

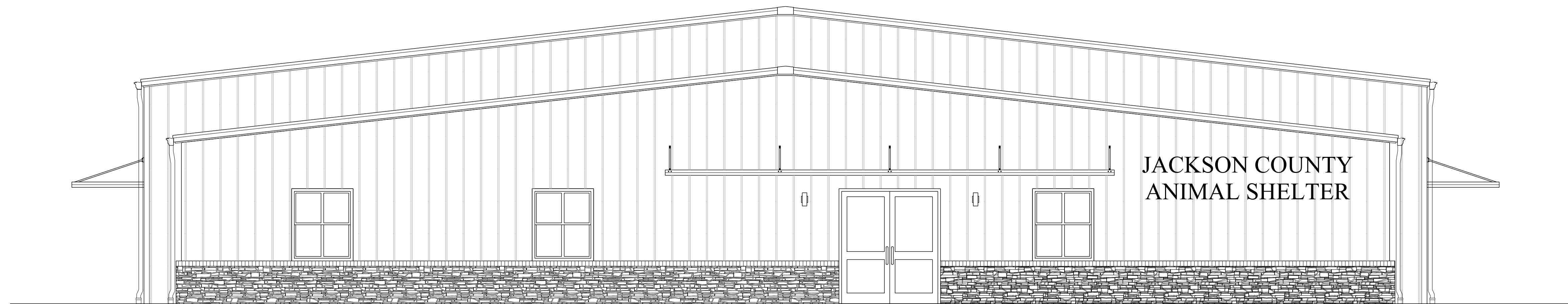
JACKSON COUNTY ANIMAL SHELTER

JEFFERSON, GEORGIA

PHASE 2 - BID SET JULY 17, 2023



JACKSON COUNTY ANIMAL SHELTER
29 GALILEE CHURCH ROAD,
JEFFERSON, GA 30549



SHEET LIST

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PROJECT NOTES:

- NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH AFFECTED WORK.
- COORDINATE ALL WORK WITH ARCHITECTURAL AND MECHANICAL, ELECTRICAL, PLUMBING, STRUCTURAL, CIVIL, AND ALL DISCIPLINES.
- STAGING AREA AND CONSTRUCTION ENTRANCE TO BE APPROVED BY OWNER PRIOR TO BEGINNING WORK.
- ALL WORK TO CONFORM TO ALL LOCAL CODES AND ORDINANCES AS WELL AS SBCCI AND LIFE SAFETY CODE.
- CONTRACTOR TO PROVIDE ALL UTILITY LINES TO STREET AND ALL UTILITY CONNECTIONS AS REQUIRED FOR COMPLETE OPERATION.
- CONTRACTOR TO PROVIDE ALL SOIL AND EROSION CONTROL DURING CONSTRUCTION WORK. SOIL AND EROSION CONTROL TO BE IN ACCORDANCE WITH THE GEORGIA MANUAL FOR EROSION AND SEDIMENT CONTROL.
- CONTRACTOR TO PROVIDE SOIL POISONING PRIOR TO PLACEMENT OF ANY CONCRETE.
- SEE PROJECT MANUAL AND SPECIFICATIONS FOR ALL PRODUCT INFORMATION.
- ALL REQUIRED TESTING TO BE BY THE GENERAL CONTRACTOR INCLUDING STRUCTURAL, SOIL COMPACTION, ETC.
- ALL CORRESPONDENCE DURING BIDDING AND CONSTRUCTION TO BE IN WRITING - DIRECT ALL QUESTIONS TO ARCHITECT'S OFFICE.
- ALL POURED CONCRETE FOUNDATIONS SHALL HAVE 4" G.A.B.C. AND 6MM POLYETHYLENE VAPOR BARRIER.

PROJECT NOTES:

ABBREVIATIONS					
A.C.T.	ACROUSTICAL CEILING TILE	FTL	FRESH	PT	PAINTED
A.F.F.	ARMA FRESH FLOOR	FFL	CONCRETE FOOTING	FRG	FRAMES
ALUM	ALUMINUM	FRP	FIBERGLASS REINFORCED PANEL	REC	RECESSED
BR	BRAND	GALV	GALVANIZED	SCHED	SCHEDULE
C.J.	CENTRAL JOINT	GRP	GRIPUP	SPEC. SPEC.	SPECIFICATION MANUAL
C.L.	CENTRAL LINE	H.C.	HANDCAP	ST	STEEL
CMS	CONCRETE MASONRY UNIT	H.M.	HOLLOW METAL	TYP.	TYPICAL CONDITION
COL	COLLUM	HPDC	HYPERTENSILE	VERT.	VERTICAL
CONC	CONCRETE	HT	HIGHT	WT	WITH
CONT	CONTIGUOUS	INSUL	INSULATION		
COOR	COORDINATE	JAN	JANITOR		
CS	CORROSION RESISTANT	JT, JTS	JUNT, JENTS		
DAL DAM	DRAINAGE	LAM	LAMINATE		
D.S.	DOWNSPOUT	LB	POUND		
E.J.	EXPANSION JOINT	MBL	MASONRY		
ELEC.	ELECTRICAL	MED	MEDICAL		
EQUIP	EQUIPMENT	MTL	METAL		
E.W.	EACH WAY	O.C.	ON CENTER		
F.D.	FLOOR DRAB	O.V.	OVERHEAD		
F.F.	FIRE EXTINGUISHER & CABINET	PL	PLUMB		

Jul 17 2023 | T:\SHARED CAD Projects\2023 Jackson County Animal Shelter Phase 2\Sheet T-100 COVER SHEET.dwg

REVISIONS					
Number	Date	Remarks	Number	Date	Remarks
1	05.05.21	UPDATED ROOM FINISH SCHEDULE AND WALL TYPES			

CONSULTANTS					

CARTER WATKINS ASSOCIATES ARCHITECTS, INC.
POST OFFICE BOX 1064
137 EAST WASHINGTON STREET
MONROE, GEORGIA 30655
Fax: 770.267.1064
email@carterwatkins.com www.carterwatkins.com

SEAL
BENJAMIN WATKINS
REGISTERED ARCHITECT

JACKSON COUNTY ANIMAL SHELTER
JEFFERSON, GEORGIA

SHEET TITLE:
COVER SHEET T-100 COVER SHEET
PRINTED:

NUMBER:
T-100

JACKSON CO. ANIMAL SHELTER PRINTED DATE: 07/17/23

BUILDING CODE REVIEW - Jackson County Animal Shelter - Jefferson, Georgia
 Building Information - Existing single-story, Type VB, unprotected, un-sprinklered (wood) construction with new front and rear additions.
ANIMAL SHELTER
 Physical Aspects - Existing 11,200 square feet, front addition 1,824 square feet, rear addition 4,640 square feet. **TOTAL SQUARE FOOTAGE: 17,664 S.F.**
1,824 S.F. BUSINESS
15,840 S.F. STORAGE (domestic).

Current Mandatory Codes as Adopted by DCA:

- International Building Code, 2018 Edition, with Georgia Amendments (2022)
- International Residential Code, 2018 Edition, with Georgia Amendments (2022)
- International Fire Code, 2018 Edition (Current State Fire Marshal Edition)
- International Plumbing Code, 2018 Edition, with Georgia Amendments (2022)
- International Mechanical Code, 2018 Edition, with Georgia Amendments (2022)
- International Energy Conservation Code, 2018 Edition, with Georgia Amendments (2022)
- International Electrical Code, 2017 Edition (No Change Incorporated)
- International Energy Conservation Code, 2018 Edition, with Georgia Supplements and Amendments (2022)
- 2018 Life Safety Code, Fire Information and graphics regarding fire life safety code (NFPA 101), IFC Storage Amendments or the Georgia Accessibility Code (Georgia Code Title 20, Chapter 2700)
- Life Safety Code (NFPA 101) 2018 Edition and the Georgia State Fire Marshal's Office
- Jackson County Codes & Ordinances

INTERNATIONAL BUILDING CODE REVIEW - CONSTRUCTION TYPES

Part 5.0 Occupancy, use-groups and environmental rated structure, walls, exterior walls, wood stud interior walls and metal roof.

Building is considered BUSINESS occupancy per Section 304.1

7004 Allowable Height - Type VB - all story height limitation

7004.4 Storage Areas - Occup. Type - 2 stories

7004.2 Allowable Area Factor - 0.000 s.f.

506.2.2 Allowable Area Amount of increase calculation - 3000 Gross headroom base load = 0.003 30250 x 1 + 0.2001 = 70 sq ft allowable increase of 7000 total ft-sq-ft increase. Therefore, the allowable total area is 3000 + 70 = 3070 s.f.

*** allowed square footage exceeds allowable and full rear addition is required by a 2-hour fire wall which allows it to be treated as a separate structure and the 2-hour fire wall provides a horizontal exit.

LIFE SAFETY CODE REVIEW - NFPA 101, 2018 EDITION

BUSINESS OCCUPANCY ANALYSIS NFPA CHAPTER 10:

Occupant Load 77.3.1.2 - 17,664 s.f.

1.824 s.f. Business = 19 Occupants at 100 s.f. per person

15,840 s.f. Storage = 59 Occupants at 269 s.f. per person

NOTE: OCCUPANT LOAD BY OCCUPANTS

Means of Egress:

Egress Width Capacity Requirements - 710.2.3.2 - 79 Occupants x 22 = 1734" clear required. 187" clear provided in all areas of building. Use with provided exit door minimum separation.

NOTE: Occupant load is 38.2.4.

Provide Emergency Lighting and Exit Signs per 38.2.9.10 and 7.10.

Exit Signs:

38.2.2.2 Exit signs shall be separated by 1-hour rated walls and ceiling protection.

Interior Finish to be Class A or Class B.

Detention, Alarm, and Communication System:

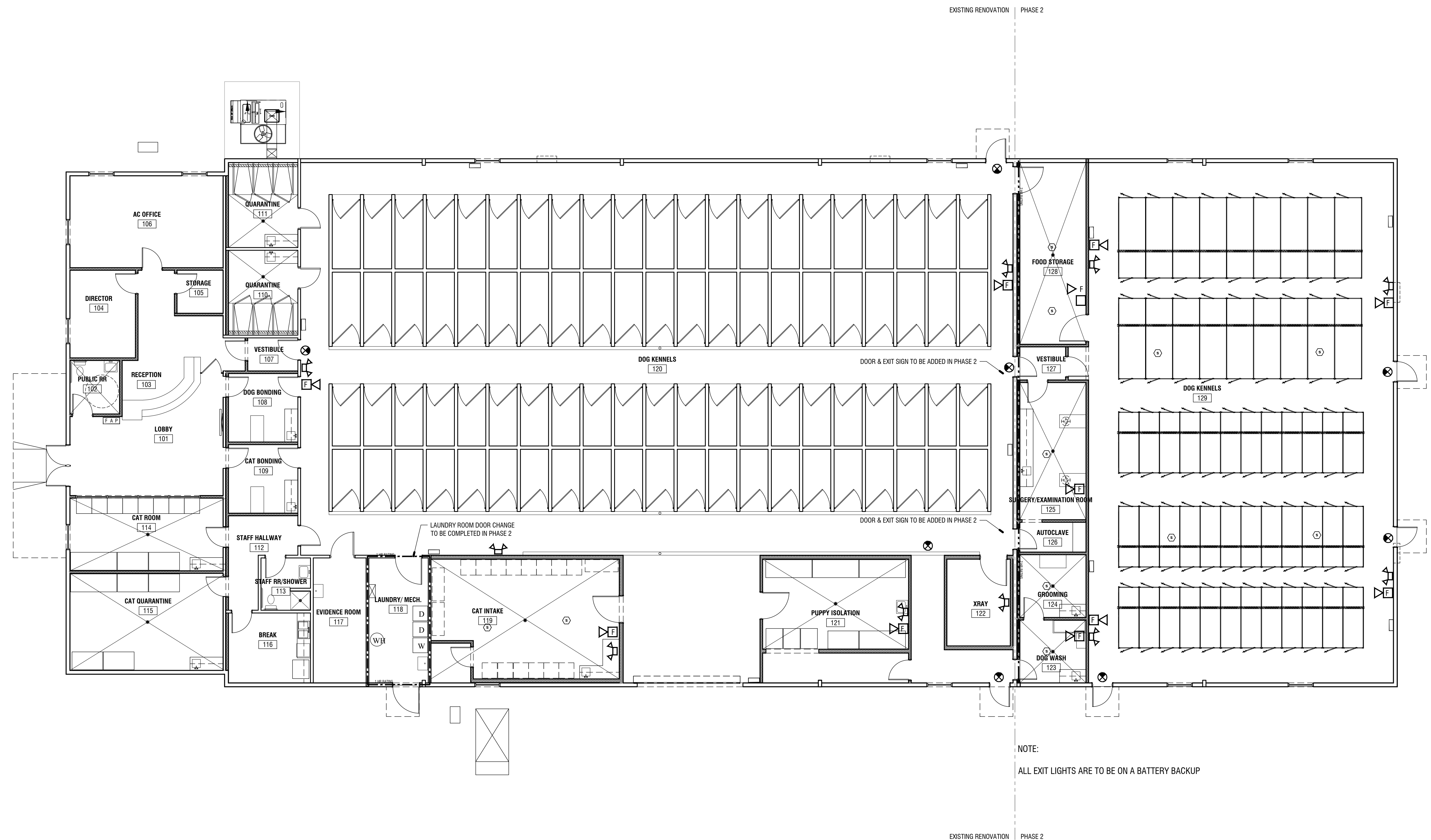
No systems required per 38.3.4.1 (1), (2), and (3). Complete fire alarm system to be provided - Complies with NFPA 72.

Communication System: 38.3.5

Portable Fire Extinguishers are required complying with 7.4.1.1

CodeBook - 38.3.6

Corridor protection is not required in Single Tenant Buildings - 38.3.6.1 (2).

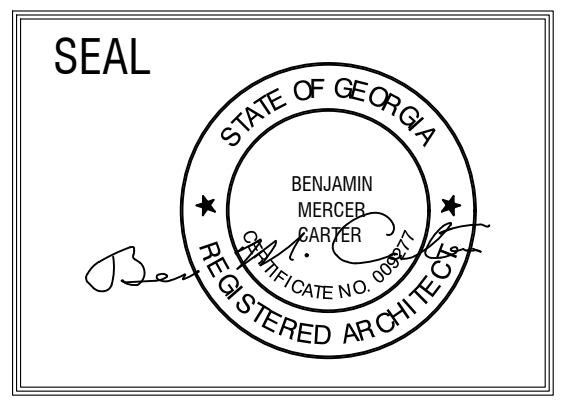


1 LIFE AND SAFETY PLAN
 1/8" = 1'-0"

REVISIONS					
Number	Date	Remarks	Number	Date	Remarks
1	05.05.21	UPDATED ROOM FINISH SCHEDULE AND WALL TYPES			

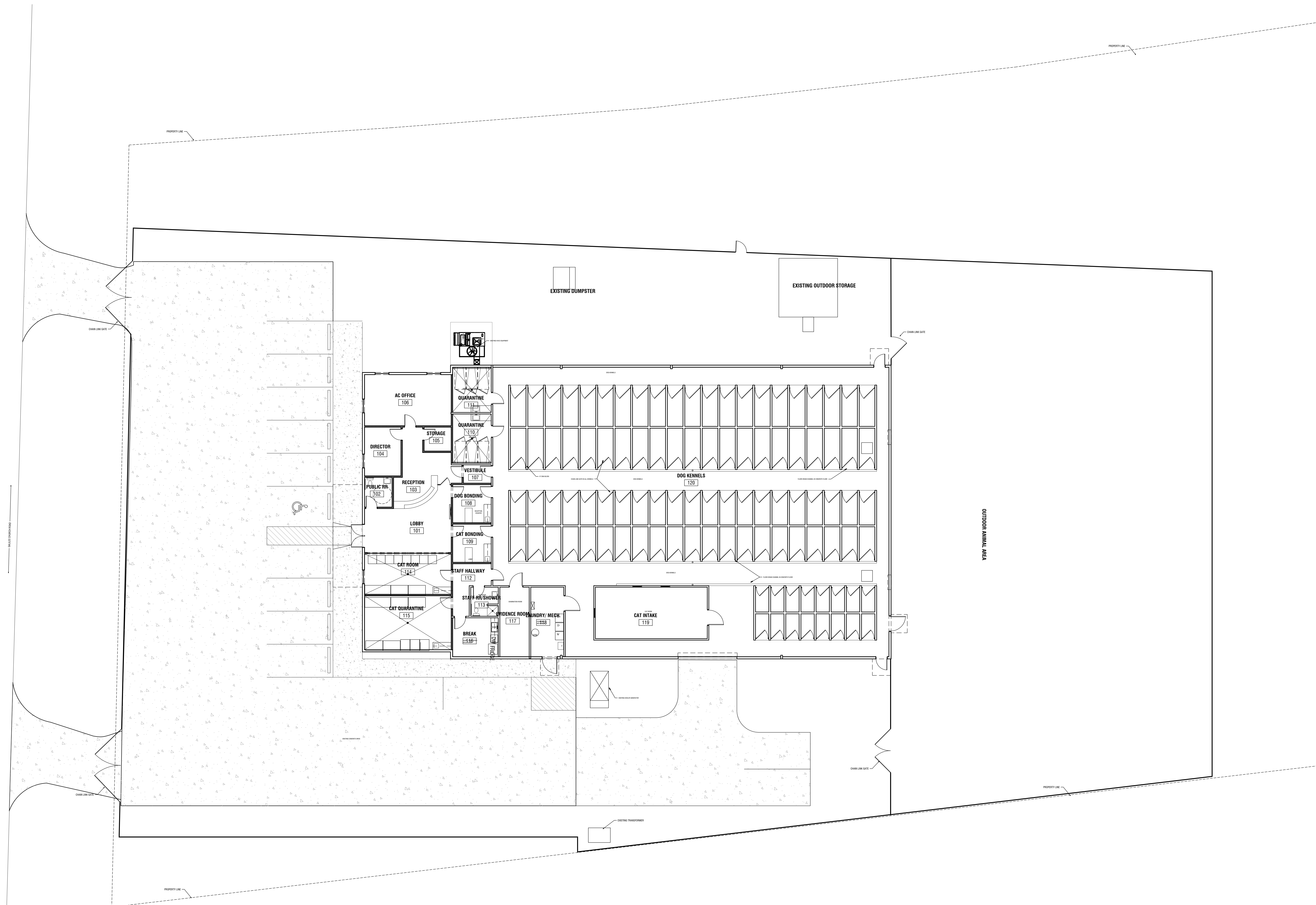
CONSULTANTS

CARTER WATKINS ASSOCIATES ARCHITECTS, INC.
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 137 EAST WASHINGTON STREET
 MONROE, GEORGIA 30655
 Fax: 770.267-1064
 email@carterwatkins.com www.carterwatkins.com



JACKSON COUNTY ANIMAL SHELTER
 JEFFERSON, GEORGIA

SHEET TITLE: LIFE SAFETY PLAN LS-101 LIFE SAFETY PLAN	NUMBER: LS-101
PRINTED:	

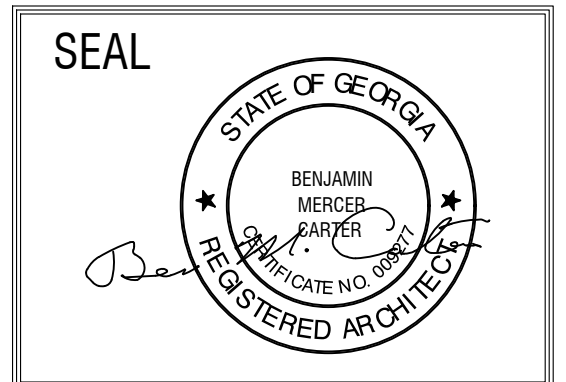


1 EXISTING SITE PLAN

REVISIONS					
Number	Date	Remarks	Number	Date	Remarks
1	05.05.21	UPDATED ROOM FINISH SCHEDULE AND WALL TYPES			

CONSULTANTS	
Number	Remarks

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JACKSON COUNTY ANIMAL SHELTER
 JEFFERSON, GEORGIA

SHEET TITLE:
 EXISTING SITE PLAN C-101 EXISTING SITE PLAN
 PRINTED:

NUMBER:
C-101

SITE DEVELOPMENT PLANS FOR JACKSON COUNTY ANIMAL CONTROL SHELTER PHASE 2

29 GALILEE CHURCH ROAD
JEFFERSON, GEORGIA 30549

DESIGNED BY:
CIVIL SOLUTIONS, INC.
ENGINEERING ~ PLANNING
750 BELMONT ROAD
ATHENS, GA 30605
PHONE: 706-255-2443

TOPOGRAPHIC INFORMATION BY:
WOOD BROTHERS LAND SURVEYORS, INC.
P.O. BOX 477
JEFFERSON, GA 30549
PHONE: 706-387-0075

GPS LOCATION OF THE SITE:

34.09576°N
83.57230°W

DISTURBED ACREAGE = 0.48 ACRES



LOCATION MAP
N.T.S.

SHEET INDEX

C1.	COVER SHEET
C2.	EXISTING CONDITIONS & DEMOLITION PLAN
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C7.	EROSION CONTROL DETAILS
C8.	CONSTRUCTION DETAILS



CIVIL SOLUTIONS, INC.
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OFFICE 706-255-2443

OWNER & DEVELOPER
JACKSON COUNTY GEORGIA
67 ATHENS STREET
JEFFERSON, GA 30549
(706)387-6312

SITE DEVELOPMENT PLANS FOR:
JACKSON COUNTY
ANIMAL CONTROL SHELTER
JEFFERSON, GEORGIA

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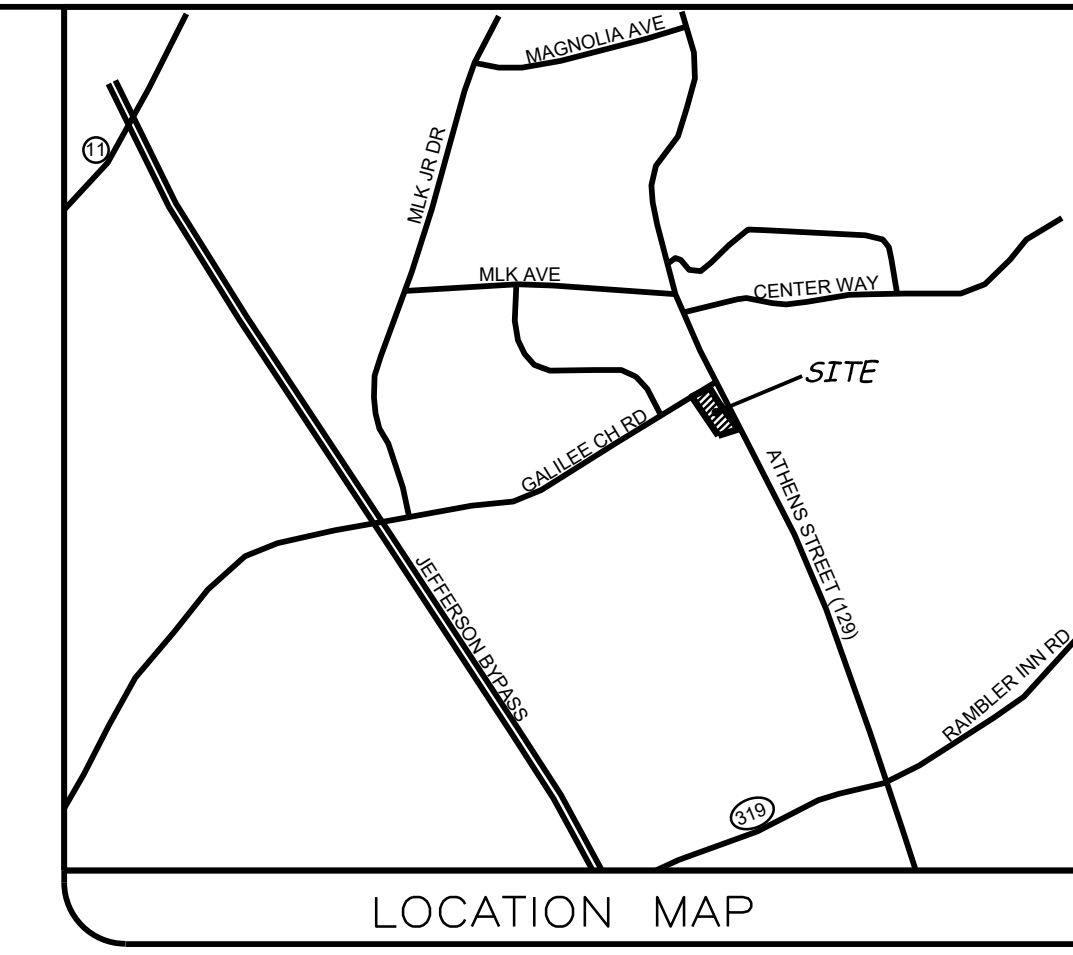
GMD	CITY
245	JEFFERSON
COUNTY	JACKSON

	REVISIONS	DATE	DATE
			05/16/23
			SHEET
			C1

LEVEL II CERTIFICATION #13718

*NOTE:
EXISTING UNDERGROUND UTILITIES LOCATIONS AS SHOWN SHOULD BE CONSIDERED APPROXIMATE AND MAY NOT BE COMPLETE. UNDERGROUND UTILITIES AS SHOWN ARE BASED ON INFORMATION PROVIDED BY UTILITY OWNERS. THE CONTRACTOR SHALL FIELD VERIFY ALL UTILITY LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY DAMAGE TO SUCH UTILITIES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.

2.346 ACRES



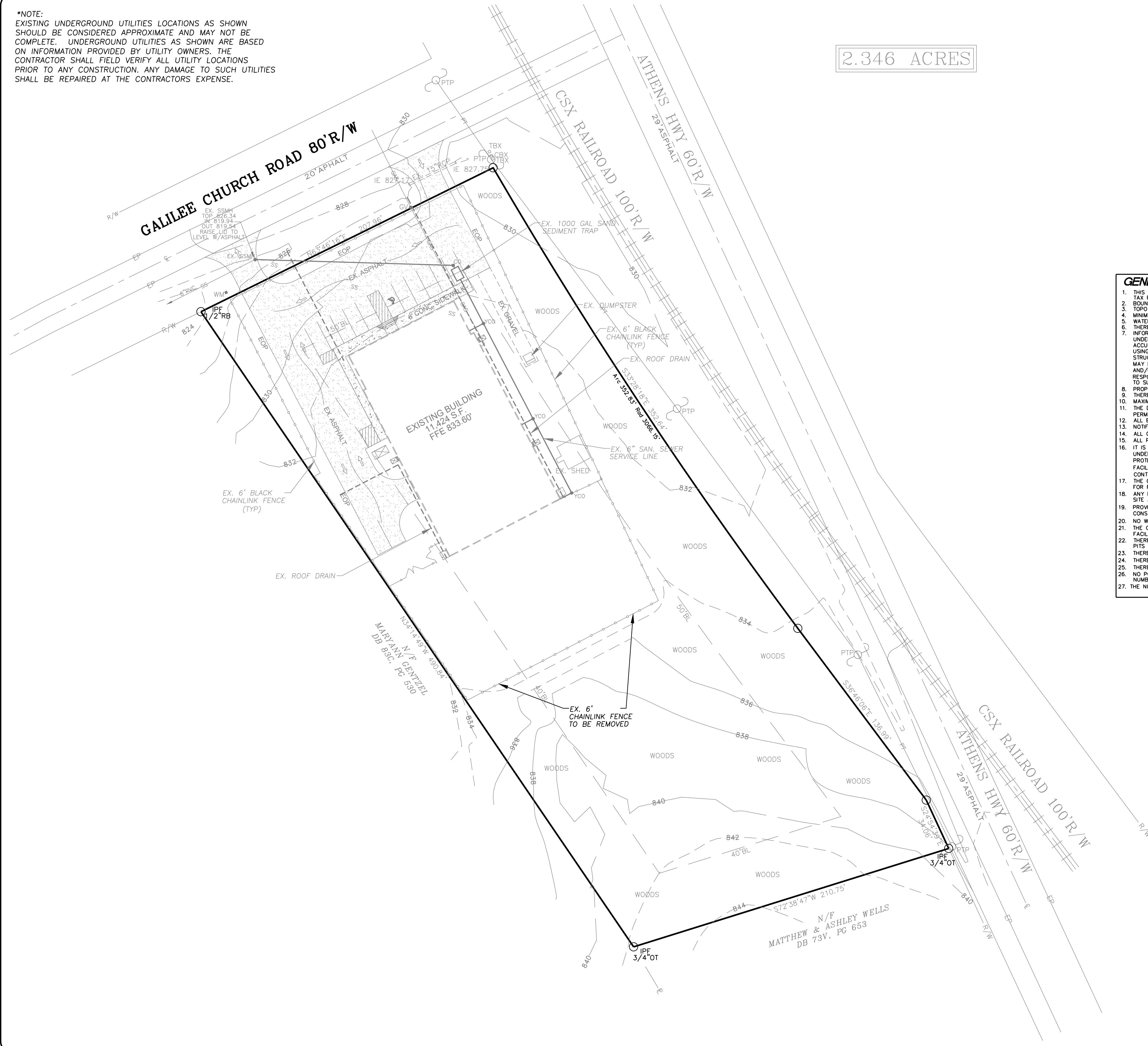
CIVIL SOLUTIONS, INC.
ENGINEERS ~ PLANNERS
750 BELMONT ROAD
ATHENS, GA 30606
OFFICE 706-255-2443

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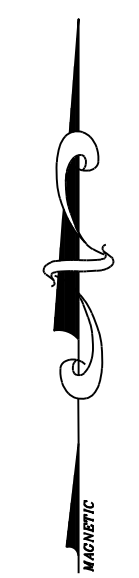
EXISTING CONDITIONS FOR:
JACKSON COUNTY
ANIMAL CONTROL SHELTER
JEFFERSON, GEORGIA

GMD	245	COUNTY	JACKSON	CITY	JEFFERSON

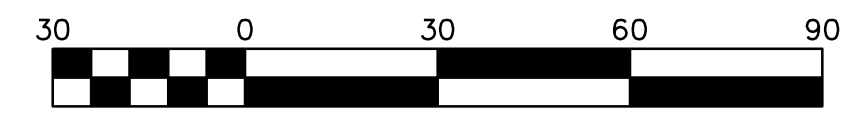
DATE
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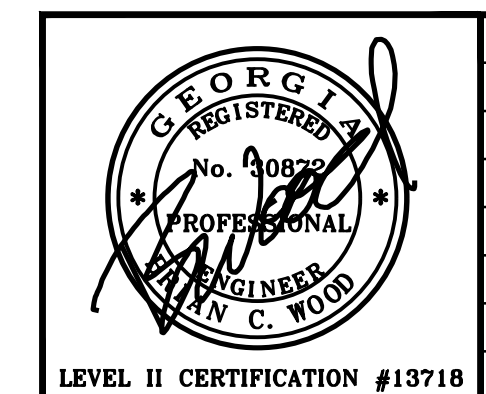
- GENERAL NOTES:**
- THIS TRACT CONTAINS 2.346 ACRES
 - TAX PARCEL #069 037P
 - BOUNDARY BY WOOD BROTHERS LAND SURVEYORS, INC. DATED 2/22/2021.
 - TOPO WAS FIELD RUN BY WOOD BROTHERS LAND SURVEYORS, INC. DATED 2/22/2021.
 - MINIMUM BUILDING LINES: 40' FRONT, 40' SIDE AND 40' REAR.
 - WATER AND SANITARY SEWER SERVICE TO BE PROVIDED BY CITY OF JEFFERSON.
 - THERE ARE EXISTING STRUCTURES ON SITE.
 - INFORMATION REGARDING THE REPUTED PRESENCE, SIZE, CHARACTER, AND LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES IS SHOWN HEREON. THERE IS NO CERTAINTY OF THE ACCURACY OF THIS INFORMATION AND IT SHALL BE CONSIDERED IN THAT LIGHT BY THOSE USING THIS DRAWING. THE LOCATION AND ARRANGEMENT OF UNDERGROUND UTILITIES AND STRUCTURES SHOWN HEREON MAY BE INACCURATE AND UTILITIES AND STRUCTURES NOT SHOWN MAY BE ENCOUNTERED. THE OWNER, HIS EMPLOYEES, HIS CONSULTANTS, HIS CONTRACTORS, AND/OR HIS AGENTS SHALL HEREBY DISTINCTLY UNDERSTAND THAT THE SURVEYOR IS NOT RESPONSIBLE FOR THE CORRECTNESS OR SUFFICIENCY OF THIS INFORMATION SHOWN HEREON AS TO SUCH UNDERGROUND INFORMATION.
 - PROPOSED USE: 16,000 SF GOVERNMENT BUILDING.
 - THERE WILL BE NO DRIVE-THRU WINDOWS.
 - MAXIMUM CUT OR FILL SLOPES IS 3H:1V.
 - THE DEVELOPER AND CONTRACTOR ARE RESPONSIBLE FOR OBTAINING ALL DEVELOPMENT PERMITS PRIOR TO CONSTRUCTION.
 - ALL EROSION CONTROL DEVICES MUST BE IN PLACE PRIOR TO ANY GRADING.
 - NOTIFY INSPECTOR 24 HOURS PRIOR TO CONSTRUCTION.
 - ALL CONSTRUCTION TO CONFORM TO JACKSON COUNTY STANDARDS AND SPECIFICATIONS.
 - ALL PROPOSED CONTOURS ARE FINISHED GRADE.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES AND TO TAKE WHATEVER STEPS ARE NECESSARY TO PROVIDE FOR THEIR PROTECTION. THE ENGINEER HAS DILIGENTLY ATTEMPTED TO LOCATE AND INDICATE ALL EXISTING FACILITIES ON THESE PLANS. HOWEVER, THIS INFORMATION IS SHOWN FOR THE CONTRACTOR TO CONTACT THE UTILITY PRIOR TO STARTING CONSTRUCTION.
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 - ANY EXCESS EARTH CUT MATERIALS, IF ANY, SHALL BE PLACED AT A LOCATION ON OR NEAR THE SITE AS DESIGNATED BY THE OWNER.
 - PROVIDE & MAINTAIN OFF-STREET PARKING ON THE SUBJECT PROPERTY DURING THE ENTIRE CONSTRUCTION PERIOD.
 - NO WASTE MATERIAL IS TO BE BURIED ON SITE.
 - THE OWNER IS RESPONSIBLE FOR MAINTENANCE OF THE STORM DRAIN SYSTEM AND DETENTION FACILITY OUTSIDE OF THE RIGHT-OF-WAY.
 - THERE ARE NO KNOWN EXISTING OR PREVIOUSLY EXISTING LANDFILLS OR PROPOSED ONSITE BURIAL PITS ON SITE.
 - THERE ARE NO CEMETERIES OR OTHER SIGNIFICANT OR HISTORICAL AREAS ON THE SITE.
 - THERE ARE NO WETLANDS ON SITE PER THE NATIONAL WETLANDS INVENTORY MAPPER.
 - THERE ARE NO STATE WATERS ON SITE.
 - NO PORTION OF THE PROPERTY LIES WITHIN A FLOOD ZONE ACCORDING TO FIRM COMMUNITY PANEL NUMBER 13157C0255C, DATED DECEMBER 17, 2010.
 - THE NUMBER OF PROPOSED PARKING SPACES WAS DETERMINED BY OWNER TO BE 13 TOTAL SPACES.



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Scale 1" = 30'

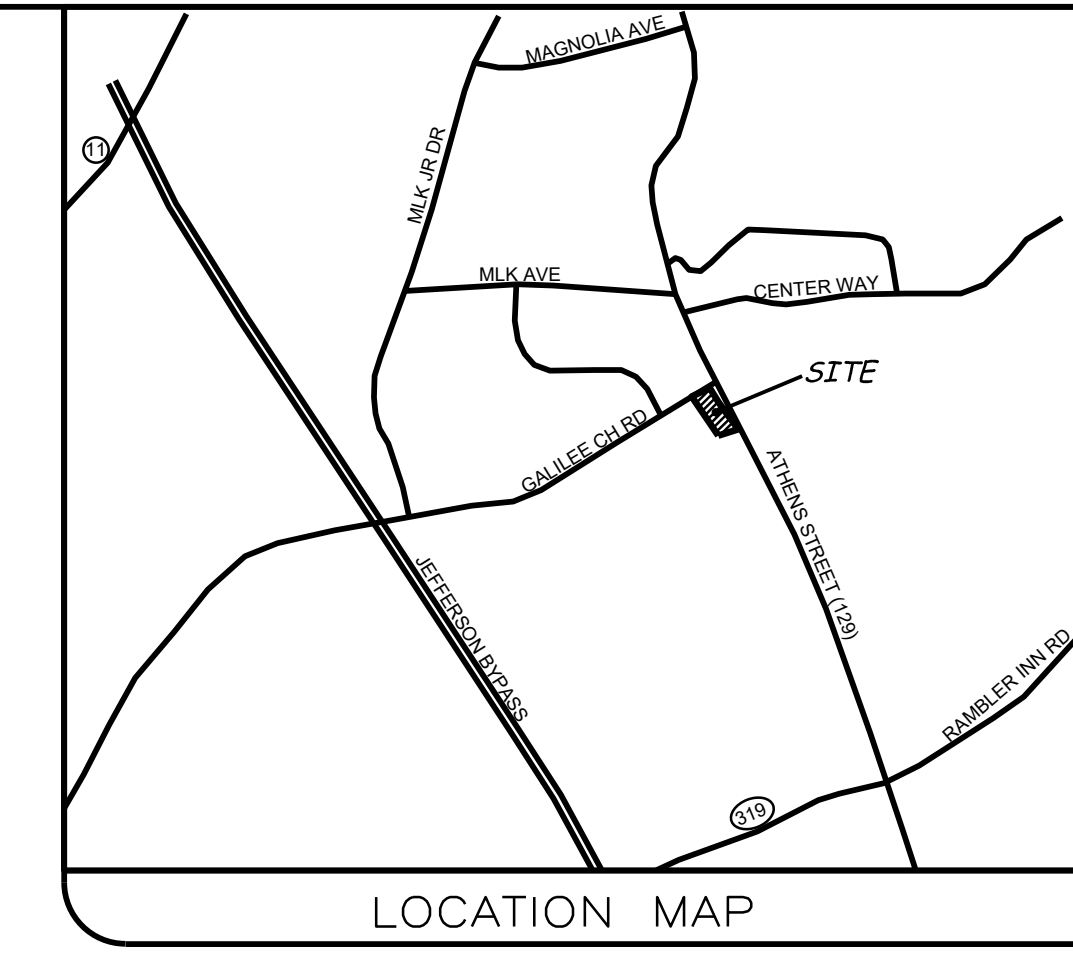


REVISIONS	DATE

LEVEL II CERTIFICATION #13718

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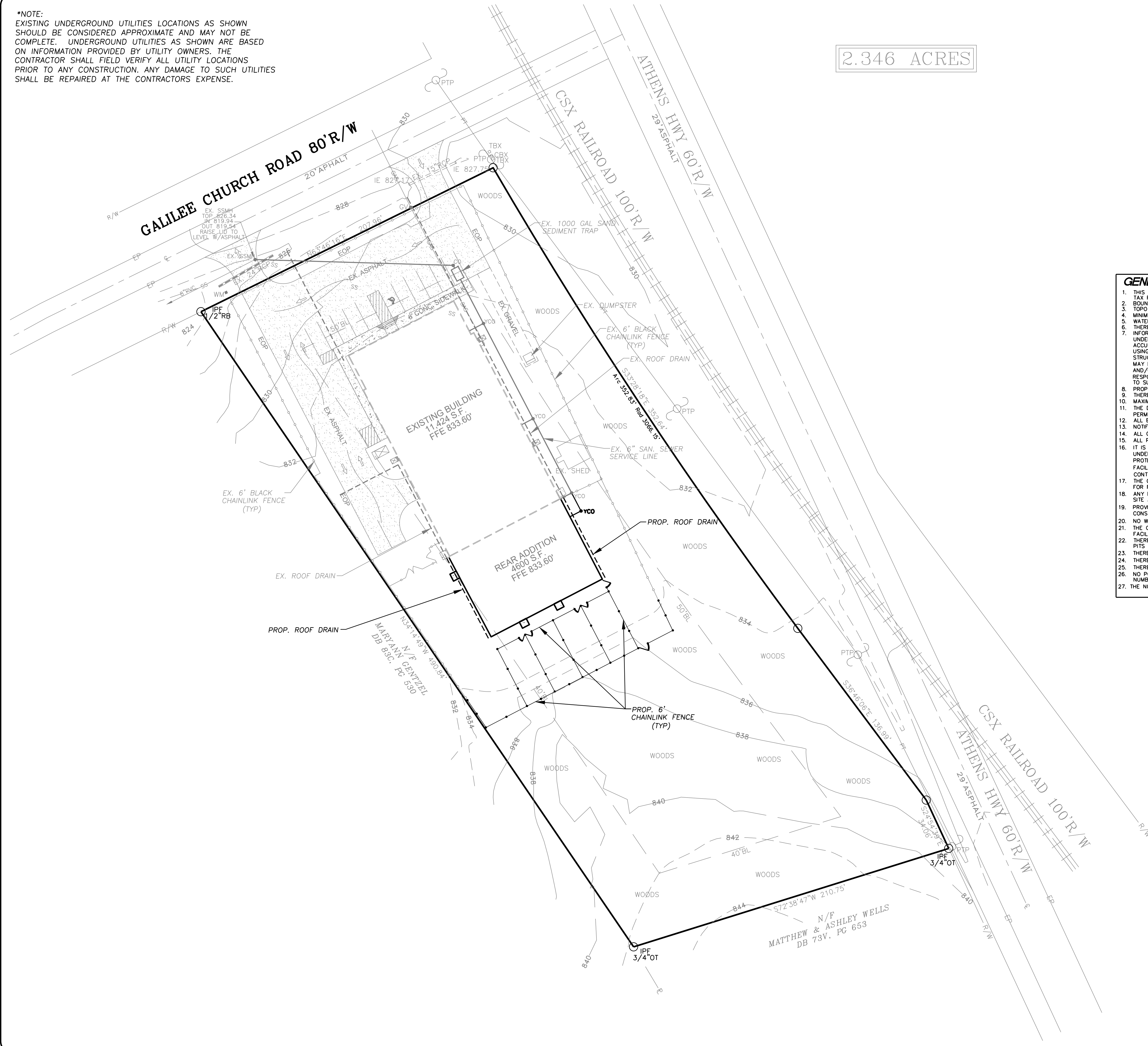


CIVIL SOLUTIONS, INC.
ENGINEERS ~ PLANNERS
750 BELMONT ROAD
ATLANTA, GA 30305
OFFICE 706-255-2443

OWNER & DEVELOPER
JACKSON COUNTY GEORGIA
67 ATHENS STREET
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SITE PLAN FOR:
JACKSON COUNTY
ANIMAL CONTROL SHELTER
JEFFERSON, GEORGIA

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	COUNTY	JACKSON
GMD	245	



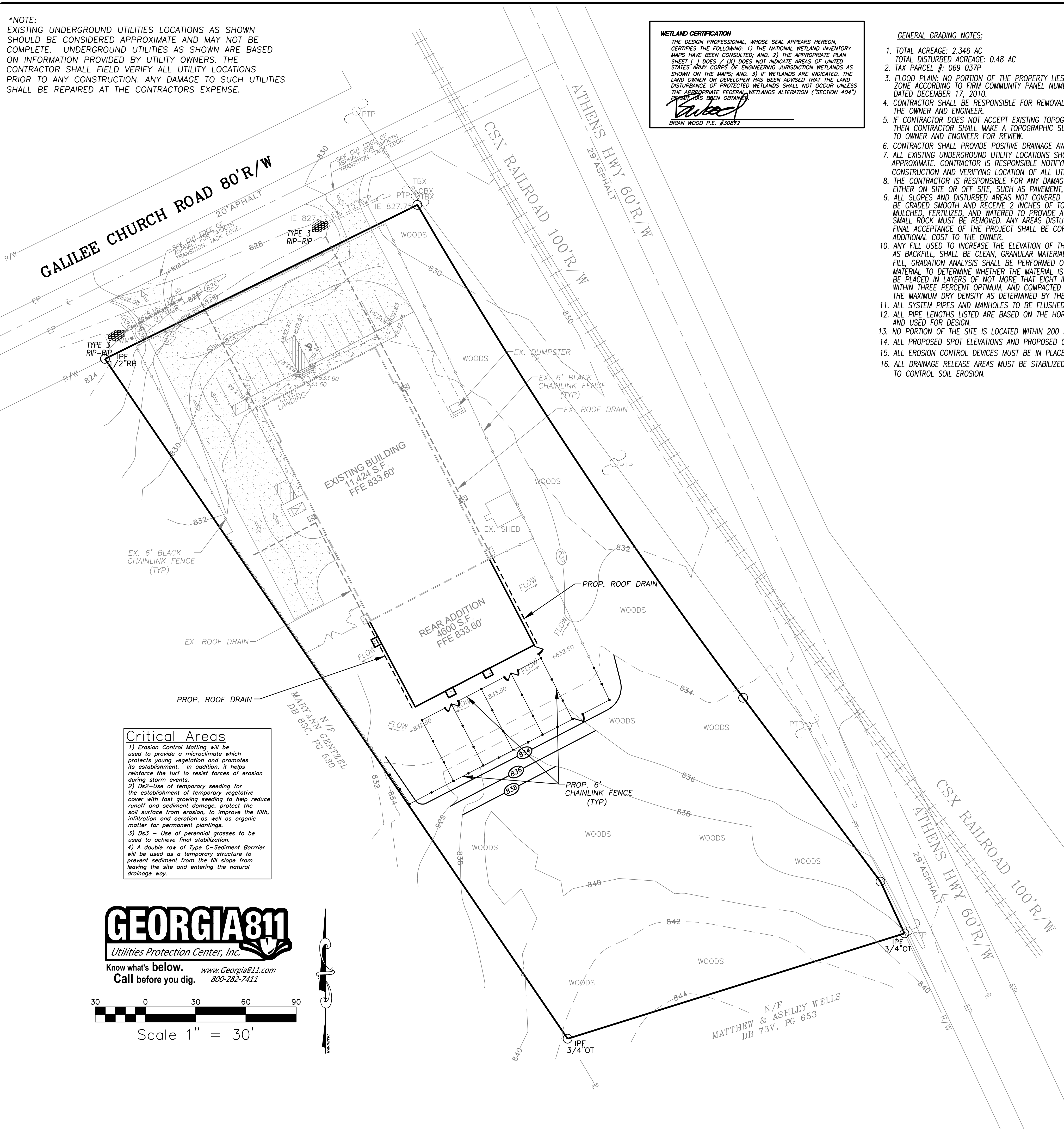
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	REVISIONS	DATE	DATE
			05/16/23
LEVEL II CERTIFICATION #13718			SHEET
			C3

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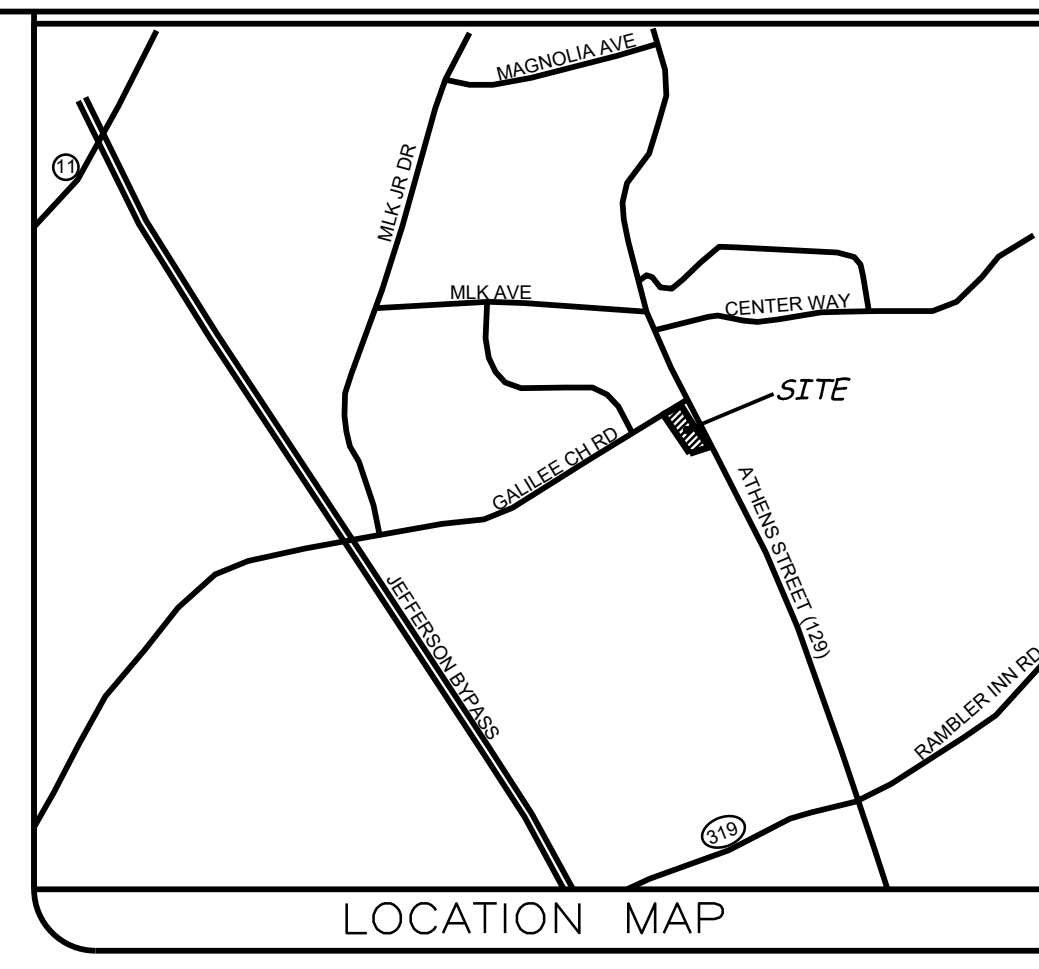
GALILEE CHURCH ROAD 80'R/W
 20' ASPHALT



WETLAND CERTIFICATION
 THE DESIGN PROFESSIONAL, WHOSE SEAL APPEARS HEREON, CERTIFIES THE FOLLOWING: 1) THE NATIONAL WETLAND INVENTORY MAPS HAVE BEEN CONSULTED, AND, 2) THE APPROPRIATE PLAN SHEET [] DOES / [X] DOES NOT INDICATE AREAS OF UNITED STATES ARMY CORPS OF ENGINEERING JURISDICTION WETLANDS AS SHOWN ON THE MAPS; AND, 3) IF WETLANDS ARE INDICATED, THE LAND OWNER OR DEVELOPER HAS BEEN ADVISED THAT THE LAND DISTURBANCE OF PROTECTED WETLANDS SHALL NOT OCCUR UNLESS THE APPROPRIATE FEDERAL WETLANDS ALTERATION ("SECTION 404") PERMIT HAS BEEN OBTAINED.

Brian Wood
 BRIAN WOOD P.E. #30892

- GENERAL GRADING NOTES:**
- TOTAL ACREAGE: 2.346 AC
 TOTAL DISTURBED ACREAGE: 0.48 AC
 - TAX PARCEL #: 069 037P
 - FLOOD PLAIN: NO PORTION OF THE PROPERTY LIES WITHIN A FLOOD ZONE ACCORDING TO FIRM COMMUNITY PANEL NUMBER 13157C0255C, DATED DECEMBER 17, 2010.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEBRIS NOT ACCEPTABLE TO THE OWNER AND ENGINEER.
 - IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN, WITHOUT EXCEPTION, THEN CONTRACTOR SHALL MAKE A TOPOGRAPHIC SURVEY AT THEIR EXPENSE AND SUBMIT IT TO OWNER AND ENGINEER FOR REVIEW.
 - CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS.
 - ALL EXISTING UNDERGROUND UTILITY LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. CONTRACTOR IS RESPONSIBLE NOTIFYING ALL UTILITIES BEFORE CONSTRUCTION AND VERIFYING LOCATION OF ALL UTILITIES SHOWN OR NOT SHOWN.
 - THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ANY EXISTING IMPROVEMENTS, EITHER ON SITE OR OFF SITE, SUCH AS PAVEMENT, UTILITIES, STORM DRAINAGE, ETC.
 - ALL SLOPES AND DISTURBED AREAS NOT COVERED BY BUILDING OR PAVEMENT ARE TO BE GRADED SMOOTH AND RECEIVE 2 INCHES OF TOP SOIL. THE AREAS SHALL BE SEEDED, MULCHED, FERTILIZED, AND WATERED TO PROVIDE A HEARTY MOWABLE STAND OF GRASS. SMALL ROCK MUST BE REMOVED. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE PROJECT SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 - ANY FILL USED TO INCREASE THE ELEVATION OF THE FLOOR SLAB OR ANY FILL TO BE USED AS BACKFILL, SHALL BE CLEAN, GRANULAR MATERIAL. PRIOR TO THE USE OF ANY GRANULAR FILL, GRADATION ANALYSIS SHALL BE PERFORMED ON REPRESENTATIVE SAMPLES OF THE FILL MATERIAL TO DETERMINE WHETHER THE MATERIAL IS SUITABLE AS FILL. COMPACTED FILL SHALL BE PLACED IN LAYERS OF NOT MORE THAN EIGHT INCHES IN THICKNESS, AT MOISTURE CONTENTS WITHIN THREE PERCENT OPTIMUM, AND COMPACTED TO MINIMUM DENSITY OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR METHOD, ASTM D-698.
 - ALL SYSTEM PIPES AND MANHOLES TO BE FLUSHED CLEAN PRIOR TO TURNING OVER TO OWNER.
 - ALL PIPE LENGTHS LISTED ARE BASED ON THE HORIZONTAL DISTANCE FROM CENTER OF STRUCTURE AND USED FOR DESIGN.
 - NO PORTION OF THE SITE IS LOCATED WITHIN 200 FEET OF A STATE WATERS.
 - ALL PROPOSED SPOT ELEVATIONS AND PROPOSED CONTOURS ARE SHOWN TO FINISHED GRADE.
 - ALL EROSION CONTROL DEVICES MUST BE IN PLACE PRIOR TO ANY GRADING.
 - ALL DRAINAGE RELEASE AREAS MUST BE STABILIZED WITH GRASSING, AND OR RIP-RAP, AS NECESSARY TO CONTROL SOIL EROSION.

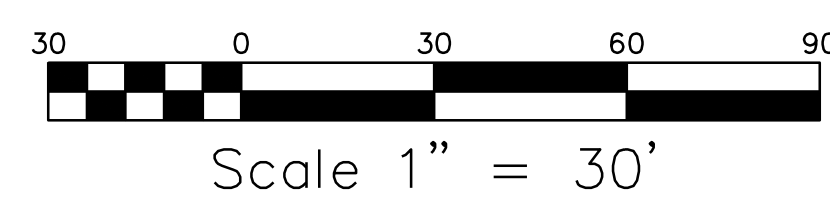


NOTE: LIMITS OF DISTURBANCE = 0.48 AC
 NOTE: GRADING SHALL BE DONE IN ACCORDANCE WITH THE LINES AND GRADES DRAWN ON THE APPROVED GRADING PLAN.
 NOTE: REQUIRED EROSION AND SEDIMENTATION CONTROL MEASURES ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AS DEVELOPMENT PROGRESSES.
 NOTE: THERE IS NO FEMA FLOOD PER FEMA FIRM PANEL NUMBER 13157C0255C, DATED DECEMBER 17, 2010.

Critical Areas

- Erosion Control Matting will be used to provide a microclimate which protects young vegetation and promotes its establishment. In addition, it helps reinforce the turf to resist forces of erosion during storm events.
- Ds2 - Use of temporary seeding for the establishment of temporary vegetative cover with fast growing seeding to help reduce runoff and sediment damage, protect the soil surface from erosion, to improve the tilth, infiltration and aeration as well as organic matter for permanent plantings.
- Ds3 - Use of perennial grasses to be used to achieve final stabilization.
- A double row of Type C - Sediment Barrier will be used as a temporary structure to prevent sediment from the fill slope from leaving the site and entering the natural drainage way.

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OWNER & DEVELOPER
JACKSON COUNTY GEORGIA
 67 ATHENS STREET
 JEFFERSON, GA 30549
 (706)367-6312

GRADING AND DRAINAGE PLAN FOR:
JACKSON COUNTY
ANIMAL CONTROL SHELTER
 JEFFERSON, GEORGIA

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GMD	CITY
245	JEFFERSON
COUNTY	JACKSON

REVISIONS	DATE

DATE
05/16/23

SHEET
C4

REGISTERED PROFESSIONAL ENGINEER
 BRIAN WOOD
 LEVEL II CERTIFICATION #13718

TENTATIVE CONSTRUCTION SCHEDULE

PHASE I INFRASTRUCTURE	2022				
	JAN	JUL	AUG	SEP	OCT
INSTALLATION OF CONSTRUCTION ERT AND PERIMETER SILT FENCE					
CLEARING & GRUBBING					
INSTALL GRADING PHASE EROSION MEASURES					
PRELIMINARY GRADING					
BUILDING CONSTRUCTION					
INSTALLATION OF UTILITY LINES					
PAVING					
INSTALL FINAL PHASE EROSION MEASURES					
FINAL GRADING					
REMOVE TEMPORARY EROSION MEASURES					
MAINTENANCE OF BMP'S					
TEMPORARY STABILIZATION					

SOILS:
CeB - Cecil sandy loam, 2 to 6 percent slopes

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING

EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

THERE ARE NO WETLANDS OR STATE WATERS ON OR WITHIN 200 FEET OF THE SITE.
THERE ARE NO STATE BUFFERS REQUIRED FOR THIS SITE.

CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY SUPERVISION.

Edward
BRIAN WOOD, P.E. #20872

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.

CONTRACTOR TO CONDUCT SOIL TESTS TO IDENTIFY AND TO IMPLEMENT SITE-SPECIFIC FERTILIZER NEEDS.

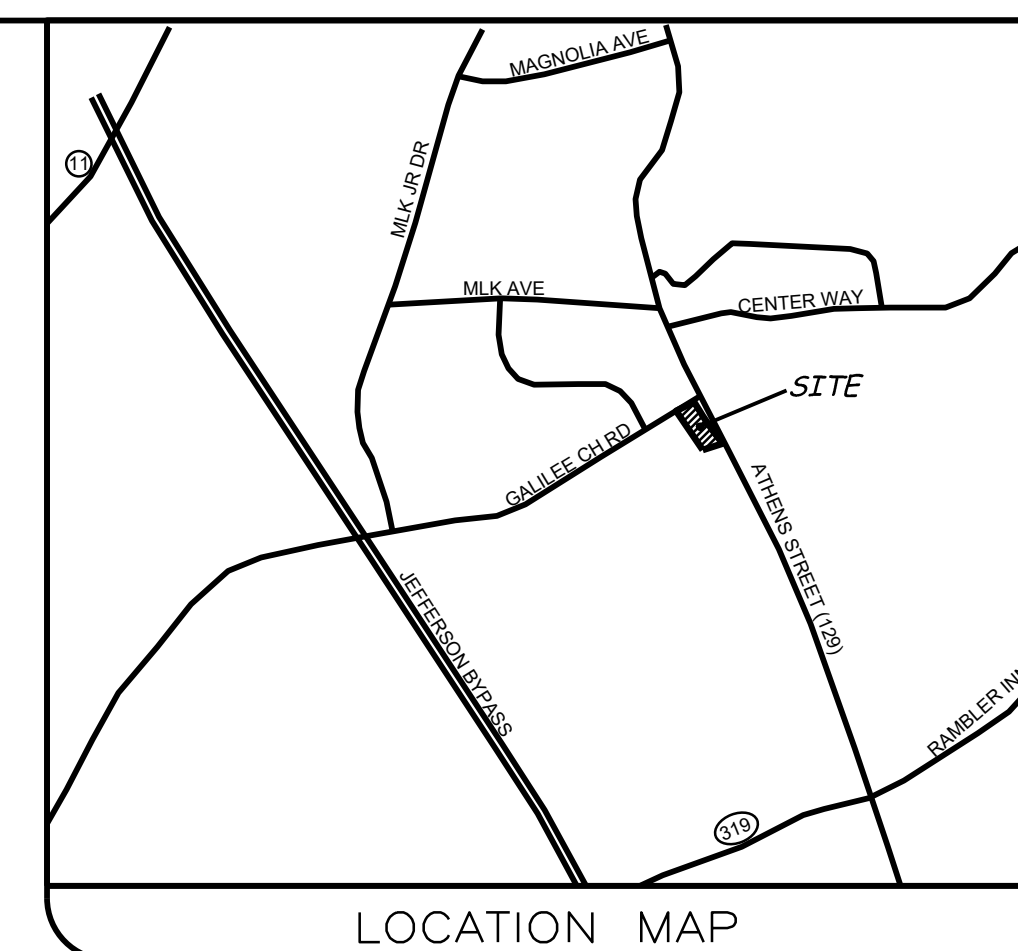
SILT CONTROL CALCULATIONS

Disturbed Area (acre)	Required Vol. of Silt Control (cubic yard)	BMP's Utilized	Actual Vol. of Silt Control per BMP (cubic yard)	Total Actual Vol. of Silt Control (cubic yard)
0.48	32	142 ft. Sd1	24.1	33.1
		Cd	9.0	

Volume calculations based upon the following:
- Sd1 assumes a silt fence placed on a 2:1 slope and allowed to fill 0.30 feet, i.e., Volume = 0.17 cu. yd./ft.

... GENERAL EROSION CONTROL NOTES ...

- A PERMANENT GROUND COVER WILL BE ESTABLISHED IN ACCORDANCE TO THE VEGETATIVE PLAN SHOWN ON THE BMP DETAIL SHEET.
- ALL EROSION CONTROL MEASURES MUST BE CHECKED DAILY AND MAINTAINED AS NECESSARY TO PREVENT EROSION.
- EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTIONS.
- THE INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO LAND-DISTURBING ACTIVITIES.
- MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE SITE CONTRACTOR.
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
- EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. PRACTICES WILL BE CHECKED DAILY.
- ADDITIONAL MEASURES WILL BE ADDED IF DETERMINED TO BE NEEDED BY ON-SITE INSPECTIONS.
- STANDARDS AND SPECIFICATIONS: ALL DESIGNS WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE PUBLICATION ENTITLED "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA."
- ADDITIONAL MEASURES WILL BE ADDED IF DETERMINED TO BE NEEDED BY ON-SITE INSPECTIONS.
- NO PORTION OF THE PROPERTY SHOWN HEREON IS IN A DESIGNATED FLOOD HAZARD AREA ACCORDING TO THE COMMUNITY NO. #13157C0255C, DATED DECEMBER 17, 2010.
- THERE ARE NO WETLANDS SHOWN ON SITE PER THE NATIONAL WETLANDS INVENTORY MAPS.
- NO DISPOSAL ON SITE: ALL CONSTRUCTION DEBRIS WILL BE DISPOSED IN A JACKSON COUNTY/STATE APPROVED LANDFILL.
- NO STAGING AREAS ON SITE FOR PETROLEUM PRODUCTS, CONSTRUCTION PRODUCTS SUCH AS PAINTS AND STAINS, OR CHEMICAL PRODUCTS SUCH AS PESTICIDES, HERBICIDES, OR FERTILIZERS.
- A 25 FOOT UNDISTURBED BUFFER ADJACENT TO ALL STREAMS, CREEKS, LAKES, PONDS, ETC. IS REQUIRED TO BE MAINTAINED BY THE SOIL EROSION AND SEDIMENT CONTROL ORDINANCE (ARTICLE 4 SECTION 4.3 PARAGRAPH 15). A DOUBLE ROW OF TYPE "S" SILT FENCE IS REQUIRED ALONG ALL 25' UNDISTURBED BUFFERS.
- SEDIMENT STORAGE MAINTENANCE INDICATORS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, INDICATING THE 1/3 FULL VOLUME.
- THE Sd2-F AND Sd2-P IS NOT TO BE USED CONCURRENTLY IN THE AREA OF APPLICATION. Sd2-P IS TO BE USED AFTER THE INSTALLATION OF PAVEMENT. IN ADDITION, EXCAVATED INLET TRAPS MAY BE USED. THE ADDITIONAL STORAGE PROVIDED BY THE USE OF Sd2-F (SEE DETAIL) HAS NOT BEEN INCORPORATED INTO THE SILT CALCULATIONS. THIS ADDITIONAL STORAGE IS ABOVE AND BEYOND THE 67 CY/AC REQUIRED FOR EACH BASIN.
- MATTING OR BLANKETS (SLOPE STABILIZATION) WILL BE USED IN ACCORDANCE WITH PAGE 6-69 OF THE 2016 EDITION MANUAL FOR EROSION AND SEDIMENTATION CONTROL IN GEORGIA.
- NO SLOPES TO EXCEED 3 TO 1. CRITICAL AREAS ARE AT ALL DETENTION PONDS, ALL SLOPES GREATER THAN 2.5 TO 1, AND ALL SLOPES GREATER THAN 10 FEET IN HEIGHT.
- WASTE DISPOSAL: SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
- THE SOIL EROSION AND SEDIMENT CONTROL PLAN IS IN COMPLIANCE WITH WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS.
- NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50 FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF UNRESTED VEGETATION OR WITHIN 25 FT OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTION DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.
- AMENDMENTS TO THE PLAN THAT HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
- PRE-DEVELOPED CN=66 POST-DEVELOPED CN=69
- WATERPROOF TAPPS WEIGHTED DOWN ON THE EDGES TO BE USED TO PROTECT BUILDING MATERIALS DURING INCLEMENT WEATHER.
- THERE ARE NO EXISTING OR PROPOSED INERT WASTE BURY PITS ON SITE.
- ALL STREAM BUFFERS MUST BE FLAGGED PRIOR TO LAND DISTURBING ACTIVITIES.
- STORM WATER MANAGEMENT FACILITIES AND ES&PC MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- ALL DISTURBED AREAS TO BE GRASSED AS SOON AS CONSTRUCTION PHASES PERMIT.
- CUT AND FILL SLOPES SHALL NOT EXCEED 3H:1V ON RESIDENTIAL PROJECTS AND LOTS, AND SHALL NOT EXCEED 2H:1V ON ALL OTHER PROJECTS.
- EROSION, SEDIMENT AND POLLUTION CONTROL MEASURES AND PRACTICES ARE TO BE CHECKED DAILY.
- TEMPORARY ES&PC BMP'S WILL BE REMOVED WHEN SITE IS 85% STABILIZED WITH PERMANENT VEGETATION.



**GEORGIA
UNIFORM CODING SYSTEM**

FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES
GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	ODORAM			A small temporary barrier or dam constructed across a ravine, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for turning mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION			A roadway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DRAINAGE STRUCTURE			A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and impervious.
Dn2	PERMANENT DRAINAGE STRUCTURE			A paved chute, pipe, sectional conduit or other material designed to safely conduct surface runoff down a slope.
Fr	FILER RING			A temporary stone barrier constructed of storm drain inlets and pond outlets.
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE			Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILER DAM			A permanent or temporary stone filer dam installed across small streams or drainageways.
Re	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING			A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	NET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLATING SURFACE SHOWER			A burlap device that releases/drain water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BEAM			Linear control device constructed as a diversion structure to the direction of runoff to enhance dispersion and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMWATER OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING			A rough soil surface with horizontal ruts or grooves on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN			A floating or stacked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the soil surface after completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.
Wt	WOODED WATERSHED CONSERVATION			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation, or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (NON-VEGETATION)			Planting vegetation on dunes that are degraded, artificially constructed, or re-nourished.
Ds1	DESIGNED AREA STABILIZATION (NON-MULCHING/SEEDING)			Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion restoring cover.
Ds2	DESIGNED AREA STABILIZATION (MULCH/SEEDING)			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	DESIGNED AREA STABILIZATION (NON-TREE SEEDING)			Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DESIGNED AREA STABILIZATION (WOODING)			A permanent vegetative cover using sods on highly erodible or critically eroded lands.
Du	DUST CONTROLING AND STABILIZING			Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Cd	FLOCCULANTS AND COAGULANTS			Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STRIPING AND VEGETATION			The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION			A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKERS AND BINDERS			Substance used to anchor straw or hay matting by coating the organic material to bind together.

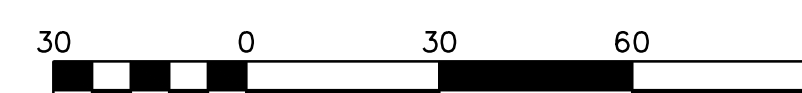
Critical Areas

- Erosion Control Matting will be used to provide a microclimate which protects young vegetation and promotes its establishment. In addition, it helps reinforce the turf to resist forces of erosion during storm events.
- Ds2-Use of temporary seeding for the establishment of temporary vegetative cover with fast growing seeding to help reduce runoff and sediment damage, protect the soil surface from erosion, improve the lith, infiltration and aeration as well as organic matter for permanent plantings.
- Ds3 - Use of perennial grasses to be used to achieve final stabilization.
- A double row of Type C-Sediment Barrier will be used as a temporary structure to prevent sediment from the fill slope from leaving the site and entering the natural drainage way.

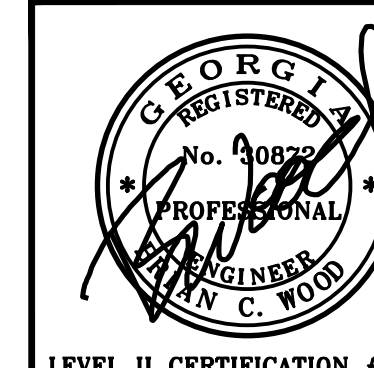
DESCRIPTION OF ACTIVITIES
CLEARING WILL BE KEPT TO A MINIMUM. VEGETATION AND MULCH WILL BE APPLIED TO APPLICABLE AREAS IMMEDIATELY AFTER GRADING IS COMPLETED. SEEDING, MULCHING AND FERTILIZING REQ. ARE SHOWN ON THE ES&PC PLAN AND CONSTRUCTION DETAILS.
ALL CRITICAL AREAS AND CUT AND FILL SLOPES EXCEEDING 2.5(H)/1(V) WILL BE TREATED WITH Su/SS/Ds3 OR Su/Ds4 IMMEDIATELY UPON COMPLETION. MSH SHOULD BE INSTALLED IN ACCORDANCE TO MANUFACTURER'S DIRECTIONS. GRAVEL WILL BE APPLIED TO PARKING LOT AS SOON AS GRADING IS COMPLETED. LAND DISTURBANCE SHOULD BE SCHEDULED TO LIMIT EXPOSURE OF BARE SOILS TO EROSION ELEMENTS. BEST MANAGEMENT PRACTICES WILL BE EMPLOYED TO PREVENT EROSION IN AREAS OF CONCENTRATED WATER FLOWS. EROSION IN GRASS CHANNELS SHALL BE PREVENTED BY THE INSTALLATION OF HAYBALE AND STONE CHECK DAMS.
EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO CONSTRUCTION AND SHALL BE CHECKED AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED. SEDIMENTS WILL BE MAINLY BY CONTROLLED BY SILT FENCE. A TEMPORARY CONSTRUCTION ENTRANCE WILL BE EMPLOYED AT THE ENTRANCE TO PREVENT THE TRANSPORT OF SEDIMENT FROM THE SITE BY VEHICULAR TRAFFIC. ANY MUD OR SEDIMENT THAT GETS INTO THE ROADWAY SHALL BE IMMEDIATELY CLEANED OFF THE ROAD.
NO SIGNIFICANT FLOODING OR CHANNEL DEGRADATION IS ANTICIPATED DOWNSTREAM OF THE DEVELOPMENT.



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Call before you dig. 800-282-7411



Scale 1" = 30'



LEVEL II CERTIFICATION #13718

REVISIONS	DATE

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ENGINEERS ~ PLANNERS
750 BELMONT ROAD
ATHENS, GA 30605
OFFICE 706-265-2443

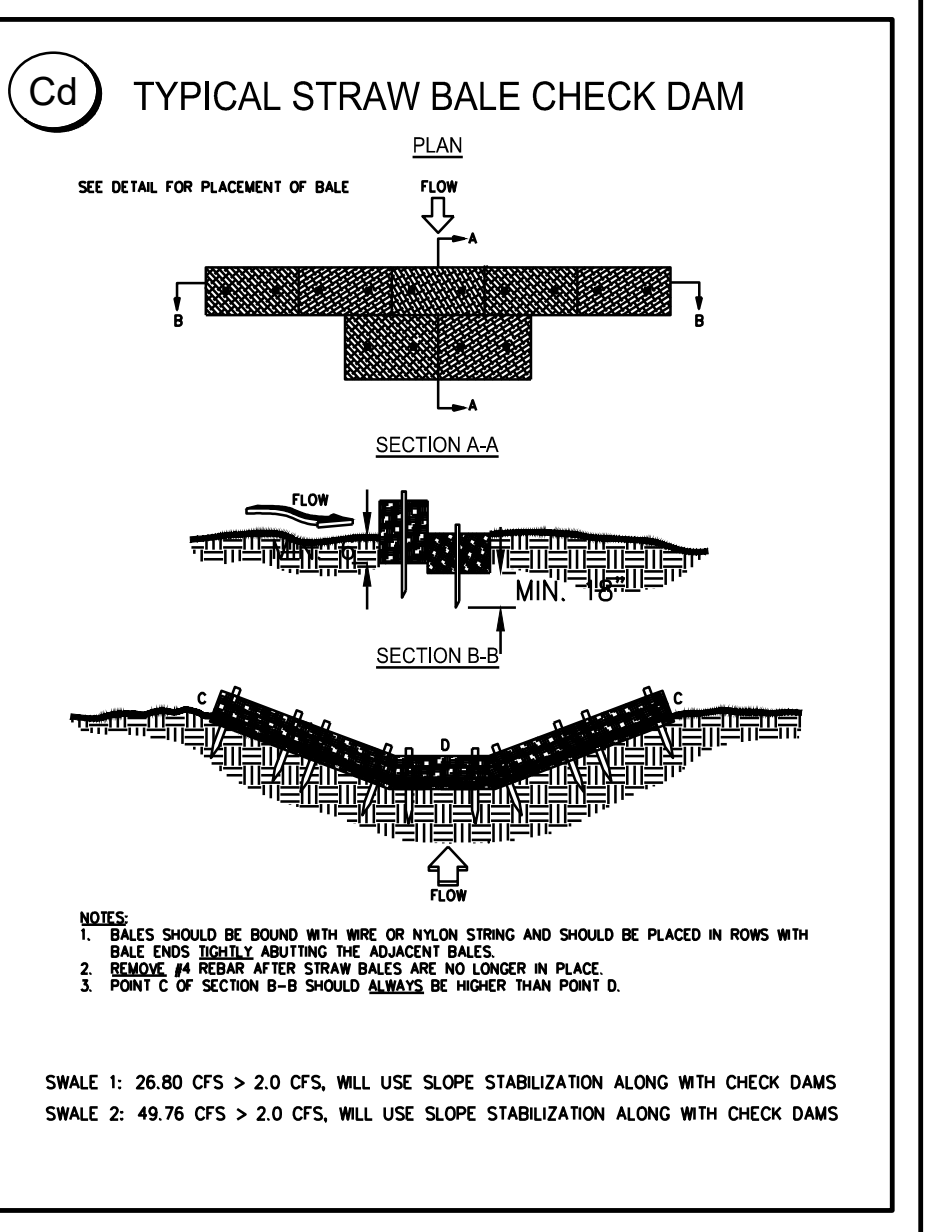
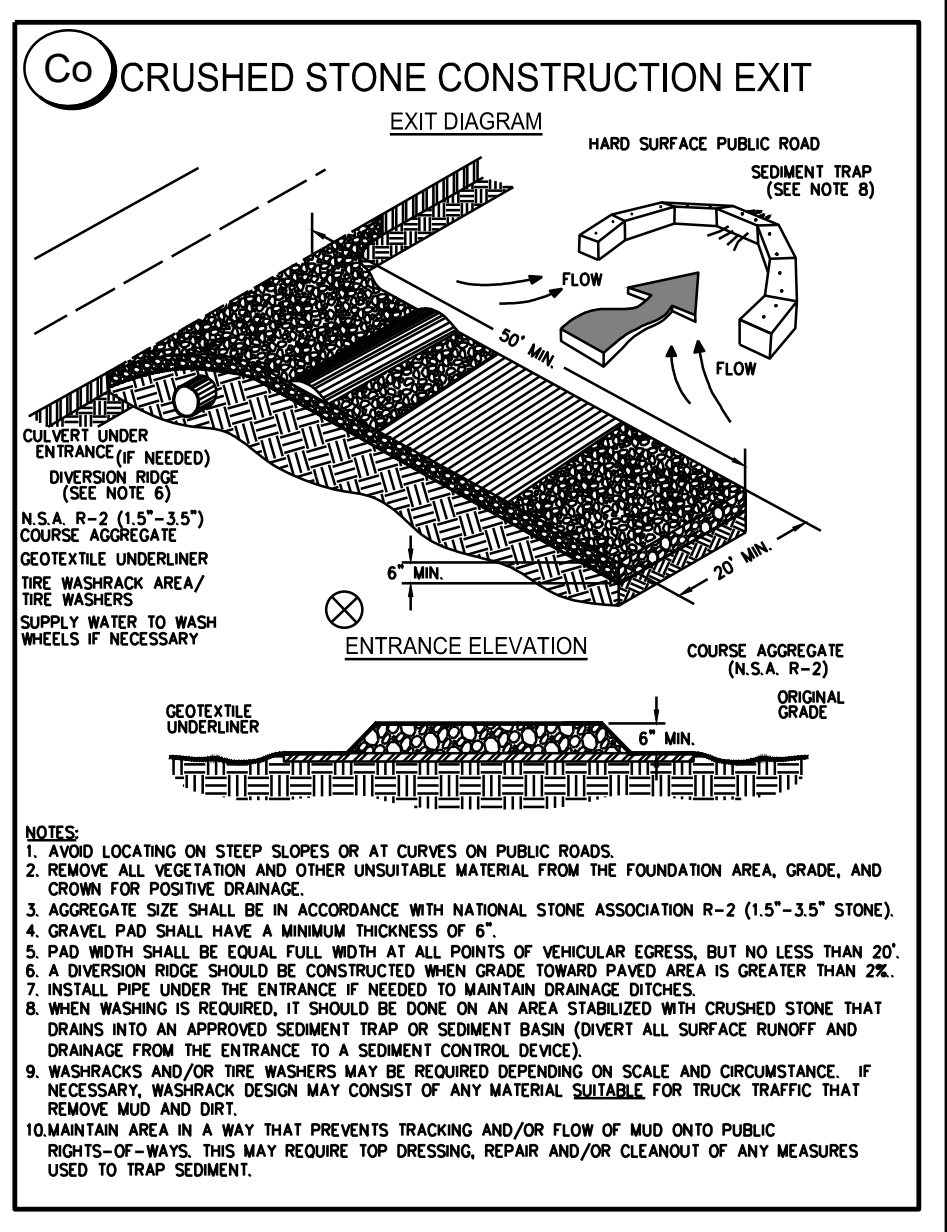
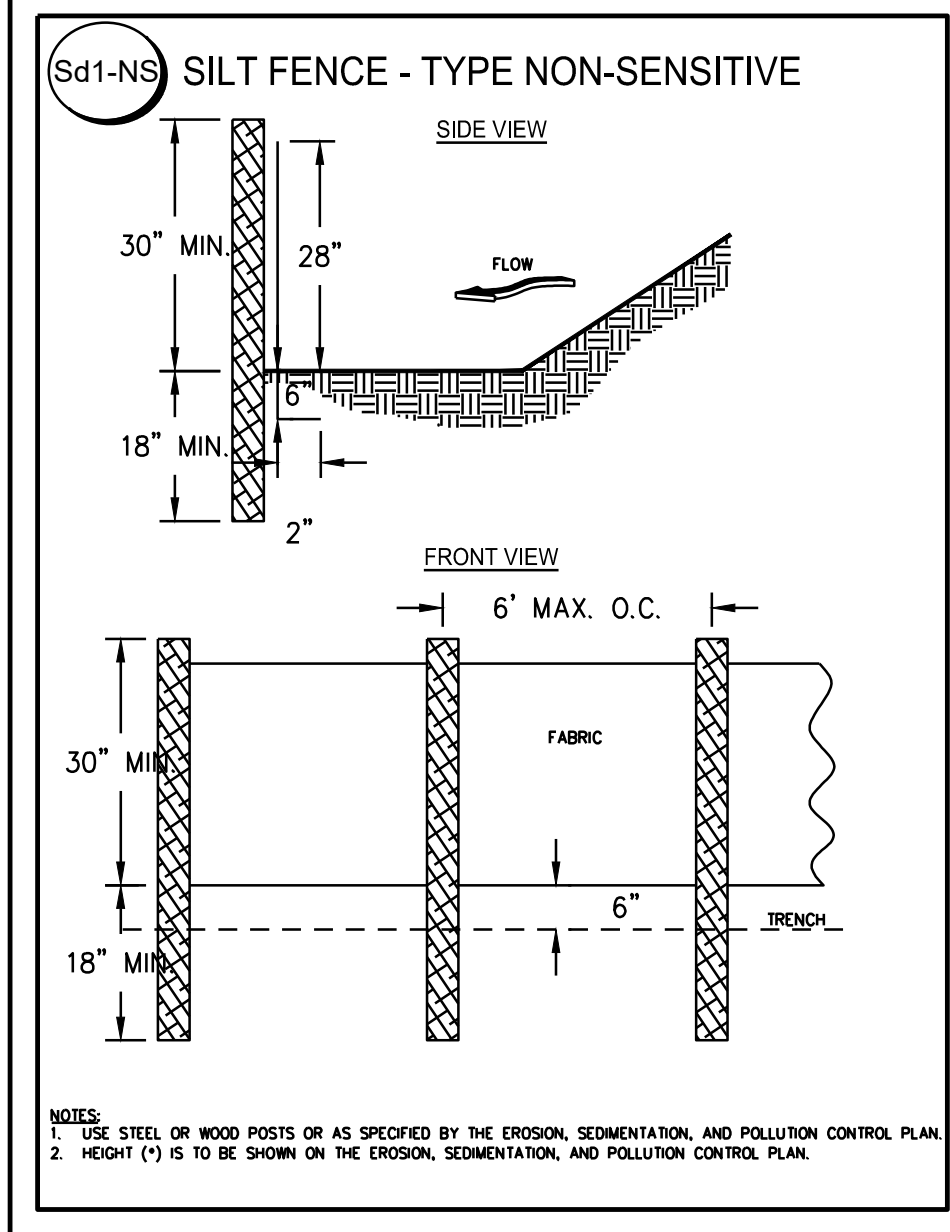
OWNER & DEVELOPER
JACKSON COUNTY GEORGIA
67 ATHENS STREET
JEFFERSON, GA 30549
(706)367-6312

ES&PC PLAN FOR:
JACKSON COUNTY
ANIMAL CONTROL SHELTER
JEFFERSON, GEORGIA

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GMD	245	CITY	JEFFERSON
COUNTY	JACKSON		

DATE
05/16/23
SHEET
C5



Dust Control on Disturbed Areas (Du)

DEFINITION
Controlling surface and air movement of dust on construction sites, roads, and demolition sites.

PURPOSE
To prevent surface and air movement of dust from exposed soil surfaces.

CONDITIONS
This practice is applicable to areas subject to surface and air movement of dust where on and off-site damage may occur without treatment.

METHOD AND MATERIALS

A. Temporary Methods

Mulches. See standard Ds1 - Disturbed Area Stabilization (With Mulching Only). Synthetic resins may be used instead of straw and mulch material. Refer to specification Tac - Tackifiers. Resins should be used according to manufacturer's recommendations.

Vegetative Cover. See specification Ds2 - Disturbed Area Stabilization (With Temporary Seeding).

Spray-on Adhesives. These are used on mineral soils (not effective on muck soils). Keep traffic off these areas. Refer to specification Tac - Tackifiers.

Tillage. This practice is designed to roughen and bring clods to the surface. It is an emergency practice.

GWCC 2016 Edition 655

Disturbed Area Stabilization (With Mulching Only) (Ds1)

DEFINITION
Applying plant residues or other suitable materials, produced on the site if possible, to the soil surface.

PURPOSE
To reduce runoff and erosion
To conserve moisture
To prevent surface compaction or crusting
To control undesirable vegetation
To modify soil temperature
To increase biological activity in the soil

REQUIREMENT FOR REGULATORY COMPLIANCE
Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Mulch can be used as a singular erosion control device for up to six months, but it shall be applied at the appropriate depth, depending on the material used, anchored and have a continuous 90% cover or greater of the soil surface.

Maintenance shall be required to maintain appropriate depth and 90% cover. Temporary vegetation may be employed instead of mulch if the area will remain undisturbed for less than six months.

If any area will remain undisturbed for greater than six months, permanent vegetative techniques shall be employed. Refer to Ds2-Disturbed Area Stabilization (With Temporary Seeding).

GWCC 2016 Edition 627

2. If the area will eventually be covered with permanent vegetation, 20-30 pounds of nitrogen per acre in addition to the normal amount shall be applied to offset the uptake of nitrogen caused by the decomposition of the organic mulches.

3. Polyethylene film on exposed areas.

Anchoring Mulch
1. Straw or hay mulch can be pressed into the soil with a disk harrow with the disk set straight or with a special "tackler disk." Dams may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disk should be dull enough not to cut the mulch but to press it into the soil leaving much of it in an erect position. Straw or hay mulch shall be anchored immediately after application.

Straw or hay mulch spread with special blower-type equipment may be anchored. Tacklers, binders and hydraulic mulch with tackler specifically designed for spreading straw can be substituted for smutted-disk approach. Please refer to specification Tac-Tackifiers. Plastic mesh or netting with mesh no larger than one inch by one inch shall be installed according to manufacturer's specifications.

2. Netting of the appropriate size shall be used to anchor wood waste. Openings of the netting shall not be larger than the average size of the wood waste chips.

3. Polyethylene film shall be anchored trrenched at the top as well as incrementally as necessary.

Applying Mulch
When mulch is used without seeding, mulch shall be applied to provide full coverage of the exposed area.

1. Dry straw or hay mulch and wood chips shall be applied uniformly by hand or by mechanical equipment.

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Concrete Truck Washout (Wo)

NO concrete trucks will be allowed to wash out or discharge surplus concrete or drum wash water onsite.

The washing of ready-mix concrete drums & dump truck bodies used on the project is prohibited on this site. In accordance with Std Specs, 107-Legal Regulations & Responsibility to the Public, only the discharge of water to a storm drain, stream or river. The contractor shall provide a pit outside of State water buffers, at least 25 feet from any water body, including stream, for a wash-pit area. The pit shall be large enough to store all wash-water without overflowing the pit. Wash-water shall be collected and after the wash-water has soaked into the ground, the pit shall be filled in, and ground above shall be graded to match existing conditions.

Never dispose of wash-down water down a storm drain. Wash-down water pit location may be relocated as long as the following apply:

- The pit is located away from a storm drain, stream or river.
- The pit is accessible to the vehicle being used for wash-down.
- The pit has enough volume for wash-down water, and
- Make sure you have permission to use the area for wash-down.

On some sites, you may not have permission or access to a location where pits are not allowed. The Contractor may have to wash-down into a wheel barrow or other container and carry the container for transport to a proper discharge location. Refer to Georgia Environmental Assistance Program's "A Guide for Ready Mix Chute/Hopper Wash-Down."

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Disturbed Area Stabilization (With Temporary Seeding) (Ds2)

DEFINITION
The establishment of temporary vegetative cover with fast growing seedlings for seasonal protection on disturbed or denuded areas.

PURPOSE
To reduce runoff and sediment damage of down stream resources
To protect the soil surface from erosion
To improve wildlife habitat
To improve aesthetics
To improve infiltration and aeration as well as organic matter for permanent plantings

REQUIREMENT FOR REGULATORY COMPLIANCE
Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Temporary grassing, instead of mulch, can be applied to rough graded areas that will be exposed for less than six months. If an area is expected to be undisturbed for longer than six months, permanent perennial vegetation shall be used. If optimum planting conditions for temporary grassing is lacking, mulch can be used as a singular erosion control device for up to six months but it shall be applied at the appropriate depth, anchored, and have a continuous 90% cover or greater of the soil surface. Refer to specification Ds1-Disturbed Area Stabilization (With Temporary Seeding).

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Seeding
Select a grass or grass-legume mixture suitable to the area and season of the year. Seed shall be applied uniformly by hand, cyclone seeder, drill, culti-packer-seeder, or hydraulic seeder (lumpy including seed and fertilizer). Drill or culti-packer seeders should normally place seed one-quarter to one-half inch deep. Appropriate depth of planting is ten times the seed diameter. Soil should be "raked" lightly to cover seed with soil if seeded by hand. See Table 4-1.

Mulching
Temporary vegetation can, in most cases, be established without the use of mulch, provided there is little to no erosion potential. However, the use of mulch can often accelerate and enhance germination and vegetation establishment. Mulch without seeding should be considered for short term protection. Refer to Ds1-Disturbed Area Stabilization (With Mulching Only).

Irrigation
During times of drought, water shall be applied at a rate not causing runoff and erosion. The soil shall be thoroughly wetted to a depth that will insure germination of the seed. Subsequent applications should be made when needed.

Lime and Fertilizer
Agricultural lime is required unless soil tests indicate otherwise. Apply agricultural lime at a rate determined by soil test for pH. Quick acting lime should be incorporated to modify pH during the germination period. Bio stimulants should also be considered when there is less than 3% organic matter in the soil. Graded areas require lime application. Soils must be tested to determine required amounts of fertilizer and amendments. Fertilizer should be applied before land preparation and incorporated with a disk, ripper, or chisel. On slopes too steep for, or inaccessible to equipment, fertilizer shall be hydraulically applied, preferably in the first pass with seed and some hydraulic mulch, then topped with the remaining required application rate.

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Table 4-1 - Temporary Cover or Companion Cover Plants

Species	Broadcast Rates	Planting Dates by Resource Area	Remarks
GRASSY PERENNIALS	3 lbs. (144 lbs)	J, F, M, A, M, J, J, A, S, O, N, D	14,000 seed per pound. May be used on productive soils.
GRASSY PERENNIALS	4 lbs. (192 lbs)	J, F, M, A, M, J, J, A, S, O, N, D	200,000 seed per pound. May be used for areas with low erosion potential.
GRASSY PERENNIALS	4 lbs. (192 lbs)	J, F, M, A, M, J, J, A, S, O, N, D	1,000,000 seed per pound. May be used for areas with low erosion potential.
GRASSY PERENNIALS	4 lbs. (192 lbs)	J, F, M, A, M, J, J, A, S, O, N, D	100,000 seed per pound. Good for droughty soils.
GRASSY PERENNIALS	4 lbs. (192 lbs)	J, F, M, A, M, J, J, A, S, O, N, D	100,000 seed per pound. Good for droughty soils.
GRASSY PERENNIALS	4 lbs. (192 lbs)	J, F, M, A, M, J, J, A, S, O, N, D	100,000 seed per pound. Good for droughty soils.
GRASSY PERENNIALS	4 lbs. (192 lbs)	J, F, M, A, M, J, J, A, S, O, N, D	100,000 seed per pound. Good for droughty soils.
GRASSY PERENNIALS	4 lbs. (192 lbs)	J, F, M, A, M, J, J, A, S, O, N, D	100,000 seed per pound. Good for droughty soils.
GRASSY PERENNIALS	4 lbs. (192 lbs)	J, F, M, A, M, J, J, A, S, O, N, D	100,000 seed per pound. Good for droughty soils.
GRASSY PERENNIALS	4 lbs. (192 lbs)	J, F, M, A, M, J, J, A, S, O, N, D	100,000 seed per pound. Good for droughty soils.

Table 4-1 - Temporary Cover or Companion Cover Plants (Continued)

Species	Broadcast Rates	Planting Dates by Resource Area	Remarks
GRASSY PERENNIALS	4 lbs. (192 lbs)	J, F, M, A, M, J, J, A, S, O, N, D	100,000 seed per pound. Good for droughty soils.
GRASSY PERENNIALS	4 lbs. (192 lbs)	J, F, M, A, M, J, J, A, S, O, N, D	100,000 seed per pound. Good for droughty soils.
GRASSY PERENNIALS	4 lbs. (192 lbs)	J, F, M, A, M, J, J, A, S, O, N, D	100,000 seed per pound. Good for droughty soils.
GRASSY PERENNIALS	4 lbs. (192 lbs)	J, F, M, A, M, J, J, A, S, O, N, D	100,000 seed per pound. Good for droughty soils.
GRASSY PERENNIALS	4 lbs. (192 lbs)	J, F, M, A, M, J, J, A, S, O, N, D	100,000 seed per pound. Good for droughty soils.
GRASSY PERENNIALS	4 lbs. (192 lbs)	J, F, M, A, M, J, J, A, S, O, N, D	100,000 seed per pound. Good for droughty soils.
GRASSY PERENNIALS	4 lbs. (192 lbs)	J, F, M, A, M, J, J, A, S, O, N, D	100,000 seed per pound. Good for droughty soils.
GRASSY PERENNIALS	4 lbs. (192 lbs)	J, F, M, A, M, J, J, A, S, O, N, D	100,000 seed per pound. Good for droughty soils.
GRASSY PERENNIALS	4 lbs. (192 lbs)	J, F, M, A, M, J, J, A, S, O, N, D	100,000 seed per pound. Good for droughty soils.
GRASSY PERENNIALS	4 lbs. (192 lbs)	J, F, M, A, M, J, J, A, S, O, N, D	100,000 seed per pound. Good for droughty soils.

Table 4-1 - Temporary Cover or Companion Cover Plants (Continued)

Species	Broadcast Rates	Planting Dates by Resource Area	Remarks
GRASSY PERENNIALS	4 lbs. (192 lbs)	J, F, M, A, M, J, J, A, S, O, N, D	100,000 seed per pound. Good for droughty soils.
GRASSY PERENNIALS	4 lbs. (192 lbs)	J, F, M, A, M, J, J, A, S, O, N, D	100,000 seed per pound. Good for droughty soils.
GRASSY PERENNIALS	4 lbs. (192 lbs)	J, F, M, A, M, J, J, A, S, O, N, D	100,000 seed per pound. Good for droughty soils.
GRASSY PERENNIALS	4 lbs. (192 lbs)	J, F, M, A, M, J, J, A, S, O, N, D	100,000 seed per pound. Good for droughty soils.
GRASSY PERENNIALS	4 lbs. (192 lbs)	J, F, M, A, M, J, J, A, S, O, N, D	100,000 seed per pound. Good for droughty soils.
GRASSY PERENNIALS	4 lbs. (192 lbs)	J, F, M, A, M, J, J, A, S, O, N, D	100,000 seed per pound. Good for droughty soils.
GRASSY PERENNIALS	4 lbs. (192 lbs)	J, F, M, A, M, J, J, A, S, O, N, D	100,000 seed per pound. Good for droughty soils.
GRASSY PERENNIALS	4 lbs. (192 lbs)	J, F, M, A, M, J, J, A, S, O, N, D	100,000 seed per pound. Good for droughty soils.
GRASSY PERENNIALS	4 lbs. (192 lbs)	J, F, M, A, M, J, J, A, S, O, N, D	100,000 seed per pound. Good for droughty soils.
GRASSY PERENNIALS	4 lbs. (192 lbs)	J, F, M, A, M, J, J, A, S, O, N, D	100,000 seed per pound. Good for droughty soils.

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STORMWATER POLLUTION PREVENTION POST-CONSTRUCTION:

During construction the existing extended detention ponds will have the following maintenance:

- Remove excessive vegetation, including trees, from pond and/or dam.
- Remove accumulated sediment, if any, in pond.
- Permanently stabilize all disturbed areas.
- Repair/replace all stormwater outlets (SI).
- Ponds must be restored to meet or exceed the original design criteria.

Items performed:

Maintenance and reconstruction of the existing extended detention ponds will reduce pollutant loading leaving the site once construction is complete through gravitational settling and biological uptake. The forebays will function to filter pollutants out of the stormwater runoff before it reaches the ponds.

NON-STORM WATER DISCHARGES:

All non-storm water discharges will be routed through on site BMPs and the storm water management system where possible. These discharges include flushing of water and fire lines, irrigation water, ground water, dewatering of pits or depressions within the construction site and rinse off water of non-toxic materials.

NO WASTE WILL BE DISPOSED OF INTO STORM WATER INLETS OR WATERS OF THE STATE

CONSTRUCTION, HAZARDOUS, AND SANITARY WASTE:

Locate waste collection areas away from streets, gutters, watercourses and storm drains. Waste collection areas, such as dumpsters, are often best located near construction site entrances to minimize traffic on disturbed soils. The Plan should include secondary containment around liquid waste collection areas to further minimize the likelihood of contaminated discharges. Waste collection areas to be discharged to waters of the State, except as authorized by a Section 404 WAIVER.

All waste materials will be collected and stored in a securely lidded metal dumpster. The dumpster will meet all solid waste management regulations. All trash and construction debris from the site will be deposited in the dumpster. The dumpster will be emptied a minimum of once per week or more often if necessary and trash will be hauled as required by local regulations. No construction waste will be buried onsite, permit.

All personnel will be instructed on proper procedures for waste disposal. A notice stating these practices will be posted at the jobsite and the Contractor will be responsible for seeing that these procedures are followed.

HAZARDOUS

All hazardous waste materials will be disposed of in the manner specified by local, state, and/or federal regulations and by the manufacturer of such products. The job site superintendent, who will also be responsible for seeing that these practices are followed, will instruct site personnel in these practices. Material Safety Data Sheets (MSDS's) for each substance with hazardous properties that is used on the job site will be obtained and used for the proper management of potential wastes that may result from these products. An MSDS will be posted in the immediate area where such product is stored and/or used and another copy of each MSDS will be maintained in the ESPCP file at the job site construction trailer office. Each employee who must handle a substance with hazardous properties will be instructed on the use of MSDS sheets and the specific information in the applicable MSDS for the product he/she is using particularly regarding spill control techniques.

The contractor will implement the Spill Prevention Control and Countermeasures (SPCC) Plan found within this ESPCP and will train all personnel in the proper cleanup and handling of spilled materials. No spilled hazardous materials or hazardous wastes will be allowed to come in contact with storm water discharges. If such contact occurs, the storm water discharge will be contained on site until appropriate measures in compliance with state and federal regulations are taken to dispose of such contaminated storm water. It shall be the responsibility of the job site superintendent to properly train all personnel in the use of the SPCC plan.

SANITARY

A minimum of one portable sanitary unit will be provided for every ten (10) workers on the site. All sanitary waste will be collected from the portable units a minimum of one time per week by a licensed portable facility provider in complete compliance with local and state regulations.

All sanitary waste units will be located in an area where the likelihood of the unit contributing to storm water discharge is negligible. Additional containment BMP's must be implemented such as gravel bags or specially designed plastic skid containers around the base to prevent wastes from contributing to storm water discharges. The contractor must identify the location of sanitary waste units on the Intermediate Erosion Control Plan Grading Phase once the locations have been determined.

Sanitary sewer waste water treatment will be provided by Municipal Authority/Septic System at the completion of this Project.

OFFSITE VEHICLE TRACKING

A stabilized construction exit has been provided to help reduce vehicle tracking of sediment. The paved street adjacent to the site exit will be inspected daily for tracking of mud, dirt or rock. Dump trucks hauling material from the construction site will be covered.

SPILL PREVENTION PLAN:

The following materials are expected onsite during construction: Concrete products, asphalt, petroleum based fuels and lubricants for equipment, tar, metal building materials, lumber, sheet rock, floor coverings, electrical wire and fixtures, paints/stains/finishing treatments, point solvents, additives for soil stabilization, cleaning solvents, pesticides, fertilizers, herbicides, crushed stone, plastic and metal pipes.

Practices such as good housekeeping, proper handling of hazardous products and proper spill control practices will be followed to reduce the risk of spills and spills from discharging into storm water runoff.

GOOD HOUSEKEEPING

- Quantities of products stored onsite will be limited to the amount needed for the job.
- Products and materials will be stored in a neat, orderly manner in appropriate containers protected from rainfall, where possible.
- Products will be kept in their original containers with manufacturer labels legible and visible.
- Product mixing, disposal and disposal of product containers will be according to the manufacturer's recommendations.
- The Contractor will inspect such materials to ensure proper use, storage and disposal.

PETROLEUM BASED PRODUCTS

Containers for products such as fuels, lubricants and tars will be inspected daily for leaks and spills. This includes on-site vehicle and machinery daily inspections and regular preventive maintenance of such equipment. Equipment maintenance areas will be located away from state water, natural drains and storm water drainage inlets. In addition, temporary fueling tanks shall have a secondary containment liner to prevent/minimize site contamination. Discharge of oils, fuels and lubricants is prohibited. Proper disposal methods will include collection in a suitable container and disposal as required by local and State regulations.

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EROSION CONTROL DETAILS & NOTES FOR:
JACKSON COUNTY
ANIMAL CONTROL SHELTER
JEFFERSON, GEORGIA

GMD COUNTY JACKSON CITY JEFFERSON

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DATE
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SHEET
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REVISIONS	DATE

Disturbed Area Stabilization (With Permanent Vegetation)

D63



DEFINITION
The planting of perennial vegetation such as trees, shrubs, vines, grasses, or legumes on exposed areas for final permanent stabilization. Permanent perennial vegetation shall be used to achieve final stabilization.

PURPOSE
• To protect the soil surface from erosion
• To reduce damage from sediment and runoff to down-stream areas
• To improve wildlife habitat and visual resources
• To improve aesthetics

REQUIREMENT FOR REGULATORY COMPLIANCE
This practice shall be applied immediately to rough graded areas that will be undisturbed for longer than six months. This practice or sodding shall be applied immediately to all areas at final grade. Final Stabilization means that all soil disturbing activities at the site have been completed, and that for unpaired areas and areas not covered by permanent structures and areas located outside the waste disposal limits of a landfill cell that has been certified by the GA EPCO for waste disposal. 100% of the soil surface is uniformly covered in permanent vegetation with a density of 70% or greater, or landscaped according to the Plan (uniformly covered with landscaping materials in planned landscaped areas), or equivalent permanent stabilization measures.

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Permanent vegetation shall consist of planted trees, shrubs, perennial vines, or a crop of perennial vegetation appropriate for the region, such that within the growing season a 70% coverage by perennial vegetation shall be achieved. Final stabilization applies to each phase of construction. For linear construction projects on land used for agricultural or silvicultural purposes, final stabilization may be accomplished by stabilizing the disturbed land for its agricultural or silvicultural use. Until this standard is satisfied and permanent control measures and facilities are operational, interim stabilization measures and temporary erosion and sedimentation control measures shall not be removed.

CONDITIONS
Permanent perennial vegetation is used to provide a protective cover for exposed areas including cuts, fills, dams, and other denuded areas.

PLANNING CONSIDERATIONS

- Use conventional planting methods where possible.
- When mixed plantings are done during marginal planting periods, companion crops shall be used.
- No-till planting is effective when planting is done following a summer or winter annual cover crop. Sericea Lespedeza planted no-till into stands of rye is an excellent procedure.
- Block sod provides immediate cover. It is especially effective in controlling erosion adjacent to concrete flumes and other structures. Refer to Specification D64-Disturbed Area Stabilization (With Sodding).
- Irrigation should be used when the soil is dry or when summer plantings are done.
- Low maintenance plants, as well as natives, should be used to ensure long-lasting erosion control.
- Mowing should not be performed during the quail nesting season (May to September).
- Wildlife plantings should be included in critical area plantings.

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Wildlife Plantings

Commercially available plants beneficial to wildlife species include the following:
Most Bearing Trees
Beech, Black Cherry, Blackgum, Chestnut, Chickpea, Hackberry, Hickory, Honey Locust, Native Oak, Persimmon, Sawtooth Oak and Sweetgum.
All trees that produce nuts or fruits are favored by many game species. Hickory provides nuts used mainly by squirrels and bear.

Shrubs and Small Trees

Bayberry, Bicolor Lespedeza, Crabapple, Dogwood, Huckleberry or Native Blueberry, Mountain Laurel, Native Holly, Red Cedar, Red Mulberry, Sumac, Wax Myrtle, Wild Plum and Blackberry.

Plant in patches without tall trees to develop stable shrub communities. All produce fruits used by many kinds of wildlife, except for Lespedeza that produces seeds used by quail and songbirds.
Grasses, Legumes, Vines and Temporary Cover
Bahiagrass, Bermudagrass, Grass-Legume mixtures, Partridge Pea, Annual Lespedeza, Orchardgrass (for mountains), Browntop Millet (for temporary cover), and Native grapes.
Provides herbaceous cover in clearings for a game bird brood-rearing habitat. Appropriate legumes such as vetches, clovers, and Lespedeza may be mixed with grass, but they may die out after a few years.

CONSTRUCTION SPECIFICATIONS

Grading and Shaping
Grading and shaping may not be required where hydraulic seeding and fertilizing equipment is to be used. Vertical banks shall be sloped to enable plant establishment.
When conventional seeding and fertilizing are to be done, grade and shape where feasible and practical, so that equipment can be used safely and efficiently during seedbed preparation, seeding, mulching and maintenance of the vegetation.
Concentrations of water that will cause excessive

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soil erosion shall be diverted to a safe outlet. Diversion and other treatment practices shall conform with the appropriate standards and specifications.

Lime and Fertilizer Rates and Analysis
Agricultural lime is required at the rate of one to two tons per acre unless soil tests indicate otherwise. Graded areas require lime application. If lime is applied within six months of planting permanent perennial vegetation, additional lime is not required. Agricultural lime shall be within the specifications of the Georgia Department of Agriculture.
Lime spread by conventional equipment shall be "ground limestone." Ground limestone is calcitic or dolomitic limestone ground so that 90 percent of the material will pass through a 10-mesh sieve, not less than 50 percent will pass through a 50-mesh sieve and not less than 25 percent will pass through a 100-mesh sieve.
Fast-acting lime spread by hydraulic seeding equipment should be "finely ground limestone" spanning from the 180 micron size to the 5 micron size. Finely ground limestone is calcitic or dolomitic limestone ground so that 95 percent of the material will pass through a 100-mesh sieve.
It is desirable to use dolomitic limestone in the Sand Hills, Southern Coastal Plain and Atlantic Coast Flatwoods MLRAs. (See Figure 6-4.1.)
Agricultural lime is generally not required where only trees are planted.
Initial fertilizing, nitrogen, topdressing, and maintenance fertilizer requirements for each species or combination of species are listed in Table 6-5.1.

Lime and Fertilizer Application
When hydraulic seeding equipment is used, the initial fertilizer shall be mixed with seed, inoculant (if needed), and wood cellulose or wood pulp fiber mulch and applied in a slurry mixture. The inoculant, if needed, shall be mixed with the seed prior to being placed into the hydraulic seeder. The slurry mixture will be agitated during application to keep the ingredients thoroughly mixed. The mixture will be spread uniformly over the area within one hour after being placed in the

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Hydroseeder.

Finely ground limestone can be applied in the much slurry or combination with the top dressing. When conventional planting is to be done, lime and fertilizer shall be applied uniformly in one of the following ways:

- Mix before land preparation so that it will be applied with the soil during seedbed preparation.
- Mix with the soil used to fill the holes, distribute in furrows.
- Broadcast after steep surfaces are scarified, tilled or trenched.
- A fertilizer pellet shall be placed at root depth in the closing hole beside each pine tree seeding.

Plant Selection
Refer to Tables 6-4.1, 6-5.2, 6-5.3 and 6-5.4 for approved species. Species not listed shall be approved by the State Resource Conservation of the Natural Resources Conservation Service before they are used.
Plants shall be selected on the basis of species characteristics, site and soil conditions, planned use and maintenance of the area, time of year of planting, method of planting, and the needs and desires of the land user.
Some perennial species are easily established and can be planted alone. Examples of these are Common Bermuda, Tall Fescue, and Weeping Lovegrass.
Other perennials, such as Bahiagrass and Sericea Lespedeza, are slow to become established and should be planted with another perennial species. The additional species will provide quick cover and soil protection until the target perennial species become established. For example, Common seeding combinations are 1) Weeping Lovegrass with Sericea Lespedeza (scarified) and 2) Tall Fescue with Sericea Lespedeza (unscarified).
Plant selection may also include annual companion crops. Annual companion crops should be used only when the perennial species are not planted during their optimum planting period. A common

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mixture is Brown Top Millet with Common Bermuda in mid-summer. Care should be taken in selecting companion crop species and seeding rates because annual crops will compete with perennial species for water, nutrients, and growing space. A high seeding rate of the companion crop may prevent the establishment of perennial species.
Ryegrass shall not be used in any seeding mixtures containing perennial species due to its ability to out-compete desired species chosen for permanent perennial cover.

Seed Quality
The term "pure live seed" is used to express the quality of seed and is not shown on the label. Pure live seed, PLS, is expressed as a percentage of the seeds that are pure and will germinate. Information on percent germination and purity can be found on seed tags. PLS is determined by multiplying the percent of pure seed with the percent of germination, i.e.,
(PLS = % germination x % purity)
EXAMPLE:
Common Bermuda seed
70% germination, 80% purity
PLS = 56%

The percent of PLS helps you determine the amount of seed you need. If the seeding rate is 10 pounds PLS and the bulk seed is 56% PLS, the bulk seeding rate is:
10 lbs. PLS/acre = 17.9 lbs/acre
56% PLS
You would need to plant 17.9 lbs/acre to provide 10 lbs/acre of pure live seed.
Seedbed Preparation
Seedbed preparation may not be required where hydraulic seeding and fertilizing equipment is to be used (but is strongly recommended for any seeding process, when possible). When conventional seeding is to be used, seedbed preparation will be done as follows:

- Tillage, at a minimum, shall adequately

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loosen the soil to a depth of 4 to 6 inches; alleviate compaction; incorporate lime and fertilizer; smooth and firm the soil; allow for the proper placement of seed, sprigs, or plants; and allow for the anchoring of soil or hay mulch if a disk is to be used.

- Tillage may be done with any suitable equipment.
- Tillage should be done on the contour where feasible.
- On slopes too steep for the safe operation of tillage equipment, the soil surface shall be pitted or trenched across the slope with appropriate hand tools to provide two places 6 to 8 inches apart in which seed may lodge and germinate. Hydraulic seeding may also be used.

Individual Plants

- Where individual plants are to be set, the soil shall be prepared by excavating holes, opening furrows, or dibble planting.
- For nursery stock plants, holes shall be large enough to accommodate roots without crowding.
- Where pine seedlings are to be planted, subsoil under the row 36 inches deep on the contour four to six months prior to planting. Subsoiling should be done when the soil is dry, preferably in August or September.

Inoculants
All legume seed shall be inoculated with appropriate nitrogen-fixing bacteria. The inoculant shall be a pure culture prepared specifically for the seed species and used within the dates on the container.
A mixing medium recommended by the manufacturer shall be used to bond the inoculant to the seed. For conventional seeding, use twice the amount of inoculant recommended by the manufacturer. For hydraulic seeding, four times the amount of inoculant recommended by the manufacturer shall be used.
All inoculated seed shall be protected from the sun and high temperatures and shall be planted

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the same day inoculated. No inoculated seed shall remain in the hydroseeder longer than one hour.

Planting
Hydraulic Seeding
The seed should be inoculated (if needed), fertilizer, and wood cellulose or wood pulp fiber mulch with water and apply in a slurry uniformly over the area to be treated. Apply within one hour after the mixture is made.
Conventional Seeding
Seeding will be done on a freshly prepared and firmed seedbed. For broadcast planting, use a bulk-packer seeder, drill, rotary seeder, other mechanical seeder, or hand seeding to distribute the seed uniformly over the area to be treated. Cover the seed lightly with 1/8 to 1/4 inch of soil for small seed and 1/2 to 1 inch for large seed when using a cultipacker or other suitable equipment.
No-Till Seeding
No-till seeding is permissible into annual cover crops when planting is done following maturity of the cover crop or if the temporary cover stand is sparse enough to allow adequate growth of the permanent (perennial) species. No-till seeding shall be done with appropriate no-till seeding equipment. The seed must be uniformly distributed and planted at the proper depth.

Individual Plants
Shrubs, vines and sprigs may be planted with appropriate planters or hand tools. Pine trees shall be planted manually in the subsoil furrow. Each plant shall be set in a manner that will avoid crowding the tops.
Nursery stock plants shall be planted at the same depth or slightly deeper than they were at the nursery. The tips of vines and sprigs must be at or slightly above the ground surface.
Where individual holes are dug, fertilizer shall be placed in the bottom of the hole. Two inches of soil shall be added and the plant shall be set in the hole.

Mulching
Mulch is required for all permanent vegetation applications. Mulch applied to seeded areas shall achieve 75% to 100% soil cover. When selecting a mulch, design professionals should consider the mulch's functional longevity, vegetation establishment, and erosion control.

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ion establishment enhancement, and erosion control effectiveness. Select the mulching material from the following and apply as indicated:

- Dry straw or dry hay of good quality and free of weed seeds can be used. Dry straw shall be applied at the rate of 2 tons per acre. Dry hay shall be applied at a rate of 2 1/2 tons per acre.
- Wood cellulose mulch or wood pulp fiber shall be applied at the rate of 500 pounds per acre. Dry straw or dry hay shall be applied (at the rate indicated above) after hydraulic seeding equipment.
- One thousand pounds of wood cellulose or wood pulp fiber, which includes a tackifier, shall be used with hydraulic seeding on slopes 3:4.1 or steeper.
- Serious Lespedeza hay containing mature seed shall be applied at a rate of three tons per acre.
- Pine straw or pine bark shall be applied at a thickness of 3 inches for bedding purposes. Other suitable materials in sufficient quantity may be used where ornamentals or other ground covers are planted. This is not appropriate for seeded areas.
- When using temporary erosion control blankets or block sod, mulch is not required.
- Bluminox treated riving may be applied on planted areas, slopes, in ditches or dry waterways to prevent erosion. Bluminox treated riving shall be applied within 24 hours after an area has been planted. Application rates and materials must meet Georgia Department of Transportation specifications.

Wood cellulose and wood pulp fibers shall not contain germination or growth inhibiting factors. They shall be evenly dispersed when agitated in water. The fibers shall contain a dye to allow visual metering and aid in uniform application during seeding.

Applying Mulch
Straw or hay mulch will be spread uniformly within 24 hours after seeding and/or plant-

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ing. The mulch may be spread by blow-type spreading equipment, other spreading equipment or by hand. Mulch shall be applied to cover 75% of the soil surface.

Anchoring Mulch
Anchor straw or hay mulch immediately after application by one of the following methods:

- Hay and straw mulch shall be pressed into the soil immediately after the mulch is spread. A special "poker disk" or disk harrow with the disks set straight may be used. The disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disks shall be dull enough to press the mulch into the ground without cutting it, leaving much of it in an erect position. Mulch shall not be plowed into the soil.
- Synthetic tackifiers, binders or hydraulic mulch specifically designed to tack straw, shall be applied in conjunction with or immediately after the mulch is spread. Synthetic tackifiers shall be mixed and applied according to manufacturer's specifications. All tackifiers, binders or hydraulic mulch specifically designed to tack straw should be verified nontoxic through EPA2021 D testing. Refer to Tackifiers-Tac.
- Rye or wheat can be included with Fall and Winter plantings to stabilize the mulch. They shall be applied at a rate of one-quarter to one-half bushel per acre.
- Plastic mesh or netting with mesh no larger than one inch by one inch may be needed to anchor straw or hay mulch on unstable soils and concentrated flow areas. These materials shall be installed and anchored according to manufacturer's specifications.

Bedding Material
Mulch is used as a bedding material to conserve moisture and control weeds in nurseries, ornamental beds, around shrubs, and on bare areas on lawns.

6-38

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OWNER & DEVELOPER
JACKSON COUNTY GEORGIA
67 ATHENS STREET
JEFFERSON, GA 30549
(706)367-6312

EROSION CONTROL DETAILS FOR:
JACKSON COUNTY
ANIMAL CONTROL SHELTER
JEFFERSON, GEORGIA

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CITY: JEFFERSON
COUNTY: JACKSON
GMD: 245

DATE: 05/16/23
SHEET: C7

Table 6-5.1 - Permanent Cover Crops
PLANT, PLANTING RATE, AND PLANTING DATE FOR PERMANENT COVER¹

Species	Broadcast Rates	Resource Area ²	Planting Dates by Resource Area	Remarks
Grain straw	4" to 6"			
Grass Hay	4" to 6"			
Pine needles	3" to 5"			
Wood waste	4" to 6"			

Irrigation
Irrigation will be applied at a rate that will not cause runoff.

Topdressing
Topdressing will be applied on all temporary and permanent (perennial) species planted alone or in mixtures with other species. Recommended rates of application are listed in Table 6-5.1.

Second Year and Maintenance Fertilization
Second year fertilizer rates and maintenance fertilizer rates are listed in Table 6-5.1.

Lime Maintenance Application
Apply one ton of agricultural lime every 4 to 6 years or as indicated by soil tests. Soil tests can be conducted to determine more accurate requirements, if desired.

Use and Management
Move Sericea Lespedeza only after frost to ensure that the seeds are mature. Mow between November and March.
Bermudagrass, Bahiagrass and Tall Fescue may be mowed as desired. Maintain at least 6 inches of top growth under any use and management. Moderate use or top growth is beneficial after establishment.
Exclude traffic until the plants are well established. Because of the quail nesting season, mowing should not take place between May and September.

GSWCC 2016 Edition 6-40

Table 6-5.1 - Fertilizer Requirements

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT	RATE	N TOP DRESSING
1. Cool season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 1/2"
	Second	6-12-12	1000 lbs./ac.	30
	Maintenance	10-10-10	400 lbs./ac.	
2. Cool season grasses and legumes	First	6-12-12	1500 lbs./ac.	6-50 lbs./ac. 1"
	Second	0-15-10	1000 lbs./ac.	
	Maintenance	0-15-10	400 lbs./ac.	
3. Ground covers	First	10-10-10	1300 lbs./ac. 3"	
	Second	10-10-10	1300 lbs./ac. 3"	
	Maintenance	10-10-10	1100 lbs./ac.	
4. Pine seedlings	First	20-10-5	one 21-gram pellet per seedling placed in the closing hole	
5. Shrub Lespedeza	First	0-10-10	700 lbs./ac.	
	Maintenance	0-10-10	700 lbs./ac. 4"	
6. Temporary cover crop seeded alone	First	10-10-10	500 lbs./ac.	30 lbs./ac. 5"
7. Warm season grasses	First	6-12-12	1500 lbs./ac.	50-100 lbs./ac. 2/5"
	Second	6-12-12	800 lbs./ac.	50-100 lbs./ac. 2"
	Maintenance	10-10-10	400 lbs./ac.	
8. Warm season grasses and legumes	First	6-12-12	1500 lbs./ac.	50 lbs./ac./5"
	Second	0-10-10	1000 lbs./ac.	
	Maintenance	0-10-10	400 lbs./ac.	

¹ Apply in spring following seeding.
² Apply in soil applications when high rates are used.
³ Apply in 3 split applications.
⁴ Apply when plants are dormant.
⁵ Apply to grass species only.
⁶ Apply when plants grow to a height of 2 to 4 inches.

GSWCC 2016 Edition 6-41

Table 6-5.2 - Permanent Cover Crops
PLANT, PLANTING RATE, AND PLANTING DATE FOR PERMANENT COVER¹

Species	Broadcast Rates	Resource Area ²	Planting Dates by Resource Area	Remarks
BANJA, BENICACOLA Rabbit with other perennials cover	60 lbs. 30 lbs.	1.4 b 0.7 b	P C	100,000 seed per pound. Low growing. Good for erosion control. Plant with other perennials. Use with Sericea Lespedeza. Do not use in riparian areas.
BANJA, WILKINSON Rabbit with other perennials cover	60 lbs. 30 lbs.	1.4 b 0.7 b	M-L P	100,000 seed per pound. Low growing. Good for erosion control. Plant with other perennials. Use with Sericea Lespedeza. Do not use in riparian areas.
Holcus seed alone	10 lbs. 6 lbs.	0.2 b 0.7 b	P C	1,787,000 seed per pound. Quick cover. Good for erosion control. Plant with other perennials. Use with Sericea Lespedeza. Do not use in riparian areas.
with other perennials cover	10 lbs. 6 lbs.	0.2 b 0.7 b	P C	Plant with other perennials.
with other perennials cover	10 lbs. 6 lbs.	0.2 b 0.7 b	P C	Plant with other perennials.

GSWCC 2016 Edition 6-42

Table 6-5.3 - Permanent Cover Crops
PLANT, PLANTING RATE, AND PLANTING DATE FOR PERMANENT COVER¹

Species	Broadcast Rates	Resource Area ²	Planting Dates by Resource Area	Remarks
BENICACOLA GRASS Rabbit with other perennials cover	40 lbs. 20 lbs.	0.5 b 0.2 b	M-L P	100,000 seed per pound. Quick cover. Good for erosion control. Plant with other perennials. Use with Sericea Lespedeza. Do not use in riparian areas.
Common, Common, Midge Gr 1E-44	40 lbs. 20 lbs.	0.5 b 0.2 b	P C	100,000 seed per pound. Quick cover. Good for erosion control. Plant with other perennials. Use with Sericea Lespedeza. Do not use in riparian areas.
Common, Common, 77R-44	40 lbs. 20 lbs.	0.5 b 0.2 b	P C	100,000 seed per pound. Quick cover. Good for erosion control. Plant with other perennials. Use with Sericea Lespedeza. Do not use in riparian areas.
TA-73	40 lbs. 20 lbs.	0.5 b 0.2 b	P C	100,000 seed per pound. Quick cover. Good for erosion control. Plant with other perennials. Use with Sericea Lespedeza. Do not use in riparian areas.
EROSION CONTROL with other perennials cover	15 lbs.	0.3 b	M-L P	100,000 seed per pound. Quick cover. Good for erosion control. Plant with other perennials. Use with Sericea Lespedeza. Do not use in riparian areas.

GSWCC 2016 Edition 6-43

Table 6-5.3 - Permanent Cover Crops
PLANT, PLANTING RATE, AND PLANTING DATE FOR PERMANENT COVER¹

Species	Broadcast Rates	Resource Area ²	Planting Dates by Resource Area	Remarks
PERDUE, HILL Pasture establishment	50 lbs. 30 lbs.	1.1 b 0.7 b	M-L P	227,000 seed per pound. Use alone only on better sites. Mix with perennial legumes or clover. Apply topdressing in spring following fall planting. Not for heavy use areas or athletic fields.
KUDZU Pasture establishment	3"-7" spart		A-L	High and aggressive growth. Excellent in gully erosion control. WE class. Good brushy range.
Plants or covers LESPEDEZA SERICEA Lespedeza cover	60 lbs. 30 lbs.	1.4 b 0.7 b	M-L P C	150,000 seed per pound. Widely adapted. Low maintenance. Mix with Weeping Lovegrass, Common Bermuda, Bahia, or Tall Fescue. Take 2-3 years to become fully established. Excellent on roadbanks. Includes seed with 15% inoculant.
unscarified	75 lbs.	1.7 b	M-L P C	Mix with tall fescue or winter annuals.
scarified	4 lbs. 2 lbs.	0.1 b 0.05 b	M-L P C	Cut when seed reaches 6 inches, but before it matures. Add Tall Fescue or winter annuals.

GSWCC 2016 Edition 6-44

Table 6-5.3 - Permanent Cover Crops
PLANT, PLANTING RATE, AND PLANTING DATE FOR PERMANENT COVER¹

Species	Broadcast Rates	Resource Area ²	Planting Dates by Resource Area	Remarks
LESPEDEZA Rabbit with other perennials cover	60 lbs. 30 lbs.	1.4 b 0.7 b	M-L P C	300,000 seed per pound. Height of growth is 18 to 24 inches. Adaptability in urban or rural areas. Good for erosion control. Use with Sericea Lespedeza. Do not use in riparian areas.
unscarified	75 lbs.	1.7 b	M-L P C	Includes seed with 15% inoculant.
LESPEDEZA, SUPER Lespedeza Rabbit with other perennials cover	3" x 3"		M-L P C	Provides wildlife food and cover.
LODGPOSSAGE, WEEPING Erosion control	4 lbs. 2 lbs.	0.1 b 0.05 b	M-L P C	1,500,000 seed per pound. Quick cover. Excellent erosion control. Use with Sericea Lespedeza or ryegrass.

GSWCC 2016 Edition 6-45

Table 6-5.3 - Permanent Cover Crops
PLANT, PLANTING RATE, AND PLANTING DATE FOR PERMANENT COVER¹

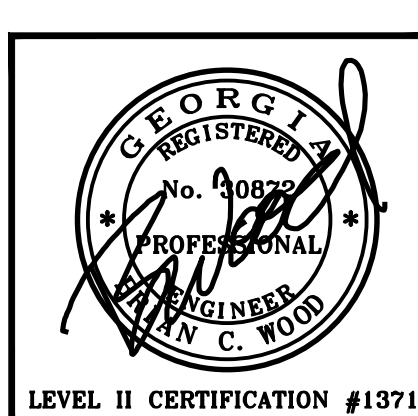
Species	Broadcast Rates	Resource Area ²	Planting Dates by Resource Area	Remarks
MADEIRANESE Pasture establishment	2" x 2" spart	A-L		For very wet sites. Mix with other species. Dig 2-3 inches deep. Use alone on wet banks and shorelines.
PARAGRASS, ATLANTIC CENTRAL Pasture establishment for erosion	20 lbs.	0.5 b	P C	Covers well on coastal sand dunes, borrow pits, and other erosion-prone areas. Good for erosion control. Use with Sericea Lespedeza. Do not use in riparian areas.
RED CANARY GRASS Pasture establishment	50 lbs. 30 lbs.	1.1 b 0.7 b	M-L P C	Dries slowly to Tall fescue.
EROSION CONTROL with other perennials cover	15 lbs.	0.3 b	M-L P C	227,000 seed per pound. Mix with Weeping Lovegrass or other low-growing species.

GSWCC 2016 Edition 6-46

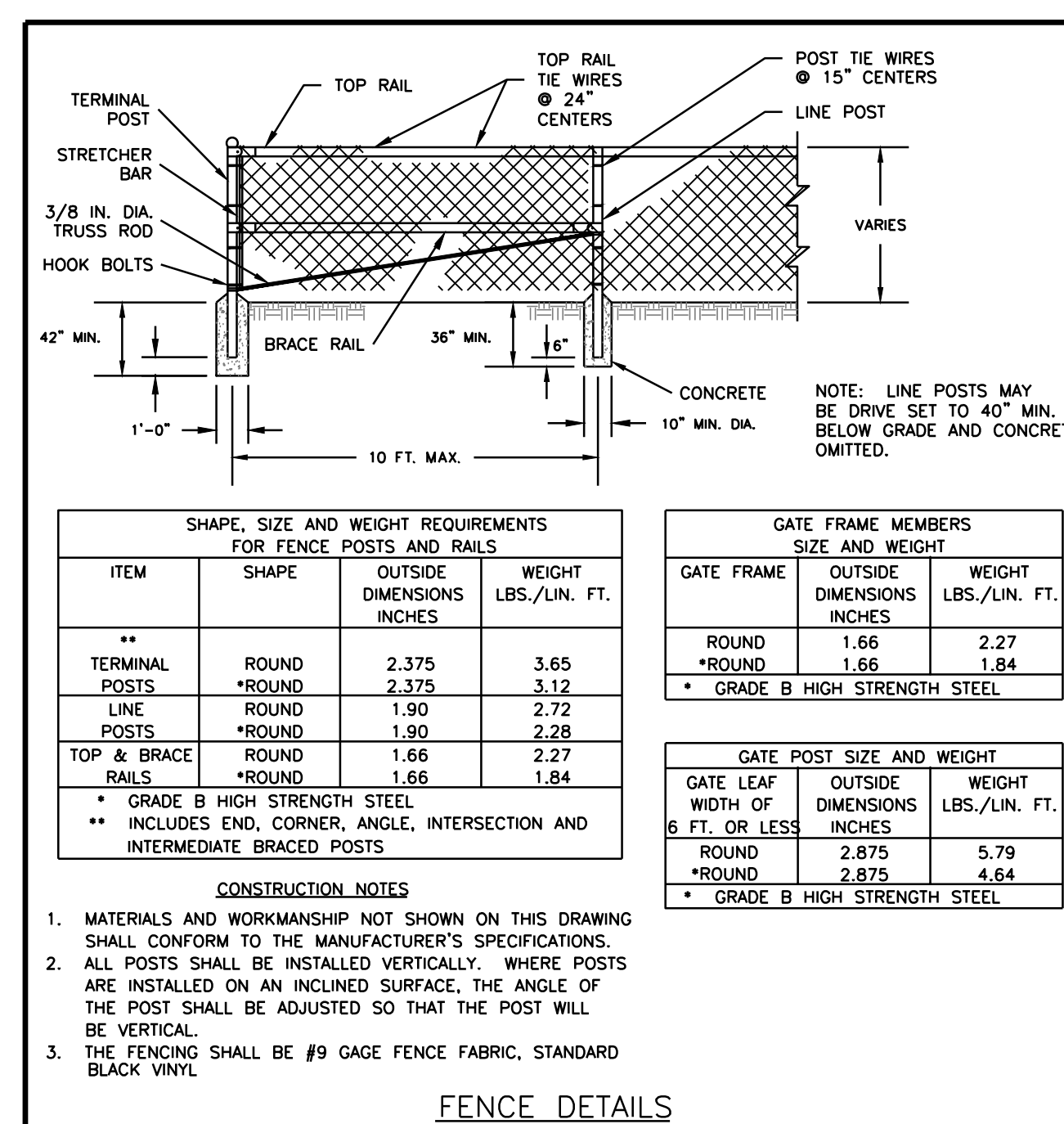
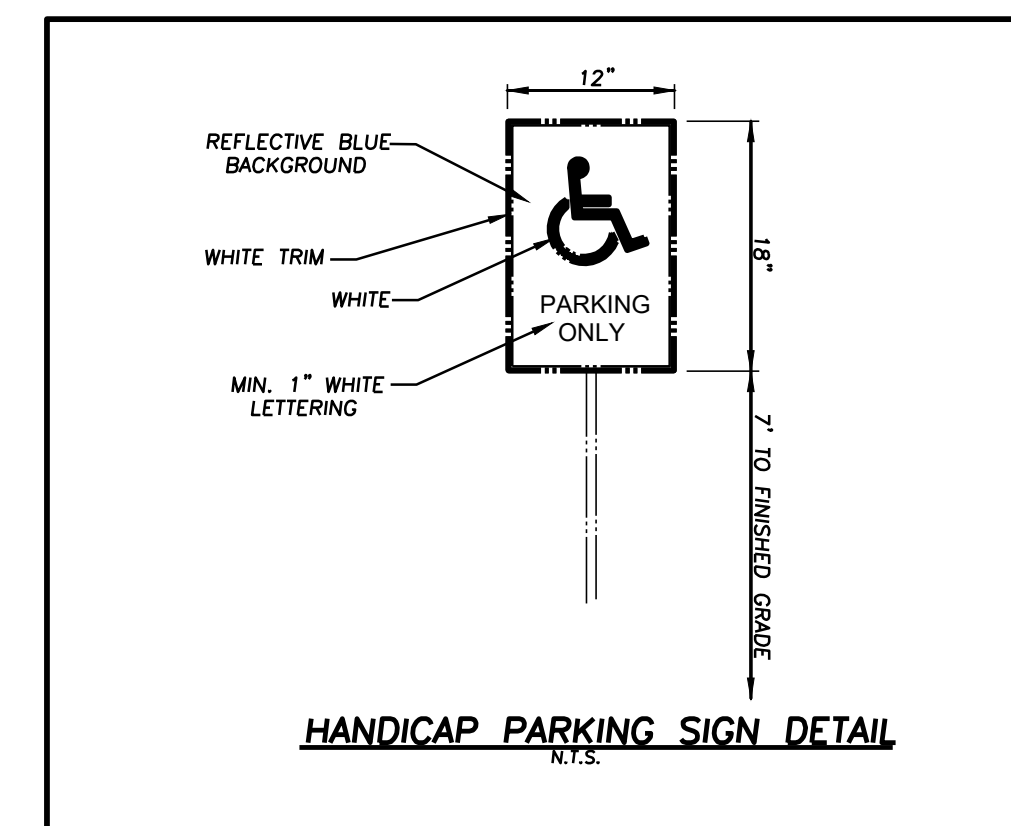
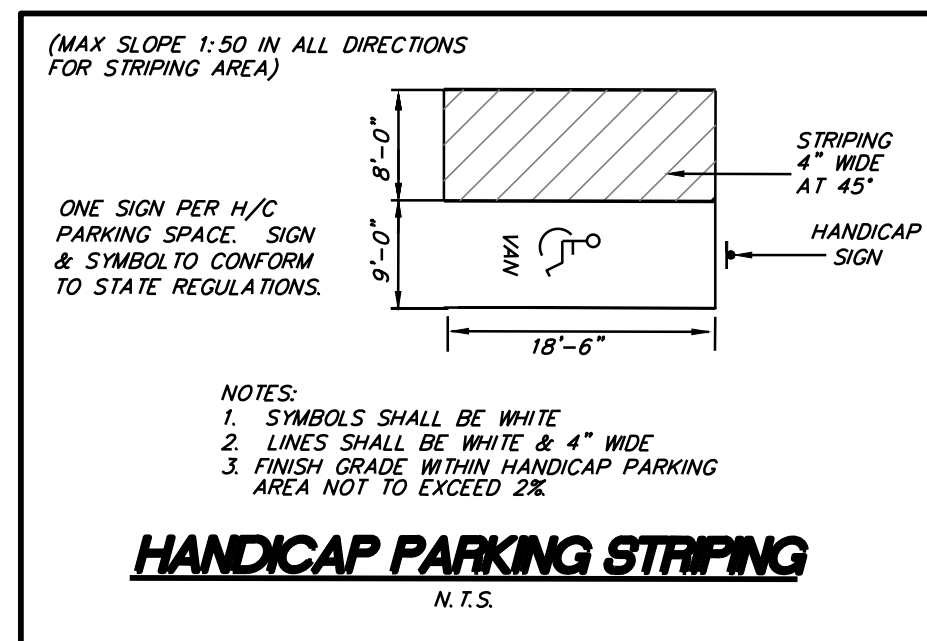
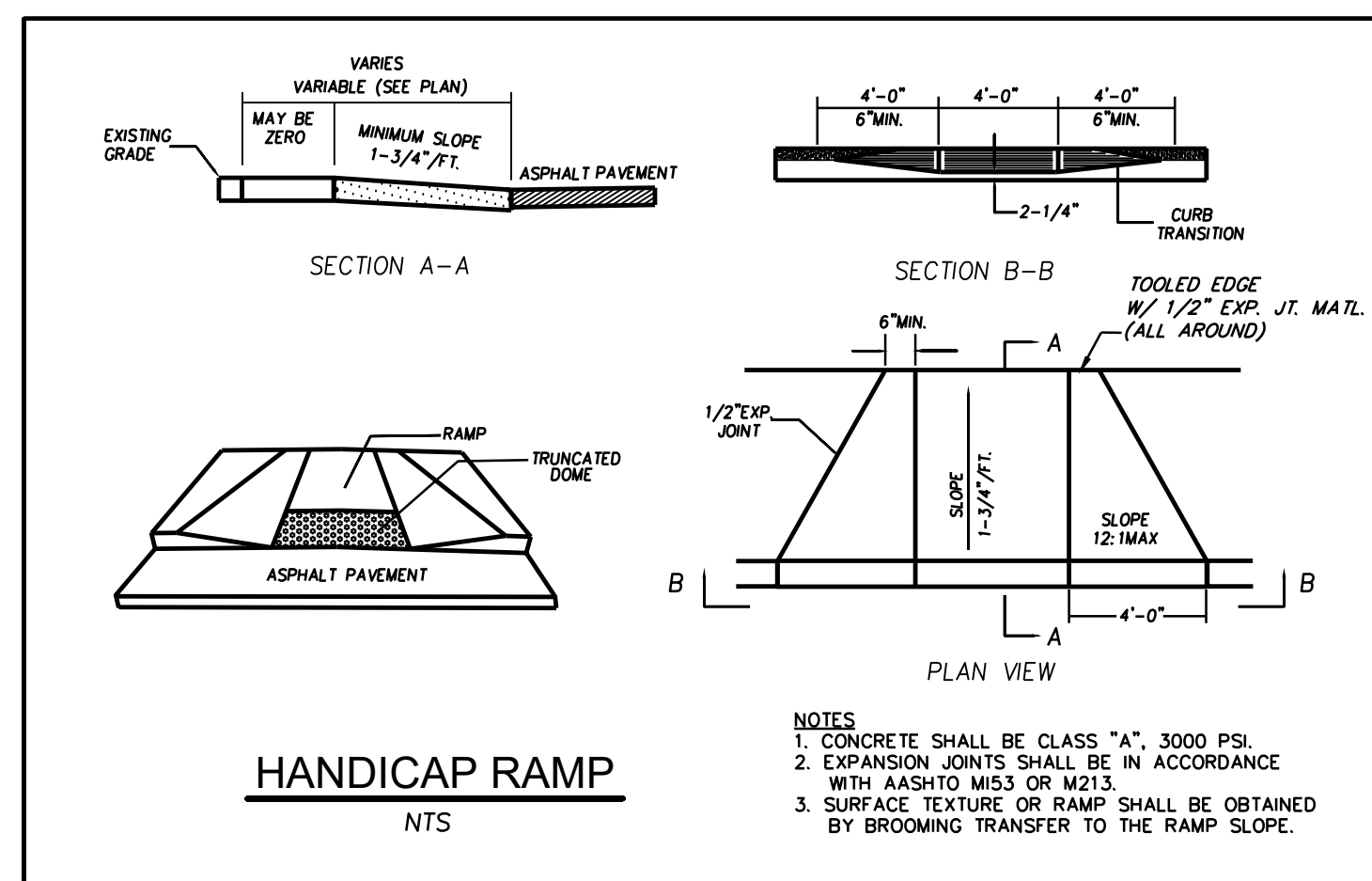
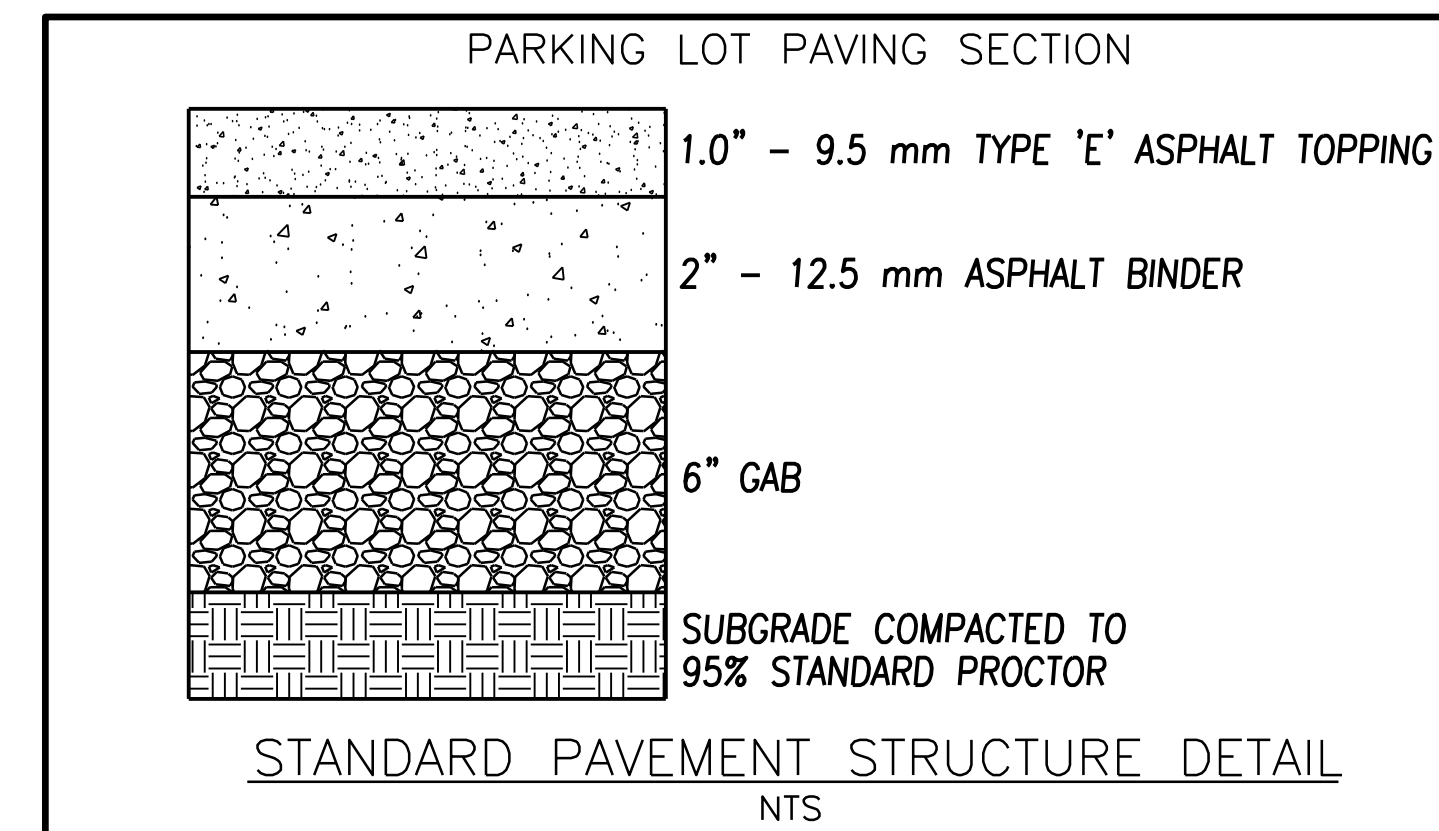
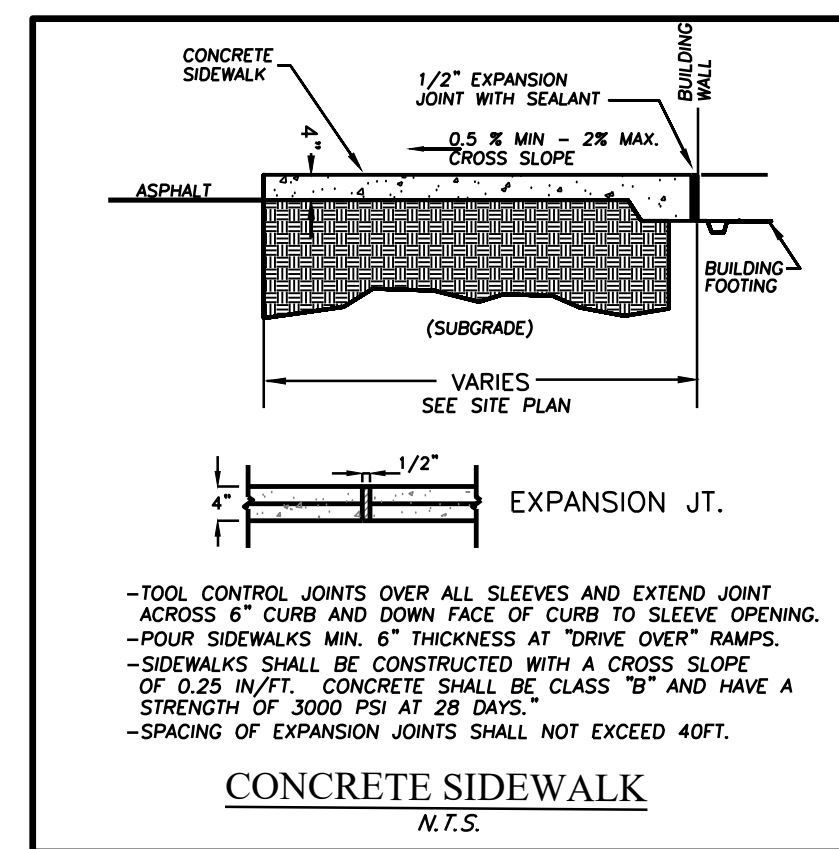
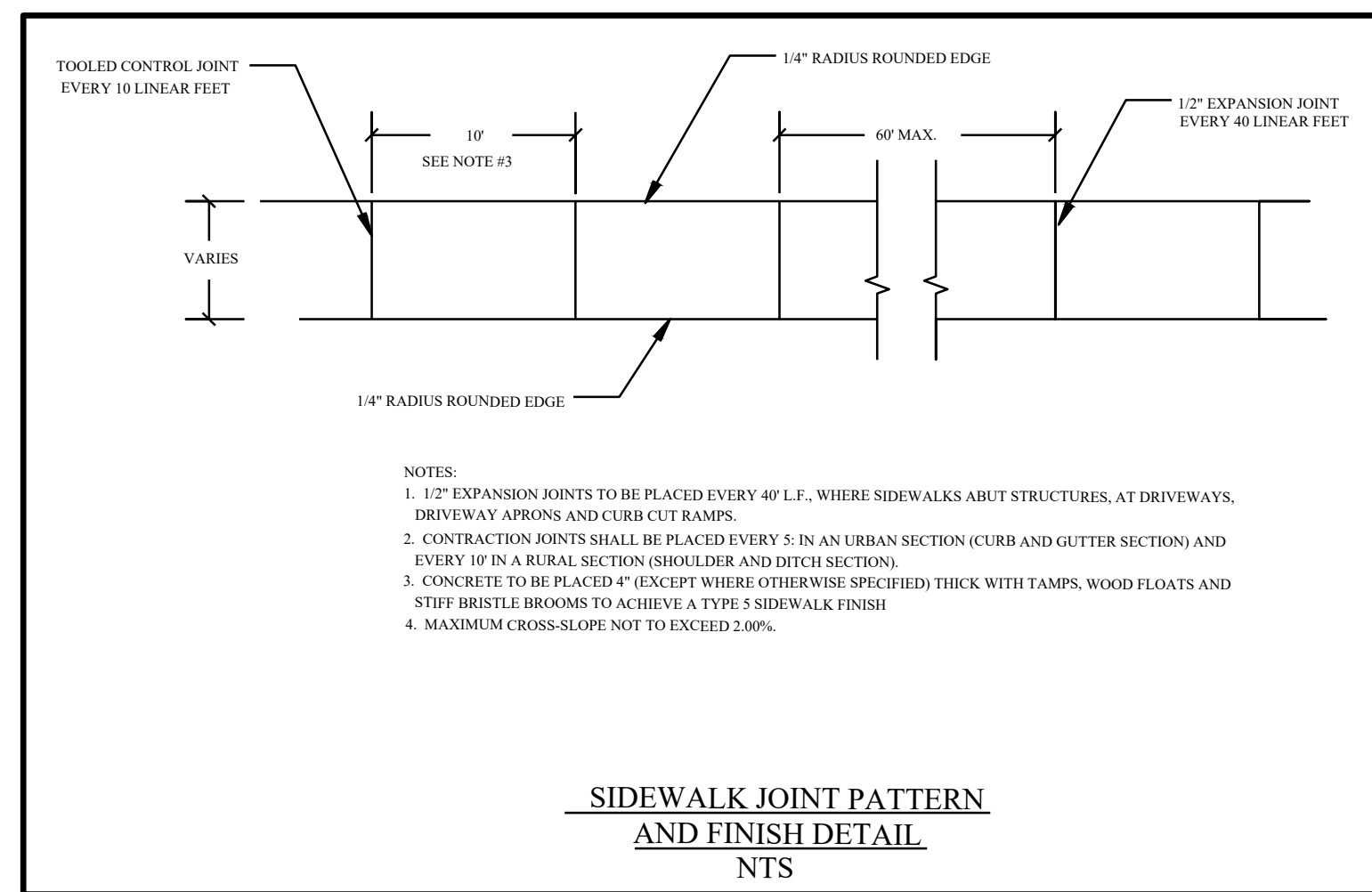
Table 6-5.3 - Permanent Cover Crops
PLANT, PLANTING RATE, AND PLANTING DATE FOR PERMANENT COVER¹

Species	Broadcast Rates	Resource Area ²	Planting Dates by Resource Area	Remarks
EROSION CONTROL with other perennials cover	15 lbs.	0.3 b	M-L P C	227,000 seed per pound. Mix with Weeping Lovegrass or other low-growing species.

GSWCC 2016 Edition 6-47



REVISIONS	DATE



CIVIL SOLUTIONS, INC.
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CONSTRUCTION DETAILS FOR:
JACKSON COUNTY
ANIMAL CONTROL SHELTER
JEFFERSON, GEORGIA

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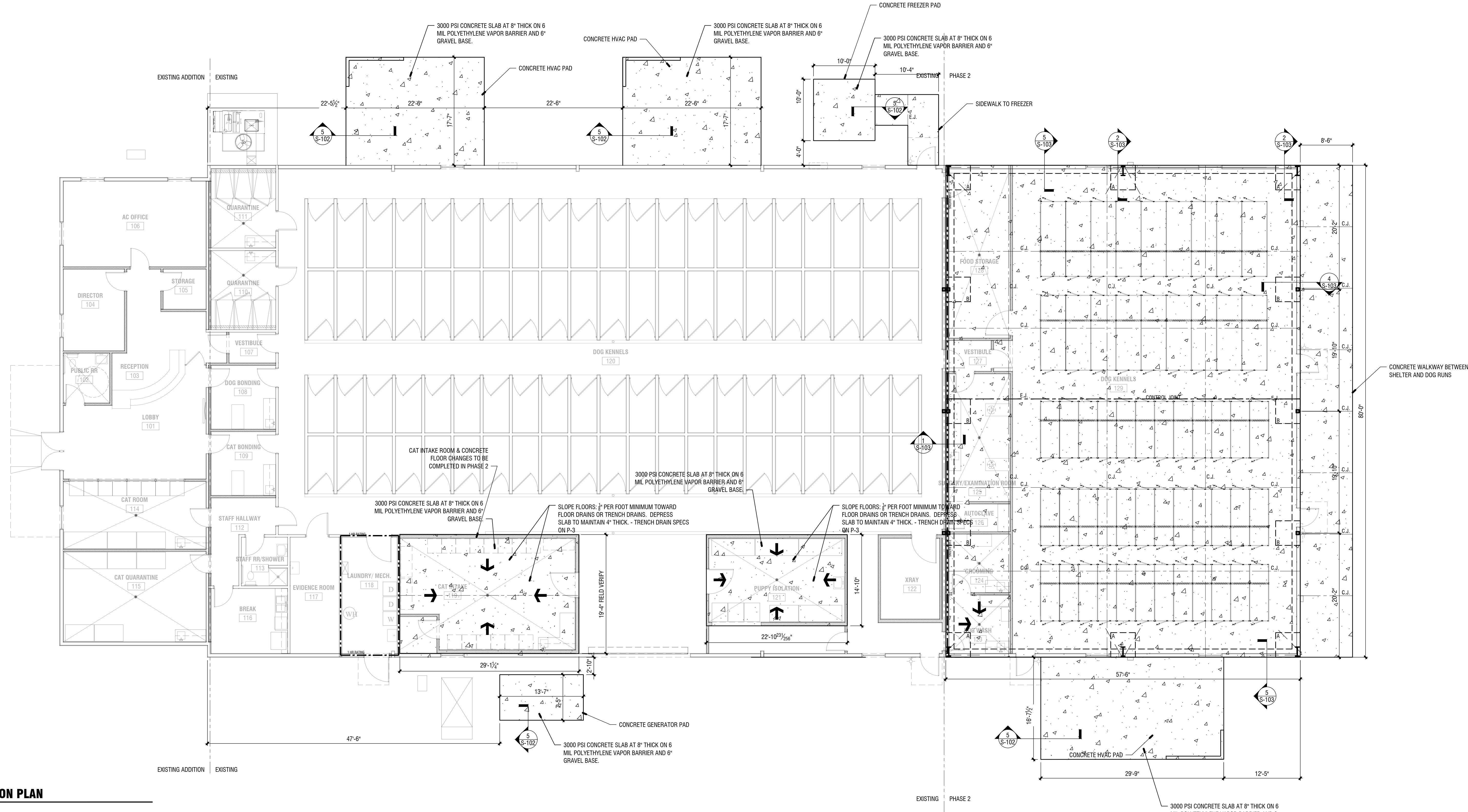
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COUNTY	JACKSON
GMD	245

REVISIONS	DATE

DATE
05/16/23

SHEET
C8

LEVEL II CERTIFICATION #13718



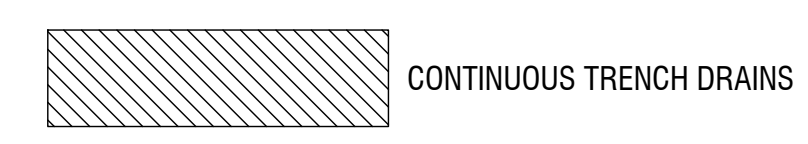
1 FOUNDATION PLAN
1/8" = 1'-0"

FOOTING SCHEDULE	
A	5'-0"x5'-0"x2'-4" W/ 7 #4 BARS @ 8" O.C. & #4 CROSS BARS @ 8" O.C.
B	3'-0"x3'-0"x2'-0" W/ 5 #4 BARS @ 7" O.C. & #4 CROSS BARS @ 7" O.C.

NOTE: EQUIPMENT FOUNDATIONS
 1. CONDENSING UNITS - PROVIDE 3000 PSI CONCRETE SLAB AT 4" THICK WITH 8" X 8" THICKENED EDGES. VERIFY SIZE WITH EQUIPMENT. MAINTAIN 6" CLEAR ON ALL SIDES.

GENERAL STRUCTURAL NOTE:
 1. STRUCTURAL WORK TO INCLUDE ALL WORK SHOWN ON STRUCTURAL DRAWINGS AND ANY AND ALL STRUCTURAL WORK SHOWN ON ANY OTHER DRAWINGS IN THE SET. BIDS SHALL BE INCLUSIVE OF ALL STRUCTURAL WORK SHOWN ON ALL DRAWINGS AND SHALL INCLUDE ALL ACCESSORIES AND RELATED ITEMS REQUIRED FOR COMPLETE AND OPERABLE SYSTEMS AND ALL WORK AND ITEM AS REQUIRED BY THE LATEST VERSION OF ALL APPLICABLE CODES.
 2. STRUCTURAL WORK TO INCLUDE ALL REMOVAL OF EXISTING ITEMS NOT TO BE REUSED.
 3. COORDINATE WORK WITH ALL EXISTING CONDITIONS. REPORT ANY DISCREPANCIES OF CONFLICTS TO THE ARCHITECT PRIOR TO PROCEEDING WITH THE AFFECTED PORTIONS OF THE WORK.

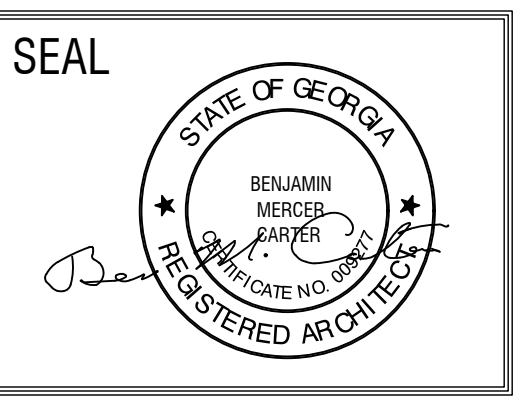
- COORDINATE ALL RELATED WORK WITH FOUNDATION.
- COORDINATE ALL PLUMBING AND IN-SLAB EQUIPMENT.
- VERIFY ALL DIMENSIONS AND REPORT AND DISCREPANCIES TO ARCHITECT PRIOR TO PROCEEDING.
- PROVIDE SLOPED AREAS AT ALL DOORS WHERE SLABS ARE PRESENT AND AS INDICATED.
- PROVIDE COMPACTION TESTING AND SOIL POISONING PRIOR TO POURING SLAB AND FOOTINGS.
- SLOPE ALL SLABS TO FLOOR DRAINS AND TRENCH DRAINS AT 1/2" PER FOOT.
- PROVIDE CAST IRON AT ALL SLAB PENETRATIONS FOR SANITARY PLUMBING AND STEEL SLEEVES AT ALL WATER / CONDENSATE LINE / ETC. PLUMBING PENETRATIONS.



REVISIONS					
Number	Date	Remarks	Number	Date	Remarks
1	05.05.21	UPDATED ROOM FINISH SCHEDULE AND WALL TYPES.			

CONSULTANTS

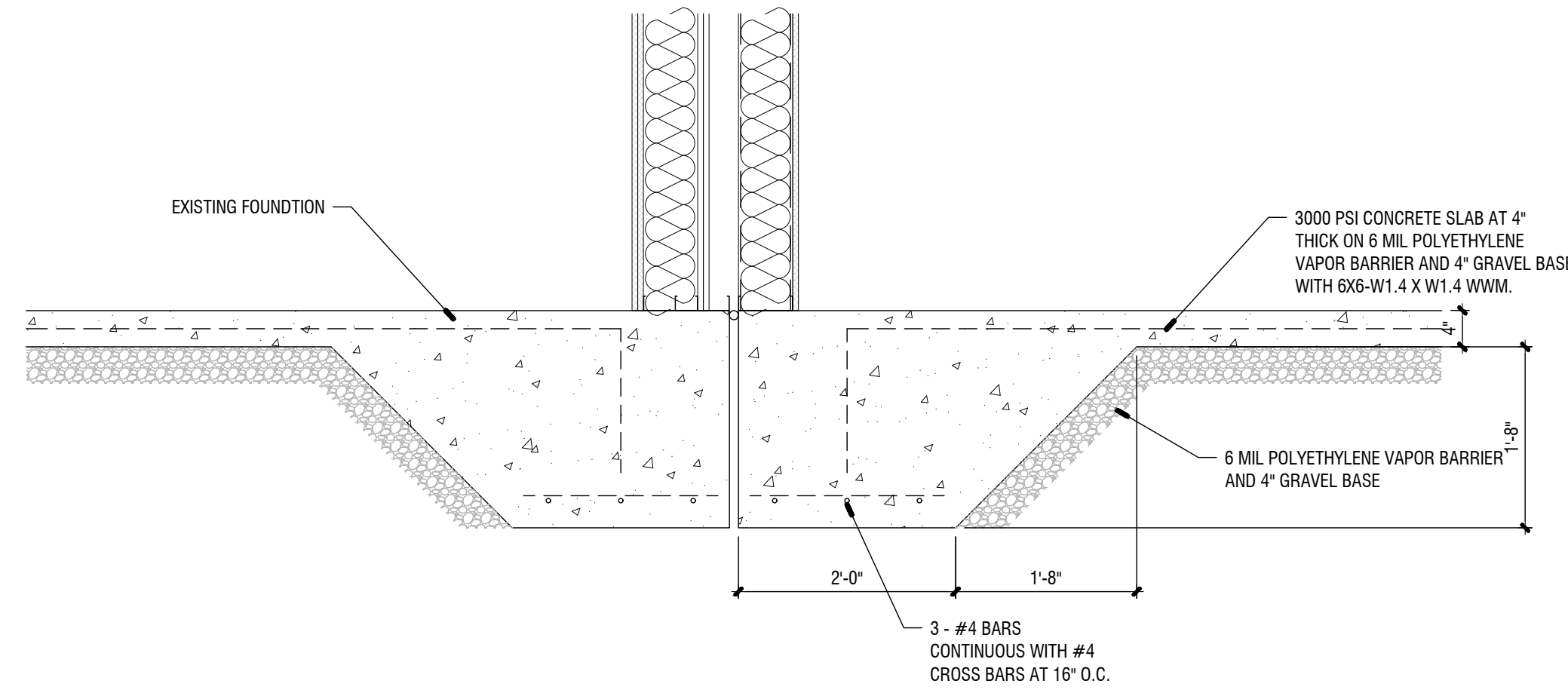
CARTER WATKINS ASSOCIATES ARCHITECTS, INC.
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 137 EAST WASHINGTON STREET
 MONROE, GEORGIA 30655
 Fax: 770.267-1064
 email@carterwatkins.com www.carterwatkins.com



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 JEFFERSON, GEORGIA

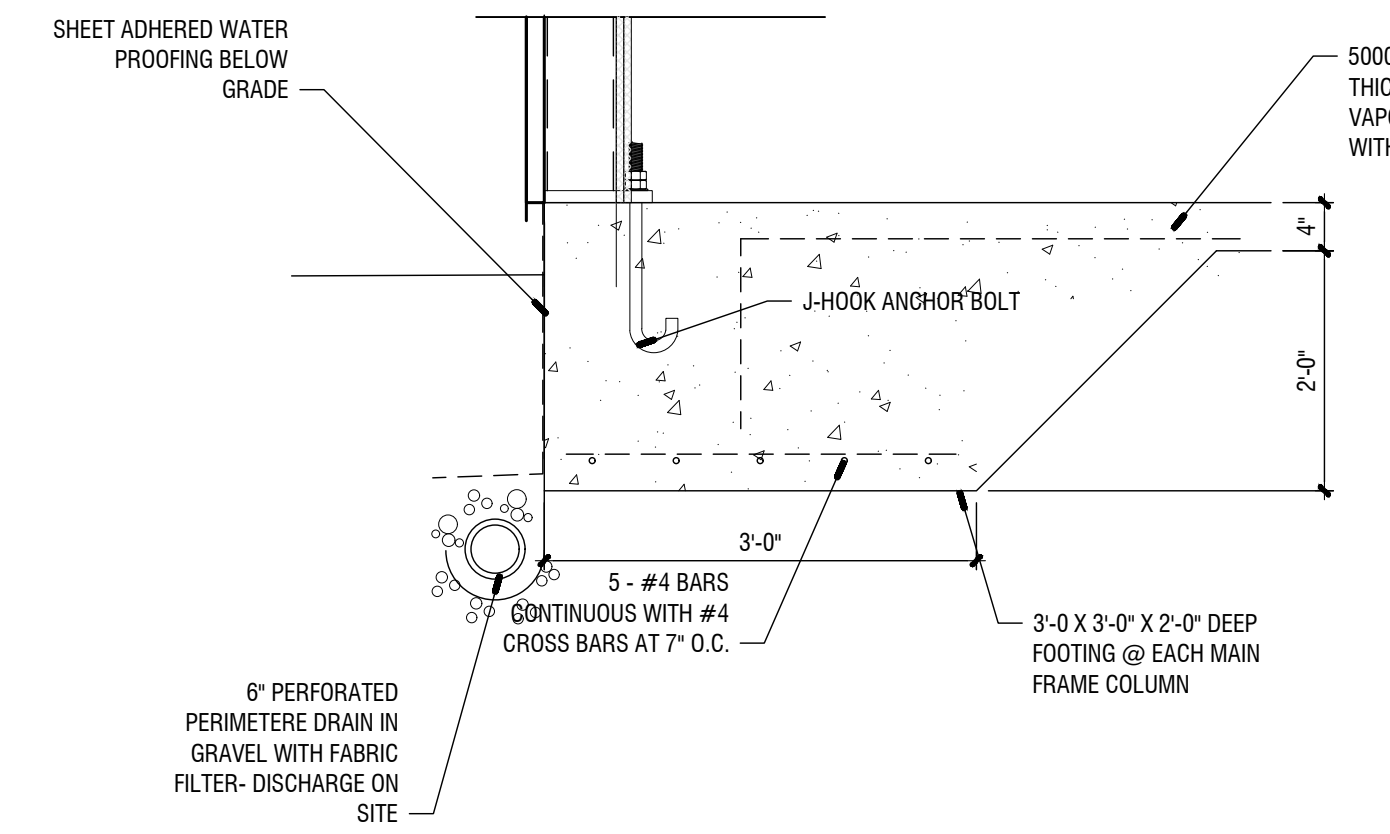
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 FOUNDATION PLAN S-101 FOUNDATION PLAN
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NUMBER:
S101



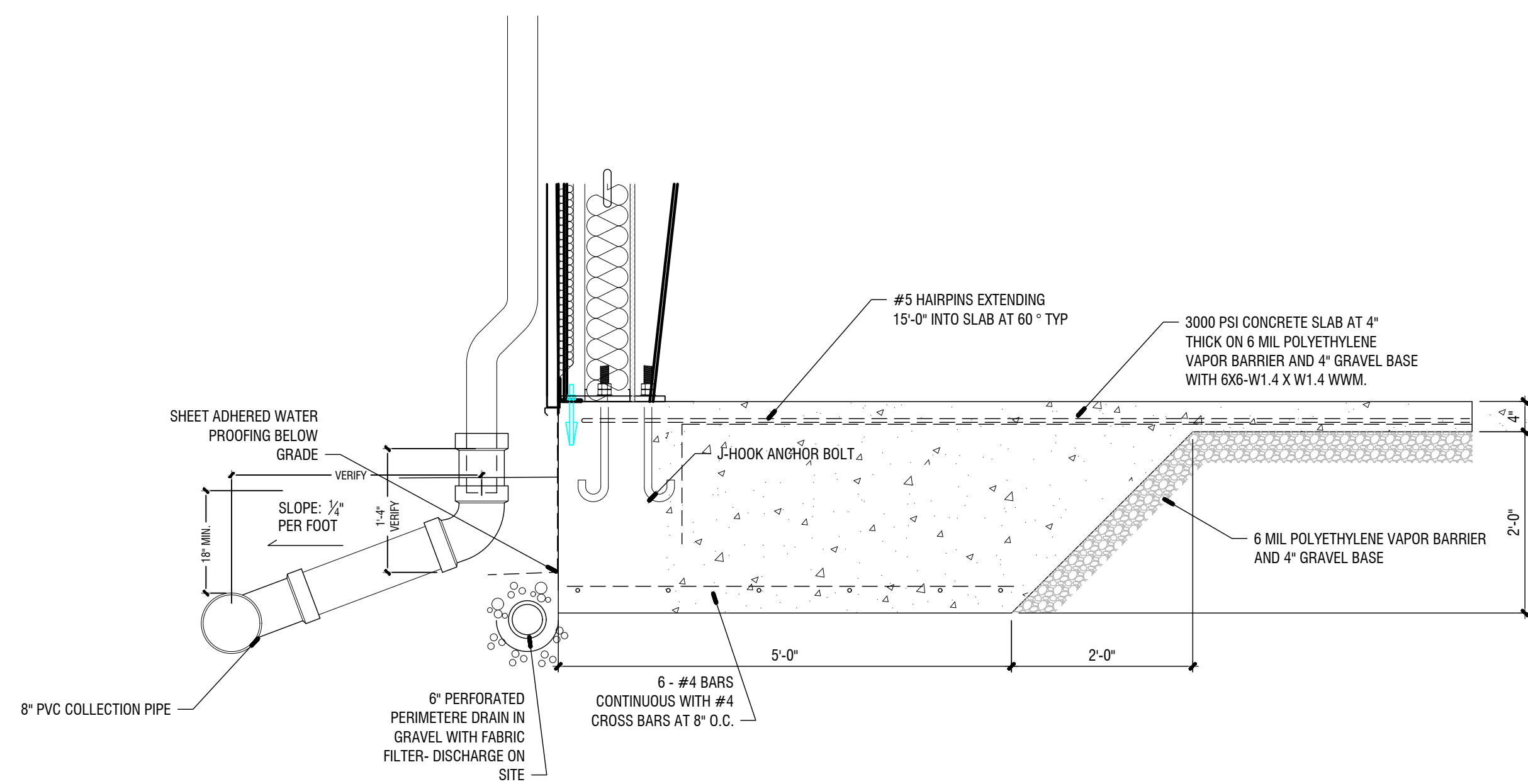
1 SLAB DETAIL AT ADDITION

3/4" = 1'-0"



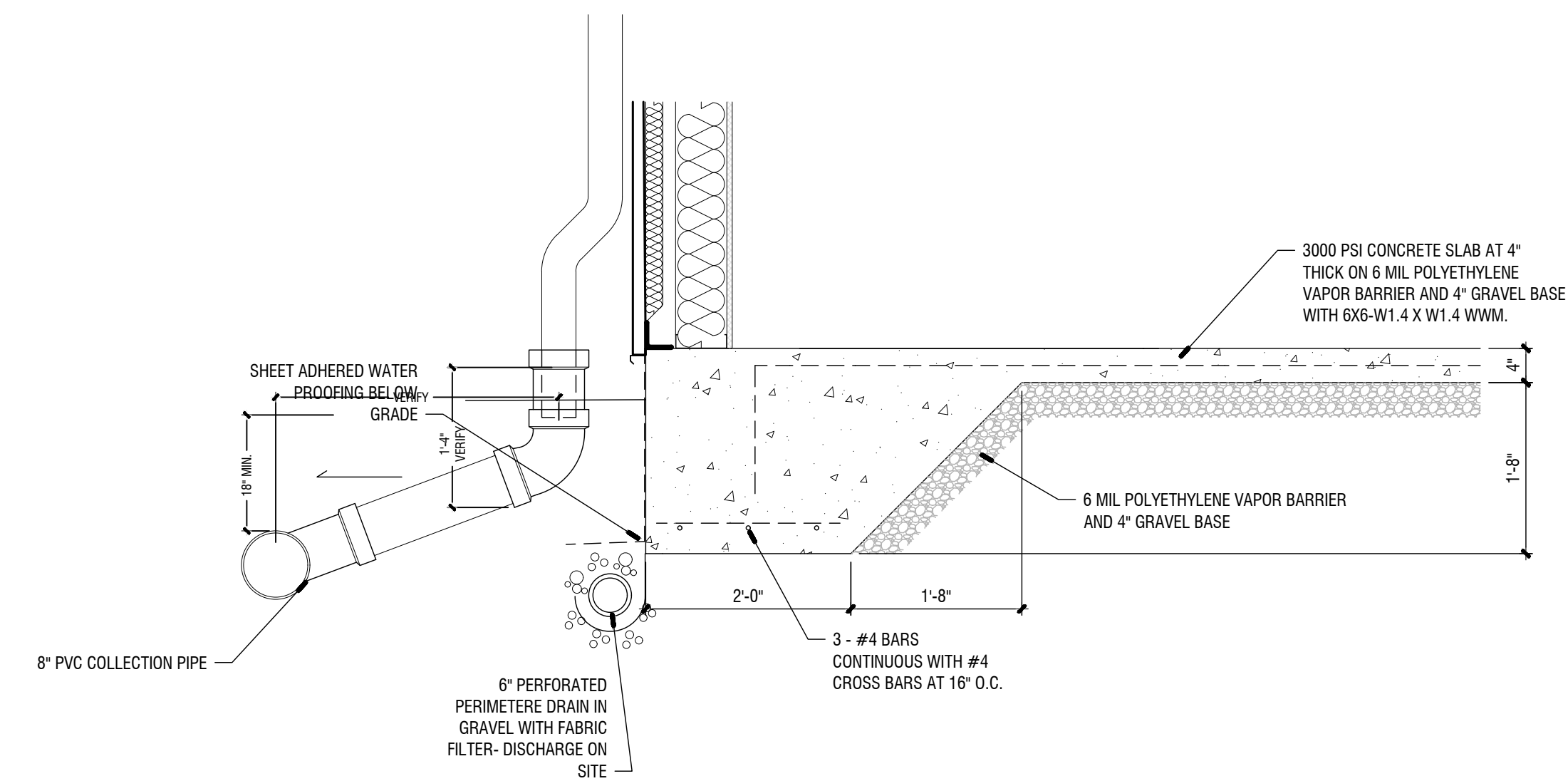
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2 COLUMN FOOTER DETAIL

3/4" = 1'-0"



5 THICKENED SLAB DETAIL

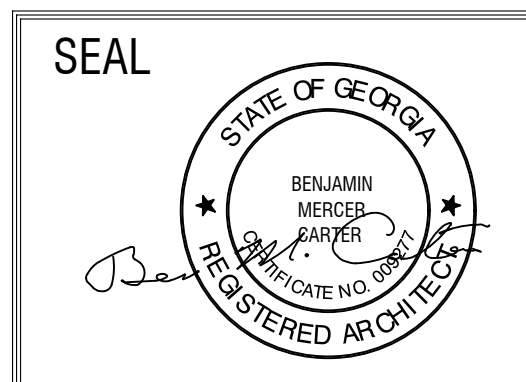
3/4" = 1'-0"

Jul 17 2023 11:51 AM T:\SHARED CAD Projects\2020 Jackson County Animal Shelter Phase 2\SheetS-103 FOUNDATION DETAILS CONT.dwg

REVISIONS					
Number	Date	Remarks	Number	Date	Remarks
1	05.05.21	UPDATED ROOM FINISH SCHEDULE AND WALL TYPES			

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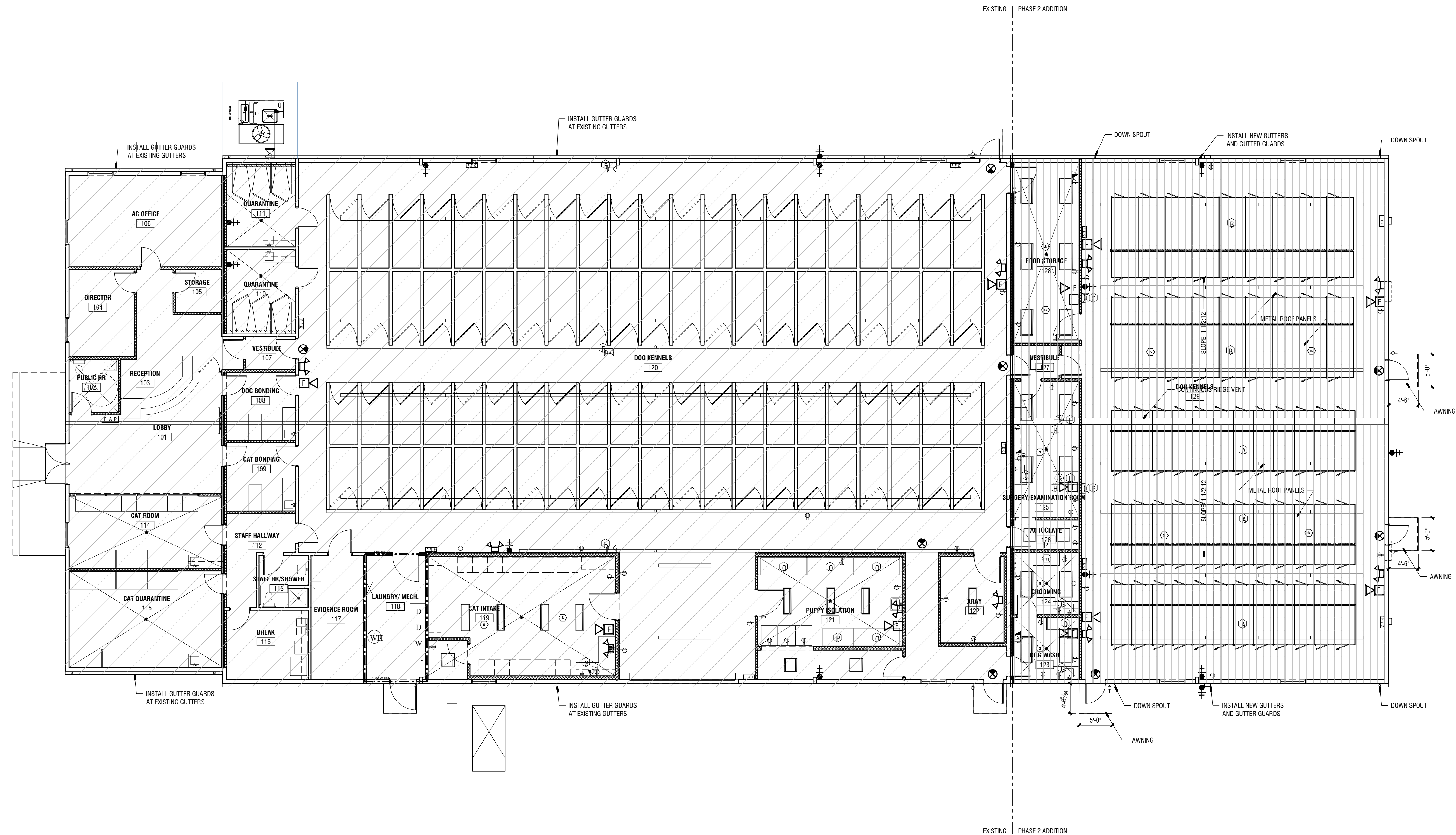


JACKSON COUNTY ANIMAL SHELTER
 JEFFERSON, GEORGIA

SHEET TITLE:
 FOUNDATION DETAILS CONT. S-102
 FOUNDATION DETAILS
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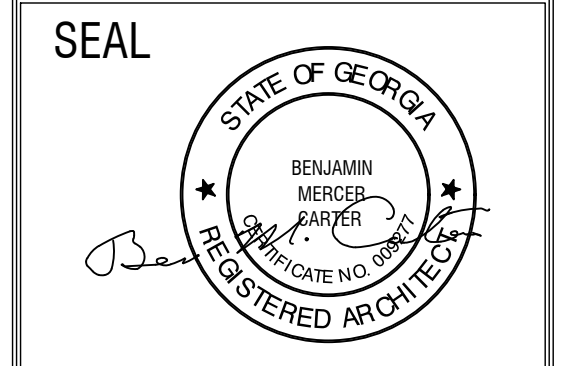


1 ROOF PLAN
1/8" = 1'-0"

REVISIONS					
Number	Date	Remarks	Number	Date	Remarks
1	05.05.21	UPDATED ROOM FINISH SCHEDULE AND WALL TYPES			

CONSULTANTS					

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SHEET TITLE:
ROOF FRAMING PLAN S-104 ROOF FRAMING PLAN
PRINTED:

NUMBER:
S-104

Jul 17 2023 | T:\SHARED CAD Projects\2023 Jackson County Animal Shelter Phase 2\SheetA-102 DEMOLITION PLAN.dwg



DEMO NOTES:
 1. SEE MEP DRAWINGS FOR ITEM, SYSTEMS TO BE REMOVED.
 2. REMOVE PORTIONS OF SLAB FOR NEW DRAINING, PIPING, ETC.
 3. EXISTING WATER LINES AT EXISTING KENNEL AREA TO BE REMOVED.

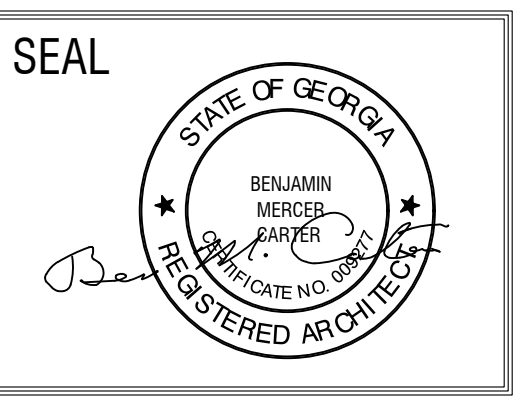
AREA TO BE DEMOLISHED

1 DEMOLITION PLAN
 1/8" = 1'-0"

REVISIONS					
Number	Date	Remarks	Number	Date	Remarks
1	05.05.21	UPDATED ROOM FINISH SCHEDULE AND WALL TYPES			

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SHEET TITLE:
 DEMOLITION PLAN A-102 DEMOLITION PLAN
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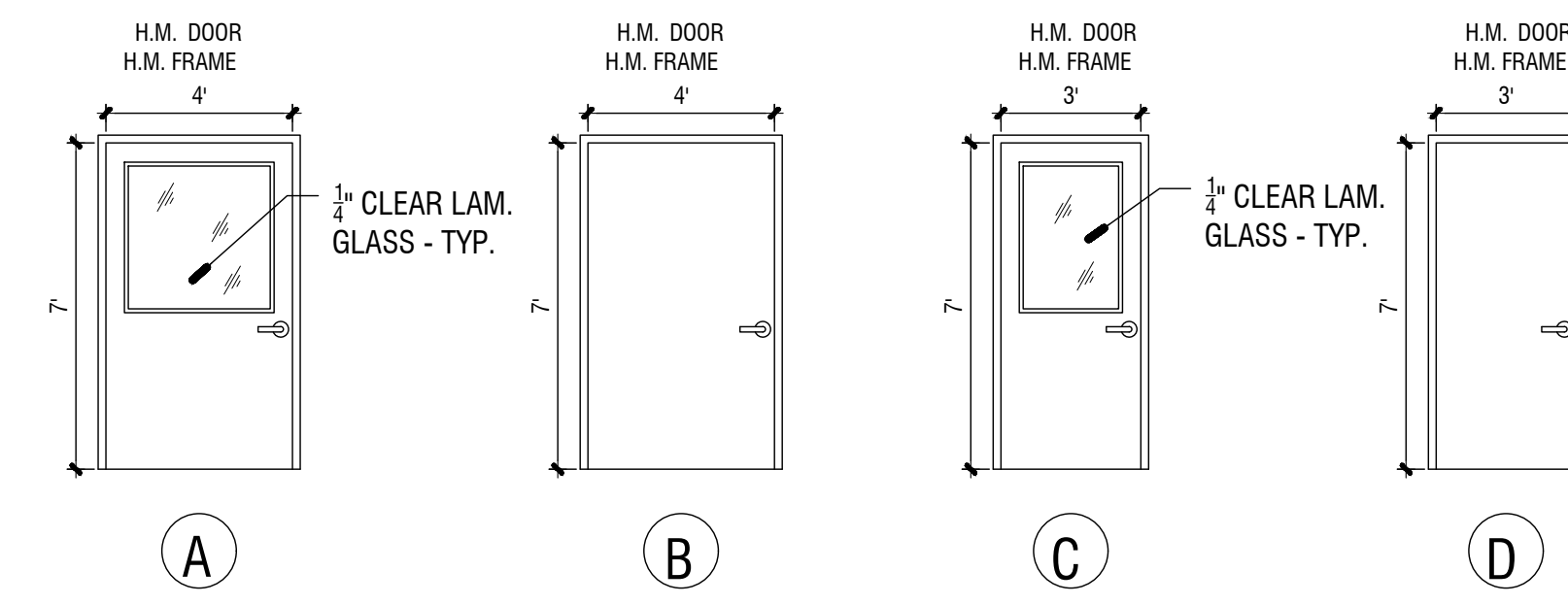
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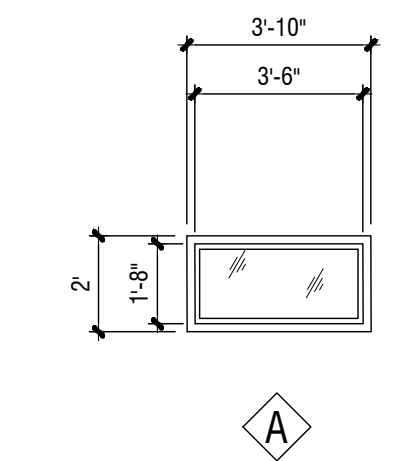
DOOR SCHEDULE - NOTE: PROVIDE FRAME INSULATION AT ALL EXTERIOR DOORS								
DOOR NO.	DOOR SIZE	DOOR TYPE	DOOR	DOOR FINISH	FRAME	FRAME FINISH	RATING	REMARKS
118A	4'-0" x 7'-0"	B	H.M.	P.T.	H.M.	P.T.	20 MIN C LABEL	CLOSER
119A	4'-0" x 7'-0"	A	H.M.	P.T.	H.M.	P.T.		CLOSER
120A	3'-0" x 7'-0"	D	INSUL. H.M.	P.T.	INSUL. H.M.	P.T.		CLOSER
121A	3'-0" x 7'-0"	A	H.M.	P.T.	H.M.	P.T.		CLOSER
122A	4'-0" x 7'-0"	B	H.M.	P.T.	H.M.	P.T.		CLOSER
123A	3'-0" x 7'-0"	C	H.M.	P.T.	H.M.	P.T.		CLOSER
124A	3'-0" x 7'-0"	C	H.M.	P.T.	H.M.	P.T.		CLOSER
125A	3'-0" x 7'-0"	C	INSUL. H.M.	P.T.	INSUL. H.M.	P.T.		CLOSER
126A	3'-0" x 7'-0"	C	INSUL. H.M.	P.T.	INSUL. H.M.	P.T.		CLOSER
127A	3'-0" x 7'-0"	D	INSUL. H.M.	P.T.	INSUL. H.M.	P.T.		CLOSER
127B	3'-0" x 7'-0"	D	INSUL. H.M.	P.T.	INSUL. H.M.	P.T.		CLOSER
128A	4'-0" x 7'-0"	B	H.M.	P.T.	H.M.	P.T.		CLOSER
128B	4'-0" x 7'-0"	B	H.M.	P.T.	H.M.	P.T.		CLOSER
129A	3'-0" x 7'-0"	C	H.M.	P.T.	H.M.	P.T.		CLOSER
129B	3'-0" x 7'-0"	C	H.M.	P.T.	H.M.	P.T.		CLOSER
129C	3'-0" x 7'-0"	C	H.M.	P.T.	H.M.	P.T.		CLOSER

ROOM FINISH SCHEDULE - NOTE:								
ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS	FINISH	CEILING	WALL TYPE	REMARKS
101	LOBBY	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
102	PUBLIC RESTROOM	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
103	RECEPTION / LOBBY	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
104	DIRECTOR	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
105	STORAGE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
106	AC OFFICE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
107	VESTIBULE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
108	DOG BONDING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
109	CAT BONDING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
110	QUARANTINE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
111	QUARANTINE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
112	STAFF HALLWAY	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
113	STAFF RESTROOM/SHOWER	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
114	CAT ROOM	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
115	CAT QUARANTINE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
116	BREAK	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
117	EVIDENCE ROOM	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
118	LAUNDRY/MECHANICAL	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
119	CAT INTAKE	STONHARD FLOORING	STONHARD	DUROCK	FRP	GYP. BOARD PT.	2 A-104	
120	DOG KENNELS	BIO-CEM TC FLOORING	BIO-CEM CB	DUROCK	EPOXY	PAINT	3 A-104	
121	PUPPY ISOLATION	STONHARD FLOORING	STONHARD	DUROCK	FRP	GYP. BOARD PT.	2 A-104	
122	XRAY	STONHARD FLOORING	EPOXY	GYP/ LEAD LINED EPOXY	GYP. BOARD PT.	2 A-104		
123	DOG WASH	STONHARD FLOORING	STONHARD	DUROCK	FRP	GYP. BOARD PT.	2 A-104	FULL HT. WALLS
124	GROOMING	STONHARD FLOORING	STONHARD	DUROCK	FRP	GYP. BOARD PT.	2 A-104	FULL HT. WALLS
125	SURGERY/EXAMINATION ROOM	STONHARD FLOORING	STONHARD	DUROCK	FRP	GYP. BOARD PT.	2 A-104	FULL HT. WALLS
126	AUTOCLAVE	STONHARD FLOORING	STONHARD	DUROCK	FRP	GYP. BOARD PT.	2 A-104	FULL HT. WALLS
127	VESTIBULE	STONHARD FLOORING	STONHARD	DUROCK	FRP	GYP. BOARD PT.	2 A-104	FULL HT. WALLS
128	FOOD STORAGE	STONHARD FLOORING	STONHARD	DUROCK	FRP	GYP. BOARD PT.	2 A-104	FULL HT. WALLS
129	DOG KENNELS	BIO-CEM TC FLOORING	BIO-CEM CB	DUROCK	EPOXY	PAINT	4 A-104	

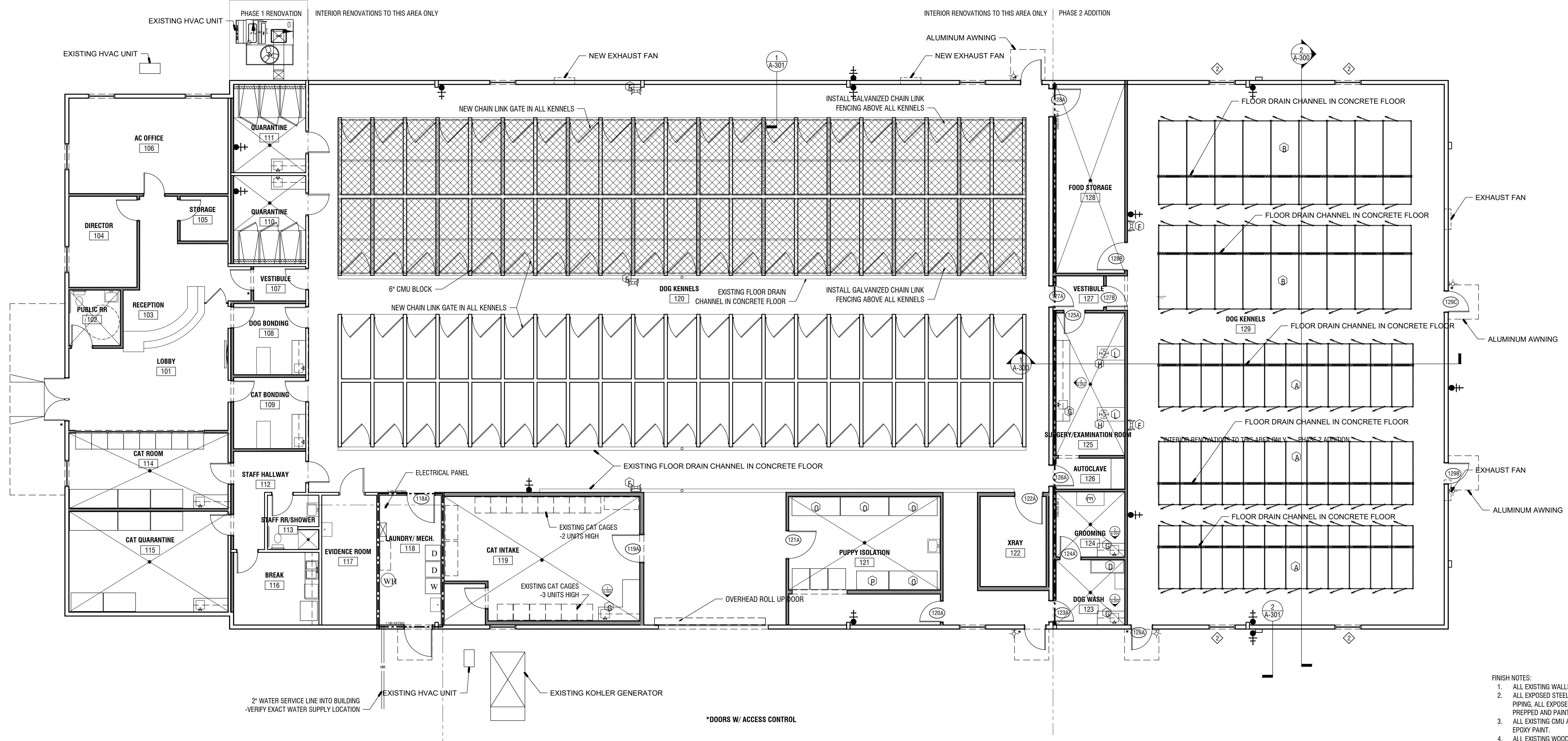
NOTE = ALL EXPOSED STEEL STRUCTURE, BRACING, FURRING, ETC. TO BE PAINTED



NOTE = ALL EXISTING WALLS/CEILING/DOORS/FRAMES THAT ARE TO REMAIN ARE TO BE REPAIRED, SANDED, PRIMED, & PAINTED



KAWNEER TRI-FAB 451T OR EQUAL



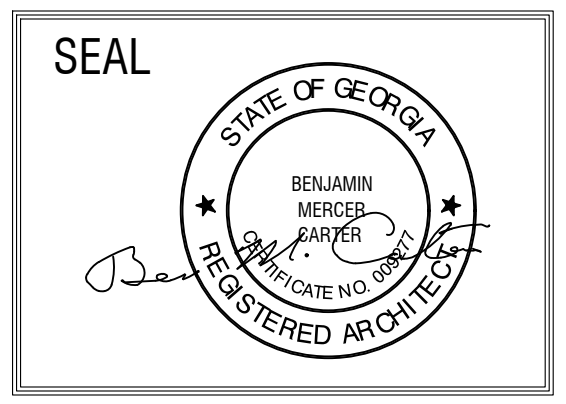
1 PROPOSED PLAN
1/8" = 1'-0"

- FINISH NOTES:
1. ALL EXISTING WALLS AND TRIM TO BE PAINTED.
 2. ALL EXPOSED STEEL STRUCTURE, BRACES, COLUMNS, PLUMBING PIPING, ALL EXPOSED METAL ELEMENTS AND SURFACES TO BE PREPARED AND PAINTED.
 3. ALL EXISTING CMU AT KENNELS TO BE PRIMED AND PAINTED W/ EPOXY PAINT.
 4. ALL EXISTING WOOD DOORS (IF ANY REMAIN) TO BE REPLACED W/ H.M. DOORS AND FRAMES.

REVISIONS					
Number	Date	Remarks	Number	Date	Remarks
1	05.05.21	UPDATED ROOM FINISH SCHEDULE AND WALL TYPES			

CONSULTANTS

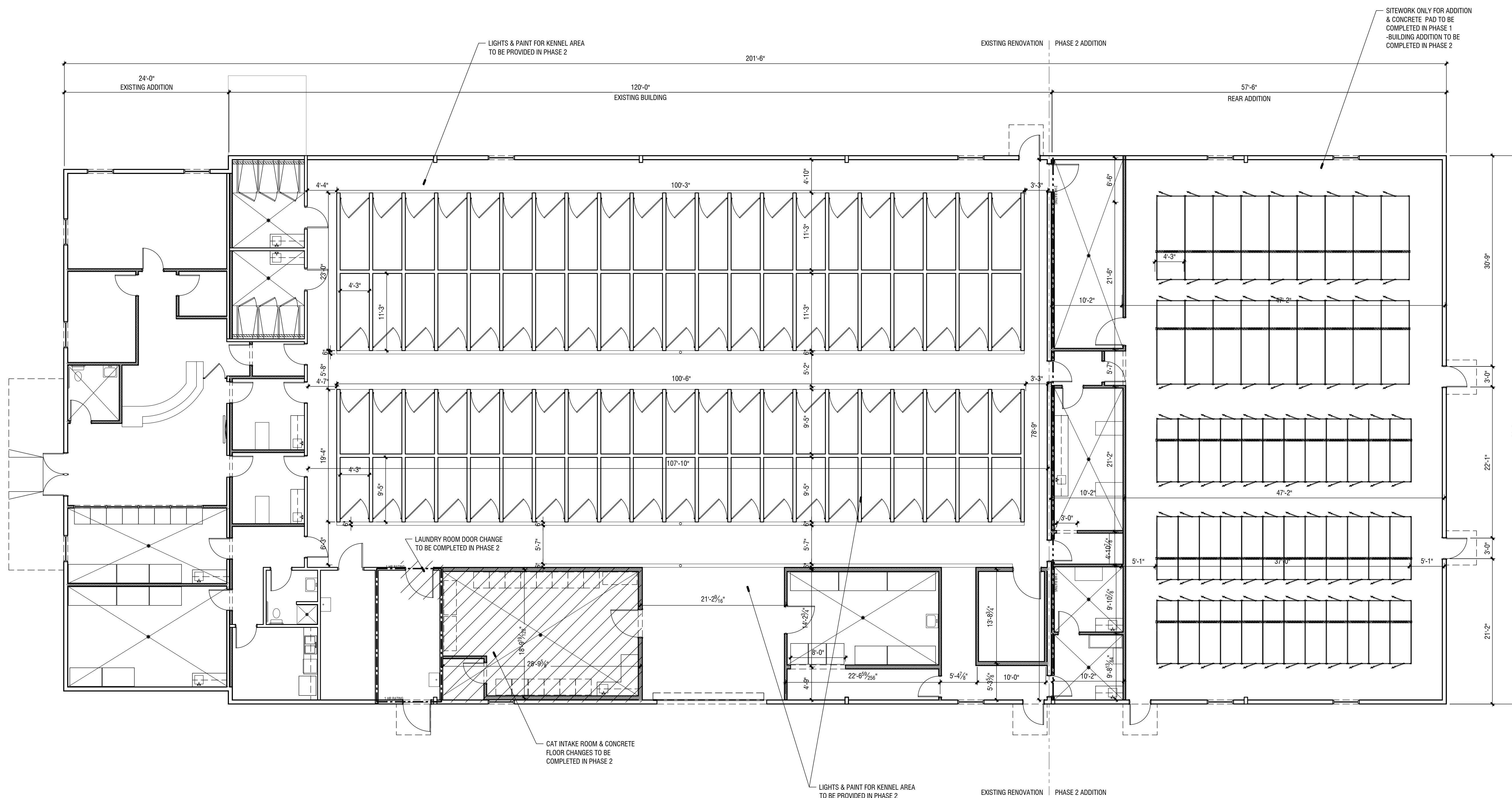
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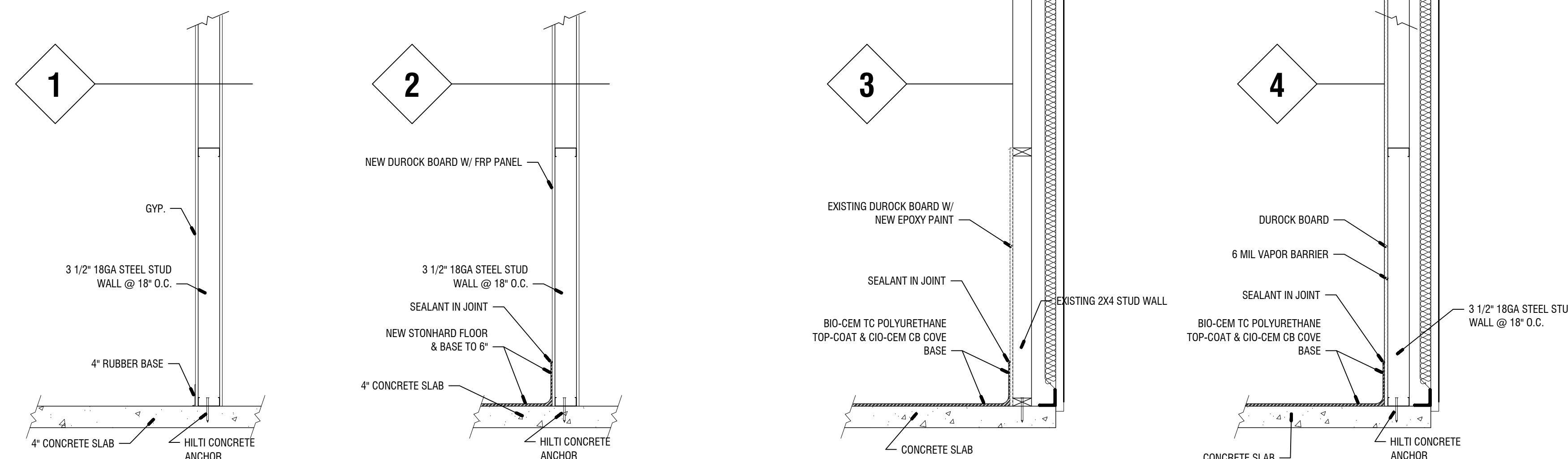
SHEET TITLE:
 PROPOSED FLOOR PLAN A-103 PROPOSED
 FLOOR PLAN
 PRINTED:

NUMBER:
A-103



1 DIMENSION PLAN

1/8" = 1'-0"

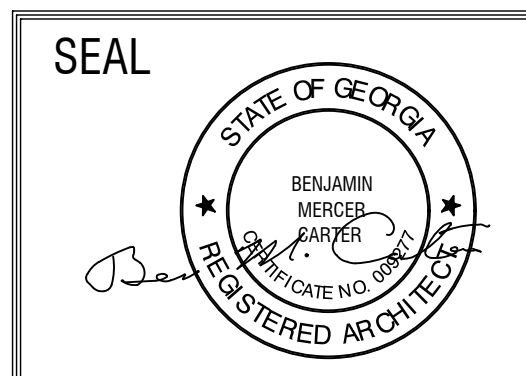


Jul 17 2023 1:15 PM T:\SHARED CAD Projects\2022 Jackson County Animal Shelter Phase 2\Sheet A-104 DIMENSION PLAN.dwg

REVISIONS					
Number	Date	Remarks	Number	Date	Remarks
1	05.05.21	UPDATED ROOM FINISH SCHEDULE AND WALL TYPES			

CONSULTANTS	
Number	Remarks

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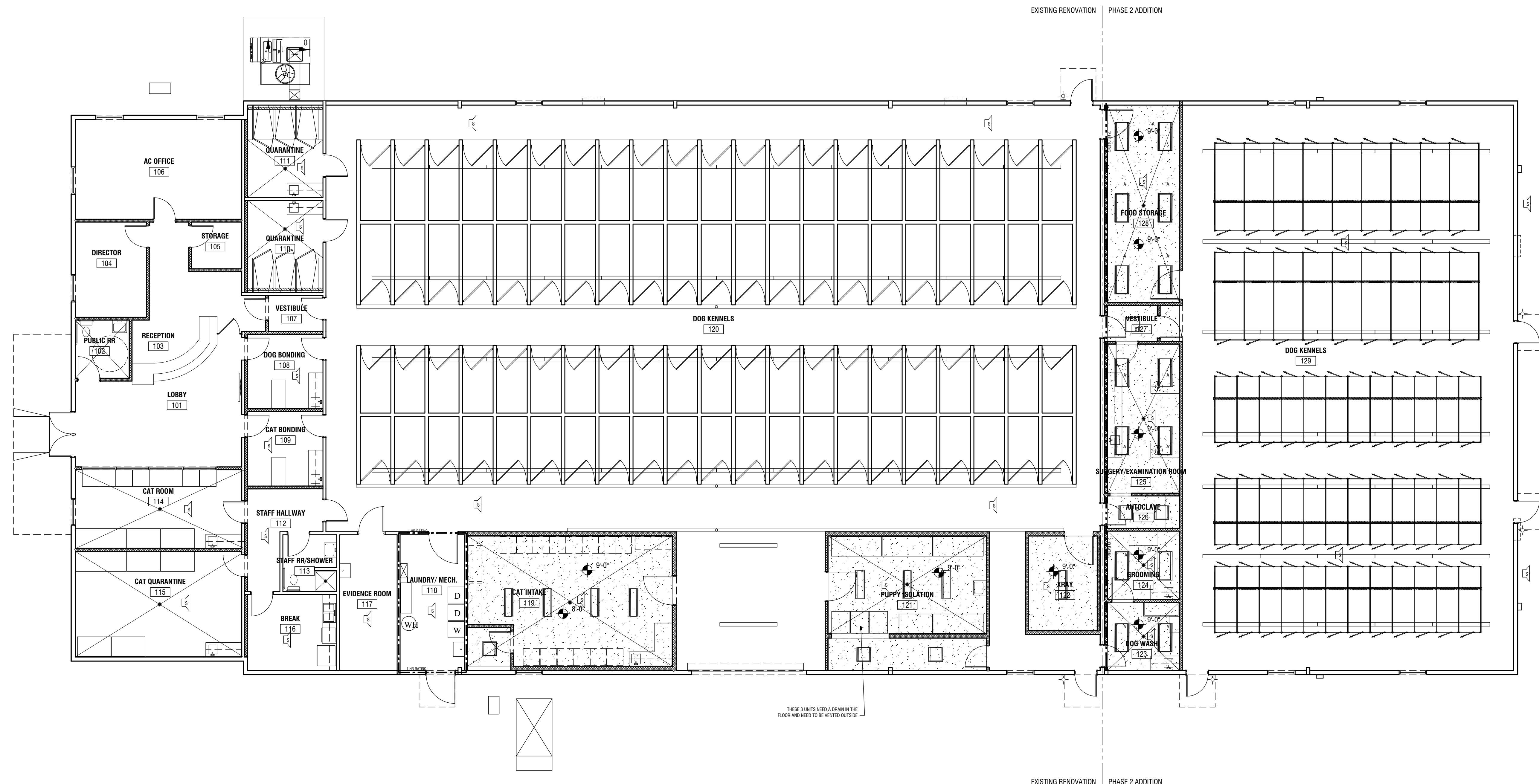
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SHEET TITLE:
 DIMENSION PLAN A-104 DIMENSION PLAN
 PRINTED:

NUMBER:
A-104

JACKSON CO. ANIMAL SHELTER PRINTED DATE: 07/17/23

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1 REFLECTED CEILING PLAN
1/8" = 1'-0"

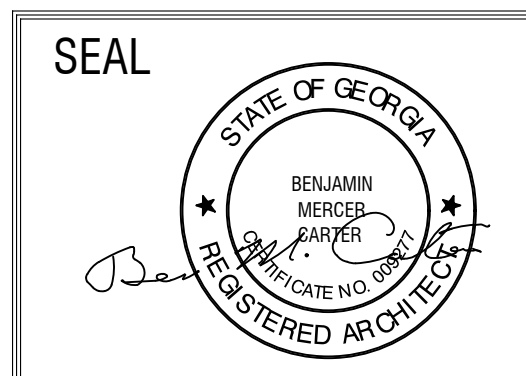
- 2x4 RECESSED MOUNTED LED FIXTURE
 - 1x4 RECESSED MOUNTED LED FIXTURE
 - 2x2 RECESSED MOUNTED LED FIXTURE
 - LED WALL PACK - TRACE-LITE LED DARK BRONZE
 - SURGERY LIGHT - VERIFY LOCATION W/ OWNER PROVIDE WIRING FOR LIGHT ONLY
 - OUTDOOR WALL SCONCE - LITHORNA LED WALL CYCLES - DARK BRONZE
 - INDUSTRIAL STRIP
 - SPEAKER FOR PA SYSTEM
- COORDINATE ALL FIXTURES WITH ELECTRICAL & NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROGRESSING WITH AFFECTED AREAS.
- REPRESENTS A HARD GYP BOARD CEILING

JUL 17 2023 | T:\SHARED CAD Projects\2020 Jackson County Animal Shelter Phase 2\SheetA-105 REFLECTED CEILING PLAN.dwg

REVISIONS					
Number	Date	Remarks	Number	Date	Remarks
1	05.05.21	UPDATED ROOM FINISH SCHEDULE AND WALL TYPES			

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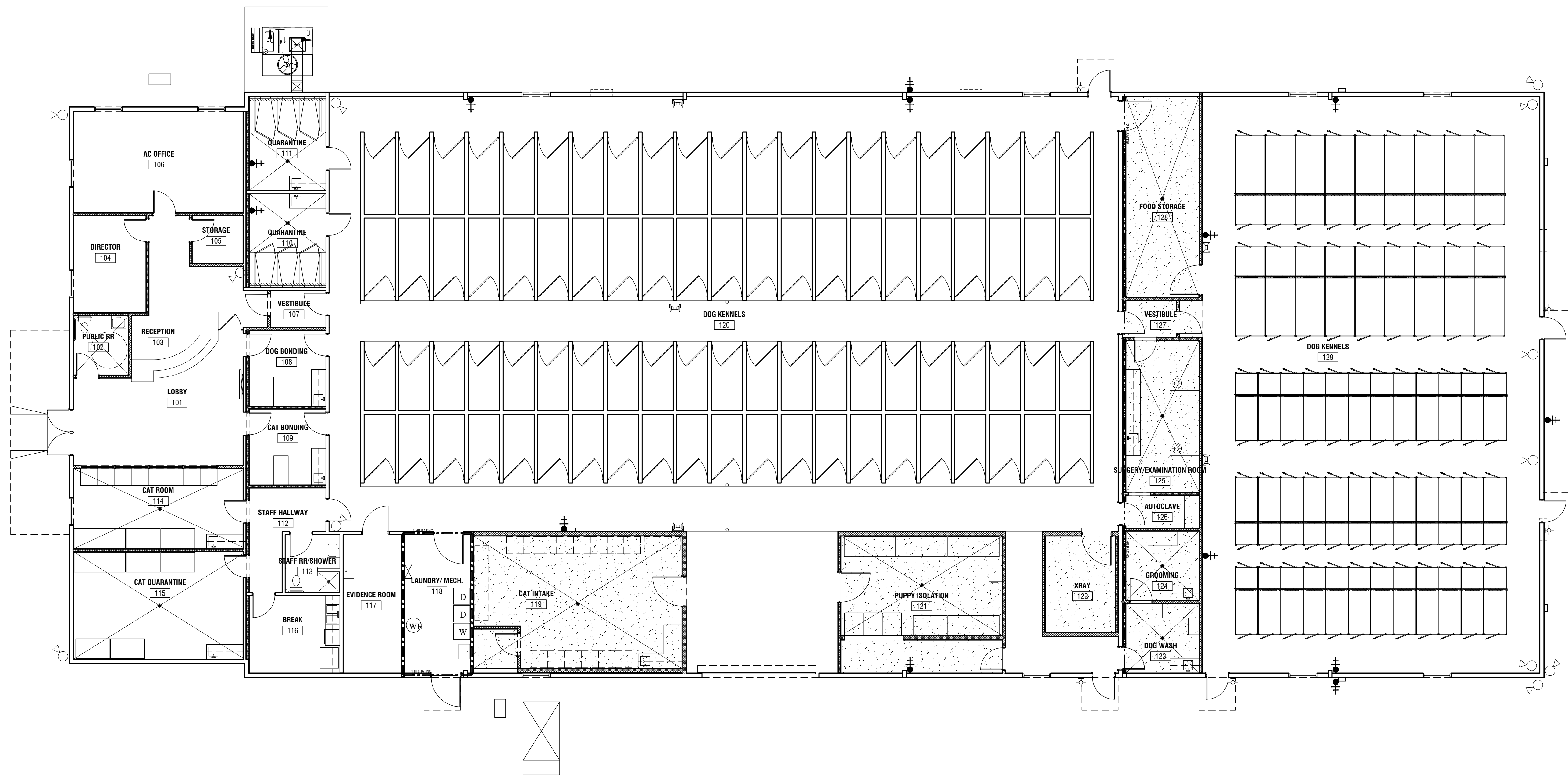
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REFLECTED CEILING PLAN A-105
REFLECTED CEILING PLAN
PRINTED:

NUMBER:
A-105



1 SECURITY CAMERA PLAN
1/8" = 1'-0"

SECURITY CAMERA NOTES	SECURITY CAMERA LEGEND
<p>SECURITY CAMERAS: - ALL DEVICES AND QUANTITIES WILL BE DERIVED FROM THESE DRAWINGS - REVIEW SPECIFICATIONS FOR EQUIPMENT REQUIREMENTS - SECURITY SYSTEMS CONTRACTOR WILL PROVIDE ALL ANCILLARY EQUIPMENT NECESSARY TO PROVIDE A FULLY FUNCTIONING VIDEO SURVEILLANCE MANAGEMENT SYSTEM.</p> <p>THIS INCLUDES BUT IS NOT LIMITED TO: - VIDEO WALL COMPONENTS - CAMERA ACCESSORIES SUCH AS MOUNTS, ETC. - NETWORK SWITCHES FROM THE SAME MANUFACTURER AS CAMERAS</p> <p>FINAL LOCATIONS OF HEAD END / DISTRIBUTED CONTROL EQUIPMENT TO BE DETERMINED BY ARCHITECT AND CLIENT.</p>	<p>SECURITY CAMERA TYPE 1 LOCATION- OWNER IS TO PROVIDE AND INSTALL SECURITY CAMERAS</p>

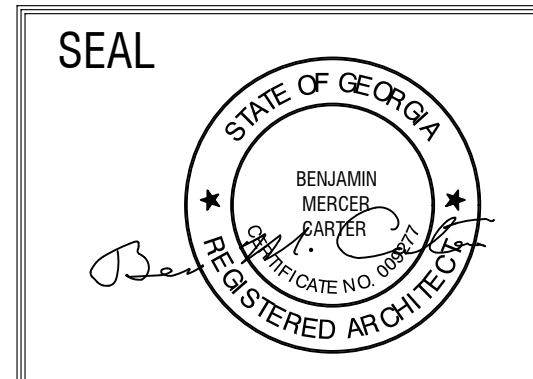
*DATA DROPS ARE TO BE CERTIFIED

JUL 17 2023 11:58:00 AM I:\SHARED CAD\Projects\2023\Jackson County Animal Shelter Phase 2\Sheet\A107-SECURITY CAMERA LAYOUT.dwg

REVISIONS					
Number	Date	Remarks	Number	Date	Remarks
1	05.05.21	UPDATED ROOM FINISH SCHEDULE AND WALL TYPES			

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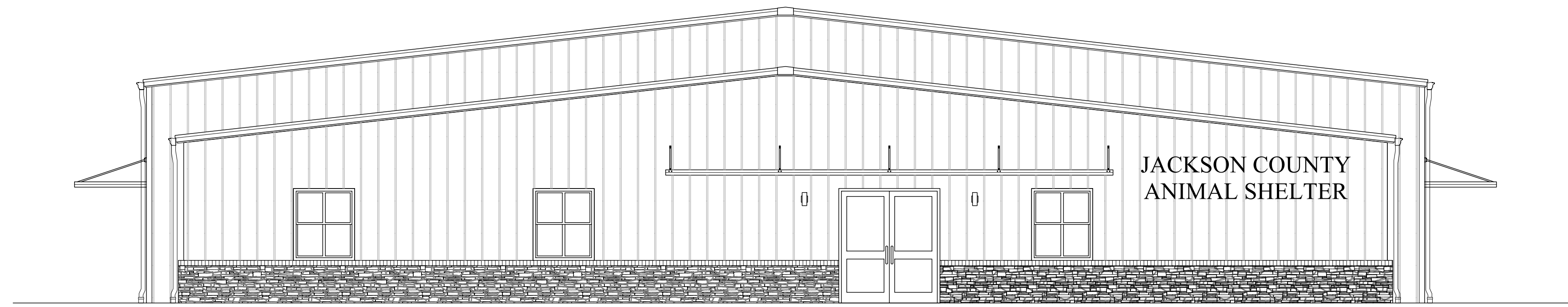
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SHEET TITLE:
 SECURITY CAMERA LAYOUT
 PRINTED:

NUMBER:
A-107

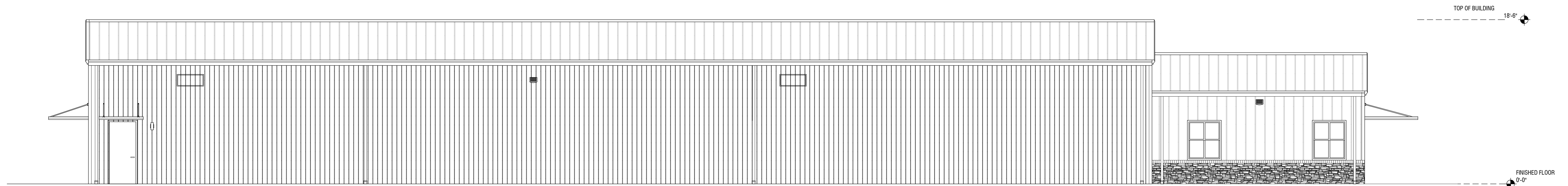
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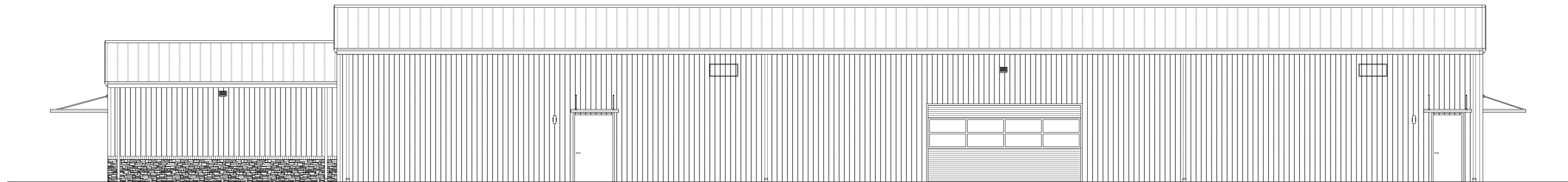
1 EXISTING FRONT ELEVATION

3/16" = 1'-0"



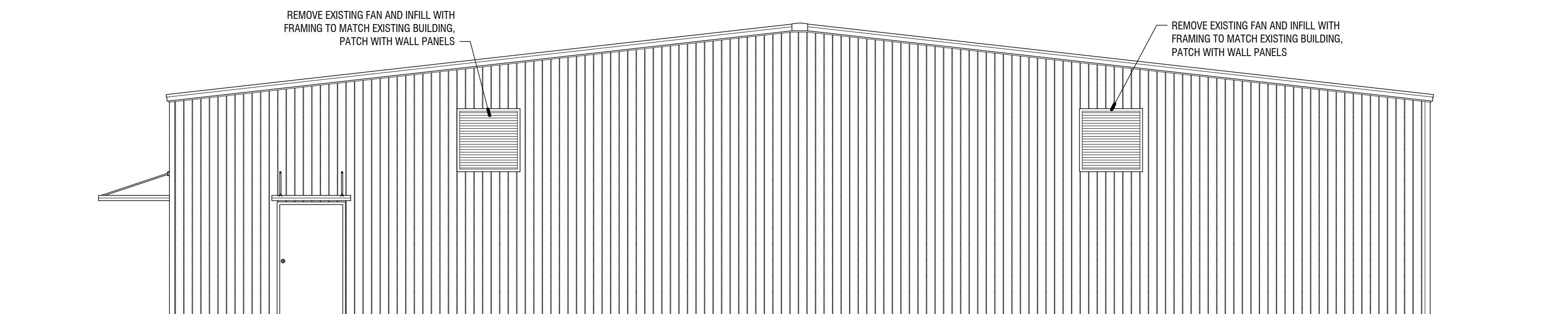
2 EXISTING LEFT ELEVATION

3/16" = 1'-0"



3 EXISTING RIGHT ELEVATION

3/16" = 1'-0"



4 EXISTING REAR ELEVATION

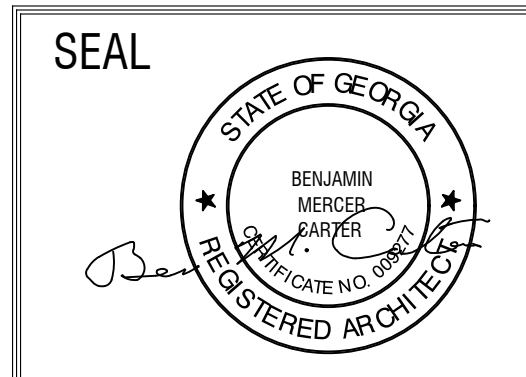
3/16" = 1'-0"

Jul 17 2023 | T:\SHARED CAD Projects\2022 Jackson County Animal Shelter Phase 2\Sheet A-201 EXISTING EXTERIOR ELEVATIONS.dwg

REVISIONS					
Number	Date	Remarks	Number	Date	Remarks
1	05.05.21	UPDATED ROOM FINISH SCHEDULE AND WALL TYPES			

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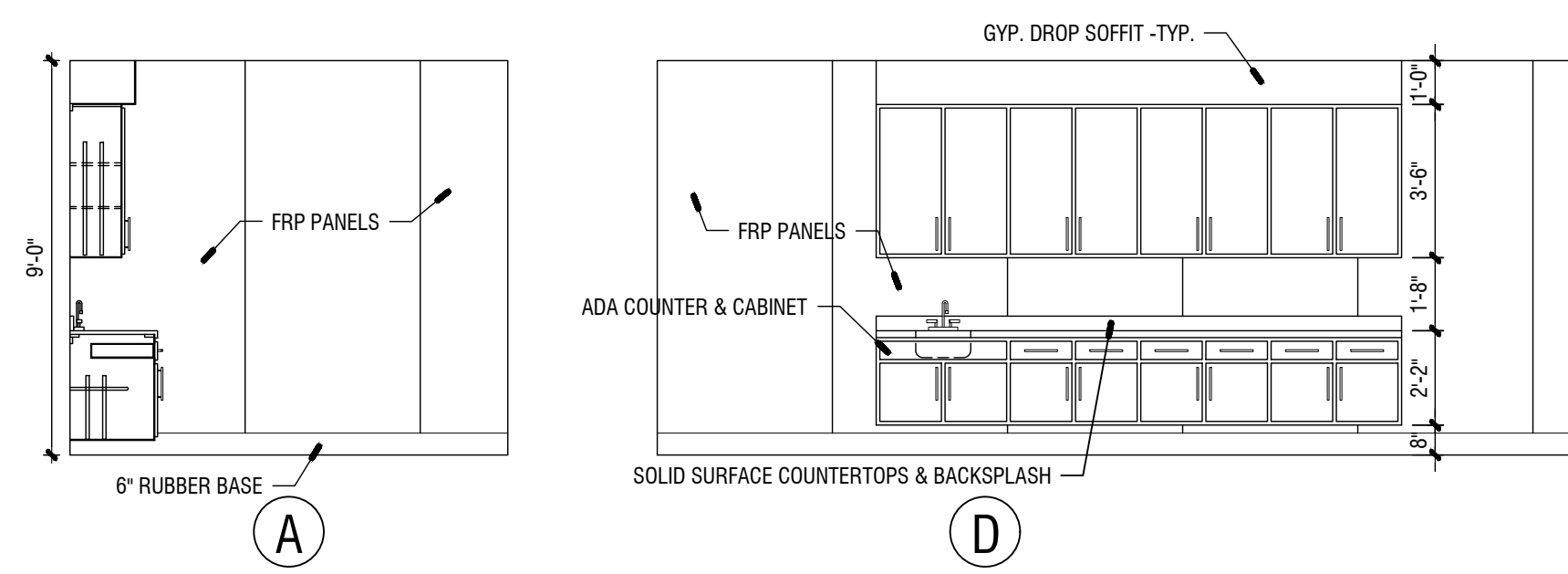
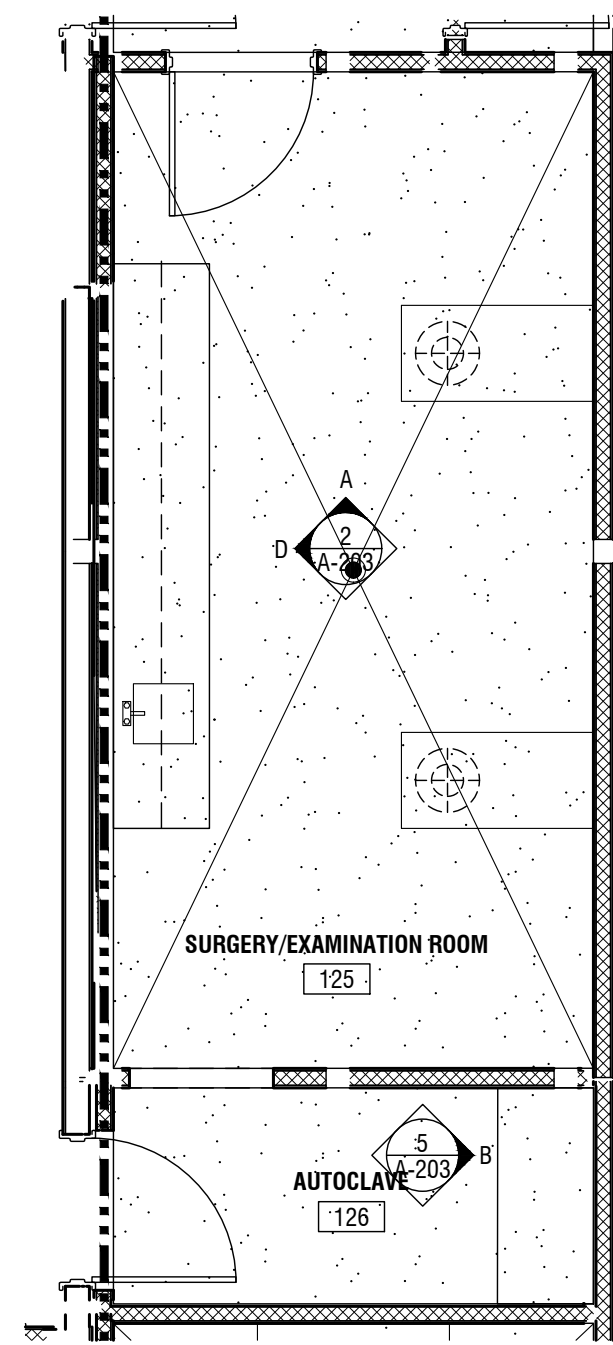


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 JEFFERSON, GEORGIA

SHEET TITLE:
 EXISTING EXTERIOR ELEVATIONS A-201
 EXISTING EXTERIOR ELEVATIONS
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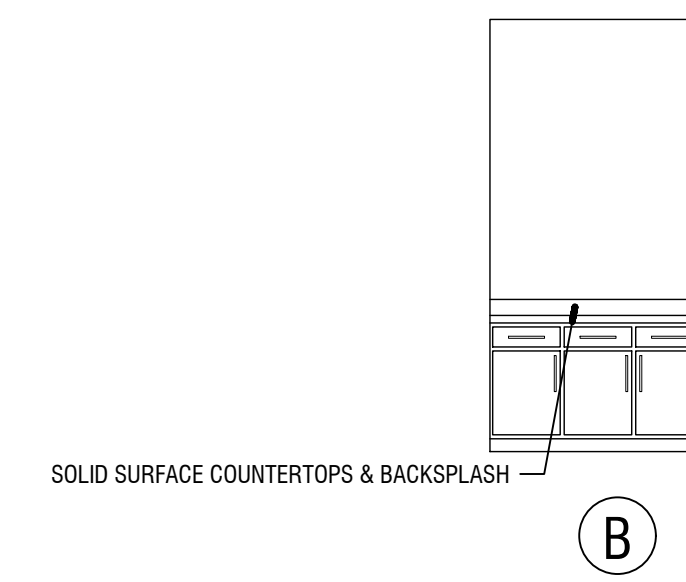
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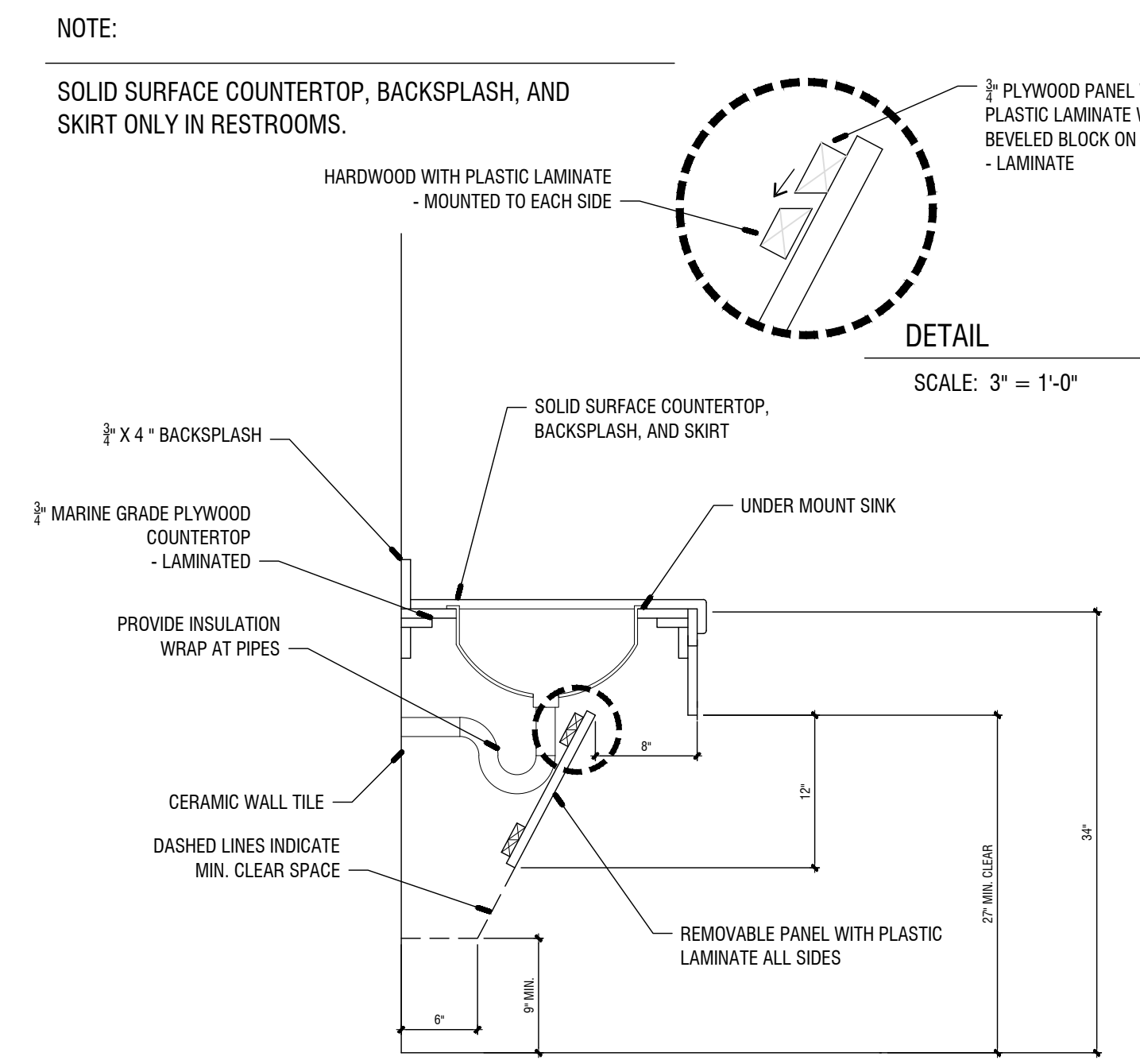
4 EXAMINATION ROOM 125

1/4" = 1'-0"



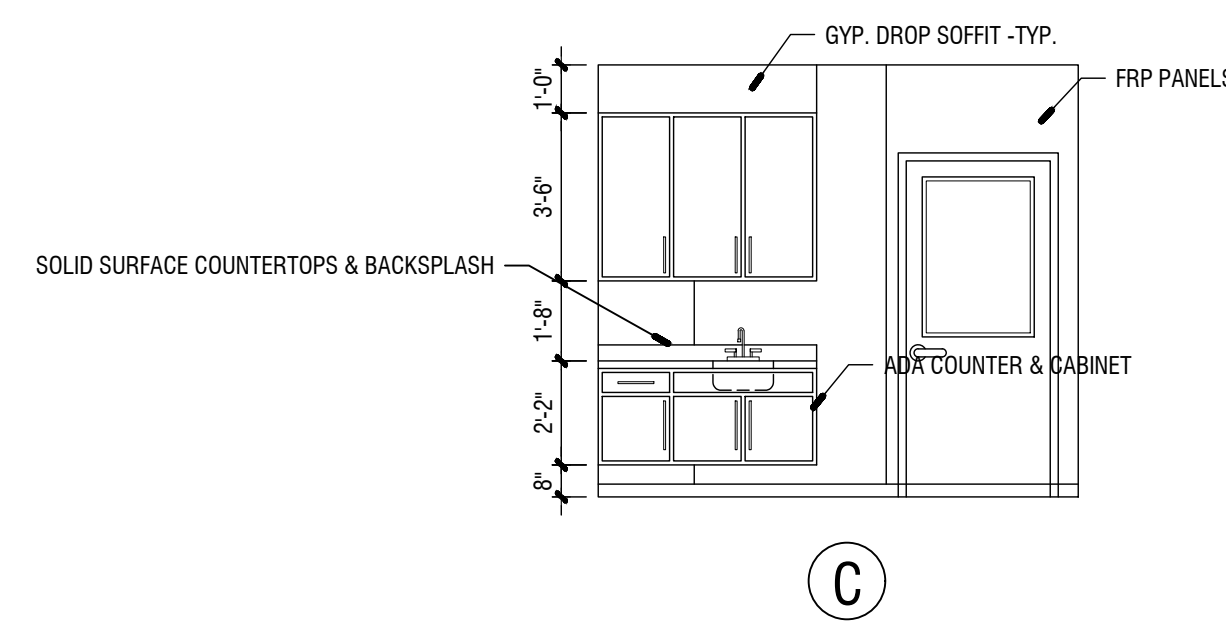
5 AUTOCLAVE 126

1/4" = 1'-0"



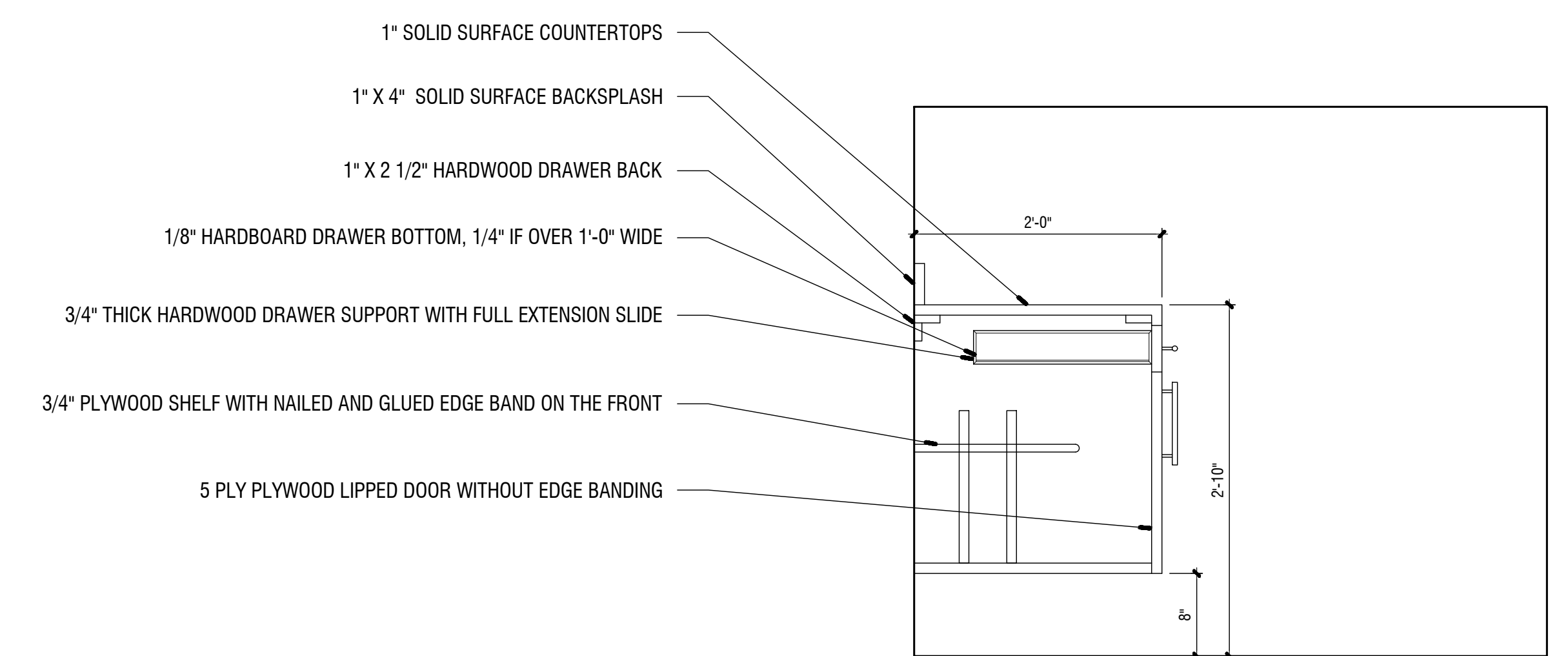
4 TYP. SINK DETAIL

1" = 1'-0"



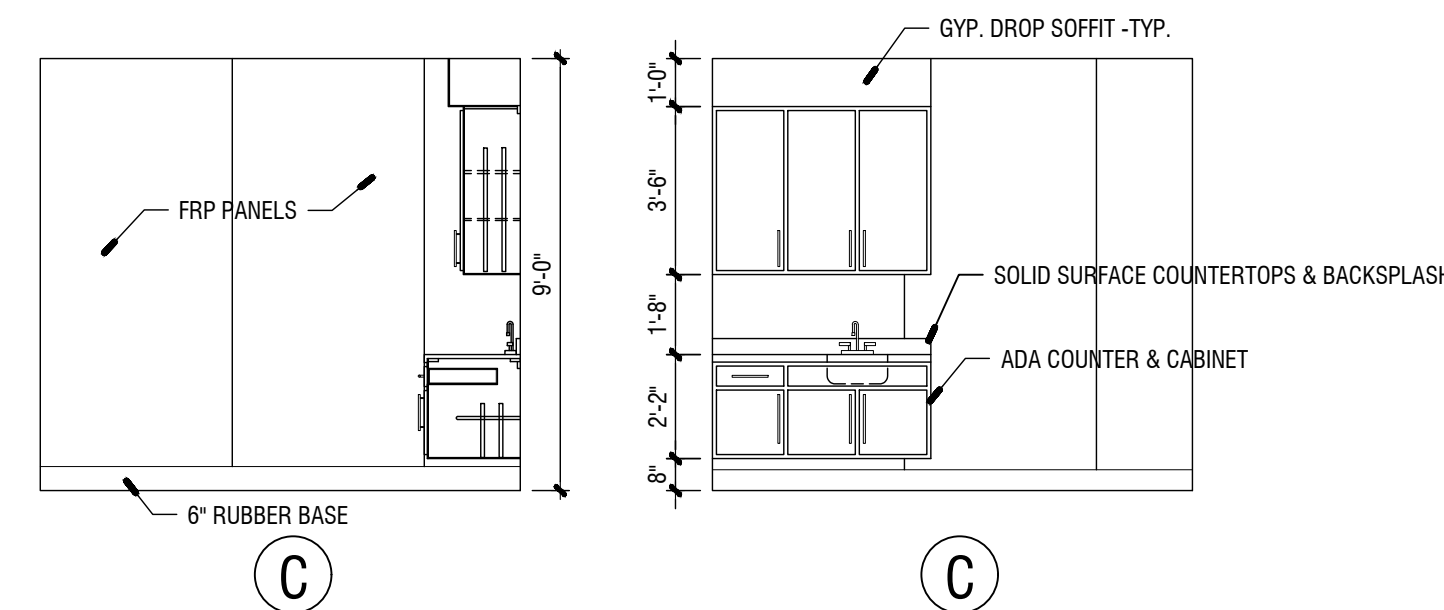
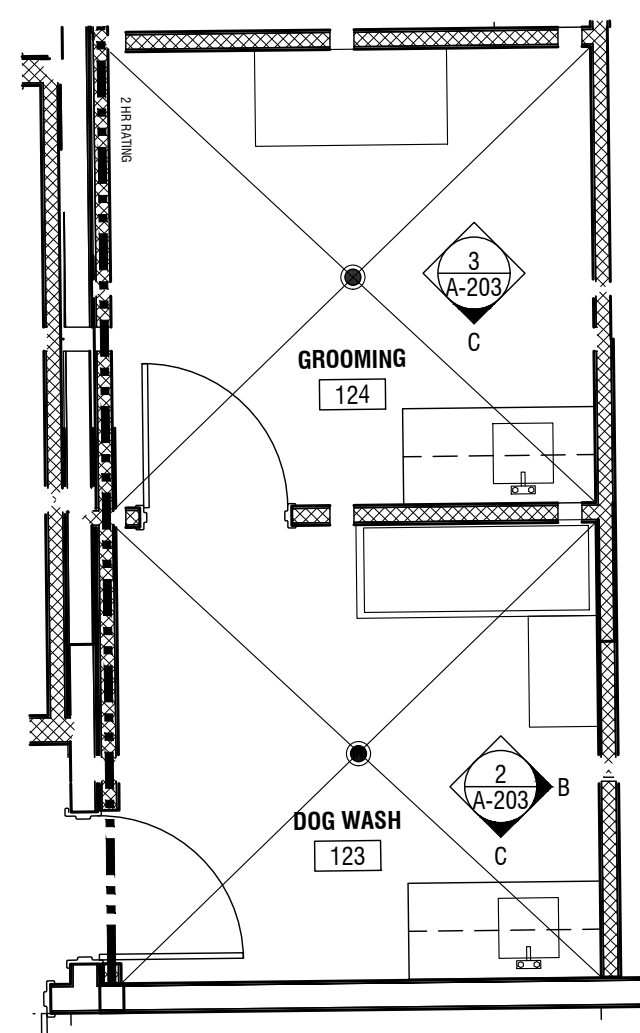
3 GROOMING 124

1/4" = 1'-0"



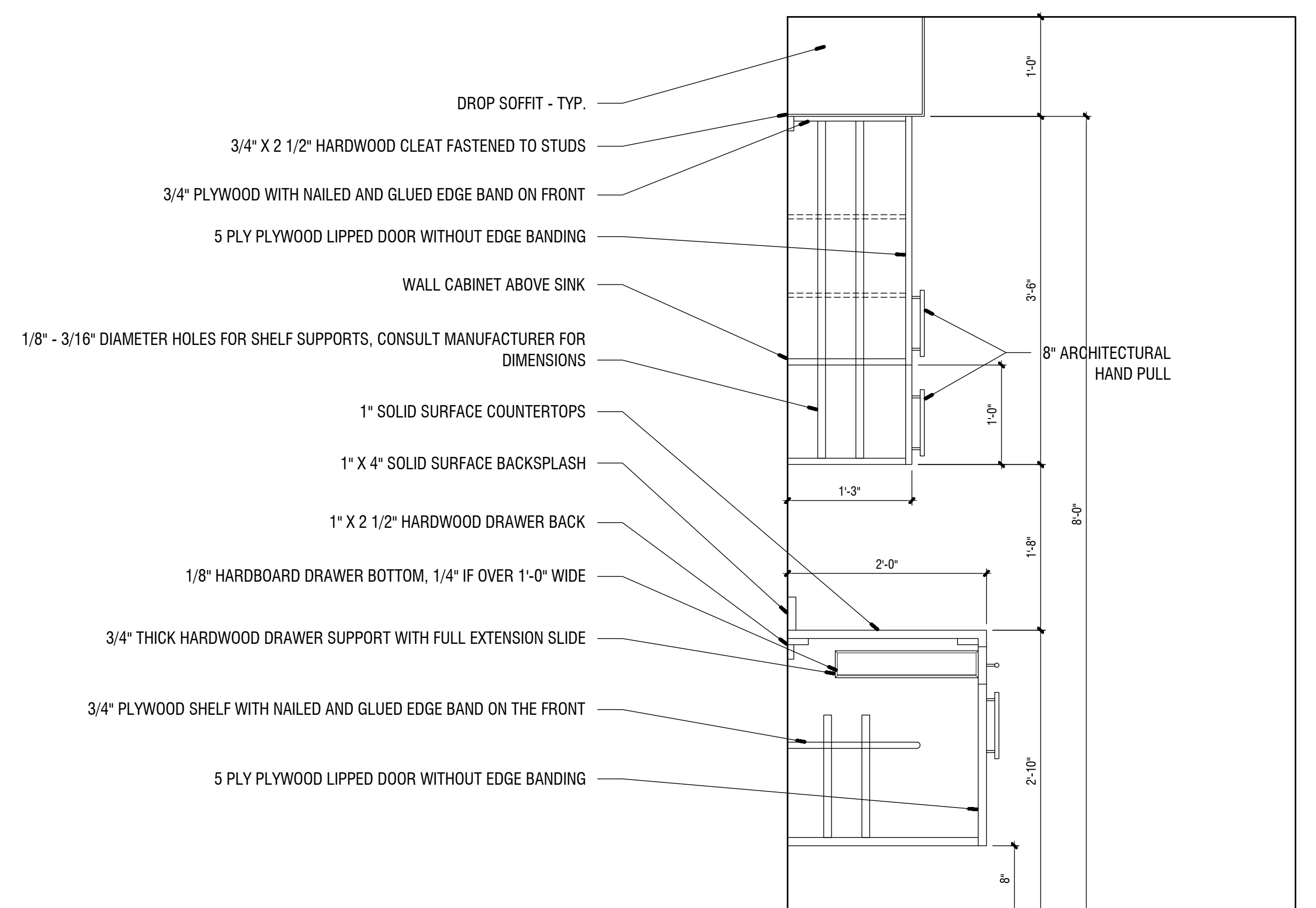
5 TYP. CABINET DETAIL

1" = 1'-0"



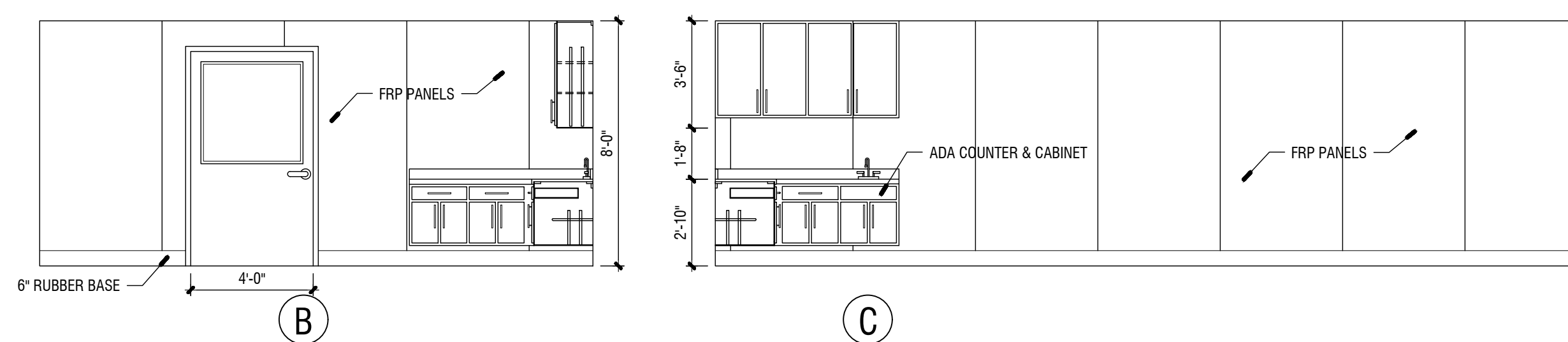
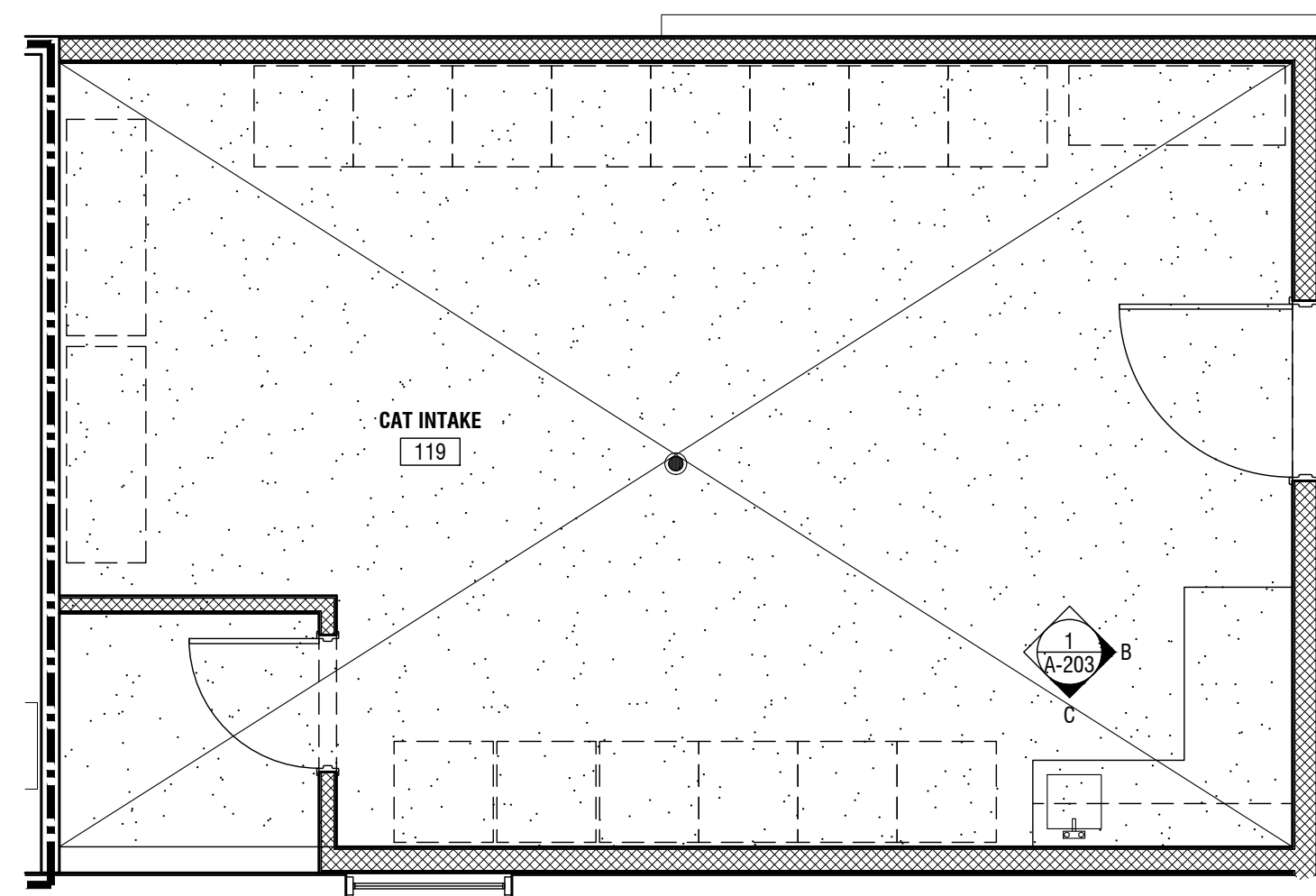
2 DOG WASH 123

1/4" = 1'-0"



6 TYP. COUNTER & CABINET DETAIL

1" = 1'-0"



1 CAT INTAKE 119

1/4" = 1'-0"

REVISIONS					
Number	Date	Remarks	Number	Date	Remarks
1	05.05.21	UPDATED ROOM FINISH SCHEDULE AND WALL TYPES			

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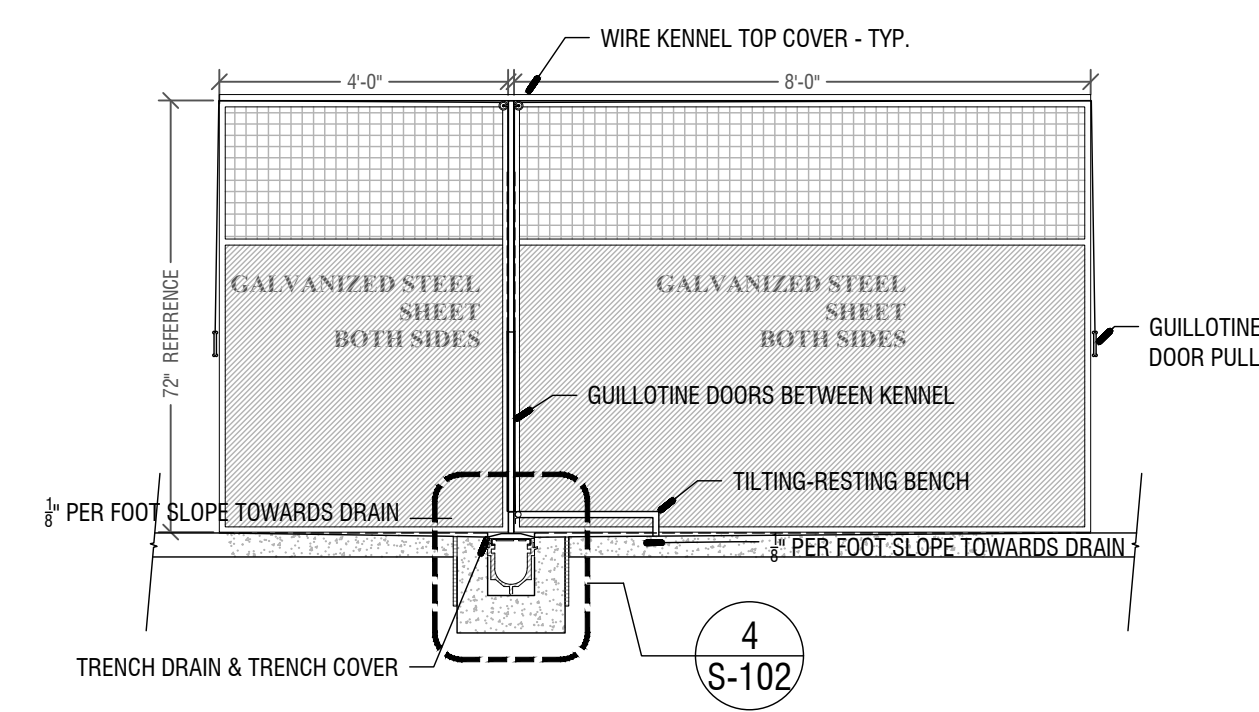
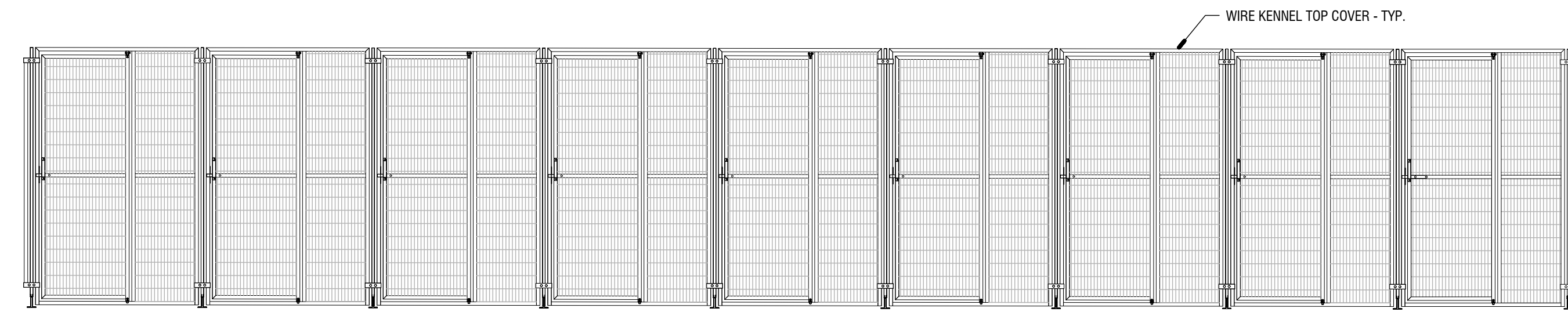
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SEAL

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 JEFFERSON, GEORGIA

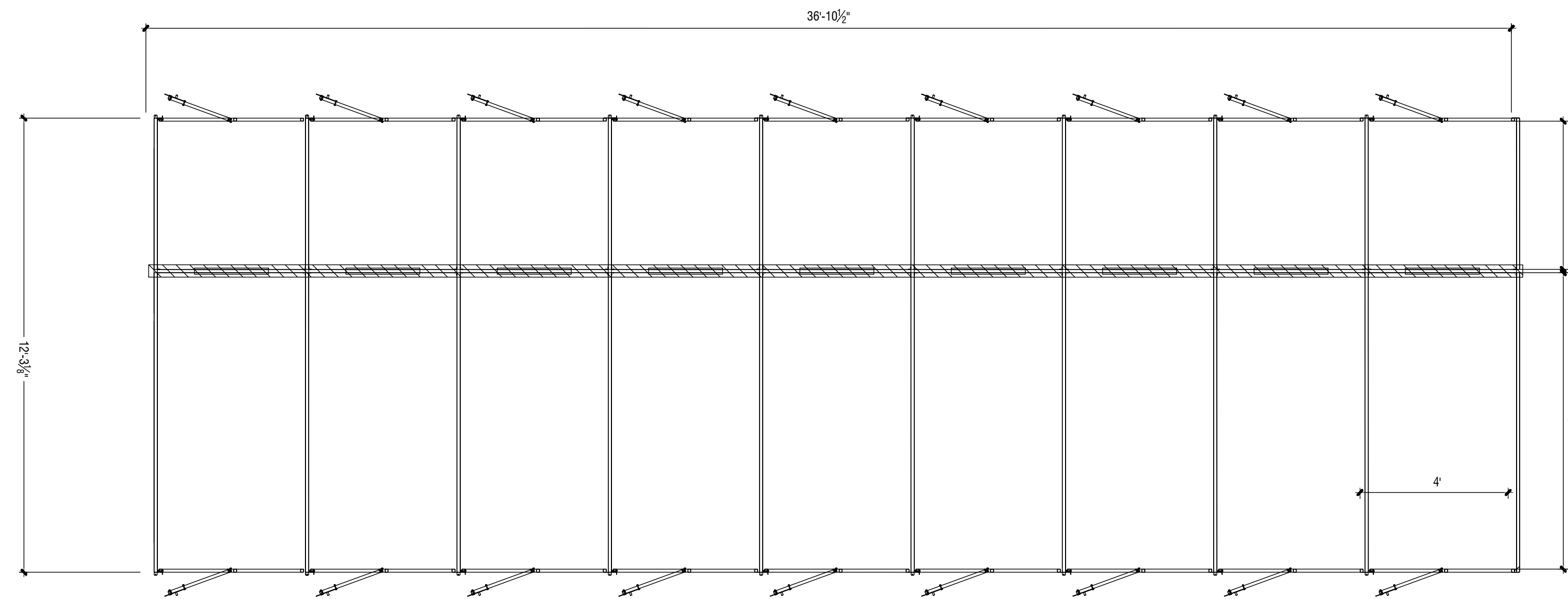
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 INTERIOR ELEVATIONS CONT. A-204
 INTERIOR ELEVATIONS CONT.
 PRINTED:

NUMBER:
A-204



4 KENNEL SECTION

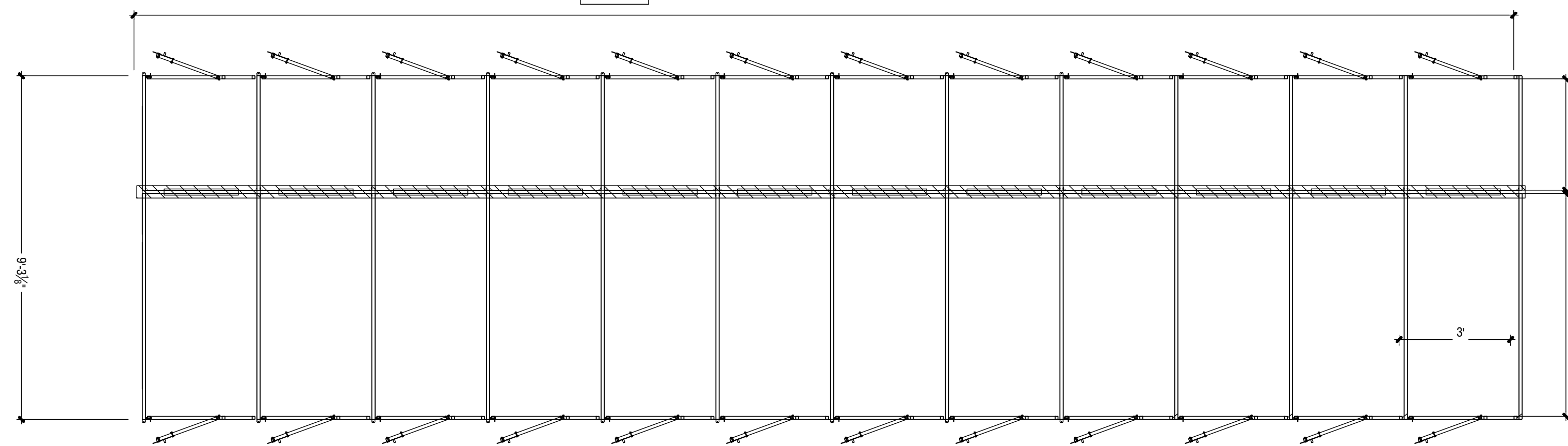
3/8"=1'-0"



DOG KENNELS

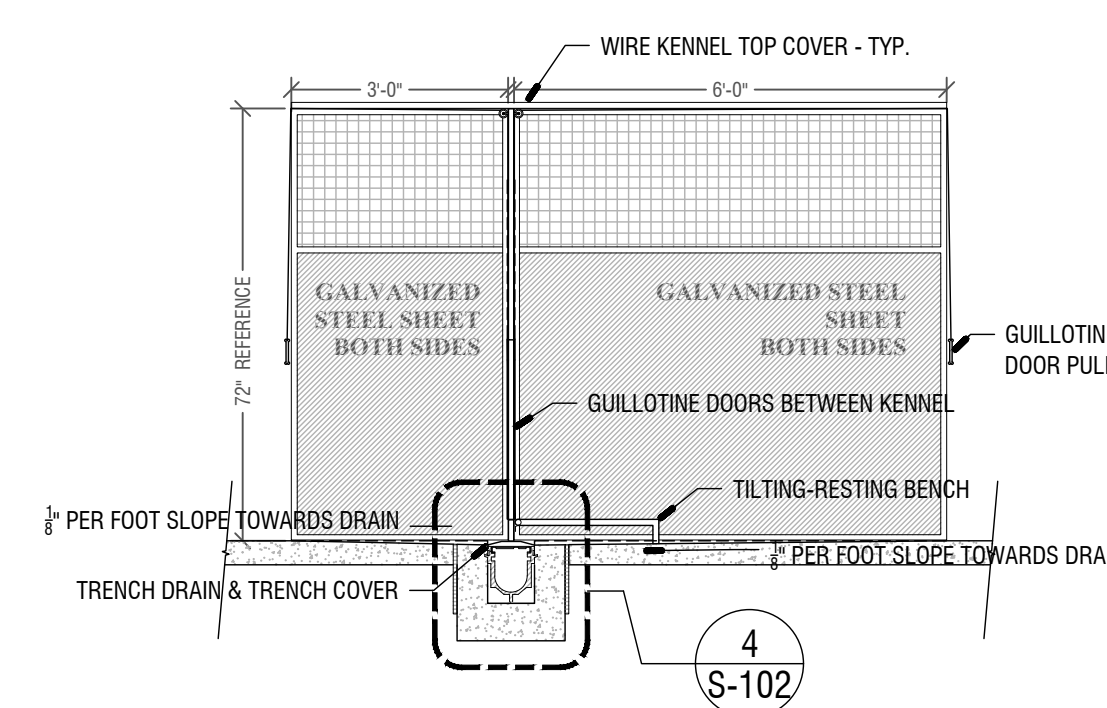
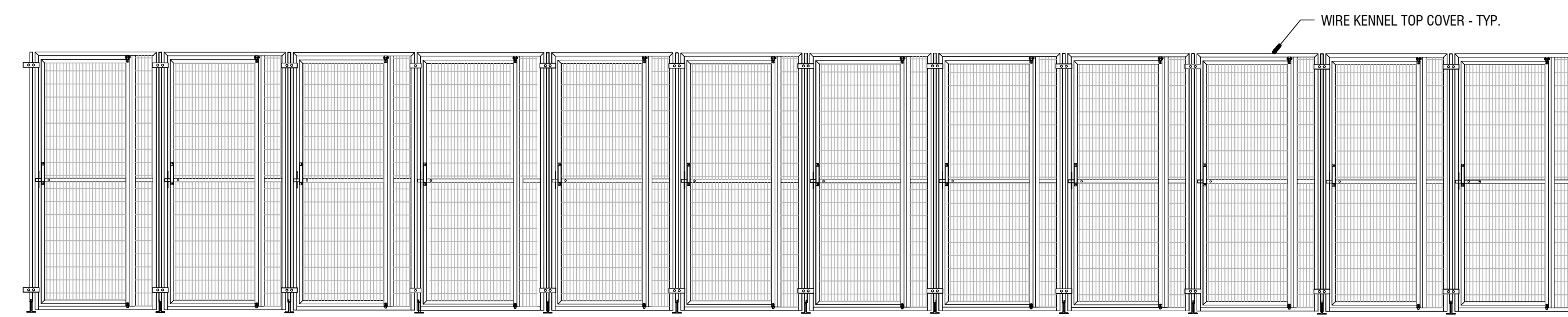
129

37'-4 1/2"



1 KENNEL PLAN

3/8"=1'-0"



3 KENNEL SECTION

3/8"=1'-0"

EQUIPMENT LIST - SEE PROJECT MANUAL FOR DETAILED EQUIPMENT SPECIFICATION

KEY	ITEM	DESCRIPTION	SUPPLIED BY:	INST.BY:
A	MASON COMPANY SANI-KENNEL OR EQ.	3' x 3' BACKED UP TO 3' X 6' MODULES W/ GUILLOTINE DOORS & SIDE PANELS. (36 TOTAL UNITS)	G.C	G.C.
B	MASON COMPANY SANI-KENNEL OR EQ.	4' x 4' BACKED UP TO 4' X 8' MODULES W/ GUILLOTINE DOORS & SIDE PANELS. (18 TOTAL UNITS)	G.C	G.C.

NOTE:

PROVIDE COVER ON TOP OF KENNELS

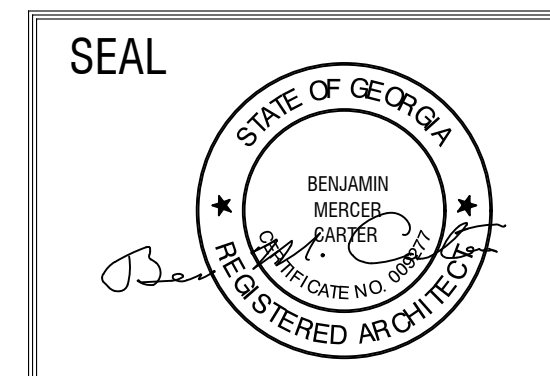
SEE PAGE A-100 AND PROJECT MANUAL FOR DESCRIPTION AND SPECS ON ALL KENNELS AND OTHER EQUIPMENT

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REVISIONS					
Number	Date	Remarks	Number	Date	Remarks
1	05.05.21	UPDATED ROOM FINISH SCHEDULE AND WALL TYPES			

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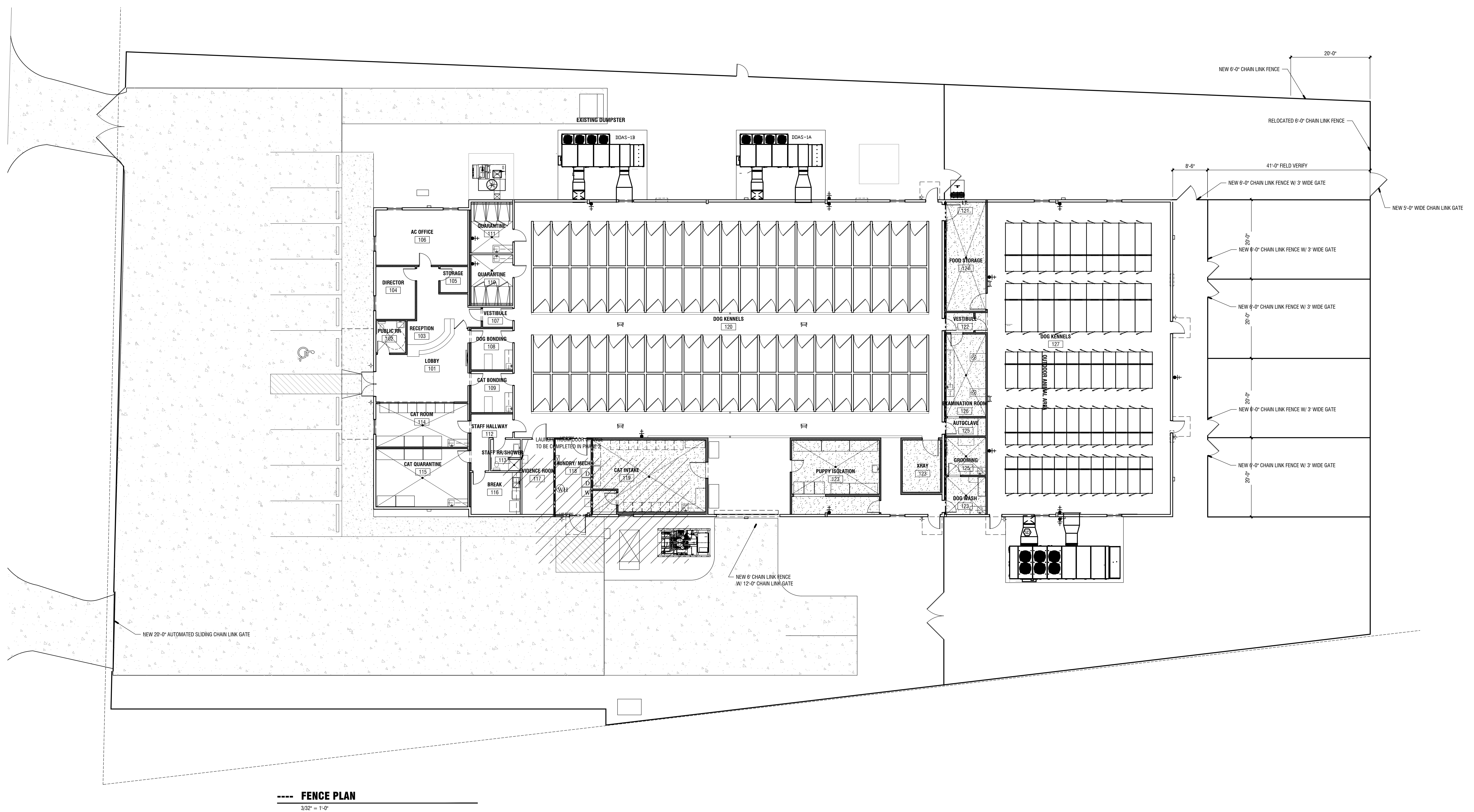
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SHEET TITLE:
 KENNEL DETAILS A-400 KENNEL DETAILS
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JUL 17 2023 1 T:\SHARED CAD Projects\2020 Jackson County Animal Shelter Phase 2\Sheet A-402 FENCE PLAN.dwg

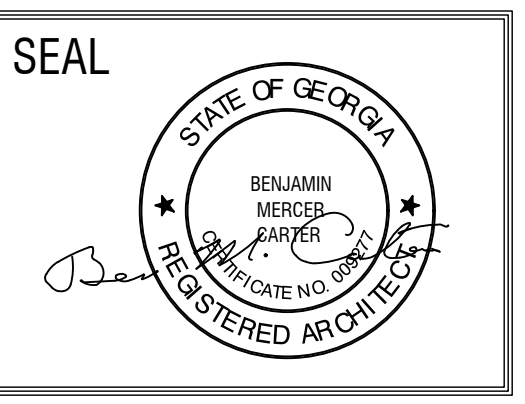


---- FENCE PLAN
3/32" = 1'-0"

REVISIONS					
Number	Date	Remarks	Number	Date	Remarks
1	05.05.21	UPDATED ROOM FINISH SCHEDULE AND WALL TYPES			

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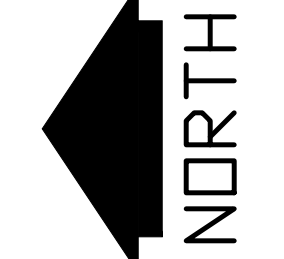
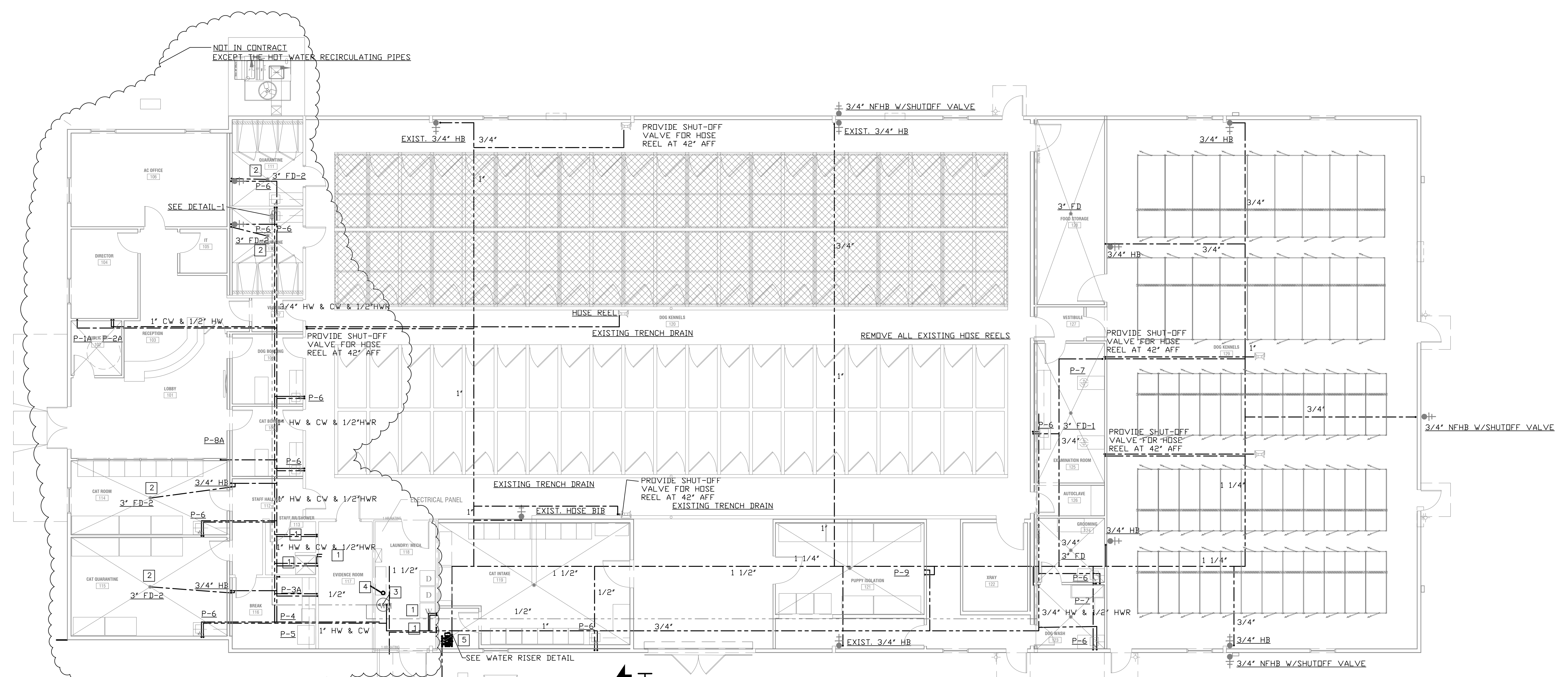
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SHEET TITLE:
 FENCE PLAN A-402 FENCE PLAN
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NUMBER:
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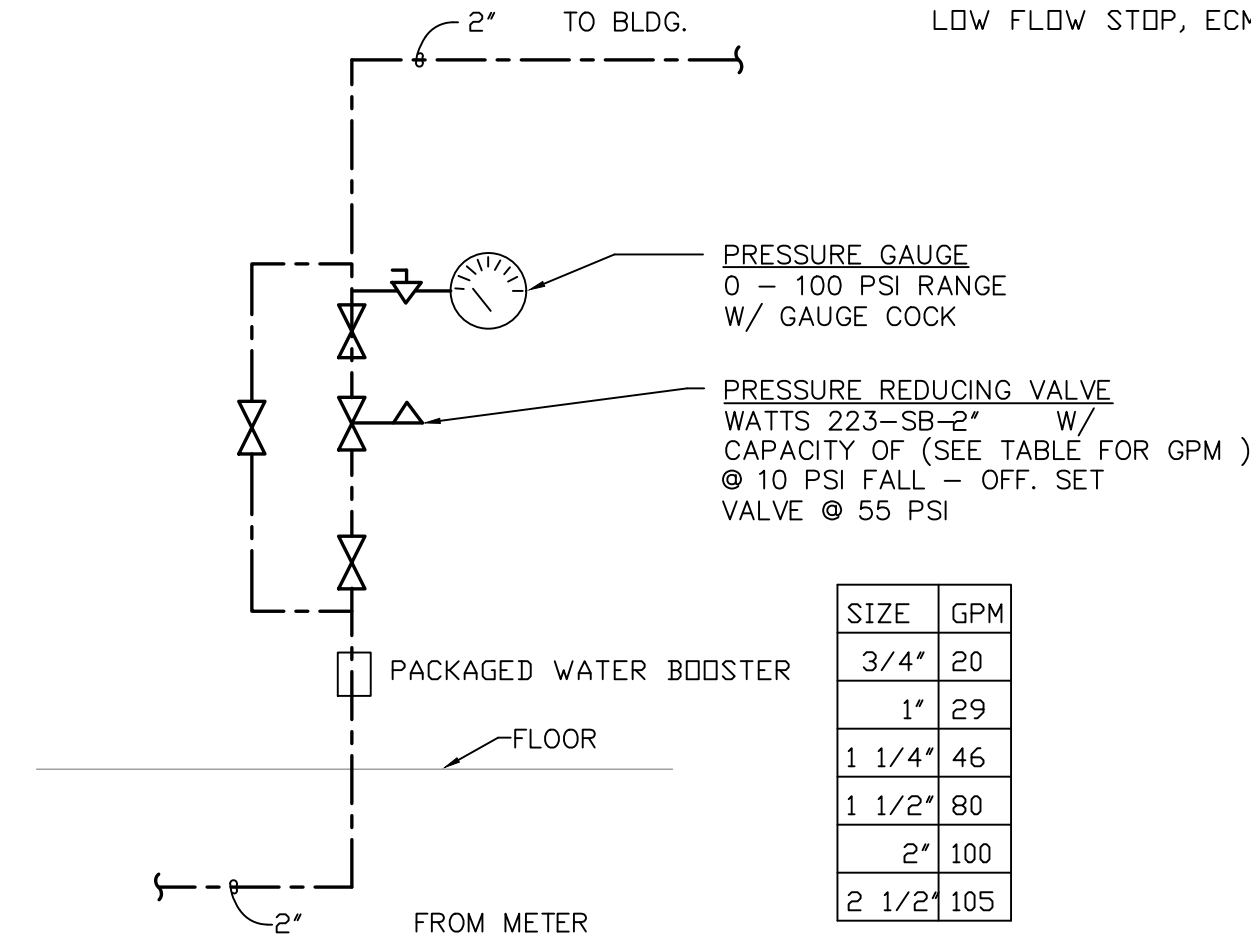
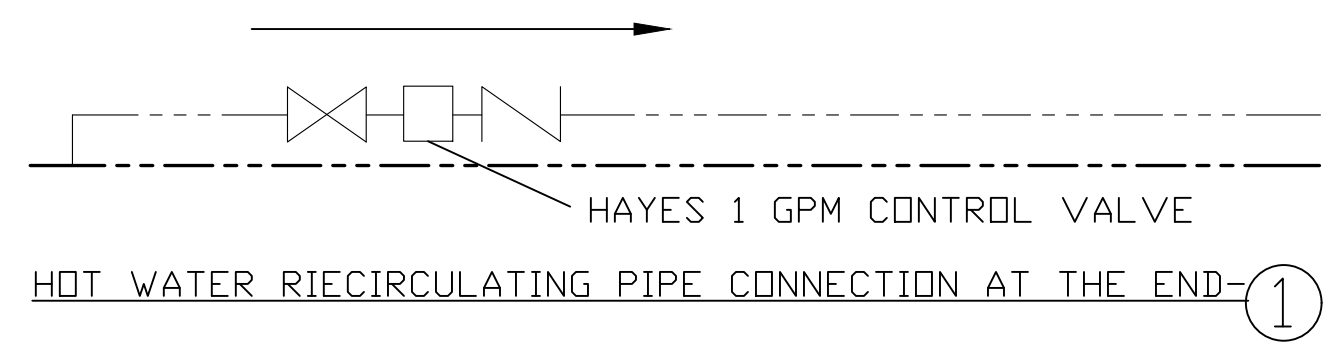


FLOOR PLAN-WATER

1/8"=1'-0"
REMOVE ALL EXISTING WATER LINE.
ALTERNATE WATER PIPING SHALL BE PLEX.

KEY NOTES:

- 1 EXIST. TO REMAIN
- 2 PROVIDE 3/4" WATER TO FLOOR DRAIN FOR FLUSHING AND SHUTOFF VALVE AT THE WALL
- 3 PVC FLUE FULL SIZE OF UNIT CONNECTION THROUGH ROOF OR SIDEWALL.
- 4 6"Ø COMBUSTION AIR DUCT UP THROUGH ROOF.
- 5 GRUNDFOS, HYDROMULTI-E2CRE-10-2 3-208VOLT, 50 GALLONS, 69 FT HEAD, WITH REDUNDANT CAPACITY, PRESSURE AND FLOW CONTROLLER, PRESSURE DIFFERENTIAL, LOW FLOW STOP, ECM MOTOR, WATER BOOSTER PACKAGE WITH CONTROL PANEL.



WATER RISER DETAIL
NO SCALE - SCHEMATIC ONLY

PACKAGED WATER BOOSTER SYSTEM
GRUNDFOS, HYDROMULTI-E2CRE-10-2 3-208VOLT, 50 GALLONS, 69 FT HEAD, WITH REDUNDANT CAPACITY, PRESSURE AND FLOW CONTROLLER, PRESSURE DIFFERENTIAL, LOW FLOW STOP, ECM MOTOR, WATER BOOSTER PACKAGE WITH CONTROL PANEL.

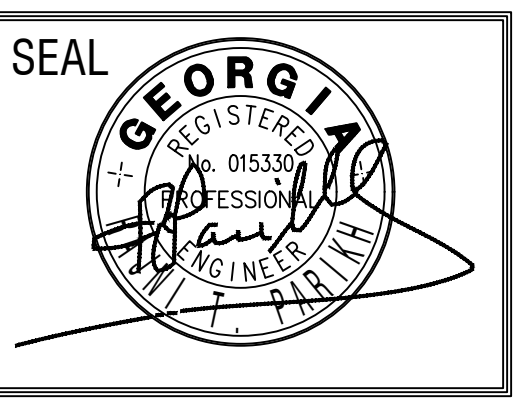
REVISIONS					
Number	Date	Remarks	Number	Date	Remarks
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CONSULTANTS

Date Plotted: Jan 05, 2023 - 12:45pm
File: 2021-001\F2-423.DWG

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JACKSON COUNTY ANIMAL SHELTER
JEFFERSON, GEORGIA

SHEET TITLE:
FLOOR PLAN - WATER
DETAILS
PRINTED: 06/05/23

NUMBER:
P-2

JACKSON CO. ANIMAL SHELTER PRINTED DATE: 06/05/23

PLUMBING FIXTURE SCHEDULE

PROVIDE WATTS * 1/2"MMV-UT* THERMOSTATIC MIXING VALVE UNDER EACH SINK AND LAVATORY TO ADJUST MIXED WATER TEMPERATURE TO PREVENT SCALD.

PROVIDE EACH BATHROOM HOSE BIB UNDER THE LAVATORY FOR HOUSEKEEPING PURPOSES.

P-1A FLOOR MOUNTED WATER CLOSETS (FLUSH VALVE TYPE) (HANDICAP)-BATTERY OPERATED		
FIXTURE	3461.528	*AMERICAN STANDARD* 16 " HIGH ELONGATED MADERA FLOWISE 1.28 GPF VITREOUS CHINA WATER SAVER, SIPHON JET FLUSHING ACTION, 1 1/2" TOP SPUD SUPPLY, BOLTS, AND CAPS. WATER SENSE
SEAT	521/5905100	*BENEKE/AMERICAN STANDARD* EXTRA HEAVY DUTY SOLID PLASTIC SEAT WITHOUT COVER.
SUPPLY		*AMERICAN STANDARD* SELECTRONIC BATTERY OPERATED FLUSH VALVE, 1.28 GPF
ALTERNATE: P-1A FLOOR MOUNTED WATER CLOSETS (FLUSH VALVE TYPE) (HANDICAP) AC POWERED		
FIXTURE	3043.712	*AMERICAN STANDARD* 16 " HIGH ELONGATED MADERA FLOWISE 1.28 GPF VITREOUS CHINA WATER SAVER, SIPHON JET FLUSHING ACTION, 1 1/2" TOP SPUD SUPPLY, BOLTS, AND CAPS. WATER SENSE
SEAT	521/5905100	*BENEKE/AMERICAN STANDARD* EXTRA HEAVY DUTY SOLID PLASTIC SEAT WITHOUT COVER.
SUPPLY	6067.121	*AMERICAN STANDARD* SELECTRONIC AC POWERED FLUSH VALVE, 1.28 GPF

ALTERNATE:

P-1A TANK TYPE FLOOR MOUNTED WATER CLOSETS (HANDICAP)		
FIXTURE	215FA104	*AMERICAN STANDARD* CADET 16 1/2" HIGH ELONGATED VITREOUS CHINA, SIPHON JET WITH CLOSED COUPLED TANK CADET TOILET WITH SUPPLY AND CAPS. (MAX. 1.28 GPF)
TANK TRIP LEVER	4188B105	RIGHT HAND TRIP LEVER TRIP LEVER MUST BE ON WIDE SIDE OF TOILET
SEAT	521	*BENEKE* HEAVY DUTY SOLID PLASTIC SEAT WITH/WITHOUT COVER.
SUPPLY	VA13 LF165	*EBC* *MCGUIRE
P-2A 20" x 18" WALL HUNG LAVATORY (HANDICAP)		
FIXTURE	0355.012	*AMERICAN STANDARD* VITREOUS CHINA, FRONT OVERFLOW AND INTEGRAL BACK, 4" FAUCET/ HOLES AND 0.5 GPM AERATOR.
FAUCETS	S-20-TPS	*SYMMONS* SINGLE LEVER FAUCET WITH AERATOR.
FAUCETS TRIP LEVER AND POP-UP HOLE.	2175.504	*AMERICAN STANDARD* COLONY LESS POP-UP DRAIN
DRAIN	SG7WC	*EBC* OFFSET DRAIN WITH BRASS PERFORATED GRID DRAIN.
TRAP	TA125	*EBC* 1 1/4" P TRAP WITH CAST BRASS NUTS AND CLEANOUTS PLUG.
SUPPLY	VA13	*EBC*
HANDI LAV-GUARD INSULATION KIT.		
LAVATORY WALL HUNG SUPPORT:		
JAY R. SMITH FIG. #700 FOR MASONRY WALLS AND #700-M31 FOR METAL DR WOOD STUD WALLS.		
P-3A 33" X 26" X 6 1/2" DOUBLE COMPARTMENT KITCHEN SINK (1174-KS WILL NOT WORK WITH SPRAYER)		
FIXTURE	DL-ADA-2233-A-GR	*JUST* SELF RIMMING TYPE STAINLESS STEEL DOUBLE COMPARTMENT KITCHEN SINK
FAUCET	J-902	SINGLE LEVER WASHERLESS MIXING FAUCET WITH ESCUTCHEON AND 8" SPOUT AERATOR AND SPRAYER
DRAIN	J-ADA-35	STAINLESS STEEL CUP STRAINER WITH REMOVABLE STAINLESS STEEL BASKET. BASKET HAS RUBBER SEAT STOPPER. 1 1/2" OD CHROME PLATED BRASS OFFSET TAILPIECE.
SUPPLY	VA13	*EBC*

CONTRACTOR SHALL NOT PURCHASE SINK WITHOUT VERIFYING WITH CABINET MANUFACTURER AND ARCHITECT. MAKE SURE THAT SINK WILL FIT INTO CABINET COUNTERTOP.

P-4 DISHWASHER

SUPPLIED BY OWNER AND INSTALLED BY THIS CONTRACTOR.

P-5 REFRIGERATOR

FIXTURE	200-1K	*JAMECO* ICE MAKER CONNECTOR BOX KIT WITH BRASS VALVE ASSEMBLY, MOLDED STURDY FACEPLATE AND SCREWS.
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P-6 & P-9 SINGLE COMPARTMENT SINK

See equipment plan drawing A-101-EQ 10

SUPPLY	VA13	*EBC*
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P-7 BATHING TABLE

See equipment plan drawing A-101-EQ 10

SUPPLY	VA13	*EBC*
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TRENCH DRAIN

48" WIDE AND 19.68" TRENCH DRAIN GRATES AND CATCH BASINS

MIFAB T1500-PG-ADA

TRENCH DRAIN

MIFAB-T300-6" WIDE, 2-7/8" DEEP PLOY POLYPROPYLENE TRENCH DRAIN SYSTEM

GAS WATER HEATER

A.D. SMITH MODEL BT-80 -75 US GALLON CAPACITY, 76,000 BTUHR GAS INPUT, 74 GASLONS/HR RECOVERY AT 100 DEG. F RISE.

CO-EXPOSED CLEANOUT-UNFINISHED AREAS:

JAY R. SMITH FIG. 4470 CAST BRONZE COUNTERSINK PLUG WITH SLOT TO RECEIVE 1/2" THICK STEEL BAR STOCK.

WCO-WALL CLEANOUT - FINISHED AREAS:

JAY R. SMITH FIG. 4436 CAST IRON FERRULE FOR NO HUB DR SERVICE WEIGHT PIPE . NICKEL BRONZE ROUND FRAME AND COVER WITH SECURING SCREWS.

ECO-CONCRETE FLOORS:

JAY R. SMITH FIG. 4238L CAST IRON CLEANOUT WITH GASKET SEAL, THREADED PLUG FOR EASY REMOVAL, ADJUSTABLE ROUND CAST IRON TOP WITH SECURING SCREWS. SPEEDI -SET OUTLET CONNECTION.

ECO-TILE FLOORS:

JAY R. SMITH FIG. 4151 CAST IRON CLEANOUT WITH GASKET SEAL, THREADED PLUG FOR EASY REMOVAL, ADJUSTABLE ROUND NICKEL BRONZE TOP RECESSED FOR TILE WITH SECURING SCREWS. SPEEDI -SET OUTLET CONNECTION.

ECO-CARPETED FLOORS:

JAY R. SMITH FIG. 4031-Y CAST IRON CLEANOUT WITH GASKET SEAL, THREADED PLUG FOR EASY REMOVAL, ADJUSTABLE ROUND NICKEL BRONZE TOP COMPLETE WITH STAINLESS STEEL CARPET MARKER WITH SECURING SCREWS. SPEEDI -SET OUTLET CONNECTION.

YCO-EXTERIOR PAVED/CONCRETE AREAS:

JAY R. SMITH FIG. 4261-U. CAST IRON FLANGED HOUSING WITH HEAVY DUTY CAST IRON COVER , LIFTING DEVICE. GASKET SEAL THREADED PLUG, V. P. SCREWS IN COVER.

YCO-EXTERIOR UNSURFACED AREAS:

JAY R. SMITH FIG. 4261-U. CAST IRON FLANGED HOUSING WITH HEAVY DUTY CAST IRON COVER , LIFTING DEVICE. GASKET SEAL THREADED PLUG, V. P. SCREWS IN COVER. CLEANOUT SHALL BE SET IN 24" X 12" CONCRETE PAD FLUSH WITH SURFACE.

3" FD- EXAM. AND FOOD

JAY R. SMITH FIG. 2210-03-P-050 ROUND TOP AND NO HUB OUTLET WITH TRAP PRIMER CONNECTION.

3" FD-1-FLOOR DRAINS-PUPPY ISOLATION (UNDER PUPPY CAGES):

JAY R. SMITH FIG. 2508A-03-BB ROUND TOP AND NO HUB OUTLET WITH TRAP PRIMER CONNECTION.

6" FD-2-FLOOR DRAINS-DOG WASH, GROOMING, PUPPY ISOLATION:

JAY R. SMITH FIG. 2508A-06-BB ROUND TOP AND NO HUB OUTLET WITH TRAP PRIMER CONNECTION.

LAVATORY WALL HUNG SUPPORT:

JAY R. SMITH FIG. #700 FOR MASONRY WALLS AND #700-M31 FOR METAL DR WOOD STUD WALLS.

NFBH WALL HYDRANT EXPOSED:

JAY R. SMITH FIG. 56090T NON-FREEZE 3/4" CAST BRONZE HYDRANT WITH BRONZE CASING, INTEGRAL VACUUM BREAKER, CHROME PLATED FACE , AND SIZED IN ACCORDANCE WITH WALL THICKNESS. PROVIDE WITH KEY HANDLE.

HB-HOSE BIB:

WOODFORD #24/MIFAB HY-9040 V/HY-9000 HOSE BIB FOR INSIDE USE WITH VACUUM BREAKER, BACKFLOW PREVENTER.

BACKFLOW PREVENTER:

BACKFLOW PREVENTER AT BEVERAGE, COFFEE AND TEA MACHINE ETC.

WATTS 98D

PROVIDE WATER FILTER FOR BEVERAGE, COFFEE, TEA, AND ICE MACHINE.

PLUMBING GENERAL NOTES

- CONTRACTOR SHALL BRING TO THE ATTENTION OF ARCHITECT ANY CONFLICTS OF WORK PRIOR TO PURCHASE OF EQUIPMENT OR COMMENCEMENT OF WORK.
- CONTRACTOR SHALL VISIT THE JOB SITE AND HAVE A GOOD WORKING KNOWLEDGE AND ACQUAINTANCE OF THE EXISTING JOB SITE AS WELL AS THE CONDITIONS OF THE JOB SITE AND INCLUDE A STATEMENT ON HIS BID THAT HE HAS DONE SO.
- REQUEST FOR PAYMENT FOR ADDITIONAL COSTS DUE TO SITE CONDITIONS WILL NOT BE ALLOWED.
- FURNISH ALL PLAN, LABOR, EQUIPMENT, EXCEPT AS OTHERWISE INDICATED AND AGREED UPON, AND MATERIALS AS INDICATED, AND PERFORM ALL OPERATIONS IN CONNECTION WITH THE INSTALLATION OF A COMPLETE PLUMBING SYSTEM.
- THE WORK UNDER THIS SECTION SHALL COMPLY AS MINIMUM REQUIREMENTS WITH APPLICABLE LAWS, ORDINANCES, CODES, AND REGULATIONS OF THE COUNTY, STATE, AND CITY WHERE INSTALLED. WHERE THE REQUIREMENTS OF THESE SPECIFICATIONS ARE MORE THAN RESTRICTIVE THAN APPLICABLE CODES AND REGULATIONS DESCRIBED ABOVE, THE REQUIREMENTS OF PLANS AND SPECIFICATIONS SHALL BE MET.
- PLUMBING CONTRACTOR SHALL OBTAIN ALL PERMITS AND INSPECTIONS REQUIRED FOR THE INSTALLATION OF THIS WORK AND PAY ALL CHARGES INCIDENT THERETO. HE SHALL DELIVER TO THE ARCHITECT CERTIFICATES OF SAID INSPECTIONS ISSUED BY PROPER AUTHORITIES. HE SHALL PAY ALL COSTS FOR PERMITS AND INSPECTIONS AS REQUIRED BY GOVERNING AUTHORITY.
- REQUIRED INSURANCE SHALL BE PROVIDED BY THE CONTRACTOR FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF WORK.
- VERIFY LOCATION, SIZE, INVERTS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION. ADVISE ENGINEER OF ANY DISCREPANCIES.
- FURNISH TWO BROCHURES CONTAINING CATALOG CUTS AND DATA ON PLUMBING FIXTURES, WATER HEATER AND SPECIFY ITEMS, AS WELL AS WARRANTIES AND GUARANTIES PERTAINING THERETO.
- PROTECT ALL PLUMBING EQUIPMENT AND MATERIALS AGAINST DAMAGE. COMPLETED SYSTEM SHALL BE FREE FROM BLOCKAGE, DEBRIS, AND OBSTRUCTIONS.
- PROVIDE THE OWNER WITH A WRITTEN AND CERTIFIED GUARANTEE FOR THE COMPLETED WORK COVERING A PERIOD OF ONE YEAR, STARTING FROM THE DAY OF FINAL ACCEPTANCE BY THE OWNER OF THE COMPLETED AND APPROVED SYSTEMS.
- ELECTRICAL EQUIPMENT SHALL BE FURNISHED AND WIRED FOR THE ELECTRICAL CHARACTERISTICS CALLED FOR IN ELECTRICAL PLANS AND SPECIFICATIONS.
- PROVIDE CHROME PLATED FLOOR, WALL AND CEILING PLATES AT EACH EXPOSED POINT WHERE PIPES PASS THROUGH FLOOR, WALL AND/OR CEILING.
- ALL WATER PIPING AND ALL RELATED VALVES, FITTINGS, AND JOINTS SHALL BE INSULATED WITH 1/2" COLD AND 1" HOT WATER DENSITY FIBERGLASS WITH FKS SELF-SEALING LAP.
- JOINT JACKET, JOINTS AND FITTINGS SHALL BE DONE IN ACCORDANCE WITH RECOMMENDATIONS OF MANUFACTURER SUPPLYING THE INSULATION. INSULATION MATERIALS, INCLUDING INSULATION CLOTHS, CEMENTS, JACKETS, FACINGS, ADHESIVES, MASTIC, TAPES, AND OTHER ACCESSORIES SHALL HAVE COMPOSITE FIRE AND SMOKE HAZARD RATING AS TESTED BY UL. PROCEDURE U1723, NOT EXCEEDING FLAME SPREAD RATING OF 25 AND SMOKE DEVELOPED RATING OF 50. USE OF WATER SOLUBLE TREATMENTS TO ACHIEVE THESE RATINGS IS NOT ACCEPTABLE.
- WATER PIPING BELOW FLOOR SLAB ON EARTH AND OUTSIDE SHALL BE TYPE "L" HARD COPPER WITH WROUGHT COPPER FITTINGS MADE USING LEAD FREE SOLDER JOINTS. PIPE SUBJECT TO CORROSION DUE TO SALTY DIRT SHALL RUN INSIDE THE PVC PIPE JACKET.
- INSIDE WATER PIPING SHALL BE TYPE "M" COPPER WITH WROUGHT COPPER FITTINGS MADE USING LEAD FREE SOLDER JOINTS. PLASTIC WATER PIPE WILL NOT BE APPROVED.
- ALTERNATE: PLEX PIPES
- SOIL, WASTE, AND VENT PIPING SHALL BE SCHEDULE 40 DWV PVC PLASTIC PIPE WITH SOLVENT WELDED JOINTS FOR ALL SOIL, WASTE AND VENT PIPING. PLASTIC PIPE MAY ONLY BE USED IF APPROVED BY PLUMBING AND FIRE CODES. PLASTIC PIPE OR ANY COMBUSTIBLE MATERIAL SHALL NOT BE USED IN THE RETURN AIR CEILING FLENUM.
- NO VENTS OR OTHER PIPES SHALL BE VISIBLE FROM THE FRONT OF THE BUILDING.
- GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL ASTM A53 OR ASTM 106 WITH MALLEABLE IRON SCHEDULED FITTINGS. ALL PORTIONS OF GAS PIPING UNDERGROUND OR IN FLOOR SLAB SHALL HAVE ASPHALTIC COATING EQUAL TO SOUTHERN WF-1. GAS PIPING RUN IN CONCRETE FLOOR SLAB SHALL HAVE AT LEAST 2" OF CONCRETE ON ALL SIDES. WALLS OR ENCLOSED SPACES WHERE GAS IS RUN SHALL BE VENTED WITH APPROVED GRILLES, OR CONDUIT TO OUTSIDE.
- FLEXIBLE CONNECTORS SHALL BEAR THE LABEL OF AN APPROVED AGENCY. THE CONNECTORS SHALL BE A MINIMUM OF SIX FEET IN LENGTH.
- GAS PIPING SHALL BE IDENTIFIED AS AN NATURAL GAS PIPING. IDENTIFICATION SHALL BE IN THE FORM OF A TAG, STENCIL, OR OTHER PERMANENT MARKING, SPACED AT INTERVALS OF NOT MORE THAN 25 FEET AND NOT LESS THAN ONCE IN ANY ROOM OR SPACE.
- PIPE JOINTS SHALL BE THREADED, FLANGED OR WELDED. JOINT COMPOUND SHALL BE RESISTANT TO THE ACTION OF LIQUIDIFIED PETROLEUM GAS OR TO ANY OTHER CHEMICAL CONSTITUENTS OF THE GAS TO BE CONDUCTED THROUGH THE PIPING.
- JOINTS BETWEEN DIFFERENT METALLIC PIPING MATERIALS SHALL BE MADE WITH APPROVED DIELECTRIC FITTINGS TO ISOLATE, ELECTRICALLY ABOVE GROUND PIPING FROM UNDERGROUND PIPING OR TO ISOLATE, ELECTRICALLY DIFFERENT METALLIC PIPING MATERIALS JOINED UNDERGROUND.
- CONCEALED GAS PIPING SHALL NOT BE LOCATED IN SOLID PARTITIONS AND SOLID WALLS, UNLESS INSTALLED IN A CHASE OR CASING.
- PORTION OF GAS PIPING SYSTEM INSTALLED IN A CONCEALED LOCATIONS SHALL NOT HAVE UNIONS, TUBING FITTINGS, RIGHT AND LEFT COUPLINGS, BUSHINGS, COMPRESSION COUPLINGS AND SWING JOINTS MADE BY COMBINATIONS OF FITTINGS.
- UNDERGROUND PIPING WHERE INSTALLED BELOW GRADE THROUGH OUTER FOUNDATION OR BASEMENT WALL OF BUILDING, SHALL BE ENCASED IN A PROTECTIVE PIPE SLEEVE. THE ANNULAR SPACE BETWEEN THE GAS PIPING AND THE SLEEVE SHALL BE SEALED.
- PROTECT PIPES WITH SHIELD PLATES AS PER FUEL GAS CODE SECTION 404.5
- ALL GAS PIPING INSTALLED OUTDOOR SHALL BE ELEVATED NOT LESS THAN 3 1/2" ABOVE THE GROUND AS PER FUEL GAS CODE SECTION 404.7
- ALL GAS PIPING SHALL BE PROTECTED FROM CORROSION AS PER FUEL GAS CODE SECTION 404.8
- GAS PIPING SHALL BE INSTALLED MINIMUM DEPTH OF 12 INCHES BELOW GRADE.
- GAS PIPING SHALL NOT BE INSTALLED BENEATH BUILDING EXCEPT WHERE PIPING IS ENCASED IN A CONDUIT OF WROUGHT IRON, PLASTIC PIPE OR STEEL PIPE DESIGNED TO WITHSTAND THE SUPERIMPOSED LOADS AS PER FUEL GAS CODE SECTION 404.11
- ALL GAS PIPING SHALL BE INSPECTED, TESTED AND PURGED AS PER FUEL GAS CODE SECTION 406.
- GAS PIPING OTHER THAN DWV SHALL BE COVERED NOT LESS THAN

- CONTRACTOR SHALL NOT INSTALLED ANY PIPING OR FIXTURES WHICH WILL BE IMPEDIMENT TO THE TRAFFIC.
- DO NOT RUN PIPING OR DUCT-WORK OR LOCATE EQUIPMENT WITH RESPECT TO SWITCHBOARDS, PANEL BOARDS, POWER PANELS, MOTOR CONTROL CENTERS OR DRY TYPE TRANSFORMERS WITHIN 42" IN FRONT OF EQUIPMENT, DRYER EQUIPMENT, OR WITHIN 36" HORIZONTALLY OF SAME SPACE.
- THIS CONTRACTOR SHALL GIVE ALL ELECTRICAL AND MECHANICAL INFORMATION PERTAINING TO PLUMBING EQUIPMENT TO ELECTRICAL AND MECHANICAL CONTRACTORS BEFORE FINAL CONTRACT SO THAT ELECTRICAL AND MECHANICAL CONTRACTOR INCLUDE IN HIS CONTRACT. CONTRACTOR SHALL NOT PURCHASE ANY EQUIPMENT WITHOUT WRITTEN APPROVAL FROM ELECTRICAL AND STRUCTURAL ENGINEERS AND CONTRACTORS.
- ALL WATER PIPES SHALL BE IDENTIFIED WITH PIPE MARKER LABEL WHICH INCLUDE THE CONTENTS OF THE PIPING SYSTEM AND ARROW OF FLOW DIRECTION AS PER PLUMBING CODE SECTION 608.8
- ALL SANITARY AND STORM PIPES SHALL BE IDENTIFIED WITH PIPE MARKER LABEL WHICH INCLUDE THE CONTENTS OF THE PIPING SYSTEM AND ARROW OF FLOW DIRECTION.
- ALL HORIZONTAL STORM SEWER PIPES SHALL BE INSULATED TO PREVENT CONDENSATION.
- CONTRACTOR MUST VERIFY THE LOCATION OF EXISTING SEWER AND GREASE LINE INCLUDING INVERT ELEVATIONS BEFORE RUNNING ANY PIPES. ENGINEER HAS NO MEANS TO VERIFY EXISTING CONDITIONS. LOCATION OF PIPES IN PLAN MAY NOT MATCH WITH SITE.
- DRAINAGE OUTLET SHALL BE RODENTPROOF AS PER PLUMBING CODE SECTION 304.
- ALL PIPES SUPPORT SHALL BE PROTECTED FROM WEATHER. (PAINT OR STAINLESS STEEL TO PREVENT CORROSION). SEE SECTION 308.
- CONTRACTOR SHALL PROVIDE TRAP PRIMER TO EACH FLOOR DRAIN UNLESS OTHERWISE NOTED. CONTRACTOR SHALL USE TRAP GUARD DRAIN BY PRO-VENT SYSTEMS (1-800-262-5355,) IF IT IS PERMITTED BY THE LOCAL CODE OFFICIAL.
- IT IS CONTRACTOR'S RESPONSIBILITY TO REPLACE ANY ITEM OR EQUIPMENT DAMAGED DURING DEMOLITION. ANY ITEM OR EQUIPMENT OR ITEM THAT IS REMOVED TO FACILITATE THE DEMOLITION SHALL BE REINSTALLED BACK TO ITS ORIGINAL CONDITION, PATCH ALL OPENINGS IN FLOOR, WALLS, CEILING MADE IN ADJACENT AREA THAT ARE NOT BEING DEMOLISHED.
- REMOVE ALL HANGERS, SUPPORTS, AND ACCESSORIES ASSOCIATED WITH ITEMS OR EQUIPMENT BEING DEMOLISHED.
- CONTRACTOR SHALL COORDINATE WITH OWNER TO SCHEDULE ANY UTILITIES SHUTDOWNS. PROVIDE TEMPORARY CONNECTIONS AS REQUIRED TO MAINTAIN ALL NECESSARY SERVICES.
- IF REQUIRED, CONTRACTOR SHALL COORDINATE WITH OWNER TO DETERMINE THE SALVAGE VALUE OF DEMOLISHED ITEMS. RECYCLABLE ITEMS WITHOUT SALVAGE VALUE SHALL BE PRESENTED TO RECYCLING FACILITY.
- PROVIDE CLEAN-OUTS WHERE INDICATED AND WHERE REQUIRED BY CODE. (75 FT FOR 4" PIPE AND 50 FT FOR 3" PIPE. CLEAN-OUT COVER PLATES SHALL BE METAL AND HAVE TOP FLUSH WITH FINISHED WALL, FLOOR OR GRADE. WALL CLEAN-OUTS SHALL BE NO HIGHER THAN 12" ABOVE FLOOR, UNLESS OTHERWISE INDICATED. FOR DWV PVC PLASTIC PIPE SYSTEM, USE CLEAN-OUTS MANUFACTURED BY SMITH, JONESPEC, JOSAM, WADE OR ZURN.
- CONTRACTOR IS TO SUPPLY ALL SAFETY EQUIPMENT AND SUPERVISION REQUIRED TO ASSURE A SAFE CONSTRUCTION SITE. CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL SAFETY INSPECTIONS, SUPERVISION, AND COMPLIANCE WITH ALL APPLICABLE LAWS.
- PIPES PASSING THROUGH CONCRETE OR CINDER WALLS AND FLOORS OR OTHER CORROSIIVE MATERIAL SHALL BE PROTECTED AGAINST EXTERNAL CORROSION BY A PROTECTIVE SHEATHING OR WRAPPING OR OTHER MEANS THAT WILL WITHSTAND ANY REACTION FROM LIME AND ACID CONCRETE, CINDER OR OTHER CORROSIIVE MATERIAL. SHEATHING OR WRAPPING SHALL ALLOW FOR EXPANSION AND CONTRACTION OF PIPING TO PREVENT ANY RUBBING ACTION.
- A SOIL OR WASTE PIPE OR BUILDING DRAIN PASSING UNDER A FOOTING OR THROUGH A FOUNDATION WALL, SHALL BE PROVIDED WITH A PLASTIC FLENUM ARCH. OR THERE SHALL BE BUILT INTO THE MASONRY WALL A PIPE SLEEVE TWO PIPE SIZES GREATER THAN THE PIPE PASSING THROUGH OR AS MAY BE APPROVED IN WRITING BY THE PLUMBING OFFICIAL.
- TRENCHING INSTALLED PARALLEL TO FOOTINGS SHALL NOT EXTEND BELOW THE 45 DEGREE BEARING PLANE OF THE FOOTING OR WALL UNLESS APPROVED BY THE PLUMBING OFFICIAL.
- WHEN CLEAN-OUTS ARE INSIDE THE BUILDING, CLEAN-OUTS SHALL BE ABOVE THE FLOOR AND SMALLER PIPE SHALL BE INSTALLED WITH THE HORIZONTAL PIPE SERVES WHEN PRACTICAL.
- A SHUT OFF VALVE SHALL BE PROVIDED IN THE COLD WATER SUPPLY TO WATER HEATER AND SHALL BE ACCESSIBLE ON THE SAME FLOOR AND WITHIN 3 FT. OF THE HEATER.
- PROVIDE VACUUM BREAKER OR ANTI-SIPHON AT THE WATER HEATER AS PER CODE.
- UNDERGROUND WATER SERVICE PIPE AND THE BUILDING DRAIN OR BUILDING SEWER SHALL NOT BE LESS THAN 5 FT. APART HORIZONTALLY AND SHALL BE SEPARATED BY UNDISTURBED COMPACT EARTH.
- WATER PIPE SHALL BE DISINFECTED AS PER CODE.
- PIPE PENETRATING A FIRE RATED WALL OR FLOOR SHALL BE SEALED WITH THE FIRESTOP SEALANT.
- CONTRACTOR SHALL DESIGN AND PROVIDE THE FIRE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13. PROVIDE DRY SYSTEM WHERE PIPE IS SUBJECT TO FREEZE.
- CONTRACTOR SHALL PROVIDE THERMAL EXPANSION TANK AT THE DOWNSTREAM OF SHUT-OFF VALVE OF THE INLET OF WATER HEATER.
- HORIZONTAL DRAINAGE PIPING SHOULD BE INSTALLED AT A UNIFORM SLOPE. 3" DIAMETER AND SMALLER PIPE SHALL BE INSTALLED WITH A FALL OF NOT LESS THAN 1/4 INCH PER FOOT. 3" DIAMETER AND LARGER PIPE SHALL BE INSTALLED WITH A FALL OF NOT LESS THAN 1/8 INCH PER FOOT. CONTRACTOR SHALL VERIFY THE INVERT ELEVATION OF PIPING WITH CIVIL PLAN BEFORE INSTALLING THE PIPE. SEE PLUMBING CODE SECTION 704, TABLE 704.1
- PROVIDE THE VACUUM BREAKER AT THE FOLLOWING WATER CONNECTION (SECTION 608.15.4.2):
 - HOSE BIBS
- PROVIDE BACK-FLOW PREVENTER AT THE EQUIPMENT WHICH ARE CONNECTED DIRECTLY TO POTABLE WATER SYSTEM, E.G. COFFEE, ICE, TEA, BEVERAGE MACHINES ETC. AS PER SECTION 608.1 TO 608.1.8
- CONTRACTOR SAW CUT THE FLOOR AS NECESSARY AND RE-PATCH THE FLOOR.
- CONTRACTOR SHALL NOT CHANGE ANY PIPING LAYOUT WITHOUT WRITTEN PERMISSION.
- EXPANSION VALVE IS NOT ACCEPTABLE IN LIEU OF EXPANSION TANK.
- WATER PIPING SHALL NOT BE INSTALLED IN THE ATTIC OR UNHEATED AREA UNLESS OTHERWISE NOTED. IF PIPING IS INSTALLED IN THE ATTIC SPACE, THEN CONTRACTOR SHALL GET APPROVAL FROM THE ENGINEER.
- CONTRACTOR SHALL NOT INSTALL ANY PIPING OR FIXTURES

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REVISIONS					
Number	Date	Remarks	Number	Date	Remarks
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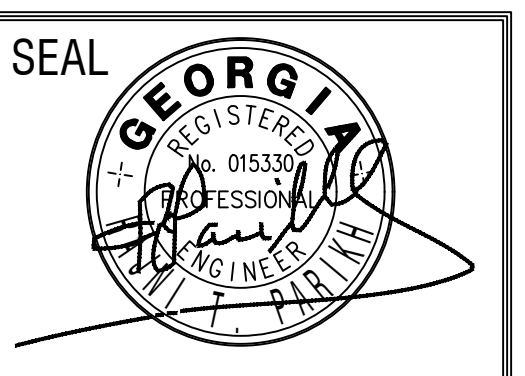
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No: 2021-001P2-6423.DWG

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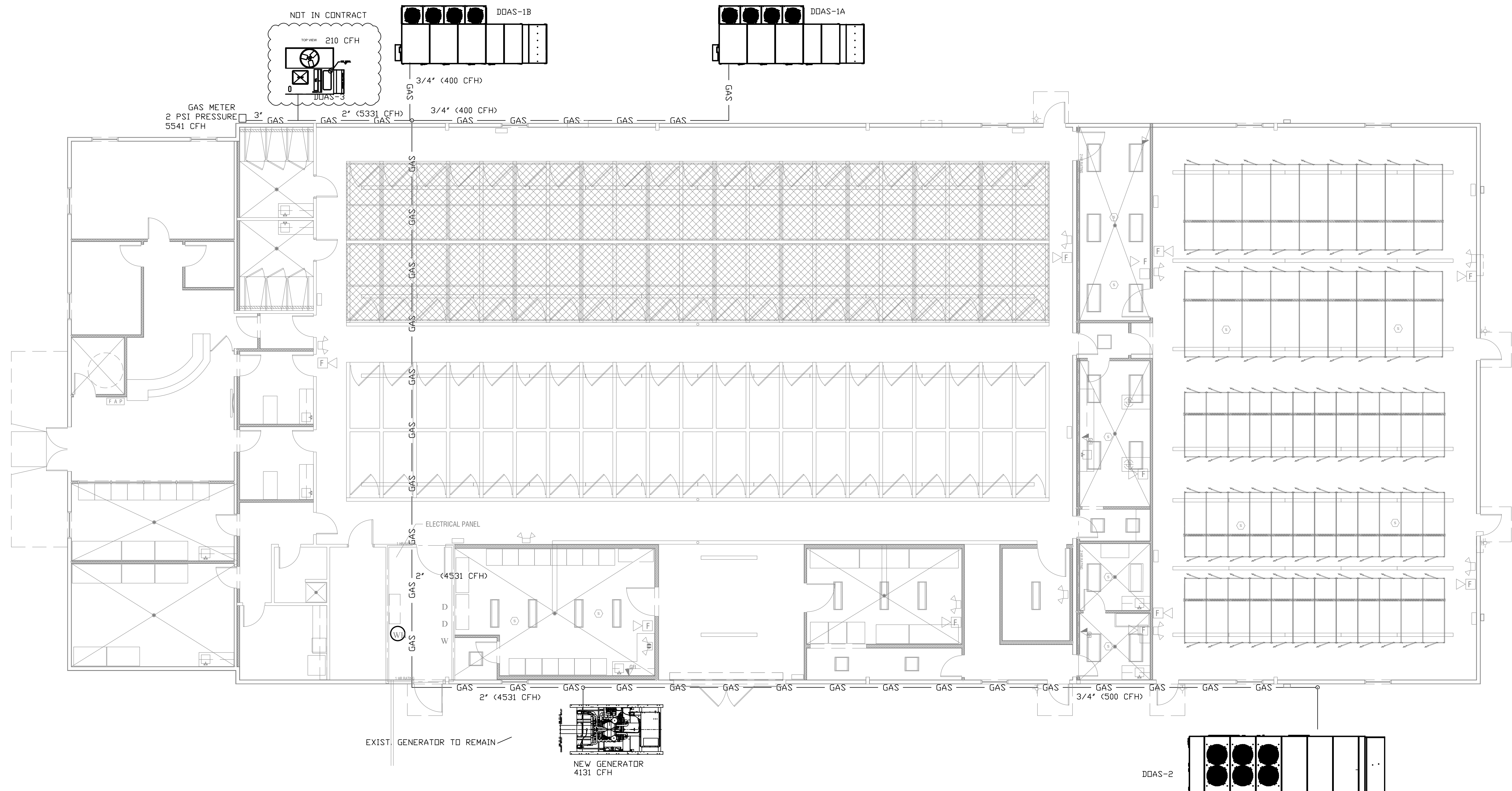
JACKSON COUNTY ANIMAL SHELTER

JEFFERSON, GEORGIA

SHEET TITLE:
PLUMBING GENERAL NOTES
PLUMBING FIXTURES SCHEDULE
PRINTED: 06/05/23

NUMBER:
P-3

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FLOOR PLAN-GAS
1/8"=1'-0"

PROVIDE PRESSURE REGULATOR AT THE EACH EQUIPMENT
SEE HVAC DRAWINGS (M-4) FOR GAS PIPING SPECIFICATION

Apr 21 2023 1:00:00 PM C:\Users\jwatts\OneDrive\Documents\2021-001-G1-32323.dwg

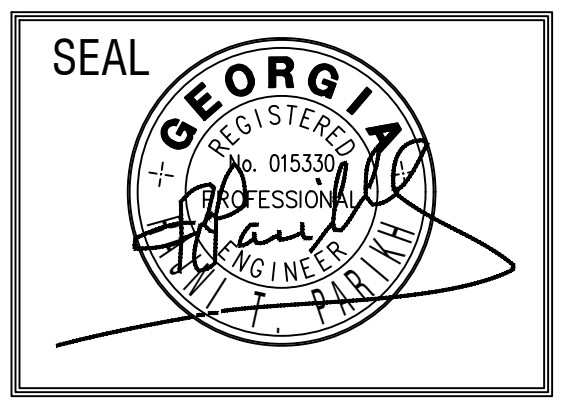
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Date Plotted: Apr 21, 2023 - 10:36am
file: 2021-001-G1-32323.DWG

ATLANTA MANAGEMENT AND ENGINEERING CONSULTANTS, INC.
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CARTER WATKINS ASSOCIATES ARCHITECTS, INC.
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137 EAST WASHINGTON STREET
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JACKSON COUNTY ANIMAL SHELTER
JEFFERSON, GEORGIA

SHEET TITLE:
FLOOR PLAN -GAS
PRINTED: 04/21/23

NUMBER:
G-1

May 03 2023 1:00 PM C:\2023-001\jackson_animal\2021-1001\18-32223.dwg

REVISIONS					
Number	Date	Remarks	Number	Date	Remarks
X	00-00-00	N/A			

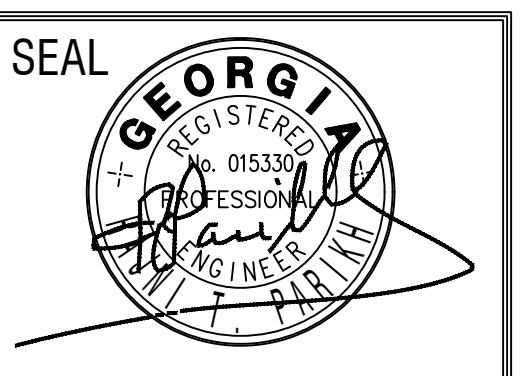
CONSULTANTS

Date Plotted: May 03, 2023 4:04pm
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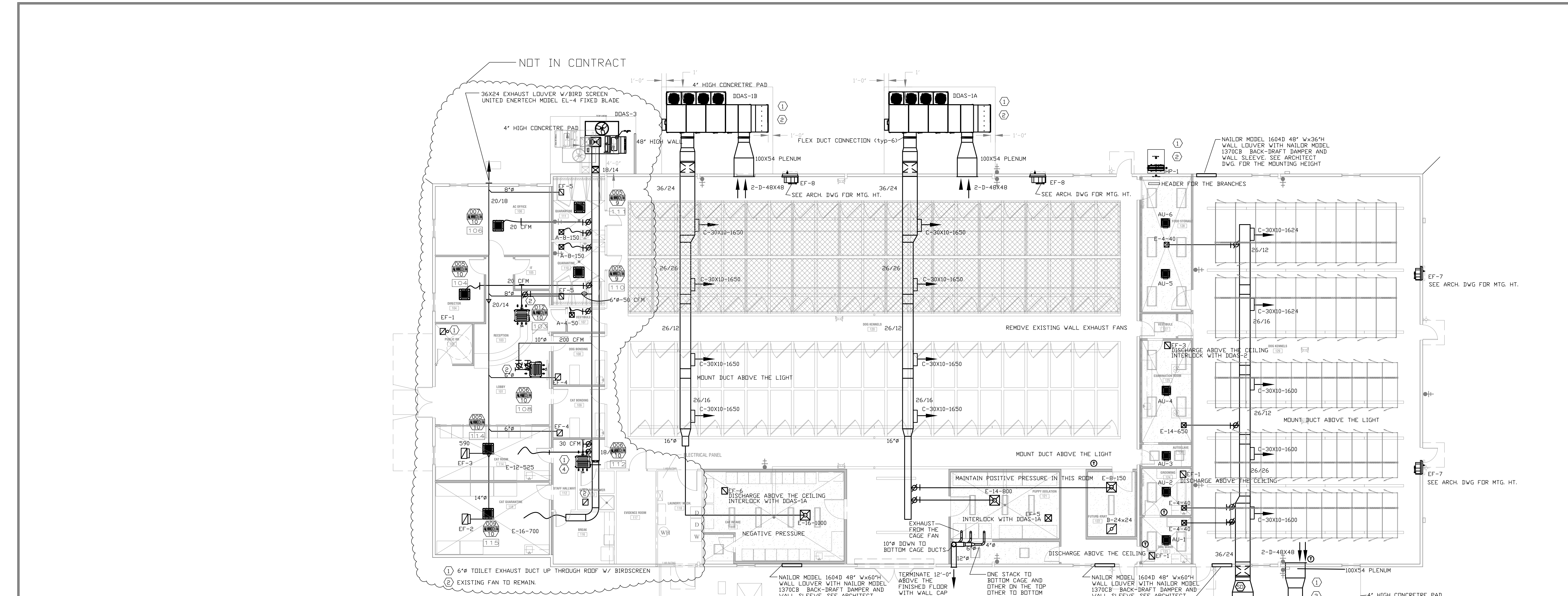


JACKSON COUNTY ANIMAL SHELTER
 JEFFERSON, GEORGIA

SHEET TITLE:
 FLOOR PLAN
 EXHAUST AND FRESH AIR

PRINTED: 05/03/23

NUMBER:
M-1



- KEY NOTES:**
- ① MAINTAIN CLEARANCES AROUND AND BETWEEN UNITS AS RECOMMENDED BY MANUFACTURER.
 - ② MOUNT CONDENSING UNIT ON 4" HIGH CONCRETE PAD.

- LEGEND**
- D CONDENSATE DRAIN
 - EXHAUST AIR
 - FD FIRE DAMPER WITH ACCESS PANEL
 - SA SUPPLY AIR
 - RA RETURN AIR
 - ⊕ THERMOSTAT (PROGRAMMABLE)
 - ⊙ SMOKE DETECTOR IN SUPPLY AIR DUCT AS PER GA. AMENDMENTS 606.2.1
 - A-8-100-CFM NECK SIZE AIR DISTRIBUTION DEVICE SEE SCHEDULE.
 - SPIN IN FITTING WITH MANUAL VOLUME DAMPER
 - MVD MANUAL VOLUME DAMPER

FLOOR PLAN-EXHAUST AND FRESH AIR
 1/8"=1'-0"
 MAINTAIN CLEARANCES AROUND THE DDAS 1a AND 1b, AND 2 AS PER MANUFACTURER'S INSTRUCTIONS

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MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF INDOOR UNIT SCHEDULE

System Tag	Room Name	Tag Reference	M-NET Address	Model	Type	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Cooling Design Entering Temp DB/WB (°F) / [Water in temp]	Heating Design Entering Temp DB/WB (°F) / [Water in temp]	Corrected Capacity			Estimated Cooling Coil LAT (°F) / [LWT]	Estimated Heating Coil LAT (°F) / [LWT]	Refrig Pipe Dim Liquid/Suction (inch)	Fan Speed Setting	Peak Fan Airflow (cfm) / [Design gpm G(US)/min]	Max Fan ESP Setting 208V/230V (IN WG)	Sound Pressure Per Fan Speed 208V/230V (dBA)	Voltage / Phase	Power Cooling 208V/230V (kW)	Power Heating 208V/230V (kW)	Electrical MCA/MFS	Condensate Removal Rate (gal/hr)	Actual Port Assignments	Notes / Options	
										Cooling Diversity Full/Partial (See Note 5, 6)	Cooling Total Capacity (BTU/h)	Cooling Sensible Capacity (BTU/h)															
System 1	Dog Wash	AU-1	1	PLFY-P05NFMU-E-3D-KIT	Ceiling-Cassette (Four-Way)	5,000	5,600	75.0/62.4	70	FULL DEMAND	4,184.8	4,175.2	FULL DEMAND	4,782.9	60.5	86.4	1/4 / 1/2	HIGH	280	26-28-30	208/230V/1-phase	0.02	0.02	0.24/0.24/15	0.09		1, 2, 3, 4
System 1	Grooming	AU-2	2	PLFY-P05NFMU-E-3D-KIT	Ceiling-Cassette (Four-Way)	5,000	5,600	75.0/62.4	70	FULL DEMAND	4,184.8	4,175.2	FULL DEMAND	4,782.9	60.5	86.4	1/4 / 1/2	HIGH	280	26-28-30	208/230V/1-phase	0.02	0.02	0.24/0.24/15	0.09		1, 2, 3, 4
System 1	AutoClave	AU-3	3	PLFY-P08NFMU-E-3D-KIT	Ceiling-Cassette (Four-Way)	8,000	9,000	75.0/62.4	70	FULL DEMAND	6,695.8	5,890.6	FULL DEMAND	7,686.7	56.9	93.5	1/4 / 1/2	HIGH	315	26-30-33	208/230V/1-phase	0.02	0.02	0.28/0.28/15	0.25		1, 2, 3, 4
System 1	Surgery Room	AU-4	4	PLFY-P08NFMU-E-3D-KIT	Ceiling-Cassette (Four-Way)	8,000	9,000	75.0/62.4	70	FULL DEMAND	6,695.8	5,890.6	FULL DEMAND	7,686.7	56.9	93.5	1/4 / 1/2	HIGH	315	26-30-33	208/230V/1-phase	0.02	0.02	0.28/0.28/15	0.25		1, 2, 3, 4
System 1	Storage	AU-5	5	PLFY-P05NFMU-E-3D-KIT	Ceiling-Cassette (Four-Way)	5,000	5,600	75.0/62.4	70	FULL DEMAND	4,184.8	4,175.2	FULL DEMAND	4,782.9	60.5	86.4	1/4 / 1/2	HIGH	280	26-28-30	208/230V/1-phase	0.02	0.02	0.24/0.24/15	0.09		1, 2, 3, 4
System 1	Storage	AU-6	6	PLFY-P05NFMU-E-3D-KIT	Ceiling-Cassette (Four-Way)	5,000	5,600	75.0/62.4	70	FULL DEMAND	4,184.8	4,175.2	FULL DEMAND	4,782.9	60.5	86.4	1/4 / 1/2	HIGH	280	26-28-30	208/230V/1-phase	0.02	0.02	0.24/0.24/15	0.09		1, 2, 3, 4

- Notes & Options:
 1 Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
 2 Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
 3 See outdoor unit schedule for outdoor ambient conditions, connected capacity, and other factors associated with corrected capacities
 4 See schematic piping/control diagram for indication of required indoor unit remote controllers, system controllers, and integration devices.
 5 Full demand corrected capacity includes de-rate associated with indoor vs. outdoor connected capacity indicated on outdoor unit schedule for associated system.
 Partial corrected capacity assumes sufficient diversity exists such that the corrected capacity de-rate does not apply.
 It is the designer's responsibility to ensure "Diamond System Builder" is set in the appropriate output capacity setting (full demand/partial demand) prior to generating this schedule.
 6 It is recommended to always base heating corrected capacity on full demand.

MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF OUTDOOR UNIT SCHEDULE

System Tag	Tag Reference	M-NET Address	Model Number	Modules	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Cooling Efficiency IEER/EER [SEER]	Heating COP @ 47°F [HSPF]	Nom System Connected Capacity (% of NOM)	Design Cooling Outdoor Temp DB (°F)	Design Heating Outdoor Temp WB (°F)	Max Pipe Length from BC or 1st Joint (feet)	Refrig Pipe Dim High/Low Pressure (inch) (See Note 4)	Corrected Cooling Total Capacity (BTU/h)	Corrected Heating Capacity (BTU/h)	Sound Pressure (dBA)	Inverter Driven Compressor Type / Quantity	Preliminary Added Field Charge (See Note 5)	Electrical-Per Module				Notes / Options
																			208/230V or [460V]	MCA 208/230V or [460V]	RFS	MOCP	
System 1	HP-1	51	PUMY-P48NKMU3	P48	48,000	54,000	0 / 12.2 [19.55]	4.08 [11.5]	75.0 %	100.0	15.6	77.0	3/8 / 5/8	44.415.4	34,504.9	51/54	SCROLL/1	9.9	208/230V / 1-phase	29	30	44	1, 2, 3, 4, 5, 6, 7, 8, 9

- Notes & Options:
 1 Nominal cooling capacities are based on indoor coil EAT of 80/67°F (DB/WB), outdoor of 95°F (DB)
 2 Nominal heating capacities are based on indoor coil EAT of 70°F (DB), outdoor of 43°F (WB)
 3 Efficiency values for EER, IEER, COP are based on AHRI 1230 test method for mixture of ducted & non-ducted indoor units.
 4 For systems with multiple modules, refrigerant pipe dimensions indicate total system combined piping downstream of module tapping.
 5 Added field charge listed is in addition to factory charge, this must be updated based upon final as-built piping layout.
 6 Factory representatives shall review the project prior to and throughout the installation of CITY MULTI equipment
 7 Factory representatives shall startup and commission CITY MULTI equipment upon completion of equipment installations
 8 Factory representatives shall provide on-site assistance for the BMS integration of the CITY MULTI equipment
 9 Factory representatives shall provide end-user training on the CITY MULTI equipment upon completion of the installation of equipment

AIR DISTRIBUTION SCHEDULE

MARK	DESCRIPTION	KRUEGER MODEL	TITUS	PANEL SIZE	REMARKS
A	NAILOR "4320" PERFORATED SUPPLY AIR CEILING DIFFUSER.	6604	PAS	24X24	1,2,3
B	NAILOR "51EC" EGGRATE 1/2"X1/2"X1/2" GRID RETURN AIR GRILLE.	ECG5	50P	24X24	1
C	NAILOR "45DL1-O-POB" DRUM LOUVER SUPPLY AIR REGISTER			30X10	1,2,4
D	NAILOR "61FH-HD-RETURN AIR GRILLE			48X48	1
E	NAILOR "4320" PERFORATED SUPPLY AIR CEILING DIFFUSER.	6604	PAS	12X12	1,2,3
F	NAILOR "51EC" EGGRATE 1/2"X1/2"X1/2" GRID RETURN AIR GRILLE.	ECG5	50P	12X12	1

1. STEEL FINISH AND BORDER SHALL MATCH CEILING. SEE ARCHITECT DRAWING FOR THE TYPE OF CEILING.
 2. MANUAL VOLUME DAMPER.
 3. FACTORY INSULATED DIFFUSER AT UNCONDITIONED AREA OR NO RETURN AIR PLENUM.
 4. POLE OPERATOR BRACKET

FAN SCHEDULE

MARK	CFM	EXP.SP	RPM	T.S.	SONES	H.P.	MANUFACTURER	MODEL #	VOLTAGE	AMPS	WEIGHT	FEI	REMARKS
EF-1	75	0.25	717	1173	1.3	1/18	PENN	ZJ1	115/1/60		15		1,2,4
EF-2	775	0.5	1013	2121	5.3	1/5	PENN	Z121S	115/1/60		44		1,2,3
EF-3	590	0.5	929	1945	4.1	1/5	PENN	Z121S	115/1/60		44		1,2,3
EF-4	150	0.5	1128	1993	3.1	1/12	PENN	Z8H	115/1/60		20		1,2,3
EF-5	200	0.5	1166	2063	3.3	1/12	PENN	Z8H	115/1/60		20		1,2,6
EF-6	1200	0.25	1307		9.67	0.39	PENN	Z12H-SC	115/1/60		44	73.66	1,2,6
EF-7	4000	0.25	662		14.94	3/4	PENN	LWP-30H1	208/3/60	3.5	35	1.14	4,5
EF-8	8000	0.25	575		13.98	1	PENN	LWP-36H1	208/3/60	4.6	35	1.3	4,5
EF-9	400												

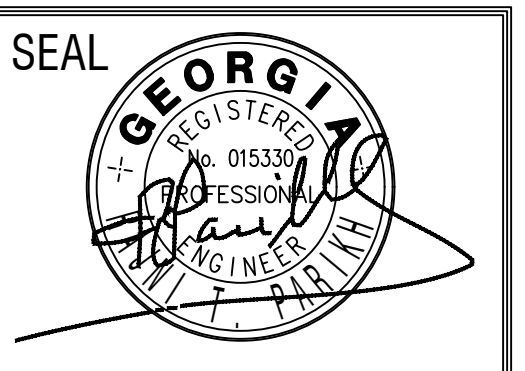
1. SPEED CONTROLLER.
 2. CEILING MOUNTED WITH BACKDRAFT DAMPER.
 3. FAN OPERATES CONTINUOUSLY.
 4. FAN OPERATES FROM THE WALL SWITCH. (SUPERCEDES NOTES ON THE DRAWING)
 5. BELT DRIVE, HIGH EFFICIENCY MOTOR, SERVICE SWITCH, BACKDRAFT DAMPER, MOUNTING SLEEVE.
 6. SEE NOTE NEXT TO FAN.

REVISIONS					
Number	Date	Remarks	Number	Date	Remarks
X	00-00-00	N/A			

CONSULTANTS
 Date Plotted: Apr 21, 2023 - 10:39am
 File: 2021-001\11-3123.dwg

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JACKSON COUNTY ANIMAL SHELTER
 JEFFERSON, GEORGIA

SHEET TITLE: SCHEDULES	NUMBER: M-2
PRINTED: 04/21/23	

100% OUTSIDE AIR UNITS SCHEDULE (GREENHECK)

Mark	Supply Fan			Exhaust Fan			Heat Wheel (Summer)						Heat Wheel (Winter)						GROSS DX Cooling						Hot Gas Reheat			Gas Heating			Electric Data		Weight (lbs)	GEENHECK
	CFM	ESP (in)	HP	CFM	ESP (in)	HP	Capacity (MBH)	Ent Air DB	Ent Air WB	Lvg Air DB	Lvg Air WB	Capacity (MBH)	Ent Air DB	Ent Air WB	Lvg Air DB	Lvg Air WB	Capacity (MBH)	Capacity (MBH)	Ent Air DB	Ent Air WB	Lvg Air DB	Lvg Air WB	Capacity (MBH)	Capacity (MBH)	Lvg Air Temp	Capacity (MBH)	Capacity (MBH)	Air Temp	Air Temp	Voltage V / PH	MCA AMPS	Max Fuse AMPS		
DOAS-1A	8250	0.75"	TWO 5	8500	0.75"	TWO 3	282.1	95.0	75.0	80.9	66.4	345.7	17.0	13.9	55.8	45.9	233.9	308.2	80.9	66.4	54.7	54.6	214.6	78.9	50.0%	600.0	480.0	55.8	109.6	208/3	149.0	775.0	7,248	RVE-150-74E-25-0-D1
DOAS-1b	8250	0.75"	TWO 5	8500	0.75"	TWO 3	282.1	95.0	75.0	80.9	66.4	345.7	17.0	13.9	55.8	45.9	233.9	308.2	80.9	66.4	54.7	54.6	214.6	78.9	50.0%	600.0	480.0	55.8	109.6	208/3	149.0	775.0	7,248	RVE-150-74E-25-0-D1
DOAS-2	8200	0.75"	10	7700	0.75"	7.5	239.8	95.0	75.0	82.8	67.8	298.4	17.0	15.0	50.7	42.3	247.4	336.8	82.8	67.8	55.3	55.0	281.0	87.0	50.0%	500.0	400.0	50.7	95.9	208/3	152.9	200.0	4,900	RVE-85-58E-25-N-D1

REMARKS:

- FACTORY ASSEMBLED, PIPED, WIRED AND TESTED AS A SINGLE PACKAGE. MUST BE ETL AND UL LISTED AS A PACKAGED UNIT.
- PROVIDE HORIZONTAL DISCHARGE AND RETURN CONFIGURATION. INSTALL UNIT ON CONCRETE HOUSEKEEPING PAD.
- UNITS SHALL INCLUDE ALUMINUM ENTHALPY HEAT WHEEL WITH PURGE SECTION, FROST CONTROL, LOW LEAKAGE OUTSIDE AIR DAMPER, RETURN AIR DAMPER.
- UNITS SHALL INCLUDE 2 STAGE COOLING, 2 COMPRESSOR CIRCUITS WITH INTERLACED-CIRCUIT DX COILS (FACE SPLIT NOT ACCEPTABLE)
- UNITS SHALL INCLUDE MINIMUM 16:1 TURNDOWN MODULATING NATURAL GAS HEATING WITH 304 SERIES STAINLESS STEEL HEAT EXCHANGER WITH A 25 YEAR WARRANTY (PARTS ONLY)
- UNITS SHALL INCLUDE HINGED ACCESS AND CONCRETE GRAY FINISH UNIT
- UNITS SHALL INCLUDE MODULATING HOT GAS REHEAT COILS FOR DEHUMIDIFICATION.
- UNITS SHALL INCLUDE STAINLESS STEEL DRAIN PAN AND CONDENSATE DRAIN TRAP
- UNITS SHALL INCLUDE MANUAL RESET HIGH PRESSURE SWITCHES & AUTO RESET LOW PRESSURE SWITCHES
- UNITS SHALL INCLUDE MODULATING CONDENSER FAN MOTORS FOR HEAD PRESSURE CONTROL
- UNITS SHALL INCLUDE 2" MERV 8 FILTERS FOR OUTSIDE AIR SECTION, EXHAUST AIR SECTION, AND MAIN AIR SECTION, SPARE FILTERS.
- CONTROLS: REMOTE DISPLAY, DIRTY FILTER SENSORS, ROOM THERMOSTAT-TEMP AND RH, ECONOMIZER FAULT DETECTION DIAGNOSTICS, BMS MONITORING POINTS, SUPPLY FAN CONTROL, EXHAUST FAN CONTROL, ENTHALPY ECONOMIZER CONTROL, FACTORY WIRED VFDs, AMBIENT DEWPOINT SENSOR; ELECTRONIC SEQUENCING OF COMPRESSORS AND HEATING AND MODULATING HOT GAS RE-HEATING.
- ENERGY WHEEL ECONOMIZER CONTROL, ENERGY WHEEL ROTATION SENSOR, OUTSIDE AIR REC. AIR DAMPER CONTROL, FIELD MOUNTED CONTROLS SHALL INCLUDE A DUCT MOUNTED LEAVING AIR SENSOR AND A WALL MOUNTED SPACE SENSOR (SEE PLANS FOR LOCATION)
- ALL UNIT MOUNTED CONTROLS FOR COMPLETE OPERATION SHALL BE INSTALLED BY THE EQUIPMENT MANUFACTURER
- 2" FOAM INJECTED INSULATED (MINIMUM R13 VALUE) DOUBLEWALL CABINET CONSTRUCTION
- UNITS SHALL INCLUDE INTEGRAL NON-FUSED DISCONNECT, SERVICE OUTLET, SERVICE LIGHTS, CONDENSATE OVERFLOW SWITCH, UV LIGHTS, SMOKE DETECTORS, POWER VENTING.
- UNITS SHALL INCLUDE REMOTE SAFETY SHUTDOWN TERMINALS
- PHASE PROTECTION
- DUCT MOUNTED SMOKE DETECTORS PROVIDED BY ELECTRICAL, INSTALLED BY MECHANICAL
- UNIT SHALL BE AHRI LISTED AND CERTIFIED (COL ONLY CERTIFICATION IS NOT ACCEPTABLE)
- SUPPLY AND EXHAUST FANS SHALL BE DIRECT DRIVE WITH FACTORY MOUNTED VFD FOR BALANCING AND/OR CONTROL
- COMPRESSORS SHALL HAVE 9 YEAR WARRANTY, 18 MONTHS ENERGY WHEEL AND UNIT WARRANTY.
- DOAS-1A AND 1B ENTHALPY RECOVERY RATIO=70.9% DOAS-2 =60.7%
- CONTACT -TRACY KLINGER-423-605-4836 FOR MORE INFORMATION.

100% OUTSIDE AIR UNITS SCHEDULE (TRANE)

Mark	Supply Fan			Exhaust Fan			Heat Wheel (Summer)						Heat Wheel (Winter)						GROSS DX Cooling						Hot Gas Reheat			Gas Heating			Electric Data		Weight (lbs)	AAON Nomenclature
	CFM	ESP (in)	HP	CFM	ESP (in)	HP	Capacity (MBH)	Ent Air DB	Ent Air WB	Lvg Air DB	Lvg Air WB	Capacity (MBH)	Ent Air DB	Ent Air WB	Lvg Air DB	Lvg Air WB	Capacity (MBH)	Capacity (MBH)	Ent Air DB	Ent Air WB	Lvg Air DB	Lvg Air WB	Capacity (MBH)	Capacity (MBH)	Lvg Air Temp	Capacity (MBH)	Capacity (MBH)	Air Temp	Air Temp	Voltage V / PH	MCA AMPS	Max Fuse AMPS		
DOAS-1A	8250	0.75"	10	8594	0.75"	7.5	178.1	95.0	75.0	83.7	69.2	686.24	17.0	15.0	63.2	56.3	268.9	409.2	83.7	69.2	54.2	53.4	166.0	77.8	62.44	400	324	63.2	99.4	208/3	177.4	200.0	8596	OAND420B3-D1C40U1T-A7K0001RB70B00000
DOAS-1b	8250	0.75"	10	8594	0.75"	7.5	178.1	95.0	75.0	83.7	69.2	686.24	17.0	15.0	63.2	56.3	268.9	409.2	83.7	69.2	54.2	53.4	166.0	77.8	62.44	400	324	63.2	99.4	208/3	177.4	200.0	8596	OAND420B3-D1C40U1T-A7K0001RB70B00000
DOAS-2	8200	0.75"	10	7700	0.75"	7.5	183.1	95.0	75.0	81.3	69.0	403.31	17.0	15.0	52.3	42.3	270.4	470.1	81.3	69.0	50.9	50.3	166.0	75.0	50.0%	500	405	52.3	98.7	208/3	190.4	200.0	4,900	OANG040F1-DAC10BL00-N1ALL3AL3-51A30E01A A00C00A00-A01A00000-00AE00000

REMARKS:

- FACTORY ASSEMBLED, PIPED, WIRED AND TESTED AS A SINGLE PACKAGE. MUST BE ETL AND UL LISTED AS A PACKAGED UNIT.
- PROVIDE HORIZONTAL DISCHARGE AND RETURN CONFIGURATION. INSTALL UNIT ON CONCRETE HOUSEKEEPING PAD.
- UNITS SHALL INCLUDE ALUMINUM ENTHALPY HEAT WHEEL WITH PURGE SECTION.
- UNITS SHALL INCLUDE 2 STAGE COOLING, 2 COMPRESSOR CIRCUITS WITH INTERLACED-CIRCUIT DX COILS (FACE SPLIT NOT ACCEPTABLE)
- UNITS SHALL INCLUDE MINIMUM 10:1 TURNDOWN MODULATING NATURAL GAS HEATING WITH 304 SERIES STAINLESS STEEL HEAT EXCHANGER WITH A 25 YEAR WARRANTY (PARTS ONLY)
- UNITS SHALL INCLUDE HOT GAS BYPASS ON LAG CIRCUITS (FROST-STAT COMPRESSOR CYCLING NOT ACCEPTABLE)
- UNITS SHALL INCLUDE MODULATING HOT GAS REHEAT COILS FOR DEHUMIDIFICATION (2-POSITION OR DEDICATED HEAT PUMP CIRCUIT NOT ACCEPTABLE)
- UNITS SHALL INCLUDE STAINLESS STEEL DRAIN PAN
- UNITS SHALL INCLUDE MANUAL RESET HIGH PRESSURE SWITCHES & AUTO RESET LOW PRESSURE SWITCHES
- UNITS SHALL INCLUDE MODULATING CONDENSER FAN MOTORS FOR HEAD PRESSURE CONTROL
- UNITS SHALL INCLUDE 2" MERV 8 FILTERS FOR OUTSIDE AIR SECTION, EXHAUST AIR SECTION, AND MAIN AIR SECTION.
- CONTROLS: AMBIENT DEWPOINT SENSOR; ELECTRONIC SEQUENCING OF COMPRESSORS AND HEATING AND MODULATING HOT GAS RE-HEATING.
- FIELD MOUNTED CONTROLS SHALL INCLUDE A DUCT MOUNTED LEAVING AIR SENSOR AND A WALL MOUNTED SPACE SENSOR (SEE PLANS FOR LOCATION)
- ALL UNIT MOUNTED CONTROLS FOR COMPLETE OPERATION SHALL BE INSTALLED BY THE EQUIPMENT MANUFACTURER
- 2" FOAM INJECTED INSULATED (MINIMUM R13 VALUE) DOUBLEWALL CABINET CONSTRUCTION
- UNITS SHALL INCLUDE INTEGRAL NON-FUSED DISCONNECT
- UNITS SHALL INCLUDE REMOTE SAFETY SHUTDOWN TERMINALS
- PHASE PROTECTION
- DUCT MOUNTED SMOKE DETECTORS PROVIDED BY ELECTRICAL, INSTALLED BY MECHANICAL
- UNIT SHALL BE AHRI LISTED AND CERTIFIED (COL ONLY CERTIFICATION IS NOT ACCEPTABLE)
- SUPPLY AND EXHAUST FANS SHALL BE DIRECT DRIVE WITH FACTORY MOUNTED VFD FOR BALANCING AND/OR CONTROL
- COMPRESSORS SHALL HAVE 5 YEAR WARRANTY PARTS ONLY.
- DOAS-3 SHALL BE A 100% OUTSIDE AIR UNIT WITH NO HEAT WHEEL.
- CONTACT RICH GRANELLI FOR ADDITIONAL INFORMATION 678-775-4203

GENERAL NOTE:

CONTRACTOR MUST VERIFY THE FEASIBILITY OF THE PROPOSED UNIT BEFORE THE BIDDING

DOAS/RTU FAN SCHEDULE

FAN UNIT NO.	TAG	QTY	FAN INFORMATION				ELECTRICAL INFORMATION										COOLING INFORMATION										REHEAT INFORMATION				GAS HEAT INFORMATION				NOTES	
			MANUFACTURER	MODEL #	CFM	HP	ESP	PHASE	VOLT	MCA	MOCP	OUTSIDE AIR	EXHAUST AIR	MAKED AIR	LEAVING AIR	CAPACITY	ENT AIR	DISCHARGE	ENT AIR	DISCHARGE	ENT AIR	DISCHARGE	ENT AIR	DISCHARGE	ENT AIR	DISCHARGE	ENT AIR	DISCHARGE	ENT AIR	DISCHARGE	ENT AIR	DISCHARGE	ENT AIR	DISCHARGE		
1	DOAS-1A	1	RHMETH-4-600-30-30F-HE3VY	RHEM	30MF-4-RTU	0	8250	8250	7809	0.750	10.00	3	208	186.5A	200A	95.0T	75.0T	80.1T	66.0T	50.3T	50.4T	382.4 MBH	266.9 MBH	17.8	4.8	70.0T	65.3T	177.9 MBH	200 MBH	100.0 LBS/HR	NATURAL	580951	4702027	50T	7 IN. W.C. - 14 IN. W.C.	1,2,3,4,5,6,7,8,9,10,11,12,14,15,16,17,18,19,20,21
2	DOAS-1B	1	RHMETH-4-600-30-30F-HE3VY	RHEM	30MF-4-RTU	0	8250	8250	7809	0.750	10.00	3	208	186.5A	200A	95.0T	75.0T	80.1T	66.0T	50.3T	50.4T	382.4 MBH	266.9 MBH	17.8	4.8	70.0T	65.3T	177.9 MBH	200 MBH	100.0 LBS/HR	NATURAL	580951	4702027	50T	7 IN. W.C. - 14 IN. W.C.	1,2,3,4,5,6,7,8,9,10,11,12,14,15,16,17,18,19,20,21
3	DOAS-2	1	RHMETH-4-600-30-30F-HE3VY	RHEM	30MF-4-RTU	0	8200	8200	7809	0.750	10.00	3	208	186.5A	200A	95.0T	75.0T	80.1T	66.0T	50.3T	50.4T	383.3 MBH	267.1 MBH	17.8	4.8	70.0T	65.3T	174 MBH	200 MBH	100.5 LBS/HR	NATURAL	582583	480000	51T	7 IN. W.C. - 14 IN. W.C.	1,2,3,4,5,6,7,8,9,10,11,12,14,15,16,17,18,19,20,21

NOTES:

- INDOOR SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL OR SCALED SCROLL NOT AN APPROVED EQUAL.
- DRYER DRUM FURNACE. 80% EFFICIENCY. 100% EFFICIENCY.
- INTERLOCK MONITORING ON ALL WIRE CONNECTIONS BY MANUFACTURER
- RETROFITTING PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE
- 0.5" BORE CONDENSATE PIPING
- ELECTRONIC EXPANSION VALVE. TRY NOT ACCEPTABLE
- SECTION LINE CONNECTIONS
- FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY, 25 YEAR WARRANTY ON STAINLESS STEEL HEAT EXCHANGER
- MECHANICAL ROOMS THAT ARE DISCHARGE EXHAUSTIVE SENSORS DISCHARGE SENSORS TO BE FACTORY MOUNTED WITHIN UNIT
- 2" EXTERIOR DUAL-WALL CONSTRUCTION R/F R-13 INSULATION-MINIMUM 300A EXTERIOR R/F HGA RISE
- TOTAL ENERGY RECOVERY WHEEL WITH FROST CONTROL AND MODULATING DX COILS. INCLUDES SUPPLY AND EXHAUST FILTER & WHEEL MONITORING
- 81% EFFICIENT FURNACE WITH MODULATING INDOOR TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 6:1 TURNDOWN WITH NO AND 5:1 TURNDOWN WITH LP
- 81% EFFICIENT FURNACE WITH MODULATING INDOOR TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 6:1 TURNDOWN WITH NO AND 5:1 TURNDOWN WITH LP
- EXHAUST CHW MONITORING INTEGRAL TO UNIT WITH CHW MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE
- FILTERED SUPPLY AND EXHAUST AIR STREAMS WITH ENERGY RECOVERY ROTATION MODULE
- SUPPLY CHW MONITORING INTEGRAL TO UNIT WITH CHW MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE
- FILTERED EXHAUST AIR CHW REHEAT
- 4" MIN-15 IN-14T FURNACE
- NO. GUARD FOR CONDENSING COIL
- BAROMETRIC RELIEF DAMPER
- VERTICAL, DISCHARGE AND RETURN

DOAS/RTU ENERGY RECOVERY SCHEDULE

FAN UNIT NO.	TAG	EXHAUST AIR FAN (DOAS)				SUPPLY AIR SUMMER				RETURN AIR (DOAS/TEMP?)				DESIGN RECOVERED SUMMER CAPACITY			SUPPLY AIR WINTER			RETURN AIR (DOAS/TEMP?)			DESIGN RECOVERED WINTER CAPACITY		
		CFM	SP	WATER HP	V/A/Hz	ENTERING AIR (DOAS/TEMP?)	LEAVING AIR (DOAS/TEMP?)	TOTAL	SENSIBLE	LATENT	ENTERING AIR (DOAS/TEMP?)	LEAVING AIR (DOAS/TEMP?)	TOTAL	SENSIBLE	LATENT	ENTERING AIR (DOAS/TEMP?)	LEAVING AIR (DOAS/TEMP?)	TOTAL	SENSIBLE	LATENT					
1	DOAS-1A	8000	1.26	9.6	208/3/60	95.0/75.0	80.1/66.0	75.0/62.0	271.0 MBH	122.6 MBH	147.4 MBH	25.0/19.9	61.8/52.8	75.0/62.0	536.9 MBH	316.0 MBH	220.9 MBH								
2	DOAS-1B	8000	1.26	9.6	208/3/60	95.0/75.0	80.1/66.0	75.0/62.0	271.0 MBH	122.6 MBH	147.4 MBH	25.0/19.9	61.8/52.8	75.0/62.0	536.9 MBH	316.0 MBH	220.9 MBH								
3	DOAS-2	7700	1.168	9.6	208/3/60	95.0/75.0	85.6/66.3	75.0/62.0	258.6 MBH	118.4 MBH	141.2 MBH	25.0/19.9	58.8/51.5	75.0/62.0	507.0 MBH	297.9 MBH	206.1 MBH								

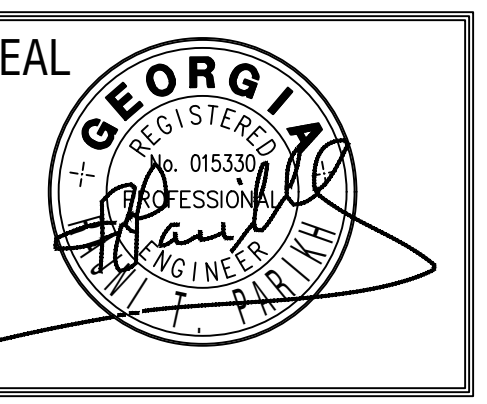
Apr 21 2023 1:00:00 PM Jackson Animal Shelter\2021-1001\11-3123.dwg

REVISIONS					
Number	Date	Remarks	Number	Date	Remarks
X	00-00-00	N/A			

CONSULTANTS
 Date Plotted: Apr 21, 2023 - 10:40am
 File: 2021-001M1-3123.DWG

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JACKSON COUNTY ANIMAL SHELTER
 JEFFERSON, GEORGIA

SHEET TITLE:
100% OUTSIDE AIR UNITS
 PRINTED: 04/21/23
 NUMBER:
M-3

JACKSON CO. ANIMAL SHELTER PRINTED DATE: 04/21/23
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HVAC GENERAL NOTES


1. CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ARCHITECT ANY CONFLICTS OF WORK PRIOR TO PURCHASE OF EQUIPMENT OR COMMENCEMENT OF WORK. CONTRACTOR SHALL NOT FABRICATE ANY DUCTWORK WITHOUT COORDINATING WITH OTHER DISCIPLINES AND VERIFYING CLEARANCE FOR THE DUCTWORK.
2. NO EQUIPMENT SHALL BE VISIBLE FROM THE FRONT.
3. CONTRACTOR SHALL REMOVE ALL THE EXISTING AIR-CONDITIONING EQUIPMENT AND WALL EXHAUST FANS, DISPOSE ALL THE EQUIPMENT AS PER THE OWNER'S INSTRUCTIONS.
4. CONTRACTOR SHALL VISIT THE JOB SITE AND HAVE A GOOD WORKING KNOWLEDGE AND ACQUAINTANCE OF THE EXISTING JOB SITE AS WELL AS THE CONDITIONS OF THE JOB SITE AND INCLUDE A STATEMENT ON HIS BID THAT HE HAS DONE SO.
5. DEVIATIONS FROM MATERIAL, METHODS, AND PROCEDURES SET FORTH HEREIN MUST BE APPROVED IN WRITING WITH EQUIPMENT AND INSTALLATION SUBMITTALS.
6. CONTRACTOR SHALL REVIEW STRUCTURAL, ELECTRICAL, AND ARCHITECTURAL DRAWINGS BEFORE FABRICATING OR INSTALLING DUCTWORK OR EQUIPMENT TO AVOID ANY CONFLICTS.
7. FIRE DAMPERS SHALL BE RUSKIN MODEL D-802 TYPE "B" WITH 1 1/2 HR RATING. (VERIFY RATING BEFORE SPECIFYING).
8. REQUEST FOR PAYMENT FOR ADDITIONAL COST DUE TO SITE CONDITIONS WILL NOT BE ALLOWED.
9. ALL DUCT DIMENSIONS ARE INSIDE CLEAR.
10. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED BY EVERY APPLICABLE JURISDICTION FOR THE PERFORMANCE OF THE WORK.
11. ALL WORK SHALL MEET THE LOCAL AND STATE, HEATING AND AIR-CONDITIONING, AND ENERGY CODES.
12. SHEET METAL DUCTWORK SHALL BE GALVANIZED STEEL SHEETS OF THICKNESS AS RECOMMENDED, CONSTRUCTED AND DETAILED IN THE LATEST SMACNA CONSTRUCTION STANDARDS. NO FIBERGLASS DUCTWORK SHALL BE USED.
13. ON DUCTWORK SIZES; FIRST DIMENSION GIVEN IS SIDE SHOWN.
14. DUCT TURNS MAY BE ROUND OR SQUARE. ROUND ELBOWS SHALL HAVE INSIDE RADIUS NOT LESS THAN DUCT WIDTH. SQUARE ELBOWS SHALL HAVE SINGLE THICKNESS WALL TURNING VANES.
15. SUPPLY, RETURN, AND OUTSIDE AIR INTAKE DUCTWORK SHALL BE INSULATED WITH 3 INCH THICK BLANKET, TYPE 75 WITH REINFORCED FOIL FACE VAPOR BARRIER, U. L. LISTED. (SEE STANDARD MECHANICAL AND ENERGY CODE). ANY AIR SUPPLYING EQUIPMENT (GRILLES, DIFFUSERS, REGISTERS, AHJ, AND OTHERS) LOCATED IN A NON-AIR-CONDITIONING AREA AND WHICH ARE SUBJECT TO FORM CONDENSATION ON THE SURFACE SHALL BE INSULATED. ALL SUPPLY AND RETURN DUCTS AND PLENUM SHALL BE INSULATED WITH A MINIMUM OF R-5 INSULATION WHEN LOCATED IN UNCONDITIONED SPACES AND WITH A MINIMUM OF R-8 INSULATION WHEN LOCATED OUTSIDE THE BUILDING (E.G. ATTIC).
16. CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE OF EACH EQUIPMENT WITH ELECTRICAL CONTRACTOR BEFORE ORDERING.
17. SYSTEM SHALL BE AIR BALANCED.
18. FLEX DUCT SHALL NOT EXCEED 8'-0" IN LENGTH.
19. ALL ROUND DUCT SHALL BE PROPERLY WRAPPED, TAPED AND SUPPORTED SO AS TO REDUCE NOISE AND VIBRATION.
20. PROVIDE OPERATIONS AND MAINTENANCE MANUALS FOR ALL EQUIPMENT.
21. ALL LOW VOLTAGE (24 VOLTS AND BELOW) CONTROL AND INTERLOCK WIRING IS INCLUDED IN THIS DIVISION.
22. SMOKE DETECTORS SHALL BE PROVIDED AT ALL EQUIPMENT SUPPLYING OR EXHAUSTING GREATER THAN 2000 CFM OR SERVING MEANS OF EGRESS (CORRIDOR) IN THE RETURN DUCT (CORRIDOR) PRIOR TO OUTDOOR AIR CONNECTIONS (IMC-2006) AND SUPPLY AIR DUCT (Gg. Annex/Annex/1).
22. SMOKE DETECTORS ARE NOT REQUIRED IN THE RETURN/SUPPLY AIR SYSTEM WHERE CONNECTION ACCORDING TO NFPA-90A, MECHANICAL CODE SECTIONS, AND LOCAL CODES. AIR SYSTEM WHERE ALL PORTIONS OF THE BUILDING SERVED BY THE AIR DISTRIBUTION SYSTEM ARE PROTECTED BY AREA SMOKE DETECTORS CONNECTED TO A FIRE ALARM SYSTEM IN ACCORDANCE WITH THE INTERNATIONAL FIRE CODE.
23. THE SMOKE DETECTOR ACTIVATION SHALL CAUSE A VISUAL AND AN AUDIBLE SIGNAL IN A NORMALLY OCCUPIED AREA, AND SMOKE DETECTOR TROUBLE CONDITIONS SHALL BE INDICATED VISUALLY OR AUDIBLY IN A NORMALLY OCCUPIED AREA AND SHALL BE IDENTIFIED AS AIR DUCT DETECTOR TROUBLE. (COORDINATE WITH FIRE ALARM CONTRACTOR). CONTRACTOR SHALL PROVIDE AND INSTALL SMOKE DETECTORS UNLESS OTHERWISE NOTED. COORDINATE WITH ELECTRICAL AND FIRE ALARM CONTRACTOR FOR THE TYPE OF SMOKE DETECTOR.
24. EACH AIR DISTRIBUTION SYSTEM SHALL BE PROVIDED WITH NOT LESS THAN ONE MANUALLY OPERABLE MEANS TO STOP THE OPERATION OF SUPPLY, RETURN, AND EXHAUST FANS IN AN EMERGENCY. THE MEANS OF MANUAL OPERATION SHALL BE LOCATED AT AN APPROVED LOCATION.
25. RUN MIN. 3/4" OR FULL SIZE OF UNIT CONNECTION PVC CONDENSATE DRAIN FROM UNIT TO THE APPROVED PLACE OF DISPOSAL AS PER MECHANICAL CODE SECTION 307.2. PROVIDE CONDENSATE DRAIN PUMP IF NECESSARY.
26. AIR-CONDITIONING UNITS SHALL HAVE FACTORY INSTALLED VIBRATION (INTERNAL) ISOLATORS.
27. DIFFUSERS ARE TO BE CONNECTED TO DUCTWORK WITH SPIN-IN FITTING EXTRACTOR AND MANUAL VOLUME DAMPER. EXACT LOCATION OF ALL DIFFUSERS TO BE COORDINATED WITH LIGHTING LAYOUT AND REFLECTED CEILING PLAN.
28. AIRFOIL SHAPED SPLITTER DAMPER IS REQUIRED AT EACH DUCT SPLIT WHERE ANY DUCT DIMENSION EXCEEDS 8". PROVIDE LOCKING QUADRANT.
29. ADJUSTABLE, MULTI-BLADE EXTRACTOR SHALL BE REQUIRED AT EACH BRANCH DUCT TAKEOFF WHERE NO OTHER PROVISION HAS BEEN MADE TO DIVERT THE AIR.
30. CONTRACTOR SHALL COORDINATE WITH OTHER DISCIPLINES AND CHECK CLEARANCES TO PREVENT ANY CONFLICTS.
31. PROVIDE REGISTERS AND GRILLES THAT MATCH MOUNTING SURFACE FINISHES AS APPROVED BY THE ARCHITECT.
32. COORDINATE THE EXACT LOCATION OF THE GAS METER WITH THE OWNER.
33. GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL ASTM A53 OR ASTM 106 WITH MALLEABLE IRON SCREWED FITTINGS. ALL PORTIONS OF GAS PIPING UNDERGROUND OR IN FLOOR SLAB SHALL HAVE ASPHALTIC COATING EQUAL TO SOUTHERN WF-1. GAS PIPING RUN IN CONCRETE FLOOR SLAB SHALL HAVE AT LEAST 2" OF CONCRETE ON ALL SIDES. WALLS OR ENCLOSED SPACES WHERE GAS IS RUN SHALL BE VENTED WITH APPROVED GRILLES, OR CONDUIT TO OUTSIDE.
34. FLEXIBLE CONNECTORS SHALL BEAR THE LABEL OF AN APPROVED AGENCY. THE CONNECTORS SHALL BE A MAXIMUM OF SIX FEET IN LENGTH. SEE FUEL GAS CODE 411.1
35. GAS PIPING SHALL BE IDENTIFIED AS A NATURAL GAS PIPING. IDENTIFICATION SHALL BE IN THE FORM OF A TAG, STENCIL OR OTHER PERMANENT MARKING, SPACED AT INTERVALS OF NOT MORE THAN 25 FEET AND NOT LESS THAN ONCE IN ANY ROOM OR SPACE.
36. PIPE JOINTS SHALL BE THREADED, FLANGED OR WELDED. JOINT COMPOUND SHALL BE RESISTANT TO THE ACTION OF LIQUEFIED PETROLEUM GAS OR TO ANY OTHER CHEMICAL CONSTITUENTS OF THE GAS TO BE CONDUCTED THROUGH THE PIPING.
37. JOINTS BETWEEN DIFFERENT METALLIC PIPING MATERIALS SHALL BE MADE WITH APPROVED DIELECTRIC FITTINGS TO ISOLATE ELECTRICALLY ABOVE GROUND PIPING FROM UNDERGROUND PIPING OR TO ISOLATE ELECTRICALLY DIFFERENT METALLIC PIPING MATERIALS JOINED UNDERGROUND.
38. STEEL GAS PIPING SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING 8'-0" UP TO 12", 8'-0" UP TO 1", AND 10'-0" LARGER THAN 1". SEE FUEL GAS CODE TABLE 415.1
39. CONCEALED GAS PIPING SHALL NOT BE LOCATED IN SOLID PARTITIONS AND SOLID WALLS, UNLESS INSTALLED IN A CHASE OR CASING.
40. GAS PIPING SHALL NOT BE INSTALLED IN OR THROUGH A CIRCULATING AIR DUCT, CLOTHES CHUTE, CHIMNEY OR GAS VENT, VENTILATING DUCT, DRAINWATER OR ELEVATOR SHAFT. PIPING INSTALLED DOWNSTREAM OF THE POINT OF DELIVERY SHALL NOT EXTEND THROUGH ANY TOWNHOUSE UNIT OTHER THAN THE UNIT SERVED BY SUCH PIPING.
41. PORTION OF GAS PIPING SYSTEM INSTALLED IN A CONCEALED LOCATION SHALL NOT HAVE UNIONS, TUBING FITTINGS, RIGHT AND LEFT COUPLINGS, BUSINESS COMPRESSION COUPLINGS AND SWING JOINTS MADE BY COMBINATIONS OF FITTINGS.
42. UNDERGROUND PIPING WHERE INSTALLED BELOW GRADE THROUGH OUTLET FOUNDATION OR BASEMENT WALL OF BUILDING, SHALL BE ENCASED IN A PROTECTIVE PIPE SLEEVE. THE ANNUAL SPACE BETWEEN THE GAS PIPING AND THE SLEEVE SHALL BE SEALED.
43. ALL GAS PIPING INSTALLED OUTDOOR SHALL BE ELEVATED NOT LESS THAN 3 1/2" ABOVE THE GROUND AS PER FUEL GAS CODE SECTION 404.7.
44. ALL GAS PIPING SHALL BE PROTECTED FROM CORROSION AS PER FUEL GAS CODE SECTION 404.8
45. UNDERGROUND GAS PIPING SHALL BE INSTALLED MINIMUM DEPTH OF 12 INCHES BELOW GRADE. SEE FUEL GAS CODE 404.9
46. GAS PIPING SHALL NOT BE INSTALLED BENEATH BUILDING EXCEPT WHERE PIPING IS ENCASED IN A CONDUIT OF WROUGHT IRON, PLASTIC PIPE OR STEEL PIPE DESIGNED TO WITHSTAND THE SUPERIMPOSED LOADS AS PER FUEL GAS CODE SECTION 404.11
47. ALL GAS PIPING SHALL BE INSPECTED, TESTED AND PURGED AS PER FUEL GAS CODE SECTION 406.
48. GAS PIPING (OTHER THAN DRY) SHALL BE SLOPED NOT LESS THAN 1/4" PER 15 FEET TO PREVENT TRAP.
49. SEDIMENT TRAP IS NOT INCORPORATED AS PART OF THE GAS UTILIZATION EQUIPMENT, A SEDIMENT TRAP SHALL BE INSTALLED DOWNSTREAM OF THE EQUIPMENT SHUT-OFF VALVE AS CLOSE TO THE INLET OF THE EQUIPMENT AS PRACTICAL. SEE FUEL GAS CODE SECTION 406.4
50. PRESSURE REGULATORS THAT REQUIRED VENT SHALL BE VENTED DIRECTLY TO THE OUTDOORS. THE VENT SHALL BE DESIGNED TO PREVENT THE ENTRY OF INSECTS, WATER, AND FOREIGN OBJECTS. VENT PIPING SHALL BE FULL SIZE OF PRESSURE REGULATOR VALVE CONNECTION.
51. HORIZONTAL UPPER COMBUSTION AIR DUCTS SHALL NOT SLOPE DOWNWARD TOWARD THE SOURCE OF COMBUSTION AIR. SEE FUEL GAS CODE SECTION 304-11
52. GAS APPLIANCE AND EQUIPMENT HAVING AN IGNITION SOURCE SHALL BE ELEVATED SUCH THAT THE SOURCE OF IGNITION IS NOT LESS THAN 18 INCHES ABOVE THE FLOOR IN HAZARDOUS LOCATIONS, PUBLIC GARAGES, PRIVATE GARAGES, REPAIR GARAGES, MOTOR FUEL-DISPENSING FACILITIES AND PARKING GARAGES AS PER FUEL GAS CODE SECTION 305.3
53. CLEARANCE TO COMBUSTIBLE MATERIAL IS IN ACCORDANCE OF FUEL GAS CODE 308.
54. PROVIDE 30" X 30" MINIMUM SERVICE SPACE AT THE FRONT OR SERVICE SIDE OF THE EQUIPMENT. SEE FUEL GAS CODE 306.3
55. TEST MEDIUM SHALL BE AIR, NITROGEN, CARBON DIOXIDE, OR INERT GAS. OXYGEN SHALL NOT BE USED. SEE FUEL GAS CODE 406.2
56. GAS PIPING SHALL NOT BE USED AS GROUNDING ELECTRODE. SEE FUEL GAS CODE 309-1
57. SEE GAS FUEL CODE FOR GAS PIPING BONDING.
58. FOR OTHER THAN STEEL PIPE, EXPOSED PIPING SHALL IDENTIFIED BY A YELLOW LABEL MARKED "GAS" IN BLACK LETTER. THE MARKING SHALL BE SPACE AT INTERVALS NOT EXCEEDING 5 FEET. SEE FUEL GAS CODE 401.5.
59. CAST IRON PIPE SHALL NOT BE USED. SEE GAS FUEL GAS CODE 403.4.1
60. COPPER AND BRASS PIPE OR TUBING SHALL NOT BE USED IF THE GAS CONTAINS MORE THAN AN AVERAGE OF 0.3 GRAINS OF HYDROGEN SULFIDE PER 100 STANDARD CUBIC FEET OF GAS.
61. PLASTIC PIPE, TUBING AND FITTING SHALL BE USED OUTDOORS ONLY. SEE FUEL GAS CODE 403.6 AND 404.14
62. PVC REGULATOR VENT PIPING SHALL NOT BE INSTALLED INSIDE.
63. IN CONCEALED LOCATIONS, WHERE PIPING OTHER THAN BLACK OR GALVANIZED STEEL IS INSTALLED THROUGH HOLES OR NOTCHES IN WOOD STUDS, JOISTS, RAFTERS, OR SIMILAR MEMBERS LESS THAN 1.5 INCHES FROM THE NEAREST EDGE OF THE MEMBER, PIPE SHALL BE PROTECTED BY SHIELD PLATES. SHIELD PLATES SHALL BE 1/16" THICK STEEL, SHALL COVER THE AREA OF THE PIPE WHERE THE MEMBER IS NOTCHED OR BORED AND SHALL EXTEND MINIMUM OF 4 INCHES ABOVE THE SOLE PLATES, BELOW TOP PLATES AND TO EACH SIDE OF A STUD, JOIST OR RAFTER. SEE FUEL GAS CODE 404.5
64. LEAK TESTING SHALL BE AS PER FUEL GAS CODE 406.
65. A TEE FITTING WITH ONE OPENING CAPPED OR PLUGGED SHALL BE INSTALLED BETWEEN THE MP REGULATOR AND ITS UPSTREAM SHUT-OFF VALVE. SEE FUEL GAS CODE 410.2
66. A TEE FITTING SHALL BE INSTALLED NOT LESS THAN 10 PIPE DIAMETERS DOWNSTREAM OF MP REGULATOR. SUCH FITTING SHALL BE POSITIONED TO ALLOW CONNECTION OF PRESSURE MEASURING INSTRUMENT AND TO SERVE AS A SEDIMENT TRAP. SEE FUEL GAS CODE 410.2
67. TERMINATE FLUE ABOVE ROOF IN ACCORDANCE WITH LOCAL AND STANDARD MECHANICAL CODE. PROVIDE ROOF JACK, WATERPROOF AT FLUE ROOF PENETRATIONS. LOCATIONS OF ROOF PENETRATION SHALL BE COORDINATED W/OWNER.
68. COORDINATE GRILLE AND DIFFUSER LOCATIONS WITH REFLECTED CEILING PLAN.
69. FLEXIBLE DUCT SHALL BE THERMAFLEX M-KC. (SEE LOCAL AND STANDARD MECHANICAL CODE).
70. MOUNT ALL THERMOSTATS AT 4'-6" AFF.(TOP)
71. PROVIDE LOCKING COVER FOR EACH THERMOSTATS.
72. PROVIDE SEVEN-DAY (5-1-1) DAY PROGRAMMABLE THERMOSTATS SINGLE/TWO STAGE HEAT-OFF-COOL-AUTO OR AS APPROVED BY ARCHITECT. CONTRACTOR SHALL MAKE SURE THAT THESE THERMOSTAT ARE COMPATIBLE WITH THE UNITS PROVIDED.
73. BRANCH DUCT FROM MAIN TO THE DIFFUSER SHALL BE SAME SIZE OF DIFFUSER NECK CONNECTION UNLESS OTHERWISE NOTED.
74. ALL CONDENSING UNITS SHALL BE MOUNTED ON 4" HIGH CONCRETE PAD AND PROVIDE CLEARANCE AROUND AND TOP OF THE UNITS AS RECOMMENDED BY THE MANUFACTURER.
75. CONTRACTOR SHALL PREPARE COMPLETE ISOMETRIC DRAWINGS OF REFRIGERANT PIPING AND SHALL BE APPROVED BY THE MANUFACTURER. CONTRACTOR SHALL SUBMIT MANUFACTURER APPROVED DRAWINGS TO THE ARCHITECT WITH MANUFACTURER LETTER STATING THAT REFRIGERANT PIPING IS IN ACCORDANCE WITH FACTORY RECOMMENDATIONS AND WILL NOT HARM EQUIPMENT.
76. PROVIDE AUXILIARY DRAIN PAN UNDER THE UNIT AS REQUIRED BY LOCAL AND STANDARD MECHANICAL CODE SECTION 307.
76. AN AUXILIARY DRAIN PAN WITHOUT A SEPARATE DRAIN LINE SHALL BE PROVIDED UNDER THE COILS ON WHICH CONDENSATE WILL OCCUR. SUCH PAN SHALL BE EQUIPPED WITH A WATER LEVEL DETECTION DEVICE THAT WILL SHUT-OFF THE EQUIPMENT SERVED PRIOR TO OVERFLOW OF THE PAN.
76. AN AUXILIARY DRAIN PAN WITH A SEPARATE DRAIN SHALL BE PROVIDED UNDER THE COILS ON WHICH CONDENSATION WILL OCCUR. THE AUXILIARY PAN DRAIN SHALL DISCHARGE TO A CONSPICUOUS POINT OF DISPOSAL TO ALERT OCCUPANTS IN THE EVENT OF A STOPPAGE OF THE PRIMARY DRAIN. THE PAN SHALL HAVE A MINIMUM DEPTH OF 1.5 INCHES. SHALL NOT BE LESS THAN 3 INCHES LARGER THAN THE UNIT OR THE COIL DIMENSIONS IN WIDTH AND LENGTH AND SHALL BE CONSTRUCTED OF CORROSION-RESISTANT MATERIAL. METALLIC PANS SHALL HAVE A MINIMUM THICKNESS OF NOT LESS THAN 0.0276 INCH GALVANIZED SHEET METAL. NON-METALLIC PANS SHALL HAVE A MINIMUM THICKNESS OF NOT LESS THAN 0.0625 INCH.
76. A SEPARATE OVERFLOW DRAIN LINE SHALL BE CONNECTED TO THE DRAIN PAN PROVIDED WITH THE EQUIPMENT. SUCH OVERFLOW DRAIN SHALL DISCHARGE TO A CONSPICUOUS POINT OF DISPOSAL TO ALERT OCCUPANTS IN THE EVENT OF A STOPPAGE OF THE PRIMARY DRAIN. THE OVERFLOW DRAIN LINE CONNECT TO THE DRAIN PAN AT A HIGHER LEVEL THAN THE PRIMARY DRAIN CONNECTION.
77. CONTRACTOR SHALL VERIFY DUCT PENETRATION THROUGH FIRE RATED WALL WITH ARCHITECTURAL FLOOR PLAN AND INCLUDE IN HIS BID ANY MISSING FIRE DAMPER AND ACCESS PANEL.
78. AIR SHALL BE BALANCED BY A CERTIFIED MECHANICAL BALANCING CONTRACTOR NOT AFFILIATED WITH TENANT'S MECHANICAL CONTRACTOR. CONTRACTOR SHALL PROVIDE SIX COPIES OF CERTIFIED BALANCING REPORT TO THE OWNER.
79. FRESH AIR INTAKES SHALL NOT BE TAKEN FROM A LOCATION CLOSER THAN 10'-0" FROM ANY SANITARY SEWER VENT OUTLET OR FLUE OR ANY EXHAUST AIR OUTLET, UNLESS SUCH OUTLET IS NOT LESS THAN 24 INCH ABOVE THE FRESH AIR INLET AND SHALL COMPLY LOCAL AND STANDARD MECHANICAL CODE.
80. DRAWINGS INDICATE LOCATIONS OF FIXTURES, APPARATUS, DUCTWORK AND PIPING; AND WHILE THESE ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE, IF IT IS NECESSARY TO CHANGE THE LOCATION OF SAME TO ACCOMMODATE BUILDING CONDITIONS, MAKE CHANGES WITHOUT ADDITIONAL COST TO THE OWNER AND AS APPROVED BY THE ARCHITECT.
81. PROVIDE ACCESS TO EQUIPMENT AND APPARATUS REQUIRING OPERATION SERVICE OR MAINTENANCE WITHIN THE LIFE OF THE SYSTEM.
82. DO NOT RUN PIPING OR DUCTWORK OR LOCATE EQUIPMENT (WITH RESPECT TO SWITCHBOARDS, PANEL BOARDS, POWER PANELS, MOTOR CONTROL CENTERS OR DRY TYPE TRANSFORMERS WITHIN 42" IN FRONT OF EQUIPMENT, OVER EQUIPMENT, OR WITHIN 36" HORIZONTALLY OF SAME SPACE.
83. CONTRACTOR SHALL STOP WORKING IF ANY ASBESTOS IS FOUND IN THE BUILDING AND INFORM THE ARCHITECT.
84. ALL MATERIALS AND EQUIPMENT SHALL FIT THE SPACE AVAILABLE, WITH MANUFACTURER'S RECOMMENDED CLEARANCE FOR ACCESS.
85. SCHEDULED FAN STATIC PRESSURES ARE ESTIMATED. PROVIDE AND ADJUST DRIVES TO DELIVER SCHEDULED AIR QUANTITIES AGAINST ACTUAL SYSTEM RESISTANCE. CONTRACTOR SHALL MAKE CHANGES TO SNEAKS, BELTS, VALVES, AND DAMPERS OR PROVIDE ADDITIONAL DAMPERS REQUIRED TO PROVIDE AIR QUANTITIES SHOWN ON THE DRAWINGS.
86. PROVIDE LABELS FOR EACH EQUIPMENT. LABELS TO BE ENGRAVED LAMINATED BAKELITE NAMEPLATES WITH 1/4" HIGH WHITE OUT LETTERS; SECURE TO EQUIPMENT.
87. DIMENSIONS, CONNECTIONS, AND INSTALLATION DETAILS OF EQUIPMENT SUPPLIED BY SEVERAL ACCEPTABLE MANUFACTURERS MAY VARY. CONTRACTOR SHALL BE FULLY RESPONSIBLE OF COMPLIANCE WITH REQUIREMENTS OF PLANS AND SPECIFICATION FOR ANY SUBSTITUTE EQUIPMENT.
88. BLADES OF FIRE DAMPERS SHALL BE OUT OF AIR STREAM.
89. CONTRACTOR SHALL NOT FABRICATE ANY DUCT WORK WITHOUT COORDINATING WITH OTHER DISCIPLINE AND VERIFYING THE CLEARANCE ABOVE THE CEILING.
90. DUCT OR PIPE PENETRATING A FIRE RATED WALL OR FLOOR SHALL BE SEALED WITH THE FIRESTOP SEALANT.
91. ACCEPTABLE MANUFACTURERS: SAMSUNG, PANASONIC, DAIKIN, HITACHI, LG, CARRIER, TRANE, LENOX, YORK, TITUS, KRUEGER, PENN. ADME, COOK.
92. CONTRACTOR SHALL SUBMIT EQUIPMENT DATA FOR APPROVAL.
93. START-UP OF MECHANICAL SYSTEMS SHOULD INCLUDE TEMPORARY FILTERS TO ELIMINATE CONSTRUCTION DUST AND DEBRIS, AND SYSTEM FLUSHING WITH MAXIMUM OUTSIDE AIR INTAKE FOR AN EXTENDED PERIOD TO DISSIPATE CHEMICALS DISCHARGED FROM BUILDING MATERIALS AND PRODUCTS. INSTALL PERMANENT FILTERS PRIOR TO BUILDING OCCUPANCY BY OWNER. PROVIDE INSTALLATION AND START-UP CERTIFICATION FROM MAJOR EQUIPMENT MANUFACTURERS.
94. FLUE FOR WATER HEATER SHALL BE INSTALLED BY MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED. SEE PLUMBING DRAWINGS.
95. BACK SIDE OF (NON-AIR-CONDITIONING SIDE) SUPPLY DIFFUSER INCLUDING FLANGE SITING ON METAL CEILING GRID SHALL BE INSULATED TO PREVENT CONDENSATION. INSULATION SHALL BE ADHERE TO DIFFUSER TO PREVENT ANY AIR MOVEMENT BETWEEN DIFFUSER AND INSULATION. INSULATION IS NOT REQUIRED IF CEILING IS USED AS A RETURN AIR FLENUM.
96. THIS CONTRACTOR SHALL GIVE ALL ELECTRICAL INFORMATION (INCLUDING VOLTAGES, AMPS, PHASE) PERTAINING TO MECHANICAL EQUIPMENT TO ELECTRICAL CONTRACTOR BEFORE FINAL CONTRACT SO THAT ELECTRICAL CONTRACTOR INCLUDES IN HIS CONTRACT. CONTRACTOR SHALL GET APPROVAL FROM ELECTRICAL CONTRACTOR BEFORE ORDERING EQUIPMENT.
97. MOUNTING FRAME OF CEILING MOUNTED AIR DISTRIBUTION DEVICES SHALL BE COMPATIBLE WITH CEILING TYPE.
98. FLEXIBLE DUCT RUN-OUTS TO DIFFUSERS SHALL BE INSTALLED FREE OF KINKS AND SAGS.
99. PORTION OF DUCTWORK OR PIPING VISIBLE THROUGH GRILLES AND REGISTERS IN FINISHED AREAS SHALL BE PAINTED FLAT BLACK.
100. PROVIDE MANUAL VOLUME DAMPER IN OUTSIDE AIR INTAKE DUCT AT RETURN AIR DUCT CONNECTION AND IN RETURN AIR DUCT TO BALANCE OUTSIDE AIR AND RETURN AIR REGARDLESS WHETHER IT IS SHOWN ON PLANS OR NOT.
101. CONTRACTOR SHALL NOT PURCHASE ANY EQUIPMENT WITHOUT WRITTEN APPROVAL OF MECHANICAL, ELECTRICAL, AND STRUCTURAL ENGINEER. ARCHITECT AND ENGINEER MAY NOT HAVE CO-ORDINATED FINAL EQUIPMENT DATA.
102. ALL VRF SYSTEM SHALL COMPLY WITH ASHRAE STANDARD 15 SAFETY STANDARD FOR REFRIGERATION SYSTEMS. REQUIREMENTS FOR VRF SYSTEM, NOT IN HOSPITAL OR JAIL (MORE DIFFICULTY FOR EVACUATION), INDUSTRIAL MIXED OCCUPANCY (DIRECT SYSTEM, CLASS A1 LOWER TOXICITY, REFRIGERANT CONCENTRATION LIMIT (ROL VALUE-# OF REFRIGERANT PER 1000 CU. FT.)
103. ALL REFRIGERANT PIPES SHALL BE INSULATED WITH U EQUAL 0.20 TO 0.26 , 1" THICK, AND COVER WITH THE PVC PIPE JACKET.
104. OUTSIDE AIR DUCT INSULATION SHALL BE REFLECTIX R-8 OR APPROVED.

Apr 21 2023 1 C:\2021-001\jackson animal\2021-001\101-3123.dwg

REVISIONS					
Number	Date	Remarks	Number	Date	Remarks
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CONSULTANTS

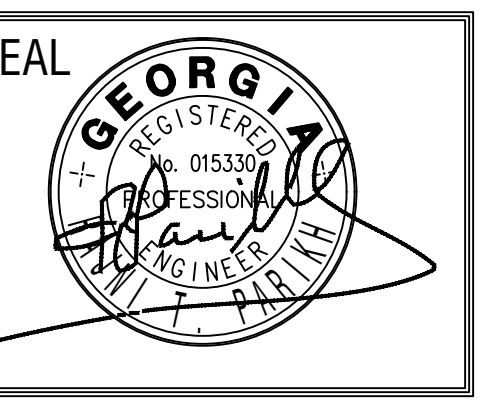
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JACKSON COUNTY ANIMAL SHELTER
JEFFERSON, GEORGIA

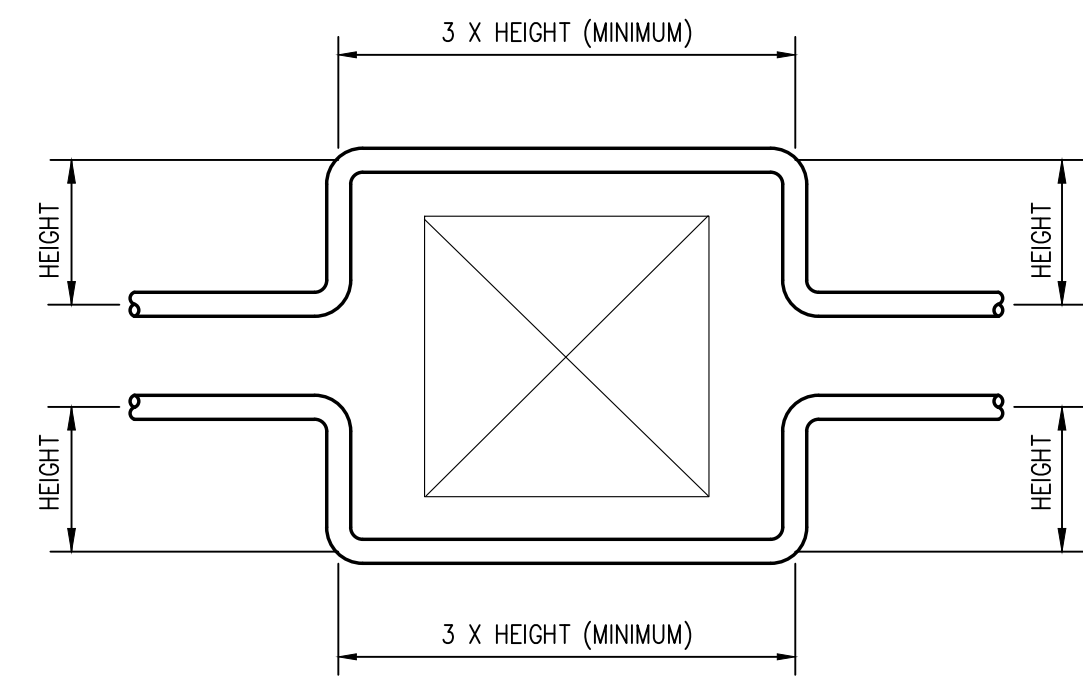
SHEET TITLE:
HVAC GENERAL NOTES

PRINTED: 04/21/23

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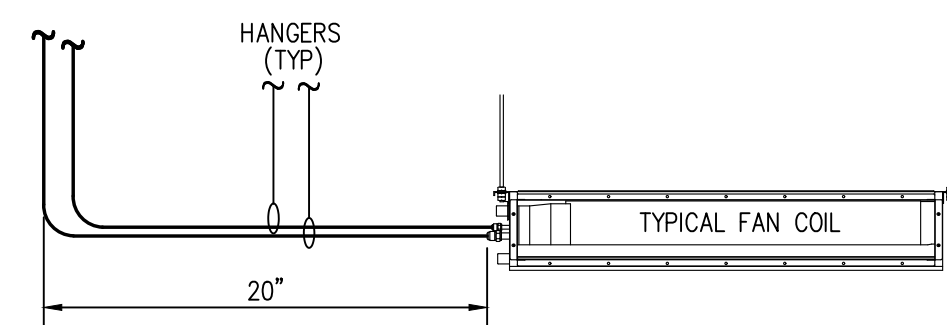
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- NOTES
1. WHEN AN OBSTACLE, SUCH AS A BEAM OR CONCRETE STRUCTURE, IS IN THE PATH OF THE PLANNED REFRIGERANT PIPE RUN, IT IS BEST PRACTICE TO ROUTE THE PIPING OVER THE OBSTACLE OR UNDER.
 2. IF ADEQUATE SPACE IS NOT AVAILABLE TO ROUTE THE INSULATED PIPE OVER THE OBSTACLE, THEN ROUTE THE PIPE UNDER THE OBSTACLE.
 3. IN EITHER CASE, IT IS IMPERATIVE THE LENGTH OF THE HORIZONTAL SECTION OF PIPE ABOVE OR BELOW THE OBSTACLE BE A MINIMUM OF THREE (3) TIMES THE LONGEST VERTICAL RISE (OR FALL) AT EITHER END OF THE SEGMENT.

PIPING UNDER/OVER OBSTACLES DETAIL

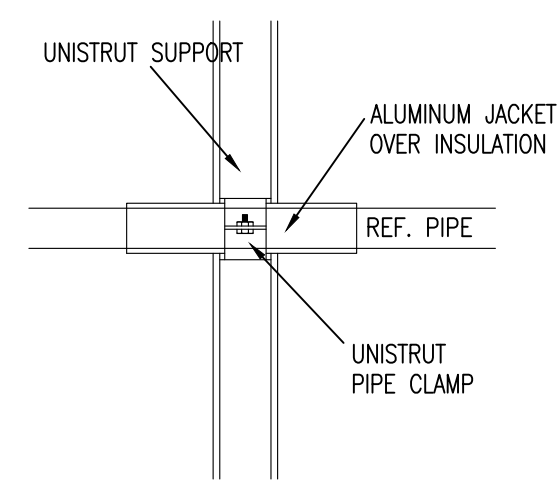
NOT TO SCALE



TYPICAL ALL FAN COIL UNITS

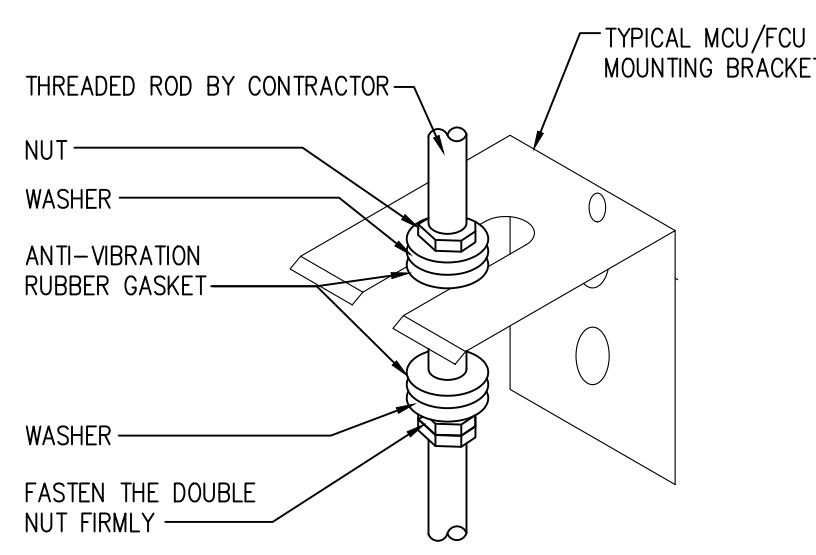
RECOMMENDED PIPE CLEARANCES FOR INDOOR UNITS

NOT TO SCALE (REFER TO MANUFACTURERS INSTRUCTIONS)



REFRIGERANT PIPE UNISTRUT SUPPORT

NOT TO SCALE



TYPICAL ABOVE CEILING MOUNTING DETAIL

NOT TO SCALE

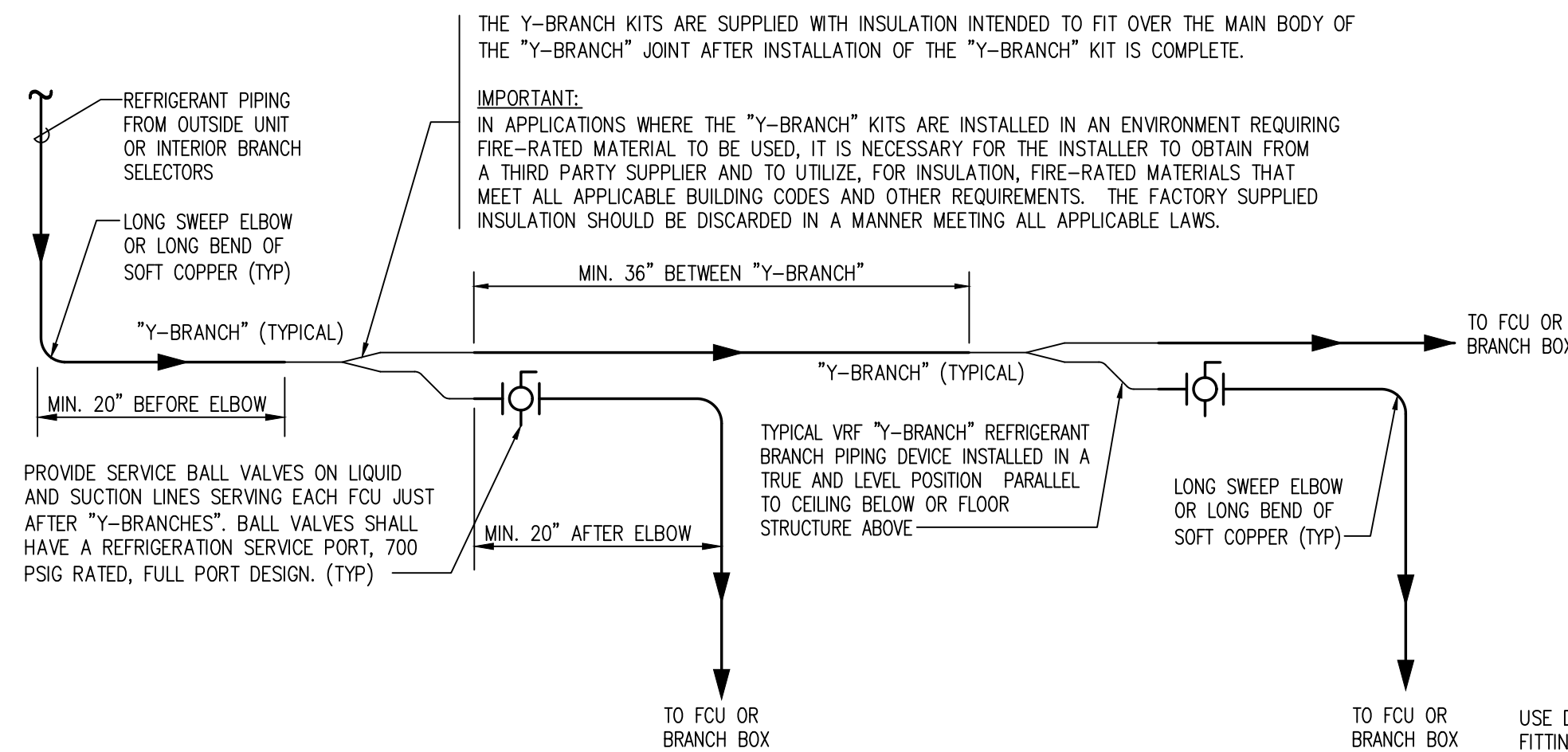
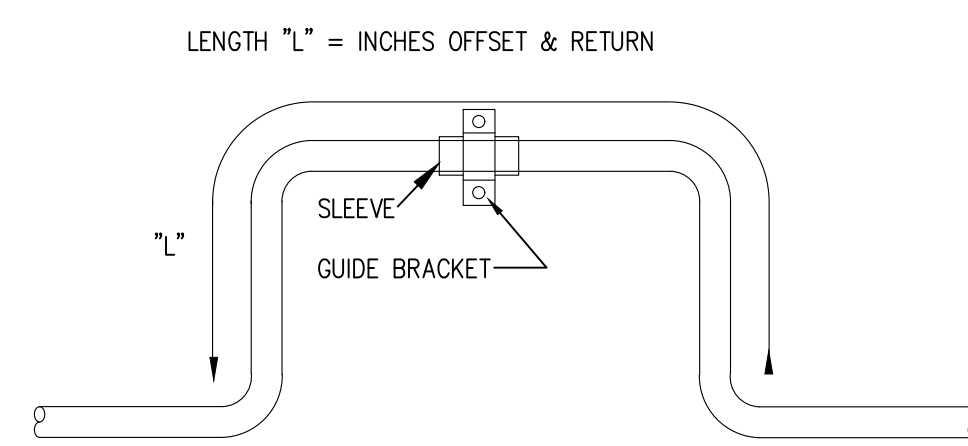


DIAGRAM - "Y-BRANCH" PIPING CLEARANCE REQUIREMENTS

NOT TO SCALE (REFER TO MANUFACTURERS INSTRUCTIONS)



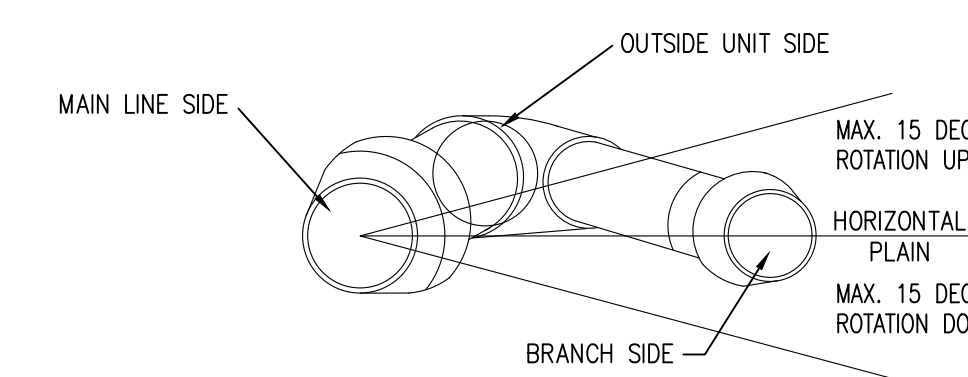
NOTE: CALCULATION FOR EXPANSION AND CONTRACTION SHOULD BE BASED ON THE AVERAGE COEFFICIENT OF EXPANSION OF COPPER WHICH IS 0.0000094 INCH PER INCH PER DEGREE F, BETWEEN 70° F AND 212° F.

(EXAMPLE: EXPANSION OF A 100 DEGREE F RISE FOR EACH 100 FT. OF ANY SIZE IS 1.28 INCHES)

EXPANSION DIMENSION "L" FOR OFFSET & RETURN TO BE BASED ON THE EXPECTED EXPANSION INCHES PER DIMENSION OF PIPE

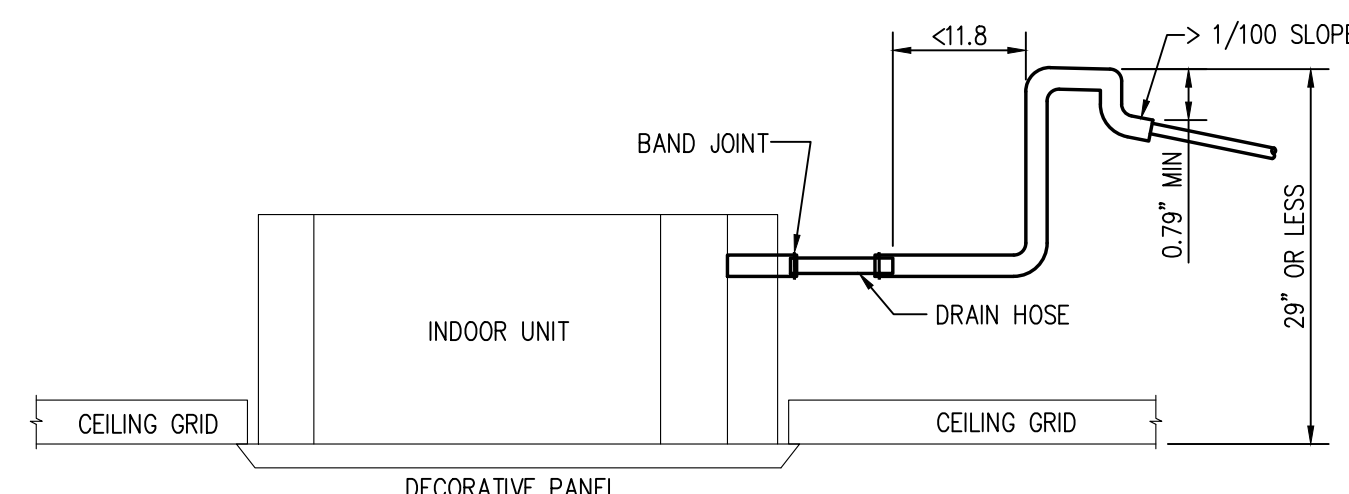
PLAN - EXPANSION LOOPS

NOT TO SCALE



MAXIMUM ROTATION OF HORIZONTAL INSTALLED "Y-BRANCH"

NOT TO SCALE (REFER TO MANUFACTURERS INSTRUCTIONS)

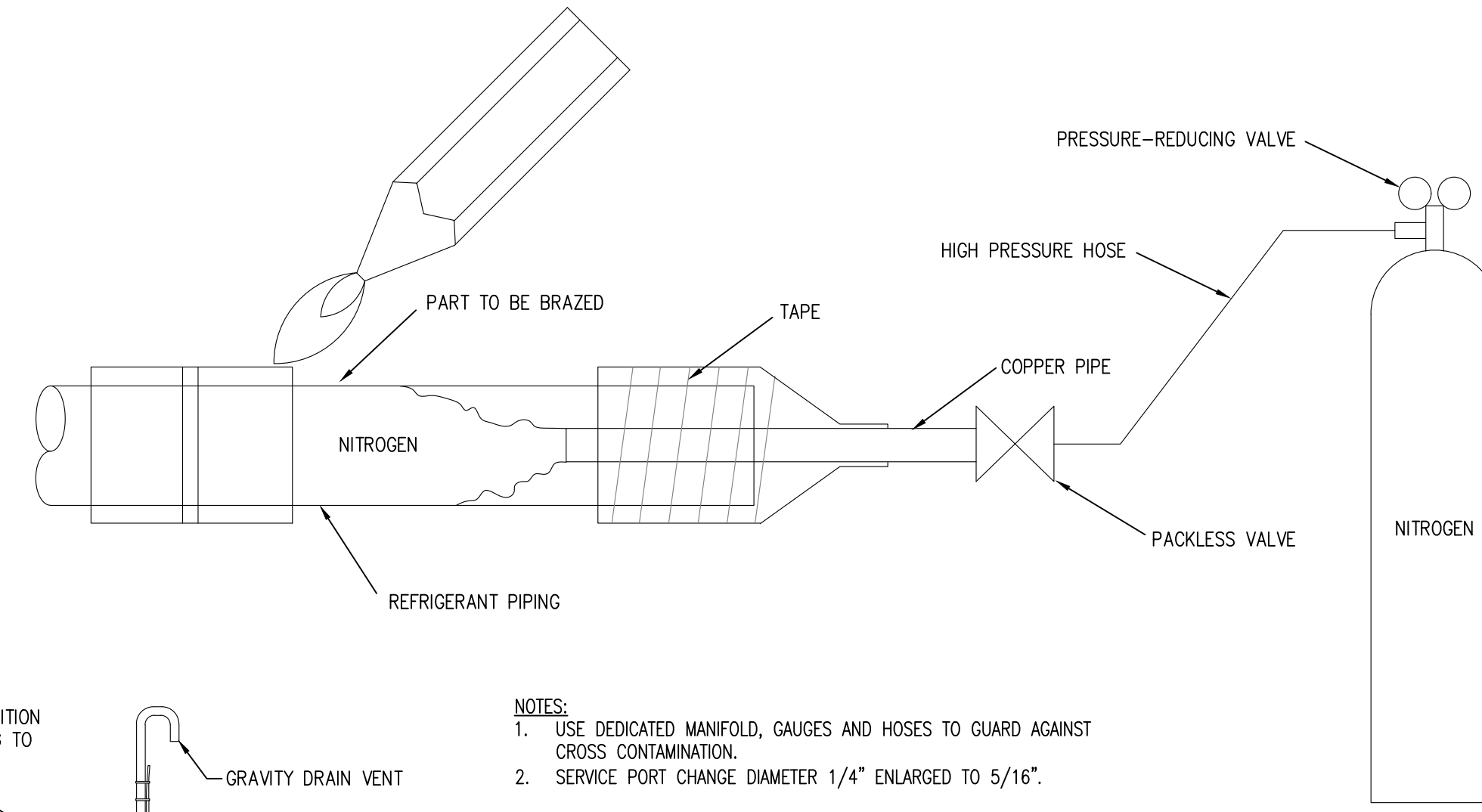


- NOTES
- CURRENT CEILING CASSETTE MODELS HAVE CONDENSATE LIFT PUMPS RATED FOR A MAXIMUM 29" OF LIFT FROM THE BOTTOM OF THE UNIT
 - INSIDE DIAMETER OF THE CONDENSATE DRAIN OUTLET & RISER PIPING MUST NOT EXCEED 3/4" ID
 - THE FLEXIBLE HOSE SHOULD BE INSTALLED LEVEL OR BENT DOWNWARD
 - ALL CONDENSATE LINES MUST BE INSULATED THROUGHOUT THE BUILDING
 - THE HORIZONTAL MAIN CONDENSATE LINES MUST BE PROPERLY SUPPORTED WITH HANGARS EVERY 40" TO 60"
 - CONDENSATE PIPING INSTALLATION MUST BE IN ACCORDANCE WITH STATE AND LOCAL CODES

TYPICAL FOR 360, 4-WAY, 4-WAY MINI, AND 1-WAY CASSETTE FAN COIL UNITS

CONDENSATE PUMP DRAIN PIPING DETAIL

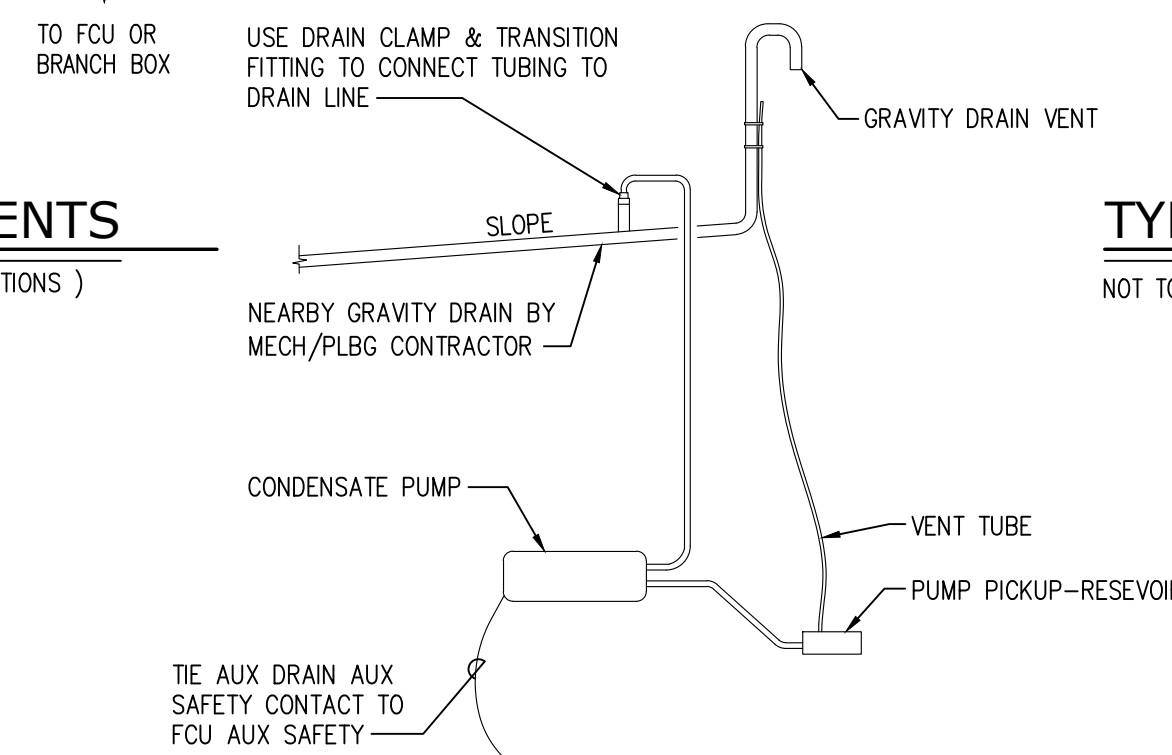
NOT TO SCALE



TYPICAL NITROGEN PURGING SET-UP

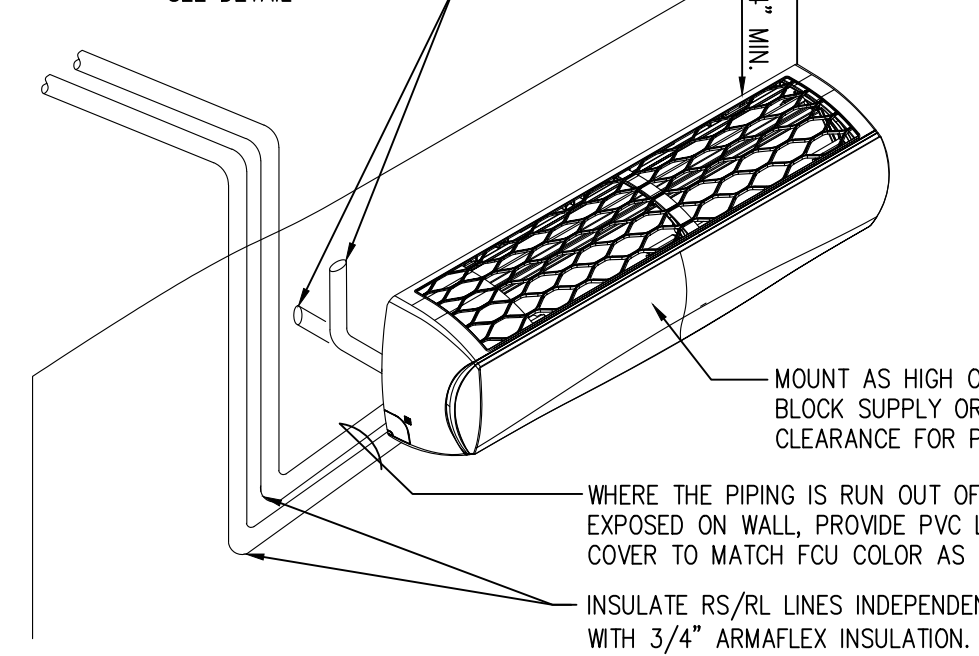
NOT TO SCALE

- NOTES
1. USE DEDICATED MANIFOLD, GAUGES AND HOSES TO GUARD AGAINST CROSS CONTAMINATION.
 2. SERVICE PORT CHANGE DIAMETER 1/4" ENLARGED TO 5/16"



CONDENSATE PUMP DETAIL

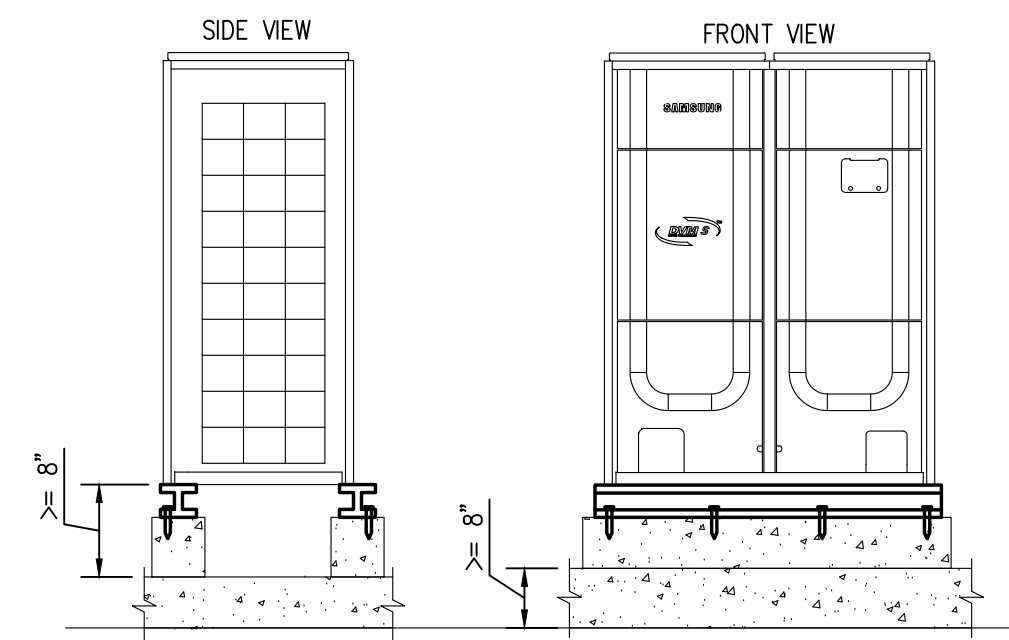
ROUTE CONDENSATE PIPING DIRECTLY OUT OF EXTERIOR WALL WHERE SHOWN ON PLAN (WITH 3/4" INSULATION) OR TO PUMP TO LIFE CONDENSATE TO THE CONDENSATE REMOVAL SYSTEM. SEE DETAIL.



- NOTES
1. PROVIDE MANUFACTURER'S CONDENSATE PUMP MIN: ASP-MO-UNIV 110-250, 115-230V WITH 33" HEAD, 5'-0" SUCTION LIFT OR GRAVITY FEED TO DRYWELL OR FLOOR DRAIN.

INDOOR WALL MOUNTED FCU DETAIL

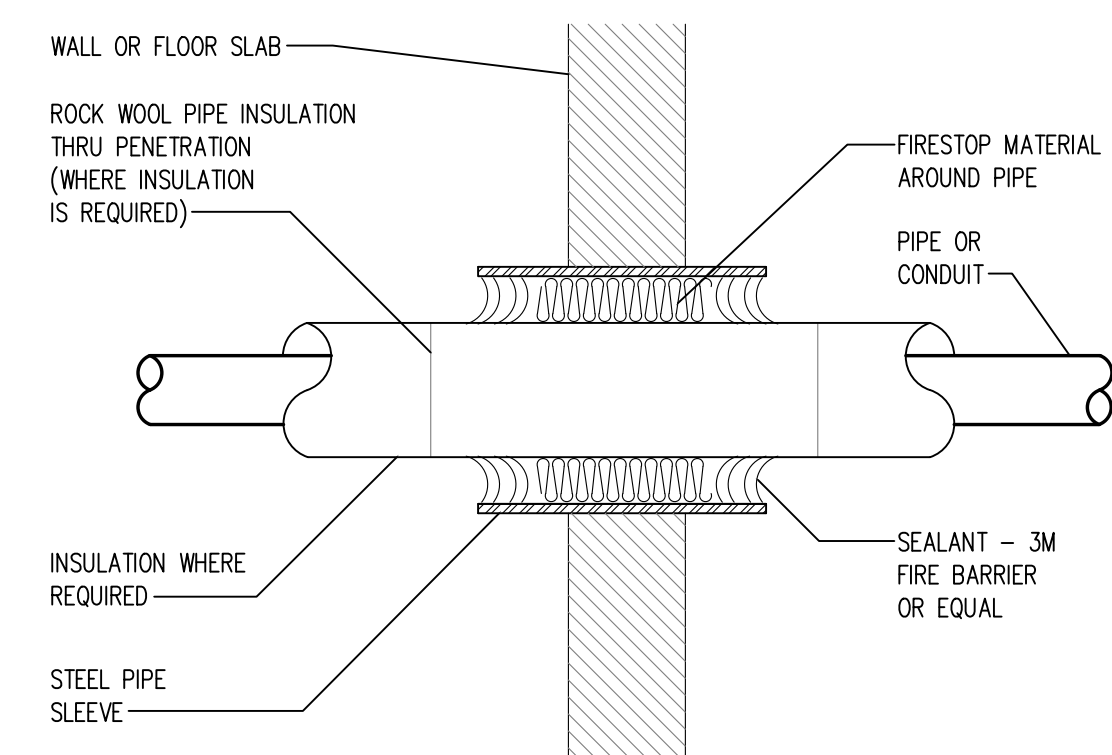
NOT TO SCALE



- NOTES
- SUPPORT THE OUTDOOR UNIT ABOVE GRADE A MINIMUM OF 8 INCHES
 - FRONT AND REAR FACE TO BE SUPPORTED FULL LENGTH OF CABINET
 - EACH UNIT MUST BE SECURELY ANCHORED TO THE BASE SUPPORT: ROOF OR GROUND
 - SUPPORT THE FULL WIDTH OF THE UNIT FRONT & REAR
 - (INDIVIDUAL UNIT WEIGHT 413-83 LB. DEPENDING ON MODEL)
 - THE OUTDOOR UNITS MUST BE PROPERLY ANCHORED FOR STABILITY IN WINDY CONDITIONS
 - AVOID LOCATIONS WHERE BUILDING EXHAUSTS ARE PRESENT
 - BATHROOM, KITCHEN, OXIDES, SULEUR, ETC.
 - PLACE OUTDOOR UNITS WHERE SERVICE AND MAINTENANCE ACCESS IS MAINTAINED
 - SUPPORT AS PER LOCAL CODES

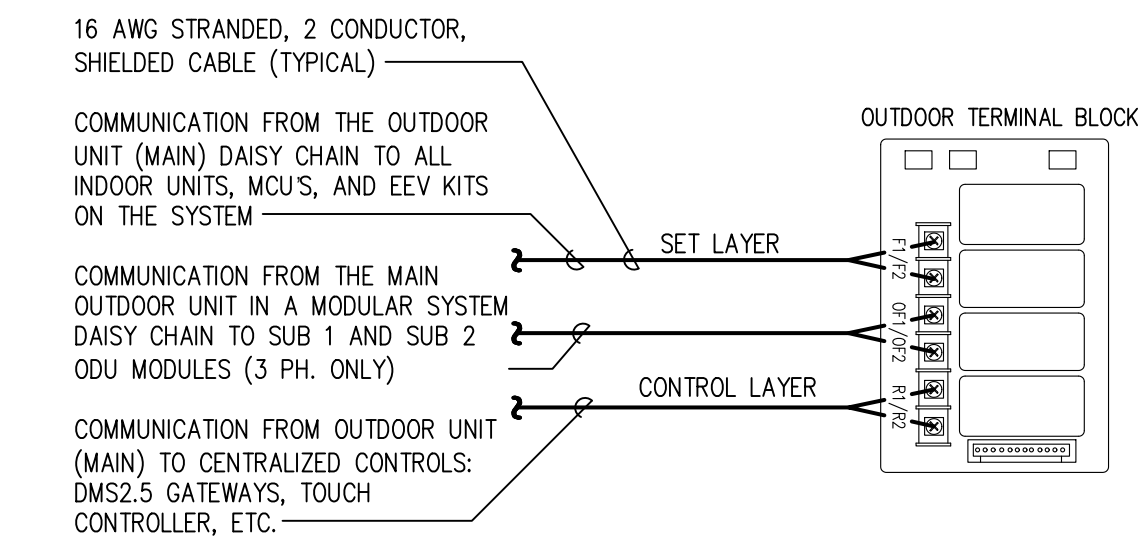
CONDENSING UNIT MOUNTING DETAIL

NOT TO SCALE

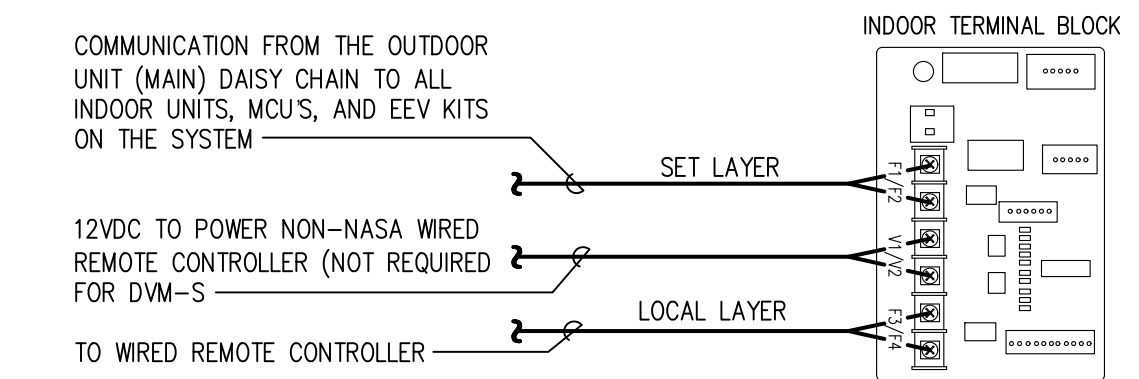


FIRE RATED WALL PENETRATION DETAIL

NOT TO SCALE



OUTDOOR UNIT TERMINAL BLOCK



INDOOR UNIT TERMINAL BLOCK

TERMINAL BLOCK WIRING DETAIL

NOT TO SCALE

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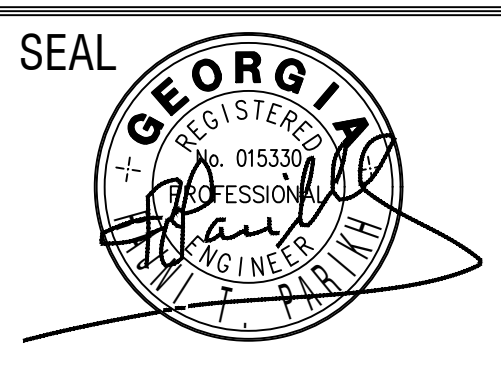
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JACKSON COUNTY ANIMAL SHELTER
JEFFERSON, GEORGIA

SHEET TITLE: DETAILS
PRINTED: 04/21/23

NUMBER: M-5

LEGEND

ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT
MOUNTING HEIGHT FROM THE CENTER OF ITEM

FIRE ALARM SYSTEM

	MANUAL PULL STATION, 4'-0" AFF
	COMBINATION ALARM HORN/STROBE, 6'-8" AFF
	UNIT MINI-HORN
	CEILING MOUNTED SYSTEM SMOKE DETECTOR
	SINGLE STATION UNIT SMOKE DETECTOR
	DUCT SMOKE DETECTOR
	STROBE ALARM, 6'-8" AFF
	FIRE ALARM CONTROL PANEL, TOP AT 6'-6" AFF
	FIRE ALARM ANNUCIATOR, FLUSH, 5'-0" AFF

POWER/MOTORS

	MOTOR
	DISCONNECT SWITCH, AMPS/POLES/FUSE
	PANELBOARD
	MOTOR STARTER

SIGNAL COMMUNICATIONS

	TELEPHONE OUTLET 18" AFF, RUN 3/4" CONDUIT TO IT ROOM STRING 0'-6" ABOVE CEILING AND/OR INSULATION.
	TELEPHONE/DATA OUTLET 18" AFF, RUN 3/4" CONDUIT TO IT ROOM
	TELEVISION OUTLET, STUB 1" CONDUIT, WITH PULL STRING FROM RECESSED JUNCTION BOX 0'-6" ABOVE CEILING AND/OR INSULATION

WIRING

	SINGLE POLE SWITCH, 3/6" AFF
	SUBSCRIPT INDICATES NUMBER OF POLES FOR SWITCH 3 FOR 3 WAY, 4 FOR 4 WAY, M FOR MOTOR CONTROLLER
	CONDUIT IN WALL OR ABOVE CEILING
	CONDUIT IN FLOOR SLAB OR UNDER GROUND
	EXPOSED CONDUIT
	HOME RUN, 2#12 AND 1#12 GROUND COPPER THHN 1/2" C OR AS NOTED.
	JUNCTION BOX, CEILING WALL
	THERMOSTAT

RECEPTACLES/WIRING DEVICES

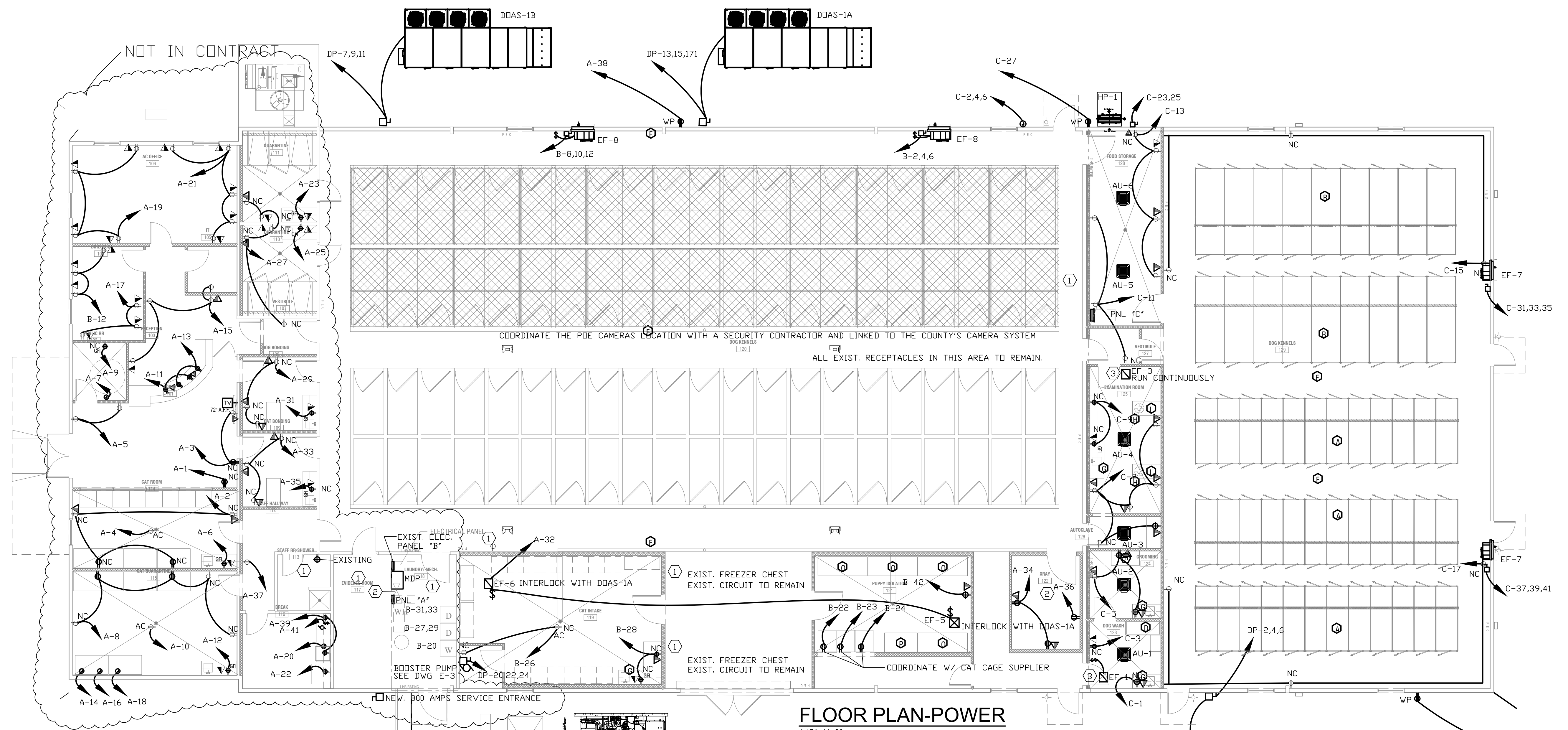
	DUPLEX OUTLET, 20A, 125V, HUBBELL #BR20C1WH* DR EQUAL (MOUNT 18" AFF.)-HALF CONTROL
	DUPLEX OUTLET, 20A, 125V, HUBBELL #CBR20* DR EQUAL (MOUNT 18" AFF.)
	DUPLEX OUTLET MOUNTED ABOVE COUNTER (COORDINATE W/ CABINET WORK)
	DUPLEX OUTLET IN FLOOR PLUS CARPET RING FOR CARPET
	DUPLEX OUTLET W/G.F.I., HUBBELL #GF5352*A DR EQUAL (MOUNT 18" AFF)
	DUPLEX OUTLET W/G.F.I. MOUNTED ABOVE COUNTER
	SPECIAL OUTLET FOR DRYER, 30A, 125/250V, HUBBELL #HBL9350 DR EQUAL (MOUNT AFF)

	LEVINTON OCCUPANCY SENSOR OSC05/10/20-MWV
	LEVINTON OCCUPANCY SENSOR OSW12-MDW
	LEVINTON OCCUPANCY SENSOR SWITCH-DSMTT
	HALLWAY SENSOR SHALL REDUCE LIGHT 50% NO OCCUPANCY
	WALL SWITCH WITH ON/OFF AND DIMMING -ADAPTABLE
	WALL SWITCH LEVINTON-RLVSW-4LW
	LEVINTON OCCUPANCY SENSOR OSC05/10/20-MWV

COPPER WIRING SCHEDULE

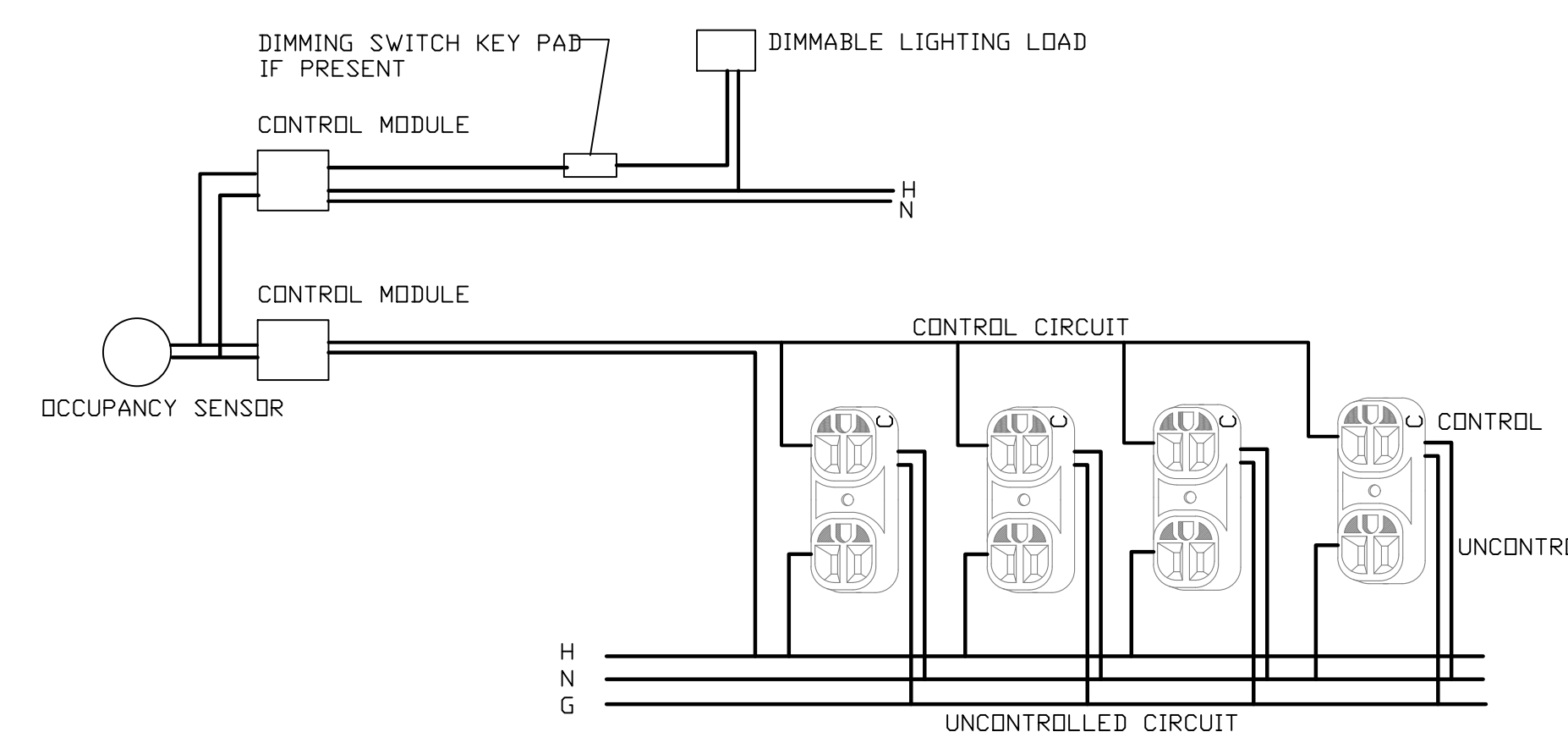
BREAKER SIZE	WIRING SIZE	DISCONNECT SIZE
20/1	2#12,1#12G, 1/2"C	30/2/NF
20/2	3#12,1#12G, 1/2"C	30/2/NF
20/3	3#12,1#12G, 1/2"C	30/3/NF
30/1	2#10,1#10G, 1/2"C	30/2/NF
30/2	3#10,1#10G, 1/2"C	30/2/NF
30/3	3#10,1#10G, 1/2"C	30/3/NF
40/1	2#8,1#10G, 3/4"C	60/2/NF
40/2	3#8,1#10G, 3/4"C	60/2/NF
40/3	3#8,1#10G, 3/4"C	60/3/NF
50/1	2#6,1#10G, 3/4"C	60/2/NF
50/2	3#6,1#10G, 3/4"C	60/2/NF
50/3	3#6,1#10G, 3/4"C	60/3/NF
60/1	2#4,1#10G, 1"C	60/2/NF
60/2	3#4,1#10G, 1"C	60/2/NF
60/3	3#4,1#10G, 1"C	60/3/NF
70/1	2#4,1#8G, 1"C	100/2/NF
70/2	3#4,1#8G, 1"C	100/2/NF
70/3	3#4,1#8G, 1"C	100/3/NF
80/1	2#3,1#8G, 1"C	100/2/NF
80/2	3#3,1#8G, 1 1/4"C	100/2/NF
80/3	3#3,1#8G, 1 1/4"C	100/3/NF
90/1	2#2,1#8G, 1 1/4"C	100/2/NF
90/2	3#2,1#8G, 1 1/4"C	100/2/NF
90/3	3#2,1#8G, 1 1/4"C	100/3/NF
100/1	2#1,1#8G, 1 1/4"C	100/2/NF
100/2	3#1,1#8G, 1 1/4"C	100/2/NF
100/3	3#1,1#8G, 1 1/4"C	100/3/NF

* MAXIMUM LENGTH=100 FT.
** OUTDOOR DISCONNECT SHALL BE WEATHERPROOF
PROVIDE NEUTRAL WIRE FOR DRYER, RANGE, AND DVN.



FLOOR PLAN-POWER

- 1/8"=1'-0"
- 1 EXIST. CIRCUIT TO REMAIN
 - 2 RUN 2" CONDUIT FROM PNL 'B' AND TERMINATE ABOVE THE CEILING FOR FUTURE X-RAY
 - 3 RECONNECT TO THE LOCAL LIGHTING CIRCUIT



LIGHTING AND RECEPTACLES CONTROL

NO SCALE
OPTIONAL: WIRELESS OCCUPANCY SENSOR

EQUIPMENT LIST - SEE PROJECT MANUAL FOR DETAILED EQUIPMENT SPECIFICATION

QTY	DESCRIPTION	UNIT	OWNER
36	MASON COMPANY SANS-KENNEL DR EQ	GC	GC
36	MASON COMPANY SANS-KENNEL DR EQ	GC	GC
36	MASON COMPANY SANS-KENNEL DR EQ	GC	GC
16	BATHING TABLE	GC	GC
1	MASON BSS 300 GROOMING TABLE	GC	GC
1	HOSE REEL	GC	GC
1	SURGERY LIGHT	GC	GC
1	REFRIGERATOR	GC	GC
1	SUB SURG EXAM TABLE	GC	GC
1	MASON CO CAT ISOLATION UNIT	GC	GC
1	MASON COMPANY DR EQ	GC	GC
1	MASON COMPANY DR EQ	GC	GC
1	SUB SURG EXAM TABLE	GC	GC

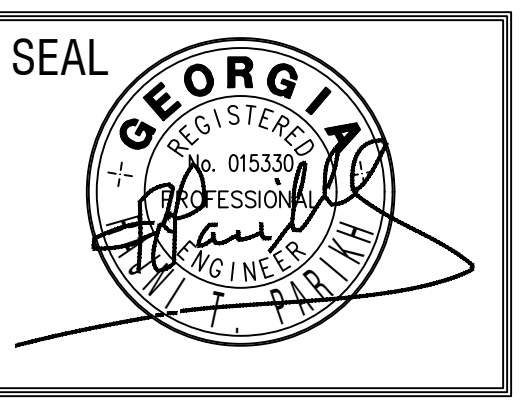
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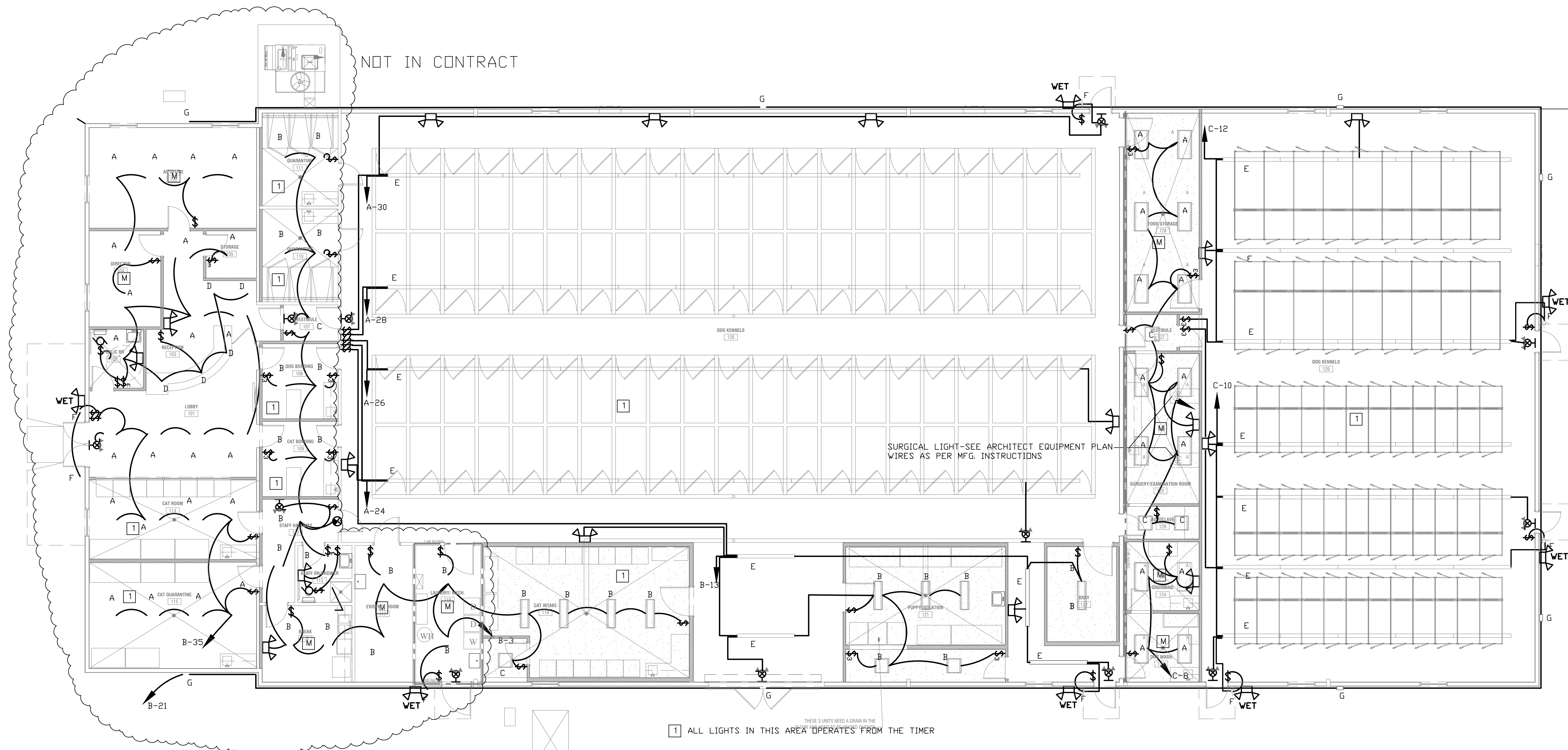
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JACKSON COUNTY ANIMAL SHELTER
JEFFERSON, GEORGIA

SHEET TITLE:
FLOOR PLAN - POWER
LEGEND, WIRING SCHEDULE
PRINTED: 04/21/23

NUMBER:
E-1



FLOOR PLAN-LIGHTS
1/8"=1'-0"

EMERGENCY LIGHTS NOTES:

1. THE BRANCH CIRCUIT FEEDING THE EMERGENCY LIGHT AND EXIT LIGHT SHALL BE THE SAME BRANCH CIRCUIT AS THAT SERVING THE NORMAL LIGHTING IN THE AREA AND CONNECTED AHEAD OF ANY LOCAL SWITCHES AS PER NEC CODE 700-12(E).
- a. EMERGENCY AND EXIT LIGHTS CONNECTED TO CIRCUITS CONTROLLED BY TIME CLOCK, OR PHOTOCELL SHALL HAVE BYPASS MEANS TO BE CONTINUOUSLY ENERGIZED WHEN CIRCUIT IS ACTIVE.
- b. CIRCUIT WITH EMERGENCY AND EXIT LIGHTS WITH NO SWITCH, TIME CLOCK OR PHOTOCELL SHALL BE PROGRAMMED TO OPERATE CONTINUOUSLY.

LIGHT FIXTURES SCHEDULE (CONTRACTOR MUST VERIFY THE TYPE OF CEILING-SEE ARCHITECT DRAWING)

Symbol	Label	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens per Lamp	Lumen Multiplier	LLF	Wastage	Efficiency
[Symbol A]	A	ADVANTAGE	CLE1-48-36-18-18-5 M-LED- WET LOCATION	ADVANTAGE 36X SURFACE MOUNTED LED LUMINAIRE POST PAINTED				4650	1	0.95	33	100%
[Symbol B]	B	ADVANTAGE	CLE1-48-36-18-18-5 SURFACE MOUNTED	FROSTED ACRYLIC DIFFUSER				4650	1	0.95	33	100%
[Symbol C]	C	ADVANTAGE	CLE1-40-36-18-18-5 M-LED- WET LOCATION	ADVANTAGE 36X SURFACE MOUNTED LED LUMINAIRE POST PAINTED				4650	1	0.95	33	100%
[Symbol D]	D	Cree Inc	S-DL4-11L-40K w_S-DL4T-M&S&C	4-inch Downlight, 11L Lumen Package, 4000K, Medium Distribution	CXB1512	1	S-DL4-11L-40K w_S-DL4T-M&S&C_P140846-001A.IES	962	1	0.95	11.18	100%
[Symbol E]	E	Industrial Lighting Products Inc	WTZB-10L-U-50-RAFL SURFACE MOUNTED	Amazon 8ft, 10,000 Lumens, 5000K, Ribbed Acrylic Frosted Lens.		1	WTZB-10L-U-50-RAFL.ies	10539	1	0.95	76.21	100%
[Symbol F]	F	KUZCO	LUND-EV3210					1600	1	0.95	24	100%
[Symbol G]	G	TRACE-LITE	WLZ7-4-9K-RL-PC					5021	1	0.95	70	100%
[Symbol H]	H	EXITRONIX	ILXR-EM-BL	EXIT LIGHT				5021	1	0.95	70	100%
[Symbol I]	I	EXITRONIX	VLED-U-BL-EL19-G2	COMBO EMERGENCY AND EXIT LIGHT								
[Symbol J]	J	EXITRONIX	LED-90-RL-G2	EMERGENCY LIGHT								
[Symbol K]	K	EXITRONIX	LUMINA-RL-BL	WET LABEL AT THE EXIST DOOR								

Apr 28 2023 1:00:00 PM Jackson Animal/2021-1001-02-3123.dwg

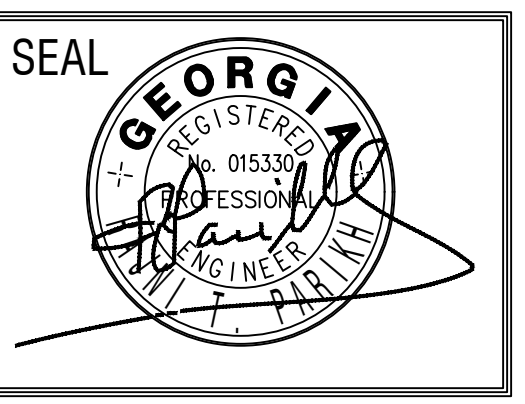
REVISIONS					
Number	Date	Remarks	Number	Date	Remarks
X	00-00-00	N/A			

CONSULTANTS

Date Plotted: Apr 28, 2023 - 10:44am
file: 2021-00152-3123.DWG

ATLANTA MANAGEMENT AND ENGINEERING CONSULTANTS, INC.
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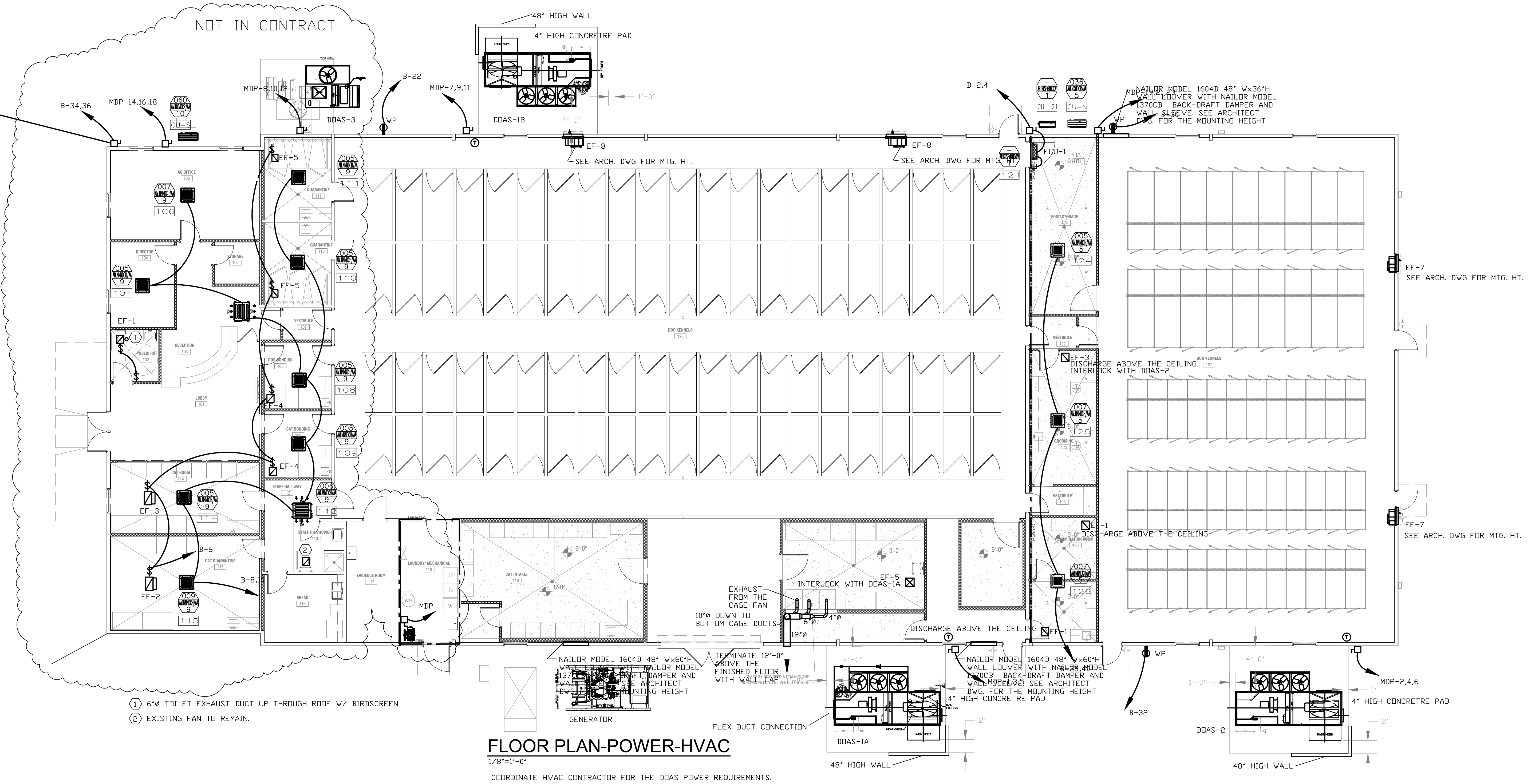
JACKSON COUNTY ANIMAL SHELTER
JEFFERSON, GEORGIA

SHEET TITLE:
FLOOR PLAN - LIGHTS
LIGHT FIXTURES SCHEDULE
PRINTED: 04/28/23

NUMBER:
E-2

JACKSON CO. ANIMAL SHELTER PRINTED DATE: 04/28/23 This Document is the property of Carter Watkins Associates. Reproduction of any part is prohibited under Federal Copyright Laws.

HAIR GRINDER PUMP-DRAINER ITCM10V137, LIBERTY MODEL
D3672LSG22-48 2 HP, 208/1/60V/1/5



FLOOR PLAN-POWER-HVAC

1/8"=1'-0"
COORDINATE HVAC CONTRACTOR FOR THE DDAS POWER REQUIREMENTS.

Jan 08 2023 1:00:00 PM n:\m\2021-1015-8623.dwg

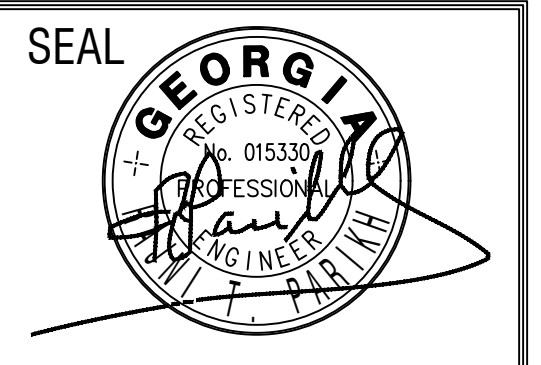
REVISIONS					
Number	Date	Remarks	Number	Date	Remarks
X	00-00-00	N/A			

CONSULTANTS

Date Plotted: Jan 08, 2023 - 7:59pm
file: 2021-01153-8623.DWG

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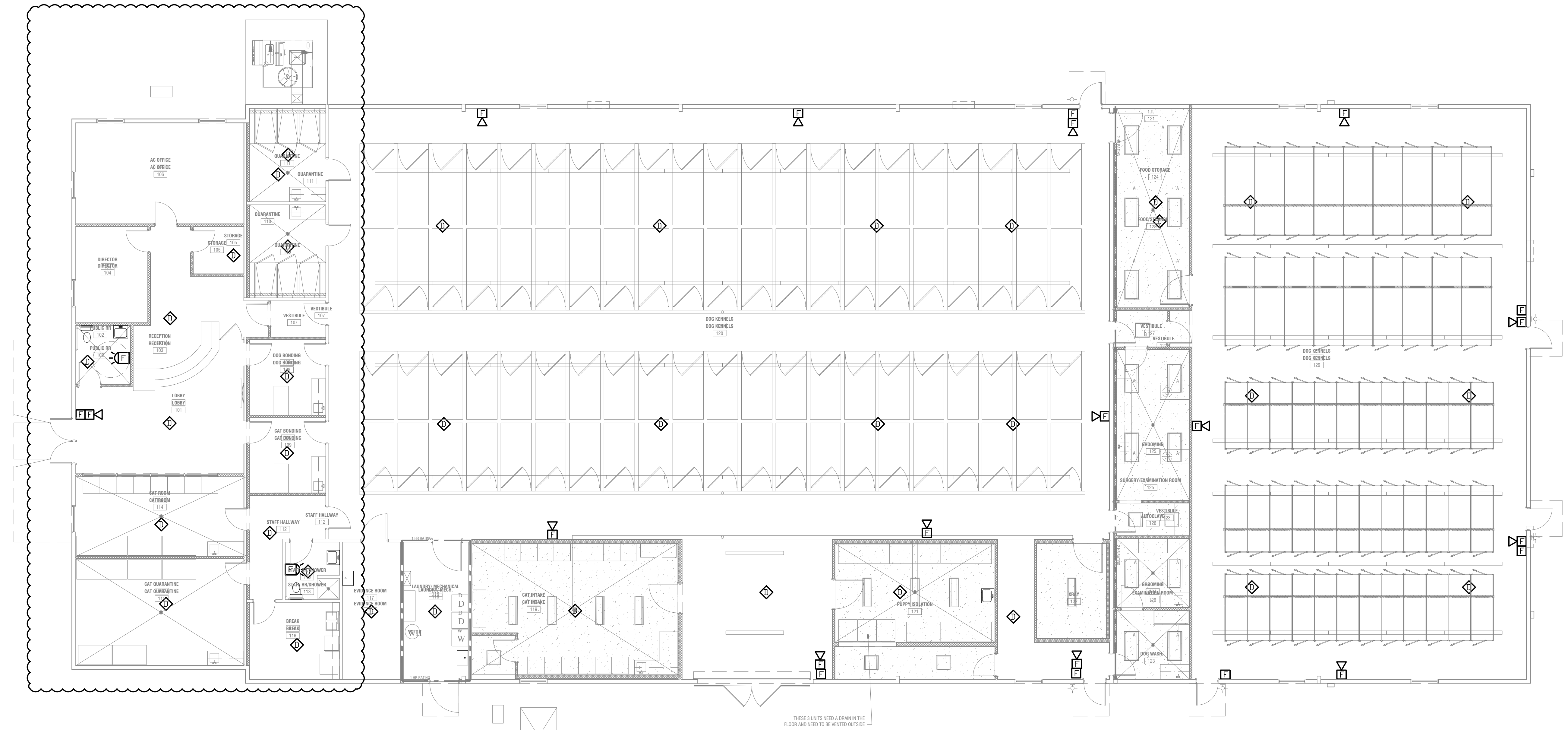
JACKSON COUNTY ANIMAL SHELTER
JEFFERSON, GEORGIA

SHEET TITLE:
FLOOR PLAN -POWER-HVAC
PRINTED: 06/08/23

NUMBER:
E-3

JACKSON CO. ANIMAL SHELTER PRINTED DATE: 06/08/23 This document is the property of Carter Watkins Associates. Reproduction of any part is prohibited under Federal Copyright Laws.

NOT IN CONTRACT



FLOOR PLAN-FIRE
1/8"=1'-0"

THESE 2 UNITS NEED A DRAIN IN THE FLOOR AND NEED TO BE VENTED OUTSIDE

Apr 21 2023 1:00:00 PM Jackson Animal Shelter 2021-001E-3123.dwg

REVISIONS					
Number	Date	Remarks	Number	Date	Remarks
X	00-00-00	N/A			

CONSULTANTS

Date Plotted: Apr 21, 2023 - 10:32am
 No: 2021-001E-3123.DWG

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JACKSON COUNTY ANIMAL SHELTER
JEFFERSON, GEORGIA

SHEET TITLE: FLOOR PLAN - FIRE	NUMBER: E-4
PRINTED: 04/21/23	

EXIST. PANEL "A" SCHEDULE-EATON PRL1X, CAT. EZB2048R

MAIN: 225A M.L.O.		VOLTAGE		208		3Ø		WIRES: 4			MOUNTING: SURFACE			AIC: 22,000								
CKT#	BRKR	DESCRIPTION	LTG	REC	MTR	A/C	HTG	KIT	MISC	A	B	C	LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	BRKR	CKT#
1	20/1	BRINKING FOUNTAIN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.1									RECP-CAT-114	20/1	2
5	20/1	RECP-LOBBY-101	0.0	0.8	0.0	0.0	0.0	0.0	0.0			1.2								RECP-CAT-114	20/1	4
7	20/1	F/A PANEL	0.0	0.0	0.0	0.0	0.0	0.0	1.6				1.2							CAT-QUARANTINE	20/1	6
9	20/1	RECP-RR-102	0.0	1.6	0.0	0.0	0.0	0.0	0.0	3.2										CAT-QUARANTINE	20/1	9
11	20/1	RECP-RR-103	0.0	0.8	0.0	0.0	0.0	0.0	0.0			2.0								CAT-QUARANTINE	20/1	10
13	20/1	RECP-RECEPTION-103	0.0	0.8	0.0	0.0	0.0	0.0	0.0			1.2								CAT-QUARANTINE	20/1	12
15	20/1	RECP-LOBBY-101	0.0	1.6	0.0	0.0	0.0	0.0	0.0			2.0								CAT-QUARANTINE	20/1	14
17	20/1	RECP-DIR-104	0.0	1.2	0.0	0.0	0.0	0.0	0.0			1.6								CAT-QUARANTINE	20/1	16
19	20/1	RECP-ACDFICE-106	0.0	1.6	0.0	0.0	0.0	0.0	0.0	1.9										CAT-QUARANTINE	20/1	18
21	20/1	RECP-ACDFICE-106	0.0	1.6	0.0	0.0	0.0	0.0	0.0			1.8								REFRIGERATOR-116	20/1	20
23	20/1	RECP-QUARANTINE	0.0	0.4	0.0	0.0	0.0	0.0	0.0			1.3								LIGHT-BDG 120	20/1	22
25	20/1	RECP-QUARANTINE	0.0	0.4	0.0	0.0	0.0	0.0	0.0	1.3			1.3							LIGHT-BDG 120	20/1	24
27	20/1	RECP-QUARANTINE	0.0	1.6	0.0	0.0	0.0	0.0	0.0			2.5								LIGHT-BDG 120	20/1	26
29	20/1	RECP-BDG BND-108	0.0	1.2	0.0	0.0	0.0	0.0	0.0			2.1								LIGHT-BDG 120	20/1	28
31	20/1	RECP-BDG BND-108	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.7										EXH FANS ET-5, 6	20/1	30
33	20/1	RECP-CAT BND-109	0.0	1.2	0.0	0.0	0.0	0.0	0.0			2.0								RECP-XRAY-122	20/1	32
35	20/1	RECP-CAT BND-109	0.0	0.4	0.0	0.0	0.0	0.0	0.0			0.8								RECP-XRAY-122	20/1	34
37	20/1	RECP-HALL-112	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.8										RECP-OUTSIDE	20/1	36
39	20/1	RECP-BREAK-116	0.0	0.8	0.0	0.0	0.0	0.0	0.0			0.8								SPARE	20/1	38
41	20/1	GARBAGE DISPOSER	0.0	17.6	0.0	0.0	0.0	0.0	2.9				0.8							PANEL GFCI	20/1	40
RECEPTACLES			25.2															CONNECTED LOAD			32.5	
MOTORS			0.0															DEMAND LOAD			25.8	
HEATING			0.0															CONNECTED AMPS			90.3	
KITCHEN			0.0															DEMAND AMPS			71.7	
MISC.			3.7																			
LIGHTING			3.6																			

EXIST. PANEL "B" SCHEDULE

MAIN: 200 MAIN BRKR		VOLTAGE		208		3Ø		WIRES: 4			MOUNTING: ?			AIC: 22,000								
CKT#	BRKR	DESCRIPTION	LTG	REC	MTR	A/C	HTG	KIT	MISC	A	B	C	LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	BRKR	CKT#
1	20/1	ROLL UP DOOR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0										EXHAUST FAN	20/3	2
3	20/1	DDG KENNEL	0.8	0.0	0.0	0.0	0.0	0.0	0.0			1.4										4
5	20/2	SPARE	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.6								EXHAUST FAN	20/3	6
7	20/1	SPARE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6												8
9	20/2	SPARE	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.6										10
11	20/2	SPARE	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.6										12
13	20/2	SPARE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4										EXIST. REF. RECP LIGHTS	20/1	14
15	20/1	SPARE	0.0	0.0	0.0	0.0	0.0	0.0	0.0			1.0										16
17	20/2	SPARE	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0										18
19	20/1	SPARE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3										RECP-WASHER	20/1	20
21	20/1	OUTSIDE GFCI	0.6	0.0	0.0	0.0	0.0	0.0	0.0			1.0								RECP-CAT ISOLATION	20/1	22
23	20/1	CAT-ISOLATION	0.0	0.4	0.0	0.0	0.0	0.0	0.0			0.8								RECP-CAT ISOLATION	20/1	24
25	20/1	CAT INTAKE	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.8										CAT INTAKE	20/1	26
27	30/2	EXIST. DRYER	0.0	0.0	0.0	0.0	0.0	0.0	2.7			3.1								CAT INTAKE	20/1	28
29	30/2	EXIST. DRYER	0.0	0.0	0.0	0.0	0.0	0.0	2.7			3.1								RECP-SERVICE	20/1	30
31	30/2	EXIST. DRYER	0.0	0.0	0.0	0.0	0.0	0.0	2.7	6.7										DVEN	50/2	32
33	60/2	SPARE	0.0	0.0	0.0	0.0	0.0	0.0	0.0			6.7										34
35	60/2	SPARE	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0								SPARE	60/2	36
37	30/2	WATER HEATER	0.0	0.0	0.0	0.0	0.0	0.0	1.7			1.8								LIGHT CONTRACTOR	15/ 1	40
41	30/2	WATER HEATER	0.0	0.0	0.0	0.0	0.0	0.0	1.7			2.1								RECP-CAT ISOLATION	20/1	42
RECEPTACLES			3.6															CONNECTED LOAD			32.6	
MOTORS			2.6															DEMAND LOAD			34.2	
HEATING			0.3															CONNECTED AMPS			90.6	
KITCHEN			0.0															DEMAND AMPS			95.1	
MISC.			22.6																			
LIGHTING			2.5																			

EXIST. PANEL "DP" SCHEDULE-EATON PRL4X, CAT. BX2473P

MAIN: 800A		VOLTAGE		208		3Ø		WIRES: 4			MOUNTING: ?			AIC: 22,000								
CKT#	BRKR	DESCRIPTION	LTG	REC	MTR	A/C	HTG	KIT	MISC	A	B	C	LTG	REC	MTR	A/C	HTG	KIT	MISC	DESCRIPTION	BRKR	CKT#
1	225/3	DDAS-1A *	0.0	0.0	0.0	17.8	0.0	0.0	0.0	37.1										DDAS-2 *	225/3	2
3	225/3	DDAS-1B *	0.0	0.0	0.0	17.8	0.0	0.0	0.0			37.1								DDAS-2 *	225/3	4
5	225/3	DDAS-1B *	0.0	0.0	0.0	17.8	0.0	0.0	0.0	23.0										DDAS-3 *	80/3	6
7	225/3	DDAS-1B *	0.0	0.0	0.0	17.8	0.0	0.0	0.0			23.0								DDAS-3 *	80/3	8
9	225/3	DDAS-1B *	0.0	0.0	0.0	17.8	0.0	0.0	0.0			23.0								DDAS-3 *	80/3	10
11	200/3	PANEL "A"	1.2	12.1	2.4	5.8	0.0	0.0	1.2	25.9										CU-S *	50/3	14
13	200/3	PANEL "A"	1.2	12.1	2.4	5.8	0.0	0.0	1.2			23.5										16
15	200/3	PANEL "A"	1.2	12.1	2.4	5.8	0.0	0.0	1.2			23.5										18
17	40/3	SPARE	0.0	0.0	0.0	2.3	0.0	0.0	0.0	3.3										BOOSTER PUMP	30/3	20
19	40/3	SPARE	0.0	0.0	0.0	2.3	0.0	0.0	0.0			3.3										22
21	200/3	PANEL "B" (ALT)	0.0	0.0	0.0	2.3	0.0	0.0	0.0			3.3										24
23	200/3	PANEL "B" (ALT)	0.0	0.0	0.0	2.3	0.0	0.0	0.0			3.3										26
25	200/3	PANEL "B" (ALT)	0.0	0.0	0.0	2.3	0.0	0.0	0.0			3.3										28
27	200/3	PANEL "B" (ALT)	0.0	0.0	0.0	2.3	0.0	0.0	0.0			3.3										30
29	200/3	PANEL "B" (ALT)	0.0	0.0	0.0	2.3	0.0	0.0	0.0			3.3										32
31	200/3	PANEL "B" (ALT)	0.0	0.0	0.0	2.3	0.0	0.0	0.0			3.3										34
33	200/3	PANEL "B" (ALT)	0.0	0.0	0.0	2.3	0.0	0.0	0.0			3.3	</									

ELECTRICAL NOTES

1. CONTRACTOR SHALL NOT RUN ANY WIRES WITHOUT VERIFYING WITH ELECTRICAL CHARACTERISTICS OF EQUIPMENT. DESIGN DOCUMENTS MAY DIFFER FROM ACTUAL ELECTRICAL CHARACTERISTICS OF EQUIPMENT. ENGINEER DOES NOT HAVE ACTUAL EQUIPMENT DATA DURING DESIGN PROCESS. CONTRACTOR SHALL BRING TO ATTENTION OF ENGINEER FOR ANY DISCREPANCIES. CONTRACTOR MUST SUBMIT EQUIPMENT DATA WHICH REQUIRED ELECTRICAL POWER TO ENGINEER. APPROVED EQUIPMENT BY ENGINEER OR ARCHITECT DOES NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY OF VERIFICATION OF ELECTRICAL CHARACTERISTICS OF EQUIPMENT AND MODIFY CIRCUITS AS NECESSARY.
2. CONTRACTOR SHALL VERIFY UTILITY COMPANY'S POWER SUPPLY (VOLTAGES AND PHASE) BEFORE PURCHASING ANY EQUIPMENT, LIGHT FIXTURES AND NOTIFY ENGINEER FOR ANY DISCREPANCIES. CONTRACTOR SHALL SUBMIT ALL EQUIPMENT DATA AND LIGHT FIXTURES FOR APPROVAL.
3. RUN 4 (TWO LIVE WIRES, ONE NEUTRAL, ONE GROUND) WIRES FOR DRYER. THIS NOTE SUPERCEDES NUMBER OF WIRES ON DRAWINGS.
4. ANY EQUIPMENT REQUIRES DUAL VOLTAGES (e.g. 240/120V FOR OVEN AND DRYER OR 277/120 VOLTS WITH CONTROL WIRES), CONTRACTOR SHALL RUN NEUTRAL WIRE
5. PROVIDE GROUND FAULT OUTLET WITHIN 25 FEET OF ALL AIR CONDITIONING EQUIPMENT AS PER NEC CODE 210-8(B) & 210-63. CONNECT TO NEAREST RECEPTACLE CIRCUIT UNLESS OTHERWISE INDICATED.
6. PROVIDE ELECTRICAL CONNECTIONS TO ALL ITEMS SHOWN AS PART OF THE GENERAL CONTRACT WHICH REQUIRES ELECTRICITY.
7. COORDINATE ALL CONNECTIONS WITH EQUIPMENT SUPPLIER FOR EXACT LOCATION AND REQUIREMENTS.
8. PROVIDE CONNECTION TO ALL APPLIANCES, MECHANICAL AND PLUMBING EQUIPMENT INCLUDING TOILET EXHAUST FANS AND UNDER CABINET LIGHTS, SIGNS, ETC., CONTRACTOR MUST VERIFY WITH ARCHITECTURAL, INTERIOR, CIVIL, MECHANICAL, AND PLUMBING CONTRACTORS THE QUANTITY OF EQUIPMENT CONNECTIONS BEFORE BIDDING AND FINAL CONTRACT. NEGLIGENCE OF VERIFYING QUANTITY WILL NOT BE COMPENSATED.
9. PROVIDE MINIMUM OF 1/0 COPPER GROUND CONDUCTOR FROM TELEPHONE BACKBOARD TO BUILDING GROUNDING SYSTEM. CONTRACTOR SHALL PROVIDE 8'-0" x 4'-0" x 3/4" THICK FIRE RETARDANT PLYWOOD TELEPHONE BACKBOARD AND 120 VOLT CONVENIENCE DUPLEX OUTLET NEXT TO TELEPHONE BACKBOARD. CONTRACTOR SHALL RUN TWO 4" PVC CONDUIT FROM TELEPHONE BOARD TO THE PUBLIC RIGHT OF WAY OR A POLE. CONTRACTOR SHALL COORDINATE WITH TELEPHONE COMPANY FOR THE THEIR REQUIREMENTS BEFORE FINAL CONTRACT. CONTRACTOR SHALL INFORM ARCHITECT FOR ANY DISCREPANCIES.
10. COORDINATE ALL ELECTRICAL AND COMMUNICATION OUTLETS WITH MILLWORK. IF ACCESS GROMMETS ARE NOT PROVIDED IN COUNTER TOP, INSTALL OUTLETS ABOVE COUNTER.
11. EXPOSED WIRING SHALL BE IN EMT OR RIGID CONDUIT.
12. SEE MECHANICAL DRAWINGS FOR LOCATION OF HEATING AND A/C EQUIPMENT.
13. CONTRACTOR SHALL VERIFY THE TYPE CEILING WITH ARCHITECT PLAN AND SHALL PROVIDE THE TYPE OF LIGHT FIXTURES ACCORDING TO THE ARCHITECT CEILING PLAN.
14. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF A COMPLETE CABLE TELEVISION SYSTEM WITH OWNER AND LOCAL CABLE TV COMPANY. INSTALL MINIMUM 4" DIA. PVC CONDUIT UNDERGROUND AND UNDER SLAB, FROM BUILDING EXTERIOR TO CABLE TV PANEL IN UTILITY ROOM. CONDUIT SHALL BE INSTALLED WITH LONG RADIUS SWEEPS AND BE STUBBED UP 6" A.F.F. NOTE - MINIMUM CONDUIT SIZE FOR CABLE TV SYSTEM SHALL BE 1" DIA.
15. ALL RECEPTACLES AT GARAGE, VANITY, BATH, KITCHEN COUNTER AREAS, AND WET LOCATION SHALL BE GROUND FAULT INTERRUPTER TYPE.
16. VERIFY EXACT LOCATIONS AND LOADS OF SERVICES TO EQUIPMENT TO BE SUPPLIED BY OTHERS, SUCH AS BUILDING SIGNAGE, LAUNDRY EQUIPMENT, VENDING MACHINES, ETC., AS WELL AS ALL MECHANICAL EQUIPMENT.
17. RECESSED LIGHT FIXTURES IN RATED CEILINGS MUST BE PROTECTED OR LISTED FOR USE IN THE RATED ASSEMBLY.
18. ELECTRICAL OUTLETS BOXES ON OPPOSITE SIDES OF RATED WALLS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF 24" MINIMUM.
19. MAINTAIN CLEARANCES IN FRONT OF ELECTRICAL EQUIPMENT (TRANSFORMER, PANELS, ETC.) AS REQUIRED BY MANUFACTURER AND NEC CODE 110-26(A), (SEE TABLE 26(A)(1)), (3'-0" TO 4'-0"). MINIMUM WIDTH 30" OR SIZE OF EQUIPMENT.
20. CONTRACTOR SHALL VERIFY ELECTRICAL CHARACTERISTICS BEFORE RUNNING CONDUIT AND WIRES.
21. SEE ARCHITECTURAL DRAWINGS FOR UNDER CABINET LIGHTING AND PROVIDE NECESSARY CIRCUITS.
22. CONTRACTOR SHALL VERIFY WITH UTILITY COMPANY VOLTAGES AND UTILITY COMPANY'S SCOPE OR WORK.
23. FIRE ALARM CONTRACTOR SHALL PROVIDE, INSTALL, AND WIRE DUCT SMOKE DETECTORS. COORDINATE WITH MECHANICAL CONTRACTOR FOR LOCATION. SEE MECHANICAL DRAWINGS AND NOTES.
24. CONTRACTOR SHALL PROVIDE WIRES AND CONDUIT FROM TRANSFORMER TO ELECTRICAL ROOM. SEE SITE PLAN FOR EXACT LOCATION OF TRANSFORMER AND ELECTRICAL POWER RISER FOR WIRES AND CONDUITS SIZES.
25. CONTRACTOR SHALL PAY APPLICATION, COORDINATION, AND FEES FOR ELECTRICAL TRANSFORMER.
26. COORDINATE WITH THE ELECTRICAL UTILITY AND VERIFY LOCATION AND ORIENTATION OF SERVICE EQUIPMENT AND ASSOCIATED METERING EQUIPMENT.
27. PROVIDE AND INSTALL ALL MATERIALS DESIGNATED BY THE ELECTRICAL UTILITY TO BE FURNISHED BY "CUSTOMER". THIS MAY INCLUDE BUT NOT LIMITED TO, COMPRESSION LUGS FOR TRANSFORMER SECONDARY CONNECTION, CONCRETE PAD FOR SERRIA TRANSFORMER, GROUNDING MATERIAL, METER BASE AND EMPTY CONDUITS FOR PRIMARY LINES.
28. CONTRACTOR SHALL PROVIDE COMPLETE TELEPHONE WIRING FROM TELEPHONE OUTLETS TO TELEPHONE COMPANY'S MAIN TELEPHONE WIRES. CONTRACTOR SHALL COORDINATE THE SCOPE OF WORK WITH TELEPHONE COMPANY FOR COMPLETE OPERATION OF TELEPHONE SYSTEM.
29. THE BRANCH CIRCUIT FEEDING THE EMERGENCY LIGHT AND EXIT LIGHT (UNIT EQUIPMENT) SHALL BE THE SAME BRANCH CIRCUIT AS THAT SERVING THE NORMAL LIGHTING IN THE AREA AND CONNECTED AHEAD OF ANY LOCAL SWITCHES AS PER NEC CODE 700-12(F).
 - a. EMERGENCY AND EXIT LIGHTS CONNECTED TO CIRCUITS CONTROLLED BY TIME CLOCK, OR PHOTOCELL SHALL HAVE BYPASS MEANS TO BE CONTINUOUSLY ENERGIZED WHEN CIRCUIT IS ACTIVE.
 - b. CIRCUIT WITH EMERGENCY AND EXIT LIGHTS WITH NO SWITCH, TIME CLOCK, OR PHOTOCELL SHALL BE PROGRAMMED TO OPERATE CONTINUOUSLY.
30. PROVIDE ON EVERY CORRIDOR A TWO HEAD BATTERY EMERGENCY LIGHT WITHIN THIRTY FEET OF THE END OF CORRIDOR AND MAXIMUM 60'-0 ON CENTER THROUGH THE CORRIDOR AS PER NFPA 101-7.9.1.2
31. PROVIDE TWO HEAD WALL MOUNTED BATTERY EMERGENCY LIGHT AT EACH EXIT WALKWAYS AS PER NFPA-101-7.9.1.2
32. NO PIPING, DUCT, OR EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE INSTALLED ABOVE THE ELECTRICAL PANEL BOARD, MOTOR CONTROL CENTER, OR SWITCHBOARD.
33. PROTECT PANELBOARDS, TRANSFORMERS, ETC. AS PER NEC CODE 110-27(B).
34. CONTRACTOR SHALL SUBMIT GROUND FAULT PERFORMANCE TESTS TO BUILDING INSPECTOR AND ENGINEER.
35. PROVIDE APPLICABLE PENETRATION FIRE-STOP SYSTEM AS PER SBC SECTION 705.4.

36. COMBINATION HORN STROBE SHALL BE INSTALLED WITHIN 15'-0" OF THE END OF EACH CORRIDOR AND MAXIMUM OF 50'-0" ON CENTER THROUGHOUT THE CORRIDOR AS PER NATIONAL FIRE ALARM CODE SECTION 6-4.4.2.2. (MIN. 90" ABOVE FINISHED FLOOR AND BELOW THE FINISHED CEILINGS OF NOT LESS THAN 6 INCH.
37. INSTALL MANUAL PULL STATION AT EVERY FIRST FLOOR EXIT. ADDITIONAL MANUAL PULL STATION SHALL BE PROVIDED SO THAT TRAVEL DISTANCE TO THE NEAREST MANUAL PULL STATION SHALL NOT EXCEED OF 200 FT MEASURED HORIZONTALLY ON THE SAME FLOOR. MOUNTING HEIGHT SHALL BE NOT LESS THAN 42" AND NOT MORE THAN 54" ABOVE FINISHED FLOOR. SEE NATIONAL FIRE ALARM CODE SECTION 5-8.1.2.
38. PROVIDE FIRE ALARM STROBE LIGHT IN EVERY PUBLIC REST ROOM AND OTHER GENERAL USAGE AREAS (E.G. CLASSROOMS, MEETING ROOMS), HALLWAYS, LOBBIES, AND ANY OTHER AREAS OF COMMON USE AS PER CA. ACCESSIBILITY CODE SECTION 120-3-20-39
39. INSTALL SMOKE DETECTORS IN ALL COMMON AREAS SUCH AS LOBBIES, STORAGE ROOMS, EQUIPMENT ROOMS, ATTICS, SPACE ABOVE THE CEILINGS, CLOSETS, AND OTHER TENANTLESS SPACES. SEE NATIONAL FIRE ALARM CODE SECTION 5-1.4.2
40. CEILING SMOKE DETECTORS SHALL BE INSTALLED IN ALL CORRIDORS. SMOKE DETECTORS SHALL BE INSTALLED WITHIN 15'-0" OF THE END OF EACH CORRIDOR AND MAXIMUM 30'-0" ON CENTER THROUGHOUT THE CORRIDOR.
41. ALL OUTLETS WITHIN SIX FEET OF ANY SINK SHALL BE GROUND FAULT PROTECTION TYPE.
42. PROVIDE POWER TO GARBAGE DISPOSAL AND DISHWASHER. SEE PLUMBING AND ARCHITECTURAL PLANS.
43. PROVIDE FIRE SAFE BLANKET WRAP AROUND EACH OUTLET BOX IN FIRE RATED ASSEMBLY TO MAINTAIN ASSEMBLY FIRE RATING.
44. A WRITTEN RECORD OF THE GROUND FAULT PERFORMANCE TEST RESULTS SHALL BE MADE AVAILABLE TO THE COUNTY INSPECTOR OR PLAN REVIEWER.
56. PROVIDE GROUND FAULT PROTECTION TYPE (GFI) RECEPTACLES AT THE FOLLOWING LOCATION:
 - a. BATHROOM
 - b. WITHIN SIX FEET OF ANY SINK
 - c. GARAGE (READILY ACCESSIBLE)
 - d. OUTSIDE WITH WEATHERPROOF (READILY ACCESSIBLE).
 - e. WET LOCATION.
 - f. AS PER NEC 210-8.
45. BRANCH CIRCUIT CONDUCTORS:
 - WIRES RUN OVER 100 FEET LONG SHALL BE SIZED NEXT SIZE OF WIRE SCHEDULE. THIS APPLIES TO THE ENTIRE CIRCUIT OR CIRCUITS.
 - ELECTRIC ROOM WITH 800AMP AND GREATER SHALL HAVE PANIC DOOR HARDWARE.
 - EMERGENCY POWER EQUIPMENT SHALL BE LOCATED IN A SEPARATE TWO HOUR RATED ROOM AS PER NFPA-110-7.2.1.1
 - 48. ALL DISCONNECTING SWITCHES SHALL BE IDENTIFIED AS PER NEC CODE SECTION 110.22.
 - 49. ELECTRIC ROOM SHALL HAVE MINIMUM 30 FC AND EMERGENCY LIGHT SHALL 1 FOOTCANDLE LIGHT LEVEL.
 - 50. LAY-IN LIGHT FIXTURES SHALL BE SUPPORTED WITH FOUR WIRE HANGERS INDEPENDENT OF THE CEILING GRID SYSTEM AND SECURED TO THE GRID SYSTEM.
 - 51. CONTRACTOR SHALL VERIFY THE TYPE OF THE LIGHT FIXTURES AGAINST THE TYPE CEILING BEFORE BIDDING THE PROJECT.
 - 52. ALL LIGHT FIXTURES SHALL BE AIR-LOCK TYPE. ALL LIGHT FIXTURES SHALL BE IC RATED.
 - 53. CONTRACTOR SHALL RELOCATE EXISTING UNDERGROUND ELECTRICAL SERVICE CABLE, TRANSFORMER, TELEPHONE CABLES, AND OTHER CONDUITS WHICH ARE GOING TO BE UNDER THE NEW SLAB.
 - 54. DISCONNECT SWITCH SHALL BE INSTALLED AS PER NEC 404-8(A). ALL SWITCHES AND BREAKERS USED AS SWITCHES SHALL BE LOCATED SO THAT THEY MAY BE OPERATED FROM READILY ACCESSIBLE PLACE. THEY SHALL BE INSTALLED SUCH THAT THE CENTER OF THE GRIP OF THE OPERATING HANDLE OF THE SWITCH OR CIRCUIT BREAKER, WHEN IN THE HIGHEST POSITION, IS NOT MORE THAN 6'-7" ABOVE THE FLOOR OR WORKING PLATFORM.
 - 55. AUTOMATIC TRANSFER SWITCH AND EMERGENCY PANELS SHALL BE LOCATED IN ONE HOUR RATED ROOM OR FULLY FIRE SPRINKLER SYSTEM BUILDING AS PER NEC 700.10(D-2)
 - 56. EMERGENCY GENERATOR REQUIREMENTS:
 - a. WEATHER PROOF ENCLOSURE.
 - b. EPA CERTIFICATION. (Only operates when the utility has failed)
 - c. no Load certification
 - d. LOAD BANKING IS REQUIRED ON STARTING.
 - e. MEET NFPA-100 LIFE SAFETY CODE
 - f. NEMA 3R ENCLOSURE
 - g. 4-POLES SWITCH
 - p. DBA RATING AT 7 METERS
 - l. Sound attenuation housing
 - j. Block heater and battery charger
 - k. Remote annunciator and estop.

- OCCUPANCY SENSOR NOTES:**
- A. ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
 - B. CEILING MOUNTED SENSORS LOCATED OVER DOORWAYS SHOULD PLACED ONE FOOT INSIDE THRESHOLD.
 - C. ULTRASONIC CEILING MOUNTED SENSORS SHOULD BE LOCATED A MINIMUM OF SIX FEET FROM HVAC SUPPLY /RETURN VENTS.
 - D. THOUGH MOUNTED, PENDANT MOUNTED, AND PENDANT MOUNTED INDIRECT LIGHTING SOURCES AFFECT THE OPERATION OF LOCALLY MOUNTED SENSORS. CONTRACTOR IS RESPONSIBLE FOR ADJUSTING SENSOR LOCATIONS TO ALLOW FOR PROPER OPERATION.
 - E. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTING FOR NON-ADAPTIVE PRODUCTS, FOLLOWING THE MANUFACTURER'S RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
 - F. CONTRACTOR IS RESPONSIBLE FOR ORDERING THE APPROPRIATE SENSOR.
 - G. CONTRACTOR IS RESPONSIBLE FOR RELATED CIRCUIT CONTROL EQUIPMENT. THIS INCLUDES, NOT LIMITED TO, LOGIC CONTROL, SWITCHING/CONTROL STATIONS, ATC, FACILITY-WIDE CONTROL INTEGRATION, EVENT SCHEDULING, BAS,BMS INTEGRATION.
 - H. PHOTOCELLS MUST BE PLACED WITHIN DAYLIGHTING ZONE AS DEFINED BY LOCAL CODE.

ELECTRICAL SPECIFICATIONS

- I. GENERAL
 - A. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND NECESSARY ITEMS AND OBTAIN AND PAY FOR ALL FEES AND PERMITS REQUIRED TO INSTALL A COMPLETE ELECTRICAL SYSTEM.
 - B. IT IS THE INTENT OF THESE PLANS TO PROVIDE A COMPLETE ELECTRICAL SYSTEM, REGARDLESS OF WHETHER EACH INDIVIDUAL COMPONENT IS MENTIONED OR NOT.
 - C. THE WORK SHALL COMPLY WITH THE STANDARDS OF THE FOLLOWING CODES AND ORDINANCES:
 1. NFPA NO. 70, "NATIONAL ELECTRICAL CODE," LATEST ED.
 2. NECA "STANDARD OF INSTALLATION"
 3. THE ELECTRICAL UTILITY COMPANY SERVICE STANDARDS
 4. UNDERWRITER'S LABORATORY STANDARDS
 5. OTHER LOCAL CODES, ORDINANCES AND LAWS APPLICABLE TO THE LOCATION OF THIS PROJECT.
 - D. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH TELEPHONE SYSTEM, CABLE TV, AND SECURITY SYSTEM INSTALLATIONS.
- II. MATERIALS AND WORKMANSHIP:
 - A. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR TIMELY PLACEMENT OF ALL CONDUITS, OUTLET BOXES, CABINETS, AND OTHER WIRING DEVICES IN FLOORS, WALLS, CEILINGS, ETC. AS THE CONSTRUCTION PROGRESSES.
 - B. OUTLET BOXES SHALL BE LOCATED AS FOLLOWS:
 1. WALL SWITCHES - 4'-0" ABOVE FINISH FLOOR.
 2. CONVENIENCE OUTLETS - 16" A.F.F.
 3. EQUIPMENT OUTLETS AS REQUIRED (VERIFY)
 - C. WIRING SYSTEM SHALL BE AS FOLLOWS:
 1. RIGID CONDUIT-GALVANIZED STEEL OR RIGID ALUMINUM AS PERMITTED BY N. E. C.
 2. EMT- ELECTRIC METALLIC TUBING CONDUIT MAY BE USED ONLY WHERE IT IS NOT SUBJECT TO MECHANICAL DAMAGE AND WHERE PERMITTED BY THE N. E. C. AND LOCAL CODES; EMT CONDUIT SHALL NOT BE USED OUTSIDE THE BUILDING.
 3. FLEXIBLE METAL TUBING - TO BE USED AT CONNECTIONS WHERE REQUIRED. CONNECTIONS SHALL BE MADE WITH GROUND. ALL SUCH CONNECTIONS SHALL BE LIQUID TIGHT.
 4. UNDERGROUND CIRCUIT SHALL BE SCHEDULE 40 PVC.
 - D. CONDUCTORS SHALL BE COPPER, TYPE THW/THHN.
 - E. CONVENIENCE RECEPTACLES SHALL BE 15 (20AMP), 125 VOLT NEMA 5-15(20R).
 - F. WALL SWITCHES SHALL BE 20 AMP, 120/277 V. AC, SINGLE POLE DR AS INDICATED ON THE DRAWING.
 - G. PANELBOARDS SHALL BE BY SQUARE D, SIEMENS, OR GENERAL ELECTRIC.
 - H. GROUNDING OF ELECTRICAL SYSTEMS SHALL BE IN ACCORDANCE WITH THE NEC AND LOCAL REQUIREMENTS.
 - I. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ITEMS SHOWN AS PART OF THE GENERAL CONTRACT WHICH REQUIRE ELECTRICITY-INCLUDING ALL SIGNAGE, BUILDING LIGHTING, AND CONTROL WIRING.
 - J. FUSES SHALL BE DUEL-ELEMENT CURRENT LIMITING FUSES IN ALL DISCONNECT SWITCHES OR OTHER FUSIBLE DEVICES. FURNISH A SPARE FUSE OF EACH TYPE USED ON THE JOB.
 - K. ELECTRICAL CONTRACTOR SHALL INSTALL AND CONNECT MOTOR STARTERS, RELAYS, SWITCHES, AND RELATED ITEMS WHICH ARE SUPPLIED BY OTHERS.
 - L. ALL MATERIAL SHALL BE NEW AND UL APPROVED AND LABELED.
 - M. ALL ELECTRICAL EQUIPMENT AND SYSTEMS SHALL BE TESTED AND ADJUSTED FOR PROPER OPERATION. COMPLETE WIRING SYSTEM SHALL BE FREE OF SHORT CIRCUITS.
 - N. CONTRACTOR SHALL MAKE COMPLETE CONNECTIONS TO ALL EQUIPMENT. COORDINATE WITH EQUIPMENT SUPPLIER FOR EXACT LOCATIONS AND REQUIREMENTS.
 - O. RUN 3/4" FIBR TV, TELEPHONE AND DATA OUTLETS TO COMPUTER/IT ROOM.
 - P. RUN 2-2PVC CONDUITS W/PULL WIRE TO PROPERTY LINE FOR TELEPHONE. COORDINATE W/TELEPHONE UTILITY.
 - Q. RUN 1 3/4" PVC PULL WIRE TO PROPERTY LINE FOR TV CABLE. COORDINATE W/CABLE SUPPLIER.
 - R. CONTRACTOR MUST SUBMIT EQUIPMENT DATA FOR APPROVAL TO ENGINEER.
 - S. DATA CABLE SHALL BE CAT-6.

Apr 21 2023 1:00:00 PM Jackson Animal Shelter.dwg

REVISIONS					
Number	Date	Remarks	Number	Date	Remarks
X	00-00-00	N/A			

CONSULTANTS

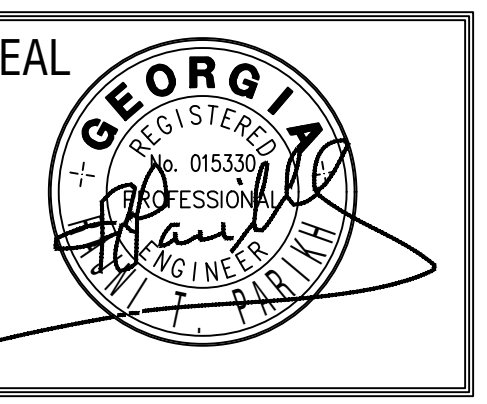
Date Plotted: Apr 21, 2023 9:58am
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JACKSON COUNTY ANIMAL SHELTER
JEFFERSON, GEORGIA

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