GENERAL BUILDING REQUIREMENTS

PART 0 - CODE REFERENCES						
0.01	INTERNATIONAL BUILDING CODE, 2018 EDITION, WITH GEORGIA AMMENDMENTS (2020),(2022)					
0.02	INTERNATIONAL FIRE CODE, 2018 EDITION					
0.03	INTERNATIONAL PLUMBING CODE, 2018 EDITION, WITH GEORGIA AMMENDMENTS (2020), (2022), (2023)					
0.04	INTERNATIONAL MECHANICAL CODE, 2018 EDITION, WITH GEORGIA AMMENDMENTS (2020)					
0.05	INTERNATIONAL FUEL GAS CODE, 2018 EDITION, WITH GEORGIA AMMENDMENTS (2020), (2022)					
0.06	NATIONAL ELECTRICAL CODE, 2020 EDITION, WITH GEORGIA AMMENDMENTS (2021)					
0.07	INTERNATIONAL ENERGY CONSERVATION CODE, 2015 EDITION, WITH GEORGIA SUPPLEMENTS AND AMMENDMENTS (2020), (2022), (2023)					
0.08	INTERNATIONAL POOL AND SPA CODE, 2018 EDITION, WITH GEORGIA AMMENDMENTS (2020)					
0.09	GEORGIA ACCESSIBILITY CODE - GAC 120-3-20 - 1997 ADDITION					
0.10	NATIONAL FIRE PROTECTION ASSOCIATION 101 LIFE SAFETY CODE (LSC) - 2012 EDITION					
0.11	U.S. DEPARTMENT OF JUSTICE A.D.A STANDARDS FOR ACCESSIBLE DESIGN (ADA) - 2010 EDITION CHAPTER 120-3-3 RULES AND REGULATIONS FOR THE STATE MINIMUM FIRE STANDARDS IN GEORGIA					
ITEM	**ISSUE**	**CHAPTER/ARTICLE**	**N/A**	**ORDINANCE REQUIREMENT**	**ACTUAL**	**REMARKS**
PART 1 - ZONING REQUIREMENTS						
1.01	ZONING DISTRICT	CHAPTER 27			M (LIGHT INDUSTRIAL)	
1.02	LOT AREA	27 - SEC. 2.24.1 - TABLE 2.24		30,000 SF MIN.	+/- 3,753,465 SF	
1.03	MAXIMUM FLOOR AREA RATIO	27 - SEC. 2.24.1 - TABLE 2.24		80%		
1.04	BUILDING HEIGHT-NO. OF FLOORS	27 - SEC. 2.24.1 - TABLE 2.24		N/A	1 STORY	
1.05						
1.06	MINIMUM FRONT SETBACK	27 - SEC. 2.24.1 - TABLE 2.24		60 SF		
1.07	MINIMUM REAR SETBACK	27 - SEC. 2.24.1 - TABLE 2.24		30 SF		
1.08	MINIMUM SIDE SETBACK	27 - SEC. 2.24.1 - TABLE 2.24		20 SF		
1.09	OFF STREET LOADING	27 - SEC 6.1.14 - TABLE 6.5		3 FOR THE FIRST 99,000SF AND 1 FOR EACH ADDITIONAL 100,00SF; 4 REQUIRED		
1.10	OFF STREET PARKING	27 - SEC 6.1.3 - TABL 6.2		1 SPACE PER 2,500SF OF PRINCIPAL STRUCTURE; 174,000SF/2,500SF = 70 SPACES REQUIRED		
1.101	BICYCLE PARKING	27 - SEC. 6.1.17. A		1 SPACE PER 20 REQUIRED AUTOMOBILE PARKING SPACES 70 AUTOMOBILE PARKING SPACES/S0 = 4 SPACES REQUIRED		
PART 2 - LANDSCAPE REQUIREMENTS						
2.01	PERIMETER PARKING LOT LANDSCAPING	27 - SEC 5.4.4. C		(1) OVERSTORY DECIDUOUS SHADE TREE, OR THREE (3) UNDERSTORY OR THREE (3) EVERGREEN TREES, FOR EVERY FIFTY (50) LINEAR FEET		
2.02	INTERIOR PARKING LOT LANDSCAPING	27 - SEC 5.4.4. D		1 ISLAND PER 10 PARKING SPACES, 250 SF MIN. & 10% TOTAL PARKING LOT LANDSCAPED		
2.03	TRASH STORAGE AREA SCREENING	27 - SEC 5.4.6. B		FULLY SCREENED ON 4 SIDES; CAN INCORPORATE USING OPAQUE DEVICE TO SERVE AS GATE		
PART 3 - BUILDING REQUIREMENTS						
3.01	OCCUPANCY CLASSIFICATIONS AND USE	2018 IBC CH 3		MODERATE HAZARD STORAGE, GROUP S-1 BUSINESS AND UTILITY CLASSIFIED AS ACCESSORY OCCUPANCY		
3.02	SPECIAL DETAILED REQ'S BASED ON USE & OCCUPANCY	2018 IBC CH 4	X	--		--
3.03	GENERAL BUILDING HEIGHT AND AREA LIMITATIONS:	2018 IBC 5-503				
	ALLOWABLE BUILDING HEIGHT	2018 IBC TABLE 504.3		75'-0"	24'-0"	
	ALLOWABLE NUMBER OF STORIES	2018 IBC TABLE 504.4		3 STORIES	1 STORY	MEZZ NOT INCLUDED PER 505.2
3.04	MEZZANINES & EQUIPMENT PLATFORMS	2018 IBC 5-505		ONE-THIRD THE AREA OF THAT ROOM OR SPACE = 7,067 SF	911 SF	
3.05	BUILDING AREA:	2018 IBC TABLE 506.2				
	a) ALLOWABLE AREA FACTOR	2018 IBC 5-506.2		UNLIMITED - SEE REMARKS		UNLIMITED AREA BLDG PER 507.4
	b) SINGLE OCCUPANCY, ONE STORY BUILDINGS	2018 IBC 5-506.2.1		UNLIMITED - SEE REMARKS	22,111 SF	UNLIMITED AREA BLDG PER 507.4
	c) MIXED OCCUPANCY, ONE STORY BUILDINGS	2018 IBC 5-506.2.2	X			
	d) SINGLE OCCUPANCY, MULTISTORY BUILDINGS	2018 IBC 5-506.2.3	X			
	e) MIXED OCCUPANCY, MULTISTORY BUILDINGS	2018 IBC 5-506.2.4	X			
	d) FRONTAGE INCREASE	2018 IBC 5-506.3	X			
3.06	MIXED USE & OCCUPANCY:	2018 IBC 5-508				
	REQUIRED SEPARATION OF OCCUPANCIES	2018 IBC 5-508.2.4		NO SEPARATION REQUIRED BETWEEN ACCESSORY OCCUPANCIES AND THE MAIN OCCUPANY		NONE PROVIDED
3.07	TYPES OF CONSTRUCTION:	2018 IBC CH 6				
	CONSTRUCTION CLASSIFICATION	2018 IBC 6-602			TYPE II-B	
3.08	FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS:	2018 IBC 6-601		NON-COMBUSTIBLE	NON-COMBUSTIBLE	
	PRIMARY STRUCTURAL FRAME	2018 IBC TABLE 601(f)		0 HR	NO CHANGE	
	BEARING WALLS - EXTERIOR	2018 IBC TABLE 601(e,f)		2 HR	NO CHANGE	
	BEARING WALLS - INTERIOR	2018 IBC TABLE 601		0 HR	NO CHANGE	
	NON BEARING WALLS AND PARTITIONS - EXTERIOR	2018 IBC TABLE 601		0 HR	NO CHANGE	
	NON BEARING WALLS AND PARTITIONS - INTERIOR	2018 IBC TABLE 601(d)		0 HR	0 HR	
	FLOOR CONSTRUCTION AND ASSOCIATE SECONDARY MEMBERS	2018 IBC TABLE 601		0 HR	NO CHANGE	
	ROOF CONSTRUCTION AND ASSOCIATE SECONDARY MEMBERS	2018 IBC TABLE 601		0 HR	NO CHANGE	
3.09	FIRE RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE	2018 IBC TABLE 602		IF X>30= 0	0	
3.10	COMBUSTIBLE MATERIAL IN TYPES I & II CONSTRUCTION	2018 IBC 6-603	X	NA	COMPLIES	
3.11	COMBUSTIBLE MATERIAL IN TYPES III & IV CONSTRUCTION	2018 IBC 6-604	X			
3.12	BASEMENT CONSTRUCTION	2018 IBC 6-605	X			
3.13	FIRE AND SMOKE PROTECTION FEATURES:	2018 IBC CH 7				
	a) EXTERIOR WALLS	2018 IBC 7-705	X	NON-COMBUSTABLE MATERIALS, NO OPENING LIMIT		
	b) FIRE WALLS	2018 IBC 7-706	X			
	c) SHAFT ENCLOSURE	2018 IBC 7-713	X			
3.14	INTERIOR FINISHES:	2018 IBC CH 8				
	a) INTERIOR WALL AND CEILING FINISH REQ'S	2018 IBC TABLE 803.13				
	1) INT. EXIT STAIRS, RAMPS, & EXIT PASSAGEWAYS	2018 IBC TABLE 803.13		CLASS B	CLASS B	
	2) CORRIDORS & ENCLOSURES FOR EXIT ACCESS STAIRS AND RAMPS	2018 IBC TABLE 803.13		CLASS C	CLASS C	
	3) ROOMS & ENCLOSED SPACES(c)	2018 IBC TABLE 803.13		CLASS C	CLASS C	
	b) DECORATIVE MATERIALS AND TRIM	2018 IBC 8-806		CLASS C & CLASS II	CLASS C & CLASS II	
3.15	FIRE PROTECTION AND LIFE SAFETY SYSTEMS	2018 IBC CH 9				
	a) AUTOMATIC SPRINKLER SYSTEMS	2018 IBC 9-903		NOT REQUIRED	PROVIDED	SPACE IS SPRINKLED PER NFPA 13
PART 4 - EXIT REQUIREMENTS						
4.01	GENERAL MEANS OF EGRESS	2018 IBC 10-1003				
	a) CEILING HEIGHT	2018 IBC 10-1003.2		MIN. 7'-6"	MIN. 7'-6" PROVIDED	
	b) STAIR HEADROOM (EXCEPTION 4)	2018 IBC 10-1011.3	X	MIN. 7'-0"	NA	
	c) DOOR HEIGHT (EXCEPTION 5)	2018 IBC 10-1010.1.1		MIN. 6'-8"	7'-0" MIN. PROVIDED	
	d) RAMP HEADROOM (EXCEPTION 6)	2018 IBC 10-1012.5.2	X	MIN. 6'-8"	NA	
4.02	EGRESS BASED ON OCCUPANT LOAD	2018 IBC TABLE 1004		ACCESSORY STORAGE : 300 GROSS BUSINESS : 150 GROSS WAREHOUSE : 500 GROSS	REFER TO OCCUPANCY SCHEDULE SHEET G100	
4.03	MEANS OF EGRESS SIZING	2018 IBC 10-1005				
	a) STAIRWAYS	2018 IBC 10-1005.3.1.1	X			
	b) OTHER EGRESS COMPONENTS	2018 IBC 10-1005.3.2.1		377 X .15" = 56.6"	34" CLEAR X 10 DOORS = 340"	SPACE IS SPRINKLERED PER NFPA 13
4.04	NUMBER OF EXITS AND EXIT ACCESS DOORWAYS	2018 IBC 10-1006		2 EXITS REQUIRED EACH FROM BUSINESS AND WAREHOUSE 1 EXIT REQUIRED FROM MEZZANINE PER TABLE 1006.2.1	B (BUISNESS)= 2 DOORS S-1 (WAREHOUSE)= 3 DOORS	
4.05	MINIMUM WIDTH OF DOORS	2018 IBC 10-1010		32" CLEAR	34" MIN. CLEAR	
	a) DIRECTION OF SWING	2018 IBC 10-1010.1.2.1		DIRECTION OF TRAVEL W. OCCUPANT LOAD OVER 50	COMPLIES	
4.06	STAIRWAYS	2018 IBC 10-1011				
	a) WIDTH & CAPACITY	2018 IBC 10-1011.2		44" MIN.		
	b) STAIR TREADS & RISERS	2018 IBC 10-1011.5		7" RISER, 11" TREAD		
	c) STAIRWAY LANDING	2018 IBC 10-1011.6		MATCH STAIR WIDTH		
4.07	EXIT ACCESS TRAVEL DISTANCE	2018 IBC 10-1017		BUSINESS (B)= 300(c) FT. W. SPRINKLER STORAGE (S-1)= 400(c) FT. W. SPRINKLER	SEE SHEET G-100	SPACE IS SPRINKLERED PER NFPA 13
4.08	CORRIDORS	2018 IBC 10-1020				
	a) WIDTH & CAPACITY	2018 IBC 10-1020.2		36" MIN.	36" MIN. PROVIDED	
	b) DEAD ENDS	2018 IBC 10-1020.4.2		50' W. SPRINKLER	SEE SHEET G-100	

CROWN MORELAND AVENUE MAINTENANCE SHOP

2750 MORELAND AVENUE
ATLANTA, GEORGIA

ISSUED FOR PERMIT

DIRECTORY

OWNER

ARCHITECT

OKW ARCHITECTS LLC.
600 W JACKSON BLVD., SUITE 250
CHICAGO, IL 60661
P: 312-798-7700

CIVIL ENGINEER

POND
3500 PARKWAY LANE, SUITE 500
PEACHTREE CRONERS, GA 30092
C: KEVIN HENDRIX (EOR)
DEKALB COUNTY DEVELOPMENT FILE A/P #1245831

STRUCTURAL ENGINEER

JAMES F TURNER ENGINEERS
8340 MEADOW ROAD
DALLAS, TX 75231
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MEP-FP ENGINEER

JAMES F TURNER ENGINEERS
8340 MEADOW ROAD
DALLAS, TX 75231
P: 214-750-2900

GENERAL CONTRACTOR

SCOPE OF WORK

SCOPE OF WORK WITHIN PERMIT SET INCLUDES THE FOLLOWING:

CONSTRUCTION OF A NEW 22,111 SF 1-STORY SPECULATIVE SHOP FACILITY. SCOPE OF WORK SHALL INCLUDE GROUND IMPROVEMENTS, CONVENTIONAL FOUNDATION DESIGN, METAL ENGINEERED BUILDING, ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION WORK. ALL ADDITIONAL WORK ELEMENTS TO BE DESIGN PROVIDED UNDER SEPARATE WORK ORDER AND PERMIT.

ARCHITECT'S STATEMENT OF COMPLIANCE

I HAVE PREPARED, OR CAUSED TO BE PREPARED UNDER MY DIRECT SUPERVISION, THE ATTACHED ARCHITECTURAL PLANS AND SPECIFICATIONS AND STATE THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF AND TO THE EXTENT OF MY CONTRACTUAL OBLIGATION, THEY ARE IN COMPLIANCE WITH THE DEKALB COUNTY ZONING ORDANCE.

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME AND TO THE BEST OF MY PROFESSIONAL KNOWLEDGE THEY COMPLY WITH THE DEKALB COUNTY BUILDING CODE.

SIGNED:

DATE: 08/07/2025
EXPIRATION DATE: 06/30/2027

ENERGY CODE REQUIREMENTS

PER 2018 IECC

PROJECT LOCATION	
ALABAMA - DEKALB COUNTY: CLIMATE ZONE 3A	
ENVELOPE COMPONENT	**CODE REQUIREMENT**
ROOFS- METAL BUILDINGS	R-19 + R-11 LS
WALLS ABOVE GRADE- MASS	R-7.6 ci
WALLS ABOVE GRADE- METAL BUILDING	R-13 + R-6.5 ci
WALLS BELOW GRADE	NR
FLOORS- JOIST/FRAMING	R-30
SLAB ON GRADE FLOORS- UNHEATED SLAB	NR
OPAQUE DOORS- NON-SWINGING	R-4.75
FENESTRATION- FIXED	U-0.46
FENESTRATION SHGC	N: 0.33 MAX; SEW: 0.25 MAX
ENTRANCE DOORS	U-0.77
AIR LEAKAGE FOR FENESTRATIONS	WINDOWS, SWINGING DOORS= 0.20 STOREFRONT= 0.06 COMMERCIALLY GLAZED SWINGING ENTRANCE DOORS= 1.00 ROLLING DOORS= 1.00

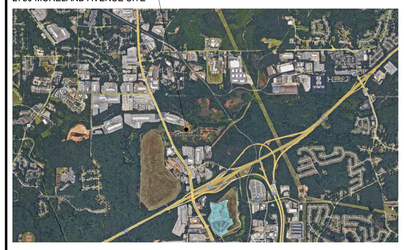
1. ALL EXTERIOR ENVELOPE COMPONENTS SHALL MEET OR EXCEED THE PRESCRIPTIVE REQUIREMENTS ENUMERATED ABOVE.
2. PORTIONS OF BUILDINGS THAT DO NOT CONTAIN CONDITIONED SPACE NEED NOT COMPLY WITH THE BUILDING THERMAL ENVELOPE PROVISIONS OF SECTION C402, PROVIDED THEY ARE SEPARATED FROM THE REMAINDER OF THE BUILDING BY THERMAL BUILDING ENVELOPE ASSEMBLIES COMPLYING WITH SECTION C402 [C402.1.1]. AREA OF NON-CONDITIONED SPACE IN THIS BUILDING IS THE AREA DENOTED AS STORAGE (S-2) OCCUPANCY (INLCUDING ELECTRICAL ROOM AND FIRE RISER ROOMS). EXTERIOR AND INTERIOR WALLS AT OFFICE PERIMETER ADHERE TO ENERGY CODE

SHEET INDEX

SHEET NO.	SHEET TITLE	ISSUED FOR: BID	ISSUED FOR: PERMIT
GENERAL			
G000	COVER SHEET	X	X
G100	LIFE SAFETY PLANS AND EGRESS MATRIX	X	X
G200	GENERAL NOTES	X	X
G201	PROJECT CRITERIA	X	X
G202	PROJECT CRITERIA	X	X
G203	PROJECT CRITERIA	X	X
G204	PROJECT CRITERIA	X	X
ARCHITECTURAL			
A010	ABBREVIATIONS AND LEGENDS	X	X
A020	PUBLIC AND COMMON AREA ACCESSIBILITY	X	X
A021	PUBLIC AND COMMON AREA ACCESSIBILITY	X	X
A030	PARTITION TYPES	X	X
A040	DOOR/FRAME TYPES, SCHEDULES AND DETAILS	X	X
A050	WINDOW TYPES AND GLAZING SCHEDULE	X	X
A051	OPENING DETAILS	X	X
A101	FLOOR PLANS	X	X
A111	REFLECTED CEILING PLAN	X	X
A200	BUILDING ELEVATIONS	X	X
A250	BUILDING SECTIONS	X	X
A300	EXTERIOR WALL SECTIONS	X	X
A400	ENLARGED OFFICE AND RESTROOM PLANS	X	X
A401	INTERIOR ELEVATIONS	X	X
A402	FINISH PLAN AND SCHEDULES	X	X
A500	EXTERIOR DETAILS	X	X
A502	EXTERIOR PLAN DETAILS	X	X
A800	ENLARGED DETAILS		X
STRUCTURE			
S000	STRUCTURAL GENERAL NOTES	X	X
S100A	FOUNDATION ISOMETRIC	X	X
S100B	FOUNDATION PLAN	X	X
S200	FOUNDATION DETAILS	X	X
S201	FOUNDATION DETAILS	X	X
S202	FOUNDATION DETAILS	X	X
S300	MEZZANINE FRAMING PLAN & DETAILS	X	X
MECHANICAL			
M001	MECHANICAL GEN. NOTES & SPECIFICATIONS	X	X
M101	MECHANICAL PLAN - OVERALL	X	X
M102	ENLARGED MECHANICAL FLOOR PLANS	X	X
M201	MECHANICAL SCHEDULES & DETAILS	X	X
ELECTRICAL			
E101	POWER PLAN - SHOP	X	X
E102	ENLARGED POWER PLANS	X	X
E201	LIGHTING PLAN - SHOP	X	X
E202	ENLARGED LIGTHING PLANS	X	X
E301	HVAC POWER PLAN - SHOP	X	X
E302	ENLARGED HVAC POWER PLANS	X	X
E401	FIRE ALARM PLAN - SHOP	X	X
E402	ENLARGED FIRE ALARM PLANS	X	X
E501	ELECTRICAL PANELS	X	X
E601	ELECTRICAL DETAILS	X	X
E701	ELECTRICAL SPECIFICATIONS	X	X
PLUMBING			
P100	PLUMBING SYMBOLS, GENERAL NOTES, & SPECIFICATIONS	X	X
P101	WASTE & VENT PLAN	X	X
P201	WATER PLAN	X	X
P301	GAS CONDENSATE & COMPRESSED AIR PLAN	X	X
P302	PLUMBING PLAN - MEZZANINE	X	X
P401	WASTE AND VENT RISER	X	X
P402	WATER RISER	X	X
P501	PLUMBING DETAILS AND SCHEDULES	X	X

VICINITY MAP

2750 MORELAND AVENUE SITE



CROWN ENTERPRISES LLC

STATE OF GEORGIA
JON TALTY
CERTIFICATE NO. RA 017098
REGISTERED ARCHITECT

NO.:	ISSUED FOR:	DATE
1	PERMIT	09/27/2024
	BID	09/04/2025

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CROWN MORELAND AVENUE MAINTENANCE SHOP

2750 MORELAND AVENUE
ATLANTA, GEORGIA

COVER SHEET

DRAWN BY: BD CHECKED: ES/NS

DATE: 01/03/2024
SHEET NO.: G000
PROJ. NO.: 22129

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OCCUPANCY LOAD

USE	FLOOR AREA PER OCCUPANT: SF PER PERSON	FLOOR AREA PER OCCUPANT: OCCUPANCY SF TYPE	AREA	DESIGN OCCUPANT LOAD	ACTUAL OCCUPANT LOAD	COMMENTS
B - BUSINESS						
BUSINESS (B)	100	GROSS	1740 SF	9	2	
			1740 SF	9	2	
S-1 - MODERATE-HAZARD STORAGE						
WAREHOUSE (S-1)	500	GROSS	20291 SF	41	4	
			20291 SF	41	4	
U - UTILITY AND MISC						
UTILITY (U)	300	GROSS	80 SF	1	0	
			80 SF	1	0	
Grand total			22111 SF	51	6	

NOTES:
1. DESIGN OCCUPANT LOAD UTILIZED TO CALCULATE LIFE SAFETY PATHWAYS, EXIT QUANTITIES AND SIZING.
2. ACTUAL OCCUPANT LOAD UTILITZED TO CALCULATE MINIMUM PLUMBING FIXTURE COUNTS ONLY.

PLUMBING FIXTURE REQUIREMENTS

ITEM	FIXTURE RATIO (BUSINESS (B) & UTILITIES (U)) USE CLASSIFICATION (BUSINESS)	MINIMUM NUMBER REQUIRED (BUSINESS (B) & UTILITIES (U))		TOTAL NUMBER PROVIDED (BUSINESS (B), UTILITIES (U) & STORAGE (S-1))
OCCUPANTS	N/A	MALE (10 OCCUPANTS)[1]	FEMALE (10 OCCUPANTS)[1]	2 UNISEX:
WATER CLOSET	1 PER 25 OCC < 50 OCC; 1 PER 50 OCC > 50 OCC	1[3]	1	4 TOTAL (2 WC, 2 URINALS)[1,2]
LAVATORIES	1 PER 40 OCC < 80 OCC; 1 PER 80 OCC > 80 OCC	1	1	2
DRINKING FOUNTAINS	1 PER 1000 OCCUPANTS	1[4]		1[3]
SERVICE SINKS	1	1		1
ITEM	**FIXTURE RATIO (STORAGE (S-1)) USE CLASSIFICATION (STORAGE)**	**MINIMUM NUMBER REQUIRED (STORAGE (S-1))**		
OCCUPANTS	N/A	MALE (35 OCCUPANTS)[2]	FEMALE (35 OCCUPANTS)[2]	
WATER CLOSET	1 PER 100 OCCUPANTS	1	1	
LAVATORIES	1 PER 100 OCCUPANTS	1	1	
DRINKING FOUNTAINS	1 PER 1000 OCCUPANTS	INCLUDED IN BUSINESS		
SERVICE SINKS	1	INCLUDED IN BUSINESS		

NOTES:
1. BUSSINESS (B) AND UTILITY (U) PORTION OF THE FACILITY HAS BEEN CALCULATED VIA THE ACTUAL OCCUPANT LOAD. ACTUAL OCCUPANT LOAD CERTIFIED BY OWNERSHIP TO BE NO GREATER THAN 20 TOTAL EMPLOYEES AT ANY GIVEN TIME.
2. WAREHOUSE (S-1) PORTION OF THE FACILITY HAS BEEN CALCULATED VIA THE ACTUAL OCCUPANT LOAD. ACTUAL OCCUPANT LOAD CERTIFIED BY OWNERSHIP TO BE NO GREATER THAN 70 TOTAL EMPLOYEES AT ANY GIVEN TIME.
3. PER 2018 IPC 410.4, ...WHERE DRINKING FOUNTAINS ARE REQUIRED, WATER DISPENSERS SHALL BE PERMITTED TO BE SUBSTITUTED FOR NOT MORE THAN 50 PERCENT OF THE REQUIRED NUMBER OF DRINKER FOUNTAINS.

PER 2018 IPC

EGRESS DISTANCES

PATH NAME	EGRESS DISTANCE
PATH 1A	4' - 11"
PATH 1A	115' - 3"
PATH 1A	120' - 2"
PATH 1B	12' - 4"
PATH 1B	101' - 7"
PATH 1B	113' - 11"
PATH 2	22' - 9"
PATH 2	23' - 1"
PATH 2	28' - 9"
PATH 2	96' - 8"
PATH 2	171' - 3"

EGRESS LEGEND

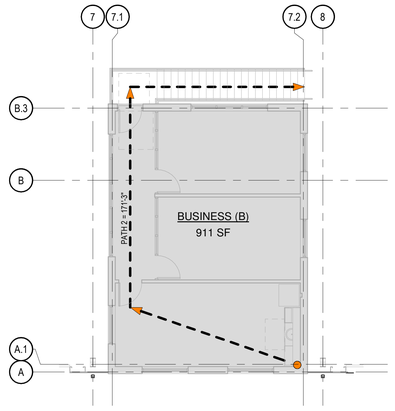
1-HR RATED WALL
2-HR RATED WALL
3-HR RATED WALL
4-HR RATED WALL

PATH LABEL
PATH 1A
100'-0"
PATH OF TRAVEL
PATH DISTANCE

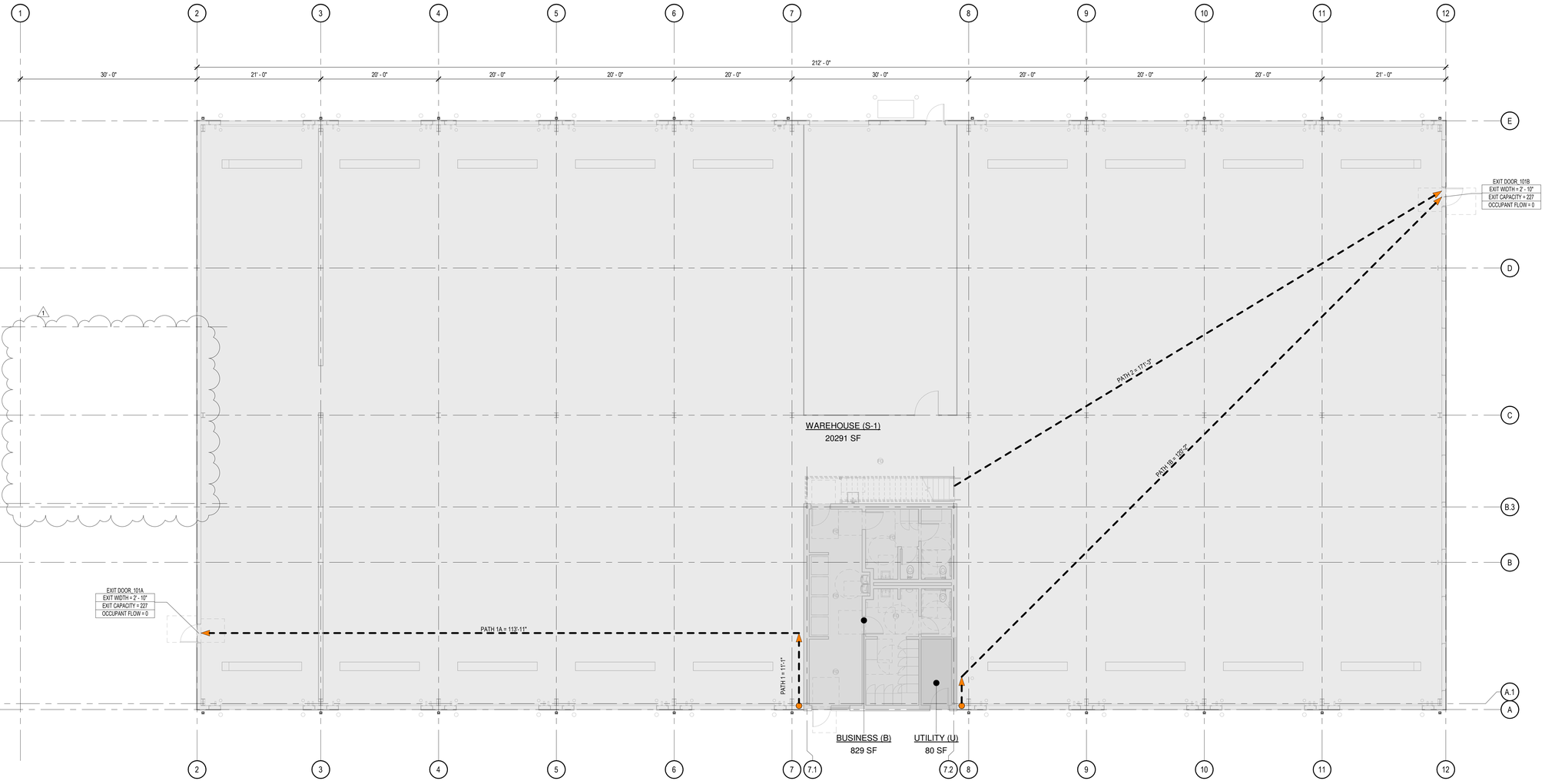
EXIT DOOR_LABEL
EXIT WIDTH
EXIT CAPACITY
OCCUPANT FLOW
DOOR/STAIR EGRESS DATA

USE TYPE LEGEND

BUSINESS
WAREHOUSE
ACCESSORY STORAGE



E8 / G100 LIFE SAFETY PLAN @ MEZZANINE
SCALE: 1/8" = 1'-0"



E9 / G100 LIFE SAFETY PLAN @ LEVEL TERMINAL
SCALE: 1/8" = 1'-0"

CROWN ENTERPRISES LLC

STATE OF GEORGIA
JON TALTY
CERTIFICATE NO. RA 017098
REGISTERED ARCHITECT

NO.	ISSUED FOR:	DATE
1	PERMIT	06/27/2025
	BID	06/04/2025

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CROWN MORELAND AVENUE MAINTENANCE SHOP

2750 MORELAND AVENUE
ATLANTA, GEORGIA

LIFE SAFETY PLANS AND EGRESS MATRIX

DRAWN BY: BD CHECKED: ES/NS

DATE: 01/03/2024

SHEET NO.: G100

PROJ. NO.: 22129

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CONSTRUCTION NOTES

1. CONTRACTOR SHALL READ AND BE FAMILIAR WITH THESE NOTES IN THEIR ENTIRETY. CONTRACTOR SHALL USE "ISSUE FOR CONSTRUCTION" DOCUMENTS FOR ALL WORK.
2. ALL MATERIALS, METHODS OF INSTALLATION, AND FINISHING OF CONSTRUCTION SYSTEMS (PARTITONS, CEILING, DOORS, FRAMES, FLOORS, ETC.) SHALL CONFORM TO THE MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS FOR THE EXPECTED USE.
3. ALL EXIT DOORS SHALL BE READILY OPENED FROM THE SIDE FROM WHICH EGRESS IS TO BE MADE WITHOUT USE OF KEY OR SPECIAL KNOWLEDGE. ALL EXIT DOORS SHALL HAVE ALL HARDWARE NECESSARY TO SATISFY THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT.
4. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR BRACING OF PARTITION WALLS AND DOOR OPENINGS AS REQUIRED.
5. ALL PARTITION ENDS TO BE FLUSH AND STRAIGHT WITH METAL CORNER BEADS. CEMENT, TAPE, AND BLEND DRYWALL PARTITION ENDS.
6. GC SHALL, IN THE WORK OF ALL TRADES, PERFORM ANY AND ALL CUTTING, PATCHING, REPAIRING, RESTORING AND THE LIKE NECESSARY TO COMPLETE THE WORK AND TO RESTORE ANY DAMAGED OR AFFECTED SURFACES RESULTING FROM THE WORK OF THIS CONTRACT TO THEIR ORIGINAL CONDITION TO THE SATISFACTION OF THE ARCHITECT. ALL PATCHING AND REPAIRS SHALL RETURN BUILDING TO "LIKE NEW" CONDITION.
7. WHERE NEW WORK CONNECTS WITH EXISTING, THE CONTRACTOR SHALL DO ALL NECESSARY CUTTING, FITTING, AND PATCHING. HE SHALL FURNISH ALL NECESSARY LABOR AND MATERIALS FOR THIS WORK, WHETHER OR NOT SHOWN AND/ OR SPECIFIED. ALL CONSTRUCTION TO REMAIN SHALL BE PATCHED, REPAIRED, AND PROPERLY CONSTRUCTION SO AS TO LEAVE NO EVIDENCE OF REMODELING AND REMOVAL WORK.
8. ALL NEW WALLS ARE TO BE LEVEL WITH EXISTING ADJACENT WALLS AND CONDITIONS UNLESS NOTED OTHERWISE.
9. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL HARDWARE WITH OTHER TRADES.
10. THE HARDWARE SUPPLIES SHALL BE RESPONSIBLE FOR PROVIDING THE PROPER LOCK CYLINDERS AS REQUIRED TO CONFORM TO THE BUILDING'S MASTER KEY SYSTEM. KEYING OF THE LOCKS WITHIN THE TENANT'S SPACE SHALL BE COORDINATED WITH THE TENANT PRIOR TO KEYING CYLINDERS
11. THE HARDWARE SUPPLIER SHALL FURNISH THE DOOR AND FRAME MANUFACTURER'S WITH THE NECESSARY TEMPLATES AND SPECIFICATIONS TO ENSURE THE PROPER INSTALLATION OF HARDWARE
12. ALL BUILT-IN PLUMBING FIXTURES TO BE SUPPLIED AND INSTALLED BY PLUMBING CONTRACTOR.
13. ALL NON BUILT-IN PLUMBING FIXTURES TO BE SUPPLIED AND INSTALLED BY PLUMBING CONTRACTOR.
14. CUT OPENINGS IN GYP. BD. FOR ELECTRICAL OUTLETS, PIPING, DUCTOWKR, AND OTHER PENETRATIONS. MAINTAIN CLOSE TOLERANCES (NOT TO EXCEED 1/4") SO THAT EDGES WILL BE COVERED BY PLATES AND ESCUTCHEONS. CUT BOTH FACE AND BACK PAPER. DO NOT INSTALL ELECTRICAL OUTLETS BACK-TO-BACK ON OPPOSING SIDES OF PARTITIONS.
15. ALL NEW CONSTRUCTION INTERSECTING ANY RATED CONSTRUCTION SHALL BE INSTALLED SO AS TO MAINTAIN EXISTING CONSTRUCTION RATING WITH INDUSTRY APPROVED MATERIALS & STANDARDS (FIRE SAFING, WRAP, DAMPERS, ETCL.)
16. GC SHALL VERIFY EXACT DIMENSIONS WITH EQUIPMENT MANUFACTURERS. GC SHALL VERIFY ALL SIZES AND LOCATIONS OF DUCT OPENINGS BEFORE INSTALLATION AND VERIFY DISCREPANCIES WITH THE ARCHITECT, IF ANY.
17. PARTITIONS SHALL BE DIMENSINOED FROM GYP. BD. TO GYP. BD. UNLESS OTEHRWISE NOTED. DETAILS GOVERN.
18. DIMENSIONS SHOWN ON PLANS ARE TO FACE OF EXTERIOR MASONRY, CONCRETE COLUMN OR GRID LINES AND FACE OF GWB UNLESS OTEHRWISE NOTED OR DETAILED. HEIGHTS ARE DIMENSIONED FROM TOP OF FINISHED FLOOR. GC SHALL NOT ADJUST DIMENSIONS MARKED AS "CLEAR", "CLR", OR "HOLD" WITHOUT ACCEPTANCE FROM THE ARCHITECT.
19. MINIMUM DIMENSION FROM ANY CORNER OF WALL TO FRAMING STUD AT DOOR JAMB OPENING SHALL BE 4" UNLESS OTHERWISE NOTED (UON)
20. ALL EXTERIOR WALL OPENINGS, FLASHING, COUNTER FLASHING, COPING AND EXPANSION JOINTS SHALL BE WATERPROOF.
21. CAULKING AND SEALANTS: ALL OPEN JOINTS, PENETRATIONS AND OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL BE SEALED, CAULKED, GASKETED, AND/OR WEATHERSTRIPPED TO LIMIT AIR LEAKAGE TO MEET CODE REQUIREMENTS.
22. USE ACOUSTICAL SEALANT AROUND ALL PIPES, DUCTS, CONDUITS, OUTLETS, SWITCHES, ETC. ON BOTH SIDES OF CROSSING/PENETRATING WALLS WITH THERMAL AND ACOUSTIC INSULATION.
23. ALL GWB SHALL BE 5/8" TYPE 'X', UNLESS NOTED OTHERWISE. PROVIDE DRYWALL TRIM BEAD AT ALL EXPOSED EDGES AND CORNERS. GC SHALL VERIFY THAT DEMISING WALLS EXTEND TO STRUCTURE ABOVE AND ALL PENETRATIONS ARE SEALED TIGHT, AS REQUIRED BY AUTHORITY HAVING JURISDICTION. GC SHALL PROVIDE ALL WORK REQUIRED TO CORRECT DEFICIENT CONDITIONS.
24. THE GC SHALL PROVIDE CAULK JOINTS WHERE GWB MEETS THE FLOOR OR ROOF DECK. PACK FLUTES AT DECK.
25. ALL JOINTS IN GWB WALLS SHALL BE FINISHED WITH PAPER TAPE 4" WIDE AND THREE COATS OF VINYL, DRY OR PREMIXED JOINT COMPOUND. ALL OUTSIDE CORNERS SHALL BE FINISHED WITH METAL CORNER BEADS, TAPED AND SPACKLED, GYP. BOARD FINISH: LEVEL: 4.
26. THE GC SHALL LEAVE NO GAPS AND FILL SOLID TO PIPING AND DUCTWORK TO MAINTAIN THE STRUCTURAL INTEGRITY OF DEMISING WALLS AND MAINTAIN A MINIMUM OF ONE HOUR FIRE SEPARATION AS REQUIRED.
27. ALL JOINTS BETWEEN MATERIALS TO BE TIGHT AND CONSTRUCTED IN A NEAT WORKMANLIKE MANNER.
28. CONSULT BUILDING UTILITY PLANS AND STRUCTURAL DRAWINGS BEFORE SAW CUTTING/CHOPPING OR CORE DRILLING CONCRETE STRUCTURE.
29. ALL STRUCTURAL FRAMING, HANGERS, CHANNELS, RODS, AND OTHER MISCELLANEOUS SUPPORT SHTEEL SHALL BE PROVIDED BY THE GC AS NECESSARY FOR PROPER SUPPORT OF SUSPENDED/ SUPPORTED EQUIPMENT AND SHALL BE FASTENED TO STEEL, CONCRETE, OR MASONRY.
30. GC TO PROVIDE ACCESS PANELS AS REQUIRED THROUGHOUT SPACE INCLUDING EQUIPMENT ACCESSIBILITY, DRAIN CLEANOUTS, AND J BOXES. ANY ACCESS PANELS REQUIRED BUT NOT SHOWN ON DRAWINGS NEED TO BE COORDINATED AND IDENTIFIED TO ARCHITECT PRIOR TO WORK.
31. ALL NEW PARTITINO CONSTRUCTIN ENGAGING EXISTING EXTERIOR WALLS, COLUMNS, OR MULLIONS SHALL BE JOINED WITH RESILIENT FASTENERS. A 1" X 3" X 1/2" THICK COMPRESSIBLE NEOPRENE GASKET SHALL BE INSTALLED BETWEN METAL STUD AND EXISTING CONSTRUCTION. PARTITIN EDGES SHALL BE USG #200-B METAL CASING TRIM.
32. INTERIOR COLUMNS SHALL BE JOINTED IN THE SAME MANNER S SPECIFIED FOR EXTERIOS WALLS. WHERE PARTITIONS ARE TO ALIGN WITH COLUMN FACE(S), GYPSUM BOARD SHALL BE LAMINATED DIRECTLY TO COLUMN FINISH (ALL SIDES) AS REQUIRED TO AVOID FUTURE CRACKING.
33. ANY EXISTING PARTITION THAT IS NOT SHOWN ON PLANS IS TO BE DEMOLISHED NAD REMOVED.
34. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ASSOCIATED DOCUMENTS AS NECESSARY TO INSTALL WORK.
35. ALL NEW MECHANICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ALL APPLICABLE CODES.
36. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF EXISTING DUCTWORK, GRILLES, ETC. AS NECESSARY TO ACCOMMODATE NEW WORK.
37. THE MECHANICAL CONTRACTOR SHALL CHECK AND REPAIR FOR PROPER OPERATION ALL EXISTING TO REMAIN MECHANICAL EQUIPMENT INCLUDING VAV BOXES AND FAN POWERED HEATERS.
38. THE MECHANICAL CONTRACTOR SHALL CLEAN ALL DUCTWORK SERVING THE TENANT AREA AND ALL GRILLES, DIFFUSERS, THERMOSTATS, AND EXPOSED MECHANICAL EQUIPMENT.
39. NEW DIFFUSERS, GRILLES, AND OTHER EQUIPMENT SHALL BE BUILDING STANDARD EXCEPT WHERE NOTED OTHERWISE. EXISTING DIFFUSERS AND GRILLS TO REMAIN SHALL BE CLEANED AND REPAIRED AS NECESSARY TO "LIKE NEW" CONDITION.
40. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR BLOCKING OFF SUPPLY AND RETURN GRILLES, DIFFUSERS, AND DUCTS TO KEEP DUST FROM ENTERING INTO THE BUILDING SYSTEM DURING CONSTRUCTION.
41. INSPECT EXISTING CONDITIONS OF WORK AREA INCLUDING ELEMENTS SUBJECT TO MOVEMENT OR DAMAGE DURING CUTTING AND PATCHING. AFTER UNCOVERING WORK, INSPECT CONDITIONS AFFECTING INSTALLATION OF NEW MATERIALS AND WORK.
42. CONTRACTORS TO VERIFY ALL CONDITIONS AND DIMENSIONS AS THEY EXIST IN THE FIELD. NO EXTRA COMPENSATION TO CONTRACTORS WILL OCCUR DUE TO LACK OF FIELD VERIFICATION PRIOR TO BIDDING OR CONSTRUCTION.
43. EXECUTE CUTTING AND DEMOLITION BY METHODS WHICH WILL PREVENT DAMAGE TO OTHER WORK, AND WILL PROVIDE PROPER SURFACES TO RECEIVE INSTALLATION OF REPAIRS AND NEW WORK. EXECUTE FITTING AND ADJUSTMENT OF MATERIALS TO PROVIDE FINISH INSTALLATION TO COMPLY WITH TOLERANCES AND FINISHED SPECIFIED.
44. RESTORE WORK WHICH HAS BEEN CUT OR REMOVED; INSTALL NEW MATERIALS TO PROVIDE COMPLETE WORK IN ACCORDANCE WITH REQUIREMENTS OF CONTRACT DOCUMENTS.
45. THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE BEFORE FABRICATION ANY MATERIAL AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.
46. "MATCH EXISTING" INDICATES THAT THE GENERAL CONTRACTOR SHALL MATCH ANY EXISTING CONSTRUCTION AS NOTED IN THE DOCUMENTS AND DRAWINGS. THE GENERAL CONTRACTOR SHALL PROVIDE TO THE ARCHITECT/OWNER/TENANT THE EXACT MATERIAL PROPOSED FOR USE FOR REVIEW PRIOR TO FABRICATION.
47. ALL WORK WHICH EFFECTS THE BASE BUILDING SHELL SHALL BE DONE IN ACCORDANCE WITH THE WARRANTY REQUIREMENTS OF THE EXISTING SYSTEMS OR MATERIALS AS NECESSARY TO MAINTAIN THE WARRANTY OF THOSE ELEMENTS.
48. SHOP DRAWINGS OF MODIFICATIONS TO THE EXISTING ROOFING AND STOREFRONT SHALL BE SUBMITTED TO THE WARRANTY PROVIDER FOR APPROVAL. A LETTER FROM THE WARRANTY PROVIDER MUST BE SUBMITTED TO THE ARCHITECT STATING THAT WORK SHOWN WILL NOT REDUCE OR MAKE VOID THE EXISTING WARRANTY. SEE BELOW FOR CONTACT INFORMATION OF THE BASE BUILDING CONTRACTORS FOR REFERENCE.
49. THE CONTRACTOR SHALL EXAMINE CONTRACT DOCUMENTS COVERING ALL WORK OF EACH TRADE & BECOME ACQUAINTED WITH ENTIRE PROJECT TO ACHIEVE COORDINATED, EFFICIENT AND TIMELY PERFORMANCE OF WORK. PROVIDE ALL WORK AND MATERIAL OF EACH TRADE NECESSARY FOR RECEIVING, EXECUTING AND COMPLETING WORK COMING IN CONTACT WITH EACH TRADE. NO EXTRA CHARGE OR COMPENSATION IS ALLOWED ON ACCOUNT OF ADDITIONAL WORK RESULTING FROM LACK OF COORDINATION.
50. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS AND FIELD DIMENSIONS, PRIOR TO THE START OF ANY WORK OR ORDERING MATERIALS, AND MUST ADAPT HIS WORK TO ACTUAL CONDITIONS IN A MANNER APPROVED BY THE ARCHITECT AND OWNER'S REPRESENTATIVE. FAILURE TO CONTACT THE ARCHITECT OR OWNER'S REPRESENTATIVE DOES NOT RELIEVE THE CONTRACTOR OF ANY LIABILITY.
51. CONTRACTOR TO PROPOSE A SCHEDULE AND SEQUENCING FOR WHEN AND HOW THE WORK WILL BE DONE. CONTRACTORS SCHEDULE TO INCLUDE SCHEDULING OF ALL ITEMS PROVIDED BY OTHERS SUCH AS EQUIPMENT, FURNITURE, SIGNAGE, ETC. SCHEDULE TO BE APPROVED BY BLDG MANAGEMENT/TENANT/ARCHTIECT PRIOR TO THE START OF ANY WORK.
52. THE GENERAL CONTRACTOR SHALL REVIEW THE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR RELATED WORK WITH THE PARTIES AND TRADES CONCERNED, TO AVOID CONFLICTS AND FUTURE CLAIMS. THE DRAWINGS IN THESE PARTICULAR DISCIPLINE(S) DOCUMENTS SHALL BE VERIFIED WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO CONSTRUCTION AND/OR ARCHITECT REVIEW.
53. CONTRACTOR WILL MAINTAIN ALL WINDOW AND DOOR CLOSURES DURING THE COURSE OF THE PROJECT. NO WINDOW OPENINGS WILL BE LEFT OPEN OVERNIGHT. COORDINATE ACCEPTABLE COVERINGS WITH OWNER. CONTRACTOR WILL ONLY REMOVE THOSE WINDOWS THAT CAN BE REPLACED WITHIN THE SAME WORKING DAY, IF POSSIBLE. COORDINATE WITH OWNER OR OWNER'S REPRESENTATIVE.
54. GEMERAL CONTRACTOR MUST PROVIDE COMPLETE TEMPORARY PARTITION ENCLOSURE OF WORK AREAS WITHOUT COMPROMISING LIFE SAFETY OF THE OCCUPANTS OF THE BUILDING. CONTRACTOR TO COORDINATE WITH LOCAL BUILDING AND FIRE AUTHORITIES THAT HAVE JURISDICTION OVER THE AREA OF WORK AND OBTAIN OWNER APPROVAL PRIOR TO ERECTING TEMPORARY PARTITIONS OR OTHER TEMPORARY CONSTRUCTION.
55. TEMPORARY ENCLOSURES OF THE WORK AREA SHALL PROHIBIT THE SPREAD OF AIRBORNE PARTICLES INTO CEILING PLENUMS, DUCT WORK AND NON-WORK AREAS.
56. THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE SUB CONTRACTORS FOR THE STORAGE OF ALL MATERIALS SO AS TO NOT DAMAGE OR OVERLOAD THE EXISTING CONSTRUCTION.
57. CONTRACTOR TO MAINTAIN ALL EXISTING CONSTRUCTION FIRE RATING REQUIREMENTS AND INSTALL ALL NEW CONSTRUCITON WITH RATINGS AS INDICATED ON THE CONSTRUCTION DRAWINGS.
58. ALL NEW CONSTRUCTION, INCLUDING REQUIRED BLOCKING, IN-WALL SUPPORTS & ATTACHEMENTS, INTERSECTING ANY EXISITNG RATED CONSTRUCITON, SHALL BE INSTALLED SO AS TO MAINTAIN EXISTING CONSTRUCTION RATING WITH INDUSTRY APPROVED MATERIALS AND STANDARDS (FIRE SAFING, DAMPERS, ETC).
59. ALL OPENINGS IN FLOOR SLABS AND WALLS INCLUDING THOSE FOR DUCTS, CONDUIT, PIPING, ETC. MUST BE FILLED WITH APROVED MATERIALS TO MAINTAIN THE FIRE RATING CONTINUITY OF THE WALL/FLOOR CONSTRUCTION.
60. WALL & CEILING ASSEMBLIES THAT ARE IDENTIFIED WITH A FIRE RESISTIVE RATING SHALL BE CONSTRUCTED AS PER UL & ASTM DESIGNS, MANUFACTURERS' SPECIFICATIONS AND DETAILS AND THE REQUIREMENTS OF ALL APPLICABLE CODES & GOVERNING BODIES.
61. PROVIDE SHORING AND BRACING AS NECESSARY TO PROTECT ALL EXISTING CONSTRUCTION TO REMAIN.
62. CONTRACTOR TO REMOVE ALL ABANDONED CABLES, WIRING, PIPES AND DEBRIS (NOT USED) FROM BUILDING AND SITE.
63. ALL WOOD BLOCKING TO BE PRESSURE TREATED. ALL WOOD BLOCKIING TO BE PRESSURE TREATED AND FIRE RETARDANT IN EXTERIOR WALLS.
64. THE GENEREAL CONTRACTOR SHALL PROTECT EXISTING CONDITIONS AND OTHER WORK BY OTHER CONTRACTORS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING CONDITIONS OR WORK BY OTHERS INCURRED WHILE FULFILLING THIS CONTRACT.
65. JUNCTURES OF NEW AND EXISTING OR OTHER WORK SHALL BE REPAIRED AND PATCHED TO MATCH ADJACENT EXISTING SURFACES. EXISTING WALLS REQUIRING MODIFICATION OF ANY KIND SHALL BE REFINISHED TO THE NEAREST OUTSIDE OR INSIDE CORNER.
66. PATCH AND/OR REPLACE, TO MATCH EXISTING MATERIAL, ALL SURFACES (INTERIOR AND EXTERIOR) ADJACENT TO THE AREA OF WORK. THIS WILL INCLUDE: FLOORS, WALLS, CEILING, ETC. PAINT, IF REQUIRED, TO MATCH EXISTING, OR NEW FINISH. SURFACES TO BE SMOOTH AND LEVEL TO MATCH ADJACENT SURFACES.
67. ANY DAMAGE CAUSED BY THE CONTRACTOR TO EXISTING CONSTRUCTION, ADJACENT PROPERTY OR STRUCTURES, TENANT PROPERTY OR STRUCTURES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE OWNERS AND TENANTS.
68. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL PARTS OF THE WORK SO THAT NO WORK SHALL BE LEFT IN AN UNFINISHED OR INCOMPLETE CONDITION.
69. AT THE COMPLETION OF THE JOB PRIOR TO FINAL PAYMENT, THE CONTRACTOR SHALL PROVIDE ONE (1) COMPLETE MARKED-UP SET OF PRINTS WITH AS-BUILT CONDITIONS NOTED. THE CONTRACTOR SHALL ALSO PROVIDE TWO (3) COPIES OF APPLICABLE WARRANTIES, OPERATIONS MANUALS AND/OR MAINTENANCE INSTRUCTIONS.
70. ALL WORK SHALL BE OF FIRST CLASS WORKMANSHIP AND GUARANTEED BY THE GENERAL CONTRACTOR AGAINST DEFECTS AND POOR WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.
71. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR BLOCKING AND ELECTRICAL CONNECTIONS FOR ALL MILLWORK. PROVIDE ADEQUATE CONCEALED BLOCKING FOR ALL MILLWORK HUNG FROM PARTITIONS. FIRE TREATED WOOD OR SHEET METAL IS ACCEPTABLE. ALL WOODWORK, BLOCKING, GROUNDS, ETC. SHALL BE TREATED IN ACCORDANCE WITH ALL APPLICABLE CODES.
72. IF ANY HAZARDOUS MATERIAL IS ENCOUNTERED DURING CONSTRUCTION THE CONTRACTOR SHALL IMMEDIATELY INFORM THE OWNER OR OWNER'S REPRESENTATIVE FOR FURTHER ACTION REQUIREMENTS.
73. THE BUILDING THERMAL ENVELOPE SHALL BE DURABLY SEALED TO LIMIT AIR INFILTRATION IN ACCORDANCE WITH ENERGY CODE SECTION C402.4.1.2.3. GC TO PROCURE A THIRD PARTY TEST AT GC'S EXPENSE TO ENSURE CODE MINIMUM REQUIREMENTS ARE MET. A COPY OF THE TEST REPORT SHALL BE GIVEN TO THE VILLAGE OF CHICAGO RIDGE PRIOR TO FINAL INSPECTION.
74. GC TO PROVIDE A MECHANICAL SYSTEM STEST AND BALANCE REPORT TO THE VILLAGE OF CHICAGO RIDGE PRIRO TO FINAL INSPECTION.

REFLECTED CEILING & ELECTRICAL NOTES

1. INSTALL ALL MATERIALS AND SYSTEMS IN ACCORDANCE WITH MANUFACTURERS' SPECIFICATIONS AND ALL LOCAL AND STATE CODES WHICH HAVE AUTHORITY OVER THIS WORK.
2. FINAL DETERMINATION OF QUALITY AND LOCATION REQUIREMENTS OF EXIT SIGNS IS SUBJECT TO APPROVAL OF THE BUREAU OF FIRE PREVENTION OF THE CITY.
3. ARCHITECTURAL POWER PLAN WHEN PROVIDED IS PROVIDED FOR INFORMATION ONLY. ELECTRICAL CONTRACTOR TO DETERMINE TYPE, QUANTITIES AND CIRCUITING. ALL RECEPTACLES THAT ARE EXISTING TO REMAIN SHALL BE CHECKED AND REPAIRED FOR OPERATION.
4. ALL NEW OUTLETS UNLESS OTHERWISE NOTED ARE TO BE MOUNTED HORIZONTALLY 15" AFF.
5. TELEPHONE AND ELECTRICAL OUTLETS MOUNTED IN PAIRS ARE TO BE MOUNTED EITHER SIDE OF A SINGLE STUD.
6. WHERE TWO OR MORE ELECTRICAL OUTLETS ARE LOCATED TOGETHER, THEY ARE TO BE GANGED BEHIND ONE COVER PLATE.
7. ALL SEPARATE CIRCUITS ARE TO BE FURNISHED WITH DISCONNECT SWITCHES AS REQUIRED BY CODE.
8. WHERE TWO OR MORE RECEPTACLES OR SWITCHES ARE SHOWN TOGETHER, THEY ARE TO BE GANGED BEHIND ONE COVER PLATE.
9. CEILING TILES TO BE INSTALLED SO GRAIN LINES OF TILE ARE RUNNING IN SAME DIRECTION ON ALL CEILINGS OR AS INDICATED ON DRAWINGS.
10. FOLLOWING COMPLETION OF CEILING INSTALLATION ALL JOINTS SHALL BE STRAIGHT, TRUE TO LINE, WITH EXPOSED SURFACES FLUSH AND LEVEL.
11. FINAL THERMOSTAT LOCATIONS ARE TO BE INDICATED ON ENGINEERING DRAWINGS AND ARE SUBJECT TO APPROVAL OF THE ARCHITECT, OWNER & TENANT PRIOR TO INSTALLATION.
12. ELECTRICAL CONTRACTOR SHALL VERIFY CONDUIT SIZE REQUIRED FOR DATA CABLING WITH CLIENT.
13. THE GC IS RESPONSIBLE FOR ALL FLOOR AND WALL PENETRATIONS FOR ELECTRICAL AND MECHANICAL WORK. ALL SUCH OPENINGS SHALL BE FRAMED AND REINFORCED.
14. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL OUTLET LOCATIONS WITH ARCHITECT, OWNER & TENANT IN WRITING. ALL EXISTING OUTLETS NOT SHOWN ON PLANS ARE TO REMAIN & BE FULLY FUNCTIONAL.
15. INSTALL OUTLET(S) AFTER INSTALLATION OF MILLWORK. VERIFY LOCATIONS WITH GC & MILLWORKER USING MILLWORK DRAWINGS AND COORDINATE INSTALLATION WITH MILLWORKER.
16. THE ELECTRICAL CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING OF BUILDING MATERIALS REQUIRED FOR THE INSTALLATION OF HIS WORK.
17. OUTLETS OCCURRING IN SOUND ATTENUATED PARTITIONS SHALL BE STAGGERED TO REDUCE NOISE TRANSMISSION THROUGH WALLS.
18. CONVENIENCE OUTLETS MOUNTED AS REQUIRED BY LOCAL CODES UNLESS OTHERWISE NOTED.
19. FOR ELECTRICAL WORK LOCATED WITHIN CABINET WORK: LAMPS AND FIXTURES ARE TO BE PROVIDED BY THE ELECTRICIAN. CUT-OUTS FOR SWITCHES, OUTLETS, ETC., AS REQUIRED, ARE BY THE CABINETCONTRACTOR AND ARE TO BE COORDINATED WITH THE ELECTRICAL CONTRACTOR.
20. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ELECTRICAL SERVICE, EMPTY CONDUITS WITH BACK AND J-BOXES AS NECESSARY TO ACCOMMODATE THE TENANT'S TELEPHONE DATA SYSTEMS. THE GC & ELECTRICAL CONTRACTOR SHALL MEET WITH THE TENANT'S CABLING CONTRACTOR TO REVIEW ELECTRICAL AND CONDUIT REQUIREMENTS, PRIOR TO PROCEEDING WITH INSTALLATION.
21. GC TO PROVIDE OCCUPANCY SIGNS CONFORMING TO APPLICABLE BUILDING CODE REQUIREMENTS.
22. EXTERIOR SIGNAGE UNDER SEPARATE PERMIT AND SUBMITTAL. GC TO PROVIDE ELECTRICAL CONNECTION PER ELECTRICAL DRAWINGS AND COORDINATE WITH SIGNAGE CONTRACTOR.
23. PROVIDE ADDITIONAL EXIT SIGNS AND FIRE EXTINGUISHERS IN TYPE, NUMBER AND LOCATION AS DIRECTED BY THE FIRE DEPARTMENT'S FIELD INSPECTOR.
24. PROVIDE ILLUMINATED EXIT SIGNS AS REQUIRED BY CODE.

FINISH NOTES

1. PAINTING AND DECORATING CONTRACTOR SHALL EXAMINE EXISTING CONDITIONS AND REPORT ALL IRREGULARITIES IMMEDIATELY TO THE GENERAL CONTRACTOR. COMMENCEMENT OF WORK SHALL INDICATE ACCEPTANCE OF EXISTING SURFACE.
2. ALL PAINT SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION FOR TYPE OF PAINT AND SURFACE CONDITIONS. ALL PAINT TO BE LOW OR NO VOC.
3. PROVIDE (1) PRIME COAT & (2) FINISH COATS ON ALL SURFACES TO BE PAINTED. U.N.O.
4. PROTECT ALL FINISHED WORK AND ALL ADJACENT WORK AND MATERIALS WITH SUITABLE COVERINGS OR OTHER METHOD DURING PROGRESS OF THE PAINTING WORK.
5. FILL FASTENER HOLES WITH SUITABLE FILLER, REMOVE ALL PAINT SPATTER FROM GLASS, FLOORS, AND OTHER FINISHED SURFACES.
6. CLEAN ALL SURFACES TO BE FINISHED AS REQUIRED TO REMOVE OIL, GREASE, DUST, AND DIRT. SAND WHERE NECESSARY AND AT EXISTING PAINTED SURFACES TO PROPERLY PREPARE SURFACES TO RECEIVE FINISH.
7. THE PAINT CONTRACTOR SHALL REMOVE ALL HARDWARE, SWITCH COVERS, ETC. PRIOR TO PAINTING AND BE RESPONSIBLE FOR THE REINSTALLATION AFTER PAINTING IS COMPLETED.
8. FINAL PAINT COATS SHALL NOT BE APPLIED UNTIL AFTER WORK FROM OTHER TRADE WHOSE OPERATIONS WOULD BE DETRIMENTAL TO FINISH PAINTING ARE COMPLETE IN THE AREAS TO BE PAINTED.
9. ACCESS PANELS, ELECTRICAL PANELS, AIR DIFFUSING OUTLETS, SUPPLY AND EXHAUST GRILLES, LOUVERS, EXPOSED CONDUIT, PRIMED OUTLET COVERS, PRIMED WALL AND CEILING PLATES AND OTHER ITEMS IN PAINTED AREAS SHALL BE PAINTED TO MATCH THE AREAS IN WHICH THEY OCCUR UNLESS OTHERWISE SPECIFIED.
10. WORKMANSHIP OF PAINTER & FINISHERS SHALL BE FIRST CLASS IN EVERY RESPECT WITH ALL MATERIALS EVENLY SPREAD AND SMOOTHLY FLOWED ON WITHOUT RUNS AND SAGS.
11. ALL DOORS, WHEN PAINTED, TO BE SAME COLOR BOTH SIDES, UNLESS OTHERWISE NOTED.
12. ALL AIR CONDITIONER CEILING DIFFUSERS AND REGISTERS THAT ARE NOT FACTORY FINISHED SHALL BE PAINTED TO MATCH CEILING, UNLESS NOTED OTHERWISE.
13. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PREPARE THE FLOORS TO MANUFACTURER'S RECOMMENDATIONS AND AS SPECIFIED TO BE IN CONDITION TO RECEIVE FINISHES.
14. FLOOR COVERINGS IN CLOSETS SHALL BE THE SAME AS THAT OF THE SPACE ONTO WHICH THE CLOSET DOOR OPENS, UNLESS NOTED OTHERWISE.
15. FLASH PATCH ALL AREAS WHERE FLOOR IS NOT LEVEL OR TRUE, PRIOR TO FLOOR COVERING INSTALLATION.
16. PROVIDE AND INSTALL ALL FLOORING MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS & RECOMMENDATIONS.
17. THE FLOOR FINISH CONTRACTORS MUST INSPECT THE SUBFLOOR BEFORE STARTING WORK. HE SHALL NOTIFY OWNER AND ARCHITECT IN WRITING OF ANY CONDITION WHICH WILL PREVENT HIM FROM SATISFACTORILY COMPLETING HIS WORK. HE SHALL NOT PROCEED WITH ANY WORK UNTIL SUCH DEFECTS ARE ENTIRELY CORRECTED.
18. THE START OF INSTALLATION BY THE FLOOR FINISH CONTRACTORS SHALL BE AN INDICATION OF HIS ACCEPTANCE OF THE SUB-FLOOR SURFACES, AND HE WILL AUTOMATICALLY ASSUME THE RESPONSIBILITY FOR UNACCEPTABLE FINISH WORK CAUSED BY FLOOR CONDITION.
19. ALL FINISH CONTRACTORS SHALL COOPERATE WITH THE ELECTRICAL CONTRACTOR AND CABLING COMPANY AND SHALL CONFIRM WITH THE ELECTRICAL AND DATA RECEPTACLE COVER REQUIREMENTS.
20. METAL TRANSITION STRIPS SHALL BE INSTALLED BY FLOOR FINISH CONTRACTOR AS REQUIRED AT EVERY LOCATION WHERE EDGE OF FINISH IS EXPOSED TO TRAFFIC AND/OR MEETS ANOTHER. FINISH STYLE AND COLOR TO BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.
21. METAL CARPET REDUCER STRIPS & EDGES SHALL BE INSTALLED AT ALL LOCATIONS WHERE CARPET MEETS ANOTHER MATERIAL, PROFILES & FINISH TO BE REVIEWED BY ARCHITECT PRIOR TO ORDERING & INSTALLATION.
22. INSTALLED FINISHES SHALL BE FREE OF SPOTS, DIRT, OR SOIL. ANY SOILED SPOTS OR EXCESSIVE ADHESIVE ON THE SURFACE SHALL BE REMOVED WITH THE MANUFACTURER'S RECOMMENDED SPOT REMOVER.
23. FOLLOW DIRECTION & LAYOUT FOR ALL CEILING, WALL & FLOOR FINISHES AS INDICATED ON THE DRAWINGS.
24. GENERAL CONTRACTOR SHALL PREP ALL WALL SURFACES AS PER WALL COVERING MANUFACTURER'S RECOMMENDATIONS PRIOR TO INSTALLATION.
25. ALL WALL COVERINGS SHALL BE INSTALLED AS PER WALL COVERING MANUFACTURER'S RECOMMENDATIONS.
26. INSTALL ONLY UNDERWRITER'S LABORATORY, INC. (UL) LABELED DEVICES AND FIXTURES.
27. CARPET INSTALLATION TO BE PERFORMED BY CARPET CONTRACTOR. WORK SHALL INCLUDE FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, AND SERVICES NECESSARY FOR, AND INCIDENTAL TO, A PROPER INSTALLATION INDICATED ON ARCHITECT DRAWINGS.
28. THE CARPET CONTRACTOR SHALL VISIT THE SITE AND SHALL VERIFY ALL DIMENSIONS AND OTHER CONDITIONS AS REQUIRED TO ACCURATELY LAY OUT AND FIT ALL ITEMS SPECIFIED HEREIN.
29. CARPET CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR ACCURACY OF MEASUREMENTS AND TOTAL YARDAGE REQUIREMENTS TO BE FURNISHED. NO REQUESTS FOR MATERIALS OR INSTALLATION EXTRAS WILL BE CONSIDERED DUE TO MEASUREMENT OR TAKE-OFF ERRORS BY THE CARPET CONTRACTOR.
30. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO PREPARE THE FLOORS AS SPECIFIED TO BE IN CONDITION TO RECEIVE CARPETING.
31. FURNITURE REPLACEMENT-REMOVAL AND REPLACEMENT OF FURNITURE SHALL NOT BE THE RESPONSIBILITY OF CARPET INSTALLER.
32. ALL CARPET DEBRIS MUST BE REMOVED FROM THE JOB SITE. ANY EXPENSE THE LANDLORD MAY INCUR IN REMOVING DEBRIS WILL BE DEDUCTED FROM THE MONIES DUE TO THE CARPET CONTRACTOR.
33. AT COMPLETION OF INSTALLATION THE CARPET CONTRACTOR SHALL FURNISH LANDLORD WITH VERIFICATION OF EXACT AMOUNT OF OVER-RUN. CONTRACTOR TO VERIFY AT TIME OF CARPET BID THE QUALITY OF OVER-RUN TO BE ACCEPTED.
34. THE CARPET INSTALLER SHALL BE FULLY RESPONSIBLE FOR THE INSTALLATION UPON COMPLETION. THE INSTALLATION SHALL BE INSPECTED BY THE ARCHITECT, LANDLORD AND INSTALLER PRIOR TO ACCEPTANCE BY THE LANDLORD.
35. CARPETING CONTRACTOR TO LOCATE CARPET SEAMS SO AS TO PROVIDE UNIFORM DIRECTION OF PATTERN AND LAY OF PILE. SEAMS SHALL BE CENTERED UNDER DOORS AND NOT LOCATED ACROSS DIRECTION OF TRAVEL.
36. INSTALL ALL FINISHES ACCORDING TO PATTERNS AS INDICATED ON DRAWINGS. DO NOT ASSUME BOND PATTERN OR COLOR PATTERN.
37. ALL LARGE FORMAT CERAMIC/PORCELAIN TILE TO BE INSTALLED WITH RAPID SETTING ULTRA-PREMIUM, ADHESIVES, & EPOXY MORTARS AND GROUTS.
38. ALL INTERIOR FINISHES ON WALLS, CEILINGS, & FLOORS SHALL CONFORM TO THE FOLLOWING CLASS LIMITATIONS:
    - A. * EXITS & ACCESS TO EXITS - A OR B, I OR II
    - B. * OTHER SPACES - A, B, OR C
    - C. CLASS A INTERIOR WALL AND CEILING FINISH: FLAME SPREAD 0-25, (NEW) SMOKE DEVELOPED 0-450
    - D. CLASS B INTERIOR WALL AND CEILING FINISH: FLAME SPREAD 36-75, (NEW) SMOKE DEVELOPED 0-450
    - E. CLASS C INTERIOR WALL AND CEILING FINISH: FLAME SPREAD 76-200, (NEW) SMOKE DEVELOPED 0-450
    - F. CLASS I INTERIOR FLOOR FINISH: CRITICAL RADIANT FLUX, NOT LESS THAN 0.45 W/CM2
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CROWN ENTERPRISES LLC

STATE OF GEORGIA
JON TALTY
CERTIFICATE NO. RA 017066
REGISTERED ARCHITECT

NO.:	ISSUED FOR:	DATE
1	PERMIT	06/27/2025
	BID	08/04/2023

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ATLANTA, GEORGIA

GENERAL NOTES

DRAWN BY: BD   CHECKED: ES/NS

DATE: 01/03/2024   SHEET NO.: G200

PROJ. NO.: 22129

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PROJECT CRITERIA

- **Occupancy Information:**
  - Office / Administrative: 15 employees
  - Loading Dock: 10 employees
  - Yard: 3 employees
- **Building Setback Requirements:**
  - Per Authorities Having Jurisdiction, with variance(s) as needed to comply with Site Plan.

01 11 00 Summary of Work
01 11 01 Layout of Work
Contractor shall locate all general reference points, layout the Work, and be responsible for all lines, levels, measurements, and all other Work executed under the Contract. Contractor shall have a registered surveyor provide benchmark(s) for the Project and lay out building corners.

01 11 02 Examination of the Site
Visit the site, and be aware of all existing conditions. Failure to do so will not relieve the Contractor from necessity of furnishing any materials, or performing any Work, in accordance with the Conceptual Drawings and Project Criteria (without additional cost to Owner).

01 11 03 Testing and Inspections
All sampling and testing called for shall be conducted by a testing laboratory pre-approved by the Owner. Cost of tests shall be borne by the Contractor. A copy of all test results shall be provided from the testing laboratory directly to Owner, electronically via email, in real time. Required testing services and observations shall include the following as per ASTM International standard(s):
- Soils Testing
  - Moisture/density curves.
  - Compaction testing of fill materials in preparation of sub-grade.
  - Inspection of (proof rolling) of final lift or grade and re-compaction of deficient area until proper compaction is obtained.
  - Continuous on-site observations of moisture conditioning during entire operation and testing of each lift.
  - On-site observations as required for placement of lime stabilization and/or select fill during select periods of the operation and associated compaction testing.
- Concrete Testing
  - Conduct slump test of batched concrete.
  - Conduct air entrainment test when applicable.
  - Casting of concrete cylinders for determining required compressive strength of concrete as specified elsewhere.
  - Conduct core testing as needed and where low cylinder breaks occur.
- Coring (Asphalt and concrete paving sections)
  - Provide coring of all concrete and asphalt paving sections as required to determine proper paving depths, compressive strength and proper size placement of reinforcing steel.
  - Concrete paving - take cores at the rate of one [1] core per 50,000 sq. ft. of all concrete paved areas or a minimum of one [1] core per paved area if under the 50,000 sq. ft. rule. If any placed pavement section is determined to be 1/2" or more in thickness less than that as specified and or as designed, provide additional testing as directed by Owner.
  - Asphalt paving - take cores at the rate of one [1] core per 25,000 sq. ft. of all asphalted paved areas. If it has been determined that any placed pavement section is determined to be 1/2" or more in thickness less than that as specified and or as designed, provide additional testing as directed by Owner.
  - Provide a full written report reporting findings.
- Concrete Test Cylinders - provide one [1] set of concrete cylinders, four [4] cylinders each for determining compressive strengths.
- Provide quantities based on the following:
  - Concrete paving: [1] set for every 120 cubic yards or one day's placements.
  - Floor slabs: [1] set for every 80 cubic yards or one day's placement.

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  - Foundations: [1] set for every 100 cubic yards or one day's placement.
- Concrete cylinders shall be broken at the following cycles, with the minimum of design strength to be achieved:
  - Cylinder 1 @ 7 days, 85% of specified design strength
  - Cylinder 2 @ 28 days, 100% of specified design strength
  - Cylinder 3 @ 56 days, 105% of specified design strength
  - Cylinder 4 @ as required; cylinder can be discarded if 56-day break exceeds 100% of specified design strength
- Special inspections as required by authorities having jurisdiction.

Prior to casting cylinders, provide slump testing of concrete. It shall be the testing engineer's and/or field technician's responsibility to reject all materials that do not fall within maximum slump requirement of 4 inch +/- 1 inch slump. Loads with a slump greater than 5" shall be immediately rejected and promptly removed from the project site. It shall be the responsibility of the testing technician present at the job site and the Contractor's site superintendent to comply with these requirements. Provide other testing and inspections as required by governmental agencies having jurisdiction.

01 11 04 Enclosed Storage Areas
The Contractor and each subcontractor shall provide and maintain watertight storage areas for materials which might be damaged by weather. These storage areas shall be removed from site at completion of the Work.

01 11 05 Guard Service
The Contractor will be held responsible for loss or injury to persons or property where the Work is involved and shall take any and all precautionary measures as he may deem necessary to protect the Work and the Owner's interests. The Contractor, at its sole cost and discretion, may provide guard service during construction as an additional measure to maintain access and control to the site.

01 11 06 Daily Clean-Up
The Contractor is responsible for all periodic and final cleaning of the Project Site and work areas. This clean-up requirement includes broom-clean work areas at the end of every work day. A clean Project site is a safe Project Site. All debris must be legally disposed off-site.

01 11 07 Record Drawings
Maintain a clean, undamaged set of Contract Drawings and Shop Drawings at the site. Mark the set (a/k/a "red line") to show the actual installation where the installation varies substantially from the Work as originally shown and include any notes and revisions to the Scope of Work. Give particular attention to concealed elements that would be difficult to measure and record at a later date. The building location as prepared and provided by the registered land surveyor must also be included.

01 11 08 Site Supervision
The Contractor shall provide adequate and appropriate supervision in order to perform all Work in a quality-conscious manner, protect materials from damage, maintain a safe and secure jobsite, erect at its expense any and all safety barriers and measures and in general, conform to all applicable rules and regulations concerning employee safety and health. At a minimum, Contractor must have a full-time Site Superintendent on the Project Site during the construction of the Project.

The Site Superintendent must be fluent in English. The Contractor must also have a Project Manager and other staff as required for successful completion of the Project within the timelines as set forth in the Project Schedule. All persons interacting with the Owner or Owner's Representative shall be fluent in English.

The Contractor's Project Manager shall be responsible to serve as the gateway for all written and verbal correspondence between the Owner (or appointed Owner's Representative) and Contractor or vice versa. Duties shall include but not necessarily be limited to: emails, RFI's, construction reports, construction schedules, review of shop drawings prior to delivery of and review by Owner and any and all other correspondence, either written and/or spoken.

01 11 09 Project Close Out
Contractor must submit maintenance and operation manuals, final project photographs, damage or settlement survey, property survey, licenses / permits, and similar final record information. Submit record "As-Built" set of drawings in electronic

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format (PDF), as well as AutoCAD files, all in electronic format on a non-expiring "cloud" link, formatted in English, within [30] days of Final Completion. In addition:
- Deliver extra stock, a/k/a "attic stock" items.
- Discontinue or change over and remove temporary facilities from the site, along with construction tools, mock-ups, and similar elements.
- Complete final clean up requirements per Section 01 80 00, including touch-up painting as required after all Owner's furniture is installed.

01 12 16 Work Sequence
The Project may require phasing with respect to the components of the Work in terms of multiple mobilizations. All schedule(s) and sequencing shall be drawn up by the Contractor; the Contractor shall include all costs as required based upon the schedule as approved by the Owner.

01 21 00 Allowances
Not used.

01 26 63 Change Orders
When the changes in the Work are ordered which increase or decrease the Scope of Work, the Work shall be performed for the net cost to the Contractor plus a Contractor Fee. The Contractor Fee shall include overhead and profit and shall be a percentage as agreed to upon by the Owner. It is the responsibility of the Contractor to insure all costs as submitted are accurate, including verification of material and equipment costs; actual costs paid by the Contractor or its subcontractor in connection with the work shall be used, inclusive of all discounts, and not the "list" or "retail" pricing. Invoice detail and other supporting documentation shall be provided if requested by the Owner.

01 29 00 Payment Procedures
- The Contractor will submit, prior to the commencement of Work, a Schedule of Values for review and approval by the Owner; this statement will be furnished by the Contractor allocating portions of the Contract Sum to various portions of the Work and used as the basis for reviewing Contractor's Applications for Payment.
- The Contractor shall submit Applications for Payment on a monthly basis, due on the 25th of the month. These Applications for Payment shall include the Work complete as of the 25th date for the previous month's progress in the Work. Each Application for Payment shall include a hold back of 10% retention, to be billed separately after Final Occupancy is achieved. All Applications for Payment shall be made using AIA forms G702 & G703, submitted via email to the Owner (or Owner's Representative, if applicable).
- The Contractor may bill for Stored Material in Applications for Payment, which includes materials or equipment purchased or fabricated and stored, but not yet installed. Differentiate between items stored on-site and items stored off-site. Provide certificates of insurance, evidence of transfer of title to Owner, and consent of surety to payment (if applicable), for stored materials. Provide supporting documentation that verifies amount requested, such as paid invoices and photographs. Match amount requested with amounts indicated on documentation; do not include overhead and profit on stored materials. All requested information must accompany Applications for Payment in order for Stored Material(s) to be considered for payment.
- The Contractor shall include an updated Sworn Statement with each Application for Payment; the Sworn Statement shall list any and all vendors / suppliers / subcontractors involved on the Project due and owing. Each Sworn Statement shall indicate (i) vendor name, (ii) work category description, (iii) total contract price inclusive of all changes, (iv) previous paid amount, (v) past due amount, (vi) current payment due amount, and (vii) balance to complete inclusive of retention. The Sworn Statement shall be prepared on a form in accordance with the Construction Lien Act of 1980, and shall be signed by an Officer of the Contractor and notarized by an official notary with the State.
- The Contractor shall also submit lien waivers for all entities lawfully entitled to file a mechanic's lien arising out of the Contract and related to the Work covered by the payment. Submit partial waivers on each item for amount requested in previous Application, after deduction for retainage, on each item. When an Application shows completion of an item, submit final or full waivers. The Owner reserves the right to designate which entities involved in the Work must submit waivers. All waivers shall be on forms acceptable under the Construction Lien Act of 1980.

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- All Applications for Payment shall be submitted electronically (via email) to Owner or Owner's Representative as applicable.

01 30 00 Administrative Requirements
01 30 01 Project Management and Coordination
The Contractor will have weekly site meetings and as the need arises with all subcontractors and Owner's Project Management team. The Contractor shall establish a conference call-in line for those not present at the site. Video conferencing is also acceptable and encouraged. The Contractor shall maintain and electronically distribute written meeting minutes to Owner and all subcontractors after each meeting. The Contractor's Project Manager shall attend, at least every other week, the weekly site meeting between the Site Superintendent and the Subcontractors.

01 30 02 Construction Camera
Contractor shall provide an on-site PTZ (pan-tilt-zoom) camera for the duration of the Project, for use by the Owner to observe the progress of the Work. The camera shall have ultra-high-definition ("UHD") 4K resolution with optical zoom, be solar powered and operate off a cellular network, similar to TrueLook Construction Cameras, www.truelook.com. The Owner shall have the ability to operate all aspects of the camera, including full administration rights. The camera shall be mounted in a location as approved by the Owner and not relocated for the duration of the project; Contractor shall include temporary wood pole (35'-0" high, minimum) as needed if existing pole location is not adequate. Contractor shall remove camera and temporary pole upon Substantial Completion of the Work, and include all restoration as needed.

01 30 03 Construction Progress Documentation
Contractor shall provide to the Owner, on a **weekly** basis via email, a Project Status Report with the following as a minimum:
- Project Name
- Date
- Report Number
- Work performed the previous week
- Work anticipated to be performed the following week.
- Schedule concerns / lead time items.
- Safety concerns / incidents.
- Percentage complete, by bid division categories, of the various Work items
- Action Items
- Photographs of current site conditions, minimum ten [10] photos per report

The Project Status Report shall be provided on Friday morning, in English, provided in PDF format, and be no larger than 1mb each.

01 30 04 Construction Schedule
The Contractor shall submit a fully developed Gantt chart construction schedule produced in electronic format. The schedule shall identify the jobsite critical path, planned Workdays/hours per week and include allotted time for weather related delays, etc. appropriate for the site area. The chart shall provide a separate bar for each construction activity and vertical lines identifying the first Working Day of each week. Completion shall be indicated in advance of the date established for Substantial Completion (00 31 00). Include, but do not necessarily limit indicated activity to:
- Project mobilization
- Submittals / Shop Drawings submission
- Procurement of equipment and critical materials
- Fabrication of special material and equipment, and its installation and testing
- Progression of the Work amongst various trades
- Final inspection and testing in order to obtain Certificate of Occupancy
- Final cleaning
- Foundation Completion Date (as per Section 00 31 00)
- Beneficial Occupancy ["Fixturing"] Date (as per Section 00 31 00)
- Substantial Completion Date (as per Section 00 31 00)
- Final Completion Date (as per Section 00 31 00)

PROJECT CRITERIA

- Commissioning and training of equipment
- All activities that effect process, required start dates and completion dates.

Construction schedule shall be updated on a weekly basis, and submitted to Owner via email, accompanying Weekly Project Status Report. The Microsoft Project file shall be provided in addition to a PDF copy at each update to the schedule. Penalties will be assessed, if any, for every day past due, after the Substantial Completion Date as set forth in Section 00 31 00; the definition for Substantial Completion is found under Section 00 22 00. Further, if at any point during the Project, the Construction Schedule falls more than five [5] working days behind, the Contractor shall provide a Recovery Schedule to the Owner, showing all corrective action measures to be taken to meet the Substantial Completion Date as set forth in Section 00 31 00. The Recovery Schedule shall be due to Owner within seventy-two [72] hours of notice by Owner to Contractor, and shall contemplate overtime, additional crews, shift work, etc. at the Contractor's sole cost and expense as required to meet Milestone Date(s).

01 30 05 Governmental Safety Requirements
Contractor shall comply with all governmental safety requirements, including standards set forth by OSHA, NIOSH and other authorities having jurisdiction.

01 30 06 Cost Escalations
The Contractor assumes all risk for construction cost escalations beyond anticipated amounts during bidding and construction phases, except changes in specification submitted in writing and approved by Owner.

01 30 07 Project Accounting
As may be required, Contractor must assist Owner's financial staff in correctly allocating capitalized cost versus expenses. This may include providing back-up of invoices and other financial information associated with the Project.

01 40 00 Design Services
The Designers are responsible for providing services required for the further development of the Project Criteria and Conceptual Drawings, the cost of which shall be included in the Contractor's bid amount. These services shall include preparation of all architectural / engineering construction documents, design review meetings, shop drawing reviews, and all other detailed information or drawings necessary to obtain all required permits and complete the Work. Plans shall be reviewed by, and bear the seal of an architect / engineer registered in the location where project is to be constructed.
- Include design review meetings as required in order to complete the design drawing package. The Designers, should allow for reviews at the 30% drawings, 60% drawings, 90% drawings, and final Construction Documents set, at a minimum.
- All construction document drawings shall be drawn in 24"x 36" format. Drawings submitted in 30" x 40" format or larger will not be acceptable.
- Construction documents shall be designed in conformance with all applicable building Codes and ordinances.
- Owner shall provide a property survey indicating boundaries, easements, available utilities and topography of land within the property boundaries for aid in the Project design.
- Design of site work related items shall be by a registered engineer, (i.e. roads, swales, storm water management, detention/retention areas, etc.).
- All final design layouts including site design, office and warehouse / cross dock design, related details, fire protection, plumbing, mechanical and electrical design shall be reviewed and approved by Owner before actual construction begins, with exception to site work construction activities.
- The Designers shall deliver an electronic set in PDF and AutoCAD. Drawings shall be in English. The drawings shall include, but not be necessarily limited to the following:
  - Drawing Index & Code Summary Sheet
  - Site Plan with Location Map
  - Demolition Plan (as applicable)
  - Site Grading Plan(s)
  - Site Utility Plan(s)
  - Site Plan Detail(s)
  - Site Security Details, including fencing / gate / turnstile details
  - Paving Plan and Details

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  - Landscape Plan and Details (including irrigation if applicable)
  - Structural Foundation Plan(s) and Details
  - Structural Slab Plan(s) with Joint Layout and Details
  - Floor Plan(s) with Enlarged Plan(s) as needed
  - Building Elevation(s)
  - Building Detail(s)
  - Reflected Ceiling Plan(s)
  - Millwork Elevation(s) and Details
  - Room Finish Schedule
  - Door and Window Schedules
  - Fire Suppression Plan(s) and Schedules
  - HVAC Plan(s) and Schedules
  - Plumbing Plan(s) and Schedules, including Lubrication Plan (if applicable)
  - Electrical Plan(s) and Schedules, including low voltage and data
  - Photometric Plan with Calculations, for both building(s) and site
- Construction Documents that are submitted to Owner for approval purposes shall be submitted complete with all required drawings and deemed to be 100% complete. Drawings submitted in part or determined to be less than 95% complete, will be considered incomplete, and will be rejected and not approved and returned to the Contractor without comments. Drawings and Specifications submitted for Owner review shall be signed by Contractor's Project Manager stating that the Construction Documents meet all requirements of the Project Criteria and Conceptual Drawings. Revised Construction Drawings provided for additional review shall be submitted as an entire set of drawings & not submitted individually.
- Provide stamped and signed letter from Civil Engineer stating that they have reviewed the Geotech report prepared for this site and designed their pavement systems according to the Geotech Engineer's recommendations and identified areas to be undercut in their drawings.
- Once final drawings have been stamped "Approved For Construction" by the Engineer, the Contractor shall furnish, in addition to electronic CAD & PDF formats, four [4] hard-copy sets, two [2] full scale on 24" X 36" format and two [2] on 11" X 17" format drawings. Drawings shall be stamped "Approved for Construction" and shall be the set of Construction Documents in which to construct the Work. It shall be Contractor's responsibility to verify that the "Approved for Construction" drawings are maintained on-site at all times.
- Contractor shall provide each subcontractor with "Approved For Construction" plans and Specifications as related to their portion of the Work prior to construction start-up of the project. Contractor shall provide written notice of compliance to Owner.
- At completion of project, Contractor shall furnish to Owner a set of "As-Built" Construction Drawings and other closeout documents (01 11 09).

01 40 50 Submittals and Shop Drawings
The Contractor shall submit as a minimum, **via electronic format only**, the following Shop Drawings and product data as applicable. The Owner reserves the right to require submittals for other items and/or equipment not listed below. Shop Drawings and product data submittals that deviate from the requirements of the Contract Documents shall be brought to the Owner's attention, in writing at the time of submission. Allow for seven [7] days Owner review of each submittal.
- Concrete mix designs for all types of concrete products including differing psi strengths
- Asphalt pavement design for Heavy Duty and Light Duty
- Engineering calculations for the paving design as set forth in the Project Criteria
- Landscaping / Irrigation Plan and proposed plant types and sizes
- Photometric study of proposed site lighting, including light fixture type
- Security Fencing & Gates
- Metal Fabrications in Division 5 of the Project Criteria
- Architectural Millwork drawings
- Hollow metal door and window frames
- Glazing Systems
- Overhead Coiling Doors

PROJECT CRITERIA

- Overhead Sectional Doors
- Finish Hardware and Keying Schedule
- Toilet Accessories
- Dock Equipment
- Pre-Engineered Metal Building Drawings
- Fire Protection system
- HVAC Equipment
- Fire Alarm System
- Electric Panels & Switchgear / ATS
- Light Fixtures
- Room Finish Color Selections
- Other items as determined by Owner

01 50 00 Temporary Facilities and Controls
01 51 13 Temporary Electricity
Temporary electric service that is required in the performance of the Contract shall be paid for by the Contractor. This includes all setup charges; all temporary services shall be removed upon Final Completion of the Work. Provide temporary lighting as required for successful completion of the Work or per authority having jurisdiction.

01 51 36 Temporary Water
Temporary water required in the performance of the Contract shall be paid for by the Contractor.

01 52 13 Field Office
The Contractor shall provide during the entire period of construction, a field office with electrical power, wireless internet, HVAC (heat & cool), LED light fixtures, private restroom and daily clean-up for their use and to house the periodic construction progress meetings. All required permit(s) shall be prominently posted inside trailer for viewing.

01 52 19 Sanitary & Dining Facilities
The Contractor shall provide suitable toilet facilities for all construction workers at the construction site. Comply with all building and sanitation ordinances, laws and codes, including OSHA, NIOSH and other authorities having jurisdiction. Remove all temporary sanitary facilities before final inspection(s).

01 56 00 Temporary Fence
Contractor shall erect temporary fencing as needed to secure laydown area from Owner and/or Tenant's on-going operations. Additionally, Contractor shall be responsible to maintain security to the site at those locations where the Work breaches the existing fence perimeter. All temporary fencing is to be removed from the Project prior to Substantial Completion.

~~01 58 13 Temporary Project Signage~~
~~Contractor shall erect a project sign, minimum 8' wide x 4' high surface area, installed on treated wood or steel poles 6' above ground. The sign shall have a white background with vinyl cut letters and graphics to include the project's name, Owner's name and corporate logo, Contractor's name and logo, architect's name and logo, professional engineer's name and registration number and building permit number.~~

01 60 00 Redline / As-Built Drawings
- During the construction process, the Contractor's site superintendent shall be fully responsible to keep one set of "Approved" construction documents (Drawings and Specifications) on-site in the job trailer which shall be used as a master set of "Redline" drawings reflecting all changes made in the specifications and Working drawings during the construction process, and shall show the exact dimensions, geometry, and location of all elements of the Work completed under the contract.

PROJECT CRITERIA

- This set of redline drawings shall be updated at a minimum once a week noting any change made during construction and exact location of concealed underground utilities, including plumbing and sewer lines and electrical conduits.
- Identifying marks shall be clouded, dated and initialed by person making the change or comment. During the construction process, the Owner's representative may periodically review the master redline set to determine mark-ups are being made and if the drawings are currently up to date.
- Once the project has been completed the set redline mark-ups and comments shall be incorporated into the final "As Built" drawings and these final As Built drawings shall be included in the close-out documents.

01 80 00 Cleaning
- Contractor shall keep the premises free, at all times, from excess accumulations of waste and debris.
- Contractor shall present the completed project to the Owner at Final Occupancy in a "broom clean" condition. Office areas shall be thoroughly cleaned, dusted, glass and horizontal surfaces polished, floors damped mopped, VCT floors waxed and all tile properly sealed.
- Dock / warehouse floors shall be power swept and in dust and dirt free condition.
- Shop floors shall be power swept and in mop-clean condition.
- Exterior walls / doors shall be power-washed and in dust and dirt free condition.
- All exterior paved surfaces shall be mechanically swept of all dirt, mud, gravel and landscape material and left in a clean state. This includes all curb and gutter locations.

01 79 00 Demonstration and Training
Contractor and/or subcontractors shall allocate time to provide training to Owner's and/or Tenant's personnel of all equipment and building systems. Training must include a written presentation, classroom session and a hands-on session.

DIVISION 02 – SITE WORK
02 00 01 Earthwork
- All site work is to be done in accordance with the findings in the geotechnical report, with regard to site demolition clearing, excavation, over excavation, backfill and fine grading. During clearing, the black top soil with vegetable contents shall be removed completely from the structural areas. All fill material source should be sampled and tested by an independent testing agency prior to fill material transportation and backfill.
- Compaction of sub grade to ninety-five percent [95%] standard proctor per ASTM D698 at building pad, slabs, structural members and paved areas, in 8" maximum layers. A licensed, certified laboratory must be present to take samples during all earth moving process to assure compaction requirements. A copy of each laboratory result is to be provided to Owner via email. Cost for such testing and lab work is to be paid by Contractor.
- Include any and all cost associated with dewatering of the site as a result of construction or subterranean conditions.
- At Contractor's discretion and if applicable, with approval from authorities having jurisdiction, pulverize and leave existing pavement (or slabs) in place. Similarly, Contractor, with approval from authorities having jurisdiction, may choose to bulkhead and leave existing utilities in place (grouting solid, if required).

02 00 02 Site Clearing
All excess soils shall be exported from the Project Site, and legally disposed off-site. Refer to the geotechnical report for additional information. All top soil must be stripped and organic material and debris must be grubbed and removed; include sufficient quantities for landscaping and berming. Include screening by the site work contractor of stockpiled top soil as may be required for the landscaping work. Bid shall include cost to clear entire contract area as contemplated by the Site Plan.

02 00 03 Site Pad
Fill site pad area (a/k/a "dock fill") with approved structural fill material minimum as recommended by engineer. Compact to 95% modified proctor.

02 00 04 Yard pavement

PROJECT CRITERIA

Provide aggregate base in accordance with Geotechnical Report recommendation; assume 100 truck + trailers and/or buses per day; assume 8" thick unreinforced concrete, 4,500 psi for pavement section unless Geotechnical Report advises otherwise. Concrete pavement should be the basis of bid and subsequent design; asphalt pavement shall be used only as pre-approved by Owner and must be a minimum of 5" thick or as per the recommendations of the Geotechnical Report.

02 00 05 Automobile parking
Provide aggregate base in accordance with geotechnical report recommendation; assume 50 passenger autos per day; assume 4" thick asphalt in two [2] lifts for pavement section unless Geotechnical Report advises otherwise. Provide 24" wide concrete "curb & gutter" style around perimeter and all islands. Include 10'x10' concrete pads (8" thick) at all catch basin locations.

02 00 06 Curbs
Concrete curbs shall be provided where pavement meets landscaping and at all sidewalks and auto parking lot. At automobile parking, curbs shall be of the "round curb & gutter type" in 24" width. At yard areas, curbs shall be 8"x8" formed curbs integral with concrete pavement; use #4 rebar for tie-in at yard curb locations. If asphalt pavement is used, a larger 48" wide curb shall be installed at all trailer parking locations; this curb shall be 8" thick with a 12"x12" curb along the outside edge, tied in with rebar @ 18" O.C. vertically and one horizontal bar continuous.

02 00 07 Sidewalks
Minimum 4" crushed aggregate base—assume 8" crushed aggregate base as basis of bid. Assume 4" thick concrete, 4,500 psi for sidewalk section unless Geotechnical Report advises otherwise.

02 00 08 Storm drainage
- Storm water drainage shall comply with local regulations and site conditions.
- The storm water return period shall be designed as per local Code.
- Design preference is for all stormwater to pond on pavements without additional retention or detention on-site, unless local Code precludes otherwise.
- All underground storm pipe and drainage structures shall be constructed using reinforced concrete materials.
- All catch basin covers / manholes shall be constructed from heavy duty iron, as manufactured by East Jordan Iron Works, Neenah Foundry or similar.
- Roof drainage shall be designed for surface discharge on to pavement, unless local Code does not permit such discharge.
- The yard shall have a maximum 1.0% slope away from the building, to 60 feet perpendicular from all building(s) exterior walls (a/k/a "dock aprons"); beyond that, the yard shall have a minimum 1.5% slope and maximum 2.5% slope, to facilitate drainage.
- Entrance and exit driveways shall be in accordance with the plans and shall not exceed a continuous slope of 5% maximum.
- Include water quality unit(s), as required by local Code, prior to discharge into municipal system.

02 00 09 Building Drainage
The intent is that the roof will drain via continuous gutter(s) at the eave location(s). The storm water will be carried through the gutters to downspouts mounted at the overhang height, evenly spaced along the eave. Downspouts should discharge on to pavement.

~~02 00 10 Concrete splash blocks~~
~~Provide and install 36" wide by 10'-0" long by 6" thick (minimum) concrete splash blocks at all roof drain leader discharges at landscaped areas.~~

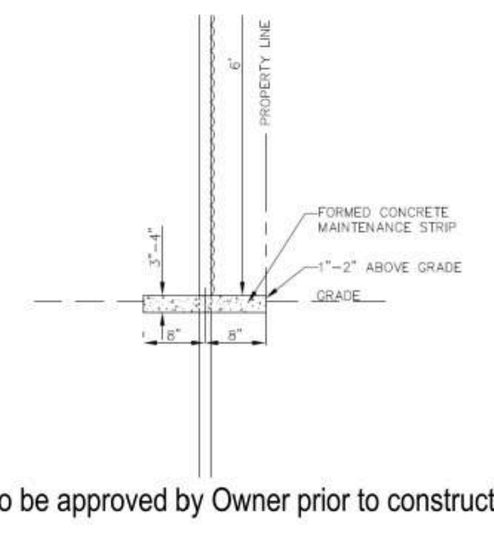
02 00 11 Site Grounding
Ground all steel columns. ~~Provide measurement pits at every corner in the exterior of the building.~~

PROJECT CRITERIA

02 00 12 Electrical Utilities Grounding
Provide grounding for utility connection as required. Provide measurement pit, only if required by local utility company.

~~02 00 13 IT Room Utilities Grounding~~
~~Provide copper grounding bar and solid copper strap at server (IT Room) room to meet Owner requirements.~~

02 00 14 Fencing & Gates
- Provide 6'-0" high, 9 gauge galvanized chain link fence at perimeter of property plus three (3) lines of barbed wire, unless local ordinance requires alternative material(s).
- Bottom of chain link fence must have continuous tension wire, within 3" of bottom fabric.
- Include continuous top rail.
- Line posts to be driven into ground a minimum of 48" and all end, terminal and gate posts imbedded in concrete foundations.
- Maximum 1" clearance between finished grade and bottom fabric of fence.
- Include gates with access control (badge reader) and electric operators for trucks, cars and personnel access per drawing. Size posts as required for load(s). Provide power and data to/from each operator as required for access control. Include 72" high gooseneck(s) at inbound / outbound truck gate locations.
- Include turnstile(s) / ADA gate(s) as shown on Conceptual Site Plan;
  - Turnstile: model# HS439-S-PC as manufactured by Controlled Access.
  - ADA gate: model# HS336-ADA-PC-HD as manufactured by Controlled Access; include one [1] ADA gate for every turnstiles as shown.
  - All equipment to be galvanized finish to match adjacent fencing.
  - Include aluminum card reader mounting enclosure on both sides; electric operation on both ways via access control (badge reader).
  - Provide power and data to/from each operator as required for access control.
  - Contact Paul Hendlin @ Controlled Access, (330) 273-6185, paul@controlledaccess.com
- Include minimum 16" wide maintenance strip of 4" thick concrete, with fencing centered in strip, at all fence locations throughout project,



- Design of fencing and gate layouts to be approved by Owner prior to construction.

02 00 15 Landscaping
- Provide landscaping as required per Code minimum. Include landscaped buffer(s) where required by authorities having jurisdiction.
- Provide irrigation only if required per Code.
- Rock mulch installed over landscape fabric is preferred for all island area(s), as well as maintenance strips along building, fencing, behind curbs, etc. Maintenance strip at fence locations should be a minimum of 10'-0" wide. Rock mulch material typically 1x3 recycled limestone without fines.
- Refer to local ordinance with respect to any planting requirements.

02 00 16 Water supply

PROJECT CRITERIA

Refer to Division 15; domestic use only, no process water.

02 00 17 Sanitary drain
Refer to Division 15; domestic discharge only, with oil-water separator for drains only, connected to City sewer system.

02 00 18 Pavement striping
Include all pavement striping, in colors as required per local Code, for parking and yard areas ("yellow" preferred with "blue" at handicapped locations). This will include, but will not be limited to: auto parking spots, tractor parking spots, trailer parking spots, handicap spots, hatched areas, pedestrian walk paths, directional arrows, "no parking" verbiage, etc.

02 00 19 Handicap accommodations
Include handicap signage with posts, as per local Code, for all handicap parking spots. Include tactile pads at all entry points from sidewalk to parking / yard areas.

02 22 00 Building Demolition
Not used.

02 24 50 Foundations
As determined by the geotechnical investigation and subsequent report (see Section 00 31 32), include any foundation design and associated construction as recommended by the geotechnical engineer as part of Work. This may include but not be limited to the following: (i) deep foundations, (ii) driven piles, (iii) bored piles, (iv) caissons, (v) formed foundations, (vi) grade beams, (vii) trenched / earth-formed foundations, or the like.
Include excavation and compacted backfill using structural materials, imported as needed to achieve proper compaction.

DIVISION 03 – CONCRETE
All concrete work shall meet ACI specifications and requirements.
- Forms shall be provided as necessary to properly place all cast-in-place concrete to the sizes and dimensions required.
- Form work to meet the recommendation of ACI 347R as minimum requirements.
- All forms to be cleaned and a non-staining form oil applied before concrete placement.
- Install all pipe chases, conduits, electrical boxes, cavities, slots, sleeves, water stops, and other embedded parts as required.
- Exposed concrete formed surfaces shall receive a smooth flat-formed surface; all tie holes, honey combing and rough areas to be patched to match surrounding surfaces.
- Correction of flatness / levelness defects in the floor shall be corrected only be removal and replacement of the defective slabs. All areas requiring replacement will be identified by the testing laboratory and all corrected areas must be re-measured for final approval.
- Provide all material and equipment necessary to furnish the concrete reinforcement as shown on drawings.
- Reinforcing steel to be installed as per Architectural/Structural Engineer's drawings, specifications and ACI 315-65 requirements.
- Provide shop drawings for review by Owner. These shop drawings should also be reviewed by the structural engineer.
- Reinforcement to be free to excessive rust, loose scales or other coating of any character which would reduce or destroy the bond.
- Reinforcing shall be deformed bars, grade 60, ASTM A 615. Reinforcing shall be installed in all concrete footings, foundations, floors and stoops as noted on structural drawings per ASTM A 185. Provide appropriate metal or plastic chair for supporting of reinforcing.
- Reinforcement to be positioned to maximize for designed structural effect, and comply with CRSI Standards.
- Provide all material and equipment necessary to complete all cast-in-place concrete as shown on plans.
- Cast-in-place concrete to be installed as designed on the final architectural and structural engineer drawings.
- Concrete shall conform to ASTM C94 requirements.

PROJECT CRITERIA

- Concrete to be delivered by an approved redi-mix supplier and a design mix data sheet provided for each compressive strength used in work. Fly-ash permitted only at following exterior areas: sidewalks, dolly pads, aprons, curbs, fuel islands or pavement.
- Specified concrete compressive strength to be obtained during the 28 day cure period. Contractor to provide testing laboratories services.
- Exterior concrete (sidewalks, dolly pads, dock aprons and ramps) to receive a light broom finish at right angles to the traffic pattern and sloped as noted on the plans. Provide expansion joints and saw joints using good engineering practice.
- All exposed exterior concrete to be air-entrained.
- Provide saw joints at the dock warehouse immediately as possible to prevent shrinkage cracking of the slab, to depth per ACI Standard. Saw joints shall be placed at a maximum of 12-foot centers, each way. Note: use of metal formed keyways is not allowed. Load transfer shall be provided by the use of smooth metal dowels.
- Minor surface cracking of the building floor (i.e., office, dock and shop maintenance) concrete slabs caused by shrinkage and deemed to be acceptable by FX architect or project manager shall be thoroughly routed out, cleaned and properly sealed using Versa Flex 75, grey.

03 00 01 Warehouse / Dock floors
- Floors shall be minimum 6" thick, 4,000 psi compressive strength concrete. Include 11" thick concrete floor along all perimeter walls to approximately 5'-0" in from edge.
- Include 10-mil vapor barrier with taped seams and all penetrations sealed, including perimeter of slab(s).
- Include minimum 6x6 welded-wire mesh ("WWM") for reinforcing. Install WWM in middle of floor slab. Install slab reinforcing as recommended by Structural Engineer of record.
- Finish concrete floor shall have a hard trowel smooth finish and include applications of dust-proofing sealer compound that will aid to increase brightness (to be applied at areas not receiving a floor finish); use L&M 'Seal Hard' (or similar product as pre-approved by Owner prior to application).
- Provide polyurea sealant, full depth, at all exposed concrete floor slab joints. Overfill joint as per manufacturer's installation instructions and cut flush, using stain prevention film as recommended.

~~03 01 01 Shop floors~~
- ~~Floors shall be minimum 8" thick, 4,000 psi compressive strength concrete.~~
- ~~Include 10-mil vapor barrier with taped seams and all penetrations sealed, including perimeter of slab(s).~~
- ~~Include minimum 6x6 welded-wire mesh ("WWM") for reinforcing. Install WWM in middle of floor slab. Install slab reinforcing as recommended by Structural Engineer of record.~~
- ~~Provide polyurea sealant, full depth, at all exposed concrete floor slab joints. Overfill joint as per manufacturer's installation instructions and cut flush.~~
- ~~Finish concrete floor shall be a polished concrete with sealer / densifier applied to have glossy look, and anti-slip in top coat; use L&M 'Seal Hard' (or similar product as pre-approved by Owner prior to application).~~

~~03 00 02 Office area floors~~
- ~~Floors shall be minimum 4" thick, 4,000 psi compressive strength concrete.~~
- ~~Include 10-mil vapor barrier with taped seams and all penetrations sealed, including perimeter of slab(s).~~
- ~~Include minimum 6x6 welded-wire mesh ("WWM") for reinforcing. Install WWM in middle of floor slab. Install slab reinforcing as recommended by Structural Engineer of record.~~
- ~~Provide polyurea sealant, full depth, at all exposed concrete floor slab joints. Overfill joint as per manufacturer's installation instructions and cut flush.~~
- ~~Finish concrete floor shall be a polished concrete with sealer / densifier applied to have glossy look, and anti-slip in top coat; use L&M 'Seal Hard' (or similar product as pre-approved by Owner prior to application).~~

03 00 03 Column diamonds
Wrap felt strips with removable cap ("zip strip") around column diamonds; remove cap and install silicone sealant upon proper cure.

CROWN ENTERPRISES LLC

STATE OF GEORGIA
JON TALTY
CERTIFICATE NO. RA 017066
REGISTERED ARCHITECT

NO.:	ISSUED FOR:	DATE
1	PERMIT	06/27/2025
	BID	08/04/2023

OKW Architects

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CROWN MORELAND AVENUE MAINTENANCE SHOP

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ATLANTA, GEORGIA

PROJECT CRITERIA

DRAWN BY: BD CHECKED: ES/NS

DATE: 01/03/2024 SHEET NO.:

PROJ. NO.: 22129 G201

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PROJECT CRITERIA

03 00 04 Shrinkage
Concrete floors shall be saw-cut to control initial shrinkage per ACI recommendations and filled with a semi-rigid polyurea sealant, cut flush to finish floor slab. Construction / cold joints shall be smooth-doweled on 18" centers.

03 00 05 Concrete landings and stoops
Provide 8" thick, 8'-0"x16'-0" minimum, 4,500 psi concrete landings and stoops at all exterior stairs / doors. Include two [2] bollards for protection at each exterior stair / door. Include foundations for stoops as required to below local frost depth, at grade-level man doors only.

03 00 06 Ramp retaining walls
Where needed, ramp wall(s) shall be cast-in-place reinforced concrete; Provide height of concrete wall to serve as guardrail per safety codes.

~~03 40 01 Insulated precast walls~~
~~All new exterior walls shall be factory-fabricated precast construction, insulated to meet current Energy Code. All openings shall be factory-fabricated; field cutting of openings will not be allowed unless Structural Engineer provides pre-approval of same.~~

- ~~At Contractor's option, provide wall-bearing or steel-bearing precast panels. Contractor shall specify which construction method is being utilized in their base bid.~~
- ~~Provide wall thickness as designed by Structural Engineer.~~
- ~~Provide full-height panels, from finish floor elevation to top of wall elevation. Design-preference is to have panels sit on top of foundation wall at finish floor height, so precast installation is not hindered by floor slab placement.~~
- ~~Provide relief-joints in profile and pattern on exterior at new office / break area to match existing office area.~~
- ~~Provide through-wall scuppers for roof overflow, in quantity as determined by Mechanical Engineer.~~
- ~~The design preference is to keep the panels as wide as practical; the wider the panel, the fewer panel joints for future maintenance.~~
- ~~Include sealant on both sides of panel joint(s), using two-part polyurethane (paintable) material.~~
- ~~Include reglet(s) as required for flashing / roofing installation.~~
- ~~Provide elastomeric coating (2-coats) to exterior side of precast, upon completion of sealant work, with proper cure period. This includes the back side of any roof parapets, if exposed to weather. Assume two-color paint scheme for exterior, colors TBD.~~

DIVISION 04 – MASONRY
Not used.

DIVISION 05 – METALS
Seismic codes shall be utilized for the design of the building structure per local seismic codes.

~~05 00 01 Structural System~~
~~Conventionally-framed steel structure using columns, joist girders and bar joists per Engineer's design (minimum bay spacing as shown on Conceptual Drawings) in accordance with the latest edition of AISC Steel Construction Manual (v15.1). Open web steel joists and joist girders shall be utilized and coordinated with MEP trades so as not to interfere with installation of these systems. Minimum clear height must be maintained through warehouse.~~
~~Building Clear Height shall be 13'-0" AFF.~~
~~Building fabrication and erection to be performed by AISC-Certified firm(s), unless alternative vendors pre-approved by Owner in writing.~~

05 00 02 Structure Design

PROJECT CRITERIA

~~07 01 01 Insulated metal panels ("IMP")~~
~~Provide for 3" minimum thickness (or as determined by local Code) on exterior of terminal office area, at all 3 sides. IMP should be similar to Kingspan KS42SL, 42" coverage, vertical orientation, 1/8" reveal, Shadowline profile on exterior and interior, 26-gauge thickness on exterior and interior, color: Ascot White, with stucco embossed texture.~~

07 00 04 Joint sealants

- Include sealant as needed for all gaps, cracks, joints, etc. to provide an air-tight and leak-free facility, or as further described herein. All sealants shall by installed using the "dry tool" method. No wetting to shape sealants will be allowed. Sealants used shall be as recommended by designer and installed as per manufacturer's installation instructions, including all appropriate prep work.
- Include polyurea sealant at all exposed, interior floor joints.

~~07 00 05 Roof hatch~~
~~Provide and install one [1] roof hatch above new office area only if required per Code, sized at 2'-6" x 3'-0" minimum opening. Include roof ladder, cage, and other safety devices as required to access roof from interior office area. Field-paint all metal fabrications with two [2] coats in "safety yellow" color.~~

~~07 50 01 Membrane roofing~~
~~At Contractor's option, provide fully-adhered or mechanically-fastened, 60-mil, single-ply EPDM membrane roof installed over iso-insulation, in thickness to meet current energy code. Contractor shall specify which construction method is being utilized in their base bid.~~
~~The roof system will include a "no dollar limit" warranty, without restrictions, per Section 00 45 04.~~
~~Include all flashings, sealants, and other components for a complete, leak-tight system.~~
~~Include through-wall roof scuppers for overflow, in locations as determined by Engineer.~~
~~Include roof-sump drains at side walls, for drainage via internal PVC pipe, similar to existing construction.~~

DIVISION 08 – OPENINGS
Refer to door schedule (if provided) or Drawings for location(s) for loading doors, overhead doors and exterior man doors.
All exterior doors to meet egress per local Building Code.

08 00 01 Exterior service man doors

- Refer to (conceptual) Floor Plan(s) for location(s) and Door Schedule, if provided, for size(s).
- All exterior doors (except storefront locations) shall be weather-stripped, thermally broken hollow metal doors with welded frames. Provide ADA-accessible hardware.
- Include insulated glass where glazing as shown.
- Apply two coats of finish paint at doors and frames; exterior color to match PEMB color, and interior color as per DIVISION 09.
- Include opening(s) for access control at frames where may be required by Owner.

08 00 02 Interior metal doors

- Refer to Conceptual Floor Plan for location(s) and Door Schedule for size(s).
- All interior doors (except storefront locations) to be hollow metal doors with welded frames. Knock-down frames will not be allowed. Provide ADA-accessible hardware.
- Include safety window(s) in narrow lights for any and all employee entrances.
- Apply two [2] coats of finish paint (field-applied) at doors and frames; color to be selected by Owner.
- Include opening(s) for access control at frames where may be required by Owner.

08 00 03 Emergency (egress) doors
All emergency doors must have panic bar and local alarm (UL listed).

PROJECT CRITERIA

- ~~Provide framed lid (dust cap) at 12'-0" above finished floor using metal studs at 2'-0" O.C. where applicable [inside shop building].~~
- ~~Provide 8" thick batt insulation, continuous above ceiling, at all build-out areas.~~

~~09 00 10 Wall paint~~

- ~~Walls shall receive satin-finish Sherwin Williams latex enamel paint (SuperPaint).~~
- ~~Two (2) coats of finish paint over minimum one [1] coat of primer.~~
- ~~Field paint color = Sherwin Williams "SW 7064 – Passive" satin finish—provide sample for approval.~~
- ~~All materials to comply with ASTM, PDCA, and ASA Standards.~~
- ~~Provide no visible brush or roller strokes or marks.~~
- ~~Clean window glass and other paint splattered surfaces.~~
- ~~Upon completion, provide partially used containers of paint and/or stain. Each container must contain no less than 3/4 volume of product from its original container.~~

~~09 00 11 Suspended acoustical ceiling~~

- ~~Suspended ceiling system to be on 2'-0"x4'-0" grid, typical throughout, centered in room(s).~~
- ~~Use standard 15-16" wide grid system as manufactured by USG or similar in "white" color; include all ties, clips, hold-downs, and/or fasteners as required for a complete installation.~~
- ~~Ceiling pads to be 2'-0"x4'-0"x7/8" thick, USG "Radar Open Plan #22325" or similar, with square edge.~~
- ~~Standard ceiling height to be 10'-0" high, above finished floor elevation.~~
- ~~All materials to comply with ASTM, USDA and UL Standards.~~
- ~~Space hangers no more than 4'-0" O.C. In project locations subject to seismic activity or as required by Code, provide extra hangers as required.~~
- ~~Install tile hold-down clips in all vestibules and within a 20'-0" radius of doors to the exterior.~~
- ~~Upon completion, provide a maintenance stock of ceiling panels equal to 3% of materials used. Material shall be from the same lot and dye number of the product installed.~~

~~09 00 12 Hard-lid ceiling~~

- ~~Painted gypsum board ceiling at 10'-0" height, above finished floor elevation.~~
- ~~Two [2] coats of Sherwin Williams's flat epoxy paint over primer on ceiling; provide for rated room(s) where required per Code(s).~~
- ~~Hard-lid ceiling(s) required at all restrooms, and per Reflected Ceiling Plan (if provided).~~
- ~~Finish paint color = Sherwin Williams "SW7006 – Extra White" epoxy.~~

09 00 13 Exterior hollow metal door and frames finishes

- Shall receive sprayed enamel paint finish, two [2] coats minimum, of Sherwin Williams Industrial Enamel paint (1-part) or similar over factory-applied primer.
- Provide no visible brush or roller strokes or marks.
- Do not paint over Code-required labels.
- Clean window glass and other paint splattered surfaces.
- (Interior side) finish paint color = Sherwin Williams "SW 7068 – Grizzle Gray" semi-gloss finish—provide sample for approval.
- (Exterior side) finish paint color = "match PEMB 'white' color" semi-gloss finish.

09 00 14 Miscellaneous steel paint

- All steel railings, interior guard rails, protective pipe bollards, rooftop equipment supports, ladders, exposed gas piping, etc. shall receive a minimum of two [2] finish coats of Sherwin Williams Industrial Enamel paint (1-part) or similar over factory-applied primer.
- Provide no visible brush or roller strokes or marks.
- Finish paint color = Sherwin Williams "SW4084 – Safety Yellow" semi-gloss finish.

~~09 00 15 Porcelain tile~~

PROJECT CRITERIA

Roof design loads shall include allowance for roofing material(s), roof insulation, fire protection system, lubrication lines and equipment, as well as electrical and lighting system. Snow load should also be calculated per local Code.

05 00 03 Metal Paint
Exposed structural elements throughout, consisting of columns, secondary wall framing (girts / purlins, etc.) and roof trusses (if used), must be factory-primed and subsequently field-finish painted with two [2] finish coats of Sherwin Williams Industrial Enamel paint (1-part) or similar, in white color.

05 00 04 Structural system for mezzanines
Not used; ~~provide dust cap at build-out within shop building.~~

05 00 05 Metal Deck
~~Provide and install metal 'B' decking where required for membrane roofing installation. Sizing and thickness of metal deck as per Structural Engineer to account for loading as per Section 05 00 02.~~
Provide and install metal roofing, with 180-degree standing seam, as part of Pre-Engineered Metal Building package.

05 00 06 Bollards

- All bollards must be set in foundations below the floor; "bolt-in" type bollards will not be permitted.
- Provide [2] – 6" diameter SCH-80 by 48" high (above grade) concrete filled bollards at interior side of each overhead door in warehouse / dock areas; field-paint bollards with two [2] finish coats in "safety yellow" color.
- Provide [2] – 8" diameter SCH-80 by 48" high (above grade) concrete filled bollards at exterior locations as follows: ramp where fork lift traffic would occur, dock stairs, building corners exposed to yard traffic, either side of man doors, etc.; field-paint all bollards with two [2] finish coats in "safety yellow" color.
- Provide [2] – 8" diameter SCH-80 by 48" high (above grade) concrete filled bollards at interior and exterior side of each overhead door in shop; field-paint bollards with two [2] finish coats in "safety yellow" color.
- Provide [4] – 8" diameter SCH-80 by 48" high (above grade) concrete filled bollards at fire hydrant locations and field-paint these bollards only in "safety red" color with two [2] finish coats.

05 00 07 Guard Rails

- Provide guard rail(s) on base plates (bolted to floor slab) at all locations where forklift or vehicular traffic has the possibility to damage walls; these areas could include, but are not limited to: building end walls or demising walls.
- Guard rail(s) should be of similar construction to "single-rail" highway style, or similar.
- All interior guard rails shall be field-painted with two [2] finish coats in "safety yellow" color; any exterior guard rail should be galvanized.

05 00 08 Steel framed stairs
Provide 4'-0" (1.22m) wide stair at each dock door / elevated egress exit, with area of refuge if required by local Code, using steel grate for treads and landing areas. Provide guardrail(s) in configuration with local Code. All exterior stairs and handrails shall be galvanized. Provide bollard protection per 05 00 06.

~~05 00 09 Truck heater posts~~

- ~~Provide one [1] truck heater post for every two [2] tractor parking spots.~~
- ~~Truck heater post shall consist of 3"x3"x3/16" steel tube, 54" high, welded on 8"x8"x3/4" base plate. Base plate shall have four [4] 0.75" holes for concrete expansion anchors and one [1] pass through hole for electrical conduit. Coordinate size of conduit with electrical contractor. There shall be two [2] 0.50" M/S solid rod, welded on either side, in a 6"x6" 'U' configuration for the purposes of hanging electrical extension cords. The top of the post shall have a 3"x3"x5/16" top cap fabricated from steel, welded and ground smooth.~~
- ~~Post(s) shall be primed and finish painted "safety yellow" in color (minimum 2 finish coats).~~
- ~~Post(s) shall be mounted with [4] corrosion-resistant concrete expansion anchors, behind curb. At raised island locations, post(s) may be mounted directly to raised concrete curb without concrete footing as shown below,~~

PROJECT CRITERIA

~~08 00 04 Office doors~~

- ~~Provide and install storefront-style wide stile glazed clear-anodized aluminum frames at office doors where shown. Include aluminum-framed doors in said framed openings. Provide lever-latch style locking hardware.~~
- ~~Provide welded frames (painted) at stud/drywall openings. Include solid-core plastic laminate slabs at interior office door locations; provide 1/2-lite glass at private office and conference room doors. Provide locking hardware.~~
- ~~Include opening(s) for access control at frames where may be required by Owner.~~

~~08 00 05 Main Entrance doors~~
~~Clear-anodized aluminum wide stile wall/storefront system with 1" insulated, Low-E reflective, solar tint glass (SolarBan® 60, 'Solargray' color). Provide safety glazing as required by code. Provide bent tube pulls, with locking cylinder. Include thermally broken frame and door.~~

08 00 06 Windows in metal doors
Provide hollow metal framed interior windows with 1/4" (6.35mm) clear glass at all interior doors; Provide safety glazing as required by Code.

08 00 07 Doors locksets

- Commercial grade, heavy duty, lever action locksets with standard master key locking system, "Best" cores or similar, with Schlage "S" Series (interior) and "D" Series (external) cylinders.
- Dull chrome finish.
- As an option, the Owner and/or Tenant, may wish to install access control at certain frames.
- Coordination with the Owner is needed prior to frame fabrication.

08 00 08 Door stops
Install commercial-grade, floor-mounted door stops at all doors.

~~08 00 09 Window frames~~
~~Provide clear anodized aluminum window frames at all interior and exterior windows.~~
~~Include thermally broken frames at all exterior openings.~~

08 00 10 Exterior windows

- Clear-anodized aluminum exterior window frame system with 1" double-panel, low-e insulated, reflective, solar tint glass (SolarBan® 60, 'Solargray' color). Provide sample for approval by Owner.
- Typical window sizes as shown on elevations; window locations to be coordinated with PEMB manufacturer to locate between wall girts.
- Install insulated glass for all locations where a conditioned space abuts an unconditioned or semi-heated space.

~~08 00 11 Interior windows~~

- ~~Clear-anodized aluminum interior window frame system with 1/4" single pane clear glass.~~
- ~~Typical window height on glass partitions to be from finish floor to ceiling height, typical at office area.~~

08 00 12 Overhead doors, warehouse / dock

- Provide 26-gauge steel overhead coiling doors, uninsulated, top- and side-draft stops, with 4:1 chain hoist reduction, as manufactured by Janus International (Asta Door) or similar. Refer to plan for size(s) required.
- Include high-cycle / high-use package, with heavy-duty track option.
- Include electric operators with push button operator mounted on wall and safety eye(s) at ramp (grade-level) door(s) only. All other locations to have manual, chain-hoist operation.

~~08 00 13 Overhead doors, shop~~

PROJECT CRITERIA

- ~~All materials to comply with TLA and ANSI Standards.~~
- ~~Porcelain tile shall be integrally colored throughout; ceramic tile will not be permitted for use in the facility.~~
- ~~All restroom walls shall receive full height porcelain wall tile laid in a 1/3 running bond pattern; this includes full-height tile walls at shower rooms (if applicable).~~
- ~~Utilize tile transition sanitary cove (by Schluter or similar) from tile wall to floor, typical for room perimeters. Include pre-fabricated corner pieces as needed.~~
- ~~Porcelain tile to be as manufactured by Florida Tile "Roman Gray" in 12"x24" size.~~
- ~~Grout to be as manufactured by TEC Power Grout "#941—Raven."~~
- ~~Porcelain tile to be installed using thin-set mortar; butt and fit all tile tight to openings.~~
- ~~Grout all tile using manufacturer's recommended materials; install color grout at all tile joints.~~
- ~~Clean all tile surfaces upon completion of work removing all residual grout from surface of tiles and leaving the tile surfaces polished. Apply one [1] coat of sealant at all tile walls with product as recommended and approved by tile manufacturer.~~
- ~~Upon completion, provide a maintenance stock of ceiling panels equal to 3% of materials used. Material shall be from the same lot and dye number of the product installed.~~

~~09 00 16 Vestibule tile~~

- ~~At entry vestibule, provide high-traffic stone tile (similar to Ergon – Stone Project, in 12"x24" size) with walk-off mat in center of walk aisle, sized to approximately 40% of the total vestibule space.~~
- ~~Grout to be as manufactured by TEC Power Grout "#941—Raven."~~
- ~~Walk-off mat to be Pedimat® "M1" by Construction Specialties Inc. or similar, in mill finish, with heavy duty carpet for tread insert.~~
- ~~Tread insert to be heavy duty carpet in "Wrought Iron" color.~~

~~09 00 17 FRP panel~~
~~Wall areas immediately surrounding the janitor / utility sink(s) shall receive 72" high Fiber Reinforced Plastic panels for moisture protection, in "white" color. This should behind the sink as well as (minimum) 48" to either side. Seal perimeter and all seams with clear silicone sealant.~~

09 00 18 Steel paint

- All exposed building steel shall receive a minimum of two [2] coats semi-gloss Sherwin Williams Industrial Enamel paint (1-part) or similar, in "white" color over factory-applied primer, at all exposed locations.
- Provide no visible brush or roller strokes or marks.
- Finish paint color = Sherwin Williams "SW7006 – Extra White" semi-gloss finish.
- All columns at fire extinguisher locations shall be painted with 24" high band in "safety red" color, using semi-gloss Sherwin Williams Industrial Enamel paint (1-part) or similar, over factory-applied primer.

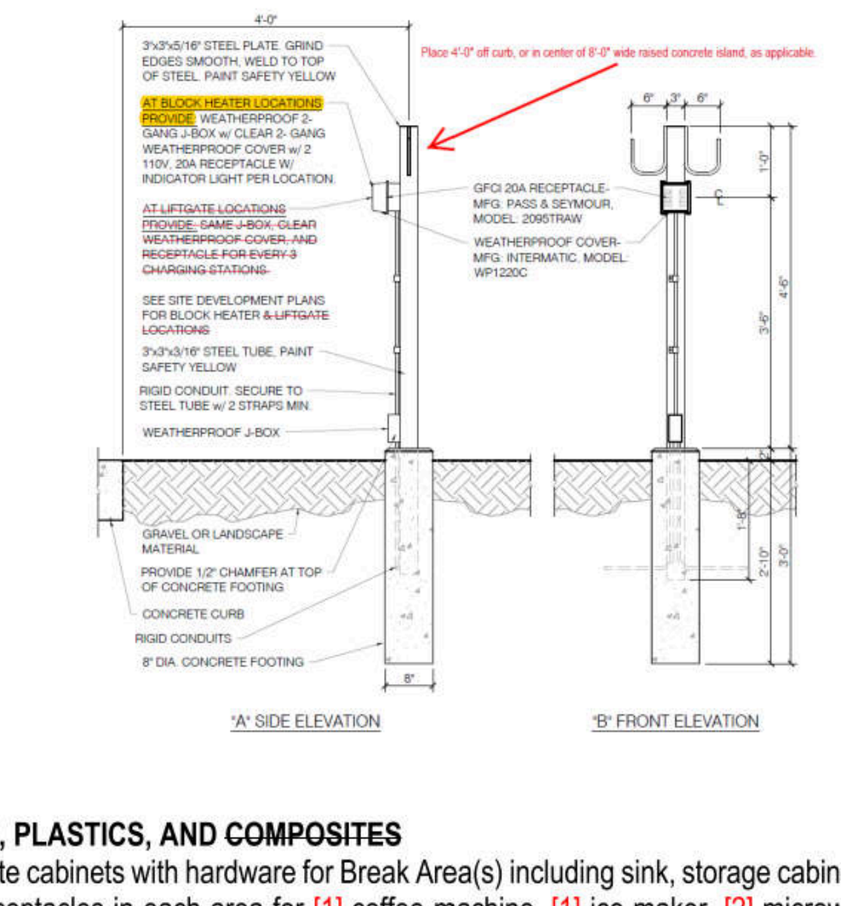
09 00 19 Exterior man doors

- Shall receive a minimum of two [2] coats semi-gloss Sherwin Williams Industrial Enamel paint (1-part) or similar, to doors and frames over factory-applied primer.
- Provide no visible brush or roller strokes or marks.
- Do not paint over Code-required labels.
- Clean window glass and other paint splattered surfaces.
- (Interior side) finish paint color = Sherwin Williams "SW7068 – Grizzle Gray" semi-gloss finish—color selection by Owner.
- (Exterior side) finish paint color = "match PEMB color" semi-gloss finish.

09 00 20 Paint all protective pipe bollards

- All bollards, with exception to hydrant locations, shall receive a minimum of two [2] coats semi-gloss Sherwin Williams Industrial Enamel paint (1-part) or similar, from floor to underside of deck, in "safety yellow" color, over factory-applied primer.
- Finish paint color = Sherwin Williams "SW4084 – Safety Yellow" semi-gloss finish.

PROJECT CRITERIA



DIVISION 06 – WOOD, PLASTICS, AND ~~COMPOSITES~~

Construct wood laminate cabinets with hardware for Break Area(s) including sink, storage cabinets, microwave cabinets with dedicated electrical receptacles in each area for [1] coffee machine, [1] ice maker, [2] microwave ovens, [1] refrigerators, and [2] vending machines. Include sufficient base cabinets with countertop and wall cabinets for Break Area(s) as prescribed above; include separate laminate colors as selected by Owner.

- Millwork to be plastic laminate by WilsonArt "Dove Gray D92-60"
- Countertops to be plastic laminate by WilsonArt "Steel Mesh 4879-38"

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

Provide a leak-free and weather-tight enclosure using acceptable materials per Owner requirement and/or Code.

07 00 01 Expansion Joint Cover Assemblies
Install approved expansion joint control as per NRCA guidelines. Assume wall and roof expansion joint(s) at locations where existing building will meet new addition (if applicable).

07 00 02 Roof insulation

- Provide and install vinyl-backed (white in color) batt insulation, in 2" minimum thickness at unconditioned areas, or thicker as required by local Energy Code.
- Provide and install vinyl-backed (white in color) batt insulation, in 6" minimum thickness at conditioned areas, or thicker as required by local Energy Code. Include "bag & sag" detailing as may be recommended by PEMB.
- ~~Provide and install roof deck iso-insulation in thickness as recommended to meet current energy code. Include taper(s) as required to have positive drainage to all roof sumps. No standing water will be allowed on roof membrane surface.~~
- Provide and install batt insulation directly above drop ceiling at conditioned areas, in 6" thickness, in addition to roof insulation noted above.

07 00 03 Wall insulation
Provide and install vinyl-backed (white in color) batt insulation, in 4" minimum thickness, or thicker as required by local Energy Code, at conditioned space(s). Include continuous insulation requirements as needed per local Energy Code.
Provide and install batt insulation at all partitions per Section 09 00 08.

PROJECT CRITERIA

- ~~Provide 24-gauge steel (both sides) overhead sectional doors, insulated, fully weather-stripped, with high-lift hardware and high-cycle springs (100K-cycle minimum), as manufactured by Wayne Dalton, Overhead Door Co. or similar.~~
- ~~Include electric operators for each door, with push button operator mounted on wall and safety eye(s).~~
- ~~Include vision lites and sizing as per (conceptual) Drawings; the intent is that 50% of the total opening is vision lite(s) for daylight into shop building.~~

DIVISION 09 – FINISHES

Refer to Finish Schedule below.

- ~~Office [terminal + shop]~~
  - ~~Floors: polished concrete throughout, see Section 03 00 02.~~
  - ~~Walls: 20-ga. stud / drywall (09 00 05), painted (09 00 10) with 4" base (09 00 03), or aluminum framed + glass (09 00 06) – refer to (conceptual) Plans.~~
  - ~~Insulation: at all walls (09 00 08) and ceilings (09 00 09), for sound and energy conservation.~~
  - ~~Ceiling: acoustic lay-in (09 00 11), at 10'-0" height.~~
  - ~~Doors: solid core plastic laminate or wide-stile (08 00 04) with hardware (08 00 07).~~
  - ~~Lighting: see Section 16 50 02.~~
  - ~~Provide aluminum storefront glazed wall with door at vestibule air lock.~~
- Restrooms [terminal ~~+ shop~~]
  - Floors: polished concrete throughout, see Section 03 00 02.
  - Walls: porcelain tile from floor to ceiling (09 00 15) over 20-ga. stud / tile backer (09 00 05).
  - Insulation: at all walls (09 00 08) and ceilings (09 00 09), for sound and energy conservation.
  - Ceiling: stud / drywall with epoxy paint (09 00 12), at 10'-0" height.
  - Doors: hollow metal (08 00 02) with louvers and hardware (08 00 07).
  - Lighting: see Section 16 50 02.
- ~~Break Area~~
  - ~~Floors: polished concrete throughout, see Section 03 00 02.~~
  - ~~Walls: 20-ga. stud / drywall (09 00 05), painted (09 00 10) with 4" base (09 00 03), or aluminum framed + glass (09 00 06) – refer to (conceptual) Plans.~~
  - ~~Insulation: at all walls (09 00 08) and ceilings (09 00 09), for sound and energy conservation.~~
  - ~~Ceiling: acoustic lay-in (09 00 11), at 10'-0" height.~~
  - ~~Doors: wide-stile aluminum (08 00 04) with hardware (08 00 07).~~
  - ~~Lighting: see Section 16 50 02.~~
  - ~~Provide millwork / electrical as per DIVISION 06.~~
- Warehouse / Dock
  - Floor: steel-trowel finish concrete floor with dust-proofing sealer application (03 00 01).
  - Walls: white-vinyl backed insulation (07 00 03) steel painted white (09 00 18).
  - Insulation: see DIVISION 07.
  - Ceiling: white-vinyl backed insulation (07 00 02) steel painted white (09 00 18).
  - Doors: hollow metal (08 00 02) with hardware (08 00 07). Narrow vision lites required into occupied areas.
  - Lighting: see Section 16 50 02.
- ~~Shop~~
  - ~~Floor: polished concrete throughout, see Section 03 00 02.~~
  - ~~Walls: vinyl-backed (white) insulation full height, with plywood liner to 10'-0" AFF, and all steel painted white.~~
  - ~~Insulation: see DIVISION 07.~~
  - ~~Ceiling: white-vinyl backed insulation (07 00 02) steel painted white (09 00 18).~~
  - ~~Doors: hollow metal (08 00 02) with hardware (08 00 07). Narrow vision lites required into occupied areas.~~
  - ~~Lighting: see Section 16 50 02.~~

~~09 00 01 Epoxy flooring~~

PROJECT CRITERIA

- All bollards at hydrant locations shall receive a minimum of two [2] coats semi-gloss Sherwin Williams Industrial Enamel paint (1-part) or similar, from floor to underside of deck, in "safety red" color, over factory-applied primer.
- Provide no visible brush or roller strokes or marks.
- Finish paint color = Sherwin Williams "SW4081 – Safety Red" semi-gloss finish.

~~09 00 21 IT Room flooring~~

- ~~At IT Room, utilize static dissipative vinyl-composition tile ("VCT").~~
- ~~Tile shall be 12"x12" with 1/8" thickness.~~
- ~~Material shall be Armstrong Flooring, Excelon SDT in "51959 Coal" color, or similar.~~
- ~~Utilize vinyl base for room perimeters (09 00 03).~~

~~09 00 22 Plywood Panels~~

- ~~At all shop and inspection areas, provide 3/4"-thick fire-rated plywood from finish floor to 10'-0" height at perimeter of room(s). Apply primer and two [2] finish coats in color as selected by Owner.~~
- ~~Finish paint color = Sherwin Williams "SW7068 – Grizzle Gray" satin finish.~~

DIVISION 10 – SPECIALTIES

All materials to comply with ASTM, ADA Standards.
Provide concealed 2x solid fire-rated wood blocking and other reinforcement as needed, securely anchored to wall / ceiling framing for proper anchoring of specialties.

10 00 01 Partitions

- Solid phenolic core toilet partitions, doors/screens and urinal screens to be floor and/or wall mounted, with overhead bracing as required.
- Exposed manufacturer's markings or stamps are prohibited.
- Provide partitions by Bradley "Series 400 – Overhead Braced" in "Graphite Grafix – 006F" color.
- All hardware to be brushed / dull chrome finish.

10 00 02 Toilet accessories

- Provide grab bars and other handicapped accessories as required, in brushed / dull chrome finish.
- Provide one [1] manual-push foaming soap dispenser per each pair of sinks.
- Provide one [1] Kimberly-Clark Professional 39731 twin toilet tissue dispenser in each toilet compartment.
- Provide sanitary foot-operated door opener at interior side of each restroom / janitor room door if door swings open into room, similar to StepNpull, www.stepnpull.com.
- Provide one [1] electric "Xcelerator" hand dryer (stainless steel finish), with stainless wall guard for every sink in each restroom as per Code; minimum [1] hand dryer per restroom.
- Provide stainless steel framed, 18" wide x 42" high mirrors over each lavatory.

10 00 03 Signage

- Dock Doors: provide surface mounted signage above dock doors, inside and outside. 15"x15" 12-gauge aluminum plate in "white" color with 12" high vinyl cut numbers or letters in "black" color as sequenced by Owner.
- Restrooms: provide men/women signs at restroom entrance.
- Provide signage for electrical room, sprinkler room, etc. as required by Code Official.
- Include ADA-compliant signage, with braille as needed. Background color = yellow; lettering color = black.
- Include junction box for power / data at street-facing exterior wall, above storefront glazing, tied into site lighting circuit / timer – signage by others.

10 00 04 Fire Extinguisher Cabinets

- All semi-recessed fire extinguisher cabinets to meet NFPA regulations.
- Provide semi-recessed fire extinguisher cabinets at office areas.
- Cabinets shall have white enamel factory finish.

PROJECT CRITERIA

~~07 01 01 Insulated metal panels ("IMP")~~
~~Provide for 3" minimum thickness (or as determined by local Code) on exterior of terminal office area, at all 3 sides. IMP should be similar to Kingspan KS42SL, 42" coverage, vertical orientation, 1/8" reveal, Shadowline profile on exterior and interior, 26-gauge thickness on exterior and interior, color: Ascot White, with stucco embossed texture.~~

07 00 04 Joint sealants

- Include sealant as needed for all gaps, cracks, joints, etc. to provide an air-tight and leak-free facility, or as further described herein. All sealants shall by installed using the "dry tool" method. No wetting to shape sealants will be allowed. Sealants used shall be as recommended by designer and installed as per manufacturer's installation instructions, including all appropriate prep work.
- Include polyurea sealant at all exposed, interior floor joints.

~~07 00 05 Roof hatch~~
~~Provide and install one [1] roof hatch above new office area only if required per Code, sized at 2'-6" x 3'-0" minimum opening. Include roof ladder, cage, and other safety devices as required to access roof from interior office area. Field-paint all metal fabrications with two [2] coats in "safety yellow" color.~~

~~07 50 01 Membrane roofing~~
~~At Contractor's option, provide fully-adhered or mechanically-fastened, 60-mil, single-ply EPDM membrane roof installed over iso-insulation, in thickness to meet current energy code. Contractor shall specify which construction method is being utilized in their base bid.~~
~~The roof system will include a "no dollar limit" warranty, without restrictions, per Section 00 45 04.~~
~~Include all flashings, sealants, and other components for a complete, leak-tight system.~~
~~Include through-wall roof scuppers for overflow, in locations as determined by Engineer.~~
~~Include roof-sump drains at side walls, for drainage via internal PVC pipe, similar to existing construction.~~

DIVISION 08 – OPENINGS
Refer to door schedule (if provided) or Drawings for location(s) for loading doors, overhead doors and exterior man doors.
All exterior doors to meet egress per local Building Code.

08 00 01 Exterior service man doors

- Refer to (conceptual) Floor Plan(s) for location(s) and Door Schedule, if provided, for size(s).
- All exterior doors (except storefront locations) shall be weather-stripped, thermally broken hollow metal doors with welded frames. Provide ADA-accessible hardware.
- Include insulated glass where glazing as shown.
- Apply two coats of finish paint at doors and frames; exterior color to match PEMB color, and interior color as per DIVISION 09.
- Include opening(s) for access control at frames where may be required by Owner.

08 00 02 Interior metal doors

- Refer to Conceptual Floor Plan for location(s) and Door Schedule for size(s).
- All interior doors (except storefront locations) to be hollow metal doors with welded frames. Knock-down frames will not be allowed. Provide ADA-accessible hardware.
- Include safety window(s) in narrow lights for any and all employee entrances.
- Apply two [2] coats of finish paint (field-applied) at doors and frames; color to be selected by Owner.
- Include opening(s) for access control at frames where may be required by Owner.

08 00 03 Emergency (egress) doors
All emergency doors must have panic bar and local alarm (UL listed).

PROJECT CRITERIA

- ~~As manufactured by Sherwin Williams or similar, utilize General Polymers 3746 epoxy system: (i) 2-part base coat tinted in grey color (14-mil DFT); followed by (ii) clear 2-part epoxy mid coat (10-mil DFT) with four 1/4" color flakes (light grey, dark grey, black and tan, equal parts) in heavy broadcast (use 10-pounds per 250 square feet of floor area) over uncured mid coat; (iii) removal of loose flakes after mid coat has fully cured; followed by (iv) clear 2-part epoxy top coat (12-mil DFT) with anti-slip additive.~~

~~09 00 02 Carpet~~

- ~~Use commercial-grade nylon carpet tile, minimum 16"x16" size, provided at $17.00 per square yard.~~
- ~~Provide physical samples for Owner's selection.~~
- ~~Upon completion, provide a maintenance stock of ceiling panels equal to 3% of materials used. Material shall be from the same lot and dye number of the product installed.~~

~~09 00 03 Vinyl base~~

- ~~Use commercial-grade vinyl wall base in 4" height and 1/8" thickness; provide at drywall locations only, as manufactured by Roppe 700-series with toe base. Use prefabricated/pre-formed pieces at all corner locations. Provide color chart for Owner's selection.~~
- ~~Upon completion, provide a maintenance stock of ceiling panels equal to 3% of materials used. Material shall be from the same lot and dye number of the product installed.~~

~~09 00 04 Demising wall~~
~~Install liner panel over metal stud construction at wall from office area(s) facing warehouse space, on warehouse side only, in factory white finish, from 10'-0" AFF to underside of roof deck. Provide tight seal to underside of roof deck.~~

~~09 00 05 Interior (drywall) walls~~

- ~~Use minimum 20-gauge metal stud framing with 5/8" (16mm) type "X" gypsum board on each side of stud/gypsum partitions, and tape/mud to Level 4 finish.~~
- ~~Carry metal stud partitions to 12'-0" (3.66m) above finish floor, and gypsum board to 6" above ceiling, unless noted otherwise. Install supports as required tied to building structural components. Where rated, install wall assembly to underside of the roof deck with fire-safing as required per Code.~~
- ~~Provide soundproof mineral wool insulation to all walls (09 00 08).~~
- ~~Prepare and prime surfaces to receive paint finish.~~
- ~~Apply two [2] coats finish paint to all exposed gypsum board locations (09 00 10).~~
- ~~Finish paint color = Sherwin Williams "SW 7064 – Passive" satin finish—provide sample for approval.~~

~~09 00 06 Interior (glazed) walls~~

- ~~Interior walls and partitions shall be either aluminum framed / glazed partitions or stud/gypsum partitions as shown on drawings.~~
- ~~Use clear anodized framing with 1/4" (6.35mm) clear glass at glazed partitions, full height to underside of ceiling system.~~
- ~~Provide 4.5" high base framing to allow for electrical / data outlet installation.~~

09 00 07 Restroom walls
Restroom walls and partitions shall be 20-gauge metal stud with 5/8" moisture-resistant gypsum board; use tile backer board on tiled walls and prepare for ceramic tile.

~~09 00 08 Stud wall insulation~~
~~Insulate all stud/gypsum partition walls with soundproof mineral wool insulation between studs, from floor to top of wall. At exterior walls, use insulation with R-value(s) per local Code(s).~~

~~09 00 09 Drop ceiling insulation~~

PROJECT CRITERIA

- Fire Extinguishers shall be dry chemical type (10 lb. ABC).
- Location(s) to be determined by use / construction type in conjunction with local Code and Fire Marshall.

10 00 05 Fire Extinguishers

- Provide surface mounted fire extinguishers for all warehouse / dock, and shop areas (as applicable) per local Code, at building columns. See Section 09 00 18 for painting requirements.
- Fire Extinguishers shall be dry chemical type (10 lb. ABC), or as required per local Code and Fire Marshall.

10 00 06 Ground-Set Flagpoles

- Provide one [1] – 32'-0" high mill finish flag pole(s) and foundation base plus all hardware required for raising, lowering, attaching and locking flags, at exterior of office area.
- Each pole to be flood lit from ground and controlled on site lighting astronomical clock timer.

DIVISION 11 – EQUIPMENT
Dock equipment shall be installed at every loading door.

11 00 01 Dock Levelers

- ~~Hydraulic Pit Leveler: provide DLM (Systems Inc.) XL810-50-20 hydraulic pit levelers with 5" safety lip, with B424-11SF laminated bumpers, at each loading door location.~~
- ~~Mechanical Pit Leveler: provide DLM DM-658 with laminated bumpers; include pit pan for foundation forming.~~
- Edge-of-Dock Leveler: provide DLM HR-6620 with laminated bumpers.
- Contact Anne Brown @ Systems Inc., (800) 643-5423 x7901, annebrown@loadingdocksystems.com

~~11 00 02 Dock Locks~~

- ~~Provide and install TPR UniLock® Automatic Restraint as manufactured by Systems Inc., with interior & exterior "Edge" light communication system. Include cantilever brackets as needed; install at each loading door location.~~

~~11 00 03 Dock Controller~~

- ~~Provide and install iDock® controller as manufactured by Systems Inc., integrated into the pit leveler, dock lock, and overhead door operation. As doors are manual operation, include astragal-plate / door limit switch as needed to sensor if door is open or closed. Include all safety options as per Tenant's Exhibit C.~~

~~11 00 04 Dock Shelters~~

- ~~Provide and install Fairborn Series 2000 Rigid dock shelters, 24" projection, pressure-treated wood construction, with 36" head curtain, 22 oz. fabric at curtains, 40 oz. vinyl at head curtain pleats / side bottom reinforcements, 30" steel OD bumper guards, installed at all dock door locations. Coordination with dock leveler(s) will be required. Increase height at "super van" door locations to meet Tenant's requirements.~~
- ~~Contact Bob Hare @ Fairborn, (866) 858-3625, hareb@fairbornequipment.com~~

~~11 00 05 Trailer Stabilizing Jack~~

- ~~Provide and install a trailer jack stand for each loading door location, as manufactured by Butler Products Corporation, Model HST-400G38.~~

~~11 00 06 Dock Loading Light~~

- ~~Provide flexible LED dock loading light, with on/off switch, at each loading door location.~~

11 00 07 Wheel Locks

- Provide and install DLM Wheel Chock, molded style with chain, at each dock loading door location.

DIVISION 12 – FURNISHINGS
~~12 21 01 Light Filtering Roller Shades~~

CROWN ENTERPRISES LLC

STATE OF GEORGIA
JON TALTY
CERTIFICATE NO. RA 017066
REGISTERED ARCHITECT

NO.:	ISSUED FOR:	DATE
1	PERMIT	06/27/2025
	BID	08/04/2023

OKW Architects

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CROWN MORELAND AVENUE MAINTENANCE SHOP

2750 MORELAND AVENUE
ATLANTA, GEORGIA

PROJECT CRITERIA

DRAWN BY: BD CHECKED: ES/NS

DATE: 01/03/2024 SHEET NO.: G202

PROJ. NO.: 22129

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- ~~Furnish and install roller shade style blinds at all insulated windows.~~
- ~~Blinds to be manual in operation, with chain drive.~~
- ~~Blinds to be provided inside each individual window, between window framing.~~
- ~~Color / fabric to be selected by Owner, in 3% open.~~

DIVISION 13 – SPECIAL CONSTRUCTION
13 12 00 Pre-Engineered Metal Building
It is the intent to provide a Pre-Engineered Metal Building ("PEMB") for the structure construction. The PEMB shall have the structural steel components factory primed in "grey" color. The roof(s) shall be of standing seam construction with 180-degree bends; include seamer rental as may be required for proper installation. The erection of the PEMB shall be completed by a qualified erector.

- Minimum clear height: 13'-0" above finished floor (at dock / warehouse)
- Warehouse / dock building to be clear-span construction; ~~shop building to have center column at ridge line only.~~
- Include expandable end walls as shown on Conceptual Drawings for future expansion.
- Wall panel(s), uninsulated (at semi-heated or unconditioned areas) = 26-gauge thickness, color: white; all trim, doors, frames, gutters & downspouts, closures, etc. to match adjacent wall panel color. Use manufacturer's standard "rib" wall panel.
- Wall panel(s), insulated (at conditioned areas) = see Section 07 01 01.
- Roof panel(s) = 24-gauge thickness, color: galvalume
- Cross-bracing locations to be approved by Owner prior to fabrication.
- All loading door areas to utilize "Super Jamb" and "Super Header" details, in galvanized finish, for future dock shelter(s) by Tenant.

~~13 12 01 Guard House~~
~~Provide and install prefabricated guard house similar to "PK64dd" as manufactured by ParKut, in location shown on Site Plan. This is a fully conditioned building, without restroom, and a sliding door on one side (traffic side). Include raised raised curb pad (8" above adjacent pavement level); raised slab should allow for a 2'-0" wide walkway around entire building. Include bollard / guard rail protection.~~

~~13 20 00 UST Fueling System~~
~~Work included in this Section shall consist of furnishing all materials, supplies, equipment, tools, transportation and facilities and performing all labor and services necessary for an Underground Storage Tank (UST) type fueling system as depicted on Drawings. The Contractor shall contract for a complete and fully functional and operational fuel system.~~

- ~~Use adequate numbers of skilled workman who are thoroughly trained and experienced in the necessary craft and who are completely familiar with the specified requirements and methods needed for proper performance of the work.~~
- ~~Work shall be done in compliance with:~~
  - ~~National Fire Protection Association~~
  - ~~Current Federal, State and local codes and ordinances~~
  - ~~Environmental Protection Agency ("EPA")~~
- ~~Contractor shall submit shop drawings of each piece of equipment being incorporated into the fueling system. Drawings shall include all critical dimension, fittings, man ways, pumps, dispensers, monitoring system including probe valves, caps and all other accessories required. Provide calibration charts of fuel storage tank provided.~~
- ~~The Scope of Work shall include the cost of the complete UST fueling system which includes two [2] new fueling lanes with one [1] new 30K double-wall fiberglass UST(s), new dual-hose master and single-hose slave fuel dispensers, existing hose reels, new EJ Ward card reader, fuel inventory control unit ("ICU") by Simmons with alarm and acknowledgement switch, associated electrical line voltages and any applicable sales tax, delivery charges, installation and startup costs. The system shall also include a UST diesel-exhaust-fluid dispensing system, with capacity to service all lanes, and at least [1] dispenser hose for each lane. All power required for fueling area is to be fed from shop building, including all data connections. CPU for tank monitoring system to be located within shop building.~~

PROJECT CRITERIA

- ~~It shall be the installing Contractor's responsibility to provide and meet any and all testing, inspection and installation requirements as set forth by Federal, State and local jurisdiction. The installing Contractor shall provide, notify and file all notification forms as required by Federal, State and local jurisdiction. Copies of all such forms shall be delivered to Owner. The installing Contractor shall complete and distribute Manufacturer's Installation Check List. Copies of all such forms shall be delivered to Owner. Tank and product line tightness test shall be performed before final acceptance by Owner. Testing shall be done by independent, third party testing company and not be by electronic monitoring system. Provide Owner with "as-built" drawings, dispenser calibration sheets, warranty paperwork, test results and other close-out paperwork as a prerequisite to final payment. The installing Contractor shall provide "on site" training of Lessee personnel on the proper use and operation of all equipment installed, including electronic monitoring system. All costs associated are by the Contractor.~~
- ~~In addition, installing contractor to provide the following items:~~
  - ~~Furnish & install all required safety equipment (fire extinguisher, cabinet, signs, decals, placards, etc.)~~
  - ~~Furnish [2] additional sets of hanging hardware (nozzles, hoses, breakaway kits, swivels, whip hoses, etc.), [1] case of inline filters and [2] tank sticks as part of project close-out, to Tenant.~~

~~13 20 01 Underground Storage Tank ("UST")~~

- ~~The UST shall be equal to Xerxes or Containment Solutions, DWT Standard Double Wall Tank. The tank shall have a space between the primary and secondary shell walls to allow for the free flow and containment of all leaked product. The space shall also allow for the installation of a dry interstitial monitoring device.~~
- ~~Nominal capacity of the tank shall be 30,000-gallons with an outside diameter of 10' feet.~~
- ~~Each tank shall be provided with hold down anchor straps. Number and location of strap shall be as specified by tank manufacturer.~~
- ~~Each tank shall be fitted with a 22" flanged man ways one [1] each for tank fill and one [1] for sump pump.~~
- ~~Provide one each flat side SW containment sumps and covers man way risers, 42" in diameter, w/ 36" fiberglass lid, topped by a 36" steel man way, installed at finish grade w/ grades sloped away to prevent surface water from entering.~~
- ~~Coordinate installation of street box with tank manufacturer and other trades.~~
- ~~Spill container, overfill device and manways shall be manufactured by EMCO Wheaton.~~

~~13 20 02 Double Wall Fiberglass Primary Piping~~

- ~~All underground fuel piping to be double wall fiberglass.~~
- ~~Primary pipe shall be installed inside secondary piping; "clam shell" fittings shall connect the outer pipe lengths together.~~
- ~~Provide all necessary piping and associated connectors as required including but not necessarily limited to: tees, ells, adapters, couplings and washers.~~
- ~~Pipe diameters shall be sized appropriately by professional engineer.~~

~~13 20 03 Submersible Pump~~
~~Provide Red Jacket submersible pump with relay control boxes. Provide one [1] pump per tank. Pump size to be designed in conjunction with piping diameters by professional engineer, depending on fuel layout per Conceptual Drawings.~~
~~13 20 04 Overfill Spill Container~~
~~Provide one [1] each EMCO Wheaton Evolution model A1005 thread-on 5 gallon bucket spill containment manhole designed to contain fuel spillage during filling operations. The double-wall drainage system shall allow drainage of fuel back into tank. Provide unit of stainless steel primary & secondary, lid and ring of 16", with 5 gallon capacity.~~

~~13 20 05 Fuel Dispensers~~

- ~~For every two [2] fuel lanes as noted on the Conceptual Drawings, install one [1] dual-hose Master Dispenser and two [2] single-hose satellite dispensers.~~
- ~~Additionally, install [1] DEF dispenser at every fuel lane.~~
- ~~Include 8" concrete islands for all dispenser locations; steel islands are not permitted unless required by Code.~~
- ~~The Master Dispenser as manufactured by Gasboy, model "Atlas 9850 Super-Hi Flow" with dual hoses. Include spin-on filters, 8'-0" long [1"] fuel delivery hose with 1" hose swivel / breakaway, and 1" high flow fuel nozzle.~~

PROJECT CRITERIA

- ~~The Satellite Dispenser as manufactured by Gasboy, model "Atlas 9216K" with single hose. Include spin-on filters, 8'-0" long [1"] fuel delivery hose with 1" hose swivel / breakaway, and 1" high flow fuel nozzle.~~
- ~~Include "Off/On" switch for each Master to control flow of fuel to Master and Satellite solenoids.~~
- ~~The DEF Dispenser as manufactured by Gasboy, model "Atlas 9862KX-Z" with single hose for cold weather (heated cabinet). Include filters, 8'-0" long product delivery hose with hose swivel / breakaway, and high flow fuel nozzle.~~
- ~~Dispenser sumps shall be manufactured by Petroleum Containment.~~
- ~~Flex connectors shall be manufactured by Hose Master.~~
- ~~Nozzles / breakaways shall be manufactured by Husky.~~

~~13 20 06 Electronic Monitoring System~~

- ~~Electronic tank gauge monitoring shall be provided to monitor the underground liquid storage tank and associated below-grade product piping.~~
- ~~System shall be Simmons (part of Dover Fueling Solutions) TMW 650 or similar, including the following specifications: (i) intrinsic safety console, (ii) console channel support, (iii) TMW 650 software, (iv) TM 5200 Precision Ultrasonic probes, (v) weather proof box & plate, (vi) RF Tansceiver (2-req. per console), (vii) Coax 20' (2-req. per console), (viii) base station antenna, (ix) YAGI beam antenna, (x) universal controller, and (xi) ClearView Software.~~
- ~~Contact: Ray Melendez, (972) 497-9002 phone, (469) 418-0767 cell, ray.melendez@doverfs.com email~~
- ~~No substitutions will be allowed for this item.~~

~~13 20 07 Card Reader~~

- ~~System shall be EJ Ward FCT-W4-05H, including freight and setup.~~
- ~~Contact (sales): Don Melochick, (717) 825-1785 phone, dmelochick@ejward.com email~~
- ~~Contact (corporate): Valerie Pereida, (210) 824-7383 phone, vpereida@ejward.com email~~
- ~~No substitutions will be allowed for this item.~~

~~13 20 08 DEF System~~

- ~~Include UST for DEF storage, as well as one [1] product dispenser hose at each fueling lane.~~
- ~~See Section 13 20 05 for dispenser information.~~
- ~~Tie-in DEF system to inventory management system by Simmons.~~

~~13 20 09 Fuel Canopy~~
~~The engineered canopy system shall be pre-engineered and prefabricated using only the highest quality materials available, similar to Superior Canopy, (888) 988-4065. Recycled or salvaged steel, decking and fascia are not acceptable.~~

- ~~Provide canopy system over the entire fueling area.~~
- ~~The canopy system shall be fully designed, engineered and fabricated by canopy manufacturer.~~
- ~~Engineering shall include footings, anchor bolts and sealed drawings.~~
- ~~Design, fabricate, and erect the canopy system to withstand loads from winds, gravity, and structural movement, and resist in-service use without failure. Basic design loads to be withstood are indicated below (minimum requirements):~~
  - ~~Governing Building Code: as required by local jurisdiction~~
  - ~~Roof Dead Load: self weight~~
  - ~~Live Load: per Building Code~~
  - ~~Snow Drift: per Building Code~~
  - ~~Seismic as required by local Code~~
  - ~~Basic Wind Loads: per ASCE 7-95 or as specified~~
  - ~~Uplift: per ASCE 7-95 or as specified~~
  - ~~Clearance: 16'-0" to underside of canopy~~
  - ~~All above listed design loads are suggested minimums; actual design criteria shall be adjusted to match local Code or authorities having jurisdiction.~~

PROJECT CRITERIA

- ~~The canopy manufacturer shall furnish a complete set of canopy drawings including design calculations. Drawings and calculations shall be sealed by a Registered Professional Engineer licensed in the state where the canopy is to be installed.~~
- ~~The canopy system shall have a complete perimeter guttering system designed to drain back to a centralized gutter that carries roof water to the columns for collection and discharge via an internal downspout. All rain water shall be piped through columns, concealed, to underground pipe for tie-in to underground storm sewer system. Include separate oil-water separator for fuel area storm drainage, if required.~~
- ~~The canopy shall include furnishing and installation of flush-mounted LED (Cree or similar) light fixtures to provide 30-FC average (10-FC minimum) under canopy, tied into site lighting circuit / timer.~~

~~Provide the following metals as required:~~

- ~~Columns: ASTM A 500, Grade B, with a minimum yield stress of 46,000 psi. Provide ¾" electrical conduits with seal-off internally mounted inside of each column. Seal-off shall be visible through 4"x6" hand hole located 48" above finish drive. Provide 14 gauge collector boxes at each column to collect drain water from the guttering system. Each collector box will be a minimum of 17" square and 4 3/4" in depth.~~
- ~~Wide Flange Beams, Angles and Plate: ASTM A36 hot rolled shapes, Grade 50. No cold rolled shapes are acceptable. All framing members shall be shop-fabricated for bolt assembly.~~
- ~~Structural Bolts: ASTM A F1554 GR 55 structural steel with minimum yield strength of 55,000 ksi.~~
- ~~Deck Panels: 20 gauge galvalume steel panels rolled into a standing seam profile. ASTM A446 with yield stress of 50,000 psi. Panels shall have an embossed texture with the finish side coated of white polyester paint baked on over an epoxy primer.~~
- ~~Gutters: .032 aluminum with embossed texture, 7-1/2" wide x 5" deep, paint specification to match deck material.~~
- ~~Fascia / Framing: Fascia to be 18 gauge, Galvanized Steel Grade-D or Aluminum Composite Material, in "white" color to be approved by Owner (provide color samples). Fascia to be a minimum of 18".~~
- ~~Drain Leader and Downspout: Water shall be drained from the bottom of gutter into collector box connected to 4" schedule 40 PVC downspout mounted inside column with stub out.~~
- ~~Rigid Frames: Crossbeams and purlins shall be factory welded, shop primed, wide flange shapes with structural attaching plates and or splice members to suit project conditions. All attachments shall be factory drilled for field bolted connections. Field welding and fabrication is unacceptable.~~
- ~~Erect framing true to line, plumb, level, rigid and secure. Level base plates to true even plane with bearing to supporting structures, set with double-nutted anchor bolts. Anchor bolts to be a minimum of 1-1/4" in diameter, 30" long with a 5" hook or as required by design.~~
- ~~Contractor to use non-shrinking grout under base plate to obtain uniform bearing and maintain level baseline elevation. Moist-cure grout for 7 days after placement.~~
- ~~Fasten roof deck panels to purlins with galvanized steel clip fasteners. Secure each panel with a stitch screw between each purlin. Avoid panel creep or application not true to line. Protect factory finishes from damage. Field cutting of panels by torch is not permitted.~~
- ~~Install gutters, downspouts and other accessories with positive anchorage to structure and weather tight mounting. Use only high quality sealant designed for outdoor use on sheet metal.~~
- ~~Install fascia sections, trim and related accessories per manufactures specifications for the style of fascia used on this project.~~
- ~~Install screw fasteners with power tools having controlled torque as to not strip screw threads and or damage fascia material.~~

DIVISION 15 – MECHANICAL
~~**15 20 00 Shop Lubrication System**~~

- ~~All lube equipment shall be Graco products, or similar.~~
- ~~All electric reel equipment shall be CoxReels products, or similar.~~
- ~~Provide all mounting brackets, connecting hoses, connectors, swivels and ball stops as required for a complete and operational system. Hang reels from structural steel (rigid frames) and include enough length for quick access from overhead at floor level.~~

PROJECT CRITERIA

- ~~Provide all necessary connections, reducers, swivels and accessories as required.~~
- ~~Provide all necessary shut-off valves to supply lines, pumps and hose reels.~~
- ~~Install Owner-supplied air compressor including connection of 2" air delivery line to compressor.~~

~~15 20 01 Lube System Piping Requirements~~

- ~~Install pump pressure relief valves to prevent damage to system due to thermal expansion of fluids.~~
- ~~Air and fluid shut off valves should be used throughout the system for ease of service.~~
- ~~Air shut off valves should be placed within 3'-0" of pumps.~~
- ~~Fluid shut off valves should be placed within 3'-0" of hose reels.~~
- ~~Adequate bracing of product piping must be provided to prevent pipe from moving hammering or swaying.~~
- ~~Provide adequate support and means for lines to expand.~~
  - ~~Air Lines; sized appropriately for number of drops and length(s) of pipe. Include closed loop in design for redundancy purposes and to aid against pressure drop.~~
    - ~~Air Line Loop = SCHD 40 Black Pipe~~
    - ~~Air Drops = SCHD 40 Black Pipe~~

~~15 20 02 Compressed Air / Lubrication Equipment~~

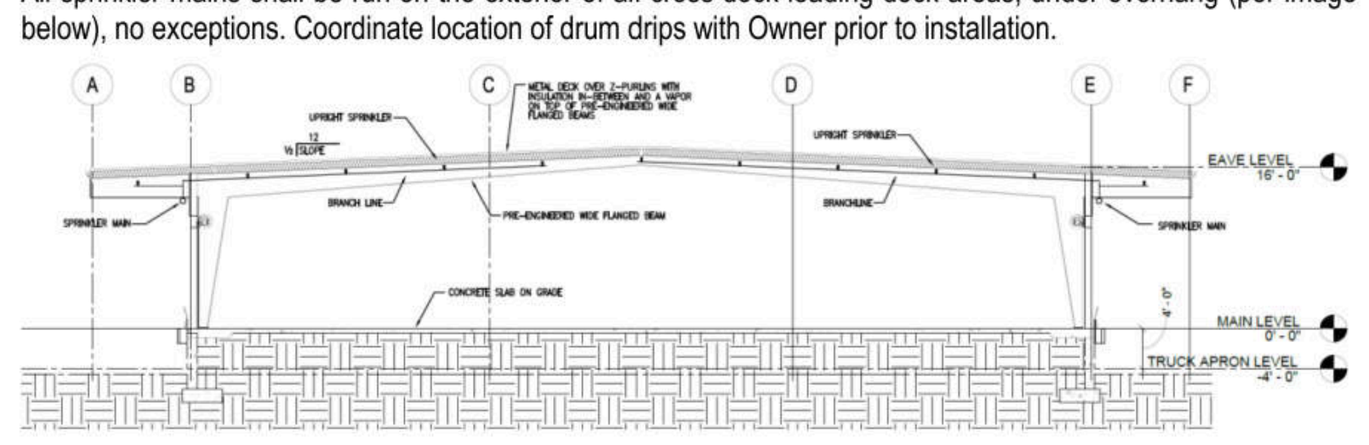
- ~~Include [6] locations in shop for each below; [2] on CL-2, [2] on CL-4 & [2] on CL-6, spaced evenly.~~
- ~~Air Reel System 3/8~~
  - ~~XD Series 20 Hose Reel 3/8"x65' HSL56B~~
  - ~~Reel inlet hose 218549~~
  - ~~3/8" air coupler 110198~~
  - ~~Nipple~~
  - ~~Air metal label~~
- ~~Air Reel System 1/2~~
  - ~~XD Series 20 Hose Reel 1/2"x50' HSL65B~~
  - ~~Reel inlet hose 218549~~
  - ~~1/2" air coupler 110199~~
  - ~~Nipple~~
  - ~~Air metal label~~
- ~~Air Drop Service, coordinate with Owner; each air drop where indicated on plans shall have:~~
  - ~~1/2" Filter-regulator-lubricator 217072~~
  - ~~1/2" air coupler 110199~~
  - ~~1/2" air fitting 110196~~
  - ~~3/4" air coupler 110200~~
- ~~Electrical Power Cord Reel, by CoxReels, shall have:~~
  - ~~PC Series, 75', quad plug head PC19-7512-B~~

15 30 00 Fire Suppression
The fire suppression system shall be designed by a licensed contractor (or engineer if required by authorities having jurisdiction); this includes the responsibility to provide all drawings prepared under their direct supervision.

- System design and installation shall comply with local, state and federal regulations as well as NFPA 13.
- All equipment shall be UL listed.
- Provide and install an approved, hydraulically-calculated "dry" automatic sprinkler throughout the building(s).
- Automatic sprinklers shall be installed throughout all required areas under roof, including but not limited to: warehouse, cross dock, shop, rail bay, restrooms, general office area(s), break area, overhangs, etc.
- Pipe runs shall be designed so as to be free from damage due to business operations (ie. forklift traffic or truck/trailer traffic).
- All piping shall be provided as SCH40 with MIC coating.
- Include booster pump, air compressor and / or storage tank(s) as part of fire suppression system, if required.
- Pump(s) to be diesel-powered, if required.

PROJECT CRITERIA

- All sprinkler mains shall be run on the exterior of all cross-dock loading dock areas, under overhang (per image below), no exceptions. Coordinate location of drum drips with Owner prior to installation.



15 30 01 Office area fire protection system

- Administrative Offices and other service areas such as; restrooms, employee entrance, clinic, break area, etc. shall be concealed sprinkler heads with white flanges at T-bar ceiling.
- All sprinkler heads shall be centered in ceiling tiles throughout all finished spaces.

15 30 02 ~~Shop~~ / dock area fire protection system

- All other areas shall receive upright brass-finish sprinkler heads, using Schedule 40 piping (with MIC coating) throughout at branch and main lines.
- Roll-grooving of Schedule 40 is acceptable on piping 3" or larger. Note: no threadable thin wall piping shall be allowed.
- Sprinkler heads and associated branch piping shall be located 12" off the centerline of each overhead door to eliminate interference with overhead door operator.
- Any sprinkler piping supported from roof purlins shall be attached to the purlin web by use of side mounted beam brackets.
- Use of flange brackets on purlin flanges will not be allowed.
- Piping suspended from beam shaped structural members will be allowed to be supported from appropriate designed clamp type brackets.

15 30 03 Fire hydrants
Install hydrants as required per Code / NFPA guidelines. Include all fittings, valves, and thrust block(s) as will be required for a complete and working installation. Assume utilization of existing infrastructure for installation of new hydrants.

15 30 04 Fire department connection & control valves
Provide fire department connection and sectional post indicator valves, control and riser valves. All valves should be OS&Y. Provide connections as required per local jurisdiction.

15 30 05 Water storage tank (if required)

- If required due to local water pressure, provide and install steel, bolted above ground water storage tank, factory primed and painted with enough capacity to supply water for two [2] hours of continuous pump operation. A diesel fuel driven pump will be required as per hydraulic design.
- If required due to local water pressure, include the construction of a stand-alone fire pump house with appropriate dimension to include a hydro pneumatic system and inverse osmosis water treatment system.

15 30 06 Switches

- Provide and install the following alarm and supervisory switches of which each shall be connected to the building fire alarm control panel by the alarm contractor:
  (i) Tamper Supervisory Switches on all valves controlling water to fire sprinklers, and
  (ii) Water Flow Switches for each dry-pipe system using pressure-type water flow switch.

PROJECT CRITERIA

15 30 07 Drain Lines

- Drain pipes and valves shall be installed on each system to allow drainage.
- Each system shall drain to the maximum extent possible through the main drain valve.
- For dry systems, branch lines shall be pitched at least 1/2-inch per 10-feet and main lines shall pitch at least 1/4-inch per 10-feet.
- Coordinate location of drum drip(s) as required with Owner prior to construction.

15 30 08 Flow Test

- Contractor to establish system design based on water flow test conducted by municipal water utility or fire department at the effective point of city connection.
- Flow test must have been performed within the previous six [6] months. Include copy of flow test indicating static pressure, residual pressure and PSI with GPM flowing. Contractor or their subcontractor are responsible to obtain any and all flow test information.

15 30 09 System Test

- The entire fire suppression system shall be subject to inspection and acceptance by authorities having jurisdiction to determine in system(s) are in accordance with federal, state and local Codes.
- All underground piping shall be hydrostatically tested at not less than 200 PSI, or 50 PSI in excess of the maximum working pressure of the system (whichever is greater), for not less than two [2] hours in accordance with NFPA 24. Before testing the trench shall be backfilled between joints. All joints shall be left exposed during the test.
- Each fire hydrant shall be fully opened and closed under full pressure.
- All interior system piping shall be hydrostatically tested at not least than 200 PSI, or 50 PSI in excess of the maximum working pressure of the system, for not least than two [2] hours.
- Dry-Pipe System; an air pressure leakage test at 65 PSI shall be conducted for 24 hours. There shall be no drop in pressure in excess of 1.5 PSI for the 24 hour test. This air pressure test is in addition to the required hydrostatic test. Each dry-pipe valve shall be trip-tested by reducing normal air pressure through opening the Inspector's Test Connection. Systems equipped with quick opening devices shall be first tested without operation of the quick opening device and then tested again with the device in operation.
- All test results shall be witnessed and recorded. Test results shall include the number of seconds elapsed between the time the test valve is opened and tripping of the dry-pipe valve; trip-point air pressure of the dry-pipe valve; water pressure prior to valve tripping; and the number of seconds elapsed between the ITC valve is opened and the water reaches the ITC orifice.
- All field test performed by the Contractor shall be conducted in the presence of the design engineer, the authorities having jurisdiction and the Owner.
- Contractor to provide written notice to all persons concerned a minimum of two [2] weeks in advance of the tests.

15 40 00 Plumbing
The plumbing system shall be designed by a licensed Mechanical Engineer; this includes the responsibility to provide all drawings (conforming to all local, state and federal Codes) prepared under their direct supervision, receiving their signed stamp of state registration for professional engineers.

- Size water service to provide acceptable pressure to future building expansion, if desired.
- All plumbing fixtures installed shall meet ADA guidelines.
- All materials to comply with ASA, ASME, UL and MSVF Standards.
- All new urinals and new water closets shall have flush-valve operation, sensor touch-less and hard-wired; 1"-diameter minimum water supply to each valve location. All water closets shall be floor-mounted units.
- All new lavatory fixtures shall be sensor touch-less, and hard-wired.
- The quantity of restroom fixtures shall be governed by Code based on number of occupants.
- The location of restrooms shall be governed by Code with respect to travel distances.
- All interior supply piping shall be copper with soldered connections; use type L hard copper above grade and type K soft copper below grade or as per local Code. No flexible piping ("pex") will be allowed.

PROJECT CRITERIA

- Pipe insulation to be provided on all above grade hot and cold piping, whether concealed or exposed.
- Color of fixtures to be white unless otherwise noted.
- Finish of fixtures to be brushed chrome unless otherwise noted.
- Provide 277V electric hot water heater(s) as required, throughout building(s).
- All exposed gas piping shall be painted to prevent rust, two [2] coats minimum. Gas pipe shall be run on the interior of the building in lieu of on the roof.

~~15 40 01 Underground water supply~~
~~Provide main underground water supply line from city main (to water booster system storage tank and fire tank, if required) utilizing piping in material as allowed per local Code.~~

15 40 02 Hot and cold water supply lines

- Branched from main interior line with branch sectioning valves.
- Include circulation pump and line from all hot water heater(s) to furthest point for continuous hot water.
- Copper 2" diameter main line(s) for domestic service(s), at a minimum.
- All shut-offs to be ballcock style.

15 40 03 Water pressure booster (if required)
If required due to local water pressure, provide duplex water pressure booster pump system with hydro-pneumatic tank (40 – 50 psi) with sand interceptor filter for all water and steel water storage tank. Sand interceptor should be installed at the main water supply line.

15 40 04 Drinking fountains

- Provide and install one [1] ADA set (bi-level) drinking fountain at each set of restrooms.
- Include bottle-filler option at each new drinking fountain location.
- Include drinking fountain at remote toilet rooms as required per Code (travel distance).

~~15 40 05 Exterior underground sanitary sewer waste line~~
~~Shall be in material as allowed per local Code, sized appropriately by Civil Engineer.~~

15 40 06 Interior sanitary sewer waste lines
Shall be in material as allowed per local Code, sized appropriately by Mechanical Engineer.

15 40 07 Sewer inspection
Sewer inspection manholes shall meet local water utility specifications.
Provide exterior sewer cleanouts at every 100'-0" maximum.
Provide manhole sewer access at intervals per local Code.

15 40 08 Sanitary sewer and waste lines
Required to all restrooms, drains, miscellaneous plumbing fixtures and systems indicated on the drawings. Include venting as required per Code.

15 40 09 Exterior hose bibs
Include two [2] exterior hose bibs in lockable, frost free configuration. Coordinate location(s) with Owner.

15 40 10 Interior hose bibs
Include one [1] interior "hot water" hose bib at each restroom location, under one of the lavatories. Coordinate location(s) with Owner.

15 40 11 Ice maker connection
Include water line connection with shut-off for ice maker at each break area.

PROJECT CRITERIA

15 40 12 Floor drains
Provide and install floor drains in all restrooms, janitor closets, and break areas (adjacent to vending machines). Include drain(s) in riser / meter rooms and other areas as may be required by Code. Provide trapped drains for sewer gas and connect to underground sanitary system.

~~15 40 13 Mop sinks~~
~~Provide and install mop sink with threaded faucet, hose, and mop rack, in each janitor closet location. Include slop sink at open shop space, with threaded faucet.~~

~~15 40 14 Oil-Water separator~~

- ~~Provide for oil-water separator ("OWS"), installed outside building footprint, but accessible for maintenance with lid in yard pavement, sized per engineer.~~
- ~~OWS shall be connected with dedicated line to all interior floor / trench drains within shop building.~~
- ~~If required, an additional OWS shall be added to contain the stormwater associated with the on-site fueling area.~~
- ~~Include sampling manhole on outgoing side of OWS, prior to connection to balance of building sanitary line.~~
- ~~Include additional sampling manhole on outgoing side of building sanitary line prior to City connection.~~
- ~~Size OWS based on engineer's recommendation, or local Code requirement(s).~~

~~15 40 15 Trench drains~~
~~Provide for linear trench drain at each overhead door opening in shop building, similar to Zurn Z882-HDS (12" wide, 8" depth, with stainless steel frame and reinforced stainless steel grate). The trench drain(s) shall be connected in series and trapped if required by local Code, although not desired. Include clean-out(s) as may be required.~~

15 70 00 Heating, Ventilating, and Air Conditioning (HVAC)
The design engineer shall be responsible for preparing construction drawings and sizing the capacity of all HVAC equipment based on geographic location of the facility, its orientation on the site, applicable Codes and design criteria given in this Project Criteria or Conceptual Drawings. A licensed engineer shall stamp final plans.

- Heating shall be based on using natural gas as a heat source. The same system will be used for cooling functions as well. All equipment shall be ground-mounted; no roof-mounted equipment will be permitted.
- All materials to comply with ASTM, UL, ANSI Standards.
- Submit shop drawings for review prior to ordering of equipment.
- All HVAC units shall be furnished with a minimum 16 SEER rating or 12.25 EER rating.
- Install all registers, grilles, diffusers, access doors, fan connections, dampers, fans, louvers, control devices, condensing units, hoods, chimneys (Class B), fire dampers, and hangers to provide a complete HVAC system.
- Paint inside of ductwork "flat black" for entire area visible through grille opening(s).
- Paint any hoods, vents, grilles, etc. that penetrate exterior wall in color(s) to match exterior finish color(s).
- Provide galvanized steel ducting for both diffusion and return; diffusion ducts shall be insulated, while both diffusion and return ducts shall have all joints sealed. Flexible duct will not be allowed.

15 70 01 Office areas

- Conditioned air supplied through overhead supply ductwork that will discharge into the office area through ceiling mounted diffusers.
  - Heat to 75°F inside when 5°F outside.
  - Cool to 70°F inside when 95°F outside.
- Provide independent VAV unit (heat and cooling) at each conference room, break area, IT Room, open office and private office(s); include restrooms on independent thermostat.
- Provide programmable thermostats at each unit.
- Provide independent slave units at each private office.
- Space above ceiling shall not be used as a return air plenum. All returns shall be ducted.

~~15 70 02 Warehouse areas~~

- ~~Shall be heated by Cambridge Forced Air Units~~
  - ~~Heat to 65°F inside when 0°F outside.~~

PROJECT CRITERIA

- ~~Provide for two [2] air changes per hour in warehouse area.~~

15 70 03 Venting system

- Provide a mechanical venting system composed of wall-mounted exhaust fans and louvers to provide air changes per hour as required per code; mount on the side wall of the building, ground or over a metal structure where needed. Refer to Conceptual Drawings as applicable.
- Venting system shall be adequate to support propane forklifts, if desired by Tenant.

15 70 04 Restrooms exhaust fans

- Shall be side-wall mounted and sized appropriately per engineer for Code.
- The exhaust fans shall be run constantly on during business operating hours only.
- Provide timer control as required.

15 70 05 Low voltage controls and wiring

- Provide digital programmable thermostats (day, week, temp).
- Provide and install all low voltage controls and wiring in conduit for the HVAC system.
- Include low voltage wiring, relays, interlocks, transformers, sensors, guards at each thermostat, etc.

~~15 70 06 IT Room~~

- ~~Provide independent, redundant split unit(s) as required to maintain temperature for Tenant's IT equipment. This shall be required in addition to main HVAC system.~~
- ~~The room requires a stable ambient temperature of 72°F.~~
- ~~Temperature control of this room shall be independent of the main HVAC system.~~

15 70 07 Riser / Meter Room(s)

- Provide independent, redundant electric heat unit(s) as required to maintain temperature for fire suppression equipment. This shall be required in addition to main HVAC system.
- The room requires a minimum temperature of 55°F at all times.
- Temperature control of this room shall be independent of the main HVAC system.

DIVISION 16 – ELECTRICAL
The electrical system shall be designed by an Electrical Engineer; this includes the responsibility to provide all drawings (conforming to all local, state and federal Codes) prepared under their direct supervision, receiving their signed stamp of state registration for professional engineers.

- Main electric service shall be secondary, 480/277V 3-phase, sized appropriately based on building loads. Confirm existing service is adequate. ~~including an additional 50% for future expansion.~~
- All electrical equipment shall be manufactured by Square D.
- All conductor shall be copper and enclosed in conduit. Conduit installed underground to be rigid steel or schedule 40 PVC material. Aluminum conductor will not be allowed.
- All materials to comply with UL, NEMA, ASTM, OSHA, IEEE, NEC and local Code / ordinances.

~~16 00 01 Incoming services~~
~~The incoming service cable to the meter shall be run underground. All costs associated with this installation, from the grid into the site, are to be paid by Contractor.~~
~~Include two [2] 4" conduits for data provider, from connection at street, landed in corner of IT Room.~~

~~16 00 02 Main switchboards~~

- ~~Provide main switchboards for each substation transformer; the main circuit breaker for the basis of pricing shall be as needed for building addition with standard short circuit interrupting capacity.~~
- ~~The main circuit breaker shall be electromechanical type, including ground fault protection, phase missing protection, trip unit or equal. Include metering equipment (voltage, 19 amp, kw, etc.).~~

PROJECT CRITERIA

- The final size of the service will be determined by the engineer and approved by the Owner.
- Provide a minimum of 20% spare space in main power distribution panel for future use.

~~16 00 03 Step-down transformers~~

- ~~Provide step-down transformers with 110/220, 3 Phase panels as required for misc. power requirements.~~
- ~~Single-phase panels will be provided for building receptacles as required.~~

16 00 04 Electrical distribution

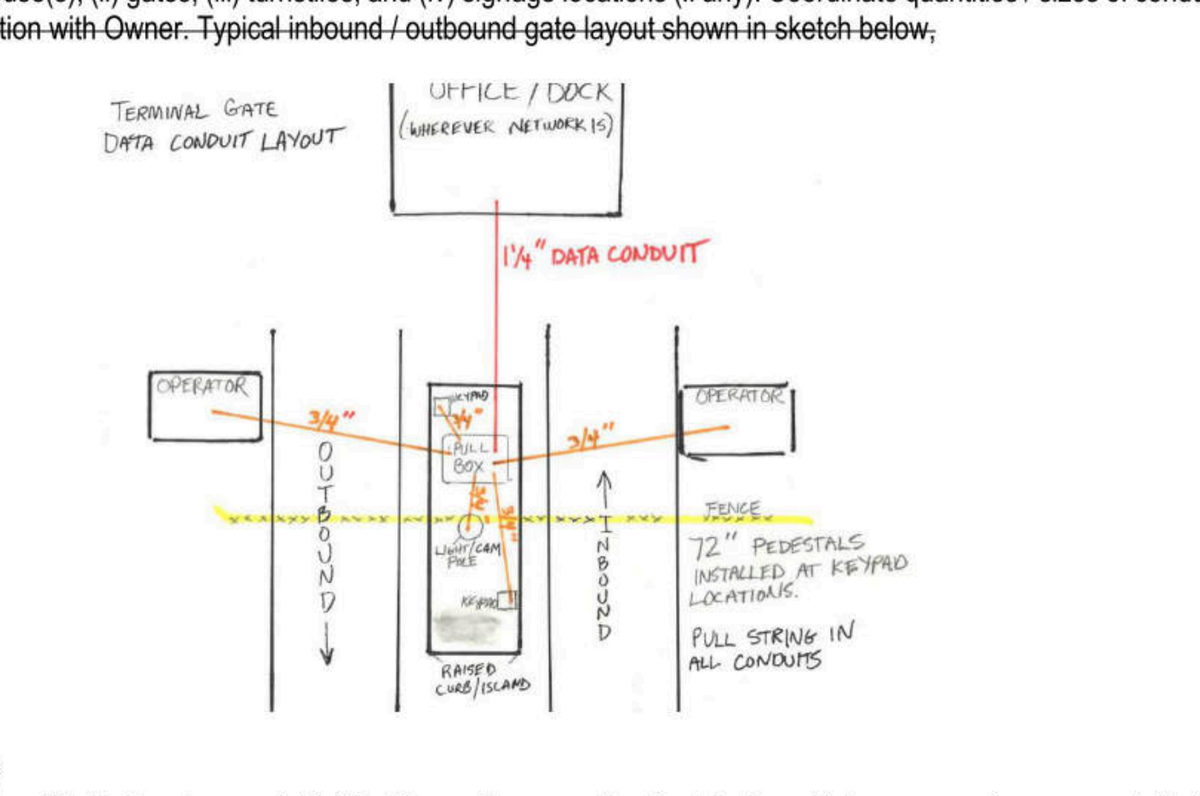
- Provide all conduit, boxes, plates, wiring, fuses, disconnect switches, wiring devices, metering, panel boards, fixtures, connection devices, and miscellaneous electrical components to furnish a complete system. Wiring devices shall match the amperage of the circuit being served. Coordinate all electrical signage requirements.
- All circuits within the building shall be run in thin-walled electrical metallic tubing ("EMT") conduit and shall be installed overhead. Under no circumstances, unless approved in writing in advance by the Owner, will circuits be allowed to be installed under concrete slabs.
- Panel boards to be installed as required; coordinate switching and final location with Owner. Each panel shall be designed to allow for 20% spare, unused circuit space. Include separate panel(s) within shop building to be fed from main switchboard within electrical room; the intent is for one electrical service to service the entire site.
- Provide 110V duplex outlets at all perimeter walls in the office open area at every 6'-0" maximum, and as per local Code; provide four [4] outlets at every private office in opposing walls, at a minimum. At private offices with aluminum framing for walls, utilize higher base framing to install outlets in base.
- ~~Provide eleven [7] 110V GFCI duplex outlets as required in each break area, each outlet on a dedicated circuit. The purpose of these dedicated circuits is for [1] refrigerator(s), [1] ice maker(s), [2] microwave(s), [1] coffee maker(s), and [2] vending machine(s). These dedicated circuits may be direct wired to equipment, at Owner's option. Coordinate location of all items with Owner.~~
- Provide 110V GFCI duplex outlets as required by NEC in restrooms and wet areas, on dedicated circuit(s), minimum one location per restroom.
- Provide four [4] 110V weatherproof GFCI duplex outlets on the exterior of each building, one per elevation.
- Provide convenience 110V duplex receptacles on each rigid frame (column line), on either side of the dock, continuous for length of dock (or 2 per rigid frame).
- ~~Provide convenience 110V quad receptacles at each rigid frame (column line), on either side of shop and at center column, continuous for length of shop (or 3 per rigid frame).~~
- ~~Provide welding 220V receptacles on alternating ends of rigid frames in shop, adjacent to overhead doors; include [6] locations in shop; [2] on CL-2, [2] on CL-4 & [2] on CL-6, spaced evenly. Receptacle should be mounted within metal box: **NEMA-10-50R**.~~
- Provide power to site-related items, including but not limited to: (i) guard house(s), (ii) gates, (iii) turnstiles, and (iv) signage locations (if any).
- Interior office and finished area receptacles to be "white" in color and switch wall plates to be manufactured from white Lexan, plastic or vinyl not acceptable, installed as per Code.
- Storage, dock & shop area receptacles to be "black" in color, in metal boxes, with switch wall plates to be metal cover, installed as per Code.

~~16 00 05 Phone / data outlets~~

- ~~All low voltage cables shall be run in separate conduits and in separate pull boxes from all electrical power circuits. Installing both low voltage cables and power together in a common conduit or divided pull box is unacceptable.~~
- ~~Provide all required data and phone outlets with pull wire. Provide 1" conduits up to 12" above ceiling with radius elbow ends and 4" by 4" boxes at all perimeter walls and private offices and open office areas. Locate boxes in open areas at every 10'-0" maximum between each other.~~
- ~~Provide two [2] data and phone outlets at opposing walls in each private office.~~
- ~~Provide two [2] data and phone outlets in each conference room, one [1] centered in the floor, and one [1] on wall at monitor height.~~
- ~~Provide one [1] data drop at each individual work station. Coordinate locations with Owner and/or Tenant.~~
- ~~All phone/data lines shall "home run" from IT Room to each data port location.~~

PROJECT CRITERIA

- ~~Include empty data conduits with pull string from the main office area to the following locations, as applicable: (i) guard house(s), (ii) gates, (iii) turnstiles, and (iv) signage locations (if any). Coordinate quantities / sizes of conduits and location with Owner. Typical inbound / outbound gate layout shown in sketch below,~~



~~16 00 06 IT Room~~

- ~~Provide two [2] 4" diameter conduit(s) for fiber optic connection for telephone/data company from property limit in to IT room.~~
- ~~Provide one [1] – 3 phase, 42-circuit, 200-amp panel dedicated inside IT Room. All electric outlets at IT room and HVAC unit(s) must be connected directly to this dedicated panel. Panel and all outlets shall be fully surge-protected and provide "clean power" to IT room.~~
- ~~Provide dedicated electric circuit(s); to IT room directly from substation main distribution panel.~~
- ~~Provide wiring to connect dedicated mini-split unit(s) to dedicated panel.~~
- ~~Provide and install six [6] double polarized outlets in three different circuits; connect to dedicated panel.~~
- ~~Provide and independent ground systems, 5 ohm max., including a 12" cooper bar.~~

16 00 07 Fire alarm panel
Provide dedicated circuit per NFPA guidelines. Expand existing as required.

~~16 00 08 Battery chargers~~
~~Include in design for [28] battery chargers at warehouse / dock area; 30A, 480V/3-Phase units. Receptacle should be mounted within metal box: **NEMA-L16-30R** (Leviton 2730, or similar). Coordinate location(s) with Owner, adjacent to main office area on dock.~~

~~16 00 09 Emergency back-up generator~~

- ~~Contractor shall include all of the preparatory work required ahead of the generator as part of this Work.~~
- ~~Furnish and install Automatic Transfer Switch ("ATS"), including concrete pads for ATS and generator, as well as empty conduits with pull strings, etc. as required for generator. Include separate ATS for life-safety equipment as required per Code.~~
- ~~ATS must be adequately sized for the service including future load and provide back-up to the entire facility.~~
- ~~Furnish and install back-up, diesel-powered, emergency generator for the complete building load.~~

16 00 10 Signage
Include conduit and conductor for building mounted signage and/or monument signage at street frontage, per local ordinance. Install on astronomical timer along with exterior site lighting. Coordinate location(s) with Owner.

CROWN
ENTERPRISES LLC

STATE OF GEORGIA
JON TALTY
CERTIFICATE NO. RA 017066
REGISTERED ARCHITECT

NO.:	ISSUED FOR:	DATE
1	PERMIT	06/27/2025
	BID	08/04/2023

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PROJECT CRITERIA

DRAWN BY: BD CHECKED: ES/NS

DATE: 01/03/2024
SHEET NO.: G203
PROJ. NO.: 22129

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07 00 02 ROOF INSULATION

07 00 03 WALL INSULATION

07 00 04 JOINT SEALANTS

07 00 05 ROOF HATCH

DIVISION 08 - OPENINGS

08 00 01 EXTERIOR SERVICE MAN DOORS

08 00 02 INTERIOR METAL DOORS

08 00 03 EMERGENCY (EGRESS) DOORS

08 00 04 OFFICE DOORS

08 00 05 MAIN ENTRANCE DOORS

08 00 07 DOORS LOCKSETS

08 00 08 DOOR STOPS

08 00 09 WINDOW FRAMES

08 00 10 EXTERIOR WINDOWS

08 00 11 INTERIOR WINDOWS

08 00 12 OVERHEAD DOORS, WAREHOUSE

DIVISION 09 - FINISHES

09 00 01 EPOXY FLOORING

09 00 03 VINYL BASE

09 00 04 DEMISING WALL

09 00 05 DRYWALL AT OFFICE AREA

09 00 06 INTERIOR WALLS

09 00 07 RESTROOM WALLS

09 00 08 STUD WALL INSULATION

09 00 09 DROP CEILING INSULATION

09 00 10 WALL PAINT

09 00 11 SUSPENDED ACOUSTICAL CEILING

09 00 12 HARD-LID CEILING

09 00 13 EXTERIOR HOLLOW METAL DOOR AND FRAMES FINISHES SHALL RECEIVE SPRAYED ENAMEL PAINT FINISH.

09 00 14 MISCELLANEOUS STEEL PAINT

09 00 15 PORCELAIN TILE

09 00 16 VESTIBULE TILE

09 00 17 FRP PANEL

09 00 18 STEEL PAINT

09 00 19 EXTERIOR MAN DOORS

09 00 20 PAINT ALL PROTECTIVE PIPE BOLLARDS

09 00 21 IT ROOM FLOORING

DIVISION 10 - SPECIALTIES

10 00 01 PARTITIONS

10 00 02 TOILET ACCESSORIES

10 00 03 SIGNAGE

10 00 04 FIRE EXTINGUISHER CABINETS

10 00 05 FIRE EXTINGUISHERS

10 00 06 GROUND-SET FLAGPOLES

DIVISION 11 - EQUIPMENT

11 00 01 DOCK LEVELERS

11 00 02 DOCK LOCKS

11 00 03 DOCK CONTROLLER

11 00 04 DOCK SHELTERS

11 00-05 TRAILER STABILIZING JACK

11 00 06 DOCK-LEADING LIGHT

11 00 07 WHEEL LOCKS

DIVISION 12 - FURNISHINGS

12 21 01 LIGHT FILTERING ROLLER SHADES

DIVISION 13 - SPECIAL CONSTRUCTION

13 12 00 PRE-ENGINEERED METAL BUILDING

DIVISION 11 - EQUIPMENT

11 00 01 DOCK LEVELERS

11 00 02 DOCK LOCKS

11 00 03 DOCK CONTROLLER

11 00 04 DOCK SHELTERS

11 00-05 TRAILER STABILIZING JACK

11 00 06 DOCK-LEADING LIGHT

11 00 07 WHEEL LOCKS

DIVISION 12 - FURNISHINGS

12 21 01 LIGHT FILTERING ROLLER SHADES

DIVISION 13 - SPECIAL CONSTRUCTION

13 12 00 PRE-ENGINEERED METAL BUILDING

DIVISION 11 - EQUIPMENT

11 00 01 DOCK LEVELERS

11 00 02 DOCK LOCKS

11 00 03 DOCK CONTROLLER

11 00 04 DOCK SHELTERS

11 00-05 TRAILER STABILIZING JACK

11 00 06 DOCK-LEADING LIGHT

11 00 07 WHEEL LOCKS

DIVISION 12 - FURNISHINGS

12 21 01 LIGHT FILTERING ROLLER SHADES

DIVISION 13 - SPECIAL CONSTRUCTION

13 12 00 PRE-ENGINEERED METAL BUILDING

DIVISION 15 - MECHANICAL

15 30 00 FIRE SUPPRESSION

15 30 01 OFFICE AREA FIRE PROTECTION SYSTEM

15 30 02 SHOP / DOCK AREA FIRE PROTECTION SYSTEM

15 30 03 FIRE HYDRANTS

15 30 04 FIRE DEPARTMENT CONNECTION & CONTROL VALVES

15 30 05 WATER STORAGE TANK (IF REQUIRED)

15 30 06 SWITCHES

15 30 07 DRAIN LINES

15 30 08 FLOW TEST

15 30 09 SYSTEM TEST

15 40 00 PLUMBING

15 40 01 UNDERGROUND WATER SUPPLY

15 40 02 HOT AND COLD WATER SUPPLY LINES

15 40 03 WATER PRESSURE BOOSTER (IF REQUIRED)

15 40 04 DRINKING FOUNTAINS

15 40 05 EXTERIOR UNDERGROUND SANITARY SEWER WASTE LINE

15 40 06 INTERIOR SANITARY SEWER WASTE LINES

15 40 07 SEWER INSPECTION

15 40 08 SANITARY SEWER AND WASTE LINES

15 40 09 EXTERIOR HOSE BIBS

15 40 10 INTERIOR HOSE BIBS

15 40 11 ICE MAKER CONNECTION

15 40 12 FLOOR DRAINS

15 40 13 MOP SINKS

15 40 14 OIL-WATER SEPARATOR

15 70 00 HEATING, VENTILATING, AND AIR CONDITIONING (HVAC)

15 70 01 OFFICE AREAS

15 70 03 VENTING SYSTEM

15 70 04 RESTROOMS EXHAUST FANS

15 70 05 LOW VOLTAGE CONTROLS AND WIRING

15 70 06 IT ROOM

15 70 07 RISER / METER ROOM(S)

DIVISION 16 – ELECTRICAL

16 00 01 INCOMING SERVICES

16 00 02 MAIN SWITCHBOARDS

16 00 03 STEP-DOWN TRANSFORMERS

16 00 04 ELECTRICAL DISTRIBUTION

16 00 05 PHONE / DATA OUTLETS

16 00 06 IT ROOM

16 00 07 FIRE ALARM PANEL

16 00 08 WAREHOUSE / DOCK AREA 110V DUPLEX OUTLETS

16 00 09 EMERGENCY BACK-UP GENERATOR

16 50 00 LIGHTING

16 50 01 EXTERIOR LIGHTING

16 50 02 INTERIOR LIGHTING

16 50 03 EMERGENCY AND EXIT LIGHTING

16 50 04 EXIT SIGNS

16 70 00 FIRE DETECTION AND ALARM ANNUNCIATION PANELS AND FIRE STATIONS

~~16 00 11 Truck heater plugs~~

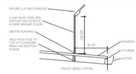
- ~~As determined by the electrical engineer, provide exterior weather-grade panels and transformers in close proximity to truck heater plug locations; plug locations to be at all tractor parking locations (1 plug for each space). As per Section 16 00 04, include room for 20% spares in any panel.~~
- ~~Provide each 110V weatherproof GFCI outlet on a dedicated circuit, meaning each duplex receptacle will be on two [2] separate circuits (side-by side parking) or each quad receptacle will be on four [4] separate circuits (nose-to-nose parking, side-by-side).~~
- ~~Refer to Section 05 00 09 for heater posts on to which outlet(s) will be mounted; one [1] post with two [2] hooks and duplex receptacle shall be utilized for every two [2] tractor parking spaces (in side-by-side parking configuration). Alternatively, one [1] post with four [4] hooks and quad receptacle shall be utilized for every four [4] tractor parking spaces (in nose-to-nose and side-by-side parking configuration).~~

16 50 00 Lighting

- All lighting to be LED throughout the project
- Use 4000K color temperature for all interior lighting; use 5000K color temperature for all exterior lighting.
- Provide 120-277 M/V fixtures for all lighting applications.
- All lighting panels shall be 277V.
- Light fixtures must be installed to maintain clear height.

16 50 01 Exterior lighting

- Minimum 1-FC, with an average of 2-FC at 3'-0" above the surface, in all exterior pavement areas. All site and building lighting must be shielded and downward directed to prevent light spilling across property line(s).
- Building-mounted floods are permitted on dock building at sidewall overhangs only (at Contractor's option can include two [2] fixtures with bulbhorn, per pole), per detail shown below,



EXTERIOR LIGHTING DETAIL

NOT TO SCALE

- Tenant's preferred exterior flood: Howard Lighting Products "LA1" fixture per configuration below,

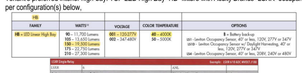
Series Prefix	Lumen Package	Generation Driver	Optics	Color Temperature	Housing Color	Surge Protection	Photo Control Receptacle	Controls	Options
LA0812 Medium	**A-** 10WW, 14,500 Lumens **B-** 15WW, 22,000 Lumens	**MW-** 120-277 VAC, 50/60 Hz	**3-** Type 3	**30K-** 3000K, 70+CRI	**BZ-** Bronze	**N-** 10kV	**NC-** No Control	**(Blank)** Not Applicable	**(Blank)** Not Applicable
		HV- 347-480 VAC, 50/60 Hz	**4-** Type 4	**40K-** 4000K, 70+CRI	**BK-** Black	**P-** 20kV	**PT-** 7-pin Twist-Lock Control Receptacle	**SC-** Photocell, Cap-Capable Control Receptacle	**HS-** Houseside Shield
LA1610 Large	**B-** 24WW, 35,500 Lumens **C-** 33WW, 48,500 Lumens		**R-** Rotatable Round	**50K-** 5000K, 70+CRI	**WH-** White			**MS/PC-** Motion Sensor	**WG-** Wire Guard

- Provide LED type wall pack light fixtures mounted on building exterior wall, equally spaced along the building(s) perimeter walls, including above all man doors.
- Provide light poles with flood fixtures as needed. Poles shall be square, tapered steel on concrete base and factory-finished to match luminaries. Poles shall have a minimum height equal to 30'-0" above grade (or to match existing poles, if applicable).

- All light pole bases shall be cast-in-place concrete piers with a minimum of 4'-0" exposure above grade, with steel pole mounted to top secured with appropriate anchor bolts. Piers shall be designed and engineered to resist wind loads as required by Code and/or local jurisdiction.
- All yard lighting to have conductors fed underground via conduit.
- All exterior lighting, signage, etc. shall be on same astronomical timer. Photocells will not be allowed. Timer must also have independent lithium-ion battery back-up to eliminate reprogramming requirements.

16 50 02 Interior lighting

- Office & Break area(s): 50-FC average at 36" work surface, LED lay-in fixtures. Provide night and emergency lighting circuit. Quality of light shall be uniform throughout without "hot" spots. All private offices shall have Leviton brand lighting controls. Include occupancy and daylight sensors throughout.
- Restroom(s): 50-FC average at 36" work surface, LED recessed fixtures in conjunction with vanity fixtures at mirror locations. Provide night and emergency lighting circuit. Quality of light shall be uniform throughout without "hot" spots. Each restroom shall be controlled with heat-sensitive occupancy sensor, ceiling mounted.
- Warehouse / Dock area; 30-FC average at 36" work surface, LED high-bay fixtures. Provide night and emergency lighting circuit. Quality of light shall be uniform throughout without "hot" spots. All warehouse light fixtures to be on individual, combination occupancy and daylight-harvesting sensors. Include 10'-0" long power whip so fixtures may be relocated in the future as deemed necessary by the Tenant.
- Shop area; 50-FC average at 36" work surface, LED high-bay fixtures. Provide night and emergency lighting circuit. Quality of light shall be uniform throughout without "hot" spots. All warehouse light fixtures to be on individual, combination occupancy and daylight-harvesting sensors. Include 10'-0" long power whip so fixtures may be relocated in the future as deemed necessary by the Tenant.
- Tenant's preferred interior high-bay: TCP LED High Bay "HB" fixture with Acuity Brands "LSXR" occupancy sensor per configuration(s) below,





16 50 03 Emergency and exit lighting

- Provide emergency and exit lighting according to local, state, federal as well as NFPA code(s).
- Provide surface mounted fixtures and/or lay-in LED fixtures with emergency back-up to provide 3-FC at emergency egress aisles, conference rooms, break area, open office areas, clinic and restrooms for no less than 90 minutes.
- All emergency light fixtures shall be on isolated independent circuit.
- Provide one (1) emergency light fixture at electrical room and riser room. Fixture shall be rated.

16 50 04 Exit Signs

All exterior doors must have an electric exit sign with battery back-up.

16 70 00 Fire Detection and Alarm Annunciation Panels and Fire Stations

Provide a fire alarm system consisting of manual pull stations, photoelectric smoke detector(s), water flow switches at risers, control valve supervision, and a remote slave enunciator panel. Provide and install horns and strobes to comply with NFPA,

and local Building Code. Include cellular dialer, with redundant cellular back-up, if allowed by local Fire Marshall. Fire alarm system shall be proprietary. Verify existing system.

---------- END OF PROJECT CRITERIA ----------

CROWN ENTERPRISES LLC

STATE OF GEORGIA
JON TALTY
CERTIFICATE NO. RA 017698
REGISTERED ARCHITECT

NO.	ISSUED FOR:	DATE
1	PERMIT	06/27/2025
	BID	08/04/2023

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CROWN MORELAND AVENUE MAINTENANCE SHOP

2750 MORELAND AVENUE
ATLANTA, GEORGIA

PROJECT CRITERIA

DRAWN BY: BD CHECKED: ES/NS

DATE: 01/03/2024

SHEET NO.: G204

PROJ. NO.: 22129

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MATERIALS DESIGNATIONS

CONCRETE

CONCRETE

PRECAST CONCRETE

CEMENTITIOUS DECKS & TOPPINGS

MORTAR / SETTING BED/ GROUT

EARTHWORKS

GRAVEL / GRANULAR FILL

EARTH

SAND

FINISHES

ACOUSTIC TILE CEILING - SECTION/DETAIL

PLYWOOD

PARTICLE BOARD

GYPSUM WALL BOARD, CAST STONE, PLASTER, GROUT, CEMENT, MORTAR

GRANITE/MARBLE

MASONRY

MASONRY - GLAZED BRICK

MASONRY BRICK

MASONRY CONCRETE BLOCK

BRICK - ELEVATION, RUNNING BOND

METAL

ALUMINUM

STEEL

THERMAL & MOISTURE PROTECTION

BATT INSULATION

EIFS - ELEVATION

RIGID INSULATION

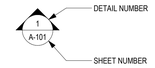
SYMBOLS LIST



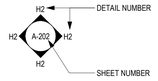
CALLOUT HEAD

CENTER LINE

DOOR TAG



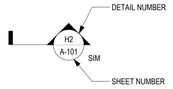
ELEVATION TAG



ELEVATION TAG (INTERIOR)



GRID HEAD



SECTION TAG

LEVEL HEAD



NORTH ARROW
IDENTIFY PROJECT NORTH AND TRUE NORTH

REVISION TAG


ACCESSIBLITY SYMBOL



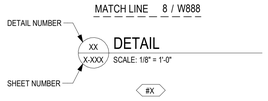
ROOM TAG



ROOM TAG (WITH AREA)



VIEW REFERENCE



VIEW TITLE



PARTITION TAG

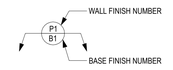


WINDOW TAG

TD = 0' - 0" TRAVEL DISTANCE

RD = 0' - 0" REMOTE DOOR

RP = 0' - 0" REMOTE POINT



WALL AND BASE FINISH TAG



FLOOR FINISH TAG



FLOOR TRANSITION TAG

ABBREVIATIONS LIST

&	AND
@	AT
A/C	AIR CONDITIONER / CONDITIONING
ACCS	ACCESSORIES
ACST	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITIES ACT
ADDL	ADDITIONAL
ADJ	ADJUSTABLE / ADJACENT
ADMIN	ADMINISTRATION
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AFC	ABOVE FINISHED COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFS	ABOVE FINISHED SLAB
AHU	AIR HANDLING UNIT
AL / ALUM	ALUMINUM
ALT	ALTERNATE
AP	ACCESS PANEL
APC	ACOUSTICAL PANEL CEILING
APPROX	APPROXIMATELY
ARCH	ARCHITECT(URAL)
ASPH	ASPHALT
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
AUTO	AUTOMATIC
AVG	AVERAGE
B/STL	BOTTOM OF STEEL
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
BS	BOTH SIDES
CAB	CABINET
CAS	CASEWORK
CB	CATCH BASIN
CF	CUBIC FOOT
CG	CORNER GUARD
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEAN/CLEAR OUT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CORR	CORRIDOR
CPT	CARPET(ED)(ING)
CT	CERAMIC TILE
CTR	COUNTER
DBL	DOUBLE
DEFS	DIRECT APPLIED EXTERIOR FINISH SYSTEM
DEG	DEGREE
DEMO	DEMOLISH
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DWG	DRAWING
E	EAST
EA	EACH
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSED / ENCLOSURE
ENG	ENGINEER
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EQ	EQUAL(LY)
EQPT	EQUIPMENT
EST	ESTIMATE
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FF	FACE TO FACE
FIN	FINISH(ED)
FIXT	FIXTURE
FL	FLOOR
FLUOR	FLUORESCENT
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FOW	FACE OF WALL
FP	FIREPROOF
FR	FRAME
FRC	FIBER REINFORCED CONCRETE
FRGP	FIBER REINFORCED GYPSUM PLASTER
FRT	FIRE RETARDANT TREATED
FS	FLOOR SINK
FTG	FOOTING
FUT	FUTURE
GA	GAUGE
GALV	GALVANIZE(D)
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GL	GLASS / GLAZING
GND	GROUND
GR	GRADE
GYP	GYPSUM
GYP BD	GYPSUM BOARD
HB	HOSE BIB
HCP	HANDICAPPED
HD	HEAVY DUTY
HDR	HEADER
HDWR / HW	HARDWARE
HI	HIGH
HM	HOLLOW METAL
HOR / HORIZ	HORIZONTAL
HP	HIGH POINT
HR	HANDRAIL
HR	HOUR
HT	HEIGHT
HVAC	HEATING / VENTILATION / AIR CONDITIONING
HYD	HYDRANT
ID	INSIDE DIAMETER
IN	INCH / INCHES
INCL	INCLUDE(D) / INCLUDING
INSUL	INSULATE / INSULATION
INT	INTERIOR
JAN	JANITOR
JT	JOINT
KIT	KITCHEN
LAB	LABORATORY
LAM	LAMINATE(D)
LAV	LAVATORY
LB(S)	POUND(S)
LF	LINEAR FOOT (FEET)
LH	LEFT HAND
LP	LOW POINT
LT	LIGHT
LVR	LOUVER
MACH	MACHINE
MAINT	MAINTENANCE
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURE(R)
MH	MANHOLE
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MLD / MLDG	MOULDING
MO	MASONRY OPENING
MR	MOISTURE RESISTANT
MTD	MOUNTED
MTL	METAL
MUL	MULLION
N	NORTH
NA OR N/A	NOT AVAILABLE / APPLICABLE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO / #	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFF	OFFICE
OPG / OPNG	OPENING
OPP	OPPOSITE
OZ	OUNCE
PART	PARTIAL
PAT	PATTERN
PBD	PARTICLE BOARD
PC / PCC	PRECAST CONCRETE
PERF	PERFORATED
PERP	PERPENDICULAR
PL	PROPERTY LINE
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLYWD	PLYWOOD
PMF	PRESSED METAL FRAMES
PNT	PAINT(ED)
POP	POINT OF PRESENCE
PR	PAIR
PRCST	PRE-CAST
PREFAB	PREFABRICATED
PROP	PROPERTY
PRT	PORCELAIN TILE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
R	RISER
RAD	RADIUS
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN, REMOTE DOOR
REF	REFERENCE
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCE(D)
REQ	REQUIRED
RET	RETAINING
REV	REVISE / REVISION
RFG	ROOFING
RFL	REFLECTED
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
RP	REMOTE POINT
RS	RUBBER SHEET FLOORING
RST	RUBBER STAIR TREADS
S	SOUTH
SAFB	SOUND ATTENUATION FIRE BLANKET
SC	SOLID CORE
SCHED	SCHEDULE
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SHTG	SHEATHING
SHWR	SHOWER
SIM	SIMILAR
SOG	SLAB ON GRADE
SPEC	SPECIFY / SPECIFICATION
SPK	SPEAKER
SQ	SQUARE
SQFT	SQUARE FEET
SQIN	SQUARE INCH(ES)
SS	STAINLESS STEEL
ST	STONE
STA	STATION
STD	STANDARD
STDS	STUDS
STIFF	STIFFENER
STL	STEEL
STN	STAINED
STOR	STORAGE
STRUCT	STRUCTURE / STRUCTURAL
SUSP	SUSPENDED
SW	SWITCH
SYM	SYMMETRICAL
SYN	SYNTHETIC
SYS	SYSTEM
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TBD	TO BE DETERMINED
TC	TOP OF CURB
TD	TRAVEL DISTANCE
TEL	TELEPHONE
TEMP	TEMPORARY / TEMPERATURE
TER	TERRAZZO
THK	THICK
THRU	THROUGH
TOC	TOP OF CONCRETE
TOS	TOP OF SLAB
TOW	TOP OF WALL
TV	TELEVISION
TYP	TYPICAL
UC	UNDERCUT
UG	UNDERGROUND
UL	UNDERWRITER'S LABORATORY
UNF / UNFIN	UNFINISHED
UON / UNO	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLT
VAC	VACUUM
VB	VAPOR BARRIER
VENT	VENTILATE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VOL	VOLUME
VT	VINYL TILE
VTR	VENT THRU ROOF
W	WEST
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WF	WIDE FLANGE
WG	WIRE GLASS
WH	WALL HOSE / HYDRANT
WIN	WINDOW
WK	WORK
WP	WATERPROOF(ING)
WPT	WORK POINT
WR	WATER RESISTANT
WT	WEIGHT
YD	YARD

CROWN ENTERPRISES LLC

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CERTIFICATE NO. RA 017698
REGISTERED ARCHITECT

NO.	ISSUED FOR:	DATE
1	PERMIT	06/27/2025
	BID	08/04/2023

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ABBREVIATIONS AND LEGENDS

DRAWN BY: BD CHECKED: NS

DATE: 01/03/2024

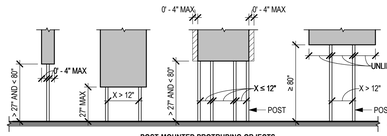
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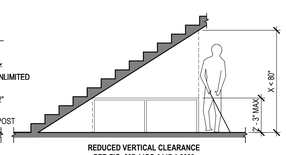
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PROTRUDING OBJECTS

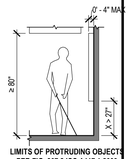
COMPLIANCE NOTES
1. OBJECT WITH LEADING EDGES MORE THAN 27" AND NOT MORE THAN 80" ABOVE THE FLOOR SHALL PROTRUDE 4" MAXIMUM HORIZONTALLY INTO THE CIRCULATION PATH PER ICC A117.1-209 FIG. 307.2.
2. RAILS OR OTHER BARRIERS SHALL BE PROVIDED WHERE VERTICAL CLEARANCE IS LESS THAN 80". THE LEADING EDGE OF SUCH A BARRIER SHALL BE 27" MAXIMUM ABOVE THE FLOOR PER ICC A117.1-2009 SECTION 307.4.



POST-MOUNTED PROTRUDING OBJECTS PER FIG. 307.3 ICC A117.1-2009



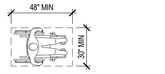
REDUCED VERTICAL CLEARANCE PER FIG. 307.4 ICC A117.1-2009



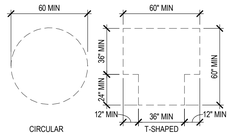
LIMITS OF PROTRUDING OBJECTS PER FIG. 307.2 ICC A117.1-2009

CLEARANCES AND FLOOR SPACE

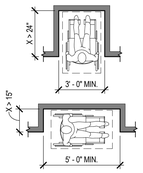
COMPLIANCE NOTES
1. A TURNING SPACE SHALL BE CIRCULAR OR T-SHAPED PER ICC A117.1-209 FIG. 304.3.
2. A CLEAR FLOOR SPACE SHALL BE 30"x48" PER ICC A117.1-209 FIG. 305.3.
3. SLOPES STEEPER THAN 1:48 ARE NOT PERMITTED IN TURNING SPACES OR CLEAR FLOOR SPACES PER ICC A117.1-2009 SECTION 304.2 & 305.2.
4. WHERE SPACE BENEATH AN ELEMENT IS INCLUDED AS PART OF THE CLEAR FLOOR SPACE, CLEARANCE AT AN ELEMENT, OR TURNING SPACE THE SPACE SHALL COMPLY WITH KNEE AND TOE CLEARANCES PER ICC A117.1-209 FIG. 306.2 & 306.3.



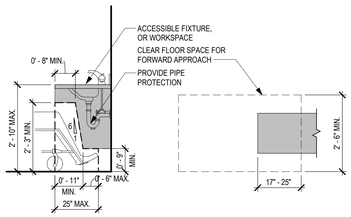
SIZE OF CLEAR FLOOR SPACE PER 305.3 ICC A117.1-2009



SIZE OF TURNING SPACE PER FIG. 304.3 ICC A117.1-2009



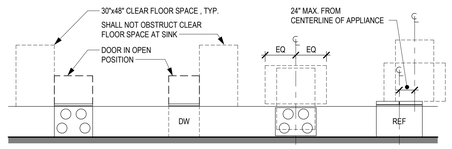
MANEUVERING CLEARANCE IN AN ALCOVE PER FIG. 305.7 ICC A117.1-2009



KNEE AND TOE CLEARANCES PER FIG. 306.2, 306.3 ICC A117.1-2009

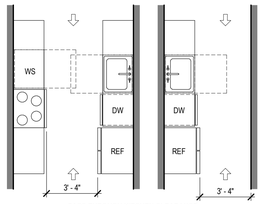
KITCHENS AND KITCHENETTES

COMPLIANCE NOTES
1. AT LEAST ONE ACCESIBLE WORK SURFACE SHALL BE PROVIDED PER ICC A117.1-2009 SECTION 804.3. SPACES THAT DO NOT PROVIDE A COOKTOP OR RANGE SHALL NOT BE REQUIRED TO PROVIDE AN ACCESSIBLE WORKSPACE.
2. THE SINK SHALL BE ACCESSIBLE PER ICC A117.1-2009 SECTION 804.4.
3. WHERE PROVIDED, ALL APPLIANCES SHALL BE ACCESSIBLE IN ACCORDANCE WITH ICC A117.1-2009 SECTION 804.5.

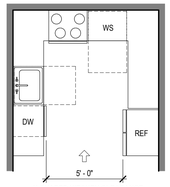


OVEN PER ICC A117.1-2009 804.5.5 | DISHWASHER PER ICC A117.1-2009 804.5.5 | COOKTOP PER ICC A117.1-2009 804.5.5 | REFRIGERATOR PER ICC A117.1-2009 804.5.5

CLEAR FLOOR SPACE AT KITCHEN APPLIANCES



PASS-THROUGH KITCHEN CLEARANCE PER ICC A117.1-2009 FIG. 804.2.1

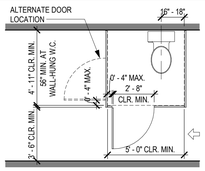


U-SHAPED KITCHEN CLEARANCE PER ICC A117.1-2009 FIG. 804.2.1

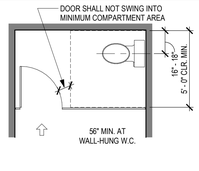
KITCHEN CLEARANCE

PLUMBING ELEMENTS AND FACILITIES

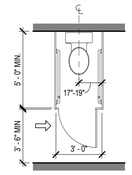
TOILET AND BATHING ROOMS
1. A TURNING SPACE SHALL BE PROVIDED WITHIN THE ROOM PER ICC A117.1-2009 SECTION 603.2.1. THE REQUIRED TURNING SPACE SHALL NOT BE PROVIDED WITHIN A TOILET COMPARTMENT.
2. DOORS SHALL NOT SWING INTO THE CLEAR FLOOR SPACE OR CLEARANCE FOR ANY FIXTURE PER ICC A117.1-2009 SECTION 603.2.2 EXCEPT IN ROOMS FOR INDIVIDUAL USE WHERE A CLEAR FLOOR SPACE IS PROVIDED BEYOND THE ARC OF THE DOOR SWING.



WHEELCHAIR ACCESSIBLE TOILET COMPARTMENTS PER ICC A117.1-2009 FIG. 604.9.2

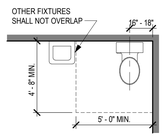


WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT - ALTERNATE PER ICC A117.1-2009 FIG. 604.9.3.1 (C)

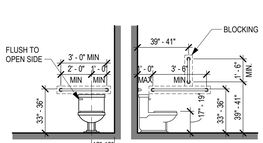


AMBULATORY ACCESSIBLE COMPARTMENT PER ICC A117.1-2009 FIG. 604.10

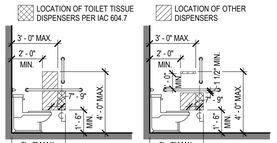
ACCESSIBLE TOILET COMPARTMENTS



WATER CLOSET LOCATION & CLEARANCE PER ICC A117.1-2009 FIG. 604.2, 604.3

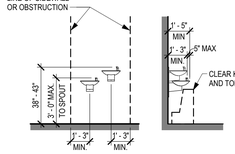


WATER CLOSET & GRAB BAR LOCATION PER ICC A117.1-2009 FIG. 604.4, 604.5.1, 604.5.2

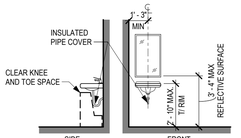


DISPENSER OUTLET LOCATION PER ICC A117.1-2009 FIG. 604.7

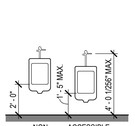
ACCESSIBLE WATER CLOSETS



ACCESSIBLE DRINKING FOUNTAIN PER ICC A117.1-2009 FIG 602.5



LAVATORY AND MIRROR PER ICC A117.1-2009 SECTIONS 603.3 & 603.3



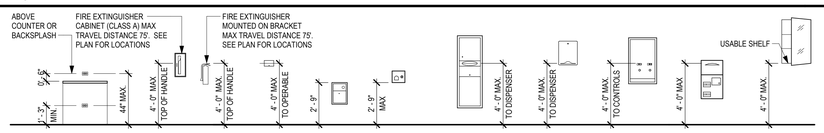
HEIGHT OF URINALS PER ICC A117.1-2009 FIG. 605.2

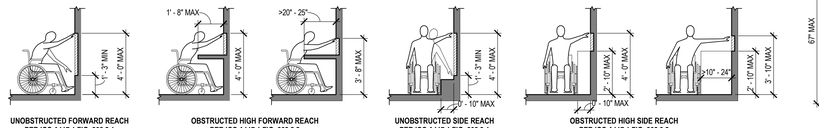
ACCESSIBLE FIXTURES

TYPICAL MOUNTING HEIGHTS

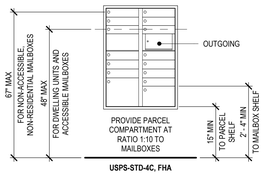
INSTALLATION NOTES:
1. KEY IS PROVIDED TO ESTABLISH MOUNTING HEIGHTS AS REQUIRED BY CODE OR OFFICE STANDARDS. SEE SPECIFICATIONS AND FLOOR PLANS FOR EQUIPMENT DESIGN MODEL NO. AND PLAN LOCATION.
2. MOUNTING HEIGHTS ARE DIAGRAMMATIC, NOT FOR ALIGNMENT.
3. G.C. TO PROVIDE FIRE RETARDANT BLOCKING IN WALL FOR MOUNTING ACCESSORIES AND FIXTURES.
4. ALL BLOCKING AT GRAB BARS TO MEET REQUIRED PULL FORCE AS STATED BY APPLICABLE CODES

COMPLIANCE NOTES
1. A CLEAR FLOOR SPACE COMPLYING WITH SECTION 305 SHALL BE PROVIDED AT ALL OPERABLE PARTS PER ICC A117.1-2009 SECTION 309.2.
2. OPERABLE PARTS SHALL BE PLACED WITHIN ONE OR MORE OF THE REACH RANGES SPECIFIED IN ICC A117.1-2009 SECTION 308. PER SECTION 309.
3. OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHTS GRASPING, PICHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5.0 POUNDS MAXIMUM PER ICC A117.1-2009 SECTION 309.4.





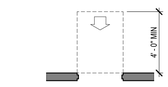
UNOBSTRUCTED FORWARD REACH PER ICC A117.1 FIG. 308.2.1 | OBSTRUCTED HIGH FORWARD REACH PER ICC A117.1 FIG. 308.2.2 | UNOBSTRUCTED SIDE REACH PER ICC A117.1 FIG. 308.3.1 | OBSTRUCTED HIGH SIDE REACH PER ICC A117.1 FIG. 308.3.2



USPS-STD-4C, FHA

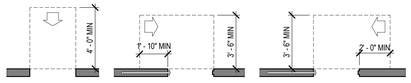
DOORS AND DOORWAYS

COMPLIANCE NOTES
1. DOORWAYS SHALL HAVE A CLEAR WIDTH OF 32" MINIMUM PER ICC A117.1-2009 SECTION 402.2.2. DOORWAYS WITH SWINGING DOORS SHALL BE MEASURED BETWEEN THE FACE OF DOOR AND STOP WITH THE DOOR OPEN 90 DEGREES.
2. ALL DOORWAYS SHALL HAVE THE REQUIRED MANEUVERING CLEARANCES PER ICC A117.1-2009 SECTION 404.2.3.
3. ALL OPERABLE DOOR HARDWARE SHALL BE EASY TO OPERATE WITH ONE HAND WITHOUT TIGHT GRASPING OR TWISTING OF THE WRIST TO OPERATE AND SHALL BE LOCATED BETWEEN 34" AND 48" ABOVE THE FLOOR PER ICC A117.1-2009 SECTION 404.2.6.
4. DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGRESS THE TIME REQUIRED TO MOVE THE DOOR TO AN OPEN POSITION OF 12 DEGREES SHALL BE 5 SECONDS MINIMUM PER ICC A117.1-2009 SECTION 404.2.7.1.
5. THE FORCE FOR PUSHING OR PULLING OPEN DOORS OTHER THAN FIRE DOORS SHALL BE 5.0 POUNDS MAXIMUM PER ICC A117.1-2009 SECTION 404.2.8.
6. THE FORCE FOR PUSHING OR PULLING OPEN EXTERIOR HINGED DOORS AND GATES SHALL BE 8.5 POUNDS MAXIMUM PER IAC-2018 SECTION 404.2.9.
7. DOOR SURFACES WITHIN 10" OF THE FLOOR SHALL BE A SMOOTH SURFACE ON THE PUSH SIDE PER ICC A117.1-2009 SECTION 404.2.9.
8. DOOR LITES AND SIDELITES THAT PERMIT VIEWING SHALL HAVE THE BOTTOM PANEL 43" MAXIMUM ABOVE THE FLOOR PER ICC A117.1-2009 SECTION 404.2.10.



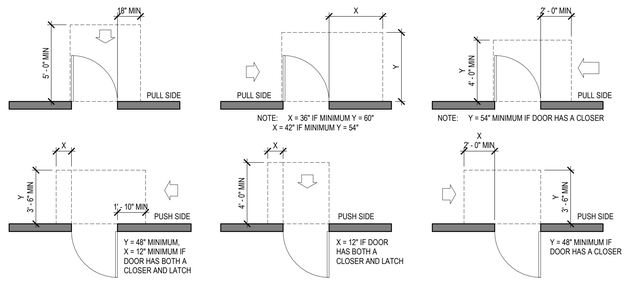
(a) FRONT APPROACH (b) SIDE APPROACH

MANEUVERING CLEARANCES FOR DOORWAYS WITHOUT DOORS
(PER ICC 117.1-2009 SECTION FIG. 404.2.3.4

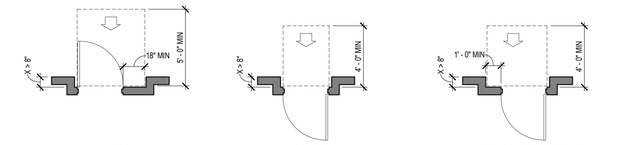


(a) FRONT APPROACH (b) POCKET OR HINGE APPROACH (c) STOP OR LATCH APPROACH

MANEUVERING CLEARANCES AT SLIDING AND FOLDING DOORS
PER ICC 117.1-2009 SECTION FIG. 404.2.3.3

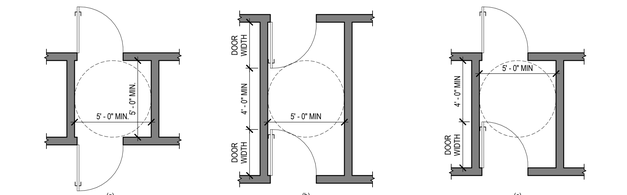


MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS
PER ICC 117.1-2009 SECTION FIG. 404.2.3.2 & IAC 2018 FIG. 404.2.4.1



(a) PULL SIDE (b) PUSH SIDE (c) PUSH SIDE, DOOR PROVIDED WITH BOTH CLOSER AND LATCH

MANEUVERING CLEARANCES FOR RECESSED DOORS
(PER ICC 117.1-2009 SECTION FIG. 404.2.3.5

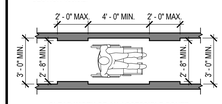


(a) (b) (c)

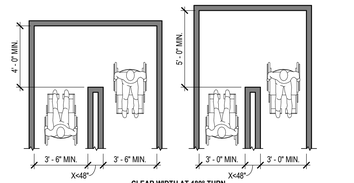
MANEUVERING CLEARANCES FOR TWO DOORS IN A SERIES
(PER ICC 117.1-2009 SECTION FIG. 404.2.5

CLEAR WIDTH

COMPLIANCE NOTES
1. CLEAR WIDTH OF AN ACCESSIBLE ROUTE SHALL BE 36" EXCEPT AS ILLUSTRATED IN ICC A117.1-2009 FIG 403.5.
2. CLEAR WIDTH AT 180° TURN SHALL BE AS ILLUSTRATED IN ICC A117.1-2009 FIG 403.5.1.
3. AN ACCESSIBLE ROUTE WITH A CLEAR WIDTH LESS THAN 60" SHALL PROVIDE PASSING SPACES AT INTERVALS OF 200' MAXIMUM PER ICC A117.1-2009 SECTION 403.5.2.

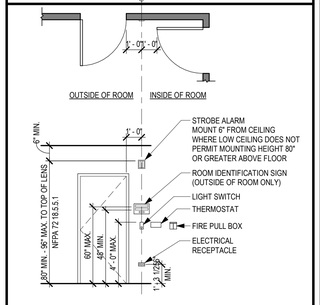


CLEAR WIDTH OF AN ACCESSIBLE ROUTE PER FIG. 403.5 ICC A117.1-2009



CLEAR WIDTH AT 180° TURN PER FIG. 403.5.1 ICC A117.1-2009

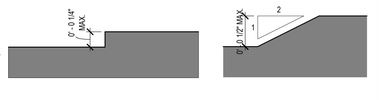
TYPICAL DEVICE LOCATIONS



DEVICE LOCATIONS ADJACENT TO DOORS

FLOOR SURFACES AND CHANGES IN LEVEL

COMPLIANCE NOTES
1. FLOOR SURFACES SHALL BE FIRM, STABLE, AND SLIP RESISTANT PER ICC A117.1-2009 SECTION 302.1.
2. CARPET PILE THICKNESS SHALL NOT TO EXCEED 1/2" PER IAC/ANSI A117.1-2009 SECTION 302.2.
3. OPENINGS IN FLOOR SURFACES SHALL NOT PERMIT PASSAGE OF A 1/2" DIAMETER SPHERE. ELONGATED OPENINGS SHALL BE PLACED SUCH THAT THE LONG DIMENSION IS PERPENDICULAR TO THE PREDOMINANT DIRECTION OF TRAVEL PER ICC A117.1-2009 SECTION 302.3.
4. THRESHOLDS SHALL BE A MAXIMUM 1/2" WITH A 1:2 BEVEL OR 1/4" VERTICAL PER ICC A117.1-2009 SECTIONS 303.2 AND 303.3.



CARPET ON FLOOR SURFACES FIG. 302.2 ICC A117.1-2009 | BEVELED CHANGES IN LEVEL FIG. 303.3 ICC A117.1-2009

ACCESSIBILITY NOTES

1. THIS PROJECT SHALL COMPLY WITH ALL APPLICABLE ACCESSIBILITY CODES, LAWS, AND GUIDELINES INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: LOCALLY ADOPTED BUILDING CODE, INTERNATIONAL CODE COUNCIL A117.1, ILLINOIS ACCESSIBILITY CODE (IAC), THE FAIR HOUSING ACT (FHA), AND THE AMERICANS WITH DISABILITIES ACT (ADA). ALL ELEMENTS AND SPACES NOTED AS "ACCESSIBLE" SHALL COMPLY WITH THE REQUIREMENTS THEREIN.
2. WHERE COMPLIANCE WITH ICC A117.1-2009 IS NOTED IT SHALL BE UNDERSTOOD THAT THE INTENT IS TO ACHIEVE COMPLIANCE WITH ALL APPLICABLE ACCESSIBILITY CODES. OTHER ACCESSIBILITY CODES HAVE BEEN DEEMED TO BE IN ACCORDANCE WITH ICC A117.1-2009 UNLESS NOTED OTHERWISE.

SCOPING REQUIREMENTS
1. ALL PUBLIC AND COMMON AREAS SHALL BE ACCESSIBLE PER IBC-2018 / CBC-2019 SECTION 1103.1.
2. EMPLOYEE WORK AREAS ARE ONLY REQUIRED TO PROVIDE AN ACCESSIBLE COMMON USE CIRCULATION PATH AND AN ACCESSIBLE MEANS OF EGRESS PER IBC-2018 / CBC-2019 SECTION 1103.2.2.
3. SPACES FREQUENTED ONLY BY SERVICE PERSONNEL FOR MAINTENANCE, REPAIR, OR OCCASIONAL MONITORING OF EQUIPMENT ARE NOT REQUIRED TO BE ACCESSIBLE PER IBC-2018 / CBC-2019 SECTION 1103.2.9.

ACCESSIBLE ROUTE
1. AT LEAST ONE ACCESSIBLE ROUTE WITHIN THE SITE SHALL BE PROVIDED FROM THE PUBLIC WAY AND ACCESSIBLE PARKING SPACES TO THE ACCESSIBLE BUILDING ENTRANCE PER IBC-2018 / CBC-2019 SECTION 1104.1.
2. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS, FACILITIES, ELEMENTS, AND SPACES WITHIN A SITE PER IBC-2018 / CBC-2019 SECTION 1104.2
3. AT LEAST ON ACCESSIBLE ROUTE SHALL CONNECT EACH ACCESSIBLE STORY, MEZZANINE, AND OCCUPIED ROOF IN MULTILEVEL BUILDINGS PER IBC-2018 / CBC-2019 SECTION 1104.4
4. ACCESSIBLE ROUTES SHALL COINCIDE WITH THE GENERAL CIRCULATION PATH PER IBC-2018 / CBC-2019 SECTION 1104.5.
5. ACCESSIBLE ROUTES SHALL CONSIST OF ONE OR MORE OF THE FOLLOWING COMPONENTS: WALKING SURFACES WITH A SLOPE NOT STEEPER THAN 1:20, DOORS AND DOORWAYS, RAMPS, CURB RAMPS, ELEVATORS, AND PLATFORM LIFTS.

ACCESSIBLE ENTRANCES
1. AT LEAST 60 PERCENT OF PUBLIC ENTRANCES SHALL BE ACCESSIBLE, AND AT LEAST ONE ACCESSIBLE ENTRANCE SHALL BE PROVIDED FOR EACH TENANT IN A FACILITY PER PER IBC-2018 / CBC-2019 SECTION 1105.1.

ACCESSIBLE PARKING AND PASSENGER LOADING
1. FOR EVERY SIX OR FRACTION OF SIX ACCESSIBLE PARKING SPACES AT LEAST ONE SHALL BE A VAN ACCESSIBLE SPACE PER IBC-2018 / CBC-2019 SECTION 1106.5.
2. ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON THE SHORTEST ACCESSIBLE ROUTE OF TRAVEL TO AN ACCESSIBLE BUILDING ENTRANCE PER IBC-2018 / CBC-2019 SECTION 1106.6. WHERE A BUILDING HAS MULTIPLE ACCESSIBLE ENTRANCES WITH ADJACENT PARKING ACCESSIBLE PARKING SPACES SHALL BE DISPERSED NEAR THE ACCESSIBLE ENTRANCES.
3. PASSENGER LOADING ZONES SHALL BE ACCESSIBLE PER IBC-2018 / CBC-2019 SECTION 1106.7.

FEATURES AND FACILITIES
1. EACH TOILET ROOM AND BATHING ROOM SHALL BE ACCESSIBLE PER IBC-2018 / CBC-2019 SECTION 1109.2. AT LEAST ONE OF EACH TYPE OF FIXTURE, ELEMENT, CONTROL, OR DISPENSER IN EACH ACCESSIBLE TOILET AND BATHING ROOM SHALL BE ACCESSIBLE.
2. IN ASSEMBLY OR MERCANTILE OCCUPANCIES AN ACCESSIBLE FAMILY OR ASSISTED-USE TOILET ROOM SHALL BE PROVIDED WHERE AN AGGREGATE OF SIX OR MORE MALE AND FEMALE WATER CLOSETS IS REQUIRED PER IBC-2018 / CBC-2019 SECTION 1109.2.1.
3. WHERE KITCHENS AND KITCHENETTES ARE PROVIDED IN ACCESSIBLE SPACES OR ROOMS THEY SHALL BE ACCESSIBLE PER IBC-2018 / CBC-2019 SECTION 1109.4.
4. WHERE DRINKING FOUNTAINS ARE PROVIDED NOT FEWER THAN TWO DRINKING FOUNTAINS SHALL BE PROVIDED ON A FLOOR PER IBC-2018 / CBC-2019 SECTION 1109.5.1. ONE DRINKING FOUNTAIN SHALL COMPLY WITH THE REQUIREMENTS FOR WHEELCHAIR USE AND ONE SHALL COMPLY FOR STANDING PERSONS.
5. WHERE FIXED OR BUILT-IN STORAGE IS PROVIDED IN ACCESSIBLE SPACES AT LEAST 5 PERCENT, BUT NOT LESS THAN ONE, OF EACH TYPE SHALL BE ACCESSIBLE PER IBC-2018 / CBC-2019 SECTION 1109.9.
6. CONTROLS, OPERATING MECHANISMS, AND HARDWARE INTENDED TO FOR OPERATION BY THE OCCUPANT SHALL BE ACCESSIBLE PER IBC-2018 / CBC-2019 SECTION 1109.13.

ALARMS
1. AUDIBLE AND VISIBLE ALARMS AND NOTIFICATIONS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72 PER ICC A117.1-2009 SECTION 702.1.

SIGNS
SEE G-201

DWELLING AND SLEEPING UNITS
SEE G-202

CROWN ENTERPRISES LLC

STATE OF GEORGIA
JON TALTY
CERTIFICATE NO. RA 017098
REGISTERED ARCHITECT

NO.	ISSUED FOR:	DATE
1	PERMIT	06/27/2025
BID		08/04/2025

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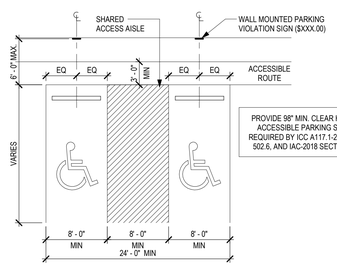
PUBLIC AND COMMON AREA ACCESSIBILITY

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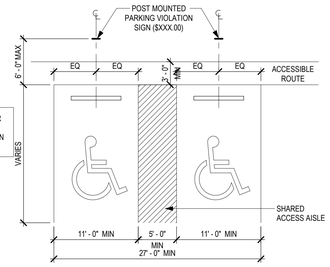
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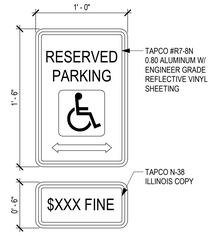
ACCESSIBLE PARKING SPACES



CONFIGURATION OF ACCESSIBLE PARKING SPACES PER IAC-2018 FIG. 502.2



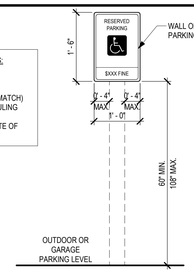
CONFIGURATION OF ACCESSIBLE PARKING SPACES PER IAC-2018 FIG. 502.3



PARKING SIGN PER IAC-2018 FIG. 502.6(a) & 502.6(b)

ACCESSIBLE PARKING SIGN NOTES:

1. COLORS & STYLE PER STATE STANDARDS SPECIFICATION (ALL SIGNS OF THIS TYPE TO MATCH)
2. VERIFY FINE AMOUNT WITH RULING JURISDICTION
3. MOUNTING HEIGHTS PER STATE OF ILLINOIS ACCESSIBILITY CODE

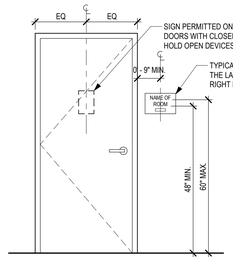


ACCESSIBLE PARKING IDENTIFICATION SIGN PER IAC-2018 SECTION 502.6

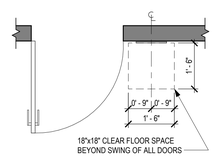
ACCESSIBLE SIGNS

ACCESSIBLE SIGN NOTES:

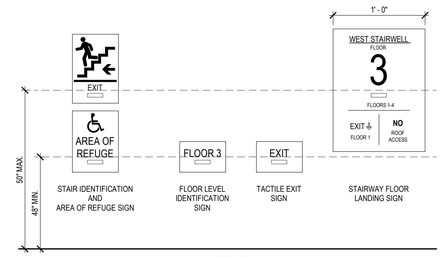
1. ACCESSIBLE SIGNS SHALL COMPLY WITH ICC A117.1-2009 AND IAC SECTION 703, AND THE AMERICANS WITH DISABILITIES ACT (ADA).
2. PROVIDE AN ACCESSIBLE SIGN AT EACH DOOR TO AN AREA OF REFUGE AND EXTERIOR AREAS FOR ASSISTED RESCUE PER IBC-2018 SECTION 1009.9.
3. PROVIDE AN ACCESSIBLE INSTRUCTION SIGN AT EACH AREA OF REFUGE AND EXTERIOR AREAS FOR ASSISTED RESCUE PER IBC-2018 SECTION 1009.11.
4. PROVIDE AN ACCESSIBLE SIGN AT EACH DOOR TO A STAIR, AN EXIT, AN EXIT STAIRWAY, AN EXIT PASSAGEWAY, AND THE EXIT DISCHARGE PER IBC-2018 SECTION 1013.4.
5. IN EACH INTERIOR EXIT STAIRWAY CONNECTING MORE THAN THREE STORIES PROVIDE STAIRWAY IDENTIFICATION SIGNAGE AT EACH LANDING AND PROVIDE AN ACCESSIBLE SIGN ADJACENT TO EACH DOORWAY INDICATING THE FLOOR LEVEL PER IBC-2018 SECTION 1023.9.
6. PROVIDE ACCESSIBLE SIGNAGE AT ALL PUBLIC RESTROOMS PER IBC-2018 SECTION 2902.4.
7. PROVIDE ACCESSIBLE SIGNAGE AT ACCESSIBLE PARKING SPACES, PASSENGER LOADING ZONES, AND ENTRANCES WHERE NOT ALL ENTRANCES ARE ACCESSIBLE PER IBC-2018 SECTION 1111.1.
8. PROVIDE ACCESSIBLE DIRECTIONAL SIGNAGE INDICATING THE ROUTE TO THE NEAREST LIKE ACCESSIBLE ELEMENT AT INACCESSIBLE BUILDING ENTRANCES, PUBLIC TOILET AND BATHING FACILITIES, ELEVATORS, EXITS AND EXIT STAIRWAYS, AND DRINKING FOUNTAINS PER IBC-2018 SECTION 1111.2.
9. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKROUND.
10. SIGNS SHALL BE ONE PIECE INJECTION MOLDED BY SETON OR APPROVED EQUAL UNLESS NOTED OTHERWISE.
11. COLORS TO BE DETERMINED BY ARCHITECT. CONTRACTOR TO SUBMIT COLOR CHARTS WITH SHOP DRAWINGS.



HEIGHT OF RAISED CHARACTERS ABOVE FLOOR PER FIG 703.3.10 ICC A117.1-2009



LOCATION OF ACCESSIBLE SIGNS AT DOORS PER FIG 703.3.11 ICC A117.1-2009



MEANS OF EGRESS IDENTIFICATION SIGNS PER IBC-2018 CHAPTER 10

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PUBLIC AND COMMON AREA ACCESSIBILITY

DRAWN BY: BD CHECKED: NS

DATE: 01/03/2024

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VAPOR RETARDER MATERIALS AND CLASSES SCHEDULE

VAPOR RETARDER CLASS	VAPOR RETARDER ACCEPTABLE MATERIALS
I	SHEET POLYTHYLENE, NONPERFTORATED ALUMINUM FOIL, OR OTHER APPROVED MATERIALS WITH A PERM RATING OF LESS THAN OR EQUAL TO 0.1
II	KRAFT-FACED FIBERGLASS BATTS OR VAPOR RETARDER PAINT OF OTHER APPROVED MATERIALS, APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS FOR A PERM RATING GREATER THAN 0.1 AND LESS THAN OR EQUAL TO 1.0
III	LATEX PAINT, EXTERIOR OR OTHER APPROVED MATERIALS, APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS FOR A PERM RATING OR GREATER THAN 1.0 AND LESS THAN OR EQUAL TO 10

VAPOR RETARDER MATERIAL NOTES:
1. INSULATION VALUES TO BE PROVIDED PER 2021 IECC
2. VAPOR RETARDER SHALL BE PROVIDED ON THE INTERIOR SIDE OF THERMALLY INSULATED FRAME WALL WHERE PERMITTED. REFER TO 'TABLE VAPOR RETARDER OPTIONS'

VAPOR RETARDER OPTIONS SCHEDULE

	VAPOR RETARDER CLASS		
CLIMATE ZONE	I	II	III
1, 2	NOT PERMITTED	NOT PERMITTED	PERMITTED
3	NOT PERMITTED	PERMITTED	PERMITTED
4 (EXCEPT MARINE)	NOT PERMITTED	PERMITTED	PERMITTED*
MARINE 4, 5, 6, 7, 8	PERMITTED	PERMITTED	PERMITTED*

VAPOR RETARDER OPTION NOTES:
1. INSULATION VALUES TO BE PROVIDED PER 2021 IBC
2. PROJECT STATE - COUNTY: CLIMATE ZONE 3A

* ALTERNATE CLASS III VAPOR RETARDERS PERMITTED

VAPOR RETARDERS - CLASS III ALTERNATE SCHEDULE

CLIMATE ZONE	CLASS III ALTERNATE VAPOR RETARDERS PERMITTED
4	CONTINUOUS INSULATION WITH R-VALUE ≥ R2.5 OVER 2X4 WALL; CONTINUOUS INSULATION WITH R-9.75 OVER 2X6 WALL
5	CONTINUOUS INSULATION WITH R-VALUE ≥ R-5 OVER 2X4 WALL; CONTINUOUS INSULATION WITH R-7.5 OVER 2X6 WALL
6	CONTINUOUS INSULATION WITH R-VALUE ≥ R-7.5 OVER 2X4 WALL; CONTINUOUS INSULATION WITH R-11.25 OVER 2X6 WALL
7	CONTINUOUS INSULATION WITH R-VALUE ≥ R-10 OVER 2X4 WALL; CONTINUOUS INSULATION WITH R-VALUE ≥ R-15 OVER 2X6 WALL
8	CONTINUOUS INSULATION WITH R-VALUE ≥ R-12.5 OVER 2X4 WALL; CONTINUOUS INSULATION WITH R-VALUE ≥ R-20 OVER 2X6 WALL

AIR BARRIER MATERIAL SCHEDULE

AIR BARRIER MATERIAL
BUILT-UP ROOFING MEMBRANE
CAST-IN-PLACE AND PRECAST CONCRETE
CEMENT BOARD HAVING A THICKNESS OF NOT LESS THAN 1/2"
CLOSED-CELL SPRAY FOAM HAVING A MINIMUM DENSITY OF 1.5 PCF AND HAVING A THICKNESS OF NOT LESS THAN 1-1/2"
CONCRETE MASONRY WALLS COATED WITH EITHER ONE APPLICATION OF BLOCK FILLER OR TWO APPLICATIONS OF A PAINT OR SEALER COATING
EXRUDED POLYSTYRENE INSULATION BOARD HAVING A THICKNESS OF NOT LESS THAN 1/2"
EXTERIOR OR INTERIOR GYPSUM BOARD HAVING A THICKNESS OF NOT LESS THAN 1/2"
FOIL-BACK POLYISO INSULATION BOARD HAVING A THICKNESS OF NOT LESS THAN 1/2"
FULLY GROUTED CONCRETE BLOCK MASONRY
MASONRY WALLS CONSTRUCTED OF CLAY SHALE MASONRY UNITS WITH A NOMIMAL WIDTH OF 4" OR MORE
MODIFIED BITUMINOUS ROOF MEMBRANE
OPEN-CELL SPRAY FOAM WITH A DENSITY BETWEEN 0.4 AND 1.5 PCF AND HAVING A THICKNESS OF NOT LESS THAN 4-1/2"
ORIENTED STRAND BOARD HAVING A THICKNESS OF NOT LESS THAN 3/8"
PLYWOOD WITH A THICKNESS OF NOT LESS THAN 3/8"
PORTLAND CEMENT/ SAND PARGE, STUCCO OR PLASTER NOT LESS THAN 1/2" IN THICKNESS
PORTLAND CEMENT/SAND PARGE, OR GYPSUM PLASTER HAVING THICKNESS OF NOT LESS THAN 5/8"
SHEET STEEL OR ALUMINIMUM
SINGLY-PLY ROOF MEMBRANE
SOLID OR HOLLOW MASONRY CONSTRUCTED OF CLAY SHALE MASONRY UNITS

AIR BARRIER MATERIAL TESTING NOTES:
1. INSULATION VALUES TO BE PROVIDED PER 2021 IECC
2. AIR BARRIER JOINTS ARE TO BE SEALED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
3. AIR BARRIER TESTING SHALL BE TESTED IN ACCORDANCE WITH ASTM E779, ANSI/RESNET/ISO 380, ASTM E3158 OR ASTM 1827, OR AN EQUIVALENT METHOD APPROVED BY THE CODE OFFICIAL. THE MEASURED AIR LEAKAGE SHALL NOT EXCEED 0.40 CFM/FT2 AT A PRESSURE DIFFERENTIAL OF 0.3" WATER GAUGE.
   A. TEST NOT REQUIRED AT CLIMATE ZONES 2B, 3B, 3C, & 5C.
   B. TEST NOT REQUIRED AT THERMAL AREAS MEASURING LARGER THAN 5,000SF AND IN CLIMATE ZONES 0B, 1, 2A, 4B, & 4C.
   C. TEST NOT REQUIRED AT THERMAL AREAS MEASURING BETWEEN 5,000SF - 500,000SF AND IN CLIMATE ZONES 0A, 3A, & 5B.
4. FACILITIES NOT COMPLETING AIR BARRIER TEST SHALL BE VERIFIED BY THE CODE OFFICIAL OR AN APPROVED THIRD-PARTY AGENCY.
   A. REVIEW OF THE CONSTRUCTION DOCUMENTS AND SUPPORTING DATA.
   B. INSPECTION OF CONTINUOUS AIR BARRIER COMPONENTS AND ASSEMBLIES DURING CONSTRUCTION WHILE AIR BARRIER IS STILL ACCESSIBLE AND AVAILABLE FOR REPAIR.
   C. A FINAL COMMISSIONING REPORT SHALL BE PROVIDED FOR INSPECTIONS COMPLETED BY AN APPROVED THIRD-PARTY AGENCY.

AIR BARRIER LOCATION SCHEDULE

	AIR BARRIER LOCATION	
CLIMATE ZONE	INSIDE	OUTSIDE
1, 2, 3	PROVIDE PER AIR BARRIER MATERIAL SCHEDULE	NONE
2B	NONE	NONE
4, 5, 6, 7, 8	NONE	PROVIDE PER AIR BARRIER MATERIAL SCHEDULE

AIR BARRIER LOCATION NOTES:
1. INSULATION VALUES TO BE PROVIDED PER 2021 IECC
2. PROJECT STATE - COUNTY: CLIMATE ZONE 3A
3. THE AIR BARRIER SHALL BE CONTINUOUS FOR WALL ASSEMBLY AT THERMAL ENVELOPE ACROSS ALL JOINTS AND ASSEMBLIES.
4. AIR BARRIER JOINTS AND SEAMS SHALL BE SEALED, INCLUDING IN PLACES AND CHANGES IN MATERIALS. THE JOINT AND SEALS SHALL BE SECURELY INSTALLED IN OR ON THE JOINT FOR THE ENTIRE LENGTH AS TO NOT DISLODGE, LOOSEN, OR IMPAIR FUNCTION OF BARRIER.
5. THE AIR BARRIER PENETRATIONS SHALL BE CAULKED, GASKETED, OR OTHERWISE SEALED IN A MANNER COMPATIBLE WITH CONSTRUCTION MATERIALS AND LOCATION.
6. RECESSED LIGHTING FIXTURES SHALL COMPLY WITH ONE OF THE FOLLOWING.
   A. IC-RATED
   B. AIR LEAKAGE RATE NOT MORE THAN 2.0CFM PER ASTM E283
   C. SEALED WITH A GASKET OR CAULK BETWEEN HOUSING AND WALL BOARD OR CEILING COVERING.

WALL BOARD SCHEDULE

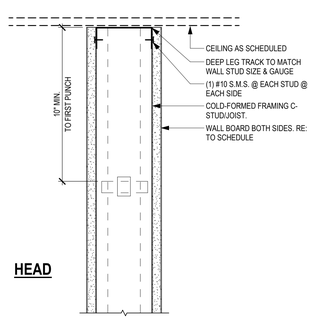
	PAINTED PARTITIONS (PARTITION GENERAL NOTE 3)	PAINTED CEILING & SOFFITS (PARTITION GENERAL NOTE 3)	TILED PARTITIONS & CEILING (PARTITION GENERAL NOTE 3)
ELEC / IT	TYPE X GYPSUM BOARD	N/A	N/A
FIRE RISER	TYPE X GYPSUM BOARD	N/A	N/A
JANITOR	MOISTER-RESISTANT GYPSUM BOARD	MOISTER-RESISTANT GYPSUM BOARD	N/A
TERMINAL	MOISTER-RESISTANT GYPSUM BOARD	MOISTER-RESISTANT GYPSUM BOARD	N/A
TOILET	MOISTER-RESISTANT GYPSUM BOARD	MOISTER-RESISTANT GYPSUM BOARD	GP - DENSSHIELD - TILE BACKER
TYPICAL CONDITIONS	TYPE X GYPSUM BOARD	TYPE X GYPSUM BOARD	GP - DENSSHIELD - TILE BACKER

INSULATION SCHEDULE

LOCATION	INSULATION TYPE	R-VALUE	REMARKS
EXTERIOR ENVELOPE AT NON-THERMALLY INSULATED AREAS	NONE	-	NONE
EXTERIOR ENVELOPE AT THERMALLY INSULATED AREAS	THERMAL INSULATION	R-13ci + R-13	INSULATED WALL PANEL CONTINUOUS 2" MINIMUM THICKNESS W/ BATT CAVITY INSULATION INFILL, VINYL BACKED.
EXTERIOR SLAB AT NON-THERMALLY INSULATED AREA PERIMETER	NONE	-	NONE
EXTERIOR SLAB AT THERMALLY INSULATED AREA PERIMETER	THERMAL INSULATION	R-10	24" BELOW GRADE
INTERIOR ABOVE CEILING AT NON-THERMALLY INSULATED AREAS	NONE	-	NONE
INTERIOR ABOVE CEILING AT THERMALLY INSULATED AREAS	NONE	-	NONE
INTERIOR BOTTOM OF ROOF DECK AT NON-THERMALLY INSULATED AREAS	NONE	-	NONE
INTERIOR BOTTOM OF ROOF DECK AT THERMALLY INSULATED AREAS	THERMAL INSULATION	R-19 + R-11 LS	INSTALL ENTIRELY AT UNDERSIDE OF ROOF ASSEMBLY. BATT CAVITY INSULATION INFILL W/ BATT LINER SYSTEM INSULATION, VINYL BACKED, AND COLOR WHITE
INTERIOR PARTITIONS AT JANITOR, MECH., ELEC., IT., UTILITY ROOMS	NONE	-	NONE
INTERIOR PARTITIONS AT OFFICE AREAS	NONE	-	NONE
INTERIOR PARTITIONS AT SHAFT WALL	SOUND INSULATION	-	MINERAL WOOL, 1-1/2" MINIMUM
INTERIOR PARTITIONS AT TOILET ROOMS	SOUND INSULATION	-	MINERAL WOOL, THICKNESS OF ASSOCIATED FRAMING
INTERIOR PARTITIONS SEPARATING THERMALLY INSULATED TO NON-THEMALLY INSULATED AREAS	THERMAL INSULATION	R-13ci + R-13	CONTINUOUS RIGID 2" MINIMUM THICKNESS W/ BATT CAVITY INSULATION INFILL, VINYL BACKED, AND COLOR WHITE
INTERIOR SLAB SEPARATING THERMALLY INSULATED TO NON-THEMALLY INSULATED AREA	THERMAL INSULATION	R-10	24" BELOW GRADE

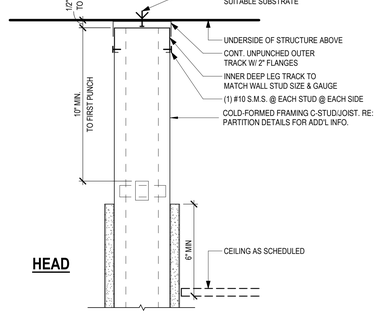
INSULATION GENERAL NOTES:
1. ci = CONTINUOUS INSULATION
2. LS = LINER SYSTEM
3. NR = NOT REQUIRED

PARTITION NOTES:
1. FIRE RESISTIVE RATINGS INDICATED ON INDIVIDUAL PARTITION TYPES ARE THE MAXIMUM AVAILABLE FOR THE CONFIGURATION SHOWN. REFER TO FLOOR PLANS FOR THE ACTUAL MINIMUM RATING REQUIRED FOR EACH PARTITION.
2. ALL INTERIOR NON-BEARING PARTITION FRAMING TO BE G60 ZINC COATED WITH 20-GA MINIMUM, U.N.O.
3. ALL WALL BOARD TO BE 5/8" THICKNESS, U.N.O.
4. ALL GPDW TO BE "TYPE X", U.N.O.
5. ALL S.A.B. TO BE INSTALLED TIGHT IN A COMPRESSION FIT TO STUDS, STRUCTURE, AND ADJACENT SURFACES. ALL S.A.B. PARTIALLY OR COMPLETELY FILLING STUD CAVITY IN RATED PARTITIONS SHALL BEAR THE U.L. CLASSIFICATION MARKING.
6. REFER TO OTHER DETAILS FOR ADDITIONAL PARTITION INFORMATION, TERMINATION, AND INTERFACE DETAILS.
7. REFER TO WALL SECTIONS FOR ELEVOPTIE WALL CONSTRUCTION.
8. WHERE A WALL IS BETWEEN TWO SPACES INDICATED WITH SEPARATE INSULATION & WALL BOARD TYPE, THE MORE EXPENSIVE, RIGID, CONSTRICTIVE MEANS SHALL BE PROVIDED.
9. CONTRACTOR SHALL COORDINATE JOINT AND HEAD TERMINATION DETAILS WITH ACTUAL FIELD CONDITIONS AND FURNISH PER DETAILS.
10. REFER TO PLANS FOR LOCATIONS OF PARTITIONS TYPES.
11. SEALANT NOTED FOR ALL WALL BOARD PARTITIONS SHALL BE TYPE (AS). SEALANT FOR MASONRY PARTITIONS SHALL BE TYPE (DPUMS). REFER TO SPECIFICATIONS FOR DESCRIPTIONS.
12. TAPE, BED, AND FINISH ALL CORNERS AND JOINTS READY FOR FINISH.
13. USE ZINC ALLOY STEEL CORNER REINFORCEMENT CASING BEADS, ETC. ON ALL APPLICATIONS. ALL BEADS TO BE POSITIVELY ATTACHED WITH FASTENERS. (CRIMP ATTACHMENT WILL NOT BE ACCEPTABLE)
14. PROVIDE CONTINUOUS SEALANT AT ALL DUCT, PIPE, AND CONDUIT PENETRATIONS THROUGH WALLS. SEALANT SHALL BE U.L. RATED AT AL PENETRATIONS IN RATED PARTITIONS.
15. ALL FIRE-RESISTIVE PARTITIONS SHALL BE CONSTRUCTED IN COMPLIANCE WITH U.L. TESTING REQUIREMENTS AND MANUFACTURER'S RECOMMENDATIONS OR CONDITIONS AS REQUIRED. CONSTRUCTION OF ALL SYSTEMS SHALL EQUAL THAT OF TESTED ASSEMBLY AND SHALL RECEIVE APPROVAL OF THE LOCAL BUILDING DEPARTMENT WHERE REQUIRED.
16. ALL FIRESAFED CMU WALLS SHALL HAVE CONTINUOUS FIRESAFING DENSITY AS SPECIFIED. FIRE RESISTANT JOINT FILLER AND ELECTROMERIC SEALANT AT THE TOP OF THE WALL AND UNDERSIDE OF STRUCTURE SHALL BE CONTINUOUS.
17. INTERIOR WALLS TO BE PREPARED FOR PAINT BY CONTRACTOR. ALL SURFACES SHALL BE MINIMUM LEVEL-4 FINISH, TAPED, SPACKLED SMOOTH & READY FOR PAINT WITHOUT ADDITIONAL PREPARATION. ALL SERVICE ROOMS AND CORRIDOR FACING WALLS TO BE PAINTED. COLOR AS SELECTED BY ARCHITECT
18. TYPICAL NON-DEMISE AND/OR STRUCUTRAL METAL STUDS AND CMU PARTITIONS ARE TO EXTEND TO 12'-0" AFF, U.N.O.
19. INSTALL CONTROL JOINTS IN WALL BOARD PER GYPSUM ASSOCIATION GUIDELINES AND SPECIFICATIONS AT NO MORE THAN 30'-0" OC (AREA BETWEEN CONTROL JOINTS SHOULD NOT EXCEED 900SF). PROVIDE UL LISTED FIRE RATED CONTROL JOINTS AT ALL FIRE RATED WALL PARTITIONS.
20. ALL CONCRETE WALL RATINGS BASED ON THE AMERICAN CONCRETE INSTITUTE (ACI) STANDARD METHOD FOR DETERMINING FIRE RESISTANCE OF CONCRETE & MASONRY CONSTRUCTION ASSEMBLIES TABLE 2.1 FIRE RESISTANCE OF SINGLE LAYER CONCRETE WALLS, FLOORS AND ROOFS SPECIFIES THAT 7" OF CONCRETE PROVIDES 4 HOUR RATING. BASED ON THIS 8" THICK WOULD PROVIDE MIN. 4 HOUR RATING.
21. TAPE AND FLOAT WALL BOARD EXTENDING 6" MINIMUM ABOVE SUSPENDED CEILING FINISHES.
22. EXPOSED CMU WALLS TO BE STRUCK FLUSH.
23. PROVIDE INSULATION LOCATION, TYPE AND MEASURE PER SCHEDULE.
24. PROVIDE SHEET METAL BLOCKING FOR ALL WALL-MOUNTED ACCESSORIES, FURNISHINGS, & EQUIPMENT.
25. PROVIDE GALVANIZED HEAVY DUTY SHEET METAL BLOCKING AT TOILET, JANITOR, AND RISER ROOMS AS REQ'D.
26. PROVIDE GP-DENSSHEILD TILE BACKER @ BACK & RETURN WALLS AT ALL SINKS, VANITIES, AND DRINKING FOUNTAINS WITHOUT TILE FINISH. LEVEL 5 FINISH - SKIM COAT SETTING-TYPE JOINT COMPOUND AT A TROWEL-APPLIED CONSISTENCY TO ENTIRE SURFACE. FINISH JOINTS & ANGLES WITH 2" WIDE FIBERGLASS MESH TAPE, EMBEDDED IN COMPOUND.



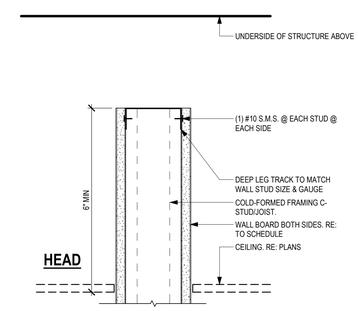
NOTE:
1. METAL STUD WIDTH: REFER TO PLANS OVERALL DIMENSION
2. REFER TO PLANS FOR PARTITION HIEGHTS.

C9 / A030 TYP. PARTITION HEAD NON RATED
SCALE: 3" = 1'-0"



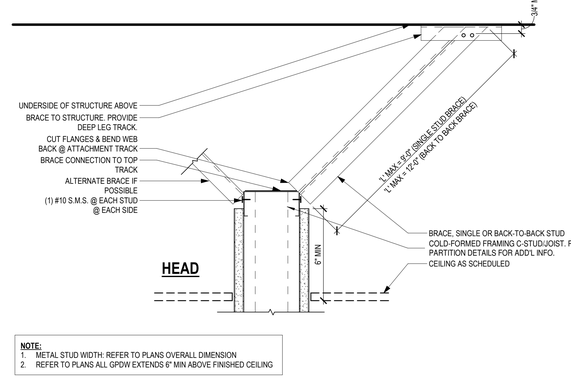
NOTE:
1. METAL STUD WIDTH: REFER TO PLANS OVERALL DIMENSION
2. REFER TO PLANS ALL WALL BD EXTENDS 6" MIN ABOVE FINISHED CEILING
3. REFER TO PLANS FOR EXTENT WALL PARTITION HIEGHT.

C7 / A030 TYP. PARTITION HEAD NON RATED (SEISMIC)
SCALE: 3" = 1'-0"



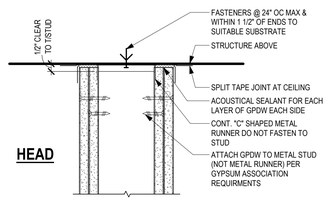
NOTE:
1. METAL STUD WIDTH: REFER TO PLANS OVERALL DIMENSION
2. REFER TO PLANS ALL WALL BD EXTENDS 6" MIN ABOVE FINISHED CEILING
3. REFER TO PLANS FOR EXTENT WALL PARTITION HIEGHT.

C5 / A030 TYP. PARTITION HEAD NON RATED (HARD-LID)
SCALE: 3" = 1'-0"



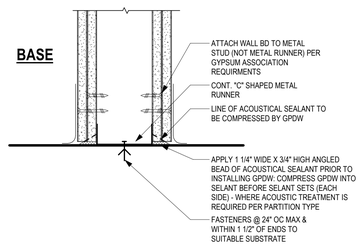
NOTE:
1. METAL STUD WIDTH: REFER TO PLANS OVERALL DIMENSION
2. REFER TO PLANS ALL GPDW EXTENDS 6" MIN ABOVE FINISHED CEILING

C3 / A030 ALT. PARTITION HEAD NON RATED (SEISMIC)
SCALE: 3" = 1'-0"



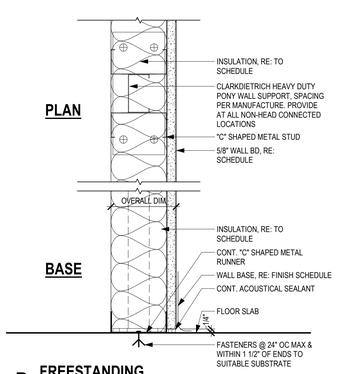
NOTE:
FILL ALL VOIDS IN FIRE RATED PARTITIONS BETWEEN TOP OF PARTITION & STRUCTURE ABOVE W/ CONT. FIRE SAFING AND SEALANT PER U.L. APPROVED DETAIL TO MATCH RATING OF PARTITION

A9 / A030 TYP. PARTITION HEAD ACOUSTIC
SCALE: 3" = 1'-0"



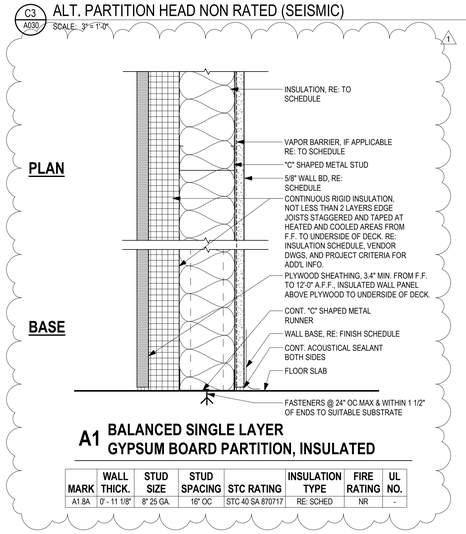
NOTE:
ACOUSTIC SEALANT TO BE FIRE RATED AT ALL RATED WALLS

A7 / A030 TYP. PARTITION BASE ACOUSTIC
SCALE: 3" = 1'-0"



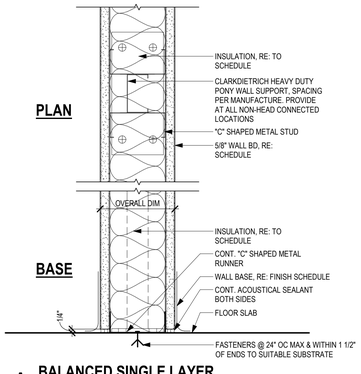
B FREESTANDING GYPSUM BOARD PARTITION

MARK	WALL THICK.	STUD SIZE	STUD SPACING	STC RATING	INSULATION TYPE	FIRE RATING	UL NO.
B.6	0' - 6 5/8"	6" 25 GA	24" OC		RE: SCHED	NR	



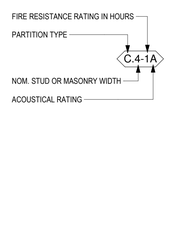
A1 BALANCED SINGLE LAYER GYPSUM BOARD PARTITION, INSULATED

MARK	WALL THICK.	STUD SIZE	STUD SPACING	STC RATING	INSULATION TYPE	FIRE RATING	UL NO.
A1.8A	0' - 11 1/8"	8" 25 GA	16" OC	STC 40 SA 870717	RE: SCHED	NR	-



A BALANCED SINGLE LAYER GYPSUM BOARD PARTITION

MARK	WALL THICK.	STUD SIZE	STUD SPACING	STC RATING	INSULATION TYPE	FIRE RATING	UL NO.
A1.8A	0' - 11 1/8"	8" 25 GA	16" OC	STC 40 SA 870717	RE: SCHED	NR	-
A.4	0' - 4 7/8"	3-5/8" 25 GA	16" OC	-	RE: SCHED	NR	-
A.6	0' - 7 1/4"	6" 25 GA	16" OC	-		NR	-



CROWN ENTERPRISES LLC

STATE OF GEORGIA
JON TALTY
CERTIFICATE NO. RA 017098
REGISTERED ARCHITECT

NO.	ISSUED FOR:	DATE
1	PERMIT	06/27/2025
	BID	08/04/2023

OKW Architects

OKW Architects
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CROWN MORELAND AVENUE MAINTENANCE SHOP

2750 MORELAND AVENUE
ATLANTA, GEORGIA

PARTITION TYPES

DRAWN BY: BD CHECKED: NS

DATE: 01/03/2024

SHEET NO.: A030

PROJ. NO.: 22129

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DOOR HARDWARE SCHEDULE

HARDWARE SET	NAME	DESCRIPTION	HINGE	EXIT DEVICE	PUSH & PULL	LOCKS & LATCHES	CYLINDER CORE	CLOSER	KICKPLATE	STOP	SILENCER	RAINDRIP	GASKET	SWEEP	THRESHOLD
DH-E.01.1	EXTERIOR ALUM SGL - ENTRY	KEY/CLASSROOM LATCH OUTSIDE - PANIC INSIDE	PEMKO_FM_FULL MORTISE HINGE	YALE_6100 SERIES	N/A	YALE_626F CLASSROOM CYLINDER	YALE_1109_STANDARD FIXED CORE_6 PINS	YALE_1100 SERIES	N/A	ROCKWOOD_OH105H	N/A	N/A	N/A	PEMKO_3452_NB BRUSH SEAL	PEMKO_2009_LATCHING PANIC SADDLE
DH-E.01.2	EXTERIOR ALUM DBL - ENTRY	KEY/CLASSROOM LATCH OUTSIDE - PANIC INSIDE	PEMKO_FM_FULL MORTISE HINGE, QTY (2)	YALE_6170 SERIES, QTY (2)	N/A	YALE_626F CLASSROOM CYLINDER	YALE_1109_STANDARD FIXED CORE_6 PINS	YALE_1100 SERIES, QTY (2)	N/A	ROCKWOOD_OH105H, QTY (2)	N/A	N/A	N/A	PEMKO_3452_NB BRUSH SEAL, QTY (2)	PEMKO_2009_LATCHING PANIC SADDLE
DH-E.02.1	EXTERIOR HM SGL - ENTRY & EXIT	KEY/CLASSROOM LATCH OUTSIDE - PANIC INSIDE	PEMKO_FM_FULL MORTISE HINGE	YALE_6100 SERIES	N/A	YALE_513F CLASSROOM CYLINDER	YALE_1109_STANDARD FIXED CORE_6 PINS	YALE_1100 SERIES	ROCKWOOD_K1125	N/A	ROCKWOOD_609	PEMKO_346_DOOR TOP WEATHERSTRIP	PEMKO_S88 GASKETING	PEMKO_3452_NB BRUSH SEAL	PEMKO_2009_LATCHING PANIC SADDLE
DH-E.03.1	EXTERIOR HM SGL - EXIT ONLY	KEY/NIGHT LATCH OUTSIDE - PANIC INSIDE	PEMKO_FM_FULL MORTISE HINGE	YALE_6100 SERIES	N/A	YALE_632F NIGHTLATCH CYLINDER	YALE_1109_STANDARD FIXED CORE_6 PINS	YALE_1100 SERIES	ROCKWOOD_K1125	N/A	ROCKWOOD_609	PEMKO_346_DOOR TOP WEATHERSTRIP	PEMKO_S88 GASKETING	PEMKO_3452_NB BRUSH SEAL	PEMKO_2009_LATCHING PANIC SADDLE
DH-I.01.1	INTERIOR ALUM SGL - PASSAGE	PASSAGE D PULL OUTSIDE - PASSAGE BAR INSIDE	PEMKO_FM_FULL MORTISE HINGE	N/A	ROCKWOOD_T11047	N/A	N/A	YALE_1100 SERIES	N/A	N/A	N/A	N/A	N/A	N/A	N/A
DH-I.01.2	INTERIOR ALUM SGL - PASSAGE @ TILE	PASSAGE D PULL OUTSIDE - PASSAGE BAR INSIDE	PEMKO_FM_FULL MORTISE HINGE	N/A	ROCKWOOD_T11047	N/A	N/A	YALE_1100 SERIES	N/A	N/A	N/A	N/A	N/A	N/A	PEMKO_1951_WHEELCHAIR CARPET TRANSITION
DH-I.02.1	INTERIOR ALUM SGL - OFFICE	KEY/LEVER OUTSIDE - PASSAGE/LEVER INSIDE	PEMKO_FM_FULL MORTISE HINGE	N/A	ROCKWOOD_47-PB	ADAMS RITE_4510_DEADLATCH, WITH 4569 HANDLE	ADAMS RITE_4036	YALE_1100 SERIES	N/A	ROCKWOOD_400_WALL STOP	N/A	N/A	N/A	N/A	N/A
DH-I.03.1	INTERIOR HM SGL - PUBLIC TOILET ENTRY	PASSAGE OUTSIDE - PASSAGE INSIDE	MCKINNEY_TA2314, QTY (3)	N/A	ROCKWOOD_70A & ROCKWOOD_BF 159	YALE_5401LN	N/A	YALE_1100 SERIES	ROCKWOOD_K1125	ROCKWOOD_400_WALL STOP	ROCKWOOD_609	N/A	N/A	N/A	N/A
DH-I.03.2	INTERIOR HM SGL - SINGLE OCCUPANT TOILET ENTRY	PASSAGE OUTSIDE - BUTTON INSIDE	MCKINNEY_TA2314, QTY (3)	N/A	N/A	YALE_YPL02	N/A	YALE_1100 SERIES	ROCKWOOD_K1125	ROCKWOOD_400_WALL STOP	ROCKWOOD_609	N/A	N/A	N/A	N/A
DH-I.04.1	INTERIOR HM SGL - UTILITY/JANITOR/IT	KEY OUTSIDE - PASSAGE INSIDE	MCKINNEY_TA2314, QTY (3)	N/A	N/A	YALE_5405LN	YALE_1210	YALE_1100 SERIES	ROCKWOOD_K1125	ROCKWOOD_400_WALL STOP	ROCKWOOD_609	N/A	N/A	N/A	N/A
DH-I.04.2	INTERIOR HM DBL - UTILITY/JANITOR/IT	KEY OUTSIDE - PASSAGE INSIDE	MCKINNEY_TA2314, QTY (6)	N/A	N/A	YALE_5405LN ACTIVE; AAA405 FLUSH BOLT INACTIVE	YALE_1210	YALE_1100 SERIES, QTY (2)	ROCKWOOD_K1125, QTY (2)	ROCKWOOD_400_WALL STOP, QTY (2)	ROCKWOOD_609	N/A	N/A	N/A	N/A
DH-I.05.1	INTERIOR HM SGL - TOILET STALL	EM OUTSIDE - BUTTON INSIDE	MCKINNEY_TA2314, QTY (3)	N/A	N/A	YALE_YPL02	N/A	N/A	N/A	ROCKWOOD_400_WALL STOP	ROCKWOOD_609	N/A	N/A	N/A	N/A
DH-I.06.1	INTERIOR HM SGL - RESTRICTED ACCESS	KEY/NIGHT LATCH OUTSIDE - PANIC INSIDE	PEMKO_FM_FULL MORTISE HINGE	YALE_6100 SERIES	N/A	YALE_632F NIGHTLATCH CYLINDER	YALE_1109_STANDARD FIXED CORE_6 PINS	YALE_1100 SERIES	ROCKWOOD_K1125	N/A	ROCKWOOD_609	N/A	PEMKO_S88 GASKETING	N/A	N/A

DOOR SCHEDULE

DOOR NO.	LOCATION	FIRE RATING	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR TYPE ELEVATION	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	FRAME HEAD	FRAME JAMB	FRAME SILL	HARDWARE SET	REMARKS
100A	CORRIDOR	-	3' - 0"	7' - 0"	0' - 1 3/4"	F-GL	ALUM/GLASS	PREFIN	ALUM	PREFIN	D6/A051 OR D7/A051	B6/A051 OR B7/A051	A6/A051 OR A7/A051 OR F7/A051	DH-E.01.1	
100B	CORRIDOR	-	3' - 0"	7' - 0"	0' - 1 3/4"	F-HMG	HM/GLASS	PAINT	HM	PAINT	E2/A040 OR E4/A040 OR D9/A051	D2/A040 OR D4/A040 OR B9/A051	B2/A040 OR B4/A040 OR A9/A051	DH-I.01.1	
101A	WOMEN'S RESTROOM	-	3' - 0"	7' - 0"	0' - 1 3/4"	F-HM	HM	PAINT	HM	PAINT	E2/A040 OR E4/A040 OR D9/A051	D2/A040 OR D4/A040 OR B9/A051	B2/A040 OR B4/A040 OR A9/A051	DH-I.03.1	
101B	WOMEN'S RESTROOM	-	2' - 8"	7' - 0"	0' - 1 3/4"	S-SC	SC-WD	PAINT	MTL	PAINT	-	B9/A051	-	DH-I.05.1	66" OVERALL DOOR LEAF HEIGHT
101C	WOMEN'S RESTROOM	-	3' - 0"	7' - 0"	0' - 1 3/4"	S-SC	SC-WD	PAINT	MTL	PAINT	-	B9/A051	-	DH-I.05.1	66" OVERALL DOOR LEAF HEIGHT
102A	MEN'S RESTROOM	-	3' - 0"	7' - 0"	0' - 1 3/4"	F-HM	HM	PAINT	HM	PAINT	E2/A040 OR E4/A040 OR D9/A051	D2/A040 OR D4/A040 OR B9/A051	B2/A040 OR B4/A040 OR A9/A051	DH-I.03.1	
102B	MEN'S RESTROOM	-	3' - 0"	7' - 0"	0' - 1 3/4"	S-SC	SC-WD	PAINT	MTL	PAINT	-	B9/A051	-	DH-I.05.1	66" OVERALL DOOR LEAF HEIGHT
104A	SHOP	-	3' - 0"	7' - 0"	0' - 1 3/4"	F-HM	HM	PAINT	HM	PAINT	E2/A040 OR E4/A040 OR D9/A051	D2/A040 OR D4/A040 OR B9/A051	B2/A040 OR B4/A040 OR A9/A051	DH-E.02.1	
104B	SHOP	-	3' - 0"	7' - 0"	0' - 1 3/4"	F-HM	HM	PAINT	HM	PAINT	E2/A040 OR E4/A040 OR D9/A051	D2/A040 OR D4/A040 OR B9/A051	B2/A040 OR B4/A040 OR A9/A051	DH-E.02.1	
105A	FLOOR STORAGE	-	3' - 0"	7' - 0"	0' - 1 3/4"	F-HM	HM	PAINT	HM	PAINT	E2/A040 OR E4/A040 OR D9/A051	D2/A040 OR D4/A040 OR B9/A051	B2/A040 OR B4/A040 OR A9/A051	DH-E.03.1	
106	FIRE RISER	-	3' - 0"	7' - 0"	0' - 1 3/4"	F-HM	HM	PAINT	HM	PAINT	E2/A040 OR E4/A040 OR D9/A051	D2/A040 OR D4/A040 OR B9/A051	B2/A040 OR B4/A040 OR A9/A051	DH-E.03.1	
200	CORRIDOR	-	3' - 0"	7' - 0"	0' - 1 3/4"	F-HMG	HM/GLASS	PAINT	HM	PAINT	E2/A040 OR E4/A040 OR D9/A051	D2/A040 OR D4/A040 OR B9/A051	B2/A040 OR B4/A040 OR A9/A051	DH-I.01.1	
201	OFFICE	-	3' - 0"	7' - 0"	0' - 1 3/4"	F-GL	ALUM/GLASS	PREFIN	ALUM	PREFIN	D6/A051 OR D7/A051	B6/A051 OR B7/A051	A6/A051 OR A7/A051 OR F7/A051	DH-I.02.1	
202	OFFICE	-	3' - 0"	7' - 0"	0' - 1 3/4"	F-GL	ALUM/GLASS	PREFIN	ALUM	PREFIN	D6/A051 OR D7/A051	B6/A051 OR B7/A051	A6/A051 OR A7/A051 OR F7/A051	DH-I.02.1	
203	BREAK ROOM	-	3' - 0"	7' - 0"	0' - 1 3/4"	F-HMG	HM/GLASS	PAINT	HM	PAINT	E2/A040 OR E4/A040 OR D9/A051	D2/A040 OR D4/A040 OR B9/A051	B2/A040 OR B4/A040 OR A9/A051	DH-I.01.1	

EMERGENCY DOOR NOTES

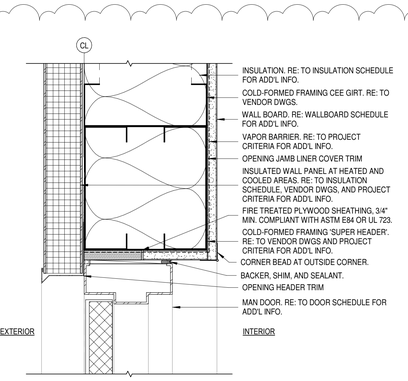
1. ALL EXIT DOORS SHALL BE PROPERLY NUMBERED (4 INCH NUMBERS) INSIDE AND OUTSIDE FOR PROPER IDENTIFICATION DURING AN EMERGENCY. ALL INTERIOR DOORS SHALL BE LABELED TO IDENTIFY THE USE OF THE ROOM OR AREA.
2. THE DOOR(S) LEADING INTO THE FIRE PROTECTION EQUIPMENT ROOM SHALL BE LABELED "FIRE PROTECTION".
3. THE DOOR(S) LEADING INTO THE ELECTRICAL EQUIPMENT ROOM SHALL BE LABELED "ELECTRICAL".
4. THE DOOR(S) LEADING INTO THE FIRE ALARM CONTROL PANEL ROOM SHALL BE LABELED "FIRE ALARM CONTROL PANEL".

GENERAL DOOR NOTES

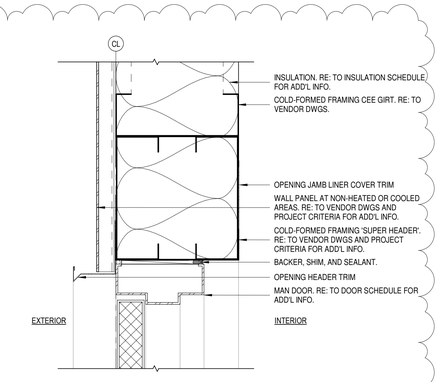
1. DOOR HARDWARE: HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE (1) HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. THUMB-TURN DEADBOLTS ARE NOT ALLOWED. FLUSH BOLTS ON DOUBLE DOORS ARE NOT ALLOWED UNLESS AUTOMATIC. LEVER OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. WHEN SLIDING DOORS ARE FULLY OPEN, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES. HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" ABOVE FINISHED FLOOR.
2. LOCKING HARDWARE: EXIT DOOR LOCKING HARDWARE MUST BE READILY OPERABLE FROM THE EGRESS SIDE WITHOUT THE USE OF KEYS OR SPECIAL KNOWLEDGE OR EFFORT.
3. DETECTABLE WARNING HARDWARE: DOORS THAT LEAD TO AREAS THAT MIGHT PROVE DANGEROUS TO A PERSON WHO IS VISUALLY IMPAIRED SHALL BE MADE IDENTIFIABLE TO THE TOUCH BY A TEXTURED SURFACE ON THE DOOR HANDLE, KNOB, PULL, OR OTHER OPERATING HARDWARE. THE SURFACE MAY BE KNURLED OR ROUGHENED TO THE CONTACT SURFACE.
4. DOOR CLOSERS: THE SWEEP PERIOD OF ALL CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" (75 MM) FROM THE LATCH, MEASURED TO THE LEADING EDGE OF THE DOOR.
5. THRESHOLDS AT DOORWAYS: THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 3/4" (19 MM) IN HEIGHT FOR EXTERIOR SLIDING DOORS OR 1/2" (13 MM) FOR OTHER TYPES OF DOORS. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES AT ACCESSIBLE DOORWAYS SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.
6. DOOR OPENING FORCE: THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN A DOOR SHALL BE AS FOLLOWS:
   A. FIRE DOORS: BY AUTHORITY HAVING JURISDICTION.
   B. EXTERIOR HINGED DOORS: 8.5 LBF (37.8 N)
   C. INTERIOR HINGED DOORS: 5.0 LBF (22.2 N)
7. FIRE DOORS: SHALL BE AN APPROVED ASSEMBLY TO INCLUDE FIRE RATED DOOR, FRAME, SELF CLOSER, LATCH, AND HARDWARE.
8. RATED DOOR: SHALL BE LEFT CLOSING AND LATCHING.
9. GLAZED DOORS: DOORS HAVING FIXED PANELS OF GLAZING IN EXCESS OF 9 SF (0.84 SM) AND HAVING THE LOWEST EDGE LESS THAN 18" (457 MM) ABOVE THE FINISHED FLOOR LEVEL OR HAVING A WALKING SURFACE WITHIN 36" OF SUCH GLAZING SHALL HAVE SAFETY GLAZING. IN LIEU OF SAFETY GLAZING, SUCH GLAZED PANELS SHALL BE PROTECTED WITH A HORIZONTAL VISUAL MEMBER NOT LESS THAN 1 1/2" WIDE WHEN LOCATED BETWEEN 24" (610 MM) AND 36" (914 MM) ABOVE THE WALKING SURFACE. SAFETY GLAZING SHALL MEET ALL "HUMAN IMPACT LOADS" AND CONFORM TO THE REQUIREMENTS OF CPSC 16 CFR, PART 1201, LISTED IN APPENDIX "A" OF THE BOCA NATIONAL BUILDING CODE 1990.
10. DOOR ASSEMBLY JOINTS: ALL JOINTS TO BE SEALED (TYPICAL).
11. HARDWARE SPECIFICATIONS: VERIFY ALL HARDWARE MAKE, MODEL, STYLE, AND FINISH WITH OWNER.
12. ALL DOOR HOLLOW METAL FRAMES TO BE FULLY WELDED.
13. ALL DOOR FRAMES TO HAVE SILENCERS.
14. ALL DOORS TO BE INSTALLED W/O THE HOLD OPEN FEATURE
15. DOOR SURFACE WITHIN TEN INCHES (10") OF THE FLOOR OR GROUND MEASURED VERTICALLY TO BE A SMOOTH SURFACE ON THE PUSH SIDE, EXTENDING THE FULL WIDTH OF THE DOOR. PARTS CREATING HORIZONTAL OR VERTICAL JOINTS IN SUCH SURFACE SHALL BE WITHIN ONE SIXTEENTH OF AN INCH (1/16") OF THE SAME PLANE AS THE OTHER. CAVITIES CREATED BY ADDED KICK PLATES SHALL BE CAPPED.
16. DOOR THRESHOLDS SHALL COMPLY WITH REQUIREMENTS FOR ACCESSIBLE CHANGES IN LEVEL.
17. DOOR OPERATING HARDWARE SHALL BE MOUNTED AT HEIGHT PER ACCESSIBILITY REQUIREMENTS.
18. DOOR SIGNAGE PER SCHEDULE TO BE PROVIDED BY HARDWARE SUPPLIER INSTALLED BY GENERAL CONTRACTOR. ROCKWOOD BF686 SERIES. BACKGROUND COLOR = BLACK 101; BORDER, LETTERING & BRAILLE = WHITE 949.
19. CLOSERS TO BE INSTALLED INTERIOR SIDE OF ROOMS.
20. KICKPLATES TO BE INSTALLED ON PUSH SIDE ONLY UNLESS NOTED OTHERWISE.

OVERHEAD DOOR SCHEDULE

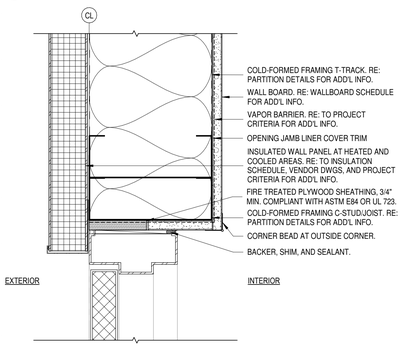
DOOR NO. / TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	FRAME HEAD	FRAME JAMB	FRAME SILL	REMARKS
OD1	10'-0"	10'-0"	0' - 2"	24-GA GALV STEEL	FACTORY WHITE	12-GA GALV STEEL	N/A	-	-	-	4:1 CHAIN HOIST AND TOP/SIDE DRAFT STOP
OD2	10'-0"	12'-0"	0' - 2"	24-GA GALV STEEL	FACTORY WHITE	12-GA GALV STEEL	N/A	-	-	-	PUSH BUTTON ELECTRIC OPERATOR AND TOP/SIDE DRAFT STOP
OD3	10'-0"	12'-0"	0' - 2"	24-GA GALV STEEL	FACTORY WHITE	12-GA GALV STEEL	N/A	-	-	-	PUSH BUTTON ELECTRIC OPERATOR AND VISION PANELS
OD4	14'-0"	16'-0"	0' - 2"	24-GA GALV STEEL	FACTORY WHITE	12-GA GALV STEEL	N/A	A9/A800	B9/A800		PUSH BUTTON ELECTRIC OPERATOR AND VISION PANELS



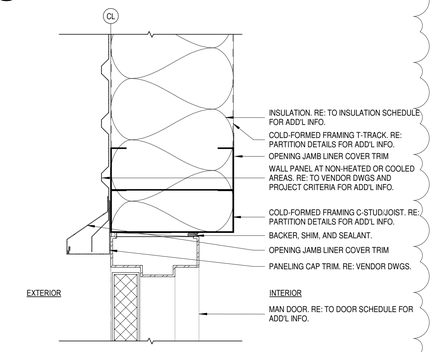
E4 / A040 EXT. HM DOOR @ HEAD - INSULATED
SCALE: 3" = 1'-0"



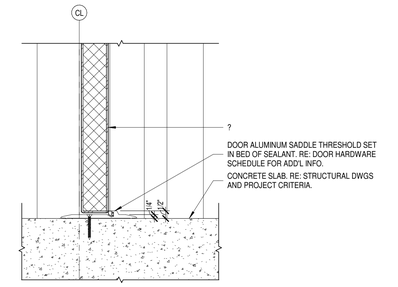
E2 / A040 EXT. HM DOOR @ HEAD - NON-THERMALLY-INSULATED AREA
SCALE: 3" = 1'-0"



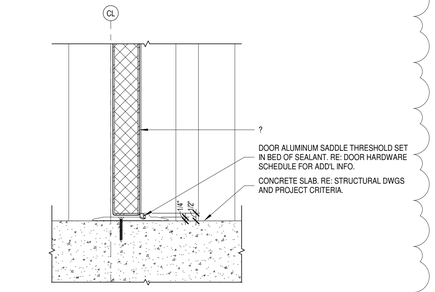
D4 / A040 EXT. HM DOOR @ JAMB - INSULATED
SCALE: 3" = 1'-0"



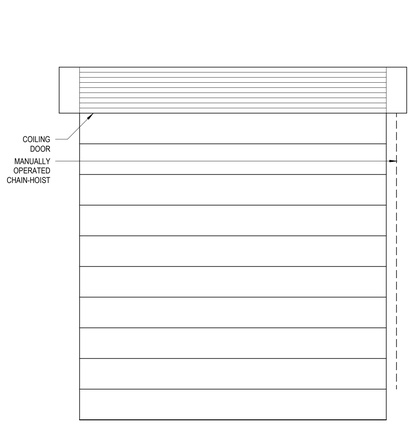
D2 / A040 EXT. HM DOOR @ JAMB - NON-THERMALLY-INSULATED AREA
SCALE: 3" = 1'-0"



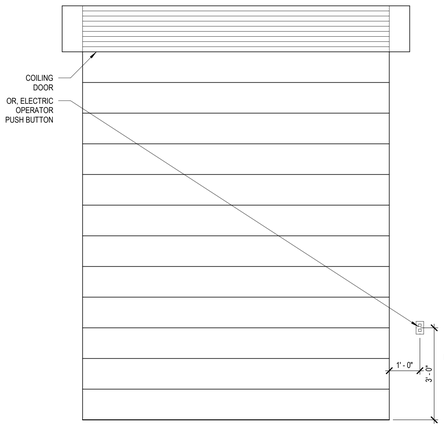
B4 / A040 EXT. HM DOOR @ SILL - INSULATED
SCALE: 3" = 1'-0"



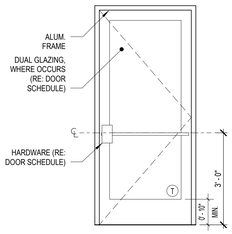
B2 / A040 EXT. HM DOOR @ SILL - NON-THERMALLY INSULATED AREA
SCALE: 3" = 1'-0"



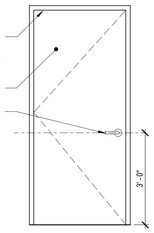
TYPE OD-1
STANDARD OVERHEAD DOOR, UNINSULATED, TOP/SIDE DRAFT STOP, 4:1 CHAIN HOIST OPERATOR HOIST



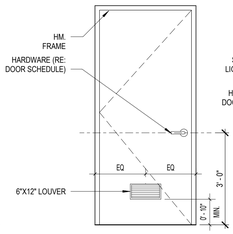
TYPE OD-2
TYPE OD-3
TYPE OD-4
SECONDARY OVERHEAD DOOR, UNINSULATED, TOP/SIDE DRAFT STOP, ELECTRIC PUSH BUTTON OPERATOR



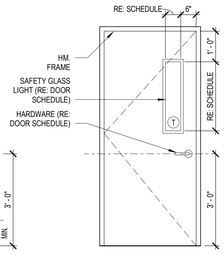
TYPE F-GL
STOREFRONT DOOR
FULL LITE
WIDE STILE
RE: STOREFRONT ELEVATIONS



TYPE F-HM
TYPE F-HMR
EXTERIOR HOLLOW METAL DOOR
FLUSH, WHEATHER STRIPPED, THERMAL BROKEN, FULLY WELDED FRAME



TYPE F-HML
INTERIOR HOLLOW METAL DOOR
FLUSH, LOUVERED, FULLY WELDED FRAME



TYPE F-HMG
INTERIOR HOLLOW METAL DOOR
FLUSH, SAFETY NARROW LIGHT, FULLY WELDED FRAME

CROWN ENTERPRISES LLC

STATE OF GEORGIA
JON TALTY
CERTIFICATE NO. RA 017698
REGISTERED ARCHITECT

NO.	ISSUED FOR:	DATE
1	PERMIT	06/27/2025
	BID	08/04/2023

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CROWN MORELAND AVENUE MAINTENANCE SHOP

2750 MORELAND AVENUE
ATLANTA, GEORGIA

DOOR/FRAME TYPES, SCHEDULES AND DETAILS

DRAWN BY: BD CHECKED: NS

DATE: 01/03/2024
SHEET NO.: A040
PROJ. NO.: 22129

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STOREFRONT FRAME SCHEDULE

FRAME TYPE	DESCRIPTION	REMARKS
ST-4.5	NON THERMALLY BROKEN	KAWNEER TRIFAB VERSAGLAZE 451, CENTER GLAZED. YKK 45 TU, CENTER GLAZED, OR OWNER APPROVED EQUAL
ST-4.5T	THERMALLY BROKEN	KAWNEER TRIFAB VERSAGLAZE 451T, CENTER GLAZED. YKK 45 TU, CENTER GLAZED, OR OWNER APPROVED EQUAL

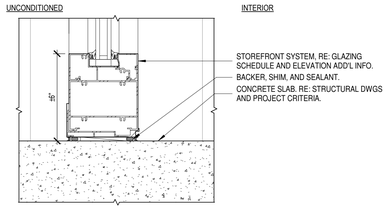
1

GLASS SCHEDULE

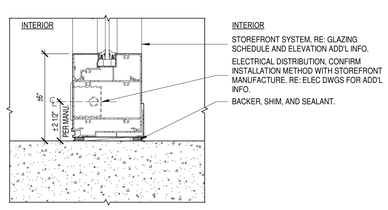
GLASS TYPE	DESCRIPTION	REMARKS
GL-1	INSULATED GLASS - SOLAR EXPOSURE	DOUBLE-GLAZED SPUTTER-COATED INSULATED SPANDREL. OUTBOARD LITE 1/4" THICKNESS, CLEAR FLOAT, SPUTTER-COATED, HEAT STRENGTHED, VITRO SOLAR BAN 60 'SOLARGRAY' ON SURFACE #2. AIR SPACE 1/2" WIDE. INBOARD LITE 1/4" THICKNESS, CLEAR FLOAT. TOTAL UNIT THICKNESS OF 1"
GL-2	INSULATED GLASS - SPANDREL	DOUBLE-GLAZED SPUTTER-COATED INSULATED SPANDREL. OUTBOARD LITE 1/4" THICKNESS, CLEAR FLOAT, SPUTTER-COATED, HEAT STRENGTHED, VITRO SOLAR BAN 60 'SOLARGRAY' ON SURFACE #2. AIR SPACE 1/2" WIDE. INBOARD LITE 1/4" THICKNESS, CLEAR FLOAT, WHITE CERAMIC FRIT AT SURFCASE #4. TOTAL UNIT THICKNESS OF 1"
GL-3	FLOAT GLASS - CLEAR	CLEAR FLOAT GLASS ANNEALED, HEAT STRENGTHED. MINIMUM THICKNESS 1/4"
GL-4	FLOAT GLASS - SAFETY	CLEAR LAMINATED GLASS, TWO LIGHTS OF HEAT STRENGTHENED FLOAT GLASS WITH PLASTIC INTERLAYER. MINIMUM TOTAL THICKNESS 1/4"
GL-5	FLOAT GLASS - SPANDREL	CLEAR MONOLITHIC GLASS SPANDRELS HEAT STRENGTHED WITH WHITE CERAMIC ENAMAL FRIT AT SURFACE #2. MINIMUM TOTAL THICKNESS 1/4"

GLASS LEGEND:

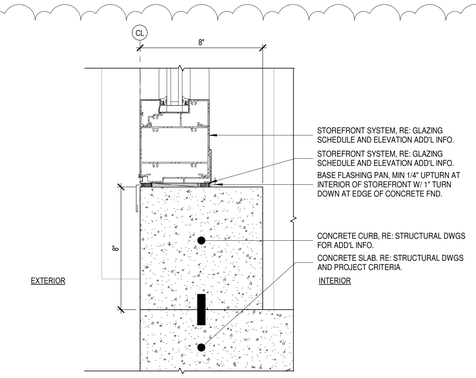
- (T) TEMPERED
- GL-1 INSULATED STANDARD GLASS
- GL-2 INSULATED SPANDREL GLASS
- GL-3 FLOAT STANDARD GLASS
- GL-4 FLOAT SAFETY GLASS
- GL-5 FLOAT SPANDREL GLASS



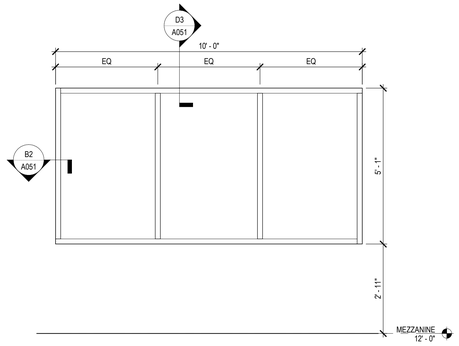
F6 / A050 INS. INT. ALUM @ SILL
SCALE: 3" = 1'-0"



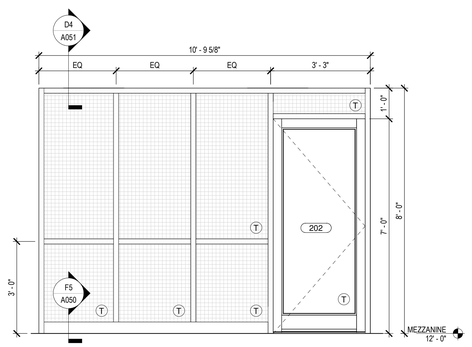
F5 / A050 INT. ALUM @ SILL
SCALE: 3" = 1'-0"



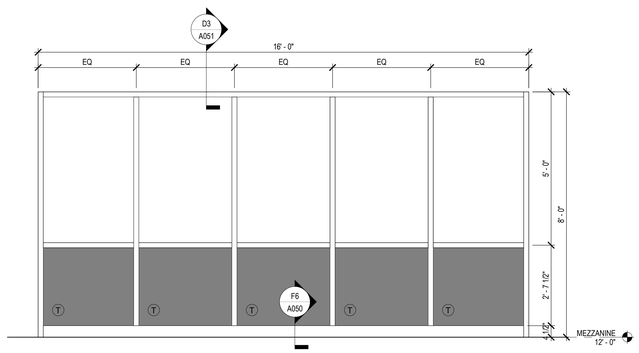
F2 / A050 INS. EXT. ALUM @ SILL
SCALE: 3" = 1'-0"



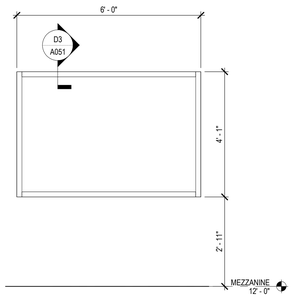
B5 / A050 GLAZING ELEVATION E (ST-4.5T)
SCALE: 1/2" = 1'-0"



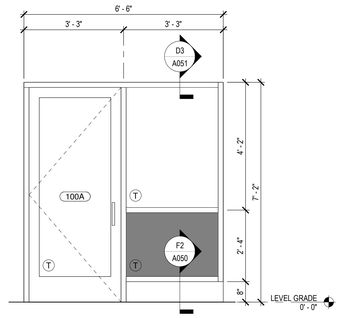
B2 / A050 GLAZING ELEVATION D (ST-4.5)
SCALE: 1/2" = 1'-0"



A7 / A050 GLAZING ELEVATION C (ST-4.5T)
SCALE: 1/2" = 1'-0"



A5 / A050 GLAZING ELEVATION B (ST-4.5T)
SCALE: 1/2" = 1'-0"



A2 / A050 GLAZING ELEVATION A (ST-4.5T)
SCALE: 1/2" = 1'-0"

CROWN ENTERPRISES LLC

STATE OF GEORGIA
JON TALTY
CERTIFICATE NO. RA 017098
REGISTERED ARCHITECT

NO.:	ISSUED FOR:	DATE
1	PERMIT	06/27/2025
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ATLANTA, GEORGIA

WINDOW TYPES AND GLAZING SCHEDULE

DRAWN BY: BD CHECKED: NS

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