

# Distribution Center

# Liberty Public Schools

1138 Southview Dr,  
Liberty, MO 64068

## CONSTRUCTION DOCUMENTS



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Missouri State Certificate of Authority  
Architecture # 0000161  
Structure # 200601333

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Landscaping #2006027139  
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11827 W 112th St #200  
Overland Park, KS 66210  
913.317.5590 phone

**Bob D. Campbell & Co.**  
Structural Engineer  
State Certificate of Authority # 000442  
4338 Belleview Ave.  
Kansas City, MO 64111  
816.531.4144 phone  
816.531.8572 fax

**Smith & Boucher Engineers**  
Mech/Elect Engineer  
State Certificate of Authority # EFC-000178  
25618 W 103rd St  
Olathe, KS 66061  
913.345.2127 phone

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Food Service Consultant  
2140 W Grand St Suite B  
Springfield, MO 65802  
417.862.0812 phone

CONSTRUCTION  
DOCUMENTS

Distribution Center  
Liberty Public Schools

1138 Southview Dr, Liberty, MO 64068



Kevin E. Nelson  
A-2019015618

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JOB NO: 23021.00  
DRAWN BY: SE  
CHECKED BY: NYJB  
DATE: 10.10.2023

# G000

COVER SHEET

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### ALTERNATE LIST

#### ALTERNATE 1 - NORTH CLERESTORY

BASE BID: AS DRAWN IN DOCUMENTS

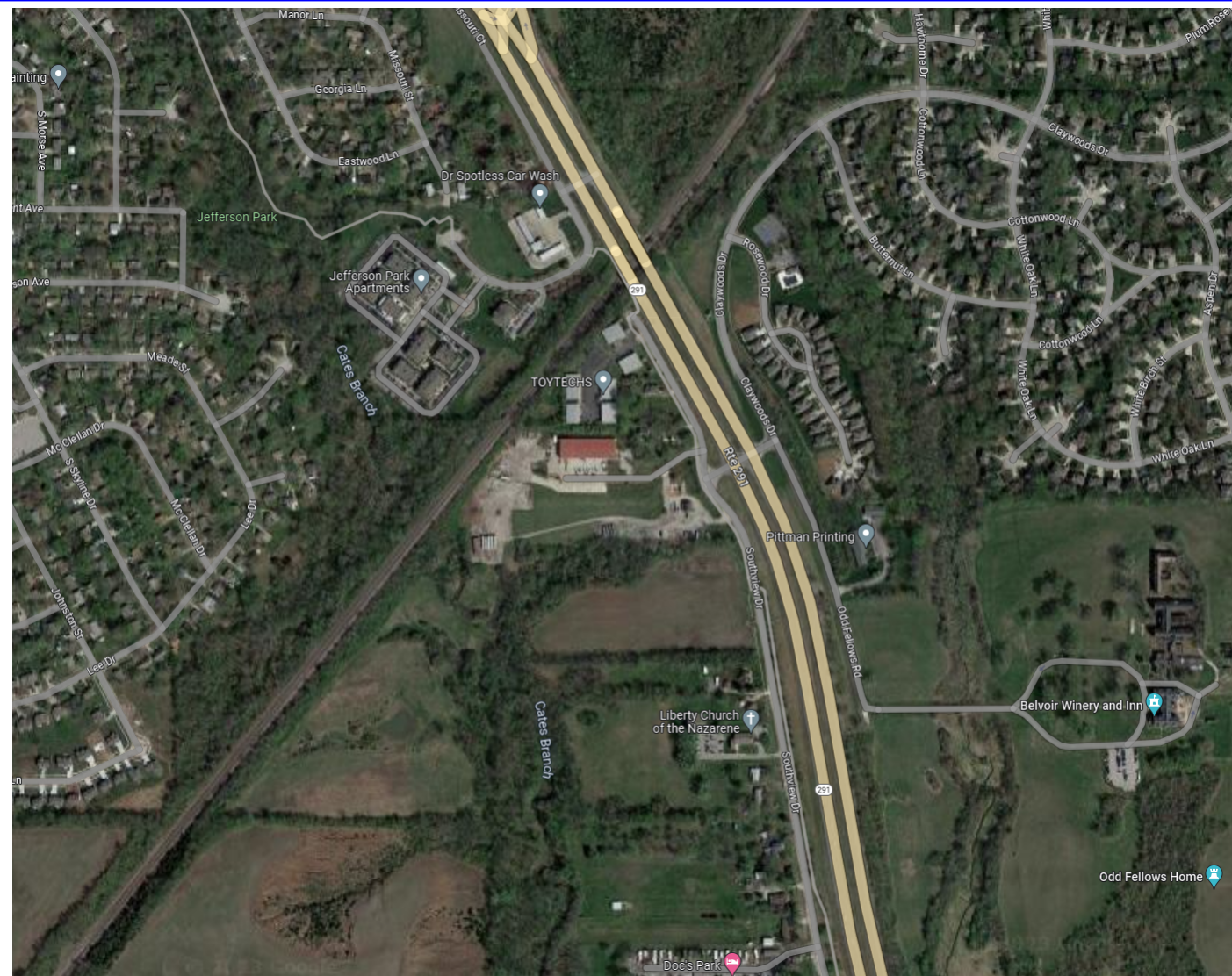
ALTERNATE: DO NOT PROVIDE NORTH CLERESTORY WINDOWS AND FRAMING MATERIAL. CONTINUE MP1 OVER INDICATED NORTH CLERESTORY LOCATIONS. RE:A201

#### ALTERNATE 2 - LIGHTNING PROTECTION

BASE BID: NO LIGHTNING PROTECTION

ALTERNATE: RE: MEP SHEETS

### VICINITY MAP



### DESIGN TEAM

#### ARCHITECT:

Hollis + Miller Architects  
1828 Walnut Street Ste 922  
Kansas City, MO 64108  
CONTACT: Shea Ensor  
PHONE: 816.442.7700  
FAX: 816.599.2545

#### CONSTRUCTION MANAGER:

Newkirk Novak Construction Partners  
11200 W 79th Street  
Lenexa, KS 66214  
CONTACT: Ben Vanderau  
PHONE: 913.312.9535

#### CIVIL ENGINEER:

MKEC Engineering, Inc.  
11827 W 112th St #200  
Overland Park, KS 66210  
CONTACT: Braden Taylor  
PHONE: 913.317.9390

#### STRUCTURAL ENGINEER:

Bob D. Campbell & Co.  
4338 Belleview Ave.  
Kansas City, MO 64111  
CONTACT: Wayne E. Davis, P.E.  
PHONE: 816.531.4144  
FAX: 816.531.8572

#### MECH/ELECT ENGINEER:

Smith & Boucher Engineers  
25618 W 103rd St  
Olathe, KS 66061  
CONTACT: Stacy Clapsaddle, P.E.  
PHONE: 913.345.2127

#### GEOTECHNICAL ENGINEER:

Kruger Technologies, Inc.  
8271 Melrose Drive  
Lenexa, KS 66214  
CONTACT: Dylan Kruger  
PHONE: 913.498.1114  
FAX: 913.498.1116

#### FOOD SERVICE CONSULTANT:

Fellers Food Service Equipment & Design  
2140 W Grand St Suite B  
Springfield, MO 65802  
CONTACT: Mike Fiddymont  
PHONE: 417.862.0812



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

## PROJECT INFORMATION

PROJECT NUMBER	23021.00
PROJECT NAME	Liberty Distribution Center
OWNER	Liberty Public Schools 8 Victory Lane Liberty, MO 64068
AUTHORITY HAVING JURISDICTION	City of Liberty, MO Planning & Development 101 E. Kansas Street Liberty, MO 64068
RESPONDING FIRE SERVICE	Liberty Fire Department
ANTICIPATED OCCUPANCY	Apr.2025
ADOPTED CODES AND ORDINANCES	2018 International Building Code 2018 International Existing Building Code 2017 National Electric Code (NFPA 70) 2018 International Mechanical Code 2018 International Plumbing Code 2012 International Energy Conservation Code 2009 ICC A117.1 Accessible and Usable Buildings and Facilities 2016 ASME A17.1 Safety Code for Elevators and Escalators 2014 ICC 500 Standard on Design and Construction of Storm Shelters Amendments

## BLDG 1 BUILDING INFORMATION

OCCUPANCY CLASSIFICATION:	Mixed Use: Business; B; Low hazard storage: S-2, Moderate hazard storage: S-1, Moderate hazard industrial: F-1
CONSTRUCTION TYPE:	II-B (602.2, Non-combustible, non-protected) New construction
BUILDING HEIGHT:	75' above grade plane
Allowable Height (Table 504.3):	35'
Builtup Height:	3 stories above grade plane
Allowable Stories (Table 504.4):	1
BUILDING AREA:	S1: Building one story max. above grade plane with automatic sprinkler system Sprinkler qualifier (Table 506.2) Ratios not to exceed 1.0 per 506.4.2 - see ratio calculations 28,526 SF
OCCUPANCY SEPARATION:	1-Hour separation (Table 508.4)
INCIDENTAL USE SEPARATION:	No separation requirement (509.3)
FIRE RESISTANCE RATINGS:	(Per Table 601, 602)
Primary Structural Frame:	0-Hour fire-resistance rating
Exterior Bearing Walls:	0-Hour fire-resistance rating
Interior Bearing Walls:	0-Hour fire-resistance rating
Exterior Nonbearing Walls:	0-Hour fire-resistance rating
Interior Nonbearing Walls:	0-Hour fire-resistance rating
Floor Construction / Secondary Members:	0-Hour fire-resistance rating
Roof Construction / Secondary Members:	0-Hour fire-resistance rating
Fire Walls	No fire walls
Fire Barriers	No fire barriers
Fire Partitions	1-Hour rated wall assembly (706) 45 Minute door, 45 Minute Glazing (Table 716.1(2)) 45 Minute Glazing at door sidelights and transoms (Table 716.1(2)) 45 Minute Fire Windows (Table 716.1(3))
Smoke Barriers / Partitions	0-Hour rated wall assembly (710) openings per 710.5.1 and 710.5.2
Shafts	No shaft enclosures

## BLDG 1 EGRESS COMPONENTS

NUMBER OF EXITS:	2 per space greater than 29 occupants (Table 1006.2.1) 3 per space with load 501 to 1,000; 4 per space over 1,000
DEAD-END CORRIDORS:	50' Max. with automatic sprinkler system in groups B, E, F, I-1, M, R-1, R-2, R-4, S, U (1020.4, Exception 2)
COMMON PATH OF TRAVEL:	100' (Table 1006.2.1)
TRAVEL DISTANCE TO EXIT:	250' Maximum for A, E, F-1, I-1, M, R, S-1 with sprinkler (Table 1017.2)
CORRIDOR CONSTRUCTION:	0-hour fire rating in A, B, E, F, I-2, I-4, M, S, U occupancies with sprinkler (1020.1)
CORRIDOR WIDTH:	44" minimum corridor width (Table 1020.2) 24" minimum for access to MEP systems or equipment (Table 1020.2)
MEANS OF EGRESS CAPACITY:	0.2" for stairways (1005.3.1) / 0.15" for doors / other (1005.3.2) (sprinklered bldg)

## BLDG 1 FIRE SAFETY FEATURES

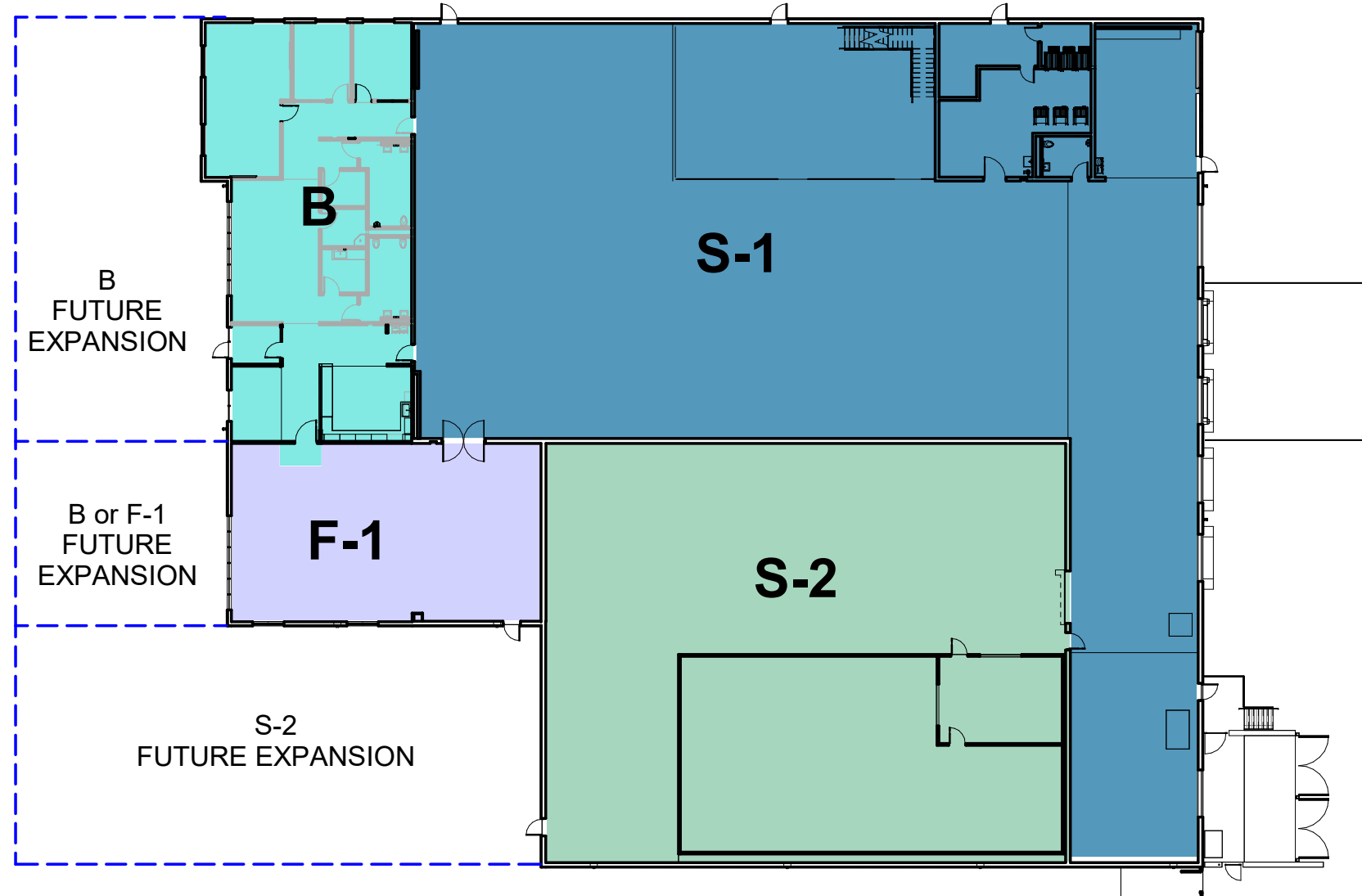
SPRINKLER:	Automatic sprinkler system provided throughout Sprinkler installed per NFPA 13 (803.3.1.1)
FIRE ALARM SIGNALING:	n/a
EMERGENCY LIGHTING / POWER:	n/a
SMOKE CONTROL SYSTEM:	n/a

## BLDG 1 PLUMBING FIXTURES

Water Closets (Male):	B: 1 per 25 then 1 per 50 over 50 S: 1 per 100 F: 1 per 100
Water Closets (Female):	B: 1 per 25 then 1 per 50 over 50 S: 1 per 100 F: 1 per 100
Lavatories (Male):	B: 1 per 40 then 1 per 80 over 80 S: 1 per 100 F: 1 per 100
Lavatories (Female):	B: 1 per 40 then 1 per 80 over 80 S: 1 per 100 F: 1 per 100
Drinking Fountains:	B: 1 per 100 S: 1 per 1,000 F: 1 per 400
Service Sinks:	1
Bathtubs / Showers:	N/A

## BUILDING AREA CALCULATIONS

OCCUPANCY: Business; B (304.1)		
506.2	Allowable Area Determination: Equation 5-2	
Aa =	[At + (NS x If)] x Sa where: At = Allowable area (square feet, typ.) If = Area factor increase due to frontage NS = Tabular allowable area factor (per sprinkler qualifier) in accordance with Table 506.2 If = Area factor increase due to frontage (percent) per Section 506.3 Sa = Actual number of stories above grade plane: not to exceed 3 (4 if building is fully sprinklered).	At = 92000 NS = 25000 If = 0.25 Sa = 1
Aa =	97750 sq ft	
506.3	Frontage Increase: Per Equation 5-5:	
If =	[FIP - 0.25] W/30 where: FIP = Building perimeter that fronts a public way or open space having 20 feet open minimum width P = Perimeter of entire building (feet) W = Width of public way of open space (feet) - min. 20' to be allowed, use 30' max.	F = 348 P = 695 W = 30
If =	0.25	
OCCUPANCY: Storage: S-2 Low Hazard (311.3)		
506.2	Allowable Area Determination: Equation 5-2	
Aa =	[At + (NS x If)] x Sa where: At = Allowable area (square feet, typ.) If = Area factor increase due to frontage NS = Tabular allowable area factor (per sprinkler qualifier) in accordance with Table 506.2 If = Area factor increase due to frontage (percent) per Section 506.3 Sa = Actual number of stories above grade plane: not to exceed 3 (4 if building is fully sprinklered).	At = 104000 NS = 28000 If = 0.25 Sa = 1
Aa =	110500 sq ft	
506.3	Frontage Increase: Per Equation 5-5:	
If =	[FIP - 0.25] W/30 where: FIP = Building perimeter that fronts a public way or open space having 20 feet open minimum width P = Perimeter of entire building (feet) W = Width of public way of open space (feet) - min. 20' to be allowed, use 30' max.	F = 348 P = 695 W = 30
If =	0.25	
OCCUPANCY: Storage: S-1 Moderate Hazard (311.2)		
506.2	Allowable Area Determination: Equation 5-2	
Aa =	[At + (NS x If)] x Sa where: At = Allowable area (square feet, typ.) If = Area factor increase due to frontage NS = Tabular allowable area factor (per sprinkler qualifier) in accordance with Table 506.2 If = Area factor increase due to frontage (percent) per Section 506.3 Sa = Actual number of stories above grade plane: not to exceed 3 (4 if building is fully sprinklered).	At = 70000 NS = 17500 If = 0.25 Sa = 1
Aa =	74375 sq ft	
506.3	Frontage Increase: Per Equation 5-5:	
If =	[FIP - 0.25] W/30 where: FIP = Building perimeter that fronts a public way or open space having 20 feet open minimum width P = Perimeter of entire building (feet) W = Width of public way of open space (feet) - min. 20' to be allowed, use 30' max.	F = 348 P = 695 W = 30
If =	0.25	
OCCUPANCY: Industrial: F-1 Moderate Hazard (306.2)		
506.2	Allowable Area Determination: Equation 5-2	
Aa =	[At + (NS x If)] x Sa where: At = Allowable area (square feet, typ.) If = Area factor increase due to frontage NS = Tabular allowable area factor (per sprinkler qualifier) in accordance with Table 506.2 If = Area factor increase due to frontage (percent) per Section 506.3 Sa = Actual number of stories above grade plane: not to exceed 3 (4 if building is fully sprinklered).	At = 62000 NS = 15500 If = 0.25 Sa = 1
Aa =	74375 sq ft	
506.3	Frontage Increase: Per Equation 5-5:	
If =	[FIP - 0.25] W/30 where: FIP = Building perimeter that fronts a public way or open space having 20 feet open minimum width P = Perimeter of entire building (feet) W = Width of public way of open space (feet) - min. 20' to be allowed, use 30' max.	F = 348 P = 695 W = 30
If =	0.25	
508.4.2 Allowable building area. In each story, the building area shall be such that the sum of the actual building area of each separated occupancy divided by the allowable building area of each separated occupancy shall not exceed 1.0		
Building Area	29,526 SF	
Occupancy	Business, Group B (304.1)	
Actual Area	2,922	
Allowable Area	97750 sq ft	
Ratio	0.03	
Occupancy	Storage, Group S-1 Moderate Hazard (311.2)	
Actual Area	13,715	
Allowable Area	74375 sq ft	
Ratio	0.18	
Occupancy	Storage, Group S-2 Low Hazard (311.3)	
Actual Area	7,920	
Allowable Area	110500 sq ft	
Ratio	0.07	
Occupancy	Industrial, Group F-1 Moderate Hazard (306.2)	
Actual Area	2,010	
Allowable Area	65875 sq ft	
Ratio	0.03	
Sum of Ratios:	0.31	



A1	Scale	Overall Code Floor Plan - Keyplan
	1" = 30'-0"	

## Code BLDG Occupant Load Table

Rm No	Room Name	Function of Space	Area (SF)	Occupant Load Factor	Space Occupant Load
A115	Not Used	Accessory Storage Areas, Mechanical Equipment Room	Not Placed	300 SF	
Not Placed					0
A102	Copy Center	Industrial Areas	2007 SF	100 SF	21
A103	Break Area	Business Areas	247 SF	150 SF	2
A105	Workstations	Business Areas	499 SF	150 SF	4
A108	Mothers	Business Areas	72 SF	150 SF	1
A112	Conference	Assembly Without Fixed Seats Unconcentrated (tables & Chairs)	454 SF	15 SF	31
A113	Office	Business Areas	163 SF	150 SF	2
A114	Office	Business Areas	165 SF	150 SF	2
A116	IT / Pony Mail / Flex	Warehouses	1476 SF	500 SF	3
A117	Laundry	Warehouses	540 SF	500 SF	2
A118	MEP	Accessory Storage Areas, Mechanical Equipment Room	196 SF	300 SF	1
A120	Coordinator	Warehouses	561 SF	500 SF	2
A121	Swing	Warehouses	2230 SF	500 SF	5
A122	Warehouse	Warehouses	7611 SF	500 SF	16
A123	Flex / Charging	Warehouses	978 SF	500 SF	2
A124	Dry Food Warehouse	Warehouses	5129 SF	500 SF	11
A125	Cooler	Warehouses	392 SF	500 SF	1
A126	Freezer	Warehouses	2321 SF	500 SF	5
Level 1					111
Total Building Occupant Load					111

Total Facility Fixture Counts						
Fixture	Required			Provided		
	Male	Female	Total	Male	Female	Gender Neutral
Water Closets	1	1	2	5	2	1
Lavatories	1	1	2	5	2	1
Drinking Fountains			1	2		
Service Sinks			1	1		

Urinal Substitutions					
Occupancy Group	Percentage Allowed	Required Water Closets	Permitted Substitutions	Substitutions Applied	
Assembly / Education	67% of required	N/A	N/A	N/A	
All other occupancies	50% of required	2	1	0	

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REVISIONS:

#	Description	Date
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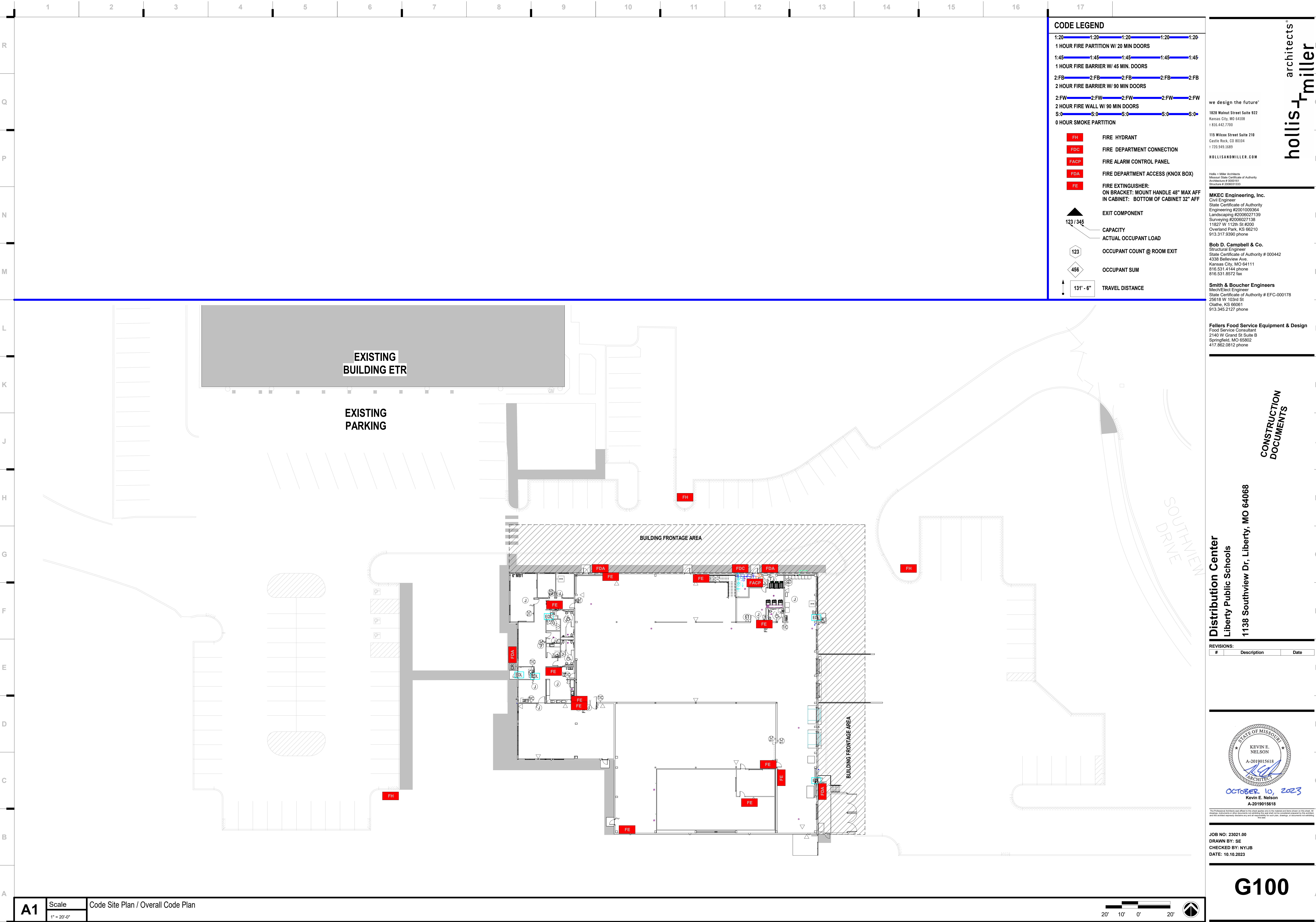
# G001

GENERAL PROJECT INFORMATION

Please consider the environment before printing this.



10/9/2023 20:33:59



CODE LEGEND

- 1:20 1:20 1:20 1:20 1:20  
1 HOUR FIRE PARTITION W/ 20 MIN DOORS  
1:45 1:45 1:45 1:45 1:45  
1 HOUR FIRE BARRIER W/ 45 MIN. DOORS  
2:FB 2:FB 2:FB 2:FB 2:FB  
2 HOUR FIRE BARRIER W/ 90 MIN DOORS  
2:FW 2:FW 2:FW 2:FW 2:FW  
2 HOUR FIRE WALL W/ 90 MIN DOORS  
S:0 S:0 S:0 S:0 S:0  
0 HOUR SMOKE PARTITION
- FH** FIRE HYDRANT  
**FDC** FIRE DEPARTMENT CONNECTION  
**FACP** FIRE ALARM CONTROL PANEL  
**FDA** FIRE DEPARTMENT ACCESS (KNOX BOX)  
**FE** FIRE EXTINGUISHER:  
ON BRACKET: MOUNT HANDLE 48" MAX AFF  
IN CABINET: BOTTOM OF CABINET 32" AFF
- EXIT COMPONENT**  
123 / 345  
CAPACITY  
ACTUAL OCCUPANT LOAD  
123  
OCCUPANT COUNT @ ROOM EXIT  
456  
OCCUPANT SUM  
131' - 6" TRAVEL DISTANCE

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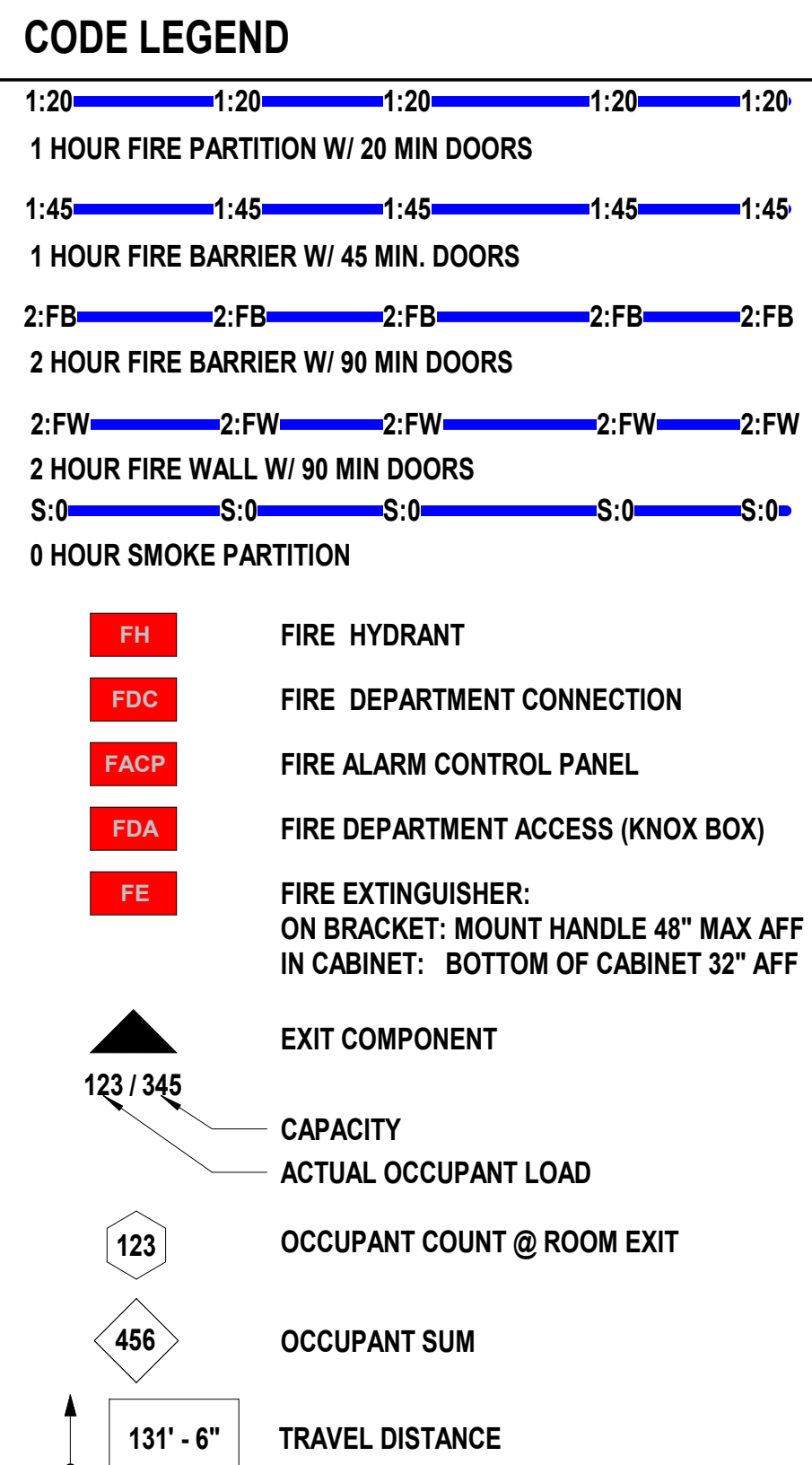
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This Professional Address and Affirmation are subject to the signed agreement and to the signed and dated copy of the work. All drawings, documents and other materials are prepared by the architect and are the property of the architect. All drawings, documents and other materials are prepared by the architect and are the property of the architect.

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**G100**






**MKEC Engineering, Inc.**  
Civil Engineer  
State Certificate of Authority  
Engineering #00002710364  
Landscaping #0000027139  
Surveying #0000027139  
11827 W 12th St #200  
Overland Park, KS 66202  
913.317.9390 phone

**Bob D. Campbell & Co.**  
Structural Engineer  
State Certificate of Authority # 000442  
4338 Bellevue Ave.  
Kansas City, MO 64111  
816.531.4144 phone  
913.511.8572 fax

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Mech/Elect Engineer  
State Certificate of Authority # EFC-000178  
29518 W 103rd St  
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Springfield, MO 65802  
417.862.0812 phone

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 OCTOBER 10, 2020  
 Kevin E. Nelson  
 A-2019015618

JOB NO: 23021.00  
DRAWN BY: SE  
CHECKED BY: NY/JE  
DATE: 10.10.2023

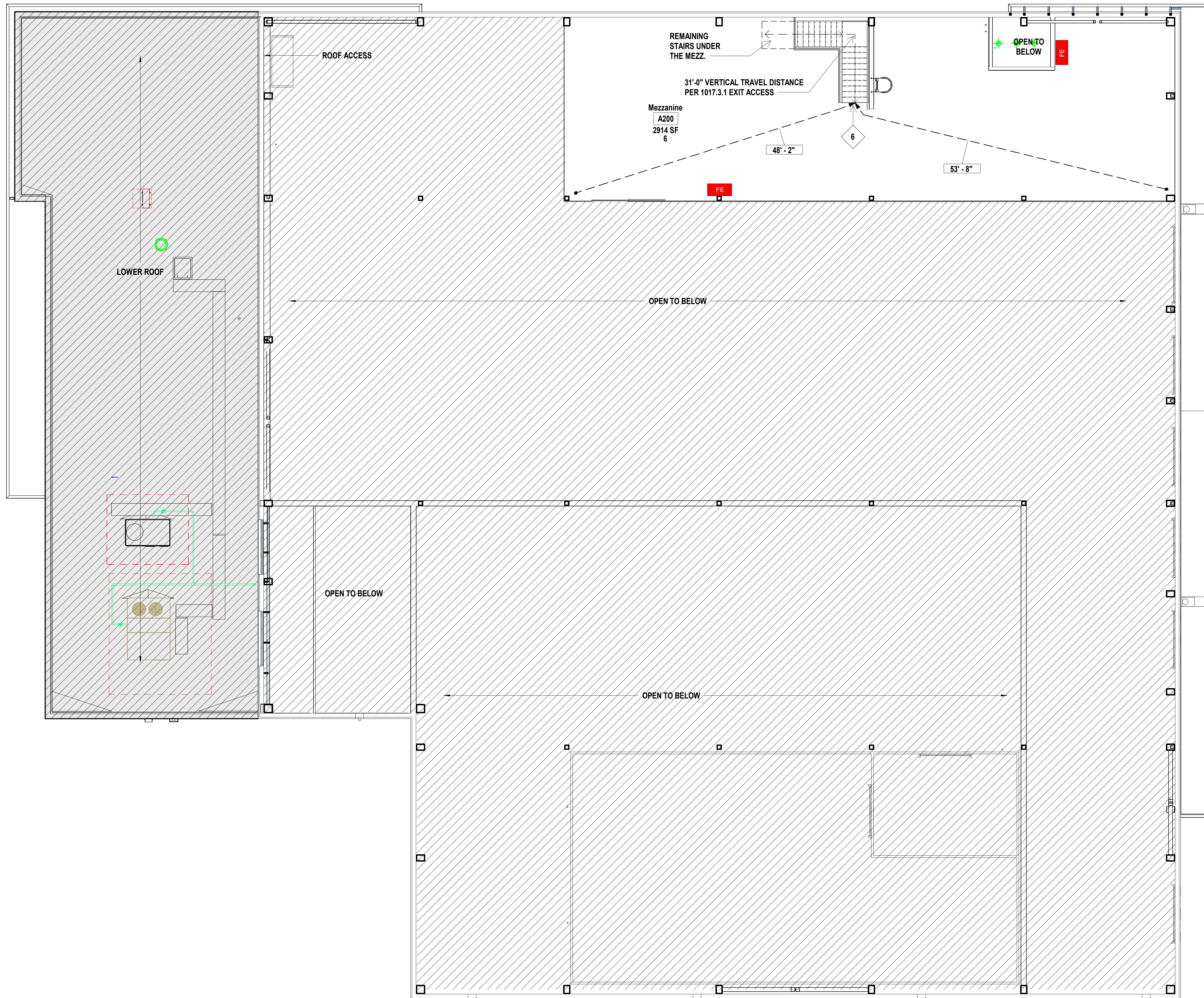
# G101

# CODE FLOOR PLAN - LEVEL 1 BLDG 1





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Code BLDG Lvl 2 Occupant Load Table					
Rm No	Room Name	Function of Space	Area (SF)	Occupant Load Factor	Space Occupant Load
A200	Mezzanine	Warehouses	2914 SF	500 SF	6
Office Roof & Mezzanine					6
Total Building Occupant Load					6



## CODE LEGEND

1:20	1:20	1:20	1:20	1:20
1 HOUR FIRE PARTITION W/ 20 MIN DOORS				
1:45	1:45	1:45	1:45	1:45
1 HOUR FIRE BARRIER W/ 45 MIN. DOORS				
2:FB	2:FB	2:FB	2:FB	2:FB
2 HOUR FIRE BARRIER W/ 90 MIN DOORS				
2:FW	2:FW	2:FW	2:FW	2:FW
2 HOUR FIRE WALL W/ 90 MIN DOORS				
S:0	S:0	S:0	S:0	S:0
0 HOUR SMOKE PARTITION				
FB	FIRE HYDRANT			
FBC	FIRE DEPARTMENT CONNECTION			
FACP	FIRE ALARM CONTROL PANEL			
FBA	FIRE DEPARTMENT ACCESS (KNOX BOX)			
FE	FIRE EXTINGUISHER: ON BRACKET: MOUNT HANDLE 48" MAX AFF IN CABINET: BOTTOM OF CABINET 32" AFF			
	EXIT COMPONENT			
123 / 345	CAPACITY			
	ACTUAL OCCUPANT LOAD			
123	OCCUPANT COUNT @ ROOM EXIT			
	OCCUPANT SUM			
	TRAVEL DISTANCE			
131' - 6"				

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Landscaping #20006027139  
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11827 W 112th St #200  
Overland Park, KS 66210  
913.317.9390 phone

**Bob D. Campbell & Co.**  
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4338 Bellevue Ave.  
Kansas City, MO 64111  
816.531.4144 phone  
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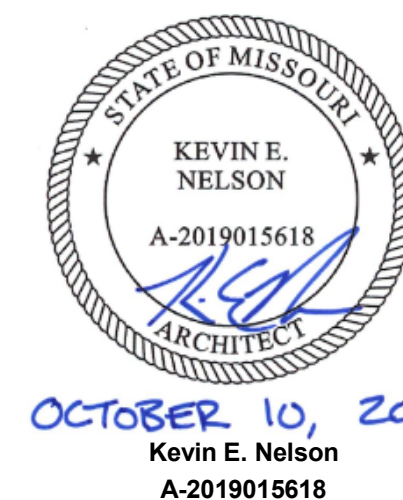
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Olathe, KS 66061  
913.245.2127 phone

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DOCUMENTS**

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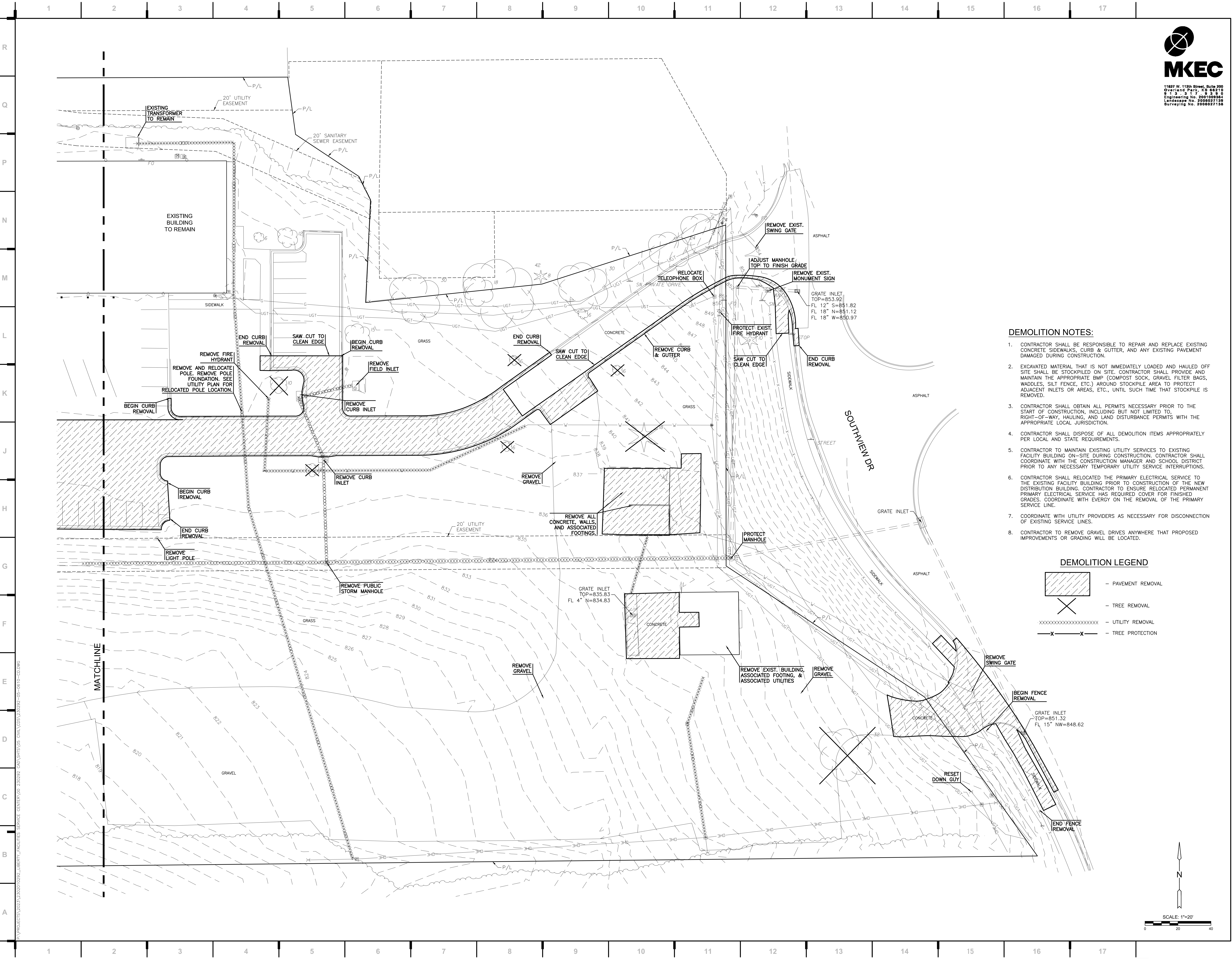
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Architecture # 0000181  
Structure # 200601333

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Landscaping: 2008027139  
Surveying: 2008027139  
11827 W. 112th St. Ste 200  
Overland Park, KS 66210  
913.317.5595 phone  
**Smith & Boucher Engineers**  
Mech/Elect/Plumb Engineer  
State Certificate of Authority # MEGC-0001787  
25501 W. Valley Parkway, Ste 200  
Olathe, KS 66061  
913.345.2127 phone  
**Bob D Campbell**  
Structural Engineer  
State Certificate of Authority #000442  
4338 Bellevue Ave  
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### DEMOLITION NOTES:

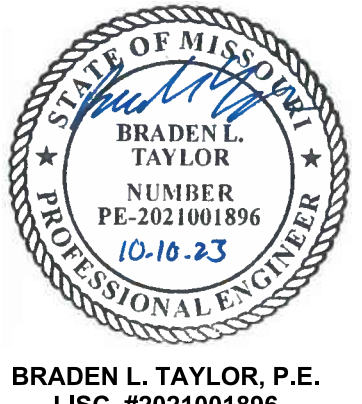
- CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR AND REPLACE EXISTING CONCRETE SIDEWALKS, CURB & GUTTER, AND ANY EXISTING PAVEMENT DAMAGED DURING CONSTRUCTION.
- EXCAVATED MATERIAL THAT IS NOT IMMEDIATELY LOADED AND HAULED OFF SITE SHALL BE STOCKPILED ON SITE. CONTRACTOR SHALL PROVIDE AND MAINTAIN THE APPROPRIATE BMP (COMPOST SOCK, GRAVEL FILTER BAGS, WADDLES, SILT FENCE, ETC.) AROUND STOCKPILE AREA TO PROTECT ADJACENT INLETS OR AREAS, ETC., UNTIL SUCH TIME THAT STOCKPILE IS REMOVED.
- CONTRACTOR SHALL OBTAIN ALL PERMITS NECESSARY PRIOR TO THE START OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO, RIGHT-OF-WAY, HAULING, AND LAND DISTURBANCE PERMITS WITH THE APPROPRIATE LOCAL JURISDICTION.
- CONTRACTOR SHALL DISPOSE OF ALL DEMOLITION ITEMS APPROPRIATELY PER LOCAL AND STATE REQUIREMENTS.
- CONTRACTOR TO MAINTAIN EXISTING UTILITY SERVICES TO EXISTING FACILITY BUILDING ON-SITE DURING CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH THE CONSTRUCTION MANAGER AND SCHOOL DISTRICT PRIOR TO ANY NECESSARY TEMPORARY UTILITY SERVICE INTERRUPTIONS.
- CONTRACTOR SHALL RELOCATED THE PRIMARY ELECTRICAL SERVICE TO THE EXISTING FACILITY BUILDING PRIOR TO CONSTRUCTION OF THE NEW DISTRIBUTION BUILDING. CONTRACTOR TO ENSURE RELOCATED PERMANENT PRIMARY ELECTRICAL SERVICE HAS REQUIRED COVER FOR FINISHED GRADES. COORDINATE WITH EVERGY ON THE REMOVAL OF THE PRIMARY SERVICE LINE.
- COORDINATE WITH UTILITY PROVIDERS AS NECESSARY FOR DISCONNECTION OF EXISTING SERVICE LINES.
- CONTRACTOR TO REMOVE GRAVEL DRIVES ANYWHERE THAT PROPOSED IMPROVEMENTS OR GRADING WILL BE LOCATED.

### DEMOLITION LEGEND

- PAVEMENT REMOVAL
- TREE REMOVAL
- UTILITY REMOVAL
- TREE PROTECTION

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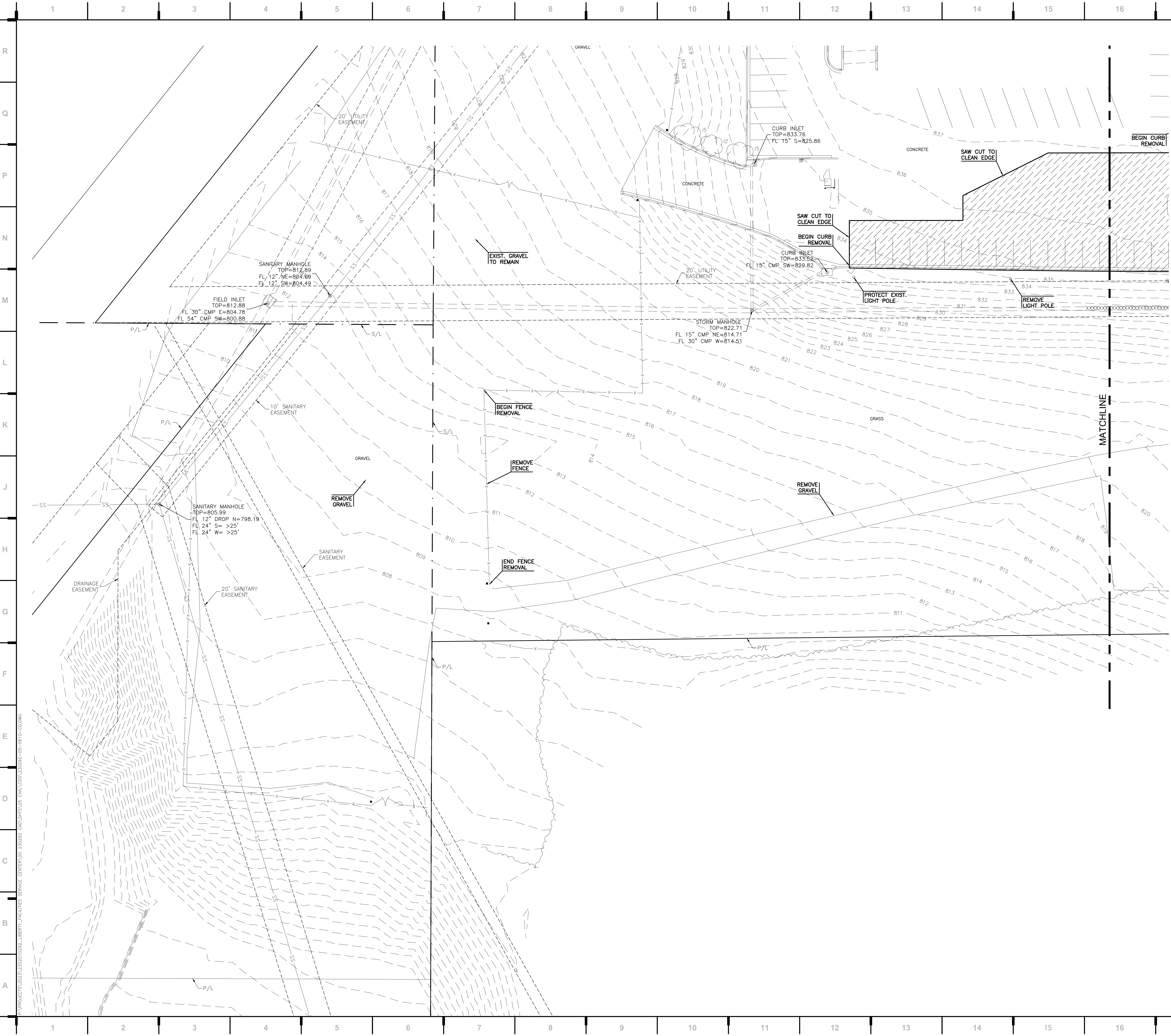
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Overland Park, KS 66210  
913.317.5395 phone

**Smith & Boucher Engineers**  
Mech/Elect/Plumb Engineer  
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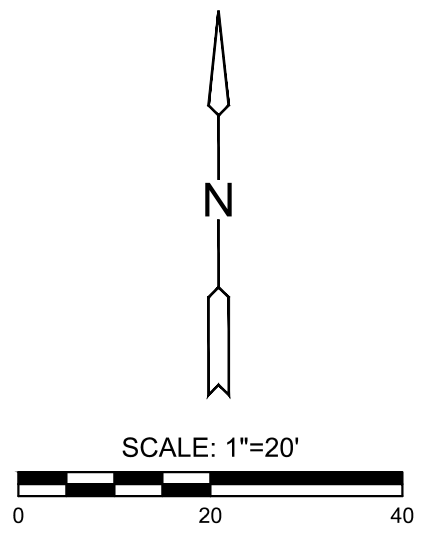
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Structural Engineer  
State Certificate of Authority #000442  
4336 Bellevue Ave  
Kansas City, MO 64111  
816.531.4144 phone

**NOTES:**

1. SEE SHEET DC101 FOR DEMOLITION NOTES.

**DEMOLITION LEGEND**

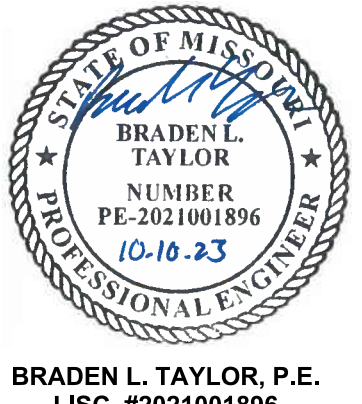
	- PAVEMENT REMOVAL
	- TREE REMOVAL
	- UTILITY REMOVAL
	- TREE PROTECTION



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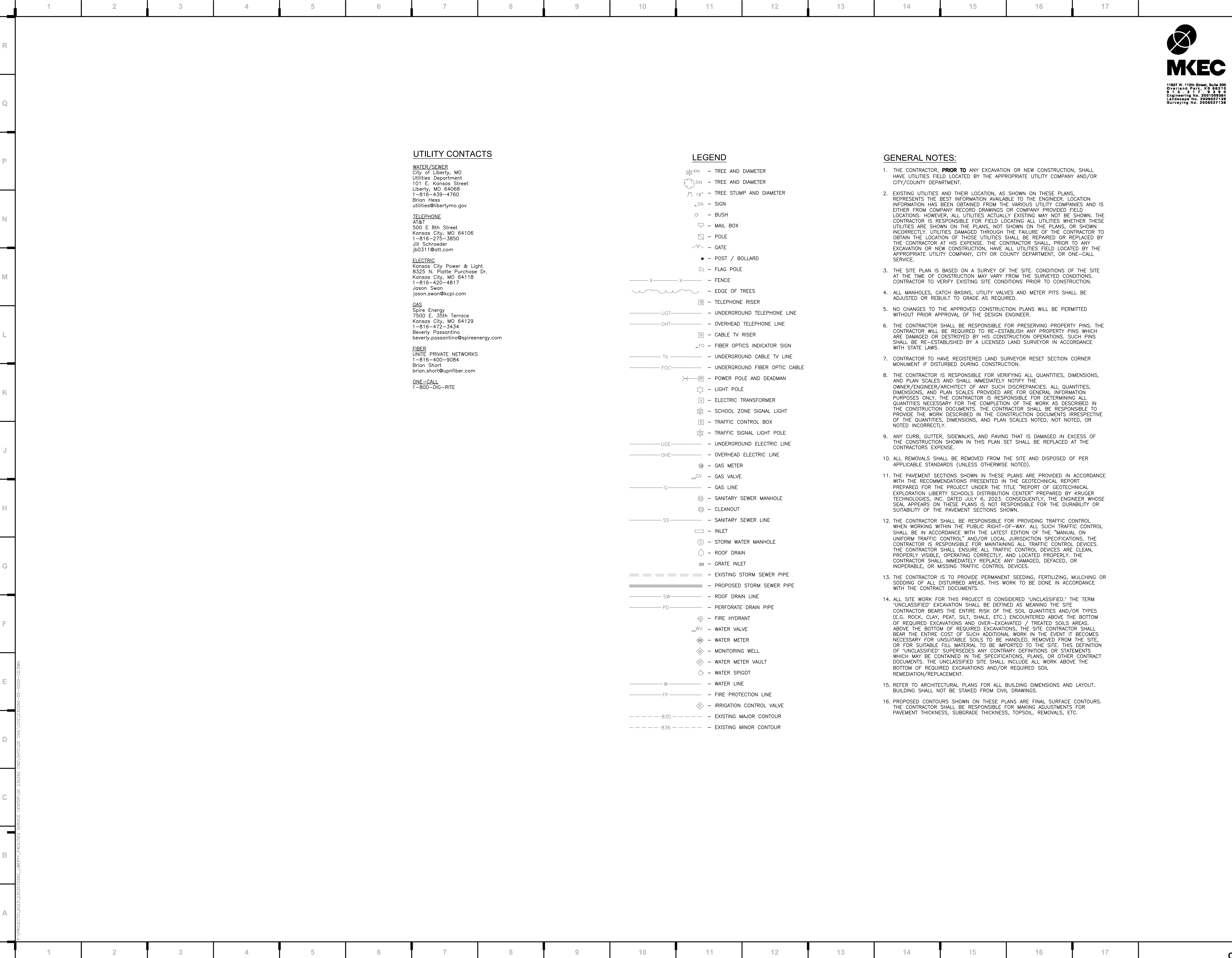
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11827 W. 112th St. Ste 200  
Overland Park, KS 66210  
913.317.5595 phone

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State Certificate of Authority #EGC-0001787  
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Olathe, KS 66061  
913.345.2127 phone

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Structural Engineer  
State Certificate of Authority #000442  
4338 Bellevue Ave  
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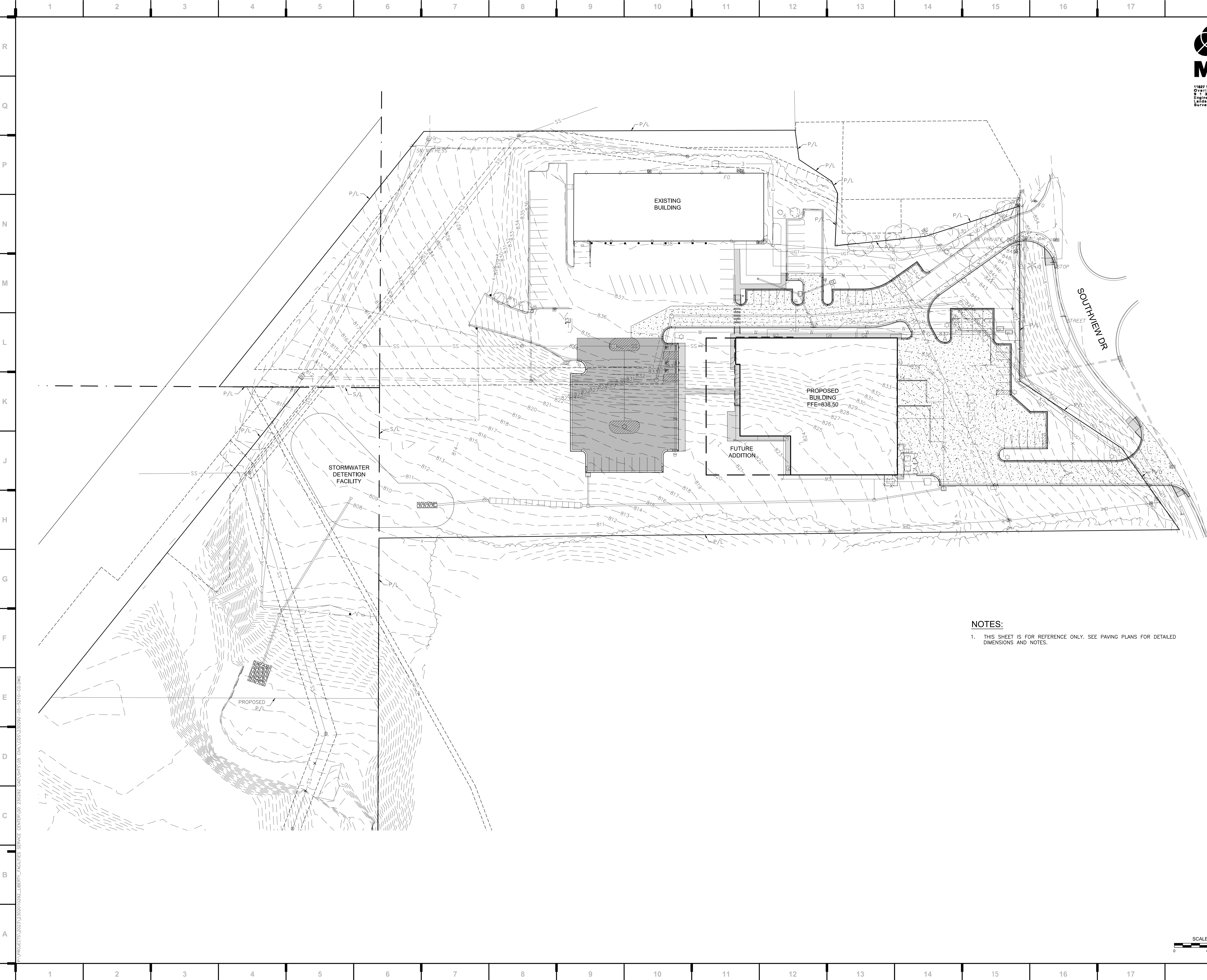


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Landscape: 2008027139  
Surveying: 2008027139  
11827 W. 112th St. Ste 200  
Overland Park, KS 66210  
913.317.5395 phone

**Smith & Boucher Engineers**  
Mech/Elect/Plumb Engineer  
State Certificate of Authority #ECC-0001787  
25501 W. Valley Parkway, Ste 200  
Olathe, KS 66061  
913.345.2127 phone

**Bob D Campbell**  
Structural Engineer  
State Certificate of Authority #000442  
4338 Bellevue Ave  
Kansas City, MO 64111  
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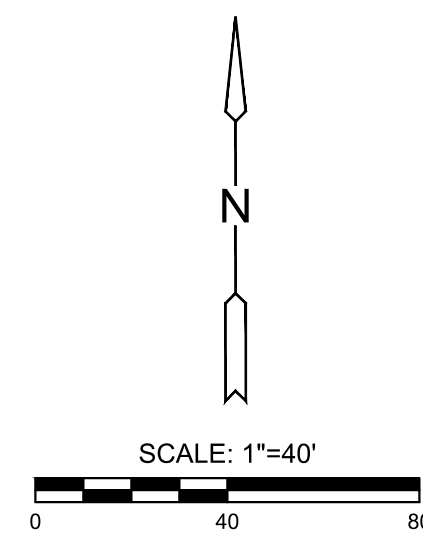


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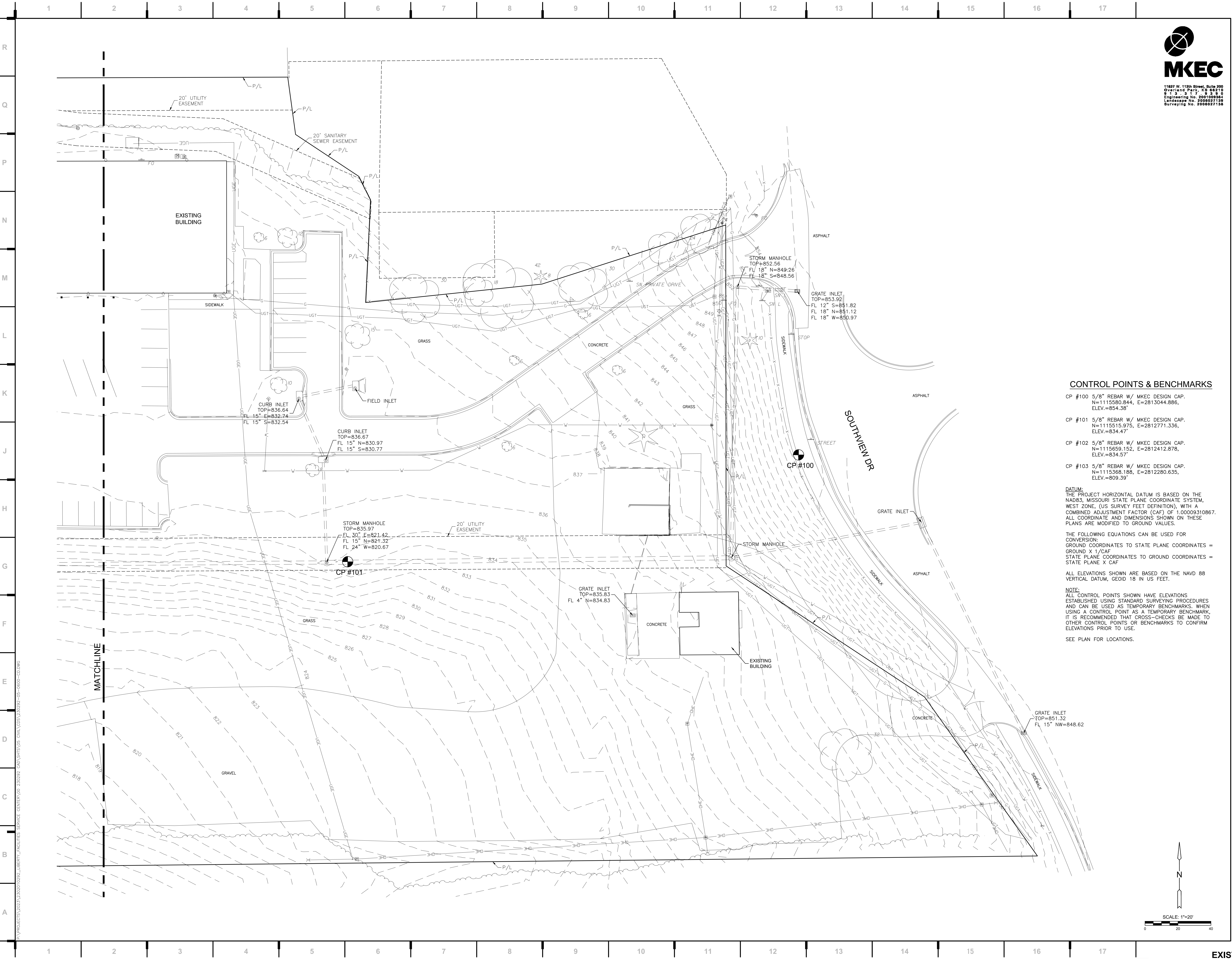
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OVERALL SITE PLAN



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Missouri State Certificate of Authority  
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Engineering: 2001009364  
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Mech/Elect/Plumb Engineer  
State Certificate of Authority #EGC-0001787  
25501 W. Valley Parkway, Ste 200  
Olathe, KS 66061  
913.345.2127 phone

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Structural Engineer  
State Certificate of Authority #000442  
4338 Bellevue Ave  
Kansas City, MO 64111  
816.531.4144 phone

**CONTROL POINTS & BENCHMARKS**

- CP #100 5/8" REBAR W/ MKEC DESIGN CAP.  
N=1115580.844, E=2813044.886,  
ELEV.=854.38'  
CP #101 5/8" REBAR W/ MKEC DESIGN CAP.  
N=1115515.975, E=2812771.336,  
ELEV.=834.47'  
CP #102 5/8" REBAR W/ MKEC DESIGN CAP.  
N=1115659.152, E=2812412.878,  
ELEV.=834.57'  
CP #103 5/8" REBAR W/ MKEC DESIGN CAP.  
N=1115368.186, E=2812280.635,  
ELEV.=809.39'

**DATUM:**  
THE PROJECT HORIZONTAL DATUM IS BASED ON THE  
NAD83, MISSOURI STATE PLANE COORDINATE SYSTEM,  
WEST ZONE, (US SURVEY FEET DEFINITION), WITH A  
COMBINED ADJUSTMENT FACTOR (CAF) OF 1.0009310867.  
ALL COORDINATE AND DIMENSIONS SHOWN ON THESE  
PLANS ARE MODIFIED TO GROUND VALUES.

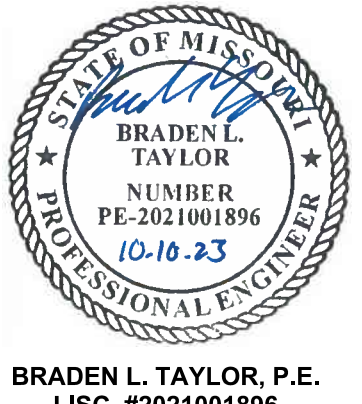
THE FOLLOWING EQUATIONS CAN BE USED FOR  
CONVERSION:  
GROUND COORDINATES TO STATE PLANE COORDINATES =  
GROUND X 1/CAF  
STATE PLANE COORDINATES TO GROUND COORDINATES =  
STATE PLANE X CAF

ALL ELEVATIONS SHOWN ARE BASED ON THE NAVD 88  
VERTICAL DATUM, GEOD 18 IN US FEET.

**NOTE:**  
ALL CONTROL POINTS SHOWN HAVE ELEVATIONS  
ESTABLISHED USING STANDARD SURVEYING PROCEDURES  
AND CAN BE USED AS TEMPORARY BENCHMARKS. WHEN  
USING A CONTROL POINT AS A TEMPORARY BENCHMARK,  
IT IS RECOMMENDED THAT CROSS-CHECKS BE MADE TO  
OTHER CONTROL POINTS OR BENCHMARKS TO CONFIRM  
ELEVATIONS PRIOR TO USE.  
SEE PLAN FOR LOCATIONS.

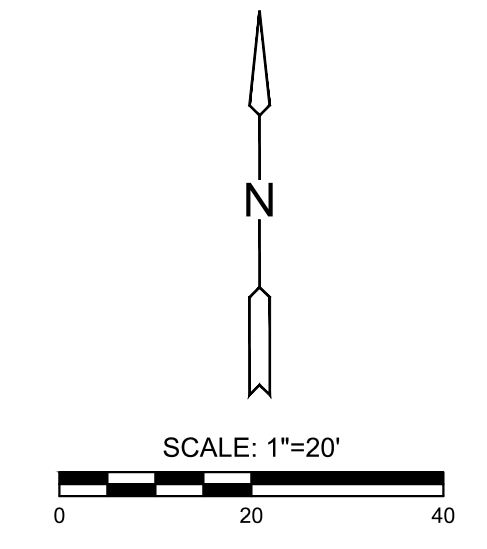
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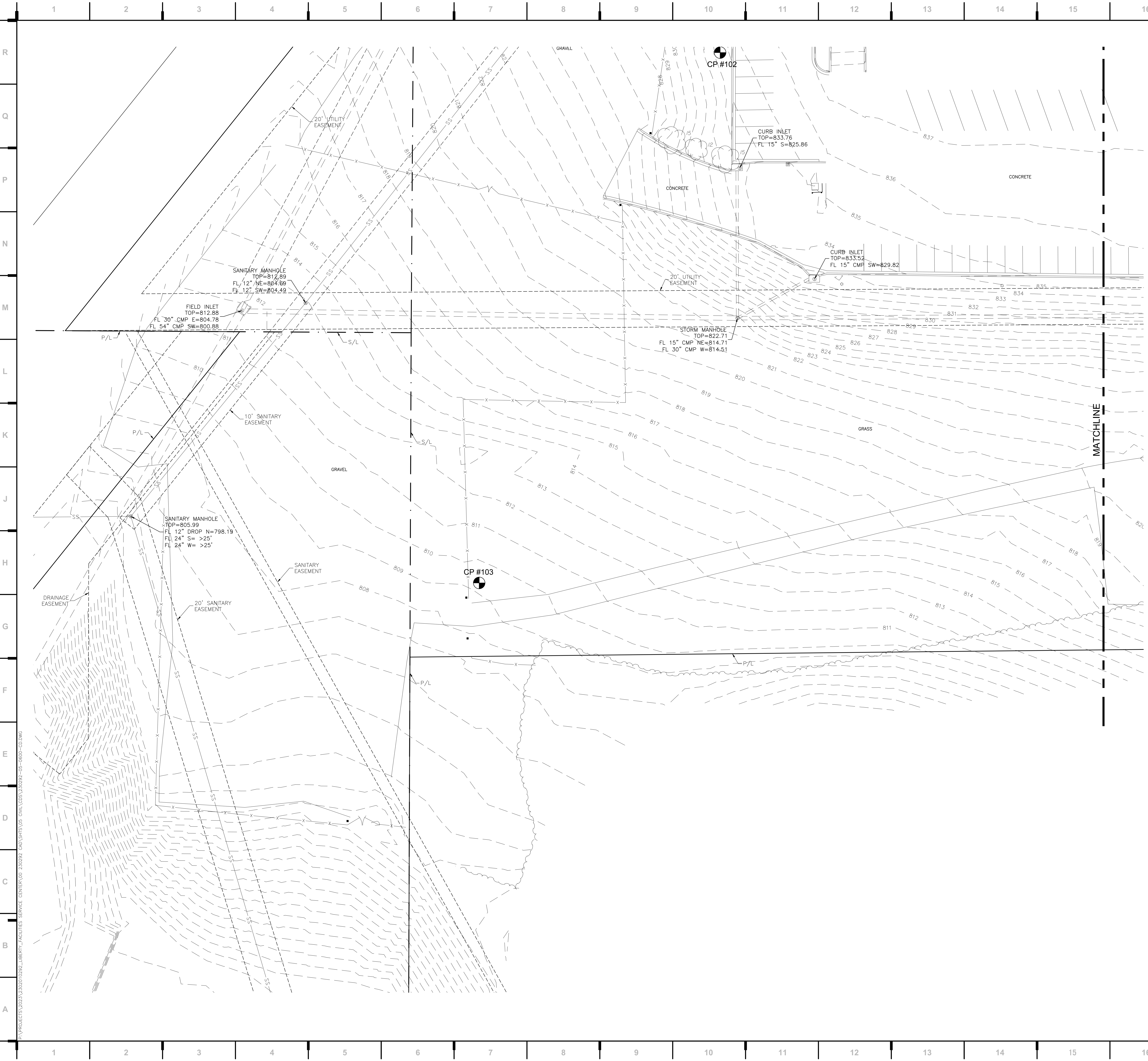


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Structure # 200001333

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Engineering: 2001009364  
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Surveying: 2008027139  
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Overland Park, KS 66210  
913.317.5395 phone

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State Certificate of Authority #EGC-0001787  
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Olathe, KS 66061  
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State Certificate of Authority #000442  
4336 Bellevue Ave  
Kansas City, MO 64111  
816.531.4144 phone

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N=1115368.188, E=2812280.635,  
ELEV.=809.39'

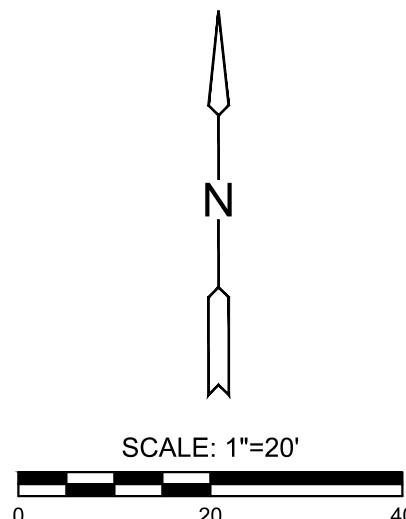
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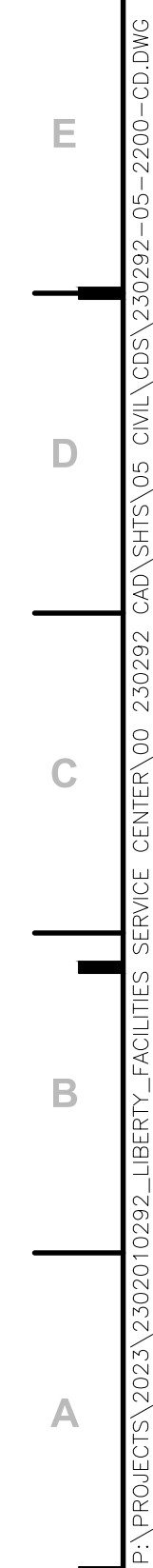


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GRATE TOP



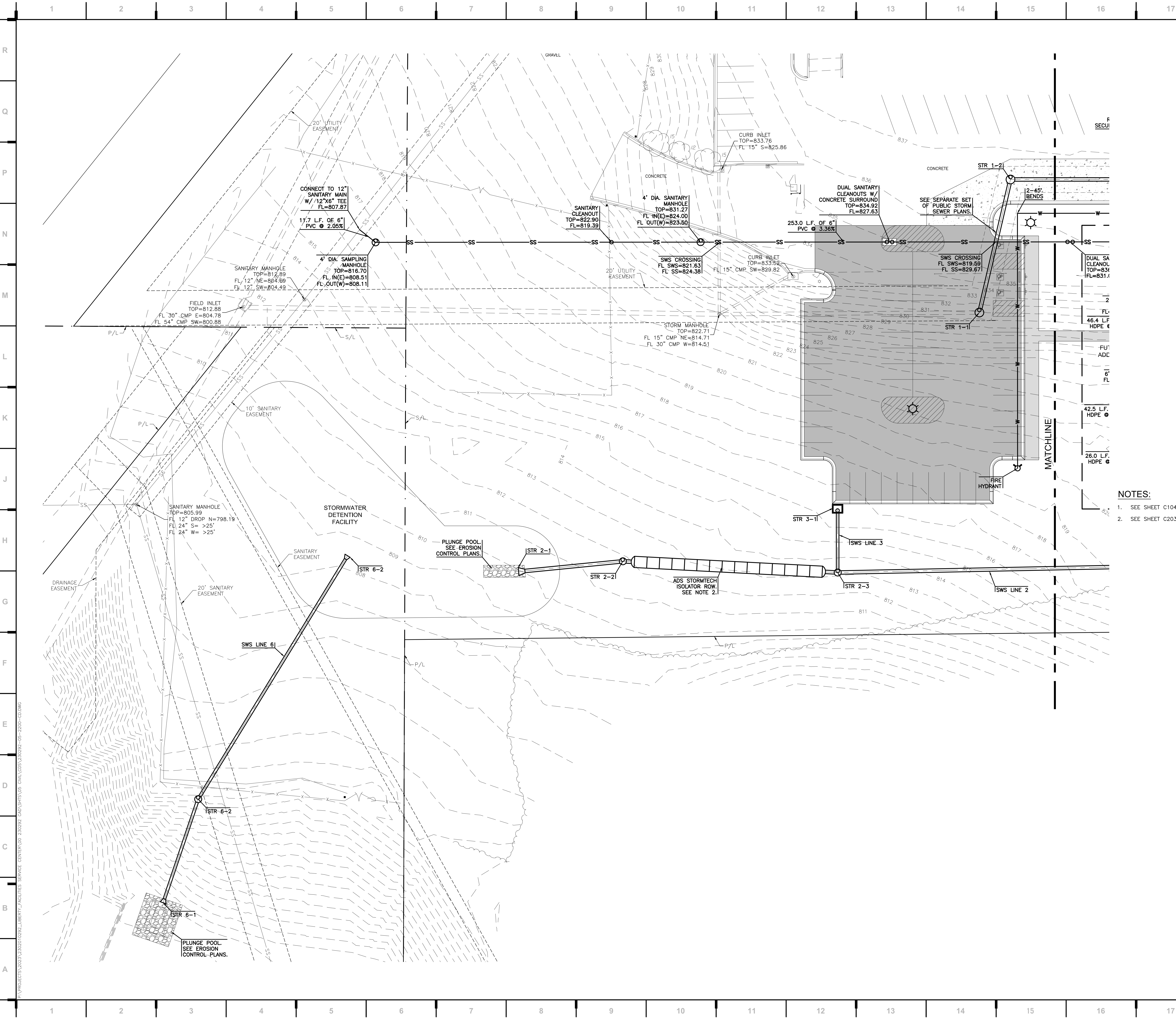
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Hollis + Miller Architects  
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Architecture # 000181  
Structure # 200031333

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Overland Park, KS 66210  
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25501 W. Valley Parkway, Ste 200  
Olathe, KS 66061  
913.345.2127 phone

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Structural Engineer  
State Certificate of Authority #000442  
4336 Bellevue Ave  
Kansas City, MO 64111  
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- NOTES:
- SEE SHEET C104 FOR UTILITY NOTES.
  - SEE SHEET C203 FOR ADS STORMTECH ISOLATOR ROW DETAIL.

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1	CITY COMMENTS	07.21.2023

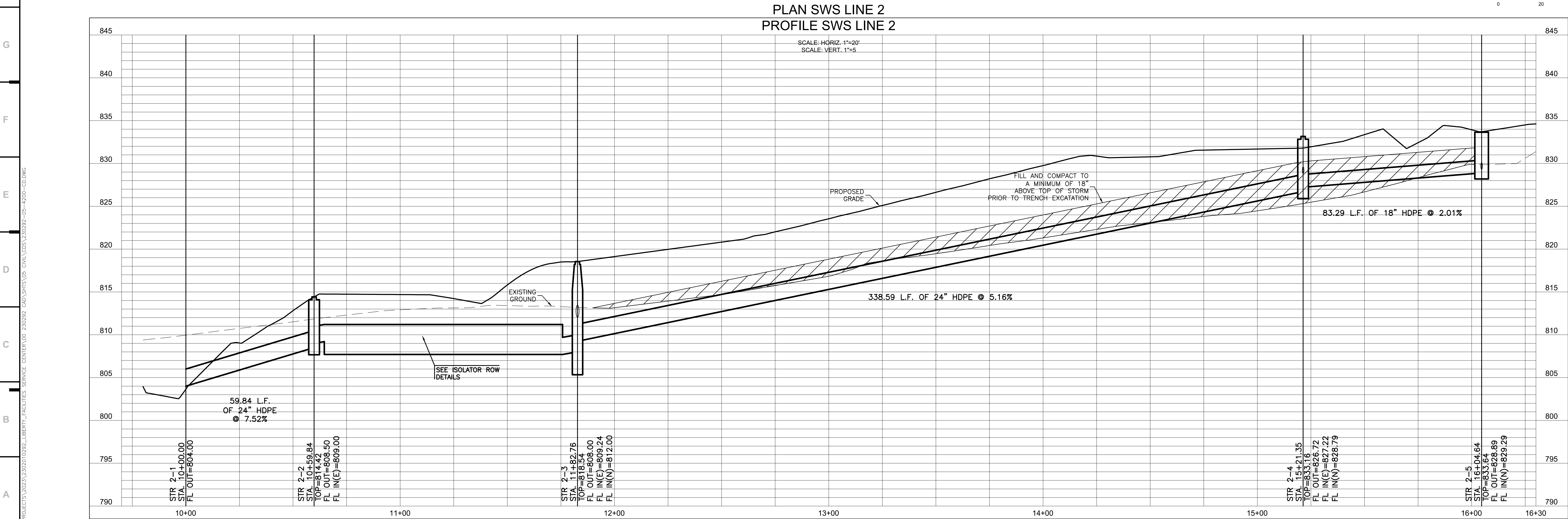
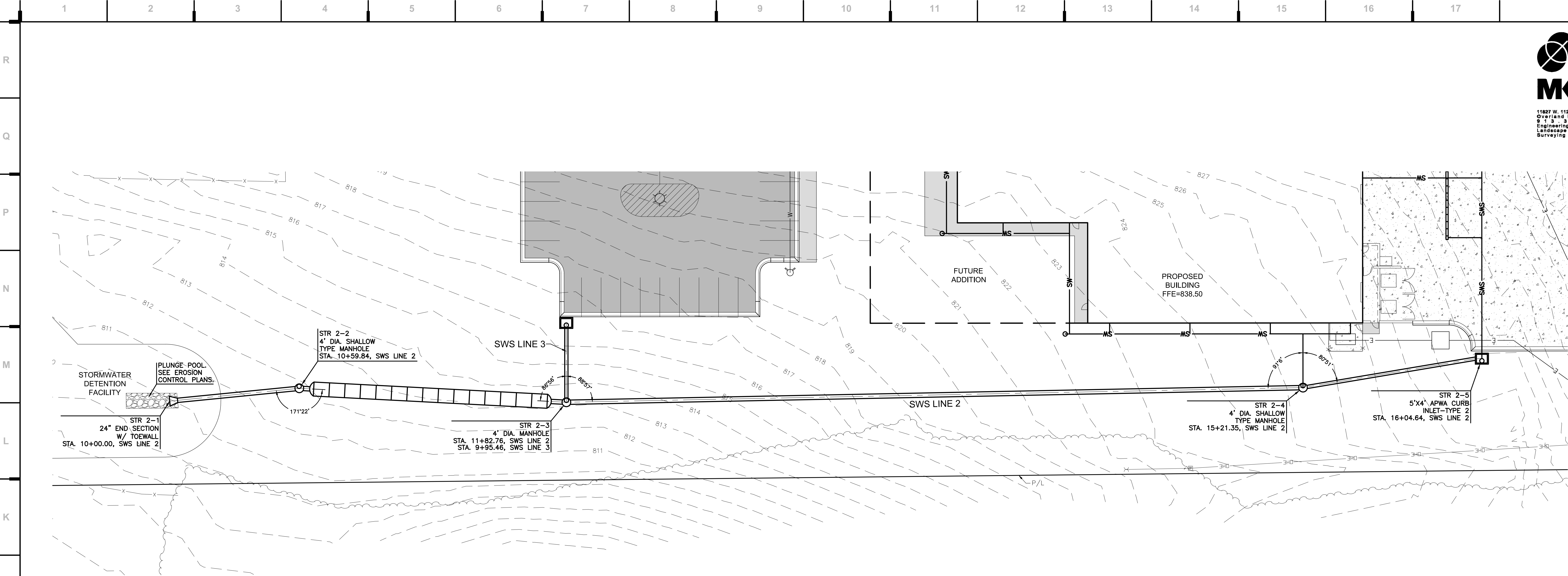



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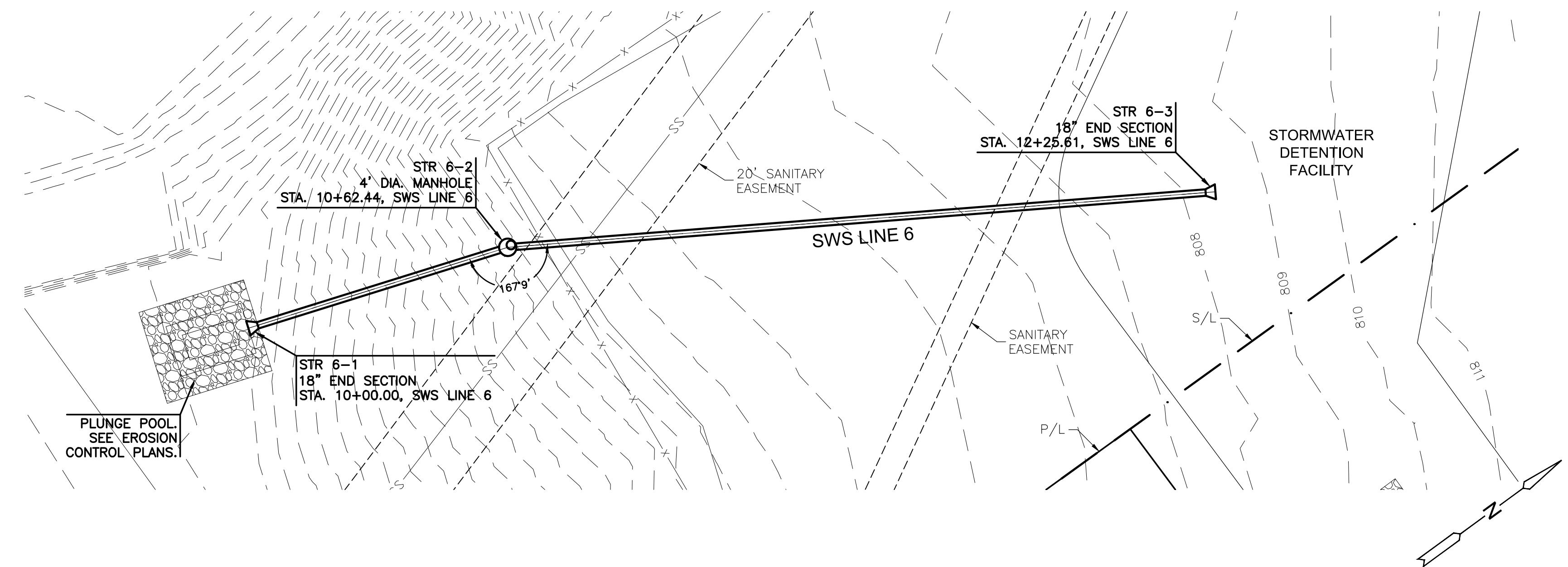
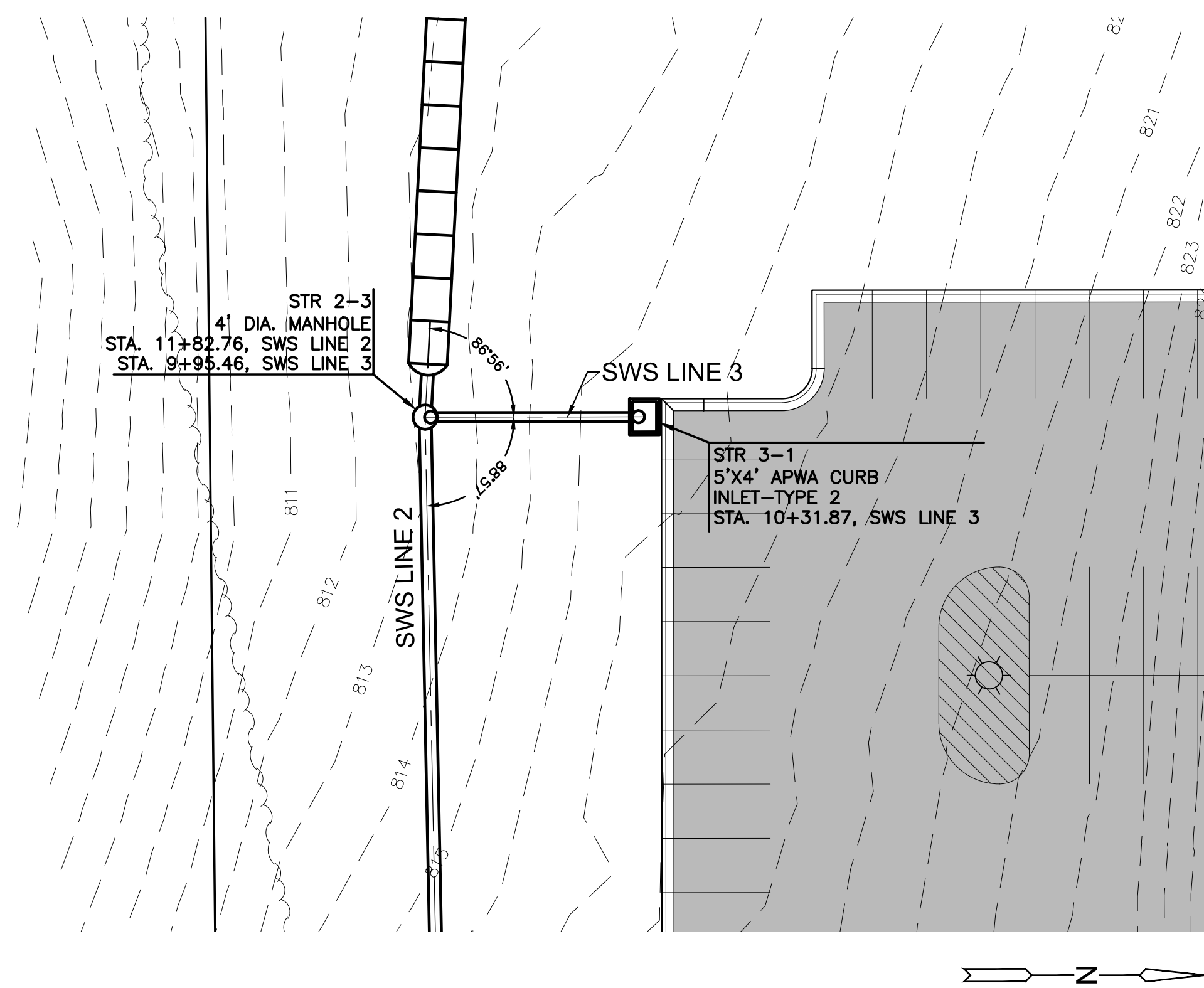
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**C106**

SWS LINE 2 PLAN & PROFILE

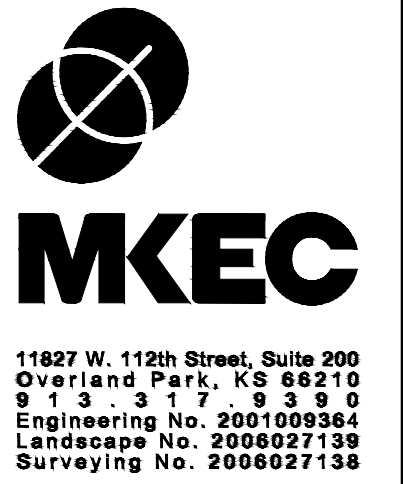
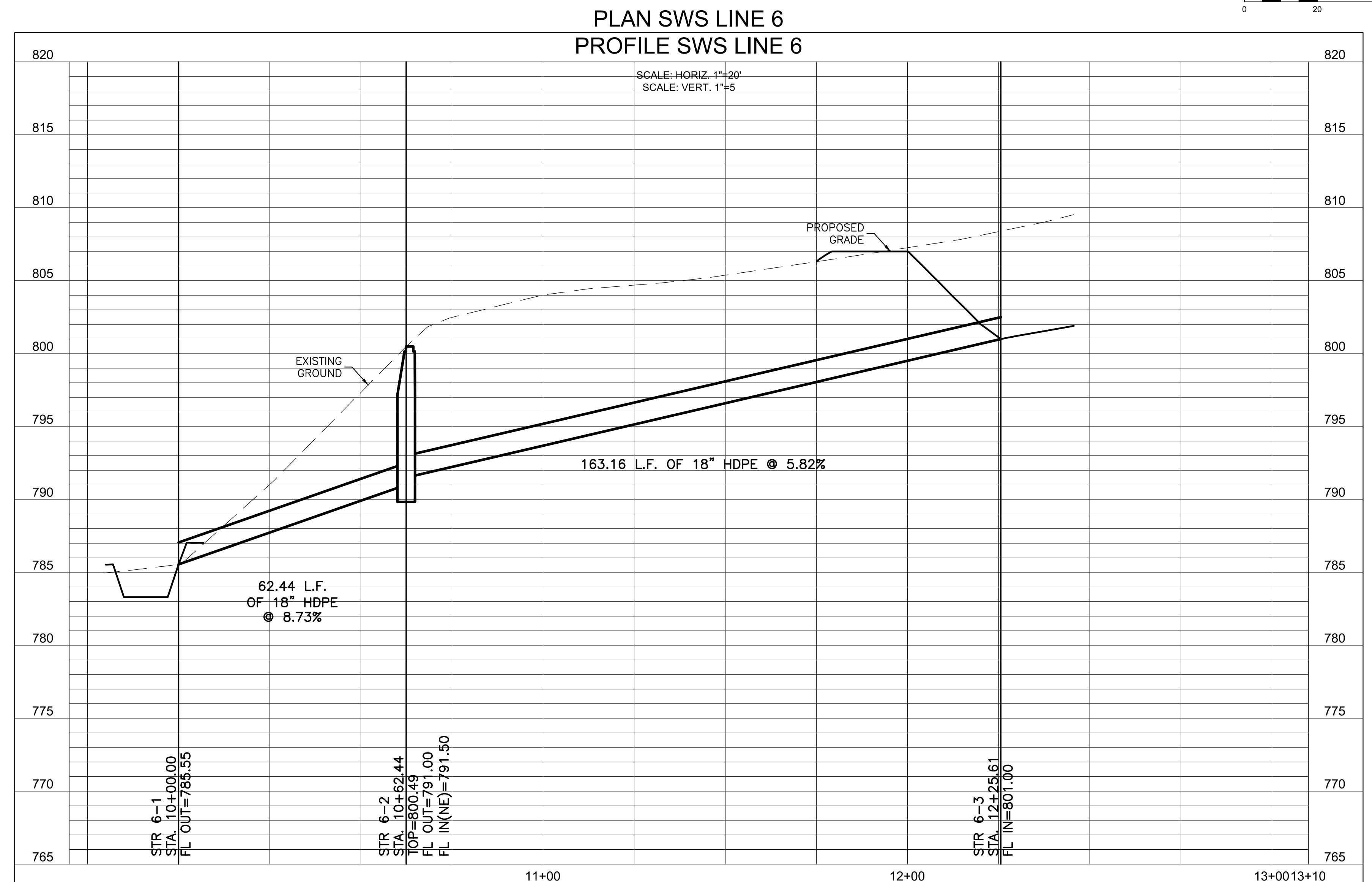
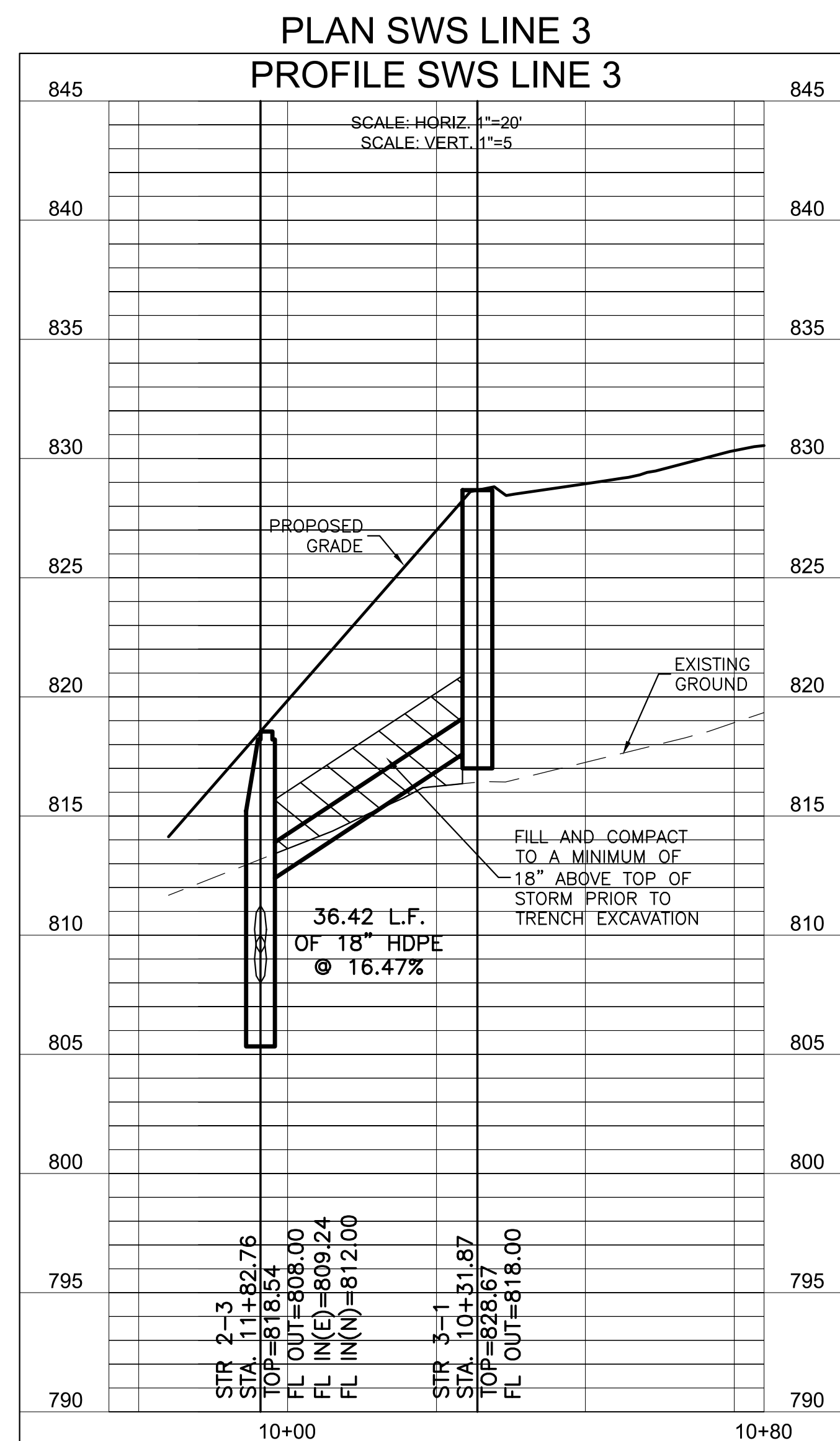
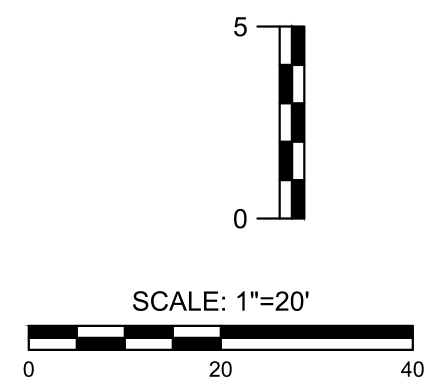
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NOTES:

1. SEE SHEET C104 FOR UTILITY NOTES.



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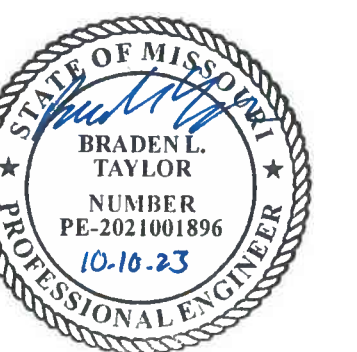
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3.317.9390 phone

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**RADEN L. TAYLOR, P.E.**  
**LISC. #2021001896**

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# C107

### SWS LINE 3 AND 6 PLAN & PROFILE

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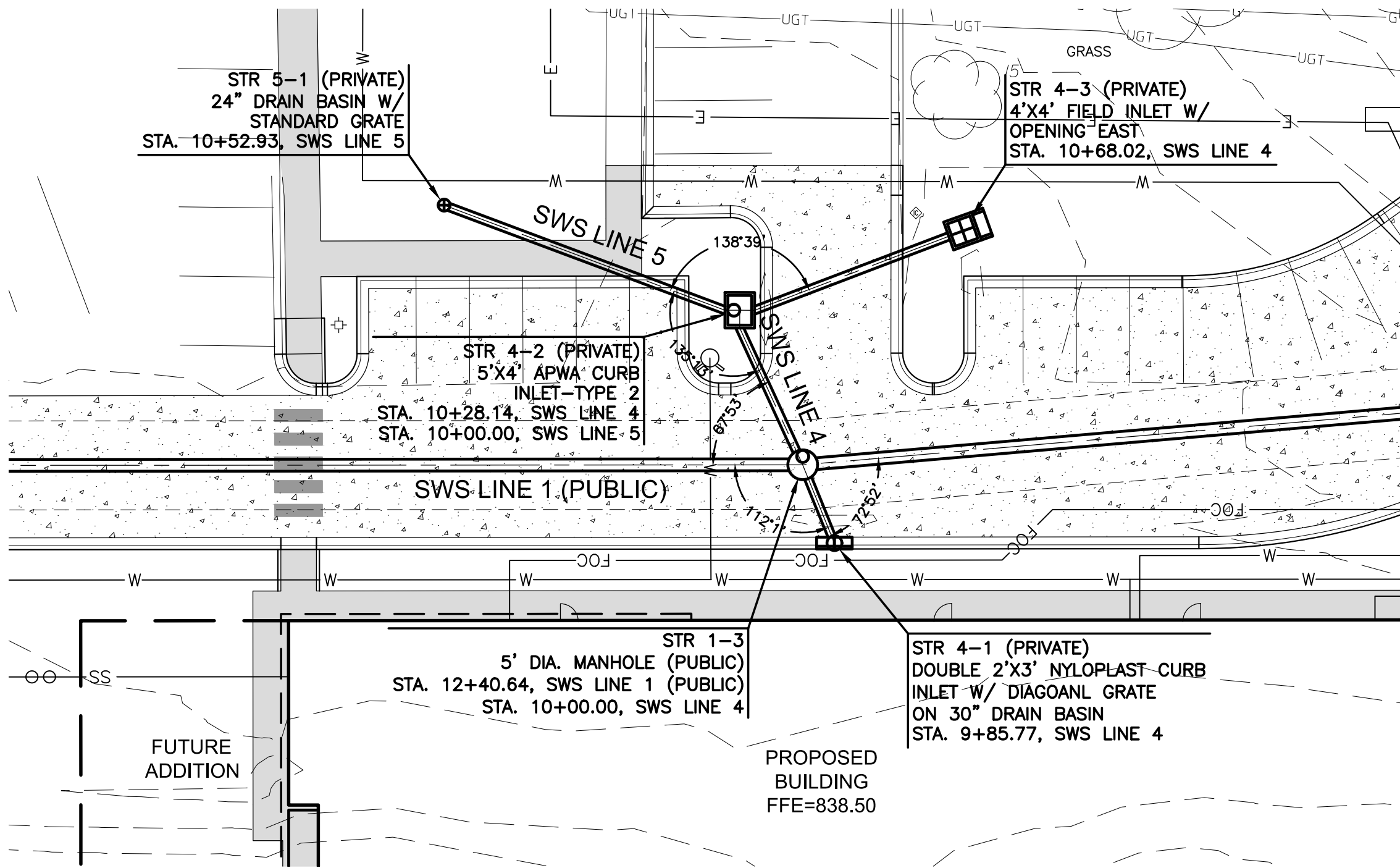
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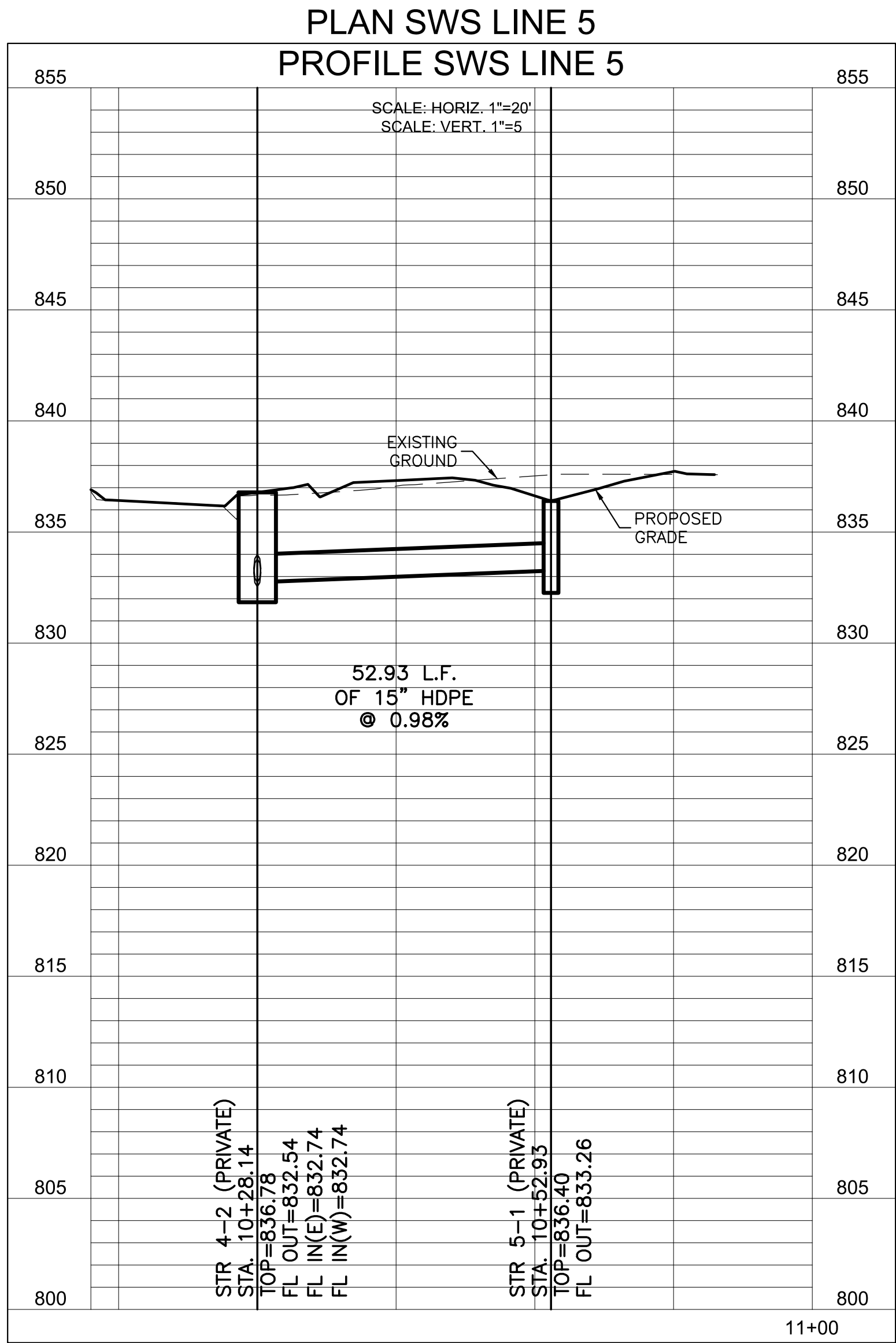
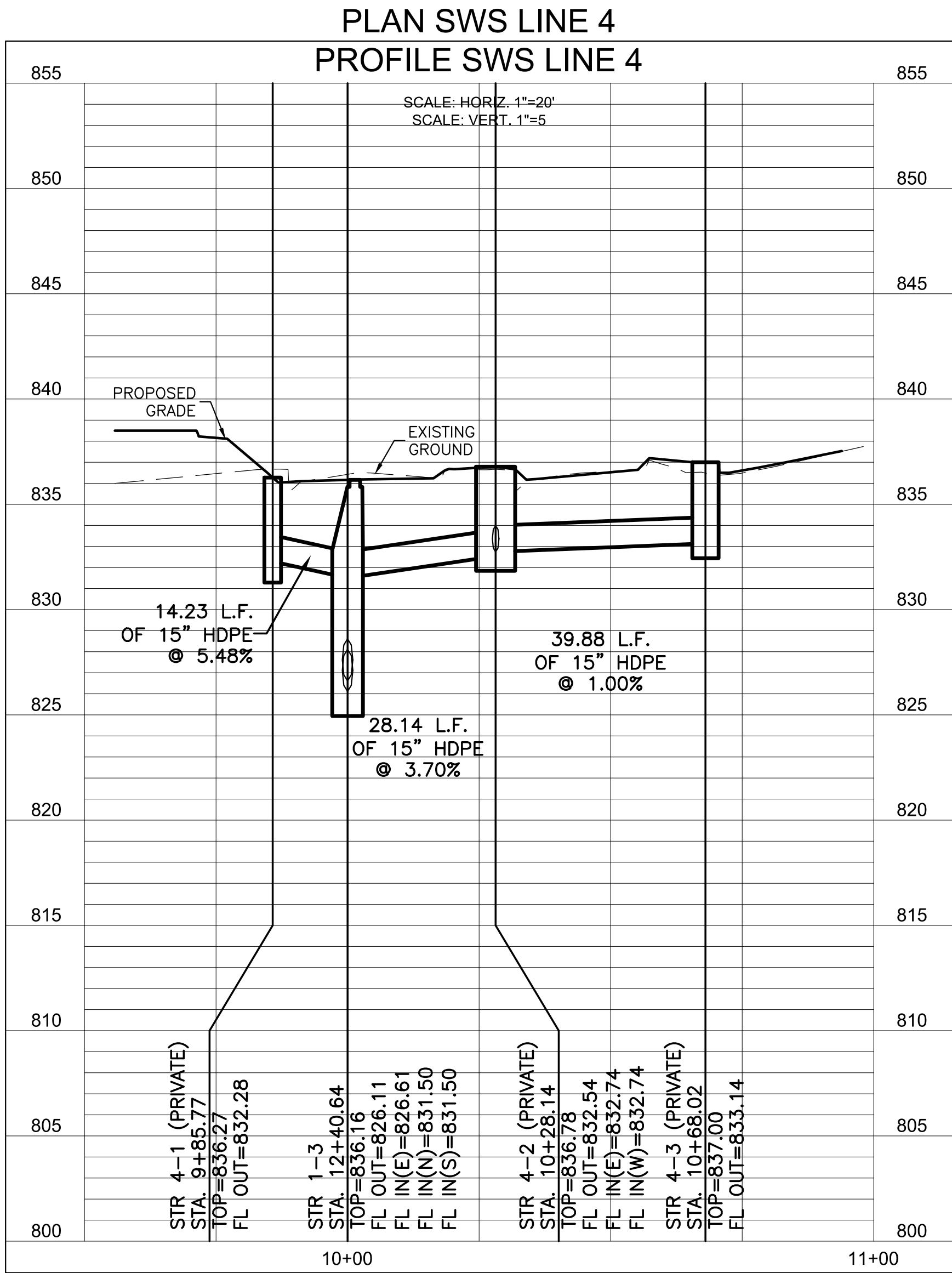
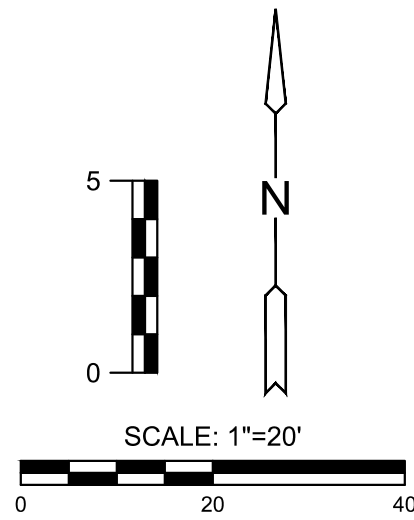
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11827 W. 112th St. Ste 200  
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913.317.5395 phone

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Mech/Elect/Plumb Engineer  
State Certificate of Authority #ECC-0001787  
25501 W. Valley Parkway, Ste 200  
Olathe, KS 66061  
913.345.2127 phone

**Bob D Campbell**  
Structural Engineer  
State Certificate of Authority #000442  
4336 Bellevue Ave  
Kansas City, MO 64111  
816.531.4144 phone



**NOTES:**  
1. SEE SHEET C104 FOR UTILITY NOTES.



CONSTRUCTION DOCUMENTS

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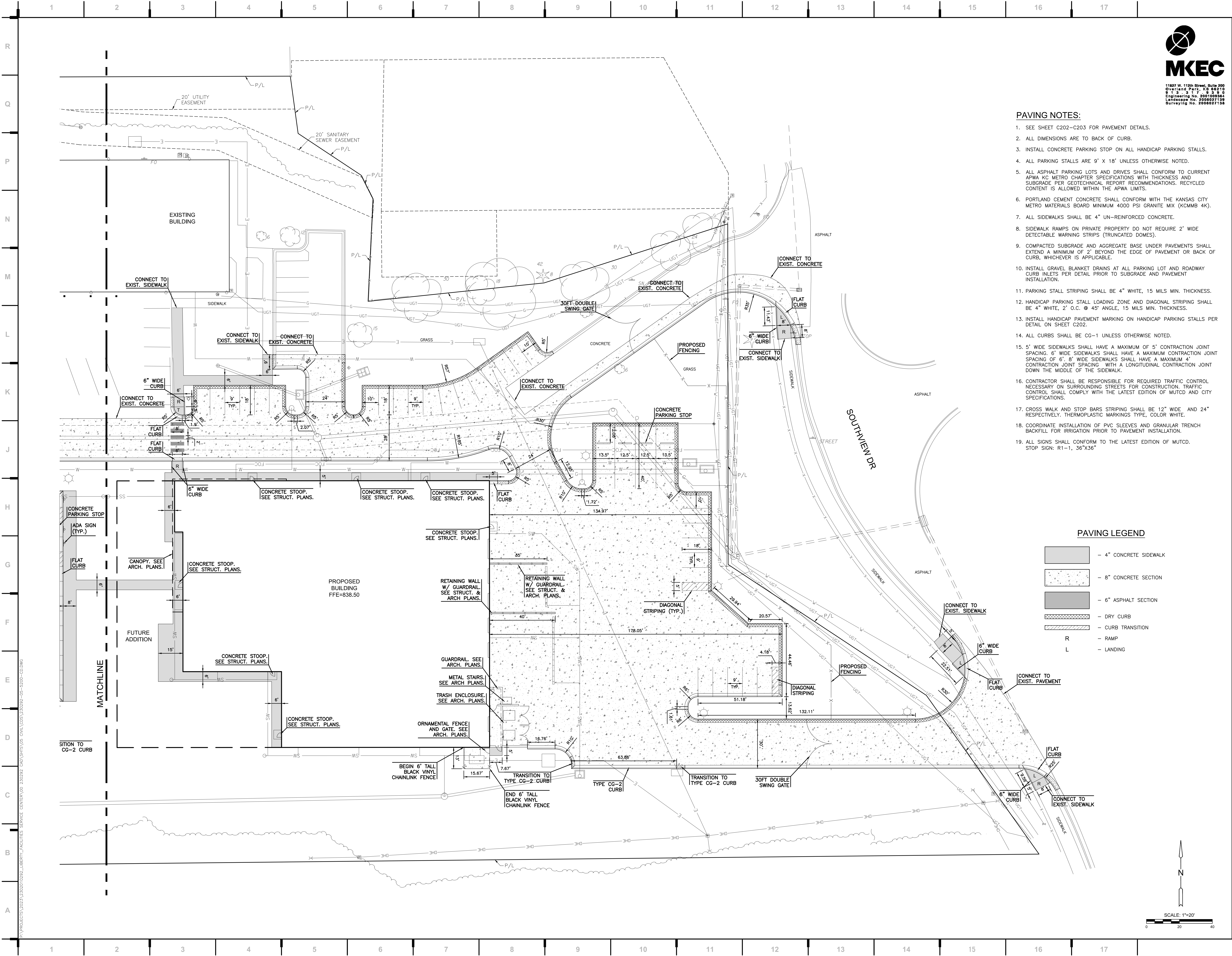


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**C108**

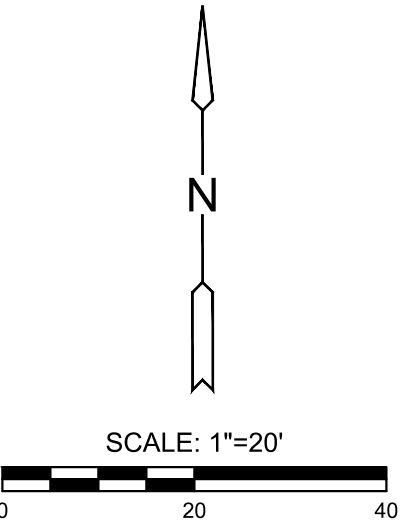




- PAVING NOTES:**
- SEE SHEET C202-C203 FOR PAVEMENT DETAILS.
  - ALL DIMENSIONS ARE TO BACK OF CURB.
  - INSTALL CONCRETE PARKING STOP ON ALL HANDICAP PARKING STALLS.
  - ALL PARKING STALLS ARE 9' X 18' UNLESS OTHERWISE NOTED.
  - ALL ASPHALT PARKING LOTS AND DRIVES SHALL CONFORM TO CURRENT APWA KC METRO CHAPTER SPECIFICATIONS WITH THICKNESS AND SUBGRADE PER GEOTECHNICAL REPORT RECOMMENDATIONS. RECYCLED CONTENT IS ALLOWED WITHIN THE APWA LIMITS.
  - PORTLAND CEMENT CONCRETE SHALL CONFORM WITH THE KANSAS CITY METRO MATERIALS BOARD MINIMUM 4000 PSI GRANITE MIX (KCMMB 4K).
  - ALL SIDEWALKS SHALL BE 4" UN-REINFORCED CONCRETE.
  - SIDEWALK RAMPS ON PRIVATE PROPERTY DO NOT REQUIRE 2' WIDE DETECTABLE WARNING STRIPS (TRUNCATED DOMES).
  - COMPACTED SUBGRADE AND AGGREGATE BASE UNDER PAVEMENTS SHALL EXTEND A MINIMUM OF 2' BEYOND THE EDGE OF PAVEMENT OR BACK OF CURB, WHICHEVER IS APPLICABLE.
  - INSTALL GRAVEL BLANKET DRAINS AT ALL PARKING LOT AND ROADWAY CURB INLETS PER DETAIL PRIOR TO SUBGRADE AND PAVEMENT INSTALLATION.
  - PARKING STALL STRIPING SHALL BE 4" WHITE, 15 MILS MIN. THICKNESS.
  - HANDICAP PARKING STALL LOADING ZONE AND DIAGONAL STRIPING SHALL BE 4" WHITE, 2' O.C. @ 45° ANGLE, 15 MILS MIN. THICKNESS.
  - INSTALL HANDICAP PAVEMENT MARKING ON HANDICAP PARKING STALLS PER DETAIL ON SHEET C202.
  - ALL CURBS SHALL BE CG-1 UNLESS OTHERWISE NOTED.
  - 5' WIDE SIDEWALKS SHALL HAVE A MAXIMUM OF 5' CONTRACTION JOINT SPACING. 6' WIDE SIDEWALKS SHALL HAVE A MAXIMUM CONTRACTION JOINT SPACING OF 6'. 8' WIDE SIDEWALKS SHALL HAVE A MAXIMUM 4' CONTRACTION JOINT SPACING. WITH A LONGITUDINAL CONTRACTION JOINT DOWN THE MIDDLE OF THE SIDEWALK.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR REQUIRED TRAFFIC CONTROL NECESSARY ON SURROUNDING STREETS FOR CONSTRUCTION. TRAFFIC CONTROL SHALL COMPLY WITH THE LATEST EDITION OF MUTCD AND CITY SPECIFICATIONS.
  - CROSS WALK AND STOP BARS STRIPING SHALL BE 12" WIDE AND 24" RESPECTIVELY. THERMOPLASTIC MARKINGS TYPE, COLOR WHITE.
  - COORDINATE INSTALLATION OF PVC SLEEVES AND GRANULAR TRENCH BACKFILL FOR IRRIGATION PRIOR TO PAVEMENT INSTALLATION.
  - ALL SIGNS SHALL CONFORM TO THE LATEST EDITION OF MUTCD. STOP SIGN: R1-1, 36"X36"

**PAVING LEGEND**

[Pattern]	4" CONCRETE SIDEWALK
[Pattern]	8" CONCRETE SECTION
[Pattern]	6" ASPHALT SECTION
[Pattern]	DRY CURB
[Pattern]	CURB TRANSITION
R	RAMP
L	LANDING



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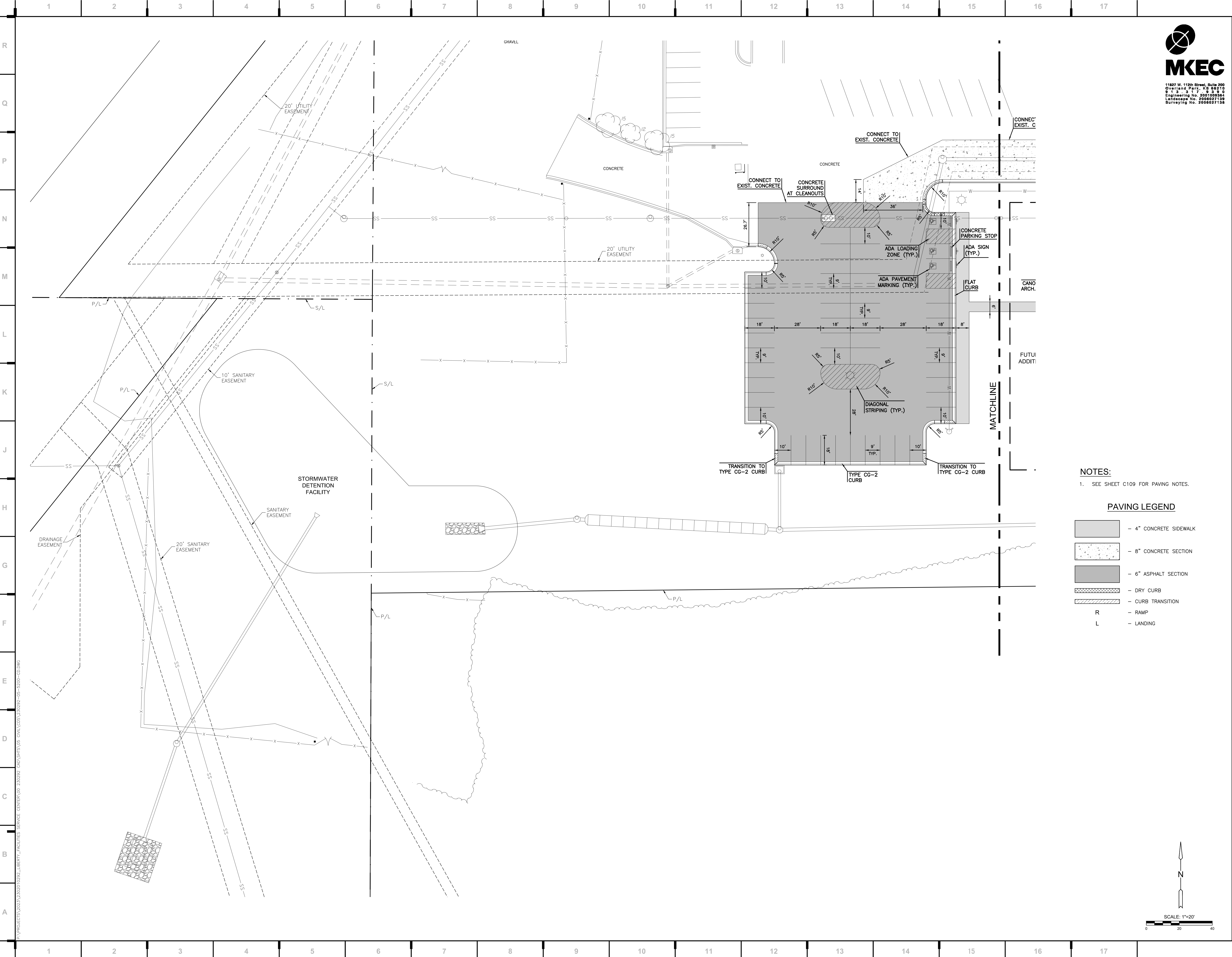
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913.317.5395 phone

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Mech/Elect/Plumb Engineer  
State Certificate of Authority #0001787  
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913.345.2127 phone

**Bob D Campbell**  
Structural Engineer  
State Certificate of Authority #000442  
4336 Bellevue Ave  
Kansas City, MO 64111  
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NOTES:

1. SEE SHEET C109 FOR PAVING NOTES.

PAVING LEGEND

- 4" CONCRETE SIDEWALK
- 8" CONCRETE SECTION
- 6" ASPHALT SECTION
- DRY CURB
- CURB TRANSITION
- RAMP
- LANDING

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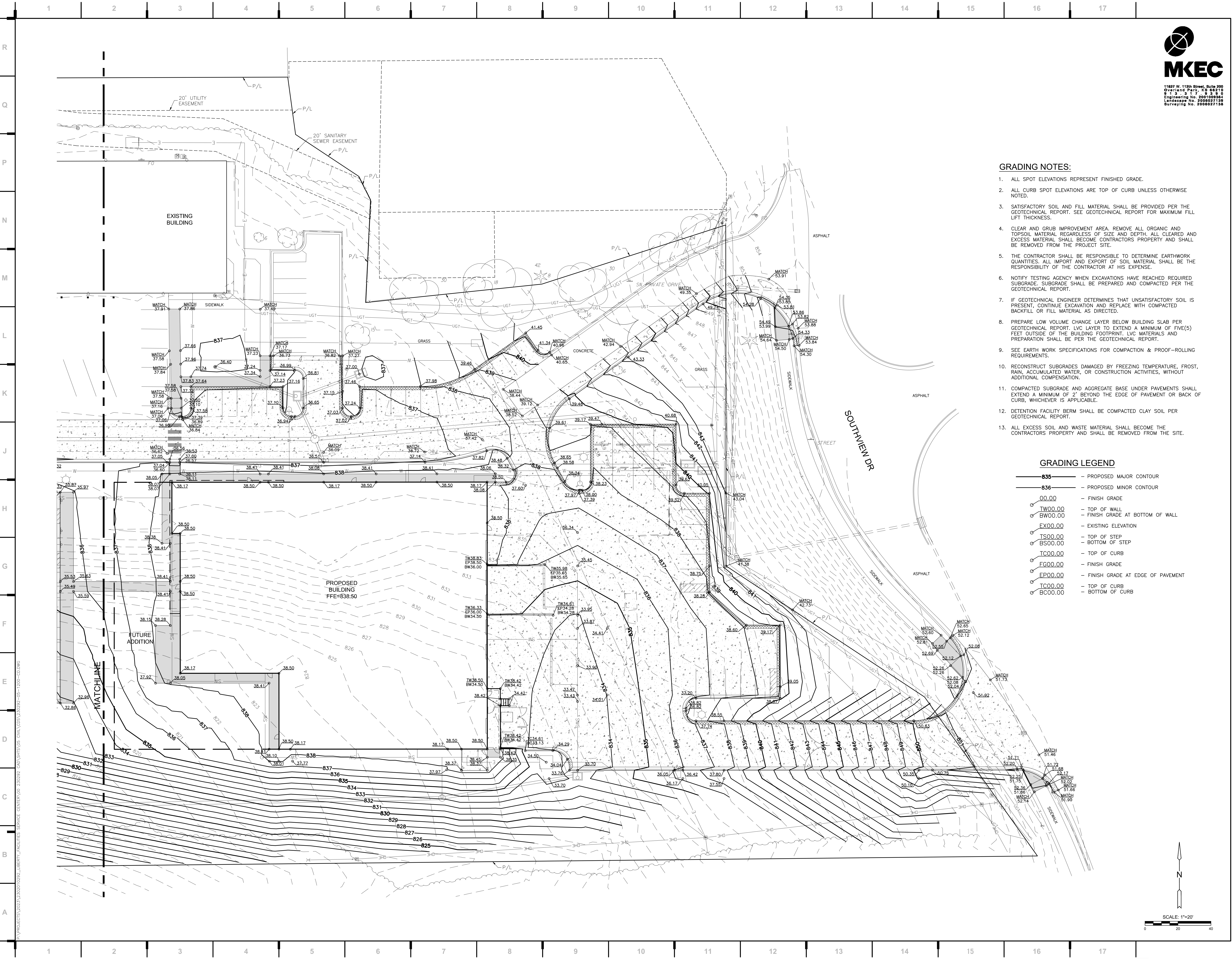


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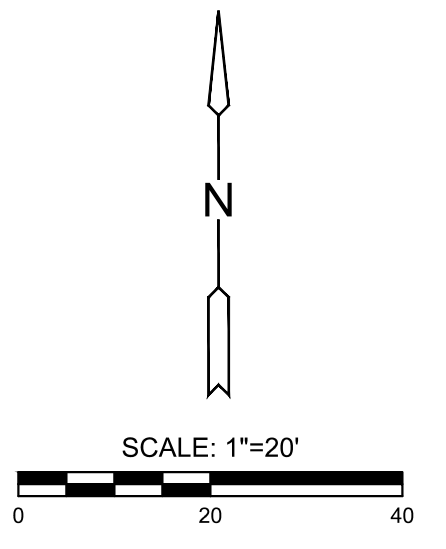


**GRADING NOTES:**

1. ALL SPOT ELEVATIONS REPRESENT FINISHED GRADE.
2. ALL CURB SPOT ELEVATIONS ARE TOP OF CURB UNLESS OTHERWISE NOTED.
3. SATISFACTORY SOIL AND FILL MATERIAL SHALL BE PROVIDED PER THE GEOTECHNICAL REPORT. SEE GEOTECHNICAL REPORT FOR MAXIMUM FILL LIFT THICKNESS.
4. CLEAR AND GRUB IMPROVEMENT AREA. REMOVE ALL ORGANIC AND TOPSOIL MATERIAL REGARDLESS OF SIZE AND DEPTH. ALL CLEARED AND EXCESS MATERIAL SHALL BECOME CONTRACTORS PROPERTY AND SHALL BE REMOVED FROM THE PROJECT SITE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE EARTHWORK QUANTITIES. ALL IMPORT AND EXPORT OF SOIL MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT HIS EXPENSE.
6. NOTIFY TESTING AGENCY WHEN EXCAVATIONS HAVE REACHED REQUIRED SUBGRADE. SUBGRADE SHALL BE PREPARED AND COMPACTED PER THE GEOTECHNICAL REPORT.
7. IF GEOTECHNICAL ENGINEER DETERMINES THAT UNSATISFACTORY SOIL IS PRESENT, CONTINUE EXCAVATION AND REPLACE WITH COMPACTED BACKFILL OR FILL MATERIAL AS DIRECTED.
8. PREPARE LOW VOLUME CHANGE LAYER BELOW BUILDING SLAB PER GEOTECHNICAL REPORT. LVC LAYER TO EXTEND A MINIMUM OF FIVE(5) FEET OUTSIDE OF THE BUILDING FOOTPRINT. LVC MATERIALS AND PREPARATION SHALL BE PER THE GEOTECHNICAL REPORT.
9. SEE EARTH WORK SPECIFICATIONS FOR COMPACTION & PROOF-ROLLING REQUIREMENTS.
10. RECONSTRUCT SUBGRADES DAMAGED BY FREEZING TEMPERATURE, FROST, RAIN, ACCUMULATED WATER, OR CONSTRUCTION ACTIVITIES, WITHOUT ADDITIONAL COMPENSATION.
11. COMPACTED SUBGRADE AND AGGREGATE BASE UNDER PAVEMENTS SHALL EXTEND A MINIMUM OF 2' BEYOND THE EDGE OF PAVEMENT OR BACK OF CURB, WHICHEVER IS APPLICABLE.
12. DETENTION FACILITY BERM SHALL BE COMPACTED CLAY SOIL PER GEOTECHNICAL REPORT.
13. ALL EXCESS SOIL AND WASTE MATERIAL SHALL BECOME THE CONTRACTORS PROPERTY AND SHALL BE REMOVED FROM THE SITE.

**GRADING LEGEND**

- 835 — PROPOSED MAJOR CONTOUR
- 836 — PROPOSED MINOR CONTOUR
- 00.00 — FINISH GRADE
- TW00.00 — TOP OF WALL
- BW00.00 — FINISH GRADE AT BOTTOM OF WALL
- EX00.00 — EXISTING ELEVATION
- TS00.00 — TOP OF STEP
- BS00.00 — BOTTOM OF STEP
- TC00.00 — TOP OF CURB
- FG00.00 — FINISH GRADE
- EP00.00 — FINISH GRADE AT EDGE OF PAVEMENT
- TC00.00 — TOP OF CURB
- BC00.00 — BOTTOM OF CURB



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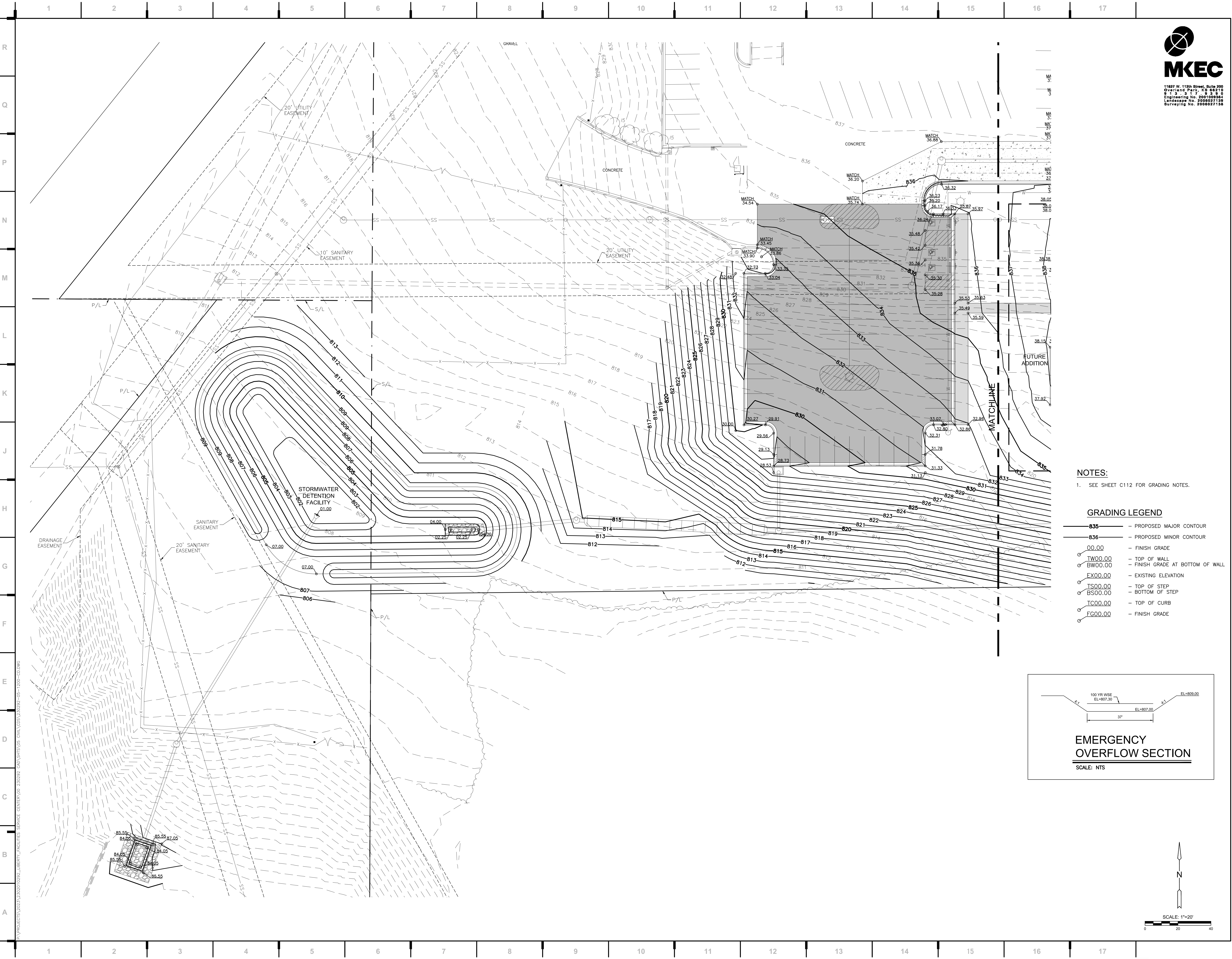
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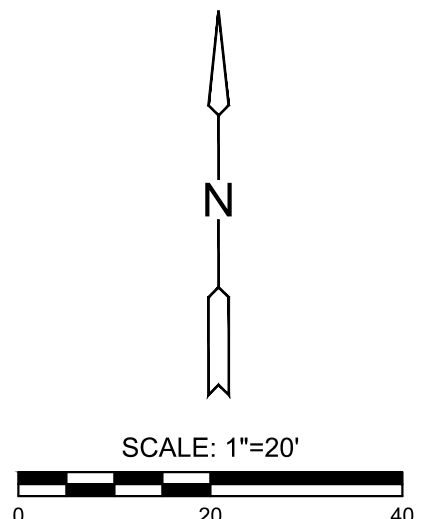
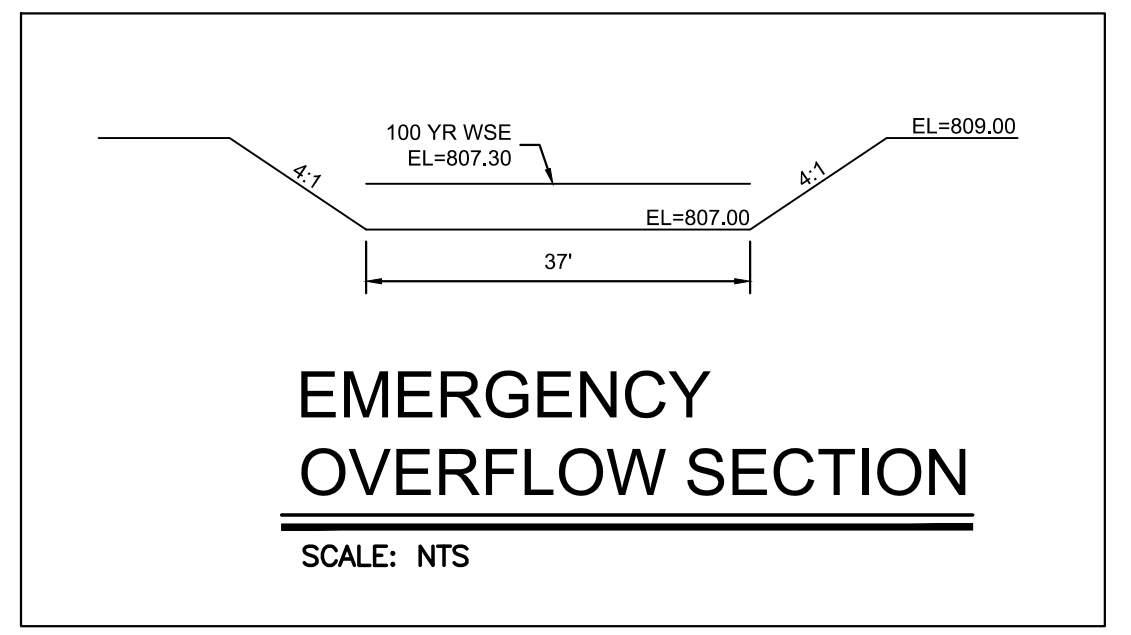
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**NOTES:**

- SEE SHEET C112 FOR GRADING NOTES.

**GRADING LEGEND**

- 835** — PROPOSED MAJOR CONTOUR
- 836** — PROPOSED MINOR CONTOUR
- 00.00** — FINISH GRADE
- TW00.00** — TOP OF WALL
- BW00.00** — FINISH GRADE AT BOTTOM OF WALL
- EX00.00** — EXISTING ELEVATION
- TS00.00** — TOP OF STEP
- BS00.00** — BOTTOM OF STEP
- TC00.00** — TOP OF CURB
- FG00.00** — FINISH GRADE



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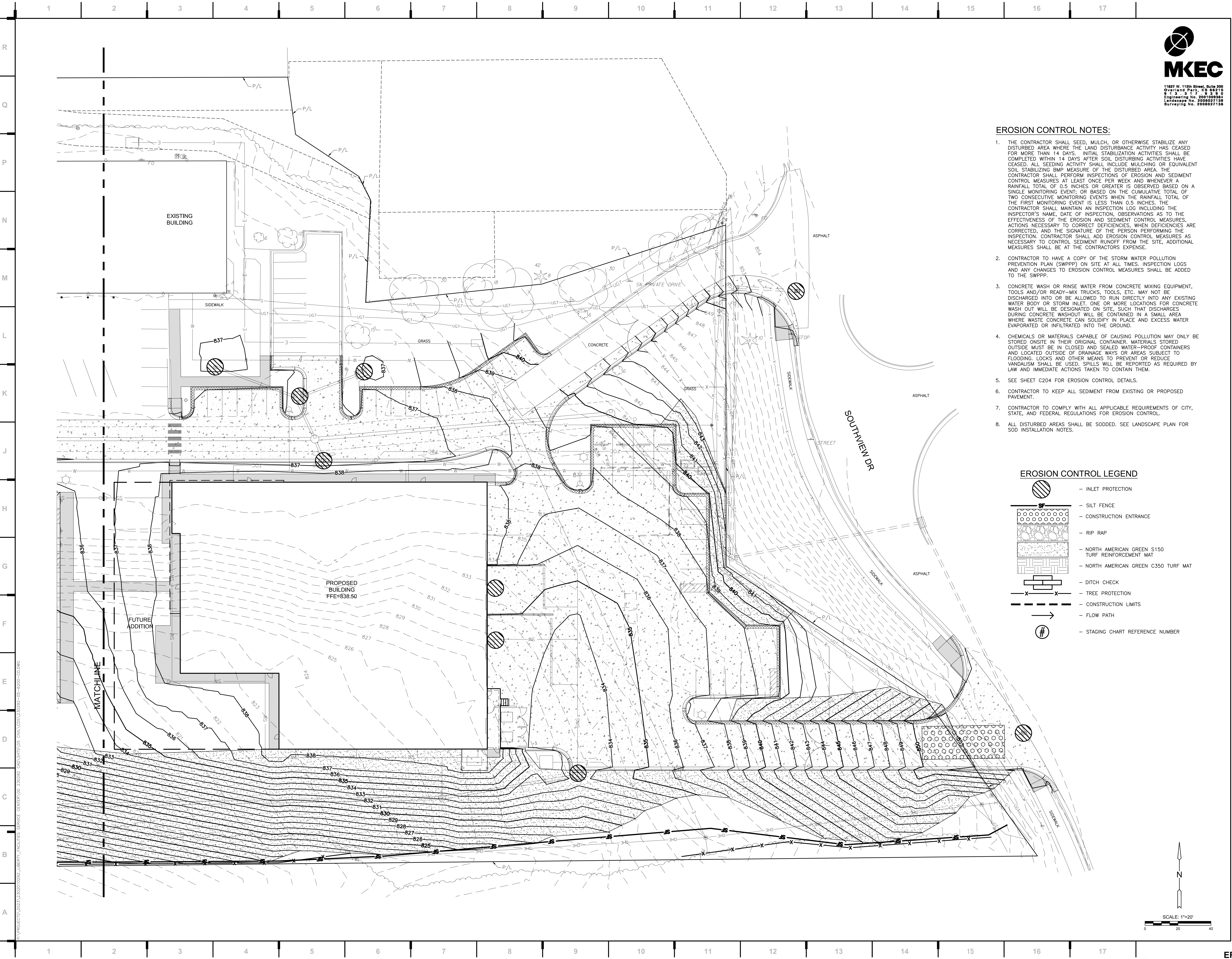


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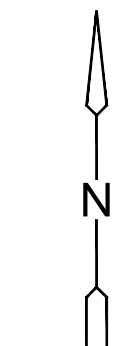


EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL SEED, MULCH, OR OTHERWISE STABILIZE ANY DISTURBED AREA WHERE THE LAND DISTURBANCE ACTIVITY HAS CEASED FOR MORE THAN 14 DAYS. INITIAL STABILIZATION ACTIVITIES SHALL BE COMPLETED WITHIN 14 DAYS AFTER SOIL DISTURBING ACTIVITIES HAVE CEASED. ALL SEEDING ACTIVITY SHALL INCLUDE MULCHING OR EQUIVALENT SOIL STABILIZING BMP MEASURE OF THE DISTURBED AREA. THE CONTRACTOR SHALL PERFORM INSPECTIONS OF EROSION AND SEDIMENT CONTROL MEASURES AT LEAST ONCE PER WEEK AND WHENEVER A RAINFALL TOTAL OF 0.5 INCHES OR GREATER IS OBSERVED BASED ON A SINGLE MONITORING EVENT; OR BASED ON THE CUMULATIVE TOTAL OF TWO CONSECUTIVE MONITORING EVENTS WHEN THE RAINFALL TOTAL OF THE FIRST MONITORING EVENT IS LESS THAN 0.5 INCHES. THE CONTRACTOR SHALL MAINTAIN AN INSPECTION LOG INCLUDING THE INSPECTOR'S NAME, DATE OF INSPECTION, OBSERVATIONS AS TO THE EFFECTIVENESS OF THE EROSION AND SEDIMENT CONTROL MEASURES, ACTIONS NECESSARY TO CORRECT DEFICIENCIES, WHEN DEFICIENCIES ARE CORRECTED, AND THE SIGNATURE OF THE PERSON PERFORMING THE INSPECTION. CONTRACTOR SHALL ADD EROSION CONTROL MEASURES AS NECESSARY TO CONTROL SEDIMENT RUNOFF FROM THE SITE, ADDITIONAL MEASURES SHALL BE AT THE CONTRACTORS' EXPENSE.
2. CONTRACTOR TO HAVE A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) ON SITE AT ALL TIMES. INSPECTION LOGS AND ANY CHANGES TO EROSION CONTROL MEASURES SHALL BE ADDED TO THE SWPPP.
3. CONCRETE WASH OR RINSE WATER FROM CONCRETE MIXING EQUIPMENT, TOOLS AND/OR READY-MIX TRUCKS, TOOLS, ETC. MAY NOT BE DISCHARGED INTO OR BE ALLOWED TO RUN DIRECTLY INTO ANY EXISTING WATER BODY OR STORM INLET. ONE OR MORE LOCATIONS FOR CONCRETE WASH OUT WILL BE DESIGNATED ON SITE, SUCH THAT DISCHARGES DURING CONCRETE WASHOUT WILL BE CONTAINED IN A SMALL AREA WHERE WASTE CONCRETE CAN SOLIDIFY IN PLACE AND EXCESS WATER EVAPORATED OR INFILTRATED INTO THE GROUND.
4. CHEMICALS OR MATERIALS CAPABLE OF CAUSING POLLUTION MAY ONLY BE STORED ONSITE IN THEIR ORIGINAL CONTAINER. MATERIALS STORED OUTSIDE MUST BE IN CLOSED AND SEALED WATER-PROOF CONTAINERS AND LOCATED OUTSIDE OF DRAINAGE WAYS OR AREAS SUBJECT TO FLOODING. LOCKS AND OTHER MEANS TO PREVENT OR REDUCE VANDALISM SHALL BE USED. SPILLS WILL BE REPORTED AS REQUIRED BY LAW AND IMMEDIATE ACTIONS TAKEN TO CONTAIN THEM.
5. SEE SHEET C204 FOR EROSION CONTROL DETAILS.
6. CONTRACTOR TO KEEP ALL SEDIMENT FROM EXISTING OR PROPOSED PAVEMENT.
7. CONTRACTOR TO COMPLY WITH ALL APPLICABLE REQUIREMENTS OF CITY, STATE, AND FEDERAL REGULATIONS FOR EROSION CONTROL.
8. ALL DISTURBED AREAS SHALL BE SODDED. SEE LANDSCAPE PLAN FOR SOD INSTALLATION NOTES.

EROSION CONTROL LEGEND

- INLET PROTECTION
- SILT FENCE
- CONSTRUCTION ENTRANCE
- RIP RAP
- NORTH AMERICAN GREEN S150 TURF REINFORCEMENT MAT
- NORTH AMERICAN GREEN C350 TURF MAT
- DITCH CHECK
- TREE PROTECTION
- CONSTRUCTION LIMITS
- FLOW PATH
- STAGING CHART REFERENCE NUMBER



SCALE: 1"=20'



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State Certificate of Authority #ECG-0001787  
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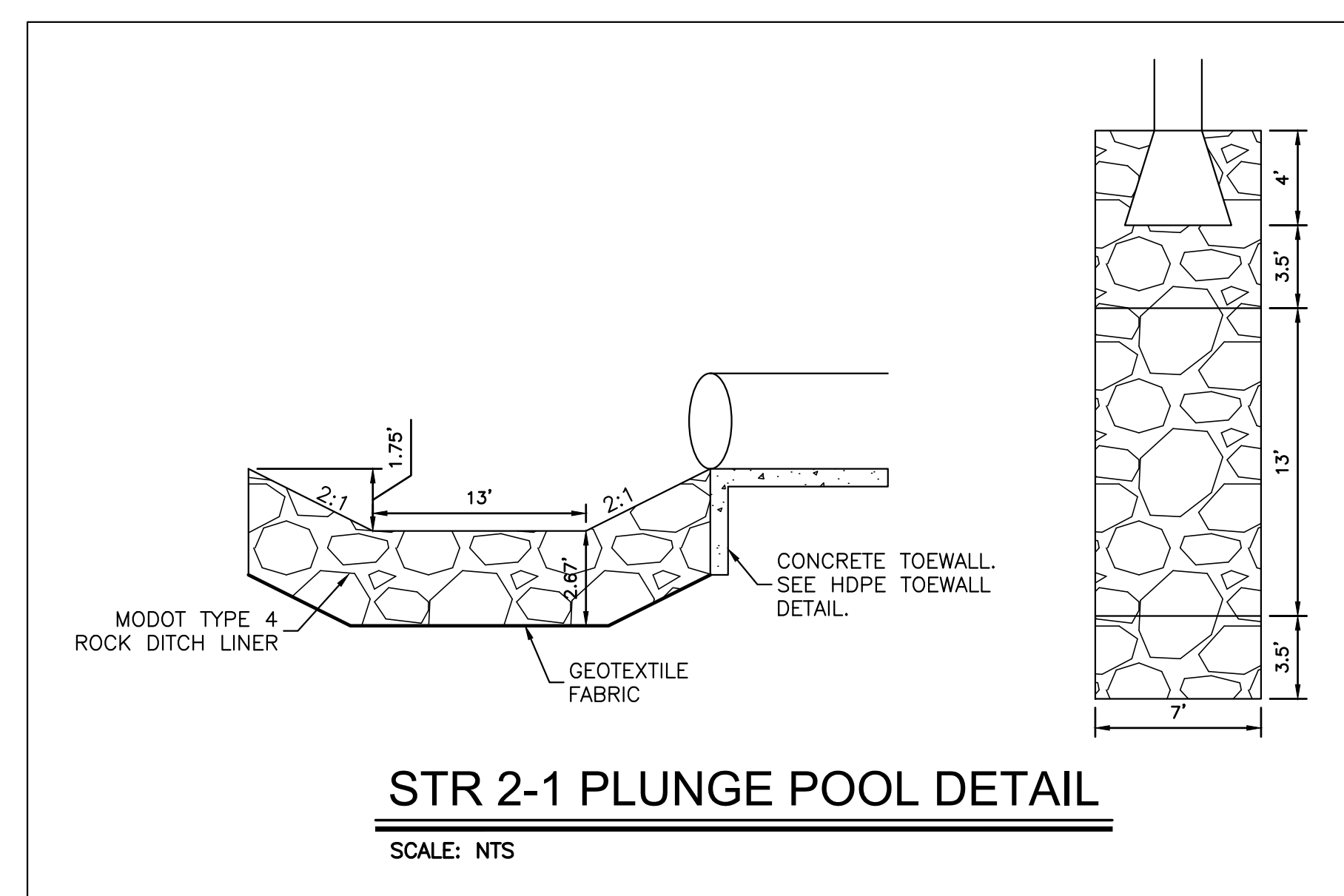


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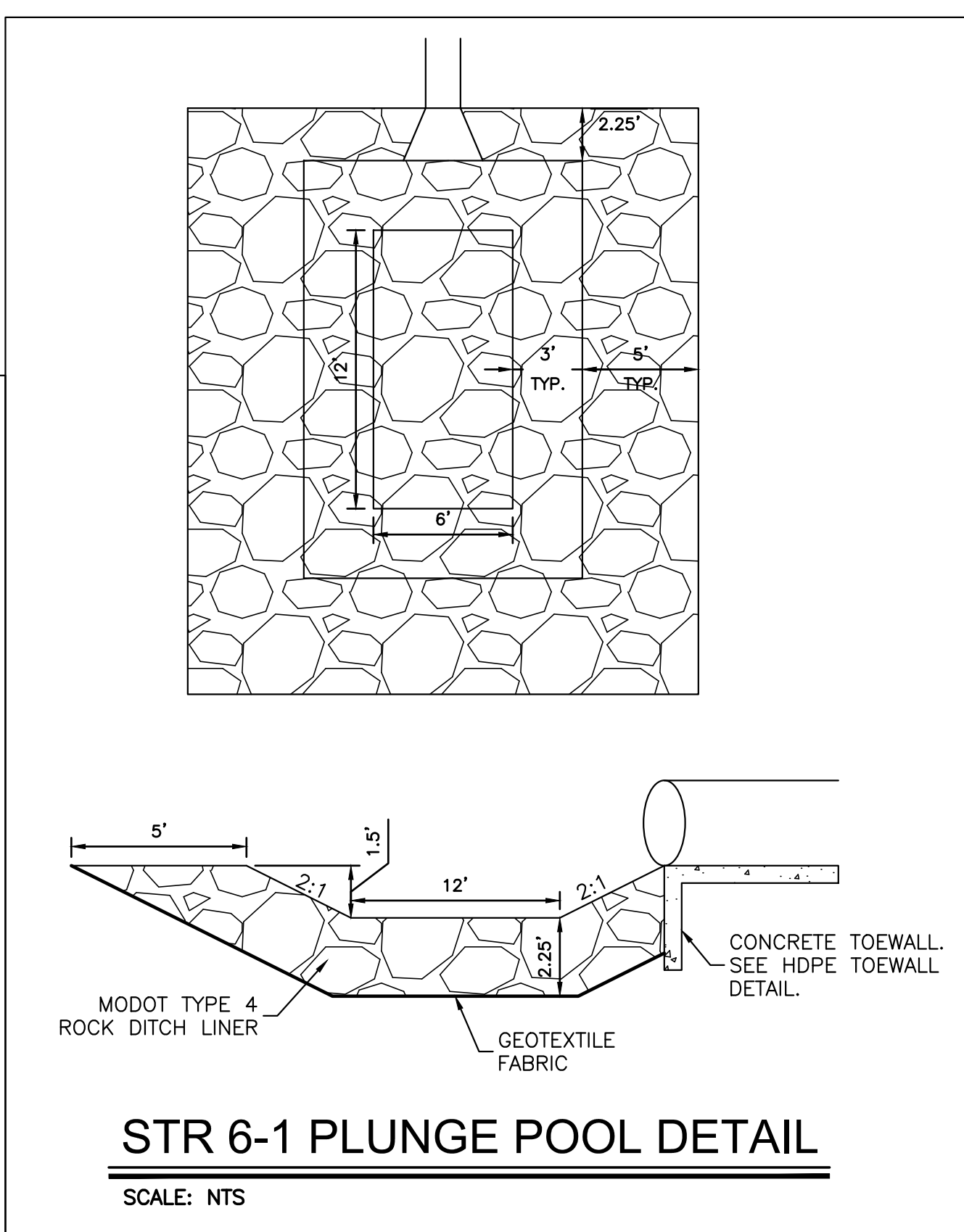
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Missouri State Certificate of Authority  
Architecture # 0000181  
Structure # 200001333  
**MKEC Engineering, Inc.**  
Civil Engineering / Landscape Architecture  
State Certificate of Authority #:  
Engineering: 2001009364  
Landscaping: 2006027139  
Surveying: 2006027138  
11827 W. 112th St. Ste 200  
Overland Park, KS 66210  
913.317.5395 phone  
**Smith & Boucher Engineers**  
Mech/Elect/Plumb Engineer  
State Certificate of Authority #EGC-0001787  
25501 W. Valley Parkway, Ste 200  
Olathe, KS 66061  
913.345.2127 phone  
**Bob D Campbell**  
Structural Engineer  
State Certificate of Authority #000442  
4336 Bellevue Ave  
Kansas City, MO 64111  
816.531.4144 phone

NOTES:  
1. SEE SHEET C113 FOR EROSION CONTROL NOTES.

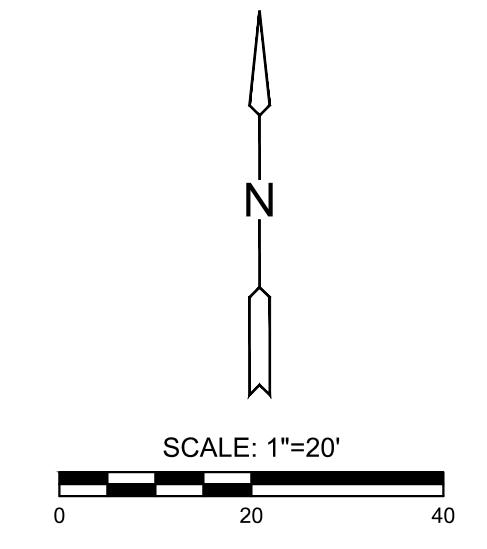
- EROSION CONTROL LEGEND**
- INLET PROTECTION
  - SILT FENCE
  - CONSTRUCTION ENTRANCE
  - RIP RAP
  - NORTH AMERICAN GREEN S150 TURF REINFORCEMENT MAT
  - NORTH AMERICAN GREEN C350 TURF MAT
  - DITCH CHECK
  - TREE PROTECTION
  - CONSTRUCTION LIMITS
  - FLOW PATH
  - STAGING CHART REFERENCE NUMBER



STR 2-1 PLUNGE POOL DETAIL  
SCALE: NTS



STR 6-1 PLUNGE POOL DETAIL  
SCALE: NTS



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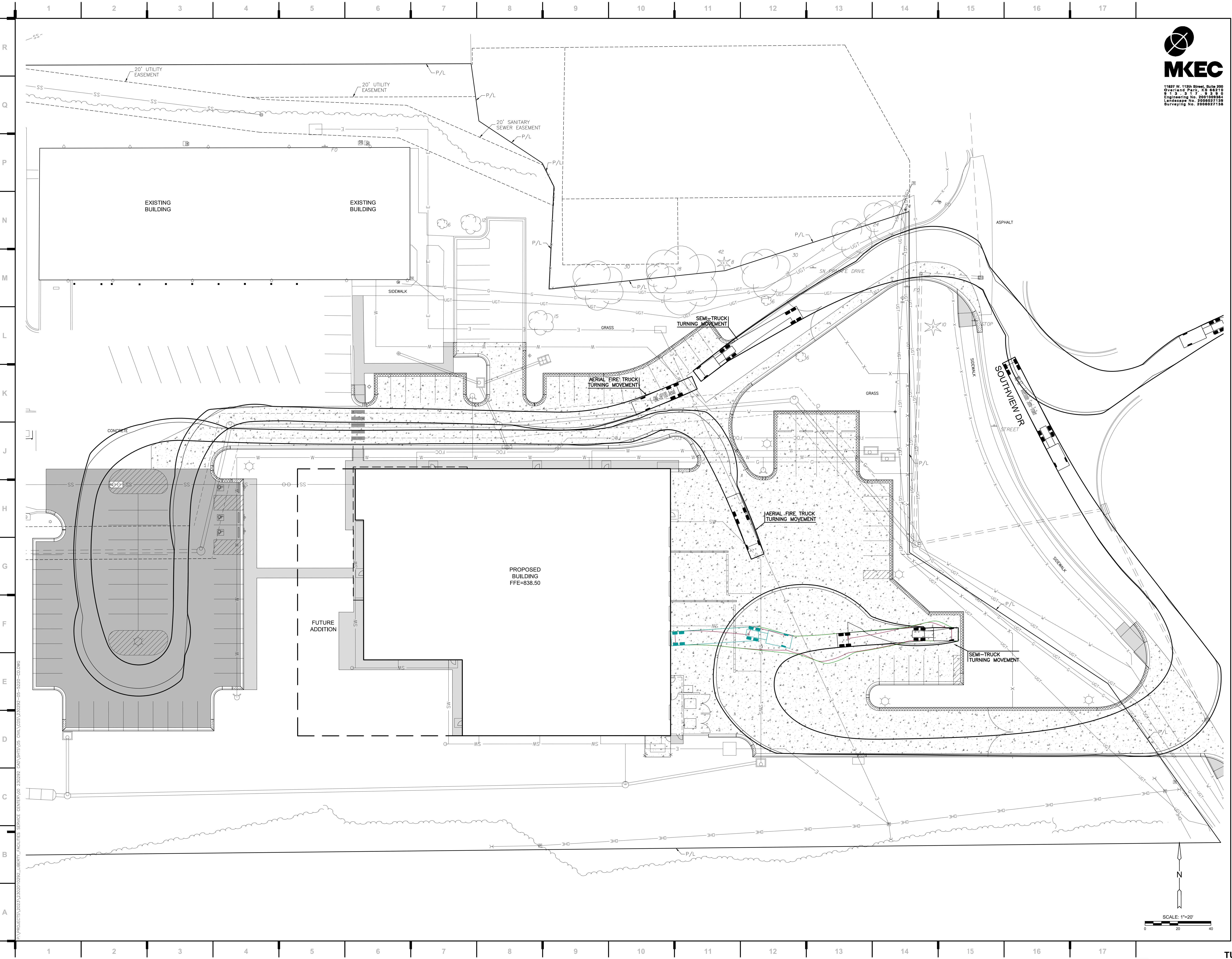
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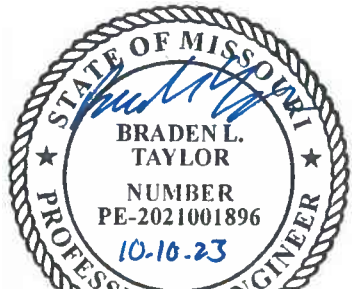
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Missouri State Certificate of Authority  
Architecture # 000181  
Structure # 200601333

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Surveying: 2008027138  
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Overland Park, KS 66210  
913.317.5395 phone  
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Mech/Elect/Plumb Engineer  
State Certificate of Authority #ECC-0001787  
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Olathe, KS 66061  
913.345.2127 phone  
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LISC. #2021001896

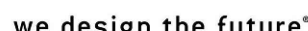
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T 720.949.1689

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Architecture # 0000161  
Structure # 2006031533

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State Certificate of Authority #:  
Engineering: 2001009364  
Landscape: 2006027139  
Surveying: 2006027138  
11827 W. 112th St, Ste 200  
Overland Park, KS 66210  
913.317.9300 phone

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Mech/Elect/Plumb Engineer  
State Certificate of Authority #EGC-0001787  
25501 W. Valley Parkway, Ste 200  
Olathe, KS 66061  
913.345.2127 phone

**Bob D Campbell**  
Structural Engineer  
State Certificate of Authority #000442  
4338 Belleview Ave  
Kansas City, MO 64111  
816.531.4144 phone

Liberty Public Schools

**CONSTRUCTION  
DOCUMENTS**

1. Inspection by the City of Liberty Building Inspection Department is required.
2. No street cuts are to be done without prior notification and issuance of permits.
3. All excavations shall be backfilled and compacted to original ground level.
4. Meter wells shall not be located in driveways, walkways or cast-in concrete without prior approval. Traffic model grates and lids shall be installed when in the travel lanes.
5. All meter wells shall be set plumb, backfilled and compacted with earth.
6. Each meter well shall be centered directly over the meter which it serves.
7. The meter well cover shall be flush with the sidewalk.
8. In cases where the sidewalk is located (or is to be located) adjacent to the curb, the centerline of the meter well shall be a minimum of 2' 0" from the back edge of the sidewalk.
9. The City of Liberty Utilities Maintenance Department  
(439-4763) requires 24 hours notice for scheduling of water tap.
10. Fire 1/2" 3' service line on customer's side of meter coming out of meter pit must be Type "K" copper.

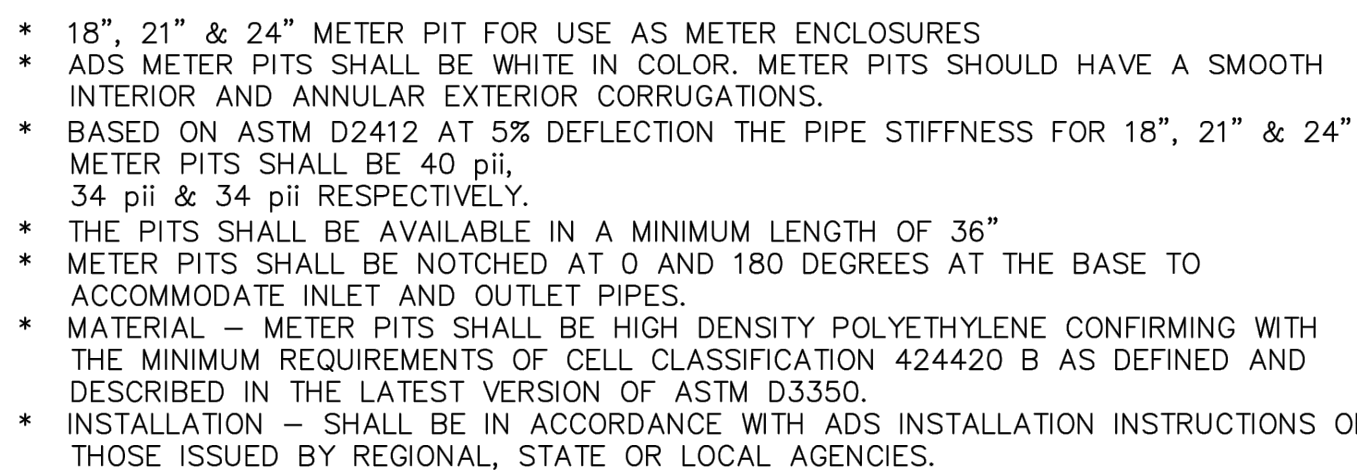


REV 2017



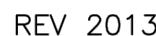
## WATER METER WELL INSTALLATION DETAIL

D50-10



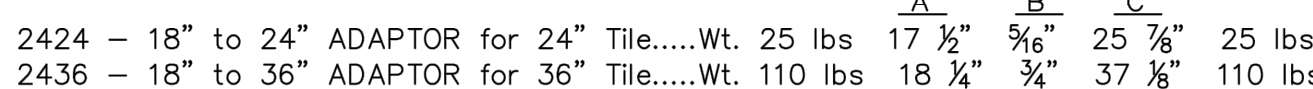
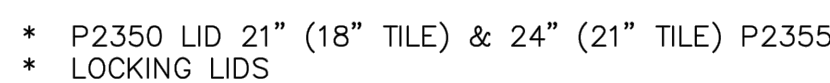
NOMINAL DIMENSIONS  
 - INNER DIAMETER (mm) 18", 21" & 24"  
 - OUTER DIAMETER (mm) 21.5", 25" & 28.4"

- \* P2350 LID 21" (18" TILE) & 24" (21" TILE) P2355  
\* LOCKING LIDS



## WATER METER WELL INSTALLATION DETAIL

D50-10A

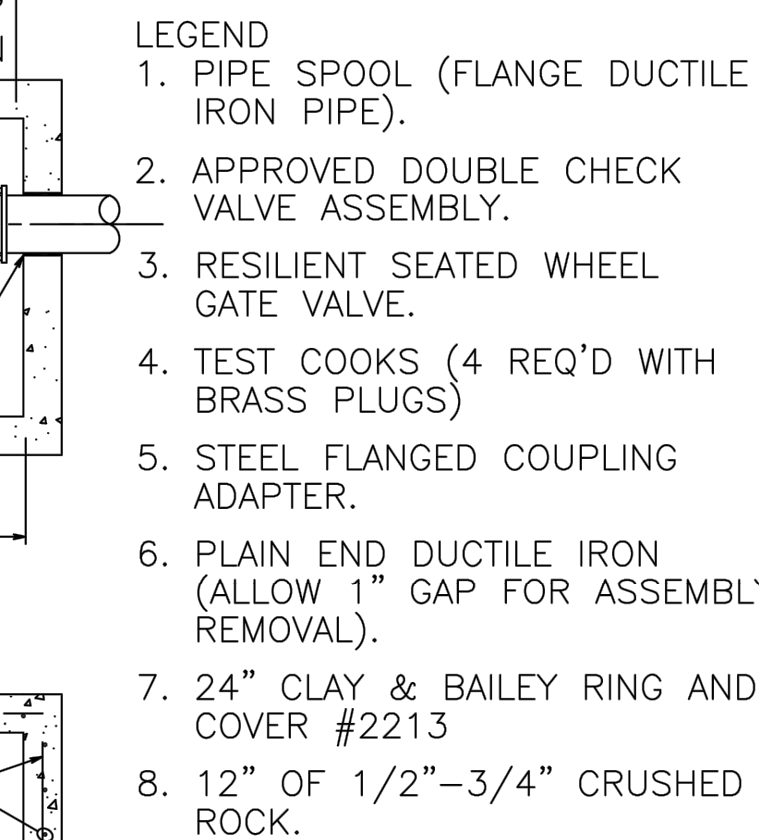


REV 2013



## WATER METER WELL INSTALLATION DETAIL

D50-10B



\*\*\* = 8'-0" (3", 4", & 6" WATERLINE)  
\*\*\* = 10'-0" (8" & 10" WATERLINE)

- NOTES:

1. ALL BACKFLOW PREVENTATION ASSEMBLIES SHALL BE APPROVED BY THE CITY OF LIBERTY, BUILDING DEPARTMENT.
2. ALL BACKFLOW PREVENTATION ASSEMBLIES SHALL BE INSTALLED HORIZONTALLY
3. ALL FERROUS-BODIED BACKFLOW ASSEMBLIES SHALL BE FITTED WITH REPLACEABLE VALVE SEATS.

REV 2009



# BACKFLOW PREVENTATION ASSY AND VAULT

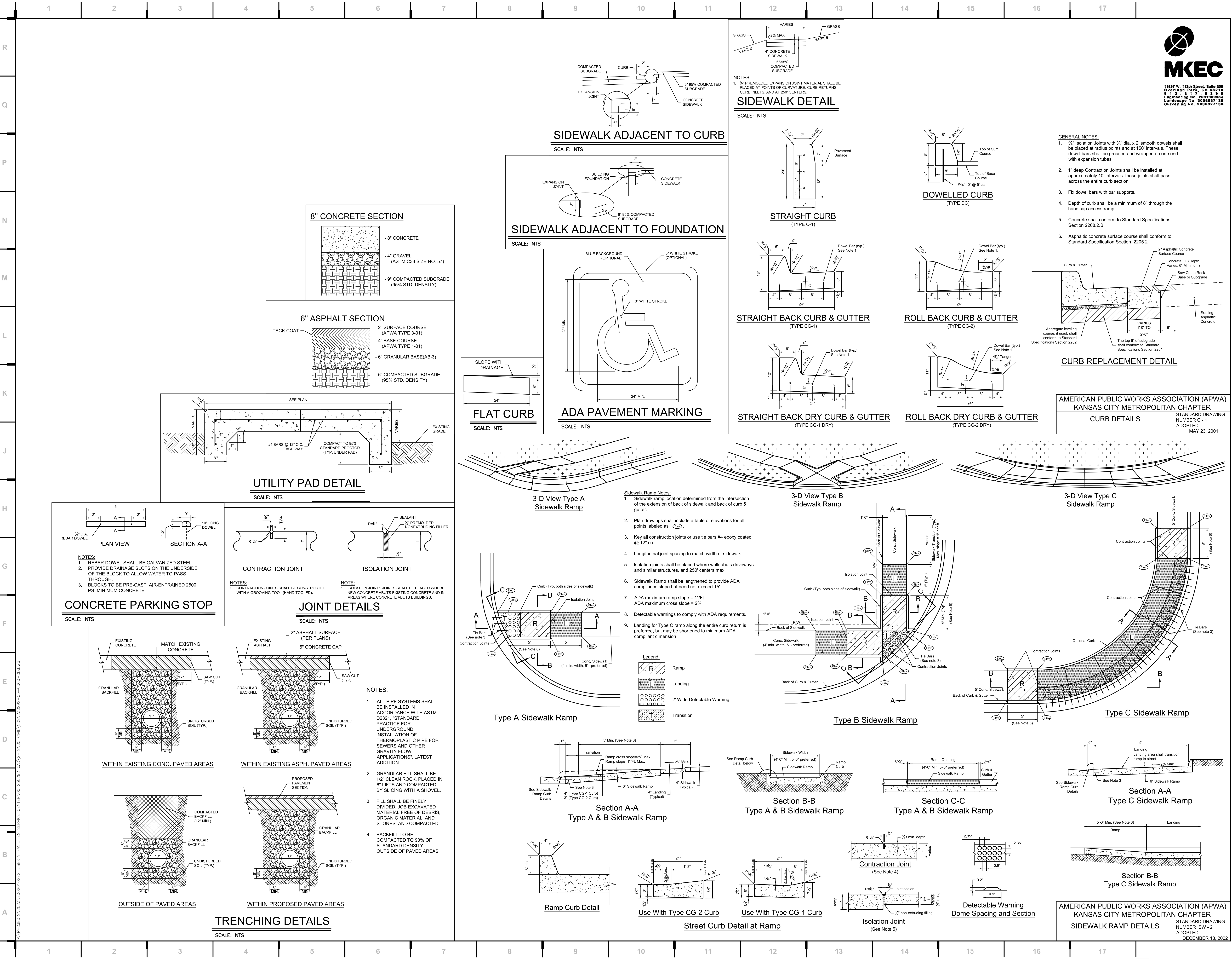
D50-9



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## UTILITY DETAILS 2





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Architecture # 0000181  
Structure # 200001333

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Civil Engineering / Landscape Architecture  
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Engineering: 2001009364  
Landscaping: 2006027139  
Surveying: 2006027138  
11827 W. 112th St. Ste 200  
Overland Park, KS 66210  
913.317.5395 phone

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Olathe, KS 66061  
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816.531.4144 phone

AMERICAN PUBLIC WORKS ASSOCIATION (APWA)  
KANSAS CITY METROPOLITAN CHAPTER

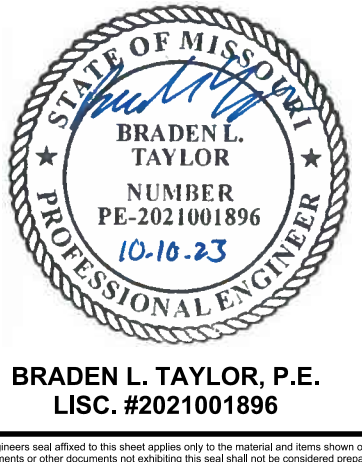
CURB DETAILS

STANDARD DRAWING  
NUMBER C - 1  
ADOPTED:  
MAY 23, 2001

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Missouri State Certificate of Authority  
Architecture # 0000181  
Structure # 2000031333

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State Certificate of Authority #:  
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Landscaping: 2006027139  
Surveying: 2006027138  
11827 W. 112th St. Ste 200  
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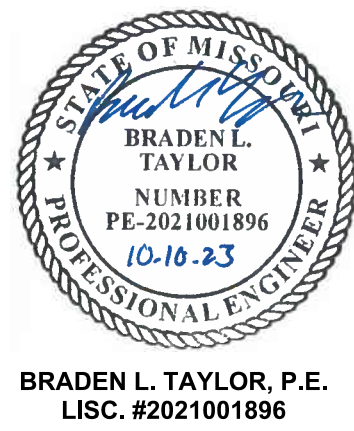
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Mech/Elect/Plumb Engineer  
State Certificate of Authority #ECC-0001787  
25501 W. Valley Parkway, Ste 200  
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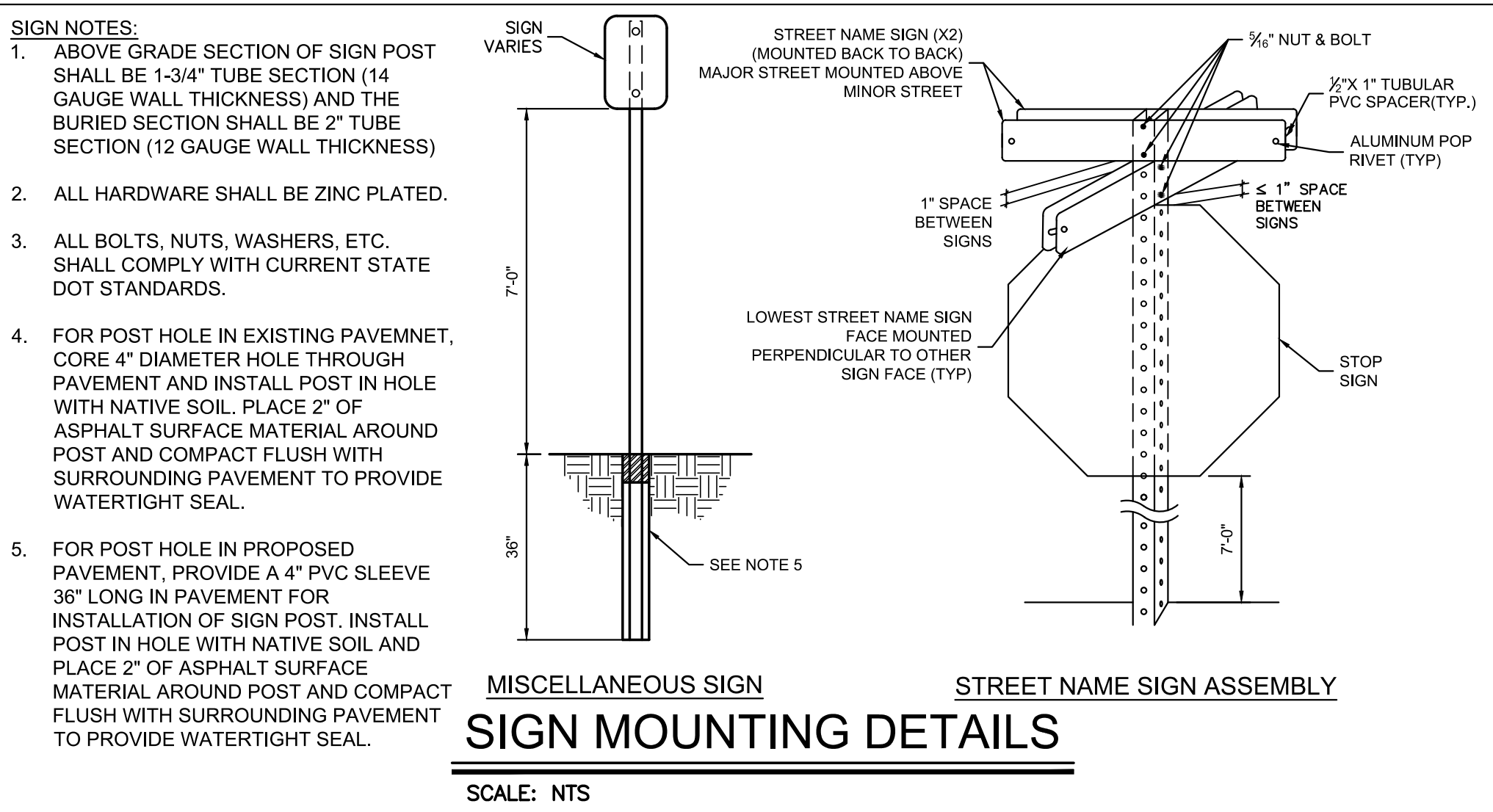
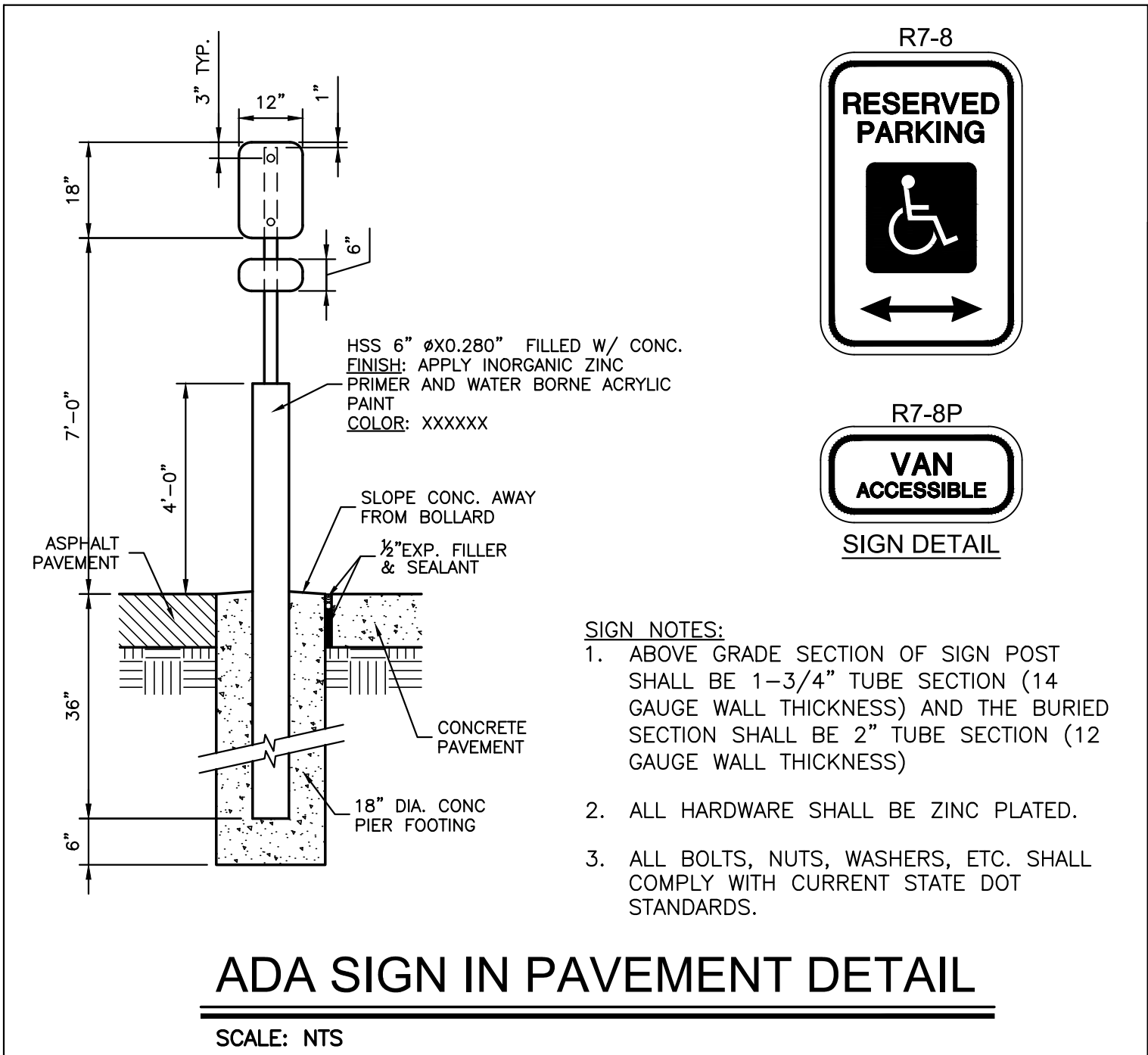
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Structure # 200001333

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State Certificate of Authority #: 2001009364  
Surveying: 2006027138  
Landscaping: 2006027139  
11827 W. 112th St. Ste 200  
Overland Park, KS 66210  
913.317.5595 phone

**Smith & Boucher Engineers**  
Mech/Elect/Plumb Engineer  
State Certificate of Authority #ECG-0001787  
25501 W. Valley Parkway, Ste 200  
Olathe, KS 66061  
913.345.2127 phone

**Bob D Campbell**  
Structural Engineer  
State Certificate of Authority #000442  
4338 Bellview Ave  
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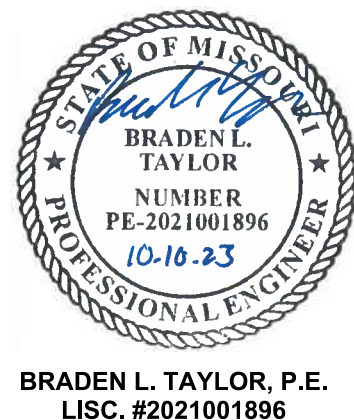
CONSTRUCTION DOCUMENTS

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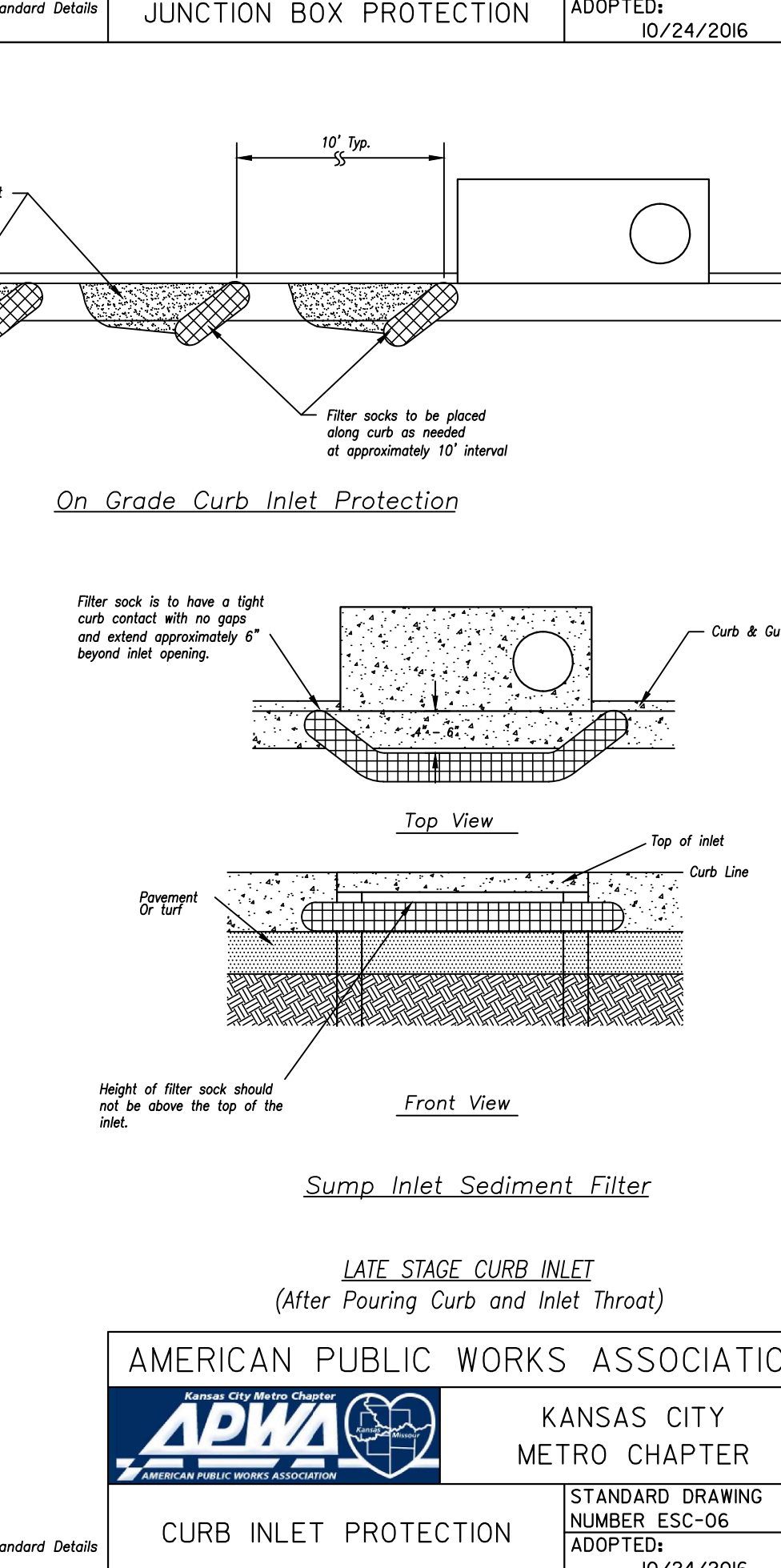
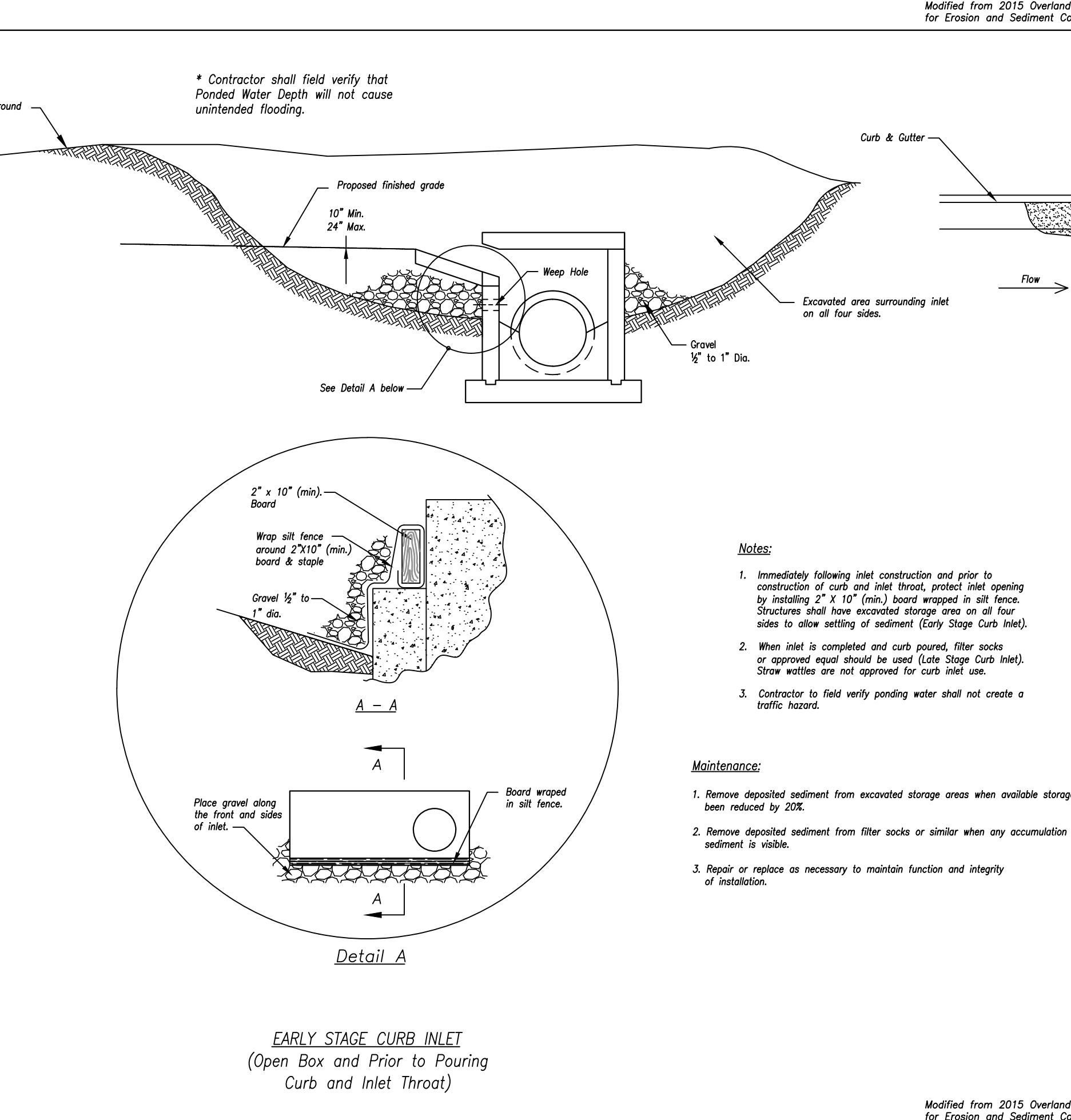
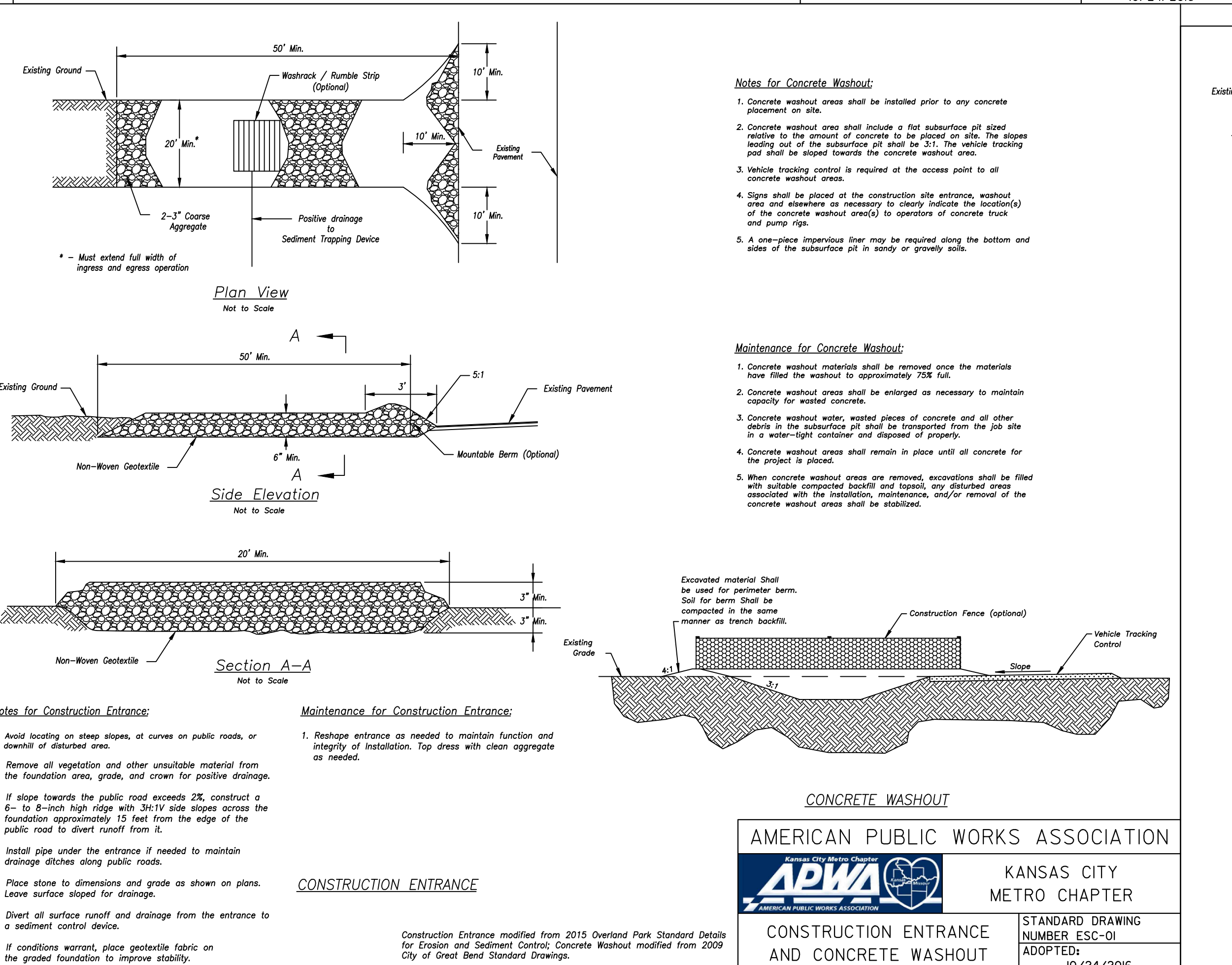
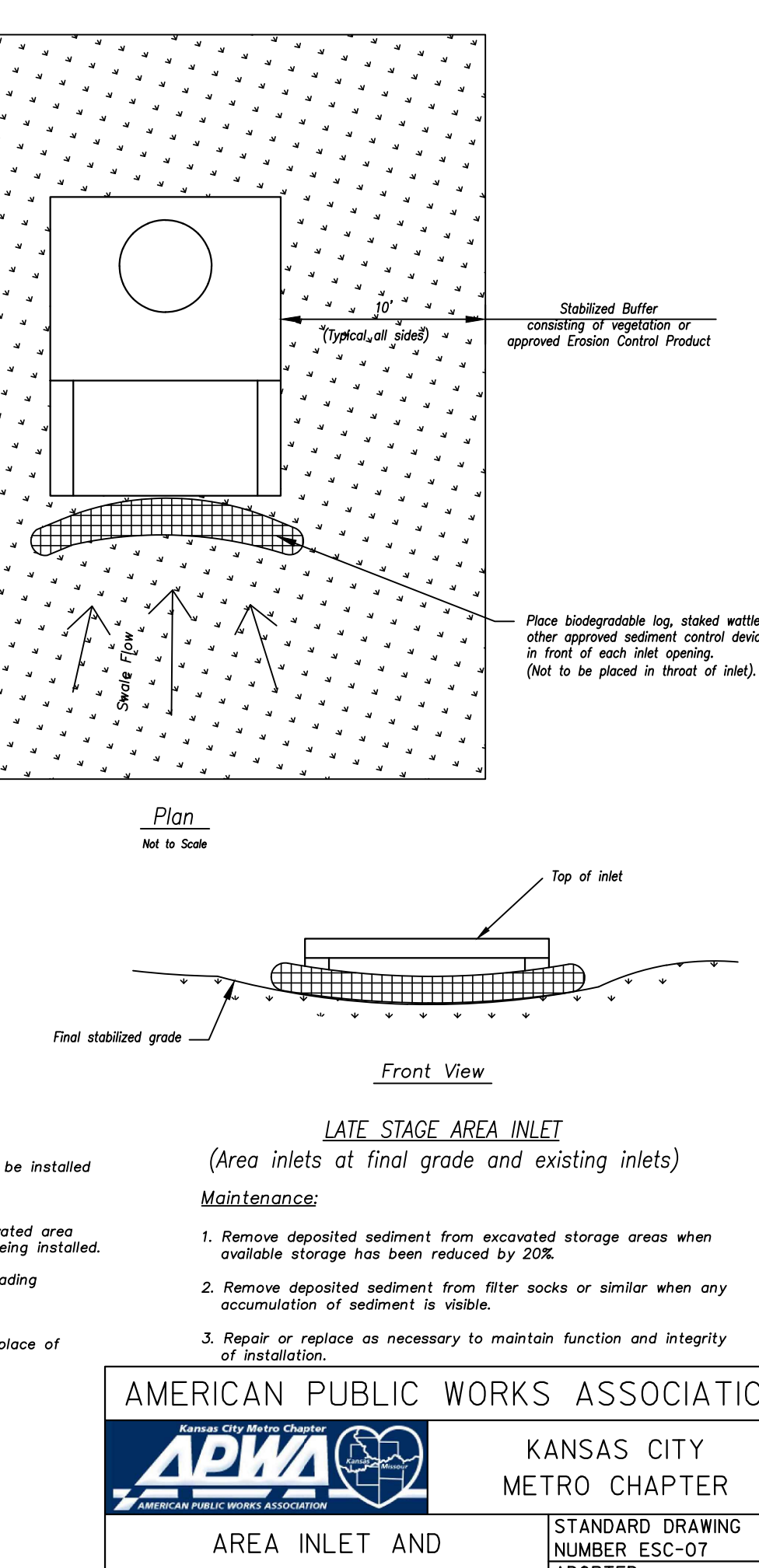
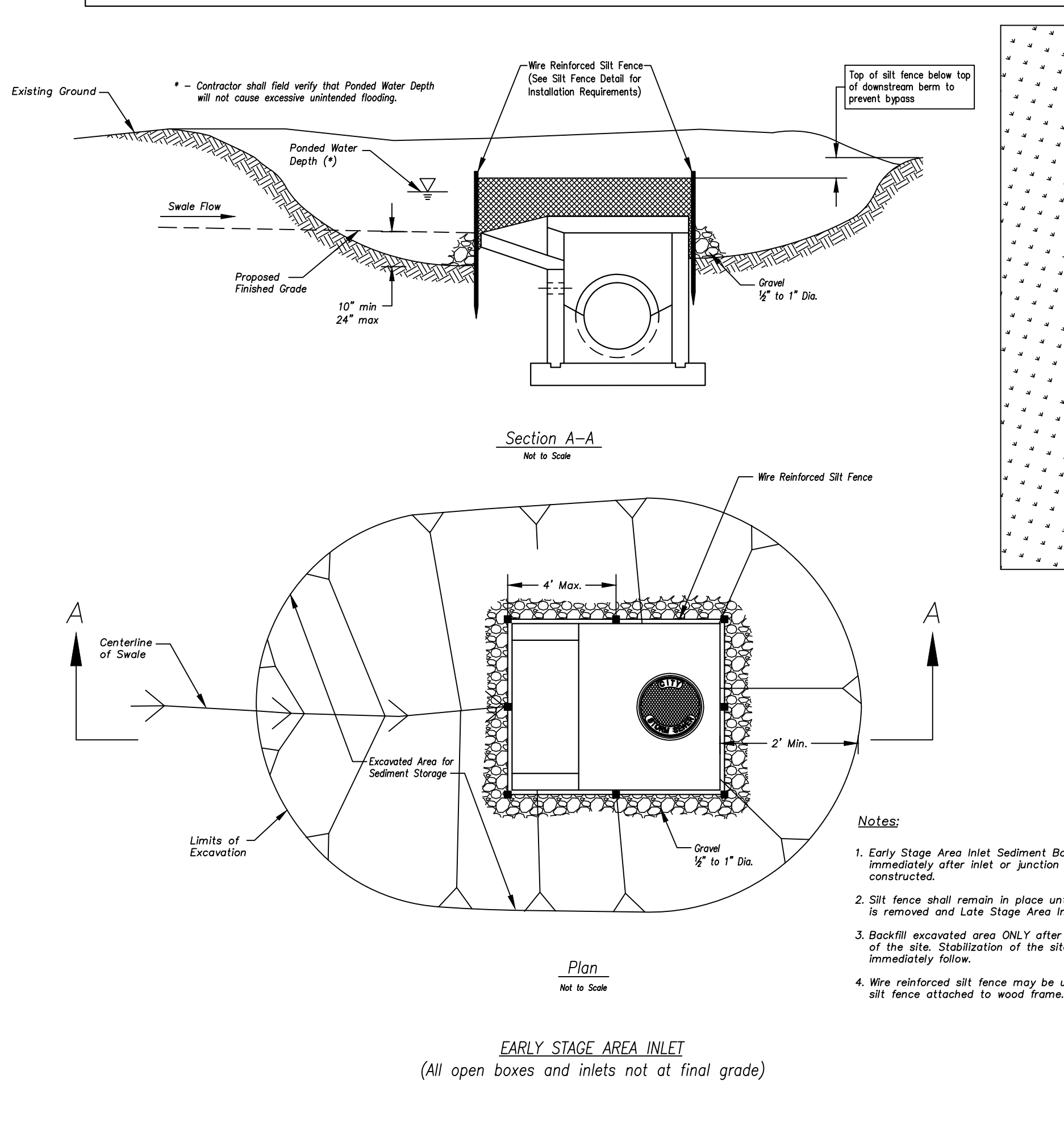
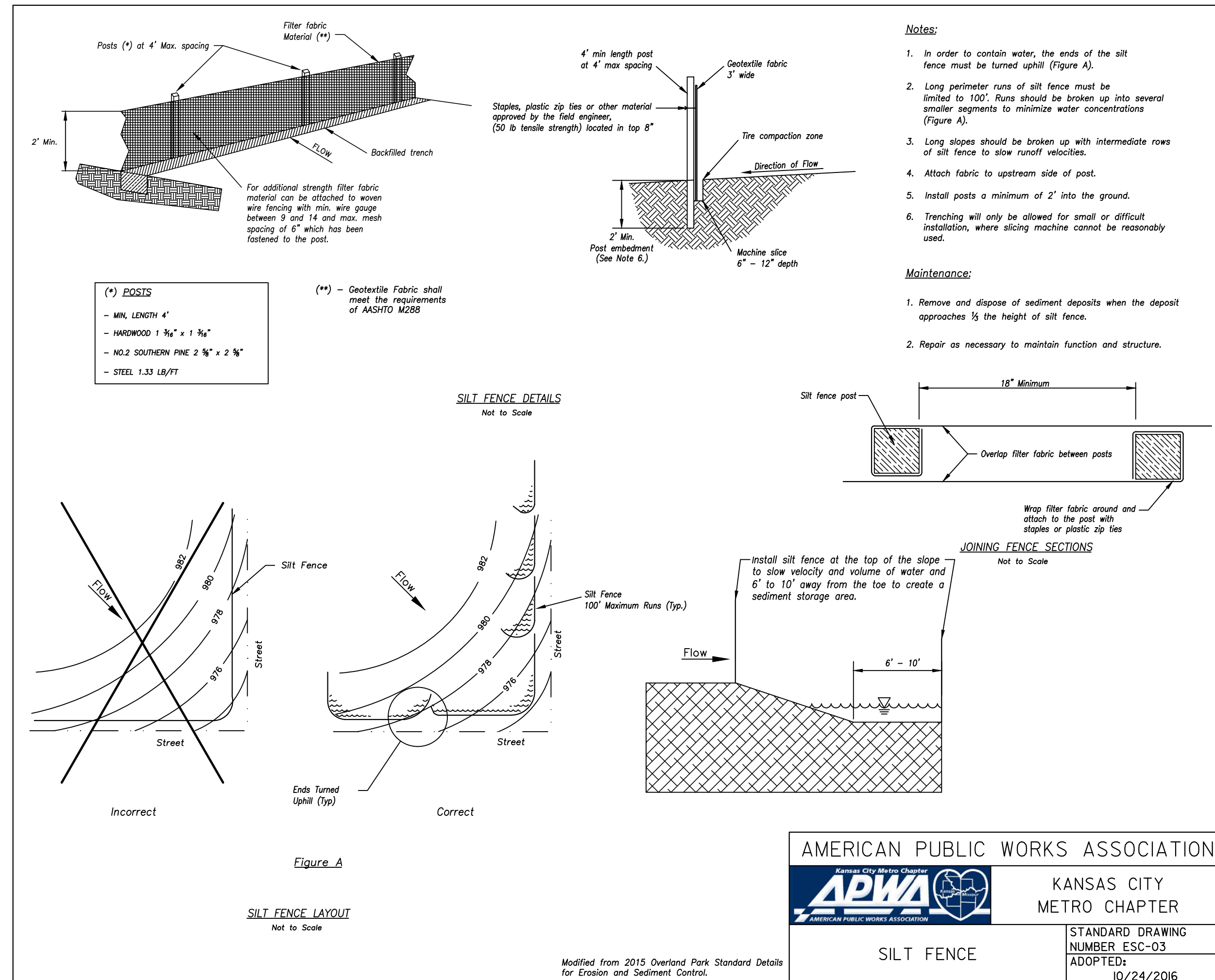
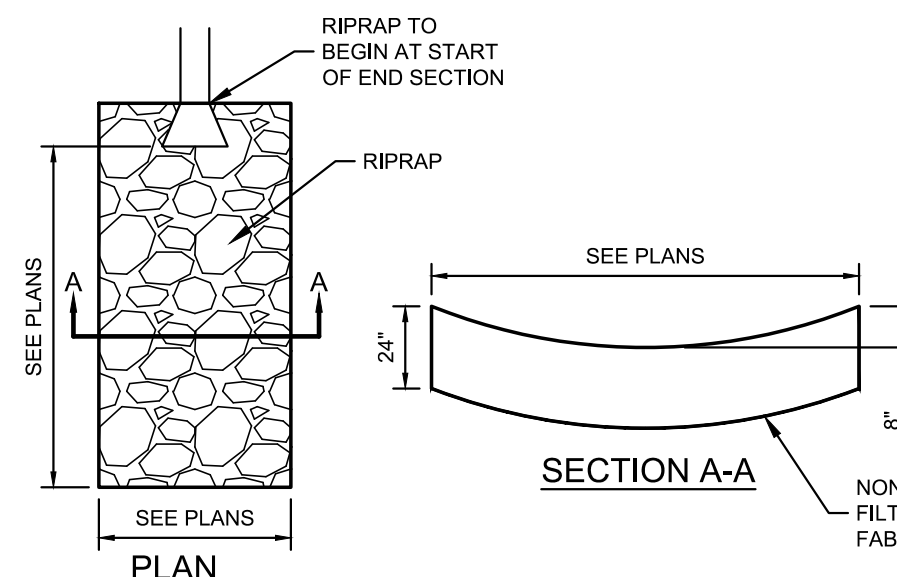
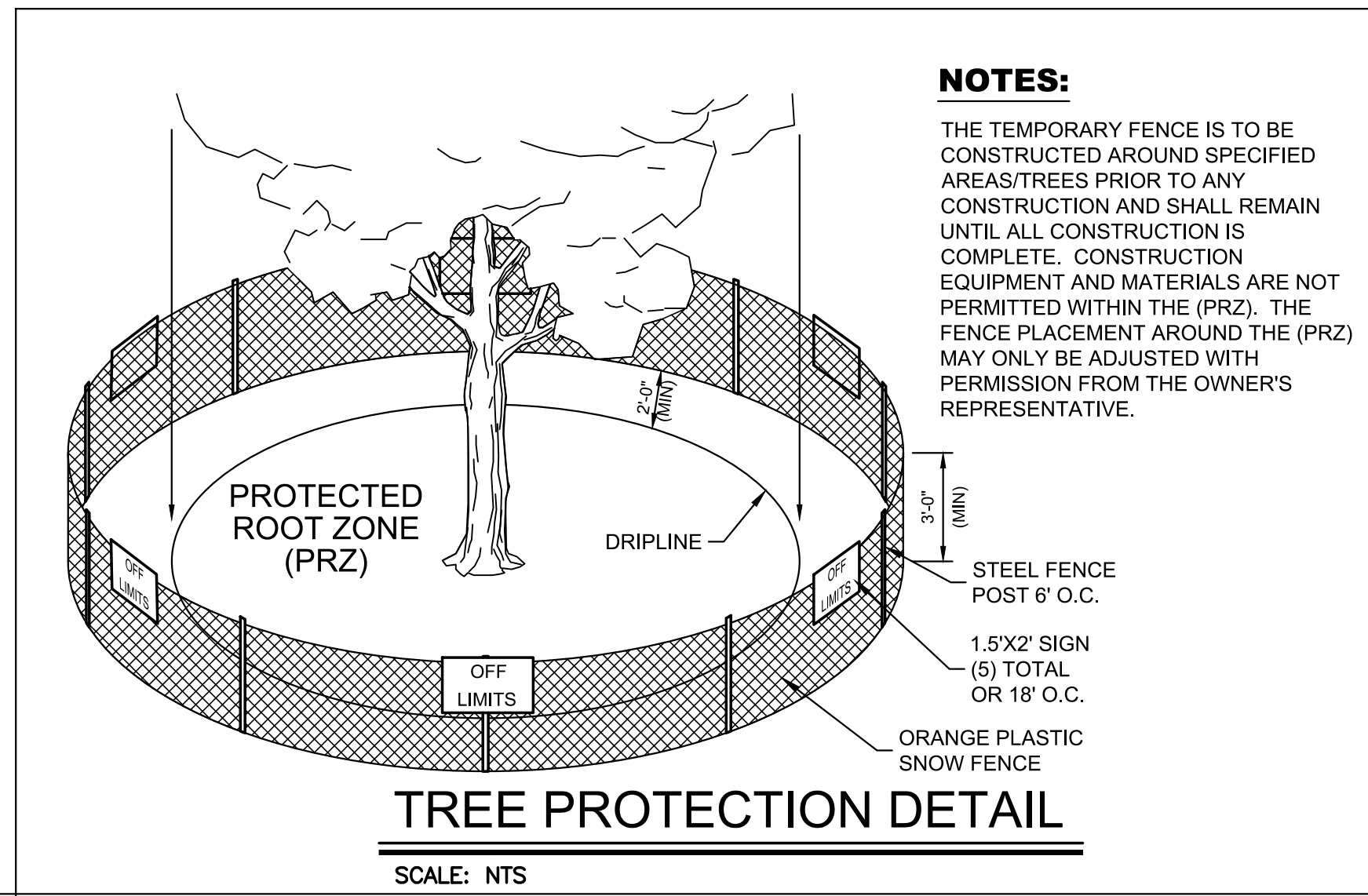
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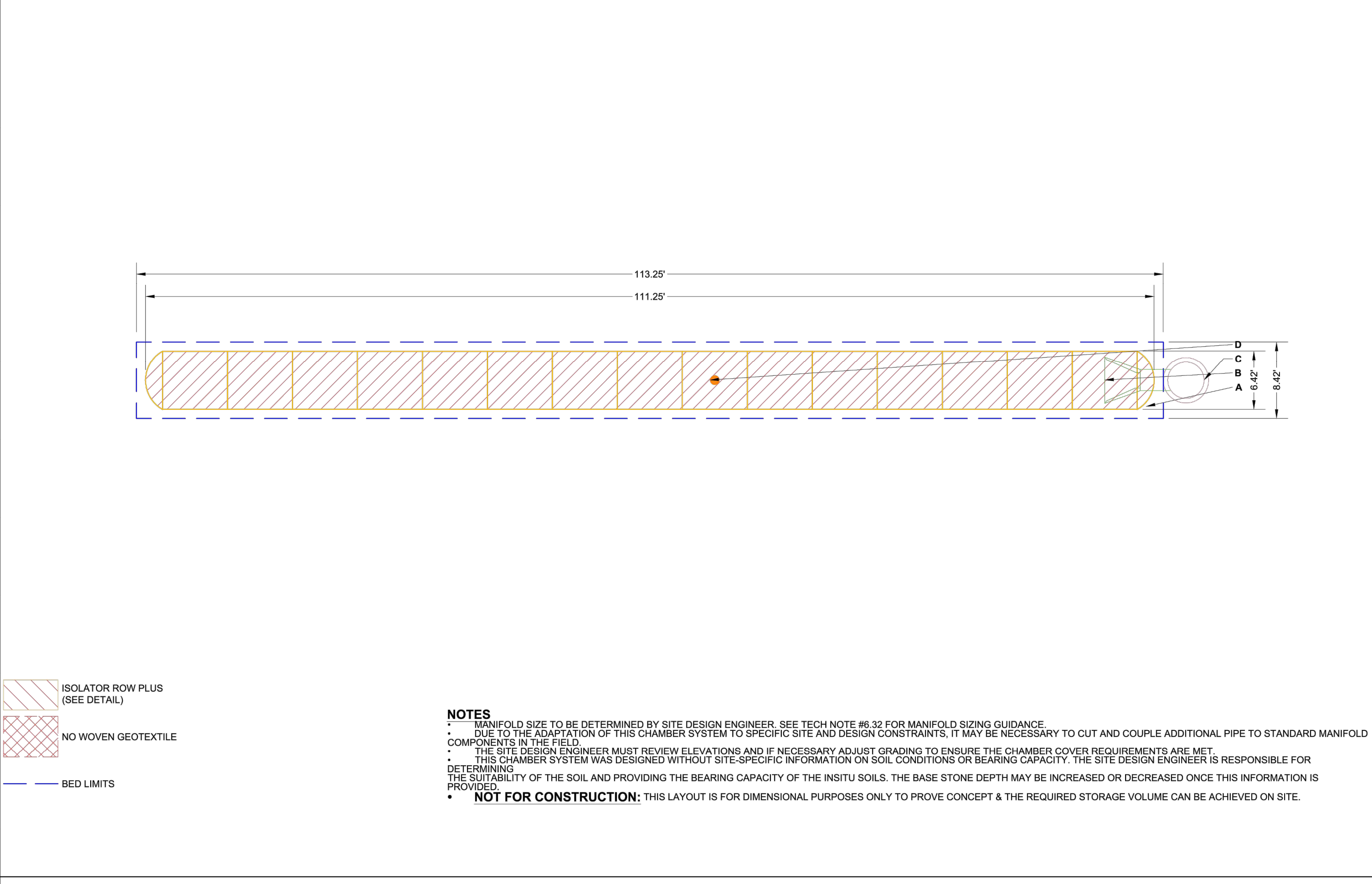
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BRADEN L. TAYLOR  
2021001896

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C205

PROPOSED LAYOUT		PROPOSED ELEVATIONS:	
15	STORMTECH MC-3500 CHAMBERS	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT UNPAVED)	819.45
2	STORMTECH MC-3500 END CAPS	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)	813.45
7	STONE ABOVE (D)	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)	812.25
17	STONE BELOW (D)	MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT)	812.25
40	STONE VOID	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)	812.25
3104	INSTALLED SYSTEM VOLUME (C) (PERIMETER STONE INCLUDED) (COVER STONE INCLUDED)	TOP OF STONE TOP OF MC-3500 CHAMBER 24" ISOLATOR ROW PLUS INVERT: BOTTOM OF MC-3500 CHAMBER BOTTOM OF STONE	817.51 817.49 807.70 805.35
883	SYSTEM AREA (SQ FT)		
243.3	SYSTEM PERIMETER (D)		



**NOTES**

- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #8.32 FOR MANIFOLD SIZING GUIDANCE.
- DO NOT ADJUST THE ADJUSTMENT OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS. IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
- THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.
- NOT FOR CONSTRUCTION:** THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

**INSPECTION & MAINTENANCE**

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT

A. INSPECTION PORTS (IF PRESENT)

A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN

A.2. REMOVE AND CLEAN FLEXIDRAIN FILTER IF INSTALLED

A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG

A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)

A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

B. ALL ISOLATOR PLUS ROWS

B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS

B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE

B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS

A. A FIXED CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED

B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN

C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

**NOTES**

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACUUMING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

**3 MC-3500 ISOLATOR ROW PLUS DETAIL**

**MC-3500 6" (150 mm) INSPECTION PORT DETAIL**

**MC-SERIES END CAP INSERTION DETAIL**

SPACE INTENTIONALLY LEFT BLANK

SPACE INTENTIONALLY LEFT BLANK

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS			
MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBGRADE MAY BE PART OF THE 'D' LAYER.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE (IF LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBGRADE MAY BE A PART OF THE 'C' LAYER.	AASHTO M145 <sup>1</sup> A-1, A-2, A-3 OR AASHTO M43 <sup>1</sup> 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 90% PROCTOR DENSITY FOR WELL GRADED MATERIAL, AND 10% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	EMBODIMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (A LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 <sup>1</sup> 3, 4	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 <sup>1</sup> 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. <sup>1,2</sup>

PLEASE NOTE:

- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
- STORMTECH COMPACTION REQUIREMENTS ARE MET FOR A LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (200 mm) MAX LIFTS USING TWO FULL COVERSAGES WITH A VIBRATORY COMPACTOR.
- WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBGRADE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

**MC-3500 CROSS SECTION DETAIL**

**NOTES:**

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45/76 DESIGNATION SS.
- MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
  - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
  - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
  - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 LBS/FT<sup>2</sup>. THE ASO IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

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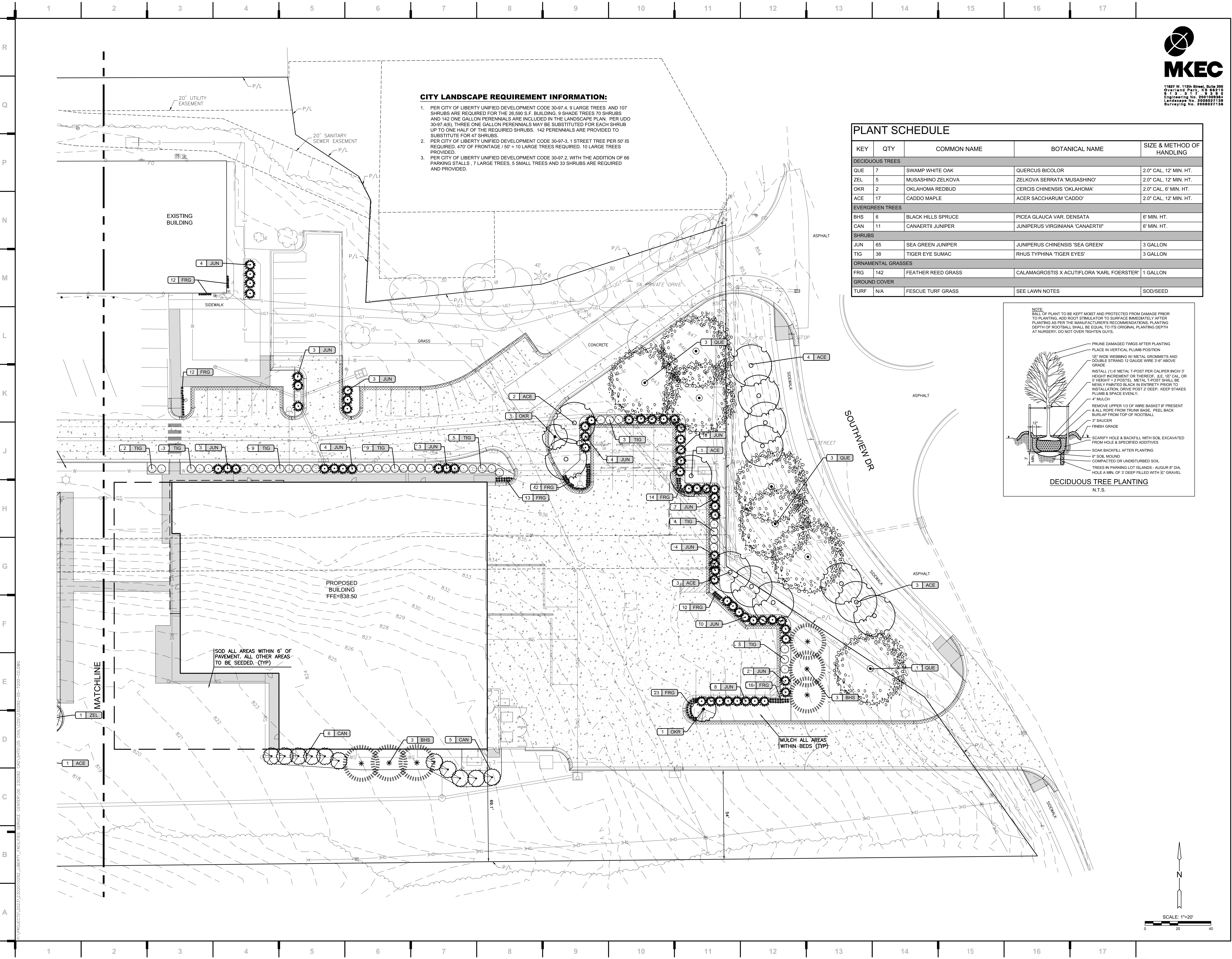
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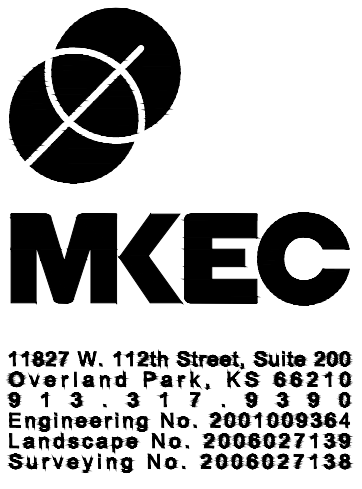
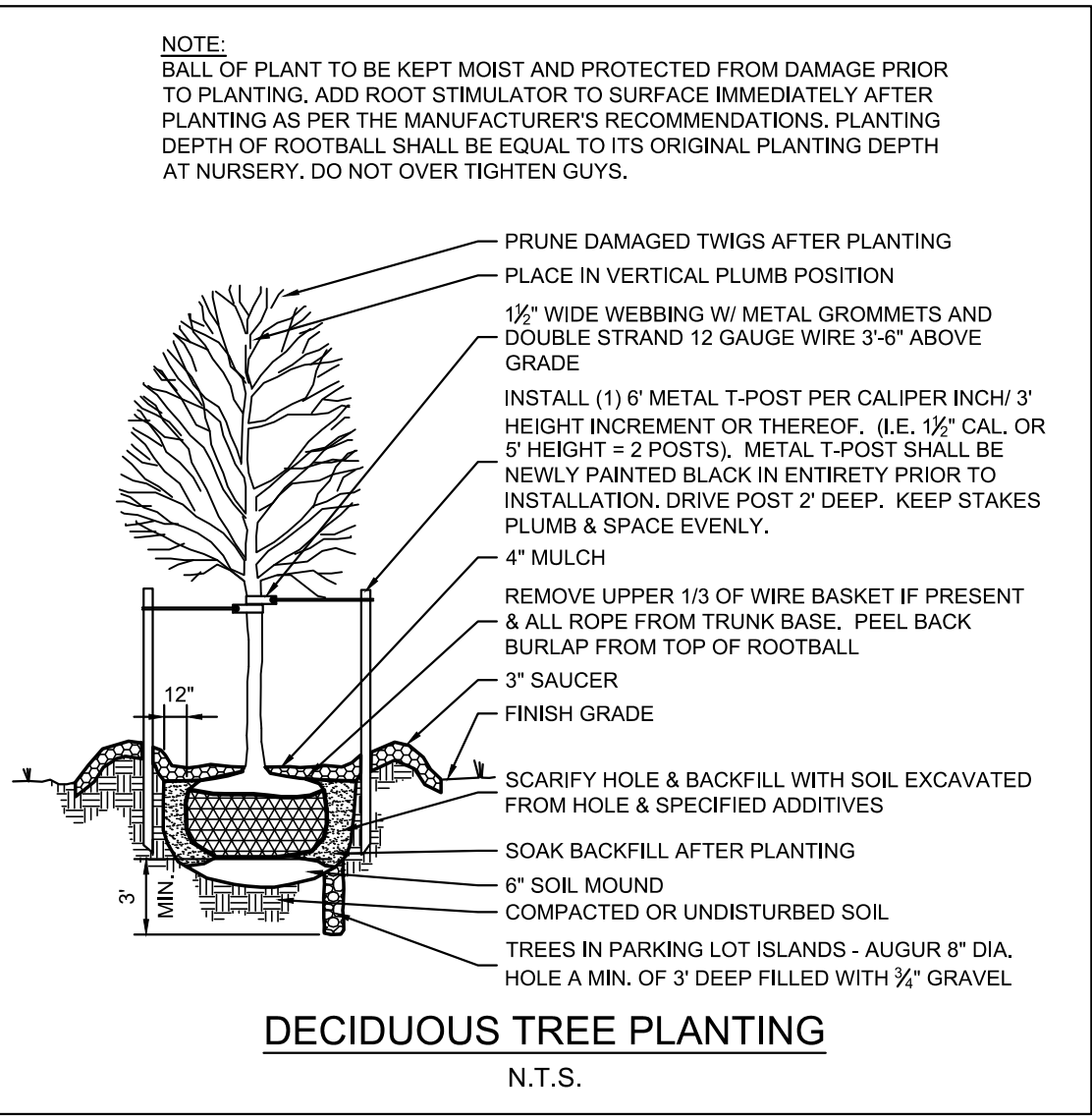


CITY LANDSCAPE REQUIREMENT INFORMATION:

- 1. PER CITY OF LIBERTY UNIFIED DEVELOPMENT CODE 30-97.4, 9 LARGE TREES AND 107 SHRUBS ARE REQUIRED FOR THE 26,590 S.F. BUILDING. 9 SHADE TREES 70 SHRUBS AND 142 ONE GALLON PERENNIALS ARE INCLUDED IN THE LANDSCAPE PLAN. PER UDO 30-97.4(6), THREE ONE GALLON PERENNIALS MAY BE SUBSTITUTED FOR EACH SHRUB UP TO ONE HALF OF THE REQUIRED SHRUBS. 142 PERENNIALS ARE PROVIDED TO SUBSTITUTE FOR 47 SHRUBS.
- 2. PER CITY OF LIBERTY UNIFIED DEVELOPMENT CODE 30-97-3, 1 STREET TREE PER 50' IS REQUIRED. 470' OF FRONTAGE / 50' = 10 LARGE TREES REQUIRED. 10 LARGE TREES PROVIDED.
- 3. PER CITY OF LIBERTY UNIFIED DEVELOPMENT CODE 30-97.2, WITH THE ADDITION OF 66 PARKING STALLS, 7 LARGE TREES, 5 SMALL TREES AND 33 SHRUBS ARE REQUIRED AND PROVIDED.

PLANT SCHEDULE

KEY	QTY	COMMON NAME	BOTANICAL NAME	SIZE & METHOD OF HANDLING
DECIDUOUS TREES				
QUE	7	SWAMP WHITE OAK	QUERCUS BICOLOR	2.0" CAL, 12' MIN. HT.
ZEL	5	MUSASHINO ZELKOVA	ZELKOVA SERRATA 'MUSASHINO'	2.0" CAL, 12' MIN. HT.
OKR	2	OKLAHOMA REDBUD	CERCIS CHINENSIS 'OKLAHOMA'	2.0" CAL, 6' MIN. HT.
ACE	17	CADDO MAPLE	ACER SACCHARUM 'CADDO'	2.0" CAL, 12' MIN. HT.
EVERGREEN TREES				
BHS	6	BLACK HILLS SPRUCE	PICEA GLAUCA VAR. DENSATA	6' MIN. HT.
CAN	11	CANAERTII JUNIPER	JUNIPERUS VIRGINIANA 'CANAERTII'	6' MIN. HT.
SHRUBS				
JUN	65	SEA GREEN JUNIPER	JUNIPERUS CHINENSIS 'SEA GREEN'	3 GALLON
TIG	38	TIGER EYE SUMAC	RHUS TYPHINA 'TIGER EYES'	3 GALLON
ORNAMENTAL GRASSES				
FRG	142	FEATHER REED GRASS	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	1 GALLON
GROUND COVER				
TURF	N/A	FESCUE TURF GRASS	SEE LAWN NOTES	SOD/SEED



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State Certificate of Authority #0001787  
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REVISIONS:

#	Description	Date



BRIAN J. HOCHSTEIN, L.A.  
LISC. #2010013958

JOB NO: 23021.00  
DRAWN BY: BJH  
CHECKED BY: BJH  
DATE: 10.10.2023

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1. THE LANDSCAPE CONTRACTOR SHOULD READ ALL LANDSCAPE PLANS, SPECIFICATIONS AND VISIT THE PROJECT SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO BIDDING THIS PROJECT. IF A DISCREPANCY BETWEEN PLANT QUANTITIES SHOWN ON PLANS AND WITHIN THE PLANT SCHEDULE EXIST THE PLANS QUANTITIES SHALL BE USED. PLANT SCHEDULE QUANTITIES FOR INFORMATION ONLY.
2. ANY AND ALL QUESTIONS CONCERNING THE LANDSCAPE PLANS AND SPECIFICATIONS SHALL BE DIRECTED TO THE OWNER AND / OR MKEC LANDSCAPE ARCHITECT AT 913-317-9390.
3. THE LANDSCAPE CONTRACTOR IS TO VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES (INCLUDING THOSE INDICATED ON THE PLAN) PRIOR TO INSTALLATION OF PLANT MATERIAL.
4. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING, MULCHING, AND OTHER REQUIREMENTS OF PLANT MATERIALS WHILE THEY ARE TEMPORARILY STORED ON OR OFF SITE.
5. THE LANDSCAPE CONTRACTOR SHALL COORDINATE LAYOUT OF PLANTING BEDS, PLANT MASSING, STAKED LOCATION OF TREES AND INSTALLATION OF PLANT MATERIAL WITH OWNER PRIOR TO COMMENCEMENT OF WORK.
6. ALL PLANT MATERIAL (EXCEPT SHADE TREES) IS DELINEATED AT MATURE SIZE OF PLANT MATERIAL. SHADE TREES ARE DELINEATED AT 85% OF ACTUAL MATURE SIZE.
7. ALL PLANT MATERIALS MEET THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-1996) PER THE AMERICAN ASSOCIATION OF NURSERYMEN.
8. PER OWNER'S DIRECTION, THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO INSPECT ALL PLANT MATERIAL AT THE NURSERY, PRIOR TO DIGGING.
9. AREAS DESIGNATED AREAS ARE TO RECEIVE SOD AND SEED AS FOLLOWS:  
 SOD & SEED: FESCUE TURF. SUBMIT SPECIALLY TO LANDSCAPE ARCHITECT FOR REVIEW.  
 FERTILIZER: HORTICULTURAL SOIL TESTED TO OBTAIN RECOMMENDED SOIL AMENDMENTS FOR THE  
 GRASSER LISTED. REPORT RECOMMENDATIONS TO THE LANDSCAPE ARCHITECT FOR  
 APPROVAL BEFORE ANY APPLICATION OF FERTILIZER IS MADE.

3. INSTALL FESCUE TURF SOD OR SEED PER NOTES BELOW. A 6' SOD STRIP SHALL BE INSTALLED ADJACENT TO ALL PAVED AREAS AND ADJACENT TO BUILDING FOOTPRINT. ALL OTHER DISTURBED AREAS SHALL BE SEEDDED.
4. SUBMITTALS SHALL INCLUDE: PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED, CERTIFICATION OF SOD AS KANSAS STATE FESCUE TURF MIX, PRODUCT CERTIFICATES: FOR SOIL AMENDMENTS AND FERTILIZERS, SIGNED BY PRODUCT MANUFACTURER, MATERIAL TEST REPORTS: FOR EXISTING SURFACE SOIL AND EXISTING TOPSOIL, AND PLANTING SCHEDULE: INDICATING ANTICIPATED PLANTING DATES FOR SOD INSTALLATION.
5. INSTALLER QUALIFICATIONS: A QUALIFIED LANDSCAPE INSTALLER WHOSE WORK HAS RESULTED IN SUCCESSFUL LAWN ESTABLISHMENT.
6. INSTALLER'S FIELD SUPERVISION: REQUIRE INSTALLER TO MAINTAIN AN EXPERIENCED FULL-TIME SUPERVISOR ON PROJECT SITE WHEN PLANTING IS IN PROGRESS.
7. REPORT SUITABILITY OF TOPSOIL FOR LAWN GROWTH. STATE RECOMMENDED QUANTITIES OF NITROGEN, PHOSPHORUS, AND POTASH NUTRIENTS AND SOIL AMENDMENTS TO BE ADDED TO PRODUCE SATISFACTORY TOPSOIL.
8. DELIVERY, STORAGE, AND HANDLING FOR SOD: HARVEST, DELIVER, STORE, AND HANDLE SOD ACCORDING TO REQUIREMENTS IN TIPS "SPECIFICATIONS FOR TURFGRASS SOD MATERIALS" AND "SPECIFICATIONS FOR TURFGRASS SOD TRANSPLANTING AND INSTALLATION" IN ITS "GUIDELINE SPECIFICATIONS TO TURFGRASS SODDING."
9. LAWN MAINTENANCE: BEGIN MAINTENANCE IMMEDIATELY AFTER EACH AREA IS PLANTED AND CONTINUE UNTIL ACCEPTABLE LAWN IS ESTABLISHED, BUT FOR NOT LESS THAN 60 DAYS FROM DATE OF SUBSTANTIAL COMPLETION. MAINTAIN AND ESTABLISH LAWN BY WATERING, FERTILIZING, WEEDING, MOWING, TRIMMING, REPLANTING, AND OTHER OPERATIONS. ROLL, REGRADE, AND REPLANT BARE OR ERODED AREAS TO PRODUCE A UNIFORMLY SMOOTH LAWN. WATERING: PROVIDE AND MAINTAIN TEMPORARY IRRIGATION SYSTEM TO CONVEY WATER FROM A DEEPER SOURCE AND TO KEEP LAWN UNIFORMLY MOIST TO A DEPTH OF 4 INCHES.
10. WATER LAWN AT A MINIMUM RATE OF 1 INCH PER WEEK OR AS NECESSARY TO PROVIDE A HEALTHY GREEN APPEARANCE. A SURE ROOT SYSTEM IS DESIRED THEREFORE DO NOT WATER LAWNS AFTER ESTABLISHMENT MORE THAN EVERY OTHER DAY.
11. MOW LAWN AS SOON AS TOP GROWTH IS TALL ENOUGH TO CUT. REPEAT MOWING TO MAINTAIN SPECIFIED HEIGHT WITHOUT CUTTING MORE THAN 33 PERCENT OF GRASS HEIGHT. REMOVE NO MORE THAN 33 PERCENT OF GRASS-LEAF GROWTH IN INITIAL OR SUBSEQUENT MOWINGS. DO NOT SCHEDULE INITIAL GRASS BLADES BEND OVER AND BECOME MATTED. DO NOT MOW WHEN GRASS IS WET. SCHEDULE INITIAL AND SUBSEQUENT MOWINGS TO MAINTAIN THE FOLLOWING GRASS HEIGHT: MOW GRASS 2 INCHES HIGH IN SPRING AND FALL AND 2 1/2 INCHES HIGH IN THE SUMMER. TRIM AND EDGE ALONG WALKS, WALLS, ETC.
12. LAWN POSTFERTILIZATION: APPLY FERTILIZER AFTER INITIAL MOWING AND WHEN GRASS IS DRY.
13. APPLY FERTILIZER 5 TIMES PER SEASON, SPRING: FERTILIZER PLUS WEED CONTROL FOR GRASSBAGS, LATE SPRING: FERTILIZER PLUS WEED CONTROL FOR BROADLEAF WEEDS, SUMMER: FERTILIZER, EARLY FALL: FERTILIZER PLUS WEED CONTROL, LATE FALL: WINTERIZER.
14. AERATE LAWN A MINIMUM OF ONCE PER YEAR.
15. TURFGRASS SPECIES: GRASS SPECIES, BOTH SOD AND SEED, AS FOLLOWS, WITH NOT LESS THAN 95 PERCENT GERMINATION, NOT LESS THAN 85 PERCENT PURE SEED, AND NOT MORE THAN 0.5 PERCENT WEED SEED: MOST CURRENT AVAILABLE KANSAS STATE FESCUE TURF MIX, RATED IN TOP 1/3 OF VARIETIES TESTED FOR VISUAL APPEARANCE AVERAGE THROUGHOUT THE YEAR OR APPROVED EQUIVA.
16. TOPSOIL: ASTM D 5268, PH RANGE OF 5.5 TO 7, A MINIMUM OF 4 PERCENT ORGANIC MATERIAL CONTENT; FREE OF STONES 1 INCH OR LARGER IN ANY DIMENSION AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH.
17. TOPSOIL SOURCE: REUSE SURFACE SOIL STOCKPILED ON-SITE. VERIFY SUITABILITY OF STOCKPILED SURFACE SOIL TO PRODUCE TOPSOIL. CLEAN SURFACE SOIL OF ROOTS, PLANTS, SOD, STONES, CLAY LUMPS, AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH. SUPPLEMENT WITH IMPORTED OR MANUFACTURED TOPSOIL FROM OFF-SITE SOURCES WHEN QUANTITIES ARE INSUFFICIENT. OBTAIN TOPSOIL DISPLACED FROM NATURALLY WELL-DRAINED CONSTRUCTION OR MINING SITES WHERE TOPSOIL OCCURS AT LESS THAN 12 INCHES DEPTH AND DO NOT OBTAIN FROM BOGS OR MARSHES. TOPSOIL TO BE PLACED IN AN 8' LIFT IN ALL PLANTING BED AREAS.
18. AMEND SOIL AS NECESSARY TO MEET TOPSOIL REQUIREMENTS OF ASTM D 5268.
19. EXAMINE AREAS TO RECEIVE LAWNS AND GRASS FOR COMPLIANCE WITH REQUIREMENTS AND OTHER CONDITIONS AFFECTING PERFORMANCE. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
20. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES, TREES, SHRUBS, AND PLANTINGS FROM DAMAGE CAUSED BY PLANTING OPERATIONS. PROVIDE EROSION-CONTROL MEASURES TO PREVENT EROSION AND DISPLACEMENT OF SOILS AND DISCHARGE OF SOIL-BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT PROPERTIES AND WALKWAYS. ELIMINATE COMPETING GRASS VEGETATION IN ALL AREAS TO BE IMPROVED WITH "ROUNDUP" OR AN APPROVED EQUIVALENT ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. SEVERAL APPLICATIONS MAY BE NECESSARY. WORK TO REMOVE COMPETING VEGETATION, SHALL BEGIN SEVERAL MONTHS BEFORE SODDING OPERATIONS COMMENCE.
21. LIMIT SOD AND SEED SUBGRADE PREPARATION TO AREAS TO BE PLANTED THE SAME OR FOLLOWING DAY. NEWLY GRADED AREAS, LOOSEN SUBGRADE TO A MINIMUM DEPTH OF 6 INCHES. REMOVE STONES LARGER THAN 1 INCH IN ANY DIMENSION AND STICKS, ROOTS, RUBBISH, AND OTHER EXTRANEOUS MATTER AND LEGALLY DISPOSE OF THEM OFF OWNER'S PROPERTY. APPLY FERTILIZER DIRECTLY TO SUBGRADE BEFORE LOOSENING. SPREAD TOPSOIL IF NECESSARY, APPLY SOIL AMENDMENTS AND FERTILIZER ON SURFACE, AND THOROUGHLY BLEND.
22. LEGALLY DISPOSE OF WASTE MATERIAL, INCLUDING GRASS, VEGETATION AND TURF OFF OWNER'S PROPERTY.

**SOD INSTALLATION NOTE:**

1. FINISH GRADES SHALL BE ACCURATE.
2. CULTIVATE ENTIRE AREA TO A MINIMUM 6" DEPTH. EXCEPTIONS TO AREAS MAY BE MADE IF TREE ROOTS ARE ENCOUNTERED WITHIN THE DRAINAGE OF EXISTING TREES. HAND RAKE SMOOTH.
3. ADD ADDITIVES (AS PER SOIL TEXT RECOMMENDATIONS) AND TILL INTO SOIL.
4. LAI AND ROLL SOIL. WATER THOROUGHLY.

The diagram is a cross-section showing the layers of a lawn installation. From top to bottom, the layers are:
 

- FINISHED GRADE**: The top surface line on the left.
- NEW LAWN AREA**: A horizontal bracket spanning the width of the sod area.
- SOD**: A layer of sod blocks, represented by a brick pattern, sitting on top of the cultivated soil.
- CULTIVATED SOIL**: A layer of soil, represented by a wavy line pattern, directly beneath the sod.
- PAVEMENT**: A layer of material, represented by a pattern of circles, located to the right of the lawn area.
- UNDISTURBED SUBGRADE**: The bottom-most layer, represented by a stippled pattern.

 The sod and cultivated soil layers are shown as continuous across the width of the lawn area, with the finished grade line following the top of the sod.

Site plan showing an existing building and surrounding landscape. The plan includes a matchline on the right and various annotations for materials and plantings.

Annotations include:

- EXISTING BUILDING
- CONCRETE
- 20' UTILITY EASEMENT
- 20' SANITARY SEWER EASEMENT
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Surveying: 2006027138  
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Overland Park, KS 66210  
913.247.0200, mkec.com

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Mech/Elect/Plumb Engineer  
State Certificate of Authority #EGC-000178  
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Structural Engineer  
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4338 Belleview Ave  
Kansas City, MO 64111  
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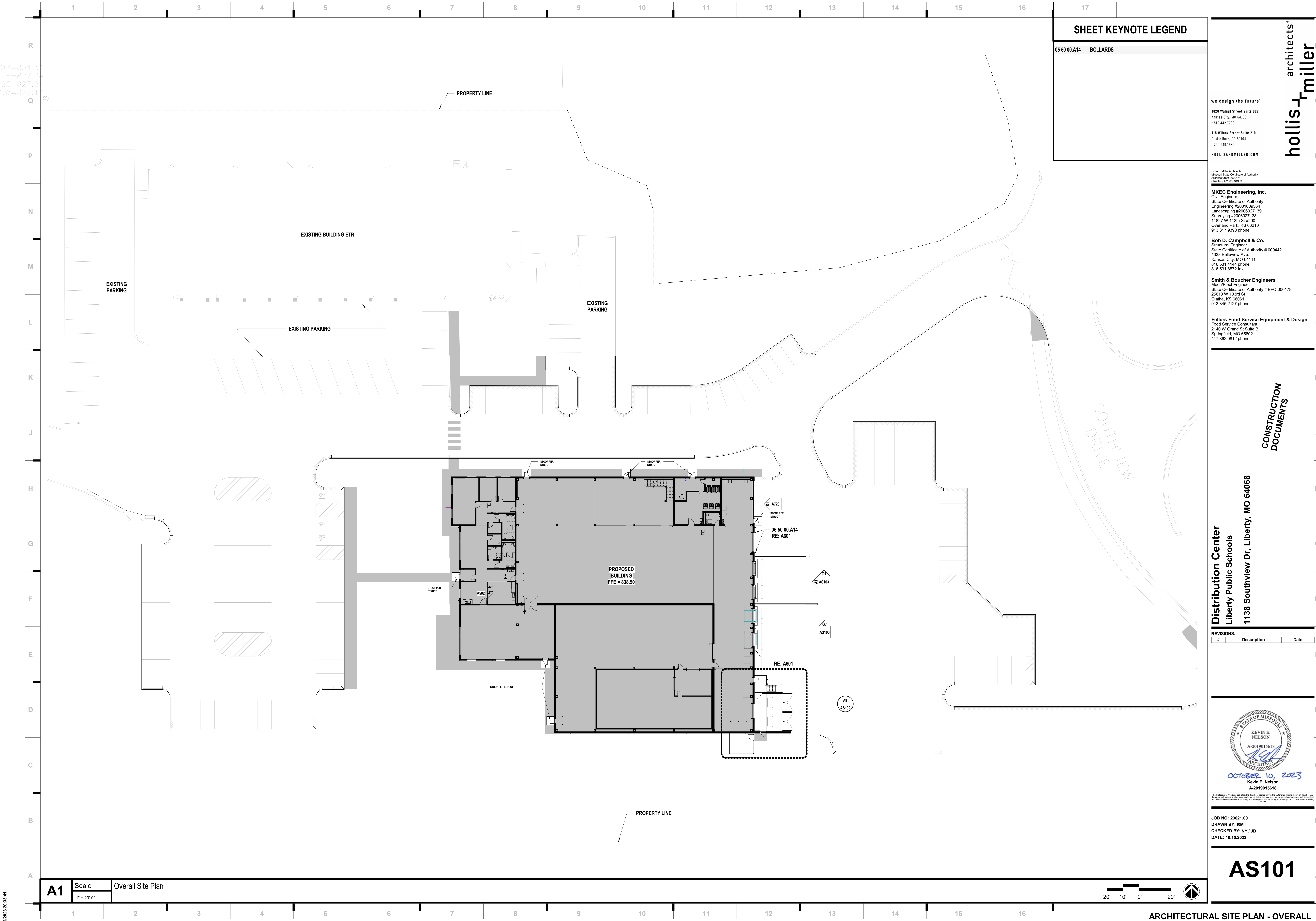
BRIAN J. HOCHSTEIN, L.A.

JOB NO: 23021.00  
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DATE: 10.10.2023

# L101



OP=834.34  
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SE=827.24  
SW=827.14



SHEET KEYNOTE LEGEND

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Castle Rock, CO 80104  
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Civil Engineer  
State Certificate of Authority  
Engineering #2001009364  
Landscaping #2006027139  
Surveying #2006027139  
11827 W 112th St #200  
Overland Park, KS 66210  
913.317.5590 phone

**Bob D. Campbell & Co.**  
Structural Engineer  
State Certificate of Authority # 000442  
4338 Belleview Ave.  
Kansas City, MO 64111  
816.531.4144 phone  
816.531.8572 fax

**Smith & Boucher Engineers**  
Mech/Elect Engineer  
State Certificate of Authority # EFC-000178  
25618 W 103rd St  
Olathe, KS 66061  
913.345.2127 phone

**Fellers Food Service Equipment & Design**  
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2140 W Grand St Suite B  
Springfield, MO 65802  
417.862.0812 phone

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Distribution Center  
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1138 Southview Dr, Liberty, MO 64068

REVISIONS:

#	Description	Date
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OCTOBER 10, 2023  
Kevin E. Nelson  
A-2019015618

This Professional Address and Affirmation are effective for the design services only. In the separate and clearly marked of this work, all drawings, calculations and other documents are submitted to the client and are intended to be used as such. The client is responsible for the accuracy and completeness of the information provided to the architect, and the architect assumes no responsibility for any errors or omissions in the design, or documents not including the same.

JOB NO: 23021.00  
DRAWN BY: BM  
CHECKED BY: NY / JB  
DATE: 10.10.2023

AS101

A1

Scale

Overall Site Plan

1" = 20'-0"

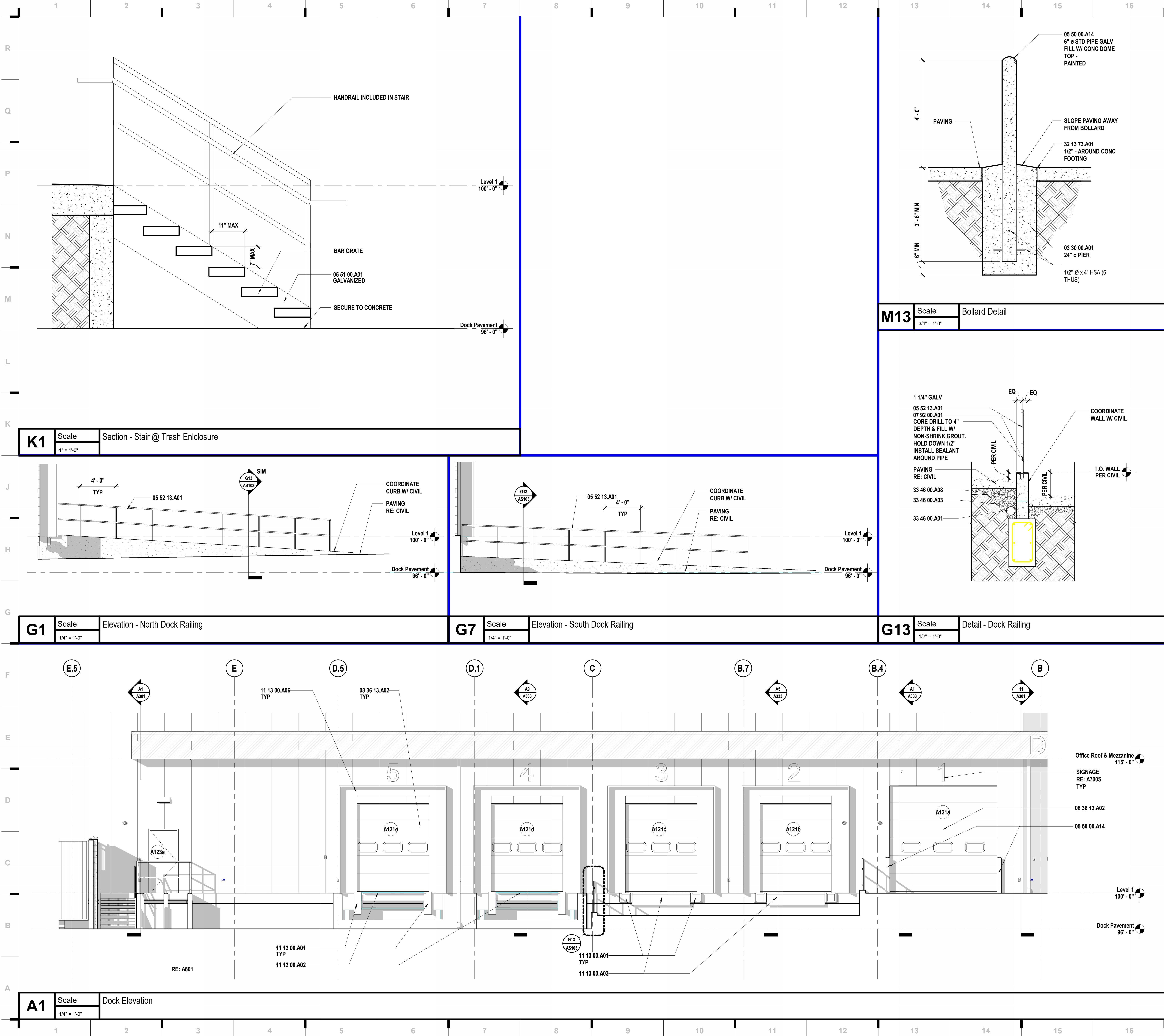








10/9/2023 20:33:52



### SHEET KEYNOTE LEGEND

03 30 00.A01	CAST-IN-PLACE CONCRETE
05 50 00.A14	BOLLARDS
05 51 00.A01	PREASSEMBLED STEEL STAIRS
05 52 13.A01	STEEL PIPE AND TUBE RAILINGS
07 92 00.A01	SEALANT
08 36 13.A02	INSULATED SECTIONAL DOORS
11 13 00.A01	DOCK BUMPERS
11 13 00.A02	DOCK LEVELERS
11 13 00.A03	EDGE-OF-DOCK LEVELER
11 13 00.A06	DOCK SEALS
32 13 73.A01	EXPANSION/ISOLATION JOINT W/SEALANT
33 46 00.A01	SUBDRAINAGE SYSTEM PIPING
33 46 00.A03	GEOTEXTILE FILTER FABRICS
33 46 00.A08	GRANULAR FILTERING MATERIAL

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Structure # 200601333

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Engineering #2001009364  
Landscaping #2006027139  
Surveying #2006027139  
11827 W 112th St #200  
Overland Park, KS 66210  
913.317.5590 phone

**Bob D. Campbell & Co.**  
Structural Engineer  
State Certificate of Authority # 000442  
4338 Bellevue Ave.  
Kansas City, MO 64111  
816.531.4144 phone  
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Olathe, KS 66061  
913.345.2127 phone

**Fellers Food Service Equipment & Design**  
Food Service Consultant  
2140 W Grand St Suite B  
Springfield, MO 65802  
417.862.0812 phone

### CONSTRUCTION DOCUMENTS

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REVISIONS:

#	Description	Date
1	Initial Issue	10/10/2023

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KEVIN E. NELSON  
A-2019015618  
OCTOBER 10, 2023  
Kevin E. Nelson  
A-2019015618

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JOB NO: 23021.00  
DRAWN BY: BM  
CHECKED BY: NY / JB  
DATE: 10.10.2023

## AS103

ARCHITECTURAL SITE - ENLARGED PLANS & DETAILS

Please consider the environment before printing this.



Architectural drawing showing a set of plans and elevations for a building, including a floor plan, section, and elevation. The drawing is labeled with dimensions and includes a legend for symbols and abbreviations.

**SYMBOL LEGEND**

BRICK (in section)  
CONCRETE MASONRY UNIT - CMU (in section)  
CONCRETE (in section)  
GYP BD (in section)  
PLYWOOD (in section)  
RIGID INSUL & EIFS (in section)  
BATT INSUL (in section)  
ACOUSTICAL TILE (in section)  
STUCCO (in section)  
SOIL  
SAND  
CONTINUOUS LUMBER  
BLOCKING/SHIM  
FINISH LUMBER/HARDWOOD  
STEEL OR METAL

Classroom  
A101  
RM NAME  
RM NUMBER

A123 DOOR NUMBER  
A WALL TYPE  
A FRAME TYPE  
1 GLASS TYPE  
SECTION CUT LINE  
ELEVATION SYMBOL  
ELEV NUMBER  
SHEET NUMBER  
ENLARGED DETAIL  
Joist Bearing  
100'-0"  
DATUM MARKER  
AREA "A"  
AREA "B"  
MATERIAL JOINT  
BUILDING EXPANSION JOINT

**ABBREVIATIONS**

A acoustical  
ADJ adjustable/adjacent  
AFF above finish floor  
ALUM aluminum  
ALT alternate  
ANOD anodized  
APPROX approximate(ly)  
ARCH architect(ural)  
B  
BLDG building  
BLKG blocking  
BM beam  
BOT bottom of  
BRG bearing  
BRKT bracket  
BTM bottom  
BSMT basement  
BTWN between  
C  
CAB cabinet  
CC center to center  
CEM cement(itious)  
CG corner guard  
CJ control joint  
CLG ceiling  
CLR clear(ance)  
CM construction manager  
CMU concrete masonry unit  
COL column  
CONC concrete  
CONST construction  
CONT continuous  
CTR center  
CY cubic yard(s)  
D  
DF drinking fountain  
DIA diameter  
DIM dimension(s)  
DN down  
DS downspout  
DTL detail  
DWG drawing  
E  
E east  
EA each  
EF exterior  
EIFS exterior insulation finish system  
EJ expansion joint  
ELEC electrical  
ELEV elevation  
EQ equal  
EQUIP equipment  
ETR existing to remain  
EW each way  
EXIST existing  
EXP expansion  
EXT exterior  
F  
FA fire alarm  
FD floor drain  
FND foundation  
FE fire extinguisher  
FEC fire extinguisher cabinet  
FF finish floor  
FH fire hose  
FIN finish(ed)  
FIXT fixture  
FLR floor  
FLEX flexible  
FOM face of masonry  
FOPC face of precast  
FOS face of stud  
FT (') foot  
FTG footing  
FV field verify  
G  
GA gauge  
GALV galvanized  
GC general contractor  
GEN general  
GL glass  
GR grade  
GYP gypsum  
GYP BD gypsum board  
H  
HC handicapped  
HD head  
HDWD hardwood  
HDWR hardware  
HM hollow metal  
HORIZ horizontal  
HR hour  
HT height  
HVAC heating, ventilation & air conditioning  
I  
ID inside diameter  
IN (") inch(es)  
INDIV individual  
INFO information  
INSUL insulation  
INT interior  
J  
JST joist  
JT joint  
K  
KIT kitchen  
L  
LKR locker  
LT light  
M  
MAS masonry  
MATL material  
MAX maximum  
MB markerboard  
MECH mechanical  
MEP mechanical/electrical/plumbing  
MFR manufacturer  
MIN minimum  
MISC miscellaneous  
MO masonry opening  
MTD mounted  
MTG HT mounting height  
MTL metal  
MULL mullion  
N  
N north  
NIC not in contract  
NO (#) number  
NOM nominal  
NRC noise reduction coefficient  
NTS not to scale  
O  
OC on center  
OD outside diameter  
OTS open to structure  
OPNG opening  
OPP opposite  
P  
PAR parallel  
PCP portland cement plaster  
PERP perpendicular  
PL property line  
PLBG plumbing  
PLYWD plywood  
PNL panel  
PR pair  
PREFAB prefabricated  
PTD painted  
PVC polyvinyl chloride  
R  
RAD radius  
RD roof drain  
RE refer to  
REINF reinforcing (ed)  
REV reversed  
REQD required  
RFG roofing  
S  
S south  
SCHED schedule  
SECT section  
SF square foot  
SHT sheet  
SHWR shower  
SIM similar  
SPEC specification  
SQ square  
SSTL stainless steel  
STC sound transmission coefficient  
STD standard  
STL steel  
STRUCT structure(al)  
SUSP suspend(ed)  
SY square yard  
SYM symmetrical  
T  
T&B top & bottom  
T&G tongue & groove  
TO top of  
TOC top of curb  
TOM top of masonry  
TOS top of slab/steel  
TOW top of wall  
TS tube steel  
TYP typical  
U  
UNO unless noted otherwise  
V  
VERT vertical  
VTR vent thru roof  
W  
W west  
WD wood  
WDO window  
W/ with  
W/O without  
Y  
YD yard  
SYMBOLS  
/ per (or by)  
& and  
@ at  
I channel  
C centerline  
Ø diameter/round  
± plus/minus

**Items to Review in Mock Up:**

- Metal Panel to Structure Attachment
- Metal Panel Extrusions and Joints at Openings and Edges/ Penetrations, Including Sealants as Req'd
- Window Attachment to Pamb Framing

**Revisions:**

#	Description	Date
1		
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**GENERAL ARCHITECTURAL INFORMATION**

**SYMBOL LEGEND**

BRICK (in section)  
CONCRETE MASONRY UNIT - CMU (in section)  
CONCRETE (in section)  
GYP BD (in section)  
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SOIL  
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FINISH LUMBER/HARDWOOD  
STEEL OR METAL

Classroom  
A101  
RM NAME  
RM NUMBER

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A FRAME TYPE  
1 GLASS TYPE  
SECTION CUT LINE  
ELEVATION SYMBOL  
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CMU concrete masonry unit  
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FIXT fixture  
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FT (') foot  
FTG footing  
FV field verify  
G  
GA gauge  
GALV galvanized  
GC general contractor  
GEN general  
GL glass  
GR grade  
GYP gypsum  
GYP BD gypsum board  
H  
HC handicapped  
HD head  
HDWD hardwood  
HDWR hardware  
HM hollow metal  
HORIZ horizontal  
HR hour  
HT height  
HVAC heating, ventilation & air conditioning  
I  
ID inside diameter  
IN (") inch(es)  
INDIV individual  
INFO information  
INSUL insulation  
INT interior  
J  
JST joist  
JT joint  
K  
KIT kitchen  
L  
LKR locker  
LT light  
M  
MAS masonry  
MATL material  
MAX maximum  
MB markerboard  
MECH mechanical  
MEP mechanical/electrical/plumbing  
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MULL mullion  
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N north  
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OC on center  
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OTS open to structure  
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OPP opposite  
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PAR parallel  
PCP portland cement plaster  
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PL property line  
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PLYWD plywood  
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PTD painted  
PVC polyvinyl chloride  
R  
RAD radius  
RD roof drain  
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SECT section  
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SHT sheet  
SHWR shower  
SIM similar  
SPEC specification  
SQ square  
SSTL stainless steel  
STC sound transmission coefficient  
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SYM symmetrical  
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T&B top & bottom  
T&G tongue & groove  
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TOC top of curb  
TOM top of masonry  
TOS top of slab/steel  
TOW top of wall  
TS tube steel  
TYP typical  
U  
UNO unless noted otherwise  
V  
VERT vertical  
VTR vent thru roof  
W  
W west  
WD wood  
WDO window  
W/ with  
W/O without  
Y  
YD yard  
SYMBOLS  
/ per (or by)  
& and  
@ at  
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STEEL OR METAL

Classroom  
A101  
RM NAME  
RM NUMBER

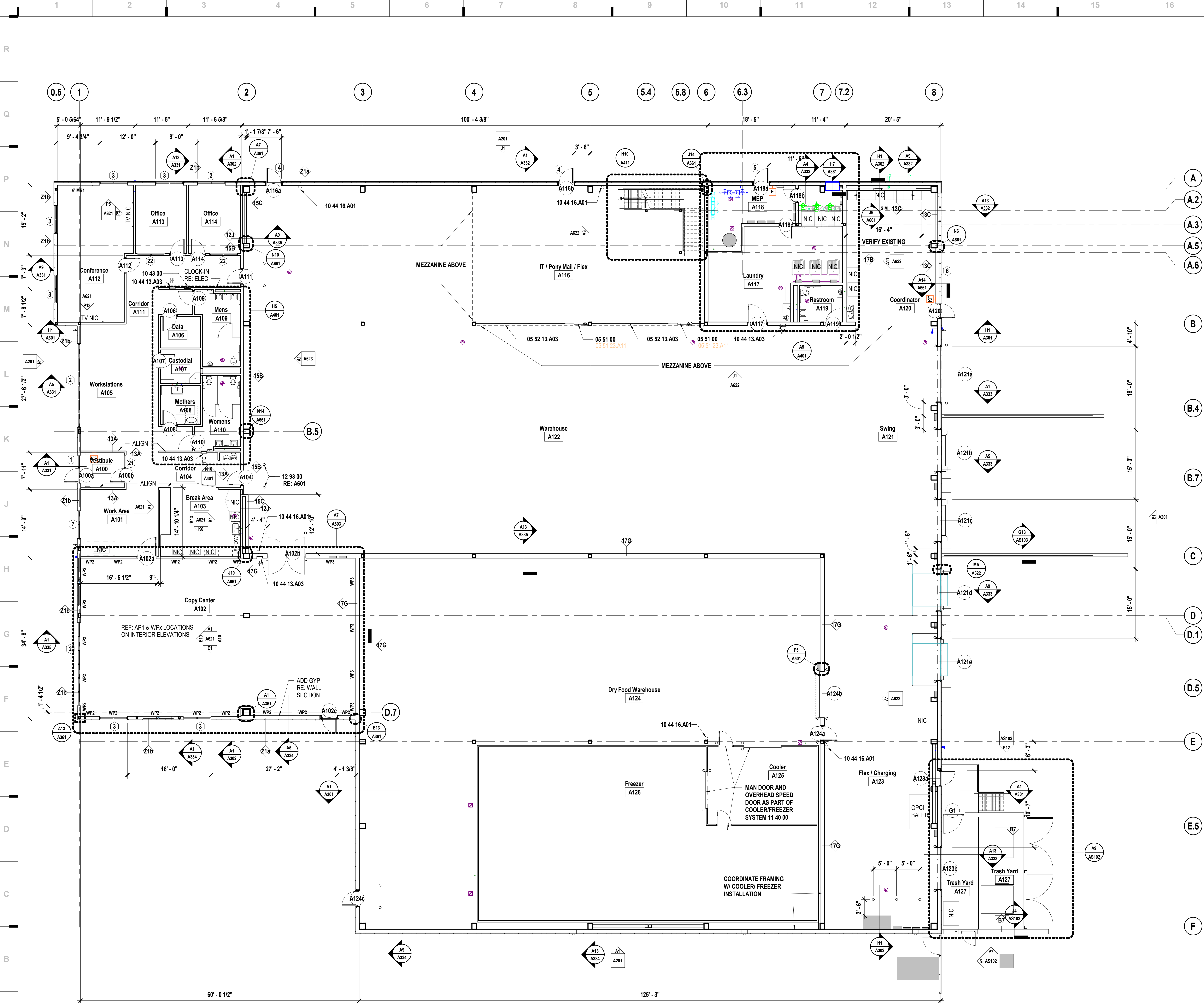
A123 DOOR NUMBER  
A WALL TYPE  
A FRAME TYPE  
1 GLASS TYPE  
SECTION CUT LINE  
ELEVATION SYMBOL  
ELEV NUMBER  
SHEET NUMBER  
ENLARGED DETAIL  
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APPROX approximate(ly)  
ARCH architect(ural)  
B  
BLDG building  
BLKG blocking  
BM beam  
BOT bottom of  
BRG bearing  
BRKT bracket  
BTM bottom  
BSMT basement  
BTWN between  
C  
CAB cabinet  
CC center to center  
CEM cement(it

[illegible]





**A1** Scale Overall Floor Plan - Level 1

**SHEET KEYNOTE LEGEND**

05 51 00	METAL STAIRS
05 52 13.A03	STAINLESS STEEL PIPE AND TUBE RAILINGS
10 43 00	EMERGENCY AID SPECIALTIES
10 44 13.A03	SEMI-RECESSED STEEL CABINET
10 44 16.A01	FIRE EXTINGUISHER
12 93 00	SITE FURNISHINGS

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Structure # 200001333

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Engineering #2001009364  
Landscaping #2006027139  
Surveying #2006027138  
11827 W 112th St #200  
Overland Park, KS 66210  
913.317.5590 phone

**Bob D. Campbell & Co.**  
Structural Engineer  
State Certificate of Authority # 000442  
4338 Bellevue Ave.  
Kansas City, MO 64111  
816.531.4144 phone  
816.531.8572 fax

**Smith & Boucher Engineers**  
Mech/Elect Engineer  
State Certificate of Authority # EFC-000178  
25618 W 103rd St  
Olathe, KS 66061  
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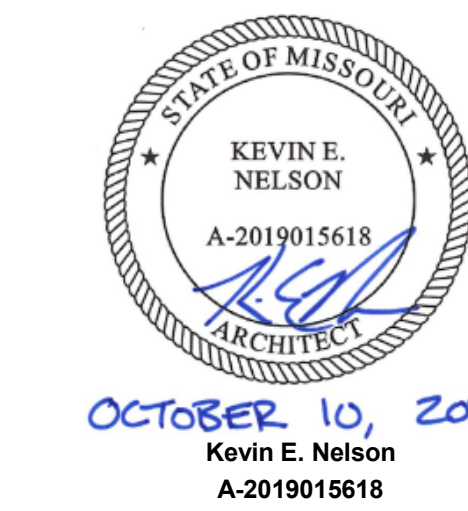
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REVISIONS:

#	Description	Date
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**SHEET NOTES**

- REFER TO SHEET G000 FOR SHEET INDEX
- DO NOT SCALE THIS DRAWING
- ALL INTERIOR WALLS ARE WALL TYPE 13B UNLESS NOTED OTHERWISE.
- ALL EXTERIOR WALLS ARE WALL TYPE 21a UNLESS NOTED OTHERWISE.
- INTERIOR DIMENSIONS ARE TO THE FOLLOWING, UNLESS NOTED OTHERWISE:  
A. TO FACE OF STUD  
B. TO FACE OF MASONRY UNIT  
C. TO FACE OF DOOR AND WINDOW ROUGH OPENINGS
- EXTERIOR DIMENSIONS ARE TO OUTSIDE FACE OF GIRT
- COORDINATE LOCATIONS WHERE BACKING IS REQUIRED FOR WALL HUNG CASEWORK, MARKERBOARDS, WALL HUNG ACCESSORIES AND TECHNOLOGY
- REF TO FINISH FLOOR PLAN & ROOM FINISH SCHEDULE FOR LOCATIONS OF WALL PANELING
- REF TO RACKING PLAN FOR LOCATION AND QUANTITY OF RACKS

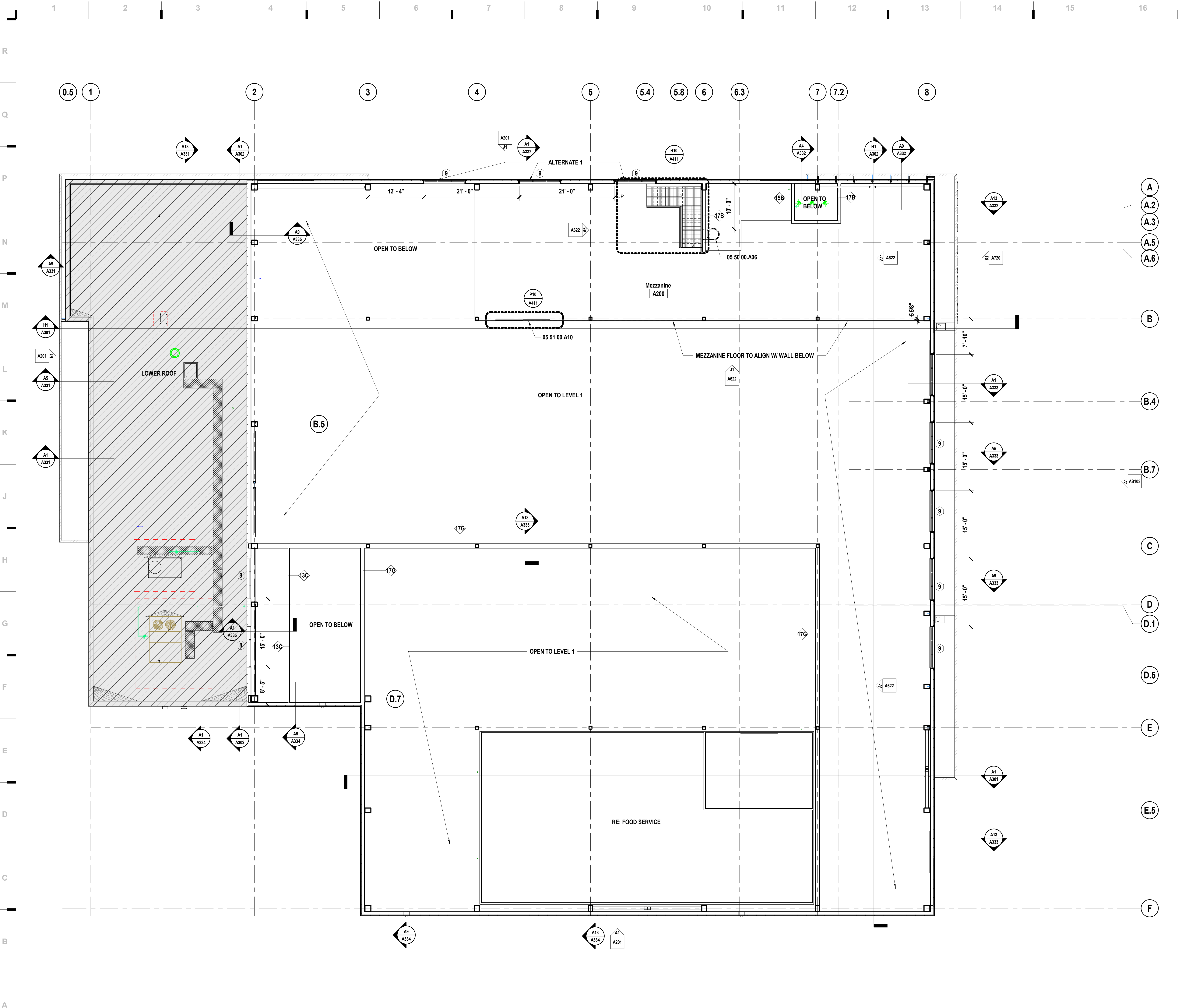


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DATE: 10.10.2023

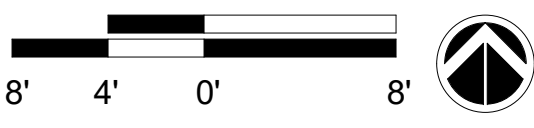
**A101**



10/20/2023 20:31:23



**A1** Scale Overall Floor Plan - Mezzanine Level  
1/8" = 1'-0"



## SHEET KEYNOTE LEGEND

05 50 00.A06 METAL LADDER  
05 51 00.A10 HANDRAIL

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Architecture # 02000101  
Structure # 200601333

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Landscaping #2006027139  
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Overland Park, KS 66210  
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State Certificate of Authority # 000442  
4338 Bellevue Ave.  
Kansas City, MO 64111  
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Mech/Elect Engineer  
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25618 W 103rd St  
Olathe, KS 66061  
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CONSTRUCTION  
DOCUMENTS

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REVISIONS:

#	Description	Date
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OCTOBER 10, 2023  
Kevin E. Nelson  
A-2019015618

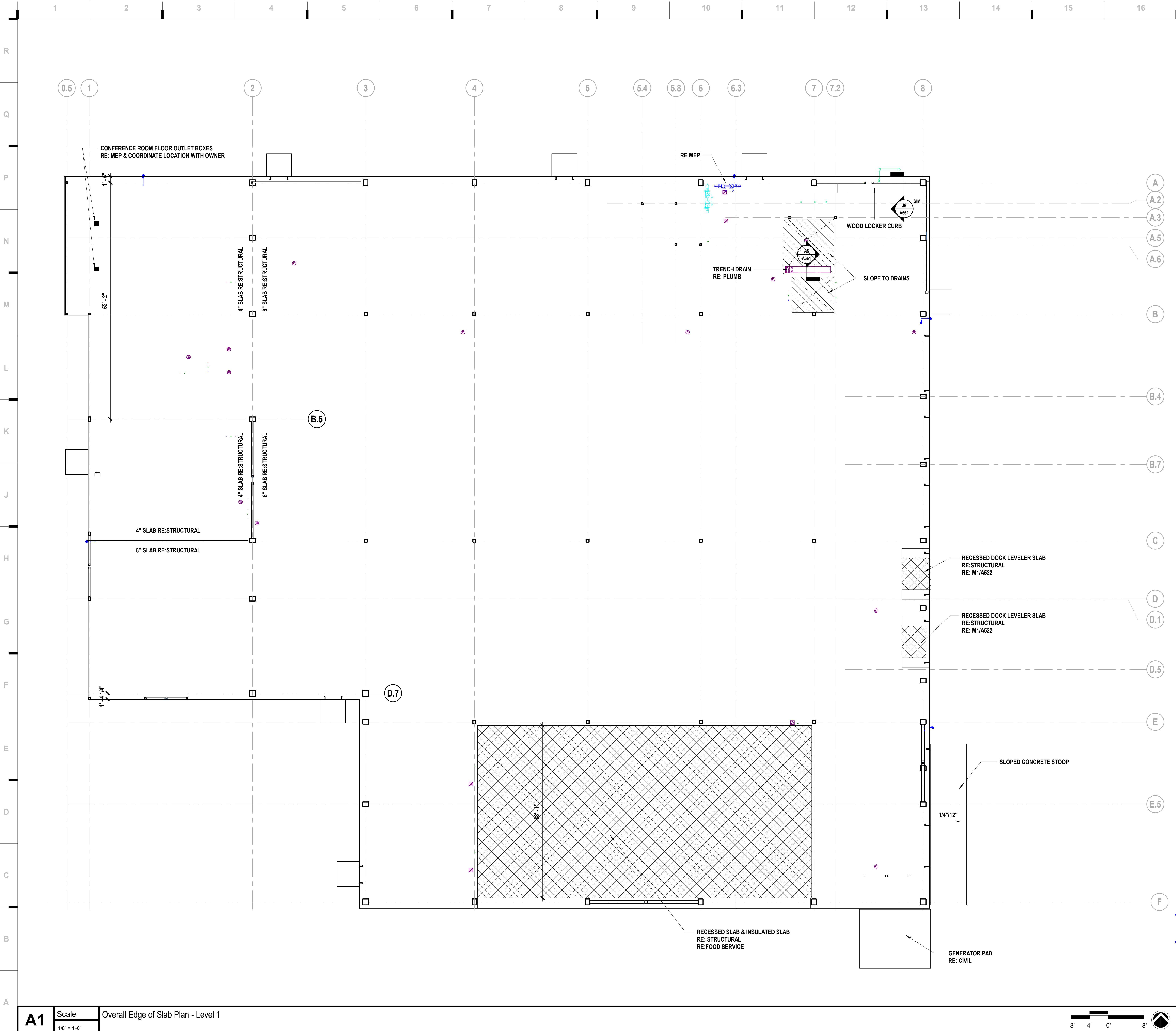
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CHECKED BY: JB / NY  
DATE: 10.10.2023

**A102**



10/9/2023 20:31:24



- SHEET NOTES**
- REFER TO SHEET G000 FOR SHEET INDEX
  - DO NOT SCALE THIS DRAWING
  - REFERENCE STRUCTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS.
  - REFERENCE STRUCTURAL DRAWINGS FOR CONTROL JOINT LOCATIONS.

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STATE OF MISSOURI  
KEVIN E. NELSON  
A-2019015618  
ARCHITECT  
OCTOBER 10, 2023  
Kevin E. Nelson  
A-2019015618

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DRAWN BY: SE / GR  
CHECKED BY: JB / NY  
DATE: 10.10.2023

**A110**

**EDGE OF SLAB PLAN**





SHEET KEYNOTE LEGEND

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SHEET MATERIAL FINISH LEGEND

ID	MATERIAL	COLOR/FINISH
CG1	Corner Guard	Stainless Steel
CG2	End Of Wall Guard	Stainless Steel
CLG1	Ceiling	White
CLG2	Ceiling	White
HP1	High Performance Coating	SW 7004 Snowbound
HP2	High Performance Coating	NOT USED
HP3	High Performance Coating	SW 7067 Cityscape
HP4	High Performance Coating	SW 7603 Poolhouse
P1	Paint	SW 7004 Snowbound
P2	Paint	NOT USED
P3	Paint	SW 7067 Cityscape
P4	Paint	SW 7603 Poolhouse

RCP LEGEND

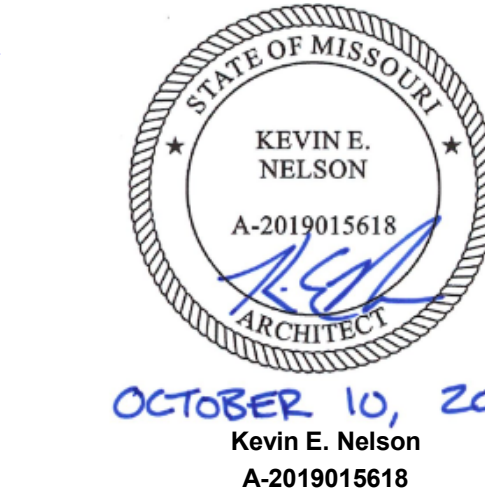
CJ	CONTROL JOINT
OTS	OPEN TO STRUCTURE

SHEET NOTES

- REFER TO SHEET G000 FOR SHEET INDEX
- REFER TO MEP AND TECHNOLOGY SHEETS FOR SPECIFIC CEILING MOUNTED DEVICES
- CENTER ACT GRIDS & LIGHT FIXTURES IN CEILINGS UNO.
- RE: ROOM SCHEDULE FOR CEILING

Distribution Center  
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REVISIONS:  
# Description Date



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DATE: 10.10.2023

A120





## SHEET KEYNOTE LEGEND

05 50 00.A06 METAL LADDER

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913.317.5590 phone

**Bob D. Campbell & Co.**  
Structural Engineer  
State Certificate of Authority # 000442  
4338 Bellevue Ave.  
Kansas City, MO 64111  
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## SHEET MATERIAL FINISH LEGEND

ID	MATERIAL	COLOR/FINISH
CG1	Corner Guard	Stainless Steel
CG2	End Of Wall Guard	Stainless Steel
CLG1	Ceiling	White
CLG2	Ceiling	White
HP1	High Performance Coating	SW 7004 Snowbound
HP2	High Performance Coating	NOT USED
HP3	High Performance Coating	SW 7067 Cityscape
HP4	High Performance Coating	SW 7603 Poolhouse
P1	Paint	SW 7004 Snowbound
P2	Paint	NOT USED
P3	Paint	SW 7067 Cityscape
P4	Paint	SW 7603 Poolhouse

## RCP LEGEND

CJ	CONTROL JOINT
OTS	OPEN TO STRUCTURE

## SHEET NOTES

- REFER TO SHEET G000 FOR SHEET INDEX
- REFER TO MEP AND TECHNOLOGY SHEETS FOR SPECIFIC CEILING MOUNTED DEVICES
- CENTER ACT GRIDS & LIGHT FIXTURES IN CEILINGS UNO.
- RE: ROOM SCHEDULE FOR CEILING

**Distribution Center**  
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Kevin E. Nelson  
A-2019015618

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**A121**

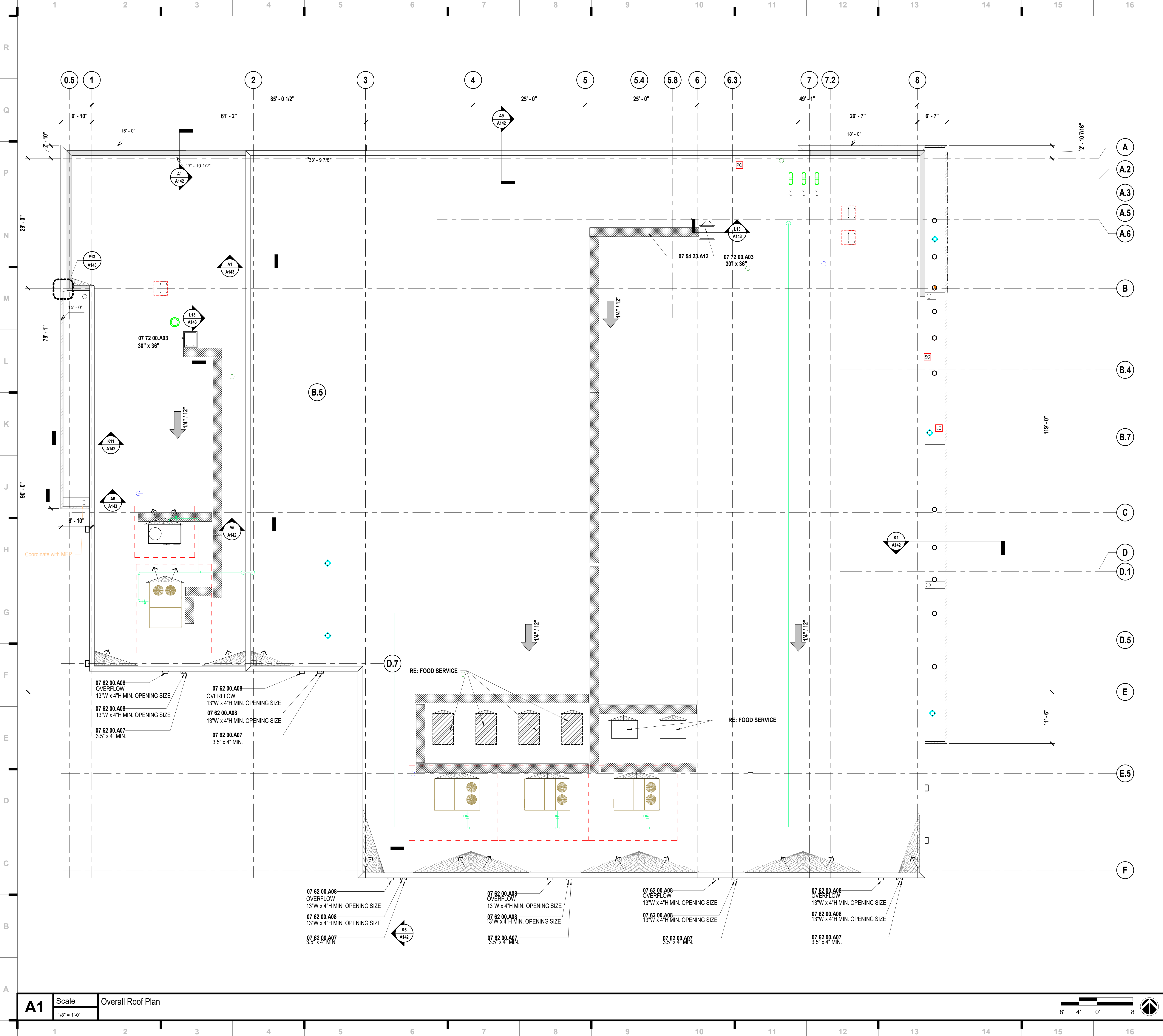
REFLECTED CEILING PLAN - MEZZANINE LEVEL

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### SHEET KEYNOTE LEGEND

07 54 23.A12	DOWNSPOUTS SCUPPERS ROOF HATCHES
07 62 00.A07	
07 62 00.A08	
07 72 00.A03	

### ROOF PLAN LEGEND

	SLOPED STRUCTURE RE. STRUCTURAL FOR ROOF BEARING HEIGHTS/SLOPE
	SLOPE PROVIDED BY TAPERED INSULATION OVER FLAT STRUCTURE @ SLOPE INDICATED
	TAPERED INSULATION CRICKET
	ROOF MEMBRANE 07 54 23.A01
	WALKWAY PADS 07 54 23.A12
	EXISTING ROOF AREA
	BUILDING EXPANSION JOINTS PATH. REFER TO SPECIFIC DETAILS FOR MORE INFORMATION.

### SHEET NOTES

- REFER TO PLUMBING DRAWINGS FOR ROOF DRAIN DETAILS
- REFER TO MECHANICAL DRAWINGS FOR ROOF MOUNTED EQUIPMENT AND CURBS
- REFER TO PLUMBING DRAWINGS FOR EXPOSED GAS PIPING AND SUPPORTS
- REFER TO STRUCTURAL DRAWINGS FOR MECHANICAL SCREEN SUPPORTS
- ALL FLASHING, DOWNSPOUTS AND GUTTERS COLOR TO MATCH ADJACENT METAL PANEL

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913.317.5590 phone

Bob D. Campbell & Co.  
Structural Engineer  
State Certificate of Authority # 000442  
4338 Bellevue Ave.  
Kansas City, MO 64111  
816.531.4144 phone  
816.531.8572 fax

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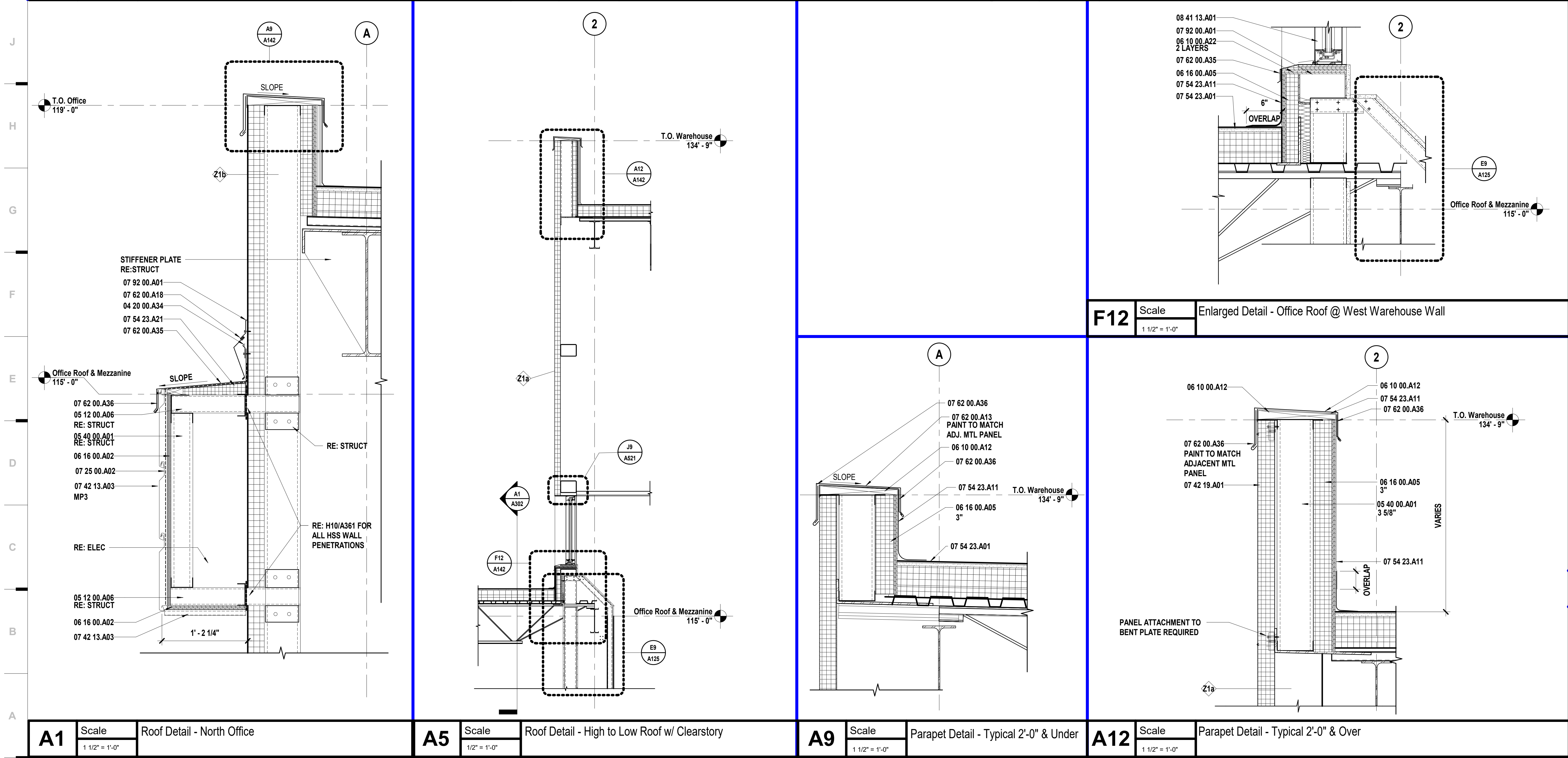
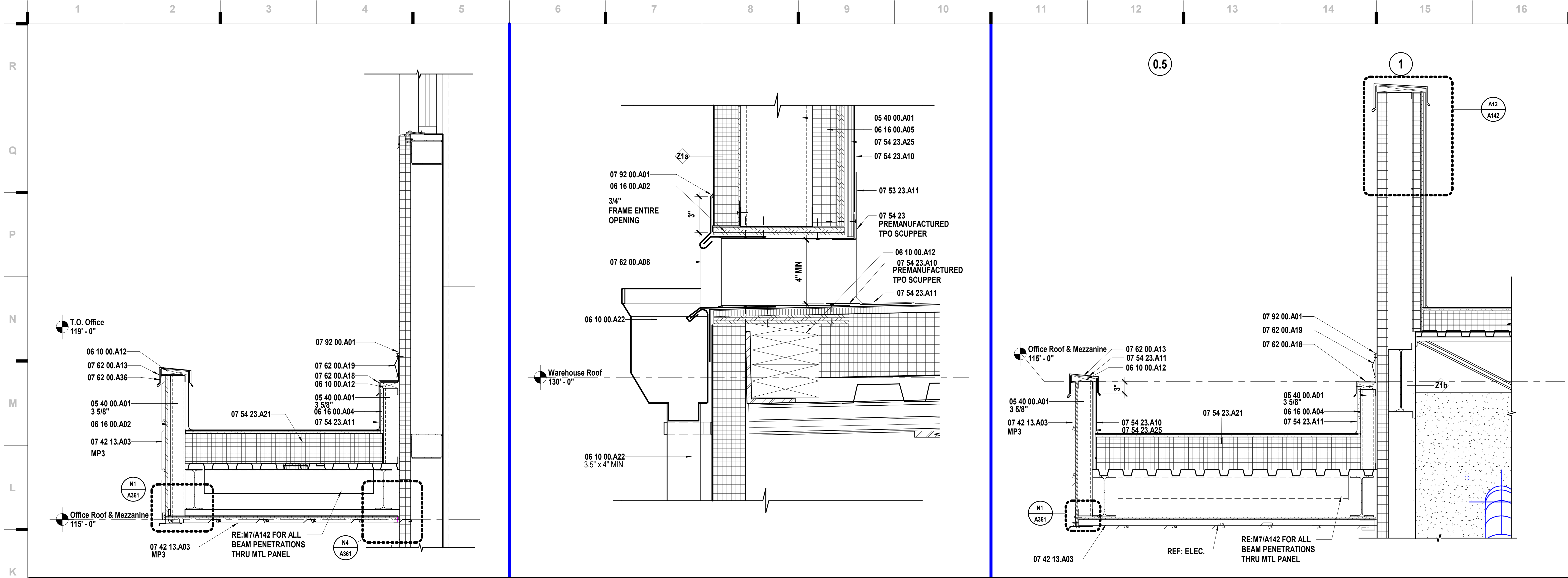
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# A141

OVERALL ROOF PLAN



10/9/2023 20:31:38



## SHEET KEYNOTE LEGEND

04 20 00.A34	FLASHING TERMINATION BARS
05 12 00.A06	HSS SHAPE
05 40 00.A01	COLD-FORMED METAL FRAMING
06 10 00.A12	PRESERVATIVE TREATED WOOD BLOCKING/NAILERS
06 10 00.A22	PRESERVATIVE TREATED PLYWOOD BLOCKING
06 16 00.A02	FIRE-RETARDANT TREATED PLYWOOD
06 16 00.A04	GLASS-MAT GYPSUM WALL SHEATHING
06 16 00.A05	CEMENTITIOUS WALL SHEATHING
07 25 00.A02	SELF-ADHERING WEATHER BARRIERS
07 42 13.A03	CONCEALED FASTENER METAL WALL PANELS
07 42 19.A01	FOAMED-INSULATION-CORE METAL WALL PANELS
07 53 23.A11	VERTICAL WALL FLASHING
07 54 23	TPO ROOFING
07 54 23.A01	ADHERED TPO MEMBRANE ROOFING SYSTEM
07 54 23.A10	BASE FLASHING
07 54 23.A11	VERTICAL WALL FLASHING
07 54 23.A21	TAPERED INSULATION
07 54 23.A25	COVERBOARD
07 62 00.A08	SCUPPERS
07 62 00.A13	COPING
07 62 00.A18	COUNTER FLASHING
07 62 00.A19	COUNTER FLASHING RECEIVER
07 62 00.A35	PRE-FINISHED MISC METAL FLASHING
07 62 00.A36	CLEAT
07 92 00.A01	SEALANT
08 41 13.A01	THERMAL BROKEN STOREFRONT FRAMING (4.5")

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11827 W 112th St #200  
Overland Park, KS 66210  
913.317.5590 phone

**Bob D. Campbell & Co.**  
Structural Engineer  
State Certificate of Authority # 000442  
4338 Bellevue Ave.  
Kansas City, MO 64111  
816.531.4144 phone  
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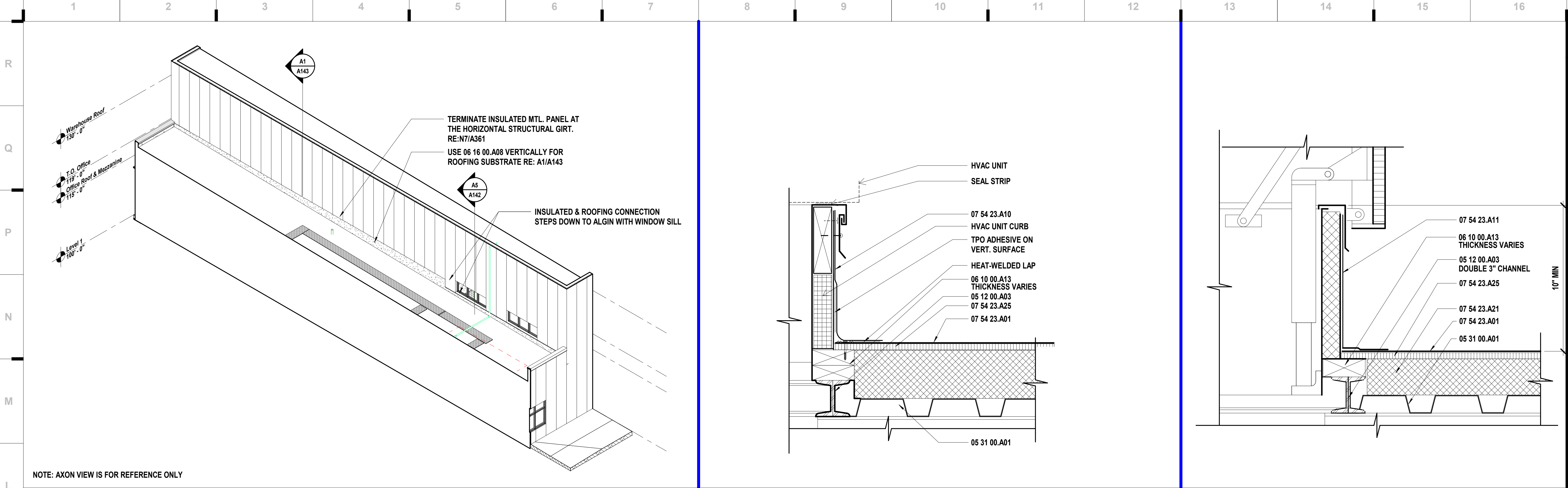
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A142

ROOF DETAILS



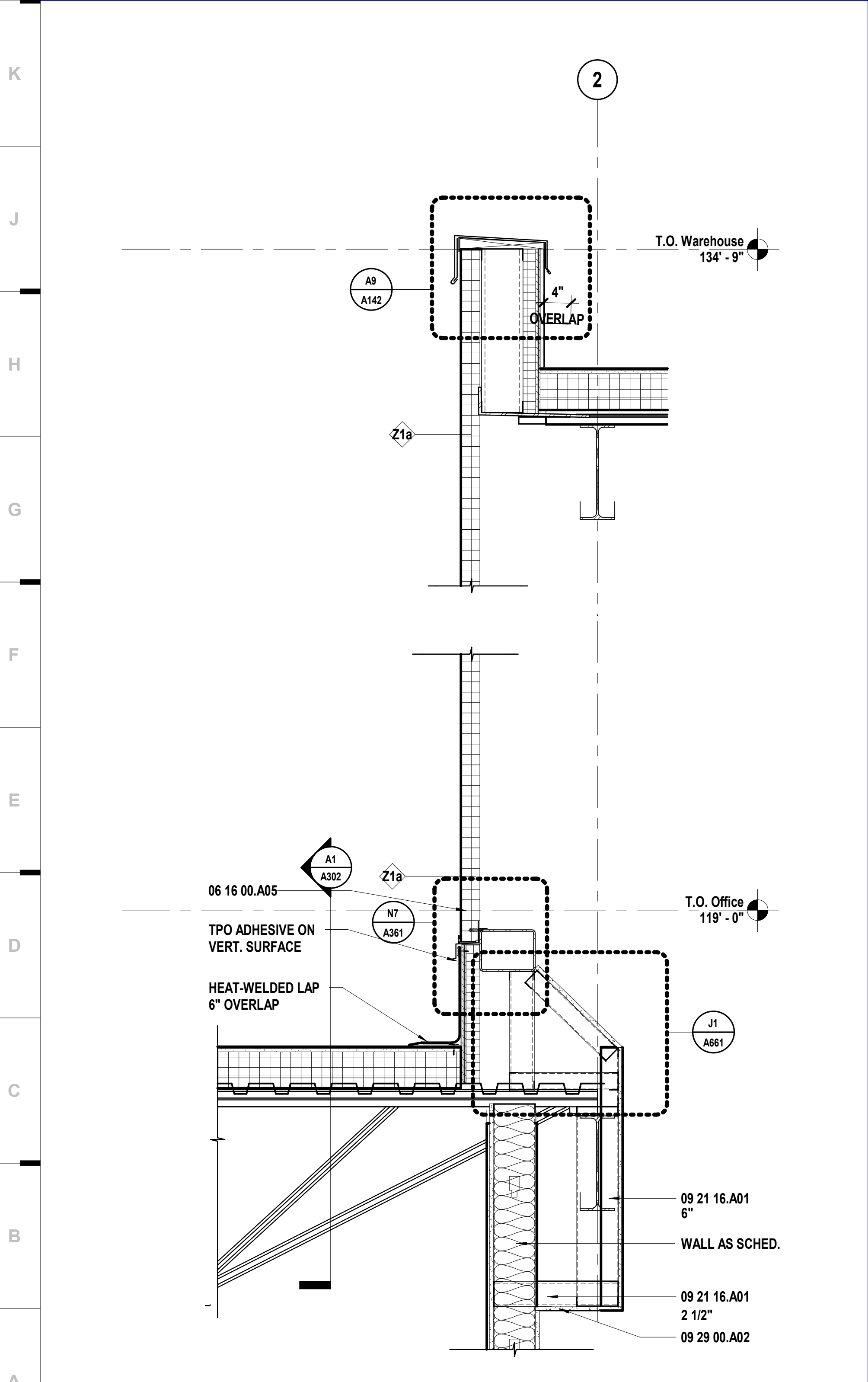


NOTE: AXON VIEW IS FOR REFERENCE ONLY

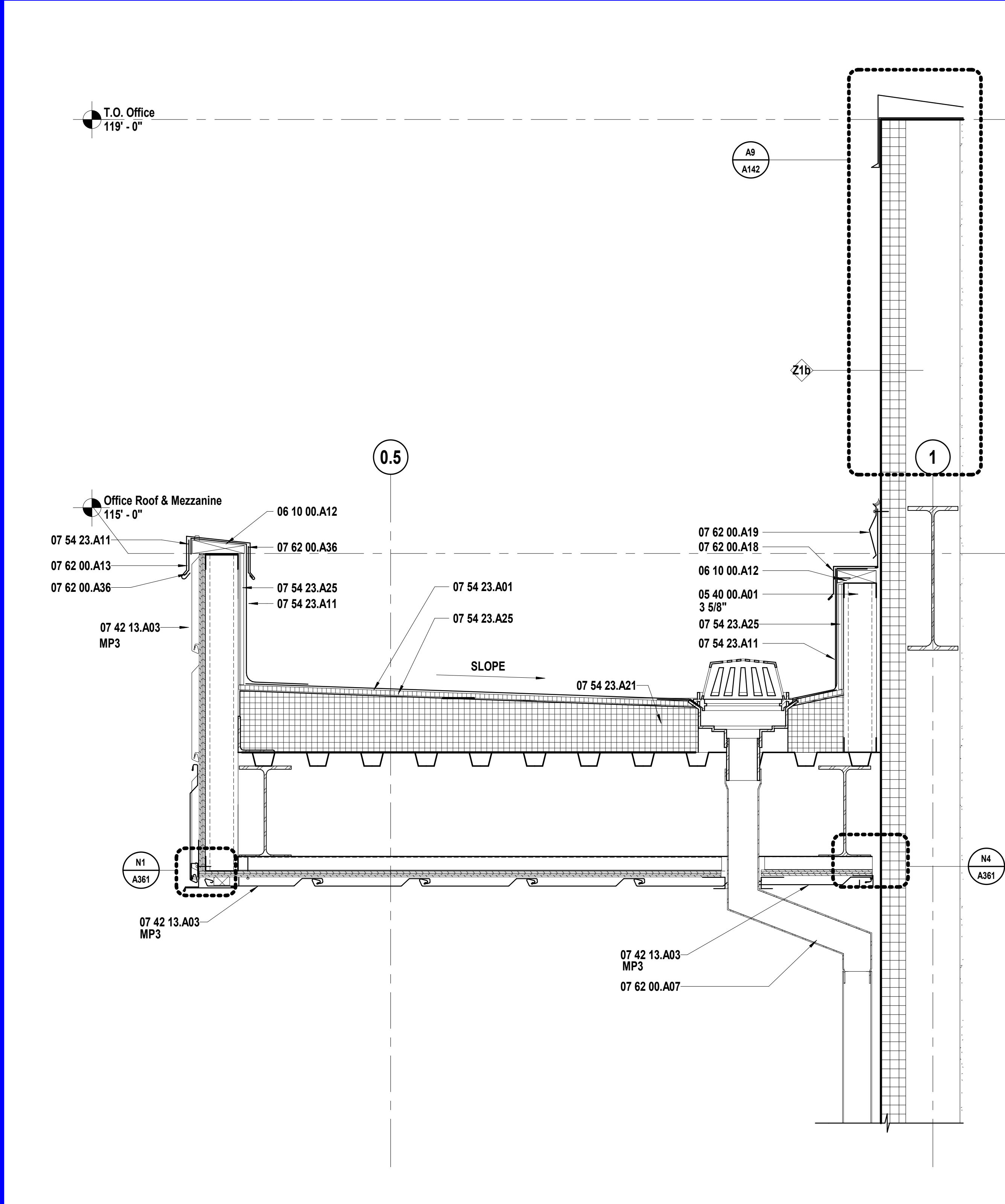
**L1** Scale Axon View @ Low Roof Connection

**L8** Scale Roof Detail @ Insulated HVAC Unit Curb

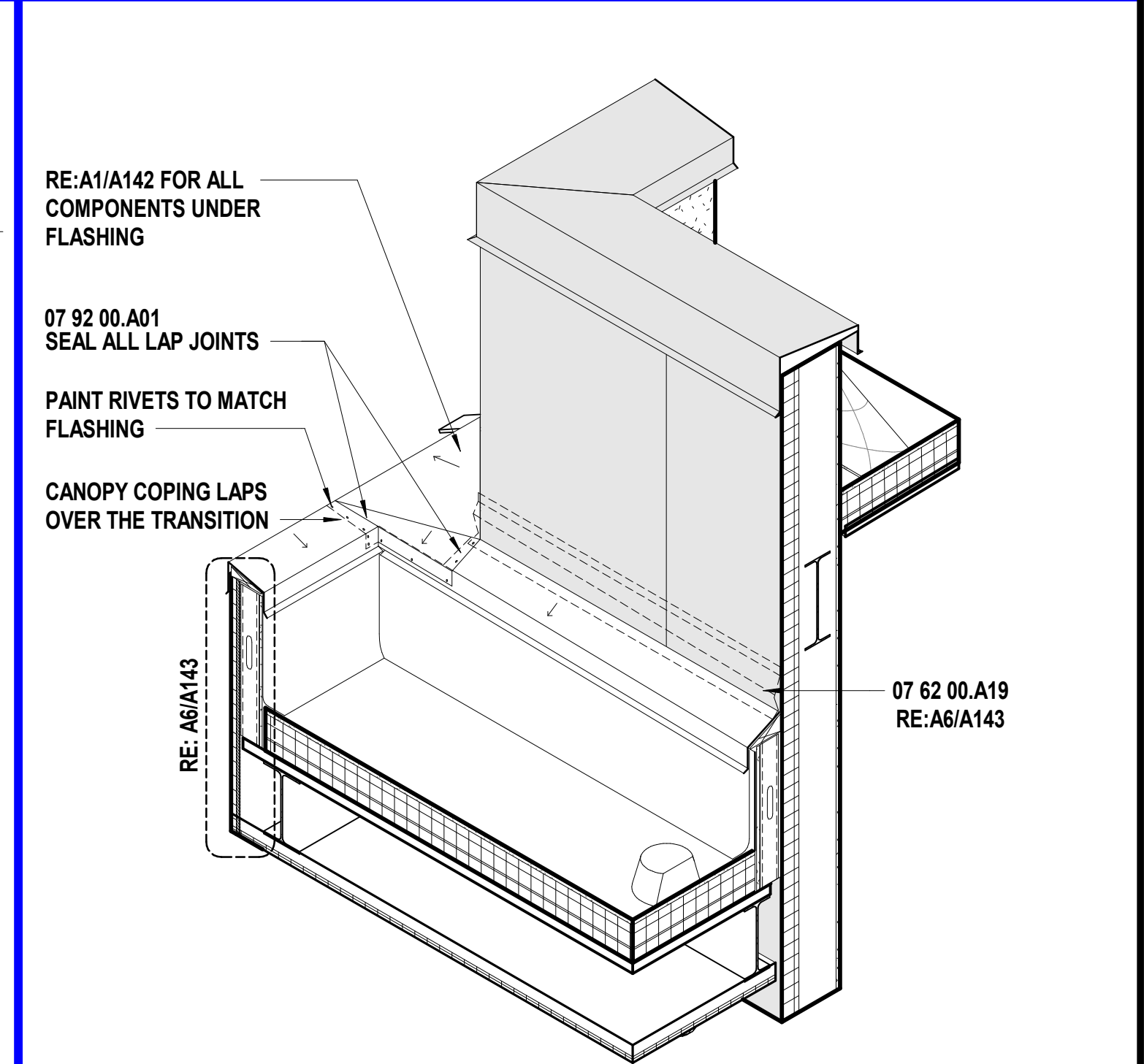
**L13** Scale Roof Detail @ Roof Hatch



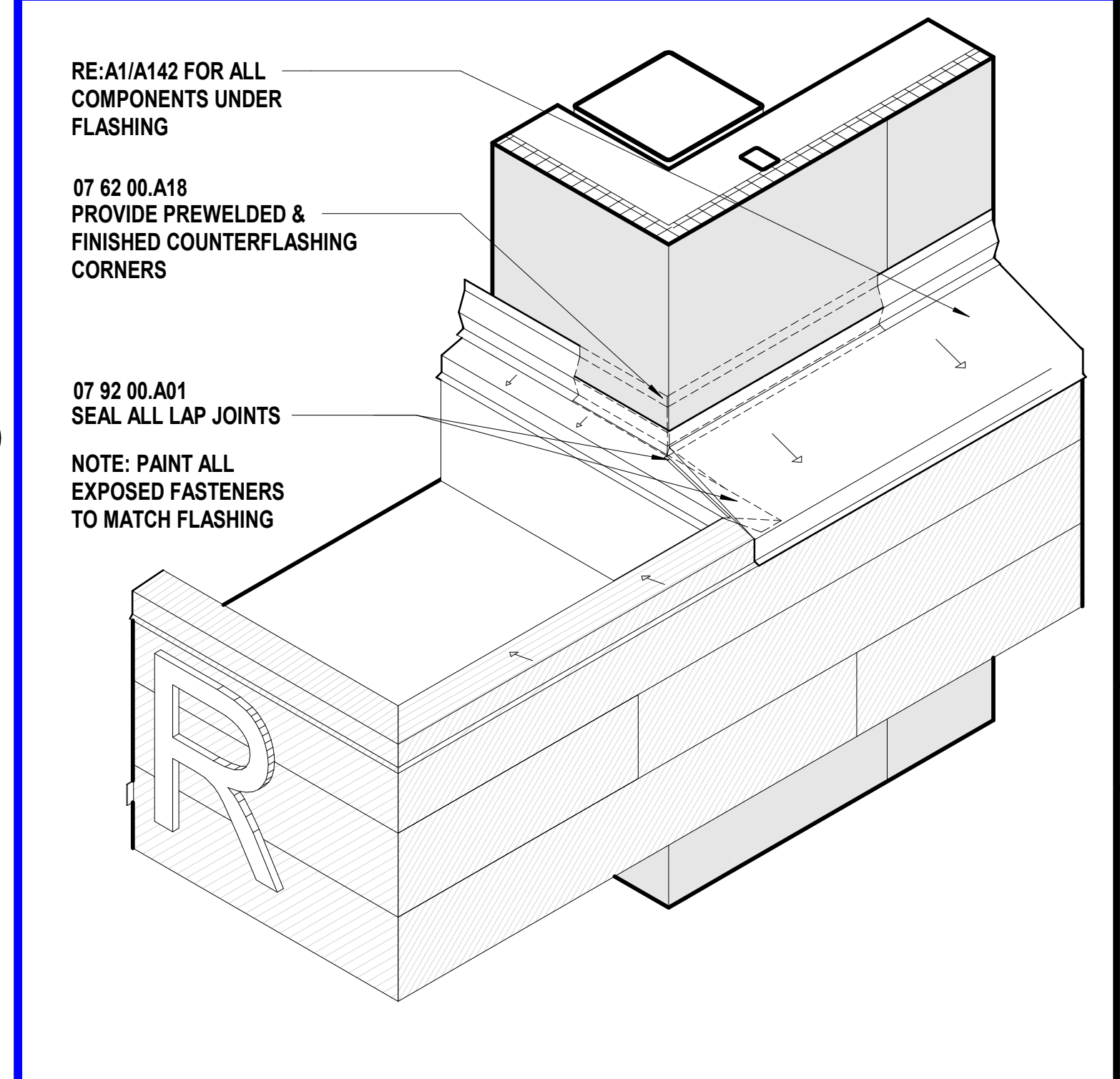
**A1** Scale Roof Detail @



**A6** Scale Roof Detail @ Canopy Drainage



**F13** Scale Roof Detail @ Canopy Flashing



**A13** Scale Roof Detail @ East Canopy Flashing

## SHEET KEYNOTE LEGEND

05 12 00.A03	CHANNEL
05 31 00.A01	ROOF DECK
05 40 00.A01	COLD-FORMED METAL FRAMING
06 10 00.A12	PRESERVATIVE TREATED WOOD BLOCKING/NAILERS
06 10 00.A13	WOOD BLOCKING/NAILERS
06 16 00.A05	CEMENTITIOUS WALL SHEATHING
07 42 13.A03	CONCEALED FASTENER METAL WALL PANELS
07 54 23.A01	ADHERED TPO MEMBRANE ROOFING SYSTEM
07 54 23.A10	BASE FLASHING
07 54 23.A11	VERTICAL WALL FLASHING
07 54 23.A21	TAPERED INSULATION
07 54 23.A25	COVERBOARD
07 62 00.A07	DOWNSPOUTS
07 62 00.A13	COPING
07 62 00.A18	COUNTER FLASHING
07 62 00.A19	COUNTER FLASHING RECEIVER
07 62 00.A36	CLEAT
07 92 00.A01	SEALANT
09 21 16.A01	NON-STRUCTURAL FRAMING
09 29 00.A02	GYPSUM BOARD - TYPE X

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913.317.9590 phone

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Structural Engineer  
State Certificate of Authority # 000442  
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JOB NO: 23021.00

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# A143

## SHEET NOTES

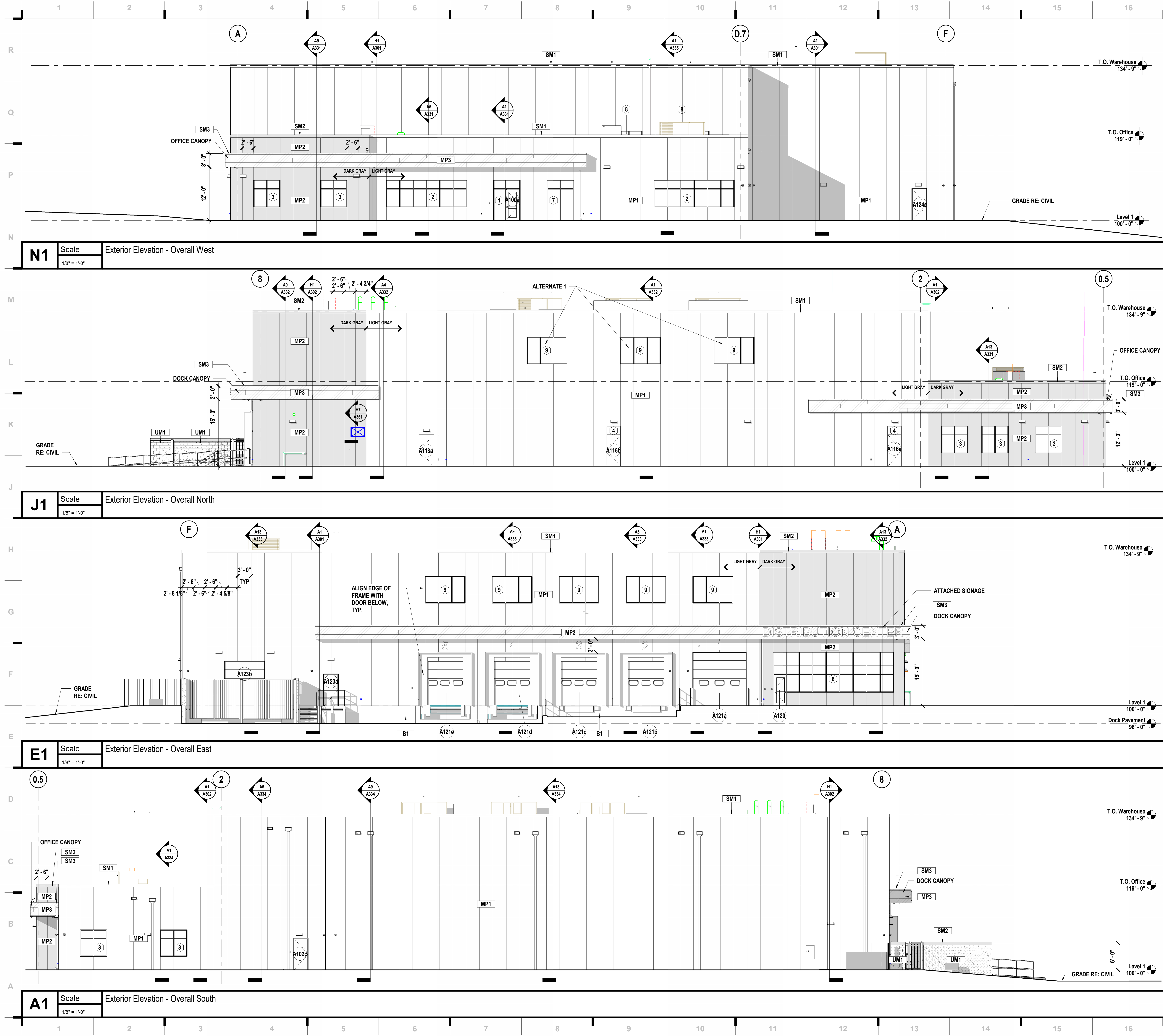
- REFER TO PLUMBING DRAWINGS FOR ROOF DRAIN DETAILS
- REFER TO MECHANICAL DRAWINGS FOR ROOF MOUNTED EQUIPMENT AND CURBS
- REFER TO PLUMBING DRAWINGS FOR EXPOSED GAS PIPING AND SUPPORTS
- REFER TO STRUCTURAL DRAWINGS FOR MECHANICAL SCREEN SUPPORTS
- ALL FLASHING, DOWNSPOUTS AND GUTTERS COLOR TO MATCH ADJACENT METAL PANEL

ROOF DETAILS

Please consider the environment before printing this.



10/9/2023 20:32:15



## SHEET KEYNOTE LEGEND

03 30 00.A01	CAST-IN-PLACE CONCRETE
04 20 00.A04	DECORATIVE CMU SPLIT FACED
07 42 13.A03	CONCEALED FASTENER METAL WALL PANELS
07 42 19.A01	FOAMED-INSULATION-CORE METAL WALL PANELS
07 62 00.A13	COPING

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11827 W 112th St #200  
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913.317.5590 phone

**Bob D. Campbell & Co.**  
Structural Engineer  
State Certificate of Authority # 000442  
4338 Bellevue Ave.  
Kansas City, MO 64111  
816.531.4144 phone  
816.531.8572 fax

**Smith & Boucher Engineers**  
Mech/Elect Engineer  
State Certificate of Authority # EFC-000178  
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Olathe, KS 66061  
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## EXTERIOR MATERIAL LEGEND

<b>B1 = CONCRETE</b>	
03 30 00.A01	CAST-IN-PLACE CONCRETE
	BOD: N/A
	COLOR: N/A
	SIZE/PATTERN: RUBBED FINISH

<b>MP1 = METAL PANEL TYPE 1</b>	
07 42 19.A01	FOAMED-INSULATION-CORE METAL WALL PANELS
	BOD: Centria - Versawall V (Striated)
	COLOR: 9918 Dove Gray
	SIZE/PATTERN: 36" VERTICAL, U.N.O.

<b>MP2 = METAL PANEL TYPE 2</b>	
07 42 19.A01	FOAMED-INSULATION-CORE METAL WALL PANELS
	BOD: Centria - Versawall V (Striated)
	COLOR: 9921 Charcoal Gray
	SIZE/PATTERN: 36" VERTICAL, U.N.O.

<b>MP3 = METAL PANEL TYPE 3</b>	
07 42 13.A03	CONCEALED FASTENER METAL WALL PANELS
	BOD: Centria - CS200
	COLOR: 200 DEEP BLUE SEA
	SIZE/PATTERN: PER ELEV

<b>SM1 = SHEET METAL TYPE 1</b>	
07 62 00.A13	COPING
	BOD: N/A
	COLOR: 9918 DOVE GRAY
	SIZE/PATTERN: PER DETAILS

<b>SM2 = SHEET METAL TYPE 2</b>	
07 62 00.A13	COPING
	BOD: N/A
	COLOR: 9921 CHARCOAL GRAY
	SIZE/PATTERN: PER DETAILS

<b>SM3 = SHEET METAL TYPE 3</b>	
07 62 00.A13	COPING
	BOD: N/A
	COLOR: 200 DEEP BLUE SEA
	SIZE/PATTERN: PER DETAILS

<b>UM1 = UNIT MASONRY TYPE 1</b>	
04 20 00.A04	DECORATIVE CMU SPLIT FACED
	BOD: Capitol Concrete
	COLOR: COAL
	SIZE/PATTERN: SPLIT FACE/ RUNNING BOND

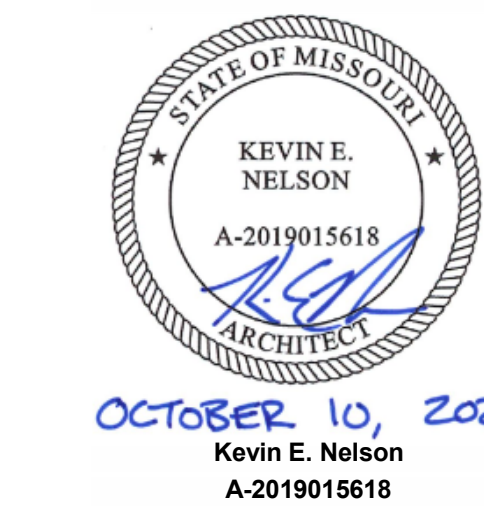
## SHEET NOTES

- REFER TO SHEET G000 FOR SHEET INDEX
- DO NOT SCALE THIS DRAWING
- WALL MOUNTED LIGHT FIXTURES AND OTHER MEP ITEMS ARE SHOWN FOR PLACEMENT ONLY. REFERENCE ELECTRICAL DRAWINGS
- ALL FLASHING, DOWNSPOUTS AND GUTTERS COLOR TO MATCH ADJACENT METAL PANEL
- COPING AT CMU WALLS TO MATCH MP2
- PAINT GAS LINES TO MATCH ADJACENT METAL PANEL/ROOF

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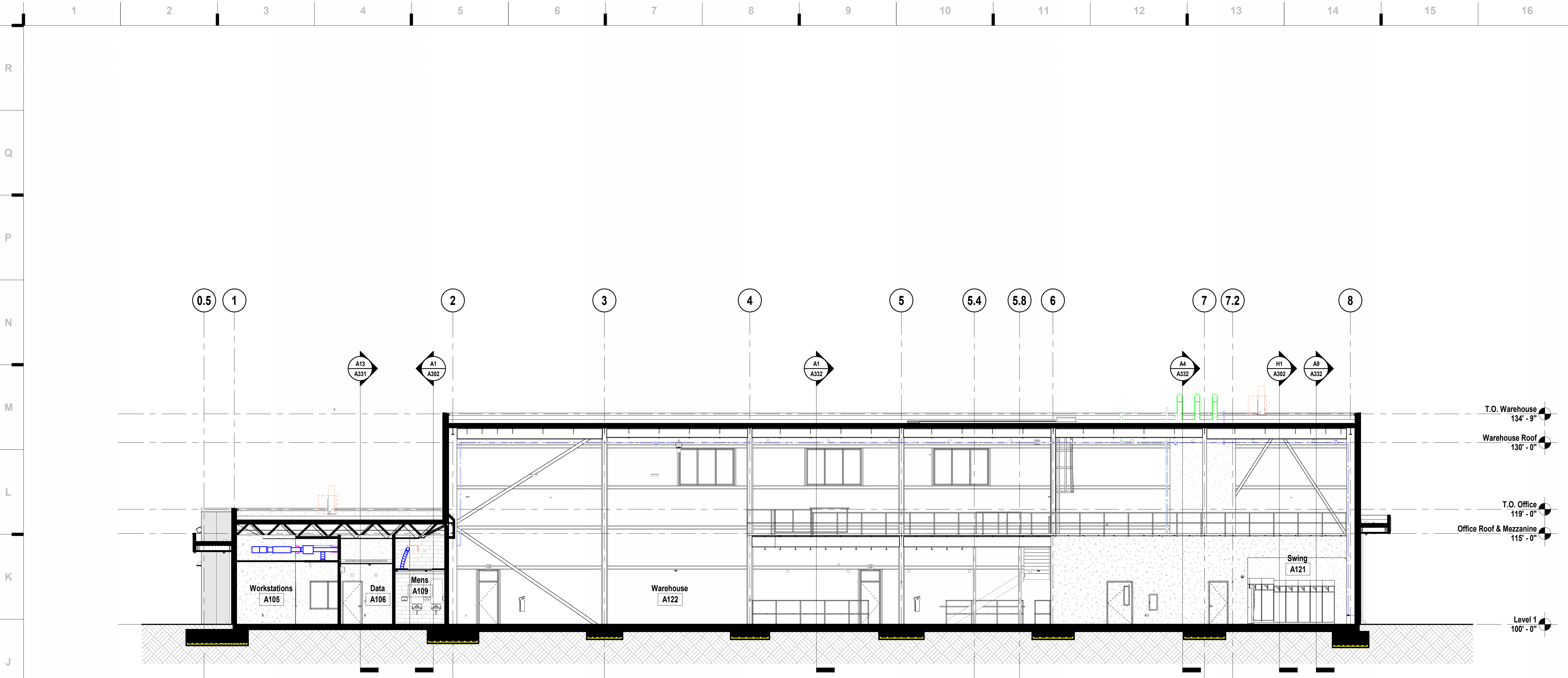
**A201**

EXTERIOR ELEVATIONS - OVERALL

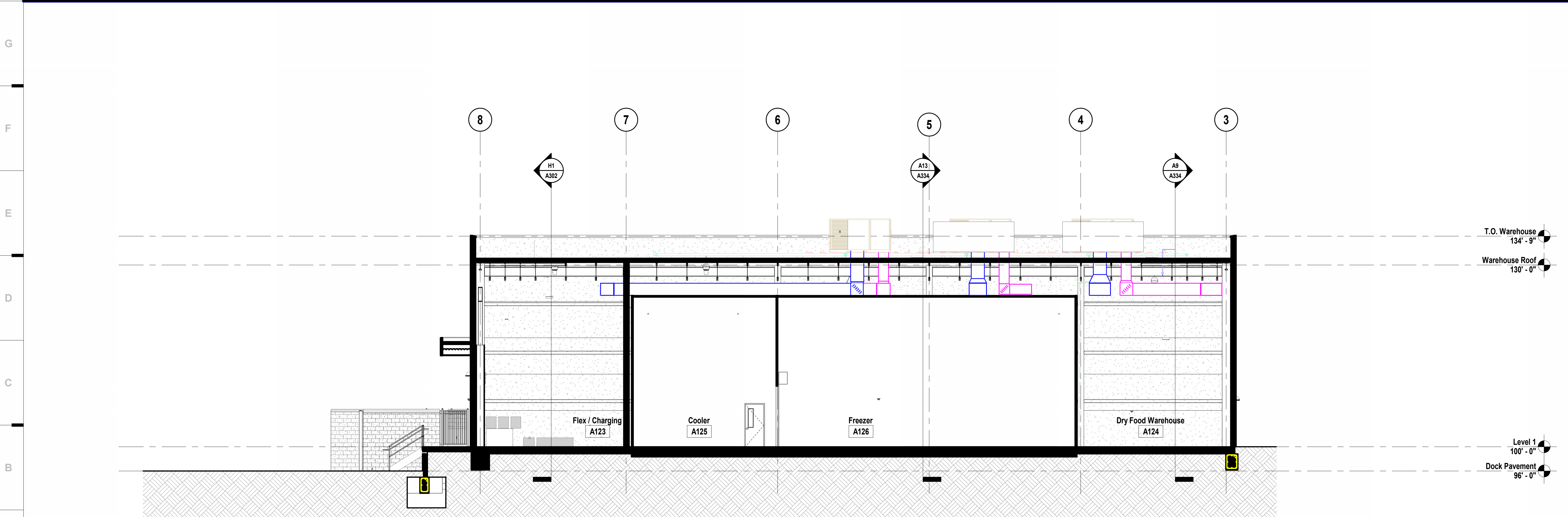
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10/9/2023 10:32:19



**H1** Scale Overall Section - E/W Mezzanine  
1/8" = 1'-0"



**A1** Scale Overall Section - E/W Food Storage & Cooler  
1/8" = 1'-0"

SHEET KEYNOTE LEGEND

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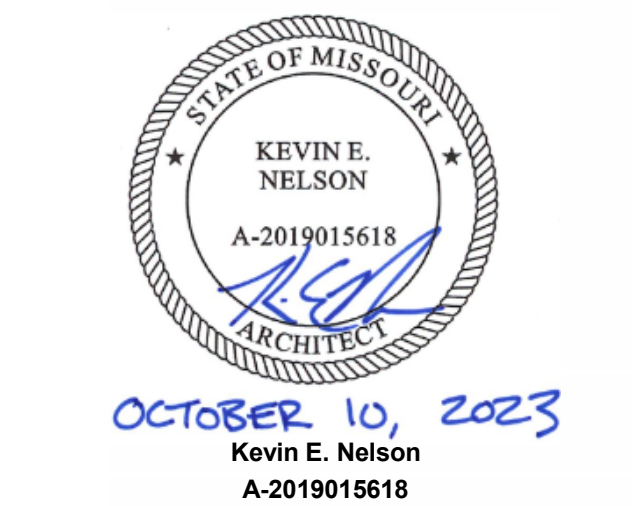
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Structural Engineer  
State Certificate of Authority # 000442  
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Kansas City, MO 64111  
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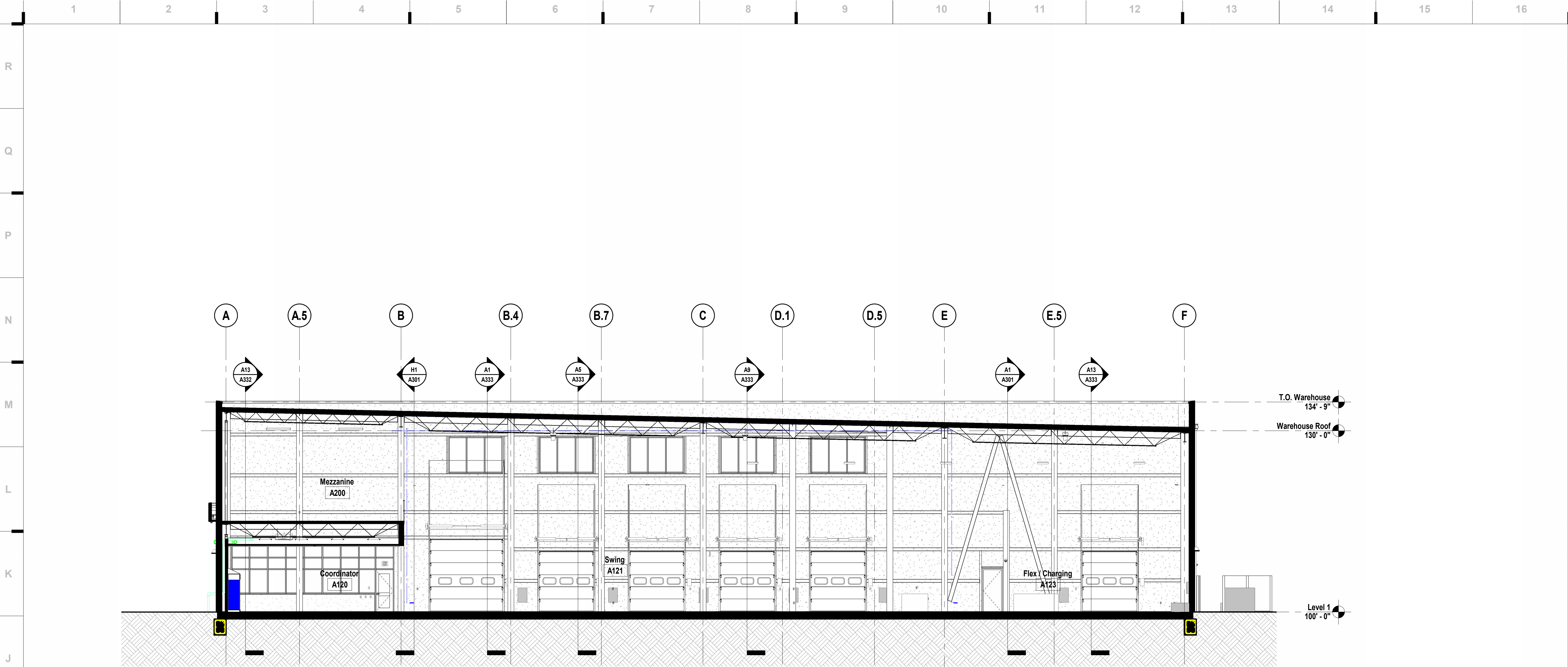


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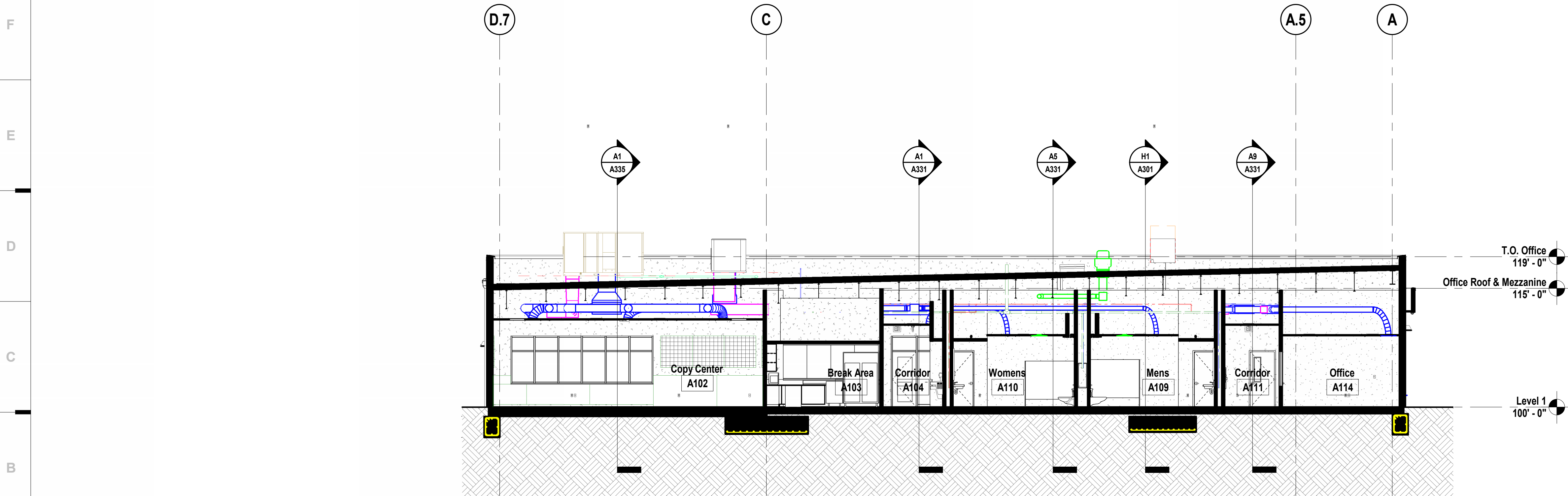
**A301**



10/9/2023 20:32:23



**H1** Scale Overall Section - N/S Docking Area  
1/8" = 1'-0"



**A1** Scale Overall Section - N/S Office Block  
1/8" = 1'-0"

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816.531.4144 phone  
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## SHEET NOTES

- REFER TO SHEET G000 FOR SHEET INDEX
- DO NOT SCALE THIS DRAWING
- REFER TO INTERIOR ELEVATIONS, FOR PLACEMENT OF ALL WALL MOUNTED ITEMS
- WALL MOUNTED LIGHT FIXTURES, GRILLES AND OTHER MEP ITEMS ARE SHOWN FOR PLACEMENT ONLY

**A302**

BUILDING SECTIONS



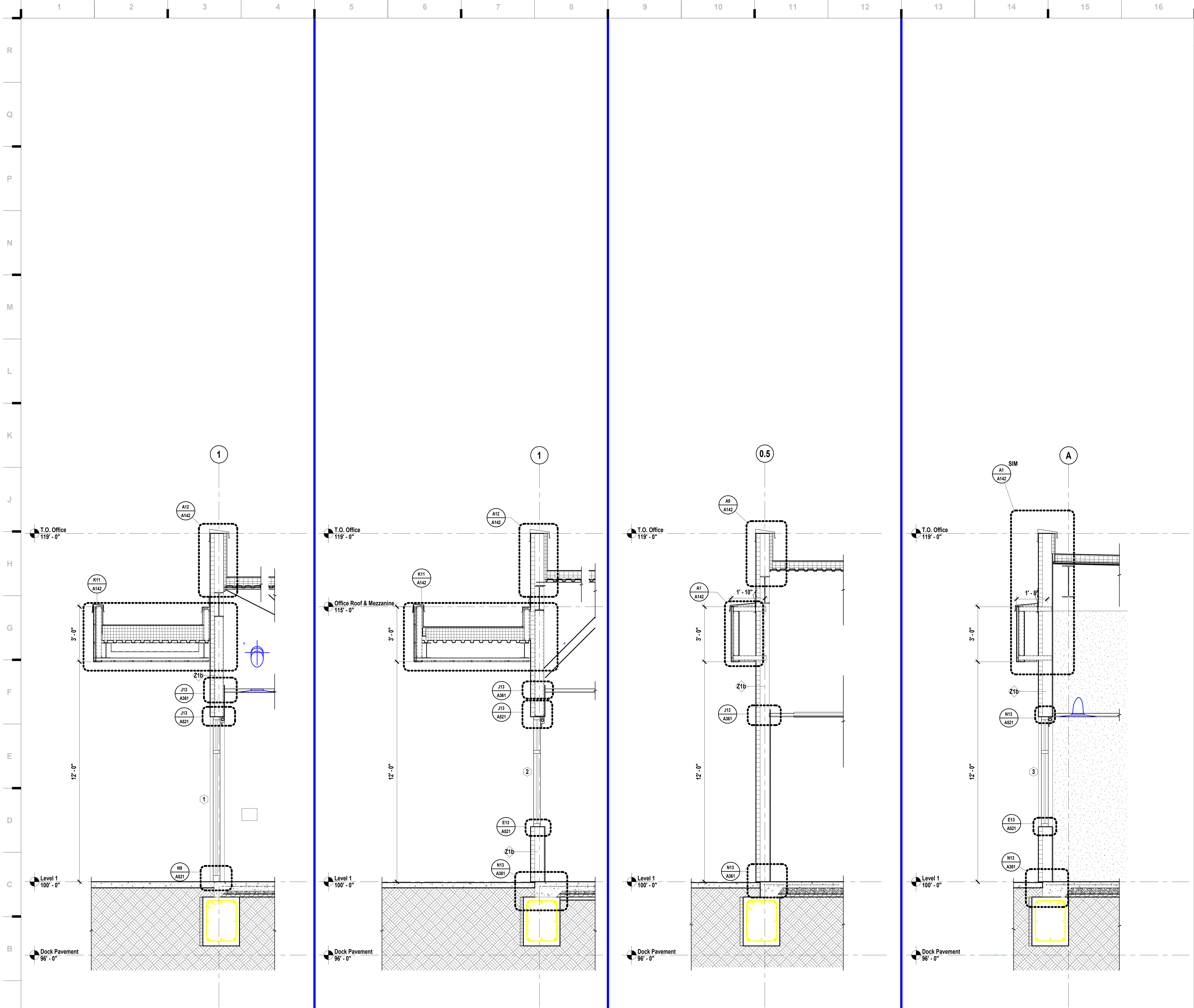
# SHEET NOTES

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1. REFER TO WALL SECTIONS AND EXTERIOR ELEVATIONS FOR WALL HEIGHTS
2. REFER TO EXTERIOR ELEVATIONS FOR DESIGNATION OF EXTERIOR MATERIAL CHANGES AND FINISHES/ COLORS
3. OVERALL WIDTH DIMENSIONS OF WALL TYPES GO TO EITHER FACE OF STUD OR TO FACE OF INTERIOR CMU
4. REFER TO FINISH FLOOR PLAN FOR LOCATIONS WHERE ADDITIONAL WALL PROTECTION IS SHOWN ON THE PLAN BUT NOT IN THE WALL TYPE DESCRIPTION



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Structure # 200603133

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913.317.5590 phone

Bob D. Campbell & Co.  
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State Certificate of Authority # 000442  
4338 Bellevue Ave.  
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816.531.4144 phone  
816.531.8572 fax

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REVISIONS:

#	Description	Date
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Kevin E. Nelson  
A-2019015618

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DATE: 10.10.2023

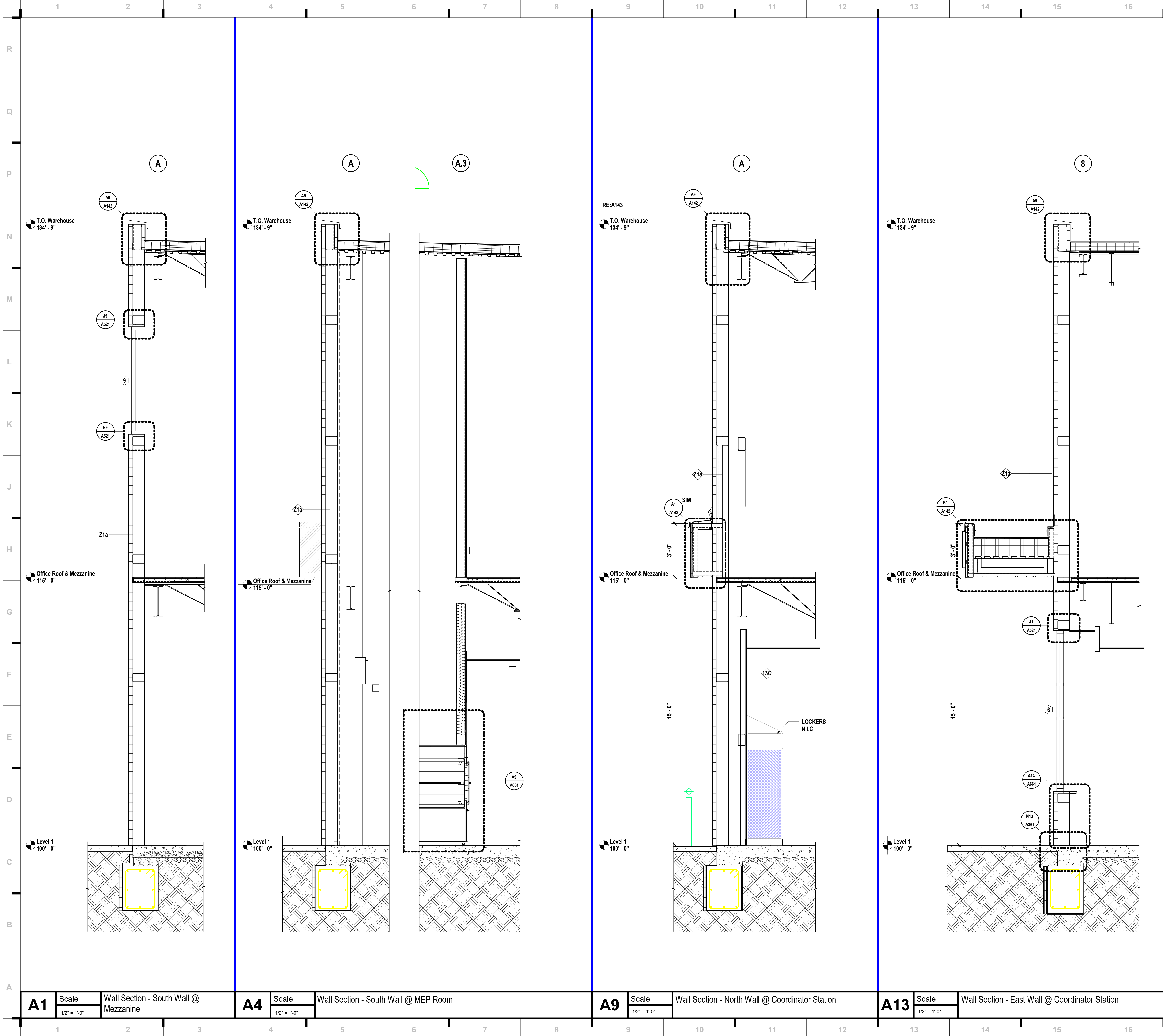
**A331**

WALL SECTIONS

CONSTRUCTION DOCUMENTS



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Overland Park, KS 66210  
913.317.5590 phone

Bob D. Campbell & Co.  
Structural Engineer  
State Certificate of Authority # 000442  
4338 Bellevue Ave.  
Kansas City, MO 64111  
816.531.4144 phone  
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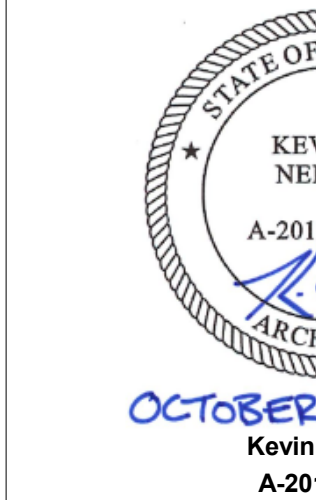
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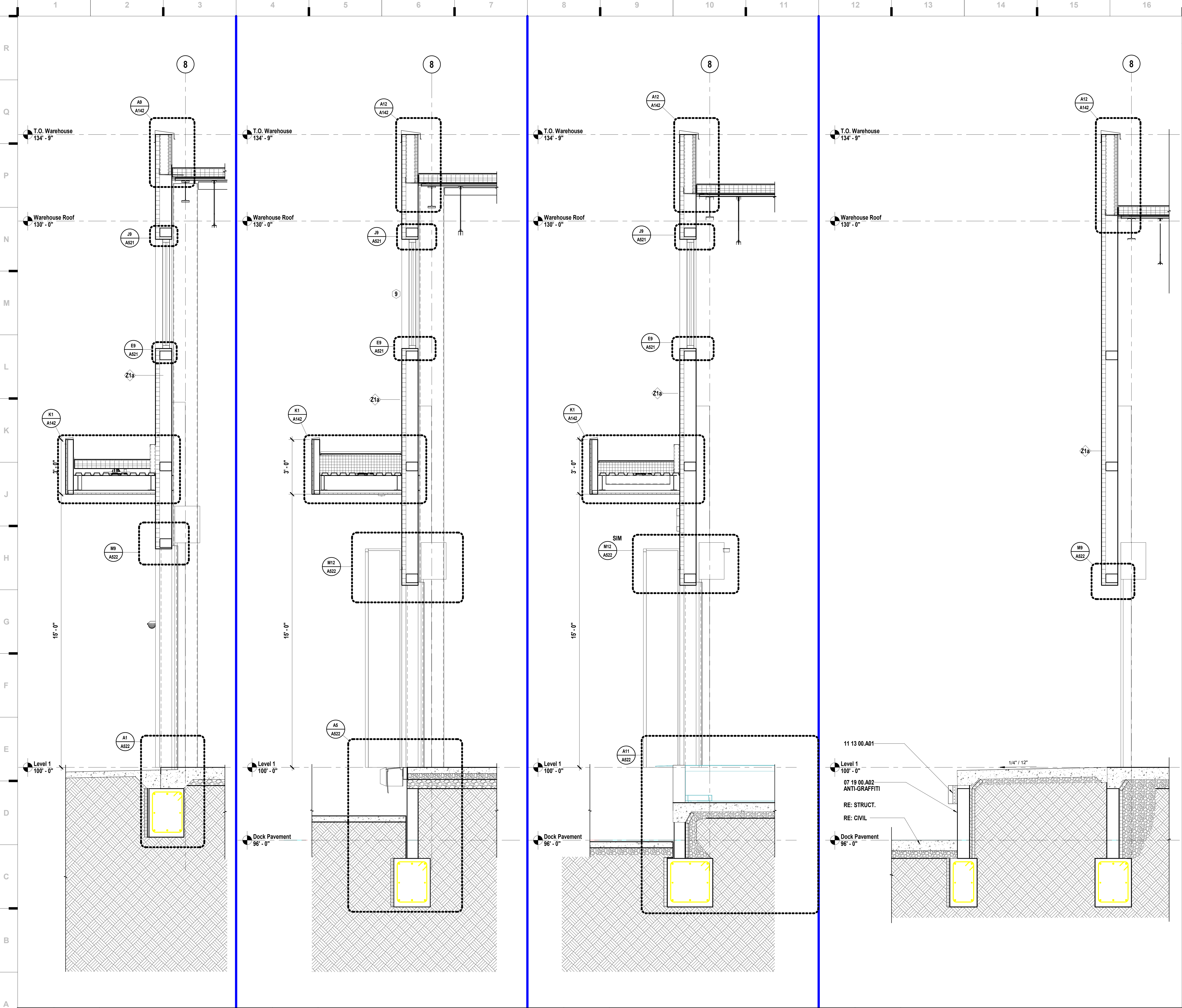
A332

WALL SECTIONS

CONSTRUCTION  
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07 19 00.A02 ANTI-GRAFFITI COATING  
11 13 00.A01 DOCK BUMPERS

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Landscaping #2006027139  
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11827 W 112th St #200  
Overland Park, KS 66210  
913.317.5590 phone

Bob D. Campbell & Co.  
Structural Engineer  
State Certificate of Authority # 000442  
4338 Bellevue Ave.  
Kansas City, MO 64111  
816.531.4144 phone  
816.531.8572 fax

Smith & Boucher Engineers  
Mech/Elect Engineer  
State Certificate of Authority # EFC-000178  
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Olathe, KS 66061  
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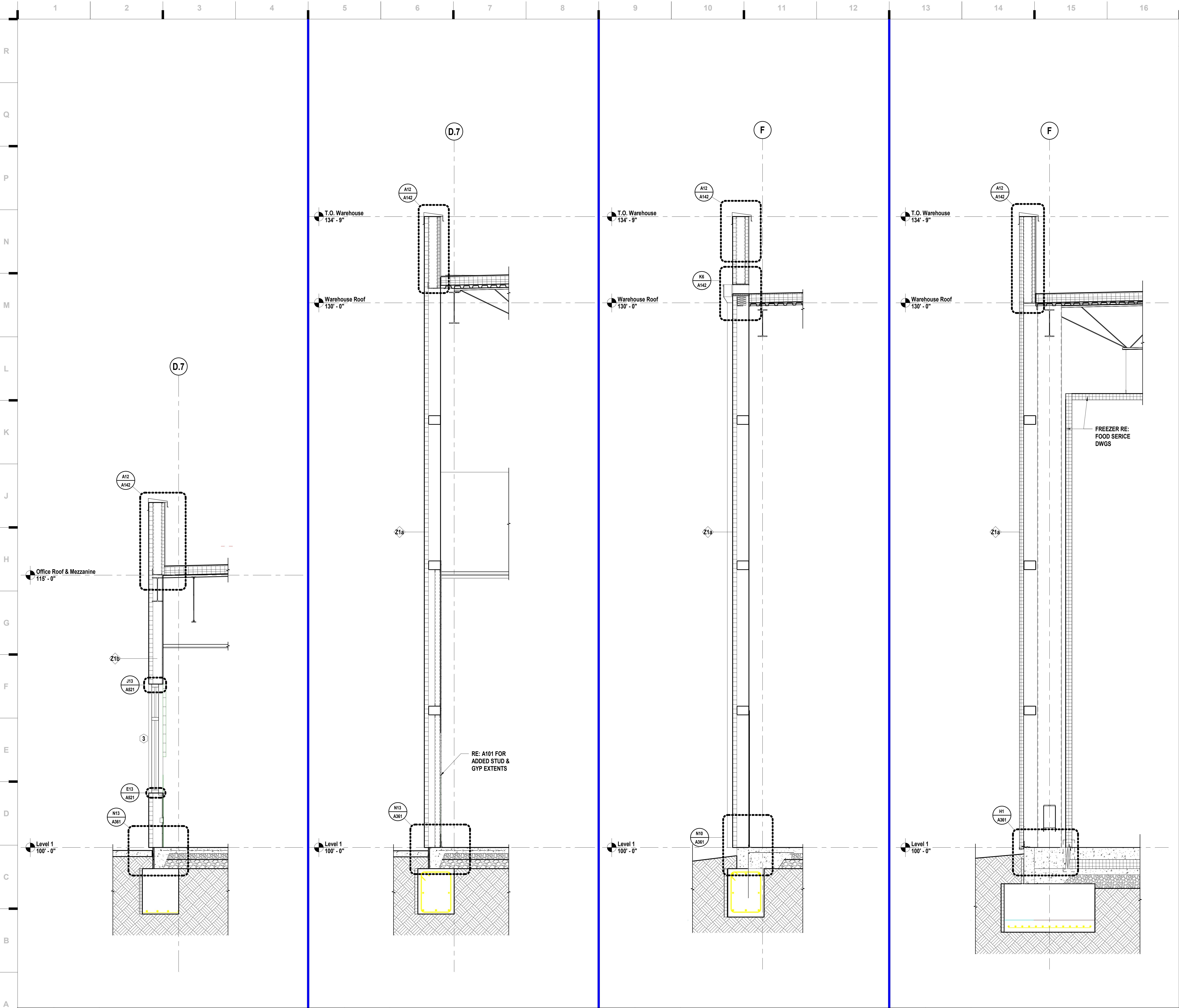
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11827 W 112th St #200  
Overland Park, KS 66210  
913.317.5590 phone

**Bob D. Campbell & Co.**  
Structural Engineer  
State Certificate of Authority # 000442  
4338 Bellevue Ave.  
Kansas City, MO 64111  
816.531.4144 phone  
816.531.8572 fax

**Smith & Boucher Engineers**  
Mech/Elect Engineer  
State Certificate of Authority # EFC-000178  
25618 W 103rd St  
Olathe, KS 66061  
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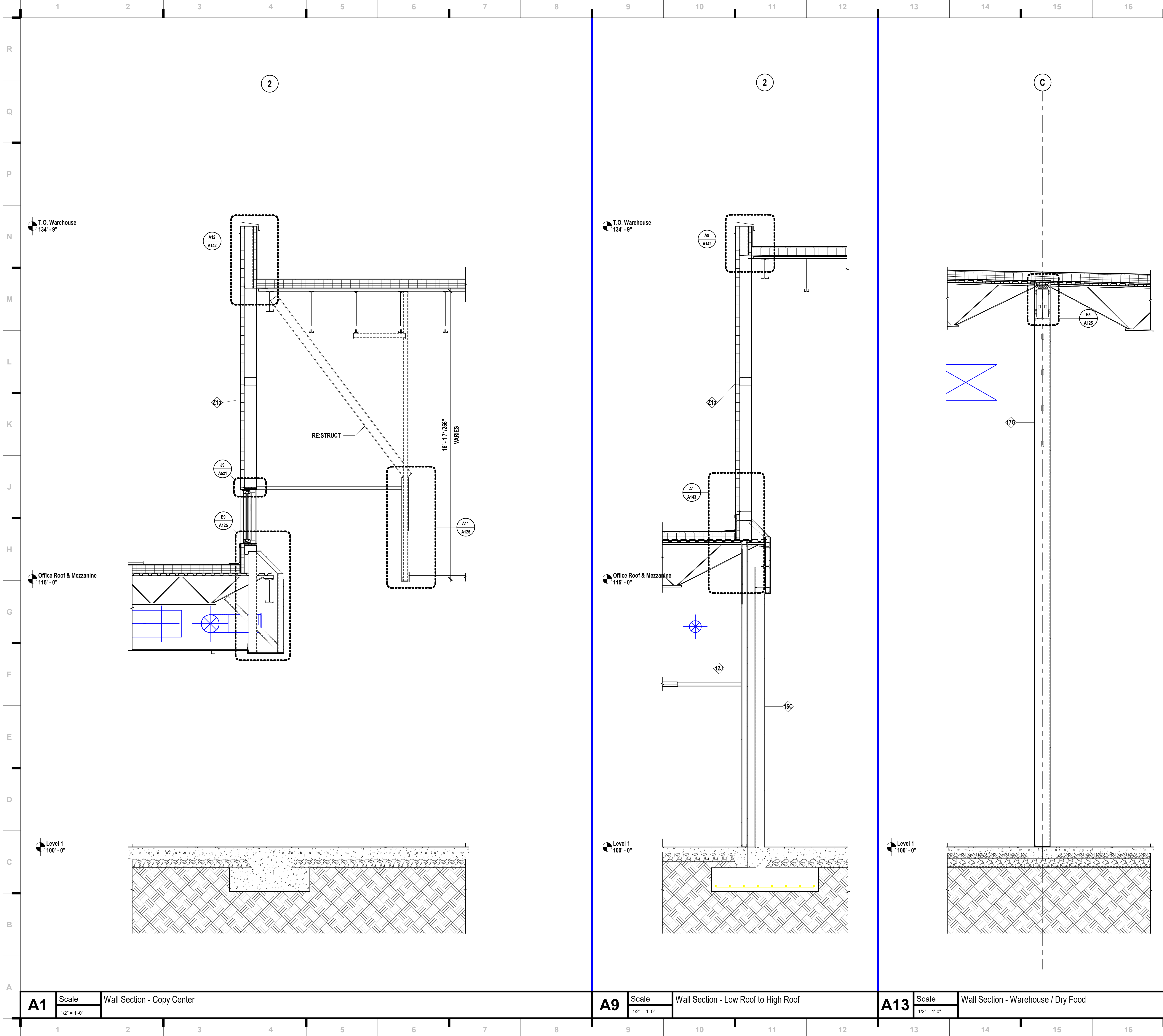
WALL SECTIONS

CONSTRUCTION  
DOCUMENTS

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Civil Engineer  
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Landscaping #2006027139  
Surveying #2006027138  
11827 W 112th St #200  
Overland Park, KS 66210  
913.317.5590 phone

**Bob D. Campbell & Co.**  
Structural Engineer  
State Certificate of Authority # 000442  
4338 Belleview Ave.  
Kansas City, MO 64111  
816.531.4144 phone  
816.531.8572 fax

**Smith & Boucher Engineers**  
Mech/Elect Engineer  
State Certificate of Authority # EFC-000178  
25618 W 103rd St  
Olathe, KS 66061  
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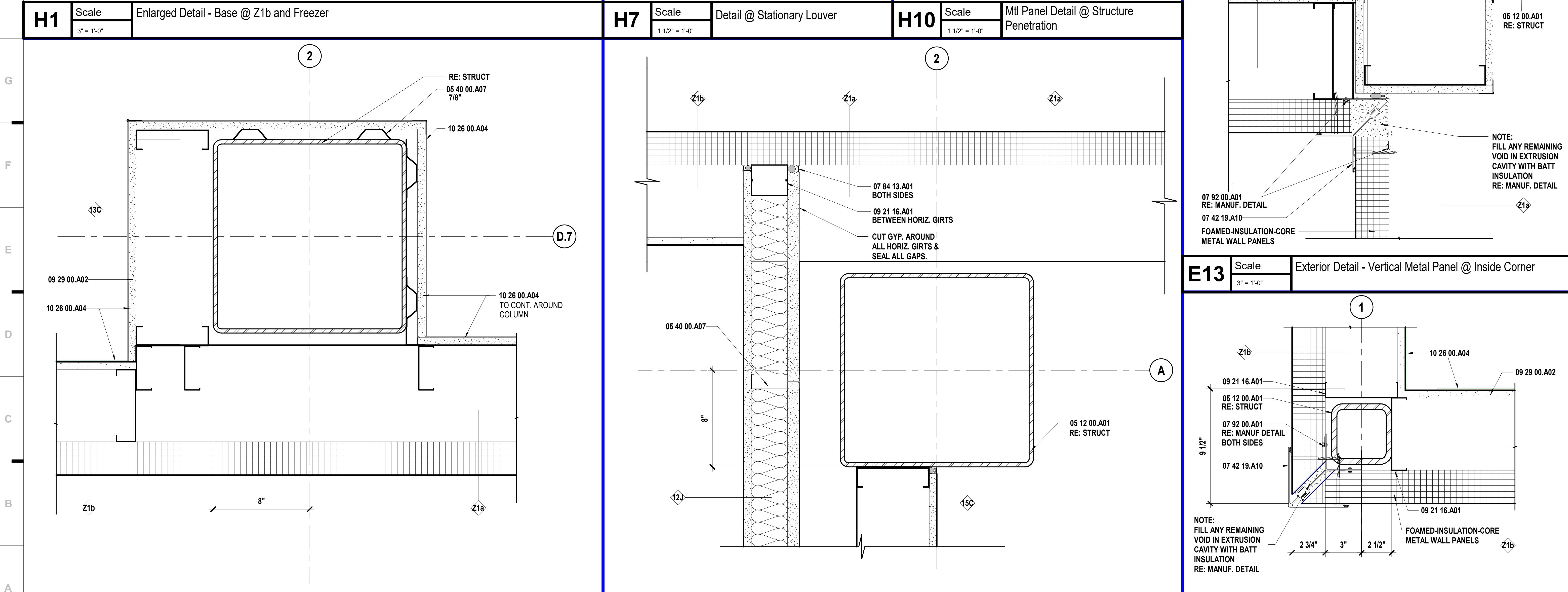
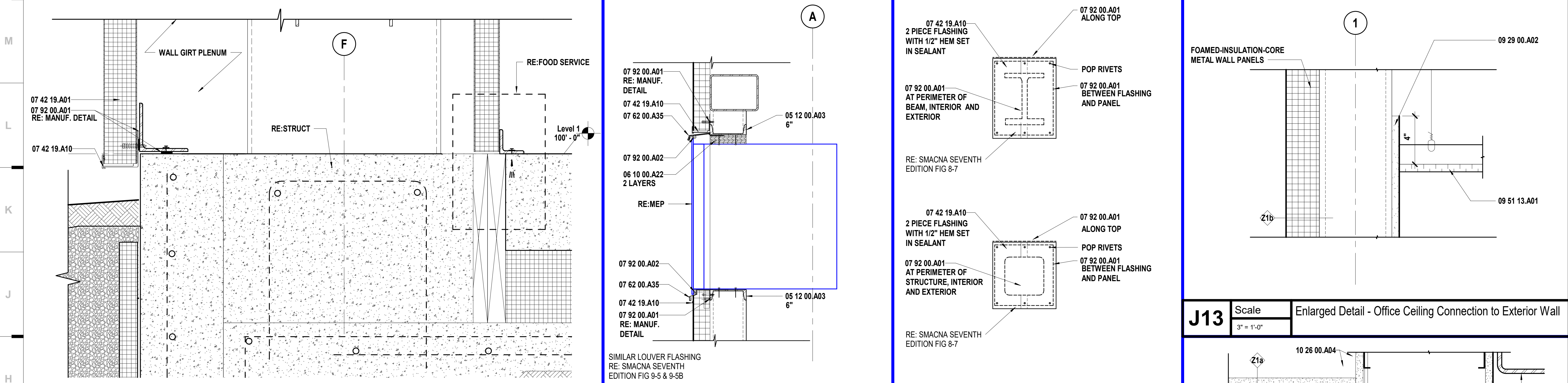
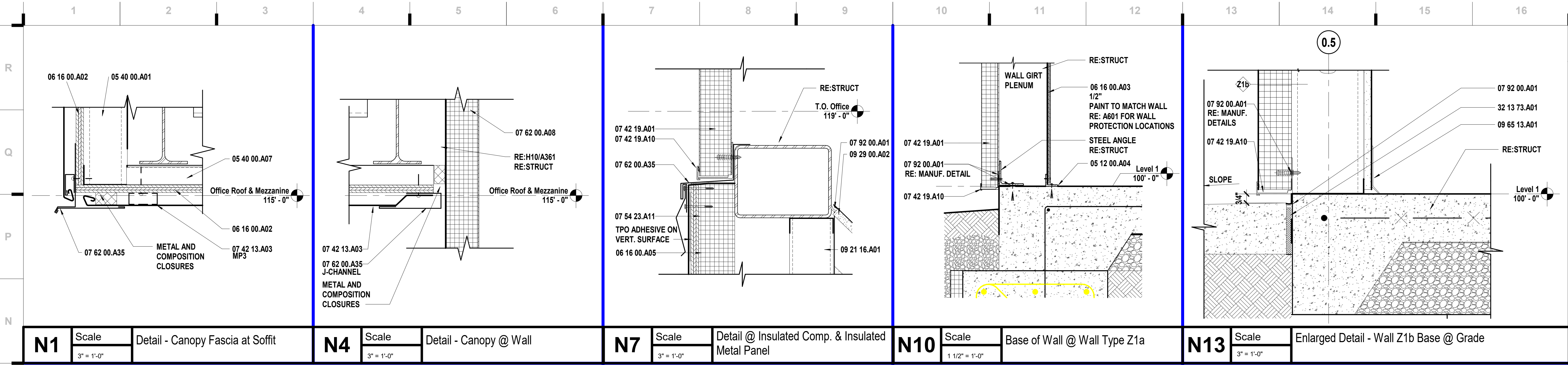
**A335**

WALL SECTIONS

CONSTRUCTION  
DOCUMENTS

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SHEET KEYNOTE LEGEND	
05 12 00.A01	STRUCTURAL STEEL
05 12 00.A03	CHANNEL
05 12 00.A04	ANGLE
05 40 00.A01	COLD-FORMED METAL FRAMING
05 40 00.A07	MISCELLANEOUS FRAMING/FURRING
06 10 00.A22	PRESERVATIVE TREATED PLYWOOD BLOCKING
06 16 00.A02	FIRE-RETARDANT TREATED PLYWOOD
06 16 00.A03	PLYWOOD WALL SHEATHING
07 42 13.A03	CEMENTITIOUS WALL SHEATHING
07 42 19.A01	FOAMED-INSULATION-CORE METAL WALL PANELS
07 42 19.A10	FLASHING AND TRIM
07 54 23.A11	VERTICAL WALL FLASHING
07 62 00.A08	SCUPPERS
07 62 00.A35	PRE-FINISHED MISC METAL FLASHING
07 84 13.A01	FIRESTOPPING
07 92 00.A01	SEALANT
07 92 00.A02	SEALANT W/BACKER ROD
09 21 16.A01	NON-STRUCTURAL FRAMING
09 29 00.A02	GYPSUM BOARD - TYPE X
09 51 13.A01	ACOUSTICAL CEILING PANELS
09 65 13.A01	RESILIENT BASE
10 26 00.A04	IMPACT-RESISTANT WALL COVERINGS
32 13 73.A01	EXPANSION/ISOLATION JOINT W/SEALANT

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Civil Engineer  
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Landscaping #2000627139  
Surveying #2000627138  
11827 W 112th St #200  
Overland Park, KS 66210  
913.317.5590 phone

Bob D. Campbell & Co.  
Structural Engineer  
State Certificate of Authority # 000442  
4338 Bellevue Ave.  
Kansas City, MO 64111  
816.531.4144 phone  
816.531.8572 fax

Smith & Boucher Engineers  
Mech/Elect Engineer  
State Certificate of Authority # EFC-000178  
25618 W 103rd St  
Olathe, KS 66061  
913.345.2127 phone

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OCTOBER 10, 2023  
Kevin E. Nelson  
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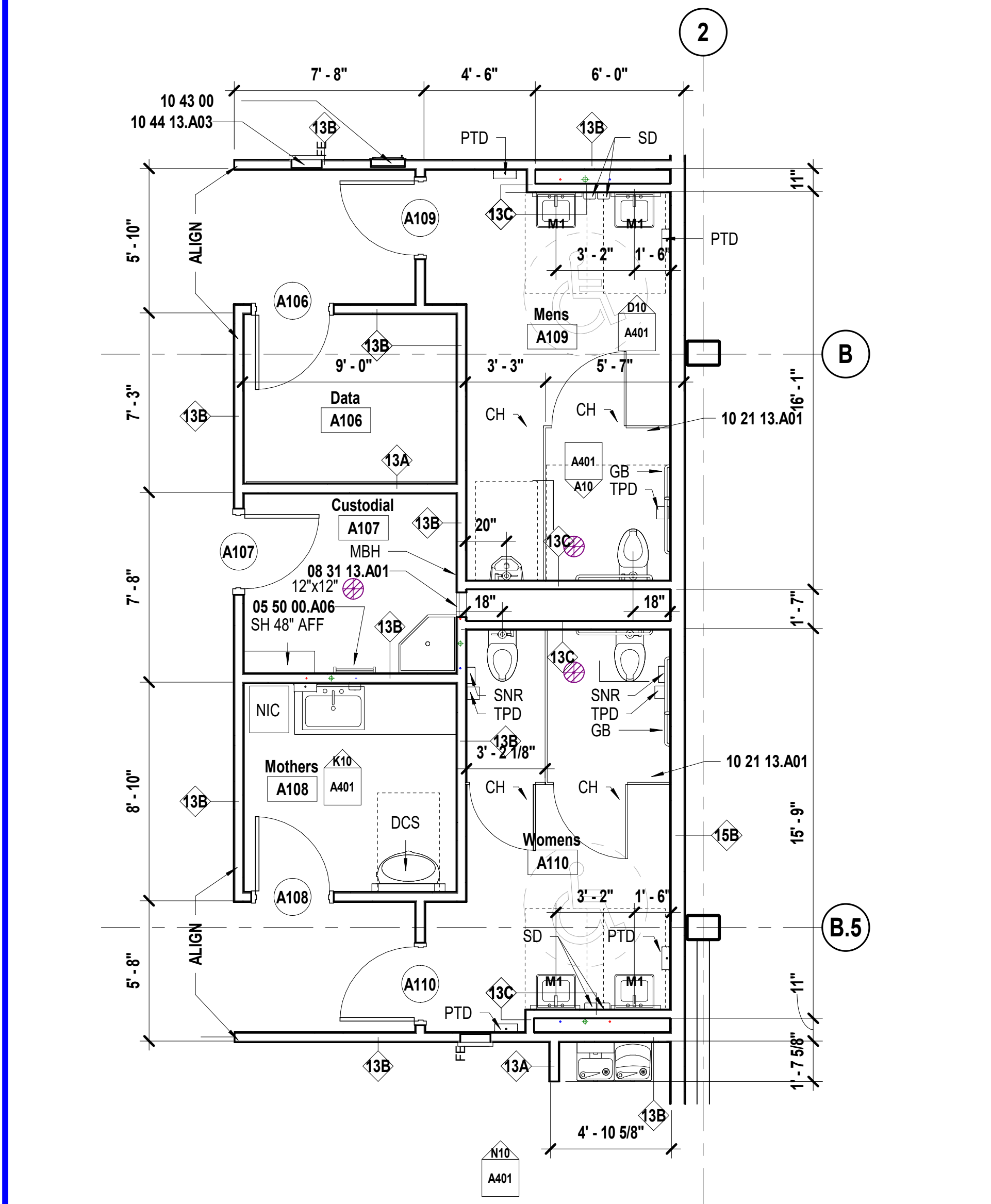
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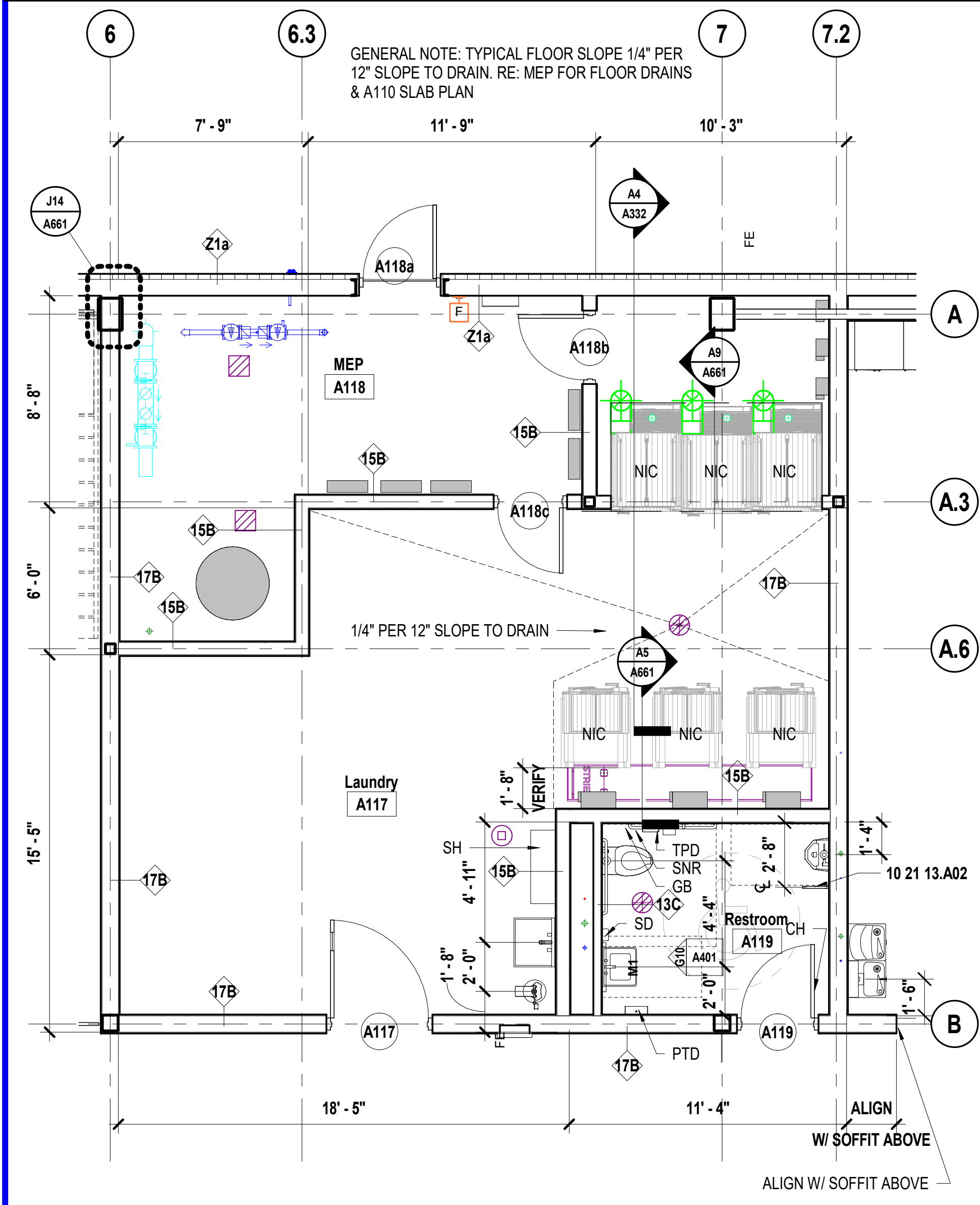
A361

EXTERIOR DETAILS

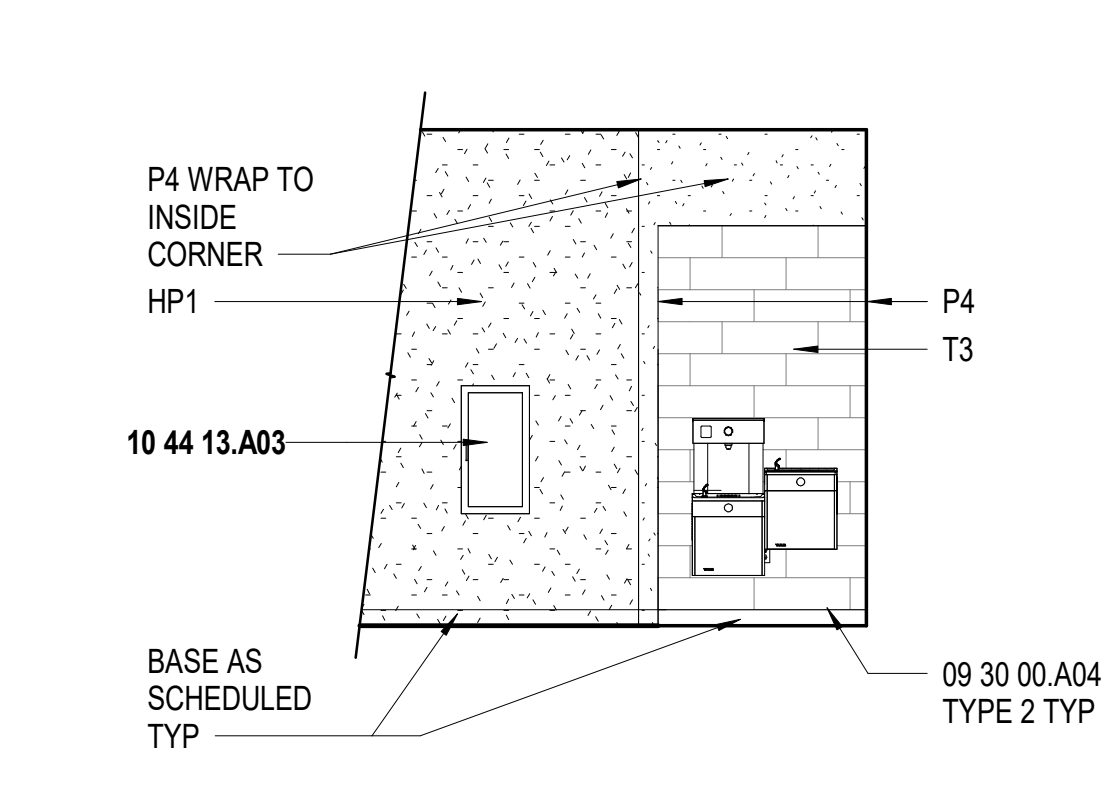




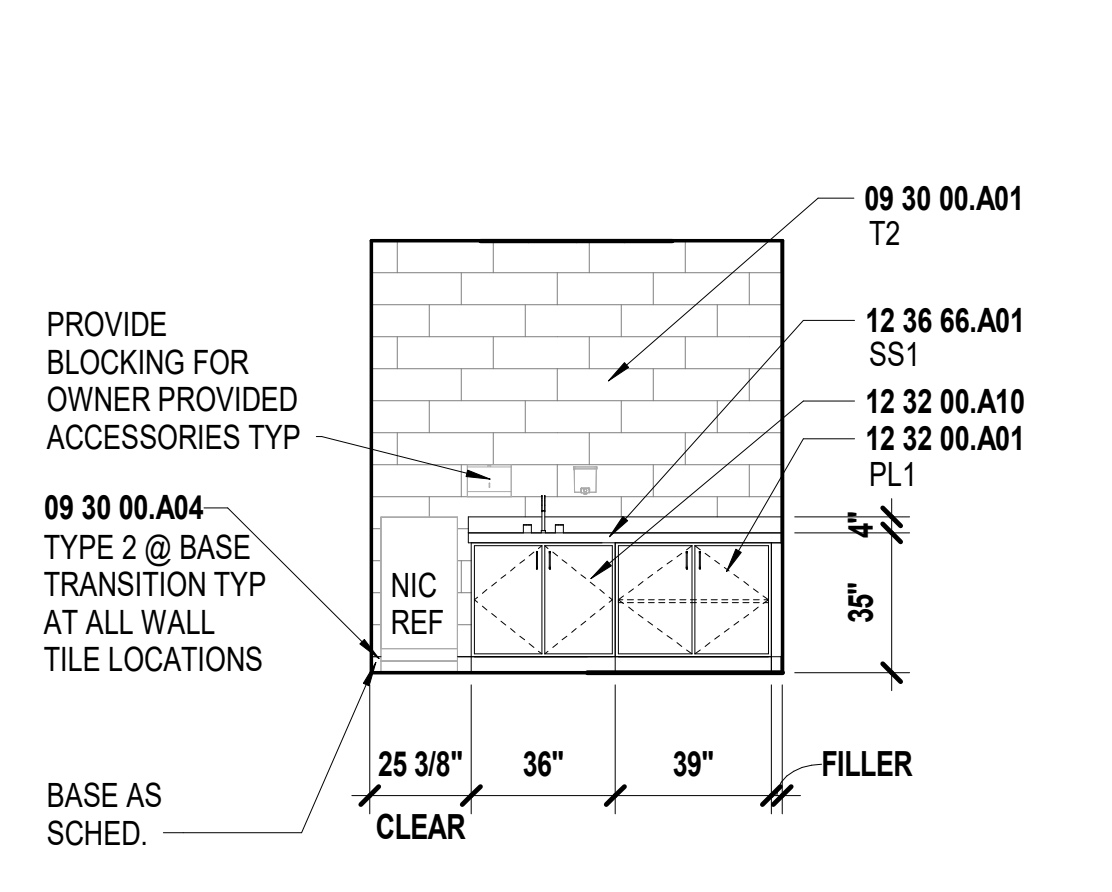
**H5** Scale 1/4" = 1'-0" Enlarged Floor Plan - Office Restrooms



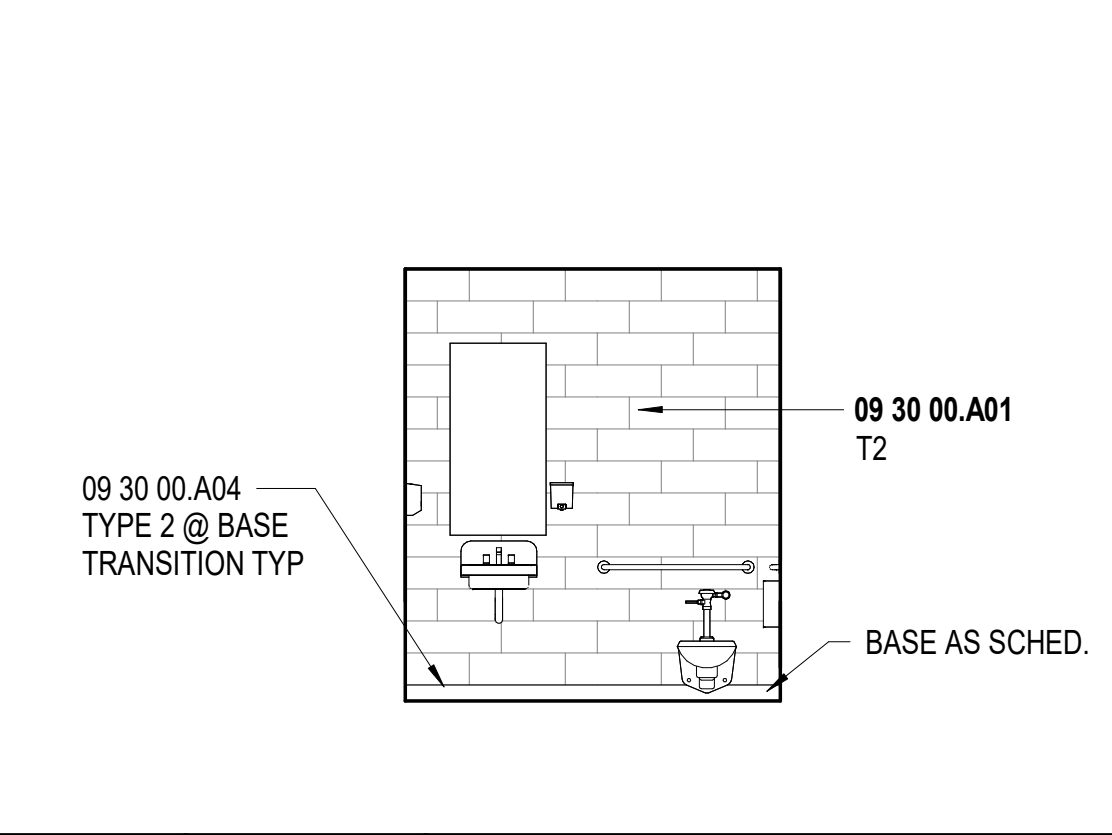
**A5** Scale 1/4" = 1'-0" Enlarged Floor Plan - Warehouse Restroom



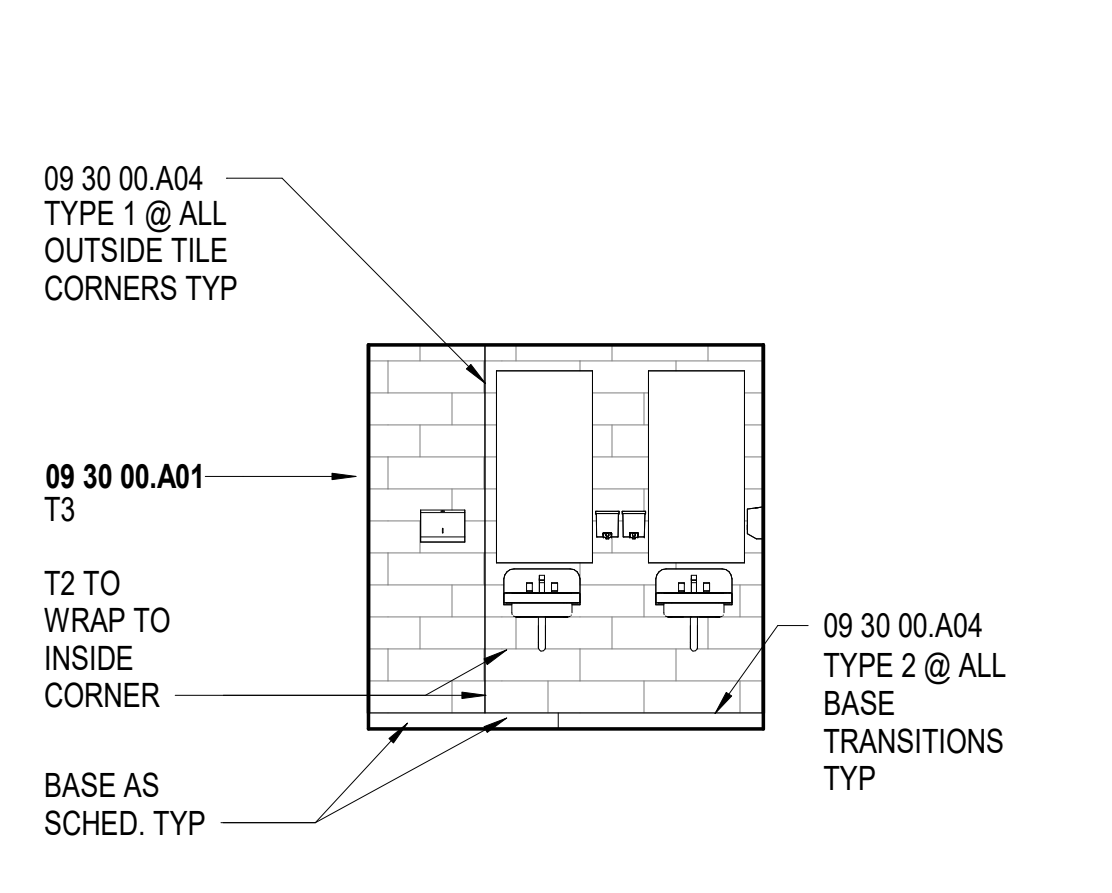
**N10** Scale 1/4" = 1'-0" Interior Elev - A104 Corridor - N



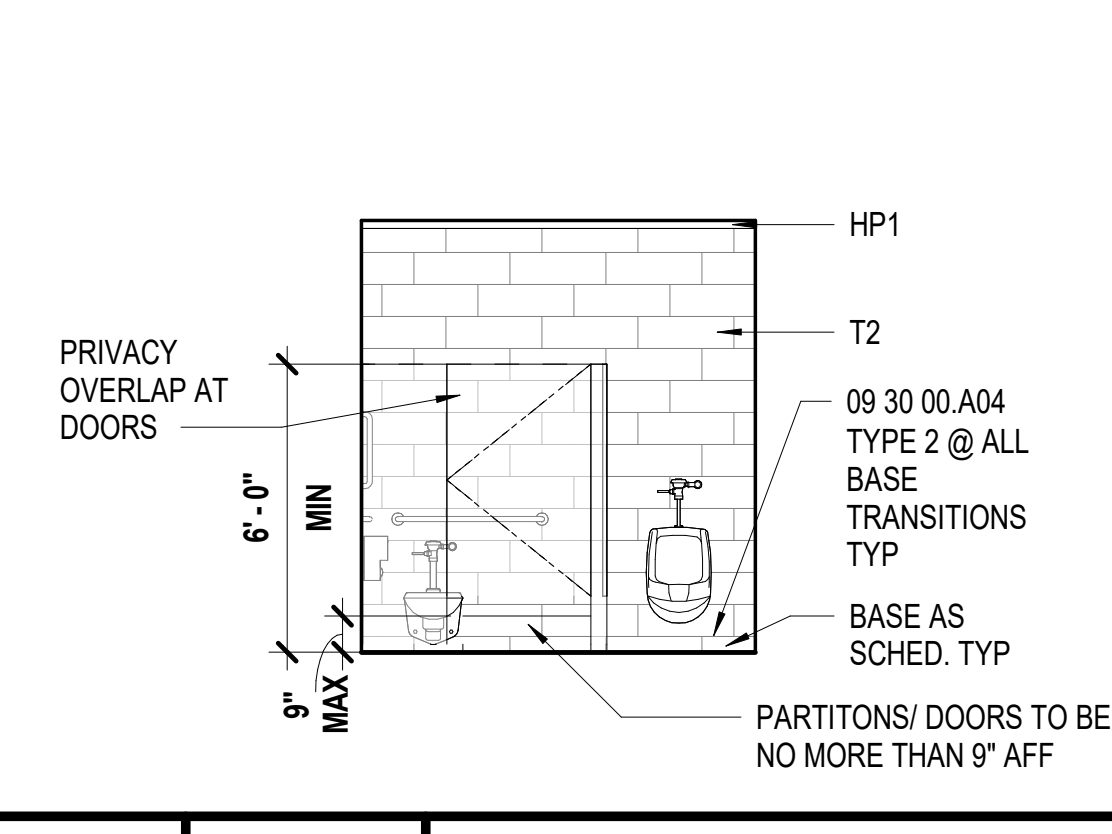
**K10** Scale 1/4" = 1'-0" Interior Elev - A108 Mothers Rm - N



**G10** Scale 1/4" = 1'-0" Interior Elev - Restroom 117 W



**D10** Scale 1/4" = 1'-0" Interior Elev - Restroom 109 N



**A10** Scale 1/4" = 1'-0" Interior Elev - Restroom 109 S

**TOILET, BATH AND LAUNDRY ACCESSORY LEGEND**

TAG	ACCESSORY	KEYNOTE	RESPONSIBILITY
TTD	TOILET TISSUE DISPENSER	10 28 00.A01	OFCI
PTD	PAPER TOWEL DISPENSER	10 28 00.A02	OFCI
	WASTE RECEPTACLE	10 28 00.A03	OFCI
	COMBINATION TOWEL DISPENSER / WASTE RECEPTACLE	10 28 00.A04	OFCI
SD	SOAP DISPENSER	10 28 00.A05	OFCI
GB	GRAB BARS	10 28 00.A06	CFCI
VGB	VERTICAL GRAB BAR	10 28 00.A06	CFCI
	SANITARY NAPKIN DISPENSER	10 28 00.A07	OFCI
SNR	SANITARY NAPKIN RECEPTOR	10 28 00.A08	OFCI
	SEAT COVER DISPENSER	10 28 00.A09	OFCI
MI	MIRROR - SINGLE	10 28 00.A10	CFCI
	MIRROR - DOUBLE WIDTH	10 28 00.A10	CFCI
	MIRROR - FULL HEIGHT	10 28 00.A10	CFCI
	SHOWER CURTAIN	10 28 00.A11	CFCI
	FOLDING SHOWER SEAT	10 28 00.A12	OFCI
	SOAP DISH	10 28 00.A13	OFCI
	ROBE HOOK	10 28 00.A14	OFCI
CH	COAT HOOK	10 28 00.A15	CFCI
	TOWEL STRIP	10 28 00.A16	OFCI
	SPECIMEN PASS-THROUGH	10 28 00.A17	OFCI
	BEDPAN AND URINAL CABINET	10 28 00.A18	OFCI
	WARM AIR DRYER	10 28 00.A19	OFCI
DCS	DIAPER CHANGING STATION	10 28 00.A20	CFCI
	UNDER LAVATORY GUARD	10 28 00.A21	OFCI
SH	UTILITY SHELF	10 28 00.A22	CFCI
MBH	MOP AND BROOM HOLDER	10 28 00.A23	CFCI

NOTES: TAGS ABOVE WITH A "C" PREFIX (IE CGB) DENOTE CHILD MOUNTING HEIGHTS  
CF = CONTRACTOR FURNISH  
CI = CONTRACTOR INSTALL  
OF = OWNER FURNISH  
OI = OWNER INSTALL

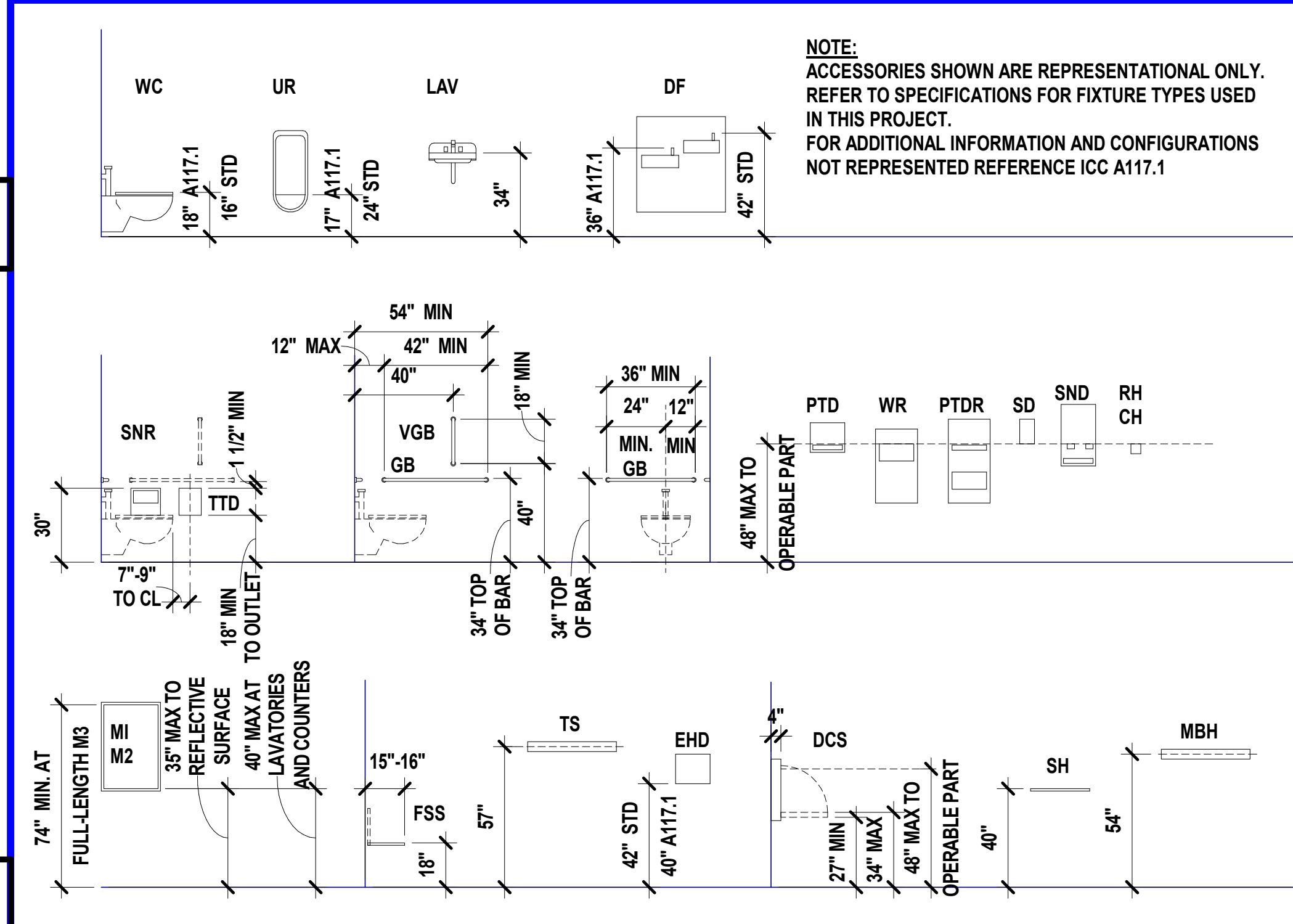
**SHEET KEYNOTE LEGEND**

05 50 00.A06	METAL LADDER
08 31 13.A01	ACCESS DOOR ASSEMBLY
09 30 00.A01	TILE
09 30 00.A04	METAL EDGE STRIPS
10 21 13.A01	TOILET COMPARTMENTS
10 21 13.A02	URNAL SCREENS
10 43 00	EMERGENCY AID SPECIALTIES
10 44 13.A03	SEMI-RECESSED STEEL CABINET
12 32 00.A01	BASE CABINET
12 32 00.A10	SINK BASE
12 36 66.A01	SOLID SURFACE COUNTERTOP

**SHEET NOTES**

- REFER TO SHEET G000 FOR SHEET INDEX
- DO NOT SCALE THIS DRAWING
- INTERIOR DIMENSIONS ARE TO THE FOLLOWING, UNLESS NOTED OTHERWISE:
  - A. TO FACE OF STUD
  - B. TO FACE OF MASONRY UNIT
  - C. TO FACE OF DOOR AND WINDOW ROUGH OPENINGS
- REFER TO INTERIOR ELEVATIONS, THIS SHEET, FOR PLACEMENT OF ALL WALL MOUNTED/RECESSED ITEMS
- COORDINATE LOCATIONS WHERE BACKING REQUIRED FOR TOILET ACCESSORIES

**FIXTURE AND ACCESSORY MOUNTING HEIGHTS**



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Landscaping #2006027139  
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11827 W 112th St #200  
Overland Park, KS 66210  
913.317.5590 phone

**Bob D. Campbell & Co.**  
Structural Engineer  
State Certificate of Authority # 000442  
4338 Bellevue Ave.  
Kansas City, MO 64111  
816.531.4144 phone  
816.531.8572 fax

**Smith & Boucher Engineers**  
Mech/Elect Engineer  
State Certificate of Authority # EFC-000178  
25618 W 103rd St  
Olathe, KS 66061  
913.345.2127 phone

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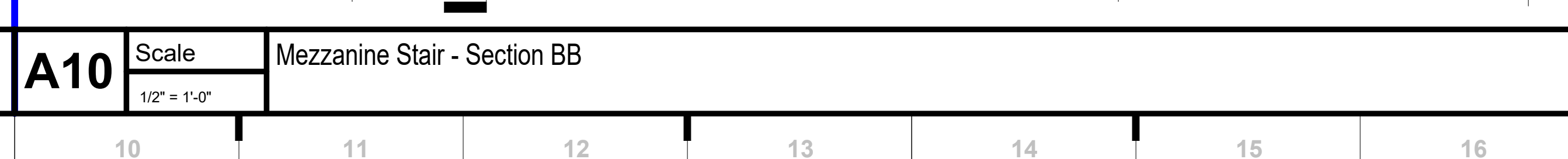
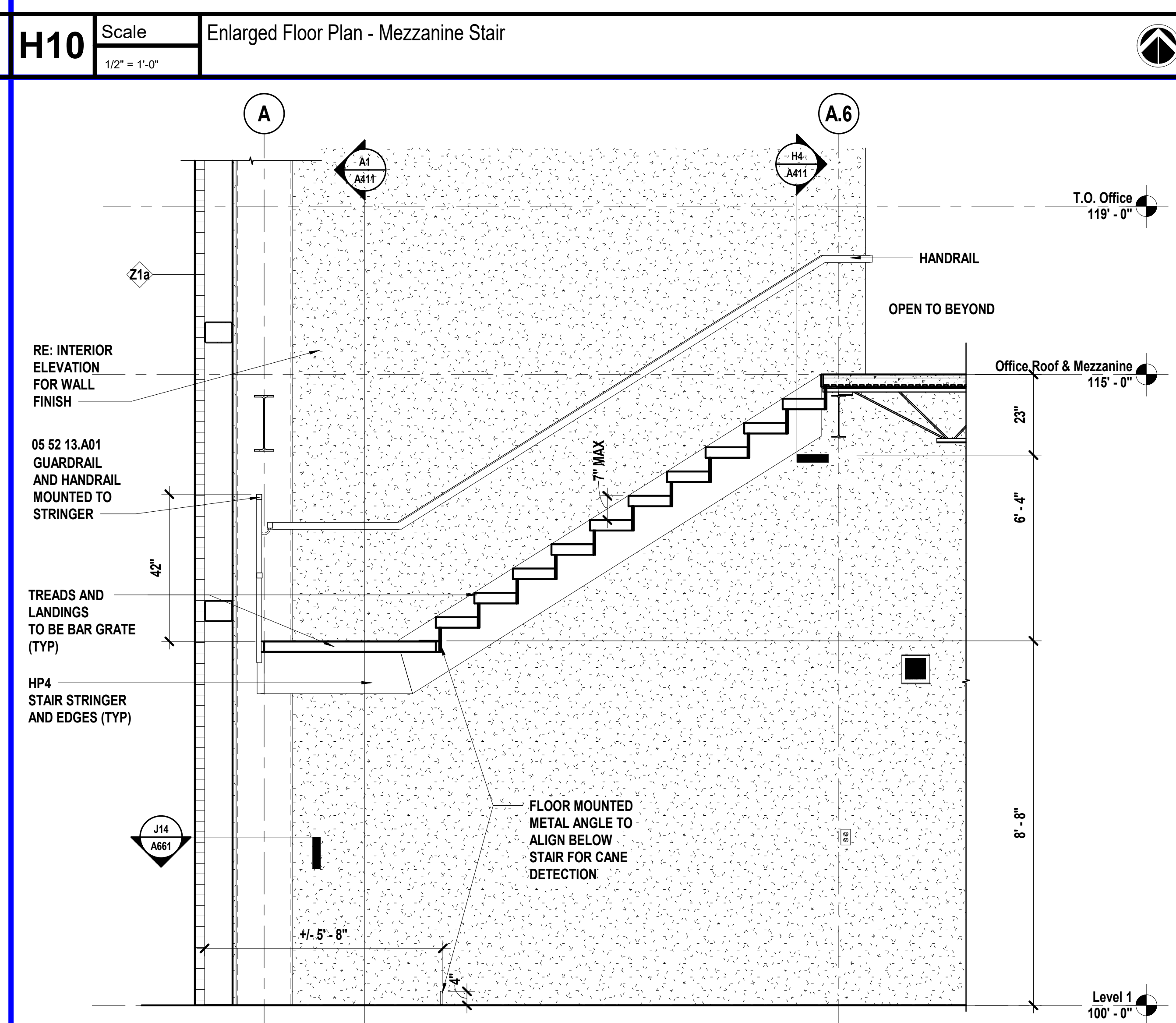
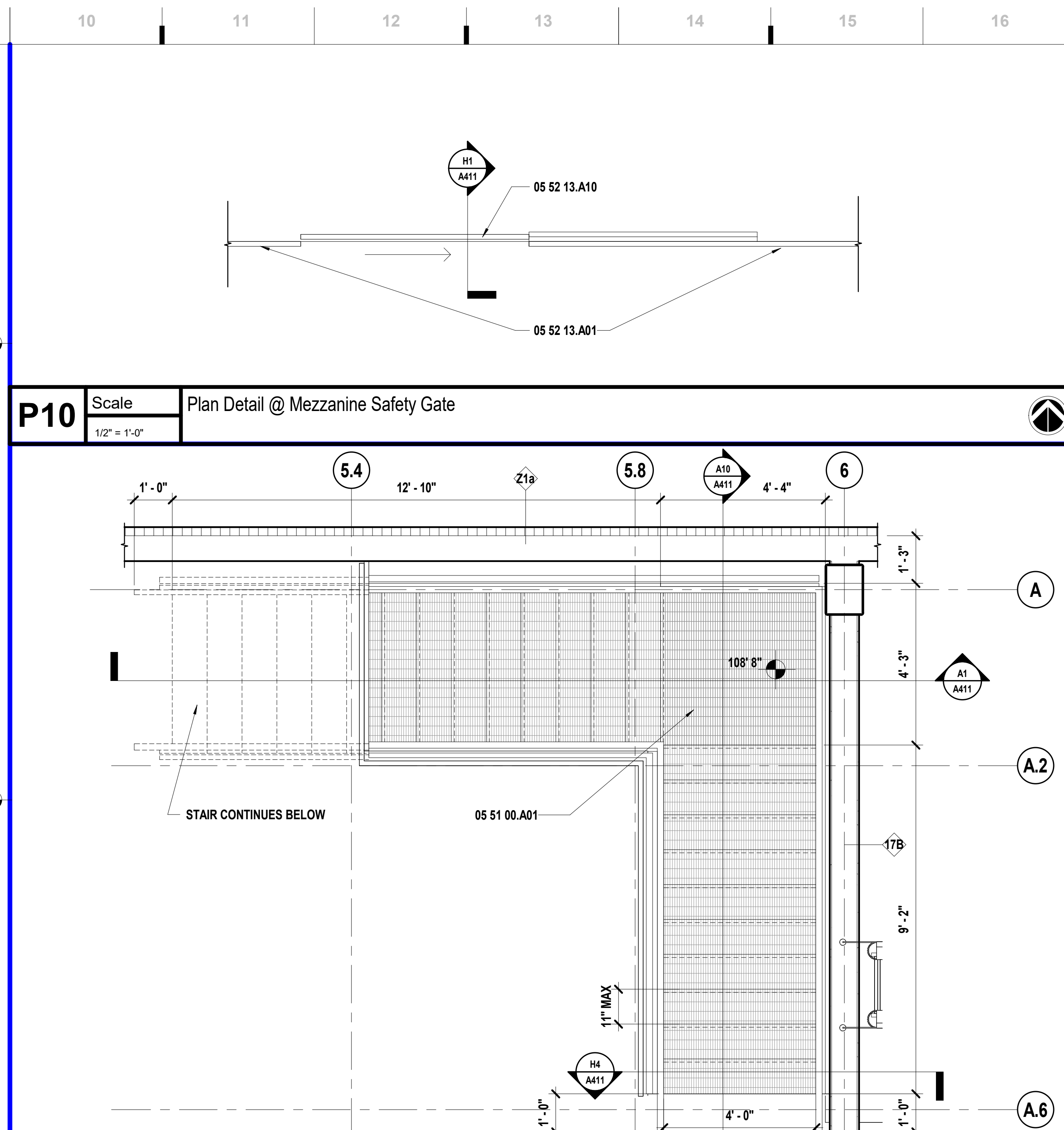
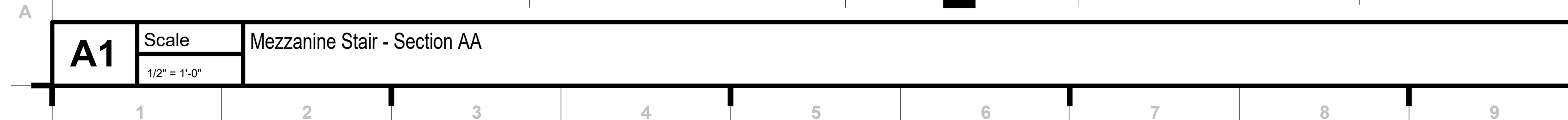
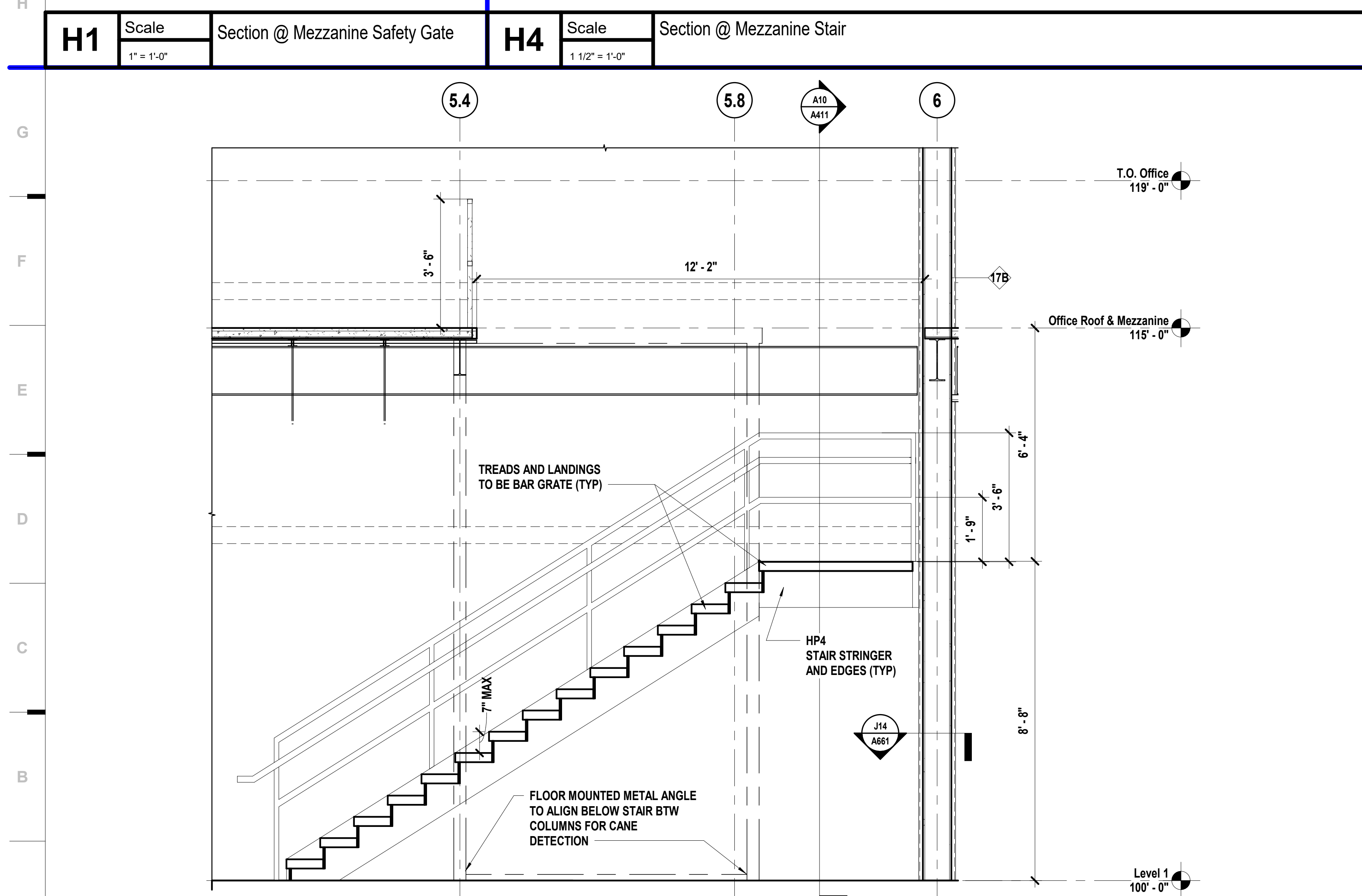
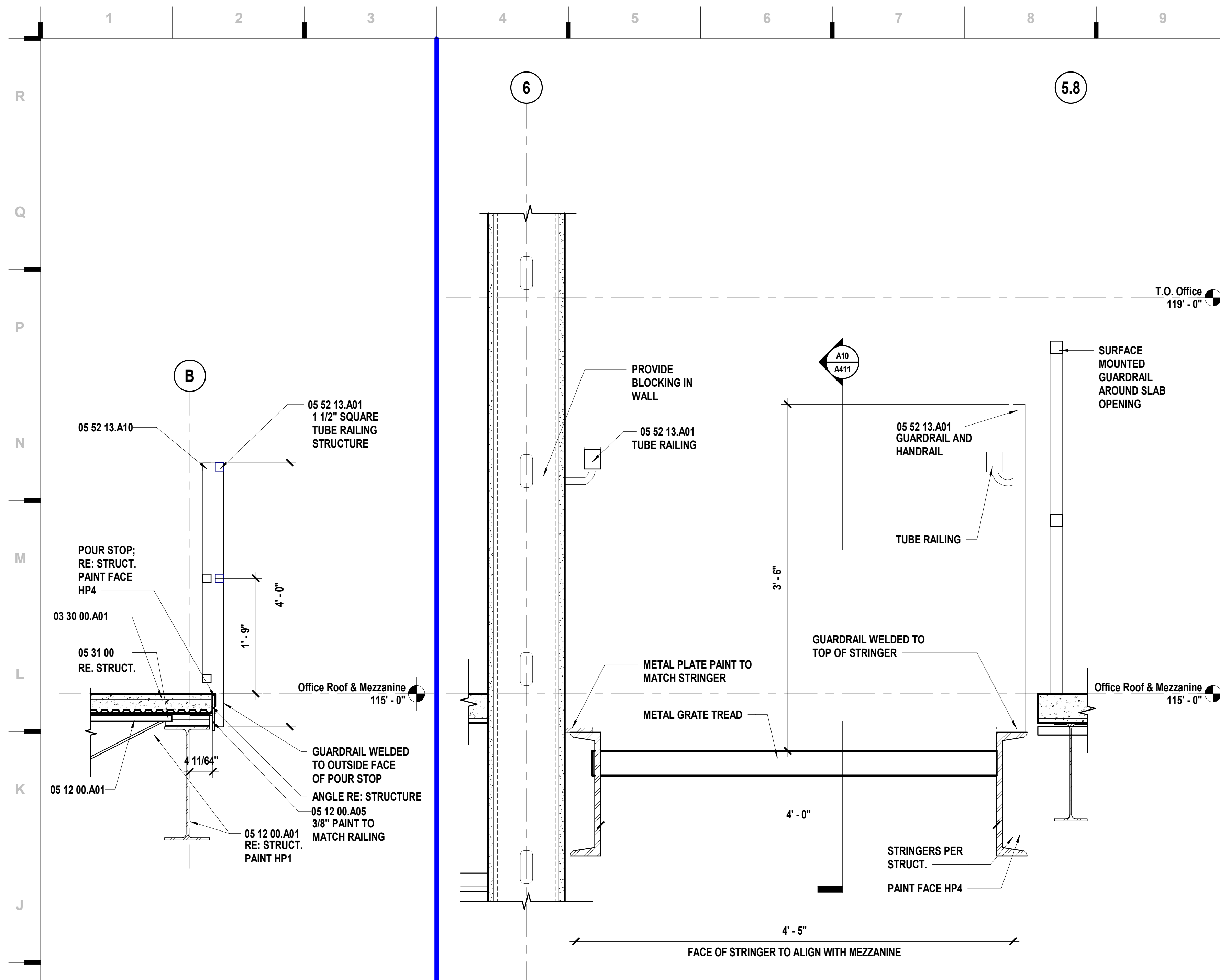
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A-2019015618  
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**A401**





## SHEET KEYNOTE LEGEND

03 30 00.A01	CAST-IN-PLACE CONCRETE
05 12 00.A01	STRUCTURAL STEEL
05 12 00.A05	PLATE AND BAR
05 31 00	STEEL DECKING
05 51 00.A01	PREASSEMBLED STEEL STAIRS
05 52 13.A01	STEEL PIPE AND TUBE RAILINGS
05 52 13.A10	GATE

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Engineering #2001009364  
Landscaping #2006027138  
Surveying #2006027138  
11827 W 112th St #200  
Overland Park, KS 66210  
913.317.9390 phone

**Bob D. Campbell & C**  
Structural Engineer  
State Certificate of Authority  
4338 Belleview Ave.  
Kansas City, MO 64111  
816.531.4144 phone  
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25618 W 103rd St  
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**CONSTRUCTION  
DOCUMENTS**

**Distribution Center**  
Liberty Public Schools  
1138 Southview Dr, Liberty, MO 64068

#	Description	Date
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OCTOBER 10, 2019  
Kevin E. Nelson  
A-2019015618

The Professional Architects seal affixed to this sheet applies only to the material and items shown on this sheet. Drawings, instruments or other documents not exhibiting this seal shall not be considered prepared by this architect. For additional information, visit [www.aia.org/ethics](http://www.aia.org/ethics).

**JOB NO: 23021.00**

DRAWN BY: BM

CHECKED BY: JB /  
DATE: 10.10.2023

## SHEET NOTES

1. DO NOT SCALE THIS DRAWING
2. 1015.4 OPENING LIMITATIONS EXCEPTION 4

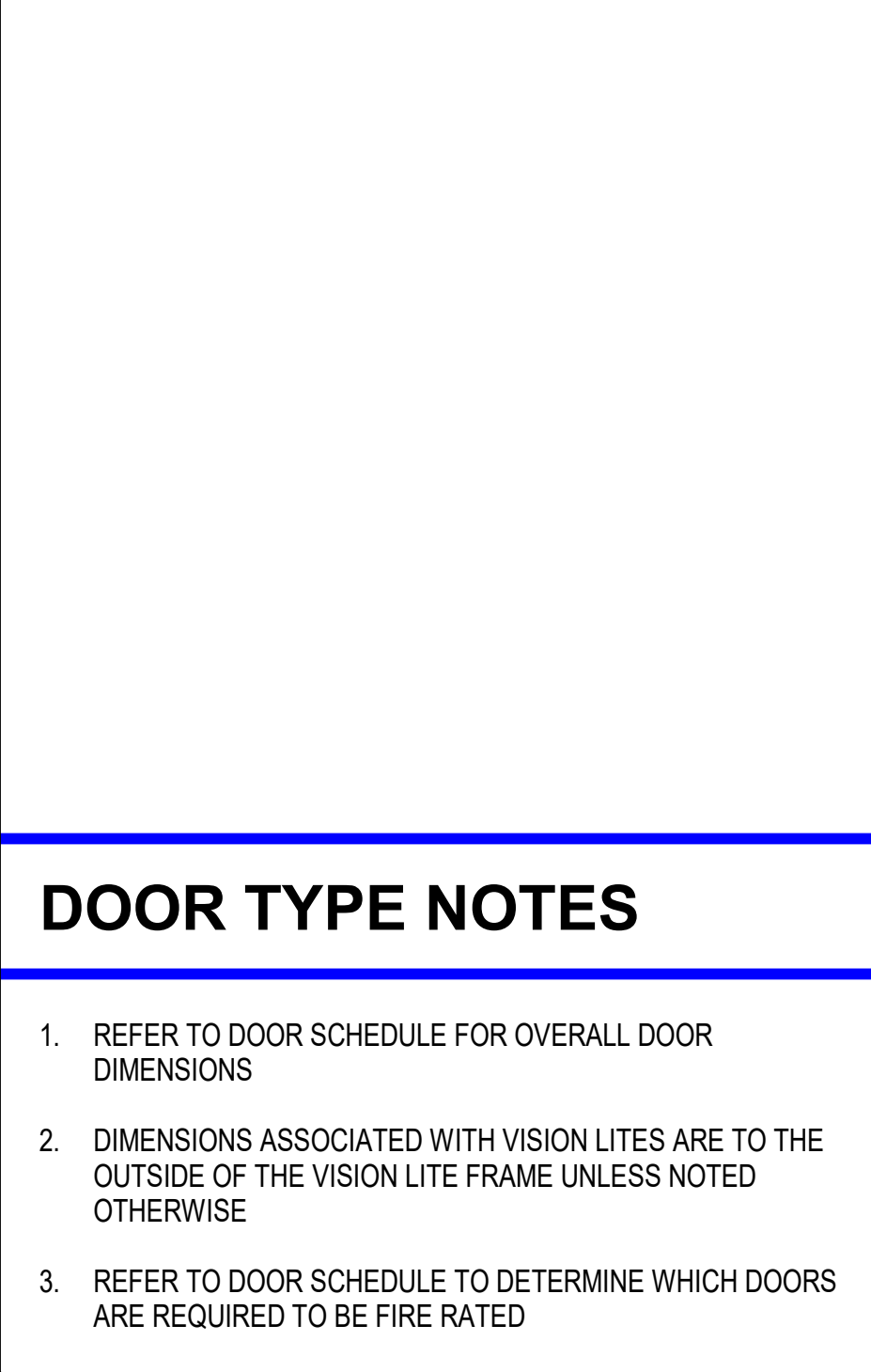
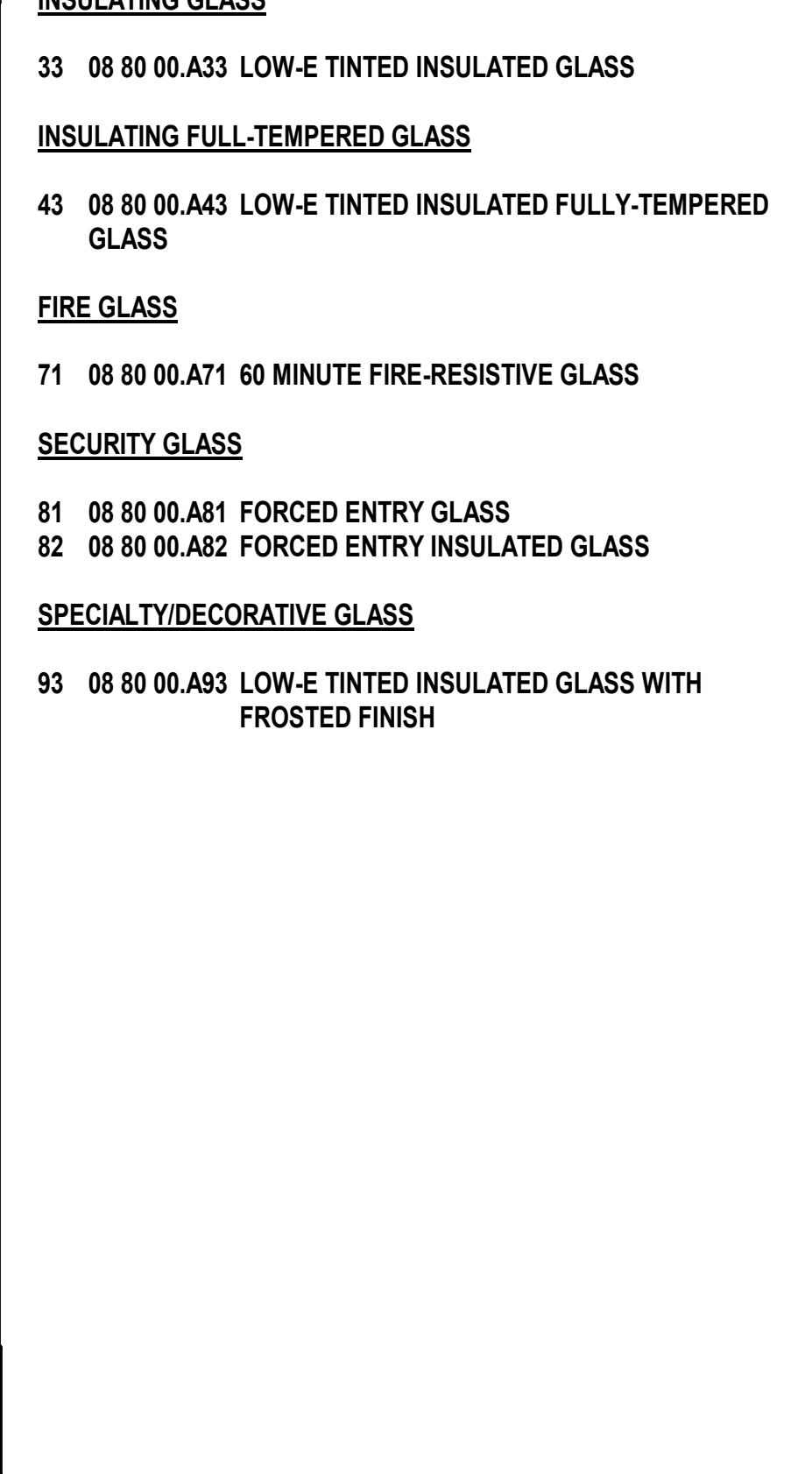
... GUARDS SHALL NOT HAVE OPENING THAT ALLOW PASAGE  
OF A SPHERE 21 INCHES IN DIAMETER

# A411

## VERTICAL CIRCULATION

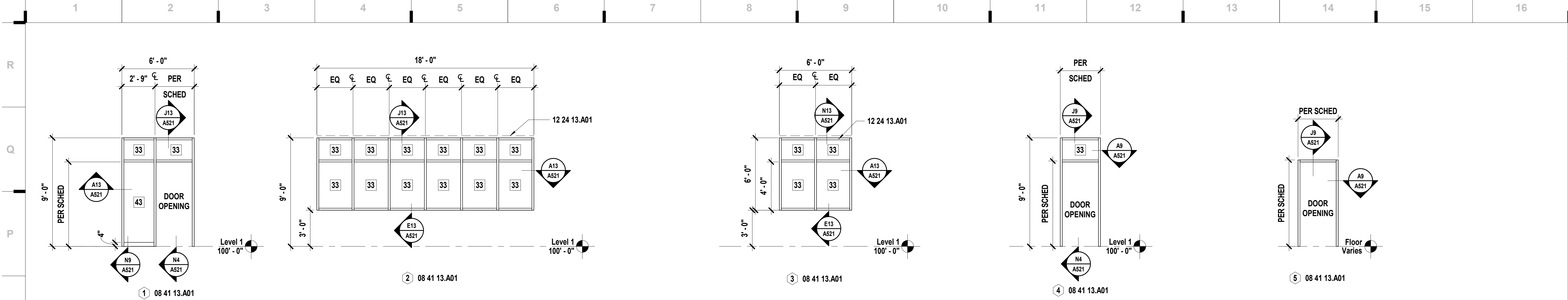


SHEET KEYNOTE LEGEND	
05 00 00.A01	COLD-FORMED METAL FRAMING
06 10 00.A22	PRESERVATIVE TREATED PLYWOOD BLOCKING
08 33 23.A01	OVERHEAD COLLING SERVICE DOORS
09 29 00.A02	GYPSUM BOARD - TYPE X
GLASS LEGEND	
GLASS TYPE = 11	
FULLY-TEMPERED MONOLITHIC FLOAT GLASS	
11	08 80 00.A11 1/4" CLEAR FULLY-TEMPERED MONOLITHIC FLOAT GLASS
12	08 80 00.A12 3/8" CLEAR FULLY-TEMPERED MONOLITHIC FLOAT GLASS
13	08 80 00.A13 1/2" CLEAR FULLY-TEMPERED MONOLITHIC FLOAT GLASS
LAMINATED GLASS	
21	08 80 00.A21 CLAR LAMINATED GLASS

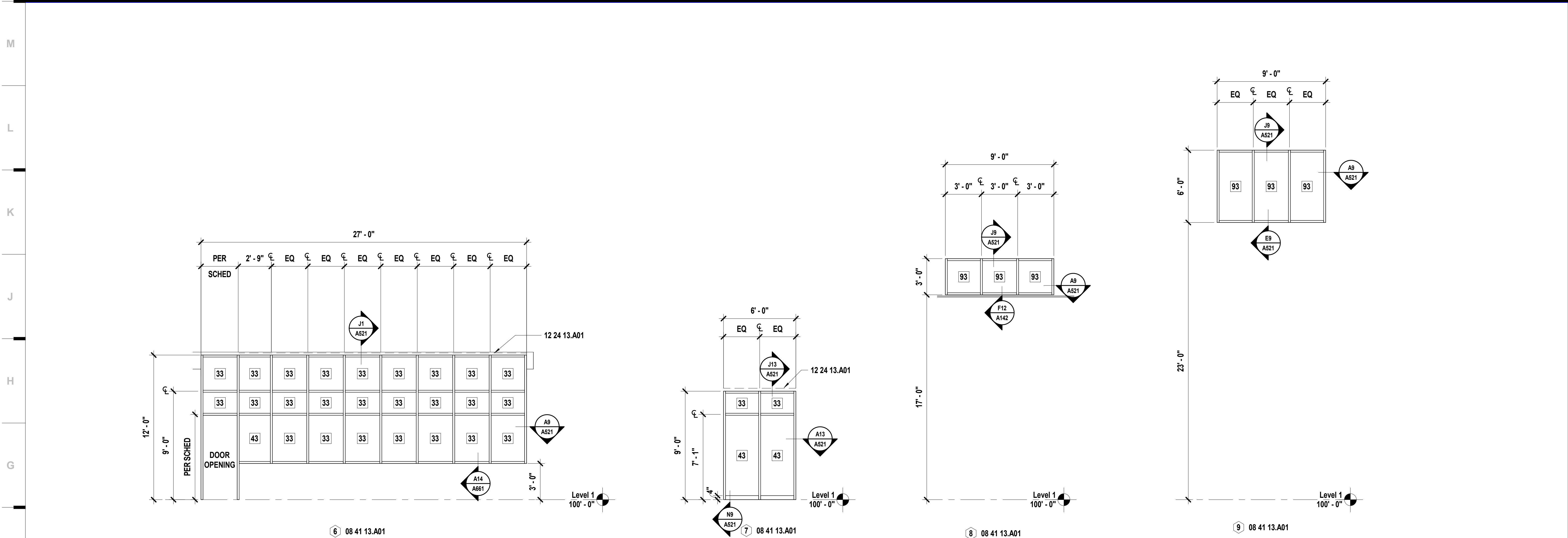




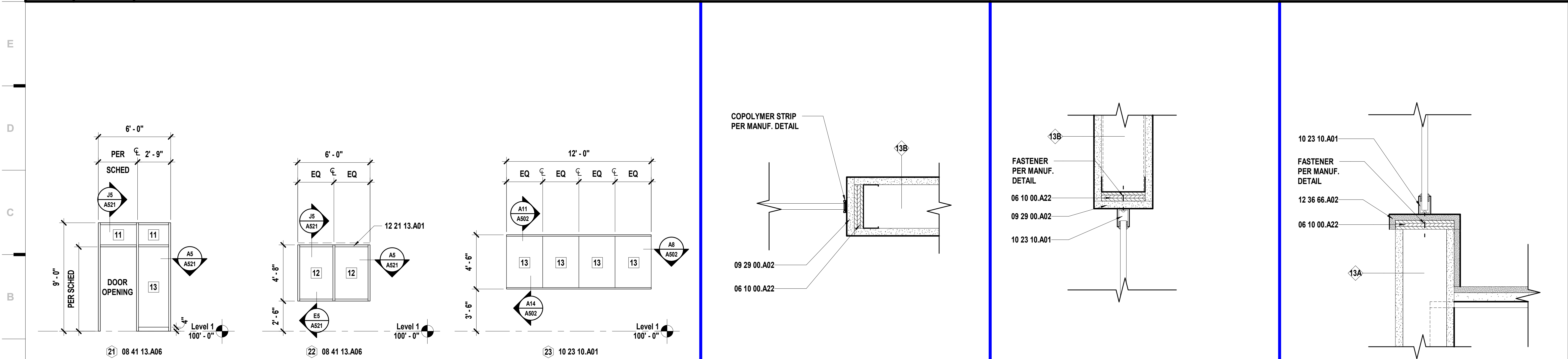
10/9/2023 20:32:59



**N1** Scale Aluminum Frame Types - Exterior  
1/4" = 1'-0"



**F1** Scale Aluminum Frame Types - Exterior  
1/4" = 1'-0"



**A1** Scale Aluminum Frame Types - Interior  
1/4" = 1'-0"

**A8** Scale Enlarged Detail - Frameless Jamb  
3" = 1'-0"

**A11** Scale Enlarged Detail - Frameless Head  
3" = 1'-0"

**A14** Scale Enlarged Detail - Frameless Sill  
3" = 1'-0"

SHEET KEYNOTE LEGEND	
06 10 00.A22	PRESERVATIVE TREATED PLYWOOD BLOCKING
08 41 13.A01	THERMAL BROKEN STOREFRONT FRAMING (4.5")
08 41 13.A06	NON-THERMAL BROKEN STOREFRONT FRAMING (4.5")
09 29 00.A02	GYPSUM BOARD - TYPE X
10 23 10.A01	GLAZED INTERIOR WALL ASSEMBLIES
12 21 13.A01	HORIZONTAL LOUVER BLINDS (MANUAL)
12 24 13.A01	ROLLER SHADES (MANUAL)
12 36 66.A02	SOLID SURFACE TRANSACTION COUNTER

GLASS LEGEND	
GLASS TYPE = 11	
FULLY-TEMPERED MONOLITHIC FLOAT GLASS	
11	08 80 00.A11 1/4" CLEAR FULLY-TEMPERED MONOLITHIC FLOAT GLASS
12	08 80 00.A12 3/8" CLEAR FULLY-TEMPERED MONOLITHIC FLOAT GLASS
13	08 80 00.A13 1/2" CLEAR FULLY-TEMPERED MONOLITHIC FLOAT GLASS
LAMINATED GLASS	
21	08 80 00.A21 CLEAR LAMINATED GLASS
INSULATING GLASS	
33	08 80 00.A33 LOW-E TINTED INSULATED GLASS
INSULATING FULL-TEMPERED GLASS	
43	08 80 00.A43 LOW-E TINTED INSULATED FULLY-TEMPERED GLASS
FIRE GLASS	
71	08 80 00.A71 60 MINUTE FIRE-RESISTIVE GLASS
SECURITY GLASS	
81	08 80 00.A81 FORCED ENTRY GLASS
82	08 80 00.A82 FORCED ENTRY INSULATED GLASS
SPECIALTY/DECORATIVE GLASS	
93	08 80 00.A93 LOW-E TINTED INSULATED GLASS WITH FROSTED FINISH

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Structure # 200601133

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Landscaping #2006027139  
Surveying #2006027138  
11827 W 112th St #200  
Overland Park, KS 66210  
913.317.5590 phone

**Bob D. Campbell & Co.**  
Structural Engineer  
State Certificate of Authority # 000442  
4338 Bellevue Ave.  
Kansas City, MO 64111  
816.531.4144 phone  
816.531.8572 fax

**Smith & Boucher Engineers**  
Mech/Elect Engineer  
State Certificate of Authority # EFC-000178  
25618 W 103rd St  
Olathe, KS 66061  
913.345.2127 phone

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2140 W Grand St Suite B  
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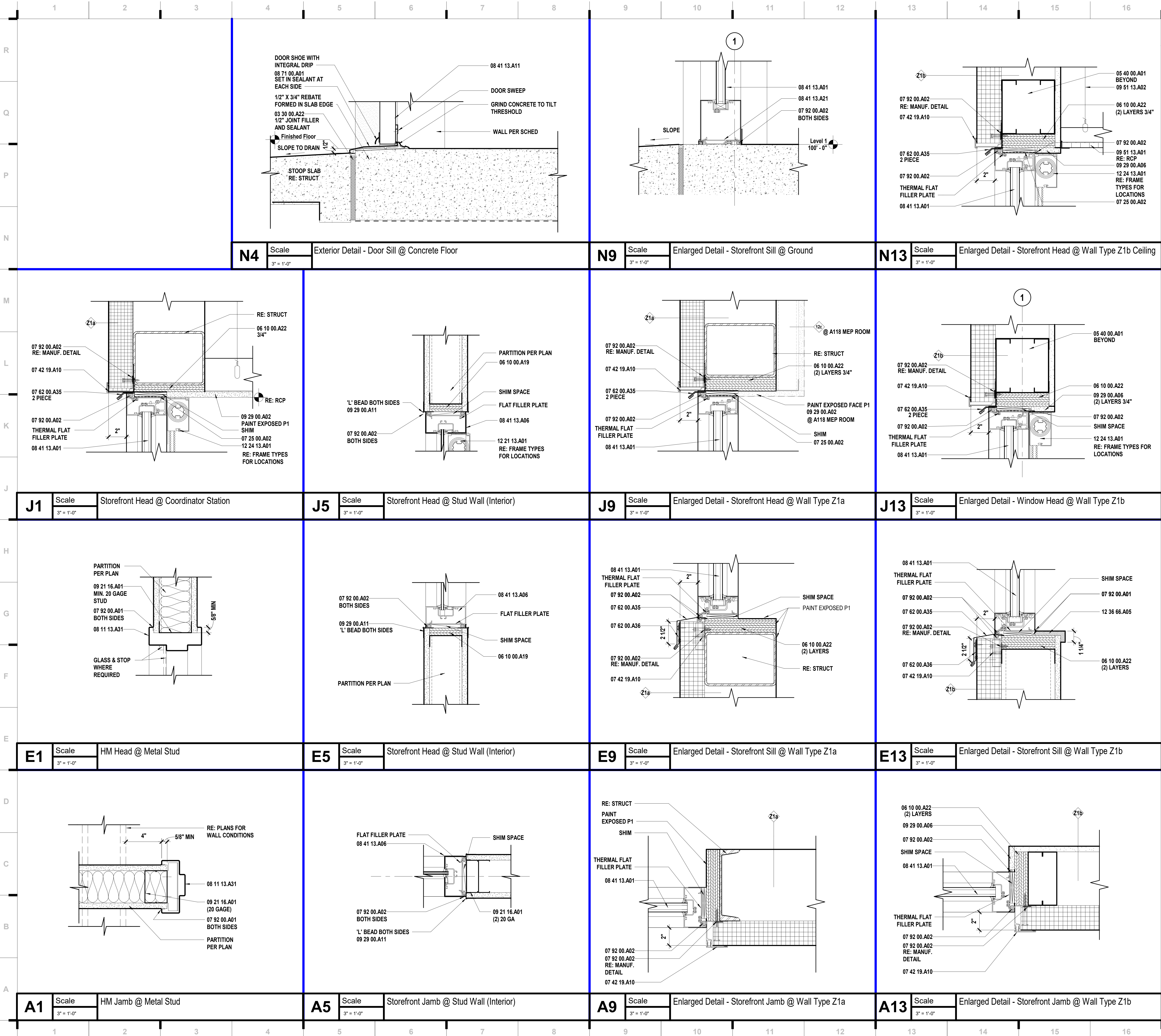
STATE OF MISSOURI  
KEVIN E. NELSON  
A-2019015618  
ARCHITECT  
OCTOBER 10, 2023  
Kevin E. Nelson  
A-2019015618

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A502





### SHEET KEYNOTE LEGEND

03 30 00.A22	EXPANSION/ISOLATION JOINT
05 40 00.A01	COLD-FORMED METAL FRAMING
06 10 00.A19	PLYWOOD BLOCKING AND BACKING PANELS
06 10 00.A22	PRESERVATIVE TREATED PLYWOOD BLOCKING
07 25 00.A02	SELF-ADHERING WEATHER BARRIERS
07 42 19.A10	FLASHING AND TRIM
07 62 00.A35	PRE-FINISHED MISC METAL FLASHING
07 62 00.A36	CLEAT
07 92 00.A01	SEALANT
07 92 00.A02	SEALANT W/BACKER ROD
08 11 13.A31	HOLLOW METAL FRAME
08 41 13.A01	THERMAL BROKEN STOREFRONT FRAMING (4.5")
08 41 13.A06	NON-THERMAL BROKEN STOREFRONT FRAMING (4.5")
08 41 13.A11	ALUMINUM DOOR (STANDARD)
08 41 13.A21	ALUMINUM SUBSILL
08 71 00.A01	THRESHOLDS
09 21 16.A01	NON-STRUCTURAL FRAMING
09 29 00.A02	GYPSUM BOARD - TYPE X
09 29 00.A06	MOLD AND MOISTURE RESISTANT GYPSUM BOARD
09 29 00.A11	GYPSUM BOARD TRIM
09 51 13.A01	ACOUSTICAL CEILING PANELS
09 51 13.A02	CEILING SUSPENSION SYSTEM
12 21 13.A01	HORIZONTAL LOUVER BLINDS (MANUAL)
12 24 13.A01	ROLLER SHADES (MANUAL)
12 36 66.A05	SOLID SURFACE SILL

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Civil Engineer  
State Certificate of Authority  
Engineering #2001009364  
Landscaping #2006027139  
Surveying #2006027138  
11827 W 112th St #200  
Overland Park, KS 66210  
913.317.5590 phone

**Bob D. Campbell & Co.**  
Structural Engineer  
State Certificate of Authority # 000442  
4338 Belleview Ave.  
Kansas City, MO 64111  
816.531.4144 phone  
816.531.8572 fax

**Smith & Boucher Engineers**  
Mech/Elect Engineer  
State Certificate of Authority # EFC-000178  
25618 W 103rd St  
Olathe, KS 66061  
913.345.2127 phone

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Food Service Consultant  
2140 W Grand St Suite 8  
Springfield, MO 65802  
417.862.0812 phone

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1	KEVIN E. NELSON A-2019015618 OCTOBER 10, 2023	

**STATE OF MISSOURI**  
KEVIN E. NELSON  
A-2019015618  
OCTOBER 10, 2023  
Kevin E. Nelson  
A-2019015618

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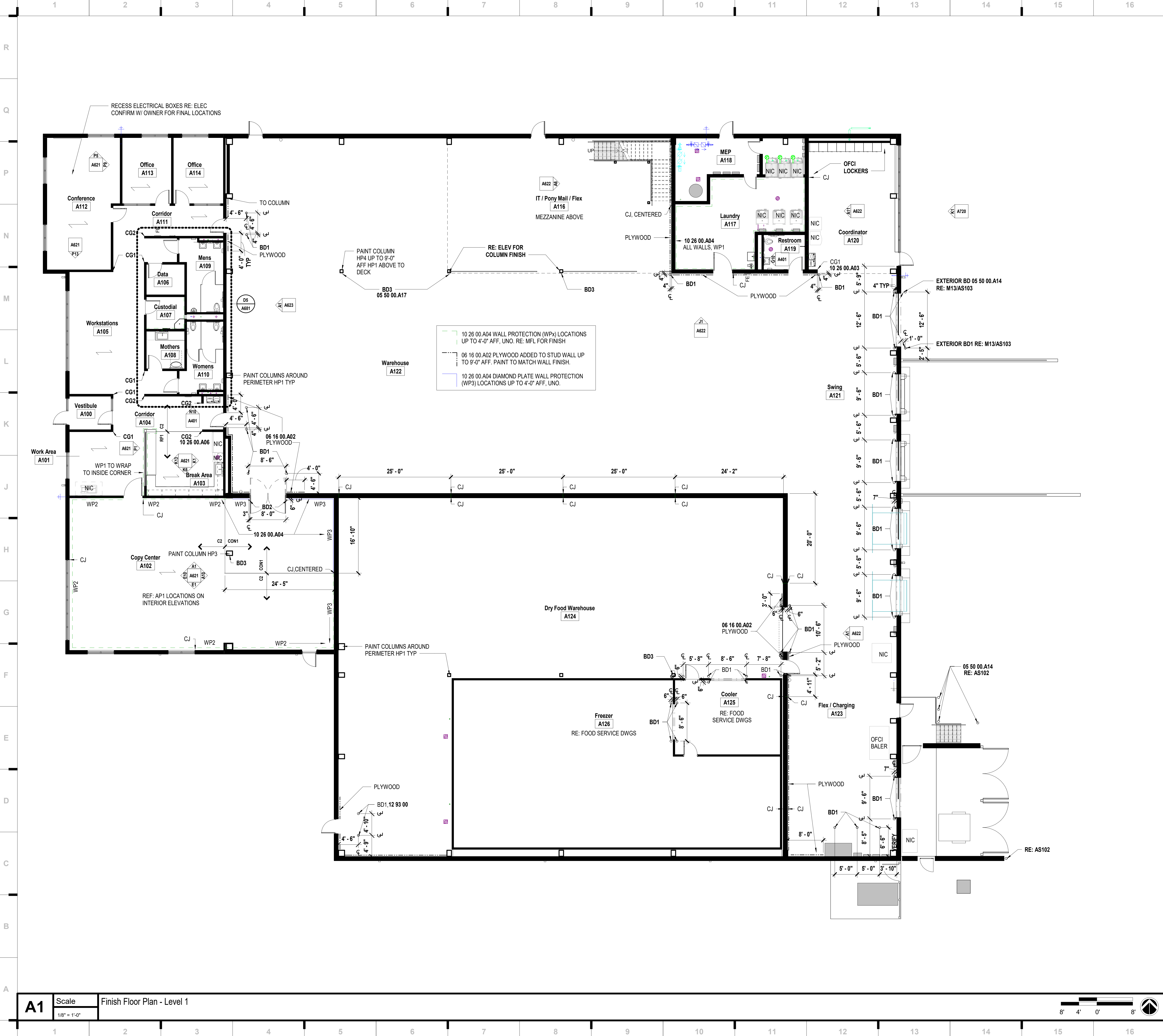
**A521**

**DOOR & WINDOW DETAILS**









SHEET KEYNOTE LEGEND

05 50 00.A14	BOLLARDS
05 50 00.A17	COLUMN GUARD
06 16 00.A02	FIRE-RETARDANT TREATED PLYWOOD
10 26 00.A03	CORNER GUARDS
10 26 00.A04	IMPACT-RESISTANT WALL COVERINGS
10 26 00.A06	END-OF-WALL GUARDS
12 93 00	SITE FURNISHINGS

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Missouri State Certificate of Authority  
Architecture # 0000101  
Structure # 200001333

MKEC Engineering, Inc.  
Civil Engineer  
State Certificate of Authority  
Engineering #2001009364  
Landscaping #2006027139  
Surveying #2006027138  
11827 W 112th St #200  
Overland Park, KS 66210  
913.317.5590 phone

Bob D. Campbell & Co.  
Structural Engineer  
State Certificate of Authority # 000442  
4338 Bellevue Ave.  
Kansas City, MO 64111  
816.531.4144 phone  
816.531.8572 fax

Smith & Boucher Engineers  
Mech/Elect Engineer  
State Certificate of Authority # EFC-000178  
25618 W 103rd St  
Olathe, KS 66061  
913.345.2127 phone

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Food Service Consultant  
2140 W Grand St Suite B  
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417.862.0812 phone

SHEET MATERIAL FINISH LEGEND

ID	MATERIAL	COLOR/FINISH
AP1	Acoustical Panels	2024
C1	Carpet	104935 Granite
C2	Carpet	106025 Wrought Iron
CG1	Corner Guard	Stainless Steel
CG2	End Of Wall Guard	Stainless Steel
CON1	Concrete Finish	
CON2	Concrete Finish	
FT1	Floor (Poured) Topping	Quartz Colors 33% SW7653, 32% SW7018, 35% SW7625
HP1	High Performance Coating	SW 7004 Snowbound
HP2	High Performance Coating	NOT USED
HP3	High Performance Coating	SW 7067 Cityscape
HP4	High Performance Coating	SW 7603 Poolhouse
P1	Paint	SW 7004 Snowbound
P2	Paint	NOT USED
P3	Paint	SW 7067 Cityscape
P4	Paint	SW 7603 Poolhouse
PL1	Plastic Laminate	Italian Silver Ash 8217K-16
RB1	Resilient Base & Accessories	48 Grey
RF1	Resilient Flooring	A01611 Mousse
SS1	Simulated Stone	Frosty White Mirage   573MG
T1	Tile	NOT USED
T2	Tile	Matte Chalkboard, 8" x 24"
T3	Tile	Matte Arctic White, 8" x 24"
WP1	Wall Paneling	554 Mission White
WP2	Wall Paneling	94 Summer Fog
WP3	Wall Paneling	3003 - Brite Finish

SHEET NOTES

- REFER TO SHEET G000 FOR SHEET INDEX
- FINISH FLOOR PATTERNS TO BE CENTERED IN EACH ROOM UNO
- CORNER GUARD LOCATIONS ARE INDICATED BY SYMBOL (CG) AND ARE TO BE FULL HEIGHT FROM TOP OF BASE
- COORDINATE FLOORING INSTALLATION WITH CASEWORK TO ENSURE FLOORING EXTENDS UNDER CABINET TOE SPACES AND OPEN KNEE/APPLIANCE SPACES
- ALL CLOSETS AND ALCOVES WITHOUT SEPARATE ROOM NUMBERS TO HAVE SAME FLOORING AND PATTERNS AS THE LARGER, IDENTIFIED ROOM
- NOT ALL FLOORING MATERIALS SHOWN ON FINISH PLANS. REFER TO FINISH SCHEDULE FOR MATERIALS IN LOCATIONS NOT SHOWN
- PATTERNS SHOWN THIS SHEET SHOULD REFLECT PATTERN OF MATERIAL MODULE
- ITEMS SHOWN IN HALFTONE ARE NOT IN SCOPE OF WORK AND ARE TO BE RELOCATED BY OWNER.
- ALIGN PAIRS OF BOLLARDS AT EACH INSTANCE OF OVERHEAD AND DOUBLE DOORS.
- GYPSUM CONTROL JOINTS (CJ) TO OCCUR EVERY 25'-0" O.C. ALONG INTERIOR FACES OF WALLS, U.N.O.  
RE: A110 SLAB PLAN FOR CONCRETE CONTROL JOINTS (CJ)
- SAFETY MIRRORS RE: RACKING PLAN A604. VERIFY FINAL LOCATION OF SAFETY MIRRORS WITH OWNER 08 83 00.A02
- BD = BOLLARDS LOCATED INSIDE BUILDING 12 93 00 TO ALIGN W/ ADJACENT DOOR FRAME/TRACK UNO.

BD1 = FIXED BOLLARD, FIELD PAINTED, 6" DIAMETER  
BD2 = PEDESTRIAN BOLLARD, FIELD PAINTED, 3" DIAMETER  
BD3 = COLUMN GUARD, 42" TALL, 05 50 00.A17

Distribution Center  
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OCTOBER 10, 2023

Kevin E. Nelson  
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A601









GENERAL NOTE: PLAN IS FOR REFERENCE ONLY. CONTRACTOR TO COORDINATE NEW RACKING AS REQUIRED WITH MANUFACTURER. OWNER TO COORDINATE EXISTING EQUIPMENT TO BE RELOCATED.

## SHEET KEYNOTE LEGEND

08 83 00.A02 SAFETY GLASS MIRRORS

## SHEET NOTES

- REFER TO SHEET G000 FOR SHEET INDEX
- FINISH FLOOR PATTERNS TO BE CENTERED IN EACH ROOM UNO
- CORNER GUARD LOCATIONS ARE INDICATED BY SYMBOL (CG) AND ARE TO BE FULL HEIGHT FROM TOP OF BASE
- COORDINATE FLOORING INSTALLATION WITH CASEWORK TO ENSURE FLOORING EXTENDS UNDER CABINET TOE SPACES AND OPEN KNEE/APPLIANCE SPACES
- ALL CLOSETS AND ALCOVES WITHOUT SEPARATE ROOM NUMBERS TO HAVE SAME FLOORING AND PATTERNS AS THE LARGER, IDENTIFIED ROOM
- NOT ALL FLOORING MATERIALS SHOWN ON FINISH PLANS. REFER TO FINISH SCHEDULE FOR MATERIALS IN LOCATIONS NOT SHOWN
- PATTERNS SHOWN THIS SHEET SHOULD REFLECT PATTERN OF MATERIAL MODULE
- ITEMS SHOWN IN HALFTONE ARE NOT IN SCOPE OF WORK AND ARE TO BE RELOCATED BY OWNER.
- ALIGN PAIRS OF BOLLARDS AT EACH INSTANCE OF OVERHEAD AND DOUBLE DOORS.
- GYPSON CONTROL JOINTS (CJ) TO OCCUR EVERY 25'-0" O.C. ALONG INTERIOR FACES OF WALLS. U.N.O.  
RE: A110 SLAB PLAN FOR CONCRETE CONTROL JOINTS (CJ)
- SAFETY MIRRORS RE: RACKING PLAN A604. VERIFY FINAL LOCATION OF SAFETY MIRRORS WITH OWNER 08 83 00.A02
- BD = BOLLARDS LOCATED INSIDE BUILDING 12 93 00 TO ALIGN W/ ADJACENT DOOR FRAME/TRACK UNO.

BD1 = FIXED BOLLARD, FIELD PAINTED, 6" DIAMETER  
BD2 = PEDESTRIAN BOLLARD, FIELD PAINTED, 3" DIAMETER  
BD3 = COLUMN GUARD, 42" TALL, 05 50 00 A17

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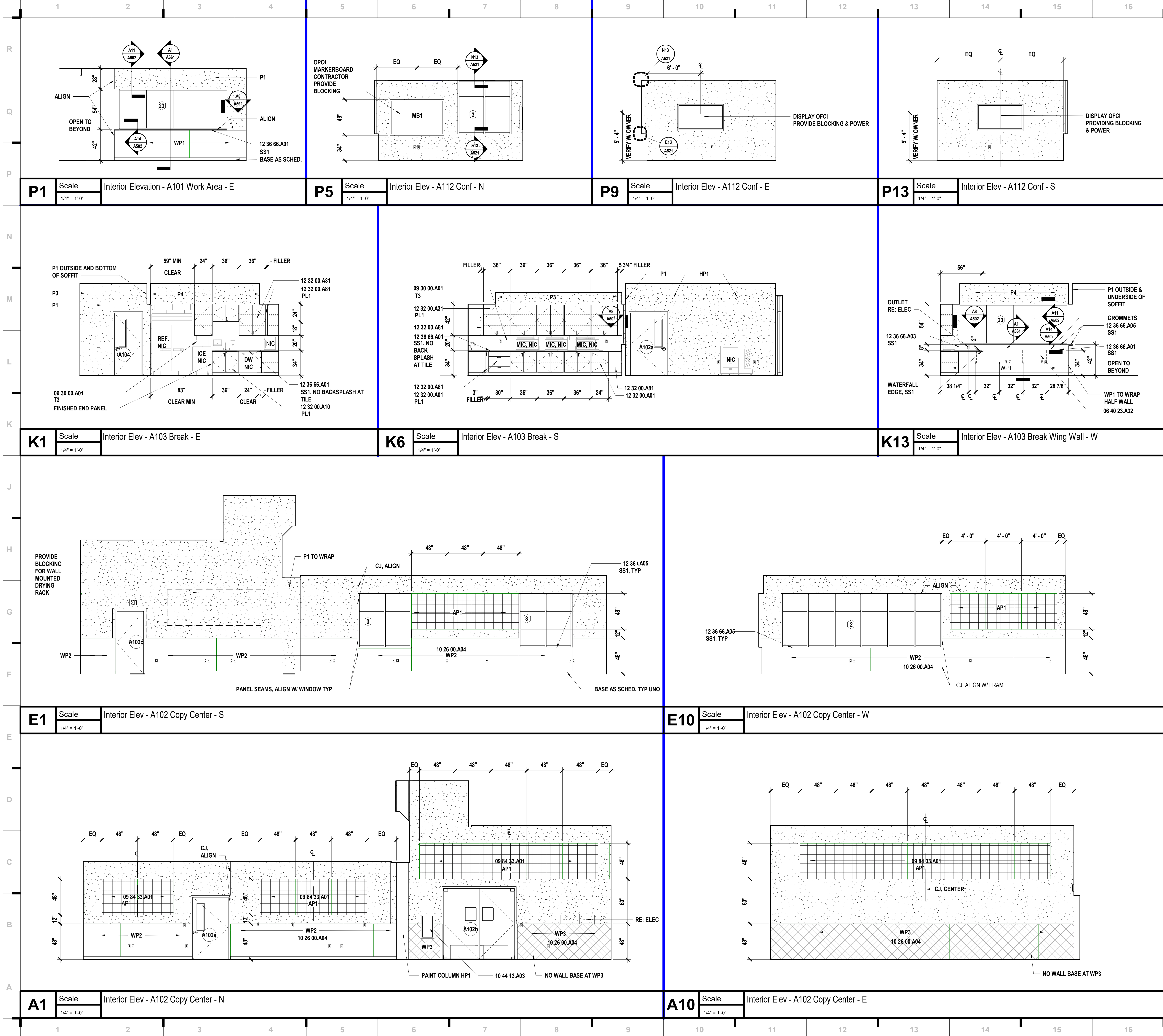


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# A604





### SHEET KEYNOTE LEGEND

06 40 23.A32	CONCEALED BRACKET
09 30 00.A01	TILE
09 84 33.A01	SOUND-ABSORBING WALL PANELS
10 26 00.A04	IMPACT-RESISTANT WALL COVERINGS
10 44 13.A03	SEMI-RECESSED STEEL CABINET
12 32 00.A01	BASE CABINET
12 32 00.A10	SINK BASE
12 32 00.A31	WALL CABINET
12 32 00.A81	FILLER
12 36 66	SOLID SURFACING COUNTERTOPS AND SILLS
12 36 66.A01	SOLID SURFACE COUNTERTOP
12 36 66.A03	SOLID SURFACE SPLASHES
12 36 66.A05	SOLID SURFACE SILL

### SHEET MATERIAL FINISH LEGEND

ID	MATERIAL	COLOR/FINISH
AP1	Acoustical Panels	2024
CG1	Corner Guard	Stainless Steel
CG2	End Of Wall Guard	Stainless Steel
HP1	High Performance Coating	SW 7004 Snowbound
HP2	High Performance Coating	NOT USED
HP3	High Performance Coating	SW 7067 Cityscape
HP4	High Performance Coating	SW 7603 Poolhouse
P1	Paint	SW 7004 Snowbound
P2	Paint	NOT USED
P3	Paint	SW 7067 Cityscape
P4	Paint	SW 7603 Poolhouse
PL1	Plastic Laminate	Italian Silver Ash 8217K-16
RB1	Resilient Base & Accessories	48 Grey
SS1	Simulated Stone	Frosty White Mirage   573MG
T1	Tile	NOT USED
T2	Tile	Matte Chalkboard, 8" x 24"
T3	Tile	Matte Arctic White, 8" x 24"
WP1	Wall Paneling	554 Mission White
WP2	Wall Paneling	94 Summer Fog
WP3	Wall Paneling	3003 - Brite Finish

### SHEET NOTES

- REFER TO SHEET G000 FOR SHEET INDEX
- COORDINATE LOCATIONS WHERE BACKING REQUIRED FOR WALL HUNG CASEWORK, MARKERBOARDS, AND TECHNOLOGY
- COLOR/MATERIAL TRANSITIONS ARE NOTED WHEN THEY DO NOT OCCUR AT INSIDE CORNERS
- REFER TO MEP SHEETS FOR LOCATION DIAGRAM OF SWITCHES, THERMOSTATS, FIRE ALARM STROBES TO BE MOUNTED ADJACENT TO ENTRY DOORS OR AT OUTSIDE CORNERS WITHIN ROOMS
- COORDINATE WITH ELECTRICAL SHEETS FOR HEIGHT OF OUTLETS A.F.F. AND/OR ABOVE COUNTERTOPS
- COORDINATE WITH MECHANICAL SHEETS FOR LOCATIONS OF WALL MOUNTED GRILLES AND REGISTERS
- ALL EXPOSED CASEWORK SURFACES TO RECEIVE PLASTIC LAMINATE
- ALL BACKSPLASH MATERIAL TO MATCH COUNTERTOP MATERIAL, UNO
- PROVIDE 4" BACKSPLASH, UNO
- PROVIDE 1" OVERHANG AT ALL COUNTERTOPS, UNO
- PROVIDE ONE 2" DIAMETER GROMMET PER 30 INCH OF KNEE-SPACE AT FLOATING COUNTERS. COORDINATE EXACT LOCATION WITH OWNER
- REFER TO PLUMBING DRAWINGS FOR LOCATIONS OF SINKS AND OTHER PLUMBING FIXTURES LOCATED WITHIN CASEWORK
- ALL BASE CABINETS ARE TO BE 24" DEEP, UNO
- ALL UPPER CABINETS ARE TO BE 16" DEEP, UNO
- COORDINATE VESTIBULE DOOR CONTROL BUTTON LOCATION AT WITH OWNER
- PROVIDE WOOD CLEAT AT BACK AND SIDE WALLS OF ALL COUNTERTOPS WITH NO BASE CABINET BELOW. PAINT CLEAT TO MATCH ADJ WALL.
- RE: A681 ROOM FINISH SCHEDULE FOR MORE INFORMATION

### REVISIONS:

#	Description	Date
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**Kevin E. Nelson**  
A-2019015618  
OCTOBER 10, 2023

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11827 W 112th St #200  
Overland Park, KS 66210  
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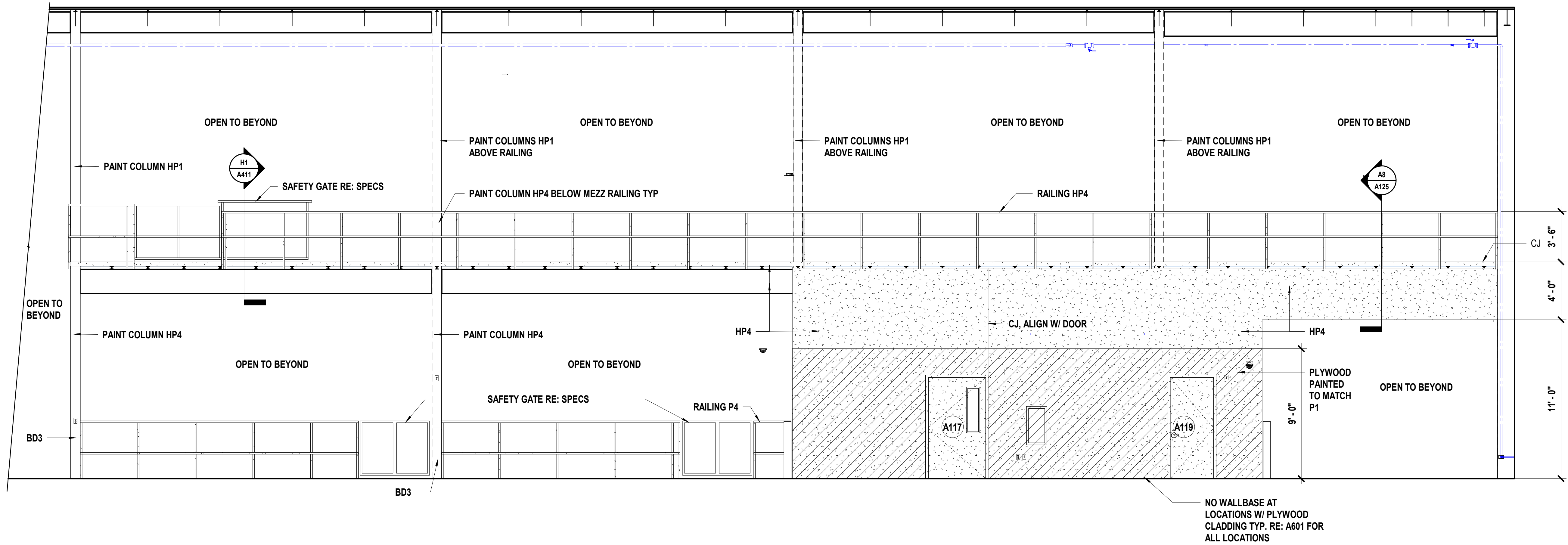
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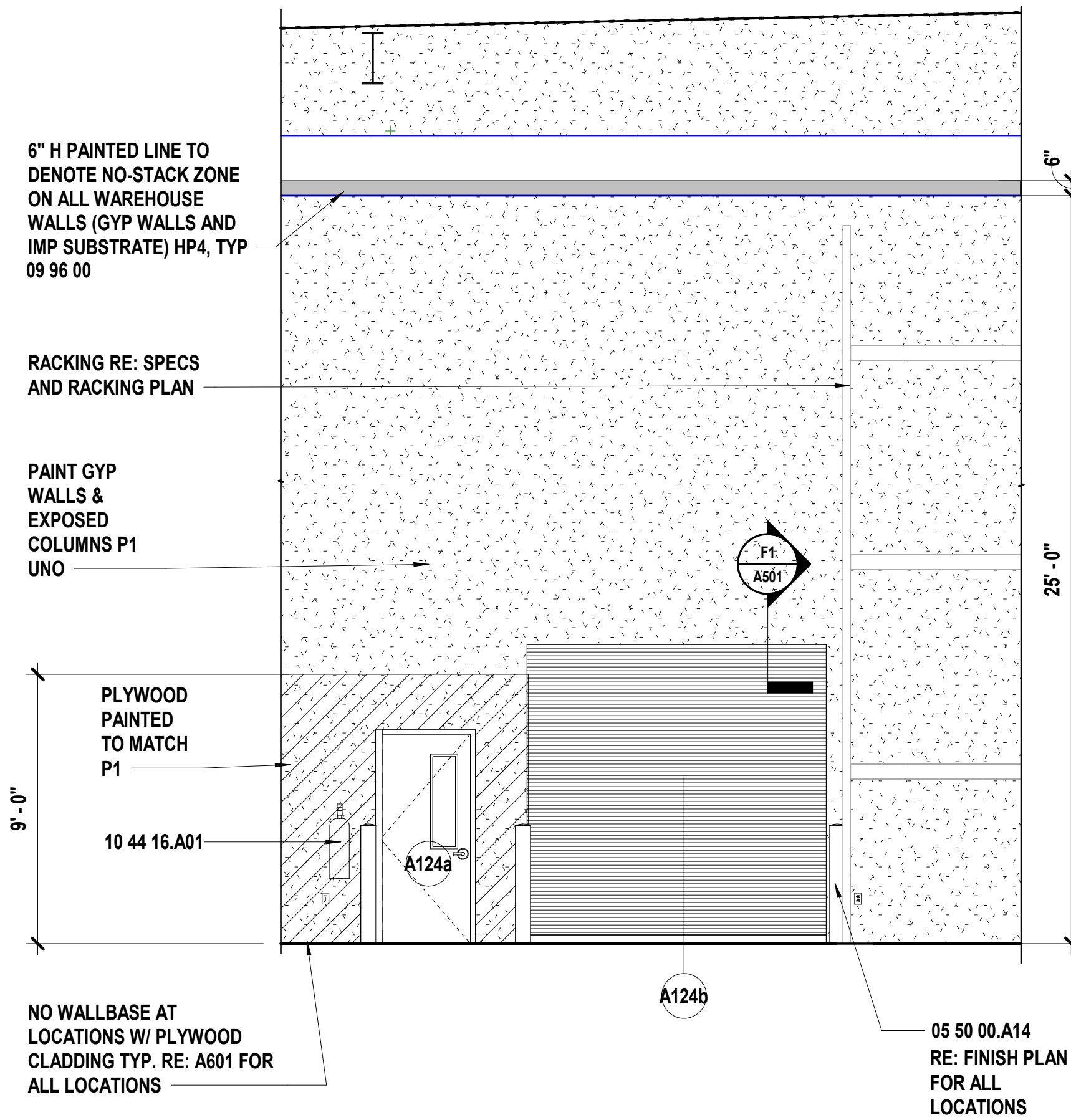
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INTERIOR ELEVATIONS

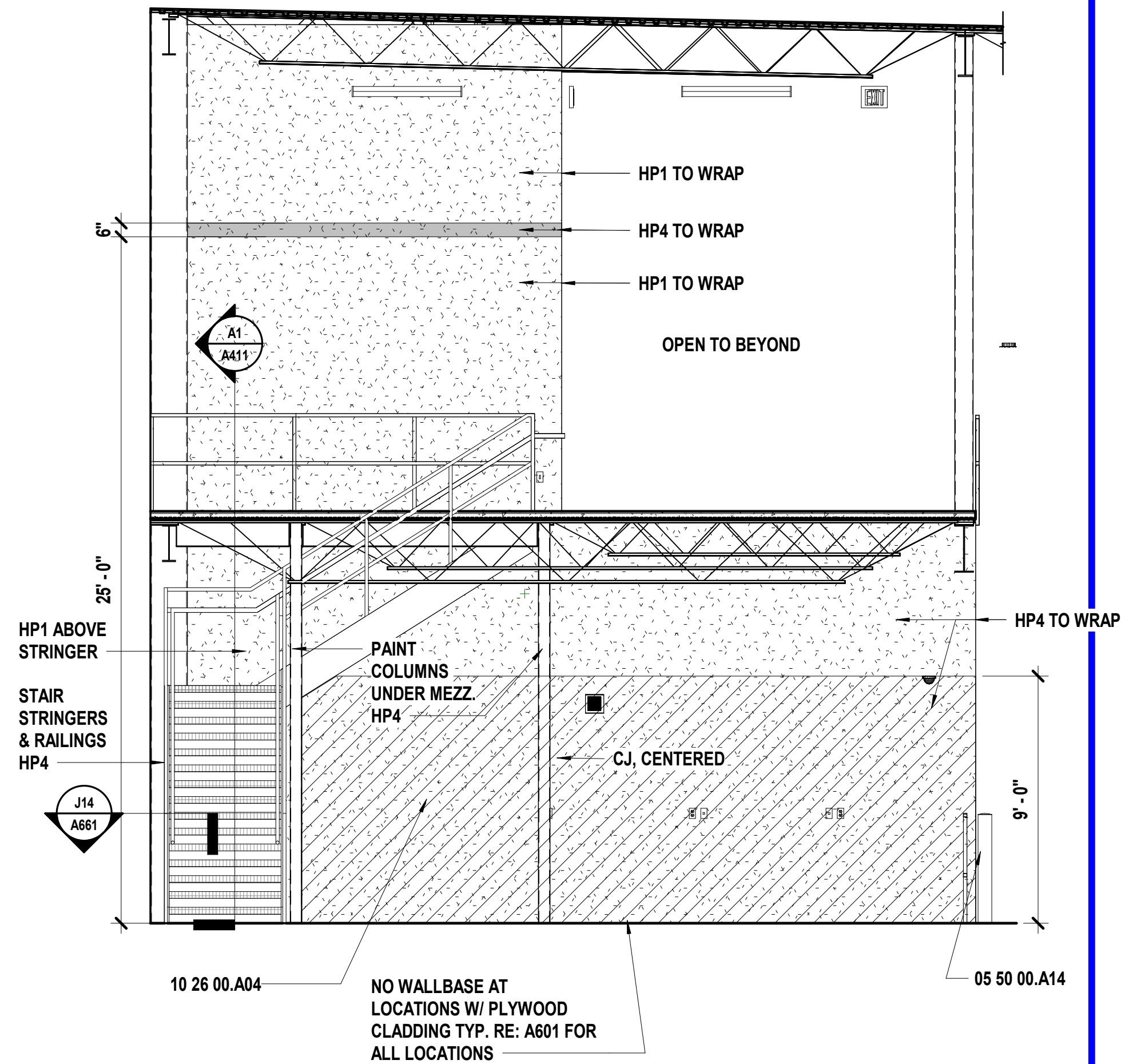




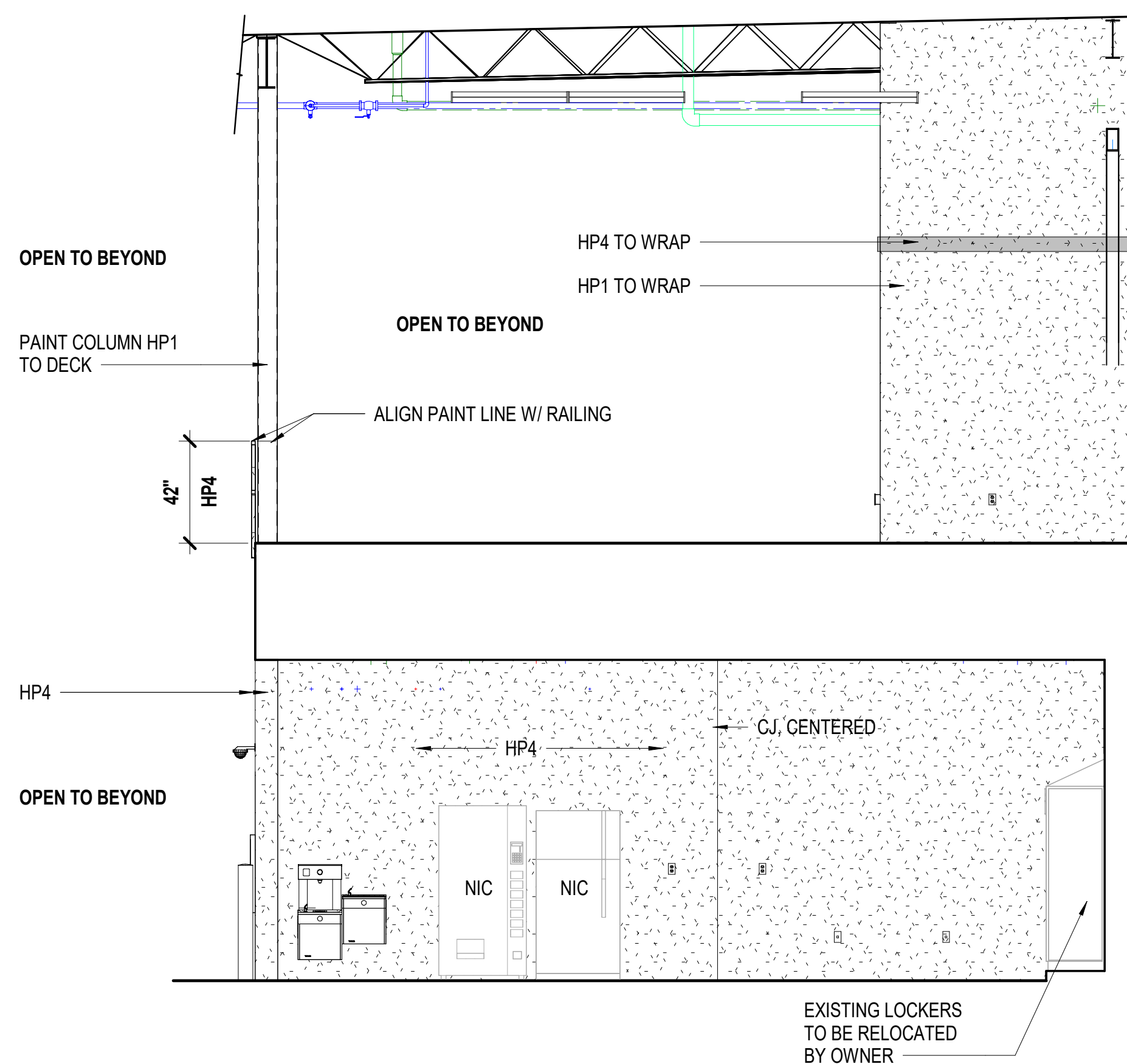
**J1** Scale Interior Elev - A122 Warehouse - N  
1/4" = 1'-0"



**A1** Scale Interior Elev - A123 Flex/Charging, TYP Warehouse Wall Protection - W  
1/4" = 1'-0"



**A6** Scale Interior Elev - A116 IT / Flex - E  
1/4" = 1'-0"



**A11** Scale Interior Elev - A120 Coord Desk - W  
1/4" = 1'-0"

## SHEET KEYNOTE LEGEND

05 50 00.A14	BOLLARDS
09 96 00	HIGH PERFORMANCE COATINGS
10 26 00.A04	IMPACT-RESISTANT WALL COVERINGS
10 44 16.A01	FIRE EXTINGUISHER

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Mech/Elect Engineer  
State Certificate of Authority # EFC-000178  
25618 W 103rd St  
Olathe, KS 66061  
913.345.2127 phone

**Fellers Food Service Equipment & Design**  
Food Service Consultant  
2140 W Grand St Suite B  
Springfield, MO 65802  
417.862.0812 phone

## SHEET MATERIAL FINISH LEGEND

ID	MATERIAL	COLOR/FINISH
AP1	Acoustical Panels	2024
CG1	Corner Guard	Stainless Steel
CG2	End Of Wall Guard	Stainless Steel
HP1	High Performance Coating	SW 7004 Snowbound
HP2	High Performance Coating	NOT USED
HP3	High Performance Coating	SW 7067 Cityscape
HP4	High Performance Coating	SW 7603 Poolhouse
P1	Paint	SW 7004 Snowbound
P2	Paint	NOT USED
P3	Paint	SW 7067 Cityscape
P4	Paint	SW 7603 Poolhouse
PL1	Plastic Laminate	Italian Silver Ash 8217K-16
RB1	Resilient Base & Accessories	48 Grey
SS1	Simulated Stone	Frosty White Mirage   573MG
T1	Tile	NOT USED
T2	Tile	Matte Chalkboard, 8" x 24"
T3	Tile	Matte Arctic White, 8" x 24"
WP1	Wall Paneling	554 Mission White
WP2	Wall Paneling	94 Summer Fog
WP3	Wall Paneling	3003 - Brite Finish

## SHEET NOTES

- REFER TO SHEET G000 FOR SHEET INDEX
- COORDINATE LOCATIONS WHERE BACKING REQUIRED FOR WALL HUNG CASEWORK, MARKERBOARDS, AND TECHNOLOGY
- COLOR/MATERIAL TRANSITIONS ARE NOTED WHEN THEY DO NOT OCCUR AT INSIDE CORNERS
- REFER TO MEP SHEETS FOR LOCATION DIAGRAM OF SWITCHES, THERMOSTATS, FIRE ALARM STROBES TO BE MOUNTED ADJACENT TO ENTRY DOORS OR AT OUTSIDE CORNERS WITHIN ROOMS
- COORDINATE WITH ELECTRICAL SHEETS FOR HEIGHT OF OUTLETS A.F.F. AND/OR ABOVE COUNTERTOPS
- COORDINATE WITH MECHANICAL SHEETS FOR LOCATIONS OF WALL MOUNTED GRILLES AND REGISTERS
- ALL EXPOSED CASEWORK SURFACES TO RECEIVE PLASTIC LAMINATE
- ALL BACKSPLASH MATERIAL TO MATCH COUNTERTOP MATERIAL, UNO
- PROVIDE 4" BACKSPLASH, UNO
- PROVIDE 1" OVERHANG AT ALL COUNTERTOPS, UNO
- PROVIDE ONE 2" DIAMETER GROMMET PER 30 INCH OF KNEE-SPACE AT FLOATING COUNTERS. COORDINATE EXACT LOCATION WITH OWNER
- REFER TO PLUMBING DRAWINGS FOR LOCATIONS OF SINKS AND OTHER PLUMBING FIXTURES LOCATED WITHIN CASEWORK
- ALL BASE CABINETS ARE TO BE 24" DEEP, UNO
- ALL UPPER CABINETS ARE TO BE 16" DEEP, UNO
- COORDINATE VESTIBULE DOOR CONTROL BUTTON LOCATION AT WITH OWNER
- PROVIDE WOOD CLEAT AT BACK AND SIDE WALLS OF ALL COUNTERTOPS WITH NO BASE CABINET BELOW. PAINT CLEAT TO MATCH ADJ WALL.
- RE: A681 ROOM FINISH SCHEDULE FOR MORE INFORMATION

**Distribution Center**  
Liberty Public Schools  
1138 Southview Dr, Liberty, MO 64068

REVISIONS:

#	Description	Date
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OCTOBER 10, 2023  
Kevin E. Nelson  
A-2019015618

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JOB NO: 23021.00  
DRAWN BY: GR  
CHECKED BY: JB / NY  
DATE: 10.10.2023

**A622**

INTERIOR ELEVATIONS



05 50 00.A14	BOLLARDS
10 44 16.A01	FIRE EXTINGUISHER
12 59 00	

Hollis + Miller Architects  
Missouri State Certificate of Authority  
Architecture # 0000161  
Structure # 2006031333

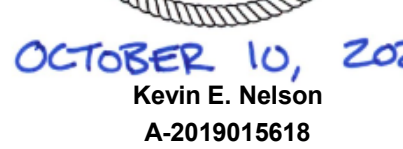
**Bob D. Campbell & Co.**  
Structural Engineer  
State Certificate of Authority # 00044  
4338 Belleview Ave.  
Kansas City, MO 64111  
816.531.4144 phone  
816.531.8572 fax

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Food Service Consultant  
2140 W Grand St Suite B  
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ID	MATERIAL	COLOR/FINISH
CP1	Acoustical Panels	2024
AG1	Corner Guard	Stainless Steel
CG2	End Of Wall Guard	Stainless Steel
HP1	High Performance Coating	SW 7004 Snowbound
HP2		NOT USED
HP3	High Performance Coating	SW 7067 Cityscape
HP4	High Performance Coating	SW 7603 Poolhouse
P1	Paint	SW 7004 Snowbound
P2		NOT USED
P3	Paint	SW 7067 Cityscape
P4	Paint	SW 7603 Poolhouse
PL1	Plastic Laminite	Italian Silver Ash 8217K-16
RB1	Resilient Base & Accessories	48 Grey
SS1	Simulated Stone	Frosty White Mirage   573MG
T1		NOT USED
T2	Title	Matte Chalkboard, 8" x 24"
T3	Title	Matte Arctic White, 8" x 24"
WP1	Wall Paneling	554 Mission White
WP2	Wall Paneling	94 Summer Fog
WP3	Wall Paneling	3003 - Britte Finish

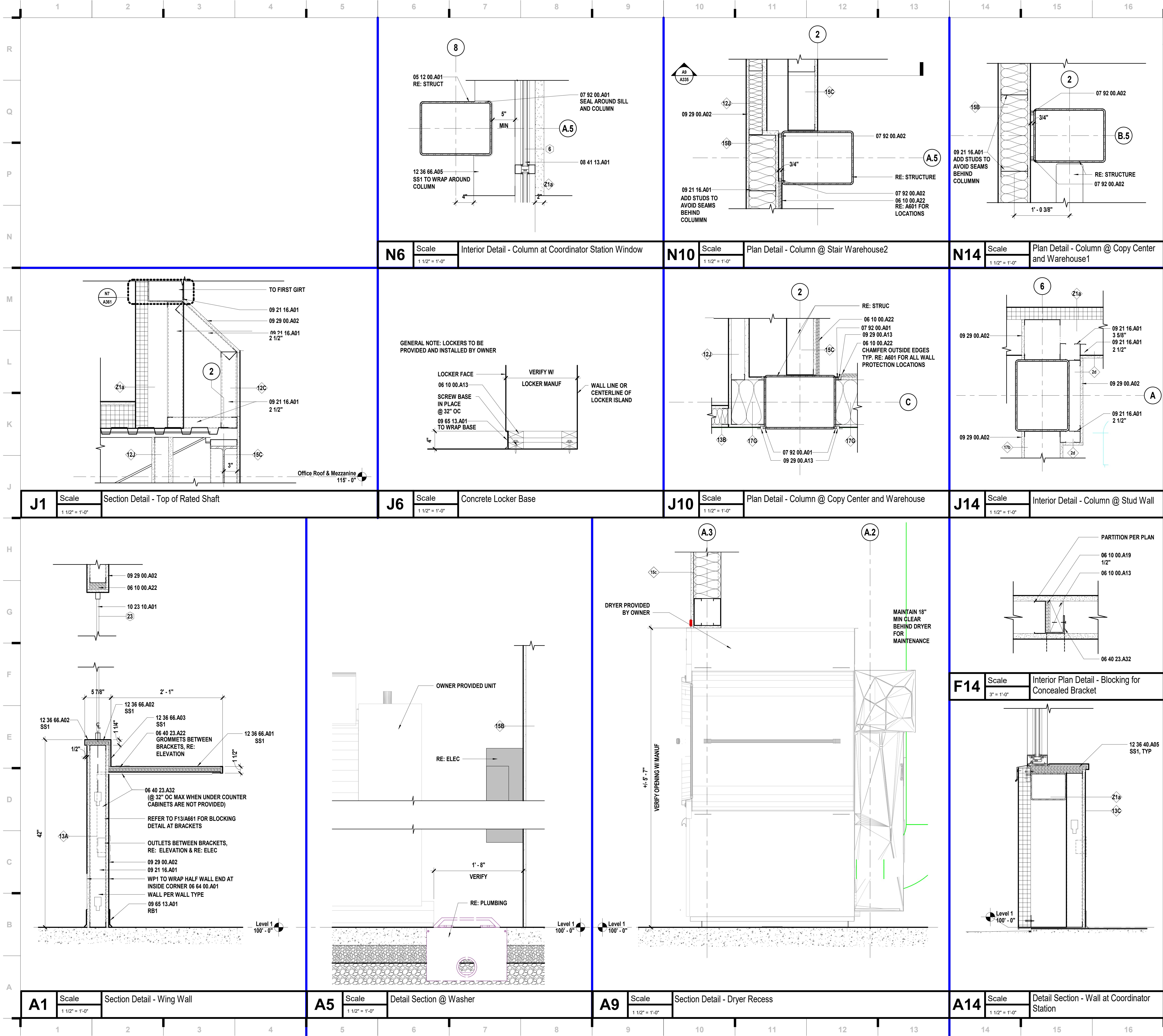
1. REFER TO SHEET G000 FOR SHEET INDEX
2. COORDINATE LOCATIONS WHERE BACKING REQUIRED FOR WALL HUNG CASEWORK, MARKERBOARDS, AND TECHNOLOGY
3. COLOR/MATERIAL TRANSITIONS ARE NOTED WHEN THEY DO NOT OCCUR AT INSIDE CORNERS
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15. COORDINATE VESTIBULE DOOR CONTROL BUTTON LOCATION AT WITH OWNER
16. PROVIDE WOOD CLEAT AT BACK AND SIDE WALLS OF ALL COUNTERTOPS WITH NO BASE CABINET BELOW. PAINT CLEAT TO MATCH ADJ WALL.
17. RE: A681 ROOM FINISH SCHEDULE FOR MORE INFORMATION

1138 Southview Dr, Liberty, MO 64068



# A623





### SHEET KEYNOTE LEGEND

05 12 00.A01	STRUCTURAL STEEL
06 10 00.A13	WOOD BLOCKING/NAILERS
06 10 00.A19	PLYWOOD BLOCKING AND BACKING PANELS
06 10 00.A22	PRESERVATIVE TREATED PLYWOOD BLOCKING
06 40 23.A32	GROMMETS
06 40 23.A32	CONCEALED BRACKET
07 92 00.A01	FRP WALL PANELS - SHEET
07 92 00.A02	SEALANT
08 41 13.A01	SEALANT W/BACKER ROD
09 21 16.A01	THERMAL BROKEN STOREFRONT FRAMING (4.5")
09 21 16.A01	NON-STRUCTURAL FRAMING
09 29 00.A02	GYPSUM BOARD - TYPE X
09 29 00.A13	REVEAL TRIM
09 65 13.A01	RESILIENT BASE
10 23 10.A01	GLAZED INTERIOR WALL ASSEMBLIES
12 36 40.A05	STONE SILLS
12 36 66.A01	SOLID SURFACE COUNTERTOP
12 36 66.A02	SOLID SURFACE TRANSACTION COUNTER
12 36 66.A03	SOLID SURFACE SPLASHES
12 36 66.A05	SOLID SURFACE SILL

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Castle Rock, CO 80104  
1 720.949.1689

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Civil Engineer  
State Certificate of Authority  
Engineering #2001009364  
Landscaping #2006027139  
Surveying #2006027138  
11827 W 112th St #200  
Overland Park, KS 66210  
913.317.5590 phone

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**CONSTRUCTION DOCUMENTS**

**Distribution Center**  
Liberty Public Schools  
1138 Southview Dr, Liberty, MO 64068

REVISIONS:

#	Description	Date

STATE OF MISSOURI  
KEVIN E. NELSON  
A-2019015618  
ARCHITECT

OCTOBER 10, 2023  
Kevin E. Nelson  
A-2019015618

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DATE: 10.10.2023

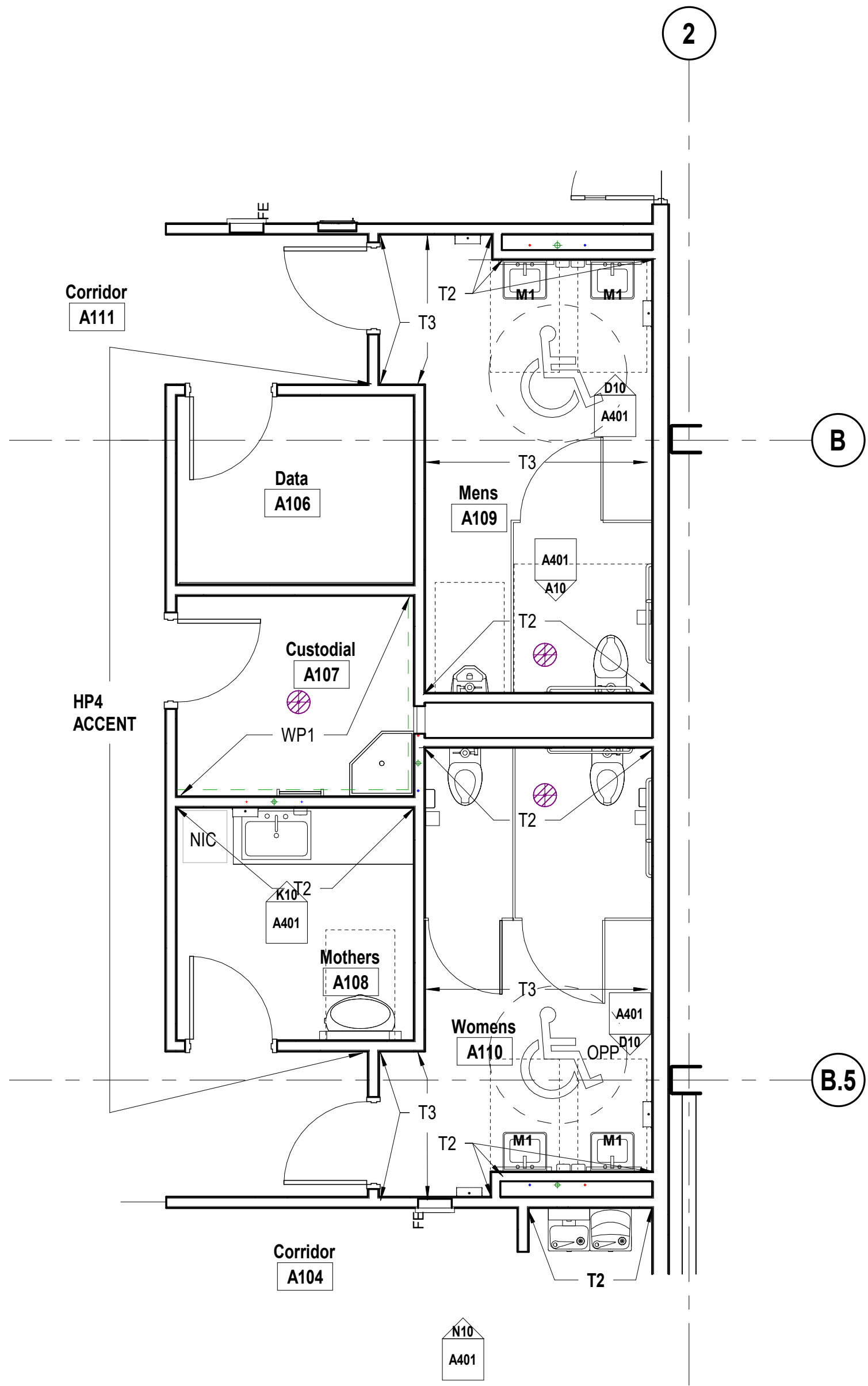
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INTERIOR DETAILS

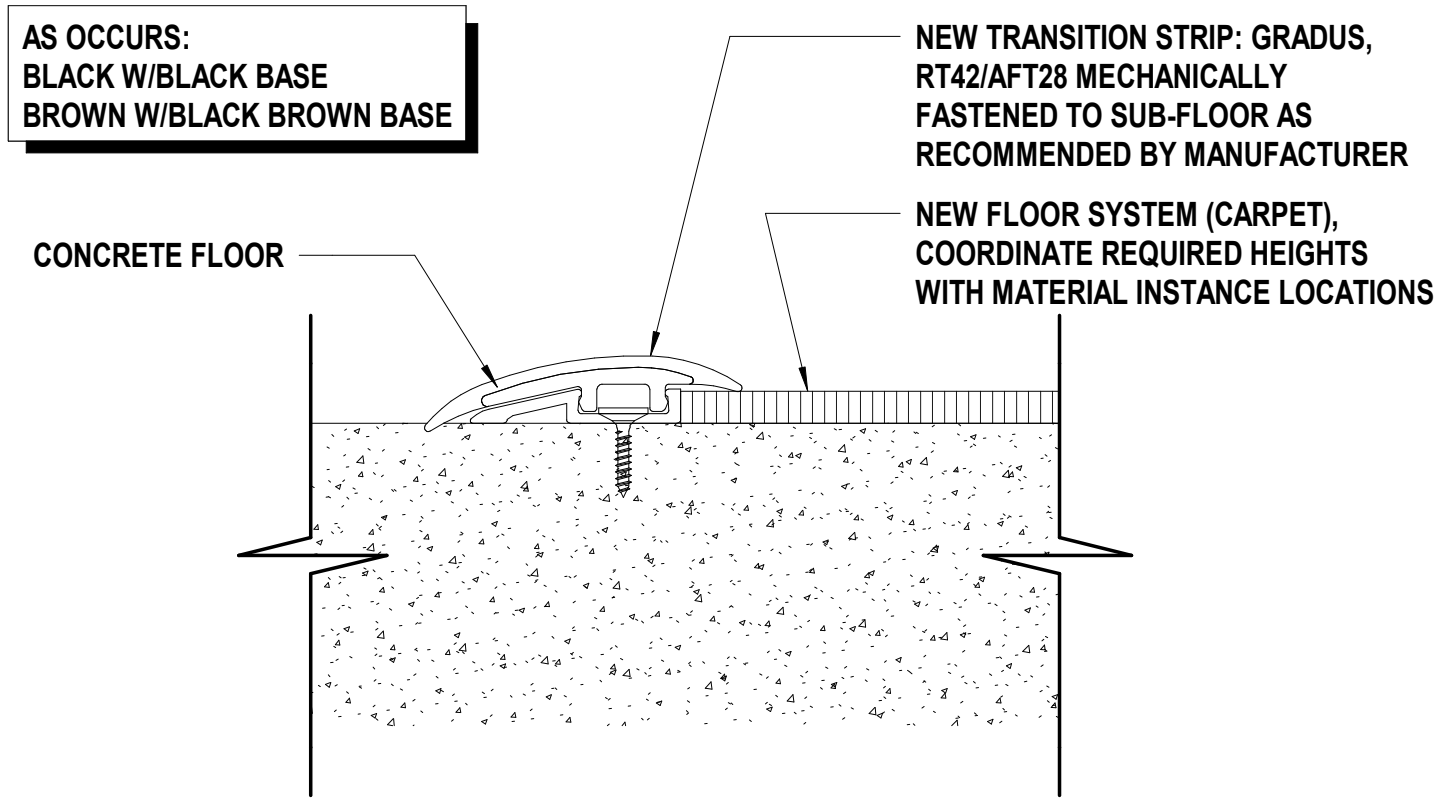


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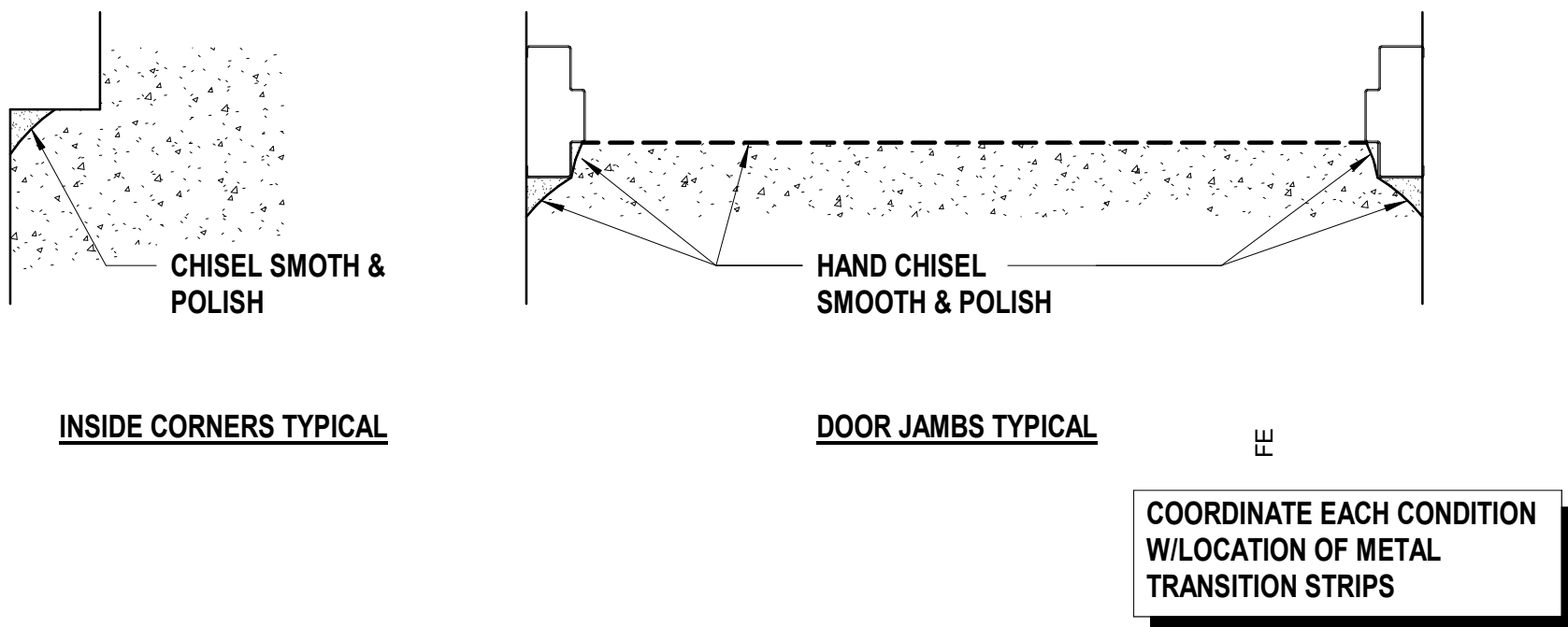
ROOM FINISH SCHEDULE									
ROOM		Floor Finish	Base Finish	North	East	South	West	Ceiling Finish	Finish Remarks
NO	Name								
A100	Vestibule	C1	RB1	HP1	HP1	HP1	HP1	CLG1	
A101	Work Area	C2	RB1	HP1	P1/MP1	HP1	HP1	CLG1	
A102	Copy Center	C2 / CON1	RB1	P1 / WP2 / WP3	P1 / WP3	P1 / WP2	P1 / WP2	CLG2	1, 7
A103	Break Area	RF1	RB1	P1 / P4 /WP1	T3/P4	T3/P4	P1 / P4 /WP1	CLG1	3
A104	Corridor	C2	RB1	HP1/P4/T3	HP1	WP1/P1	HP1	CLG2	
A105	Workstations	C2	RB1	HP1	HP4	HP1	HP1	CLG1	
A106	Data	CON1	RB1	P1	P1	P1	P1	--	
A107	Custodial	CON1	RB1	P1	P1 / WP2	P1 / WP2	P1	--	3
A108	Mothers	C2	RB1	T2	P1	P1	P1	CLG1	
A109	Mens	FT1	FT1	T2/T3	T3	T2	T3	CLG2 / P1	
A110	Womens	FT1	FT1	T2	T3	T2/T3	T3	CLG2 / P1	
A111	Corridor	C2	RB1	HP1	HP1	HP1	HP1	CLG1	
A112	Conference	C2	RB1	P1	P1	P1	P1	CLG1	
A113	Office	C2	RB1	P1	P1	P1	P1	CLG1	
A114	Office	C2	RB1	P1	P1	P1	P1	CLG1	
A115	Not Used	-	-	-	-	-	-	-	
A116	IT / Pony Mail / Flex	CON1	RB1	--	HP4	--	--	OTS, P1	4, 5, 6
A117	Laundry	CON1	RB1	HP1/ WP1	HP1/ WP1	HP1/ WP1	HP1/ WP1	CLG2	3
A118	MEP	CON1	RB1	--	P1	P1	P1	--	
A119	Restroom	FT1	FT1	T3	T2	T3	T2	CLG2	
A120	Coordinator	CON1	RB1	P1	HP1	--	HP4	CLG2	
A121	Swing	CON1	RB1	--	--	HP1	OTS, P1	4, 5	
A122	Warehouse	CON1	RB1	HP4	--	HP1	HP1	OTS, P1	4, 5
A123	Flex / Charging	CON1	RB1	--	--	HP1	OTS, P1	4, 5	
A124	Dry Food Warehouse	CON1	RB1	HP1	HP1	--	HP1	OTS, P1	4, 5
A125	Cooler	--	--	--	--	--	--	See Cooler / Freezer Specifications	
A126	Freezer	--	--	--	--	--	--	See Cooler / Freezer Specifications	
A127	Trash Yard	CON2	--	--	--	--	--		
A200	Mezzanine	CON1	RB1	HP1	--	--	--	OTS, P1	2, 5, 6



D5	Scale	Enlarged Finish Plan - Office Restrooms - Level 1
	1/4" = 1'-0"	



A1	Scale	Flooring Reducer Strip Detail
	1/2" = 1'-0"	



A5	Scale	Details @ Polished Concrete
	1 1/2" = 1'-0"	

## MATERIAL FINISH LEGEND

MATERIAL	ID	KEYNOTE	MANUFACTURER	STYLE/MODEL NO	COLOR/FINISH	COMMENTS
Acoustical Panels	AP1	09 84 33.A01	Carnegie	Xorel Meteor 6427	2024	
Carpet	C1	09 68 13.A01	Interface	Step Repeat Collection SR799	104935 Granite	Ashlar: Quarter Turn
Carpet	C2	09 68 13.A01	Interface	Naturally Weathered	106025 Wrought Iron	Install: Ashlar
Corner Guard	CG1	10 26 00.A03	Wallguard	Defender Series 2330, 3 1/2"	Stainless Steel	Full Height 8'-0"
End Of Wall Guard	CG2	10 26 00.A06	Wallguard	Endwall 2330.1, 2"	Stainless Steel	Full Height 8'-0" Verify Wall Depth
Ceiling	CLG1	09 51 13.A01	USG	Radar Basic #2310, 24" x 48"	White	
Ceiling	CLG2	09 51 13.A01	USG	Clean Room 56091, 24" x 48"	White	Laundry & Restrooms
Concrete Finish	CON1	03 30 00.A21		Sealed Concrete		
Concrete Finish	CON2	03 30 00.A18		Broom Finished Concrete		
Floor (Poured) Topping	FT1	09 67 23.A01	Desco	Cremona TG Series	Quartz Colors 33% SW7653, 32% SW7018, 35% SW7625	
High Performance Coating	HP1	09 96 00	Sherwin Williams		SW 7004 Snowbound	
High Performance Coating	HP2				NOT USED	
High Performance Coating	HP3	09 96 00	Sherwin Williams		SW 7067 Cityscape	
High Performance Coating	HP4	09 96 00	Sherwin Williams		SW 7603 Poolhouse	
Paint	P1	09 91 23	Sherwin Williams		SW 7004 Snowbound	
Paint	P2				NOT USED	
Paint	P3	09 91 23	Sherwin Williams		SW 7067 Cityscape	
Paint	P4	09 91 23	Sherwin Williams		SW 7603 Poolhouse	
Plastic Laminate	PL1	12 32 00	Wilsonart		Italian Silver Ash 8217K-16	AEON Scratch Resistance
Resilient Base & Accessories	RB1	09 65 13.A01	Tarkett Thermoset Baseworks		4" Cove	
Resilient Flooring	RF1	09 65 19.A01	Interface	Brushed Lines LVT	A01611 Mousse	Install: Ashlar
Simulated Stone	SS1	12 36 66	Wilsonart		Frosty White Mirage   573MG	
Tile	T1				NOT USED	
Tile	T2	09 30 00.A01	Daltile	Color Wheel Linear	Matte Chalkboard, 8" x 24"	Grout: Mapei 47 Charcoal
Tile	T3	09 30 00.A01	Daltile	Color Wheel Linear	Matte Arctic White, 8" x 24"	Grout: Mapei 27 Silver
Wall Paneling	WP1	10 26 00.A04	Pawling	WC-60 Wall Protection	554 Mission White	FRP Panels
Wall Paneling	WP2	10 26 00.A04	Pawling	WC-60 Wall Protection	94 Summer Fog	FRP Panels
Wall Paneling	WP3	10 26 00.A04	Wallguard	Diamond Plate Wall Protection	3003 - Brite Finish	Copy Center

## ROOM SCHEDULE REMARKS

- WP2 & WP3 TO EXTEND TO 4'-0" AFF. RE: FINISH FLOOR PLANS AND INTERIOR ELEVATIONS FOR LOCATIONS AND TRANSITION CLARIFICATION.
- ALL INSTANCES OF GYPSUM WALLS TO BE PAINTED HP1 UNO IN ELEVATIONS; INTERIOR OF INSULATED METAL PANEL WALL NOT TO RECEIVE APPLIED FINISH.
- WP1 TO EXTEND TO 4'-0" AFF. RE: FINISH FLOOR PLANS AND INTERIOR ELEVATIONS FOR LOCATIONS AND TRANSITION CLARIFICATION.
- PLYWOOD PAINTED TO MATCH GYP WALL TO EXTEND TO 9'-0" AFF. RE: FINISH FLOOR PLANS AND INTERIOR ELEVATIONS FOR LOCATIONS AND TRANSITION CLARIFICATION.
- ALL EXPOSED STRUCTURE (OTS) TO BE PAINTED HP1. RE: FINISH PLAN FOR COLUMN FINISHES
- MEZZANINE & STAIR RAILING & STRINGER TO BE PAINTED HP4 UNO ON DRAWINGS.
- RE: INTERIOR ELEVATIONS FOR ACCOUSTIC PANEL AP1 LOCATIONS

## GENERAL FINISH NOTES

- REFER TO FINISH FLOOR PLANS, REFLECTED CEILING PLANS, ELEVATIONS, AND DETAILS FOR EXTENT OF MULTIPLE FINISHES.
- DO NOT PAINT NATURAL OR MANUFACTURED STONE, BRICK, GLAZED BLOCK OR ANY OTHER PREFINISHED MATERIALS.
- DO NOT PAINT ALUMINUM OR OTHER NON-FERROUS METALS THAT ARE PREFINISHED.
- MATCH VERTICAL FINISH OF ALL INTERIOR GYPSUM BOARD SOFFITS TO HORIZONTAL FINISH AS NOTED ON RCP OR ROOM FINISH SCHEDULE, UNO.
- PAINT ALL EXPOSED CEILINGS DESIGNATED AS 'OTS' AS INDICATED ON ROOM FINISH SCHEDULE. PAINTING INCLUDES, BUT IS NOT LIMITED TO: EXPOSED STRUCTURE, JOISTS, METAL DECKING, EXISTING TECTUM PANELS, DUCTWORK AND MECHANICAL EQUIPMENT.
- PAINT ALL EXPOSED STEEL, UNO. RE: A601 & INTERIOR ELEVATIONS FOR COLUMN FINISH.
- PAINT ALL INTERIOR HOLLOW METAL DOORS AND FRAMES COLOR P3, UNO.
- PAINT OR FINISH THE FOLLOWING ITEMS TO MATCH ADJACENT PAINT OR FINISH:
  - ELECTRICAL PANELS IN FINISHED ROOMS
  - GRILLES, LOUVERS ETC. PRIMED OR SPECIFIED TO BE PAINTED
  - UNFINISHED SPEAKER OUTLET GRILLES
  - VISIBLE PORTIONS OF DUCTWORK AND MECH EQUIPMENT BEHIND VENTS, GRILLES AND DIFFUSERS
- CONCEALED COUNTERTOP BRACKETS TO BE EQUALLY SPACED ALONG FULL LENGTH OF WORKSURFACE AND ARE NOT TO EXCEED 32" O.C. BETWEEN EACH BRACKET

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Kansas City, MO 64108  
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1 720.949.1689

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Hollis + Miller Architects  
Missouri State Certificate of Authority  
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MKEC Engineering, Inc.  
Civil Engineer  
State Certificate of Authority  
Engineering #2001009364  
Landscaping #2006027139  
Surveying #2006027138  
11827 W 112th St #200  
Overland Park, KS 66210  
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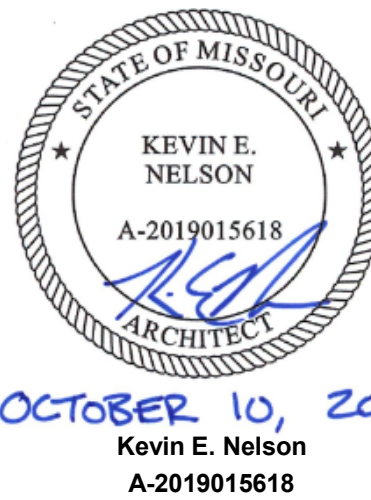
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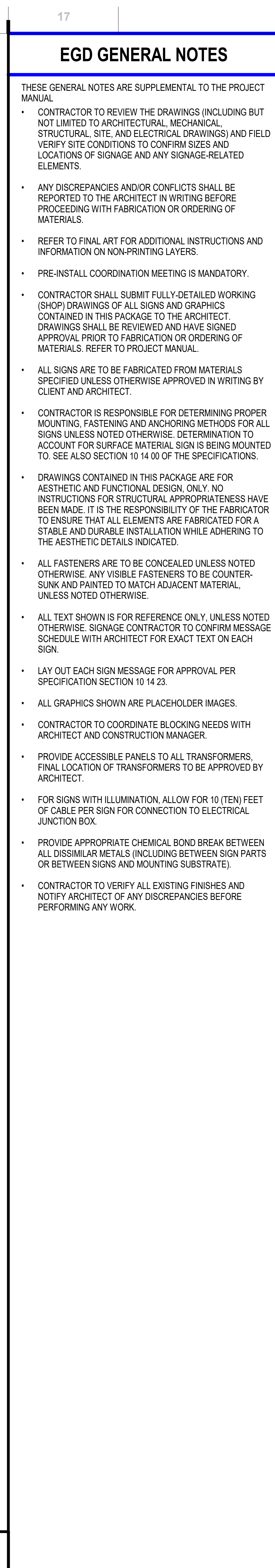


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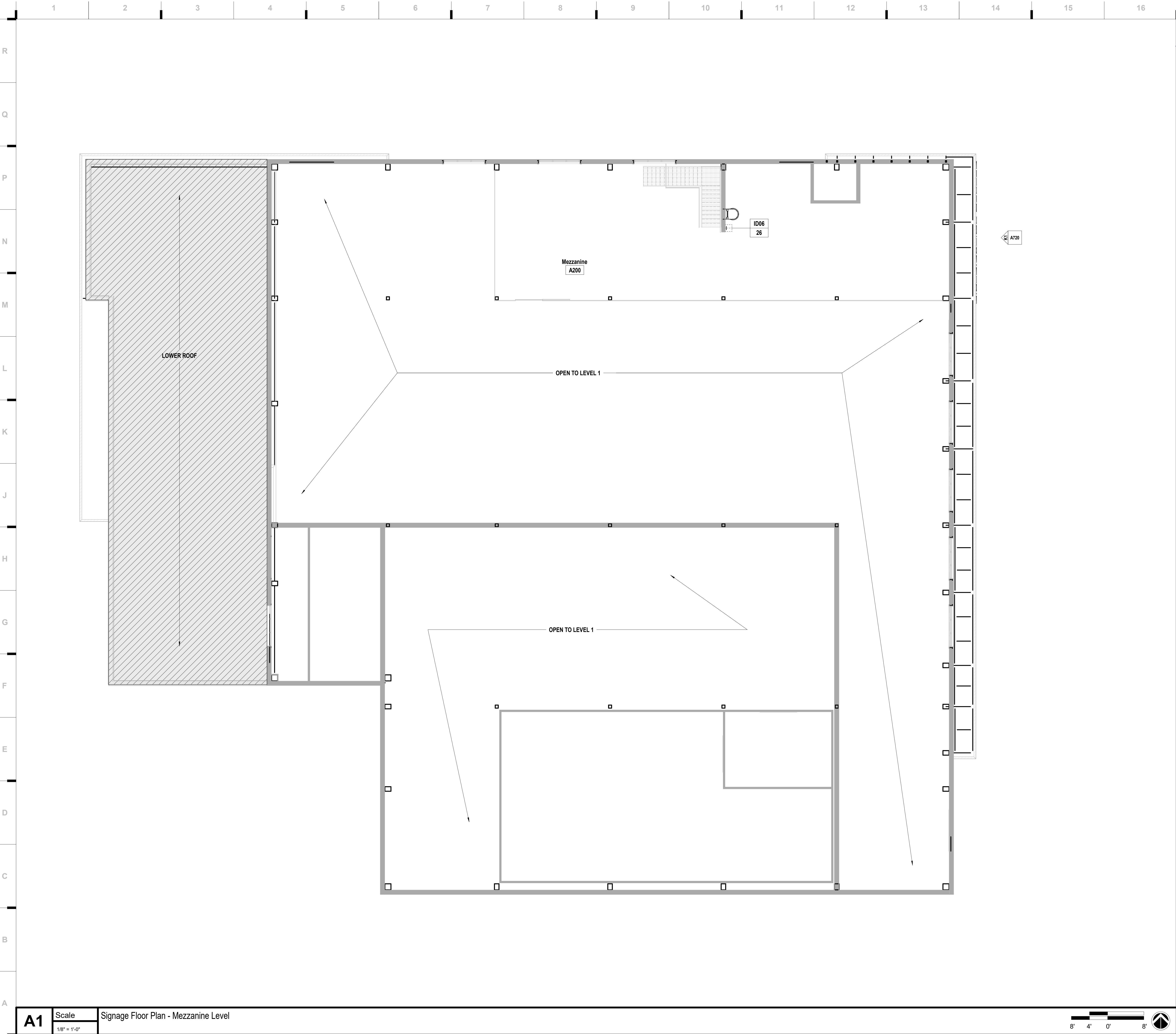
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### EGD GENERAL NOTES

THESE GENERAL NOTES ARE SUPPLEMENTAL TO THE PROJECT MANUAL.

- CONTRACTOR TO REVIEW THE DRAWINGS (INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, MECHANICAL, STRUCTURAL, SITE, AND ELECTRICAL DRAWINGS) AND FIELD VERIFY SITE CONDITIONS TO CONFIRM SIZES AND LOCATIONS OF SIGNAGE AND ANY SIGNAGE-RELATED ELEMENTS.
- ANY DISCREPANCIES AND/OR CONFLICTS SHALL BE REPORTED TO THE ARCHITECT IN WRITING BEFORE PROCEEDING WITH FABRICATION OR ORDERING OF MATERIALS.
- REFER TO FINAL ART FOR ADDITIONAL INSTRUCTIONS AND INFORMATION ON NON-PRINTING LAYERS.
- PRE-INSTALL COORDINATION MEETING IS MANDATORY.
- CONTRACTOR SHALL SUBMIT FULLY-DETAILED WORKING (SHOP) DRAWINGS OF ALL SIGNS AND GRAPHICS CONTAINED IN THIS PACKAGE TO THE ARCHITECT. DRAWINGS SHALL BE REVIEWED AND HAVE SIGNED APPROVAL PRIOR TO FABRICATION OR ORDERING OF MATERIALS. REFER TO PROJECT MANUAL.
- ALL SIGNS ARE TO BE FABRICATED FROM MATERIALS SPECIFIED UNLESS OTHERWISE APPROVED IN WRITING BY CLIENT AND ARCHITECT.
- CONTRACTOR IS RESPONSIBLE FOR DETERMINING PROPER MOUNTING, FASTENING AND ANCHORING METHODS FOR ALL SIGNS UNLESS NOTED OTHERWISE. DETERMINATION TO ACCOUNT FOR SURFACE MATERIAL SIGN IS BEING MOUNTED TO. SEE ALSO SECTION 10 14 00 OF THE SPECIFICATIONS.
- DRAWINGS CONTAINED IN THIS PACKAGE ARE FOR AESTHETIC AND FUNCTIONAL DESIGN, ONLY. NO INSTRUCTIONS FOR STRUCTURAL APPROPRIATENESS HAVE BEEN MADE. IT IS THE RESPONSIBILITY OF THE FABRICATOR TO ENSURE THAT ALL ELEMENTS ARE FABRICATED FOR A STABLE AND DURABLE INSTALLATION WHILE ADHERING TO THE AESTHETIC DETAILS INDICATED.
- ALL FASTENERS ARE TO BE CONCEALED UNLESS NOTED OTHERWISE. ANY VISIBLE FASTENERS TO BE COUNTER-SUNK AND PAINTED TO MATCH ADJACENT MATERIAL, UNLESS NOTED OTHERWISE.
- ALL TEXT SHOWN IS FOR REFERENCE ONLY. UNLESS NOTED OTHERWISE, SIGNAGE CONTRACTOR TO CONFIRM MESSAGE SCHEDULE WITH ARCHITECT FOR EXACT TEXT ON EACH SIGN.
- LAY OUT EACH SIGN MESSAGE FOR APPROVAL PER SPECIFICATION SECTION 10 14 23.
- ALL GRAPHICS SHOWN ARE PLACEHOLDER IMAGES.
- CONTRACTOR TO COORDINATE BLOCKING NEEDS WITH ARCHITECT AND CONSTRUCTION MANAGER.
- PROVIDE ACCESSIBLE PANELS TO ALL TRANSFORMERS. FINAL LOCATION OF TRANSFORMERS TO BE APPROVED BY ARCHITECT.
- FOR SIGNS WITH ILLUMINATION, ALLOW FOR 10 (TEN) FEET OF CABLE PER SIGN FOR CONNECTION TO ELECTRICAL JUNCTION BOX.
- PROVIDE APPROPRIATE CHEMICAL BOND BREAK BETWEEN ALL DISSIMILAR METALS (INCLUDING BETWEEN SIGN PARTS OR BETWEEN SIGNS AND MOUNTING SUBSTRATE).
- CONTRACTOR TO VERIFY ALL EXISTING FINISHES AND NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE PERFORMING ANY WORK.

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Olathe, KS 66061  
913.345.2127 phone

**Fellers Food Service Equipment & Design**  
Food Service Consultant  
2140 W Grand St Suite 8  
Springfield, MO 65802  
417.862.0812 phone

**CONSTRUCTION DOCUMENTS**

**Distribution Center**  
Liberty Public Schools  
1138 Southview Dr, Liberty, MO 64068

**REVISIONS:**

#	Description	Date
---	-------------	------

**STATE OF MISSOURI**

KEVIN E. NELSON  
A-2019015618  
ARCHITECT

OCTOBER 10, 2023

Kevin E. Nelson  
A-2019015618

This Professional Address and Affiliation is the signed approval of the architect and shall remain in effect for the entire term of the contract. Any change in address or affiliation shall be submitted to the client and the architect in writing. The architect and the client shall be responsible for the accuracy of the information provided. The architect and the client shall be responsible for the accuracy of the information provided. The architect and the client shall be responsible for the accuracy of the information provided.

JOB NO: 23021.00  
DRAWN BY: MM  
CHECKED BY: JCC  
DATE: 10.10.2023

# A702

**SIGNAGE & ENVIRONMENTAL GRAPHICS FLOOR PLAN - OVERALL - MEZZ LEVEL**



10/9/2023 20:33:22

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
R																	
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J																	
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ADA & Code Signage Schedule							
Sign #	Sign Type	# On Sign	Message On Sign	Room: Number	Name on Drawing	Mounting Surface/ Method	Comments
01	ID05	-	EXIT	A120	Coordinator	MOUNTED ON GLASS	
02	ID04	-	RESTROOM	A119	Restroom		
03	ID01	TBD	-	A122	Warehouse		
04	ID03	-	MEP	A118	MEP		
05	ID03	-	TBD	A117	Laundry		
06	ID05	-	EXIT	A118	MEP		
07	ID05	-	EXIT	A116	IT / Pony Mail / Flex		
08	ID05	-	EXIT	A122	Warehouse		
09	ID01	TBD	-	A111	Corridor	MOUNTED ON GLASS	
10	ID01	TBD	-	A111	Corridor	MOUNTED ON GLASS	
11	ID01	TBD	-	A111	Corridor		
12	ID04	-	MENS	A109	Mens		
13	ID03	-	DATA	A106	Data		
14	ID03	-	CUSTODIAL	A107	Custodial		
15	ID03	-	MOTHERS ROOM	A108	Mothers		
16	ID04	-	WOMENS	A110	Womens		
17	ID02	TBD	TBD	A122	Warehouse		
18	ID05	-	EXIT	A104	Corridor	MOUNTED ON GLASS	
19	ID05	-	EXIT	A100	Vestibule	MOUNTED ON GLASS	
20	ID02	TBD	TBD	A102	Copy Center		
21	ID05	-	EXIT	A102	Copy Center		
22	ID02	TBD	TBD	A102	Copy Center		
23	ID02	TBD	TBD	A124	Dry Food Warehouse		
24	ID05	-	EXIT	A124	Dry Food Warehouse		
25	ID05	-	EXIT	A123	Flex / Charging		
26	ID06	-	ROOF ACCESS	A200	Mezzanine		

Environmental Graphics Schedule					
Sign #	Sign Type	Keynote	Description		Comments
EGD.01	X01	10 14 00.A30	"DISTRIBUTION CENTER"		
EGD.02	X02	10 14 00.A30	"1"		
EGD.03	X02	10 14 00.A30	"2"		
EGD.04	X02	10 14 00.A30	"3"		
EGD.05	X02	10 14 00.A30	"4"		
EGD.06	X02	10 14 00.A30	"5"		
EGD.07	X03	10 14 00.A43	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT		
EGD.08	X03	10 14 00.A43	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT		
EGD.09	X03	10 14 00.A43	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT		
EGD.10	X04	10 14 00.A43 & 10 14 00.A30	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT	MOUNTED ON GLASS DOOR	
EGD.12	X03	10 14 00.A43	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT		
EGD.13	X03	10 14 00.A43	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT		
EGD.14	X03	10 14 00.A43	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT		
EGD.15	X04	10 14 00.A43 & 10 14 00.A30	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT	MOUNTED ON GLASS DOOR	
EGD.16	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT		
EGD.17	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT		
EGD.18	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT		
EGD.19	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT		
EGD.20	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT		
EGD.21	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT		
EGD.22	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT		
EGD.23	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT		
EGD.24	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT		
EGD.25	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT		
EGD.26	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT		
EGD.27	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT		
EGD.28	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT		
EGD.29	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT		
EGD.30	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT		
EGD.31	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT		
EGD.32	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT		
EGD.33	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT		
EGD.34	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT		
EGD.35	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT		
EGD.36	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT		
EGD.37	S02	10 14 00.A10	NUMBER ON SIGN TO BE DETERMINED BY DISTRICT		
EGD.38	X05	10 14 00.A43	FIRE SPRINKLER ROOM VINYL LETTERS		
EGD.39	X06	10 14 00.A43	FIRE DEPARTMENT VINYL LETTERS		
EGD.40	X06	10 14 00.A43	FIRE DEPARTMENT VINYL LETTERS		

EGD GENERAL NOTES

- THESE GENERAL NOTES ARE SUPPLEMENTAL TO THE PROJECT MANUAL.
- CONTRACTOR TO REVIEW THE DRAWINGS (INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, MECHANICAL, STRUCTURAL, SITE, AND ELECTRICAL DRAWINGS) AND FIELD VERIFY SITE CONDITIONS TO CONFIRM SIZES AND LOCATIONS OF SIGNAGE AND ANY SIGNAGE-RELATED ELEMENTS.
  - ANY DISCREPANCIES AND/OR CONFLICTS SHALL BE REPORTED TO THE ARCHITECT IN WRITING BEFORE PROCEEDING WITH FABRICATION OR ORDERING OF MATERIALS.
  - REFER TO FINAL ART FOR ADDITIONAL INSTRUCTIONS AND INFORMATION ON NON-PRINTING LAYERS.
  - PRE-INSTALL COORDINATION MEETING IS MANDATORY.
  - CONTRACTOR SHALL SUBMIT FULLY-DETAILED WORKING (SHOP) DRAWINGS OF ALL SIGNS AND GRAPHICS CONTAINED IN THIS PACKAGE TO THE ARCHITECT. DRAWINGS SHALL BE REVIEWED AND HAVE SIGNED APPROVAL PRIOR TO FABRICATION OR ORDERING OF MATERIALS. REFER TO PROJECT MANUAL.
  - ALL SIGNS ARE TO BE FABRICATED FROM MATERIALS SPECIFIED UNLESS OTHERWISE APPROVED IN WRITING BY CLIENT AND ARCHITECT.
  - CONTRACTOR IS RESPONSIBLE FOR DETERMINING PROPER MOUNTING, FASTENING AND ANCHORING METHODS FOR ALL SIGNS UNLESS NOTED OTHERWISE. DETERMINATION TO ACCOUNT FOR SURFACE MATERIAL SIGN IS BEING MOUNTED TO. SEE ALSO SECTION 10 14 00 OF THE SPECIFICATIONS.
  - DRAWINGS CONTAINED IN THIS PACKAGE ARE FOR AESTHETIC AND FUNCTIONAL DESIGN. ONLY. NO INSTRUCTIONS FOR STRUCTURAL APPROPRIATENESS HAVE BEEN MADE. IT IS THE RESPONSIBILITY OF THE FABRICATOR TO ENSURE THAT ALL ELEMENTS ARE FABRICATED FOR A STABLE AND DURABLE INSTALLATION WHILE ADHERING TO THE AESTHETIC DETAILS INDICATED.
  - ALL FASTENERS ARE TO BE CONCEALED UNLESS NOTED OTHERWISE. ANY VISIBLE FASTENERS TO BE COUNTER-SUNK AND PAINTED TO MATCH ADJACENT MATERIAL, UNLESS NOTED OTHERWISE.
  - ALL TEXT SHOWN IS FOR REFERENCE ONLY. UNLESS NOTED OTHERWISE, SIGNAGE CONTRACTOR TO CONFIRM MESSAGE SCHEDULE WITH ARCHITECT FOR EXACT TEXT ON EACH SIGN.
  - LAY OUT EACH SIGN MESSAGE FOR APPROVAL PER SPECIFICATION SECTION 10 14 23.
  - ALL GRAPHICS SHOWN ARE PLACEHOLDER IMAGES.
  - CONTRACTOR TO COORDINATE BLOCKING NEEDS WITH ARCHITECT AND CONSTRUCTION MANAGER.
  - PROVIDE ACCESSIBLE PANELS TO ALL TRANSFORMERS. FINAL LOCATION OF TRANSFORMERS TO BE APPROVED BY ARCHITECT.
  - FOR SIGNS WITH ILLUMINATION, ALLOW FOR 10 (TEN) FEET OF CABLE PER SIGN FOR CONNECTION TO ELECTRICAL JUNCTION BOX.
  - PROVIDE APPROPRIATE CHEMICAL BOND BREAK BETWEEN ALL DISSIMILAR METALS (INCLUDING BETWEEN SIGN PARTS OR BETWEEN SIGNS AND MOUNTING SUBSTRATE).
  - CONTRACTOR TO VERIFY ALL EXISTING FINISHES AND NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE PERFORMING ANY WORK.

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1828 Walnut Street Suite 922

Kansas City, MO 64108

1.816.442.7700

115 Wilcox Street Suite 210

Castle Rock, CO 80104

1.720.949.1689

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Hollis + Miller Architects

Missouri State Certificate of Authority

Architecture # 00001051

Structure # 2006017333

MKEC Engineering, Inc.

Civil Engineer

State Certificate of Authority

Engineering #2001009364

Landscaping #2006027139

Surveying #2006027138

11827 W 112th St #200

Overland Park, KS 66210

913.317.5590 phone

Bob D. Campbell & Co.

Structural Engineer

State Certificate of Authority # 000442

4338 Bellevue Ave.

Kansas City, MO 64111

816.531.4144 phone

816.531.8572 fax

Smith & Boucher Engineers

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#	Description	Date
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STATE OF MISSOURI

KEVIN E. NELSON

A-2019015618

ARCHITECT

OCTOBER 10, 2023

Kevin E. Nelson

A-2019015618

The Professional Architects seal affixed to this sheet signifies that the project and design shown on this sheet are the property of the architect, and that the architect is responsible for the design and construction of the project. The architect is not responsible for the construction of the project.

JOB NO: 23021.00

DRAWN BY: MM

CHECKED BY: JCC

DATE: 10.10.2023

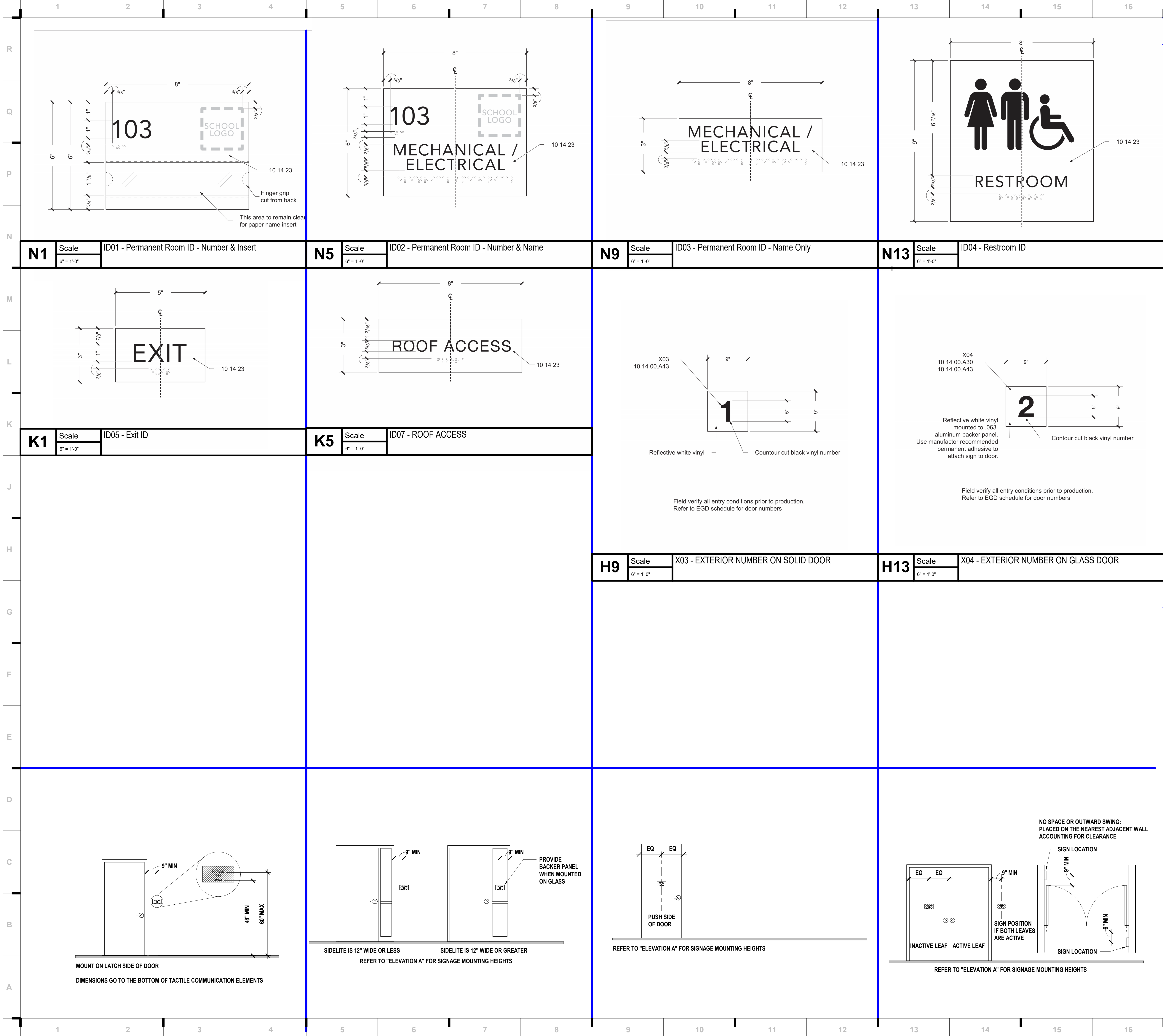
A711

SIGNAGE & ENVIRONMENTAL GRAPHICS SCHEDULES

Please consider the environment before printing this sheet.



10/9/2023 20:33:29



### SHEET KEYNOTE LEGEND

**10 14 23 - ADA SIGNAGE**

10 14 00.A30 - FLAT CUT ALUMINUM

10 14 00.A43 - VINYL FILM

ARTWORK TO BE SUPPLIED BY ARCHITECT

ALL DIMENSIONS AND MOUNTING CONDITIONS MUST BE VERIFIED IN THE FIELD PRIOR TO FINAL ARTWORK RELEASE

ALL ATTACHMENTS TO BE CONCEALED UNO. PROVIDE BLOCKING AS REQUIRED FOR SECURE ANCHORAGE. SEE ARCHITECTURAL WALL FOR CONSTRUCTION

### PROJECT PICTOGRAMS

WOMEN/MEN

WOMEN

MEN

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115 Wilcox Street Suite 210  
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Hollis + Miller Architects  
Missouri State Certificate of Authority  
Architecture # 0000161  
Structure # 200601133

**MKEC Engineering, Inc.**  
Civil Engineer  
State Certificate of Authority  
Engineering #2001009364  
Landscaping #2006027139  
Surveying #2006027139  
11827 W 112th St #200  
Overland Park, KS 66210  
913.317.5590 phone

**Bob D. Campbell & Co.**  
Structural Engineer  
State Certificate of Authority # 000442  
4338 Bellevue Ave.  
Kansas City, MO 64111  
816.531.4144 phone  
816.531.8572 fax

**Smith & Boucher Engineers**  
Mech/Elect Engineer  
State Certificate of Authority # EFC-000178  
25618 W 103rd St  
Olathe, KS 66061  
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**Distribution Center**  
Liberty Public Schools  
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REVISIONS:

#	Description	Date

KEVIN E. NELSON  
A-2019015618  
OCTOBER 10, 2023  
Kevin E. Nelson  
A-2019015618

This Professional Address and Address is the official address of the architect and shall be used for all correspondence. It is the responsibility of the architect to maintain this address and to provide a current address to the architect. The architect shall not be held responsible for any correspondence sent to the architect at any other address.

JOB NO: 23021.00  
DRAWN BY: MM  
CHECKED BY: JCC  
DATE: 10.10.2023

# A715

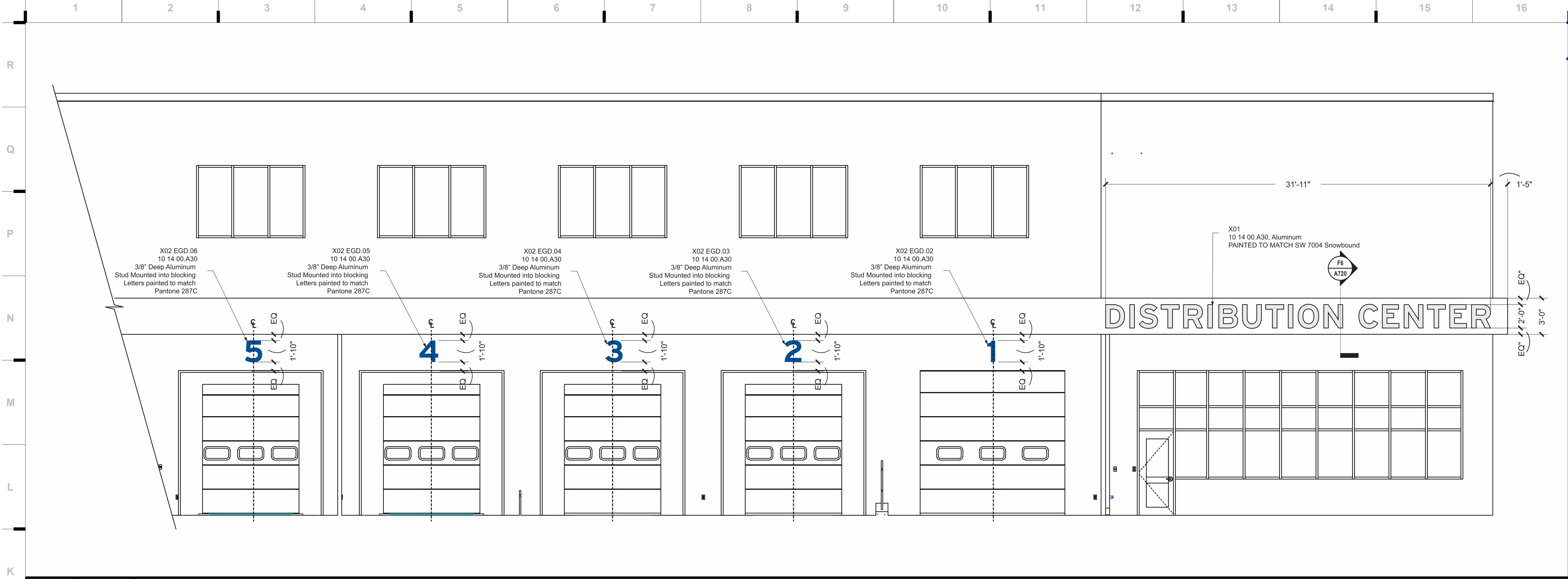
ADA & CODE SIGNAGE

CONSTRUCTION DOCUMENTS

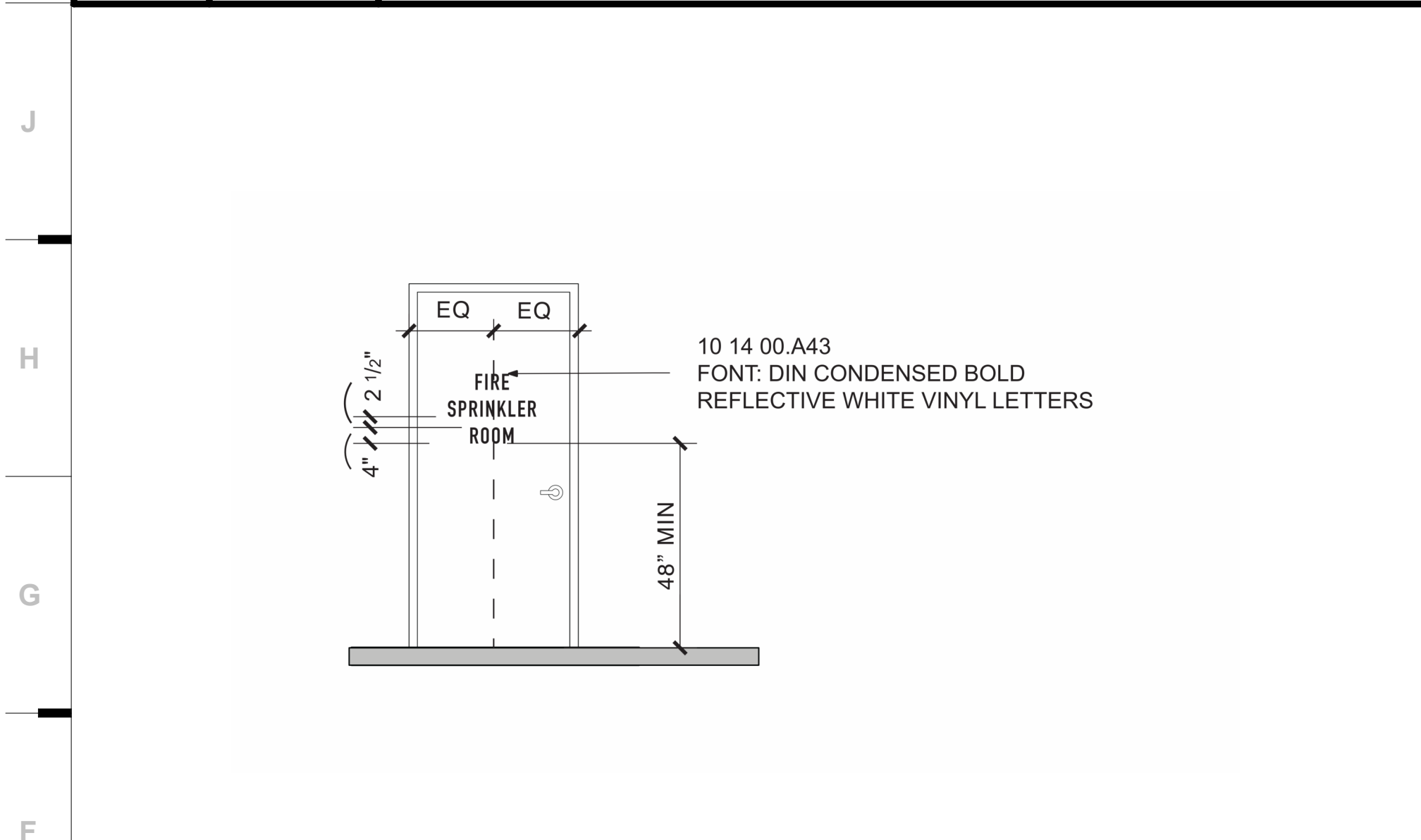
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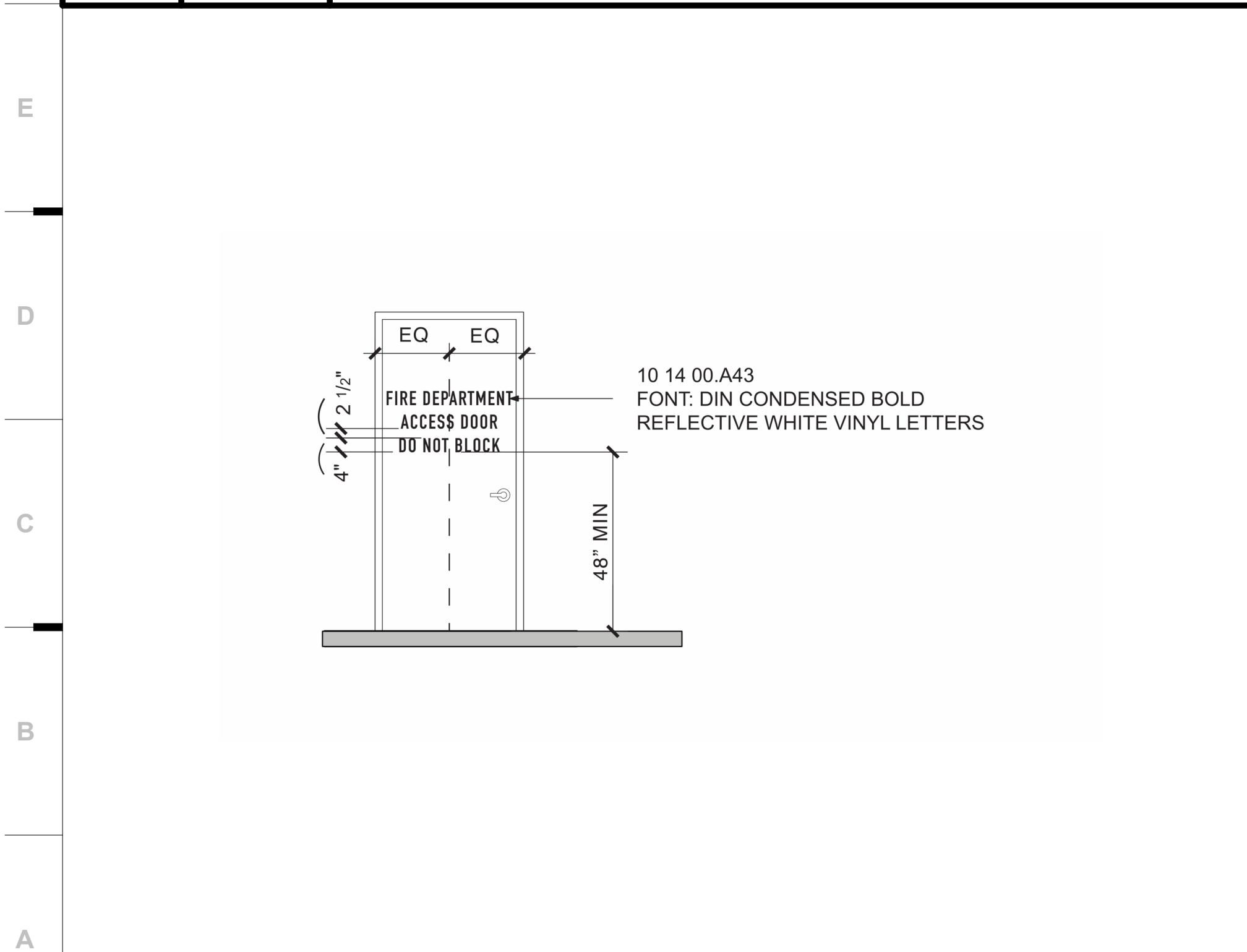
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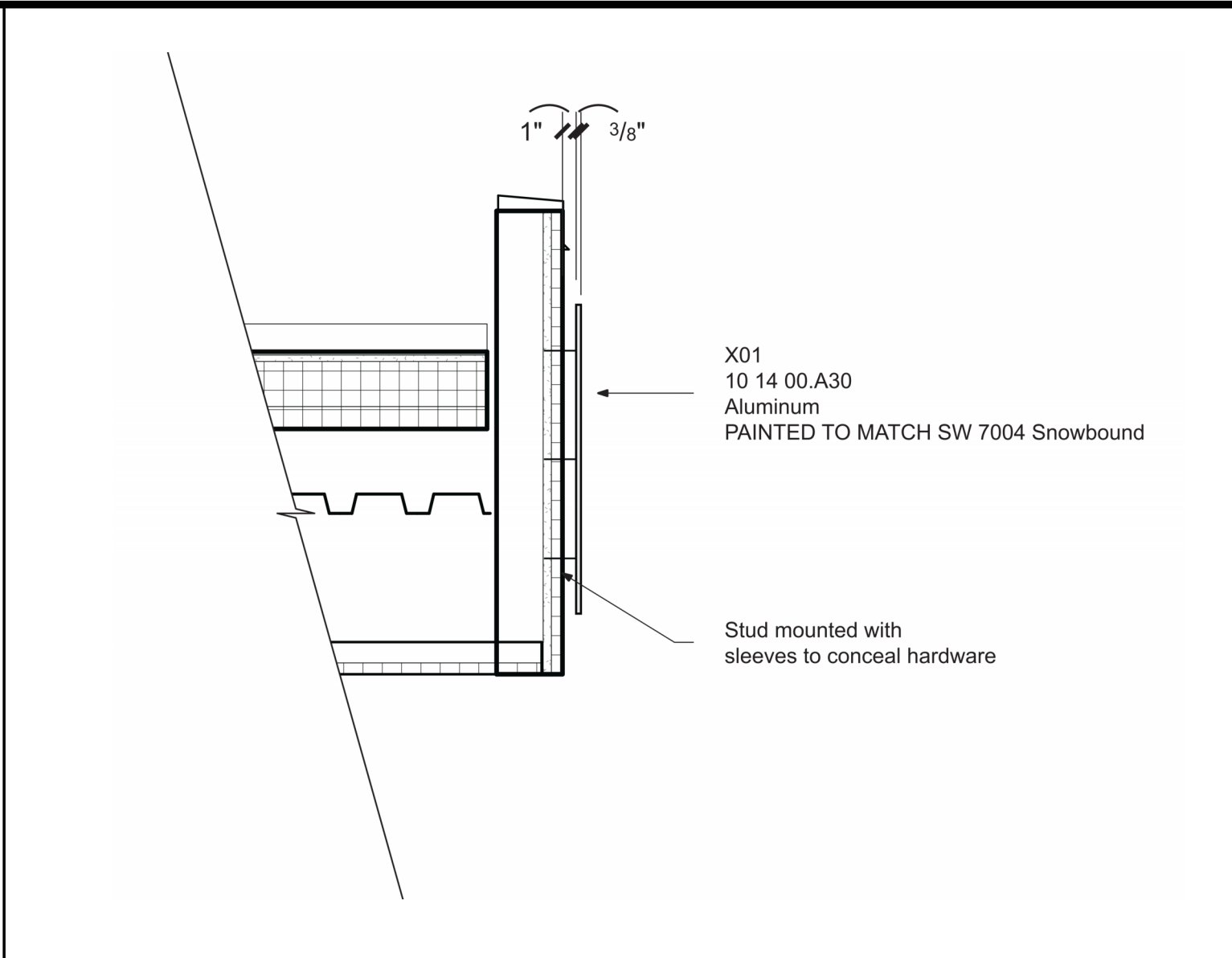
**K1** Scale 1/4" = 1'-0" Exterior Elevation - X01 & X02 - E



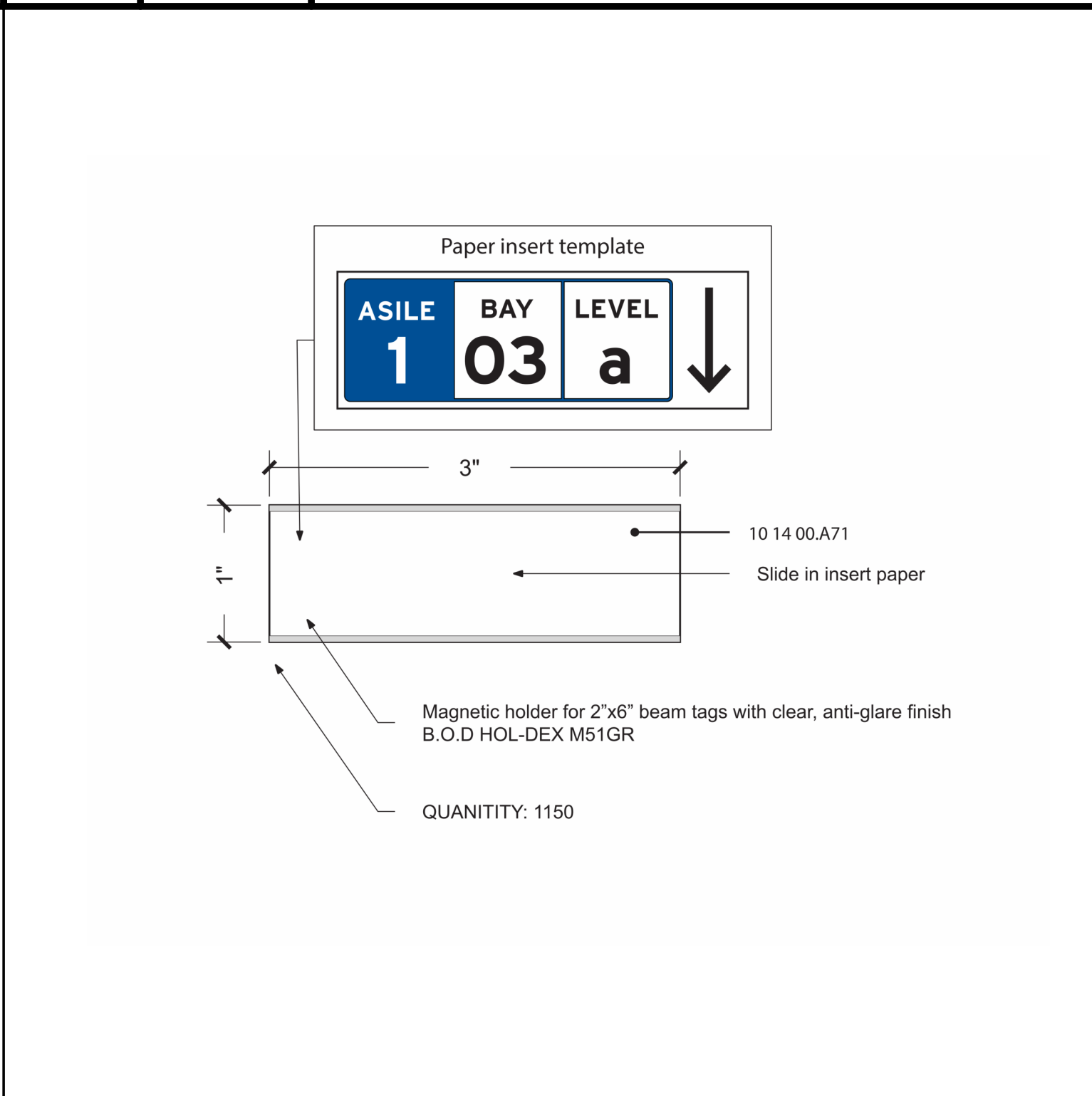
**F1** Scale 3/8" = 1'-0" Exterior Elevation - X05 - Fire Sprinkler Room Vinyl



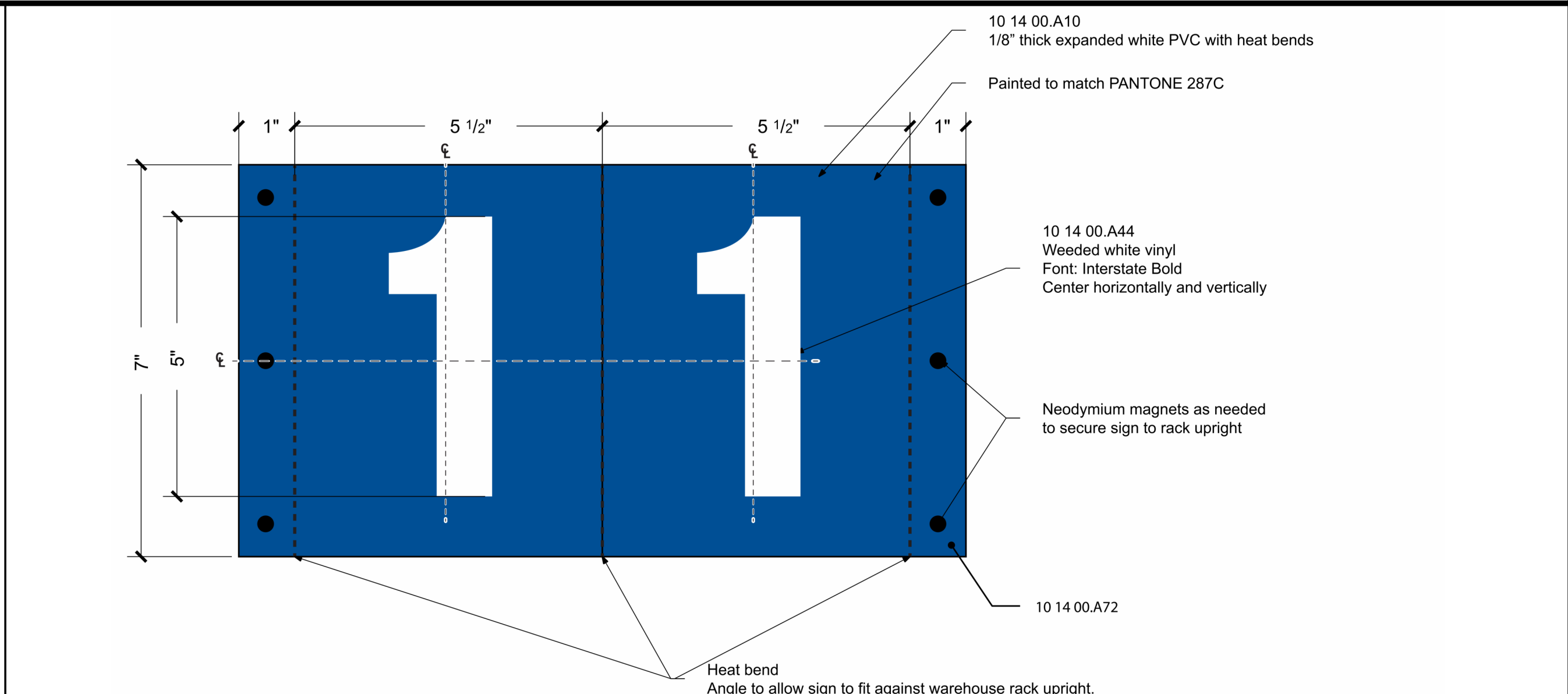
**A1** Scale 3/8" = 1'-0" EXTERIOR ELEVATION - X06 - Fire Department Vinyl



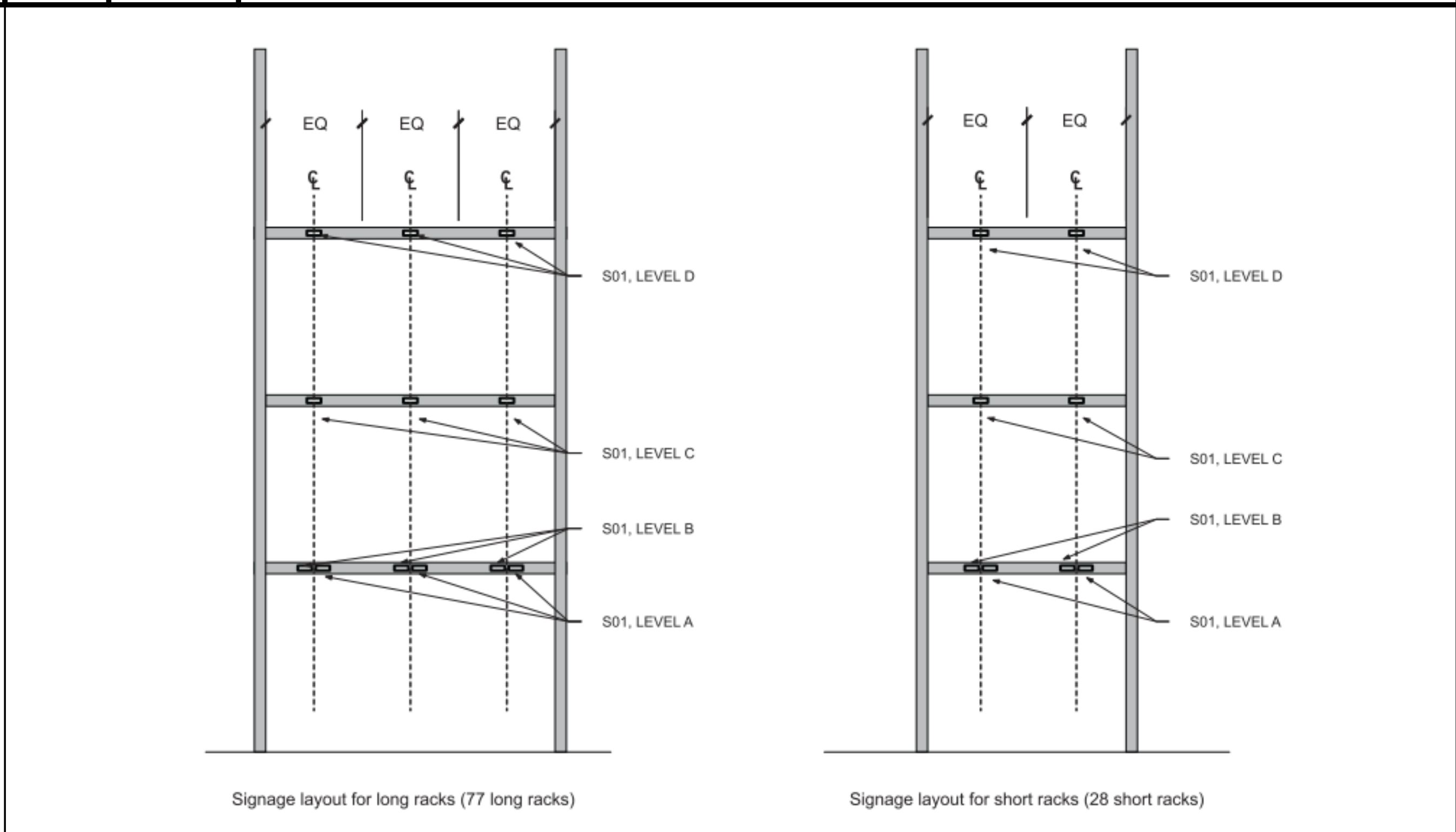
**F6** Scale 1" = 1'-0" SECTION - X01



**A6** Scale 8" = 1'-0" Detail - S01 - RACKING CHANGABLE TAGS



**F10** Scale 6" = 1'-0" DETAIL - S02 - RACKING BLADE SIGN



**A10** Scale 1/4" = 1'-0" S01 - TYPICAL LOCATION OF RACKS

SHEET KEYNOTE LEGEND

10 14 00.A10 - FABRICATED SIGNAGE

10 14 00.A30 - FLAT CUT

10 14 00.A43 - VINYL FILM

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#	Description	Date

STATE OF MISSOURI  
KEVIN E. NELSON  
A-2019015618  
ARCHITECT

OCTOBER 10, 2023  
Kevin E. Nelson  
A-2019015618

This Professional Address and Affirmation is the design professional's declaration that the design and construction of the project, as shown on the drawings, is in accordance with the applicable laws and regulations of the State of Missouri, and that the design professional is not providing any design or construction services to the project, or to any other project, that is not shown on the drawings.

JOB NO: 23021.00  
DRAWN BY: MM  
CHECKED BY: JCC  
DATE: 10.10.2023

A720

SIGNAGE & ENVIRONMENTAL GRAPHICS EXTERIOR ELEVATIONS & DETAILS

Please consider the environment before printing this.



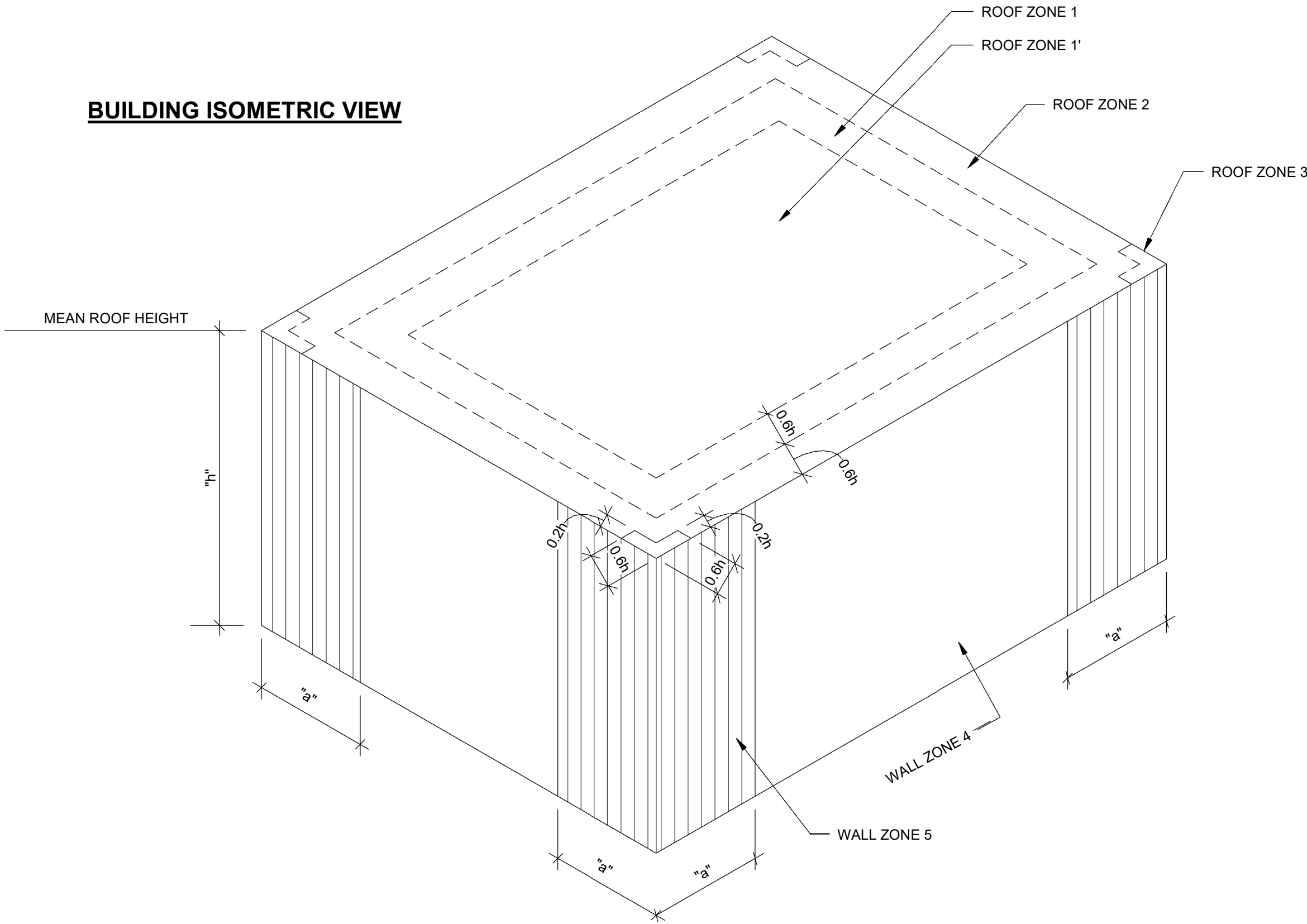




ASCE 7-16 BASIC LOAD CASE 1.0W COMPONENT AND CLADDING WIND PRESSURE DIAGRAM NOTES:

1. REFER TO GENERAL NOTES FOR WIND LOAD DESIGN CRITERIA.
2. POSITIVE LOADS ACT IN A PERPENDICULAR DIRECTION TOWARDS THE SURFACE. NEGATIVE LOADS ACT IN PERPENDICULAR DIRECTION AWAY FROM THE SURFACE.
3. WIND LOADS CALCULATED ARE BASED ON THE PROVISIONS OF ASCE 7. VALUES SHOWN ARE DETERMINED ASSUMING AN ENCLOSED BUILDING WITH AN INTERNAL PRESSURE COEFFICIENT = +0.18 AND A Kd FACTOR = 0.85. LOADS SHOWN ARE FROM UNFACTORED BASIC LOAD CASE.
4. LINEAR INTERPOLATION IS PERMITTED FOR TRIBUTARY AREAS BETWEEN VALUES GIVEN.
5. "s" SHALL BE THE LESSER OF 10 PERCENT OF THE LEAST HORIZONTAL DIMENSION OR 0.4x"y", BUT NOT LESS THAN 4 PERCENT OF THE LEAST HORIZONTAL DIMENSION OR 3 FT.
6. FIGURES SHOWN ARE ILLUSTRATIVE ONLY AND ARE NOT INTENDED TO DEPICT THE ACTUAL STRUCTURE DIMENSIONS.
7. ALL DESIGNERS USING THIS WIND LOAD DIAGRAM MUST INDEPENDENTLY VERIFY THE DESIGN PRESSURES BASED ON THE APPLICABLE BUILDING CODE.
8. ROOF PRESSURES ARE FOR FLAT ROOF ONLY. WIND LOADS FOR THE DESIGN OF SLOPED ROOFS (WITH ANGLES GREATER THAN 10 DEGREES) SHALL BE OBTAINED USING THE PROVISIONS OF ASCE 7-16.
9. PARAPETS SHALL BE DESIGNED FOR COMPONENTS AND CLADDING LOADS PER ASCE 7 SECTION 6.5.12.4.4. IF A PARAPET 3'-0" OR HIGHER OCCURS AROUND THE PERIMETER OF THE ROOF, ZONE 3 MAY BE TREATED AS ZONE 2 FOR ROOF PRESSURE AND SUCTION.

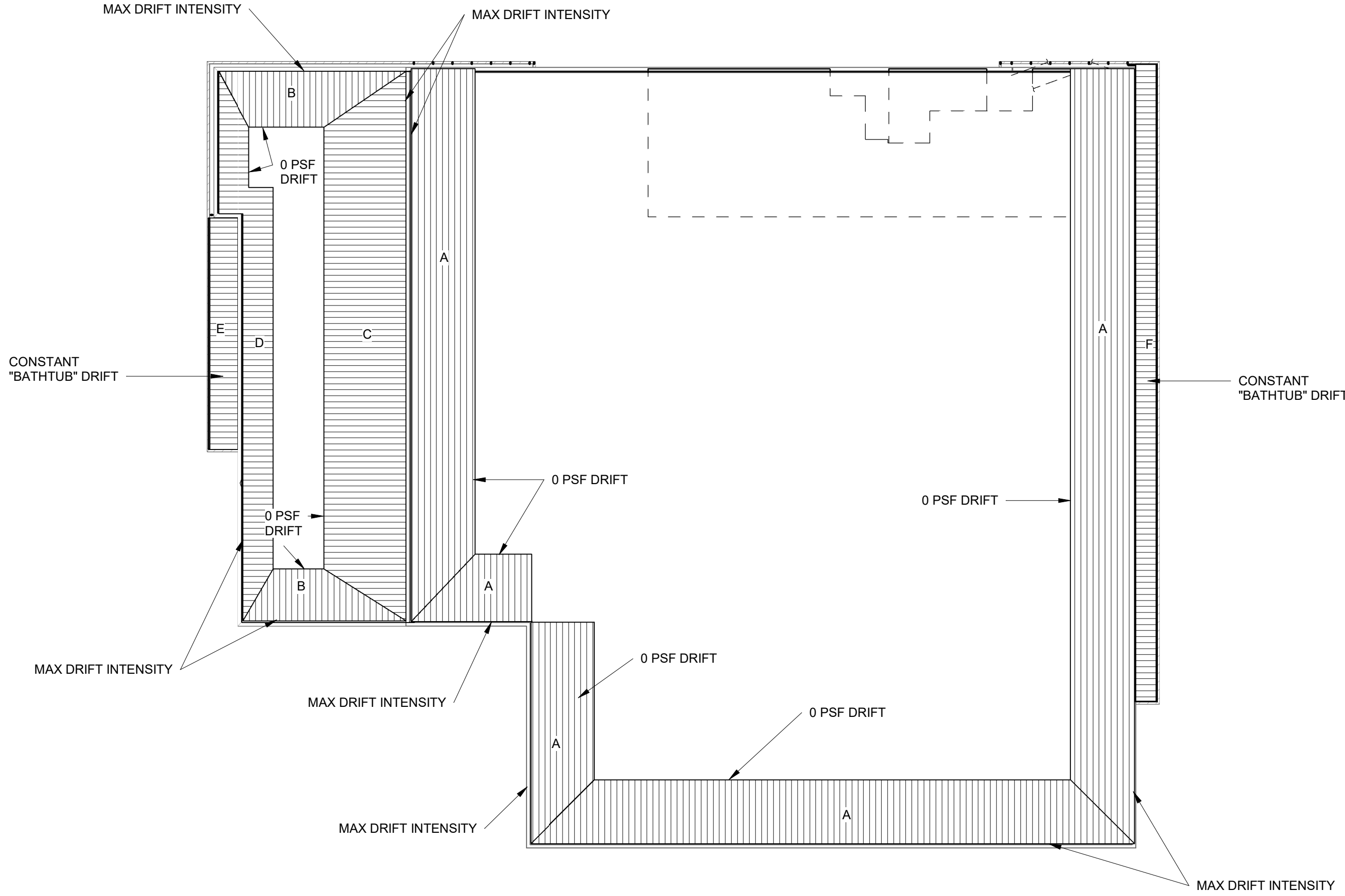
BUILDING ISOMETRIC VIEW



FLAT ROOF (SLOPE LESS THAN 3 DEGREES) BUILDING COMPONENT AND CLADDING DESIGN WIND PRESSURES (+) AND SUCTION (-) (PSF)													
EFFECTIVE AREA (SQ. FT.)	10	20	50	100	200	500	1000						
ZONE 1	-55.7	14.7	-52.8	13.2	-46.9	7.9	-44.0	11.7	-41.1	11.7	-35.2	11.7	-35.2
ZONE 1'	-32.3	14.7	-32.3	13.2	-32.3	7.9	-32.3	11.7	-27.9	11.7	-22.0	11.7	-17.6
ZONE 2	-73.3	14.7	-68.9	13.2	-63.1	7.9	-58.7	11.7	-52.8	11.7	-46.9	11.7	-46.9
ZONE 3	-99.7	14.7	-90.9	13.2	-79.2	7.9	-68.9	11.7	-58.7	11.7	-46.9	11.7	-46.9
ZONE 4	-38.1	35.2	-36.7	35.2	-35.2	33.7	-32.3	29.3	-30.8	29.3	-29.3	29.3	24.3
ZONE 5	-46.9	35.2	-44.0	35.2	-39.6	33.7	-36.7	29.3	-33.7	29.3	-29.3	29.3	24.3

BUILDING COMPONENTS &  
CLADDING WIND LOADS DIAGRAM

1/8" = 1'-0"



DRIFT LOAD CHART		
DRIFT LOAD TYPE	DRIFT MAX INTENSITY (PSF)	DRIFT WIDTH "W"
DRIFT A	59	13'-3"
DRIFT B	48	10'-9"
DRIFT C	76	17'-0"
DRIFT D	28	6'-3"
DRIFT E	40	"BATHTUB"
DRIFT F	76	"BATHTUB"
DRIFT G	13	3'-0"
DRIFT H	37	8'-3"
DRIFT J	53	12'-0"

SNOW DRIFT LOAD DIAGRAM NOTES:

1. GROUND SNOW LOAD AND FLAT SNOW LOADS ARE INDICATED IN GENERAL NOTE 2 ON SHEET S001.
2. SNOW DRIFT LOAD IS IN ADDITION TO THE GROUND SNOW LOAD INDICATED IN GENERAL NOTE 2 ON SHEET S001.
3. ROOF FRAMING MEMBERS DESIGNED BY SUPPLIER SHALL BE DESIGNED FOR THE WORST CASE LOAD EFFECTS RESULTANT FROM GROUND SNOW, UNBALANCED SNOW, SNOW DRIFT, AND RAIN-ON-SNOW LOADS TAKEN IN COMBINATION AS REQUIRED BY ASCE 7.

2 SNOW DRIFT LOAD DIAGRAM

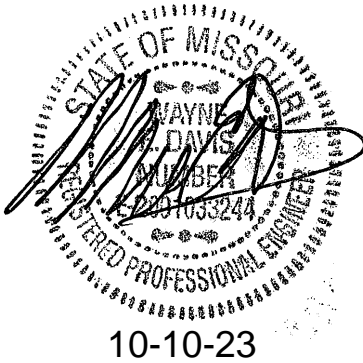
1/8" = 1'-0"



Distribution Center  
Liberty Public Schools  
1138 Southview Dr, Liberty, MO 64068

REVISIONS:

#	Description	Date
---	-------------	------



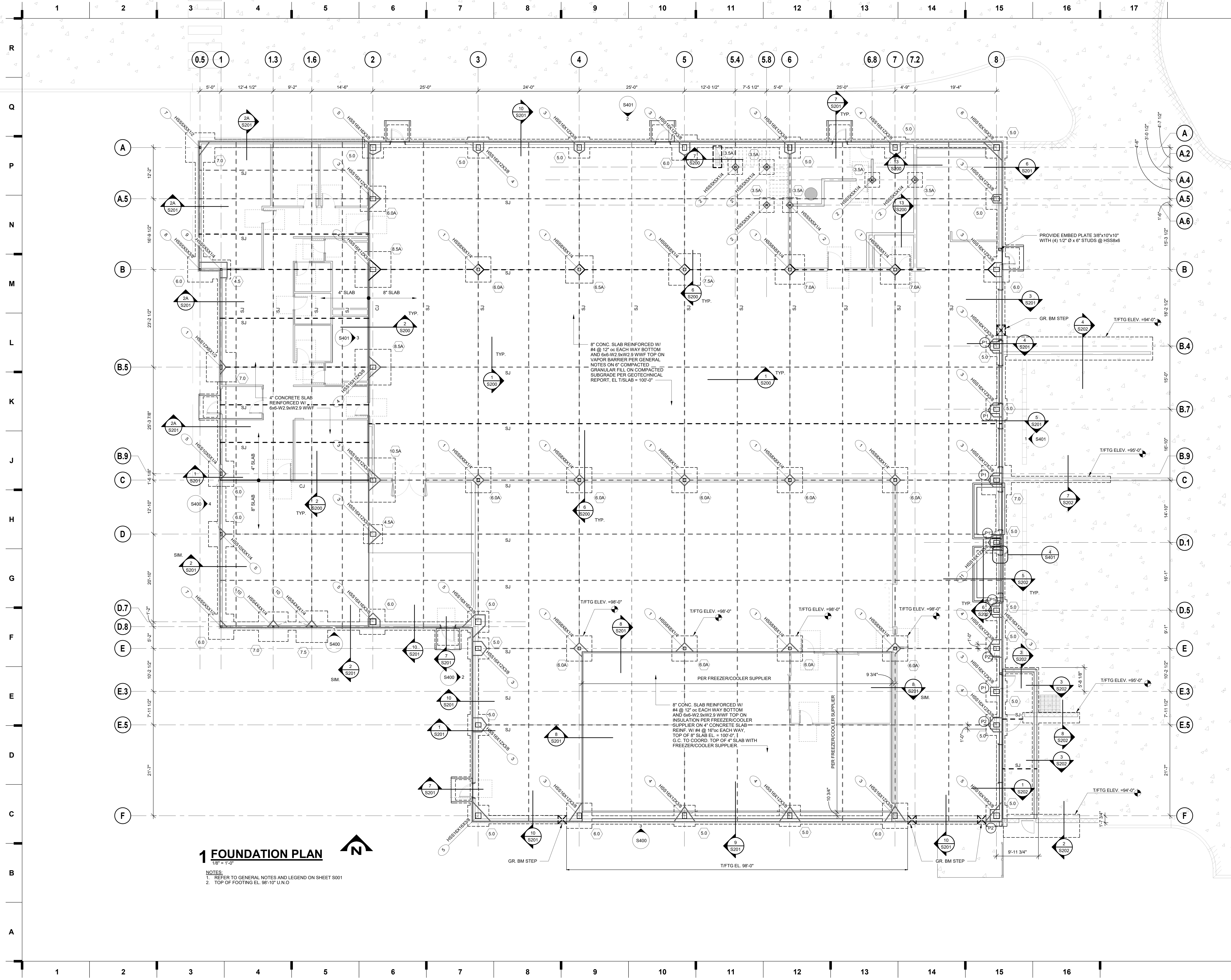
JOB NO: 23021.00  
DRAWN BY: RWO  
CHECKED BY: WED  
DATE: 10.10.2023

S002



NOTE:  
1.) EXTERIOR FOOTINGS OR FOOTING AT GRADE BEAM SHALL MATCH GRADE BEAM DEPTH AND BE PLACED WITH GRADE BEAM. PROVIDE SPECIFIED REBAR TOP AND BOTTOM WITH 4 STANDEES TO SUPPORT MATS.  
2.) PROVIDE REINFORCING PER SCHEDULE EACH WAY IN TOP OF FTG. AT ALL MOMENT FRAME AND BRACED BAY COLUMNS.  
3.) CENTER FOOTINGS ON COLUMNS AND/OR WALL CENTER LINES PER PLAN UNLESS NOTED OTHERWISE (U.N.O.).





1 FOUNDATION PLAN

1/8" = 1'-0"

NOTES:

- 1. REFER TO GENERAL NOTES AND LEGEND ON SHEET S001
- 2. TOP OF FOOTING EL. 98'-10" U.N.O

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State Certificate of Authority  
Engineering #000442  
4338 Bellevue Ave.  
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816.531.4144 phone  
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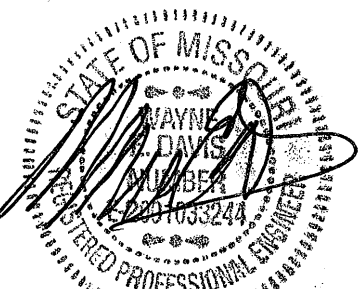
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913.345.2127 phone

Fellers Food Service Equipment & Design  
Food Service Consultant  
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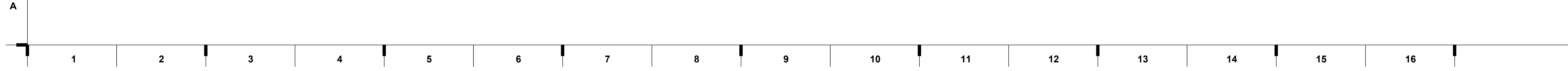
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S100





— A

## D FLOOR FRAMING PLAN



1 ROOF FRAMING PLAN

1/8" = 1'-0"



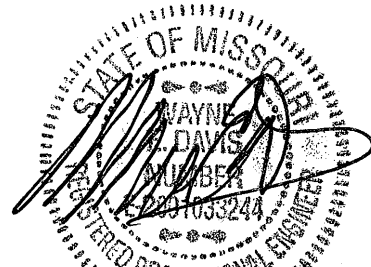
TYPICAL: PROVIDE ROOF DECK OPENINGS  
& RTU SUPPORT ANGLE FRAMES PER  
GENERAL NOTE SN ON SHEET S001.  
REFER TO DETAIL 2/S301 FOR JOIST  
REINFORCEMENT REQUIREMENTS

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S102

ROOF FRAMING PLAN

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Structure # 200000000

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Engineering #000442  
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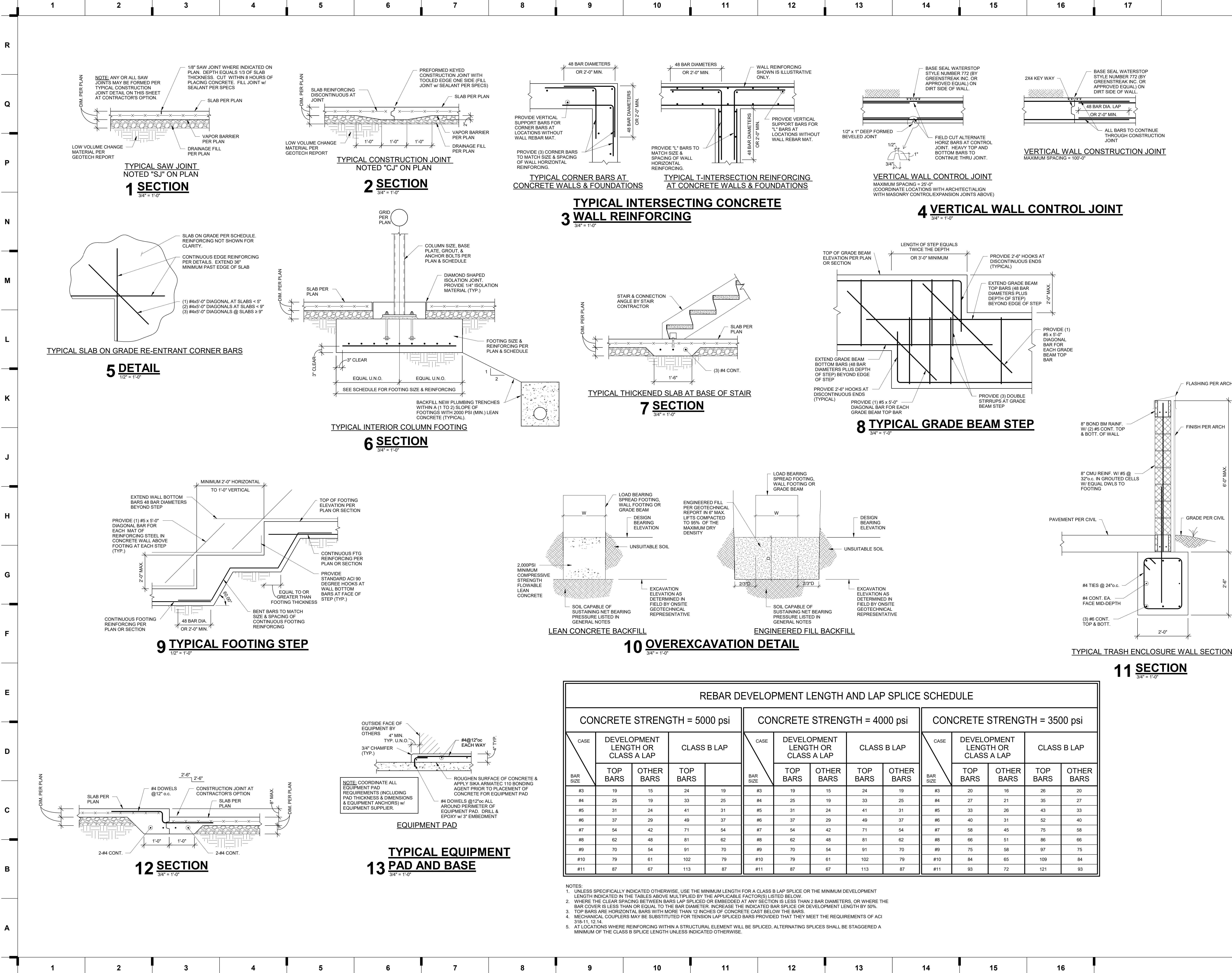
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Structure # 2000017333  
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Engineering #2001009364  
Landscaping #2000627139  
Surveying #2000927139  
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4338 Bellevue Ave.  
Kansas City, MO 64111  
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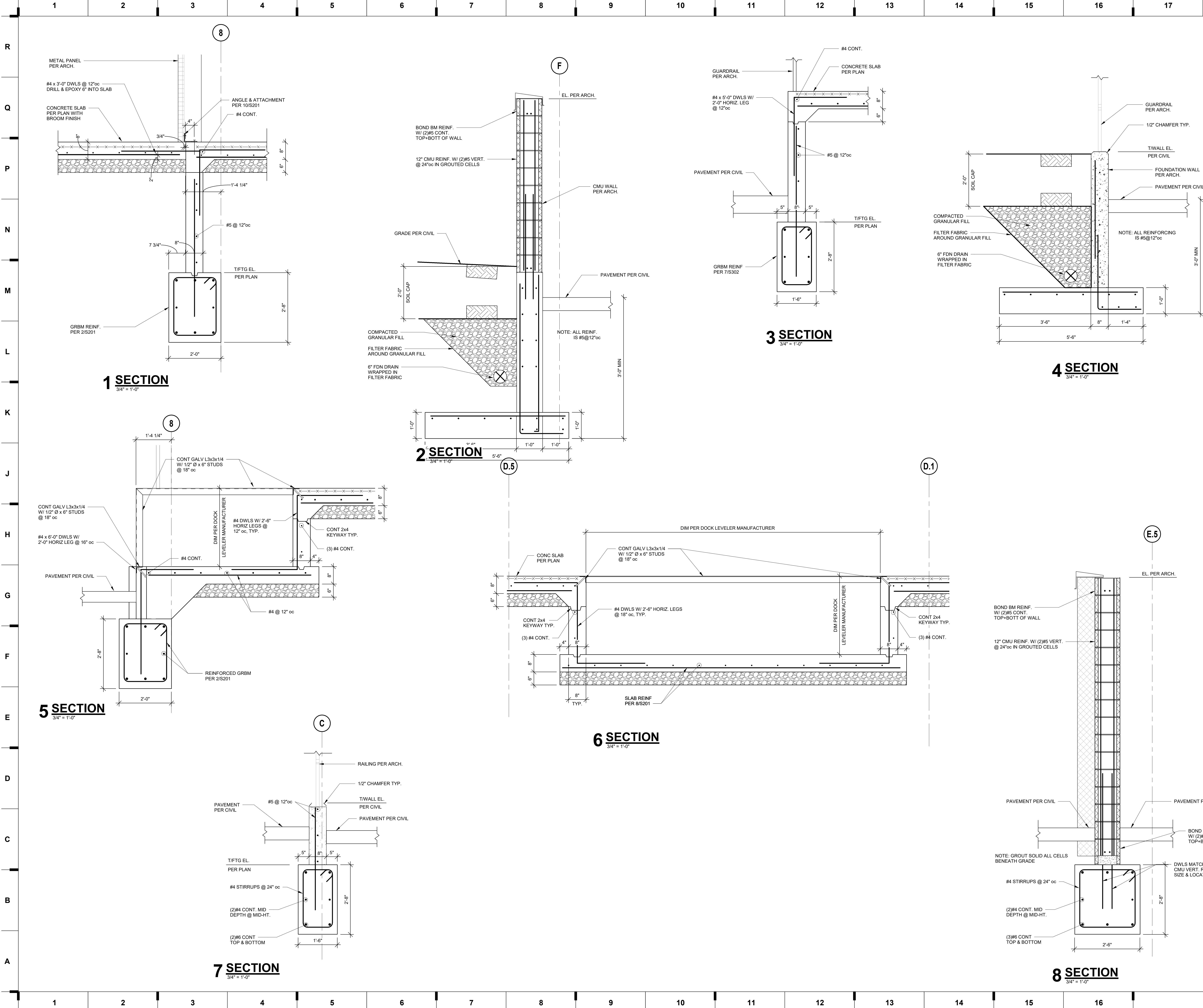
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Surveying #2000027139  
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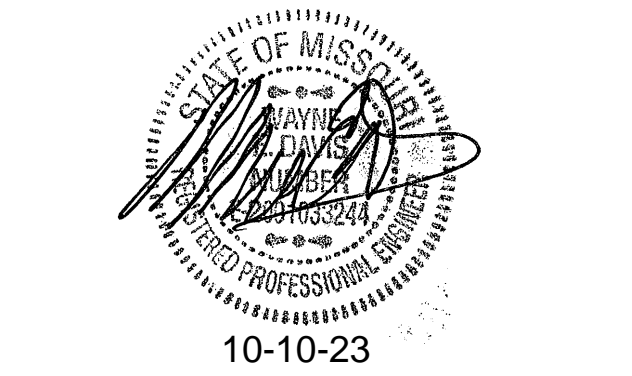
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**S202**

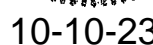
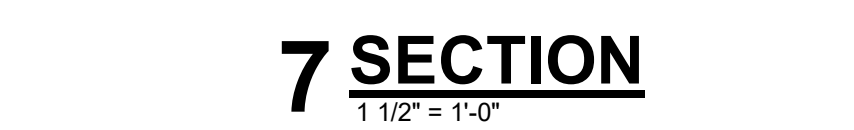
FOUNDATION SECTIONS







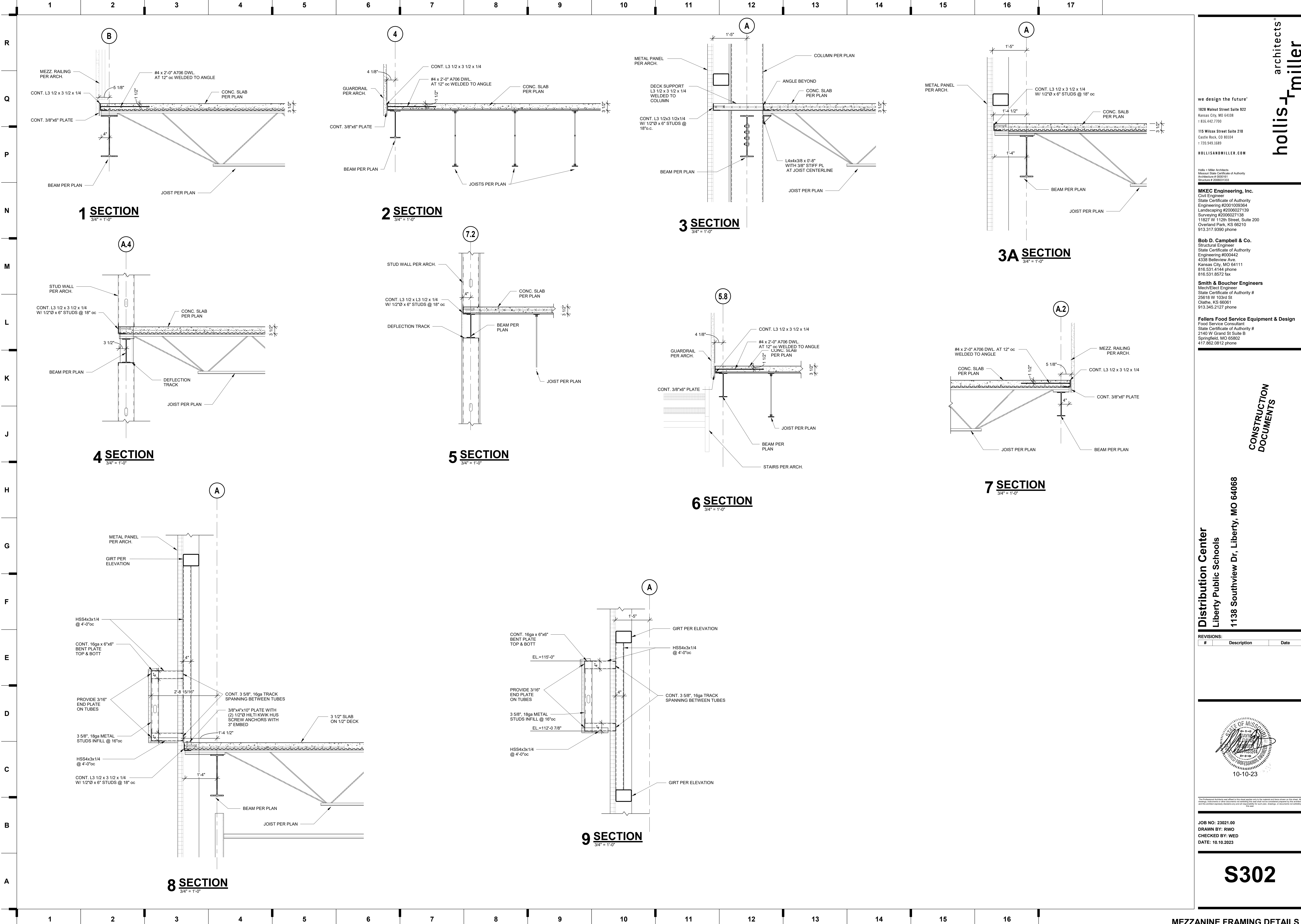
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STATE OF MISSOURI  
DIVISION OF PROFESSIONAL REGULATION  
REGISTERED PROFESSIONAL ARCHITECT  
10-10-23

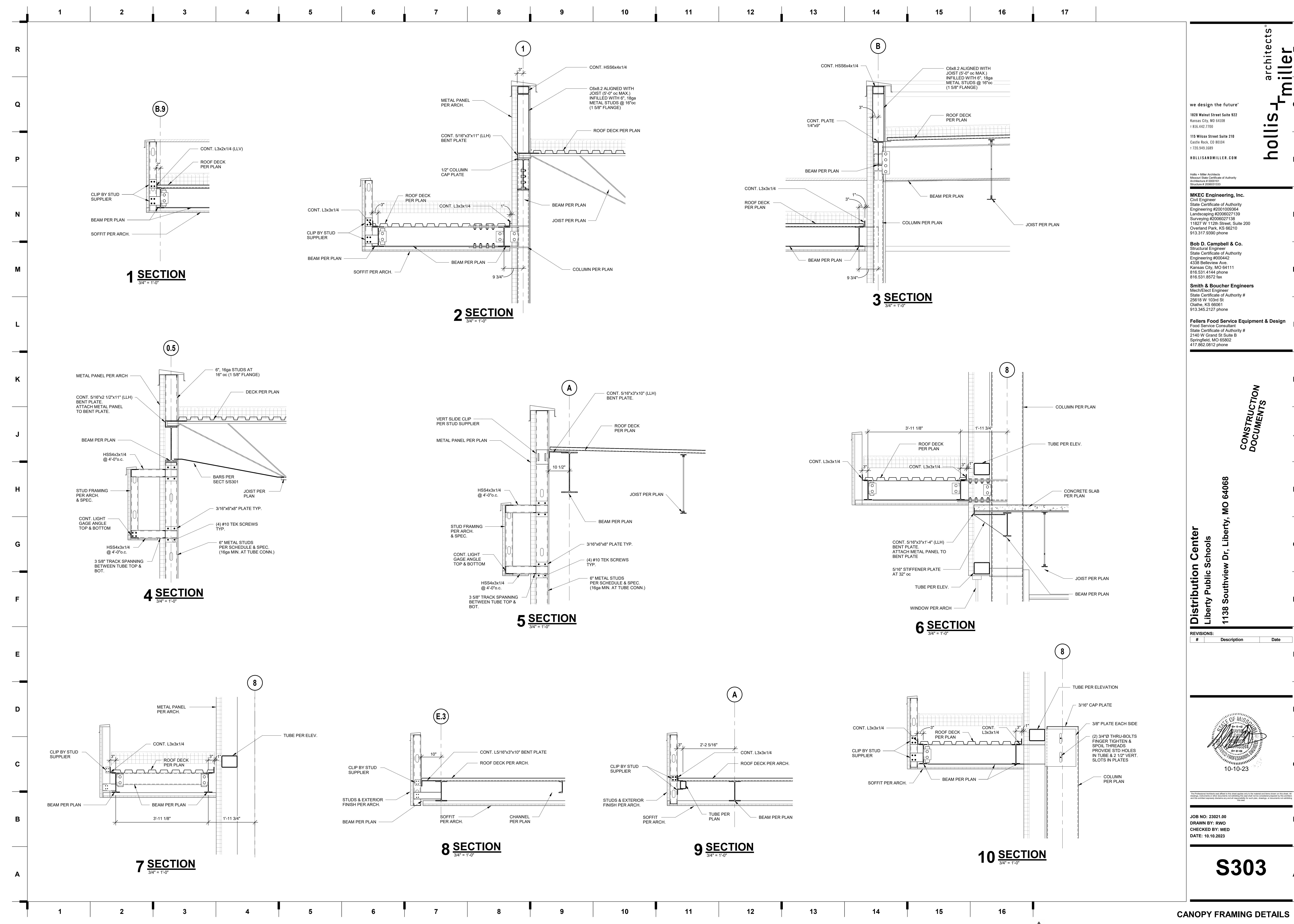
This Professional Architects seal shall be used only when the architect is the registered architect shown in the seal. All drawings, specifications and documents prepared by the architect and used for the execution of the project shall be the property of the architect. The architect assumes no responsibility for the construction of the project or for the performance of the contractor.

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**S302**



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Structural Engineer  
State Certificate of Authority  
Engineering #000442  
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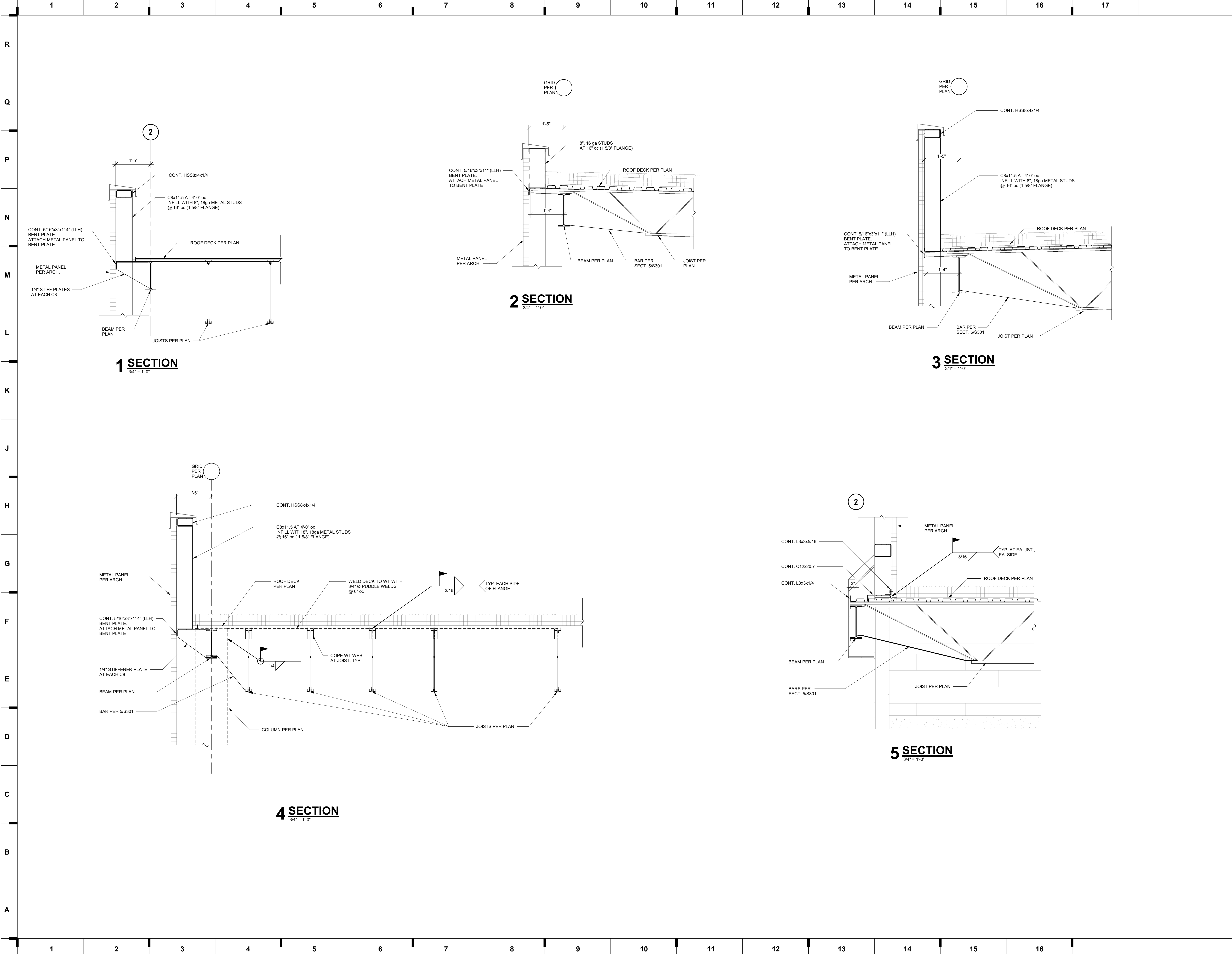
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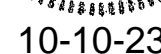
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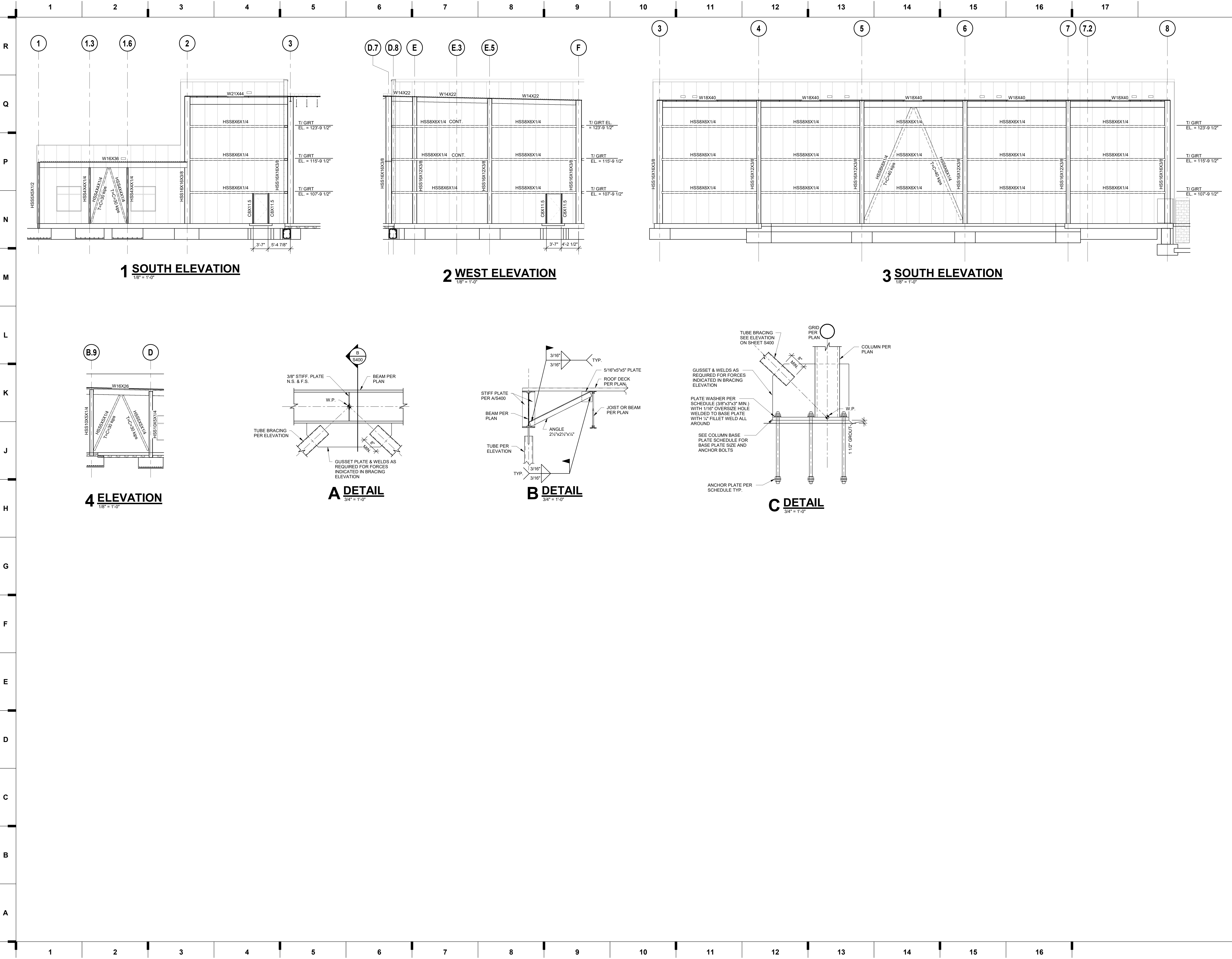
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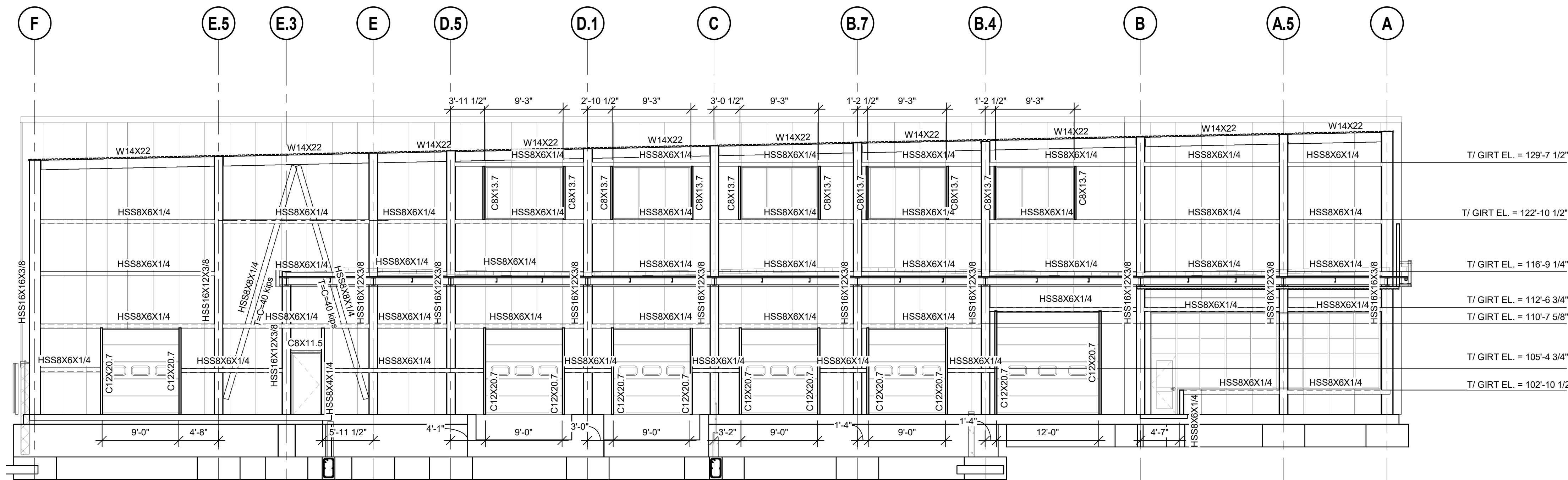
ELEVATION VIEWS

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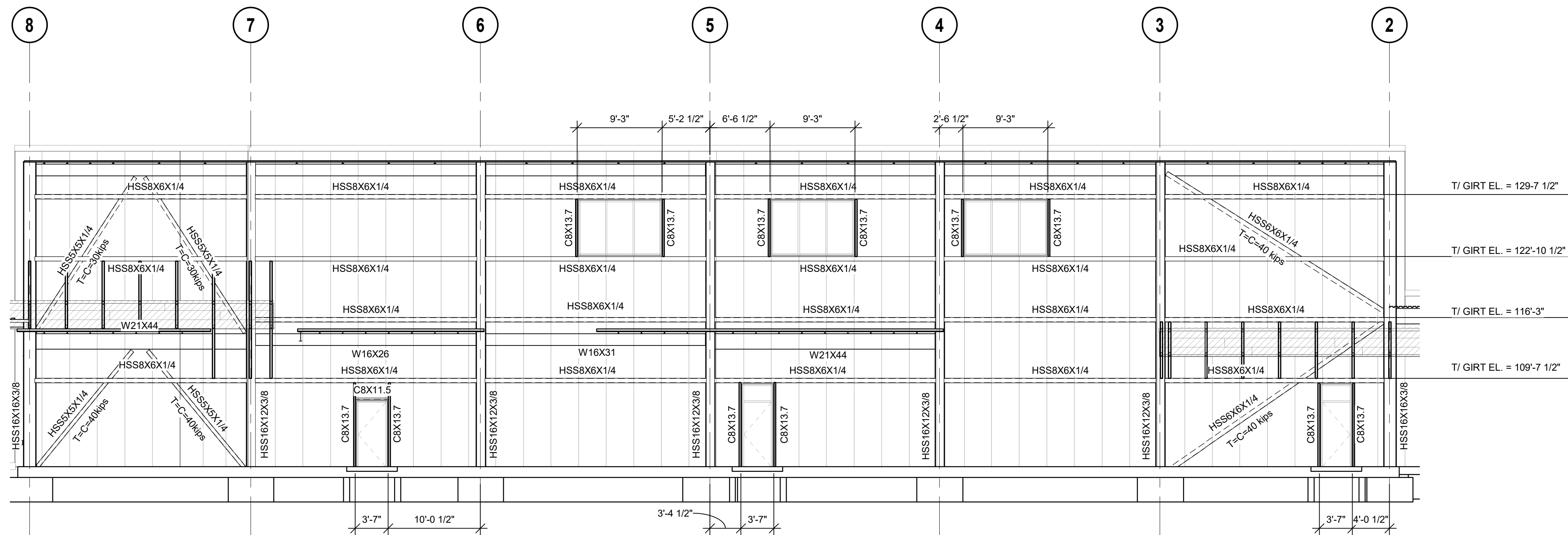
CONSTRUCTION DOCUMENTS

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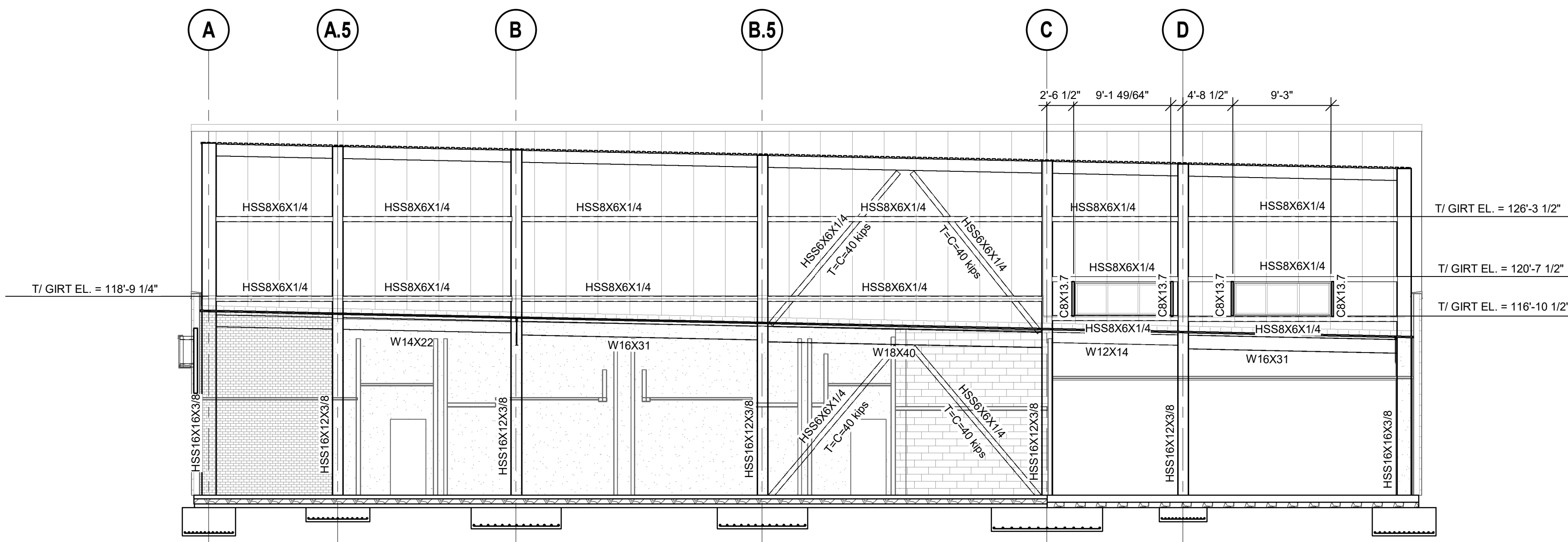




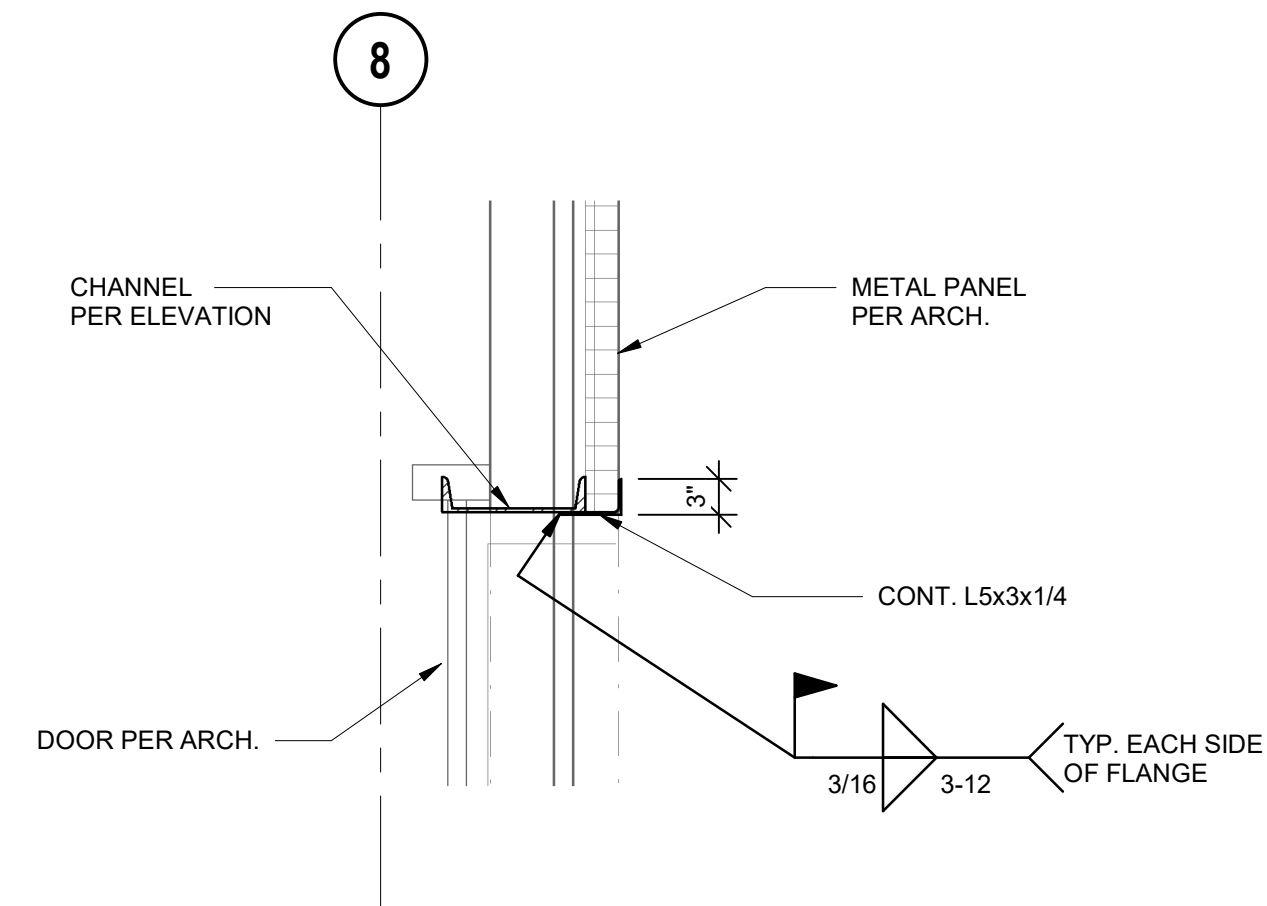
**1 EAST ELEVATION**  
1/8" = 1'-0"



**2 NORTH ELEVATION**  
1/8" = 1'-0"



**3 WEST ELEVATION**  
1/8" = 1'-0"



**TYPICAL - JAMB @ SECTIONAL 4 DOOR**  
3/4" = 1'-0"

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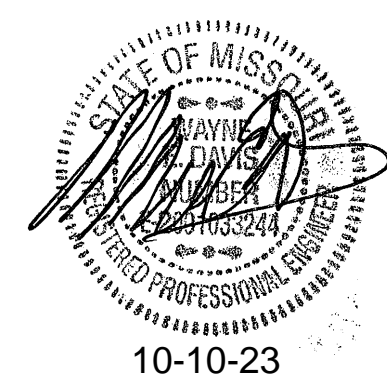
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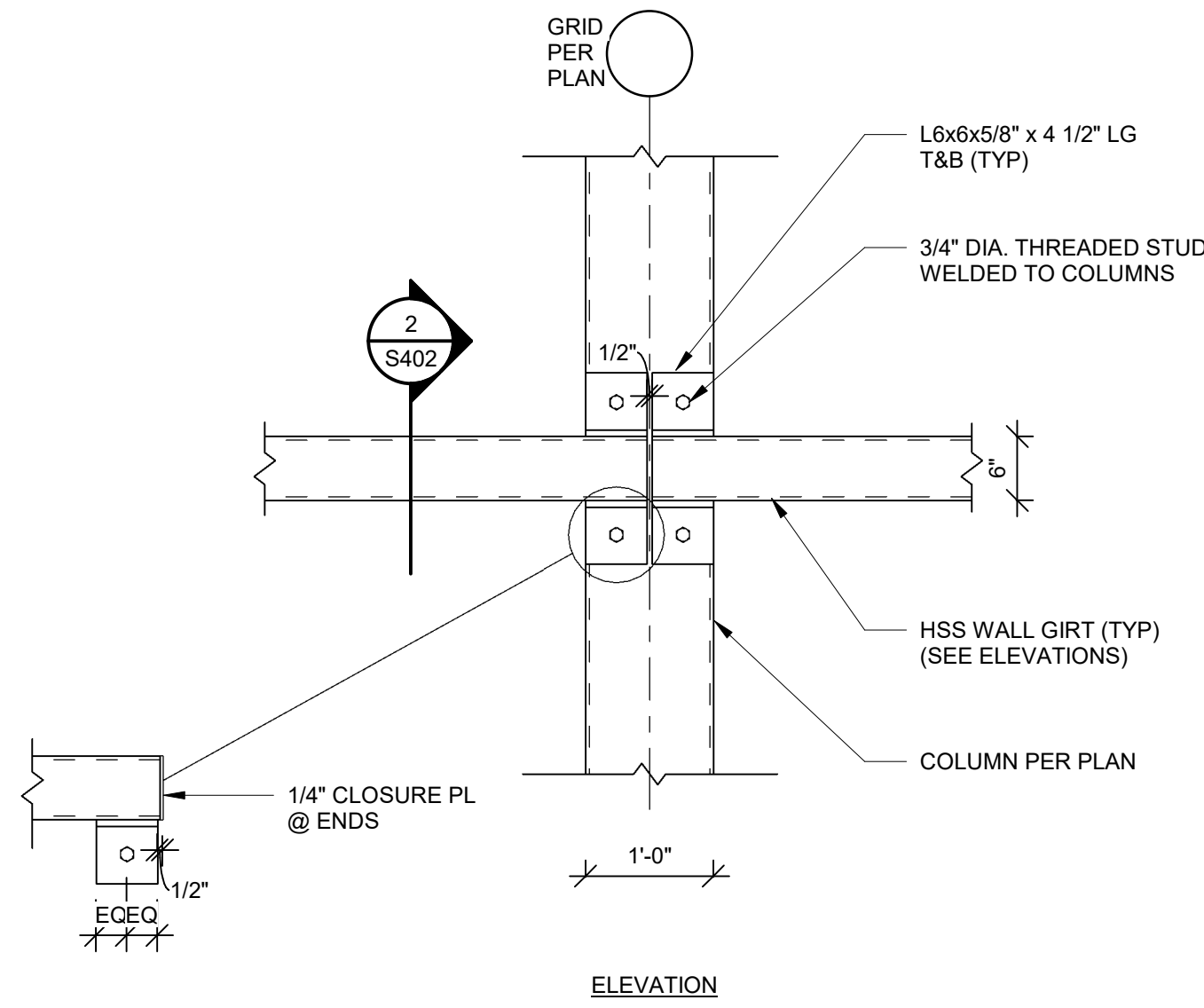
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DATE: 10.10.2023

**S401**

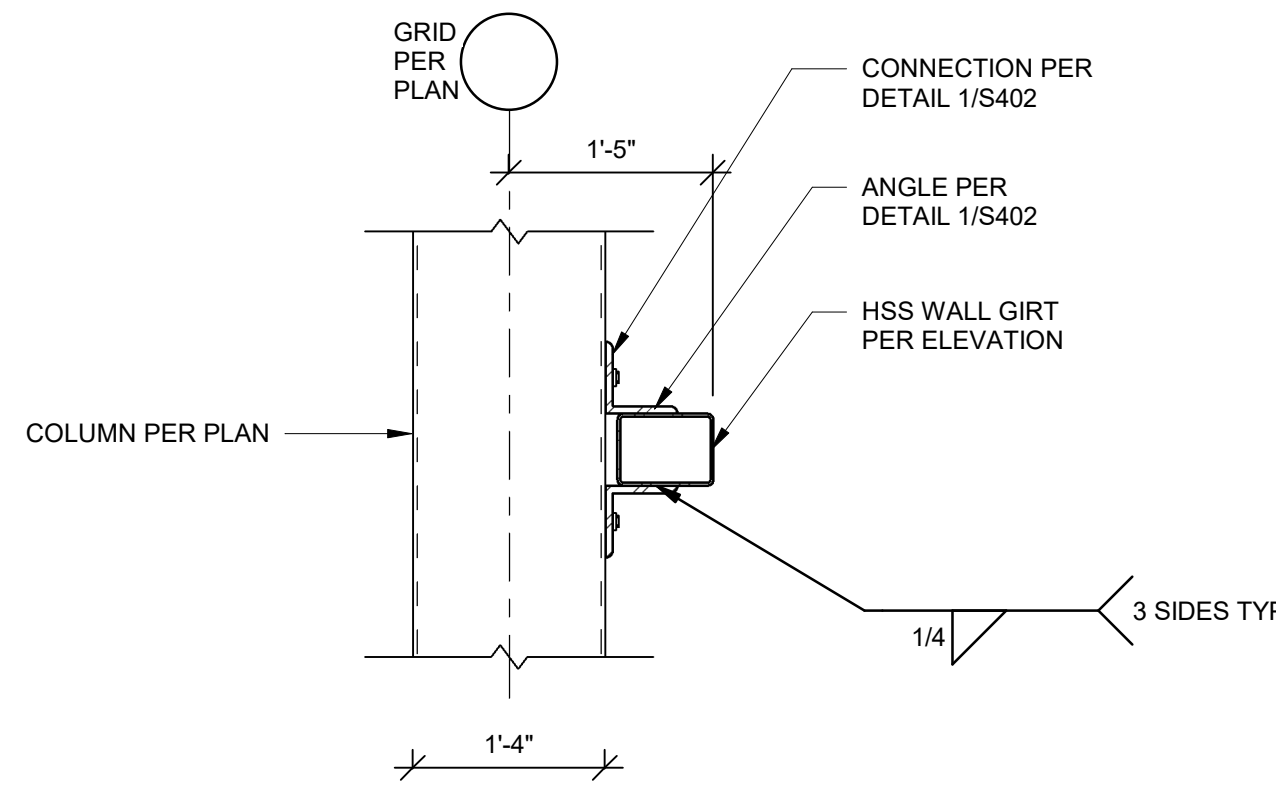
ELEVATION VIEWS



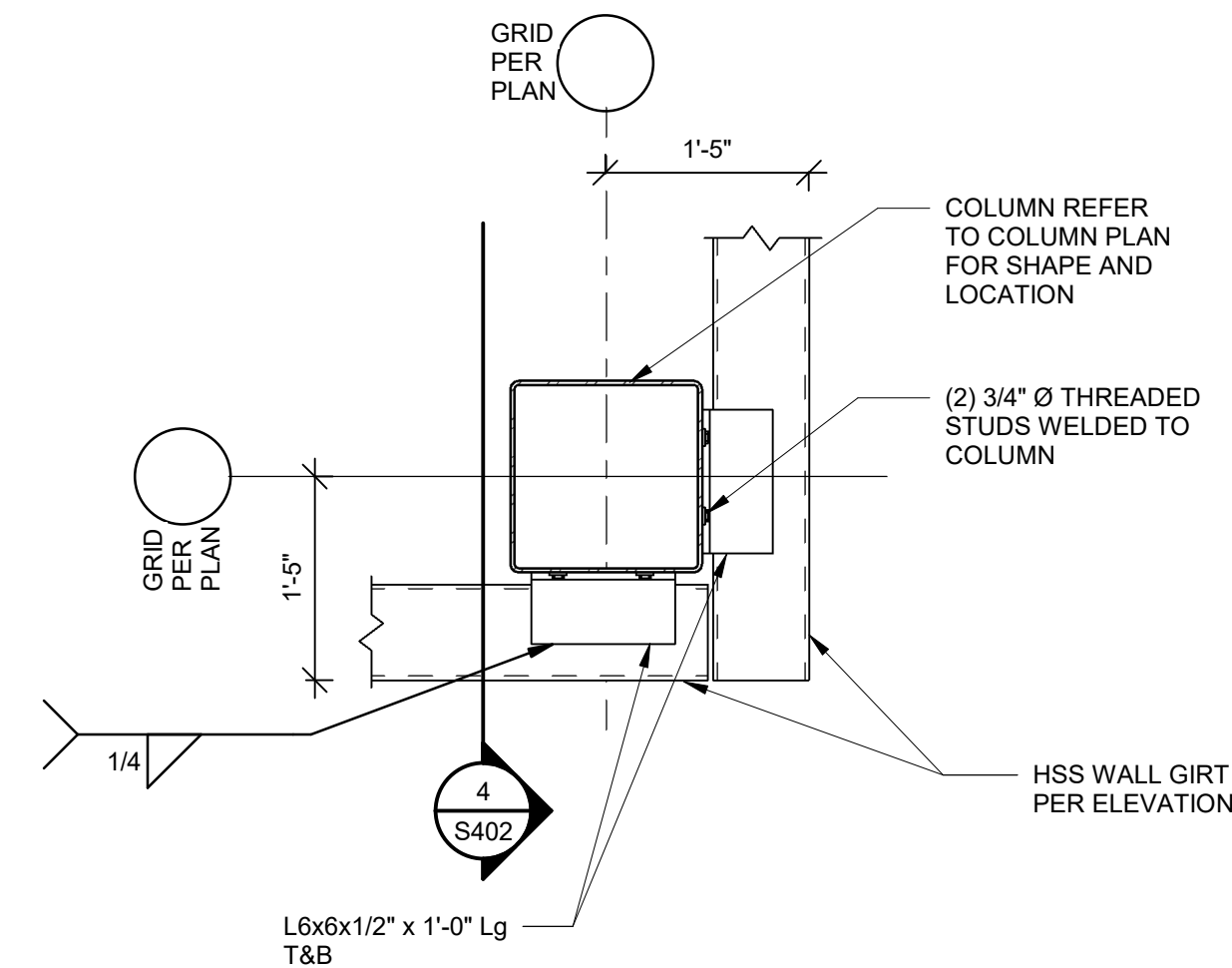
**TYPICAL GIRT CONNECTION @  
1 COLUMN**  
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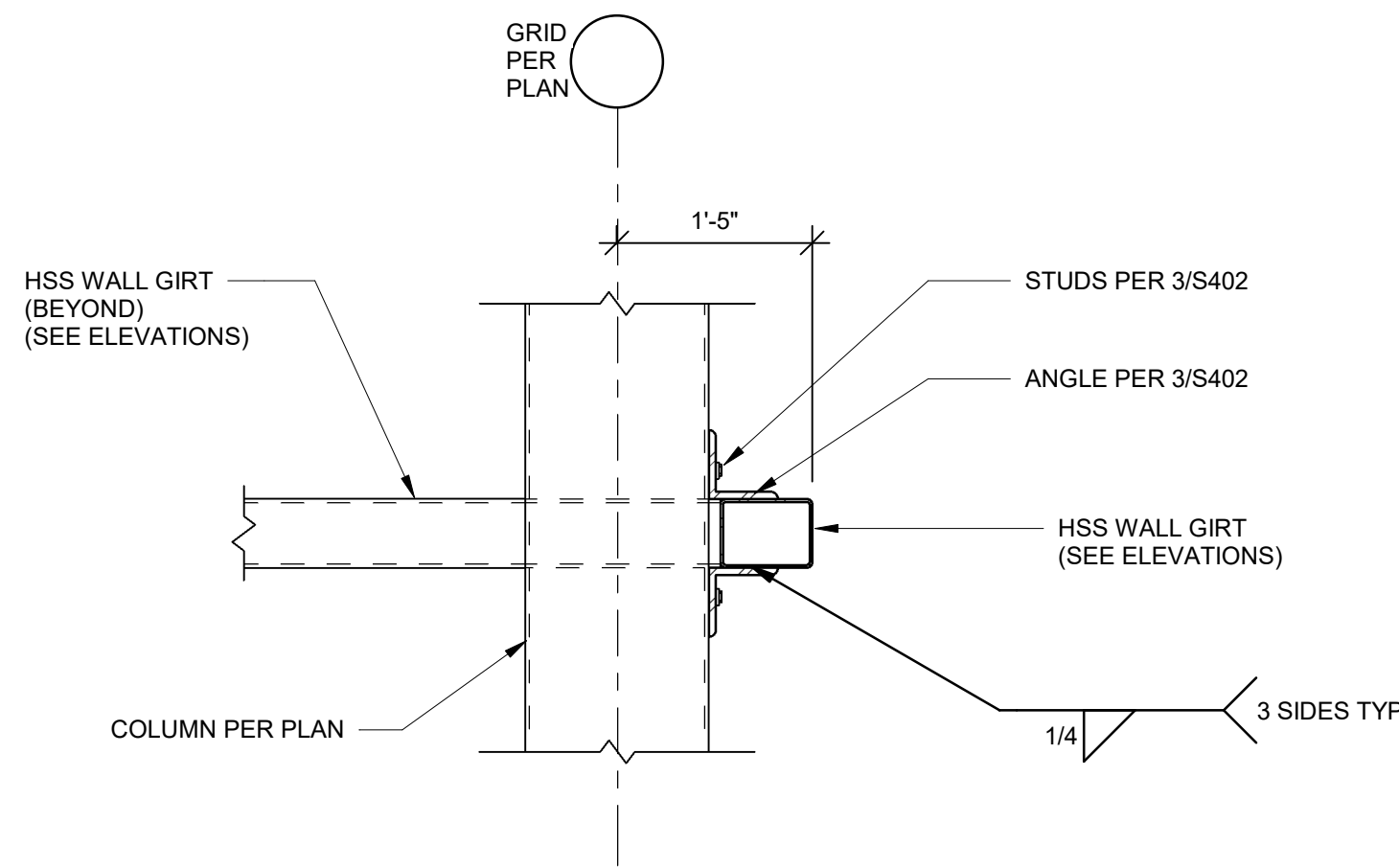
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2 @ COLUMN**  
3/4" = 1'-0"



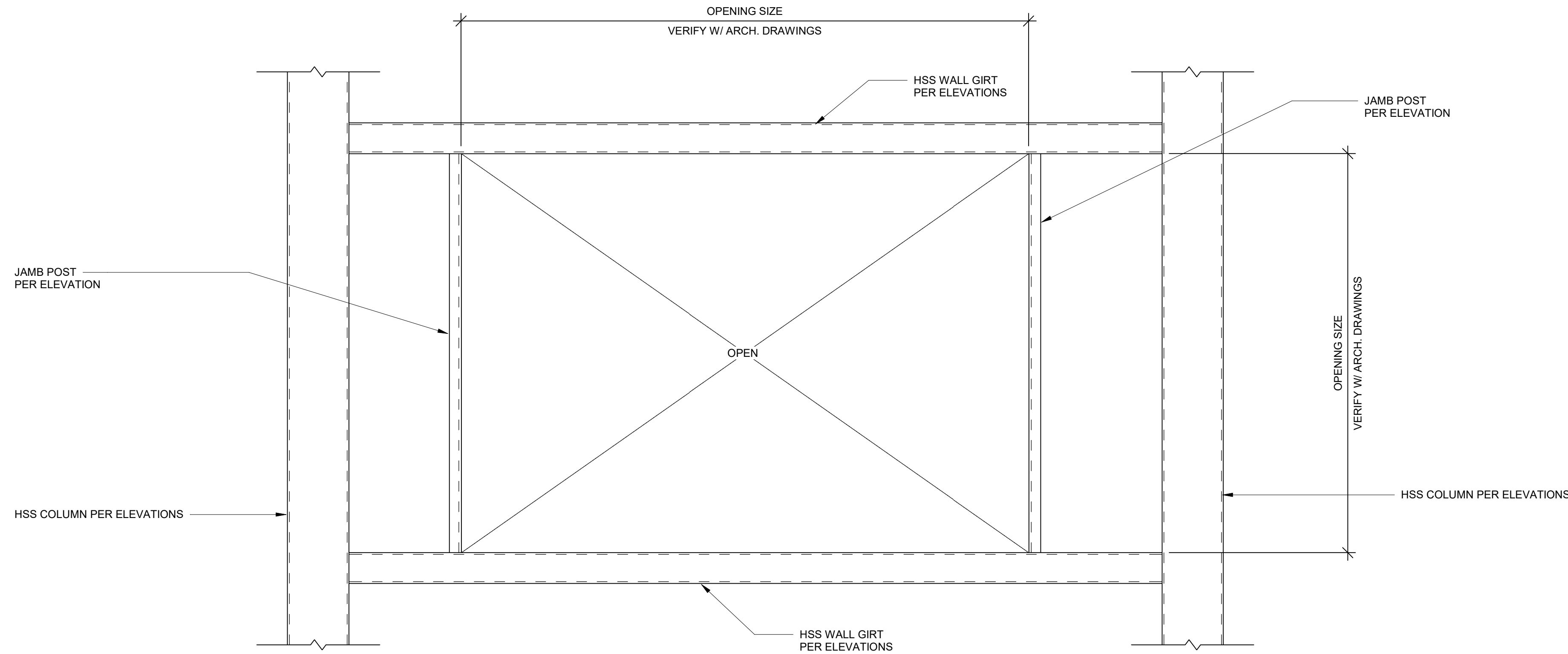
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3 CONNECTION PLAN**  
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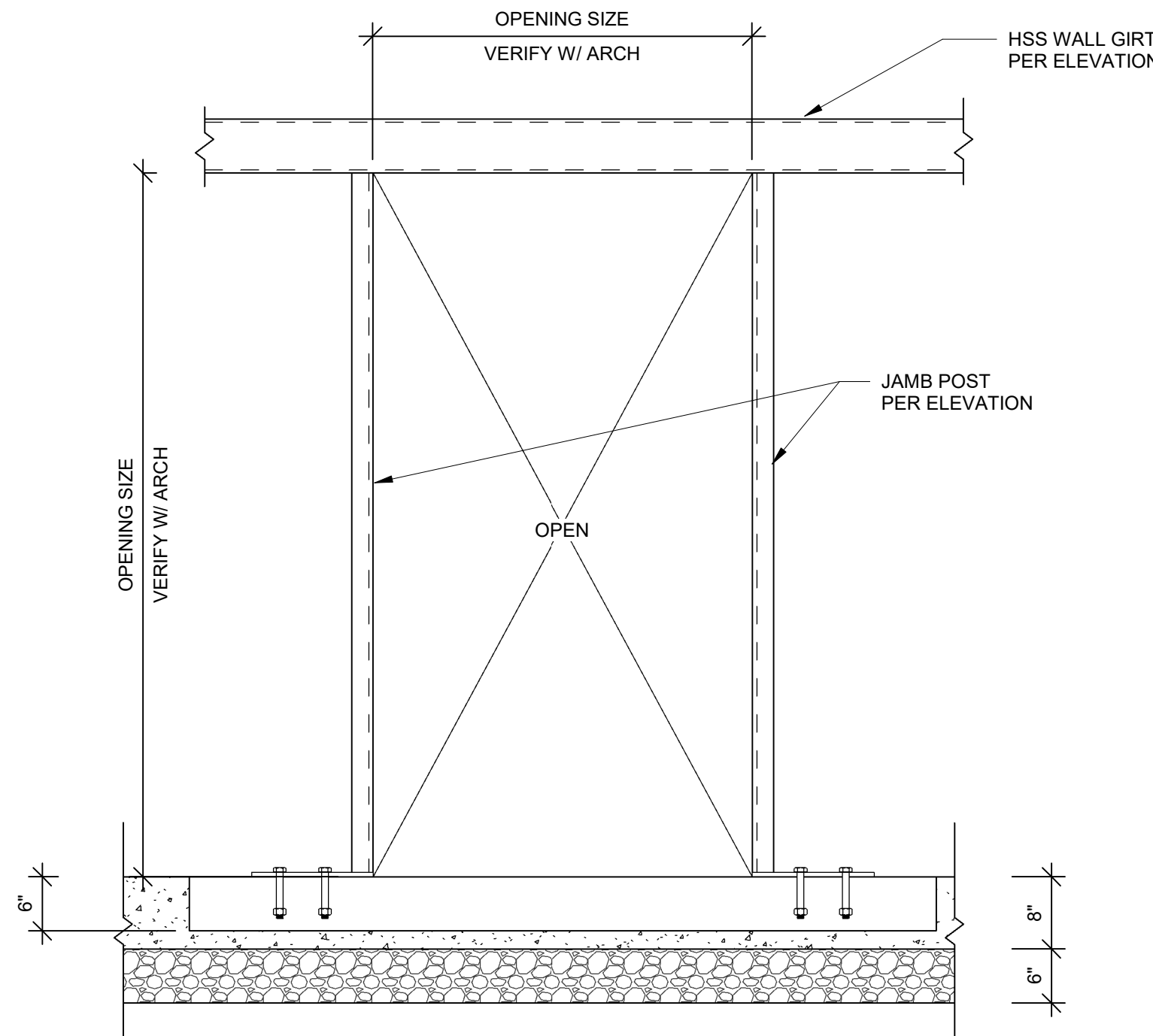
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4 CORNERS**  
3/4" = 1'-0"



**5 TYPICAL WINDOW FRAME**  
3/4" = 1'-0"



**6 TYPICAL DOOR FRAME**  
3/4" = 1'-0"



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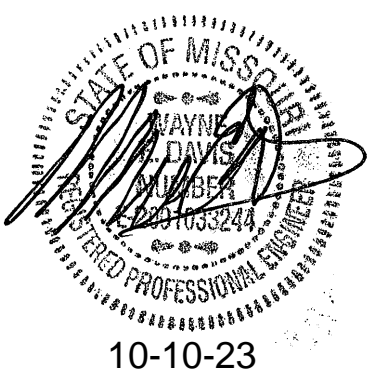
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**S402**



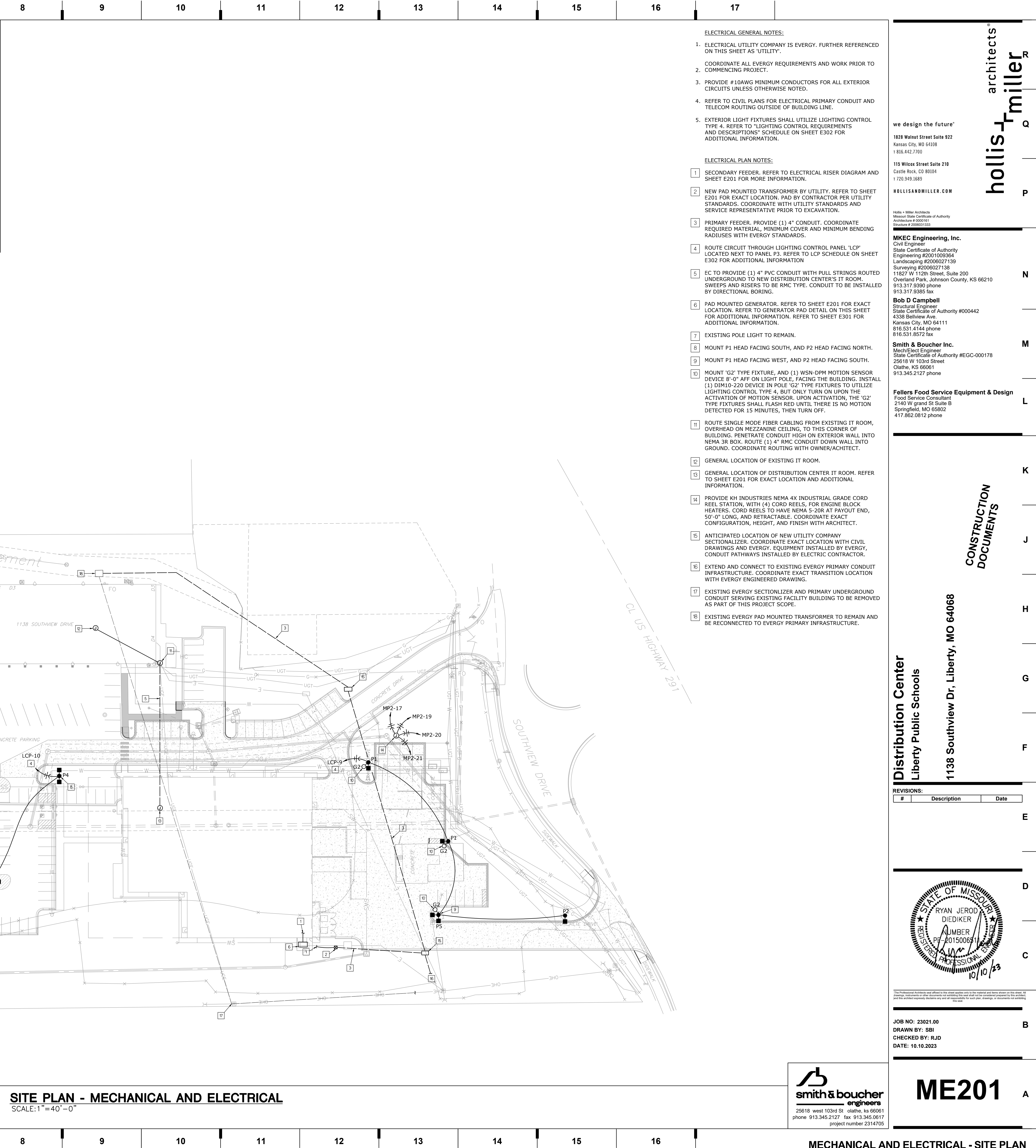
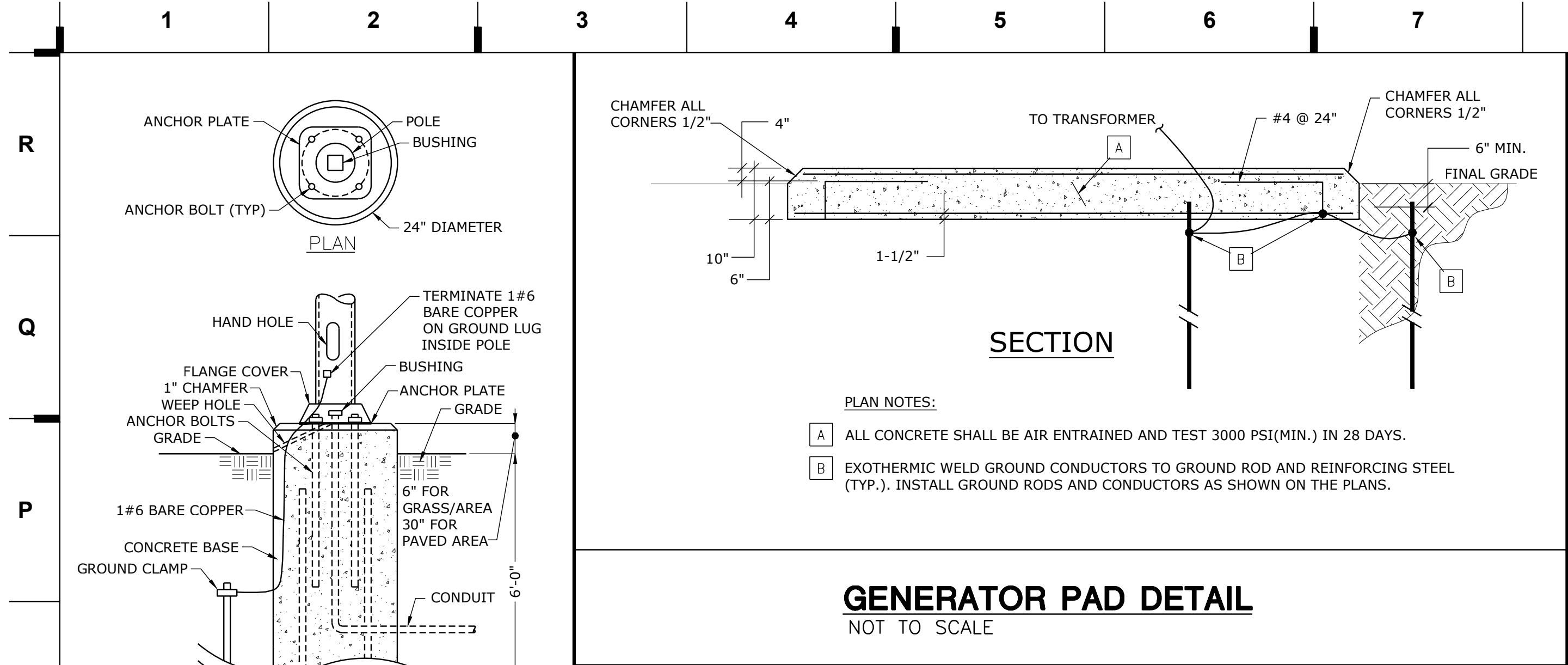
STATE OF MISSOURI  
 RYAN JEROD DIEDIKER  
 REGISTERED PROFESSIONAL ENGINEER  
 NUMBER PE-201500631  
 10/10/23







PROJECT NAME: LOCATION: \NAME: LAST CORRECTION BY: DATE: PLOTTED BY: DATE: TIME: 10/10/23



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Structural # 000003331

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Surveying #2006027138  
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913.317.9390 phone  
913.317.9385 fax

**Bob D Campbell**  
Structural Engineer  
State Certificate of Authority #000442  
4338 Bellview Ave.  
Kansas City, MO 64111  
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816.531.8572 fax

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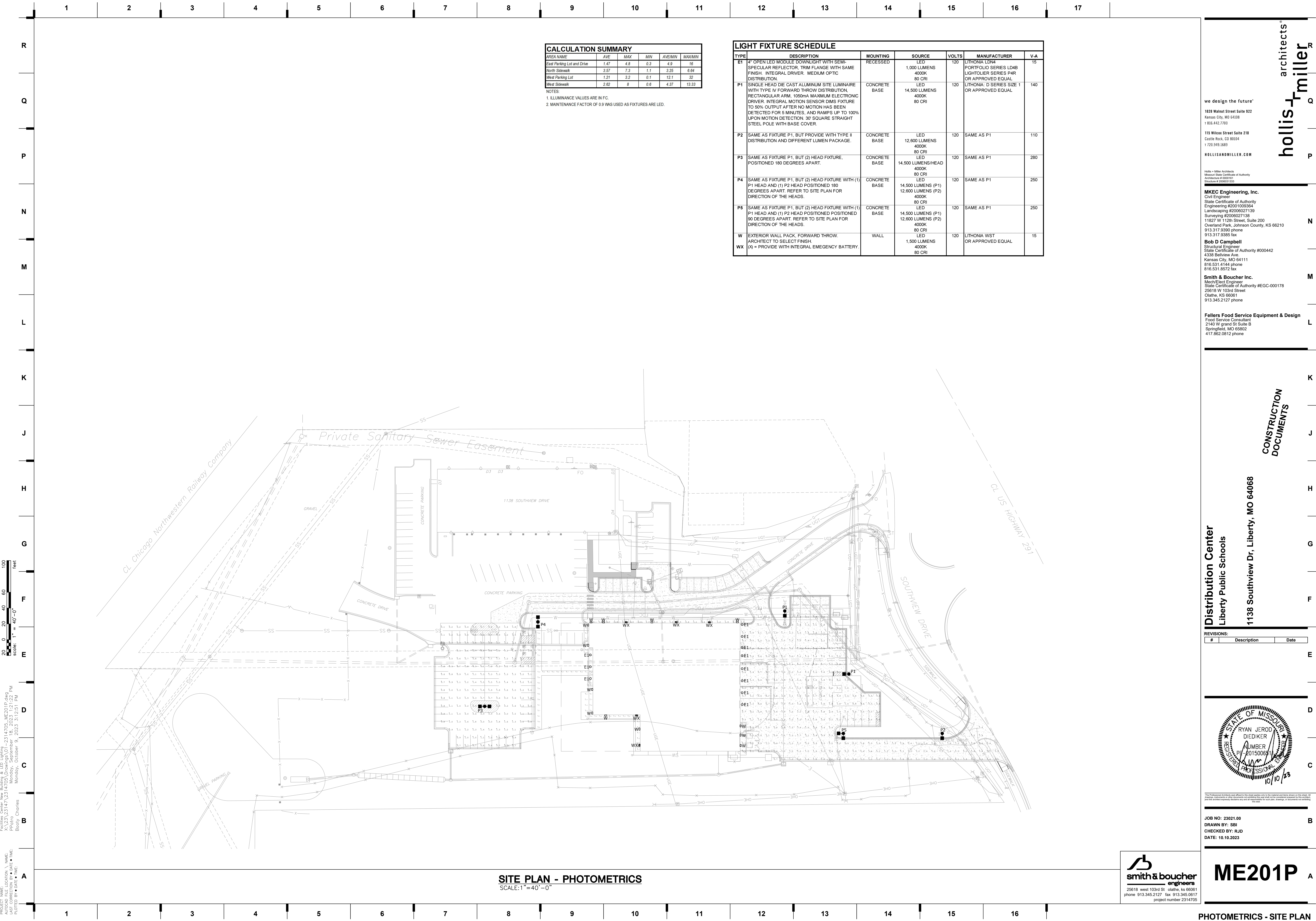
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**STATE OF MISSOURI**  
RYAN JEROD DIEDIKER  
JANUARY 201500691  
PROFESSIONAL SEAL  
10/10/23

The Professional Seal and Stamp is the official seal of the engineer and shall be used on all drawings and documents prepared by the engineer. All drawings and documents prepared by the engineer shall be signed and sealed by the engineer. The seal and stamp shall be used on all drawings and documents prepared by the engineer. The seal and stamp shall be used on all drawings and documents prepared by the engineer.

JOB NO: 23021.00  
DRAWN BY: SBI  
CHECKED BY: RJD  
DATE: 10.10.2023





CALCULATION SUMMARY					
AREA NAME	AVE	MAX	MIN	AVE/MIN	MAX/MIN
East Parking Lot and Drive	1.47	4.9	0.3	4.9	16
North Sidewalk	3.57	7.3	1.1	3.25	6.64
West Parking Lot	1.21	3.2	0.1	12.1	32
West Sidewalk	2.62	8	0.6	4.37	13.33

NOTES:  
1. ILLUMINANCE VALUES ARE IN FC.  
2. MAINTENANCE FACTOR OF 0.9 WAS USED AS FIXTURES ARE LED.

LIGHT FIXTURE SCHEDULE						
TYPE	DESCRIPTION	MOUNTING	SOURCE	VOLTS	MANUFACTURER	V-A
E1	4" OPEN LED MODULE DOWNLIGHT WITH SEMI-SPECULAR REFLECTOR, TRIM FLANGE WITH SAME FINISH. INTEGRAL DRIVER. MEDIUM OPTIC DISTRIBUTION.	RECESSED	LED 1,000 LUMENS 4000K 80 CRI	120	LITHONIA LDN4 PORTFOLIO SERIES LD48 LIGHTOLIER SERIES P4R OR APPROVED EQUAL	15
P1	SINGLE HEAD DIE CAST ALUMINUM SITE LUMINAIRE WITH TYPE IV FORWARD THROW DISTRIBUTION, RECTANGULAR ARM, 1050mA MAXIMUM ELECTRONIC DRIVER, INTEGRAL MOTION SENSOR DIMS FIXTURE TO 50% OUTPUT AFTER NO MOTION HAS BEEN DETECTED FOR 5 MINUTES, AND RAMPS UP TO 100% UPON MOTION DETECTION. 30' SQUARE STRAIGHT STEEL POLE WITH BASE COVER.	CONCRETE BASE	LED 14,500 LUMENS 4000K 80 CRI	120	LITHONIA; D SERIES SIZE 1 OR APPROVED EQUAL	140
P2	SAME AS FIXTURE P1, BUT PROVIDE WITH TYPE II DISTRIBUTION AND DIFFERENT LUMEN PACKAGE.	CONCRETE BASE	LED 12,600 LUMENS 4000K 80 CRI	120	SAME AS P1	110
P3	SAME AS FIXTURE P1, BUT (2) HEAD FIXTURE, POSITIONED 180 DEGREES APART.	CONCRETE BASE	LED 14,500 LUMENS/HEAD 4000K 80 CRI	120	SAME AS P1	280
P4	SAME AS FIXTURE P1, BUT (2) HEAD FIXTURE WITH (1) P1 HEAD AND (1) P2 HEAD POSITIONED 180 DEGREES APART. REFER TO SITE PLAN FOR DIRECTION OF THE HEADS.	CONCRETE BASE	LED 14,500 LUMENS (P1) 12,600 LUMENS (P2) 4000K 80 CRI	120	SAME AS P1	250
P5	SAME AS FIXTURE P1, BUT (2) HEAD FIXTURE WITH (1) P1 HEAD AND (1) P2 HEAD POSITIONED 90 DEGREES APART. REFER TO SITE PLAN FOR DIRECTION OF THE HEADS.	CONCRETE BASE	LED 14,500 LUMENS (P1) 12,600 LUMENS (P2) 4000K 80 CRI	120	SAME AS P1	250
W	EXTERIOR WALL PACK, FORWARD THROW. ARCHITECT TO SELECT FINISH.	WALL	LED 1,500 LUMENS 4000K 80 CRI	120	LITHONIA WST OR APPROVED EQUAL	15
WX	(X) = PROVIDE WITH INTEGRAL EMERGENCY BATTERY.					

SITE PLAN - PHOTOMETRICS  
SCALE: 1"= 40'-0"

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1828 Walnut Street Suite 922  
Kansas City, MO 64108  
1 816.442.7700

115 Wilcox Street Suite 210  
Castle Rock, CO 80104  
1 720.949.1689

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Holla + Miller Architects  
Missouri State Certificate of Authority  
Architecture # 0000181  
Structure # 0000031331

MKEC Engineering, Inc.

Civil Engineer  
State Certificate of Authority  
Engineering #2001009364  
Landscaping #2006027139  
Surveying #2006027138  
11827 W 112th Street, Suite 200  
Overland Park, Johnson County, KS 66210  
913.317.9390 phone  
913.317.9385 fax

Bob D Campbell

Structural Engineer  
State Certificate of Authority #000442  
4338 Bellview Ave.  
Kansas City, MO 64111  
816.531.4144 phone  
816.531.8572 fax

Smith & Boucher Inc.

Mech/Elect Engineer  
State Certificate of Authority #EGC-000178  
25618 W 103rd Street  
Olathe, KS 66061  
913.345.2127 phone

Fellers Food Service Equipment & Design

Food Service Consultant  
2140 W Grand St Suite B  
Springfield, MO 65802  
417.862.0812 phone

Distribution Center  
Liberty Public Schools

1138 Southview Dr, Liberty, MO 64068

REVISIONS:

#	Description	Date
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STATE OF MISSOURI  
RYAN JEROD DIEDIKER  
JULY 201500691  
REGISTERED PROFESSIONAL ENGINEER  
10/10/23

The Professional Seal and Stamp of the Engineer and Surveyor are hereby placed on this sheet. All drawings, specifications and other documents are submitted for review and approval by the State of Missouri. The Professional Seal and Stamp of the Engineer and Surveyor are hereby placed on this sheet. All drawings, specifications and other documents are submitted for review and approval by the State of Missouri.

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smith & boucher

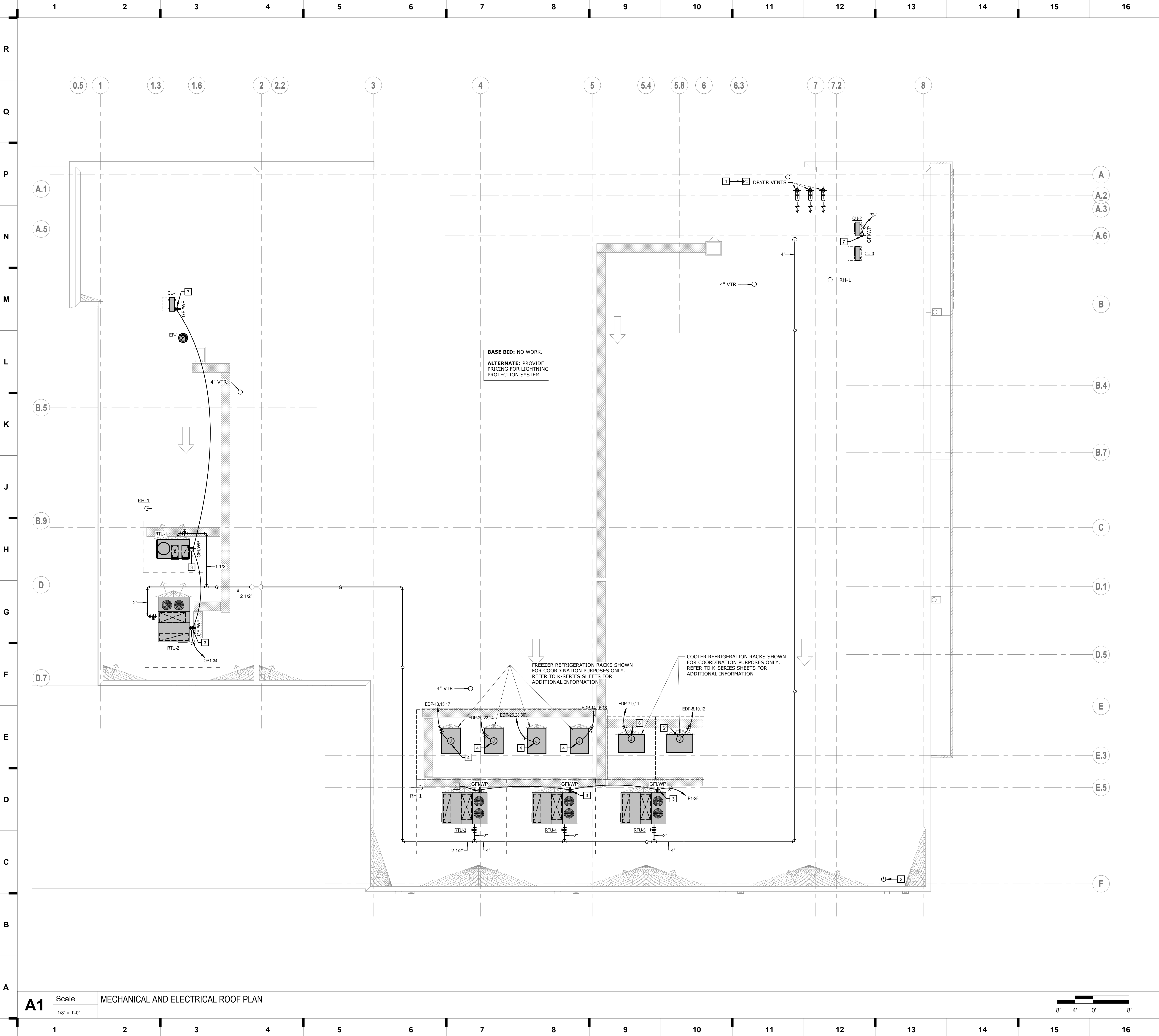
engineers

25618 west 103rd St. olathe, ks 66061  
phone 913.345.2127 fax 913.345.0617  
project number 2314705

ME201P

PHOTOMETRICS - SITE PLAN





## SHEET KEYNOTE LEGEND

### ELECTRICAL GENERAL NOTES:

1. REFER TO SHEET E201 FOR TYPICAL ELECTRICAL GENERAL NOTES APPLICABLE TO ENTIRE PROJECT.

### ELECTRICAL PLAN NOTES:

- 1 MOUNT EXTERIOR PHOTOCELL ON ROOF AND AIM NORTH. INSTALL PER MANUFACTURER'S MOUNTING RECOMMENDATIONS.
- 2 ROOF PENETRATION FOR FUTURE PHOTOVOLTAIC INSTALLATION. PATCH AND SEAL ROOF PENETRATION TO MAINTAIN WARRANTY. PROVIDE (2) 1-1/2" CONDUIT WITH PULLSTRINGS FROM ROOF, DOWN TO FIRST FLOOR. REFER TO SHEET E201 FOR ADDITIONAL INFORMATION.
- 3 REFER TO RTU SCHEDULE NOTE 2 ON SHEET ME301 FOR ADDITIONAL INFORMATION.
- 4 ELECTRICAL CONNECTION FOR FREEZER CONTROL PANEL. CIRCUIT WITH (4)#6, (1)#10G., IN 1" C. VERIFY ALL ELECTRICAL REQUIREMENTS WITH EQUIPMENT PROVIDED PRIOR TO INSTALLATION. COORDINATE EXACT LOCATION WITH ALL TRADE PARTNERS.
- 5 NOT USED.
- 6 ELECTRICAL CONNECTION FOR COOLER CONTROL PANEL. CIRCUIT WITH (4)#6, (1)#10G., IN 3/4" C. VERIFY ALL ELECTRICAL REQUIREMENTS WITH EQUIPMENT PROVIDED PRIOR TO INSTALLATION. COORDINATE EXACT LOCATION WITH ALL TRADE PARTNERS.
- 7 MOUNT RECEPTACLE ON SAME UNISTRUT THAT THE CONDENSING UNIT DISCONNECT IS MOUNTED TO.

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Kansas City, MO 64108  
1.816.442.7700

115 Wilcox Street Suite 210  
Castle Rock, CO 80104  
1.720.949.1589

HOLLISANDMILLER.COM

Hollis + Miller Architects  
Missouri State Certificate of Authority  
Architecture # 0000101  
Structure # 200601333

**MKEC Engineering, Inc.**  
Civil Engineer  
State Certificate of Authority  
Engineering #2001009364  
Landscaping #2006027139  
Surveying #2006027138  
11827 W 112th St #200  
Overland Park, KS 66210  
913.317.5590 phone

**Bob D. Campbell & Co.**  
Structural Engineer  
State Certificate of Authority # 000442  
4338 Bellevue Ave.  
Kansas City, MO 64111  
816.531.4144 phone  
816.531.8572 fax

**Smith & Boucher Engineers**  
Mech/Elect Engineer  
State Certificate of Authority # EFC-000178  
25618 W 103rd St  
Olathe, KS 66061  
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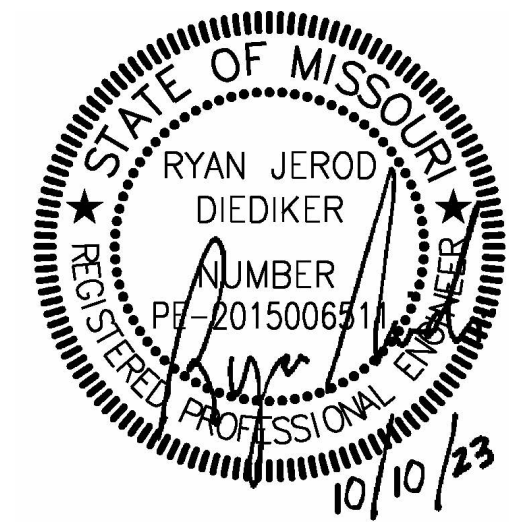
**Fellers Food Service Equipment & Design**  
Food Service Consultant  
2140 W Grand St Suite B  
Springfield, MO 65802  
417.862.0812 phone

CONSTRUCTION  
DOCUMENTS

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Liberty Public Schools  
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**smith & boucher**  
engineers  
25618 west 103rd st. olathe, ks 66061  
phone 913.345.2127 fax 913.345.0617  
project number 2314705

# ME202

MECHANICAL AND ELECTRICAL - ROOF PLAN







NOTES:


1. PROVIDE CHROME PLATED BRASS TAILPIECE AND GRID DRAIN.
2. PROVIDE CHROME PLATED BRASS P-TRAP.
3. PROVIDE LOOSE KEY STOPS AND FLEXIBLE RISERS.
4. INSULATE EXPOSED TAILPIECE, P-TRAP, AND WATER RISERS.
5. PROVIDE WITH ALL MOUNTING HARDWARE AS REQUIRED. FIXTURE STUDS AND NUTS SHALL BE STAINLESS STEEL.

NATURAL GAS LOAD SCHEDULE				
MARK	DESCRIPTION	LOCATION	GAS INPUT (MBH)	NOTES
RTU-1	ROOFTOP UNIT	ROOF	150	
RTU-2	ROOFTOP UNIT	ROOF	250	
RTU-3	ROOFTOP UNIT	ROOF	320	
RTU-4	ROOFTOP UNIT	ROOF	320	
RTU-5	ROOFTOP UNIT	ROOF	150	
DWH-1	WATER HEATER	MEP A118	398	
DRYER	COMMERCIAL CLOTHES DRYER	LAUNDRY A117	112	
DRYER	COMMERCIAL CLOTHES DRYER	LAUNDRY A118	112	
DRYER	COMMERCIAL CLOTHES DRYER	LAUNDRY A119	112	
TOTAL			1925	

PIPE INSULATION SCHEDULE - PLUMBING			
SERVICE	INSULATION CONDUCTIVITY Btu " in / hr * ft <sup>2</sup> * F	PIPE SIZE	INSULATION
DOMESTIC COLD WATER	0.21 - 0.27	1/2" - 2" 2-1/2" AND LARGER	1" FIBERGLASS, ASJ - NOTE 1 1" FIBERGLASS, ASJ - NOTE 1
DOMESTIC HOT WATER < 140F RECIRCULATING HOT WATER < 140F TEMPERED WATER < 140F	0.21 - 0.28	1/2" - 1-1/4" 1-1/2" AND LARGER	1" FIBERGLASS, ASJ - NOTE 1 1-1/2" FIBERGLASS, ASJ - NOTE 1
DOMESTIC HOT WATER > 141F RECIRCULATING HOT WATER > 141F	0.25 - 0.29	1/2" - 1-1/4" 1-1/2" AND LARGER	1-1/2" FIBERGLASS, ASJ - NOTE 1 2" FIBERGLASS, ASJ - NOTE 1
EXPOSED FUTURE WASTE TRAPS AND DOMESTIC WATER AT HANDICAPPED ACCESSIBLE SINKS AND LAVATORIES	NA	ALL	TRUBRO LAV AGUARD MOLDED PROTECTIVE PIPE COVER OVER 1/2" FIBERGLASS INSULATION

DESIGNATION		DWH-1
ELEC. CONTROL	MANUFACTURER	LOCHINVAR
	MODEL	SWA28SN
	CAPACITY (GALLONS)	110
	RECOVERY @ 100°F RISE (GPH)	328
	OUTLET TEMP. (°F)	140
	THERMAL EFFICIENCY (%)	98
	INPUT (MBH)	399
	VOLTAGE/PHASE	120/1
	PANEL & CIRCUIT	MP-1-1
	WIRE & CONDUIT	(2)#12.#12G, 1/2" C.
OVERCURRENT DEVICE	20A/1P CB	
DISCONNECT	INTEGRAL	
REFERENCE DRAWING/DETAIL		
REMARKS		1, 2, 3

DESIGNATION		DWH-2
ELEC. CONTROL	MANUFACTURER	AO SMITH
	MODEL	DEL-15
	CAPACITY (GALLONS)	15
	RECOVERY @ 100°F RISE (GPH)	24
	OUTLET TEMP. (°F)	140
	THERMAL EFFICIENCY (%)	N/A
	INPUT (KW)	6 (3/3)
	VOLTAGE/PHASE	208/1
	PANEL & CIRCUIT	MP1-1,3
	WIRE & CONDUIT	(3#) (1#)10G, IN 3/4"C
OVERCURRENT DEVICE	40A/2P CB	
DISCONNECT	INTEGRAL	
REFERENCE DRAWING/DETAIL		
REMARKS		1,2,3

 **smith & boucher**  
engineers  
25618 west 103rd St olathe, ks 66061  
phone 913.345.2127 fax 913.345.0617  
project number 2314705

**MKEC Engineering, Inc.**  
Civil Engineer  
State Certificate of Authority  
Engineering #00009364  
Licensing #0206027139  
Surveying #0000271398  
11827 W 112th Street, Suite 200  
Overland Park, Kansas County, KS 66210  
913.377.9390 phone  
913.377.9385 fax

**Bob D Campbell**  
Structural Engineer  
State Certificate of Authority  
Engineering #0000442  
4338 Bellvue Ave  
Kansas City, MO 64111  
816.531.4744 phone  
816.531.8972 fax

**Smith & Boucher Inc.**  
Mech/Elect Engineer  
State Certificate of Authority #EGC-000178  
265 E W 132nd Street  
Olathe, KS 66061  
913.345.2127 phone

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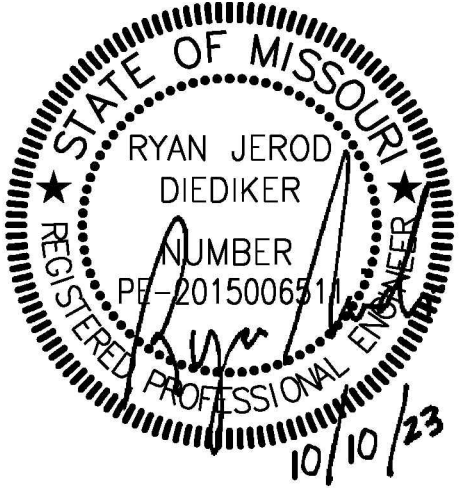
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# ME302





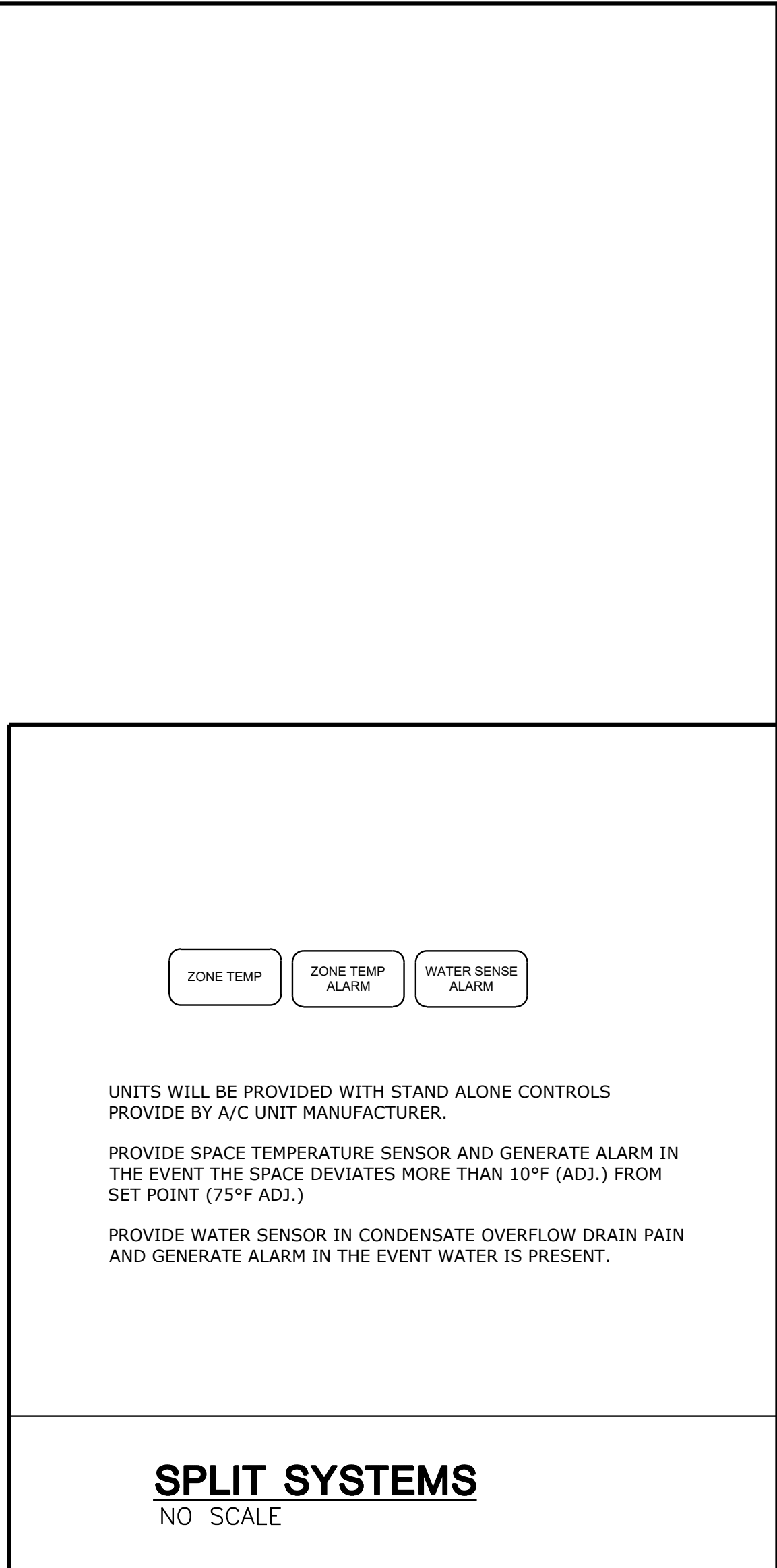


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## PACKAGED SINGLE ZONE VAV ROOFTOP CONTROL DIAGRAM

NTS



## GENERATOR

NO SCALE

PROVIDE GRAPHICAL DISPLAY FOR GENERATOR OPERATION.

PROVIDE MONITORING AND ALARMING OF GENERATOR.

WHEN BUILDING POWER LOSS OCCURS GENERATE ALARM. BMS TO DISPLAY THAT POWER IS DOWN ON ALL NON-BACKED UP SYSTEMS AND DISABLE ALARMING WHILE POWER LOSS IS PRESENT ON THOSE SYSTEMS TO PREVENT NUISANCE ALARMS.

FANS SHALL RUN CONTINUOUSLY DURING OCCUPIED HOURS. DURING UNOCCUPIED HOURS, FANS SHALL CYCLE EVERY 30 MINUTES (ADJ.).

## DESTRATIFICATION FANS

NO SCALE

## OA CONDITIONS

NO SCALE

SENSORS MOUNTED ON THE NORTH SIDE OF THE BUILDING SHALL CONTINUALLY BROADCAST OUTSIDE AIR TEMPERATURE AND HUMIDITY ON THE NETWORK AS GLOBAL INFORMATION. OUTSIDE AIR TEMPERATURE AND HUMIDITY SHALL BE DISPLAYED ON ALL SYSTEM GRAPHICS.

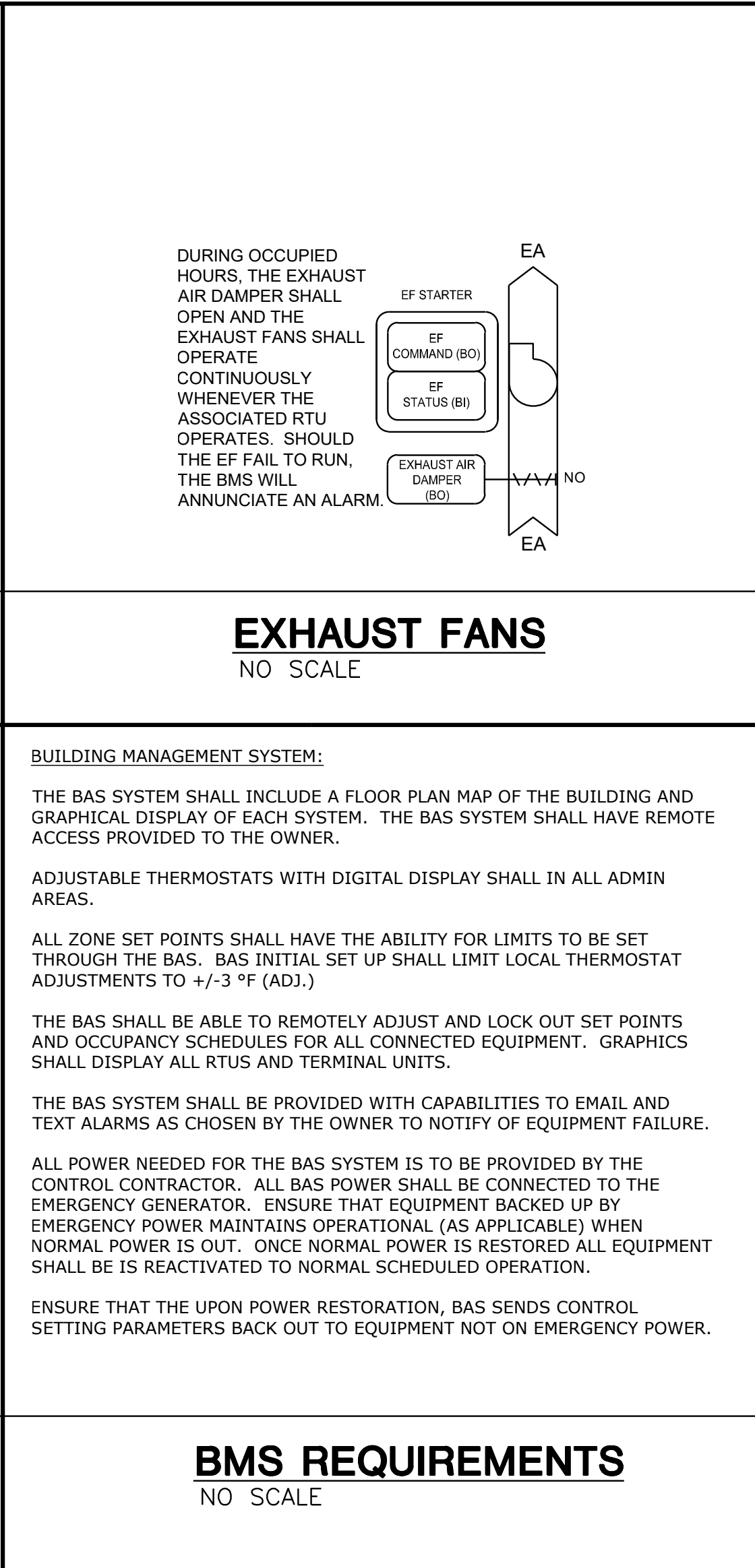
COOLER AND FREEZER MONITORING: THE BAS SYSTEM SHALL MONITOR THE WALK-IN COOLER AND WALK-IN FREEZER TEMPERATURES AND PROVIDE ALARM BASED UPON HIGH LIMIT SETPOINT.

## WALK IN COOLER/ FREEZER ALARM

NO SCALE

## PACKAGED MULTI ZONE VAV ROOFTOP CONTROL DIAGRAM

NTS



## VAV TERMINAL UNIT SEQUENCE

SCHEDULING:  
THE UNIT SHALL BE INDEXED TO THE OCCUPIED OR UNOCCUPIED MODE VIA THE BMS OCCUPANCY SCHEDULE.

OCCUPIED MODE:  
UPON A RISE IN ZONE TEMPERATURE ABOVE THE SET POINT (74°F, ADJ.), THE PRIMARY AIR DAMPER SHALL INCREASE THE CFM AND THE ELECTRIC HEAT REMAINS OFF. ON A DROP IN ZONE TEMPERATURE BELOW THE SET POINT (71°F, ADJ.), THE PRIMARY DAMPER SHALL DECREASE TO THE MINIMUM CFM. ONCE HEATING IS NEEDED, THE PRIMARY AIR DAMPER SHALL INCREASE TO THE HEATING CFM AND THE SCR ELECTRIC HEAT IS TURNED ON. THE SCR HEATING COIL WILL BE ENERGIZED BASED ON DEVIATION FROM SPACE SETPOINT, MODULATE THE SCR HEATING COIL FROM 0%-100% ENERGIZED. THE 5°F DEADBAND SHALL BE MAINTAINED WHEN LOCAL SET POINT ADJUSTMENTS ARE MADE.

UNOCCUPIED (NIGHT SETBACK) MODE:  
DURING NIGHT SETBACK, ALL OF THE VAV BOX CONTROLLERS ARE INDEXED TO UNOCCUPIED MODE. WHEN THE ZONE TEMPERATURE IS BETWEEN THE UNOCCUPIED HEATING (62°F, ADJ.) AND COOLING (83°F, ADJ.) SET POINTS, THE PRIMARY AIR DAMPER SHALL BE CLOSED AND THE ELECTRIC HEAT SHALL BE OFF. ON A RISE IN ZONE TEMPERATURE ABOVE THE UNOCCUPIED COOLING SET POINT, A REQUEST FOR COOLING SHALL BE SENT TO THE BMS. ONCE FIVE UNITS HAVE REQUESTED FOR COOLING OR A SINGLE ZONE EXCEEDS SET POINT BY 5°F (ADJ.), THE ROOF TOP UNIT SHALL START, THE PRIMARY AIR DAMPER SHALL INCREASE THE CFM, AND THE ELECTRIC HEAT REMAINS OFF. ON A DROP IN ZONE TEMPERATURE BELOW THE UNOCCUPIED HEATING SET POINT, A REQUEST WILL BE SENT TO THE BMS. ONCE FIVE UNITS HAVE REQUESTED FOR HEATING, THE ROOF TOP UNIT SHALL START, THE PRIMARY AIR DAMPER SHALL INCREASE THE CFM TO THE MAXIMUM SETTING, AND THE SCR ELECTRIC HEAT SHALL ENERGIZE TO 100%.

MORNING WARM UP/COOL DOWN:  
WHEN THE SPACE TEMPERATURE IS BELOW SET POINT MORNING WARM UP SHALL BE PROVIDED. WHEN THE SPACE TEMPERATURE IS ABOVE SET POINT, MORNING COOL SHALL BE PROVIDED. DURING MORNING WARM UP, THE PRIMARY AIR DAMPER IS OPEN AND THE ELECTRIC HEAT ENERGIZES ALL STATUSES. DURING MORNING COOL DOWN THE ELECTRIC HEAT IS OFF AND THE PRIMARY AIR DAMPER MODULATES TO MAINTAIN SET POINT. ONCE THE SPACE IS WITHIN 2°F (ADJ.) OF SET POINT, SIGNAL THE BMS AND TRANSITION TO THE OCCUPIED SEQUENCE OF CONTROL.

SET POINT LIMIT RANGE:  
LIMIT SET POINT ADJUSTMENTS FROM THE SPACE THERMOSTAT TO +/- 3°F (ADJ.).

TIMED OVERRIDE:  
MODE USED TO TEMPORARILY PLACE THE UNIT INTO OCCUPIED OPERATION. THE OVERRIDE FUNCTION WILL LAST FOR A MAXIMUM OF 2 HOURS(ADJ.).

smith & boucher  
engineers  
25618 west 103rd St. olathe, ks 66061  
phone 913.345.2127 fax 913.345.0617  
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## VAV TERMINAL SCHEMATIC

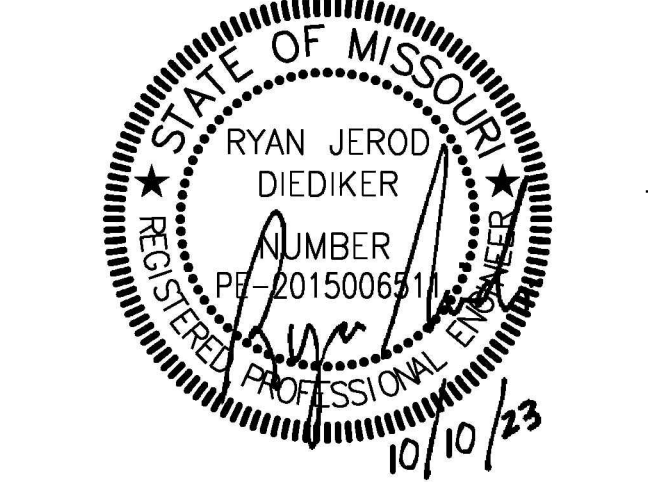
NO SCALE

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## REVISIONS:

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1	Issue for Review	10/10/23



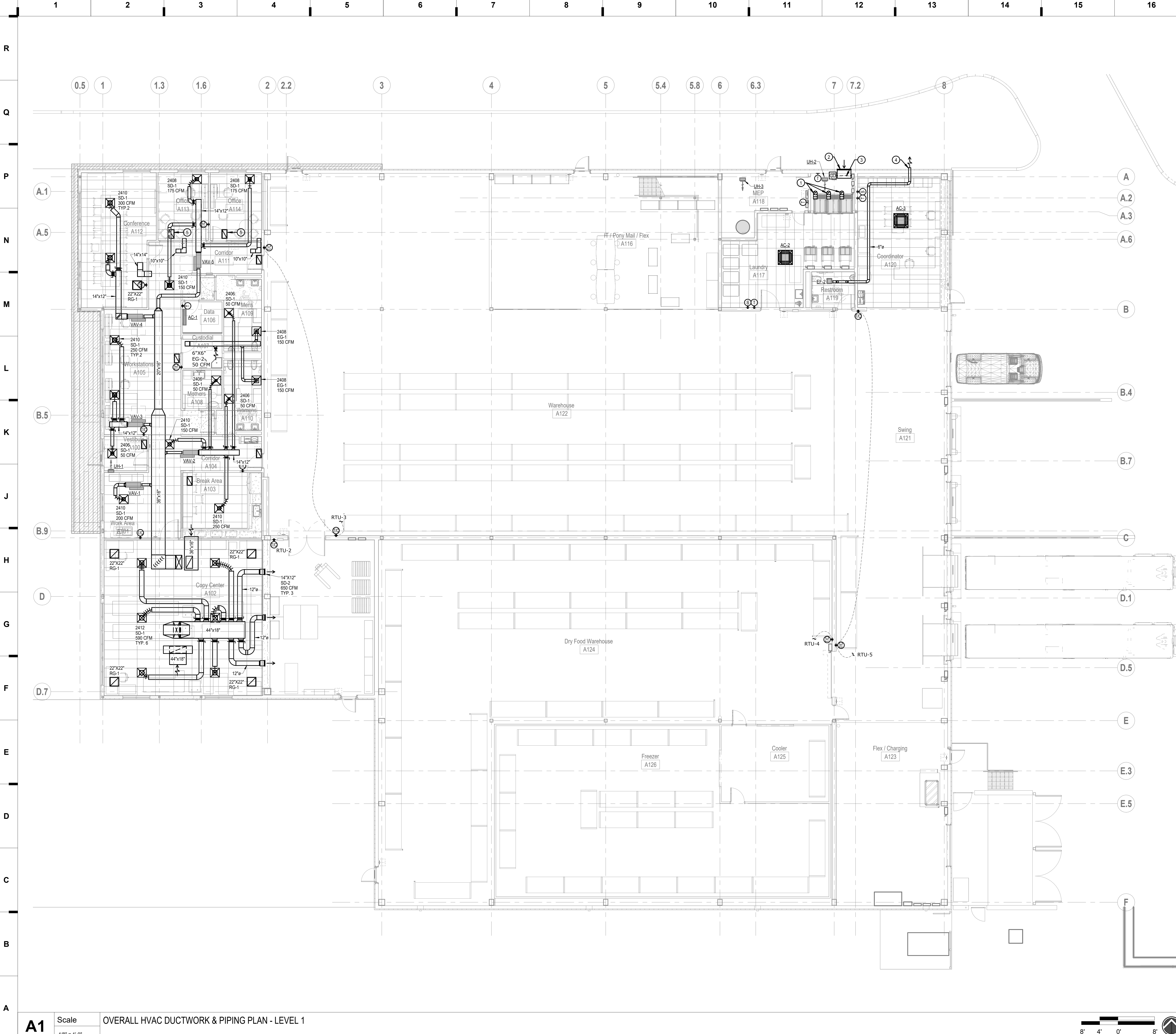
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M201

CONTROL DIAGRAM - HVAC

Please consider the environment before printing this.





SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. INFORMATION SHOWN ON THE DRAWINGS IS INTENDED TO CONVEY SCOPE AND IS ARRANGED FOR DRAWING CLARITY. IT IS NOT TO BE TAKEN AS AN AS-BUILT CONDITION. THE SYSTEM INSTALLATION SHALL BE COORDINATED WITH STRUCTURE, CEILINGS, WALLS, AND ALL OTHER TRADES TO PROVIDE FOR A COMPLETE AND WORKING SYSTEM.
2. ALL DUCTWORK IS SHOWN DIAGRAMMATICALLY AND DOES NOT INCLUDE ALL OFFSETS, DROPS, AND RISES. CAREFULLY COORDINATE DUCT AND PIPE ROUTING WITH STRUCTURE AS WELL AS ALL OTHER TRADES TO MAINTAIN EQUIPMENT CLEARANCES, EQUIPMENT ACCESSIBILITY, DESIRED CEILING HEIGHTS, AND AESTHETICS. THE CONTRACTOR SHALL INCULDE ANY NEEDED OFFSETS AND CHANGES OF DIRECTION IN THE BID PRICING.
3. COORDINATE ALL DUCT PENETRATIONS WITH STRUCTURAL.
4. WALL MOUNTED DEVICES SUCH AS THERMOSTATS, TEMPERATURE SENSORS, HUMIDITY SENSORS, AND PRESSURE SENSORS ARE SHOWN ON PLANS FOR CLAIRTY AND GENERAL REFERENCE OF LOCATIONS. LOCATIONS SHOW ARE NOT TO BE CONSIDERED THE EXACT MOUNTING LOCATION. COORDINATE THE INSTALLATION OF ALL WALL MOUNTED DEVICES WITH THE ARCHITECTURAL ELEVATIONS AND OTHER TRADES WALL MOUNTED DEVICES. GROUP THE INSTALLATION OF ALL THE DEVICES TO THE EXTENT POSSIBLE AND LOCATED DEVICES SUCH THAT THEY DO NOT CONFLICT WITH MILL WORK, TELEVISIONS, FURNITURE, TEACHING BOARDS, AND OTHER SIMILAR OBSTRUCTIONS.
5. PROVIDE FIRESTOPPING AT PENETRATIONS OF ALL RATED WALLS. REFER TO CODE PLANS FOR LOCATIONS OF RATED WALLS.
6. FURNISH ALL EXPOSED DUCTWORK IN FINISHED SPACES WITH PAINTABLE FINISH. PROVIDE A TRIM FLANGE AT WALL PENETRATIONS OF EXPOSED DUCTWORK, FINISH BY ARCHITECT.
7. DUCT SIZES SHOWN ARE SHEET METAL DIMENSIONS. WHERE DUCT LINER IS REQUIRED, DUCT SIZES ARE NOT REQUIRED TO BE INCREASED TO ACCOUNT FOR LINER.
8. RETURN GRILLES ARE 12"x22" RG-1 UNLESS NOTED OTHERWISE.

PLAN NOTES:

- ① 10" (APPROXIMATE) DRYER EXHAUST UP THROUGH ROOF. PROVIDE SIZE AS REQUIRED FOR DRYER PROVIDED.
- ② 36"x24" MAKE-UP AIR LOUVER, RUSKIN ELF375DX. CUSTOM COLOR TO MATCH EXTERIOR CONSTRUCTION
- ③ 120V, MOTORIZED CONTROL DAMPER. INTERLOCK WITH DRYER(S) OPERATION. DAMPER TO REMAIN CLOSED UNTIL (1) OR MORE DRYER AS IN USE.
- ④ PROVIDE RAIN CAP FOR EXHAUST TERMINATION. CUSTOM COLOR TO MATCH EXTERIOR CONSTRUCTION.
- ⑤ PROVIDE SOUND BOOT ON TOP OF RETURN GRILLE, PRICE RAC OR EQUAL.

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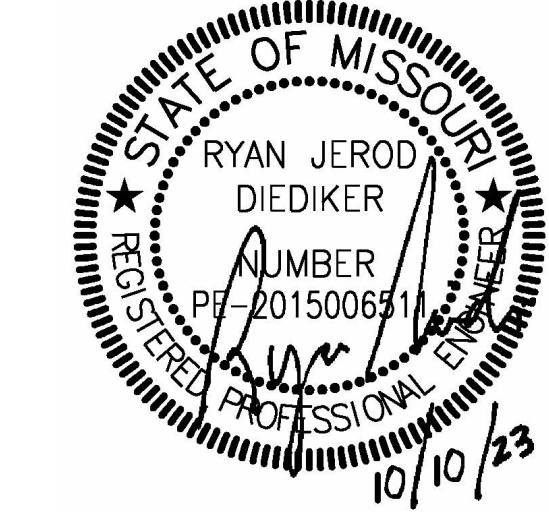
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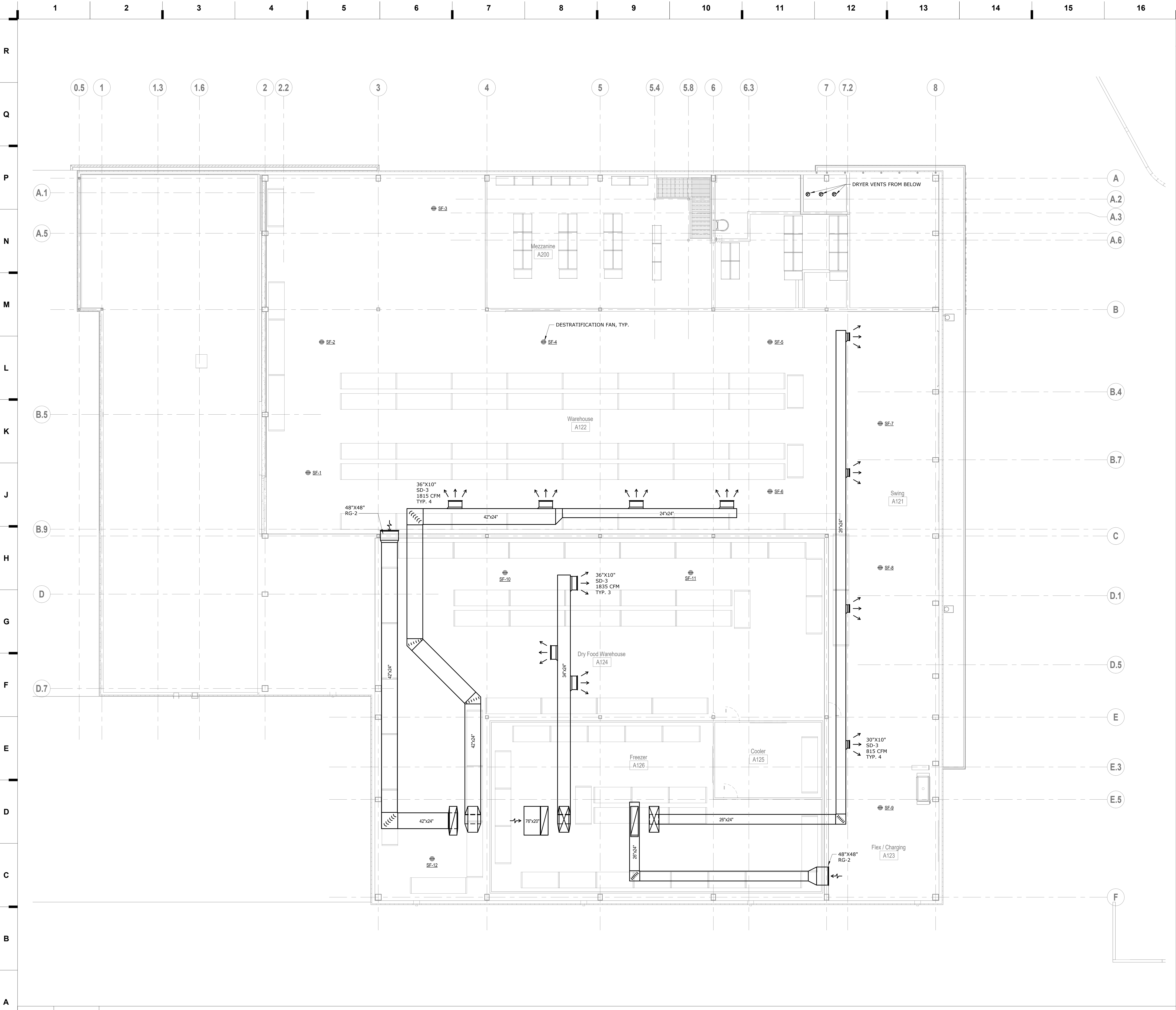
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engineers  
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phone 913.345.2127 fax 913.345.0617  
project number 2314705

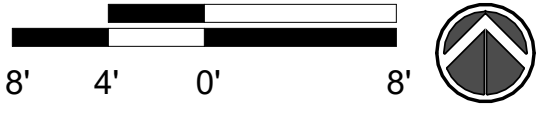
M101



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**A1** Scale OVERALL HVAC DUCTWORK & PIPING PLAN - LEVEL 2  
1/8" = 1'-0"



SHEET KEYNOTE LEGEND

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HOLLISANDMILLER.COM

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Structure # 200001333

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State Certificate of Authority  
Engineering #2001009364  
Landscaping #2006027139  
Surveying #2006027139  
11827 W 112th St #200  
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913.317.5590 phone

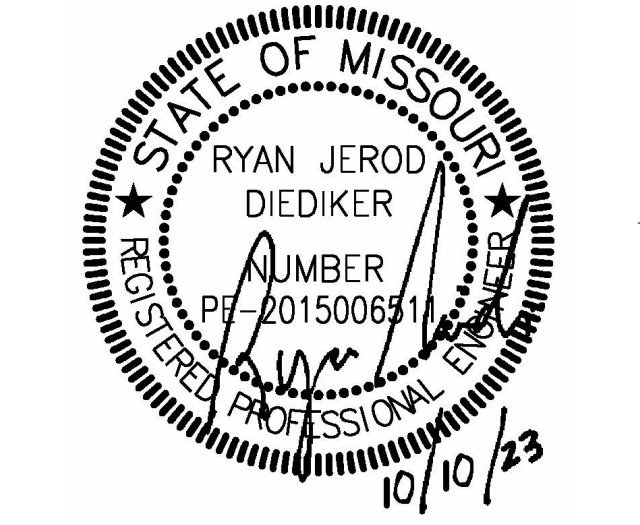
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Structural Engineer  
State Certificate of Authority # 000442  
4338 Bellevue Ave.  
Kansas City, MO 64111  
816.531.4144 phone  
816.531.8572 fax

**Smith & Boucher Engineers**  
Mech/Elect Engineer  
State Certificate of Authority # EFC-000178  
25618 W 103rd St  
Olathe, KS 66061  
913.345.2127 phone

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Food Service Consultant  
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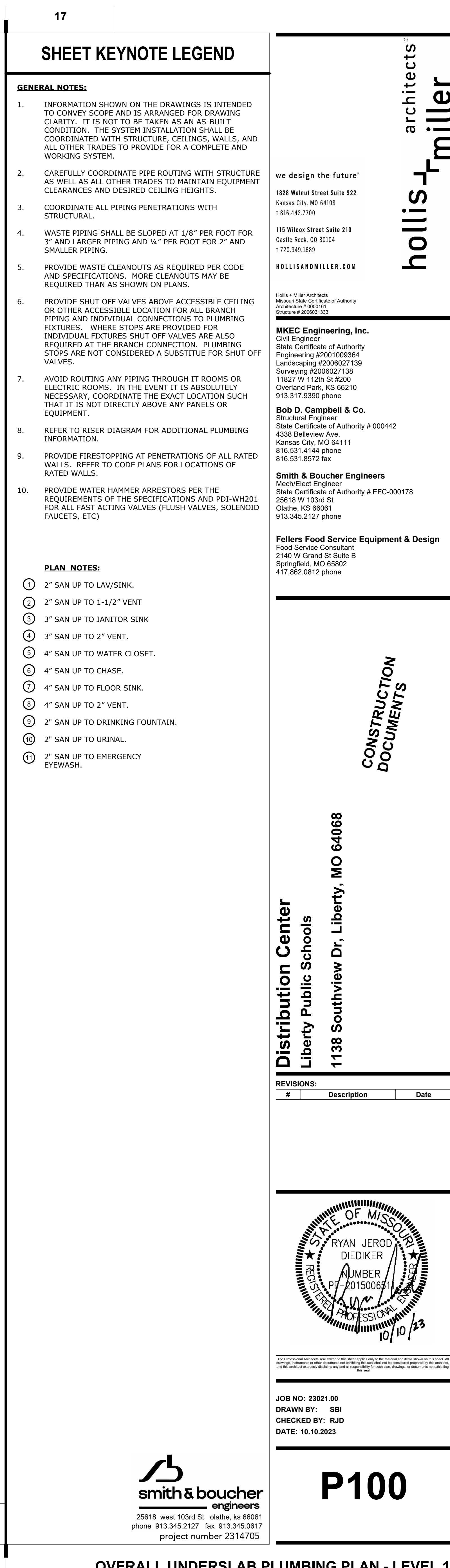


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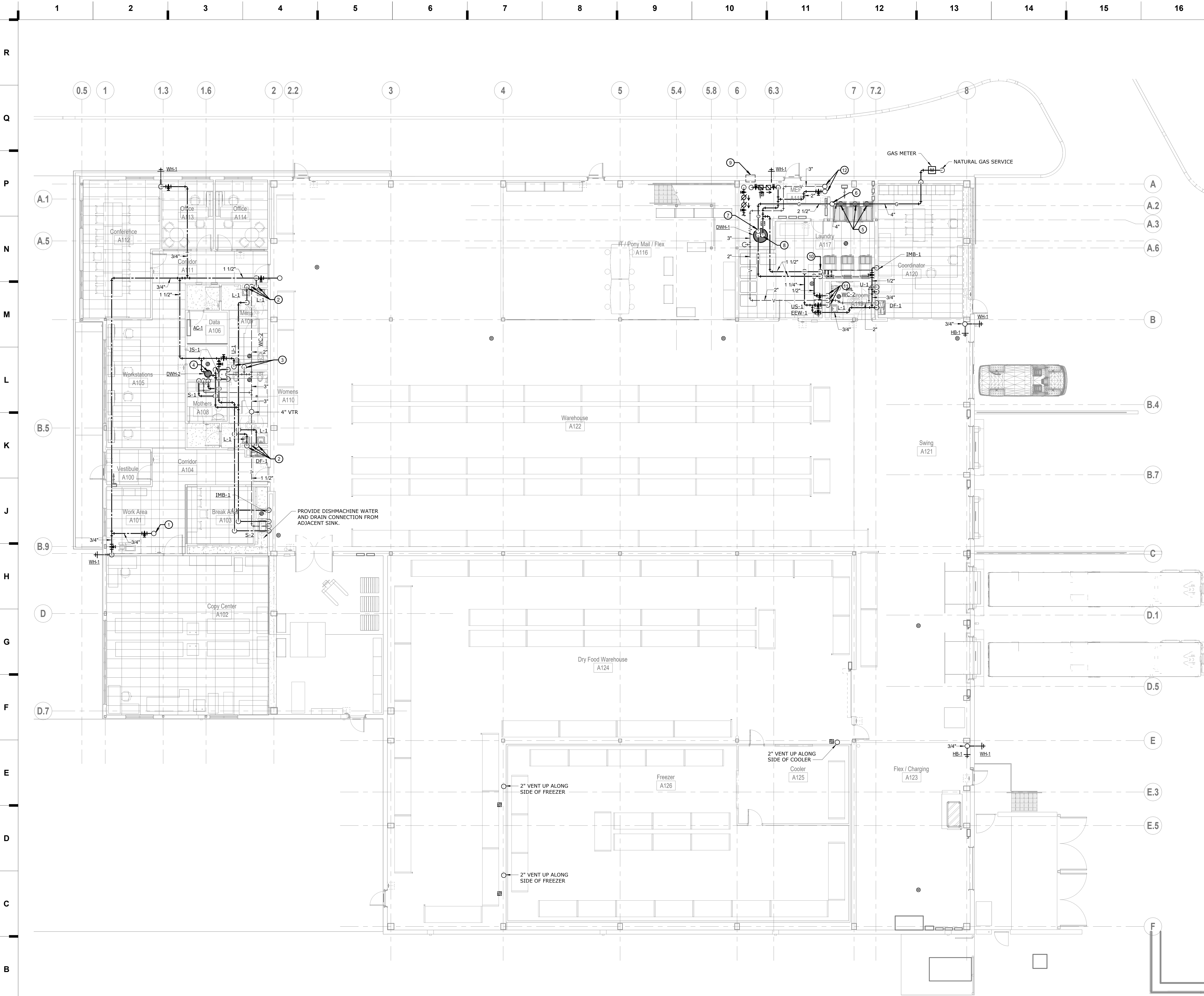
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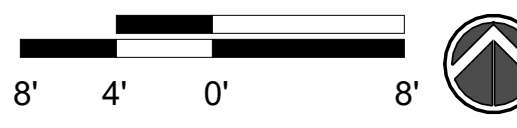




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**A1** Scale OVERALL PLUMBING PLAN - LEVEL 1  
1/8" = 1'-0"



**SHEET KEYNOTE LEGEND**

**GENERAL NOTES:**

1. REFER TO P100 FOR GENERAL NOTES.

**PLAN NOTES:**

- 3/4" CW UP TO ROOF HYDRANT.
- 1/2" CW, 2" VENT & 1/2" HW DOWN INTO CHASE. MAKE CONNECTIONS TO INDIVIDUAL FIXTURES PER PLUMBING FIXTURE SCHEDULE.
- 1-1/2" CW, 2" VENT DOWN INTO CHASE. PROVIDE FULL SIZE HEADERS IN CHASE. MAKE CONNECTIONS TO INDIVIDUAL FIXTURES PER PLUMBING FIXTURE SCHEDULE.
- 3/4" CW AND 3/4" HW CONNECTIONS TO WATER HEATER. SUSPEND WATER HEATER FROM STRUCTURE, OVER JANITOR'S SINK. REFER TO DETAIL.
- 1-1/2" GAS DOWN TO DRYER WITH SHUT OFF VALVE. MAKE CONNECTION TO DRYER PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 4" GAS UP TO LEVEL ABOVE.
- 2-1/2" GAS DOWN TO WATER HEATER WITH SHUT OFF VALVE. MAKE CONNECTION TO WATER HEATER PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 1-1/2" CW AND 1-1/2" HW CONNECTIONS TO WATER HEATER. REFER TO DETAIL.
- PROVIDE WATER HEATER FLUE AND INTAKE AIR TERMINATIONS THROUGH SIDE WALL. SIZE AND INSTALL PER WATER HEATER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 1-1/2" CW AND 1-1/2" HW FOR WASHING MACHINES. PROVIDE 1-1/4" CW AND 1-1/4" HW CONNECTIONS TO EACH MACHINE. PROVIDE INDIVIDUAL SHUT OFF VALVES FOR EACH CONNECTION. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ADDITIONAL CONNECTION REQUIREMENTS.
- 1-1/4" CW, 2" VENT, 3/4" HW DOWN INTO CHASE. PROVIDE FULL SIZE HEADERS IN CHASE. MAKE CONNECTIONS TO INDIVIDUAL FIXTURES PER PLUMBING FIXTURE SCHEDULE.
- 3" VENT, 2" CW UP TO LEVEL ABOVE.

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Structure # 200601333

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Civil Engineer  
State Certificate of Authority  
Engineering #2001009364  
Landscaping #2006027139  
Surveying #2006027138  
11827 W 112th St #200  
Overland Park, KS 66210  
913.317.5590 phone

**Bob D. Campbell & Co.**  
Structural Engineer  
State Certificate of Authority # 000442  
4338 Bellevue Ave.  
Kansas City, MO 64111  
816.531.4144 phone  
816.531.8572 fax

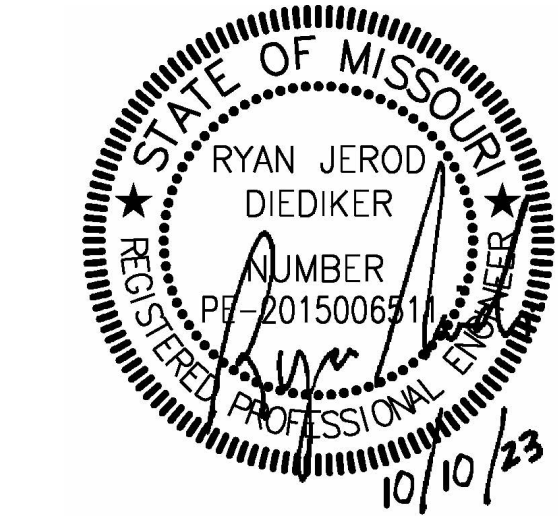
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Mech/Elect Engineer  
State Certificate of Authority # EFC-000178  
25618 W 103rd St  
Olathe, KS 66061  
913.345.2127 phone

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**P101**



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## SHEET KEYNOTE LEGEND

### GENERAL NOTES:

1. REFER TO P100 FOR GENERAL NOTES.

### PLAN NOTES:

- ① 3/4" CW UP TO ROOF HYDRANT.
- ② 4" GAS UP TO ROOF.

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Castle Rock, CO 80104  
t 720.949.1689

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Architecture # 0200101  
Structure # 200601333

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Civil Engineer  
State Certificate of Authority  
Engineering #2001009364  
Landscaping #2006027139  
Surveying #2006027138  
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Overland Park, KS 66210  
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Structural Engineer  
State Certificate of Authority # 000442  
4338 Bellevue Ave.  
Kansas City, MO 64111  
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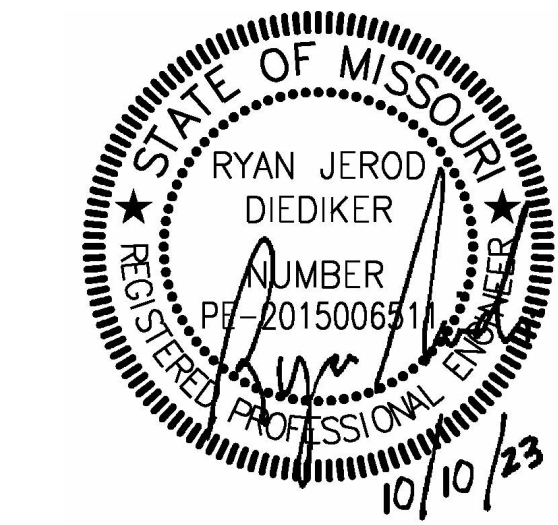
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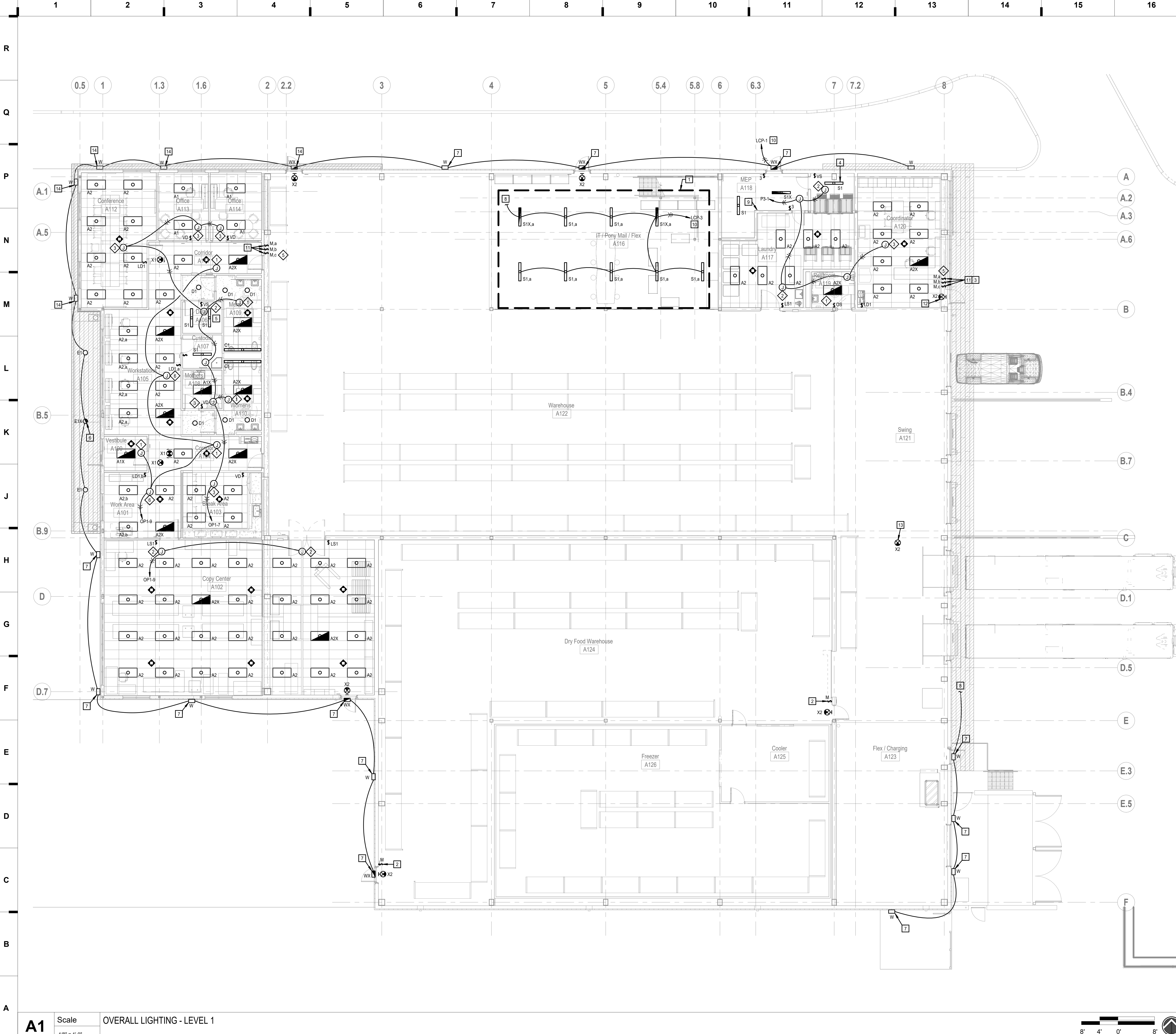
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project number 2314705

# P102

OVERALL PLUMBING PLAN - MEZZ LEVEL

Please consider the environment before printing this.





## SHEET KEYNOTE LEGEND

### GENERAL NOTES:

- CIRCUIT ALL EMERGENCY FIXTURES, EMERGENCY LIGHTING CONTROL UNITS, AND EXIT SIGNS TO A LOCAL (ROOM) UNSWITCHED HOT CONDUCTOR.
- REFER TO ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS FOR EXTERIOR BUILDING MOUNTED LIGHT FIXTURES.
- ALL EXTERIOR BUILDING MOUNTED LIGHT FIXTURES, PROVIDE #10 AWG MINIMUM CONDUCTORS UNLESS NOTED OTHERWISE. APPLY SEALANT BETWEEN MOUNTING PLATE AND WALL SURFACE TO ENSURE A DRY J-BOX.
- REFER TO ARCHITECTURAL FLOORING PLANS AND REFLECTED CEILING PLANS OF EXACT MOUNTING LOCATIONS OF ALL LIGHT FIXTURES AND WALL MOUNTED ELECTRICAL DEVICES.
- PATCH AND REPAIR ALL OPENINGS CREATED THAT PENETRATE FIRE RATED WALLS, FLOORS AND CEILING USING UL APPROVED METHODS AND MATERIALS CONSISTENT WITH THE RATING OF THE SURFACE PENETRATED.
- 120V BRANCH CIRCUITING SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:  
0-100' = #12 AWG  
101'-150' = #10 AWG  
151'-250' = #8 AWG  
GROUND CONDUCTOR AND RACEWAYS SHALL BE INCREASED AS REQUIRED.
- ALL CONDUIT SHALL BE CONCEALED IN CMU AND/ OR FRAMED WALLS UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES AND EQUIPMENT WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS AND OCCUPANCY/VACANCY SENSORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.
- EXTERIOR LIGHT FIXTURES SHALL UTILIZE LIGHTING CONTROL TYPE 4. REFER TO "LIGHTING CONTROL REQUIREMENTS AND DESCRIPTIONS" SCHEDULE ON SHEET E302 FOR ADDITIONAL INFORMATION.
- "NL" SUBSCRIPT INDICATES LUMINAIRE IS UNSWITCHED FOR NIGHT LIGHT.

### PLAN NOTES:

- ALL LIGHT FIXTURES IN THIS SPACE ARE SURFACE MOUNTED TO THE UNDERSIDE OF THE MEZZANINE.
- LIGHTING OVERRIDE SWITCH FOR DRY FOOD STORAGE HIGHBAY LIGHT FIXTURES. REFER TO SHEET E102 FOR LOCATIONS OF HIGHBAY LIGHT FIXTURES.
- MOUNT LIGHT SWITCHES DIRECTLY BELOW GLASS WINDOW.
- PENDANT MOUNT 'S1' AND 'S1X' FIXTURES 10'-0" AFF IN THIS SPACE. COORDINATE LOCATION WITH EQUIPMENT IN THE SPACE.
- COORDINATE 'S1' FIXTURE MOUNTING LOCATIONS WITH IT EQUIPMENT IN THIS SPACE.
- AVOID MOUNTING 'E1' AND 'E1X' LIGHT FIXTURES BELOW STRUCTURAL ELEMENTS. COORDINATE WITH STRUCTURAL DRAWINGS. (TYP.)
- WALL MOUNT 'W'/'WX' LIGHT FIXTURE AT 12'-0" AFF.
- CIRCUIT CONTINUED ON SHEET E102.
- LIGHTING CONTROL PANEL 'LCP' LOCATED IN MEP ROOM. WIRE PHOTOCELL IN SERIES WITH LCP. PHOTOCELL LOCATED ON ROOF.
- ROUTE CIRCUIT THROUGH LIGHTING CONTROL PANEL 'LCP' LOCATED NEXT TO PANEL F3. REFER TO LCP SCHEDULE ON SHEET E302 FOR ADDITIONAL INFORMATION.
- LIGHTING OVERRIDE SWITCH FOR HIGHBAY AND UNDER MEZZANINE LIGHT FIXTURES. REFER TO SHEET E102 FOR LOCATIONS OF HIGHBAY LIGHT FIXTURES.
- MULLION MOUNT EXIT SIGN ABOVE DOOR AT THIS LOCATION.
- PENDANT MOUNT EXIT SIGN 15'-0" AFF.
- WALL MOUNT 'W'/'WX' LIGHT FIXTURE AT 10'-0" AFF.

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Landscaping #2006027139  
Surveying #2006027138

11827 W 112th St #200  
Overland Park, KS 66210  
913.317.5590 phone

Bob D. Campbell & Co.  
Structural Engineer

State Certificate of Authority # 000442  
4338 Bellevue Ave.  
Kansas City, MO 64111

816.531.4144 phone  
816.531.6572 fax

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State Certificate of Authority # EFC-000178  
25618 W 103rd St  
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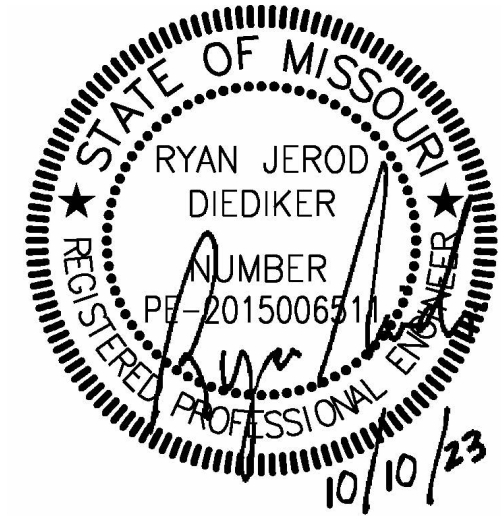
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engineers  
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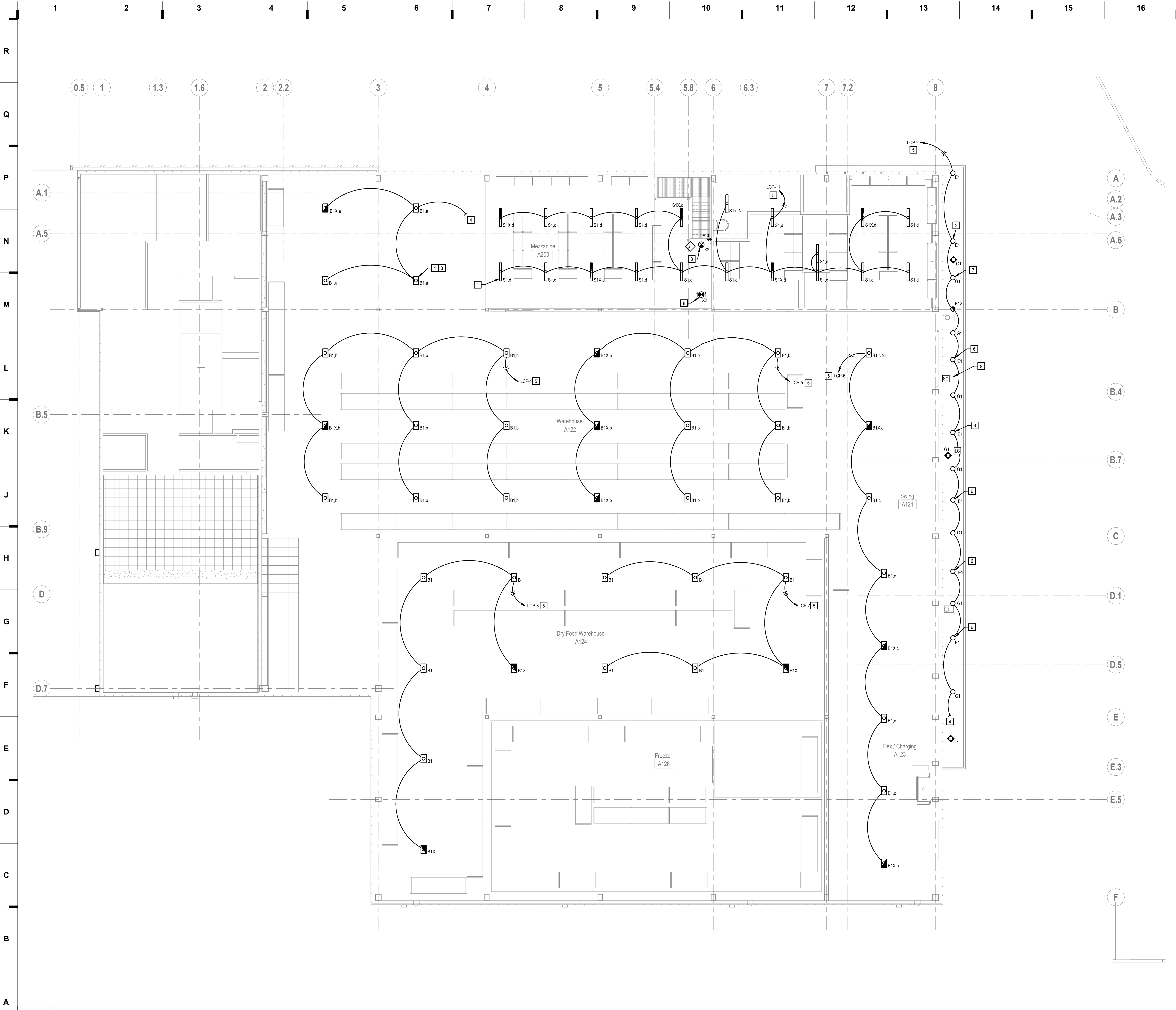
# E101

OVERALL LIGHTING PLAN - LEVEL 1

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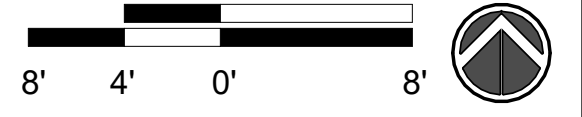


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**A1** Scale  
1/8" = 1'-0"

OVERALL LIGHTING - LEVEL 2



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## SHEET KEYNOTE LEGEND

- GENERAL NOTES:
1. REFER TO SHEET E101 FOR TYPICAL LIGHTING GENERAL NOTES APPLICABLE TO ENTIRE PROJECT.
- PLAN NOTES:
- 1 'B1', 'B1X', 'S1', AND 'S1X' TYPE LIGHT FIXTURES ON THIS SHEET SHALL BE PENDANT MOUNTED SUCH THAT THE BOTTOM OF THE FIXTURE IS FLUSH WITH THE ADJACENT BAR JOISTS. (TYP.)
  - 2 AVOID MOUNTING 'E1' AND 'E1X' LIGHT FIXTURES BELOW STRUCTURAL ELEMENTS. COORDINATE WITH STRUCTURAL DRAWINGS. (TYP.)
  - 3 REFER TO SHEET E101 FOR THE CONTROLS ASSOCIATED WITH THE 'B1' AND 'B1X' LIGHT FIXTURES, AND S1 AND S1X LIGHT FIXTURES UNDER THE MEZZANINE.
  - 4 CIRCUIT CONTINUED ON SHEET E101.
  - 5 ROUTE CIRCUIT THROUGH LIGHTING CONTROL PANEL 'LCP' LOCATED NEXT TO THE PANEL P3. REFER TO LCP SCHEDULE ON SHEET E302 FOR ADDITIONAL INFORMATION.
  - 6 MOUNT 'E1' LIGHT FIXTURE AS CLOSE TO THE OUTER EDGE OF CANOPY AS POSSIBLE.
  - 7 'G1' TYPE FIXTURE TO UTILIZE LIGHTING CONTROL TYPE 4, BUT ONLY TURN ON UPON ACTIVATION OF MOTION SENSOR. UPON ACTIVATION, THE 'G1' TYPE FIXTURES SHALL FLASH RED UNTIL THERE IS NO MOTION DETECTED FOR 15 MINUTES, THEN TURN OFF.
  - 8 PENDANT MOUNT EXIT SIGN 10'-0" AFF, UNO.
  - 9 SITE CONTROLLER FOR 'G1' AND 'G2' TYPE LIGHT FIXTURES. INSTALL WITHIN LINE OF SIGHT OF AT LEAST (1) 'G1' OR 'G2' FIXTURE. COORDINATE EXACT LOCATION WITH ARCHITECT. PROVIDE A DATA CONNECTION TO THIS DEVICE PER MANUFACTURER REQUIREMENTS.

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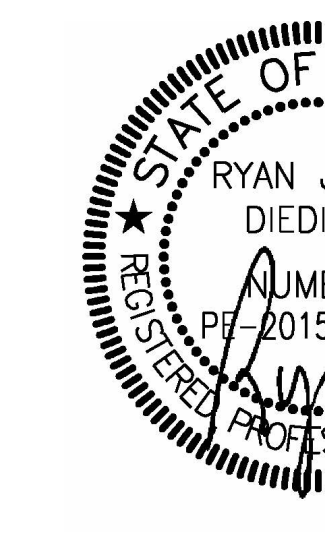
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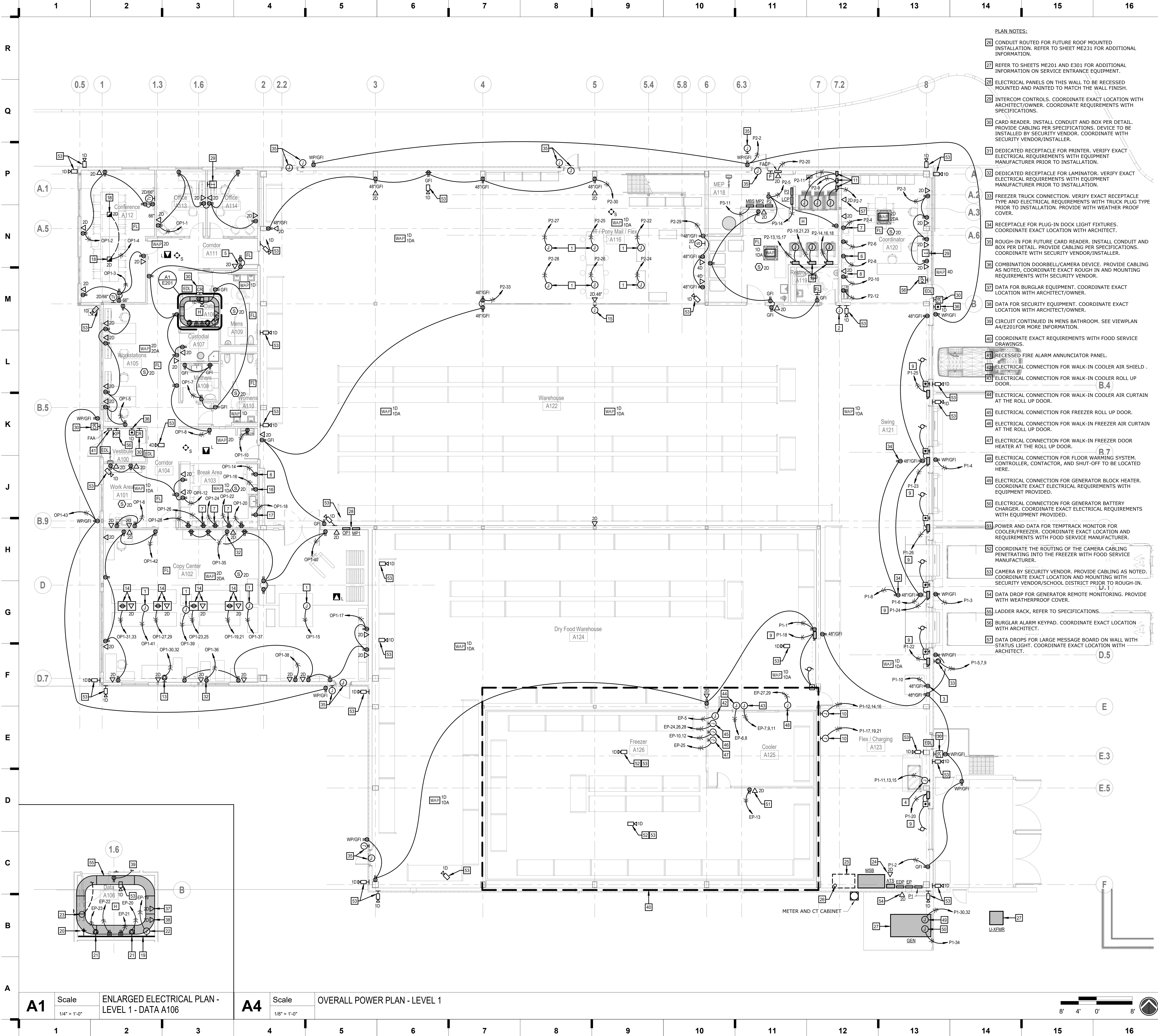
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engineers  
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phone 913.345.2127 fax 913.345.0617  
project number 2314705

# E102

OVERALL LIGHTING PLAN - MEZZ LEVEL





PLAN NOTES:

- CONDUIT ROUTED FOR FUTURE ROOF MOUNTED INSTALLATION. REFER TO SHEET ME231 FOR ADDITIONAL INFORMATION.
- REFER TO SHEETS ME201 AND E301 FOR ADDITIONAL INFORMATION REGARDING ALL MECHANICAL/PLUMBING EQUIPMENT.
- ELECTRICAL PANELS ON THIS WALL TO BE RECESSED MOUNTED AND PAINTED TO MATCH THE WALL FINISH.
- INTERCOM CONTROLS. COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER. COORDINATE REQUIREMENTS WITH SPECIFICATIONS.
- CARD READER. INSTALL CONDUIT AND BOX PER DETAIL. PROVIDE CABLING PER SPECIFICATIONS. DEVICE TO BE INSTALLED BY SECURITY VENDOR. COORDINATE WITH SECURITY VENDOR/INSTALLER.
- DEDICATED RECEPTACLE FOR PRINTER. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.
- DEDICATED RECEPTACLE FOR LAMINATOR. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.
- FREEZER TRUCK CONNECTION. VERIFY EXACT RECEPTACLE TYPE AND ELECTRICAL REQUIREMENTS WITH TRUCK PLUG TYPE PRIOR TO INSTALLATION. PROVIDE WITH WEATHER PROOF COVER.
- RECEPTACLE FOR PLUG-IN DOCK LIGHT FIXTURES. COORDINATE EXACT LOCATION WITH ARCHITECT.
- ROUGH-IN FOR FUTURE CARD READER. INSTALL CONDUIT AND BOX PER DETAIL. PROVIDE CABLING PER SPECIFICATIONS. COORDINATE WITH SECURITY VENDOR/INSTALLER.
- COMBINATION DOORBELL/CAMERA DEVICE. PROVIDE CABLING AS NOTED, COORDINATE EXACT ROUGH IN AND MOUNTING REQUIREMENTS WITH SECURITY VENDOR.
- DATA FOR BURGLAR EQUIPMENT. COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER.
- DATA FOR SECURITY EQUIPMENT. COORDINATE EXACT LOCATION WITH ARCHITECT/OWNER.
- CIRCUIT CONTINUED IN MENS BATHROOM. SEE VIEWPLAN A4/E201 FOR MORE INFORMATION.
- COORDINATE EXACT REQUIREMENTS WITH FOOD SERVICE DRAWINGS.
- RECESSED FIRE ALARM ANNUNCIATOR PANEL.
- ELECTRICAL CONNECTION FOR WALK-IN COOLER AIR SHIELD.
- ELECTRICAL CONNECTION FOR WALK-IN COOLER ROLL UP DOOR.
- ELECTRICAL CONNECTION FOR FREEZER ROLL UP DOOR.
- ELECTRICAL CONNECTION FOR WALK-IN FREEZER AIR CURTAIN AT THE ROLL UP DOOR.
- ELECTRICAL CONNECTION FOR WALK-IN FREEZER DOOR HEATER AT THE ROLL UP DOOR.
- ELECTRICAL CONNECTION FOR FLOOR WARMING SYSTEM. CONTROLLER, CONTACTOR, AND SHUT-OFF TO BE LOCATED HERE.
- ELECTRICAL CONNECTION FOR GENERATOR BLOCK HEATER. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT PROVIDED.
- ELECTRICAL CONNECTION FOR GENERATOR BATTERY CHARGER. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT PROVIDED.
- POWER AND DATA FOR TEMPRACK MONITOR FOR COOLER/FREEZER. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH FOOD SERVICE MANUFACTURER.
- COORDINATE THE ROUTING OF THE CAMERA CABLING PENETRATING INTO THE FREEZER WITH FOOD SERVICE MANUFACTURER.
- CAMERA BY SECURITY VENDOR. PROVIDE CABLING AS NOTED. COORDINATE EXACT LOCATION AND MOUNTING WITH SECURITY VENDOR/SCHOOL DISTRICT PRIOR TO ROUGH-IN.
- DATA DROP FOR GENERATOR REMOTE MONITORING. PROVIDE WITH WEATHERPROOF COVER.
- LADDER RACK, REFER TO SPECIFICATIONS.
- BURGLAR ALARM KEYPAD. COORDINATE EXACT LOCATION WITH ARCHITECT.
- DATA DROPS FOR LARGE MESSAGE BOARD ON WALL WITH STATUS LIGHT. COORDINATE EXACT LOCATION WITH ARCHITECT.

SHEET KEYNOTE LEGEND

GENERAL NOTES:

- REFER TO M/E SCHEDULES AND DETAILS FOR CIRCUITING INFORMATION REGARDING ALL MECHANICAL/PLUMBING EQUIPMENT.
- REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR MOUNTING LOCATIONS OF ALL WALL MOUNTED ELECTRICAL DEVICES. DEVICES NOT REFERENCED ON THE ARCHITECTURAL DRAWINGS ARE TYPICAL, UNLESS SPECIFICALLY NOTED OTHERWISE ON THIS SHEET. REFER TO THE TYPICAL MOUNTING HEIGHT DETAIL ON SHEET ME401.
- SEAL ALL PENETRATIONS AS REQUIRED TO MAINTAIN ALL RATINGS FOR ALL FIRE RESISTANCE/RATED CONSTRUCTION. REFER TO ARCHITECTURAL CODE PLANS FOR RATED WALL AND FLOOR LOCATIONS.
- WHERE ANY DEVICE JUNCTION BOXES ARE RECESSED WITHIN OPPOSITE SIDES OF A FIRE RATED WALL AND ARE WITHIN 24" OF EACH OTHER MEASURED HORIZONTALLY, FURNISH AND INSTALL A MOLDABLE FIRE STOP PUTTY PACK AROUND EACH JUNCTION BOX TO MAINTAIN FIRE RATING OF WALL.
- 120V BRANCH CIRCUITING SHALL BE AS FOLLOWS: (UNLESS SPECIFICALLY NOTED OTHERWISE)  
0-100' = #12 AWG.  
101-150' = #10 AWG.  
151-250' = #8 AWG.  
GROUND CONDUCTOR AND RACEWAYS SHALL BE INCREASED AS REQUIRED.
- CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES AND EQUIPMENT WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS AND OCCUPANCY/VACANCY SENSORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.

PLAN NOTES:

- CORD REEL WITH DUPLEX RECEPTACLE. COORDINATE EXACT LOCATION WITH ARCHITECT. REFER TO DETAIL ON SHEET ME401 FOR ADDITIONAL INFORMATION.
- BANK OF (5) GARAGE DOOR CONTROLS. COORDINATE EXACT LOCATION WITH ARCHITECT. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH DOOR SUPPLIER.
- ELECTRICAL CONNECTION FOR PALLET WRAPPER. COORDINATE EXACT LOCATION WITH PALLET WRAPPER LOCATION PRIOR TO ROUGH-IN. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.
- ELECTRICAL CONNECTION FOR CARDBOARD COMPACTOR. CIRCUIT WITH (4)#8, (1)#10G, IN 3/4" C. COORDINATE EXACT LOCATION WITH CARDBOARD COMPACTOR LOCATION PRIOR TO ROUGH-IN. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.
- (1)POWER AND (1)DATA OUTLET FOR CLOCK-IN STATION. COORDINATE EXACT LOCATION WITH ARCHITECT.
- DEDICATED RECEPTACLE FOR REFRIGERATOR. REFER TO ARCHITECTURAL PLAN/CASEWORK ELEVATIONS FOR EXACT LOCATIONS.
- DEDICATED RECEPTACLE FOR MICROWAVE. REFER TO ARCHITECTURAL PLAN/CASEWORK ELEVATIONS FOR EXACT LOCATIONS.
- DEDICATED RECEPTACLE FOR VENDING MACHINE. REFER TO ARCHITECTURAL PLAN/CASEWORK ELEVATIONS FOR EXACT LOCATIONS.
- PROVIDE JUNCTION BOX AND CONDUIT FOR OVERHEAD DOOR CONTROLLER. CONTROLLER AND DISCONNECT PROVIDED BY DOOR SUPPLIER. INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH DOOR SUPPLIER.
- ELECTRICAL CONNECTION FOR FORKLIFT CHARGER. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.
- 30A/1P/NEMA 3 NON-FUSED DISCONNECT FOR POWER TO GAS DRYER. CIRCUIT WITH (2)#12, (1)#12G, 3/4" C. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.
- 30A/3P/NEMA 3 NON-FUSED DISCONNECT, FOR POWER TO WASHER. CIRCUIT WITH (4)#10, (1)#10G, 3/4" C. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.
- L6-30R POWER RECEPTACLE FOR COPY CENTER PRINTER. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.
- CEILING MOUNTED L6-30R POWER RECEPTACLE AND DATA OUTLET FOR COPY CENTER EQUIPMENT. COORDINATE EXACT LOCATION WITH ARCHITECT. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.
- MEZZANINE'S ELECTRIC GATE CONTROLS. CONNECT TO ELECTRIC GATE PER GATE PROVIDER DIRECTIONS.
- DEDICATED RECEPTACLE FOR ICE MAKER. REFER TO ARCHITECTURAL PLAN/CASEWORK ELEVATIONS FOR EXACT LOCATIONS. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.
- DEDICATED RECEPTACLE FOR DISHWASHER. REFER TO ARCHITECTURAL PLAN/CASEWORK ELEVATIONS FOR EXACT LOCATIONS. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.
- PROVIDE (2) GANG 4" CIRCULAR LEGRAND EVOLUTION SERIES FLOORBOX (OR APPROVED EQUAL) WITH (1) GANG FOR POWER RECEPTACLE AND (1) GANG FOR (2) DATA JACKS. PROVIDE 1-1/4" CONDUIT FOR LOW VOLTAGE, STUBBED TO ABOVE ACCESSIBLE CEILING. COORDINATE EXACT FLOORBOX LOCATION AND FINISH WITH ARCHITECT PRIOR TO INSTALLATION.
- 4'x8', 3/4" A-C GRADE, FIRE-RETARDANT - TREATED PLYWOOD WITH THE (A) SIDE OF THE PLYWOOD INSTALLED FACING OUT. PRIOR TO EQUIPMENT INSTALLATION, PLYWOOD SHALL BE PAINTED WITH TWO COATS OF WHITE, FIRE RETARDANT LOW-GLOSS PAINT.
- 12" LONG x 2" WIDE x 1/4" THICK GROUNDING BUSBAR WITH PRE-DRILLED HOLES. EXTEND (1) #3/0 COPPER CONDUCTOR, IN RACEWAY, BETWEEN EACH BUSBAR IN BUILDING AND TO BUILDING SERVICE GROUND.
- NEMA L5-30R RECEPTACLES FOR DATA RACKS. CIRCUIT WITH (2)#10, #10G, IN 3/4" C. COORDINATE FINAL REQUIREMENTS WITH LOW VOLTAGE VENDOR.
- ELECTRICAL CONNECTION TO SECURITY IDF CABINET BY OTHERS.
- TELECOM MPOE. COORDINATE EXACT LOCATION WITH LOW VOLTAGE CONTRACTOR. REFER TO SITE PLAN FOR MORE INFORMATION.
- DATA DROP FOR ATS REMOTE MONITORING.
- AREA RESERVED FOR FUTURE PHOTOVOLTAIC EQUIPMENT.

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1828 Walnut Street Suite 922  
Kansas City, MO 64108  
816.442.7700  
115 Wilcox Street Suite 210  
Castle Rock, CO 80104  
720.949.1589  
HOLLISANDMILLER.COM

Hollis + Miller Architects  
Missouri State Certificate of Authority  
Architecture # 0000191  
Structural # 200001333

MKEC Engineering, Inc.  
Civil Engineer  
State Certificate of Authority  
Engineering #2001009364  
Landscaping #2000027139  
Surveying #2000027139  
11827 W 112th St #200  
Overland Park, KS 66210  
913.317.5590 phone  
913.317.5591 fax

Bob D. Campbell & Co.  
Structural Engineer  
State Certificate of Authority # 000442  
4338 Bellevue Ave.  
Kansas City, MO 64111  
816.531.4144 phone  
816.531.8572 fax

Smith & Boucher Engineers  
Mech/Elect Engineer  
State Certificate of Authority # EFC-000178  
25618 W 103rd St  
Olathe, KS 66061  
913.345.2127 phone  
913.345.2127 fax

Fellers Food Service Equipment & Design  
Food Service Consultant  
2140 W Grand St Suite 8  
Springfield, MO 65802  
417.862.0812 phone

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1138 Southview Dr, Liberty, MO 64068

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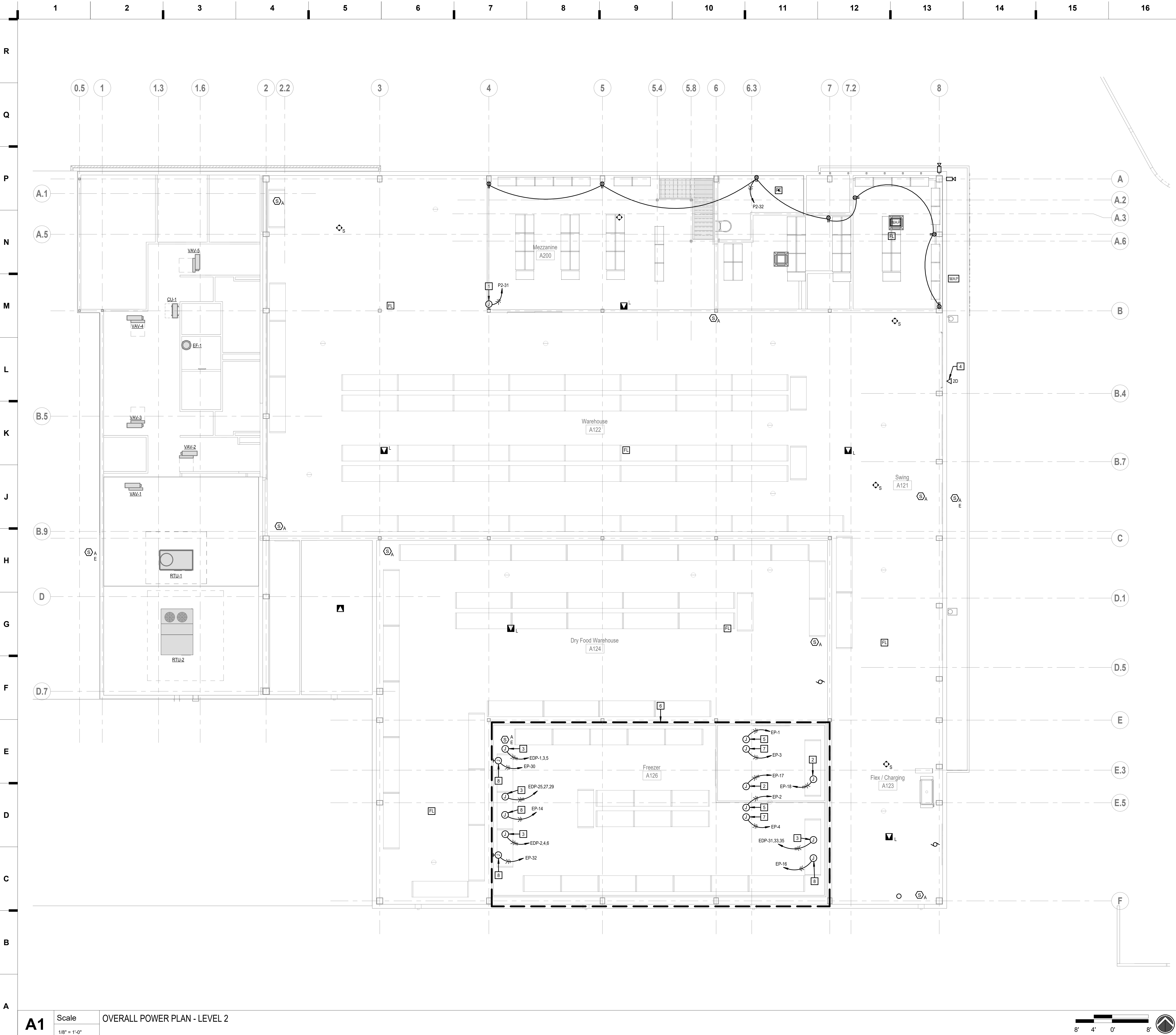


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DATE: 10.10.2023

smith & boucher  
engineers  
25618 west 103rd st. olathe, ks 66061  
phone 913.345.2127 fax 913.345.0617  
project number 2314705

E201





SHEET KEYNOTE LEGEND

GENERAL NOTES:

1. REFER TO SHEET E101 FOR TYPICAL POWER GENERAL NOTES APPLICABLE TO ENTIRE PROJECT.

PLAN NOTES:

- 1 ELECTRICAL CONNECTION FOR ELECTRIC GATE. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH GATE SUPPLIER. REFER TO SHEET E201 FOR LOCATION OF GATE CONTROLS.
- 2 ELECTRICAL CONNECTION FOR COOLER EVAPORATOR COIL FAN. CIRCUIT WITH (2)#12, (1)#10G, IN 3/4" C. VERIFY ALL ELECTRICAL REQUIREMENTS WITH EQUIPMENT PROVIDED PRIOR TO INSTALLATION. COORDINATE EXACT LOCATION WITH ALL TRADE PARTNERS.
- 3 ELECTRICAL CONNECTION FOR FREEZER EVAPORATOR COIL. CIRCUIT WITH (4)#10, (1)#10G, IN 3/4" C. VERIFY ALL ELECTRICAL REQUIREMENTS WITH EQUIPMENT PROVIDED PRIOR TO INSTALLATION. COORDINATE EXACT LOCATION WITH ALL TRADE PARTNERS.
- 4 PROVIDE DUPLEX DATA DROP IN A WEATHERPROOF ENCLOSURE FOR SITE CONTROLLER DEVICE. REFER TO SHEET E102 FOR EXACT LOCATION.
- 5 ELECTRICAL CONNECTION FOR DOOR LIGHTS, HEATED VENTS, AND THRESHOLDS.
- 6 COORDINATE EXACT REQUIREMENTS WITH FOOD SERVICE DRAWINGS.
- 7 ELECTRICAL CONNECTION FOR LIGHT FIXTURES IN THIS SPACE. INTERCONNECT WITH THE MOTION SENSORS IN THE SPACE.
- 8 ELECTRICAL CONNECTION FOR FREEZER COIL HEAT TAPE.

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1828 Walnut Street Suite 922  
Kansas City, MO 64108  
1.816.442.7700

115 Wilcox Street Suite 210  
Castle Rock, CO 80104  
1.720.949.1589

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Holla + Miller Architects  
Missouri State Certificate of Authority  
Architecture # 0000101  
Structural # 200601333

MKEC Engineering, Inc.  
Civil Engineer  
State Certificate of Authority  
Engineering #2001009364  
Landscaping #2006027139  
Surveying #2006027138  
11827 W 112th St #200  
Overland Park, KS 66210  
913.317.5590 phone

Bob D. Campbell & Co.  
Structural Engineer  
State Certificate of Authority # 000442  
4338 Bellevue Ave.  
Kansas City, MO 64111  
816.531.4144 phone  
816.531.8572 fax

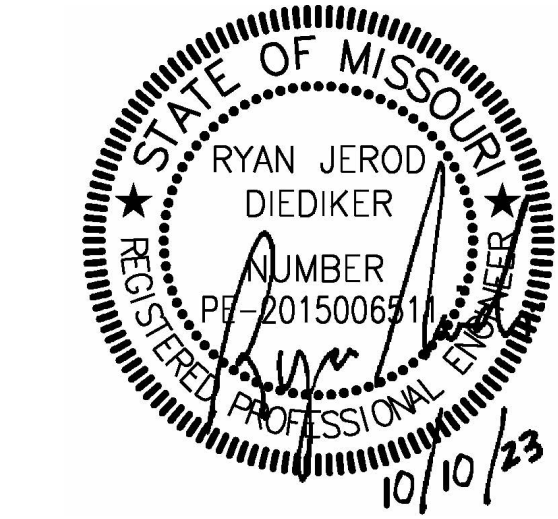
Smith & Boucher Engineers  
Mech/Elect Engineer  
State Certificate of Authority # EFC-000178  
25618 W 103rd St  
Olathe, KS 66061  
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Fellers Food Service Equipment & Design  
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smith & boucher  
engineers  
25618 west 103rd St. olathe, ks 66061  
phone 913.345.2127 fax 913.345.0617  
project number 2314705

E202

OVERALL POWER PLAN - MEZZ LEVEL

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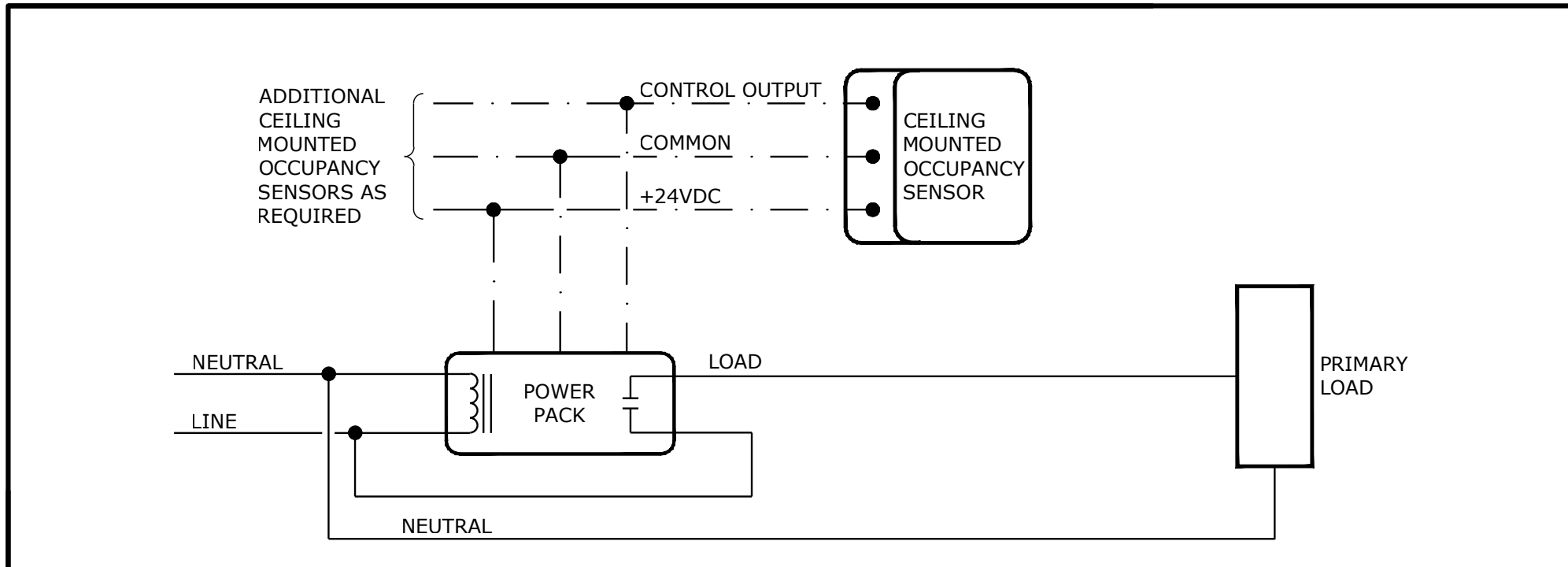
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LIGHTING CONTROL DEVICE SCHEDULE					
SYMBOL	DESCRIPTION	DETECTION TYPE	SETTINGS (TYPICAL)	MANUFACTURER/MODEL	NOTES
\$ <sub>VS</sub>	WALL MOUNTED SWITCH/VACANCY SENSOR LINE VOLTAGE - SINGLE RELAY	DUAL TECHNOLOGY	ON: MANUAL OFF: 15 MINUTE DELAY	WATTSTOPPER LMDW-101-ENG1	1,2
\$ <sub>OS</sub>	WALL MOUNTED SWITCH/OCCUPANCY SENSOR LINE VOLTAGE - SINGLE RELAY	DUAL TECHNOLOGY	ON: AUTOMATIC OFF: 15 MINUTE DELAY	WATTSTOPPER LMDW-101-ENG1	1,2
\$ <sub>VD</sub>	WALL MOUNTED SWITCH/VACANCY SENSOR LOW VOLTAGE - SINGLE RELAY - WITH 0-10V DIMMING	DUAL TECHNOLOGY	ON: MANUAL OFF: 15 MINUTE DELAY	WATTSTOPPER LMDW-102-ENG2	1,2
\$ <sub>OS#</sub>	ON/OFF SWITCH # INDICATES QUANTITY OF ZONES CONTROLLED AT EACH LOCATION	-	-	WATTSTOPPER LMSW-101-ENG1	1
\$ <sub>D#</sub>	WALL MOUNTED ON/OFF DIMMER SWITCH # INDICATES QUANTITY OF ZONES CONTROLLED AT EACH LOCATION	-	-	WATTSTOPPER LMDM-101-ENG1	1,2
\$ <sub>M</sub>	WALL MOUNTED OVERRIDE SWITCH LOW VOLTAGE - SINGLE RELAY	-	-	WATTSTOPPER LMSW-101	1,2
\$ <sub>OC</sub>	CEILING MOUNTED LIGHTING SYSTEM OCCUPANCY SENSOR	DUAL TECHNOLOGY	-	WATTSTOPPER LMDC-100	1,3,4
\$ <sub>G1</sub>	WIRELESS OCCUPANCY SENSOR	PASSIVE INFRARED	ON: AUTOMATIC OFF: 15 MINUTE DELAY	SYNAPSE WSN-DPM	1
\$ <sub>LC</sub>	WIRELESS LIGHTING CONTROLLER	-	-	SYNAPSE DIM10-220	1
\$ <sub>SC</sub>	WIRELESS SITE CONTROLLER WITH NEMA 4X ENCLOSURE	-	-	SYNAPSE CBSSW-450-002	1

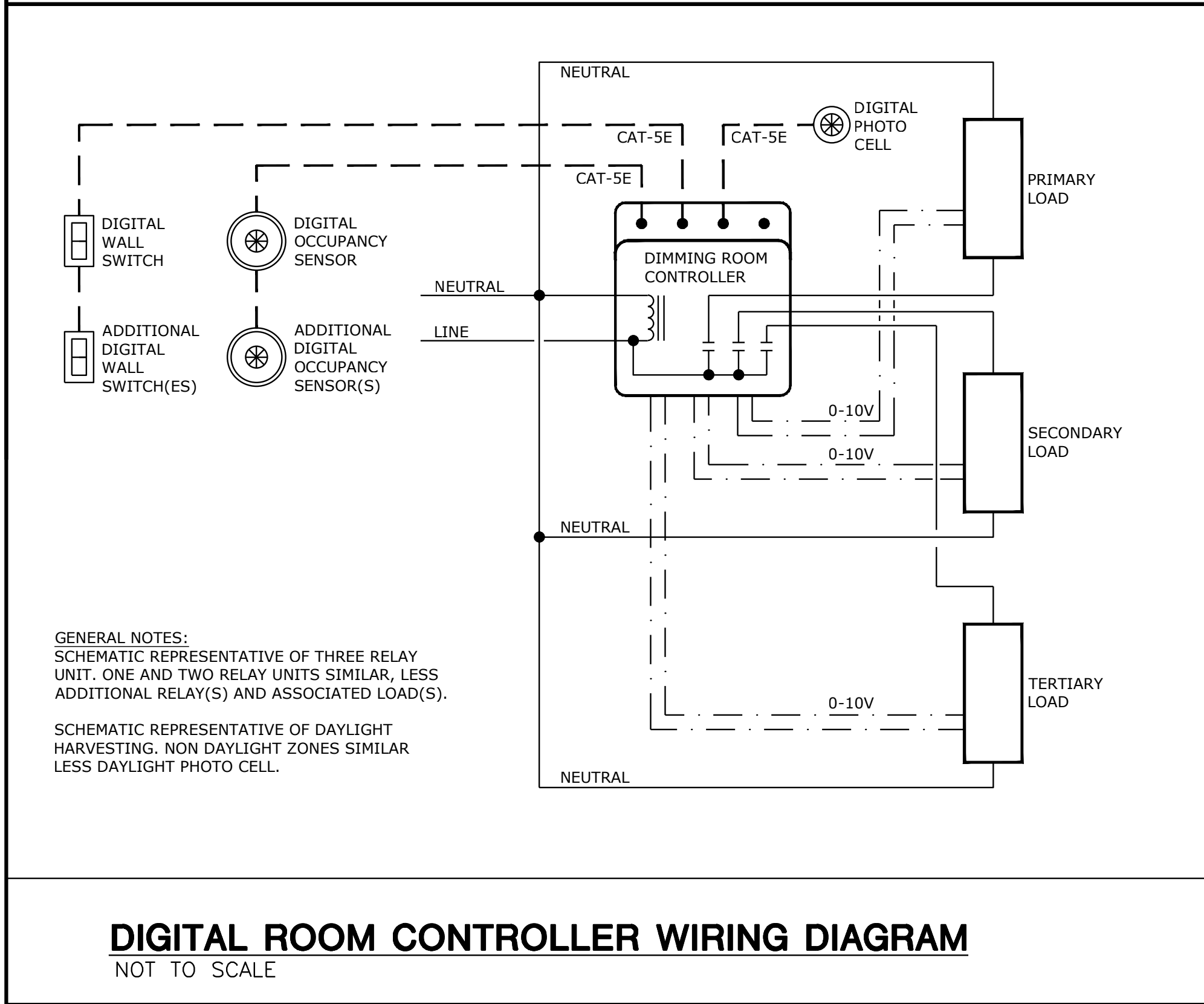
NOTE 1: THE MANUFACTURERS AND MODELS LISTED ARE THE BASIS OF DESIGN, ALL PRODUCT SUBSTITUTIONS SUBMITTED MUST BE APPROVED AS EQUAL. REFER TO DRAWINGS FOR QUANTITIES.  
NOTE 2: ALL WALL MOUNTED LIGHTING CONTROLS MUST HAVE MATCHING FINISHES TO THOSE LISTED IN SPECIFICATION SECTION 262726 - WIRING DEVICES.  
NOTE 3: OCCUPANCY SENSOR LOCATIONS SHOWN ON FLOOR PLANS ARE GENERIC, CONTRACTOR TO MODIFY LOCATIONS AS REQUIRED BASED COVERAGE CAPABILITIES OF SUBMITTED PRODUCTS.  
NOTE 4: MODIFY LOCATIONS OF CEILING MOUNTED OCCUPANCY SENSORS AS REQUIRED SO THAT NO OCCUPANCY SENSOR IS WITHIN 4'-0" OF AN HVAC SUPPLY DIFFUSER.

LIGHTING CONTROL REQUIREMENTS & DESCRIPTIONS - PER SPACE TYPE	
TYPE	LIGHTING CONTROL REQUIREMENTS FOR SPACE
1	CONTROL METHOD: OCCUPANCY ON - OCCUPANCY OFF: POWER PACKS/CONTROLLERS: -LOCAL DEVICES IN ACCESSIBLE LOCATIONS AS REQUIRED TO ACHIEVE CONTROL METHOD INDICATED. OCCUPANCY SENSOR(S): -TYPE AND MINIMUM QUANTITY NOTED ON PLANS, MODELS/SETTINGS AS NEEDED TO PROVIDE SMALL MOTION COVERAGE IN ENTIRE ROOM. -SET TIME DELAYS FOR SHUT-OFF AT 15 MINUTES.
2	CONTROL METHOD: MANUAL ON - OCCUPANCY OFF - MANUAL ON/OFF CONTROLS: POWER PACKS/CONTROLLERS: -LOCAL DEVICES IN ACCESSIBLE LOCATIONS AS REQUIRED TO ACHIEVE CONTROL METHOD INDICATED. OCCUPANCY SENSOR(S): -TYPE, LOCATION(S), AND MINIMUM QUANTITY NOTED ON PLANS. MODELS/SETTINGS AS NEEDED TO PROVIDE SMALL MOTION COVERAGE IN ENTIRE ROOM. -SET TIME DELAYS FOR SHUT-OFF AT 15 MINUTES. ON/OFF ZONE SWITCHES: -LOCATION(S) AND QUANTITIES SHOWN ON FLOOR PLANS. -ZONE QUANTITIES FOR EACH SWITCH LOCATION DENOTED ON FLOOR PLANS. -ZONE DESIGNATIONS ARE DENOTED FOR EACH SWITCH WHEN DIFFERENT ZONES ARE CONTROLLED FROM DIFFERENT SWITCHES WITHIN THE SAME ROOM. -ZONES ARE DENOTED ON EACH ASSOCIATED LIGHT FIXTURE WHEN MULTIPLE ZONES ARE PRESENT WITHIN ROOM, USING LOWER CASE LETTERS AS FOLLOWS: "a", "b", "c", ETC. -ON AND OFF CONTROL FOR EACH ZONE, WITH EITHER SEPARATE BUTTONS OR SINGLE BUTTON ROCKER STYLE. NOT TOGGLE STYLE.
3	CONTROL METHOD: MANUAL ON - OCCUPANCY OFF - MANUAL OVERRIDE DIMMING CONTROLS: POWER PACKS/CONTROLLERS: -LOCAL DEVICES IN ACCESSIBLE LOCATIONS AS REQUIRED TO ACHIEVE CONTROL METHOD INDICATED. OCCUPANCY SENSOR(S): -TYPE, LOCATION, AND MINIMUM QUANTITY NOTED ON PLANS. MODELS/SETTINGS AS NEEDED TO PROVIDE SMALL MOTION COVERAGE IN ENTIRE ROOM. -SET TIME DELAYS FOR SHUT-OFF AT 15 MINUTES. DIMMABLE ZONE SWITCHES: -LOCATION(S) AND QUANTITIES SHOWN ON FLOOR PLANS. -ZONE QUANTITIES FOR EACH SWITCH LOCATION DENOTED ON FLOOR PLANS. -ZONE DESIGNATIONS ARE DENOTED FOR EACH DIMMER LOCATION WHEN DIFFERENT ZONES ARE CONTROLLED FROM DIFFERENT DIMMERS WITHIN THE SAME ROOM. -ZONES ARE DENOTED ON EACH ASSOCIATED LIGHT FIXTURE WHEN MULTIPLE ZONES ARE PRESENT WITHIN ROOM, USING LOWER CASE LETTERS AS FOLLOWS: "a", "b", "c", ETC. -ON AND OFF CONTROL FOR EACH ZONE, WITH EITHER SEPARATE BUTTONS OR SINGLE BUTTON ROCKER STYLE. NOT TOGGLE STYLE.
4	CONTROL METHOD: PHOTOCELL/TIME CLOCK ON - PHOTOCELL/TIME CLOCK OFF - AUTOMATIC DIMMING TO 50% (FOR POLE LIGHT FIXTURES): POWER PACKS/CONTROLLERS: -LOCAL DEVICES IN ACCESSIBLE LOCATIONS AS REQUIRED TO ACHIEVE CONTROL METHOD INDICATED.
5	CONTROL METHOD: TIME CLOCK ON/MANUAL ON - TIME CLOCK OFF - MANUAL ON/OFF CONTROLS: POWER PACKS/CONTROLLERS: -LOCAL DEVICES IN ACCESSIBLE LOCATIONS AS REQUIRED TO ACHIEVE CONTROL METHOD INDICATED. ON/OFF AND DIMMABLE ZONE SWITCHES: -LOCATION(S) AND QUANTITIES SHOWN ON FLOOR PLANS. REFER TO FLOOR PLANS FOR SWITCH TYPE USED IN EACH SPACE. -ZONE QUANTITIES FOR EACH SWITCH LOCATION DENOTED ON FLOOR PLANS. -ZONE DESIGNATIONS ARE DENOTED FOR EACH SWITCH LOCATION WHEN DIFFERENT ZONES ARE CONTROLLED FROM DIFFERENT SWITCHES WITHIN THE SAME ROOM. -ZONES ARE DENOTED ON EACH ASSOCIATED LIGHT FIXTURE WHEN MULTIPLE ZONES ARE PRESENT WITHIN ROOM, USING LOWER CASE LETTERS AS FOLLOWS: "a", "b", "c", ETC. -ON AND OFF CONTROL FOR EACH ZONE, WITH EITHER SEPARATE BUTTONS OR SINGLE BUTTON ROCKER STYLE. NOT TOGGLE STYLE. -AFTER BUSINESS HOURS, LIGHTS TURN OFF. SWITCH FOR EACH ZONE ALLOWS LIGHTS TO TURN ON FOR UP TO 2 HOURS, THEN AUTOMATICALLY TURN OFF.
6	CONTROL METHOD: OCCUPANCY ON - OCCUPANCY OFF-MANUAL OVERRIDE DIMMING CONTROLS: POWER PACKS/CONTROLLERS: -LOCAL DEVICES IN ACCESSIBLE LOCATIONS AS REQUIRED TO ACHIEVE CONTROL METHOD INDICATED. OCCUPANCY SENSOR(S): -TYPE, LOCATION, AND MINIMUM QUANTITY NOTED ON PLANS. MODELS/SETTINGS AS NEEDED TO PROVIDE SMALL MOTION COVERAGE IN ENTIRE ROOM. -SET TIME DELAYS FOR SHUT-OFF AT 15 MINUTES. DIMMABLE ZONE SWITCHES: -LOCATION(S) AND QUANTITIES SHOWN ON FLOOR PLANS. -ZONE QUANTITIES FOR EACH SWITCH LOCATION DENOTED ON FLOOR PLANS. -ZONE DESIGNATIONS ARE DENOTED FOR EACH DIMMER LOCATION WHEN DIFFERENT ZONES ARE CONTROLLED FROM DIFFERENT DIMMERS WITHIN THE SAME ROOM. -ZONES ARE DENOTED ON EACH ASSOCIATED LIGHT FIXTURE WHEN MULTIPLE ZONES ARE PRESENT WITHIN ROOM, USING LOWER CASE LETTERS AS FOLLOWS: "a", "b", "c", ETC. -ON AND OFF CONTROL FOR EACH ZONE, WITH EITHER SEPARATE BUTTONS OR SINGLE BUTTON ROCKER STYLE. NOT TOGGLE STYLE. -RAISE AND LOWER CONTROL FOR EACH ZONE, WITH EITHER SEPARATE BUTTONS OR SINGLE BUTTON ROCKER STYLE. NOT SLIDER STYLE.

GENERAL NOTES:  
NOTE 1: WHERE LIGHTS ARE TIME CLOCK CONTROLLED, REFER TO LIGHTING CONTROL PANEL SCHEDULE "LCP" FOR ADDITIONAL INFORMATION.  
NOTE 2: CONTRACTOR MUST INCLUDE SHOP DRAWINGS WITH LIGHTING CONTROLS SUBMITTAL SHOWING WIRING SCHEMATICS/DIAGRAMS OVERLAYED ON FLOOR PLANS FOR EACH ROOM.  
NOTE 3: ALL WALL MOUNTED LIGHTING CONTROLS MUST HAVE MATCHING FINISHES TO THOSE LISTED IN SPECIFICATION SECTION 262726 - WIRING DEVICES.  
NOTE 4: PROVIDE A DIGITAL LIGHTING CONTROL SYSTEM FROM A MANUFACTURER LISTED IN SPECIFICATION SECTION 260923 - LIGHTING CONTROL DEVICES. WIRELESS SYSTEMS ARE NOT PERMITTED.  
NOTE 5: CONTRACTOR TO MODIFY OCCUPANCY SENSOR LOCATIONS, AND/OR INCREASE QUANTITIES, AS REQUIRED BASED ON COVERAGE CAPABILITIES OF SUBMITTED PRODUCTS.  
NOTE 6: CONTRACTOR MUST COORDINATE WITH LIGHT FIXTURE SCHEDULE, AND MOST IMPORTANTLY THE LIGHT FIXTURE SUBMITTAL, TO VERIFY DIMMING TYPE NEEDED FOR EACH RELAY/CONTROLLER.  
NOTE 7: CONTRACTOR TO MODIFY PHOTOCELL LOCATIONS AS REQUIRED BASED ON SUBMITTED PRODUCTS.  
NOTE 8: "BMS" = BUILDING MANAGEMENT SYSTEM.



LOW VOLTAGE OCCUPANCY SENSOR WIRING DIAGRAM  
WITH AUTOMATIC ON OPERATION  
NOT TO SCALE



DIGITAL ROOM CONTROLLER WIRING DIAGRAM  
NOT TO SCALE

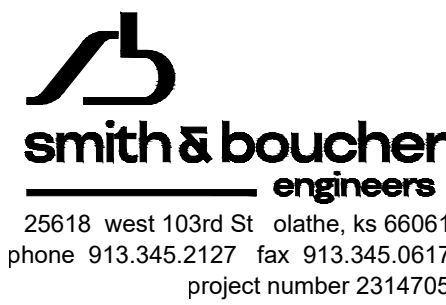
LIGHT FIXTURE SCHEDULE						
TYPE	DESCRIPTION	MOUNTING	SOURCE	VOLTS	MANUFACTURER	V-A
A1	2x4 LED FLAT PANEL WITH FIELD SELECTABLE LUMEN OUTPUT AND COLOR TEMPERATURE. 0-10V DIMMING. (X) = PROVIDE WITH EMERGENCY BATTERY.	RECESSED	LED 6,000 LUMENS 3500K 80 CRI	120	LITHONIA CPX WILLIAMS SERIES BP GE CURRENT LPL SIGNIFY FLUX PANEL OR APPROVED EQUAL	60
A2	SAME AS A1, BUT WITH DIFFERENT LUMEN OUTPUT. (X) = PROVIDE WITH EMERGENCY BATTERY.	RECESSED	LED 4,000 LUMENS 3500K 80 CRI	120	SAME AS A1.	40
A2X	(X) = PROVIDE WITH EMERGENCY BATTERY.	RECESSED	LED 4,000 LUMENS 3500K 80 CRI	120	SAME AS A1.	40
B1	HIGH BAY LED, 15" WIDE BY 23" LONG, ACRYLIC SEMI-DIFFUSE LENS, MEDIUM DISTRIBUTION. PROVIDE WITH AIRCRAFT CABLE, HOOK, AND ALL REQUIRED HARDWARE FOR PENDANT MOUNTING.	PENDANT	LED 22,000 LUMENS 4000K 80 CRI	120	LITHONIA I-BEAM IBE HE WILLIAMS GS OR APPROVED EQUAL	175
B1X	(X) = PROVIDE WITH EMERGENCY BATTERY.	PENDANT	LED 22,000 LUMENS 4000K 80 CRI	120	LITHONIA I-BEAM IBE HE WILLIAMS GS OR APPROVED EQUAL	175
C1	4" WIDE, 8'-0" LONG RECESSED LINEAR PERIMETER LIGHT FIXTURE WITH FLUSH DIFFUSER. CONTINUOUS ROW MOUNTING. REFER TO ARCHITECTURAL PLANS FOR EXACT LENGTHS. COORDINATE FINISH WITH ARCHITECT. PROVIDE ALL MOUNTING HARDWARE NEEDED FOR PERIMETER RECESSED INSTALLATION. 0-10V DIMMING.	RECESSED PERIMETER	LED 2,800 LUMENS 3500K 80 CRI	120	COOPER DEFINE 4 MARK SLOT 4 OR APPROVED EQUAL	40
D1	4" OPEN LED MODULE DOWNLIGHT WITH SEMI-SPECULAR REFLECTOR, TRIM FLANGE WITH SAME FINISH. INTEGRAL DRIVER. MEDIUM OPTIC DISTRIBUTION.	RECESSED	LED 1,000 LUMENS 3500K 80 CRI	120	LITHONIA LDN4 PORTFOLIO SERIES LD4B LIGHTOLIER SERIES PAR OR APPROVED EQUAL	15
E1	SAME AS FIXTURE D1, BUT PROVIDE WITH DIFFERENT COLOR TEMPERATURE AND WET LOCATION LISTED.	RECESSED	LED 1,000 LUMENS 4000K 80 CRI	120	SAME AS D1.	15
E1X	(X) = PROVIDE WITH EMERGENCY BATTERY.	RECESSED	LED 1,000 LUMENS 4000K 80 CRI	120	SAME AS D1.	15
G1	10" TALL, 4" DIAMETER CYLINDRICAL LIGHT FIXTURE. PROVIDE WITH RED GLASS LENS ACCESSORY AND AN A19, E26 MEDIUM BASE, LED, FLASHING LIGHT BULB. WET LOCATION LISTED. PROVIDE WATTSTOPPER FSP-211 MOTION SENSOR ONLY FOR THE FIXTURES INDICATED ON SHEET E102. (4) TOTAL.	SURFACE	(1) LED BULB	120	SPECTRUM LIGHTING SJ1INC OR APPROVED EQUAL	10
G2	SAME AS G1, BUT WALL MOUNT VERSION AND PROVIDE WITH WATTSTOPPER FSP-211 MOTION SENSOR.	WALL	(1) LED BULB	120	SPECTRUM LIGHTING WJ1INC OR APPROVED EQUAL	10
P1	SINGLE HEAD DIE CAST ALUMINUM SITE LUMINAIRE WITH TYPE IV FORWARD THROW DISTRIBUTION, RECTANGULAR ARM, 1050mA MAXIMUM ELECTRONIC DRIVER, INTEGRAL MOTION SENSOR DIMS FIXTURE TO 50% OUTPUT AFTER NO MOTION HAS BEEN DETECTED FOR 15 MINUTES, AND RAMP'S UP TO 100% UPON MOTION DETECTION. 30" SQUARE STRAIGHT STEEL POLE WITH BASE COVER.	CONCRETE BASE	LED 14,500 LUMENS 4000K 80 CRI	120	LITHONIA: D SERIES SIZE 1 OR APPROVED EQUAL	140
P2	SAME AS FIXTURE P1, BUT PROVIDE WITH TYPE II DISTRIBUTION AND DIFFERENT LUMEN PACKAGE.	CONCRETE BASE	LED 12,600 LUMENS 4000K 80 CRI	120	SAME AS P1	110
P3	SAME AS FIXTURE P1, BUT (2) HEAD FIXTURE, POSITIONED 180 DEGREES APART.	CONCRETE BASE	LED 14,500 LUMENS/HEAD 4000K 80 CRI	120	SAME AS P1	280
P4	SAME AS FIXTURE P1, BUT (2) HEAD FIXTURE WITH (1) P1 HEAD AND (1) P2 HEAD POSITIONED 180 DEGREES APART. REFER TO SITE PLAN FOR DIRECTION OF THE HEADS.	CONCRETE BASE	LED 14,500 LUMENS (P1) 12,600 LUMENS (P2) 4000K 80 CRI	120	SAME AS P1	250
P5	SAME AS FIXTURE P1, BUT (2) HEAD FIXTURE WITH (1) P1 HEAD AND (1) P2 HEAD POSITIONED POSITIONED 90 DEGREES APART. REFER TO SITE PLAN FOR DIRECTION OF THE HEADS.	CONCRETE BASE	LED 14,500 LUMENS (P1) 12,600 LUMENS (P2) 4000K 80 CRI	120	SAME AS P1	250
S1	4'-0" LONG STRIP LIGHT, ROUND DIFFUSE LENS, GENERAL DISTRIBUTION. PROVIDE WITH MOUNTING HARDWARE REQUIRED FOR PENDANT AND SURFACE MOUNT APPLICATIONS.	PENDANT SURFACE	LED 5,000 LUMENS 4000K 80 CRI	120	LITHONIA CLX COLUMBIA MPS OR APPROVED EQUAL	35
S1X	(X) = PROVIDE WITH EMERGENCY BATTERY.	PENDANT SURFACE	LED 5,000 LUMENS 4000K 80 CRI	120	LITHONIA CLX COLUMBIA MPS OR APPROVED EQUAL	35
W	EXTERIOR WALL PACK, FORWARD THROW. ARCHITECT TO SELECT FINISH.	WALL	LED 1,500 LUMENS 4000K 80 CRI	120	LITHONIA WST OR APPROVED EQUAL	15
WX	(X) = PROVIDE WITH INTEGRAL EMERGENCY BATTERY.	WALL	LED 1,500 LUMENS 4000K 80 CRI	120	LITHONIA WST OR APPROVED EQUAL	15
X1	LED EXIT SIGN, SINGLE OR DOUBLE FACE AS REQUIRED AND/OR SHOWN ON DRAWINGS. UNIVERSAL MOUNT. RECESSED MOUNTED, EDGE-LIT, RED LETTERING ON MIRROR. SEALED NI-CAD BATTERY, MINIMUM 90 MINUTE CAPACITY. DRAWINGS INDICATE ARROWS.	UNIVERSAL	LED	120	LITHONIA LRP OR APPROVED EQUAL	3
X2	LED EXIT SIGN, SINGLE OR DOUBLE FACE AS REQUIRED AND/OR SHOWN ON DRAWINGS. UNIVERSAL MOUNT. CAST ALUMINUM HOUSING, RED LETTERING. SEALED NI-CAD BATTERY, MINIMUM 90 MINUTE CAPACITY. DRAWINGS INDICATE ARROWS. FURNISH WITH PENDANT MOUNT KIT FOR INSTALLATIONS IN OPEN CEILING AREAS AWAY FROM WALLS.	UNIVERSAL	LED	120	DUAL LITE SERIES SE CHLORIDE SERIES CAD LITHONIA SERIES LE WILLIAMS SERIES EXIT/CA OR APPROVED EQUAL	3

LIGHTING CONTROL PANEL - "LCP"

RELAY #	RELAY AREA DESCRIPTION	LOAD	CIRCUIT	SCHEDULED ON	SCHEDULED OFF	NOTES
1	WEST EXTERIOR BLDG MNTD	270	P3-3	PHOTOCELL	PHOTOCELL	
2	EAST EXTERIOR BLDG MNTD	210	P3-4	PHOTOCELL	PHOTOCELL	
3	UNDER MEZZ AND HIGHBAYS	1,015	P3-5	TIMECLOCK	TIMECLOCK	1,3
4	HIGHBAYS	1,575	P3-6	TIMECLOCK	TIMECLOCK	1,3
5	HIGHBAYS	1,575	P3-7	TIMECLOCK	TIMECLOCK	1,3
6	HIGHBAYS	1,400	P3-8	TIMECLOCK	TIMECLOCK	1,3
7	HIGHBAYS	1,050	P3-9	TIMECLOCK	TIMECLOCK	1,3
8	HIGHBAYS	1050	P3-10	TIMECLOCK	TIMECLOCK	1,3
9	POLE LIGHT FIXTURES EAST	640	P3-12	PHOTOCELL	PHOTOCELL	2
10	POLE LIGHT FIXTURES WEST	530	P3-13	PHOTOCELL	PHOTOCELL	2
11	MEZZANINE CEILING FIXTURES	665	P3-2	TIMECLOCK	TIMECLOCK	1,3
12						
13						
14						
15						
16						

NOTES:  
CABINET REQUIREMENTS:  
- BASIS OF DESIGN IS THE WATTSTOPPER LMCP SERIES. ALL PRODUCT SUBSTITUTIONS SUBMITTED MUST BE APPROVED AS EQUAL.  
- ALL RELAYS TO BE RATED FOR 20A (MINIMUM) - NORMALLY CLOSED.  
- PHOTOCELL INPUT FOR CONTROL OF EXTERIOR LIGHTING. ELECTRICAL CONTRACTOR TO PROVIDE CABLING REQUIRED BETWEEN THE EXTERIOR PHOTOCELL AND RELAY CABINETS. MOUNT PHOTOCELL ON ROOF AND AIM NORTH.  
- SEVEN DAY TIME CLOCK INCLUDING SKIP-A-DAY CAPABILITY.  
- PROVIDE ETHERNET INTERFACE FOR REMOTE PROGRAMMING, BAS INTERFACE, AND OWNER LOCAL AREA NETWORK FOR REMOTE SCHEDULE PROGRAMMING.

NOTES:  
1. COORDINATE SCHEDULED ON/OFF TIME OF DAY WITH OWNER PRIOR TO SUBSTANTIAL COMPLETION.  
2. POLE LIGHTS DIM TO 50% AFTER NO MOTION HAS BEEN DETECTED FOR 15 MINUTES VIA INTEGRAL MOTION SENSOR/DIMMING.  
3. AFTER BUSINESS HOURS, LIGHTS TURN OFF. SWITCH FOR EACH ZONE ALLOWS LIGHTS TO TURN ON FOR UP TO 2 HOURS, THEN AUTOMATICALLY TURN OFF. REFER TO SHEET E101 FOR OVERRIDE SWITCH LOCATIONS.



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1828 Walnut Street Suite 922  
Kansas City, MO 64108  
1.816.442.7100

115 Wilcox Street Suite 210  
Castle Rock, CO 80104  
1.720.949.1689

HOLLISANDMILLER.COM

Holla + Miller Architects  
Missouri State Certificate of Authority  
Architectural # 0000181  
Structural # 000003331

MKEC Engineering, Inc.  
Civil Engineer  
State Certificate of Authority  
Engineering #2001009364  
Landscaping #2006027139  
Surveying #2006027138  
11827 W 121st Street, Suite 200  
Overland Park, Johnson County, KS 66210  
913.317.9390 phone  
913.317.9385 fax

Bob D Campbell  
Structural Engineer  
State Certificate of Authority #000442  
4338 Bellview Ave.  
Kansas City, MO 64111  
816.531.4144 phone  
816.531.8572 fax

Smith & Boucher Inc.  
Mech/Elect Engineer  
State Certificate of Authority #EGC-000178  
25618 W 103rd Street  
Olathe, KS 66061  
913.345.2127 phone

Fellers Food Service Equipment & Design  
Food Service Consultant  
2140 W Grand St Suite B  
Springfield, MO 65802  
417.862.0812 phone

CONSTRUCTION DOCUMENTS

1138 Southview Dr, Liberty, MO 64068

Distribution Center  
Liberty Public Schools

REVISIONS:

#	Description	Date

STATE OF MISSOURI  
RYAN JEROD DIEDIKER  
JANUARY 201500691  
REGISTERED PROFESSIONAL ENGINEER  
10/10/23

JOB NO: 23021.00  
DRAWN BY: SBI  
CHECKED BY: RJD  
DATE: 10.10.2023

E302

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ELECTRICAL SCHEDULES AND DETAIL

Please consider the environment before printing this sheet.







PANEL EDP				EQUIPMENT GROUND BUS					
MAIN BUS AMPS:		600 A		AIC:		65,000 A			
MAIN BREAKER:		500 A		SECTIONS:		1 - 42 SPACE			
VOLTAGE:		208Y/120 V		MOUNTING:		SURFACE			
PHASES/WIRES:		3 PH / 4 W		ENCLOSURE TYPE:		NEMA 1			
CIRCUIT DESCRIPTION		POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION	
FREEZER EVAPORATOR COIL HEATER		3	30	1	2	30	3	FREEZER EVAPORATOR COIL HEATER	
				3	4				
				5	6				
COOLER CONTROL PANEL		3	45	7	8	45	3	COOLER CONTROL PANEL	
				9	10				
				11	12				
WALK-IN FREEZER CONTROL PANEL		3	60	13	14	60	3	WALK-IN FREEZER CONTROL PANEL	
				15	16				
				17	18				
PANEL 'EP'		3	150	19	20	60	3	WALK-IN FREEZER CONTROL PANEL	
				21	22				
				23	24				
FREEZER EVAPORATOR COIL HEATER		3	30	25	26	60	3	WALK-IN FREEZER CONTROL PANEL	
				27	28				
				29	30				
FREEZER EVAPORATOR COIL HEATER		3	30	31	32		1	PREPARED SPACE	
				33	34		1	PREPARED SPACE	
				35	36		1	PREPARED SPACE	
PREPARED SPACE		1		37	38		1	PREPARED SPACE	
PREPARED SPACE		1		39	40		1	PREPARED SPACE	
PREPARED SPACE		1		41	42		1	PREPARED SPACE	

PANEL		EP						MAIN LUGS ONLY EQUIPMENT GROUND BUS							
MAIN BUS AMPS:		150 A		AIC:		65,000 A									
MAIN BREAKER:		N/A		SECTIONS:		1 - 42 SPACE									
VOLTAGE:		208Y/120 V		MOUNTING:		SURFACE									
PHASES/WIRES:		3 PH / 4 W		ENCLOSURE TYPE:		NEMA 1									
CIRCUIT DESCRIPTION			POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION						
FREEZER - DOOR LTG, HEATED VENTS			1	20	1	2	20	1	COOLER - DOOR LTG, HEATED VENTS						
FREEZER - LIGHTS			1	20	3	4	20	1	COOLER - LIGHTS						
COOLER - AIR SHIELD			1	20	5	6	20	2	COOLER AIR CURTAIN						
COOLER - ROLL UP DOOR			3	20	7	8									
					9	10	20	2	FREEZER AIR CURTAIN						
					11	12									
TEMPTRACK MONITOR			1	20	13	14	20	1	FREEZER COIL HEAT TAPE						
SPARE			1	20	15	16	20	1	FREEZER COIL HEAT TAPE						
COOLER EVAPORATOR COIL FAN			1	20	17	18	20	1	COOLER EVAPORATOR COIL FAN						
IT EQUIPMENT			1	20	19	20	20	1	IT EQUIPMENT						
IT EQUIPMENT			1	20	21	22	20	1	IT EQUIPMENT						
IT EQUIPMENT			1	20	23	24	20	3	FREEZER - ROLL UP DOOR						
FREEZER - DOOR HEATER			1	20	25	26									
FLOOR WARMING SYSTEM			2	25	27	28									
					29	30	20	1	FREEZER COIL HEAT TAPE						
SPARE			1	20	31	32	20	1	FREEZER COIL HEAT TAPE						
SPARE			1	20	33	34	20	1	SPARE						
SPARE			1	20	35	36	20	1	SPARE						
SPARE			1	20	37	38	20	1	SPARE						
PREPARED SPACE			1		39	40		1	PREPARED SPACE						
PREPARED SPACE			1		41	42		1	PREPARED SPACE						

PANEL MP2										MAIN LUGS ONLY EQUIPMENT GROUND BUS									
MAIN BUS AMPS:		400 A		AIC:		65,000 A													
MAIN BREAKER:		N/A		SECTIONS:		1 - 30 SPACE													
VOLTAGE:		208Y/120 V		MOUNTING:		SURFACE													
PHASES/WIRES:		3 PH / 4 W		ENCLOSURE TYPE:		NEMA 1													
CIRCUIT DESCRIPTION				POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION									
DWH-1				1	20	1	2	15	1	SF-4,5,6									
UH-3				2	20 LOCK	3	4	20 LOCK	3	UH-2									
						5	6												
CU-2				2	25	7	8												
						9	10	25	2	CU-3									
PANEL 'P2'				3	125	11	12			PANEL 'P3'									
						13	14	100	3										
						15	16												
REC - TRUCK BLOCK HEATER				1	20	17	18												
REC - TRUCK BLOCK HEATER				1	20	19	20	20	1	REC - TRUCK BLOCK HEATER									
REC - TRUCK BLOCK HEATER				1	20	21	22			PREPARED SPACE									
PREPARED SPACE				1		23	24			PREPARED SPACE									
PREPARED SPACE				1		25	26			PREPARED SPACE									
PREPARED SPACE				1		27	28			PREPARED SPACE									
PREPARED SPACE				1		29	30			PREPARED SPACE									
										LOCK - LOCKABLE TAB									

PANEL

P3

MAIN BUS AMPS:

100 A

MAIN BREAKER:

N/A

VOLTAGE:

208Y/120 V

PHASES/WIRES:

3 PH / 4 W

AIC:

SECTIONS:

MOUNTING:

ENCLOSURE TYPE:

18,000 A

1 - 30 SPACE

SURFACE

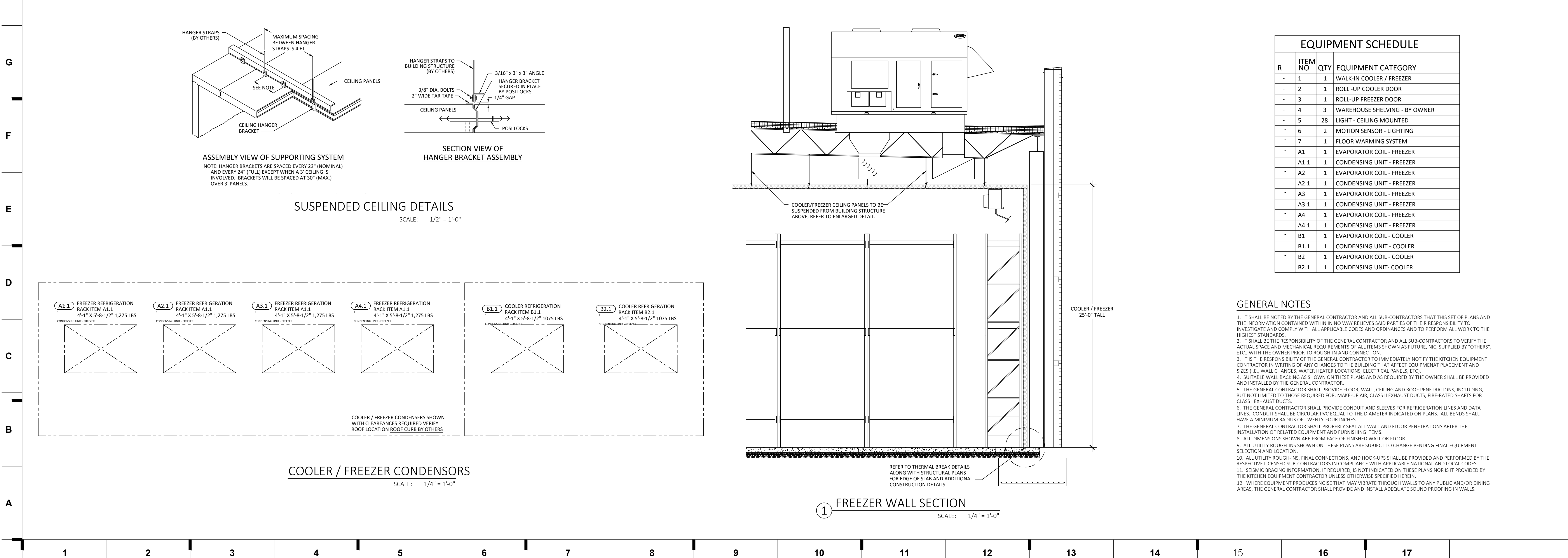
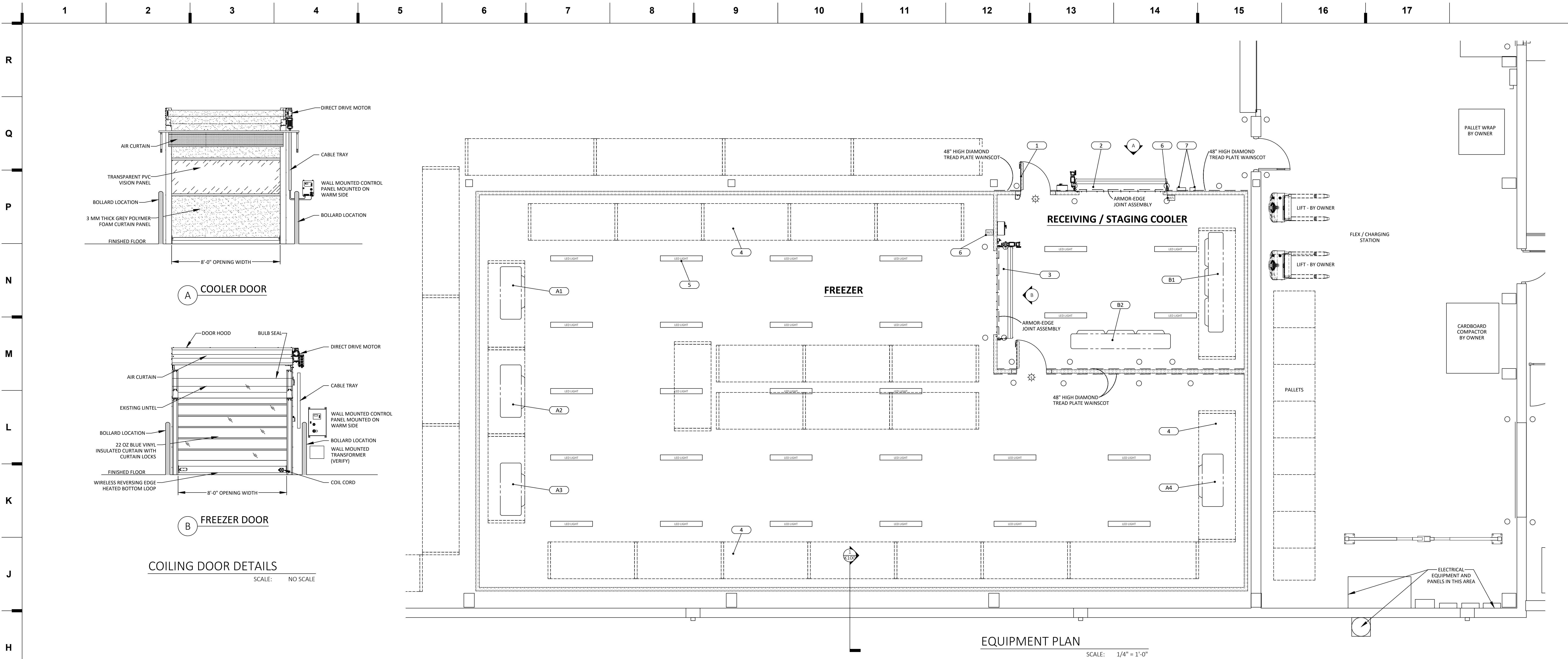
NEMA 1

MAIN LUGS ONLY

EQUIPMENT GROUND BUS

CIRCUIT DESCRIPTION	POLES	AMPS	CKT NO	CKT NO	AMPS	POLES	CIRCUIT DESCRIPTION
LTG - COORD. OFFICE, RR. LAUNDARY	1	20	1	2	20	1	LTG - MEZZANINE
LTG - WEST EXTERIOR BLDG MNTD	1	20	3	4	20	1	LTG - EAST EXTERIOR BLDG MNTD
LTG - UNDER MEZZ AND HIGHWAY	1	20	5	6	20	1	LTG - HIGHBAYS
LTG - HIGHBAYS	1	20	7	8	20	1	LTG - HIGHBAYS
LTG - HIGHBAYS	1	20	9	10	20	1	LTG - HIGHBAYS
BUILDING MANAGEMENT SYSTEM - BMS	1	20	11	12	20	1	LTG - POLE LIGHT FIXTURES EAST
LTG - POLE LIGHT FIXTURES WEST	1	20	13	14	20	1	LIGHTING CONTROL PANEL - LCP
SPARE	1	20	15	16	20	1	SPARE
SPARE	1	20	17	18	20	1	SPARE
SPARE	1	20	19	20	20	1	PREPARED SPACE
PREPARED SPACE	1		21	22		1	PREPARED SPACE
PREPARED SPACE	1		23	24		1	PREPARED SPACE
PREPARED SPACE	1		25	26		1	PREPARED SPACE
PREPARED SPACE	1		27	28		1	PREPARED SPACE
PREPARED SPACE	1		29	30		1	PREPARED SPACE





EQUIPMENT SCHEDULE			
R	ITEM NO	QTY	EQUIPMENT CATEGORY
-	1	1	WALK-IN COOLER / FREEZER
-	2	1	ROLL-UP COOLER DOOR
-	3	1	ROLL-UP FREEZER DOOR
-	4	3	WAREHOUSE SHELVING - BY OWNER
-	5	28	LIGHT - CEILING MOUNTED
-	6	2	MOTION SENSOR - LIGHTING
-	7	1	FLOOR WARMING SYSTEM
-	A1	1	EVAPORATOR COIL - FREEZER
-	A1.1	1	CONDENSING UNIT - FREEZER
-	A2	1	EVAPORATOR COIL - FREEZER
-	A2.1	1	CONDENSING UNIT - FREEZER
-	A3	1	EVAPORATOR COIL - FREEZER
-	A3.1	1	CONDENSING UNIT - FREEZER
-	A4	1	EVAPORATOR COIL - FREEZER
-	A4.1	1	CONDENSING UNIT - FREEZER
-	B1	1	EVAPORATOR COIL - COOLER
-	B1.1	1	CONDENSING UNIT - COOLER
-	B2	1	EVAPORATOR COIL - COOLER
-	B2.1	1	CONDENSING UNIT - COOLER

- GENERAL NOTES**
- IT SHALL BE NOTED BY THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS THAT THIS SET OF PLANS AND THE INFORMATION CONTAINED WITHIN IN NO WAY RELIEVES SAID PARTIES OF THEIR RESPONSIBILITY TO INVESTIGATE AND COMPLY WITH ALL APPLICABLE CODES AND ORDINANCES AND TO PERFORM ALL WORK TO THE HIGHEST STANDARDS.
  - IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS TO VERIFY THE ACTUAL SPACE AND MECHANICAL REQUIREMENTS OF ALL ITEMS SHOWN AS FUTURE, N/C, SUPPLIED BY "OTHERS", ETC., WITH THE OWNER PRIOR TO ROUGH-IN AND CONNECTION.
  - IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO IMMEDIATELY NOTIFY THE KITCHEN EQUIPMENT CONTRACTOR IN WRITING OF ANY CHANGES TO THE BUILDING THAT AFFECT EQUIPMENT PLACEMENT AND SIZES (I.E., WALL CHANGES, WATER HEATER LOCATIONS, ELECTRICAL PANELS, ETC.).
  - SUITABLE WALL BRACING AS SHOWN ON THESE PLANS AND AS REQUIRED BY THE OWNER SHALL BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR.
  - THE GENERAL CONTRACTOR SHALL PROVIDE FLOOR, WALL, CEILING AND ROOF PENETRATIONS, INCLUDING, BUT NOT LIMITED TO THOSE REQUIRED FOR: MAKE-UP AIR, CLASS II EXHAUST DUCTS, FIRE-RATED SHAFTS FOR CLASS I EXHAUST DUCTS.
  - THE GENERAL CONTRACTOR SHALL PROPERLY SEAL ALL WALL AND FLOOR PENETRATIONS AFTER THE INSTALLATION OF RELATED EQUIPMENT AND FURNISHING ITEMS.
  - ALL DIMENSIONS SHOWN ARE FROM FACE OF FINISHED WALL OR FLOOR.
  - ALL UTILITY ROUGH-INS SHOWN ON THESE PLANS ARE SUBJECT TO CHANGE PENDING FINAL EQUIPMENT SELECTION AND LOCATION.
  - ALL UTILITY ROUGH-INS, FINAL CONNECTIONS, AND HOOK-UPS SHALL BE PROVIDED AND PERFORMED BY THE RESPECTIVE LICENSED SUB-CONTRACTORS IN COMPLIANCE WITH APPLICABLE NATIONAL AND LOCAL CODES.
  - SEISMIC BRACING INFORMATION, IF REQUIRED, IS NOT INDICATED ON THESE PLANS NOR IS IT PROVIDED BY THE KITCHEN EQUIPMENT CONTRACTOR UNLESS OTHERWISE SPECIFIED HEREIN.
  - WHERE EQUIPMENT PRODUCES NOISE THAT MAY VIBRATE THROUGH WALLS TO ANY PUBLIC AND/OR DINING AREAS, THE GENERAL CONTRACTOR SHALL PROVIDE AND INSTALL ADEQUATE SOUND PROOFING IN WALLS.

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1828 Walnut Street Suite 822  
Kansas City, MO 64108  
T 816.442.7700

115 Wilson Street Suite 210  
Castle Rock, CO 80104  
T 720.949.1889

**HOLLISANDMILLER.COM**

Hollis + Miller Architects  
Kansas State Certificate of Authority  
Architecture # A-198  
Structure # C-1334

**MKEC Engineering, Inc.**  
Civil Engineer  
State Certificate of Authority  
Engineering #2001100304  
Landscaping #2006027139  
Surveying #2006027138  
11827 W 12th St #2000  
Overland Park, KS 66210  
913.617.6280 phone

**Bob D. Campbell & Co.**  
Structural Engineer  
State Certificate of Authority # 000442  
4338 Bellevue Ave.  
Kansas City, MO 64111  
816.531.4144 phone  
816.531.8672 fax

**Smith & Boucher Engineers**  
Mech/Elect Engineer  
State Certificate of Authority # EFC-000178  
20618 W 102nd St  
Olathe, KS 66061  
913.345.2127 phone

**Fellers Food Service Equipment & Design**  
Food Service Consultant  
2140 W Grand St Suite B  
Springfield, MO 65802  
417.862.0612 phone

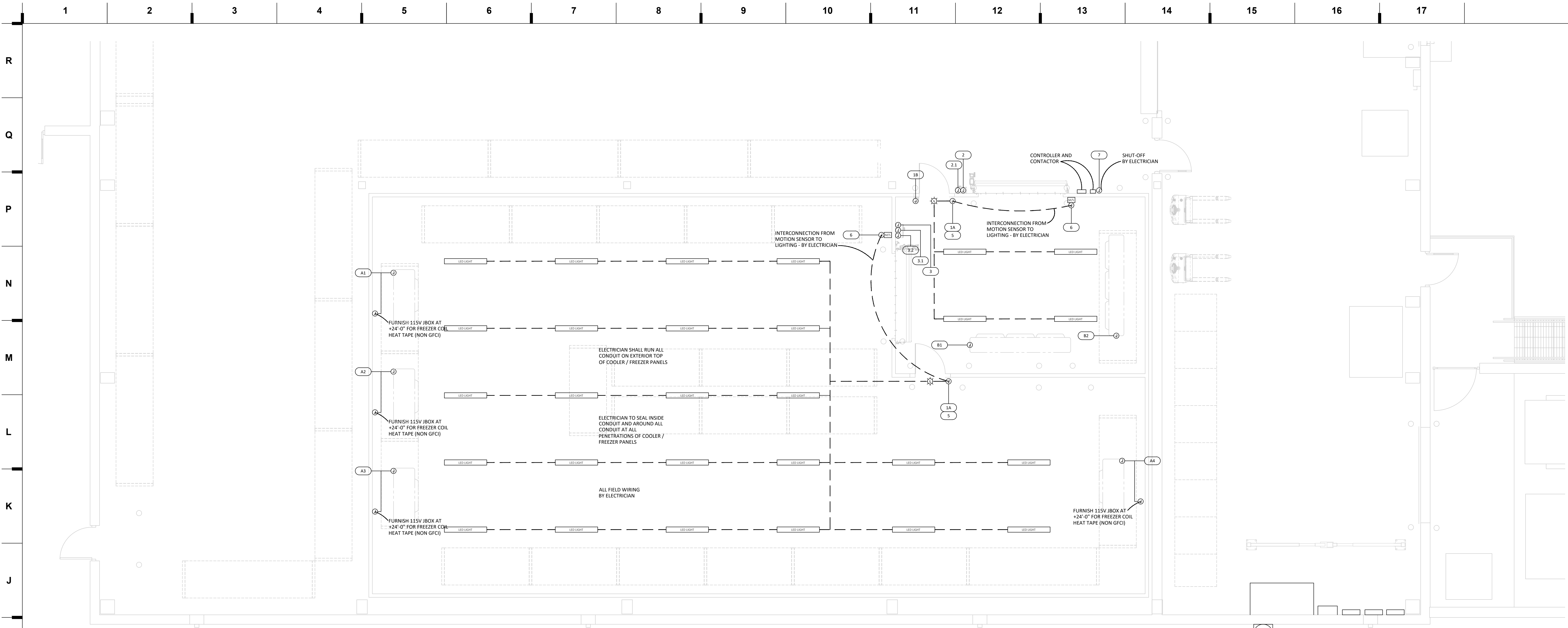
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1138 Southview Dr. Liberty, MO 64068

REVISIONS:		
#	Description	Date

JOB NO: 23021.00  
DRAWN BY: FELLERS  
CHECKED BY: FELLERS  
DATE: 08.31.2023

**K100**





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

**ELECTRICAL NOTES & DETAILS:  
WALK-IN COOLER / FREEZER**

- DEFROST TIME CLOCK - E.C. TO WIRE FREEZER EVAPORATOR THROUGH DEFROST TIME CLOCK. TIME CLOCK TO BE MOUNTED ABOVE THE EVAPORATOR AND EASILY ACCESSIBLE FOR SERVICE. N/A
- E.C. TO PROVIDE 115V JBOX (NON GFCI) AT EVAPORATOR COIL FOR DRAIN LINE HEAT TAPE. HEAT TAPE AND INSULATION SHALL BE BY E.C.
- K.E.C. TO EXTEND CONDENSATE DRAINLINE TO NEAREST FLOOR DRAIN. HEAT TAPE AND INSULATE AS REQUIRED. AT EXTERIOR OF BOX FURNISH P-TRAP.
- E.C. TO WIRE TO J-BOX ABOVE DOOR FOR LIGHTING CIRCUIT, DOOR HEATERS, AND HEATED RELIEF VENT. EXTEND CONDUIT TO 4" LED LIGHTING AS SHOWN ON PLAN. CONDUIT SHALL BE SEALED AT THE POINT OF WALL/CEILING PENETRATION ON BOTH THE EXTERIOR AND INTERIOR OF THE CONDUIT TO PREVENT CONDENSATION INSIDE THE BOX AND LIGHT FIXTURE.
- LED LIGHTING PROVIDED BY WALK-IN MANUFACTURER. K.E.C. TO HANG LIGHT FIXTURES, E.C. TO WIRE AND PROPERLY SEAL CONDUIT.
- FIELD WIRING BY E.C.
- FLOOR DRAIN BY P.C.
- E.C. TO FURNISH J-BOX FOR ETHERNET CABLING BY OTHERS FOR COOLER/FREEZER MONITORING SYSTEM. MONITORING SYSTEM TO BE PROVIDED BY WALK-IN MANUFACTURER.
- PENETRATIONS FOR FIRE SPRINKLER HEADS SHALL BE SEALED BY THE SUBCONTRACTOR INSTALLING THE FIRE PROTECTION SYSTEM. PENETRATIONS MUST BE SEALED USING AN EXPANDING SPRAY FOAM TO PROVIDE AN AIR TIGHT SEAL.
- PENETRATIONS FOR ELECTRICAL CONDUIT SHALL BE SEALED WITH AN EXPANDING SPRAY FOAM INSULATION TO PROVIDE AN AIR TIGHT SEAL. CONDUIT MUST BE SEALED ON THE INTERIOR WITH SILICONE TO ELIMINATE CONDENSATION BUILD UP IN LIGHT FIXTURES.

ELECTRICAL SCHEDULE											
R	ITEM NO.	QTY	EQUIPMENT CATEGORY	VOLTS	PH	AMPS	HP	AFF	CONN.	ELECTRIC COMMENTS	
-	1A	1	WALK-IN COOLER / FREEZER	2 @ 115	1	8.0 EA	-	25'-0"	JBOX	DOOR LIGHTS, HEATED VENTS AND THRESHOLDS	
-	1B	1	AIR SHIELD - WALK-IN COOLER	115	1	1.4	1/25	96"	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN	
-	2	1	ROLL UP DOOR - COOLER	208	3	13.3	-	42"	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN	
-	2.1	1	AIR CURTAIN @ ROLL UP DOOR - COOLER	208	1	7.2	2 @ 3/4	42"	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN	
-	3	1	ROLL UP DOOR - FREEZER	208	3	5.3	-	42"	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN	
-	3.1	1	AIR CURTAIN @ ROLL UP DOOR - FREEZER	208	1	7.2	2 @ 3/4	42"	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN	
-	3.2	1	DOOR HEATER @ ROLL UP DOOR - FREEZER	115	1	15.0	-	42"	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN	
-	5	28	LIGHT - CEILING MOUNTED	28 @ 115	1	0.5 EA	-	25'-0"	JBOX	INTERCONNECTION TO MOTION SENSORS - BY ELECTRICIAN	
-	6	2	MOTION SENSOR - LIGHTS	115 / 208	1	1.0 EA	-	96"	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN	
-	7	1	FLOOR WARMING SYSTEM	115	1	20.0	-	48"	JBOX	INTERCONNECTION TO CEILING MOUNTED LIGHTING - BY ELECTRICIAN	
-	A1	1	EVAPORATOR COIL - FREEZER	208	3	20.5	-	25'-0"	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN	
-	A1.1	1	CONDENSING UNIT - FREEZER	208	3	37.2	10	ROOF	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN	
-	A2	1	EVAPORATOR COIL - FREEZER	208	3	20.5	-	25'-0"	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN	
-	A2.1	1	CONDENSING UNIT - FREEZER	208	3	37.2	10	ROOF	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN	
-	A3	1	EVAPORATOR COIL - FREEZER	208	3	20.5	-	25'-0"	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN	
-	A3.1	1	CONDENSING UNIT - FREEZER	208	3	37.2	10	ROOF	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN	
-	A4	1	EVAPORATOR COIL - FREEZER	208	3	20.5	-	25'-0"	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN	
-	A4.1	1	CONDENSING UNIT - FREEZER	208	3	37.2	10	ROOF	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN	
-	B1	1	EVAPORATOR COIL - COOLER	115	1	9.6	-	25'-0"	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN	
-	B1.1	1	CONDENSING UNIT - COOLER	208	3	35.8	6	ROOF	JBOX	VERIFY ROOF LOCATION WITH ARCHITECTURAL PLANS	
-	B2	1	EVAPORATOR COIL - COOLER	115	1	9.6	-	25'-0"	JBOX	VERIFY EMERGENCY POWER CONNECTION - BY ELECTRICIAN	
-	B2.1	1	CONDENSING UNIT - COOLER	208	3	35.8	6	ROOF	JBOX	VERIFY ROOF LOCATION WITH ARCHITECTURAL PLANS	

ELECTRICAL LEGEND	
SYMBOL	DESCRIPTION
Ⓜ	JUNCTION BOX
Ⓜ	DUPLEX OUTLET (DCO)
Ⓜ	208 VOLT OUTLET (SCO)
Ⓜ	115/208 VOLT OUTLET
Ⓜ	ELECTRICAL STUB
Ⓜ	SWITCH
Ⓜ	LIGHT FIXTURE
Ⓜ	FIELD CONNECTION BY ELECTRICIAN
Ⓜ	P.O.S. NETWORK CONNECTION *
Ⓜ	PHONE
Ⓜ	CO1 20.0 AMP CONVENIENCE OUTLET + 16"
Ⓜ	CO2 20.0 AMP CONVENIENCE OUTLET + 48"
Ⓜ	CO3 20.0 AMP CONVENIENCE OUTLET + 54"
Ⓜ	BEVERAGE LINE PVC STUB-UP
Ⓜ	REFRIGERATION CONNECTION
Ⓜ	* POS SYSTEM - BY OWNER / VENDOR. PROVIDE (2) 115 VOLT OUTLETS 4.0 AMPS. PROVIDE DATA CABLE CONDUIT VERIFY PHONE LINE AND "HOME RUN" TO DATA COLLECTION STATION REQUIREMENTS.

- ELECTRICAL NOTES**
- ALL ELECTRICAL ROUGH-IN WORK AND FINAL CONNECTIONS TO ALL FOOD SERVICE AND RELATED EQUIPMENT AS SHOWN ON THE KITCHEN EQUIPMENT CONTRACTOR'S PLANS TO BE PERFORMED BY THE ELECTRICAL CONTRACTOR PER NATIONAL AND LOCAL CODES.
  - THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL STAINLESS STEEL OUTLET AND RECEPTACLE COVERS IN SERVICE AREAS.
  - THE ELECTRICAL CONNECTIONS, SPECIFICATIONS AND DIMENSIONS SHOWN ON THESE PLANS ARE FOR FOOD SERVICE EQUIPMENT ONLY. SEE THE ARCHITECT'S PLAN SET FOR ADDITIONAL ELECTRICAL REQUIREMENTS TO INCLUDE OFFICE, MENU BOARDS, TELEPHONE AND DATA LINES, ETC.
  - THE ELECTRICAL CONTRACTOR SHALL PROVIDE FUSED DISCONNECTS FOR EQUIPMENT HOOK-UPS AS REQUIRED BY CODE AND LABELING.
  - ALL ELECTRICAL ROUGH-IN WORK AND ALL FINAL CONNECTIONS FOR ALL ITEMS SHOWN AND SPECIFIED ON THESE PLANS BY FELLERS FOOD SERVICE EQUIPMENT SHALL BE PERFORMED BY THE ELECTRICAL CONTRACTOR. UNLESS OTHERWISE SPECIFIED IN THESE PLANS OR OTHER WRITTEN CONTRACTS, IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE ALL ELECTRICAL TYPE MATERIALS INCLUDING, BUT NOT LIMITED TO: WIRING, SWITCHES, DISCONNECTS, FLEX, CONDUIT, CONTACTORS, TRANSFORMERS, THERMAL OVERLOAD PROTECTORS, MAGNETIC STARTERS, SHUNT TRIP BREAKERS, ELECTRICAL PANELS, CORDS, PLUGS, COVERS, ETC.
  - ELECTRICAL CONTRACTOR SHALL PROVIDE THE KITCHEN EQUIPMENT CONTRACTOR WITH ELECTRICAL PANEL(S) SIZE AND LOCATION ALONG WITH AVAILABLE VOLTAGE AND PHASE.
  - THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL COMPONENTS FOR WALK-IN REFRIGERATORS AND FREEZERS INCLUDING, BUT NOT LIMITED TO: DEFROST CIRCUITS AND INTERCONNECTIONS BETWEEN REMOTE COMPRESSORS AND INTERIOR MOUNTED EVAPORATOR COILS. ELECTRICAL SHALL ALSO PROVIDE DISCONNECTS AND THERMO-OVERLOAD PROTECTION FOR COMPRESSORS.
  - ELECTRICAL CONTRACTOR TO FURNISH 120V NON-GFCI OUTLET IN COOLER/FREEZER FOR HEAT TAPE.
  - THE ELECTRICAL CONTRACTOR SHALL PROVIDE EITHER CORD AND PLUG CONNECTIONS ON DISCONNECT AS SPECIFIED FOR ICE MACHINE MAKER.
  - IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE INTERCONNECT SWITCHING BETWEEN THE KITCHEN HOOD EXHAUST FANS AND THE KITCHEN MAKE-UP AIR SYSTEMS AS REQUIRED PER LOCAL CODE AND AUTHORITIES.
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  - ELECTRICAL CONTRACTOR SHALL VERIFY REQUIREMENTS OF CASH REGISTERS, PRINTERS, COMPUTERS, SOUND SYSTEM, ETC. INCLUDING CONDUIT RUNS AND DEDICATED / ISOLATED OUTLET REQUIREMENTS.
  - ALL DIMENSIONS SHOWN ARE FROM GRID LINES. FINISHED WALLS OR FINISHED FLOORS TO CENTER LINE OF ELECTRICAL OUTLET BOXES. HEIGHTS ARE NOT TO BE TAKEN FROM CURBS OR PLATFORMS.
  - ELECTRICAL CONTRACTOR TO FURNISH EMERGENCY SHOT OFF'S AS REQUIRED FOR PRESSURE VESSELS (I.E. KETTLES, STEAMERS, BOILERS).

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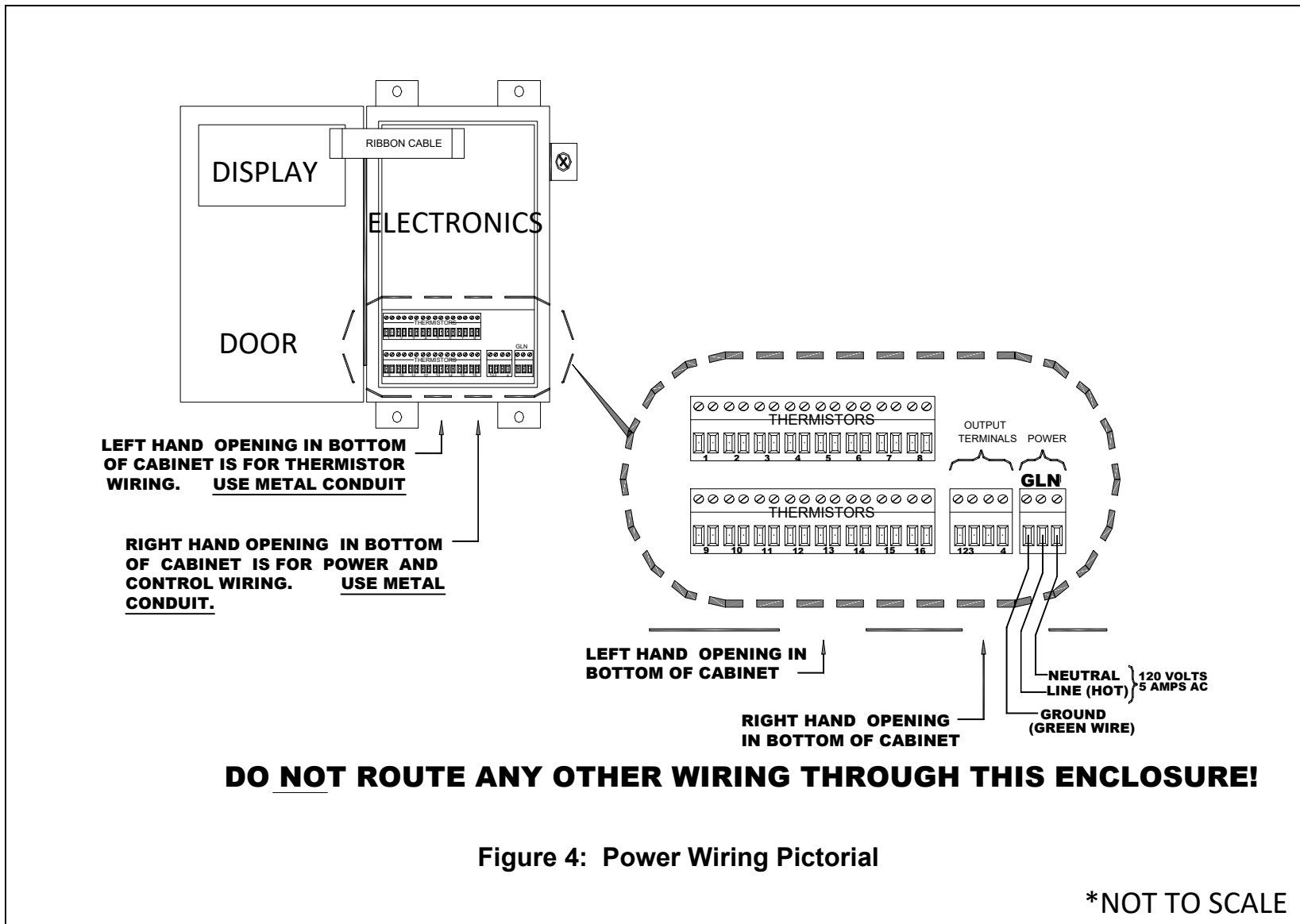
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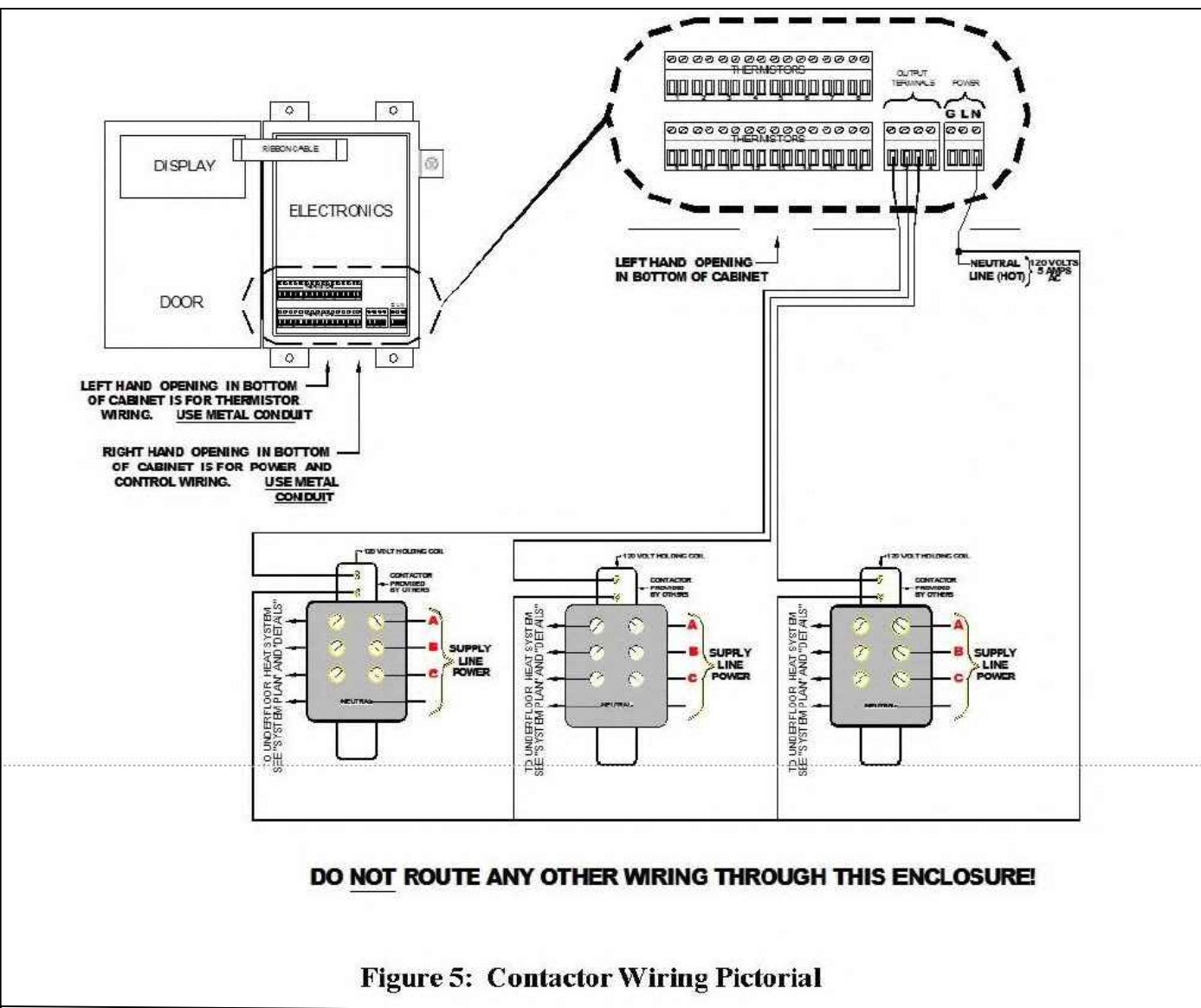
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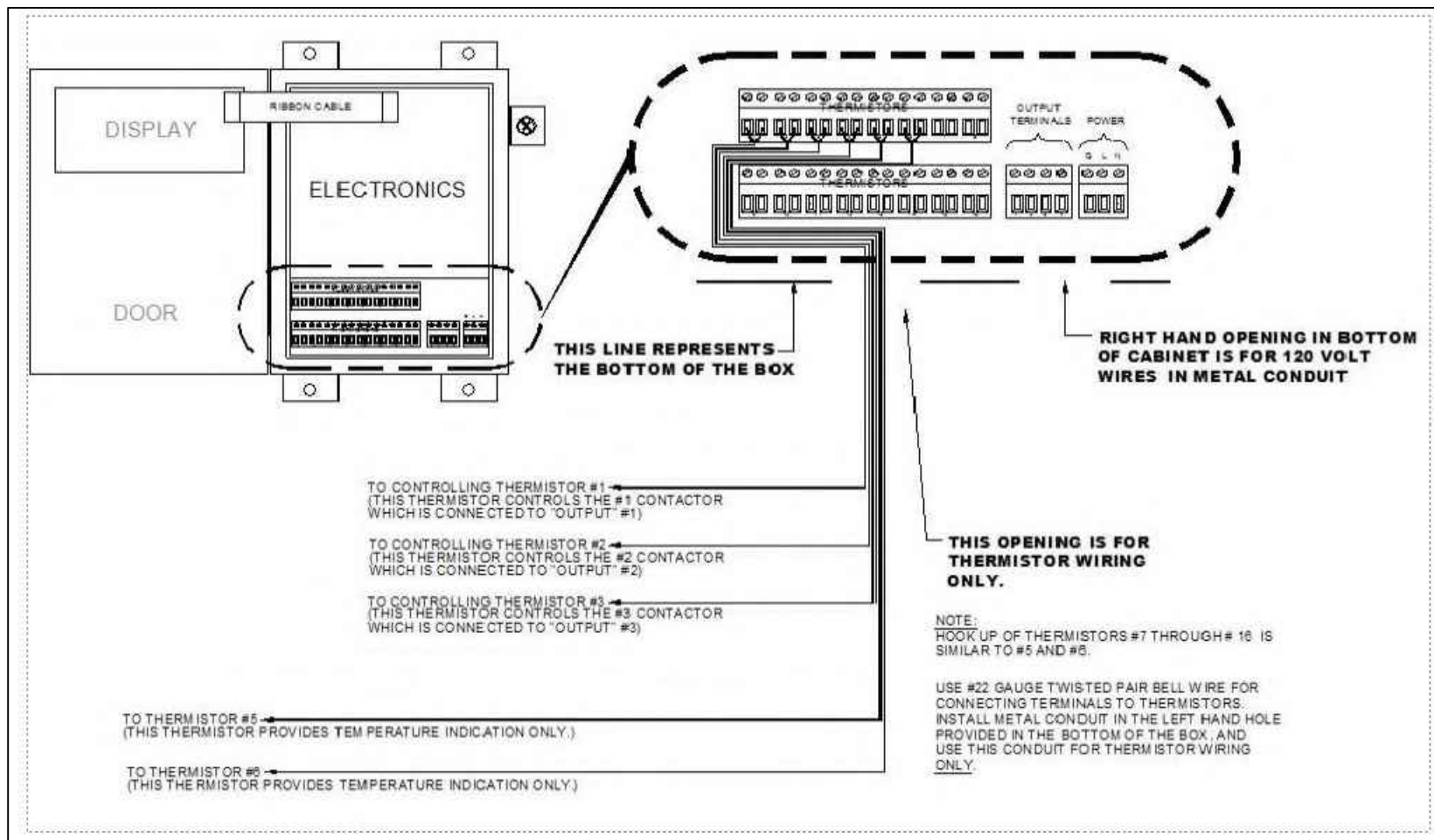




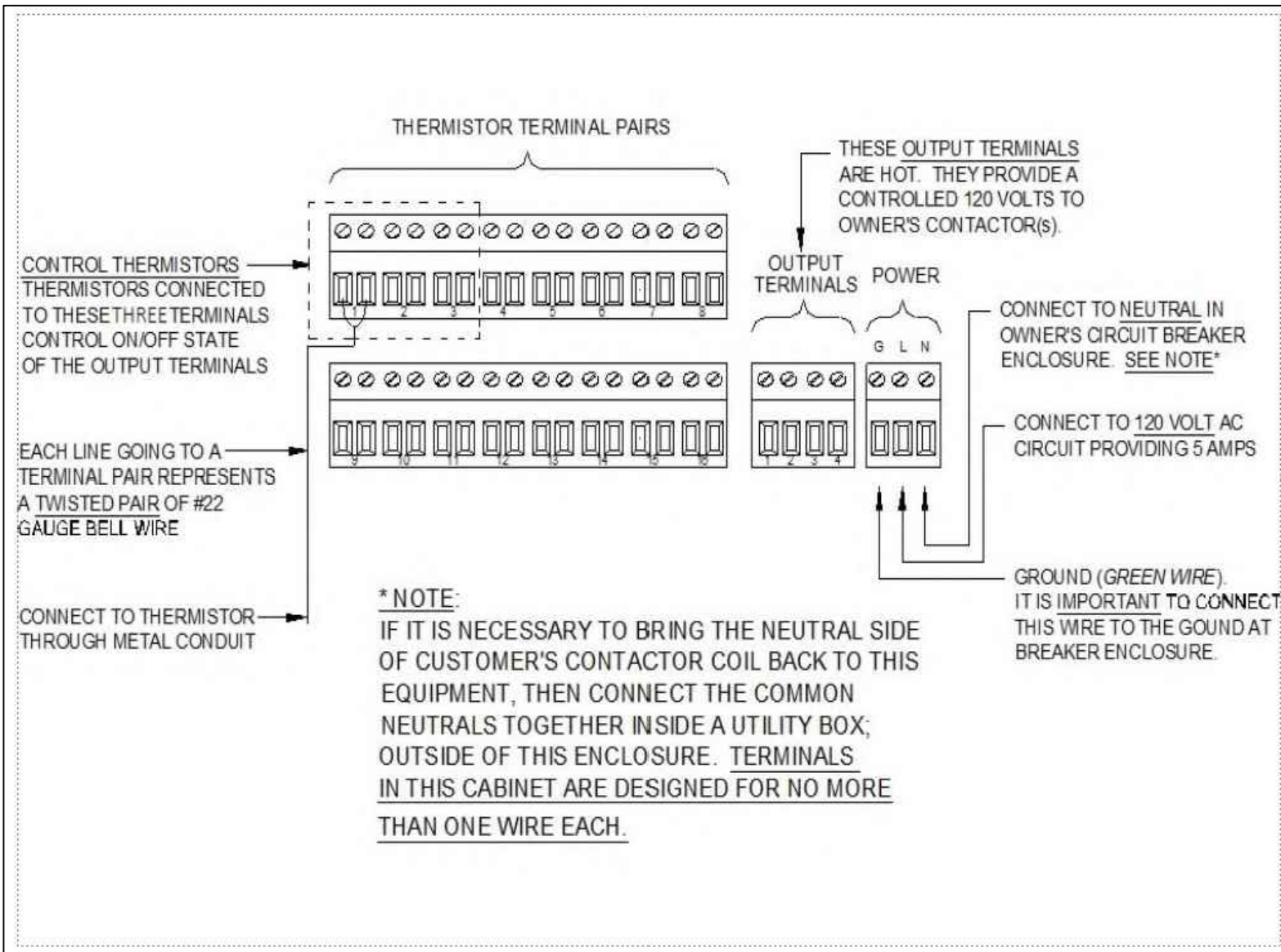
WIRE DIAGRAM #1



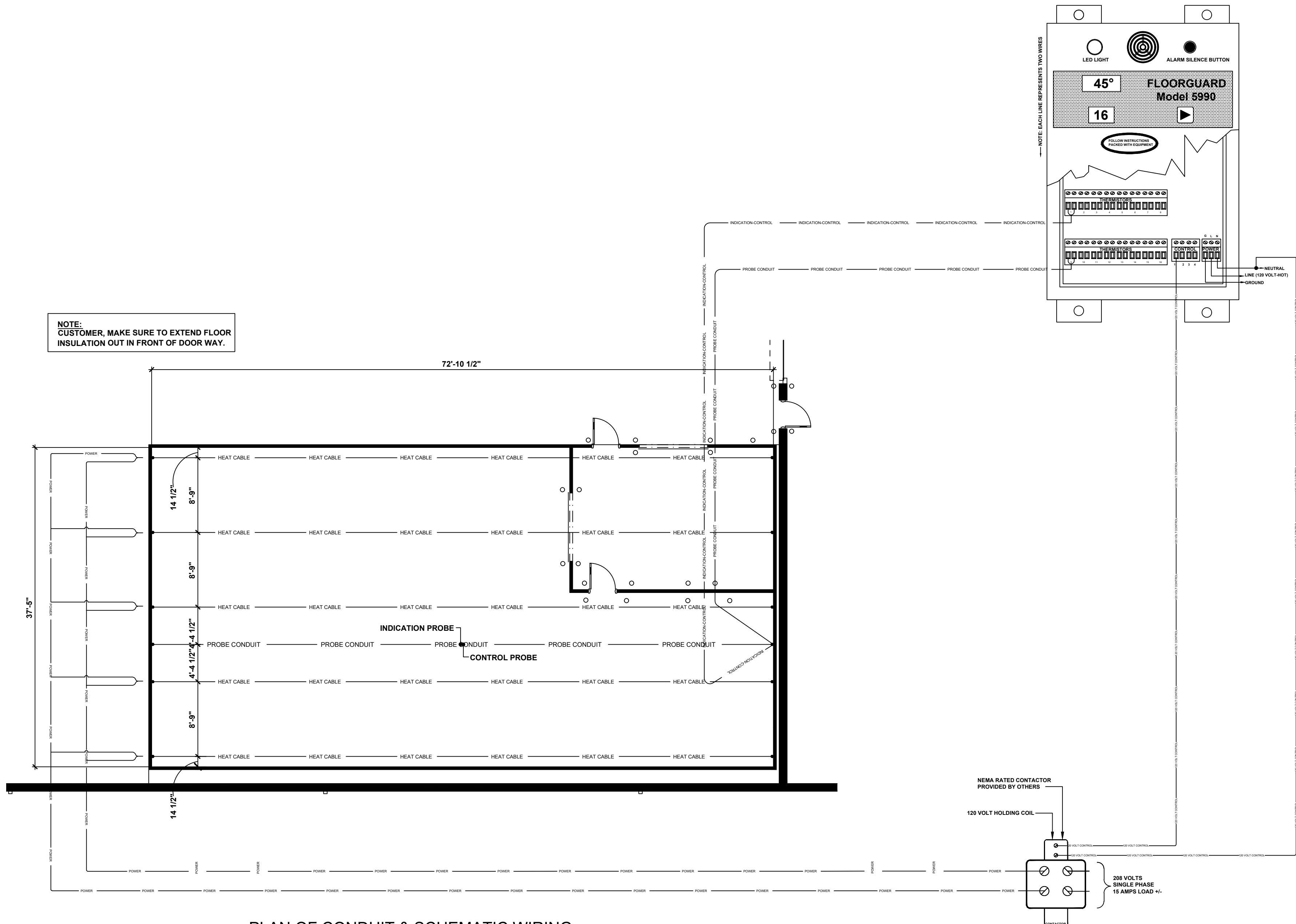
WIRE DIAGRAM #2



WIRE DIAGRAM #3



WIRE DIAGRAM #4



PLAN OF CONDUIT & SCHEMATIC WIRING  
NOT TO SCALE

HEAT CABLES OPERATE ON 208 VOLTS - PULL ROUGHLY 618 WATTS/ ± PER CABLE

ELECTRICAL NOTES

1. ALL ELECTRICAL ROUGH-IN WORK AND FINAL CONNECTIONS TO ALL FOOD SERVICE AND RELATED EQUIPMENT AS SHOWN ON THE KITCHEN EQUIPMENT CONTRACTOR'S PLANS TO BE PERFORMED BY THE ELECTRICAL CONTRACTOR PER NATIONAL AND LOCAL CODES.
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15. ELECTRICAL CONTRACTOR TO FURNISH EMERGENCY SHUT OFF'S AS REQUIRED FOR PRESSURE VESSELS (I.E. KETTLES, STEAMERS, BOILERS).

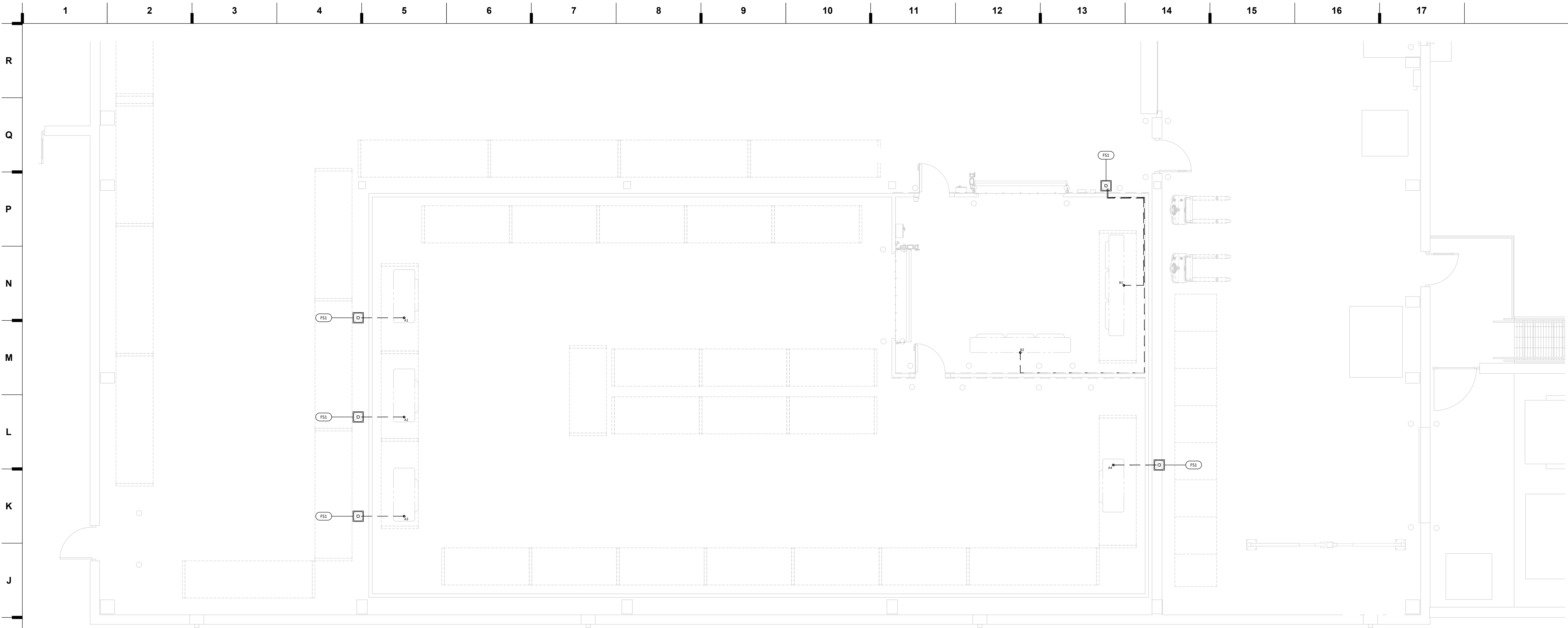
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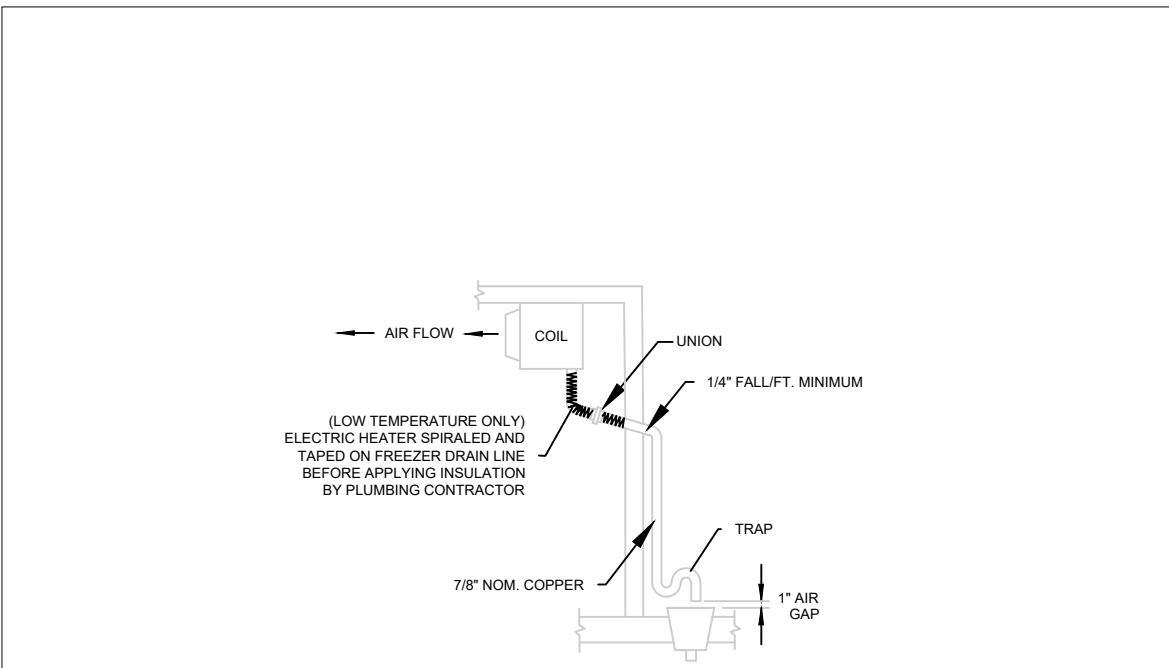
PLUMBING PLAN  
SCALE: 1/4" = 1'-0"

PLUMBING SCHEDULE												
R	ITEM	QTY	DESCRIPTION	HW	AFF	HW GPH	CW	AFF	WST TYPE	DIA	AFF	GAS MBTU
-	A1	1	EVAPORATOR COIL - FREEZER	-	-	-	-	-	FS1	1-1/4"	-	-
-	A2	1	EVAPORATOR COIL - FREEZER	-	-	-	-	-	FS1	1-1/4"	-	-
-	A3	1	EVAPORATOR COIL - FREEZER	-	-	-	-	-	FS1	1-1/4"	-	-
-	A4	1	EVAPORATOR COIL - FREEZER	-	-	-	-	-	FS1	1-1/4"	-	-
-	B1	1	EVAPORATOR COIL - COOLER	-	-	-	-	-	FS1	1-1/4"	-	-
-	B2	1	EVAPORATOR COIL - COOLER	-	-	-	-	-	FS1	1-1/4"	-	-

PLUMBING LEGEND	
SYMBOL	DESCRIPTION
	WATER SUPPLY COLD/HOT
	DIRECT WASTE
	FLOOR SINK, NO GRATE
	FLOOR SINK, 3/4 GRATE
	FLOOR SINK, 1/2 GRATE
	FUNNEL DRAIN
	FLOOR DRAIN
	GAS CONNECTION
	BEVERAGE LINE PVC STUB-UP
	REFRIGERATION CONNECTION
	FIELD CONNECTION BY PLUMBER
	INDIRECT DRAIN

PLUMBING NOTES

1. ALL PLUMBING ROUGH-IN WORK AND FINAL CONNECTIONS TO ALL FOOD SERVICE AND RELATED EQUIPMENT AS SHOWN ON THE KITCHEN EQUIPMENT CONTRACTOR'S PLANS TO BE PERFORMED BY THE PLUMBING CONTRACTOR PER NATIONAL AND LOCAL CODES.
2. UNLESS OTHERWISE SPECIFIED IN THESE PLANS OR OTHER WRITTEN CONTRACTS, IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO PROVIDE ALL PLUMBING-TYPE MATERIALS INCLUDING VALVES, TRAPS, LINE STRAINERS, FLOOR SINK COVERS, PRESSURE REGULATORS, SIPHON BREAKERS, ETC.
3. PLUMBING CONTRACTOR SHALL SIZE, FURNISH AND INSTALL ALL GREASE TRAPS OR INTERCEPTORS AS REQUIRED AND COORDINATE SIZES AND LOCATIONS WITH KITCHEN EQUIPMENT CONTRACTOR.
4. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL GAS SHUT-OFF VALVES FOR EACH PIECE OF EQUIPMENT.
5. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL DIRECT SINK WASTE LINES AND ALL INDIRECT EQUIPMENT WASTE LINES AS SHOWN ON PLANS PER LOCAL CODES, INCLUDING TRAPS, TAIL PIECES, LINE STRAINERS AS REQUIRED. INDIRECT WASTE LINE ROUTING THROUGH CABINETS SHALL BE IN A MANNER SO AS TO MAXIMIZE USABLE STORAGE SPACE.
6. ALL DRAIN LINES FROM EQUIPMENT REQUIRING CONDENSATION REMOVAL SHALL BE RUN IN COPPER.
7. THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL INSULATION MATERIAL ON ALL DRAINLINES FROM ICE BINS, ICE PANS, ETC., SO AS TO ELIMINATE CONDENSATION FORMATION.
8. ALL INDIRECT WASTE LINES TO HAVE A 2" MINIMUM AIR GAP.
9. FLOOR SINKS SHALL BE FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR IN LOCATIONS SHOWN, AND SUPPLIED WITH 3/4 GRATE OR AS SPECIFIED. AREA DRAINS, IF REQUIRED, SHALL BE VERIFIED WITH THE ARCHITECT.
10. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO VERIFY THAT THE LOCATIONS FOR ALL MECHANICAL REQUIREMENTS WHICH REQUIRE FLOOR PENETRATIONS DO NOT CONFLICT WITH STRUCTURAL MEMBERS IN THE FLOOR.
11. THE GENERAL CONTRACTOR SHALL SUPERVISE THE LOCATION OF ALL FLOOR DRAINS ON THE JOB SITE SO AS TO ENSURE THE BEST SLOPE POSSIBLE OF THE SURROUNDING FLOOR TO THESE DRAINS.
12. PLUMBER SHALL FURNISH AND INSTALL PRESSURE REDUCING VALVE(S) AT DISHWASHER(S), GLASS WASHER(S), STEAMER(S) AND OTHER EQUIPMENT, AS REQUIRED.
13. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO FURNISH AND INSTALL ALL WATER HEATERS FOR THIS PROJECT AND TO ENSURE ADEQUATE WATER SUPPLY FOR THE FOOD SERVICE EQUIPMENT. WATER TEMPERATURE TO THE DISHWASHER SHALL BE 140°. COORDINATE LOCATION OF WATER HEATER WITH KITCHEN EQUIPMENT CONTRACTOR.
14. THE PLUMBING CONNECTIONS, SPECIFICATIONS AND DIMENSIONS SHOWN ON THESE PLANS ARE FOR FOOD SERVICE EQUIPMENT ONLY. SEE ARCHITECT'S PLAN SET FOR ALL OTHER PLUMBING REQUIREMENTS FOR THIS PROJECT.



\*NOT TO SCALE

DRAIN LINE DETAIL

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Overland Park, KS 66210  
913.317.8280 phone

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Structural Engineer  
State Certificate of Authority # 000442  
4338 Bellevue Ave  
Kansas City, MO 64111  
816.531.4144 phone  
816.531.8572 fax

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State Certificate of Authority # EFC-000178  
20618 W 102nd St  
Olathe, KS 66061  
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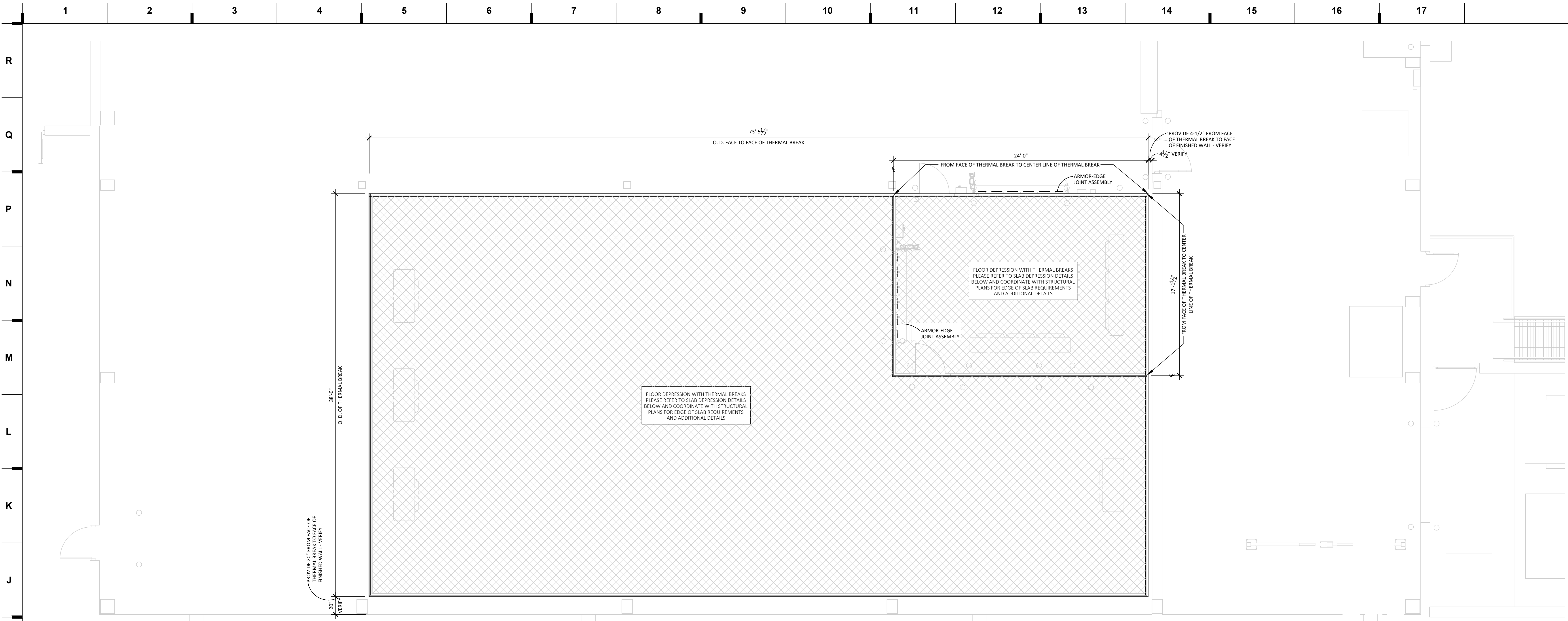
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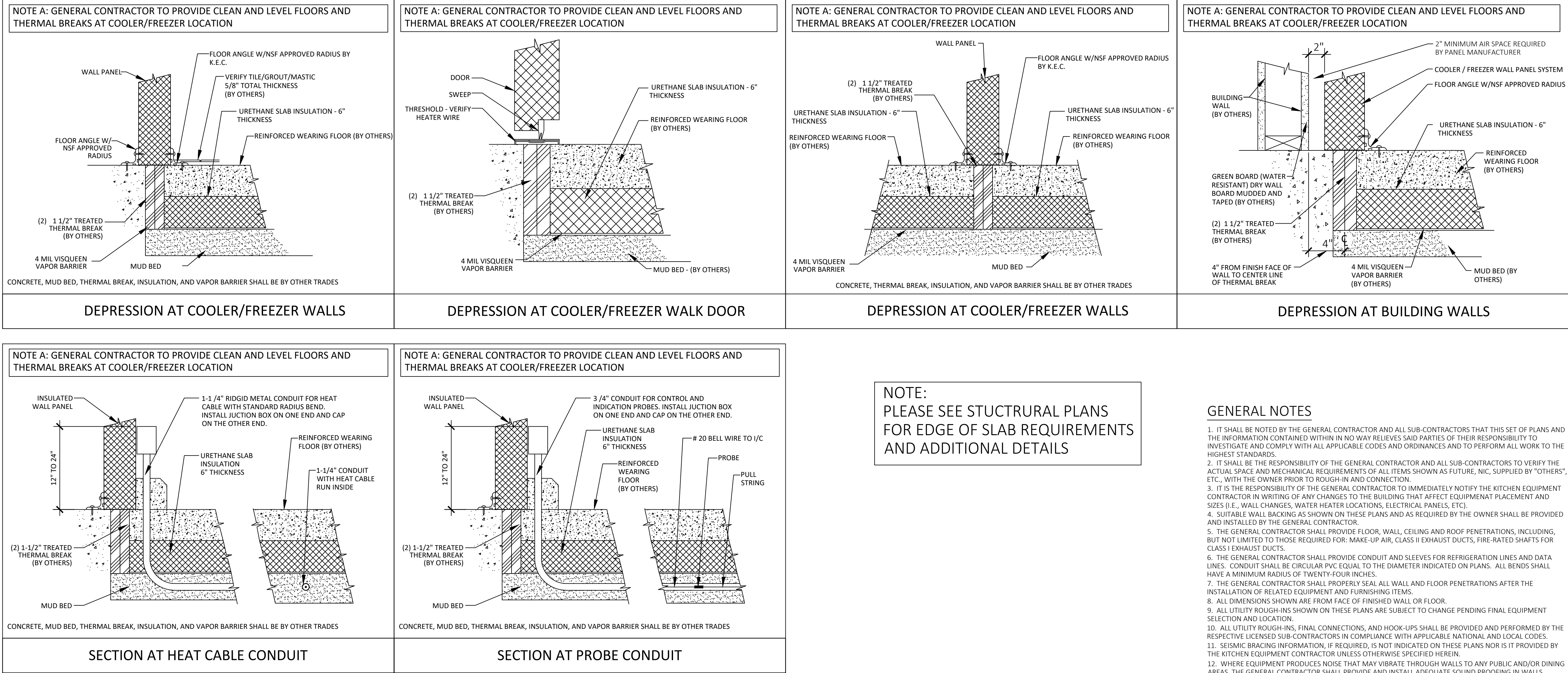
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BUILDING WORKS

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



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CABINET SIZE	CONDENSER FAN MTR. QTY.	DIMENSION (IN)		
		D	W	H
FD2	2	49	68-5/16	36-3/8

CABINET SIZE	SUGGESTED PAD SIZE (IN.)		CURB OPENING (IN.)	
	L	W	A	B
FD2	83	55	10	6

SECTION A-A  
(TYPICAL)

G.C. NOTES:

1. PLATFORM TO BE INSTALLED LEVEL.
2. PLATFORM TO BE INSTALLED IN ACCORDANCE WITH LOCAL CODES.
3. REFER TO DETAIL "C" FOR MINIMUM CLEARANCE REQUIREMENTS.

Diagram illustrating the minimum clearance for condensing units positioned by side. The unit is labeled "NEXT-GEN II CONDENSING UNIT". The diagram shows the unit's orientation with "AIR INTAKE" at the top, "REFRIGERATION PIPING SIDE" on the left, "ELECTRICAL PANEL ACCESS THIS SIDE" on the right, and "FRONT OF UNIT" at the bottom. Clearance dimensions are indicated by dashed lines and arrows:

- \*\*\*B: Clearance on the left and right sides.
- \*\*\*C: Clearance on the top side.
- \*\*\*A: Clearance on the bottom side.

A note indicates "MINIMUM CLEARANCE" with an arrow pointing to the bottom clearance dimension.

CONDENSING UNIT DESCRIPTION	MINIMUM DIMENSION (INCHES)		
	A	B	C
UNI-PAK 3.0 H.P. - 22.0 H.P.	72	30	48

\*\*\*60" MINIMUM CLEARANCE FOR CONDENSING UNITS POSITIONED SIDE BY SIDE.  
 \*\*\*120" MINIMUM CLEARANCE FOR CONDENSING UNITS POSITIONED IN FRONT OF ANOTHER.

A schematic diagram showing the installation of a drain line. At the top, a horizontal pipe with an arrow pointing left is labeled "AIR FLOW". This pipe connects to a vertical pipe labeled "COIL". Below the coil, the vertical pipe continues down, passing through a "UNION". The pipe then turns 90 degrees to the right, sloping downwards. A label "1/4\" FALL/FT. MINIMUM" points to this downward-sloping section. The pipe then turns 90 degrees downward again, passing through a "TRAP". Below the trap, the pipe continues down to an "AIR GAP", which is a vertical section of pipe above a sink. The air gap is labeled "1\" AIR GAP". The main vertical section of the pipe is labeled "7/8\" NOM. COPPER".

(LOW TEMPERATURE ONLY)  
ELECTRIC HEATER SPIRALED AND  
TAPED ON FREEZER DRAIN LINE  
BEFORE APPLYING INSULATION  
BY PLUMBING CONTRACTOR

LIQUID (BACK SIDE)

LIQUID

HOT GAS (OPTIONAL)

SUCTION

3/8" X 1 MOUNTING HOLES

AIR →

31 <sup>13</sup>/<sub>16</sub>

18 <sup>3</sup>/<sub>16</sub>

17 <sup>13</sup>/<sub>16</sub>

33 <sup>7</sup>/<sub>8</sub>

21 <sup>5</sup>/<sub>16</sub>

A

B

C

D

7/8" KNOCK OUT (BACKSIDE)

SUCTION (BACK SIDE)

1-1/4" - 11.5 NPT DRAIN FITTING

POWER AND CONTROL PANEL

EVAPORATOR COIL(S) INCHES										
SYSTEM	ITEM NO.	MODEL NO.	QTY.	# OF FANS	A	B	C	D	WEIGHT (LBS. EA.)	EER / NOZZLE @105°F LIQ. R448A/R407A
B1	-	CM6A549ADA	1	3	113-9/16	36	33	36	673	SER-C / G-6
B2	-	CM6A549ADA	1	3	113-9/16	36	33	36	673	SER-C / G-6

The diagram is divided into two main sections: 'FIELD POWER CONNECTION - SEE KE2 NOTE 3 (THIS END)' and 'KE2 OPPOSITE END WIRING (OPPOSITE END)'.

**Field Power Connection (Left):** Shows a terminal block (TB13) with terminals GND, L2N, L1, and S. Wires connect to 'FIELD WIRE GROUND', 'FIELD WIRE L2N', 'FIELD WIRED DRAIN LINE HEATER (FOR FREEZERS)', and 'FIELD WIRE L1'. A heater symbol is connected to L1. A switch (S) is connected to S. A motor/relay symbol (M) is connected to L2N and L1. A heater symbol (HTR) is connected to L1 and L2N. A switch (S) is connected to S.

**KE2 Opposite End Wiring (Right):** Shows a terminal block (TB13) with terminals GND, L2N, L1, and S. Wires connect to 'KE2 POWER IN "/>

[illegible]

NOTES:

SYSTEM B1 & B2 LEAD LAG SETUP - ALTERNATING EACH RUN CYCLE

SYSTEMS B1 & B2 SUPPLIED WITH REPLACEABLE SUCTION & LIQUID FILTER

OIL SEP & SUCTION ACCUM SHALL BE USED ON ALL SYSTEMS

EVAPS SUPPLIED WITH KE2 DEMAND DEFROST/LEAD LAG CONTROLLER FACTORY MOUNTED

[illegible]

ALL SYSTEMS SUPPLIED WITH HEATED AND INSULATED RECEIVER FOR LOW AMBIENT CONDITIONS FACTORY  
ALL EVAPORATOR COILS WILL REQUIRE POWER FROM A HOUSE CIRCUIT  
ALL COMPRESSORS AND CONDENSER CIRCUITS ARE SIZED TO OPERATE AT 95° F AMBIENT

ENGINEERING GUIDE SPECIFICATION  
NEXT-GEN II AIR-COOLED CONDENSING UNIT

THE REFRIGERATION PACKAGE SHALL BE A PRE-ENGINEERED AND FACTORY ASSEMBLED UNIT TRADE NAME "NEXT-GEN II", AS MANUFACTURED BY COLDZONE, A DIVISION OF HEAT TRANSFER PRODUCTS GROUP, 1810 VINEYARD AVE. ONTARIO, CA 91761. PHONE: (800) 772-2653, FAX: (714) 529-8503.

CONTRACTOR SHALL FURNISH AND INSTALL, WHERE SHOWN ON PLANS (2) COLDZONE U.L. APPROVED "NEXT-GEN II" AIR-COOLED CONDENSING UNIT WITH EVAPORATOR COIL. ALL UNIT SHALL BE ELECTRICALLY TESTED AND SHIPPED WITH A DRY NITROGEN HOLDING CHARGE AND READY FOR FIELD INSTALLATION. THE UNIT SHALL BE SUITABLE FOR OPERATION ON 208/230 VOLTS, 3 PHASE, 60 HERTZ POWER.

1. NEXT-GEN II CONSTRUCTION
  - A. ALL TUBING SHALL BE SECURELY SUPPORTED AND ANCHORED WITH CLAMPS.
  - B. THE PACKAGE SHALL BE MOUNTED ON A HEAVY DUTY GALVANIZED STEEL BASE.
  - C. AIR-COOLED CONDENSING UNIT SHALL HAVE AN APPROPRIATE STYLE COMPRESSOR WITH SUCTION AND DISCHARGE SERVICE VALVES. COMPRESSOR MOTOR SHALL BE HIGH TORQUE, HERMETIC INDUCTION TYPE, 1750 RPM AND SHALL BE PROTECTED AGAINST OVERLOAD, SINGLE PHASING AND LOCKED MOTOR CONDITION. THE UNIT SHALL BE PROVIDED WITH AIR COOLED CONDENSER COIL WITH STAGGERED TUBE DESIGN FOR GREATER THERMAL EFFICIENCY. THE COIL SHALL BE TESTED TO 400 PSI AND SHALL BE SELF DRAINING TO ASSURE EFFICIENT OPERATION AND OIL RETURN. THE CONDENSER FAN MOTOR SHALL BE INHERENTLY PROTECTED AND OIL-LEVEL LUBRICATED BALL BEARINGS. A FAN GUARD SHALL BE PROVIDED WITH EACH MOTOR. THE UNIT SHALL BE PROVIDED WITH A FUSIBLE PLUG LOCATED AT THE TOP OF ITS CAPACITOR. IT SHALL BE SUPPLIED WITH A FUSIBLE PLUG AND SHALL CONFORM TO U.L. OR ASME CODES AND SHALL BEAR THE APPROPRIATE LABEL OR STAMP. COMPRESSOR HIGH/LOW PRESSURE CONTROL SHALL BE INCLUDED WITH THE UNIT.
  - D. ALL INTERNAL PIPING SHALL BE PRE-PREPARED TO OUTSIDE OF ENCLOSURE WITH DRIER, SIGHT GLASS AND VIBRATION ELIMINATORS FOR SUCCTION LINES.
  - E. ENDS OF LINES SHALL BE CAPPED AGAINST CONTAMINATION AFTER THE UNIT IS COMPLETED. THESE CAPPED ENDS ARE TO BE OPENED ONLY AT FINAL CONNECTION OF THE PACKAGE TO FIXTURES.
2. EVAPORATOR COILS
  - A. EVAPORATOR COILS SHALL BE DIRECT EXPANSION TYPE FABRICATED OF COPPER TUBES WITH ALUMINUM FINS.
  - B. EVAPORATOR COILS SHALL BE PROVIDED WITH SO, ENO, VALVE, THERMOSTATIC EXPANSION VALVE, AND THERMOSTAT. PIPING AND WIRING SHALL BE CONFORM TO ALL APPLICABLE CODES. PIPING OR SUPPLIES WITH ECONET CONTROL PACKAGE INCLUDES ELECTRONIC EXPANSION VALVE, SUCTION PRESSURE TRANSDUCER, SUCCTION ENTERING AIR, COIL TEMP THERMISTORS AND LOCAL DISPLAY WITH PUSH BUTTON ADJUSTMENTS.

### GENERAL NOTES

1. GENERAL CONTRACTOR
  - A. CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND COORDINATE WITH OTHER TRADES.
  - B. GENERAL CONTRACTOR SHALL PREPARE THE PLATFORM, CURBED OPENINGS AND WEATHERPROOFING THE SAME AFTER INSTALLATION.
2. REFRIGERATION CONTRACTOR
  - A. THE COMPLETE SYSTEM SHALL BE EVACUATED WITH VACUUM PUMP.
  - B. CHARGE, TEST AND ADJUST EACH UNIT TO ASSURE PROPER OPERATION.
  - C. ALL COPPER TUBING TO BE REFRIGERANT GRADE A.C.R. OR TYPE "L".
  - D. SILVER SOLDER AND/OR SIL-FOS SHALL BE USED FOR ALL REFRIGERANT JOINTING. SOFT SOLDER IS NOT ACCEPTABLE.
  - E. ALL PIPING TO BE PRESSURE TESTED WITH NITROGEN AT 300 PSI. AFTER THE CONDENSING UNIT AND COIL HAVE BEEN CONNECTED, THE BALANCE OF THE SYSTEM SHALL BE LEAK TESTED WITH ALL VALVES OPEN.
  - F. REFRIGERATION CONTRACTOR TO PROVIDE AND INSTALL DRAIN LINE HEATER IN FREEZER TO BE CONNECTED BY ELECTRICAL CONTRACTOR.
3. ELECTRICAL CONTRACTOR
  - A. ELECTRICAL CONTRACTOR TO CONNECT DRAIN LINE HEATER IN FREEZER.
  - B. ELECTRICAL CONTRACTOR TO PROVIDE POWER FOR CONDENSING UNIT AND EVAPORATOR COIL. AS CALLED FOR IN THE WIRING DIAGRAM.
  - C. ALL ELECTRICAL WIRING AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE WIRING DIAGRAM AND LOCAL CODES.
4. PLUMBING CONTRACTOR
  - A. PLUMBING CONTRACTOR TO PROVIDE A.C.R. OR TYPE "L" COPPER DRAIN LINES FOR WALK-IN REFRIGERATION AND FREEZER, PITCHED 1/4" PER FOOT OF RUN. IN FREEZER, UNHEATED DRAIN LINE MUST BE OUTSIDE OF INSULATION TO PREVENT FREEZING. TRAP DRAIN LINE OUTSIDE OF REFRIGERATED SPACE TO AVOID ENTRANCE OF WARM AND MOIST AIR.
  - B. PLUMBING CONTRACTOR TO PROVIDE INDIVIDUAL DRAIN LINE FOR EACH EVAPORATOR UNLESS OTHERWISE CALLED FOR.
  - C. ALL PLUMBING INSTALLATION SHALL BE IN ACCORDANCE WITH LOCAL CODES.

REFRIGERATION ENGINEERING

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