGE TO THE FOUNDATIONS. THESE PROCEDURES ARE AS FOLLOWS:

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE DEPTH OF VOID SPACE SHOWN SEPARATING THE CONCRETE FROM UNDERLYING EXPANSIVE CLAY. USE OF CARDBOARD CARTON FORMS (VOID BOXES) IS THE INDUSTRY STANDARD PROCEDURE, BUT THE USE OF CARTON FORMS AS A FORM MATERIAL IS THE CONTRACTOR'S OPTION. IF CARTON FORMS ARE USED INSTEAD OF STANDARD WOOD OR METAL FORMS, THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT ANY CRUSHING OR COLLAPSE OF CARTON FORMS WHICH WOULD RESULT IN A VOID SPACE DEPTH LESS THAN THE DIMENSIONED DEPTH.
2. THE BUILDING SITE MUST BE GRADED AWAY FROM THE BUILDING FOUNDATIONS IN THE INITIAL STAGE OF CONSTRUCTION. THE BUILDING PAD MUST BE MAINTAINED AT THE SPECIFIED MOISTURE CONTENT DURING CONSTRUCTION. STANDING PONDS OF WATER IN THE BUILDING FOUNDATION AREA WILL NOT BE ACCEPTABLE.
3. IT IS ESSENTIAL THAT BACKFILL AROUND ALL GRADE BEAMS BE PLACED IMMEDIATELY AFTER THE GRADE BEAMS ARE CAST. IF RAIN OCCURS BEFORE THE BACKFILL IS PLACED, ALL OPEN EXCAVATIONS AROUND GRADE BEAMS MUST BE PUMPED DRY IMMEDIATELY AND KEPT DRY AT ALL TIMES. **USE SPECIFIED BACKFILL MATERIAL AGAINST ALL GRADE BEAMS ((OR)) BACKFILL AGAINST OUTSIDE FACE OF PERIMETER GRADE BEAMS WITH ON-SITE CLAY MATERIALS**, SEE D & J/CES-1.
4. ALL GRADE BEAMS AND OTHER ELEMENTS BELOW GRADE SHALL BE FORMED STRAIGHT AND TO THE LINES AND GRADES DETAILED. BACKFILL AS REQUIRED. DO NOT CAST SIDES AGAINST THE EARTH EXCAVATION. SEE D & J/CES-1.
5. PROVIDE A VOID BETWEEN THE CLAY SOIL AND ALL STRUCTURAL CONCRETE PIER CAPS, PILASTERS, GRADE BEAMS, WALLS AND SLABS (AT OR BELOW GRADE) WHICH ARE SUPPORTED ON PIERS. ALL STRUCTURAL CONCRETE, EXCEPT SLAB- ON-GRADE, SHALL BE SEPARATED FROM EXPANSIVE CLAY. SEE A, B, F & L/CES-1.
6. IF CARTON FORMS ARE USED TO CONSTRUCT VOIDS, THEY MUST COMPLY WITH THE SPECIFICATIONS AND THE FOLLOWING INSTALLATION PROCEDURES:
   A. PAY SPECIAL ATTENTION TO THE PLACING OF CONCRETE, TO PREVENT CRUSHING THE CARTON FORMS UNDER THE DEAD WEIGHT OF THE CONCRETE.
   B. PROTECT THE CARTON FORMS FROM DESTRUCTION DUE TO RAIN WATER AND REPLACE THE CARTON FORMS IF THEY BECOME SATURATED AND WEAK.
   C. USE END CAPS TO CAP OFF THE DISCONTINUOUS ENDS OF CARTON FORMS AT CORNERS AND PIERS TO PREVENT SOIL OR CONCRETE FROM ENTERING VOID. SEE A/CES-1.
   D. BUTT CARTON FORMS INTO SIDES OF PIER. DO NOT LEAVE GAP BETWEEN FACE OF PIER AND CARTON FORM, BUT DO NOT ALLOW ANY PART OF CARTON FORM TO FALL WITHIN PIER CIRCUMFERENCE. END CAPS AT PIERS SHALL BE CIRCULAR. SEE A/CES-1.
   E. JOIN CARTON FORMS TOGETHER TIGHTLY AT JOINTS AND COVER WITH SEAM PADS HELD IN PLACE WITH NAILS. DO NOT LEAVE GAPS BETWEEN UNITS. SEE A/CES-1.
   F. PLACE CARTON FORMS ON SMOOTH, LEVEL SURFACE.
   G. DO NOT PUNCTURE CARTONS WITH BAR CHAIRS. USE SAND PLATES OR SUSPEND REINFORCING CAGES FROM THE TOP.
7. VOID DEPTH SHOWN ON THIS SHEET IS _____ INCHES.

BUILDING PAD PREPARATION

1. THE BUILDING PAD PREPARATION REQUIREMENTS ARE BASED ON THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT PREPARED BY RABA KISTNER, DATED APRIL 12, 2024, REPORT NUMBER ASA24-011-00 FOR A POTENTIAL VERTICAL RISE (PVR) OF 1.0 INCHES.
2. STRIP ALL VEGETATION, ORGANIC TOP SOIL AND CLAY WITHIN THE BUILDING LINES TO A DEPTH OF 1'-0" BELOW EXISTING GRADE OR DOWN TO TOP OF EXISTING MATT FOOTINGS.
3. JUST PRIOR TO FILL PLACEMENT, SCARIFY EXPOSED SUBGRADE AND COMPACT TO 95 PERCENT OF THE MAXIMUM DENSITY (TEST METHOD _____) AT A MOISTURE CONTENT OF ____ TO ____ PERCENT ABOVE OPTIMUM. WHERE EXPOSED SUBGRADE IS PREDOMINANTLY LIMESTONE, PROOF ROLL TO DETECT ANY SOFT SPOTS AND REMOVE THE SOFT MATERIALS.
4. PLACE AND COMPACT SELECT FILL TO THE REQUIRED ELEVATION (____ INCHES BELOW BOTTOM OF FLOOR SLAB). SELECT FILL SHALL HAVE A PLASTICITY INDEX BETWEEN _____ AND _____ WITH A LIQUID LIMIT LESS THAN _____. PLACE FILL IN LIFTS NOT TO EXCEED 8" (LOOSE MEASURE), COMPACTING EACH LIFT TO 95 PERCENT OF MAXIMUM DENSITY AT A MOISTURE CONTENT OF ____ TO ____ PERCENT ABOVE OPTIMUM.
5. CONTRACTOR SHALL CONTACT THE OWNER'S GEOTECHNICAL ENGINEER AT LEAST 7 DAYS BEFORE THE START OF FILLING OPERATIONS FOR THE BUILDING PAD. COMPACTION AND MOISTURE CONTENT OF SUBGRADE AND EACH LIFT OF FILL SHALL BE TESTED BY THE GEOTECHNICAL ENGINEER (OR HIS DESIGNATED REPRESENTATIVE) AND APPROVED BEFORE PLACING NEXT LIFT. ADJUST MOISTURE CONTENT AND RECOMPACT WHERE REQUIRED.
6. SELECT FILL PLACED OUTSIDE THE GRADE BEAM LINES SHALL BE REMOVED AND REPLACED WITH ON-SITE CLAY BACKFILL.
7. SELECT FILL MATERIAL WHICH IS NOT PURCHASED FROM AN APPROVED PLANT, SUCH AS ON-SITE OR PRIVATELY OWNED PIT MATERIAL, MUST BE CONTINUOUSLY MONITORED BY AN APPROVED TESTING LABORATORY HIRED AND PAID BY CONTRACTOR.
8. SELECT FILL MATERIAL MUST PROVIDE A SOLID WORKING PAD FOR OTHER TRADES DURING WET WEATHER. ALL SOFT SPOTS MUST BE RECOMPACTED PRIOR TO CONCRETE PLACEMENT. IF ON-SITE OR PRIVATE PIT MATERIAL IS USED, PLANT MATERIAL CONFORMING TO TXDOT TYPE A, GRADE 1 IS REQUIRED FOR THE TOP LIFT.
9. ANY TRENCHES OR OTHER DISTURBANCES TO THE BUILDING PAD PREPARATION BY OTHER TRADES SHALL BE REPAIRED IN ACCORDANCE WITH TYPICAL DETAIL.

SLAB-ON-GRADE

1. FLOOR SLAB SHALL BE 5-INCH THICK CONCRETE SLAB-ON-GRADE.
2. REINFORCE SLAB WITH #3@12" O.C., E.W., PLACED 1 1/4" CLEAR FROM TOP OF SLAB.
3. SLABS-ON-GRADE POURS SHALL NOT EXCEED 10,000 SQUARE FEET.
4. PROVIDE ONE OF THE FOLLOWING JOINTS ON THE CENTER LINES OF ALL COLUMNS AND AT A MAXIMUM SPACING OF 12'-0" ON CENTER, EACH WAY, WHERE CONCRETE SLAB IS EXPOSED.
   A. CONSTRUCTION JOINTS WHERE DETAILED ON DRAWINGS.
   B. SAW-CUT CONTROL JOINTS ELSEWHERE. DEPTH SHALL BE A MINIMUM OF 1/4 OF THE SLAB THICKNESS. SAW CUTS SHALL BE MADE AS SOON AS SLAB CAN SUPPORT WORKERS AND EQUIPMENT AND BEFORE SHRINKAGE CRACKS OCCUR.
1. A METAL CONSTRUCTION JOINT FORM MAY BE USED. REMOVE METAL FORMS BEFORE PLACING SECOND POUR.

3/4" = 1'-0"

5

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St. Tel 210.222.8059
Suite 200
San Antonio, TX 78205
United States

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

ARUP
MEP, Lighting, Security, and Acoustics Consultant
ARUP
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.782.2787

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
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Tel 210.375.9000

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Landscape Architect
OJB
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Tel 713.529.9919

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7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

DATUM ENGINEERS
Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
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Development Manager
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

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Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
EXPANSIVE CLAY SOIL DETAILS

Scale
3/4" = 1'-0"

S3.01

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Austin Chicago Dallas San Antonio
512.469.9490 312.796.0180 214.393.0179 210.858.2880
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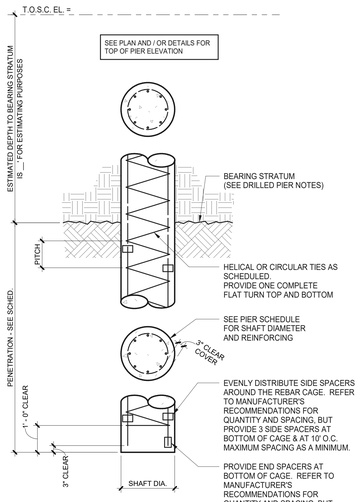

DRILLED PIER

TYPICAL DETAIL

NO SCALE

6

PIER SCHEDULE

TYPE	SHAFT DIAMETER	VERTICAL BARS	SPIRALS	PENETRATION
P1	18"	9#9	#4@12	5'-0"

GRADE BEAM OR WALL TO PIER

TYPICAL DETAIL

NO SCALE

7

BAR LAP

NOTE: CIRCULAR TIES THUS: ○ MAY BE USED IN LIEU OF HELICAL TIES. BAR SIZE WILL REMAIN THE SAME. SPACING OF THE TIES SHALL BE 12" O.C. BAR LAP SHALL BE 48 BAR DIAMETERS. (PROVIDE 48 BAR DIA. LAP SPLICE)

STANDARD PIER REINFORCING SCHEDULE

SHAFT DIAMETER	VERTICAL BARS	HELICAL TIES
12"	1#10	-
18"	6#6	#3@6
24"	6#8	#3@6
30"	9#8	#3@12
36"	8#10	#3@12
42"	11#10	#4@12
48"	12#11	#4@18
54"	15#11	#4@18
60"	19#11	#5@18
66"	22#11	#5@18
72"	27#11	#5@18

NOTE:
SEE PIER SCHEDULE FOR SIZE OF PIERS USED ON THIS PROJECT.

3/4" = 1'-0"

8

DRILLED PIER NOTES:

1. PIER DRILLING MUST BE INSPECTED BY THE OWNER'S GEOTECHNICAL ENGINEER. CONTRACTOR SHALL CONTACT THE GEOTECHNICAL ENGINEER AT LEAST 2 DAYS IN ADVANCE OF DRILLING TO COORDINATE INSPECTION.
2. FOUNDATION DESIGN IS BASED ON AN ALLOWABLE SOIL BEARING VALUES, BELOW, AS RECOMMENDED IN THE SOIL REPORT, PREPARED BY RABA KISTNER, DATED APRIL 12, 2024.

STORAGE AND PUMP ROOM (FFE: APPROXIMATELY 635 FT. MSL)			
ESTIMATED ELEVATION (FT.MSL)	ALLOWABLE SIDE SHEAR RESISTANCE (KSF)	ALLOWABLE AXIAL END-BEARING (KSF)	ALLOWABLE UPLIFT RESISTANCE (KSF)
620 AND ABOVE	NEGLECT	NEGLECT	NEGLECT
620(1) TO 579	2.0	40.0	1.0

3. BEARING STRATUM SHOWN ON THE PIER DETAILS IS CLAYSHALE.
4. DISTRIBUTION OF THE VARIOUS PIER TYPES IS INDICATED ON THE PIER PLAN.
5. PIER SIZES, REINFORCING, AND DEPTHS ARE SHOWN IN THE PIER SCHEDULE ON SHEET S3.02.
6. THE CONTRACTOR SHALL VERIFY DEPTHS OF PIERS BEFORE PIER STEEL IS CUT. PIER STEEL SHALL BE DELIVERED TO THE JOBSITE IN STANDARD STOCK LENGTHS AND CUT AS REQUIRED BY THE ACTUAL FIELD MEASURED DEPTH OF THE PIER. SPLICES IN VERTICAL REINFORCING SHALL BE __ BAR DIAMETERS, AND REINFORCING SHALL EXTEND TO 3 INCHES FROM BOTTOM OF HOLE, UNLESS SHOWN OTHERWISE.
7. THE CONTRACTOR SHALL TAKE ACCURATE MEASUREMENTS OF THE DEPTH OF PENETRATION INTO THE BEARING STRATUM, TO BE ASSURED OF CONFORMANCE WITH THE DEPTH OF PENETRATION REQUIRED BY THE PIER SCHEDULE, AND SUBMIT A REPORT OF DEPTHS OF PENETRATION DRILLED TO THE ENGINEER.
8. REINFORCING STEEL SHOP DRAWINGS SHALL INCLUDE DRAWINGS FOR PLACING OF TEMPLATES TO SET DOWELS IN PIERS.
9. PIER HOLES SHALL BE COMPLETED AND FILLED WITH CONCRETE WITHIN 8 HOURS AFTER THE START OF ANY DRILLING IN THE PENETRATION ZONE.
10. ELEVATION OF TOP OF PIERS, WHERE NOT GIVEN, IS AT THE BOTTOM OF THE DEEPEST INTERSECTING BEAM OR WALL SUPPORTED BY THE PIER. CONTRACTOR SHALL CALCULATE ALL TOP OF PIER ELEVATIONS BEFORE PROCEEDING WITH THE PIER DRILLING OPERATION.
11. REMOVE EXCESS CONCRETE AT THE TOP OF THE PIER BEYOND THE LIMITS OF THE PIER DIAMETER. FORM SIDES OF PIER EXTENSIONS TO THE SAME DIAMETER AS SHAFT BELOW, AVOIDING OVERHANGS IN EXPANSIVE CLAY. USE SUREVOID COMMERCIAL SURETOP OR SONOTUBE COLLAR FORMS AT TOP OF EACH HOLE TO MAINTAIN SHAPE.
12. DRILL PIERS AFTER ALL SOIL TREATMENT, FILLING, AND COMPACTION HAVE BEEN COMPLETED IN THE AREA TO BE DRILLED. DISTURBED AREAS SHALL BE RECOMPACTED.
13. CONTRACTOR SHALL PROVIDE ADDITIONAL PIER REINFORCING STEEL (CIRCULAR TIES, HELICAL TIES, AND/OR VERTICAL REINFORCING), AS REQUIRED TO FACILITATE PLACEMENT OF THE REINFORCING CAGE WITHOUT BUCKLING, COLLAPSING OR EXCESSIVE DEFLECTION.
14. PIERS SHALL NOT BE LARGER THAN THE DIAMETER SHOWN (PLUS 2-INCH TOLERANCE) IN ORDER TO LIMIT SURFACE AREA IN CONTACT WITH EXPANSIVE CLAY.
15. WHERE TWO PIERS ARE CLOSER TOGETHER THAN TWO TIMES THE DIAMETER OF THE LARGER PIER (CLEAR DISTANCE), WAIT AT LEAST 24 HOURS AFTER CASTING THE FIRST PIER BEFORE DRILLING THE SECOND.

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

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ARUP
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Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

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Pape-Dawson Engineers
2000 NW Loop 410
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Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
UNCASED STRAIGHT SHAFT PIERS

Scale
3/4" = 1'-0"

S3.02

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Austin Chicago Dallas San Antonio
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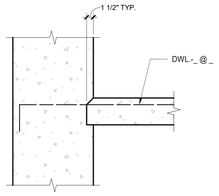
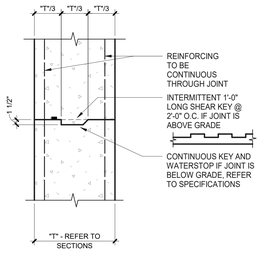


WALL TO SLAB CONSTRUCTION JOINT

TYPICAL DETAIL

NO SCALE

1



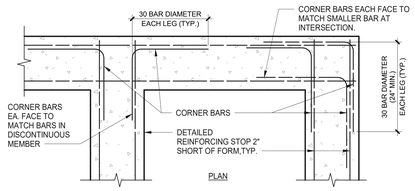
HORIZONTAL CONSTRUCTION JOINT IN BEAMS AND WALLS OR VERTICAL CONSTRUCTION JOINT IN WALLS

TYPICAL DETAIL

NO SCALE

2

NOTES:
1. PROVIDE CORNER BARS TO MATCH SIZE AND LOCATION OF ALL HORIZONTAL GRADE BEAM AND WALL BARS EXCEPT HOOKED TOP AND BOTTOM BARS.
2. CORNER BARS ARE NOT REQUIRED WHEN BEAM OR WALL BARS HAVE HOOKED ENDS. TURN HOOKS SIDEWAYS.



CORNER BARS AT WALL OR GRADE BEAM INTERSECTION

TYPICAL DETAIL

NO SCALE

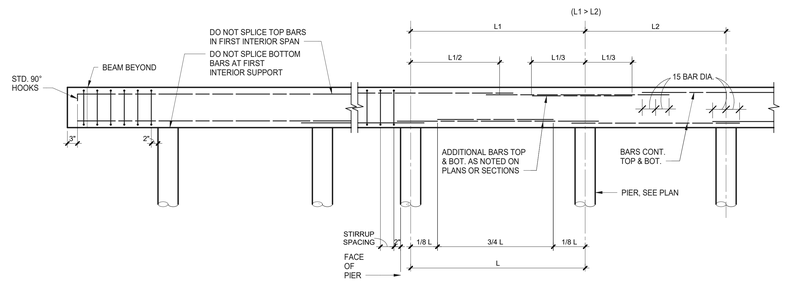
3

B		
A		C

DOWEL SCHEDULE

MARK	SIZE	A	B	C
DWL. A	#4	8"	3'-0"	---
DWL. B	#4	3'-0"	3'-0"	---
DWL. C	#4	---	4'-0"	---
DWL. D	#6 THD.	---	4'-0"	---
DWL. E	#4 THD.	---	3'-0"	---
DWL. F	#4 THD.	---	6'-0"	---

NOTES:
1. SCHEDULED DOWELS ARE MARKED "DWL." ON THE SECTIONS AND DETAILS.
2. DOWEL SPACING TO BE THE SAME AS VERTICAL BEAM OR WALL REINFORCEMENT, UNLESS OTHERWISE NOTED ON...
3. DOWELS WITH "THD" IN "SIZE" COLUMN SHALL BE THREADED DOWELS WITH APPROVED DOWEL BAR ANCHORS...

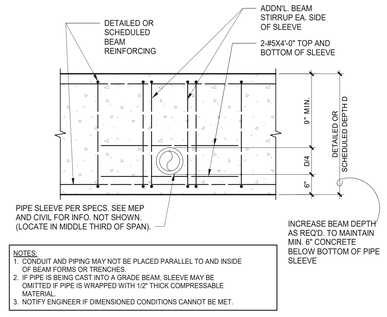


GRADE BEAM ELEVATION

TYPICAL DETAIL

NO SCALE

6



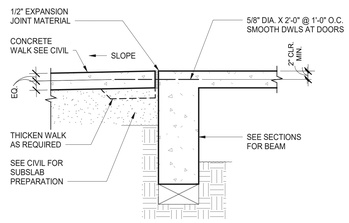
NOTES:
1. CONDUIT AND PIPING MAY NOT BE PLACED PARALLEL TO AND INSIDE OF BEAM FORMS OR TRENCHES.
2. IF PIPE IS BEING CAST INTO A GRADE BEAM, SLEEVE MAY BE OMITTED IF PIPE IS WRAPPED WITH 1/2" THICK COMPRESSABLE MATERIAL.
3. NOTIFY ENGINEER IF DIMENSIONED CONDITIONS CANNOT BE MET.

SLEEVE THROUGH GRADE BEAM

TYPICAL DETAIL

NO SCALE

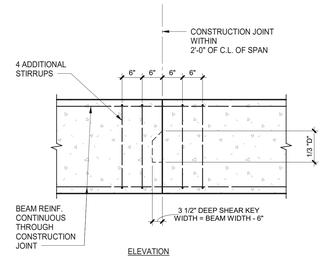
7



EXTERIOR WALK TO GRADE BEAM

TYPICAL DETAIL

8



BEAM VERTICAL CONSTRUCTION JOINT

TYPICAL DETAIL

NO SCALE

9

SHALLOW DROP IN TOP OF BEAM

TYPICAL DETAIL

NO SCALE

10

SETTING DOWELS IN EXISTING CONCRETE

TYPICAL DETAIL

NO SCALE

13

NEW CONCRETE BEAM TO EXISTING CONCRETE

TYPICAL DETAIL

NO SCALE

14

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317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
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Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
TYPICAL FOUNDATION AND GRADE BEAM DETAILS

Scale
3/4" = 1'-0"

S3.03

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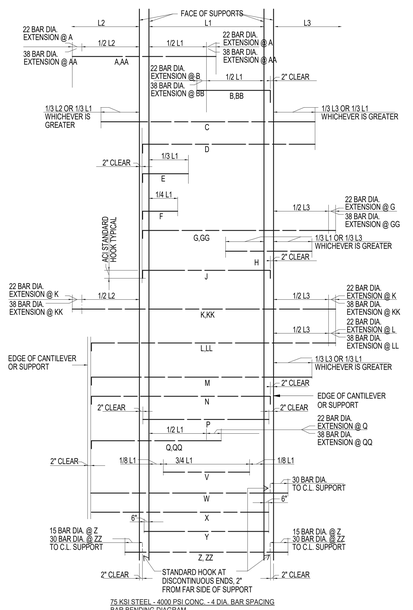
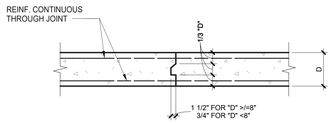


75 KSI STEEL - 4000 PSI CONC. - 4 DIA. BAR SPACING
BAR BENDING DIAGRAM

TYPICAL DETAIL

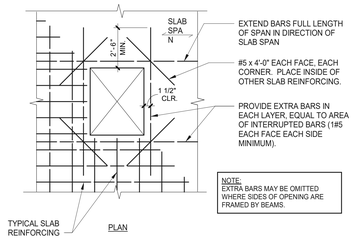


STRUCTURAL SLAB CONSTRUCTION JOINT

TYPICAL DETAIL

NO SCALE

3/4" = 1'-0" **2**

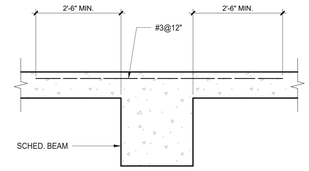


REINFORCING AT SLAB OPENING

TYPICAL DETAIL

NO SCALE

3/4" = 1'-0" **3**



ADDITIONAL REINF. OVER TOP OF BEAMS PARALLEL TO DIRECTION OF SLAB

TYPICAL DETAIL

NO SCALE

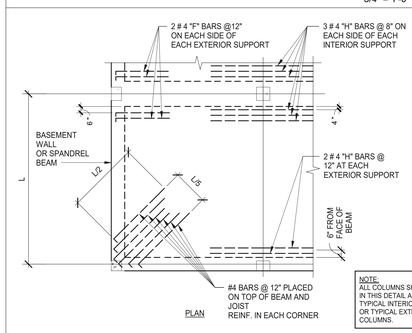
4

SLAB TEMPERATURE REINFORCING SCHEDULE

SLAB THICKNESS	BOTTOM TEMP. REINF.	TOP TEMP. REINF.
5" TO 7"	#4 @ 15"	NONE
8" TO 9"	#4 @ 12"	NONE
10" TO 11"	#4 @ 10"	NONE
12"	#4 @ 18"	#4 @ 18"
13" TO 14"	#4 @ 15"	#4 @ 15"
15" TO 18"	#4 @ 12"	#4 @ 12"
19" TO 21"	#5 @ 16"	#5 @ 16"
22" TO 27"	#5 @ 12"	#5 @ 12"

NOTES:
1. TEMPERATURE REINFORCEMENT SHALL BE PROVIDED PERPENDICULAR TO THE MAIN REINFORCEMENT IN ALL ONE-WAY SLABS IN AT LEAST THE ABOVE AMOUNTS. SUCH REINFORCEMENT SHALL BE EVENLY SPACED ACROSS THE ENTIRE WIDTH OF SLAB AND SHALL BE PLACED IN TWO LAYERS IN SLABS 12" OR MORE IN THICKNESS.
2. TEMPERATURE REINFORCEMENT SHALL BE TIED ABOVE SCHEDULED BOTTOM REINFORCEMENT AND BELOW SCHEDULED TOP REINFORCEMENT.

3/4" = 1'-0" **5**



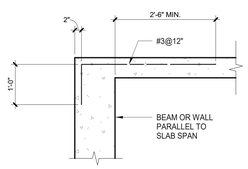
NOTE:
ALL COLUMNS SHOWN IN THIS DETAIL ARE TYPICAL INTERIOR OR TYPICAL EXTERIOR COLUMNS.

ADDITIONAL SLAB REINFORCING

TYPICAL DETAIL

NO SCALE

7

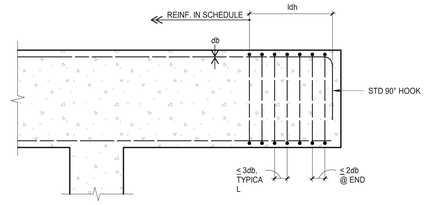


ADDITIONAL REINFORCING AT EXTERIOR BEAM OR WALL PARALLEL TO DIRECTION OF SLAB SPAN

TYPICAL DETAIL

NO SCALE

8



NOTE:
1. d_b = DIAMETER OF TOP REINFORCING BAR.
2.

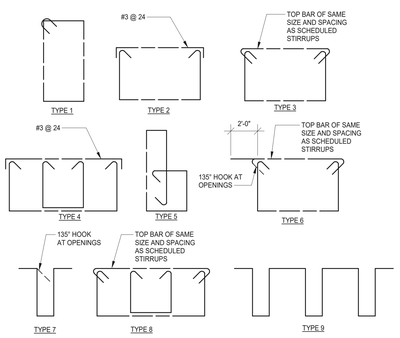
TOP REINF. SIZE	ldh (IN) fy = 60ksi	ldh (IN) fy = 75ksi
#4	10	12
#5	12	15
#6	15	18
#7	17	21
#8	19	24
#9	22	27
#10	25	31
#11	27	34

CONCRETE BEAM CANTILEVER END REINFORCEMENT

TYPICAL DETAIL

NO SCALE

3/4" = 1'-0" **10**



STIRRUP TYPES

TYPICAL DETAIL

NO SCALE

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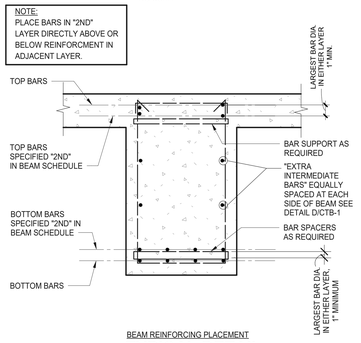
NOTE:
PLACE BARS IN "2ND" LAYER DIRECTLY ABOVE OR BELOW REINFORCEMENT IN ADJACENT LAYER.

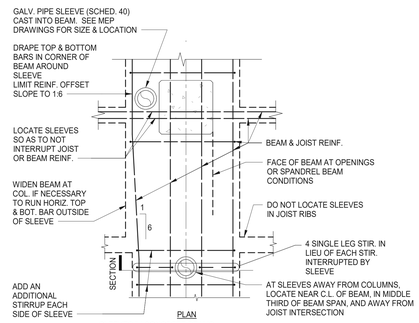


BEAM REINFORCING PLACEMENT

TYPICAL DETAIL

NO SCALE

3/4" = 1'-0" **12**



SLEEVES IN CONCRETE BEAMS

TYPICAL DETAIL

NO SCALE

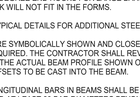
SLEEVES SHALL BE PLACED IN ONE LINE ALONG BEAM SPAN

NOTES:
1. ALWAYS LOCATE SLEEVES ON THE SIDES OF COL. AS SHOWN. DO NOT LOCATE ON THE BEAM TO COLUMN INTERSECTION FACES.
2. SEE DETAIL _____ FOR ADDITIONAL REINF. AT SLEEVES THRU SLABS.
3. SUBMIT SLEEVE LAYOUT PLAN FOR REVIEW PRIOR TO INSTALLATION.
4. MAXIMUM SLEEVE SIZE SHALL BE 6 IN. DIAMETER.
5. SPACING OF SLEEVES SHALL BE THE GREATER OF 6" OR 3 X LARGER SLEEVE DIA.

3/4" = 1'-0" **14**

BEAM SCHEDULE NOTES

1. GENERAL:
   - A. HOOKED END OF BAR TYPES "D", "G" AND "GG" SHALL BE LOCATED AT THE END WHERE THE BAR IS SHOWN IN THE SCHEDULE.
   - B. STEEL FABRICATOR SHALL DENOTE BAR TYPES ON THE SHOP DRAWINGS, USING THE SAME BAR DESIGNATION LISTED IN THE SCHEDULE. REPRODUCE THE SCHEDULE NOTES, THE BAR BENDING DIAGRAM AND THE CAST-IN-PLACE CONCRETE NOTES THAT APPLY TO STEEL PLACEMENT AND DELIVER WITH EACH SET OF SHOP DRAWINGS.
   - C. PROVIDE STIRRUP SUPPORT BAR AT TOP OF EACH STIRRUP LEG WHICH CANNOT BE SUPPORTED WITH A SCHEDULED TOP BAR. SIZE OF STIRRUP SUPPORT BAR SHALL MATCH SIZE OF STIRRUP. LAP STIRRUP SUPPORT BARS 1'-0" WITH SCHEDULED TOP BARS OR MAKE CONTINUOUS IF REQUIRED.
   - D. THE ENDS OF A BEAM NOTED AS LEFT AND RIGHT IN THE SCHEDULE ARE DETERMINED BY ORIENTING THE BEAM SO THAT THE BEAM MARK ON THE PLAN READS FROM LEFT TO RIGHT THUS:



   - E. PROVIDE 180 DEGREE END HOOKS FOR LARGE BARS IN SHALLOW BEAMS WHERE A 90 DEGREE HOOK WILL NOT FIT IN THE FORMS.
2. SEE PLANS AND TYPICAL DETAILS FOR ADDITIONAL STEEL NOT SHOWN IN SCHEDULE.
3. STIRRUP TYPES ARE SYMBOLICALLY SHOWN AND CLOSELY REPRESENT THE ACTUAL STIRRUP TYPE REQUIRED. THE CONTRACTOR SHALL REVIEW THE DRAWINGS AND FABRICATE THE STIRRUPS TO THE ACTUAL BEAM PROFILE SHOWN ON THE DRAWINGS, INCLUDING NOTCHES AND OFFSETS TO BE CAST INTO THE BEAM.
4. INTERMEDIATE LONGITUDINAL BARS IN BEAMS SHALL BE CONTINUOUS BETWEEN SUPPORTS AND SHALL EXTEND AT LEAST 60 BAR DIAMETERS BEYOND THE NEAR FACE OF SUPPORT AT EACH END. AT DISCONTINUOUS ENDS, WHERE THE SUPPORT WIDTH DOES NOT PERMIT THE REQUIRED BAR EXTENSION, PROVIDE A STANDARD 90 DEGREE HOOK 3" FROM THE FAR FACE. WHERE BEAM DEPTHS ARE 36" OR MORE, PROVIDE INTERMEDIATE BARS AS SHOWN IN DETAIL D/CTB-1, UNLESS MORE BARS ARE REQUIRED BY "EXTRA INTERMEDIATE BARS" IN THE BEAM SCHEDULE.
5. WHERE #14 AND #18 BARS ARE SCHEDULED TO LAP PER THE BAR BENDING DIAGRAM, PROVIDE MECHANICAL SPLICES PER SPECIFICATIONS IN LIEU OF LAPS. STAGGER SPLICES IN ADJACENT BARS BY 2'-0" MIN.

REMARKS: (APPLIES TO INDIVIDUAL BEAMS WHERE REFERENCED IN LAST COLUMN OF THE SCHEDULE.)

6. WHERE BEAM WIDTH VARIES IN PLAN, SEE _____ FOR REINFORCING LAYOUT AND ADDITIONAL REINFORCING IN EXTRA WIDTH, U.N.O.
7. PLACE BOTTOM REINFORCEMENT IN TWO LAYERS.
8. PLACE TOP REINFORCEMENT IN TWO LAYERS.
9. DRAPE TOP BARS AT SLAB DROPS AND BOTTOM BARS AT CHANGES IN BEAM DEPTH. DO NOT BEND BARS UNLESS DETAILED OR NOTED OTHERWISE.

3/4" = 1'-0" **20**

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St. Tel 210.222.8059
Suite 200
San Antonio, TX 78205
United States

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

ARUP
MEP, Lighting, Security, and Acoustics Consultant
ARUP
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.782.2787

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

OJB
Landscape Architect
OJB
711 Louisiana Street, Suite 111
Houston, TX 77002
Tel 713.529.9919

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

DATUM ENGINEERS
Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

MGAC
Development Manager
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

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Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
CONCRETE SLABS AND BEAMS

Scale
3/4" = 1'-0"

S3.04

DATUM ENGINEERS
www.datumengineers.com | Co. Reg. No. F-2819
7550 IH-10 West, Suite 1000 San Antonio, Texas 78229
210.485.9666 512.788.5180 214.393.0770 210.858.2880
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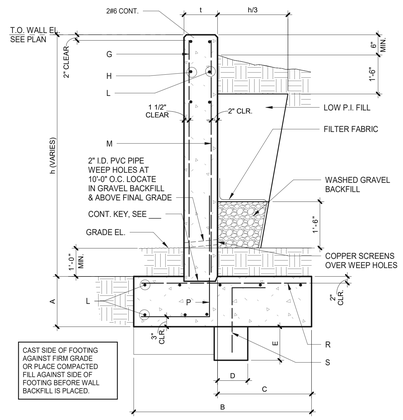
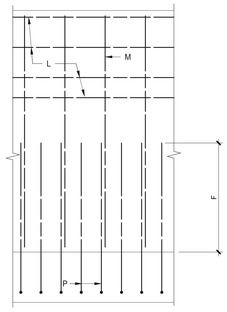


RETAINING WALL SECTION

TYPICAL DETAIL

6



RETAINING WALL ELEVATION

TYPICAL DETAIL

2

RETAINING WALL SCHEDULE

WALL HEIGHT h	DIMENSIONS							REINFORCEMENT SIZE AND SPACING							
	t	A	B	C	D	E	F	G	H	L	M	N	P	R	S
2'															
3'															
4'															
5'															
6'															
7'															
8'															
9'															
10'															
11'															
12'															
13'															
14'															

4

NOTES:

1. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI, A MAXIMUM WATER/CEMENT RATIO OF 0.45, 1" MAXIMUM AGGREGATE (ASTM C33) AND A MAXIMUM SLUMP OF 5". THE MIX SHALL CONTAIN 5 TO 7 PERCENT ENTRAINED AIR. CEMENT SHALL BE ASTM C150, TYPE I. OBTAIN CONCRETE FROM A QUALIFIED CONCRETE READY-MIX SUPPLIER HAVING A SUITABLE TEST RECORD FOR THE MIX.
2. FORMED SURFACES SHALL BE SMOOTH, FREE OF OFFSETS AND BUG HOLES. RUB SMOOTH IMMEDIATELY AFTER FORM REMOVAL. WALL FORMS SHALL REMAIN IN PLACE 24 HOURS.
3. APPLY CURING AND SEALING COMPOUND TO HORIZONTAL SURFACES IMMEDIATELY AFTER FINISHING AND TO VERTICAL SURFACES FOLLOWING FORM REMOVAL. CURING COMPOUND SHALL BE SEALCO 309 BY W. R. GRACE OR EQUAL.
4. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60. PROVIDE 30 BAR DIA. LAPS FOR SLAB REINFORCING AND 60 BAR DIA. LAPS FOR WALL REINFORCING.
5. THE FOOTING EXCAVATIONS SHALL BE MADE TO NEAT LINES AND SHALL BE FREE OF LOOSE OR WET MATERIALS. CONCRETE MAY BE PLACED DIRECTLY AGAINST THE SOIL WITHOUT FORMING.
6. WHERE SOFT AREAS ARE ENCOUNTERED, THE AREA SHALL BE UNDERCUT AS REQUIRED AND REPLACED WITH COMPACTED FILL OR CONCRETE. THE FILL SHALL BE PLACED IN LAYERS NOT TO EXCEED 1'-0" AND SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT OF MAXIMUM DENSITY, AS DETERMINED BY THE STANDARD PROCTOR MOISTURE _ DENSITY TEST, ASTM D 698.
7. BACKFILL OPERATIONS ADJACENT TO THE POND SHALL BE COMPLETED BEFORE BACKFILLING BEHIND THE WALL.
8. BACKFILL BEHIND WALL AFTER WALL HAS CURED. BACKFILL MATERIAL SHALL BE SELECT FILL WITH A PLASTICITY INDEX BETWEEN 2 AND 10, AND A LIQUID LIMIT LESS THAN 35 PERCENT. PLACE IN 8" LIFTS AND COMPACT EACH LIFT TO BETWEEN 90 AND 95 PERCENT OF THE MAXIMUM DRY DENSITY (ASTM D698 METHOD) AT OPTIMUM MOISTURE CONTENT (PLUS OR MINUS 2 PERCENT).
9. THE TOP 1'-0" OF MATERIAL SHALL CONSIST OF ON-SITE CLAY AND SHALL BE PLACED IN 6" LIFTS. COMPACT AT A MINIMUM OF 3 PERCENT ABOVE OPTIMUM MOISTURE TO 85 PERCENT OF ~~THAT OBTAINED BY ASTM D 698 COMPACTION PROCEDURES~~.

5

NOTES:
1. CONTROL JOINT SPACING NOT TO EXCEED 30'-0".
2. CONTINUE CONTROL JOINT OVER TOP OF WALL WHERE EXPOSED.

NOTE:
CONTROL OR CONTRACTION JOINT SPACING NOT TO EXCEED 30'-0".

RETAINING WALL CONTROL JOINT

TYPICAL DETAIL

7

NOTE:
EXPANSION JOINT SPACING NOT TO EXCEED 90'-0".

RETAINING WALL EXPANSION JOINT

TYPICAL DETAIL

8

NOTES:
PROVIDE CORNER BARS TO MATCH SIZE AND LOCATION OF ALL HORIZ WALL BARS AND OUTERMOST SET OF FOOTING BARS

PLAN

CORNER BARS AT WALL INTERSECTION

TYPICAL DETAIL

3/4" = 1'-0"

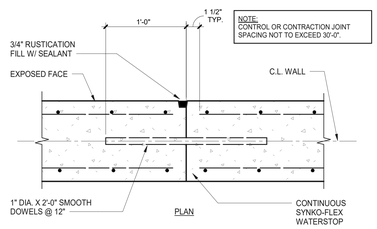
9

NOTE:
ALL VERT. BAR SPLICES IN WALLS TO BE 65 BAR DIA.

FOOTING/WALL CONSTRUCTION JOINT

TYPICAL DETAIL

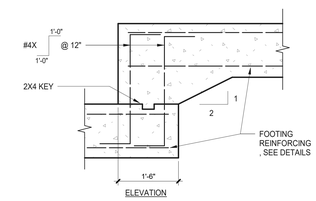
10



RETAINING WALL CONTRACTION JOINT

TYPICAL DETAIL

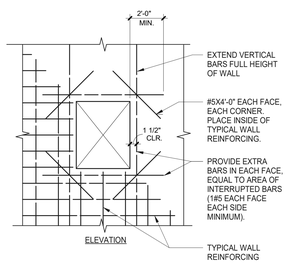
11



CHANGE IN RETAINING WALL FOOTING HEIGHT

TYPICAL DETAIL

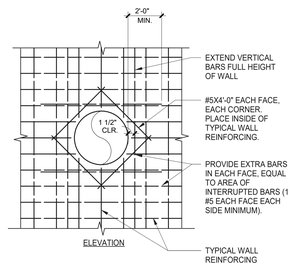
12



REINFORCEMENT AT RECTANGULAR WALL OPENING

TYPICAL DETAIL

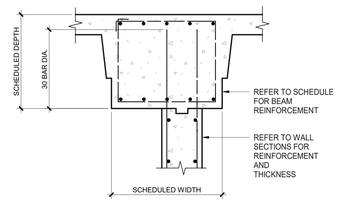
13



REINFORCEMENT AT CIRCULAR WALL OPENING

TYPICAL DETAIL

14



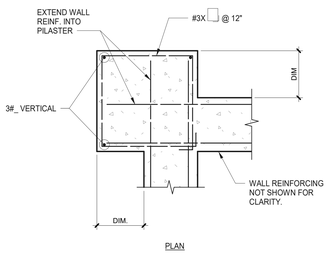
CONCRETE WALL TO BEAM CONNECTION

TYPICAL DETAIL

NO SCALE

3/4" = 1'-0"

15



RE-ENTRANT CORNER PILASTER

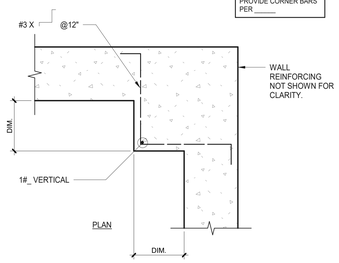
TYPICAL DETAIL

NO SCALE

3/4" = 1'-0"

16

NOTE:
PROVIDE CORNER BARS PER _____



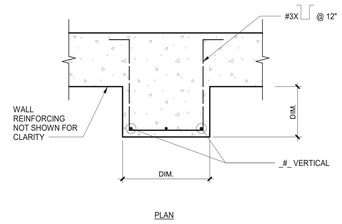
CORNER PILASTER

TYPICAL DETAIL

NO SCALE

3/4" = 1'-0"

17



WALL PILASTER

TYPICAL DETAIL

NO SCALE

3/4" = 1'-0"

18

ALAMO TRUST INC.

317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler

229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States

Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

ARUP
MEP, Lighting, Security, and Acoustics Consultant
ARUP
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.782.2787

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

OJB
Landscape Architect
OJB
711 Louisiana Street, Suite 111
Houston, TX 77002
Tel 713.529.9919

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

DATUM ENGINEERS
Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

MGAC
Development Manager
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

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Project Name

ALAMO SITE: AREA 5 - LOWER PASEO

Project Number

122.0076.500

Description

CONCRETE WALLS

Scale

3/4" = 1'-0"

S3.05

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www.datumengineers.com | Co. Reg. No. F-2819
Austin Chicago Dallas San Antonio
512.469.9966 312.796.5180 214.393.0179 210.858.2880
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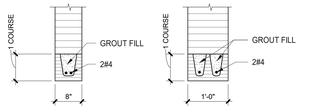
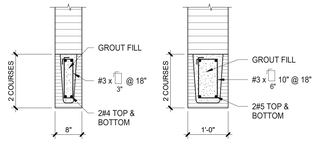
NOTES:
1. PROVIDE BLOCK LINTELS FOR ALL OPENINGS IN INTERIOR BLOCK PARTITION AND IN EXTERIOR BLOCK WALLS FOR WHICH STEEL LINTELS ARE NOT SCHEDULED.
2. SEE ARCHITECTURAL DRAWINGS FOR SIZE AND LOCATION OF OPENINGS.
3. PROVIDE 8" MINIMUM BEARING AT EACH END.
4. LINTEL SHALL REMAIN SHORED UNTIL MASONRY CONSTRUCTION ABOVE HAS CURED A MINIMUM OF 14 DAYS.
5. THIS DETAIL APPLIES TO NON-LOAD BEARING WALLS ONLY.
6. OPENINGS WIDER THAN 5'-0" SHALL HAVE THE FIRST VERTICAL CELL EACH SIDE REINFORCED WITH 1#4 AND GROUTED UP TO THE LINTEL BEARING LEVEL.
7. PRECAST CONCRETE LINTELS OF THE SAME SIZE AND LENGTH MAY BE SUBSTITUTED EXCEPT THAT TOP BARS SHALL BE PROVIDED EQUAL TO SCHEDULED BOTTOM BARS.



OPENINGS LESS THAN 5'-0" WIDE



OPENINGS 5'-0" WIDE TO 10'-0" WIDE MAXIMUM

LINTEL BLOCKS
TYPICAL DETAIL
NO SCALE

5

C.M.U. WALL AND REINFORCING SCHEDULE

	NOMINAL WALL THICKNESS	MAXIMUM HORIZONTAL OR VERTICAL SPAN UN-REINFORCED	ALLOWABLE HEIGHT RANGE WITH REINFORCING	VERT. REINF. IN GROUTED CELLS (TYPICAL)	VERT. REINF. IN GROUTED CELLS (END ZONES)
INTERIOR PARTITIONS	4"	6'-8"	———	———	———
	6"	10'-0"	10'-1" TO 20'-4"	**#4@48"**	———
	8"	13'-4"	13'-5" TO 23'-8"	**#4@48"**	———
	12"	20'-0"	20'-1" TO 29'-8"	#4@48"	———
EXTERIOR WALLS	4"	NOT ALLOWED			
	6"	——— 0' TO 9'-0" #4 @ 48"	9'-1" TO 11'-0"	**#4@32"**	#4@24"
			11'-1" TO 13'-8"	**#5@32"**	#5@16"
			13'-9" TO 14'-4"	**#5@24"**	#4@8"
	8"	——— 0' TO 12'-0" #4 @ 48"	12'-1" TO 13'-0"	**#5@48"**	#5@40"
			13'-1" TO 15'-6"	**#6@48"**	#6@40"
			15'-7" TO 18'-8"	**#6@32"**	#7@24"
	12"	——— 0' TO 18'-0" #5 @ 48"	18'-1" TO 19'-4"	**#6@48"**	#6@40"
			19'-5" TO 22'-6"	**#7@48"**	#7@40"
			22'-7" TO 27'-4"	**#7@32"**	#7@16"

NOTES:
1. SCHEDULE APPLIES TO ALL NON LOAD-BEARING CMU WALLS. REFER TO STRUCTURAL DRAWINGS FOR LOAD-BEARING WALLS AND REINFORCING SPLICE LENGTHS.
2. SCHEDULE DOES NOT APPLY TO 4" VENEER WALLS WHICH ARE TIED BACK TO THICKER WALLS.
3. CROSS WALLS AND CORNERS ARE CONSIDERED BRACE POINTS FOR HORIZONTAL SPAN OF UNREINFORCED WALLS IF WALLS ARE TIED TOGETHER WITH HORIZONTAL TRUSS TYPE REINFORCEMENT.
4. REFER TO DETAILS FOR BRACING AT TOP OF WALLS. CONTRACTOR SHALL PROVIDE TEMPORARY WALL BRACING UNTIL PERMANENT BRACING CONDITIONS HAVE BEEN COMPLETED.
5. WHEN CHASE WALLS EXCEED MAXIMUM HORIZONTAL OR VERTICAL SPANS, PROVIDE 1 1/4" WIDE x 3/16" THICK STEEL STRAP ANCHORS 2'-———'-2" AT 4'-0" ON CENTER, EACH WAY, BETWEEN WALL WYTHES.
6. IN UNREINFORCED WALLS, PROVIDE 1#5 IN VERTICAL GROUTED CELL, FULL HEIGHT OF WALL, EACH SIDE OF OPENINGS LARGER THAN 2'-0" WIDE IN 6" AND 8" WALLS. PROVIDE 2#5 BARS, ONE IN EACH FACE, IN 12" WALLS.
7. IN REINFORCED WALLS WHERE OPENINGS ARE NO WIDER THAN TWICE THE SPACING OF THE SCHEDULED REINFORCING, PLACE TWO BARS OF THE SCHEDULED SIZE IN THE FIRST CELL ADJACENT TO THE OPENING ON EACH SIDE OF THE OPENING. WHERE OPENINGS ARE WIDER THAN TWO TIMES THE SPACING OF THE SCHEDULED REINFORCING, REFER TO THE ARCHITECT FOR INSTRUCTIONS.
8. VERTICAL REINFORCING IN END ZONES, SHOWN IN RIGHTMOST COLUMN ABOVE, APPLIES TO WALL REGIONS WITHIN 24 FEET OF AN OUTSIDE CORNER OF THE BUILDING. TYPICAL VERTICAL REINFORCING SHALL BE USED IN OTHER AREAS.
9. PROVIDE FOUNDATION DOWELS TO MATCH MASONRY WALL REINFORCEMENT. DOWELS SHALL EXTEND A MINIMUM OF 60 BAR DIAMETERS ABOVE AND 30 BAR DIAMETERS BELOW TOP OF FOUNDATION. DOWELS FOR INTERIOR WALLS MAY BE DRILLED AND GROUTED IN CLEAN HOLES. SEE GENERAL NOTES.
10. REFER TO SPECIFICATIONS FOR MASONRY AND MORTAR TYPES AND STRENGTHS.

CMU WALL AND REINFORCING SCHEDULE
TYPICAL DETAIL

LOOSE LINTEL SCHEDULE

MASONRY OPENING	LINTEL SIZE	MAX. HT. OF BRICK ABOVE ④	MAX. HT. OF 4" CMU ABOVE ④
4'-0" OR LESS	L3 1/2x3 1/2x5/16	6'-0"	10'-4"
4'-1" TO 5'-0"	L4x3 1/2x5/16 LLV	5'-0"	8'-4"
5'-1" TO 6'-0"	L5x3 1/2x5/16 LLV	5'-0"	8'-4"
6'-1" TO 7'-0"	L6x3 1/2x3/8 LLV	7'-4"	12'-8"

NOTES:
1. PROVIDE 8" MINIMUM BEARING EACH END FOR LOOSE STEEL LINTELS.
2. ONE ANGLE SHALL BE PROVIDED FOR EACH WYTHE OF BRICK.
3. LINTELS SHALL BE HOT DIP GALVANIZED.
4. LINTEL SIZE MUST COMPLY WITH MAXIMUM HEIGHT OF MASONRY ABOVE LINTEL IF A VERTICAL CONTROL JOINT OR END OF WALL OCCURS ON ONE SIDE OF THE OPENING.
5. REFER TO STRUCTURAL "FRAMED LINTEL SCHEDULE AND DETAIL" FOR OPENINGS GREATER THAN 7'-0" WIDE.
6. NOTIFY STRUCTURAL ENGINEER IF CONDITIONS EXIST THAT DO NOT COMPLY WITH THIS SCHEDULE.

LOOSE LINTEL SCHEDULE
TYPICAL DETAIL

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512.469.9490 312.796.5180 214.358.0175 210.858.2880
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ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

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San Antonio, TX 78205
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ARUP
10370 Richmond Ave., Ste 475
Houston, TX 77042
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2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

OJB
Landscape Architect
OJB
711 Louisiana Street,
Suite 111
Houston, TX 77002
Tel 713.529.9919

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

DATUM ENGINEERS
Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
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MGAC
730 11th St NW
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Tel 512.828.7434

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△ Date Description

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Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
MASONRY LINTEL SCHEDULE AND DETAILS

Scale
As indicated

S3.06

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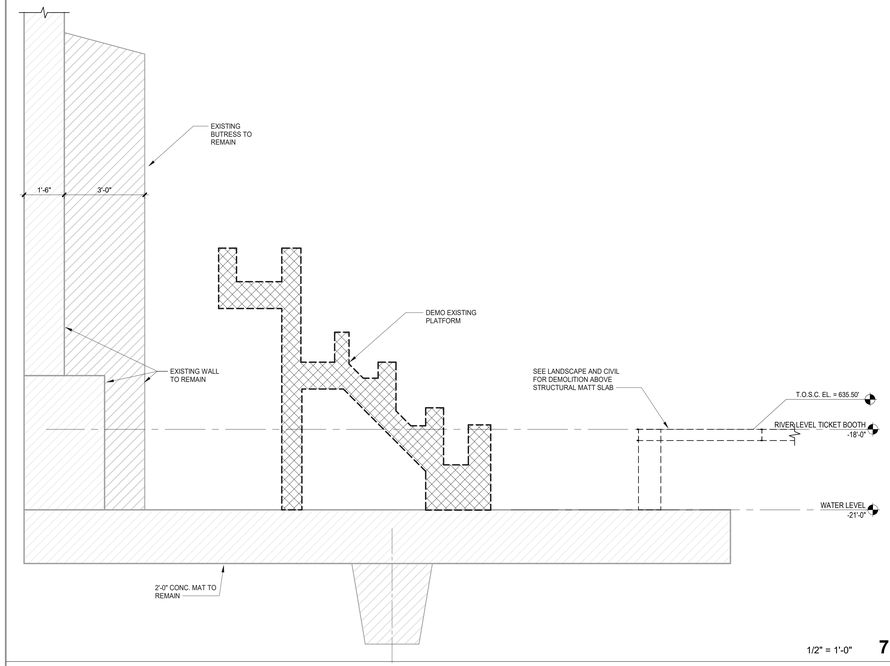

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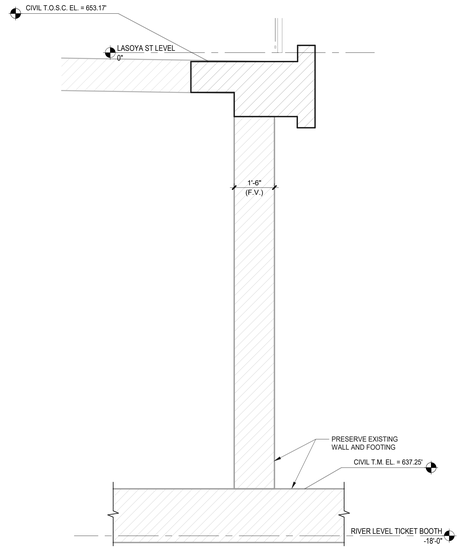

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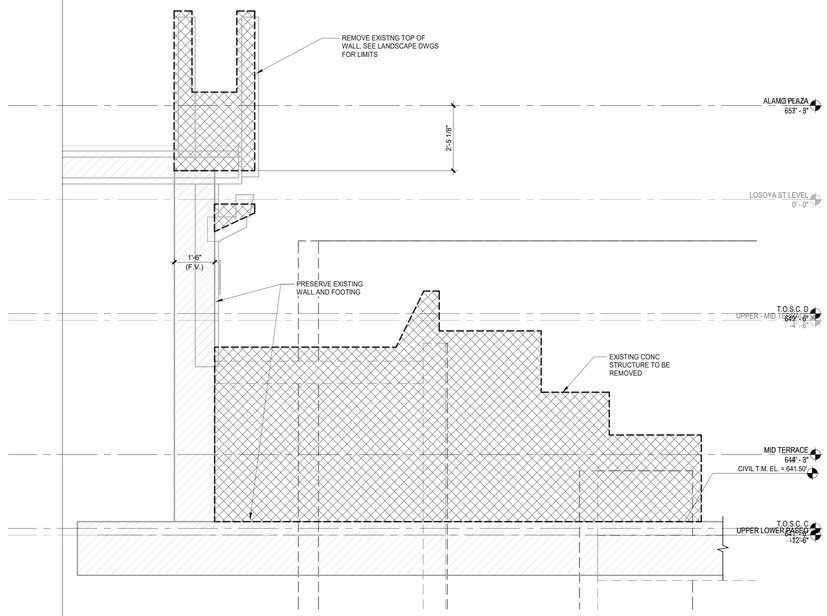

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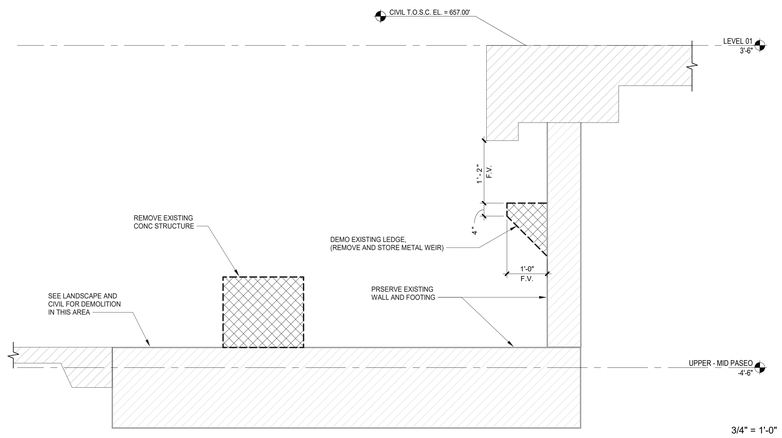

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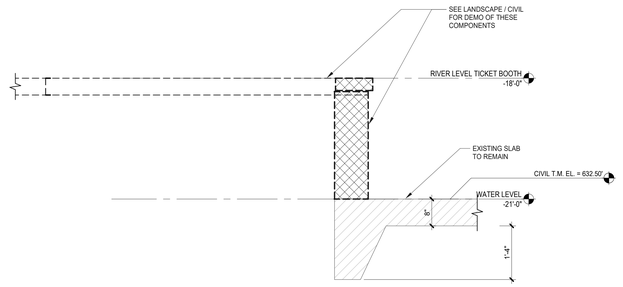

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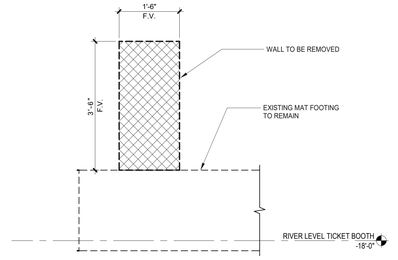

3/4" = 1'-0" **15**

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317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
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ARUP
10370 Richmond Ave., Ste 475
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Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
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Structural Engineer
Datum Engineers, Inc.
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San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

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Tel 210.375.9000

MGAC
Development Manager
MGAC
730 11th St NW
Washington, DC 20001
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△ Date	Description
08/10/2023	100% SCHEMATIC DESIGN
09/07/2023	DEMOLITION PACKAGE FOR ARCHEOLOGICAL PERMIT - WESTERN SCOPE
11/02/2023	100% DESIGN DEVELOPMENT
01/05/2024	SA DEMOLITION MOBILIZATION

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Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
DEMOLITION DETAILS

Scale
As indicated

S3.10

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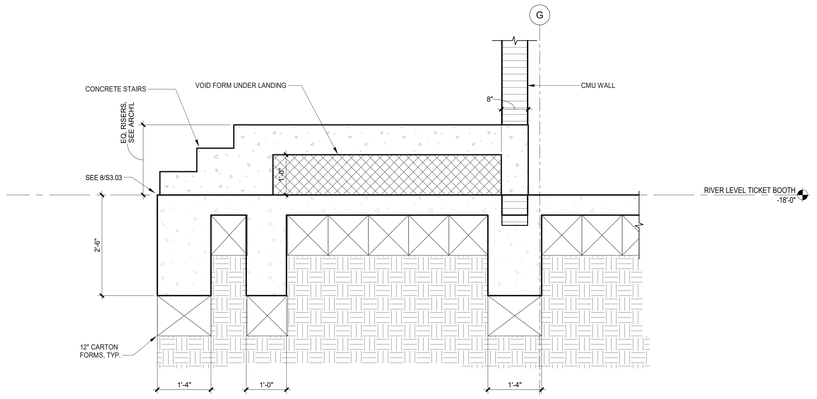

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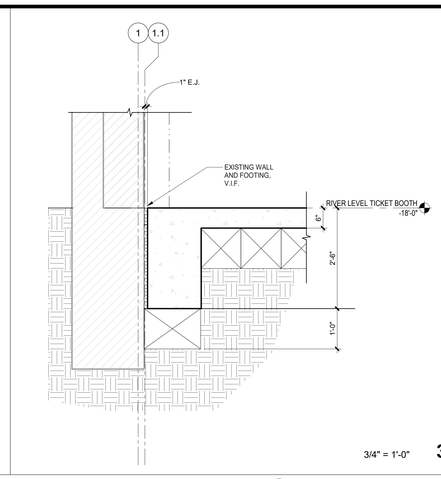

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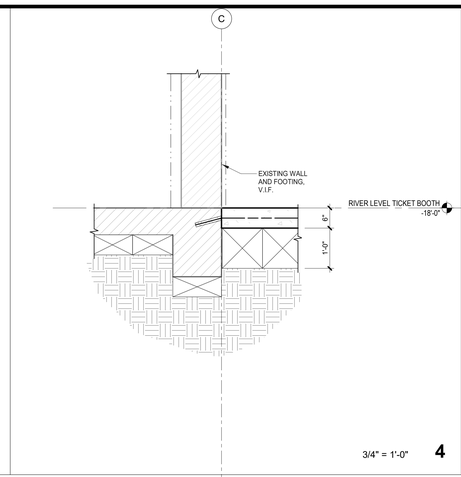

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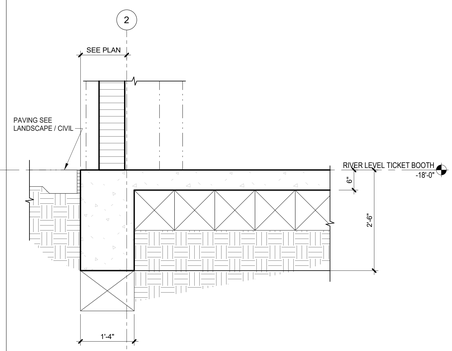

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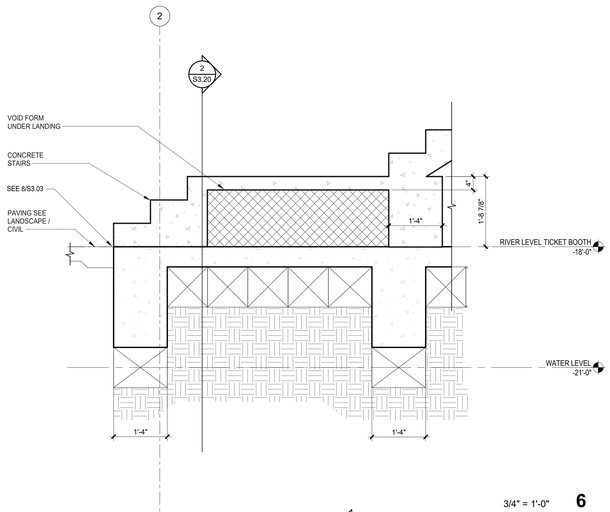
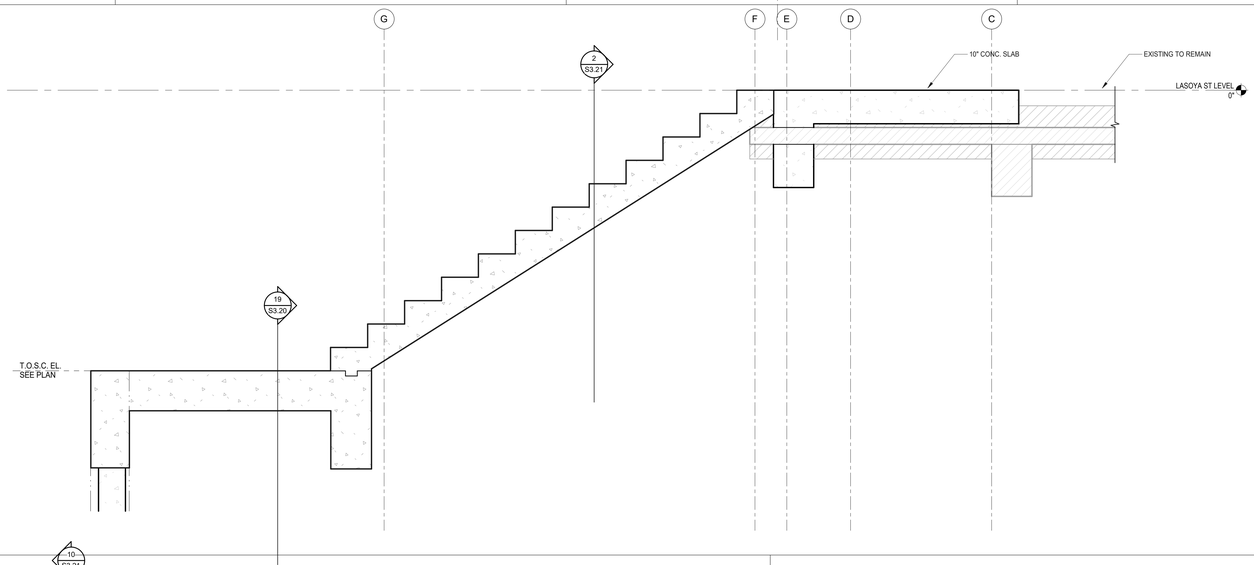


3/4" = 1'-0" **6**



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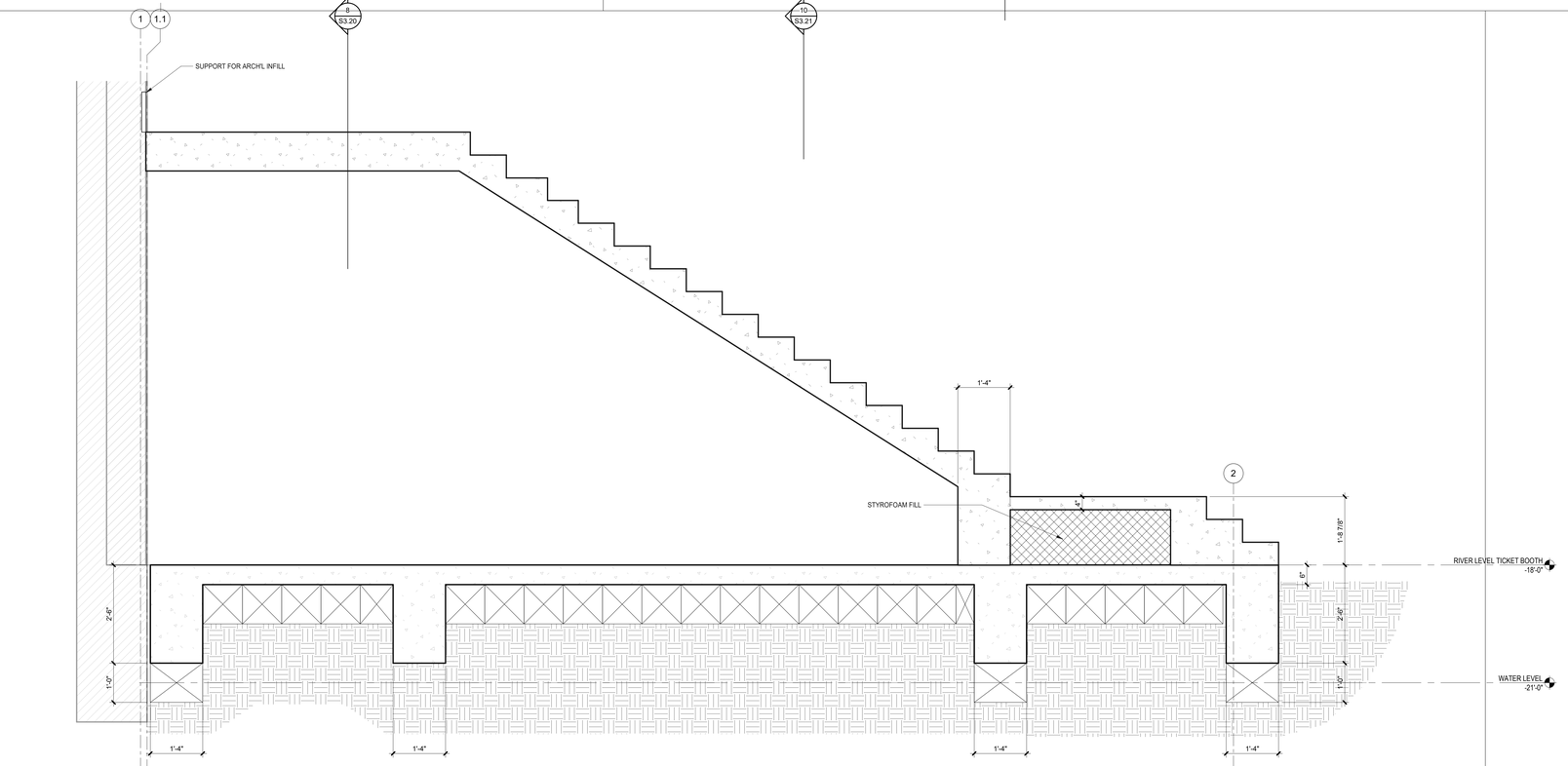

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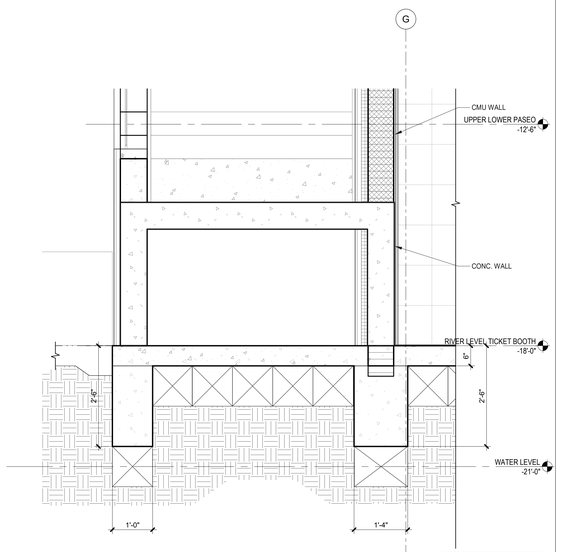

3/4" = 1'-0" **16**

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317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
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ARUP
MEP, Lighting, Security, and Acoustics Consultant
ARUP
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.782.2787

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

OJB
Landscape Architect
OJB
711 Louisiana Street,
Suite 111
Houston, TX 77002
Tel 713.529.9919

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

DATUM ENGINEERS
Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

MGAC
Development Manager
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

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Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
CONCRETE SECTIONS - RESTROOM AREA

Scale
3/4" = 1'-0"

S3.20

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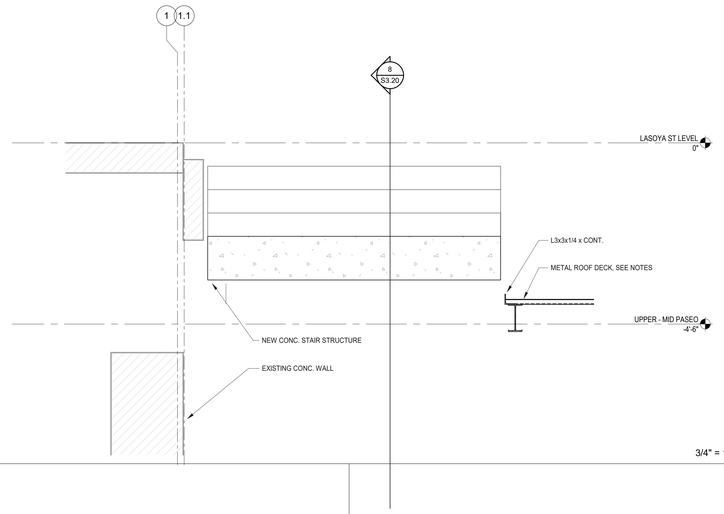

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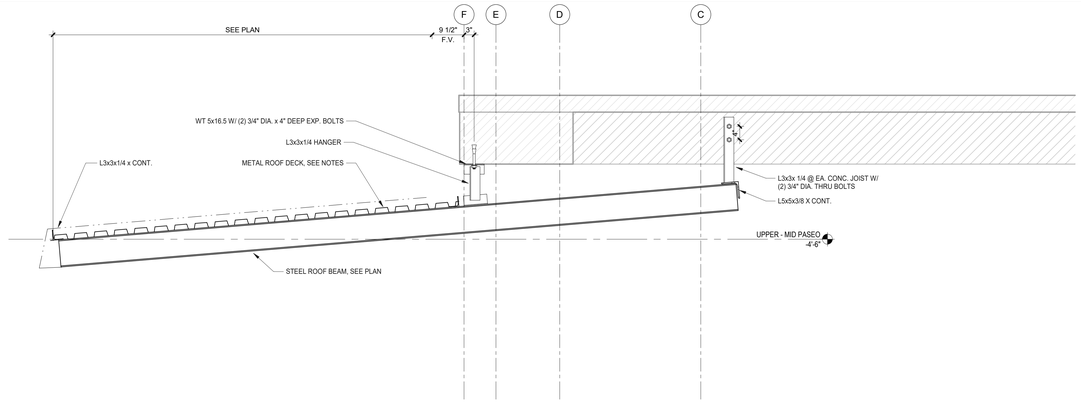
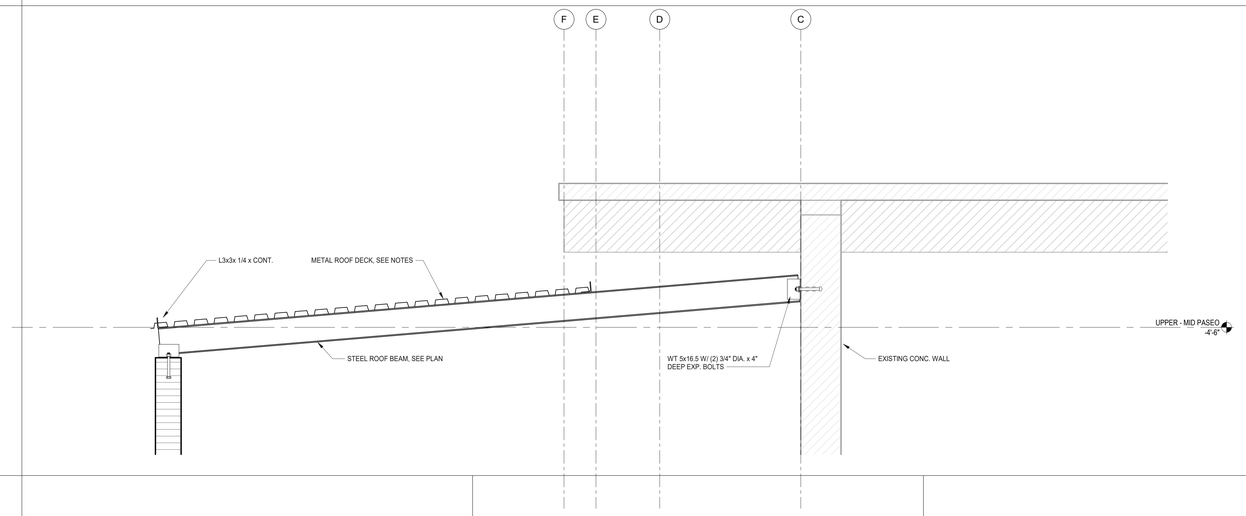


3/4" = 1'-0" **5**



3/4" = 1'-0" **10**

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317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler

229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States

Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

ARUP
MEP, Lighting, Security, and Acoustics Consultant
ARUP
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.782.2787

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
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OJB
Landscape Architect
OJB
711 Louisiana Street,
Suite 111
Houston, TX 77002
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AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

DATUM ENGINEERS
Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
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Development Manager
MGAC
730 11th St NW
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Project Name

ALAMO SITE: AREA 5 - LOWER PASEO

Project Number

122.0076.500

Description

CONCRETE SECTIONS - RESTROOM AREA

Scale

3/4" = 1'-0"

S3.21

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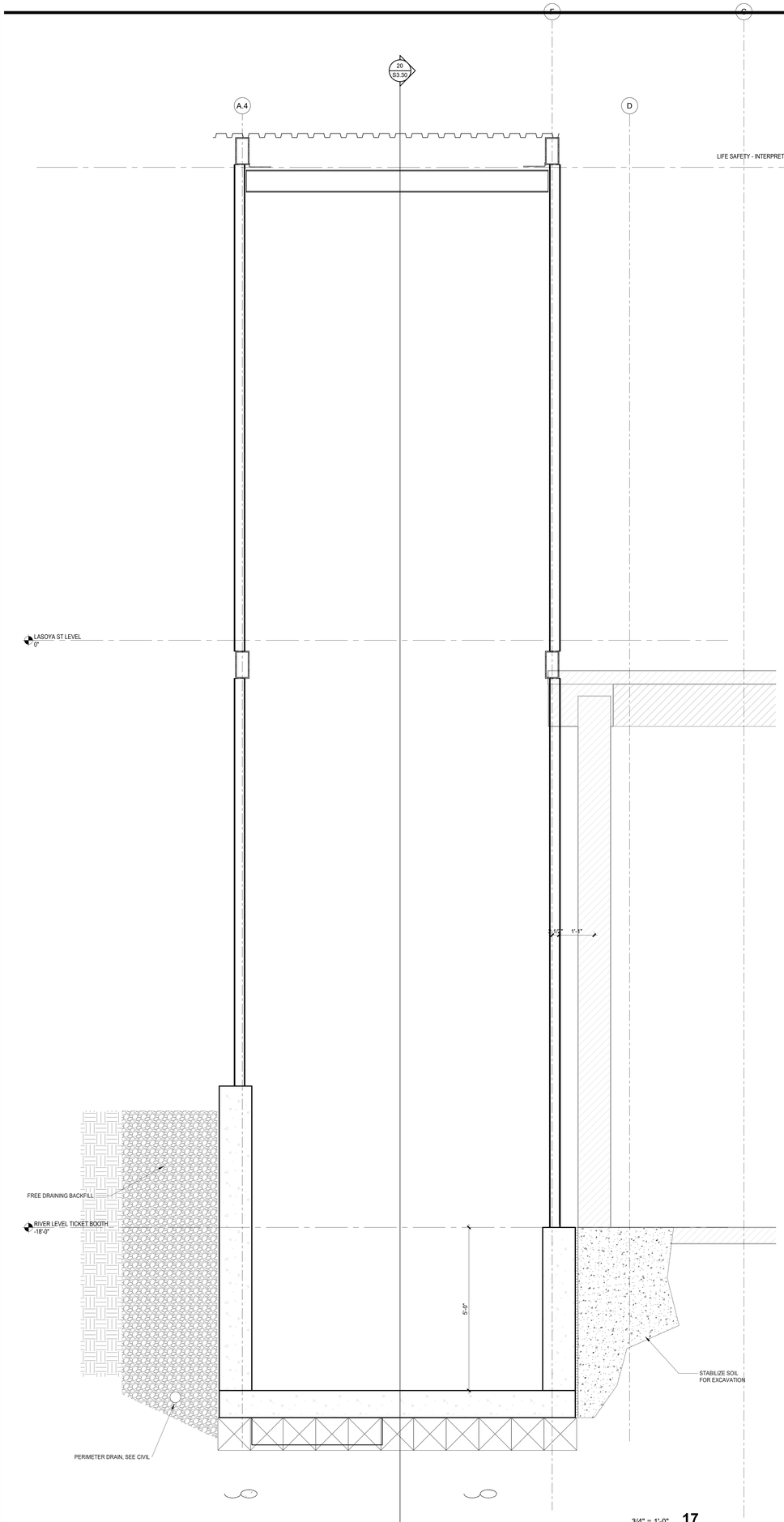

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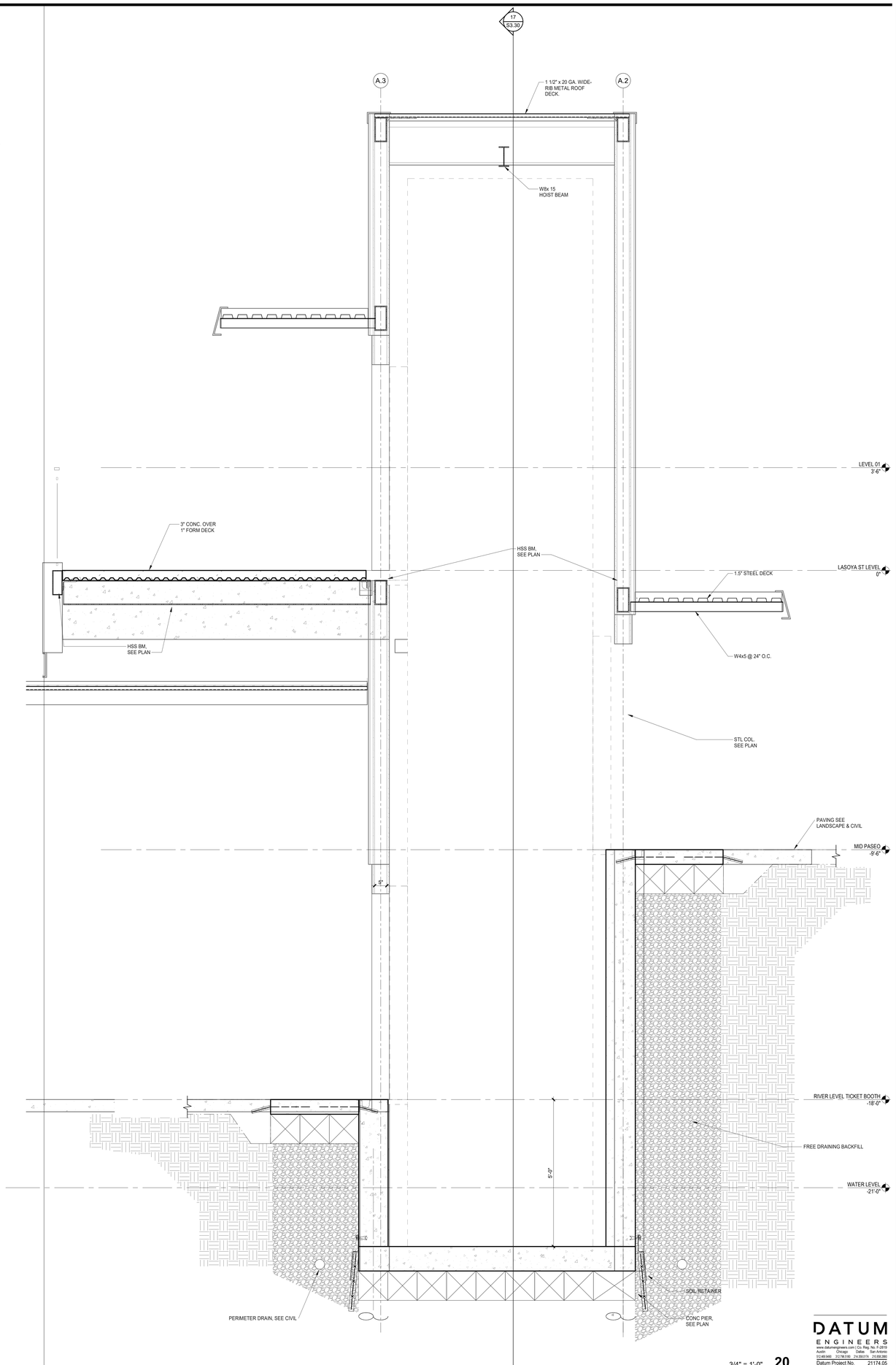

3/4" = 1'-0" **20**

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317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
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ARUP
MEP, Lighting, Security, and Acoustics Consultant
ARUP
10370 Richmond Ave., Ste 475
Houston, TX 77042
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DataCom Design Group, LLC.
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Austin, TX 78757
Tel 512.478.6001

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Structural Engineer
Datum Engineers, Inc.
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Fax F-2819

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MGAC
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Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
ELEVATOR SECTIONS

Scale
3/4" = 1'-0"

S3.30

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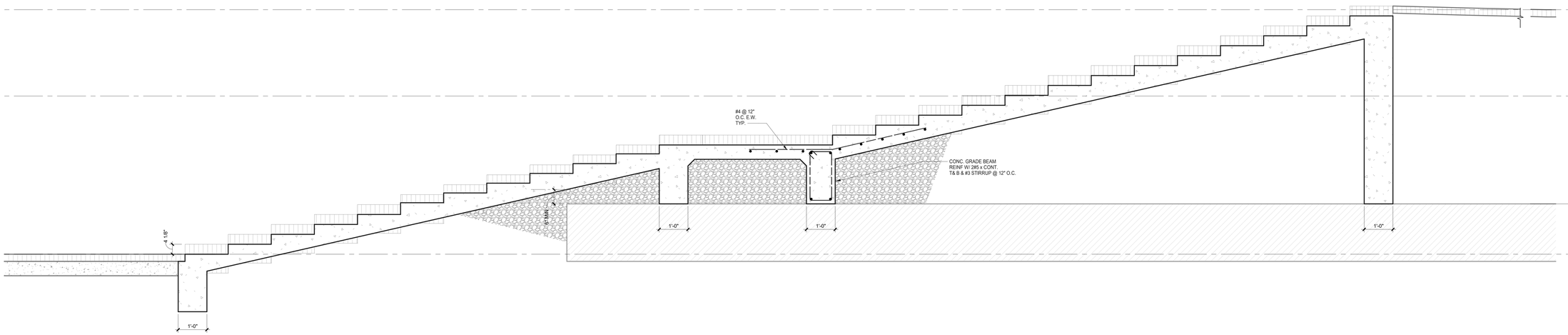
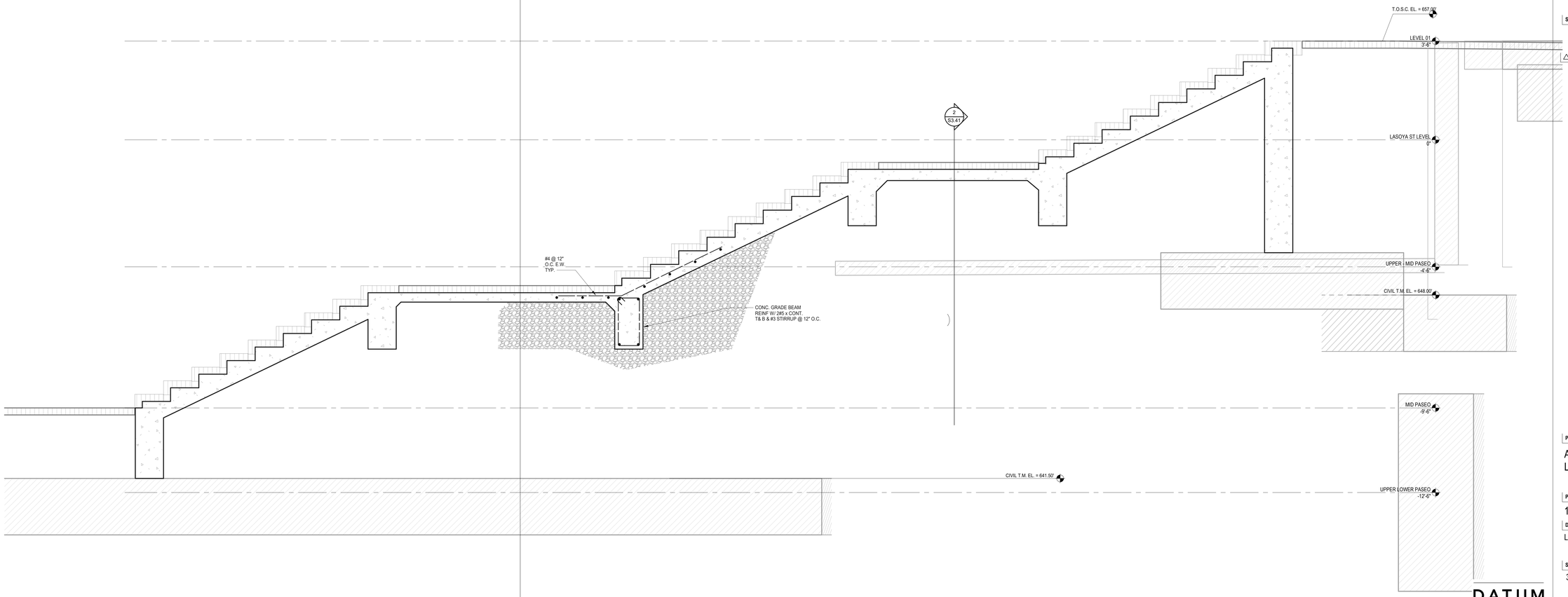


3/4" = 1'-0" **1**



3/4" = 1'-0" **20**

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317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

ARUP
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Project Name

ALAMO SITE: AREA 5 - LOWER PASEO

Project Number

122.0076.500

Description

LANDSCAPE STRUCTURES

Scale

3/4" = 1'-0"

S3.40

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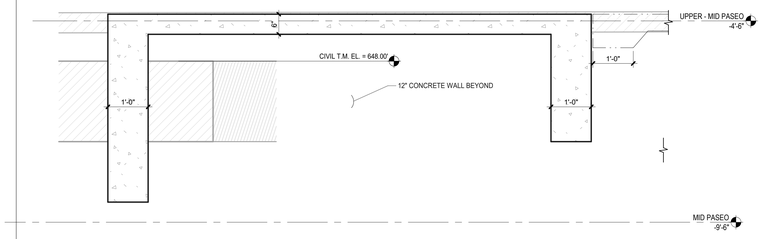
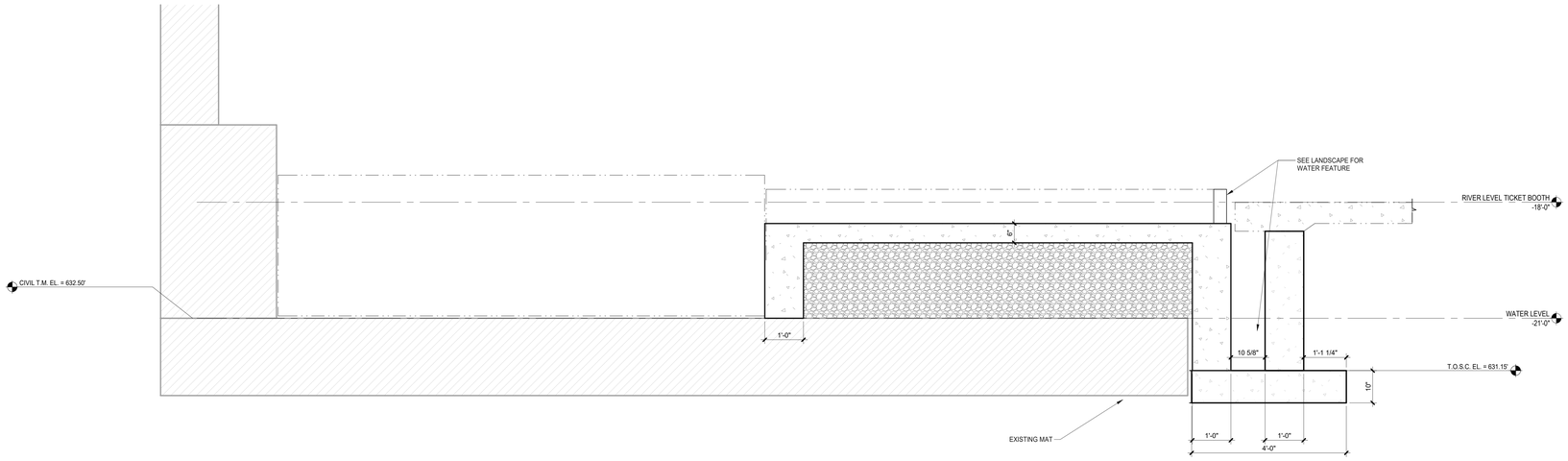
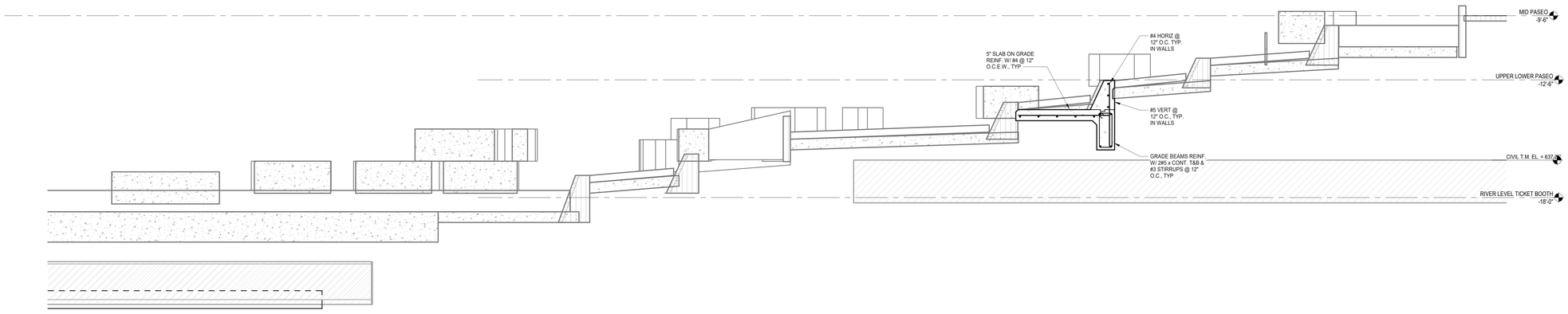


3/4" = 1'-0" **2**



3/4" = 1'-0" **5**



1/2" = 1'-0" **20**

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ALAMO TRUST INC.

317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler

229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

ARUP
MEP, Lighting, Security, and Acoustics Consultant
ARUP
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.782.2787

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

OJB
Landscape Architect
OJB
711 Louisiana Street,
Suite 111
Houston, TX 77002
Tel 713.529.9919

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

DATUM ENGINEERS
Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

MGAC
Development Manager
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

Seal / Signature

△ Date Description

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Project Name

ALAMO SITE: AREA 5 - LOWER PASEO

Project Number

122.0076.500

Description

LANDSCAPE STRUCTURES

Scale

As indicated

S3.41

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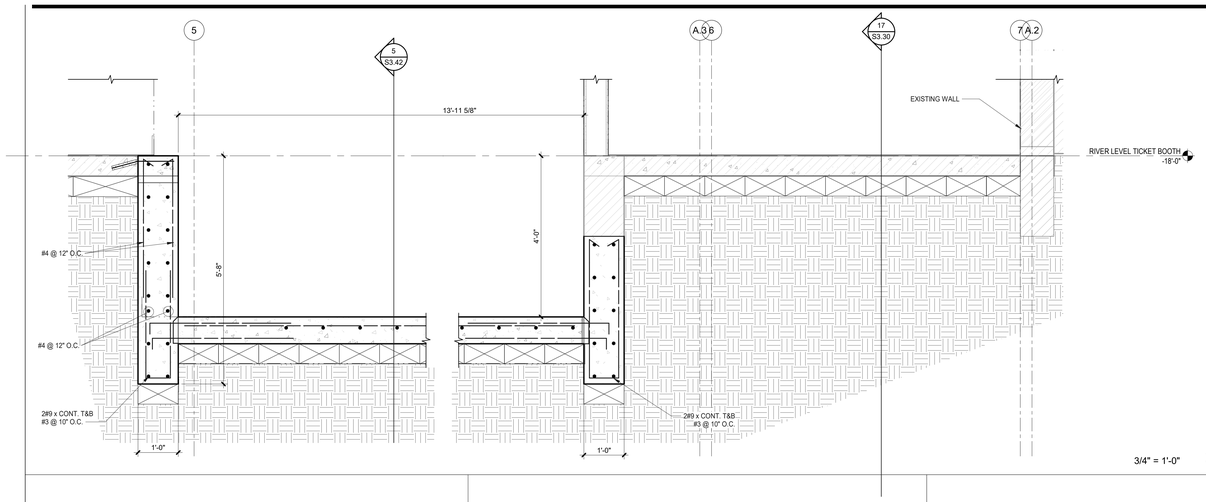
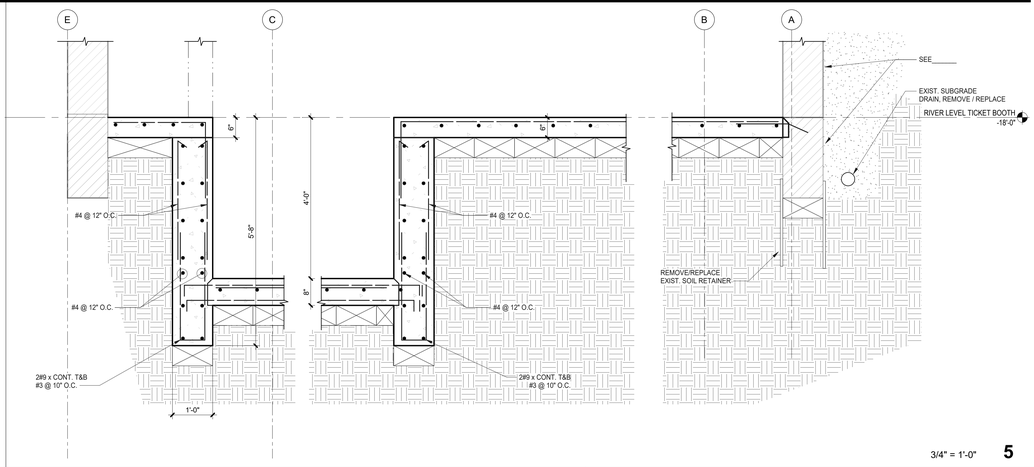


3/4" = 1'-0" **3**



3/4" = 1'-0" **5**

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

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300 Alamo Plaza, Suite 200
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Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
LANDSCAPE STRUCTURES

Scale
3/4" = 1'-0"

S3.42

DATUM ENGINEERS
www.datumengineers.com | Co. Reg. No. F-2819
Austin Chicago Dallas San Antonio
512.469.6466 312.796.1330 214.393.0179 210.858.2880
Datum Project No. 21174.05

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DUCTWORK SYMBOLS

SYMBOL	DESCRIPTION
32x20 / 12x6	DOUBLE-LINE AND SINGLE-LINE RECTANGULAR DUCT, FIRST NUMBER INDICATES SIDE IN VIEW IN INCHES, SECOND NUMBER INDICATES SIDE IN DEPTH IN INCHES
24ø / 12ø	DOUBLE-LINE AND SINGLE-LINE ROUND DUCT, NUMBER INDICATES DIAMETER IN INCHES
32x20(L2) / 12x6(L2)	ACOUSTICAL LINED DUCTWORK, SIZES GIVEN ARE CLEAR INSIDE DIMENSIONS IN INCHES
RorD / RorD	INCLINED RISE OR DROP IN DIRECTION OR AIR FLOW
	EXISTING DUCTWORK
	FLEXIBLE DUCT
	FLEXIBLE CONNECTION
	DIRECTION OF AIR FLOW
	TRANSITION / REDUCER
	RADIUS ELBOW WITH TURNING VANES & MITERED ELBOW WITH TURNING VANES
	VANED ELBOW OR RADIUS ELBOW (USE VANED ELBOW WHERE SPACE WILL NOT PERMIT THE USE OF LONG RADIUS ELBOW)
	DUCT - END CAP
	RECTANGULAR DUCT BRANCH
	CIRCULAR DUCT BRANCH
	RECTANGULAR SUPPLY AIR DUCT (UP AND DOWN)
	RECTANGULAR RETURN AIR DUCT (UP AND DOWN)
	RECTANGULAR EXHAUST AIR DUCT (UP AND DOWN)
	RECTANGULAR OUTSIDE AIR DUCT (UP AND DOWN)
	ROUND SUPPLY AIR DUCT (UP AND DOWN)
	ROUND RETURN AIR DUCT (UP AND DOWN)
	ROUND EXHAUST AIR DUCT (UP AND DOWN)
	ROUND OUTSIDE AIR DUCT (UP AND DOWN)
VD	VOLUME DAMPER
MD	MOTORIZED DAMPER
BDD	BACKDRAFT DAMPER
FD	FIRE DAMPER
SD	SMOKE DAMPER
FSD	COMBINATION FIRE/SMOKE DAMPER
SMD	DUCT SMOKE DETECTOR
TYPE (CFM)	AIR TERMINAL - SIDEWALL GRILLE/REGISTER (AIRFLOW DIRECTION AND TYPE SHOWN)
TYPE (CFM)	AIR TERMINAL - CEILING SUPPLY (AIRFLOW DIRECTION AND TYPE SHOWN)
TYPE (CFM)	AIR TERMINAL - CEILING RETURN (AIRFLOW DIRECTION AND TYPE SHOWN)
TYPE (CFM)	AIR TERMINAL - CEILING EXHAUST (AIRFLOW DIRECTION AND TYPE SHOWN)
TYPE (CFM)	AIR TERMINAL - CEILING SUPPLY - ROUND (AIRFLOW DIRECTION AND TYPE SHOWN)
TYPE (CFM)	AIR TERMINAL - CEILING RETURN - ROUND (AIRFLOW DIRECTION AND TYPE SHOWN)
TYPE (CFM)	AIR TERMINAL - CEILING EXHAUST - ROUND (AIRFLOW DIRECTION AND TYPE SHOWN)
	LINEAR DIFFUSER (AIR DIRECTION AND TYPE SHOWN)
AD	ACCESS DOOR
	TRANSFER DUCT WITH GRILLES
UC	UNDERCUT DOOR
	AIR FLOW ARROW (SUPPLY)
	AIR FLOW ARROW (RETURN/EXHAUST)
UP / DN	SLOPE DIRECTION ARROW

DUCTWORK SYMBOLS

SYMBOL	DESCRIPTION
	FAN - ROOF MOUNTED - MUSHROOM
	FAN - ROOF MOUNTED - UPBLAST
	FAN - CENTRIFUGAL
	FAN - CENTRIFUGAL PLUG/PLENUM
	FAN - AXIAL
	FILTER - BAG
	FILTER - PLEATED
	FILTER - CARBON
	HUMIDIFIER
	LOUVER
AHU	AIR HANDLING UNIT ACCESS SECTION
AHU	AIR HANDLING UNIT PLENUM SECTION
HC / C	COIL - PRE-HEAT
HC / C	COIL - RE-HEAT
C / C	COIL - COOLING
HC / C	COIL - HEATING
DX / C	COIL - DX
	FAN COIL UNIT
	UNIT HEATER
	UNIT HEATER - CEILING - PLAN
	VAV BOX - SINGLE DUCT
	VAV BOX - FAN ASSISTED - PARALLEL
	SOUND ATTENUATOR
	AIR SEPARATOR
	PLATE AND FRAME HEAT EXCHANGER
TS	TEMPERATURE SENSOR
R	RELATIVE HUMIDITY SENSOR
DPS	DIFFERENTIAL PRESSURE
CO	CARBON MONOXIDE SENSOR
CO2	CARBON DIOXIDE SENSOR
O	OCCUPANCY SENSOR
T	THERMOSTAT
H	HUMIDITY SENSOR
SP	STATIC PRESSURE SENSOR
XX-YY	SENSOR - SEE ABBREVIATIONS FOR TYPE
XX-YY	SENSOR (DUCT MOUNTED) - SEE ABBREVIATIONS FOR TYPE
	ROOF EXHAUST FAN (PLAN)
(SQ.FT.)	LOUVER (DOOR AND WALL) AND LOUVER FREE AREA

PIPING SYMBOLS

SYMBOL	DESCRIPTION
	EXISTING
	NEW (LINETYPE VARIES PER SYSTEM)
	ELBOW TURN DOWN
	TEE TURN DOWN
	PIPE TURN UP
	TEE TURN UP
	CAPPED PIPE
	INSULATED PIPE
XXX / X	XXXX - SERVICE TYPE. SEE ABBREVIATIONS
R	PITCH OF PIPE (RISE)
D	PITCH OF PIPE (DROP)
	CONCENTRIC REDUCER/EXPANDER
FOB / FOT	ECCENTRIC REDUCER/EXPANDER
	PIPE ANCHOR
	UNION JOINT
	FLANGED JOINT
	EXPANSION LOOP
	EXPANSION JOINT
	PIPE ALIGNMENT GUIDE
	CHECK VALVE
	CHECK VALVE - SWING GATE
	CHECK VALVE - SPRING
	PRESSURE REDUCING VALVE
	QUICK DISCONNECT VALVE (OPENING)
	QUICK DISCONNECT VALVE (CLOSING)
LS	LOCK SHIELD VALVE
	NEEDLE VALVE
	CIRCUIT SETTER (BALANCING VALVE)
	AUTOMATIC FLOW LIMITING VALVE
	TAMPER VALVE
	FLOAT VALVE
	TRIPLE DUTY VALVE
	COCK, DRAIN
	COCK, SHUT-OFF
	CURB VALVE
	SAFETY RELIEF VALVE
	BACKFLOW PREVENTER

PIPING SYMBOLS

SYMBOL	DESCRIPTION
	HOSE END DRAIN
	STRAINER Y-TYPE
	AIR VENT, AUTOMATIC
	AIR VENT, MANUAL
VB	VACUUM BREAKER
	FLEXIBLE CONNECTION (BRAIDED HOSE)
	FLEXIBLE CONNECTION (SPHERICAL RUBBER)
	THERMOSTATIC RADIATOR
	THERMOWELL
M	FLOW METER
	TEST POINT
	PRESSURE GAUGE
	THERMOMETER
	STEAM TRAP
FS	FLOW OR PRESSURE SWITCH
	PUMP
	FLOW INDICATOR

GENERAL SYMBOLS AND TAGS

SYMBOL	DESCRIPTION
AHU / 8	EQUIPMENT TYPE / EQUIPMENT TAG NUMBER
	LINE BREAK
	ELECTRIC HEAT TRACING
	EXISTING TO BE REMOVED
	POINT OF NEW CONNECTION TO EXISTING WORK
XXX	POINT OF DISCONNECTION OF WORK TO BE REMOVED (XXX - SERVICE REFERENCE. SEE ABBREVIATIONS)

GENERAL DUTY MANUAL AND CONTROL VALVES

SYMBOL (WITH OPERATOR TYPE)					DESCRIPTION
MANUAL	CYLINDER	DIAPHRAGM	MOTORIZED	SOLENOID	
					2-PORT SHUT-OFF VALVE (S)
					2-PORT THROTTLING VALVE (T)
					3-WAY GATE VALVE
					ANGLE VALVE
					GLOBE VALVE
					3-WAY GLOBE VALVE
					BALL VALVE
					PLUG VALVE
					BUTTERFLY VALVE
					DIAPHRAGM VALVE

ABBREVIATIONS

SYMBOL	DESCRIPTION
°F	DEGREE FARENHEIT
Ø	DIAMETER OR PHASE
AAV	AUTOMATIC AIR VENT
ABAN	ABANDON
ABV	ABOVE
AC	AIR CONDITIONING UNIT
ACC	AIR COOLED CONDENSER
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AMB	AMBIENT
AP	ACCESS PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
AS	AIR SEPARATOR
ATM	ATMOSPHERE
ATMV	ATMOSPHERIC VENT
AWT	AVERAGE WATER TEMPERATURE
B	BOILER
BAS	BUILDING AUTOMATION SYSTEM
BDD	BACKDRAFT DAMPER
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BLDWN	BLOWDOWN
BLW	BELOW
BM	BEAM
BOT	BOTTOM
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
C	CONVERTER
C/C	CENTER TO CENTER
CAV	CONSTANT AIR VOLUME
CC	COOLING COIL
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CFP	CHEMICAL FEED PUMP
CG	CEILING GRILL
CH	CHILLER
CHW	CHILLED WATER
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CJ	CONSTRUCTION JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CND	CONDENSER WATER
CNDR	CONDENSER WATER RETURN
CNDS	CONDENSER WATER SUPPLY
CO	CARBON MONOXIDE
CO2	CARBON DIOXIDE
COL	COLUMN
CONC	CONCRETE
COND	CONDENSATE
CONDR	CONDENSOR
CONN	CONNECTION
CONT	CONTINUATION / CONTINUOUS
CONV	CONVECTOR
COP	COEFFICIENT OF PERFORMANCE
CP	CONTROL PANEL
CPF	CHEMICAL POT FEEDER
CRP	CONDENSATE RETURN PUMP
CSR	CURRENT SENSING RELAY
CT	COOLING TOWER
CU FT	CUBIC FEET
CU IN	CUBIC INCHES
DB	DRY BULB
DC	DRY AIR COOLER
DDC	DIRECT DIGITAL CONTROL
DEGF	DEGREE FAHRENHEIT
DEMO	DEMOLITION
DET	DETAIL
DG	DOOR GRILLE
DH	DOMESTIC WATER HEATER
DHW	DOMESTIC HOT WATER
DIA	DIAMETER
DIM	DIMENSION
DLV	DOOR LOUVER
DMPR	DAMPER
DP	DEWPOINT
DPS	DIFFERENTIAL PRESSURE SENSOR
DR	DRAIN
DS	DISCONNECT SWITCH
DT	DRAW THROUGH
DW	DOMESTIC WATER
DWG	DRAWING
DXC	DX SPLIT SYSTEM (CONDENSING UNIT)
DXE	DX SPLIT SYSTEM (EVAPORATOR UNIT)
(E)	EXISTING
EA	EXHAUST AIR
EA	EACH
EAD	EXHAUST AIR DAMPER
EAT	ENTERING AIR TEMPERATURE
ED	EXHAUST DIFFUSER

ABBREVIATIONS

SYMBOL	DESCRIPTION
EDB	ENTERING DRY BULB TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
EG	EXHAUST GRILLE
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ENT	ENTERING
EQ	EQUAL
ER	EXHAUST REGISTER
ES	ELECTRIC SUPPLY
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
EWBT	ENTERING WET BULB TEMPERATURE
EWT	ENTERING WATER TEMPERATURE
EXP	EXPANSION
EXT	EXTERIOR
F	FAN
F/O	FLAT OVAL
FA	FROM ABOVE
FAI	FRESH AIR INTAKE
FB	FROM BELOW
FCU	FAN COIL UNIT
FCV	FLOW CONTROL VALVE
FD	FIRE DAMPER
FDR	FLOOR DRAIN
FF	FINAL FILTER
FLA	FULL LOAD AMP
FMD	FLOW MEASURING DEVICE
FPM	FEET PER MINUTE
FPT	FAN POWERED TERMINAL
FSD	COMBINATION FIRE/SMOKE DAMPER
FSS	FLOW SENSING SWITCH
FT	FEET
FTR	FINNED TUBE RADIATION
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GND	GROUND
GPM	GALLON PER MINUTE
GRL	GRILLE
GSNK	GOOSENECK
H	HUMIDITY
HC	HEATING COIL
HFD	HORIZONTAL FIRE DAMPER
HHW	HEATING HOT WATER
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HORIZ	HORIZONTAL
HP	HORSEPOWER
HPC	HIGH PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
HTG	HEATING
HTP	HEAT TRANSFER PACKAGE
HX	HEAT EXCHANGER
HZ	HERTZ
IN	INCHES
KW	KILOWATT
KX	KITCHEN EXHAUST
(L1)	1 ACOUSTICAL DUCT LINING
(L2)	2 ACOUSTICAL DUCT LINING
L	LINED DUCTWORK
LAT	LEAVING AIR TEMPERATURE
LB	POUND
LD	LINEAR DIFFUSER
LDB	LEAVING DRY BULB TEMPERATURE
LL	LOW LEVEL
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
LWBT	LEAVING WET BULB TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBH	THOUSAND BTUH
MBTU	THOUSAND BTU
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MOTORIZED CONTROL CENTER
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MEZZ	MEZZANINE
MFSD	MODULATING FIRE SMOKE DAMPER
MIN	MINIMUM
MISC	MISCELLANEOUS
MPC	MED PRESSURE CONDENSATE
MPS	MED PRESSURE STEAM
MV	MANUAL VENT
(N)	NEW
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NFA	NET FREE AREA
NIC	NOT IN CONTRACT
NO	NUMBER
NOPN	NORMALLY OPEN
NTS	NOT TO SCALE

ABBREVIATIONS

SYMBOL	DESCRIPTION
OA	OUTSIDE AIR
OAD	OUTSIDE AIR DAMPER
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPNG	OPENING
OPWT	OPERATING WEIGHT
P	PUMP
PA	PIPE ANCHOR
PCF	POUNDS PER CUBIC FOOT
PD	PRESSURE DROP
PEN	PENETRATION
PERF	PERFORATED
PF	PRE-FILTER
PG	PRESSURE GAUGE
PH	PHASE
PL	PLATE
POC	POINT OF CONNECTION
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH (ABS)
PSIG	POUNDS PER SQUARE INCH (GAUGE)
RA	RETURN AIR
RAD	RETURN AIR DAMPER
RC	REHEAT COIL
RCHWR	RADIANT CHILLED WATER RETURN
RCHWS	RADIANT CHILLED WATER SUPPLY
RD	RETURN DIFFUSER
RDR	ROOF DRAIN
REFG	REFRIGERATION SYSTEM
REFGR	REFRIGERATION RETURN
REFGS	REFRIGERATION SUPPLY
RG	RETURN GRILL
RH	RELATIVE HUMIDITY
RHG	REFRIGERANT HOT GAS
RHHWR	RADIANT HEATING HOT WATER RETURN
RHHWS	RADIANT HEATING HOT WATER SUPPLY
RL	REFRIGERANT LIQUID LINE
RPM	REVOLUTIONS PER MINUTE
RR	RETURN REGISTER
RS	REFRIGERANT SUCTION LINE
S	SLAB
SA	SUPPLY AIR
SAD	SEE ARCHITECTURAL DRAWINGS
SCHW	SECONDARY CHILLED WATER
SCHWR	SECONDARY CHILLED WATER RETURN
SCHWS	SECONDARY CHILLED WATER SUPPLY
SD	SMOKE DAMPER
SD	SUPPLY DIFFUSER
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SUPPLY FAN
SG	SUPPLY GRILLE
SP	STATIC PRESSURE
SPD	SEE PLUMBING DRAWINGS
SQ FT	SQUARE FEET
SR	SUPPLY REGISTER
SS	STAINLESS STEEL
SST	STAINLESS STEEL
ST	SOUND TRAP (ATTENUATOR)
ST	SURFACE TEMPERATURE
STL	STEEL
STM	STEAM
STRUCT	STRUCTURAL
T	TEMPERATURE
TA	TRANSFER AIR
TA	TO LEVEL ABOVE
TB	TO LEVEL BELOW
TG	TRANSFER GRILLE
THK	THICK
TNL	TUNNEL
TYP	TYPICAL
UFD	UNDERFLOOR DUCT
UGND	UNDERGROUND
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
VAV	VARIABLE AIR VOLUME
VB	VACUUM BREAKER
VC	VENT COIL
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE/CONTROLLER
VIF	VERIFY IN FIELD
W/O	WITHOUT
WB	WET BULB
WC	WATER COLUMN
WF	WATER FILTER
WFR	WATER FILTER RETURN
WFS	WATER FILTER SUPPLY
WG	WATER GAUGE OR WALL GRILLE
WMS	WIRE MESH SCREEN
WS	WATER SOFTENER
WT	WEIGHT
WW	WELL WATER

MECHANICAL DRAWING LIST - 5 LOWER PASEO

DRG NO.	DRAWING TITLE	SCALE
M0.00	MECHANICAL - AREA 5 - SYMBOLS, ABBREVIATIONS & SHEET LIST	NTS
M0.11	MECHANICAL - AREA 5 - SCHEDULES	NTS
M1.00	MECHANICAL - AREA 5 - ORIENTATION PLAN	1/16" = 1'-0"
M1.01	MECHANICAL - AREA 5 - DEMOLITION PLAN - LOWER PASEO	1" = 10'-0"
M1.11	MECHANICAL - AREA 5 - FLOOR PLAN - LOWER PASEO	1" = 10'-0"
M5.01	MECHANICAL - AREA 5 - DIAGRAMS, PART PLANS	NTS
M6.01	MECHANICAL - AREA 5 - DETAILS	AS NOTED
M6.02	MECHANICAL - AREA 5 - DETAILS	AS NOTED
M6.03	MECHANICAL - AREA 5 - DETAILS	AS NOTED

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
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730 11th St NW
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Landscape Architect
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Arup - Texas Firm Reg. #1990
10370 Richmond Ave., Ste 475
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Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

PAPE-DAWSON ENGINEERS
Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

PARRA & Co
Civil Engineer
Parra & Co
110 E. Houston Street, Floor 7
San Antonio, TX 78205
Tel 210.819.4848

AVI-SPL
AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

Seal / Signature

Date	Description
10/26/2023	100% DESIGN DEVELOPMENT
05/23/2024	50% CONSTRUCTION DOCUMENTS

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ISSUED DATE: 06/06/2024
ENGINEER / DESIGNER: TODD STONEBRAKER
ENGINEER LICENSE NUMBER: 88798 (TEXAS)

Project Name
ALAMO SITE - AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
MECHANICAL - AREA 5 - SYMBOLS, ABBREVIATIONS & SHEET LIST

Scale
12" = 1'-0"

M0.00

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AIR-AIR HEAT EXCHANGER SCHEDULE

ITEM						OUTSIDE AIR		EXHAUST AIR		WINTER										SUMMER													
										OUTSIDE AIR				EXHAUST AIR			EFFECTIVENESS			OUTSIDE AIR				EXHAUST AIR			EFEFCTIVENESS					
										ENT		LVG		ENT						ENT		LVG		ENT								
TYPE	NO.	MANUFACTURER	MODEL NO.	TYPE	LOCATION	AIRFLOW [CFM]	MAX AIR PD [IN WC]	AIRFLOW [CFM]	MAX AIR PD [IN WC]	DB [°]	WB [°F]	DB [°F]	WB [°F]	DB [°F]	RH [%]	LVG DB [°F]	SENS. [%]	TOTAL [%]	DB [°F]	WB [°F]	DB [°F]	WB [°F]	DB [°F]	RH [%]	LVG. DB [°F]	SENS. [%]	TOTAL [%]	FACE AREA [SF]	MAX LEAKAGE [%]	MOTOR HP	OPERATING WEIGHT [LBS]	NOTES
AHX	1	RENEWAIRE		ENERGY CORE VENTILATOR		0	0	0	0	29.8	0.0	56.7	0.0	70	0.00%	0	0	0	99	74	83	66	75	0.00%	0	0	0	0	0	0	0	

LOUVER SCHEDULE

ITEM		MANUFACTURER	MODEL NO.	LOCATION	MIN. FREE AREA [SQ FT]	AIRFLOW [CFM]	FREE AREA VELOCITY [FPM]	WATER PEN. [FPM]	PRESSURE DROP [IN WC]	HEIGHT [IN]	WIDTH [IN]	NOTES
TYPE	NO.											
L	1				0.75	270	180	0	0	12	18	
L	2				0.75	300	200	0	0	12	18	

FAN SCHEDULE

ITEM									MOTOR DATA								SOUND DATA									
																	INLET									
																	SOUND POWER LEVEL, dB re 10E-12 Watts								OPERATING WEIGHT [LBS]	NOTES
TYPE	NO.	MANUFACTURER	MODEL NO.	LOCATION	AIR FLOW [CFM]	E.S.P. [IN W.C.]	FAN [RPM]	FAN CLASS	BHP	HP	V	PH	HZ	SPEED CONTROL	EMERGENCY/ STANDBY POWER	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz		
SF	1	GREENHECK		ELECTRICAL CLOSET	0	0	0		0	0	115	1	60			0	0	0	0	0	0	0	0	0	A

VRF HEAT RECOVERY UNIT SCHEDULE

ITEM		MANUFACTURER	MODEL NO.	LOCATION	AREA SERVED	AIR FLOW [CFM]	V	PH	HZ	MOCP	MCA	OPERATING WEIGHT [LBS]	NOTES
TYPE	NO.												
HRB	1	LG					208	1	60	15	0	70	

NOTES:
1. ALL CONTROL WIRING, RELAYS AND DEVICES SHALL BE BY MECHANICAL CONTRACTOR.
2. PROVIDE BRANCH SELECTORS ITH ACCESS PANELS IN ALL FINISHED HARD CEILINGS.
3. CONTRACTOR SHALL FIELD COORDINATE FINAL LOCATION AND SIZE OF ACCESS PANEL TO COMPLY WITH MANUFACTURER REQUIRED CLEARANCES FOR ALL HRBS INSTALLED ABOVF HARD CEILINGS. CONTRACTOR TO COORDINATE LOCATION AND FINISH WITH ARCHITECT.
4. CONRACTOR TO COORDINATE POWER IWTH DIV. 26.
5. UNITS PROVIDED WITH R410A REFRIGERANT.
6. QUANTITY AND SIZE OF HEAT RECOVERY UNITS SHALL BE CONFIRMED BY BRF MANUFACTURER SYSTEM REQUIREMENTS AND SUBMITTAL.

VRF OURDOOR UNIT SCHEDULE

T						REFRIGERANT		COOLING DATA			ELECTRICAL					SOUND DATA								DIMESNIONS				
																OUTLET SOUND POWER LEVEL, dB re 10E-12 Watts												
TYPE	NO.	MANUFACTURER	MODEL NO.	LOCATION	AREA SERVED	TYPE	CHARGE [LBS]	HIGH AMBIENT OUTDOOR TEMP [°F]	CAP [BTU]	EFFICIENCY [EER]	V	PH	HZ	FLA [AMPS]	EMERGENCY/ STANDBY POWER	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	LENGTH [IN]	WIDTH [IN]	HEIGHT [IN]	OBERATING WEIGHT [LBS]	NOTES
ODU	1	LG		MECH YARD	TICKETING OFFICE	R410A	0	105	69000	0	208	3	60	0		0	0	0	0	0	0	0	0	15"	43"	64"	350	

NOTES:
1. CONTRACTOR TO COORDINATE POWER WITH DIV. 26. PROVIDE INDIVIDUAL ELECTRICAL CONNECTIONS FOR EACH MODULE. BOD SELECTIONS HAVE ONE MODULE AND ONE ELECTRICAL CONNECTION PER SYSTEM. CONTRACTOR SHALL COORDINATE ADDITIONAL ELECTRICAL CONNECTIONS WITH DIV. 26. IF REQUIRED FOR ALTERNATE MANUFACTURERS.
2. REFER TO FOR INSTALLATION DETAIL.
3. PROVIDE UNITS WITH BACNET INTERFACE CARD.
4. ROUTE CONDENSATE (GRAVITY DRAINED) TO NEAREST APPROVED RECEPTACLE. HORIZONTAL SECTIONS OF CONDENSATE PIPE TO BE SLOPED AT 1/4" PER FOOT OR AS REQUIRED BY LOCAL CODES. MINIMUM
5. NOMINAL PIPE SIZE 1-1/4". PROVIDE DRAIN PAN. TYPICAL FOR ALL VRF OUTDOOR UNITS.
6. SYSTEMS SHALL MEET OR EXCEED MINIMUM ENERGY REQUIREMENTS FOR 2021 INTERNATIONAL ENERGY CONSERVATION CODE WITH LOCALSAN ANTONIO AMENDMENTS.
7. PROVIDE MIN CLEARANCE PER MANUFACTURER RECOMMENDATION FOR MAINTENANCE, SERVICE AND OPERATION.
8. SOUND PRESSURE LEVELS AS MEASURED IN ANECHOIC CHAMBER ACCORDING TO ISO 3745 WITH UNIT UNDER FULL LOAD. MEASUREMENT TAKEN 3.3 FT A.F.F. AND 3 FT HORIZONTALLY FROM FACE OF UNIT.
9. UNIT SHALL BE SELECTED FOR A MAXIMUM COMBINATION RATIO OF 125 %.

FAN COIL UNIT SCHEDULE

ITEM							AIR			DX COOLING COIL						HEATING COIL			MOTOR DATA				FILTER	DIMENSIONS				
										AIR		COIL				AIR												
TYPE	NO.	MANUFACTURER	MODEL NO.	LOCATION	AREA SERVED	TYPE	SUPPLY AIRFLOW [CFM]	DESIGN OUTSIDE AIRFLOW [CFM]	EXT S.P. [IN WC]	ENT DB [°F]	ENT WB [°F]	LVG DB [°F]	TOTAL CAPACITY [BTU]	SENSIBLE CAPACITY [BTU]	COND. PUMP Y/N	ENT TEMP DB [°F]	LVG TEMP DB [°F]	COIL CAP. [BTU]	V	PH	HZ	MERV RATING	LENGTH [IN]	WIDTH [IN]	HEIGHT [IN]	OPERATING WEIGHT [LBS]	NOTES
FCU	1	LG		CORRIDOR	RESTROOMS	HORIZONTAL DUCTED	0	0	0.55	75	64	55	0	0	Yes	70	90	0.0	208	1	60	8	50	28	15	90	
FCU	2	LG		TICKETING	TICKETING	HORIZONTAL DUCTED	0	0	0.55	75	64	55	0	0	Yes	70	90	0.0	208	1	60	8	50	28	15	90	
FCU	3	LG		PUMP ROOM	PUMP ROOM	WALL MOUNTED	0	0	0	75	64	55	0	0	Yes	70	90	0.0	208	1	60	8	33	8	13	25	

NOTES:
1. PROVIDE DRY CONTACT FOR SPACE THERMOSTAT (HARDWIRED) BY VRF MANUFACTURER. THERMOSTAT SHALL BE POWERED FROM INDOOR UNIT.
2. INSTALL UNIT WITH REQUIRED CLEARANCE AND ACCESS INCLUDING CONTROL PANEL, FILTER REMOVAL, AND UNIT FAN/MOTOR ACCESS.
3. PROVIDE CEILING ACCESS PANEL OF MINIMUM SIZE REQUIRED BY MANUFACTURER AND NO SMALLER THAN THE FOOTPRINT OF THE UNIT FOR DUCTED UNITS INSTALLED ABOVE HARD CEILINGS.
4. PROVIDE WITH MANUFACTURER'S CONDENSATE PUMP.
5. CONDENSATE SHALL BE TERMINATED TO NEAREST APPROVED RECEPTACLE PER 2021 INTERNATIONAL MECHANICAL CODE AND LOCAL SAN ANTONIO AMENDMENTS.
6. COORDINATE ALL POWER WITH DIV. 26 ELECTRICAL WORK.
7. PROVIDE SECONDARY DRAIN PAN WITH MOISTURE SENSOR AND ALARM. REF. FOR INSTALLATION DETAIL.
8. SELECT FAN COIL UNITS AT NO HIGHER THAN MEDIUM FAN SPEED TO MEET SCHEDULED PERFORMANCE. MINIMUM LEAVING AIR DB TEMPERATURE 55 DEG F.
9. PROVIDE HANGING FAN COIL UNITS WITH MINIMUM 1" STATIC DEFLECTION STEEL SPRING OR NEOPRENE HANGERS OR AS REQUIRED BY SPECIFICATIONS.
10. HORIZONTAL DUCTED UNIT SOUND PRESSURE IS MEASURED AT MEDIUM FAN SPEED AND AT A STATIC PRESSURE OF 0.71.

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

Owner's Rep
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

Landscape Architect
OJB
711 Louisiana Street,
Suite 111
Houston, TX 77002
Tel 713.529.9919

MEP, Lighting, Security, and Acoustics Consultant
Arup - Texas Firm Reg. #1990
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.783.2787

Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

Civil Engineer
Parra & Co
110 E. Houston Street, Floor 7
San Antonio, TX 78205
Tel 210.819.4848

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

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ENGINEER / DESIGNER: TODD STONEBRAKER
ENGINEER LICENSE NUMBER: 88798 (TEXAS)

Project Name
ALAMO SITE - AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
MECHANICAL - AREA 5 - SCHEDULES

Scale
12" = 1'-0"

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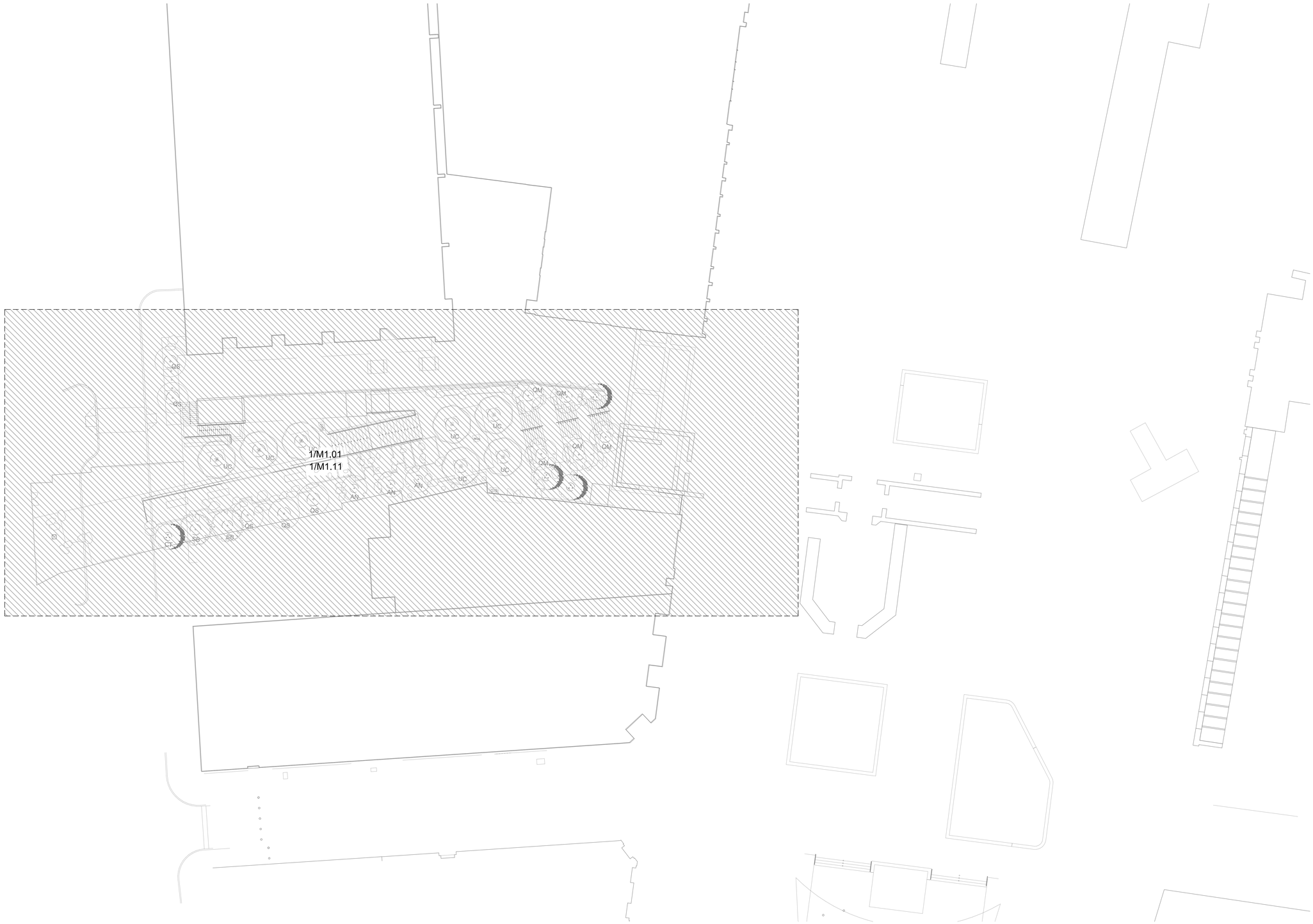

1 5 LOWER PASEO - MECHANICAL - ORIENETATION PLAN
1/16" = 1'-0"

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
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MGAC
Owner's Rep
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

OJB
Landscape Architect
OJB
711 Louisiana Street,
Suite 111
Houston, TX 77002
Tel 713.529.9919

ARUP
MEP, Lighting, Security, and Acoustics Consultant
Arup - Texas Firm Reg. #1990
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.783.2787

DATUM ENGINEERS
Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

PAPE-DAWSON ENGINEERS
Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

PARRA&Co
Civil Engineer
Parra & Co
110 E. Houston Street, Floor 7
San Antonio, TX 78205
Tel 210.819.4848

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

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Project Name
ALAMO SITE - AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
MECHANICAL - AREA 5 - ORIENTATION PLAN

Scale
1/16" = 1'-0"

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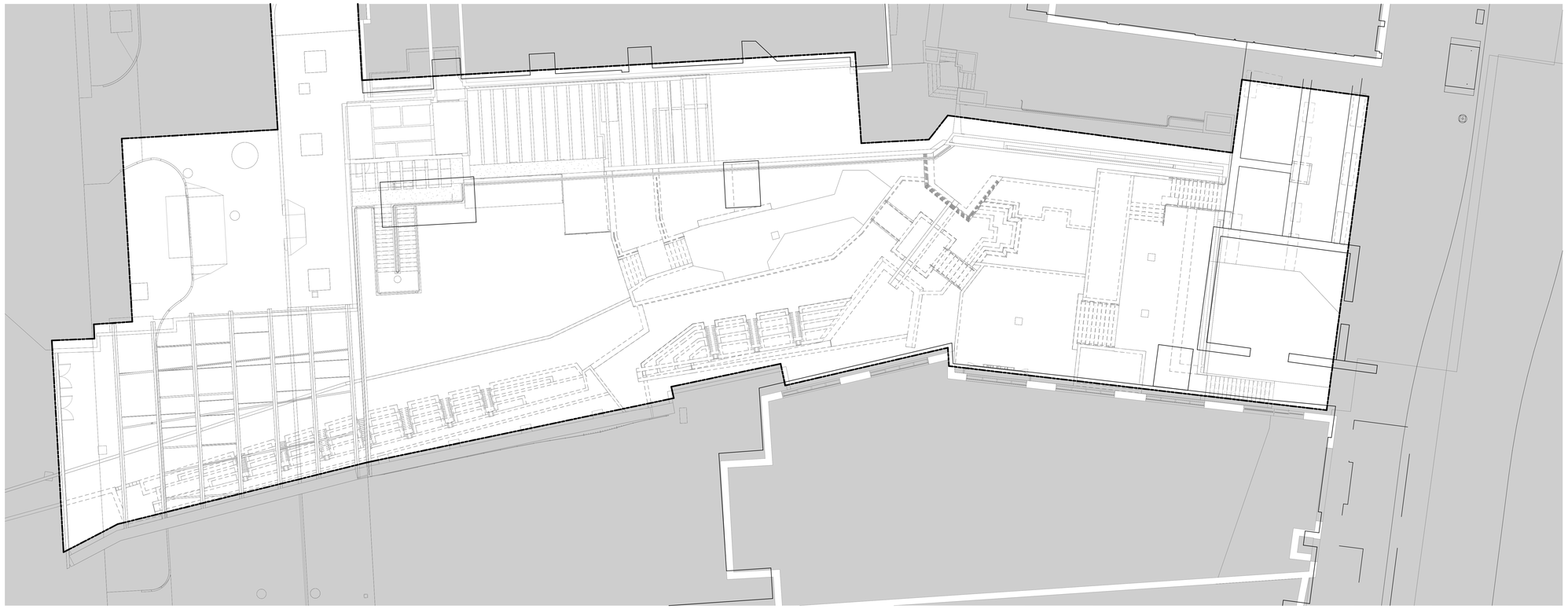

1 5 LOWER PASEO - MECHANICAL DEMOLITION PLAN
1" = 10'-0"

GENERAL NOTES

1. ALL MECHANICAL SYSTEMS INCLUSIVE OF DUCTWORK, DIFFUSERS, UNITS, CONTROLS, ETC. SHALL BE DE-ENERGIZED, DISCONNECTED AND REMOVED FROM PREMISES.
2. ALL PIPE WORK AND CONNECTIONS SHALL BE DEMOLISHED. CONDENSER WATER PIPING SHALL BE CUT BACK TO WITHIN 6" OF THE WALL AND TERMINATED WITH AN ISOLATION VALVE, CAPPED AND SEALED.

SHEET NOTES

KEY VALUE	KEYNOTE TEXT

ALAMO TRUST INC.

317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler

229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States

Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
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San Antonio, TX 78205
Tel 210.225.1391

Owner's Rep
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

Landscape Architect
OJB
711 Louisiana Street,
Suite 111
Houston, TX 77002
Tel 713.529.9919

MEP, Lighting, Security, and Acoustics Consultant
Arup - Texas Firm Reg. #1990
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.783.2787

Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

Civil Engineer
Parra & Co
110 E. Houston Street. Floor 7
San Antonio, TX 78205
Tel 210.819.4848

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

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ENGINEER LICENSE NUMBER: 88798 (TEXAS)

Project Name

ALAMO SITE - AREA 5 - LOWER PASEO

Project Number

122.0076.500

Description

MECHANICAL - AREA 5 - DEMOLITION PLAN - LOWER PASEO

Scale

As indicated

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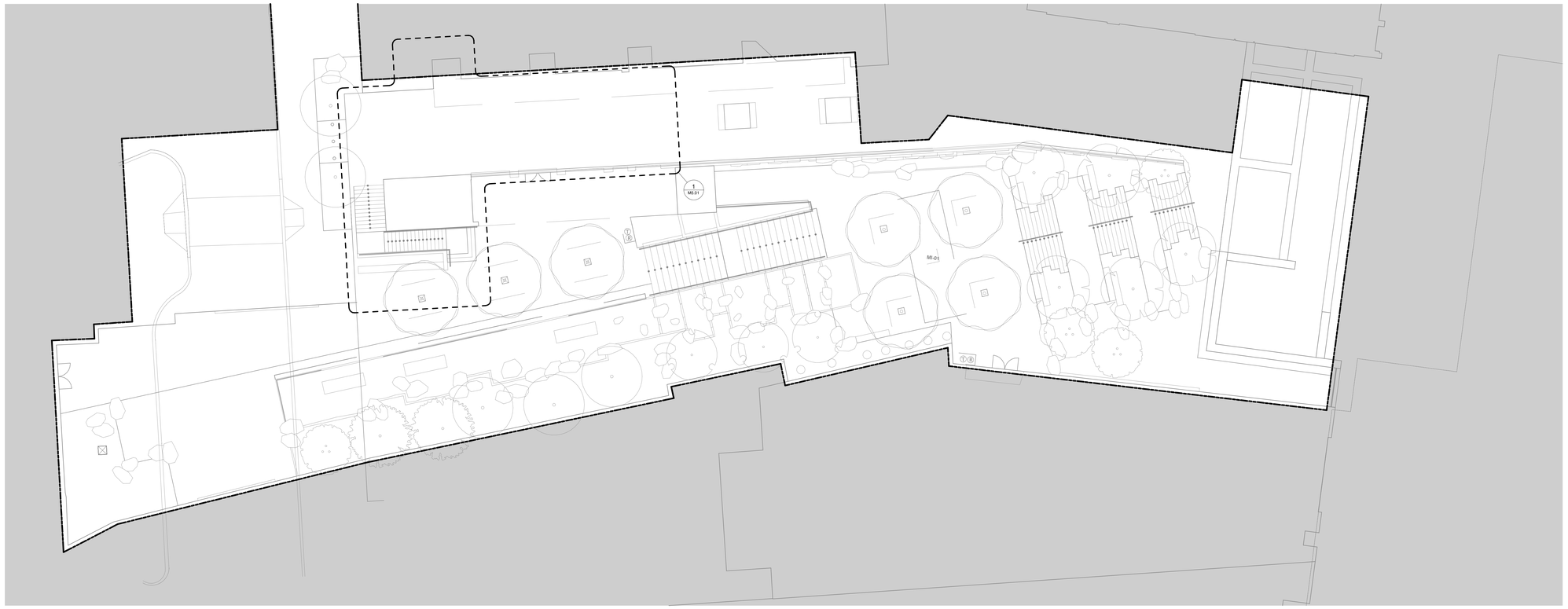

1 5 LOWER PASEO - FLOOR PLAN
1" = 10'-0"

GENERAL NOTES

SHEET NOTES

KEY VALUE KEYNOTE TEXT

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
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Tel 210.222.8059

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The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
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Fax 512.463.5001

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Project Number
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Description
MECHANICAL - AREA 5 - FLOOR PLAN - LOWER PASEO

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GENERAL NOTES

SHEET NOTES

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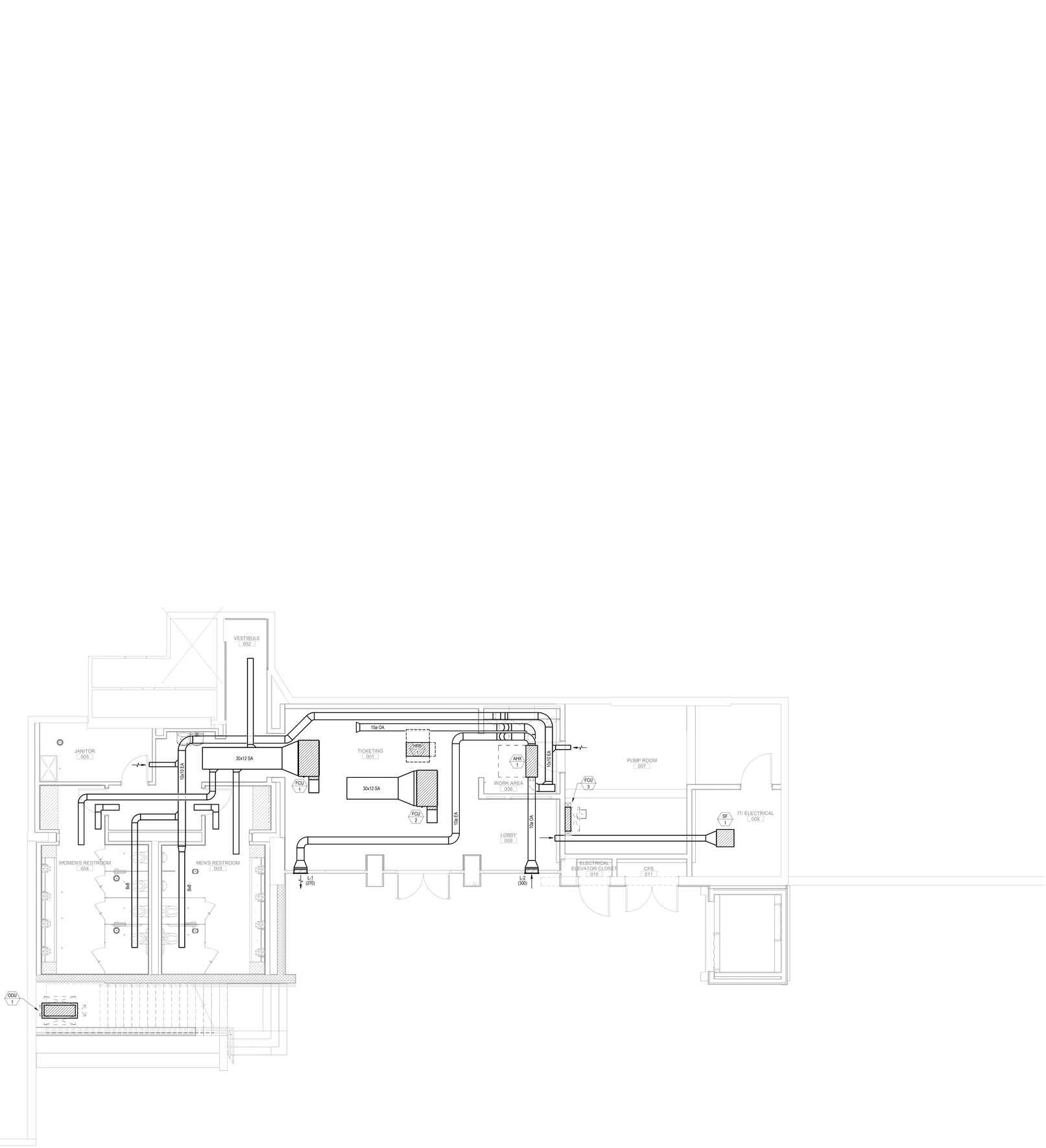

1 RIVER LEVEL - MECHANCIAL PLAN - TICKETING CENTER
1/4" = 1'-0"

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
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Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
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Fax 512.463.5001

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Washington, DC 20001
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OJB
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Pape-Dawson Engineers
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Civil Engineer
Parra & Co
110 E. Houston Street, Floor 7
San Antonio, TX 78205
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Austin, TX 78757
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Project Name
ALAMO SITE - AREA 5 - LOWER PASEO

Project Number
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Description
MECHANICAL - AREA 5 - DIAGRAMS, PART PLANS

Scale
1/4" = 1'-0"

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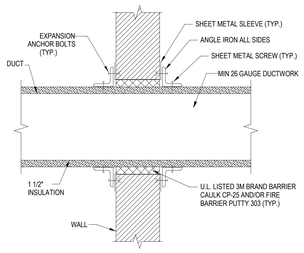
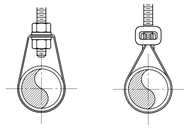


8 DUCT PENETRATION THROUGH RATED WALL
12" = 1'-0"

ADJUSTABLE SWIVEL PIPE RING



ADJUSTABLE STEEL BAND HANGER

ADJUSTABLE BAND HANGER

NOTES:
1. REFER TO SPECIFICATION FOR APPLICATIONS.
2. DOUBLE LOCKING NUTS TO BE PROVIDED ON ALL SUPPORT ARRANGEMENTS.

7 TYPICAL HANGAR TYPES
NTS

PURPOSE:

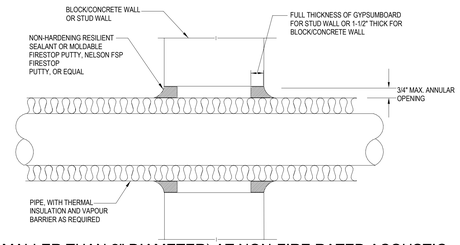
TO MAINTAIN SOUND INSULATION BETWEEN ROOMS.

LOCATION:

FOR PIPES WITH DIAMETER LESS THAN 2" AT ALL PENETRATIONS OF ACOUSTIC WALLS. NOTE THAT 2" DIAMETER DIMENSION INCLUDES THE INSULATION THICKNESS.

KEY NOTES:

1. PIPE SUPPORTS TO BE SPACED SUFFICIENTLY FROM PARTITION LINE TO ALLOW ACCESS FOR INSTALLATION/SEALING.



4 PENETRATION FOR INSULATED PIPES (SMALLER THAN 2" DIAMETER) AT NON-FIRE RATED ACOUSTIC WALLS
NTS

PURPOSE:

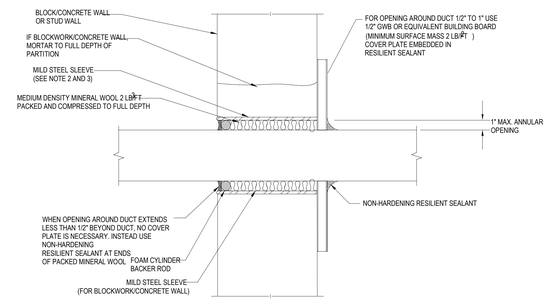
TO MAINTAIN SOUND INSULATION BETWEEN ROOMS.

LOCATION:

DUCT PENETRATIONS AT ACOUSTIC WALLS.

KEY NOTES:

1. DUCT SUPPORTS TO BE SPACED SUFFICIENTLY FROM PARTITION LINE TO ALLOW ACCESS FOR INSTALLATION/SEALING.
2. FOR BLOCK/CONCRETE WALL, THICKNESS OF MILD STEEL SLEEVE TO BE SUFFICIENT TO SUPPORT MORTAR AND INFILL ABOVE. MINIMUM THICKNESS 1/16".
3. AS ALTERNATIVE TO SLEEVE IN STUD WALLS, OPENING MAY BE



3 PENETRATION FOR DUCTS AT NON-FIRED RATED WALLS DETAIL
12" = 1'-0"

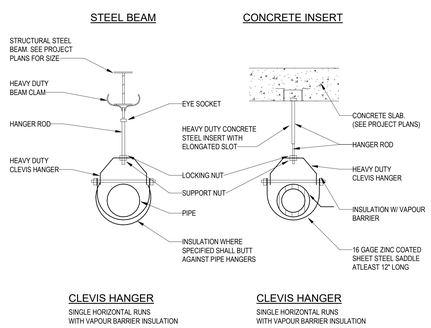
PIPE HANGER ROD & SPACING SCHEDULE			
NOMINAL PIPE SIZE (INCHES)	HANGER ROD SIZE FOR SINGLE PIPE (INCHES)	MAXIMUM SPACING BETWEEN SUPPORTS FOR STEEL PIPE (FEET)	MAXIMUM SPACING BETWEEN SUPPORTS FOR COPPER PIPE (FEET)
3/4	3/8	6	6
1	3/8	7	6
1 1/2	3/8	9	8
2	3/8	10	9
2 1/2	1/2	11	10
3	1/2	12	10
4	5/8	14	12
5	5/8	16	14
6	3/4	17	14
8	7/8	19	16
10	7/8	22	18
12	7/8	23	20
14	1	25	
16	1 1/8	27	
18	1 1/4	28	
20	1 1/4	30	

NOTES:

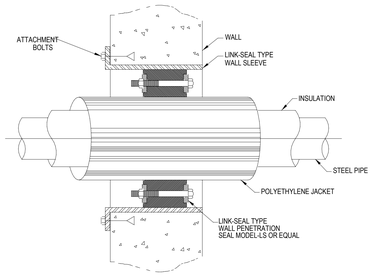
1. FOR TRAPEZE HANGER SPACING, USE SPACING REQUIRED FOR SMALLEST PIPE ON TRAPEZE.

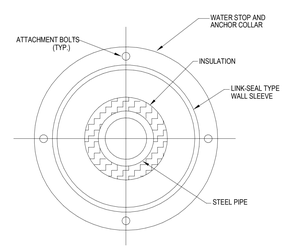
2. FOR TRAPEZE HANGERS, CALCULATE REQUIRED ROD SIZE.

10 PIPE HANGER ROD & SPACING SCHEDULE
NTS



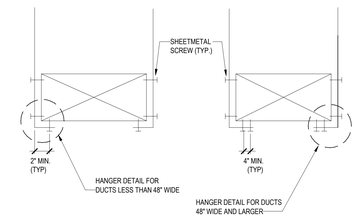
6 TYPICAL HANGER DETAIIL
NTS





FRONT VIEW

2 INSULATED PIPE WALL PENETRATION
NTS



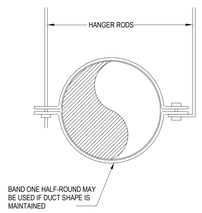
DUCT SIZE	HANGER SIZE
<2 SQ FEET	1"x1/16"
>2 SQ FEET	1"x1/8"

DUCT SIZE	HANGER SPACING
<4 SQ FEET	8 FEET
4 SQ FEET TO 10 SQ FEET	6 FEET
>10 SQ FEET	4 FEET

NOTES

1. SUBMIT ALL SUPPORT DETAILS FOR REVIEW.
2. PROVIDE ALL SUPPLEMENTAL ANGLE SUPPORTS AND MATERIALS, AND SURFACE RE-FINISHING REQUIRED FOR SUPPORT OF ALL EQUIPMENT, DUCTS, PIPES, ETC.
3. CO-ORDINATE WITH ARCHITECTURAL DRAWINGS TO ESTABLISH WHERE EXISTING FLOOR FINISHES OR CEILING FINISHES ARE TO BE RETAINED.
4. CONTRACTOR SHALL VERIFY THAT LOADS ON STRAPS DO NOT EXCEED LIMITS PRESCRIBED IN SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
5. FOR INSULATED DUCTS WITH VAPOR BARRIER, MAINTAIN INTEGRITY OF VAPOR BARRIER AT SUPPORTS.
6. THIS DETAIL SHALL BE USED AS NOTED IN SPECIFICATION.

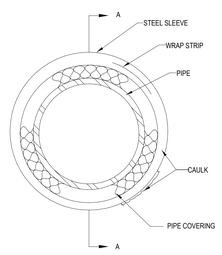
9 DUCT SUPPORT DETAIL
NTS

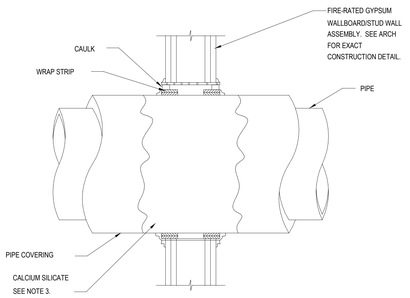


KEY NOTES:

1. HANGERS SHALL BE SUPPORTED FROM STRUCTURAL STEEL. PROVIDE SECONDARY STEEL AS REQUIRED.
2. CONTRACTOR SHALL VERIFY THAT LOAD ON HANGERS DO NOT EXCEED LIMITS PRESCRIBED IN SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
3. DUCT SHALL BE SUPPORTED AT 8'-0" O/C OR MORE FREQUENTLY.
4. FOR INSULATED DUCTS WITH VAPOR BARRIER, MAINTAIN INTEGRITY OF VAPOR BARRIER AT SUPPORTS.
5. FOR INSULATED DUCTS PROVIDE RIGID SUPPORT INSERTS.

5 TYPICAL ROUND DUCT SUPPORT
NTS





SECTION A-A

KEY NOTES:

1. THROUGH-PENETRATION FIRESTOP SHALL BE CONSTRUCTED ACCORDING TO U.L. LISTED SYSTEM NO. W-L-5010.
2. PIPE COVERING SHALL BE NOMINAL 1" OR 2" THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MIN 3.5 PCF) GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET.
3. PIPE COVERING FOR STEAM PIPING SHALL BE CALCIUM SILICATE IN THE INDICATED SECTION.

1 FIRE RATED WALL PENETRATION
NTS

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

Owner's Rep
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

Landscape Architect
OJB
711 Louisiana Street,
Suite 111
Houston, TX 77002
Tel 713.529.9919

MEP, Lighting, Security, and Acoustics Consultant
Arup - Texas Firm Reg. #1990
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.783.2787

Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

Civil Engineer
Parra & Co
110 E. Houston Street, Floor 7
San Antonio, TX 78205
Tel 210.819.4848

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

Seal / Signature

△ Date	Description
10/26/2023	100% DESIGN DEVELOPMENT
05/23/2024	50% CONSTRUCTION DOCUMENTS

PRELIMINARY
THESE DOCUMENTS ARE INCOMPLETE AND FOR INTERIM REVIEW ONLY. THEY ARE NOT INTENDED FOR REGULATORY APPROVAL, PERMIT OR CONSTRUCTION.
ISSUED DATE: 06/06/2024
ENGINEER / DESIGNER: TODD STONEBRAKER
ENGINEER LICENSE NUMBER: 88798 (TEXAS)

Project Name
ALAMO SITE - AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
MECHANICAL - AREA 5 - DETAILS

Scale
NTS

M6.01

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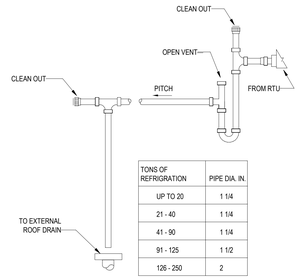
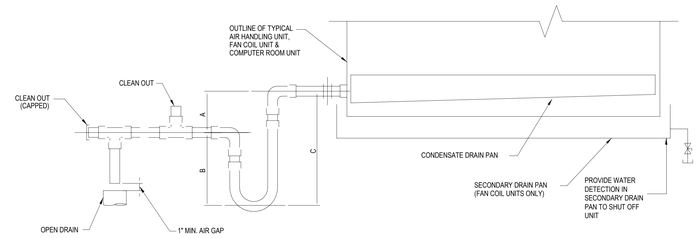


TONS OF REFRIGRATION	PIPE DIA. IN.
UP TO 20	1 1/4
21 - 40	1 1/4
41 - 90	1 1/4
91 - 125	1 1/2
126 - 250	2

NOTES:
1. CONDENSATE DRAIN PIPING SHALL MEET THE REQUIREMETNS OF 2021 INTERNATIONAL MECHANICAL CODE.
2. CONDENSATE PIPES SHALL BE SIZED BASED ON THE DIAMETERS SHOWN ON THE PLANS, THOSE SHOWN ON THE TABLE, OR PER 2021 INTERNATIONAL MECHANICAL CODE, WHICHEVER IS MORE ONEROUS.

4 CONDENSATE DRAIN PIPING
NTS

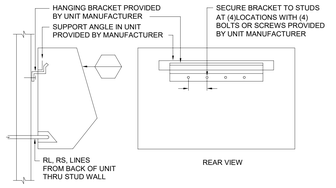


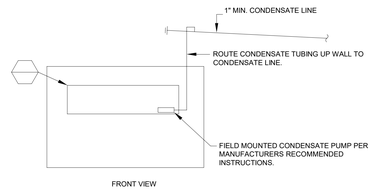
KEY NOTES:

1. DISCHARGE MUST BE BELOW LEVEL OF DRAIN PAN.
2. SUPPORT DRAIN LINES TO PREVENT SAG AND CONDENSATE OVERFLOW.
3. ALLOW SUFFICIENT SPACE BELOW DRAIN PAN FOR TRAP.
4. SEE MECHANICAL SCHEDULES FOR STATIC PRESSURE INFORMATION.
5. REVIEW PLUMBING DRAWINGS FOR ROOF RECEPTOR LOCATIONS FOR AHU CONDENSATE.
6. TSP, TOTAL STATIC PRESSURE INSIDE DRAIN PLENUM (INCHES OF WATER) =

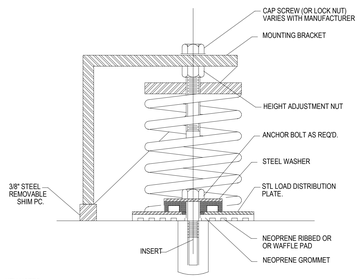
(+) STATIC PRESSURE (BLOW THROUGH COIL)	(-) STATIC PRESSURE (DRAW THROUGH COIL)
1. A = 1"	1. A = TSP + 1"
2. B = TSP + 1"	2. B = 1/2(TSP) + 1"
3. C = TSP + 2"	3. C = 3/2(TSP) + 2"

3 CONDENSATE TRAP DRAIN
NTS





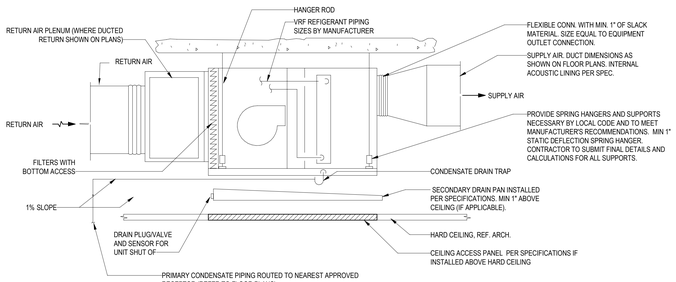
2 FAN COIL UNIT - WALL MOUNTED
NTS



KEY NOTES:

1. WHEN REQUIRED DUE TO HIGH LOADS, MULTIPLE SPRINGS MAY BE UTILIZED.
2. DO NOT TRANSFER LOAD TO MOUNT UNTIL ENTIRE SYSTEM IS UNDER. OPERATIONAL LOAD. STEEL SHIM TO BE IN PLACE DURING PIPING ROUGH-IN AND FILLING.
3. WHEN SYSTEM IS OPERATIONAL, ADJUST HEIGHT ADJUSTMENT BOLT TO TRANSFER LOAD TO MOUNT. TURN ONLY UNTIL MOUNTING BRACKET JUST CLEARS SHIM. REMOVE SHIM AND RETAIN FOR FUTURE INSPECTION CHECK.

5 SPRING MOUNT ISOLATOR
NTS



KEY NOTES:

1. PROVIDE UL508 CERTIFIED MOISTURE SENSOR IN SECONDARY DRAIN PAN. SENSOR SHALL DEACTIVATE FCU AND RAISE AN ALARM UPON DETECTION OF MOISTURE. REF. SPECIFICATIONS
2. FANS SHALL NOT HAVE INTERNAL VIBRATION ISOLATION. INTERNAL VIBRATION ISOLATION SHALL BE FIXED RIGID.
3. ACCESS PANEL SHALL BE INSTALLED TO MEET MANUFACTURER'S ACCESS REQUIREMENTS FOR THE FAN COIL UNIT, CONTROL PANEL, FILTER REMOVAL, AND FAN/MOTOR ACCESS. ACCESS PANEL BASIS OF DESIGN SHALL BE BAUCO-PLUS II BOMBAY STYLE OR APPROVED EQUIVALENT. FINAL STYLE AND FINISH BY ARCHITECT.
4. WHERE DUCTED RETURN SHOWN ON PLANS, RETURN AIR CONNECTION TO MATCH RETURN AIR OPENING ON THE EVAPORATOR. PROVIDE DUCT TRANSITION TO RETURN AIR CONNECTION IF DIMENSION ON PLAN IS DIFFERENT FROM EVAPORATOR RETURN CONNECTION DIMENSIONS.
5. REFER TO MANUFACTURER'S INSTALLATION MANUAL FOR EVAPORATOR UNIT CLEARANCES, INSTALLATION, AND CONFIGURATION.

1 VRF DUCTED HORIZONTAL FCU INSTALLATION
NTS

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
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7600 Burnet Rd #350,
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Seal / Signature

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ISSUED DATE: 06/06/2024
ENGINEER / DESIGNER: TODD STONEBRAKER
ENGINEER LICENSE NUMBER: 88798 (TEXAS)

Project Name
ALAMO SITE - AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
MECHANICAL - AREA 5 - DETAILS

Scale
NTS

M6.02

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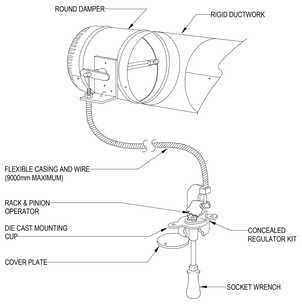
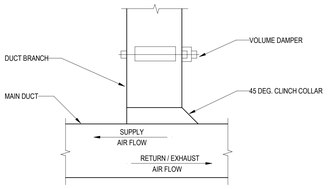


KEY NOTES:

1. COORDINATE EXACT LOCATION OF REGULATOR KIT WITH ARCHITECT PRIOR TO INSTALLATION.
2. LOCATE WHERE DAMPERS ARE NOT ACCESSIBLE FROM CEILING OR WHERE SHOWN ON PLANS

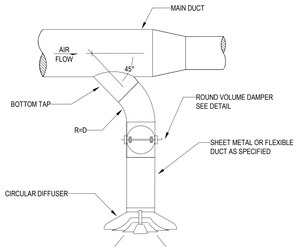
12 REMOTE MANUAL BALANCING DAMPER
12" = 1'-0"



NOTES:

1. FURNISH THIS TYPE CONNECTION FOR BRANCHES WITH LESS THAN25% OF THE MAIN DUCT MAXIMUM AIR FLOW.

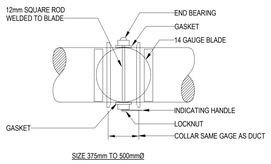
8 RECTANGULAR DUCT CONNECTION DETAIL
NTS



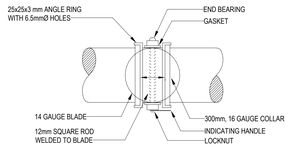
NOTES:

1. USE FOR SYMBOL ⊥ WHERE BRANCH DUCT IS ROUND FROM ROUND MAIN AND BRANCH DUCT AIR QUANTITY IS 50% OR LESS OF TOTAL AIR FLOW.

13 CIRCULAR DUCT BOTTOM TAP W/VOLUME DAMPER
NTS



SIZE 375mm TO 500mmØ

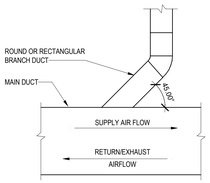


SIZE 525mm TO 700mm DIAMETER

KEY NOTES:

1. EXTEND SPINDLE TO ALLOW OPERATION AFTER DUCTS HAVE BEEN INSULATED.

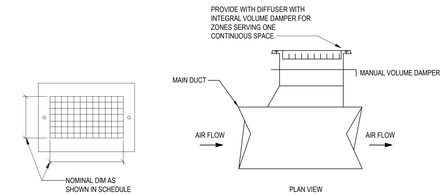
11 ROUND VOLUME DAMPER
12" = 1'-0"



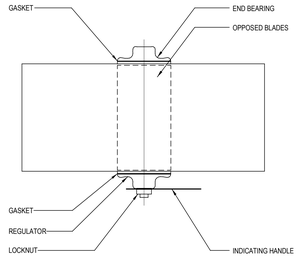
NOTES:

1. FURNISH THIS TYPE CONNECTION FOR BRANCHES WITH LESS THAN 25% OF THE MAIN DUCT MAXIMUM AIR FLOW.
2. TERMINAL AIR BOX RUN-OUT DUCTS SHALL BE CONNECTED TO MAIN DUCTS BY:
   THE FOLLOWING ACCEPTABLE CONNECTIONS.
   a. 45° CLINCH LOCK/TRANSITION (RECTANGULAR MAIN DUCT)
   b. CONICAL FLANGED CONNECTION OR FLANGED BELLMOUTH. (RECTANGULAR MAIN DUCT)
   c. 45° LATERAL TAP (ROUND MAIN DUCT).
   d. 45° LATERAL FITTING (ROUND MAIN DUCT).
   SPIN-IN FITTING NOT ACCEPTABLE UPSTREAM OF
3. TERMINAL AIR BOXES.

7 ROUND OR RECTANGULAR DUCT BRANCH CONNECTION
NTS



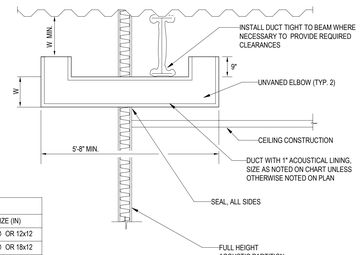
3 DIFFUSER CONNECTION DETAIL FOR EXPOSED DUCTWORK
NTS



NOTES:

1. ALL VOLUME DAMPERS TO BE FABRICATED FROM GALVANIZED STEEL, AND TO BE CAPABLE OF AIRFLOW AT 3000 FT/MIN AT A MAX PRESSURE OF 6-INCH W.G. ALL DAMPERS TO HAVE A MAXIMUM STATIC PRESSURE DROP OF 0.04-INCH WG.
2. PROVIDE VOLUME DAMPERS AS SHOWN ON PLAN OR REQUIRED IN SPECIFICATION .
3. RECTANGULAR DUCTS SYSTEMS: PROVIDE RECTANGULAR, OPPOSED BLADE, HORIZONTAL DAMPER WITH BLADE AND JAMB SEAL TO MATCH GREENHECK TYPE VCD-23.

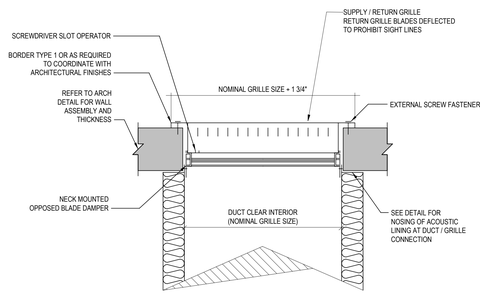
10 RECTANGULAR TYPICAL VOLUME DAMPER DETAIL
NTS



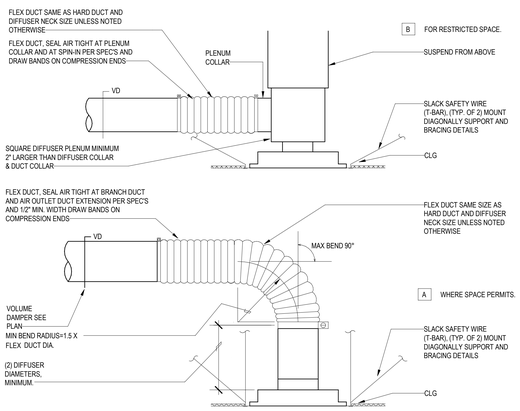
SIZING CHART	
CFM	* SIZE (IN)
UP TO 400	14"Ø OR 12x12
401 TO 600	16"Ø OR 18x12
601 TO 800	18"Ø OR 24x12
801 TO 1000	20"Ø OR 30x12
1001 TO 1500	24"Ø OR 30x16
1501 TO 2000	28"Ø OR 34x20
OVER 2000	USE MULT TRD'S

* UNLESS OTHERWISE NOTED

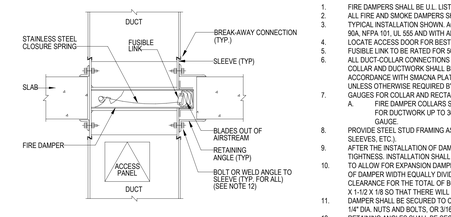
9 TRANSFER DUCT
NTS



6 DIFFUSER CONNECTION DETAIL FOR FLUSH MOUNTED GRILLES
NTS

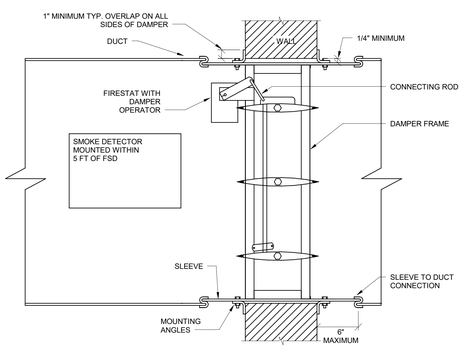


5 DUCTED CEILING DIFFUSER (TYP.)
NTS



1. FIRE DAMPERS SHALL BE U.L. LISTED AND LABELED.
2. ALL FIRE AND SMOKE DAMPERS SHALL BE RATED TO MAINTAIN. THE RATING OF THE FIRE SEPARATION.
3. TYPICAL INSTALLATION SHOWN. ACTUAL INSTALLATION SHALL COMPLY. WITH REQUIREMENTS OF NFPA 90A, NFPA 101, UL 555 AND WITH ALL MANUFACTURER'S RECOMMENDATIONS.
4. LOCATE ACCESS DOOR FOR BEST ACCESS TO LINK.
5. FUSIBLE LINK TO BE RATED FOR 50 PERCENT ABOVE MAXIMUM. OPERATING TEMPERATURE OF SYSTEM.
6. ALL DUCT-COLLAR CONNECTIONS SHALL COMPLY WITH UL 555. AND SMACNA. CONNECTIONS BETWEEN COLLAR AND DUCTWORK SHALL BE BREAKAWAY TYPE SUCH AS "S" SLIP, CRIMP, OR OTHER SLIP TYPE IN ACCORDANCE WITH SMACNA PLATE 15A, 4th EDITION AND PLATE 1, SMACNA FIRE DAMPER GUIDE, 1986 UNLESS OTHERWISE REQUIRED BY CODE.
7. GAUGES FOR COLLAR AND RECTANGULAR DUCT SHALL BE AS FOLLOWS:
   A. FIRE DAMPER COLLARS SHALL BE SAME GAUGE AS DUCTWORK WITH A MINIMUM OF 16 GAUGE FOR DUCTWORK UP TO 36" WIDE. FOR DUCTWORK ABOVE 36" WIDE, THE COLLAR SHALL BE 14 GAUGE.
8. PROVIDE STEEL STUD FRAMING AS REQUIRED, TO ACCEPT THE FIRE DAMPER ASSEMBLY (INCLUDING SLEEVES, ETC.).
9. AFTER THE INSTALLATION OF DAMPERS, THE CONTRACTOR SHALL SEAL AND TAPE ALL JOINTS FOR AIR TIGHTNESS. INSTALLATION SHALL BE MADE AVAILABLE FOR INSPECTION BY ARCHITECT BEFORE TAPING.
10. TO ALLOW FOR EXPANSION DAMPERS SHALL HAVE SIDE CLEARANCES EQUAL TO BE 1/8" FOR EACH FOOT OF DAMPER WIDTH EQUALLY DIVIDED TO THE LEFT AND THE RIGHT OF THE COLLAR. THE MAXIMUM CLEARANCE FOR THE TOTAL OF BOTH SIDES SHALL BE 1/2" EACH. THE RETAINING ANGLES SHALL BE 1-1/2 X 1-1/2 X 1/8 SQ THAT THERE WILL BE A MINIMUM OF 1" OVERLAP ON THE FIRE SEPARATION.
11. DAMPER SHALL BE SECURED TO COLLAR, WITH EITHER 1/2" TACK WELDS, NO.10 SHEET METAL SCREWS, 1/4" DIA. NUTS AND BOLTS, OR 3/16" STEEL POP RIVETS, ALL 6" ON CENTER.
12. RETAINING ANGLES SHALL BE SECURED TO COLLAR, SLEEVE OR PLATE WITH EITHER 1/2" TACK WELDS, NO. 10 SHEET METAL SCREWS, 1/4"DIA. NUTS AND BOLTS, OR 3/16" STEEL POP RIVETS, ALL 6" CENTER.
13. WHERE HUNG CEILING DOES NOT HAVE REMOVABLE TILES, AN ACCESS DOOR (FIRE RATED WHERE REQUIRED) SHALL BE INSTALLED IN CEILING OR WALL NEAR LOCATION OF FIRE DAMPER.
14. ALL RETAINING ANGLES SHALL BE GALVANIZED STEEL.
15. INSTALL FIRE DAMPERS SO THE LOCKING DEVICE CAN BE ACCESSED WHEN THE DAMPER IS CLOSED.
16. FIRE DAMPER ACCESS DOORS SHALL BE LABELED/STENCILED WITH MIN. 1" LETTER " FIRE DAMPER ". ACCESS DOOR ON SIDE OF DUCT MINIMUM SIZE 18"X14" IF DUCT SIZE PERMITS. FOR SMALLER DUCTS MAKE DOOR 2" SMALLER THAN DUCT SIZE.

2 DUCT FIRE DAMPER
NTS



NOTES:

1. FIRE/SMOKE DAMPER TO BE UL LABELED, NFPA AND STATE FIRE MARSHAL APPROVED.
2. INSTALLATION DETAILS SHALL MEET NFPA 90A
3. LOCATE DUCT ACCESS DOOR FOR BEST ACCESS TO LINK.
4. FIRE DAMPER DETAIL SHOWN IS FOR REFERENCE ONLY.
   FIRE DAMPER SHALL BE STATE FIRE MARSHALL APPROVED AND INSTALLED STRICTLY PER MANUFACTURERS PRINTED INSTRUCTIONS. MANUFACTURERS INSTALLATION INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE INSPECTING AUTHORITIES.
5. ACCESS POINTS (PANELS) SHALL BE PERMANENTLY IDENTIFIED ON THE EXTERIOR BY A LABEL WITH LETTERS NOT LESS THAN 1/2 INCH IN HEIGHT SMOKE/FIRE DAMPER" PER CMC.
6. REFER TO DIVISION OF SCOPE MATRIX ON M-003 FOR SCOPE DELINEATION BETWEEN DIVISIONS 21, 23, 25, AND 26.

1 DAMPER - FIRE AND SMOKE
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ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

MGAC
Owner's Rep
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

OJB
Landscape Architect
OJB
711 Louisiana Street, Suite 111
Houston, TX 77002
Tel 713.529.9919

ARUP
MEP, Lighting, Security, and Acoustics Consultant
Arup - Texas Firm Reg. #1990
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.783.2787

DATUM ENGINEERS
Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

PAPE-DAWSON ENGINEERS
Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

PARRA & Co
Civil Engineer
Parra & Co
110 E. Houston Street, Floor 7
San Antonio, TX 78205
Tel 210.819.4848

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

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Date	Description
10/26/2023	100% DESIGN DEVELOPMENT
05/23/2024	50% CONSTRUCTION DOCUMENTS

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ISSUED DATE: 06/06/2024
ENGINEER / DESIGNER: TODD STONEBRAKER
ENGINEER LICENSE NUMBER: 88798 (TEXAS)

Project Name
ALAMO SITE - AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
MECHANICAL - AREA 5 - DETAILS

Scale
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M6.03

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SYMBOLS

SYMBOL	DESCRIPTION
S	SANITARY PIPING BELOW GRADE
S	SANITARY PIPING ABOVE GRADE
V	VENT PIPING
ST	STORM DRAINAGE PIPING
ST	STORM DRAINAGE PIPING BELOW GRADE
	COLD WATER PIPING
	HOT WATER PIPING
	HOT WATER RETURN PIPING
G	GAS PIPING
	SHUT-OFF VALVE
	CHECK VALVE
PR	PRESSURE REDUCING VALVE
	BALANCING VALVE ASSEMBLY
	COCK VALVE
	VALVE IN VERTICAL
	CURB VALVE
	MIXING VALVE
	PIPE DROP, RISE OR DOWN
	PIPE CONNECTION, TOP
	PIPE CONNECTION, BOTTOM
	PIPE UP
	"P" TRAP
	CLEANOUT
	CLEANOUT DECK PLATE
	CAPPED OUTLET
	DIELECTRIC UNION
	VENT THROUGH ROOF
	FLOOR DRAIN, AREA DRAIN
	FLOOR SINK
	ROOF DRAIN, OVERFLOW DRAIN
	YARD HYDRANT
	HOSE BIBB
	WALL HYDRANT
VB	VACUUM BREAKER ASSEMBLY
	THERMOMETER
	PRESSURE GAUGE W/VALVE
BFP	BACKFLOW PREVENTER
	FLOOR, AREA DRAIN (RISER)
	ROOF DRAIN (RISER)
	WATER HAMMER ARRESTOR
FAI	FRESH AIR INLET (FAI)
M	METER
F	WATER FILTER
	PUMP
	DIRECTION OF FLOW
	PIPE BREAK
P #	RISER DESIGNATION
ST #	LEADER DESIGNATION
* #	EQUIPMENT DESIGNATION

SYMBOLS

SYMBOL	DESCRIPTION
AV	ACID VENT PIPING
AW	ACID WASTE PIPING
CA	COMPRESSED AIR PIPING (INSTRUMENT GRADE)
GRW	GRAY WATER PIPING
EPD	EJECTOR PUMP DISCHARGE PIPING
FAI	FRESH AIR INLET
GW	GREASE WASTE PIPING
IW	INDIRECT WASTE PIPING
SPD	SUMP PUMP DISCHARGE PIPING
OD	OVERFLOW DRAINAGE PIPING
TF	TANK FILL PIPING
TW	TEPID WATER PIPING
NP	NON-POTABLE WATER PIPING
VAC	VACUUM PIPING
O2	OXYGEN PIPING
N2	NITROGEN PIPING
CO2	CARBON DIOXIDE PIPING
TP	TRAP PRIMER PIPING
	ELECTRIC HEAT TRACING
	EXISTING PIPING TO BE REMOVED
	EXISTING PIPING TO BE ABANDONED
	POINT OF DISCONNECTION FOR EXISTING WORK
	POINT OF CONNECTION NEW PIPE TO EXISTING
	MOTOR VALVE
	SOLENOID VALVE
	DIAPHRAGM VALVE
	BALANCING VALVE
	ANGLE VALVE
	OS & Y VALVE
	OS & Y VALVE IN VERTICAL
	GAS PRESSURE REGULATOR
	AUTOMATIC AIR VENT VALVE
	T & P RELIEF VALVE
	BACKWATER VALVE
TP	TRAP PRIMER
	HOUSE TRAP
	AQUASTAT
EJ	EXPANSION JOINT
	FLEXIBLE CONNECTION
	EXPANSION LOOP
	CONCENTRIC REDUCER
	STRAINER Y-TYPE
	BASKET STRAINER
	STANDPIPE (RISER)
	WATERTIGHT PIPE SLEEVE, BEAM PENETRATION
GD	GUTTER DRAIN (RISER)
	FUNNEL DRAIN (RISER)
FS	FLOOR SINK (RISER)
MS	MOP SINK (RISER)
SH	SHOWER DRAIN (RISER)

ABBREVIATIONS

SYMBOL	DESCRIPTION
AD	AREA DRAIN
ARCH	ARCHITECTURAL
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
CA	COMPRESSED AIR
CLG	CEILING
CO	CLEANOUT
CODP	CLEANOUT DECK PLATE
COWP	CLEANOUT WALL PLATE
CONN	CONNECTION
CONT	CONTINUATION
CW	DOMESTIC COLD WATER
DCV	DOUBLE CHECK VALVE
DET	DETAIL
DFU	DRAINAGE FIXTURE UNIT
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DRAIN
DWG	DRAWING
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
EQ	EQUAL
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXIST	EXISTING
FAI	FRESH AIR INLET
FC	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK
F.F.	FINISH FLOOR
FL	FLOOR
G	GAS PIPING
GAL	GALLON
GD	GUTTER DRAIN
GH	GROUND HYDRANT
GPM	GALLON PER MINUTE
HB	HOSE BIBB
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
I.E.	INVERT ELEVATION
IW	INDIRECT WASTE
LG	LOW PRESSURE GAS
MAX	MAXIMUM
MECH	MECHANICAL
MG	MEDIUM PRESSURE GAS
MH	MANHOLE
MIN	MINIMUM
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OD	OVERFLOW DRAIN
PRV	PRESSURE REDUCING VALVE
RD	ROOF DRAIN
RPZ	REDUCED PRESSURE ZONE
S	SANITARY WASTE
SF	SQUARE FEET
ST	STORM DRAINAGE
TD	TRENCH DRAIN
TP	TRAP PRIMER
TYP	TYPICAL
V	VENT
UON	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD
VLV	VALVE
VTR	VENT THROUGH ROOF
W	WASTE
W/	WITH
WC	WATER CLOSET
WCO	WALL CLEANOUT
W/O	WITHOUT
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
YH	YARD HYDRANT

PLUMBING DRAWING LIST - 5 LOWER PASEO

DRG NO.	DRAWING TITLE	SCALE
P0.00	PLUMBING - AREA 5 - SYMBOLS, ABBREVIATIONS & SHEET LIST	NTS
P0.01	PLUMBING - AREA 5 - GENERAL NOTES	NTS
P0.11	PLUMBING - AREA 5 - SCHEDULES	NTS
P1.00	PLUMBING - AREA 5 - ORIENTATION PLAN	1/16" = 1'-0"
P1.01	PLUMBING - AREA 5 - DEMOLITION PLAN - LOWER PASEO	1" = 10'-0"
P1.11	PLUMBING - AREA 5 - FLOOR PLAN - LOWER PASEO	1" = 10'-0"
P5.01	PLUMBING - AREA 5 - DIAGRAMS, PART PLANS	NTS
P6.01	PLUMBING - AREA 5 - DETAILS	AS NOTED

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

MGAC
Owner's Rep
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

OJB
Landscape Architect
OJB
711 Louisiana Street,
Suite 111
Houston, TX 77002
Tel 713.529.9919

ARUP
MEP, Lighting, Security, and Acoustics Consultant
Arup - Texas Firm Reg. #1990
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.783.2787

DATUM ENGINEERS
Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

PAPE-DAWSON ENGINEERS
Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

PARRA & Co
Civil Engineer
Parra & Co
110 E. Houston Street, Floor 7
San Antonio, TX 78205
Tel 210.819.4848

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PLUMBING - AREA 5 - SYMBOLS, ABBREVIATIONS & SHEET LIST

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GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO N.Y. CITY BUILDING CODES AND REGULATIONS
2. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES RELATING TO WORK TO VERIFY SPACE IN WHICH WORK WILL BE INSTALLED. MAINTAIN HEADROOM AND SPACE CONDITIONS AT ALL TIMES.
3. COORDINATE PLUMBING SYSTEMS WITH WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
4. PLATFORMS, PITS, AND FLASHING FOR PLUMBING EQUIPMENT SHALL BE AS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL PLANS, UNLESS NOTED OTHERWISE. COORDINATE EXACT SIZES OF REQUIRED OPENINGS AND SUPPORTS FOR FURNISHED EQUIPMENT.
5. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODES. PROVIDE ALL FITTINGS, TRANSITIONS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION. c
6. MAINTENANCE LABEL SHALL BE AFFIXED TO ALL PLUMBING EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED TO OWNER.
7. CONTRACTOR SHALL REFER TO ALL THE ARCHITECTURAL DRAWINGS FOR PLUMBING RELATED WORK.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS INCLUDING BUT NOT LIMITED TO STREET EXCAVATION & REPAIRS, CONNECTION TO PUBLIC UTILITIES, USE OF WATER AND NEW WORK, ETC. PRIOR TO COMMENCING OF WORK.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING AND REMOVING GREASE FROM ALL EXPOSED PIPING AND LEAVE PIPING IN CONDITION READY FOR PAINTING.
10. PROVIDE TRAP PRIMER AND ASSOCIATED PIPING FOR ALL TOILET AND LABORATORY DRAINS.
11. PROVIDE HOSE BIBS UNDER ALL TOILET COUNTERS.
12. PROVIDE SPRING LOADED CHECK VALVES ON THE PUMP DISCHARGE SIDE FOR QUIET OPERATION.
13. PROVIDE PRESSURE GAUGES ON INLET AND OUTLET SIDES OF HOT WATER RECIRCULATION PUMPS.
14. ALL CONNECTIONS TO THE PUMPS AND EQUIPMENT SHALL HAVE EITHER FLANGED OR UNION CONNECTIONS.
15. PROVIDE SHUT OFF VALVES AND DRAIN VALVES ON ALL SYSTEM RISERS WHETHER INDICATED ON THE DRAWING OR NOT.
16. PROVIDE LINK SEAL AT THE EXTERIOR WALL PENETRATIONS FOR WATER TIGHT SEAL.
17. PROVIDE HOSE BIBS IN ALL MECHANICAL ROOMS.
18. RPZ INSTALLATION SHALL HAVE 12 INCH CLEARANCE AT THE BACK SIDE AND 30 INCHES IN FRONT.
19. ALL AUTOMATIC VALVES TO BE TESTED IN ACCORDANCE WITH PROCEDURES IDENTIFIED BY CLIENT.
20. ALL EXTERNAL WALL HYDRANTS TO BE ANTIFREEZE TYPE. PROVIDE SHUTOFF VALVE AND DRAIN POINT FOR WINTER APPLICATION.
21. BASIS OF MANUFACTURER FOR URINAL AND WATER CLOSET TO BE AMERICAN STANDARD OR KOHLER. THE WATER CLOSET SHALL HAVE SLOAN BATTERY OPERATED SENSOR FLUSH VALVE - G2 OPTIMA PLUS, AS AN ALTERNATE THE CONTRACTOR SHALL PROVIDE DUAL FLUSH TYPE UPPER CUT FLUSH-O-METER. THE LAVATORY SHALL HAVE SLOAN OPTIMA PLUS ERF SERIES FAUCETS.
22. SOLDER SHALL BE 95-5 OR BETTER. NO LEAD SOLDERING OR 50-50 WILL BE PERMITTED.
23. NO SCHEDULE 10 PIPE WILL BE PERMITTED.
24. CONTRACTOR SHALL PROVIDE COPY OF PIPING TEST PROCEDURE AND METHODOLOGY OF TESTING PRIOR TO SYSTEM INSTALLATION. THE TESTING PROCEDURE WILL BE REVIEWED BY THE CLIENT AND THE COPY OF THIS PROCEDURE WILL BE MAINTAINED AT THE JOB SITE.
25. FLANGES WILL BE PERMITTED FOR DIELECTRIC JOINTS. WHEN FLANGES ARE USED THE NUTS, BOLTS AND WASHERS NEED TO BE DIELECTRIC TYPE.
26. PIPE SIZE SHOWN ON THE RISER DIAGRAM SUPERSEDES PLAN INFORMATION.
27. CONTRACTOR SHALL PROVIDE A 5' DIAMETER DEPRESSED DIMPLE AROUND ALL FLOOR DRAINS, U.O.N.
28. ALL PIPE WELLS FOR USE WITH SENSORS AND/OR THERMOMETERS WILL USE THERMAL GEL TO FILL THE VOID BETWEEN WELL WALL AND SENSOR/THERMOMETER.
29. THE CONTRACTOR SHALL PROVIDE 3 SETS OF AS BUILT DRAWINGS IN AUTO CAD FORMAT AT COMPLETION OF THE JOB, AND 3 COMPLETE OF OPERATION & MAINTENANCE MANUALS FOR ALL MAJOR PIECES OF EQUIPMENT AND SYSTEM COMPONENTS.
30. CONTRACTOR SHALL RETAIN ON-SITE COPIES OF ALL DELIVERIES OF MATERIALS AND/OR SIGNED APPROVAL FOR MATERIALS NOT SPECIFIED OR USED IN PLACE OF SPECIFIED MATERIAL.
31. ALL CONTRACTORS AND SUB-CONTRACTORS SHALL USE STANDARD SAFETY EQUIPMENT THROUGH THE COURSE OF THE PROJECT INCLUDING BUT NOT EXCLUSIVE TO HARD HATS, WORK SHOES, DUST MASKS, EYE PROTECTION, EAR PROTECTION, GLOVES, FALL PROTECTION. ALL CONTRACTORS & SUB-CONTRACTORS EMPLOYEES NOT USING STANDARD SAFETY DEVICES SHALL BE REMOVED FROM THE JOB SITE.
32. THE CONTRACTORS SHOP DRAWINGS SHALL PROVIDE COMPLETE INFORMATION ON INERTIA BASES FOR FLOOR MOUNTED PUMPS, SEISMIC DETAILS FOR ALL TRADES AS REQUIRED.
33. THE CONTRACTOR SHALL COMPLY WITH ALL CLIENT STANDARDS, RULES & REGULATIONS.
34. PIPE COLOR CODE:

    DOMESTIC HOT WATER: ORANGE WITH 2 VERTICAL RED STRIPES EVERY 15 FEET
    DOMESTIC HOT WATER RETURN: YELLOW WITH TWO VERTICAL RED STRIPES EVERY 15 FEET
    DOMESTIC COLD WATER: WHITE
35. ALL PLUMBING EQUIPMENT SHALL BE LABELED WITH UNIT NUMBERS AND SYSTEM IT SERVES.
36. COORDINATE INSTALLATION OF ACCESS PANELS WITH GENERAL CONTRACTOR.
37. PROVIDE STRAINER AHEAD OF ALL CONTROL VALVES.

DEMOLITION NOTES

1. DEMOLITION PLANS ARE PROVIDED TO SHOW GENERAL CONCENTRATION OF DEMOLITION WORK. ADDITIONAL DEMOLITION WORK MAY BE NECESSARY IN AREAS WHERE NO DEMOLITION WORK IS INDICATED. ITEMS TO REMAIN AND POINTS OF DISCONNECTIONS/CONNECTIONS ARE SHOWN ON NEW PLANS.
2. CONTRACTOR SHALL REMOVE ANY PLUMBING FIXTURES LOCATED IN AREAS TO BE DEMOLISHED.
3. CONTRACTOR SHALL REMOVE ANY EXISTING PIPING IN CONFLICT WITH THE ERECTION OF NEW WALLS AND RELOCATE TO MAINTAIN SERVICE.
4. EACH BIDDER PRIOR TO BID SHALL VISIT THE SITE TO EXAMINE EXISTING CONDITIONS AND BECOME INFORMED OF THE EXTENT AND CHARACTER OF WORK REQUIRED. NO ADDITIONAL COMPENSATION WILL BE APPROVED DUE TO FIELD CONDITIONS.
5. EXACT SIZES AND LOCATIONS OF ALL EXISTING PIPING SHALL BE VERIFIED IN FIELD.
6. ALL EXISTING PIPING TO REMAIN SHALL BE PROTECTED FROM DAMAGE DURING DEMOLITION. ANY DAMAGES INCURRED SHALL BE REPAIRED OR REPLACED AT NO COST BY THIS CONTRACTOR.
7. ALL COSTS RESULTING FROM TEMPORARY SHUTDOWNS OF SERVICES SHALL BE BORNE BY THIS CONTRACTOR.
8. SCOPE OF DEMOLITION WORK IN EQUIPMENT ROOMS: REMOVE EXISTING FIRE PUMP, JOCKEY PUMP, FIRE PUMP CONTROLLER, SEWAGE EJECTORS, WATER HEATERS, DOMESTIC WATER PUMPS, AIR COMPRESSORS AND ALL ASSOCIATED ACCESSORIES. DISPOSE EQUIPMENT AS DIRECTED BY OWNER.
9. CONTRACTOR SHALL MAINTAIN FULL SERVICE TO EXISTING AREAS THAT ARE TO REMAIN. CONTRACTOR SHALL VISIT THE PREMISES TO ASCERTAIN EXISTING CONDITIONS AND AREAS TO REMAIN IN SERVICE.
10. PLUMBING DEMOLITION SHALL BE PROVIDED ON SECTION-BY-SECTION BASIS IN FULL COORDINATION WITH NEW PHASING WORK AND PHASING PLANS.
11. REFER TO ARCHITECTURAL AND PHASING DRAWINGS FOR MORE INFORMATION REGARDING ALL AREAS AFFECTED BY NEW CONSTRUCTION, PHASING WORK DESCRIPTION AND CONTRACT LIMIT LINES.
12. DEMOLITION WORK, NEW WORK AND CONNECTIONS TO EXISTING SHALL BE PROVIDED WITH MINIMUM INTERFERING WITH THE OPERATION OF THE FACILITY. PLUMBING SERVICE SHUTDOWNS OR INTERFERENCE WITH THE ACTIVE AREAS SHALL NOT BE PERMITTED WITHOUT PERMISSION OF THE OWNER. NOTIFICATION OF THE OWNER IN ADVANCE IN WRITING IS REQUIRED PRIOR TO ANY SHUTDOWN. MAKE TEMPORARY CONNECTIONS IF NECESSARY TO INSURE CONTINUOUS OPERATION.
13. IN THE PROCESS OF DEMOLITION, THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION TO PREVENT DAMAGE TO ARCHITECTURAL SURFACES AND MATERIALS INCLUDING WALLS, FLOORS CEILINGS, WINDOWS, DOORS, MOLDINGS, STRUCTURAL MEMBERS, ETC. THE COST TO REPAIR OR REPLACE ANY MATERIAL DEEMED BY THE ARCHITECT TO HAVE BEEN UNDULY DAMAGED BY THIS CONTRACTOR DURING DEMOLITION OR CONSTRUCTION SHALL BE PAID BY THIS CONTRACTOR AT NOT ADDITIONAL COST TO THE OWNER.
14. ALL PLUMBING WORK IN ADJOINING AREAS WHICH IS REQUIRED TO FUNCTION BUT IS AFFECTED BY DEMOLITION AND/OR PHASING WORK SHALL BE RECONNECTED AND RESTORED TO ITS PRESENT FUNCTION AS PART OF NEW PLUMBING SYSTEM OF THE BUILDING.
15. EXISTING WATER AND GAS SERVICES SHALL BE REMOVED AND CAPPED AT THE BUILDING WALL AS SHOWN ON THE DRAWINGS.

SUBMITTALS

1. CONTRACTOR SHALL REFER TO SECTION 013300 DIVISION 1 OF THE GENERAL REQUIREMENTS SPECIFICATION FOR THE PROCEDURES OF ALL SUBMITTALS IN ADDITION TO THE REQUIREMENTS LISTED BELOW.
2. THE CONTRACTOR SHALL PREPARE AND MAINTAIN A SUBMITTAL REVIEW SCHEDULE, CLEARLY INDICATING THE NUMBER AND TYPE OF SUBMITTALS ISSUED TO THE DESIGN TEAM EACH WEEK.
3. SUBMITTALS SHALL BE ISSUED TO THE DESIGN TEAM IN THE ORDER IN WHICH REVIEWS ARE REQUIRED BY THE CONTRACTOR. THE DESIGN TEAM WILL ONLY REVIEW SUBMITTALS IN THE ORDER IN WHICH THEY WERE RECEIVED.
4. SUBSTITUTION REQUESTS, REMEDIAL WORKS FOR FIELD CONDITIONS, REMEDIAL WORKS FOR CONTRACTOR ERRORS, AND SIMILAR CONDITIONS SHALL BE AGREED BY THE DESIGN TEAM IN WRITING PRIOR TO THEIR ISSUANCE BY THE CONTRACTOR AS A SUBMITTAL.
5. ONLY SUBMITTALS REQUIRED BY THESE SPECIFICATIONS, AS WELL AS ANY ADDITIONAL SUBMITTALS AGREED TO IN WRITING, SHALL BE REVIEWED BY THE DESIGN TEAM.
6. THE DESIGN TEAM RESERVES THE RIGHT TO REJECT SUBMITTALS IF ANY OF THE REQUIREMENTS STATED IN THIS SECTION ARE NOT MET.
7. THE CONTRACTOR UNDERSTANDS THAT AN ORDERLY SUBMITTAL PROCESS, MEETING THE CONDITIONS STATED IN THIS SECTION, IS A PRE-REQUISITE FOR THE DESIGN TEAM TO MEET THE AGREED SUBMITTAL REVIEW PERIODS.
8. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS SIGNED BY A DRO OR CSE INCLUDING REGISTRATION NUMBER AS REQUIRED BY THE SPECIFICATIONS, FOR ENGINEER'S APPROVAL.
9. ONLY SHOP DRAWINGS MARKED "NO EXCEPTIONS TAKEN", "REVISE AS NOTED" OR "SEE COMMENTS NOTED" MAY BE USED BY CONTRACTOR IN THE WORK. SHOP DRAWINGS MARKED "REJECTED" OR "RESUBMIT FOR REVIEW" SHALL BE CORRECTED AND COMPLETED AS REQUIRED AND RESUBMITTED TO THE ARCHITECT AND REVIEWED BY THE ARCHITECT BEFORE THEY ARE USED IN THE WORK.
10. THE REVIEW PERIOD FOR SUBMITTALS AND SHOP DRAWINGS SHALL BE 21 CALENDAR DAYS FROM RECEIPT OF SUBMITTAL OR SHOP DRAWING
11. THE REVIEW PERIOD FOR REQUESTS FOR INFORMATION SHALL BE 7 CALENDAR DAYS FROM RECEIPT OF REQUEST FOR INFORMATION.

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

MGAC
Owner's Rep
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

OJB
Landscape Architect
OJB
711 Louisiana Street, Suite 111
Houston, TX 77002
Tel 713.529.9919

ARUP
MEP, Lighting, Security, and Acoustics Consultant
Arup - Texas Firm Reg. #1990
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.783.2787

DATUM ENGINEERS
Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

PAPE-DAWSON ENGINEERS
Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

PARRA&Co
Civil Engineer
Parra & Co
110 E. Houston Street, Floor 7
San Antonio, TX 78205
Tel 210.819.4848

DATACOM DESIGN GROUP
AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

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ISSUED DATE: 06/06/2024
ENGINEER / DESIGNER: TODD STONEBRAKER
ENGINEER LICENSE NUMBER: 88798 (TEXAS)

Project Name

ALAMO SITE - AREA 5 - LOWER PASEO

Project Number

122.0076.500

Description

PLUMBING - AREA 5 - GENERAL NOTES

Scale

12" = 1'-0"

P0.01

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PLUMBING FIXTURE SCHEDULE

DESIGNATION	DESCRIPTION	WASTE	VENT	CW	HW	HW TEMPERATURE	FLOW RATE	FIXTURE MODEL	FAUCET MODEL	NOTES
P-1	WATER CLOSET	4"	2"	½"	-	-	1.28 GPF			WALL MOUNTED
P-1A	WATER CLOSET (HANDICAPPED)	4"	2"	½"	-	-	1.28 GPF			WALL MOUNTED
P-2	URINAL	2"	2"	¾"	-	-	0.125 GPF			WALL MOUNTED
P-2A	URINAL (HANDICAPPED)	2"	2"	¾"	-	-	0.125 GPF			WALL MOUNTED
P-3	LAVATORY	1½"	1½"	½"	½"	110°F	0.5 GPM			WALL MOUNTED
P-4	MOP SINK	3"	2"	½"	½"	110°F	1.5 GPM			
P-6	ELECTRIC WATER COOLER	1½"	1½"	½"	-	-	-			

DRAIN SCHEDULE

ITEM		DESCRIPTION	BASIS OF DESIGN MANUFACTURER	MODEL NO.	BODY MATERIAL	TOP COVER	GRATE OR STRAINER MATERIAL	DUTY	NOTES
TYPE	NO.								
FD	1	FLOOR DRAIN			DUCO CAST IRON	6" ROUND	CAST IRON	MEDIUM	
FD	2	FLOOR DRAIN			DUCO CAST IRON	6" ROUND	CAST IRON	MEDIUM	
FS	1	FLOOR SINK			DUCO CAST IRON	12"x12" SQUARE	CAST IRON	MEDIUM	

WATER HEATER SCHEDULE

ITEM		EQUIPMENT DESCRIPTION	DIMENSIONS [IN]	STORAGE [GAL]	RECOVERY [GPH]	TEMP. IN [°F]	TEMP. OUT [°F]	ELECTRICAL			LOCATION	MANUFACTURER	MODEL NO.	NOTES
								POWER [kW]	VOLTAGE [V]	PHASE [PH]				
TYPE	NO.													
WH	1	ELECTRIC WATER HEATER		50	23	60	140	4.5	480	3		LOCHINVAR	LDS-50 XK	

PLUMBING PUMP SCHEDULE

ITEM		EQUIPMENT DESCRIPTION	MOTOR			CAPACITY [GPM]	PUMP HEAD [FT WC]	MANUFACTURER	MODEL NO.	NOTES
			WATTS	V	PH					
TYPE	NO.									
RCP	1	DOMESTIC HOT WATER RECIRCULATION PUMP	38	115	1	2	14.00	GRUNDFOS	ALPHA HWR	

EXPANSION TANK SCHEDULE

ITEM		DESCRIPTION	ZONE	SYSTEM	VOLUME [GAL]		PRESSURE [PSI]			TEMPERATURE [°F]		OVERALL DIMENSION OF TANK [IN]		MANUFACTURER	MODEL NO.	NOTES
					TANK	ACCEPTANCE	INCOMING	PRE-CHARGED	MAX.	MIN	MAX	DIAMETER	HEIGHT			
TYPE	NO.															
ET	1	THERMAL EXPANSION TANK	-	DOMESTIC WATER	4	2	55	50	150	50	140	10"	1' - 2"	LOCHINVAR	LTCPA5	

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
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Project Name
ALAMO SITE - AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
PLUMBING - AREA 5 - SCHEDULES

Scale

P0.11

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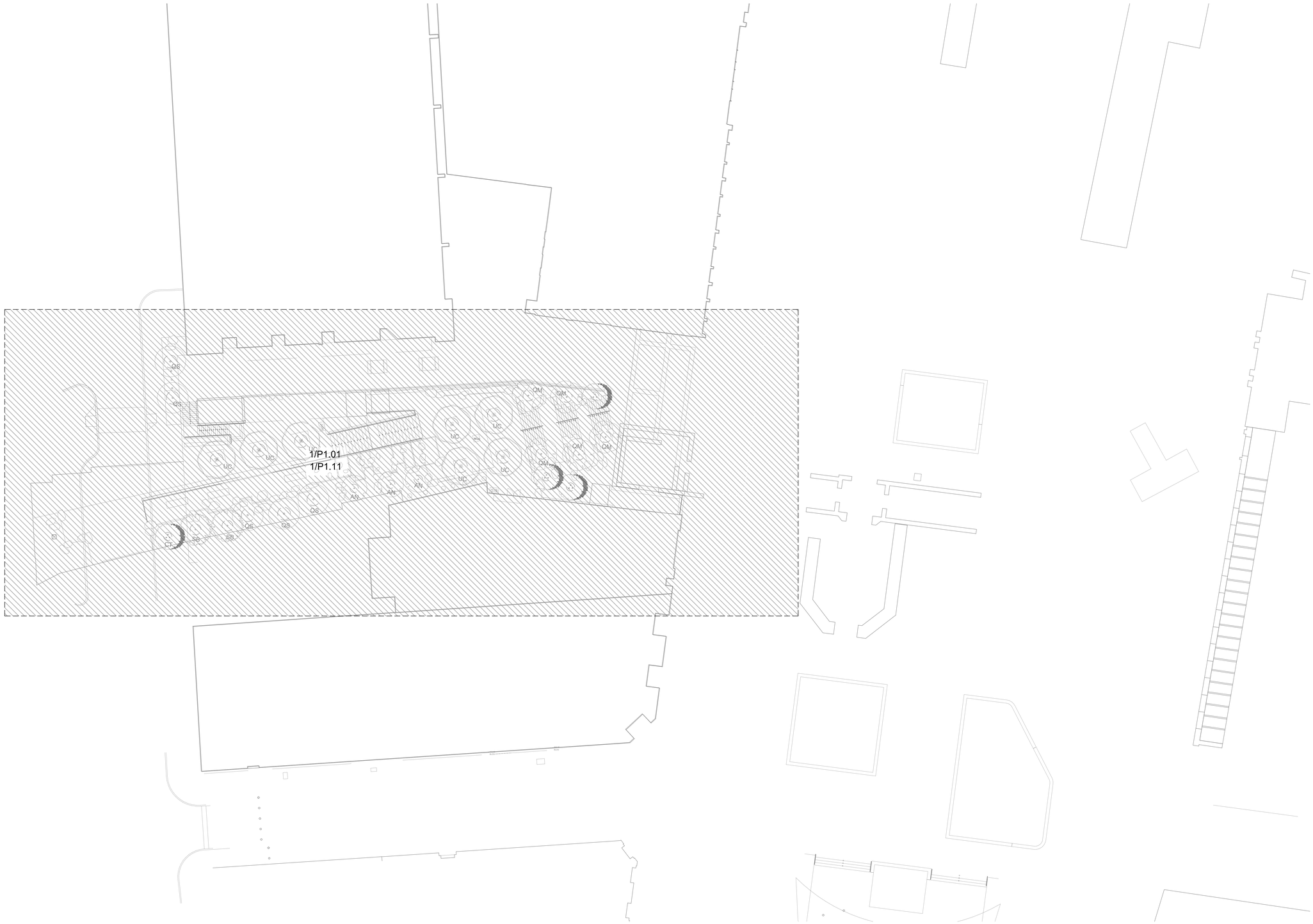

1 5 LOWER PASEO - PLUMBING - ORIENETATION PLAN
1/16" = 1'-0"

ALAMO TRUST INC.

317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler

229 E. Houston St.
Suite 200
San Antonio, TX 78205
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Tel 210.222.8059

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The Texas General Land Office
1700 Congress Ave.
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San Antonio, TX 78205
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Project Name
ALAMO SITE - AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
PLUMBING - AREA 5 - ORIENTATION PLAN

Scale
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P1.00

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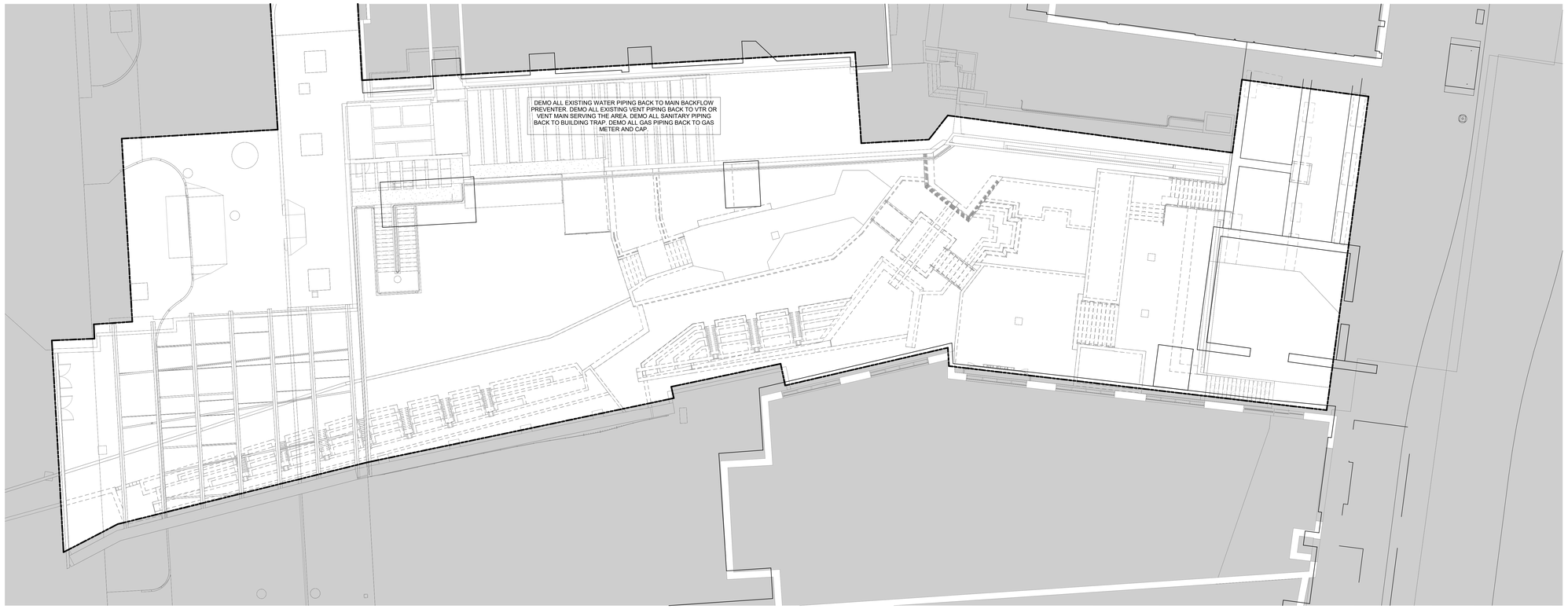

1 5 LOWER PASEO - PLUMBING DEMOLITION PLAN
1" = 10'-0"

GENERAL NOTES

SHEET NOTES

KEY VALUE KEYNOTE TEXT

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
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Fax 512.463.5001

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Tel 210.225.1391

Owner's Rep
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

Landscape Architect
OJB
711 Louisiana Street, Suite 111
Houston, TX 77002
Tel 713.529.9919

MEP, Lighting, Security, and Acoustics Consultant
Arup - Texas Firm Reg. #1990
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.783.2787

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Datum Engineers, Inc.
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San Antonio, TX 78215
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San Antonio, TX 78213
Tel 210.375.9000

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Parra & Co
110 E. Houston Street, Floor 7
San Antonio, TX 78205
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DataCom Design Group, LLC.
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Austin, TX 78757
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Project Name
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Project Number
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Description
PLUMBING - AREA 5 - DEMOLITION PLAN - LOWER PASEO

Scale
1" = 10'-0"

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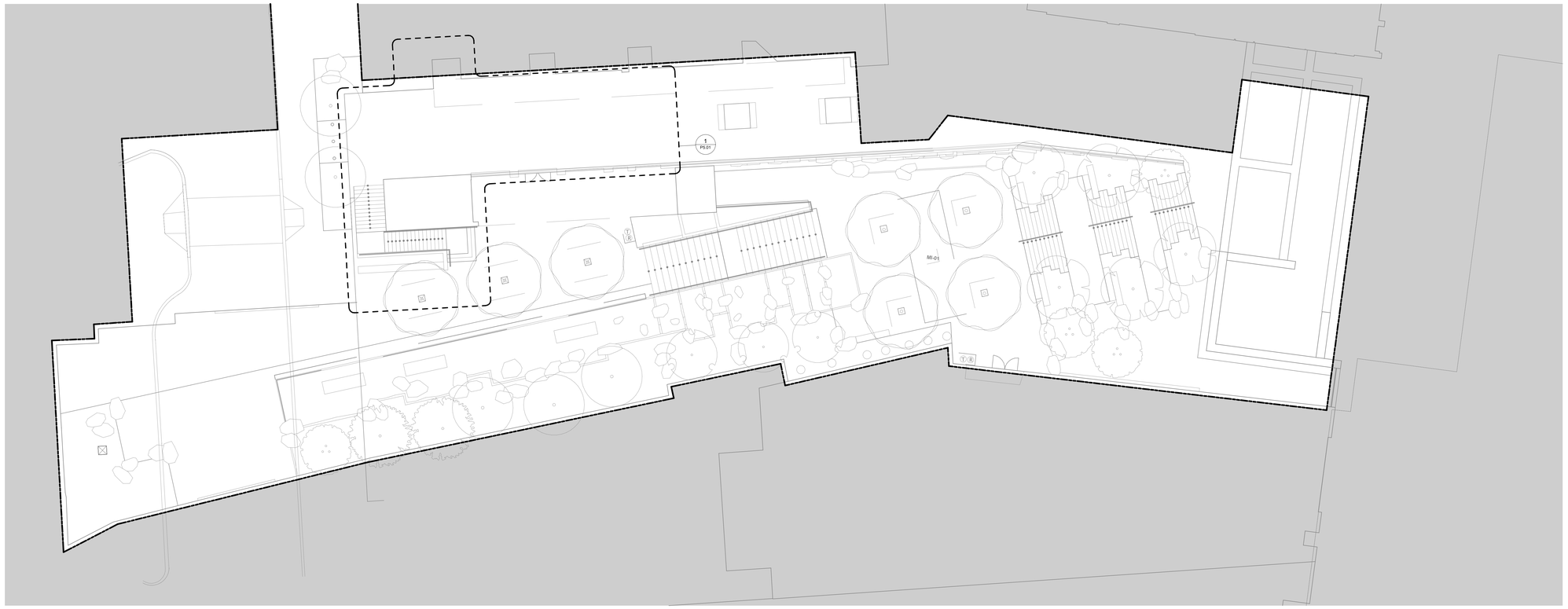

1 5 LOWER PASEO - PLUMBING FLOOR PLAN
1" = 10'-0"

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SHEET NOTES

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317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

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Project Number
122.0076.500

Description
PLUMBING - AREA 5 - FLOOR PLAN - LOWER PASEO

Scale
1" = 10'-0"

P1.11

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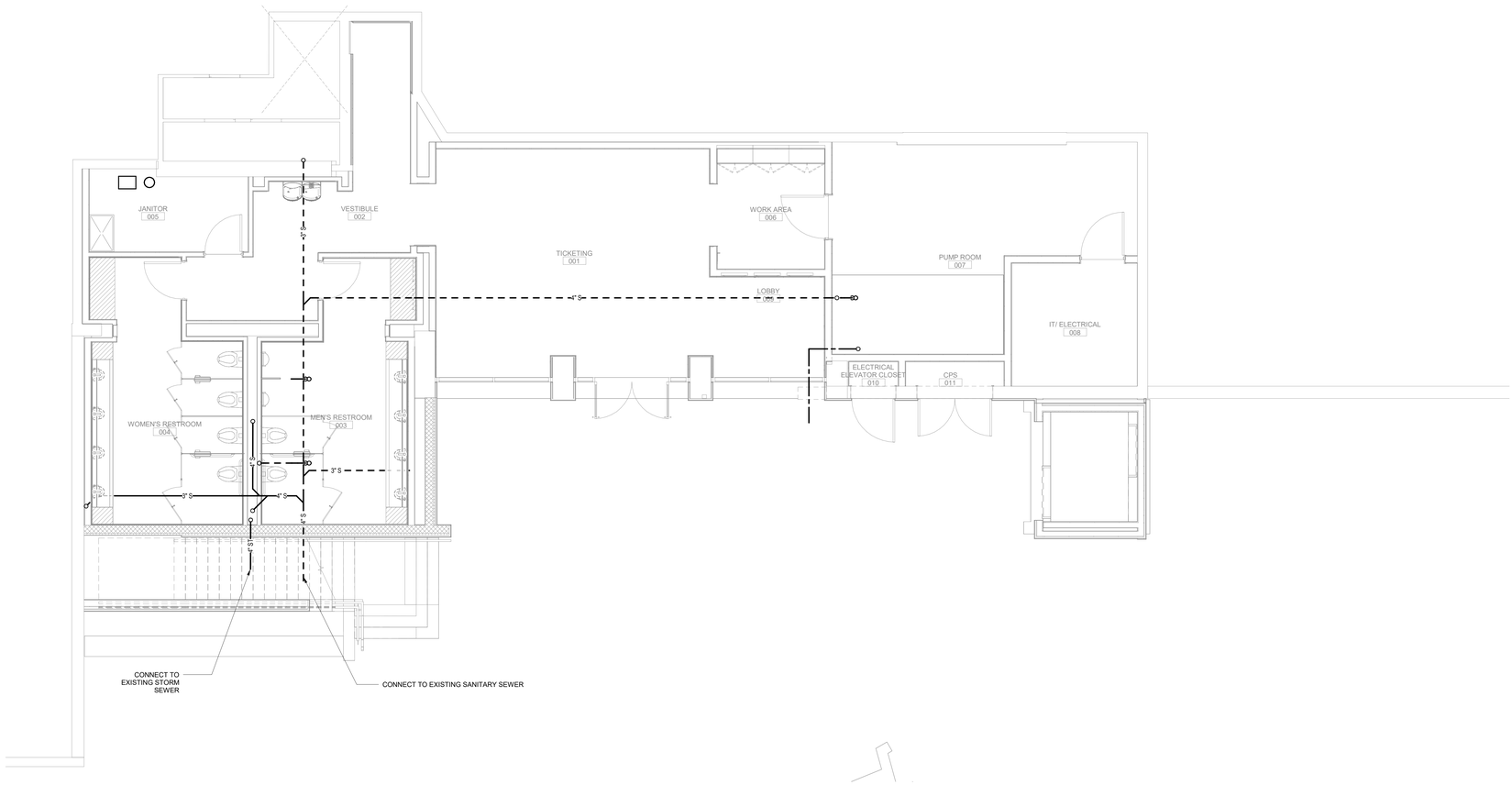
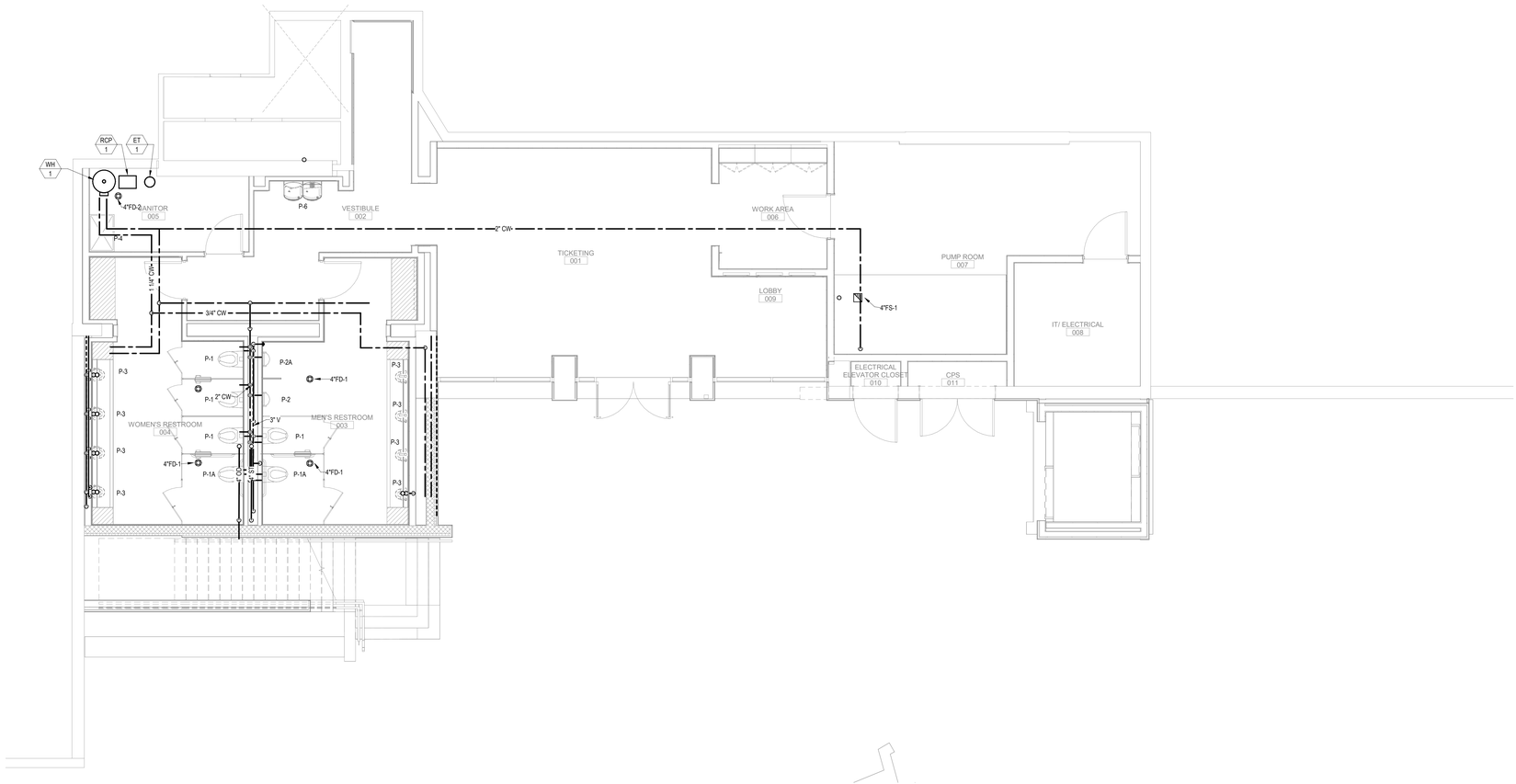


2 RIVER LEVEL - PLUMBING UNDERGROUND PLAN - TICKETING CENTER
1/4" = 1'-0"



1 RIVER LEVEL - PLUMBING FLOOR PLAN - TICKETING CENTER
1/4" = 1'-0"

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VALUE KEYNOTE TEXT

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ALAMO SITE - AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
PLUMBING - AREA 5 - DIAGRAMS, PART PLANS

Scale
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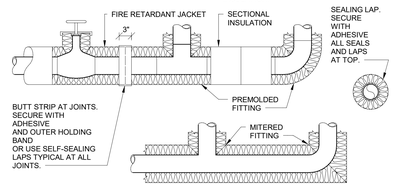
CONCEALED VALVES AND FITTINGS

- WRAP WITH 1 INCH THICK, 1 POUND DENSITY TO REQUIRED PIPE INSULATION THICKNESS.
- SECURE WITH WIRE OR TAPE.
- VAPOR SEAL COLD WATER, CHILLED WATER AND STORM WATER PIPING.

EXPOSED VALVES AND FITTINGS

- PREMOLDED OR RADIAL MITERED PIPE INSULATION.
- SKIM COAT OF INSULATION CEMENT.
- COAT OF MASTIC.
- WRAP WITH REINFORCING CLOTH OR ASJ JACKET.
- FINISH COAT OF MASTIC.
- OVERLAP 2 INCHES ON PIPE INSULATION.



NOTES:

1. THE USE OF STAPLES WILL NOT BE PERMITTED.
2. INSULATION OF PIPING, VALVES AND FITTINGS FOR EXPOSED OR CONCEALED LOCATION.

4 TYPICAL PIPE INSULATION DETAIL

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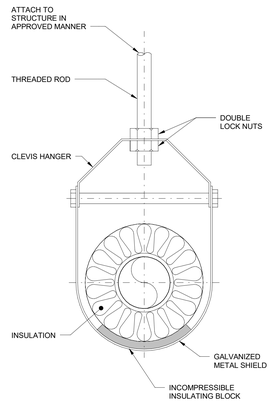

WITH IMCOMPRESSIBLE INSULATING BLOCK AT HANGER		
PIPE DIAMETER	SHIELD LENGTH	SHIELD THICKNESS
UP TO 3"	6"	18 USSG
4" TO 6"	8"	16 USSG
8" & LARGER	12"	16 USSG

WITHOUT IMCOMPRESSIBLE INSULATING BLOCK AT HANGER		
PIPE DIAMETER	SHIELD LENGTH	SHIELD THICKNESS
UP TO 3"	12"	18 USSG
4"	15"	16 USSG
5"	18"	16 USSG
6"	21"	16 USSG
8" & LARGER	24"	14 USSG

NOTES:
1. HANGER, ROD & INBSERT SHALL BE DIPPED IN ZINC CHROMATE PRIMER PRIOR TO INSTALLATION.
2. FOR HEAT-TRACED PIPING USE THE FOLLOWING INSULATION THICKNESS.

PIPE DIAMETER	FIBERGLASS INSULATION SHIELD LENGTH
1/2" TO 1"	1"
1-1/4" TO 2"	1-1/2"
2-1/2" TO 6"	2"

FOR NON HEAT-TRACED PIPING REFER TO SPECIFICATIONS

3 HANGER DETAIL

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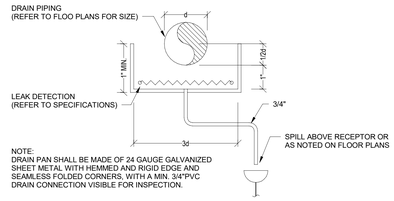

NOTE:
DRAIN PAN SHALL BE MADE OF 24 GAUGE GALVANIZED SHEET METAL WITH HEMMED AND RIGID EDGE AND SEAMLESS FOLDED CORNERS, WITH A MIN. 3/4"PVC DRAIN CONNECTION VISIBLE FOR INSPECTION.

2 DRIP PAN DETAIL

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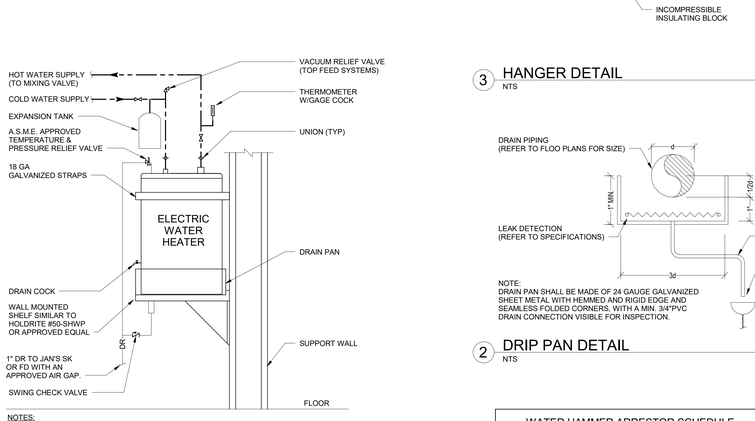
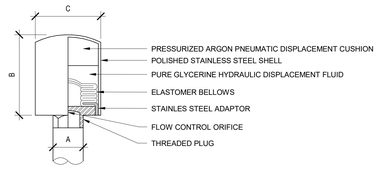


NOTES:
1. WATER HEATER SUPPORTS SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FIVE TIMES THE WEIGHT OF THE WATER-FILLED EQUIPMENT +250 lbs AT EACH POINT OF SUPPORT.
2. WATER HEATER SHALL HAVE INTEGRAL HEAT TRAP. IF NOT, HEAT TRAPS MUST BE PROVIDED.

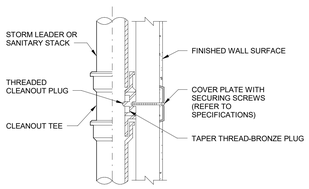
6 ELECTRIC WATER HEATER WALL MOUNTED

NTS

WATER HAMMER ARRESTOR SCHEDULE				
TYPE (WHA)	DIMENSION 'A' DIA	DIMENSION 'B'	DIMENSION 'C' DIA	FIXTURE UNIT CAPACITY
'A'	3/4"	4-1/2"	3-1/4"	1-11
'B'	1"	5-1/4"	3-1/4"	12-32
'C'	1"	6"	3-1/4"	33-60
'D'	1"	6-3/4"	3-1/4"	61-113
'E'	1"	6-3/4"	5"	114-154
'F'	1"	7-3/4"	5"	155-330



NOTES:
1. WATER HAMMER ARRESTORS SHALL BE ACCESSIBLE FOR MAINTENANCE. PROVIDE BALL VALVE AND ACCESS PANELS AT EACH LOCATION. COORDINATE LOCATIONS WITH ARCHITECT.



5 WALL CLEANOUT FOR CONCEALED PIPING BEHIND WALL

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1 WATER HAMMER ARRESTOR DETAIL

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ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

Owner's Rep
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

Landscape Architect
OJB
711 Louisiana Street, Suite 111
Houston, TX 77002
Tel 713.529.9919

MEP, Lighting, Security, and Acoustics Consultant
Arup - Texas Firm Reg. #1990
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.783.2787

Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

Civil Engineer
Parra & Co
110 E. Houston Street, Floor 7
San Antonio, TX 78205
Tel 210.819.4848

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

Seal / Signature

△	Date	Description
	10/26/2023	100% DESIGN DEVELOPMENT
	06/06/2024	50% CONSTRUCTION DOCUMENTS

PRELIMINARY
THESE DOCUMENTS ARE INCOMPLETE AND FOR INTERIM REVIEW ONLY. THEY ARE NOT INTENDED FOR REGULATORY APPROVAL, PERMIT OR CONSTRUCTION.
ISSUED DATE: 06/06/2024
ENGINEER / DESIGNER: TODD STONEBRAKER
ENGINEER LICENSE NUMBER: 88798 (TEXAS)

Project Name
ALAMO SITE - AREA 5 - LOWER PASEO

Project Number

Description
PLUMBING - AREA 5 - DETAILS

Scale
NTS

P6.01

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LIGHTING

SYMBOL	DESCRIPTION
	LIGHTING FIXTURE AND OUTLET BOX. - SHADED AREA FIXTURE ON EMERGENCY CIRCUIT

NOTE: SEE LIGHT FIXTURE SCHEDULE AND SPECIFICATIONS FOR COMPLETE FIXTURE DESCRIPTION.

WIRING DEVICES

SYMBOL	DESCRIPTION
$^{T}S_{a,b}$	LINE VOLTAGE SWITCH - LOWER CASE LETTER DENOTES SWITCHING ZONES - "T" DENOTES SWITCH TYPE: MC - MOMENTARY CONTACT D - DIMMER WP - WEATHER PROOF XP - EXPLOSION PROOF
$S_{a,b}$	LOW VOLTAGE SWITCH
	OCCUPANCY SENSOR, CEILING MOUNTED
	OCCUPANCY SENSOR, WALL MOUNTED
	PHOTOCELL CONTROLLER, CEILING MOUNTED
	PHOTOCELL CONTROLLER, WALL MOUNTED
LC	LIGHTING CONTACTOR
TC	TIME CLOCK
RC	REMOTE CONTROL SWITCH
	PUSH BUTTON
A +X"	LETTER DESIGNATION ON RECEPTACLES: A = ARC FAULT CIRCUIT INTERRUPTER G = GROUND FAULT CIRCUIT INTERRUPTER IG = ISOLATED GROUND WP = WEATHER PROOF WITH 'GFCI' S = SAFETY CT = ABOVE COUNTER CR = CRITICAL EQ = EQUIPMENT LS = LIFE SAFETY +X" = INDICATES MOUNTING HEIGHT SHADING = INDICATES RECEPTACLE ON EMERGENCY
	SIMPLEX RECEPTACLE WALL MOUNTED, +18" AFF, UON
	DUPLEX RECEPTACLE WALL MOUNTED, +18" AFF, UON SHADING = INDICATES GFCI RECEPTACLE.
	QUAD RECEPTACLE WALL MOUNTED, +18" AFF, UON
	SPECIAL RECEPTACLE WALL MOUNTED, +18" AFF, UON
	SIMPLEX RECEPTACLE CEILING MOUNTED
	DUPLEX RECEPTACLE CEILING MOUNTED
	QUAD RECEPTACLE CEILING MOUNTED
	SPECIAL RECEPTACLE CEILING MOUNTED
	SIMPLEX RECEPTACLE FLUSH FLOOR MOUNTED
	DUPLEX RECEPTACLE FLUSH FLOOR MOUNTED
	QUAD RECEPTACLE FLUSH FLOOR MOUNTED
	SPECIAL RECEPTACLE FLUSH FLOOR MOUNTED
	POKE THROUGH FLOOR BOX WITH OUTLETS AS SPECIFIED
	ACCESS FLOOR BOX WITH OUTLETS AS SPECIFIED
	JUNCTION BOX RECESSED WALL MOUNTED
J	JUNCTION BOX RECESSED CEILING MOUNTED
J	JUNCTION BOX RECESSED FLUSH FLOOR MOUNTED

LIGHTNING PROTECTION & GROUNDING

SYMBOL	DESCRIPTION
L	- 'L' DENOTES LIGHTNING PROTECTION MAIN CONDUCTOR
	LIGHTNING PROTECTION AIR TERMINAL
	THRU ROOF PENETRATION CABLE IN CONDUIT
	THRU ROOF PENETRATION TO STEEL
	FULL DOWNLEAD TO GROUND
	STEEL COLUMN BOND TO GROUND
	EXPOSED DOWNLEAD TO GROUND
G	- 'G' DENOTES COUNTERPOISE/GROUND CABLE
	TRIANGULAR GROUND GRID - THREE 3/4" x 10'-0" RODS SPACED 30'-0" MINIMUM APART INTERCONNECTED WITH 4/0 COPPER CONDUCTOR.
TW	GROUND ELECTRODE 3/4" COPPER ROD, 10'-0" DEEP - "TW" INDICATES TEST WELL
	GROUND ELECTRODE CONNECTION TO EQUIPMENT
	2"x1/4" COPPER GROUND BUS BAR, LENGTH AS INDICATED ON PLANS.
	GROUND PLATE CONNECTION SOLID COPPER, 24"x24"x20 GA.

POWER

SYMBOL	DESCRIPTION
4x AF	SAFETY DISCONNECT SWITCH, 3 POLE UON A: 30A UNFUSED AF: 30A FUSED B: 60A UNFUSED BF: 60A FUSED C: 100A UNFUSED CF: 100A FUSED D: 200A UNFUSED DF: 200A FUSED E: 400A UNFUSED EF: 400A FUSED - '4x' DENOTES NEMA ENCLOSURE IF INDICATED
4x CB 225	FUSED DISCONNECT SWITCH - NUMERICAL DENOTES TRIP SIZE - '4x' DENOTES NEMA ENCLOSURE IF INDICATED
	MOTOR CONTROL EQUIPMENT AND CONNECTION TO CONTROLLED MOTOR(S). CONTROLLER IS MOUNTED AGAINST AN ADJACENT WALL OR OTHERWISE REMOTE FROM THE MOTOR. SEE MOTOR EQUIPMENT SCHEDULE(S) FOR CIRCUITING, TYPE OF CONTROL EQUIPMENT, QUANTITY OF MOTORS CONNECTED TO CONTROLLER, AND OTHER DETAILS. CONDUCTOR SIZE BETWEEN CONTROLLER AND MOTOR SHALL MATCH THE UPSTREAM OF THE CONTROLLER UNLESS NOTED OTHERWISE ON THE SCHEDULE.
	MOTOR CONTROL EQUIPMENT AND CONNECTION TO CONTROLLED MOTOR(S). CONTROLLER IS EITHER INTEGRAL TO THE EQUIPMENT OR MOUNTED DIRECTLY ONTO THE EQUIPMENT. SEE MOTOR EQUIPMENT SCHEDULE(S) FOR CIRCUITING, TYPE OF CONTROL EQUIPMENT, QUANTITY OF MOTORS CONNECTED TO CONTROLLER, AND OTHER DETAILS. CONDUCTOR SIZE BETWEEN CONTROLLER AND MOTOR SHALL MATCH THE UPSTREAM OF THE CONTROLLER UNLESS NOTED OTHERWISE ON THE SCHEDULE.
PB	PULLBOX
T4	TRANSFORMER, SEE SCHEDULE FOR RATING
ATS	AUTOMATIC TRANSFER SWITCH, SEE RISER DIAGRAM FOR RATING
R6	RELAY - NUMERAL DENOTES NUMBER OF POLES
	SURFACE MOUNTED PANELBOARD
	FLUSH MOUNTED PANELBOARD
	FLOOR MOUNTED DISTRIBUTION/SWITCHBOARD

RACEWAYS

#/#	CONDUIT AND WIRE, HASH MARKS INDICATE NUMBER OF WIRES. # HASH MARKS INDICATES 3#12+1#10N+ 1#12G IN 3/4" CONDUIT UON.
	CONDUIT AND WIRE HOMERUN. CONTINUOUS RUN TO MCC, PANELBOARD, SWITCHBOARD OR EQUIPMENT CABINET.
	CONDUIT AND WIRE RUN IN WALL OR CEILING SPACE. OR RUN EXPOSED IN UNFINISHED SPACE.
	CONDUIT AND WIRE RUN EXPOSED ON WALL OR CEILING IN FINISHED SPACE.
	CONDUIT AND WIRE RUN CONCEALED IN SLAB, UNDER SLAB OR UNDERGROUND
	FLEXIBLE CONNECTION
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	CONDUIT CAPPED

MISCELLANEOUS

SYMBOL	DESCRIPTION
#	REFERENCE NOTE
E-3 A	DETAIL REFERENCE: - DETAIL DESIGNATION - SHEET NUMBER REFERENCE

VOICE/DATA

SYMBOL	DESCRIPTION
	WALL MOUNTED DATA OUTLET BOX WITH 3/4" EMT STUB UP TO 6" ABOVE HUNG CEILING AND STANDARD OUTLET BOX. BUSHED HOLE COVER-PLATE
	WALL MOUNTED VOICE OUTLET BOX WITH 3/4" EMT STUB UP TO 6" ABOVE HUNG CEILING AND STANDARD OUTLET BOX. BUSHED HOLE COVER-PLATE
	VOICE OUTLET BOX WITH 3/4" CONDUIT TO NEAREST CABLE TRAY OR DATA TERMINAL CABINET 'F' INDICATES PAYPHONE MOUNTED @ +42" AFF
	WALL MOUNTED COMBINATION VOICE/DATA OUTLET BOX WITH 1" EMT CONDUIT STUB UP TO 6" ABOVE HUNG CEILING. BUSHED HOLE COVER-PLATE
	FLOOR MOUNTED DATA OUTLET BOX WITH 3/4" EMT CONDUIT, EITHER CORED TO CEILING OF FLOOR BELOW, OR CHASED/ CAST IN FLOOR SLAB TO A LOCATION FOR ACCESS FROM CEILING ABOVE
	FLOOR MOUNTED VOICE OUTLET BOX WITH 3/4" EMT CONDUIT, EITHER CORED TO CEILING OF FLOOR BELOW, OR CHASED/ CAST IN FLOOR SLAB TO A LOCATION FOR ACCESS FROM CEILING ABOVE
	FLOOR MOUNTED COMBINATION VOICE/DATA OUTLET BOX WITH 1" EMT CONDUIT, EITHER CORED TO CEILING OF FLOOR BELOW, OR CHASED/ CAST IN FLOOR SLAB TO A LOCATION FOR ACCESS FROM CEILING ABOVE

SINGLE LINE DIAGRAM

SYMBOL	DESCRIPTION
PANEL	PANELBOARD, SEE PANEL SCHEDULE FOR RATING.
	FEEDER
ST TRIP	ENCLOSED SAFETY DISCONNECT SWITCH - 'TEXT' DENOTES FUSE ACCESSORIES - NUMERICAL DENOTES SWITCH SIZE
	ENCLOSED FUSED DISCONNECT SWITCH - 'TEXT' DENOTES FUSE ACCESSORIES - NUMERICAL DENOTES SWITCH SIZE
M	UTILITY METER
	GROUND CONNECTION

FIRE ALARM SYMBOLS

SYMBOL	DESCRIPTION
F	MANUAL PULL STATION
FA	MANUAL STATION HL - HALON DC - DRY CHEMICAL FO - FOAM WC - WET CHEMICAL WM - WATER MIST CA - CLEAN AGENT DL - DELUGE SPRINKLER PRE - PREACTION SYSTEM CO2 - CARBON DIOXIDE
FA	ABORT SWITCH HL - HALON DC - DRY CHEMICAL FO - FOAM WC - WET CHEMICAL CA - CLEAN AGENT WM - WATER MIST CO2 - CARBON DIOXIDE DL - DELUGE SPRINKLER PRE - PREACTION SYSTEM EPO - EMERGENCY POWER OFF
	FIRE SERVICE OR EMERGENCY TELEPHONE J - JACK H - HANDSET A - ACCESSIBLE FWS - FIRE WARDEN STATION
RR H RF H	HEAT DETECTOR CEILING/BRACKET MOUNT R/F - RATE OF RISE AND FIXED TEMPERATURE R/C - RATE COMPENSATION F - FIXED TEMPERATURE R - RATE OF RISE ONLY
P S AS S	SMOKE DETECTOR CEILING/BRACKET MOUNT P - PHOTOELECTRIC I - IONIZATION BR - BEAM RECEIVER AS - AIR SAMPLING BT - BEAM TRANSMITTER
S	SMOKE DETECTOR FOR DUCT
R S H	SMOKE/HEAT DETECTOR
H	HEAT LINE-TYPE DETECTOR (HEAT SENSITIVE CABLE)
GAS	GAS DETECTOR CO2 - CARBON DIOXIDE CO - CARBON MONOXIDE HCL - HYDROGEN CHLORIDE CH4 - METHANE
UV/IR	FLAME DETECTOR IR - INFRARED UV - ULTRAVIOLET UV/IR - COMBINATION ULTRAVIOLET/INFRARED VR - VISIBLE RADIATION
A	ADDRESSABLE MODULE AIM - INPUT MONITOR MODULE AOM - OUTPUT CONTROL MODULE IM - ISOLATION MODULE AIO - INPUT/OUTPUT MODULE (# - NUMBER OF INPUTS/OUTPUTS)
WF PS LS TS VS	WATER DETECTOR/SWITCH WF - FLOW PS - PRESSURE LS - LEVEL TS - TAMPER VS - VALVE SUPERVISORY
OL	NON-ADDRESSABLE OUTPUT RELAY
HT	TEMPERATURE SWITCH HT - HIGH TEMPERATURE LT - LOW TEMPERATURE
H F	AUDIO DEVICE (WALL MOUNTED) H - HORN C - CHIME ELECTRONIC M - MINI HORN
W	SPEAKER (WALL MOUNTED) W - WATTAGE
W C	SPEAKER (C - CEILING MOUNTED) W - WATTAGE
CD	STROBE (WALL MOUNTED) CD - CANDELA RATING/SETTING
CD C	STROBE (CEILING MOUNTED) CD - CANDELA RATING/SETTING
CD W	SPEAKER / STROBE (WALL MOUNTED) CD - CANDELA RATING/SETTING W - WATTAGE
CD W C	SPEAKER / STROBE (C - CEILING MOUNTED) CD - CANDELA RATING/SETTING W - WATTAGE
CD	HORN / STROBE (WALL MOUNTED) CD - CANDELA RATING/SETTING
CD C	HORN / STROBE (C - CEILING MOUNTED) CD - CANDELA RATING/SETTING
	ROTATED BEACON
RTS	REMOTE ALARM INDICATING AND TEST SWITCH
V F	BELL (WALL MOUNTED) V - VIBRATING G - GONG SS - SINGLE STROKE T - TROUBLE C - CHIME
DH	DOOR HOLDER
FACP	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM ANNUNCIATOR
ASPP	AIR SAMPLING CONTROL DETECTOR PANEL
ESR	ELEVATOR STATUS/RECALL
FAC	FIRE ALARM COMMUNICATOR
HVAC	HVAC CONTROL PANEL
EVAC	VOICE EVACUATION PANEL
FATC	FIRE ALARM TERMINAL CABINET
# TPR	FIRE ALARM TRANSPONDER # - TRANSPONDER NUMBER
DGP	DATA GATHERING PANEL
FCS	FIRE COMMAND SYSTEM
SAP	SPRINKLER ALARM PANEL
RP	RELAY ALARM PANEL
PP	PURGE PANEL
FACU	FIRE ALARM CONTROL UNIT
BATT	BATTERY PACK AND CHARGER
AMP	AMPLIFIER RACK
HL FSCP	FIRE SYSTEM CONTROL PANEL HL - HALON FO - FOAM DC - DRY CHEMICAL WM - WATER MIST WC - WET CHEMICAL CA - CLEAN AGENT DL - DELUGE SPRINKLER CO2 - CARBON DIOXIDE

ABBREVIATIONS

SYMBOL	DESCRIPTION
A, AMP	AMPERE
AIC	AMPS INTERRUPTING CAPACITY
AC	ALTERNATING CURRENT
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
ATC	AUTOMATIC TEMPERATURE CONTROL
ATS	AUTOMATIC TRANSFER SWITCH
BAS	BUILDING AUTOMATION SYSTEM
BMS	BUILDING MANAGEMENT SYSTEM
BFG	BELOW FINISHED GRADE
C, CDT	CONDUIT
CB	CIRCUIT BREAKER
CH	CABINET HEIGHT
CKT	CIRCUIT
C.O., CO	CONDUIT ONLY
CONFIG.	CONFIGURATION
℄	CENTERLINE
CONV	CONVENIENCE
CM	CONSTRUCTION MANAGER
DDC	DIGITAL DATA CONTROL
DWG	DRAWING
E.C.	ELECTRICAL CONTRACTOR
ELEC	ELECTRICAL
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
E.O.	ELECTRICALLY OPERATED 'ON-OFF'
EQ	EQUAL
EWC	ELECTRIC WATER COOLER
FA	FIRE ALARM
FAI	FURNISH AND INSTALL
FBO	FURNISHED BY OTHERS
FS	FIRE SHUTTER/DOOR
FLA	FULL LOAD AMPS
FSD	FIRE SMOKE DAMPER
G, GND	GROUND
GEN	GENERATOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
HC	HUNG CEILING
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HORSE POWER
IBEC	INSTALLED BY ELECTRICAL CONTRACTOR
IG	ISOLATED GROUND
JB,J	JUNCTION BOX
KVA	KILO VOLT- AMPERE
KW	KILO WATT
KWH	KILO WATT HOUR
LC	LOCK & COVER
LCP	LIGHTING CONTROL PANEL
LTG	LIGHTING
LV	LOW VOLTAGE
LVR	LOW VOLTAGE RELAY
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CONTROL PANEL
MER	MECHANICAL EQUIPMENT ROOM
MFRR	MANUFACTURER
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
N	NEUTRAL
NA, N/A	NOT APPLICABLE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
#	NUMBER
N.O.	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
P	POLES
PB	PULL BOX
PFC	POWER FACTOR CORRECTION
PH, ø	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE
PWR	POWER
RC	REHEAT COIL
RECPT, REC	RECEPTACLE
RM	ROOM
SG	SIGNAGE
SHT	SHEET
SPEC	SPECIFICATIONS
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
SS	SURGE SUPPRESSION
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TC	TIME CLOCK
TYP	TYPICAL
UG	UNDERGROUND
UON, U.O.N.	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UNF	UNFUSED
V	VOLT
VA	VOLT-AMPERES
VPI	VACUUM PRESSURE IMPREGNATION
VT	VAPOR TIGHT
W	WATT
WP	WEATHER PROOF
XFMR	TRANSFORMER
XP	EXPLOSION PROOF

ELECTRICAL DRAWING LIST - 5 LOWER PASEO

DRG NO.	DRAWING TITLE	SCALE
E0.00	ELECTRICAL - AREA 5 - SYMBOLS, ABBREVIATIONS & SHEET LIST	NTS
E0.01	ELECTRICAL - AREA 5 - GENERAL NOTES	NTS
E0.11	ELECTRICAL - AREA 5 - SCHEDULES	NTS
E1.00	ELECTRICAL - AREA 5 - ORIENTATION PLAN	1/16" = 1'-0"
E1.01	ELECTRICAL - AREA 5 - DEMOLITION PLAN - LOWER PASEO	1" = 10'-0"
E1.11	ELECTRICAL - AREA 5 - ELECTRICAL PLAN - LOWER PASEO	1" = 10'-0"
E5.01	ELECTRICAL - AREA 5 - DIAGRAMS, PART PLANS	AS NOTED
E5.02	ELECTRICAL - AREA 5 - TICKETING CENTER	AS NOTED
E5.03	ELECTRICAL - AREA 5 - TICKETING CENTER	1/4" = 1'-0"

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

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300 Alamo Plaza, Suite 200
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Tel 210.225.1391

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Tel 713.783.2787

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Datum Engineers, Inc.
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San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

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Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

PARRA & Co
Civil Engineer
Parra & Co
110 E. Houston Street, Floor 7
San Antonio, TX 78205
Tel 210.819.4848

DATACOM DESIGN GROUP
AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

Seal / Signature

△ Date	Description
08/17/2023	100% SCHEMATIC DESIGN
10/26/2023	100% DESIGN DEVELOPMENT
06/06/2024	50% CONSTRUCTION DOCUMENTS

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ISSUED DATE: 06/06/2024
ENGINEER / DESIGNER: BRIAN MEHRJOU
ENGINEER LICENSE NUMBER: 125235 (TEXAS)

Project Name
ALAMO SITE - AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
ELECTRICAL - AREA 5 - SYMBOLS, ABBREVIATIONS & SHEET LIST

Scale
NTS

E0.00

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GENERAL NOTES

1. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE (NEC) WITH THE CITY OF SAN ANTONIO AMENDMENTS AND APPLICABLE LOCAL CODES AND REGULATIONS.
2. ALL PANELS, SWITCHES, AND WIRING TROUGHS SHALL HAVE SUFFICIENT GUTTER SPACE AND LUGS TO ACCOMMODATE CONDUCTORS SHOWN.
3. WHERE WIRE SIZES ARE INDICATED ON PLANS, FOR INDIVIDUAL CIRCUITS, THE WIRE SIZE INDICATED SHALL APPLY TO THE COMPLETE CIRCUIT, UNLESS OTHERWISE NOTED.
4. ALL JUNCTION BOXES , HANDHOLES AND PULL BOXES SHALL BE CODE GAUGE AND SIZE TO ACCOMMODATE NUMBER OF CONDUITS/CONDUCTORS SHOWN.
5. ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL MECHANICAL, PLUMBING AND OTHER EQUIPMENT REQUIRING ELECTRICAL POWER, PRIOR TO PERFORMANCE OF ANY WORK.
6. ALL PANELBOARD SHALL HAVE LOCKING DOORS AND BE KEYED UNLESS OTHERWISE NOTED.
7. ALL MOUNTING HEIGHTS AND EXACT LOCATIONS FOR DEVICES SHALL BE AS PER LANDSCAPE ARCHITECTURAL DOCUMENTS.
8. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. FOLLOW DRAWINGS IN LAYING OUT WORK AND CHECK DRAWINGS OF OTHER TRADES TO VERIFY SPACE IN WHICH WORK WILL BE INSTALLED.
9. FURNISH FISH WIRE IN EACH RACEWAY RUN OVER 10' IN LENGTH, IN WHICH PERMANENT WIRING IS NOT INSTALLED. SEAL ENDS OF CONDUITS AS REQUIRED PER NEC.
10. PROVIDE PULL BOXES WHEREVER NECESSARY TO FACILITATE PULLING OF CONDUCTORS. COORDINATE LOCATIONS OF BOXES WITH OTHER TRADES TO AVOID CONFLICT. CONTRACTOR TO PROVIDE COORDINATION SHOP DRAWINGS INDICATING ALL PULL BOX AND HANDHOLE LOCATIONS AND PROPOSED CONDUIT ROUTING FOR LANDSCAPE ARCHITECT APPROVAL PRIOR TO ANY INSTALLATIONS.
11. ALL EXTERIOR ELECTRICAL DEVICES AND EQUIPMENT SHALL BE WEATHERPROOF TYPE.
12. ALL FEEDER AND BRANCH CIRCUIT CONDUIT CROSSING UNDER THE PAVED PATHWAYS AND ROADWAYS TO BE ENCASED IN A MINIMUM OF 2" REINFORCED CONCRETE.
13. ALL LIGHTING POLES AND TREE RECEPTACLES FOR LIGHTING TO BE ASTRONOMICAL TIMECLOCK CONTROLLED PER IECC 2018 C405.2.6. COORDINATE TIMECLOCK SETTINGS WITH THE OWNER.

LIGHTING NOTES

1. FOR EXACT LOCATION OF ALL SITE LIGHTING FIXTURES REFER TO THE LANDSCAPE ARCHITECTS DRAWINGS.
2. A GROUND ROD SHALL BE PLACED AND BONDED FOR EACH LIGHTING POLE.
3. REFER TO SPECIFICATION 265600 - SITE LIGHTING FOR ELECTRICAL REQUIREMENTS OF ALL LIGHTING FIXTURES.
4. CIRCUITING IS INDICATED BY CIRCUIT NUMBER ONLY. RUNS OF CONDUIT AND WIRE ARE NOT SHOWN. HOWEVER, PROVIDE ALL CONDUIT AND WIRE, BOXES, FIXTURE WHIPS, AND COVER PLATES REQUIRED TO IMPLEMENT THE CIRCUITING AS INDICATED.
5. CIRCUIT NUMBERS ARE FOR REFERENCE ONLY. FIELD CONDITIONS PREVAIL.
6. LIGHTING CONTROLS SYSTEMS SHALL BE FUNCTIONALLY TESTED BY A QUALIFIED PERSON AND A REPORT SHALL BE SUBMITTED DEMONSTRATING COMPLIANCE WITH IECC 2018 C408.3 TO THE INSPECTOR OF RECORD. REFER TO SPECIFICATION SECTION 26 09 43 FOR ADDITIONAL INFORMATION. REFER TO E0.11 FOR LIGHTING CONTROLS NARRATIVE.

POWER NOTES

1. CIRCUITING IS INDICATED BY NUMBER ADJACENT TO EACH RECEPTACLE. CONTRACTOR SHALL PROVIDE ALL CONDUIT, WIRE, BOXES REQUIRED FOR A COMPLETE INSTALLATION.
2. USE FLEXIBLE CONDUIT FOR FINAL CONNECTIONS TO MOTORS, VIBRATING EQUIPMENT OR WHERE REQUIRED FOR EQUIPMENT SERVICING.
3. ALL FEEDERS SHALL BE INDIVIDUAL CONDUCTORS IN RACEWAYS. WIRING FOR BRANCH CIRCUITS AND MOTORS TO BE SIZED PER NEC REQUIREMENTS. ALL POWER WIRING SHALL BE 600V COPPER CONDUCTORS. MINIMUM WIRE SIZE SHALL BE #10 AWG THWN-2 TYPE CONDUCTORS.
4. ALL UNDERGROUND CONDUITS SHALL BE PVC COATED RMC. MINIMUM CONDUIT COVER SHALL BE PER NEC 300.5.. CONTRACTOR TO COORDINATE CONDUIT AND DUCTBANK REQUIREMENTS WITH CIVIL DRAWINGS AND CPS REQUIREMENTS.
5. VERIFY THE CONNECTION REQUIREMENT OF ALL EQUIPMENT WITH SUPPLIER AND PROVIDE JUNCTION BOX OR RECEPTACLES, AND MAKE ALL CONNECTIONS AS REQUIRED.
6. ALL FINAL LOCATIONS OF ELECTRICAL DEVICES TO BE COORDINATED WITH LANDSCAPE ARCHITECTURAL PLANS AT TIME OF CONSTRUCTION.
7. CONTRACTOR TO CALCULATE VOLTAGE DROP FOR ALL BRANCH CIRCUIT CONNECTIONS TO VERIFY CONDUCTOR AND CONDUIT SIZES ARE ADEQUATE PRIOR TO INSTALLATION. VOLTAGE DROP IN EACH POWER FEEDER SHALL BE NO MORE THAN 2%, A MAXIMUM VOLTAGE DROP IN EACH BRANCH SHALL BE NO MORE THAN 3% AND A TOTAL VOLTAGE DROP FROM THE SOURCE TO THE END DEVICE SHALL BE NO MORE THAN 5%.
8. ALL ELECTRICAL EQUIPMENT LOCATED IN NON-CONDITIONED SPACE SHALL HAVE A NEMA-3R ENCLOSURE.
9. ALL RECEPTACLES AND ELECTRICAL DEVICES IN SPACES WITH PUBLIC ACCESS SHALL BE INSTALLED WITH A WATERPROOF AND LOCKABLE ENCLOSURE.
10. MINIMUM WIRE SIZE SHALL BE #12 AWG.

DEMOLITION NOTES:

1. PLAN DEMOLITION OF WORK TO ENSURE MINIMUM INTERFERENCE WITH THE OPERATION OF THE SITE. COORDINATE POWER SHUTDOWNS OR INTERFERENCE WITH THE ACTIVE AREAS WITH CPS. NOTIFICATION OF THE CITY OF SAN ANTONIO, ATI AND CPS IN WRITING IS REQUIRED PRIOR TO APPROVAL OF ANY SHUTDOWNS. POWER SHUTDOWNS OR INTERFERENCE WITHOUT CITY OF SAN ANTONIO, ATI AND CPS PERMISSION IS UNACCEPTABLE.
2. CONTRACTOR SHALL EXAMINE EXISTING CONDITIONS AND SHALL PERFORM ALL REQUIRED DEMOLITION AND RELOCATION WORK AS WELL AS PROVISION OF ALL NEW ELECTRICAL EQUIPMENT, WIRING, ETC. AS REQUIRED FOR FULLY FUNCTIONAL SYSTEM.
3. ALL CIRCUITS AFFECTED BY THE DEMOLITION WORK SHALL BE DE-ENERGIZED AT THEIR SOURCE PRIOR TO BEGINNING ANY DEMOLITION WORK ON SITE.
4. THE REMOVAL OF LIGHTING POLES SHALL INCLUDE THE REMOVAL OF ALL ASSOCIATED BRANCH CIRCUIT WIRING, RACEWAYS, BOXES AND SUPPORTS UNLESS OTHERWISE NOTED. DUE TO LIMITED DEPTH OF EXCAVATION FOR INTERIM PHASE IT IS ACCEPTABLE TO ABANDON IN PLACE EMPTY UNDERGROUND CONDUIT AFTER WIRING IS REMOVED. ABANDONED CONDUIT TO BE REMOVED IN FUTURE PHASES.
5. CONTRACTOR SHALL INCLUDE ALL COSTS FOR REMOVALS. THESE COSTS SHALL INCLUDE WORK DESCRIBED IN THE CONTRACT DOCUMENTS WITH ALLOWANCES FOR NORMAL UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPEN.
6. ALL ELECTRICAL WORK IN ADJOINING AREAS WHICH IS REQUIRED TO FUNCTION BUT IS AFFECTED BY DEMOLITION AND/OR PHASING WORK SHALL BE RECONNECTED AND RESTORED TO ITS PRESENT FUNCTION.
7. ALL PRESENT MATERIAL AND EQUIPMENT IN USABLE CONDITION, WHICH IS TO BE REMOVED UNDER THIS CONTRACT, REMAIN THE PROPERTY OF THE OWNER AND/OR SHALL BE DISPOSED OF BY THE CONTRACTOR AS DIRECTED.
8. PORTIONS OF FEEDER LINES THAT HAVE BEEN REMOVED AND ABANDONED AS A RESULT OF DEMOLITION WORK BUT ARE REQUIRED TO CONTINUE TO FUNCTION, SHALL BE CUT AT CONVENIENT LOCATIONS, REROUTED AND RECONNECTED FOR CONTINUATION OF THEIR PRESENT FUNCTION. NEW FEEDER EXTENSIONS SHALL MATCH EXISTING ONES IN ALL RESPECT (CONDUCTOR CAPACITY, CONDUIT SIZE, ETC.). CONDUIT TYPE INSTALLED IN INTERIM PHASE SHALL BE PVC COATED RMC.
9. COORDINATE THE EXTENT OF DEMOLITION WORK WITH CIVIL ENGINEER AND CONSTRUCTION MANAGER.

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

Owner's Rep
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

Landscape Architect
OJB
711 Louisiana Street,
Suite 111
Houston, TX 77002
Tel 713.529.9919

MEP, Lighting, Security, and Acoustics Consultant
Arup - Texas Firm Reg. #1990
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.783.2787

Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

Civil Engineer
Parra & Co
110 E. Houston Street, Floor 7
San Antonio, TX 78205
Tel 210.819.4848

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

Seal / Signature

△	Date	Description
	08/17/2023	100% SCHEMATIC DESIGN
	10/26/2023	100% DESIGN DEVELOPMENT
	06/06/2024	50% CONSTRUCTION DOCUMENTS

PRELIMINARY
THESE DOCUMENTS ARE INCOMPLETE AND FOR INTERIM REVIEW ONLY. THEY ARE NOT INTENDED FOR REGULATORY APPROVAL, PERMIT OR CONSTRUCTION.
ISSUED DATE: 06/06/2024
ENGINEER / DESIGNER: BRIAN MEHRJOU
ENGINEER LICENSE NUMBER: 125235 (TEXAS)

Project Name
ALAMO SITE - AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
ELECTRICAL - AREA 5 - GENERAL NOTES

Scale
NTS

E0.01

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LIGHTING FIXTURE SCHEDULE - AREA 5

ITEM TYPE	MANUFACTURER	MODEL	DESCRIPTION	VOLTAGE	LAMPS	LOAD	NOTES	CONTROLS	Count
AD06-GR.5	WE-EF	134-1598 - M - FULL SPECTRUM GROW LTG - BLK	DAC240-GB SERIES ADJUSTABLE DOWNLIGHT, MEDIUM OPTICS, FULL SPECTRUM GROW LIGHTING LED BOARD	120 V	LED	21 VA	UL-WET RATED	0-10V DIMMING: INTEGRAL CASAMBI MODULE	4
AD06.5	WE-EF	134-1598 - M - 3000K - BLK; WITH INTEGRAL CASAMBI BLUETOOTH ANTENNA	DAC240-GB SERIES ADJUSTABLE DOWNLIGHT, MEDIUM OPTICS	120 V	LED	21 VA	UL-WET RATED	ON/OFF: CONNECTED TO CASAMBI 16A 0-10V RELAY ON/OFF MODULE	34
AH01.5	WAGNER	LULF - 30K - 94 SYYMETRIC - 5 - 0-10V DIM; WITH LUDRIVERDM100WACE IN LUENCLOSURE4XP	LUMENPOD 16 SERIES SYMMETRIC HANDRAIL LIGHT	120 V	LED	2 VA	UL-WET RATED, 100W 0-10V POWER SUPPLY WITH NEMA 4X POLYCARBONATE ENCLOSURE, POKE-HOME J-BOX & THRU-WIRES AS REQUIRED	0-10V DIMMING: CONNECTED TO CASAMBI CBU-ARP 0-10V MODULE, LOCATED WITHIN LUENCLOSURE 4XP	12
AH02.5	WAGNER	LULF - 30K - 70 @ 25 ABOVE NADIR ASYMMETRIC - 5 - 0-10V DIM; WITH LUDRIVERDM100WACE IN LUENCLOSURE4XP	LUMENPOD 16 SERIES ASYMMETRIC HANDRAIL LIGHT	120 V	LED	2 VA	UL-WET RATED, 100W 0-10V POWER SUPPLY WITH NEMA 4X POLYCARBONATE ENCLOSURE, POKE-HOME J-BOX & THRU-WIRES AS REQUIRED	0-10V DIMMING: CONNECTED TO CASAMBI CBU-ARP 0-10V MODULE, LOCATED WITHIN LUENCLOSURE 4XP	122
AT01-G.5	ERCO	33409.099 - 3000K - WIDE FLOOD; WITH CUSTOM ERCO 7" MOUNTING BRACKET 33296.099	TESIS SERIES IN-GROUND TREE UPLIGHT, WIDE FLOOD OPTICS	120 V	LED	6 VA	UL-WET RATED, TAMPER-RESISTANT, IMPACT-RESISTANT	ELV DIMMING: CONNECTED TO CASAMBI 16A 0-10V RELAY MODULE	6
AT01.5	ERCO	33409.099 - 3000K - WIDE FLOOD; WITH RECESSED HOUSING 10.33298.099	TESIS SERIES IN-GROUND TREE UPLIGHT, WIDE FLOOD OPTICS	120 V	LED	6 VA	UL-WET RATED, TAMPER-RESISTANT, IMPACT-RESISTANT	ELV DIMMING: CONNECTED TO CASAMBI 16A 0-10V RELAY MODULE	8
AT03.5	BK LIGHTING	MN - LED - E68 - FL - CUSTOM BRONZE FIN. - 12 - 11 - 45 - TE; WITH CUSTOM POWER PIPE C1512-87 WITH INTEGRAL CASAMBI MODULE	MICRO NITE STAR SERIES, 30 DEG FLOOD OPTICS	120 V	LED	7 VA	UL-WET RATED, TAMPER-RESISTANT, CUSTOM POWER PIPE FOR CASAMBI INTEGRATION, WITH TOP SNOOT	ELV DIMMING: INTEGRAL CASAMBI MODULE	34
AU01.5	ERCO	35079.099 - CUSTOM 2700K - ADJUSTBALE FLOOD - CUSTOM ANODIZED BRONZE TRIM FINISH; WITH RECESSED HOUSING 33299.099 AND CUSTOM 5" HOUSING TOP	TESIS SERIES IN-GROUND STATUE UPLIGHT, ADJUSTABLE FLOOD OPTICS	120 V	LED	6 VA	UL-WET RATED, TAMPER-RESISTANT, IMPACT-RESISTANT	ELV DIMMING: CONNECTED TO CASAMBI 16A 0-10V RELAY MODULE	2
AU06.5	BK LIGHTING	MN - LED - E68 - SP - A; CUSTOM BRONZE RAL 8019 FIN; CUSTOM POWER PIPE CUS-C1512-87 WITH INTEGRAL CASAMBI MODULE; WITH (2)WEEP HOLES IN TOP SNOOT	MICRO NITE STAR SERIES UPLIGHT, 17DEG OPTICS	120 V	LED	7 VA	UL-WET RATED, TAMPER-RESISTANT, CUSTOM POWER PIPE FOR CASAMBI INTEGRATION	ELV DIMMING: INTEGRAL CASAMBI MODULE	4
AU07.5	BK LIGHTING	HU - LED - TR - X110 - NSP - 13 - B; CUSTOM BRONZE RAL 8019 FIN; CUSTOM POWER PIPE CUS-1512-92 WITH INTEGRAL CASAMBI BLUETOOTH ANTENNA	HUME SERIES TREE UPLIGHT, 11DEG FLOOD OPTICS	120 V	LED	36 VA	UL-WET RATED, TAMPER-RESISTANT, CUSTOM POWER PIPE FOR CASAMBI INTEGRATION	ELV DIMMING: INTEGRAL CASAMBI MODULE	12

LIGHTING FIXTURE SCHEDULE - AREA 5 ADD ALTERNATE

ITEM TYPE	MANUFACTURER	MODEL	DESCRIPTION	VOLTAGE	LAMPS	LOAD	NOTES	CONTROLS	Count
AS01-5.5	LED LINEAR	VARIOLED FLEX - VENUS IQ WHITE - 825 - VARIOUS LENGTHS "X" PER FIELD CONDITIONS; WITH D-REM-096W-DIM-UNV-IP65	5FT VARIOLED FLEX TV SERIES FLEXIBLE LIGHT	120 V	LED	10 VA	UL-WET RATED, 96W IP65 0-10V POWER SUPPLY WITH NEMA 4X POLYCARBONATE ENCLOSURE, VENUS TV MOUNTING PROFILE WITH CABLE RUNWAY	0-10V DIMMING: CONNECTED TO CASAMBI CBU-PMW4 MODULE, LOCATED WITHIN NEMA 4X POLYCARBONATE ENCLOSURE WITH POWER SUPPLY	3
AS01-6.5	LED LINEAR	VARIOLED FLEX - VENUS IQ WHITE - 825 - VARIOUS LENGTHS "X" PER FIELD CONDITIONS; WITH D-REM-096W-DIM-UNV-IP65	6FT VARIOLED FLEX TV SERIES FLEXIBLE LIGHT	120 V	LED	12 VA	UL-WET RATED, 96W IP65 0-10V POWER SUPPLY WITH NEMA 4X POLYCARBONATE ENCLOSURE, VENUS TV MOUNTING PROFILE WITH CABLE RUNWAY	0-10V DIMMING: CONNECTED TO CASAMBI CBU-PMW4 MODULE, LOCATED WITHIN NEMA 4X POLYCARBONATE ENCLOSURE WITH POWER SUPPLY	1
AS01-7.5	LED LINEAR	VARIOLED FLEX - VENUS IQ WHITE - 825 - VARIOUS LENGTHS "X" PER FIELD CONDITIONS; WITH D-REM-096W-DIM-UNV-IP65	7FT VARIOLED FLEX TV SERIES FLEXIBLE LIGHT	120 V	LED	14 VA	UL-WET RATED, 96W IP65 0-10V POWER SUPPLY WITH NEMA 4X POLYCARBONATE ENCLOSURE, VENUS TV MOUNTING PROFILE WITH CABLE RUNWAY	0-10V DIMMING: CONNECTED TO CASAMBI CBU-PMW4 MODULE, LOCATED WITHIN NEMA 4X POLYCARBONATE ENCLOSURE WITH POWER SUPPLY	5

LIGHTING FIXTURE SCHEDULE - TICKETING CENTER

ITEM TYPE	MANUFACTURER	MODEL	DESCRIPTION	VOLTAGE	LAMPS	LOAD	NOTES	Comments	Count
AC01-5.T	SIGNIFY LEDALITE	TRUGROOVE PERIMETER 49 - 0 - 8 - L - 930 - 15 - Q - S - 5FT - D - E - 1 - N - C - C	TRUGROOVE PERIMTER SERIES 5FT CONTINUIOUS LED COVE LIGHT	120 V	LED	17 VA		0-10V DIMMING: CONNECTED TO CASAMBI 16A 0-10V RELAY MODULE	2
AC01-15.T	SIGNIFY LEDALITE	49 - 0 - 8 - L - 930 - 15 - Q - S - 14.5FT - D - E - 1 - N - C - C - 4	TRUGROOVE PERIMTER SERIES 15FT CONTINUIOUS LED COVE LIGHT	120 V	LED	50 VA		0-10V DIMMING: CONNECTED TO CASAMBI 16A 0-10V RELAY MODULE	4
AD03.T	SIGNIFY LIGHTOLIER	P4R - DL - 2500 - 930 - M - CD - Z10 - U - IEM6 (FOR EM TYPES ONLY)	LYTEPROFILE SERIES 4IN RECESSED LED DOWNLIGHT	120 V	LED	21 VA		0-10V DIMMING: CONNECTED TO CASAMBI 16A 0-10V RELAY MODULE	28
AD04.T	SIGNIFY LIGHTOLIER	P4R - WW - 2500 - 930 - W - CD - Z10 - U	LYTEPROFILE SERIES 4IN RECESSED LED WALL WASHER	120 V	LED	21 VA		0-10V DIMMING: CONNECTED TO CASAMBI 16A 0-10V RELAY MODULE	3
AD05.T	SIGNIFY LEDALITE	42 - 22 - D1 - ST - L - 930 - 40 - A - 1/8 (FOR EM TYPES ONLY) - D - E - N	SILKSPACE SERIES 2X2 RECESSED LED TROFFER	120 V	LED	35 VA		0-10V DIMMING: CONNECTED TO CASAMBI 16A 0-10V RELAY MODULE	8
AL01.T	SIGNIFY DAY-BRITE CFI	FSWEZ - 4 - 40L - 830 - UNV - EMLED (FOR EM TYPES ONLY)	FLUXSTREAM EZ SERIES 4FT BOH DAMP RATED LINEAR LED STRIP LIGHT	120 V	LED	32 VA		0-10V DIMMING: CONNECTED TO CASAMBI 16A 0-10V RELAY MODULE	11
AL02-4.T	LED LINEAR	HYDRA-HD10-W9-30K-4FT; WITH 96W LED LINEAR 0-10V REMOTE DRIVER	ADONIS IP67 SERIES RECESSED LED LINEAR	120 V	LED	8 VA	WITH SURFACE CLIP INTENDED FOR RECESSED APPLICATION INTO SLAT CEILING, WITH CABLES AND CONNECTORS AS REQUIRED	0-10V DIMMING: CONNECTED TO CASAMBI 16A 0-10V RELAY MODULE	4
AL02-6.T	LED LINEAR	HYDRA-HD10-W9-30K-6FT; WITH 96W LED LINEAR 0-10V REMOTE DRIVER	ADONIS IP67 SERIES RECESSED LED LINEAR	120 V	LED	12 VA	WITH SURFACE CLIP INTENDED FOR RECESSED APPLICATION INTO SLAT CEILING, WITH CABLES AND CONNECTORS AS REQUIRED. WITH ADDITIONAL IOTA SERIES ILBLP CP30 HE SD HV 90-MIN BATTERY BACK UP (FOR EM TYPES ONLY)	0-10V DIMMING: CONNECTED TO CASAMBI 16A 0-10V RELAY MODULE	4
AL02-7.T	LED LINEAR	HYDRA-HD10-W9-30K-7.5FT; WITH 96W LED LINEAR 0-10V REMOTE DRIVER	ADONIS IP67 SERIES RECESSED LED LINEAR	120 V	LED	15 VA	WITH SURFACE CLIP INTENDED FOR RECESSED APPLICATION INTO SLAT CEILING, WITH CABLES AND CONNECTORS AS REQUIRED	0-10V DIMMING: CONNECTED TO CASAMBI 16A 0-10V RELAY MODULE	2
AL02-45.T	LED LINEAR	HYDRA-HD10-W9-30K-45FT; WITH 96W LED LINEAR 0-10V REMOTE DRIVER	ADONIS IP67 SERIES RECESSED LED LINEAR	120 V	LED	90 VA	WITH SURFACE CLIP INTENDED FOR RECESSED APPLICATION INTO SLAT CEILING, WITH CABLES AND CONNECTORS AS REQUIRED, WITH ADDITIONAL IOTA SERIES ILBLP CP30 HE SD HV 90-MIN BATTERY BACK UP (FOR EM TYPES ONLY)	0-10V DIMMING: CONNECTED TO CASAMBI 16A 0-10V RELAY MODULE	2
X1.T	SIGNIFY CHLORIDE	ER45VXL - SC - 1 - GM - ARROWS AS INDICATED ON DRAWINGS	45V SERIES EDGE-LIT SINGLE SIDED EXIT SIGN - CEILING MOUNTED	120 V	LED	4 VA		N.A.	3
X2.T	SIGNIFY CHLORIDE	ER45VXL - SC - 2 - GM - ARROWS AS INDICATED ON DRAWINGS	45V SERIES EDGE-LIT DUAL SIDED EXIT SIGN - CEILING MOUNTED	120 V	LED	4 VA		N.A.	1
X3.T	SIGNIFY CHLORIDE	ER45VXL - SW - 1 - GM - ARROWS AS INDICATED ON DRAWINGS	45V SERIES EDGE-LIT SINGLE SIDED EXIT SIGN - WALL MOUNTED	120 V	LED	4 VA		N.A.	3

NOTES:
1. REFER TO SPECIFICATION SECTIONS 265600 & 260943 FOR ADDITIONAL INFORMATION ON LIGHTING FIXTURES AND LIGHTING CONTROLS, RESPECTIVELY.
2. REFER TO LANDSCAPE AND ARCHITECTURAL DRAWINGS, SECTIONS, AND DETAILS FOR EXACT FIXTURE LOCATIONS AND MOUNTING.
3. QUANTITIES OF LUMINAIRES DO NOT DEFINE DRIVER BREAKDOWNS, ESPECIALLY WITH LINEAR FIXTURES.
4. QUANTITIES OF LUMINAIRES DO NOT INCLUDE ANY SPARE COMPONENTS OR SECONDARY STOCK WHICH MAY BE NEEDED FOR COMPLETE INSTALLATION.
5. QUANTITIES DO NOT INCLUDE ANY LUMINAIRES REQUIRED FOR MOCKUP PURPOSES.
6. IT IS THE RESPONSIBILITY OF CONTRACTOR TO VERIFY FINAL QUANTITY OF FIXTURES, DRIVERS, AND ALL ACCESSORIES NEEDED FOR COMPLETE INSTALLATION.

COPPER FEEDER SCHEDULE

TAG	MAXIMUM CONDUCTOR AMPACITY (A)	NUMBER OF SETS	MINIMUM CONDUCTOR SIZE (AWG/KCMIL)	MINIMUM GROUND SIZE	MINIMUM CONDUIT SIZE (INCLUDES 1 GND)		
					2W	3W	4W
20	20	1	#12	#12	3/4"	3/4"	3/4"
30	30	1	#10	#10	3/4"	3/4"	3/4"
40	40	1	#8	#10	1"	1"	1"
50	55	1	#6	#10	1-1/4"	1-1/4"	1-1/4"
70	70	1	#4	#8	1-1/4"	1-1/4"	1-1/2"
80	85	1	#3	#8	1-1/4"	1-1/2"	1-1/2"
90	95	1	#2	#8	1-1/2"	1-1/2"	1-1/2"
100	110	1	#1	#8	1-1/2"	1-1/2"	2"
125	150	1	#1/0	#6	2"	2"	2"
150	150	1	#1/0	#6	2"	2"	2"
175	175	1	#2/0	#6	2"	2"	2-1/2"
200	200	1	#3/0	#6	2"	2-1/2"	2-1/2"
225	230	1	#4/0	#4	2-1/2"	2-1/2"	2-1/2"
250	285	1	300 kcmil	#4	3"	3-1/2"	4"
300	310	1	350 kcmil	#4	3-1/2"	3-1/2"	4"
350	380	1	500 kcmil	#3	4"	4"	4"
400	420	1	600 kcmil	#3	4"	4"	4"
450	460	2	#4/0	#2	2-1/2"	2-1/2"	2-1/2"
500	510	2	250 kcmil	#2	3"	3"	3-1/2"
600	620	2	350 kcmil	#1	3"	3"	3"
700	760	2	500 kcmil	#1/0	4"	4"	4"
800	840	2	600 kcmil	#1/0	4"	4"	4"
1000	1140	3	500 kcmil	#2/0	4"	4"	4"
1200	1260	3	600 kcmil	#3/0	4"	4"	4"
1600	1680	4	600 kcmil	#4/0	4"	4"	4"
2000	2280	6	500 kcmil	250 kcmil	4"	4"	4"
2500	2520	6	600 kcmil	350 kcmil	4"	4"	4"
3000	3040	8	500 kcmil	400 kcmil	4"	4"	4"
4000	4200	10	600 kcmil	500 kcmil	4"	4"	4"
5000	5040	12	600 kcmil	600 kcmil	4"	4"	4"

GENERAL NOTES:
A. WIRING SHALL BE PROVIDED IN ACCORDANCE WITH THE NEC, UNLESS LARGER SIZES ARE SHOWN TO ACCOMMODATE FUTURE LOADS OR VOLTAGE DROP.
B. GROUND CONDUCTORS ARE REQUIRED IN ALL FEEDER CONDUITS.
C. FEEDERS ARE 4 WIRE (4W) U.O.N.
D. ALL LOW VOLTAGE (600V) WIRES TO BE THHN/THWN UNLESS OTHERWISE INDICATED IN THE DRAWINGS OR SPECIFICATIONS.
F. "2W" INDICATES 2 WIRE FEEDER PLUS EGC.
G. "3W" INDICATES 3 WIRE FEEDER PLUS EGC.
H. "4W" INDICATES 4 WIRE FEEDER PLUS EGC.

LIGHTING CONTROLS NARRATIVE

CASAMBI WIRELESS CONTROL SYSTEM

AREA TYPE	AREA TYPE DIMMING SETTINGS				
	AT SUNSET	1 HR AFTER SUNSET	3 HR AFTER SUNSET	AT MIDNIGHT	AT SUNRISE
PEDESTRIAN PLAZAS	100%	100%	100%	50%	OFF
WALKWAYS >10FT	100%	80%	40%	20%	OFF
WALKWAYS <10FT	100%	80%	40%	20%	OFF
LANDSCAPE/ SOFTSCAPE	100%	100%	80%	40%	OFF
PAVILION	100%	100%	80%	40%	OFF
MONUMENTS/AREAS OF HISTORIC SIGNIFICANCE	100%	100%	100%	100%	OFF
GROW LIGHTING	OFF	OFF	OFF	100%	OFF

NOTES:
1. REFER TO LIGHT FIXTURE SCHEDULE "CONTROLS" COLUMN AND LIGHTING CONTROLS SPECIFICATION 260943 FOR ADDITIONAL INFORMATION.
2. CONTRACTOR SHALL COORDINATE WITH LIGHTING CONTROLS MANUFACTURER BASED ON LIGHT FIXTURE DIMMING REQUIREMENTS, AND PROVIDE ALL ACCESSORIES AND WIRING AS REQUIRED TO ACHIEVE A FULLY FUNCTIONING SYSTEM.
3. PRIOR TO INSTALLATION, CONTRACTOR SHALL PROVIDE FULL LIGHTING CONTROLS PACKAGE INCLUDING, AT A MINIMUM: CUTSHEETS FOR ALL COMPONENTS USED IN THE DESIGN, TYPICAL WIRING DIAGRAMS COVERING ALL SITUATIONS, BILL OF QUANTITIES FOR ALL COMPONENTS, AND PLAN DRAWING INDICATING LOCATIONS OF ALL COMPONENTS.
4. LIGHTING CONTROLS SYSTEM SHALL BE COMMISSIONED BY QUALIFIED PERSON AND A REPORT SHALL BE SUBMITTED TO INSPECTOR OF RECORD.
5. CONTRACTOR SHALL COORDINATE ALL FINAL DEVICE LOCATIONS SUCH THAT ALL DEVICES ARE READILY ACCESSIBLE FOR MAINTENANCE.

LIGHTING CONTROLS NARRATIVE - TICKETING

CASAMBI WIRELESS CONTROL SYSTEM

AREA TYPE	AREA TYPE DIMMING SETTINGS		
	AT SENSOR INITIATION	AFTER 20 MIN NO OCCUPANCY DETECTION	AFTER 1 HOUR NO OCCUPANCY DETECTION
LOBBY	100%	30%	OFF
CORRIDORS	100%	30%	OFF
RESTROOMS	100%	30%	OFF
STORAGE/JANITOR	100%	OFF	OFF
MEP	100%	OFF	OFF

NOTES:
1. REFER TO LIGHT FIXTURE SCHEDULE "CONTROLS" COLUMN AND LIGHTING CONTROLS SPECIFICATION 260943 FOR ADDITIONAL INFORMATION.
2. CONTRACTOR SHALL COORDINATE WITH LIGHTING CONTROLS MANUFACTURER BASED ON LIGHT FIXTURE DIMMING REQUIREMENTS, AND PROVIDE ALL ACCESSORIES AND WIRING AS REQUIRED TO ACHIEVE A FULLY FUNCTIONING SYSTEM.
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4. LIGHTING CONTROLS SYSTEM SHALL BE COMMISSIONED BY QUALIFIED PERSON AND A REPORT SHALL BE SUBMITTED TO INSPECTOR OF RECORD.
5. CONTRACTOR SHALL COORDINATE ALL FINAL DEVICE LOCATIONS SUCH THAT ALL DEVICES ARE READILY ACCESSIBLE FOR MAINTENANCE.

LIGHTING FIXTURE NAMING LEGEND

EXAMPLE	DESCRIPTION
AT01.5(A) / gz01 / T/8 (A / B / C)	A: LIGHT FIXTURE TYPE (A) INDICATES FIXTURE IS ADD-ALTERNATE ONLY B: LIGHTING CONTROL ZONE iz: DENOTES FIXTURE IS INDIVIDUALLY ZONED gz: DENOTES FIXTURE IS GROUP ZONED s: DENOTES FIXTURE IS LOCALLY SWITCHED ONLY C: ELECTRICAL CIRCUIT PANEL/NUMBER

FLOOR BOX SCHEDULE

TAG	BOX TYPE	PART NO.	MANUFACTURER	VOLTAGE	BOX DIMENSION	REMARKS
FB1	DUPLEX + DATA	CUB-WP-151508-20//(2)LV-HINGE-NEW-SS	CUBS	120V	15"X15"	(1) 20A GFCI DUPLEX WR RECEPTACLE + (2) SINGLE GANG REMOVABLE DEVICE PLATES (DEVICE BY OTHERS)
FB2	QUAD	CUB-WP-121208-(2)20-HINGE-NEW-SS	CUBS	120V	12"X12"	(2) 20A GFCI DUPLEX WR RECEPTACLES
FB3	QUAD + DATA	CUB-WP-151508-(2)20/(2)LV-HINGE-NEW-SS	CUBS	120V	15"X15"	(2) 20A GFCI DUPLEX WR RECEPTACLES + (2) SINGLE GANG REMOVABLE DEVICE PLATES (DEVICE BY OTHERS)
FB4	DUPLEX + SPECIAL PURPOSE	CUB-WP-121205.5-L20/20/LV-180SS-NEW BRASS	CUBS	208V + 120V	12"X12"	(1) 20A GFCI DUPLEX WR RECEPTACLE + (1) L14-20R RECEPTACLE + (2) SINGLE GANG REMOVABLE DEVICE PLATES (DEVICE BY OTHERS)
FB5	DUPLEX	CUB-WP-101008-20-HINGE-NEW-SS	CUBS	120V	10"X10"	(1) 20A GFCI DUPLEX WR RECEPTACLE

PANEL: S5M

LOCATION: IT/ ELECTRICAL 008 — **VOLTS:** 120/208 Wye — **A.I.C. RATING:** 22000
SUPPLY FROM: — **PHASE:** 3 — **BUS RATING:** 800 A
MOUNTING: SURFACE — **WIRE:** 4 — **MAIN CB:** 800 A
ENCLOSURE: NEMA 1

CKT	CIRCUIT DESCRIPTION	LC	WIRE SIZE	TRIP	POLES	A	B	C	POLES	TRIP	WIRE SIZE	LC	CIRCUIT DESCRIPTION	CKT
1	PANEL 'ELV'	Motor	4#4/0, 1#4G in 2-1/2"C	225 A	3	5833 VA 0 VA			3	125 A	4#1/0, 1#6G in 2"C	Motor	PUMP ROOM DISC	2
3	--	--	--	--	--		5333 VA 0 VA		--	--	--	--	--	4
5	--	--	--	--	--			5333 VA 0 VA	--	--	--	--	--	6
7	PANEL 'T'	Lighting/...	4#1, 1#8G in 2"C	100 A	3	4094 VA 0 VA			3	100 A		--	Spare	8
9	--	--	--	--	--		4343 VA 0 VA		--	--	--	--	--	10
11	--	--	--	--	--			4130 VA 0 VA	--	--	--	--	--	12
13	Spare	--		20 A	1	0 VA 300 VA			1	20 A		Lighting	STAIR RAIL LTG	14
15	Spare	--		20 A	1		0 VA 441 VA		1	20 A		Lighting	BRIDGE LIGHTING	16
17	Spare	--		20 A	1			0 VA 357 VA	1	20 A		Lighting	BRIDGE LIGHTING	18
19	TREE LTG	Lighting	2#10, 1#10G in 1"C	20 A	1	629 VA 500 VA			1	20 A		Lighting	SIGNAGE LIGHTING	20
21	LINEAR LTG (A)	Lighting	2#10, 1#10G in 1"C	20 A	1		112 VA							22
23	TREE LTG	Lighting	2#10, 1#10G in 1"C	20 A	1			165 VA						24
25	RAILING LTG	Lighting		20 A	1	300 VA								26
27	FLOOR BOX - ENTRY	Power	2#10, 1#10G in 1"C	20 A	1		1000 VA							28
29	SIGNAGE	Lighting	2#10, 1#10G in 1"C	20 A	1			500 VA						30
31	FLOOR BOXES	Power	2#10, 1#10G in 1"C	20 A	1	1000 VA								32
33	18-POUNDER...	Power	2#10, 1#10G in 1"C	20 A	1		500 VA							34
35	Spare	--		20 A	1			0 VA						36
37	Space	--		--	1	--								38
39	Space	--		--	1		--							40
41	Space	--		--	1			--						42
				TOTAL LOAD:		12656 VA	11729 VA	10485 VA						
				TOTAL AMPS:		107 A	99 A	87 A						

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Lighting	5320 VA	125.00%	6650 VA		
Motor	21500 VA	118.60%	25500 VA	TOTAL CONN. LOAD:	34870 VA
Power	8050 VA	100.00%	8050 VA	TOTAL EST. DEMAND:	40200 VA
				TOTAL CONN.:	97 A
				TOTAL EST. DEMAND:	112 A

NOTES:
(A) TAG & PINK TEXT REPRESENT ADD-ALT DESIGN.

PANEL: ELV

LOCATION: IT/ ELECTRICAL 008 — **VOLTS:** 120/208 Wye — **A.I.C. RATING:** 22000
SUPPLY FROM: — **PHASE:** 3 — **BUS RATING:** 225 A
MOUNTING: SURFACE — **WIRE:** 4 — **MAIN CB:** 225 A
ENCLOSURE: NEMA 1

CKT	CIRCUIT DESCRIPTION	LC	TRIP	POLES	A	B	C	POLES	TRIP	LC	CIRCUIT DESCRIPTION	CKT
1	ELEVATOR MOTOR	Motor	60 A	3	5333 VA 500 VA			1	20 A	Motor	ELEVATOR CAB LIGHTS	2
3	--	--	--	--		5333 VA						4
5	--	--	--	--			5333 VA					6
7												8
9												10
11												12
13												14
15												16
17												18
19												20
21												22
23												24
25												26
27												28
29												30
			TOTAL LOAD:		5833 VA	5333 VA	5333 VA					
			TOTAL AMPS:		49 A	44 A	44 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Motor	16500 VA	124.24%	20500 VA		
				TOTAL CONN. LOAD:	16500 VA
				TOTAL EST. DEMAND:	20500 VA
				TOTAL CONN.:	46 A
				TOTAL EST. DEMAND:	57 A

NOTES:

PANEL: T

LOCATION: IT/ ELECTRICAL 008 — **VOLTS:** 120/208 Wye — **A.I.C. RATING:** 22000
SUPPLY FROM: SSM — **PHASE:** 3 — **BUS RATING:** 100 A
MOUNTING: SURFACE — **WIRE:** 4 — **MAIN CB:** 100 A
ENCLOSURE: NEMA 1

CKT	CIRCUIT DESCRIPTION	LC	TRIP	POLES	A	B	C	POLES	TRIP	LC	CIRCUIT DESCRIPTION	CKT
1	DF - VESTIBULE 002	Power	20 A	1	370 VA 1500 VA			3	20 A	Motor	WATER HEATER - JANITOR	2
3	GFCI - RR AND JANITOR	Power	20 A	1		540 VA 1500 VA		--	--	--	--	4
5	TELEVISIONS - LOBBY 009	Power	20 A	1			900 VA 1500 VA	--	--	--	--	6
7	WP RCPT - CPS/ELEV ROOM	Power	20 A	1	360 VA 356 VA			1	20 A	Lighting	LTG - PUMP/ELEC/ELEV...	8
9	GEN RCPT - TICKETING 001	Power	20 A	1		1080 VA 491 VA		1	20 A	Lighting	LTG - TICKETING/WORK RM	10
11	GFCI - PUMP/ELEC ROOM	Power	20 A	1			540 VA 690 VA	1	20 A	Lighting	LTG - RR/JAN/VESTIBULE	12
13	FLOOR BOX - TICKETING	Power	20 A	1	720 VA 288 VA			1	20 A	Lighting	LTG - CANOPY PWR SUPPLY	14
15	ELEV PIT RCPT	Power	20 A	1		180 VA 192 VA		1	20 A	Lighting	EM LTG - CANOPY PWR...	16
17	FACP - TICKETING 001	Power	20 A	1			500 VA					18
19	RCP-1 - JANITOR	Motor	20 A	1	500 VA							20
21	GEN RCPT - WORK AREA	Power	20 A	1		360 VA						22
23	Spare	--	20 A	1			0 VA					24
25	Spare	--	20 A	1	0 VA							26
27	Spare	--	20 A	1		0 VA						28
29	Spare	--	20 A	1			0 VA					30
			TOTAL LOAD:		4094 VA	4343 VA	4130 VA					
			TOTAL AMPS:		34 A	36 A	34 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS	
Lighting	2016 VA	125.00%	2520 VA		
Motor	5000 VA	122.50%	6125 VA	TOTAL CONN. LOAD:	12566 VA
Power	5550 VA	100.00%	5550 VA	TOTAL EST. DEMAND:	14195 VA
				TOTAL CONN.:	35 A
				TOTAL EST. DEMAND:	39 A

NOTES:

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

MGAC
Owner's Rep
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

OJB
Landscape Architect
OJB
711 Louisiana Street, Suite 111
Houston, TX 77002
Tel 713.529.9919

ARUP
MEP, Lighting, Security, and Acoustics Consultant
Arup - Texas Firm Reg. #1990
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.783.2787

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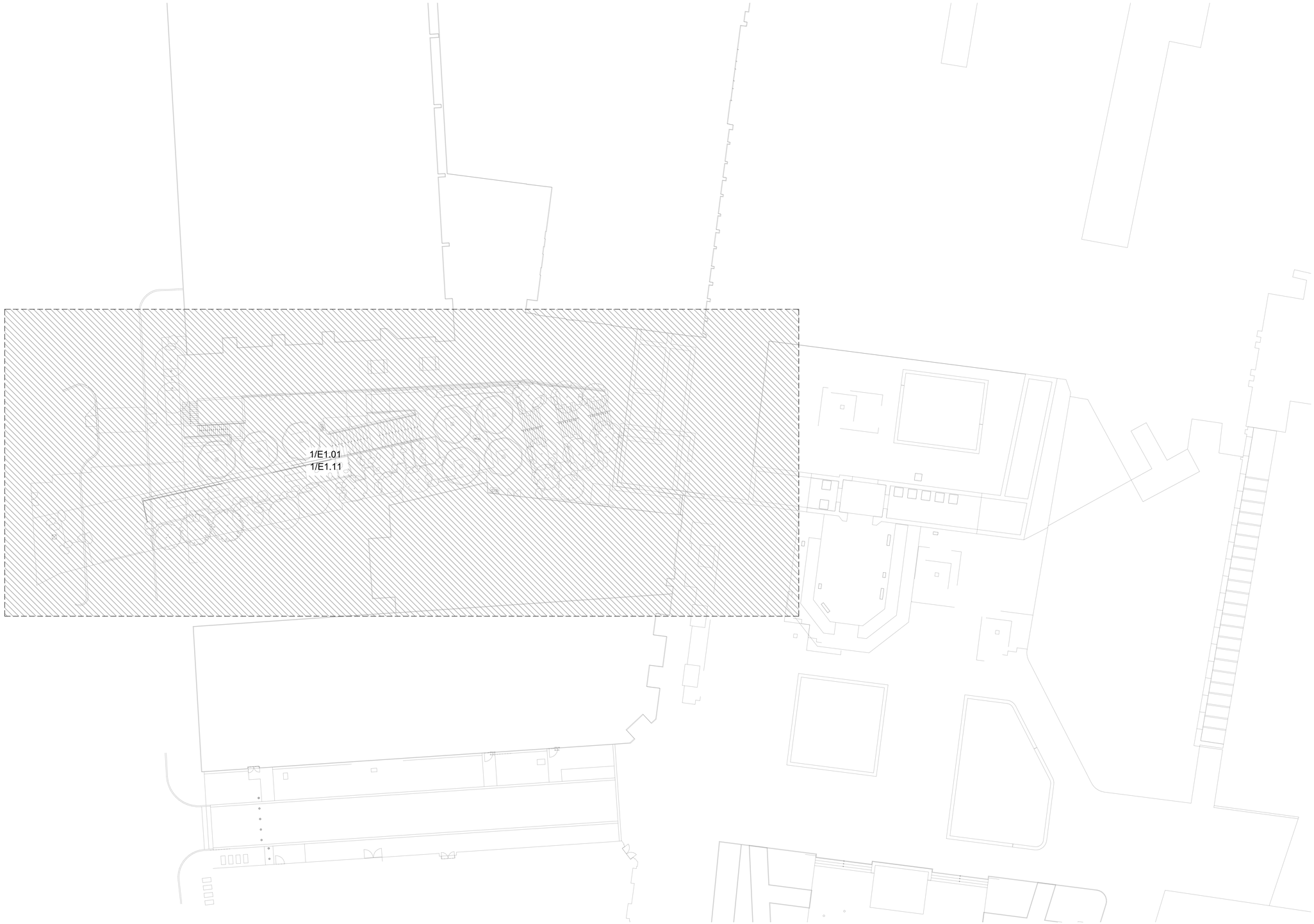

1 5 LOWER PASEO - ELECTRICAL - ORIENETATION PLAN
1/16" = 1'-0"

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
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Suite 200
San Antonio, TX 78205
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1700 Congress Ave.
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10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.783.2787

DATUM ENGINEERS
Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

PAPE-DAWSON ENGINEERS
Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

PARRA&Co
Civil Engineer
Parra & Co
110 E. Houston Street. Floor 7
San Antonio, TX 78205
Tel 210.819.4848

DATACOM DESIGN GROUP
AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

Seal / Signature

△	Date	Description
	08/17/2023	100% SCHEMATIC DESIGN
	10/26/2023	100% DESIGN DEVELOPMENT
	06/06/2024	50% CONSTRUCTION DOCUMENTS

PRELIMINARY
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ISSUED DATE: 06/06/2024
ENGINEER / DESIGNER: BRIAN MEHRJOU
ENGINEER LICENSE NUMBER: 125235 (TEXAS)

Project Name
ALAMO SITE - AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
ELECTRICAL - AREA 5 - ORIENTATION PLAN

Scale
1/16" = 1'-0"

E1.00

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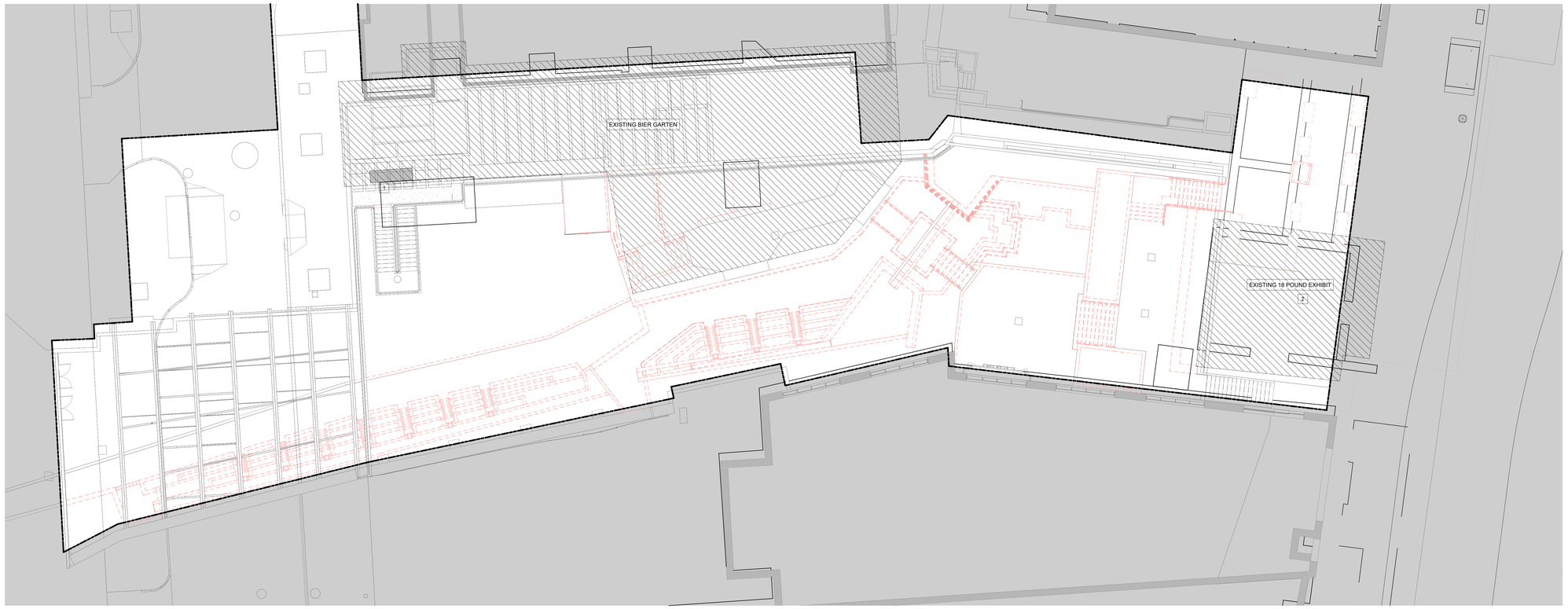

1 5 LOWER PASEO - DEMOLITION PLAN
1" = 10'-0"

GENERAL NOTES

1. REFER TO CIVIL AND ARCHITECTURAL DRAWINGS FOR EXISTING ELECTRICAL INFRASTRUCTURE LOCATIONS AND ADDITIONAL INFORMATION REGARDING SCOPE OF DEMOLITION.
2. CONTRACTOR SHALL COMPLETE SITE INVESTIGATION FOR ALL AREAS AFFECTED BY REMOVAL AND RELOCATION OF EXISTING LIGHTING AND ELECTRICAL DEVICES. OBTAIN AND STUDY AS-BUILT DRAWINGS FOR THIS AREA AND TRACE ALL EXISTING LIGHTING AND OTHER DEVICES CIRCUITS BACK TO THE SOURCE.
3. ALL ELECTRICAL PANELS, LIGHTING AND ELECTRICAL DEVICES THAT ARE NOT LOCATED WITHIN THE LIMITS OF WORK FOR THIS PHASE AND FED FROM THE DEMOLISHED ELECTRICAL EQUIPMENT SHALL BE RECONNECTED TO TEMPORARY POWER SOURCE AND CONNECT TO NEW SERVICE EQUIPMENT AFTER INSTALLATION. PROVIDE ALL NECESSARY UNDERGROUND CONDUITS AND PULL BOXES TO EXTEND EXISTING CIRCUITS AS REQUIRED.
4. DISCONNECT AND REMOVE ELECTRICAL PANELS, ASSOCIATED FEEDERS AND BRANCH CIRCUITS THAT ARE LOCATED WITHIN DEMOLITION SCOPE OF AREA.

SHEET NOTES

1 EXISTING ELECTRICAL PANELS AND EQUIPMENT SERVING BIERS GARTEN SHALL BE DEMOED. CONTRACTOR TO TRACE SOURCE OF PANELS. DEMO FEEDS AND CONDUIT BACK TO SOURCE AND LABEL AS SPARE. DEMOLISHED EQUIPMENT TO BE SALVAGED OR RETURN TO OWNER OR DISPOSED AS NEEDED.

2 EXISTING ELECTRICAL PANELS AND EQUIPMENT SERVING 18 POUND EXHIBIT SHALL BE DEMOED. CONTRACTOR TO TRACE SOURCE OF PANELS. DEMO FEED AND CONDUIT BACK TO SOURCE, TURN OFF BREAKER AND LABEL AS SPARE. DEMOLISHED EQUIPMENT TO BE SALVAGED OR RETURN TO OWNER OR DISPOSED AS NEEDED.

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
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300 Alamo Plaza, Suite 200
San Antonio, TX 78205
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Houston, TX 77042
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San Antonio, TX 78215
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Tel 210.375.9000

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Civil Engineer
Parra & Co
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San Antonio, TX 78205
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7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

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ISSUED DATE: 06/06/2024
ENGINEER / DESIGNER: BRIAN MEHRJOU
ENGINEER LICENSE NUMBER: 125235 (TEXAS)

Project Name
ALAMO SITE - AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
ELECTRICAL - AREA 5 - DEMOLITION PLAN - LOWER PASEO

Scale
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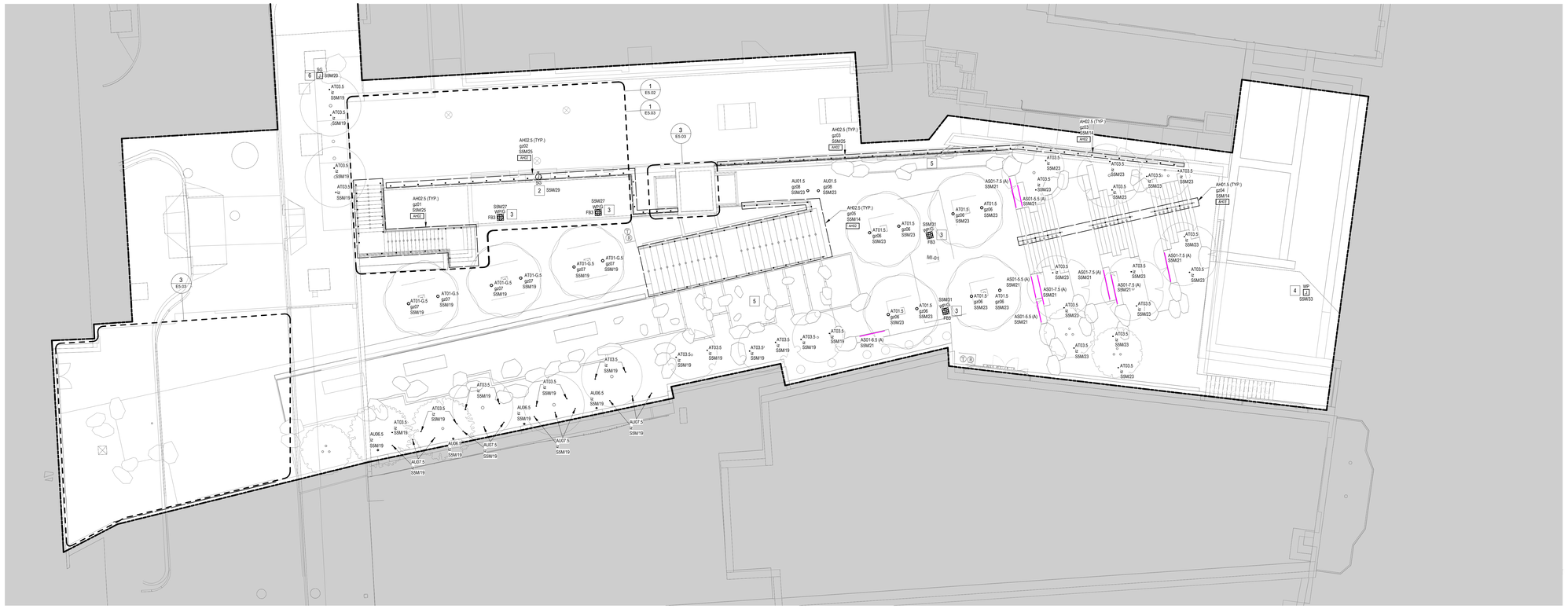

1 5 LOWER PASEO - POWER PLAN

1" = 10'-0"

0 5' 10' 20'

SCALE: 1" = 10'-0"

N

GENERAL NOTES

1. REFER TO LANDSCAPE ARCHITECT DRAWINGS FOR EXACT LOCATIONS, MOUNTING AND SUPPORT REQUIRTEMENT OF ALL DEVICES AND LIGHTING FIXTURES PRIOR TO INSTALLATION. CONTRACTOR TO ALSO VERIFY EXACT LOCATIONS OF ALL AT02.2, AT03.2, AND AT04.2 TREE LIGHTS ON SITE WITH LIGHTING DESIGNER AND LANDSCAPE ARCHITECT PRESENT PRIOR TO FINAL INSTALLATION.
2. COORDINATE LIGHTING FIXTURES WITH SPECIFICATION 265600 - SITE LIGHTING.
3. WHERE REQUIRED ALL SPLICING TO BE DONE IN THE PULL BOX. CONTRACTOR TO PROVIDE WATERPROOF SPLICING KIT.
4. ALL LIGHTING FIXTURES AND SMALL POWER TO BE CIRCUITED FROM NEW PANEL PP-EC.
5. ALL EXTERIOR EQUIPMENT AND DEVICES TO BE GFCI PROTECTED AND OUTDOOR RATED AS REQUIRED.
6. CONTRACTOR TO COORDINATE INSTALLATION OF ALL SITE CONDUITS WITH CIVIL ENGINEER AND WITH THE INSTALLATION OF ALL PAVING AND/OR CONCRETE SLABS. CONDUITS TO BE LOCATED OUTSIDE OF TREE ROOT ZONES. REFER TO LANDSCAPE DRAWINGS FOR TREE ROOT ZONES LOCATIONS. ALL CONDUIT TO BE ROUTED AT OR BELOW NEC REQUIRED DEPTH.
7. ALL LIGHTING SHALL BE ROUTED THROUGH LIGHTING CONTROLS FOR TIME-OF-DAY CONTROL. LIGHTING CONTROL SHALL MEET THE REQUIREMENTS OF IECC AND OTHER APPLICABLE LOCAL CODES.
8. CONDUIT ROUTING SHOWN IN DRAWING IS DIAGRAMMATIC. CONTRACTOR TO COORDINATE ROUTING OF CONDUIT BETWEEN TRADES PRIOR TO ANY WORK.
9. CONTRACTOR TO REFER TO T SERIES DRAWINGS BY DATACOM FOR ALL CONDUIT AND PULLBOX REQUIREMENTS SERVING LOW VOLTAGE.
10. CONTRACTOR TO REFER TO WATER FEATURE DRAWINGS FOR REQUIREMENTS IN NEW PUMP ROOM.

SHEET NOTES

1. REFER TO WATER FEATURE DRAWINGS FOR POWER DISTRIBUTION REQUIREMENTS IN PUMP ROOM.
2. PROVIDE CAPPED 1"C WITH PULL STRING FOR FUTURE WAYFINDING POWER CONNECTION. COORDINATE FURTHER BETWEEN TRADES PRIOR TO ANY WORK.
3. PROVIDE TWO 2-GANG OUTDOOR GROUND BOX WITH GFCI RECEPTACLE FOR EVENT. UG BOX TO HAVE TAMPER RESISTANT LOCKABLE IN USE COVER. REFERENCE FLOOR BOX SCHEDULE ON SHEET E0.11 FOR MORE INFORMATION. DETAILS OF EXACT LOCATIONS TO BE COORDINATED WITH LANDSCAPE DRAWINGS.
4. PROVIDE POWER CONNECTION FOR 18 POUNDER DISPLAY. COORDINATE PHASING AND/OR LOCATION REQUIREMENT WITH TRADES.
5. REFER TO WATER FEATURE CONSULTANT DRAWINGS AND SPECIFICATIONS FOR INTEGRATED WATER FEATURE LIGHTING.
6. PROVIDE POWER CONNECTION FOR SIGNAGE LIGHTING.

ALAMO TRUST INC.
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ALAMO SITE - AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
ELECTRICAL - AREA 5 - ELECTRICAL PLAN - LOWER PASEO

Scale
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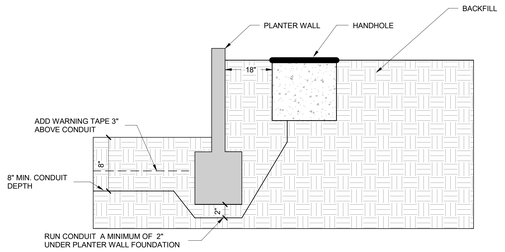
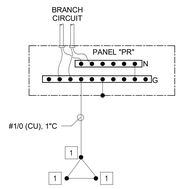


GENERAL NOTES:
1. TRENCHING SHALL BE LIMITED TO UP TO 12" BELOW GRADE.
2. ALL CONDUIT TO BE RMC PVC COATED.
3. CONDUIT DEPTH AND MINIMUM COVER TO BE PER NEC 300.5.
4. THIS DETAIL IS DIAGRAMMATIC. REFER TO LANDSCAPE ARCHITECT FOR MORE INFORMATION.

4 TYPICAL CONDUIT ROUTING AND HANDHOLE DETAIL - PLANTERS
NTS



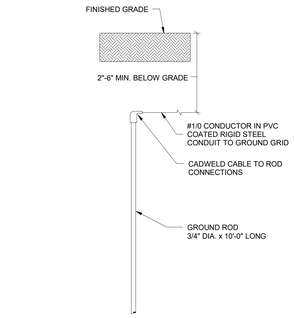
REFERENCE NOTES:

1	GROUND ROD.

GROUNDING NOTES:

1. REFER TO DETAIL 8 THIS SHEET FOR GROUNDING ROD DETAILS.
2. REFERENCE DETAIL 1 THIS SHEET FOR GROUNDING ELECTRODE CONDUCTOR SIZE CONDUCTOR OF PANELBOARDS.

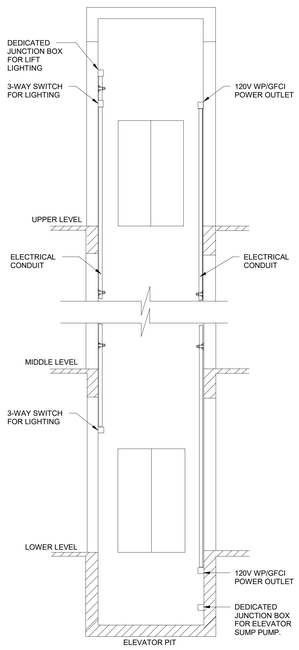
5 ELECTRICAL GROUNDING DETAIL
NTS



GROUNDING NOTES:

ALL CABLE TO ROD AND CABLE TO CABLE CONNECTIONS SHALL BE CADWELDED.
ALL BOLTED CONNECTIONS OF GROUNDING CONDUCTOR SHALL BE MADE WITH LONG BARREL COMPRESSION TYPE LUGS.

6 GROUNDING ROD DETAIL
NTS

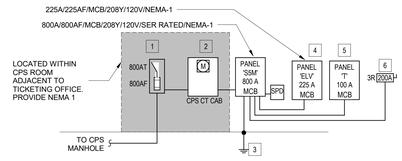


NOTES:
1. REFER TO FLOOR PLANS FOR MACHINE ROOM LOCATIONS AND CONNECTIONS.
2. REFER TO FLOOR PLANS FOR ELEVATOR SUMP PUMP CONNECTIONS AND CONTROL PANEL LOCATION.

7 ELEVATOR SHAFT DETAIL
12" = 1'-0"

LOAD ANALYSIS - ALAMO SITE - PHASE 5 - LOWER PASEO

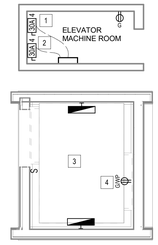
DESCRIPTION	CONNECTED LOAD (KVA)	CONNECTED LOAD (Amps)	DEMAND FACTOR	DEMAND LOAD (KVA)	DEMAND LOAD (Amps)	NOTES
TREE POWER	4	11.1	1	4	11.1	500VA ASSUMED PER TREE
RECEPTACLE	3.6	10.0	1	3.6	10.0	
LIGHTING	4.6	12.8	1.25	5.8	16.0	
ELEVATOR(1X)	15.1	41.9	1	15.1	41.9	GIVEN NAMEPLATE RATING OF 42A, 208V/3PH
WATER FEATURES(PUMP ROOM)	36.0	99.9	1.25	45.0	124.9	100A PER WATER FEATURE CONSULTANT DRAWINGS
CISTERN EQUIPMENT POWER	8.0	22.2	1.25	10.0	27.8	ASSUMED FROM 2AB FULLBUILD INFO
HVAC LOAD	11.0	30.5	1	11.0	30.5	
WATER HEATER	10.0	27.8	1	10.0	27.8	
EVENT AV & LIGHTING	20.0	55.5	1.25	25.0	69.4	20kVA FOR ALL EVENT SPACES ASSUMED
TOTAL ADDED LOAD (KVA):				**129.5**	359.3	
TOTAL LOAD (WITH 25% SPARE)				**161.8**	449.2	
NEW TOTAL CALCULATED LOAD 797A@208V. PROPOSED NEW SERVICE 800A @208V, 3PH						



KEYNOTES: SINGLE LINE DIAGRAM

1	CONTRACTOR TO PROVIDE GRID TIED DISCONNECT ON THE PRIMARY SIDE OF THE CPS METER TO BE INCLUDED IN CUSTOM BUILT MILBANK ENCLOSURE. CONTRACTOR TO CONFIRM AVAILABLE FAULT CURRENT RATING FROM CPS UTILITY. ENCLOSURE TO BE APPROVED BY CPS ENERGY PRIOR TO ORDERING.
2	CPS ENERGY FURNISHED WEATHERPROOF METER IN NEMA 1 ENCLOSURE.
3	GROUNDING PER NEC.
4	ELEVATOR PANEL.
5	TICKETING OFFICE PANEL.
6	200AF/125AT PUMP ROOM DISCONNECT.

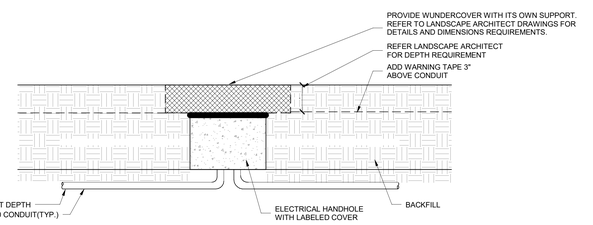
1 NEW ONE-LINE DIAGRAM SERVICE PHASE 5
NTS



ELEVATOR PIT AND MACHINE ROOM NOTES:

1	FUSIBLE DISCONNECT FOR ELEVATOR POWER. COORDINATE EXACT REQUIREMENT WITH ELEVATOR VENDOR PRIOR TO ROUGH-IN.
2	30A, 1P FUSIBLE DISCONNECT FOR ELEVATOR LIGHTING.
3	BRANCH CIRCUITS FOR MACHINE ROOM OR ELEVATOR PIT SHALL BE PER NEC. ELECTRICAL DEVICES SHALL BE IN NEMA 4 ENCLOSURE. COORDINATE WITH PLUMBING DRAWINGS FOR ADDITIONAL DEVICES IN THE ELEVATOR. LIGHTING FIXTURE TO BE VAPOR TIGHT. REFERENCE LIGHTING FIXTURE SCHEDULES FOR FIXTURE DISCRIPTION. COORDINATE WITH MANUFACTURER PRIOR TO ANY WORK.
4	GFCI RECEPTACLE FOR SUMP PUMP. REFERENCE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

2 ELEVATOR MACHINE ROOM + PIT DETAIL
1/4" = 1'-0"



GENERAL NOTES:
1. ALL CONDUIT TO BE PVC.
3. CONDUIT DEPTH AND MINIMUM COVER TO BE PER NEC 300.5.
4. THIS DETAIL IS DIAGRAMMATIC. REFER TO LANDSCAPE ARCHITECT FOR MORE INFORMATION

3 TYPICAL CONDUIT ROUTING AND HANDHOLE DETAIL - PAVERS
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ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

MGAC
Owner's Rep
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

OJB
Landscape Architect
OJB
711 Louisiana Street,
Suite 111
Houston, TX 77002
Tel 713.529.9919

ARUP
MEP, Lighting, Security, and Acoustics Consultant
Arup - Texas Firm Reg. #1990
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.783.2787

DATUM ENGINEERS
Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

PAPE-DAWSON ENGINEERS
Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

PARRA & Co
Civil Engineer
Parra & Co
110 E. Houston Street, Floor 7
San Antonio, TX 78205
Tel 210.819.4848

DATACOM DESIGN GROUP
AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

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△ Date	Description
08/17/2023	100% SCHEMATIC DESIGN
10/26/2023	100% DESIGN DEVELOPMENT
06/06/2024	50% CONSTRUCTION DOCUMENTS

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ISSUED DATE: 06/06/2024
ENGINEER / DESIGNER: BRIAN MEHRJOU
ENGINEER LICENSE NUMBER: 125235 (TEXAS)

Project Name
ALAMO SITE - AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
ELECTRICAL - AREA 5 - DIAGRAMS, PART PLANS

Scale
As indicated

E5.01

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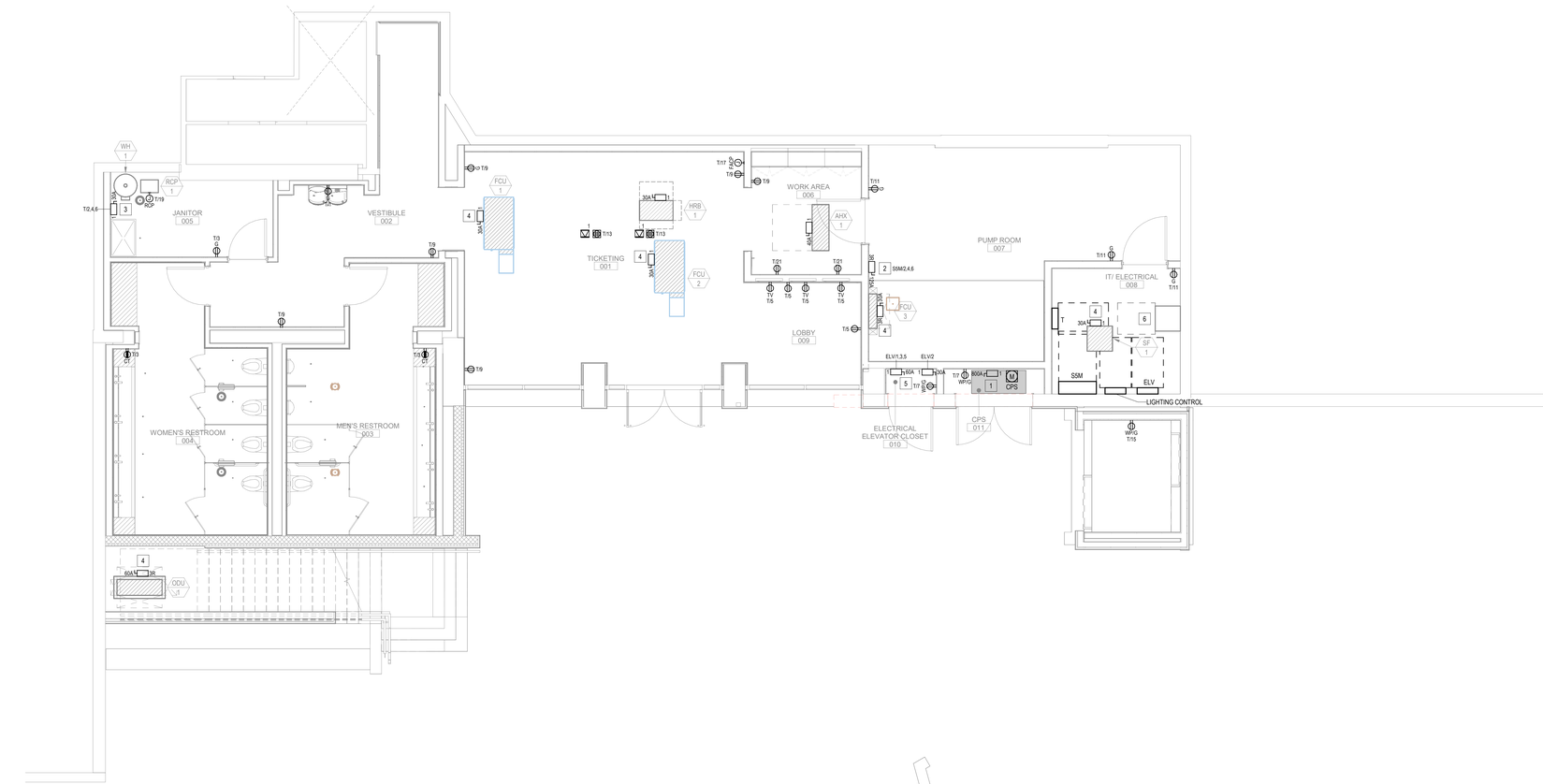
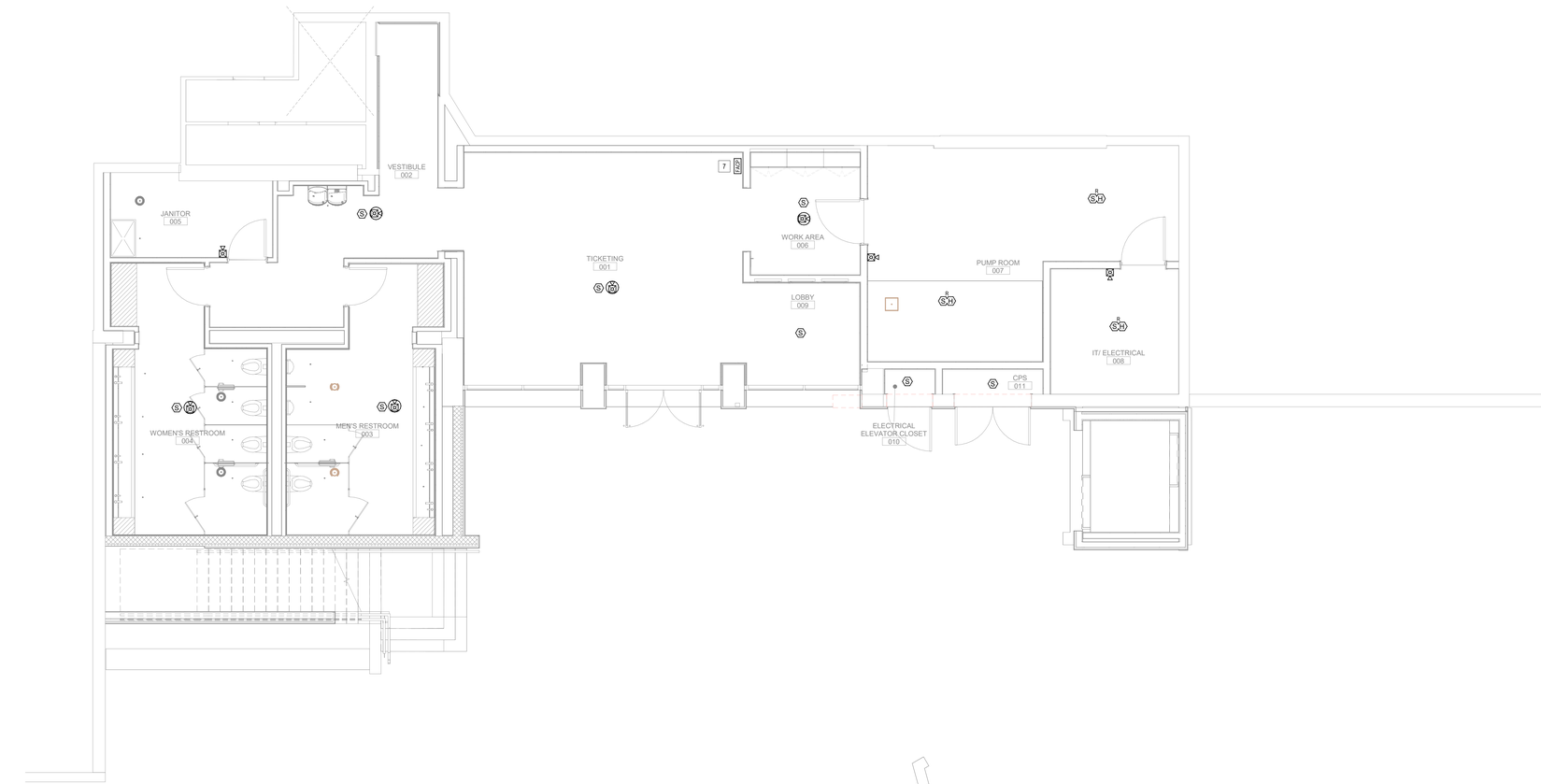


1 RIVER LEVEL - POWER PLAN - TICKETING CENTER
1/4" = 1'-0"



2 RIVER LEVEL - FIRE ALARM PLAN - TICKETING CENTER
1/4" = 1'-0"

SHEET NOTES

POWER NOTES:

1. REFER TO MECHANICAL/PLUMBING PLANS FOR EXACT LOCATION AND REQUIREMENTS OF MECHANICAL/PLUMBING EQUIPMENT.
2. PROVIDE BATTERY PACKS FOR ALL EMERGENCY FIXTURES AND EXIT SIGNS. WIRE FIXTURES AHEAD OF SWITCH. WHEREVER HATCHED EMERGENCY FIXTURE IS TO BE SWITCHED AND/OR DIMMED, PROVIDE AUTOMATIC TRANSFER DEVICE SUCH THAT FIXTURE REMAINS ON AT FULL BRIGHTNESS UPON LOSS OF NORMAL UTILITY POWER. CIRCUIT EXIT SIGNS TO NEAREST EMERGENCY CIRCUIT.
3. PROVIDE SMOKE DETECTORS IN COMMON SPACES, CORRIDORS, AND PUBLIC AREAS AS REQUIRED.
4. PROVIDE CONNECTION AS REQUIRED FOR SECURITY/ACCESS CONTROL DEVICES. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN.
5. PROVIDE CONNECTION AS REQUIRED FOR TELE/DATA SERVICE EQUIPMENT/DEVICES. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH TELE/DATA CONSULTANT PRIOR TO ROUGH-IN.
6. ALL RECEPTACLES LABELED 'GFI' AND ALL 15A AND 20A, 125V OUTLETS WITHIN 6' OF A SINK OR ANY OTHER WET LOCATION SHALL BE GFCI PROTECTED.
7. ALL EXTERIOR EQUIPMENT AND DEVICES TO BE GFCI, WEATHERPROOF, NEMA 3R AS REQUIRED.
8. ALL ELECTRICAL EQUIPMENT LOCATED IN PUMP ROOM TO BE COROSSIVE RESISTANT RATED.

FIRE ALARM NOTES:

1. THESE FIRE ALARM DRAWINGS ARE INTENDED TO SHOW MINIMUM REQUIRED DETECTION AND NOTIFICATION DEVICES ONLY. DEVICES INDICATED ON THESE DOCUMENTS IN NO WAY IMPLY TO BE COMPREHENSIVE OF THE FINAL FIRE ALARM DESIGN. THE INTENT OF THE FIRE ALARM DESIGN PACKAGE IS NOT FOR CITY REVIEW, APPROVAL, AND CONSTRUCTION. THE CONTRACTOR SHALL HIRE A CERTIFIED FIRE ALARM DESIGNER TO DESIGN A COMPLETE FIRE ALARM SYSTEM FOR THE BUIDLING AND ISSUE IT TO THE PERMIT OFFICE FOR REVIEW AND APPROVAL. THE APPROVED SET SHALL BE SUBMITTED FOR RECORD. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO PROVIDE A DESIGN/BUILD FIRE ALARM SYSTEM UPON A THOROUGH REVIEW OF ALL CONTRACT DOCUMENTS. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR ENSURE THAT THE FIRE ALARM SYSTEM IS CODE COMPLIANT, MEETS THE REQUIREMENTS OF THE AHJ, AND COMPREHENSIVELY COVERS AND INCLUDES ALL NECESSARY PARTS AND LABOR.
2. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. CHECK DRAWINGS OF OTHER TRADES RELATED WORK TO VERIFY SPACE WHERE WORK WILL BE INSTALLED.

KEY NOTES

1. CPS GRID-TIED DISCONNECT AND METER. ACTUAL LOCATION AND DIMENSION REQUIREMENT TO BE COORDINATED. EQUIPMENT TO BE RATED FOR TEMPERATURES EXCEDING 120-DEG. WITHOUT IMPACTING FUNCTIONALITY OR INTEGRITY OF DEVICES.
2. DICONNECT FOR PUMP ROOM CONTROL PANEL. REFER TO WATER FEATURE DRAWINGS FOR POWER DISTRIBUTION REQUIREMENTS IN PUMP ROOM. DISCONNECT TO BE ON NEMA-4X ENCLOSURE PER NEC.
3. WATER HEATER POWER CONNECTION. EXACT LOCATION AND REQUIREMENT TO BE COORDINATED.
4. HVAC POWER CONNECTION. EXACT LOCATION AND REQUIREMENT TO BE COORDINATED.
5. PROVIDE POWER AND LIGHTING FOR ELEVATOR CONNECTION. COORDINATE EXACT REQUIREMENT WITH ELEVATOR MANUFACTURER AND/ OR ARCHITECT. COORDINATE ELEVATOR LIGHTING WITH ARCHITECT.
6. WALL MOUNTED DATA CABINET PROVIDED BY OTHERS. MOUNTED AT 72"AFF. REFER TO DATA DRAWINGS FOR FURTHER INFORMATION.
7. FIRE ALARM BATTERY BACK UP REQUIRED FOR 24-HOURS.

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

MGAC
Owner's Rep
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

OJB
Landscape Architect
OJB
711 Louisiana Street,
Suite 111
Houston, TX 77002
Tel 713.529.9919

ARUP
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Arup - Texas Firm Reg. #1990
10370 Richmond Ave., Ste 475
Houston, TX 77042
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Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
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Civil Engineer
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San Antonio, TX 78213
Tel 210.375.9000

PARRA&Co
Civil Engineer
Parra & Co
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San Antonio, TX 78205
Tel 210.819.4848

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

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ENGINEER / DESIGNER: BRIAN MEHRJOU
ENGINEER LICENSE NUMBER: 125235 (TEXAS)

Project Name
ALAMO SITE - AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
ELECTRICAL - AREA 5 - TICKETING CENTER

Scale
As indicated

E5.02

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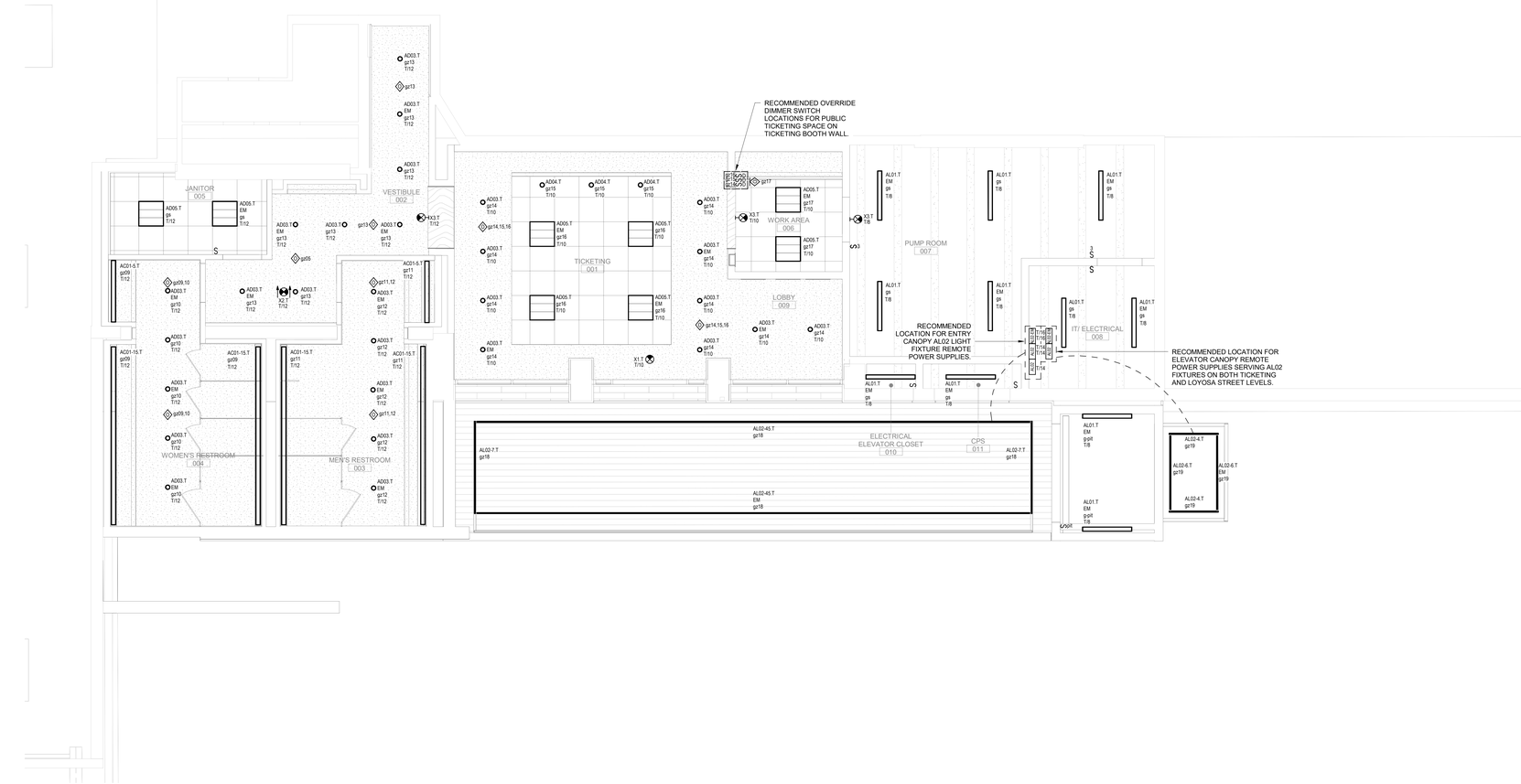
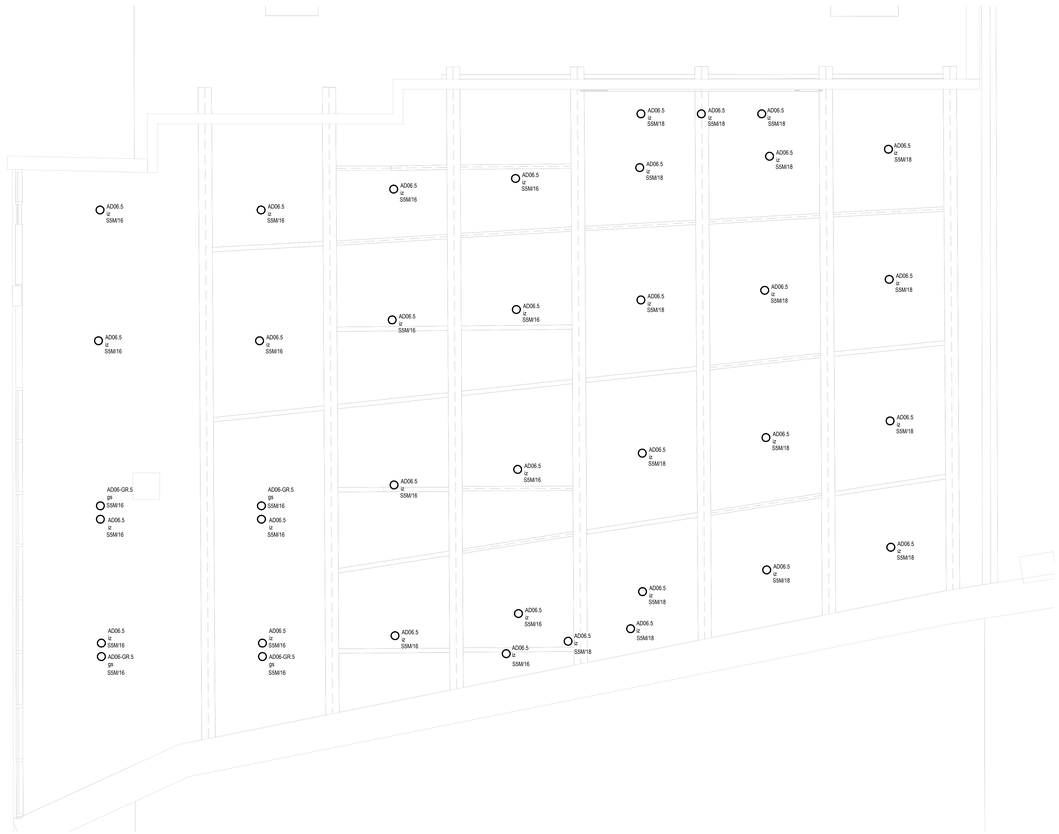
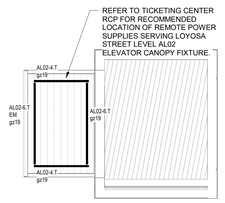


1 RIVER LEVEL - REFLECTED CEILING PLAN - TICKETING CENTER
1/4" = 1'-0"



2 RIVER LEVEL - REFLECTED CEILING PLAN - LOSOYA BRIDGE
1/4" = 1'-0"



3 LOSOYA ST LEVEL - REFLECTED CEILING PLAN - ELEVATOR CANOPY
1/4" = 1'-0"

SHEET NOTES

GENERAL NOTES

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
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Fax 512.463.5001

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730 11th St NW
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711 Louisiana Street,
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10370 Richmond Ave., Ste 475
Houston, TX 77042
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Structural Engineer
Datum Engineers, Inc.
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San Antonio, TX 78215
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Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

PARRA&Co
Civil Engineer
Parra & Co
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San Antonio, TX 78205
Tel 210.819.4848

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AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
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ENGINEER / DESIGNER: BRIAN MEHRJOU
ENGINEER LICENSE NUMBER: 125235 (TEXAS)

Project Name
ALAMO SITE - AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
ELECTRICAL - AREA 5 - TICKETING CENTER

Scale
1/4" = 1'-0"

E5.03

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SYMBOLS

SYMBOL	DESCRIPTION
—F—	FIRE MAIN
—FSP—	FIRE STANDPIPE
—CSP—	COMBINATION STANDPIPE
—SP—	SPRINKLER PIPING (WET)
— — DR — —	DRAIN PIPING
—DSP—	DRY SPRINKLER SYSTEM PIPING
—PA—	PREACTION SPRINKLER PIPING
—DL—	DELUGE SPRINKLER PIPING
	SHUT-OFF VALVE
	CHECK VALVE
	CHECK VALVE WITH ABD
	PRESSURE REDUCING VALVE
	OS & Y VALVE
	OS & Y VALVE IN VERTICAL
	ANGLE HOSE VALVE
	PIPE DROP, RISE OR DOWN
	PIPE CONNECTION, TOP
	PIPE CONNECTION, BOTTOM
	PIPE UP
	CAPPED OUTLET
	PRESSURE GAUGE W/VALVE
	DELUGE VALVE ASSEMBLY
	PREACTION VALVE ASSEMBLY
	DRY VALVE ASSEMBLY
	SPRINKLER ALARM CHECK VALVE ASSEMBLY
	SPRINKLER CONTROL ASSEMBLY
FHR(FHC)	FIRE HOSE RACK/CABINET
	FIRE HOSE RACK/CABINET (RISER)
	FIRE DEPARTMENT CONNECTION
	FREE STANDING FIRE DEPARTMENT CONNECTION
	DIRECTION OF FLOW
	PIPE BREAK
SP #	RISER DESIGNATION
* #	EQUIPMENT DESIGNATION

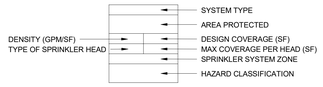
SYMBOLS

SYMBOL	DESCRIPTION
	ELECTRIC HEAT TRACING
	EXISTING PIPING TO BE REMOVED
	EXISTING PIPING TO BE ABANDONED
	EXISTING SPRINKLER CONTROL ASSEMBLY
	POINT OF DISCONNECTION FOR EXISTING WORK
	POINT OF CONNECTION NEW PIPE TO EXISTING
—WM—	WATER MIST PIPING
—FW—	FOAM WATER PIPING
—CG—	CLEAN AGENT GASEOUS PIPING
FS	FLOW SWITCH
TS	TAMPER SWITCH
	OS & Y VALVE WITH TAMPER SWITCH
	BACKFLOW PREVENTER
	FIRE HOSE VALVE IN CABINET (RISER)
FVC	FIRE HOSE VALVE CABINET
	MANIFOLD VALVE
	SIDEWALL SPRINKLER HEAD
E	EXTENDED COVERAGE SIDEWALL SPRINKLER HEAD
D	DRY TYPE SIDEWALL SPRINKLER HEAD
	CONCEALED PENDENT SPRINKLER HEAD
E	EXTENDED COVERAGE CONCEALED PENDENT SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD
E	EXTENDED COVERAGE UPRIGHT SPRINKLER HEAD
	UPRIGHT SPRINKLER HEAD (UNDER DUCT/EQUIPMENT)
	PENDENT SPRINKLER HEAD
E	EXTENDED COVERAGE PENDENT SPRINKLER HEAD
D	DRY TYPE PENDENT SPRINKLER HEAD
	RECESSED PENDENT SPRINKLER HEAD
E	EXTENDED COVERAGE RECESSED PENDENT SPRINKLER HEAD
	OPEN SPRINKLER HEAD
	WINDOW SPRINKLER HEAD
	SPRINKLER WITH GUARD
	ZONE BOUNDARY
	SPRINKLER ZONE
	WATERTIGHT PIPE SLEEVE, BEAM PENETRATION

ABBREVIATIONS

SYMBOL	DESCRIPTION
ABD	AUTOMATIC BALL DRIP
ARCH	ARCHITECTURAL
BLDG	BUILDING
CA	COMPRESSED AIR PIPING
CLG	CEILING
CONN	CONNECTION
CONT	CONTINUATION
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DRAIN
DSP	DRY SPRINKLER PIPING
DWG	DRAWING
EA	EACH
EL	ELEVATION
EQ	EQUAL
EXIST	EXISTING
FCA	FLOOR CONTROL ASSEMBLY
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHV	FIRE HOSE VALVE
F.F.	FINISH FLOOR
FL	FLOOR
FS	FLOW SWITCH
GAL	GALLON
GPM	GALLON PER MINUTE
I.E.	INVERT ELEVATION
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
PA	PREACTION SPRINKLER PIPING
PRV	PRESSURE REDUCING VALVE
SP	SPRINKLER
TS	TAMPER SWITCH
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD
VLV	VALVE
W/	WITH
W/O	WITHOUT

DESIGN CRITERIA LEGEND



FIRE PROTECTION DRAWING LIST - 5 LOWER PASEO

DRG NO.	DRAWING TITLE	SCALE
F0.00	FIRE PROTECTION - AREA 5 - SYMBOLS, ABBREVIATIONS & SHEET LIST	NTS
F0.01	FIRE PROTECTION - AREA 5 - GENERAL NOTES	NTS
F1.00	FIRE PROTECTION - AREA 5 - ORIENTATION PLAN	1/16" = 1'-0"
F1.11	FIRE PROTECTION - AREA 5 - FLOOR PLAN - LOWER PASEO	1" = 10'-0"
F5.01	FIRE PROTECTION - AREA 5 - DIAGRAMS, PART PLANS	1/4" = 1'-0"
F6.01	FIRE PROTECTION - AREA 5 - DETAILS	AS NOTED

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
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The Texas General Land Office
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Civil Engineer
Parra & Co
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AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

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ENGINEER / DESIGNER: TODD STONEBRAKER
ENGINEER LICENSE NUMBER: 88798 (TEXAS)

Project Name
ALAMO SITE - AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
FIRE PROTECTION - AREA 5 - SYMBOLS, ABBREVIATIONS & SHEET LIST

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GENERAL NOTES

1. ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE NEW YORK CITY BUILDING CODE, NATIONAL FIRE PROTECTION CODES, AND ALL OTHER APPLICABLE CODES AND REGULATIONS.
2. COORDINATE FIRE PROTECTION SYSTEMS WITH WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS AS REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
3. COORDINATE LOCATIONS OF ALL SPRINKLER HEADS WITH THE ARCHITECTURAL REFLECTIVE CEILING PLANS AND ELECTRICAL LIGHTING LAYOUT. PRIOR TO FABRICATION SUBMIT LAYOUT DRAWINGS FOR ARCHITECTURAL APPROVAL.
4. EXACT SIZES AND LOCATIONS OF ALL EXISTING PIPING SHALL BE VERIFIED IN FIELD.
5. COORDINATE LOCATIONS OF ALL OPENINGS WITH STRUCTURAL, MECHANICAL, AND ARCHITECTURAL PLANS PRIOR TO ANY INSTALLATION.
6. PLATFORMS, CURBS, AND FLASHINGS FOR FIRE PROTECTION EQUIPMENT SHALL BE AS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL PLANS, UNLESS NOTED OTHERWISE. COORDINATE EXACT SIZES OF REQUIRED OPENINGS AND SUPPORTS FOR FURNISHED EQUIPMENT.
7. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODES. PROVIDE ALL FITTINGS, TRANSITIONS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
8. MAINTENANCE LABEL SHALL BE AFFIXED TO ALL FIRE PROTECTION EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED TO OWNER.
9. THE TERM CONTRACTOR SHALL REFER TO THE FIRE PROTECTION SYSTEMS CONTRACTOR.
10. CONTRACTOR SHALL PREPARE AND SUBMIT ALL NECESSARY DRAWINGS AND/OR DOCUMENTS FOR THE PROVISION AND INSTALLATION OF A FULLY AUTOMATIC FIRE SPRINKLER SYSTEM AND STANDPIPE THROUGHOUT THE BUILDING, IN ACCORDANCE WITH AND SUBJECT TO THE NFPA PAMPHLET 13 AND 14, NYC CODES, REGULATIONS, AND APPROVALS.
11. CONTRACTOR SHALL OBTAIN APPROVAL FROM THE FIRE MARSHAL AND AUTHORITIES HAVING JURISDICTION FOR THE SPRINKLER SYSTEM PRIOR TO INSTALLATION.
12. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE A TEMPORARY FIRE PROTECTION DURING CONSTRUCTION IF REQUIRED BY THE AUTHORITIES HAVING JURISDICTION.
13. ALLOW UP TO 6 ADDITIONAL SPRINKLER HEADS IN MECHANICAL EQUIPMENT ROOMS TO PROVIDE ADDITIONAL COVERAGE DUE TO OBSTRUCTIONS (DUCTS, EQUIPMENT, ETC.)
14. THE UNSUPPORTED LENGTH BETWEEN THE END SPRINKLER AND THE LAST HANGER ON THE SPRINKLER BRANCH SHALL NOT BE GREATER THAN 12".
15. PIPE SIZES AND LAYOUTS AS INDICATED ON THE PLANS ARE DIAGRAMMATIC AND ARE INTENDED TO SHOW DESIGN INTENT. FIRE SPRINKLER CONTRACTOR SHALL PREPARE AND SUBMIT ALL NECESSARY DRAWINGS, HYDRAULIC CALCULATIONS AND DOCUMENTS FOR THE PROVISION AND INSTALLATION OF A FULLY AUTOMATIC FIRE SPRINKLER SYSTEM AND STANDPIPE SYSTEM THROUGHOUT THE BUILDING, IN ACCORDANCE WITH AND SUBJECT TO NFPA 13 AND ALL OTHER APPLICABLE CODES, REGULATIONS, AND APPROVALS.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PROVIDE ALL ASSOCIATED FEES.
17. PENETRATIONS SHALL BE PROVIDED IN A WORKMANLIKE MANNER WITH PROPER CLEARANCE.
18. AUXILIARY DRAINS REQUIRED TO DRAIN ANY TRAPPED SECTIONS OF PIPING TO BE PROVIDED WITH VALVE, HOSE CONNECTION AND CAP AND SHALL BE PROVIDED AS REQUIRED. TRAPPED SECTIONS OF PIPE SHALL MEET THE CRITERIA OF NFPA 13.
19. VALVES AND OTHER ASSOCIATED SPRINKLER SYSTEM EQUIPMENT REQUIRING PERIODIC MAINTENANCE SHALL BE INSTALLED IN SUCH A MANNER THAT WILL FACILITATE EASE OF MAINTENANCE. VALVES AND OTHER ASSOCIATED EQUIPMENT SHALL NOT BE LOCATED IN AREAS THAT ARE DIFFICULT TO ACCESS FOR MAINTENANCE. FOR LOCATIONS THAT MIGHT BE DIFFICULT TO ACCESS, THE CONTRACTOR SHALL REQUEST DESIGN DIRECTION FROM THE ENGINEER.
20. SPRINKLERS LOCATED NEAR HEAT SOURCES SUCH AS UNIT HEATERS AND SKYLIGHTS SHALL HAVE ACTIVATION TEMPERATURES APPROPRIATE FOR ELEVATED TEMPERATURES PER NFPA 13.
21. "SPRINKLER LAYOUTS SHALL FOLLOW THE OBSTRUCTION RULES IN NFPA 13 AND THOSE PROVIDED BY THE MANUFACTURER. SPRINKLERS SHALL BE LOCATED UNDER FIXED OBSTRUCTIONS GREATER THAN 4 FT IN WIDTH IN ACCORDANCE WITH NFPA 13. PROVIDE LISTED GUARDS IN ACCORDANCE WITH NFPA 13 WHERE APPLICABLE. SPRINKLERS INDICATED UNDER FIXED OBSTRUCTIONS ARE INDICATIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND PROVIDING SPRINKLERS UNDER WIDE FIXED OBSTRUCTIONS WHERE REQUIRED BY NFPA 13. "
22. SPRINKLERS SHALL NOT BE LOCATED CLOSER THAN 6 FT (OR 8 FT FOR EXTENDED COVERAGE SPRINKLERS) FROM ANOTHER SPRINKLER UNLESS A BAFFLE HAS BEEN PROVIDED. BAFFLES IF REQUIRED SHALL BE PROVIDED BY THE CONTRACTOR. WHERE SPRINKLERS ARE LOCATED CLOSER THAN THIS, THE SHOP DRAWINGS SHALL CLEARLY INDICATE THE REASON FOR THIS INSTALLATION.
23. ONLY LISTED HANGERS, AND SUPPORTS SHALL BE USED FOR FIRE PROTECTION EQUIPMENT. FOR CASES WHERE A UNIQUE OR SPECIAL SUPPORT HANGER OR BRACE IS REQUIRED, THE CONTRACTOR SHALL HAVE A STRUCTURAL ENGINEER PROVIDE CALCULATIONS AND CERTIFY THAT THE UNIQUE DESIGN IS APPROPRIATE FOR THE APPLICATION.
24. SPRINKLER PIPING SHALL NOT PENETRATE ANY DUCTS UNLESS IT IS TO SERVE THE SPRINKLER SYSTEM FOR THE DUCTS.
25. HANGERS FOR SPRINKLER PIPE SHALL ONLY BE USED FOR SUPPORTING SPRINKLER PIPE. OTHER MECHANICAL SYSTEMS AND EQUIPMENT SHALL NOT BE SUPPORTED BY SPRINKLER SUPPORTS. SPRINKLER SUPPORTS SHALL BE DIRECTLY CONNECTED TO THE STRUCTURE, SUPPORTS SHALL NOT BE CONNECTED TO OTHER EQUIPMENT, EQUIPMENT SUPPORTS, OR EQUIPMENT SUCH AS TRAPEZE HANGERS WHICH ARE NOT DEDICATED FOR THE SOLE USE OF SPRINKLER SYSTEMS.
26. CONTRACTOR SHALL SIZE PIPING IN STRICT ACCORDANCE WITH NFPA 13.
27. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL SPRINKLERS IN ACCORDANCE WITH THE SPECIFICATIONS AND DRAWINGS (WHERE INDICATED). COORDINATE LOCATIONS OF ALL SPRINKLER HEADS WITH THE ARCHITECTURAL REFLECTED CEILING PLANS, HVAC DIFFUSER AND ELECTRICAL LIGHTING LAYOUT. PRIOR TO FABRICATION SUBMIT LAYOUT DRAWINGS FOR APPROVAL. ALL SPRINKLERS SHALL BE LOCATED CENTER OF TILE WHERE APPLICABLE.
28. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY PLACEMENT OF PIPE, VALVES, AND ALL OTHER COMPONENTS TO PROVIDE REQUIRED CLEARANCES FROM OBSTRUCTIONS IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS AND CITY REQUIREMENTS.
29. CONTRACTOR SHALL PROVIDE TEMPORARY HEAT, TEMPORARY POWER, AND TEMPORARY PROTECTION IN A WORKMANLIKE MANNER AND AS REQUIRED BY THE OWNER, AND GOOD PRACTICES.
30. CONTRACTOR SHALL PERFORM HYDROSTATIC TESTS AND FLUSHING AS REQUIRED BY NFPA 13 AND FURNISH ALL TEST EQUIPMENT REQUIRED. FURNISH COPIES OF ALL TEST CERTIFICATES TO PROJECT MANAGER.
31. ALL FIRE ALARM CONNECTIONS SHALL BE COORDINATED WITH THE FIRE ALARM CONTRACTOR. SPRINKLER CONTRACTOR SHALL PROVIDE AND INSTALL ALL FLOW SWITCHES, TAMPER SWITCHES, AND PRESSURE SWITCHES. FIRE ALARM CONTRACTOR SHALL PROVIDE ALL MONITOR MODULES AND MAKE ALL CONNECTIONS AS REQUIRED PER NFPA 72.
32. SPRINKLERS SHALL BE OF THE QUICK RESPONSE TYPE, EXCEPT AS NOTED, OR IN OCCUPANCIES WHERE QUICK RESPONSE SPRINKLERS ARE NOT LISTED FOR USE.
33. SPRINKLERS INSTALLED IN MECHANICAL AND ELECTRICAL EQUIPMENT ROOMS, CLOSETS AND OTHER AREAS SUSCEPTABLE TO DAMAGE SHALL BE EQUIPPED WITH LISTED SPRINKLER GUARDS TO PROVIDE PROTECTION AGAINST ACCIDENTAL DAMAGE.
34. SPRINKLERS SHALL NOT BE LOCATED DIRECTLY ABOVE ELECTRICAL EQUIPMENT. ALL SPRINKLERS PROTECTING ELECTRICAL EQUIPMENT SHALL BE OF HIGH TEMPERATURE RATING AND EQUIPPED WITH GUARDS.
35. PROVIDE FLEXIBLE COUPLINGS FOR PIPING THAT CROSSES BUILDING EXPANSION JOINTS IN ACCORDANCE WITH NFPA 13 AND NFPA 14.
36. "THE CONTRACTOR SHALL BE RESPONSIBLE FOR CREATING DETAILS AND THOSE DETAILS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. DETAILS SHALL MINIMALLY INCLUDE TYPICAL PIPE HANGER AND SPRINKLER ARRANGEMENTS, FLOOR CONTROL ASSEMBLY DETAILS, AND OTHER DETAILS PERTINENT TO THE INSTALLATION OF THE SYSTEM. "
37. SPARE SPRINKLERS SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13.
38. "PIPING PASSING THROUGH FIRE-RATED SEPARATIONS SHALL BE PROPERLY FIRESTOPPED WITH RATED MATERIALS FOR THE SYSTEM. REFER TO ARCHICTECTURAL PLANS FOR RATED SEPARATIONS. "
39. RESPONSIBLE FOR COORDINATING SPRINKLER LOCATIONS ACCORDINGLY WITH FINAL CEILING PLANS. CEILING DEPRESSIONS THAT ARE 12" DEEP OR LESS WITH SPRINKLERS ON THE LOWER CEILING LOCATED WITHIN 12" OF THE HIGHER CEILING SHALL NOT BE REQUIRED TO BE CLASSIFIED AS UNPROTECTED CEILING POCKETS.
40. ALL FIRE PROTECTION CONTROL VALVES SHALL BE ELECTRICALLY SUPERVISED.
41. IF THE FIRE PROTECTION CHOOSES TO REUSE ANY PORTION OF THE EXISTING PIPING NOTED TO DEMOLISHED, THEY SHALL IN EVERY WAY TO BE RESPONSIBLE FOR ITS INSTALLATION, INCLUDING ANY AND ALL REQUIRED TESTS, INSPECTIONS, AND REVISED HYDROULIC CALCULATIONS.
42. INSTALLATION SHALL MEET THE CLIENT'S REQUIREMENTS AND ITS INSURANCE UNDERWATER (FM) GUIDELINES AND STANDARDS. CONTRACTOR TO OBTAIN AND COORDINATE STANDARDS WITH THE CLIENT.
43. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SHUT-DOWNS OF WATER OR OTHER UTILITIES AND SHALL COORDINATE ALL SHUT-DOWNS WITH OWNER IN WRITING, 72 HOURS IN ADVANCE.
44. CONTRACTOR BE RESPONSIBLE TO DRAIN AND FILL ANY EXISTING FIRE WATER SYSTEMS TO ACCOMPLISH HIS WORK.
45. SCHEDULE E0, IS, 20, 25 & 30 PIPING SHALL NOT BE INSTALLED ON THIS PROJECT. SCHEDULE 10 PIPING MAY BE UTILIZED FOR PIPING 4" AND LARGER AT OR ABOVE THE CEILING.
46. CONTRACTOR SHALL INSTALL A SHEET METAL PAN BELOW SPRINKLER PIPING IN ALL IT CLOSETS.
47. CONTRACTOR RESPONSIBLE FOR DRAINING THE SPRINKLER SYSTEM AND FILLING AND/OR ACTIVATING THE FIRE PROTECTION SYSTEM AT THE END OF EACH DAY OR PROVIDE 24 HOUR FIRE WATCH.

DESIGN CRITERIA

ENTIRE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY CALCULATED TO MEET FOLLOWING CRITERIA:

1. ORDINARY 1 HAZARD OCCUPANCY - STORAGE AND MECHANICAL ROOMS: DENSITY 0.16 GPM PER SQ.FT. OVER MOST HYDRAULICALLY REMOTE 1500 SQ.FT., MAXIMUM COVERAGE PER SPRINKLER HEAD 130 SQ.FT.
2. LIGHT HAZARD OCCUPANCY - ALL OTHER AREAS: DENSITY 0.10 GPM PER SQ.FT. OVER MOST HYDRAULICALLY REMOTE 1500 SQ.FT., MAXIMUM COVERAGE PER SPRINKLER HEAD 225 SQ.FT.
3. EXACT LOCATION OF SPRINKLER HEADS IN FINISHED AREAS WITH SUSPENDED CEILINGS SHALL BE AS INDICATED ON ARCHITECTURAL REFLECTED CEILING PLANS.
4. MINIMUM PRESSURE AT SPRINKLER HEAD 7 PSI.
5. WHENEVER ROLL GROOVED CONNECTIONS ARE USED, ALLOWANCE FOR ADDITIONAL PRESSURE LOSS AT GROOVES SHALL BE MADE AS FOLLOWS:
   A. FOR EACH COUPLING ON STRAIGHT RUN INCLUDING STRAIGHT FLOW THROUGH TEE OR CROSS: ADD 1 EQUIVALENT FOOT OF PIPE.
   B. FOR EACH COUPLING AT ELBOW, TEE OR CROSS WHERE DIRECTION OF FLOW CHANGES: ADD 2 EQUIVALENT FEET OF PIPE.
6. EQUIVALENT FITTING LENGTHS USED IN HYDRAULIC CALCULATIONS SHALL BE IN ACCORDANCE WITH NFPA-13.
7. WHEREVER FITTINGS ARE USED IN CONJUNCTION WITH LIGHTWALL PIPE, EQUIVALENT FITTING LENGTHS INDICATED IN NFPA-13 SHALL BE INCREASED BY 30%.
8. DISCHARGE FROM EACH SPRINKLER HEAD SHALL NOT BE LESS THAN REQUIRED FOR AREA COVERED BY THIS HEAD. AREA COVERAGE PER HEAD SHALL BE DETERMINED IN ACCORDANCE WITH NFPA-13, PARAGRAPH 7-4.30.1.2.
9. HYDRAULIC CALCULATIONS SHALL BE BROUGHT BACK TO CONNECTION TO WATER SUPPLY.
10. CONTRACTOR SHALL BASE ALL HYDRAULIC CALCULATIONS ON AVAILABLE PRESSURE AT CONNECTION TO RISER.
11. RESULT OF HYDRAULIC CALCULATIONS SHALL INDICATE MINIMUM 5% PRESSURE SAFETY MARGIN, I.E. EXCESS OF PRESSURE AVAILABLE OVER PRESSURE REQUIRED.
12. PROVIDE PRESSURE REDUCING VALVES AT FLOOR CONTROL ASSEMBLIES WHERE NECESSARY TO MAINTAIN MINIMUM 30 MINUTES WATER SUPPLY.

DEMOLITION NOTES

1. DEMOLITION PLANS ARE FOR GENERAL CONCENTRATION OF DEMOLITION WORK. ADDITIONAL DEMOLITION WORK MAY BE NECESSARY IN AREAS WHERE NO DEMOLITION WORK IS INDICATED. ITEMS TO REMAIN AND POINTS OF DISCONNECTIONS/CONNECTIONS ARE SHOWN ON PLANS.
2. CONTRACTOR SHALL REMOVE ANY EXISTING PIPING IN CONFLICT WITH THE ERECTION OF NEW WALLS AND RELOCATE TO MAINTAIN SERVICE.
3. EACH BIDDER PRIOR TO BID SHALL VISIT THE SITE TO EXAMINE EXISTING CONDITIONS AND BECOME INFORMED OF THE EXTENT AND CHARACTER OF WORK REQUIRED. NO ADDITIONAL COMPENSATION WILL BE APPROVED DUE TO FIELD CONDITIONS.
4. EXACT SIZES AND LOCATIONS OF ALL EXISTING PIPING SHALL BE VERIFIED IN FIELD.
5. ALL EXISTING PIPING TO REMAIN SHALL BE PROTECTED FROM DAMAGE DURING DEMOLITION. ANY DAMAGES INCURRED SHALL BE REPAIRED OR REPLACED AT NO COST BY THIS CONTRACTOR.
6. ALL COSTS RESULTING FROM TEMPORARY SHUTDOWNS OF SERVICES SHALL BE BORN BY THIS CONTRACTOR.
7. CONTRACTOR SHALL MAINTAIN FULL SERVICE TO EXISTING AREAS THAT ARE TO REMAIN. CONTRACTOR SHALL VISIT THE PREMISES TO ASCERTAIN EXISTING CONDITIONS AND AREAS TO REMAIN IN SERVICE.
8. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION REGARDING ALL AREAS AFFECTED BY NEW CONSTRUCTION AND CONTRACT LIMIT LINES.
9. DEMOLITION WORK, NEW WORK AND CONNECTIONS TO EXISTING SHALL BE PROVIDED WITH MINIMUM INTERFERING WITH THE OPERATION OF THE FACILITY. PLUMBING SERVICE SHUTDOWNS OR INTERFERENCE WITH THE ACTIVE AREAS SHALL NOT BE PERMITTED WITHOUT PERMISSION OF THE OWNER. NOTIFICATION OF THE OWNER IN ADVANCE IN WIRTING IS REQUIRED PRIOR TO ANY SHUTDOWN. MAKE TEMPORARY CONNECTIONS IF NECESSARY TO INSURE CONTINUOUS OPERATION.
10. IN THE PROCESS OF DEMOLITION, THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION TO PREVENT DAMAGE TO ARCHITECTURAL SURFACES AND MATERIALS INCLUDING WALLS, FLOORS CEILINGS, WINDOWS, DOORS, MOLDINGS, STRUCTURAL MEMBERS, ETC. THE COST TO REPAIR OR REPLACE ANY MATERIAL DEEMED BY THE ARCHITECT TO HAVE BEEN UNDULY DAMAGED BY THIS CONTRACTOR DURING DEMOLITION OR CONSTRUCTION SHALL BE PAID BY THIS CONTRACTOR AT NOT ADDITIONAL COST TO THE OWNER.
11. CONTRACTOR TO REVIEW ACTUAL CONDITIONS OF ALL BUILDING SYSTEM COMPONENTS AND PROVIDE PROTECTION FOR ALL PIPING, DUCTS, CABLES, CONDUITS, DEVICES, AND EQUIPMENT.
12. ALL DEMOLITION OF SPRINKLERS UNDER CONVEYOR SYSTEM SHALL BE COORDINATED WITH THE BAGGAGE SYSTEM PHASING WORK.
13. OWNER SHALL COORDINATE CONSTRUCTION PHASING WITH OWNER AND ARCHITECT PRIOR TO ANY DEMOLITION WORK.

SUBMITTALS

1. CONTRACTOR SHALL REFER TO SECTION 013300 DIVISION 1 OF THE GENERAL REQUIREMENTS SPECIFICATION FOR THE PROCEDURES OF ALL SUBMITTALS IN ADDITION TO THE REQUIREMENTS LISTED BELOW.
2. THE CONTRACTOR SHALL PREPARE AND MAINTAIN A SUBMITTAL REVIEW SCHEDULE, CLEARLY INDICATING THE NUMBER AND TYPE OF SUBMITTALS ISSUED TO THE DESIGN TEAM EACH WEEK.
3. SUBMITTALS SHALL BE ISSUED TO THE DESIGN TEAM IN THE ORDER IN WHICH REVIEWS ARE REQUIRED BY THE CONTRACTOR. THE DESIGN TEAM WILL ONLY REVIEW SUBMITTALS IN THE ORDER IN WHICH THEY WERE RECEIVED.
4. SUBSTITUTION REQUESTS, REMEDIAL WORKS FOR FIELD CONDITIONS, REMEDIAL WORKS FOR CONTRACTOR ERRORS, AND SIMILAR CONDITIONS SHALL BE AGREED BY THE DESIGN TEAM IN WRITING PRIOR TO THEIR ISSUANCE BY THE CONTRACTOR AS A SUBMITTAL.
5. ONLY SUBMITTALS REQUIRED BY THESE SPECIFICATIONS, AS WELL AS ANY ADDITIONAL SUBMITTALS AGREED TO IN WRITING, SHALL BE REVIEWED BY THE DESIGN TEAM.
6. THE DESIGN TEAM RESERVES THE RIGHT TO REJECT SUBMITTALS IF ANY OF THE REQUIREMENTS STATED IN THIS SECTION ARE NOT MET.
7. THE CONTRACTOR UNDERSTANDS THAT AN ORDERLY SUBMITTAL PROCESS, MEETING THE CONDITIONS STATED IN THIS SECTION, IS A PRE-REQUISITE FOR THE DESIGN TEAM TO MEET THE AGREED SUBMITTAL REVIEW PERIODS.
8. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CALCULATIONS SIGNED BY A DRO OR CSE INCLUDING REGISTRATION NUMBER AS REQUIRED BY THE SPECIFICATIONS, FOR ENGINEER'S APPROVAL.
9. ONLY SHOP DRAWINGS MARKED "NO EXCEPTIONS TAKEN", "REVISE AS NOTED" OR "SEE COMMENTS NOTED" MAY BE USED BY CONTRACTOR IN THE WORK. SHOP DRAWINGS MARKED "REJECTED" OR "RESUBMIT FOR REVIEW" SHALL BE CORRECTED AND COMPLETED AS REQUIRED AND RESUBMITTED TO THE ARCHITECT AND REVIEWED BY THE ARCHITECT BEFORE THEY ARE USED IN THE WORK.
10. THE REVIEW PERIOD FOR SUBMITTALS AND SHOP DRAWINGS SHALL BE 21 CALENDAR DAYS FROM RECEIPT OF SUBMITTAL OR SHOP DRAWING
11. THE REVIEW PERIOD FOR REQUESTS FOR INFORMATION SHALL BE 7 CALENDAR DAYS FROM RECEIPT OF REQUEST FOR INFORMATION.

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

MGAC
Owner's Rep
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

OJB
Landscape Architect
OJB
711 Louisiana Street, Suite 111
Houston, TX 77002
Tel 713.529.9919

ARUP
MEP, Lighting, Security, and Acoustics Consultant
Arup - Texas Firm Reg. #1990
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.783.2787

DATUM ENGINEERS
Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

PAPE-DAWSON ENGINEERS
Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

PARRA&Co
Civil Engineer
Parra & Co
110 E. Houston Street, Floor 7
San Antonio, TX 78205
Tel 210.819.4848

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

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Date	Description
10/26/2023	100% DESIGN DEVELOPMENT
06/06/2024	50% CONSTRUCTION DOCUMENTS

PRELIMINARY
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ISSUED DATE: 06/06/2024
ENGINEER / DESIGNER: TODD STONEBRAKER
ENGINEER LICENSE NUMBER: 88798 (TEXAS)

Project Name
ALAMO SITE - AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
FIRE PROTECTION - AREA 5 - GENERAL NOTES

Scale
12" = 1'-0"

F0.01

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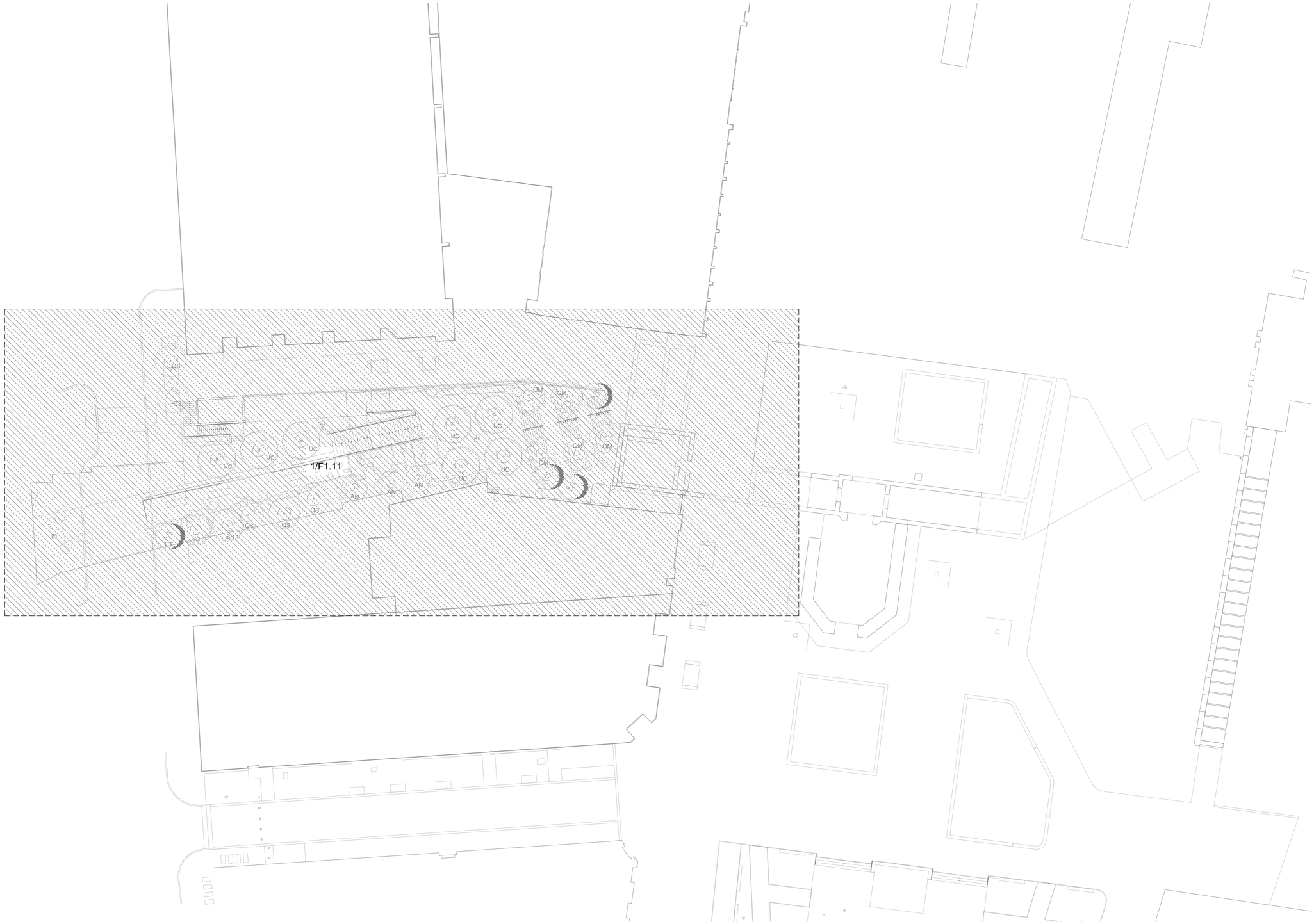

1 5 LOWER PASEO - FIRE PROTECTION - ORIENETATION PLAN
1/16" = 1'-0"

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

MGAC
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MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

OJB
Landscape Architect
OJB
711 Louisiana Street,
Suite 111
Houston, TX 77002
Tel 713.529.9919

ARUP
MEP, Lighting, Security, and Acoustics Consultant
Arup - Texas Firm Reg. #1990
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.783.2787

DATUM ENGINEERS
Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

PAPE-DAWSON ENGINEERS
Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

PARRA&Co
Civil Engineer
Parra & Co
110 E. Houston Street. Floor 7
San Antonio, TX 78205
Tel 210.819.4848

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

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ENGINEER LICENSE NUMBER: 88798 (TEXAS)

Project Name
ALAMO SITE - AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
FIRE PROTECTION - AREA 5 - ORIENTATION PLAN

Scale
1/16" = 1'-0"

F1.00

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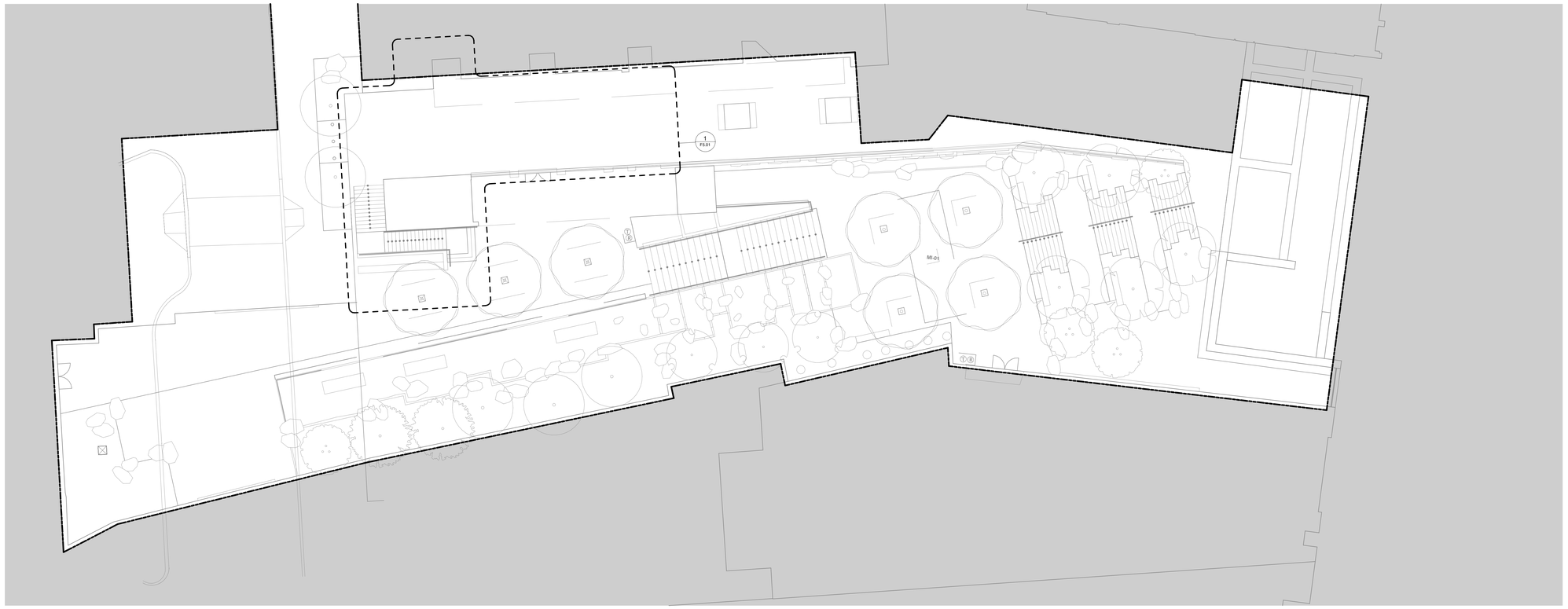

1 5 LOWER PASEO - FIRE PROTECTION PLAN
1" = 10'-0"

GENERAL NOTES

SHEET NOTES

KEY VALUE KEYNOTE TEXT

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

MGAC
Owner's Rep
MGAC
730 11th St NW
Washington, DC 20001
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OJB
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711 Louisiana Street,
Suite 111
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ARUP
MEP, Lighting, Security, and Acoustics Consultant
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10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.783.2787

DATUM ENGINEERS
Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

PAPE-DAWSON ENGINEERS
Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

PARRA&Co
Civil Engineer
Parra & Co
110 E. Houston Street, Floor 7
San Antonio, TX 78205
Tel 210.819.4848

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

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ENGINEER LICENSE NUMBER: 88798 (TEXAS)

Project Name
ALAMO SITE - AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
FIRE PROTECTION - AREA 5 - FLOOR PLAN - LOWER PASEO

Scale
1" = 10'-0"

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GENERAL NOTES

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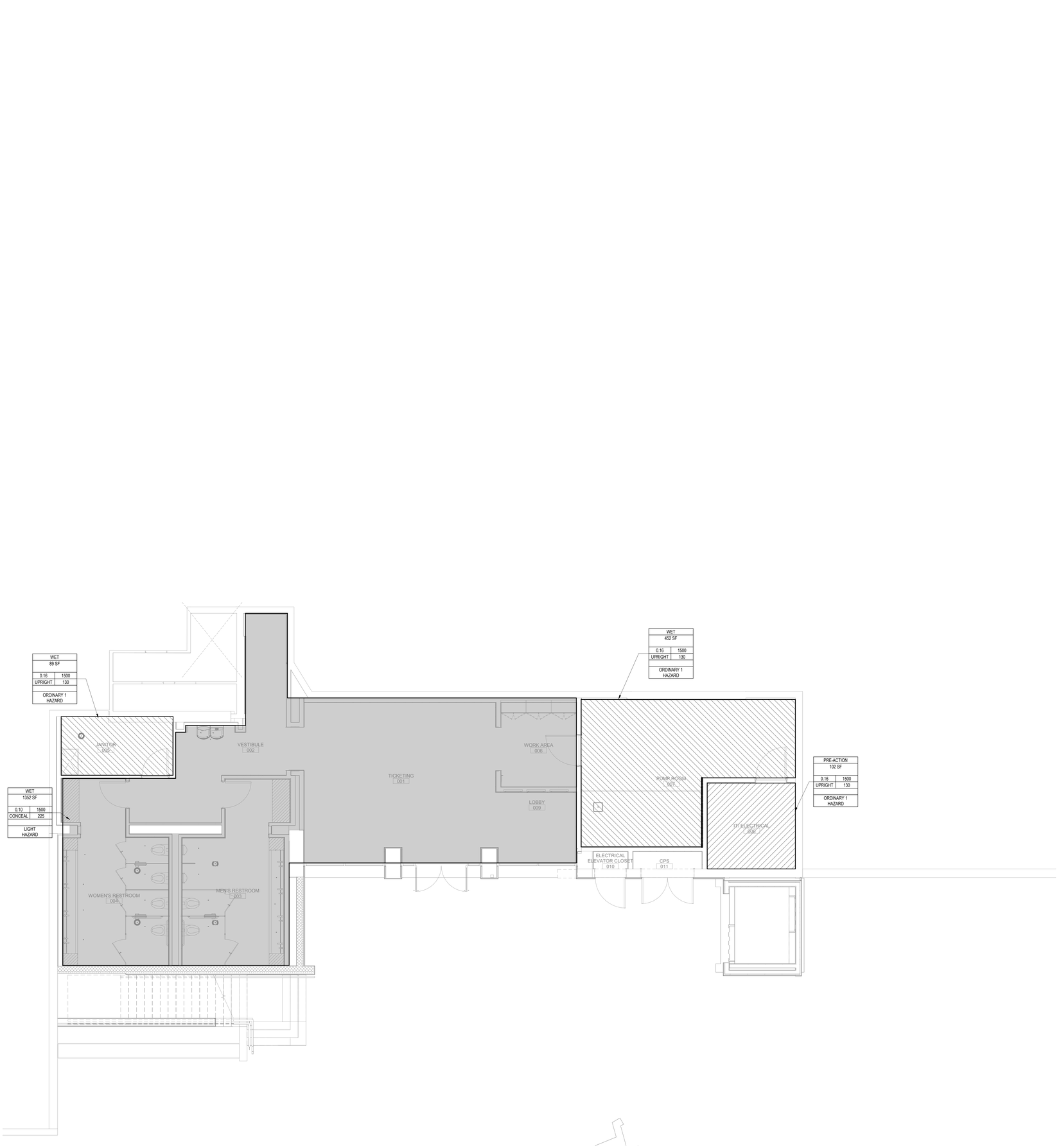

1 RIVER LEVEL - FIRE PROTECTION PLAN - TICKETING CENTER
1/4" = 1'-0"

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

Owner's Rep
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

Landscape Architect
OJB
711 Louisiana Street, Suite 111
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AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

Seal / Signature

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	10/26/2023	100% DESIGN DEVELOPMENT
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ISSUED DATE: 06/06/2024
ENGINEER / DESIGNER: TODD STONEBRAKER
ENGINEER LICENSE NUMBER: 88798 (TEXAS)

Project Name
ALAMO SITE - AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
FIRE PROTECTION - AREA 5 - DIAGRAMS, PART PLANS

Scale
1/4" = 1'-0"

F5.01

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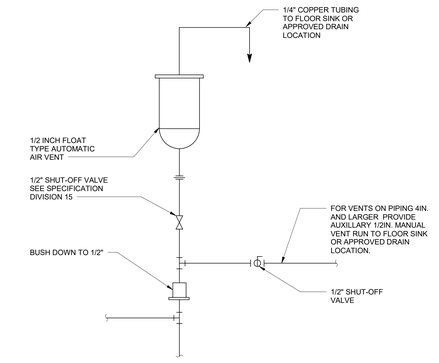
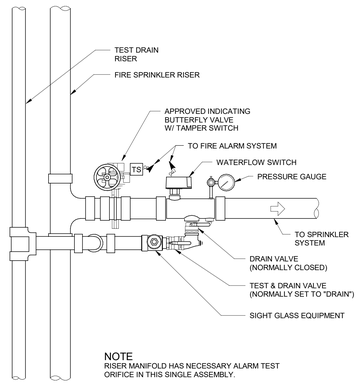
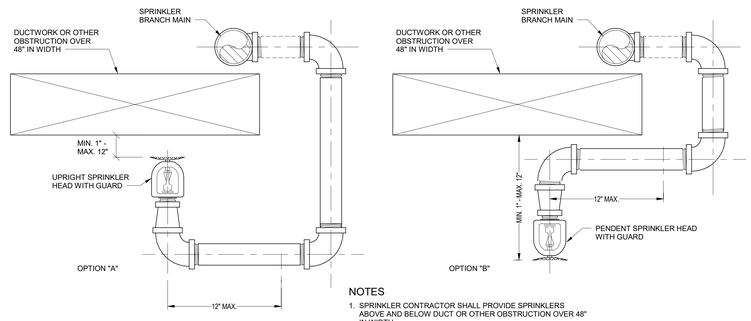


4 AUTOMATIC AIR VENT ASSEMBLY
NTS



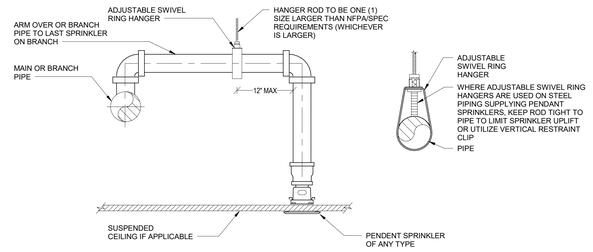
NOTE
RISER MANIFOLD HAS NECESSARY ALARM TEST ORIFICE IN THIS SINGLE ASSEMBLY.

3 SPRINKLER FLOOR CONTROL ASSEMBLY
NTS



NOTES
1. SPRINKLER CONTRACTOR SHALL PROVIDE SPRINKLERS ABOVE AND BELOW DUCT OR OTHER OBSTRUCTION OVER 48" IN WIDTH.
2. SPRINKLER CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES.

2 TYPICAL SPRINKLER HEAD ABOVE AND BELOW DUCTWORK
NTS



1 PENDENT SPRINKLERS
NTS

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

Owner's Rep
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

Landscape Architect
OJB
711 Louisiana Street, Suite 111
Houston, TX 77002
Tel 713.529.9919

MEP, Lighting, Security, and Acoustics Consultant
Arup - Texas Firm Reg. #1990
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.783.2787

Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

Civil Engineer
Parra & Co
110 E. Houston Street, Floor 7
San Antonio, TX 78205
Tel 210.819.4848

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

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Project Name
ALAMO SITE - AREA 5 - LOWER PASEO

Project Number

Description
FIRE PROTECTION - AREA 5 - DETAILS

Scale
NTS

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GENERAL NOTES

GENERAL CONTRACTOR/CONSTRUCTION MANAGER NOTES:

1.) GENERAL CONTRACTOR/CONSTRUCTION MANAGER IS RESPONSIBLE TO ENSURE THAT ALL DIVISIONS AND TRADES ARE AWARE OF WORK REQUIRED TO SUPPORT THE INSTALLATION OF RELATED SYSTEMS AND SUB-SYSTEMS. CONTRACTORS ARE RESPONSIBLE TO REVIEW ALL RELATED SPECIFICATIONS AND DRAWINGS.

2.) COORDINATE WITH ELECTRICAL DRAWINGS FOR PATHWAYS THAT MAY BE SHARED.

ELECTRICAL CONTRACTOR NOTES:

1.) THE ELECTRICAL CONTRACTOR SHALL FURNISH AND PROVIDE THE FOLLOWING FOR COMMUNICATIONS CABLING: CONDUITS, PULL BOXES AND/OR HANDHOLES. REFER TO THE ELECTRICAL AND COMMUNICATIONS DETAIL DRAWINGS.

A.) DATA SERVICE BOXES FOR COMMUNICATIONS NOT HOUSED IN A BACK BOX SHALL BE A FLUSH SURFACE PORT MOUNTED BOX WITHIN A HOUSING.

B.) DATA SERVICE BOXES FOR COMMUNICATIONS SHALL BE A FLUSH 4" SQ WEATHERPROOF BOX (2⅛" MIN) AND A 1"ø CONDUIT.

C.) FLOOR BOXES FOR DATA, AND POWER SHALL HAVE ONE(1) 1"ø CONDUITS PROVIDED FOR COMMUNICATIONS IN ADDITION TO POWER AND AV REQUIREMENTS.

D.) BOXES FOR WIRELESS DEVICES SHALL BE A 4"SQ WEATHERPROOF BOX (2⅛" MIN) (TYP).

2.) CONTRACTOR SHALL PROVIDE RACEWAY INSTALLATION IN A MANNER THAT WILL PROTECT ALL DATA CABLING FROM MECHANICAL DAMAGE. INSTALL CONDUITS FOR COMMUNICATIONS WITH LONG RADIUS BENDS, BUSHED ENDS THAT ARE GROUNDED AND BONDED AS PER CODES AND STANDARDS.

3.) CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND COMMUNICATIONS TRADE ON CONDUIT ROUTING FOR COMMUNICATIONS CABLES PRIOR TO INSTALLATION OF PATHWAYS.

4.) CONTRACTOR SHALL INSTALL A TIED OFF NYLON PULL STRING IN ALL CONDUITS.

5.) CONDUITS SHALL NOT EXCEED 180° OF BENDS BETWEEN PULL POINTS. INSTALL PERMANENTLY ACCESSIBLE PULL BOXES AS REQUIRED TO MEET THIS REQUIREMENT. DO NOT CHANGE DIRECTION OR BEND WITHIN A JUNCTION BOX OR PULL BOX.

6.) GROUNDING AND BONDING:

A.) BUILDING GROUNDING SYSTEM BY ELECTRICAL CONTRACTOR.

B.) ALL PATHWAYS INSTALLED FOR COMMUNICATIONS SHALL BE BONDED TO COMMUNICATION GROUND BUS BARS.

C.) REFER TO ELECTRICAL SERIES DRAWINGS AND SPECIFICATIONS FOR OTHER COMMUNICATION GROUNDING REQUIREMENTS AND INFO ON INSTALLATION OF MATERIALS AND HARDWARE.

D.) BUS BARS SHALL BE PRE-DRILLED WITH STANDARD NEMA BOLT HOLE SIZING & SPACING FOR CONNECTIONS OF THE BONDING CONDUCTORS TO THE BUSBAR.

COMMUNICATION NOTES

1.) THE TELECOMMUNICATIONS CONTRACTOR SHALL REVIEW ALL CONSTRUCTION DOCUMENTS FOR RELATED SECTIONS, WHICH MAKE UP THE CONTRACT DOCUMENTS AND SHALL COORDINATE ALL COMMUNICATIONS WORK ON THE COMMUNICATIONS PLANS WITH ANY COMMUNICATIONS SECTIONS OF RELATED DRAWINGS AND SPECIFICATIONS.

A.) STRUCTURED CABLING REQUIREMENTS FOR THE PROJECT ARE THE RESPONSIBILITY OF THE COMMUNICATIONS CABLING CONTRACTOR UNLESS OTHERWISE NOTED. COORDINATE WITH ALL TRADES THAT APPLY.

2.) TELECOMMUNICATIONS CONTRACTOR, CABLING CONTRACTOR, OR COMMUNICATIONS CONTRACTOR SHALL HERE AFTER BE REFERRED TO AS CONTRACTOR UNLESS OTHERWISE NOTED.

3.) CONTRACTOR SHALL PROVIDE ALL MATERIALS, COMPONENTS, TOOLS, AND LABOR NECESSARY TO COMPLETE THIS INFRASTRUCTURE INSTALLATION.

4.) ALL COMMUNICATIONS CABLING PATHWAYS OUTSIDE OF COMMUNICATIONS ROOMS BY ELECTRICAL CONTRACTOR.

COMMUNICATIONS CABLING:

1.) PROVIDE ALL NECESSARY MEANS TO PROTECT ALL COPPER/FIBER CABLING AND JACK/PORTS FROM MECHANICAL DAMAGE AND DUST DURING CONSTRUCTION.

2.) CABLING CONTRACTOR SHALL CONFIRM ALL CABLE LENGTHS PRIOR TO BID AND ROUGH-IN

GROUNDING AND BONDING:

1.) CONTRACTOR SHALL BOND ALL METALLIC COMPONENTS TO BUSBAR IN THE FOLLOWING MANNER:

A.) BOND/STRAP ALL LADDER RACKS TO ADJACENT SECTIONS WITH A STRANDED BONDING COPPER CONDUCTOR. INSTALL A BONDING CONDUCTOR FROM BUSBAR TO LADDER RACKS.

B.) BONDING SHALL BE IN AN APPROVED MANNER.

C.) DISSIMILAR METALS BONDED TO EACH OTHER AND APT TO CORRODE IN NORMAL ENVIRONMENTAL CONDITIONS SHALL BE SEPARATED BY A CONDUCTIVE MATERIAL SPACER TO PREVENT CORROSION. REFER TO SPECIFICATIONS FOR OTHER GROUNDING REQUIREMENTS.

FIRESTOPPING:

1.) COORDINATE ANY AND ALL FIRESTOPPING WITH THE GENERAL CONTRACTOR BEFORE PROCEEDING WITH ANY WORK INVOLVING FIRESTOPPING.

2.) ALL FIRESTOPPING SHALL CONFORM TO THE SPECIFICATIONS AND RECOMMENDATIONS OF THERMAL AND MOISTURE PROTECTION ON FIRESTOPPING OF THROUGH PENETRATION SYSTEMS IN THE CONSTRUCTION SPECIFICATIONS DOCUMENT.

3.) SOLUTIONS AND SHOP DRAWINGS/SUBMITTALS FOR FIRE STOP MATERIALS AND SYSTEMS SHALL BE PRESENTED TO THE GENERAL CONTRACTOR FOR WRITTEN APPROVAL OF MATERIAL & SYSTEMS PRIOR TO PURCHASE AND INSTALLATION. ALL MATERIALS AND SYSTEMS SHALL BE COMPLETE, UL LISTED FOR INTENDED INSTALLATION, AND PROVIDE APPROPRIATE RATING AT THE COMPLETION OF JOB.

4.) SEAL ALL PENETRATIONS THROUGH FIRE-RATED BARRIERS (CONDUITS, SLEEVES, SLOTS, CHASES) CREATED BY OR MADE FOR OR ON THE BEHALF OF THE TELECOMMUNICATIONS CONTRACTOR TO PREVENT THE PASSAGE OF SMOKE, FIRE, TOXIC GAS, OR WATER THROUGH PENETRATIONS.

LEGEND

#07	DATA INFORMATION OUTLET. NUMBER(#) DENOTES QUANTITY OF CABLES.
10.5	WALL DATA OUTLET FOR CAMERA.
	DATA OUTLET FOR WIRELESS ACCESS POINT (WAP) CONNECTIVITY.

ABBREVIATIONS

BAS:	BUILDING AUTOMATION SYSTEM
BET:	BUILDING ENTRANCE TERMINAL
DIV 01:	GENERAL REQUIREMENTS
DIV 07:	THERMAL & MOISTURE PROTECTION
DIV 23:	HEATING, VENTILATING, AND AIR-CONDITIONING
DIV 25:	INTEGRATED AUTOMATION
DIV 26:	ELECTRICAL
TR:	TELECOMMUNICATIONS ROOM
ER:	EQUIPMENT ROOM
TBB:	TELECOM BONDING BACKBONE
TBC:	TELECOM BONDING CONDUCTOR
SBB:	SECONDARY BONDING BUSBAR
TMBC:	TELECOM MAIN BONDING CONDUCTOR
PBB:	PRIMARY BONDING BUSBAR
TMH:	TELECOMMUNICATIONS MANHOLE
UTP:	UNSHIELDED TWISTED PAIR
WAP:	WIRELESS ACCESS POINT
SIM:	SIMILAR

DRAWING LIST

T0.001	LEGEND AND NOTES – COMMUNICATIONS
T0.100	AREA 5 – LOWER PASEO SITE PLAN – MAJOR PATHWAY – COMMUNICATIONS
T0.110	AREA 5 – LOWER PASEO SITE PLAN – MINOR PATHWAY – COMMUNICATIONS
T4.001	GENERAL DETAILS – COMMUNICATIONS

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

ARUP
MEP, Lighting, Security, and Acoustics Consultant
ARUP
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.782.2787

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

OJB
Landscape Architect
OJB
711 Louisiana Street,
Suite 111
Houston, TX 77002
Tel 713.529.9919

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

DATUM ENGINEERS
Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Parra & Co
110 E. Houston Street, Floor 7
San Antonio, TX 78205
Tel 210.819.4848

MGAC
Development Manager
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

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	06/13/2024	50% CONSTRUCTION DOCUMENTS

Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
LEGEND AND NOTES - COMMUNICATIONS

Scale
NO SCALE

T0.001

DATACOM DESIGN GROUP
www.datacomdesigngroup.com
T: (210) 695-6455 F: (210) 698-6468

Who: jpatts
When: 21-Dec-2023, 04:25pm
Where: D:\Datacom Design Group\Projects\~ARR Site Landscape Plan-Datacom-Communications\T0.001.dwg
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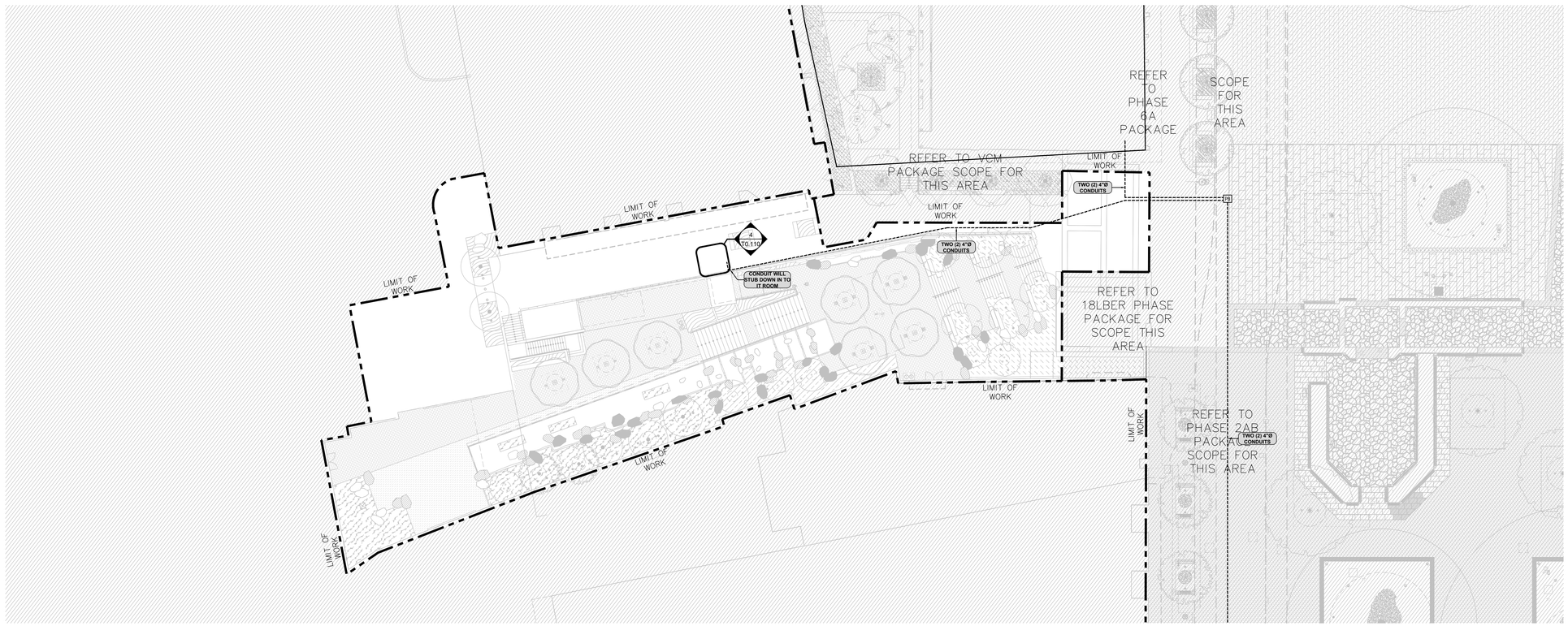

1 AREA 5 - LOWER PASEO SITE PLAN - MAJOR PATHWAY - COMMUNICATIONS

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

REF: /

GENERAL NOTES

1.) ALL OSP TELECOMMUNICATION CONDUITS SHALL BE SCHEDULE 40 OR SCHEDULE 80 RIGID NONMETALLIC CONDUIT, POLYVINYL CHLORIDE (PVC) AND MUST MEET THE REQUIREMENTS OF NEMA TC 6.

2.) ALL OSP CONDUITS AND INNER DUCT, USED AND SPARE, SHALL BE PLUGGED WITH WATERTIGHT PLUGS AT BOTH ENDS TO PREVENT THE INTRUSION OF WATER, GASES, AND RODENTS THROUGHOUT THE CONSTRUCTION PROJECT.

3.) ALL OSP CONDUITS SHALL HAVE PULL LINES RATED AT A MINIMUM OF 90 KG (200 LB.) PULLING TENSION INSTALLED.

4.) ALL OSP CONDUITS MUST BE TESTED WITH A MANDREL TO PROVE COMPLIANCE WITH THE SWEEP RADIUS REQUIREMENTS THROUGHOUT THE CONDUIT RUN WITHIN FIVE DAYS OF RELEASING THE CONDUIT FOR THE INSTALLATION OF CABLE FOR PROVE CONDUIT IS DRY AND VOID OF ANY DEBRIS.

5.) ALL CAMPUS DISTRIBUTION MUST BE BURIED A MINIMUM OF 24 INCHES BELOW GRADE.

6.) ALL COPPER CABLING OUTSIDE OF BUILDING SHALL BE OSP RATED AND WILL REQUIRE LIGHTING PROTECTION AT BOTH ENDS.

7.) PROVIDE/INSTALL TWO (2) 3", 3-CELL FABRIC INNERDUCT IN ALL 4" CONDUITS.

SHEET NOTES

1. 6-STRANDS OF OSP RATED SINGLE MODE FIBER FROM THE GIFT SHOP MDF OUT TO EACH OUTDOOR TELECOM CABINET.
2. PROPOSED LOCATION OF EXTERIOR ENVIRONMENTALLY CONTROLLED EQUIPMENT TELECOM CABINET.
3. PULL BOX. (SIZE AS INDICATED)

LEGEND

PB PULL BOX.

KEY PLAN

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

ARUP
MEP, Lighting, Security, and Acoustics Consultant
ARUP
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.782.2787

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

OJB
Landscape Architect
OJB
711 Louisiana Street,
Suite 111
Houston, TX 77002
Tel 713.529.9919

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

DATUM ENGINEERS
Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Parra & Co
110 E. Houston Street. Floor 7
San Antonio, TX 78205
Tel 210.819.4848

MGAC
Development Manager
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

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Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
AREA 5 - LOWER PASEO SITE PLAN - MAJOR PATHWAY - COMMUNICATIONS

Scale
1/16" = 1'-0" Ref North

T0.100

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www.datacomdesigngroup.com
JP: (210) 699-6455 F: (210) 699-6468

Who: jpotts
When: 01 Jun 2024 - 04:32pm
Where: J:\Datacom Design Group\Projects\--ASR Site Landscape Plan--Datacom-Communications\T0.100.dwg
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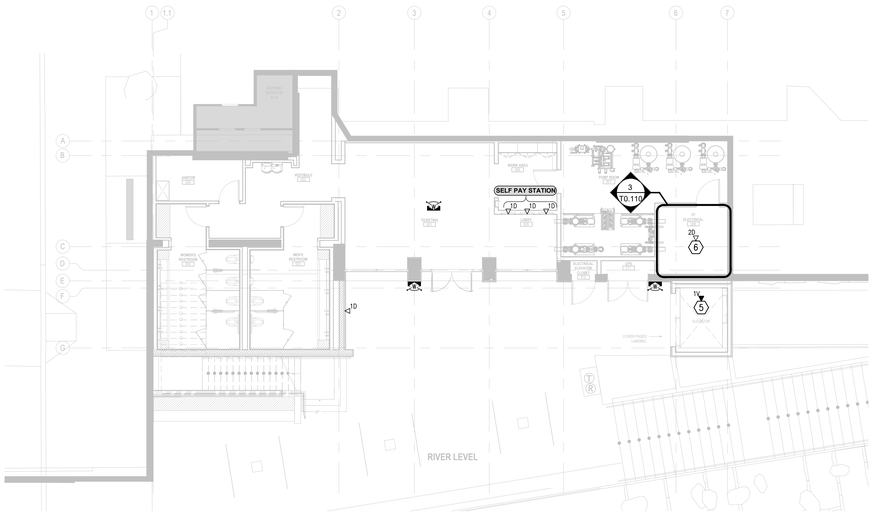
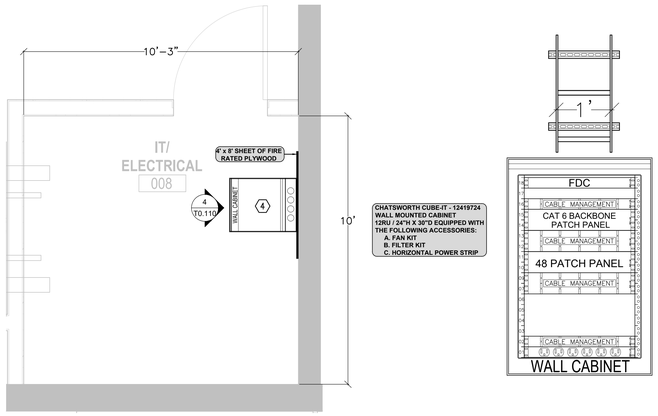


2 CONSTRUCTION PLAN - RIVER LEVEL

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

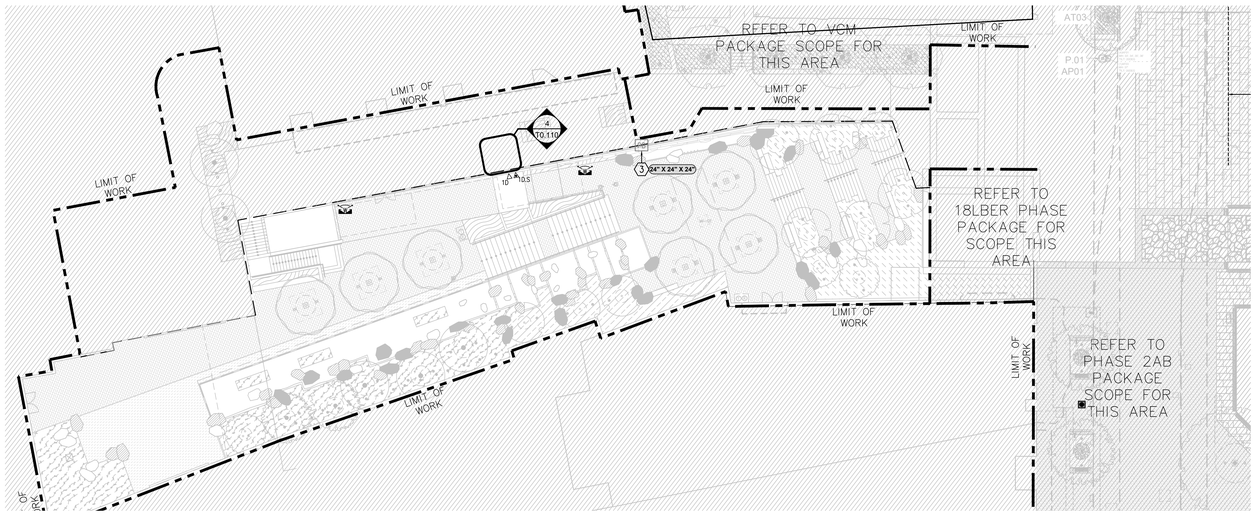


3 IT/ELECTRICAL 008 - PLAN VIEW

SCALE: 1/2" = 1'-0"

4 WALL CABINET ELEVATION

SCALE: NTS



1 AREA 5 - LOWER PASEO SITE PLAN - MINOR PATHWAY - COMMUNICATIONS

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

REF: /

GENERAL NOTES

1.) PROVIDE/INSTALL TWO (2) 3", 3-CELL FABRIC INNERDUCT IN ALL 4" CONDUITS.

2.) PROVIDE/INSTALL CATEGORY 6A, OSP RATED CABLING FOR EACH LOCATION IDENTIFIED. ROUTE TO NEAREST TELECOM CABINET.

3.) ALL COPPER CABLING OUTSIDE OF BUILDING SHALL REQUIRE LIGHTING PROTECTION AT BOTH ENDS

4.) PROVIDE/INSTALL TWO (2) 2" CONDUIT FOR EVERY 6D LOCATIONS IDENTIFIED AND ROUTE TO NEAREST PULL BOX AND CONTINUING TO THE NEAREST TELECOM CABINET.

5.) UTILIZE NEMA 4x RATED BOXES FOR ALL TECHNOLOGY PATHWAY.

SHEET NOTES

1. COMMUNICATIONS CONDUIT. (SIZE AS INDICATED ON LEGEND)
2. NEMA RATED BOX FOR COMBINED UTILITIES OF POWER, DATA AND AUDIO VISUAL. REFER TO ELECTRICAL DRAWINGS FOR DEVICE TYPE.
3. PULL BOX. (SIZE AS INDICATED)
4. WALL MOUNTED CABINET MOUNTED AT 72" AFF.
5. VOICE CABLING FOR CAB PHONE. COORDINATE WITH ELEVATOR VENDOR FOR CABLING TERMINATION.
6. DATA CONNECTIVITY TO SERVE BAS/BMS. REFERENCE DIV 25. COORDINATE WITH DIV 23/26 FOR EXACT LOCATION.

LEGEND

CAB CUBE-IT WALL MOUNTED CABINET.

PB PULL BOX.

KEY PLAN

ALAMO TRUST INC.

317-323 Alamo Plaza
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San Antonio, TX 78205

Gensler
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Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

ARUP
MEP, Lighting, Security, and Acoustics Consultant
ARUP
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.782.2787

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

OJB
Landscape Architect
OJB
711 Louisiana Street,
Suite 111
Houston, TX 77002
Tel 713.529.9919

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
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Tel 512.478.6001

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Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Parra & Co
110 E. Houston Street, Floor 7
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Description
AREA 5 - LOWER PASEO SITE PLAN - MINOR PATHWAY - COMMUNICATIONS

Scale
1/16" = 1'-0" Ref North

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DATACOM DESIGN GROUP
www.datacomdesigngroup.com
P: (210) 698-5405 F: (210) 698-6468

Who: jjohns
When: Jun 26, 2024 - 04:26pm
Where: J:\Projects\Alamo Trust Group\Projects\+ASR Site Landscape Plan-+Datacom-Communication\T0.110.dwg
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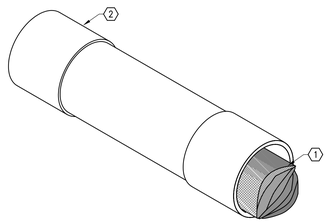
KEYED NOTES:

1. TWO(2) 3" 3 CELL MAXCELL FABRIC INNERDUCTS; TOTAL OF 6 CELLS FOR EACH OF THE OSP 4" CONDUITS INSTALLED (BY DIV. 26).
2. PLUG ALL CONDUITS BOTH ENDS WITH MAXCELL PLUGS (BY DIV. 26).



1 MAXCELL FABRIC INNERDUCT AND PLUG
Not to Scale

KEYED NOTES:

1. REFERENCE CIVIL FOR TYPE/DETAIL OF COVER FILL.
2. ADD #2/0 AWG BARE STRANDED COPPER GROUND WIRE ALONG ENTIRE LENGTH OF DUCT BANK.
3. TRENCH.
4. 4" PVC CONDUIT WITH MAXCELL INNERDUCT. CONTRACTOR TO INSTALL PER MANUFACTURER'S RECOMMENDATIONS (TYP).
5. MIN. 2" PLASTIC STACK/SPACERS.
6. COORDINATE DEPTH OF CONDUITS WITH CIVIL.

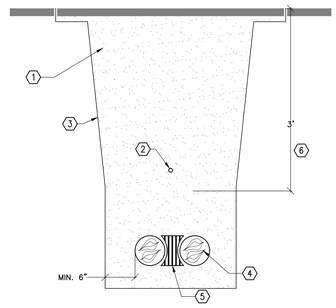
GENERAL NOTES:

1.) PROVIDE HIGH IMPACT TYPE EB PVC CONDUIT.

2.) CONTRACTOR TO REQUEST TRAINING FROM MANUFACTURE ON INSTALLATION PROCEDURES FOR MAXCELL FABRIC INNERDUCT IF NOT FAMILIAR WITH PRODUCT.

3.) COORDINATE WITH CIVIL FOR EXACT REQUIREMENTS REGARDING SURFACE WHILE TRENCHING.

4.) ALL DIMENSIONS ARE APPROXIMATE. COORDINATE DEPTH OF CONDUITS WITH CIVIL.

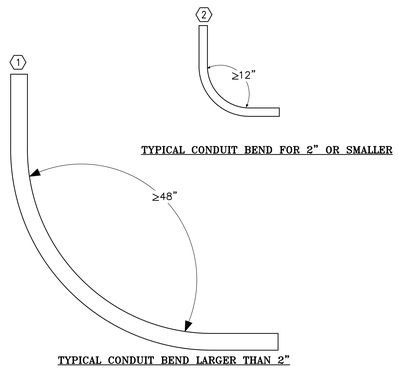


2 TYPICAL CONSTRUCTION FOR TWO CONDUIT DUCT BANK
Not to Scale

3 NOT USED
Not to Scale

KEYED NOTES:

1. ALL BENDS MUST BE LONG FACTORY SWEEPING BENDS WITH A RADIUS NOT LESS THAN 10 TIMES INTERNAL DIAMETER OF CONDUIT.
2. ALL BENDS MUST BE SWEEPING BENDS WITH A RADIUS NOT LESS THAN 6 TIMES INTERNAL DIAMETER OF CONDUIT.



4 LONG RADIUS FACTORY SWEEPS
Not to Scale

5 NOT USED
Not to Scale

6 NOT USED
Not to Scale

7 NOT USED
Not to Scale

8 NOT USED
Not to Scale

9 NOT USED
Not to Scale

ALAMO TRUST INC.
317-323 Alamo Plaza
518 E. Houston Street
San Antonio, TX 78205

Gensler
229 E. Houston St.
Suite 200
San Antonio, TX 78205
United States
Tel 210.222.8059

Client
The Texas General Land Office
1700 Congress Ave.
Austin, TX 78701
Tel 1.800.998.4456
Fax 512.463.5001

Alamo Trust
300 Alamo Plaza, Suite 200
San Antonio, TX 78205
Tel 210.225.1391

ARUP
MEP, Lighting, Security, and Acoustics Consultant
ARUP
10370 Richmond Ave., Ste 475
Houston, TX 77042
Tel 713.782.2787

Civil Engineer
Pape-Dawson Engineers
2000 NW Loop 410
San Antonio, TX 78213
Tel 210.375.9000

OJB
Landscape Architect
OJB
711 Louisiana Street,
Suite 111
Houston, TX 77002
Tel 713.529.9919

AV/IT/Security
DataCom Design Group, LLC.
7600 Burnet Rd #350,
Austin, TX 78757
Tel 512.478.6001

DATUM ENGINEERS
Structural Engineer
Datum Engineers, Inc.
311 Sixth Street
San Antonio, TX 78215
Tel 210.858.2880
Fax F-2819

Civil Engineer
Parra & Co
110 E. Houston Street, Floor 7
San Antonio, TX 78205
Tel 210.819.4848

MGAC
Development Manager
MGAC
730 11th St NW
Washington, DC 20001
Tel 512.828.7434

Seal / Signature

△ Date	Description
05/19/2023	50% SCHEMATIC DESIGN
08/10/2023	100% SCHEMATIC DESIGN
10/26/2023	100% DESIGN DEVELOPMENT
06/13/2024	50% CONSTRUCTION DOCUMENTS

Project Name
ALAMO SITE: AREA 5 - LOWER PASEO

Project Number
122.0076.500

Description
GENERAL DETAILS - COMMUNICATIONS

Scale
NO SCALE

T4.001

DATACOM DESIGN GROUP
www.datacomdesign.com | austin | houston | san antonio
P: (210) 698-4455 F: (210) 698-4488

Who: joshs
When: 6/13/2024, 1:41:24pm
Where: D:\Datacom Design Group\Projects\~ASR Site Landscape Plan~Datacom-Communications\T4.001.dwg
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