ABHA PLAZA

403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

DESIGN TEAM

ARCHITECTS

psrbb ARCHITECTS
strongers by design
www.psrbbarch.com

1810 Wyoming ave
el paso, tx 79903
ph:915.534.8082
fax:915.534.8083

CHARLES MAIS
1810 WYOMING AVE.
EL PASO, TEXAS 79903-3407
PHONE: 915-534-8082
EMAIL: CM3@PSRBBCOMMGROUP.COM

KERE INC.
GENERAL CONTRACTOR CONSTRUCTION MANAGER

7307 REMCON CIRCLE, SUITE 101
EL PASO, TEXAS 79912
PHONE: 915-585-3355
FAX: 915-833-9195

CIVIL

SITEWORK ENGINEERING L.L.C.
TX REG. # F-14667
444 EXECUTIVE CENTER BLVD., SUITE 134 – EL PASO, TX. – 79902
PHONE (915) 351-8033 – FAX (915) 351-8055

LANDSCAPE

Essential Landscaping & Sprinklers, LLC.

LANDSCAPING & IRRIGATION:
ESSENTIAL LANDSCAPING & SPRINKLERS, LLC
5505 ROSA AVE.
EL PASO, TX 79905
OFF: 915-533-4111
FAX: 915-533-1222

STRUCTURAL

STUBBS ENGINEERING, INC.
200 BARLETT DR.,
SUITE 100
EL PASO, TX 79912
PH: (915) 228-3488
TBPE FIRM NO.:
F-12826

MECHANICAL / PLUMBING

FLUID SYSTEMS, INC.
CONSULTING MECHANICAL ENGINEERS
1510 N. ZARAGOZA SUITE B-13 • EL PASO, TEXAS 79936 • (915) 856-9420

ELECTRICAL

ALPHA ENGINEERING, INC.
ENGINEERING CONSULTANTS

1818 E. RIO GRANDE AVE.
EL PASO, TX. 79902
(915) 838-9900

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MATERIAL LEGEND

- LANDSCAPING
- EARTH / COMPACTED FILL
- TOPSOIL
- COMPACTED BASE
- CONCRETE (SECTION)
- CONCRETE (PLAN / ELEVATION)
- STONE
- CONCRETE MASONRY UNIT (C.M.U.)
- BRICK VENEER
- MARBLE (SECTION)
- MARBLE (ELEVATION)
- STEEL
- FINISH LUMBER
- CONTINUOUS WOOD FRAMING
- WOOD BLOCKING
- PLYWOOD
- PARTICLE BOARD
- GLASS (ELEVATION)
- BATT INSULATION
- BATT INSULATION (FACED)
- RIGID INSULATION
- EXTERIOR INSULATION FINISH SYSTEM (E.I.F. SECTION)
- EXTERIOR INSULATION FINISH SYSTEM (E.I.F. ELEVATION)
- ACOUSTICAL CEILING TILE
- GYPSUM BOARD
- SHEATHING
- PLASTER ON METAL LATH
- MILLWORK (PLAN. DASHED LINE INDICATED CABINETS ABOVE)

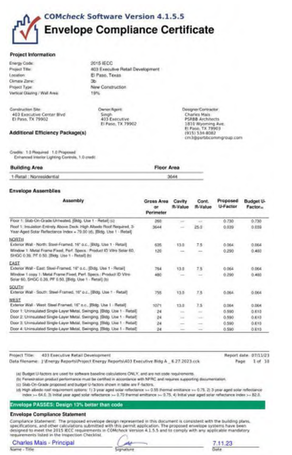
PROJECT LOCATION: 403 EXECUTIVE CENTER BLVD, EL PASO, TEXAS 79902

LOCATION MAP

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

SYMBOL LEGEND

- PROPERTY LINE
- CHAIN LINK FENCING
- EXISTING SPOT ELEVATION
- NEW SPOT ELEVATION
- EXISTING CONTOUR (101)
- NEW CONTOUR (101)
- STORM WATER FLOW DIRECTION
- ELEVATION OR LEVEL LONE (DATUM)
- MATCH LINE (SHADED PORTION INDICATES SIDE CONSIDERED)
- COLUMN GRID (A)
- ROOM NUMBER (100)
- DOOR NUMBER (20)
- WINDOW TYPE (A)
- REVISION NUMBER (8)
- PROJECT NORTH
- TRUE NORTH
- INDICATED DETAIL NUMBER (1 / A-1)
- SHEET WHERE DETAIL IS LOCATED
- INDICATED ELEVATION NUMBER (1 / A-1)
- SHEET WHERE ELEVATION IS LOCATED
- INDICATED SECTION NUMBER (1 / A-1)
- SHEET WHERE SECTION IS LOCATED



COMcheck Software Version 4.1.5.5

Envelope Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	403 Executive Retail Development
Location:	El Paso, Texas
Climate Zone:	3b
Project Type:	New Construction
Vertical Glazing / Wall Area:	19%

Construction Site: 403 Executive Center Blvd, El Paso, TX 79902 — Owner/Agent: Singh, 403 Executive, El Paso, TX 79902 — Designer/Contractor: Charles Mais, PSRB Architects, 1810 Wyoming Ave, El Paso, TX 79903, (915) 534-8082, cm@psrbcommgroup.com

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
Enhanced Interior Lighting Controls, 1.0 credit

Building Area	Floor Area
1 Retail : Nonresidential	3044

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Floor 1: Slab-On-Grade Unheated, [Bldg. Use 1 - Retail] (c)	260	---	---	0.730	0.730
Roof 1: Insulation Entirely Above Deck, High Albedo Roof Required, 3-Year Aged Solar Reflectance Index = 70.00 (d), [Bldg. Use 1 - Retail]	3044	---	25.0	0.039	0.039
NORTH					
Exterior Wall - North: Steel-Framed, 16" o.c., [Bldg. Use 1 - Retail]	635	13.0	7.5	0.064	0.064
Window 1: Metal Frame Fixed, Perf. Specs.: Product ID Vitro Solar 60, SHGC 0.39, PF 0.50, [Bldg. Use 1 - Retail] (b)	120	---	---	0.290	0.460
EAST					
Exterior Wall - East: Steel-Framed, 16" o.c., [Bldg. Use 1 - Retail]	764	13.0	7.5	0.064	0.064
Window 1 copy 1: Metal Frame Fixed, Perf. Specs.: Product ID Vitro Solar 60, SHGC 0.39, PF 0.50, [Bldg. Use 1 - Retail] (b)	480	---	---	0.290	0.460
SOUTH					
Exterior Wall - South: Steel-Framed, 16" o.c., [Bldg. Use 1 - Retail]	755	13.0	7.5	0.064	0.064
WEST					
Exterior Wall - West: Steel-Framed, 16" o.c., [Bldg. Use 1 - Retail]	1071	13.0	7.5	0.064	0.064
Door 1: Uninsulated Single-Layer Metal, Swinging, [Bldg. Use 1 - Retail]	24	---	---	0.590	0.610
Door 2: Uninsulated Single-Layer Metal, Swinging, [Bldg. Use 1 - Retail]	24	---	---	0.590	0.610
Door 3: Uninsulated Single-Layer Metal, Swinging, [Bldg. Use 1 - Retail]	24	---	---	0.590	0.610
Door 4: Uninsulated Single-Layer Metal, Swinging, [Bldg. Use 1 - Retail]	24	---	---	0.590	0.610

Project Title: 403 Executive Retail Development — Report date: 07/11/23
Data Filename: .../Energy Reports/Project Energy Reports/403 Executive Bldg A_ 6.27.2023.cck — Page: 1 of 10

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
(c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.
(d) High albedo roof requirement options: 1) 3 year aged solar reflectance >= 0.55 thermal emittance >= 0.75, 2) 3 year aged solar reflectance Index >= 64.0, 3) Initial year aged solar reflectance >= 0.75 thermal emittance >= 0.75, 4) Initial year aged solar reflectance Index >= 82.0.

Envelope PASSES: Design 13% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Charles Mais - Principal — Name / Title — Signature — 7.11.23 — Date

COMCHECK BLDG A

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

COMcheck Software Version 4.1.5.5

Envelope Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	403 Executive Retail Development
Location:	El Paso, Texas
Climate Zone:	3b
Project Type:	New Construction
Vertical Glazing / Wall Area:	19%

Construction Site: 403 Executive Center Blvd, El Paso, TX 79902 — Owner/Agent: Singh, 403 Executive, El Paso, TX 79902 — Designer/Contractor: Charles Mais, PSRB Architects, 1810 Wyoming Ave, El Paso, TX 79903, (915) 534-8082, cm@psrbcommgroup.com

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
Enhanced Interior Lighting Controls, 1.0 credit

Building Area	Floor Area
1 Retail : Nonresidential	4044

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Floor 1: Slab-On-Grade Unheated, [Bldg. Use 1 - Retail] (c)	260	---	---	0.730	0.730
Roof 1: Insulation Entirely Above Deck, High Albedo Roof Required, 3-Year Aged Solar Reflectance Index = 70.00 (d), [Bldg. Use 1 - Retail]	4044	---	25.0	0.039	0.039
NORTH					
Exterior Wall - North: Steel-Framed, 16" o.c., [Bldg. Use 1 - Retail]	764	13.0	7.5	0.064	0.064
EAST					
Exterior Wall - East: Steel-Framed, 16" o.c., [Bldg. Use 1 - Retail]	764	13.0	7.5	0.064	0.064
Window 1 copy 1: Metal Frame Fixed, Perf. Specs.: Product ID Vitro Solar 60, SHGC 0.39, PF 0.50, [Bldg. Use 1 - Retail] (b)	480	---	---	0.290	0.460
SOUTH					
Exterior Wall - South: Steel-Framed, 16" o.c., [Bldg. Use 1 - Retail]	635	13.0	7.5	0.064	0.064
Window 1: Metal Frame Fixed, Perf. Specs.: Product ID Vitro Solar 60, SHGC 0.39, PF 0.50, [Bldg. Use 1 - Retail] (b)	120	---	---	0.290	0.460
WEST					
Exterior Wall - West: Steel-Framed, 16" o.c., [Bldg. Use 1 - Retail]	1071	13.0	7.5	0.064	0.064
Door 1: Uninsulated Single-Layer Metal, Swinging, [Bldg. Use 1 - Retail]	24	---	---	0.590	0.610
Door 2: Uninsulated Single-Layer Metal, Swinging, [Bldg. Use 1 - Retail]	24	---	---	0.590	0.610
Door 3: Uninsulated Single-Layer Metal, Swinging, [Bldg. Use 1 - Retail]	24	---	---	0.590	0.610
Door 4: Uninsulated Single-Layer Metal, Swinging, [Bldg. Use 1 - Retail]	24	---	---	0.590	0.610

Project Title: 403 Executive Retail Development — Report date: 07/11/23
Data Filename: .../Energy Reports/Project Energy Reports/403 Executive Bldg B_ 6.27.2023.cck — Page: 1 of 10

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
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(d) High albedo roof requirement options: 1) 3 year aged solar reflectance >= 0.55 thermal emittance >= 0.75, 2) 3 year aged solar reflectance Index >= 64.0, 3) Initial year aged solar reflectance >= 0.75 thermal emittance >= 0.75, 4) Initial year aged solar reflectance Index >= 82.0.

Envelope PASSES: Design 13% better than code

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Charles Mais - Principal — Name / Title — Signature — 7.11.23 — Date

COMCHECK BLDG B

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

COMcheck Software Version 4.1.5.5

Envelope Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	403 Executive Retail Development
Location:	El Paso, Texas
Climate Zone:	3b
Project Type:	New Construction
Vertical Glazing / Wall Area:	22%

Construction Site: 403 Executive Center Blvd, El Paso, TX 79902 — Owner/Agent: Singh, 403 Executive, El Paso, TX 79902 — Designer/Contractor: Charles Mais, PSRB Architects, 1810 Wyoming Ave, El Paso, TX 79903, (915) 534-8082, cm@psrbcommgroup.com

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
Enhanced Interior Lighting Controls, 1.0 credit

Building Area	Floor Area
1 Retail : Nonresidential	3037

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Floor 1: Slab-On-Grade Unheated, [Bldg. Use 1 - Retail] (c)	260	---	---	0.730	0.730
Roof 1: Insulation Entirely Above Deck, High Albedo Roof Required, 3-Year Aged Solar Reflectance Index = 70.00 (d), [Bldg. Use 1 - Retail]	3037	---	25.0	0.039	0.039
NORTH					
Exterior Wall - North: Steel-Framed, 16" o.c., [Bldg. Use 1 - Retail]	913	13.0	7.5	0.064	0.064
Door 1: Uninsulated Single-Layer Metal, Swinging, [Bldg. Use 1 - Retail]	24	---	---	0.590	0.610
Door 2: Uninsulated Single-Layer Metal, Swinging, [Bldg. Use 1 - Retail]	24	---	---	0.590	0.610
Door 3: Uninsulated Single-Layer Metal, Swinging, [Bldg. Use 1 - Retail]	24	---	---	0.590	0.610
EAST					
Exterior Wall - East: Steel-Framed, 16" o.c., [Bldg. Use 1 - Retail]	635	13.0	7.5	0.064	0.064
Window 2: Metal Frame Fixed, Perf. Specs.: Product ID Vitro Solar 60, SHGC 0.39, PF 0.50, [Bldg. Use 1 - Retail] (b)	120	---	---	0.290	0.460
Window 3: Metal Frame Fixed, Perf. Specs.: Product ID Vitro Solar 60, SHGC 0.39, PF 0.50, [Bldg. Use 1 - Retail] (b)	635	13.0	7.5	0.064	0.064
Window 4: Metal Frame Fixed, Perf. Specs.: Product ID Vitro Solar 60, SHGC 0.39, PF 0.50, [Bldg. Use 1 - Retail] (b)	120	---	---	0.290	0.460
SOUTH					
Exterior Wall - South: Steel-Framed, 16" o.c., [Bldg. Use 1 - Retail]	579	13.0	7.5	0.064	0.064
Window 5: Metal Frame Fixed, Perf. Specs.: Product ID Vitro Solar 60, SHGC 0.39, PF 0.50, [Bldg. Use 1 - Retail] (b)	360	---	---	0.290	0.460

Project Title: 403 Executive Retail Development — Report date: 07/11/23
Data Filename: .../Energy Reports/Project Energy Reports/403 Executive Bldg C_ 6.27.2023.cck — Page: 1 of 10

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Charles Mais - Principal — Name / Title — Signature — 7.11.23 — Date

COMCHECK BLDG C

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

COMcheck Software Version 4.1.5.5

Envelope Compliance Certificate

Project Information

Energy Code:	2015 IECC
Project Title:	403 Executive Retail Development
Location:	El Paso, Texas
Climate Zone:	3b
Project Type:	New Construction
Vertical Glazing / Wall Area:	22%

Construction Site: 403 Executive Center Blvd, El Paso, TX 79902 — Owner/Agent: Singh, 403 Executive, El Paso, TX 79902 — Designer/Contractor: Charles Mais, PSRB Architects, 1810 Wyoming Ave, El Paso, TX 79903, (915) 534-8082, cm@psrbcommgroup.com

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
Enhanced Interior Lighting Controls, 1.0 credit

Building Area	Floor Area
1 Retail : Nonresidential	3037

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Floor 1: Slab-On-Grade Unheated, [Bldg. Use 1 - Retail] (c)	260	---	---	0.730	0.730
Roof 1: Insulation Entirely Above Deck, High Albedo Roof Required, 3-Year Aged Solar Reflectance Index = 70.00 (d), [Bldg. Use 1 - Retail]	4044	---	25.0	0.039	0.039
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Door 1: Uninsulated Single-Layer Metal, Swinging, [Bldg. Use 1 - Retail]	24	---	---	0.590	0.610
Door 2: Uninsulated Single-Layer Metal, Swinging, [Bldg. Use 1 - Retail]	24	---	---	0.590	0.610
Door 3: Uninsulated Single-Layer Metal, Swinging, [Bldg. Use 1 - Retail]	24	---	---	0.590	0.610
EAST					
Exterior Wall - East: Steel-Framed, 16" o.c., [Bldg. Use 1 - Retail]	635	13.0	7.5	0.064	0.064
Window 2: Metal Frame Fixed, Perf. Specs.: Product ID Vitro Solar 60, SHGC 0.39, PF 0.50, [Bldg. Use 1 - Retail] (b)	120	---	---	0.290	0.460
Window 3: Metal Frame Fixed, Perf. Specs.: Product ID Vitro Solar 60, SHGC 0.39, PF 0.50, [Bldg. Use 1 - Retail] (b)	635	13.0	7.5	0.064	0.064
Window 4: Metal Frame Fixed, Perf. Specs.: Product ID Vitro Solar 60, SHGC 0.39, PF 0.50, [Bldg. Use 1 - Retail] (b)	120	---	---	0.290	0.460
SOUTH					
Exterior Wall - South: Steel-Framed, 16" o.c., [Bldg. Use 1 - Retail]	579	13.0	7.5	0.064	0.064
Window 5: Metal Frame Fixed, Perf. Specs.: Product ID Vitro Solar 60, SHGC 0.39, PF 0.50, [Bldg. Use 1 - Retail] (b)	360	---	---	0.290	0.460

Project Title: 403 Executive Retail Development — Report date: 07/11/23
Data Filename: .../Energy Reports/Project Energy Reports/403 Executive Bldg D_ 6.27.2023.cck — Page: 1 of 10

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
(c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.
(d) High albedo roof requirement options: 1) 3 year aged solar reflectance >= 0.55 thermal emittance >= 0.75, 2) 3 year aged solar reflectance Index >= 64.0, 3) Initial year aged solar reflectance >= 0.75 thermal emittance >= 0.75, 4) Initial year aged solar reflectance Index >= 82.0.

Envelope PASSES: Design 13% better than code

Envelope Compliance Statement

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Charles Mais - Principal — Name / Title — Signature — 7.11.23 — Date

COMCHECK BLDG D

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

Texas 811
Know what's below. Call before you dig.
Call 811 TWO Working Days Before You Dig.
It's Free, It's Easy, and
IT'S THE LAW!

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GENERAL NOTES

1. PLANS INDICATE GENERAL SCOPE OF WORK . CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND SHALL PROVIDE ALL REQUIRED DEMOLITION WORK, AND NEW CONSTRUCTION SHOWN ON PLANS, OR NOT SHOWN TO MEET THE DESIGN INTENT.
2. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AND ALL EXISTING CONDITIONS PRIOR TO THE START OF ANY WORK. CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY EXISTING CONDITIONS WHICH DO NOT CONFORM TO THOSE INDICATED ON
3. THE DRAWINGS PRIOR TO PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERIODIC CLEANING AND FINAL CLEANING OF THE WORK AREAS. CLEAN WORK AREAS DAILY OF ALL TRASH AND DEBRIS. REMOVE TRASH DAILY.
4. CONTRACTOR SHALL ACCEPT BUILDING AND SITE IN ITS ORIGINAL CONDITION . ANY DAMAGE OCCURRED TO SITE OR BUILDING DURING TIME OF CONSTRUCTION PERIOD, SHALL BE REPAIRED TO MATCH ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
5. THE GENERAL CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ANY AND ALL CONSTRUCTION BARRICADES , AND OTHER PROTECTION DEVICES AS REQUIRED BY AND IN COMPLIANCE WITH ANY AND ALL BUILDING CODES, AGENCIES AND REGULATIONS APPLICABLE TO THE PROJECT.
6. THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH OTHER CONSULTANT'S DRAWINGS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS OR SKETCHES AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE PROJECT COORDINATOR AND THE ARCHITECT, BEFORE PROCEEDING WITH ANY WORK. SETS OF DRAWINGS ARE PHYSICALLY BOUND AND ARE NOT INTENDED TO BE SEPARATED WHEN BEING DISTRIBUTED TO SUBCONTRACTORS.
7. PROTECTION OF EXISTING WORK : BEFORE BEGINNING ANY CUTTING OR DEMOLITION WORK, THE CONTRACTOR SHALL CAREFULLY SURVEY THE EXISTING WORK AND EXAMINE THE DRAWINGS AND SPECIFICATIONS TO DETERMINE THE EXTENT OF THE WORK. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INSURE AGAINST DAMAGE TO EXISTING WORK TO REMAIN IN PLACE, TO BE REUSED, OR TO REMAIN THE PROPERTY OF THE OWNER, AND ANY DAMAGE TO SUCH WORK SHALL BE REPAIRED OR REPLACED AS APPROVED BY THE CONTRACTING OFFICER AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL CAREFULLY COORDINATE THE WORK OF THIS SECTION WITH ALL OTHER WORK AND CONSTRUCT AND MAINTAIN SHORING, BRACING AND SUPPORTS, AS REQUIRED. THE CONTRACTOR SHALL INSURE THAT STRUCTURAL ELEMENTS ARE NOT OVERLOADED AND BE RESPONSIBLE FOR INCREASING STRUCTURAL SUPPORTS OR ADDING NEW SUPPORTS AS MAY BE REQUIRED AS A RESULT OF ANY CUTTING, REMOVAL OR DEMOLITION WORK PERFORMED UNDER ANY PART OF THIS CONTRACT.
8. WALLS/SURFACES WHICH ARE ALTERED BY NEW WORK SHALL BE PATCHED AND REPAIRED TO MATCH WITH ADJACENT WALL SURFACES. THE LEVEL OF PATCH WORK SHALL BE OF THE HIGHEST QUALITY AND THE OWNER SHALL HAVE FINAL APPROVAL OF SUCH WORK.
9. ALL EXCAVATIONS BY THE REMOVAL OF SITE UTILITIES AND FOUNDATIONS SHALL BE BACKFILLED AS SPECIFIED.
10. ALL BIDDERS WILL BE REQUIRED TO VISIT THE JOB SITE PRIOR TO BIDDING TO FAMILIARIZE THEMSELVES WITH THE BUILDING AND ITS CONTENTS.
11. NOTES LISTED IN THESE CONTRACT DOCUMENTS ARE FOR INFORMATIONAL PURPOSES ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE AND DISPOSE OF ADDITIONAL INCIDENTAL ITEMS CONTAINED IN THE BUILDING WHETHER NOTED OR NOT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DO THE NECESSARY WORK TO ACHIEVE THE DESIGN INTENT.
12. THE GENERAL CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR AND EQUIPMENT AS REQUIRED TO COMPLETE ALL WORK AND FURNISH A COMPLETE JOB, IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL GOVERNING AUTHORITIES HAVING LAWFUL JURISDICTION OVER THE WORK.
13. THE GENERAL CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED ; THE GENERAL CONTRACTOR SHALL ALSO PAY ALL TAP AND METER FEES REQUIRED FOR THE PLUMBING, ELECTRICAL AND HVAC. FIRE SPRINKLER SUBCONTRACTOR SHALL PAY FOR THEIR PERMITS AND TAPS.
14. EQUIPMENT MAY BE LOCATED ON THESE DRAWINGS DIAGRAMMATICALLY . SUBCONTRACTORS SHALL COORDINATE WITH THE GENERAL CONTRACTOR WHEN LOCATION OF SUCH ITEMS ARE IN CONFLICT WITH STRUCTURAL CONDITIONS OR WORK FROM OTHER TRADES. QUESTIONS SHALL BE DIRECTED TO ARCHITECT AND HIS DECISIONS SHALL BE FINAL. NO ADDITIONAL COST WILL BE INCURRED DUE TO CONFLICTS.
15. CONTRACTOR SHALL COMPLY WITH ALL ORDINANCES, LAWS, CODES AND REGULATIONS ENFORCED BY THE LOCAL REGULATORY AUTHORITY.
16. PROVIDE EDGE STRIPS AT ALL APPLIED FLOOR FINISH MATERIAL TRANSITIONS.
17. GENERAL CONTRACTOR TO PROVIDE CONTINUOUS BLOCKING FOR ALL CABINETS, CURTAIN RODS, TOILET ACCESSORIES, HANDRAILS, DOOR JAMBS, COUNTERTOPS, DRYWALL CATCHES AND SIMILAR ITEMS.
18. FIRE STOP ALL OPENINGS AROUND PIPES, CONDUITS, ETC. WHERE THEY PENETRATE ANY FLOOR OR FIRE RATED WALL (IF APPLICABLE).
19. WINDOW ASSEMBLIES AND DOOR LITES LOCATED IN A FIRE RATED PARTITION OR RATED WALL SHALL BE RATED ACCORDINGLY AS REQUIRED BY LOCAL FIRE CODES.
20. PROVIDE ACCESS PANELS AT ALL VALVES AND SIMILAR AREAS WHERE ACCESS IS REQUIRED. ACCESS PANELS ARE TO BE RATED AS REQUIRED. SUBCONTRACTORS TO ADVISE GENERAL CONTRACTOR OF NECESSARY LOCATIONS. ALL PANELS TO BE FURNISHED AND INSTALLED BY THE DRYWALL CONTRACTOR. LOCATIONS SHALL BE APPROVED BY ARCHITECT.
21. PARTITIONS WHERE PLUMBING FIXTURES ARE LOCATED SHALL CONTINUE TO THE BOTTOM OF THE DECK AND BE PROVIDED WITH SOUND BATT INSULATION AND WATER-RESISTANT GYPSUM BOARD AT THE FIXTURE SIDE.
22. PARTITIONS SHALL EXTEND TO THE BOTTOM OF THE DECK WITH SOUND BATT INSULATION AT PARTITIONS SEPARATING RESTROOMS FROM OTHER ROOMS AND SPACES.
23. CEMENTITIOUS SUBSTRATE ('DURAROCK' OR APPROVED EQUAL') SHALL BE PROVIDED AT WALLS SURROUNDING SHOWERS AND BATHTUBS; AND WHERE WALL TILE IS THE FINISH.
24. ACCESSIBLE SIGNAGE SHALL BE PROVIDED FOR DOORS AT EXIT PASSAGE WAYS, EXIT DISCHARGE, EXIST STAIRWAYS, RESTROOMS, JANITOR CLOSETS, MECHANICAL AND ELECTRICAL ROOMS, FIRE RISER ROOMS AND TELECOM ROOMS.
25. CONTRIBUTION FEES ARE NOT THE RESPONSIBILITY OF THE CONTRACTOR AND SHOULD NOT BE INCLUDED IN CONSTRUCTION PRICE.
26. INTERPRETATION OF DETAILS, METHODS, SPECIFICATIONS, ETC. THE GENERAL CONTRACTOR, SUBCONTRACTOR AND MATERIAL SUPPLIER SHALL BE HELD SEPARATELY AND JOINTLY RESPONSIBLE FOR THE PROPER OPERATION, WORKMANSHIP, INSTALLED OPERATIONS, APPEARANCE, AND DURABILITY OF ITEMS INCORPORATED INTO THE PROJECT. THE EXCUSE THAT IT WAS INSTALLED AS DETAILED OR SPECIFIED AND IT DOES NOT FUNCTION PROPERLY, IS NOT VALID. IF THE CONTRACTOR IS IN DISAGREEMENT WITH ANY ITEMS, DETAILS, METHODS OR SPECIFICATIONS, HE SHALL NOTIFY THE ARCHITECT IN WRITING PRIOR TO THE INSTALLATION OF THE WORK. SUCH MATTERS WILL BE CLARIFIED, IN WRITING BY THE ARCHITECT, PRIOR TO THEIR INCORPORATION INTO THE PROJECT, AND THE ARCHITECT'S DECISION WILL BE FINAL.
27. THE GENERAL CONTRACTOR AND SUBCONTRACTORS WILL SUBMIT SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW AND COMMENT, 14 DAYS PRIOR TO THEIR ORDERING DEADLINE. THE EXCUSE THAT THE SHOP DRAWING REVIEW DELAYED THE RECEIPT OF THE SPECIFIED OR SELECTED PRODUCT OR MATERIAL, WILL NOT BE ACCEPTED AND THE GENERAL CONTRACTOR AND/OR SUBCONTRACTOR WILL BE RESPONSIBLE FOR EXPENSES INCURRED TO OBTAIN THE DESIRED PRODUCT IN A TIMELY MANNER. THE GENERAL CONTRACTOR SHALL PROVIDE A LIST OF SUBCONTRACTORS AND A SHOP DRAWING LOG TO ARCHITECT WITHIN TWO WEEKS OF NOTICE TO BEGIN CONSTRUCTION.
28. PLANS AND TECHNICAL SPECIFICATIONS: PLANS GOVERN TECHNICAL SPECIFICATIONS FOR QUANTITY AND LOCATION, AND SPECIFICATIONS GOVERN PLANS FOR QUALITY AND PERFORMANCE. IN THE EVENT OF AMBIGUITY IN QUANTITY OR QUALITY BETWEEN PLANS AND SPECIFICATIONS AND/OR WITHIN PLANS OR SPECIFICATIONS, THE GREATER QUANTITY AND THE BETTER QUALITY SHALL GOVERN.
29. DO NOT SCALE DRAWINGS TO OBTAIN REQUIRED DIMENSIONS. INFORM ARCHITECT IMMEDIATELY FOR CLARIFICATIONS INVOLVING DIMENSIONS, LOCATION, QUANTITY, ETC.
30. DRAWINGS FOR MECHANICAL, ELECTRICAL, STRUCTURAL AND OTHER DESIGN WORK SHALL BE FOLLOWED ONLY FOR WORK FOR WHICH THEY WERE SPECIFICALLY PREPARED AND SHALL BE CONSIDERED AS DIAGRAMMATIC ONLY. MECHANICAL AND ELECTRICAL DRAWINGS ARE NOT TO BE USED FOR ANY STRUCTURAL GUIDANCE OR ARCHITECTURAL LAYOUT.
31. IT SHALL BE THE OWNER'S RESPONSIBILITY TO CONTACT UTILITIES (EL PASO ELECTRIC, TEXAS GAS, PSB, TIME WARNER & AT&T) FOR DISCONNECTION PRIOR TO DEMOLITION WORK COMMENCING.
32. THE EXISTENCE OF ASBESTOS CONTAINING MATERIALS IS A POSSIBILITY. ASBESTOS ABATEMENT SHALL BE THE RESPONSIBILITY OF OWNER.
33. STORAGE, STAGING AND PARKING AREAS TO BE DESIGNATED AS DIRECTED BY OWNER.

ISSUED FOR PERMIT 08.11.23

REGISTERED ARCHITECT — CHARLES MAIS — 26457 — STATE OF TEXAS

ABHA RETAIL CENTER

AT

403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

1810 Wyoming ave
el paso, tx 79903
ph:915.534.8082
fax:915.534.8083

psrbbARCHITECTS
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LEGENDS / GENERAL NOTES

COMMISSION No. 23-010

DATE: 08-14-2023

REVISIONS

#	Description	Date

SHEET: **G1**

OF 12

CODE RESEARCH (BUILDING A)

PROJECT SCOPE/DESCRIPTION
403 EXECUTIVE CENTER BLVD, EL PASO, TEXAS 79902

CODE RESEARCH DATA- BUILDING CODE
ALL BUILDING CODE RESEARCH IS BASED ON THE 2015 INTERNATIONAL BUILDING CODE (I.B.C.)
AND THE 2015 INTERNATIONAL FIRE CODE (I.F.C.) AS USED BY THE CITY OF EL PASO, TX.

PROJECT: RETAIL CENTER

LEGAL DESCRIPTION
A EXECUTIVE PARK 1 & 2 (EXC W 20.00 FT) & TR 15-A (0.3490 AC) IN BARKER SURV 10 (48451.25 SQ FT)

ZONING
C-4

SETBACKS
FRONT: 0' **REAR:** 10' **SIDE:** N/A

PARKING
PARKING RATIO: 1/288 MIN. - 1/200 MAX.

3,644 S.F. / 288 = 12.6 = 13 SPACES

OCCUPANCY TYPE
GROUP M MERCANTILE

CONSTRUCTION TYPE
TYPE V-B / NON-SPRINKLED

ALLOWABLE HEIGHT
40' - 0" MAX (1 STORY MAX) ≥ ACTUAL BUILDING HEIGHT: 24' - 0"

ALLOWABLE AREA
OCCUPANCY CLASSIFICATION = M-MERCANTILE WITH A TYPE V-B CONSTRUCTION ALLOWS AN AREA OF 9,000 S.F. ≥
TENANT SPACE AREA: 3,644 S.F.

OCCUPANCY LOADS PER OCCUPANCY TYPE:
AREA = 3,644 S.F. / 60 = 61 OCCUPANTS

EXIT REQUIREMENTS
0.2 INCHES OF WIDTH PER OCCUPANT IS REQUIRED
61 OCCUPANTS X 0.2 = 13" OF EGRESS REQUIRED
EGRESS PROVIDED = **288"**

MAXIMUM TRAVEL DISTANCE
200' MAXIMUM TRAVEL DISTANCE ALLOWED (NON-SPRINKLED)≥
80'-10" MAXIMUM TRAVEL DISTANCE FROM MOST REMOTE LOCATION ECOUNTERED IN THIS PROJECT

PLUMBING FIXTURE REQUIREMENTS
TOILETS/URINALS: 1 PER 500 = 1 REQUIRED, ≤ **2 PROVIDED**
LAVATORIES: 1 PER 750= 2 REQUIRED, ≤ **2 PROVIDED**
DRINKING FOUNTAINS: 1 PER 100 OCCUPANTS = 1 REQUIRED, ≤ **1 PROVIDED**
SERVICE SINK: 1 REQUIRED, ≤ **1 PROVIDED**

FIRE EXTINGUISHER REQUIREMENTS
1 FIRE EXTINGUISHER PER 3000 S.F.
3,644 S.F./3000 S.F = 2 REQUIRED, **≤ 4 PROVIDED**

CODE RESEARCH (BUILDING B)

PROJECT SCOPE/DESCRIPTION
403 EXECUTIVE CENTER BLVD, EL PASO, TEXAS 79902

CODE RESEARCH DATA- BUILDING CODE
ALL BUILDING CODE RESEARCH IS BASED ON THE 2015 INTERNATIONAL BUILDING CODE (I.B.C.)
AND THE 2015 INTERNATIONAL FIRE CODE (I.F.C.) AS USED BY THE CITY OF EL PASO, TX.

PROJECT: RETAIL CENTER

LEGAL DESCRIPTION
A EXECUTIVE PARK 1 & 2 (EXC W 20.00 FT) & TR 15-A (0.3490 AC) IN BARKER SURV 10 (48451.25 SQ FT)

ZONING
C-4

SETBACKS
FRONT: 0' **REAR:** 10' **SIDE:** N/A

PARKING
PARKING RATIO: 1/288 MIN. - 1/200 MAX.

4,044 S.F. / 288 = 14 SPACES

OCCUPANCY TYPE
GROUP M MERCANTILE

CONSTRUCTION TYPE
TYPE V-B / NON-SPRINKLED

ALLOWABLE HEIGHT
40' - 0" MAX (1 STORY MAX) ≥ ACTUAL BUILDING HEIGHT: 24' - 0"

ALLOWABLE AREA
OCCUPANCY CLASSIFICATION = M-MERCANTILE WITH A TYPE V-B CONSTRUCTION ALLOWS AN AREA OF 9,000 S.F. ≥
TENANT SPACE AREA: 4,044 S.F.

OCCUPANCY LOADS PER OCCUPANCY TYPE:
AREA = 4,044 S.F. / 60 = 68 OCCUPANTS

EXIT REQUIREMENTS
0.2 INCHES OF WIDTH PER OCCUPANT IS REQUIRED
68 OCCUPANTS X 0.2 = 14" OF EGRESS REQUIRED
EGRESS PROVIDED = **288"**

MAXIMUM TRAVEL DISTANCE
200' MAXIMUM TRAVEL DISTANCE ALLOWED (NON-SPRINKLED) ≥
68'-6" MAXIMUM TRAVEL DISTANCE FROM MOST REMOTE LOCATION ECOUNTERED IN THIS PROJECT

PLUMBING FIXTURE REQUIREMENTS
TOILETS/URINALS: 1 PER 500 = 1 REQUIRED, ≤ **2 PROVIDED**
LAVATORIES: 1 PER 750= 2 REQUIRED, ≤ **2 PROVIDED**
DRINKING FOUNTAINS: 1 PER 100 OCCUPANTS = 1 REQUIRED, ≤ **1 PROVIDED**
SERVICE SINK: 1 REQUIRED, ≤ **1 PROVIDED**

FIRE EXTINGUISHER REQUIREMENTS
1 FIRE EXTINGUISHER PER 3000 S.F.
4,044 S.F./3000 S.F = 2 REQUIRED, ≤ **4 PROVIDED**

CODE RESEARCH (BUILDING C)

PROJECT SCOPE/DESCRIPTION
403 EXECUTIVE CENTER BLVD, EL PASO, TEXAS 79902

CODE RESEARCH DATA- BUILDING CODE
ALL BUILDING CODE RESEARCH IS BASED ON THE 2015 INTERNATIONAL BUILDING CODE (I.B.C.)
AND THE 2015 INTERNATIONAL FIRE CODE (I.F.C.) AS USED BY THE CITY OF EL PASO, TX.

PROJECT: RETAIL CENTER

LEGAL DESCRIPTION
A EXECUTIVE PARK 1 & 2 (EXC W 20.00 FT) & TR 15-A (0.3490 AC) IN BARKER SURV 10 (48451.25 SQ FT)

ZONING
C-4

SETBACKS
FRONT: 0' **REAR:** 10' **SIDE:** N/A

PARKING
PARKING RATIO: 1/288 MIN. - 1/200 MAX.

3,037 S.F. / 288 = 11 SPACES

OCCUPANCY TYPE
GROUP M MERCANTILE

CONSTRUCTION TYPE
TYPE V-B / NON-SPRINKLED

ALLOWABLE HEIGHT
40' - 0" MAX (1 STORY MAX) ≥ ACTUAL BUILDING HEIGHT: 24' - 0"

ALLOWABLE AREA
OCCUPANCY CLASSIFICATION = M-MERCANTILE WITH A TYPE V-B CONSTRUCTION ALLOWS AN AREA OF 9,000 S.F. ≥
TENANT SPACE AREA: 3,037 S.F.

OCCUPANCY LOADS PER OCCUPANCY TYPE:
AREA = 3,037 S.F. / 60 = 51 OCCUPANTS

EXIT REQUIREMENTS
0.2 INCHES OF WIDTH PER OCCUPANT IS REQUIRED
34 OCCUPANTS X 0.2 = 6.8" OF EGRESS REQUIRED
EGRESS PROVIDED = **64"**

MAXIMUM TRAVEL DISTANCE
200' MAXIMUM TRAVEL DISTANCE ALLOWED (NON-SPRINKLED) ≥
71'-8" MAXIMUM TRAVEL DISTANCE FROM MOST REMOTE LOCATION ECOUNTERED IN THIS PROJECT

PLUMBING FIXTURE REQUIREMENTS
TOILETS/URINALS: 1 PER 500 = 1 REQUIRED,≤ **2 PROVIDED**
LAVATORIES: 1 PER 750= 2 REQUIRED, ≤ **2 PROVIDED**
DRINKING FOUNTAINS: 1 PER 100 OCCUPANTS = 1 REQUIRED, ≤ **1 PROVIDED**
SERVICE SINK: 1 REQUIRED, ≤ **1 PROVIDED**

FIRE EXTINGUISHER REQUIREMENTS
1 FIRE EXTINGUISHER PER 3000 S.F.
3,037 S.F./3000 S.F = 2 REQUIRED, ≤ **4 PROVIDED**

CODE RESEARCH (BUILDING D)

PROJECT SCOPE/DESCRIPTION
403 EXECUTIVE CENTER BLVD, EL PASO, TEXAS 79902

CODE RESEARCH DATA- BUILDING CODE
ALL BUILDING CODE RESEARCH IS BASED ON THE 2015 INTERNATIONAL BUILDING CODE (I.B.C.)
AND THE 2015 INTERNATIONAL FIRE CODE (I.F.C.) AS USED BY THE CITY OF EL PASO, TX.

PROJECT: RETAIL CENTER

LEGAL DESCRIPTION
A EXECUTIVE PARK 1 & 2 (EXC W 20.00 FT) & TR 15-A (0.3490 AC) IN BARKER SURV 10 (48451.25 SQ FT)

ZONING
C-4

SETBACKS
FRONT: 0' **REAR:** 10' **SIDE:** N/A

PARKING
PARKING RATIO: 1/288 MIN. - 1/200 MAX.

3,037 S.F. / 288 = 11 SPACES

OCCUPANCY TYPE
GROUP M MERCANTILE

CONSTRUCTION TYPE
TYPE V-B / NON-SPRINKLED

ALLOWABLE HEIGHT
40' - 0" MAX (1 STORY MAX) ≥ ACTUAL BUILDING HEIGHT: 24' - 0"

ALLOWABLE AREA
OCCUPANCY CLASSIFICATION = M-MERCANTILE WITH A TYPE V-B CONSTRUCTION ALLOWS AN AREA OF 9,000 S.F. ≥
TENANT SPACE AREA: 3,037 S.F.

OCCUPANCY LOADS PER OCCUPANCY TYPE:
AREA = 3,037S.F. / 60 = 51 OCCUPANTS

EXIT REQUIREMENTS
0.2 INCHES OF WIDTH PER OCCUPANT IS REQUIRED
34 OCCUPANTS X 0.2 = 6.8" OF EGRESS REQUIRED
EGRESS PROVIDED = **64"**

MAXIMUM TRAVEL DISTANCE
200' MAXIMUM TRAVEL DISTANCE ALLOWED (NON-SPRINKLED) ≥
53'-3" MAXIMUM TRAVEL DISTANCE FROM MOST REMOTE LOCATION ECOUNTERED IN THIS PROJECT

PLUMBING FIXTURE REQUIREMENTS
TOILETS/URINALS: 1 PER 500 = 1 REQUIRED, **2 PROVIDED**
LAVATORIES: 1 PER 750= 2 REQUIRED, **2 PROVIDED**
DRINKING FOUNTAINS: 1 PER 100 OCCUPANTS = 1 REQUIRED, **1 PROVIDED**
SERVICE SINK: 1 REQUIRED, **1 PROVIDED**

FIRE EXTINGUISHER REQUIREMENTS
1 FIRE EXTINGUISHER PER 3000 S.F.
3,037 S.F./3000 S.F = 2 REQUIRED, ≤ **4 PROVIDED**

OVERALL SITE PARKING REQUIRED:

PARKING REQUIRED:
BUILDING A+B+C+D = 49 SPACES RQUIRED

PARKING PROVIDED:
BUILDING A+B+C+D = 49 SPACES PROVIDED

4 HC SPACES REQUIRED/PROVIDED
1 VAN ACCESSIBLE SPACES REQUIRED/PROVIDED

BIKE RACK SPACES REQUIRED PROVIDED:
3 BIKE RACK SPACES REQUIRED
10 BIKE RACK SPACES PROVIDED

OVERALL SITE OCCUPANCY:

OCCUPANT LOAD - (M) MERCANTILE
1 OCC. PER 60 GROSS

BLDG A= 3,644/60 = 60.7 = 61 OCCUPANTS
BLDG B= 4,044/60 = 67.4 = 68 OCCUPANTS
BLDG C= 3,037/60 = 50.6 = 51 OCCUPANTS
BLDG D= 3,037/60 = 50.6 = 51 OCCUPANTS

TOTAL MIN = 231 OCCUPANTS

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ISSUED FOR PERMIT 08.11.23

REGISTERED ARCHITECT
CHARLES MARSHALL
26453
STATE OF TEXAS

ABHA RETAIL CENTER
AT
403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

1810 Wyoming ave
el paso, tx 79903
ph:915.534.8082
fax:915.534.8083

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CODE RESEARCH

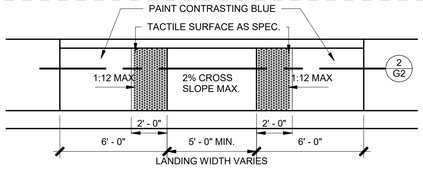
COMMISSION No.
23-010

DATE: 08-14-2023

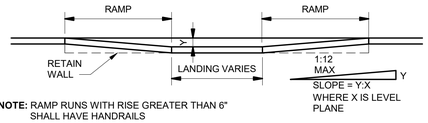
REVISIONS

#	Description	Date

SHEET: **G2**
OF 12



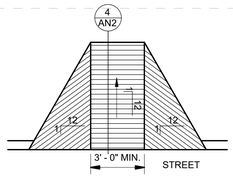
1 PARALLEL CURB RAMP - PLAN



***NOTE:** RAMP RUNS WITH RISE GREATER THAN 6" SHALL HAVE HANDRAILS

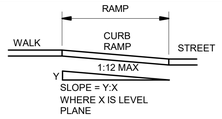
2 PARALLEL CURB RAMP - SECTION

NTS



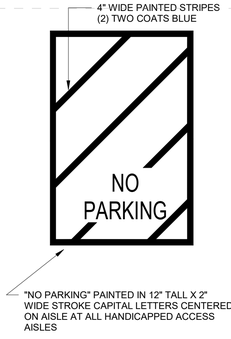
3 FLARED SIDE CURB RAMP - PLAN

NTS



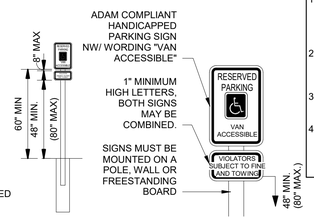
4 FLARED SIDE CURB RAMP - SECTION

NTS



STRIPING DETAIL

NTS



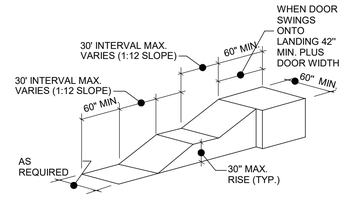
PARKING SIGNAGE

NTS

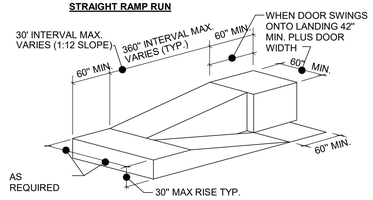
SIGN NOTES

1. HANDICAPPED SIGN SHALL HAVE A REFLECTIVE WHITE BACKGROUND WITH REFLECTIVE BLUE LEGEND & BORDER AND REFLECTIVE BLUE SYMBOL.
2. VAN ACCESSIBLE SIGN SHALL HAVE A REFLECTIVE WHITE BACKGROUND WITH REFLECTIVE BLUE LEGEND & BORDER
3. MOUNT SIGN TO POST PER UNIFORM TRAFFIC CONTROL DEVICE STANDARDS.
4. EACH INDIVIDUAL HANDICAP PARKING SPACE MUST HAVE PROPER SIGNAGE AND PAVEMENT MARKINGS PER CITY AND A.D.A REQUIREMENTS

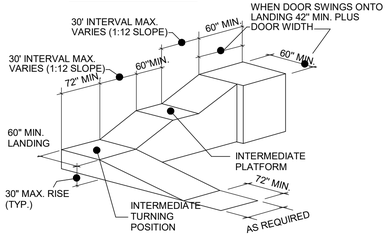
NOTE:
THE PROJECT MUST BE CONSTRUCTED IN COMPLIANCE WITH THE 2012 TEXAS ACCESSIBILITY STANDARDS (TAS) OF THE ARCHITECTURAL BARRIERS ACT, ARTICLE 9102, TEXAS CIVIL STATUTES, EFFECTIVE DATE MARCH 15, 2012. THIS SHEET PROVIDES ONLY GENERAL DETAIL INFORMATION. ALL OF THESE DETAILS WILL NOT NECESSARILY BE USED IN THIS PROJECT. THEY ARE TO BE USED AS REFERENCE MATERIAL FOR THOSE DETAILS WHICH ARE APPLICABLE. PORTIONS OF TEXT INCLUDED BELOW ARE EXCERPTS FORM THE REFERENCED STANDARDS.



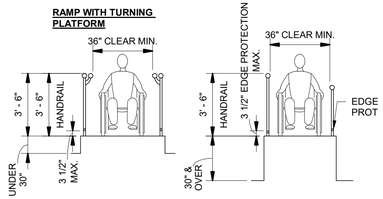
STRAIGHT RAMP RUN



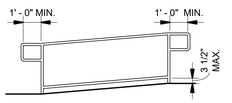
RAMP WITH INTERMEDIATE SWITCH - BACK PLATFORM



RAMP WITH TURNING PLATFORM



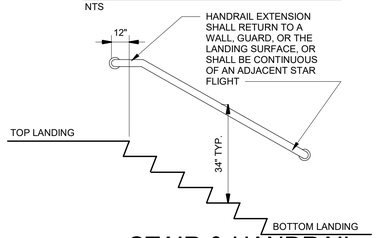
RAMP SECTION

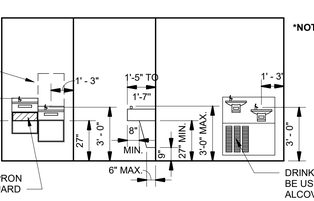


RAMP HANDRAIL EXTENSIONS

RAMP REQUIREMENTS

NTS

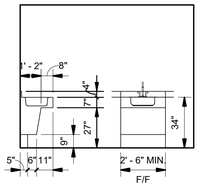




***NOTE:** CLEAR 30" WIDE FRONT APPROACH CLEAR SPACE FOR ADA DRINKING FOUNTAIN.
602.2 CLEAR FLOOR SPACE.

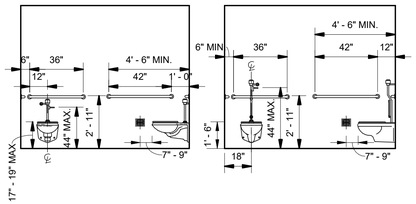
WATER COOLER

NTS



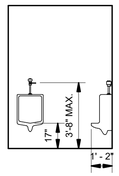
LAVATORIES AND SINK

NTS



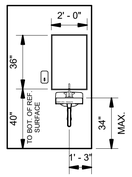
GRAB BAR

NTS



URINAL

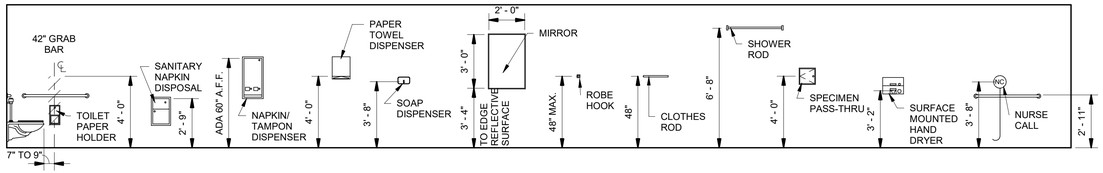
NTS



603.3 MIRRORS

LAVATORY

NTS



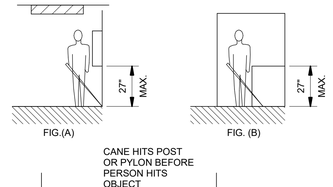
TOILET ACCESSORIES

NTS

LOCATION. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE LEAF DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALL. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18 INCHES MINIMUM BY 18" MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARCH OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION.

SIGNAGE MOUNTING

NTS

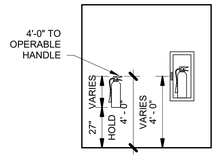


PROTRUDING OBJECTS

NTS

EXIT SIGNAGE

NTS



FIRE EXTINGUISHER/CABINET

NTS

STAIR & HANDRAIL DETAILS

NTS

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REGISTERED ARCHITECT
CHARLES MARSHALL
26457
STATE OF TEXAS

ABHA RETAIL CENTER

AT

403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

1810 Wyoming ave
el paso, tx 79903
ph: 915.534.8082
fax: 915.534.8083

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TAS/TDLR/ADA COMPLIANCE

COMMISSION No. 23-010

DATE: 08-14-2023

REVISIONS

#	Description	Date

SHEET: **G3**

OF 12

ISSUED FOR PERMIT 08.11.23

Fire Department

Hydrant Flow Test Report

Activity Info:
Activity Started: 12/15/2022 13:30 **Activity Ended:** 12/15/2022 13:40 **Performed By:** Roddam, Matthew C **Unit:** Q31 **Completed:** Completed

Test Hydrant:
Hydrant ID: 001080 **Test Method:** Pitot **Static:** 86 **Residual:** 60 **Drop:** 26

EXECUTIVE CENTER BL. / N. MESA

Flow Method Data:

HydrantID	Location	Pitot	Port Size	Coefficient	Flow Rate
003975	4301 N. MESA ST., EP	72.00	2.500	0.90	1424

Flow Test Results:
Classification: Blue (>= 1500 GPM) **Flow @ 20:** 2355 **Flow @ 10:** 2541 **Flow @ 0:** 2716 **Total Flow:** 1424

Version (3.0.0.20213) database=(1.000.341(2.000.135)

2 FH #1080

SCALE: 1" = 1'-0"

Fire Department

Hydrant Flow Test Report

Activity Info:
Activity Started: 11/11/2022 09:00 **Activity Ended:** 11/11/2022 09:00 **Performed By:** Morales, Marcelo R **Unit:** P8 **Completed:** Completed

Test Hydrant:
Hydrant ID: 001398 **Test Method:** Pitot **Static:** 90 **Residual:** 76 **Drop:** 14

EXECUTIVE CENTER BL. / PINNACL

Flow Method Data:

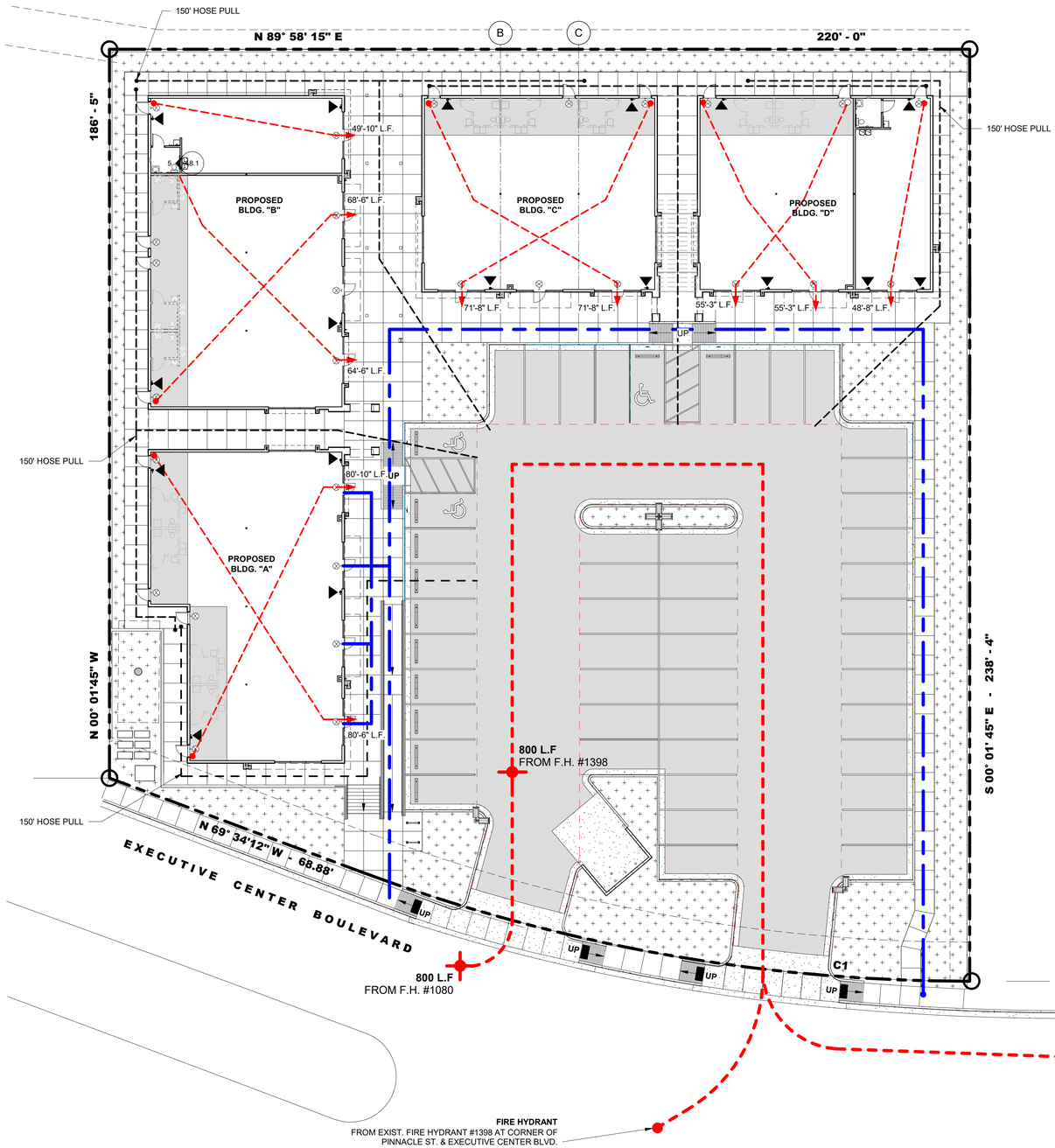
HydrantID	Location	Pitot	Port Size	Coefficient	Flow Rate
000013	4140 RIO BRAVO ST., EP	35.00	2.500	0.90	993

Flow Test Results:
Classification: Blue (>= 1500 GPM) **Flow @ 20:** 2367 **Flow @ 10:** 2544 **Flow @ 0:** 2711 **Total Flow:** 993

Version (3.0.0.20213) database=(1.000.341(2.000.135)

3 FH #1398

SCALE: 1" = 1'-0"



1 FIRE PROTECTION SITE PLAN

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

FIRE PROTECTION LEGEND

- FIRE EXTINGUISHER CABINET
- EXIT TRAVEL DISTANCE
- FIRE LANE
- FIRE APPARATUS COVARAGE
- FIRE HYDRANT TRAVEL DISTANCE
- EXIT SIGNS
- PUBLIC ACCESSIBLE ROUTE

NOTES:

1. SEE INDIVIDUAL BUILDING CODE SHEETS FOR ADDITIONAL INFORMATION. REFER TO SHEET G2.0

2.FIRE EXTIGUISERS QUANITY WILL BE DETERMINED BY TENANT

ISSUED FOR PERMIT 08.11.23

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ABHA RETAIL CENTER
AT
403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

FIRE PROTECTION PLAN

COMMISSION No. 23-010

DATE: 08-14-2023

REVISIONS

#	Description	Date

SHEET: **G4**

OF 12

Legend

Description	Quantity	Unit
Curb - 6"Wide x 12"Thick machine laid concrete curb	34.00	ft
Curb - 18"Wide x 12"Thick concrete (3000 psi) curb & gutter	814.93	ft
Pavement - 2" type "C" asphalt pavement + 6" crushed stone base course	15,437	sf
RW - 1'-0" wide native stone garden wall (2'-6" high)	215.46	ft
RW - 2'-0"Wide x 1'-0"Thick concrete wall footing w/ (2) #4 cont. & #4 @ 12" o.c.	246.87	ft
RW - 8" thick concrete retaining wall w/ #4 @ 12" o.c. each way & #4 dowel @ 12" o.c. (4'-8"H)	192.05	ft
RW - 8" thick concrete retaining wall w/ #4 @ 12" o.c. each way & #4 dowel @ 12" o.c. (5'-8"H)	54.87	ft
RW - 12" wide concrete (3000 psi) wall footing w/ (2) #4 bars cont. assuming 12" thick	215.46	ft
Sidewalk - 4" thick concrete (3000 psi) sidewalk w/ 6x6x1.4x1.4 W.W.F	9,234	sf
Sidewalk - 6" thick concrete (4400 psi) driveway w/ #3 rebar @ 12" o.c. bothways	855	sf
Sidewalk - 6"Wide x 8"High concrete turndown with 3/4" cont. chamfer edge and #4 @ 16" o.c. & (3) #3 cont.	142.29	ft
Site - 5'-0" x 4'-0" Transformer pad, assuming 12" thick	1	Count
Site - 6'-0" wide x 11'-6" long Grase trap, details missing	1	Count
Site - Concrete footing for power pole, assuming 1'-6" dia. x 48" deep	1	Count

ENGINEER. OTHERWISE, THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THEIR CORRECTNESS.

6. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN STRICT CONFORMANCE WITH ALL CURRENT, APPLICABLE SAFETY CODES AND STANDARDS, INCLUDING BUT NOT LIMITED TO OSHA REQUIREMENTS.
7. **WARNING!** BEFORE EXCAVATING, CONTRACTOR SHALL LOCATE AND PROTECT ALL UNDERGROUND UTILITY LINES. CONTRACTOR SHALL REPLACE ANY UTILITIES DAMAGED DURING CONSTRUCTION, AT NO ADDITIONAL COST TO OWNER.
8. CONTRACTOR SHALL WATER CONSTRUCTION SITE AREA A MINIMUM OF TWICE A DAY TO KEEP DUST TO A MINIMUM – ONCE IN THE MORNING AND ONCE IN THE AFTERNOON. THIS SHALL ALSO BE DONE ON WEEKENDS AND HOLIDAYS.
9. CONTRACTOR SHALL PREVENT THE EROSION OF SILT, SEDIMENT, AND DEBRIS FROM THE CONSTRUCTION SITE ONTO ADJACENT PROPERTIES AND STREETS. THIS MAY BE ACCOMPLISHED BY ERECTING EARTHEN BERMS AND/OR SILT FENCES, AND CONSTRUCTING A TYPE 1 CONSTRUCTION EXIT. REFER TO STORMWATER POLLUTION PREVENTION PLAN FOR ADDITIONAL INFORMATION.
10. ALL GRADING WORK SHALL CONFORM TO THE CITY OF EL PASO GRADING ORDINANCE SECTION 18.44.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING IMPROVEMENTS IN THE PROJECT AREA AND ITS VICINITY. ANY DAMAGES RESULTING FROM CONTRACTOR'S WORK SHALL BE REPAIRED TO ITS ORIGINAL CONDITION OR BETTER BY CONTRACTOR, AT NO COST TO OWNER.
12. CONTRACTOR SHALL INSURE THAT THE SLOPE WITHIN ALL WHEELCHAIR ACCESSIBLE PARKING STALLS AND AISLES DOES NOT EXCEED 2% IN ANY DIRECTION.
13. FILL MATERIALS FOR SITE GRADING AND BACKFILL WILL CONFORM TO THE SPECIFIED REQUIREMENTS IN THE PROJECT GEOTECHNICAL RECOMMENDATIONS. IN THE ABSENCE OF GEOTECHNICAL RECOMMENDATIONS, FILL MATERIAL MAY CONSIST OF ON–SITE AND/OR IMPORTED MATERIALS IN COMPLIANCE WITH THE FOLLOWING:
    - FILL MATERIALS SHALL BE FREE OF ANY ORGANIC OR DELETERIOUS SUBSTANCE AND SHALL NOT CONTAIN ROCKS OR LUMPS OVER 4 INCHES IN GREATEST DIMENSION;
    - FILL MATERIALS SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM D2487. SOILS CLASSIFIED AS GW, GP, GC, GM, GC–GM, GP–GC, SW, SP, SC, SM, SC–SM, SP–SM, SP–SC ARE CONSIDERED SATISFACTORY. SOILS WITH A PLASTICITY INDEX OF GREATER THAN 12 OR IF CLASSIFIED AS PT, OL, OH, ML, CL OR CH SHALL BE CONSIDERED UNSATISFACTORY.
    - THE SURFACE ON WHICH FILL MATERIAL IS TO BE PLACED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 6 INCHES, WATERED TO ADD THE AMOUNT OF MOISTURE REQUIRED FOR OPTIMUM COMPACTION, AND THEN COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557.
    - FILL MATERIAL SHALL BE PLACED IN LIFTS NOT EXCEEDING 8 INCHES UNCOMPACTED DEPTH, WITH MOISTURE CONTENT AT PLUS OR MINUS 2 PERCENT OF OPTIMUM. EACH LIFT SHALL BE COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557.
14. CONTRACTOR TO INSTALL ALL TRAFFIC CONTROL DEVICES DURING THE CONSTRUCTION OF THE NEW DRIVEWAY PER THE CURRENT MUTCD STANDARD APPLICABLE FOR SHOULDER WORK.
15. RETAINING WALLS WILL BE REQUIRED WHERE THERE IS A GRADE DIFFERENCE OF 2 OR MORE FEET BETWEEN LOTS AND STREET.
16. DEVELOPER SHALL COMPLY WITH SECTION 13.08 OF THE EL PASO MUNICIPAL CODE REGARDING EXCAVATIONS ON PUBLIC R.O.W.
17. 85% COMPACTION REQUIRED ON CUTS AND 95% COMPACTION ON FILLS. 95% COMPACTION REQUIRED FOR STRUCTURES PER ASTM D–1557.
18. THE CONTRACTOR SHALL NOTIFY THE OWNER, OR ITS REPRESENTATIVE, IN SUFFICIENT TIME IN ADVANCE OF DELIVERY OF MATERIALS TO BE SUPPLIED BY HIM UNDER THIS PROJECT, IN ORDER THAT THE OWNER MAY ARRANGE, IF DESIRED, INSPECTION AND TESTING OF MATERIALS.
19. ALL WASTE MATERIALS INCLUDING EXCAVATION, CURBING, PAVEMENT, ETC. SHALL BE DISPOSED OF AS DESIGNATED BY THE OWNER OR HIS REPRESENTATIVE.
20. DEVELOPER SHALL COMPLY WITH ADA REQUIREMENTS FOR THE SUBDIVISION IMPROVEMENTS.
21. DEVELOPER IS RESPONSIBLE FOR THE CONSTRUCTION OF ALL ACCESIBLE RAMPS AND ALL ROCK RETAINING WALLS. EQUAL TO OR HIGHER THAN 4 FT.

18.44.200 – ENGINEERING CONTROLS FOR GRADING

1. NO ON–SITE PROCESSING OF MATERIAL FOR COMMERCIAL OR RETAIL SALES SHALL BE ALLOWED. ON–SITE PROCESSING OF MATERIALS TO BE USED FOR PREPARATION OR CONSTRUCTION OF IMPROVEMENTS WITHIN THE SITE COVERED BY THE GRADING PERMIT SHALL BE ALLOWED.
2. WORK SHALL BE CONDUCTED IN A MANNER THAT PRESERVES AND DOES NOT OBSTRUCT, IMPEDE OR INTERFERE WITH THE FLOW OF STORMWATER IN NATURAL DRAINAGE WAYS, UNIMPROVED CHANNELS OR WATERCOURSES, OR IMPROVED DITCHES, CHANNELS OR CANALS IN SUCH A MANNER AS TO CAUSE FLOODING WHERE IT WOULD NOT OTHERWISE OCCUR.
3. CONSTRUCTION EQUIPMENT AND FENCING SHALL BE KEPT OUT OF WATERCOURSES EXCEPT WHEN NECESSARY TO PERFORM WORK ON THE APPROVED PLANS. ADEQUATE BY–BASS MEASURES SHALL BE INSTALLED WHERE TEMPORARY DRAINAGE BLOCKAGES WILL OCCUR. WHERE WORK WITHIN A CHANNEL IS DESIGNATED ON APPROVED PLANS, PRECAUTIONS SHALL BE TAKEN TO STABILIZE THE WORK AREA DURING CONSTRUCTION TO MINIMIZE EROSION AS SHOWN ON THE PLANS. THE CHANNEL, INCLUDING BED AND BANKS, SHALL ALWAYS BE RESTORED/RESTABILIZED IMMEDIATELY AFTER WORK IN THE CHANNEL IS COMPLETED.
4. WHERE A DRAINAGE WAY WILL BE CROSSED BY CONSTRUCTION VEHICLES REGULARLY DURING CONSTRUCTION, A TEMPORARY CROSSING SHALL BE CONSTRUCTED AS REQUIRED IN THE APPROVED GRADING PLANS.
5. MATERIAL STOCKPILING SHALL NOT BE ALLOWED WHEN GRADING OPERATIONS ARE IDLE FOR MORE THAN SEVEN CONSECUTIVE CALENDAR DAYS. STOCKPILING SHALL BE LIMITED TO TEN FEET HIGH WHEN GRADING OPERATIONS ARE BEING CONDUCTED.
6. A TRAFFIC CONTROL PERMIT SHALL BE REQUIRED IF THE GRADING OPERATION WILL IMPACT TRAFFIC.
7. ANY USE OF VIBRATORY EQUIPMENT SHALL NOT BE ALLOWED, UNLESS APPROVED IN WRITING BY THE PERMIT OFFICIAL IN ADVANCE OF SUCH USE.
8. THE PERMIT OFFICIAL MUST BE NOTIFIED NO LATER THAN 4:00 PM THE DAY IN ADVANCE OF ANY GRADING WORK. ADDITIONAL ACTIVITY REQUIREMENTS/RESTRICTIONS MAY BE SPECIFIED BY THE DESIGN ENGINEER OF RECORD.

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WARNING!!! BEFORE YOU DIG

COORDINATION WITH UTILITIES:

CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES PRIOR TO ANY EXCAVATION AND/OR RELOCATION OF EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION WORK.

TEXAS GAS SERVICE
4700 POLLARD ST.
EL PASO, TEXAS 79930
ARMANDO REDA, 680–7243

AT&T
11200 PELLICANO DR.
EL PASO, TEXAS 79935
MR. JOE GRANADOS
(915) 595–5140

EL PASO ELECTRIC CO.
501 WEST SAN ANTONIO ST.
EL PASO, TEXAS 79901
MR. BILL ENGELS, (915) 543–4108
MOBILE, (915) 539–7184

TIME WARNER COMMUNICATIONS
#20 CONCORD ST.
EL PASO, TEXAS 79906
CONSTRUCTION, (915) 775–7414

EL PASO WATER UTILITIES
1154 HAWKINS DR.
EL PASO, TEXAS
(915) 852–3917

TEXAS EXCAVATION SAFETY SYSTEM
ANYWHERE IN TEXAS
1–800–344–8377

CLOSEOUT PROCEDURE

CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE REQUIRED WARRANTY AND GRADING PERMIT CLOSE–OUT PROCEDURE. REFER TO THE FOLLOWING CITY ORDINANCE EXCERPTS:

"Warranty.

Person issued a permit shall agree warrant and maintain the grad in the permit for a period of two years after the permit is the city pursuant to Section 18.44.220, or until a building ted for the purpose of maintaining a stabilized site in with the approved GSP (Grading Stabilization Plan), it occurs (the "warranty" or "warranty period"). The city inspections of the permitted area throughout the warranty quire maintenance and correction of the work by the Failure of the permit holder to correct the work shall ilure to comply with the provisions of this chapter.

Permit close–out procedure.

he permittee completes the grading under the permit, the permit shall be closed. As part of the close–out procedure, the applicant must submit the following to the city:

A. A statement from the engineer of record that states, "the grading operation has been substantially completed and generally conforms to the approved set of plans". The permittee shall call the permit official to establish the beginning of the warranty period and to notify the permit official that the GSP has been implemented.
B. A copy of the notice of termination filed with the state or dated construction site notice, if applicable, in accordance with Chapter 15.

The city will issue a letter stating general conformance to the permit has been met and that the warranty period requirements will continue to be in effect.

2. AT THE TIME OF SUBSTANTIAL COMPLETION, THE CONTRACTOR IS RESPONSIBLE TO RETAIN A REGISTERED PROFESSIONAL LAND SURVEYOR TO PERFORM AN AS–BUILT SURVEY. SUCH SURVEY WILL BE PROVIDED TO SITEWORK ENGINEERING LLC TO CERTIFY THE CONFORMITY OF THE APPROVED GRADING SET OF PLANS.
3. CONTRACTOR SHALL NOTIFY SITEWORK ENGINEERING AT THE TIME OF SUBSTANTIAL COMPLETION TO PERFORM THE FIELD OBSERVATION ACCORDING TO §18.44.220.
4. IF THE POST–CONSTRUCTION CONDITIONS ARE FOUND SUBSTANTIALLY DIFFERENT THAN THE APPROVED PLANS, CONTRACTOR SHALL BE RESPONSIBLE FOR THE FIELD RECTIFICATION EXPENSES, ADDITIONAL ENGINEERING SERVICES AND/OR ADDITIONAL SURVEYING SERVICES (AS APPLICABLE).

ACCESIBLE ROUTE AND PARKING

1. SURFACE SLOPE – ACCESSIBLE ROUTE (TAS 4.3.7) RUNNING SLOPE SHALL NOT EXCEED 1:20 (5%) (OR IT IS A RAMP), CROSS SLOPE SHALL NOT EXCEED 1:50 (2%)
2. SURFACE SLOPE – PARKING (TAS 4.6.3) SURFACE SLOPES AT ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL, NOT EXCEEDING 1:50 (2%) IN ALL DIRECTIONS.
3. CURB RAMPS (TAS 4.7.5) SLOPES AT CURB RAMP, AND FLARED SIDES SHALL NOT EXCEED 1:12.
4. SURFACE TEXTURE (TAS 4.7.4) PROVIDE LIGHT REFLECTIVE, CONTRASTING SURFACE VALUE, AND TEXTURE (TRUNCATED DOMES OR GROOVES PER TDLR TM99–15) ON THE CURB RAMPS.

COMPACTION NOTES:

1. THE COMPACTION REQUIREMENTS DESCRIBED HERE ARE MINIMUM COMPACTION REQUIREMENTS. THE CONTRACTOR SHALL ALSO PROVIDE COMPACTION AS REQUIRED BY GEOTECHNICAL REPORT.
2. UNDER LAWN OR UNPAVED SURFACES: CONTRACTOR SHALL COMPACT TOP SIX INCHES OF SUBGRADE AND EACH LAYER OF BACKFILL MATERIAL TO 90% DENSITY AS PER ASTM D–1557.
3. UNDER STRUCTURES, BUILDING PADS, CURBS, STEPS AND PAVEMENTS: CONTRACTOR SHALL COMPACT TOP TWELVE INCHES OF SUBGRADE AND EACH LAYER OF BACKFILL MATERIAL TO 95% DENSITY AS PER ASTM D–1557.
4. UNDER WALKWAYS: CONTRACTOR SHALL COMPACT SIX INCHES OF SUBGRADE AND EACH LAYER OF BACKFILL MATERIAL TO 95% DENSITY AS PER ASTM D–1557.

DRAINAGE CALCULATIONS: 100–YR FREQUENCY RATIONAL METHOD (POST–DEVELOPED)

DRAINAGE AREA	ACRES	COEF.	Tc (MIN)	I (IN/HR)	Q (CFS)	DISCHARGE POINT
1	0.94	0.95	10.0	5.19	4.6	DRIVEWAY
	0.17	0.50	10.0	5.19	0.4	

DRAINAGE CALCULATIONS: 100–YR FREQUENCY RATIONAL METHOD (HISTORIC)

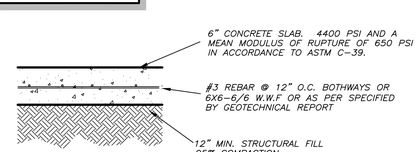
DRAINAGE AREA	ACRES	COEF.	Tc (MIN)	I (IN/HR)	Q (CFS)	DISCHARGE POINT
1	1.11	0.95	10.0	5.19	5.5	DRIVEWAY

DRAINAGE NOTE:
THIS IMPROVEMENTS WILL NOT ADVERSELY AFFECT THE PRE–EXISTING DRAINAGE CONDITIONS OF THE SITE. ALL NEW IMPROVEMENTS WILL BE PLACED OVER EXISTING IMPERVIOUS SURFACES.

CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA	CH. BEARING	CHORD
C1	158.79	441.50	20°36'27"	N79°51'58"W	157.94

GRADING AND DRAINAGE PLAN

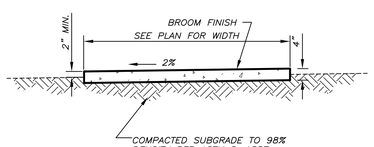
DISTURBED AREA = ±1.1–ACRES SCALE 1"= 20'–0"



NOTES:
1. *EXPANSION JOINT ARE REQUIRED EVERY 50' USING A PREMOLDED EXPANSION MATERIAL. ALL JOINTS DESIGN IN ACCORDANCE TO ACI 302.R–89 AND 360.R–92.*
2. *EXPANSION JOINT FILLER SHALL BE USED WHERE CONCRETE ABUTTS CURB, SIDEWALK, OR OTHER CONCRETE OR ROCK STRUCTURES. SONOMERIC 1 SELF–LEVELING JOINT SEALANT SHALL BE USED AT ALL EXPANSION JOINTS.*
3. *1/4"x2" TRANSVERSE JOINTS SAWCUT AT 10 FT O.C. EACH WAY WITH EXPANSION JOINT SEAL.*

RIGID PAVEMENT

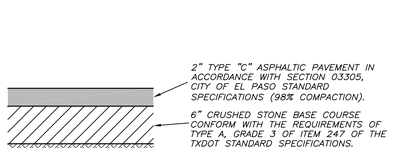
NOT TO SCALE



1. *CONCRETE TO BE 3000 PSI MINIMUM.*
2. *DUMMY JOINT REQUIRED AT 10' O.C. FOR HEADERS AND 5' O.C. FOR SIDEWALKS.*
3. *EXPANSION MATERIAL REQUIRED AT CURB RETURNS WITH 1/2" PREMOLDED ASPHALT IMPREGNATED EXPANSION MATERIAL OR EQUAL.*
4. *EXPANSION JOINTS REQUIRED AT 50' O.C. WHEN FORMING FOR HEADERS.*
5. *EXPANSION JOINTS REQUIRED FOR SIDEWALK AT 20' O.C.*

SIDEWALK

NOT TO SCALE



REFER TO FURTHER RECOMMENDATIONS IN THE GEOTECHNICAL REPORT PREPARED BY **SLOI ENGINEERS** PROJECT No. **J22–1–513** DATED APRIL 4, 2022.

ASPHALT PAVEMENT

NOT TO SCALE

LEGEND
- NEW BUILDING
- NEW ASPHALT PAVEMENT
- TC 59.30 — PROPOSED SPOT ELEVATION (TC=TOP OF CURB, GT=GUTTER, TS=TOP OF SIDEWALK, PV=PAVEMENT, GR=FINISHED GRADE, FF=FINISHED FLOOR)
- (62) — PROPOSED CONTOUR
- 3661 — EXISTING CONTOUR
- (RH=8.5') — RETAINING HEIGHT
- RUNOFF DIRECTION
- PROPOSED LOW POINT
- PROPOSED HIGH POINT
- SWALE
- LIMITS OF GRADING
- DRAINAGE LIMITS
- RETAINING WALL

GENERAL NOTES

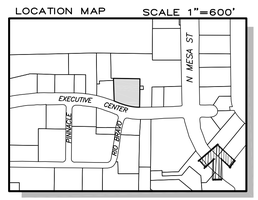
1. THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF AN ABSTRACT OF TITLE. THERE MAY BE EASEMENTS, OR OTHER MATTERS, NOT SHOWN.
2. BENCHMARK FOR ELEVATIONS SHOWN HEREON IS A CITY MONUMENT FOUND AT THE INTERSECTION OF WALLINGTON STREET RIGHT–OF–WAY LEFT OF ALLEY ADJACENT TO WESTSIDE CENTER SUBDIVISION UNIT 3. CITY DATUM ELEVATION: 3904.91'
3. CONTOUR INTERVAL IS 1' MINOR, 5' MAJOR.
4. THE METES AND BOUNDS USED FOR THIS SURVEY WERE THOSE ATTACHED TO THE EXISTING DEED REFERENCED HEREON. NEW METES AND BOUNDS DESCRIPTION WAS CREATED FROM THIS SURVEY.

UTILITY NOTES

1. THE LOCATION OF EXISTING UTILITIES SHOWN HEREON ARE FROM OBSERVED EVIDENCE OF ABOVE GROUND APPURTENANCES ONLY.
2. THE SURVEYOR WAS NOT PROVIDED WITH SURFACE GROUND MARKINGS OR EXCAVATIONS TO DETERMINE THE EXACT LOCATION OF ANY SUBTERRANEAN USES.
3. BEFORE DIGGING IN THIS AREA, CALL "TEXAS ONE–CALL" 1–800–545–6005 FOR FIELD LOCATIONS (REQUEST FOR GROUND MARKINGS) OF UNDERGROUND UTILITY LINES.

RAINWATER HARVESTING:
CONTRACTOR SHALL GRADE ALL NEW LANDSCAPING AREAS IN SUCH MANNER AS TO PROMOTE THE COLLECTION & STORAGE OF RAINWATER. LANDSCAPED SIDE SLOPES SHALL NOT EXCEED 3:1 AND PONDING DEPTH SHALL NOT EXCEED 12–INCHES. (TYPICAL).

LOCATION MAP SCALE 1"=600'



GENERAL NOTE:
ALL EXISTING AND PROPOSED SIDEWALKS, BARRIER FREE RAMPS, HANDICAP PARKING, DRIVEWAY CROSSWALK, DRIVEWAYS AND ACCESIBLE ROUTES SHALL COMPLY WITH A.D.A., T.A.S. AND CITY OF EL PASO REQUIREMENTS. ALL EXISTING INFRASTRUCTURE NOT COMPLYING SHALL BE REMOVED AND REPLACED TO MEET STANDARDS.

GENERAL NOTE:
AS PER CITY ORDINANCE 18.44; NO GRADING AND/OR SPILLING IS ALLOWED BEYOND THE CONSTRUCTION LIMITS. ANY SPILLING THAT CAUSES AN ADVERSE EFFECT TO THE SLOPES AND/OR OPEN SPACES AREAS SHOULD BE IMMEDIATELY RESTORED TO ITS NATURAL ESTATE.

LEGAL DESCRIPTION
LOT 1, BLOCK 1, ABHA SUBDIVISION, CITY OF EL PASO, EL PASO COUNTY, TEXAS (±1.11 ACRES) PID No. E978999000A0100.

FLOOD ZONE
ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP PANEL 480214–0032 C, THIS PROPERTY LIES IN FLOOD HAZARD ZONE "X" DATED FEB 5, 1986.

NO.	DATE	DESCRIPTION	BY
1	–	–	–
2	–	–	–

PREPARED BY:

SITEWORK
ENGINEERING L.L.C.
TX REG. # F–5607
444 EXECUTIVE CENTER BLVD., SUITE 134 – EL PASO, TX – 79902
PHONE (915) 351–8033 – FAX (915) 351–8055

STATE OF TEXAS — JORGE A. GARCIA — 86437 — LICENSED PROFESSIONAL ENGINEER — 07/26/2023

A PROPOSED NEW RETAIL CENTER AT 403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

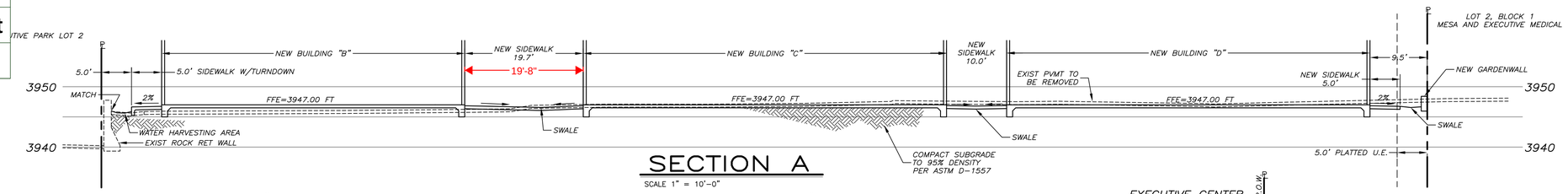
psrbb ARCHITECTS
"Keeping it Simple by Design"
www.psrbbarch.com
1810 Wyoming ave
el paso, tx 79903
ph: 915.534.8082
fax: 915.534.8083

COMMISSION No. 23-010
DATE: 06-07-2023
REVISIONS
Description Date

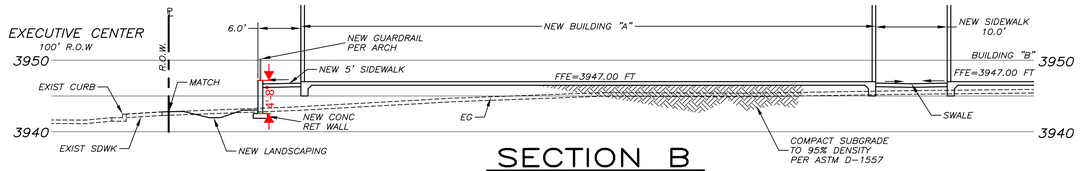
SHEET: **C-1**
1 OF 3

Legend

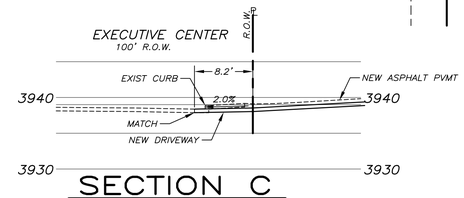
	Description	Quantity	Unit
⟷	Length Measurement	2.6667	ft



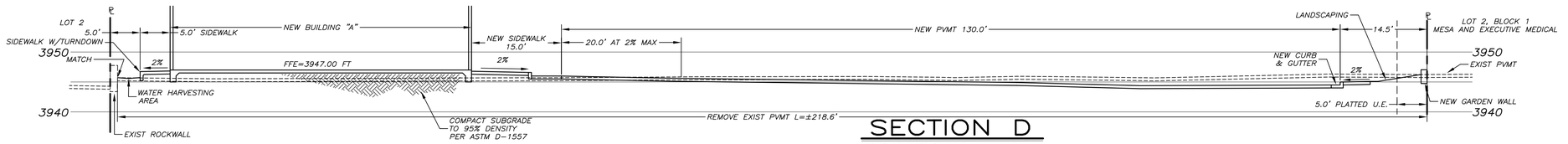
SECTION A
SCALE 1" = 10'-0"



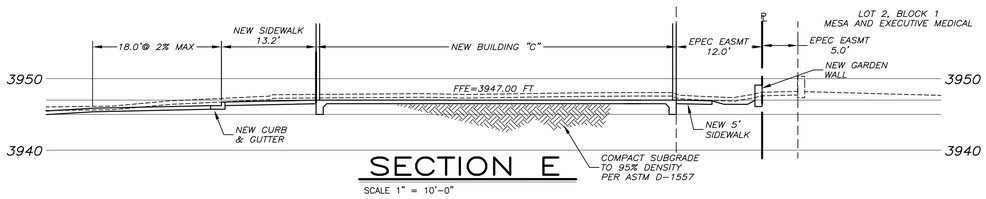
SECTION B
SCALE 1" = 10'-0"



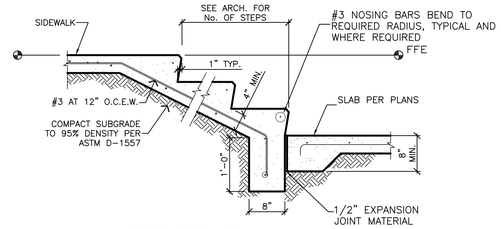
SECTION C
SCALE 1" = 10'-0"



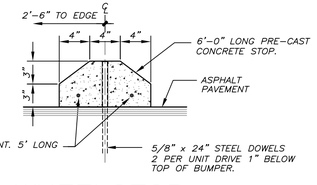
SECTION D
SCALE 1" = 10'-0"



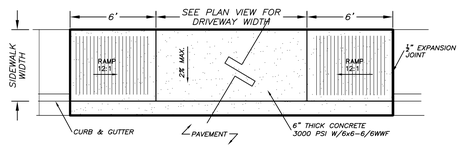
SECTION E
SCALE 1" = 10'-0"



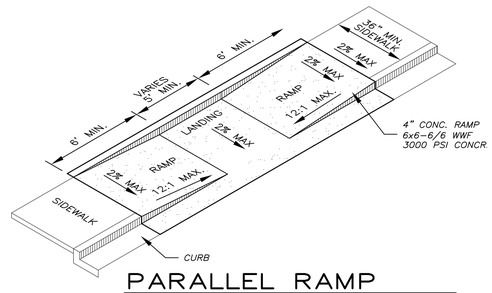
③ SECTION
SCALE: 3/4" = 1'-0"



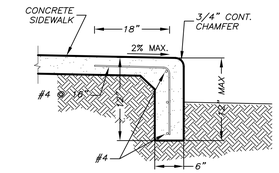
WHEELSTOP
NOT TO SCALE



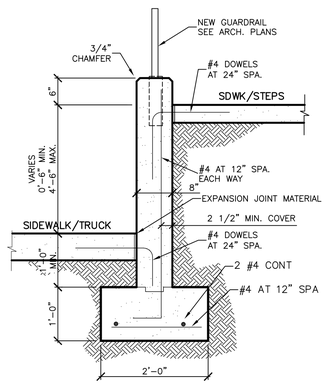
DRIVEPAD DETAIL
SCALE 1" = 5'-0"



PARALLEL RAMP
NOT TO SCALE

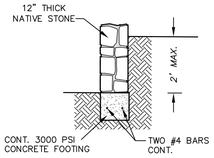


DETAIL
NOT TO SCALE



THIS DETAIL IS APPLICABLE FOR THE ACCESIBLE RAMP SIDE WALL.

① DETAIL
SCALE: 3/4" = 1' - 0"

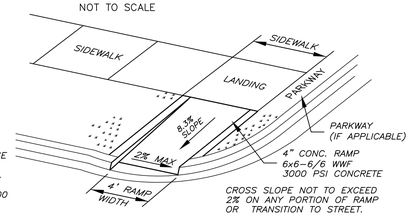


SECTION VIEW

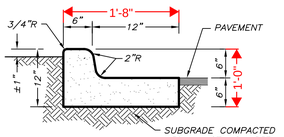
ROCKWALL NOTES:

1. STONE FOR ROCKWALLS SHALL BE SOUND AND FREE FROM LOOSE OR FRIABLE INCLUSIONS. THE STONE SHALL BE DENSE AND RESISTANT TO THE ACTION OF AIR AND WATER. THE STONE SHALL BE AS NEARLY UNIFORM IN SECTION AS IS PRACTICABLE.
2. MORTAR FOR ROCKWALLS SHALL BE ASTM C-270, TYPE "S" (1800 PSI MIN. AT 28 DAYS) AND PROPORTIONED BY VOLUME AS FOLLOWS:
   PORTLAND CEMENT: 1 (ONE) PART
   LIME: 1/4 PART
   SAND: 3-1/2 PARTS
3. CONCRETE FOR ROCKWALL FOOTING SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. REINFORCING STEEL SHALL MEET THE REQUIREMENTS FOR ASTM A-615, GRADE 60.
4. ROCKWALL FOOTING SHALL BEAR ON 12" ENGINEERED FILL, COMPACTED TO 95% DENSITY AS PER ASTM D1557.
5. OVER-EXCAVATION FOR ROCKWALL FOOTING SHALL BE BACKFILLED WITH LEAN CONCRETE.
6. ROCK SHALL BE EMBEDED 4-INCHES (MIN.) INTO FOOTING WHILE CONCRETE IS PLASTIC.
7. EXPANSION JOINTS REQUIRED AT 100' MAX. SPACING. IF THERE IS AN ELEVATION DIFFERENCE OF 2 FEET OR GREATER ON EITHER SIDE OF THE ROCKWALL, A RETAINING WALL SHALL BE DESIGNED BY A PROFESSIONAL STRUCTURAL ENGINEER.

GARDEN WALL
SCALE: 1" = 2' - 0"



DIRECTIONAL RAMP
NOT TO SCALE



NOTES:

1. CONCRETE TO BE 3000 PSI MIN
2. DUMMY JOINT REQUIRED AT 10' O.C.
3. EXPANSION MATERIAL REQUIRED AT CURB RETURNS WITH 1/2" PREMOLDED ASPHALT IMPREGNATED EXPANSION MATERIAL OR EQUAL.
4. EXPANSION JOINTS REQUIRED AT 50' O.C. WHEN FORMING.

CURB & GUTTER
NOT TO SCALE

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STATE OF TEXAS
JORGE A. GARCIA
86437
LICENSED
PROFESSIONAL ENGINEER
01/20/2023

A PROPOSED NEW
RETAIL CENTER
AT
403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

psrb ARCHITECTS
Design by Design
1810 Wyoming ave
el paso, tx 79902
ph:915.534.8082
fax:915.534.8083
www.psrbarch.com

COMMISSION No. 23-010
DATE: 06-07-2023

REVISIONS

#	Description	Date
1	–	–
2	–	–

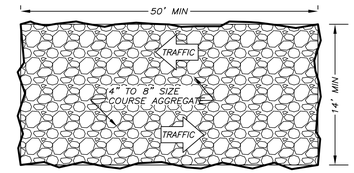
PREPARED BY:
SITEWORK
ENGINEERING L.L.C.
TX REG. # F-5607
444 EXECUTIVE CENTER BLVD., SUITE 134 – EL PASO, TX – 79902
PHONE (915) 351-8033 – FAX (915) 351-8055

SHEET: **C-2**
2 OF 3

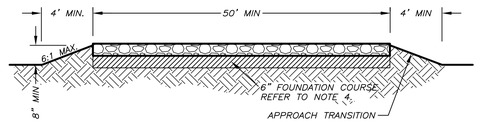
C:\23037 403 Executive\Civil\23037 Civil.dwg, 7/28/2023 10:25:56 AM, JAG

Legend

	Description	Quantity	Unit
	Cons exit - 4" to 8" open graded coarse aggregate construction exit + 6" thick portland cement concrete base	700	sf
	Silt fence - Temprary silt fence w/ 4' high (min.) steel or wood posts spaced at 6' to 8' o.c. w/ Galv. W.W.M (12.5 GA. min.) 2" x 4" max. opening size w/ 3' high woven filter fabric	863.27	ft



PLAN VIEW



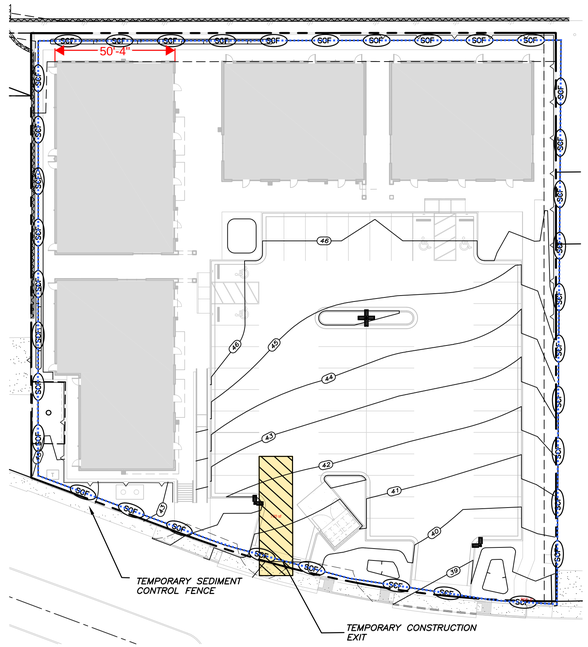
PROFILE

GENERAL NOTES

1. THE LENGTH OF THE TYPE 1 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, BUT NOT LESS THAN 50'.
2. THE COARSE AGGREGATE SHOULD BE OPEN GRADED WITH A SIZE OF 4" TO 8".
3. THE APPROACH TRANSITIONS SHOULD BE NO STEEPER THAN 6:1.
4. THE CONSTRUCTION EXIT FOUNDATION COURSE SHALL BE FLEXIBLE BASE, BITUMINOUS CONCRETE, PORTLAND CEMENT CONCRETE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER.
5. THE CONSTRUCTION EXIT SHALL BE GRADED TO ALLOW DRAINAGE TO A SEDIMENT TRAPPING DEVICE.
6. THE FINAL LOCATION OF THE CONSTRUCTION EXIT CAN BE AT THE DISCRETION OF THE CONTRACTOR, HOWEVER, THE INSTALLATION OF THE CONSTRUCTION EXIT CANNOT BE OMITTED.

CONSTRUCTION EXIT (TYPE 1)

NOT TO SCALE



STORMWATER POLLUTION PREVENTION PLAN

DISTURBED AREA = ±1.11-ACRES

SCALE: 1" = 30'-0"

DRAINAGE PLAN:

DRAINAGE PLAN IS ATTACHED TO THIS PLAN SET.

TYPES OF SOILS DISTURBANCES

MAJOR SOIL DISTURBING ACTIVITIES WILL CONSIST OF CLEARING AND GRUBBING; FINAL GRADING FOR CONSTRUCTION OF A NEW BUILDING; EXCAVATION FOR FLUMES AND OTHER DRAINAGE APPURTENANCES.

NAME OF RECEIVING WATERS:

STORM RUNOFF DISCHARGED WILL NOT BE AFFECTED OR CHANGED AND WILL MAINTAIN EXISTING DRAINAGE PATTERNS. LANDSCAPE RETENTION WILL MAINTIAN NEW IMPERVIOUS ONLY.

CONSTRUCTION PHASING:

1. INSTALL EROSION AND SEDIMENT CONTROLS (e.g. SILT FENCE AND/OR EARTHEN BERM, AND STABILIZED CONSTRUCTION ENTRANCE).
2. PERFORM CLEARING AND GRUBBING;
3. EXCAVATION FOR UTILITIES;
4. SELECTIVE DEMOLITION OPERATIONS;
5. COMPLETE LOT GRADING;
6. CONSTRUCTION OF SITE IMPROVEMENTS;

SOIL STABILIZATION PRACTICES:

- ☐ TEMPORARY SEEDING
- ☒ PERMANENT PLANTING, SODDING OR SEEDING (OPTIONAL)
- ☐ MULCHING
- ☐ SOIL RETENTION BLANKET
- ☒ PRESERVATION OF NATURAL RESOURCES
- ☐ OTHER:

STRUCTURAL CONTROL PRACTICES:

- ☒ SILT FENCES
- ☐ HAY BALES
- ☐ ROCK BERMS
- ☐ EARTH DIKE/BERM
- ☐ SEDIMENT TRAP
- ☐ PAVED FLUMES
- ☐ CHANNEL LINERS
- ☐ EARTHEN SWALES
- ☐ DRAINAGE SWALES
- ☐ PIPE SLOPE DRAINS
- ☒ STABILIZED CONSTRUCTION ENTRANCE
- ☐ FILTER FABRIC INLET PROTECTION

STORMWATER MANAGEMENT CONTROLS:

- ☐ RETENTION POND
- ☐ DETENTION POND
- ☐ INFILTRATION MEASURES
- ☐ VEGETATED SWALES & NATURAL DEPRESSIONS
- ☐ DRAINAGE CHANNEL
- ☐ LOT GRADING
- ☐ CATCH BASINS
- ☒ CURB AND GUTTER
- ☐ STORM SEWER
- ☐ DESILTING BASIN
- ☐ RIP-RAP OUTLET APRON
- ☐ OTHER: SILLING BASIN

SPILL CONTROL PRACTICES:

- MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES;
- MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON-SITE;
- ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY;
- SPILL AREA SHALL BE WELL VENTILATED AND APPROPRIATE CLOTHING WILL BE WORN;
- ANY SPILL SHALL BE REPORTED TO THE APPROPRIATE GOVERNMENTAL AGENCY.
- MEASURES SHALL BE TAKEN TO PREVENT A SPILL TO REOCCUR.

MAINTENANCE AND INSPECTION PROCEDURES:

ALL POLLUTION PREVENTION MEASURES SHALL BE INSPECTED AT LEAST ONCE A WEEK OR WITHIN 24-HOURS FOLLOWING A STORM EVENT OF 0.5 INCHES OR MORE. INSPECTION IN FINAL STABILIZED AREAS OR DURING ARID PERIODS WILL BE CONDUCTED MONTHLY. BEST MANAGEMENT PRACTICES AND POLLUTION CONTROL PROCEDURES SHALL BE INSPECTED FOR ADEQUACY.

BEST MANAGEMENT PRACTICES CONTROLS:

1.–STRUCTURAL MEASURES SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT IN EFFECTIVE OPERATING CONDITION.
2.–DOCUMENTATION OF MAINTENANCE ACTIVITIES INCLUDING FREQUENCY, LOT DESIGNATION, INSPECTION OF STRUCTURAL CONTROLS, MAT'L STORAGE AREAS VEHICLES ENTRANCE AND EXITS: ACTIONS TAKEN AND INSPECTOR NAME.
3.–CONSTRUCTION SITE NOTICE WILL BE MAINTAINED ON SITE.
4.–COPY OF SWPPP SHALL BE KEPT ON SITE.
5.–PERIMETER MUST RETAIN THE SWPS NOI AND INSPECTION LOG FOR A MINIMUM OF 3 YEARS FROM THE TERMINATION AND FINAL STABILIZATION OF PROJECT.

WASTE MATERIALS:

ALL WASTE MATERIALS INCLUDING CONSTRUCTION DEBRIS, SHALL BE COLLECTED AND STORED IN A SECURELY LEGGED METAL DUMPSTER. NO CONSTRUCTION WASTE MATERIAL SHALL BE BURIED ON SITE. THE TRANSIT DUMPSTER SHALL COMPLY WITH APPLICABLE STATE AND LOCAL SOLID WASTE MANAGEMENT REGULATION. THE DUMPSTER SHALL BE EMPTIED AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION AND THE TRASH SHALL BE HAULED TO A LICENSED LANDFILL.

HAZARDOUS WASTE:

AT A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORIES SHALL BE CONSIDERED HAZARDOUS: PAINT, ACIDS FOR CLEANING MASONRY SURFACES, CLEANING SOLVENTS, ASPHALT PRODUCTS, CHEMICAL ADDITIVES FOR SPILL STABILIZATION, CURING COMPOUNDS AND ADDITIVES. IN THE EVENT OF A SPILL WHICH MAY BE HAZARDOUS, THE CONTRACTOR SHALL TAKE IMMEDIATE ACTION AND CONTACT THE APPROPRIATE AUTHORITIES.

SANITARY WASTE:

ALL SANITARY WASTE SHALL BE COLLECTED FROM THE CONSTRUCTION PORTABLE UNITS AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR. ALL WASTE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

OFF-SITE VEHICLE TRACKING:

IN ADDITION TO THE STABILIZED CONSTRUCTION ENTRANCE(S). THE FOLLOWING MEASURES SHALL BE OBSERVED DURING CONSTRUCTION:
- HAUL ROADS SHALL BE DAMPENED FOR DUST CONTROL
- LOADED HAUL TRUCKS SHALL BE COVERED WITH TARPAULINS
- EXCESS DIRT ON ROAD SHALL BE REMOVED DAILY

SPILL PREVENTION:

THE FOLLOWING PRACTICES SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURES OF MATERIALS TO STORMWATER RUNOFF.

GOOD HOUSEKEEPING:

- STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
- NEATLY STORE MATERIALS ON-SITE IN AN ORDERLY MANNER
- KEEP PRODUCTS IN THEIR ORIGINAL CONTAINER
- DO NOT MIX SUBSTANCES WITH ONE ANOTHER, UNLESS OTHERWISE RECOMMENDED BY THE MANUFACTURER
- USE ENTIRE CONTENTS OF A PRODUCT BEFORE DISPOSING THE CONTAINER
- FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.

HAZARDOUS PRODUCTS:

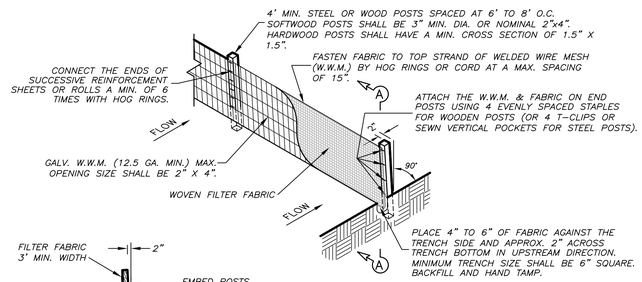
PRACTICES USED TO REDUCE RISKS:
- KEEP PRODUCTS IN THEIR ORIGINAL CONTAINER IF AT ALL POSSIBLE
- RETAIN ORIGINAL LABELS, PRODUCT INFORMATION AND MATERIAL SAFETY SHEETS
- DISPOSE SURPLUS PRODUCT IN ACCORDANCE WITH MANUFACTURER'S OR LOCAL AND STATE RECOMMENDED METHODS.

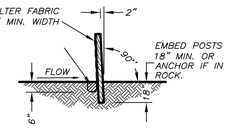
PETROLEUM PRODUCTS:

ALL ON-SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ON-SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION.

REMARKS:

DISPOSAL AREAS, STOCKPILES, AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNT OF SEDIMENT THAT MAY ENTER RECEIVING WATERS. DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY WETLAND, WATERBODY OR STREAMBED. CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS. ALL WATERWAYS SHALL BE CLEANED AS SOON AS PRACTICABLE OF TEMPORARY EMBANKMENT, TEMPORARY BRIDGES, MATTING, FALSEWORK, PILING, DEBRIS OR OTHER OBSTRUCTIONS PLACED DURING CONSTRUCTION OPERATIONS THAT ARE NOT A PART OF THE FINISHED WORK.





SECTION A–A

SEDIMENT CONTROL FENCE USAGE GUIDELINES

A SEDIMENT CONTROL FENCE MAY BE CONSTRUCTED NEAR THE DOWNSTREAM PERIMETER OF A DISTURBED AREA ALONG A CONTOUR TO INTERCEPT SEDIMENT FROM OVERLAND RUNOFF. A 2 YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE TO BE FILTERED.

SEDIMENT CONTROL FENCE SHOULD BE SIZED TO FILTER A MAX. FLOW THROUGH RATE OF 100 GPM/FT2. SEDIMENT CONTROL FENCE IS NOT RECOMMENDED TO CONTROL EROSION FROM A DRAINAGE AREA LARGER THAN 2 ACRES.

TEMPORARY SEDIMENT CONTROL FENCE

SCF

NOT TO SCALE

Construction General Permit — TPDES General Permit TXR150000

Attachment I

SMALL CONSTRUCTION SITE NOTICE: LOW POTENTIAL FOR EROSION

FOR THE
Texas Commission on Environmental Quality (TCEQ)
Storm Water Program

TPDES GENERAL PERMIT TXR150000

The following information is posted in compliance with **Part II.E.1.** of the TCEQ General Permit Number TXR150000 for discharges of storm water runoff from small construction sites automatically authorized based on low rainfall erosivity. Additional information regarding the TCEQ storm water permit program may be found on the internet at:
http://www.tceq.state.tx.us/nav/permits/wq_construction.html

Operator Name:	
Contact Name and Phone Number:	
Project Description: (Physical address or description of the site's location, estimated start date and projected end date, or date that disturbed soils will be stabilized)	LOT 1, BLOCK 1, ABHA SUBDIVISION, CITY OF EL PASO, EL PASO COUNTY, TEXAS (±1.11 ACRES) PID No. E97899000A0100.

For Small Construction Sites Authorized Under Part II.E.1., the following certification must be completed:

I _____ (Typed or Printed Name Person Completing This Certification) certify under penalty of law that I have read and understand the eligibility requirements for claiming an automatic authorization based on low rainfall erosivity under Part II.E.1. of TPDES General Permit TXR150000 and agree to comply with the terms of this permit. Construction activities at this site shall occur within a time period listed in Appendix A of the TPDES general permit for this county, that period beginning on _____ and ending on _____. I understand that if construction activities continue past this period, all storm water runoff must be authorized under a separate provision of the general permit. A copy of this signed notice is supplied to the operator of the MS4 if discharges enter an MS4. I am aware there are significant penalties for providing false information or for conducting unauthorized discharges, including the possibility of fine and imprisonment for knowing violations.

Signature and Title _____ Date _____

_____ *Date Notice Removed*
_____ *MS4 operator notified per Part II.F.3.*

Attachment 2
Page 47

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R:\23037 403 Executive\Cad\23037 Cit4.dwg, 7/28/2023 10:25:59 AM, JAG

STATE OF TEXAS
JORGE A. GARCIA
86437
LICENSED
PROFESSIONAL ENGINEER
07/28/2023

A PROPOSED NEW
RETAIL CENTER
AT
403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

1810 Wyoming ave
el paso tx 79902
ph:915.534.8082
fax:915.534.8083
psrbARCHITECTS
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COMMISSION No. 23-010

DATE: 06-07-2023

REVISIONS

NO.	DATE	DESCRIPTION	BY
1	–	–	–
2	–	–	–

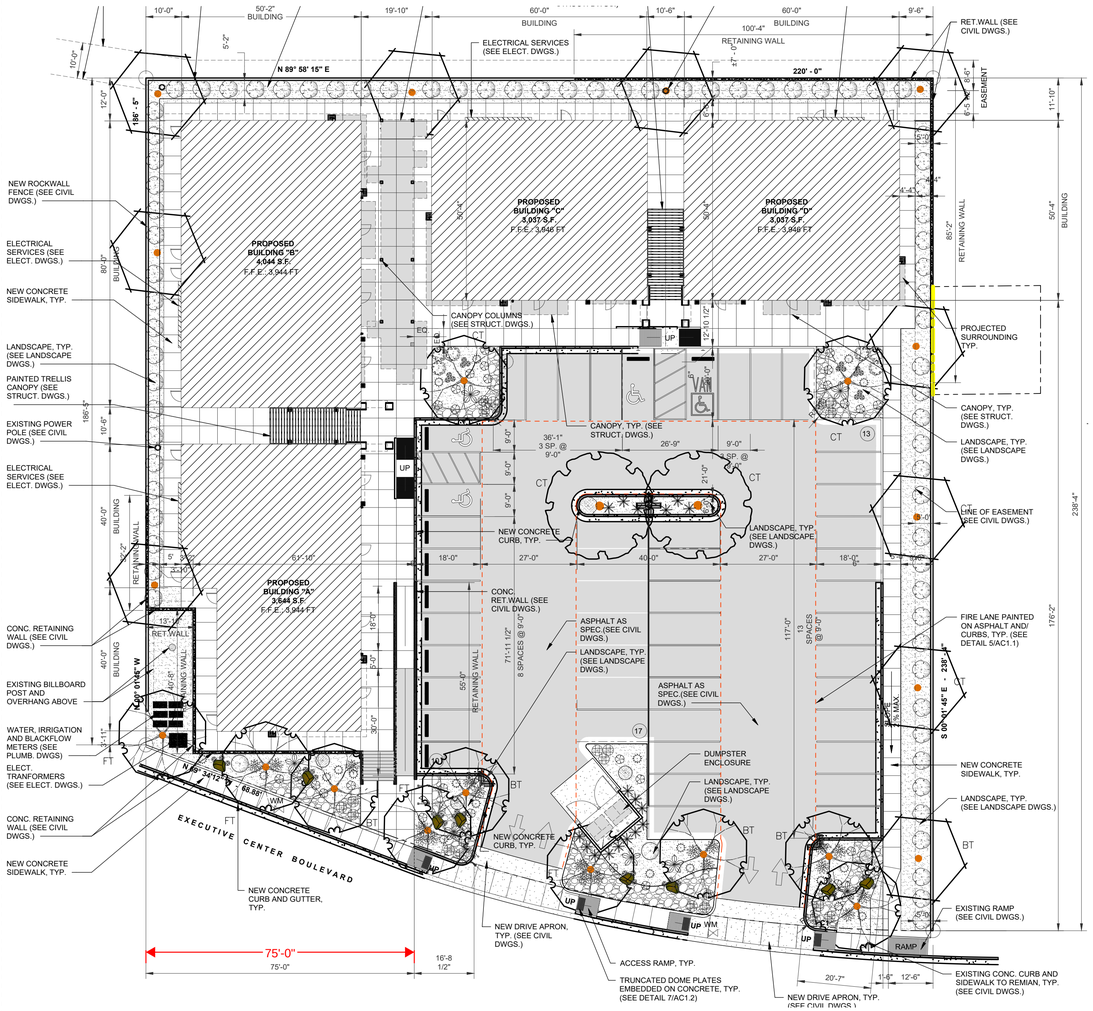
#	Description	Date

PREPARED BY:

SITEWORK
ENGINEERING L.L.C.
TX REG. # F-5607
444 EXECUTIVE CENTER BLVD., SUITE 134 – EL PASO, TX – 79902
PHONE (915) 351-8033 – FAX (915) 351-8055

SHEET: **C-3**

3 OF 3



LANDSCAPE PLAN

SCALE: 1" = 20'-0"

GENERAL NOTES

A. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING AND PROPOSED UTILITIES AND ALL SITE CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.

B. ALL LANDSCAPED AREAS MUST BE COVERED WITH LANDSCAPE ROCK (UNLESS OTHERWISE SPECIFIED). ALL ROCK MUST BE INSTALLED 3" THICK, 1" BELOW TOP OF CURB UNDERLAID WITH NON-WOVEN POLYPROPYLENE WEED BARRIER. WEED BARRIER MUST NOT WEIGHT LESS THAN 3oz. PER SQUARE YARD.

C. ANY PLANT CHANGES AND/OR SUBSTITUTIONS MUST BE APPROVED BY DESIGNER BEFORE SUCH CHANGES ARE MADE.

8-3"X3"X4" RAINBOW BOULDERS

LANDSCAPE ORDINANCE

TOTAL LANDSCAPE AREA REQUIRED:
49,346 SITE SF - 13,762 = 35,584 SF X 15% = 5,338 SQ. FT.

PROPOSED LANDSCAPE: 7,883 SQ. FT.

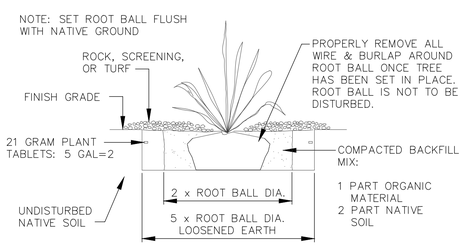
PLANT QUANTITIES	REQUIRED	PROPOSED
QTY. OF PROJECT TREES	6	8
QTY. OF CANOPY TREES	5	5
QTY. OF FRONTAGE TREES	5	5
QTY. OF BUFFER TREES	5	5
QTY. OF 5 GAL. SHRUBS	240	243
QTY. OF 15 GAL. SHRUBS	0	0

APPROX. 6,670 SQ. FT. OF 3/4" PADRE CANYON ROCK

APPROX. 962 SQ. FT. OF 3/4" PADRE CANYON ROCK

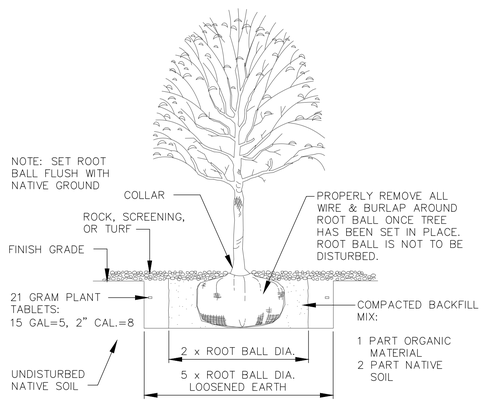
PLANT SCHEDULE

TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER
	10	Fraxinus x `Fan-West`	Fan-West Ash	2"-2 1/2" CAL, 10`-12` H	B&B
	11	Parkinsonia x `Desert Museum`	Desert Museum Palo Verde	2"-2 1/2" CAL, 10`-12` H	B&B
	2	Pistacia chinensis	Chinese Pistache	2"-2 1/2" CAL, 10`-12` H	B&B
SHRUBS	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**SIZE**	**CONTAINER**
	7	Agave americana blue	Century Plant	18"-24" H	5 Gal
	32	Delosperma deleeuwiae	Hardy Ice Plant	18"-24" H	5 Gal
	20	Echinocactus grusonii	Golden Barrel Cactus	10"-14" H	5 Gal
	2	Fouquieria splendens	Ocotillo	18"-24" H	5 Gal
	4	Hesperaloe chiangii	Giant Hesperaloe	18"-24" H	5 Gal
	19	Lantana camara `Dallas Red`	Dallas Red Lantana	18"-24" H	5 Gal
	21	Lantana montevidensis `Purple``	Purple Lantana	18"-24" H	5 Gal
	2	Lantana x `New Gold`	New Gold Lantana	18"-24" H	5 Gal
	6	Leucophyllum frutescens `Green Cloud` TM	Green Cloud Texas Ranger	18"-24" H	5 Gal
	18	Muhlenbergia capillaris `Regal Mist` TM	Muhly	18"-24" H	5 Gal
	75	Nerium oleander `Little Red` TM	Little Red Oleander	18"-24" H	5 Gal
	37	Stipa tenacissima	Mexican Feather Grass	18"-24" H	5 Gal



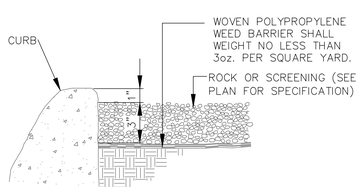
SHRUB PLANTING DETAIL

NOT TO SCALE



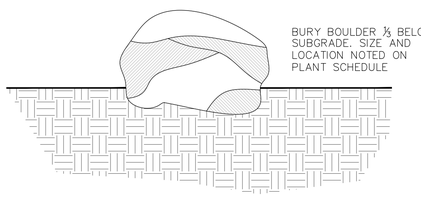
TREE PLANTING DETAIL

NOT TO SCALE



ROCK/SCREENING DETAIL

NOT TO SCALE



BOULDER DETAIL

NOT TO SCALE

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Landscaping & Sprinklers, INC.
5505 Rosa El Paso, Tx 79905
Phone: 533-4111 essentialls@att.net

FOR CONSTRUCTION

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LANDSCAPE PLAN

COMMISSION No. 23-010

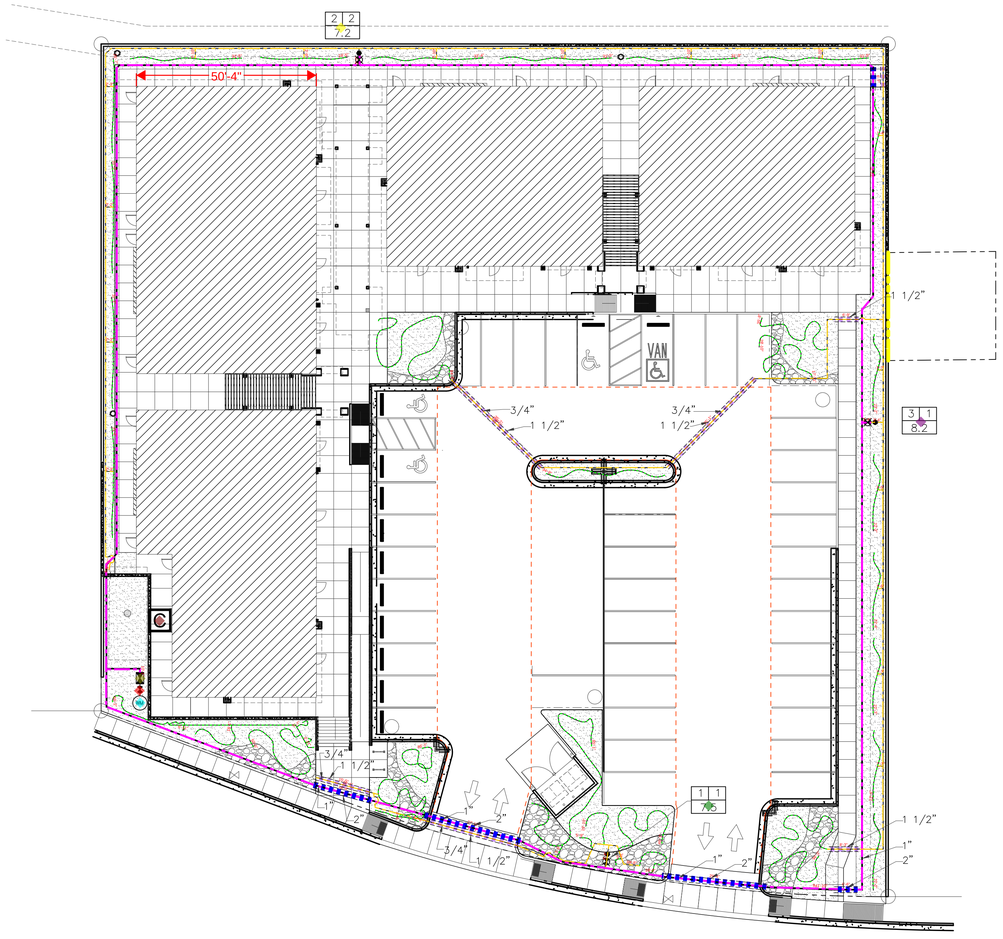
DATE: 06-07-2023

REVISIONS

#	Description	Date

SHEET: **L1.0**

1 OF 12



IRRIGATION PLAN

SCALE: 1" = 20'-0"

GENERAL NOTES

A. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING AN UTILITIES AND ALL SITE CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. A CAUSED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT NO A COST TO THE OWNER.

B. LOCATE ALL VALVES AWAY FROM LOW SPOTS OR AREAS OF DRAINAGE FLO

C. MAINTAIN 4" MINIMUM CLEARANCE BETWEEN PIPE RUNNING IN THE SAME TR CONTROL WIRE SHALL ALWAYS BE TO THE SIDE AND BELOW THE TOP OF T RUNNING IN THE SAME TRENCH.

D. ALL PIPING/WIRING RUNNING BENEATH PAVED SURFACES (DRIVES, SIDEWALK SHALL BE INSTALLED IN CLASS 200 PVC SLEEVES. SLEEVES SHALL BE OF THAT THE INSIDE DIAMETER OF THE SLEEVE IS 2 PIPE SIZES GREATER THA THE COMBINED OUTER DIAMETER OF ALL ITEMS INSTALLED IN THE SLEEVES.

E. THE CONTRACTOR WILL NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS WHEN IT IS OBVIOUS THAT FIELD CONDITIONS EXIST, THAT WERE NOT CONSI TIME OF DESIGNING THE SYSTEM. ANY CONDITIONS NOTED AS SUCH, SHALL TO THE ARCHITECT AND IRRIGATION DESIGNER. IF THE CONTRACTOR FAILS THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR ANY CORRECTIONS N

F. ALL CONTROL WIRING FROM THE VALVES TO THE CONTROLLER MUST BE INS 1" PVC CONDUIT PIPE IF BURIED BENEATH CONCRETE OR ASPHALT SURFAC

G. CONTRACTOR IS RESPONSIBLE FOR CONNECTING AUTOMATIC CONTROLLER TO

Legend

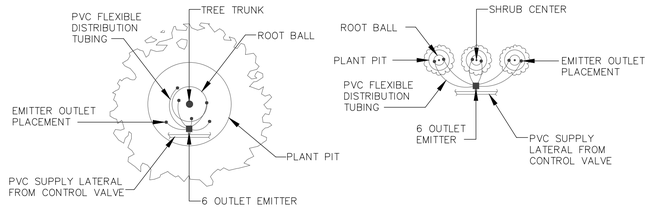
	Subject	Quantity	Unit
	Irrigation - 1-1/2" lateral line, Class 200	134.77	ft
	Irrigation - 1-1/4" wilkins model 600C pressure reducing valve	1	Count
	Irrigation - 1" Febco 825Y reduced pressure backflow preventer	1	Count
	Irrigation - 1" PVC msin line, Class 200	856.91	ft
	Irrigation - 1" rainbird remote control valve-PEB series w/ rainbird wye filter mod. RBY-100 and PSI-M30 regulator, 7.5 GPM	1	Count
	Irrigation - 1" rainbird remote control valve-PEB series w/ rainbird wye filter mod. RBY-100 and PSI-M30 regulator, 8.2 GPM	1	Count
	Irrigation - 1" watermeter + 1" copper type "L"	1	Count
	Irrigation - 2" lateral line, Class 200	86.95	ft
	Irrigation - 2" rainbird remote control valve-PEB series w/ rainbird wye filter mod. RBY-100 and PSI-M30 regulator, 7.2 GPM	1	Count
	Irrigation - 3/4" poly tubing	1,180.81	ft
	Irrigation - 3/4" PVC msin line, Class 200	915.69	ft
	Irrigation - Rainird ESP3-ME electric controller	1	Count

A | B / C	A) STATION NUMBER B) SIZE OF VALVE IN INCHES C) TOTAL GPM
WM	NEW 1" WATER METER. CONNECT TO DOMESTIC LINE WITH 1" COPPER TYPE "L" FROM METER TO BACKFLOW.

IRRIGATION IS REGULATED BE TEXAS NATURAL RESOURCE CONSERVATION COMMISSION, P.O. BOX 13087, AUSTIN TEXAS 78711–3087.

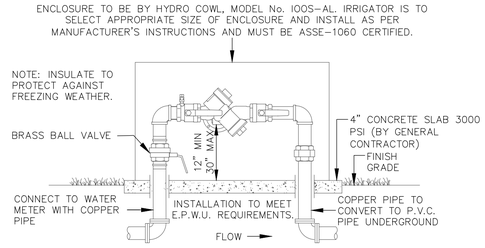
NOTE:

RAINBIRD MODEL XB–20PC (USE 3/4" POLYETHYLENE TUBING). 2 GPH DRIP EMITTER. CAPILLARY TUBING WITH E.O.C.V.S./STAKES, INSTALL 6 EMITTERS PER TREE, 4 EMITTERS PER PALM, 3 EMITTERS PER 15 GAL SHRUB, 2 EMITTERS PER 5 GAL SHRUB AND 1 EMITTER PER 1 GAL AND PER 5 GAL DROUGHT TOLERANT SHRUB, 1–.5 EMITTER PER CACTI (XB05 EMIITER). SEE PLANTING SCHEDULE FOR PLANT INFORMATION.



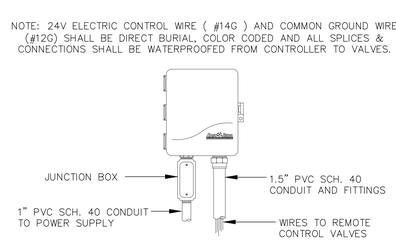
EMITTER OUTLET PLACEMENT DETAIL

NOT TO SCALE



RPA FEBCO Mo.825Y DETAIL

NOT TO SCALE



RAINBIRD ESP CONTROLLER DETAIL

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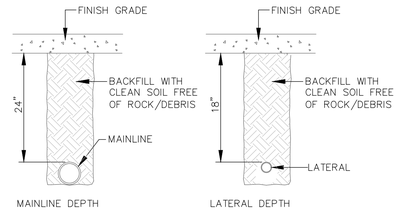

TRENCH STANDARD DETAIL

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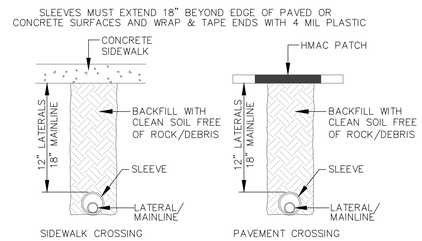

SLEEVING STANDARD DETAIL

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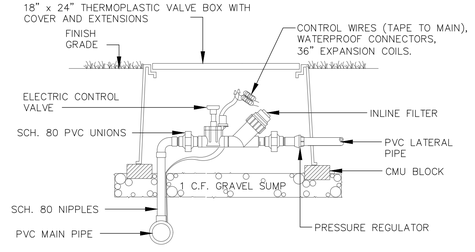

ELECTRIC CONTROL VALVE W/ FILTER DETAIL

NOT TO SCALE

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AT
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1810 Wyoming ave
el paso, tx 79903
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IRRIGATION PLAN

COMMISSION No. 23-010

DATE: 06-07-2023

REVISIONS

#	Description	Date

SHEET: **L2.0**

2 OF 12

Patricia Garcia
STATE OF TEXAS
CARLOS STEVEN ARANDA
4554
LICENSED IRRIGATOR

AUGUST 09, 2023

Essential Landscaping & Sprinklers, INC.
5505 Rosa El Paso, Tx 79905
Phone: 533–4111 essentialls@att.net

FOR CONSTRUCTION

Texas 811
Know what's below. Call before you dig.
Call 811 TWO Working Days Before You Dig. It's Free, It's Easy, and IT'S THE LAW!

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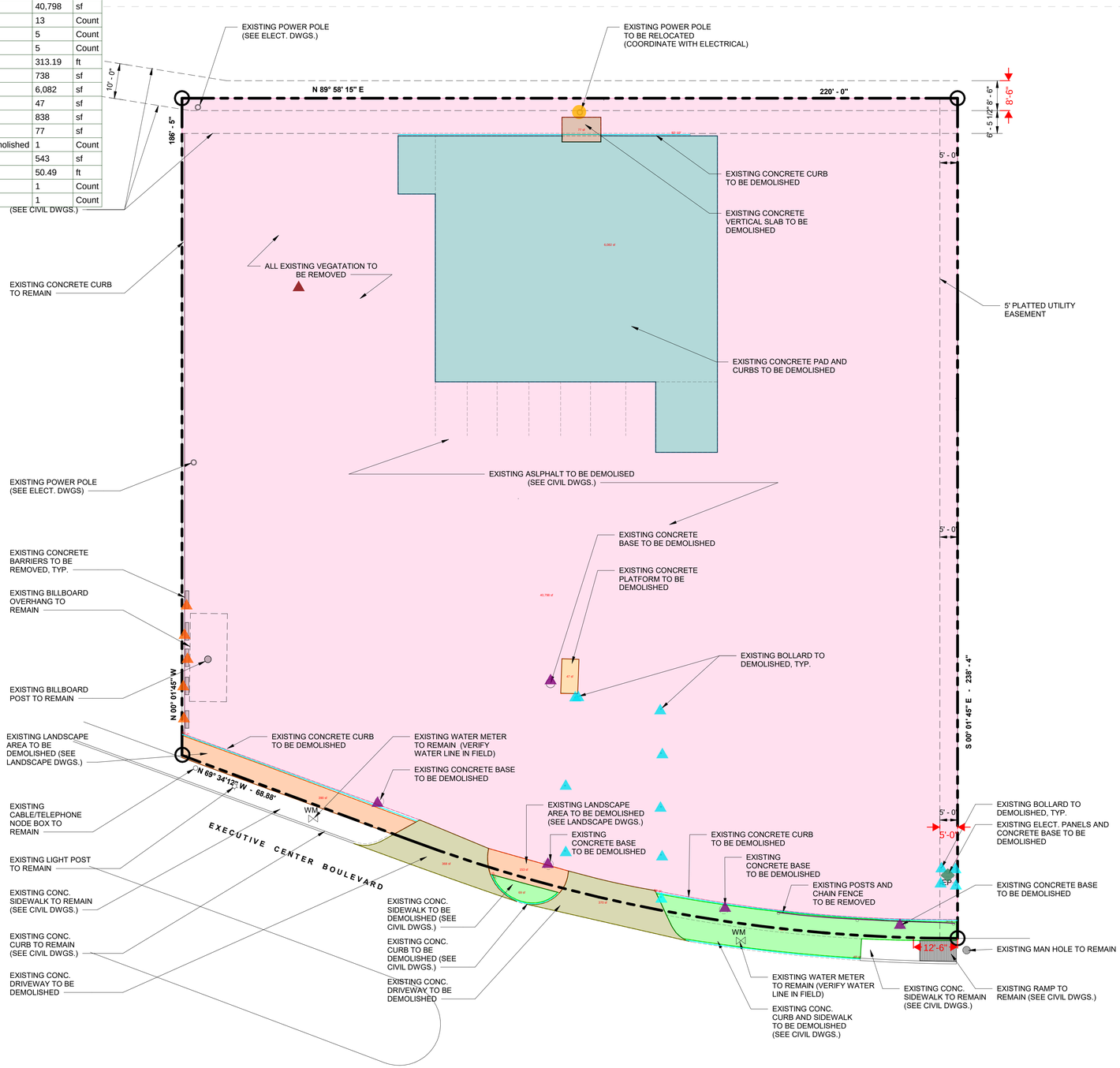
Legend

	Description	Quantity	Unit
	Demo - Existing asphalt to be demolished	40,798	sf
	Demo - Existing bollard demolished	13	Count
	Demo - Existing concrete barriers to be removed	5	Count
	Demo - Existing concrete base to be demolished	5	Count
	Demo - Existing concrete curb to be demolished	313.19	ft
	Demo - Existing concrete driveway to be demolished	738	sf
	Demo - Existing concrete pad & curbs to be demolished	6,082	sf
	Demo - Existing concrete platform to be demolished	47	sf
	Demo - Existing concrete sidewalk to be demolished	838	sf
	Demo - Existing concrete vertical slab to be demolished	77	sf
	Demo - Existing electrical panel & concrete base to be demolished	1	Count
	Demo - Existing landscape area to be demolished	543	sf
	Demo - Existing posts and chain fence to be removed	50.49	ft
	Demo - Existing power pole to be removed & relocated	1	Count
	Demo - Existing vegetation to be demolished	1	Count



1 DEMOLITION SITE PLAN

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

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REGISTERED ARCHITECT
CHARLES MARSHALL
26457
STATE OF TEXAS

ABHA RETAIL CENTER

AT

403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

1810 Wyoming ave
el paso,tx 79903
ph:915.534.8082
fax:915.534.8083

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DEMOLITION SITE PLAN

COMMISSION No. 23-010

DATE: 08-14-2023

REVISIONS

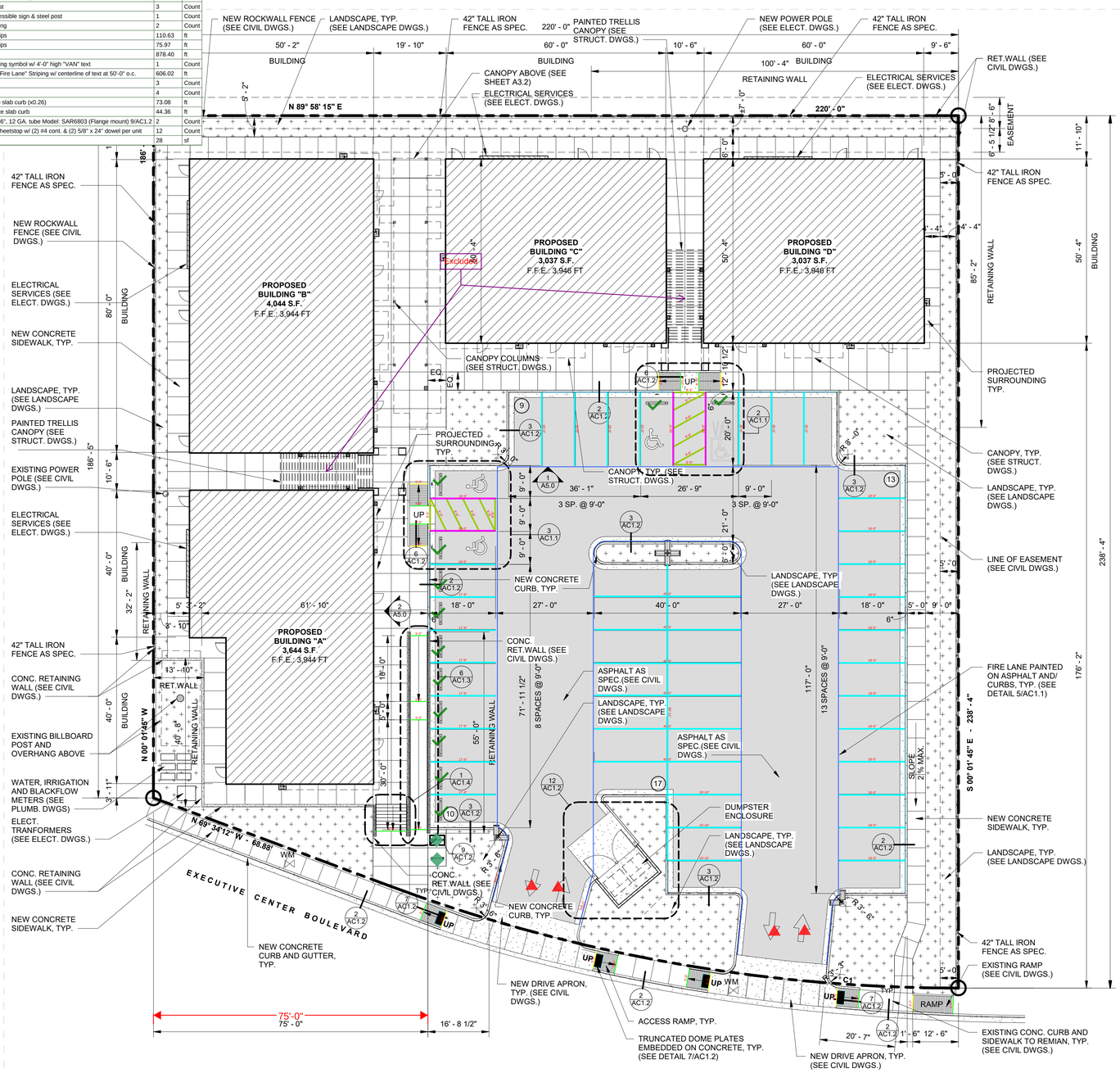
#	Description	Date

SHEET: **AC1.0**

1 OF 12

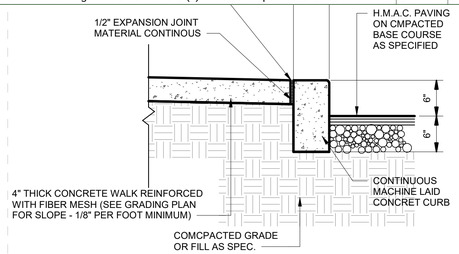
ISSUED FOR PERMIT 08.11.23

Legend		
Description	**Quantity**	**Unit**
ADA sign - 1'-0" dia. x 3'-0" high concrete footing	4	Count
ADA sign - ADA signage w/ steel post	3	Count
ADA sign - ADA signage w/ van accessible sign & steel post	1	Count
Pav marking - "NO PARKING" lettering	2	Count
Pav marking - 3" wide no parking strips	110.63	ft
Pav marking - 4" wide no parking strips	75.97	ft
Pav marking - 4" wide parking strips	878.40	ft
Pav marking - 6'-4" x 6'-4" H.C. parking symbol w/ 4'-0" high "VAN" text	1	Count
Pav marking - 6" wide "No Parking / Fire Lane" Striping w/ centerline of text at 50'-0" o.c.	606.02	ft
Pav marking - ADA symbol	3	Count
Pav marking - Directional arrows	4	Count
Sidewalk - 6"Wide x 5"High concrete slab curb (x0.26)	73.08	ft
Sidewalk - 6"Wide x 12"High concrete slab curb	44.36	ft
Site - 5 space wave bicycle rack, 1.66', 12 GA. tube Model: SAR6803 (Flange mount) 9/AC1.2	2	Count
Site - 6'x6'x6'-0" precast concrete wheelstop w/ (2) #4 cont. & (2) 5/8" x 24" dowel per unit	12	Count
Site - Truncated domes 7/AC1.2	28	sf


NEW ROCKWALL FENCE (SEE CIVIL DWGS.)
LANDSCAPE, TYP. (SEE LANDSCAPE DWGS.)
42" TALL IRON FENCE AS SPEC.
220' - 0"
PAINTED TRELLIS CANOPY (SEE STRUCT. DWGS.)
NEW POWER POLE (SEE ELECT. DWGS.)
42" TALL IRON FENCE AS SPEC.
RET.WALL (SEE CIVIL DWGS.)
50' - 2"
19' - 10"
60' - 0"
10' - 6"
100' - 4"
60' - 0"
9' - 6"
BUILDING
BUILDING
BUILDING
CANOPY ABOVE (SEE SHEET A3.2)
ELECTRICAL SERVICES (SEE ELECT. DWGS.)
RETAINING WALL
ELECTRICAL SERVICES (SEE ELECT. DWGS.)
N 89° 58' 15" E
220' - 0"
6' - 2"
47' - 0"
6' - 0"
6' - 5 1/2"
8' - 6"
EASEMENT
11' - 10"
42" TALL IRON FENCE AS SPEC.
NEW ROCKWALL FENCE (SEE CIVIL DWGS.)
ELECTRICAL SERVICES (SEE ELECT. DWGS.)
NEW CONCRETE SIDEWALK, TYP.
LANDSCAPE, TYP. (SEE LANDSCAPE DWGS.)
PAINTED TRELLIS CANOPY (SEE STRUCT. DWGS.)
EXISTING POWER POLE (SEE CIVIL DWGS.)
ELECTRICAL SERVICES (SEE ELECT. DWGS.)
186' - 5"
80' - 0"
BUILDING
40' - 0"
BUILDING
32' - 2"
RETAINING WALL
10' - 6"
PROPOSED BUILDING "B" 4,044 S.F. F.F.E.: 3,944 FT
PROPOSED BUILDING "C" 3,037 S.F. F.F.E.: 3,946 FT
PROPOSED BUILDING "D" 3,037 S.F. F.F.E.: 3,946 FT
PROPOSED BUILDING "A" 3,644 S.F. F.F.E.: 3,944 FT
EXISTING
4' - 4"
50' - 4"
85' - 2"
RETAINING WALL
50' - 4"
BUILDING
238' - 4"
CANOPY COLUMNS (SEE STRUCT. DWGS.)
PROJECTED SURROUNDING TYP.
CANOPY, TYP. (SEE STRUCT. DWGS.)
LANDSCAPE, TYP. (SEE LANDSCAPE DWGS.)
LINE OF EASEMENT (SEE CIVIL DWGS.)
PROJECTED SURROUNDING TYP.
CANOPY, TYP. (SEE STRUCT. DWGS.)
36' - 1"
26' - 9"
9' - 0"
3 SP. @ 9'-0"
3 SP. @ 9'-0"
21' - 0"
20' - 0"
NEW CONCRETE CURB, TYP.
LANDSCAPE, TYP. (SEE LANDSCAPE DWGS.)
18' - 0"
27' - 0"
40' - 0"
27' - 0"
18' - 0"
5' - 0"
9' - 0"
61' - 10"
5' - 2"
4' - 10"
13' - 10"
RET.WALL
40' - 8"
RETAINING WALL
18' - 0"
5' - 0"
55' - 0"
RETAINING WALL
71' - 11 1/2"
8 SPACES @ 9'-0"
117' - 0"
13 SPACES @ 9'-0"
CONC. RET.WALL (SEE CIVIL DWGS.)
ASPHALT AS SPEC.(SEE CIVIL DWGS.)
LANDSCAPE, TYP. (SEE LANDSCAPE DWGS.)
ASPHALT AS SPEC.(SEE CIVIL DWGS.)
DUMPSTER ENCLOSURE
LANDSCAPE, TYP. (SEE LANDSCAPE DWGS.)
SLOPE 2% MAX.
FIRE LANE PAINTED ON ASPHALT AND/ CURBS, TYP. (SEE DETAIL 5/AC1.1)
NEW CONCRETE SIDEWALK, TYP.
LANDSCAPE, TYP. (SEE LANDSCAPE DWGS.)
42" TALL IRON FENCE AS SPEC.
EXISTING RAMP (SEE CIVIL DWGS.)
RAMP
S 00° 01' 45" E - 238' - 4"
176' - 2"
N 00° 01' 45" W
N 69° 34' 12" W - 68.88'
EXECUTIVE CENTER BOULEVARD
CONC. RETAINING WALL (SEE CIVIL DWGS.)
NEW CONCRETE SIDEWALK, TYP.
NEW CONCRETE CURB AND GUTTER, TYP.
NEW CONCRETE CURB, TYP.
CONC. RET.WALL (SEE CIVIL DWGS.)
NEW DRIVE APRON, TYP. (SEE CIVIL DWGS.)
ACCESS RAMP, TYP.
TRUNCATED DOME PLATES EMBEDDED ON CONCRETE, TYP. (SEE DETAIL 7/AC1.2)
NEW DRIVE APRON, TYP. (SEE CIVIL DWGS.)
EXISTING CONC. CURB AND SIDEWALK TO REMIAN, TYP. (SEE CIVIL DWGS.)
75'-0"
75' - 0"
16' - 8 1/2"
20' - 7"
1' - 6"
12' - 6"
EXISTING BILLBOARD POST AND OVERHANG ABOVE
WATER, IRRIGATION AND BLACKFLOW METERS (SEE PLUMB. DWGS)
ELECT. TRANFORMERS (SEE ELECT. DWGS.)
CONC. RETAINING WALL (SEE CIVIL DWGS.)
42" TALL IRON FENCE AS SPEC.
CONC. RETAINING WALL (SEE CIVIL DWGS.)
3' - 11"
40' - 0"
BUILDING
RETAINING WALL
30' - 0"
EQ
EQ
EQ
EQ
UP
UP
UP
UP
WM
WM
WM
C1
R=441.50'
R=5' - 0"
R=5' - 0"
R=5' - 0"
R=5' - 0"
R=5' - 0"
R=5' - 0"
TYP.
TYP.
TYP.

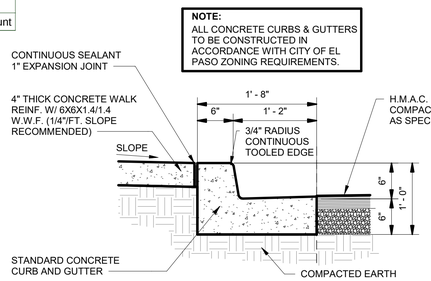
Legend

	Description	Quantity	Unit
▲	Trash - 1'-6" dia. x 3'-6" high concrete footing for bollard	5	Count
⟋	Trash - 2'-0"Wide x 1'-0"Thick concrete wall footing w/ (3) #5 cont & #4 ties @ 36" o.c.	33.90	ft
◆	Trash - 6" dia. x 7'-0" high standard steel pipe bollard, painted + concrete filled	5	Count
	Trash - 7" thick concrete slab on grade	310	sf
⟋	Trash - 8" thick cmu wall w/ #5 bar @ 48" o.c. vertical (7'-4"H) + 8" cmu bond beam w/ (2) #5 cont.	33.89	ft
◆	Trash - Corrugated panel double trash gate w/ steel frame & (2) 4" x 4" steel post Size: 13'-1"W x 5'-4"H	1	Count



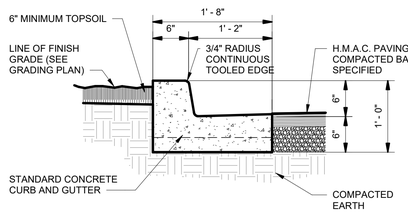
CURB DETAIL

SCALE: 1" = 1'-0"



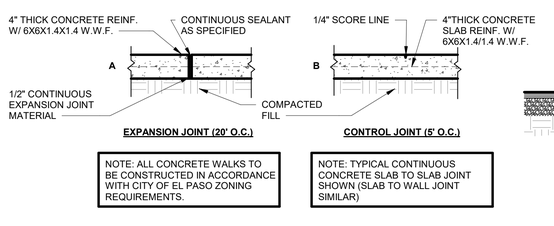
2 CURB/GUTTER DETAIL

SCALE: 1" = 1'-0"



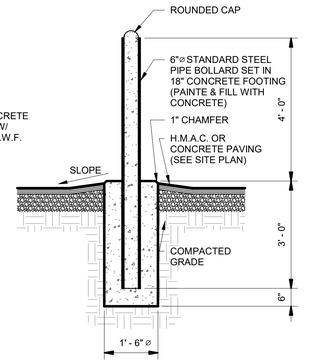
3 CURB/GUTTER DETAIL

SCALE: 1" = 1'-0"



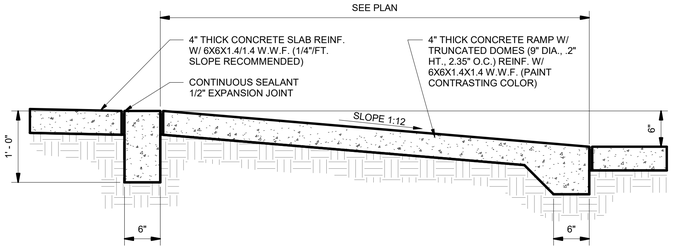
4 SIDEWALK DETAIL

SCALE: 1" = 1'-0"



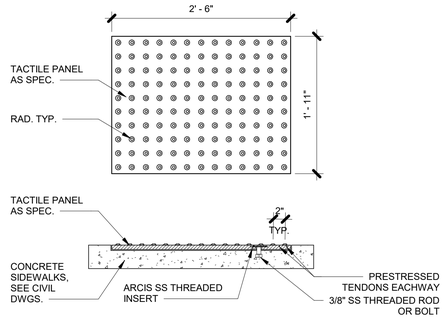
5 BOLLARD DETAIL

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



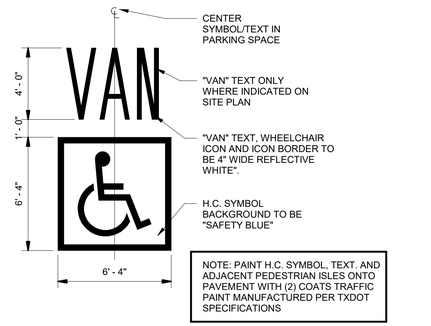
6 HANDICAP RAMP SECTION

SCALE: 1" = 1'-0"



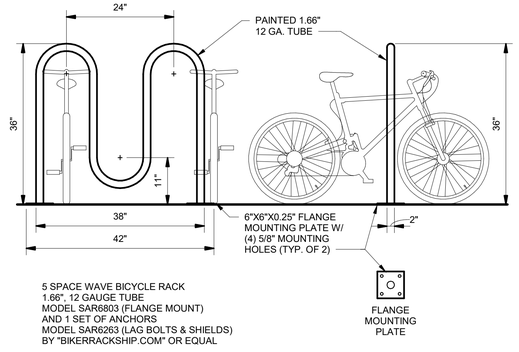
7 TRUNCATED DOME PLATE

SCALE: 1" = 1'-0"



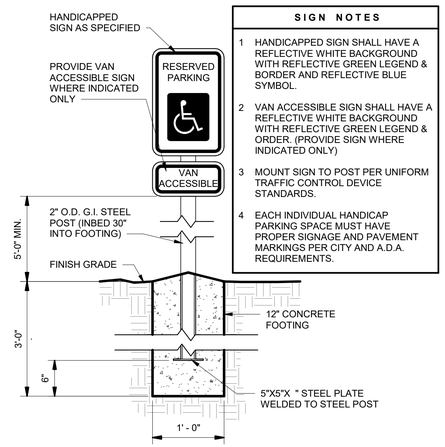
8 TYPICAL H.C. PARKING SYMBOL

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



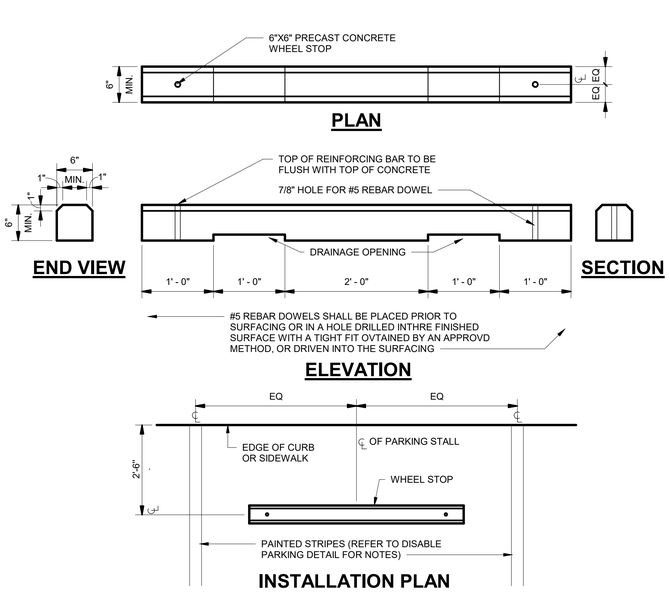
9 5 SPACE RACK DETAIL

SCALE: 3/4" = 1'-0"



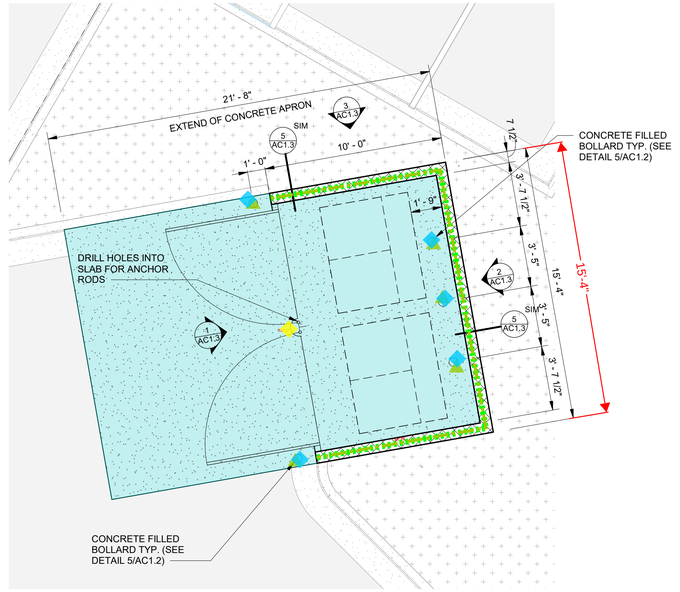
10 ADA SIGNAGE

SCALE: 1" = 1'-0"



11 PRECAST CONCRETE WHEEL STOP DETAIL

SCALE: 1" = 1'-0"



12 ENLARGED DUMPSTER PLAN

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

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REGISTERED ARCHITECT
CHARLES MARSHALL PRICE
26457
STATE OF TEXAS

ABHA RETAIL CENTER
AT
403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

1810 Wyoming ave
el paso, tx 79903
ph:915.534.8082
fax:915.534.8083
psrbb ARCHITECTS
designs by design
www.psrbbarch.com

SITE DETAILS

COMMISSION No. 23-010

DATE: 08-14-2023

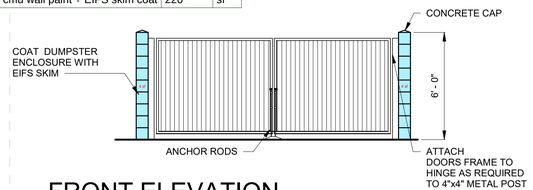
REVISIONS

#	Description	Date

SHEET: AC1.2

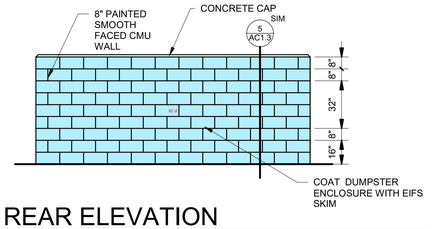
OF 12

Legend		
Description	**Quantity**	**Unit**
Handrail - 2'-10" high floor mounted handrail	111.25	ft
Handrail - 3'-6" high floor mounted guardrail	111.14	ft
Trash - Smooth faced cmu wall paint + EIFS skim coat	220	sf



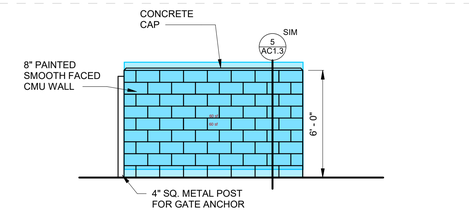
1 FRONT ELEVATION

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



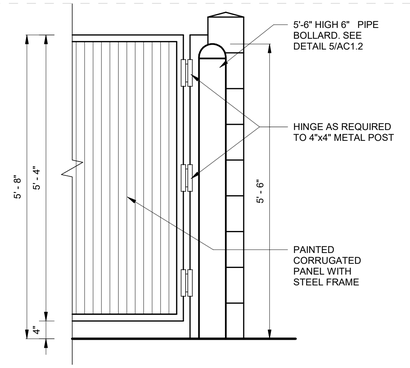
2 REAR ELEVATION

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



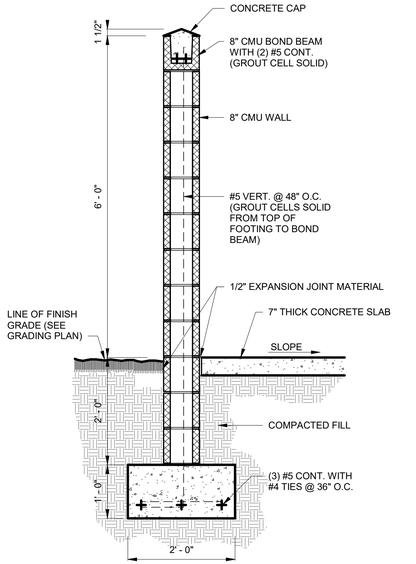
3 SIDE ELEVATION

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



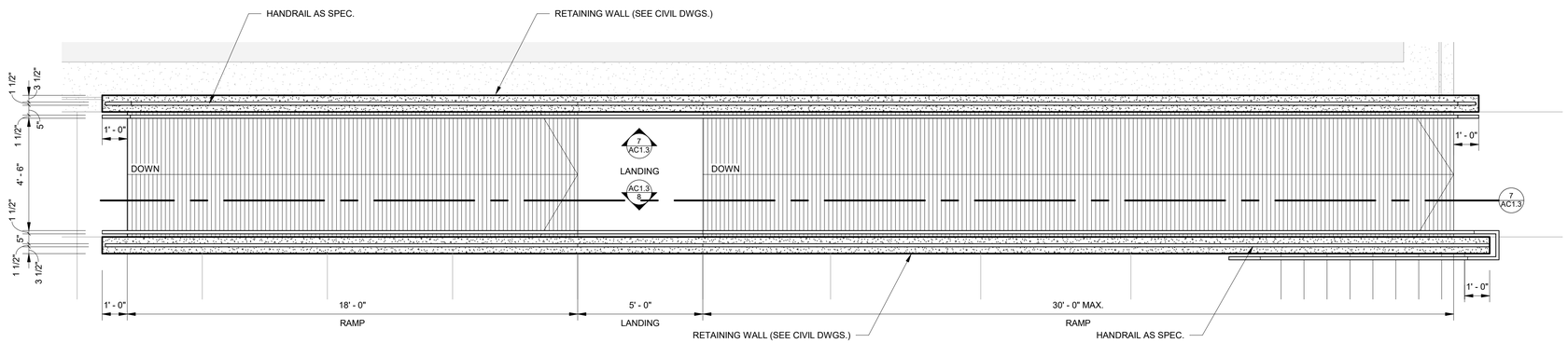
4 GATE DETAIL

SCALE: 3/4" = 1'-0"



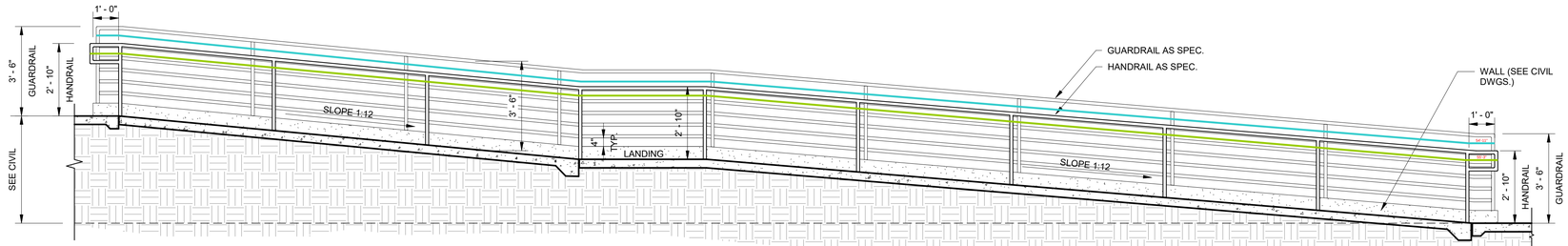
5 CMU WALL SECTION

SCALE: 3/4" = 1'-0"



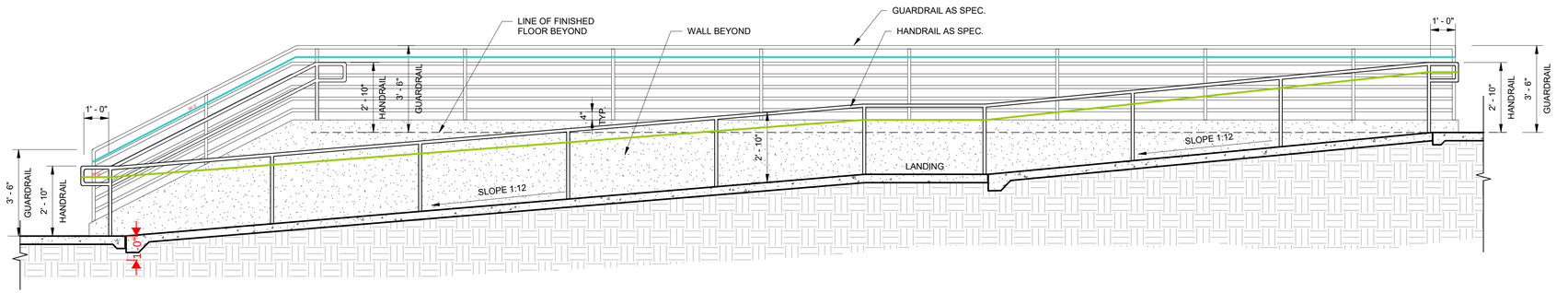
6 RAMP ENLARGED PLAN

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



7 RAMP SECTION

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



8 RAMP SECTION

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

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REGISTERED ARCHITECT
CHARLES MARSH
26457
STATE OF TEXAS

ABHA RETAIL CENTER
AT
403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

1810 Wyoming ave
el paso, tx 79903
ph: 915.534.8082
fax: 915.534.8083
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SITE DETAILS

COMMISSION No. 23-010

DATE: 08-14-2023

REVISIONS

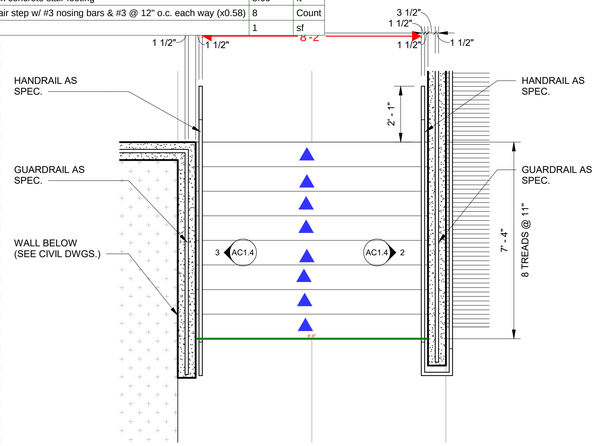
#	Description	Date

SHEET: **AC1.3**

1 OF 12

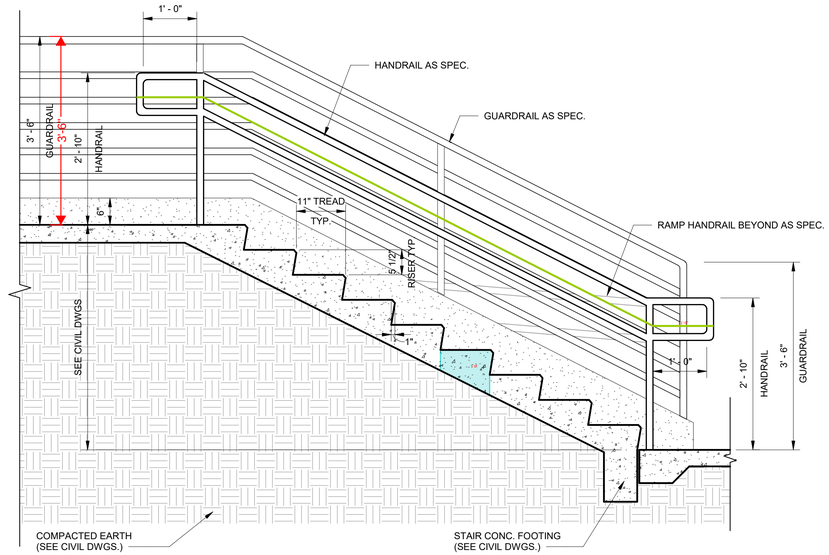
Legend

	Description	Quantity	Unit
	Handrail - 2'-10" high floor mounted handrail	23.52	ft
	Handrail - 3'-6" high floor mounted guardrail	12.09	ft
	Stair - 0'-7"Wide x 0'-11"Thick concrete stair footing	8.66	ft
	Stair - 8'-8" wide concrete stair step w/ #3 nosing bars & #3 @ 12" o.c. each way (x0.58)	8	Count
	Stair - Concrete step	1	sf



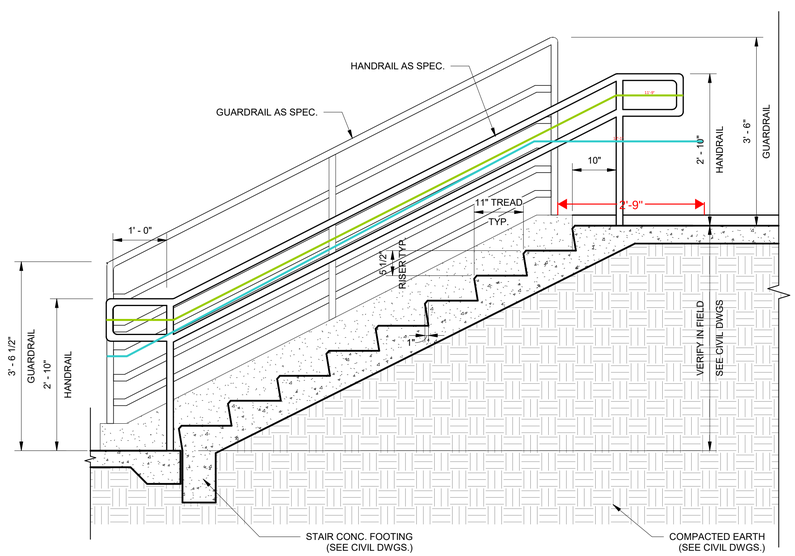
1 STAIR ENLARGED PLAN

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



2 STAIR SECTION

SCALE: 3/4" = 1'-0"



3 STAIR SECTION

SCALE: 3/4" = 1'-0"

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el paso, tx 79903
ph:915.534.8082
fax:915.534.8083
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ABHA RETAIL CENTER

AT

403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

SITE DETAILS

COMMISSION No. 23-010

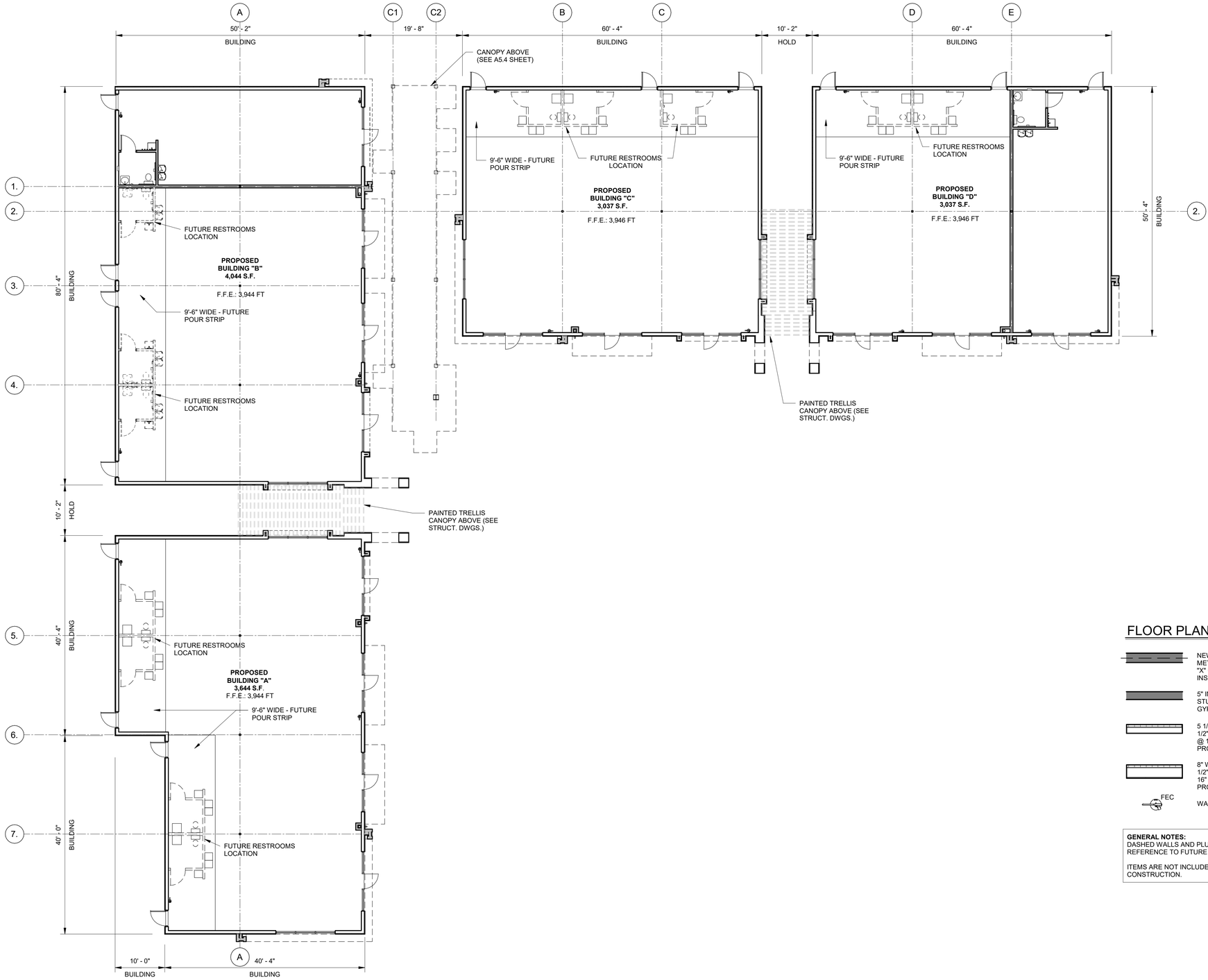
DATE: 08-14-2023

REVISIONS

#	Description	Date

SHEET: **AC1.4**

1 OF 12



1 OVERALL FIRST FLOOR PLAN

SCALE: 1" = 10'-0"

FLOOR PLAN LEGEND

- NEW 1 HR RATED DEMISING WALL: 6" METAL STUDS @ 16"O.C. WITH 5/8" TYPE "X" GYP. BD. ON BOTH SIDES WITH BATT INSULATION
- 5" INT. PARTITION WALL W/ 3 5/8" METAL STUDS @ 16"O.C. WITH 5/8" TYPE "X" GYP. BD. ON BOTH SIDES
- 5 1/2" WALL -1 1/2" EIFS SYSTEM ON 1/2" SHEATHING ON 3 5/8" METAL STUDS @ 16" O.C. R-13 BATT INSULATION TO BE PROVIDED BY FUTURE TENANT
- 8" WALL -1 1/2" EIFS SYSTEM ON 1/2" SHEATHING ON 6" METAL STUDS @ 16" O.C. R-13 BATT INSULATION TO BE PROVIDED BY FUTURE TENANT
- FEC — WALL MOUNTED FIRE EXTINGUISER

GENERAL NOTES:
DASHED WALLS AND PLUMBING FIXTURES ARE FOR REFERENCE TO FUTURE RESTROOM LOCATION ONLY.

ITEMS ARE NOT INCLUDED AS PART OF THE BUILDING SHELL CONSTRUCTION.

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ABHA RETAIL CENTER
AT
403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

1810 Wyoming ave
el paso, tx 79903
ph:915.534.8082
fax:915.534.8083
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OVERALL FLOOR PLAN

COMMISSION No. 23-010

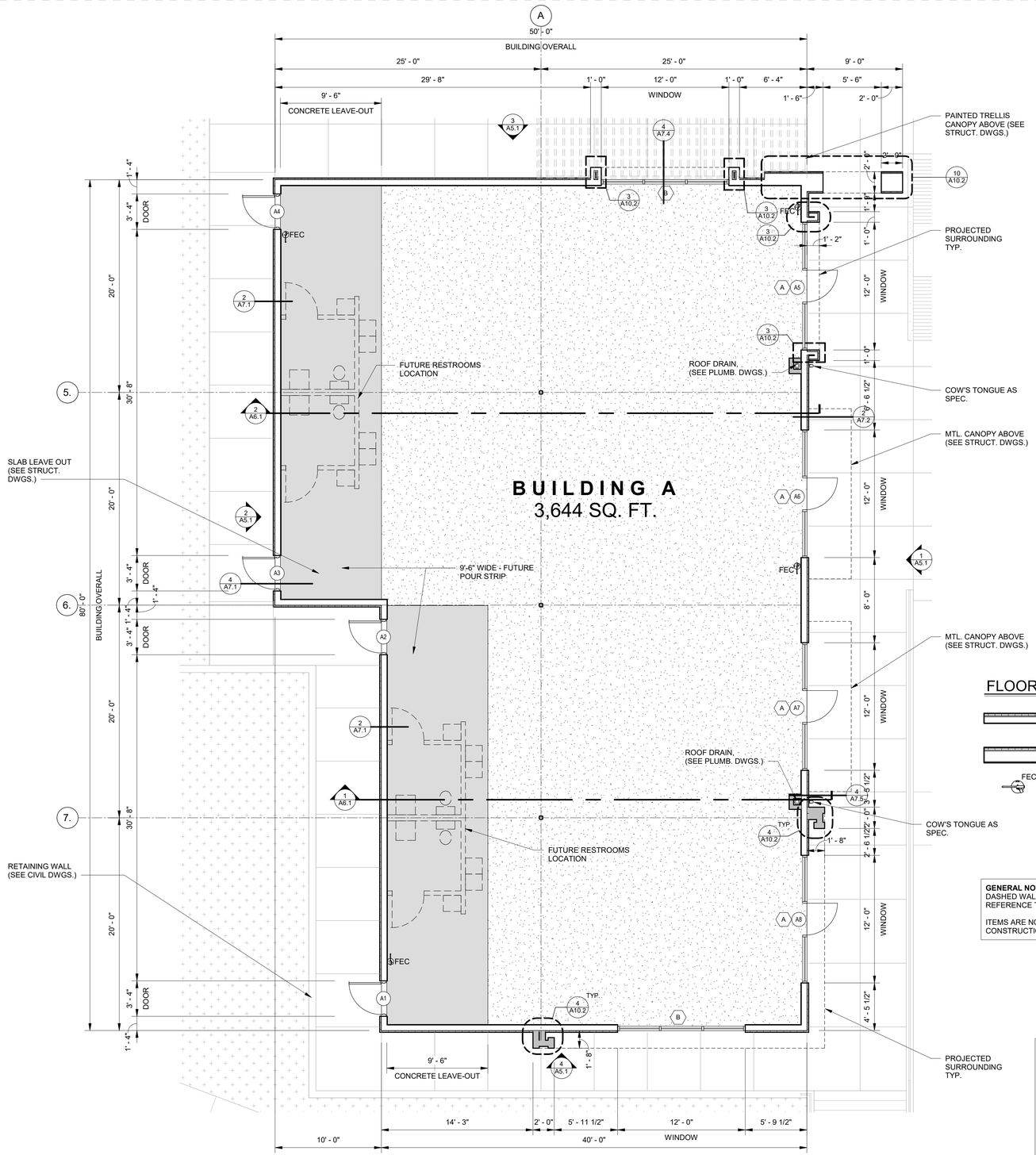
DATE: 08-14-2023

REVISIONS

#	Description	Date

SHEET: **A1.0**

OF 12

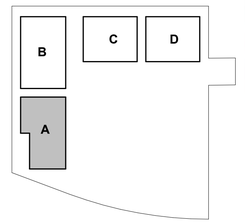


FLOOR PLAN LEGEND

- 5 1/2" WALL -1 1/2" EIFS SYSTEM ON 1/2" SHEATHING ON 3 5/8" METAL STUDS @ 16" O.C.
- 8" WALL -1 1/2" EIFS SYSTEM ON 1/2" SHEATHING ON 6" METAL STUDS @ 16" O.C.
- FEC — WALL MOUNTED FIRE EXTINGUISER

GENERAL NOTES:
DASHED WALLS AND PLUMBING FIXTURES ARE FOR REFERENCE TO FUTURE RESTROOM LOCATION ONLY.

ITEMS ARE NOT INCLUDED AS PART OF THE BUILDING SHELL CONSTRUCTION.



KEY PLAN A

SCALE: 1" = 80'-0"

1 FLOOR PLAN BLDG A

SCALE: 3/16" = 1'-0" **3,644 SQ. FT.**

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ABHA RETAIL CENTER

AT

403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

1810 Wyoming ave
el paso, tx 79903
ph:915.534.8082
fax:915.534.8083

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FLOOR PLAN BLDG A

COMMISSION No. 23-010

DATE: 08-14-2023

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#	Description	Date

SHEET: **A1.1**

2 OF 12

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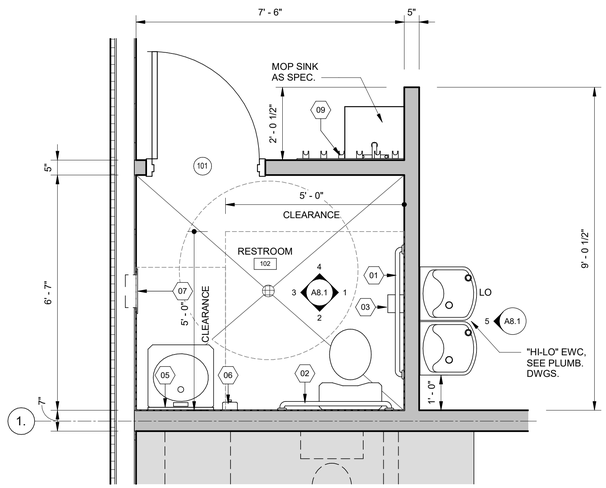
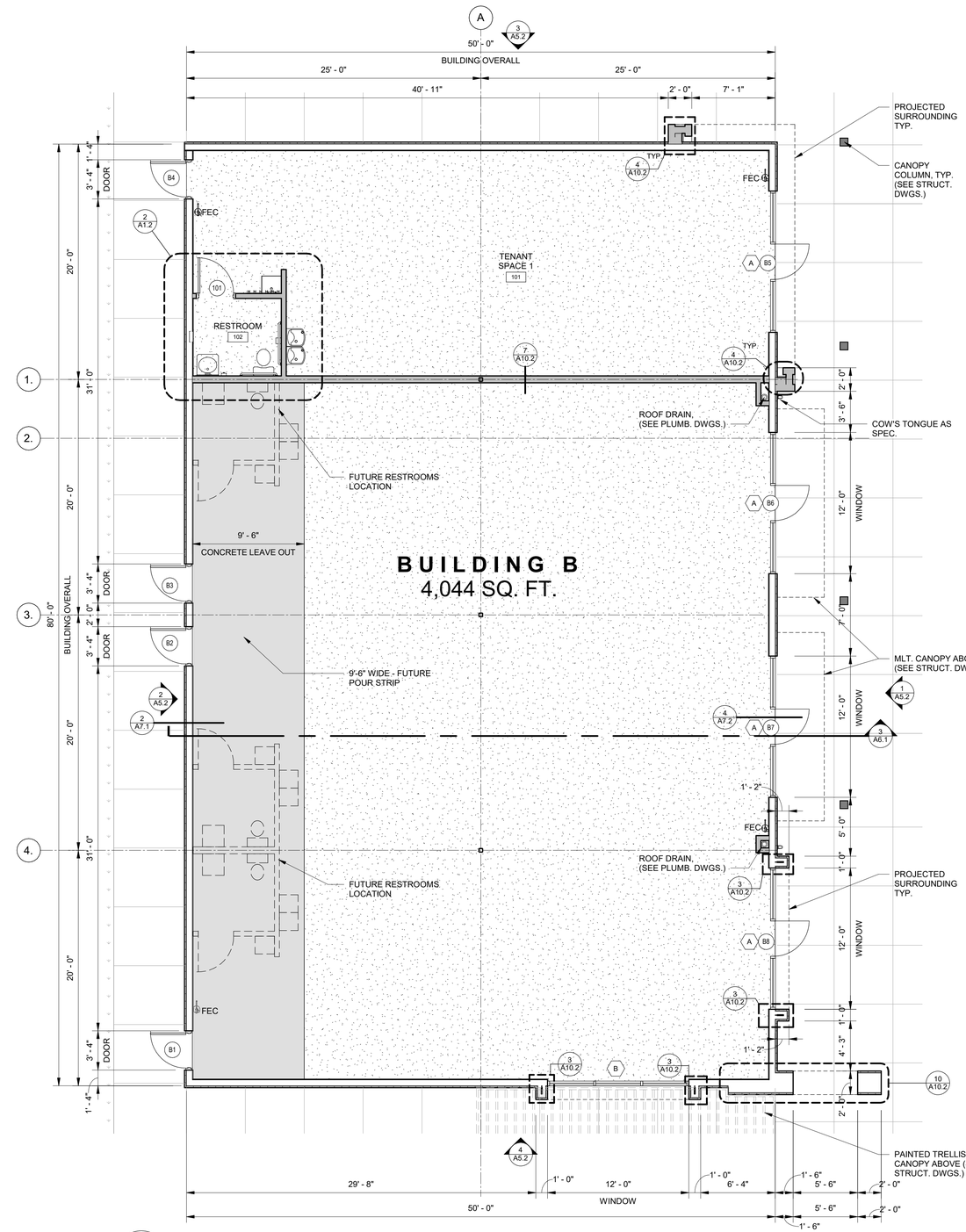


2 RESTROOM ENLARGED PLAN

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

ACCESSORY LEGEND

NO.	ACCESSORY	REMARKS
01	42-INCH H.C. GRAB BAR AT SIDE OF H.C. TOILET	
02	36-INCH H.C. GRAB BAR AT SIDE OF H.C. TOILET	
03	TOILET TISSUE DISPENSER	
05	MIRROR UNIT	
06	LIQUID-SOAP DISPENSER	
07	PAPER TOWEL DISPENSER	
08	UNDERLAVATORY GUARD	
09	MOP & BROOM HOLDER W/ UTYLITY SHELF	



1 FLOOR PLAN BLDG B

SCALE: 3/16" = 1'-0"

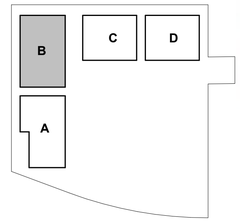
4,044 SQ. FT.

FLOOR PLAN LEGEND

- NEW 1 HR RATED DEMISING WALL: 6" METAL STUDS @ 16"O.C. WITH 5/8" TYPE "X" GYP. BD. ON BOTH SIDES WITH BATT INSULATION
- 5" INT. PARTITION WALL W/ 3 5/8" METAL STUDS @ 16"O.C. WITH 5/8" TYPE "X" GYP. BD. ON BOTH SIDES
- 5 1/2" WALL -1 1/2" EIFS SYSTEM ON 1/2" SHEATHING ON 3 5/8" METAL STUDS @ 16" O.C. R-13 BATT INSULATION TO BE PROVIDED BY FUTURE TENANT
- 8" WALL -1 1/2" EIFS SYSTEM ON 1/2" SHEATHING ON 6" METAL STUDS @ 16" O.C. R-13 BATT INSULATION TO BE PROVIDED BY FUTURE TENANT
- FEC — WALL MOUNTED FIRE EXTINGUISER

GENERAL NOTES:
DASHED WALLS AND PLUMBING FIXTURES ARE FOR REFERENCE TO FUTURE RESTROOM LOCATION ONLY.

ITEMS ARE NOT INCLUDED AS PART OF THE BUILDING SHELL CONSTRUCTION.



KEY PLAN B

SCALE: 1" = 80'-0"

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FLOOR PLAN BLDG B

COMMISSION No. 23-010

DATE: 08-14-2023

REVISIONS

#	Description	Date

SHEET: **A1.2**

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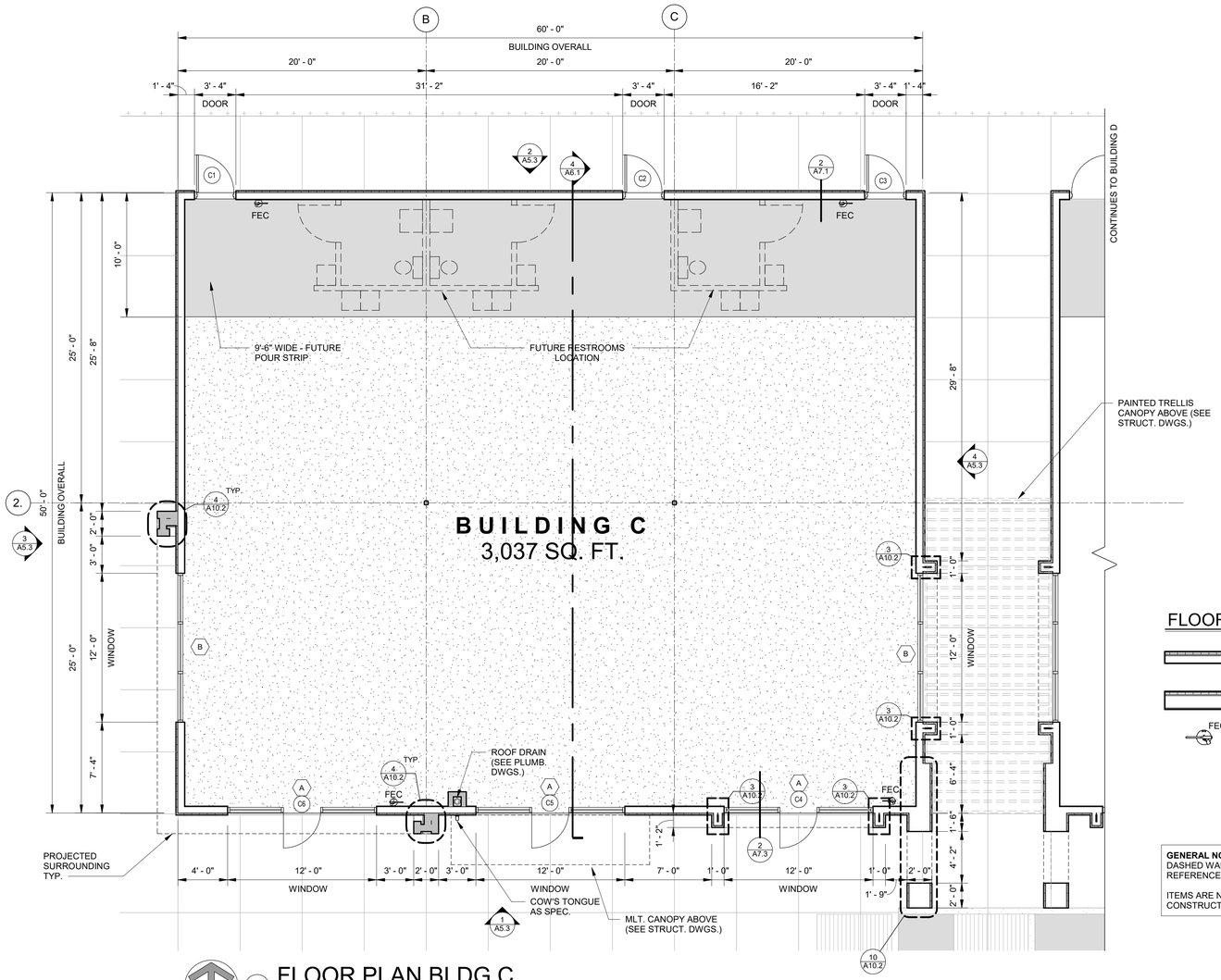

1 FLOOR PLAN BLDG C

SCALE: 3/16" = 1'-0"

3,037 SQ. FT.

FLOOR PLAN LEGEND

- 5 1/2" WALL -1 1/2" EIFS SYSTEM ON 1/2" SHEATHING ON 3 5/8" METAL STUDS @ 16" O.C.
- 8" WALL -1 1/2" EIFS SYSTEM ON 1/2" SHEATHING ON 6" METAL STUDS @ 16" O.C.
- FEC — WALL MOUNTED FIRE EXTINGUISER

GENERAL NOTES:
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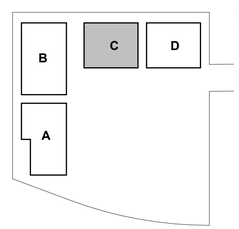

KEY PLAN C

SCALE: 1" = 80'-0"

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FLOOR PLANS BLDG C

COMMISSION No. 23-010

DATE: 08-14-2023

REVISIONS

#	Description	Date

SHEET: **A1.3**

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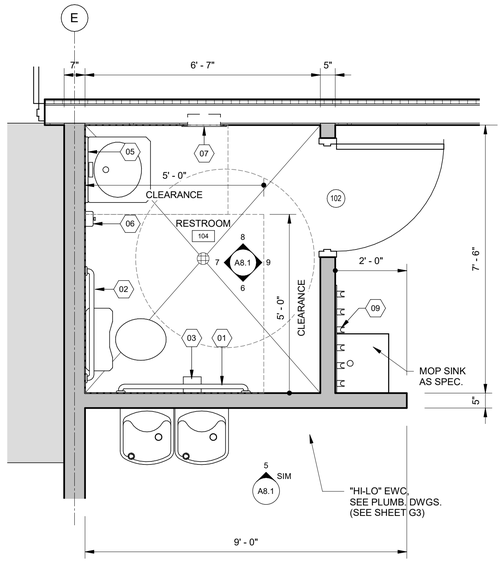
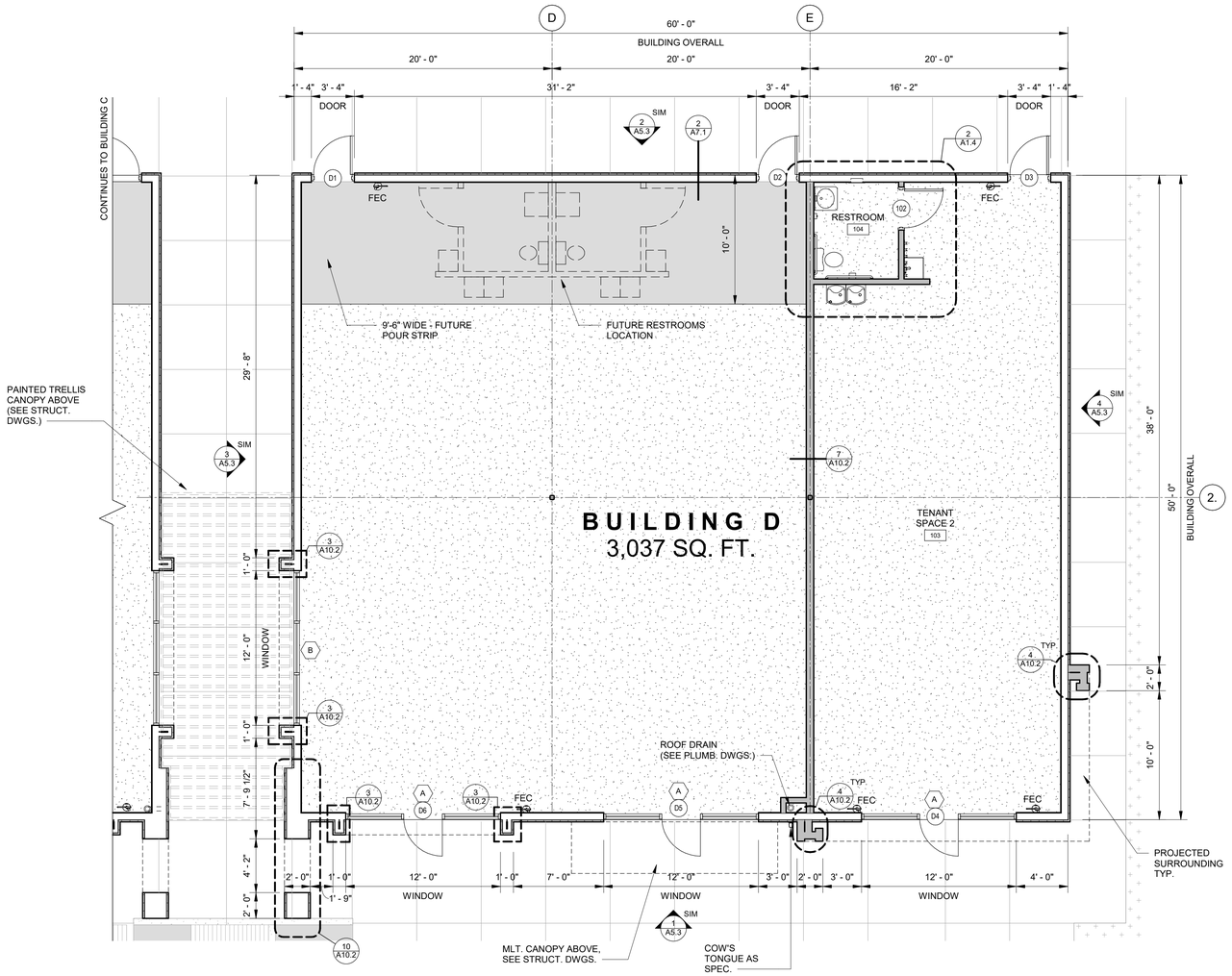


2 RESTROOM ENLARGED PLAN

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

ACCESSORY LEGEND

NO.	ACCESSORY	REMARKS
01	42-INCH H.C. GRAB BAR AT SIDE OF H.C. TOILET	
02	36-INCH H.C. GRAB BAR AT SIDE OF H.C. TOILET	
03	TOILET TISSUE DISPENSER	
05	MIRROR UNIT	
06	LIQUID-SOAP DISPENSER	
07	PAPER TOWEL DISPENSER	
08	UNDERLAVATORY GUARD	
09	MOP & BROOM HOLDER W/ UTYLITY SHELF	



1 FLOOR PLAN BLDG D

SCALE: 3/16" = 1'-0"

3,037 SQ. FT.

FLOOR PLAN LEGEND

NEW 1 HR RATED DEMISING WALL: 6" METAL STUDS @ 16"O.C. WITH 5/8" TYPE "X" GYP. BD. ON BOTH SIDES WITH BATT INSULATION

5" INT. PARTITION WALL W/ 3 5/8" METAL STUDS @ 16"O.C. WITH 5/8" TYPE "X" GYP. BD. ON BOTH SIDES

5 1/2" WALL -1 1/2" EIFS SYSTEM ON 1/2" SHEATHING ON 3 5/8" METAL STUDS @ 16" O.C. R-13 BATT INSULATION TO BE PROVIDED BY FUTURE TENANT

8" WALL -1 1/2" EIFS SYSTEM ON 1/2" SHEATHING ON 6" METAL STUDS @ 16" O.C. R-13 BATT INSULATION TO BE PROVIDED BY FUTURE TENANT

FEC — WALL MOUNTED FIRE EXTINGUISER

GENERAL NOTES:
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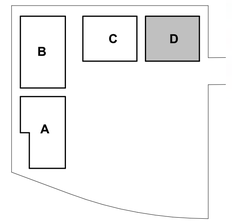

KEY PLAN D

SCALE: 1" = 80'-0"

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FLOOR PLAN BLDG D

COMMISSION No. 23-010

DATE: 08-14-2023

REVISIONS

#	Description	Date

SHEET: **A1.4**

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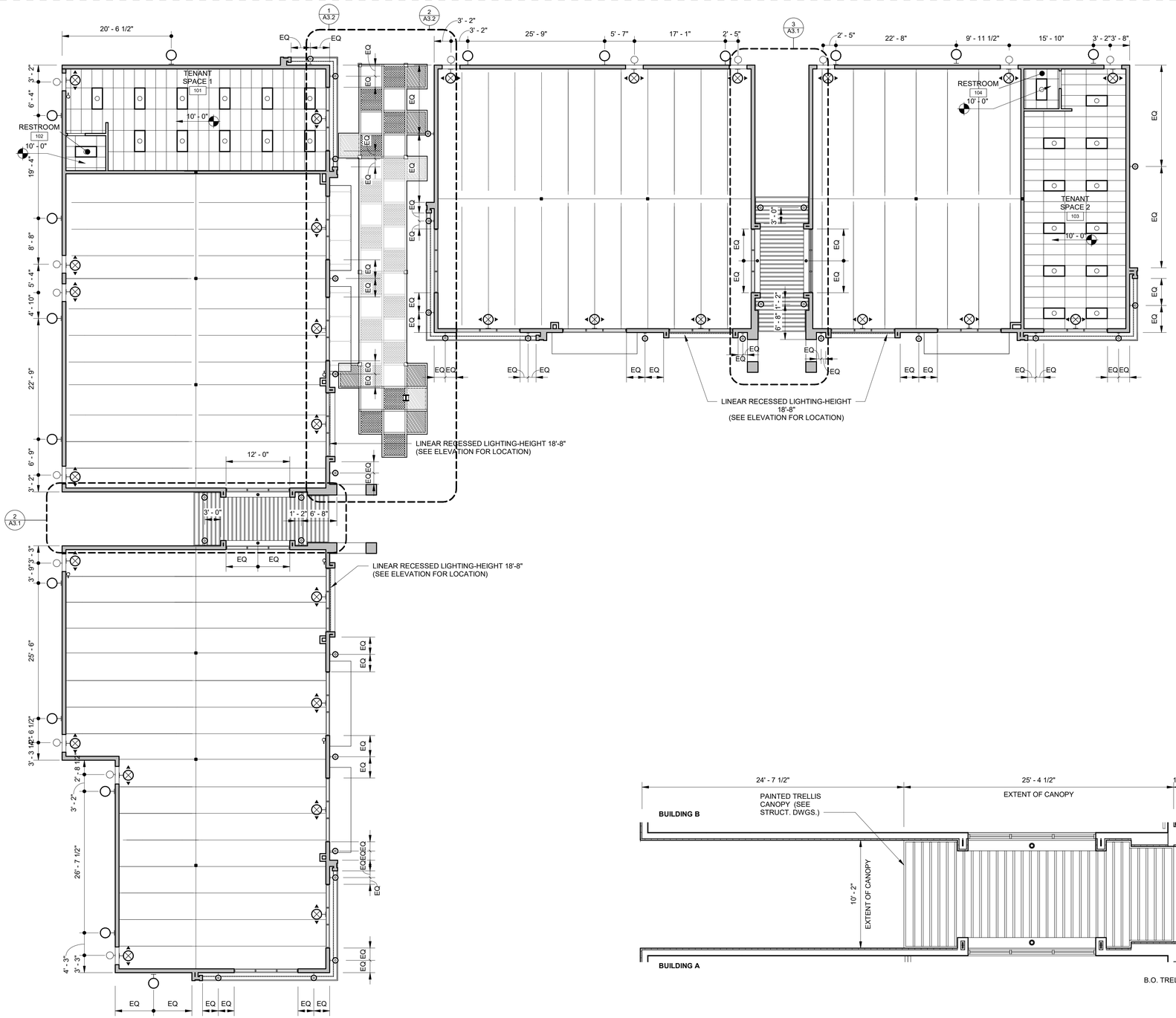

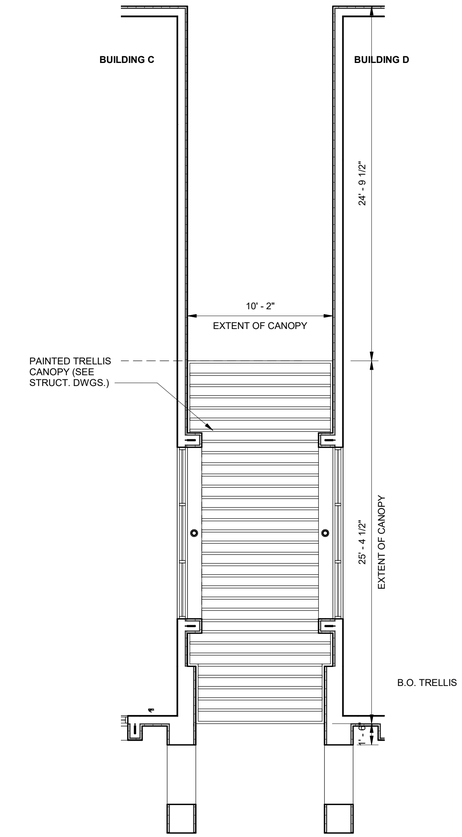

1 REFLECTED CEILING PLAN

SCALE: 1" = 10'-0"

NOTE:

SEE ELECTRICAL AND SPECIALTY LIGHTING SYSTEMS DRAWINGS FOR ADDITIONAL INFO.

CEILING LEGEND

- 2' X 4' LAY-IN ACUSTICAL CEILNG PANELS
- 2' X 4' LIGHT FIXTURE
- WALL PACK LIGHT FIXTURE
- EMERGENCY LIGHT
- WALL SCONE LIGHTING FIXTURE
- LINEAR LIGHT - HORIZONTAL AND VERTICAL WITHIN LIGHT COVE

2 ENLARGED TRELLIS PLAN A-B

SCALE: 1 : 60

3 ENLARGED TRELLIS PLAN C-D

SCALE: 1 : 60

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REFLECTED CEILING PLAN

COMMISSION No. 23-010

DATE: 08-14-2023

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#	Description	Date

SHEET: **A3.1**

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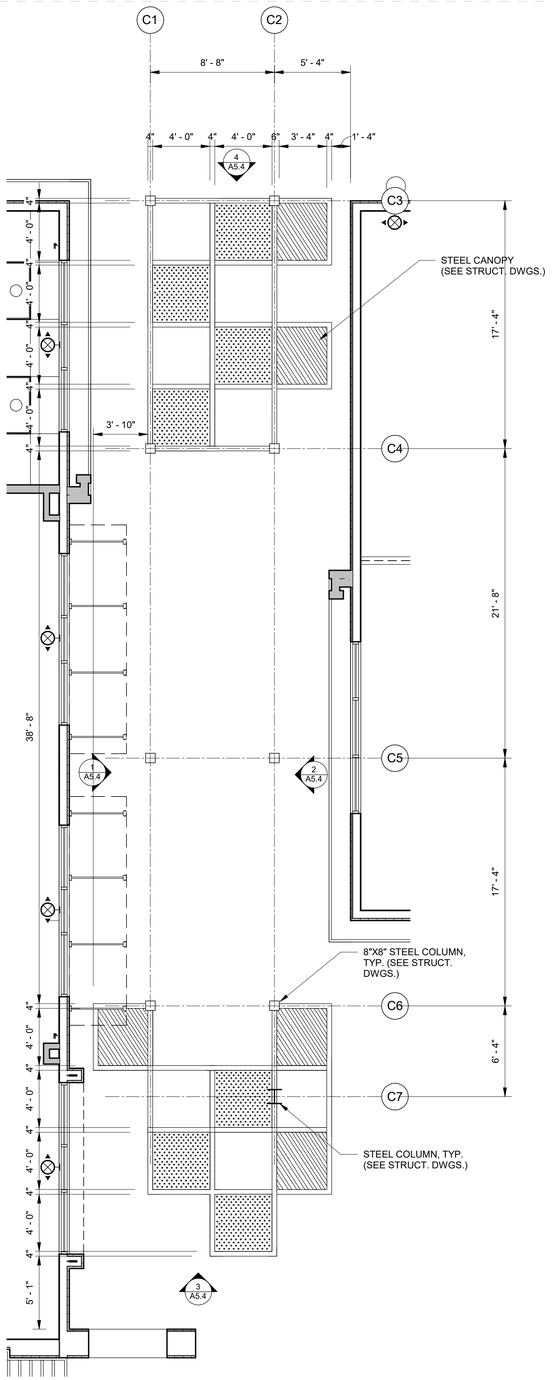
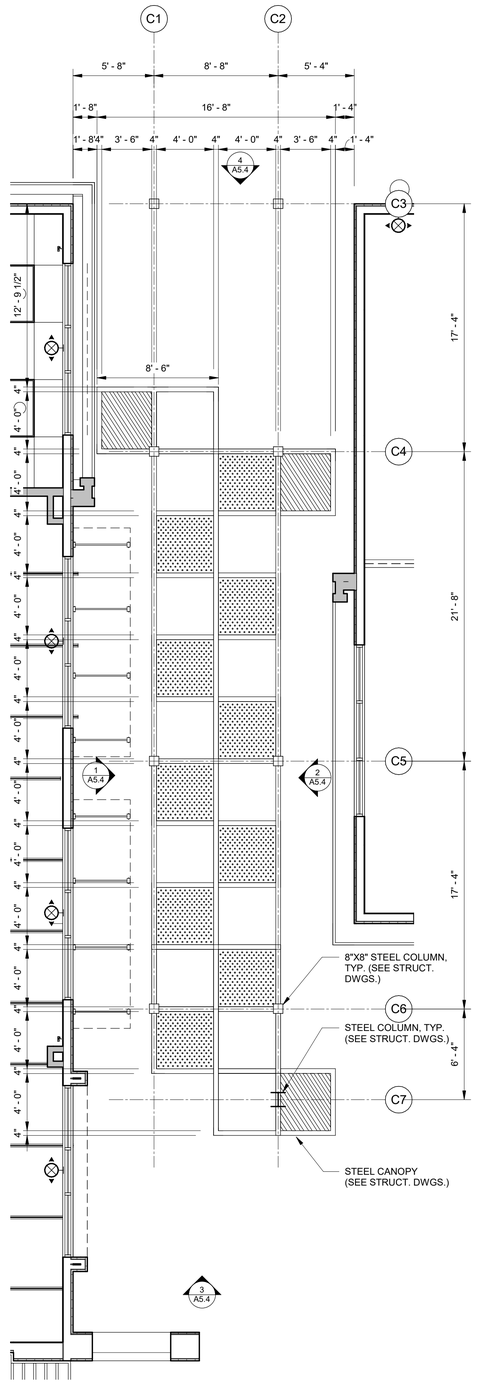


1 ENLARGED CANOPY PLAN LOW LEVEL

SCALE: 1 : 60

15'-0" A.F.F.



2 ENLARGED CANOPY PLAN TOP LEVEL

SCALE: 1 : 60

16'-10" A.F.F.

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ENLARGED RCP PLANS

COMMISSION No. 23-010

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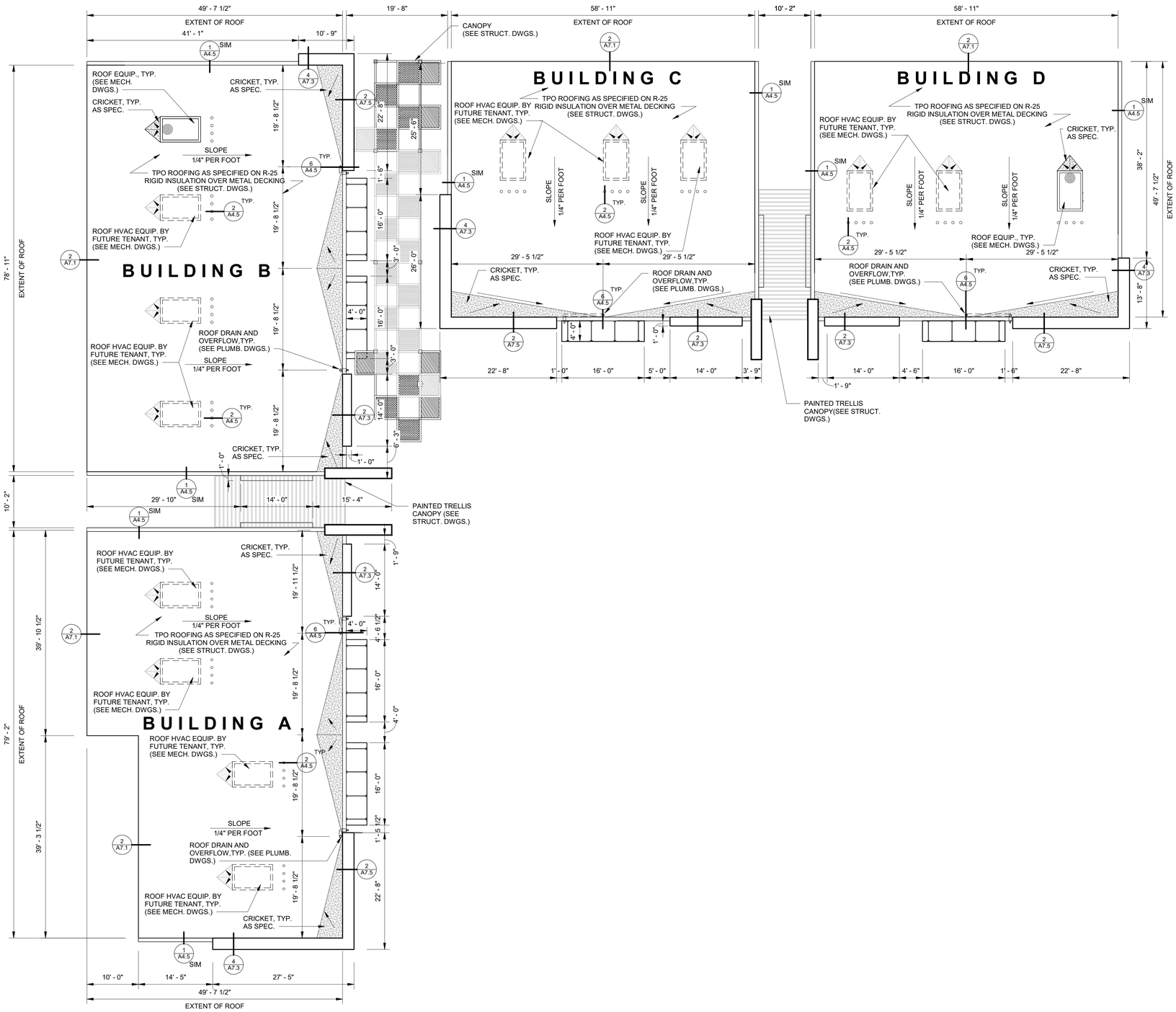
SHEET: **A3.2**

OF 12



1 OVERALL ROOF PLAN

SCALE: 1" = 10'-0"

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fax:915.534.8083

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OVERALL ROOF PLAN

COMMISSION No. 23-010

DATE: 08-14-2023

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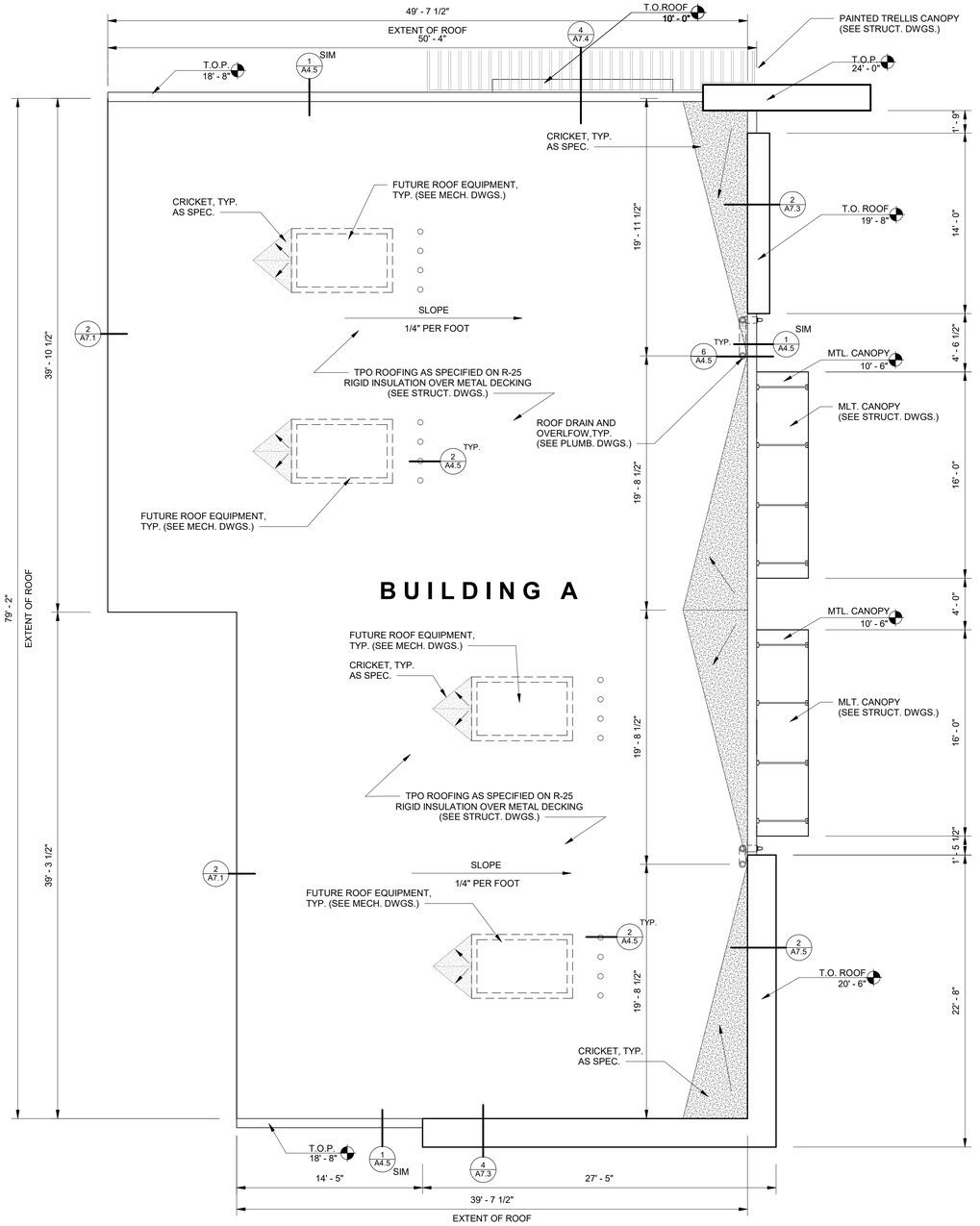
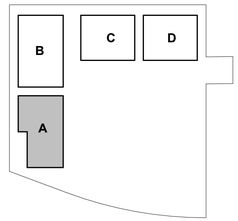


1 ROOF PLAN BLDG A

SCALE: 3/16" = 1'-0"



KEY PLAN A

SCALE: 1" = 80'-0"

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ROOF PLAN BLDG A

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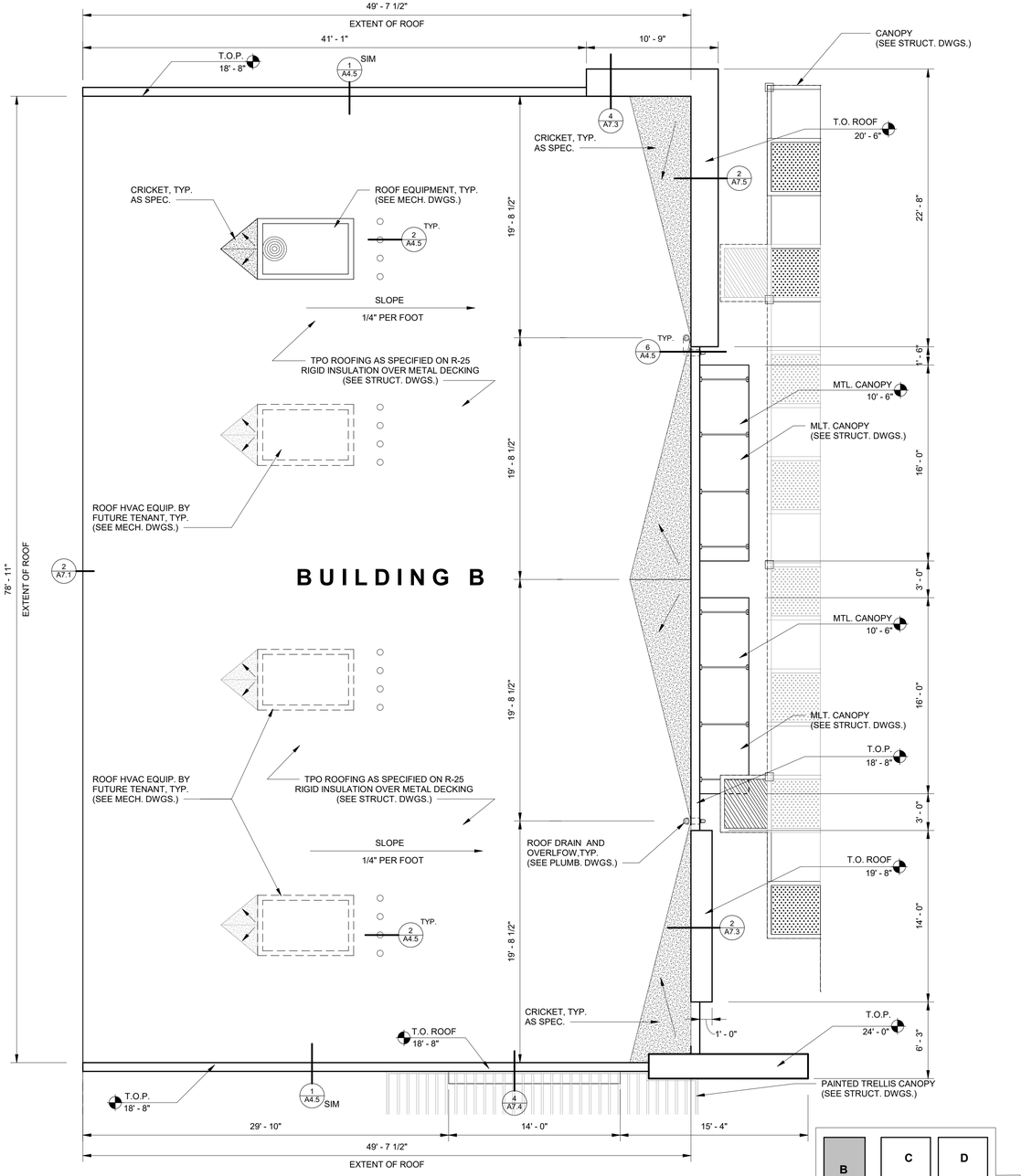
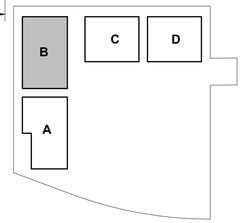


1 ROOF PLAN BLDG B

SCALE: 3/16" = 1'-0"



KEY PLAN B

SCALE: 1" = 80'-0"

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ROOF PLAN BLDG B

COMMISSION No. 23-010

DATE: 08-14-2023

REVISIONS

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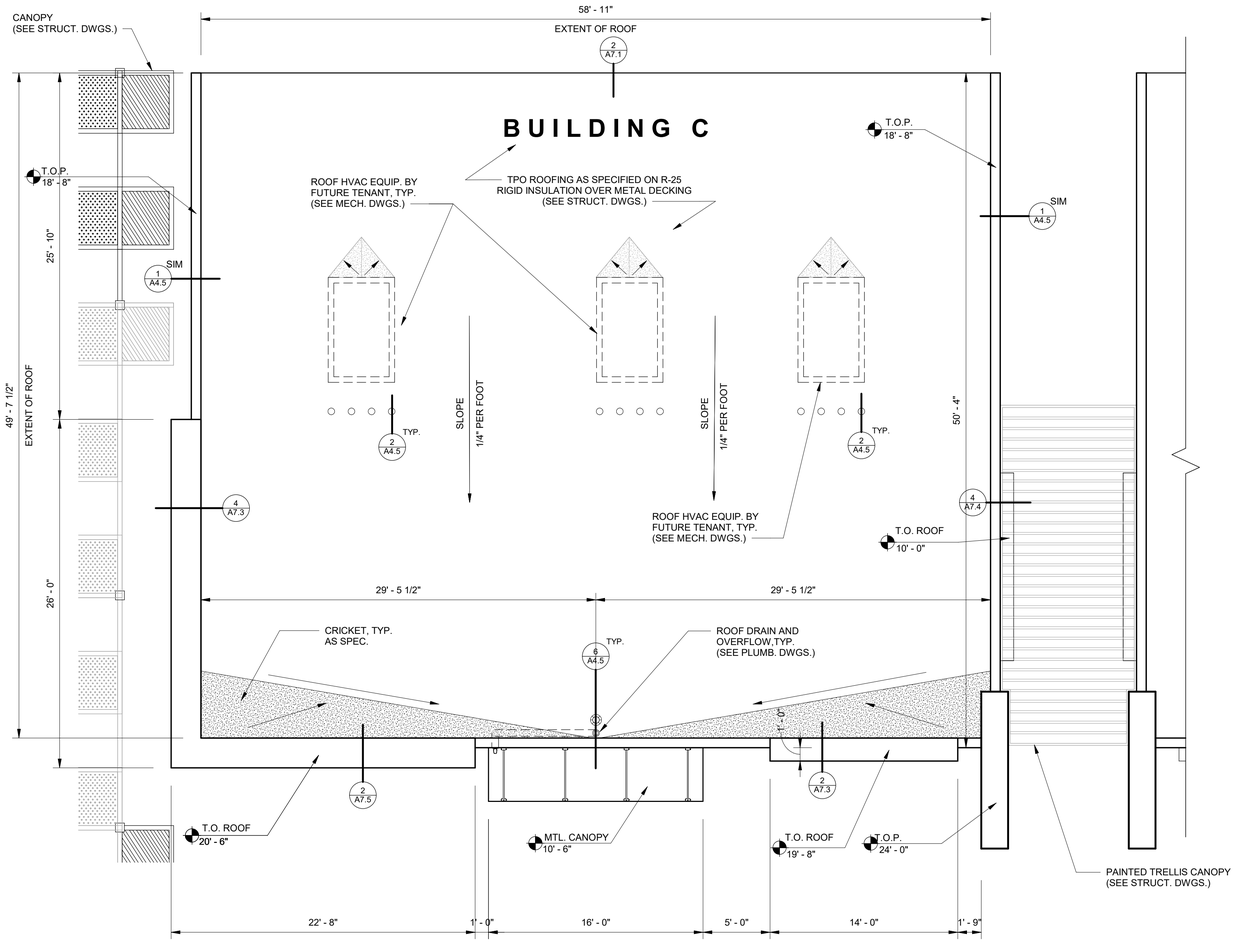
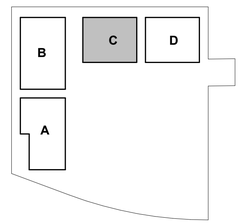


1 ROOF PLAN BLDG C (Bldg D is O.H.)

SCALE: 3/16" = 1'-0"



KEY PLAN C

SCALE: 1" = 80'-0"

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1810 Wyoming ave
el paso, tx 79903
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ROOF PLAN BLDG C

COMMISSION No.
23-010

DATE: 08-14-2023

REVISIONS

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SHEET: **A4.3**

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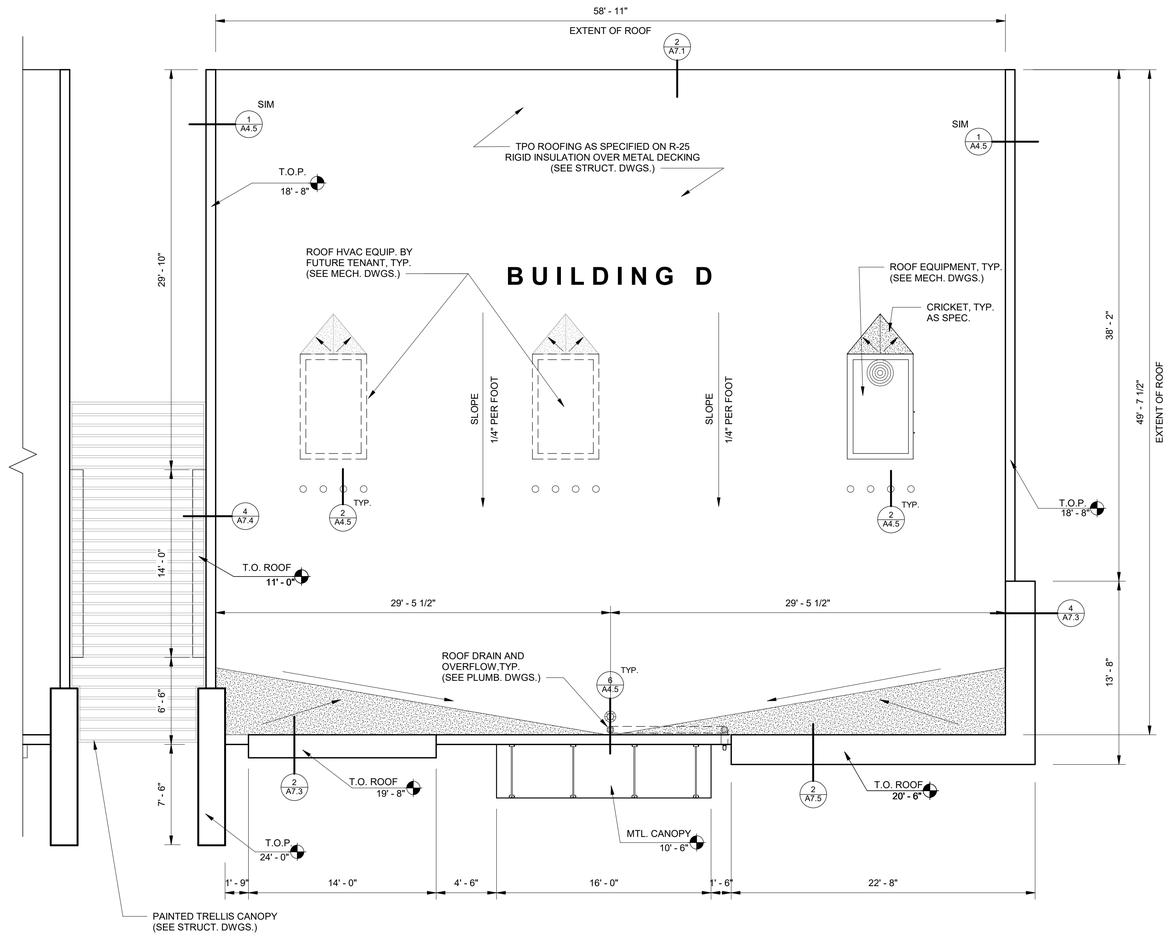
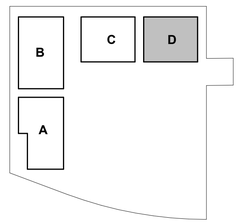


1 ROOF PLAN BLDG D

SCALE: 3/16" = 1'-0"



KEY PLAN D

SCALE: 1" = 80'-0"

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ROOF PLAN BLDG D

COMMISSION No. 23-010

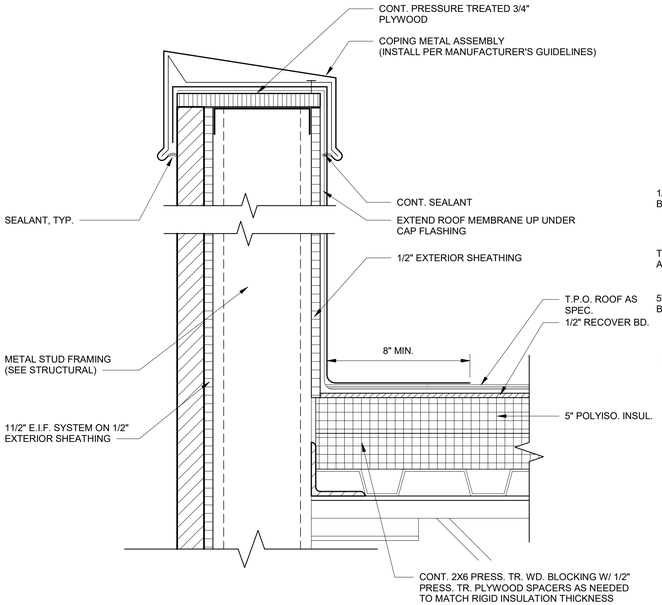
DATE: 08-14-2023

REVISIONS

#	Description	Date

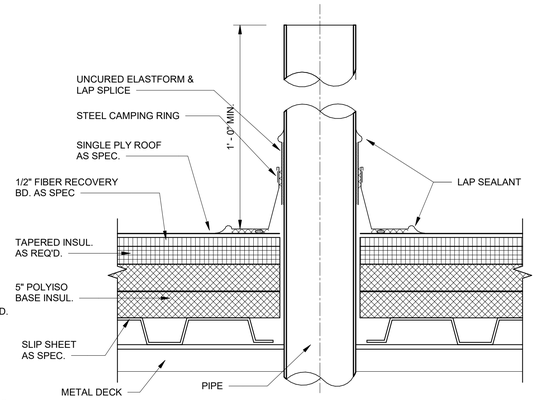
SHEET: **A4.4**

OF **12**



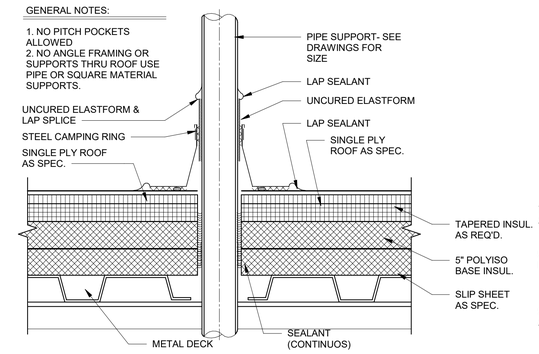
1 PARAPET DETAIL

SCALE: 3" = 1'-0"



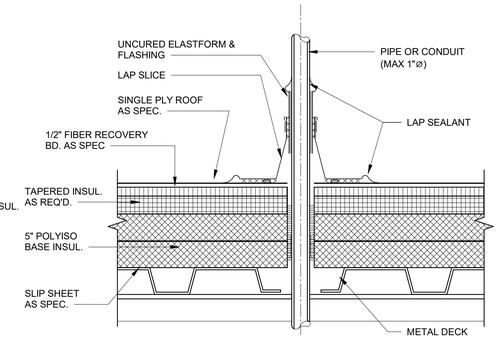
2 PLUMB. VENT PENETRATION DETAIL

SCALE: 3" = 1'-0"



3 PIPE PENETRATION DETAIL

SCALE: 3" = 1'-0"

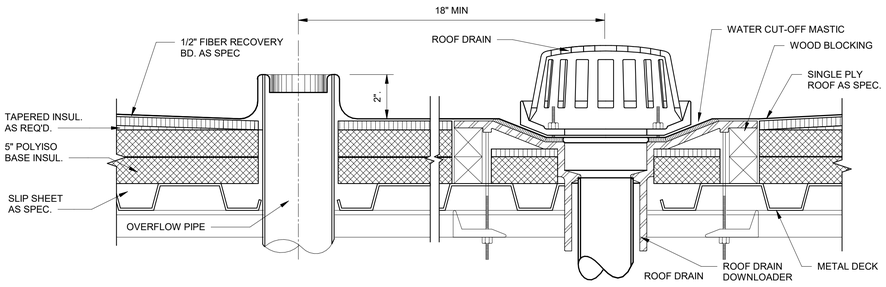


4 PIPE/CONDUIT PENETRATION DETAIL

SCALE: 3" = 1'-0"

5 ROOF DRAIN AND OVERFLOW

SCALE: 3" = 1'-0"



6 ROOF DRAIN AND OVERFLOW

SCALE: 3" = 1'-0"

7 SITE BUILT ROOF CURB

SCALE: 3" = 1'-0"

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1810 Wyoming ave
el paso, tx 79903
ph:915.534.8082
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ROOF DETAILS

COMMISSION No. 23-010

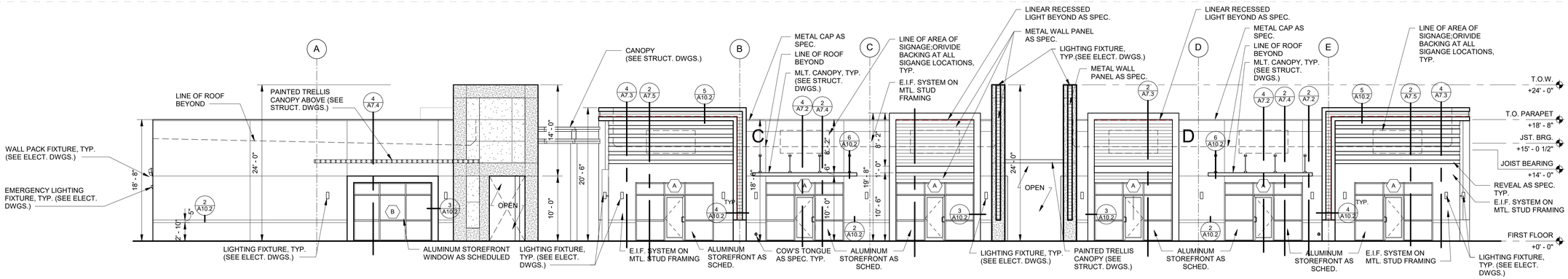
DATE: 08-14-2023

REVISIONS

#	Description	Date

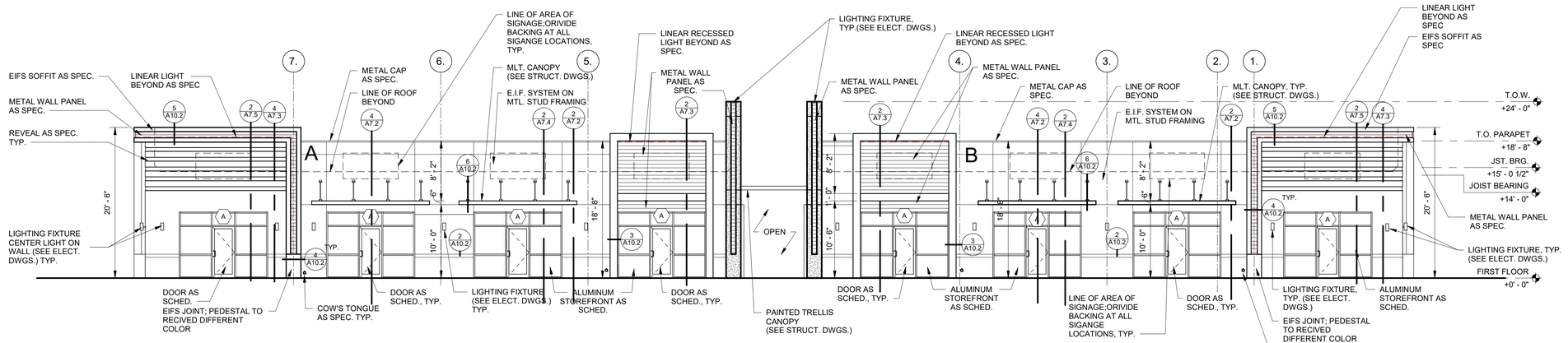
SHEET: **A4.5**

OF 12



1 NORTH OVERALL ELEVATION

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



2 WEST OVERALL ELEVATION

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

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fax:915.534.8083
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OVERALL ELEVATIONS

COMMISSION No. 23-010

DATE: 08-14-2023

REVISIONS

#	Description	Date

SHEET: **A5.0**

OF 12

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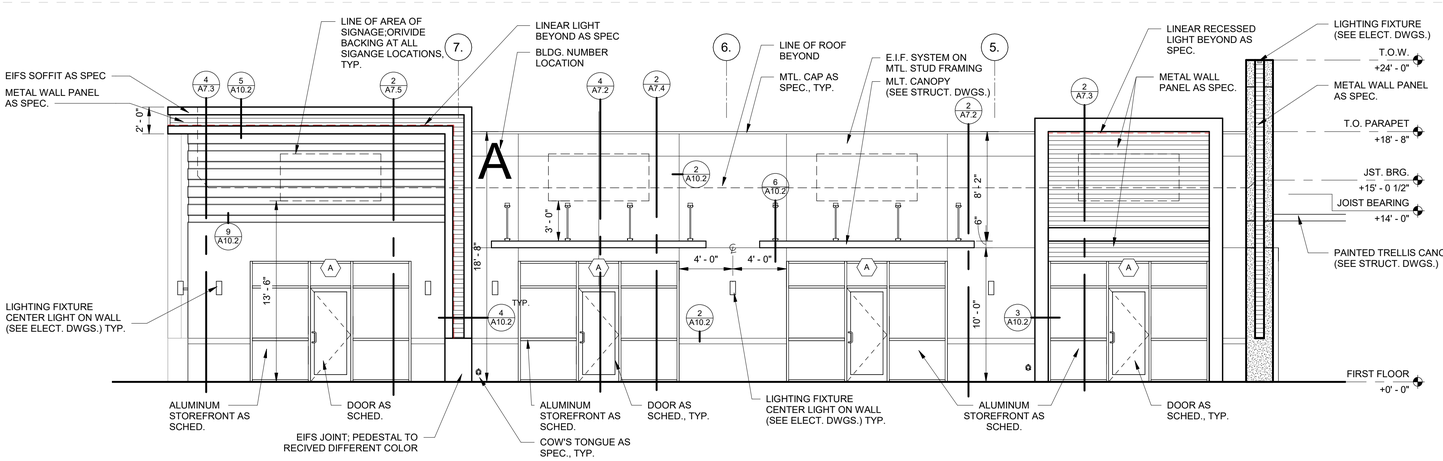
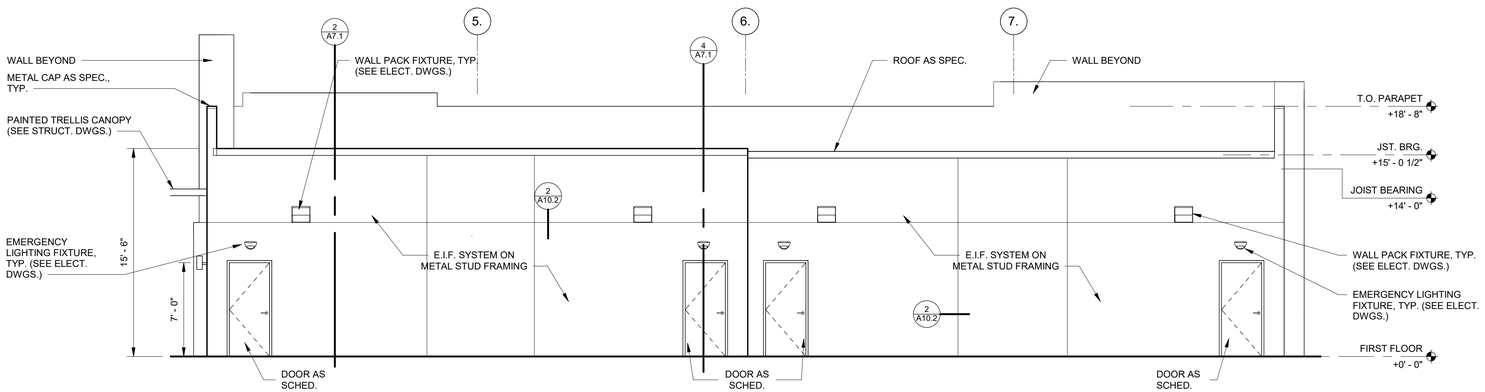


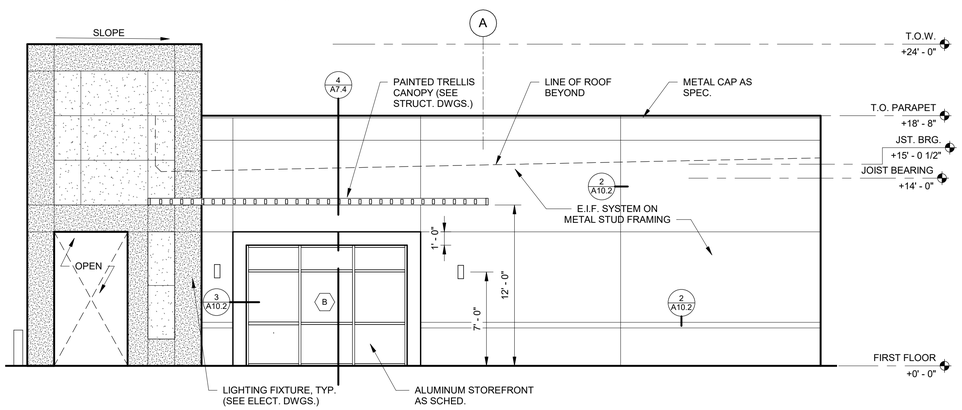
1 BLDG A EAST ELEV

SCALE: 3/16" = 1'-0"



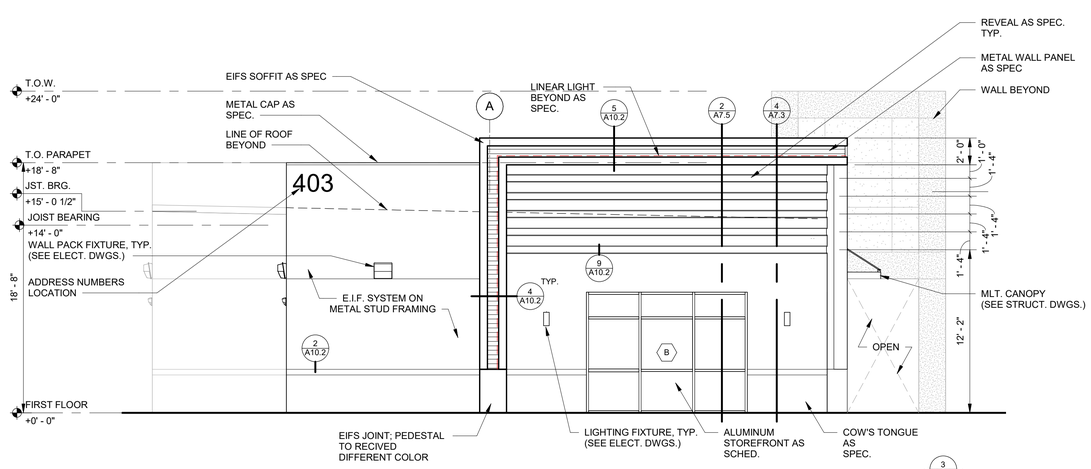
2 BLDG A WEST ELEV

SCALE: 3/16" = 1'-0"



3 BLDG A NORTH ELEV

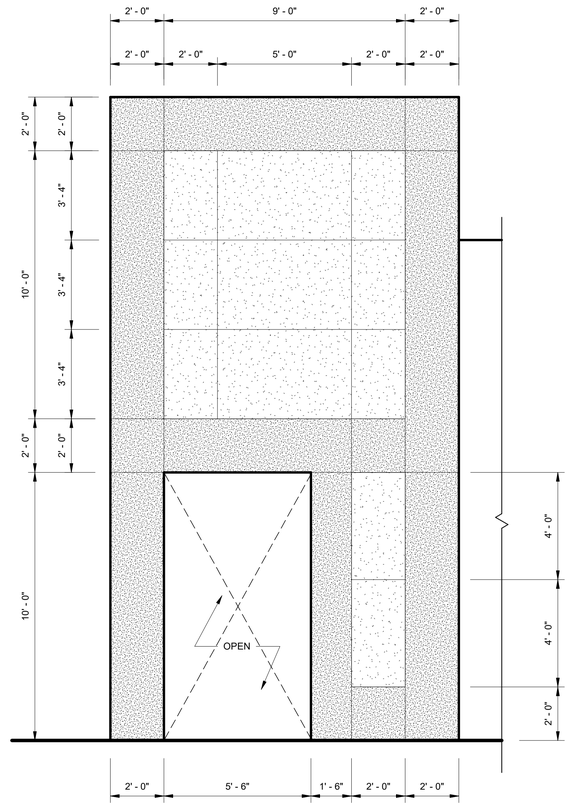
SCALE: 3/16" = 1'-0"



4 BLDG A SOUTH ELEV

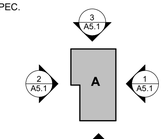
SCALE: 3/16" = 1'-0"

#	EXTERIOR FINISH SCHEDULE
01	FINISH A
02	FINISH B
03	FINISH C
04	FINISH D
05	FINISH E



5 BOOKSHELF ELEV. BLDG A & B

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



KEY PLAN BLDG A

SCALE: 1" = 80'-0"

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1810 Wyoming ave
el paso, tx 79903
ph: 915.534.8082
fax: 915.534.8083

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BLDG A EXTERIOR ELEVATIONS

COMMISSION No. 23-010

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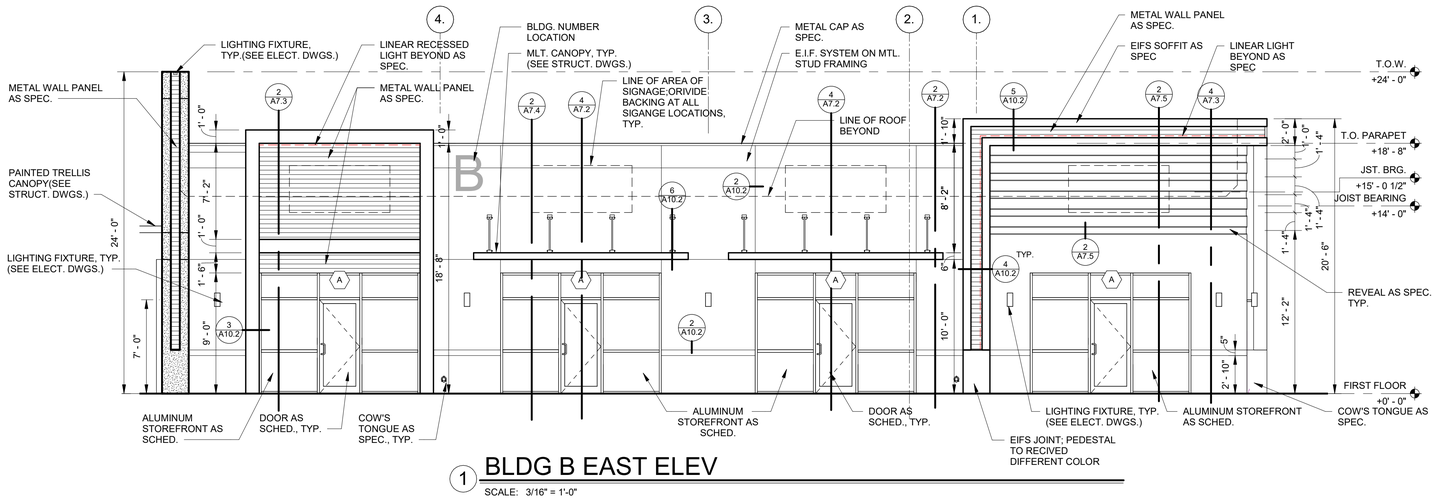
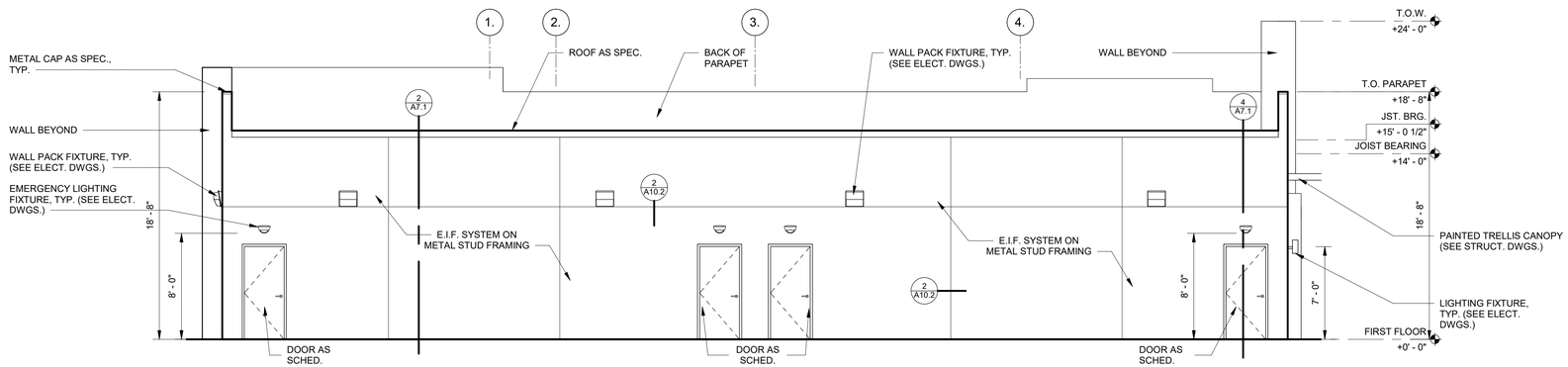


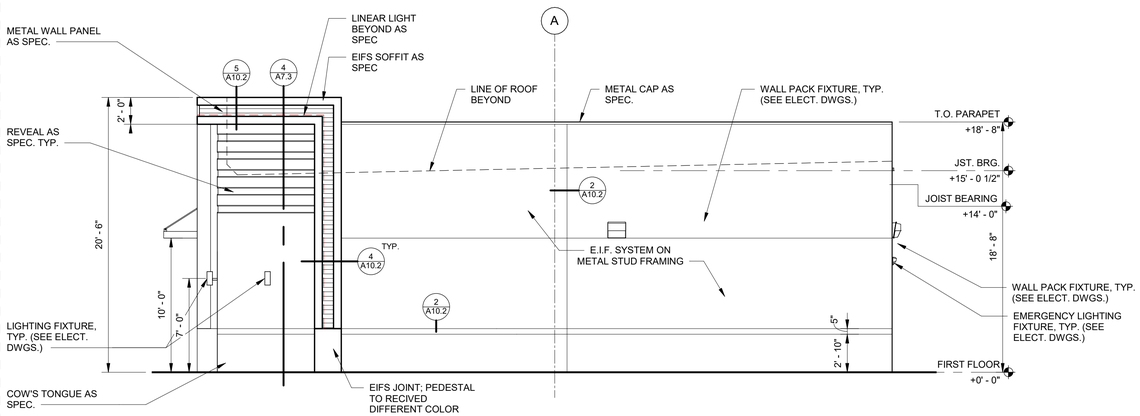
1 BLDG B EAST ELEV

SCALE: 3/16" = 1'-0"



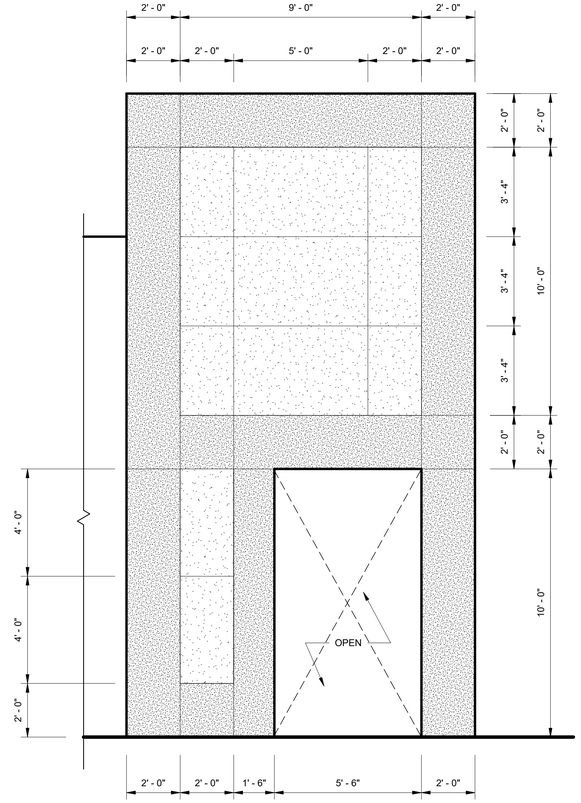
2 BLDG B WEST ELEV

SCALE: 3/16" = 1'-0"



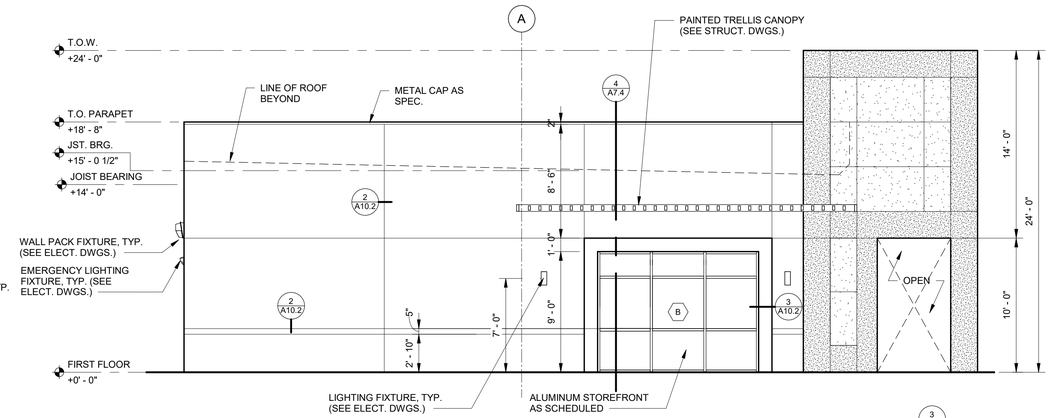
3 BLDG B NORTH ELEV

SCALE: 3/16" = 1'-0"



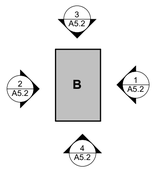
5 BOOKSHELF ELEV. BLDG A & B

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



4 BLDG B SOUTH ELEV

SCALE: 3/16" = 1'-0"



KEY PLAN BLDG B

SCALE: 1" = 80'-0"

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BLDG B EXTERIOR ELEVATIONS

COMMISSION No. 23-010

DATE: 08-14-2023

REVISIONS

#	Description	Date

SHEET: **A5.2**

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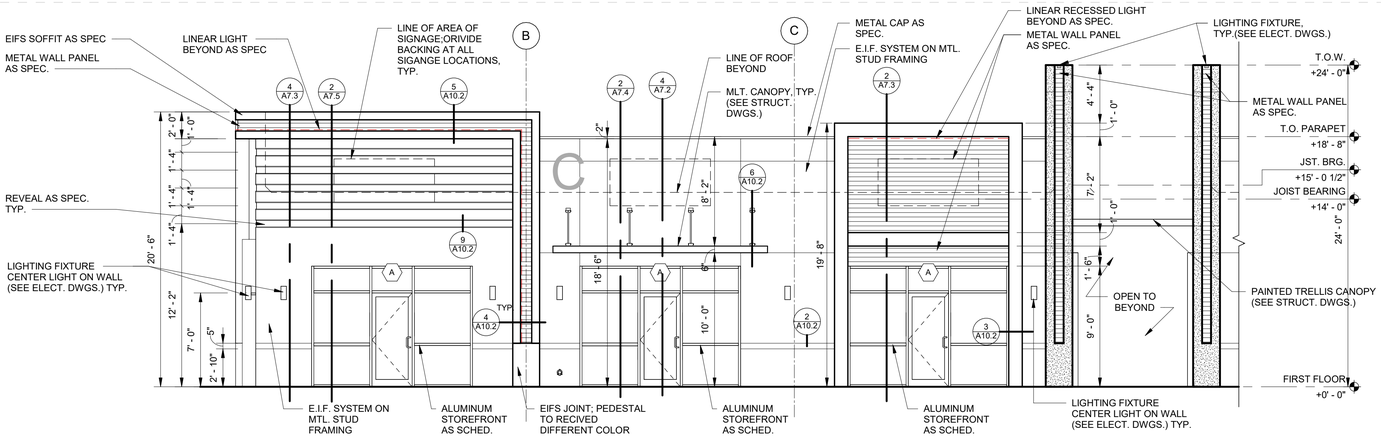
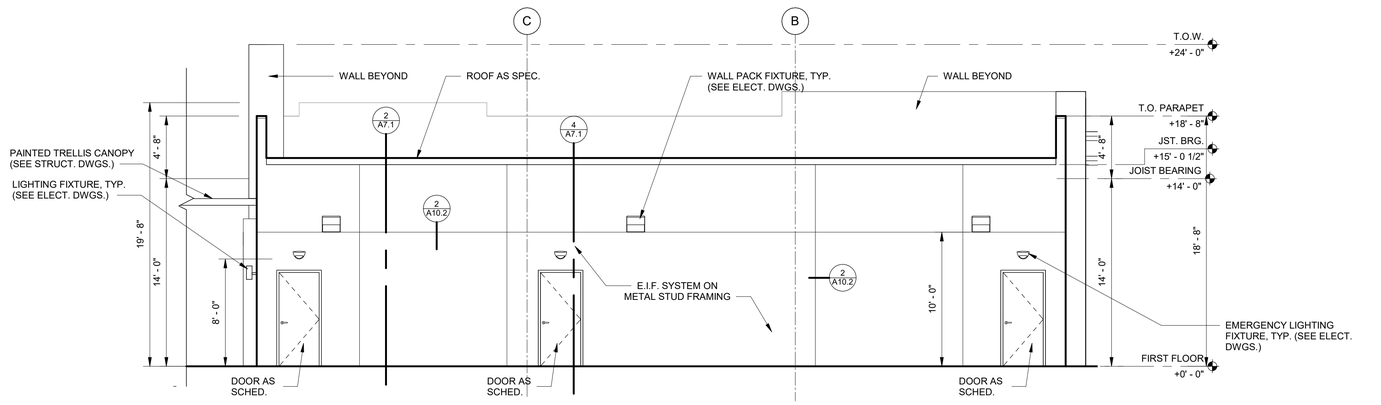


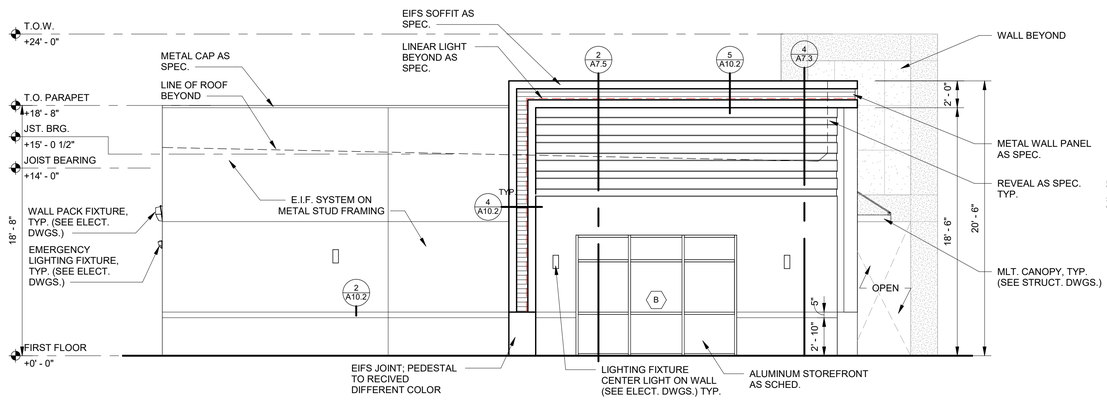
1 BLDG C SOUTH ELEV. (Bldg. D is O.H.)

SCALE: 3/16" = 1'-0"



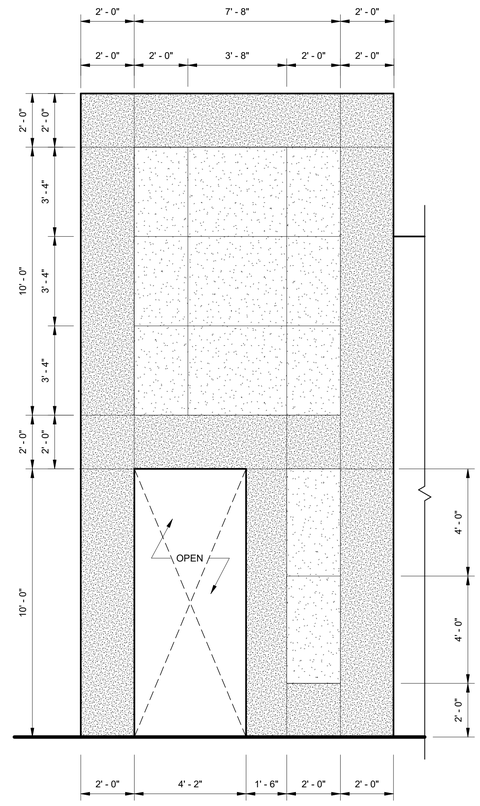
2 BLDG C NORTH ELEV. (Bldg. D is O.H.)

SCALE: 3/16" = 1'-0"



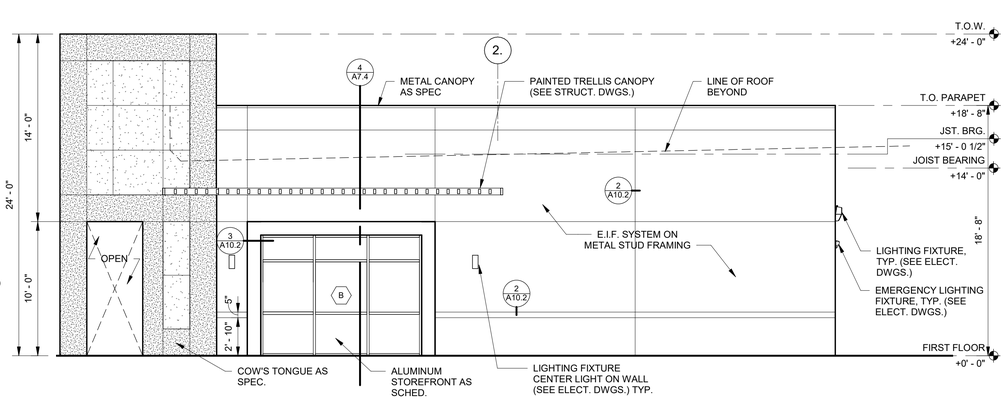
3 BLDG C WEST ELEV. (Bldg. D is O.H.)

SCALE: 3/16" = 1'-0"



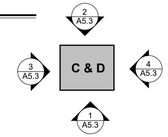
5 BOOKSHELF ELEV. BLDG C & D

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



4 BLDG C EAST ELEV. (Bldg. D is O.H.)

SCALE: 3/16" = 1'-0"



KEY PLAN BLDG C & D

SCALE: 1" = 80'-0"

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BLDG C & D EXTERIOR ELEVATIONS

COMMISSION No. 23-010

DATE: 08-14-2023

REVISIONS

#	Description	Date

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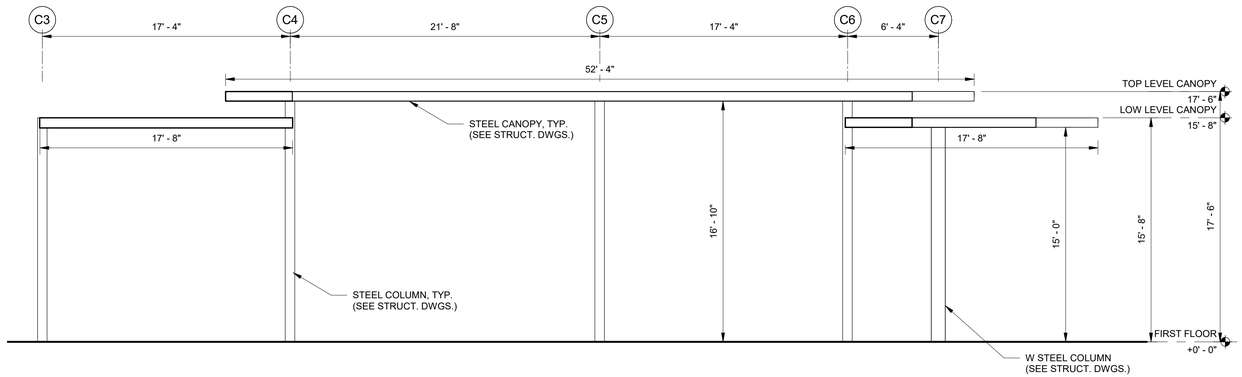
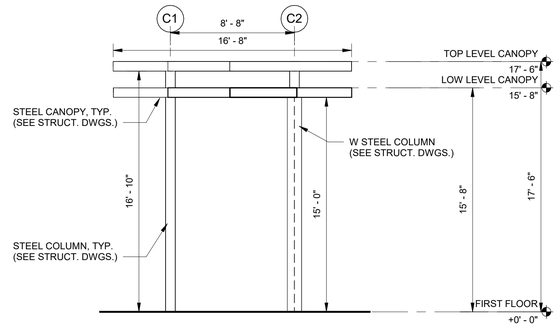


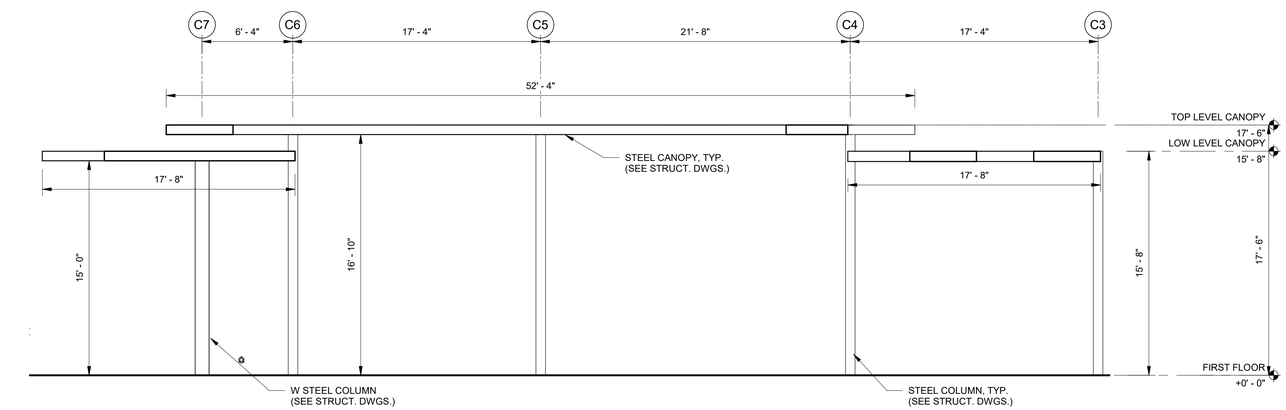
1 CANOPY ELEVATION

SCALE: 1 : 60



3 CANOPY ELEVATION

SCALE: 1 : 60



2 CANOPY ELEVATION

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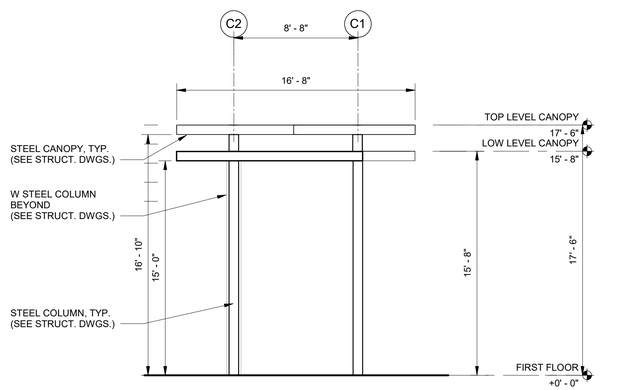

4 CANOPY ELEVATION

SCALE: 1 : 60

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CHARLES MARSHALL
26453
STATE OF TEXAS

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1810 Wyoming ave
el paso, tx 79903
ph:915.534.8082
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CANOPY ELEVATIONS

COMMISSION No.
23-010

DATE: 08-14-2023

REVISIONS

#	Description	Date

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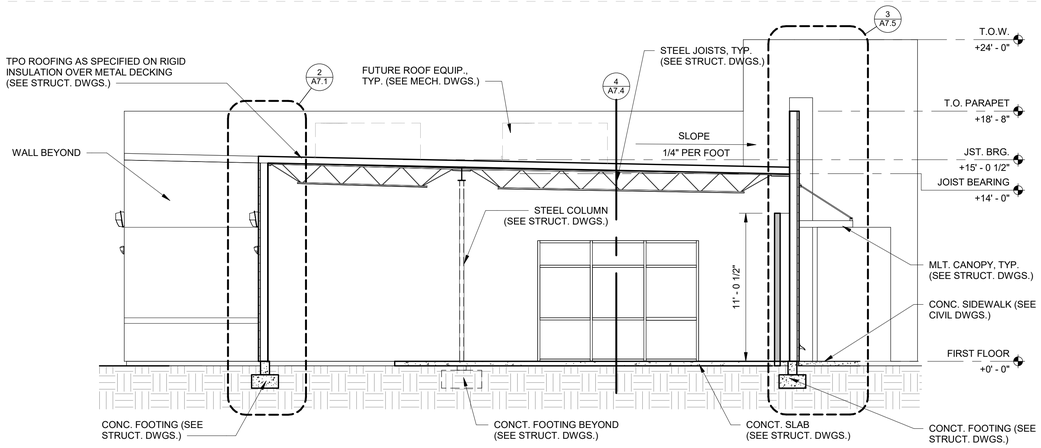
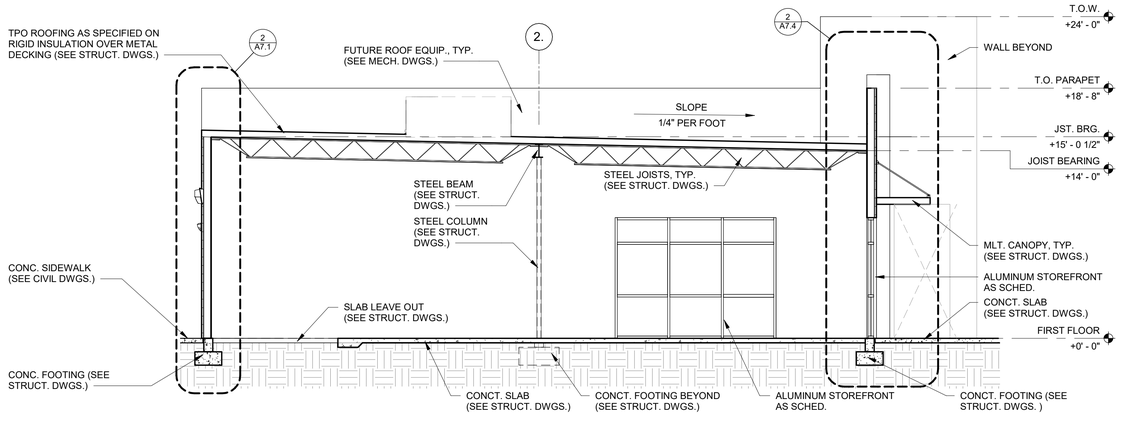
OF 12



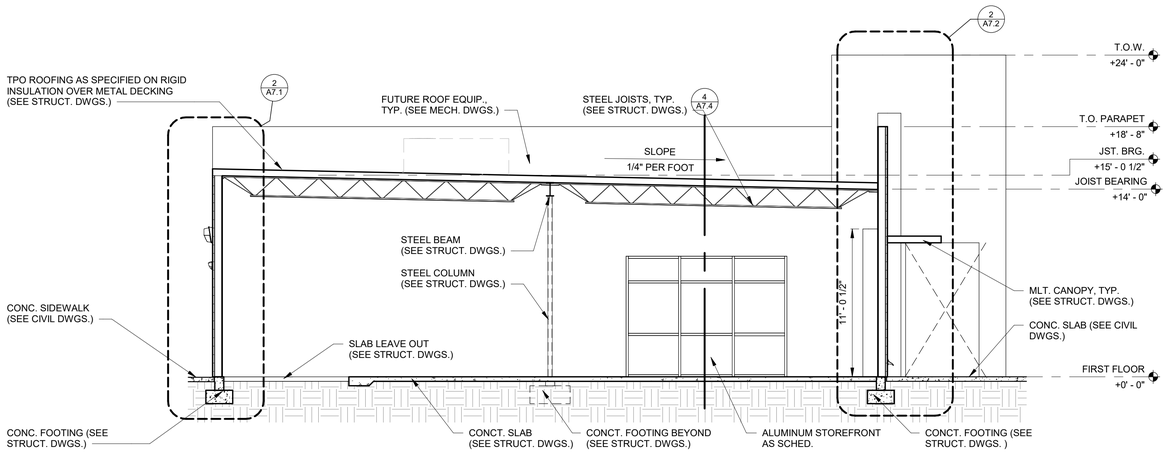
1 BLDG A SHORT SECTION

SCALE: 3/16" = 1'-0"



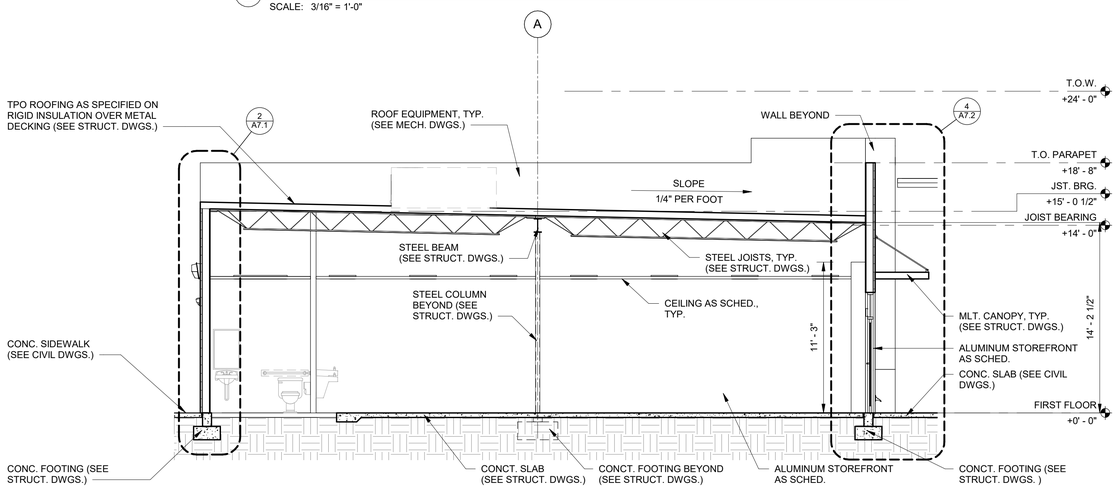
4 BLDG C BLDG SECTION (Bldg D O.H.)

SCALE: 3/16" = 1'-0"



2 BLDG A LONG SECTION

SCALE: 3/16" = 1'-0"



3 BLDG B BLDG SECTION

SCALE: 3/16" = 1'-0"

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BUILDING SECTIONS

COMMISSION No. 23-010

DATE: 08-14-2023

REVISIONS

#	Description	Date

SHEET: **A6.1**

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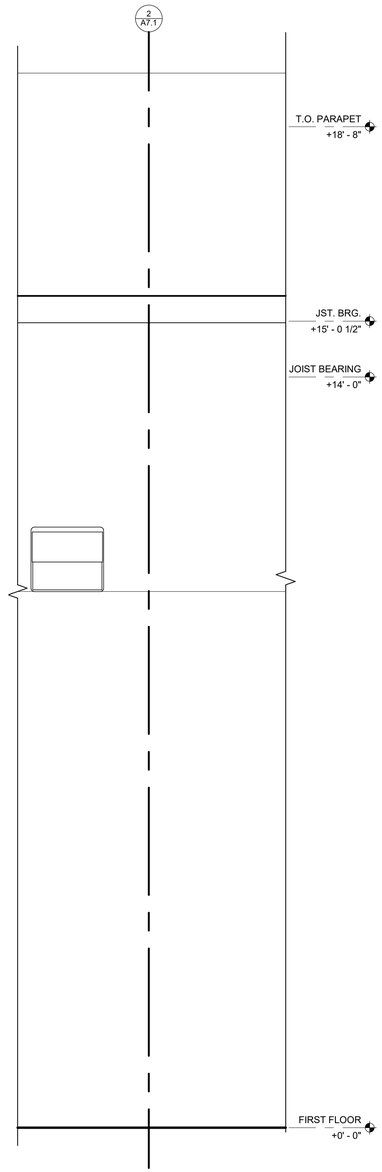
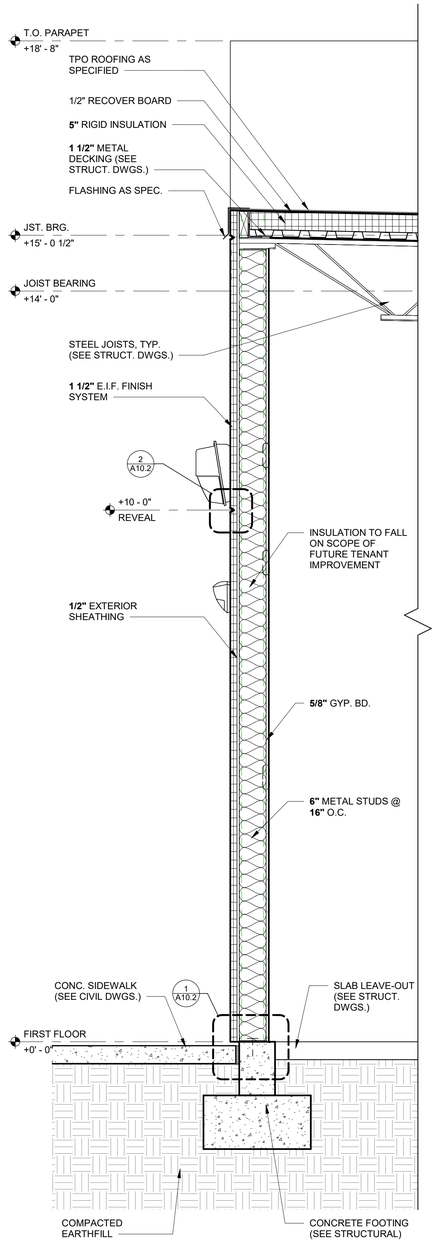
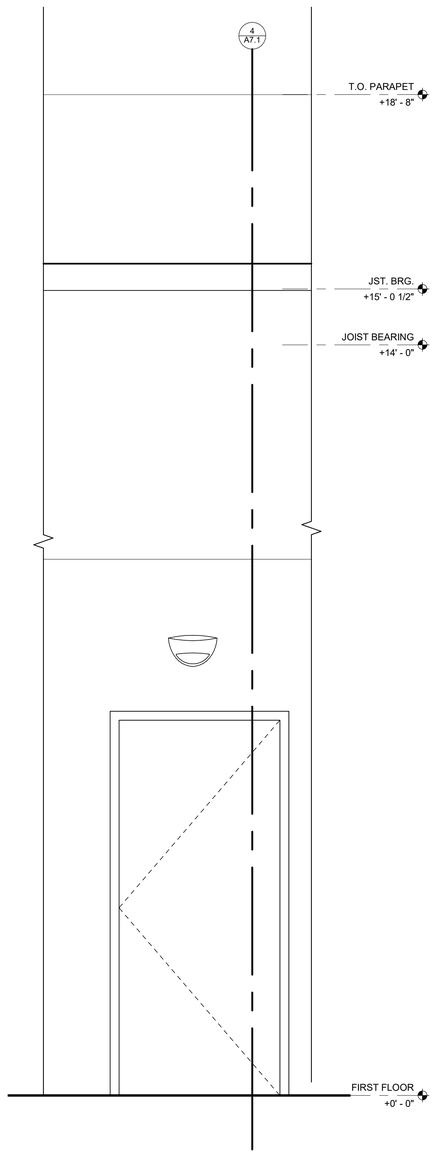
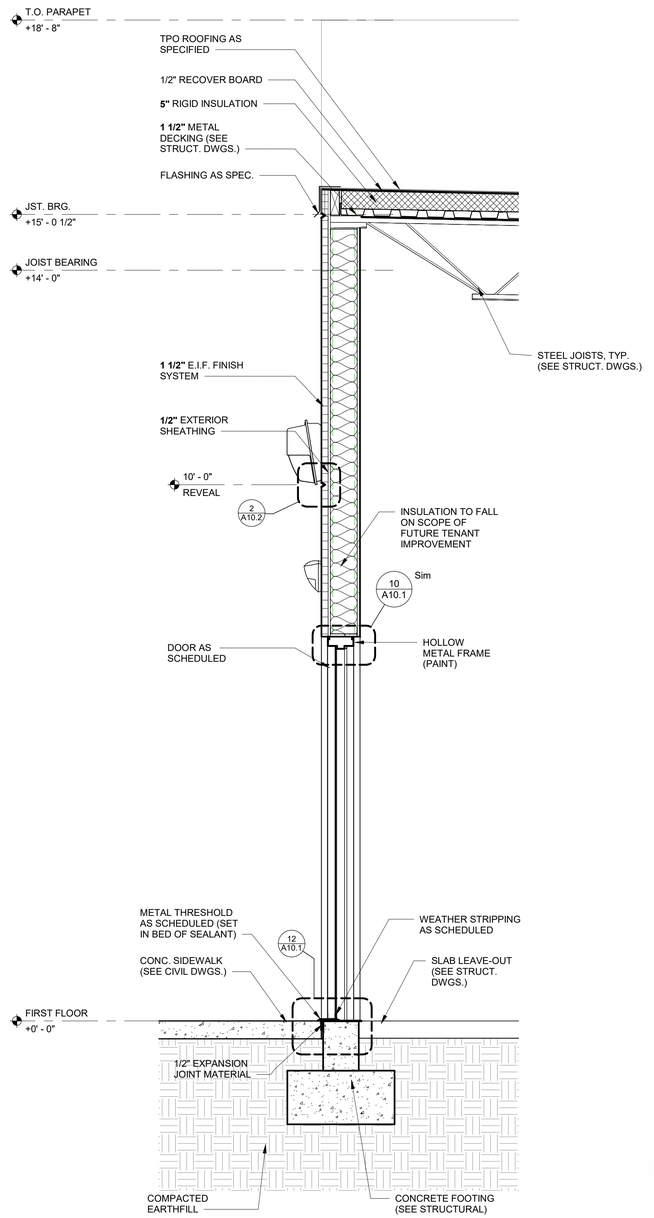




1 PARTIAL ELEVATION
SCALE: 3/4" = 1'-0"

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





3 PARTIAL ELEVATION
SCALE: 3/4" = 1'-0"

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

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AT
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1810 Wyoming ave
el paso, tx 79903
ph: 915.534.8082
fax: 915.534.8083
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WALL SECTIONS

COMMISSION No. 23-010
DATE: 08-14-2023
REVISIONS
Description Date

SHEET: **A7.1**
OF 12

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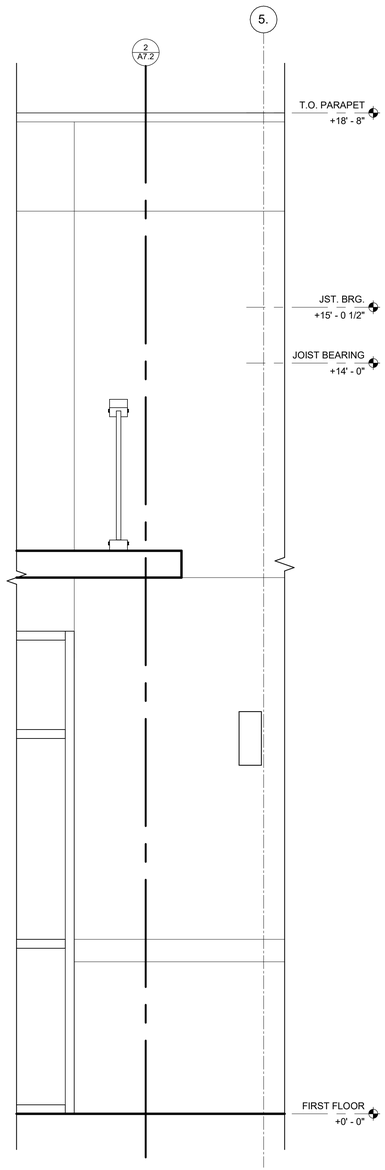
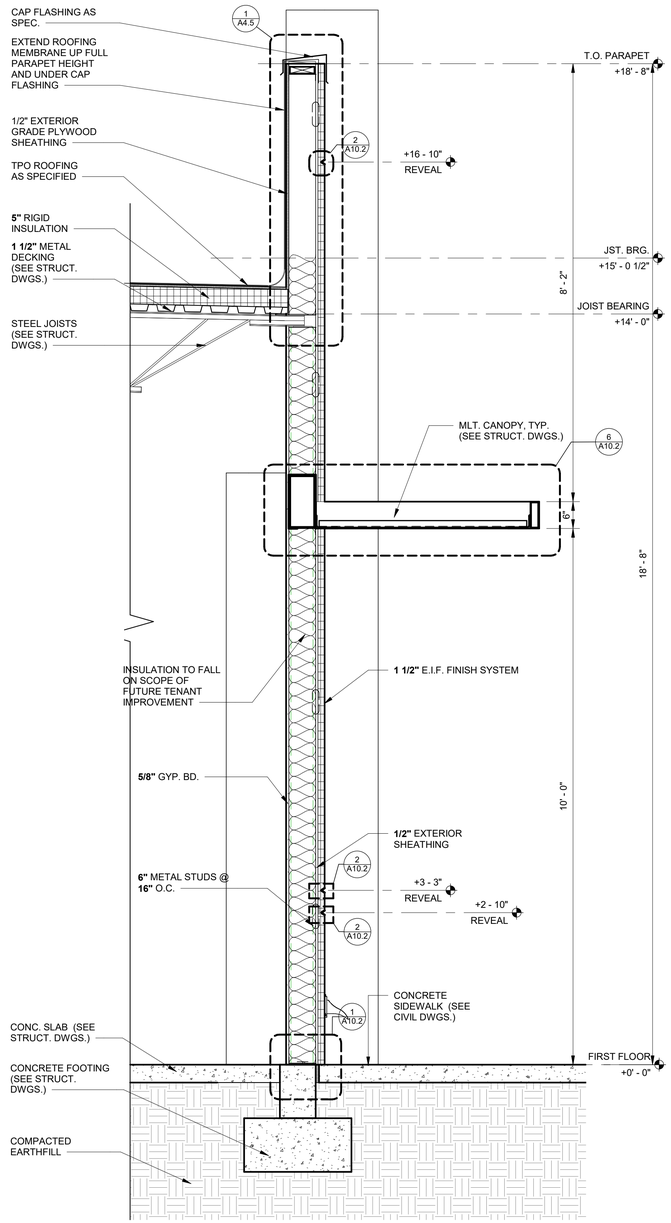


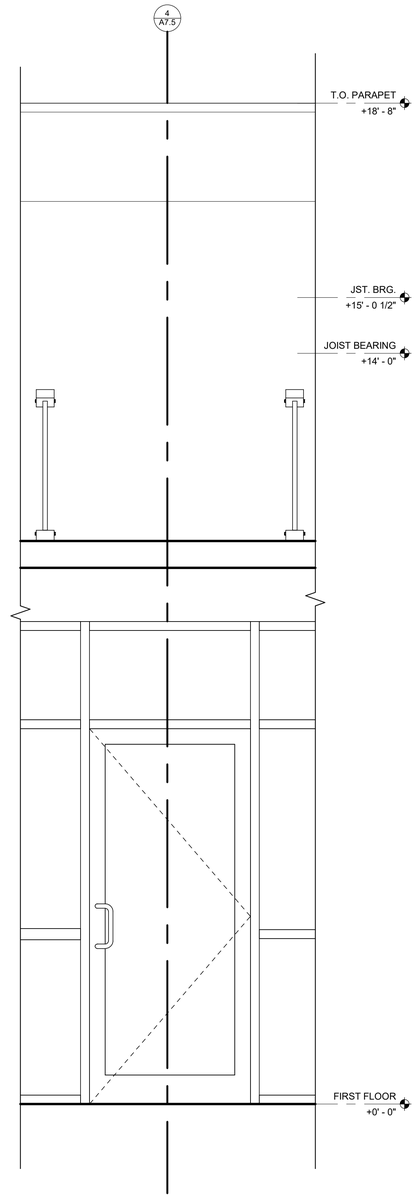
1 PARTIAL ELEVATION

SCALE: 3/4" = 1'-0"



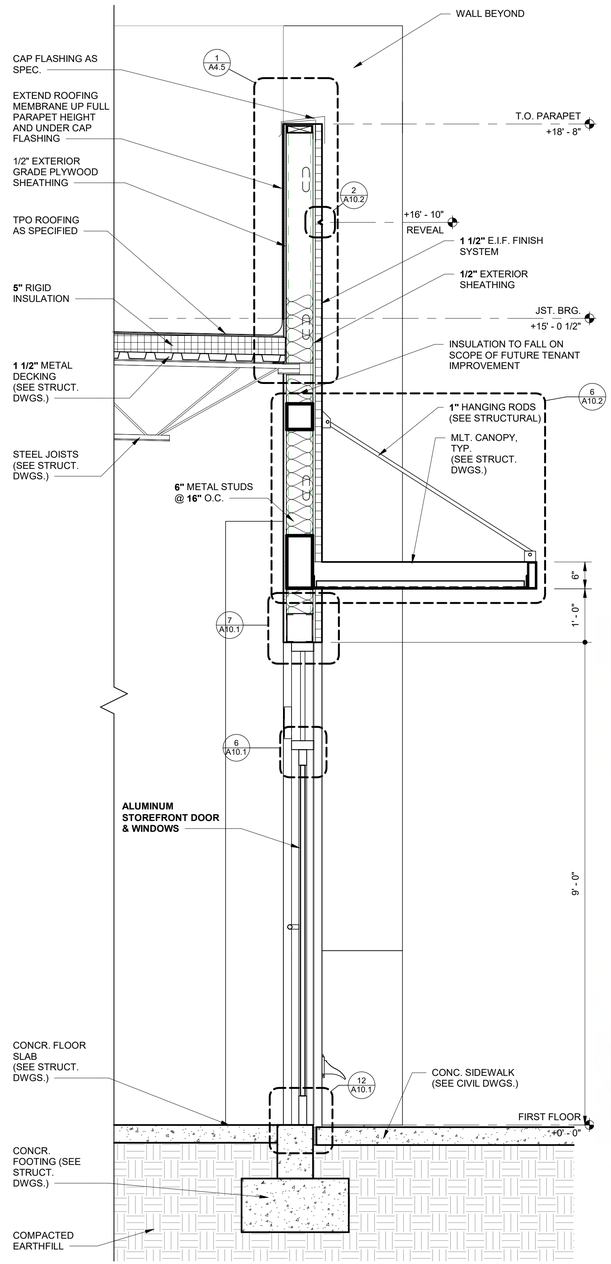
2 WALL SECTION

SCALE: 3/4" = 1'-0"



3 PARTIAL ELEVATION

SCALE: 3/4" = 1'-0"



4 WALL SECTION

SCALE: 3/4" = 1'-0"

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CHARLES MARSH
26453
STATE OF TEXAS

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AT

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1810 Wyoming ave
el paso tx 79903
ph:915.534.8082
fax:915.534.8083
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WALL SECTIONS

COMMISSION No. 23-010

DATE: 08-14-2023

REVISIONS

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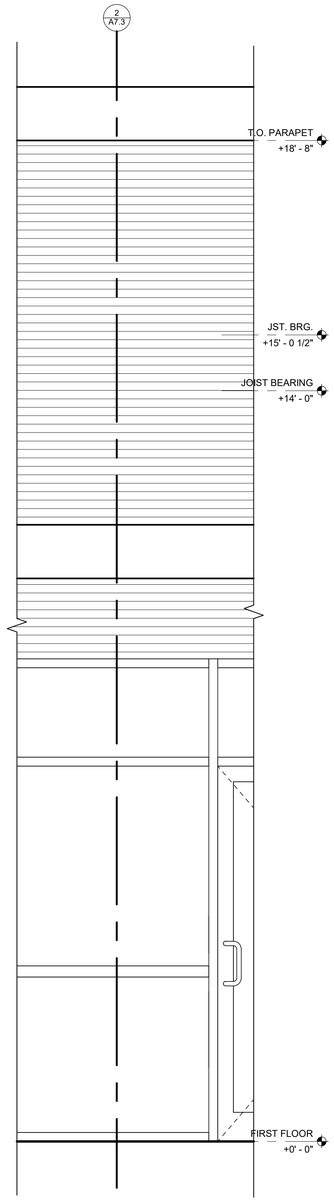
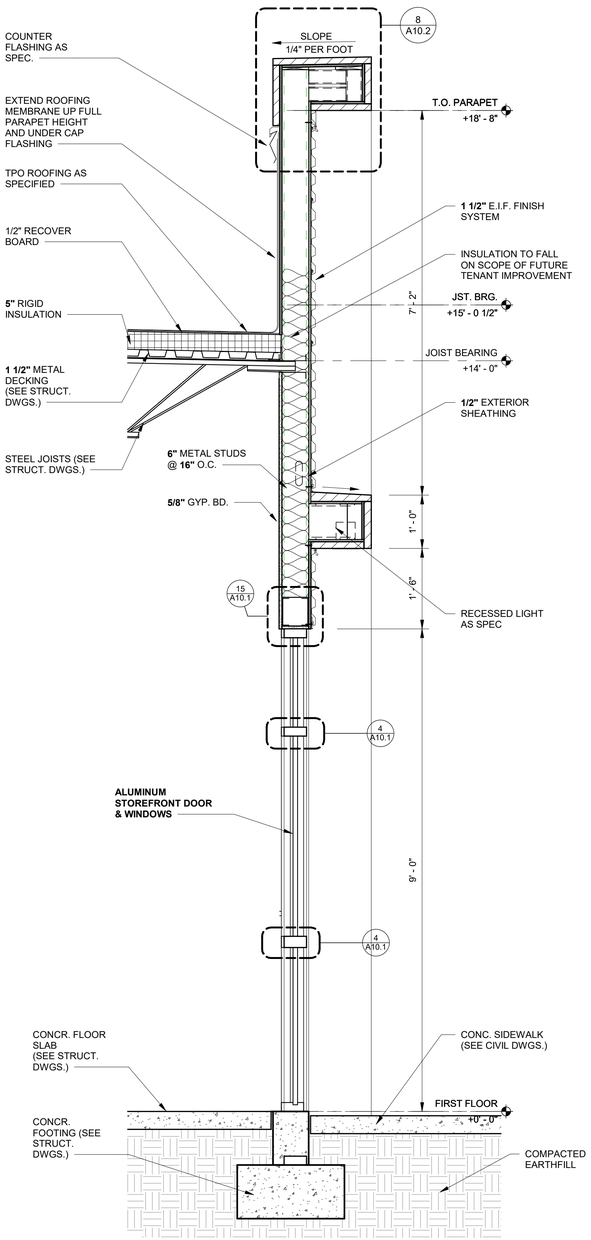


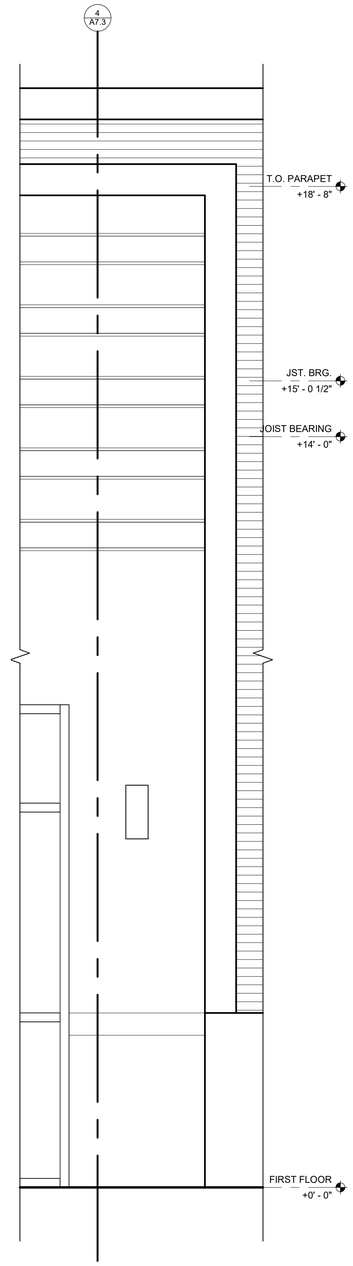


1 PARTIAL ELEVATION

SCALE: 3/4" = 1'-0"

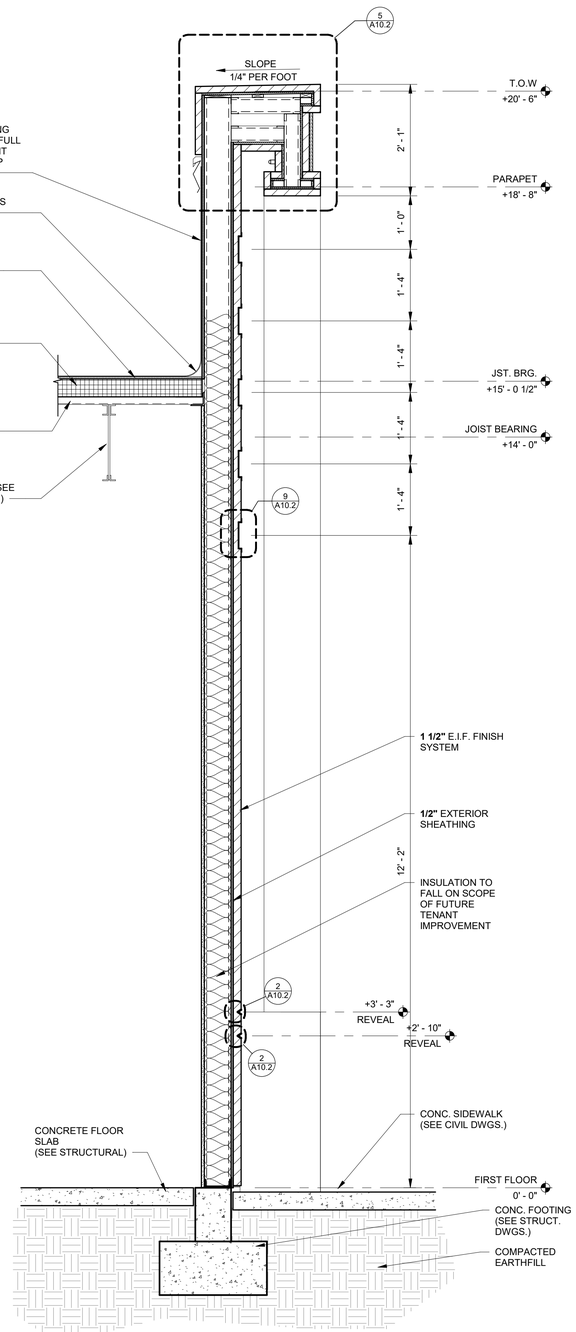
2 WALL SECTION

SCALE: 3/4" = 1'-0"



3 PARTIAL ELEVATION

SCALE: 3/4" = 1'-0"



4 WALL SECTION

SCALE: 3/4" = 1'-0"

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CHARLES MARSH
26457
STATE OF TEXAS

ABHA RETAIL CENTER

AT

403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

1810 Wyoming ave
el paso, tx 79903
ph:915.534.8082
fax:915.534.8083

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WALL SECTION

COMMISSION No. 23-010

DATE: 08-14-2023

REVISIONS

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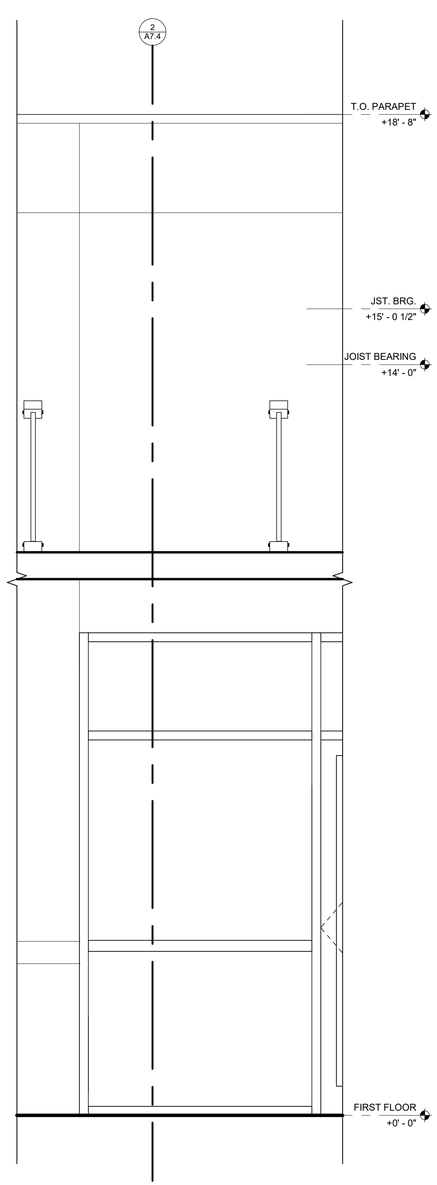
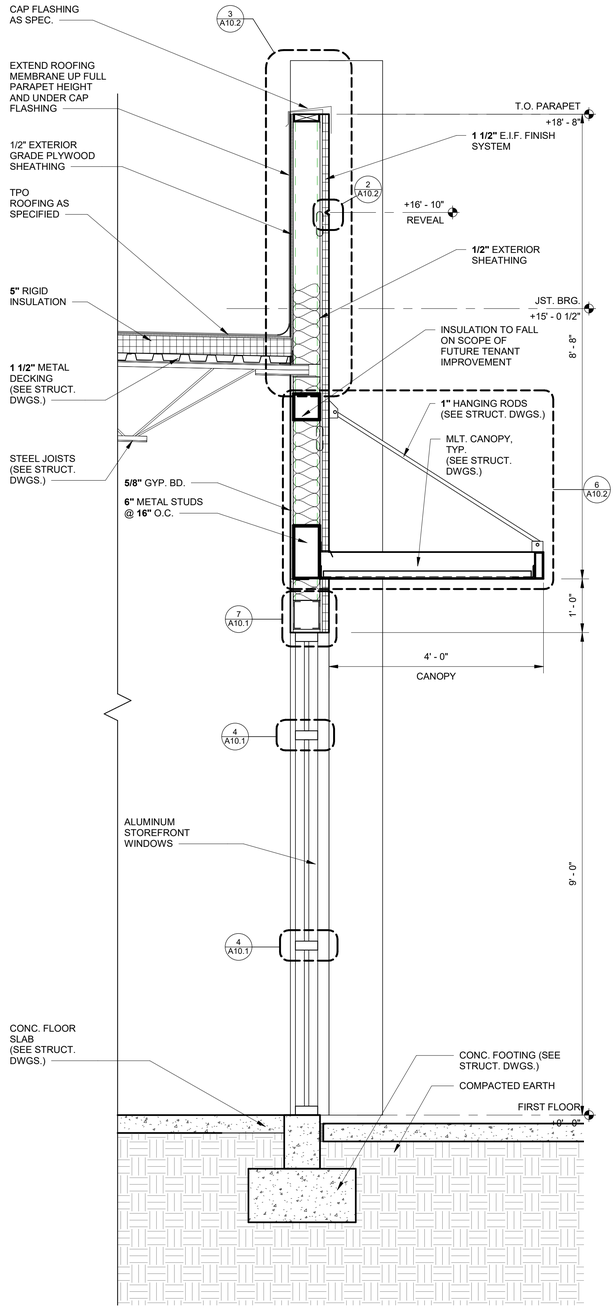


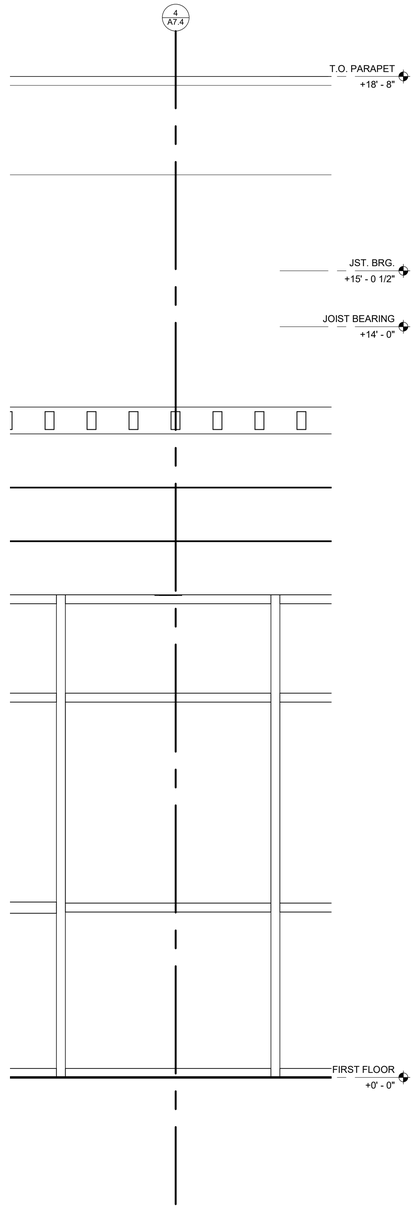
1 PARTIAL ELEVATION

SCALE: 3/4" = 1'-0"



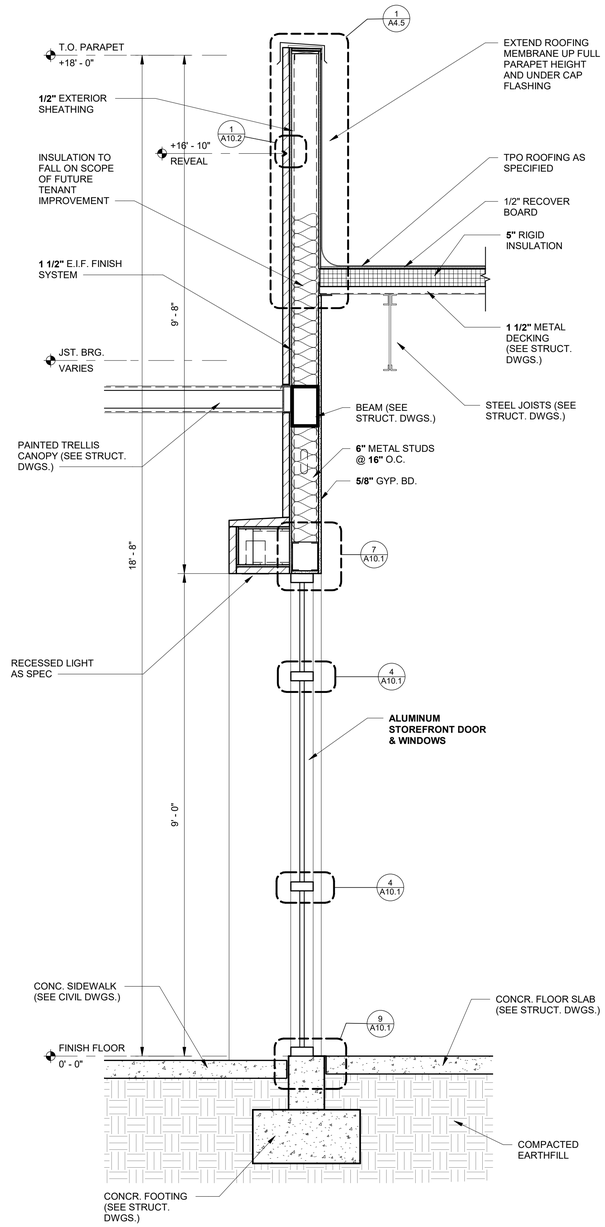
2 WALL SECTION

SCALE: 3/4" = 1'-0"



3 PARTIAL ELEVATION

SCALE: 3/4" = 1'-0"



4 WALL SECTION

SCALE: 3/4" = 1'-0"

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26457
STATE OF TEXAS

ABHA RETAIL CENTER

AT

403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

1810 Wyoming ave
el paso, tx 79903
ph:915.534.8082
fax:915.534.8083

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WALL SECTIONS

COMMISSION No. 23-010

DATE: 08-14-2023

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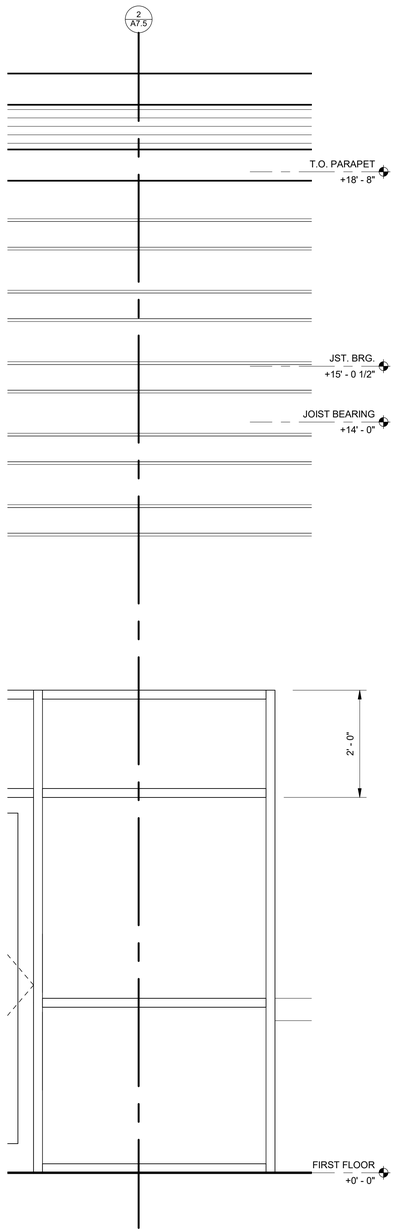

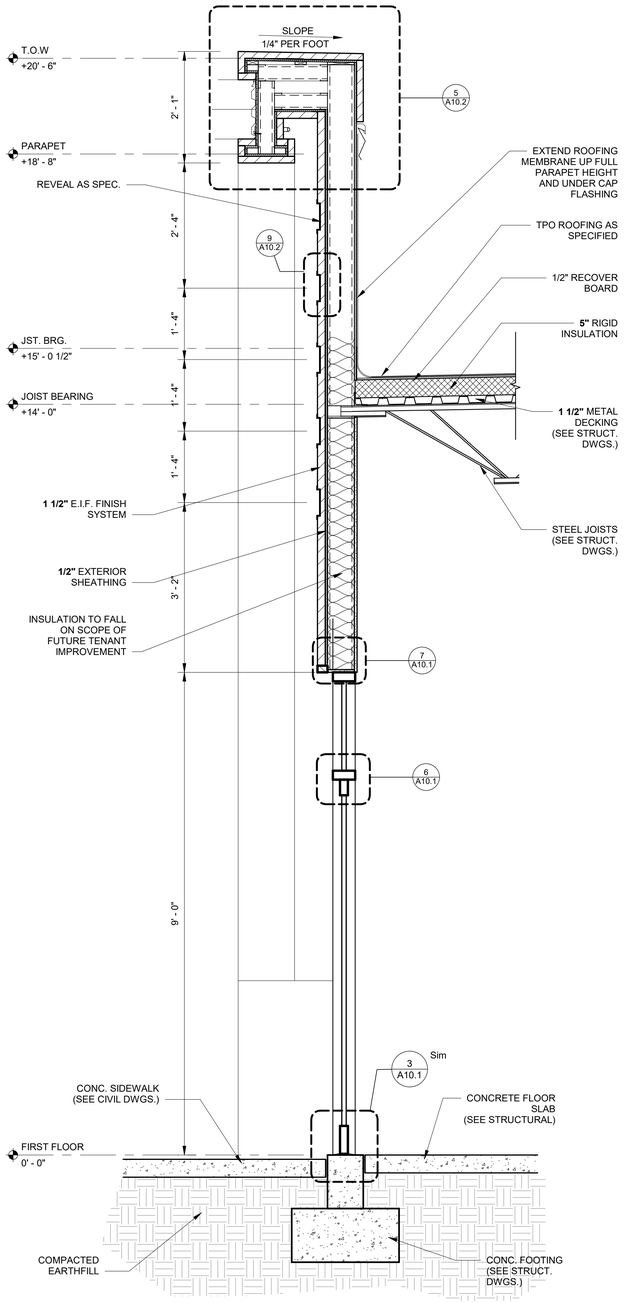

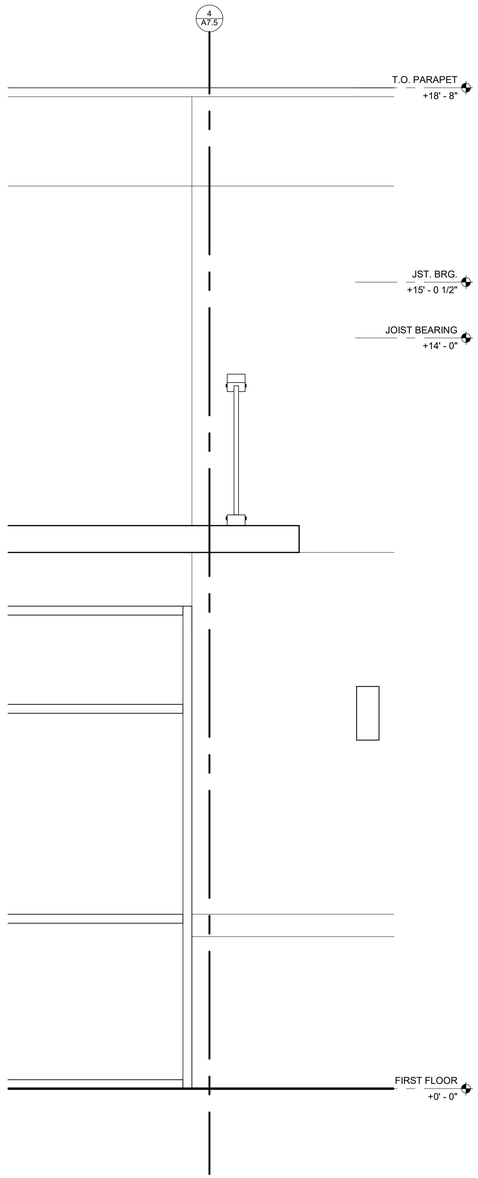

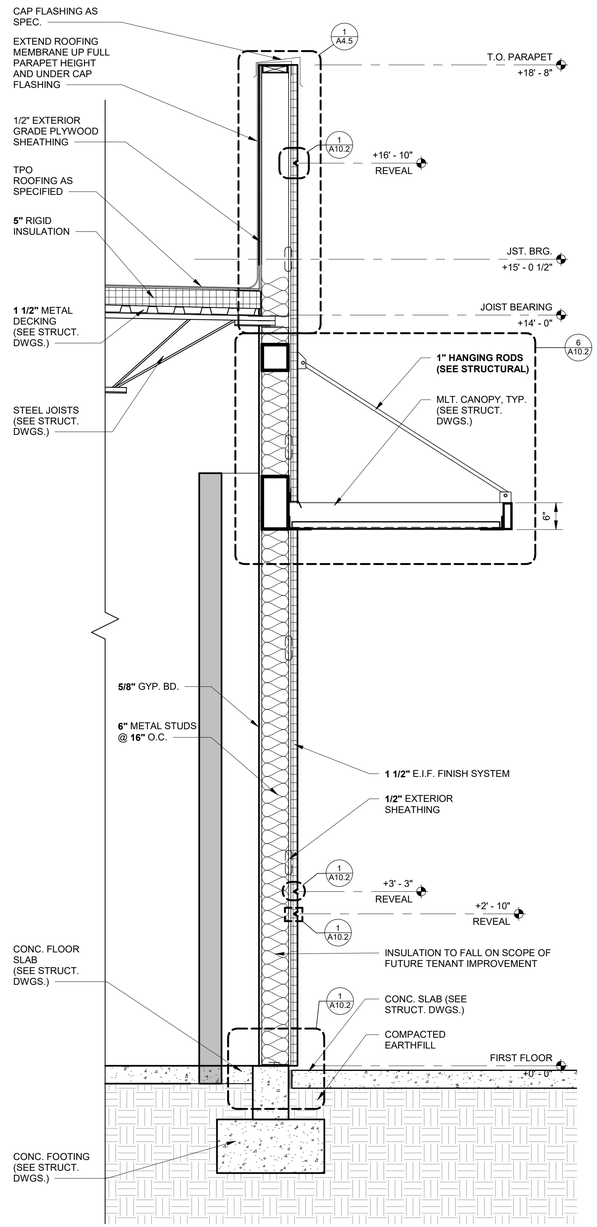

1 PARTIAL ELEVATION
SCALE: 3/4" = 1'-0"

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

3 PARTIAL ELEVATION
SCALE: 3/4" = 1'-0"

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

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26457
STATE OF TEXAS

ABHA RETAIL CENTER
AT
403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

1810 Wyoming ave
el paso, tx 79903
ph:915.534.8082
fax:915.534.8083
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WALL SECTIONS

COMMISSION No. 23-010
DATE: 08-14-2023
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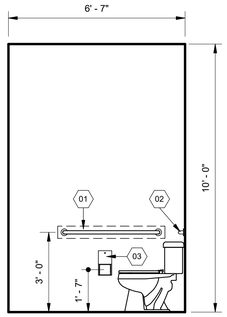
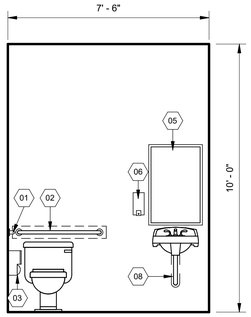
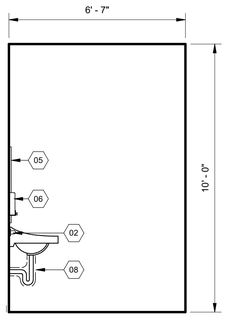


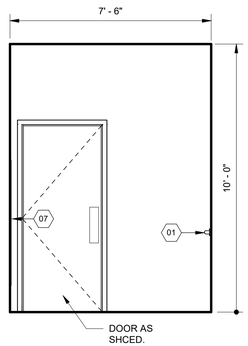
1 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



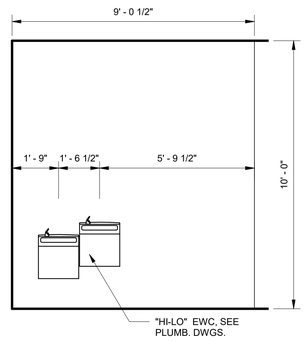
2 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



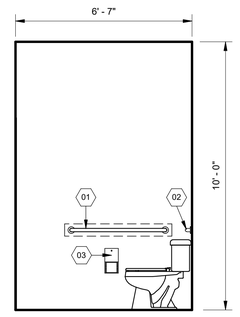
3 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



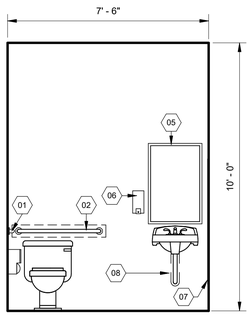
4 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



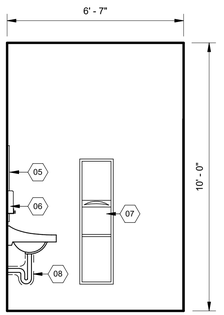
5 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



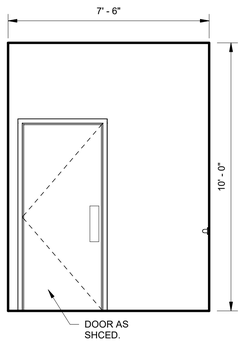
6 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



7 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



8 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"



9 INTERIOR ELEVATION
SCALE: 3/8" = 1'-0"

ACCESSORY LEGEND

NO.	ACCESSORY	REMARKS
01	42-INCH H.C. GRAB BAR AT SIDE OF H.C. TOILET	
02	36-INCH H.C. GRAB BAR AT SIDE OF H.C. TOILET	
03	TOILET TISSUE DISPENSER	
05	MIRROR UNIT	
06	LIQUID-SOAP DISPENSER	
07	PAPER TOWEL DISPENSER	
08	UNDERLAVATORY GUARD	
09	MOP & BROOM HOLDER W/ UTYLITY SHELF	

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REGISTERED ARCHITECT
CHARLES MARSHALL PEREZ
26453
STATE OF TEXAS

ABHA RETAIL CENTER
AT
403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

1810 Wyoming ave
el paso, tx 79903
ph:915.534.8082
fax:915.534.8083
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INTERIOR ELEVATIONS

COMMISSION No. 23-010

DATE: 08-14-2023

REVISIONS

#	Description	Date

SHEET: **A8.1**

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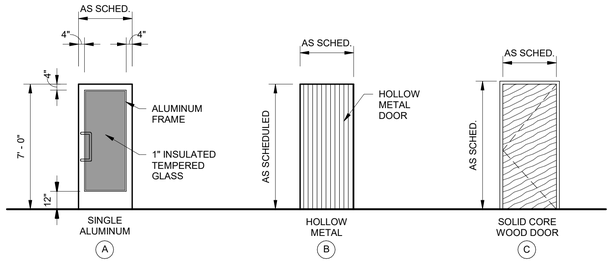
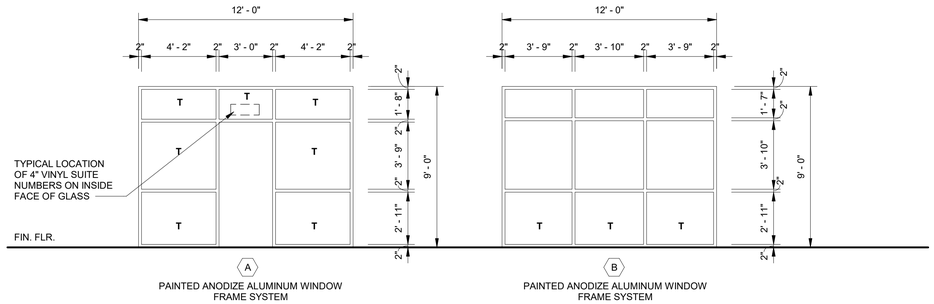


DOOR TYPES

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



T : 1" INSULATED AND TEMPERED GLASS W/ LOW-E GLAZING

WINDOW TYPES

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

HARDWARE SCHEDULE

SET A

2 MORTISE CYLINDER	1E-64 STD	626	BE

SET B

3 BUTT HINGE	FBB179 4.5"x4.5"	26D	ST
1 EXIT DEVICE	QED111xQET160 E	626	SH
1 MORTISE CYLINDER	1E-64 STD	689	SH
1 DOOR CLOSER	QDC111 SN	630	TR
1 DOOR CLOSER	QDC119	626	TR
1 KICK PLATE	K0050 10"x34"	630	TR
1 GASKETING SET	160 V FATT 3'x7'		NA
1 DRIP CAP	16 A FATT 40"		NA
1 DOOR SWEEP	198 NA 36"		NA
1 SADDLE THRESHOLD	425 E 36"		NA

SET C

3 BUTT HINGE	FBB179 4.5"x4.5"	26D	ST
1 PRIVACY SET	QCL240 E	626	SH
1 DOOR CLOSER	QDC211 SN	689	SH
1 KICK PLATE	K0050 10"x34"	630	TR
1 FLOOR STOP	1214	626	TR
1 COAT HOOK	3072	630	TR
1 GASKETING	2525 B-17 17'		NA

DOOR SCHEDULE

NO.	SIZE WIDTH	SIZE HEIGHT	SIZE THICK.	TYPE	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	HDW NO.	LABEL (MIN.)	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	REMARKS
101	3' - 0"	7' - 0"	0' - 1 3/4"	C	SOLID CORE	PAINT	H.M.	PAINT	01.00		13/A10.1	14/A10.1		
102	3' - 0"	7' - 0"	0' - 1 3/4"	C	SOLID CORE	PAINT	H.M.	PAINT	01.00		13/A10.1	14/A10.1		
A1	3' - 0"	7' - 0"	0' - 1 3/4"	B	H.M.	PAINT	H.M.	PAINT	02.00		10/A10.1	11/A10.1	12/A10.1	PANIC HARDWARE PUSH BAR
A2	3' - 0"	7' - 0"	0' - 1 3/4"	B	H.M.	PAINT	H.M.	PAINT	02.00		10/A10.1	11/A10.1	12/A10.1	PANIC HARDWARE PUSH BAR
A3	3' - 0"	7' - 0"	0' - 1 3/4"	B	H.M.	PAINT	H.M.	PAINT	02.00		10/A10.1	11/A10.1	12/A10.1	PANIC HARDWARE PUSH BAR
A4	3' - 0"	7' - 0"	0' - 1 3/4"	B	H.M.	PAINT	H.M.	PAINT	02.00		10/A10.1	11/A10.1	12/A10.1	PANIC HARDWARE PUSH BAR
A5	3' - 0"	7' - 0"	0' - 1 3/4"	A	ALUM.	ANOD.	ALUM.	ANOD.	03.00		1/A10.1	2/A10.1	3/A10.1	PANIC HARDWARE PUSH BAR
A6	3' - 0"	7' - 0"	0' - 1 3/4"	A	ALUM.	ANOD.	ALUM.	ANOD.	03.00		1/A10.1	2/A10.1	3/A10.1	PANIC HARDWARE PUSH BAR
A7	3' - 0"	7' - 0"	0' - 1 3/4"	A	ALUM.	ANOD.	ALUM.	ANOD.	03.00		1/A10.1	2/A10.1	3/A10.1	PANIC HARDWARE PUSH BAR
A8	3' - 0"	7' - 0"	0' - 1 3/4"	A	ALUM.	ANOD.	ALUM.	ANOD.	03.00		1/A10.1	2/A10.1	3/A10.1	PANIC HARDWARE PUSH BAR
B1	3' - 0"	7' - 0"	0' - 1 3/4"	B	H.M.	PAINT	H.M.	PAINT	02.00		10/A10.1	11/A10.1	12/A10.1	PANIC HARDWARE PUSH BAR
B2	3' - 0"	7' - 0"	0' - 1 3/4"	B	H.M.	PAINT	H.M.	PAINT	02.00		10/A10.1	11/A10.1	12/A10.1	PANIC HARDWARE PUSH BAR
B3	3' - 0"	7' - 0"	0' - 1 3/4"	B	H.M.	PAINT	H.M.	PAINT	02.00		10/A10.1	11/A10.1	12/A10.1	PANIC HARDWARE PUSH BAR
B4	3' - 0"	7' - 0"	0' - 1 3/4"	B	H.M.	PAINT	H.M.	PAINT	02.00		10/A10.1	11/A10.1	12/A10.1	PANIC HARDWARE PUSH BAR
B5	3' - 0"	7' - 0"	0' - 1 3/4"	A	ALUM.	ANOD.	ALUM.	ANOD.	03.00		1/A10.1	2/A10.1	3/A10.1	PANIC HARDWARE PUSH BAR
B6	3' - 0"	7' - 0"	0' - 1 3/4"	A	ALUM.	ANOD.	ALUM.	ANOD.	03.00		1/A10.1	2/A10.1	3/A10.1	PANIC HARDWARE PUSH BAR
B7	3' - 0"	7' - 0"	0' - 1 3/4"	A	ALUM.	ANOD.	ALUM.	ANOD.	03.00		1/A10.1	2/A10.1	3/A10.1	PANIC HARDWARE PUSH BAR
B8	3' - 0"	7' - 0"	0' - 1 3/4"	A	ALUM.	ANOD.	ALUM.	ANOD.	03.00		1/A10.1	2/A10.1	3/A10.1	PANIC HARDWARE PUSH BAR
C1	3' - 0"	7' - 0"	0' - 1 3/4"	B	H.M.	PAINT	H.M.	PAINT	02.00		10/A10.1	11/A10.1	12/A10.1	PANIC HARDWARE PUSH BAR
C2	3' - 0"	7' - 0"	0' - 1 3/4"	B	H.M.	PAINT	H.M.	PAINT	02.00		10/A10.1	11/A10.1	12/A10.1	PANIC HARDWARE PUSH BAR
C3	3' - 0"	7' - 0"	0' - 1 3/4"	B	H.M.	PAINT	H.M.	PAINT	02.00		10/A10.1	11/A10.1	12/A10.1	PANIC HARDWARE PUSH BAR
C4	3' - 0"	7' - 0"	0' - 1 3/4"	A	ALUM.	ANOD.	ALUM.	ANOD.	03.00		1/A10.1	2/A10.1	3/A10.1	PANIC HARDWARE PUSH BAR
C5	3' - 0"	7' - 0"	0' - 1 3/4"	A	ALUM.	ANOD.	ALUM.	ANOD.	03.00		1/A10.1	2/A10.1	3/A10.1	PANIC HARDWARE PUSH BAR
C6	3' - 0"	7' - 0"	0' - 1 3/4"	A	ALUM.	ANOD.	ALUM.	ANOD.	03.00		1/A10.1	2/A10.1	3/A10.1	PANIC HARDWARE PUSH BAR
D1	3' - 0"	7' - 0"	0' - 1 3/4"	B	H.M.	PAINT	H.M.	PAINT	02.00		10/A10.1	11/A10.1	12/A10.1	PANIC HARDWARE PUSH BAR
D2	3' - 0"	7' - 0"	0' - 1 3/4"	B	H.M.	PAINT	H.M.	PAINT	02.00		10/A10.1	11/A10.1	12/A10.1	PANIC HARDWARE PUSH BAR
D3	3' - 0"	7' - 0"	0' - 1 3/4"	B	H.M.	PAINT	H.M.	PAINT	02.00		10/A10.1	11/A10.1	12/A10.1	PANIC HARDWARE PUSH BAR
D4	3' - 0"	7' - 0"	0' - 1 3/4"	A	ALUM.	ANOD.	ALUM.	ANOD.	03.00		1/A10.1	2/A10.1	3/A10.1	PANIC HARDWARE PUSH BAR
D5	3' - 0"	7' - 0"	0' - 1 3/4"	A	ALUM.	ANOD.	ALUM.	ANOD.	03.00		1/A10.1	2/A10.1	3/A10.1	PANIC HARDWARE PUSH BAR
D6	3' - 0"	7' - 0"	0' - 1 3/4"	A	ALUM.	ANOD.	ALUM.	ANOD.	03.00		1/A10.1	2/A10.1	3/A10.1	PANIC HARDWARE PUSH BAR

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ph: 915.534.8082
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SCHEDULES

COMMISSION No. 23-010

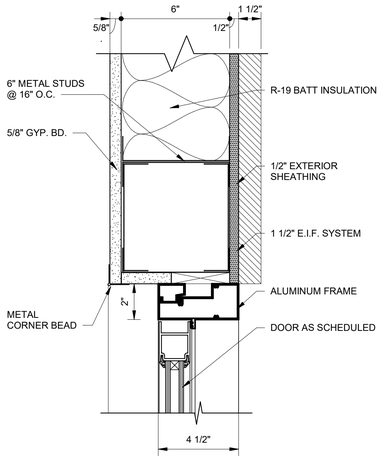
DATE: 08-14-2023

REVISIONS

#	Description	Date

SHEET: **A9.1**

OF 12



1 ALUM. DOOR HEAD

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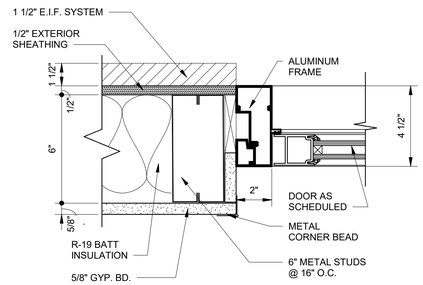

2 ALUM. DOOR JAMB

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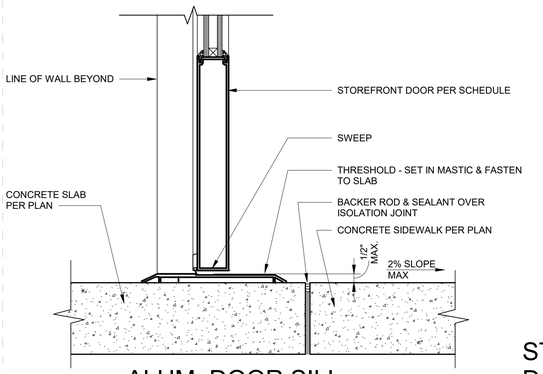

3 ALUM. DOOR SILL

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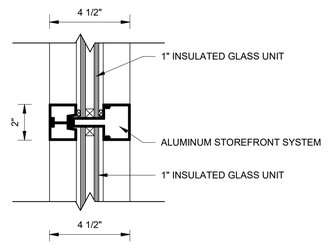
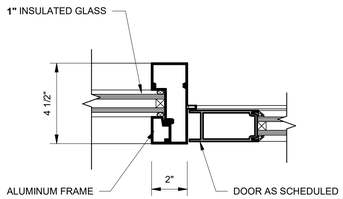


4 STOREFRONT MULLION (TYP.)

SCALE: 3" = 1'-0"



5 STOREFRONT DOOR/WINDOW JAMB

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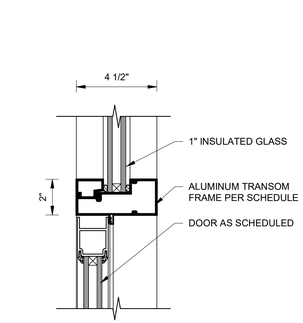

6 STOREFRONT DOOR TRANSOM

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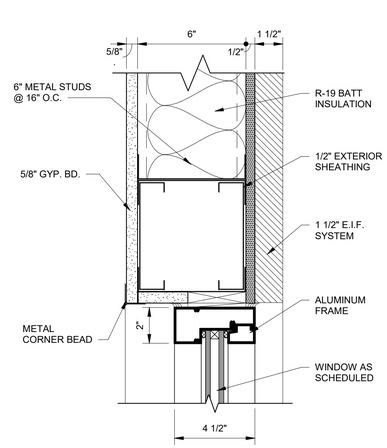
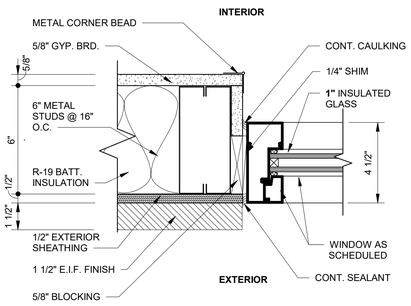


7 ALUM. WINDOW HEAD

SCALE: 3" = 1'-0"



8 ALUM. WINDOW JAMB

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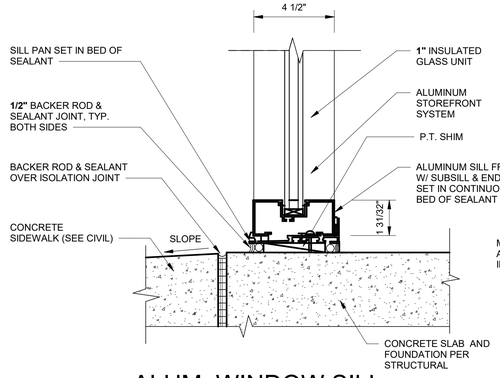

9 ALUM. WINDOW SILL

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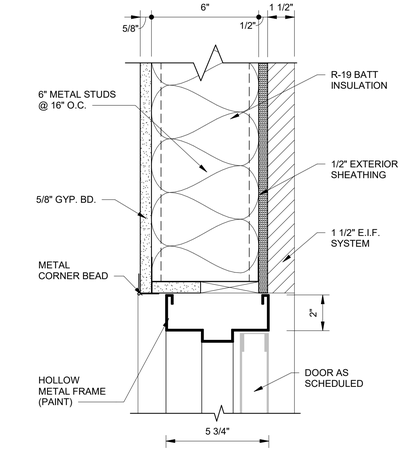
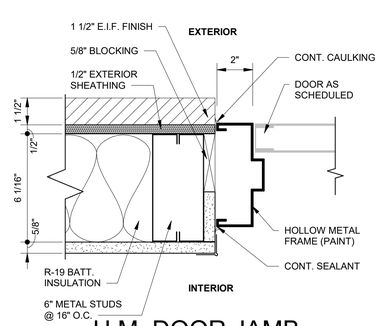


10 H.M. DOOR HEAD

SCALE: 3" = 1'-0"



11 H.M. DOOR JAMB

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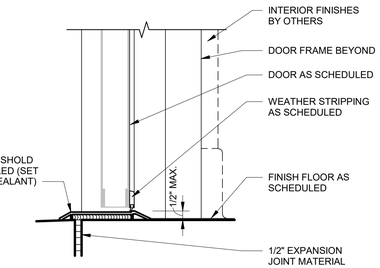

12 H.M. DOOR SILL

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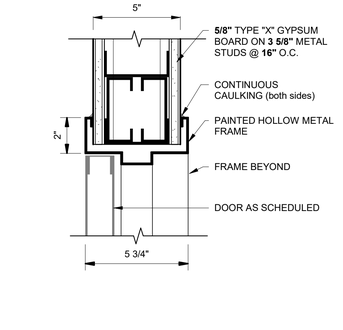

13 DOOR HEAD DETAIL

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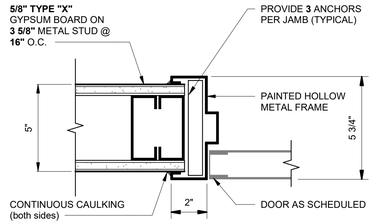

14 JAMB DOOR DETAIL

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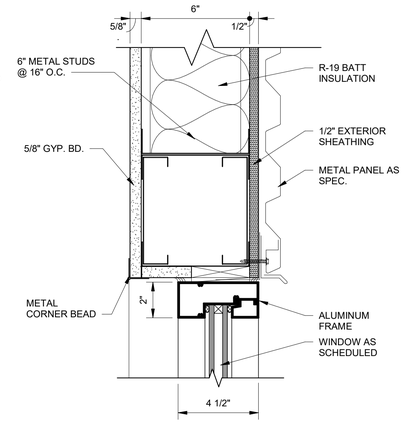

15 ALUM. WINDOW HEAD/MTL PANEL

SCALE: 3" = 1'-0"

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AT

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1810 Wyoming ave
el paso, tx 79903
ph: 915.534.8082
fax: 915.534.8083

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DETAILS

COMMISSION No. 23-010

DATE: 08-14-2023

REVISIONS

#	Description	Date

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OF 12

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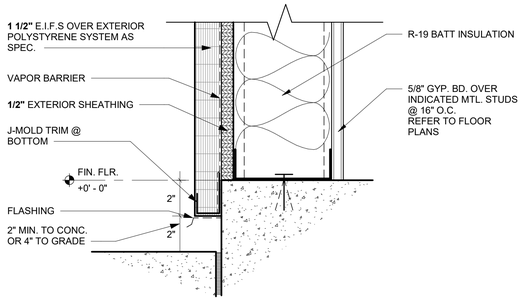

1 E.I.F.S. TERMINATION

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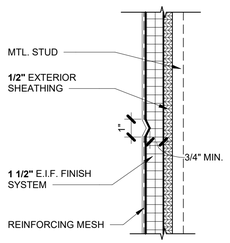

2 E.I.F.S REVEAL DETAIL

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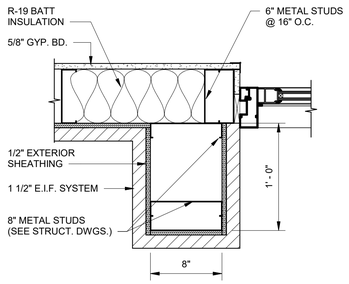
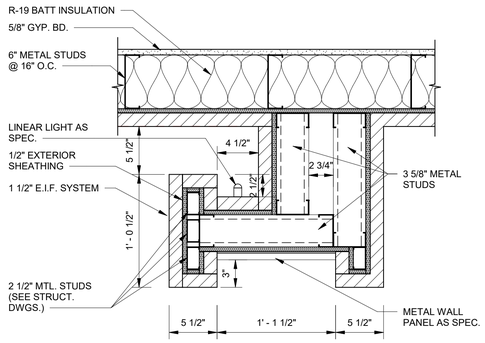


3 PILASTER DETAIL

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



4 PILASTER PLAN DETAIL

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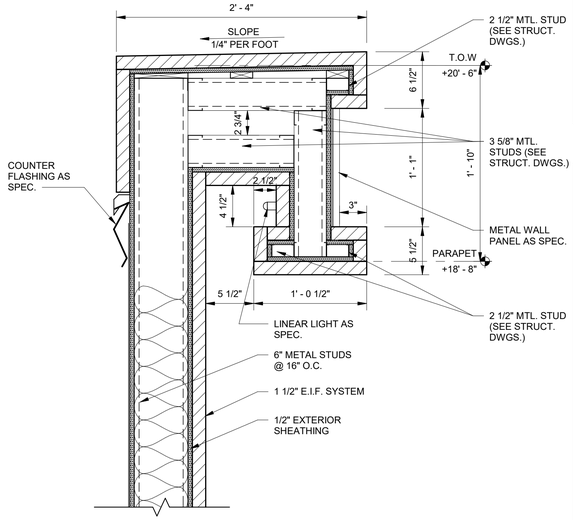

5 PILASTER SECTION DETAIL

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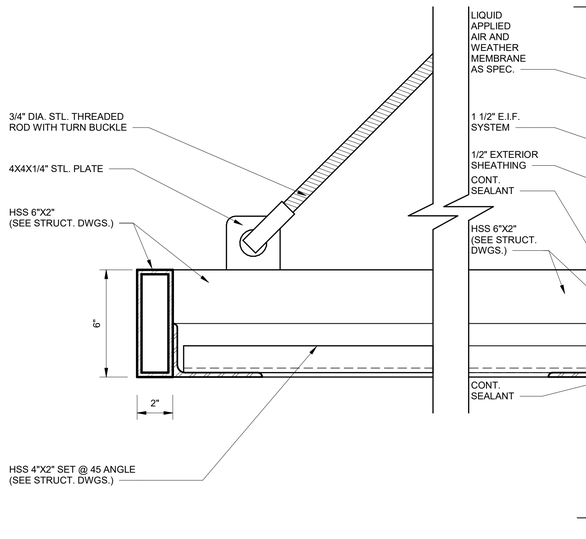

6 CANOPY DETAIL

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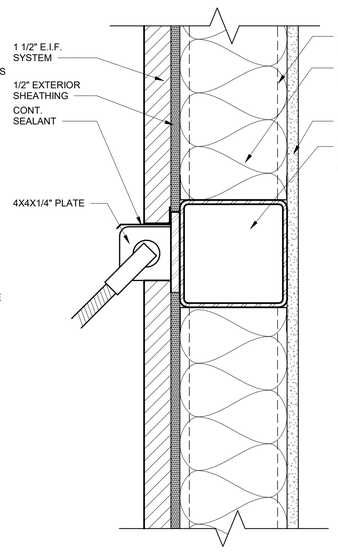
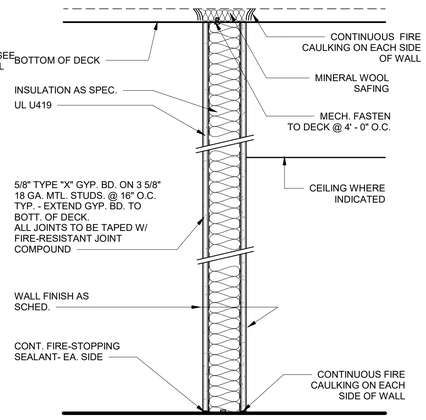
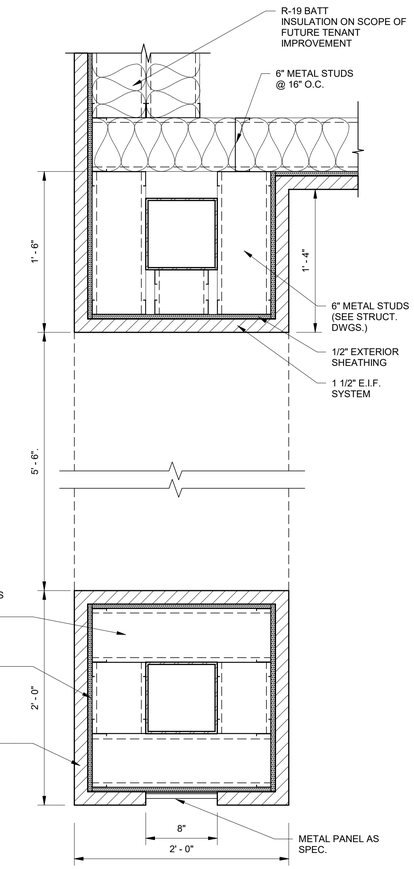




7 TYP. 1 HR. PARTITION

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

UL U419



10 WALL DETAIL

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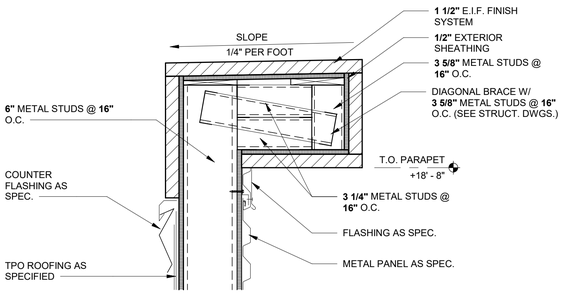

8 PARAPET METAL PANEL DETAIL

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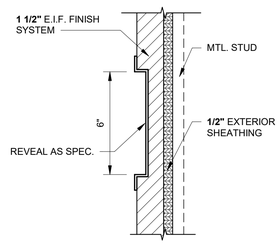

9 REVEAL DETAIL

SCALE: 3" = 1'-0"

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DETAILS

COMMISSION No. 23-010

DATE: 08-14-2023

REVISIONS

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OF 12

STRUCTURAL NOTES

GENERAL

GN-1 ALL DETAILS ARE TYPICAL AND SHALL APPLY TO SIMILAR CONDITIONS UNLESS NOTED OTHERWISE.

GN-2 THE CONTRACTOR SHALL COORDINATE THE SIZE AND LOCATION OF ALL HOLES AND SLEEVES THROUGH WALLS AND SLABS WITH ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND CIVIL DRAWINGS. ALL PLUMBING AND MECHANICAL PENETRATIONS THROUGH WALLS AND SLABS SHALL BE PROPERLY SLEEVED. PENETRATING FOOTINGS, BEAMS, JOISTS, OR COLUMNS IS PROHIBITED. PLUMBING AND CONDUITS SHALL NOT BE INSTALLED BELOW FOOTINGS WITHOUT PRIOR WRITTEN APPROVAL FROM STUBBS ENGINEERING, INC.

GN-3 THE STRUCTURE AS SHOWN IN THESE DRAWINGS IS STABLE UNDER THE FINAL CONDITION. THE STRUCTURE IS DESIGNED FOR THE IN-SERVICE LOADS ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE STRUCTURAL STABILITY DURING CONSTRUCTION. SEQUENCE OF CONSTRUCTION, SHORING, AND MEANS AND METHODS SHALL BE DETERMINED BY THE CONTRACTOR.

GN-4 NON-LOAD BEARING ELEMENTS SHALL BE CONNECTED TO THE STRUCTURE BY METHODS THAT ALLOW VERTICAL DEFLECTION OF THE STRUCTURE. ALLOWABLE DEFLECTIONS OF THE STRUCTURE SHALL BE THE MAXIMUM OF EITHER A HALF INCH OR THE STRUCTURAL SPAN DIVIDED BY 360.

GN-5 NOTCHING, CUTTING OR MODIFYING STRUCTURAL ELEMENTS IN THE FIELD IS PROHIBITED.

GN-6 THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

GN-7 THE ATTACHMENT OF ROOF TOP EQUIPMENT TO THE STRUCTURE SHALL BE INSTALLED PER DESIGNS PROVIDED BY THE MANUFACTURE. THE MANUFACTURE SHALL CERTIFY THAT THE ATTACHMENTS HAVE BEEN DESIGN TO WITHSTAND LOADS BASED ON THE DESIGN CRITERIA LISTED BELOW.

DESIGN CRITERIA

DC-1 THE STRUCTURAL DESIGN WAS COMPLETED IN ACCORDANCE WITH THE FOLLOWING CODES:
- IBC 2015
- ASCE 7-10
- ACI 318-14
- ACI 530-13/ASCE 5-11/TMS 402-13
- AISC 360 – MANUAL OF STEEL CONSTRUCTION 14TH EDITION
- AISC 341-10 – SEISMIC DESIGN MANUAL
- AND NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, 2012 EDITION
- AWS D1.1 AMERICAN WELDING SOCIETY – STRUCTURAL WELDING CODE STEEL 2006 EDITION
- AWS D1.4 AMERICAN WELDING SOCIETY – STRUCTURAL WELDING CODE – REINFORCING STEEL 2011 EDITION

DC-2 DEAD LOAD ARE CALCULATED IN ACCORDANCE WITH CHAPTER 3 OF THE ASCE 7-10.

DC-3 LIVE LOADS ARE CALCULATED IN ACCORDANCE WITH CHAPTER 4 OF THE ASCE 7-10 AS FOLLOWS:

OCCUPANCY OR USE	UNIFORM (psf.)	CONCENTRATED (lbs.)
ROOF	20	300
AWNINGS AND CANOPIES	20	N/A

DC-4 WIND PRESSURES SHALL BE CALCULATED IN ACCORDANCE WITH CHAPTER 26-31 OF THE ASCE 7-10 AS FOLLOWS:

RISK CATEGORY	II
WIND VELOCITY	115 MPH
DIRECTIONAL FACTORS (Kd)	0.85 WFRS 0.85 COMPONENTS
TOPOGRAPHIC FACTOR (Kzt)	1.00
WIND EXPOSURE	B
INTERNAL PRESSURE COEFFICIENT	±0.18

DC-5 SNOW LOADS SHALL BE CALCULATED IN ACCORDANCE WITH CHAPTER 7 OF THE ASCE 7-10 AS FOLLOWS:

RISK CATEGORY	II
GROUND SNOW (pg)	5 PSF
EXPOSURE FACTOR (Ce)	0.90
THERMAL FACTOR (Ct)	1.0
IMPORTANCE FACTOR	1.00

DC-6 SEISMIC LOADS SHALL BE CALCULATED IN ACCORDANCE WITH CHAPTER 11 AND 12 OF THE ASCE 7-10 AS FOLLOWS:

RISK CATEGORY	II
MAPPED MCE	Ss=0.33 S1=0.103
SPECTRAL RESPONSE COEFFICIENT	SDs=0.264 SD1=0.117
SITE CLASSIFICATION	C
IMPORTANCE FACTOR	1.00
SEISMIC DESIGN CATEGORY	B
ANALYSIS PROCEDURE	EQUIVALENT FORCE METHOD
MAINFORCE RESISTING SYSTEM	A-18
RESPONSE MODIFICATION FACTOR (R)	4
SYSTEM OVERSTRETCH FACTOR (Ω_o)	2.00
DEFLECTION AMPLIFICATION FACTOR (C_d)	3.5
SEISMIC RESPONSE COEFFICIENT (C_s)	0.072

SHOP DRAWINGS

SD-1 THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT/ENGINEER PRIOR TO FABRICATION AS REQUIRED BY THE SPECIFICATIONS AND SHALL INCLUDE AT A MINIMUM THE FOLLOWING SUBMITTALS:
- STRUCTURAL FILL AND EARTHWORK
- STRUCTURAL STEEL
- REINFORCING STEEL
- CONCRETE MIX DESIGNS
- METAL DECK
- STEEL JOISTS
- WELDING PROCEDURES AND WELDING CERTIFICATIONS
- LIGHT GAGE FRAMING PRODUCT DATA
- PRODUCT DATA FOR POWER ACTUATED FASTENERS
- PRODUCT DATA FOR CONCRETE EXPANSION ANCHORS

SD-2 REVIEWS BY THE ARCHITECT/ENGINEER SHALL BE FOR GENERAL CONFORMANCE TO THE PLANS AND SPECIFICATIONS ONLY. MODIFICATIONS, COMMENTS AND INFORMATION PROVIDED BY THE ARCHITECT/ENGINEER ON THE SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR FROM THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS.

SD-3 THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING DIMENSIONS AT THE JOB SITE AND COORDINATING THEM WITH THE PLANS AND SPECIFICATIONS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT / ENGINEER.

SD-4 THE FABRICATION AND CONSTRUCTION PROCESS, MEANS AND METHODS OF CONSTRUCTION, AND COORDINATING ALL TRADES FOR PERFORMING THE WORK IN A SAFE AND SATISFACTORY METHOD SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

SD-5 REPRODUCTION OF CONSTRUCTION DOCUMENTS AS PART OF THE SHOP DRAWINGS IS PROHIBITED. THE SHOP DRAWINGS SHALL BE INDEPENDENTLY PRODUCED DRAWINGS BASED ON THE CONSTRUCTION DOCUMENTS. USE OF ELECTRONIC FILES PRODUCED BY STUBBS ENGINEERING, INC. TO GENERATE SHOP DRAWINGS IS PROHIBITED WITHOUT PRIOR WRITTEN APPROVAL FROM STUBBS ENGINEERING, INC. IF ELECTRONIC DRAWINGS PRODUCED BY THE STUBBS ENGINEERING, INC. ARE USED IN THE PRODUCTION OF THE SHOP DRAWINGS, ANY COMPANY LOGOS, TITLE BLOCKS AND SEALS SHALL BE REMOVED FROM THE SUBMITTAL.

SD-6 THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELAYS DUE TO REJECTION OF INADEQUATE OR INCORRECT SHOP DRAWINGS.

SD-7 SHOP DRAWINGS SUBMITTED WITHOUT PRIOR REVIEW BY THE GENERAL CONTRACTOR SHALL NOT BE REVIEWED BY THE ENGINEER.

SD-8 REQUESTS FOR SUBSTITUTION SHALL BE CLEARLY SHOWN ON SHOP DRAWINGS. SUBSTITUTIONS SHALL NOT BE IMPLEMENTED UNLESS SPECIFICALLY APPROVED IN WRITING BY THE ARCHITECT/ENGINEER.

FOUNDATION

FND-1 THE CONTRACTOR SHALL REVIEW AND BECOME FAMILIAR WITH THE SOIL, WATER AND SITE CONDITIONS DESCRIBED IN THE SOILS REPORT PRIOR TO BIDDING THE PROJECT. SOILS BORINGS AND CONDITIONS DESCRIBED IN THE SOILS REPORT ARE FOR GENERAL INFORMATION PURPOSES ONLY. THE ACTUAL CONDITIONS MAY VARY AT THE SITE.

FND-2 ALL EARTHWORK AND SITE PREPARATION SHALL BE IN COMPLIANCE WITH THE GEOTECHNICAL REPORT PREPARED BY LOI ENGINEERS, DATED APRIL 4, 2022 . THE GEOTECHNICAL ENGINEER'S PROJECT NUMBER IS 222-1-513. ADDITIONAL INFORMATION IS CONTAINED IN THE GEOTECHNICAL REPORT.

FND-3 THE SITE SHALL BE PREPARED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT TO PROVIDE A MINIMUM ALLOWABLE BEARING PRESSURE OF 2,400 PSF.

FND-4 REMOVE ALL AND DISPOSE EXISTING HVAC, CONCRETE SLABS, FOUNDATIONS FROM THE BUILDING PAD PRIOR TO EXCAVATION.

FND-5 THE SITE SHALL BE OVEREXCAVATED TO ALLOW FOR A MINIMUM OF 3'-4" FEET OF STRUCTURAL SELECT FILL BELOW ALL FOOTINGS AND A MINIMUM OF 1 FOOT OF STRUCTURAL SELECT FILL BELOW ALL SLABS ON GRADE. OVEREXCAVATION SHALL EXTEND A MINIMUM OF 1 FOOT BEYOND THE EXTENT OF THE BUILDING PAD. REFERENCE DETAIL 4 / S1.1 FOR TYPICAL SUBGRADE PREPARATION.

FND-6 NATIVE SOILS BELOW STRUCTURAL SELECT FILL SHALL BE SCARIFIED TO A DEPTH OF 8 INCHES. THE NATIVE SOILS SHALL BE COMPACTED TO A MINIMUM DRY DENSITY OF 95% PER THE MODIFIED PROCTOR (ASTM D1557) AT A MOISTURE CONTENT OF +/- 3% OPTIMUM. WEAK OR COMPRESSIBLE NATIVE SOILS IDENTIFIED DURING EARTHWORK SHALL BE REMOVED AND REPLACED WITH STRUCTURAL SELECT FILL PER THE REQUIREMENTS FOR STRUCTURAL FILL.

FOUNDATION

FND-7 STRUCTURAL SELECT FILL SHALL BE FREE OF ROCKS, ROOTS, VEGETABLE MATTER, CLAY CLUMPS OR ROCKS GREATER THAN 4 INCHES IN ANY DIMENSION. STRUCTURAL SELECT FILL SHALL MEET THE FOLLOWING REQUIREMENTS:
- NO EXPANSIVE MATERIAL
- MAXIMUM LIQUID LIMIT (ASTM D4318): 40
- PLASTICITY INDEX (ASTM D4318): 15
- UNIFIED SOILS CLASSIFICATION SYSTEM: CH, CH-GH, CH-GC, GH, GP, GP-GH, SW-SH, SW-SC
- GRADATION (ASTM D2487)

FND-8 PLACE ALL STRUCTURAL SELECT FILL IN 8 INCH MAXIMUM LOOSE LIFTS. MOISTEN TO A MOISTURE CONTENT OF +/- 3% OPTIMUM MOISTURE CONTENT AND COMPACT TO A MINIMUM DENSITY OF 95% MODIFIED PROCTOR (ASTM D1557) MAXIMUM DRY DENSITY.

FND-9 CAPILLARY FILL SHALL HAVE THE FOLLOWING PROPERTIES
GRADATION (ASTM D422)

SIEVE SIZE	PERCENT PASSING
3–INCH	100%
1½–INCH	90–100%
NO. 4	25–55%
NO. 40	15–50%
NO. 200	15–45%

FND-10 ALL EARTHWORK SHALL BE INSPECTED BY A LICENSED GEOTECHNICAL ENGINEER TO ENSURE ALLOWABLE BEARING PRESSURE IS MET, THERE IS A LOW SETTLEMENT POTENTIAL AND THE ABSENCE OF EXPANSIVE MATERIAL. TESTING SHALL BE PERFORMED AT THE FOLLOWING MINIMUM RATES. THE ENGINEER OF RECORD MAY DETERMINE MORE STRINGENT TESTING IF REQUIRED.:
- ONE MOISTURE-DENSITY CURVE, IN ACCORDANCE WITH ASTM D1557, FOR EACH TYPE OF STRUCTURAL SELECT FILL OR EACH SOURCE OF STRUCTURAL FILL USED FOR THE PROJECT.
- ONE FIELD DENSITY TEST, IN ACCORDANCE WITH ASTM D1556, OR D6938, PER EACH 2,000 SQUARE FEET OF COMPACTED NATIVE SUBGRADE PER LIFT PRIOR TO PLACING STRUCTURAL SELECT FILL OR FLOOR SLAB. PROVIDE A MINIMUM OF THREE TESTS.
- EACH HORIZONTAL LIFT OF STRUCTURAL SELECT FILL SHALL BE TESTED WITH ONE FIELD DENSITY TEST, IN ACCORDANCE WITH ASTM D1556 OR D6938, PER EACH 2,000 SQUARE FEET AND 100 FEET OF CONTINUOUS FOOTING WITH A MINIMUM OF THREE TESTS.

FND-11 VAPOR BARRIERS SHALL BE PLACED DIRECTLY BELOW ALL SLABS ON GRADE BETWEEN THE SLAB AND THE SUBGRADE. THE VAPOR BARRIER SHALL HAVE A MINIMUM THICKNESS OF 10 MILS AND SHALL MEET THE REQUIREMENTS OF ASTM E1745 WITH A WATER VAPOR PERMEANCE LESS THAN 0.030 PERMS. CONTRACTOR SHALL LAP AND SEAL ALL EDGES. PUNCTURES AND PENETRATIONS SHALL BE SEALED AND REPAIR PER THE MANUFACTURER'S RECOMMENDATIONS.

FND-12 CONSTRUCTION JOINTS IN FOOTINGS AND STEM WALL CAN BE PLACED AT CONTRACTOR'S OPTION. FOOTINGS AND STEM WALL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAIL 3 / S4.0 .

FND-13 SAW CUT CONTROL JOINTS AS INDICATED ON PLANS WITHIN 12 HOURS OF PLACING CONCRETE.

CONCRETE

CNC-1 ALL CONCRETE SHALL BE PROPORTIONED, CONSTRUCTED AND CONFORM TO THE SPECIFICATION OF ACI 301-16. CONCRETE DESIGN SHALL CONFORM TO ACI 318-14.

CNC-2 PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE I OR II. CONCRETE IN CONTACT WITH SOIL SHALL BE TYPE II CEMENT.

CNC-3 FLY ASH SHALL NOT BE USED IN ARCHITECTURALLY EXPOSED CONCRETE, TILTWALLS OR SLABS ON GRADE. FLY ASH IS ALLOWED IN ALL OTHER NON-ARCHITECTURALLY EXPOSED CONCRETE, UP TO A MAXIMUM OF 25% OF THE CEMENT CONTENT. THE MIX DESIGN SHALL INDICATE THAT THE FLY ASH SHALL NOT ADVERSELY EFFECT THE PERFORMANCE OF OTHER PRODUCTS AND MATERIALS THAT WILL BE IN CONTACT WIT THE CONCRETE.

CNC-4 CONCRETE SHALL BE PROPORTIONED TO THE FOLLOWING REQUIREMENTS:

LOCATION	f'c AT 28 DAYS	MAX SIZE AGGREGATE	SLUMP	AIR CONTENT	CONCRETE TYPE	MAXIMUM WATER TO CEMENT RATIO
FOOTING AND SLAB ON GRADE	4,000 PSI	3/4 – INCH	4 – 6 INCH	0–5%	NORMAL WEIGHT	0.55

CONCRETE SHALL BE PROPORTIONED TO EXCEED 75% OF THE 28-DAY STRENGTH IN 7 DAYS.

CNC-5 CONCRETE REINFORCING STEEL AND EMBEDS SHALL HAVE THE FOLLOWING PROPERTIES:

TYPE	DESIGNATION ON PLANS	ASTM	YIELD STRENGTH	NOTES
REBAR	#	A615	60 KSI	NOT WELDABLE
WELDED WIRE REINF.	WWF	A185	60 KSI	FLAT SHEETS ONLY
DEFORMED BAR ANCHORS	DBA	A496	60 KSI	WELDABLE
HEADED ANCHOR STUDS	HAS	A108, Gr.	70 KSI	

CNC-6 UNLESS OTHERWISE SHOWN THE CLEAR DISTANCE FOR THE FACE OF CONCRETE FORMS TO THE REINFORCING STEEL SHALL BE:

CONDITION	CLEAR DISTANCE	NOTES
CONCRETE CAST AGAINST EARTH OR WATER	3 – INCH	EXCLUDES SLABS ON GRADE
CONCRETE CAST TO FORMS EXPOSED TO EARTH, WATER OR WEATHER	2 – INCH	NO. 6 BAR AND LARGER
	1 1/2 – INCH	NO. 5 BAR AND SMALLER
CONCRETE CAST TO FORMS NOT EXPOSED TO EARTH, WATER OR WEATHER	1 – INCH	SLABS AND JOISTS
	1 1/2 – INCH	BEAMS, COLUMNS, & WALLS
SLABS ON GRADE	2 – INCH	FROM BOTTOM SURFACE
	1 1/2 – INCH	FROM TROWLED SURFACE
	3/4 – INCH	FROM SCREED SURFACE

CNC-7 REINFORCING DETAILING AND PLACEMENT SHALL BE IN COMPLIANCE WITH ACI 315-08.

CNC-8 ALL REBAR SHALL BE SPLICED IN ACCORDANCE WITH DETAIL 2 / S1.1 AND STANDARD HOOK SHALL BE PROVIDED PER DETAIL 1 / S1.1 . WESH REINFORCING SHALL BE SPLICED IN ACCORDANCE WITH DETAIL 3 / S1.1 .

CNC-9 ALL REBAR AND REINFORCING WESH SHALL BE CHAIRED TO PROVIDE REQUIRED COVER AND SUPPORT THE REINFORCING ADEQUATELY TO PREVENT ACCIDENTAL DISPLACEMENT. CHAIRS FOR SLABS ON GRADE SHALL BE SPECIFICALLY DESIGNED FOR USE ON SOIL. CHAIRS FOR SLABS ON METAL DECK SHALL BE SPECIFICALLY DESIGNED FOR USE ON METAL DECK.

CNC-10 SIZE AND LOCATION OF EQUIPMENT SUPPORTS AND EMBEDS SHALL BE COORDINATED WITH THE EQUIPMENT SUPPLIER AND SHALL BE IN ACCORDANCE WITH APPROVED SHOP DRAWINGS.

CNC-11 ALL CONCRETE SHALL BE CONSOLIDATED BY VIBRATORY MEANS. CONSOLIDATIONS SHALL BE OBSERVED BY INSPECTION AGENCY.

CNC-12 CONCRETE DIMENSIONS SHOWN ON DRAWINGS ARE ACTUAL DIMENSIONS NOT NOMINAL DIMENSIONS.

CNC-13 ALL CONTINUOUS REINFORCING IN FOOTINGS AND WALLS SHALL EITHER BE CONTINUOUS AROUND CORNERS OR HAVE BENT CORNER BARS OF THE SAME SIZE AND SPACING AS THE HORIZONTAL BARS.

CNC-14 FORM TIES SHALL BE EITHER OF THE THREADED OR SNAP OFF TYPE. NO EXPOSED METAL SHALL BE ALLOWED WITHIN ONE INCH OF THE SURFACE. ALL RECESSES SHALL BE POINTED WITH MORTAR.

CNC-15 ALL DOWELS, EMBEDS AND REINFORCING BARS SHALL BE SECURELY TIED PRIOR TO PLACING CONCRETE. INSTALLATION OF ITEMS INTO WET CONCRETE WILL NOT BE ALLOWED.

CNC-16 ALL EXPOSED CONCRETE CORNERS SHALL HAVE A 3/4" CHAMFER.

CNC-17 CONCRETE SHALL NOT BE DROPPED VERTICALLY MORE THAN 5 FEET WITHOUT THE USE OF A FREWIE.

STRUCTURAL STEEL

SS-1 THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH "AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS" AND "STEEL CONSTRUCTION MANUAL" 13TH EDITION.

SS-2 CONNECTIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICESECTION 3.1.2, OPTION (2). THE STEEL DETAILER SHALL SELECT AND COMPLETE CONNECTIONS BASED ON INFORMATION IN THE CONSTRUCTION DOCUMENTS. THE FABRICATOR IS NOT REQUIRED TO HIRE A PROFESSIONAL ENGINEER FOR CONNECTION DESIGN.

SS-3 ALL STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:

	ASTM	YIELD STRENGTH
WIDE FLANGE AND WT SECTIONS	A992	50 KSI
CHANNELS AND ANGLES	A36	36 KSI
STRUCTURAL PLATE AND BARS	A36*	36 KSI
SQUARE & RECTANGULAR TUBE	A500 GR B	46 KSI.

* UNLESS NOTED OTHERWISE.

SS-4 ALL HIGH STRENGTH BOLTS, WASHERS AND NUTS SHALL MEET THE "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS" AND THE FOLLOWINGS:

AS SHOWN ON PLANS	TENSION	NOTES
A325N	SNUG TIGHT	THREADS INCLUDED IN PLANE
A325X	SNUG TIGHT	THREADS INCLUDED IN PLANE
ANCHOR BOLT	SNUG TIGHT	ASTM F1554 GR 36

ASTM F1852, TENSION CONTROL BOLTS CAN BE SUBSTITUTED FOR A325 BOLTS AT CONTRACTOR'S DIRECTION

SS-5 ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AMERICAN WELDING SOCIETY CODE AWS D1.1, LATEST EDITION.

SS-6 WELDING SHALL BE PERFORMED WITH E70XX LOW HYDROGEN ELECTRODS USING EITHER SMAW, FCAW, OR GMAW PROCESSES IN ACCORDANCE WITH AWS D1.1.

SS-7 ALL GROUT BELOW BASE PLATES SHALL BE NON-SHRINK, NON-METALIC WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5,000 PSI.

SS-8 ANCHOR BOLTS, ANCHOR BOLT HOLES AND PLATE WASHERS SHALL BE PROVIDED IN ACCORDANCE WITH TABLE 14-2 OF THE AISC MANUAL OF STEEL CONSTRUCTION.

SS-9 ALL WELDS NOT SPECIFIED SHALL BE A MINIMUM 5/4" FILLET WELDS OR MEET THE SPECIFICATIONS OF TABLE J2.4 OF THE AISC MANUAL OF STEEL CONSTRUCTION FOR MINIMUM SIZE FILLET WELDS, WHICHEVER IS GREATER.

SS-10 WELD ACCESS HOLE CONFIGURATIONS FOR MOMENT CONNECTIONS SHALL COMPLY WITH TABLE 1-1 AND TABLE 1-2 OF AISC SDSWC DESIGN MANUAL.

SS-11 ALL PERIMETER ANGLES AND POUR STOPS SHALL BE SPLICED PER DETAIL 6 / S5.1 .

SS-12 ALL STEEL PERMANENTLY EXPOSED TO WEATHER SHALL BE GALVANIZED PER ASTM A123 TO G-60 UNLESS NOTED OTHERWISE.

ARCHITECTURAL EXPOSED STRUCTURAL STEEL (AESS)

AESS-1 ALL STRUCTURAL STEEL NOTED AS "ARCHITECTURAL EXPOSED" AND STEEL EXPOSED TO VIEW SHALL MEET THE REQUIREMENTS OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES DATED JUNE 15, 2016, SECTION 10.

AESS-2 ARCHITECTURAL EXPOSED STRUCTURAL STEEL SHALL BE FABRICATED TO MEET THE REQUIREMENTS OF TABLE 10.1 OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AS FOLLOWS:
- ELEMENTS DESIGNATED AS AESS AND GREATER THAN 20FT FROM VIEW: AESS2
- ELEMENTS DESIGNATED AS AESS AND LESSTHAN 20FT FROM VIEW: AESS3
- ELEMENTS SPECIFICALLY NOTED AS "SHOWCASE ELEMENTS". AESS4

AESS-3 ALL WELDED CONNECTION, BOTH SHOP AND FIELD WELDS, SHALL BE GROUND SMOOTH AND FLUSH. SPLATTER SHALL BE REMOVED.

AESS-4 BOLT HEADS ORIENTATION SHALL BE CONSISTENT AMONG THE CONNECTIONS OR AS INDICATED ON THE DRAWINGS.

AESS-5 ALL AESS SHALL HAVE A SURFACE PREPARATION OF SSPC-SP 6. ACSS SHALL BE PREPARED IN ACCORDANCE WITH 10.4.11 OF THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.

AESS-6 THE SHOP APPLIED PRIMER SHALL BE COMPATIBLE WITH THE FINISH PAINT SYSTEM. THE GENERAL CONTRACTOR SHALL SUBMIT THE PRIMER SPECIFICATION WITH THE FINISH PAINT SPECIFICATIONS AS A SINGLE SUBMITTAL FOR APPROVAL BY THE ARCHITECT.

AESS-7 THE STEEL SHALL BE ERECTED WITH MEANS BY WHICH TO AVOID MARKRING STEEL. NYLON SLINGS OR CHAIN AND WIRE ROPE SLINGS WITH SOFTENERS SHALL BE USED. CARE SHALL BE TAKEN TO MINIMIZE DAMAGE TO ANY SHOP PAINT OR COATING. STEEL SHALL BE STORED ON DUNAGE TO AVOID DECOLORING, MARKETING OR WARPING.

AESS-8 DAMAGE TO THE PRIMER DURING SHIPPING AND ERECTION SHALL BE TOUCHED UP WITH THE SAME PRIMER AS USED IN THE SHOP OR AN APPROVED SUBSTITUTE.

AESS-9 THE SHOP DRAWINGS SHALL INDICATE WHICH MEMBERS ARE AESS. WELD SYMBOLS FOR ACSS MEMBERS SHALL IDENTIFY GRINDING, FINISH AND PROFILE OF WELDS. SHOP DRAWINGS SHALL ALSO INDICATE THE ORIENTATION OF BOLT HEADS FOR BOTH FIELD AND SHOP CONNECTIONS.

STEEL JOISTS

SJ-1 STEEL JOISTS, AND BRIDGING SHALL BE FABRICATED AND ERECTED BY A MEMBER OF SJI IN ACCORDANCE WITH SJI'S "STANDARD SPECIFICATION FOR OPEN WEB STEEL JOISTS AND JOIST GIRDERS", 2005 EDITION.

SJ-2 WHERE BEARING LENGTHS ARE NOT SHOWN ON THE DRAWINGS, THE FOLLOWING MINIMUMS SHALL BE PROVIDED:

JOIST DESIGNATION	MATERIAL	BEARING LENGTH
K SERIES	STEEL	2 1/2"
	CONCRETE OR MASONRY	4" – ON BEARING PLATE

SJ-3 WHERE END ANCHORAGE FOR JOISTS ARE NOT SHOWN ON THE DRAWINGS, THE FOLLOWING MINIMUMS SHALL BE PROVIDED:

JOIST DESIGNATION	CONDITION	BEARING LENGTH
K SERIES	TYPICAL BEARING	2–1/8"x" FILLET WELDS
	OSHA CONNEX Ø COLUMN	2–1/2" DIA 307

SJ-4 BRIDGING FOR STEEL JOISTS SHALL BE AS SHOWN ON THE DRAWINGS AND MEET THE MINIMUM REQUIREMENTS OF THE SJI SPECIFICATIONS.

SJ-5 EXTEND BOTTOM CHORD OF JOIST AT COLUMNS TO PROVIDE TEMPORARY STRUCTURAL FRAME STABILITY DURING ERECTION PER OSHA STANDARDS.

SJ-6 HANGERS AND OTHER SUPPORTS FOR MECHANICAL, ELECTRICAL OR PLUMBING SHALL NOT EXCEED 200 LBS WITHOUT PRIOR WRITTEN APPROVAL FROM ENGINEER. HANGER LOCATIONS SHALL BE AT INTERSECTION OF WEB AND CHORD MEMBER OR THE JOIST SHALL BE REINFORCED PER DETAIL 2 / S5.1 .

SJ-7 PROVIDED BOTTOM CHORD JOIST EXTENSION WHERE REQUIRED BY THE ARCHITECTURAL DRAWINGS.

SJ-8 JOISTS SHALL BE DESIGN FOR THE NET UPLIFT (AS SHOWN IN 2 / S1.2 , 2 / S1.3 , 2 / S1.4 & 2 / S1.5). INCREASE JOIST AND JOIST GIRDER SIZES AS REQUIRED. PROVIDE UPLIFT BRIDGING PER SJI REQUIREMENTS.

SJ-9 ALL JOISTS SHALL MEET A DEFLECTION CRITERIA OF L/360 FOR LIVE LOADS AND L/240 FOR TOTAL LOADS.

SJ-10 JOIST CAMBER SHALL BE SPECIFIED PER SJI.

METAL DECK

MD-1 METAL DECK SHALL BE DETAILED AND FABRICATED BY A MEMBER OF SDI AND IN ACCORDANCE WITH SDI SPECIFICATIONS.

MD-2 ALL METAL DECK SHALL BE CONTINUOUS OVER A MINIMUM OF THREE SPANS UNLESS APPROVED BY ENGINEER OR SPECIFICALLY SHOWN ON THE DRAWINGS.

MD-3 METAL DECK AS DESIGNATED ON THE PLANS SHALL MEET THE FOLLOWING PROPERTIES:

DESIGNATION ON PLANS	THICKNESS IN. & FINISH	Ix IN	FY KSI	ATTACHMENTS
1-1/2" 22ga B DECK	0.0295 PAINTED	0.192	33	NO. 12 TEK SCREWS @ 36/5 TO SUPPORTS PERPENDICULAR TO RIBS, NO. 12 TEK SCREWS @ 12" O.C. TO SUPPORTS PARALLEL TO RIBS & NO. 10 TEK SCREWS @ 12" O.C. AT SIDELAPS

MD-4 ALTERNATE FASTENERS TYPES MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER.

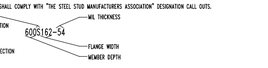
MD-5 PROVIDE A MINIMUM OF 1-1/2" BEARING FOR ALL STEEL DECK.

MD-6 DECK SHALL BE SPLICED WITH A MINIMUM OF 2" LAP. SPLICES SHALL BE LOCATED AT SUPPORTS.

LIGHT GAGE FRAMING (18ga AND HEAVIER)

LG-1 STRUCTURAL LIGHT GAGE FRAMING SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE AISI "SPECIFICATIONS FOR COLD-FORMED STEEL STRUCTURAL MEMBERS", 7TH EDITION

LG-2 LIGHT GAGE FRAMING MEMBERS SHALL COMPLY WITH "THE STEEL STUD MANUFACTURERS ASSOCIATION" DESIGNATION CALL OUTS.



LG-3 EXTERIOR AND LOAD BEARING LIGHT GAGE STUD WALLS SHALL HAVE BRIDGING AT A MAXIMUM SPACING OF 4'-0" O.C. BRIDGING SHALL BE PER MANUFACTURER'S RECOMMENDATIONS & MEET THE REQUIREMENTS OF DETAIL 9 / S5.0 .

LG-4 SECURE ALL STUDS TO TOP AND BOTTOM TRACES WITH A MINIMUM OF 1-NO. 8 SCREW EACH SIDE.

LG-5 ALL WELDING OF MATERIAL LESS THAN 3/16" IN THICKNESS SHALL BE MADE IN ACCORDANCE WITH THE AWS D1.3. WELDERS AND WELDING PROCEDURES SHALL BE SHALL BE QUALIFIED BY AWS D1.3.

LG-6 SPLICING STRUCTURAL LIGHT GAGE MEMBERS SHALL NOT BE ALLOWED.

LG-7 LIGHT GAGE STRAPS SHALL MATCH THE WIDTH AND THICKNESS SHOWN ON PLANS. STRAPS SHALL HAVE A MINIMUM YELD STRENGTH (Fy) OF 50 KSI. STRAPS SHALL BE GALVANIZED WITH A MINIMUM G60 FINISH.

LG-8 NON LOAD BEARING EXTERIOR STUDS SHALL BE ATTACHED TO PERIMETER ANGLE WITH A SLIDE CLIP PER DETAIL 10 / S5.0 .

LG-9 ALL LIGHT GAGE STUDS AND TRACES SHALL HAVE A G60 FINISH

WOOD SHEATHING

WS-1 ROOF SHEATHING SHALL BE 15/32" APA RATED SHEATHING WITH @12 SCREWS @ 6" O.C. AT PANEL EDGES AND 12" O.C. IN THE FIELD OF THE PANEL.

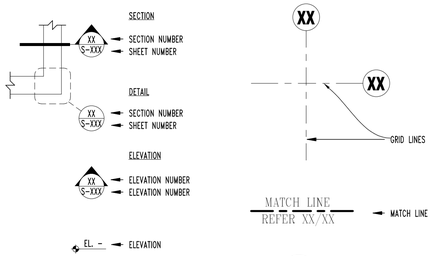
WS-2 WALL SHEATHING FOR STRUCTURAL WALLS SHALL BE 15/32"APA RATED SHEATHING WITH @12 SCREWS @ 4" O.C. AT PANEL EDGES AND 12" O.C. IN THE FIELD OF THE PANEL.

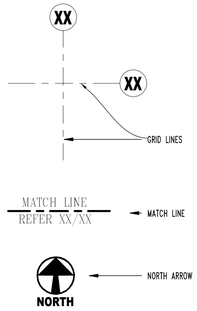
WS-3 WOOD SHEATHING SHALL BE INSTALLED WITH THE LONG DIMENSION PERPENDICULAR TO THE SUPPORTS. SHEATHING SHALL HAVE A MINIMUM OF TWO SPANS.

ABBREVIATIONS

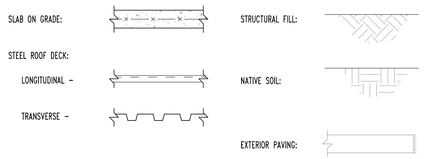
&	– AND
@	– AT
°	– DEGREE
Ø	– DIAMETER
ALT.	– ALTERNATE
ALUM.	– ALUMINUM
ANSI.	– AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX.	– APPROXIMATE
ARCH.	– ARCHITECTURAL
ASTM.	– AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	– AMERICAN WELDING SOCIETY
B/T	– BOTTOM OF FOOTING
BLDG.	– BUILDING
BOT.	– BOTTOM
BRG.	– BEARING
CANT.	– CANTILEVER
CCA	– CONCRETE EXPANSION ANCHOR
C/P	– CAST IN PLACE
CJ	– CONTROL JOINT
℄	– CENTERLINE
CLR.	– CLEARANCE
CMU	– CONCRETE MASONRY UNIT
COL.	– COLUMN
CONC.	– CONCRETE
CONST.	– CONSTRUCTION
CONT.	– CONTINUOUS
CONX.	– CONNECTION
COORD.	– COORDINATE
DBL.	– DOUBLE
DEMO.	– DEMOLISH, DEMOLITION
DET.

MISCELLANEOUS SYMBOLS

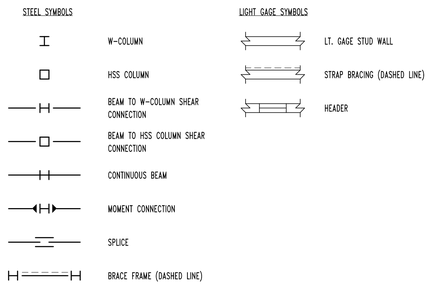




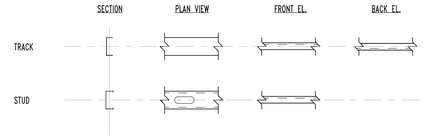
DETAIL LEGEND



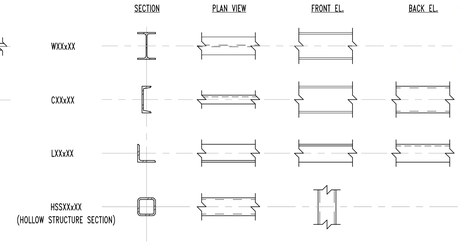
PLAN SYMBOLS



DETAIL LIGHT GAGE MEMBERS



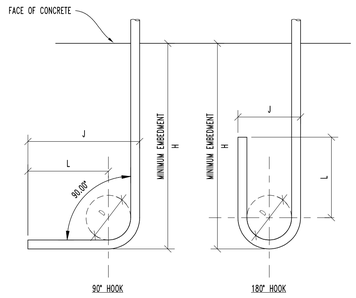
DETAIL STEEL MEMBERS



REBAR STANDARD HOOKS

REBAR SIZE	D (IN.)	90° HOOK				180° HOOK			
		J (IN.)	L (IN.)	H (IN.)		J (IN.)	L (IN.)	H (IN.)	
#3	2¼	6	4½	f'c' = 3000PSI	9	3	1½	f'c' = 3000PSI	6
				f'c' = 4000PSI	7			f'c' = 4000PSI	6
#4	3	8	6	f'c' = 3000PSI	11	4	2	f'c' = 3000PSI	7
				f'c' = 4000PSI	10			f'c' = 4000PSI	7
#5	3¾	10	7½	f'c' = 3000PSI	14	5	2½	f'c' = 3000PSI	7
				f'c' = 4000PSI	12			f'c' = 4000PSI	7
#6	4½	12	9	f'c' = 3000PSI	17	6	3	f'c' = 3000PSI	8
				f'c' = 4000PSI	15			f'c' = 4000PSI	8
#7	5¼	14	10½	f'c' = 3000PSI	19	7	3½	f'c' = 3000PSI	9
				f'c' = 4000PSI	17			f'c' = 4000PSI	9
#8	6	16	12	f'c' = 3000PSI	22	8	4	f'c' = 3000PSI	10
				f'c' = 4000PSI	19			f'c' = 4000PSI	10
#9	9½	19	13½	f'c' = 3000PSI	25	11¼	4½	f'c' = 3000PSI	12
				f'c' = 4000PSI	22			f'c' = 4000PSI	12
#10	10¾	22	15¼	f'c' = 3000PSI	28	13¼	5¼	f'c' = 3000PSI	14
				f'c' = 4000PSI	24			f'c' = 4000PSI	14

NOTES:
1. THE HOOK DIMENSIONS GIVEN SHALL BE USED FOR BEAMS, JOISTS, COLUMNS, WALLS, SLABS AND FOOTINGS.
2. HOOKS SHALL BE ROTATED TO FIT IN SPACE AND MAINTAIN ADEQUATE COVER. NO NOT CUT HOOK WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.



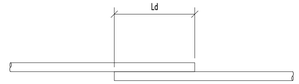
1 REBAR STANDARD HOOKS

SCALE: N.T.S.

CONCRETE REINFORCING SPLICE SCHEDULE

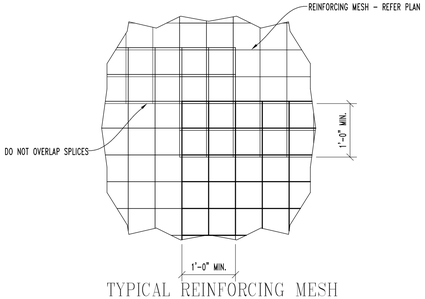
f'c (PSI)	SPLICE TYPE	BAR SIZE							
		#3	#4	#5	#6	#7	#8	#9	#10
3,000	TOP BARS	28	37	47	56	81	93	105	118
	OTHER BARS	22	29	36	43	63	72	81	91
4,000	TOP BARS	24	32	40	48	70	80	91	102
	OTHER BARS	19	25	31	37	54	62	70	79
5,000	TOP BARS	22	29	36	43	63	72	81	91
	OTHER BARS	17	22	28	33	49	55	63	70
6,000	TOP BARS	20	26	33	40	58	66	74	83
	OTHER BARS	15	20	25	31	44	51	57	64

NOTES:
1. ALL REBAR SPLICE LENGTHS (Ld) PROVIDED ARE IN INCHES.
2. TOP BARS ARE DEFINED AS HORIZONTAL REINFORCEMENT PLACED SO THAT MORE THAN 12 INCHES OF CONCRETE IS CAST IN THE MEMBER BELOW THE BAR.
3. THE SPLICE LENGTHS GIVEN SHALL BE USED FOR BEAMS, JOISTS, COLUMNS WALLS, SLABS AND FOOTINGS.
4. WHEN THE CLEAR SPACING BETWEEN BARS IS LESS THAN 2 BAR DIAMETERS AND/OR THE CLEAR COVER IS LESS THAN 1 BAR DIAMETER, MULTIPLY THE SPLICE LENGTH IN THE TABLE BY 1.50.
5. WHEN SPLICING BARS OF DIFFERENT SIZE, USE THE SPLICE LENGTH OF THE LARGER BAR.



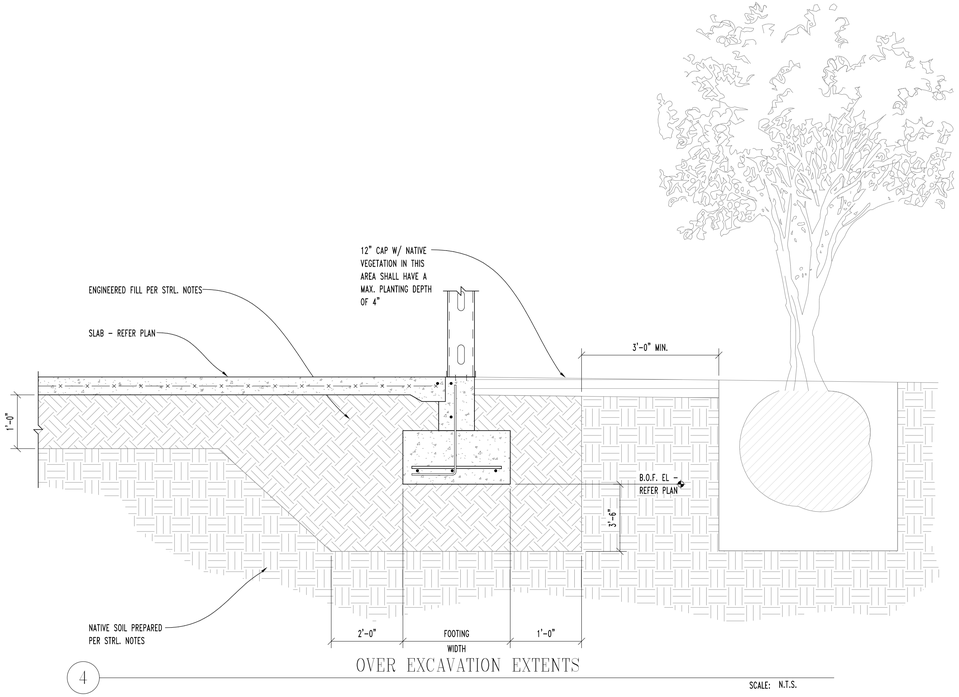
2 CONCRETE REINFORCING SPLICE SCHEDULE

SCALE: N.T.S.



3 TYPICAL REINFORCING MESH SPLICE

SCALE: 3/4" = 1'-0"



4 OVER EXCAVATION EXTENTS

SCALE: N.T.S.

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STRUCTURAL DETAILS

COMMISSION No. 23-010

DATE: 08/14/2023

REVISIONS

#	Description	Date

SHEET: **S1.1**

OF

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SEI JOB NO.:M35-006

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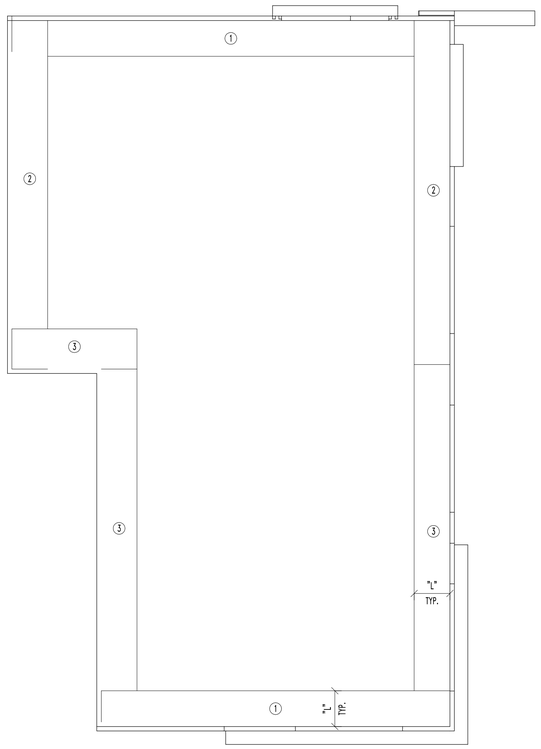
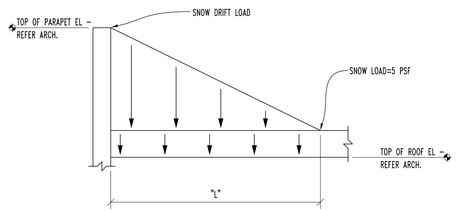


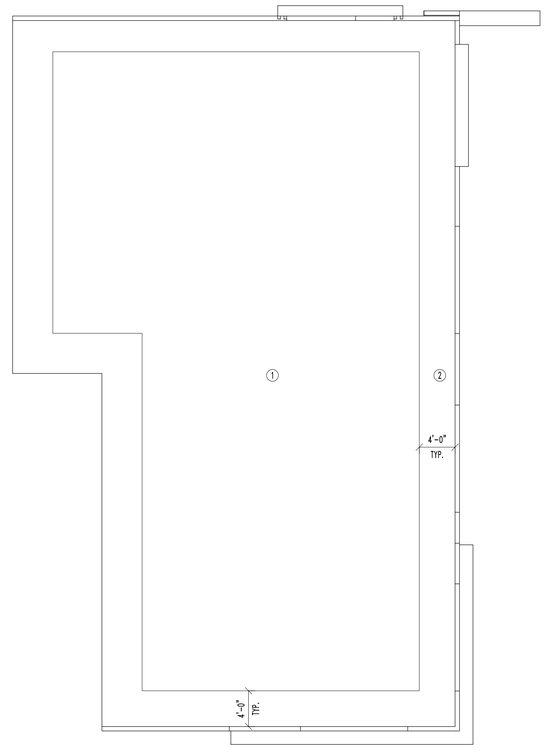
ZONE	SNOW DRIFT LOAD	HORIZONTAL DIMENSION OF DRIFT (L)
1	23.6 PSF	6'-6"
2	17.8 PSF	4'-11"
3	15.3 PSF	4'-3"

NOTE: LOADS SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY JOIST & DECK HAVE BEEN DESIGNED FOR THE SNOW DRIFT LOADS SHOWN



1 SNOW DRIFT DIAGRAM – BLDG A

SCALE: N.T.S.



ZONE	NET ALLOWABLE UPLIFT PRESSURE
1	13.1 PSF
2	15.5 PSF

* WIND UPLIFT PRESSURES SHOWN ARE ACTUAL ALLOWABLE PRESSURES NEGLECTING ROOF DEAD LOAD. FOR A NET WIND UPLIFT PRESSURE UTILIZE A ROOF DEAD LOAD (DL) OF 15 PSF WITH A LOAD COMBINATION OF 0.6DL+WL.

2 WIND UPLIFT DIAGRAM – BLDG A

SCALE: N.T.S.

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92018
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PROFESSIONAL ENGINEER
8/14/23

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STRUCTURAL DIAGRAMS BLDG A

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SUITE 800
EL PASO, TX 79901
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REVISIONS

#	Description	Date

SHEET: S1.2 OF

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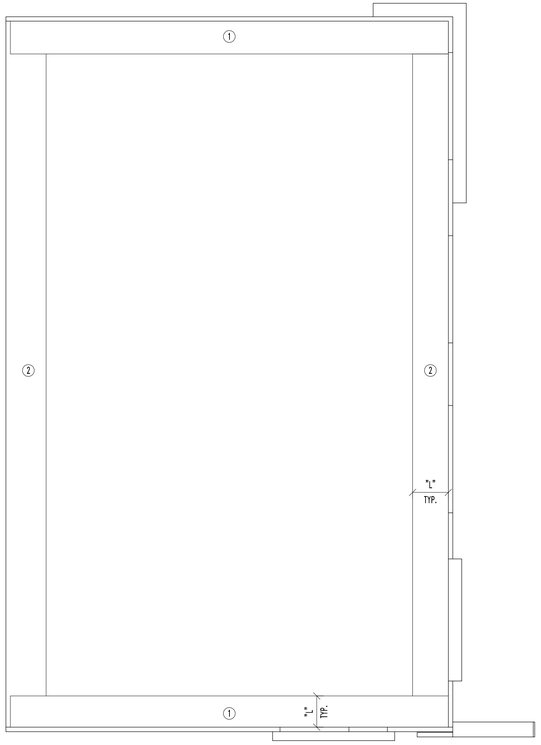
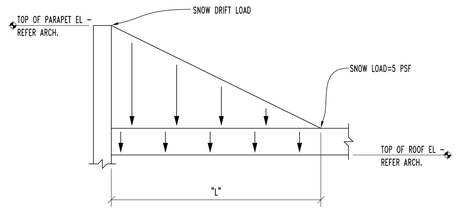


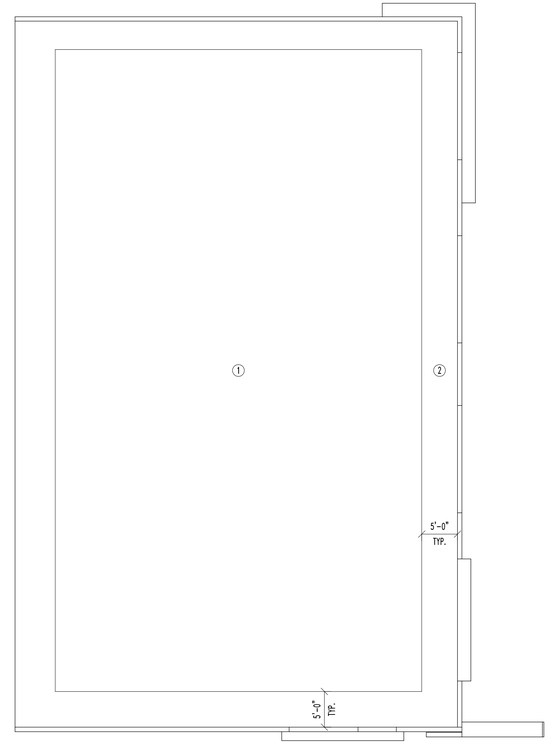
ZONE	SNOW DRIFT LOAD	HORIZONTAL DIMENSION OF DRIFT (L)
1	23.6 PSF	6'-6"
2	17.8 PSF	4'-11"

NOTE: LOADS SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY JOIST & DECK HAVE BEEN DESIGNED FOR THE SNOW DRIFT LOADS SHOWN



1 SNOW DRIFT DIAGRAM - BLDG B

SCALE: N.T.S.



ZONE	NET ALLOWABLE UPLIFT PRESSURE
1	13.1 PSF
2	15.5 PSF

* WIND UPLIFT PRESSURES SHOWN ARE ACTUAL ALLOWABLE PRESSURES NEGLECTING ROOF DEAD LOAD. FOR A NET WIND UPLIFT PRESSURE UTILIZE A ROOF DEAD LOAD (DL) OF 15 PSF WITH A LOAD COMBINATION OF 0.6DL+WL.

2 WIND UPLIFT DIAGRAM - BLDG B

SCALE: N.T.S.

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STRUCTURAL DIAGRAMS BLDG B

COMMISSION No. 23-010

DATE: 08/14/2023

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SHEET: **S1.3**

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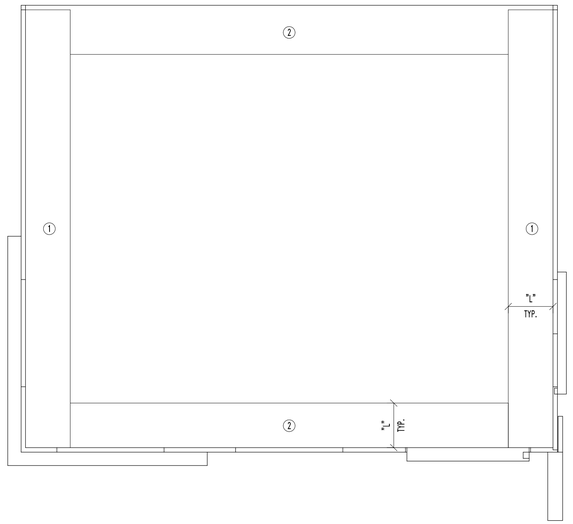
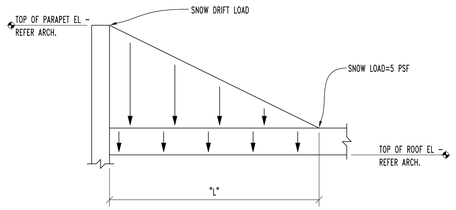


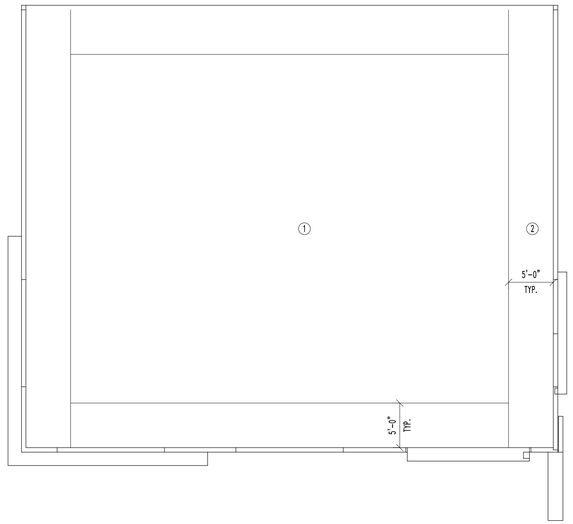
ZONE	SNOW DRIFT LOAD	HORIZONTAL DIMENSION OF DRIFT (L)
①	19.9 PSF	5'-6"
②	17.8 PSF	4'-11"

NOTE: LOADS SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY JOIST & DECK HAVE BEEN DESIGNED FOR THE SNOW DRIFT LOADS SHOWN



1 SNOW DRIFT DIAGRAM – BLDG C

SCALE: N.T.S.



ZONE	NET ALLOWABLE UPLIFT PRESSURE
①	13.1 PSF
②	15.5 PSF

* WIND UPLIFT PRESSURES SHOWN ARE ACTUAL ALLOWABLE PRESSURES NEGLECTING ROOF DEAD LOAD. FOR A NET WIND UPLIFT PRESSURE UTILIZE A ROOF DEAD LOAD (DL) OF 15 PSF WITH A LOAD COMBINATION OF 0.6DL+WL.

2 WIND UPLIFT DIAGRAM – BLDG C

SCALE: N.T.S.

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STRUCTURAL DIAGRAMS BLDG C

COMMISSION No. 23-010

DATE: 08/14/2023

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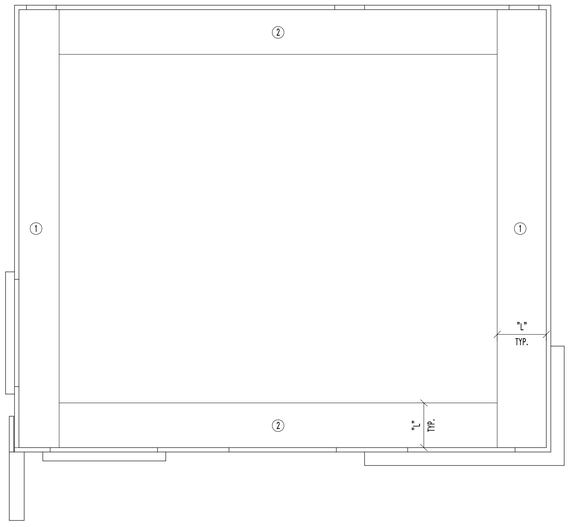
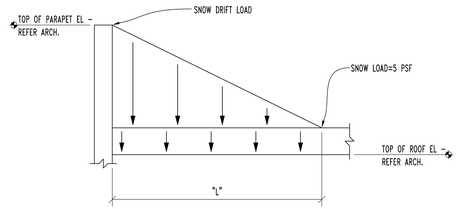


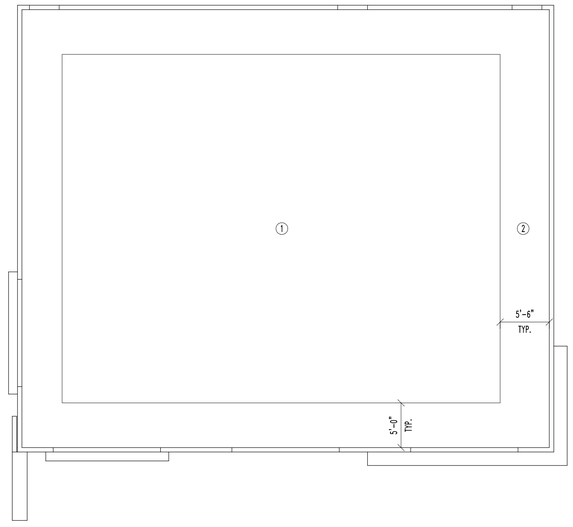
ZONE	SNOW DRIFT LOAD	HORIZONTAL DIMENSION OF DRIFT (L)
1	19.9 PSF	5'-6"
2	17.8 PSF	4'-11"

NOTE: LOADS SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY JOIST & DECK HAVE BEEN DESIGNED FOR THE SNOW DRIFT LOADS SHOWN



1 SNOW DRIFT DIAGRAM - BLDG D

SCALE: N.T.S.



ZONE	NET ALLOWABLE UPLIFT PRESSURE
1	13.1 PSF
2	15.5 PSF

* WIND UPLIFT PRESSURES SHOWN ARE ACTUAL ALLOWABLE PRESSURES NEGLECTING ROOF DEAD LOAD. FOR A NET WIND UPLIFT PRESSURE UTILIZE A ROOF DEAD LOAD (DL) OF 15 PSF WITH A LOAD COMBINATION OF 0.6DL+WL.

2 WIND UPLIFT DIAGRAM - BLDG D

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STRUCTURAL DIAGRAMS BLDG D

COMMISSION No. 23-010

DATE: 08/14/2023

REVISIONS

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SHEET: S1.5

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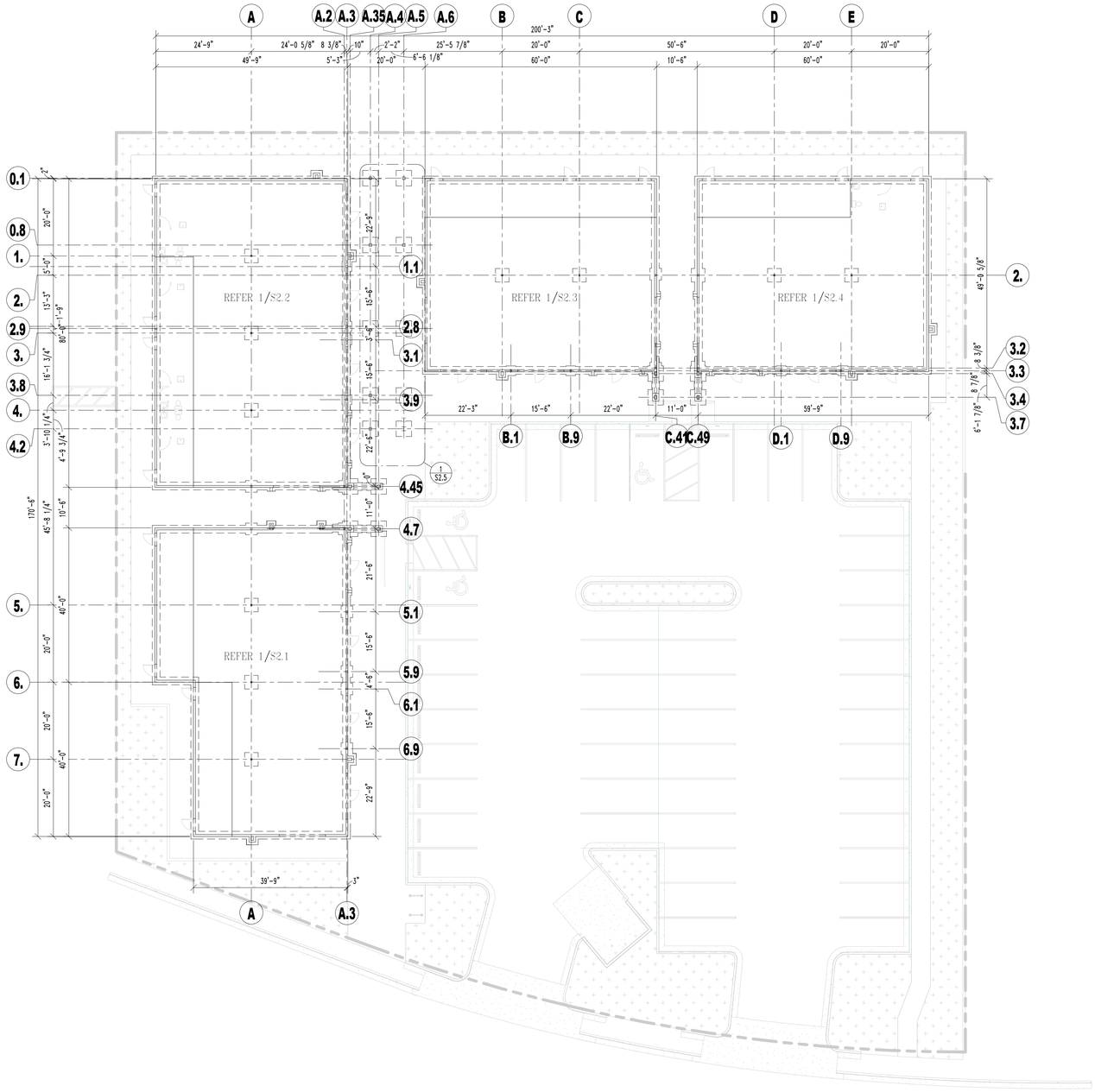

OVERALL FOUNDATION PLANS

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

NORTH

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OVERALL FOUNDATION PLANS

COMMISSION No. 23-010

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SHEET: S2.0

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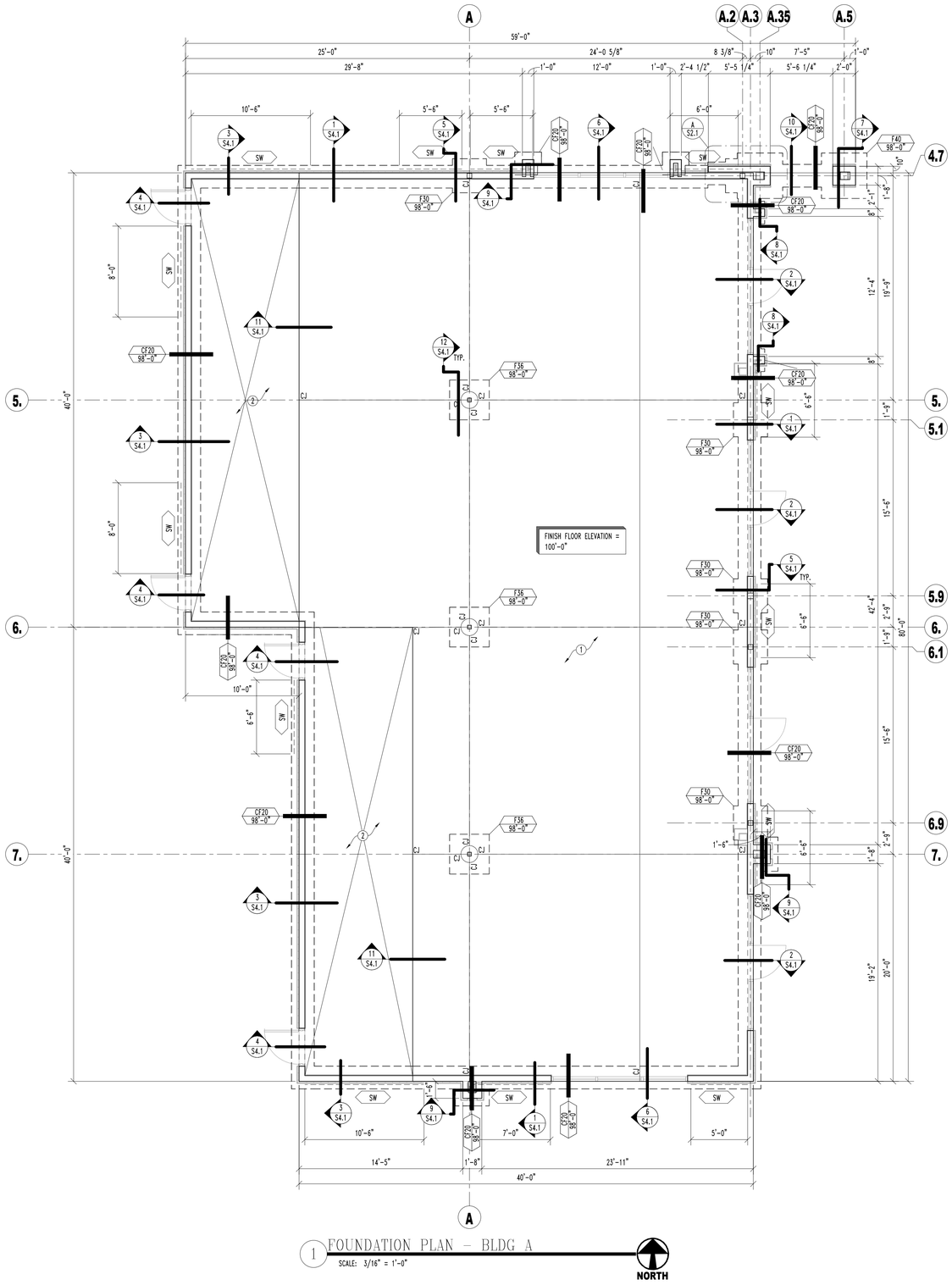
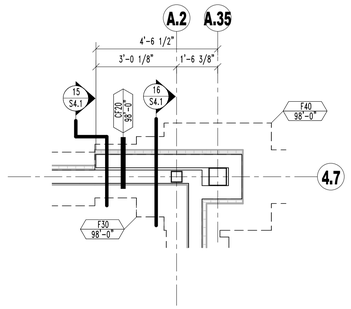


1 FOUNDATION PLAN – BLDG A

SCALE: 3/16" = 1'-0"



A FOUNDATION PLAN

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

PLAN NOTES

ALL DIMENSIONS ARE TO FACE OF CONCRETE UNLESS NOTED OTHERWISE.

CJ INDICATES A SLAB CONSTRUCTION JOINT. REFERENCE DETAIL 1 / S4.0 .

SW INDICATES STRAP WALL TYPE. REFERENCE STRAP WALL SCHEDULE.

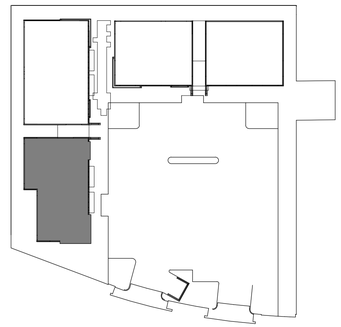
KEY NOTES

1. 4" CONCRETE SLAB WITH WWF6x6x–W1.4xW1.4 MESH IN CENTER OF SLAB OVER 10 MIL VAPOR BARRIER, AND PREPARED SUBGRADE. REFERENCE STRUCTURAL NOTES
2. SLAB LEAVE OUT

FOOTING SCHEDULE

XX — FOOTING MARK
XX'-XX" — BOTTOM OF FOOTING ELEVATION

FOOTING MARK	LONGITUDINAL WIDTH	TRANSVERSE WIDTH	DEPTH	LONGITUDINAL REINFORCEMENT	TRANSVERSE REINFORCEMENT
CF20	CONTINUOUS	2'-0"	1'-0"	2 – #5	#5 @ 12" O.C.
F26	2'-0"	2'-6"	1'-0"	3 – #4	3 – #4
F30	3'-0"	3'-0"	1'-0"	4 – #4	4 – #4
F36	3'-0"	3'-6"	1'-0"	5 – #4	5 – #4
F40	4'-0"	4'-0"	1'-0"	4 – #5 TOP & BOT.	4 – #5 TOP & BOT.



KEYPLAN

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EL PASO, TX 79901
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1810 Wyoming ave
el paso, tx 79903
phone: 915.534.8882
fax: 915.534.8883
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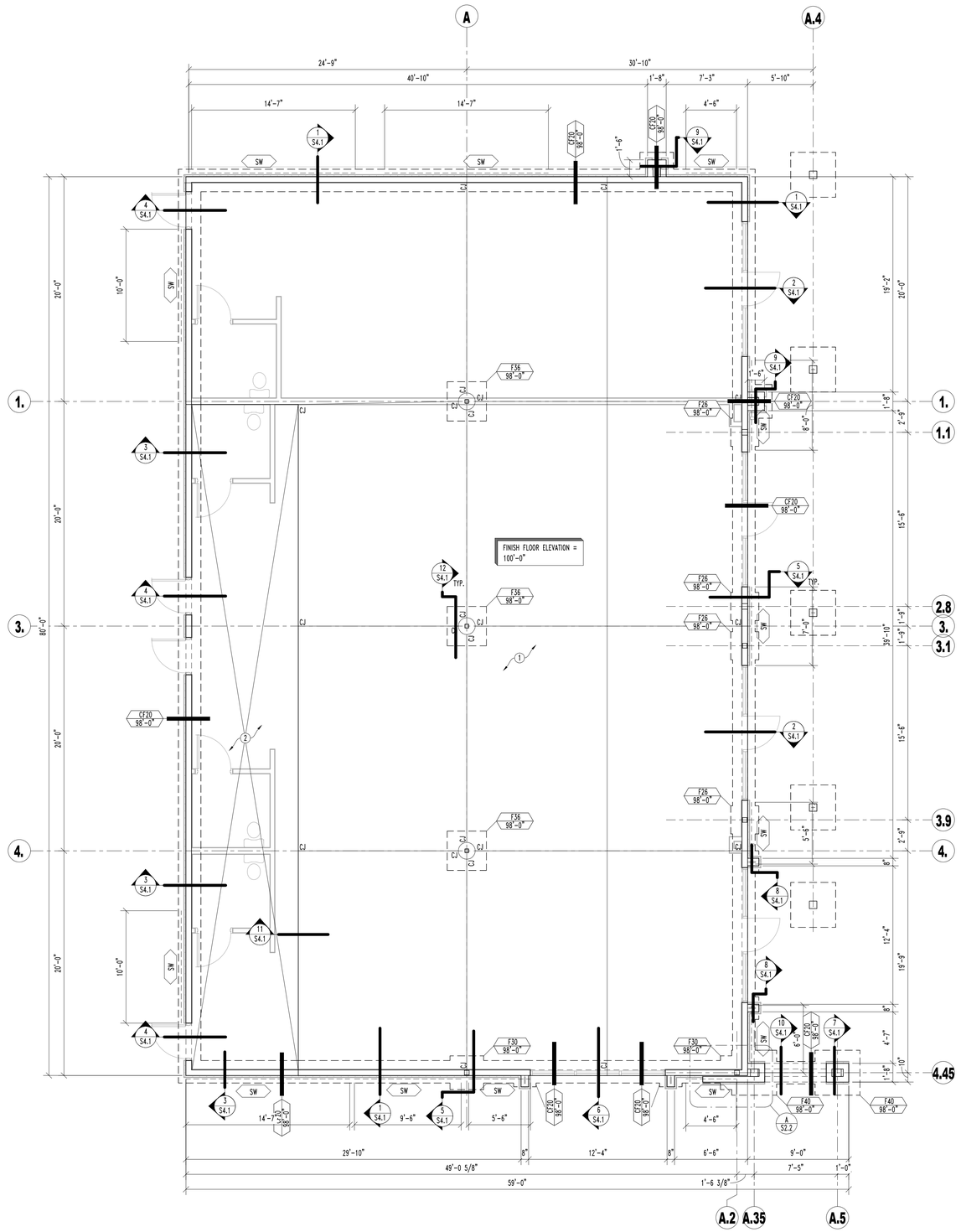
FOUNDATION PLAN
BLDG A

COMMISSION No. 23-010
DATE: 08/14/2023
REVISIONS
Description Date

SHEET: **S2.1**
OF



1 FOUNDATION PLAN – BLDG B

SCALE: 3/16" = 1'-0"

NORTH

PLAN NOTES

ALL DIMENSIONS ARE TO FACE OF CONCRETE UNLESS NOTED OTHERWISE.

CJ INDICATES A SLAB CONSTRUCTION JOINT. REFERENCE DETAIL 1 / S4.0 .

SW INDICATES STRAP WALL TYPE. REFERENCE STRAP WALL SCHEDULE.

KEY NOTES

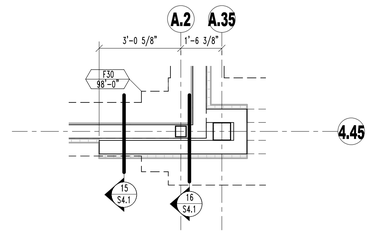
1. 4" CONCRETE SLAB WITH WWF6x6x–W1.4xW1.4 MESH IN CENTER OF SLAB OVER 10 MIL VAPOR BARRIER, AND PREPARED SUBGRADE. REFERENCE STRUCTURAL NOTES
2. SLAB LEAVE OUT

FOOTING SCHEDULE

XX — FOOTING MARK

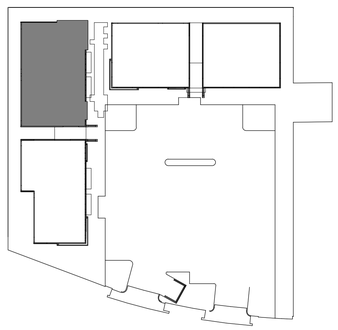
XX'-XX" — BOTTOM OF FOOTING ELEVATION

FOOTING MARK	LONGITUDINAL WIDTH	TRANSVERSE WIDTH	DEPTH	LONGITUDINAL REINFORCEMENT	TRANSVERSE REINFORCEMENT
CF20	CONTINUOUS	2'-0"	1'-0"	2 – #5	#5 @ 12" O.C.
F26	2'-0"	2'-6"	1'-0"	3 – #4	3 – #4
F30	3'-0"	3'-0"	1'-0"	4 – #4	4 – #4
F36	3'-0"	3'-6"	1'-0"	5 – #4	5 – #4
F40	4'-0"	4'-0"	1'-0"	4 – #5 TOP & BOT.	4 – #5 TOP & BOT.



A FOUNDATION PLAN

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



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92016
08/14/23

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FOUNDATION PLAN BLDG B

COMMISSION No. 23-010

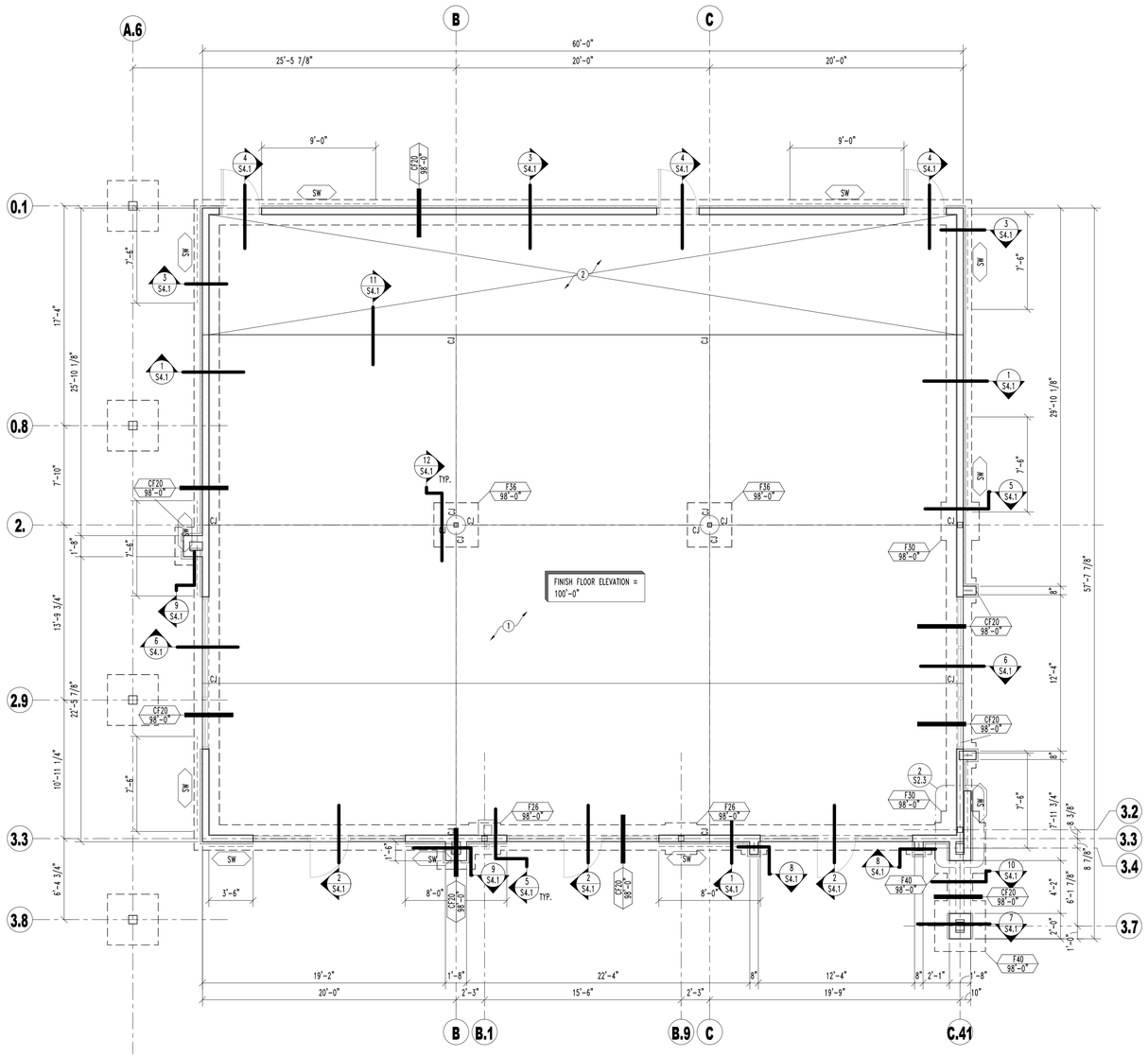
DATE: 08/14/2023

REVISIONS

#	Description	Date

SHEET: S2.2

OF



1 FOUNDATION PLAN – BLDG C
SCALE: 3/16" = 1'-0"

NORTH

PLAN NOTES

ALL DIMENSIONS ARE TO FACE OF CONCRETE UNLESS NOTED OTHERWISE.

CJ INDICATES A SLAB CONSTRUCTION JOINT. REFERENCE DETAIL 1 / S4.0 .

SW INDICATES STRAP WALL TYPE. REFERENCE STRAP WALL SCHEDULE.

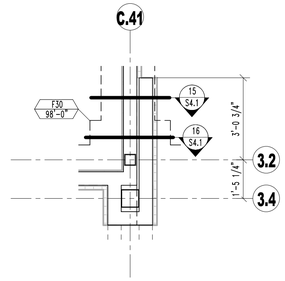
KEY NOTES

1. 4" CONCRETE SLAB WITH WWF6x6x–W1.4xW1.4 MESH IN CENTER OF SLAB OVER 10 MIL VAPOR BARRIER, AND PREPARED SUBGRADE. REFERENCE STRUCTURAL NOTES
2. SLAB LEAVE OUT

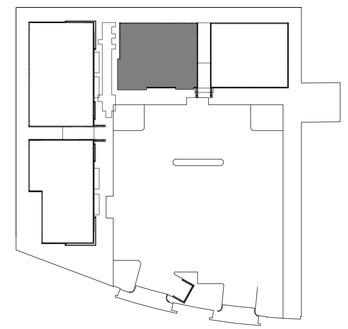
FOOTING SCHEDULE

XX — FOOTING MARK
XX'-XX" — BOTTOM OF FOOTING ELEVATION

FOOTING MARK	LONGITUDINAL WIDTH	TRANSVERSE WIDTH	DEPTH	LONGITUDINAL REINFORCEMENT	TRANSVERSE REINFORCEMENT
CF20	CONTINUOUS	2'-0"	1'-0"	2 - #5	#5 @ 12" O.C.
F26	2'-0"	2'-6"	1'-0"	3 - #4	3 - #4
F30	3'-0"	3'-0"	1'-0"	4 - #4	4 - #4
F36	3'-0"	3'-6"	1'-0"	5 - #4	5 - #4
F40	4'-0"	4'-0"	1'-0"	4 - #5 TOP & BOT.	4 - #5 TOP & BOT.



2 FOUNDATION PLAN
SCALE: 3/8" = 1'-0"



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FOUNDATION PLAN
BLDG C

COMMISSION No. 23-010
DATE: 08/14/2023
REVISIONS
Description Date

SHEET: **S2.3**
OF

PLAN NOTES

ALL DIMENSIONS ARE TO FACE OF CONCRETE UNLESS NOTED OTHERWISE.

CJ INDICATES A SLAB CONSTRUCTION JOINT. REFERENCE DETAIL 1 / S4.0 .

SW INDICATES STRAP WALL TYPE. REFERENCE STRAP WALL SCHEDULE.

KEY NOTES

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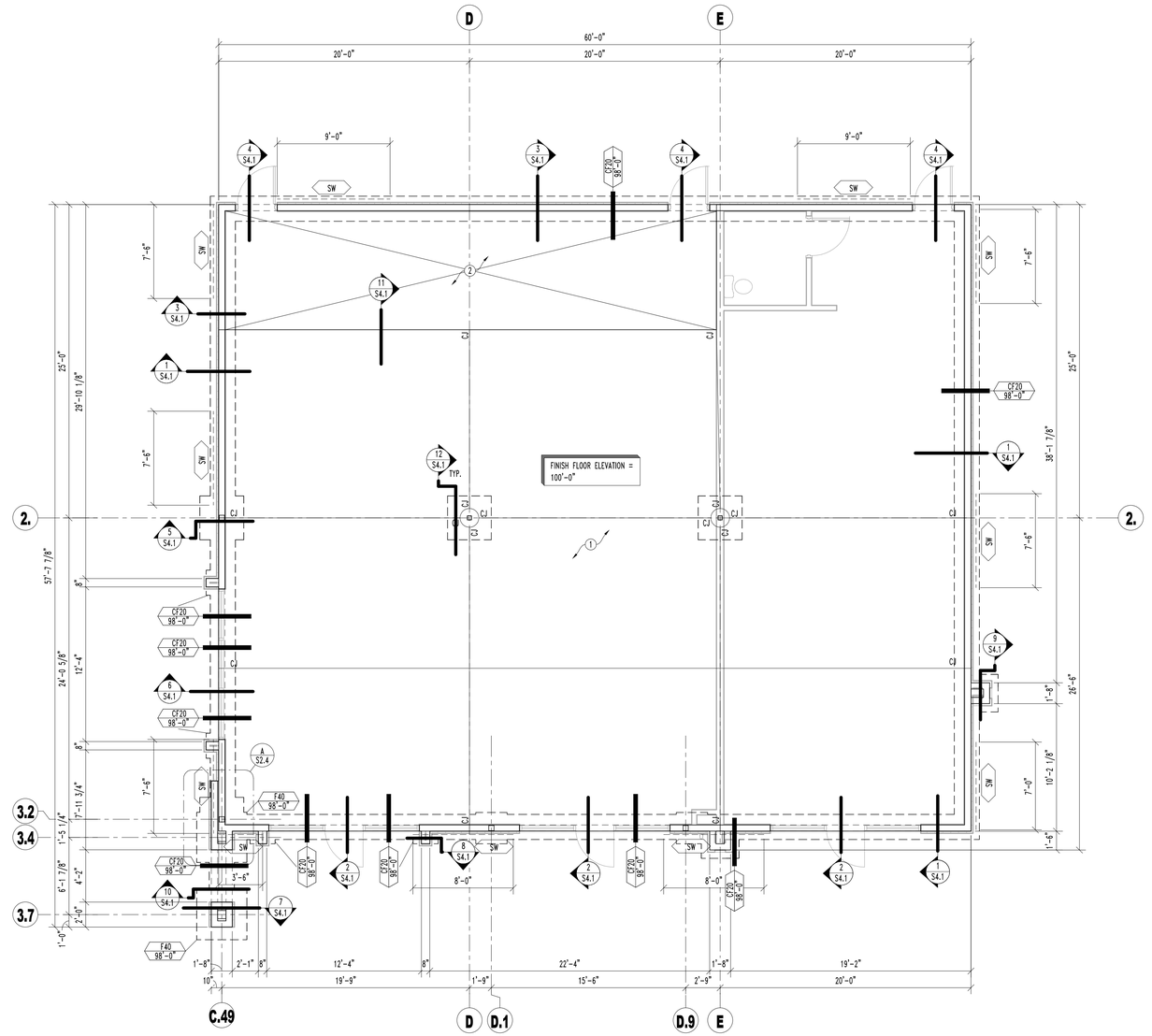
2. SLAB LEAVE OUT

FOOTING SCHEDULE

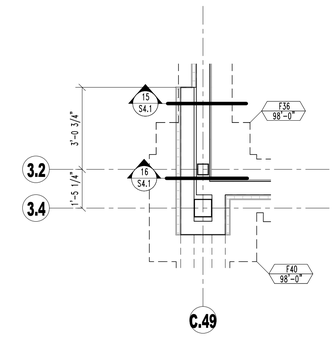
XX — FOOTING MARK
XX'-XX" — BOTTOM OF FOOTING ELEVATION

FOOTING MARK	LONGITUDINAL WIDTH	TRANSVERSE WIDTH	DEPTH	LONGITUDINAL REINFORCEMENT	TRANSVERSE REINFORCEMENT
CF20	CONTINUOUS	2'-0"	1'-0"	2 - #5	#5 @ 12" O.C.
F26	2'-0"	2'-6"	1'-0"	3 - #4	3 - #4
F30	3'-0"	3'-0"	1'-0"	4 - #4	4 - #4
F36	3'-0"	3'-6"	1'-0"	5 - #4	5 - #4
F40	4'-0"	4'-0"	1'-0"	4 - #5 TOP & BOT.	4 - #5 TOP & BOT.

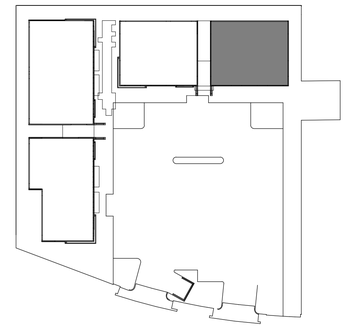


1 FOUNDATION PLAN – BLDG D
SCALE: 3/16" = 1'-0"

NORTH



A FOUNDATION PLAN
SCALE: 3/8" = 1'-0"



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FOUNDATION PLAN
BLDG D

COMMISSION No.
23-010
DATE: 08/14/2023
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Description Date

SHEET: **S2.4**
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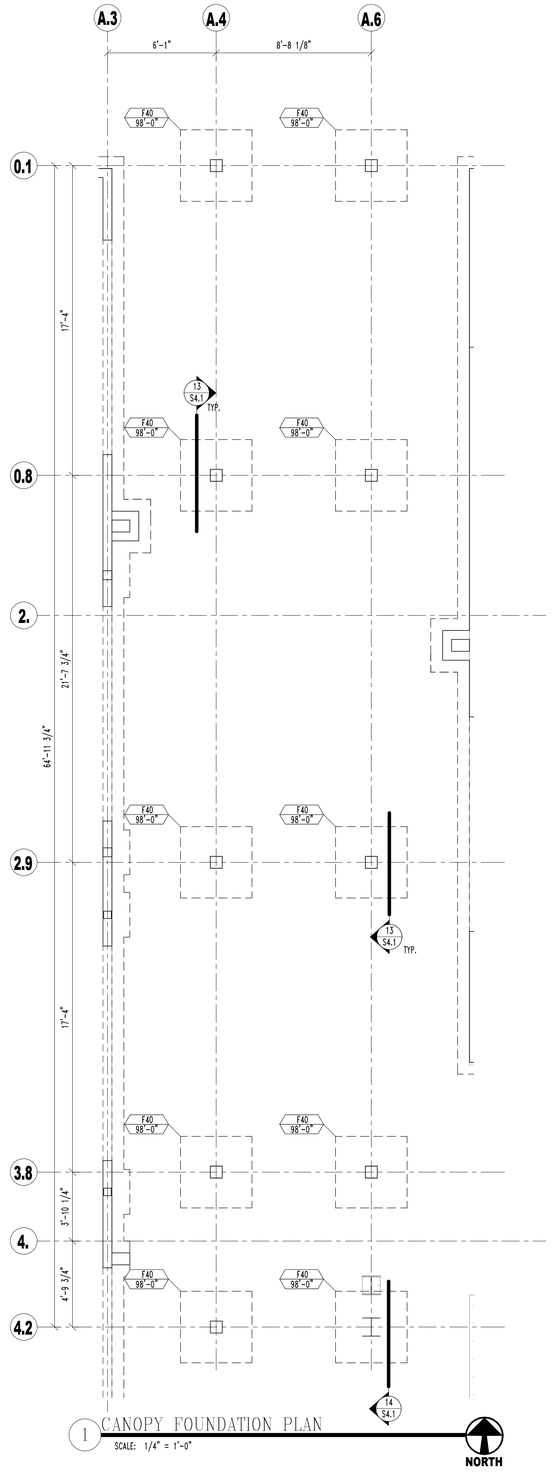

1 CANOPY FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

PLAN NOTES

ALL DIMENSIONS ARE TO FACE OF CONCRETE UNLESS NOTED OTHERWISE.

CJ INDICATES A SLAB CONSTRUCTION JOINT. REFERENCE DETAIL 1 / S4.0 .

SW INDICATES STRAP WALL TYPE. REFERENCE STRAP WALL SCHEDULE.

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XX'-XX" — BOTTOM OF FOOTING ELEVATION

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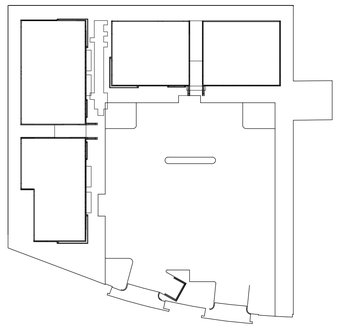
F30	3'-0"	3'-0"	1'-0"	4 - #4	4 - #4
F36	3'-0"	3'-6"	1'-0"	5 - #4	5 - #4
F40	4'-0"	4'-0"	1'-0"	4 - #5 TOP & BOT.	4 - #5 TOP & BOT.



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CANOPY FOUNDATION PLAN

COMMISSION No. 23-010
DATE: 08/14/2023
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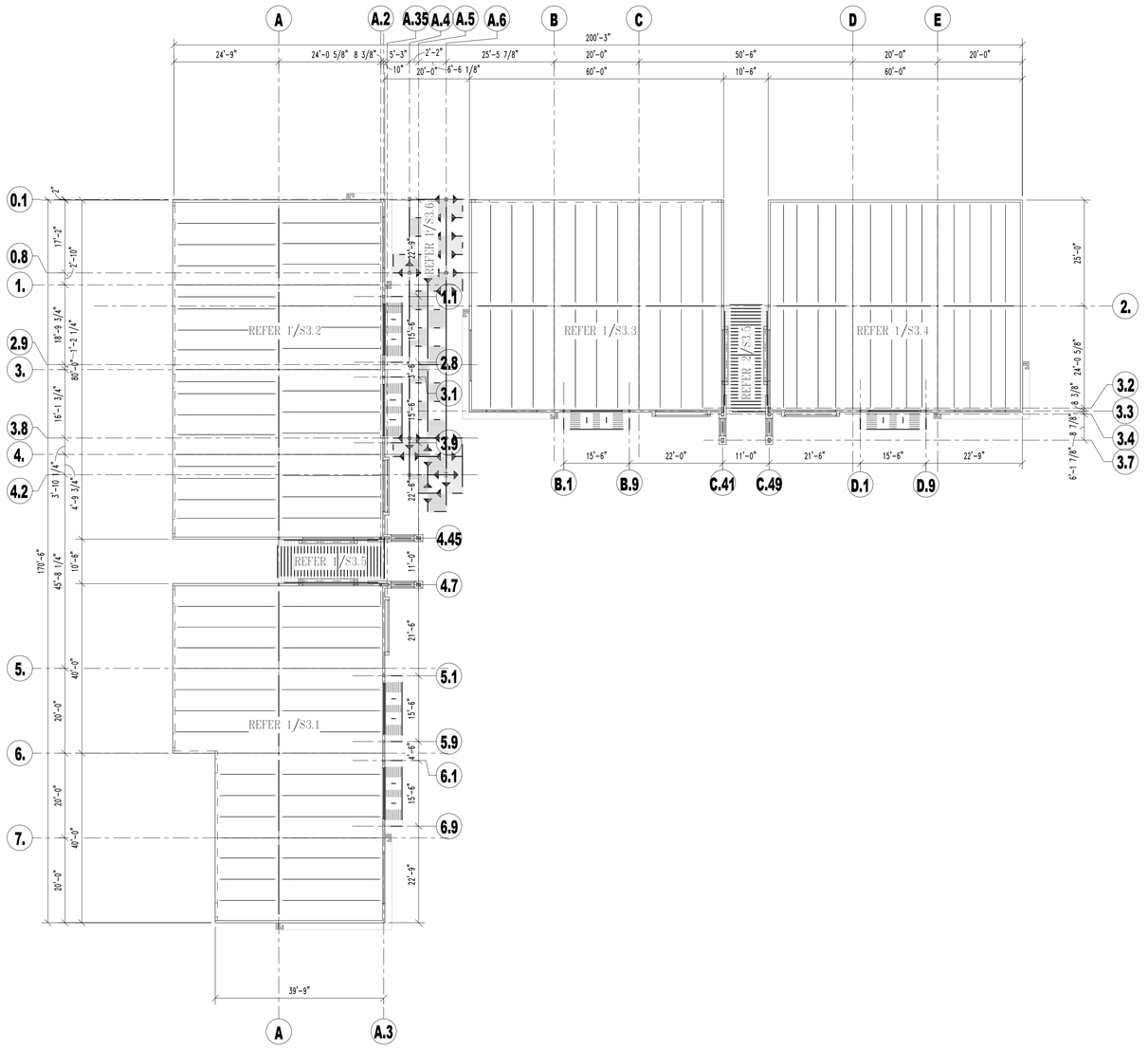
Description Date

SHEET: **S2.5**
OF



OVERALL ROOF FRAMING PLANS

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

NORTH

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OVERALL ROOF FRAMING PLAN

COMMISSION No. 23-010

DATE: 08/14/2023

REVISIONS

#	Description	Date

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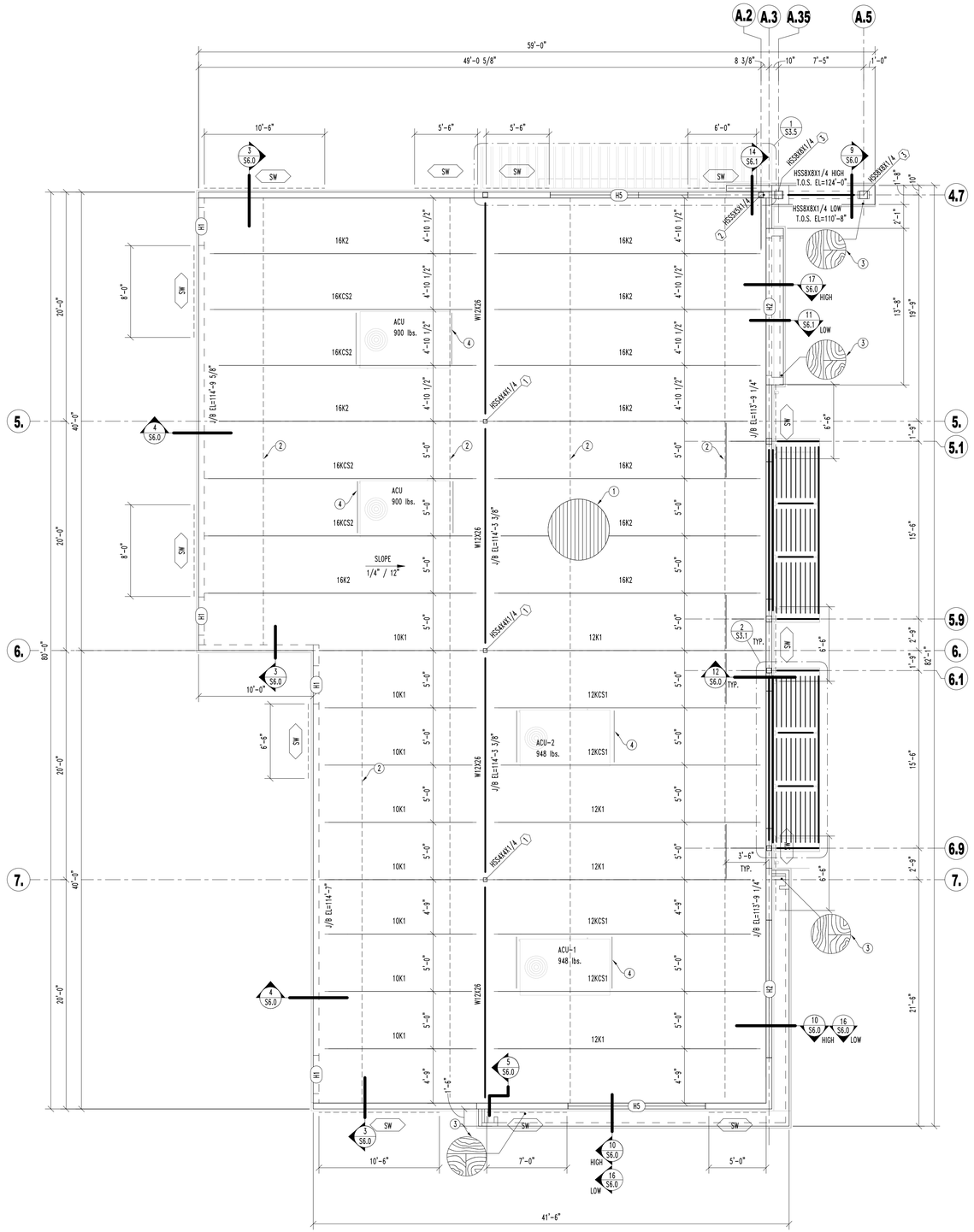


1 ROOF FRAMING PLAN – BLDG A

SCALE: 3/16" = 1'-0"

PLAN NOTES

ALL DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.

INDICATES BASE PLATE TYPE. REFERENCE DETAIL 13 / S5.0 FOR BASE PLATE SCHEDULE.

INDICATES MOMENT CONNECTION. REFERENCE DETAIL10 / S5.1 .

HX INDICATES LIGHT GAGE HEADER. REFERENCE DETAIL 1 / S5.0 FOR HEADER SCHEDULE.

WX INDICATES WALL TYPE. REFERENCE WALL SCHEDULE THIS SHEET.

SW INDICATES STRAP WALL TYPE. REFER DETAIL 2 / S5.0.

JOISTS SHALL BE EQUALLY SPACED UNLESS NOTED OTHERWISE.

J/B ELEVATION INDICATES ELEVATION AT BOTTOM OF JOIST SEAT.

REFERENCE DETAIL 5 / S5.1 FOR TYPICAL JOIST TO BEAM CONNECTION.

REFERENCE DETAIL 4 / S5.1 FOR TYPICAL JOIST TO COLUMN CONNECTION.

REFERENCE DETAILS 1 / S5.1 , 8 / S5.1 & 7 / S5.1 FOR TYPICAL BEAM TO COLUMN CONNECTION.

REFERENCE DETAIL 3 / S5.1 FOR TYPICAL ROOF FRAME DETAIL.

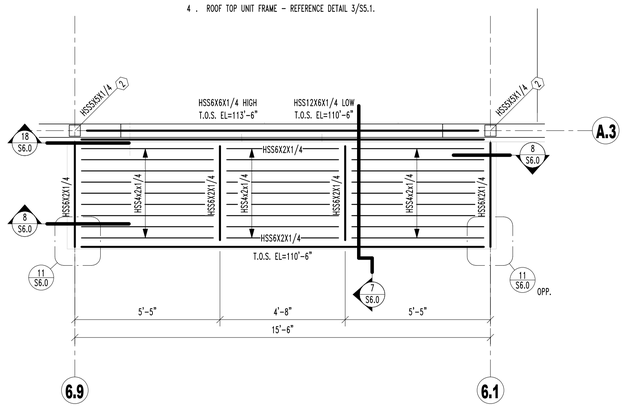
KEY NOTES

1 . 1-1/2" 22ga B DECK – REFERENCE STRUCTURAL NOTES

2 . JOIST BRIDGING PER SJI SPECIFICATIONS

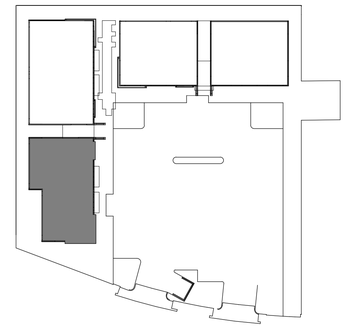
3 . ROOF SHEATHING – REFERENCE STRUCTURAL NOTES.

4 . ROOF TOP UNIT FRAME – REFERENCE DETAIL 3/S5.1.



2 CANOPY FRAMING PLAN – BLDG A

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



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ROOF FRAMING PLAN
BLDG A

COMMISSION No.
23-010

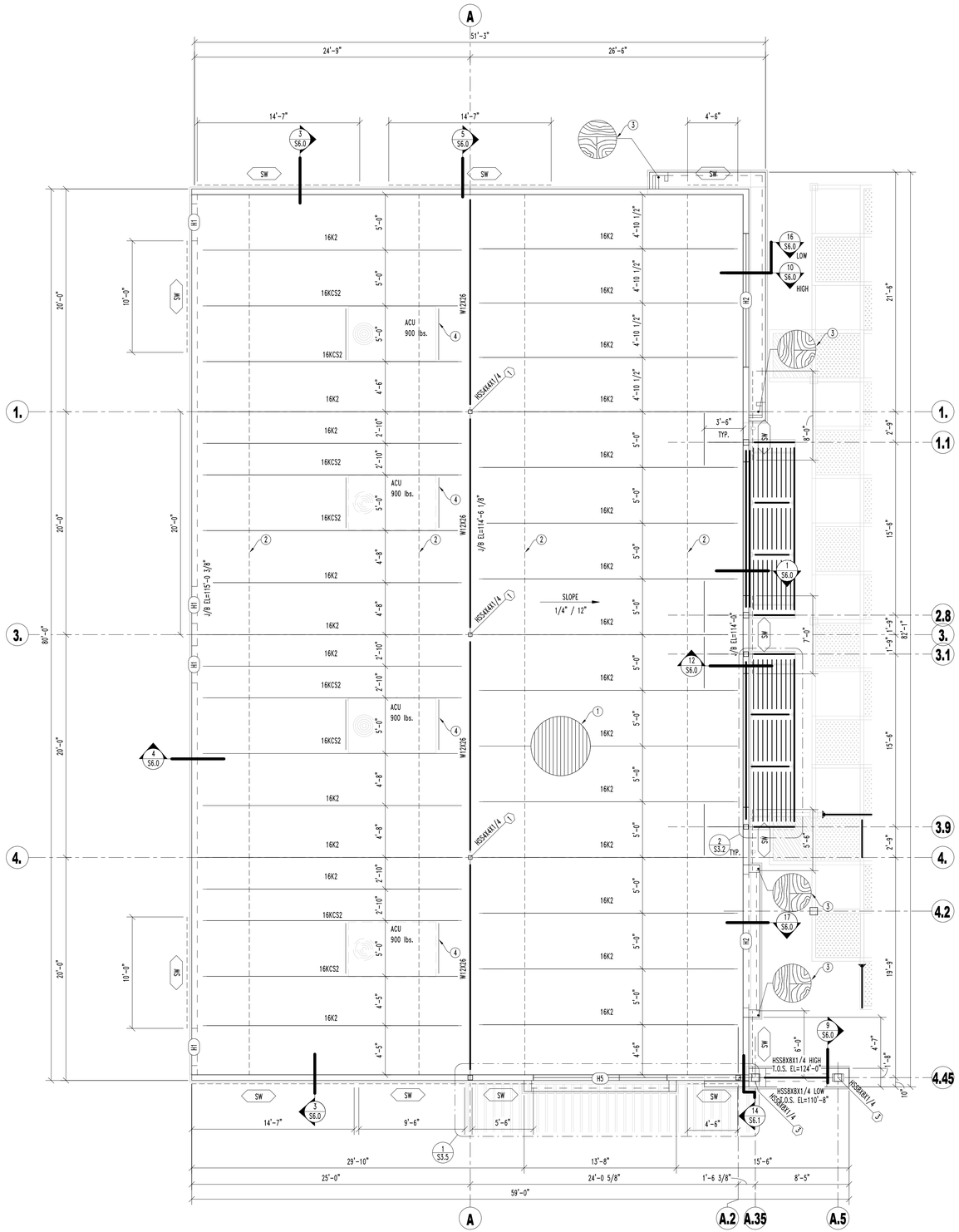
DATE: 08/14/2023

REVISIONS

#	Description	Date

SHEET: **S3.1**

OF



1 ROOF FRAMING PLAN – BLDG B

SCALE: 3/16" = 1'-0"

NORTH

PLAN NOTES

ALL DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.

INDICATES BASE PLATE TYPE. REFERENCE DETAIL 13 / S5.0 FOR BASE PLATE SCHEDULE.

INDICATES MOMENT CONNECTION. REFERENCE DETAIL10 / S5.1 .

HX INDICATES LIGHT GAGE HEADER. REFERENCE DETAIL 1 / S5.0 FOR HEADER SCHEDULE.

WX INDICATES WALL TYPE. REFERENCE WALL SCHEDULE THIS SHEET.

SW INDICATES STRAP WALL TYPE. REFER DETAIL 2 / S5.0.

JOISTS SHALL BE EQUALLY SPACED UNLESS NOTED OTHERWISE.

J/B ELEVATION INDICATES ELEVATION AT BOTTOM OF JOIST SEAT.

REFERENCE DETAIL 5 / S5.1 FOR TYPICAL JOIST TO BEAM CONNECTION.

REFERENCE DETAIL 4 / S5.1 FOR TYPICAL JOIST TO COLUMN CONNECTION.

REFERENCE DETAILS 1 / S5.1 , 8 / S5.1 & 7 / S5.1 FOR TYPICAL BEAM TO COLUMN CONNECTION.

REFERENCE DETAIL 3 / S5.1 FOR TYPICAL ROOF FRAME DETAIL.

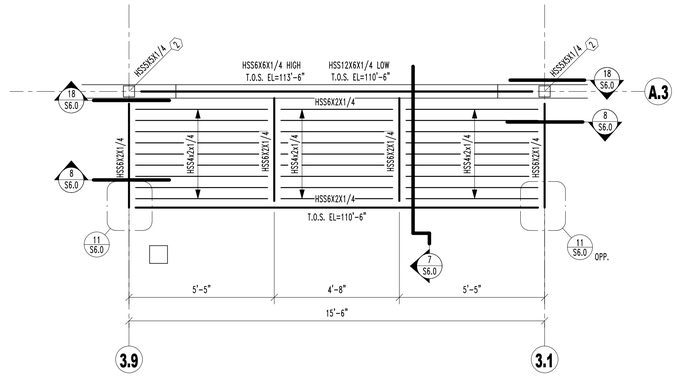
KEY NOTES

1 . 1-1/2" 22ga B DECK – REFERENCE STRUCTURAL NOTES

2 . JOIST BRIDGING PER SJI SPECIFICATIONS

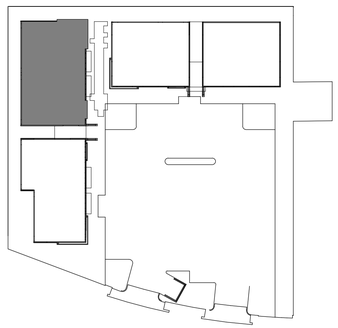
3 . ROOF SHEATHING – REFERENCE STRUCTURAL NOTES.

4 . ROOF TOP UNIT FRAME – REFERENCE DETAIL 3/S5.1.



2 CANOPY FRAMING PLAN – BLDG B

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



KEYPLAN

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ROOF FRAMING PLAN
BLDG B

COMMISSION No.
23-010

DATE: 08/14/2023

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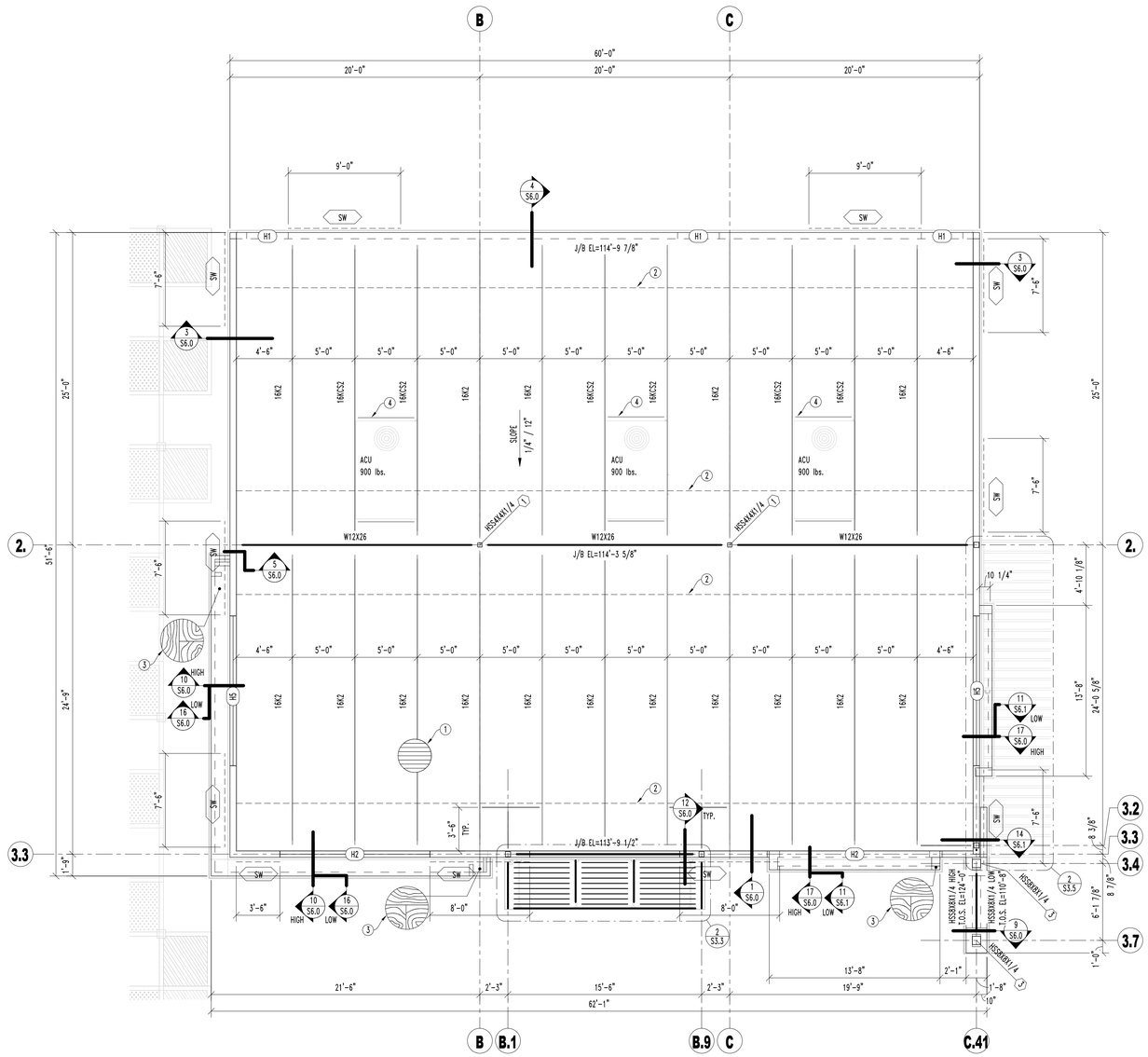

1 ROOF FRAMING PLAN – BLDG C

SCALE: 3/16" = 1'-0"

NORTH

PLAN NOTES

ALL DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.

INDICATES BASE PLATE TYPE. REFERENCE DETAIL 13 / S5.0 FOR BASE PLATE SCHEDULE.

INDICATES MOMENT CONNECTION. REFERENCE DETAIL10 / S5.1 .

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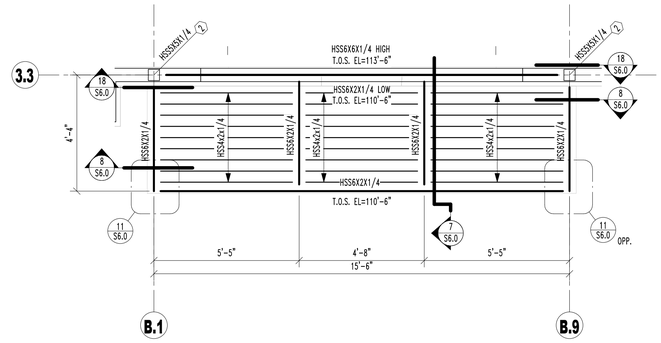
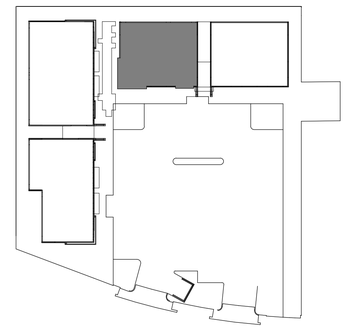
4 . ROOF TOP UNIT FRAME – REFERENCE DETAIL 3/S5.1.



2 CANOPY FRAMING PLAN – BLDG C

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



KEYPLAN

STUBBS ENGINEERING, INC.
310 N. MESA
SUITE 900
EL PASO, TX 79901
PH: (915) 228-3488
TBPE FIRM NO.: F-12826
SEI JOB NO.:M35-006

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MICHAEL A. STUBBS
92016
LICENSED
PROFESSIONAL ENGINEER
8/14/23

A PROPOSED NEW
RETAIL CENTER
AT
403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

1810 Wyoming ave
el paso, tx 79903
phone: 915.544.0202
fax: 915.534.8083
psrbb
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www.psrbbcommgroup.com

ROOF FRAMING PLAN
BLDG C

COMMISSION No.
23-010

DATE: 08/14/2023

REVISIONS

#	Description	Date

SHEET: **S3.3**

OF

PLAN NOTES

ALL DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.

INDICATES BASE PLATE TYPE. REFERENCE DETAIL 13 / S5.0 FOR BASE PLATE SCHEDULE.

INDICATES MOMENT CONNECTION. REFERENCE DETAIL10 / S5.1 .

HX INDICATES LIGHT GAGE HEADER. REFERENCE DETAIL 1 / S5.0 FOR HEADER SCHEDULE.

WX INDICATES WALL TYPE. REFERENCE WALL SCHEDULE THIS SHEET.

SW INDICATES STRAP WALL TYPE. REFER DETAIL 2 / S5.0.

JOISTS SHALL BE EQUALLY SPACED UNLESS NOTED OTHERWISE.

J/B ELEVATION INDICATES ELEVATION AT BOTTOM OF JOIST SEAT.

REFERENCE DETAIL 5 / S5.1 FOR TYPICAL JOIST TO BEAM CONNECTION.

REFERENCE DETAIL 4 / S5.1 FOR TYPICAL JOIST TO COLUMN CONNECTION.

REFERENCE DETAILS 1 / S5.1 , 8 / S5.1 & 7 / S5.1 FOR TYPICAL BEAM TO COLUMN CONNECTION.

REFERENCE DETAIL 3 / S5.1 FOR TYPICAL ROOF FRAME DETAIL.

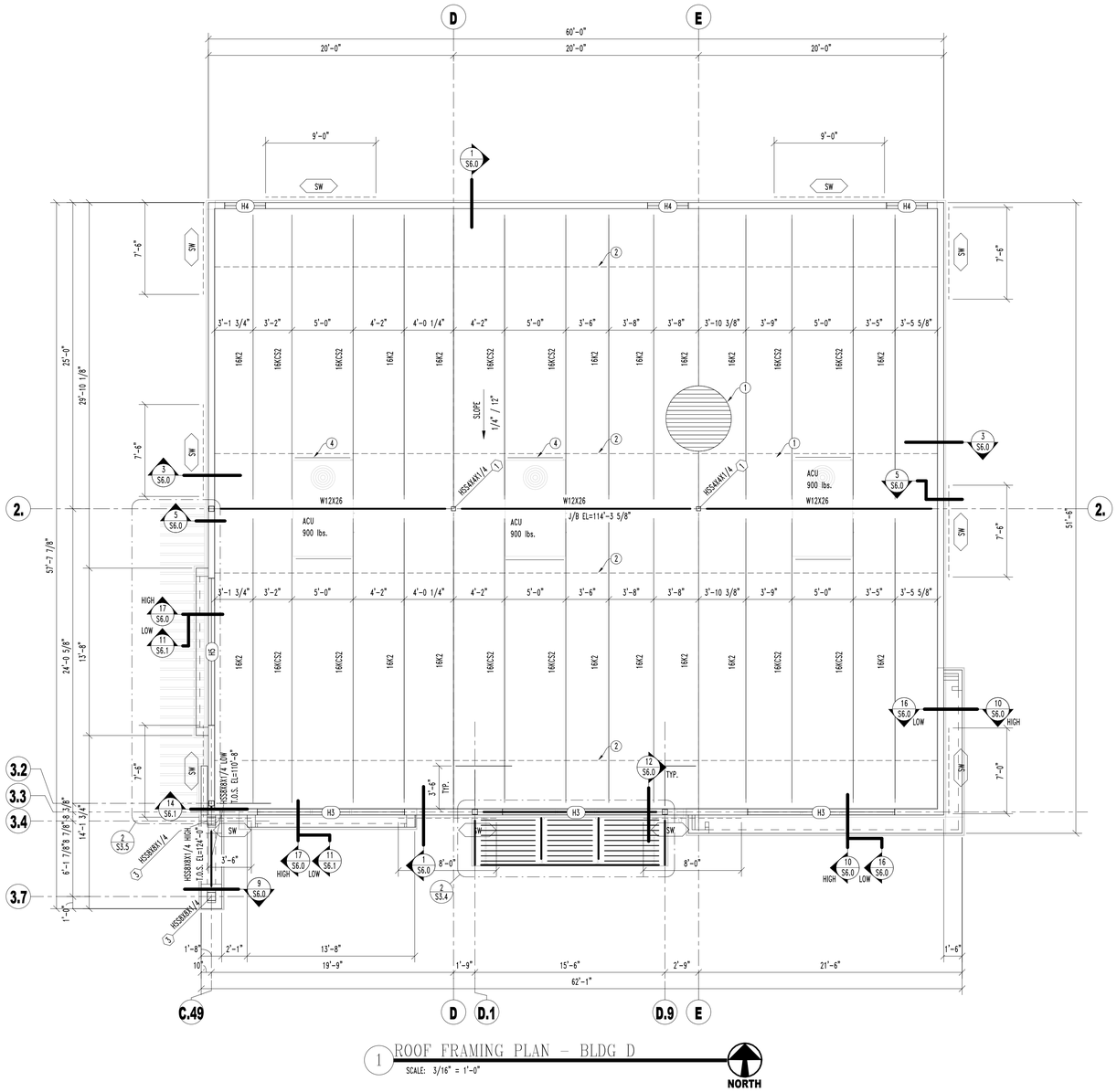
KEY NOTES

1 . 1-1/2" 22ga B DECK - REFERENCE STRUCTURAL NOTES

2 . JOIST BRIDGING PER SJI SPECIFICATIONS

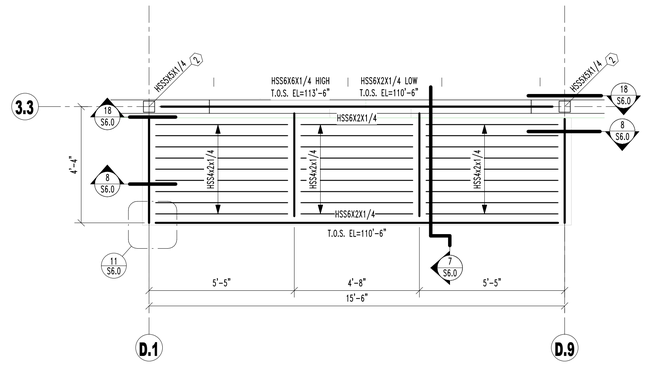
3 . ROOF SHEATHING - REFERENCE STRUCTURAL NOTES.

4 . ROOF TOP UNIT FRAME - REFERENCE DETAIL 3/S5.1.



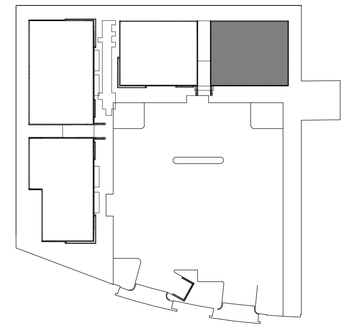
1 ROOF FRAMING PLAN - BLDG D

SCALE: 3/16" = 1'-0"



2 CANOPY FRAMING PLAN - BLDG D

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



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310 N. MESA
SUITE 800
EL PASO, TX 79901
PH: (915) 228-3488
TBPE FIRM NO.: F-12826
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MICHAEL A. STUBBS
92016
LICENSED
PROFESSIONAL ENGINEER
8/14/23

A PROPOSED NEW
RETAIL CENTER
AT
403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

psrbb
commercial design group, inc.
1810 Wyoming ave
el paso, tx 79903
phone: 915.534.8082
fax: 915.534.8083
www.psrbbcommgroup.com

ROOF FRAMING PLAN
BLDG D

COMMISSION No.
23-010

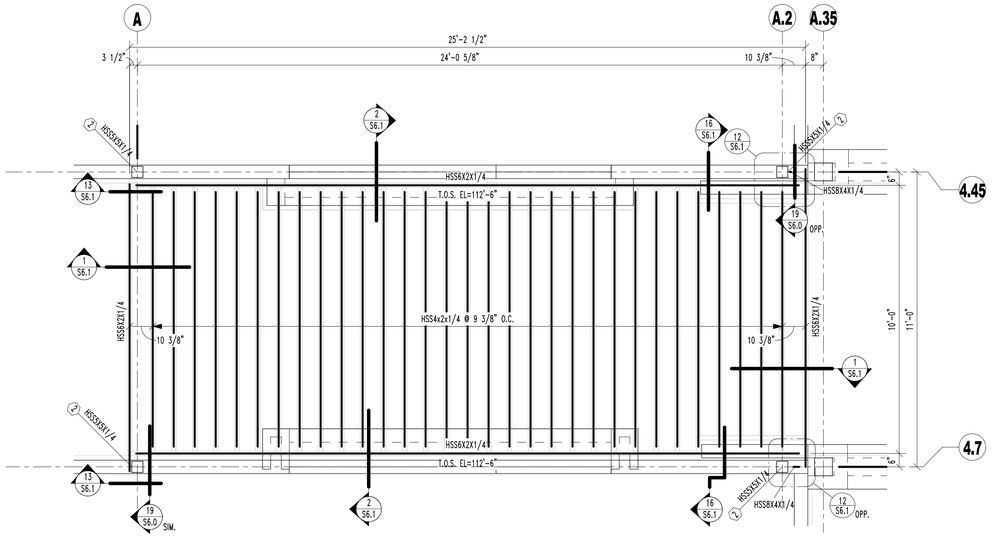
DATE: 08/14/2023

REVISIONS

#	Description	Date

SHEET: **S3.4**

OF

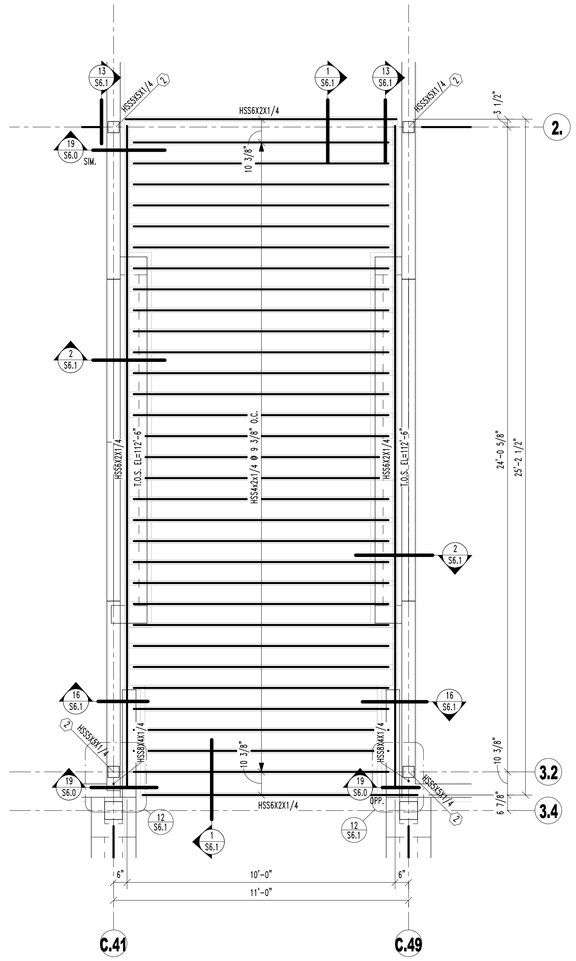


1 TRELLIS FRAMING PLAN

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

BUILDING A & B

NORTH



2 TRELLIS FRAMING PLAN

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

BUILDING C & D

NORTH

PLAN NOTES

ALL DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.

INDICATES BASE PLATE TYPE. REFERENCE DETAIL 13 / S5.0 FOR BASE PLATE SCHEDULE.

INDICATES MOMENT CONNECTION. REFERENCE DETAIL10 / S5.1 .

HX INDICATES LIGHT GAGE HEADER. REFERENCE DETAIL 1 / S5.0 FOR HEADER SCHEDULE.

WX INDICATES WALL TYPE. REFERENCE WALL SCHEDULE THIS SHEET.

SW INDICATES STRAP WALL TYPE. REFER DETAIL 2 / S5.0.

JOISTS SHALL BE EQUALLY SPACED UNLESS NOTED OTHERWISE.

J/B ELEVATION INDICATES ELEVATION AT BOTTOM OF JOIST SEAT.

REFERENCE DETAIL 5 / S5.1 FOR TYPICAL JOIST TO BEAM CONNECTION.

REFERENCE DETAIL 4 / S5.1 FOR TYPICAL JOIST TO COLUMN CONNECTION.

REFERENCE DETAILS 1 / S5.1 , 8 / S5.1 & 7 / S5.1 FOR TYPICAL BEAM TO COLUMN CONNECTION.

REFERENCE DETAIL 3 / S5.1 FOR TYPICAL ROOF FRAME DETAIL.

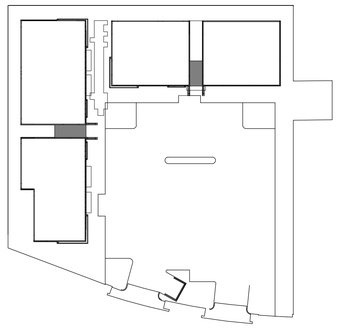
KEY NOTES

1 . 1-1/2" 22ga B DECK - REFERENCE STRUCTURAL NOTES

2 . JOIST BRIDGING PER SJI SPECIFICATIONS

3 . ROOF SHEATHING - REFERENCE STRUCTURAL NOTES.

4 . ROOF TOP UNIT FRAME - REFERENCE DETAIL 3/S5.1.



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310 N. MESA
SUITE 800
EL PASO, TX 79901
PH: (915) 228-3488
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MICHAEL A. STUBBS
92016
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1810 Wyoming ave
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phone: 915.534.8082
fax: 915.534.8083
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TRELLIS FRAMING PLAN

COMMISSION No. 23-010

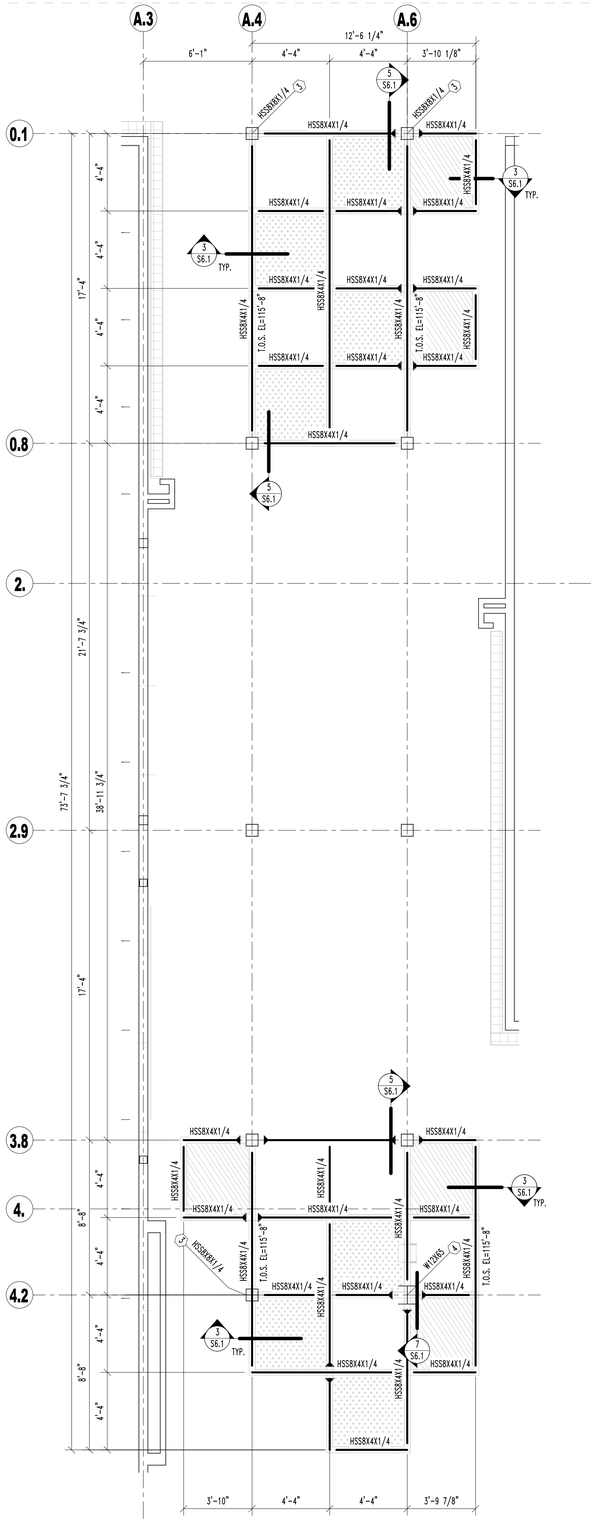
DATE: 08/14/2023

REVISIONS

#	Description	Date

SHEET: **S3.5**

OF

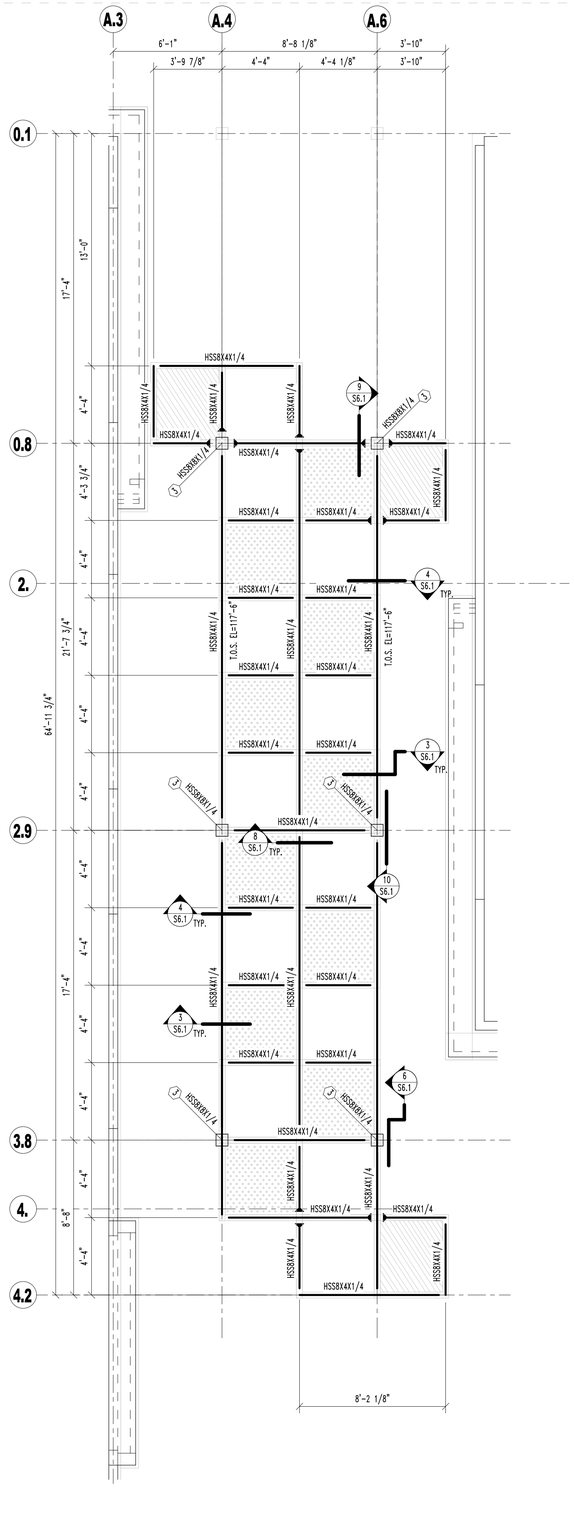


1 CANOPY LOW FRAMING PLAN

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

BUILDING B & C

NORTH



2 CANOPY HIGH FRAMING PLAN

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

BUILDING B & C

NORTH

PLAN NOTES

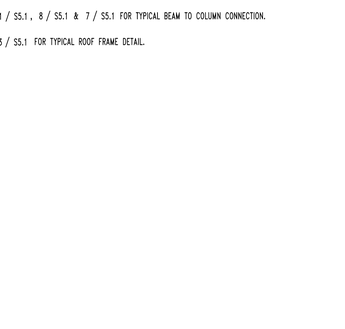
(N) INDICATES BASE PLATE TYPE. REFERENCE DETAIL 13 / S5.0 FOR BASE PLATE SCHEDULE.

▶ INDICATES MOMENT CONNECTION. REFERENCE DETAIL 10 / S5.1 .

REFERENCE DETAIL 4 / S5.1 FOR TYPICAL JOIST TO COLUMN CONNECTION.

REFERENCE DETAILS 1 / S5.1 , 8 / S5.1 & 7 / S5.1 FOR TYPICAL BEAM TO COLUMN CONNECTION.

REFERENCE DETAIL 3 / S5.1 FOR TYPICAL ROOF FRAME DETAIL.



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310 N. MESA
SUITE 800
EL PASO, TX 79901
PH: (915) 228-3488
TBPE FIRM NO.: F-12826
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MICHAEL A. STUBBS
92016
LICENSED
PROFESSIONAL ENGINEER
8/14/23

A PROPOSED NEW
RETAIL CENTER
AT
403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

psrbb
commercial architecture
1810 Wyoming ave
el paso, tx 79903
ph: 915.534.8082
fax: 915.534.8083
www.psrbbcommgroup.com

CANOPY FRAMING PLAN

COMMISSION No. 23-010

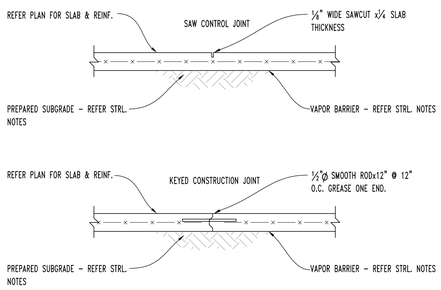
DATE: 08/14/2023

REVISIONS

#	Description	Date

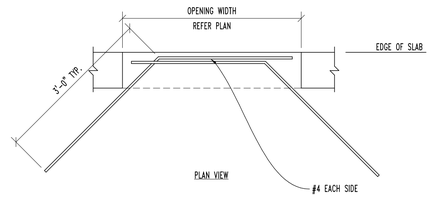
SHEET: **S3.6**

OF



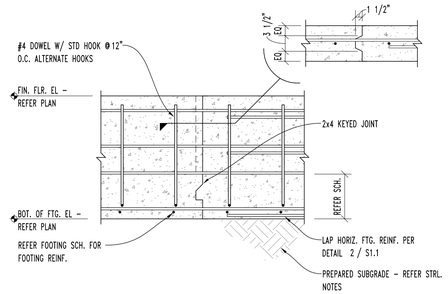
1 TYPICAL SLAB CONTROL JOINT

SCALE: 3/4" = 1'-0"



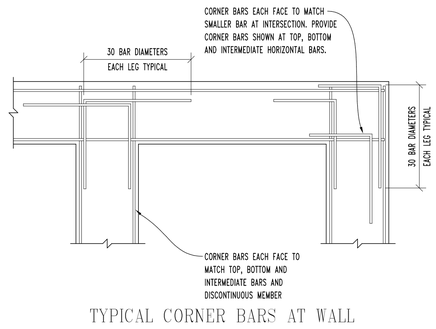
2 TYPICAL SLAB REINFORCEMENT @ OPENING

SCALE: 3/4" = 1'-0"



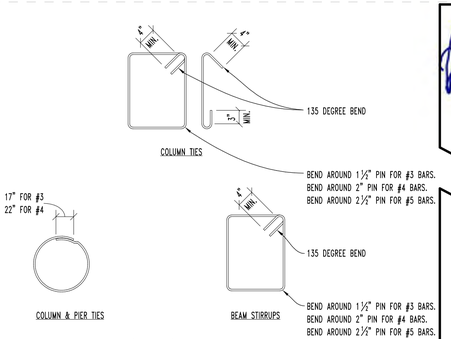
3 TYPICAL FOOTING CONSTRUCTION JOINTS

SCALE: 3/4" = 1'-0"



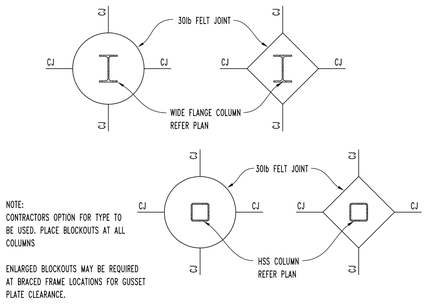
4 TYPICAL CORNER BARS AT WALL OR GRADE BEAM INTERSECTION DETAIL

SCALE: N.T.S.



5 TYPICAL CONCRETE REINFORCING BAR DETAILS

SCALE: 3/4" = 1'-0"

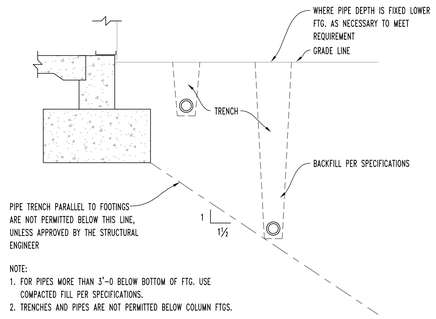


NOTE:
CONTRACTORS OPTION FOR TYPE TO BE USED. PLACE BLOCKOUTS AT ALL COLUMNS

ENLARGED BLOCKOUTS MAY BE REQUIRED AT BRACED FRAME LOCATIONS FOR GUSSET PLATE CLEARANCE.

6 TYPICAL COLUMN BLOCKOUT

SCALE: N.T.S.



NOTE:
1. FOR PIPES MORE THAN 3'-0 BELOW BOTTOM OF FTG. USE COMPACTED FILL PER SPECIFICATIONS.
2. TRENCHES AND PIPES ARE NOT PERMITTED BELOW COLUMN FTGS.

7 TYPICAL PIPE & TRENCH DETAIL

SCALE: 3/4" = 1'-0"

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STUBBS ENGINEERING, INC.
310 N. MESA
SUITE 800
EL PASO, TX 79901
PH: (915) 228-3488
TBPE FIRM NO.: F-12826
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MICHAEL A. STUBBS
92018
LICENSED
PROFESSIONAL ENGINEER
8/14/23

A PROPOSED NEW
RETAIL CENTER
AT
403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

1810 Wyoming ave
el paso, tx 79903
ph: 915.534.8082
fax: 915.534.8083
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TYPICAL FOUNDATION DETAILS

COMMISSION No. 23-010

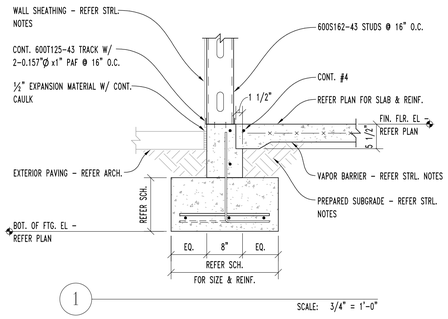
DATE: 08/14/2023

REVISIONS

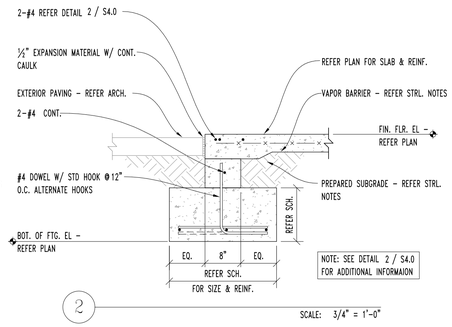
#	Description	Date

SHEET: **S4.0**

OF



1 SCALE: 3/4" = 1'-0"



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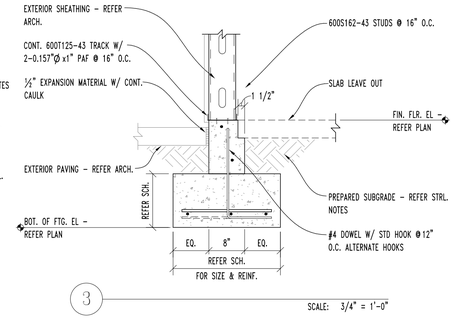
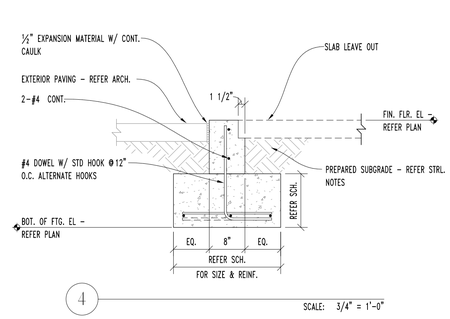
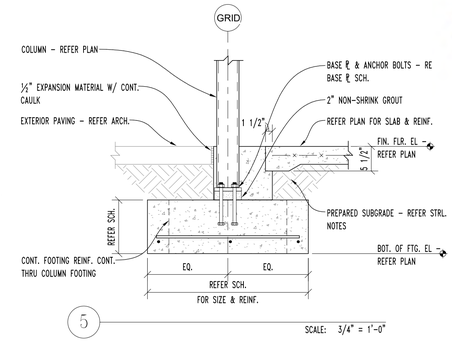


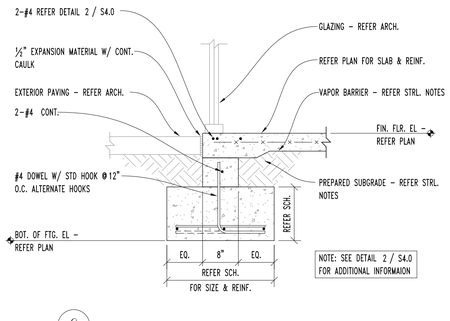
3 SCALE: 3/4" = 1'-0"



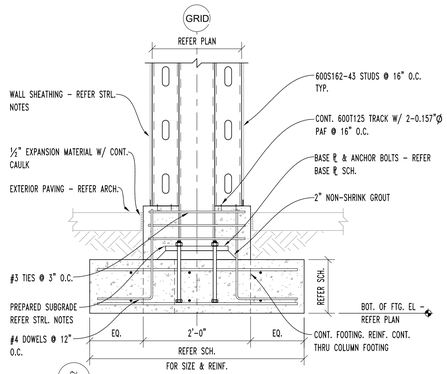
4 SCALE: 3/4" = 1'-0"



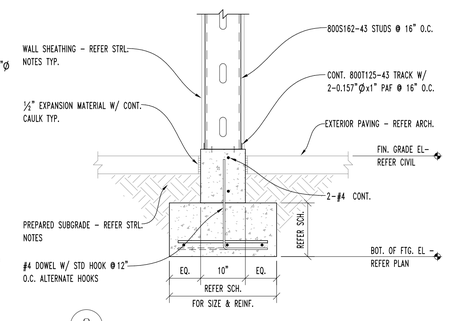
5 SCALE: 3/4" = 1'-0"



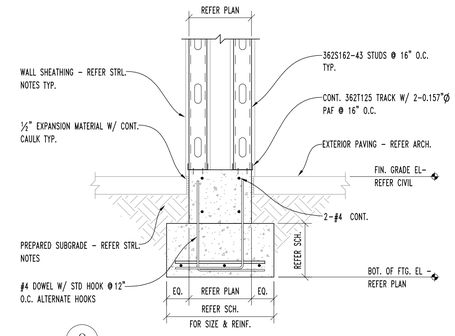
6 SCALE: 3/4" = 1'-0"



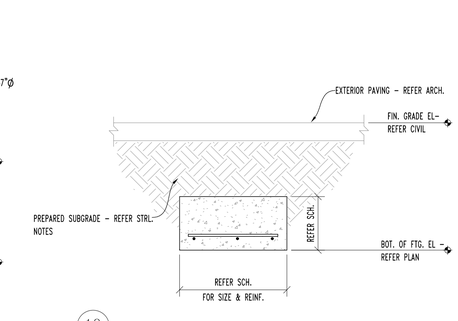
7 SCALE: 3/4" = 1'-0"



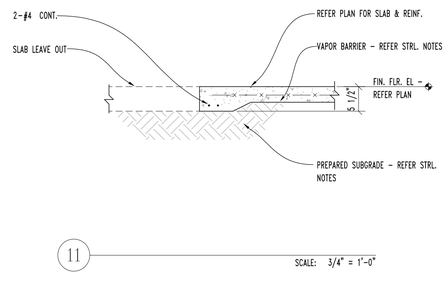
8 SCALE: 3/4" = 1'-0"



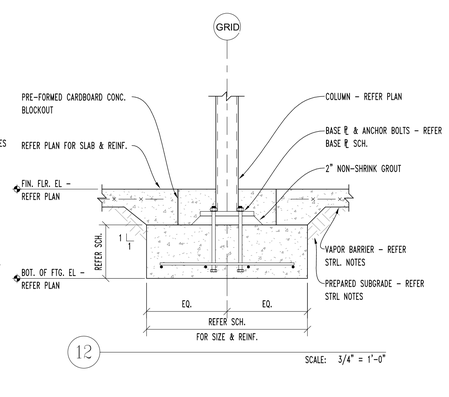
9 SCALE: 3/4" = 1'-0"



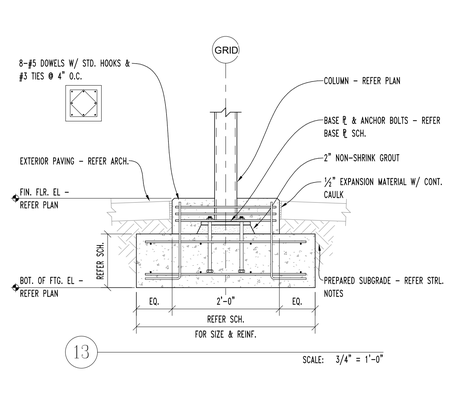
10 SCALE: 3/4" = 1'-0"



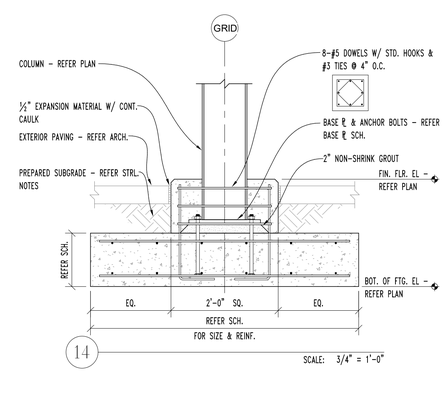
11 SCALE: 3/4" = 1'-0"



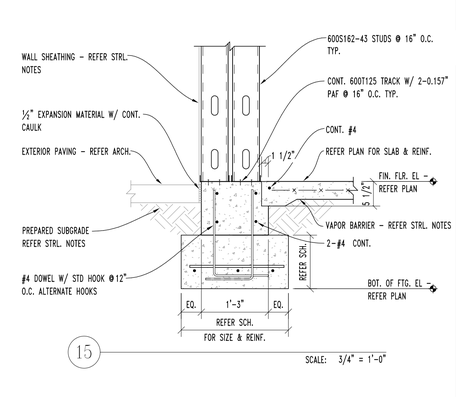
12 SCALE: 3/4" = 1'-0"



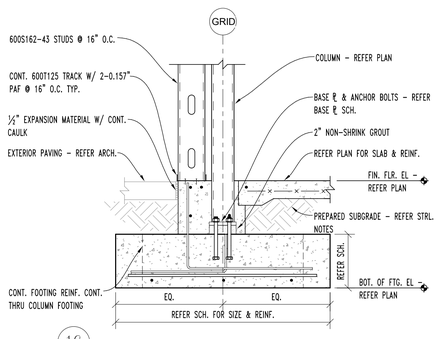
13 SCALE: 3/4" = 1'-0"



14 SCALE: 3/4" = 1'-0"



15 SCALE: 3/4" = 1'-0"



16 SCALE: 3/4" = 1'-0"

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FOUNDATION DETAILS

COMMISSION No. 23-010

DATE: 08/14/2023

REVISIONS

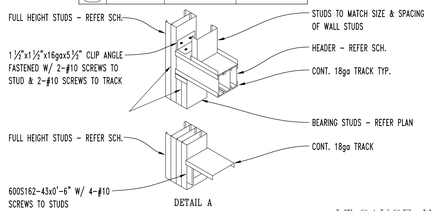
#	Description	Date

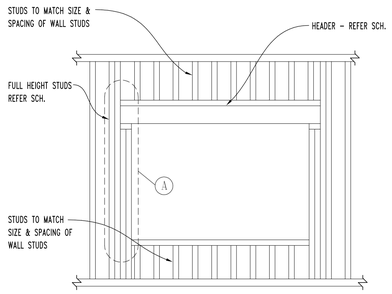
SHEET: **S4.1**

OF

HEADER SCHEDULE

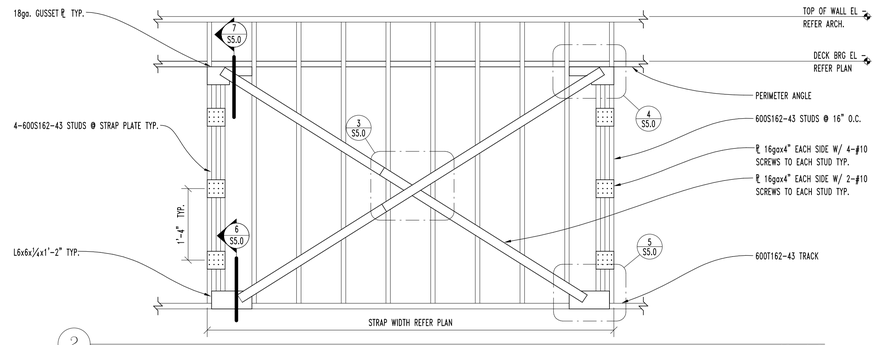
MARK	HEADER	BEARING STUDS	FULL HEIGHT STUDS
H1	2-300S162-43	3-600S162-43	2-600S162-43
H2	3-800S162-54	3-600S162-54	3-600S162-54
H3	3-1200S162-54	1-600S162-97	2-600S162-97
H4	2-362S162-43	3-600S162-54	1-600S162-54
H5	2-600S162-43	3-600S162-43	1-600S162-43





1 LT.GAUGE HEADER SCHEDULE

SCALE: 3/4" = 1'-0"



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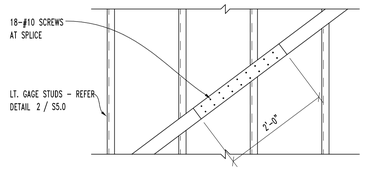
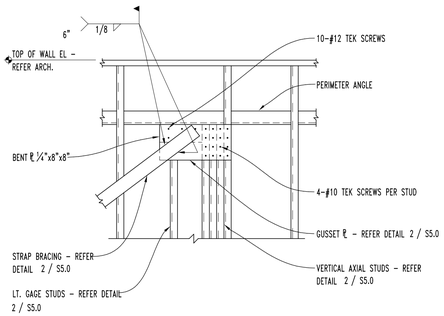


3 TYPICAL STRAP BRACE SPLICE

SCALE: 3/4" = 1'-0"



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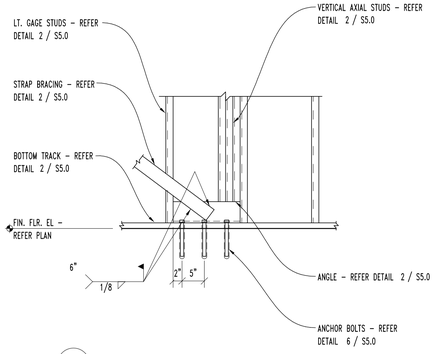

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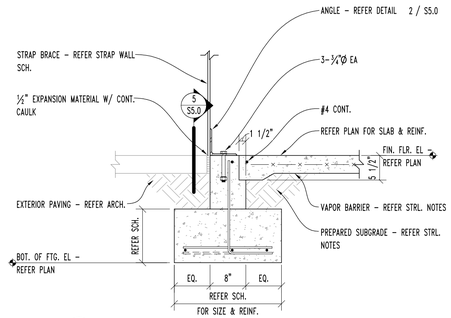

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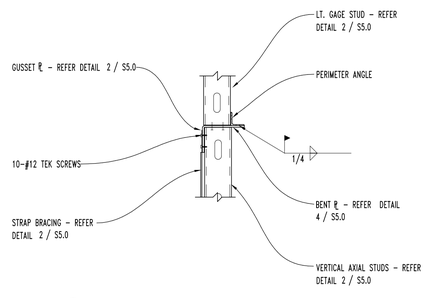

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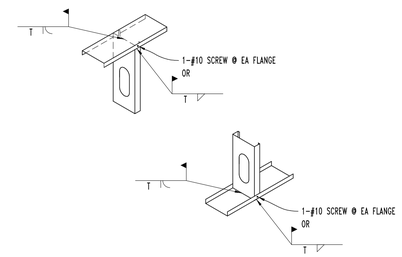
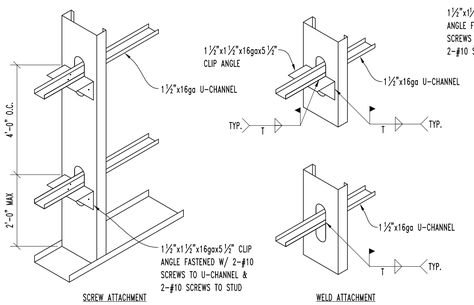
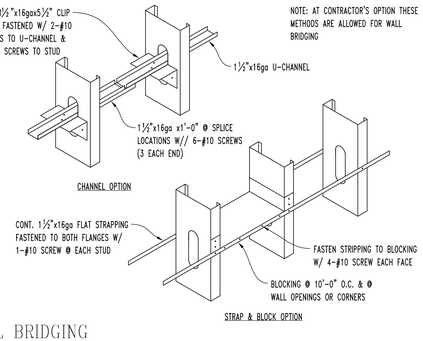


8 TYPICAL STUD TO TRACK DETAIL

SCALE: N.T.S.

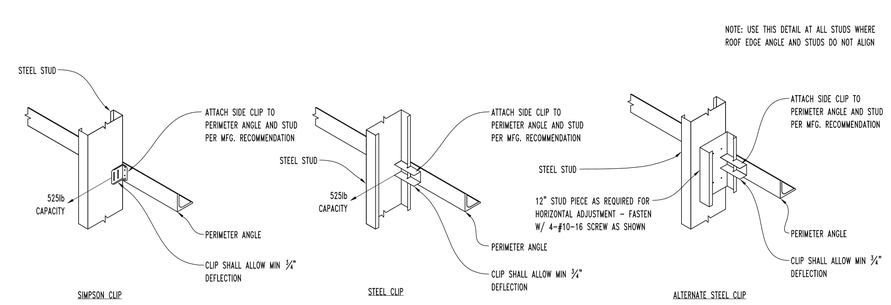




NOTE: AT CONTRACTOR'S OPTION THESE METHODS ARE ALLOWED FOR WALL BRIDGING

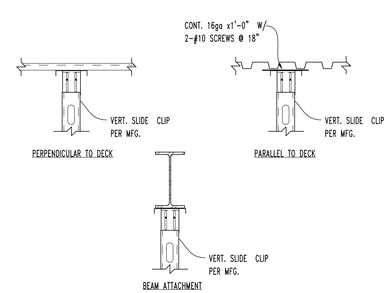
9 TYPICAL WALL BRIDGING

SCALE: N.T.S.



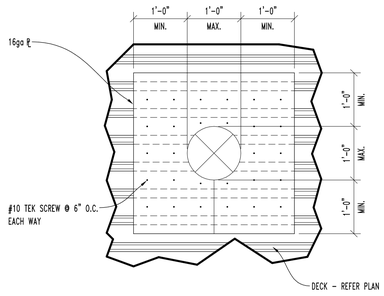
10 TYPICAL SLIDE CLIP

SCALE: N.T.S.



11 TYPICAL SLIP TRACK

SCALE: 3/4" = 1'-0"



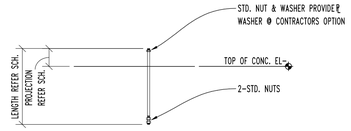
12 ROOF OPENING LESS 12 INCHES

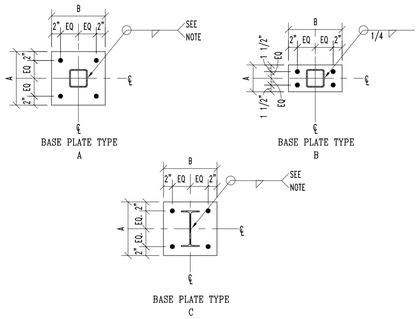
SCALE: 3/4" = 1'-0"

BASE PLATE SCHEDULE

MARK	BASE PLATE TYPE	BASE PLATE SIZE "thickness"x"A"x"B"	ANCHOR BOLTS	ANCHOR BOLT PROJECTION
ⓐ	A	¾"x10"x10"	4-¾"Ø x12"	4"
ⓑ	B	¾"x6"x14"	4-¾"Ø x12"	4"
ⓒ	A	1"x18"x20"	4-1"Ø x12"	4"
ⓓ	C	¾"x16"x16"	4-¾"Ø x12"	4"

NOTE: ALL COLUMN TO BASE PLATE WELDS SHALL MEET THE REQUIREMENTS OF TABLE J2.4 OF THE AISC MANUAL UNLESS NOTED OTHERWISE.





13 BASE PLATE SCHEDULE

SCALE: 3/4" = 1'-0"

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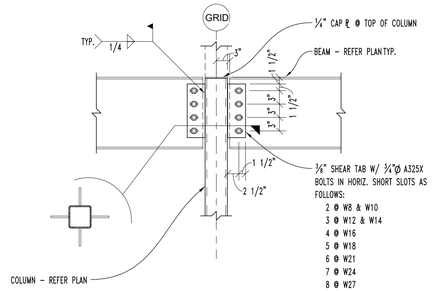
TYPICAL FRAMING DETAILS

COMMISSION No. 23-010
DATE: 08/14/2023

REVISIONS

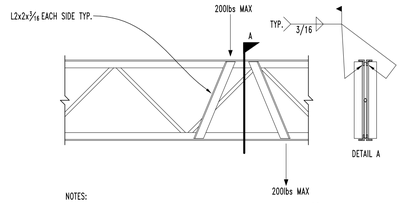
#	Description	Date

SHEET: **S5.0**
OF



TYPICAL W BEAM TO HSS COLUMN CONNECTION

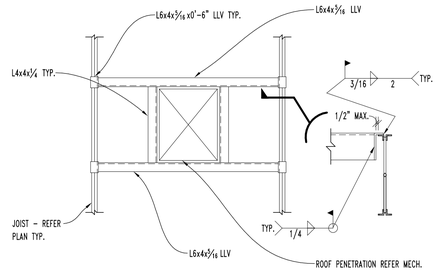
1 SCALE: 3/4" = 1'-0"



NOTES:
1. LOADS SUPPORTED FROM BOTTOM CHORD OF JOIST SHALL HAVE L2x2x3/16 EACH SIDE TO ADJACENT PANEL POINT ON TOP CHORD.
2. LOADS SUPPORTED BY TOP CHORD OF JOISTS SHALL HAVE L2x2x3/16 EACH SIDE TO ADJACENT PANEL POINT ON BOTTOM CHORD.
3. LOADS IN EXCESS OF 200 LBS SHALL NOT BE SUPPORTED BY JOIST WITHOUT PRIOR APPROVAL OF ENGINEER.
4. LOADS SUPPORTED WITHIN 4 INCHES OF A PANEL POINT DO NOT REQUIRE ANGLES TO OPPOSITE CHORD.

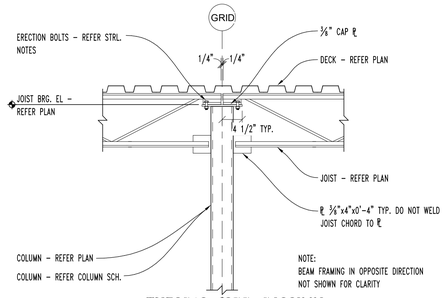
TYPICAL JOIST REINFORCING

2 SCALE: 3/4" = 1'-0"



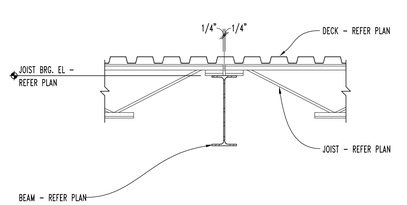
TYPICAL ROOF FRAME

3 SCALE: 3/4" = 1'-0"



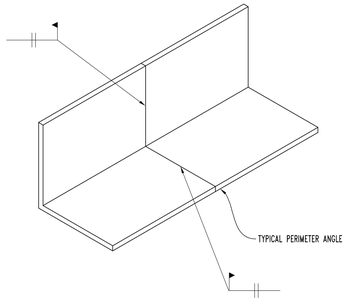
TYPICAL HSS COLUMN CONNECTION

4 SCALE: 3/4" = 1'-0"



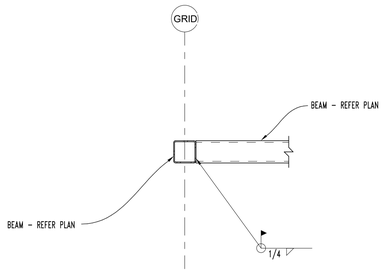
TYPICAL JOIST TO W BEAM CONNECTION

5 SCALE: 3/4" = 1'-0"



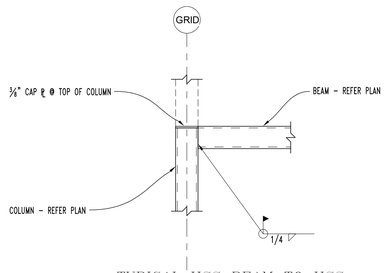
TYPICAL PERIMETER DECK ANGLE SPLICE

6 SCALE: 3/4" = 1'-0"



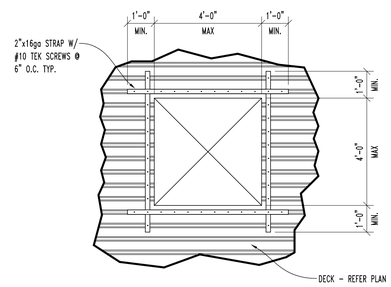
TYPICAL HSS BEAM TO HSS BEAM CONNECTION

7 SCALE: 3/4" = 1'-0"



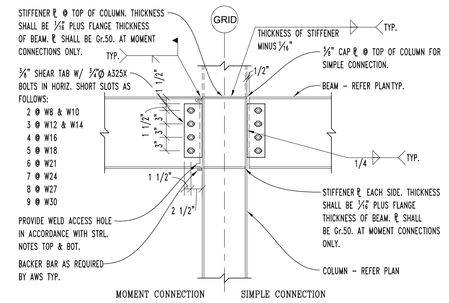
TYPICAL HSS BEAM TO HSS COLUMN CONNECTION

8 SCALE: 3/4" = 1'-0"



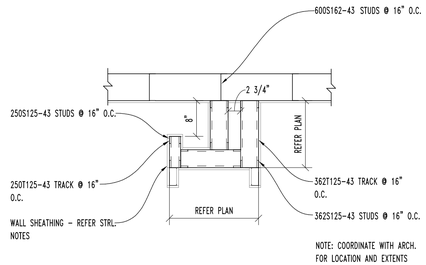
ROOF OPENING 4'-0" MAX

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



TYPICAL W BEAM TO W COLUMN CONNECTION

10 SCALE: 3/4" = 1'-0"



TYPICAL PILASTER FRAMING

11 SCALE: 3/4" = 1'-0"

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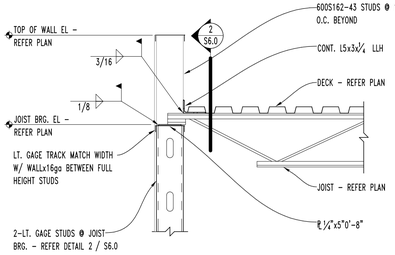
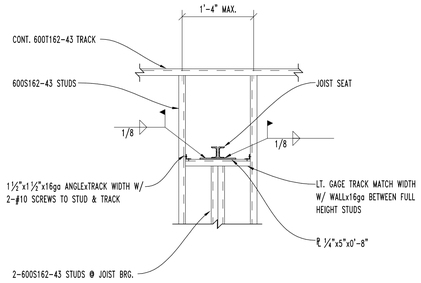
TYPICAL FRAMING DETAILS

COMMISSION No. 23-010
DATE: 08/14/2023
REVISIONS
Description Date

SHEET: S5.1
OF



1 SCALE: 3/4" = 1'-0"



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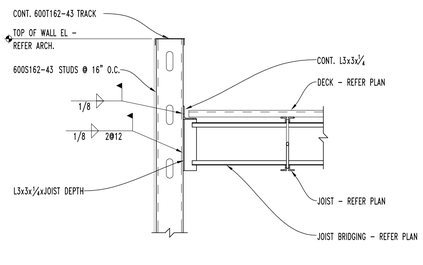

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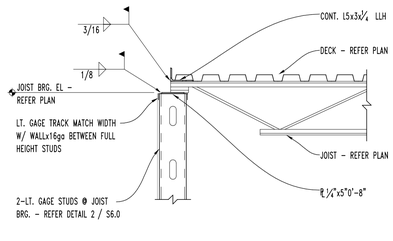

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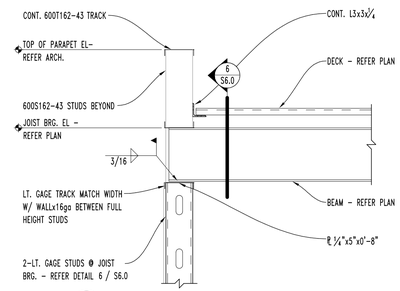

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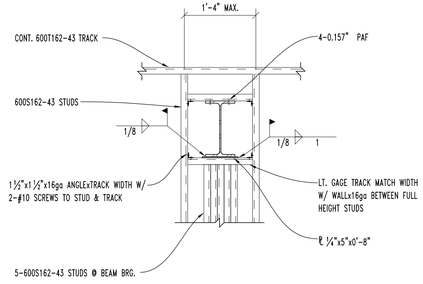
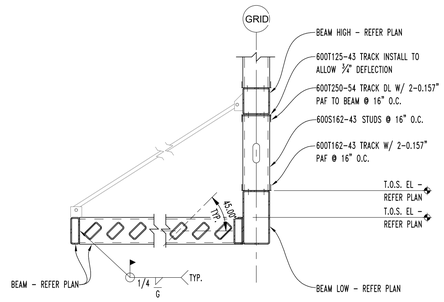
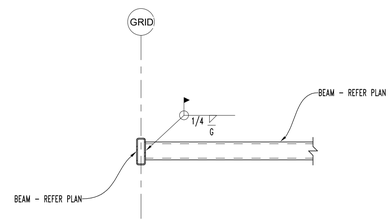


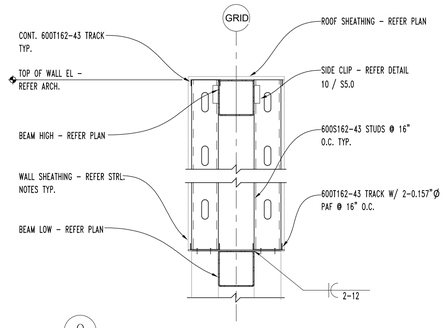
6 SCALE: 3/4" = 1'-0"



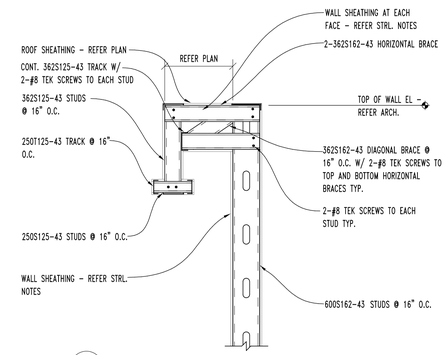
7 SCALE: 3/4" = 1'-0"



8 SCALE: 3/4" = 1'-0"



9 SCALE: 3/4" = 1'-0"



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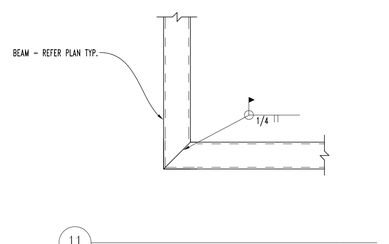

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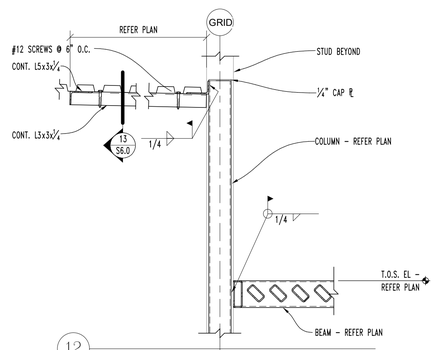

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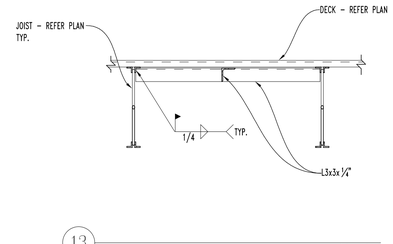

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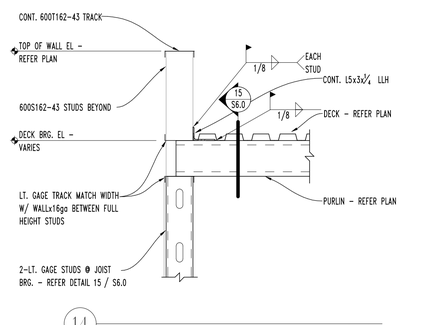

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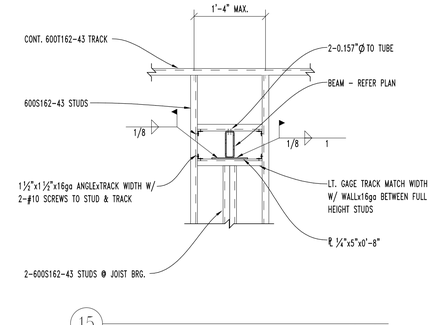

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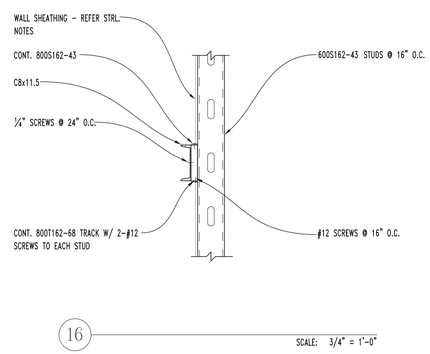

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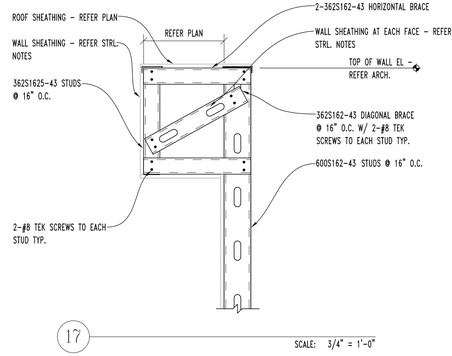

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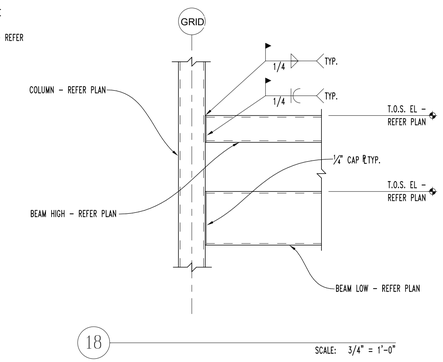

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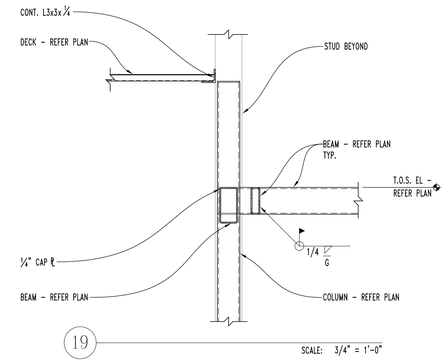

19 SCALE: 3/4" = 1'-0"

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MICHAEL A. STUBBS 92018 LICENSED PROFESSIONAL ENGINEER
08/14/23

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AT
403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

1810 Wyoming ave
el paso, tx 79903
ph: 915.544.8082
fax: 915.534.8083
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FRAMING DETAILS

COMMISSION No. 23-010
DATE: 08/14/2023
REVISIONS
Description Date

SHEET: **S6.0**
OF

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310 N. MESA
SUITE 800
EL PASO, TX 79901
PH: (915) 228-3488
TBPE FIRM NO.: F-12826
SEI JOB NO.:M35-006

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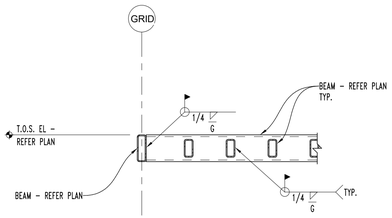

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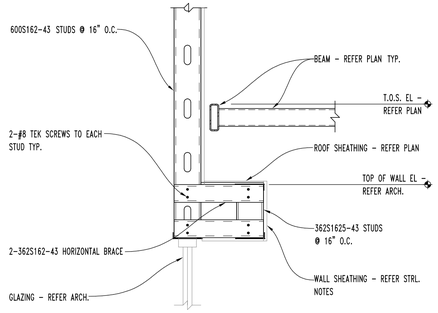

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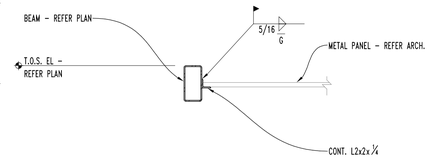

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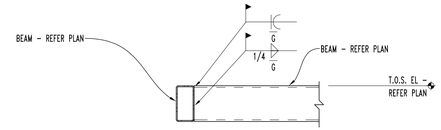

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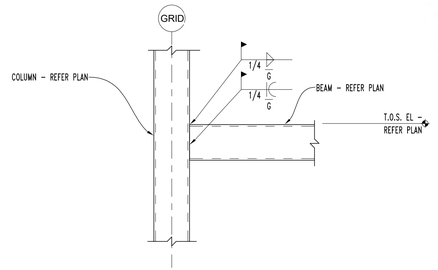

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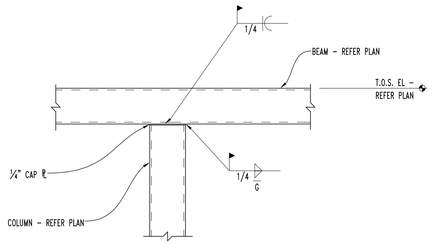

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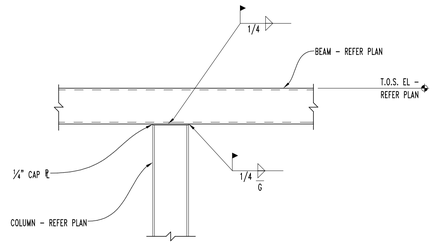

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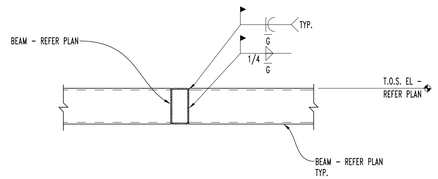

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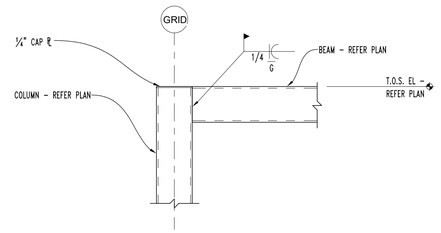

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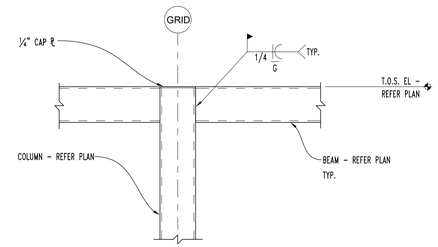

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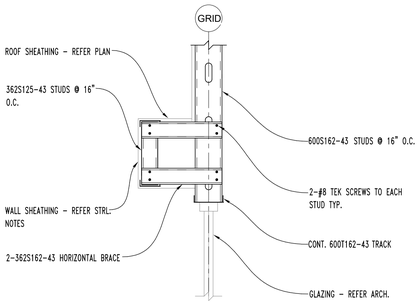

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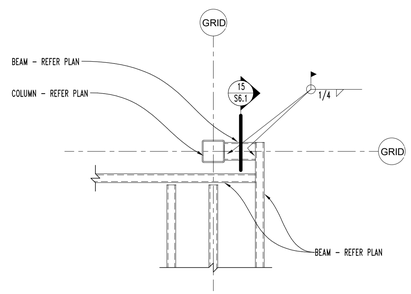

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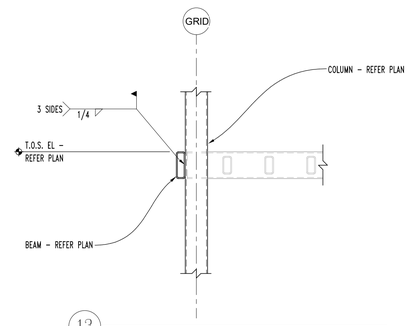

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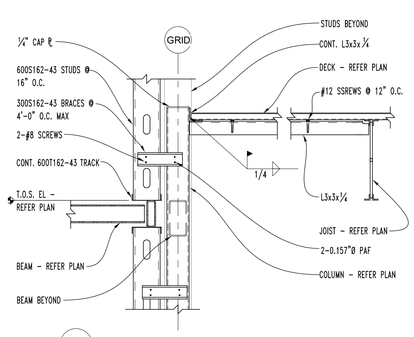

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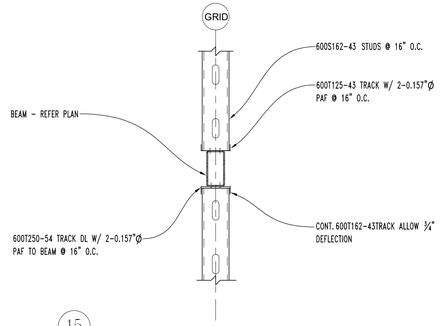

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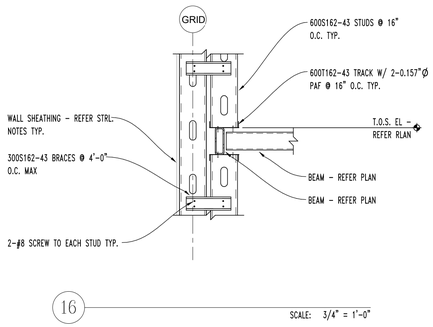

16 SCALE: 3/4" = 1'-0"

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EL PASO, TX 79901
PH: (915) 228-3488
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FRAMING DETAILS

COMMISSION No. 23-010
DATE: 08/14/2023
REVISIONS
Description Date

SHEET: S6.1
OF

AIR CONDITIONING UNIT SCHEDULE

MARK	MFGR.	MODEL	CFM	ESP	COOLING MBH		COIL ENT. AIR		AMB	EER	HEATING MBH			MCA	MOP	VOLTS	PH	HP	WT	REMARKS
					TOTAL	SENS.	db°F	wb°F	db°F		INPUT	OUTPUT	FUEL							
ACU	FUTURE ROOF TOP UNIT.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	(+/-) 900#	CONTRACTOR SHALL PROVIDE AND INSTALL A SLOPED INSULATED UNIVERSAL 14". NON ADJUSTABLE FACTORY ROOF CURB YORK #AP560ZJ36APCRB, NO SUBSTITUTIONS, AND COVERED WITH 20 GAUGE SHEET METAL.

AIR CONDITIONING UNIT SCHEDULE

MARK	MFGR.	MODEL	CFM	ESP	COOLING MBH		COIL ENT. AIR		AMB	EER	HEATING MBH			MCA	MOP	VOLTS	PH	FAN HP	WT	REMARKS
					TOTAL	SENS.	db°F	wb°F	db°F		INPUT	OUTPUT	FUEL							
ACU-1	TRANE	YHC048F3	1920	0.4"	46	38	78	62	100	13.5	60	49	NG	28	40	208	3	1	948	W/ ROOF CURB ADAPTER, HAIL GUARD, DRY BULB 100% ECONOMIZER W/BAROMETRIC RELIEF MINIMUM 219 CFM O.A. DUCT SMOKE DETECTOR WITH PROGRAMMABLE T-STAT.
ACU-2	TRANE	YHC048F3	1920	0.4"	46	38	78	62	100	13.5	60	49	NG	28	40	208	3	1	948	W/ ROOF CURB ADAPTER, HAIL GUARD, DRY BULB 100% ECONOMIZER W/BAROMETRIC RELIEF MINIMUM 219 CFM O.A. DUCT SMOKE DETECTOR WITH PROGRAMMABLE T-STAT.

EXHAUST FAN SCHEDULE

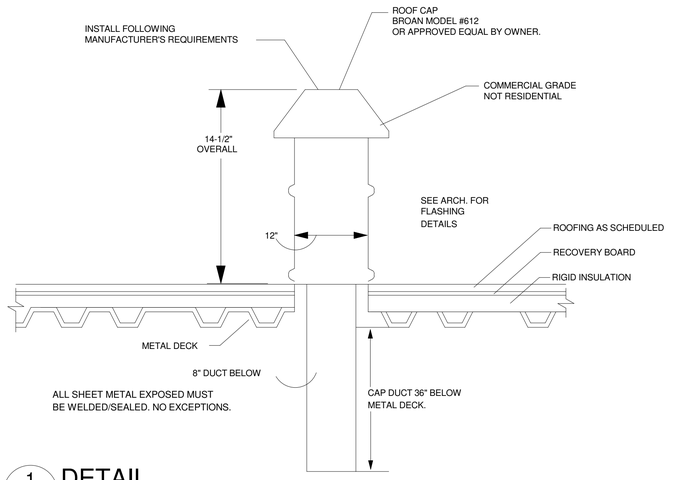
MARK	MFGR.	MODEL	CFM	ESP	MOTOR				WT	REMARKS
					HP	V	PH	NO.SPDS.		
EF-1	COOK	GC-148	100	0.25"	33.7 W	120	1	1	12	SURFACE MOUNTED EXHAUSTER, W/ GOOSENECK, INTERLOCK W/ LIGHTS

DIFFUSER SCHEDULE

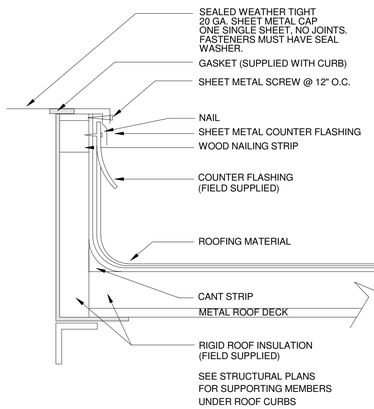
MARK	MFGR.	MODEL	REMARKS
A	NAILOR	6200	4-WAY SUPPLY, LAY-IN, ALUMINUM CONSTRUCTION, ALUMINUM OBD, COLOR WHITE.
B	NAILOR	51ECA	CUBE CORE RETURN AIR GRILLE, ALUMINUM CONTRUCTION, LAY-IN COLOR WHITE.

MECHANICAL LEGEND

	NEW
DUCTWORK (INSULATED)	
DUCTWORK (UNINSULATED)	
MECHANICAL EQUIPMENT ON ROOF	
MECHANICAL EQUIPMENT BELOW ROOF	
FLEXIBLE DUCT	
AIR CONDITIONING UNIT	ACU
EXHAUST FAN	EF
THERMOSTAT	T
DIFFUSER	MARK — SIZE CFM
KEYED SYMBOL	PARTIAL NO. / SHEET NO.



1 M1.0 DETAIL
SCALE: NTS



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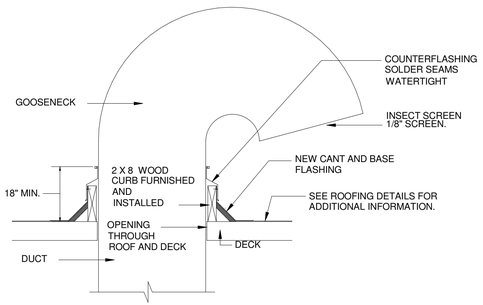

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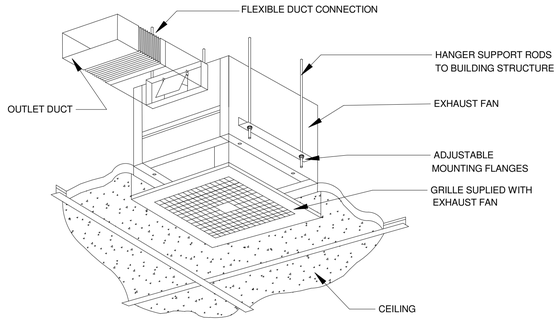

4 M1.0 EXHAUST FAN DETAIL
SCALE: NTS

HVAC GENERAL NOTES

1. COMPLY WITH ALL LOCAL, COUNTY, STATE AND FEDERAL CODES, ORDINANCE, RULES AND REGULATIONS.
2. CONTRACTOR TO VERIFY LOCATION OF ALL AIR EQUIPMENT AND ROOF CURBS SO THAT NO INTERFERENCES ARE ENCOUNTERED WITH OTHER EQUIPMENT OR WITH THE STRUCTURAL ELEMENTS. NEED TO COORDINATE WITH ELECTRICAL AND ROOFING CONTRACTORS PRIOR TO ANY INSTALLATION.
3. ROOF CURB SUPPLY AND RETURN OPENINGS MUST DROP BETWEEN JOISTS (VERIFY BEFORE SETTING CURBS).
4. ALL MECHANICAL WORK MUST BE COORDINATED WITH ARCHITECT AND ELECTRICIAN BEFORE INSTALLATION.
5. KEEP ALL FLUES AND EXHAUST CAPS A MINIMUM OF 10' AWAY OR 2' ABOVE ALL FRESH AIR INTAKES ON A/C UNITS AND ALL VERTICAL PORTIONS OF BUILDING.
6. CONTRACTOR TO SHIM-LEVEL A/C CURBS.

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1810 Wyoming ave
el paso, tx 79903
ph:915-534-8082
fax:915-534-8083
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JOSE A. BERNAL 90861 LICENSED PROFESSIONAL ENGINEER

FLUID SYSTEMS, INC.
CONSULTING MECHANICAL ENGINEERS
REGISTRATION NUMBER: F-1161
12244 RATHMORE DR. • EL PASO, TEXAS 79928
OFFICE: (915) 856-9420

CONSTRUCTION DOCUMENTS

LEGEND, NOTES, SCHEDULES AND DETAILS

COMMISSION No. 23-010

DATE: 08/14/23

REVISIONS

#	Description	Date

SHEET: **M1.0**

1 OF 6

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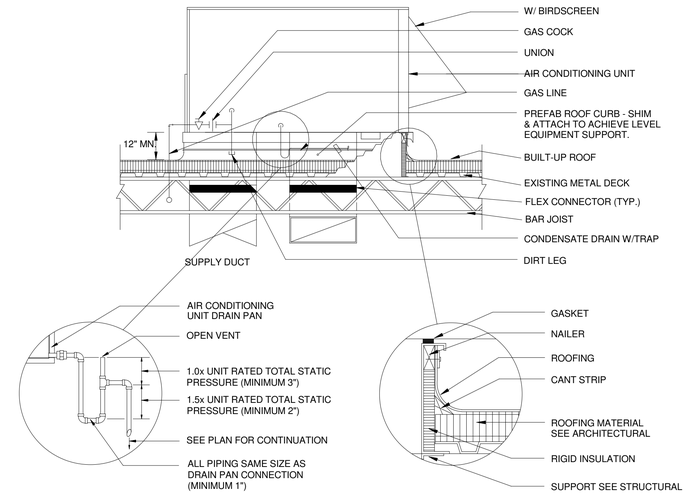
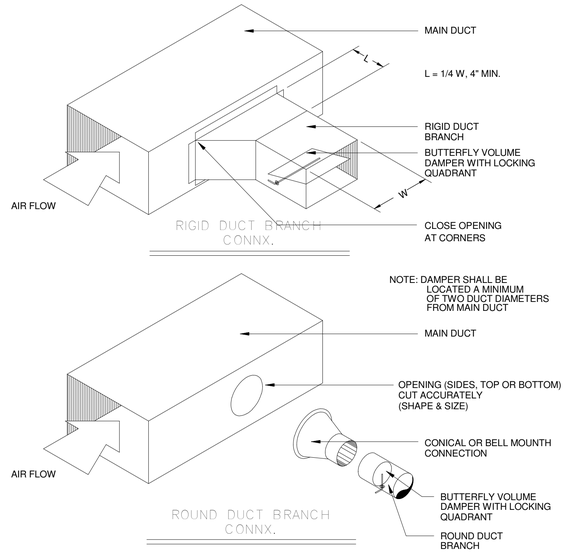


1 AIR CONDITIONING UNIT DETAIL

M1.1 SCALE: NTS



2 DUCT BRANCH DETAIL

M1.1 SCALE: NTS

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MECHANICAL DETAILS

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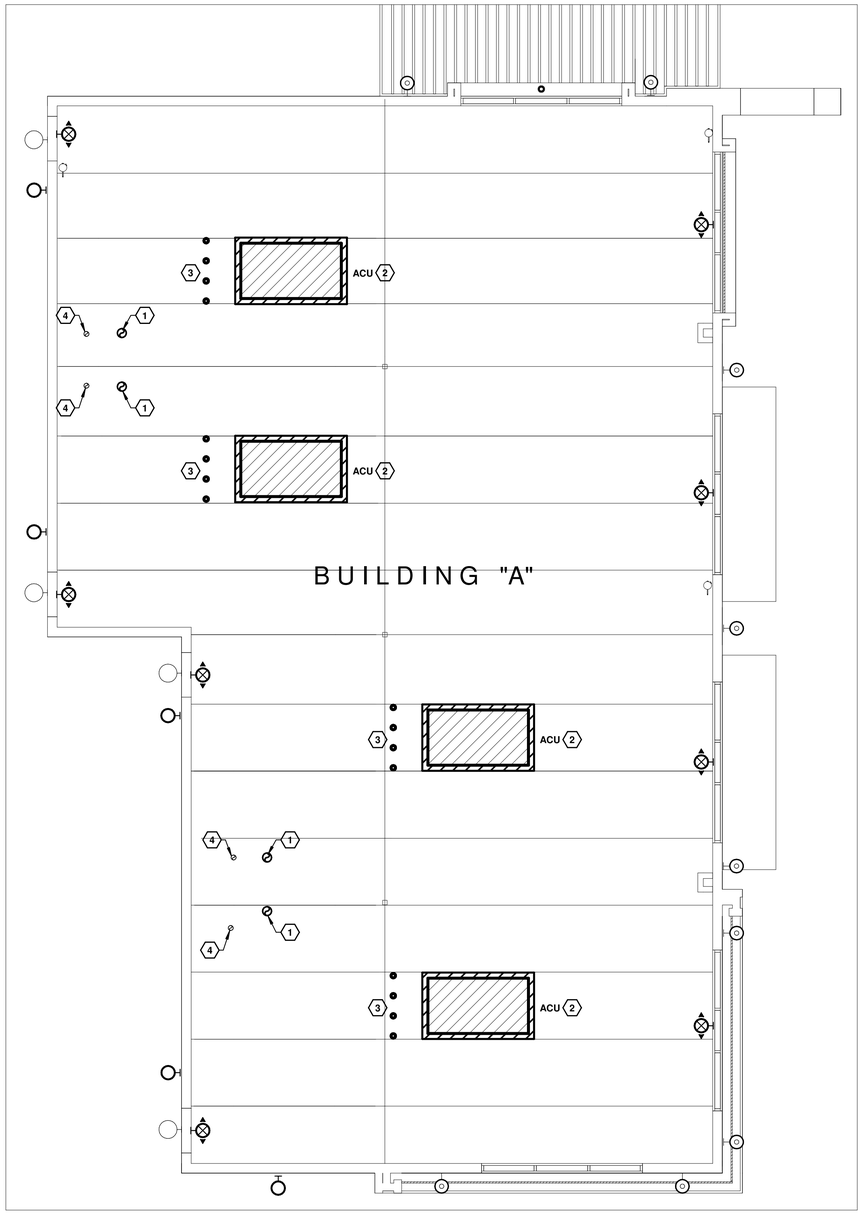
2 OF 6



MECHANICAL FLOOR PLAN - BLDG. "A"
3/16" = 1'-0"

KEYED NOTES

1. 8" EXHAUST DUCT UP THRU ROOF AND WEATHER CAP WITH INSECT SCREEN. STUB DOWN IN CEILING SPACE. SECURE TO STRUCTURE. KEEP ALL FLUES AND EXHAUST CAPS A MINIMUM OF 10' AWAY OR 2' ABOVE ALL FRESH AIR INTAKES ON A/C UNITS AND ALL VERTICAL PORTIONS OF BUILDING.
2. PROVIDE YORK # AP560ZJ36APCRB NON ADJUSTABLE ROOF CURB WITH SHEET METAL CAP AS DETAILED. ROOF CURB USE WITH YORK 3-6 TON PACKAGED ROOFTOP AIR CONDITIONING UNITS, NO SUBSTITUTIONS. MECH. CONTRACTOR SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
3. THE CONTRACTOR SHALL PROVIDE 4 INDIVIDUAL PENETRATIONS. SEE DETAIL 3/P1.1.
4. PLUMBING VENT RISER. SEE PLUMBING AND ARCHITECTURAL FOR SIZE AND LOCATION.

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JOSE A. BERNAL
90861
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

FLUID SYSTEMS, INC.
CONSULTING MECHANICAL ENGINEERS
REGISTRATION NUMBER: F-1161
12244 RATHMORE DR. • EL PASO, TEXAS 79928
OFFICE: (915) 856-9420

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MECHANICAL FLOOR PLAN - BLDG. "A"

COMMISSION No. 23-010
DATE: 08/14/23
REVISIONS
Description Date

SHEET: **M2.0**
3 OF 6

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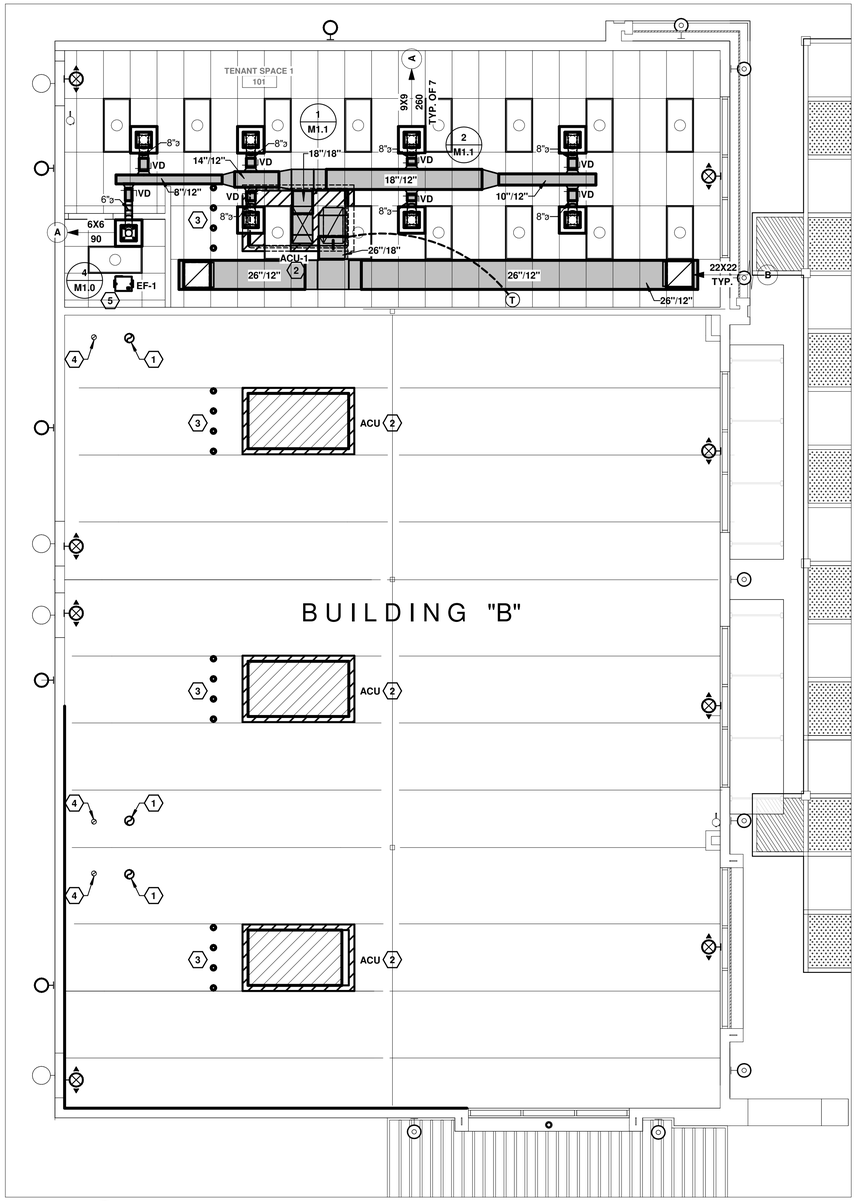

MECHANICAL FLOOR PLAN - BLDG. "B"

3/16" = 1'-0"

KEYED NOTES

1. 8" EXHAUST DUCT UP THRU ROOF AND WEATHER CAP WITH INSECT SCREEN. STUB DOWN IN CEILING SPACE. SECURE TO STRUCTURE. KEEP ALL FLUES AND EXHAUST CAPS A MINIMUM OF 10' AWAY OR 2' ABOVE ALL FRESH AIR INTAKES ON A/C UNITS AND ALL VERTICAL PORTIONS OF BUILDING.
2. PROVIDE YORK # AP560ZJ36APCRB NON ADJUSTABLE ROOF CURB WITH SHEET METAL CAP AS DETAILED. ROOF CURB USE WITH YORK 3-6 TON PACKAGED ROOFTOP AIR CONDITIONING UNITS, NO SUBSTITUTIONS. MECH. CONTRACTOR SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
3. THE CONTRACTOR SHALL PROVIDE 4 INDIVIDUAL PENETRATIONS. SEE DETAIL 3/P1.1.
4. PLUMBING VENT RISER. SEE PLUMBING AND ARCHITECTURAL FOR SIZE AND LOCATION.
5. PROVIDE A 6" EXHAUST DUCT THRU ROOF WITH GOOSENECK AND INSECT SCREEN.

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CONSULTING MECHANICAL ENGINEERS
REGISTRATION NUMBER: F-1161
12244 RATHMORE DR. • EL PASO, TEXAS 79928
OFFICE: (915) 856-9420

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403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

1810 Wyoming ave
el paso, tx 79903
ph:915.534.8082
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MECHANICAL FLOOR PLAN - BLDG. "B"

COMMISSION No. 23-010

DATE: 08/14/23

REVISIONS

#	Description	Date

SHEET: **M2.1**

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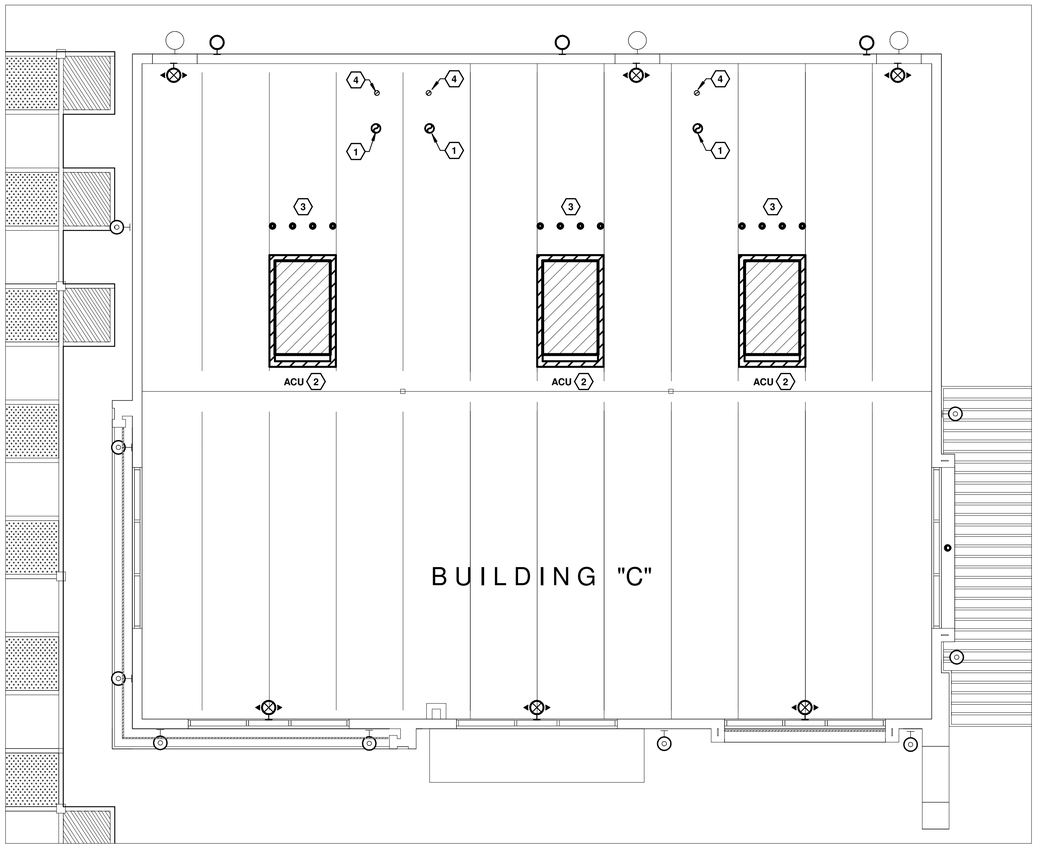

MECHANICAL FLOOR PLAN - BLDG. "C"
3/16" = 1'-0"

KEYED NOTES

1. 8" EXHAUST DUCT UP THRU ROOF AND WEATHER CAP WITH INSECT SCREEN. STUB DOWN IN CEILING SPACE. SECURE TO STRUCTURE. KEEP ALL FLUES AND EXHAUST CAPS A MINIMUM OF 10' AWAY OR 2' ABOVE ALL FRESH AIR INTAKES ON A/C UNITS AND ALL VERTICAL PORTIONS OF BUILDING.
2. PROVIDE YORK # AP560ZJ36APCRB NON ADJUSTABLE ROOF CURB WITH SHEET METAL CAP AS DETAILED. ROOF CURB USE WITH YORK 3-6 TON PACKAGED ROOFTOP AIR CONDITIONING UNITS, NO SUBSTITUTIONS. MECH. CONTRACTOR SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
3. THE CONTRACTOR SHALL PROVIDE 4 INDIVIDUAL PENETRATIONS. SEE DETAIL 3/P1.1.
4. PLUMBING VENT RISER. SEE PLUMBING AND ARCHITECTURAL FOR SIZE AND LOCATION.

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FLUID SYSTEMS, INC.
CONSULTING MECHANICAL ENGINEERS
REGISTRATION NUMBER: F-1161
12244 RATHMORE DR. • EL PASO, TEXAS 79928
OFFICE: (915) 856-9420

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RETAIL CENTER
403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

1810 Wyoming ave
el paso, tx 79903
ph:915.534.8082
fax:915.534.8083
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MECHANICAL FLOOR PLAN - BLDG. "C"

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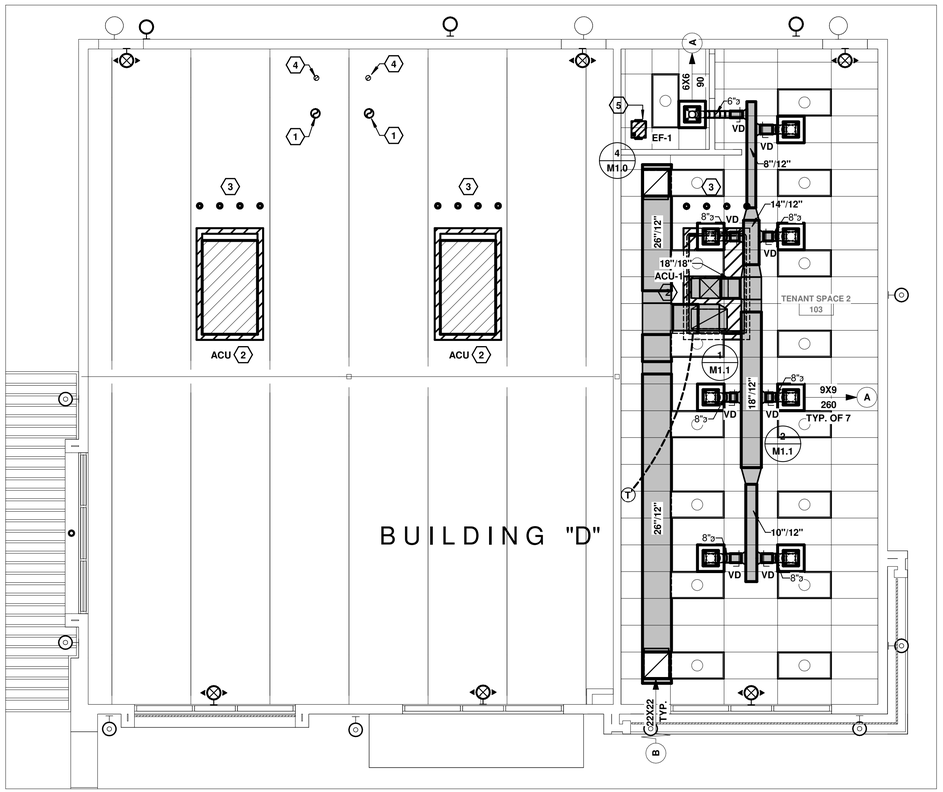
5 OF 6



MECHANICAL FLOOR PLAN - BLDG. "D"

3/16" = 1'-0"

KEYED NOTES

1. 8" EXHAUST DUCT UP THRU ROOF AND WEATHER CAP WITH INSECT SCREEN. STUB DOWN IN CEILING SPACE. SECURE TO STRUCTURE. KEEP ALL FLUES AND EXHAUST CAPS A MINIMUM OF 10' AWAY OR 2' ABOVE ALL FRESH AIR INTAKES ON A/C UNITS AND ALL VERTICAL PORTIONS OF BUILDING.
2. PROVIDE YORK # AP560ZJ36APCRB NON ADJUSTABLE ROOF CURB WITH SHEET METAL CAP AS DETAILED. ROOF CURB USE WITH YORK 3-6 TON PACKAGED ROOFTOP AIR CONDITIONING UNITS, NO SUBSTITUTIONS. MECH. CONTRACTOR SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.
3. THE CONTRACTOR SHALL PROVIDE 4 INDIVIDUAL PENETRATIONS. SEE DETAIL 3/P1.1.
4. PLUMBING VENT RISER. SEE PLUMBING AND ARCHITECTURAL FOR SIZE AND LOCATION.
5. PROVIDE A 6" EXHAUST DUCT THRU ROOF WITH GOOSENECK AND INSECT SCREEN.

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FLUID SYSTEMS, INC.
CONSULTING MECHANICAL ENGINEERS
REGISTRATION NUMBER: F-1161
12244 RATHMORE DR. • EL PASO, TEXAS 79928
OFFICE: (915) 856-9420

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403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

1810 Wyoming ave
el paso, tx 79903
ph:915.534.8082
fax:915.534.8083
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MECHANICAL FLOOR PLAN - BLDG. "D"

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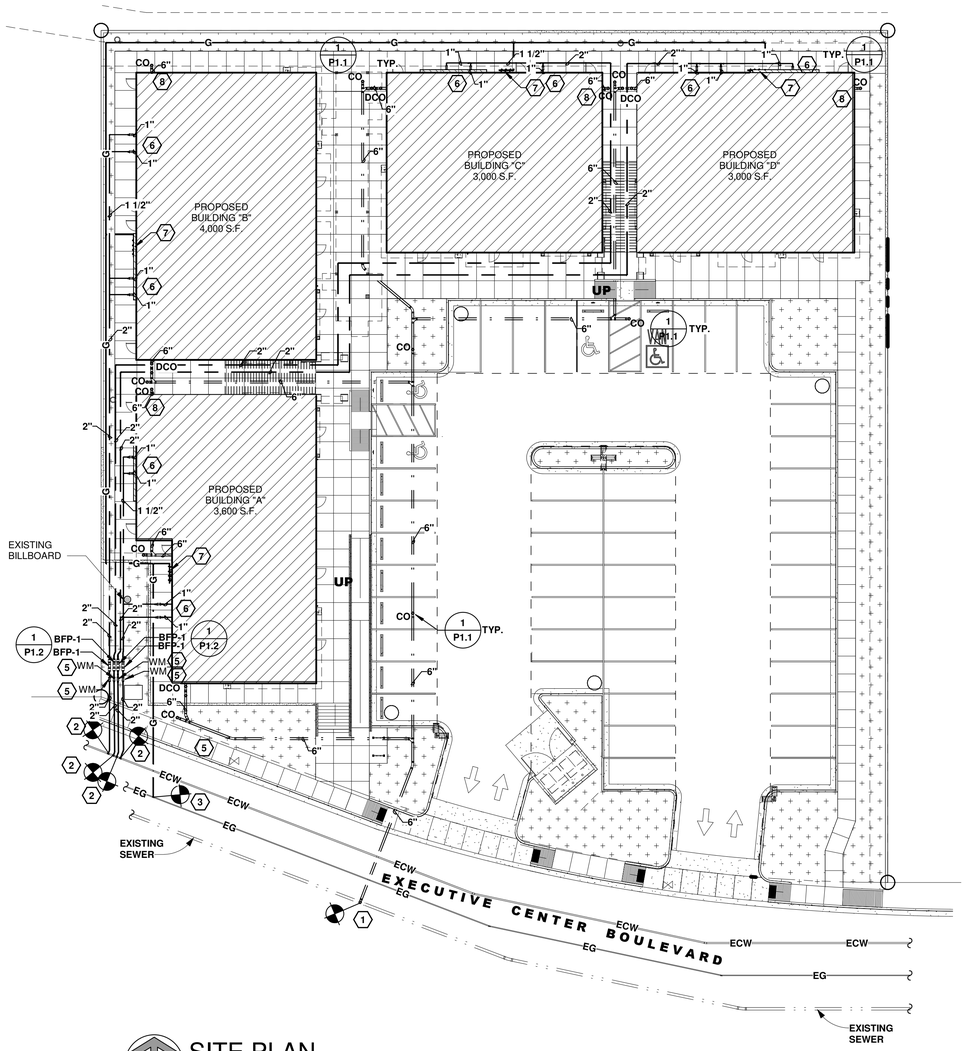

SITE PLAN
1" = 20'-0"

KEYED NOTES

1. CONNECT NEW WASTE LINE TO EXISTING SEWER LINE. FIELD VERIFY EXACT LOCATION. COORDINATE WITH E.P.W.U. PRIOR TO CONNECTION.
2. EXTEND WATER SUPPLIES TO NEW BUILDING. COORDINATE WITH E.P.W.U. PRIOR TO CONNECTION.
3. EXTEND NEW GAS SERVICE TO BUILDING. COORDINATE WITH TEXAS GAS SERVICE. PROVIDE OFFSETS AS REQUIRED.
4. PLUMBING CONTRACTOR TO PROVIDE 1" BFP FOR LANDSCAPING. FIELD COORDINATE WITH LANDSCAPING COMPANY. SEE IRRIGATION DRAWING.
5. PLUMBING CONTRACTOR TO PROVIDE 2 INCH DOMESTIC METER SERVICE AND WATER LINE WITH BACK FLOW PREVENTER. EXTEND TO BUILDING.
6. INSTALL 1 INCH SUB WATER METER IN POLY METER BOX. WATER METER TO BE M&E MJ50 1 1/2 INCH.
7. TX GAS LINE TO SIZE & INSTALL NEW RISER FOR NEW GAS METER BANK.
8. PLUMBING CONTRACTOR TO START SEWER LINE 3+ft. BELOW FINISH FLOOR. FIELD COORDINATE WITH STUB OUT TO VERIFY IT IS DEEP ENOUGH TO START 6in. SEWER LINE AT THE ELEVATION BELOW FINSH FLOOR INVERT PRIOR TO STARTING WORK.

PLUMBING GENERAL NOTES

1. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING AND PROPOSED UTILITIES, AND SITE CONDITIONS PRIOR TO BEGINNING WORK.
2. PROVIDE DIELECTRIC INSULATION FOR COPPER PIPE ANYWHERE IT CONTACTS DISSIMILAR METAL. THIS INCLUDES THE WATER HEATER CONNECTIONS.
3. ALL PLUMBING FIXTURES SHALL MEET AND BE INSTALLED AT DIMENSIONS REQUIRED BY TEXAS ACCESSIBILITY STANDARDS FOR HANDICAPPED PERSONS.
4. CONDENSATE DRAIN LINES TO BE SCHEDULE 40 "PVC" DWV.
5. ALL SEWER VENTS THRU ROOF (VTR) SHALL BE NO CLOSER THAN 5 FT. TO EDGE OF ROOF AND A MINIMUM OF 10 FT. FROM ANY AIR INTAKE.
6. ALL SEWER, WASTE, AND VENT PIPING SHALL BE SCHEDULE 40 PVC.
7. DOMESTIC COLD WATER LINES ABOVE GROUND SHALL BE SOLDERED TYPE "L" COPPER.
8. ALL GAS LINES SHALL BE SCHEDULE 40 BLACK STEEL, WELDED OR THREADED JOINTS.
9. SEE ARCHITECTURAL DRAWINGS FOR MORE INFORMATION ON CONCRETE AND PAVEMENT PATCH DETAILS.
10. DOMESTIC COLD WATER LINES BELOW GROUND SHALL BE PEX.

LEGEND

	NEW	EXISTING
SEWER (BURIED)		
GREASE WASTE	GW	EGW
VENT LINE		EV
COLD WATER LINE		ECW
HOT WATER LINE		EHW
MEDIUM PRESSURE GAS LINE	MPG	EMPG
GAS LINE	G	EG
ROOF DRAIN LEADER	RD	ERD
OVER FLOW	OF	EOF
FIRE LINE	F	EF
MECHANICAL EQUIPMENT ON ROOF		
WATER CLOSET	WC	WC-E
WATER CLOSET (HANDICAP)	WC-H	WC-HE
LAVATORY	L	EL
LAVATORY (HANDICAPPED)	L-H	EL-H
SINK	S	ES
ELECTRIC WATER COOLER	EWC	EWC-E
ELECTRIC WATER COOLER (HANDICAP)	EWC-H	EWC-H
MOP SERVICE BASIN	MSB	EMSB
WALL CLEANOUT	WCO	EWCO
CLEANOUT	CO	ECO
HOSE BIBB	HB	EHB
WALL HYDRANT	WHD	EWHD
WATER HEATER	WH	EWH
PRESSURE REDUCING VALVE	PRV	EPRV
ROOF DRAIN	RD	ERD
OVERFLOW	OF	EOF
BACKFLOW PREVENTER	BFP	EBFP
DOWNSPOUT NOZZLE	DSN	EDSN
AIR CONDITIONING UNIT	ACU	EACU
VENT THRU ROOF	VTR	EVTR
NEW WORK INTERFACE		
KEYED SYMBOL	PARTIAL NO. / SHEET NO.	
FIRE HYDRANT	FH	EFH

IMPORTANT NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND ELEVATIONS ON SITE AND MUST CONTACT THE DESIGN ENGINEER, ARCHITECT AND DEVELOPER TO REPORT ANY DISCREPANCIES, OMISSIONS, AND ERRORS ON PLANS PRIOR TO COMMENCING OR CONTINUING WORK.
2. DESIGN WAS BASED ON EXISTING CONDITIONS AND RECORD DOCUMENTS FOR PDEMUD1, GENERAL CONTRACTOR MUST VERIFY EXISTING ELEVATIONS AT MANHOLES AND CONNECTION PINT AND REPORT TO DESIGN ENGINEER, ARCHITECT, AND DEVELOPER IN ANY DISCREPANCIES, OMISSIONS, AND ERRORS ON PLANS PRIOR TO COMMENCING OR CONTINUING WORK.
3. MECHANICAL ENGINEER MUST REVIEW AND APPROVE PROPOSED INVERT ELEVATIONS AND SLOPES PRIOR TO COMMENCING OR CONTINUING WORK.

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FLUID SYSTEMS, INC.
CONSULTING MECHANICAL ENGINEERS
REGISTRATION NUMBER: F-1161
12244 RATHMORE DR. • EL PASO, TEXAS 79928
OFFICE: (915) 856-9420

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el paso, tx 79903
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SITE PLAN AND NOTES

COMMISSION No. 23-010
DATE: 08/14/23
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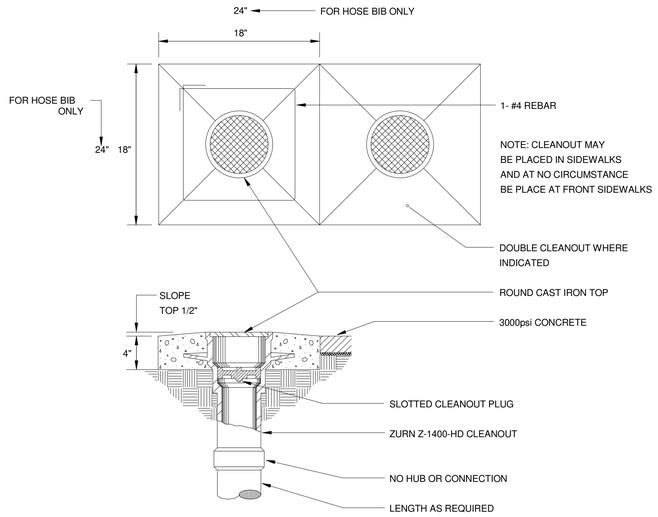
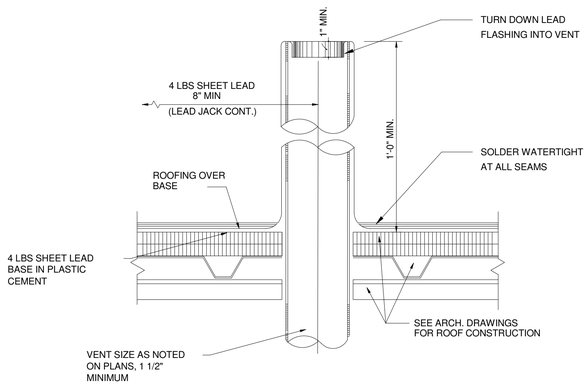


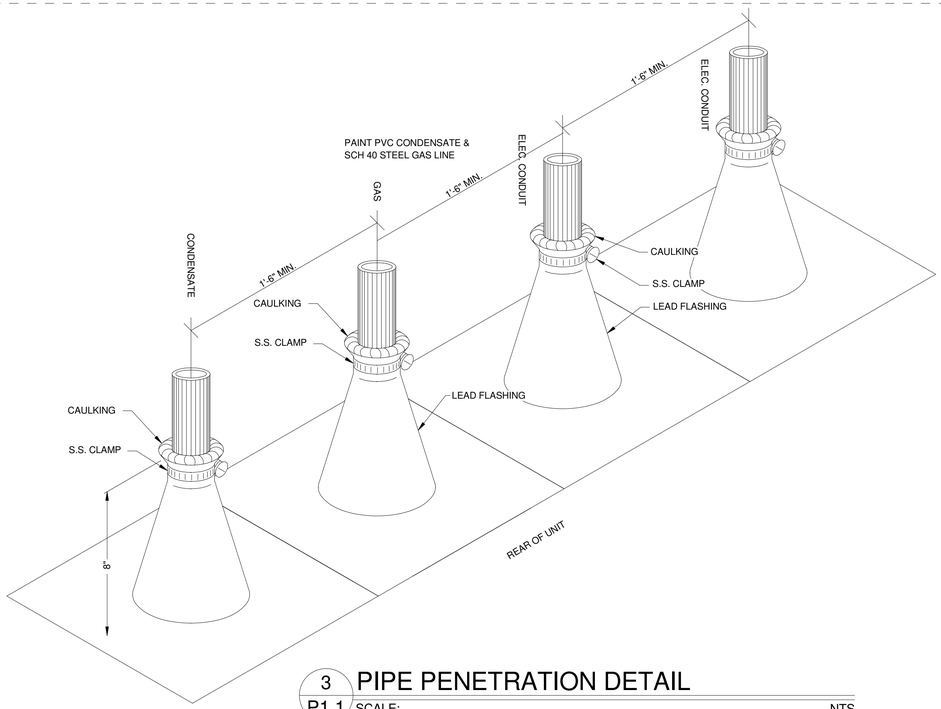
1 P1.1 CLEANOUT DETAIL

SCALE: NTS



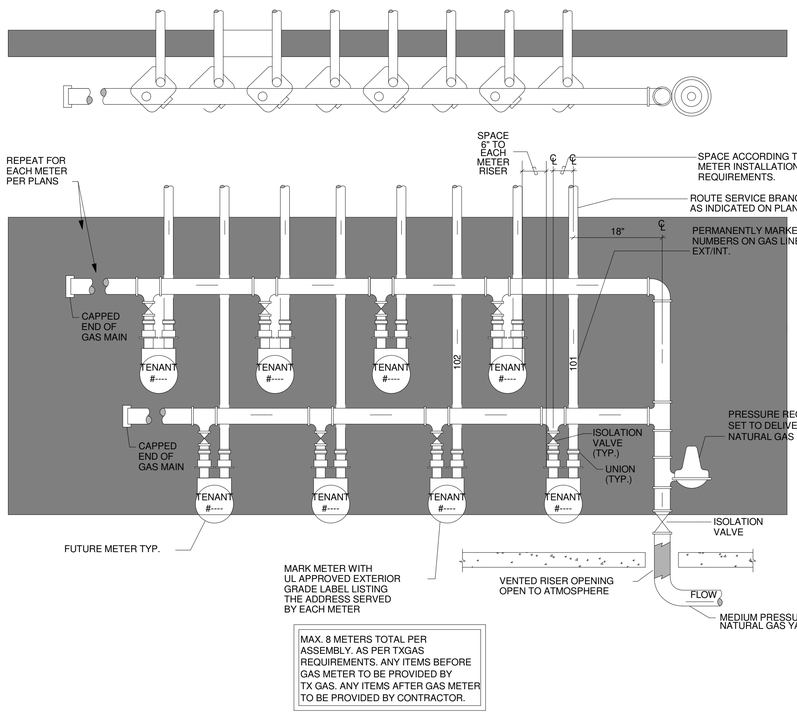
2 P1.1 VENT THRU ROOF SCHEMATIC

SCALE: NTS



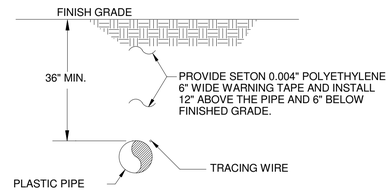
3 P1.1 PIPE PENETRATION DETAIL

SCALE: NTS



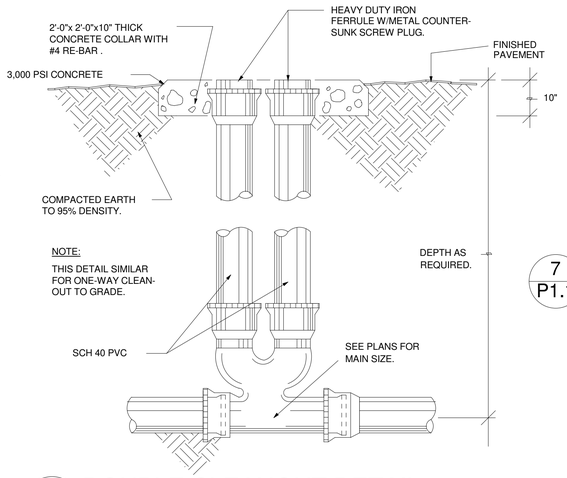
5 P1.1 GAS METER/MANIFOLD

SCALE: N.T.S.



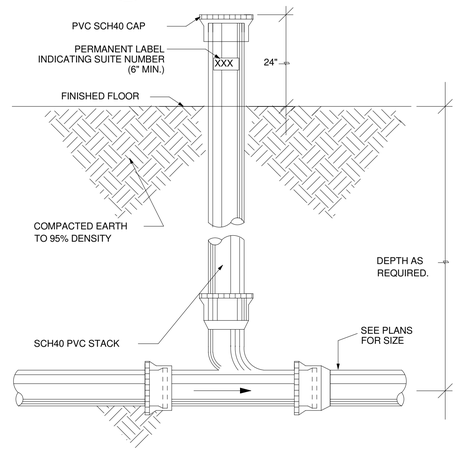
4 P1.1 UNDERGROUND PLASTIC PIPE DETAIL

SCALE: NOT TO SCALE



6 P1.1 DOUBLE CLEANOUT DETAIL

SCALE: NTS



7 P1.1 STUBOUT TO GRADE DETAIL AT EACH SPACE

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PLUMBING DETAILS

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FLUID SYSTEMS, INC.
CONSULTING MECHANICAL ENGINEERS
REGISTRATION NUMBER: F-1161
12244 RATHMORE DR. • EL PASO, TEXAS 79928
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CONSTRUCTION DOCUMENTS

COMMISSION No. 23-010

DATE: 08/14/23

REVISIONS

#	Description	Date

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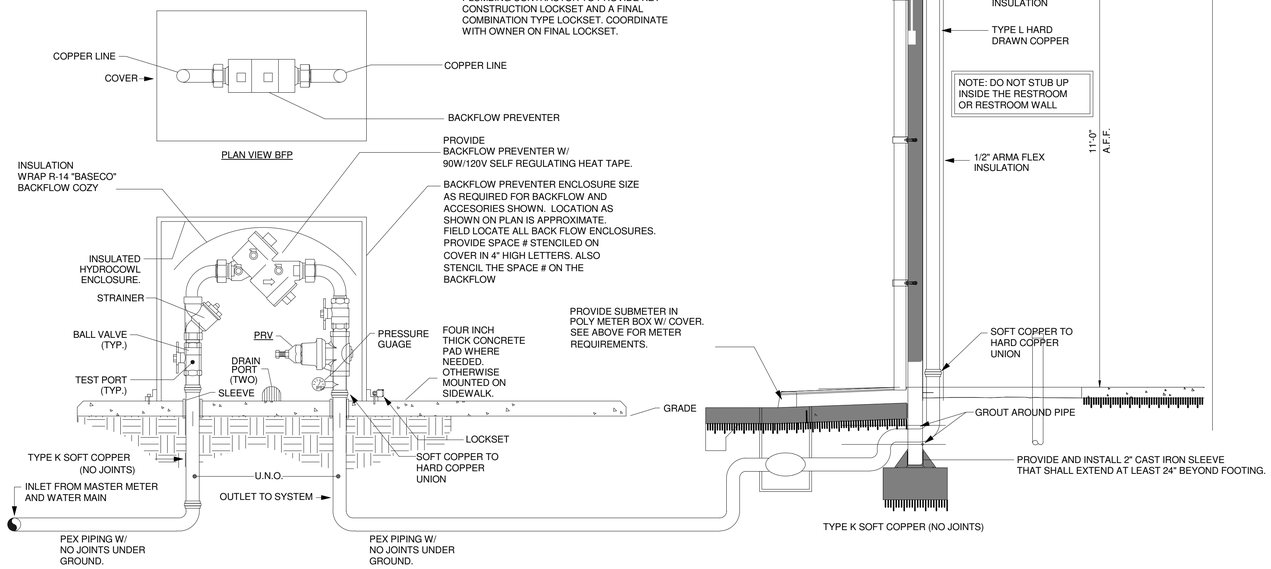
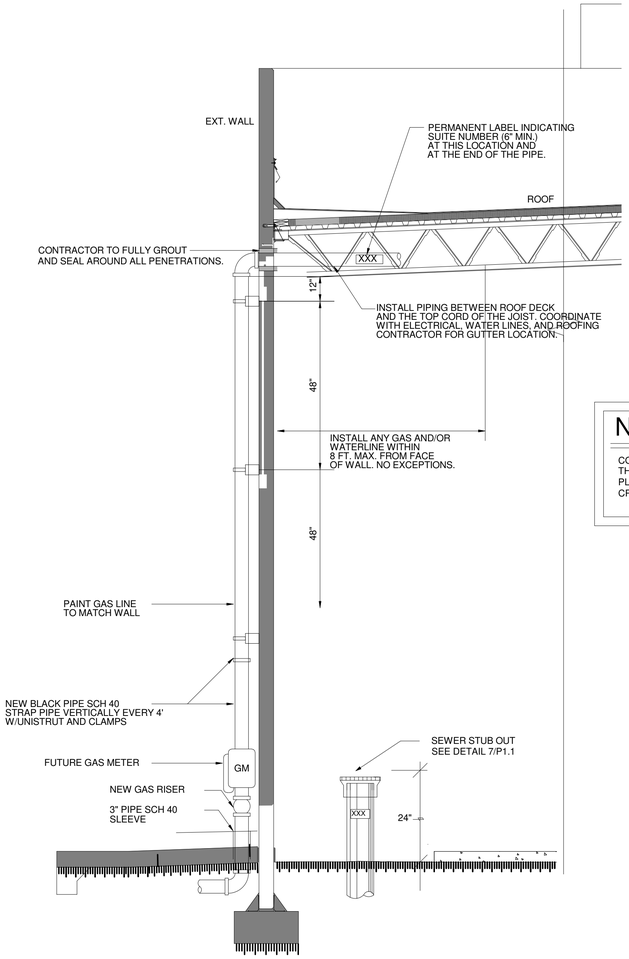
BASE BID:
PROVIDE A MUELLER MI.NET SYSTEM WITH MUELLER 420/452 BRONZE RDM, TWO-WAY RADIO WATER METERS IN POLY METER BOX. SIZE AS SHOWN ON DRAWINGS. PROVIDE MI.NODE M INSTALLATION TOOL, SOFTWARE, ONE DAY OF TRAINING. ALL NECESSARY HARDWARE TO OPERATE/READ SYSTEM.

ALTERNATE BID:
PROVIDEA DIRECT READ MUELLER 420/452 BRONZE POSITIVE DISPLACEMENT WATER METER IN POLY METER BOX. SIZE AS SHOWN ON DRAWINGS.



1 P1.2 INCOMING WATER LINE

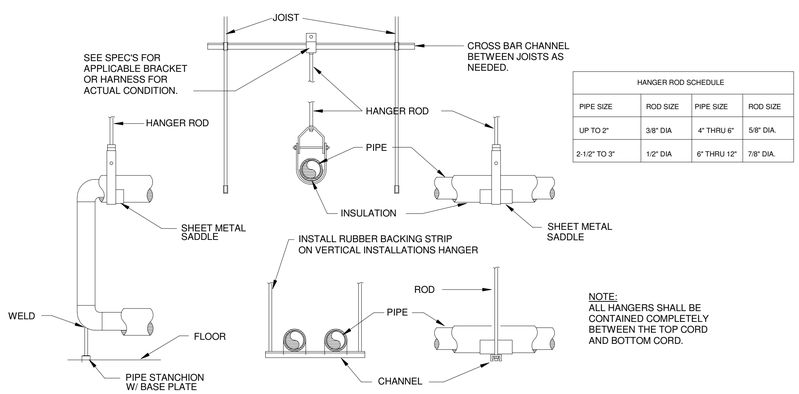
SCALE: NTS



2 P1.2 GAS LINE SERVICE CROSS SECTION

SCALE: NTS

NOTE:
CONTRACTOR SHALL TAG ALL DOMESTIC PIPES AND/OR LINES THAT ARE INSTALLED AND VERIFY THEY ARE PROPERLY PLACED TO THE RESPECTIVE SUITE. NO LINE SHOULD BE CRISS-CROSSED.



HANGER ROD SCHEDULE			
PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE
UP TO 2"	3/8" DIA	4" THRU 6"	5/8" DIA.
2-1/2" TO 3"	1/2" DIA	6" THRU 12"	7/8" DIA.

NOTE:
ALL HANGERS SHALL BE CONTAINED COMPLETELY BETWEEN THE TOP CORD AND BOTTOM CORD.

3 P1.2 TYPICAL PIPE HANGER DETAIL

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PLUMBING DETAILS

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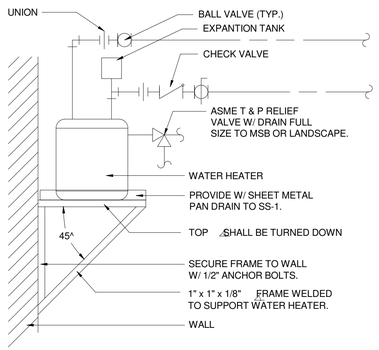
PLUMBING FIXTURE SCHEDULE

MARK	MFGR.	NAME	MODEL	H	C	D	V	E	ACCESSORIES
WC-1H	KOHLER		K3988	-	1/2"	3"	2"	-	TANK TYPE, SEAT W/ COVER, DUAL FLUSH
L-1H	AMERICAN STANDARD		0356.015	1/2"	1/2"	2"	1-1/2"	-	ZURN Z831R6-XL FAUCET, 2.2 GPM, McGUIRE 155A DRAIN, DEARBORN BRASS 751 P-TRAP, T&S B-1342 ANGLE LOOSE KEY STOPS SKAL GUARD, OFFSET LAV STRAINER, ZURN Z-1231 CONCEALED ARM CARRIER. W/TEMPERATURE MIXING VALVE, SEE ARCH. FOR MOUNTING HEIGHT.
FD-1	ZURN		ZN-415-B	-	-	3"	2"	-	C. I. BODY, 7"~, TYPE "B" STRAINER W/ ATP $ TRAP GUARD.
ATP	PPP		500	-	1/2"	-	-	-	INSTALL ON ALL FLOOR DRAINS, AND FLOOR SINKS, AND MSB'S.
HB-1	WOODFORD		24P-1/2	-	1/2"	-	-	-	W/ VACUUM BREAKER, CHROME FINISH, LOOSE KEY HANDLE.
MSB-1	FIAT		TSB100	1/2"	1/2"	3"	2"	-	PROVIDE WITH FIAT 830-AA FAUCET, 832-AA HOSE AND BRACKET, 889 MOP HANGER. TRAP PRIMER, AND TRAP GUARD.
WCO	ZURN		Z-1468	-	AS SHOWN			-	WITH STAINLESS STEEL ACCESS COVER.
CO	ZURN		ZN-1400	-	AS SHOWN			-	WITH POLISHED NICKEL BRONZE TOP.
WHA-1	ZURN	SHOKTROL	Z-1700	-	-	-	-	-	INSTALL AS REQUIRED.
EWC-1H	HALSEY TAYLOR		HTHB-HVRGRN8BL-WF	-	1/2"	2"	1-1/2"	YES	8.0 GPH OF 50°F WATER @ 90°F AMBIENT, McGUIRE 155A DRAIN, DEARBORN BRASS, 751 P-TRAP, McGUIRE 2165 ANGLE STOPS, ZURN Z-1225 CARRIER, BOTTLE FILLER, 1/5 hp., 120V., 1~, SEE ARCH. DWGS FOR MOUNTING HEIGHT

WATER HEATER SCHEDULE

MARK	MFGR.	MODEL	INPUT KW	RECOVERY GPH@ 80△T	CAPACITY GAL.	REMARKS
WH-1	A.O. SMITH	DEL-15S-4	4.0	17	15	WITH EXPANSION TANK. 208V, SINGLE PHASE.



1 / P1.3 WATER HEATER CONNECTION

SCALE: N.T.S.

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STATE OF TEXAS
JOSE A. BERNAL
90861
LICENSED PROFESSIONAL ENGINEER

FLUID SYSTEMS, INC.
CONSULTING MECHANICAL ENGINEERS
REGISTRATION NUMBER: F-1161
12244 RATHMORE DR. • EL PASO, TEXAS 79928
OFFICE: (915) 856-9420

CONSTRUCTION DOCUMENTS

A PROPOSED NEW
RETAIL CENTER
403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

1810 Wyoming ave
el paso, tx 79903
ph:915.534.8082
fax:915.534.8083
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SCHEDULE AND DETAILS

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SHEET: **P1.3**

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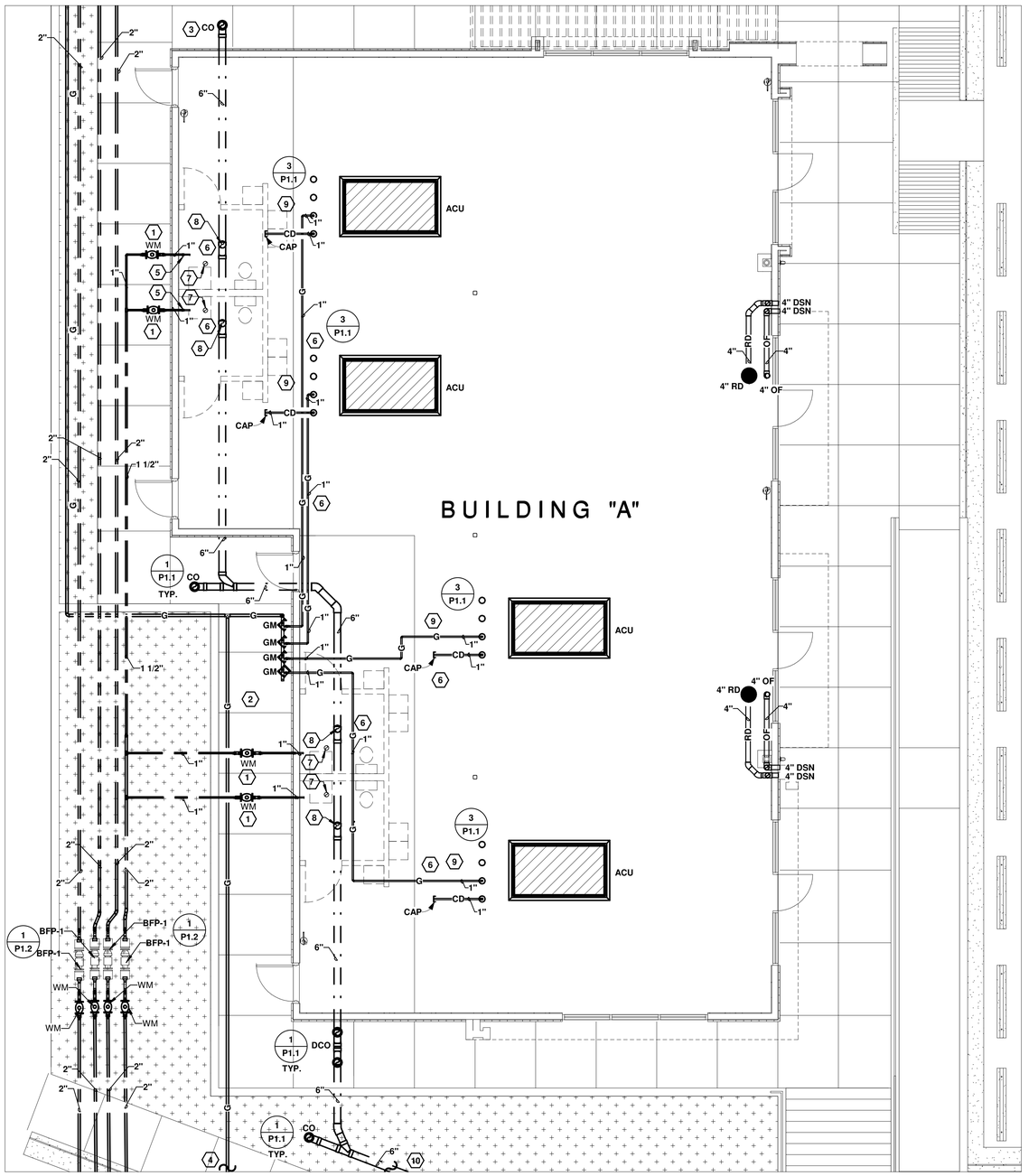

PLUMBING FLOOR PLAN - BLDG. "A"
3/16" = 1'-0"

KEYED NOTES

1. EXTEND WATER SUPPLY LINE FROM SUB WATER METER LOCATED IN REAR OF BUILDING.
2. EXTEND NEW GAS SERVICE TO BUILDING. COORDINATE WITH TEXAS GAS SERVICE.
3. START WASTE LINES A MINIMUM OF 3ft. BELOW FINISHED FLOOR.
4. REFER TO SHEET P1.0 FOR CONTINUATION OF GAS LINE AND SHEET P1.0 FOR ADDITIONAL INFORMATION.
5. WATER LINE STUB WITH SOV IN JOIST SPACE WITH CAP FOR FUTURE CONNECTION. COLD WATER PIPING COMES UP THRU THE FLOOR. PROVIDE SLEEVE AT FLOOR PENETRATION AND EXTEND PIPING UP AND TERMINATE 12" BELOW JOIST WITH A VALVE STUB OUT AND CAP.
6. ALL WATER AND GAS LINES NEED TO BE PERMANENTLY LABELED WITH CONTRASTING COLOR, WITH SUITE NUMBER. HANDWRITTEN MARKINGS WILL NOT BE ACCEPTED AT ALL. FIELD COORDINATE AND VERIFY WITH OWNER FOR FINAL NUMBERING.
7. 4" ø PLUMBING VENT THRU ROOF. STUB DOWN IN CEILING SPACE. SECURE TO STRUCTURE. LOCATE 6' OFF BACK WALL AND 6' OFF DEMISING WALL TYP. CAP VENT 24" BELOW ROOF DECK. SEE DETAIL 2/P1.1.
8. 4" CAPPED SEWER STUB WITH FUTURE CONNECTION. 24" ABOVE FINISH GRADE. FIELD COORDINATE. SEE DETAIL.
9. GAS LINE RUN IN JOIST SPACE (NOT UNDER) CAP FOR FUTURE EXTENSION.
10. REFER TO SHEET P1.0 FOR CONTINUATION OF SEWER LINE. PROVIDE CLEANOUTS AT EVERY 75 FEET.

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403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

psrbb ARCHITECTS
1810 Wyoming ave
el paso, tx 79903
ph:915.534.8082
fax:915.534.8083
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JOSE A. BERNAL 90861 LICENSED PROFESSIONAL ENGINEER STATE OF TEXAS

FLUID SYSTEMS, INC.
CONSULTING MECHANICAL ENGINEERS
REGISTRATION NUMBER: F-1161
12244 RATHMORE DR. • EL PASO, TEXAS 79928
OFFICE: (915) 856-9420

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PLUMBING FLOOR PLAN - BLDG. "A"

COMMISSION No. 23-010
DATE: 08/14/23
REVISIONS
Description Date

SHEET: **P2.0**
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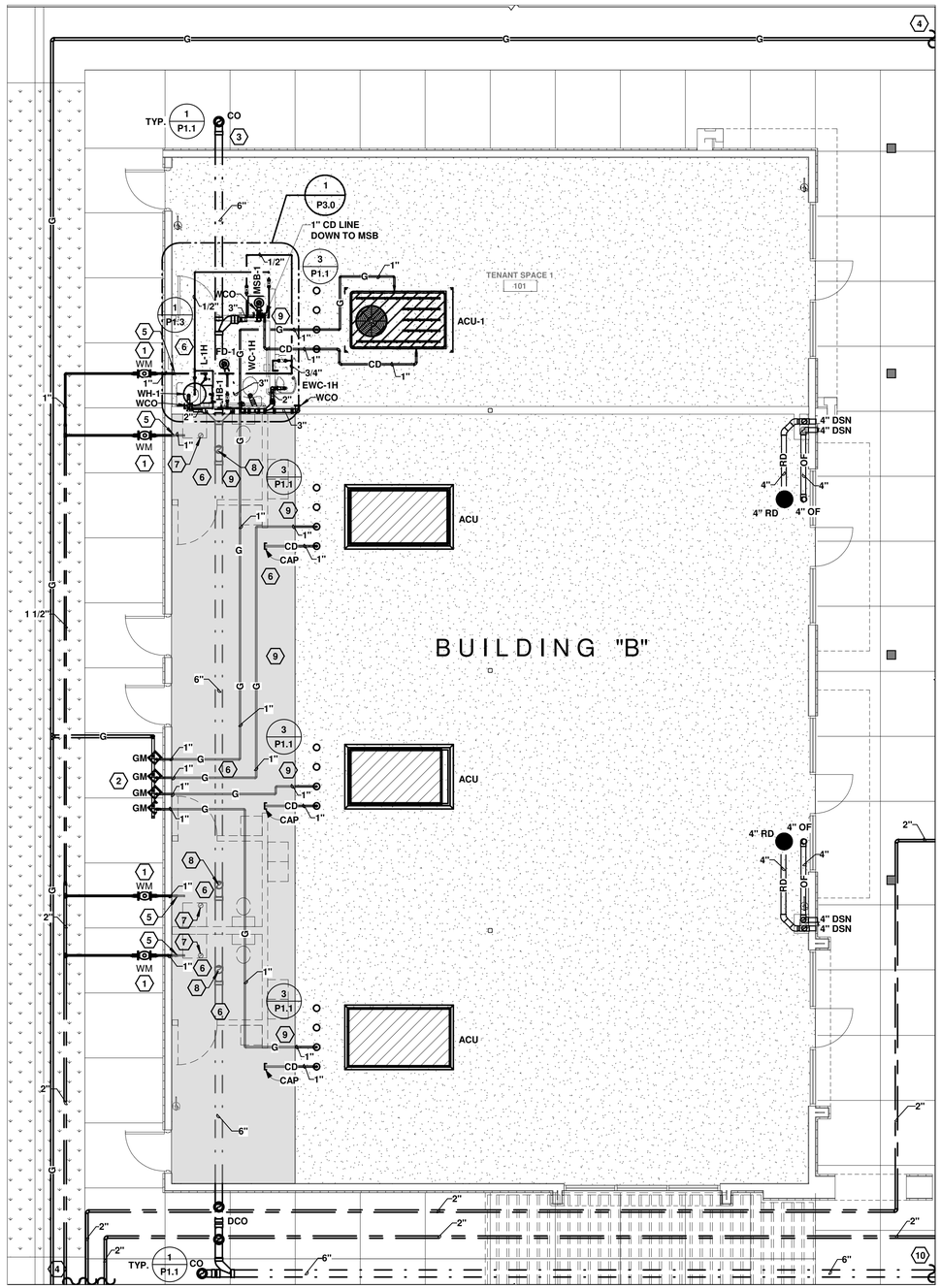

PLUMBING FLOOR PLAN - BLDG. "B"

3/16" = 1'-0"

KEYED NOTES

1. EXTEND WATER SUPPLY LINE FROM SUB WATER METER LOCATED IN REAR OF BUILDING.
2. EXTEND NEW GAS SERVICE TO BUILDING. COORDINATE WITH TEXAS GAS SERVICE.
3. START WASTE LINES A MINIMUM OF 3ft. BELOW FINISHED FLOOR.
4. REFER TO SHEET P1.0 FOR CONTINUATION OF GAS LINE AND SHEET P1.0 FOR ADDITIONAL INFORMATION.
5. WATER LINE STUB WITH SOV IN JOIST SPACE WITH CAP FOR FUTURE CONNECTION. COLD WATER PIPING COMES UP THRU THE FLOOR. PROVIDE SLEEVE AT FLOOR PENETRATION AND EXTEND PIPING UP AND TERMINATE 12" BELOW JOIST WITH A VALVE STUB OUT AND CAP.
6. ALL WATER AND GAS LINES NEED TO BE PERMANENTLY LABELED WITH CONTRASTING COLOR, WITH SUITE NUMBER. HANDWRITTEN MARKINGS WILL NOT BE ACCEPTED AT ALL. FIELD COORDINATE AND VERIFY WITH OWNER FOR FINAL NUMBERING.
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8. 4" CAPPED SEWER STUB WITH FUTURE CONNECTION. 24" ABOVE FINISH GRADE. FIELD COORDINATE. SEE DETAIL.
9. GAS LINE RUN IN JOIST SPACE (NOT UNDER) CAP FOR FUTURE EXTENSION.
10. REFER TO SHEET P1.0 FOR CONTINUATION OF SEWER LINE. PROVIDE CLEANOUTS AT EVERY 75 FEET.

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JOSE A. BERNAL 90861 LICENSED PROFESSIONAL ENGINEER

FLUID SYSTEMS, INC.
CONSULTING MECHANICAL ENGINEERS
REGISTRATION NUMBER: F-1161
12244 RATHMORE DR. • EL PASO, TEXAS 79928
OFFICE: (915) 856-9420

CONSTRUCTION DOCUMENTS

psrbb ARCHITECTS
1810 Wyoming ave
el paso, tx 79903
ph:915.534.8082
fax:915.534.8083
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PLUMBING FLOOR PLAN - BLDG. "B"

COMMISSION No. 23-010

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SHEET: **P2.1**

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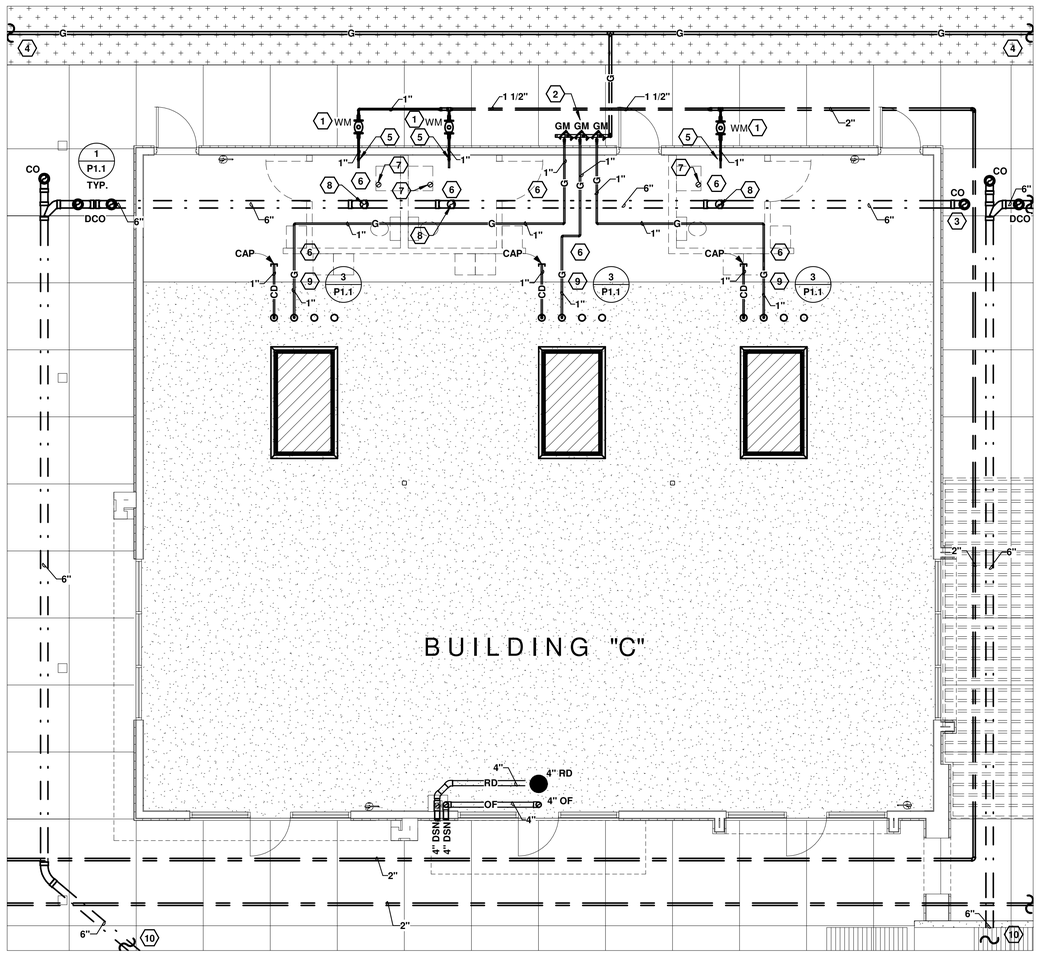

PLUMBING FLOOR PLAN - BLDG. "C"

3/16" = 1'-0"

KEYED NOTES

1. EXTEND WATER SUPPLY LINE FROM SUB WATER METER LOCATED IN REAR OF BUILDING.
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3. START WASTE LINES A MINIMUM OF 3ft. BELOW FINISHED FLOOR.
4. REFER TO SHEET P1.0 FOR CONTINUATION OF GAS LINE AND SHEET P1.0 FOR ADDITIONAL INFORMATION.
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9. GAS LINE RUN IN JOIST SPACE (NOT UNDER) CAP FOR FUTURE EXTENSION.
10. REFER TO SHEET P1.0 FOR CONTINUATION OF SEWER LINE. PROVIDE CLEANOUTS AT EVERY 75 FEET.

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JOSE A. BERNAL
90861
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

FLUID SYSTEMS, INC.
CONSULTING MECHANICAL ENGINEERS
REGISTRATION NUMBER: F-1161
12244 RATHMORE DR. * EL PASO, TEXAS 79928
OFFICE: (915) 856-9420

CONSTRUCTION DOCUMENTS

A PROPOSED NEW
RETAIL CENTER
403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

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el paso, tx 79903
ph:915.534.8082
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PLUMBING FLOOR PLAN - BLDG. "C"

COMMISSION No. 23-010

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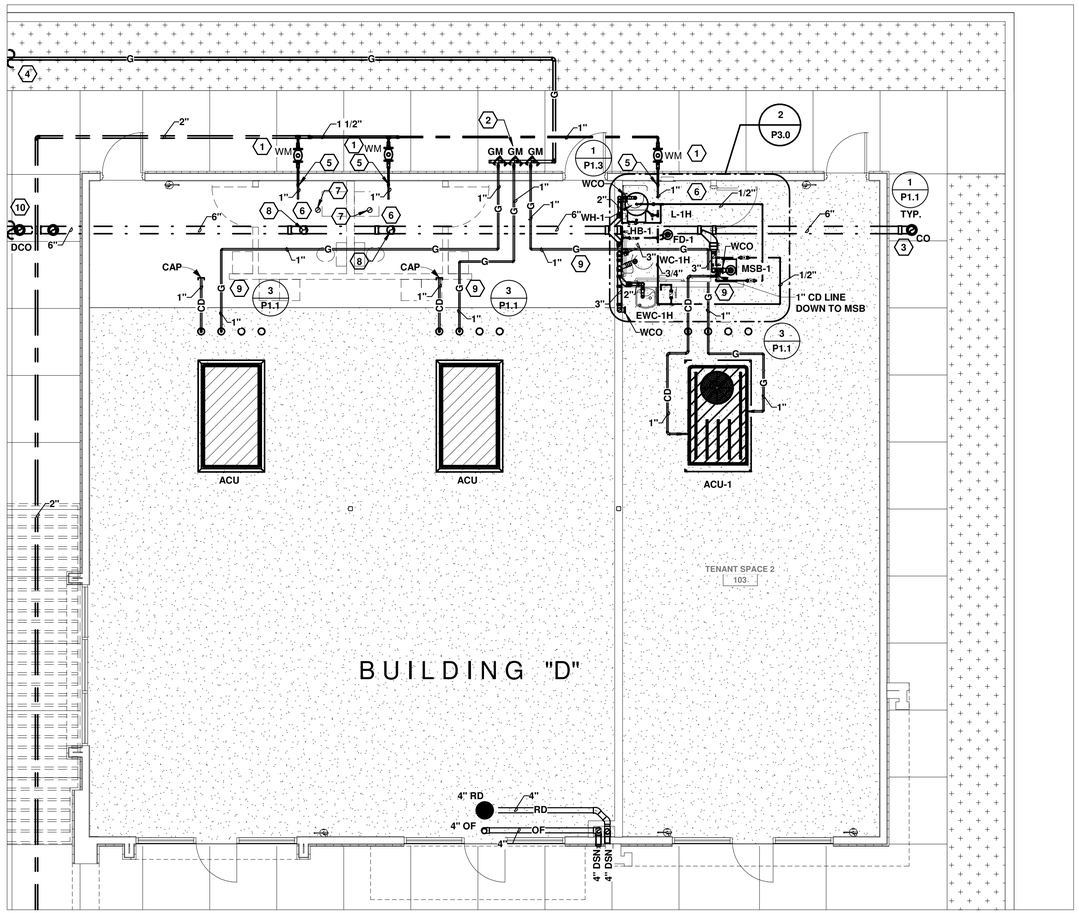

PLUMBING FLOOR PLAN - BLDG. "D"

3/16" = 1'-0"

KEYED NOTES

1. EXTEND WATER SUPPLY LINE FROM SUB WATER METER LOCATED IN REAR OF BUILDING.
2. EXTEND NEW GAS SERVICE TO BUILDING. COORDINATE WITH TEXAS GAS SERVICE.
3. START WASTE LINES A MINIMUM OF 3ft. BELOW FINISHED FLOOR.
4. REFER TO SHEET P1.0 FOR CONTINUATION OF GAS LINE AND SHEET P1.0 FOR ADDITIONAL INFORMATION.
5. WATER LINE STUB WITH SOV IN JOIST SPACE WITH CAP FOR FUTURE CONNECTION. COLD WATER PIPING COMES UP THRU THE FLOOR. PROVIDE SLEEVE AT FLOOR PENETRATION AND EXTEND PIPING UP AND TERMINATE 12" BELOW JOIST WITH A VALVE STUB OUT AND CAP.
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8. 4" CAPPED SEWER STUB WITH FUTURE CONNECTION. 24" ABOVE FINISH GRADE. FIELD COORDINATE. SEE DETAIL.
9. GAS LINE RUN IN JOIST SPACE (NOT UNDER) CAP FOR FUTURE EXTENSION.
10. REFER TO SHEET P1.0 FOR CONTINUATION OF SEWER LINE. PROVIDE CLEANOUTS AT EVERY 75 FEET.

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JOSE A. BERNAL
90861
LICENSED PROFESSIONAL ENGINEER

FLUID SYSTEMS, INC.
CONSULTING MECHANICAL ENGINEERS
REGISTRATION NUMBER: F-1161
12244 RATHMORE DR. * EL PASO, TEXAS 79928
OFFICE: (915) 856-9420

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A PROPOSED NEW
RETAIL CENTER
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1810 Wyoming ave
el paso, tx 79903
ph:915.534.8082
fax:915.534.8083
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PLUMBING FLOOR PLAN - BLDG. "D"

COMMISSION No. 23-010
DATE: 08/14/23

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SHEET: **P2.3**
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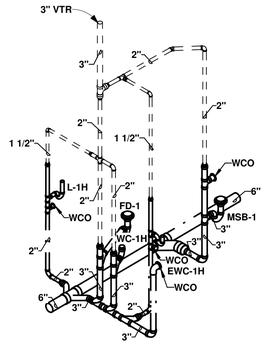

1 P3.0 WASTE RISER RM. 101
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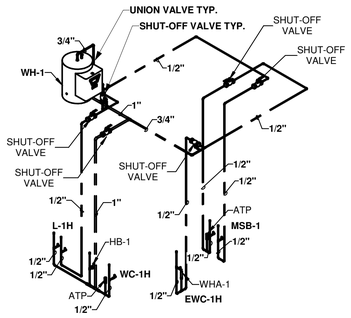

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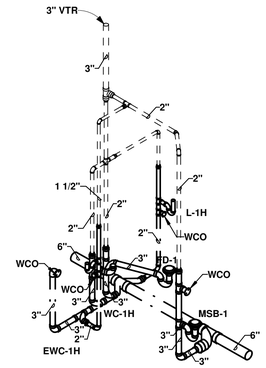

2 P3.0 WASTE RISER RM. 103
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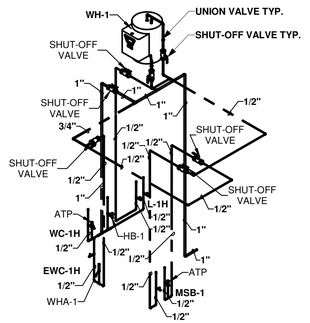

2 P3.0 WATER RISER RM. 103
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90861
LICENSED PROFESSIONAL ENGINEER

FLUID SYSTEMS, INC.
CONSULTING MECHANICAL ENGINEERS
REGISTRATION NUMBER: F-1161
12244 RATHMORE DR. • EL PASO, TEXAS 79928
OFFICE: (915) 856-9420

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A PROPOSED NEW
RETAIL CENTER
403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

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WASTE & WATER RISER DIAGRAMS

COMMISSION No. 23-010
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SHEET: **P3.0**
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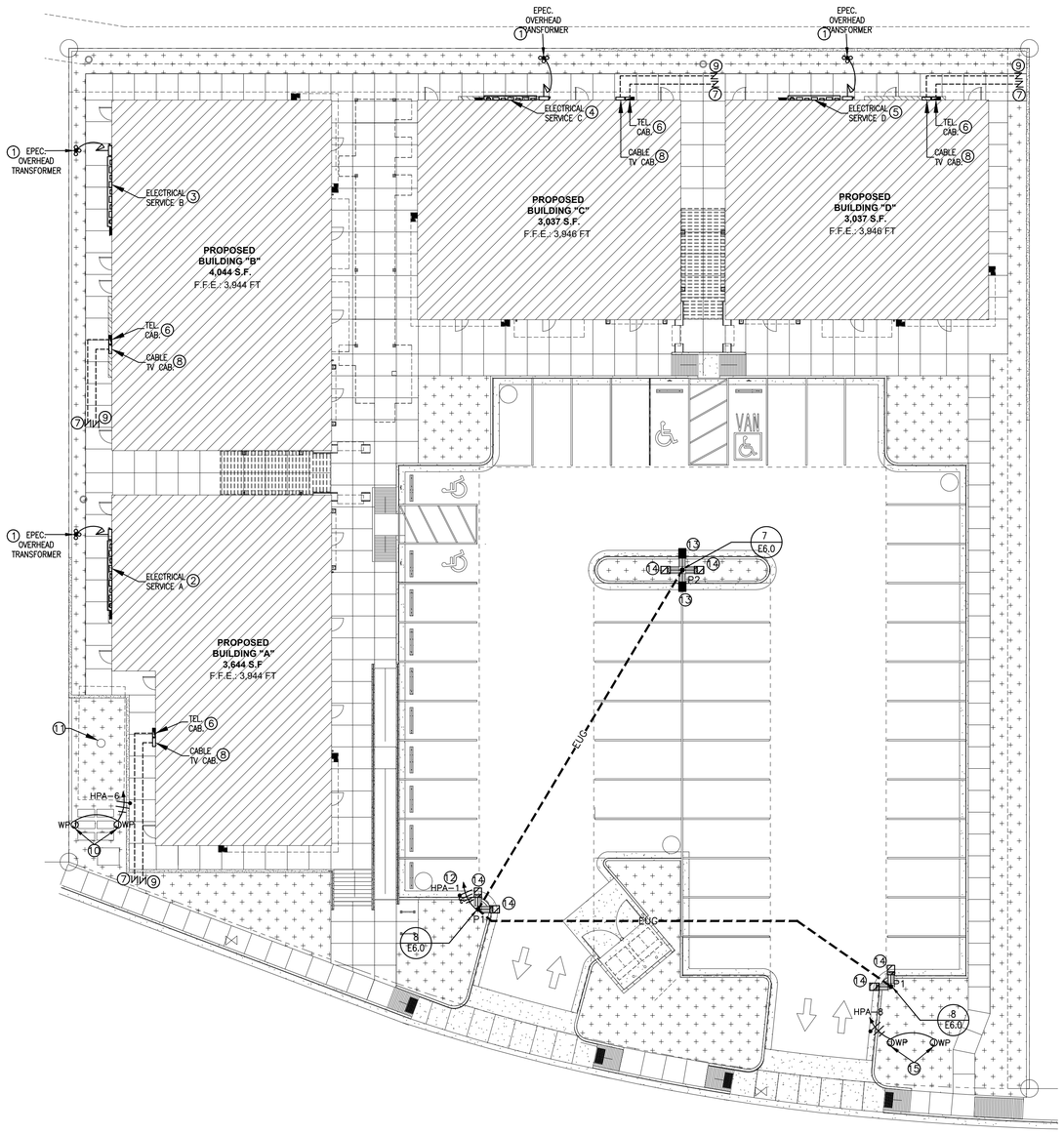

SITE PLAN

SCALE: 1/16" = 1-0"

GENERAL NOTES:

A. ELECTRICAL INSTALLATION MUST FOLLOW ALL NATIONAL AND LOCAL ELECTRICAL CODES. INSTALLATION MUST CONFORM TO THE LOCAL POWER COMPANY'S SPECIFICATIONS.

B. ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION AND SHALL BE LISTED BY THE U.L.

C. ELECTRICAL CONTRACTOR MUST COORDINATE ALL POWER SERVICE ON THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR ALL FEES FOR TEMPORARY SERVICE.

D. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL PERMIT AND INSPECTION FEES REQUIRED BY THE GOVERNING BODIES.

E. ELECTRICAL CONTRACTOR MUST COMPLY WITH THE LATEST A.D.A. REQUIREMENTS.

F. MINIMUM SIZE CONDUCTORS SHALL BE #12 THW CU. UNLESS NOTED OR SIZED BY CODE. ALL WIRING MUST BE COPPER.

G. ALL WIRING MUST BE IN CONDUIT, INCLUDING ALL L.V. WIRING. THIN WALL CONDUIT (EMT) CAN BE INSTALLED CONCEALED ABOVE CEILING, IN FURRED WALLS, AND WALLS EXCEPT WHERE THOSE WALLS ARE GROUTED SOLID. USE FLEX CONDUIT FOR MOTORS AND LIGHTING FIXTURES. USE WATER TIGHT FLEX CONDUIT FOR WATER HEATERS, DISPOSALS, EXTERIOR CONNECTIONS, ETC. BOND ACCORDING TO CODE.

H. VERIFY LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES PRIOR TO INSTALLATION. CONTRACTOR SHALL CORRECT AND ADJUST ANY NONE COORDINATED WORK AT NO COST TO OWNER OR PROJECT.

I. CONTRACTOR TO COORDINATE NEW SERVICE WITH OWNER AND LOCAL UTILITY AS SOON AS CONTRACT IS LET.

J. CONTRACTOR MUST VISIT SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS BEFORE BIDDING ON THIS PROJECT.

K. ALL ELECTRICAL EQUIPMENT IN FIRE RATED WALLS BETWEEN LEASE SPACES MUST BE INSTALLED SO THAT FIRE RATING IS NOT COMPROMISED. CONTRACTOR TO PROPERLY SEAL ALL PENETRATIONS.

L. CONDUITS SHALL NOT BE PERMITTED TO BE ROUTED ON THE BOTTOM OF THE ROOF JOISTS OR BELOW THE ROOF JOISTS.

M. ALL ELECTRIC GEAR, GUTTERS, PANELBOARDS, DISCONNECTS, ETC. MUST BE PAINTED. VERIFY COLOR WITH ARCHITECT.

N. ALL ELECTRIC GEAR, GUTTERS, PANELBOARDS, DISCONNECTS, ETC. MUST BE PROVIDED WITH VANDAL/TAMPER PROOF RESISTANT SCREWS.

O. ALL CONDUITS MUST BE LABELED WITH PERMANENT BLACK INK MARKET.

P. PULLSTRING MUST BE INSTALLED IN ALL EMPTY CONDUITS. PULLSTRING MUST BE HEAVY DUTY, NEPTCO MULETAPE OR EQUAL. PROVIDE TAGS AT EACH END OF PULLSTRING DENOTING WHERE PULLSTRING LEADS TO (i.e. "TO HOUSE PANEL").

Q. DRAWINGS ARE BASED ON ARCHITECTURAL PLANS AND/OR FIELD OBSERVATIONS. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS AND ROUTINGS BEFORE BIDDING.

R. CONTRACTOR SHALL EXPECT TO MAKE SOME ROUTING ADJUSTMENTS DURING THE COURSE OF CONSTRUCTION. COORDINATE CHANGES WITH ENGINEER AND KEEP RECORD OF CHANGES FOR AS-BUILTS.

S. CONTRACTOR SHALL LOCATE ANY UNDERGROUND LINES PRIOR TO TRENCHING. ANY UNDERGROUND LINES THAT ARE IDENTIFIED AND BECOME DAMAGED SHALL BE REPAIRED BY THE CONTRACTOR WITHOUT COST TO THE OWNER AND/OR ARCHITECT.

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ELECTRICAL PLAN KEYED NOTES:

1. APPROXIMATE LOCATION OF NEW EPEC OVERHEAD TRANSFORMERS. CONTRACTOR MUST COORDINATE WITH EPEC AS SOON AS CONTRACT IS AWARDED.
2. PROPOSED LOCATION OF BUILDING A ELECTRICAL SERVICE. REFER TO ELECTRICAL SERVICE A RISER DIAGRAM ON SHEET E2.1.
3. PROPOSED LOCATION OF BUILDING B ELECTRICAL SERVICE. REFER TO ELECTRICAL SERVICE B RISER DIAGRAM ON SHEET E3.1.
4. PROPOSED LOCATION OF BUILDING C ELECTRICAL SERVICE. REFER TO ELECTRICAL SERVICE C RISER DIAGRAM ON SHEET E4.1.
5. PROPOSED LOCATION OF BUILDING D ELECTRICAL SERVICE. REFER TO ELECTRICAL SERVICE D RISER DIAGRAM ON SHEET E5.1.
6. PROPOSED LOCATION OF RAINTIGHT 24"WX24"HX6"D LOCKABLE HINGED TELEPHONE TERMINAL CABINET. REFER TO TELEPHONE/TV CABLE CABINET DETAIL ON SHEET E6.0 FOR MORE REQUIREMENTS.
7. CONTRACTOR MUST PROVIDE AND INSTALL A 3" CONDUIT WITH PULL STRING FROM TELEPHONE CABINET TO THE TELEPHONE SERVICE POINT OF CONNECTION. COORDINATE WITH OWNER'S PREFERRED TELEPHONE COMPANY FOR REQUIREMENTS AND POINT OF CONNECTION AS SOON AS CONTRACT AS AWARDED.
8. PROPOSED LOCATION OF RAINTIGHT 24"WX24"HX6"D LOCKABLE HINGED TV CABLE CABINET. REFER TO TELEPHONE/TV CABLE CABINET DETAIL ON SHEET E6.0 FOR MORE REQUIREMENTS.
9. CONTRACTOR MUST PROVIDE AND INSTALL A 3" CONDUIT WITH PULL STRING FROM TV CABLE CABINET TO THE TV CABLE SERVICE POINT OF CONNECTION. COORDINATE WITH OWNER'S PREFERRED TV CABLE COMPANY FOR REQUIREMENTS AND POINT OF CONNECTION AS SOON AS CONTRACT AS AWARDED.
10. PROVIDE AND INSTALL J-BOX AS SHOWN FOR POWER CONNECTIONS TO BACKFLOW PREVENTOR HEAT TAPE AND SLAB HEATER. CONTRACTOR TO MAKE ALL WATERPROOF CONNECTIONS AS NECESSARY. USE A 3/4" CONDUIT WITH 2-#10 THWN. CU. CONDRS AND 1-#10 CU. GND.
11. APPROXIMATE LOCATION OF EXISTING BILLBOARD SIGN TO REMAIN. COORDINATE WITH ARCHITECTURAL PLANS.
12. THIS CIRCUIT TO HAVE (2) SWITCHED CONDUCTORS. ONE SWITCHED CONDUCTOR TO BE CONTROLLED BY CONTACTOR 'C1' FOR SCHEDULED OPERATION AND THE OTHER SWITCHED CONDUCTOR TO BE CONTROLLED BY CONTACTOR 'C2' FOR DUSK TO DAWN OPERATION. REFER TO BLDG A LIGHTING CONTROL SCHEMATIC DETAIL ON SHEET E2.1 FOR REQUIREMENTS.
13. THIS LIGHT POLE HEAD TO BE CONNECTED TO THE SWITCHED CONDUCTOR CONTROLLED BY CONTACTOR 'C2'. SEE BLDG A LIGHTING CONTROL SCHEMATIC ON SHEET E2.1.
14. THIS LIGHT POLE HEAD TO BE CONNECTED TO THE SWITCHED CONDUCTOR CONTROLLED BY CONTACTOR 'C1'. SEE BLDG A LIGHTING CONTROL SCHEMATIC ON SHEET E2.1.
15. PROVIDE AND INSTALL J-BOX AS SHOWN FOR POWER CONNECTIONS TO BACKFLOW PREVENTOR HEAT TAPE AND SLAB HEATER. CONTRACTOR TO MAKE ALL WATERPROOF CONNECTIONS AS NECESSARY. USE A 3/4" CONDUIT WITH 2-#8 THWN. CU. CONDRS AND 1-#10 CU. GND.

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
"D"	RECESSED 2X4 LIGHT FIXTURE, LETTER DENOTES TYPE
"D"	WALL MOUNTED LIGHT FIXTURE, LETTER DENOTES TYPE
"D"	WALL MOUNTED LIGHT FIXTURE IN ELEVATION VIEW, LETTER DENOTES TYPE
"D"	LIGHT POLE FIXTURE, LETTER DENOTES TYPE
"D"	LIGHT POLE FIXTURE, CONNECTED TO SECURITY LIGHTING CIRCUIT, LETTER DENOTES TYPE.
"D"	RECESSED DOWNLIGHT FIXTURE, LETTER DENOTES TYPE.
"D" "D"	COVE LIGHT FIXTURE, BOTH VERTICAL AND HORIZONTAL. LETTER DENOTES TYPE.
"EM"	EMERGENCY LIGHTS FIXTURE, CONNECT TO UNSWITCHED HOT CONDUCTOR.
"EMX"	COMBINATION EXIT/EMERGENCY LIGHT FIXTURE, CONNECT TO UNSWITCHED HOT CONDUCTOR.
	UTILITY OVERHEAD BANK OF TRANSFORMERS.
	ROOF PENETRATION. PROVIDE APPROPRIATE WATERPROOFING SEAL.
	TELEPHONE CABINET, AS NOTED
	CABLE TV CABINET, AS NOTED
2	KEYED NOTE SYMBOL-ELECTRICAL
WP	WEATHERPROOF
AFF	ABOVE FINISHED FLOOR
#12 GROUNDED #12 SWITCHED #12 NEUTRAL 3/4"C	HOME-RUN CIRCUIT WITH GROUND, SWITCHED CONDUCTOR, HOT CONDUCTOR, AND NEUTRAL.
-LV-	LOW VOLTAGE WIRING CIRCUIT
-EUG-	ELECTRICAL UNDERGROUND CIRCUIT, 3'-0" MINIMUM BELOW GRADE. SEE DETAIL 3/E6.0 ON SHEET E6.0.
	BRANCH CIRCUIT IN WALLS OR CEILING.
	BRANCH CIRCUIT UNDERGROUND.
	STUBBED-OUT CONDUIT
$3	THREE-WAY WALL SWITCH, 44" TO CENTER OF BOX UNLESS OTHERWISE NOTED.
$S1	SINGLE POLE SENSOR WALL SWITCH, 44" TO CENTER OF BOX. UNLESS OTHERWISE NOTED.
J	JUNCTION BOX
J	JUNCTION BOX INSTALLED ABOVE THE CEILING WITH FLEXIBLE CONDUIT CONNECTION TO LAY-IN FIXTURES. MAXIMUM 6'-0" LENGTH OF CONDUIT WITH REQUIRED CONDUCTORS ALONG WITH GREEN WIRE GROUND.
	4" SQ. DEEP BOX WITH SINGLE DEVICE PLASTER RING FOR DATA/TEL. SYSTEM OUTLET AT 18" AFF TO CENTER UNLESS OTHERWISE NOTED. INSTALL 1" COND. WITH BUSHING AND PULL-STRING. STUB-OUT CONDUIT ABOVE NEAREST ACCESSIBLE LAY-IN CEILING.
	DUPLEX OUTLET, 18" A.F.F. TO CENTER OF BOX, UNLESS OTHERWISE NOTED
	GROUND FAULT CIRCUIT INTERRUPTING DUPLEX RECEPTACLE MOUNTED AT 44" AFF. TO CENTER, UNLESS OTHERWISE NOTED.
	QUADRUPLEX RECEPTACLE, 125VAC-20A, NEMA 5-20R, 18" A.F.F., TO CENTER UNLESS OTHERWISE NOTED
EWC	GFI DUPLEX RECEPTACLE OUTLET FOR ELECTRICAL WATER COOLER
ACU-X	AIR CONDITIONING UNIT
	DISCONNECT, TO BE NEMA 3R IF INSTALLED OUTDOORS.
	MOTOR CONTROLLER, SIZE AND POLES FOR MOTOR FURNISHED.
T	4" SQ. BOX WITH SINGLE DEVICE PLASTER RING AT 44" A.F.F TO CENTER OF BOX FOR THERMOSTAT. THERMOSTAT PROVIDED BY MECHANICAL CONTRACTOR.
EF	EXHAUST FAN, SEE MECHANICAL PLANS.

UTILITY COORDINATION

- THIS CONTRACTOR HAS COMPLETE RESPONSIBILITY TO COORDINATE WITH EL PASO ELECTRIC, TIME WARNER, AND AT&T TO ASSURE THEY ARE AWARE OF THE CONSTRUCTION SCHEDULE AND CAN MEET THE SCHEDULE. IT IS CRITICAL THAT THIS CONTRACTOR VERIFY CONDUIT STUBB UP POINTS WITH TIME WARNER AND AT&T PRIOR TO ANY INSTALLATION, TRENCHING AND/OR ROUGH-IN. IF COORDINATION DOES NOT HAPPEN WITH THE MENTIONED ENTITIES ABOVE, CONTRACTOR WILL BE RESPONSIBLE IF NEW ROUTING IS NEEDED, AT NO ADDITIONAL COST TO OWNER AND/OR PROJECT.

CITY OF EL PASO OUTDOOR LIGHTING ORDINANCE

PROJECT ZONING: C-4 — ORDINANCE LIGHTING ZONE: E-4

PROJECT AREA: 1.11 (ACRE) — ALLOWED LUMENS PER ACRE: 1,000,000

PERMITTED LUMENS: 1,110,000 — ILLUMINATED SIGN CURFEW: 12:00 PM
A TIME CLOCK IS PROVIDED FOR THE BLDG SIGN AND THE SITE SIGN POLE

OUTDOOR TOTAL LUMENS CALCULATION

MOUNTING	WATT SOURCE	LUMENS LAMP	COUNT	TOTAL LUMENS
POLE 'P1'	139	7,484	4	29,936
POLE 'P2'	139	7,484	4	29,936
WALLPACK 'A'	40	7,800	15	117,000
CYLINDER 'B'	42	4,200	47	197,400
RECESSED 'C'	23	2,500	28	70,000
STRIPLIGHT 'D'	5	440	307	135,080
FLOODLIGHT 'F'	44	3,665	4	14,660
			TOTAL	594,012

THE TOTAL 594,012 LUMENS FOR THIS PROJECT IS LESS THAN THE 1,110,000 LUMENS PERMITTED. THEREFORE THE PROJECT COMPLIES WITH THE EL PASO OUTDOOR ORDINANCE

STATE OF TEXAS
MARK W. PADILLA
56294
REGISTERED PROFESSIONAL ENGINEER
8/10/22

ALPHA ENGINEERING, INC.
ENGINEERING CONSULTANTS
1818 E. RIO GRANDE • EL PASO, TEXAS 79902
TEL. (915) 838-9900• FAX. (915) 838-9909
REGISTRATION # F005236

CONSTRUCTION DOCUMENTS

A PROPOSED NEW
RETAIL CENTER
AT
403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

1810 Wyoming ave
el paso, tx 79903
ph:915.534.8082
fax:915.534.8083
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SITE PLAN

COMMISSION No. 00-000

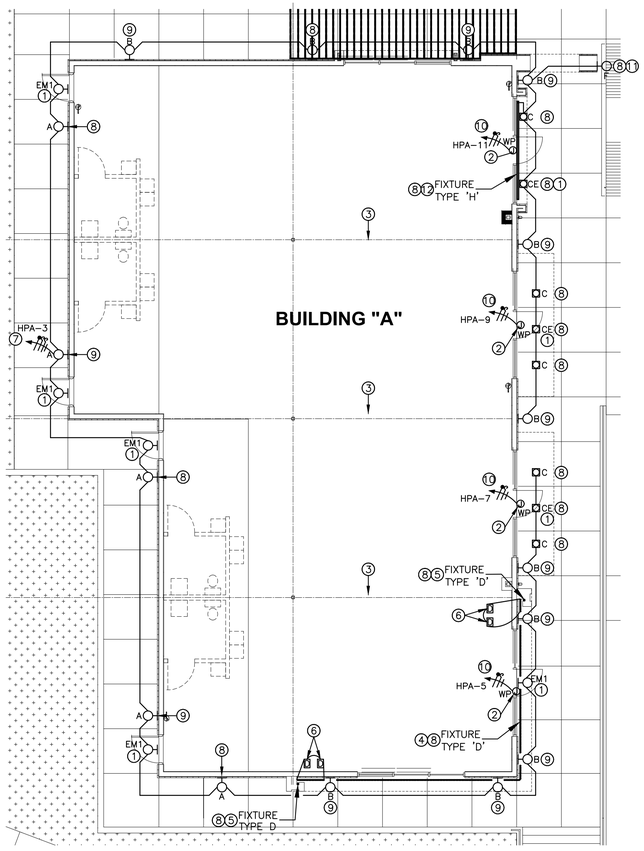
DATE: 08/10/2022

REVISIONS

#	Description	Date

SHEET: **E1.0**

1 OF 15

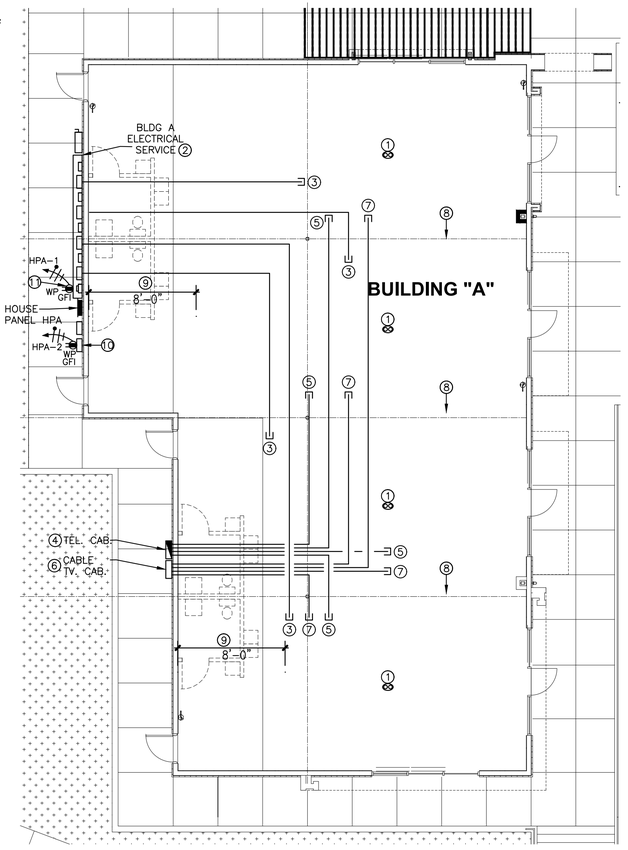


LIGHTING PLAN KEYED NOTES:

1. ALL EMERGENCY LIGHT BATTERY PACKS TO BE CONNECTED TO THE UNSWITCHED HOT CONDUCTOR SERVING THIS AREA.
2. PROVIDE AND INSTALL WP J–BOX FLUSHED IN THE VERTICAL FACE OF THE WALL OF TENANT SPACE WITH CIRCUIT AS NOTED FOR SPACE SIGN. COORDINATE WITH ARCHITECT AND OWNER FOR EXACT LOCATION BEFORE ROUGH–IN. USE 3/4" CONDUIT WITH 2–#10 THWN CU. CONDRS. AND 1–#10 CU. GND. CIRCUIT TO BE WIRED THRU CONTACTOR C1. CONDUIT TO BE LABELED "TENANT SIGN XXX" WHERE XXX IS THE NUMBER OF SUITE SERVED. INTERIOR CONDUITS MUST BE PERMANENTLY LABELED, VISIBLE FROM BELOW CONDUIT. CONTRACTOR SHALL NOT COMBINE TENANT SIGN HOMERUNS INTO A SINGLE CONDUIT. PROVIDE ONE CONDUIT SYSTEM. SEE BLDG A LIGHTING CONTROL SCHEMATIC DETAIL 1/E2.1 ON SHEET E2.1.
3. CONTRACTOR SHALL NOT INSTALL ANY J–BOXES OR CONDUIT WITHIN 3FT. OF ANY FUTURE DEMISING WALLS FOR THE TENANT SPACES. COORDINATE WITH ARCHITECTURAL PLANS FOR DEMISING WALL LOCATIONS.
4. PROVIDE AND INSTALL A CONTINUOUS ROW OF LINEAR LIGHT FIXTURE TYPE D WITHIN EXTERIOR TOP COVE SPACE. LINEAR FIXTURE MUST REACH ENTIRE LENGTH OF COVE SPACE FROM END TO END. SEE COVE LIGHTING DETAIL 4/E6.0 ON SHEET E6.0.
5. PROVIDE AND INSTALL A CONTINUOUS ROW OF LINEAR LIGHT FIXTURE TYPE D WITHIN EXTERIOR VERTICAL COVE SPACE. LINEAR FIXTURE MUST REACH FROM TOP TO BOTTOM OF COVE SPACE. SEE COVE LIGHTING DETAIL 5/E6.0 ON SHEET E6.0.
6. PROVIDE AND INSTALL LIGHT FIXTURE TYPE D REMOTE DRIVERS ABOVE CEILING SPACE. MAKE CONNECTIONS TO EXTERIOR SWITCHED CIRCUIT CONTROLLED BY CONTACTOR 'C1'.
7. THIS CIRCUIT TO HAVE (2) SWITCHED CONDUCTORS. ONE SWITCHED CONDUCTOR TO BE CONTROLLED BY CONTACTOR 'C1' FOR A SCHEDULED OPERATION AND THE OTHER SWITCHED CONDUCTOR TO BE CONTROLLED BY CONTACTOR 'C2' FOR DUSK TO DAWN OPERATION. REFER TO BLDG A LIGHTING CONTROL SCHEMATIC DETAIL 1/E2.1 ON SHEET E2.1.
8. THIS LIGHT FIXTURE TO BE CONNECTED TO THE SWITCHED CONDUCTOR CONTROLLED BY CONTACTOR 'C1'. SEE BLDG A LIGHTING CONTROL SCHEMATIC DETAIL 1/E2.1 ON SHEET E2.1.
9. THIS LIGHT FIXTURE TO BE CONNECTED TO THE SWITCHED CONDUCTOR CONTROLLED BY CONTACTOR 'C2'. SEE BLDG A LIGHTING CONTROL SCHEMATIC DETAIL 1/E2.1 ON SHEET E2.1.
10. THIS CIRCUIT TO BE CONNECTED TO CONTACTOR 'C1'. SEE BLDG A LIGHTING CONTROL SCHEMATIC DETAIL 1/E2.1 ON SHEET E2.1.
11. INSTALL FIXTURE MOUNTED ON WALL @ 22'–0" A.F.F. POINTING DOWN.
12. THIS FIXTURE TO BE INSTALLED RECESSED TO THE TOP SOFFIT. SEE ELEVATION DETAIL FOR LOCATION.

1 BLDG A LIGHTING PLAN

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



ELECTRICAL PLAN KEYED NOTES:

1. CONTRACTOR SHALL PROVIDE AND INSTALL (2) INDIVIDUAL ROOF PENETRATIONS WITH A WEATHER PROOF LEAD FLASHING. USE ONE INDIVIDUAL PENETRATION TO INSTALL A 1" CONDUIT FOR FIXTURE HVAC POWER WIRING. USE THE OTHER ROOF PENETRATION TO INSTALL 3/4" CONDUIT FOR FIXTURE HVAC CONDUIT WIRING. SEE DETAIL 1/E6.0 ON SHEET E6.0 FOR REQUIREMENTS. COORDINATE LOCATION WITH MECHANICAL PLANS.
2. LOCATION OF BLDG A ELECTRICAL SERVICE. SEE ELECTRICAL RISER DIAGRAM ON SHEET E2.1.
3. PROVIDE AND INSTALL 2" CONDUIT WITH PULLSTRING AND BUSHINGS FOR EACH FUTURE LEASE SPACE PANEL. RUN CONDUIT IN JOIST SPACE TO EACH LEASE SPACE FROM GUTTER. DO NOT RUN CONDUIT BELOW BOTTOM OF JOISTS. PULLSTRING TO BE NEPTCO MULETAPE OR EQUAL AND PROVIDED WITH TAGS AT BOTH ENDS. ALL CONDUITS AND J–BOXES MUST BE PERMANENTLY MARKED. CONDUIT TO BE LABELED "ELEC XXX" WHERE XXX IS THE NUMBER OF SUITE SERVED. INTERIOR CONDUITS MUST BE PERMANENTLY LABELED, VISIBLE FROM BELOW CONDUIT HAND WRITTEN MARKINGS WILL NOT BE ACCEPTED. COORDINATE WITH OWNER BEFORE DOING ANY WORK. SEE BLDG A ELECTRICAL RISER DIAGRAM ON SHEET E2.1.
4. PROPOSED LOCATION OF RAINTIGHT 24"WX24"HX6"D LOCKABLE HINGED TELEPHONE TERMINAL CABINET. REFER TO TELEPHONE/TV CABLE CABINET DETAIL ON SHEET E6.0 FOR MORE REQUIREMENTS.
5. PROVIDE AND INSTALL 1" CONDUIT WITH PULLSTRING AND BUSHINGS FOR TEL. WIRING, RUN CONDUIT IN JOIST SPACE TO EACH LEASE SPACE. DO NOT RUN CONDUIT BELOW BOTTOM OF JOISTS. PULLSTRING TO BE NEPTCO MULETAPE OR EQUAL AND PROVIDED WITH TAGS AND BOTH ENDS. CONDUIT TO BE LABELED "TEL XXX" WHERE XXX IS THE NUMBER OF SUITE SERVED. INTERIOR CONDUITS MUST BE PERMANENTLY LABELED, VISIBLE FROM BELOW CONDUIT. SEE DETAIL 2/E6.0 ON SHEET E6.0.
6. PROPOSED LOCATION OF RAINTIGHT 24"WX24"HX6"D LOCKABLE HINGED TV CABLE CABINET. REFER TO TELEPHONE/TV CABLE CABINET DETAIL ON SHEET E6.0 FOR MORE REQUIREMENTS.
7. PROVIDE AND INSTALL 1 1/4" CONDUIT WITH PULLSTRING AND BUSHINGS FOR CABLE TV WIRING, RUN CONDUIT IN JOIST SPACE TO EACH LEASE SPACE. DO NOT RUN CONDUIT BELOW BOTTOM OF JOISTS. PULLSTRING TO BE NEPTCO MULETAPE OR EQUAL AND PROVIDED WITH TAGS AT BOTH ENDS. CONDUIT TO BE LABELED "CABLE TV/SAT XXX" WHERE XXX IS THE NUMBER OF SUITE SERVED. INTERIOR CONDUITS MUST BE PERMANENTLY LABELED, VISIBLE FROM BELOW CONDUIT. COORDINATE WITH OWNER BEFORE DOING ANY WORK. SEE DETAIL 2/E6.0 ON SHEET E6.0.
8. CONTRACTOR SHALL NOT INSTALL ANY J–BOXES OR CONDUIT WITHIN 3FT. OF ANY FUTURE DEMISING WALLS FOR THE TENANT SPACES. COORDINATE WITH ARCHITECTURAL PLANS FOR DEMISING WALL LOCATIONS.
9. CONTRACTOR SHALL INSTALL ALL CONDUITS A MINIMUM OF 8FT. FROM THE FACE OF THE INTERIOR WALL. THIS AREA IS RESERVED FOR PLUMBING PIPING ONLY. COORDINATE WITH ALL CONTRACTORS.
10. APPROXIMATE LOCATION OF IRRIGATION CONTROLLER. CONTRACTOR SHALL PROVIDE AND INSTALL A WP/GFI RECEPTACLE WITH A WP BOX WITH METALLIC IN–USE COVER ADJACENT TO IRRIGATION CONTROLLER. COORDINATE WITH LANDSCAPE PLANS FOR EXACT LOCATION.
11. PROVIDE AND INSTALL A WP/GFI SERVICE OUTLET IN A WP BOX WITH IN–USE METALLIC COVER ADJACENT TO HOUSE PANEL.

2 BLDG A POWER PLAN

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

FIXTURE SCHEDULE

TYPE	DESCRIPTION & MFR. CAT. No.	LAMPS & WATTS	MOUNTING	NOTES
A	RAYON T633LED B 60W UNV 40K T3 FBA	60W LED	WALL @10'–0"	
B	RAYON T219LED 30 12 UNV 40 36 36 BFBA G2	42W LED	WALL @7'–0"	
C	PORTFOLIO LDS6C 25 90 40 D010 S 1 H RMB22	23W LED	RECESSED	
CE	PORTFOLIO LDS6C 25 90 40 D010 S 1 H EMBOD6ST RMB22	23W LED	RECESSED	
D	DIODELED D124V STMLT4–W 40K W016 SL WH MC 0/0	5W/FT LED	FIELD ASSEMBLY	(1)
F	LIGMAN UOD–50163 44W VN W40 CBA 120/277V AS4431	44W LED	WALL @22'–0"	
G	METALUX 24CZ2 40 UNV L840 CD 1 U	30W LED	RECESSED	
H	NULITE RXT–F FF 03 L40 1C U D CBA 11FT	37W LED	RECESSED	
P1	LUMARK PRV PA1 A 740 U T4W 6A FBA (2) FIXTURES @ 90°	139W LED	POLE @20'–0"	
P2	LUMARK PRV PA1 A 740 U T4W 6A FBA (4) FIXTURES @ 90°	139W LED	POLE @20'–0"	
EMX	EVENLITE TLP R 2U W	INCLUDED LED	WALL ABOVE DOOR/CEILING MOUNTED	
EM1	EVENLITE WW EM FBA	INCLUDED LED	WALL ABOVE DOOR	
EM	SURE–LITE SEL25	INCLUDED LED	WALL @8'6"	

(1) CONTRACTOR MUST COORDINATE WITH MANUFACTURER FOR ALL POWER SUPPLIES, MOUNTING KITS, AND ANY OTHER ACCESSORIES NEEDED FOR THE INSTALLATION OF THIS FIXTURE.

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1810 Wyoming ave
el paso, tx 79903
ph:915.534.8082
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BLDG A LIGHTING & POWER PLANS

COMMISSION No. 00-000

DATE: 08/10/2022

REVISIONS

#	Description	Date

SHEET: **E2.0**

2 OF 15

STATE OF TEXAS
JOHN K. ADILTA
96294
REGISTERED PROFESSIONAL ENGINEER
8/10/23
ALPHA ENGINEERING, INC.
ENGINEERING CONSULTANTS
1818 E. RIO GRANDE • EL PASO, TEXAS 79902
TEL. (915) 838–9900• FAX. (915) 838–9909
REGISTRATION # F005235

CONSTRUCTION DOCUMENTS

PANELBOARD SCHEDULE

PANELBOARD "HPA": 120/208V, 3 PHASE, 4 WIRE, 125 AMP. 60A MAIN C.B.
SURFACE MOUNTED, COPPER BUS, DOOR-WITHIN-DOOR, 14KAIC, TYPE 3R

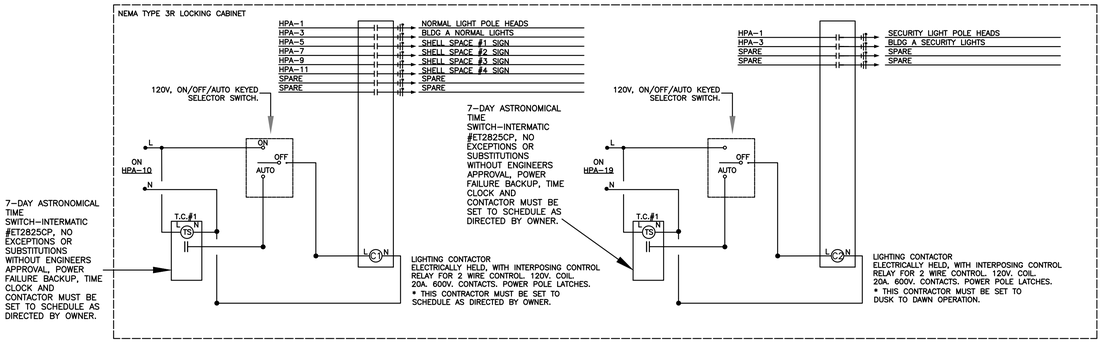
	CKT. NO.	BREAKER AMPS, POLE	PHASE A B C	BREAKER AMPS, POLE	CKT. NO.	LOAD SERVED
FRONT LIGHTPOLES (1)	1	20/1		20/1	2	IRRIGATION CONTROLLER
BLDG A LIGHTS (1)	3	20/1		20/1	4	SERVICE OUTLET
SHELL SPACE 1 SIGN (2)	5	20/1		20/1	6	BACKFLOW PREVENTER
SHELL SPACE 2 SIGN (2)	7	20/1		20/1	8	BACKFLOW PREVENTER
SHELL SPACE 3 SIGN (2)	9	20/1		20/1	10	LIGHTING CONTROLS
SHELL SPACE 4 SIGN (2)	11	20/1		---	12	SPACE
SPACE	13	---		---	14	SPACE
SPACE	15	---		---	16	SPACE
SPACE	17	---		---	18	SPACE

(1) THIS CIRCUIT TO BE CONNECTED TO CONTACTOR 'C1' AND 'C2' RESPECTIVELY. SEE BLDG A LIGHTING CONTROL SCHEMATIC ON THIS SHEET.
(2) THIS CIRCUIT TO BE CONNECTED TO CONTACTOR C1 CONTROLLED BY TIMER. SEE BLDG A LIGHTING CONTROL SCHEMATIC ON THIS SHEET.

PANELBOARD 'HPA' LOAD CALCULATIONS

	LOAD (VA)
LIGHTING @125%	1800
TENANT SIGNS @ 4	2400
OUTLETS	720
HEATERS	2000
TOTAL	6,920 VA

I = 6,920VA/(208V)(1.73) = 19 AMPS
PANELBOARD HPA 125AMPS, 120/208V, 3 PH., 4W FED FROM HOUSE DISCONNECT FUSED AT 60AMPS WITH 1" C WITH 4-#6 THWN CU. AND 1-#8 CU. GND.



* CONTRACTOR MUST PROVIDE 1HR TRAINING SESSION TO OWNER MAINTENANCE PERSONNEL ON OPERATION AND MAINTENANCE OF LIGHTING CONTROLS (TIMER AND CONTRACTORS). CONTRACTOR MUST PROGRAM TIMER SCHEDULE AS REQUIRED BY OWNER AT TIME OF TRAINING SESSION.

1 E2.1 BLDG A LIGHTING CONTROL SCHEMATIC

NTS

MAIN DISCONNECT 'MA' LOAD CALCULATIONS

	LOAD (AMPS)
(2) TYPICAL 800 S.Q. F.T. SPACE	94
(2) TYPICAL 1,000 S.Q. F.T. SPACE	110
HOUSE PANEL 'HPA'	19
TOTAL	223 AMPS

MAIN DISCONNECT 'MA' 800 AMP, 120/208V 3PH,
4W, TYPE 3R FED FROM EPEC TRANSFORMERS
WITH (2) SETS OF 3 1/2" CONDUITS EA/W 4-#500MCM CU. CONDRS AND 1-#2/0 CU. SERVICE GND.

FUTURE SPACE LOAD CALCULATIONS

TYPICAL 1,000 SQ. FT. SPACE

	LOAD (VA)
LIGHTING 1,000 S.Q. F.T. X 3.5VA @ 125%	4,375
OUTLETS 1,000 S.Q. F.T. X 1VA	1,000
HVAC 1,000 S.Q. F.T. X 10VA	10,000
ELECTRIC WATER HEATER	4,500
TOTAL	19,875 VA

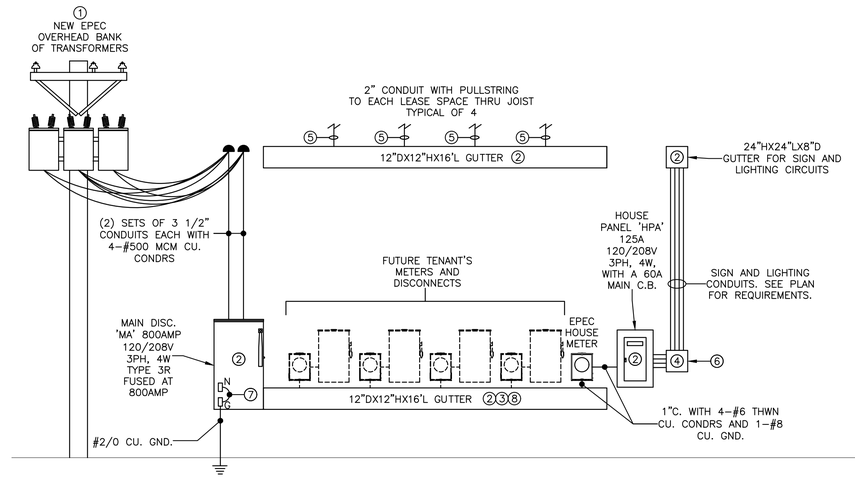
I = 19,875 VA/ (208V)(1.73) = 55 AMPS
FUTURE 100A, 120/208V, 3PH., 3P. TYPE 3R DISCONNECT 'XX'
FUSED AT 100A. WHERE 'XX' IS THE NUMBER OF SUITE SERVED.

FUTURE SPACE LOAD CALCULATIONS

TYPICAL 800 SQ. FT. SPACE

	LOAD (VA)
LIGHTING 800 S.Q. F.T. X 3.5VA @ 125%	3,500
OUTLETS 800 S.Q. F.T. X 1VA	800
HVAC 800 S.Q. F.T. X 10VA	8,000
ELECTRIC WATER HEATER	4,500
TOTAL	16,800 VA

I = 16,800 VA/ (208V)(1.73) = 47 AMPS
FUTURE 100A, 120/208V, 3PH., 3P. TYPE 3R DISCONNECT 'XX'
FUSED AT 100A. WHERE 'XX' IS THE NUMBER OF SUITE SERVED.



2 E2.1 ELECTRICAL SERVICE A

NTS

RISER DIAGRAM KEYED NOTES:

1. CONTRACTOR MUST COORDINATE WITH EPEC AS SOON AS CONTRACT IS LET FOR NEW ELECTRICAL SERVICE.
2. ALL ELECTRICAL GEAR MUST BE LABELED WITH 8" PAINTED LETTERING IN BLACK COLOR. ALL ELECTRICAL EQUIPMENT MUST BE PROVIDED WITH TAMPER PROOF SCREWS. COORDINATE WITH ARCHITECT BEFORE LABELING. REFER TO ARCHITECTURAL PLANS FOR EXACT LABELING REQUIREMENTS.
3. GUTTER MUST BE PROVIDED WITH ILSCO POWER DISTRIBUTION BLOCKS. PROVIDE ONE POWER DISTRIBUTION BLOCK FOR EACH PHASE, NEUTRAL, AND GROUND. INSTALL POWER DISTRIBUTION BLOCKS AT THREE POINTS INSIDE GUTTER, EQUALLY SPACED.
4. INSTALL LIGHTING CONTACTORS IN NEMA TYPE 3R ENCLOSURE.
5. 2" CONDUIT FOR FUTURE ELECTRICAL CONDUCTORS. RUN FROM UPPER GUTTER TO TENANT SPACE. PROVIDE PULLSTRING WITH LINEN LABELED IN EXTERIOR GUTTER. PROVIDE BUSHINGS ON STUB ENDS. CONDUIT TO BE LABELED "ELEC XXX" WHERE XXX IS THE NUMBER OF SUITE SERVED. INTERIOR CONDUITS MUST BE PERMANENTLY LABELED, VISIBLE FROM BELOW CONDUIT.
6. PROVIDE AND INSTALL LIGHTING CONTROL CABINET FOR BLDG. 'A' WITH:
   ONE (1) 8-POLE CONTACTOR C1 FOR CIRCUITS HPA-1,3,5,7,9, AND 11 CONTROLLED BY TIME CLOCK FOR SUNSET 'ON', TIMER 'OFF'.
   ONE (1) 4-POLE CONTACTOR C2 FOR CIRCUITS HPA-1 AND 3 CONTROLLED BY TIME CLOCK FOR DUSK TO DAWN OPERATION. SEE BLDG A LIGHTING CONTROL SCHEMATIC ON THIS SHEET.
7. MAIN BUILDING JUMPER TO BE 1-#2/0 CU. ACCORDING TO THE NEC ARTICLE 250.102(C)(1)TABLE.
8. EXTEND THE NEW (2) SETS OF #500 MCM CONDRS AND THE NEW #1/0 CU. GND. FROM MAIN DISCONNECT THROUGHOUT R.T. GUTTER. MAKE CONNECTIONS TO THE ILSCO BLOCKS AS REQUIRED.

FAULT CALCULATIONS

150 KVA TRANSFORMER, 120/208V, 3PH., Z =3.5%
I(MAX) = 150,000/(208)(1.732)= 417AMPS
I(FAULT) = 417A/ .035 = 11.9KA
FUSES MUST HAVE 14KA MIN. INT. CAPABILITY

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1818 E. RIO GRANDE • EL PASO, TEXAS 79902
TEL. (915) 838-9900• FAX. (915) 838-9909
REGISTRATION # F005236

CONSTRUCTION DOCUMENTS

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RETAIL CENTER
AT
403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

1810 Wyoming ave
el paso,tx 79903
ph:915.534.8082
fax:915.534.8083
psrbb ARCHITECTS
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BLDG A ELECTRICAL RISER & PANEL SCHEDULE

COMMISSION No. 00-000
DATE: 08/10/2022
REVISIONS
Description Date

SHEET: **E2.1**
3 OF 15

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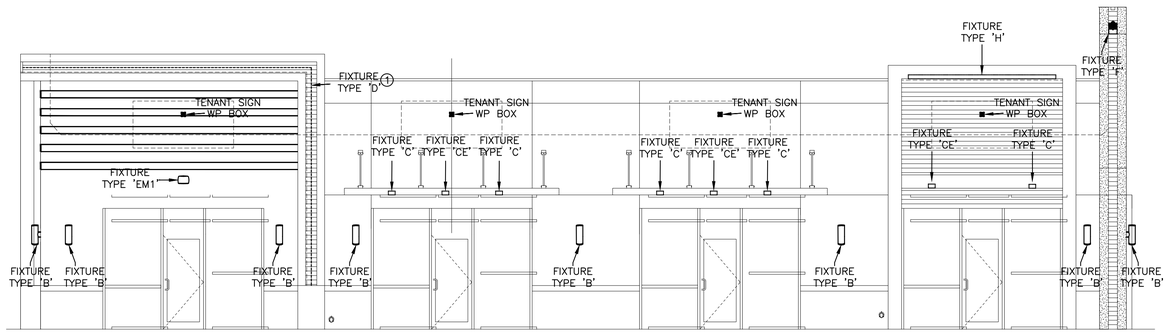
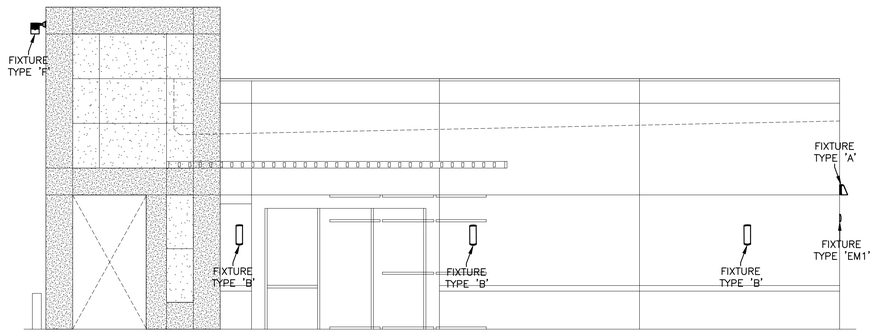


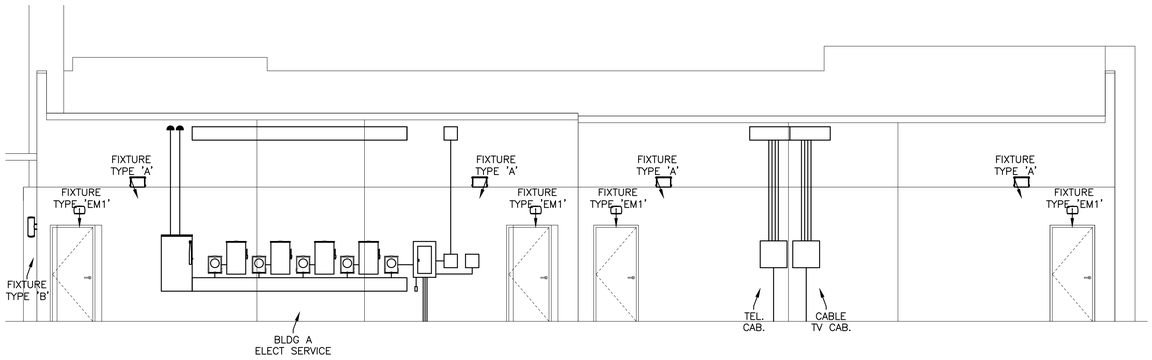
1 / E2.2 BLDG A LIGHTING EAST ELEVATION

3/16 = 1'-0"



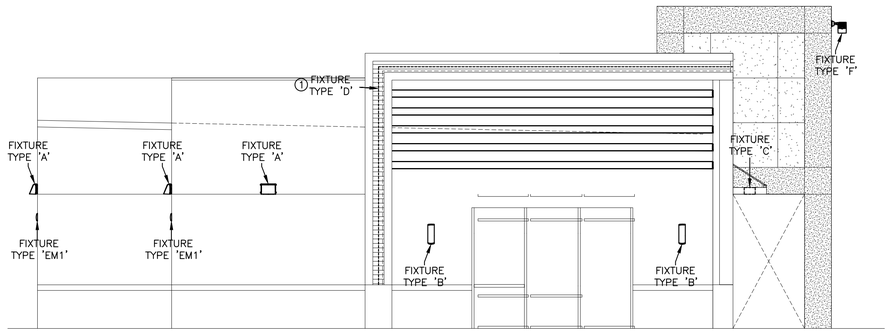
1 / E2.2 BLDG A LIGHTING NORTH ELEVATION

3/16 = 1'-0"



3 / E2.2 BLDG A LIGHTING WEST ELEVATION

3/16 = 1'-0"



4 / E2.2 BLDG A LIGHTING SOUTH ELEVATION

3/16 = 1'-0"

RISER DIAGRAM KEYED NOTES:

1. FIXTURE TYPE 'D' TO BE INSTALLED WITHIN THE ENTIRE COVE SPACE. COORDINATE WITH NOTES #4 AND #5 ON SHEET E2.0.

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BLDG A EXTERIOR ELEVATIONS

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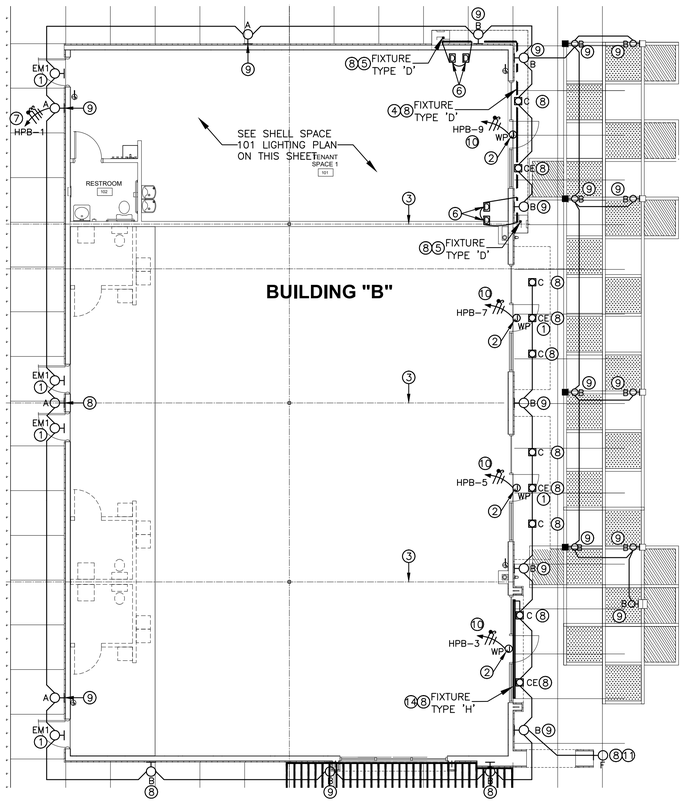
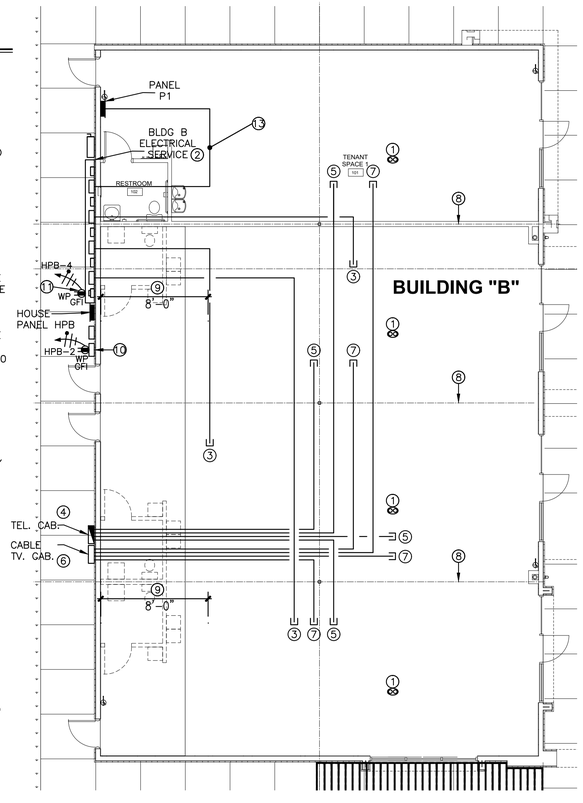


1 BLDG B LIGHTING PLAN

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

LIGHTING PLAN KEYED NOTES:

1. ALL EMERGENCY LIGHT BATTERY PACKS TO BE CONNECTED TO THE UNSWITCHED HOT CONDUCTOR SERVING THIS AREA.
2. PROVIDE AND INSTALL WP J-BOX FLUSH IN THE VERTICAL FACE OF THE WALL OF TENANT SPACE WITH CIRCUIT AS NOTED FOR SPACE SIGN. COORDINATE WITH ARCHITECT AND OWNER FOR EXACT LOCATION BEFORE ROUGH-IN. USE 3/4" CONDUIT WITH 2-#10 THWN CU. CONDRS. AND 1-#10 CU. GND. CIRCUIT TO BE WIRED THRU CONTACTOR C1. CONDUIT TO BE LABELED "TENANT SIGN XXX" WHERE XXX IS THE NUMBER OF SUITE SERVED. INTERIOR CONDUITS MUST BE PERMANENTLY LABELED, VISIBLE FROM BELOW CONDUIT. CONTRACTOR SHALL NOT COMBINE TENANT SIGN HOMERUNS INTO A SINGLE CONDUIT. PROVIDE ONE CONDUIT SYSTEM. SEE BLDG B LIGHTING CONTROL SCHEMATIC DETAIL 1/E3.1 ON SHEET E3.1.
3. CONTRACTOR SHALL NOT INSTALL ANY J-BOXES OR CONDUIT WITHIN 3FT. OF ANY FUTURE DEMISING WALLS FOR THE TENANT SPACES. COORDINATE WITH ARCHITECTURAL PLANS FOR DEMISING WALL LOCATIONS.
4. PROVIDE AND INSTALL A CONTINUOUS ROW OF LINEAR LIGHT FIXTURE TYPE D WITHIN EXTERIOR TOP COVE SPACE. LINEAR FIXTURE MUST REACH ENTIRE LENGTH OF COVE SPACE FROM END TO END. SEE COVE LIGHTING DETAIL 4/E6.0 ON SHEET E6.0.
5. PROVIDE AND INSTALL A CONTINUOUS ROW OF LINEAR LIGHT FIXTURE TYPE D WITHIN EXTERIOR VERTICAL COVE SPACE. LINEAR FIXTURE MUST REACH FROM TOP TO BOTTOM OF COVE SPACE. SEE COVE LIGHTING DETAIL 5/E6.0 ON SHEET E6.0.
6. PROVIDE AND INSTALL LIGHT FIXTURE TYPE D REMOTE DRIVERS ABOVE CEILING SPACE. MAKE CONNECTIONS TO EXTERIOR SWITCHED CIRCUIT CONTROLLED BY CONTACTOR 'C1'.
7. THIS CIRCUIT TO HAVE (2) SWITCHED CONDUCTORS. ONE SWITCHED CONDUCTOR TO BE CONTROLLED BY CONTACTOR 'C1' FOR A SCHEDULED OPERATION AND THE OTHER SWITCHED CONDUCTOR TO BE CONTROLLED BY CONTACTOR 'C2' FOR DUSK TO DAWN OPERATION. REFER TO BLDG B LIGHTING CONTROL SCHEMATIC DETAIL 1/E3.1 ON SHEET E3.1.
8. THIS LIGHT FIXTURE TO BE CONNECTED TO THE SWITCHED CONDUCTOR CONTROLLED BY CONTACTOR 'C1'. SEE BLDG B LIGHTING CONTROL SCHEMATIC DETAIL 1/E3.1 ON SHEET E3.1.
9. THIS LIGHT FIXTURE TO BE CONNECTED TO THE SWITCHED CONDUCTOR CONTROLLED BY CONTACTOR 'C2'. SEE BLDG B LIGHTING CONTROL SCHEMATIC DETAIL 1/E3.1 ON SHEET E3.1.
10. THIS CIRCUIT TO BE CONNECTED TO CONTACTOR 'C1'. SEE BLDG B LIGHTING CONTROL SCHEMATIC DETAIL 1/E3.1 ON SHEET E3.1.
11. INSTALL FIXTURE MOUNTED ON WALL @ 22'-0" A.F.F. POINTING DOWN.
12. CONNECT EMERGENCY AND EXIT SIGNS TO THE UNSWITCHED HOT CONDUCTOR SERVING THIS AREA.
13. PROVIDE AND INSTALL WALL MOUNTED, DUAL TECHNOLOGY, LINE VOLTAGE, OCCUPANCY SENSOR WATTSTOPPER MODEL DSW-301 OR EQUAL APPROVED BY ENGINEER, PROGRAM SENSOR FOR AUTO-ON/AUTO-OFF FUNCTION. AUTO-OFF FUNCTION TO BE SET TO TURN OFF ALL LIGHT SIN THIS ROOM AFTER 15 MIN. OF NO MOTION SENSING. SEE DETAIL 6/E6.0 ON SHEET E6.0.
14. THIS FIXTURE TO BE INSTALLED RECESSED TO THE TOP SOFFIT. SEE ELEVATION DETAIL FOR LOCATION.
15. RESTROOM EXHAUST FAN TO BE CONTROLLED BY THE LIGHTING SWITCH SENSOR.

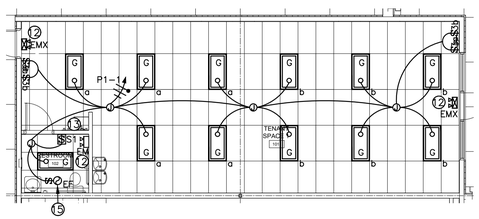


2 BLDG B POWER PLAN

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

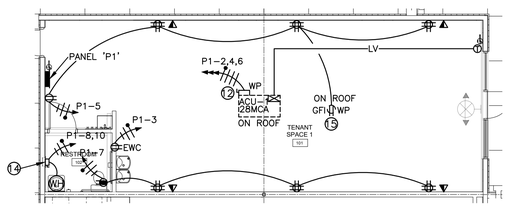
ELECTRICAL PLAN KEYED NOTES:

1. CONTRACTOR SHALL PROVIDE AND INSTALL (2) INDIVIDUAL ROOF PENETRATIONS WITH A WEATHER PROOF LEAD FLASHING. USE ONE INDIVIDUAL PENETRATION TO INSTALL A 1" CONDUIT FOR FIXTURE HVAC POWER WIRING. USE THE OTHER ROOF PENETRATION TO INSTALL 3/4" CONDUIT FOR FIXTURE HVAC CONDUIT WIRING. SEE DETAIL 1/E6.0 ON SHEET E6.0 FOR REQUIREMENTS. COORDINATE LOCATION WITH MECHANICAL PLANS.
2. LOCATION OF BLDG B ELECTRICAL SERVICE. SEE ELECTRICAL RISER DIAGRAM ON SHEET E3.1.
3. PROVIDE AND INSTALL 2" CONDUIT WITH PULLSTRING AND BUSHINGS FOR EACH FUTURE LEASE SPACE PANEL. RUN CONDUIT IN JOIST SPACE TO EACH LEASE SPACE FROM GUTTER. DO NOT RUN CONDUIT BELOW BOTTOM OF JOISTS. PULLSTRING TO BE NEPTCO MULETAPE OR EQUAL AND PROVIDED WITH TAGS AT BOTH ENDS. ALL CONDUITS AND J-BOXES MUST BE PERMANENTLY MARKED. CONDUIT TO BE LABELED "ELEC XXX" WHERE XXX IS THE NUMBER OF SUITE SERVED. INTERIOR CONDUITS MUST BE PERMANENTLY LABELED, VISIBLE FROM BELOW CONDUIT HAND WRITTEN MARKINGS WILL NOT BE ACCEPTED. COORDINATE WITH OWNER BEFORE DOING ANY WORK. SEE BLDG B ELECTRICAL RISER DIAGRAM ON SHEET E3.1.
4. PROPOSED LOCATION OF RAINTIGHT 24"WX24"HX6"D LOCKABLE HINGED TELEPHONE TERMINAL CABINET. REFER TO TELEPHONE/TV CABLE CABINET DETAIL ON SHEET E6.0 FOR MORE REQUIREMENTS.
5. PROVIDE AND INSTALL 1" CONDUIT WITH PULLSTRING AND BUSHINGS FOR TEL. WIRING, RUN CONDUIT IN JOIST SPACE TO EACH LEASE SPACE. DO NOT RUN CONDUIT BELOW BOTTOM OF JOISTS. PULLSTRING TO BE NEPTCO MULETAPE OR EQUAL AND PROVIDED WITH TAGS AND BOTH ENDS. CONDUIT TO BE LABELED "TEL XXX" WHERE XXX IS THE NUMBER OF SUITE SERVED. INTERIOR CONDUITS MUST BE PERMANENTLY LABELED, VISIBLE FROM BELOW CONDUIT. SEE DETAIL 2/E6.0 ON SHEET E6.0.
6. PROPOSED LOCATION OF RAINTIGHT 24"WX24"HX6"D LOCKABLE HINGED TV CABLE CABINET. REFER TO TELEPHONE/TV CABLE CABINET DETAIL ON SHEET E6.0 FOR MORE REQUIREMENTS.
7. PROVIDE AND INSTALL 1 1/4" CONDUIT WITH PULLSTRING AND BUSHINGS FOR CABLE TV WIRING, RUN CONDUIT IN JOIST SPACE TO EACH LEASE SPACE. DO NOT RUN CONDUIT BELOW BOTTOM OF JOISTS. PULLSTRING TO BE NEPTCO MULETAPE OR EQUAL AND PROVIDED WITH TAGS AT BOTH ENDS. CONDUIT TO BE LABELED "CABLE TV/SAT XXX" WHERE XXX IS THE NUMBER OF SUITE SERVED. INTERIOR CONDUITS MUST BE PERMANENTLY LABELED, VISIBLE FROM BELOW CONDUIT. COORDINATE WITH OWNER BEFORE DOING ANY WORK. SEE DETAIL 2/E6.0 ON SHEET E6.0.
8. CONTRACTOR SHALL NOT INSTALL ANY J-BOXES OR CONDUIT WITHIN 3FT. OF ANY FUTURE DEMISING WALLS FOR THE TENANT SPACES. COORDINATE WITH ARCHITECTURAL PLANS FOR DEMISING WALL LOCATIONS.
9. CONTRACTOR SHALL INSTALL ALL CONDUITS A MINIMUM OF 8FT. FROM THE FACE OF THE INTERIOR WALL. THIS AREA IS RESERVED FOR PLUMBING PIPING ONLY. COORDINATE WITH ALL CONTRACTORS.
10. APPROXIMATE LOCATION OF IRRIGATION CONTROLLER. CONTRACTOR SHALL PROVIDE AND INSTALL A WP/GFI RECEPTACLE WITH A WP BOX WITH METALLIC IN-USE COVER ADJACENT TO IRRIGATION CONTROLLER. COORDINATE WITH LANDSCAPE PLANS FOR EXACT LOCATION.
11. PROVIDE AND INSTALL A WP/GFI SERVICE OUTLET IN A WP BOX WITH IN-USE METALLIC COVER ADJACENT TO HOUSE PANEL.
12. PROVIDE AND INSTALL A 60AMP, 240V, 3P, HD, TYPE 3R, NON-FUSED DISCONNECT SWITCH FOR POWER TO ROOF TOP UNIT. MAKE CONNECTIONS TO UNIT WITH FLEXIBLE WATERTIGHT CONDUIT. USE A 3/4" CONDUIT WITH 3-#8 THWN. CU. CONDRS AND 1-#10 CU. GND. USE THE ROOF PENETRATION LEAD FLASHING TO INSTALL NEW POWER AND CONTROL CONDUITS.
13. INSTALL A 2 1/2" CONDUIT WITH 4-#3/0 THWN. CU. CONDRS AND 1-#6 CU. GND. FROM MAIN DISCONNECT SWITCH FOR SHELL SPACE TO PANEL 'P1' AS SHOWN. SEE ELECTRICAL RISER DIAGRAM ON SHEET E3.1.
14. PROVIDE AND INSTALL A 30AMP, 240V, 2P, HD, NON-FUSED DISCONNECT FOR POWER TO ELECTRIC WATER HEATER. INSTALL DISCONNECT ADJACENT TO WATER HEATER AND MAKE CONNECTIONS WITH FLEXIBLE WATER TIGHT CONDUIT. USE A 1/2" CONDUIT WITH 2-#10 THWN. CU. CONDRS AND 1-#10 CU. GND. COORDINATE WITH PLUMBING PLANS FOR EXACT LOCATION.
15. PROVIDE NAD INSTALL A WP/GFI RECEPTACLE ON ROOF IN A WP BOX WITH IN-USE METALLIC COVER TO COMPLY WITH NEC 210.63.



1 SHELL SPACE 101 LIGHTING PLAN

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



1 SHELL SPACE 101 POWER PLAN

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

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BLDG B LIGHTING & POWER PLANS

COMMISSION No. 00-000

DATE: 08/10/2022

REVISIONS

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SHEET: **E3.0**

5 OF 15

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ALEX MEJIA
56294
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8/10/23

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CONSTRUCTION DOCUMENTS

PANELBOARD SCHEDULE

PANELBOARD "HPB": 120/208V, 3 PHASE, 4 WIRE, 125 AMP. 60A MAIN C.B.
SURFACE MOUNTED, COPPER BUS, DOOR–WITHIN–DOOR, 14KAIC, TYPE 3R

	CKT. NO.	BREAKER AMPS, POLE	PHASE A B C	BREAKER AMPS, POLE	CKT. NO.	LOAD SERVED
BLDG B LIGHTS (1)	1	20/1		20/1	2	IRRIGATION CONTROLLER
SHELL SPACE 1 SIGN (2)	3	20/1		20/1	4	SERVICE OUTLET
SHELL SPACE 2 SIGN (2)	5	20/1		20/1	6	LIGHTING CONTROLS
SHELL SPACE 3 SIGN (2)	7	20/1		---	8	SPACE
SHELL SPACE 4 SIGN (2)	9	20/1		---	10	SPACE
SPACE	11	---		---	12	SPACE
SPACE	13	---		---	14	SPACE
SPACE	15	---		---	16	SPACE
SPACE	17	---		---	18	SPACE

(1) THIS CIRCUIT TO BE CONNECTED TO CONTACTOR 'C1' AND 'C2' RESPECTIVELY. SEE BLDG A LIGHTING CONTROL SCHEMATIC ON THIS SHEET.
(2) THIS CIRCUIT TO BE CONNECTED TO CONTACTOR C1 CONTROLLED BY TIMER. SEE BLDG A LIGHTING CONTROL SCHEMATIC ON THIS SHEET.

PANELBOARD 'HPB' LOAD CALCULATIONS

	LOAD (VA)
LIGHTING @125%	1800
TENANT SIGNS @ 4	2400
OUTLETS	720
HEATERS	2000
TOTAL	6,920 VA

I = 6,920VA/(208V)(1.73) = 19 AMPS
PANELBOARD HPB 125AMPS, 120/208V, 3 PH., 4W FED FROM HOUSE DISCONNECT FUSED AT 60AMPS WITH 1" C WITH 4–#6 THWN CU. AND 1–#8 CU. GND.

PANELBOARD SCHEDULE

PANELBOARD "P1": 120/208V, 3 PHASE, 4 WIRE, 225 AMP. 200A MAIN C.B.
SURFACE MOUNTED, COPPER BUS, DOOR–WITHIN–DOOR, 14KAIC

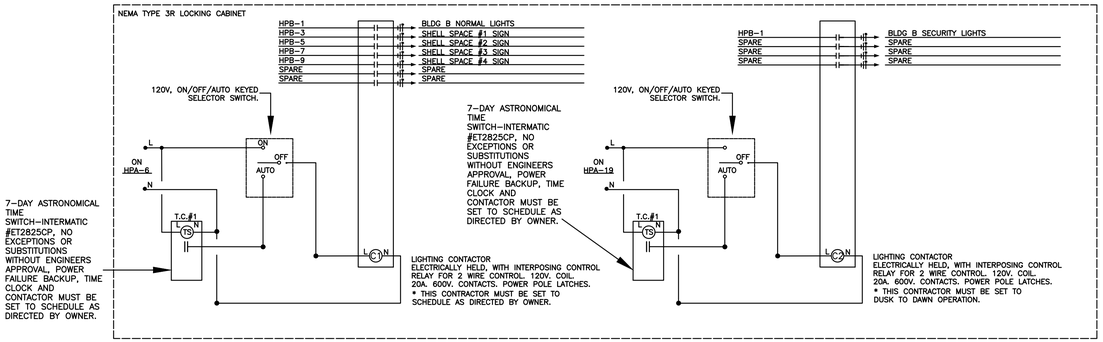
	CKT. NO.	BREAKER AMPS, POLE	PHASE A B C	BREAKER AMPS, POLE	CKT. NO.	LOAD SERVED
LIGHTING	1	20/1		40 / 3	2	AC UNIT
EWC (1)	3	20/1			4	208V, 3PH
RECEPTACLES NORTH	5	20/1			6	28 MCA
RECEPTACLES SOUTH	7	20/1		25 / 2	8	ELECTRICAL WATER HEATER
SPACE	9	---			10	
SPACE	11	---		---	12	SPACE
SPACE	13	---		---	14	SPACE
SPACE	15	---		---	16	SPACE
SPACE	17	---		---	18	SPACE
SPACE	19	---		---	20	SPACE
SPACE	21	---		---	22	SPACE
SPACE	23	---		---	24	SPACE
SPACE	25	---		---	26	SPACE
SPACE	27	---		---	28	SPACE
SPACE	29	---		---	30	SPACE
SPACE	31	---		---	32	SPACE
SPACE	33	---		---	34	SPACE
SPACE	35	---		---	36	SPACE
SPACE	37	---		---	38	SPACE
SPACE	39	---		---	40	SPACE
SPACE	41	---		---	42	SPACE

(1) THIS CIRCUIT BREAKER TO BE GFCI TYPE.

PANELBOARD 'P1' LOAD CALCULATIONS

	LOAD (VA)
LIGHTING @125%	600
RECEPTACLES	2,520
EWC	1,200
WH–1	4,500
AC UNIT @ 125%	12,600
TOTAL	21,240 VA

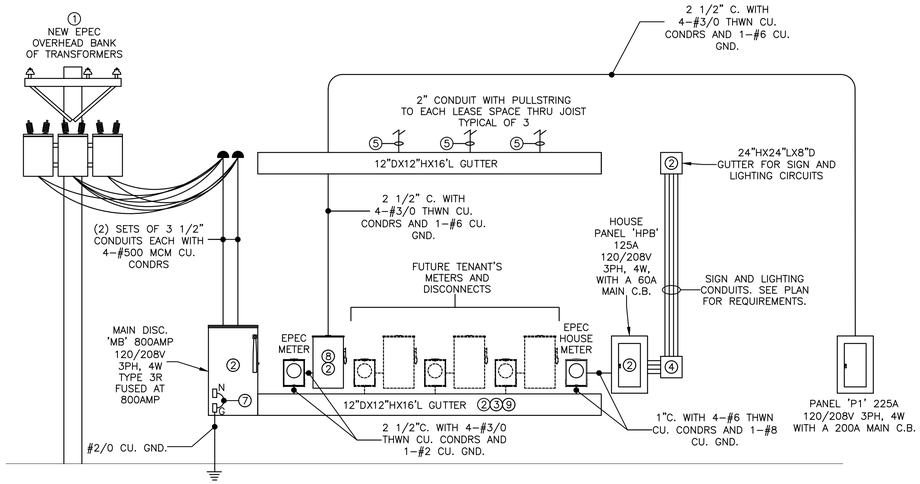
I = 21,240VA/(208V)(1.73) = 60 AMPS
225AMP, 120/208V, 3PH., 4W PANEL 'P1' FED FROM DISCONNECT 'P1' FUSED AT 200AMPS WITH 2 1/2" C WITH 4–#3/0 THWN CU. CONDRS AND 1–#6 CU. GND.



* CONTRACTOR MUST PROVIDE 1HR TRAINING SESSION TO OWNER MAINTENANCE PERSONNEL ON OPERATION AND MAINTENANCE OF LIGHTING CONTROLS (TIMER AND CONTRACTORS). CONTRACTOR MUST PROGRAM TIMER SCHEDULE AS REQUIRED BY OWNER AT TIME OF TRAINING SESSION.

1 E3.1 BLDG B LIGHTING CONTROL SCHEMATIC

NTS



2 E3.1 ELECTRICAL SERVICE B

NTS

RISER DIAGRAM KEYED NOTES:

1. CONTRACTOR MUST COORDINATE WITH EPEC AS SOON AS CONTRACT IS LET FOR NEW ELECTRICAL SERVICE.
2. ALL ELECTRICAL GEAR MUST BE LABELED WITH 8" PAINTED LETTERING IN BLACK COLOR. ALL ELECTRICAL EQUIPMENT MUST BE PROVIDED WITH TAMPER PROOF SCREWS. COORDINATE WITH ARCHITECT BEFORE LABELING. REFER TO ARCHITECTURAL PLANS FOR EXACT LABELING REQUIREMENTS.
3. GUTTER MUST BE PROVIDED WITH ILSCO POWER DISTRIBUTION BLOCKS. PROVIDE ONE POWER DISTRIBUTION BLOCK FOR EACH PHASE, NEUTRAL, AND GROUND. INSTALL POWER DISTRIBUTION BLOCKS AT THREE POINTS INSIDE GUTTER, EQUALLY SPACED.
4. INSTALL LIGHTING CONTACTORS IN NEMA TYPE 3R ENCLOSURE.
5. 2" CONDUIT FOR FUTURE ELECTRICAL CONDUCTORS. RUN FROM UPPER GUTTER TO TENANT SPACE. PROVIDE PULLSTRING WITH LINEN LABELED IN EXTERIOR GUTTER. PROVIDE BUSHINGS ON STUB ENDS. CONDUIT TO BE LABELED "ELEC XXX" WHERE XXX IS THE NUMBER OF SUITE SERVED. INTERIOR CONDUITS MUST BE PERMANENTLY LABELED, VISIBLE FROM BELOW CONDUIT.
6. PROVIDE AND INSTALL LIGHTING CONTROL CABINET FOR BLDG. 'B' WITH:
   ONE (1) 8–POLE CONTACTOR C1 FOR CIRCUITS HPB–1,3,5,7, AND 9 CONTROLLED BY TIME CLOCK FOR SUNSET 'ON', TIMER 'OFF'.
   ONE (1) 4–POLE CONTACTOR C2 FOR CIRCUIT HPB–1 CONTROLLED BY TIME CLOCK FOR DUSK TO DAWN OPERATION. SEE BLDG B LIGHTING CONTROL SCHEMATIC ON THIS SHEET.
7. MAIN BUILDING JUMPER TO BE 1–#2/0 CU. ACCORDING TO THE NEC ARTICLE 250.102(C)(1)TABLE.
8. PROVIDE AND INSTALL A 200AMP, 240V, 3POLE, 4W, HD, TYPE 3R, DISCONNECT FUSED AT 200AMPS FOR POWER TO NEW TENANT PANEL AS SHOWN.
9. EXTEND THE NEW (2) SETS OF #500 MCM CONDRS AND THE NEW #1/0 CU. GND. FROM MAIN DISCONNECT THROUGHOUT R.T. GUTTER. MAKE CONNECTIONS TO THE ILSCO BLOCKS AS REQUIRED.

FAULT CALCULATIONS

150 KVA TRANSFORMER, 120/208V, 3PH., Z =3.5%
I(MAX) = 150,000/(208)(1.732)= 417AMPS
I(FAULT) = 417A/ .035 = 11.9KA
FUSES MUST HAVE 14KA MIN. INT. CAPABILITY

MAIN DISCONNECT 'MB' LOAD CALCULATIONS

	LOAD (AMPS)
(3) TYPICAL 1000 S.Q. F.T. SPACE	265
HOUSE PANEL 'HPB'	19
TENANT PANEL 'P1'	60
TOTAL	244 AMPS

MAIN DISCONNECT 'MB' 800 AMP, 120/208V 3PH, 4W, TYPE 3R FED FROM EPEC TRANSFORMERS WITH (2) SETS OF 3 1/2" CONDUITS EA/W 4–#500MCM CU. CONDRS AND 1–#2/0 CU. SERVICE GND.

FUTURE SPACE LOAD CALCULATIONS

TYPICAL 1,000 SQ. FT. SPACE

	LOAD (VA)
LIGHTING 1,000 S.Q. F.T. X 3.5VA @ 125%	4,375
OUTLETS 1,000 S.Q. F.T. X 1VA	1,000
HVAC 1,000 S.Q. F.T. X 10VA	10,000
ELECTRIC WATER HEATER	4,500
TOTAL	19,875 VA

I = 19,875 VA/ (208V)(1.73) = 55 AMPS
FUTURE 100A, 120/208V, 3PH., 3P. TYPE 3R DISCONNECT 'XX' FUSED AT 100A. WHERE 'XX' IS THE NUMBER OF SUITE SERVED.

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REGISTRATION # F005236

CONSTRUCTION DOCUMENTS

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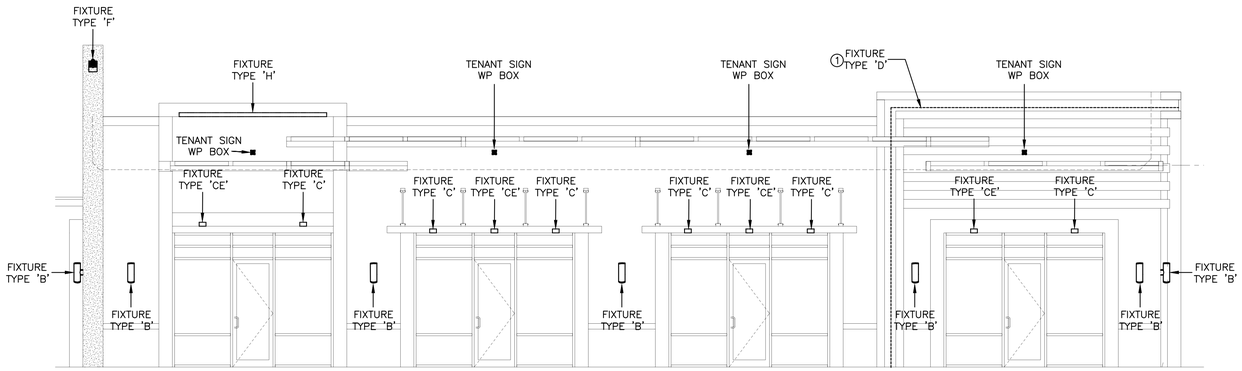
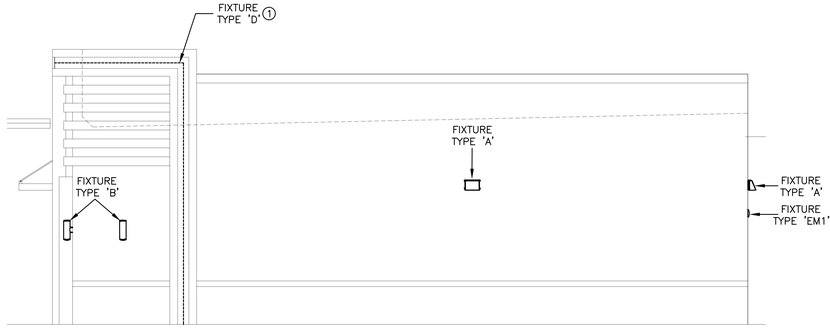


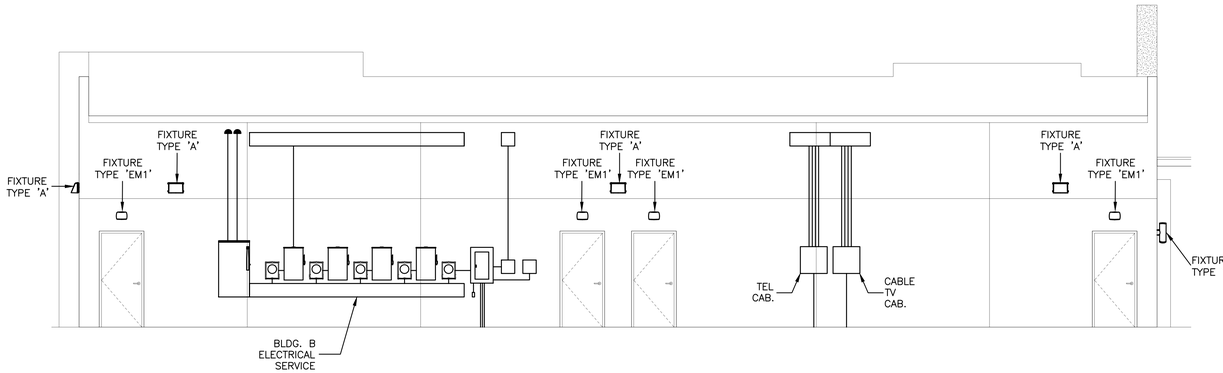
1 E3.2 BLDG B LIGHTING EAST ELEVATION

3/16 = 1'-0"



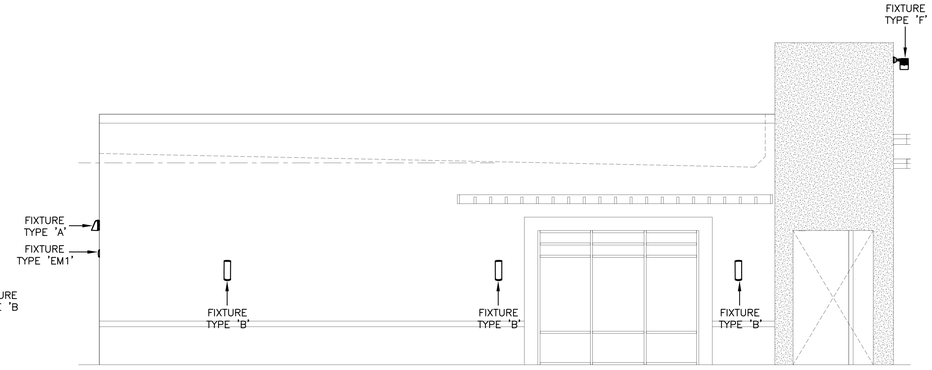
1 E3.2 BLDG B LIGHTING NORTH ELEVATION

3/16 = 1'-0"



3 E3.2 BLDG B LIGHTING WEST ELEVATION

3/16 = 1'-0"



4 E3.2 BLDG B LIGHTING SOUTH ELEVATION

3/16 = 1'-0"

RISER DIAGRAM KEYED NOTES:

① FIXTURE TYPE 'D' TO BE INSTALLED WITHIN THE ENTIRE COVE SPACE. COORDINATE WITH NOTES #4 AND #5 ON SHEET E3.0.

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BLDG B EXTERIOR ELEVATIONS

COMMISSION No. 00-000

DATE: 08/10/2022

REVISIONS

#	Description	Date

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1818 E. RIO GRANDE • EL PASO, TEXAS 79902
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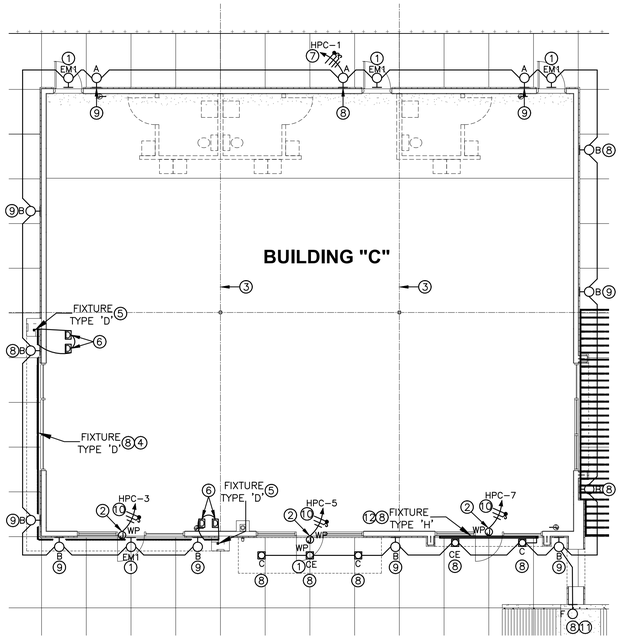
STATE OF TEXAS — JOHN E. ORTEGA — 96294 — REGISTERED PROFESSIONAL ENGINEER — 8/10/23

CONSTRUCTION DOCUMENTS

SHEET: **E3.2**

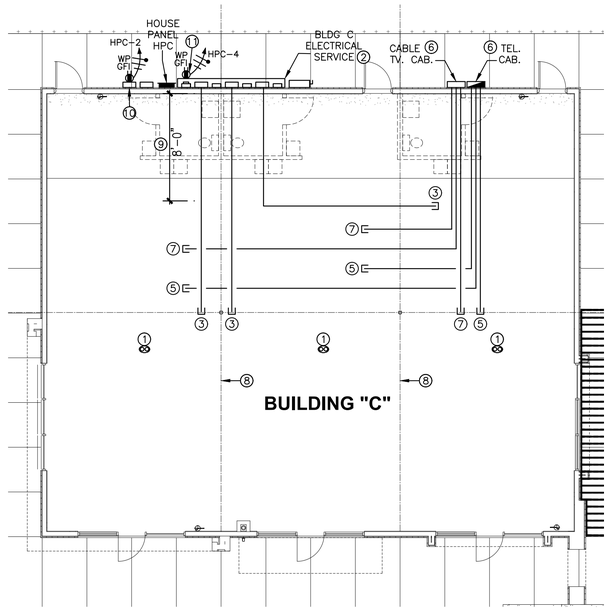


1 BLDG C LIGHTING PLAN

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

LIGHTING PLAN KEYED NOTES:

1. ALL EMERGENCY LIGHT BATTERY PACKS TO BE CONNECTED TO THE UNSWITCHED HOT CONDUCTOR SERVING THIS AREA.
2. PROVIDE AND INSTALL WP J-BOX FLUSH IN THE VERTICAL FACE OF THE WALL OF TENANT SPACE WITH CIRCUIT AS NOTED FOR SPACE SIGN. COORDINATE WITH ARCHITECT AND OWNER FOR EXACT LOCATION BEFORE ROUGH-IN. USE 3/4" CONDUIT WITH 2-#10 THWN CU. CONDRS. AND 1-#10 CU. GND. CIRCUIT TO BE WIRED THRU CONTACTOR C1. CONDUIT TO BE LABELED "TENANT SIGN XXX" WHERE XXX IS THE NUMBER OF SUITE SERVED. INTERIOR CONDUITS MUST BE PERMANENTLY LABELED, VISIBLE FROM BELOW CONDUIT. CONTRACTOR SHALL NOT COMBINE TENANT SIGN HOMERUNS INTO A SINGLE CONDUIT. PROVIDE ONE CONDUIT SYSTEM. SEE BLDG C LIGHTING CONTROL SCHEMATIC DETAIL 1/E4.1 ON SHEET E4.1.
3. CONTRACTOR SHALL NOT INSTALL ANY J-BOXES OR CONDUIT WITHIN 3FT. OF ANY FUTURE DEMISING WALLS FOR THE TENANT SPACES. COORDINATE WITH ARCHITECTURAL PLANS FOR DEMISING WALL LOCATIONS.
4. PROVIDE AND INSTALL A CONTINUOUS ROW OF LINEAR LIGHT FIXTURE TYPE D WITHIN EXTERIOR TOP COVE SPACE. LINEAR FIXTURE MUST REACH ENTIRE LENGTH OF COVE SPACE FROM END TO END. SEE COVE LIGHTING DETAIL 4/E6.0 ON SHEET E6.0.
5. PROVIDE AND INSTALL A CONTINUOUS ROW OF LINEAR LIGHT FIXTURE TYPE D WITHIN EXTERIOR VERTICAL COVE SPACE. LINEAR FIXTURE MUST REACH FROM TOP TO BOTTOM OF COVE SPACE. SEE COVE LIGHTING DETAIL 5/E6.0 ON SHEET E6.0.
6. PROVIDE AND INSTALL LIGHT FIXTURE TYPE D REMOTE DRIVERS ABOVE CEILING SPACE. MAKE CONNECTIONS TO EXTERIOR SWITCHED CIRCUIT CONTROLLED BY CONTACTOR 'C1'.
7. THIS CIRCUIT TO HAVE (2) SWITCHED CONDUCTORS. ONE SWITCHED CONDUCTOR TO BE CONTROLLED BY CONTACTOR 'C1' FOR A SCHEDULED OPERATION AND THE OTHER SWITCHED CONDUCTOR TO BE CONTROLLED BY CONTACTOR 'C2' FOR DUSK TO DAWN OPERATION. REFER TO BLDG C LIGHTING CONTROL SCHEMATIC DETAIL 1/E4.1 ON SHEET E4.1.
8. THIS LIGHT FIXTURE TO BE CONNECTED TO THE SWITCHED CONDUCTOR CONTROLLED BY CONTACTOR 'C1'. SEE BLDG C LIGHTING CONTROL SCHEMATIC DETAIL 1/E4.1 ON SHEET E4.1.
9. THIS LIGHT FIXTURE TO BE CONNECTED TO THE SWITCHED CONDUCTOR CONTROLLED BY CONTACTOR 'C2'. SEE BLDG C LIGHTING CONTROL SCHEMATIC DETAIL 1/E4.1 ON SHEET E4.1.
10. THIS CIRCUIT TO BE CONNECTED TO CONTACTOR 'C1' THAT IS CONTROLLED BY A TIME CLOCK. SEE BLDG C LIGHTING CONTROL SCHEMATIC DETAIL 1/E4.1 ON SHEET E4.1.
11. INSTALL FIXTURE MOUNTED ON WALL @ 22'-0" A.F.F. POINTING DOWN.
12. THIS FIXTURE TO BE INSTALLED RECESSED TO THE TOP SOFFIT. SEE ELEVATION DETAIL FOR LOCATION.



2 BLDG C POWER PLAN

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

ELECTRICAL PLAN KEYED NOTES:

1. CONTRACTOR SHALL PROVIDE AND INSTALL (2) INDIVIDUAL ROOF PENETRATIONS WITH A WEATHER PROOF LEAD FLASHING. USE ONE INDIVIDUAL PENETRATION TO INSTALL A 1" CONDUIT FOR FIXTURE HVAC POWER WIRING. USE THE OTHER ROOF PENETRATION TO INSTALL 3/4" CONDUIT FOR FIXTURE HVAC CONDUIT WIRING. SEE DETAIL 1/E6.0 ON SHEET E6.0 FOR REQUIREMENTS. COORDINATE LOCATION WITH MECHANICAL PLANS.
2. LOCATION OF BLDG C ELECTRICAL SERVICE. SEE ELECTRICAL RISER DIAGRAM ON SHEET E4.1.
3. PROVIDE AND INSTALL 2" CONDUIT WITH PULLSTRING AND BUSHINGS FOR EACH FUTURE LEASE SPACE PANEL. RUN CONDUIT IN JOIST SPACE TO EACH LEASE SPACE FROM GUTTER. DO NOT RUN CONDUIT BELOW BOTTOM OF JOISTS. PULLSTRING TO BE NEPTCO MULETAPE OR EQUAL AND PROVIDED WITH TAGS AT BOTH ENDS. ALL CONDUITS AND J-BOXES MUST BE PERMANENTLY MARKED. CONDUIT TO BE LABELED "ELEC XXX" WHERE XXX IS THE NUMBER OF SUITE SERVED. INTERIOR CONDUITS MUST BE PERMANENTLY LABELED, VISIBLE FROM BELOW CONDUIT HAND WRITTEN MARKINGS WILL NOT BE ACCEPTED. COORDINATE WITH OWNER BEFORE DOING ANY WORK. SEE BLDG C ELECTRICAL RISER DIAGRAM ON SHEET E4.1.
4. PROPOSED LOCATION OF RAINTIGHT 24"WX24"HX6"D LOCKABLE HINGED TELEPHONE TERMINAL CABINET. REFER TO TELEPHONE/TV CABLE CABINET DETAIL ON SHEET E6.0 FOR MORE REQUIREMENTS.
5. PROVIDE AND INSTALL 1" CONDUIT WITH PULLSTRING AND BUSHINGS FOR TEL. WIRING, RUN CONDUIT IN JOIST SPACE TO EACH LEASE SPACE. DO NOT RUN CONDUIT BELOW BOTTOM OF JOISTS. PULLSTRING TO BE NEPTCO MULETAPE OR EQUAL AND PROVIDED WITH TAGS AND BOTH ENDS. CONDUIT TO BE LABELED "TEL XXX" WHERE XXX IS THE NUMBER OF SUITE SERVED. INTERIOR CONDUITS MUST BE PERMANENTLY LABELED, VISIBLE FROM BELOW CONDUIT. SEE DETAIL 2/E6.0 ON SHEET E6.0.
6. PROPOSED LOCATION OF RAINTIGHT 24"WX24"HX6"D LOCKABLE HINGED TV CABLE CABINET. REFER TO TELEPHONE/TV CABLE CABINET DETAIL ON SHEET E6.0 FOR MORE REQUIREMENTS.
7. PROVIDE AND INSTALL 1 1/4" CONDUIT WITH PULLSTRING AND BUSHINGS FOR CABLE TV WIRING, RUN CONDUIT IN JOIST SPACE TO EACH LEASE SPACE. DO NOT RUN CONDUIT BELOW BOTTOM OF JOISTS. PULLSTRING TO BE NEPTCO MULETAPE OR EQUAL AND PROVIDED WITH TAGS AT BOTH ENDS. CONDUIT TO BE LABELED "CABLE TV/SAT XXX" WHERE XXX IS THE NUMBER OF SUITE SERVED. INTERIOR CONDUITS MUST BE PERMANENTLY LABELED, VISIBLE FROM BELOW CONDUIT. COORDINATE WITH OWNER BEFORE DOING ANY WORK. SEE DETAIL 2/E6.0 ON SHEET E6.0.
8. CONTRACTOR SHALL NOT INSTALL ANY J-BOXES OR CONDUIT WITHIN 3FT. OF ANY FUTURE DEMISING WALLS FOR THE TENANT SPACES. COORDINATE WITH ARCHITECTURAL PLANS FOR DEMISING WALL LOCATIONS.
9. CONTRACTOR SHALL INSTALL ALL CONDUITS A MINIMUM OF 8FT. FROM THE FACE OF THE INTERIOR WALL. THIS AREA IS RESERVED FOR PLUMBING PIPING ONLY. COORDINATE WITH ALL CONTRACTORS.
10. APPROXIMATE LOCATION OF IRRIGATION CONTROLLER. CONTRACTOR SHALL PROVIDE AND INSTALL A WP/GFI RECEPTACLE WITH A WP BOX WITH METALLIC IN-USE COVER ADJACENT TO IRRIGATION CONTROLLER. COORDINATE WITH LANDSCAPE PLANS FOR EXACT LOCATION.
11. PROVIDE AND INSTALL A WP/GFI SERVICE OUTLET IN A WP BOX WITH IN-USE METALLIC COVER ADJACENT TO HOUSE PANEL.

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EDWIN W. CADILLA
5294
REGISTERED
PROFESSIONAL ENGINEER
8/10/23

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CONSTRUCTION DOCUMENTS

BLDG C LIGHTING & POWER PLANS

COMMISSION No. 00-000

DATE: 08/10/2022

REVISIONS

#	Description	Date

SHEET: **E4.0**

8 OF 15

MAIN DISCONNECT 'MC' LOAD CALCULATIONS

	LOAD (AMPS)
(3) TYPICAL 1000 S.Q. F.T. SPACE	165
HOUSE PANEL 'HPC'	19
TOTAL	184 AMPS

MAIN DISCONNECT 'MC' 600 AMP, 120/208V 3PH, 4W, TYPE 3R FED FROM EPEC TRANSFORMERS WITH (2) SETS OF 3 1/2" CONDUITS EA/W 4–#350MCM CU. CONDRS AND 1–#2/0 CU. SERVICE GND.

FUTURE SPACE LOAD CALCULATIONS

TYPICAL 1,000 SQ. FT. SPACE

	LOAD (VA)
LIGHTING 1,000 S.Q. F.T. X 3.5VA @ 125%	4,375
OUTLETS 1,000 S.Q. F.T. X 1VA	1,000
HVAC 1,000 S.Q. F.T. X 10VA	10,000
ELECTRIC WATER HEATER	4,500
TOTAL	19,875 VA

I = 19,875 VA/ (208V)(1.73) = 55 AMPS
FUTURE 100A, 120/208V, 3PH., 3P. TYPE 3R DISCONNECT 'XX'
FUSED AT 100A. WHERE 'XX' IS THE NUMBER OF SUITE SERVED.

PANELBOARD SCHEDULE

PANELBOARD "HPC": 120/208V, 3 PHASE, 4 WIRE, 125 AMP. 60A MAIN C.B. SURFACE MOUNTED, COPPER BUS, DOOR–WITHIN–DOOR, 14KAIC, TYPE 3R

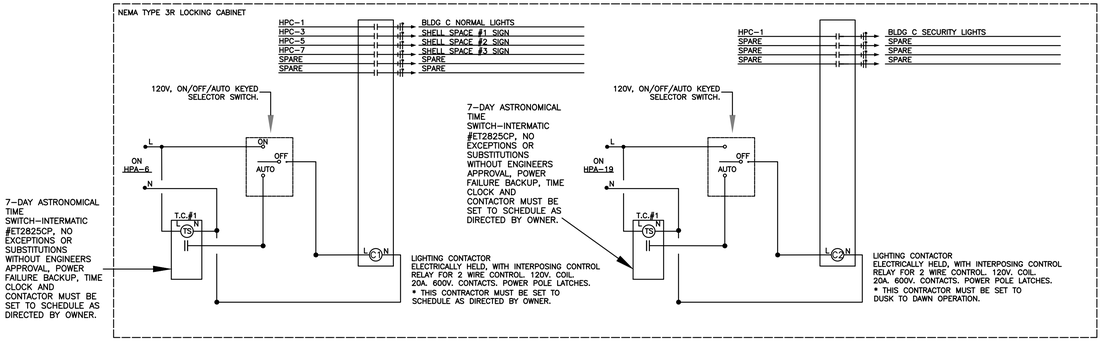
	CKT. NO.	BREAKER AMPS, POLE	PHASE A B C	BREAKER AMPS, POLE	CKT. NO.	LOAD SERVED
BLDG C LIGHTS (1)	1	20/1		20/1	2	IRRIGATION CONTROLLER
SHELL SPACE 1 SIGN (2)	3	20/1		20/1	4	SERVICE OUTLET
SHELL SPACE 2 SIGN (2)	5	20/1		20/1	6	LIGHTING CONTROLS
SHELL SPACE 3 SIGN (2)	7	20/1		---	8	SPACE
SPACE	9	---		---	10	SPACE
SPACE	11	---		---	12	SPACE
SPACE	13	---		---	14	SPACE
SPACE	15	---		---	16	SPACE
SPACE	17	---		---	18	SPACE

(1) THIS CIRCUIT TO BE CONNECTED TO CONTACTOR 'C1' AND 'C2' RESPECTIVELY. SEE BLDG A LIGHTING CONTROL SCHEMATIC ON THIS SHEET.
(2) THIS CIRCUIT TO BE CONNECTED TO CONTACTOR C1 CONTROLLED BY TIMER. SEE BLDG A LIGHTING CONTROL SCHEMATIC ON THIS SHEET.

PANELBOARD 'HPC' LOAD CALCULATIONS

	LOAD (VA)
LIGHTING @125%	1800
TENANT SIGNS @ 3	1800
OUTLETS	720
HEATERS	2000
TOTAL	6,320 VA

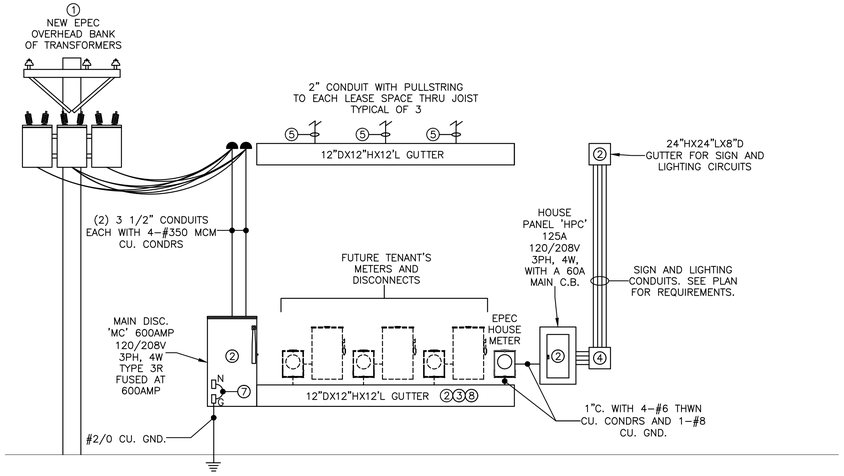
I = 6,320VA/(208V)(1.73) = 18 AMPS
PANELBOARD HPC 125AMPS, 120/208V, 3 PH., 4W FED FROM HOUSE DISCONNECT FUSED AT 60AMPS WITH 1" C WITH 4–#6 THWN CU. AND 1–#8 CU. GND.



* CONTRACTOR MUST PROVIDE 1HR TRAINING SESSION TO OWNER MAINTENANCE PERSONNEL ON OPERATION AND MAINTENANCE OF LIGHTING CONTROLS (TIMER AND CONTRACTORS). CONTRACTOR MUST PROGRAM TIMER SCHEDULE AS REQUIRED BY OWNER AT TIME OF TRAINING SESSION.

1 E4.1 BLDG C LIGHTING CONTROL SCHEMATIC

NTS



2 E4.1 ELECTRICAL SERVICE C

NTS

RISER DIAGRAM KEYED NOTES:

1. CONTRACTOR MUST COORDINATE WITH EPEC AS SOON AS CONTRACT IS LET FOR NEW ELECTRICAL SERVICE.
2. ALL ELECTRICAL GEAR MUST BE LABELED WITH 8" PAINTED LETTERING IN BLACK COLOR. ALL ELECTRICAL EQUIPMENT MUST BE PROVIDED WITH TAMPER PROOF SCREWS. COORDINATE WITH ARCHITECT BEFORE LABELING. REFER TO ARCHITECTURAL PLANS FOR EXACT LABELING REQUIREMENTS.
3. GUTTER MUST BE PROVIDED WITH ILSCO POWER DISTRIBUTION BLOCKS. PROVIDE ONE POWER DISTRIBUTION BLOCK FOR EACH PHASE, NEUTRAL, AND GROUND. INSTALL POWER DISTRIBUTION BLOCKS AT THREE POINTS INSIDE GUTTER, EQUALLY SPACED.
4. INSTALL LIGHTING CONTACTORS IN NEMA TYPE 3R ENCLOSURE.
5. 2" CONDUIT FOR FUTURE ELECTRICAL CONDUCTORS. RUN FROM UPPER GUTTER TO TENANT SPACE. PROVIDE PULLSTRING WITH LINEN LABELED IN EXTERIOR GUTTER. PROVIDE BUSHINGS ON STUB ENDS. CONDUIT TO BE LABELED "ELEC XXX" WHERE XXX IS THE NUMBER OF SUITE SERVED. INTERIOR CONDUITS MUST BE PERMANENTLY LABELED, VISIBLE FROM BELOW CONDUIT.
6. PROVIDE AND INSTALL LIGHTING CONTROL CABINET FOR BLDG. 'C' WITH:
   ONE (1) 8–POLE CONTACTOR C1 FOR CIRCUITS HPC–1,3,5, AND 7 CONTROLLED BY TIME CLOCK FOR SUNSET 'ON', TIMER 'OFF'.
   ONE (1) 4–POLE CONTACTOR C2 FOR CIRCUIT HPC–1 CONTROLLED BY TIME CLOCK FOR DUSK TO DAWN OPERATION. SEE BLDG C LIGHTING CONTROL SCHEMATIC ON THIS SHEET.
7. MAIN BUILDING JUMPER TO BE 1–#2/0 CU. ACCORDING TO THE NEC ARTICLE 250.102(C)(1)TABLE.
8. EXTEND THE NEW (2) SETS OF #350 MCM CONDRS AND THE NEW #1/0 CU. GND. FROM MAIN DISCONNECT THROUGHOUT R.T. GUTTER. MAKE CONNECTIONS TO THE ILSCO BLOCKS AS REQUIRED.

FAULT CALCULATIONS

150 KVA TRANSFORMER, 120/208V, 3PH., Z =3.5%
I(MAX) = 150,000/(208)(1.732)= 417AMPS
I(FAULT) = 417A/ .035 = 11.9KA
FUSES MUST HAVE 14KA MIN. INT. CAPABILITY

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BLDG C ELECTRICAL RISER & PANEL SCHEDULE

COMMISSION No. 00-000
DATE: 08/10/2022
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9 OF 15

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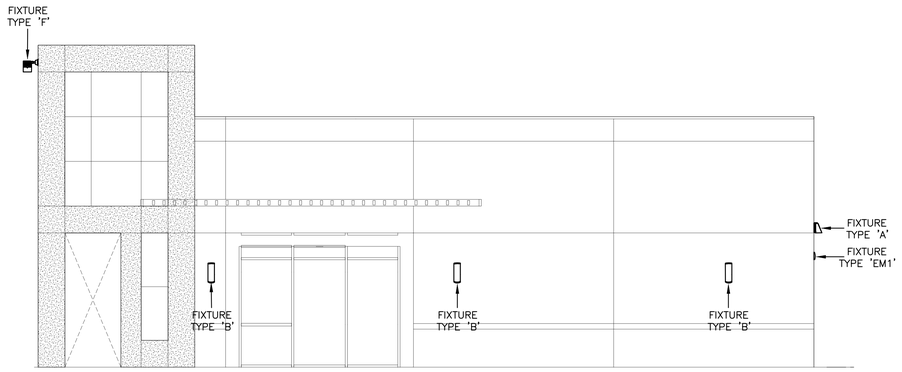
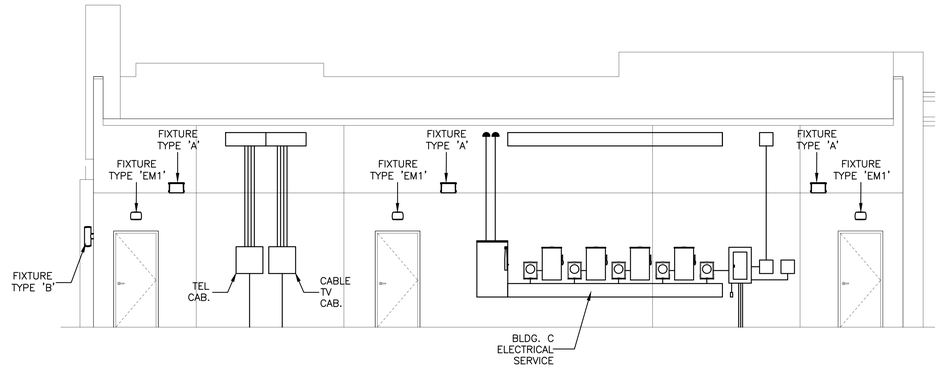


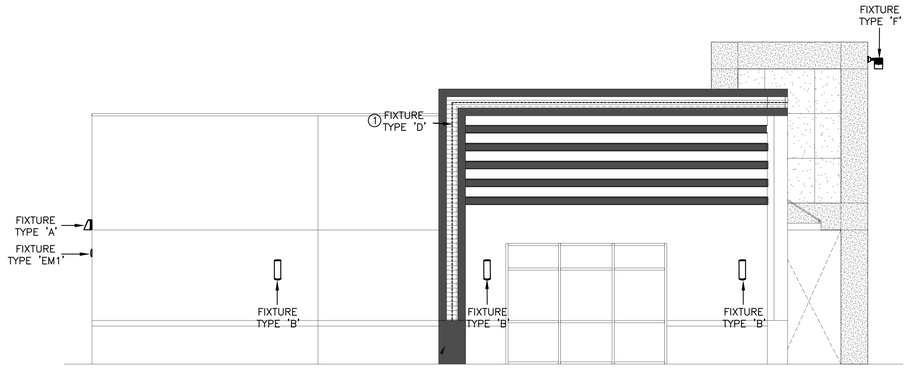
1 E4.2 BLDG C LIGHTING EAST ELEVATION

3/16 = 1'-0"



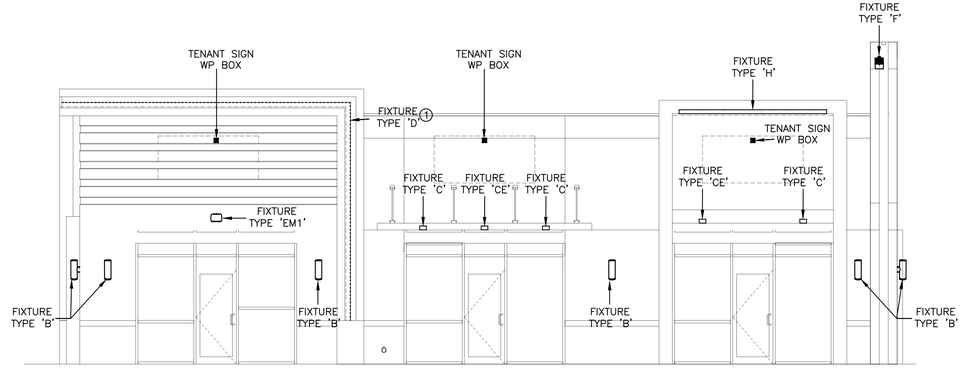
2 E4.2 BLDG C LIGHTING NORTH ELEVATION

3/16 = 1'-0"



3 E4.2 BLDG C LIGHTING WEST ELEVATION

3/16 = 1'-0"



4 E4.2 BLDG C LIGHTING SOUTH ELEVATION

3/16 = 1'-0"

RISER DIAGRAM KEYED NOTES:

1. FIXTURE TYPE 'D' TO BE INSTALLED WITHIN THE ENTIRE COVE SPACE. COORDINATE WITH NOTES #4 AND #5 ON SHEET E3.0.

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BLDG C EXTERIOR ELEVATIONS

COMMISSION No. 00-000

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SHEET: **E4.2**

10 OF 15

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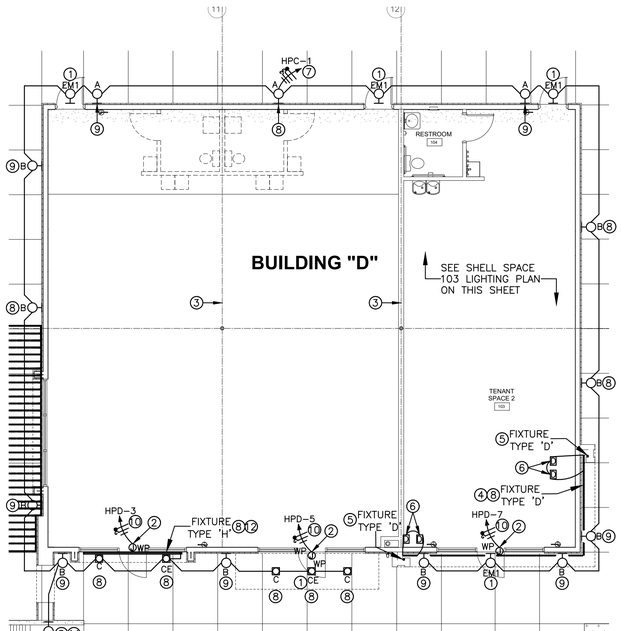
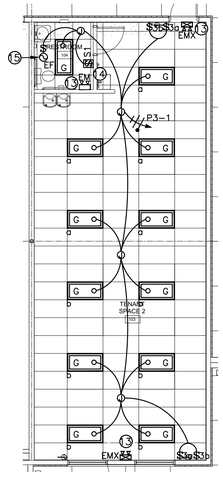


1 BLDG D LIGHTING PLAN

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

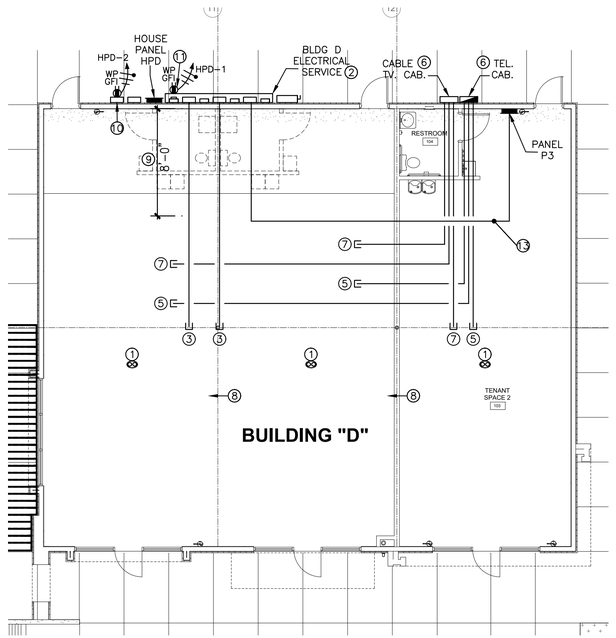
LIGHTING PLAN KEYED NOTES:

1. ALL EMERGENCY LIGHT BATTERY PACKS TO BE CONNECTED TO THE UNSWITCHED HOT CONDUCTOR SERVING THIS AREA.
2. PROVIDE AND INSTALL WP J-BOX FLUSH IN THE VERTICAL FACE OF THE WALL OF TENANT SPACE WITH CIRCUIT AS NOTED FOR SPACE SIGN. COORDINATE WITH ARCHITECT AND OWNER FOR EXACT LOCATION BEFORE ROUGH-IN. USE 3/4" CONDUIT WITH 2-#10 THWN CU. CONDRS. AND 1-#10 CU. GND. CIRCUIT TO BE WIRED THRU CONTACTOR C1. CONDUIT TO BE LABELED "TENANT SIGN XXX" WHERE XXX IS THE NUMBER OF SUITE SERVED. INTERIOR CONDUITS MUST BE PERMANENTLY LABELED, VISIBLE FROM BELOW CONDUIT. CONTRACTOR SHALL NOT COMBINE TENANT SIGN HOMERUNS INTO A SINGLE CONDUIT. PROVIDE ONE CONDUIT SYSTEM. SEE BLDG D LIGHTING CONTROL SCHEMATIC DETAIL 1/E5.1 ON SHEET E5.1.
3. CONTRACTOR SHALL NOT INSTALL ANY J-BOXES OR CONDUIT WITHIN 3FT. OF ANY FUTURE DEMISING WALLS FOR THE TENANT SPACES. COORDINATE WITH ARCHITECTURAL PLANS FOR DEMISING WALL LOCATIONS.
4. PROVIDE AND INSTALL A CONTINUOUS ROW OF LINEAR LIGHT FIXTURE TYPE D WITHIN EXTERIOR TOP COVE SPACE. LINEAR FIXTURE MUST REACH ENTIRE LENGTH OF COVE SPACE FROM END TO END. SEE COVE LIGHTING DETAIL 4/E6.0 ON SHEET E6.0.
5. PROVIDE AND INSTALL A CONTINUOUS ROW OF LINEAR LIGHT FIXTURE TYPE D WITHIN EXTERIOR VERTICAL COVE SPACE. LINEAR FIXTURE MUST REACH FROM TOP TO BOTTOM OF COVE SPACE. SEE COVE LIGHTING DETAIL 5/E6.0 ON SHEET E6.0.
6. PROVIDE AND INSTALL LIGHT FIXTURE TYPE D REMOTE DRIVERS ABOVE CEILING SPACE. MAKE CONNECTIONS TO EXTERIOR SWITCHED CIRCUIT CONTROLLED BY CONTACTOR 'C1'.
7. THIS CIRCUIT TO HAVE (2) SWITCHED CONDUCTORS. ONE SWITCHED CONDUCTOR TO BE CONTROLLED BY CONTACTOR 'C1' FOR A SCHEDULED OPERATION AND THE OTHER SWITCHED CONDUCTOR TO BE CONTROLLED BY CONTACTOR 'C2' FOR DUSK TO DAWN OPERATION. REFER TO BLDG D LIGHTING CONTROL SCHEMATIC DETAIL 1/E5.1 ON SHEET E5.1.
8. THIS LIGHT FIXTURE TO BE CONNECTED TO THE SWITCHED CONDUCTOR CONTROLLED BY CONTACTOR 'C1'. SEE BLDG D LIGHTING CONTROL SCHEMATIC DETAIL 1/E5.1 ON SHEET E5.1.
9. THIS LIGHT FIXTURE TO BE CONNECTED TO THE SWITCHED CONDUCTOR CONTROLLED BY CONTACTOR 'C2'. SEE BLDG D LIGHTING CONTROL SCHEMATIC DETAIL 1/E5.1 ON SHEET E5.1.
10. THIS CIRCUIT TO BE CONNECTED TO CONTACTOR 'C1'. SEE BLDG D LIGHTING CONTROL SCHEMATIC DETAIL 1/E5.1 ON SHEET E5.1.
11. INSTALL FIXTURE MOUNTED ON WALL @ 22'-0" A.F.F. POINTING DOWN.
12. THIS FIXTURE TO BE INSTALLED RECESSED TO THE TOP SOFFIT. SEE ELEVATION DETAIL FOR LOCATION.
13. CONNECT EMERGENCY LIGHTS AND EXIT SIGNS TO THE UNSWITCHED HOT CONDUCTOR SERVING THIS AREA.
14. PROVIDE AND INSTALL WALL MOUNTED, DUAL TECHNOLOGY, LINE VOLTAGE, OCCUPANCY SENSOR WATTSTOPPER MODEL DSW-301 OR EQUAL APPROVED BY ENGINEER, PROGRAM SENSOR FOR AUTO-ON/AUTO-OFF FUNCTION. AUTO-OFF FUNCTION TO BE SET TO TURN OFF ALL LIGHT SIN THIS ROOM AFTER 15 MIN. OF NO MOTION SENSING. SEE DETAIL 6/E6.0 ON SHEET E6.0.
15. EXHAUST FAN TO BE CONNECTED TO THE SWITCHED CONDUCTOR IN RESTROOM.



1 SHELL SPACE 103 LIGHTING PLAN

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

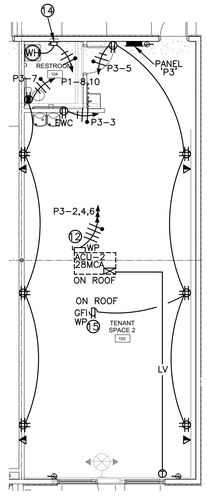


2 BLDG D POWER PLAN

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

ELECTRICAL PLAN KEYED NOTES:

1. CONTRACTOR SHALL PROVIDE AND INSTALL (2) INDIVIDUAL ROOF PENETRATIONS WITH A WEATHER PROOF LEAD FLASHING. USE ONE INDIVIDUAL PENETRATION TO INSTALL A 1" CONDUIT FOR FIXTURE HVAC POWER WIRING. USE THE OTHER ROOF PENETRATION TO INSTALL 3/4" CONDUIT FOR FIXTURE HVAC CONDUIT WIRING. SEE DETAIL 1/E6.0 ON SHEET E6.0 FOR REQUIREMENTS. COORDINATE LOCATION WITH MECHANICAL PLANS.
2. LOCATION OF BLDG D ELECTRICAL SERVICE. SEE ELECTRICAL RISER DIAGRAM ON SHEET E5.1.
3. PROVIDE AND INSTALL 2" CONDUIT WITH PULLSTRING AND BUSHINGS FOR EACH FUTURE LEASE SPACE PANEL. RUN CONDUIT IN JOIST SPACE TO EACH LEASE SPACE FROM GUTTER. DO NOT RUN CONDUIT BELOW BOTTOM OF JOISTS. PULLSTRING TO BE NEPTCO MULETAPE OR EQUAL AND PROVIDED WITH TAGS AT BOTH ENDS. ALL CONDUITS AND J-BOXES MUST BE PERMANENTLY MARKED. CONDUIT TO BE LABELED "ELEC XXX" WHERE XXX IS THE NUMBER OF SUITE SERVED. INTERIOR CONDUITS MUST BE PERMANENTLY LABELED, VISIBLE FROM BELOW CONDUIT HAND WRITTEN MARKINGS WILL NOT BE ACCEPTED. COORDINATE WITH OWNER BEFORE DOING ANY WORK. SEE BLDG D ELECTRICAL RISER DIAGRAM ON SHEET E5.1.
4. PROPOSED LOCATION OF RAINTIGHT 24"WX24"HX6"D LOCKABLE HINGED TELEPHONE TERMINAL CABINET. REFER TO TELEPHONE/TV CABLE CABINET DETAIL ON SHEET E6.0 FOR MORE REQUIREMENTS.
5. PROVIDE AND INSTALL 1" CONDUIT WITH PULLSTRING AND BUSHINGS FOR TEL. WIRING, RUN CONDUIT IN JOIST SPACE TO EACH LEASE SPACE. DO NOT RUN CONDUIT BELOW BOTTOM OF JOISTS. PULLSTRING TO BE NEPTCO MULETAPE OR EQUAL AND PROVIDED WITH TAGS AND BOTH ENDS. CONDUIT TO BE LABELED "TEL XXX" WHERE XXX IS THE NUMBER OF SUITE SERVED. INTERIOR CONDUITS MUST BE PERMANENTLY LABELED, VISIBLE FROM BELOW CONDUIT. SEE DETAIL 2/E6.0 ON SHEET E6.0.
6. PROPOSED LOCATION OF RAINTIGHT 24"WX24"HX6"D LOCKABLE HINGED TV CABLE CABINET. REFER TO TELEPHONE/TV CABLE CABINET DETAIL ON SHEET E6.0 FOR MORE REQUIREMENTS.
7. PROVIDE AND INSTALL 1 1/4" CONDUIT WITH PULLSTRING AND BUSHINGS FOR CABLE TV WIRING, RUN CONDUIT IN JOIST SPACE TO EACH LEASE SPACE. DO NOT RUN CONDUIT BELOW BOTTOM OF JOISTS. PULLSTRING TO BE NEPTCO MULETAPE OR EQUAL AND PROVIDED WITH TAGS AT BOTH ENDS. CONDUIT TO BE LABELED "CABLE TV/SAT XXX" WHERE XXX IS THE NUMBER OF SUITE SERVED. INTERIOR CONDUITS MUST BE PERMANENTLY LABELED, VISIBLE FROM BELOW CONDUIT. COORDINATE WITH OWNER BEFORE DOING ANY WORK. SEE DETAIL 2/E6.0 ON SHEET E6.0.
8. CONTRACTOR SHALL NOT INSTALL ANY J-BOXES OR CONDUIT WITHIN 3FT. OF ANY FUTURE DEMISING WALLS FOR THE TENANT SPACES. COORDINATE WITH ARCHITECTURAL PLANS FOR DEMISING WALL LOCATIONS.
9. CONTRACTOR SHALL INSTALL ALL CONDUITS A MINIMUM OF 8FT. FROM THE FACE OF THE INTERIOR WALL. THIS AREA IS RESERVED FOR PLUMBING PIPING ONLY. COORDINATE WITH ALL CONTRACTORS.
10. APPROXIMATE LOCATION OF IRRIGATION CONTROLLER. CONTRACTOR SHALL PROVIDE AND INSTALL A WP/GFI RECEPTACLE WITH A WP BOX WITH METALLIC IN-USE COVER ADJACENT TO IRRIGATION CONTROLLER. COORDINATE WITH LANDSCAPE PLANS FOR EXACT LOCATION.
11. PROVIDE AND INSTALL A WP/GFI SERVICE OUTLET IN A WP BOX WITH IN-USE METALLIC COVER ADJACENT TO HOUSE PANEL.
12. PROVIDE AND INSTALL A 60AMP, 240V, 3P, HD, TYPE 3R, NON-FUSED DISCONNECT SWITCH FOR POWER TO ROOF TOP UNIT. MAKE CONNECTIONS TO UNIT WITH FLEXIBLE WATERTIGHT CONDUIT. USE A 3/4" CONDUIT WITH 3-#8 THWN. CU. CONDRS AND 1-#10 CU. GND. USE THE ROOF PENETRATION LEAD FLASHING TO INSTALL NEW POWER AND CONTROL CONDUITS.
13. INSTALL A 2 1/2" CONDUIT WITH 4-#3/0 THWN. CU. CONDRS AND 1-#6 CU. GND. FROM MAIN DISCONNECT SWITCH FOR SHELL SPACE TO PANEL 'P1' AS SHOWN. SEE ELECTRICAL RISER DIAGRAM ON SHEET E3.1.
14. PROVIDE AND INSTALL A 30AMP, 240V, 2P, HD, NON-FUSED DISCONNECT FOR POWER TO ELECTRIC WATER HEATER. INSTALL DISCONNECT ADJACENT TO WATER HEATER AND MAKE CONNECTIONS WITH FLEXIBLE WATER TIGHT CONDUIT. USE A 1/2" CONDUIT WITH 2-#10 THWN. CU. CONDRS AND 1-#10 CU. GND. COORDINATE WITH PLUMBING PLANS FOR EXACT LOCATION.
15. PROVIDE NAD INSTALL A WP/GFI RECEPTACLE ON ROOF IN A WP BOX WITH IN-USE METALLIC COVER TO COMPLY WITH NEC 210.63.



1 SHELL SPACE 103 POWER PLAN

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

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BLDG D LIGHTING & POWER PLANS

COMMISSION No. 00-000

DATE: 08/10/2022

REVISIONS

#	Description	Date

SHEET: **E5.0**

11 OF 15

STATE OF TEXAS
ERIK K. PADILLA
96294
REGISTERED PROFESSIONAL ENGINEER
8/10/23

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TEL (915) 838-9900 • FAX (915) 838-9909
REGISTRATION # F005236

CONSTRUCTION DOCUMENTS

PANELBOARD SCHEDULE

PANELBOARD "HPD": 120/208V, 3 PHASE, 4 WIRE, 125 AMP. 60A MAIN C.B.
SURFACE MOUNTED, COPPER BUS, DOOR-WITHIN-DOOR, 14KAIC, TYPE 3R

	CKT. NO.	BREAKER AMPS, POLE	PHASE A B C	BREAKER AMPS, POLE	CKT. NO.	LOAD SERVED
BLDG D LIGHTS (1)	1	20/1		20/1	2	IRRIGATION CONTROLLER
SHELL SPACE 1 SIGN (2)	3	20/1		20/1	4	SERVICE OUTLET
SHELL SPACE 2 SIGN (2)	5	20/1		20/1	6	LIGHTING CONTROLS
SHELL SPACE 3 SIGN (2)	7	20/1		---	8	SPACE
SPACE	9	---		---	10	SPACE
SPACE	11	---		---	12	SPACE
SPACE	13	---		---	14	SPACE
SPACE	15	---		---	16	SPACE
SPACE	17	---		---	18	SPACE

(1) THIS CIRCUIT TO BE CONNECTED TO CONTACTOR 'C1' AND 'C2' RESPECTIVELY. SEE BLDG A LIGHTING CONTROL SCHEMATIC ON THIS SHEET.
(2) THIS CIRCUIT TO BE CONNECTED TO CONTACTOR C1 CONTROLLED BY TIMER. SEE BLDG A LIGHTING CONTROL SCHEMATIC ON THIS SHEET.

PANELBOARD 'HPD' LOAD CALCULATIONS

	LOAD (VA)
LIGHTING @125%	1800
TENANT SIGNS @ 3	1800
OUTLETS	720
HEATERS	2000
TOTAL	6,320 VA

I = 6,320VA/(208V)(1.73) = 18 AMPS
PANELBOARD HPD 125AMPS, 120/208V, 3 PH., 4W FED FROM HOUSE DISCONNECT FUSED AT 60AMPS WITH 1" C WITH 4-#6 THWN CU. AND 1-#8 CU. GND.

PANELBOARD SCHEDULE

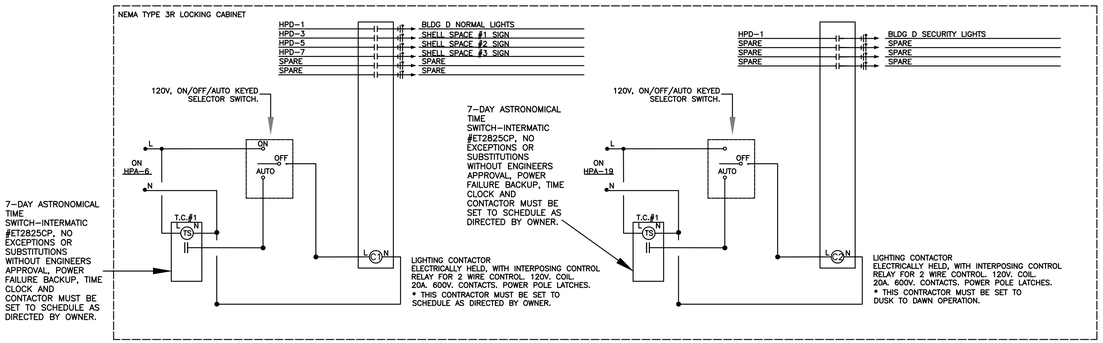
PANELBOARD "P3": 120/208V, 3 PHASE, 4 WIRE, 100 AMP. 120A MAIN C.B.
SURFACE MOUNTED, COPPER BUS, DOOR-WITHIN-DOOR, 14KAIC

	CKT. NO.	BREAKER AMPS, POLE	PHASE A B C	BREAKER AMPS, POLE	CKT. NO.	LOAD SERVED
LIGHTING	1	20/1		40 / 3	2	AC UNIT
EWC	3	20/1			4	208V, 3PH
RECEPTACLES EAST	5	20/1			6	28 MCA
RECEPTACLES WEST	7	20/1		25 / 2	8	ELECTRICAL WATER HEATER
SPACE	9	---			10	
SPACE	11	---		---	12	SPACE
SPACE	13	---		---	14	SPACE
SPACE	15	---		---	16	SPACE
SPACE	17	---		---	18	SPACE
SPACE	19	---		---	20	SPACE
SPACE	21	---		---	22	SPACE
SPACE	23	---		---	24	SPACE
SPACE	25	---		---	26	SPACE
SPACE	27	---		---	28	SPACE
SPACE	29	---		---	30	SPACE

PANELBOARD 'P3' LOAD CALCULATIONS

	LOAD (VA)
LIGHTING @125%	800
FIXTURE POWER 800 S.Q. F.T. @ 1.5VA	1200
FIXTURE POWER 800 S.Q. F.T. @ 10VA	8000
WATER HEATER	4500
TOTAL	14,500 VA

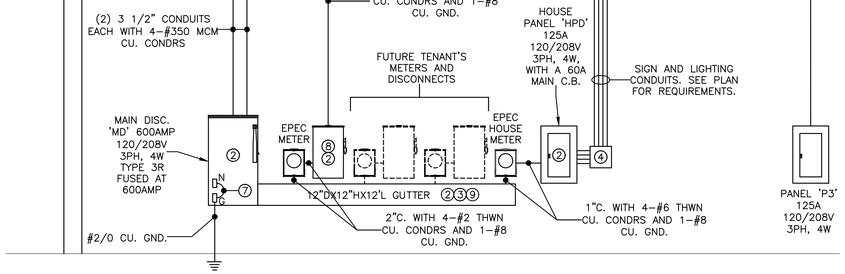
I = 14,500VA/(208V)(1.73) = 40 AMPS
PANELBOARD P3 125AMPS, 120/208V, 3PH., 4W FED FROM A 100A DISCONNECT FUSED AT 100AMPS WITH 2" C WITH 4-#2 THWN CU. AND 1-#8 CU. GND.



* CONTRACTOR MUST PROVIDE 1HR TRAINING SESSION TO OWNER MAINTENANCE PERSONNEL ON OPERATION AND MAINTENANCE OF LIGHTING CONTROLS (TIMER AND CONTRACTORS). CONTRACTOR MUST PROGRAM TIMER SCHEDULE AS REQUIRED BY OWNER AT TIME OF TRAINING SESSION.

1 / E5.1 BLDG D LIGHTING CONTROL SCHEMATIC

NTS



2 / E5.1 ELECTRICAL SERVICE D

NTS

RISER DIAGRAM KEYED NOTES:

1. CONTRACTOR MUST COORDINATE WITH EPEC AS SOON AS CONTRACT IS LET FOR NEW ELECTRICAL SERVICE.
2. ALL ELECTRICAL GEAR MUST BE LABELED WITH 8" PAINTED LETTERING IN BLACK COLOR. ALL ELECTRICAL EQUIPMENT MUST BE PROVIDED WITH TAMPER PROOF SCREWS. COORDINATE WITH ARCHITECT BEFORE LABELING. REFER TO ARCHITECTURAL PLANS FOR EXACT LABELING REQUIREMENTS.
3. GUTTER MUST BE PROVIDED WITH ILSCO POWER DISTRIBUTION BLOCKS. PROVIDE ONE POWER DISTRIBUTION BLOCK FOR EACH PHASE, NEUTRAL, AND GROUND. INSTALL POWER DISTRIBUTION BLOCKS AT THREE POINTS INSIDE GUTTER, EQUALLY SPACED.
4. INSTALL LIGHTING CONTACTORS IN NEMA TYPE 3R ENCLOSURE.
5. 2" CONDUIT FOR FUTURE ELECTRICAL CONDUCTORS. RUN FROM UPPER GUTTER TO TENANT SPACE. PROVIDE PULLSTRING WITH LINEN LABELED IN EXTERIOR GUTTER. PROVIDE BUSHINGS ON STUB ENDS. CONDUIT TO BE LABELED "ELEC XXX" WHERE XXX IS THE NUMBER OF SUITE SERVED. INTERIOR CONDUITS MUST BE PERMANENTLY LABELED, VISIBLE FROM BELOW CONDUIT.
6. PROVIDE AND INSTALL LIGHTING CONTROL CABINET FOR BLDG. 'D' WITH:
   ONE (1) 8-POLE CONTACTOR C1 FOR CIRCUITS HPD-1,3,5, AND 7 CONTROLLED BY TIME CLOCK FOR SUNSET 'ON', TIMER 'OFF'.
   ONE (1) 4-POLE CONTACTOR C2 FOR CIRCUIT HPD-1 CONTROLLED BY TIME CLOCK FOR DUSK TO DAWN OPERATION. SEE BLDG D LIGHTING CONTROL SCHEMATIC ON THIS SHEET.
7. MAIN BUILDING JUMPER TO BE 1-#2/0 CU. ACCORDING TO THE NEC ARTICLE 250.102(C)(1)TABLE.
8. PROVIDE AND INSTALL A 100AMP, 240V, 3POLE, 4W, HD, TYPE 3R, DISCONNECT FUSED AT 100AMPS FOR POWER TO NEW TENANT PANEL AS SHOWN.
9. EXTEND THE NEW (2) SETS OF #350 MCM CONDRS AND THE NEW #1/0 CU. GND. FROM MAIN DISCONNECT THROUGHOUT R.T. GUTTER. MAKE CONNECTIONS TO THE ILSCO BLOCKS AS REQUIRED.

FAULT CALCULATIONS

150 KVA TRANSFORMER, 120/208V, 3PH., Z =3.5%
I(MAX) = 150,000/(208)(1.732)= 417AMPS
I(FAULT) = 417A/ .035 = 11.9KA
FUSES MUST HAVE 14KA MIN. INT. CAPABILITY

MAIN DISCONNECT 'MD' LOAD CALCULATIONS

	LOAD (AMPS)
(3) TYPICAL 1000 S.Q. F.T. SPACE	165
HOUSE PANEL 'HPD'	30
TOTAL	184 AMPS

MAIN DISCONNECT 'MD' 600 AMP, 120/208V 3PH, 4W, TYPE 3R FED FROM EPEC TRANSFORMERS WITH (2) SETS OF 3 1/2" CONDUITS EA/W 4-#350MCM CU. CONDRS AND 1-#2/0 CU. SERVICE GND.

FUTURE SPACE LOAD CALCULATIONS

TYPICAL 1,000 SQ. FT. SPACE

	LOAD (VA)
LIGHTING 1,000 S.Q. F.T. X 3.5VA @ 125%	4,375
OUTLETS 1,000 S.Q. F.T. X 1VA	1,000
HVAC 1,000 S.Q. F.T. X 10VA	10,000
ELECTRIC WATER HEATER	4,500
TOTAL	19,875 VA

I = 19,875 VA/ (208V)(1.73) = 55 AMPS
FUTURE 100A, 120/208V, 3PH., 3P. TYPE 3R DISCONNECT 'XX' FUSED AT 100A. WHERE 'XX' IS THE NUMBER OF SUITE SERVED.

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BLDG D ELECTRICAL RISER & PANEL SCHEDULE

COMMISSION No. 00-000
DATE: 08/10/2022
REVISIONS
Description Date

SHEET: **E5.1**
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1818 E. RIO GRANDE • EL PASO, TEXAS 79902
TEL. (915) 838-9900 • FAX. (915) 838-9909
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STATE OF TEXAS — ANDREW J. ADELT — 66294 — REGISTERED PROFESSIONAL ENGINEER — 8/10/23

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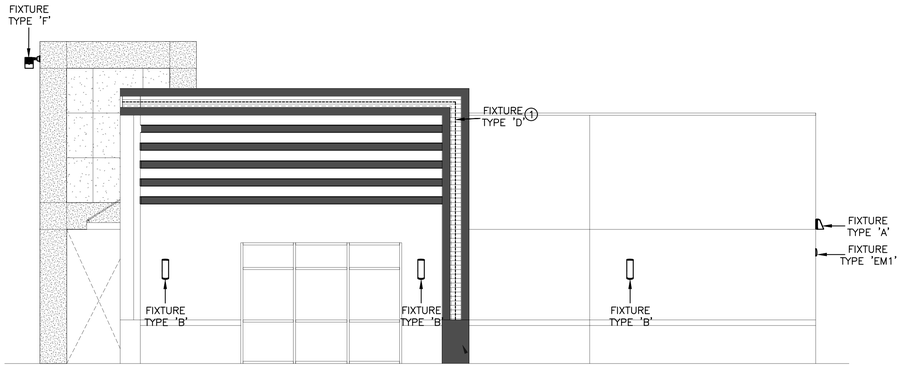
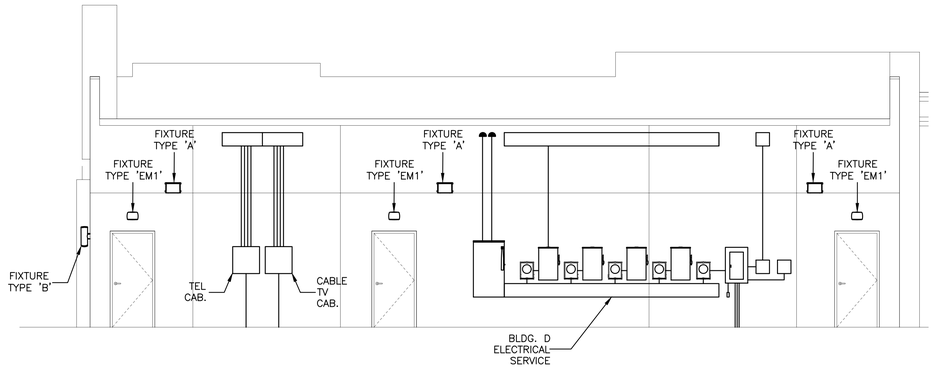


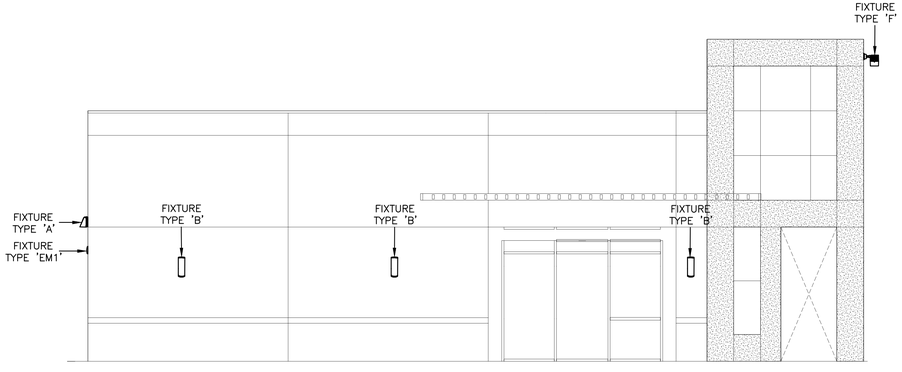
1 E5.2 BLDG D LIGHTING EAST ELEVATION

3/16 = 1'-0"



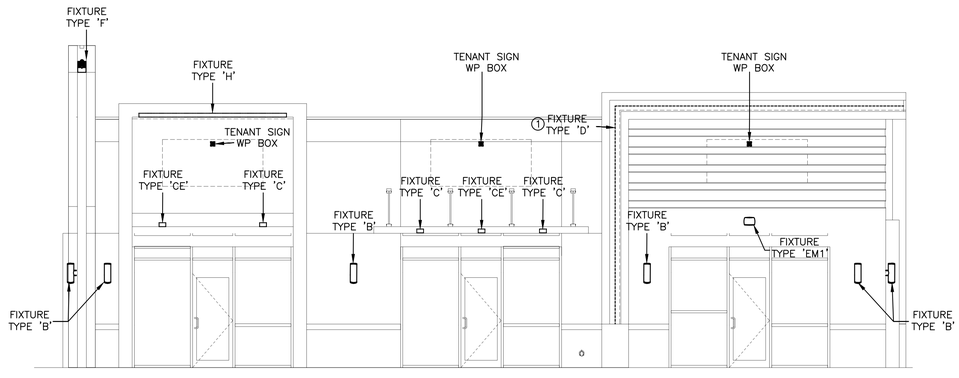
2 E5.2 BLDG D LIGHTING NORTH ELEVATION

3/16 = 1'-0"



3 E5.2 BLDG D LIGHTING WEST ELEVATION

3/16 = 1'-0"



4 E5.2 BLDG D LIGHTING SOUTH ELEVATION

3/16 = 1'-0"

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BLDG D EXTERIOR ELEVATIONS

COMMISSION No. 00-000

DATE: 08/10/2022

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13 OF 15

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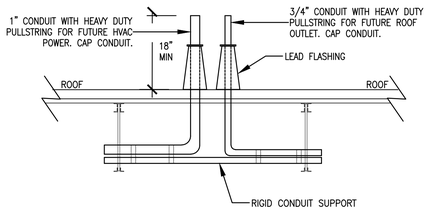
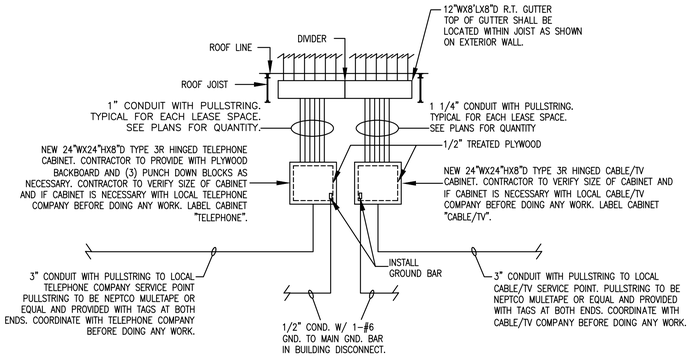


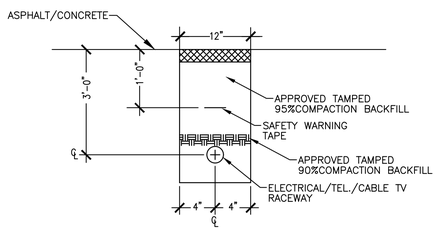
1 E6.0 HVAC CONDUIT DETAIL

N.T.S.



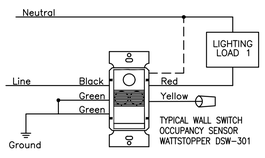
2 E6.0 TYPICAL PHONE/CATV RISER DETAIL

N.T.S.



3 E6.0 TRENCH DETAIL

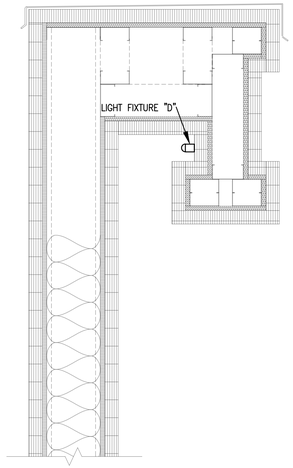
NTS



(SEE MANUFACTURER INSTALLATION INSTRUCTIONS)

6 E6.0 WALL MOUNTED SENSOR WIRING DIAGRAM S1

NTS



4 E6.0 COVE LIGHT DETAIL 1

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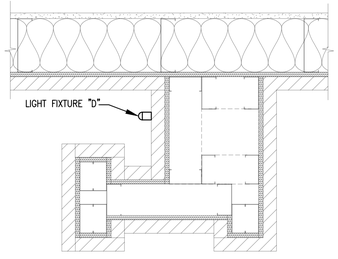
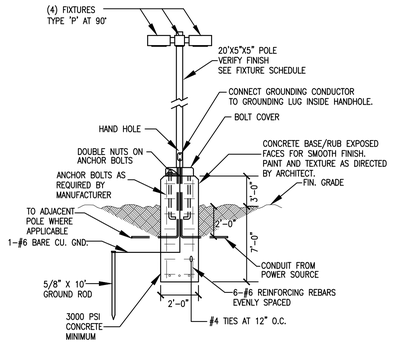


5 E6.0 COVE LIGHT DETAIL 2

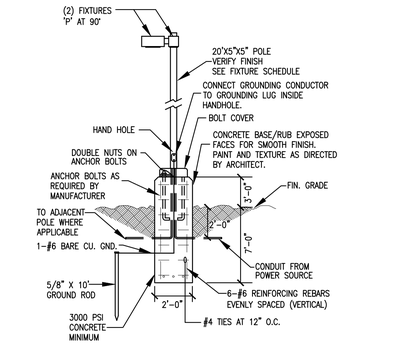
NTS



7 E6.0 STANDARD LIGHT POLE BASE DETAIL

NOTE: REFER TO MANUFACTURER INSTRUCTIONS FOR EXACT MOUNTING REQUIREMENTS.

NTS



8 E6.0 STANDARD LIGHT POLE BASE DETAIL

NOTE: REFER TO MANUFACTURER INSTRUCTIONS FOR EXACT MOUNTING REQUIREMENTS.

NTS

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ph:915.534.8082
fax:915.534.8083

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www.psrbarch.com

DETAILS

COMMISSION No. 00-000

DATE: 08/10/2022

REVISIONS

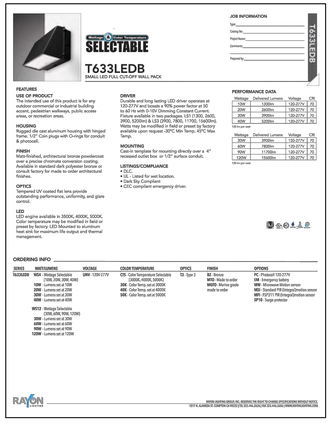
#	Description	Date

SHEET: **E6.0**

14 OF 15

ALPHA ENGINEERING, INC.
ENGINEERING CONSULTANTS
1818 E. RIO GRANDE • EL PASO, TEXAS 79902
TEL. (915) 838-9900• FAX. (915) 838-9909
REGISTRATION # F005236

CONSTRUCTION DOCUMENTS



SELECTABLE

T633LEDB

SMALL LED FULL CUTOFF WALL PACK

JOB INFORMATION

Type:
Catalog No.:
Project Name:
Comments:
Prepared by:

FEATURES

USE OF PRODUCT
The intended use of this product is for any outdoor commercial or industrial building mounted application, pathways, public access areas, or recreation areas.

HOUSING
Rugged die cast aluminum housing with hinged frame. 1/2" Conn plugs with O-ring for conduit & photocell.

FINISH
Matt-finished, architectural bronze powdercoat over a precise chromate conversion coating. Consult factory for custom colors available or consult factory for made to order architectural finishes.

OPTICS
Tempered UV coated flat lens provides outstanding performance, uniformity, and glare control.

LED
LED engine available in 3500K, 4000K, 5000K, or custom color may be modified in field or preset by factory. LED Mounted to aluminum heat sink for maximum life output and thermal management.

DRIVER
Durable and long lasting LED driver operates at 120-277V and boasts a 90% power factor at 50 watts. 0-10V dimming. Multi-Watt and Multi-Lumen Fixture available in two packages. LD (1300, 2600, 3900, 5200lm) & LD (2900, 1900, 1150, 1560lm). Multi-watt may be modified in field or preset by factory settings. Upon request -30°C Min Temp. -40°C Min Temp.

MOUNTING
Built-in template for mounting directly over a 4" recessed outlet box or 1/2" surface conduit.

LISTINGS/COMPLIANCE
• ETL - Listed for wet location.
• DLC - Qualified.
• CEC Compliant emergency driver.

PERFORMANCE DATA

Wattage	Delivered Lumens	Voltage	CRI
20W	1560lm	120-277V	70
30W	2600lm	120-277V	70
40W	3900lm	120-277V	70
50W	5200lm	120-277V	70

*All fixtures are rated 50,000 hours (L70) at 25°C ambient temperature.

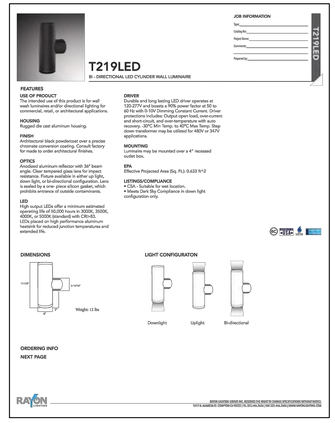
Wattage	Delivered Lumens	Voltage	CRI
10W	1560lm	120-277V	70
15W	1900lm	120-277V	70
20W	2900lm	120-277V	70
30W	3900lm	120-277V	70

*All fixtures are rated 50,000 hours (L70) at 25°C ambient temperature.

ORDERING INFO

SERIES	WATTS/LUMENS	VOLTAGE	COLOR TEMPERATURE SELECTABLE	OPTICS	FINISH	OPTIONS
T633LEDB	WSA - Wattage Selectable 10W - 30W / 1560 - 3900 LUMENS 1560 = Lumens at 10W 2600 = Lumens at 20W 3900 = Lumens at 30W 4200 = Lumens at 40W WS12 - Wattage Selectable (1560,2600,3900,5200) 3000 = Lumens at 30W 4000 = Lumens at 40W 5000 = Lumens at 50W 12000 = Lumens at 120W	UNIV - 120V-277V	CCS - Color Temperature Selectable 3K - 4K - 5K Selectable CWA - Cool White Only at 5000K NWA - Color Temp. set at 4000K WWA - Color Temp. set at 3000K	T3 - Type 3	BZ - Bronze BK - Black-Satin-textile WHA - White-Gloss-matte-textile	PC - Photocell 105-277V HS - Motion Sensor HW - Motion-Sensor-Motion-sensor MS - Standard PIR Stingray/Omnibus-sensor MH - FIXTITI PIR Stingray/Motion-sensor SP10 - Surge protective

RAYON



T219LED

W - DIRECTIONAL LED CYLINDER WALL LUMINAIRE

JOB INFORMATION

Type:
Catalog No.:
Project Name:
Comments:
Prepared by:

FEATURES

USE OF PRODUCT
The intended use of this product is for wall wash luminaires and/or directional lighting for commercial, retail, or architectural applications.

HOUSING
Rugged die cast aluminum housing.

FINISH
Architectural black powdercoat over a precise chromate conversion coating. Consult factory for made to order architectural finishes.

OPTICS
Specular aluminum reflector with 34° beam angle. Clear tempered glass lens for impact resistance. Fixture available in either up light, down light, or bi-directional configuration and is sealed by a one piece silicon gasket, which prohibits entrance of outside contaminants.

LED
High output LEDs offer a minimum estimated operating life of 60,000 hours in 3000K, 3500K, 4000K, or 5000K (standard) with CRI>83. Fixture is rated IP65 and has no serviceable hardware for reduced junction temperatures and extended life.

DRIVER
Durable and long lasting LED driver operates at 120-277V and boasts a 90% power factor at 50 to 60 watts. 0-10V dimming. Multi-watt fixture with surge protectors includes Output open load, over-current and short-circuit, and over-temperature with auto reset. Operates at -40C Min Temp. to 40°C Max Temp. Step down transformer may be utilized for 480V or 347V applications.

MOUNTING
Luminaire may be mounted over a 4" recessed outlet box.

EPA
Effective Projected Area (Sq. Ft.) 0.633 ft^2

LISTINGS/COMPLIANCE
• ETL - Listed for wet location.
• CSA - Suitable for wet location.
• Meets Dark Sky Compliance in down light configuration only.

DIMENSIONS

Weights: 13 lbs

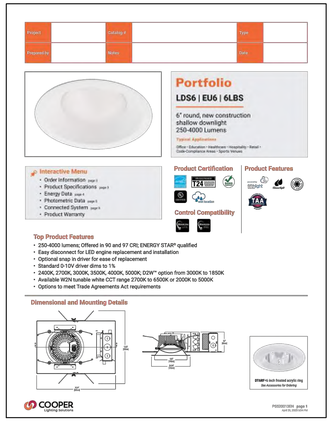
LIGHT CONFIGURATION

Downlight Uplight Bi-directional

ORDERING INFO

NEXT PAGE

RAYON



Project
Catalog #
Prepared by
Notes
Type
Date
Approval

Portfolio

LDS6 | EU6 | 6LBS

6" round, new construction shallow downlight 250-4000 Lumens

Typical Applications

Office - Education - Healthcare - Hospitality - Retail - Code Compliance - Security

Interactive Menu
• Order Information page 2
• Product Specifications page 3
• Energy Data page 4
• Photometric Data page 5
• Connected System page 6
• Product Warranty

Product Certification

Product Features

Control Compatibility

Top Product Features
• 250-4000 lumens; Offered in 90 and 97 CRI; ENERGY STAR® qualified
• Easy disconnect for LED engine replacement and installation
• Optional snap in driver for ease of replacement
• Standard 0-10V driver dims to 1%
• 2400K, 2700K, 3000K, 3500K, 4000K, 5000K, DYN™ option from 3000K to 1850K
• Available IP20 tunable white CCT range 2700K to 6500K or 3000K to 5000K
• Options to meet Trade Agreements Act requirements

Dimensional and Mounting Details

ZFMRP 6-inch finished acrylic ring for Accessories for Ordering

COOPER Lighting Solutions

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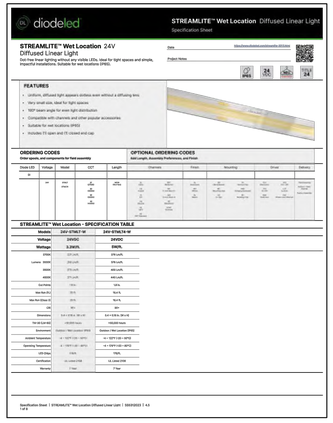


diodeled

STREAMLITE™ Wet Location Diffused Linear Light

Specification Sheet

STREAMLITE™ Wet Location 24V Diffused Linear Light

Test Free Power lighting without any visible LEDs. Ideal for light spaces and simple, impactful installations. Suitable for wet locations (IP65).

Date
Machine/Model/Assembly/Controller (ID/Qty)
Project Notes

IP65 | 24 VDC | 3 m

FEATURES
• Uniform, diffused light appears lifeless even without a diffusing lens
• Very small size, ideal for tight spaces
• 160° beam angle for even light distribution
• Compatible with channels and other popular accessories
• Suitable for wet locations (IP65)
• Includes (1) open end (1) closed end cap

ORDERING CODES
Add specific parts, and components for fixed assembly

Diode LED	Voltage	Model	CCT	Length	Channels	Finish	Mounting	Driver	Options
2835	24V	STREAMLITE	2700K 3000K 4000K 5000K	3ft 5ft 10ft Custom	Channel	Black White	Surface Recessed	Driver	Options

OPTIONAL ORDERING CODES
Add a single, Assembly Preference, and Finish

STREAMLITE™ Wet Location - SPECIFICATION TABLE

Models:	24V-ST4LT-W	24V-ST4LT4-W
Voltage:	24VDC	24VDC
Wattage:	3.2W/ft.	5W/ft.
IP65:	127 Lm/ft.	195 Lm/ft.
Lumens: 3000:	292 Lm/ft.	446 Lm/ft.
4000:	372 Lm/ft.	570 Lm/ft.
4500:	371 Lm/ft.	440 Lm/ft.
Cut Every:	3in.	3in.
Min Run (ft.):	3ft ft.	3ft ft.
Max Run (Feet):	3ft ft.	3ft ft.
CRI:	90+	90+
Dimensions:	3.4 × 0.8 in. (W × H)	3.4 × 0.8 in. (W × H)
Tilt Of Cut Ins:	+/-90/90 Inch	+/-90/90 Inch
Environment:	Outdoor / Wet Location (IP65)	Outdoor / Wet Location (IP65)
Ambient Temperature:	-4 – 104°F (-20 – 40°C)	-4 – 104°F (-20 – 40°C)
Operating Temperature:	-4 – 104°F (-20 – 40°C)	-4 – 104°F (-20 – 40°C)
IP Class:	IP65	IP65
Certifications:	UL Listed CSA	UL Listed CSA
Warranty:	2 Year	2 Year

Specification Sheet | STREAMLITE™ Wet Location Diffused Linear Light | SS0103023 T 4.5
1 of 5

UOD-5016 ← Last Digit Signifies Wattage (See Below)

Odessa 14 Large Floodlight Pedestal Mount

LIGMAN LIGHTING USA

Mounting Detail

Construction
Aluminum Casting
Less than 0.1% copper content - Marine grade aluminum alloy A356 with minimum high Pressure die casting provides excellent mechanical strength , clean detailed product lines and excellent heat dissipation.

Pre-paint
Multi-stage cleaning and phosphate process that includes dissolving alkaline etching as well as a zinc and nickel phosphate process before primer application.

Memory Retentive, Silicon Coated
Polyester powder coat is applied within 19 hrs for superior long life high temperature memory retentive finish. Coating is UV resistant and gallets exact profile and seal over years of use and temperature.

Thermal management
Die cast housing is ideal for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. Our patented heat sink design has 5g lumen gain in comparison with the driver, controls thermals below 85°C ambient temperature for the maximum luminous flux output, as well as preventing long LED service life and ensuring more than 100k lumen depreciation at 50,000 hours.

Surge Suppression
Standard 10kv surge suppressor provided with all fixtures.

BUC Rating
BB / UO / GF

Finishing
All Ligman products go through an extensive multi-stage finishing process before painting to improve paint adherence.

Paint
Our traditional 4.0mil thick powder coat paint is cured at 200 deg C.
This process ensures that Ligman products have the highest quality finish and are fluted for use in extreme conditions.

Hardware
Precoated Hardware is Marine grade 316 Stainless steel.

Anti Solar Screw Holes
Tapped holes are infused with a special anti corrosive compound to prevent the formation of threadlock connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Crystal Clear Low Iron Glass Lens
Our premium optical performance tempered crystal clear low iron glass ensuring no green glass tinge.

Optics & LED
Our optical design provides exceptional light control and precise distribution of light. LED CRI > 80

Color Temperature Life
LED 5K is 40,000 hours (This means that at least 50% of the LED still achieve 80% of their original flux)

Stylish adjustable projector range.
Ligman's UOD-5016 represents contemporary family. Odessa packs a punch with an abundance of options and accessories.

The Odessa family of floodlights have a modern appearance and are ideal for a wide range of uses for most small to medium size spotlight and flood-light requirements. The floodlights can be aimed and locked in place to highlight specific features or elements in the environment, as well as provide uniform illuminating dark areas on campuses and parks.

This small and medium range of high performance LED floodlights luminaires provides a robust design for demanding applications such as recreational areas, public spaces and architectural structures.

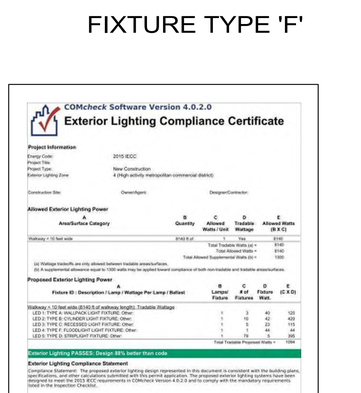
The luminaire has integrated heat sinks to facilitate LED cooling, as well as an integral driver. The Odessa is available in Narrow, Medium, Wide and Very Wide beam distributions. Color temperatures 2700K, 3000K, 3500K and 4000K. Luminaire has optional accessories such as glare shields, visors, louvres, and lense spread lenses.

For non standard fixture variations, as well as specific reflector requirements and , please contact the factory. 3 mounting options are available, namely pole mount, pedestal and 1/2" threaded knuckle system with a fully rotatable with locking screw option for after installation aiming.

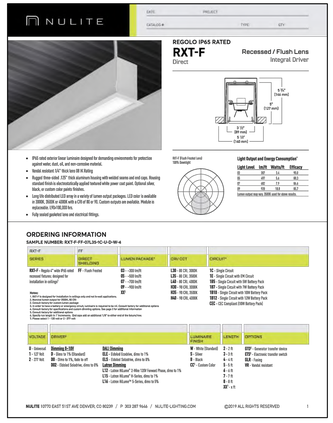
Additional Options (Consult Factory For Pricing)

Mounting Detail | Glare Shield | Spill Control | Louvre

Mounting Detail | Spread Lens | Spread Lens | Spread Lens



NULITE



REGOLO IP65 RATED

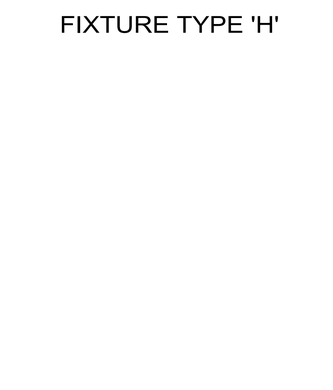
RXT-F

Direct | Recessed / Flush Lens | Integral Driver

Light Output and Energy Consumption*

Light Level	Im/ft	Watts/ft	Efficacy
XL	69	5.5	80
L	47	3.5	81
M	34	2.5	82
P	19	1.5	84

*Lumen values may vary ±5% and for some models.



• IP65 rated exterior linear luminaire designed for demanding environments for protection against water, dust, oil, and non-corrosive material.
• Models available 12.5" thick thru 96" thick.
• Rugged three-sided .125" thick aluminum housing with welded seams and end caps. Housing standard finish is electrostatically applied textured white power coat paint. Optional silver, black, or custom color paints finishes.
• Luminaire is available in a variety of lumen output packages. LED color is available in 3000K, 4000K or 5000K and a CRI of 80 or 90. Custom outputs are available. Halobar is equivalent to T8/T5HO lamps.
• Fully coated gasketed lens and electrical fittings.

ORDERING INFORMATION

SAMPLE NUMBER: RXT-F-FP-GFL20-12-U-D-W-4

RXT-F	FP					
SERIES	MOUNTING	LUMEN PACKAGE*	CRI/CCT	CIRCUITRY
RXT-F - Regolo 4" wide IP65 rated recessed fixtures, designed for installation in drywall	FP - Flush Pan	05 - 200 lm/ft 08 - 300 lm/ft 12 - 400 lm/ft 16 - 500 lm/ft	LD - 80 CRI, 3000K LB - 80 CRI, 4000K LA - 80 CRI, 5000K HD - 90 CRI, 3000K HB - 90 CRI, 4000K HA - 90 CRI, 5000K	SC - Single Circuit TC - Single Circuit with 3W Circuit SBE - Single Circuit with 3W Battery Pack TBE - Single Circuit with 3W Battery Pack DBE - Single Circuit with 3W Battery Pack CSC - CEC Compliant (5W Battery Pack)

Notes:
1. Fixtures designed for installation in a diffuse only and not for spot applications.
2. Fixtures are designed for 0-10V dimming.
3. Choose fixture for each lumen package.
4. Lumen output is based on 4000K luminaire is required to use UL classed lenses for wellness options.
5. Lumen output is based on 4000K luminaire. For other CCT options, please contact factory.
6. Specify for overall L x W dimensions. Add max size per additional 1/2" to either end for fixture(s).
7. Specify for overall L x W dimensions. Add max size per additional 1/2" to either end for fixture(s).

VOLTAGE	DRIVER*	LUMINAIRE LENGTH	LENGTH	OPTIONS
U - Universal 1 - 120 Volt 2 - 277 Volt	Dimming 0-10V D - Drive to 1% Standard DR - Drive to 1%, fade to off DN - Dimmer Overdrive, drive to 1%	W - White Overdrawl B - Silver K - Black CT - Custom Color	2 - 2 ft 3 - 3 ft 4 - 4 ft 5 - 5 ft 6 - 6 ft 7 - 7 ft 8 - 8 ft 96" - 8 ft	STEP - Stepped or transfer device STEP - Electronic transfer version ELA - Factory TB - Needs maximum

DALI	DALI Dimming
DLC - Listed Fixture, drive to 1% DLB - Dalcor Standard, drive to 0%	Lutron Dimming LTE - Lutron Ecosystem 1% Dimming LTEA - Lutron Ecosystem 1% Dimming LTEB - Lutron Ecosystem 1% Dimming

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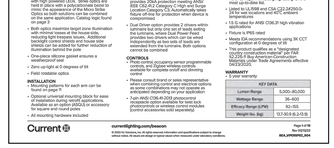

BEACON

VIPER Area/Site

VIPER LUMINAIRE

DATE: LOCATION:
TYPE: PROJECT:
CATALOG #:

MICROSTRIKE | STRIKE | OPTICS

10-DAY QUICK SHIP PROGRAM

FEATURES
• Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as auto dealership, retail, commercial, and campus parking lots.
• Featuring two different optical technologies, Strike and Micro Strike Optics, which provide the best distribution patterns for retrofit or new construction projects.
• Suitable for vibration applications including bridges and overpasses. All sizes are rated for 3G.
• Control options including photo control, occupancy sensing, NX Lighting Controls*, wiSCAPE and 0-10V with networked controls
• Now customizable lumen output feature allows for the wattage and lumen output to be customized in the factory to meet whatever specification requirements may entail
• Field interchangeable mounting provides additional flexibility after the fixture has shipped

IP65 | DLC | DLC PREMIUM

CONTROL TECHNOLOGY

NX LIGHTING CONTROLS | WISCAPE

SPECIFICATIONS

CONSTRUCTION
• Die-cast housing with hidden vertical heat sink fins provide for heat dissipation while keeping a clean smooth outer surface
• Corrosion resistant, die-cast aluminum housing with 1000 hour powder coat paint finish
• External hardware is corrosion resistant

OPTICS
• Micro Strike Optics (863, 320, 480, or 720 LED counts) maximize uniformity in applications requiring tighter spacing of luminaires, which evenly illuminate the entire luminous area, providing a clean, crisp appearance. Catalog logic found on page 2
• Strike Optics (96, 72, 108, or 162 LED counts) maximize uniformity in applications requiring maximum spacing of luminaires with high powered LEDs. Strike optics are ideal for wide roadways, where the goal is to create the appearance of a Micro Strike. Optics so both solutions can be combined on the same application. Catalog logic found on page 2
• Both optics maximize target zone illumination with minimal losses at the house-side, resulting in little to no spill light. Additional backlight control shields and house side shields can be added for further reduction of unwanted light spill
• One-piece silicone gasket ensures a weatherproof seal
• Zero uplight at 0 degrees of tilt
• Field rotatable optics

INSTALLATION
• MOUNTING OPTIONS
• Knuckle and trunnion slip fitters available for 2-3/8" O.D. tenons
• For products with 676 less than 1 mounted to a circle greater than 24ft, a vibration damper is recommended

BUILT TO LAST
• Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz
• Ambient operating temperature -40°C to 40°C
• Drivers have greater than 90% power factor and less than 20% THD
• LED drivers have output power over-voltage, over-current protection and short circuit protection, standard on all units
• Field replaceable surge protection device provides 20kA protection meeting ANSI/IEEE C62.41.2 Category C High and Exposure Location Category C3, substantially extra fixture off-line for protection when device is compromised
• Integral surge protection provides 2 drivers within luminaire but only one set of leads exiting the luminaire, where Dual Power Feed Technology is utilized. Dual Power Feed is standard and is fully available as two sets of leads are extended from the luminaire. Both options are UL Recognized

CONTROLS
• Photo control, occupancy sensor programmable via NX Lighting Controls* Mobile App available for configurable on/off and dimming control
• Photocontrol brand or sales representative when combining control and electrical options as some combinations may not operate as intended. Please consult factory for assistance
• Futri-ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols (photocontrol and shorting cap (control accessories sold separately)

CONTROLS (CONTINUED)
• NX Lighting Controls* (standard and factory installed) are extended out of the luminaire unless control options require additional housing. Refer to NX Lighting Controls* ordering guide
• NX Lighting Controls* available with in fixture wireless control module, features dimming and scheduling. Also available in 7-pin configuration
• wiSCAPE* available with in fixture wireless control module, features dimming and scheduling. Also available in 7-pin configuration

CERTIFICATIONS
• DesignLights Consortium® (DLC) Premium Qualified. Some Premium Qualified configurations may qualify for Standard (DLC Standard Table 5 or 6). Consult current DLC® website. Refer to http://www.designlights.org for the most current listing
• Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40°C ambient temperature
• 1.5 G rated for ANSI C136.31 high vibration applications
• Fixture is IP65 rated
• Meets DOE recommendations using 3K CCT configuration at 0 degrees of tilt
• This product qualifies as a "designated" product under Buy American, Buy America (BAA) or Buy American Construction Materials under Trade Agreements effective 04/23/2024

WARRANTY
• 5 year warranty

KEY DATA	
Lumen Range	5,000–85,000
Wattage Range	36–600
Efficacy Range (LPW)	92–155
Weight lbs. (kg)	53 (63.5 (L)-(1.3)

Current

current@lighting.com/beacon

Page 1 of 16
Rev 102523
BEA_VPRSM2EC_SSA

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FIXTURE TYPE 'A'

FIXTURE TYPE 'B'

FIXTURE TYPE 'C', 'CE'

FIXTURE TYPE 'D'

FIXTURE TYPE 'F'

FIXTURE TYPE 'H'

FIXTURE TYPE 'P1', 'P2'

COMCHECK BLDG A

COMCHECK BLDG B

COMCHECK BLDG C

COMCHECK BLDG D

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AT

403 EXECUTIVE CENTER BLVD EL PASO, TEXAS 79902

1810 Wyoming ave
el paso, tx 79903
ph:915.534.8082
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COMMISSION No. 00-000

DATE: 08/10/2022

REVISIONS

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SHEET: **E6.1**

15 OF 15

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ALPHA ENGINEERING, INC.
ENGINEERING CONSULTANTS
1818 E. RIO GRANDE • EL PASO, TEXAS 79902
TEL. (915) 838-9900 • FAX. (915) 838-9909
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