



**COBB COUNTY  
PURCHASING DEPARTMENT**

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122 Waddell Street NE  
Marietta, Georgia 30060  
phone: 770-528-8400 • fax: 770-528-8428

**ADDENDUM NO. 1**

**Sealed Bid # 24-6827  
Invitation to Bid  
Cobb County PARKS New Maintenance Building  
Cobb County PARKS Department**

**Date: April 16, 2024**

Page 1 of 2

The following addendum hereby amends and/or modifies the bid documents and specifications as originally issued for this project. All bidders are subject to the provisions of this Addendum.

**This Addendum consists of:**

- **Questions Submitted in Writing**
- **Attachment- Corrected Drawings**

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Receipt of addendum **MUST** be acknowledged in the submitted bid. It is the Bidder's ultimate responsibility to ensure that they have all applicable addenda prior to bid submittal.

**This acknowledgment form must be signed, dated, and included with your submitted bid.**

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Print Name

**All bids must be received before 12:00 (noon) by the Bid Opening date. Bids shall be delivered to Cobb County Purchasing Department, 122 Waddell Street, Marietta, GA 30060.**

**ADDENDUM NO. 1**

**Sealed Bid # 24-6827**

**Invitation to Bid**

**Cobb County PARKS New Maintenance Building**

**Cobb County PARKS Department**

**Date: April 16, 2024**

**A. Questions Submitted in Writing:**

**Question:** Is there a final set of plans for the project ‘Cobb County New Maintenance Building’? We received this set, but it is marked up and is missing pages.

**Answer:** See attached Corrected drawings to be used for bidding.

# COBB COUNTY PARKS NEW MAINTENANCE BUILDING 1792 COUNTY SERVICES PARKWAY, BUILDING 800 MARIETTA, GEORGIA 30008

## PROJECT DATA:

**A. PROJECT NAME:**  
Cobb County Parks  
Maintenance Building

**B. DEVELOPER:**  
Cobb County Board of Commissioners  
100 Cherokee Street  
Marietta, GA 30090  
(770) 528-3300

**C. ARCHITECT:**  
Foreman Seeley Fountain Architecture  
3091 Governors Lake Drive, Suite 150  
Peachtree Corners, GA 30071  
Jerry Fountain, Principal  
(770) 729-8433 Fax (770) 729-8466  
Georgia Registration #7415

### D. ENGINEERS:

**CIVIL**  
Brewer Engineering  
400 Galleria Parkway, Suite 1500  
Atlanta, GA 30339  
Jeff Brewer  
(770) 794-7012

**ELECTRICAL**  
Bolden-Williams & Associates, Inc.  
3066 Highway 29 South  
Lawrenceville, Ga 30044  
Jeff Williams  
(770) 279-0413 Fax (770) 925-1848

**E. DISTRICT & LAND LOT:**  
Land Lot 63 and 86  
19th District - 2nd Section

**F. ZONING:**  
AG / Agricultural Use District

**G. SITE USAGE:**  
Parks & Recreation Maintenance

**H. OCCUPANCY:**  
Industrial

**I. CLASSIFICATION:**  
Industrial

**J. TYPE OF CONSTRUCTION:**  
Type IIB (un-protected, un-sprinklered)

**K. BUILDING SQUARE FEET:**  
6000 sf

**L. SHELL BUILDING:**  
N/A

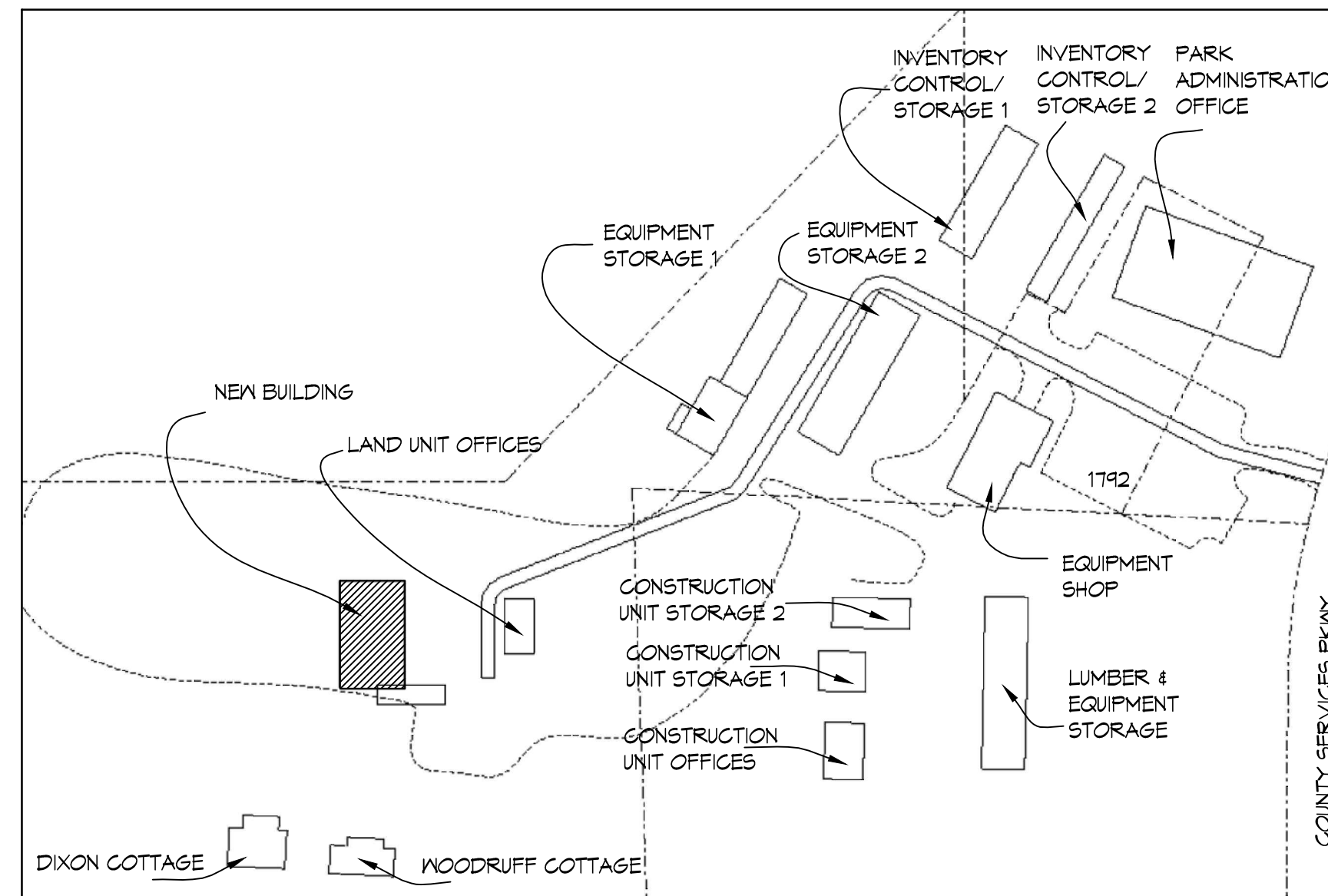
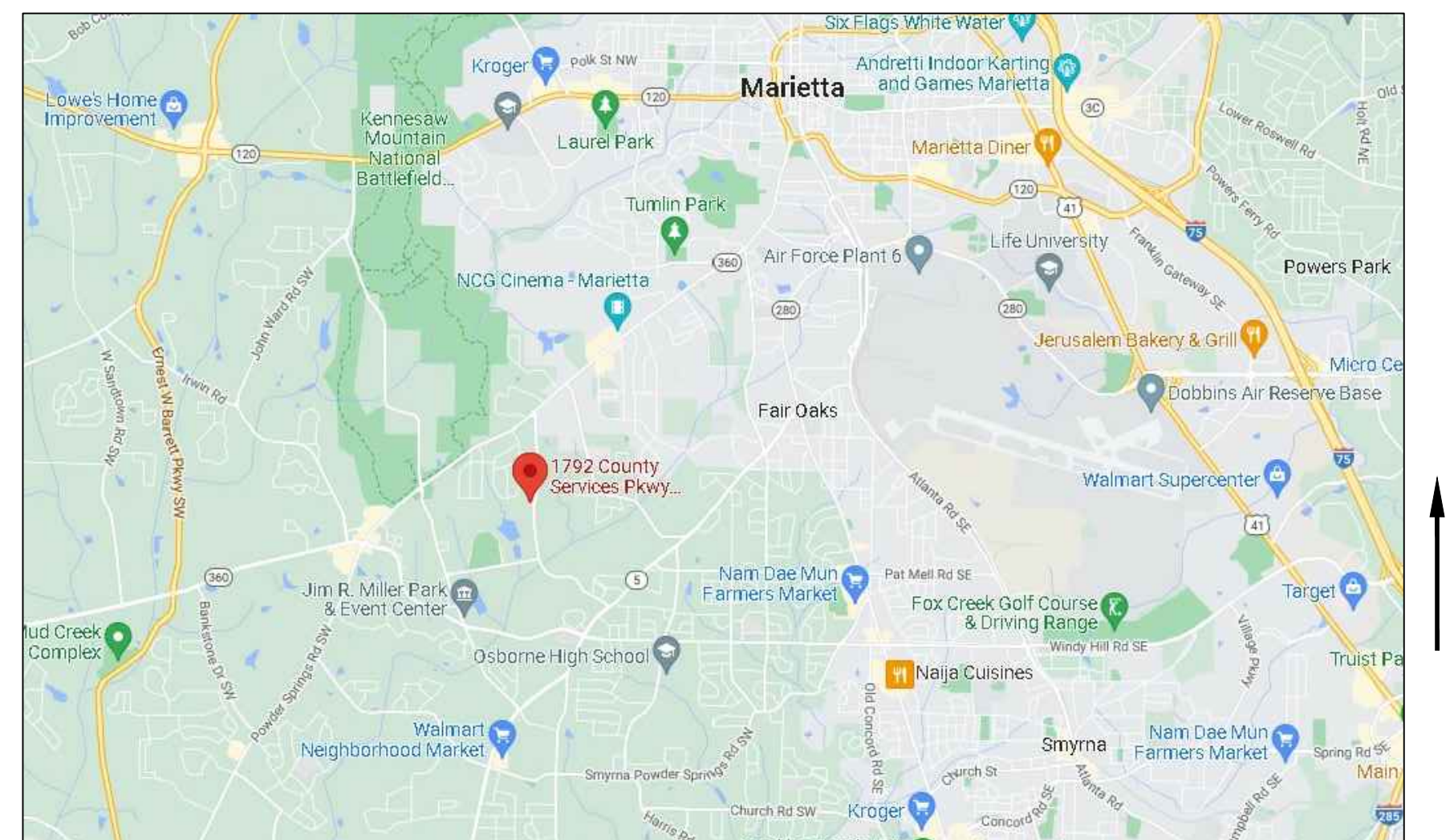
**M. OCCUPANT LOAD:**  
66

**N. THE FACILITY DESCRIBED IN THESE PLANS SHALL BE CONSTRUCTED  
IN COMPLIANCE WITH ALL LOCAL & FEDERAL CODES.**

ALL BUILDINGS DESCRIBED IN THESE PLANS SHALL BE CONSTRUCTED IN COMPLIANCE WITH  
COBB COUNTY CONSTRUCTION CODE REQUIREMENTS AS ADOPTED AND INCLUDES  
REVISIONS, AMENDMENTS AND APPENDICES TO THE FOLLOWING LISTED CODES:

International Building Code, 2018 Edition, with Georgia Amendments (2020)  
International Fire Code, 2018 Edition, with current Georgia Amendments  
International Plumbing Code, 2018 Edition, with Georgia Amendments (2020)  
International Mechanical Code, 2018 Edition, with Georgia Amendments (2020)  
International Fuel Gas Code, 2018 Edition, with Georgia Amendments (2020)  
National Electrical Code, 2020 Edition with Georgia amendments (2021)  
International Fire Code 2018 (Amended by 120-3-3)  
International Energy Conservation Code, 2015 Edition, with Georgia Supplements and  
Amendments (2020)  
NFPA 101 Life Safety Code 2018 Edition. (Amended by 120-3-3)  
NFPA 72 - 2019 / NFPA 96 - 2017  
2020 GA Amendments 120-3-3, State Minimum Fire Safety Standards  
ADA Standards for Accessible Design 2010  
2020 OCGA 120-3-3 Georgia Minimum Fire Safety Standards

## LOCATION MAP



## INDEX TO DRAWINGS:

A-0.0 COVER SHEET

### CIVIL

C-0.0 COVER SHEET  
C-0.1 PROJECT NOTES  
C-1.0 OVERALL SITE PLAN  
C-2.0 DEMOLITION PLAN  
C-3.0 SITE PLAN  
C-4.0 GRADING PLAN  
C-5.0 UTILITY PLAN  
C-6.2 INITIAL PHASE EROSION CONTROL PLAN  
C-6.3 INTERMEDIATE PHASE EROSION CONTROL PLAN  
C-6.4 FINAL PHASE EROSION CONTROL PLAN  
C-8.0 DETAILS  
C-8.1 DETAILS  
T-1.0 TREE PROTECTION & REPLACEMENT PLAN

### ARCHITECTURAL

A-2.1 MAIN FLOOR & LIFE SAFETY PLANS  
A-2.2 FOUNDATION PLAN  
A-3.1 REFLECTED CEILING PLAN AND ROOF PLAN  
A-5.1 ELEVATIONS  
A-6.1 BUILDING SECTIONS  
A-8.1 DOOR & FINISH SCHEDULES & DETAILS

### MECHANICAL

M1.0 HVAC FLOOR PLAN  
M2.0 HVAC SCHEDULES & DETAILS  
M2.1 HVAC DETAILS  
M3.0 COMCHECK  
M3.1 COMCHECK

### PLUMBING

P1.0 PLUMBING FLOOR PLAN  
P2.0 PLUMBING SCHEDULES AND DETAILS

### ELECTRICAL

E-1.1 ELECTRICAL LEGEND, NOTES, DETAILS, AND SCHEDULES  
E-2.1 ELECTRICAL FLOOR PLAN LIGHTING  
E-3.1 ELECTRICAL FLOOR PLAN POWER  
E-4.1 ELECTRICAL SPECIFICATIONS

FOREMAN | SEELEY | FOUNTAIN  
architecture

DATE: 03/11/2024  
JOB NUMBER: 2209  
SET NUMBER:

FOR PRICING

## General Notes:

- DEVELOPER - COBB COUNTY. THE SITE CONTAINS 40 ACRES. LAND DISTURBANCE ACREAGE = 0.30 ACRES.
- THE LIMITED TOPOGRAPHIC SURVEY FOR THE SITE WAS PERFORMED BY
- CONTRACTOR SHALL CONTACT THE UTILITY LOCATOR AS REQUIRED BY GEORGIA LAW AND HAVE ALL UTILITIES MARKED PRIOR TO ANY CONSTRUCTION ACTIVITY. CONTRACTOR SHALL ALSO PROVIDE A PRIVATE UTILITY LOCATOR TO LOCATE ALL UTILITIES THAT ARE NOT LOCATED BY THE UTILITY LOCATOR CENTER.
- CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND ENGINEER OF RECORD OF ANY DISCREPANCIES, CONFLICTS, OR ERRORS THAT THEY MAY DISCOVER IN THE CONSTRUCTION DOCUMENTS.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADES, GUARDS, LIGHTS, AND OTHER INSTALLATIONS REQUIRED TO PROTECT PERSONS AND PROPERTY DURING THE ENTIRE CONSTRUCTION PROCESS. CONTRACTOR IS RESPONSIBLE FOR PROVIDE ALL REQUIRED TEMPORARY CONSTRUCTION FENCING AND GATES NECESSARY TO SECURE THE PROJECT SITE AND RELOCATE TEMPORARY FENCING AS MAY BE REQUIRED THROUGH THE PROGRESSIVE STAGES OF CONSTRUCTION.
- ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS OTHERWISE STATED.
- ALL BUILDING FOUNDATIONS & LAYOUT SHALL BE COORDINATED USING THE ARCHITECTURAL DRAWINGS ONLY. ARCHITECTURAL DRAWINGS TAKE PRECEDENCE OVER CIVIL DRAWINGS IN MATTER OF FOUNDATION AND BUILDING FOOTPRINTS.
- UNDERGROUND UTILITIES SERVING OR CROSSING THE PREMISES MAY EXISTING THAT HAVE NOT BEEN SHOWN ON THE SURVEY OR DESIGN DOCUMENTS. ALL UNDERGROUND UTILITY LOCATIONS MUST BE FIELD VERIFIED PRIOR TO ANY CONSTRUCTION ACTIVITY.
- CONTRACTOR MUST OBTAIN ALL NECESSARY LANE AND ROAD CLOSURE PERMITS BEFORE ANY WORK DONE IN THE RIGHT OF WAY AFFECTING TRAFFIC.
- ALL STRIPING AND PAVEMENT MARKINGS WITHIN COUNTY OR CITY RIGHT OF WAY IS TO BE THERMOPLASTIC AND ACCORDING TO GEORGIA DOT SPECIFICATIONS.
- AS-BUILT DRAWINGS OF ROADWAYS, STORM DRAINS, SEWER AND WATER, REQUIRED PRIOR TO ACCEPTANCE OR ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
- A SEPARATE BUILDING PERMIT SHALL BE OBTAINED FOR ALL RETAINING WALLS GREATER THAN 4 FEET IN HEIGHT AND ALL RETAINING WALLS USED AS A DAM PRIOR TO CONSTRUCTION OF WALLS.
- ALL CONSTRUCTION IS TO BE IN ACCORDANCE WITH STATE LAWS, LOCAL ORDINANCES AND SPECIFICATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY COUNTY/CITY OFFICIALS OF ALL REQUIRED INSPECTIONS.
- ALL CONTRACTOR CONTRACTORS MUST OBSERVE THE LIMITS OF CONSTRUCTION OR DISTURBANCE AS SHOWN.
- A LICENSED PROFESSIONAL GEOTECHNICAL ENGINEER SHALL BE ON SITE DURING CONSTRUCTION OF RETAINING WALLS TO INSPECT THE INTEGRITY OF SOILS USED TO CONSTRUCT ALL RETAINING WALLS.

### Cobb County General Notes:

- THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING THE EXACT LOCATION, SIZE AND MATERIAL OF ANY EXISTING WATER OR SEWER FACILITY PROPOSED FOR CONNECTION OR USED BY THIS PROJECT. THE RELOCATION OF ANY WATER/SEWER FACILITY REQUIRED TO AVOID ANY PART OF THIS DEVELOPMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL CONSTRUCTION TO CONFORM TO APPLICABLE COBB COUNTY WATER SYSTEM SPECIFICATIONS AND IN ACCORDANCE WITH COBB WATER SPECIFICATIONS.
- WHEN STREETLIGHTS ARE INSTALLED ALONG COUNTY ROADS, THE PROPERTY WILL BE ASSESSED A MONTHLY CHARGE OF \$3,500 PER FEET OF ROAD FRONTAGE, WHICH APPLIES TO THE WATER BILL.
- PARKING TO BE PAVED AND STRIPED IN ACCORDANCE WITH STANDARD DETAIL #103.
- ANY SIGNS TO BE PERMITTED THROUGH COBB COUNTY ZONING DIVISION, IE, SUBDIVISION ENTRANCE SIGNS, MONUMENTS, AND ALL COMMERCIAL SIGNS. THE LOCATION OF SUBDIVISION SIGNS MUST ALSO BE SHOWN ON PLANS.
- ANY CONSTRUCTION TRAILERS TO BE PERMITTED THROUGH THE ZONING DIVISION.
- COBB COUNTY ACCEPTS NO RESPONSIBILITY FOR THE AMERICANS WITH DISABILITIES ACT (ADA), EXCEPT FOR NOTIFICATION REQUIREMENT. THE OWNER/DEVELOPER IS SOLELY RESPONSIBLE FOR COMPLIANCE FOR SAID ACT.
- CONTRACTOR SHALL MAINTAIN SERVICE ACCESS AND POSTAL SERVICE FOR THE DURATION OF THE PROJECT.
- CONTRACTOR SHALL RESTORE ROADWAY SHOULDERS TO MINIMUM COBB COUNTY STANDARDS.
- THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN ONE OF THE FOLLOWING PERMITS PRIOR TO BEGINNING WORK; FOR A TOTAL ROAD CLOSURE OR LANE CLOSURE, CONTACT COBB DOT OPERATIONS AT 770-938-5175.
- CONTRACTOR SHALL MAINTAIN EXISTING PEDESTRIAN TRAVELWAY (SIDEWALK) AT ALL TIMES.
- THE ROADWAY AND SHOULDERS SHALL BE SHORED PROPERLY DURING ANY TRENCHING ACTIVITY. BACKFILLING SHALL MEET MINIMUM COUNTY AND STATE COMPACTION REQUIREMENTS. NO DROP-OFFS ADJACENT TO THE ROAD WILL REMAIN AFTER HOURS.
- RAISED PAVEMENT MARKERS ARE REQUIRED FOR ALL ROAD IMPROVEMENTS, WIDENINGS, AND COMMERCIAL ROADWAYS PER COBB DOT DETAIL STANDARDS.
- A PRE-CONSTRUCTION LANDSCAPE CONFERENCE IS REQUIRED FOR THIS PROJECT. CALL THE COBB COUNTY ARBORIST AT (770)938-2140. THERE ARE CRITICAL FACTORS ON THE LANDSCAPE PLAN THAT AFFECT BOTH THE GENERAL CONTRACTOR AND THE LANDSCAPE CONTRACTOR. PLANTING AREA DIMENSIONS, PLANTING METHODS, AS WELL AS PLANT MATERIALS MUST BE IN ACCORDANCE WITH THE APPROVED PLAN, OR LANDSCAPE INSPECTOR MAY DELAY THE RELEASE OF THE CERTIFICATE OF OCCUPANCY.
- THE COBB COUNTY ARBORIST OR LANDSCAPE ARCHITECT MUST APPROVE THE SITE LIGHTING PLAN. LIGHT POLES ARE NOT PERMITTED IN PARKING PENINSULAS, ISLANDS OR MEDIANS WITHOUT PRIOR APPROVAL OF THE COUNTY ARBORIST. 20 FT MINIMUM SPACING IS REQUIRED BETWEEN THE TRUNK OF ANY PROPOSED OVER-STORY HARDWOOD TREE (OR EXISTING TREE COUNTED FOR TREE ORDINANCE CREDIT) AND ANY EXISTING OR PROPOSED LIGHT POLE. IF THE SERVICE PROVIDER (ELECTRIC COMPANY) PRODUCES A LIGHTING PLAN, IT MUST ADHERE TO THE LIGHTING PLAN SHOWN IN THE CIVIL ENGINEERING DRAWINGS APPROVED BY COBB COUNTY FOR THE LAND DISTURBANCE PERMIT. IF A LIGHTING PLAN IS NOT PART OF THE CIVIL DRAWINGS, THE LIGHTING PLAN DESIGNER MUST SUBMIT A PLAN TO THE ARBORIST/LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL. IF SITE LIGHTING IS INSTALLED WITHOUT AN APPROVED PLAN, THE CERTIFICATE OF OCCUPANCY WILL BE WITHHELD UNTIL ALL CONFLICTING POWER POLES ARE MOVED. CALL 770-938-2140.
- STREET LIGHT REQUIREMENTS FOR NON-RESIDENTIAL AREAS:
  - THOSE DEVELOPING SHOPPING CENTERS, INDUSTRIAL PARKS, OFFICE PARKS, OR LIKE DEVELOPMENTS, SHALL INSTALL STREET LIGHTS ALONG PUBLIC RIGHT OF WAYS ADJOINING THEIR PROPERTY (SECTION 2-23-30 COBB COUNTY CODE)
  - ALL LIGHTING MUST MEET COBB COUNTY STANDARDS (SECTION 2-23-30 & 2-23-31 OF COBB COUNTY CODE)
  - LIGHTING REQUIREMENTS MUST BE MET AT THE TIME OF AND AS A REQUIREMENT OF THE SUBMISSION OF THE FINAL PLAN. (SECTION 2-23-31 OF COBB COUNTY CODE)

### Structural Notes

- THE FEDERAL REQUIREMENT OF THE ADA ARE NOT ENFORCED BY COBB COUNTY (44-2805-1191)
- CONTRACTOR SHALL COMPLY WITH THE ADA AND GEORGIA STATE ACCESSIBILITY CODE (ADA) (44-2805-1191)
- THE GEORGIA CITY OR MUNICIPAL ORDINANCE BUILDING CODE (SIC) REGULATED BY THE DEPT OF COMMUNITY AFFAIRS (44-109-040, 17 IN A COMPARISON OF THE INTERNATIONAL BUILDING CODE AND LOCAL ADMINISTRATIONS.
- CONTRACTOR SHALL COMPLY WITH THE GEORGIA STATE MINIMUM STANDARD BUILDING CODE (SBC) (770) 938-2025 AND THE LIFE SAFETY CODE (NFPA 904) (770) 938-8120.
- EROSION CONTROL PLAN, CONSTRUCTION PERMITS, AND THE COBB COUNTY ARCHITECTURAL DESIGN GUIDELINES WORKSHEET MUST BE SUBMITTED AND APPROVED BEFORE A BUILDING PERMIT WILL BE ISSUED TO ANY CONSTRUCTION WORK.
- SEPARATE BUILDING PERMITS ARE REQUIRED FOR REMOVAL OF ANY STRUCTURES.
- GENERAL CONTRACTOR RESPONSIBLE FOR OBTAINING ALL REQUIRED DEVELOPMENT PERMITS.

### Cemetery Note

THE COBB COUNTY CEMETERY PROFESSIONAL COMMISSION RESERVE THE RIGHT TO EXAMINE THE PROPERTY FOR ETHNIC, CULTURAL AND RELIGIOUS LOCATIONS LOCATED THEREIN. IF ANY ETHNIC, CULTURAL, AND/OR RELIGIOUS SENSITIVE LOCATIONS ARE IDENTIFIED, THE COBB COUNTY CEMETERY PROFESSIONAL COMMISSION MUST BE NOTIFIED AT (770)938-2140. FAILURE TO DO SO WILL BE RESULT A STOP WORK ORDER.

NO COBB COUNTY APPROVAL STAMPS ON THIS PLAN SET ARE VALID WITHOUT THE SIGNED SEAL OF THE DESIGN ENGINEER			SPR-2022-00		
DOT	SPR	COWS			
ZONING		SWM			
ARBORIST	ESC	STRUCTURAL			
FIRE	CEMETERY	OSC			
	HISTORIC	DESIGN/OVERLAY			

24 HR EMERGENCY CONTACT: Phil Crisp 770-256-8416

CONSTRUCTION DRAWINGS

# Cobb County Parks New Maintenance Building

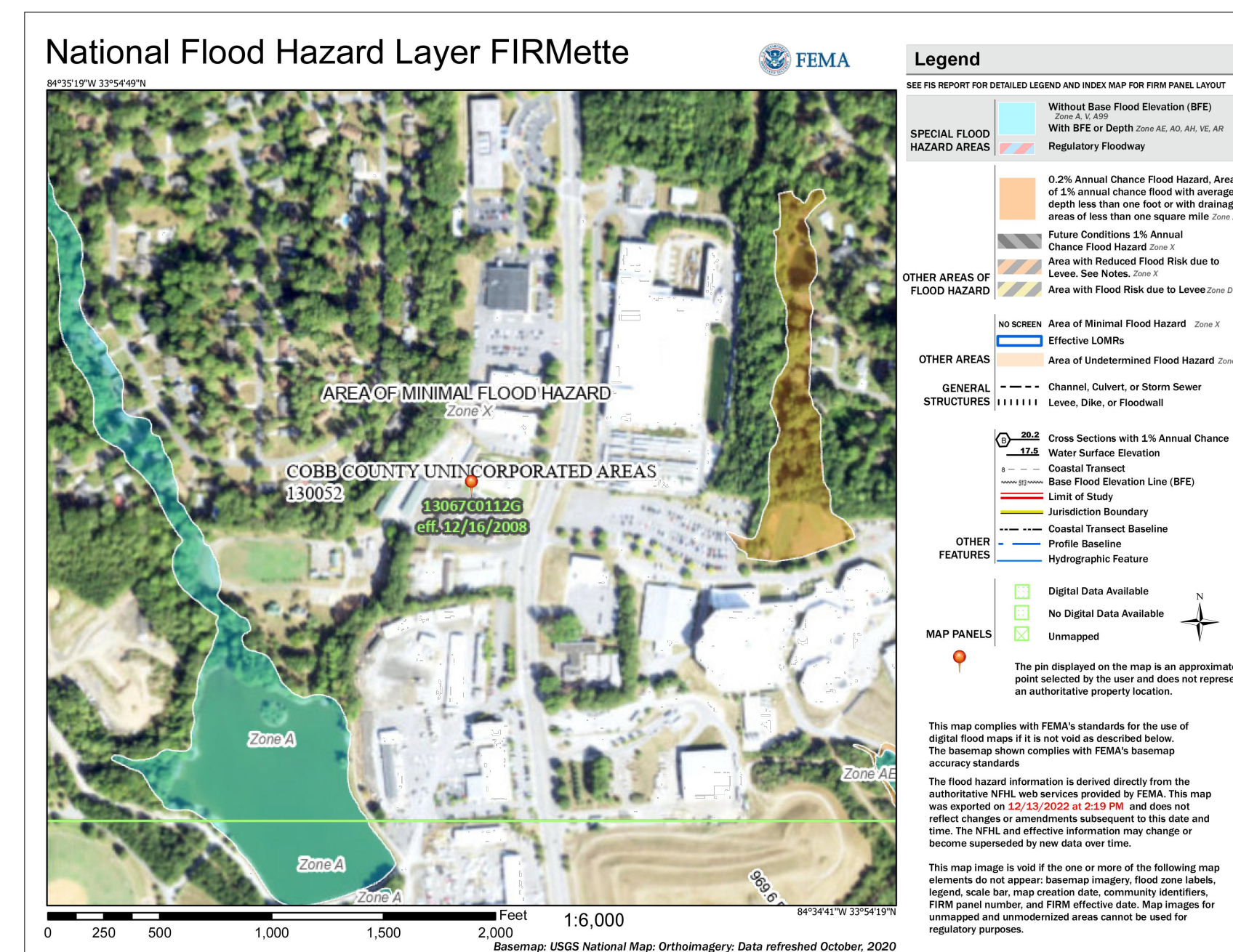
LL- 406 - 19th Dist.

1792 County Services Parkway  
Marietta, GA 30008

PIN 19040600010

### FEMA FLOOD PANEL

COMMUNITY FIRM PANEL NUMBER 13067C011G DATED 12-16-08 - PROJECT IS NOT IN FLOOD HAZARD AREA



THIS PROPOSED SITE IS NOT LOCATED WITHIN A FLOOD HAZARD AREA AS INDICATED BY THE ATTACHED FIRM COMMUNITY PANEL


### Erosion Control Certification

"I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA, PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 3 OF THE YEAR IN WHICH THE LAND DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OR THE SAMPLING OF THE STORM WATER OUTFALLS AND THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR 100001.

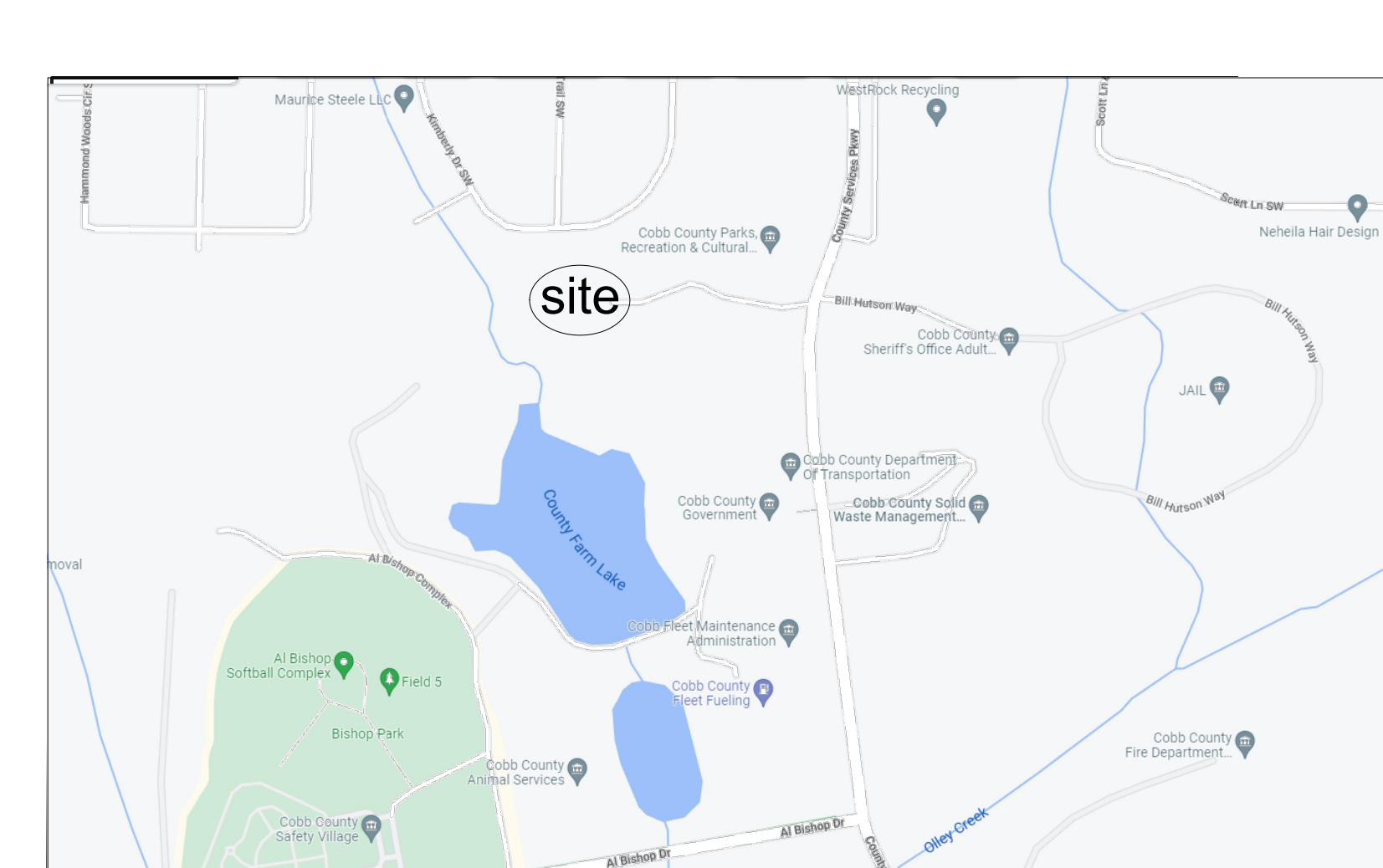
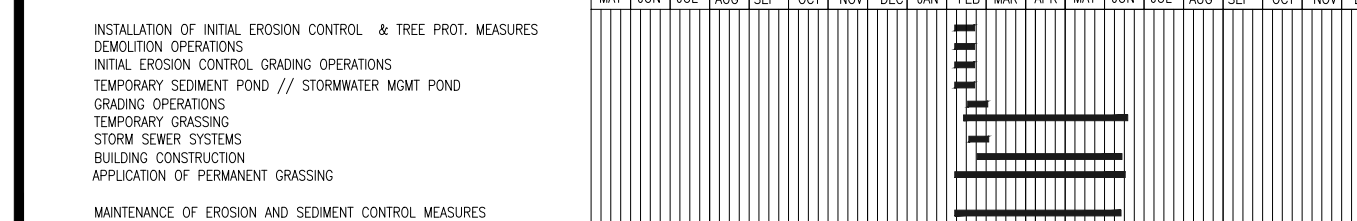
SIGNED:  PE - 18703  
GEORGIA REGISTRATION #

SITE DISTURBED AREA IS NOT LOCATED WITHIN 200 FT OF A STATE WATER

"I CERTIFY UNDER THE 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 DIRECT SUPERVISION"

CERTIFIED BY:  DATE: 12-16-2022

### Construction Activity Schedule



VICINITY MAP

### Construction Narrative

THE PROPOSED PROJECT CALLS FOR THE CONSTRUCTION OF A ONE STORY MAINTENANCE BUILDING (6,000 SF).

THE PROJECT LIMITS OF DISTURBANCE IS 0.3 ACRES, THEREFORE ONLY WATER QUALITY IS BEING PROVIDED FOR THE NEW BUILDING. WATER QUALITY WILL BE PROVIDED BY A VEGETATED SWALE.

DOMESTIC WATER WILL BE PROVIDED FROM EXISTING DOMESTIC SERVICES SERVING THE AREA. POWER WILL BE PROVIDED FROM EXISTING SERVICES IN THE AREA.

A NEW ON-SITE SEWAGE SYSTEM UTILIZING 500 GALLON SEPTIC TANK AND NEW DRAIN FIELD.

### Engineer

BREWER ENGINEERING, INC.  
400 GALLERIA PARKWAY  
SUITE 1500  
ATLANTA, GA 30339  
770-794-7012

### Owner / Developer

Cobb County  
100 Cherokee Street  
Suite 300  
Marietta, GA 30060

### ARBORIST NOTE

A LANDSCAPE CONFERENCE IS REQUIRED FOR THE PROJECT PRIOR TO ANY FINAL LANDSCAPE. CALL THE COBB COUNTY ARBORIST AND LANDSCAPE ARCHITECT AT (770)938-2140. THERE ARE CRITICAL FACTORS ON THE LANDSCAPE PLAN THAT AFFECT BOTH THE GENERAL CONTRACTOR AND THE LANDSCAPE CONTRACTOR. PLANTING AREA DIMENSIONS, PLANTING METHODS AS WELL AS PLANT MATERIALS MUST BE IN ACCORDANCE WITH THE APPROVED PLAN, OR LANDSCAPE INSPECTOR MAY DELAY THE RELEASE OF THE CERTIFICATE OF OCCUPANCY.

### GSWCC Certification:

I, JEFF BREWER, HEREBY CERTIFY THAT I HAVE VISITED THE SITE PRIOR TO CREATION OF THE EROSION AND SEDIMENT CONTROL PLAN AND HAVE VERIFIED THE PRESENCE OR LACK THEREOF OF ALL STATE WATERBODIES OR ADJACENT TO, THE SITE.

  
PLAN PREPARER SIGNATURE AND DATE

### Legend

COVER SHEET  
PROJECT NOTES

OVERALL SITE PLAN  
DEMOLITION PLAN  
SITE PLAN  
GRADING PLAN  
UTILITY PLAN

EROSION CONTROL - INITIAL PHASE  
EROSION CONTROL - INTERMEDIATE PHASE  
EROSION CONTROL - FINAL PHASE

DETAILS  
DETAILS  
TREE PROTECTION & REPLACEMENT PLAN

### Sheet #

C-00  
C-01

C-10  
C-20  
C-30  
C-40  
C-50

C-62  
C-63  
C-64

C-80  
C-81  
T-10

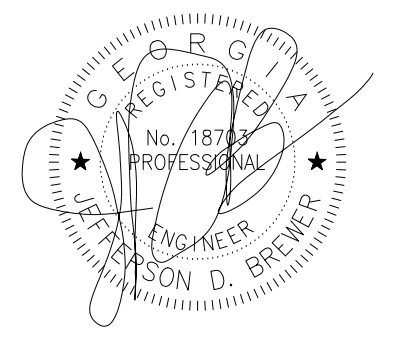
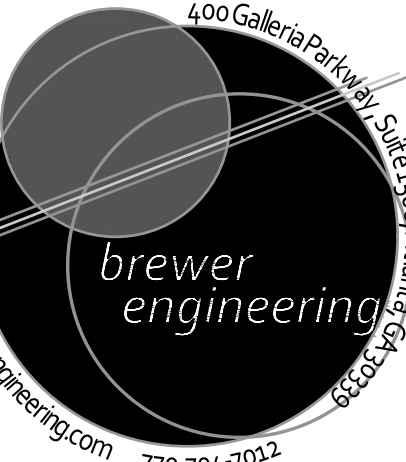
SPR-2022-00

CONTRACTOR MUST CALL THE UTILITY PROTECTION CENTER 'CALL BEFORE YOUR DIG' TELEPHONE NUMBER (1-800-282-7411) FOUR (4) DAYS BEFORE EXCAVATION.

TOTAL SITE AREA 40 ACRES  
TOTAL DISTURBED 0.30 ACRES



Know what's below.  
Call before you dig.  
Dial 811  
Or Call 800-282-7411



### REVISIONS

NO.	DATE	DESCRIPTION
1-13-23		PERMIT PACKAGE

This drawing, as an instrument of service, is and shall remain the property of Brewer Engineering and shall not be reproduced, published or used in any way without the written permission of Brewer Engineering, Inc.

Owner / Developer  
Cobb County  
100 Cherokee Street  
Suite 300  
Marietta, GA 30060

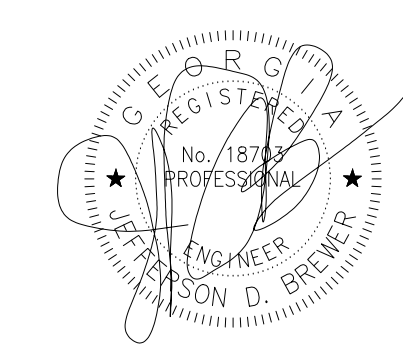
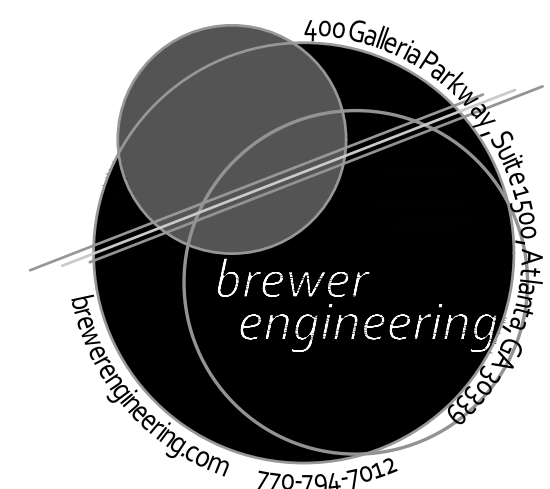
Cobb County Parks  
New Maintenance Building  
1792 County Services Parkway  
Marietta, GA 30008

NOT ISSUED FOR CONSTRUCTION

PROJECT NO.: 22068  
DATE: 12-16-2022  
SHEET TITLE:

COVER SHEET

SHEET NO.: C-0.0



## Demolition Notes

- THE APPROXIMATE LOCATION OF KNOWN UNDERGROUND UTILITIES HAVE BEEN SHOWN BY THE SURVEY AND CIVIL PLANS. IT SHALL BE THE GENERAL CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY, LOCATE, AND PROTECT ALL UTILITIES ON THE SITE. CONTRACTOR SHALL HIRE THEIR OWN PRIVATE UTILITY CONTRACTOR TO LOCATE AND IDENTIFY ALL UTILITIES WITHIN THE PROPOSED CONSTRUCTION AREA. CONTRACTOR SHALL IMMEDIATELY CONTACT OWNER, OWNER'S REPRESENTATIVE, AND PROJECT ENGINEER ANY DISCREPANCIES, CONFLICTS, OR OTHER UTILITIES ARE ENCOUNTERED PRIOR TO PROCEEDING WITH ANY FURTHER WORK.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST AND COORDINATION OF ALL NEW, RELOCATED, AND/OR REMOVED UTILITIES FOR THE PROJECT UNLESS OTHERWISE INDICATED IN THE PROJECT DOCUMENTS.
- ALL WORK SHALL COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, STANDARDS OR CODES. ALL NECESSARY LICENSES OR PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE.
- ALL CONSTRUCTION MUST CONFORM TO ALL APPLICABLE UTILITY, COUNTY, STATE AND MUNICIPALITY STANDARDS.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADES, SUFFICIENT LIGHTS, SIGNS, TRAFFIC CONTROL METHODS, AND SAFETY METHODS AS NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC. CONTRACTOR SHALL MAINTAIN THESE TRAFFIC CONTROLS AND SAFETY METHODS THROUGHOUT CONSTRUCTION OF THE PROJECT.
- BEFORE STARTING WORK CONTRACTOR SHALL MAKE SUCH EXPLORATIONS AND PROBES AS NECESSARY TO ASCERTAIN ANY ACTIVE UTILITY LINES AND TO MAKE SURE THESE UTILITIES CAN BE BROKEN OR CHANGED WITHOUT ANY DANGER OR DISRUPTION OF ANY NECESSARY UTILITY SERVICE.
- REMOVE MEANS TO REMOVE AND LEGALLY DISPOSE OF ITEMS EXCEPT THOSE INDICATED TO BE REINSTALLED, SALVAGED, OR TO REMAIN THE OWNER'S PROPERTY.
- REMOVE AND SALVAGE INDICATED ITEMS TO BE REMOVED AND SALVAGED AND WILL REMAIN THE PROPERTY OF THE OWNER. REMOVE, CLEAN, AND PACK OR CRATE ITEMS TO PROTECT AGAINST DAMAGE. IDENTIFY CONTENTS OF CONTAINERS AND STORE AS DIRECTED BY OWNER.
- REMOVE AND REINSTALL MEANS TO REMOVE ITEMS INDICATED: CLEAN, SERVICE, AND OTHERWISE PREPARE THEM FOR REUSE, STORE AND PROTECT AGAINST DAMAGE. REINSTALL ITEM IN THE SAME LOCATION OR LOCATION AS INDICATED.
- REMOVE AND REPLACE MEANS TO REMOVE DISPOSE OF ITEMS INDICATED AND INSTALL NEW ITEMS IN THE SAME LOCATION OR IN THE LOCATION INDICATED.
- FOR ALL ITEMS NOTED TO BE REMOVED, REMOVE NOT ONLY THE ABOVE GROUND ELEMENTS, BUT ALL THE ASSOCIATED UNDERGROUND ELEMENTS AS WELL INCLUDING BUT NOT LIMITED TO: FOUNDATIONS, GRAVEL FILLS, PIPING, CONDUIT, WIRING, TREE ROOTS, ETC.
- BACKFILL AND COMPACT ALL EXCAVATIONS RESULTING FROM THE DEMOLITION WORK TO MEET THE REQUIREMENTS AND SPECIFICATIONS FOR THE INTENDED USE OF THE AREA. EXAMPLE: IF EXCAVATION IS IN AN AREA TO BE A NEW BUILDING - COMPACTION AND BACKFILLING MUST COMPLY WITH SPECIFICATIONS FOR STRUCTURAL FILL FOR BUILDING PADS.
- DEMOLITION PLAN HAS BEEN PREPARED TO IDENTIFY MAJOR DEMOLITION ITEMS AND DOES NOT IDENTIFY EVERY SINGLE ITEM AND COMPONENT OF DEMOLITION. GENERAL CONTRACTOR MUST PERFORM A SITE VISIT PRIOR TO PREPARING A BID TO IDENTIFY ALL DEMOLITION ITEMS AND BECOME FAMILIAR WITH THE FIELD CONDITIONS OF THE PROJECT.
- WHEN UNANTICIPATED MECHANICAL, ELECTRICAL, STRUCTURAL, OR PLUMBING ELEMENTS CONFLICT WITH THE INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, INVESTIGATE AND MEASURE THE NATURE AND EXTENT OF THE CONFLICT. IMMEDIATELY SUBMIT A WRITTEN REPORT TO THE OWNER OR OWNER'S REPRESENTATIVE DOCUMENTING THE CONFLICT ALONG WITH A RECOMMENDED SOLUTION AND ESTIMATE COST.
- MAINTAIN EXISTING UTILITIES TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION AND CONSTRUCTION OF THE PROJECT. DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR OPERATING FACILITIES, EXCEPT WHEN AUTHORIZED IN WRITING BY THE OWNER AND BY AUTHORITIES HAVING JURISDICTION FOR THE UTILITY.
- PROVIDE NOT LESS THAN 72 HOURS NOTICE TO OWNER IF SHUTDOWN OF SERVICE IS REQUIRED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION ACTIVITIES DAMAGE TO EXISTING STRUCTURE DURING CONSTRUCTION.
- LIMITS OF DEMOLITION OF CURB AND GUTTER, CONCRETE SIDEWALKS, SHALL BE TO THE NEAREST CONSTRUCTION JOINT BEYOND THE AREA SHOWN TO BE DEMOLISHED. REPAIR WORK SHALL ALSO BE TO THE NEAREST JOINT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER DISPOSAL OF ALL REMOVED ITEMS AND CONSTRUCTION DEBRIS IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL CODES.
- CONTRACTOR SHALL COORDINATE A MEETING ON SITE WITH THE OWNER/OWNER'S REPRESENTATIVE TO REVIEW ALL ELEMENTS OF DEMOLITION, SCHEDULE OF DEMOLITION, TO IDENTIFY ALL ITEMS TO BE SALVAGED, AND LOCATIONS FOR STORAGE IF NECESSARY.
- CONTRACTOR SHALL REPAIR AT HIS/HER EXPENSE ALL DAMAGE TO ANY NEW OR EXISTING SITE IMPROVEMENT OR FEATURE THAT WAS CAUSED BY CONSTRUCTION ACTIVITY.
- ALL EXISTING UTILITIES LOCATED UNDER PROPOSED BUILDING FOUNDATIONS ARE TO BE RELOCATED AROUND AND AWAY FROM THE NEW BUILDING FOOTPRINT UNLESS OTHERWISE NOTED.
- DEMOLITION PLAN DOES NOT TAKE INTO ACCOUNT THE PHASING REQUIRED TO EXECUTE THE PROPOSED CONSTRUCTION PLAN, THE PHASING AND METHODS FOR DEMOLITION ARE CONSIDERED PART OF THE GENERAL CONTRACTOR'S MEANS AND METHODS.
- CONTRACTOR TO PROVIDE ALL NECESSARY TEMPORARY CONSTRUCTION FENCING TO PROTECT THE SAFETY OF THE WORKERS AND GENERAL PUBLIC. CONTRACTOR TO PROVIDE AND RELOCATE TEMPORARY FENCING AS REQUIRED BY EACH PHASE OF CONSTRUCTION.
- IN PAVEMENT AND SIDEWALK AREAS WHERE THERE IS TO BE UTILITIES THAT ARE TO BE REMOVED, RELOCATED AND/OR NEW BEING ADDED, CONTRACTOR IS TO CUT AND PATCH THE DISTURBED PAVEMENT IN THESE AREAS AS REQUIRED TO INSTALL THESE UTILITIES.
- IF CONTRACTOR DISCOVERS HAZARDOUS MATERIALS ON-SITE NOTIFY OWNER AND OWNER'S REPRESENTATIVE IMMEDIATELY. ALL HAZARDOUS MATERIALS MUST BE HAULED OFF SITE AND DISPOSED OF LEGALLY AND TAKEN TO AN APPROVED LANDFILL APPROVED FOR THE SPECIFIC HAZARDOUS MATERIALS.
- ALL EXISTING UTILITIES THAT ARE ENCOUNTERED AND ARE ALLOWED TO BE ABANDONED AND LEFT IN PLACE BY THE OWNER APPROVAL SHALL BE BULK HEADED AND GROUTED FULLY.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH ALL APPROPRIATE UTILITY PROVIDERS TO ADJUST LOCATION, ELEVATION, OR LOCATION OF GUY WIRES AND POLES. THIS COORDINATION SHALL BE PERFORMED AT THE BEGINNING OF THE PROJECT TO ENSURE THAT THE PROJECT SCHEDULE IS MAINTAINED.

## Misc. Notes:

- UNDERGROUND ELECTRICAL, TELEPHONE, CABLE TV, COMMUNICATIONS, SHALL BE IN CONDUIT.
- INERT POLYETHYLENE IDENTIFICATION TAPE BURIED IN SAME TRENCH 48" MAXIMUM BELOW FINISH GRADE FOR ALL UTILITY LINES AND WASTE LINES (NO EXCEPTIONS). FOR ALL UTILITIES THAT ARE NOT METALLIC IN ADDITION TO IDENTIFICATION TAPE, CONTRACTOR SHALL ALSO INSTALL TRACER WIRE FOR EACH UTILITY LINE.
- ELECTRICAL & TELEPHONE LINES BURIED MINIMUM OF 36" INCHES AND MAXIMUM OF 48" BELOW FINISH GRADE.
- ARCHITECT PLANS PRESIDE OVER ALL OTHER PLANS. THE SITE PLAN IS NOT TO SERVE AS THE FOUNDATION PLAN.
- ALL SIDEWALKS TO BE ADA COMPLIANT WITH A MAX. CROSS SLOPE OF 2% AND A MAXIMUM LONGITUDINAL SLOPE OF 3%.
- THE CONTRACTOR SHALL COORDINATE THE EXACT BUILDING & DUMPSTER DIMENSIONS, EXTERIOR BUILDING ELEVATIONS, ATTACHED CONCRETE FLOWWORK, UTILITY LOCATIONS, ETC. WITH THE ARCHITECTURAL PLANS PRIOR TO STARTING CONSTRUCTION AND IMMEDIATELY BRING TO THE ATTENTION OF THE ARCHITECT & ENGINEER ANY DISCREPANCIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY COSTS INCURRED BY FAILURE TO COORDINATE BETWEEN CIVIL AND ARCHITECTURAL PLANS.
- ALL ADA SPACES SHALL BE ADA COMPLIANT AND HAVE A MAXIMUM SLOPE OF 3% IN ANY DIRECTION.

## Grading Notes:

- PROPER EROSION CONTROL MEASURES AND DEVICES MUST BE INSTALLED PRIOR TO ANY MASS CLEARING, GRUBBING, AND STRIPPING OPERATIONS. TEMPORARY SEDIMENT BASINS MUST BE INSTALLED ACCORDING TO THE PHASED EROSION CONTROL PLAN PRIOR TO MAJOR CLEARING AND STRIPPING OPERATIONS. DETENTION PONDS AND SEDIMENT BASINS MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION OF THE PROJECT, MAINTENANCE INCLUDES THE PERIODIC REMOVAL OF ACCUMULATED SILT AND SEDIMENT.
- SITE CLEARING, GRUBBING, AND STRIPPING SHOULD BE PERFORMED ONLY DURING DRY WEATHER CONDITIONS. OPERATION OF HEAVY EQUIPMENT ON THE SITE DURING WET CONDITIONS COULD RESULT IN EXCESSIVE MIXING OF TOPSOIL AND ORGANIC DEBRIS WITH UNDERLYING SOILS.
- ALL EXCAVATIONS RESULTING FROM REROUTING OF UNDERGROUND UTILITIES MUST BE BACKFILLED IN ACCORDANCE WITH STRUCTURAL FILL SPECIFICATIONS.
- AREAS TO RECEIVE STRUCTURAL FILL BE PRODFOLLED PRIOR TO PLACEMENT OF STRUCTURAL FILL. SPECIFICATIONS. AREAS OF PROPOSED EXCAVATION MUST BE PRODFOLLED AFTER ROUGH FINISHED SUBGRADE IS ACHIEVED. PRODFROLLING MUST BE PERFORMED WITH MULTIPLE PASSES IN AT LEAST TWO DIRECTIONS USING FULLY LOADED TANDEM AXLE DUMP TRUCK WEIGHING AT LEAST 20 TONS. ALL PRODFROLLING MUST BE OBSERVED AND EVALUATED BY THE PROJECT GEOTECHNICAL ENGINEER. CONTRACTOR SHALL BE RESPONSIBLE COORDINATING ALL EARTHWORK OPERATIONS WITH PROJECT GEOTECHNICAL ENGINEER, SO THAT GEOTECHNICAL ENGINEER MAY OBSERVE, MONITOR, EVALUATE, AND TEST ALL EARTHWORK PERFORMED.
- PRODFROLLING MUST BE AVOIDED WITHIN 10 FEET OF EXISTING BUILDINGS AND WALLS. PRODFROLLING MUST BE OBSERVED AND DIRECTED BY THE PROJECT GEOTECHNICAL ENGINEER.
- STRUCTURAL FILL MUST BE FREE OF ORGANIC DEBRIS, WASTE CONSTRUCTION DEBRIS, AND OTHER DELETERIOUS MATERIALS. FILL MUST NOT CONTAIN ROCKS HAVING A DIAMETER OVER 4 INCHES. THE FOLLOWING USCS SOIL TYPES ARE TYPICALLY SUITABLE FOR USE AS STRUCTURAL FILL: (SM, SW, SC, SP, SM, & SP-SC) THE MAXIMUM DRY DENSITY OF STRUCTURAL FILL SHALL NOT BE LESS THAN 99 PCF.
- THE FOLLOWING SOIL TYPES ARE CONSIDERED UNSUITABLE FOR STRUCTURAL FILL: (MH, ML, CL, CH, OH, & PH)
- SUITABLE FILL MATERIAL MUST BE PLACED IN THIN LIFTS. LIFT THICKNESS DEPENDS ON THE TYPE OF COMPACTION EQUIPMENT, BUT A MAXIMUM LOOSE-LIFT OF 8 INCHES IS RECOMMENDED. SOILS SHALL BE COMPACTED BY SELF-PROPELLED SHEEPSFOOT ROLLER. SMALL EXCAVATIONS SUCH AS UTILITY TRENCHES, AROUND MANHOLES, ABOVE FOUNDATIONS, OR BEHIND WALLS ARE RECOMMENDED TO BE COMPACTED USING A "WACHER PACKER" OR "RAMMAX" COMPACTORS TO ACHIEVE SPECIFIED COMPACTION. LOOSE LIFTS OF 4 TO 6 INCHES ARE RECOMMENDED IN THESE SMALL AREA FILLS.
- STRUCTURAL FILL MUST BE COMPACTED IN ACCORDANCE WITH ASTM D-698 USING STANDARD PROCTOR AT MAXIMUM DRY DENSITY. UNDER BUILDING SLABS, RAMPS, STEPS, FILL WALLS & PAVED AREAS - 95% OF STANDARD PROCTOR AT MAX. DRY DENSITY, EXCEPT FOR THE UPPER 24 INCHES OF SUBGRADE SOILS MUST BE COMPACTED TO 98% OF MODIFIED PROCTOR, UNLESS OTHERWISE SPECIFIED. UNDER UNPAVED AREAS - 95% OF STANDARD PROCTOR AT MAX. DRY DENSITY.
- COMPACTION ZONE FOR STRUCTURAL FILL AREAS SHALL INCLUDE A BEARING PLANE OF ±1 FOR FILL AREAS WHICH EXTEND TO APPROVED SUBGRADE. COMPACTION REQUIREMENTS UNDER CURBING IS CONSIDERED UNDER PAVED AREA REQUIREMENTS.
- ALL GRADES SHALL SLOPE AWAY FROM THE BUILDING A MINIMUM OF 6 INCHES IN 10 FEET UNLESS OTHERWISE SPECIFIED. ADDITIONAL POSITIVE DRAINAGE WILL BE REQUIRED FOR BUILDINGS, WHEN BUILDINGS ARE LOCATED WITHIN 20 FEET OF AN UPWARD SLOPE.
- EXCAVATION OF TRENCHES MUST BE SUFFICIENTLY WIDE TO ENABLE INSTALLATION AND ALLOW INSPECTION. ALL CONSTRUCTION AND OSHA SAFETY REGULATIONS MUST BE FOLLOWED AT ALL TIMES.
- DISCOVERY OF UNSUITABLE SOILS OR ROCK MUST BE IMMEDIATELY REPORTED TO THE OWNER, OWNER REPRESENTATIVE, AND ENGINEER. ALL EARTHWORK OPERATION IN THIS AREA MUST NOT PROCEED UNTIL PROJECT GEOTECHNICAL ENGINEER REVIEWS THE AREA AND THE OWNER RELEASES THE CONTRACTOR TO PROCEED.
- MAXIMUM GRADED SLOPES ALLOWED 3H:1V.
- CONTRACTOR MUST HAVE GEOTECHNICAL ENGINEER OBSERVE AND APPROVE THE PRODFROLLING OF ALL PARKING AND DRIVE AREAS BEFORE AGGREGATE BASE COURSE IS APPLIED AND ALSO BEFORE ASPHALT OR CONCRETE IS APPLIED.
- CONTRACTOR SHALL OBSERVE, PROTECT, AND PRESERVE ALL AREAS SHOWN TO BE PROTECTED SUCH AS TREE SAVE AREAS, UNDISTURBED BUFFERS, WETLANDS, STREAMS, STREAM BUFFERS, CEMETERIES, STRUCTURES TO REMAIN, ETC. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS, DAMAGES, FINES, AND PENALTIES ASSOCIATED WITH FAILING TO PROTECT PROTECTED AREAS.
- CONTRACTOR MUST EXERCISE CARE DURING GRADING AND FILL PLACEMENT AND MAKE PREPARATION TO PROTECT THEIR WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXPOSED SURFACES FROM DETERIORATION CAUSED BY CONSTRUCTION EQUIPMENT AND WEATHER. CONTRACTOR WILL BEAR ALL COST ASSOCIATED WITH CORRECTING OR REPAIRING PREVIOUSLY EXECUTED EARTHWORK OR GRADING OPERATIONS.
- CONTRACTOR SHALL PROVIDE FOR EACH PHASE OF CONSTRUCTION AS REQUIRED TEMPORARY DIVERSION DEVICES FOR OFFSITE DRAINAGE, ON-SITE DRAINAGE, EXISTING STORM PIPING AND ROOF DRAINAGE AS NECESSARY TO CONTROL STORMWATER AND PROTECT CONSTRUCTION WORK.
- CONTRACTOR SHALL UNDERPIN ADJACENT STRUCTURES WHICH MAY BE DAMAGED BY EXCAVATION WORK. COORDINATION UNDERPINNING WITH PROJECT STRUCTURAL ENGINEER.
- AT THE END OF EACH DAY, AREAS FILLED THAT DAY MUST BE SEALED COMPLETELY BY COVERAGES BY ROLLING WITH A LOADED EARTH MOVING SCRAPER, DUMP TRUCK, OR LARGE RUBBER TIRE ROLLER TO PROTECT AGAINST POSSIBLE RAINFALL EVENTS.
- ALL SLOPES AND AREAS TO BE GRASSED OR LANDSCAPED SHALL BE GRADED SMOOTH AND A MINIMUM OF 4 INCHES OF CLEAN TOPSOIL APPLIED. SOIL MUST BE AMENDED AS SPECIFIED IN THE LANDSCAPE/GRASSING SPECIFICATIONS. THESE AREAS ARE TO BE FERTILIZED, MULCHED, WATERED, AND MAINTAINED UNTIL A HARDY PERMANENT STAND OF GROWTH IS ESTABLISHED. NOTE USE OF TOPSOIL DOES NOT CHANGE THE FINISH GRADE CONTOURS SHOWN ON THE CONSTRUCTION DOCUMENTS.
- EXCESS TOPSOIL MUST BE REMOVED FROM THE SITE AND SHALL BE CONSIDERED PART OF THE BASE BID.
- CONTRACTOR SHALL PROVIDE ALL EXCAVATING, FILLING, BACKFILLING, IMPORTING, EXPORTING, AND GRADING REQUIRED TO BRING THE ENTIRE PROJECT TO THE FINAL GRADES AND ELEVATIONS SHOWN IN THE DESIGN DOCUMENTS. CONTRACTOR SHALL INCLUDE IN THEIR BASE BID ALL REQUIRED IMPORTS THAT THE CONTRACTOR SHALL FURNISH ALL GAUGES, METERS, PRESSURE PUMPS, AND OTHER EQUIPMENT NEEDED TO TEST THE LINE. THE PRESSURE GAUGE USED FOR TESTING SHALL BE LABORATORY CALIBRATED SUITABLE FOR THE TEST PRESSURE REQUIRED. THE PRESSURE REQUIRED FOR THE FIELD HYDROSTATIC PRESSURE TEST SHALL BE 150% OF THE MAXIMUM OPERATING PRESSURE OF THE SECTION OR THE PRESSURE CLASS OF THE PIPE, WHICHEVER IS GREATER.

## Water Notes:

- PERFORM ALL WORK AND MATERIALS IN ACCORDANCE WITH APPROPRIATE UTILITY COMPANY AND MUNICIPALITY.
- ALL WATER LINES 4" AND LARGER SHALL BE DUCTILE IRON PIPE. ALL WATER LINES 2" AND SMALLER SHALL BE TYPE "K" COPPER.
- ALL PPE AND FITTINGS SHALL BE INSTALLED USING TYPE "B" BEDDING AND IN ACCORDANCE WITH REQUIREMENTS OF AWWA STANDARD SPECIFICATIONS.
- CONCRETE THRUST BLOCKS ARE REQUIRED AT ALL BENDS, TEES, REDUCERS, AND CAPS AND SHALL BE SIZED ACCORDING TO WATER AUTHORITY STANDARD SPECIFICATIONS. CONCRETE THRUST BLOCKS SHALL BE A MINIMUM 1200 PSI.
- CONTRACTOR SHALL PERFORM HYDROSTATIC PRESSURE AND LEAKAGE TESTS CONFORMING TO SECTION 4 OF AWWA C600 SPECIFICATIONS WITH THE EXCEPTION THAT THE CONTRACTOR SHALL FURNISH ALL GAUGES, METERS, PRESSURE PUMPS, AND OTHER EQUIPMENT NEEDED TO TEST THE LINE. THE PRESSURE GAUGE USED FOR TESTING SHALL BE LABORATORY CALIBRATED SUITABLE FOR THE TEST PRESSURE REQUIRED. THE PRESSURE REQUIRED FOR THE FIELD HYDROSTATIC PRESSURE TEST SHALL BE 150% OF THE MAXIMUM OPERATING PRESSURE OF THE SECTION OR THE PRESSURE CLASS OF THE PIPE, WHICHEVER IS GREATER.
- CONTRACTOR SHALL PROVIDE OWNER WITH WRITTEN CERTIFICATION FROM THE WATER AUTHORITY THAT THE WATER LINES INSTALLED AND ALL REQUIRED TESTING COMPLY WITH THEIR STANDARDS AND SPECIFICATIONS.
- CONTRACTOR SHALL PROVIDE INERT POLYETHYLENE IDENTIFICATION TAPE BURIED IN THE SAME TRENCH 48" MAXIMUM BELOW FINISH GRADE FOR ALL UTILITY LINES AND WASTE LINES (NO EXCEPTIONS). FOR ALL UTILITY LINES PVC OR NON-METALLIC CONTRACTOR IN ADDITION TO PROVIDING AND INSTALLING IDENTIFICATION TAPE SHALL TRACER WIRE AS WELL. CONTRACTOR TO PROVIDE OWNER WITH PHOTOGRAPHS OF TRENCHES TO DOCUMENT THE IDENTIFICATION TAPE HAS BEEN INSTALLED.
- CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OF OSHA DIRECTIVES, OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL PROVIDE ALL SUPPORT SYSTEMS, SLOPING, BENCHING, AND OTHER MEANS OF PROTECTION NECESSARY. THIS IS TO INCLUDE, BUT IS NOT LIMITED TO ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA BY OSHA.
- ALL TRENCH BACKFILLING FOR UTILITIES SHALL HAVE CLASS B BEDDING. CLASS B BEDDING SHALL BE DEFINED AS #57 STONE PLACED IN TRENCH MINIMUM OF 6 INCHES BELOW UTILITY INVERT AND FILLED UP TO THE CENTERLINE OF THE UTILITY PIPE UNLESS OTHERWISE DETAILED DIFFERENTLY IN THE CONSTRUCTION DOCUMENTS. THOROUGHLY TAMP AND COMPACT THE GRANULAR MATERIAL AS IT IS BEING PLACED IN THE DTCH.

## Permanent Grassing:

- CONTRACTOR IS RESPONSIBLE FOR ATTAINING FINAL PERMANENT GRASSING FOR THE PROJECT. ALL TEMPORARY GRASSING WHICH DOES NOT COMPLY WITH THE REQUIRED PERMANENT GRASSING MATERIALS WHICH WERE INSTALLED FOR EROSION CONTROL MEASURES OR CONVENIENCE OF THE CONTRACTOR MUST BE FULLY TILLED UNDER THEN THE SOIL PREPARED FOR PERMANENT GRASSING. EVEN IF CONTRACTOR IS NOT PROVIDING FINAL PERMANENT GRASSING OR SOIL, CONTRACTOR IS RESPONSIBLE FOR BRINGING THE SITE TO FINAL GRADE AND PREPARING THE TOP 2 INCHES OF THE SUBGRADE AND PROVIDING CLEAN TOPSOIL FOR PLANTING AND/OR SEEDING. TOP 2 INCHES MAY NOT CONTAIN ROCKS, DEBRIS, ROOTS, AND OTHER DEBRIS. CONTRACTOR MAY NOT SPREAD CONSTRUCTION MATERIALS, GRAVEL, STONE, ETC. IN SITE FILL WITHOUT WRITTEN PERMISSION FROM THE OWNER.
- CONTRACTOR MUST TAKE SOIL SAMPLES FROM SEVERAL AREAS OF THE SITE SCHEDULED FOR GRASSING/LANDSCAPING/SDO TO BE ANALYZED BY THE AGRICULTURAL EXTENSION SERVICE (AES). CONTRACTOR MUST PROVIDE OWNER/ARCHITECT WITH A WRITTEN REPORT FROM AES WITH THEIR RECOMMENDATIONS FOR SOIL AMENDMENTS & FERTILIZERS TO BE USED ON THE SITE. ALL TESTING AND SOIL AMENDMENTS, FERTILIZERS, ETC. ARE TO BE INCLUDED IN THE CONTRACTOR'S BASE BID.
- SUBMIT RESULTS OF LABORATORY SOIL TEST AND A SAMPLE OF THE RECOMMENDED SOIL MIX A MINIMUM OF ONE WEEK PRIOR TO BEGINNING WORK.
- A MINIMUM OF 2 INCH DEPTH OF TOPSOIL IS REQUIRED FOR ALL GRASS AREAS. CONTRACTOR IS SOLELY RESPONSIBLE FOR OBTAINING AND DISTRIBUTING ALL REQUIRED TOPSOIL MATERIAL FOR GRASSING AND LANDSCAPING FOR THE PROJECT.
- LOOSEN THE GRADE OF LAWN AREAS TO A MINIMUM DEPTH OF 6 INCHES. REMOVE STONES OVER 1/2 INCH IN DIAMETER IN ANY ONE DIMENSION.
- GRADE LAWN TO A SMOOTH, EVEN SURFACE WITH LOOSE, UNIFORMLY FINE TEXTURED SOIL SLOPED FOR PROPER DRAINAGE. THE GRADE MUST BE SMOOTH AND UNIFORM TO ACCOMPLISH MOWING OF GRASS TO UNIFORM HEIGHTS WITHOUT SCALPING. ROLL AND RAKE, AS REQUIRED WITHIN 0.10 FOOT OF REQUIRED GRADE. LIMIT FINE GRADING TO AREAS WHICH CAN BE PLANTED IMMEDIATELY AFTER GRADING.
- CLEAN TOPSOIL OF ROOTS, PLANTS, CLODS, STONES, CLAY LUMPS AND OTHER EXTRANEOUS MATERIAL. NO ROCKS OR STONES LARGER THAN 1/2 OF AN INCH IN DIAMETER ARE ALLOWED IN THE TOPSOIL OR SURFACE OF THE GRASSED AND LANDSCAPE AREAS.
- FERTILIZE AND LIME PRIOR TO START OF GRASSING OPERATION. APPLY GROUND LIMESTONE AT THE RATE RECOMMENDED BY SOIL TEST ANALYSIS AND WORK INTO TOP 2 INCHES OF THE SOIL. APPLY FERTILIZER AT THE RECOMMENDED RATE, WORK INTO TOP 2 INCHES OF SOIL. IF INSTALLING SOD, FERTILIZER APPLICATION MUST PRECEDE THE PLACEMENT OF SOD BY MORE THAN THREE DAYS.
- MOISTEN PREPARED LAWN AREAS BEFORE PLANTING IF SOIL IS DRY. WATER THOROUGHLY AND ALLOW SURFACE MOISTURE TO DRY BEFORE PLANTING LAWN.
- MATERIALS WHICH HAVE EITHER DIED OR FAIL TO SHOW SATISFACTORY VIGOROUS GROWTH SHALL BE REMOVED AND REPLACED WITH EQUAL AS-SPECIFIED MATERIALS. DAMAGES BY OTHERS OR UNUSUAL INCIDENTS BEYOND THE CONTRACTOR'S CONTROL ARE EXCEPTED. ARCHITECT/OWNER WILL ARBITRATE ANY DISPUTES.
- SOIL AMENDMENTS TO INCLUDE LIME, ORGANIC SOIL AMENDMENT, BONE MEAL, SUPERPHOSPHATE, COMMERCIAL FERTILIZER, TOPSOIL, AND PLANTING MIX.
- REPAIR LAWN AREAS, IF ERODED OR OTHERWISE DISTURBED, AFTER FINE GRADING AND PRIOR TO PLANTING.
- WHERE LAWNS ARE TO BE PLANTED IN AREAS THAT HAVE NOT BEEN ALTERED OR DISTURBED BY EXCAVATION, GRADING, ETC., PREPARE SOIL FOR LAWN PLANTING AS FOLLOWS PRIOR TO PREPARATION OF UNCHANGED AREAS: REMOVE EXISTING GRASS, VEGETATION, AND TURF. DISPOSE OF SUCH MATERIAL AWARDS OWNER'S PROPERTY. TILL TO A DEPTH OF NOT LESS THAN SIX INCHES; APPLY SOIL AMENDMENTS AND INITIAL FERTILIZERS AS SPECIFIED; REMOVE HIGH AREAS AND FILL IN DEPRESSIONS; TILL SOIL TO A HOMOGENEOUS MIXTURE OF FINE TEXTURE, FREE OF LUMPS, STONES, ROOTS AND OTHER EXTRANEOUS MATTER.
- BEGIN MAINTENANCE IMMEDIATELY AFTER PLANTING AND MAINTAIN UNTIL DATE OF SUBSTANTIAL COMPLETION BUT NOT LESS THAN 60 CALENDAR DAYS AFTER SEEDING/RODING AND PLANTING. IF MATERIAL IS NOT DENSED TO HAVE SUSTAINED VIGOROUS UNIFORM GROWTH AT THE END OF 60 DAYS, THE CONTRACTOR SHALL CONTINUE TO PROVIDE MAINTENANCE UNTIL VIGOROUS UNIFORM GROWTH IS ATTAINED.
- MAINTENANCE INCLUDES: WATERING, MOVING, WEEDING, REPAIRING ERODED AREAS, RE-SEEDING AS REQUIRED OR RE-SODDING.
- AN ACCEPTABLE VIGOROUS UNIFORM STAND OF GRASS IS DEFINED AS ESTABLISHMENT OF SPECIFIED GRASS, PROPERLY WATERED, MAINTAINED, MOWED, AND FREE OF WEEDS, WITH GRASS HAVING A MINIMUM OF 90% COVERAGE OVER THE REQUIRED AREAS AND ONLY SCATTERED BARE SPOTS, NONE OF WHICH IS LARGER THAN ONE SQUARE FOOT IN AREA. FULL GRASS COVERAGE SHALL BE REQUIRED WITHIN 60 CALENDAR DAYS OF PLANTING.

## Construction Notes:

- GENERAL CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING PRIOR TO ANY LAND DISTURBANCE:
  - INSTALL BMP'S AS SHOWN ON CLEARING PHASE EROSION CONTROL PLANS.
  - ALL TREE SAVE, STREAM BUFFERS, ZONING BUFFERS, AND ANY UNDISTURBED BUFFERS SHALL BE MARKED WITH ORANGE BARRIER FENCE PRIOR TO CLEARING.
  - INSTALL THE CONSTRUCTION ENTRANCE PAD (C) PRIOR TO ALLOWING VEHICLES INTO WORK SITE. INSTALL FABRIC LINING AND STONE FOR CONSTRUCTION ENTRANCE PER APPROVED COUNTY SITE PLAN (GRADE ENTRANCE IF NECESSARY). STONE PAD MUST BE LARGE ENOUGH TO ACCOMMODATE LOGGING TRUCKS (100'x50'x6" MINIMUM). USE 2" x 3" STONE (#35 STONE). INSTALL GEOTEXTILE MAT UNDER C) PAD.
  - CONSTRUCTION ENTRANCE PAD MUST BE MAINTAINED AT ALL TIMES TO MINIMIZE MUD BEING TRACKED ONTO STREETS. TRACKING MUD ONTO PUBLIC STREETS WILL RESULT IN A STOP WORK ORDER BEING ISSUED.
- THE CONTRACTOR'S SET OF APPROVED SITE PLANS MUST BE ON SITE.
- ALL TREE SAVE AREAS, STREAM BUFFERS, AND UNDISTURBED BUFFER AREAS MUST BE MARKED BY A CERTIFIED LAND SURVEYOR HIRED BY THE CONTRACTOR.
- CONTRACTOR'S LAND DISTURBANCE PERMIT (ORANGE PERMIT CARD) MUST BE POSTED WHERE VISIBLE NEAR ENTRANCE.
- WORK ON SITE WILL BE LIMITED TO APPROVED PLANS (CLEARING ONLY, GRADING ONLY, FULL SITE).
- CONTRACTOR MUST PROVIDE AND PLACE GEORGIA D.O.T. APPROVED CONSTRUCTION SIGNS AT DISTANCES OF 500, 1000, 1500 FEET IN BOTH DIRECTIONS PRIOR TO THE START OF WORK. ALL SITES REQUIRING WORK IN THE COUNTY RIGHT OF WAY MUST APPLY FOR A LANE CLOSURE PERMIT. CONSTRUCTION SIGNS ARE TO BE REMOVED UPON COMPLETION OF WORK ON RIGHT-OF-WAY.
- CONTRACTOR SHALL PROVIDE SAFETY BARRELS, BARRICADES, AND CONES AS REQUIRED AND MUST BE OFF WHITE LINE AT PAVEMENT EDGE. IF THEY CROSS THE WHITE LINE IT WILL BE CONSIDERED A LANE CLOSURE, AND FLAGMEN WILL BE REQUIRED.
- ALL ABOVE GROUND FUELING TANKS WILL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATIONS (NFPA) AND THE ENVIRONMENTAL PROTECTION AGENCY (EPA) REGULATIONS.
- A CONCRETE TRUCK WASH AREA MUST BE PROVIDED ON SITE BY CONTRACTOR.
- DETENTION PONDS AND/OR TEMPORARY SEDIMENT BASINS (56) MUST BE CLEARED PRIOR TO THE REMAINING ACREAGE BEING CLEARED, IF APPLICABLE.
- INSTALL DETENTION PONDS WITH GRADING AS SOON AS POSSIBLE. DETENTION PONDS MUST BE INSTALLED PRIOR TO INSTALLATION OF STORM DRAINS.
- DO NOT INSTALL WATER QUALITY FILTERING DEVICE UNTIL SITE IS 95% STABILIZED. DEVICE MUST BE INSTALLED PRIOR TO CERTIFICATE OF OCCUPANCY BY COBB COUNTY.
- USE EROSION CONTROL MATTING ON ALL CUT AND FILL SLOPES STEEPER THAN 2:1 AND WITH A HEIGHT OF 10 FEET OR GREATER, AND ON CUTS AND FILLS WITHIN A STREAM BUFFER. MATTING MUST BE DONE UPON COMPLETION OF GRADES.
- TEMPORARY GRASS OR COVERING WILL BE APPLIED AFTER GRADING IS COMPLETED BUT NO LATER THAN 14 DAYS OF DISTURBANCE.
- INSTALL MULCH ON ALL DISTURBED AREAS ON PAVED, OR WHENEVER A RAIN EVENT IS FORECAST.
- TEMPORARY GRASSING OR COVERING WILL BE APPLIED ON ALL DISTURBED SOIL IN AREAS OF CONSTRUCTION SITE THAT IS IDLE FOR MORE THAN (FIVE) 5 DAYS.
- A GRAVEL EQUIPMENT SUPPLY STAGING AREA WILL BE INSTALLED PRIOR TO ANY BUILDING BEING STARTED.
- CONTACT SITE INSPECTOR FOR INSPECTION WHEN ROUGH GRADING IS COMPLETED.
- CONTACT SITE INSPECTOR BEFORE STARTING WORK ON STORM DRAINAGE SYSTEM.
- ALL OPENINGS MUST BE BEHIND BACK OF CURB. OPENINGS CANNOT BE PLATED. STRUCTURES MUST BE MOVED IF OPENING IS NOT BEHIND BACK OF CURB.
- TOP OF CATCH BASIN STRUCTURE SHOULD BE INSTALLED AT LEAST 8-10 INCHES BELOW SUB-GRADE. WEEP HOLE PIPE SHOULD BE INSTALLED UNDER THROUGH IN THROAT. WEEP HOLE PIPE SHOULD BE MAX SIZE OF 3" SCHEDULE 40 PIPE.
- USE MORTAR TO SEAL PIPE TO CATCH BASIN TO SEAL THE RINGS AND HOLES IN CATCH BASIN.
- INSTALL A SPLASH PAD IN BOTTOM OF CATCH BASIN.
- INSTALL RIP-RAP OR GEO-TECH FABRIC AT ALL HEADWALL OUTLETS.
- CONTACT SITE INSPECTOR FOR AN INSPECTION WHEN STORM DRAIN PIPE WORK IS COMPLETED.
- ALL ORGANICS AND TOP SOIL SHALL BE REMOVED FROM THE ENTIRE FOOTPRINT OF THE DETENTION POND DAM. EARTHEN FILL SHALL BE CL OR ML MATERIAL APPROVED FOR USE BY GEOTECHNICAL ENGINEER (PE) AND PLACED IN 12" CHITS AND COMPACTED TO NOT LESS THAN 95% STANDARD PROCTOR UNDER GEOTECHNICAL ENGINEER'S DIRECTION. ALL EARTHEN DETENTION PONDS MUST BE CERTIFIED BY GEOTECHNICAL ENGINEER (PE) FOR COMPACTION PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY.
- CONTRACTOR MUST PROVIDE A SEDIMENT MARKER TO BE INSTALLED IN THE DETENTION PONDS THAT CLEARLY MARKS THE SEDIMENT CLEANOUT ELEVATION. THIS ELEVATION IS SHOWN ON THE APPROVED PLANS.
- DETENTION POND FENCING MUST BE INSTALLED AROUND THE POND PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY.
- WHEN TYPING INTO EXISTING CURB, THE NEW CURB AND GUTTER SHALL TAPER INTO EXISTING CURB WITH MEASUREMENTS FOR INSTALLING CURB ON EXISTING COUNTY RIGHT OF WAY MUST BE MADE FROM THE CENTERLINE OF THE EXISTING ROAD.
- CONTACT SITE INSPECTOR FOR AN INSPECTION WHEN CURB AND GUTTER WORK IS COMPLETED.
- CONTACT SITE INSPECTOR BEFORE STARTING WORK ON SUB-GRADE.
- SUB-GRADE PREPARATION SHALL MEET MINIMUM SPECIFICATIONS AND PASS PROOF ROLL TESTING AND OBSERVED BY GEOTECHNICAL ENGINEER.
- WIDENING SECTION ALONG EXISTING STREET SHALL BE INSTALLED TO MATCH EXISTING CURVATURE AND SUPER ELEVATION UNLESS OTHERWISE SPECIFIED.
- ADA AND STRIPING MUST BE INSTALLED PRIOR TO ISSUANCE OF CERTIFICATE OF OCCUPANCY.

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PROJECT NO.: 2206B  
DATE: 12-16-2022  
SHEET TITLE:

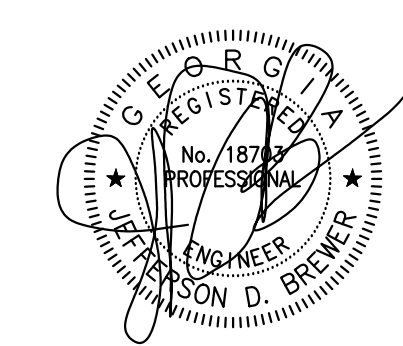
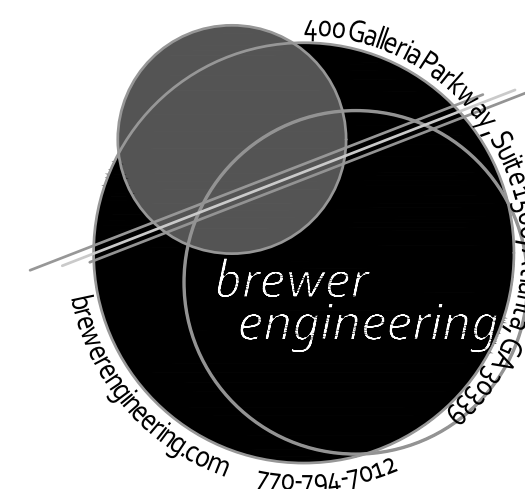
PROJECT NOTES

SHEET NO.: C-0.1

Owner / Developer  
Cobb County  
100 Cherokee Street  
Suite 300  
Marietta, GA 30060  
  
Cobb County Parks  
New Maintenance Building  
1792 County Services Parkway  
Marietta, GA 30068







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Cobb County Parks  
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1792 County Services Parkway  
Marietta, GA 30068

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PROJECT NO.: 22068

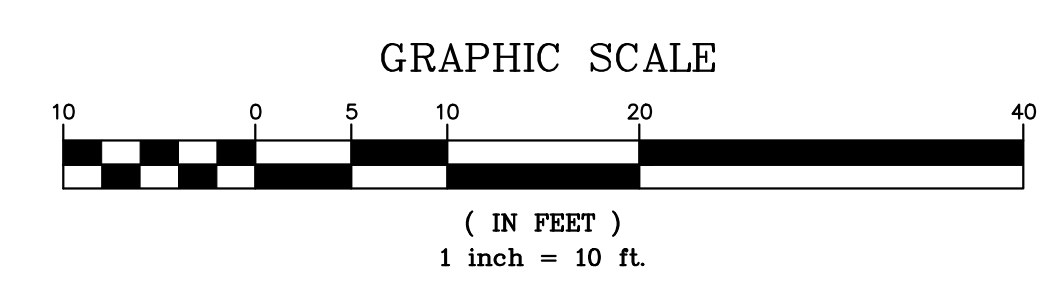
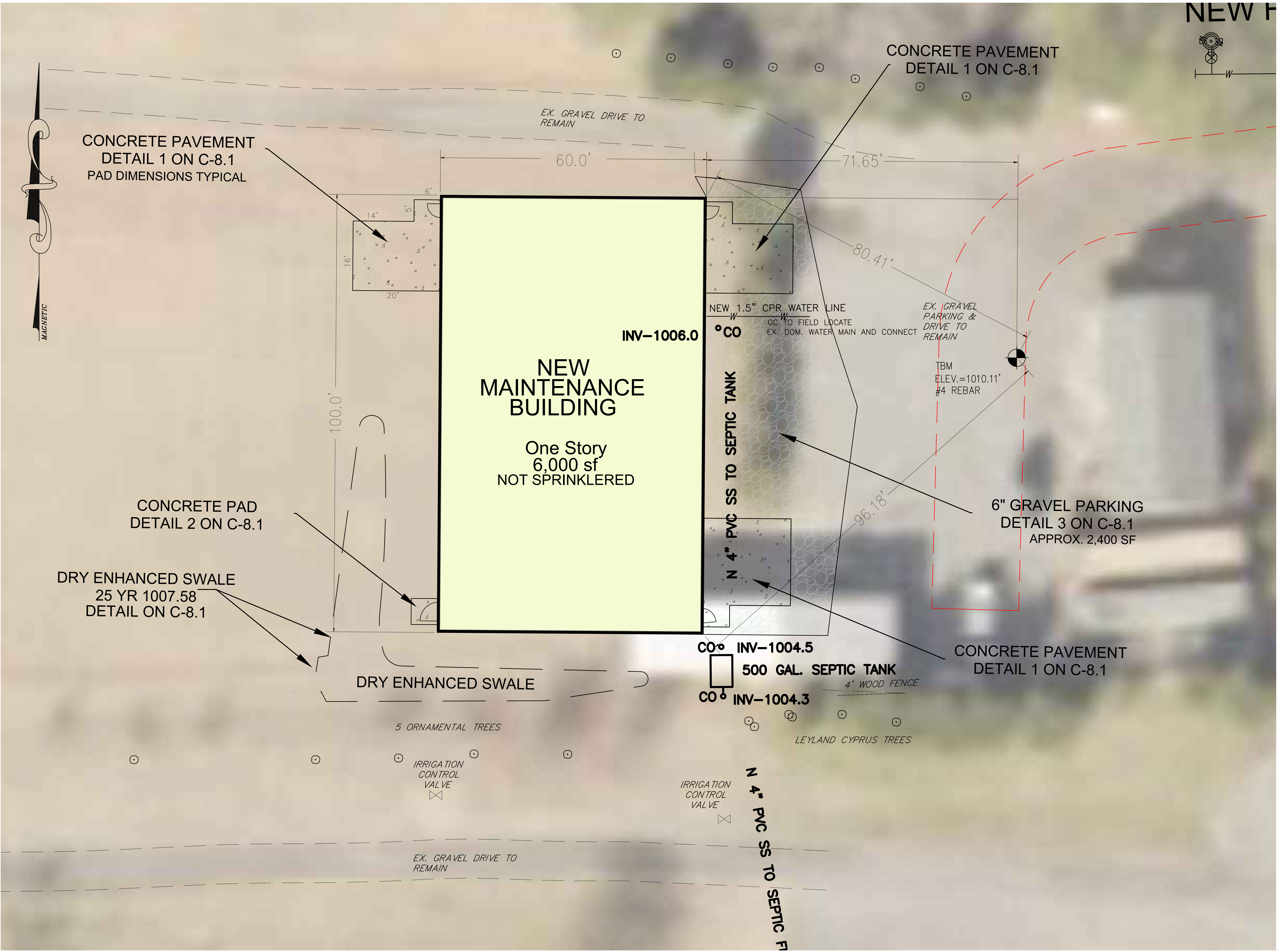
DATE: 12-16-2022

SHEET TITLE:

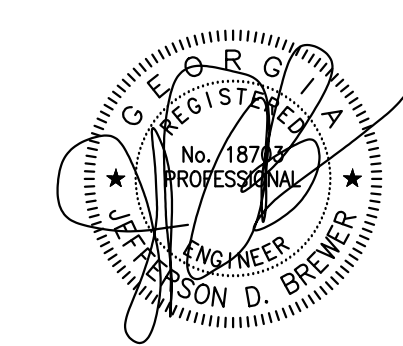
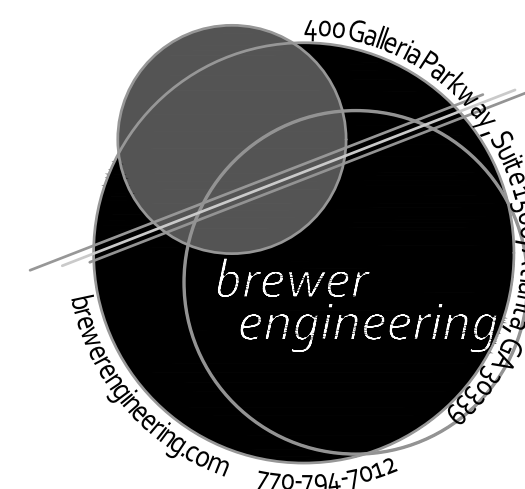
SITE PLAN

SHEET NO.:

C-3.0







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PROJECT NO.: 22068

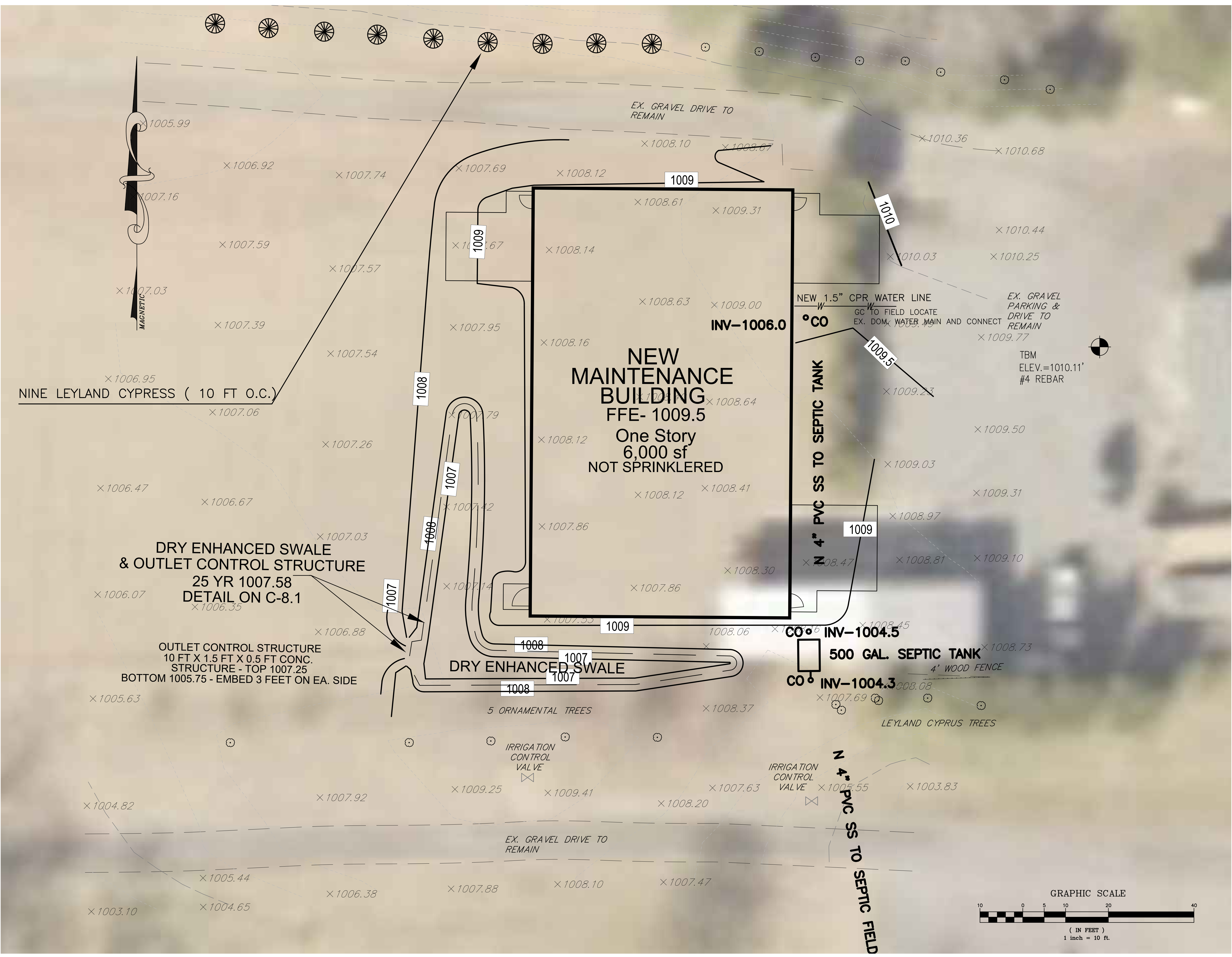
DATE: 12-16-2022

SHEET TITLE:

GRADING PLAN

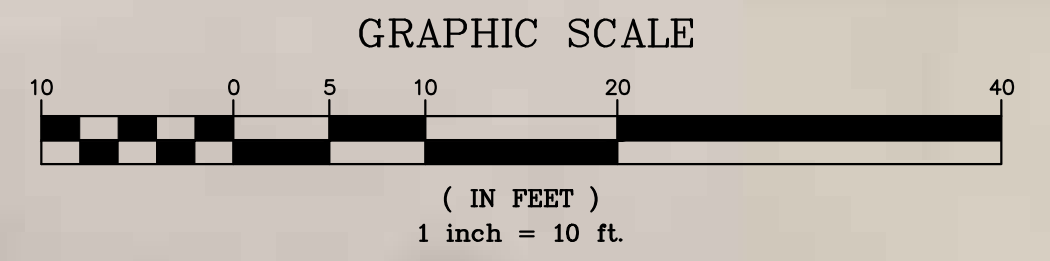
SHEET NO.:

C-4.0



**Grading Legend**

SYMBOL	DESCRIPTION
	BENCHMARK WITH TOPOGRAPHIC DATUM
	FINISHED SPOT ELEVATION
ST.#	STRUCTURE IDENTIFICATION THE FIRST TWO LETTERS ABBREVIATE THE STRUCTURE TYPE. THE NUMBER IDENTIFIES THE STRUCTURE. SEE PROFILE SHT. FOR DETAILS
	FINISHED CONTOUR ELEVATION
	EXISTING CONTOUR ELEVATION
	SURFACE DRAINAGE DIRECTION
ASCMP	ALUMINIZED STEEL CORRUGATED PIPE TYPE 2
BCMP	ASPHALT COATED METAL PIPE
BC	BACK OF CURB
BW	BOTTOM OF WALL AT FINISH GRADE
CB	CATCH BASIN
CR	CROWN
DIP	DUCTILE IRON PIPE
DI	DROP INLET
EP	EDGE OF PAVEMENT
FC	FACE OF CURB
FD	FOUNDATION DRAIN
FF	FINISHED FLOOR
FG	FINISHED GRADE ELEVATION
FL	FLOW LINE OF CURB OR DITCH
INV	INVERT
HP	HIGH POINT
HW	HEADWALL
JB	JUNCTION BOX
LP	LOW POINT OR LIGHT POLE
MH	MANHOLE
RCP	REINFORCED CONCRETE PIPE
SSMH	SANITARY SEWER MANHOLE
TC	TOP OF CURB
TD	TOP OF TRENCH DRAIN GRATE
TF	TOP OF FOOTING
TW	TOP OF WALL
WV	WATER VALVE



**LEVEL 3 SOIL STUDY REPORT**

Via Email (5 Pages Total)  
Report Number: 22-023A07

**Report Date:** October 7, 2022  
**Client:** Cobb County Parks / Barbara Savage / Phillip Crisp  
1792 County Services Parkway  
Marietta, GA 30068  
**Site Location:** 1792 County Services Parkway  
Marietta, Cobb County, GA

**SOIL PROPERTIES**

Soil Series	Slope Gradient (%)		Depth To (Inches)		Estimated Absorption & Long-Term Acceptance Rate (2) at Recommended Trench Depth (Minutes per Inch) & (GPD/SqFt)	Recommended Absorption Trench Depth (Inches)	Soil Suitability Code (Lined Below)
	Estimated	Verified	Verified	Estimated			
Appling	5-15	>72	>72	>72	75 (0.41 GPD/SqFt)	20-34	A2, Rec
Cecil	5-20	>72	>72	>72	60 (0.43 GPD/SqFt)	20-36	A2, Rec
Pacolet	15-20	>72	>72	>72	47 (0.50 GPD/SqFt)	20-36	A2, Rec

(1) - Depth to bedrock based on auger refusal where test pits have not been conducted.  
(2) - Long-Term Acceptance Rate based on GPD design flow rate and 3-ft wide trench for full-length conventional absorption field.

**Suitability Code Descriptions:**

A2 - Soil types typically have ability to function as suitable absorption field with proper design, installation and maintenance. If needed, hydraulic conductivity tests could be conducted to optimize absorption rate estimates.  
P - Soils normally considered unsuitable for conventional absorption field, and have high probability of failure.  
F - Due to slow absorption rates, these soils appear poorly suited for conventional absorption fields. These soils should function for drip systems at 8-12 inch depth with a loading rate of 0.05 GPD/SqFt. Additional testing (including additional hydraulic conductivity tests) could be conducted to further determine suitability for a conventional system.  
Rec - Recommendations: 1) A full square footage absorption system (Table 10.1.F GA Manual OCSMS 2019) with equal distribution is recommended (although not required) due to variable site conditions, to avoid exceeding specified loading rates, and to extend absorption field life. 2) Where landscape positions are poor, especially at drainage features and diversions, the area should be avoided and/or site alterations (such as grading, diversion berms, and/or curbs) should be recommended to render areas more suitable. 3) Up to 18 inches of suitable fill soil may be added to provide sufficient cover for absorption field, if needed. 4) To protect the absorption field and avoid amassing the trench surfaces and/or damaging the soil structure the following are required: a) the proposed absorption field area must be protected at all times, especially during construction activities; b) only track type equipment is allowed on the absorption field area to avoid rutting; c) no grading or stockpiling of materials is to be conducted in the absorption field area; and d) the absorption field should be installed during dry weather conditions.

**General Notes:**

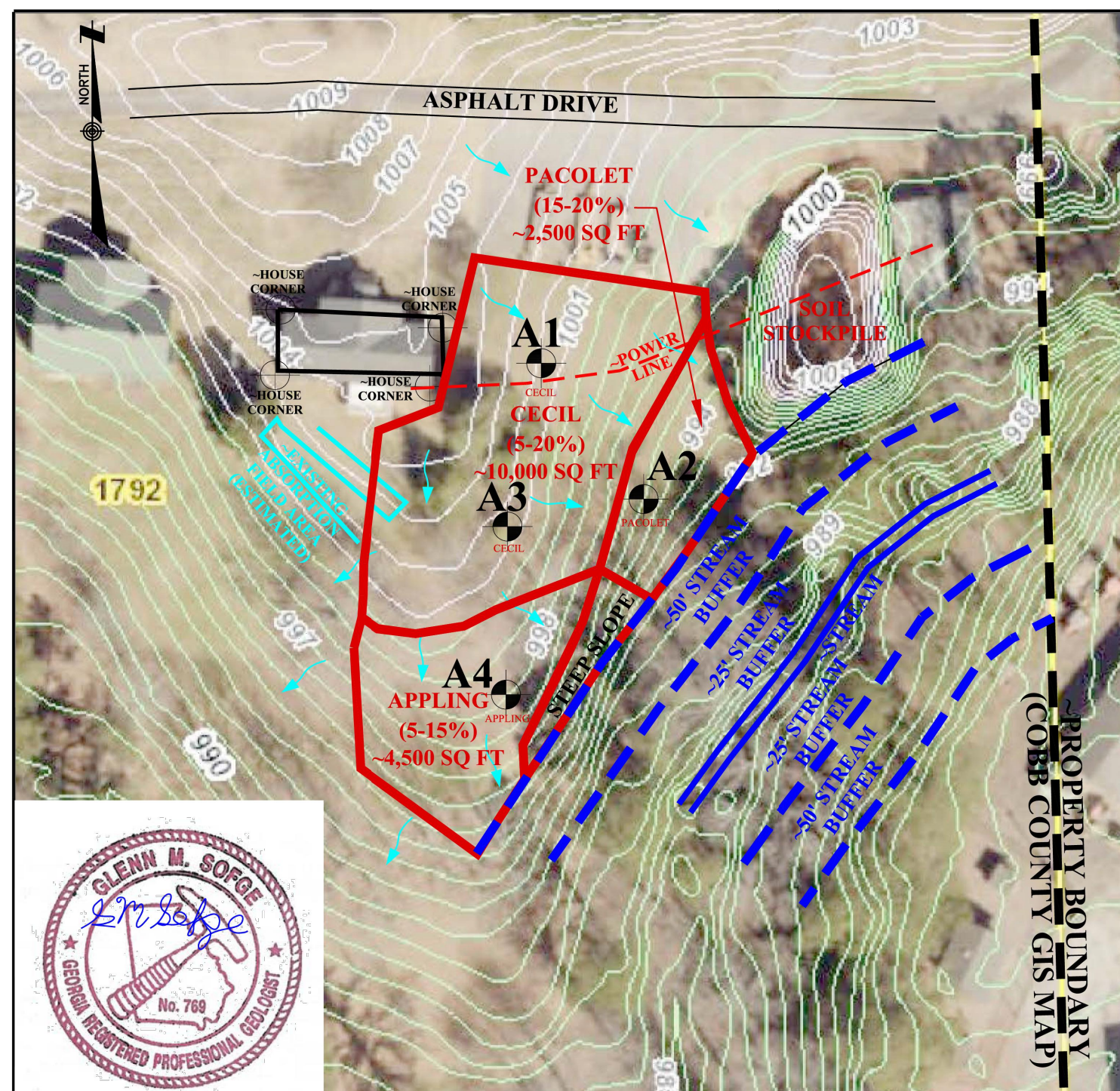
- 1) See Attached Figure 1 for boring locations, and scaled site map.
- 2) Field services conducted on September 19 & October 4, 2022.
- 3) Borings located from selected site features (see Figure 1) using a Trimble Geo7X GPS.
- 4) This soil survey was conducted in general accordance with the Georgia Manual For On-Site Sewage Management Systems, requirements for a Level 3 Soil Survey, and Proposal 22-023A07 with Terms/Conditions.
- 5) This soil survey does not guarantee the performance of any septic system or absorption field installed on the property. Report is void in areas where significant grading or stockpiling occurs after field services, requiring additional testing to confirm suitability.
- 6) Soil boundaries based on limited soil borings, and interpolation between these borings, that meet the minimum density standards for a Level 3 Soil Study. Conditions (such as trash pits and filled areas) may exist on the property that could not be identified within the scope of the assessment or that were not reasonably identifiable from the available information.

Prepared Certified by: *Glen M. Solge*  
Glen M. Solge, P.G.

Date: 07-Oct-2022



AAA Environmental Solutions, Inc. 2865 Wood Park Trace NW, Marietta, GA 30152, 404-275-8491, Office/Fax 770-975-9219  
GSGOF@AES.COM, WWW.AES.COM



**LEGEND**

- A1 BORING NUMBER LOCATION
- APPLYING SOIL SERIES ESTIMATED SLOPE
- ESTIMATED SOIL SERIES BOUNDARY
- TOPOGRAPHIC CONTOUR OR BORING MAP
- PROPERTY BOUNDARY (GIS MAP)
- HYDRAULIC CONDUCTIVITY TEST RESULT AT DEPTH (INCHES) - DATE OBTAINED
- DEFINITIVE TOPOGRAPHIC CONTOUR (BORING MAP)
- AUGER REFUSAL - ROCK, DUFFY (INCHES)
- BASED ON COBB COUNTY 3-D INDEX ELEVATIONS

**NOTES**

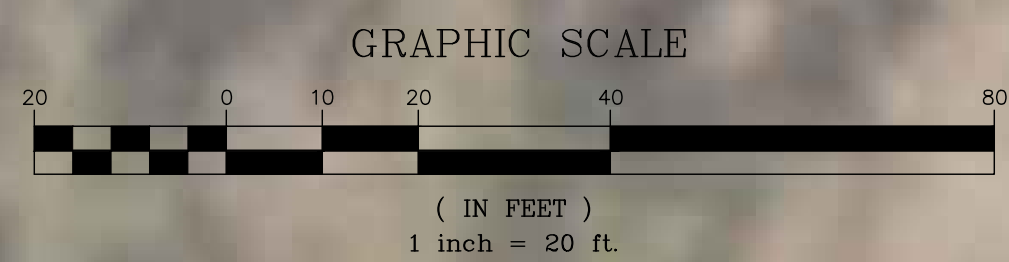
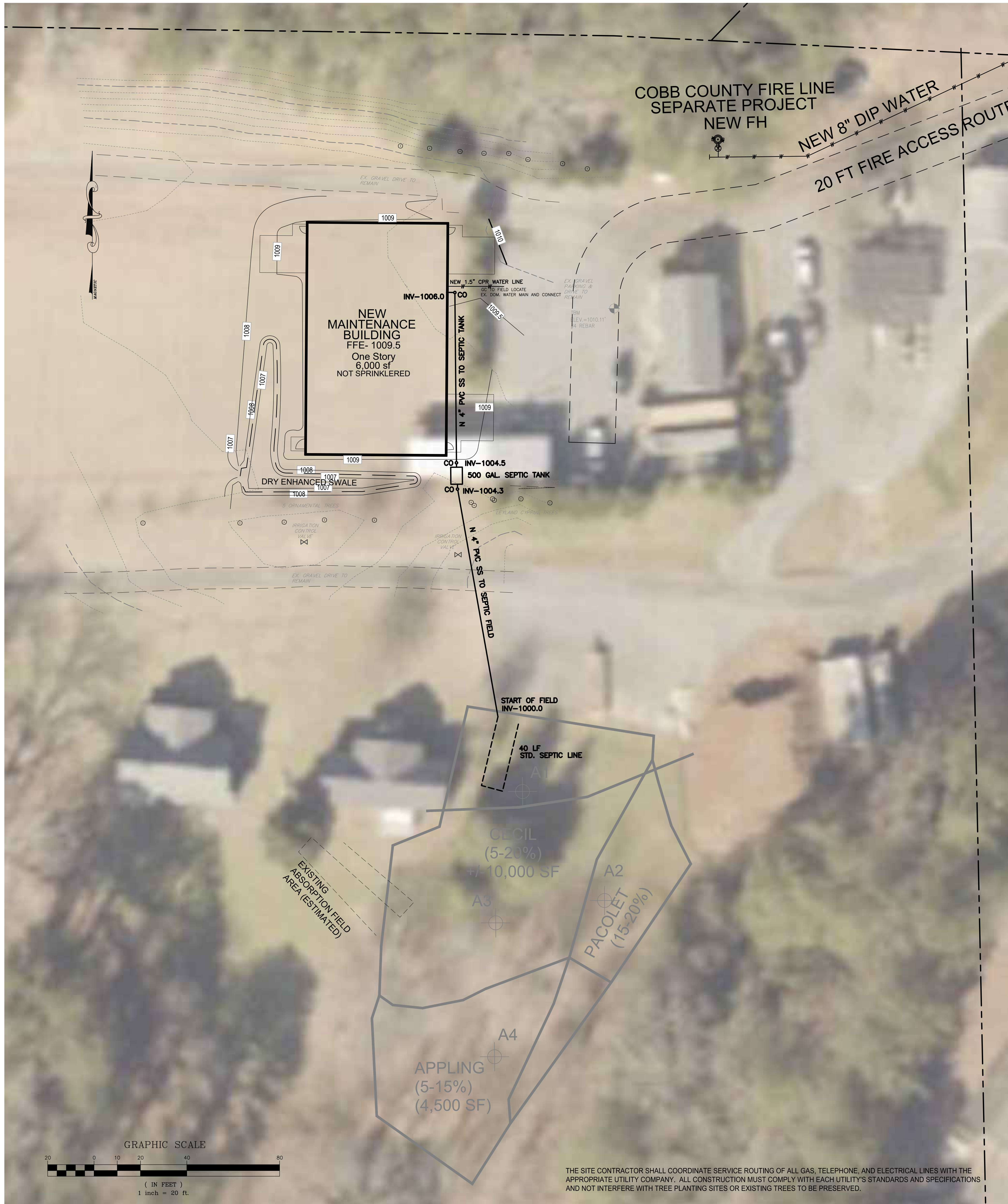
- 1) Soil series boundaries are approximate and based on data interpolation between landscape positions and borings (that meet minimum density standards for Level 3 Soil Survey). Conditions (such as trash pits and filled areas) may exist on the property that could not be identified within the scope of the assessment or that were not reasonably identifiable from the available information. If trash/debris pits or filled areas are encountered, they may be excavated and backfilled with ASTM C-33 sand to render areas suitable for absorption fields.
- 2) Base drawing and topographic contours from Cobb County GIS map, along with field data from Trimble GEO 7X GPS referenced to existing site features. No survey plat was provided for this soil study.
- 3) This soil survey does not guarantee the performance of the septic system or absorption field installed on the property. Report is void in areas where significant grading or stockpiling occurs after testing, and additional testing would be required to re-assess suitability.

**FIGURE 1 - LEVEL 3 SOIL SURVEY FOR:**

Cobb County Parks  
1792 County Services Parkway  
Marietta, Cobb County, Georgia

AAA ENVIRONMENTAL SOLUTIONS, INC.  
2865 WOOD PARK TRACE  
MARIETTA, GA 30152  
PHONE: 404-275-8491  
OFFICE FAX: 770-975-9219  
AES JOB# 22-023A07 OCTOBER 7, 2022

TO THE BEST OF OUR KNOWLEDGE THE PROFESSIONAL ENGINEER STAMPED PLANS SHOWN CONFORMANCE TO ALL GEORGIA STATE AND COBB COUNTY CODES. FURTHER, DESIGN PROFESSIONAL, ARCHITECT & OWNER MAINTAIN THE SOLE RESPONSIBILITY FOR THE DESIGN AND FOR CORRECTING ALL ERRORS, OMISSIONS, PROBLEMS, AND CODE VIOLATIONS (IF ANY) EXPOSED DURING CONSTRUCTION AFTER AUTHORIZATION BY COBB COUNTY.



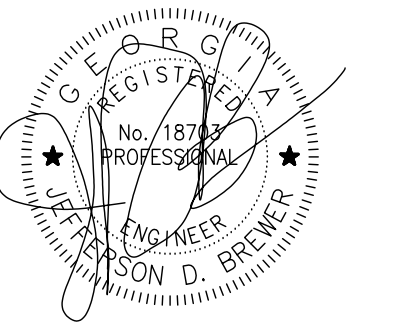
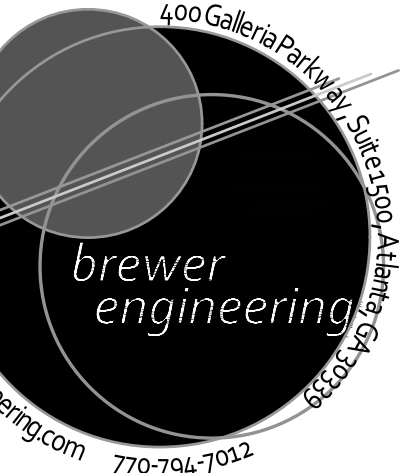
THE SITE CONTRACTOR SHALL COORDINATE SERVICE ROUTING OF ALL GAS, TELEPHONE, AND ELECTRICAL LINES WITH THE APPROPRIATE UTILITY COMPANY. ALL CONSTRUCTION MUST COMPLY WITH EACH UTILITY'S STANDARDS AND SPECIFICATIONS AND NOT INTERFERE WITH TREE PLANTING SITES OR EXISTING TREES TO BE PRESERVED.

**Septic System Notes:**

1. NO SHOWERS, LAUNDRY FACILITIES OR FLOOR DRAINS ARE LOCATED IN THIS DESIGN.
2. PUBLIC WATER SERVICES SITE.
3. GRADING CAN AFFECT SOIL SUITABILITY FOR FIELD LINES AND MAY VOID THE USE OF A LOT FOR AN ON-SITE SEWAGE MANAGEMENT SYSTEM. FURTHER SOIL STUDY MAY BE REQUIRED PRIOR TO ISSUANCE OF A SEPTIC TANK PERMIT OR APPROVAL OF AN ON-SITE SEWAGE MANAGEMENT SYSTEM.
4. TRASH BURIAL PIT LOCATIONS MUST BE REPORTED TO THE COBB COUNTY ENVIRONMENTAL HEALTH DEPARTMENT PRIOR TO ISSUANCE OF SEPTIC TANK PERMIT.
5. BOD5 AND TSS NOT TO EXCEED 200 mg/l
6. GENERAL CONTRACTOR MUST INSTALL, CONSTRUCT AND PROVIDE THE ENTIRE ON-SITE SEWAGE MANAGEMENT SYSTEM SHOWN ON THESE PLANS (PIPING, DOSING TANKS, GREASE TRAPS, SEPTIC TANKS, DISTRIBUTION BOXES, ABSORPTION FIELD, ETC.) IN ACCORDANCE AND COMPLIANCE WITH THE GEORGIA DEPARTMENT OF HUMAN RESOURCES DIVISION OF PUBLIC HEALTH "MANUAL FOR ON-SITE SEWAGE MANAGEMENT SYSTEM" MOST CURRENT EDITION.

**SEPTIC SYSTEM CALCULATIONS**

12 EMPLOYEES x 5 GPD = 60 GPD  
ABSORPTION FIELD CALCULATION = 1/5 (45) (60) = 81 SF REQUIRED  
MIN. STANDARD FIELD = 81 SF / 3 = 27 LF STANDARD FIELD REQUIRED  
TOTAL STANDARD FIELD PROVIDED 40 FT



**REVISIONS**

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Suite 300  
Marietta, GA 30060

**Cobb County Parks**  
**New Maintenance Building**  
1792 County Services Parkway  
Marietta, GA 30068

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PROJECT NO.: 22068  
DATE: 12-16-2022  
SHEET TITLE:

**UTILITY PLAN**

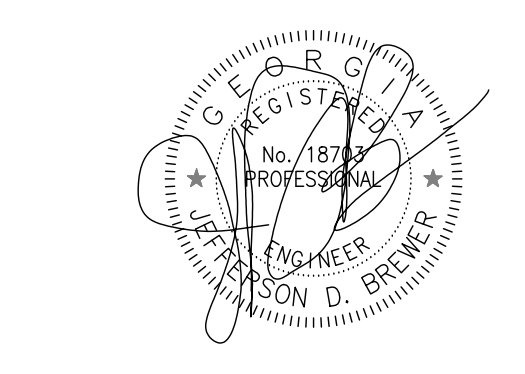
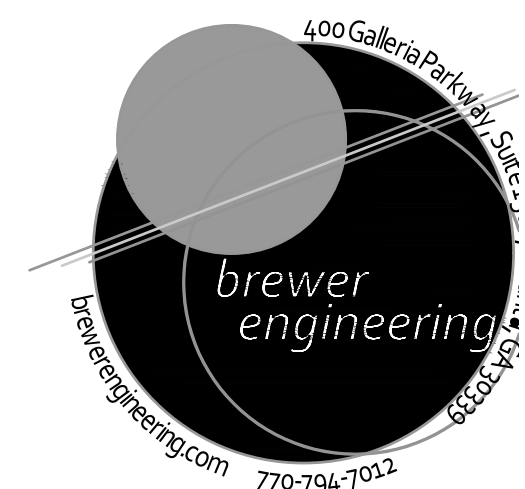
SHEET NO.:

C-5.0



Know what's below.  
Call before you dig.  
Dial 811  
Or Call 800-282-7411

CONTRACTOR MUST CALL THE UTILITY PROTECTION CENTER \*CALL BEFORE YOUR DIG\* TELEPHONE NUMBER (800-282-7411) FOUR (4) DAYS BEFORE EXCAVATION.



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NOT ISSUED FOR CONSTRUCTION

PROJECT NO.: 2206B

DATE: 12-16-2022

SHEET TITLE:

INITIAL PHASE EROSION CONTROL PLAN

SHEET NO.:

C-6.2

EROSION CONTROL SYMBOLS LEGEND		
STRUCTURAL PRACTICES		
CODE	PRACTICE	DESCRIPTION
Cd	CHECKDAM	A SMALL TEMPORARY BARRIER OR DAM CONSTRUCTED ACROSS A SMALL DRAINAGE DITCH OR AREA OF CONCENTRATED FLOW
Ch	CHANNEL STABILIZATION	IMPROVING CONSTRUCTION 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 REMOVING MUD FROM TIRES, THEREBY PROTECTING PUBLIC STREETS.
Cr	CONSTRUCTION ROAD STABILIZATION	A TRAVELWAY CONSTRUCTED AS PART OF A CONSTRUCTION PLAN INCLUDING ACCESS ROADS, SUBVERSION 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.
On1	TEMPORARY DOWNSPIN STRUCTURE	A FLEXIBLE CONDUIT OF HEAVY-DUTY FABRIC OR OTHER MATERIAL DESIGNED TO SAFELY CONDUCT SURFACE RUNOFF DOWN A SLOPE.
On2	PERMANENT DOWNSPIN STRUCTURE	A PAVED CHUTE, PIPE, SECTIONAL CONDUIT OR SIMILAR MATERIAL DESIGNED TO SAFELY CONDUCT SURFACE RUNOFF DOWN A SLOPE.
Fr	FILTER RING	A TEMPORARY STONE BARRIER CONSTRUCTED AT 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 SOLE WOULD BE SUFFICIENT FOR THE RUNNING WATER TO FORM GULLIES.
Lv	LEVEL SPREADER	A STRUCTURE TO CONVERT CONCENTRATED FLOW OF WATER INTO LESS ERODIVE SHEET FLOW, THIS SHOULD BE CONSTRUCTED ONLY ON UNDISTURBED SOILS.
Rd	ROCK FILTER DAM	A PERMANENT OR TEMPORARY STONE FILTER 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 STRUCTURE WILL REQUIRE SPECIAL DESIGN.
Rt	RETRO FITTING	A DEVICE OR STRUCTURE PLACED IN FRONT OF A PERMANENT STORMWATER RETENTION 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	INLET SEDIMENT TRAP	AN IMPROVING AREA CREATED BY EXCAVATING AROUND A STORMWATER DROP INLET. THE EXCAVATED AREA WILL BE FILLED AND STABILIZED OR COMPLETED 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. THIS FEATURE DISTINGUISHES A TEMPORARY SEDIMENT TRAP FROM A TEMPORARY SEDIMENT BASIN BY THE LACK OF A POLE OR RISER.
Sk	FLOATING SURFACE SUMMER	A BUOYANT DEVICE THAT RELEASES/DRAINS WATER FROM THE SURFACE OF SEDIMENT PONDS, TRAPS, OR BASINS AT A CONTROLLED RATE OF FLOW.
Spb	SEEP BERM	A LINEAR CONTROL DEVICE CONSTRUCTED AS A DIVERSION PERPENDICULAR TO THE DIRECTION OF RUNOFF TO ENHANCE DISPERSION AND INFILTRATION, WHILE CREATING MULTIPLE SEDIMENTATION CHAMBERS WITH THE DEVELOPMENT OF INTERMEDIATE DIKES.
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 DEPRESSIONS ON A CONTIGUOUS OR SLOPES LEFT IN A ROUGHENED CONDITION AFTER GRADING.
Tc	TURBIDITY CURTAIN	A FLOATING OR STAGED 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 STOPPING OFF THE MORE FERTILE SOIL, STORING IT, THEN SPREADING IT OVER THE DISTURBED AREA AFTER COMPLETION OF CONSTRUCTION ACTIVITIES.
Tr	TREE PROTECTION	TO PROTECT DESIRABLE TREES FROM INJURY DURING CONSTRUCTION ACTIVITY.
Wt	VEGETATED WATERWAY	PAVED OR VEGETATED WATER OUTLETS FOR DIVERSIONS, TERRACES, BERMS, DIKES OR SIMILAR STRUCTURES.
VEGETATIVE PRACTICES		
Bf	BUFFER ZONE	STRIP OF UNDISTURBED ORIGINAL VEGETATION, ENHANCED OR RESTORED EXISTING VEGETATION OR THE REESTABLISHMENT OF VEGETATION SURROUNDING AN AREA OF DISTURBANCE OR BORDERS STREAMS.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)	PLANTING VEGETATION ON DUNES THAT ARE DEMOLISHED, ARTIFICIALLY CONSTRUCTED, OR RE-ENHANCED.
De1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)	ESTABLISHING TEMPORARY PROTECTION FOR DISTURBED AREAS WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDING COVER.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)	ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS ON DISTURBED AREAS.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)	ESTABLISHING A PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, OR LEGUMES ON DISTURBED AREAS.
Ds4	DISTURBED AREA STABILIZATION (WITH SOODING)	A PERMANENT VEGETATIVE COVER USING SODS ON HIGHLY ERODIBLE OR CRITICALLY ERODED LANDS.
Du	DUST CONTROL ON DISTURBED AREAS	CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITE, ROADWAYS AND SIMILAR SITES.
Fl-Cc	FLOCCULANTS AND COAGULANTS	SUBSTANCE FORMULATED TO ASSIST IN THE SOLIDS/LIQUID SEPARATION OF SUSPENDED PARTICLES IN SOLUTION.
Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)	THE USE OF READILY AVAILABLE NATIVE PLANT MATERIALS TO MAINTAIN AND ENHANCE STREAMBANKS, OR TO PREVENT OR 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	TACKIFIERS AND BINDERS	SUBSTANCE USED TO ANCHOR STRAW OR HAY MULCH BY CAUSING THE ORGANIC MATERIAL TO BIND TOGETHER.

### Erosion Control Notes:

- THE CONSTRUCTION EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC STREETS.
- SILT FENCES AND HAY BALE BARRIERS SHALL BE CLEANED OR REPLACED AND MAINTAINED IN FUNCTIONAL CONDITION UNTIL PERMANENT EROSION CONTROL MEASURES ARE ESTABLISHED.
- SILT FENCE FABRIC SHALL BE COMPRISED OF GA DOT QUALIFIED PRODUCTS LIST 36.
- ALL GRASSING SHALL BE IN ACCORDANCE WITH CHAPTER 6, SECTION III "VEGETATION PRACTICES" OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE TO THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
- THE CONTRACTOR SHALL CLEAN OUT ALL ACCUMULATED SILT FROM THE DETENTION AND SEDIMENT PONDS ONCE ALL DISTURBED AREAS ARE STABILIZED WITH PERMANENT VEGETATION. EROSION CONTROL DEVICES WILL BE IN PLACE BEFORE SITE DISTURBANCE AND WILL BE PERIODICALLY INSPECTED AND REPAIRED OR RESTORED AS NEEDED TO FUNCTION PROPERLY UNTIL PERMANENT MEASURES ARE ESTABLISHED AND PROJECT IS COMPLETE. CONSTRUCTION EXITS AND SILT FENCES SHALL BE RETOPPED OR CLEANED AS SILT REDUCES THEIR EFFECTIVENESS.
- ANY ADDITIONAL CONSTRUCTION OTHER THAN SHOWN ON THIS PLAN WILL REQUIRE SEPARATE AND ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AND APPROVAL.
- TEMPORARY VEGETATION AND/OR HEAVY MULCH WILL BE USED TO STABILIZE AREAS. IN NO CASE SHALL A SITE BE LEFT BARE FOR MORE THAN 14 DAYS.
- ALL DISTURBED AREAS WILL BE PERMANENTLY LANDSCAPED AND GRASSED AS SOON AS CONSTRUCTION PHASES PERMIT.
- ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED TO CONTROL EROSION AS DETERMINED NECESSARY BY THE GOVERNING JURISDICTION SITE INSPECTORS.
- CUT AND FILL SLOPES NOT TO EXCEED 2H:1V.
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### Soil Legend:

FS1 - FACILELY SANDY CLAY LOAM, 6 TO 10 PERCENT SLOPES, SEVERELY ERODED  
 FC2 - FACILELY SANDY LOAM, 1 TO 6 PERCENT SLOPES, MODERATELY ERODED

**Vegetative Plan**  
 APPLY Ds2 (Temporary Grassing) AS SOON AS ROUGH GRADING IS COMPLETE.  
 APPLY Ds3 (Permanent Vegetation) ONCE FINAL GRADE IS COMPLETE.

**Ds2** TEMPORARY SEEDING FOR COOL SEASON WINTER RYE, 4 lb/1000 SQ. FT., SEEDED 9/15-2/15  
 WARM SEASON KENTUCKY 31 FESCUE, 4lb/1000 sq.ft., SEEDED 4/15-7/1  
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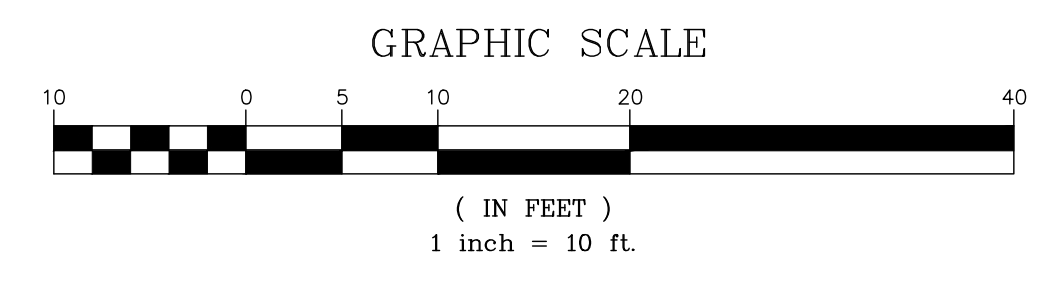
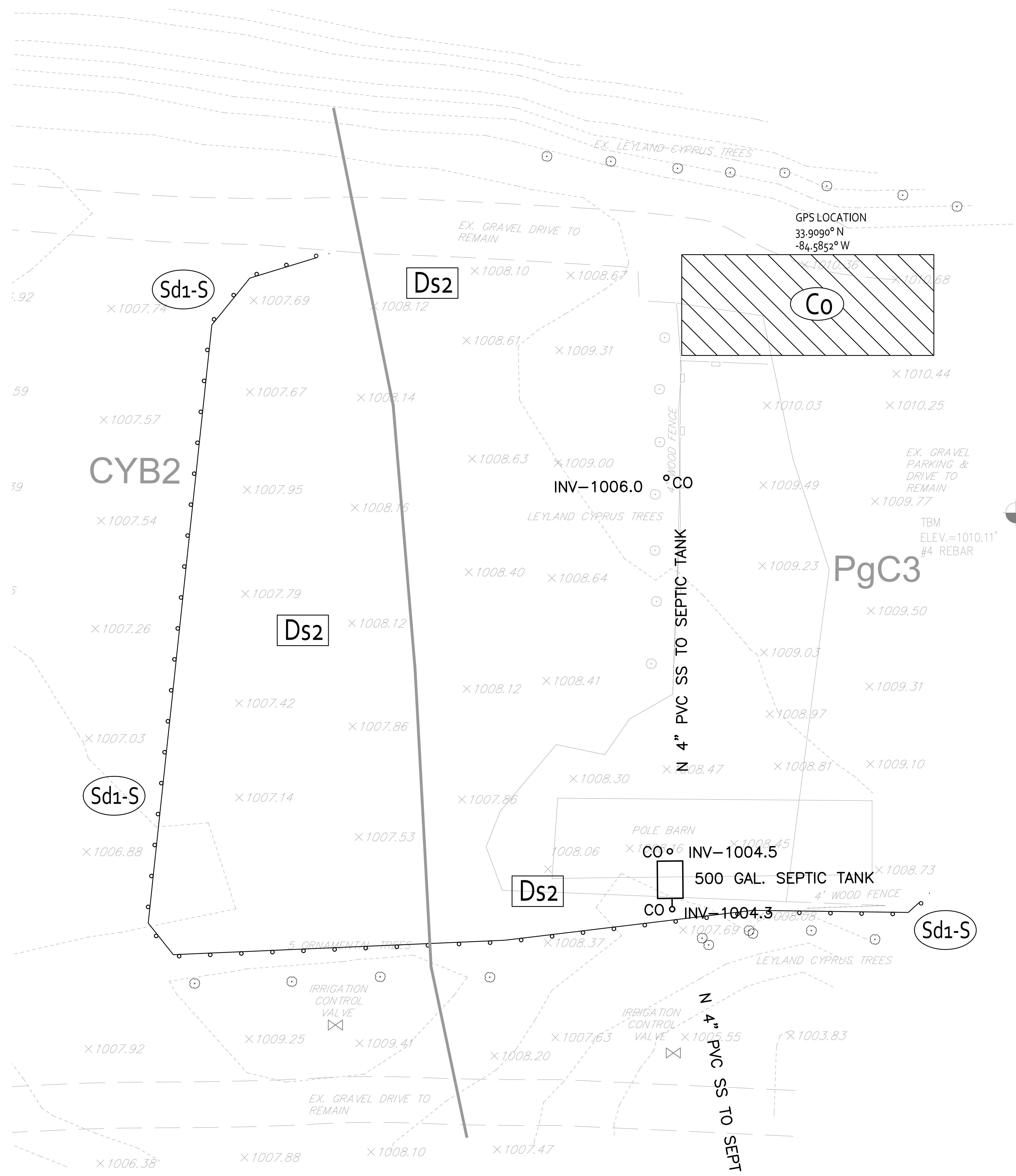
**Ds3** PERMANENT SEEDING, COOL SEASON COMMON BERMUUDA, 2lb/1000 sq.ft., SEED 9/1-10/15, HULLED BERMUUDA (WARM SEASON) SEEDED 4/1-6/1.  
 UNHULLED BERMUUDA (COOL SEASON) 10/1-3/1

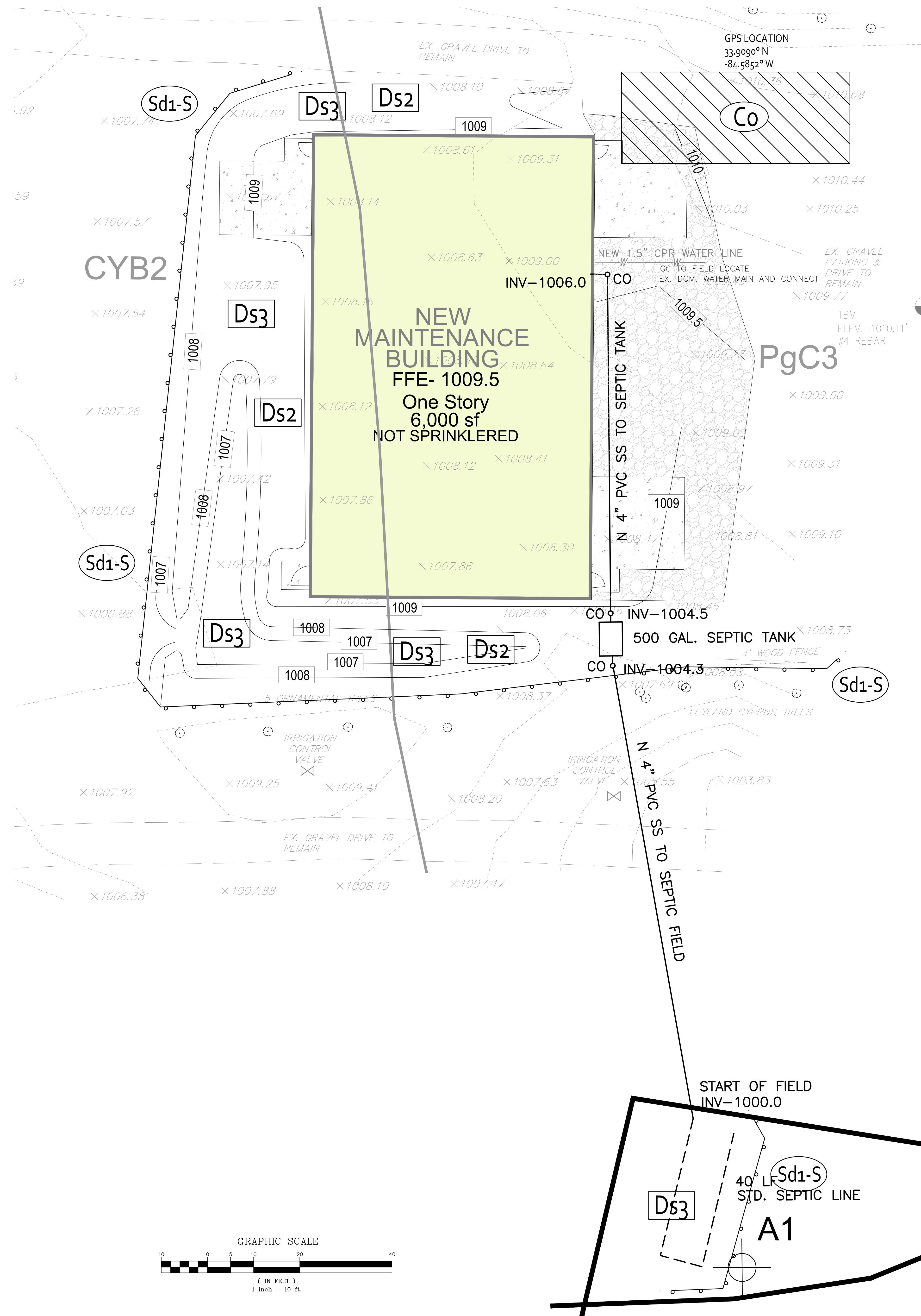
**Ds1** MULCHING USE STRAW OR HAY 2.5 TONS/ACRE (USE ON STEEP SLOPES OR DURING POOR GROWING SEASONS).

THERE ARE NO STATE WATERS WITHIN 200 FEET OF PROJECT.  
 THIS PHASE OF DEVELOPMENT DRAINS TO COUNTY FARM LAKE IN THE OLLEY CREEK BASIN

NO WETLANDS IN DISTURBED AREA FOR PROJECT  
 THIS PROJECT DOES NOT ENCRUCH INTO 25 FT. STREAM BUFFERS  
 TOTAL DISTURBED AREA (PROJECT) = 0.30 ACRES

**GSWCC** Georgia Soil and Water Conservation Commission  
**Jefferson D Brewer**  
 Level II Certified Design Professional  
 Certification Number: 000009382  
 Issued: 04/20/2021 Expires: 04/20/2024





### Erosion Control Notes:

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2. SILT FENCES AND HAY BALE BARRIERS SHALL BE CLEANED OR REPLACED AND MAINTAINED IN FUNCTIONAL CONDITION UNTIL PERMANENT EROSION CONTROL MEASURES ARE ESTABLISHED.
3. SILT FENCE FABRIC SHALL BE COMPRISED OF GA DOT QUALIFIED PRODUCTS LIST 36.
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5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE TO THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
6. THE CONTRACTOR SHALL CLEAN OUT ALL ACCUMULATED SILT FROM THE DETENTION AND SEDIMENT PONDS ONCE ALL DISTURBED AREAS ARE STABILIZED WITH PERMANENT VEGETATION. EROSION CONTROL DEVICES WILL BE IN PLACE BEFORE SITE DISTURBANCE AND WILL BE PERIODICALLY INSPECTED AND REPAIRED OR RESTORED AS NEEDED TO FUNCTION PROPERLY UNTIL PERMANENT MEASURES ARE ESTABLISHED AND PROJECT IS COMPLETE. CONSTRUCTION EXITS AND SILT FENCES SHALL BE RETOPPED OR CLEANED AS SILT REDUCES THEIR EFFECTIVENESS.
7. ANY ADDITIONAL CONSTRUCTION OTHER THAN SHOWN ON THIS PLAN WILL REQUIRE SEPARATE AND ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AND APPROVAL.
8. TEMPORARY VEGETATION AND/OR HEAVY MULCH WILL BE USED TO STABILIZE AREAS. IN NO CASE SHALL A SITE BE LEFT BARE FOR MORE THAN 14 DAYS.
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**Vegetative Plan**

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 WARM SEASON KENTUCKY 31 FESCUE, 4lb/1000 sq.ft., SEEDED 4/15-7/1  
 TEMPORARY GRASSING MUST BE TILLED-UNDER AND SOIL PREPARED FOR PERMANENT BERMUDA GRASSING

**Ds3** PERMANENT SEEDING, COOL SEASON COMMON BERMUDA, 2lb/1000 sq.ft., SEEDED 9/1-10/15. HULLED BERMUDA (WARM SEASON) SEEDED 4/1-6/1.  
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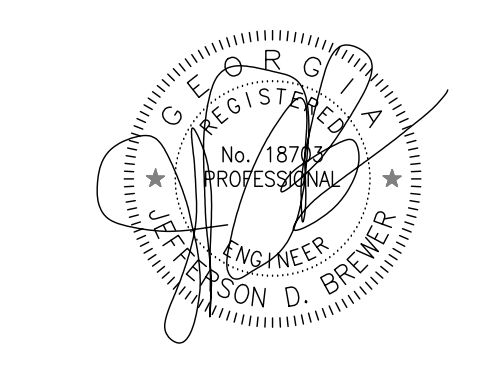
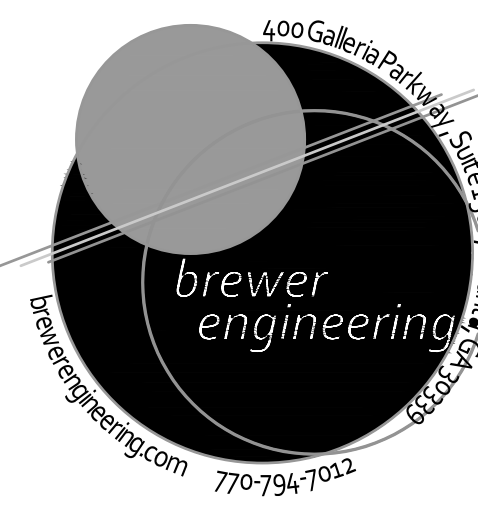
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TOTAL DISTURBED AREA (PROJECT) = 0.30 ACRES

EROSION CONTROL SYMBOLS LEGEND		
STRUCTURAL PRACTICES		
CODE	PRACTICE	DESCRIPTION
Co	CHECKDAM	A SMALL TEMPORARY BARRIER OR DAM CONSTRUCTED ACROSS A CHANNEL OR DITCH TO PREVENT CONCENTRATED FLOW
Ch	CHANNEL STABILIZATION	IMPROVED CONSTRUCTION OR STABILIZING AN OPEN CHANNEL, EXISTING BREAK OR DITCH.
Co	CONSTRUCTION EXIT	A CRUSHED STONE PAD LOCATED AT THE CONSTRUCTION SITE EXIT TO PROVIDE A PLACE FOR REMOVING MUD FROM TIRES THEREBY PROTECTING PUBLIC STREETS.
Cr	CONSTRUCTION ROAD STABILIZATION	A TRAILWAY CONSTRUCTED AS PART OF A CONSTRUCTION PLAN INCLUDING ACCESS ROADS, SUBVERSION 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.
On1	TEMPORARY DOWNSPAN STRUCTURE	A FLEXIBLE CONDUIT OF HEAVY-DUTY FABRIC OR OTHER MATERIAL DESIGNED TO SAFELY CONDUCT SURFACE RUNOFF DOWN A SLOPE. THIS IS TEMPORARY AND INEXPENSIVE.
On2	PERMANENT DOWNSPAN STRUCTURE	A RIGID CHUTE, PIPE, SECTIONAL CONDUIT OR SIMILAR MATERIAL DESIGNED TO SAFELY CONDUCT SURFACE RUNOFF DOWN A SLOPE.
Fr	FILTER RING	A TEMPORARY STONE BARRIER CONSTRUCTED AT STORM DRAIN INLETS AND POND OUTLETS.
Ca	CAGON	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 ERODIVE SHEET FLOW. THIS SHOULD BE CONSTRUCTED ONLY ON UNDISTURBED SOILS.
Rd	ROCK FILTER DAM	A PERMANENT OR TEMPORARY STONE FILTER 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 STRUCTURE WILL REQUIRE SPECIAL DESIGN.
Rt	RETRO FITTING	A DEVICE OR STRUCTURE PLACED IN FRONT OF A PERMANENT STORMWATER DETENTION 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	INLET SEDIMENT TRAP	AN IMPROVING AREA CREATED BY EXCAVATING AROUND A STORMWATER INLET. THE EXCAVATED AREA WILL BE FILLED AND STABILIZED OR COMPLETED BY 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. THIS FEATURE DISTINGUISHES A TEMPORARY SEDIMENT TRAP FROM A TEMPORARY SEDIMENT BASIN BY THE LACK OF A POLE OR RISER.
Sk	FLOATING SURFACE SKIMMER	A BUOYANT DEVICE THAT RELEASES/DRAINS WATER FROM THE SURFACE OF SEDIMENT PONDS, TRAPS, OR BASINS AT A CONTROLLED RATE OF FLOW.
Spb	SEEP BERM	LINEAR CONTROL DEVICE CONSTRUCTED AS A DIVERSION PERPENDICULAR TO THE DIRECTION OF RUNOFF TO ENHANCE DISPERSION AND INFILTRATION, WHILE CREATING MULTIPLE SEDIMENTATION CHAMBERS WITH THE EMPLOYMENT OF INTERMEDIATE DIKES.
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 DEPRESSIONS ON A CONTOUR OR SLOPES LEFT IN A ROUGHENED CONDITION AFTER GRADING.
Tc	TURBIDITY CURTAIN	A FLOATING OR STAVED 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 STOPPING OFF THE MORE FERTILE SOIL, STORING IT, THEN SPREADING IT OVER THE DISTURBED AREA AFTER COMPLETION OF CONSTRUCTION ACTIVITIES.
Tr	TREE PROTECTION	TO PROTECT DESIRABLE TREES FROM INJURY DURING CONSTRUCTION ACTIVITY.
Wt	VEGETATED WATERWAY	PAVED OR VEGETATED WATER OUTLETS FOR DIVERSIONS, TERRACES, BERMS, DIKES OR SIMILAR STRUCTURES.
VEGETATIVE PRACTICES		
Bf	BUFFER ZONE	STRIP OF UNDISTURBED ORIGINAL VEGETATION, DIMINISHED OR RESTORED EXISTING VEGETATION OR THE REESTABLISHMENT OF VEGETATION SURROUNDING AN AREA OF DISTURBANCE OR ROADSIDE STREAMS.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)	PLANTING VEGETATION ON DUNES THAT ARE DEMOLISHED, ARTIFICIALLY CONSTRUCTED, OR RE-NOURISHED.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)	ESTABLISHING TEMPORARY PROTECTION FOR DISTURBED AREAS WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDING COVER.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP. SEEDING)	ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS ON DISTURBED AREAS.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM. SEEDING)	ESTABLISHING A PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, OR LEGUMES ON DISTURBED AREAS.
Ds4	DISTURBED AREA STABILIZATION (SOODING)	A PERMANENT VEGETATIVE COVER USING SODS ON HIGHLY ERODABLE OR CRITICALLY ERODED LANDS.
Du	DUST CONTROL ON DISTURBED AREAS	CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITE, ROADWAYS AND SIMILAR SITES.
Fl-Cc	FLOCCULANTS AND COAGULANTS	SUBSTANCE FORMULATED TO ASSIST IN THE SOLIDS/LIQUID SEPARATION OF SUSPENDED PARTICLES IN SOLUTION.
Sb	STREAMBANK STABILIZATION (USING PERM. VEGETATION)	THE USE OF READILY AVAILABLE NATIVE PLANT MATERIALS TO MAINTAIN AND ENHANCE STREAMBANKS, OR TO PREVENT OR 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	TACKIFIERS AND BINDERS	SUBSTANCE USED TO ANCHOR STRAW OR HAY MULCH BY CAUSING THE ORGANIC MATERIAL TO BIND TOGETHER.



**REVISIONS**

NO.	DATE	DESCRIPTION
1-13-21		PERMIT PACKAGE

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Owner / Developer  
 Cobb County  
 100 Cherokee Street  
 Suite 300  
 Marietta, GA 30060

Cobb County Parks  
 New Maintenance Building  
 1792 County Services Parkway  
 Marietta, GA 30068

**NOT ISSUED FOR CONSTRUCTION**

PROJECT NO.: 2206B  
 DATE: 12-16-2022  
 SHEET TITLE:

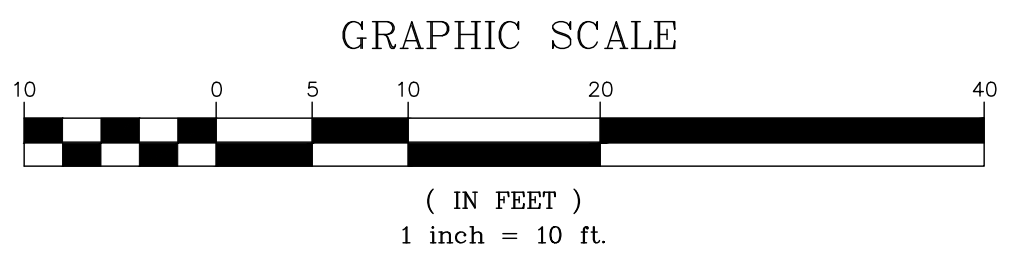
INTERMEDIATE PHASE EROSION CONTROL PLAN

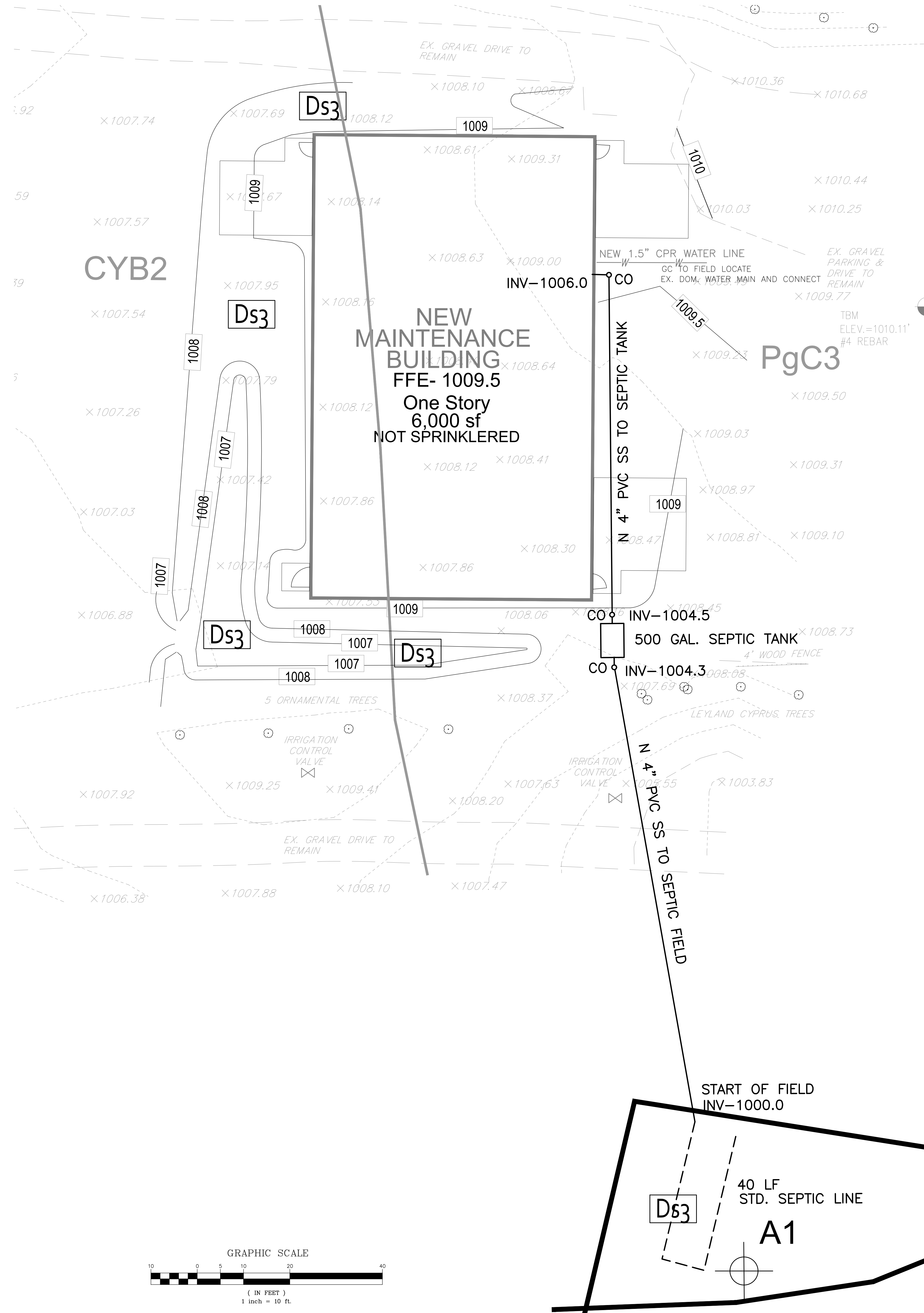
SHEET NO.: C-6.3

**GSWCC** Georgia State and Water Conservation Commission

**Jefferson D Brewer**  
 Level II Certified Design Professional

CERTIFICATION NUMBER: 000009382  
 ISSUED: 04/20/2021 EXPIRES: 04/20/2024





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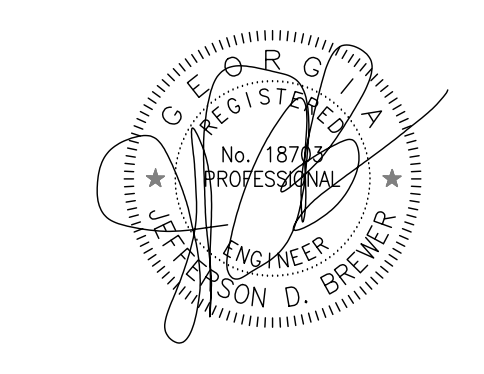
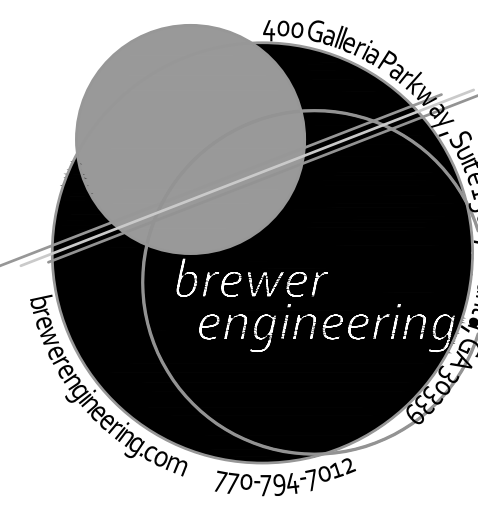
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CODE	PRACTICE	DESCRIPTION
Cd	CHECKDAM	A SMALL TEMPORARY BARRIER OR DAM CONSTRUCTED ACROSS A SMALL DRAINAGE DITCH OR AREA OF CONCENTRATED FLOW
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Co	CONSTRUCTION EXIT	A CRUSHED STONE PAD LOCATED AT THE CONSTRUCTION SITE EXIT TO PROVIDE A PLACE FOR REMOVING MUD FROM TIRES THEREBY PROTECTING PUBLIC STREETS.
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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.
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Fr	FILTER RING	A TEMPORARY STONE BARRIER CONSTRUCTED AT STORM DRAIN INLETS AND POND OUTLETS.
Ga	GABION	ROCK FILTER BASKETS WHICH ARE HAND-PLACED STRUCTURES FORMING SOIL STABILIZING STRUCTURES.
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Lv	LEVEL SPREADER	A STRUCTURE TO CONVERT CONCENTRATED FLOW OF WATER INTO LESS ERODIVE SHEET FLOW. THIS SHOULD BE CONSTRUCTED ONLY ON UNDISTURBED SOILS.
Rd	ROCK FILTER DAM	A PERMANENT OR TEMPORARY STONE FILTER 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 RETENTION 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	INLET SEDIMENT TRAP	AN IMPROVING AREA CREATED BY EXCAVATING AROUND A STORMWATER INLET. THE EXCAVATED AREA WILL BE FILLED AND STABILIZED OR COMPLETED 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 BEFORE IT REACHES A WATERWAY. A TEMPORARY SEDIMENT TRAP FROM A TEMPORARY SEDIMENT BASIN IS THE LACK OF A POLE OR RISER.
Sk	FLOATING SURFACE SKIMMER	A BUOYANT DEVICE THAT RELEASES/DRAINS WATER FROM THE SURFACE OF SEDIMENT POND, TRAPS, OR BASKS AT A CONTROLLED RATE OF FLOW.
Spb	SEEP BERM	A LINEAR CONTROL DEVICE CONSTRUCTED AS A DIVERSION PERPENDICULAR TO THE DIRECTION OF RUNOFF TO ENHANCE DISPERSION AND INFILTRATION, WHILE CREATING MULTIPLE SEDIMENTATION CHAMBERS WITH THE DRAINAGE OF INTERMEDIATE DIKES.
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 BRPAP CHANNEL AT THE OUTLET OF A STORM DRAIN SYSTEM PREVENTING EROSION FROM THE CONCENTRATED RUNOFF.
Su	SURFACE ROUGHENING	A ROUGH SOIL SURFACE WITH HORIZONTAL DEPRESSIONS ON A CONTOUR OR SLOPES LEFT IN A ROUGHENED CONDITION AFTER GRADING.
Tc	TURBIDITY CURTAIN	A FLOATING OR STAKED 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 STOPPING OFF THE MORE FERTILE SOIL, STORING IT, THEN SPREADING IT OVER THE DISTURBED AREA AFTER COMPLETION OF CONSTRUCTION ACTIVITIES.
Tr	TREE PROTECTION	TO PROTECT DESIRABLE TREES FROM INJURY DURING CONSTRUCTION ACTIVITY.
Wt	VEGETATED WATERWAY	PAVED OR VEGETATED WATER OUTLETS FOR DIVERSIONS, TERRACES, BERMS, DIKES OR SIMILAR STRUCTURES.
VEGETATIVE PRACTICES		
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 (WITH VEGETATION)	PLANTING VEGETATION ON DUNES THAT ARE DEMOLISHED, ARTIFICIALLY CONSTRUCTED, OR RE-ENHANCED.
De1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)	ESTABLISHING TEMPORARY PROTECTION FOR DISTURBED AREAS WHERE SEEDINGS MAY NOT HAVE A SUITABLE GROWING SEASON TO PRODUCE AN EROSION RETARDING COVER.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP. SEEDING)	ESTABLISHING A TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS ON DISTURBED AREAS.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM. SEEDING)	ESTABLISHING A PERMANENT VEGETATIVE COVER SUCH AS TREES, SHRUBS, VINES, GRASSES, OR LEGUMES ON DISTURBED AREAS.
Ds4	DISTURBED AREA STABILIZATION (SOODING)	A PERMANENT VEGETATIVE COVER USING SODS ON HIGHLY ERODIBLE OR CRITICALLY ERODED LANDS.
Du	DUST CONTROL ON DISTURBED AREAS	CONTROLLING SURFACE AND AIR MOVEMENT OF DUST ON CONSTRUCTION SITE, ROADWAYS AND SIMILAR SITES.
Fl-Cc	FLOCCULANTS AND COAGULANTS	SUBSTANCE FORMULATED TO ASSIST IN THE SOLIDS/LIQUID SEPARATION OF SUSPENDED PARTICLES IN SOLUTION.
Sb	STREAMBANK STABILIZATION (USING PERM. VEGETATION)	THE USE OF READILY AVAILABLE NATIVE PLANT MATERIALS TO MAINTAIN AND ENHANCE STREAMBANKS, OR TO PREVENT OR 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	TACKIFIERS AND BINDERS	SUBSTANCE USED TO ANCHOR STRAW OR HAY MULCH BY CAUSING THE ORGANIC MATERIAL TO BIND TOGETHER.



**REVISIONS**

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 Suite 300  
 Marietta, GA 30060

Cobb County Parks  
 New Maintenance Building  
 1792 County Services Parkway  
 Marietta, GA 30068

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PROJECT NO.: 22068

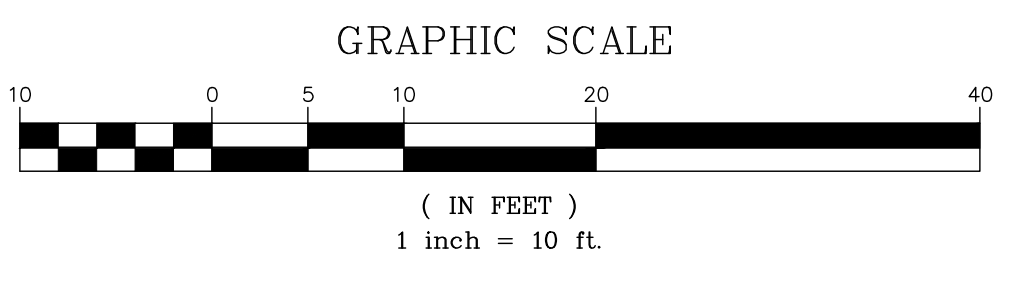
DATE: 12-16-2022

SHEET TITLE:

FINAL PHASE EROSION CONTROL PLAN

SHEET NO.:

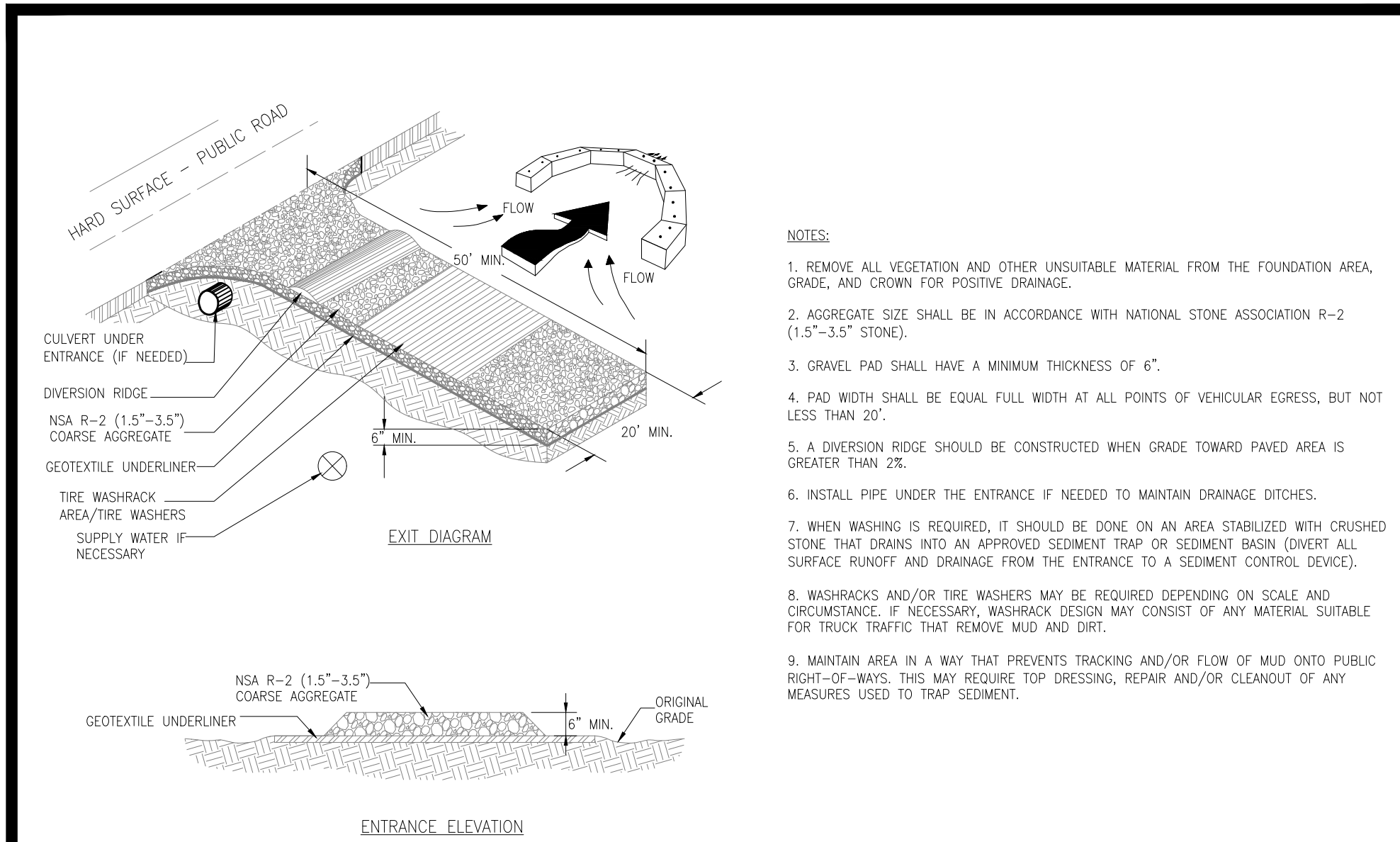
C-6.4



**GSWCC** Georgia Soil and Water Conservation Commission

**Jefferson D Brewer**  
 Level II Certified Design Professional

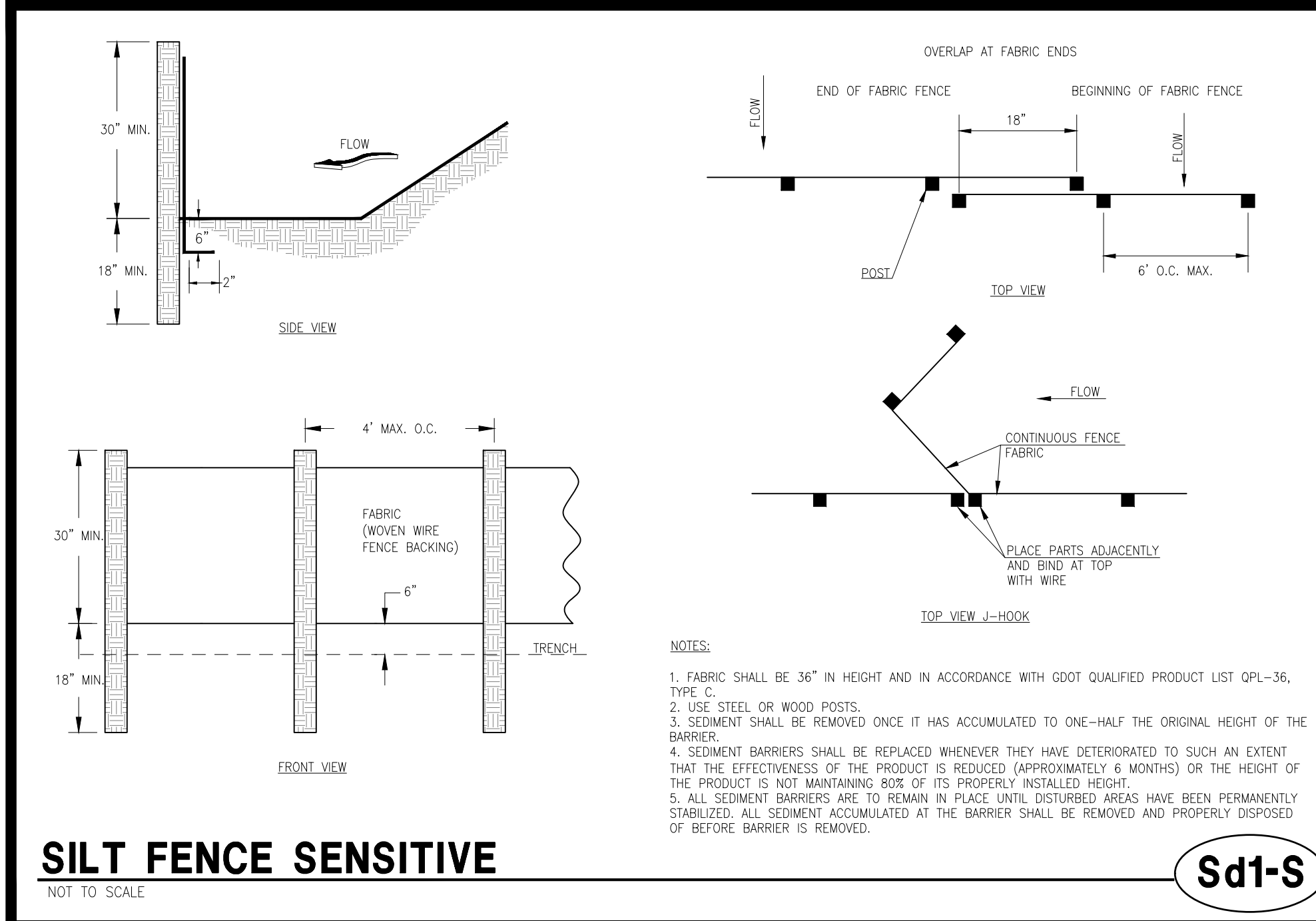
CERTIFICATION NUMBER: 000009382  
 ISSUED: 04/20/2021 EXPIRES: 04/20/2024



### CONSTRUCTION EXIT

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### SILT FENCE SENSITIVE

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Sd1-S

**DEFINITION**

THE ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER WITH FAST GROWING SEEDINGS FOR SEASONAL PROTECTION ON DISTURBED OR DENuded AREAS.

**CONDITIONS**

TEMPORARY GRASSING, INSTEAD OF MULCH, CAN BE APPLIED TO ROUGH GRADED AREAS THAT WILL BE EXPOSED FOR LESS THAN SIX MONTHS. TEMPORARY VEGETATIVE MEASURES SHOULD BE COORDINATED WITH PERMANENT MEASURES TO ASSURE ECONOMIC AND EFFECTIVE STABILIZATION. MOST TYPES OF TEMPORARY VEGETATION ARE IDEAL TO USE AS COMPANION CROPS UNTIL THE PERMANENT VEGETATION IS ESTABLISHED.

**SEEDING RATES FOR TEMPORARY SEEDING**

SPECIES	RATE PER 1,000 SQ. FT.	PLANTING SEASONS
WINTER RYE	10 POUNDS	9/1 TO 2/15
KENTUCKY 31 FESCUE	8 POUNDS	4/15 TO 7/1

\* UNUSUAL SITE CONDITIONS MAY REQUIRE HEAVIER SEEDING RATES

**NOTE:**

ALL TEMPORARY GRASSING MUST BE TILLED UNDER AND SOIL PREPARED TO A MIN. DEPTH OF 5 INCHES FOR PERMANENT GRASSING.

### DISTURBED AREA STABILIZATION (TEMPORARY SEEDING)

NOT TO SCALE

Ds2

**SPECIFICATIONS**

**GRASSING AND SHADING**

EXCESSIVE WATER RUN-OFF SHALL BE REDUCED BY PROPERLY DESIGNED AND INSTALLED EROSION CONTROL PRACTICES SUCH AS CLOSED DRAINS, DITCHES, Dikes, DIVERSIONS, SEDIMENT BARRIERS AND OTHERS. NO SHADING OR GRASSING IS REQUIRED IF SLOPES CAN BE STABILIZED BY HAND-SEEDING VEGETATION OR IF HYDRAULIC SEEDING EQUIPMENT IS TO BE USED.

**SEEDING PREPARATION**

WHEN A HYDRAULIC SEEDER IS USED, SEEDING PREPARATION IS NOT REQUIRED. WHEN USING CONVENTIONAL OR HANDSEEDING, SEEDING PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL. WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH CUT SLOPES, THE SOIL SHALL BE PULLED, TRENCHED OR OTHERWISE SCARPED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.

**LIME AND FERTILIZER**

AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE. GRADED AREAS REQUIRE LIME APPLICATION. SOILS CAN BE TESTED TO DETERMINE IF FERTILIZER IS NEEDED. ON UNUSUALLY FERTILE SOILS OR SOIL MATERIAL, FERTILIZER IS NOT REQUIRED. FOR SOILS WITH VERY LOW FERTILITY, 500 TO 700 POUNDS OF 10-10-10 FERTILIZER OR THE EQUIVALENT PER ACRE (12-16 LBS./1,000 SQ. FT.) SHALL BE APPLIED. FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER OR CHisel.

**SEEDING**

SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE YEAR. SEED SHALL BE APPLIED UNIFORM BY HAND, CYCLONE SEEDER, DRILL, COUNTERTRACT SEEDER, OR HYDRAULIC SEEDER (SUIRY INCLUDING SEED AND FERTILIZER). DRILL OR COUNTERTRACT 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 SEEDING BY HAND.

**MULCHING**

TEMPORARY VEGETATION CAN, IN MOST CASES, BE ESTABLISHED WITHOUT THE USE OF MULCH. 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.

**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.

**CONDITIONS**

PERMANENT PERENNIAL VEGETATION IS USED TO PROVIDE A PROTECTIVE COVER FOR EXPOSED AREAS INCLUDING CUTS, FILLS, DAMS, AND OTHER DENuded AREAS.

**SEEDING PREPARATION**

WHEN A HYDRAULIC SEEDER IS USED, SEEDING PREPARATION IS NOT REQUIRED. WHEN USING CONVENTIONAL OR HANDSEEDING, SEEDING PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL. WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH CUT SLOPES, THE SOIL SHALL BE PULLED, TRENCHED OR OTHERWISE SCARPED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.

**LIME AND FERTILIZER**

AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE. GRADED AREAS REQUIRE LIME APPLICATION. SOILS CAN BE TESTED TO DETERMINE IF FERTILIZER IS NEEDED. ON UNUSUALLY FERTILE SOILS OR SOIL MATERIAL, FERTILIZER IS NOT REQUIRED. FOR SOILS WITH VERY LOW FERTILITY, 500 TO 700 POUNDS OF 10-10-10 FERTILIZER OR THE EQUIVALENT PER ACRE (12-16 LBS./1,000 SQ. FT.) SHALL BE APPLIED. FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER OR CHisel.

**SEEDING**

SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE YEAR. SEED SHALL BE APPLIED UNIFORM BY HAND, CYCLONE SEEDER, DRILL, COUNTERTRACT SEEDER, OR HYDRAULIC SEEDER (SUIRY INCLUDING SEED AND FERTILIZER). DRILL OR COUNTERTRACT 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 SEEDING BY HAND.

**MULCHING**

TEMPORARY VEGETATION CAN, IN MOST CASES, BE ESTABLISHED WITHOUT THE USE OF MULCH. 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.

### DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

NOT TO SCALE

Ds3

**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.

**CONDITIONS**

PERMANENT PERENNIAL VEGETATION IS USED TO PROVIDE A PROTECTIVE COVER FOR EXPOSED AREAS INCLUDING CUTS, FILLS, DAMS, AND OTHER DENuded AREAS.

**SEEDING PREPARATION**

WHEN A HYDRAULIC SEEDER IS USED, SEEDING PREPARATION IS NOT REQUIRED. WHEN USING CONVENTIONAL OR HANDSEEDING, SEEDING PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL. WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH CUT SLOPES, THE SOIL SHALL BE PULLED, TRENCHED OR OTHERWISE SCARPED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.

**LIME AND FERTILIZER**

AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE. APPLY AGRICULTURAL LIME AT A RATE OF ONE TON PER ACRE. GRADED AREAS REQUIRE LIME APPLICATION. SOILS CAN BE TESTED TO DETERMINE IF FERTILIZER IS NEEDED. ON UNUSUALLY FERTILE SOILS OR SOIL MATERIAL, FERTILIZER IS NOT REQUIRED. FOR SOILS WITH VERY LOW FERTILITY, 500 TO 700 POUNDS OF 10-10-10 FERTILIZER OR THE EQUIVALENT PER ACRE (12-16 LBS./1,000 SQ. FT.) SHALL BE APPLIED. FERTILIZER SHOULD BE APPLIED BEFORE LAND PREPARATION AND INCORPORATED WITH A DISK, RIPPER OR CHisel.

**SEEDING**

SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE YEAR. SEED SHALL BE APPLIED UNIFORM BY HAND, CYCLONE SEEDER, DRILL, COUNTERTRACT SEEDER, OR HYDRAULIC SEEDER (SUIRY INCLUDING SEED AND FERTILIZER). DRILL OR COUNTERTRACT 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 SEEDING BY HAND.

**MULCHING**

TEMPORARY VEGETATION CAN, IN MOST CASES, BE ESTABLISHED WITHOUT THE USE OF MULCH. 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.

**INDIVIDUAL PLANTS**

1. WHERE INDIVIDUAL PLANTS ARE TO BE SET, THE SOIL SHALL BE PREPARED BY EXCAVATING HOLES, OPENING FURROWS, OR DOUBLE PLANTING.

2. FOR NURSERY STOCK PLANTS, HOLES SHALL BE LARGE ENOUGH TO ACCOMMODATE ROOTS WITHOUT CHOKING.

3. WHERE PINE SEEDLINGS ARE TO BE PLANTED, SUBSOIL UNDER THE ROW 36 INCHES DEEP ON THE COUNTER FOUR TO SIX MONTHS PRIOR TO PLANTING. SUBSOILING SHOULD BE DONE WHEN THE SOIL IS DRY, PREFERABLY IN AUGUST OR SEPTEMBER.

**PLANTING**

**CONVENTIONAL SEEDING**

SEEDING WILL BE DONE ON A FRESHLY PREPARED AND FIRMED SEEDBED. FOR BROADCAST PLANTING, USE A COUNTERTRACT SEEDER, DRILL, ROTARY SEEDER, OR OTHER MECHANICAL SEEDER. FOR HAND SEEDING, TO DISTRIBUTE THE SEED UNIFORMELY 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 COUNTERTRACT OR OTHER SUITABLE EQUIPMENT.

**INDIVIDUAL PLANTS**

SHRUBS, VINES AND SPICES 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 ROOTS. NURSERY STOCK PLANTS SHALL BE PLANTED AT THE SAME DEPTH OR SLIGHTLY DEEPER THAN THEY GROW AT THE NURSERY. THE TIPS OF VINES AND SPICES 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 SEEDING AREAS SHALL ACHIEVE 70% SOIL COVER. SELECT THE MULCHING MATERIAL FROM THE FOLLOWING AND APPLY AS INDICATED:

1. DRY STRAW OR DRY HAY OF GOOD QUALITY AND FREE OF WEED SEEDS CAN BE USED. DRY STRAW SHALL BE APPLIED AT A RATE OF 2 TONS PER ACRE. DRY HAY SHALL BE APPLIED AT A RATE OF 2 1/2 TONS PER ACRE.
2. WOOD CELLULOSE MULCH OR WOOD PULP FIBER SHALL BE USED WITH HYDRAULIC SEEDING. IT 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.
3. ONE THOUSAND POUNDS OF WOOD CELLULOSE OR WOOD PULP FIBER, WHICH INCLUDES A TACKLER, SHALL BE USED WITH HYDRAULIC SEEDING ON SLOPES 5/4:1 OR STEEPER.
4. SERICIA LESPEDEZA HAY CONTAINING MATURE SEED SHALL BE APPLIED AT A RATE OF THREE TONS PER ACRE.
5. 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 PERMANENTIAL OR OTHER GROUND COVERS ARE PLANTED. THIS IS NOT APPROPRIATE FOR SEEDING AREAS.
6. WHEN USING TEMPORARY EROSION CONTROL BLANKETS OR BLOCK 500, MULCH IS NOT REQUIRED.
7. BITUMINOUS TREATED HAY MAY BE APPLIED ON PLANTED AREAS ON SLOPES, IN DITCHES OR DRY WATERWAYS TO PREVENT EROSION. BITUMINOUS TREATED HAY SHALL BE APPLIED WITHIN 24 HOURS AFTER AN AREA HAS BEEN PLANTED. APPLICATION RATES AND MATERIALS MUST MEET GEORGE 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 UNIFORM WITHIN 24 HOURS AFTER SEEDING AND/OR PLANTING. THE MULCH MAY BE SPREAD BY BLOWER-PIPE SPREADING EQUIPMENT, OTHER SPREADING EQUIPMENT OR BY HAND. MULCH SHALL BE APPLIED TO COVER 75% OF THE SOIL SURFACE. WOOD CELLULOSE OR WOOD FIBER MULCH SHALL BE APPLIED UNIFORM WITH HYDRAULIC SEEDING EQUIPMENT.

**ANCHORED MULCH**

ANCHOR STRAW OR HAY MULCH IMMEDIATELY AFTER APPLICATION BY ONE OF THE FOLLOWING METHODS:

1. EMULSIFIED ASPHALT CAN BE (A) SPRAED UNIFORM ON TO THE MULCH AS IT IS EJECTED FROM THE BLOWER MACHINE OR (B) SPRAED ON THE MULCH IMMEDIATELY FOLLOWING MULCH APPLICATION WHEN STRAW OR HAY IS SPREAD BY METHODS OTHER THAN SPECIAL BLOWER EQUIPMENT. THE COMBINATION OF ASPHALT EMULSION AND WATER SHALL CONSIST OF A HOMOGENEOUS MIXTURE SATISFACTORY FOR SPREADING. THE MIXTURE SHALL CONSIST OF 100 GALLONS OF GRADE 80+H OR CSS-1H EMULSIFIED ASPHALT AND 100 GALLONS OF WATER PER TON OF MULCH. CARE SHALL BE TAKEN AT ALL TIMES TO PROTECT STATE WATERS, THE PUBLIC, ADJACENT PROPERTY, PAVEMENTS, CURBS, SIDEWALKS, AND ALL OTHER STRUCTURES FROM ASPHALT DISCOLORATION.

**IRRIGATION**

IRRIGATION SHALL BE APPLIED AT A RATE THAT WILL NOT CAUSE RUNOFF.

**SEEDING RATES FOR PERMANENT SEEDING**

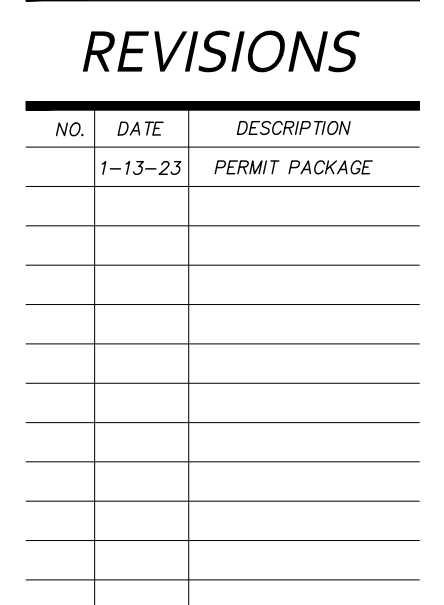
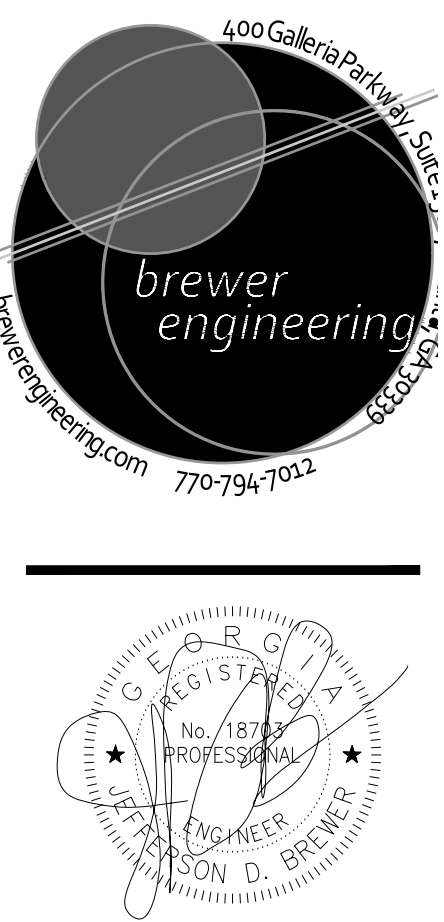
SPECIES	RATE PER 1,000 SQ. FT.	PLANTING SEASON
COMMON BERMUDA (COMMON DICKTICK)	4 POUNDS HILLED BERMUDA	4/1 TO 6/1
COOL SEASON BERMUDA	4 POUNDS	9/1 TO 10/15
UNHILLED BERMUDA	4 POUNDS	10/1 - 3/1
KENTUCKY 31 FESCUE (FESCUE ELATOR)	4 POUNDS (VAR. ARIZONANACEA)	3/1 TO 5/1 & 8/1 TO 11/1
ZENITH ZOYSA	4 POUNDS	4/1 TO 7/15

THIS IS A GENERAL SEEDING CHART SEE PROJECT SPECIFICATIONS FOR SEEDING SPECIFICATIONS

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Suite 300  
Marietta, GA 30060

Cobb County Parks  
New Maintenance Building  
1792 County Services Parkway  
Marietta, GA 30068

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PROJECT NO.: 2206B

DATE: 12-16-2022

SHEET TITLE: DETAILS

SHEET NO.: C-8.0







# GENERAL NOTES:

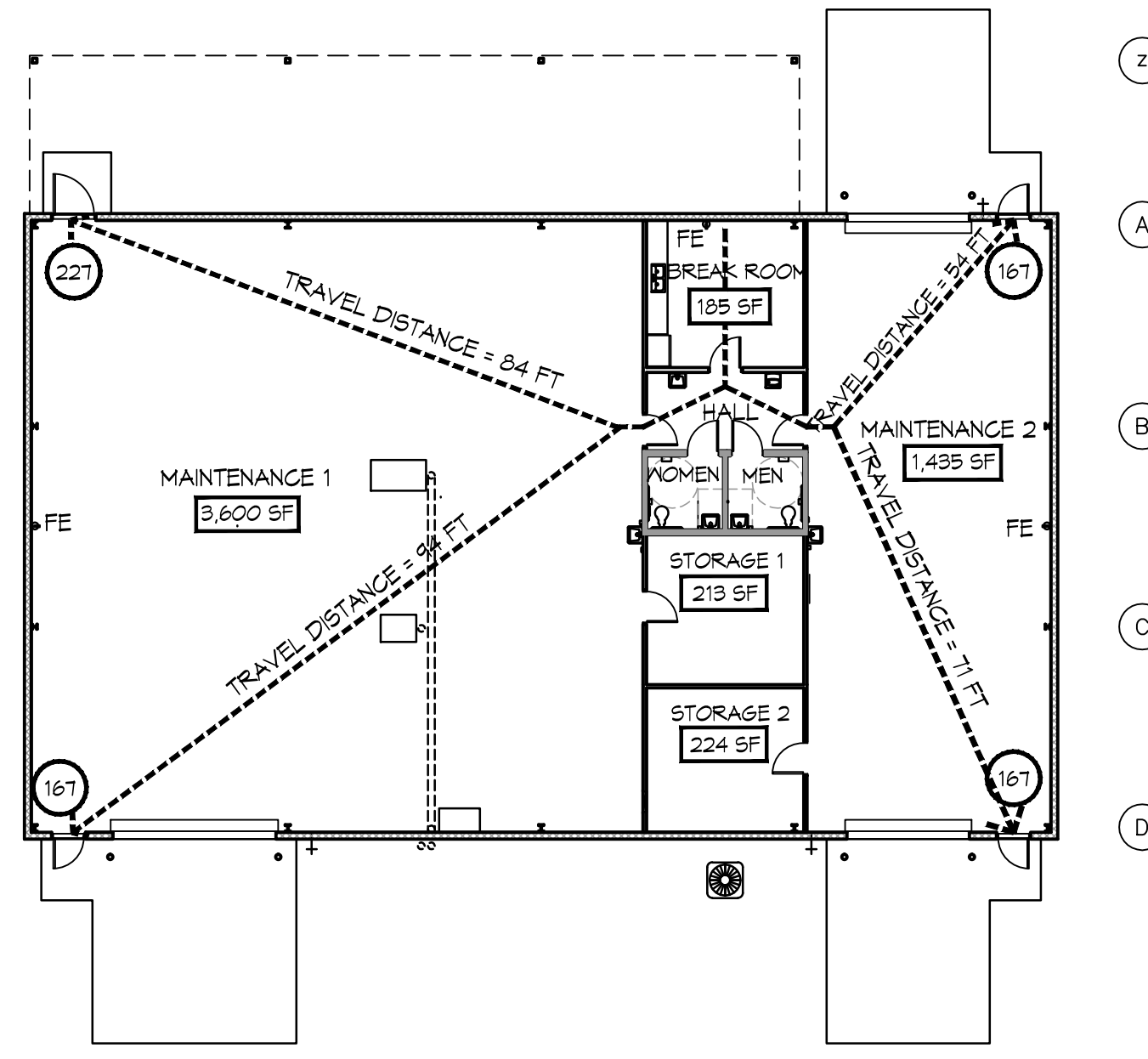
- ALL EXTERIOR DOORS ARE NONEXISTING
- ALL EXIT DOORS AND DOORS IN THE MEANS OF EGRESS SHALL BE SIDE HINGED AND SWING IN THE DIRECTION OF EXIT OF TRAVEL AND IF ANY LOCKING OR LATCHING DEVICE IS TO BE PROVIDED, ONLY APPROVED HARDWARE MAY BE USED. WHERE A DOOR IS REQUIRED TO BE EQUIPPED WITH PANIC OR FIRE HARDWARE, SUCH HARDWARE SHALL MEET THE FOLLOWING CRITERIA:
  - IT SHALL CONSIST OF CROSS BARS OR PUSH PADS, THE ACTUATING PORTION OF WHICH EXTENDS ACROSS NOT LESS THAN ONE-HALF OF THE WIDTH OF THE DOOR LEAF AND NOT LESS THAN 34 INCHES NOR MORE THAN 48 INCHES ABOVE THE FLOOR.
  - IT SHALL BE CONSTRUCTED SO THAT A HORIZONTAL FORCE NOT TO EXCEED 15LBF ACTUATES THE CROSS BAR OR PUSH PAD AND LATCHES

NFPA 101, 15.2.2.2.2; NFPA 101, 7.2.1.7.1
- DOORS IN EXITS SHALL NOT BE SUBJECT TO THE USE OF A KEY FOR OPERATION FROM THE INSIDE OF THE BUILDING.
- WINDOWS, GLASS DOORS AND SIDELITES ARE TEMPERED.
- (DOORS/HARDWARE) HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. LEVER-OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. RULE 120-3-20-24 (9) SHALL BE PROVIDED. GEORGIA ACCESSIBILITY CODE
- ALL OPENINGS TO BE 3' WIDE UNLESS OTHERWISE NOTED.
- PASSAGES OF PIPES, CONDUITS, BUS DUCTS, CABLES, WIRES, AIR DUCTS, AND SIMILAR BUILDING SERVICE EQUIPMENT THROUGH FIRE BARRIERS SHALL BE PROTECTED AS FOLLOWS: THE SPACE BETWEEN THE PENETRATING ITEM AND FIRE BARRIER SHALL BE FILLED WITH A MATERIAL CAPABLE OF MAINTAINING THE FIRE RESISTANCE RATING OF THE FIRE BARRIER PRODUCT. PRODUCT USED MUST MEET TEST METHODS ASTM E814 OR UL 1418 FOR FIRE RATING.
- WALLS TO BE PAINT FINISH, UNLESS NOTED OTHERWISE (COMBUSTIBLE INTERIOR FINISH PRODUCTS) SHALL BE PROVIDED PER THE REQUIREMENTS OF THE RESPECTIVE OCCUPANCY CHAPTER OF THE NFPA 101 LIFE SAFETY CODE 2018 EDITION. PROVIDE VERIFICATION AT THE TIME OF FINAL INSPECTION. REQUIREMENTS OF THE RESPECTIVE OCCUPANCY CHAPTER OF THE NFPA 101 LIFE SAFETY CODE 2012 EDITION. PROVIDE VERIFICATION AT THE TIME OF FINAL INSPECTION THAT THE PRODUCTS COMPLY WITH THE REQUIREMENTS.
- PROVIDE F.T. WOOD BLOCKING ON WALLS TO ATTACH ANY ITEM WHICH LOCATION DOES NOT LINE UP WITH A STUD, I.E. HARDWARE ITEMS, TOILET ACCESSORIES, ETC.
- MOUNT ALL FIRE EXTINGUISHERS AT MAXIMUM 48" A.F.F. TO TOP OF HANDLE
- ALL MANEUVERING CLEARANCES AT DOORS MUST COMPLY WITH THE GEORGIA ACCESSIBILITY CODE SECTION 120-3-20-24 (6) MANEUVERING CLEARANCES AT DOORS.
- A FULL SET OF APPROVED DRAWINGS SHALL BE KEPT AT THE SITE AND AVAILABLE TO ALL FIELD BUILDING INSPECTORS AT ALL TIMES.
- ALL DIMENSIONS ARE TO FACE OF STUD OR BLOCK UNLESS OTHERWISE NOTED.
- GC TO CONTACT THE LOCAL FIRE MARSHAL'S OFFICE FOR INSPECTIONS AT 80%, AND 100% COMPLETION. NOTE: 80% = INSPECTION OF ANY FIRE RATED BARRIERS, FLOOR OR CEILING. (100%) = FINAL INSPECTION: ALL SYSTEMS, EQUIPMENT INSTALLED AND OPERATING, READY FOR OCCUPANCY.
- EVERY SIGN REQUIRED IN NFPA 101, SECTION 7.10 SHALL BE LOCATED AND OF SUCH SIZE, DISTINCTIVE COLOR, AND DESIGN THAT IT IS READILY VISIBLE AND SHALL PROVIDE CONTRAST WITH DECORATIONS, INTERIOR FINISH, OR OTHER SIGNS.
- NO DECORATIONS, FURNISHINGS, OR EQUIPMENT THAT IMPAIRS VISIBILITY OF A SIGN SHALL BE PERMITTED. NO BRIGHTLY ILLUMINATED SIGN (FOR OTHER THAN EXIT PURPOSES), DISPLAY, OR OBJECT IN OR NEAR THE LINE OF VISION OF THE REQUIRED EXIT SIGN THAT SHOULD DETRACT ATTENTION FROM THE EXIT SIGN SHALL BE PERMITTED.
- COMPLY WITH THE 2018 INTERNATIONAL BUILDING CODE SECTION 3304 FIRE EXTINGUISHERS DURING DEMOLITION.

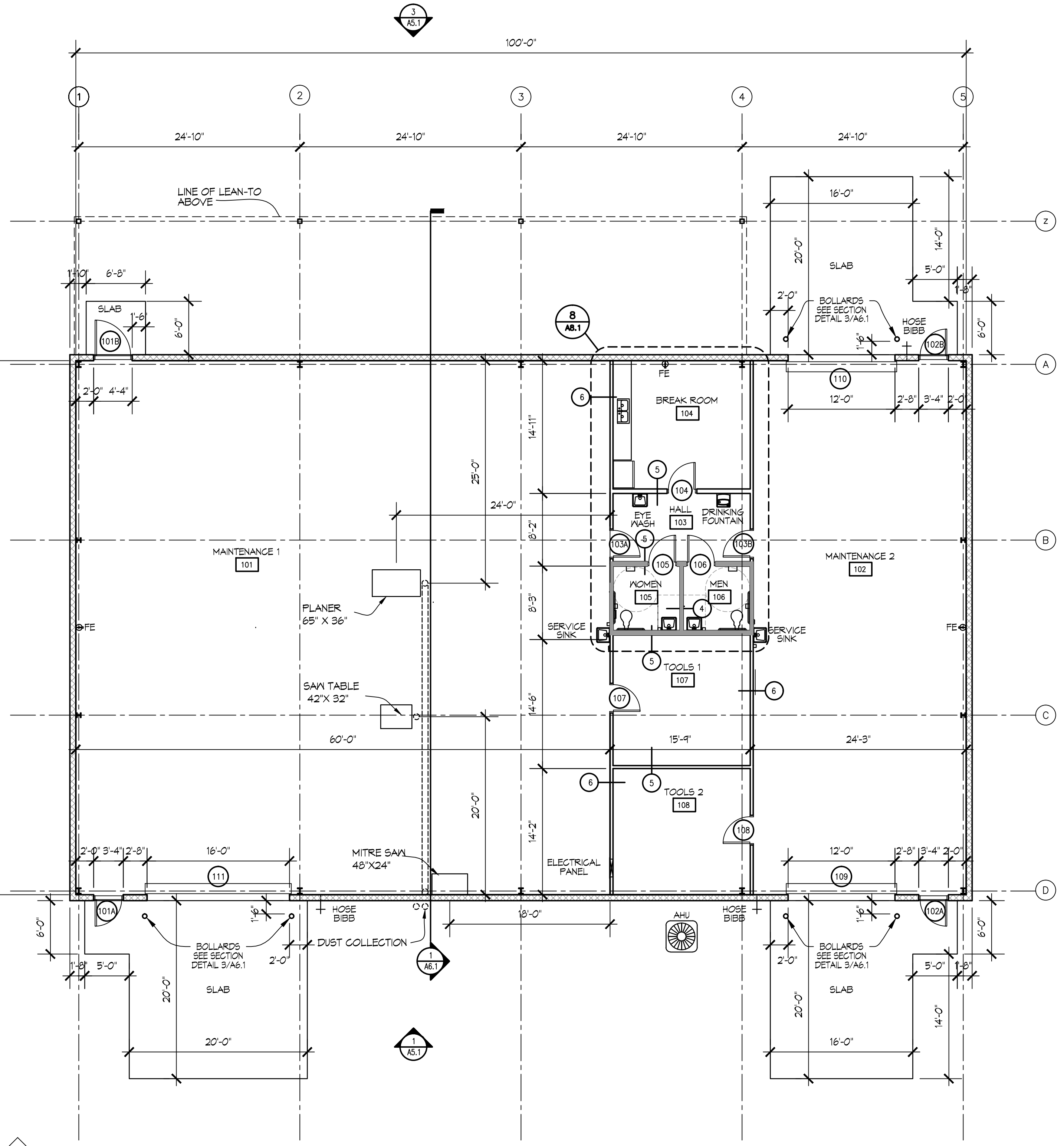
Room Name & Number	Occupancy Use	Area Factor	Occupant Load
MAINTENANCE 1 101	INDUSTRIAL	3600 / 100 GROSS	36
MAINTENANCE 2 102	INDUSTRIAL	1435 / 100 GROSS	15
BREAK ROOM 104	ASSEMBLY	185 / 15 NET	13
STORAGE 1 107	STORAGE	213 / 300 GROSS	1
STORAGE 2 108	STORAGE	224 / 300 GROSS	1
TOTAL OCCUPANT LOAD	INDUSTRIAL		66

## GRAPHICS LEGEND:

- (11) DOOR NUMBER, SEE DOOR SCHEDULE ON A8.1
- [ ] ROOM NUMBER, SEE FINISH SCHEDULE ON A8.1
- (2) EQUIPMENT TYPE, SEE SCHEDULE ON A2.1
- (1) PARTITION TYPE, SEE SCHEDULE ON A2.1
- (A) TOILET ACCESSORY, SEE SCHEDULE ON A2.1



**1 LIFE SAFETY PLAN**  
SCALE: 1/16" = 1'-0"



**1 MAIN FLOOR PLAN**  
SCALE: 1/8" = 1'-0"

## LIFE SAFETY LEGEND

OCCUPANCY CLASSIFICATION INDUSTRIAL	LIFE SAFETY SYMBOLS LEGEND
EGRESS COMPONENT CAPACITY DOORS - 0.2" CLEAR PER PERSON 14" REQUIRED, 146" PROVIDED *TYP. 36" SINGLE DOOR = 33 1/2" CLEAR / 2 = 167 PERSONS *TYP. 72" SINGLE DOOR = 45 1/2" CLEAR / 2 = 228 PERSONS	AREA OF ROOM [ ] 1,000 SF
OCCUPANCY LOAD: 68 PERSONS	CAPACITY @ EXIT DOOR (167)
	WALL HUNG FIRE EXTINGUISHER (FE)
	TRAVEL DISTANCE TO EXIT (200' LIMIT)

## WALL PARTITION TYPES

- NOTES:
- PROVIDE WATER RESISTANT GYPSUM WALL BOARD ON EACH NET WALL
- 4 [ ] 1 LAYER 5/8" GYPSUM BOARD EACH SIDE OF 9-5/8" METAL STUDS @ 24" O.C. EXTEND 6" ABOVE CEILING.
  - 5 [ ] 1 LAYER 5/8" GYPSUM BOARD EACH SIDE OF 6" METAL STUDS @ 24" O.C. EXTEND TO UNDERSIDE OF ROOF DECK ON MAINTENANCE SIDE, AND 6" ABOVE CEILING ON OPPOSITE SIDE.
  - 6 [ ] 1 LAYER 5/8" GYPSUM BOARD EACH SIDE OF 6" METAL STUDS @ 24" O.C. EXTEND TO UNDERSIDE OF ROOF DECK ON MAINTENANCE SIDE, AND 6" ABOVE CEILING ON OPPOSITE SIDE.

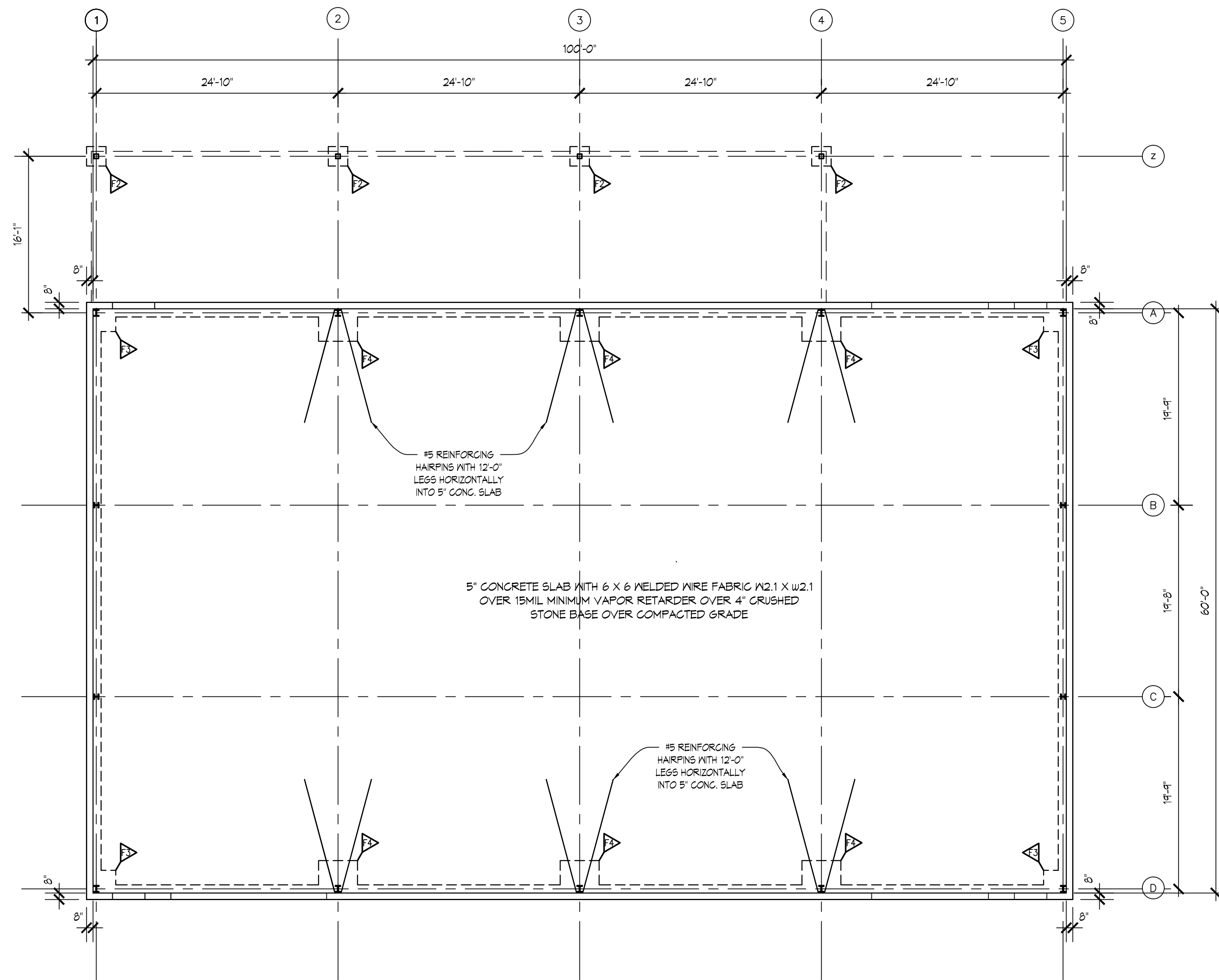
**Cobb County Parks  
New Maintenance Building**  
1792 County Services Parkway, Building 800  
Marietta, GA 30008

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Sheet Title: MAIN FLOOR & LIFE SAFETY PLANS  
Drawn By: S F  
Scale: AS NOTED  
Date: 03/11/2024  
Job No.: 2209  
Sheet No.:

**A2.1**

**FOR PRICING**



➔ **1 FOUNDATION PLAN**  
 A2.2 SCALE: 1/8" = 1'-0"

FOOTING SCHEDULE				
TYPE	LENGTH	WIDTH	DEPTH	REINFORCEMENT
△	2'-0"	2'-0"	1'-6"	4 #5 - EACH WAY
△	3'-0"	3'-0"	1'-6"	4 #5 - EACH WAY
△	4'-0"	4'-0"	1'-6"	5 #5 - EACH WAY

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Sheet Title:  
 FOUNDATION PLAN  
 Drawn By: S F  
 Scale: AS NOTED  
 Date: 03/11/2024  
 Job No.: 2201  
 Sheet No.:

**A2.2**

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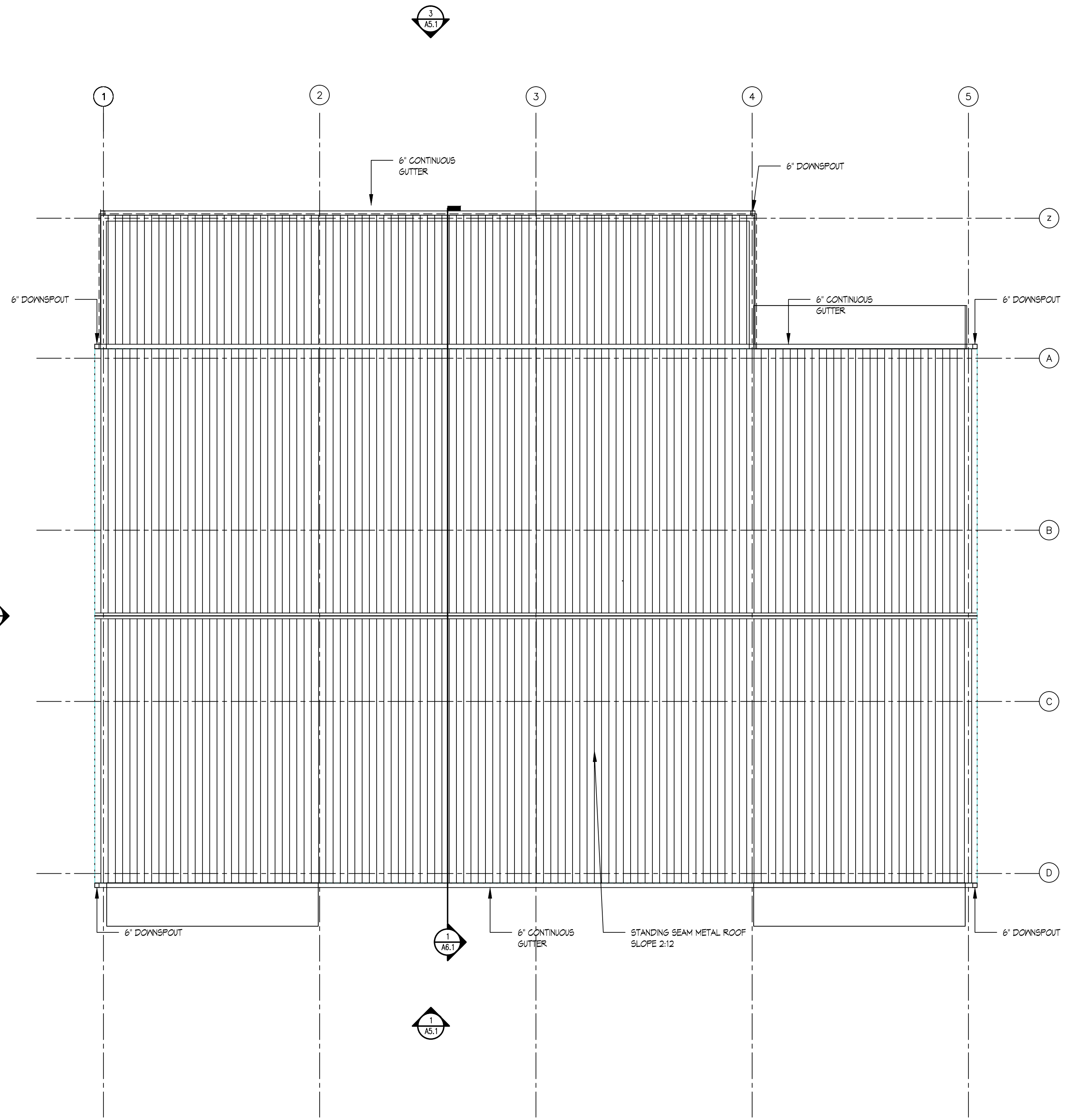
Revisions:


**Cobb County Parks  
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 Marietta, GA 30008

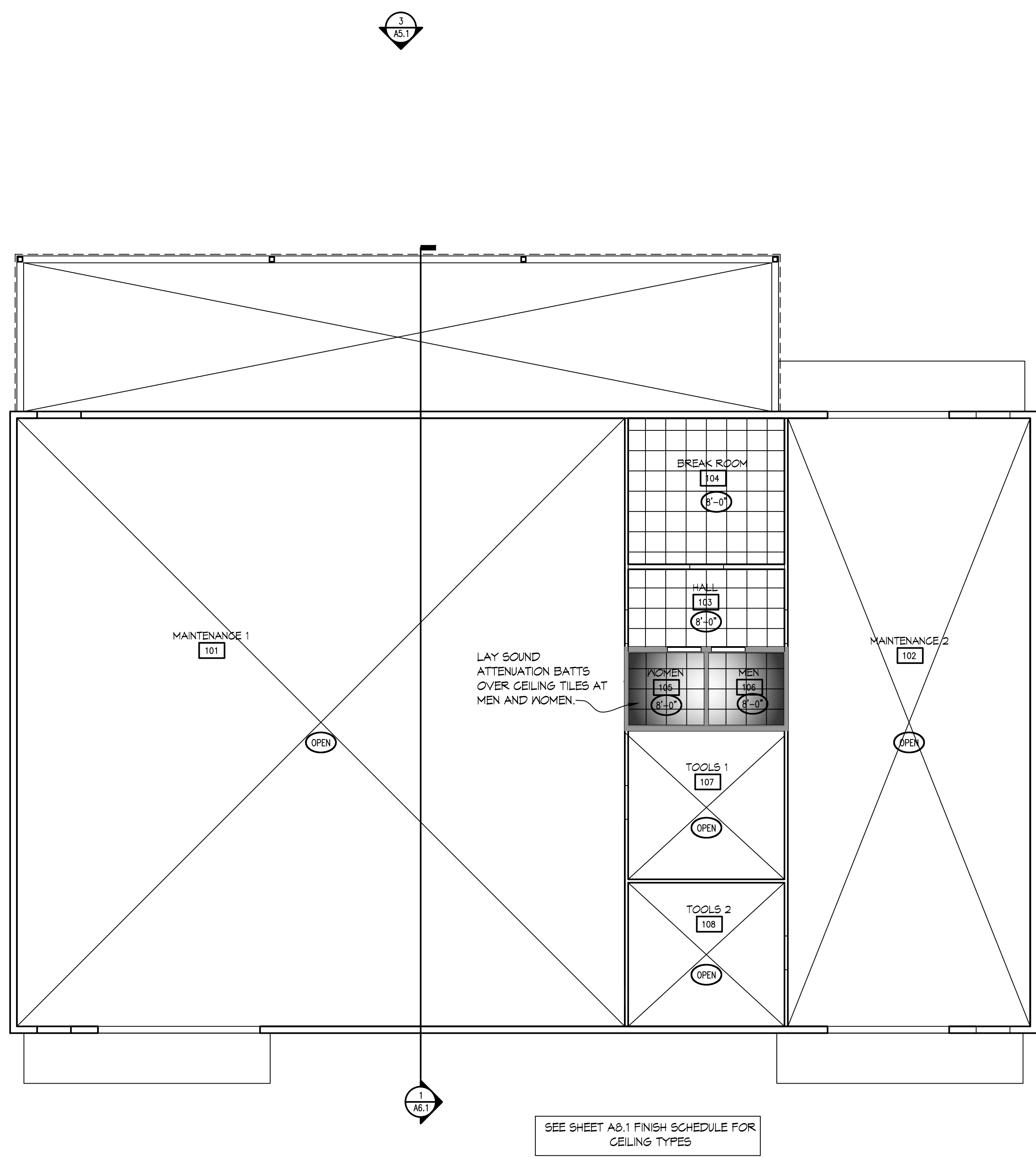
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Sheet Title:  
**REFLECTED CEILING  
 PLAN AND ROOF PLAN**  
 Drawn By: S F  
 Scale: AS NOTED  
 Date: 03/11/2024  
 Job No.: 2201  
 Sheet No.:

**A3.1**

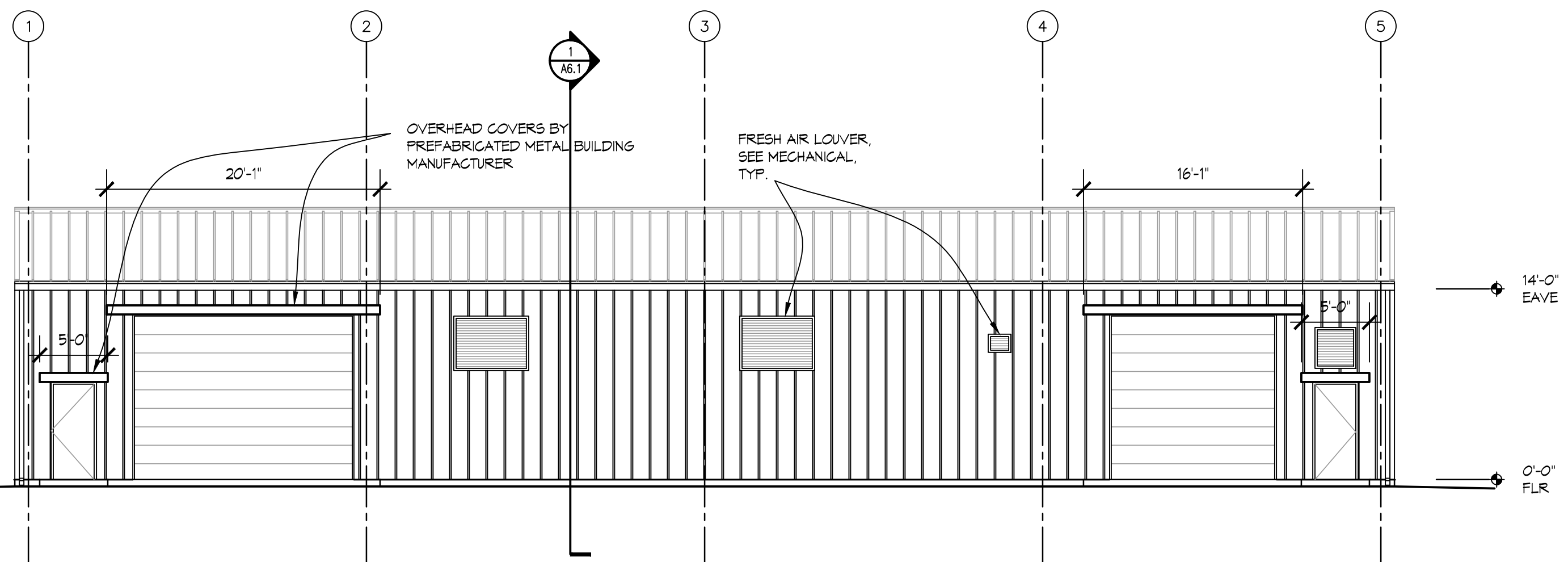


**2 ROOF PLAN**  
 SCALE: 1/8"=1'-0"

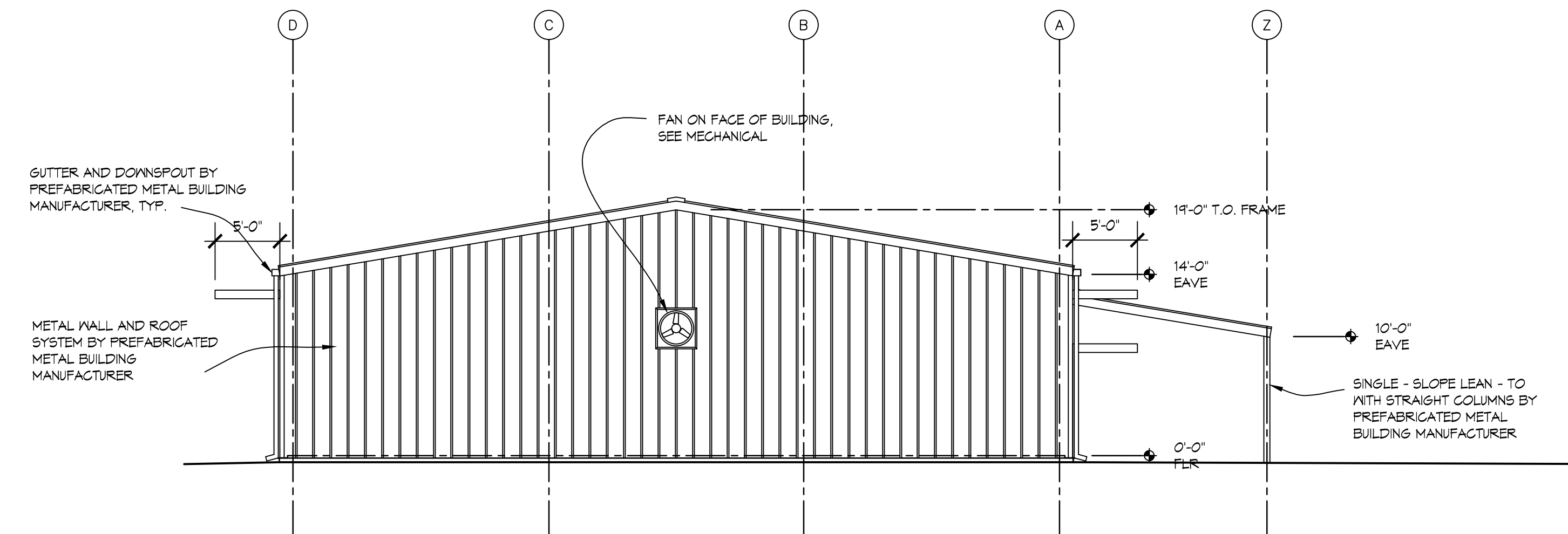


**1 REFLECTED CEILING PLAN**  
 SCALE: 1/8"=1'-0"

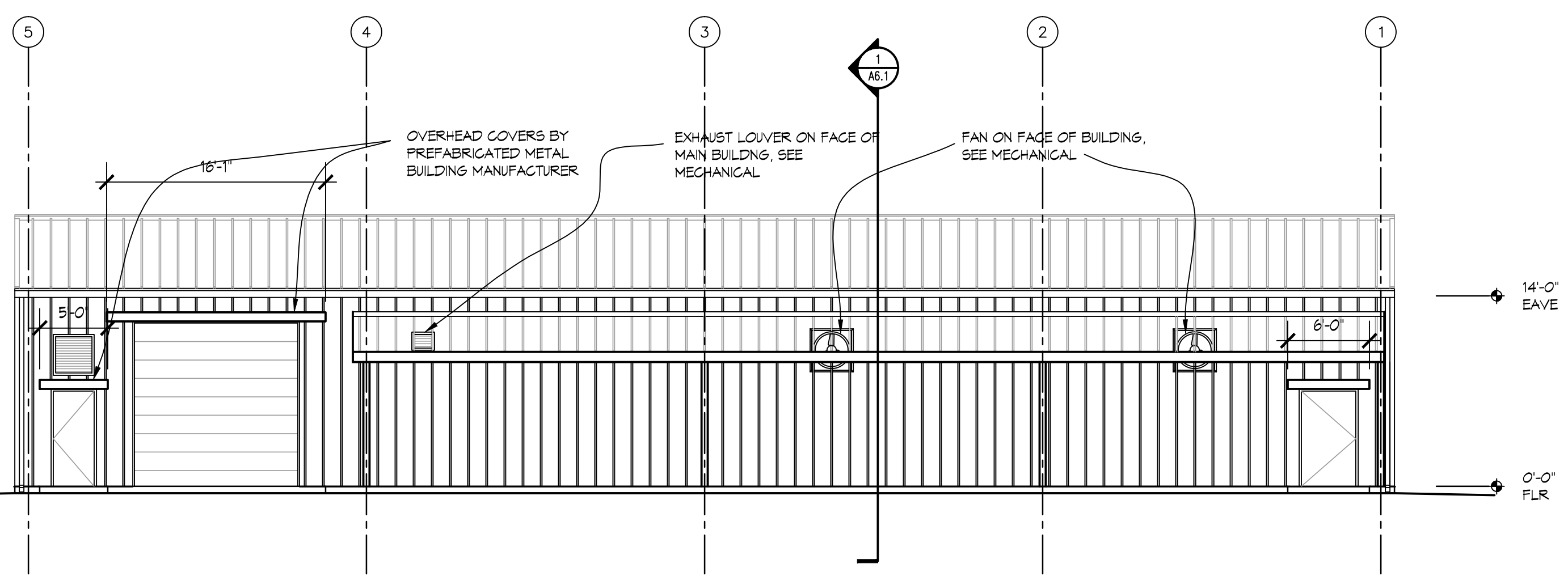
**FOR PRICING**



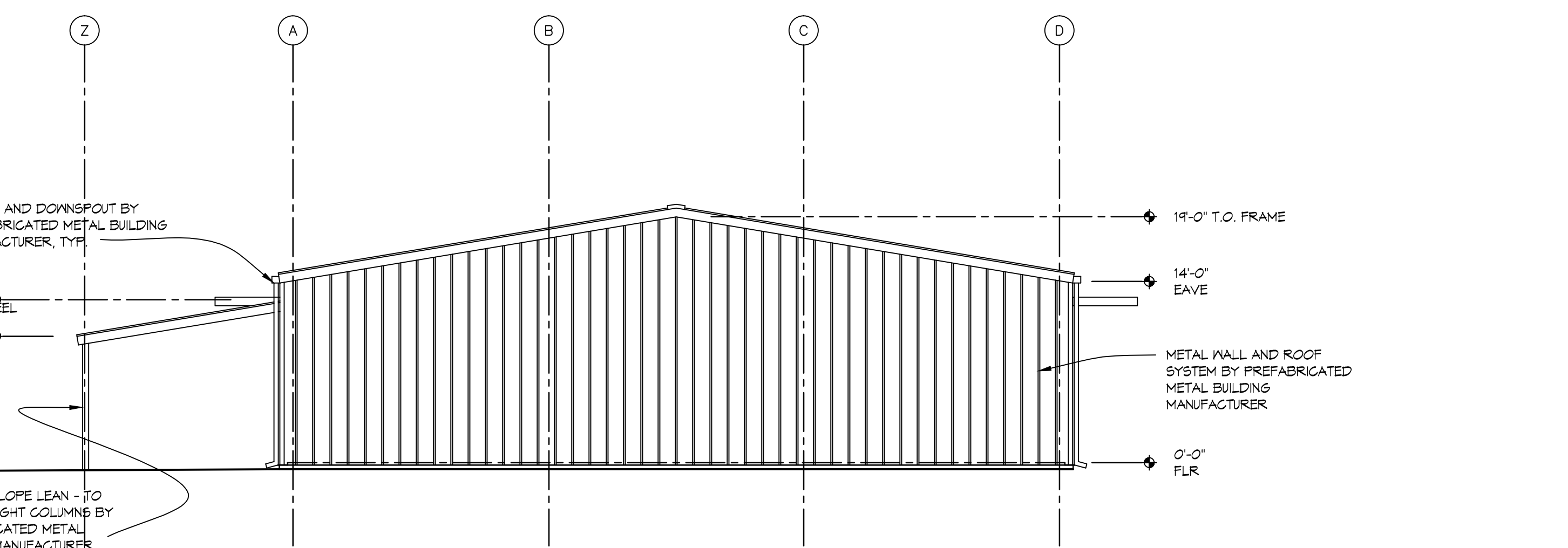
**1 FRONT ELEVATION**  
 A5.1 SCALE: 1/8"=1'-0"



**2 RIGHT ELEVATION**  
 A5.1 SCALE: 1/8"=1'-0"



**3 REAR ELEVATION**  
 A5.1 SCALE: 1/8"=1'-0"



**4 LEFT ELEVATION**  
 A5.1 SCALE: 1/8"=1'-0"

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Revisions:

No.	Description

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Sheet Title:  
 ELEVATIONS

Drawn By: S.F.

Scale: AS NOTED

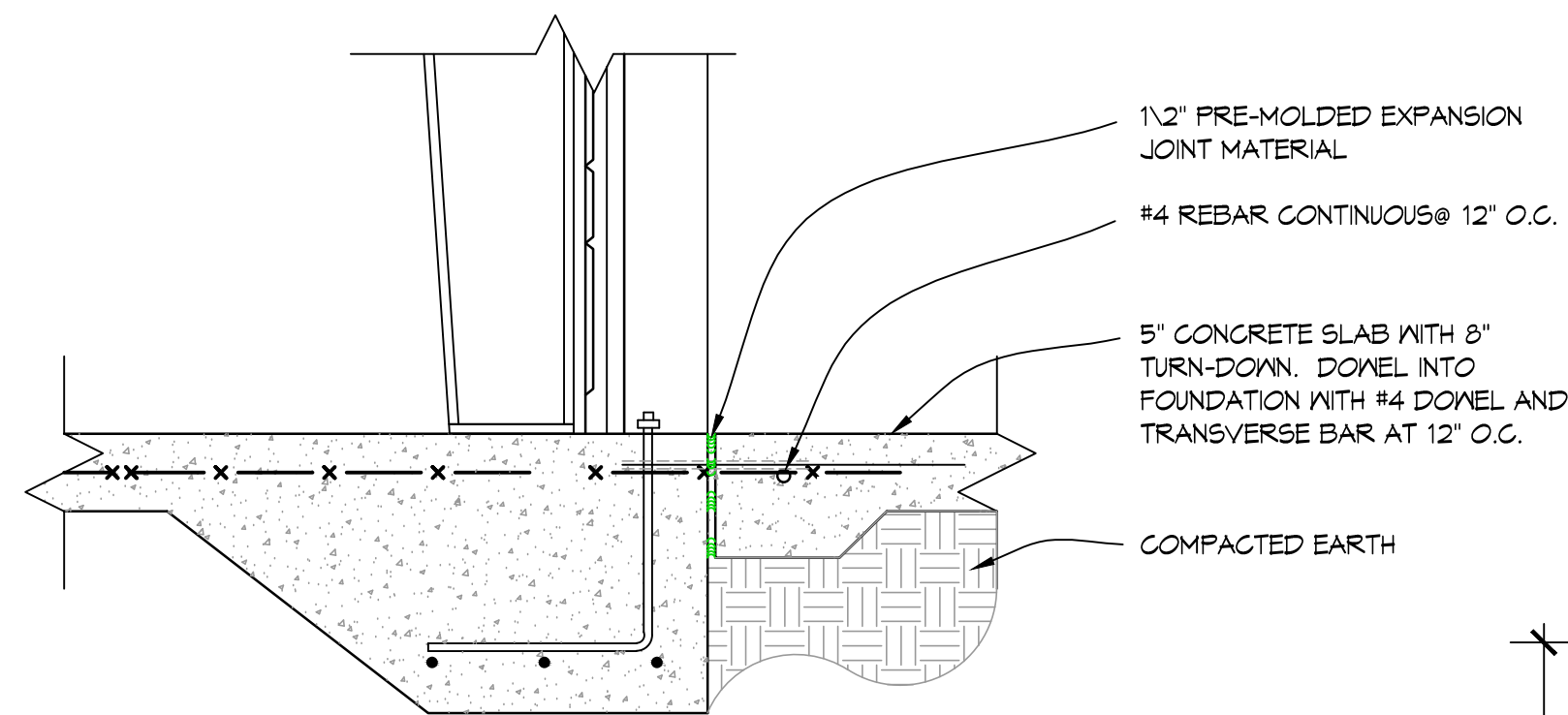
Date: 03/11/2024

Job No.: 2209

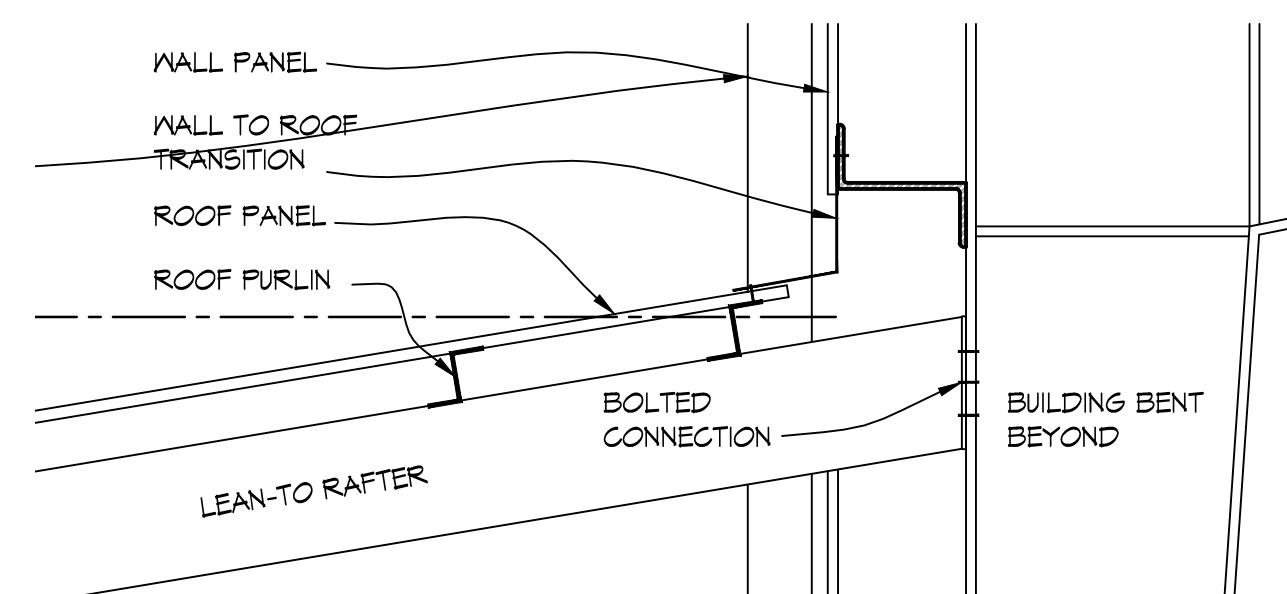
Sheet No.:

**A5.1**

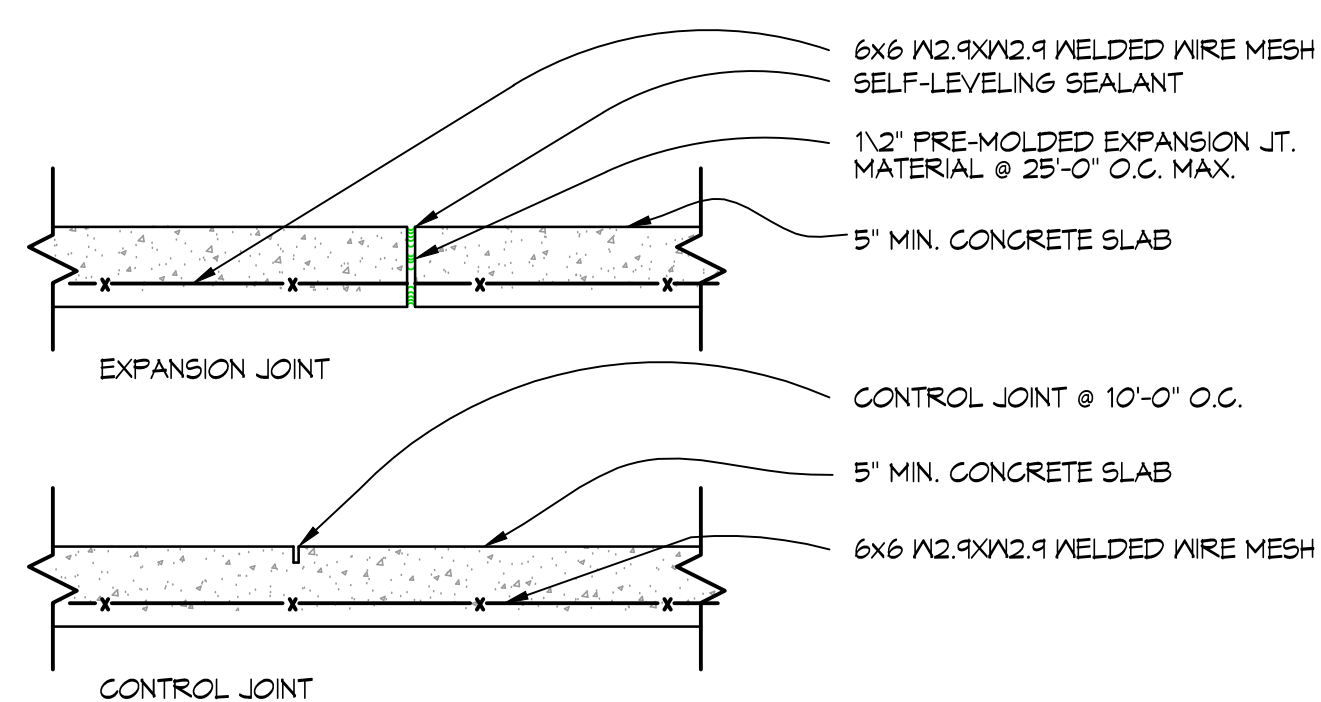
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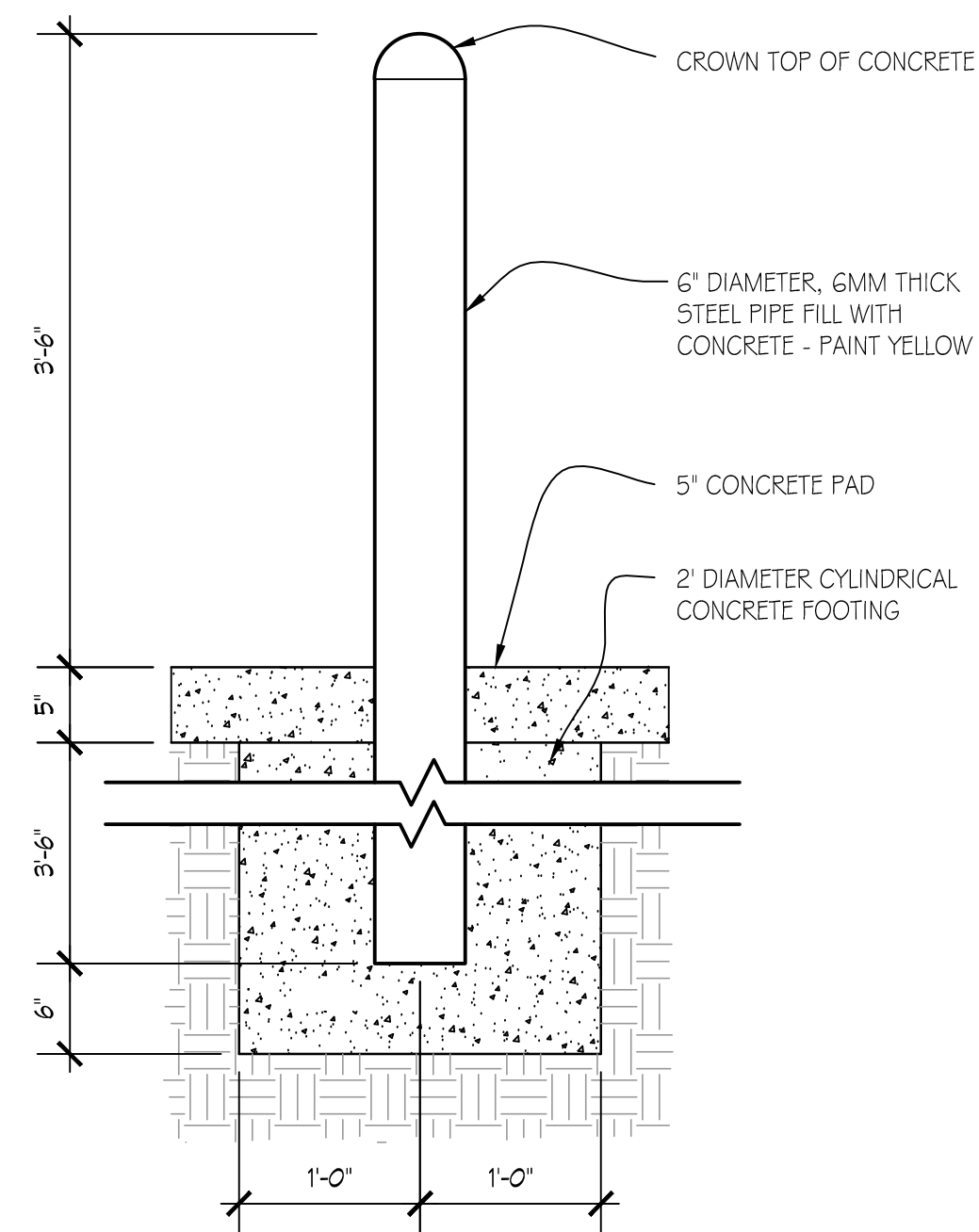
**6 SILL AT OVERHEAD DOOR**  
 SCALE: 1"=1'-0"



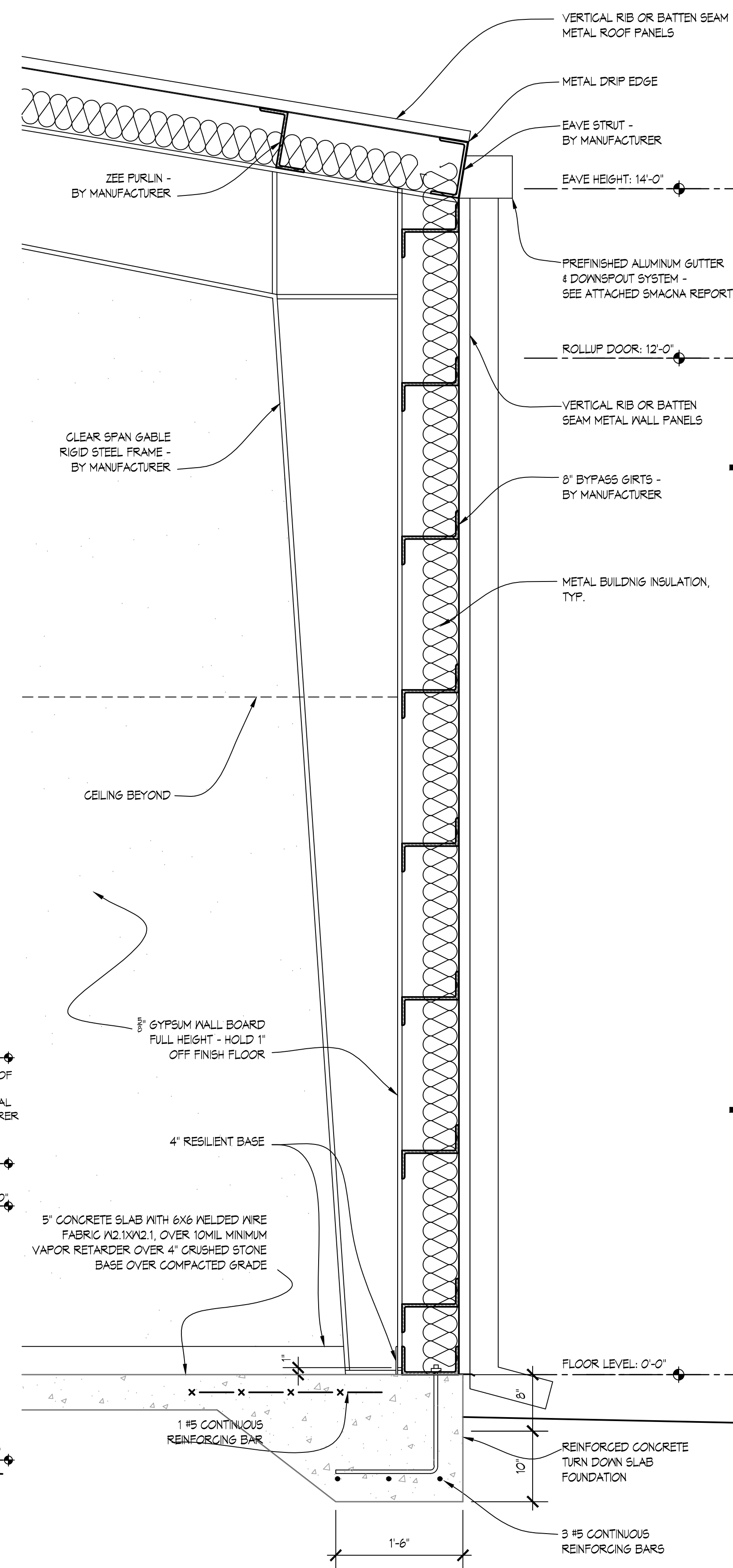
**5 SECTION AT LEAN - TO**  
 SCALE: 1"=1'-0"



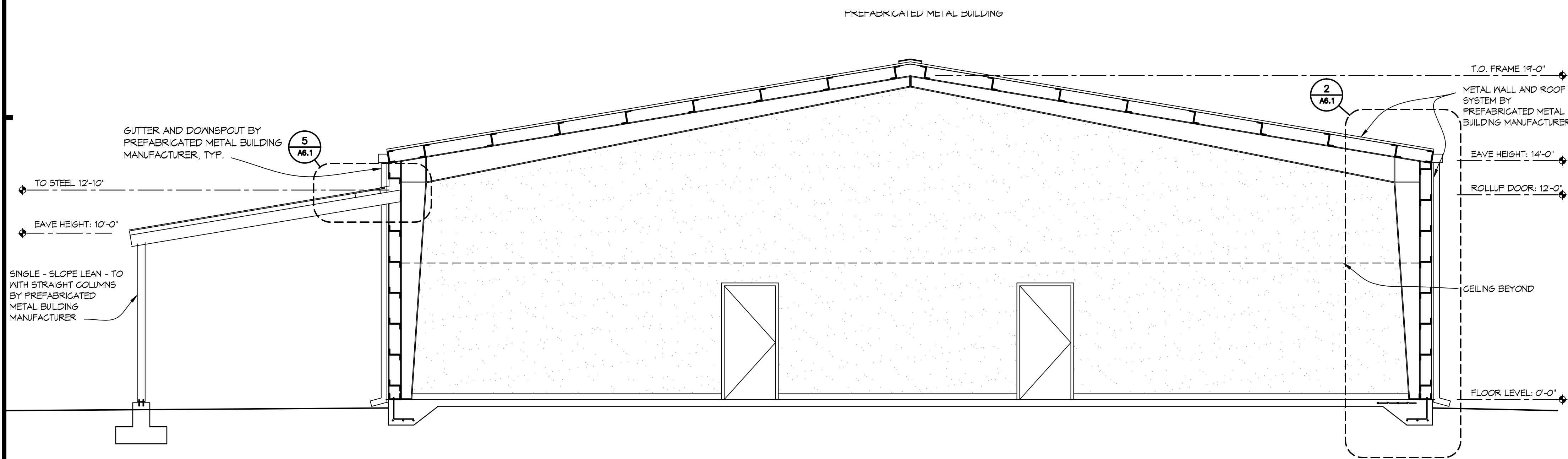
**4 TYPICAL CONCRETE SLAB DETAILS**  
 SCALE: 1"=1'-0"



**3 TYPICAL BOLLARD DETAIL**  
 SCALE: 1"=1'-0"



**2 TYPICAL WALL SECTION**  
 SCALE: 1"=1'-0"



**1 TRANSVERSE BUILDING SECTION**  
 SCALE: 1/4"=1'-0"

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Revisions:

No.	Description

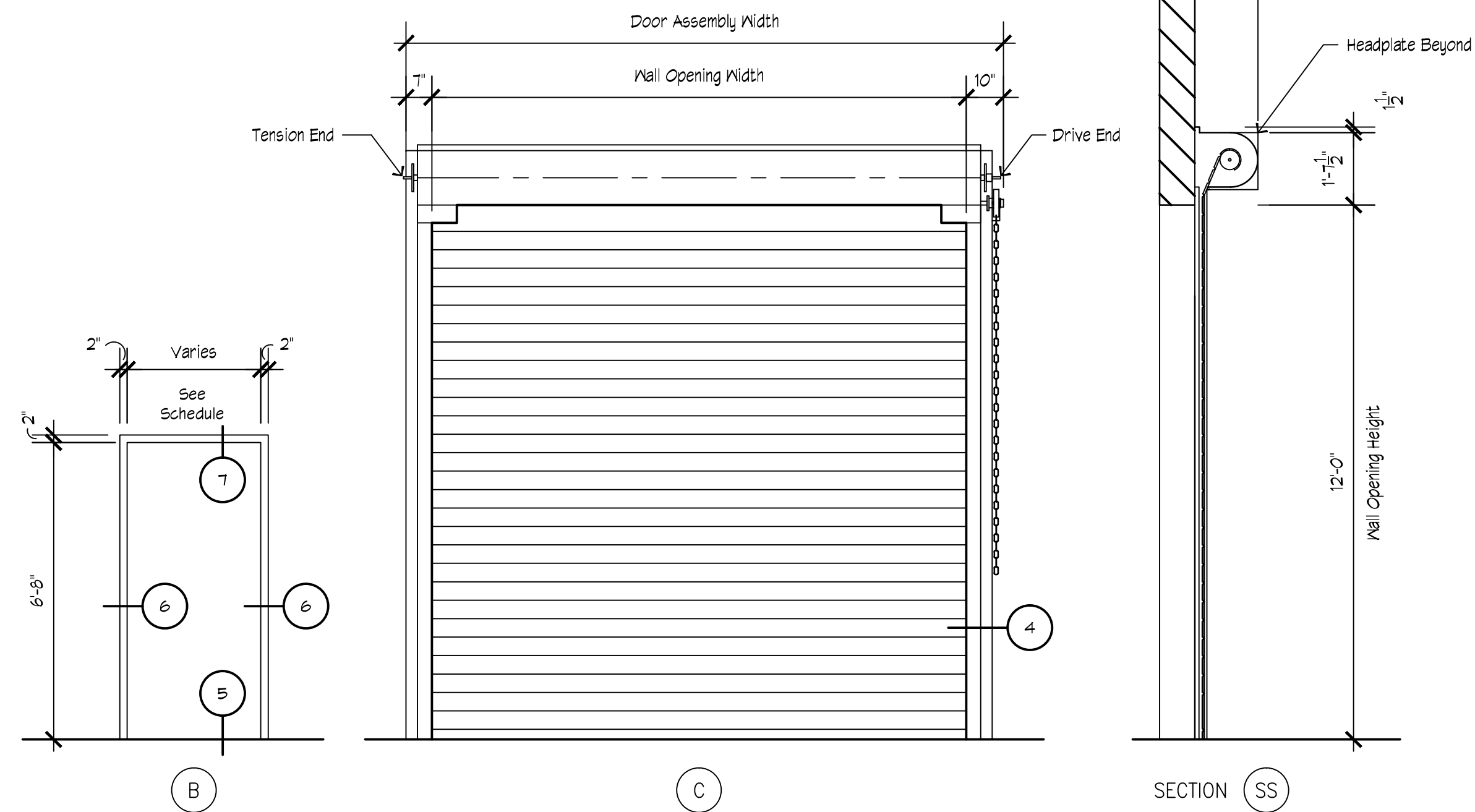
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Sheet Title:  
 BUILDING SECTIONS  
 Drawn By: S F  
 Scale: AS NOTED  
 Date: 03/11/2024  
 Job No.: 2201  
 Sheet No.:

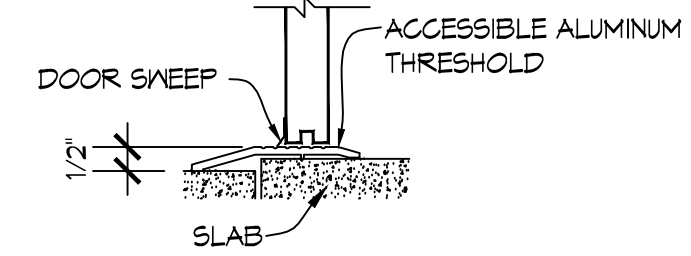
**A6.1**

**FOR PRICING**

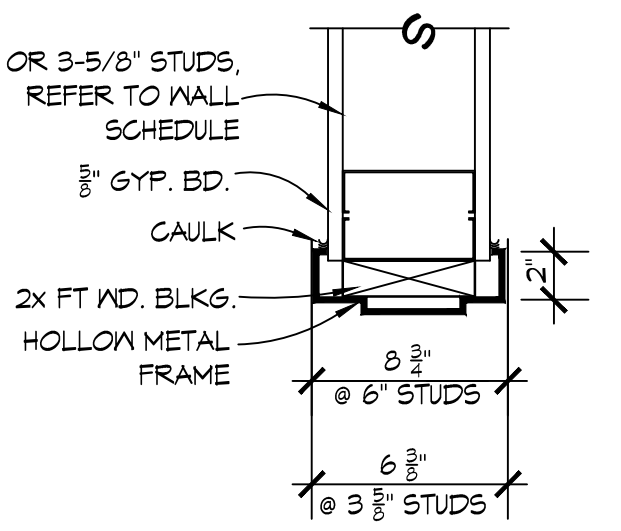


11 DOOR ELEVATIONS  
SCALE: 3/8"=1'-0"

DOOR										FRAME				
NO.	EL.	SIZE	TH.	MAT.	LABEL	FINISH	REMARKS	MAT.	HEAD	JAMB	SILL	LABEL	FINISH	REMARKS
101A	B	3'-0" x 7'-0"	1 3/4"	METAL	---	PAINT	---	H.M.	---	---	3/A8.1	---	PAINT	---
101B	B	4'-0" x 7'-0"	1 3/4"	METAL	---	PAINT	---	H.M.	---	---	3/A8.1	---	PAINT	---
102A	B	3'-0" x 7'-0"	1 3/4"	METAL	---	PAINT	---	H.M.	---	---	3/A8.1	---	PAINT	---
102B	B	3'-0" x 7'-0"	1 3/4"	METAL	---	PAINT	---	H.M.	---	---	3/A8.1	---	PAINT	---
103A	B	3'-0" x 7'-0"	1 3/4"	METAL	---	PAINT	---	H.M.	---	1/A8.1	---	---	PAINT	---
103B	B	3'-0" x 7'-0"	1 3/4"	METAL	---	PAINT	---	H.M.	---	1/A8.1	---	---	PAINT	---
104	B	3'-0" x 7'-0"	1 3/4"	METAL	---	PAINT	---	H.M.	---	1/A8.1	---	---	PAINT	---
105	B	3'-0" x 7'-0"	1 3/4"	METAL	---	PAINT	---	H.M.	---	1/A8.1	---	---	PAINT	---
106	B	3'-0" x 7'-0"	1 3/4"	METAL	---	PAINT	---	H.M.	---	1/A8.1	---	---	PAINT	---
107	B	3'-0" x 7'-0"	1 3/4"	METAL	---	PAINT	---	H.M.	---	1/A8.1	---	---	PAINT	---
108	B	3'-0" x 7'-0"	1 3/4"	METAL	---	PAINT	---	H.M.	---	1/A8.1	---	---	PAINT	---
109	B	12'-0" x 12'-0"	1"	METAL	---	PAINT	COMMERCIAL ROLLING DOOR	METAL	---	---	6/A8.1	---	PAINT	---
110	B	12'-0" x 12'-0"	1"	METAL	---	PAINT	COMMERCIAL ROLLING DOOR	METAL	---	---	6/A8.1	---	PAINT	---
111	B	16'-0" x 12'-0"	1"	METAL	---	PAINT	COMMERCIAL ROLLING DOOR	METAL	---	---	6/A8.1	---	PAINT	---

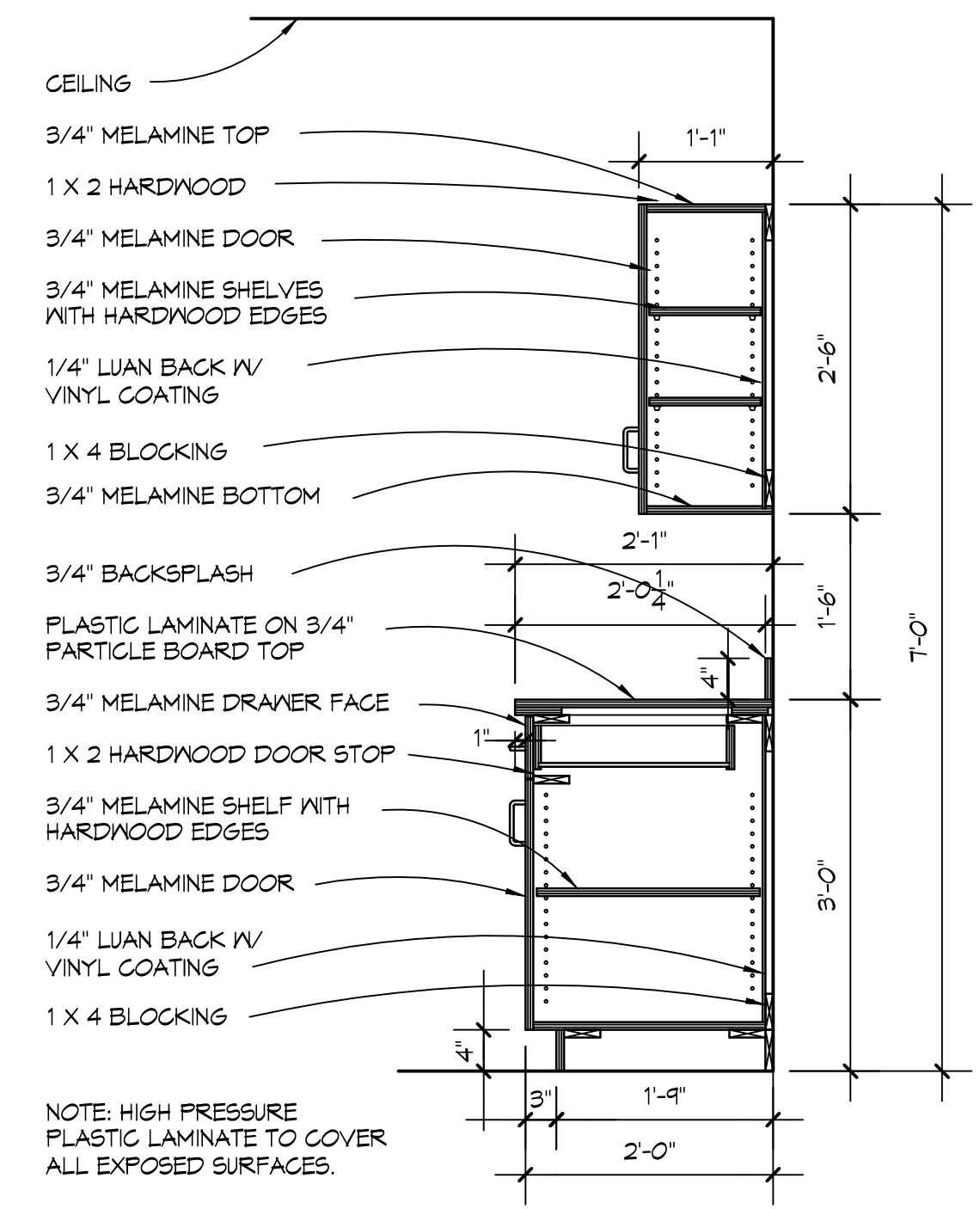


3 SILL DETAIL  
SCALE: 1-1/2"=1'-0"

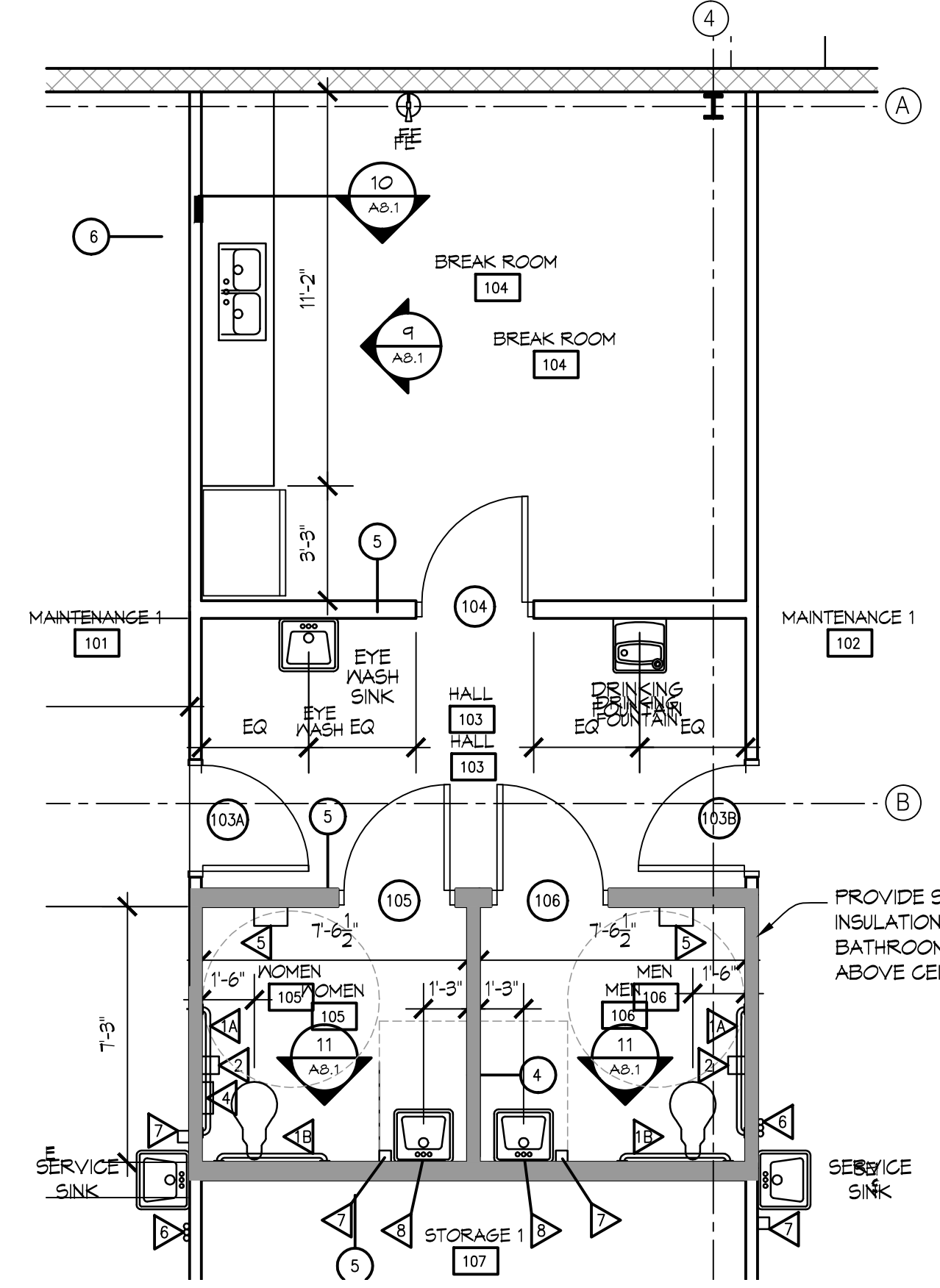


1 JAMB DETAIL  
SCALE: 1-1/2"=1'-0"

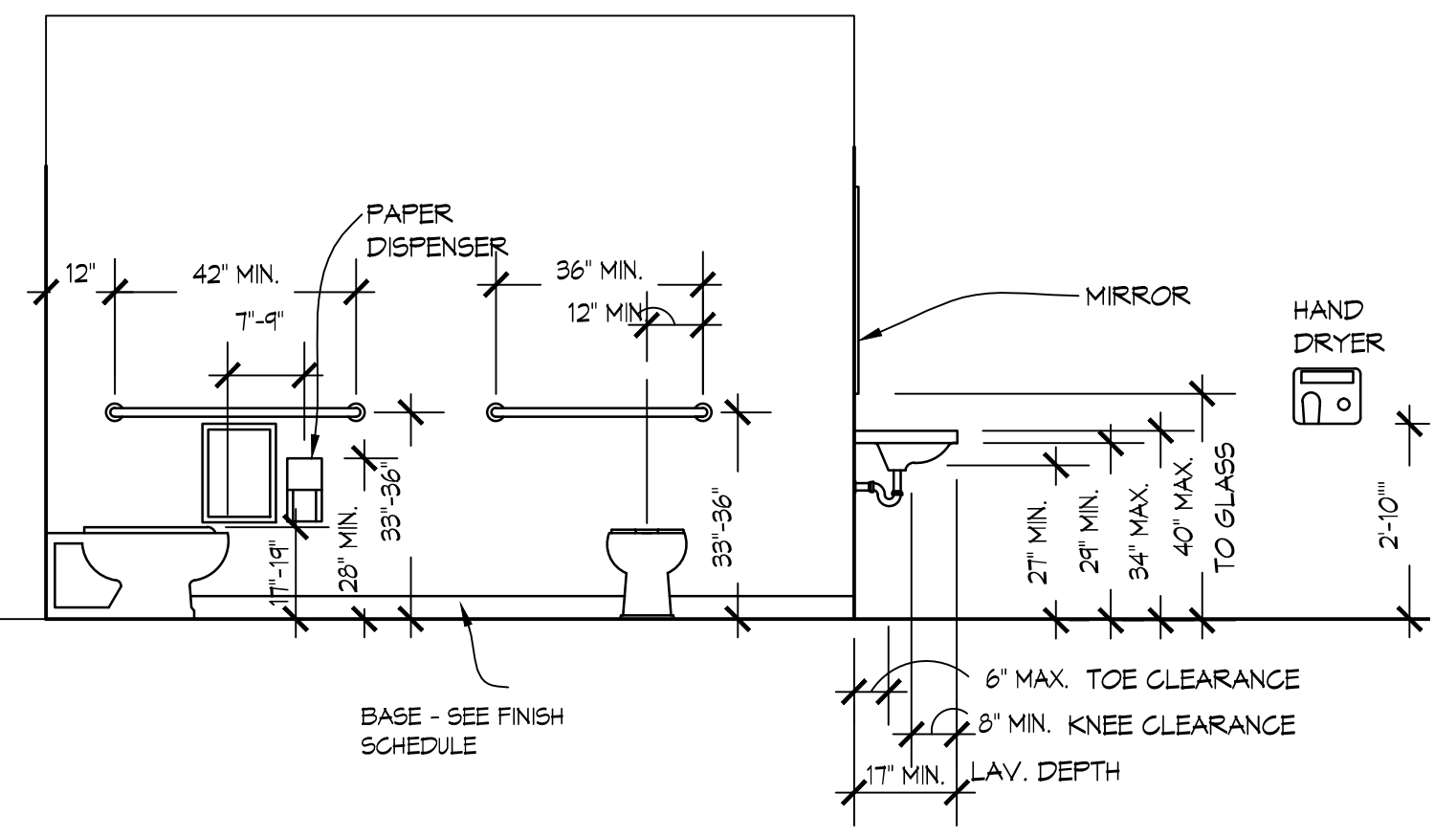
FINISH SCHEDULE						
NO.	ROOM	FLOOR	BASE	WALLS	CEILING	REMARKS
101	MAINTENANCE 1	POLISHED CONCRETE	RB-1	PT-1	OPEN	--
102	MAINTENANCE 2	POLISHED CONCRETE	RB-1	PT-1	OPEN	--
103	HALL	POLISHED CONCRETE	RB-1	PT-2	ACT	--
104	BREAK ROOM	POLISHED CONCRETE	RB-1	PT-2	ACT	--
105	WOMEN	POLISHED CONCRETE	RB-1	PT-2	ACT	--
106	MEN	POLISHED CONCRETE	RB-1	PT-2	ACT	--
107	TOOLS 1	POLISHED CONCRETE	RB-1	PT-1	OPEN	--
108	TOOLS 2	POLISHED CONCRETE	RB-1	PT-1	OPEN	--



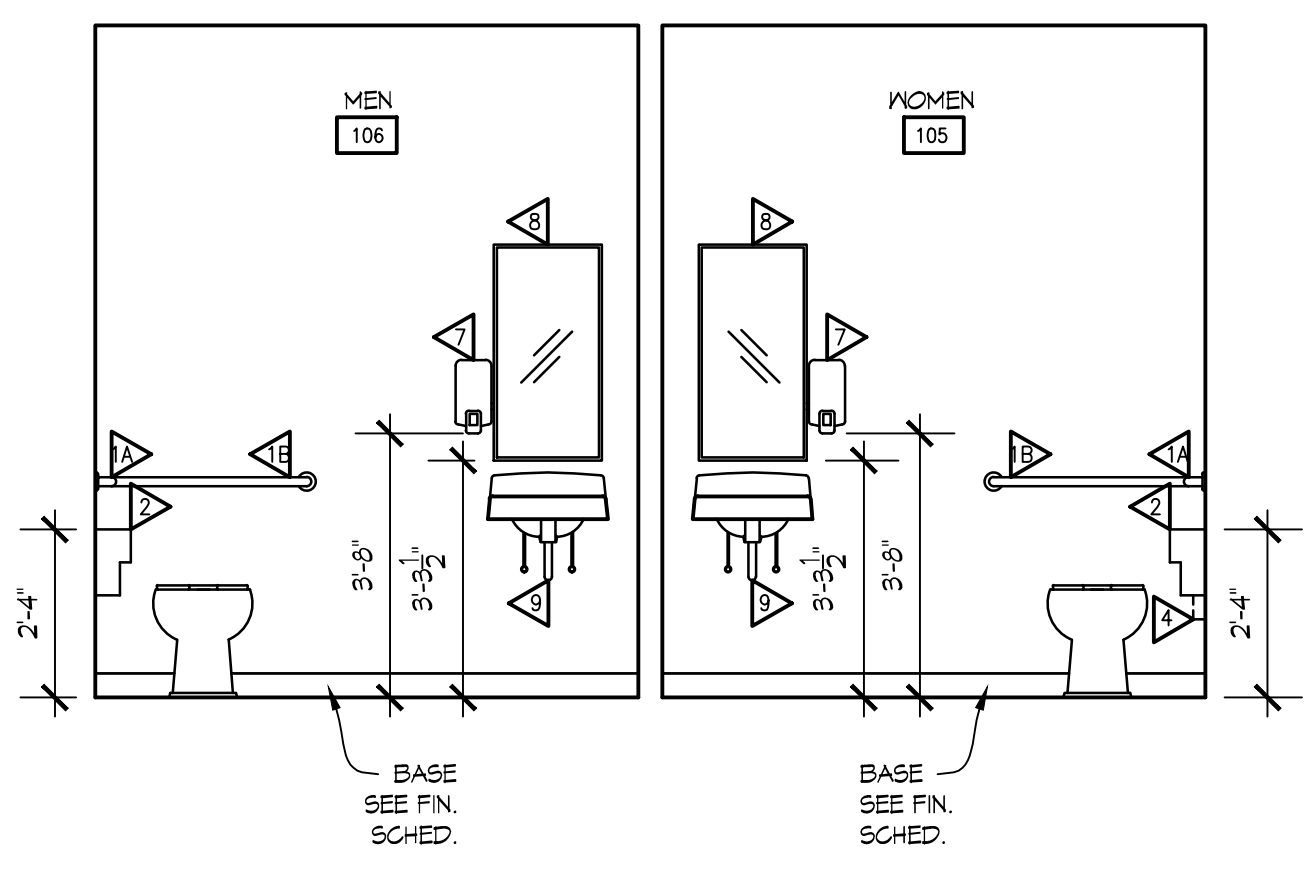
10 CABINET SECTION  
SCALE: 3/4"=1'-0"



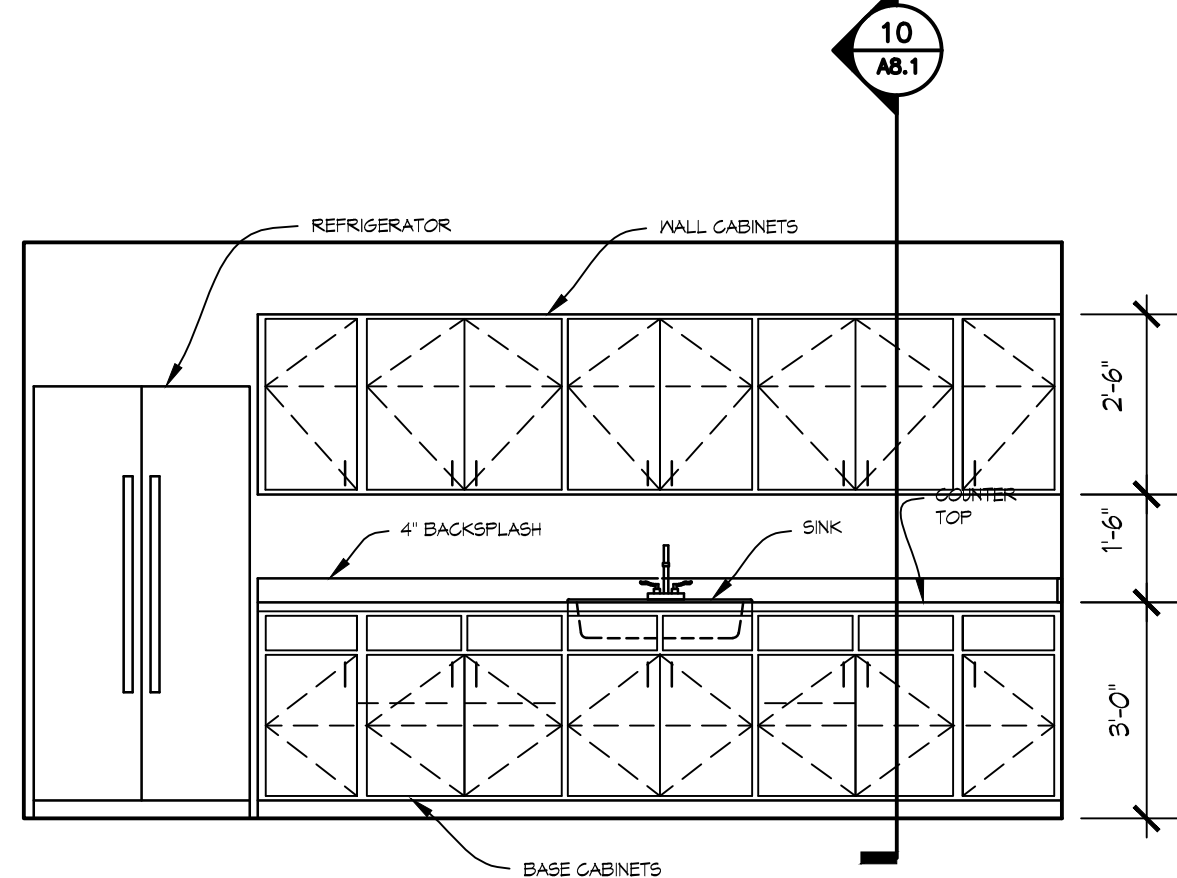
8 CLOSEUP FLOOR PLAN  
SCALE: 1/4"=1'-0"



8 ACCESSIBLE TOILET ELEVATIONS  
SCALE: 3/8"=1'-0"



11 MEN'S & WOMEN'S ELEVATIONS  
SCALE: 3/8"=1'-0"



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

ACCESSORY SCHEDULE				
MK	DESCRIPTION	MANUF.	MODEL NO.	REMARKS
▲	GRAB BAR	BRADLEY	812 (001-42)	33"-36" A.F.F. MOUNTING HEIGHT
▲	GRAB BAR	BRADLEY	812 (001-36)	33"-36" A.F.F. MOUNTING HEIGHT
▲	TOILET TISSUE DISPENSER - BY OWNER	BRADLEY	5425	ONE AT EACH WATER CLOSET
▲	NOT USED			
▲	SANITARY NAPKIN DISPOSAL	BRADLEY	4781-15	SURFACE MOUNT ON CMU WALL OR NON-MASONRY PARTITION
▲	HAND DRYER	EXCEL	XLERATOR XL-14	2'-10" MOUNTING HEIGHT
▲	MOP CLIP STRIP - 3 CLIPS	BRADLEY	9953	MOUNT 6'-0" AFF
▲	SOAP DISPENSER - BY OWNER	PALMOLIVE	800 mL GRAY	ONE AT EACH LAVATORY - OWNER PROVIDED
▲	MIRROR (18" X 36")	BOBRICK	B-942	MOUNT 40" TO BOTTOM EDGE OF MIRROR
▲	PIPE INSULATION	TRUEBRO, INC.	101-S	AT EACH LAVATORY

NOTE: PROVIDE THRU-BOLT ATTACHMENT AND FOR PARTITION MOUNTED ACCESSORIES, TYPICAL. PROVIDE WOOD BLOCKING AT WALL MOUNTED ACCESSORIES, TYPICAL.

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Revisions:

NO.	DATE	DESCRIPTION

**Cobb County Parks  
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Sheet Title:  
DOOR & FINISH SCHEDULES & DETAILS  
Drawn By: S F  
Scale: AS NOTED  
Date: 03/11/2024  
Job No.: 2201  
Sheet No.:

A8.1

**GENERAL NOTES:**

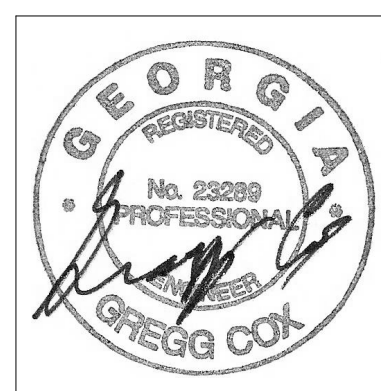
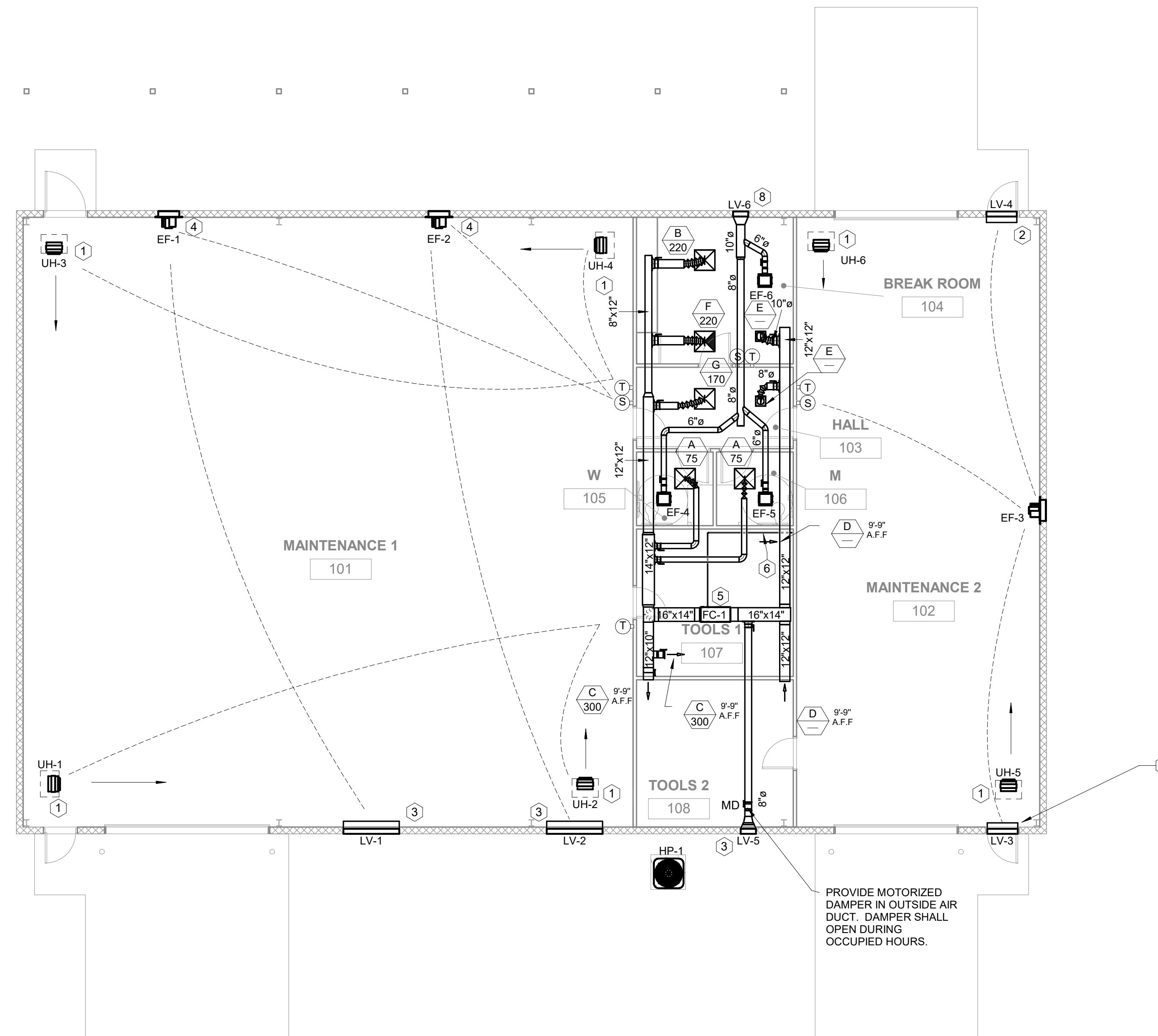
- ALL DUCT PENETRATIONS THROUGH WALLS SHALL BE SEALED. THE INTERSTITIAL SPACE BETWEEN THE DUCT AND WALL SHALL BE SEALED WITH CAULK WHEN FIRE, SMOKE, OR FIRE-SMOKE DAMPERS ARE USED. REFER TO THE MANUFACTURERS REQUIREMENTS FOR SEALING.
- ALL SUPPLY DIFFUSERS SHALL HAVE A MINIMUM THROW OF 10 FEET AT 100 FPM FOR FULL ROOM COVERAGE.
- ALL FIRE DAMPERS AND FIRE/SMOKE DAMPERS SHALL HAVE A MINIMUM FIRE RESISTANCE RATING OF 1-1/2 HOURS U.N.O.
- ALL MECHANICAL EQUIPMENT SHALL BE CONTROLLED BY A COMPUTERIZED ENERGY MANAGEMENT SYSTEM.
- TRANSITION FROM SHOWN DUCT SIZE TO WALL GRILLE NECK SIZE.
- MECHANICAL CONTRACTOR SHALL COORDINATE AND PROVIDE ACCESS PANELS TO THE GENERAL CONTRACTOR TO INSTALL AS REQUIRED IN SPECIFICATION.
- THE BID DOCUMENTS ARE DESIGNED BASED ON THE BASIS OF DESIGN. IF A LISTED "EQUAL" IS USED IT IS THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO MAKE ANY REVISIONS AND MODIFICATIONS REQUIRED TO ACCOMMODATE THE "EQUAL" MANUFACTURER AT NO ADDITIONAL COST TO THE OWNER.
- PROVIDE AN EMERGENCY STOP BUTTON (MUSHROOM TYPE WITH COVER) LOCATED IN ADMINISTRATION AREA TO SHUT DOWN ALL EXHAUST FANS AND CLOSE ALL OUTSIDE AIR DAMPERS WHEN DEPRESSED.
- MINIMUM 10' SEPARATION BETWEEN O.A. INTAKES AND EXHAUST OR PLUMBING VENTS.
- COORDINATE THE EXACT LOCATION OF WALL MOUNTED SWITCHES AND SENSORS WITH DIVISION 26.
- PROVIDE & INSTALL STEPDOWN TRANSFORMERS AS REQUIRED WHEN 120V IS PROVIDED FOR A 24V DEVICE.
- ALL SUPPLY AND EXHAUST BRANCH DUCTS SHALL BE PROVIDED WITH VOLUME DAMPERS - ROUND AND RECTANGULAR DAMPERS SHALL BE PROVIDED WITH CONTINUOUS SQUARE SHAFT, END BEARINGS, 2" STANDOFF BRACKET AND LOCKING QUADRANTS.
- WHERE DUCT MOUNTED SMOKE DETECTOR ARE REQUIRED FOR HVAC EQUIPMENT SHUT DOWN, THE DUCT MOUNTED SMOKE DETECTORS SHALL BE INSTALLED IN THE SUPPLY DUCT OF UNIT SERVED PRIOR TO ANY BRANCH DUCTS.
- VOLUME DAMPERS SHALL ACCESSIBLE VIA A STEP LADDER AND REACHING ABOVE THE CEILING.
- BRANCH DUCTWORK SHALL BE THE SAME SIZE AS THE AIR DISTRIBUTION DEVICE SERVED U.N.O.
- HVAC SYSTEM COMPONENT LOCATIONS ARE DIAGRAMMATIC IN NATURE. COORDINATE EQUIPMENT LOCATIONS WITH DUCTWORK, PIPING, CONDUIT, CABLING, & STRUCTURAL MEMBERS TO ENSURE THAT ALL MANUFACTURER'S REQUIRED CLEARANCES ARE MET. COORDINATE ROOF MOUNTED EQUIPMENT LOCATIONS WITH STRUCTURAL MEMBERS TO AVOID DUCT/STRUCTURE CONFLICTS.
- CONTRACTOR SHALL COORDINATE EQUIPMENT VOLTAGES WITH THE ELECTRICAL CONTRACTOR AND ELECTRICAL PLANS PRIOR TO ORDERING.
- ALL PENETRATIONS THROUGH A SMOKE PARTITION SHALL BE FIRE CAULKED AROUND THE PENETRATION SMOKE TIGHT. SEE ARCHITECTURAL LIFE SAFETY PLANS FOR WALL RATINGS.
- WHERE MULTIPLE SPACES ARE SERVED BY A SINGLE UNIT ALL EXHAUST AND RETURN AIR PATHS SHALL BE PROVIDED WITH A MANUAL BALANCING DAMPER. WHERE BALANCING DAMPER IS NOT SHOWN ON PLAN, THE EXHAUST/RETURN GRILLE SHALL BE PROVIDED WITH AN O.D. ROUND AND RECTANGULAR DAMPERS SHALL BE PROVIDED WITH CONTINUOUS SQUARE SHAFT, END BEARINGS, 2" STANDOFF BRACKET AND LOCKING QUADRANTS.
- RETURN GRILLES OPENING TO A RETURN AIR PLENUM SHALL BE PROVIDED WITH A SOUND BOOT. SEE DETAIL.
- WHERE MULTIPLE SENSORS (TEMP, HUMIDITY, AND CO2) ARE SHOWN IN ONE ROOM, A SINGLE MULTIFUNCTION SENSOR SHALL BE PROVIDED BY THE BUILDING CONTROLS PROVIDER.
- ALL EQUIPMENT SHALL BE LABELED PER SPECIFICATION REQUIREMENTS. EQUIPMENT LABELS SHALL INCLUDE UNIT NUMBER AND ROOM NAME AND NUMBER OF THE SPACE SERVED.
- DIFFUSERS LOCATED ADJACENT TO TEMPERATURE SENSORS SHALL BE 3-WAY BLOW TYPE PER DETAIL.
- WHERE RETURN DUCTWORK STUBS INTO MECHANICAL CLOSET, THE PERIMETER OF THE RETURN DUCT SHALL BE SEALED AT THE WALL PENETRATION.
- ALL DUCTWORK, PIPING ETC. SHALL BE CONCEALED. LOCATED ABOVE CEILING OR IN CHASE U.N.O.
- ALL EXHAUST FANS, RELIEF HOODS, FLUES AND PLUMBING VENTS SHALL BE A MINIMUM OF 10' FROM ANY OUTSIDE AIR INTAKES.
- CONTRACTOR SHALL COORDINATE ALL CONTROL DEVICE ELECTRICAL REQUIREMENTS AND LOCATIONS WITH ELECTRICAL CONTRACTOR.
- WHERE DUCTWORK, PIPING AND CONDUIT ARE NOT CONCEALED ABOVE A CEILING, THEY SHALL BE PAINTED. COORDINATE COLOR WITH GENERAL CONTRACTOR AND ARCHITECT.
- WHERE DAMPERS, VALVES AND EQUIPMENT ARE LOCATED ABOVE A HARD CEILING, ACCESS PANELS SHALL BE PROVIDED AND INSTALLED. ACCESS PANELS SHALL BE A MINIMUM OF 8'x18" BUT SHALL BE LARGE ENOUGH TO PROVIDE ACCESS TO CONCEALED DEVICES. IF ACCESS PROVIDED IS NOT LARGE ENOUGH TO PROVIDE ACCESS TO CONCEALED DEVICE, THE ACCESS PANEL SHALL BE REPLACED WITH THE APPROPRIATE SIZE ACCESS PANEL. CONTRACTOR SHALL DEMONSTRATE ADEQUATE ACCESS HAS BE ACHIEVE TO THE OWNER.
- MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCTWORK NOTED TO BE ROUTED IN THE JOIST BAY AND WEB WITH THE GENERAL CONTRACTOR FOR COORDINATION WITH THE STRUCTURAL FABRICATOR. THE GENERAL CONTRACTOR SHALL COORDINATE CROSS BRACING BETWEEN JOIST AND ROUTING OF DUCTWORK WITHIN JOIST.

**KEYNOTE:**

- MOUNT UNIT HEATER MINIMUM OF 10' A.F.F.
- INSTALL LOUVER 12" ABOVE DOOR FRAME TO BOTTOM
- INSTALL LOUVER 10' A.F.F TO CENTER LINE
- INSTALL EXHAUST FAN 10' A.F.F TO CENTERLINE
- NEW FAN COIL SHALL BE INSTALLED ON CEILING
- ROUTE CONDENSATE DOWN TO FLOW DRAIN. PROVIDE COVER OVER CONDENSATE PIPE (SIMILAR TO REFRIGERANT PIPE COVER - SEE DETAIL)
- SUPPLY, RETURN, AND EXHAUST DUCTS SHALL BE INSTALLED MINIMUM 9'-9" A.F.F
- INSTALL LOUVER 10'-8" A.F.F TO CENTER LINE

DRAWING LEGEND			
SYMBOL	DEFINITION	SYMBOL	DEFINITION
	SUPPLY DIFFUSER		RETURN GRILLE
	AIR DEVICE DESIGNATOR		THERMOSTAT
	SIDEWALL GRILLE DESIGNATOR, A.F.F. HEIGHT IS TO BOTTOM OF GRILLE FACE		DUCTWORK OFFSETS
	SWITCH		CARBON DIOXIDE SENSOR
	SPIN-IN WITH VOLUME DAMPER		MANUAL VOLUME DAMPER
	UNIT HEATER		EXHAUST FAN
	FAN COIL		LOUVER
	HEAT PUMP UNIT		MOTORIZED DAMPER
	UNLESS NOTED OTHERWISE		ABOVE FINISHED FLOOR

➔ 1 HVAC FLOOR PLAN  
1/8" = 1'-0"



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Revisions:

No.	Description

**Cobb County Parks  
New Maintenance Building**  
1792 County Services Parkway  
Marietta, GA 30008

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Sheet Title:  
**HVAC FLOOR PLAN**

Drawn By: co

Scale: AS NOTED

Date: 01/13/2023

Job No.: 2209

Sheet No.:  
**M1.0**

**MBA**  
CONSULTING ENGINEERS  
MBA# 2247  
MATHESON-BALL & ASSOCIATES, INC.  
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WWW.MATHESONBALL.COM  
**PERMIT PACKAGE**

SPLIT SYSTEM SCHEDULE												
MARK	CFM	OA CFM	E.S.P. (" W.G.)	HP	SENSIBLE (MBH)	TOTAL (MBH)	REV. CYCLE (MBH)	KW	BASIS OF DESIGN: TRANE	DIMENSION	NOTES	
FC-1 / HP-1	1600	220	0.50	.75	36.4	47.4	28.7	5.7	FAN COIL: GAMS50C48 HEAT PUMP: 4TWR404	FC-1:H-62",W-21",L-17.125" HP-1:H-45.125",W-37.25",L-34.25"	1,2,3	

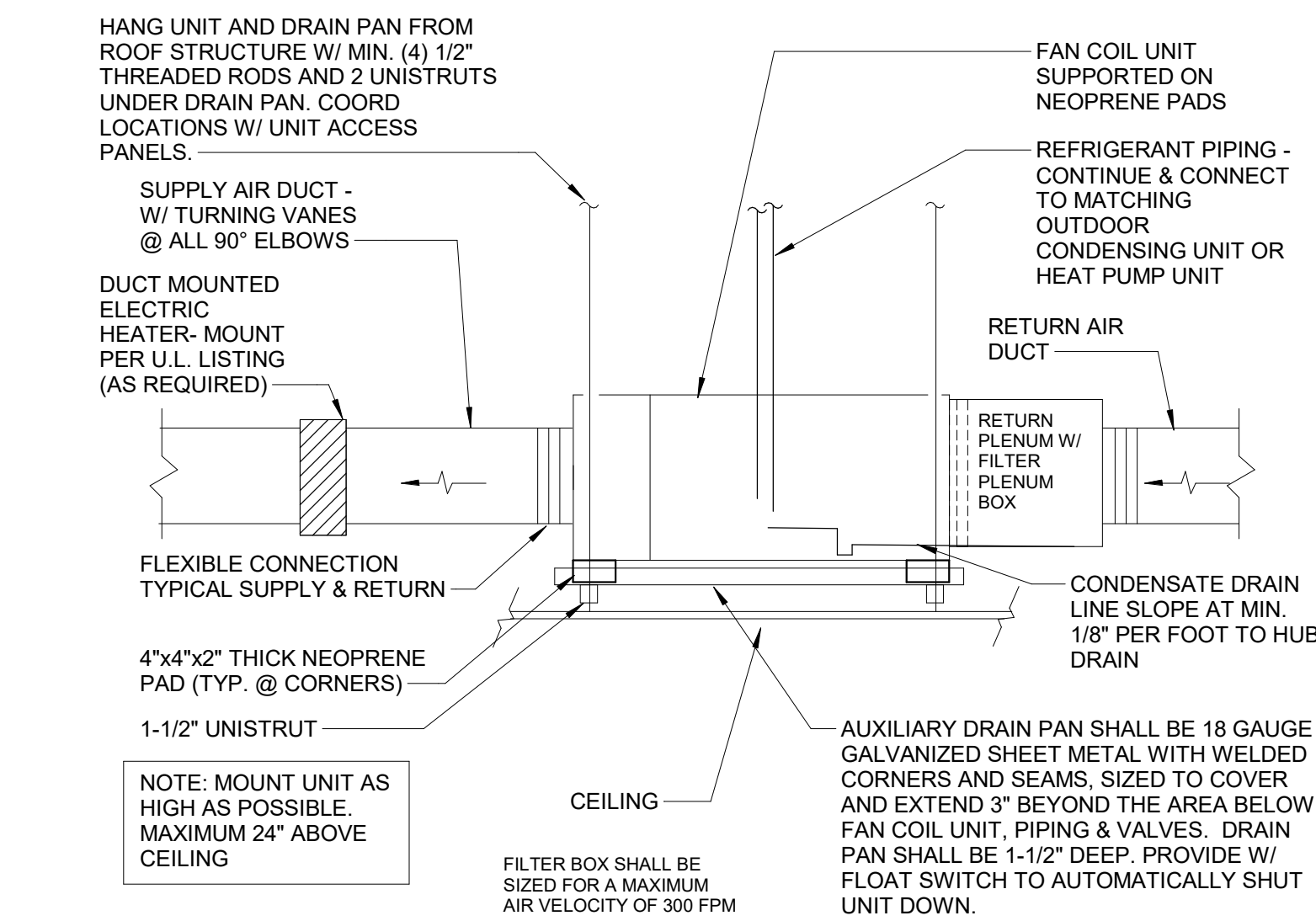
- NOTES:**
1. MOUNT UNIT ON INTERNALLY LINED SHEET METAL RETURN PLENUM SUPPORTED BY ANGLE IRON FRAME PER DETAIL.
  2. COOLING CAPACITIES BASED ON A.H.R.I. STANDARD CONDITIONS. COOLING CAPACITIES ARE BASED ON 95°F OUTDOOR TEMPERATURE AND 80°Fdb / 67°Fwb RETURN.
  3. "E.S.P." LISTED DOES NOT INCLUDE EVAPORATOR COIL PRESSURE DROP - "E.S.P." LISTED INCLUDES DUCTWORK AND AIR DISTRIBUTION DEVICES.

FAN SCHEDULE								
MARK	CFM	DRIVE	E.S.P. (IN. W.G.)	HP	TYPE	SERVICE	BASIS OF DESIGN	NOTES
EF-1	10000	DIRECT	0.38	2.00	SIDEWALL	101 MAINTENANCE 1	GREENHECK AER30-03-315-VG	2,3,4
EF-2	10000	DIRECT	0.38	2.00	SIDEWALL	101 MAINTENANCE 1	GREENHECK AER30-03-315-VG	2,3,4
EF-3	7000	DIRECT	0.35	2.00	SIDEWALL	102 MAINTENANCE 2	GREENHECK AER30-03-0315	2,3,4
EF-4	75	DIRECT	0.4	0.06	CEILING	105 W	GREENHECK SP-A200	1,2
EF-5	75	DIRECT	0.4	0.06	CEILING	106 M	GREENHECK SP-A200	1,2
EF-6	100	DIRECT	0.4	0.06	CEILING	104 BREAK ROOM	GREENHECK SP-A200	1,2

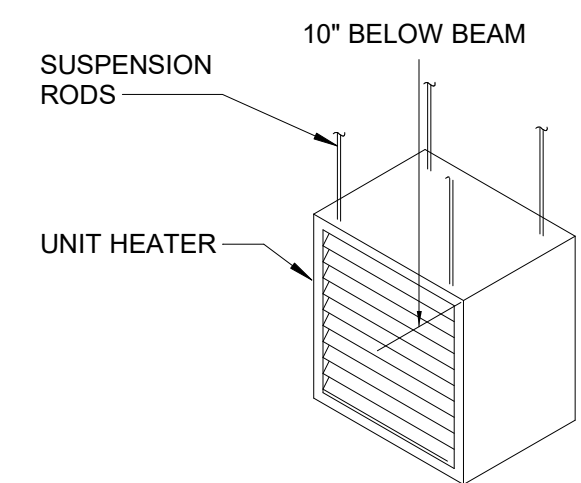
- NOTES:**
1. PROVIDE WITH BACKDRAFT DAMPER AND SPEED CONTROLLER.
  2. CONTROL BY WALL SWITCH - PROVIDE WITH TRANSFORMER AND RELAYS AS REQUIRED. - DIVISION 23.
  3. INTERLOCK FAN WITH LOUVER MOTORIZED DAMPER. DAMPER SHALL OPEN WHEN FAN IS ENABLED.
  4. PROVIDE WITH WALL MOUNT HOUSING, MOTORIZED DAMPER, AND OUTLET OSHA GUARD.

AIR DISTRIBUTION SYSTEM							
AD MARK	TYPE	SIZE IN INCHES			FINISH	BASIS OF DESIGN	NOTES
		FACE	BACKPAN	NECK			
A	SUPPLY	24 x 24	18 x 18	6"	WHITE	TITUS TDC	1
B	SUPPLY	24 x 24	18 x 18	10"	WHITE	TITUS TDC	1
C	SUPPLY	8 x 8	N/A	6 x 6	WHITE	TITUS 300RS	
D	RET/EXH	14 X 10	N/A	12 X 8	WHITE	TITUS 350RL	
E	RET/EXH	12 x 12	N/A	10 x 10	WHITE	TITUS 50F	
F	SUPPLY	24 x 24	18 x 18	10"	WHITE	TITUS TDC 3-WAY	1,2
G	SUPPLY	8 x 8	18 x 18	6 x 6	WHITE	TITUS TDC	1

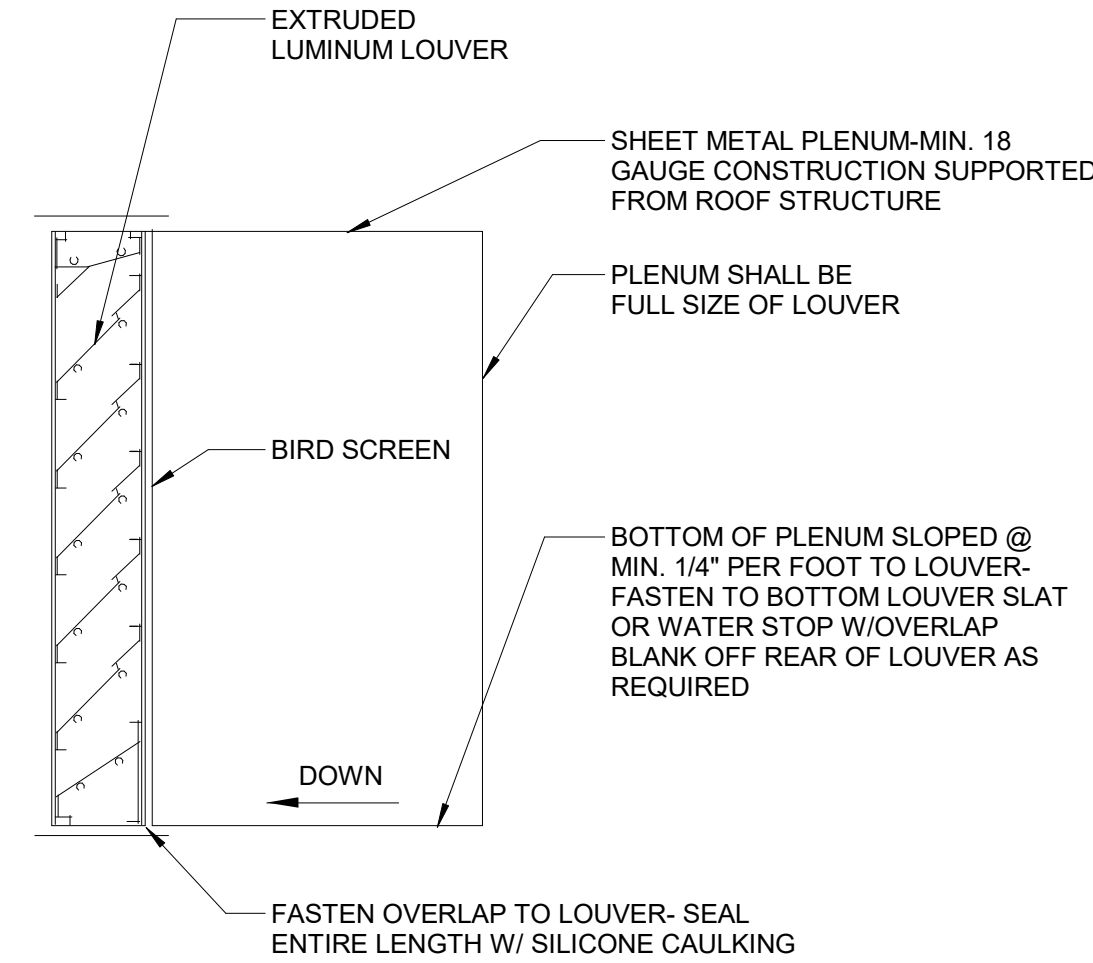
- NOTES:**
1. PROVIDE TRANSITION FROM SQUARE NECK TO ROUND NECK.
  2. DIFFUSER SHALL BE 3-WAY BLOW TYPE. SEE DETAIL.



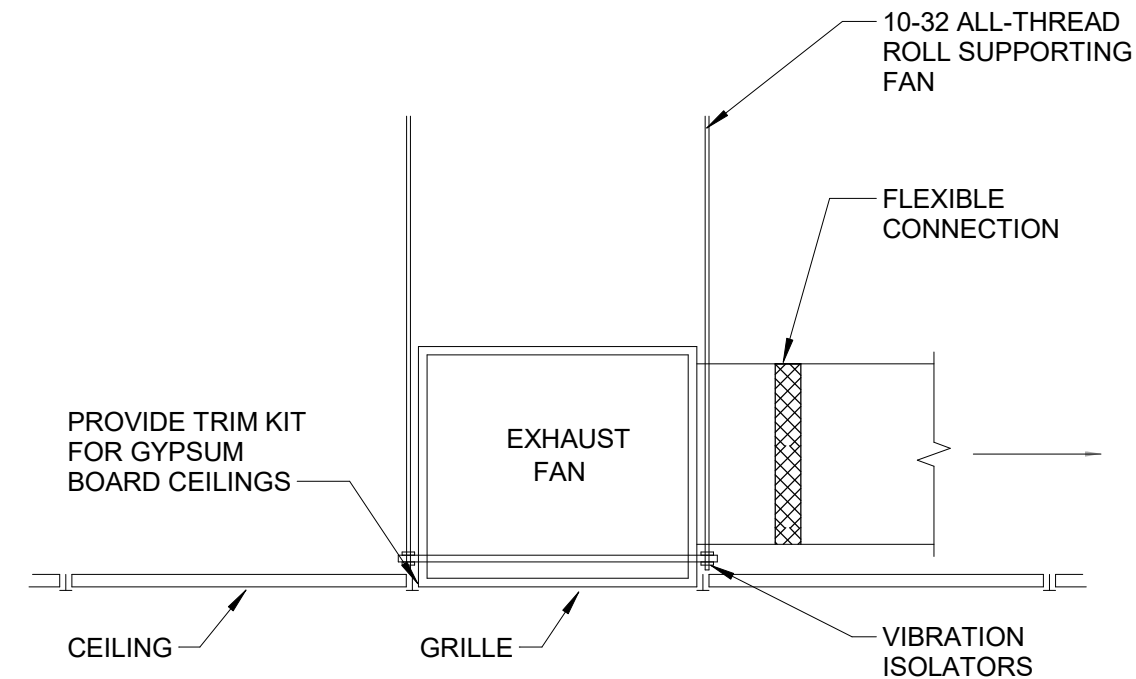
③ HORIZONTAL FAN - COIL UNIT INSTALLATION DETAIL  
SCALE: NONE



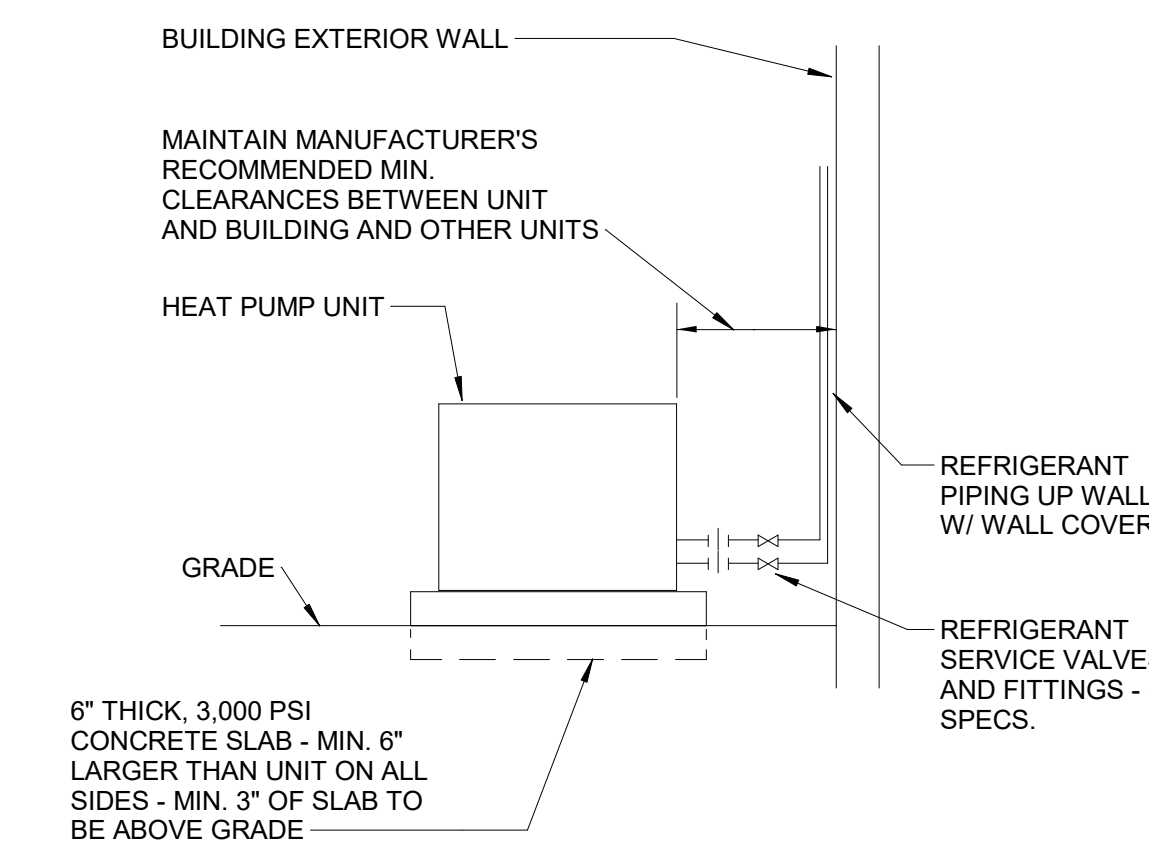
① UNIT HEATER DETAIL  
SCALE: NONE



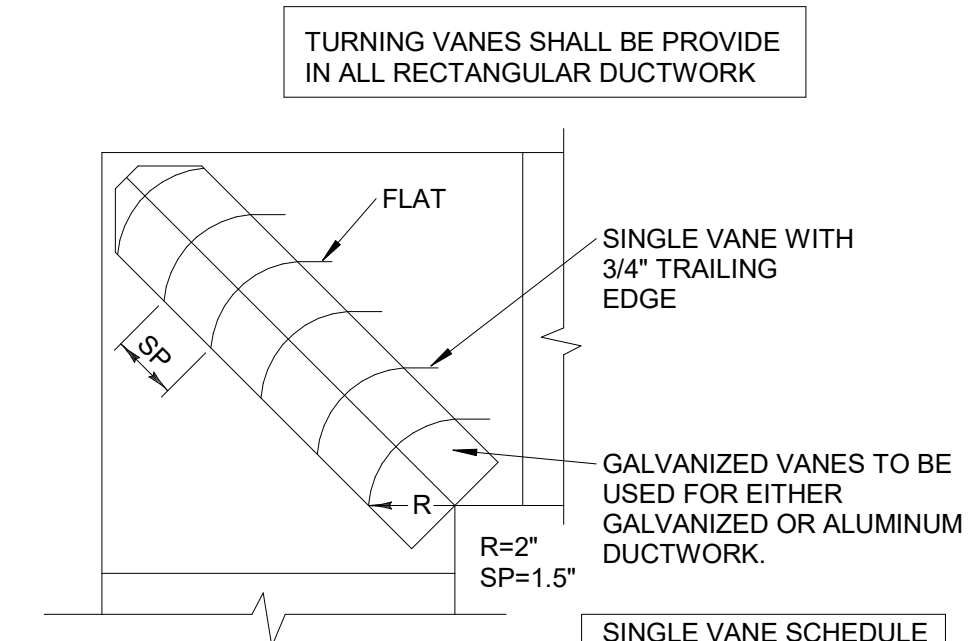
② LOUVER/ PLENUM MOUNTING DETAIL - TYPICAL  
SCALE: NONE



④ CEILING MOUNTED EXHAUST FAN DETAIL  
SCALE: NONE



⑤ OUTDOOR HEAT PUMP UNIT DETAIL  
SCALE: NONE



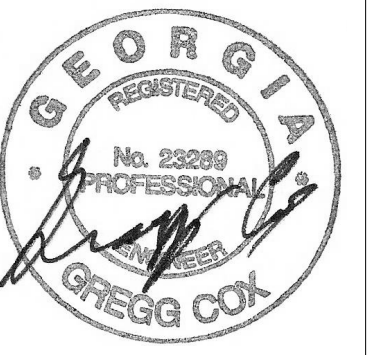
⑥ SQUARE ELBOW WITH TURNING VANES  
SCALE: NONE

ELECTRIC HEATER SCHEDULE					
MARK	KW	CFM	LOCATION	BASIS OF DESIGN	NOTES
UH-1	15.0	910	101 MAINTENANCE	QMARK MUH-15-8	1,2
UH-2	15.0	910	101 MAINTENANCE	QMARK MUH-15-8	1,2
UH-3	15.0	910	101 MAINTENANCE	QMARK MUH-15-8	1,2
UH-4	15.0	910	101 MAINTENANCE	QMARK MUH-15-8	1,2
UH-5	15.0	910	102 MAINTENANCE	QMARK MUH-15-8	1,2
UH-6	15.0	910	102 MAINTENANCE	QMARK MUH-15-8	1,2

- NOTES:**
1. SUPPORT FROM STRUCTURE WITH THREADED RODS
  2. PROVIDE REMOTE THERMOSTAT

LOUVER SCHEDULE					
MARK	SIZE	FREE AREA SQ. FT.	SERVICE	BASIS OF DESIGN	NOTES
LV-1	66"x48"	11.4	101 MAINTENANCE 1	GREENHECK ESD-603	1,2
LV-2	66"x48"	11.4	101 MAINTENANCE 1	GREENHECK ESD-603	1,2
LV-3	36"x36"	4.34	102 MAINTENANCE 2	GREENHECK ESD-603	1,2
LV-4	36"x36"	4.34	102 MAINTENANCE 2	GREENHECK ESD-603	1,2
LV-5	12"x16"	0.43	FC-1 OUTSIDE AIR	GREENHECK ESD-603	1,3
LV-6	12"x16"	0.43	104 BREAK RM & RR EXHAUST	GREENHECK ESD-603	1,2

- NOTES:**
1. COORDINATE CUSTOM COLOR FROM FULL RANGE OF COLORS WITH ARCHITECT. LOUVER SHALL HAVE A KYNAR FINISH.
  2. PROVIDE WITH MOTORIZED DAMPER INTERLOCKED WITH FAN SERVED.
  3. PROVIDE WITH MOTORIZED DAMPER INTERLOCKED WITH FC-1. MOTORIZED DAMPER SHALL OPEN WHEN FAN COIL IS IN OPERATION DURING OCCUPIED HOURS.



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Revisions:	

**Cobb County Parks  
New Maintenance Building**  
1792 County Services Parkway  
Marietta, GA 30008

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Sheet Title:  
**HVAC SCHEDULES & DETAILS**

Drawn By: CO

Scale: AS NOTED

Date: 01/13/20223

Job No.: 2209

Sheet No.:

**M2.0**

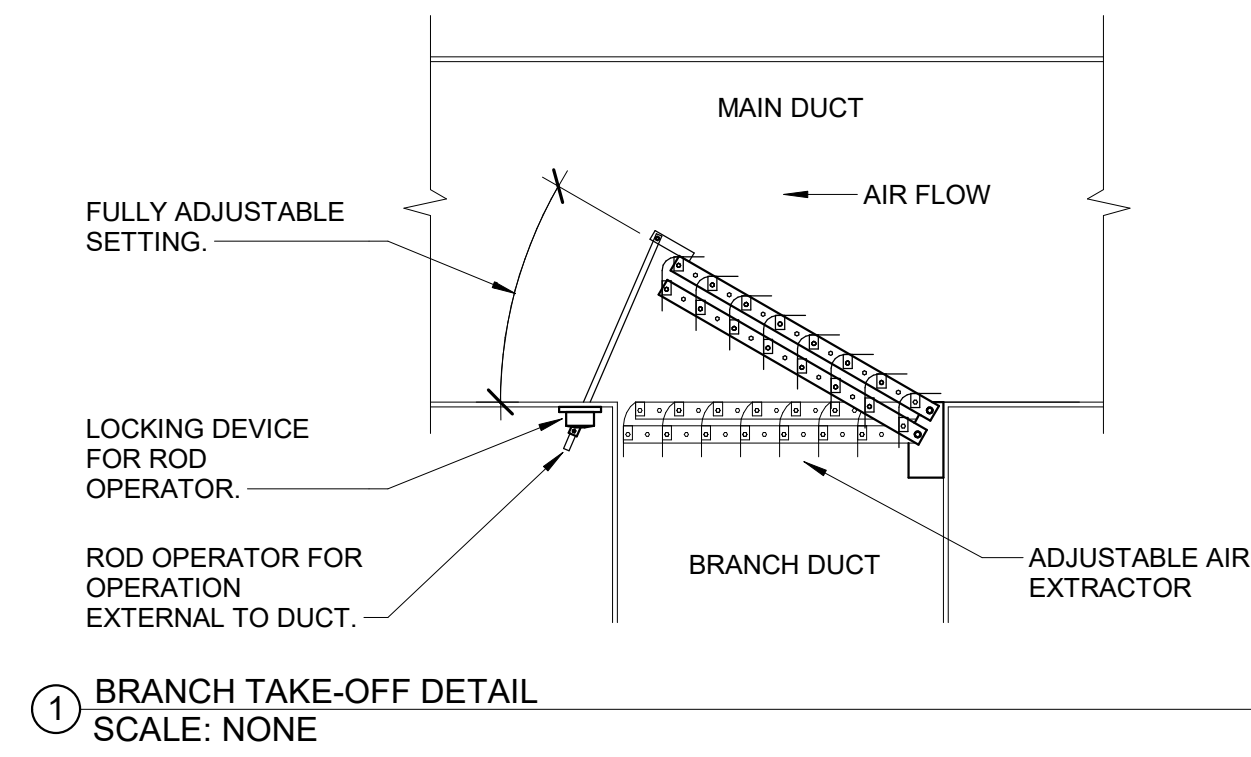


MBA# 2247

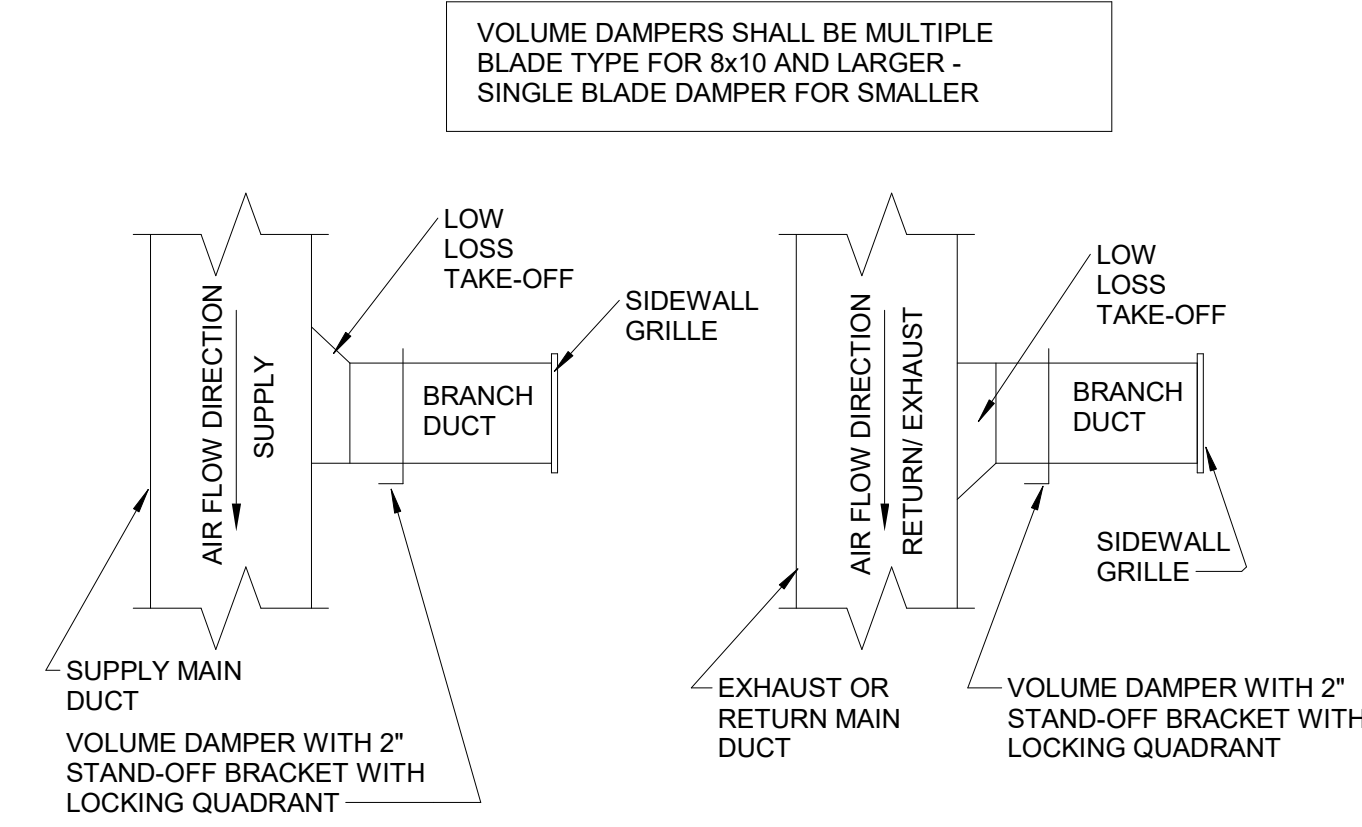
MATHESON-BALL & ASSOCIATES, INC.  
225 REFORMATION PARKWAY, SUITE 200  
DANTON, GA 30114  
PHONE: (770) 733-0773  
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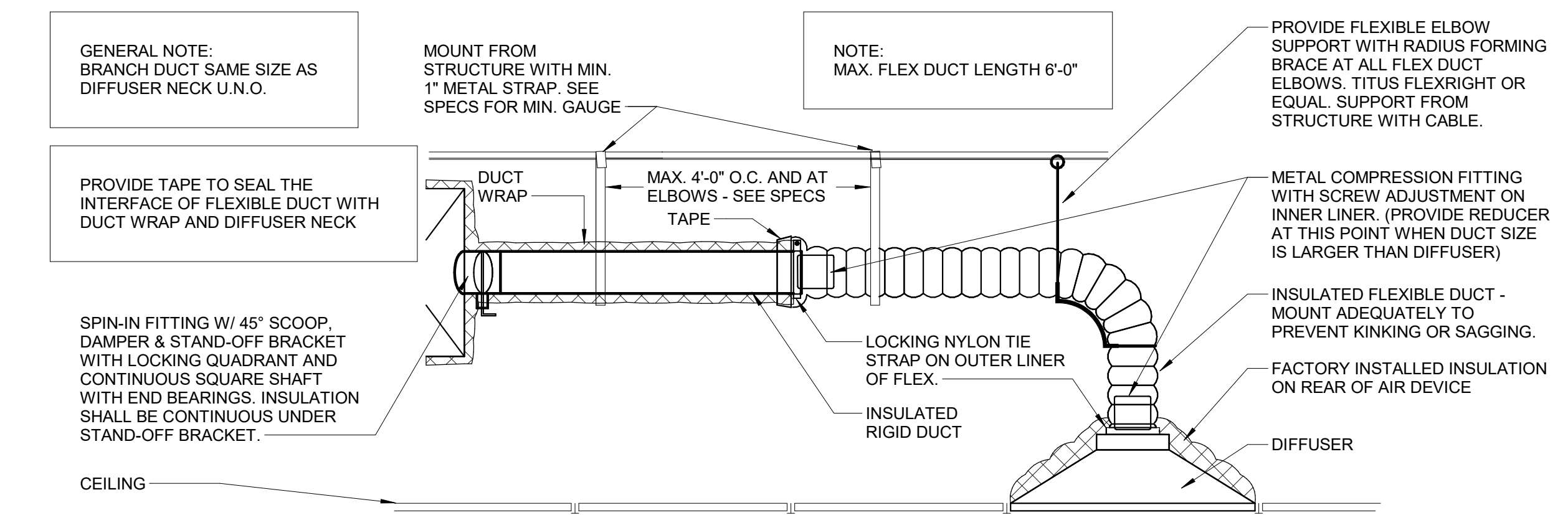




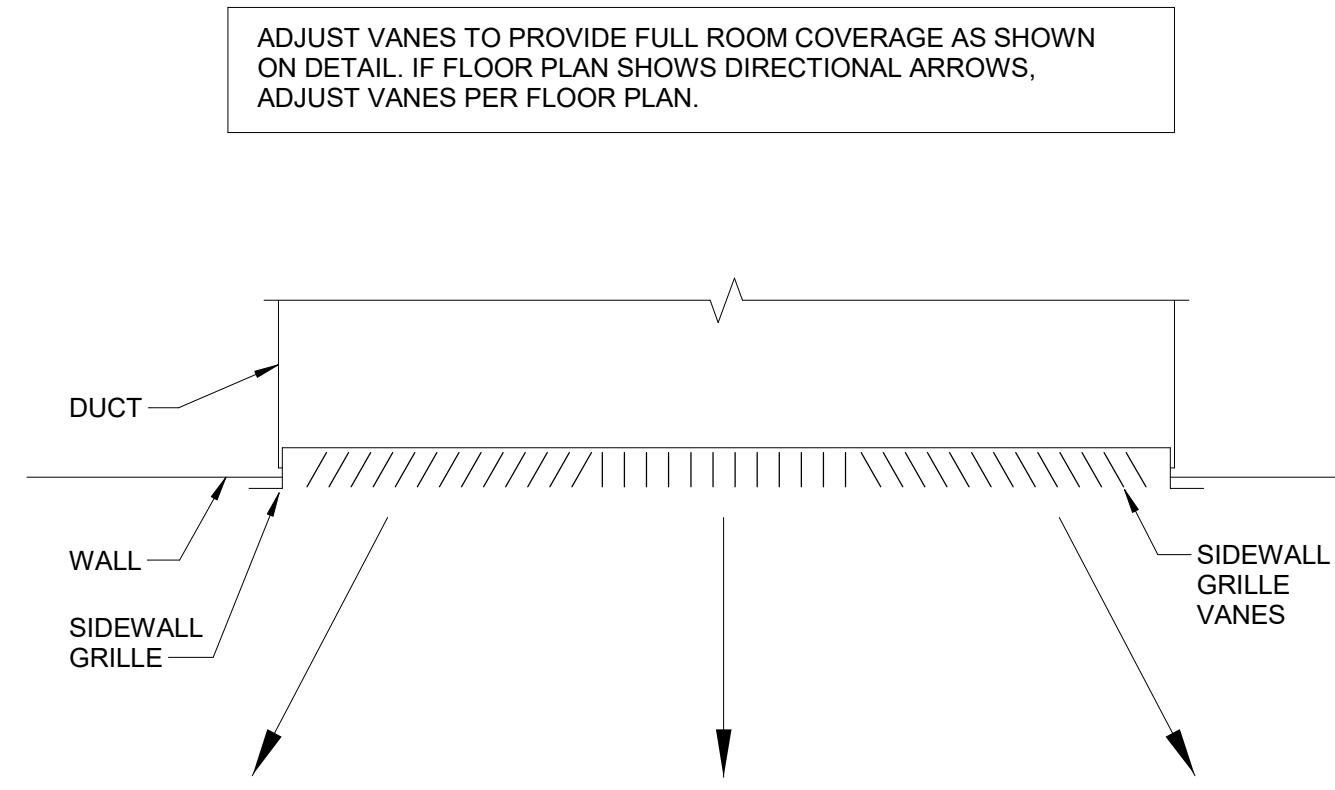
1 BRANCH TAKE-OFF DETAIL  
SCALE: NONE



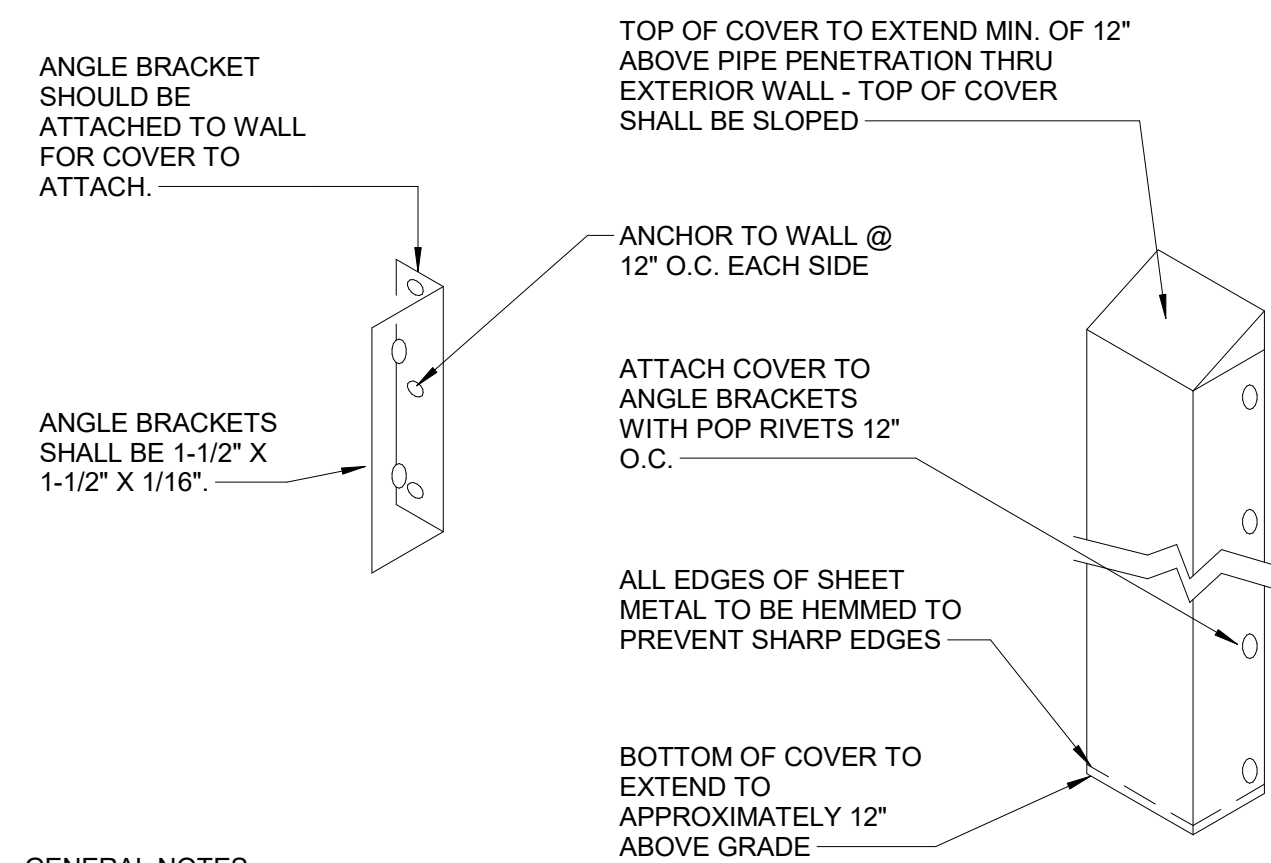
2 SIDEWALL GRILLE DETAIL  
SCALE: NONE



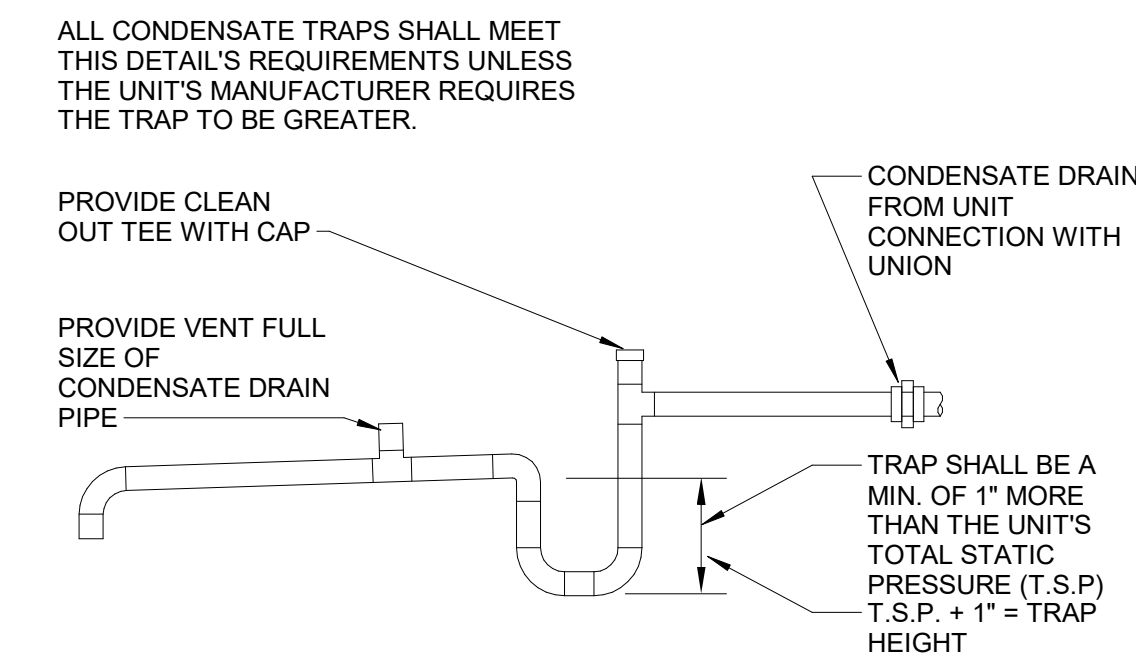
3 TYPICAL DIFFUSER RUNOUT W/ INSULATION DETAIL  
SCALE: NONE



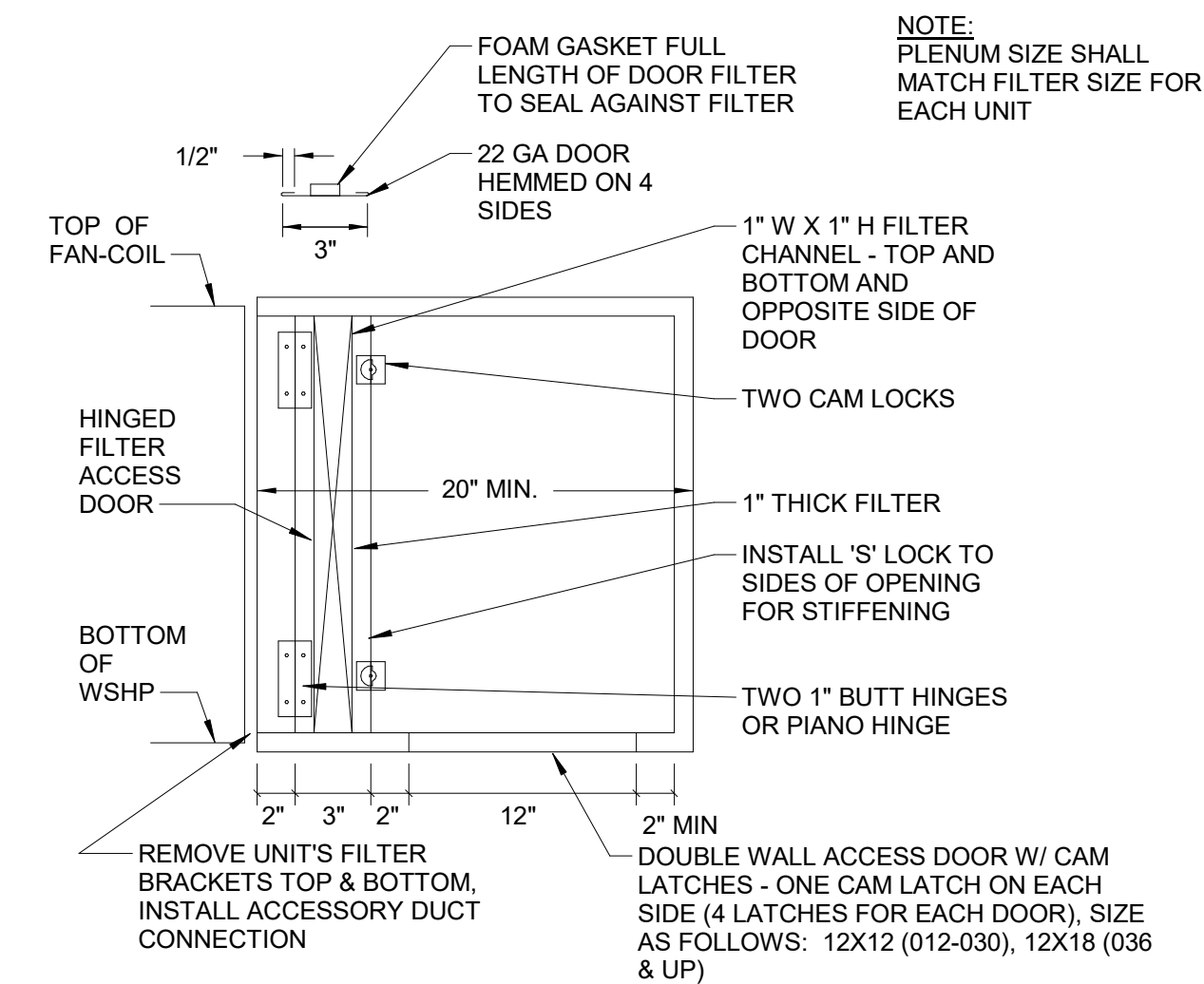
4 SIDEWALL GRILLE VANE ADJUSTMENT DETAIL  
SCALE: NONE



5 REFRIGERANT PIPING COVER DETAIL  
SCALE: NONE

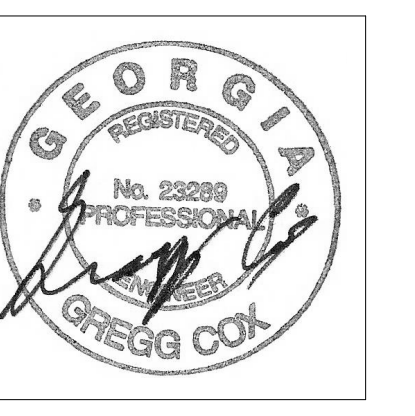


6 CONDENSATE TRAP DETAIL  
SCALE: NONE



7 FAN-COIL FILTER BOX  
SCALE: NONE

- GENERAL NOTES:**
- ROUTE REFRIGERANT PIPING AND CONTROL CONDUIT UP EXTERIOR WALL WITH 18 GAUGE ALUMINUM "PAINT GRIP" COVER. COVER SHALL BE PRIMED AND PAINTED PER ARCHITECTURAL REQUIREMENTS.
  - INSIDE OF COVER TO BE SIZED A MINIMUM OF A 1/2" LARGER THAN PIPES AND INSULATION.



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Revisions:

No.	Description

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New Maintenance Building**  
1792 County Services Parkway  
Marietta, GA 30008

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Sheet Title:  
**HVAC DETAILS**

Drawn By: co

Scale: AS NOTED

Date: 01/13/2023

Job No.: 2209

Sheet No.:  
**M2.1**

**MBA CONSULTING ENGINEERS**  
MBA# 2247

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DANTON, GA 30114  
PHONE: (770) 733-0773  
WWW.MATHESONBALL.COM

**PERMIT PACKAGE**

COMcheck Software Version 4.1.5.3  
**Mechanical Compliance Certificate**

**Project Information**

Energy Code: 2015 IECC  
 Project Title: Cobb County Parks Maintenance Building  
 Location: Marietta, Georgia  
 Climate Zone: 3a  
 Project Type: New Construction

Construction Site: 1792 County Services Parkway, Marietta, GA 30008  
 Owner/Agent: Cobb County Board of Commissioners, 100 Cherokee Street, Marietta, GA 30090, 771.526-3300  
 Designer/Contractor: Matheson-Ball & Associates, Inc., 225 Reformation Pkwy, Suite 200, Canton, GA 30114, 770-751-0773

**Additional Efficiency Package(s)**

Credits: 1.0 Required, 1.0 Proposed, Reduced Lighting Power: 1.0 credit

**Mechanical Systems List**

**Quantity System Type & Description**

- FC-1 HP-1 (Single Zone):  
 Split System Heat Pump  
 Heating Mode: Capacity = 28 kBtu/h, Proposed Efficiency = 8.20 HSPF, Required Efficiency = 8.20 HSPF  
 Cooling Mode: Capacity = 47 kBtu/h, Proposed Efficiency = 14.60 SEER, Required Efficiency: 14.00 SEER  
 Fan System: FAN COIL 1 - Compliance (Motor nameplate HP method) : Passes  
 Fans:  
 FAN 1 Supply, Constant Volume, 1600 CFM, 0.3 motor nameplate hp, 0.8 fan efficiency grade
- UH 1-6 (Single Zone):  
 Heating: 1 each - Unit Heater, Gas, Capacity = 51 kBtu/h, Proposed Efficiency = 80.00% Ec, Required Efficiency: 80.00 % Ec  
 Fan System: UH FAN - Compliance (Motor nameplate HP method) : Passes  
 Fans:  
 FAN 2 Supply, Constant Volume, 910 CFM, 2.0 motor nameplate hp, 0.8 fan efficiency grade
- Water Heater 1:  
 Electric Storage Water Heater, Capacity: 30 gallons w/ Circulation Pump  
 Proposed Efficiency: 0.93 SL, %h (f > 12 kW), Required Efficiency: 1.20 SL, %h (f > 12 kW)

**Mechanical Compliance Statement**

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Gregg Cox, Principal  
 Name - Title: Gregg Cox, Principal Signature: [Signature] Date: 09/27/23

Project Title: Cobb County Parks Maintenance Building Report date: 09/27/23  
 Data filename: C:\Users\Ciaro\Steen\Matheson-Ball & Associates, Inc\Michael Kicher - MBA Server\Projects\FSP2247 - Cobb Parks Maintenance Building\Design\HVAC\Comcheck\Cobb County Maintenance Building Comcheck.cck Page 1 of 10

COMcheck Software Version 4.1.5.3  
**Inspection Checklist**

Energy Code: 2015 IECC

Requirements: 0.0% were addressed directly in the COMcheck software  
 Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR2] <sup>1</sup>	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C103.2 [PR3] <sup>1</sup>	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufacturer's sizing guide.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C405 [PR9] <sup>1</sup>	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

**Additional Comments/Assumptions:**

Project Title: Cobb County Parks Maintenance Building Report date: 09/27/23  
 Data filename: C:\Users\Ciaro\Steen\Matheson-Ball & Associates, Inc\Michael Kicher - MBA Server\Projects\FSP2247 - Cobb Parks Maintenance Building\Design\HVAC\Comcheck\Cobb County Maintenance Building Comcheck.cck Page 2 of 10

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.2.4.5, C403.2.4.6 [FO9] <sup>1</sup>	Snow/ice melting system sensors for future connection to controls. Freeze protection systems have automatic controls installed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

**Additional Comments/Assumptions:**

Project Title: Cobb County Parks Maintenance Building Report date: 09/27/23  
 Data filename: C:\Users\Ciaro\Steen\Matheson-Ball & Associates, Inc\Michael Kicher - MBA Server\Projects\FSP2247 - Cobb Parks Maintenance Building\Design\HVAC\Comcheck\Cobb County Maintenance Building Comcheck.cck Page 3 of 10

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6] <sup>1</sup>	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C404.5, C404.5.1, C404.5.2 [PL6] <sup>1</sup>	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C404.5, C404.5.1, C404.5.2 [PL6] <sup>1</sup>	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C404.6.1, C404.6.2 [PL3] <sup>1</sup>	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C404.6.3 [PL7] <sup>1</sup>	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C404.6.3 [PL7] <sup>1</sup>	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C404.6.3 [PL7] <sup>1</sup>	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C404.7 [PL8] <sup>1</sup>	Water distribution system that pumps water from a heated-water supply pipe back to the heated-water source through a cold-water supply pipe is a demand recirculation water system. Pumps within this system have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C404.7 [PL8] <sup>1</sup>	Water distribution system that pumps water from a heated-water supply pipe back to the heated-water source through a cold-water supply pipe is a demand recirculation water system. Pumps within this system have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Project Title: Cobb County Parks Maintenance Building Report date: 09/27/23  
 Data filename: C:\Users\Ciaro\Steen\Matheson-Ball & Associates, Inc\Michael Kicher - MBA Server\Projects\FSP2247 - Cobb Parks Maintenance Building\Design\HVAC\Comcheck\Cobb County Maintenance Building Comcheck.cck Page 4 of 10

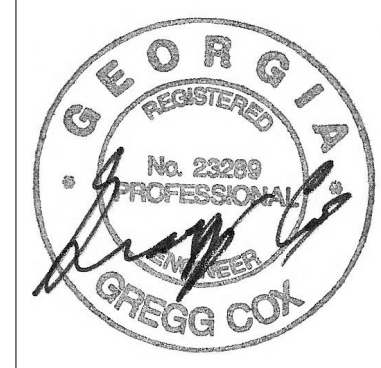
Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.7 [PL8] <sup>1</sup>	Water distribution system that pumps water from a heated-water supply pipe back to the heated-water source through a cold-water supply pipe is a demand recirculation water system. Pumps within this system have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

**Additional Comments/Assumptions:**

Project Title: Cobb County Parks Maintenance Building Report date: 09/27/23  
 Data filename: C:\Users\Ciaro\Steen\Matheson-Ball & Associates, Inc\Michael Kicher - MBA Server\Projects\FSP2247 - Cobb Parks Maintenance Building\Design\HVAC\Comcheck\Cobb County Maintenance Building Comcheck.cck Page 5 of 10

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41] <sup>1</sup>	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-5.5.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.13 [ME71] <sup>1</sup>	Unenclosed spaces that are heated use only radiant heat.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.3 [ME55] <sup>1</sup>	HVAC equipment efficiency verified.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.
C403.2.6.1 [ME59] <sup>1</sup>	Demand control ventilation provided for spaces >500 ft2 and >25 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >= 3.000 cfm.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.6.2 [ME115] <sup>1</sup>	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.7 [ME57] <sup>1</sup>	Exhaust air energy recovery on systems meeting Table C403.2.7(1) and C403.2.7(2).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.8 [ME116] <sup>1</sup>	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.9 [ME60] <sup>1</sup>	HVAC ducts and plenums insulated. Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation Inspection.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.9 [ME10] <sup>1</sup>	Ducts and plenums sealed based on static pressure and location.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.9.1.3 [ME11] <sup>1</sup>	Ductwork operating >3 in. water column requires air leakage testing.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.9.1.3 [ME11] <sup>1</sup>	Ductwork operating >3 in. water column requires air leakage testing.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Project Title: Cobb County Parks Maintenance Building Report date: 09/27/23  
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Revisions:


**Cobb County Parks  
 New Maintenance Building**  
 1792 County Services Parkway  
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Sheet Title:  
**COMCHECK**  
 Drawn By:  
 Scale: AS NOTED  
 Date: 01/13/2023  
 Job No.: 2209  
 Sheet No.:

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**M3.0**

Section # & Req.ID	Mechanical Rough-in Inspection	Complies?	Comments/Assumptions
C403.4.2.3.2.1 [ME121]	Closed-circuit cooling tower within heat pump loop have either automatic bypass valve or lower leakage positive closure dampers. Open-circuit tower within heat pump loop have automatic valve to bypass all heat pump water flow around the tower. Open- or closed-circuit cooling towers used in conjunction with a separate heat exchanger have heat loss by shutting down the circulation pump on the cooling tower loop.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.4.4.6 [ME110]	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.
C403.4.4.6 [ME110]	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Mechanical Systems list for values.
C408.2.2.1 [ME3]	Air outlets and zone terminal devices have means for air balancing.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.5.1, C403.5.2 [ME123]	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.5.1 and refrigeration compressor systems that comply with C403.5.2.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Cobb County Parks Maintenance Building Report date: 09/27/23  
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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.3 [F18]	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.2 [F127]	HVAC systems and equipment capacity does not exceed calculated loads.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.4.1 [F147]	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.4.1 [F147]	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.4.1.2 [F138]	Thermostatic controls have a 5 °F deadband.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.4.1.3 [F120]	Temperature controls have setpoint overlap restrictions.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.4.2 [F139]	Each zone equipped with setback controls using automatic time clock or programmable control system.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.4.2.1, C403.2.4.2.2 [F140]	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.4.2.3 [F141]	Systems include optimum start controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C403.2.4.2.3 [F141]	Systems include optimum start controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C404.3 [F111]	Heat traps installed on supply and discharge piping of non-circulating systems.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C404.4 [F125]	All piping insulated in accordance with section details and Table C403.2.10.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

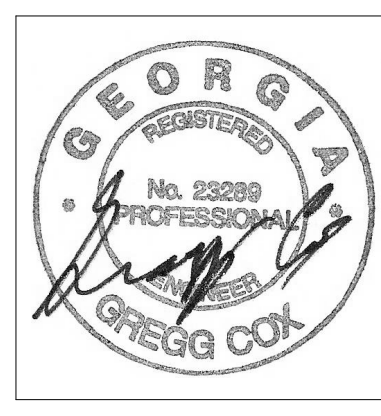
Project Title: Cobb County Parks Maintenance Building Report date: 09/27/23  
 Data filename: C:\Users\Ciaro\Steen\Matheson-Ball & Associates, Inc\Michael Kicher - MBA Server\Projects\F5F12247 - Cobb Parks Maintenance Building\Design\HVAC\Comcheck\Cobb County Maintenance Building Comcheck.cck Page 8 of 10

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C404.6.1 [F12]	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank. System return pipe is a dedicated return pipe or a cold water supply pipe.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.1 [F128]	Commissioning plan developed by registered design professional or approved agency.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.3.1 [F151]	HVAC equipment has been tested to ensure proper operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.3.2 [F110]	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.4 [F129]	Preliminary commissioning report completed and certified by registered design professional or approved agency.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.5.1 [F17]	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.5.3 [F143]	An air and/or hydronic system balancing report is provided for HVAC systems.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
C408.2.5.4 [F150]	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Cobb County Parks Maintenance Building Report date: 09/27/23  
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Revisions:	

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 New Maintenance Building**  
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Sheet Title:  
**COMCHECK**

Drawn By:

Scale: AS NOTED

Date: 01/13/2023

Job No.: 2209

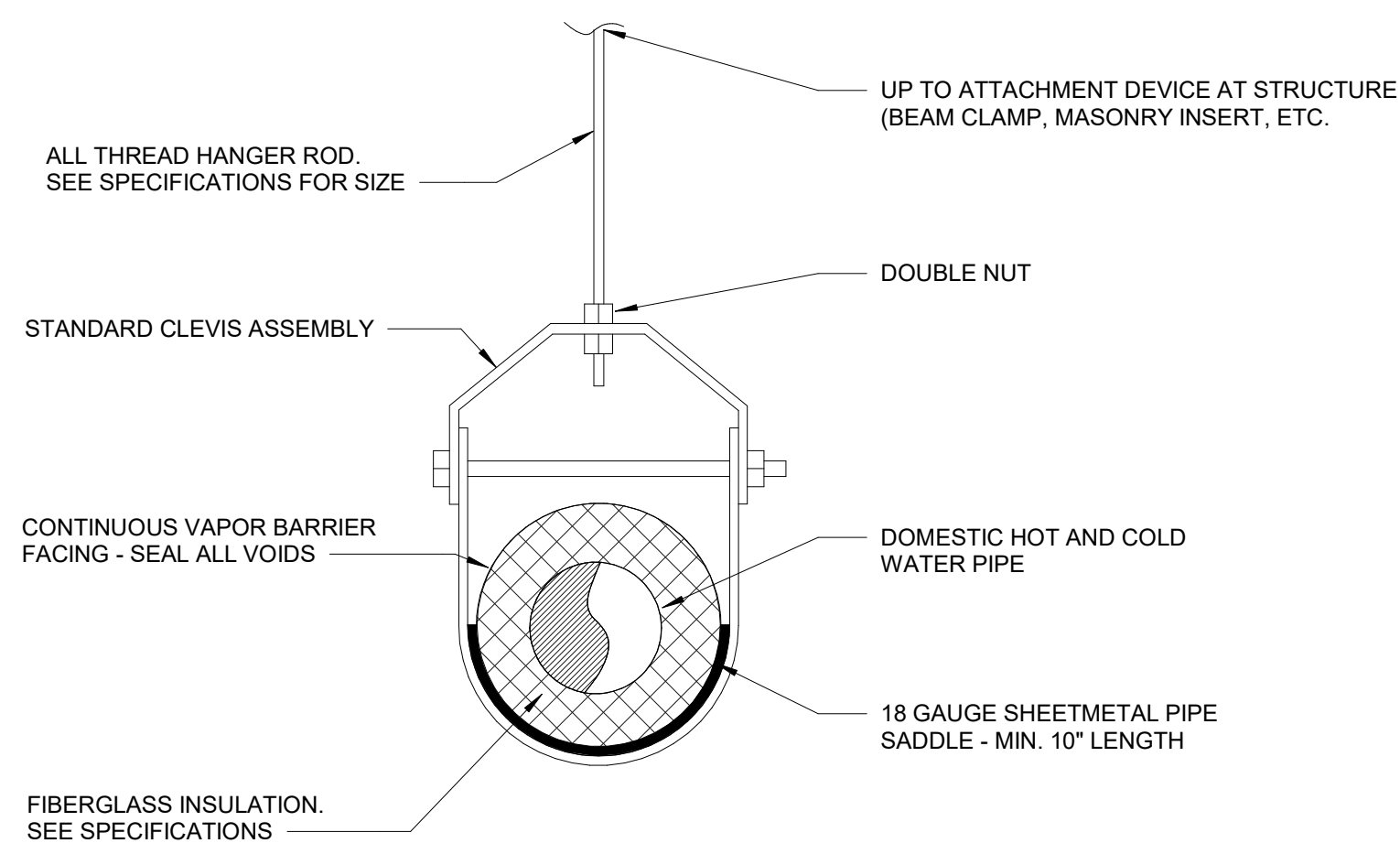
Sheet No.:  
**M3.1**

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1 CLEVIS HANGER INSULATED PIPING PROTECTION  
NO SCALE

PLUMBING FIXTURE SCHEDULE									
MARK	DESCRIPTION	MOUNTING HEIGHT	FLOW RATE	CW	HW	SW	NOTES		
P101H	WATER CLOSET, FLOOR MNTD, MANUAL FLUSH VALVE, HANDICAPPED	SEE SPECS	1.28 GPF	1"	-	4"			
P301H	LAVATORY, WALL HUNG, ADA, MANUAL FAUCET	34" TOP OF RIM TO FLOOR	0.5 GPM	1/2"	1/2"	1-1/2"			
P402BH	ELECTRIC WATER COOLER, WITH BOTTLE FILL STATION, SURFACE MNT, STANDARD AND ADA	36" SPOUT OUTLET, ADA	NOT RATED	1/2"	-	1-1/4"			
P608	SINK, FREE STANDING, STAINLESS STEEL, DEEP COMPARTMENT	FLOOR MOUNTED	2.0 GPM	1/2"	1/2"	1-1/2"			
P610H	SINK, BREAK ROOM, STAINLESS STEEL, DOUBLE COMPARTMENT, DROP IN	INSTALL ON NEW CASEWORK	2.0 GPM	1/2"	1/2"	1-1/2"			
P801	EMERGENCY EYEWASH	BOTTOM OF BOX 42" AFF	0.5 GPM	1/2"	1/2"	1-1/4"			
P902	ICEMAKER BOX	40" AFF	NOT RATED	1/2"	1/2"	2"			

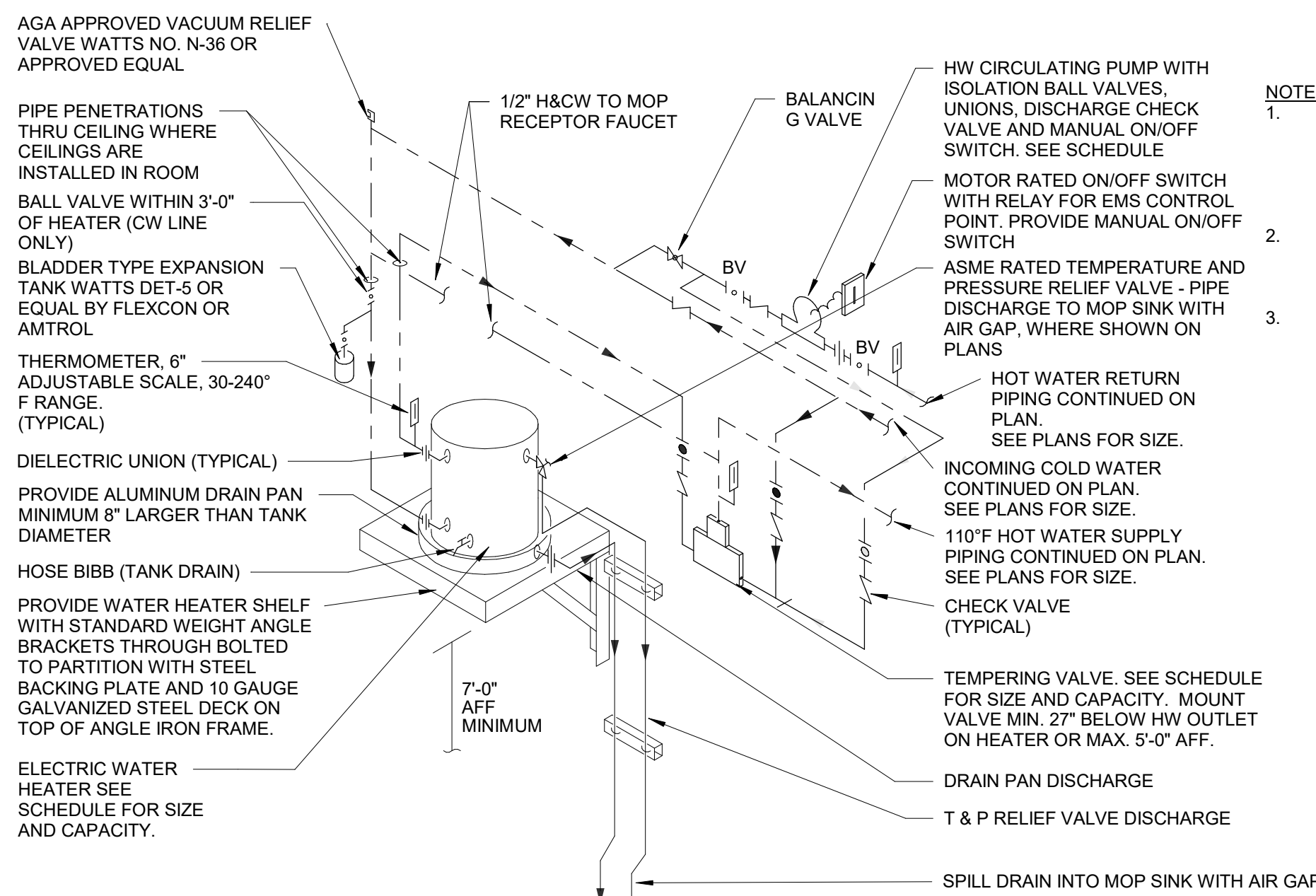
ELECTRIC WATER HEATER SCHEDULE						
MARK	LOCATION	STORAGE CAPACITY	KW INPUT	RECOVERY RATE @ 90°F RISE	BASIS OF DESIGN A.O. SMITH	DETAIL
DWH-1	DRAWING P1.0 STORAGE 107	30 GALLON	4.0	18 GPH	DEL-30	1/P2.0

TEMPERING VALVE SCHEDULE				
MARK	ASSOCIATED WITH WATER HEATER	PRESSURE DROP (PSI)	FLOW (GPM)	BASIS OF DESIGN (LEONARD)*
TM-1	DWH-1	19	1.5	XL-82-LF-BDT

\*- EQUAL PRODUCTS - POWERS, LAWLER, BRADLEY

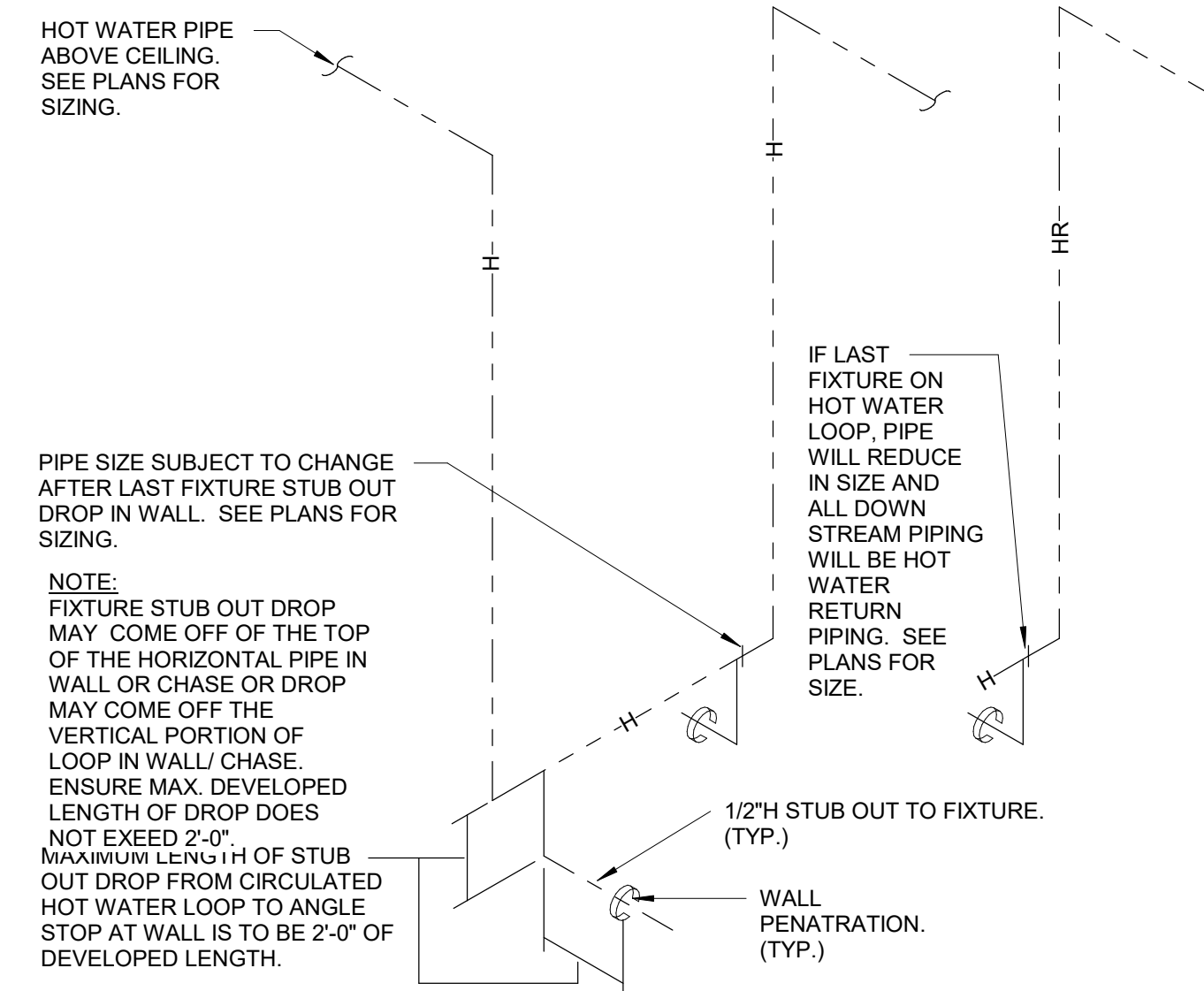
DOMESTIC HW RECIRCULATING PUMP SCHEDULE (CP)						
MARK	ASSOCIATED WATER HEATER	GPM	TDH (FT)	HP	BASIS OF DESIGN (TACO)*	DETAIL
CP-1	DWH-1	.33	7	1/35	005	5/PS-01

EQUAL PRODUCTS - B&G, GRUNDFOS

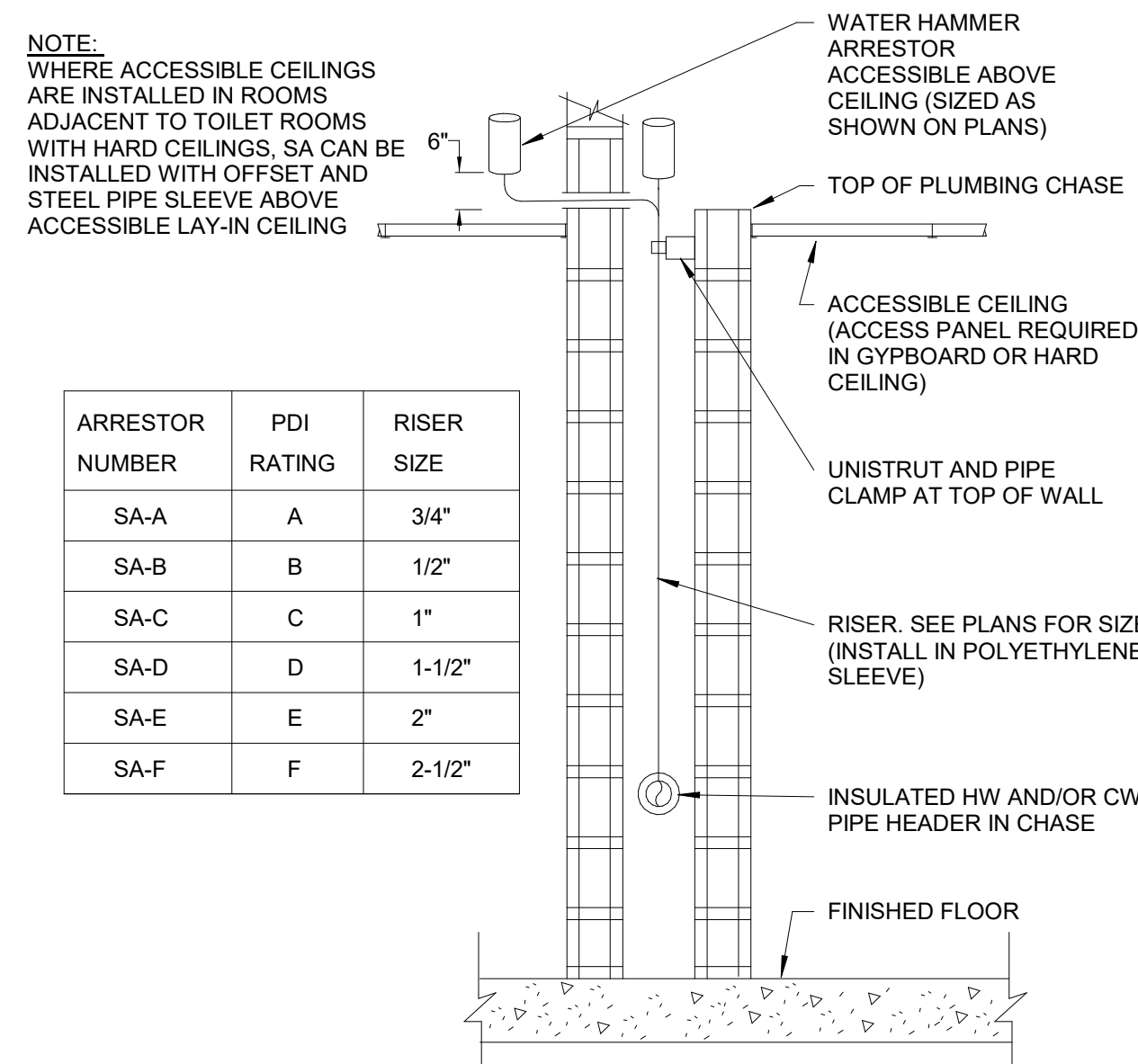


2 DETAIL- ELECTRIC WATER HEATER, TMV & PUMP - WALL MTD.  
NO SCALE

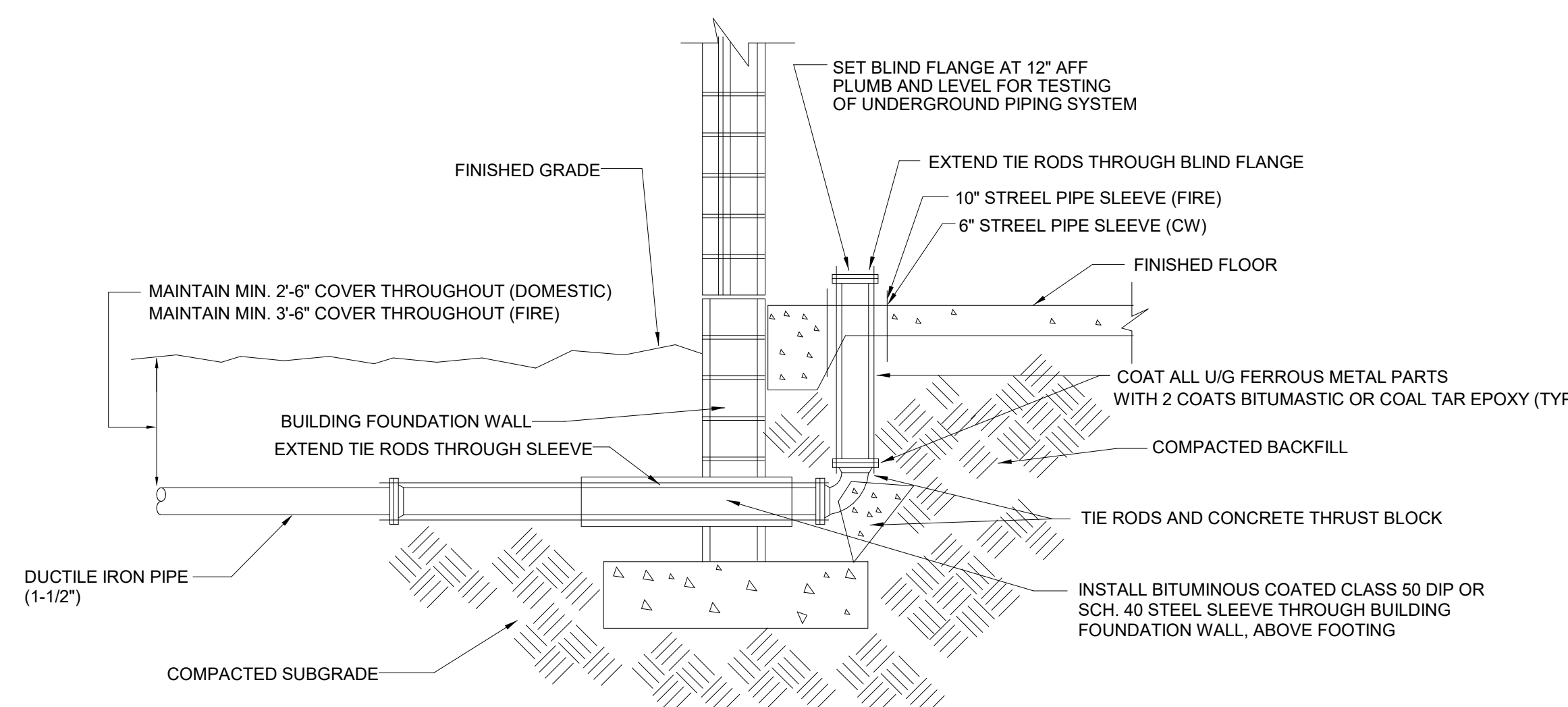
- NOTES:
- COORDINATE ELECTRICAL CHARACTERISTICS OF ACTUAL HEATER FURNISHED WITH ELECTRICAL CONTRACTOR AND AVAILABLE VOLTAGE ON SITE.
  - WATER HEATER STORAGE TEMPERATURE SHALL BE SET TO 140°F.
  - PIPING SHOWN IS DIAGRAMMATICAL ONLY AND DOES NOT INDICATE OR SUGGEST AN EXACT PIPE ROUTING OR EQUIPMENT AND APPARATUS LOCATION, ORIENTATION OR PLACEMENT. CONTRACTOR IS TO COORDINATE WITH ALL OTHER TRADES AND LOCATE MIXING VALVES, CIRC. PUMPS AND OTHER VALVING AND ACCESSORIES AS CLOSE TO LOCATION SHOWN ON PLANS AS POSSIBLE.



3 HOT WATER LOOP TO LAVATORY  
SCALE: NONE

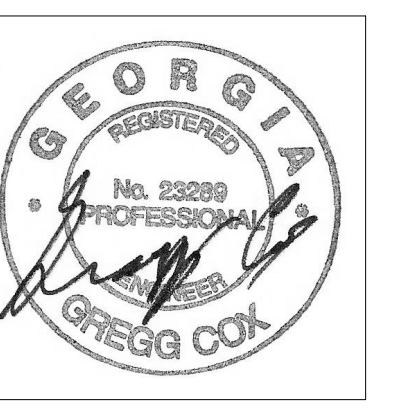


4 WATER HAMMER ARRESTOR  
SCALE: NONE



5 DETAIL- WATER SERVICE ENTRANCE  
NO SCALE

PLUMBING LEGEND	
SYMBOL	DESCRIPTION
---	SANITARY PIPING (S)
----	SANITARY VENT PIPING (V)
----	DOMESTIC HOT WATER PIPING (H)
----	DOMESTIC COLD WATER PIPING (C)
----	HOT WATER RECIRCULATING PIPING (HR)
----	LOW PRESSURE (LESS THAN 2.0 PSIG) NATURAL GAS PIPING (LPG)
----	MEDIUM PRESSURE (5.0 PSIG) NATURAL GAS PIPING (MPG)
----	KITCHEN WASTE (K)
----	STORM PIPING (ST)
----	STORM OVERFLOW PIPING (SO)
----	CONDENSATE DRAIN (CD)
----	TRAP PRIMER LINE (TP)
F	FIRE MAIN OR FEED MAIN
TP/CD	COMBINED TRAP PRIMER/CONDENSATE DRAIN
CI	CAST IRON
DIP	DUCTILE IRON PIPE (THICKNESS CLASS 50)
CMP	CORRUGATED METAL PIPE, FULLY COATED, PAVED INVERT
HD	HUB DRAIN
W.CO	WALL CLEANOUT
Y.CO	YARD CLEANOUT
F.CO	FLOOR CLEANOUT
AP	ACCESS PANEL
P-1	PLUMBING FIXTURE NUMBER
⊕	SEE PLUMBING NOTES
---	UNION
---	FLOW ARROW
---	CONNECT TO EXISTING PIPING
VTR	VENT THROUGH ROOF
+	BALL VALVE (FULL PORT)
A/C	ABOVE CEILING
B/F	BELOW FLOOR
#FD-1	FLOOR DRAIN (# INDICATES SIZE, NUMBER INDICATES TYPE - SEE SPECS)
WH	HOSE BIBB WITH VANDAL PROOF VACUUM BREAKER
RD	ROOF DRAIN-NUMBER INDICATES TYPE - SEE SPECS
NPW	NON-POTABLE WATER
---	CHECK VALVE (CHKV)
BFP	US/CASSE APPROVED BACKFLOW PREVENTION DEVICE ASSEMBLY
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
DCV	DOUBLE CHECK VALVE BACKFLOW PREVENTER
DDC	DOUBLE DETECTOR CHECK VALVE BACKFLOW PREVENTER
VB	3 PIECE ADJUSTABLE VALVE BOX
TP-2	TRAP PRIMER - NUMBER INDICATES TYPE - SEE SPECS
TPDU-2	TRAP PRIMER DISTRIBUTION UNIT - NUMBER INDICATES TYPE - SEE SPECS
NFWH	NON-FREEZE WALL HYDRANT
WH	WALL HYDRANT
---	AGA RATED LUBRICATED PLUG COCK
BV	BALL VALVE (FULL PORT)
---	GATE VALVE (GV)
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
⊗ GV & VB	GATE VALVE WITH VALVE BOX AT FIN. GRADE
IE	INVERT ELEVATION
SA "B"	SHOCK ARRESTOR - LETTER INDICATES SIZE (PER PDI STANDARDS)
PRV	PRESSURE REDUCING VALVE ASSEMBLY
OS & Y	OS & Y GATE VALVE IN VERTICAL
CHKV	CHECK VALVE
INV.	INVERT
OFD	OVERFLOW ROOF DRAIN
RH	ROOF HYDRANT
CD	CONDENSATE DRAIN



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Revisions:

NO.	DESCRIPTION

**Cobb County Parks  
New Maintenance Building**  
1792 County Services Parkway  
Marietta, GA 30008

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Sheet Title:  
**PLUMBING SCHEDULES AND DETAILS**

Drawn By: BJ

Scale: AS NOTED

Date: 01/13/2023

Job No.: 2209

Sheet No.:

**P2.0**

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## COMPLETION DOCUMENTS

### DRAWINGS

WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE BY THE CONTRACTOR, 3 COPIES OF RECORD AS-BUILT DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER, INCLUDING THE FOLLOWING:

- A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM.
- FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.

### MANUALS

WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, 3 COPIES OF OPERATING AND MAINTENANCE MANUALS SHALL BE PROVIDED TO THE BUILDING OWNER BY THE CONTRACTOR. THE MANUALS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:

- SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
- OPERATIONS MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
- NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
- A COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE.

## ELECTRICAL DEMOLITION NOTES

- CONTRACTOR SHALL REMOVE AND/OR RELOCATE AS DIRECTED ALL ELECTRICAL APPURTENANCES ASSOCIATED WITH NEW CONSTRUCTION. DIVERT, EXTEND, RE-ROUTE, REPLACE, RECONNECT, OR OTHERWISE MAKE GOOD AND LEAVE IN SAFE WORKING ORDER ALL PORTIONS OF THE EXISTING ELECTRICAL INSTALLATION REQUIRED TO REMAIN IN USE DURING AND/OR AFTER THE COMPLETION OF WORK.
- THE CONTRACTOR SHALL COORDINATE WITH OWNER THE REMOVAL AND DISPOSAL OF ALL EXISTING ELECTRICAL MATERIAL WHICH IS NOT TO BE REUSED ON THE PROJECT. CONTRACTOR SHALL REMOVE AND STORE ANY ELECTRICAL MATERIAL IF SO DIRECTED BY OWNER. PATCH AND PAINT WALLS AND CEILING AS REQUIRED BY REMOVALS OF APPURTENANCES. COORDINATE WITH ARCHITECT.
- WORK IS TO BE CARRIED OUT WITHOUT UNNECESSARY INTERFERENCE WITH OWNER'S EXISTING FACILITIES AND OPERATIONS. POWER INTERRUPTIONS SHALL BE SCHEDULED WITH OWNER AND TAKEN ONLY DURING THOSE PERIODS WHICH HE HAS APPROVED IN WRITING. COORDINATE EXACT PHASING OF CONSTRUCTION WITH ARCHITECT. MINIMUM 10 DAYS ADVANCE NOTICE.
- DEMOLITION OF EXISTING ELECTRICAL MATERIAL SHALL BE INCLUDED IN CONTRACTOR'S BID. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR DEMOLITION.
- EXISTING WALLS THAT ARE TO BE DEMOLISHED, REMOVE CIRCUITS BACK TO NEAREST DEVICE ON SAME CIRCUIT THAT SHALL REMAIN INTACT OR COMPLETELY BACK TO PANELBOARD. RECONNECT NEW WIRING TO EXISTING DEVICES ON SAME CIRCUIT "DOWNSTREAM" IN ORDER THAT THEY OPERATE IN SAME MANNER AS BEFORE RENOVATION.

## ELECTRICAL GENERAL NOTES

- REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL LIGHT FIXTURES.
- REFER TO RISER DIAGRAM FOR FEEDER SIZES FOR PANELBOARDS.
- OVERCURRENT PROTECTION, WIRE SIZE AND NUMBER OF CONNECTION POINTS FOR MECHANICAL HVAC AND PLUMBING EQUIPMENT IS FOR ITEMS AS SPECIFIED. ELECTRICAL CONTRACTOR SHALL VERIFY THE EXACT ELECTRICAL REQUIREMENTS OF ALL MECHANICAL AND PLUMBING EQUIPMENT WITH THE MECHANICAL AND PLUMBING CONTRACTORS PRIOR TO PURCHASING EQUIPMENT. VERIFY THE ELECTRICAL REQUIREMENTS WITH THE EQUIPMENT FURNISHED (NAME PLATE INFORMATION) AND MAKE CORRECTIONS AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER. COORDINATE EQUIPMENT LOCATIONS WITH MECHANICAL/PLUMBING DRAWINGS AND CONTRACTORS PRIOR TO ROUGH-IN.
- RUN 3/4" E.C. WITH PULLWIRE FROM TELECOMMUNICATIONS OUTLETS AND STUB UP 6" INTO ACCESSIBLE CEILING SPACE. PROVIDE PLASTIC GROMMET.
- REFER TO HVAC/ELECTRICAL SCHEDULE FOR FEEDER SIZES FOR HVAC EQUIPMENT. UNLESS OTHERWISE NOTED ON PLANS OR SCHEDULE.
- PROVIDE FINISHED COVER PLATES FOR ALL JUNCTION BOXES. ALL JUNCTION BOXES AND COVERPLATES SHALL BE PAINTED AND LABELED. REFER TO DETAIL 1/E1.1.
- ALL RECEPTACLES WITHIN (6) FEET OF PLUMBING FIXTURES SHALL BE PROVIDED WITH 5 MILLIAMP GROUND FAULT INTERRUPTERS.
- EDGE OF LIGHT SWITCH WALL PLATE SHALL BE NOT MORE THAN 4" AWAY FROM METAL/WOOD DOOR FRAME. TYPICAL FOR SINGLE OR MULTIPLE WALL SWITCHES.
- CONFIRM MOUNTING HEIGHTS AND COORDINATE LOCATION OF ALL OUTLETS, SWITCHES AND OTHER DEVICES WITH ARCHITECTURAL ELEVATIONS, INTERIOR DESIGN ELEVATIONS, AND HILTON GARDEN INN PROJECT MANAGER PRIOR TO ROUGH-IN.
- PROVIDE SEAL FOR PENETRATION OF FIRE RATED WALLS BY CONDUIT. REFER TO DETAIL 2/E1.1.
- ALL WIRING SHALL BE IN METAL CONDUIT. MC CABLE MAY BE USED CONCEALED WITHIN WALLS. ALL OTHER CONDUIT TO BE INSTALLED IN EMT CONDUIT.
- COORDINATE MOUNTING HEIGHTS OF ALL EXTERIOR LIGHTING WALL PACKS WITH OWNER.
- CONTRACTOR SHALL COORDINATE INSTALLATION OF NEW LIGHTING FIXTURES, RECEPTACLES, PANELBOARDS, ETC. WITH STRUCTURE, PIPING, ETC. AND MAKE ADJUSTMENTS AS REQUIRED.
- PROVIDE ARC FLASH LABELING FOR ALL ELECTRICAL EQUIPMENT PER N.E.C. AND N.F.P.A. 70E.
- TERMINATIONS (LUGS, TERMINAL BLOCKS, ETC.) IN CIRCUIT BREAKERS, DISCONNECT SWITCHES, LIGHTING CONTACTORS, RELAYS, PANEL BOARDS, TIME SWITCHES, ETC. SHALL BE RATED FOR 75°C IN TEMPERATURE. IF TERMINATIONS IN EQUIPMENT SUCH AS EXHAUST FANS, WATER HEATERS, AIR CONDITIONING UNITS, ETC. ARE RATED FOR 60°C ONLY, THEN CONDUCTORS MUST BE DE-RATED AND USED IN COMPLIANCE WITH TABLE 310-16 OF CURRENT N.E.C. AND SIZED FOR THE 60°C COLUMN.
- BRANCH CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN NO.12 AND WHERE BRANCH CIRCUIT CONDUCTOR RUNS FROM SOURCE (PANEL) TO THE LAST DEVICE ON THE CIRCUIT EXCEEDS 100 FT. IN LENGTH, THE CONDUCTORS SHALL BE NO. 10 MINIMUM AND FOR THE ENTIRE LENGTH OF THE CIRCUIT. FOR RUNS OVER 200 FT. IN LENGTH THE CONDUCTOR SHALL BE NO. 8 MINIMUM AND FOR THE ENTIRE LENGTH OF THE CIRCUIT. THE ABOVE APPLIES TO 120 VOLT CIRCUITS ONLY.
- CONTRACTOR SHALL ASSURE THAT ALL WORK CLEARANCES PER THE N.E.C ARE MET OR EXCEEDED WITH EQUIPMENT FURNISHED PRIOR TO ROUGH-IN. NOTIFY ARCHITECT OF ANY DISCREPANCIES WITH THE ELECTRICAL PLANS.
- COORDINATE ALL LIGHTING CONTROL CHANGES WITH OWNER AND MAKE NECESSARY ADJUSTMENTS BASED ON FIELD CONDITIONS.
- BRANCH CIRCUITING WIRES SHALL NOT PASS THROUGH ELECTRICAL DEVICES (PANELS, DISCONNECT SWITCHES, CONTACTORS, ETC.) OTHER THAN THOSE DESIGNED FOR THE USE AS A JUNCTION BOX.
- PROVIDE DEDICATED NEUTRALS FOR ALL CIRCUITS, DO NOT SHARE NEUTRALS.
- PROVIDE SEISMIC BRACING PER THE INTERNATIONAL BUILDING CODE (I.B.C.) 2018, CHAPTER 13.
- ALL EXIT SIGNS AND EMERGENCY BATTERY PACKS SHALL BE CONNECTED AHEAD OF ANY SWITCHING AND/OR CONTROLS SO TO REMAIN "HOT" AT ALL TIMES.

## ELECTRICAL LEGEND

	HOMERUN TO PANELBOARD, LETTER INDICATES PANEL DESIGNATION, NUMBER INDICATES CIRCUIT NUMBER, SLASH MARK INDICATES NUMBER OF CONDUCTORS IN SIZE CONDUIT AS REQUIRED BY THE N.E.C. NO SLASH MARK INDICATES 2#12, 1#12G. (P) INDICATES GREEN GROUND CONDUCTOR. PROVIDE DEDICATED NEUTRAL FOR EACH CIRCUIT.
	CONDUIT CONCEALED IN CEILING OR WALL.
	CONDUIT CONCEALED IN SLAB OR BELOW GRADE.
	PANELBOARD, 120/208 VOLT, 3 PHASE, 4 WIRE. EXISTING OR NEW AS INDICATED.
	HEAVY DUTY DISCONNECT SWITCH, "F" INDICATES FUSED, "WP" INDICATES NEMA 3R ENCLOSURE.
	MOTOR, HORSEPOWER INDICATED.
	TOGGLE SWITCH, "2" INDICATES 2 POLE, "3" INDICATES 3 WAY, "P" INDICATES PILOT LIGHT, "M" INDICATES MANUAL MOTOR CONTROLLER, "K" INDICATES KEY SWITCH.
	1-POLE WALL SWITCH/OCCUPANCY SENSOR, DUAL TECHNOLOGY, HUBBELL #LHMTD-1-FINISH.
	0-10V DIMMING WALL SWITCH/OCCUPANCY SENSOR, PASSIVE INFRARED, HUBBELL #LHD-IRS-3-FINISH.
	CEILING MOUNTED, DUAL TECHNOLOGY OCCUPANCY SENSOR, HUBBELL #OMNI-DT-500. PROVIDE POWER PACKS AS REQUIRED. APPROVED EQUALS BY SENSOR SWITCH AND WATTSTOPPER.
	HIGH CEILING MOUNTED, PASSIVE INFRARED OCCUPANCY SENSOR, HUBBELL #WSP-SM-24V. PROVIDE POWER PACKS AS REQUIRED. APPROVED EQUALS BY SENSOR SWITCH AND WATTSTOPPER.
	ACRYLIC TROFFER, TYPE INDICATED.
	ACRYLIC TROFFER, SWITCHED EMERGENCY, TYPE INDICATED.
	ACRYLIC TROFFER, UNSWITCHED EMERGENCY, TYPE INDICATED.
	ENCLOSED STRIP, TYPE INDICATED.
	ENCLOSED STRIP, SWITCHED EMERGENCY, TYPE INDICATED.
	L.E.D. EXIT SIGN, WALL MOUNTED, TYPE INDICATED.
	DUPLEX RECEPTACLE, MOUNT AT 18" AFF UNLESS NOTED OTHERWISE.
	DUPLEX RECEPTACLE, GROUND FAULT INTERRUPTER. MOUNT AT 18" AFF UNLESS NOTED OTHERWISE. "WP" INDICATES NEMA 3R ENCLOSURE.
	DOUBLE DUPLEX RECEPTACLE, MOUNT AT 18" AFF UNLESS NOTED OTHERWISE.
	DATA/TELECOMMUNICATIONS OUTLET. PROVIDE 4"x4"x3" DEEP RECESSED JUNCTION BOX WITH SINGLE GANG PLASTER RING. STUB UP 1" E.C. WITH PULLWIRE INTO ACCESSIBLE CEILING SPACE.
	JUNCTION BOX.

## ABBREVIATION LEGEND

ABBREVIATION	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
CB	CIRCUIT BREAKER
EX	EXISTING TO REMAIN
EXR	EXISTING TO BE RELOCATED
GFI	GROUND FAULT CIRCUIT INTERRUPT TYPE RECEPTACLE
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
MRS	MOTOR RATED SWITCH
NF	NON FUSED
NTS	NOT TO SCALE
SPD	SURGE PROTECTION DEVICE
WP	WEATHER PROOF (NEMA "3R") DEVICE

## LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LUMENS	WATTAGE	MOUNTING	NOTES
A1	1'x4' LED FLAT PANEL	LITHONIA COLUMBIA, METALUX	CPX-1X4-5000LM-80-40-A12-MVOLT	5,000	46.3	RECESSED	-
A1E	1'x4' LED FLAT PANEL (EM)	LITHONIA COLUMBIA, METALUX	CPX-1X4-5000LM-80-40-A12-MVOLT-E10WLCP	5,000	46.3	RECESSED	1
A2	2'x2' LED FLAT PANEL	LITHONIA COLUMBIA, METALUX	CPX-2X2-5000LM-80-40-A12-MVOLT	5,000	31.7	RECESSED	-
A2E	2'x2' LED FLAT PANEL (EM)	LITHONIA COLUMBIA, METALUX	CPX-2X2-5000LM-80-40-A12-MVOLT-E10WLCP	5,000	31.7	RECESSED	1
OA	LED WALL PACK	LITHONIA HUBBELL, LUMARK	WPXO-LED-ALO-SW2-MVOLT-PE-DOBXD	1,650	13.0	WALL	2
S1	4'-0" LED ENCLOSED STRIP	LITHONIA COLUMBIA, METALUX	CLX-L48-9000LM-FDL-MVOLT-G21-40K-WG	9,000	64.0	SUSPENDED	3
S1E	4'-0" LED ENCLOSED STRIP (EM)	LITHONIA COLUMBIA, METALUX	CLX-L48-9000LM-FDL-MVOLT-G21-40K-WG-E10WLCP	9,000	64.0	SUSPENDED	1, 3
S2	4'-0" LED ENCLOSED STRIP	LITHONIA COLUMBIA, METALUX	CLX-L48-9000LM-FDL-MVOLT-G21-40K-WG	7,000	49.1	SUSPENDED	3
X1	4'-0" LED ENCLOSED STRIP (EM)	LITHONIA COLUMBIA, METALUX	LV-S-W-1-R-120/277-ELN-SD	-	-	WALL	4

### NOTES:

- PROVIDE OPTIONAL LED EMERGENCY DRIVER AS INDICATED.
- COORDINATE FINISH WITH ARCHITECT PRIOR TO ROUGH-IN.
- MOUNT FIXTURE AT 12'-0".
- REFER TO DRAWINGS FOR NUMBER OF FACES AND DIRECTIONAL ARROWS.

## RISER DIAGRAM NOTES

- POWER COMPANY PAD MOUNTED TRANSFORMER, 120/208 VOLT, 3 PHASE, 4 WIRE. COORDINATE EXACT LOCATION, DETAILS AND METERING WITH ARCHITECT AND POWER COMPANY PRIOR TO ROUGH-IN.
- SURGE PROTECTION DEVICE, SURGE SUPPRESSION INC #CDL3Y1, LIMIT TAP TO 3'-0" MAXIMUM.
- (2) SETS OF #350kcmil, 3°C.
- (2) SETS OF #350kcmil, 1#10, 3°C.
- PROVIDE SERVICE GROUND, REFER TO DETAIL 2/E-3.1.

### SERVICE

SERVICE	WATTS	NOTES	CKT NO.	PHASE	CKT NO.	NOTES	WATTS	SERVICE
RCPT - BREAK ROOM (COUNTER)	500	-	1	A	2	-	-	
RCPT - BREAK ROOM (COUNTER)	500	-	3	B	4	-	-	SURGE PROTECTION DEVICE
RCPT - BREAK ROOM	540	-	5	C	6	-	-	
RCPT - RESTROOM	360	-	7		8	1	600	RCPT - EDF
RCPT - MAINTENANCE 2	360	-	9		10	1	1,500	ELECTRIC HAND DRYER
RCPT - MAINTENANCE 2	360	-	11		12	1	1,500	ELECTRIC HAND DRYER
RCPT - MAINTENANCE 2	360	-	13		14	-	500	RCPT - TELEPHONE
RCPT - MAINTENANCE 1	360	-	15		16	-	1,176	OVERHEAD DOOR
RCPT - MAINTENANCE 1	360	-	17		18	-	1,176	OVERHEAD DOOR
RCPT - MAINTENANCE 1	360	-	19		20	-	1,176	OVERHEAD DOOR
SPARE	-	-	21		22	-	1,165	EF-1
SPARE	-	-	23		24	-	1,165	EF-2
SPARE	-	-	25		26	-	1,170	EF-3
SPARE	-	-	27		28	-	60	EF-6
SPACE	-	-	29		30	-	3,700	CU-1
SPACE	-	-	31		32	-	-	SPARE
SPACE	-	-	33		34	-	-	SPARE
SPACE	-	-	35		36	-	4,000	EMH-1
SPACE	-	-	37		38	-	-	SPARE
SPACE	-	-	39		40	-	500	RCPT - VENDING
SPACE	-	-	41		42	-	500	RCPT - VENDING
SPACE	-	-	43		44	-	500	RCPT - VENDING
LTG - EXTERIOR	91	-	45		46	-	5,760	FC-1
LTG - BREAK, RESTROOM, STORAGE	705	-	47		48	-	-	SPARE
LTG - MAINTENANCE 1	768	-	49		50	-	-	SPARE
LTG - MAINTENANCE 1	1,152	-	51		52	-	-	SPARE
LTG - MAINTENANCE 2	768	-	53		54	-	-	SPARE

### PANEL SCHEDULE "MP"

SERVICE: 120/208 VOLT, 3 PHASE, 4 WIRE  
 MAINS: 600 AMP WITH 600/3 M.C.B.  
 BRANCHES: 20/1 EXCEPT AS NOTED  
 MOUNTING: SURFACE

CONNECTED LOAD  
 33.69 KVA

### GENERAL NOTES:

- PROVIDE SEPARATE GROUND BUS
- PROVIDE SERVICE ENTRANCE LABEL
- PROVIDE 35K A.I.C. RATED BREAKERS
- PROVIDE FEED-THRU LUGS

### NOTES:

- PROVIDE GFCI CIRCUIT BREAKER

### SERVICE

SERVICE	WATTS	NOTES	CKT NO.	PHASE	CKT NO.	NOTES	WATTS	SERVICE
UH-1	15,000	-	1	A	2	-	15,000	UH-4
			3	B	4	-		
			5	C	6	-		
UH-2	15,000	-	7		8	-	15,000	UH-5
			9		10	-		
			11		12	-		
UH-3	15,000	-	13		14	-	15,000	UH-6
			15		16	-		
			17		18	-		
SPARE	-	-	19		20	-	-	SPARE
SPARE	-	-	21		22	-	-	SPARE
SPARE	-	-	23		24	-	-	SPARE
SPARE	-	-	25		26	-	-	SPARE
SPARE	-	-	27		28	-	-	SPARE
SPARE	-	-	29		30	-	-	SPARE
SPARE	-	-	31		32	-	-	SPARE
SPARE	-	-	33		34	-	-	SPARE
SPARE	-	-	35		36	-	-	SPARE
SPARE	-	-	37		38	-	-	SPARE
SPARE	-	-	39		40	-	-	SPARE
SPARE	-	-	41		42	-	-	SPARE

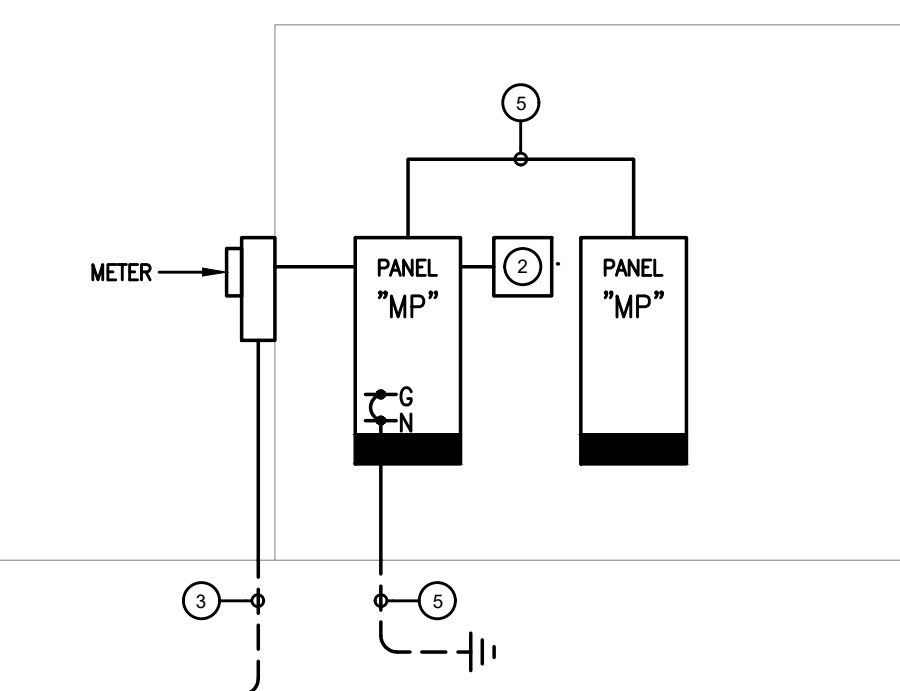
### PANEL SCHEDULE "MP2"

SERVICE: 120/208 VOLT, 3 PHASE, 4 WIRE  
 MAINS: 600 AMP M.L.O.  
 BRANCHES: 20/1 EXCEPT AS NOTED  
 MOUNTING: SURFACE

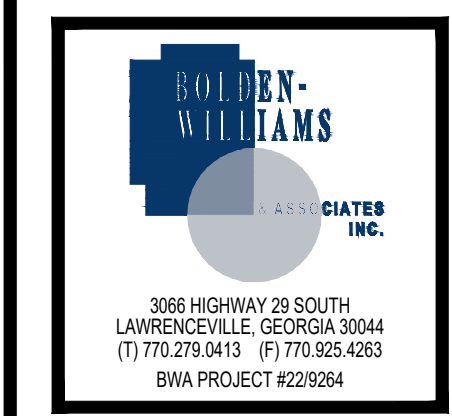
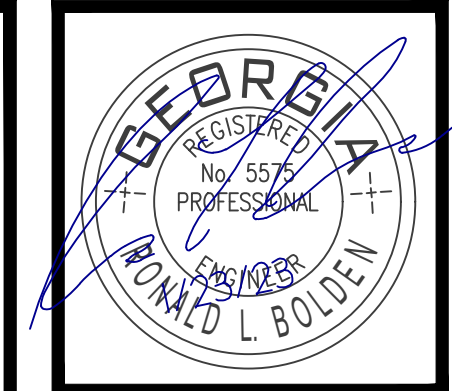
CONNECTED LOAD  
 90.00 KVA

### GENERAL NOTES:

- PROVIDE SEPARATE GROUND BUS
- PROVIDE 35K A.I.C. RATED BREAKERS



2 ELECTRICAL RISER DIAGRAM  
 SCALE: N.T.S.



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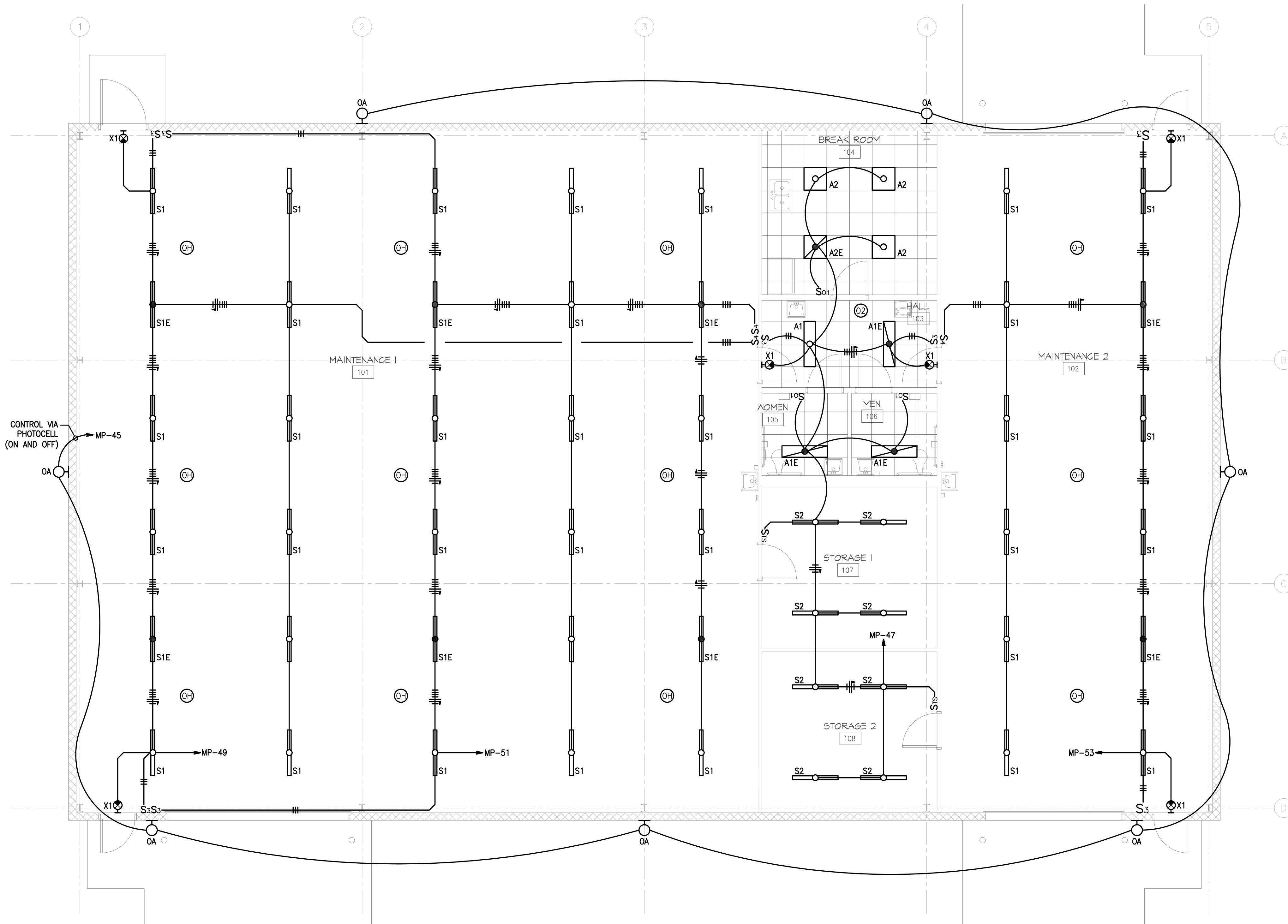
Revisions:	

**Cobb County Parks  
 New Maintenance Building**  
 1792 County Services Parkway  
 Marietta, GA 30008

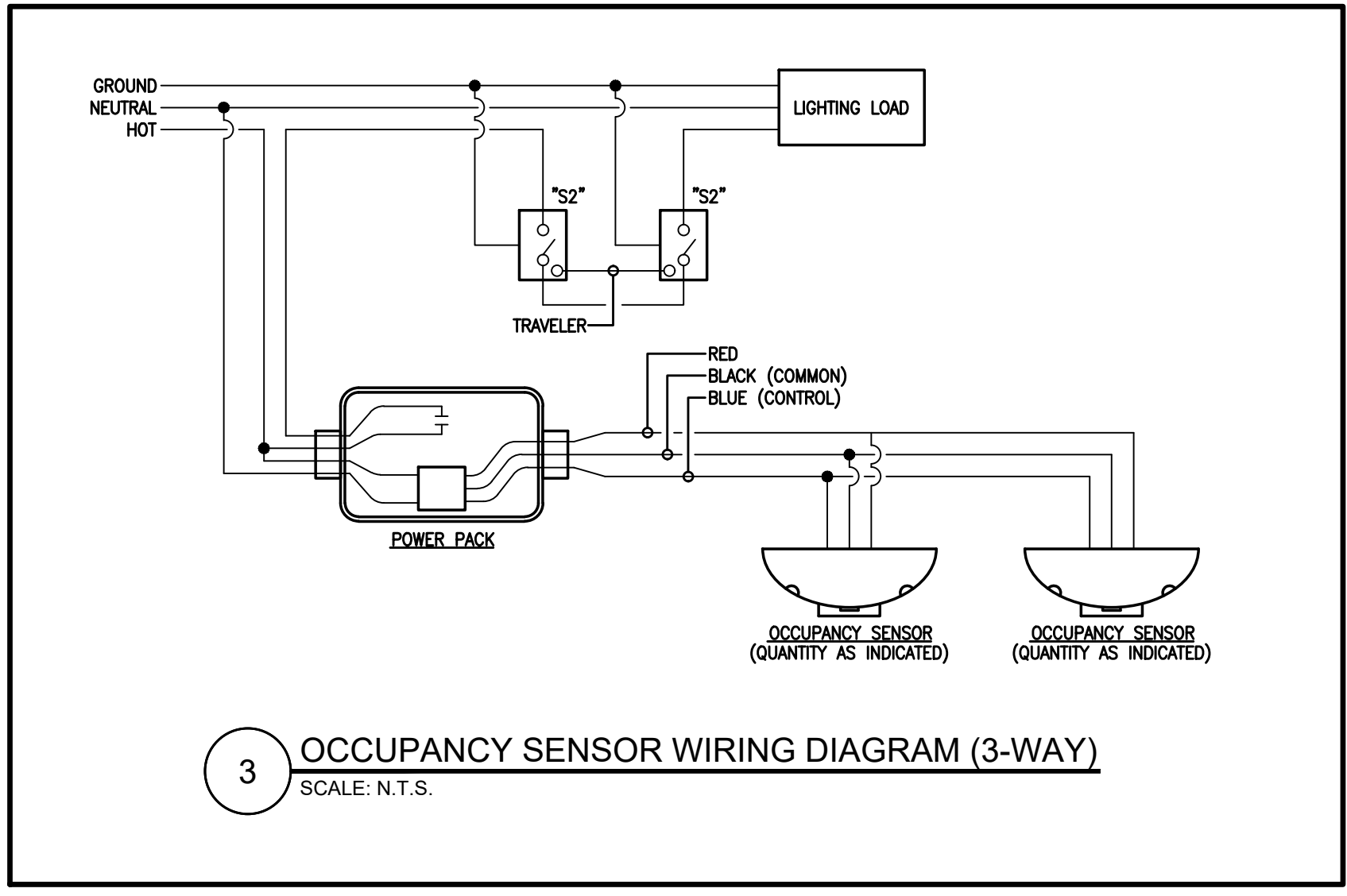
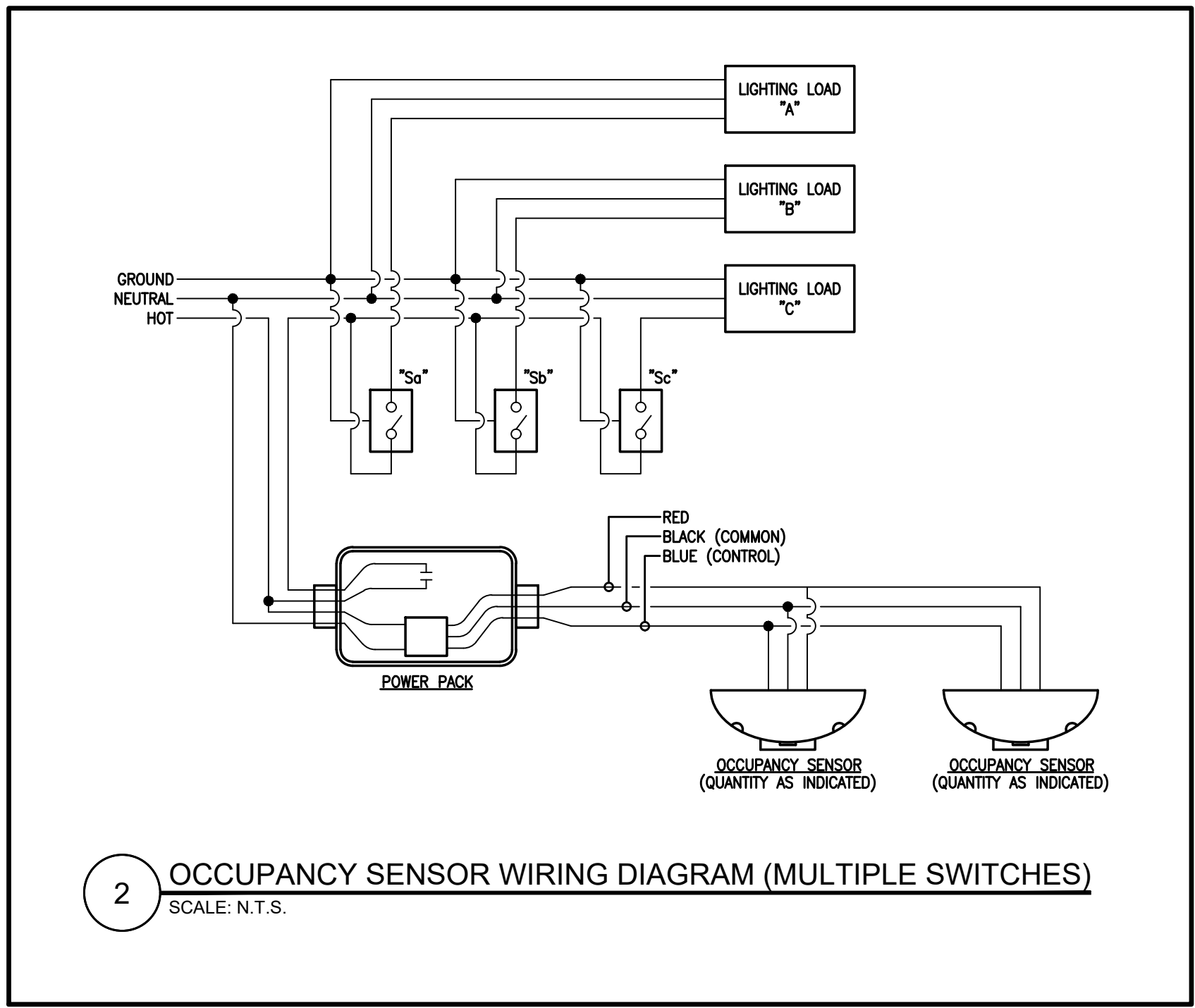
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Sheet Title:  
**ELECTRICAL LEGEND, NOTES, DETAILS AND SCHEDULES**  
 Drawn By: M.T.F.  
 Scale: AS NOTED  
 Date: 01/13/2023  
 Job No.: 2209  
 Sheet No.:

**E-1.1**



**1 ELECTRICAL FLOOR PLAN - LIGHTING**  
SCALE: 3/16"=1'-0"



**BOLDEN-WILLIAMS**  
ARCHITECTS INC.  
3066 HIGHWAY 29 SOUTH  
LAWRENCEVILLE, GEORGIA 30044  
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BWA PROJECT #220294

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Revisions:

No.	Description

**Cobb County Parks  
New Maintenance Building**  
1792 County Services Parkway  
Marietta, GA 30008

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Sheet Title:  
**ELECTRICAL FLOOR PLAN LIGHTING**  
Drawn By: M.T.F.  
Scale: AS NOTED  
Date: 01/13/2023  
Job No.: 2209  
Sheet No.:

**E-2.1**

**NOTES**  
(THIS SHEET ONLY)

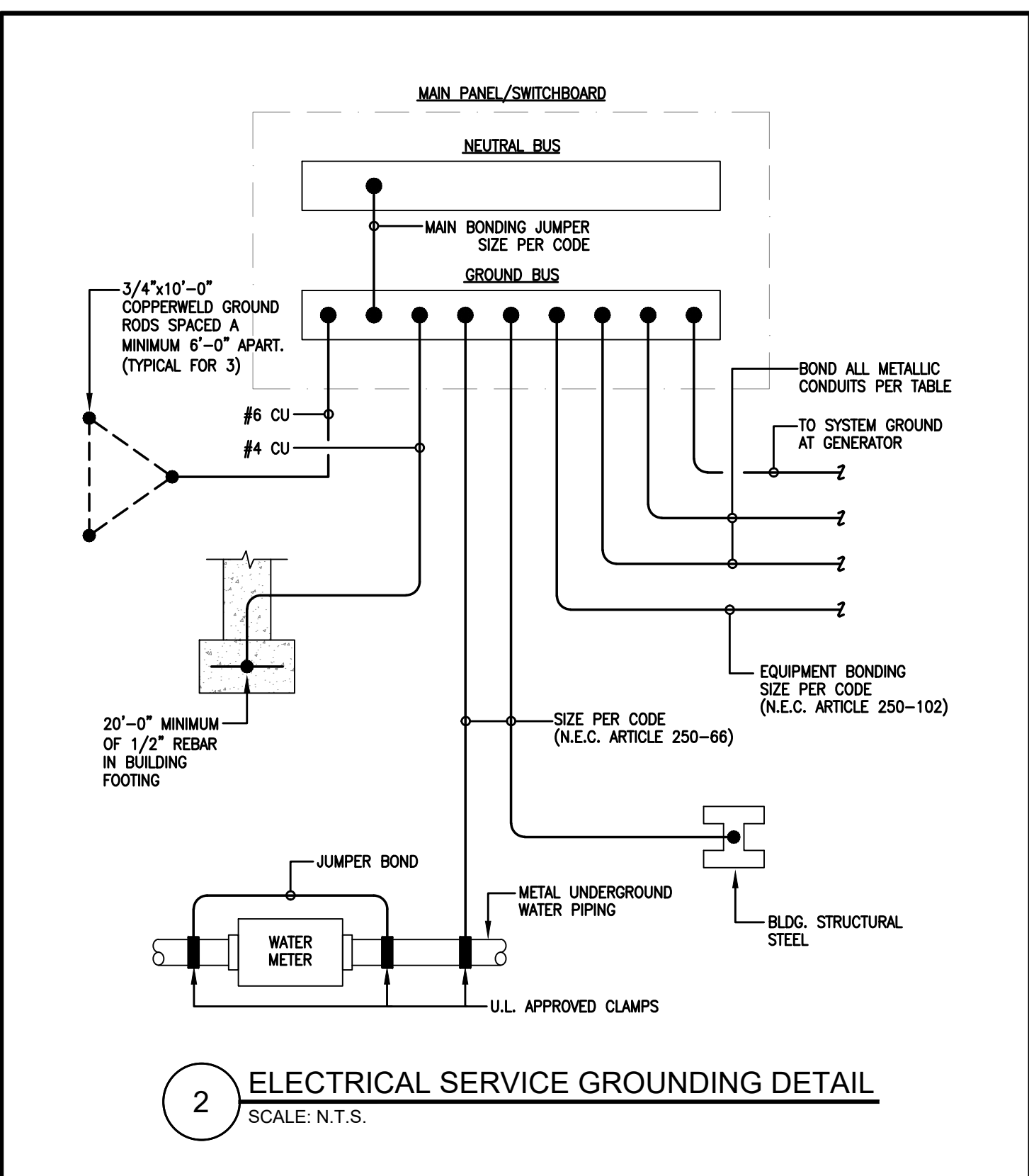
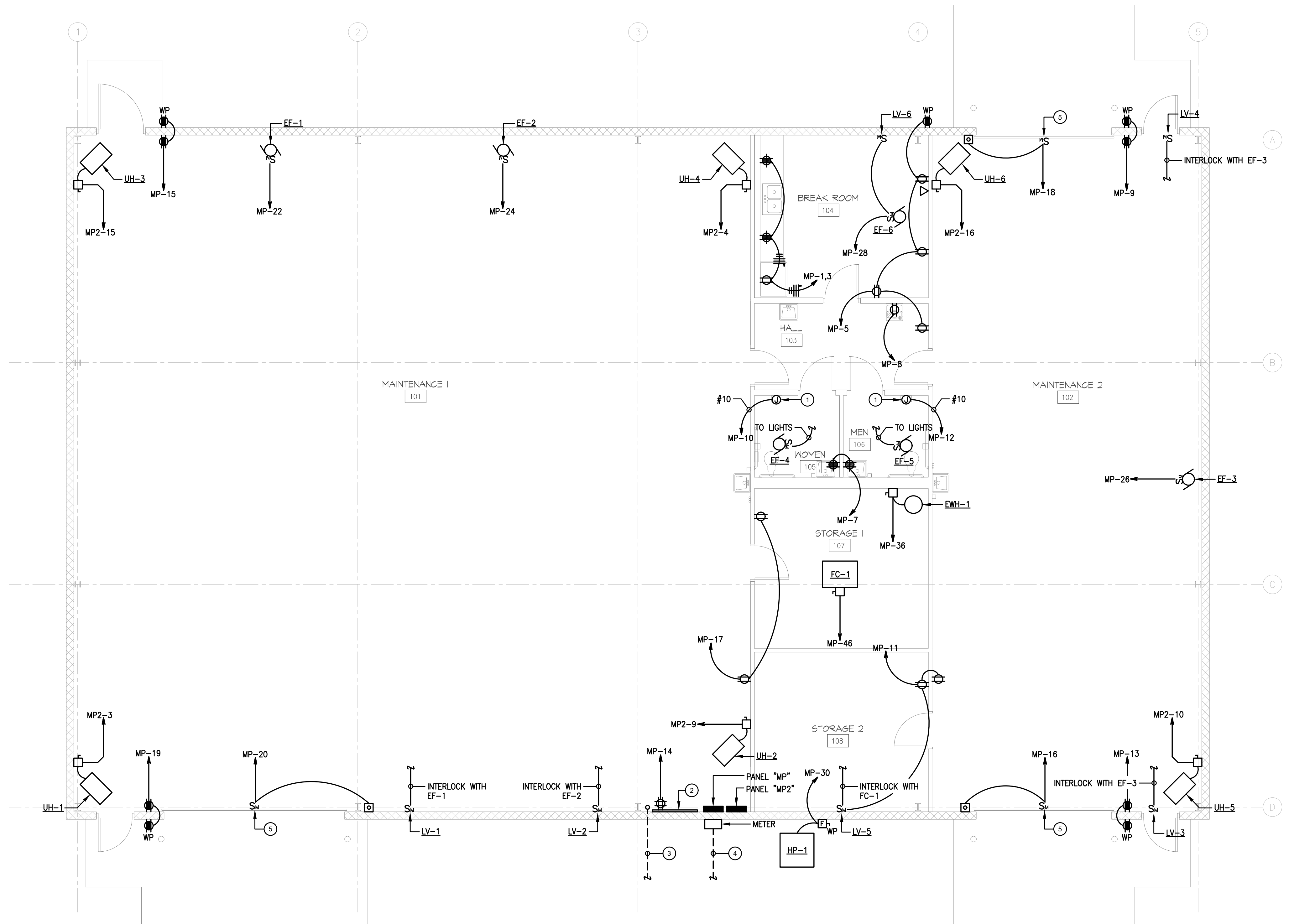
- ELECTRIC HAND DRYER, WIRE PER MANUFACTURER'S SPECIFICATIONS.
- TELEPHONE BACKBOARD, 4"x8"x3/4" GRADE A/C PLAYWOOD, PAINTED WITH (2) COATS OF FIRE RESISTANT GRAY PAINT. RUN #6CU GROUND TO MAIN BUILDING GROUND.
- (2) 3" PVC CONDUITS TO PROPERTY LINE FOR TELEPHONE SERVICE. COORDINATE ALL DETAILS WITH TELEPHONE COMPANY PRIOR TO ROUGH-IN.
- UNDERGROUND SERVICE, REFER TO RISER DIAGRAM.
- MOTORIZED DOOR, VERIFY ELECTRICAL REQUIREMENTS PRIOR TO ROUGH-IN.

**HVAC/ELECTRICAL SCHEDULE**

MARK	VOLT/PHASE	FLA	KVA	MCA	MOCP	DISC. SIZE (F) = FUSED	WIRE SIZE	NOTES
HP-1	208/1	18.0	3.7	-	40/2	(F) 60/2/40	2#8, 1#10G, 3/4"C	-
EF-1	120/1	13.8	1.65	-	25/1	M.R.S.	2#10, 1#10G, 1/2"C	-
EF-2	120/1	13.8	1.65	-	25/1	M.R.S.	2#10, 1#10G, 1/2"C	-
EF-3	120/1	9.8	1.17	-	20/1	M.R.S.	2#12, 1#12G, 1/2"C	-
EF-4	208/1	0.13	0.02	-	15/1	M.R.S.	2#12, 1#12G, 1/2"C	-
EF-5	208/1	0.13	0.02	-	15/1	M.R.S.	2#12, 1#12G, 1/2"C	-
EF-6	208/1	0.13	0.02	-	15/1	M.R.S.	2#12, 1#12G, 1/2"C	-
EW-1	208/1	19.2	4.00	-	30/2	30/2	3#10, 1#10G, 1/2"C	-
FC-1	208/1	27.7	5.76	-	45/2	60/2	2#4, 1#8G, 1"C	-
UH-1	208/3	41.6	15.0	-	50/3	60/3	3#6, 1#10G, 1"C	-
UH-2	208/3	41.6	15.0	-	50/3	60/3	3#6, 1#10G, 1"C	-
UH-3	208/3	41.6	15.0	-	50/3	60/3	3#6, 1#10G, 1"C	-
UH-4	208/3	41.6	15.0	-	50/3	60/3	3#6, 1#10G, 1"C	-
UH-5	208/3	41.6	15.0	-	50/3	60/3	3#6, 1#10G, 1"C	-
UH-6	208/3	41.6	15.0	-	50/3	60/3	3#6, 1#10G, 1"C	-

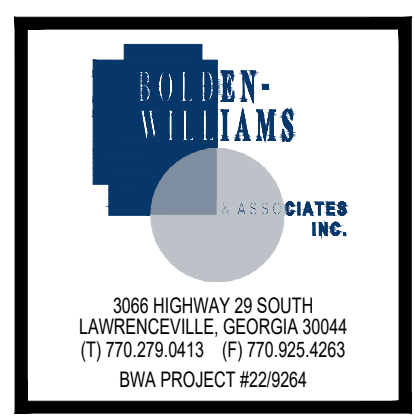
**GENERAL NOTES:**

- ALL DISCONNECT SWITCHES SHALL BE HEAVY DUTY, 250 VOLT, WITH VARIABLE COVER INTERLOCK, NEMA 1 FOR INDOOR USE AND NEMA 3R FOR OUTDOOR USE.
- OVERCURRENT PROTECTION, WIRE SIZE AND NUMBER OF CONNECTION POINTS FOR MECHANICAL HVAC EQUIPMENT IS FOR ITEMS AS SPECIFIED. COORDINATE WITH MECHANICAL CONTRACTOR AND MAKE NECESSARY CHANGES PRIOR TO INSTALLATION FOR ACTUAL EQUIPMENT FURNISHED AT NO COST TO OWNER. MARK ELECTRICAL SHOP DRAWINGS ACCORDINGLY. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT.



**1 ELECTRICAL FLOOR PLAN - POWER**  
SCALE: 3/16"=1'-0"

**2 ELECTRICAL SERVICE GROUNDING DETAIL**  
SCALE: N.T.S.

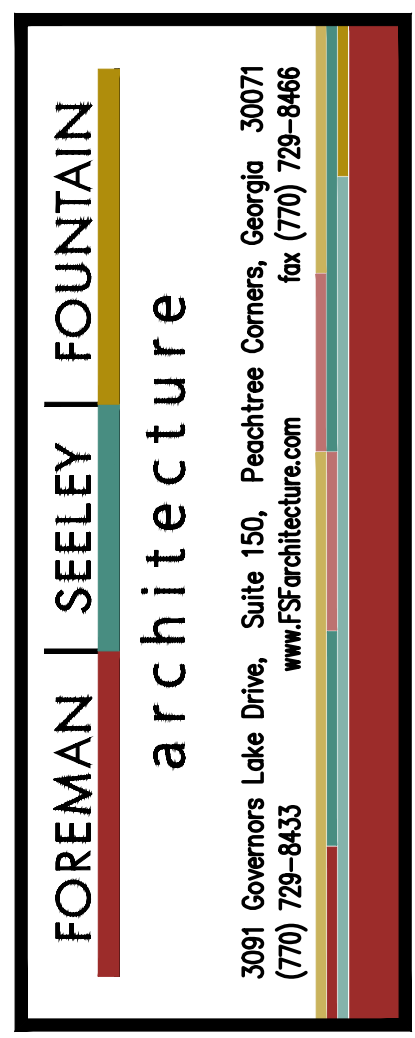


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**Revisions:**

No.	Description

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New Maintenance Building**  
1792 County Services Parkway  
Marietta, GA 30008



Sheet Title:  
**ELECTRICAL FLOOR PLAN POWER**

Drawn By: M.T.F.

Scale: AS NOTED

Date: 01/13/2023

Job No.: 2209

Sheet No.:

**E-3.1**



ELECTRICAL SPECIFICATIONS

SECTION 16010 - ELECTRICAL GENERAL PROVISIONS

PART 1 - GENERAL

- 1.1 WORK INCLUDED
A. PROVIDE A COMPLETE ELECTRICAL INSTALLATION CONSISTING OF ELECTRICAL SERVICE, DISTRIBUTION, LIGHTING SYSTEM, LIFE SAFETY SYSTEM, AND LOCAL TELEPHONE, DATA, AND VIDEO SYSTEM.
1.2 CODES
A. ALL ELECTRICAL WORK UNDER THE REQUIREMENTS OF THESE SPECIFICATIONS SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, AND THE OCCUPATIONAL SAFETY AND HEALTH ACT, AND SHALL ALSO BE IN COMPLIANCE WITH ALL APPLICABLE STATE AND/OR LOCAL LAWS AND ORDINANCES.
1.3 DRAWINGS
A. THE LOCATIONS SHOWN ON THE DRAWINGS ARE, UNLESS DIMENSIONED, ONLY APPROXIMATE AND ACTUAL LOCATIONS FOR INSTALLATION SHALL BE SELECTED WITH DUE CONSIDERATION FOR THE FEATURES OF THE CONSTRUCTION AND THE WORK OF OTHER TRADES.
B. NO DEVIATIONS FROM THE DRAWINGS AND SPECIFICATIONS SHALL BE MADE. IF IT IS FOUND THAT EXISTING CONDITIONS MAKE DESIRABLE A MODIFICATION IN REQUIREMENTS COVERING ANY PARTICULAR ITEM, REPORT SUCH ITEM TO THE ARCHITECT FOR HIS DECISION AND INSTRUCTIONS.
1.4 COORDINATING WITH OTHER DIVISIONS
A. MOTORS WILL, UNLESS NOTED OTHERWISE, BE FURNISHED WITH THE EQUIPMENT THEY DRIVE.
B. POWER WIRING AND CONNECTIONS FOR ALL HEATING, VENTILATING AND AIR CONDITIONING EQUIPMENT SHALL BE FURNISHED UNDER THIS DIVISION.
C. CONTROLLERS AND INTERLOCK WIRING, INCLUDING CONDUIT, WIRE AND CONNECTIONS FOR ALL HEATING, VENTILATING AND AIR CONDITIONING EQUIPMENT SHALL BE FURNISHED UNDER OTHER DIVISIONS OF THE SPECIFICATIONS AS INDICATED ON THE DRAWINGS.
D. DISCONNECT SWITCHES, WHERE NOT FURNISHED WITH EQUIPMENT, WILL BE FURNISHED AND MOUNTED UNDER THIS DIVISION OF THE SPECIFICATIONS AS INDICATED ON THE DRAWINGS.
E. CONTROL CONNECTIONS FOR 120 VOLT EXHAUST FANS WILL BE FURNISHED UNDER THIS DIVISION.
F. COORDINATION OF SPACE REQUIREMENTS WITH ALL TRADES SHALL BE PERFORMED SO THAT:
1. NO PIPING OR DUCTWORK OTHER THAN ELECTRICAL, SHALL BE RUN WITHIN 42" OF PANELBOARDS, SWITCHBOARDS OR TRANSFORMERS.
2. NO PIPES OR DUCTS THAT OPERATE AT A TEMPERATURE IN EXCESS OF 120 DEGREE F. SHALL BE INSTALLED NEARER THAN 3" TO ANY ELECTRICAL CONDUCTOR.
1.5 ADJUSTING AND TESTING
A. ALL ELECTRICAL EQUIPMENT FURNISHED UNDER THIS CONTRACT INCLUDING THE ELECTRICAL EQUIPMENT FURNISHED UNDER OTHER SECTIONS SHALL BE TESTED FOR PROPER OPERATION UNDER THIS SECTION. PROTECTIVE DEVICES SHALL BE EXAMINED FOR PROPER RATING AND ADJUSTED AS NECESSARY. COMPLETED WIRING SYSTEMS SHALL BE FREE OF SHORT CIRCUITS.
1.6 CERTIFICATES OF APPROVAL
A. ALL NECESSARY PERMITS, INSPECTION FEES AND LICENSES SHALL BE OBTAINED AND PAID FOR.
B. AT THE COMPLETION OF THE BUILDING, FURNISH AND DELIVER TO THE OWNER, CERTIFICATES OF APPROVAL FROM THE LOCAL INSPECTING AUTHORITY FOR THE NATIONAL BOARD OF FIRE UNDERWRITERS AND OTHER AGENCIES HAVING AUTHORITY, INDICATING APPROVAL OF THE ELECTRICAL WORK INSTALLED UNDER THE CONTRACT.
1.7 SHOP DRAWINGS
A. SHOP DRAWINGS AND/OR CATALOG DATA ON ALL ITEMS OF EQUIPMENT AND MATERIALS SHALL BE SUBMITTED IN CONFORMANCE WITH REQUIREMENTS OF THE GENERAL AND SUPPLEMENTARY CONDITIONS. THE RESPONSIBILITY OF COMPLYING WITH THE CONTRACT DOCUMENTS SHALL NOT BE RELIEVED BY THE ENGINEER'S REVIEW OF SHOP DRAWINGS.
1.8 MATERIAL, WORKMANSHIP, AND PROTECTION
A. MATERIAL AND APPARATUS OF THE LATEST AND BEST DESIGN AND MANUFACTURE SHALL BE INSTALLED TO PROVIDE COMPLETE ELECTRICAL SYSTEMS. EXPERIENCED MECHANICS OF PROPER TRADES SHALL PERFORM WORK AND WORK HARMONIOUSLY WITH ALL OTHER TRADES. ALL WORK, MATERIAL, FIXTURES, APPARATUS, ETC., SHALL BE PROTECTED FROM INJURY OR DAMAGE AND DELIVERED CLEAN. ALL CUTTING AND CHANNELING SHALL BE ACCOMPLISHED WITHOUT REMOVAL OF EXCESS MATERIALS. PATCH AND REPLACE ALL CUT AND CHANNELLED AREAS WITH MATERIAL SIMILAR TO ADJACENT CONSTRUCTION.
B. UNLESS NOTED OTHERWISE, ALL MATERIAL SHALL BE NEW AND SHALL BEAR THE INSPECTION LABEL OF UNDERWRITERS' LABORATORIES, INC. (UL).
1.9 GUARANTEE
A. DEFECTS DUE TO FAULTY MATERIAL, WORKMANSHIP OR DESIGN WHICH DEVELOP WITHIN ONE YEAR FROM DATE OF FINAL ACCEPTANCE ARE TO BE PROPERLY REMEDIED, REPLACED AND MADE GOOD WITHOUT COST TO THE OWNER.
END OF SECTION 16010

SECTION 16100 - BASIC MATERIAL AND METHODS

PART 1 - GENERAL

- 1.1 DESCRIPTION
A. THIS SECTION COVERS THE BASIC ELECTRICAL MATERIALS AND METHODS THAT ARE APPLICABLE TO ALL SECTIONS OF DIVISION 16.
B. MATERIAL FURNISHED FOR INCLUSION IN THE WORK SHALL HAVE BEEN DESIGNED, BUILT AND TESTED IN ACCORDANCE WITH IEEE STANDARDS, SHALL BE APPROVED AND LABELED BY THE UNDERWRITERS' LABORATORIES, INC. AND SHALL BE NEW, UNLESS OTHERWISE NOTED.
C. ALL MATERIAL AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
PART 2 - PRODUCTS
2.1 CONDUIT AND RACEWAYS
A. RIGID STEEL CONDUIT SHALL BE LOW CARBON, HOT-DIPPED GALVANIZED BOTH INSIDE AND OUT WITH THREADED JOINTS.
B. INTERMEDIATE METAL CONDUIT (IMC) SHALL BE STEEL, GALVANIZED BOTH INSIDE AND OUT WITH THREADED JOINTS.
C. ELECTRICAL METALLIC TUBING (EMT) SHALL BE STEEL, GALVANIZED BOTH INSIDE AND OUT.
D. FLEXIBLE CONDUIT SHALL BE FLEXIBLE STEEL CONDUIT TUBING AND SHALL MEET UNDERWRITERS' LABORATORIES STANDARD FOR FLEXIBLE STEEL CONDUIT.
E. STEEL CONDUIT APPROVED MANUFACTURERS ARE ALLED, SOUTHWIRE, TRIANGLE, REPUBLIC, WHEATLAND AND PITTSBURGH.
F. PVC CONDUIT SHALL BE SCHEDULE 40 POLYVINYL CHLORIDE, CONFORMING TO UL65.
2.2 CONDUIT FITTINGS
A. RIGID STEEL AND IMC CONDUIT FITTINGS SHALL BE ZINC-COATED, FERROUS METAL AND THREADED TYPE.
B. EMT FITTINGS SHALL BE ZINC-COATED HEX-NUT COMPRESSION OR SET-SCREW TYPE. EMT CONNECTORS SHALL HAVE INSULATED THROATS. DIE-CAST FITTINGS WILL NOT BE ALLOWED.
C. CONDUIT CONNECTIONS TO PANEL CABINETS AND PULL BOXES SHALL HAVE GROUNDING WEDGE LUGS BETWEEN THE BUSING AND THE BOX OR LOCKNUTS DESIGNED TO BITE INTO THE METAL.
D. EACH END OF EACH CONDUIT SHALL BE PROVIDED WITH EITHER AN INSULATED THROAT CONNECTOR OR SEPARATE LOCKNUT AND INSULATED BUSHING. BUSHING SHALL BE INSTALLED BEFORE ANY WIRE IS PULLED.
E. WHERE HUBS OR WATER-TIGHT THREADED CONNECTIONS ARE NOT PROVIDED AS A PART OF THE ENCLOSURE AND ARE REQUIRED, WATER-TIGHT HUBS SIMILAR AND EQUAL TO MYERS "SCRU-TITE" HUBS SHALL BE INSTALLED.
F. JUNCTION BOXES SHALL BE OF CODE GAUGE METAL WITH CONTINUOUSLY WELDED JOINTS OR OF CAST METAL AS CALLED FOR ON THE DRAWINGS. ALL JUNCTION BOXES SHALL BE GASKETED SCREW COVER BOXES.
G. PULL FITTINGS SHALL BE TYPE "1B", "C", AND "TB" CONDULET FITTINGS ON INDIVIDUAL CONDUITS WHERE CONDUCTOR SIZE DOES NOT EXCEED #2 AWG FOR 600 VOLT INSULATION. O.Z. MFG. CO. TYPE "TBM", APPLITION ELECTRIC CO. TYPE "PTIC", OR APPROVED EQUAL. PULL BOX FITTINGS OF THE PROPER LENGTH FOR THE SIZE CONDUIT INVOLVED AND THE SIZE AND TYPE OF CONDUCTORS CONTAINED, SHALL BE USED IN ALL OTHER CASES UNLESS OTHERWISE NOTED ON THE DRAWINGS.
H. CONDUIT FITTINGS APPROVED MANUFACTURERS ARE RACO, STEEL CITY, O.Z., THOMAS & BETTS, EFCOR AND APPLITON.
I. EXPANSION FITTINGS SHALL BE PROVIDED IN ALL CONDUIT WHICH CROSSES AN EXPANSION JOINT.

ELECTRICAL SPECIFICATIONS

- 2.3 CONDUCTORS
A. CONDUCTORS SHALL BE COPPER OF 98% CONDUCTIVITY, 600 VOLT, "THHN", "THHW" OR "XHHW" INSULATION. SIZES SPECIFIED ARE AWG GAUGE FOR NO. 4/0 AND SMALLER AND CIRCULAR MILS (CMC) FOR ALL SIZES LARGER THAN NO. 4/0. CONDUCTORS NO. 10 AND SMALLER SHALL BE SOLID; NO. 8 AND LARGER SHALL BE STRANDED.
B. COPPER CONDUCTOR APPROVED MANUFACTURERS ARE AMCONDA, GENERAL CABLE, GENERAL ELECTRIC, HATFIELD, PARANITE, PHELPS-DODGE, REYNOLDS, SIMPLEX, DIAMOND, ROME AND SOUTHWIRE.
2.4 OUTLETS
A. OUTLET BOXES AND COVERS SHALL BE OF SUCH FORM AND DIMENSIONS AS TO BE ADAPTED TO THEIR SPECIFIC USAGE, LOCATION, SIZE AND QUANTITY OF CONDUIT, AND SIZE AND QUANTITY OF CONDUCTORS ENTERING THE BOXES. IN SPECIAL "FIRE RATED" PARTITIONS, OUTLETS SHALL COMPLY WITH ASTM NO. E119.
B. FLUSH CEILING OUTLETS FOR SURFACE OR PENDANT MOUNTED LIGHTING FIXTURES SHALL BE 4" SQUARE OR OCTAGONAL PRESSED STEEL BOXES. BOXES FOR DEVICES IN UNFINISHED MASONRY WALLS OR STUD WALLS SHALL BE PRESSED STEEL SQUARE CORNER, SECTIONAL SWITCH BOXES, OR SHALL BE 4" SQUARE BOX WITH A SQUARE CORNERED TILE WALL COVER, SET FLUSH WITH MASONRY CONSTRUCTION. BOXES IN CONCRETE CEILING SLABS SHALL BE OCTAGONAL, SHALLOW PRESSED STEEL CONCRETE BOXES. BOXES EXPOSED SHALL BE CAST TYPE.
C. ALL OUTLET BOXES IN PLASTER WALLS OR CEILINGS SHALL BE PROVIDED WITH PLASTER RINGS.
D. JUNCTION BOXES AND ALL OUTLETS NOT INDICATED AS CONTAINING WIRING DEVICES OR LIGHTING FIXTURES SHALL HAVE COVERS. COVERS FOR OUTLETS IN WALLS SHALL BE AS SPECIFIED FOR WALL SWITCHES AND RECEPTACLES.
E. OUTLET BOX APPROVED MANUFACTURERS ARE APPLITION, RACO, STEEL CITY AND CROUSE-HINDS.
2.5 DISCONNECT SWITCHES
A. DISCONNECT SWITCHES SHALL BE "HEAVY-DUTY" TYPE ENCLOSED SWITCHES OF QUICK-MAKE, QUICK-BREAK CONSTRUCTION. SWITCHES SHALL BE HORSEPOWER RATED FOR 600 VOLTS AC AS REQUIRED. LUGS SHALL BE UL LISTED FOR COPPER AND ALUMINUM CABLE.
B. SWITCHES SHALL BE FURNISHED IN NEMA 1 GENERAL PURPOSE ENCLOSURE UNLESS NOTED OTHERWISE. SWITCHES LOCATED ON THE EXTERIOR OF THE BUILDING OR IN "WET" LOCATIONS SHALL HAVE NEMA 3R ENCLOSURES.
C. FUSED DISCONNECT SWITCHES SHALL HAVE REJECTION TYPE FUSE CLIPS WITH DUAL ELEMENT, CURRENT LIMITING FUSES OF RATING SHOWN.
D. MANUAL MOTOR CONTROLLERS FOR SINGLE PHASE, FRACTIONAL HORSEPOWER MOTORS SHALL BE SINGLE OR TWO POLE AS REQUIRED, AND FOR THE PROPER VOLTAGE. EACH SHALL HAVE ONE THERMAL OVERLOAD DEVICE AND SHALL BE GENERAL ELECTRIC R9101Y OR CR101H, OR APPROVED EQUAL.
2.6 WIRING DEVICES
A. TOGGLE SWITCHES SHALL BE SPECIFICATION GRADE RATED 20 AMPERE AT 120 VOLTS A.C. SWITCHES SHALL BE HUBBELL-KELLUMS CATALOG NO. 1221-G, 1222-G, 1223-G, OR 1224-G, DEPENDING ON THE TYPE SWITCH REQUIRED FOR THE APPLICATION INVOLVED, OR AN APPROVED EQUAL.
B. CONVENIENCE OUTLETS SHALL BE 3 WIRE GROUNDING TYPE RATED 20 AMPERES AT 125 VOLTS A.C. OR D.C. DUPLEX RECEPTACLES SHALL BE HUBBELL-KELLUMS NO. 5262-G OR APPROVED EQUAL.
C. DEVICE PLATES TO BE JUMBO STAINLESS STEEL.
D. WEATHERPROOF OUTLETS COVERS SHALL BE TAYMAC DEEP ENCLOSURES WITH "IN USE" COVERS PER NEC.
E. SPECIAL OUTLETS SHALL BE AS INDICATED ON THE DRAWINGS.
F. PROVIDE COVERPLATES FOR ALL TELEPHONE, DATA, AND SPECIAL OUTLETS.
G. COORDINATE ALL WIRING DEVICE AND COVERPLATE FINISHES AND COLORS WITH INTERIOR DESIGNER/ARCHITECT PRIOR TO INSTALLATION.
2.7 PANELBOARDS
A. PANELBOARDS FOR LIGHTING AND APPLIANCE CIRCUITS SHALL BE OF THE DEAD-FRONT TYPE WITH BOLT-ON TYPE MOLDED CASE CIRCUIT BREAKER BRANCHES. DETAILS OF CONSTRUCTION INCLUDING SERVICE VOLTAGE, NUMBER AND RATING OF BRANCHES, SIZE OF MAINS, AND WHETHER SURFACE OR FLUSH MOUNTING ARE INDICATED ON THE DRAWINGS. 120/208 VOLT PANELBOARDS SHALL BE SQUARE-D TYPE NOOB WITH BREAKERS RATED AS INDICATED ON THE DRAWINGS. MULTI-POLE BREAKERS SHALL BE A COMMON TRIP (BREAKER TIE HANDLES NOT PERMITTED). PROVIDE DIRECTORY FRAME ON DOOR WITH TYPEWRITER CARD LISTING CIRCUIT NUMBERS AND DESIGNATIONS. ALL BUSWORK SHALL BE COPPER.
B. COMPARATIVE PANELBOARDS BY SQUARE-D, WESTINGHOUSE, GENERAL ELECTRIC, OR SIEMENS-ALIS-TIE ARE ACCEPTABLE.
2.8 PLYWOOD BACKBOARDS
A. PROVIDE PLYWOOD BACKBOARDS WHERE SHOWN. BACKBOARDS SHALL BE FIRE TREATED AND SHALL BE MINIMUM 3/4" THICK AND SIZES AS SHOWN OR TO ACCOMMODATE EQUIPMENT INDICATED TO BE MOUNTED THEREON.
2.9 SMOKE AND FIRE STOP FITTINGS
A. SMOKE AND FIRE STOP FITTINGS SHALL BE UL LISTED FOR THAT PURPOSE. THE FITTINGS USED TO SEAL CONDUIT EITHER ON THE OUTSIDE OF THE CONDUIT OR INTERNALLY SHALL HAVE HEAT ACTIVATED INTUMESCENT MATERIAL WHICH EXPANDS TO FILL ALL VOIDS AND SHALL BE O.A. (GENERT) "FIRE-SEAL" OR APPROVED EQUAL WITH AN HOURLY FIRE-RATING EQUAL TO OR HIGHER THAN THE RATING OF THE FLOOR OR WALL THROUGH WHICH THE CABLE OR CONDUIT PASSES. THE SEALS FOR CONDUIT SHALL BE OF THE FLANGED TYPE.

PART 3 - EXECUTION

- 3.1 CONDUIT
A. RIGID STEEL OR IMC SHALL BE USED FOR FEEDERS, BRANCH CIRCUITS IN OR UNDER CONCRETE AND FOR FEEDERS AND BRANCH CIRCUITS WHERE EXPOSED TO DAMAGE AND EXPOSED LESS THAN 8' ABOVE FINISHED FLOOR.
B. EMT CONDUIT TO BE USED FOR ALL BRANCH CIRCUITING.
C. PVC CONDUIT SHALL BE INSTALLED FOR EXTERIOR RUNS FOR SITE LIGHTING. A PLASTIC TO RIGID STEEL OR INTERMEDIATE METAL CONDUIT TO RISE ABOVE GRADE. PROVIDE GREEN EQUIPMENT GROUNDING CONDUCTORS IN ALL PLASTIC CONDUITS.
D. CONDUIT SHALL BE CONTINUOUS FROM OUTLET TO OUTLET, FROM OUTLET TO CABINET, JUNCTION BOX AND PULL BOX. CONDUIT SHALL ENTER AND BE SECURED TO ALL BOXES, ETC. IN SUCH A MANNER THAT EACH SYSTEM WILL BE ELECTRICALLY CONTINUOUS FROM SERVICE TO ALL OUTLETS. ALL CONDUIT FROM CABINETS AND JUNCTION BOXES SHALL TERMINATE IN APPROVED OUTLET BOXES OR CONDUIT FITTINGS. CONDUIT CONNECTIONS TO ANY BOX WHICH HAS NO THREADED HUB SHALL BE DOUBLE LOCKNUTTED.
E. PROVIDE JUNCTION BOXES OR PULL BOXES WHERE SHOWN AND WHERE NECESSARY TO AVOID EXCESSIVE RUNS OR TOO MANY BENDS BETWEEN OUTLETS. THE CONDUIT SIZES SHOWN MAY BE INCREASED IF DESIRED TO FACILITATE THE PULLING OF CABLES.
F. PVC TO BE FOR UNDERGROUND SERVICE INTO BUILDING FROM POWER COMPANY TRANSFORMER TO MAIN SERVICE SWITCH.
G. ALL CONDUIT SHALL BE CONCEALED UNLESS INDICATED OTHERWISE. INSTALL EXPOSED CONDUIT PARALLEL WITH OR AT RIGHT ANGLES TO THE BUILDING WALLS AND SUPPORT FROM WALLS OR CEILINGS AT INTERVALS REQUIRED BY CODE WITH APPROVED GALVANIZED IRON CLAMPS OR HANGERS. CONCEALED CONDUIT ABOVE THE CEILING SHALL BE SUPPORTED INDEPENDENT OF CEILING CONSTRUCTION. WHERE CEILINGS OF LAY-IN TYPE ARE USED, CONDUIT MUST BE INSTALLED HIGH ENOUGH TO PERMIT REMOVAL OF CEILING PANELS AND LIGHTING FIXTURES. USE THREADED RODS AND HANGERS FOR SUPPORTING SINGLE CONDUIT. USE TRAPEZOIDAL HANGERS CONSISTING OF DOUBLE-NUTTED THREADED RODS AND "UNISTRUT" CHANNELS OR ANGLES OF 1/2 GAUGE MINIMUM STEEL FOR SUPPORTING MULTIPLE CONDUIT.
H. MINIMUM SIZE CONDUIT FOR BRANCH CIRCUITS SHALL NOT BE SMALLER THAN 1/2". HOME RUNS SHALL EXTEND FROM OUTLETS SHOWN TO PANEL DESIGNATED. HOME RUNS SHOWN MAY BE COMBINED WHERE RUNNING TO THE SAME PANELBOARD. LIMIT MAXIMUM NUMBER OF HOME RUNS PER CONDUIT TO THREE (3).
I. AT COUPLINGS, CONDUIT ENDS SHALL BE THREADED SO THAT THEY MEET IN THE COUPLING. RIGHT AND LEFT HAND COUPLINGS SHALL NOT BE USED; CONDUIT COUPLINGS OF THE ERICKSON TYPE SHALL BE USED AT LOCATIONS REQUIRING SUCH JOINTS.
J. ALL CONDUIT FOR FUTURE USE AND FOR TELEPHONE WIRE SHALL BE LEFT WITH NO. 16 GAUGE WIRE PULLED IN THEM AND THE ENDS SECURELY CORDED OR CAPPED.
K. EXPANSION FITTINGS SHALL BE INSTALLED IN ALL CONDUIT WHICH PASS THROUGH EXPANSION JOINTS.
L. PROVIDE NON-HARDENING ELASTIC TYPE DUCT SEAL COMPOUND, NEER NO. DC, 3M CO. "SCOTCHCR" OR GARDNER BENDER DUCT SEAL FOR EACH CONDUIT ENTERING THE BUILDING FROM OUTSIDE AND FOR EACH CONDUIT PASSING FROM ONE SPACE INTO ANOTHER WHICH IS NORMALLY AT A LOWER TEMPERATURE.
M. SPACE IN SLEEVES OR AROUND CONDUIT THAT PASS THROUGH FIRE RESISTIVE OR FIRE RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE CLOSED BY PACKING WITH A FIRE RESISTIVE MATERIAL THAT WILL MAINTAIN THE RATING OF THE BARRIER PENETRATED.
3.2 FLEXIBLE CONDUIT
A. PVC EXTRUDED COVER FLEXIBLE CONDUIT SHALL BE USED IN MAKING SHORT FLEXIBLE CONNECTIONS TO ROTATING OR VIBRATING MACHINERY OR EQUIPMENT. THE FLEXIBLE CONDUIT AT THESE LOCATIONS SHALL BE AS SHORT AS POSSIBLE, BUT SHALL HAVE A MINIMUM LENGTH OF 12".

ELECTRICAL SPECIFICATIONS

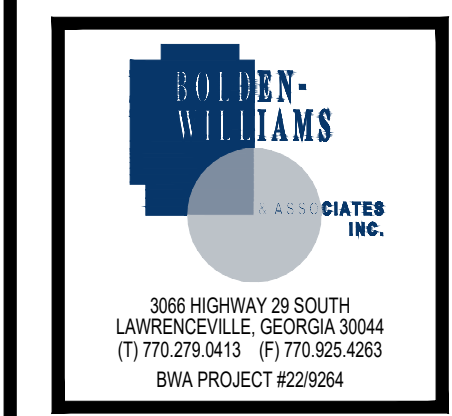
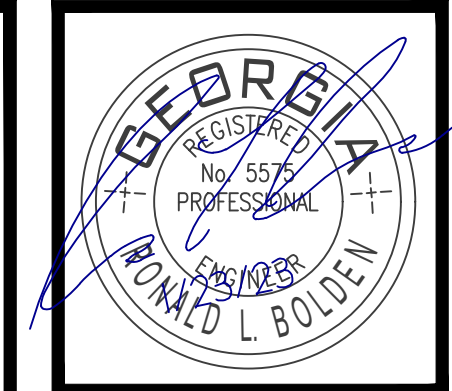
- B. A GREEN STRANDED BONDING JUMPER SHALL BE INSTALLED OUTSIDE OF ALL FLEXIBLE CONDUIT THAT EXTENDS DIRECTLY FROM A NON-FLEX CONDUIT TO A ROTATING OR VIBRATING MACHINE. WHERE A JUNCTION BOX IS USED, THE GREEN STRANDED BONDING JUMPER SHALL BE INSTALLED INSIDE THE FLEXIBLE CONDUIT AND ATTACHED TO THE JUNCTION BOX AND TO THE MACHINE. WHEN THE BONDING JUMPER IS INSTALLED OUTSIDE OF THE FLEXIBLE CONDUIT, PLASTIC WIRE STRAPS SHALL BE USED 6" O.C. TO SECURE THE JUMPER TO THE FLEXIBLE CONDUIT.
3.3 CONDUIT PROTECTION
A. CONDUIT SHALL BE SECURED IN PLACE AND PROTECTED WHERE NECESSARY TO PREVENT DAMAGE TO WORK DURING CONSTRUCTION. THE ENDS OF ALL CONDUIT SHALL BE PLUGGED TO AVOID FILLING WITH ANY FOREIGN MATTER. ALL CONDUIT SHALL BE BLOWN OUT AND SWABBED CLEAR OF WATER AND TRASH PRIOR TO PULLING WIRE.
3.4 WIRING
A. ALL CONDUCTORS SHALL BE INSTALLED IN CONDUIT, UNLESS OTHERWISE NOTED. NO CONDUCTORS SHALL BE PULLED INTO THE CONDUIT UNTIL THE CONDUIT SYSTEM IS COMPLETE AND PLASTER AS DRIED. ONLY U.L. LISTED LUBRICANTS SHALL BE USED IN PULLING CONDUCTORS.
B. WIRING IN PATIENT TREATMENT AND PROCEDURE AREAS SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE 517.13 AND 517.61(C)(1).
C. CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND FROM OUTLET TO JUNCTION BOX OR PULL BOX. ALL SPLICES AND JOINTS SHALL BE CAREFULLY AND SECURELY MADE TO BE MECHANICALLY AND ELECTRICALLY SOLID WITH PRESSURE TYPE CONNECTORS, "SCOTCHLOK" OR APPROVED EQUAL. TAPE SHALL BE "SCOTCH" NO. 33 FOR INDOOR AND NO. 88 FOR OUTDOOR OR APPROVED EQUAL. WHERE CONNECTION IS MADE TO ANY TERMINALS OF MORE THAN 30 AMPERES CAPACITY AND WHERE CONDUCTORS LARGER THAN NO. 10 ARE CONNECTED TO ANY TERMINAL, COPPER TERMINAL LUGS SHALL BE BOLTED TO THE CONDUCTORS. WHERE MULTIPLE CONNECTIONS ARE MADE TO THE SAME TERMINAL, INDIVIDUAL LUGS FOR EACH CONDUCTOR SHALL BE USED.
D. EACH CONDUIT SHALL HAVE A MINIMUM OF TWO (2) CONDUCTORS PULLED IN UNLESS THAT PARTICULAR CONDUIT IS NOTED AS BEING EMPTY FOR FUTURE USE. THE NUMBER OF CROSS HATCHES INDICATES THE NUMBER OF CONDUCTORS TO BE INSTALLED WHEN THE NUMBER EXCEEDS THE MINIMUM OF TWO (2). THIS DOES NOT APPLY TO CONDUIT INSTALLED FOR TELEPHONES AND OTHER SPECIAL SYSTEMS.
E. CONDUCTORS FOR LIGHTING AND RECEPTACLES CIRCUITS SHALL HAVE COLOR CODED JACKETS. THE WIRING SHALL BE COLOR CODED WITH THE SAME COLOR USED WITH ITS RESPECTIVE PHASE THROUGH THE ENTIRE JOB AS FOLLOWS:
120/208 VOLT SYSTEM
PHASE A: BLACK
PHASE B: RED
PHASE C: BLUE
NEUTRAL: WHITE
GROUND: GREEN
E. THE FEEDER AND SERVICE ENTRANCE CONDUCTORS SHALL BE COLOR CODED BY THE USE OF COLORED PLASTIC TAPE APPLIED WITHIN 6" OF EACH CONDUCTOR END.
F. BRANCH CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN NO. 12 AND WHERE THE HOME RUN FROM CENTER OF LOAD EXCEEDS 100'-0", THE CONDUCTORS FROM HOME RUN TO PANEL SHALL BE NO. 10 MINIMUM.
G. BRANCH CIRCUIT WIRING WHICH SUPPLIES MORE THAN ONE (1) FLOURESCENT FIXTURE THROUGH WIREWAY OF OTHER FIXTURES SHALL BE RATED FOR USE AT 105 DEGREE C.
H. FOR BRANCH CIRCUITS TERMINATING IN OUTLET WITHOUT DEVICE, LEAVE MINIMUM OF 12" OF SLACK WIRE WITH TAPED ENDS AND COILED FOR CONNECTION OF EQUIPMENT. ALL CONDUCTORS SHALL BE IDENTIFIED WITH PROPER CIRCUIT NUMBERS AT TERMINALS AND JUNCTION BOXES.
3.5 OUTLETS
E. PROVIDE GALVANIZED STEEL OR CAST TYPE BOXES FOR ALL OUTLETS.
F. WHERE OUTLET BOXES ARE USED TO SUPPORT LIGHTING FIXTURES, THE OUTLET BOX SHALL BE ANCHORED TO THE STRUCTURAL MEMBERS OF THE BUILDING.
G. OUTLET BOXES SHALL BE FLUSH MOUNTED UNLESS THEY ARE SPECIFICALLY SHOWN AS BEING USED WITH EXPOSED CONDUIT OR ARE LOCATED ABOVE A CEILING.
H. WHERE OUTLETS ARE SUPPLIED FROM CONDUIT IN OR BELOW FLOOR SLABS, THE CONDUIT SHALL BE STUBBED UP AT THE LOCATION SHOWN AND THE WALL BUILT UP AROUND THE CONDUIT.
I. CUTS FOR OUTLET BOXES IN MASONRY WALLS SHALL BE MADE SO THAT THE COVERPLATE WILL COMPLETELY COVER THE CUT. THE MOUNTING HEIGHT OF SWITCH, RECEPTACLE AND OTHER OUTLETS MAY BE VARIED SLIGHTLY, WITH THE ARCHITECT'S APPROVAL, SO THAT THE OUTLET BOX, TOP OR BOTTOM, WILL OCCUR AT A MASONRY JOINT.
J. THE EDGE OF ALL OUTLET BOXES SHALL BE FLUSH WITH THE SURFACE IN WHICH THEY ARE RECESSED. THE DEVICES THAT FIT INTO THE OUTLET BOXES SHALL BE SCREWED TIGHT BEFORE THE COVER PLATE IS INSTALLED AND THE COVER PLATE SHALL NOT BE USED AS A MEANS OF TIGHTENING THE DEVICE IN PLACE.
K. WHERE OUTLETS ARE SHOWN AS BEING ADJACENT AND DIFFERENT MOUNTING HEIGHTS ARE SPECIFIED FOR EACH, THEY SHALL BE MOUNTED ONE DIRECTLY OVER THE OTHER, ON THE CENTER LINE OF THE GROUP.
3.6 NAMEPLATES
A. PROVIDE ENGRAVED LAMINATED WHITE CORE NAMEPLATES ON THE MAIN SWITCHBOARD, FEEDER SWITCHES, FEEDER BREAKERS, DISTRIBUTION PANELS, PANELBOARDS, DISCONNECT SWITCHES, CONTACTORS, STARTERS, TIME SWITCHES, START-STOP PUSH BUTTONS AND MOTOR SWITCHES THAT DO NOT HAVE ONE.
B. NAMEPLATES FOR SURFACE MOUNTED EQUIPMENT SHALL BE INSTALLED ON THE EXTERIOR OF EQUIPMENT WITH SHEET METAL SCREWS. NAMEPLATES FOR FLUSH OR RECESSED MOUNTED EQUIPMENT SHALL BE INSTALLED ON THE INSIDE OF THE PANEL DOOR OR COVER WITH EPOXY CEMENT.
3.7 WALL SWITCHES AND RECEPTACLES
A. WHERE MORE THAN ONE DEVICE IS INDICATED AT A LOCATION, THE DEVICES SHALL BE MOUNTED IN COMBINED SECTIONAL GANG BOXES AND COVERED JOINTLY BY A COMMON COVERPLATE.
B. LOCATIONS OF OUTLETS SHOWN ON THE DRAWINGS ARE RELATIVE AND APPROXIMATE UNLESS NOTED OTHERWISE. EXACT LOCATIONS SHALL BE DETERMINED ON THE JOB AND THE OUTLETS ACCURATELY SET ACCORDING TO ARCHITECTURAL DRAWINGS, DIMENSIONS AND ARCHITECT'S DIRECTION.
3.8 COVERPLATES
A. ALL JUNCTION BOXES, OUTLET BOXES, SECTIONAL SWITCH BOXES, UTILITY BOXES, ETC., SHALL BE COVERED WITH A COVERPLATE. THE COVERPLATE SHALL BE A FINISHED PLATE AS SPECIFIED UNLESS DESIGNATED OTHERWISE.
B. COVERPLATES SHALL BE MOUNTED VERTICALLY UNLESS DESIGNATED OTHERWISE.
3.9 GROUNDING
A. GROUND CONNECTIONS SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE REQUIREMENTS.
B. PROVIDE AN 8" LONG GREEN GROUNDING WIRE FROM THE GROUNDING LUG OF ALL RECEPTACLES TO A STEEL CITY "G" CLIP OR A SHEET METAL SCREW IN THE OUTLET BOX. THE GROUND WIRE INSTALLED BEHIND THE DEVICE MOUNTING SCREWS WILL NOT BE ACCEPTABLE.
C. PROVIDE AN INSULATED GREEN BONDING JUMPER FROM THE METAL HOUSING OF WALL MOUNTED OR SUSPENDED LIGHT FIXTURES TO THE GROUNDING OUTLET.
3.10 CONNECTION TO EQUIPMENT
A. EQUIPMENT FURNISHED BY THE OWNER OR UNDER OTHER SECTIONS, SUCH AS MECHANICAL EQUIPMENT, ELEVATORS, SIGNS, KITCHEN EQUIPMENT, ETC. WILL BE INSTALLED BY OTHERS. PROVIDE ELECTRICAL SERVICE AND MAKE THE ELECTRICAL CIRCUIT CONNECTIONS TO THIS EQUIPMENT AS DIRECTED.
3.11 EQUIPMENT SUPPORTS
A. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY SUPPORTS FOR MOUNTING ELECTRICAL APPARATUS. ALL STRUCTURAL SHAPES, RODS, BOLTS, NUTS, ETC., USED TO SUPPORT ELECTRICAL EQUIPMENT SHALL BE GALVANIZED.
3.12 PAINTING
A. EXCEPT AS SPECIFIED HEREIN, PAINTING WILL BE DONE AS DESCRIBED IN OTHER DIVISIONS OF THE SPECIFICATIONS, BUT THE ELECTRICAL INSTALLATION SHALL BE FREE OF RUST, DIRT, GREASE, AND OTHER FOREIGN MATERIAL.
B. EQUIPMENT WITH A FACTORY APPLIED FINISH SHALL HAVE SCRATCHES, CHIPS, ETC., REPAIRED AND REFINISHED TO THE SATISFACTION OF THE ARCHITECT.
3.13 CUTTING AND PATCHING
A. SET SLEEVES FOR CONDUIT ACCURATELY BEFORE THE CONCRETE FLOORS ARE POURED, OR SET BOXES ON THE FORMS SO AS TO LEAVE OPENINGS IN THE FLOORS IN WHICH THE REQUIRED SLEEVES CAN BE SUBSEQUENTLY LOCATED. FILL IN THE CONCRETE VOIDS AROUND THE SLEEVES.
B. SHOULD THE PERFORMANCE OF THIS PRELIMINARY WORK BE NEGLECTED AND SHOULD CUTTING BE REQUIRED IN ORDER TO INSTALL CONDUIT, THEN THE EXPENSE OF THE CUTTING AND RESTORING OF SURFACES TO THEIR ORIGINAL CONDITIONS SHALL BE ACCOMPLISHED WITHOUT INCURRING ADDITIONS TO THE CONTRACT.
END OF SECTION 16100

ELECTRICAL SPECIFICATIONS

SECTION 16500 - LIGHTING

PART 1 - GENERAL

- 1.1 SCOPE
A. THE WORK INCLUDED UNDER THIS SECTION INCLUDES THE FURNISHING AND INSTALLATION OF ALL LIGHT FIXTURES.
PART 2 - PRODUCTS
2.1 LIGHTING FIXTURES
A. LIGHTING FIXTURES SHALL BE FURNISHED COMPLETE WITH MOUNTING ACCESSORIES TO SUIT THE SPECIFIC SERVICE INTENDED. FIXTURES SHOWN IN THE SCHEDULE TO BE RECESSED WILL BE COMPLETE WITH ACCESSORIES TO FURNISH SUPPORT FROM THE STRUCTURE ABOVE AND/OR ANY OTHER ACCESSORIES REQUIRED TO FIT THE ABOVE FIXTURES TO THE CEILING CONSTRUCTION.
B. FIXTURES SCHEDULED TO BE PENDANT MOUNTED SHALL BE COMPLETE WITH SUPPORTS ABOVE THE CEILING, STEMS AND CANOPIES, SWIVEL ALIGNERS AND/OR OTHER ACCESSORIES NECESSARY TO SUSPEND THE FIXTURES AT THE SPECIFIED HEIGHT ABOVE THE FLOOR.
C. FIXTURES SCHEDULED TO BE SURFACE MOUNTED SHALL BE FURNISHED AND INSTALLED EMPLOYING SUPPORTS ABOVE THE CEILING, TOGGLE BOLTS AND ANY OTHER ACCESSORIES WHICH ARE REQUIRED TO ADEQUATELY SUPPORT THE FIXTURES.
D. FLOURESCENT FIXTURES IN CONTINUOUS ROWS SHALL BE SUPPLIED WITH ALL FIXTURE COUPLINGS, CHASE NIPPLES, AND/OR OTHER ACCESSORIES RECOMMENDED BY THE MANUFACTURER FOR CONTINUOUS ROW INSTALLATION.
E. FLOURESCENT FIXTURES SHALL BE COMPLETE WITH CLASS "P" ELECTRONIC BALLASTS DESIGNED TO OPERATE RAPID START TB LAMPS.
F. LAMPS SHALL BE FURNISHED AND INSTALLED IN ALL FIXTURES. FLOURESCENT LAMPS SHALL BE ENERGY SAVING TYPE. REFER TO THE LIGHT FIXTURE SCHEDULE ON THE DRAWINGS FOR COMPLETE INFORMATION. ALL LAMPS SHALL BE PHILLIPS, G.E., OR OSRAM/SYLVANIA.
G. EXIT SIGNS SHALL HAVE METAL STENCILS, RED LETTERS WITH A LAMP LIFE OF 50,000 HOURS.
H. REFER TO DRAWINGS FOR LIGHTING FIXTURE SCHEDULE AND LAMPS.
2.2 DIFFUSERS
A. UNLESS SPECIFIED OTHERWISE, ALL PRISMATIC DIFFUSERS FOR FLOURESCENT LIGHTING FIXTURES SHALL BE PRISMATIC ACRYLIC KSH K12 OR APPROVED EQUAL WITH A THICKNESS OF 0.156", MEASURED FROM THE BACK SIDE OF THE PEAK OF THE PRISM.
B. ALL WRAPAROUND LENS SHALL BE VIRGIN ACRYLIC, ONE-PIECE AND INJECTION MOLED.
2.3 LIGHTING FIXTURE TRIM
A. EACH RECESSED LIGHTING FIXTURE SHALL HAVE A TRIM TO MATCH THE TYPE OF CEILING (PLASTER, EXPOSED GRID, CONCEALED SPLINE, EXPOSED PANEL, ETC.) IN WHICH IT IS BEING INSTALLED, REGARDLESS OF CATALOG NUMBER GIVEN. COORDINATE WITH THE ARCHITECT'S REFLECTED CEILING PLAN TO PROVIDE THE RIGHT TRIM FOR THE TYPE OF CEILING IN WHICH THE FIXTURE IS TO BE INSTALLED.
B. EACH LIGHTING FIXTURE RECESSED IN A PLASTERED CEILING OF ANY TYPE SHALL HAVE A PLASTER FRAME.
2.4 OTHER MATERIAL
A. ALL OTHER MATERIALS AND ACCESSORIES, NOT SPECIFICALLY DESCRIBED OR CALLED FOR, BUT WHICH ARE REQUIRED FOR A COMPLETE AND FINISHED INSTALLATION FOR THE WORK OF THIS SECTION SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THESE MATERIALS SHALL BE SELECTED BY THE CONTRACTOR, SUBJECT TO BE REVIEWED BY THE ARCHITECT.
PART 3 - EXECUTION
3.1 CAREFULLY INSTALL ALL THE SCHEDULE AND ALL SPECIFIED LIGHTING FIXTURES IN EACH OF THE AREAS INDICATED. FIXTURES SHALL BE FURNISHED TO EXACTLY FIT THE TYPE OF CEILING SYSTEM AS SCHEDULED FOR THE SPACE.
3.2 FIXTURE MOUNTING DETAILS SHALL BE CHECKED WITH THE CEILING DETAILS AND FLANGES, LAY-IN OR WET OR DRY CEILING MOUNTING SHALL BE VERIFIED BEFORE THE FIXTURES ARE ORDERED. THE CONTRACTOR SHALL COORDINATE THIS ITEM. FLOURESCENT FIXTURE SHALL BE INSTALLED WITH (2) 12 GAUGE WIRES. LAY-IN FIXTURES SHALL BE INSTALLED WITH ALIGNMENT CLIPS AND 12 GAUGE WIRES.
3.3 ALL FLEXIBLE CONDUIT USED TO CONNECT LAY-IN FIXTURES TO JUNCTION BOXES SHALL HAVE 2 #12 POWER AND 1 #12 GREEN GROUND WIRE MINIMUM IN 1/2" FLEX. ALL WIRE SHALL BE FLEXIBLY STRANDED.
3.4 ALL EXIT SIGNS SHALL BE INSTALLED SO THAT THEY CAN BE SEEN IN ALL DIRECTIONS. THEY SHALL NOT BE INSTALLED BEHIND ANY PIPE OR OTHER PIECE OF EQUIPMENT. THE STEMS ON ALL CEILING MOUNTING LIGHTS SHALL BE OF SUCH LENGTH THAT THE LIGHTS SHALL BE VISIBLE.
3.5 SUPPORT OF LIGHTING FIXTURES
A. ALL LIGHTING SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE. THE FIXTURES SHALL BE SUPPORTED IN A MANNER THAT WILL INSURE THE FIXTURE WEIGHT BE EQUALLY DISTRIBUTED FROM EACH SUPPORT AND THE FIXTURE REMAINING IN A LEVEL POSITION.
B. FLOURESCENT FIXTURES INSTALLED RECESSED IN A SUSPENDED CEILING SYSTEM SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE WITH TWO (2) 12 GAUGE WIRES ON DIAGONAL CORNERS OF THE FIXTURE. IN ADDITION, THE FIXTURE SHALL BE CLIPPED TO MEMBERS OF THE CEILING SUSPENSION SYSTEM.
C. FLOURESCENT FIXTURES INSTALLED IN OR ON ANY CEILING OTHER THAN A SUSPENDED CEILING SYSTEM SPECIFICALLY MENTIONED ABOVE SHALL BE SUPPORTED WITH CONCEALED STEEL RODS. RODS SHALL BE 1/4" DIAMETER MINIMUM AND SHALL BE LOCATED WHERE RECOMMENDED BY THE FIXTURE MANUFACTURER. PROVIDE A MINIMUM OF TWO (2) SUPPORTS FOR EACH 4" OR 8" FIXTURE CHASSIS. SUPPORTS SHALL BE MAXIMUM OF 48" CENTERS. FOR INCANDESCENT FIXTURES, STEEL HANGING WIRE MAY BE USED BY ATTACHING THE WIRE TO FIXTURE MOUNTING FRAME.
D. PENDANT MOUNTED INCANDESCENT FIXTURES SHALL BE STEM SUPPORTED BY A FIXTURE STUD MOUNTED IN THE OUTLET BOX. SUSPENDED FLOURESCENT FIXTURES SHALL HAVE MOUNTING STEMS LOCATED AS PER THE MANUFACTURER'S RECOMMENDATIONS, BUT IN NO CASE SHALL HAVE LESS THAN TWO (2) STEMS PER CHASSIS.
3.6 FINAL
A. PROTECT FINISHED INSTALLATION FROM DAMAGE BY OTHER TRADES.
B. REMOVE RUBBISH AND LEFT OVER MATERIALS FROM THE SITE.
END OF SECTION 16500



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Revisions table with columns for revision number, description, and date.

Cobb County Parks New Maintenance Building
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Sheet Title: ELECTRICAL SPECIFICATIONS
Drawn By: M.T.F.
Scale: AS NOTED
Date: 01/13/2023
Job No.: 2209
Sheet No.:

E-4.1