Macon-Bibb County Government

Procurement Department
Government Center
700 Poplar Street, Suite 308
Macon, Georgia 31201
(478) 803-0550
Fax (478) 751-7252

Chauncey Wilmore
Senior Procurement Officer

May 19, 2017
ADDENDUM #2

To: ALL PROSPECTIVE FIRMS

Re: INVITATION FOR BIDS: **17-037-CW New Senior Citizen Community Center**

The Invitation for Bids, referenced above, is modified as follows:

1. Attached are all the new items to be incorporated into the bid.

Please incorporate this change into the Invitation for Bid and acknowledge receipt of this addendum on your bid form.

Sincerely,

Chauncey Wilmore

Chauncey Wilmore
Senior Procurement Officer

indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this submitted bid.

9. We understand the total bid price listed below to be inclusive of all materials, labor, equipment, and other provisions necessary to provide the services in accordance with the associated specification.

Bid Price Form

For

New Senior Citizens Community Center

Total Bid Price	$_____
Additive Alternate for the Drive-thru Entrance Canopy	$_____
Time Line for Project	_____ **Calendar Days**

I certify that my bid meets these minimum specifications. This bid shall be valid and may not be withdrawn for a period of ninety (90) calendar days after the scheduled closing time for receiving bids.

Printed Name: _____

Authorized Signature: _____ **Date:** _____

Company Name: _____

Macon-Bibb County Senior Citizens Community Center

Information for Addendum No. 2

Revisions to Bid Requirements

Separate pricing for the covered entrance drop-off is to be an additive alternate as indicated on the attached revised Bid Form.

Revisions to Specifications

1. Section 07 2100 Thermal Insulation:
   Demilec Sealection 500 is an acceptable substitute for the Spray Foam Insulation.

   R-Max ECOMAXci is an approved substitute for the Isocyanurate Insulation Sheathing.
2. Section 07 2726 Fluid-Applied Vapor-Permeable Membrane Air Barriers:
   WR Meadows Airshield TMP and GE Momentive Elemax 2600 are acceptable substitute products
3. Section 08 7100 Door Hardware:
   Keying system is to be Schlage Everest D – Restricted.
4. Section 08 9200 Louvered Equipment Screens:
   United Enertech is an approved substitute for the Louvered Equipment Screens.
5. Section 09 5126 Wood Ceiling Panels (not provided):
   Armstrong World Industries, Inc. 5" wide Linear Solid Wood Panels is the basis of design for the decorative wall/ceiling panels as identified as ceiling type F on sheet A201. Norton Industries, Inc. 5" wide Solid Wood Linear Ceilings and Walls is an acceptable substitute.
6. Section 11 6624 Ballet Barres:
   Replace Ballet Barres, Inc. model 501 wall bracket with Ballet Barres, Inc. model 601 single floor stanchion as the basis of design .

Revisions to Drawings

1. The attached Revision 1 to the Cover Sheet A001 dated May 4, 2017 replaces sheet A001 in the bid documents. The revision includes the portion of the Project Information and Applicable Codes that failed to print properly in the original PDF file.
2. The attached Revision 1 to the Reflected Ceiling Plan sheet A201 replaces sheet A201 in the bid documents and clarifies the locations for the linear lighting at the Exercise Room 105, Sewing Room 111, Multi-Purpose Room 125 and Card Playing Area 123.
3. The attached Revision 1 to the Finish Plan sheet A301 replaces sheet A301 in the bid documents and provides locations for the corner guards and window treatments. Corner guards are to be as specified in section 10 2600 of the Specifications Manual. Window treatment are to be MechoShades model Mecho/5 Roller Shade system by MechoSystems or equal with manual operation.
4. The attached Revision 1 to the Door and Window Schedules sheet A801 replaces sheet A801 in the bid documents and revises window types H3, H5, H6 and H7 to be single pane

glazing in an aluminum storefront system as graphically represented in the details. It also deletes the dimensions as shown in 1/A801 Door Types for the automatic sliding door type 5. The basis of design for the automatic sliding door is the Horton Automatics Profiler Series 1003 Type 110 single slide door with adjacent sidelite as specified. Dimensions are to be the supplier's standard sizes.

5. The attached Revision 1 Civil Engineering Drawings C0, C1.1, C3.1, C4.1, and C6.3 replace the similar sheets in the bid documents and provide responses to permit review comments received from the Macon Water Authority. The remaining civil engineering sheets in the bid documents are to remain.
6. The attached Revision 1 Electrical Engineering Drawings E001, E101, E201, E301, E401, E701 and E801 replace the similar sheets in the bid documents and provide additional coordination. Sheets E402 and E601 from the bid documents are to remain.
7. The attached Audio-Visual drawings EPS-L, EPS-1.1, EPS-1.2, EPS-2.1, EPS-3.1, EPS-3.2, PS-1.1, PS-1.2 and PS-1.3 are to be included in the bid documents.

Responses to Questions

1. Q: Are the toilet partitions plastic laminate or solid plastic? The drawings show solid plastic and the spec calls for plastic laminate.

   A: The toilet partitions are to be plastic laminate as specified.

2. Q: C-1 has a note "Decorative Metal Fence". LA03 details a "Wood Fence".

   A: Use wood fence details as provided on sheet LA03. Provide three hinges per gate and a padlock sliding latch. Hinges are to be Stanley-National Hardware 12 in. Extra-Heavy T-Hinge or equal. The sliding latch is to be Stanley-National Hardware Stainless Steel Sliding Bolt Door/Gate Latch or equal. Padlocks are to be Schlage Solid Steel Round Padlocks or equal. Latches and locks are to be attached on the inside face of the gates.

3. Q: Epoxy grout is mentioned throughout the ceramic and quarry tile areas. Want to be sure that is correct?

   A: This is correct.

4. Q: WT–2 is a Glass tile mosaic? I do not see a mentioning of a size.

   A: WT-2 is to be the same nominal 12"x24" wall tile as WT-1.

5. Q: B-3 is a bullnose base 3 x 12 and I want to be sure that is what they want on the walls that do not have wall tile.

   A: Use the 3x12 bullnose base at walls that do not have tile. Use the 3x12 squared top base at walls that are to be tiled.

6. Q: On detail 4/A710, what type of wood is to be used for the 2x2 horizontal trim at the fascias?

   A: Use pressure treated 2x2 lumber.

7. Q: There is no telephone or cable conduit to building for service.

A: Provide (2)-4" conduits from IT closet 118 routed north of the building up to Willie Smoke Glover Drive.

8. Q: There is no grounding detail for the service. We can install according to code, but you all usually have one shown.

   A: Provide a grounding triad with #4/0 AWG connected to the ground bar in Utility 132. Connect the ground bar in the IT closet 118 to the ground bar in utility 132 with #4/0 AWG.

9. Q: Panel schedule for “MDP” on sheet E801 shows circuit #13 feeding RTU-1 on a 200 amp breaker with #6 wire.

   A: RTU-1 should be fed with 4#3/0 AWG, 1#6G, 2"C.

10. Q: Panel schedule for “MDP” on sheet E801 shows circuit #25 feeding TU units on a 100 amp breaker with #10 wire.

    A: TU-X powered from MDP-25 should be fed with 3#1 AWG, 1#6G, 1-1/2"C. TU-X powered from MDP-19 should be fed with 3#3 AWG, 1#8G, 1-1/4”C.

11. Q: Panel RP drawing E701 indicates to feed Panel RP from a 250 amp breaker out of MDP

    A: The breaker in MDP that feeds panel RP should be 250A.

12. Q: Are we to include the decorative fence at the back of the building? If so, there are no specs.

    A: Details for the fence are on Landscape Architecture sheet LA03.

13. Q: Since the Eldorado stacked stone is only 1.5” wide, should the CMU be 6” to support the cast stone and brick?

    A: Replace the 4” concrete block as shown with 6” concrete block behind the synthetic stone veneer wainscots and column bases.

SECTION 03 4900

GFRC COLUMN CAPITALS

PART 1 - GENERAL

1.1 SUMMARY

A. Work of this section includes glass fiber reinforced concrete (GFRC) components.

B. Related work specified elsewhere:
1. Metal Support Systems
2. Sealants and Caulk
3. Painting

1.2 INTENT

A. This specification is intended to generally outline the GFRC requirements, as they pertain to the overall project design. In all cases, the manufacturer's printed specifications shall govern the work of this section.

1.3 SUBMITTALS

A. Submit shop drawings for approval showing plans, sections, details, joint treatment, reinforcing, fastening devices and the relation of the GFRC components to the surrounding construction.

1.4 DELIVERY, STORAGE, HANDLING AND PROTECTION

A. Transport and handle units in a manner that avoids excessive stresses or damage.

B. Components displaying obvious damage must be rejected at site at time of delivery.

C. Store the components in a controlled environment, weather protected, on level surfaces, with temporary supports as required. Do not stack or lean.

PART 2 - PRODUCTS

2.1 MANUFACTURER

A. Acceptable manufacturers:
1. Basis of design: Melton Classics, Inc.
2. Advanced Architectural Stone.
3. Stromberg GFRC.

2.2 MATERIALS

A. Components shall be prefabricated with Portland Cement, free of resin and asbestos, reinforced with chopped strand fiber.

B. Components shall be reinforced with galvanized steel.

C. Fabrication shall be in accord with approved shop drawings. If multiple components are required to complete design criteria as per drawings, additional site work under related section, installation or finishing may be required.

D. Components shall be ready to receive primer and paint as specified under Painting and Coating section.

2.3 TOLERANCES (FABRICATION)

A. Tolerances:
1. Dimensional – all directions +/- 1/8"
2. Thickness – skin +/- 1/16"
3. Thickness – total unit 1/4" – 3/8"
4. Warpage or Bowing +/- 1/16"/foot
5. Out of Plane – unit to unit +/- 1/8"

B. Site conditions and normal manufacturing variations may require additional site work to maintain these tolerances.

2.4 PHYSICAL PROPERTIES

A. Properties:
1. Shell Thickness: (+-) 3/8"
2. Weight (depending on reinforcement): 2-1/2 – 4 lbs/sq. ft.
3. Density: 130 – 140 lbs/cu. ft.
4. Compressive Strength (ASTM C-109-92 Mod.): 9,810 p.s.i.
5. Flexural Strength (ASTM C-947-89 Mod.): 2,060 p.s.i.
6. Modulus of Elasticity – in Flexure (ASTM D638-94b Mod.): 2.28 x 106 p.s.i.
7. Tensil Strength (ASTM D-638-94b Mod.): 940 p.s.i.
8. Impact Strength (ASTM D-256-93a; Method A): 1.30 ft-lbs/in of notch
9. Coefficient of Linear Thermal Expansions (ASTM D-696-91): 0.60 x 10-5/°F
10. Humidified Deflection (ASTM C-473-95): No Measurable Value
11. Thermal Conductivity (ASTMC-177-85 (1993)): 4.35 Btu-in/hr-sq.ft-°F
12. Fuel Contribution (ASTM E-136-98a): 0
13. Flame Spread (ASTM E-84-98): 0, Class A
14. Smoke Index (ASTM E-84-98): 0, Class A
15. Resistance to Weathering (ASTM G-23-93): Class 5
16. Negligible Color Alteration
17. Screw Withdrawal (standard lab procedure): 346 lbs
18. Fiber Content: 5%-6% by weight

2.5 INSPECTION

A. Architect or his representative shall have access to the manufacturing facilities, either prior to contract award or thereafter, to inspect or verify compliance with the above specifications.

PART 3 - EXECUTION

3.1 PRE-INSTALLATION RESPONSIBILITY

A. Field Measurement: Prior to manufacturing, obtain field dimensions for inclusion on the manufacturers shop drawings.

B. Coordination: Coordinate installation with work of related sections, within the tolerances specified in the respective articles.

C. Discrepancies: Prior to installation, check job site dimensions and conditions. Discrepancies between design and field dimensions shall be corrected.

3.2 INSTALLATION

A. Components shall be lifted with suitable devices.

B. Components shall be installed plum and true. Shim where necessary.

C. Fasten components using stainless steel screws only through face or back as indicated on shop drawings.

D. Where components are suspended, use as a minimum 12 gauge galvanized steel wire and the suspension points indicated on the shop drawings.

E. Framing, hangers, etc, as specified for Gypsum Board Construction.

F. Butt Joints shall be caulked, as specified for Joint Sealants section.

3.4 PATCHING AND CONTROL JOINTS

A. Introduce control joints as required and as specified under related sections of the Specifications.

B. Patch countersunk fasteners and damage to match component texture using suitable materials furnished by GFRC manufacturer.

3.5 FINISHING

A. Paint in accord with Painting and Coating Section for exterior concrete. Use only high grade exterior primer and paint.

End of Section

MACON-BIBB COUNTY

SENIOR CENTER

WILLIE SMOKIE GLOVER DRIVE, MACON, GEORGIA 31201

RELEASED FOR CONSTRUCTION

STATE OF GEORGIA
THOMAS W. SAYRE
CERTIFICATE NO. 025077
REGISTERED ARCHITECT

No.	DESCRIPTION	DATE
1	Revision 1	5-15-17

PROJECT DIRECTORY

OWNER
MACON-BIBB COUNTY RECREATION DEPARTMENT
150 WILLIE SMOKIE GLOVER DRIVE
MACON, GA 31201
TEL: 478-751-9280

REGINALD MOORE- DIRECTOR

ARCHITECT
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1700 COMMERCE DRIVE, NW
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TEL: 404-605-0690

THOMAS SAYRE, AIA - PRINCIPAL-IN-CHARGE
BRUCE MORRIS, AIA - PROJECT MANAGER

CIVIL ENGINEER
CARTER & SLOOPE, INC.
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MACON, GA 31210
TEL: 478-477-3923

DON CARTER, PE- PRESIDENT

STRUCTURAL ENGINEERING
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HOLLY JEFFRIES, PE- SR. PROJECT MANAGER

MEP/FP ENGINEERING
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TIM TROTTER, PE- MECHANICAL ENGINEERING

LANDSCAPE ARCHITECTURE
TRAVIS PRUITT & ASSOCIATES, INC.
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MACK CAIN- DIRECTOR OF L.A.

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DECATUR, GA 30030
TEL: 404-373-9075

PHIL BALDWIN- VICE PRESIDENT

DOOR HARDWARE
PHILLIPS-LANGLEY & ASSOCIATES
3585 LAWRENCEVILLE-SUWANEE ROAD
SUITE 401A
SUWANEE, GA 30024
TEL: 770-614-0630

MARK PHILLIPS- PRESIDENT

PROJECT INFORMATION

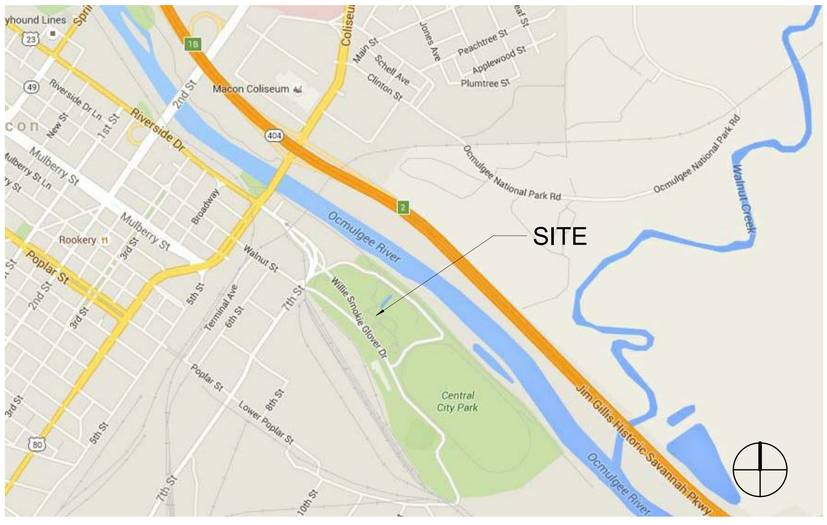
PROJECT NAME:	MACON-BIBB COUNTY SENIOR CENTER	
OWNER:	MACON-BIBB COUNTY RECREATION DEPARTMENT	
LOCATION:	WILLIE SMOKIE GLOVER DRIVE MACON, GA 30201	
PROJECT #:	16020MACSEN	
PERMITTING AGENCY:	MACON-BIBB COUNTY BUSINESS & DEVELOPMENT SERVICES 682 CHERRY STREET- SUITE 500 MACON, GA 30201	
CONSTRUCTION TYPE:	TYPE II-B, PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM	
OCCUPANCY GROUP:	NFPA 101:	NEW ASSEMBLY OCCUPANCY (PER CHAPTER 12)
	IBC:	ASSEMBLY- GROUP A-3 (PER SECTION 304)
AREA:	AREA:	10,380 GSF

APPLICABLE CODES

ALL WORK SHALL CONFORM TO ALL APPLICABLE CODES, STANDARDS, AND GOVERNING AUTHORITIES AS RELATED TO THIS PROJECT INCLUDING BUT NOT LIMITED TO:

BUILDING	INTERNATIONAL BUILDING CODE (IBC), 2012 EDITION W/ STATE OF GEORGIA 2014 AMENDMENTS
LIFE SAFETY	NFPA 101, LIFE SAFTE CODE, 2012 ED. RULES AND REGULATIONS OF THE GEORGIA SAFETY FIRE COMMISIONER, CHAPTER 120-3-3
FIRE PREVENTION CODE,	STANDARD FIRE PREVENTION CODE (INTERNATIONAL FIRE 2012 EDITION W/ STATE OF GEORGIA 2014 AMENDMENTS
MECHANICAL	STANDARD MECHANICAL CODE (INTERNATIONAL MECHANICAL CODE), 2012 EDITION W/ STATE OF GEORGIA 2014 AMENDMENTS
PLUMBING CODE,	STANDARD PLUMBING CODE (INTERNATIONAL PLUMBING 2012 EDITION W/ STATE OF GEORGIA 2014 AMENDMENTS
ELECTRICAL	NFPA NATIONAL ELECTRICAL CODE, 2014 EDITION
GAS	STANDARD GAS CODE (INTERNATIONAL FUEL GAS CODE), 2012 EDITION W/ STATE OF GEORGIA 2014 AMENDMENTS
ENERGY	INTERNATIONAL ENERGY CONSERVATION CODE, 2009 ED. W/ STATE OF GEORGIA 2011 AND 2012 SUPPLEMENTS AND AMENDMENTS
HANDICAP	STATE OF GEORGIA ACCESSIBILITY CODE, ACCESSIBILITY CHAPTER 120-3-20ss-.016 (.01-.08) 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

VICINITY MAP NOT TO SCALE



DRAWING SHEET INDEX

SHEET NUMBER	SHEET NAME	ISSUE DATE
ARCHITECTURAL		
A002	ABBREVS, SYMBOLS & PARTITION TYPES	04/19/17
A003	LIFE SAFETY PLAN	04/19/17
A101	FLOOR PLAN	04/19/17
A102	ROOF PLAN	04/19/17
A201	REFLECTED CEILING PLAN	04/19/17
A301	FINISH PLAN	04/19/17
A302	FURNITURE REFERENCE PLAN	04/19/17
A401	EXTERIOR ELEVATIONS	04/19/17
A402	EXTERIOR ELEVATIONS	04/19/17
A501	INTERIOR ELEVATIONS	04/19/17
A502	ENLARGED PLAN AT KITCHEN AND MULTI PURPOSE ROOM	04/19/17
A503	ENLARGED PLANS	04/19/17
A601	MILLWORK DETAILS	04/19/17
A602	MILLWORK DETAILS	04/19/17
A701	WALL SECTIONS	04/19/17
A702	WALL SECTIONS	04/19/17
A703	WALL SECTIONS	04/19/17
A704	WALL SECTIONS	04/19/17
A705	WALL SECTIONS	04/19/17
A001	COVER SHEET	04/19/17
A706	WALL SECTIONS	04/19/17
A707	WALL SECTIONS	04/19/17
A708	WALL SECTIONS	04/19/17
A709	DETAILS	04/19/17
A710	DETAILS	04/19/17
A711	DETAILS	04/19/17
A712	DETAILS	04/19/17
A713	DUMPSTER ENCLOSURE DETAILS	04/19/17
A801	DOOR & WINDOW SCHEDULES	04/19/17
A802	DOOR AND WINDOW DETAILS	04/19/17
CIVIL		
-	COVER SHEET	04/19/17
C1.1	SITE DEMOLITION PLAN	04/19/17
C2.1	SITE LAYOUT AND PAVING PLAN	04/19/17
C3.1	SITE GRADING AND DRAINAGE PLAN	04/19/17
C4.1	SITE WATER AND SANITARY SEWER PLAN	04/19/17
C5.1	INITIAL STORMWATER POLLUTION PREVENTION PLAN	04/19/17
C5.2	INTERMEDIATE STORMWATER POLLUTION PREVENTION PLAN	04/19/17
C5.3	FINAL STORMWATER POLLUTION PREVENTION PLAN	04/19/17
C5.4	NPDES COMPREHENSIVE MONITORING PROGRAM NOTES	04/19/17
C5.5	STORMWATER POLLUTION PREVENTION NOTES	04/19/17
C5.6	STORMWATER POLLUTION PREVENTION DETAILS	04/19/17
C6.1	MISCELLANEOUS SITE DETAILS	04/19/17
C6.2	MISCELLANEOUS SITE DETAILS	04/19/17
C6.3	SITE WATER AND SANITARY SEWER DETAILS	04/19/17
STRUCTURAL		
S001	GENERAL NOTES	04/19/17
S101	FOUNDATION PLAN	04/19/17
S102	ROOF FRAMING PLAN	04/19/17
S103	TRUSS PROFILES	04/19/17
S301	FOUNDATION DETAILS	04/19/17
S302	FOUNDATION DETAILS	04/19/17
S501	STEEL FRAMING DETAILS	04/19/17
S502	STEEL FRAMING DETAILS	04/19/17
S503	BRACED FRAMES	04/19/17

SHEET NUMBER	SHEET NAME	ISSUE DATE
ELECTRICAL		
E001	LEGEND AND SCHEDULE - ELECTRICAL	04/19/17
E101	SITE PLAN - ELECTRICAL	04/19/17
E201	FLOOR PLAN - LIGHTING	04/19/17
E301	FLOOR PLAN - POWER	04/19/17
E401	FLOOR PLAN - SYSTEMS/HVAC POWER	04/19/17
E402	ROOF PLAN- SYSTEMS/HVAC POWER	04/19/17
E601	DETAILS - ELECTRICAL	04/19/17
E701	RISERS - ELECTRICAL	04/19/17
E801	PANELBOARD SCHEDULES - ELECTRICAL	04/19/17
MECHANICAL		
M001	ABBREV., LEGENDS & SCHEDULES - HVAC	04/19/17
M002	SCHEDULES	04/19/17
M201	FLOOR PLAN - HVAC	04/19/17
M202	ROOF PLAN- HVAC	05/16/17
M501	DETAILS- HVAC	04/19/17
PLUMBING		
P001	LEGEND, SCHEDULES, NOTES & DETAILS - PLUMBING	04/19/17
P201	FLOOR PLAN - PLUMBING	04/19/17
P301	LARGE SCALE PLANS - PLUMBING	04/19/17
P501	DETAILS - PLUMBING	04/19/17
FIRE PROTECTION		
FP001	LEGEND, SCHEDULE, NOTES & DETAILS - FIRE PROTECTION	04/19/17
FP201	FLOOR PLAN - FIRE PROTECTION	04/19/17
LANDSCAPE		
LA01	PLANTING PLAN	04/19/17
LA02	PLANTING DETAILS	04/19/17
LA03	SITE DETAILS	04/19/17

MACON-BIBB COUNTY
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MACON, GEORGIA 31201

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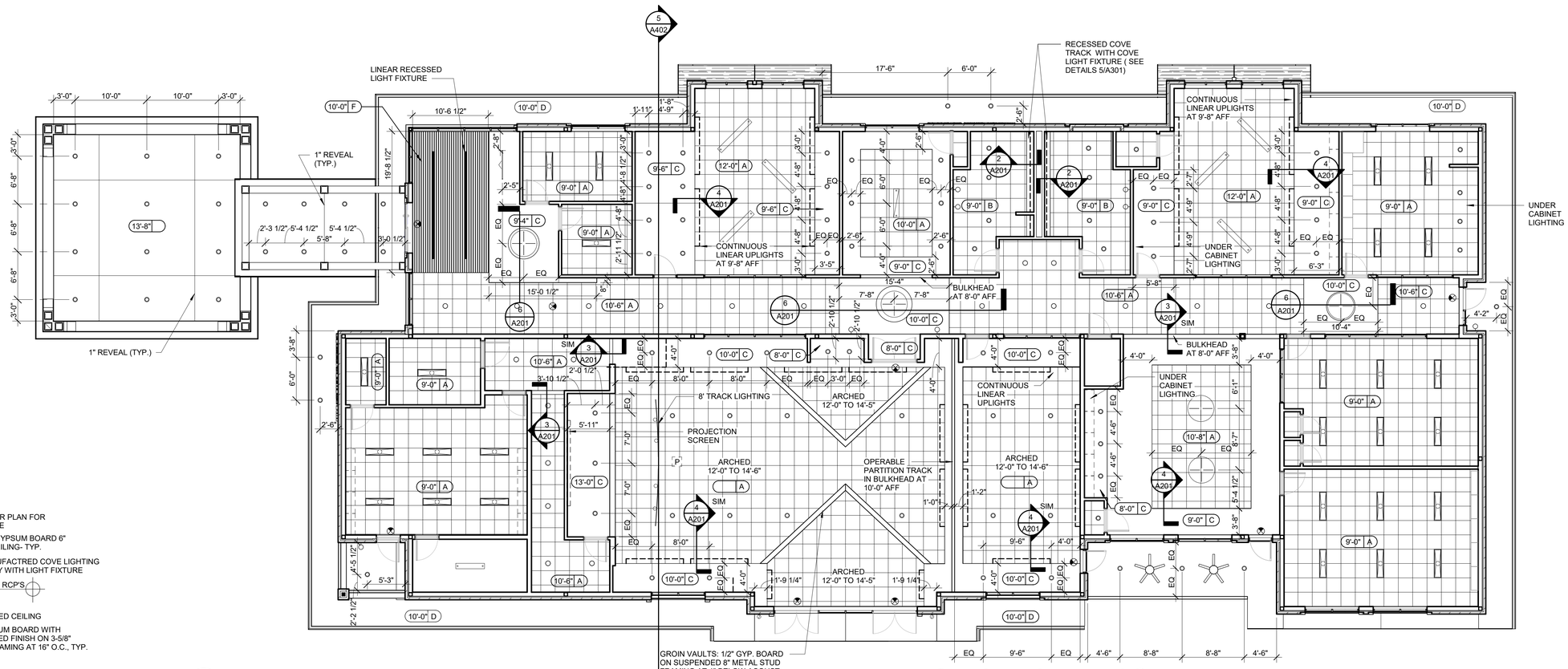
COVER SHEET

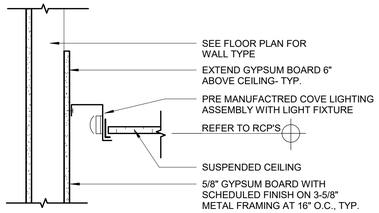
PROJECT #	16020MACSEN
DATE	4/19/17
DRAWN BY	MBS
CHECKED BY	BEM

A001

SCALE 12" = 1'-0"

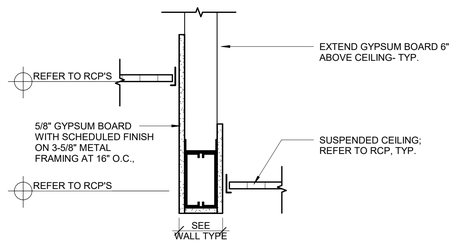
NOT FOR CONSTRUCTION



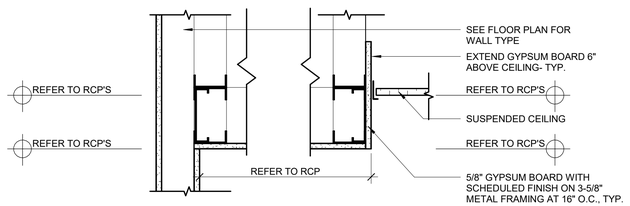


2 / A201 DETAIL - LIGHTING COVE
1 1/2" = 1'-0"

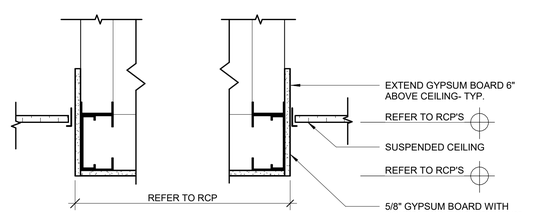
1 / A201 REFLECTED CEILING PLAN
1/8" = 1'-0"



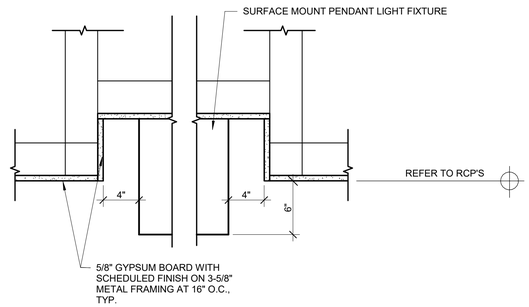
3 / A201 DETAIL - BULK HEAD
1 1/2" = 1'-0"



4 / A201 DETAIL - BULKHEAD
1 1/2" = 1'-0"



5 / A201 DETAIL - BULKHEAD 2
1 1/2" = 1'-0"



6 / A201 DETAIL - SURFACE FIXTURE
1 1/2" = 1'-0"

CEILING TYPES

- A 24" X 24" ACOUSTIC CEILING TILE ARMSTRONG CORTEGA 704 WITH TEGULAR EDGE WITH 15/16" GRID
- B 24" X 24" ACOUSTIC CEILING TILE FOR KITCHENS AND DAMP AREAS USG RADAR CLIMAPLUS SQ EDGE WITH 15/16" GRID
- C 1/2" GYPSUM BOARD; SCHEDULED PAINT
- D VENTED COMPOSITE BOARD SOFFIT
- E OPEN TO STRUCTURE; UNFINISHED UNLESS NOTED OTHERWISE
- F 5" x 96" AMSTRONG WOODWORKS LINEAR CEILING SYSTEM
- G MASONRY STUCCO SOFFIT

CEILING LEGEND

- 1'-0" A — CEILING HEIGHT ABOVE FINISH
- CEILING TYPE
- C.J. — CEILING CONTROL JOINT
- RECESSED LIGHT FIXTURE
- WALL SCONCE
- 2X4 RETURN REGISTER
- 2X2 SUPPLY DIFFUSER
- DECORATIVE PENDENT LIGHT FIXTURE
- 48" LINEAR LIGHT FIXTURE
- 1x4 LED TROFFER LIGHT FIXTURE
- BILLIARDS PENDANT LIGHT FIXTURE
- 4' LINEAR PENDANT FIXTURE
- EXIT SIGNAGE; REFER TO ELECTRICAL; BLACK QUADRANT REFERES TO DIRECTION OF ILLUMINATIED SIGN
- P — PROJECTOR; COORDINATE WITH A/V
- 8' TRACK LIGHTING WITH TWO SPOT LIGHTS
- 48" LINEAR WALL WASHER LIGHT FIXTURE
- UNDER CABINET LIGHT FIXTURE
- LED LINEAR COVE LIGHT FIXTURE
- CELING FAN WITH LIGHT FIXTURE

CEILING GENERAL NOTES

1. CENTER FIRE SPRINKLER HEADS ON TILE (TYP.). COORDINATE ENTIRE FIRE SPRINKLER LAYOUT WITH ARCHITECT
2. CONTRACTOR TO SCHEDULE CEILING CAVITY COORDINATION MEETING WITH ALL SUBCONTRACTORS AND ARCHITECT PRIOR TO INSTALLING ANY COMPONENTS.
3. CENTER LIGHT FIXTURES WITHIN CEILING TILES AND GYPSUM BOARD SOFFITS IN BOTH DIRECTIONS, UNLESS NOTED OTHERWISE.
4. MECHANICAL CEILING MOUNTED EQUIPMENT (DIFFUSERS, RETURN GRILLES, ETC.) TO BE CENTERED IN CEILING AREAS WHEREVER POSSIBLE.
5. REFER TO ELECTRICAL FOR AUDIO/VISUAL ROUGH-IN TO BE INSTALLED BY G.C.
6. PROVIDE AND INSTALL ACCESS PANELS IN GYPSUM BOARD CEILINGS TO AS NEEDED TO ACCESS ABOVE CEILING EQUIPMENT. G.C. TO REVIEW LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. ACCESS PANELS SHALL BE PROTECTED AS APPROPRIATE FOR THE FIRE RESISTANCE RATING OF THE BARRIER.
7. VERIFY NEW CEILING HEIGHTS TO ALLOW FOR ADEQUATE SPACE TO ACCOMMODATE STRUCTURAL MEMBERS, MECHANICAL DUCTWORK, ELECTRICAL FIXTURES, ETC. PRIOR TO INSTALLATION OF NEW CEILINGS. NOTIFY ARCHITECT IMMEDIATELY IF FIELD CONDITIONS DIFFER FROM DRAWINGS. DO NOT PROCEED UNTIL RECEIVING CLARIFICATION FROM ARCHITECT.
8. EXTERIOR FIXTURES AND INSTALLATION SHALL BE WATERTIGHT.
9. EMERGENCY LIGHT FIXTURES SHALL BE PROVIDED AS REQUIRED BY CODE.
10. PROVIDE ACCESS DOORS AT ALL LOCATIONS INDICATED OR REQUIRED FOR ACCESS TO EQUIPMENT, VALVES, JUNCTION BOXES, ETC.
11. PROVIDE CORNER BEADS, J BEADS AND OTHER GYPSUM BOARD ACCESSORIES AT ALL EXPOSED CORNERS, UNLESS NOTED OTHERWISE.
12. REFER TO ELECTRICAL FOR LIGHT FIXTURE TYPES.
13. ALL CEILINGS TO BE TYPE A AT 9'-0" UNLESS NOTED OTHERWISE.

RELEASED FOR CONSTRUCTION

STATE OF GEORGIA — THOMAS W. SAYRE — CERTIFICATE NO. 32067 — REGISTERED ARCHITECT

No.	DESCRIPTION	DATE
1	Revision 1	5-15-17

MACON-BIBB COUNTY
SENIOR CENTER

WILLIE SMOKIE GLOVER DRIVE
MACON, GEORGIA 31201

sizemoregroup
1700 COMMERCE DRIVE, NW
ATLANTA, GEORGIA 30318
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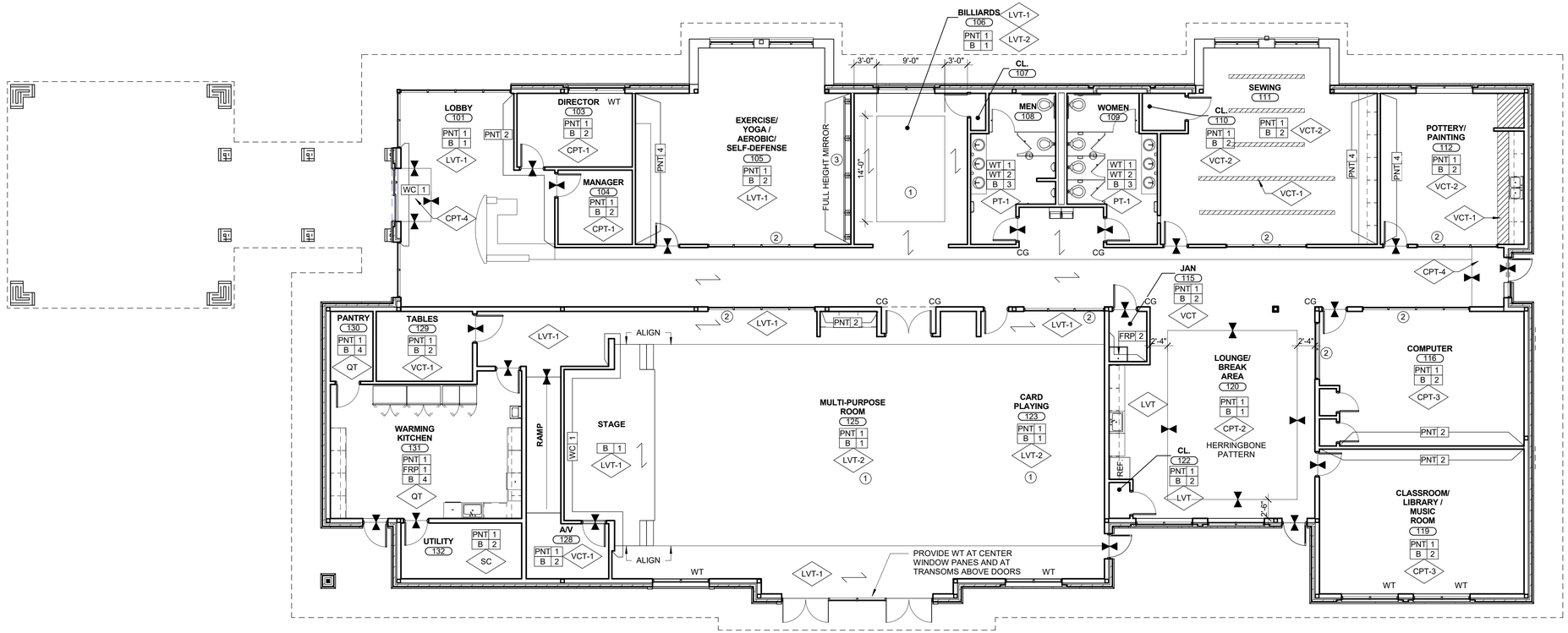
REFLECTED CEILING PLAN

PROJECT #	16020MACSEN
DATE	4/19/17
DRAWN BY	MBS
CHECKED BY	BEM

A201

SCALE As indicated

NOT FOR CONSTRUCTION



1 A301 FINISH PLAN
1/8" = 1'-0"

FINISH SCHEDULE

SYMBOL	DESCRIPTION	STYLE / COLOR	REMARKS
#	PLAN NOTE		
	INDICATES CHANGE IN FLOORING MATERIAL		
	LVT PATTERN DIRECTION		
FLOOR			
CPT-1	MOHAWK GROUP CARPET TILE	STYLE: LATERAL SURFACE TILE COLOR: SHALE	ASHLAR
CPT-2	MOHAWK GROUP CARPET TILE	STYLE: METALMORPHIC COLOR: CLASSIC RIDGE METALLIC	ASHLAR
CPT-3	MOHAWK GROUP CARPET TILE	STYLE: DRIFTED GROUND COLOR: CLASSIC RIDGE	ASHLAR
LVT-1	MOHAWK LUXURY VINYL TILE	STYLE: SECOYA COLOR: 9X59 CONVERSE BASIN	
LVT-2	MOHAWK LUXURY VINYL TILE	STYLE: SECOYA COLOR: 9X59 KEW GARDENS	
QT	DALTILE QUARRY TILE	STYLE: 6X6 COLOR: ARID GRAY	GROUT: MAPEI, EPOXY COLOR: TBD
PT-1	DALTILE 12X24 PORCELAIN TILE	STYLE: LINDEN POINT COLOR: BEIGE	GROUT: MAPEI, EPOXY COLOR: SAHARA BEIGE 11

SYMBOL	DESCRIPTION	STYLE / COLOR	REMARKS
VCT-1	MANNINGTON VINYL COMP. TILE	STYLE: PROGRESSIONS COLOR: WHEAT	
VCT-2	MANNINGTON VINYL COMP. TILE	STYLE: PROGRESSIONS COLOR: BED ROCK	
BASE			
B 1	6" STAINED WOOD BASE REFER TO 5/A602	COLOR: TBD	
B 2	ROPPE CONT. RUBBER COVE	STYLE: CONT. COVE BASE COLOR: LUNAR DUST 114	
B 3	DALTILE PORCELAIN BULLNOSE	STYLE: LINDEN POINT COLOR: BEIGE	
B 4	DALTILE QUARRY COVE BASE	COLOR: ARID GRAY	
WALL PAINT			
PNT 1	SHERWIN WILLIAMS	COLOR: NATURAL CHOICE SW7011	FIELD
PNT 2	SHERWIN WILLIAMS	COLOR: CLARY SAGE SW6178	ACCENT
PNT 3	SHERWIN WILLIAMS	COLOR: CEILING BRIGHT WHITE	CEILING
PNT 4	SHERWIN WILLIAMS	COLOR: LAKESHORE SW6494	ACCENT
WALL TILE			
WT 1	DALTILE 12X24 PORCELAIN TILE	STYLE: LINDEN POINT COLOR: BEIGE	GROUT: MAPEI, EPOXY COLOR: SAHARA BEIGE
WT 2	DALTILE GLASS TILE MOSAIC	STYLE: COLOR WAVE COLOR: SOFT CASHMERE CW22	

SYMBOL	DESCRIPTION	STYLE / COLOR	REMARKS
WALL COVERING			
WC 1	EYKON WOOD WALLCOVERING		
SOLID SURFACE			
SS 1	CORIAN	STYLE: WOODS TOO LIT COLOR: SYCAMORE SWS-55	
SS 2	WILSONART	COLOR: PARIS FOG	
SS 3	WILSONART	COLOR: FLINT ROCK	
SS 4	WILSONART	COLOR: DESIGNER WHITE	
HIGH PRESSURE PLASTIC LAMINATE			
PL 1	FORMICA	COLOR: COGNAC MAPLE	
PL 2	LAMINART	COLOR: BEIGE EDGEWAVE TEXTURED FINISH 5050-T	
PL 3	WILSONART	COLOR: BURNISHED CHESTNUT	
FIBER REINFORCED PANELS			
FRP 1	MARLITE	COLOR: C100-G 63 WHITE	
FRP 2	MARLITE	COLOR: P100 WHITE	

GENERAL FINISH PLAN NOTES:

1. ALL HOLLOW METAL DOOR FRAMES TO BE PAINTED TO MATCH WALL, GLOSS FINISH, U.N.O.
2. ALL GYP. BOARD CEILINGS TO BE PAINTED PNT-3, FLAT FINISH, U.N.O.
3. GYP. BOARD & BLOCK WALLS TO BE PAINTED SEMI-GLOSS FINISH, U.N.O. RESTROOMS & JANITOR'S CLOSET TO BE PAINTED WITH EPOXY PAINT.
4. EXTEND NOTED FLOORING MATERIAL INTO CLOSETS, U.N.O.
5. WHERE SEAMS IN FLOORING MATERIALS OCCUR AT DOORS, THEY SHALL BE PARALLEL WITH THE DOOR IN THE CLOSED POSITION AND CENTERED ON THE THICKNESS OF THE DOOR, U.N.O.
6. FURNISH AND INSTALL CONTINUOUS ROLL RUBBER BASE. WRAP BASE AT CASED OPENINGS AND STUB WALLS.
7. CARPET TO CARPET SEAMS AND/OR CARPET TO RESILIENT FLOORING TRANSITIONS AT DOORWAYS ARE TO OCCUR DIRECTLY UNDER CENTERLINE OF DOOR.
8. PROVIDE ADA COMPLIANT STAINLESS STEEL SCHLUTER TRANSITION TO BE INSTALLED WHERE CARPET MEETS RESILIENT FLOORING.
9. ALL CABINET DOORS AND DRAWERS TO HAVE LOCKS.
10. INSTALL STAINLESS STEEL SCHLUTER COVE PROFILE WHERE WALL TILE MEETS BASE AND FLOOR TILE IN RESTROOMS.
11. G.C. TO INSTALL 2" WOOD BLINDS (WHITE) AT ALL EXTERIOR WINDOWS.
12. G.C. TO INSTALL JOHNSONITE RUBBER NOSING AT STAGE AND STAIRS.

FINISH PLAN NOTES:

1. INSTALL LVT IN HERRINGBONE PATTERN, U.N.O.
2. G.C. TO INSTALL WINDOW FILM AT ALL INTERIOR WINDOWS; SOLYX, BEACH GRASS GRADIANT, FULL HEIGHT
3. G.C. TO INSTALL BALLET BARRE; CUSTOM BARRES, FRAPPE SINGLE, ASH WOOD BARRE, STAINED AND SEALED

RELEASED FOR CONSTRUCTION

STATE OF GEORGIA
THOMAS W. SAYRE
CERTIFICATE NO. 32067
REGISTERED ARCHITECT

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1	Revision 1	5-15-17

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FINISH PLAN

PROJECT # **16020MACSEN**
DATE **4/19/17**
DRAWN BY **AK**
CHECKED BY **AK**

A301

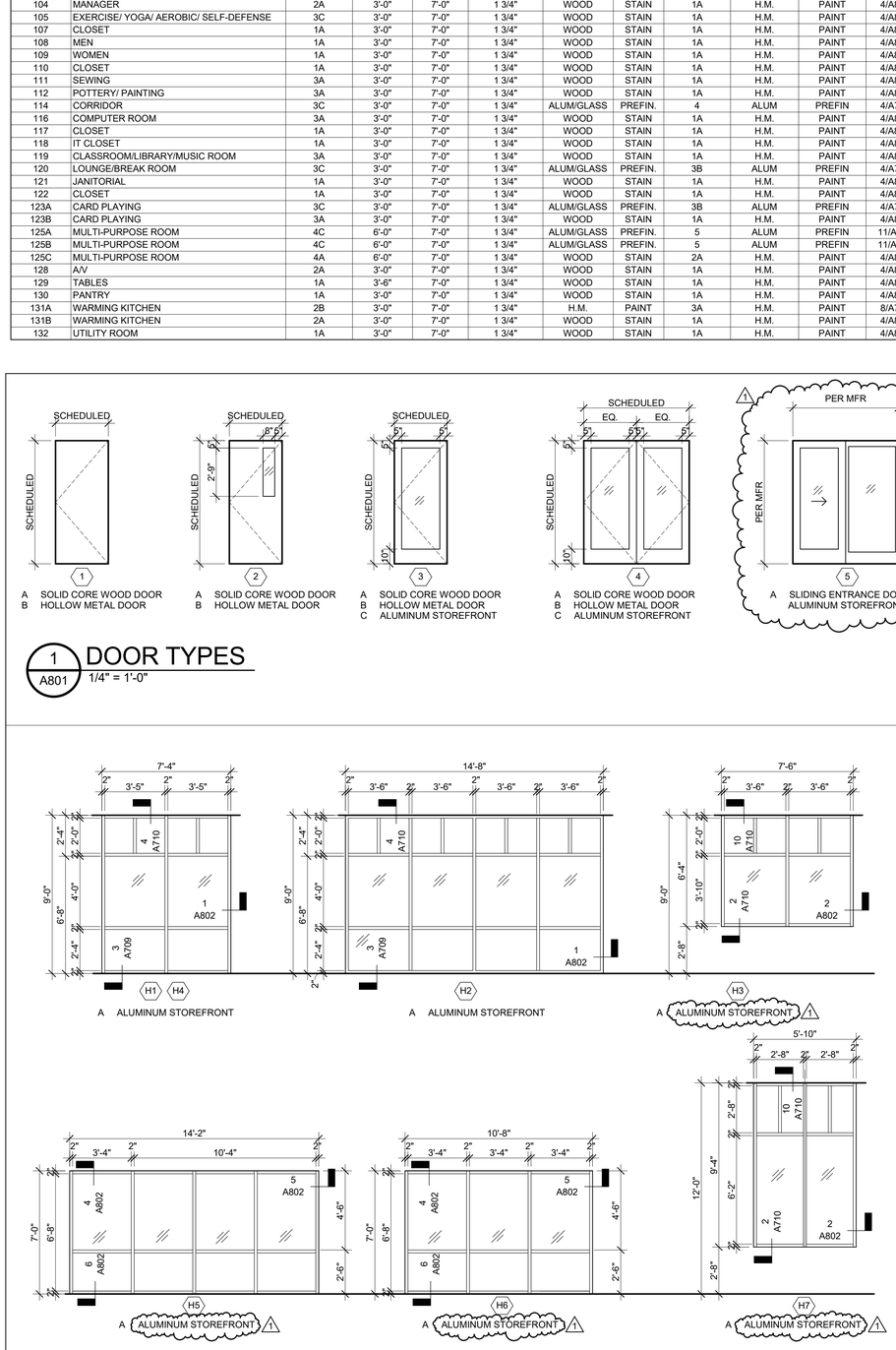
SCALE **As indicated**

NOT FOR CONSTRUCTION

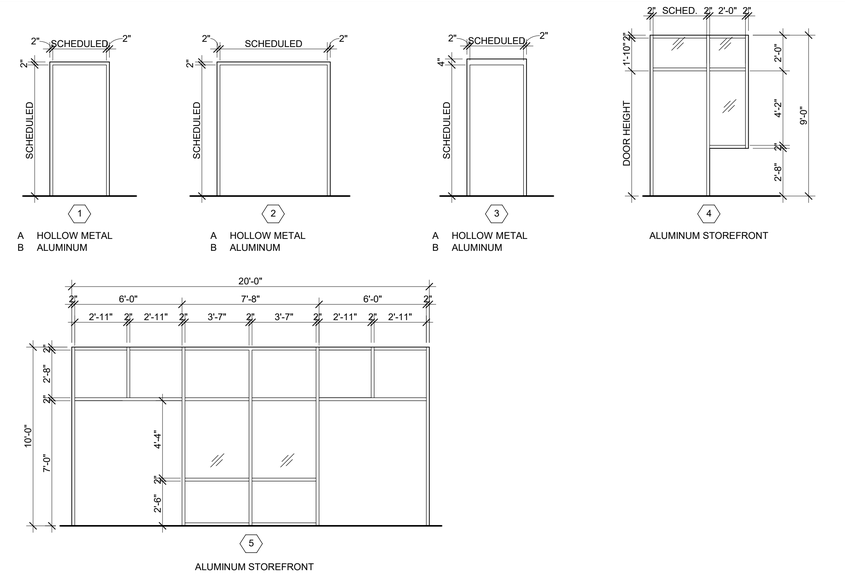
DOOR SCHEDULE

DOOR #	LOCATION	WT TYPE	WIDTH	HEIGHT	THICKNESS	FRAME MATERIAL	FRAME FINISH	FRAME TYPE	MATERIAL	FINISH	HEAD	JAMB	SILL	FIRE RATING	HARDWARE SET TYPE	HARDWARE PANIC	DOOR COMMENTS
101	LOBBY	5	6'-0"	7'-10"	4 1/2"	ALUM/GLASS	PREFIN.	3B	ALUM	PREFIN	4/A710	1/A802	9/A802		HEADING 1		
103	DIRECTOR	2A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	1A	H.M.	PAINT	4/A801	5/A801			HEADING 2		
104	MANAGER	2A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	1A	H.M.	PAINT	4/A801	5/A801			HEADING 2		
105	EXERCISE/ YOGA/ AEROBIC/ SELF-DEFENSE	3C	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	1A	H.M.	PAINT	4/A801	5/A801			HEADING 3		
107	CLOSET	1A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	1A	H.M.	PAINT	4/A801	5/A801			HEADING 3		
108	MEN	1A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	1A	H.M.	PAINT	4/A801	5/A801			HEADING 4		
109	WOMEN	1A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	1A	H.M.	PAINT	4/A801	5/A801			HEADING 4		
110	CLOSET	1A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	1A	H.M.	PAINT	4/A801	5/A801			HEADING 3		
111	SEWING	3A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	1A	H.M.	PAINT	4/A801	5/A801			HEADING 3		
112	POTTERY/ PAINTING	3A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	1A	H.M.	PAINT	4/A801	5/A801			HEADING 3		
114	CORRIDOR	3C	3'-0"	7'-0"	1 3/4"	ALUM/GLASS	PREFIN.	4	ALUM	PREFIN	4/A710	7/A802	10/A802		HEADING 5	Y	
116	COMPUTER ROOM	3A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	1A	H.M.	PAINT	4/A801	5/A801			HEADING 3		
117	CLOSET	1A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	1A	H.M.	PAINT	4/A801	5/A801			HEADING 3		
118	IT CLOSET	1A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	1A	H.M.	PAINT	4/A801	5/A801			HEADING 2		
119	CLASSROOM/LIBRARY/MUSIC ROOM	3A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	1A	H.M.	PAINT	4/A801	5/A801			HEADING 3		
120	LOUNGE/BREAK ROOM	3C	3'-0"	7'-0"	1 3/4"	ALUM/GLASS	PREFIN.	3B	ALUM	PREFIN	4/A710	7/A802	10/A802		HEADING 6	Y	
121	JANITORIAL	1A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	1A	H.M.	PAINT	4/A801	5/A801			HEADING 3		
122	CLOSET	1A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	1A	H.M.	PAINT	4/A801	5/A801			HEADING 3		
123A	CARD PLAYING	3C	3'-0"	7'-0"	1 3/4"	ALUM/GLASS	PREFIN.	3B	ALUM	PREFIN	4/A710	7/A802			HEADING 6	Y	
123B	CARD PLAYING	3A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	1A	H.M.	PAINT	4/A801	5/A801		20 MIN.	HEADING 3		
125A	MULTI-PURPOSE ROOM	4C	6'-0"	7'-0"	1 3/4"	ALUM/GLASS	PREFIN.	5	ALUM	PREFIN	11/A710	7/A802	10/A802		HEADING 7	Y	
125B	MULTI-PURPOSE ROOM	4C	6'-0"	7'-0"	1 3/4"	ALUM/GLASS	PREFIN.	5	ALUM	PREFIN	11/A710	7/A802	10/A802		HEADING 7	Y	
125C	MULTI-PURPOSE ROOM	4A	6'-0"	7'-0"	1 3/4"	WOOD	STAIN	2A	H.M.	PAINT	4/A801	5/A801		20 MIN.	HEADING 8	Y	
128	A/V	2A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	1A	H.M.	PAINT	4/A801	5/A801			HEADING 3		
129	TABLES	1A	3'-6"	7'-0"	1 3/4"	WOOD	STAIN	1A	H.M.	PAINT	4/A801	5/A801		20 MIN.	HEADING 3		
130	PANTRY	1A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	1A	H.M.	PAINT	4/A801	5/A801			HEADING 3		
131A	WARMING KITCHEN	2B	3'-0"	7'-0"	1 3/4"	H.M.	PAINT	3A	H.M.	PAINT	8/A711	8/A802			HEADING 9		
131B	WARMING KITCHEN	2A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	1A	H.M.	PAINT	4/A801	5/A801		20 MIN.	HEADING 3		
132	UTILITY ROOM	1A	3'-0"	7'-0"	1 3/4"	WOOD	STAIN	1A	H.M.	PAINT	4/A801	5/A801			HEADING 10		

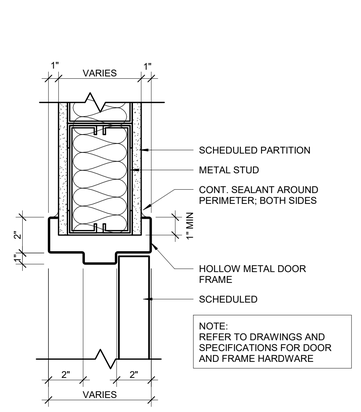
1 DOOR TYPES
A801 — 1/4" = 1'-0"



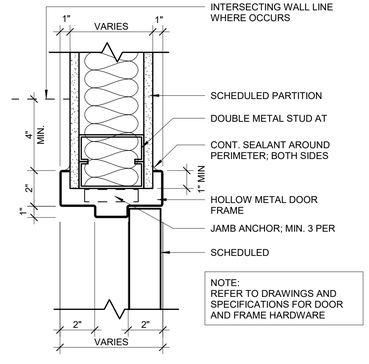
2 WINDOW SCHEDULE
A801 — 1/4" = 1'-0"



3 FRAME TYPES
A801 — 1/4" = 1'-0"



4 DETAIL - H.M. HEAD (INT.)
A801 — 3" = 1'-0"



5 DETAIL - H.M. JAMB (INT.)
A801 — 3" = 1'-0"

RELEASED FOR CONSTRUCTION

STATE OF GEORGIA
THOMAS W. SAYRE
CERTIFICATE NO. 020787
REGISTERED ARCHITECT

No.	DESCRIPTION	DATE
1	Revision 1	5-15-17

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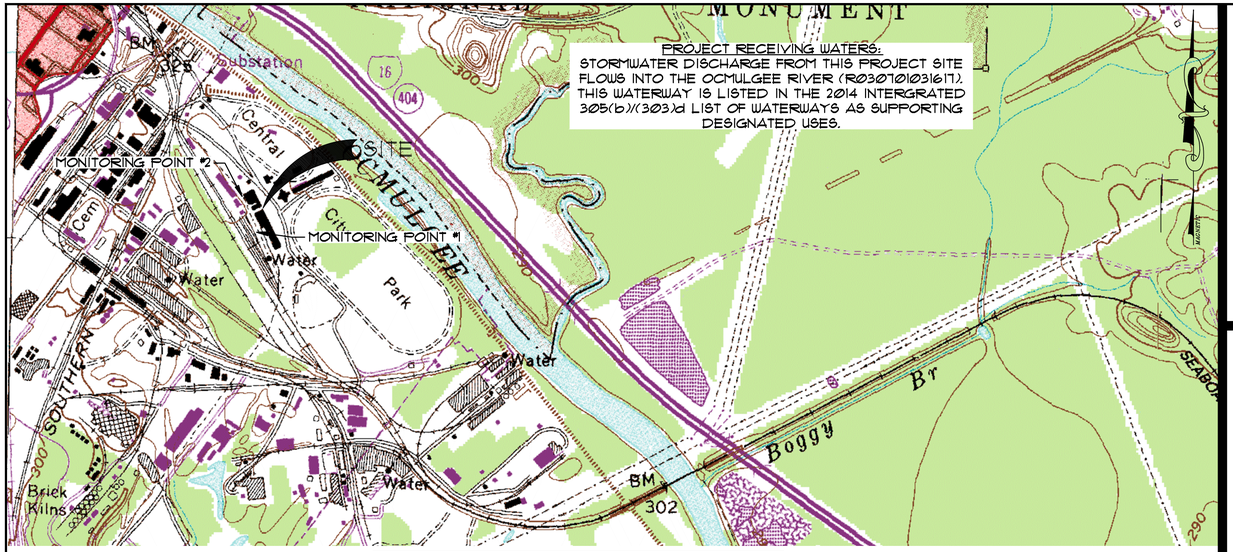
DOOR & WINDOW SCHEDULES

PROJECT #	16020MACSEN
DATE	4/19/17
DRAWN BY	MBS
CHECKED BY	BEM

A801

SCALE As indicated

NOT FOR CONSTRUCTION



PROJECT LOCATION SCALE: 1"=800'

PROJECT NARRATIVE

THIS PROJECT INCLUDES THE DEVELOPMENT OF A 1.90 ACRE SITE BOUNDED BY WILLIE SMOKIE GLOVER DRIVE AND DEVELOPED COMMERCIAL PARCELS. THE PROPOSED BUILDING IS A 10,415 SQUARE FOOT SENIOR COMMUNITY CENTER. WATER FOR DOMESTIC USE WILL BE EXTENDED TO THE SENIOR CENTER AT THE SOUTHWEST SIDE OF THE BUILDING. WATER FOR FIRE PROTECTION USE WILL BE EXTENDED IN ORDER TO PROVIDE A NEW FIRE HYDRANT AT THE SITE, AS WELL AS TO SERVE INTERNAL FIRE PROTECTION FOR THE PROPOSED BUILDING. WATER FOR FIRE PROTECTION USE WILL BE EXTENDED TO THE SENIOR CENTER AT THE SOUTHWEST SIDE OF THE BUILDING. AN EXISTING 4 INCH MAIN, WHICH CURRENTLY RUNS THROUGH THE PROPOSED BUILDING SITE, IS CURRENTLY SERVING THE EXISTING WAREHOUSE SOUTH OF THE SITE. A PORTION OF THIS 4 INCH MAIN WILL BE RELOCATED AROUND THE WEST SIDE OF THE PROPOSED BUILDING.

THE SENIOR CENTER BUILDING WILL HAVE MEN'S AND WOMEN'S RESTROOMS WITH TOILETS, HANDWASH SINKS, AND URINALS. THERE WILL BE TWO DRINKING FOUNTAINS IN THE HALLWAY THAT FRONTS THE RESTROOMS. THERE WILL ALSO BE A POTTERY/PAINTING ROOM THAT CONTAINS A TWO COMPARTMENT SINK, A LOUNGE THAT CONTAINS A ONE COMPARTMENT SINK, AND A JANITOR CLOSET WITH A JANITOR'S SINK. LASTLY, THERE WILL BE A WARMING KITCHEN THAT CONTAINS A DISHWASHER, A ONE COMPARTMENT SINK, AN OVEN, AN ICE MAKER, AND A HANDWASH SINK.

ONE SEWER LATERAL WILL BE EXTENDED TO THE NORTH SIDE OF THE BUILDING FOR SANITARY SEWER SERVICE. THIS NEW TAP WILL CONNECT TO AN EXISTING PRIVATE MANHOLE LOCATED IN AN EXISTING PARKING LOT EAST OF THE PROPOSED BUILDING, AND WILL CONNECT TO THE SAME OPENING THAT A DEMOLISHED 6 INCH CLAY LINE PREVIOUSLY OCCUPIED. ONE 6 INCH SERVICE WILL BE INSTALLED, WHICH WILL REDUCE TO A 4 INCH LINE PRIOR TO ENTERING THE PROPOSED BUILDING. 1

A WARMING KITCHEN IS BEING PROPOSED WITH A DISHWASHER, OVEN, ICE MAKER, A ONE COMPARTMENT SINK, AND A HANDWASH SINK. HOWEVER, THESE APPLIANCES ARE RESIDENTIAL GRADE AND ARE NOT MEANT FOR COMMERCIAL FOOD SERVICE.

PROJECT INFORMATION

PROJECT ACREAGE:	1.90 AC.
PROPERTY INFORMATION -	132 WILLIE SMOKIE GLOVER DR.
LAND LOT / LAND DISTRICT -	MACON, GA. 31201
ADDRESS	LAND LOT: OLD CITY
	LAND DISTRICT: MACON RESERVE WEST
BENCHMARK INFORMATION:	TBM 1
	60D NAIL IN UTILITY POLE
	ELEV.=289.15

BUILDING USE: SENIOR COMMUNITY CENTER

BUILDING AREA: 10,415 S.F.

NUMBER OF PLUMBING FIXTURES:

	BUILDING
TOILETS:	6
BATHTUBS/SHOWERS:	0
HANDWASH SINKS:	7
TWO COMPARTMENT SINKS:	1
ONE COMPARTMENT SINKS:	2
JANITOR'S SINK	1
DISHWASHERS:	1
REFRIGERATORS:	1
WASHING MACHINES:	0
URINALS:	2
ICE MAKER:	1
DRINKING FOUNTAIN:	2

NEW WATER/SERVICES/WATER SERVICE QUANTITIES:

8" WATER/FIRE MAIN:	169 L.F.
6" WATER/FIRE MAIN:	113 L.F.
4" WATER MAIN TO EXTERIOR FDC:	102 L.F.
4" WATER MAIN RELOCATION:	185 L.F.
2" WATER SERVICE:	184 L.F.
8" X 8" TEE WITH VALVE & BOX	1 EACH
2" SERVICE CONNECTION WITH METER	1 EACH
8" DBL. CHECK DETECTOR BFP:	1 EACH
2" RPZ BFP:	1 EACH
FIRE HYDRANT:	1 EACH
NEW FREE STANDING FDC:	1 EACH
NEW POST INDICATOR VALVE:	1 EACH

NEW SANITARY SERVICES

6" SANITARY LATERAL:	194 L.F.
4" SANITARY LATERAL:	5 L.F.
CLEANOUTS (EXTERIOR):	4 EACH
TOTAL SEWER TAPS:	1 EACH

GEORGIA 811 Utilities Protection Center, Inc.
Know what's below. Call before you dig.

CONSTRUCTION PLANS

MACON-BIBB COUNTY SENIOR CENTER

FOR

MACON-BIBB COUNTY RECREATION DEPARTMENT

RELEASED FOR CONSTRUCTION APRIL 19, 2017

REVISED MAY 15, 2017 PER MWA COMMENTS

NOTIFICATION CONTACTS:

OWNER/DEVELOPER/24 HOUR CONTACT
MR. REGGIE MOORE, DIRECTOR
MACON-BIBB COUNTY RECREATION DEPT.
150 WILLIE SMOKIE GLOVER DRIVE
MACON, GA. 31201
PHONE: (478) 751-9280
FAX: (478) 751-9290
EMAIL: rmoore@maconbibb.us

INDEX TO DRAWINGS

SHEET NO.	TITLE
-	COVER SHEET
C1.1	SITE DEMOLITION PLAN
C2.1	SITE LAYOUT AND PAVING PLAN
C3.1	SITE GRADING AND DRAINAGE PLAN
C4.1	SITE WATER AND SANITARY SEWER PLAN
C5.1	INITIAL STORMWATER POLLUTION PREVENTION PLAN
C5.2	INTERMEDIATE STORMWATER POLLUTION PREVENTION PLAN
C5.3	FINAL STORMWATER POLLUTION PREVENTION PLAN
C5.4	NPDES COMPREHENSIVE MONITORING PROGRAM NOTES
C5.5	STORMWATER POLLUTION PREVENTION NOTES
C5.6	STORMWATER POLLUTION PREVENTION DETAILS
C6.1	MISCELLANEOUS SITE DETAILS
C6.2	MISCELLANEOUS SITE DETAILS
C6.3	SITE WATER AND SANITARY SEWER DETAILS

Carter & Sloope
CONSULTING ENGINEERS
MACON ◇ MOULTRIE ◇ ATHENS ◇ CANTON
6310 PEAKE ROAD . MACON, GA 31210 . 478.477.3923 TEL . 478.477.4691 FAX

GEORGIA REGISTERED PROFESSIONAL ENGINEER JOHN L. CARTER
LEVEL II CERTIFIED DESIGN PROFESSIONAL # 2061

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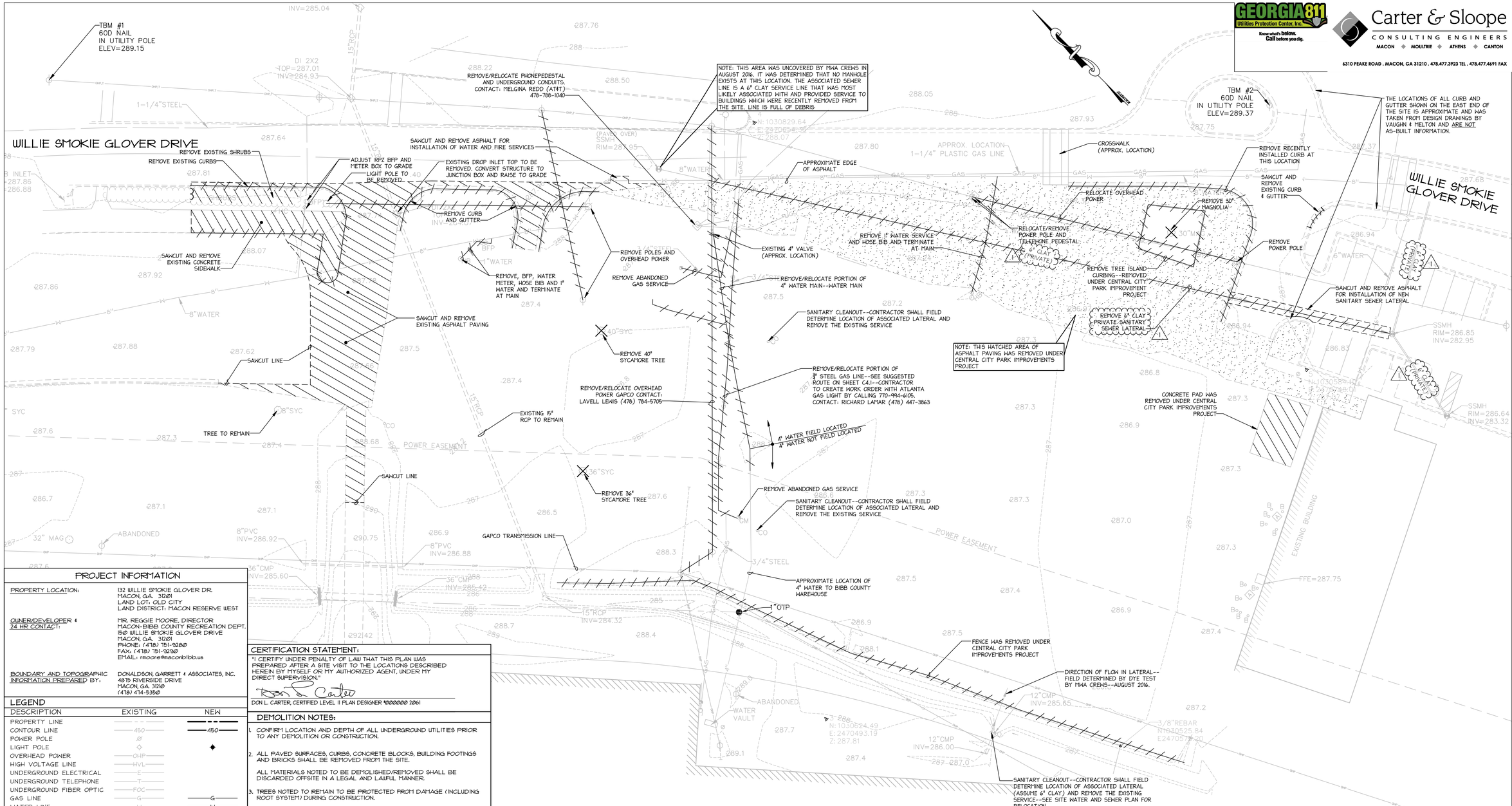

PROJECT INFORMATION

PROPERTY LOCATION:	132 WILLIE SMOKIE GLOVER DR. MACON, GA. 31201 LAND LOT: OLD CITY LAND DISTRICT: MACON RESERVE WEST
OWNER/DEVELOPER & 24 HR CONTACT:	MR. REGGIE MOORE, DIRECTOR MACON-BIBB COUNTY RECREATION DEPT. 1149 WILLIE SMOKIE GLOVER DRIVE MACON, GA. 31201 PHONE: (478) 751-9280 FAX: (478) 751-9290 EMAIL: rmoore@maconbibb.us
BOUNDARY AND TOPOGRAPHIC INFORMATION PREPARED BY:	DONALDSON, GARRETT & ASSOCIATES, INC. 4815 RIVERSIDE DRIVE MACON, GA. 31210 (478) 474-5350

LEGEND

DESCRIPTION	EXISTING	NEW
PROPERTY LINE		
CONTOUR LINE	450	450
POWER POLE		
LIGHT POLE		
OVERHEAD POWER	OHP	
HIGH VOLTAGE LINE	HVL	
UNDERGROUND ELECTRICAL	E	
UNDERGROUND TELEPHONE	T	
UNDERGROUND FIBER OPTIC	FOC	
GAS LINE	G	G
WATER LINE	W	W
FIRE PROTECTION MAIN		FM
DOMESTIC WATER		DW
HEAVY DUTY ASPHALT PAVING		
IRRIGATION MAIN		IRR
IRRIGATION SLEEVE		
FIRE HYDRANT		
WATER VALVE		
SAN. SEWER W/ MANHOLE	SAN	
CLEANOUT		
DRAIN INLET		
CATCH BASIN D.O.T. STD. 1033D		
STORM DRAIN		
SILT FENCE & TYPE		SF1-HD
SPOT ELEVATION		
CONCRETE PAVING		
CONCRETE SIDEWALKS		
PVC IRRIGATION SLEEVE		
SOIL BOUNDARY LINE		
SOIL TYPE		HyB
FENCE		
FENCE W/ 3 STRANDS OF BARBED WIRE		
NOT IN CONTRACT		N.I.C.
TREES TO BE REMOVED		

GRAPHIC SCALE IN FEET

20 0 20 40 60

CERTIFICATION STATEMENT:

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

DON L. CARTER, CERTIFIED LEVEL II PLAN DESIGNER #000000 2061

DEMOLITION NOTES:

1. CONFIRM LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES PRIOR TO ANY DEMOLITION OR CONSTRUCTION.
2. ALL PAVED SURFACES, CURBS, CONCRETE BLOCKS, BUILDING FOOTINGS AND BRICKS SHALL BE REMOVED FROM THE SITE.

   ALL MATERIALS NOTED TO BE DEMOLISHED/REMOVED SHALL BE DISCARDED OFFSITE IN A LEGAL AND LAWFUL MANNER.
3. TREES NOTED TO REMAIN TO BE PROTECTED FROM DAMAGE (INCLUDING ROOT SYSTEM) DURING CONSTRUCTION.
4. ALL LANDSCAPING TREES, SHRUBS, HEDGEROWS OR VEGETATION MAY NOT BE SHOWN. CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING BID TO ASCERTAIN ALL CLEARING REQUIRED FOR CONSTRUCTION OF PROJECT.
5. ALL CONCRETE PADS, PAVED SURFACES, FOUNDATIONS, AND OTHER DEBRIS AND STRUCTURE REMNANTS WITHIN AREA OF CONSTRUCTION TO BE REMOVED ENTIRELY BENEATH STRUCTURAL FOUNDATIONS, IN AREAS THAT MAY INTERFERE WITH THE PLACEMENT OF UNDERGROUND PIPES AND UTILITIES AND WHERE SUB-SURFACE COMPACTION REQUIREMENTS CANNOT BE MET.
6. ELECTRICAL LINES SHALL BE REMOVED AND TRANSFORMERS TURNED OVER TO UTILITY OWNER.
7. CABLE AND PHONE LINE REMOVAL & RELOCATION SHALL BE COORDINATED WITH OWNER & AT&T.
8. EXISTING OPERATIONAL UTILITY METERS, VALVES, BOXES, POLES, ETC. TO REMAIN, OR RELOCATION TO BE COORDINATED WITH OWNER.
9. PROVIDE PROTECTION AT STORM DRAIN STRUCTURES AND ALL OTHER UTILITIES NOT TO BE DISCONNECTED. ALL ITEMS TO REMAIN OPERATIONAL AND IN SERVICE DURING COURSE OF DEMOLITION AND EARTHWORK OPERATIONS.
10. CONTRACTOR SHALL NOTIFY OWNER'S REPRESENTATIVE IF UTILITIES IN ADDITION TO THOSE SHOWN ARE ENCOUNTERED.
11. SANITARY SEWER LATERAL AND WATER SERVICE REMOVAL SHALL BE COORDINATED WITH MWA INSPECTION DEPARTMENT (478) 464-5639. MWA INSPECTOR SHALL OBSERVE AND APPROVE REMOVAL OF SANITARY LATERALS AND WATER SERVICES.
12. CONTRACTOR SHALL PLACE A BLACK PLASTIC BAG OVER ANY FIRE HYDRANT THAT IS NOT IN SERVICE FOR THE DURATION THAT THE HYDRANT IS NOT IN SERVICE.

SITE LOCATION MAP

GEORGIA 811 Utilities Protection Center, Inc. Know what's below. Call before you dig.

Carter & Sloope CONSULTING ENGINEERS
MACON ◆ MOULTRIE ◆ ATHENS ◆ CANTON
6310 PEAKE ROAD . MACON, GA 31210 . 478.477.3923 TEL . 478.477.4691 FAX

RELEASED FOR CONSTRUCTION

GEORGIA REGISTERED PROFESSIONAL ENGINEER DON L. CARTER No. 18069

LEVEL II CERTIFIED DESIGN PROFESSIONAL
CERTIFICATION NUMBER: 0000000061
ISSUED: 1/1/2014 EXPIRES: 1/1/2017

No.	DESCRIPTION	DATE
1.	PER MWA COMMENTS	05/15/2017

MACON-BIBB COUNTY SENIOR CENTER

WILLIE SMOKIE GLOVER DRIVE
MACON, GEORGIA 31201

sizemore group
1700 COMMERCE DRIVE, NW
ATLANTA, GEORGIA 30318
T: 404.355.0555
F: 404.355.0666
www.sizemoregroup.com

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SITE DEMOLITION PLAN

PROJECT #	16020MACSEN
DATE	04/19/2017
DRAWN BY	AGH
CHECKED BY	DLC

C1.1

SCALE 1"=20'

RELEASED FOR CONSTRUCTION

S4200.002MASTER.DWG

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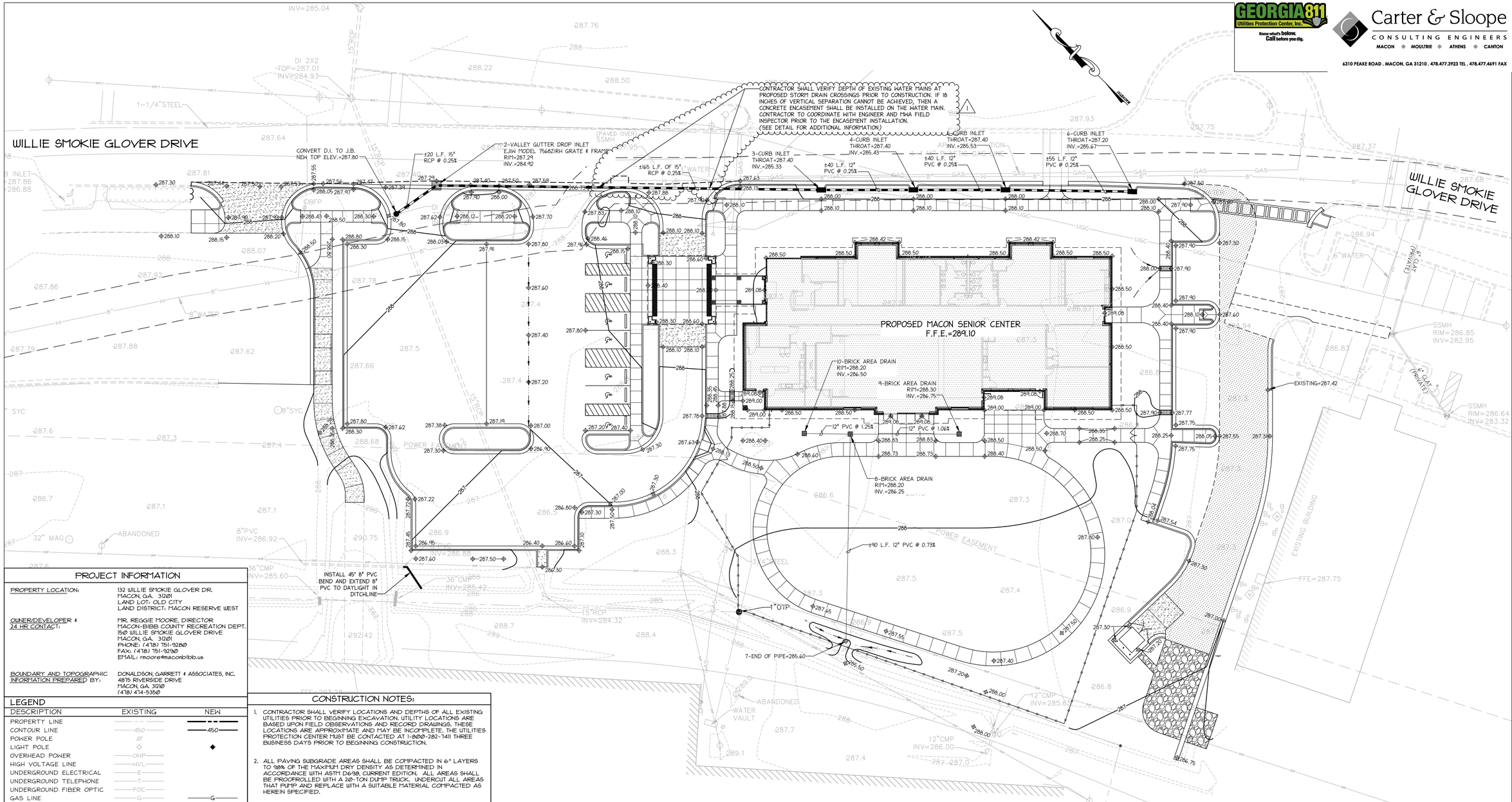

PROJECT INFORMATION

PROPERTY LOCATION:	132 WILLIE SMOKIE GLOVER DR. MACON, GA. 31201 LAND LOT: OLD CITY LAND DISTRICT: MACON RESERVE WEST
OWNER/DEVELOPER & 24 HR CONTACT:	MR. REGGIE MOORE, DIRECTOR MACON-BIBB COUNTY RECREATION DEPT. 150 WILLIE SMOKIE GLOVER DRIVE MACON, GA. 31201 PHONE: (478) 751-9280 FAX: (478) 751-9290 EMAIL: rmoore@maconbibb.us
BOUNDARY AND TOPOGRAPHIC INFORMATION PREPARED BY:	DONALDSON, GARRETT & ASSOCIATES, INC. 4875 RIVERSIDE DRIVE MACON, GA. 31210 (478) 474-5350

LEGEND

DESCRIPTION	EXISTING	NEW
PROPERTY LINE		
CONTOUR LINE	450	450
POWER POLE		
LIGHT POLE		
OVERHEAD POWER	OHP	
HIGH VOLTAGE LINE	HVL	
UNDERGROUND ELECTRICAL	E	
UNDERGROUND TELEPHONE	T	
UNDERGROUND FIBER OPTIC	FOC	
GAS LINE	G	G
WATER LINE	W	W
FIRE PROTECTION MAIN		FM
DOMESTIC WATER		DW
HEAVY DUTY ASPHALT PAVING		
IRRIGATION MAIN		IRR
IRRIGATION SLEEVE		
FIRE HYDRANT		
WATER VALVE		
SAN. SEWER W/ MANHOLE	SAN	
CLEANOUT		
DRAIN INLET		
CATCH BASIN D.O.T. STD. 1033D		
STORM DRAIN		
SILT FENCE & TYPE		SF1-NS
SPOT ELEVATION	+	
CONCRETE PAVING		
CONCRETE SIDEWALKS		
PVC IRRIGATION SLEEVE		
SOIL BOUNDARY LINE		
SOIL TYPE		HyB
FENCE	x x x	x x x
FENCE W/ 3 STRANDS OF BARBED WIRE		x x x
NOT IN CONTRACT		N.I.C.
TREES TO BE REMOVED		

GRAPHIC SCALE IN FEET

20 0 20 40 60

CONSTRUCTION NOTES:

1. CONTRACTOR SHALL VERIFY LOCATIONS AND DEPTHS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING EXCAVATION. UTILITY LOCATIONS ARE BASED UPON FIELD OBSERVATIONS AND RECORD DRAWINGS. THESE LOCATIONS ARE APPROXIMATE AND MAY BE INCOMPLETE. THE UTILITIES PROTECTION CENTER MUST BE CONTACTED AT 1-800-282-7411 THREE BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION.
2. ALL PAVING SUBGRADE AREAS SHALL BE COMPACTED IN 6" LAYERS TO 98% OF THE MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D698, CURRENT EDITION. ALL AREAS SHALL BE PROOFROLLED WITH A 20-TON DUMP TRUCK. UNDERCUT ALL AREAS THAT PUMP AND REPLACE WITH A SUITABLE MATERIAL COMPACTED AS HEREIN SPECIFIED.
3. ALL CONSTRUCTION ON THE SITE SHALL BE IN ACCORDANCE WITH BIBB COUNTY SPECIFICATIONS AND REQUIREMENTS.
4. MAXIMUM CUT AND FILL SLOPES ARE 3:1.
5. NOTIFY COUNTY INSPECTOR 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.

SITE LOCATION MAP

GEORGIA 811 Utilities Protection Center, Inc. Know what's below. Call before you dig.

Carter & Sloope CONSULTING ENGINEERS
MACON ◆ MOULTRIE ◆ ATHENS ◆ CANTON
6310 PEAKE ROAD . MACON, GA 31210 . 478.477.3923 TEL . 478.477.4691 FAX

RELEASED FOR CONSTRUCTION

GEORGIA REGISTERED PROFESSIONAL ENGINEER DAVID L. CARTER No. 18069

LEVEL II CERTIFIED DESIGN PROFESSIONAL
CERTIFICATION NUMBER: 00000003061
ISSUED: 1/1/2014 EXPIRES: 1/1/2017

No.	DESCRIPTION	DATE
1.	PER MWA COMMENTS	05/15/2017

MACON-BIBB COUNTY SENIOR CENTER

WILLIE SMOKIE GLOVER DRIVE
MACON, GEORGIA 31201

sizemore group
1700 COMMERCE DRIVE, NW
ATLANTA, GEORGIA 30318
P 404.609.0900
F 404.609.0909 sizegroup.com
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SITE GRADING AND DRAINAGE PLAN

PROJECT #	16020MACSEN
DATE	04/19/2017
DRAWN BY	AGH
CHECKED BY	DLC

C3.1

SCALE 1"=20'

RELEASED FOR CONSTRUCTION

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GEORGIA 811
Utilities Protection Center, Inc.
Know what's below. Call before you dig.

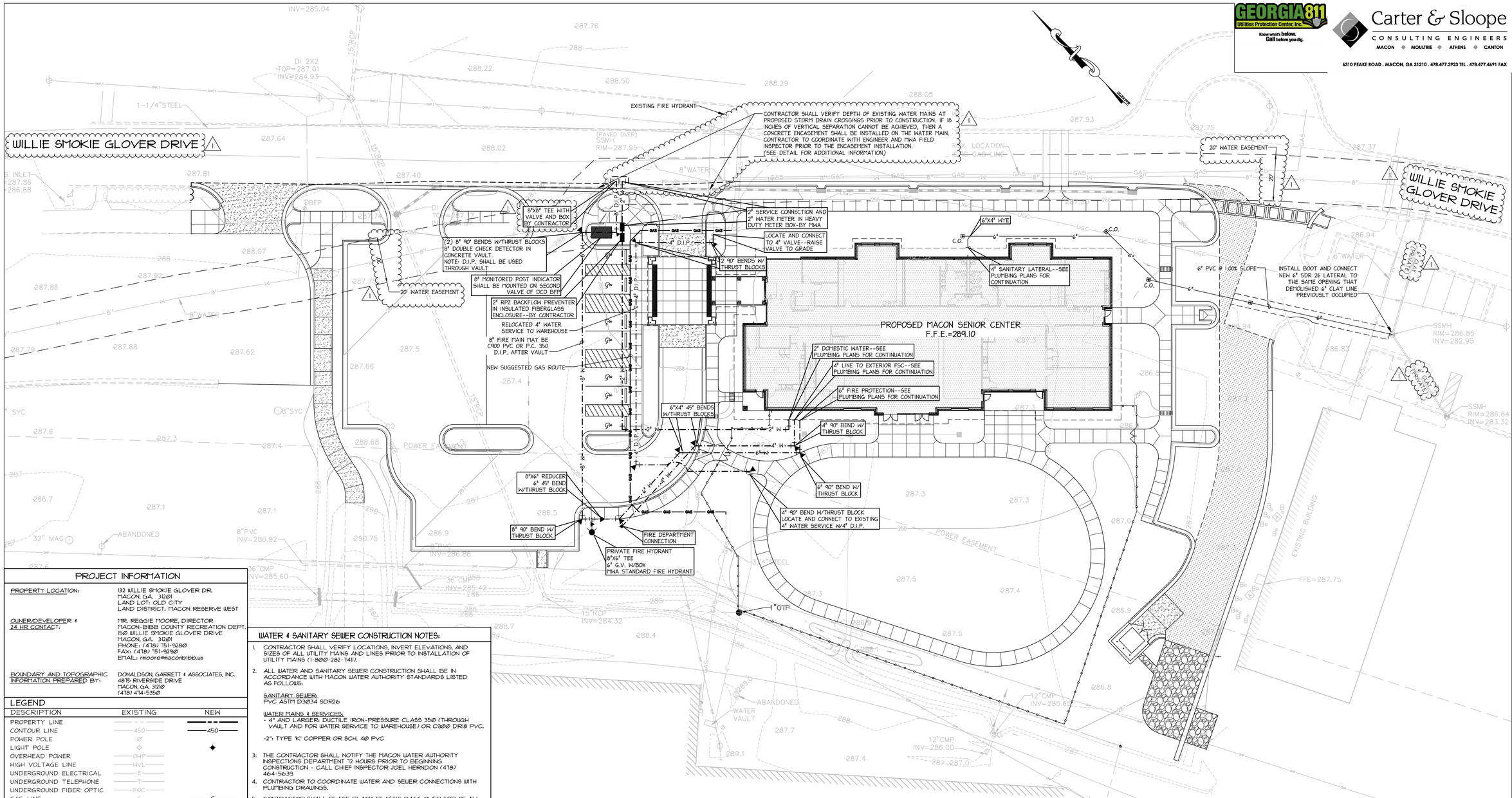
Carter & Sloope
CONSULTING ENGINEERS
MACON ◆ MOULTRIE ◆ ATHENS ◆ CANTON
6310 PEAKE ROAD . MACON, GA 31210 . 478.477.3923 TEL . 478.477.4691 FAX

RELEASED FOR CONSTRUCTION

GEORGIA REGISTERED PROFESSIONAL ENGINEER — No. 18069 — CARTER & SLOOPE, INC.

LEVEL II CERTIFIED DESIGN PROFESSIONAL
CERTIFICATION NUMBER: 00000003061
ISSUED: 1/1/2014 EXPIRES: 1/1/2017

No.	DESCRIPTION	DATE
1.	PER MWA COMMENTS	05/15/2017



PROJECT INFORMATION

PROPERTY LOCATION:	132 WILLIE SMOKIE GLOVER DR. MACON, GA. 31201 LAND LOT: OLD CITY LAND DISTRICT: MACON RESERVE WEST
OWNER/DEVELOPER & 24 HR CONTACT:	MR. REGGIE MOORE, DIRECTOR MACON-BIBB COUNTY RECREATION DEPT. 150 WILLIE SMOKIE GLOVER DRIVE MACON, GA. 31201 PHONE: (478) 751-9280 FAX: (478) 751-9290 EMAIL: rmoore@maconbibb.us
BOUNDARY AND TOPOGRAPHIC INFORMATION PREPARED BY:	DONALDSON, GARRETT & ASSOCIATES, INC. 4815 RIVERSIDE DRIVE MACON, GA. 31210 (478) 474-5350

LEGEND

DESCRIPTION	EXISTING	NEW
PROPERTY LINE		
CONTOUR LINE	450	450
POWER POLE		
LIGHT POLE		
OVERHEAD POWER	OHP	
HIGH VOLTAGE LINE	HVL	
UNDERGROUND ELECTRICAL	E	
UNDERGROUND TELEPHONE	T	
UNDERGROUND FIBER OPTIC	FOC	
GAS LINE	G	G
WATER LINE	W	W
FIRE PROTECTION MAIN		FM
DOMESTIC WATER		DW
HEAVY DUTY ASPHALT PAVING		
IRRIGATION MAIN		IRR
IRRIGATION SLEEVE		
FIRE HYDRANT		
WATER VALVE		
SAN. SEWER W/ MANHOLE	SAN	
CLEANOUT		
DRAIN INLET		
CATCH BASIN D.O.T. STD. 1033D		
STORM DRAIN		
SILT FENCE & TYPE		SF1-MS
SPOT ELEVATION		
CONCRETE PAVING		
CONCRETE SIDEWALKS		
PVC IRRIGATION SLEEVE		
SOIL BOUNDARY LINE		
SOIL TYPE		HyB
FENCE		
FENCE W/ 3 STRANDS OF BARBED WIRE		
NOT IN CONTRACT		N.I.C.
TREES TO BE REMOVED		

GRAPHIC SCALE IN FEET
20 0 20 40 60

WATER & SANITARY SEWER CONSTRUCTION NOTES:

1. CONTRACTOR SHALL VERIFY LOCATIONS, INVERT ELEVATIONS, AND SIZES OF ALL UTILITY MAINS AND LINES PRIOR TO INSTALLATION OF UTILITY MAINS (1-800-282-7411).
2. ALL WATER AND SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH MACON WATER AUTHORITY STANDARDS LISTED AS FOLLOWS:

   SANITARY SEWER:
   PVC ASTM D3034 SDR26

   WATER MAINS & SERVICES:
   - 4" AND LARGER: DUCTILE IRON-PRESSURE CLASS 350 (THROUGH VAULT AND FOR WATER SERVICE TO WAREHOUSE) OR C900 DR18 PVC.

   -2": TYPE 'K' COPPER OR SCH. 40 PVC
3. THE CONTRACTOR SHALL NOTIFY THE MACON WATER AUTHORITY INSPECTIONS DEPARTMENT 72 HOURS PRIOR TO BEGINNING CONSTRUCTION - CALL CHIEF INSPECTOR JOEL HERNDON (478) 464-5639
4. CONTRACTOR TO COORDINATE WATER AND SEWER CONNECTIONS WITH PLUMBING DRAWINGS.
5. CONTRACTOR SHALL PLACE BLACK PLASTIC BAGS OVER TOP OF ALL OUT-OF-SERVICE FIRE HYDRANTS UNTIL THE HYDRANTS ARE IN SERVICE.
6. ALL HYDRANTS AND FITTINGS SHALL HAVE THRUST BLOCKS OR APPROVED EQUAL.
7. METALLIC TAPE LOCATOR SHALL BE USED ON ALL SANITARY SEWER LATERALS.

SITE LOCATION MAP

MACON-BIBB COUNTY SENIOR CENTER

WILLIE SMOKIE GLOVER DRIVE
MACON, GEORGIA 31201

sizemore-group
1700 COMMERCE DRIVE, NW
ATLANTA, GEORGIA 30318
P 404.355.0555
F 404.355.0666 www.sizemore-group.com
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SITE WATER AND SANITARY SEWER PLAN

PROJECT #	16020MACSEN
DATE	04/19/2017
DRAWN BY	AGH
CHECKED BY	DLC

C4.1

SCALE 1"=20'

RELEASED FOR CONSTRUCTION

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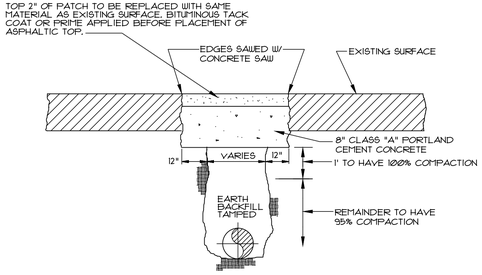
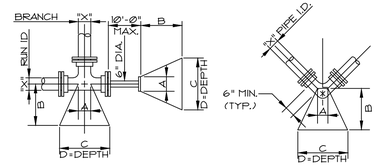
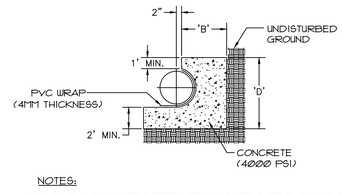


1 CLASS "A" PAVEMENT REPLACEMENT FOR REPAIR OF UTILITY TRENCH

N.T.S.



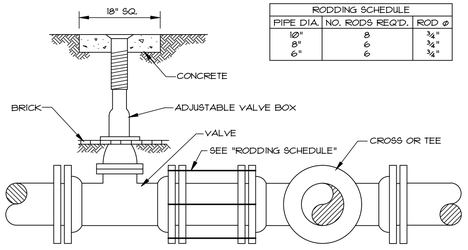


NOTES:

1. 'A', 'B', 'C' & 'D' WILL BE DETERMINED USING ATTACHED BLOCKING DIMENSIONS.
2. MEGALUG RESTRAINTS SHALL BE USED ON ALL BENDS.

2 MWA - TYPICAL BLOCKING DETAIL

N.T.S.

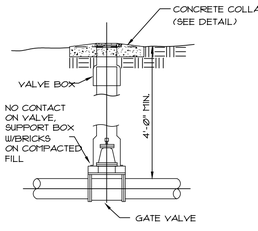


RODDING SCHEDULE		
PIPE DIA.	NO. RODS REQ'D.	ROD ø
10"	8	¾"
8"	6	¾"
6"	6	¾"

3 VALVE SETTING & BOX

N.T.S.

DETAIL AND INSTALLATION TO CONFORM TO MACON WATER AUTHORITY STANDARDS AND REGULATIONS



4 MWA - GATE VALVE DETAIL

N.T.S.

BLOCKING DIMENSIONS TEES AND DEAD ENDS				
X*	A	B	C	D
24"	2'-Ø"	4'-3"	10'-6"	5'-Ø"
20"	1'-8"	3'-9"	9'-4"	4'-Ø"
16"	1'-4"	3'-3"	7'-Ø"	3'-6"
12"	1'-Ø"	3'-Ø"	4'-8"	3'-Ø"
10"	1'-Ø"	2'-6"	4'-Ø"	2'-6"
8"	Ø'-10"	2'-3"	3'-3"	2'-Ø"
6"	Ø'-8"	1'-8"	2'-6"	1'-6"
4"	Ø'-6"	1'-2"	1'-10"	1'-Ø"

NOTE: FOR BLOCKING TEES, REFER TO 150 PSI TEST PRESSURE 2000 PSF SOIL BEARING

BLOCKING DIMENSIONS BENDS					
	X*	A	B	C	D
90°	24"	2'-Ø"	9'-Ø"	12'-4"	6'-Ø"
	20"	1'-8"	7'-6"	10'-4"	5'-Ø"
	16"	1'-4"	6'-2"	8'-6"	4'-Ø"
	12"	1'-Ø"	4'-3"	6'-Ø"	3'-3"
	10"	1'-Ø"	3'-6"	5'-Ø"	2'-9"
	8"	Ø'-10"	2'-9"	4'-Ø"	2'-3"
	6"	Ø'-8"	2'-Ø"	3'-Ø"	1'-9"
	4"	Ø'-6"	1'-9"	2'-6"	1'-Ø"
45°	24"	2'-Ø"	5'-Ø"	7'-9"	5'-2"
	20"	1'-8"	4'-2"	6'-6"	4'-4"
	16"	1'-4"	3'-2"	5'-10"	3'-8"
	12"	1'-Ø"	2'-9"	4'-3"	2'-6"
	10"	1'-Ø"	1'-9"	3'-Ø"	2'-6"
	8"	Ø'-10"	1'-6"	2'-6"	2'-Ø"
	6"	Ø'-8"	1'-3"	2'-Ø"	1'-6"
	4"	Ø'-6"	1'-3"	2'-Ø"	Ø'-9"
22 1/2°	24"	2'-Ø"	3'-9"	6'-4"	3'-3"
	20"	1'-8"	2'-8"	4'-9"	3'-Ø"
	16"	1'-4"	2'-10"	4'-8"	2'-Ø"
	12"	1'-Ø"	1'-9"	3'-Ø"	1'-9"
	10"	1'-Ø"	1'-4"	2'-6"	1'-6"
	8"	Ø'-10"	1'-Ø"	2'-Ø"	1'-3"
	6"	Ø'-8"	Ø'-9"	1'-6"	1'-Ø"
	4"	Ø'-6"	Ø'-9"	1'-Ø"	Ø'-9"
11 1/4°	24"	1'-3"	1'-3"	3'-6"	3'-Ø"
	20"	1'-Ø"	1'-Ø"	3'-Ø"	2'-6"
	16"	1'-Ø"	Ø'-9"	2'-6"	2'-Ø"
	12"	1'-Ø"	Ø'-9"	1'-9"	1'-6"
	10"	1'-Ø"	Ø'-6"	1'-6"	1'-3"
	8"	Ø'-10"	Ø'-6"	1'-4"	1'-Ø"
	6"	Ø'-8"	Ø'-6"	1'-Ø"	Ø'-9"
	4"	Ø'-6"	Ø'-6"	1'-Ø"	Ø'-6"

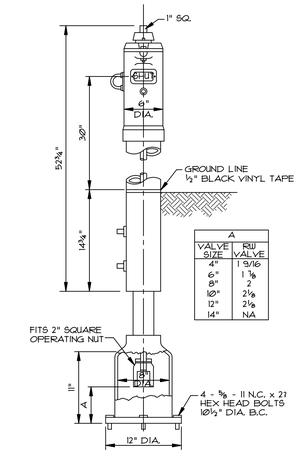
X* = DIAMETER OF PIPE TO BE BLOCKED
NOTE: WRAP THE FITTINGS BEFORE POURING CONCRETE.

5 MWA - BLOCKING DIMENSIONS

N.T.S.

6 MWA - CONCRETE COLLAR FOR VALVE BOX

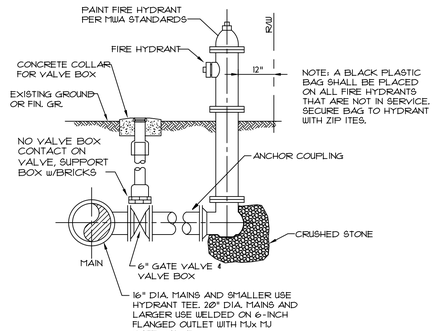
N.T.S.



A	
VALVE SIZE	RW VALVE
4"	1 5/16
6"	1 ⅛
8"	2
10"	2⅛
12"	2⅛
14"	NA

7 POST INDICATOR VALVE

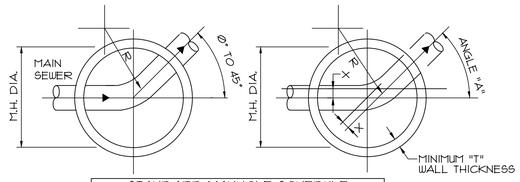
N.T.S.



8 MWA - FIRE HYDRANT DETAIL

N.T.S.

DETAIL AND INSTALLATION TO CONFORM TO MACON WATER AUTHORITY STANDARDS AND REGULATIONS



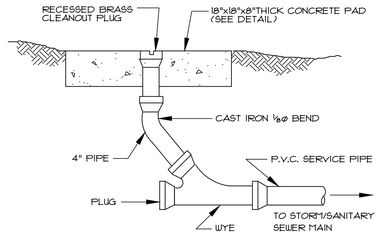
STANDARD MANHOLE SCHEDULE OF GOVERNING DIMENSIONS				
PIPE SIZE	ANGLE "A"	M.H. DIA.	"T"	"X"
8" TO 16"	Ø° TO 90°	4'-Ø"	5"	Ø"
18" TO 24"	Ø° TO 60°	4'-Ø"	5"	Ø"
18" TO 24"	60° TO 90°	5'-Ø"	6"	6"

NOTE:
MINIMUM © RADIUS (R) OF M.H. INVERT = 1.5 x PIPE DIAMETER

TYPICAL PLANS

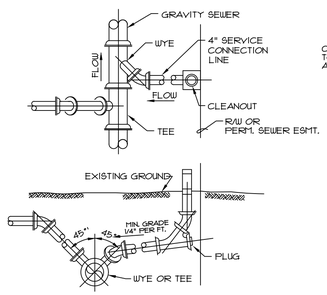
9 MWA - DIRECTION OF FLOW IN A MANHOLE

N.T.S.



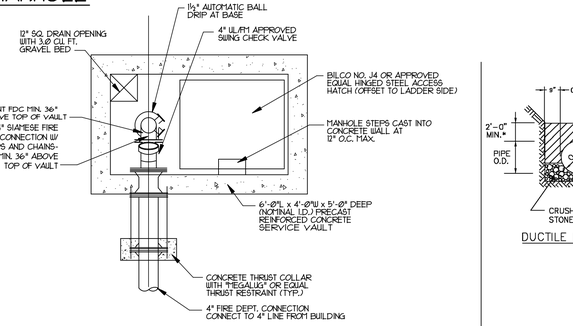
10 SANITARY SEWER CLEANOUT TO GRADE

N.T.S.



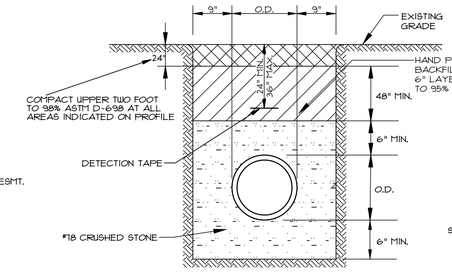
11 MWA - SERVICE CONNECTION DETAIL

N.T.S.



14 SIDEWALK SIAMESE VAULT

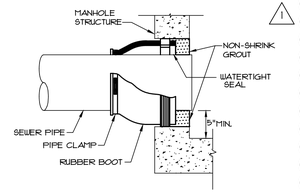
N.T.S.



16 PVC SANITARY SEWER BEDDING

N.T.S.

DETAIL AND INSTALLATION TO CONFORM TO MACON WATER AUTHORITY STANDARDS AND REGULATIONS

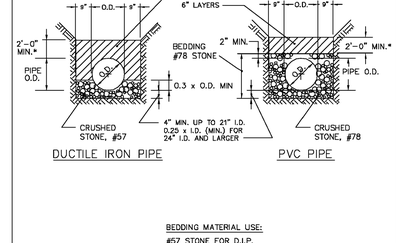


NOTE: PVC & DIP SHALL BE CONNECTED TO MANHOLES BY RUBBER BOOT IN CORED OR PRECAST HOLE OF THE PROPER DIAMETER.

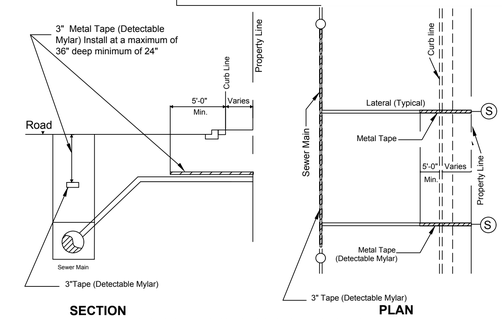
17 MWA - RUBBER BOOT

N.T.S.

DETAIL AND INSTALLATION TO CONFORM TO MACON WATER AUTHORITY STANDARDS AND REGULATIONS

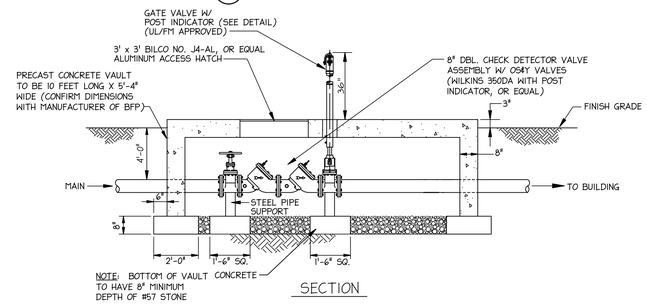


BEDDING MATERIAL USE:
#57 STONE FOR D.I.P.
#78 STONE FOR PVC



12 MWA - METALLIC TAPE LOCATOR DETAIL

N.T.S.



NOTE: BFP GATE VALVE(S) AND POST INDICATOR SHALL HAVE SUPERVISED TAMPER SWITCHES. COORDINATE WITH ELECTRICAL PLANS.

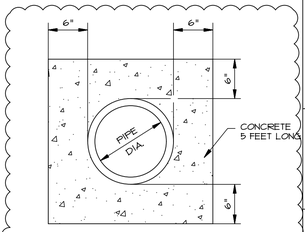
FIRE MAIN 13 8" BACKFLOW PREVENTER

N.T.S.

STATUS	BY	APPROVED	DATE	MACON WATER AUTHORITY STANDARD DETAILS	RECOMMENDED BY THE MACON WATER AUTHORITY ENGINEERING DEPT.
ORIGINAL					
REVISION				15 PIPE BEDDING AND HAUNCHING DETAILS N.T.S.	DRAWING NUMBER OT-2

18 CONCRETE ENCASEMENT DETAIL

N.T.S.



GEORGIA 811 Utilities Protection Center, Inc. Know what's below. Call before you dig.

Carter & Sloope CONSULTING ENGINEERS MACON ◆ MOULTRIE ◆ ATHENS ◆ CANTON
6310 PEAKE ROAD . MACON, GA 31210 . 478.477.3923 TEL . 478.477.4691 FAX

RELEASED FOR CONSTRUCTION
04.07.14 PER MWA COMMENTS

GEORGIA REGISTERED PROFESSIONAL ENGINEER DAVID L. CARTER No. 18069

LEVEL II CERTIFIED DESIGN PROFESSIONAL
CERTIFICATION NUMBER: 0000000706
ISSUED: 1/1/2014 EXPIRES: 1/1/2017

No.	DESCRIPTION	DATE
1	PER MWA COMMENTS	05/15/2017

MACON-BIBB COUNTY
SENIOR CENTER
WILLIE SMOKIE GLOVER DRIVE
MACON, GEORGIA 31201

sizemore_group
1700 COMMERCE DRIVE, NW
P. 404.355.0555 GEORGIA 30318
F. 404.355.0666 sizemoregroup.com
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SITE WATER AND SANITARY SEWER DETAILS

PROJECT #	16020MACSEN
DATE	04/19/2017
DRAWN BY	AGH
CHECKED BY	DLC

C6.3

SCALE AS SHOWN

RELEASED FOR CONSTRUCTION

S42.00.002DETAILS.DWG

P:\S4200 - SIZEMORE GROUP\S4200.002 Macon Senior Center - CCP\CAD\ 2013\S4200.002 Details.DWG, C6.3 UT, 5/19/2017 8:42:18 AM, aharris, DWG To PDF.pc3, ARCH full bleed D (36.00 x 24.00 Inches), 1:1

LIGHTING FIXTURE SCHEDULE

MARK	LAMPS	VOLT.	FIXTURE TYPE-SEE SPECIFICATIONS	MOUNTING	REMARKS
A	LED 4000 LUMENS 44W	120 EQUALS BY:	1x4 LED TROFFER CREE ZR14 SERIES 0-10V DIMMING DRIVER LITHONIA, PHILIPS,COLUMBIA, METALUX	GRID RECESSED	STATIC 3500K
AE	LED 4800 LUMENS	120	SIMILAR TO TYPE B BUT WITH AN EMERGENCY BATTERY WITH LUMEN RATING PER SPECIFICATION	GRID RECESSED	STATIC 3500K
C CG IF GYP CEILING	LED 1664 LUMENS 30W	120 EQUALS BY:	6" LED DOWNLIGHT CREE KR6 SERIES REFLECTOR/FLANGE FINISH PER ARCHITECT SELECTION ELITE, PORTFOLIO, PHILIPS, LITHONIA	GRID RECESSED	3500K
CE/CGE	LED 30W	120	SIMILAR TO TYPE C BUT WITH AN EMERGENCY BATTERY WITH LUMEN RATING PER SPECIFICATION	RECESSED	3500K
D	LED 1064 LUMENS 18W	120 EQUALS BY:	6" LED DOWNLIGHT CREE KR6 SERIES, WALL WASH OPTION REFLECTOR/FLANGE FINISH PER ARCHITECT SELECTION ELITE, PHILIPS, PORTFOLIO, LITHONIA	RECESSED	3500K WET LOCATION LISTED FOR COVERED CEILINGS
E	LED 1664 LUMENS 30W	120 EQUALS BY:	6" LED DOWNLIGHT CREE KR6 SERIES REFLECTOR/FLANGE FINISH PER ARCHITECT SELECTION ELITE, PHILIPS, PORTFOLIO, LITHONIA	RECESSED	3500K WET LOCATION LISTED FOR COVERED CEILINGS
EE	LED 1664 LUMENS	120	SIMILAR TO TYPE E BUT WITH AN EMERGENCY BATTERY WITH LUMEN RATING PER SPECIFICATION	RECESSED	3500K
F	LED 800 LUMENS 12W	120 EQUALS BY:	6" LED DOWNLIGHT CREE CR6 SERIES GU24 BASE, NEW CONSTRUCTION HOUSING ELITE, INTENSE LIGHTING, COOPER, LITHONIA	RECESSED	3500K WET LOCATION LISTED FOR COVERED CEILINGS
FE	LED 800 LUMENS	120	SIMILAR TO TYPE F BUT WITH AN EMERGENCY BATTERY WITH LUMEN RATING PER SPECIFICATION	RECESSED	3500K
G	LED 4000 LUMENS 44W	120 EQUALS BY:	4' LED LINEAR FIXTURE CREE LS4 SERIES, METALUX, PHILIPS, COLUMBIA, LITHONIA	CHAIN	3500K
GE	LED 4000 LUMENS	120	SIMILAR TO TYPE G BUT WITH AN EMERGENCY BATTERY WITH LUMEN RATING PER SPECIFICATION	RECESSED	3500K
H	LED 9.3W/FT 930 LUMENS/ FT	120 EQUALS BY:	3" WIDE LINEAR SLOT FIXTURE XAL FRAME 80 LED, N214 SERIES HP OPAL SHIELDING, WHITE FINISH NEO-RAY, FINELITE, LUMENWERX, MARK LIGHTING, NULITE	RECESSED WOOD	3500K COORDINATE CEILING TYPE WITH THE ARCHITECT
HE	LED 9.3W/FT	120	SIMILAR TO TYPE H BUT WITH AN EMERGENCY BATTERY WITH LUMEN RATING PER SPECIFICATION	RECESSED	3500K
H1	LED 9.3W/FT 930 LUMENS/ FT	120 EQUALS BY:	3" WIDE LINEAR SLOT FIXTURE XAL FRAME 80 LED, N214 SERIES HP OPAL SHIELDING, WHITE FINISH NEO-RAY, FINELITE, LUMENWERX, MARK LIGHTING,NULITE	RECESSED GYPSUM	3500K
J	LED 49W/4 FT 3557 LUMENS/ 4 FT	120 EQUALS BY:	8' LINEAR WALL MOUNTED FIXTURE EATON JAYLUM WALL SERIES, FROSTED LENS JW-WL-3L35-1D-120-SU-WA-8-STD-W LUMENWERX, FINELITE, LUMIUM, PEERLESS	WALL	3500K CENTER HORIZONTALLY ON THE FACE OF THE BULKHEAD, SEE RCP
J4	LED 49W/4 FT	120	SIMILAR TO TYPE J BUT IN A 4' SECTION	WALL	3500K
K	LED 9.3W/FT 930 LUMENS/ FT	120 EQUALS BY:	COVE WALL LIGHTING XAL COVE WALL, N582 SERIES OPAL COVER SHIELDING FINISH AS PER ARCHITECT SELECTION FINELITE, INTER-LUX, FOCAL POINT, MARK LIGHTING	COVE	3500K COORDINATE FIXTURE LENGTH WITH RCP
L	LED 900 LUMENS 17W	120 EQUALS BY:	TRACK LIGHT AVID LABS AVERE 3S PAR CAN SERIES 60 DEGREE BEAM SPREAD FINISH AS PER ARCHITECT SELECTION CONTECH, BRUCK, HALO, JUNO LIGHTING	TRACK	3500K
M	LED 8056 LUMENS 63W	120 EQUALS BY:	42" DIAMETER DRUM FIXTURE BROWNLEE 2340 SERIES WHITE LINEN DIFFUSER BROWNLEE 2340-42-H63LED-WHL-35K CAMMAN LIGHTING, LUMETTA, SHAPER, SPI, LUMENART	SURFACE	3500K
ME	LED	120	SIMILAR TO TYPE M BUT WITH AN EMERGENCY BATTERY WITH LUMEN RATING PER SPECIFICATION	RECESSED	3500K
N	LED 8056 LUMENS 63W	120 EQUALS BY:	42" DIAMETER DRUM FIXTURE BROWNLEE 2600 SERIES NICKEL TONE FINISH, MAHOGANY LINEN DIFFUSER BROWNLEE 2600-42-NT-H63LED-MAL-CC3-35K CAMMAN LIGHTING, LUMETTA, SHAPER, SPI, LUMENART	CORD AND THREE CABLE MOUNT AT 92" TO BOTTOM OF FIXTURE	3500K
NE	LED	120	SIMILAR TO TYPE M BUT WITH AN EMERGENCY BALLAST WITH LUMEN RATING PER SPECIFICATION	RECESSED	
P	LED 380 LUMENS 10.5W	120 EQUALS BY:	EXTERIOR SCONCE MODERN FORMS VITRINE WS-W32516-BZ BRONZE FINISH LUMENS, OXYGEN,TERON, TECH LIGHTING, PROGRESS	WALL 8'	3500K PROVIDE AN EMERGENCY BALLAST WITH LUMEN RATING PER SPECIFICATION

LIGHTING FIXTURE SCHEDULE

MARK	LAMPS	VOLT.	FIXTURE TYPE-SEE SPECIFICATIONS	MOUNTING	REMARKS
O	LED 900 LUMENS 10 W	120 EQUALS BY:	INTERIOR SCONCE VISA LIGHTING CB3559 SERIES BLADE SILVER FINISH CAMMAN, OXYGEN, COOPER, PROGRESS	WALL 8' TO TOP OF FIXTURE	3500K
Q	LED 12W	120 EQUALS BY:	4 LIGHT PENDANT PHILIPS ADRIO, 366711748 SERIES PHILIPS, HUBBELL BRANDS, COOPER, TECH LIGHTING	PENDANT	3500K COODINATE LAMP REQUIREMENTS WITH THE MANUFACTURER
R		120 EQUALS BY:	50" EXTERIOR CEILING FAN FANIMATION EDGEWOOD WET LOCATION TF9100B KICHLER, PROGRESS LIGHTING,	PENDANT	
S	LED 965 LUMENS PER FOOT 8W/FT	120 EQUALS BY:	6' PENDANT FIXTURE LUMIUM ND2 SERIES, LARGER APERTURE INDIRECT ND2-CSLAI-6'-30K-SO-1V-ND-SC-MF-55-SW-G-4 MACHINED FINISH END CAPS, 5" POWER FEED CANOPY HE WILLIAMS, ALW, COOPER, BIRCHWOOD, OCL, EUREKA	4' AIRCRAFT CABLE MOUNT 108" TO BOTTOM OF FIXTURE	3500K COORDINATE HEIGHT WITH THE ARCHITECT 6' SECTIONS
SE	LED	120	SIMILAR TO TYPE S BUT WITH AN EMERGENCY BATTERY WITH LUMEN RATING PER SPECIFICATION	4' AIRCRAFT CABLE	
S2	LED 965 LUMENS PER FOOT 8W/FT	120 EQUALS BY:	6' PENDANT FIXTURE LUMIUM ND2 SERIES, LARGER APERTURE DIRECT ND2-CSLAD-6'-30K-SO-1V-ND-SC-MF-55-SW-G-4 MACHINED FINISH END CAPS, 5" POWER FEED CANOPY HE WILLIAMS, ALW, COOPER, BIRCHWOOD, OCL, EUREKA	4' AIRCRAFT CABLE MOUNT 108" TO BOTTOM OF FIXTURE	3500K COORDINATE HEIGHT WITH THE ARCHITECT 4' SECTIONS
S2E	LED	120	SIMILAR TO TYPE S2 BUT WITH AN EMERGENCY BATTERY WITH LUMEN RATING PER SPECIFICATION	4' AIRCRAFT CABLE	
T	LED 10W	120 EQUALS BY:	BATHROOM SCONCE TECH LIGHTING 700WSCOS SERIES WHITE FRIT COLOR, SATIN NICKEL FINISH TECH LIGHTING 700WSCOS-W-S-LED KICHLER, OXYGEN, PROGRESS LIGHTING, LBL LIGHTING	WALL 88" TO CENTERLINE	3000K
U	LED	120 EQUALS BY:	UNDERCABINET LIGHT JUNO DANALITE FLEX CONNECT SL212 FINISH AS PER ARCHITECT SELECTION CONTECH LIGHTING, NULITE, COOPER, PROGRESS	SURFACE	3500K COORDINATE FIXTURE LENGTH WITH THE RCP
V	LED 1100 LUMENS 12W	120 EQUALS BY:	INTERIOR SCONCE VISA LIGHTING CB3405 SERIES BLADE SILVER FINISH CAMMAN, OXYGEN, COOPER, PROGRESS	WALL 114" TO TOP OF FIXTURE	3500K
W	LED 10W	120 EQUALS BY:	EGRESS LIGHTING EXITRONIX NIGHTFALL NF5 SERIES BRUSHED ALUMINUM FINISH PHILIPS, LIGHTALARMS, COOPER, LITHONIA	WALL 9'	3500K PROVIDE BATTERY SECURITY LIGHTING/ NIGHT LIGHTING OPTION
X-1	LED	120 EQUALS BY:	SINGLE FACE EDGE LIT EXIT SIGN BRUSHED ALUMINUM HOUSING GREEN ON CLEAR BACKGROUND SEE PLANS FOR ARROW INDICATORS AND MOUNTING CONFIGURATION EXITRONIX S900U SERIES CHLORIDE, SURE-LITES, LIGHTALARMS, LITHONIA	UNIVERSAL	BATTERY REQUIRED
X-2	LED	120 EQUALS BY:	DOUBLE FACE EDGE LIT EXIT SIGN BRUSHED ALUMINUM HOUSING GREEN ON MIRROR BACKGROUND SEE PLANS FOR ARROW INDICATORS AND MOUNTING CONFIGURATION EXITRONIX S900U SERIES CHLORIDE, SURE-LITES, LIGHTALARMS, LITHONIA	UNIVERSAL	BATTERY REQUIRED

ELECTRICAL LEGEND

LIGHTING FIXTURES

	FLUORESCENT ON "NORMAL" POWER		(LIFE SAFETY EGRESS FIXTURE) (UNSWITCHED NIGHT LIGHT FIXTURE) (WITH INTEGRAL BATTERY PACK)
	CEILING MOUNTED FIXTURE		EXIT LIGHT (ARROWS AS SHOWN)
	WALL MOUNTED FIXTURE		EMERGENCY BATTERY PACK-WALL
	TRACK LIGHTS: QUANTITY OF HEADS AS SHOWN		EMERGENCY BATTERY PACK-CEILING

LIGHTING CONTROL

$	SINGLE POLE SWITCH		RELAY PANEL
$2	TWO POLE SWITCH	U	CEILING MOUNTED ULTRASONIC OCCUPANCY SENSOR AND RELAY
$3	THREE WAY SWITCH		
$4	FOUR WAY SWITCH	I / I	CEILING/WALL MOUNTED INFRARED OCCUPANCY SENSOR AND RELAY
$D	DIMMER SWITCH		
$K	KEYED SWITCH (SOME ARE THREE WAY)	UI	CEILING MOUNTED COMBINATION INFRARED/ ULTRASONIC OCCUPANCY SENSOR AND RELAY
$P	"P" INDICATES PILOT LIGHT		
$I	WALL MOUNTED SWITCH INFRARED OCCUPANCY SENSOR	PE	EXTERIOR TYPE PHOTO ELECTRIC SWITCH
$L	LOW VOLTAGE SWITCH		

RECEPTACLES

	DUPLEX - NORMAL		CEILING OUTLET DUPLEX - NORMAL
	QUADRAPLEX - NORMAL	AC	ABOVE COUNTER RECEPTACLE AT 44" AFF
	GFI DUPLEX - NORMAL	EWC	ELECTRIC WATER COOLER OUTLET
	GFI QUADRAPLEX - NORMAL	WP	WEATHER PROOF OUTLET
	FLOOR OUTLET DUPLEX - NORMAL		SPECIAL - TYPE NOTED OR SHOWN
	FLOOR OUTLET QUADRAPLEX - NORMAL		MULTI-OUTLET ASSEMBLY

CIRCUITS

	ONE CROSSMARK PER WIRE (3 WIRE UNLESS SHOWN)		RACEWAY EXPOSED FLEXIBLE RACEWAY
	RACEWAY CONCEALED IN CEILING OR WALL		CONDUIT UP CONDUIT DOWN
	RACEWAY IN GROUND, SLAB, OR UNDER FLOOR		CAP CONNECTION TO EQUIPMENT
	HOMERUN- ONE ARROW PER CIRCUIT		

GENERAL EQUIPMENT

	PANELBOARD-250 VAC OR LESS SURFACE MOUNTED		BACKBOARD SURGE SUPPRESSOR
	PANELBOARD-250 VAC OR LESS RECESSED		JUNCTION BOX - WALL/CEILING/FLOOR MOTOR
	PANELBOARD-OVER 250 VAC SURFACE MOUNTED		EXHAUST FAN COMBINATION STARTER AND DISCONNECT
	PANELBOARD-OVER 250 VAC RECESSED	$M	MANUAL STARTER AND MOTOR RATED SWITCH CABLE TRAY
T	TRANSFORMER		EMERGENCY PUSHBUTTON ENCLOSED CIRCUIT BREAKER
F ##/##/#	DISCONNECT SWITCH: "F" IF FUSED FRAME AMPS/POLES/NEMA TYPE FUSE PER MANUFACTURERS RECOMMENDATIONS		ENCLOSED BREAKER-RECESSED IN WALL

FIRE PROTECTION EQUIPMENT

FACP	FIRE ALARM PANEL		DUCT MOUNTED SMOKE DETECTOR
FAA	FIRE ALARM ANNUNCIATOR		
F	MANUAL PULL STATION		SMOKE DETECTOR: CEILING / WALL
	AUDIO/VISUAL ALARM: CEILING/WALL		HEAT DETECTOR: CEILING / WALL
	VISUAL ALARM: CEILING/WALL	WF	WATER FLOW SWITCH
	SPEAKER/VISUAL ALARM: CEILING/WALL	VS DH	WATER TAMPER SWITCH DOOR HOLDER
BT	SMOKE DETECTOR/SENSOR - BEAM TRANSMITTER		FIREMAN'S PHONE OUTLET
BR	SMOKE DETECTOR/SENSOR - BEAM RECEIVER		

COMMUNICATIONS

#	VOICE OUTLET, QUANTITY OF JACKS AS NOTED	#	FLOOR DATA OUTLET, QUANTITY OF JACKS AS NOTED
#	DATA OUTLET, QUANTITY OF JACKS AS NOTED		
#/#	COMBINATION VOICE/DATA OUTLET, QUANTITY OF VOICE/DATA JACKS AS NOTED	#/#	FLOOR COMBINATION VOICE/DATA OUTLET, QUANTITY OF JACKS AS NOTED
#	FLOOR VOICE OUTLET, QUANTITY OF JACKS AS NOTED		FIBER OUTLET
		TV	TELEVISION OUTLET

LIGHTNING PROTECTION AND GROUNDING

G	GROUNDING CONDUCTOR- UNDER SLAB OR BELOW GRADE	G	GROUNDING CONDUCTOR- CONCEALED IN ROOF OR WALLS
C	GROUND ROD - C IF CHEMICAL	G	GROUNDING CONDUCTOR- EXPOSED
	GROUND CONNECTION (SCHEMATIC)		AIR TERMINAL
		G	GROUNDING PLATE

Permit Set

GEORGIA REGISTERED PROFESSIONAL ENGINEER NO. 036... TIMOTHY W. TROTTER

No.	DESCRIPTION	DATE
1	REVISION 1	5-15-17

MACON-BIBB COUNTY
SENIOR CENTER

WILLIE SMOKIE GLOVER DRIVE
MACON, GEORGIA 31201

sizemoregroup
1700 COMMERCE DRIVE, NW
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T: 404 605 0690
F: 404 605 0890
www.sizemoregroup.com

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LEGEND & SCHEDULE - ELECTRICAL

PROJECT #	16020MACSEN
DATE	4/19/2017
DRAWN BY	JCW
CHECKED BY	TWT

E001

SCALE AS SHOWN

Permit Set

NOTES: (THIS SHEET ONLY)

1. APPROXIMATE LOCATION OF NEW GEORGIA POWER METERING CABINET. COORDINATE PAD REQUIREMENTS WITH THE UTILITY.
2. APPROXIMATE LOCATION OF NEW GEORGIA POWER POLE MOUNTED TRANSFORMER. GEORGIA POWER TO PROVIDE CONDUCTORS FROM THE TRANSFORMER SECONDARY TO THE METERING CABINET DESCRIBED BY NOTE 1.
3. DIVISION 26 TO PROVIDE SERVICE CONDUCTORS AS NOTED ON E701 AT DEPTH NOTED IN THE SPECIFICATIONS.
4. PROVIDE (2) - 4" CONDUITS FOR TELEPHONE SERVICE ENTRANCE. COORDINATE EXACT LOCATION AND ADDITIONAL REQUIREMENTS WITH THE SERVICE PROVIDER.

GENERAL NOTES: (THIS SHEET ONLY)

A. UTILITIES SHOWN ARE BASED ON THE BEST AVAILABLE INFORMATION AT THE TIME OF DESIGN. CONTRACTOR SHALL NOTIFY THE UTILITIES PROTECTION CENTER (UPC) PRIOR TO ANY DIGGING.

B. HAND DIG AROUND ALL KNOWN UTILITIES.

C. PROVIDE TAMPER SWITCHES AT BACKFLOW PREVENTOR AND POST INDICATOR VALVE (EXACT LOCATIONS TO BE DETERMINED). MAKE ALL REQUIRED CONNECTIONS TO BUILDING FIRE ALARM PANEL.

D. POWER IRRIGATION SYSTEM FROM RP-60. COORDINATE EXACT LOCATION WITH THE LANDSCAPE DRAWINGS.

CI TOP=288.22 INV=285.04

TBM #1 60D NAIL IN UTILITY POLE ELEV=289.15

TBM #2 60D NAIL IN UTILITY POLE ELEV=289.37

DI 2X2 TOP=287.01 INV=284.93

15"RCP

1-1/4"STEEL

4 N:1030829.64 E:2470654.36 Z:288.07

(PAVED OVER) CMP RIM=287.37

APPROX. LOCATION 1-1/4" PLASTIC GAS LINE

8"WATER

CURB INLET TOP=287.86 THROAT=286.88

SHRUBS

DI 2X2 TOP=287.17 INV=284.87

3/4"STEEL

1"WATER

30" MAG

6"WATER

SSMH RIM=286.77 INV=276.77

2 N:1031029.20 E:2470334.68 Z:287.94

8"SYC

24" SYC

36"SYC

POWER EASEMENT

5 N:1030584.10 E:2470748.01 Z:287.09

EXISTING BUILDING

FFE=287.75

MDP

CM

ABANDONED

8"PVC INV=286.92

8"PVC INV=286.88

32" MAG

36"CMP INV=285.60

36"CMP INV=285.42

15"RCP INV=284.32

FFE=293.28

EXISTING BUILDING

ABANDONED WATER VAULT

3 N:1030624.49 E:2470493.19 Z:287.81

12"CMP INV=286.00

12"CMP INV=285.85

3/8"REBAR N1030525.84 E2470575.20

1 SITE PLAN - ELECTRICAL

SCALE: 1" = 20'-0"

20 0 10 20 40

N

Permit Set

GEORGIA REGISTERED NO. 36... PROFESSIONAL ENGINEER TIMOTHY W. TROTTER

No	DESCRIPTION	DATE
1	REVISION 1	5-15-17

MACON-BIBB COUNTY SENIOR CENTER

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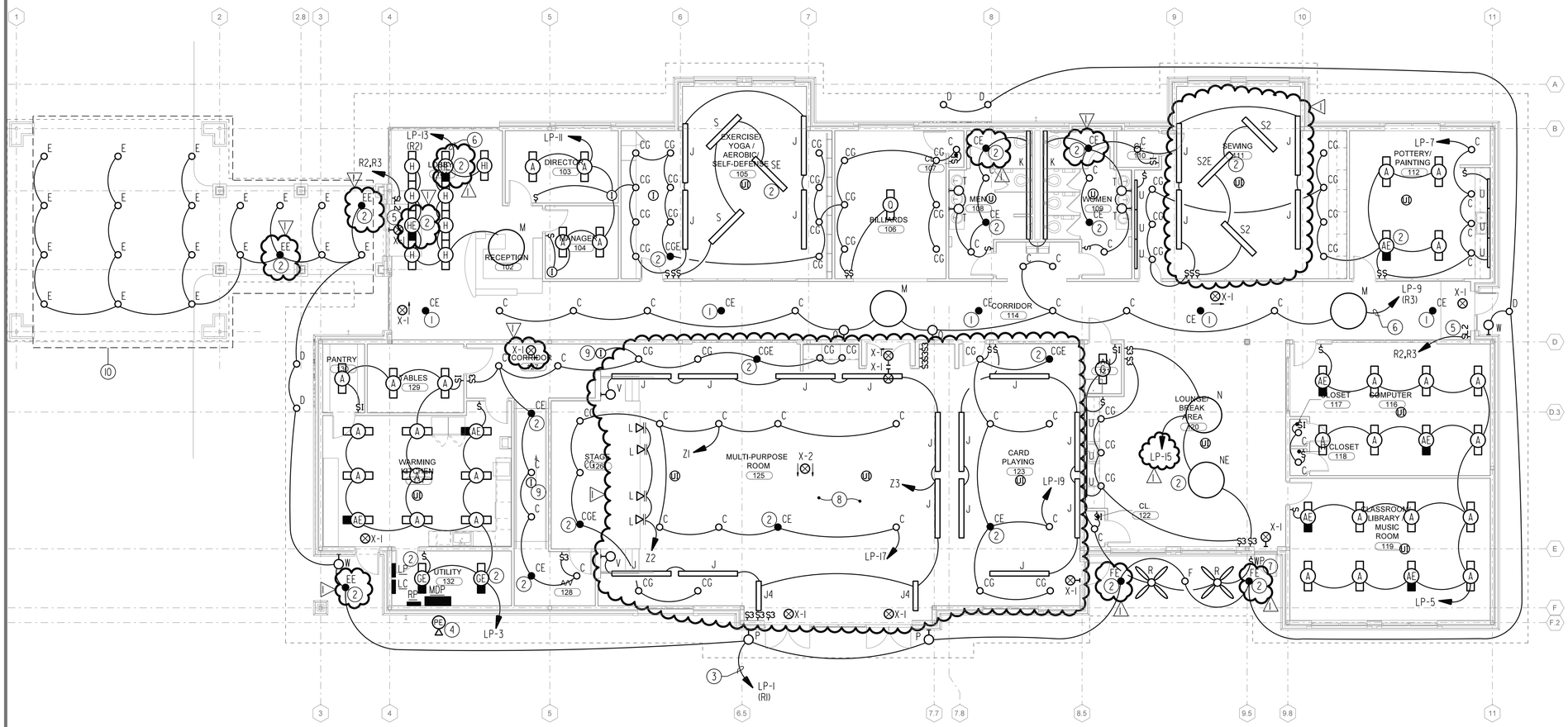
SITE PLAN - ELECTRICAL

PROJECT #	16020MACSEN
DATE	4/19/2017
DRAWN BY	JCW
CHECKED BY	TWT

E101

SCALE AS SHOWN

Permit Set

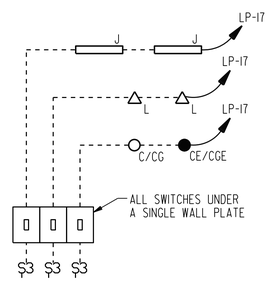


1 FLOOR PLAN - LIGHTING

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

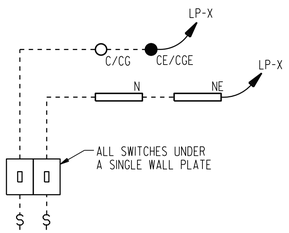
8 0 4 8 16

N



2 MULTI-PURPOSE ROOM SWITCHING

NOT TO SCALE



3 MULTIPLE ZONE SWITCHING

NOT TO SCALE

GENERAL NOTES: (THIS SHEET ONLY)

(A) OCCUPANCY SENSORS ARE SHOWN AS A PLACEMENT GUIDE ONLY, LOCATE AS DIRECTED BY THE MANUFACTURER. TYPICALLY SENSORS LOCATED IN THE CENTER OF THE SPACE ARE 360 DEGREE TYPE. SENSORS SHOWN IN THE CORNERS SHALL BE MADE FOR THAT POSITION. WHERE POSSIBLE, MAINTAIN 4'-6' FROM HVAC REGISTERS.

(B) ALL EXIT SIGNS AND FIXTURES NOTED AS EMERGENCY, SWITCHED OR UNSWITCHED SHALL BE EQUIPPED WITH AN INTEGRAL BATTERY PACK.

(C) EXIT SIGNS SHALL BE POWERED FROM A LOCAL CIRCUIT IN THE SPACE.

(D) PROVIDE DEDICATED NEUTRALS FOR ALL BRANCH CIRCUITS.

(E) WHERE MULTIPLE SWITCHES ARE SHOWN IN A SPACE, PROVIDE WIRING SIMILAR TO 3/E201.

NOTES: (THIS SHEET ONLY)

(1) UNSWITCHED EMERGENCY FIXTURE, CONNECT BATTERY TO UNSWITCHED CIRCUIT CONDUCTORS.

(2) SWITCHED EMERGENCY FIXTURE, CONNECT BATTERY TO UNSWITCHED CIRCUIT CONDUCTORS.

(3) ROUTE THROUGH LIGHTING CONTACTOR PANEL LC. THESE FIXTURES SHALL BE PHOTOCELL ON/PHOTOCELL OFF.

(4) POSITION PHOTOCELL ON WALL AT 12' AFF AND AIM NORTH.

(5) TWO BUTTON LOW VOLTAGE SWITCH TO CONTROL THE RELAYS NOTED IN CONTACTOR PANEL LC.

(6) ROUTE THROUGH LIGHTING CONTACTOR PANEL LC. THESE FIXTURES SHALL BE USER ON/TIMECLOCK OFF.

(7) PROVIDE A SWITCH IN A WEATHERPROOF ENCLOSURE TO SWITCH THE FANS.

(8) PROVIDE SWITCHING SIMILAR TO 2/E201FOR THIS SPACE.

(9) OCCUPANCY SENSORS WORK IN PARALLEL TO OPERATE GANGED FIXTURES.

(10) WORK AT THIS COVERED CANOPY WILL BE AN ADDITIVE ALTERNATE. COORDINATE WITH THE ARCHITECTURAL DRAWINGS.

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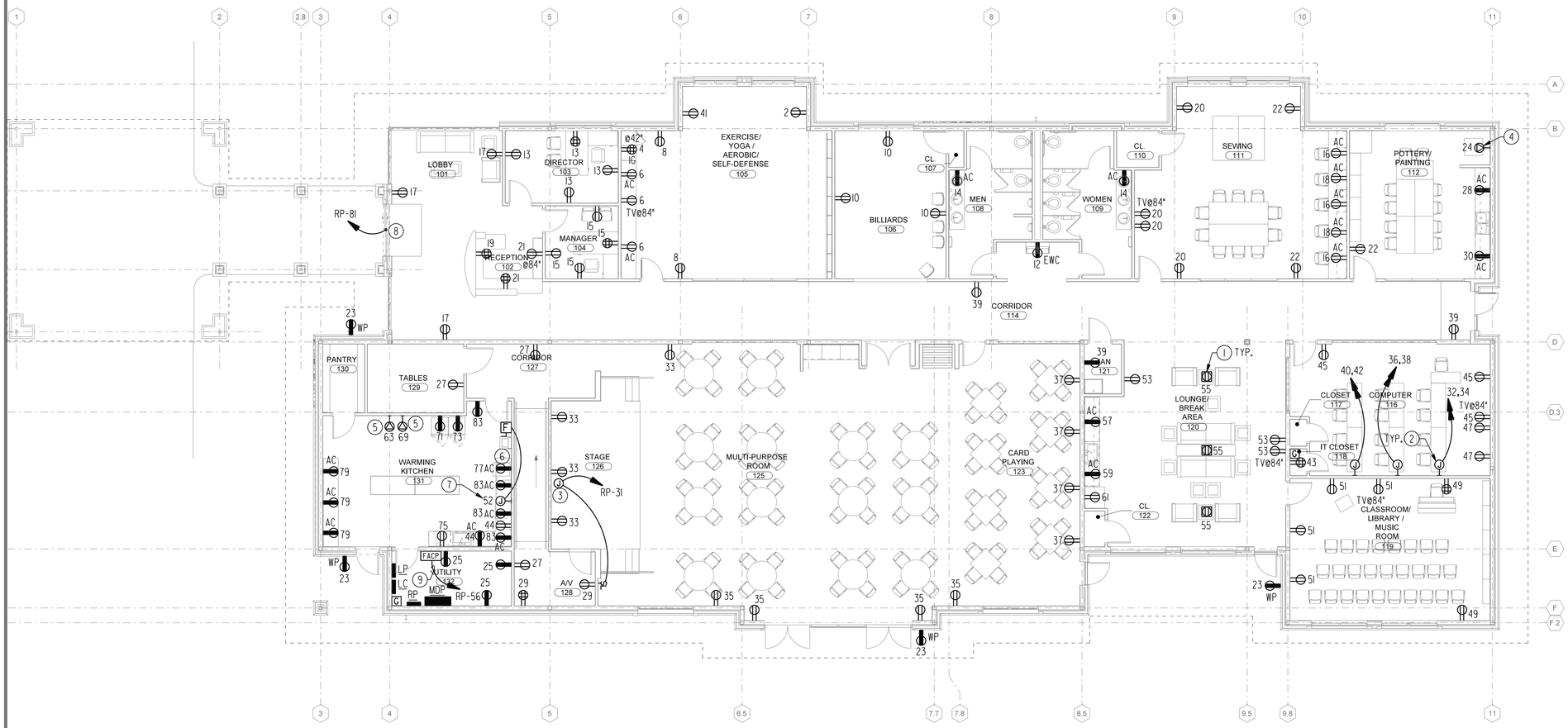
FLOOR PLAN - LIGHTING

PROJECT #	16020MACSEN
DATE	4/19/2017
DRAWN BY	JCW
CHECKED BY	TWT

E201

SCALE AS SHOWN

Permit Set



1 FLOOR PLAN - POWER

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

8 0 4 8 16

N

GENERAL NOTES: (THIS SHEET ONLY)

(A) PROVIDE DEDICATED NEUTRALS FOR ALL BRANCH CIRCUITS.

(B) COORDINATE EXACT PLACEMENT OF ALL FLOOR BOXES WITH THE ARCHITECT PRIOR TO ROUGH IN.

(C) A NUMBER ADJACENT TO THE RECEPTACLE INDICATES CIRCUIT IN PANEL RP. CONSOLIDATION OF HOMERUNS IS ACCEPTABLE UP TO THREE.

(D) ALL OUTLETS LOCATED WITHIN 6 FEET OF ANY WATER SOURCE AND ALL KITCHEN OUTLETS SHALL BE GFCI.

(E) COORDINATE EXACT MOUNTING HEIGHT OF ALL OUTLETS WITH ARCHITECTURAL ELEVATION DRAWINGS.

(F) PROVIDE TAMPER PROOF OUTLETS. 1

NOTES: (THIS SHEET ONLY)

1. PROVIDE A FLOOR BOX BASED ON THE WIREMOLD CM2 SERIES CAST IRON BOX. PROVIDE A BOX DIVIDER FOR POWER AND DATA. ROUTE 3/4"C TO PANEL FOR POWER AND 1"C TO ABOVE ACCESSIBLE CEILING FOR DATA.
2. PROVIDE JUNCTION BOX FOR POWER/SYSTEMS FEED TO FURNITURE. PROVIDE CONCEALED CONNECTION TO FURNITURE RACEWAY. PROVIDE ONE OUTLET PER SEAT LOCATION. NO MORE THAN THREE OUTLETS ON ONE CIRCUIT. PROVIDE MULTIPLE SERVICE BOX WITH A LOW VOLTAGE DIVIDER TO ALLOW OR POWER/TELECOM CABLES. PROVIDE A 1-1/2" CONDUIT FOR TELECOM AND 3/4" CONDUIT FOR POWER.
3. PROVIDE 120 VOLT POWER TO PROJECTION SCREEN. MAKE ALL FINAL CONNECTIONS AND WIRE THROUGH CONTROL SWITCH COORDINATE SWITCH LOCATION WITH THE ARCHITECT.
4. PROVIDE POWER TO KILN MACHINE. PROVIDE CORD AND PLUG ASSEMBLY. FIELD COORDINATE EXACT LOCATION.
5. PROVIDE POWER TO WARMING. PROVIDE A NEMA 6-20R RECEPTACLE. FIELD COORDINATE EXACT LOCATION.
6. PROVIDE POWER TO ICE MACHINE. FIELD COORDINATE EXACT LOCATION.
7. PROVIDE POWER TO UNDERCOUNTER OVEN. FIELD COORDINATE EXACT LOCATION. PROVIDE A 30A/3P/1FUSED DISCONNECT TO SERVE AS THE DISCONNECTING MEANS.
8. PROVIDE 120V POWER TO DOOR HARDWARE POWER SUPPLY.
9. DEDICATED CIRCUIT FOR THE FIRE ALARM PANEL TO BE PROTECTED WITH A MECHANICAL LOCKING DEVICE IN THE SERVING PANEL AND BE LABELED "FIRE ALARM CIRCUIT" IN RED LETTERING.

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FLOOR PLAN - POWER

PROJECT #	16020MACSEN
DATE	4/19/2017
DRAWN BY	JCW
CHECKED BY	TWT

E301

SCALE AS SHOWN

Permit Set

GENERAL NOTES: (THIS SHEET ONLY)

(A) DATA OUTLETS ARE SHOWN AS A PLACEMENT GUIDE ONLY FOR THE ELECTRICAL CONTRACTOR TO PROVIDE BACK BOXES AND CONDUIT UP TO ACCESSIBLE CEILING. CABLING SHALL BE BY OTHERS.

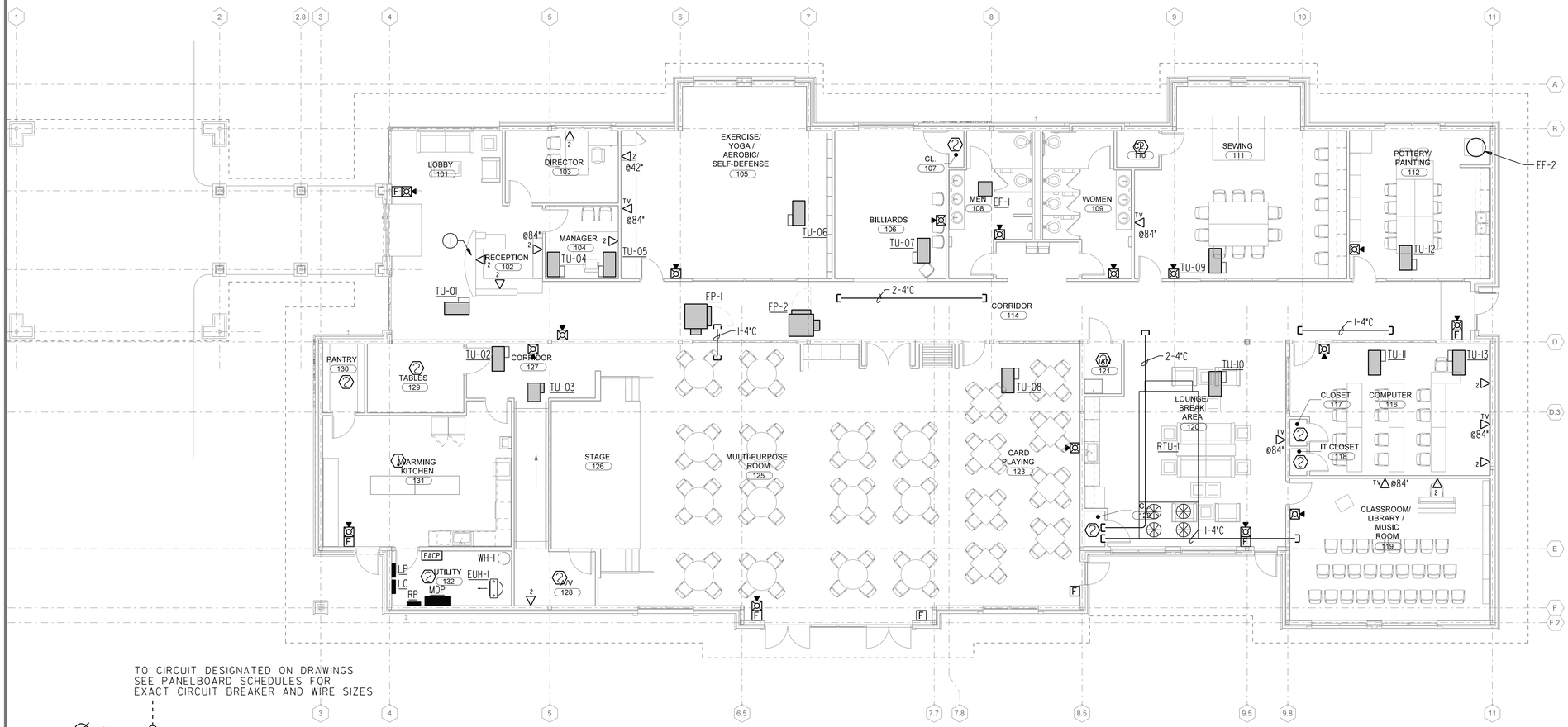
(B) PROVIDE PULLSTRINGS IN ALL EMPTY LOW VOLTAGE BOXES/CONDUIT.

(C) UNLESS NOTED OTHERWISE, PROVIDE MINIMUM 1" CONDUIT FOR EACH TELECOM OUTLET SHOWN.

(D) PROVIDE J-HOOKS ON WALL ABOVE ACCESSIBLE CEILING FOR LOW VOLTAGE CABLE ROUTING. DO NOT EXCEED MANUFACTURERS PUBLISHED RECOMMENDATIONS. J-HOOKS SHALL BE PLENUM RATED. SPACE HOOKS PER MANUFACTURERS RECOMMENDATIONS.

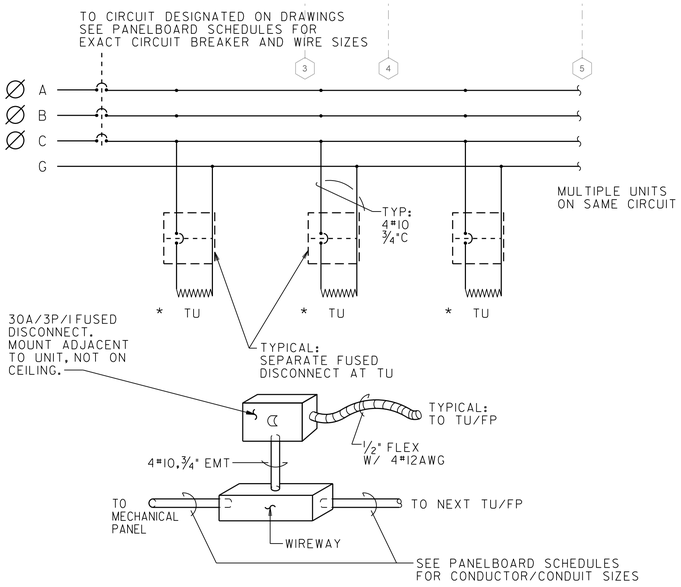
NOTES: (THIS SHEET ONLY)

(1) CONDUITS FOR OUTLETS AT THIS LOCATION SHALL ROUTE FROM THE ADJACENT WALL TO FEED OUTLET IN THE MILLWORK.



1 FLOOR PLAN - SYSTEMS/HVAC POWER

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



2 CIRCUITING FOR TERMINAL UNITS (TU) AND FAN POWERED BOXES (FP)

NOT TO SCALE

MECHANICAL EQUIPMENT LOADS

MECHANICAL TAG	VOLTAGE	DISCONNECT TYPE	DISCONNECT SIZE AMP/POLE/NEMA	HP/KW/MOCP	CIRCUIT	NOTES
EF-1	120/1	MOTOR RATED SWITCH	---	1/6 HP	RP-1	1
EF-2	120/1	MOTOR RATED SWITCH	---	1/8HP	RP-3	1
TU-01	208/3	FUSED DISCONNECT	30A/3P/1	4 KW	MDP-19	2,3
TU-02	208/3	FUSED DISCONNECT	30A/3P/1	3 KW	MDP-19	2,3
TU-03	120/1	MOTOR RATED SWITCH	---	---	RP-5	1
TU-04	208/3	FUSED DISCONNECT	30A/3P/1	1 KW	MDP-19	2,3
TU-05	208/3	FUSED DISCONNECT	30A/3P/1	1.5 KW	MDP-19	2,3
TU-06	208/3	FUSED DISCONNECT	30A/3P/1	3 KW	MDP-19	2,3
TU-07	208/3	FUSED DISCONNECT	30A/3P/1	4 KW	MDP-25	2,3
TU-08	208/3	FUSED DISCONNECT	30A/3P/1	3.5 KW	MDP-25	2,3
TU-09	208/3	FUSED DISCONNECT	30A/3P/1	4 KW	MDP-25	2,3
TU-10	208/3	FUSED DISCONNECT	30A/3P/1	3.5 KW	MDP-25	2,3
TU-11	208/3	FUSED DISCONNECT	30A/3P/1	3 KW	MDP-25	2,3
TU-12	208/3	FUSED DISCONNECT	30A/3P/1	2.5 KW	MDP-25	2,3
TU-13	208/3	FUSED DISCONNECT	30A/3P/1	3.5 KW	MDP-25	2,3
EUH-1	208/3	BY DIV 23	BY DIV 23	5 KW	RP-7	4
FP-01	208/3	FUSED DISCONNECT	30A/3P/1	2 KW	MDP-19	2,3
FP-02	208/3	FUSED DISCONNECT	30A/3P/1	4.5 KW	MDP-19	2,3
WH-1	208/3	FUSED DISCONNECT	30A/3P/1	4.5 KW	RP-46	2
RCP (WH-1)	120/1	MOTOR RATED SWITCH	---	---	RP-58	1

NOTES:

1. WIRE THROUGH MOTOR RATED SWITCH MOUNTED ON OR ADJACENT TO UNIT.
2. MOUNT DISCONNECT ADJACENT TO DEVICE IN LOCATION WITH REQUIRED NEC CLEARANCES.
3. PROVIDE WIRING AS NOTED IN DETAIL 2/E401.
4. BUILT IN DISCONNECT.

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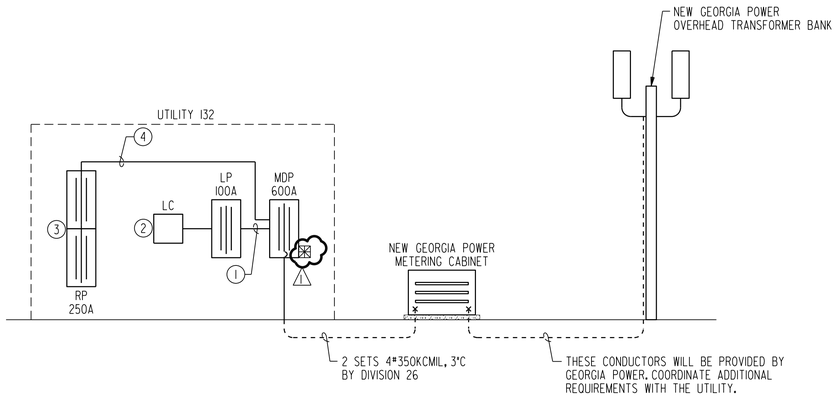
FLOOR PLAN - SYSTEMS/ HVAC POWER

PROJECT #	16020MACSEN
DATE	4/19/2017
DRAWN BY	JCW
CHECKED BY	TWT

E401

SCALE AS SHOWN

Permit Set

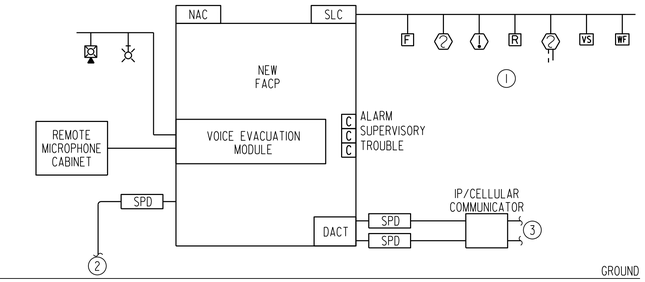


1 POWER RISER

NOT TO SCALE

NOTES: (DETAIL 1 ONLY)

1. PROVIDE 4#1 AWG, 1#6G, 2"C.
2. 8 RELAY LIGHTING PANEL BASED ON THE LC&D 2400.
3. THIS IS AN 84 POLE, SINGLE WIDTH PANEL.
4. PROVIDE 4#250 KCMIL, 1#4G, 2-1/2"C.



2 FIRE ALARM RISER

NOT TO SCALE

NOTES: (DETAIL 2 ONLY)

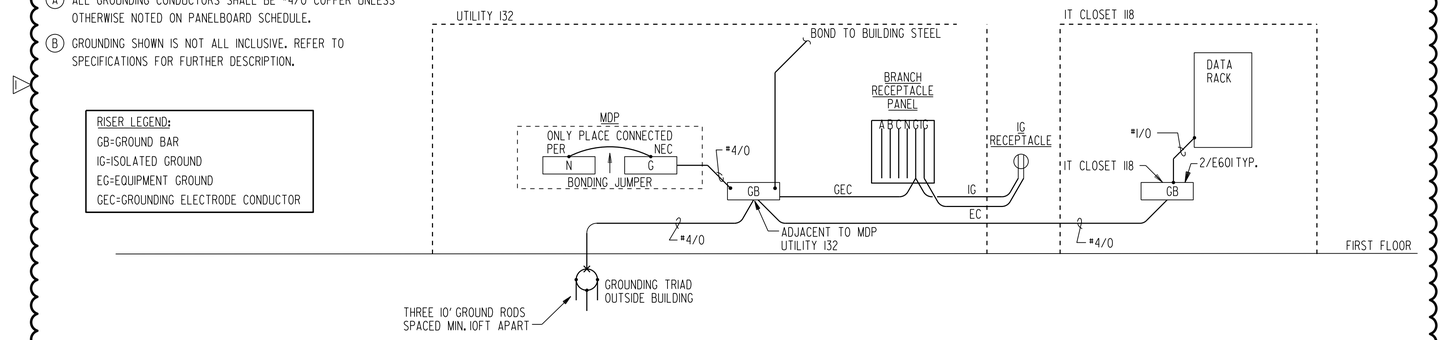
1. RISER IS SHOWN TO INDICATE DESIGN INTENT ONLY. SEE PLANS FOR DEVICE COUNT.
2. TO 120V CIRCUIT.
3. DUAL PATH REPORTING TO OWNER SPECIFIED AGENCY.

GENERAL NOTES: (THIS SHEET ONLY)

A. ALL GROUNDING CONDUCTORS SHALL BE #4/0 COPPER UNLESS OTHERWISE NOTED ON PANELBOARD SCHEDULE.

B. GROUNDING SHOWN IS NOT ALL INCLUSIVE. REFER TO SPECIFICATIONS FOR FURTHER DESCRIPTION.

RISER LEGEND:
GB=GROUND BAR
IG=ISOLATED GROUND
EG=EQUIPMENT GROUND
GEC=GROUNDING ELECTRODE CONDUCTOR



3 GROUNDING RISER

NOT TO SCALE

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RISERS - ELECTRICAL

PROJECT #	16020MACSEN
DATE	4/19/2017
DRAWN BY	JCW
CHECKED BY	TWT

E701

SCALE AS SHOWN

Permit Set

208 / 120 volts 3 PH, NEW **PANEL MDP** MCB 600 AMPS
4 WIRE FED BY UTILITY TRANSFORMER SURFACE MOUNTED

CKT	TRIP	POLE	WIRE	CD.	SERVES	VOLT-AMPS	POLE	PHASE LOAD V.A. A	B	C	POLE	VOLT-AMPS	SERVES	CD.	WIRE	TRIP	POLE	CKT
1	100	3	SEE		PANEL LP	4000	1	4000			2		SPARE			80	3	2
			RISER			3000	3		3000		4							
						3000	5			3000	6							
7	250	3	SEE		PANEL RP	18679	7	18679			8		SPARE			40	3	8
			RISER			18201	9		18201		10							
						20065	11			20065	12							
13	200	3	3#3/0	2"	RTU-1	16044	13	16044			14		SPARE			60	3	14
			1#6G			16044	15		16044		16							
						16044	17			16044	18							
19	80	3	4#3	1-1/4"	TU-1,2,4,5,6, FP-01,02	6334	19	6334			20		SPARE			40	3	20
			1#8G		19 KW	6334	21		6334		22							
						6334	23			6334	24							
25	100	3	4#3	1-1/2"	TU-7,8,9,10,11,12,13	8000	25	8000			26		SPACE				3	26
			1#6G		24 KW	8000	27		8000		28							
						8000	29			8000	30							
31	20	3			SPARE	1355	31	1355			32		SPACE				3	32
						1355	33		1355		34							
						1355	35			1355	36							
37	80	3			SPARE	7110	37	7110			38		SURGE			30	3	38
						7110	39		7110		40							
						7110	41			7110	42							

Minimum KAIC: 65		A	B	C
	PANEL SECTION CONN V A	61522	60044	61908
	PANEL SECTION CONN AMPS	512	500	516
	MULTISECTION CONN V A	61522	60044	61908
	MULTISECTION CONN AMPS	512	500	516

LOCATION: UTILITY 132

NOTES
MAIN BREAKER SHALL BE 100% RATED.

208 / 120 volts 3 PH, NEW **PANEL LP** MLO 100 AMPS
4 WIRE FED BY PANEL MDP SURFACE MOUNTED

CKT	TRIP	POLE	WIRE	CD.	SERVES	VOLT-AMPS	POLE	PHASE LOAD V.A. A	B	C	POLE	VOLT-AMPS	SERVES	CD.	WIRE	TRIP	POLE	CKT
1	20	1	3#10	1/2"	EXTERIOR LIGHTS (C)	1000	1	1000			2		SPARE			20	1	2
3	20	1	3#10	1/2"	KITCHEN/ LIGHTS	1000	3		1000		4		SPARE			20	1	4
5	20	1	3#10	1/2"	CLASS RM LIGHTS	1000	5			1000	6		SPARE			20	1	6
7	20	1	3#10	1/2"	POTTERY LIGHTS	1000	7	1000			8		SPARE			20	1	8
9	20	1	3#10	1/2"	CORRIDOR LIGHTS (C)	1000	9		1000		10		SPARE			20	1	10
11	20	1	3#10	1/2"	EXERCISE LIGHTS	1000	11			1000	12		SPARE			20	1	12
13	20	1	3#10	1/2"	RECEPTION LIGHTS (C)	1000	13	1000			14		SPARE			20	1	14
15	20	1	3#10	1/2"	LOUNGE LIGHTS	1000	15		1000		16		SPARE			20	1	16
17	20	1	3#10	1/2"	MULTI-PURPOSE LIGHT	1000	17			1000	18		SPARE			20	1	18
19	20	1	3#10	1/2"	CARD PLAYING LIGHTS	1000	19	1000			20		SPARE			20	1	20
21	20	1			SPARE		21		0		22		SPARE			20	1	22
23	20	1			SPARE		23			0	24		SPARE			20	1	24
25	20	1			SPARE		25	0			26		SPARE			20	1	26
27	20	1			SPARE		27		0		28		SPARE			30	2	28
29	20	1			SPARE		29			0	30		SPARE					30
31	20	1			SPARE		31	0			32		SPARE			20	1	32
33	20	1			SPARE		33		0		34		SPARE			20	1	34
35	20	1			SPARE		35			0	36		SPARE			20	1	36
37	20	1			SPARE		37	0			38		SPARE			20	1	38
39	20	1			SPARE		39		0		40		SPARE			20	1	40
41	20	1			SPARE		41			0	42		SPARE			20	1	42

Minimum KAIC: 65		A	B	C
	PANEL SECTION CONN V A	4000	3000	3000
	PANEL SECTION CONN AMPS	33	25	25
	MULTISECTION CONN V A	4000	3000	3000
	MULTISECTION CONN AMPS	33	25	25

LOCATION: UTILITY 132

NOTES
CIRCUITS ROUTED THROUGH A CONTACTOR PANEL ARE SHOWN WITH A "C" AFTER THE DESIGNATION.

208 / 120 volts 3 PH, NEW **PANEL RP SEC 1** MLO 250 AMPS
4 WIRE FED BY PANEL MDP SURFACE MOUNTED

CKT	TRIP	POLE	WIRE	CD.	SERVES	VOLT-AMPS	POLE	PHASE LOAD V.A. A	B	C	POLE	VOLT-AMPS	SERVES	CD.	WIRE	TRIP	POLE	CKT
1	20	1	3#12	1/2"	EF-1	600	1	1600			2	1000	EXERCISE 105 EQUIP	1/2"	3#12	20	1	2
3	20	1	3#12	1/2"	EF-2	400	3		800		4	400	EXERCISE 105 AV REC	1/2"	4#12	20	1	4
5	20	1	3#12	1/2"	TU-03	500	5			1100	6	600	EXERCISE 105 REC	1/2"	3#12	20	1	6
7	25	3	3#10	3/4""	EUH-1	1667	7	2067			8	400	EXERCISE 105 REC	1/2"	3#12	20	1	8
			1#12G		5 KW	1667	9		2267		10	600	BILLIARDS 106 REC	1/2"	3#12	20	1	10
						1667	11			2367	12	700	CORRIDOR 114 REC	1/2"	3#12	20	1	12
13	20	1	3#12	1/2"	DIRECTOR 103 REC	1000	13	1400			14	400	RESTROOM REC	1/2"	3#12	20	1	14
15	20	1	3#12	1/2"	MANGER 104 REC	1000	15		1600		16	600	SEWING 111 REC	1/2"	3#12	20	1	16
17	20	1	3#12	1/2"	LOBBY 101 REC	600	17			1000	18	400	SEWING 111 REC	1/2"	3#12	20	1	18
19	20	1	3#12	1/2"	RECEPTION 102 REC	400	19	1200			20	800	SEWING 111 REC	1/2"	3#12	20	1	20
21	20	1	3#12	1/2"	RECEPTION 102 REC	600	21		1200		22	600	SEWING 111/ RM 112 REC	1/2"	3#12	20	1	22
23	20	1	3#12	1/2"	EXTERIOR REC	800	23			3020	24	2220	POTTERY 112 KILN	3/4"	3#8	40	2	24
25	20	1	3#12	1/2"	UTILITY 1321 REC	600	25	2820			26	2220			1#10G			
27	20	1	3#12	1/2"	CORRIDOR 127 REC	600	27		1300		28	700	POTTERY 112 EQUIP	1/2"	3#12	20	1	28
29	20	1	3#12	1/2"	A/V 128 REC	600	29			1300	30	700	POTTERY 112 EQUIP	1/2"	3#12	20	1	30
31	20	1	3#12	1/2"	MULTI 125 PROJ SCRN	700	31	1100			32	400	COMPUTER 116 TABLE	1/2"	3#12	20	1	32
33	20	1	3#12	1/2"	MULTI 125 REC	600	33		1000		34	400	COMPUTER 116 TABLE	1/2"	3#12	20	1	34
35	20	1	3#12	1/2"	MULTI 125 REC	800	35			1200	36	400	COMPUTER 116 TABLE	1/2"	3#12	20	1	36
37	20	1	3#12	1/2"	CARD 123 REC	800	37	1200			38	400	COMPUTER 116 TABLE	1/2"	3#12	20	1	38
39	20	1	3#12	1/2"	CORR 114 REC	600	39		1000		40	400	COMPUTER 116 TABLE	1/2"	3#12	20	1	40
41	20	1	3#12	1/2"	EXERCISE 105 EQUIP	1000	41			1400	42	400	COMPUTER 116 TABLE	1/2"	3#12	20	1	42

Minimum KAIC: 65		A	B	C
	PANEL SECTION CONN V A	11387	9167	11387
	PANEL SECTION CONN AMPS	95	76	95
	MULTISECTION CONN V A	18679	18201	20065
	MULTISECTION CONN AMPS	156	152	167

LOCATION: UTILITY 132

NOTES
PROVIDE WITH ISOLATED GROUND BAR.
WHERE 4 CONDUCTORS ARE SHOWN FOR BRANCH WIRING, THE FOURTH IS AN ISOLATED GROUND.
THIS IS A SINGLE WIDTH 84 POLE PANEL, TOP SECTION.

208 / 120 volts 3 PH, NEW **PANEL RP SEC 2** MLO 250 AMPS
4 WIRE FED BY PANEL MDP SURFACE MOUNTED

CKT	TRIP	POLE	WIRE	CD.	SERVES	VOLT-AMPS	POLE	PHASE LOAD V.A. A	B	C	POLE	VOLT-AMPS	SERVES	CD.	WIRE	TRIP	POLE	CKT
43	20	1	3#12	1/2"	IT CLOSET 118 REC	400	43	800			44	400	KITCHEN 131 REC	1/2"	3#12	20	1	44
45	20	1	3#12	1/2"	COMPUTER 116 REC	600	45		2100		46	1500	WH-1	1/2"	3#12	20	3	46
47	20	1	3#12	1/2"	COMPUTER 116 REC	400	47			1900	48	1500			1#12G			
49	20	1	3#12	1/2"	CLASSROOM 119 REC	600	49	2100			50	1500						
51	20	1	3#12	1/2"	CLASSROOM 119 REC	800	51		2150		52	1350	KITCHEN 131 OVEN	1/2"	3#12	20	2	52
53	20	1	3#12	1/2"	LOUNGE 120 REC	600	53			1950	54	1350			1#12G			54
55	20	1	3#12	1/2"	LOUNGE 120 REC	600	55	1300			56	700	UTILITY 132 FACP	1/2"	3#12	20	1	56
57	20	1	3#12	1/2"	LOUNGE 120 EQUIP	1000	57		1200		58	200	RCP (WH-1)	1/2"	3#12	20	1	58
59	20	1	3#12	1/2"	LOUNGE 120 EQUIP	1000	59			1200	60	200	IRRIGATION SYSTEM	1/2"	3#12	20	1	60
61	20	1	3#12	1/2"	LOUNGE 120 FRIDGE	700	61	700			62		SPARE			20	1	62
63	20	2	2#12	1/2"	KITCHEN 131 WARMING	1092	63		1092		64		SPARE			20	1	64
			1#12G			1092	65			1092	66		SPARE			20	1	66
67	20	2	2#12	1/2"	KITCHEN 131 WARMING	1092	67	1092			68		SPARE			20	1	68
			1#12G			1092	69		1092		70		SPARE			20	1	70
71	20	1	3#12	1/2"	KITCHEN 131 FREEZER	700	71			700	72		SPARE			20	1	72
73	20	1	3#12	1/2"	KITCHEN 131 FREEZER	700	73	700			74		SPARE			20	1	74
75	20	1	3#12	1/2"	KITCHEN 131 DISHWASH	700	75		700		76		SPARE			20	1	76
77	15	1	3#12	1/2"	KITCHEN 131 ICE MACH	1236	77			1236	78		SPARE			20	1	78
79	20	1	3#12	1/2"	KITCHEN 131 REC	600	79	600			80		SPARE			20	1	80
81	20	1	3#12	1/2"	DOOR 101 POWER	700	81		700		82		SPARE			20	1	82
83	20	1	3#12	1/2"	KITCHEN 131 REC	600	83			600	84		SPARE			20	1	84

Minimum KAIC: 65		A	B	C
	PANEL SECTION CONN V A	7292	9034	8678
	PANEL SECTION CONN AMPS	61	75	72
	MULTISECTION CONN V A	18679	18201	20065
	MULTISECTION CONN AMPS	156	152	167

LOCATION: UTILITY 132

NOTES
PROVIDE WITH ISOLATED GROUND BAR.
WHERE 4 CONDUCTORS ARE SHOWN FOR BRANCH WIRING, THE FOURTH IS AN ISOLATED GROUND.
THIS IS A SINGLE WIDTH 84 POLE PANEL, BOTTOM SECTION.

Permit Set

GEORGIA REGISTERED NO. 25367 PROFESSIONAL ENGINEER TIMOTHY W. TROTTER

No.	DESCRIPTION	DATE
1	REVISION 1	5-15-17

MACON-BIBB COUNTY
SENIOR CENTER
WILLIE SMOKIE GLOVER DRIVE
MACON, GEORGIA 31201

sizemoregroup
1700 COMMERCE DRIVE, NW
ATLANTA, GEORGIA 30318
T: 404 605 0690
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PANELBOARD SCHEDULE - ELECTRICAL

PROJECT # **16020MACSEN**
DATE **4/19/2017**
DRAWN BY **JCW**
CHECKED BY **TWT**

E801

SCALE AS SHOWN

Permit Set

SECTION 09 9000

PAINTING AND COATING

PART 1 - GENERAL

1.1 SUMMARY:

A. Work of this section includes:
1. Touching up of shop-applied prime coats.
2. Preparation of surfaces to receive finishes.
3. Painting, staining or otherwise finishing of surfaces, except as otherwise indicated.

B. Related work specified elsewhere:
1. Shop-applied primer coats.
2. Joint sealants.
3. Wall coverings.
4. Special finishes.
5. Piping identification.
6. Prefinished items.

1.2 DEFINITIONS:

A. Properly painted surface: The painting contractor shall produce properly painted surfaces as herein defined, and shall obtain Architect’s approval of all surfaces.
1. A "properly painted surface" is defined as uniform in appearance, color, texture, hiding and sheen.
2. Surfaces shall be free of foreign material, lumps, skins, runs, sags, holidays, misses, or insufficient coverage.
3. Surfaces shall be free of drips, spatters, spills or overspray caused by the painting contractor's workforce.
4. To determine whether a surface has been "properly painted", the surface shall be examined without magnification at a distance of thirty-nine (39) inches or one (1) meter, or more, under finished lighting conditions and from a normal viewing position.

B. Standard coating terms: As defined in ASTM D16-14.

C. Commercial: Painter grade products.

D. DFT: Dry film thickness of the coating.

E. Premium: Best quality product (top of the line):

F. VOC: Volatile Organic Compounds found in primers, paints, sealers and stains. VOC levels are designated in grams per liter (g/L).

1.3 PERFORMANCE REQUIREMENTS:

A. DFT for each primer, paint, sealer and stain shall be as recommended by product manufacturer’s product data.

1.4 SUBMITTALS:

A. Product data:
1. Submit complete list of products proposed for use at least 30 days prior to commencement of painting work.
2. Indicate manufacturer, brand name, quality, type, and sheen for each type of paint and for each surface to be finished. Indicate VOC rating and compliance with applicable regulations.
3. Indicate manufacturer's instructions regarding mixing, surface preparation and application. Include application rates, film thickness and required primers.
4. Intent of Contractor to use products specified does not relieve him from responsibility of submitting product list.

B. Card stock brush-outs: Prepare two sets of color coat brush-outs for each paint and stain color and sheen scheduled, applying actual finish color coat to standard sample card stock, minimum 80 sq. in. size.

C. Substrate brush-outs:
1. In addition to color coat brush-outs, submit one actual brush-out sample application for each paint type, color and sheen as applicable to the following substrates.
2. Apply complete finish system in the number of coats specified, to the actual substrate material or simulated material indicated; allow 1" offset of each successive coat along one edge to illustrate successive applications.
a. Gypsum board: Apply over gypsum board, 1'-0" by 1'-0" size, edges taped and sanded.
b. Metals: Apply over hardboard, 1'-0" by 1'-0" size.
c. Painted wood: Wood stock typical of type, color and cut used on the project, minimum 6" wide by 1'-0" long.

1.5 QUALITY ASSURANCE:

A. Applicable standards:
1. American Coatings Association (ACA), Gloss Standard.
2. ASTM International (ASTM), as referenced herein.
3. American National Standards Institute (ANSI) Performance Standards.
4. Environmental Protection Agency (EPA), volatile organic compounds (VOC) standards as required by local codes and regulations.
5. Master Paint Institute (MPI) established paint categories and standards.
6. Occupational Safety & Health Act (OSHA) Safety Standards.
7. Ozone Transmission Commission (OTC) established levels of Volatile Organic Compounds.
8. Paint Decorating Contractors of America (PDCA) Application Standard, P1 Standard and P5 Standard.

1.6 DELIVERY, STORAGE AND HANDLING:

A. Delivery: Deliver materials to project site ready-mixed in original containers with labels intact; labels bearing manufacturer's name, paint type, color and recommended installation and reducing procedures.

B. Storage and handling:
1. Store materials in location acceptable to Architect.
2. Coating materials and thinners stored on site shall be kept in a clean, secure and climate controlled area.

3. Labels shall remain on containers used to hold primers, paints or stains while on site. Containers without labels shall be disposed of.
4. Product name, number, health and safety information, and precautions shall be legible at all times during storage and use.
5. Close containers at end of day's work. Leave no materials open.

C. Waste management and disposal:
1. Disposal containers for recycled materials must be established on site.
2. Dispose of rags containing solvent, daily.
3. Dispose of hazardous coatings in accord with state, county and local regulations for hazardous waste disposal.

1.7 PROJECT/SITE CONDITIONS:

A. Environmental requirements:
1. Comply with manufacturer's product data as to environmental conditions under which materials may be applied.
2. Apply no materials in spaces where dust is being generated.
3. Comply with applicable VOC regulations.

B. Protection: Cover finished work of other trades and surfaces not being painted concurrently and prefinished items.

C. Safety precautions:
1. Provide temporary fire protection equipment in materials storage area.
2. Prohibit smoking in storage area.

1.8 MAINTENANCE:

A. Extra materials:
1. Provide one gallon of each type and color of paint and stain in full unused cans.
2. Cans shall be marked with color name, number and type of paint and stain.

PART 2 - PRODUCTS

2.1 MANUFACTURERS:

A. Acceptable manufacturers: Except as otherwise noted, products specified as a standard of quality are manufactured by PPG Paints. Products of the following manufacturers similar in type and quality are acceptable for use, subject to approval of product list:
1. PPG Paints.
2. Benjamin Moore Co.
3. Sherwin-Williams Co.

B. Where products other than those of the manufacturer listed as the standard of quality are specified in Painting Schedule, such products have been selected to achieve specific results and substitutions will be allowed only in accord with Product Substitution Procedures section.

2.2 PAINTING MATERIALS:

A. Miscellaneous materials:
1. Paint thinners and tints shall be products of same manufacturer as paints or approved by him for use with his products.
2. Shellac, turpentine, patching compounds and similar materials required for execution of work shall be pure, best quality products.

B. Paint and stain colors shall be as indicated on Color Schedule with final approval based on brush-out submittal.

PART 3 - EXECUTION

3.1 PREPARATION:

A. Surfaces to receive finishes shall be dry and free of debris, oils, dust or other deleterious materials.

B. Where finish materials abut or are abutted by dissimilar materials, caulk joints in accord with Joint Sealants section.

C. Gypsum board:
1. Fill narrow, shallow cracks and small holes with patching compound. Allow to dry and sand smooth without raising nap of gypsum board paper.
2. Gypsum board shall be finished as specified in Gypsum Board section prior to painting.

D. Galvanized metals:
1. Test for passivator or stabilizer using copper sulfate solution (20 grams of copper sulfate in one liter of water). If passivator or stabilizer is present, remove by brush blasting, sanding or chemical etching.
2. Wash with xylol to remove grease, oil and contaminants. Wipe dry with clean cloth.

E. Aluminum:
1. Sand or scrape to remove oxides.
2. Wash with xylol to remove grease, oil and contaminants. Wipe dry with clean cloth.

F. Ferrous metals:
1. Wire-brush or sandpaper to remove rust and mill scale.
2. Solvent-clean with xylol to remove grease, oil and contaminants. Wipe dry with clean cloth.

G. Stucco:
1. Allow surfaces to cure a minimum of 30 days before applying first coat of paint.
2. Surfaces shall be dry prior to applying first paint coat. Moisture level shall be acceptable to paint manufacturer when tested by a moisture meter.
3. Perform pH testing to determine alkalinity of substrates prior to painting application; comply with paint manufacturer's product data.
4. Fill narrow, shallow cracks and small holes with patching plaster. Allow to dry and sand smooth.
5. Cut out map cracks and repair to same plane and finish as original work.

3.2 APPLICATION:

A. Apply paint only when moisture content of surfaces is within limits recommended in product data. Apply paint materials using clean brushes, rollers or spraying equipment.

B. Apply materials at rate not exceeding that recommended in product data for surface being painted, less ten percent for losses.

C. Comply with product data for drying time between coats.

D. Sand and dust between coats to remove defects visible from a distance of 5'-0".

E. Finish coats shall be smooth, free of brush marks, streaks, laps or pile-up of paint, skipped or missed areas. Do not apply additional coats until completed coat has been observed by Architect. Only these coats of paint will be considered in determining number of coats applied.

F. Make edges of paint adjoining other materials or colors clean and sharp without overlapping.

G. Primer coats may be omitted for surfaces specified to receive factory-applied primer, if primer is compatible with finish coats. If primer coats are not compatible, substitute a bond coat as recommended by paint manufacturer for specified primer coat.

H. Where two-coat finish is specified, prime coat shall be tinted to approximate finish color.

I. Where portion of finish on gypsum board partition is damaged or unacceptable, refinish entire surface of partition.

J. Seal tops and bottoms of interior doors with prime coat only; side edges same as faces.

K. Finish top, bottom and side edges of exterior doors same as faces.

L. Paint inside of ductwork flat black for entire area visible through ceiling openings. Paint underside of ductwork and other above-ceiling items flat black for entire area visible through ceiling openings.

M. Paint exposed piping and ductwork in painted spaces same as adjacent wall surfaces.

N. Paint exposed grilles and registers in public spaces.

O. Remove and protect hardware, accessories, device plates, lighting fixtures, factory-finished work and similar items, or provide in-place protection. Upon completion of each space, replace removed items.

P. Unless otherwise indicated, paint exposed structural system.

Q. Unless otherwise indicated, paint construction on roof top, including prefinished mechanical and electrical equipment.

R. Unless otherwise indicated, paint ground mounted mechanical, plumbing and electrical equipment, including prefinished equipment.

S. The following surfaces do not require painting:
1. Face brick.
2. Prefinished and factory-finished surfaces and items, except where indicated otherwise.
3. Concealed ductwork, conduit and piping.

3.3 EXTERIOR PAINT SCHEDULE:

A. Mineral-fiber-reinforced cement panels: Provide the following finish systems over exterior, mineral-fiber-reinforced cement panels:
1. Semi-gloss acrylic-enamel finish:
a. First coat: PPG; 4-603 Perma-Crete Int/ Ext Alkali Resistant Primer (88 g/L VOC); 1.2 to 1.5 Dry Mils.
b. Second coat: PPG; 6-900XI Series SpeedHide Exterior House and Trim Semi-gloss Acrylic Latex (<50 g/L VOC); 1.4 Dry Mils.
c. Third coat: PPG; 6-900XI Series SpeedHide Exterior House and Trim Semi-gloss Acrylic Latex (<50 g/L VOC); 1.4 Dry Mils.

B. Ferrous metal: Provide the following finish systems over exterior ferrous metal. Primer is not required on shop-primed items.
1. Semi-gloss acrylic-enamel finish:
a. First coat: PPG; 90-712 Series Pitt-Tech Int/Ext Industrial DTM Primer/Finish Enamel (123 g/L VOC compliant as anti-corrosive product); 2.0 to 3.0 Dry Mils.
b. Second coat: PPG; 90-1210 Series Pitt-Tech Plus Int/Ext Semi-Gloss DTM Industrial Enamels (90 g/L VOC compliant as anti-corrosive product); 2.0 to 4.0 Dry Mils.
c. Third coat: PPG; 90-1210 Series Pitt-Tech Plus Int/Ext Semi-Gloss DTM Industrial Enamels (90 g/L VOC compliant as anti-corrosive product); 2.0 to 4.0 Dry Mils.

C. Zinc-coated metal: Provide the following finish systems over exterior zinc-coated metal surfaces:
1. Semi-gloss acrylic-enamel finish:
a. First coat: PPG; 90-712 Series Pitt-Tech Int/Ext Industrial DTM Primer/Finish Enamel (123 g/L VOC compliant as anti-corrosive product); 2.0 to 3.0 Dry Mils.
b. Second coat: PPG; 90-1210 Series Pitt-Tech Plus Int/Ext Semi-Gloss DTM Industrial Enamels (90 g/L VOC compliant as anti-corrosive product); 2.0 to 4.0 Dry Mils.
c. Third coat: PPG; 90-1210 Series Pitt-Tech Plus Int/Ext Semi-Gloss DTM Industrial Enamels (90 g/L VOC compliant as anti-corrosive product); 2.0 to 4.0 Dry Mils.

D. Aluminum: Provide the following finish systems over exterior aluminum surfaces:
1. Semi-gloss acrylic-enamel finish:
a. First coat: PPG; 90-712 Series Pitt-Tech Int/Ext Industrial DTM Primer/Finish Enamel (123 g/L VOC compliant as anti-corrosive product); 2.0 to 3.0 Dry Mils.
b. Second coat: PPG; 90-1210 Series Pitt-Tech Plus Int/Ext Semi-Gloss DTM Industrial Enamels (90 g/L VOC compliant as anti-corrosive product); 2.0 to 4.0 Dry Mils.
c. Third coat: PPG; 90-1210 Series Pitt-Tech Plus Int/Ext Semi-Gloss DTM Industrial Enamels (90 g/L VOC compliant as anti-corrosive product); 2.0 to 4.0 Dry Mils.

E. Stucco ***and glass fiber reinforced concrete***: Provide the following finish systems over exterior concrete, stucco, and brick masonry substrates.
   1. Flat acrylic finish:
      a. First coat: PPG; 4-603 Perma-Crete Int/ Ext Alkali Resistant Primer (88 g/L VOC); 1.2 to 1.5 Dry Mils.
      b. Second coat: PPG; 6-610XI Series SpeedHide Exterior Flat Acrylic Latex (<50 g/L VOC); 1.5 Dry Mils.
      c. Third coat: PPG; 6-610XI Series SpeedHide Exterior Flat Acrylic Latex (<50 g/L VOC); 1.5 Dry Mils.

3.4 INTERIOR PAINT SCHEDULE:

A. Gypsum board: Provide the following finish systems over interior gypsum board surfaces:
   1. Flat acrylic finish:
      a. First coat: PPG; 6-2 SPEEDHIDE Interior Latex Sealer Quick-Drying (<50 g/L VOC); 1.0 Dry Mils.
      b. Second coat: PPG; 6-70 Series SpeedHide Interior Wall Flat Latex (<50 g/L VOC); 1.3 Dry Mils.
      c. Third coat: PPG; 6-70 Series SpeedHide Interior Wall Flat Latex (<50 g/L VOC); 1.3 Dry Mils.
   2. Low-luster acrylic finish:
      a. First coat: PPG; 6-2 SPEEDHIDE Interior Latex Sealer Quick-Drying (<50 g/L VOC); 1.0 Dry Mils.
      b. Second coat: PPG; 6-411 Series SpeedHide Interior Enamel Eggshell Latex (<50 g/L VOC); 1.5 Dry Mils.
      c. Third coat: PPG; 6-411 Series SpeedHide Interior Enamel Eggshell Latex (<50 g/L VOC); 1.5 Dry Mils.

B. Ferrous metal: Provide the following finish systems over ferrous metal:
   1. Semi-gloss acrylic-enamel finish:
      a. First coat: PPG; 90-712 Series Pitt-Tech Int/Ext Industrial DTM Primer/Finish Enamel (123 g/L VOC compliant as anti-corrosive product); 2.0 to 3.0 Dry Mils.
      b. Second coat: PPG; 6-500 Series SpeedHide Interior Semi-gloss Acrylic Latex (<50 g/L VOC); 1.5 Dry Mils.
      c. Third coat: PPG; 6-500 Series SpeedHide Interior Semi-gloss Acrylic Latex (<50 g/L VOC); 1.5 Dry Mils.

C. Zinc-coated metal: Provide the following finish systems over interior zinc-coated metal surfaces:
   1. Semi-gloss acrylic-enamel finish:
      a. First coat: PPG; 90-712 Series Pitt-Tech Int/Ext Industrial DTM Primer/Finish Enamel (123 g/L VOC compliant as anti-corrosive product); 2.0 to 3.0 Dry Mils.
      b. Second coat: PPG; 6-500 Series SpeedHide Interior Semi-gloss Acrylic Latex (<50 g/L VOC); 1.5 Dry Mils.
      c. Third coat: PPG; 6-500 Series SpeedHide Interior Semi-gloss Acrylic Latex (<50 g/L VOC); 1.5 Dry Mils.

D. Aluminum: Provide the following finish systems over interior zinc-coated metal surfaces:
   1. Semi-gloss acrylic-enamel finish:
      a. First coat: PPG; 90-712 Series Pitt-Tech Int/Ext Industrial DTM Primer/Finish Enamel (123 g/L VOC compliant as anti-corrosive product); 2.0 to 3.0 Dry Mils.
      b. Second coat: PPG; 6-500 Series SpeedHide Interior Semi-gloss Acrylic Latex (<50 g/L VOC); 1.5 Dry Mils.
      c. Third coat: PPG; 6-500 Series SpeedHide Interior Semi-gloss Acrylic Latex (<50 g/L VOC); 1.5 Dry Mils.

End of Section

SECTION 12 2124

MANUAL ROLLER SHADE SYSTEM

PART 1 – GENERAL

1.1 SECTION INCLUDES

A. Provide manually operated, sunscreen and blackout roller shades as applicable.

B. Related Sections:

1. Division 09 - Gypsum Board Assemblies: Coordination with gypsum board assemblies for blocking, installation of shade pockets, closures and related accessories.

2. Division 09 - Acoustical Ceilings: Coordination with acoustical ceiling systems for blocking, installation of shade pockets, closures and related accessories.

1.2 SUBMITTALS

A. Bid Submittal, Information Required with Submittal of Bid: In order to evaluate proposals for integrated lighting or AV control and window shade systems, the Architect requires the following information be submitted prior to the award of the system.

1. Bid proposal shall be accompanied with a document that notes all deviations from these specifications on a line-by-line basis.

2. Bid shall confirm that roller shade EDU's and all related controls shall be integrated into a compatible control system as specified herein.

3. Bid shall include separate line items listing the control/interface components required for building automation systems and building management systems (BAS/BMS), daylighting, audiovisual, and/or central integration systems. Roller shade controls manufacturer shall list all components included in their bid and shall include a letter stating that they shall be financially responsible for any change orders and/or back charges required by the BAS/BMS, audiovisual, or lighting control systems contractors to interface with the motorized roller shade system.

B. Product Data: Manufacturer's data sheets on each product to be used, including:

1. Preparation instructions and recommendations.

2. Styles, material descriptions, dimensions of individual components, profiles, features, finishes and operating instructions.

3. Storage and handling requirements and recommendations.

4. Mounting details and installation methods.

5. Typical wiring diagrams including integration of EDU controllers with building management system, audiovisual and lighting control systems as applicable.

C. Shop Drawings: Product details, installation details, operational clearances and relationship to adjacent work.

D. Window Treatment Schedule: For all roller shades. Use same room designations as indicated on the Drawings and include opening sizes and key to typical mounting details.

E. Verification Samples: For each finish product specified, one complete set of shade components, unassembled, demonstrating compliance with specified requirements. Shade

cloth samples and aluminum finish sample as selected. Mark face of material to indicate interior faces.

F. Maintenance Data: Methods for maintaining roller shades, precautions regarding cleaning materials and methods, instructions for operating hardware and controls.

G. Warranty: Provide manufacturer's warranty documents as specified in this Section.

1.3 QUALITY ASSURANCE

A. Manufacturer Qualifications: Obtain roller shades system through one source from a single manufacturer with a minimum of ten years experience and minimum of five projects of similar scope and size in manufacturing products comparable to those specified in this section. This includes but is not limited to all required extrusions, accessories, controls and fabricated roller shades or else all stated and published warranties may be void.

B. Installer Qualifications: Engage an installer, which shall assume responsibility for installation of all system components, with the following qualifications.

1. Installer for roller shade system shall be trained and certified by the manufacturer with a minimum of ten years experience in installing products comparable to those specified in this section.

2. Recycling Characteristics: Provide documentation that the shade cloth can, and is part of a closed loop of perpetual use and not be required to be down cycled, incinerated or otherwise thrown away. Scrap material can be sent back to the mill for reprocessing and recycling into the same quality yarn and woven into new material, without down cycling. Certify that this process is currently underway and will be utilized for this project.

3. Perpetual Use Certification: Certify that at the end of the useful life of the shade cloth, that the material can be sent back to the manufacturer for recapture as part of a closed loop of perpetual use and that the material can and will be reconstituted into new yarn, for weaving into new shade cloth. Provide information on each shade band indicating that the shade band can be sent back to the manufacturer for this purpose.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Deliver components in factory-labeled packages, marked with manufacturer and product name, fire-test-response characteristics, and location of installation using same room designations indicated on Drawings and in the Window Treatment Schedule.

1.5 PROJECT CONDITIONS

A. Environmental Limitations: Install roller shades after finish work including painting is complete and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

1.6 WARRANTY

A. Warranty: Provide manufacturer's standard warranties, including the following:

1. Roller Shade Hardware, and Shadecloth: Manufacturer's standard non-depreciating twenty-five year limited warranty.

2. Roller Shade Installation: One year from date of Substantial Completion, not including scaffolding, lifts or other means to access to the work above 12' Feet AFF, which are

the responsibility of others.

PART 2 – PRODUCTS

2.1 MANUFACTURER

A. Basis of Design Manufacturer for Window Shade System: Products by MechoSystems; 42-03 35th Street, Long Island City, NY 11101. Tel: (718) 729-2020 ext 1901; Mr. Glen Berman. Email: glenb@MechoSystems.com.

2.2 SHADE BANDS

A. Shade Bands: Construction of shade band includes the fabric, the enclosed hem weight, shade roller tube, and the attachment of the shade band to the roller tube. Sewn hems and open hem pockets are not acceptable.

1. Concealed Hembar: Shall be continuous extruded aluminum for entire width of shade band and with the following characteristics:

a. Hembar shall be heat sealed on all sides.

b. Open ends shall not be accepted.

2. Shade Band and Shade Roller Attachment:

a. Use extruded aluminum shade roller tube of a diameter and wall thickness required to support shade fabric without excessive deflection.

b. Provide for positive mechanical attachment of shade band to roller tube; shade band shall be made removable / replaceable with a “snap-on” snap-off” spline mounting, without having to remove shade roller from shade brackets.

c. Mounting Spline shall not require use of adhesives, adhesive tapes, staples, and/or rivets.

d. Any method of attaching shade band to roller tube that requires the use of: adhesive, adhesive tapes, staples, and/or rivets, does not meet the performance requirements of this specification and shall not be accepted.

2.3 ROLLER SHADE FABRICATION

A. Fabricate shade cloth to hang flat without buckling or distortion. Fabricate with heat-sealed trimmed edges to hang straight without curling or raveling. Fabricate unguided shadecloth to roll true and straight without shifting sideways more than 1/8 inch (3.18 mm) in either direction per 8 feet (2438 mm) of shade height due to warp distortion or weave design.

B. Provide battens in standard shades as required to assure proper tracking and uniform rolling of the shade bands. Contractor shall be responsible for assuring the width-to-height (W:H) ratios shall not exceed manufacturer’s standards or, in absence of such standards, shall be responsible for establishing appropriate standards to assure proper tracking and rolling of the shadecloth within specified standards. Battens shall be roll-formed stainless steel or tempered steel, as required.

C. For railroaded shade bands, provide seams in railroaded multi-width shade bands as required to meet size requirements and in accordance with seam alignment as acceptable to Architect. Seams shall be properly located. Furnish battens in place of plain seams when the width, height, or weight of the shade exceeds manufacturer’s standards. In absence of such standards, assure proper use of seams or battens as required to, and

assure the proper tracking of the railroaded multi-width shade bands

D. Provide battens for railroaded shades when width-to-height (W:H) ratios meet or exceed manufacturer's standards. In absence of manufacturer's standards, be responsible for proper use and placement of battens to assure proper tracking and roll of shade bands.

E. Blackout shade bands, when used in side channels, shall have horizontally mounted, roll-formed stainless steel or tempered-steel battens not more than 3 feet (115 mm) on center extending fully into the side channels. Battens shall be concealed in an integrally colored fabric to match the inside and outside colors of the shade band, in accordance with manufacturer's published standards for spacing and requirements.

1. Battens shall be roll formed of stainless steel or tempered steel and concave to match the contour of the roller tube.

2.4 ROLLER SHADE COMPONENTS

A. Access and Material Requirements:

1. Provide shade hardware allowing for the removal of shade roller tube from brackets without removing hardware from opening and without requiring end or center supports to be removed.
2. Provide shade hardware that allows for removal and re-mounting of the shade bands without having to remove the shade tube, drive or operating support brackets.
3. Use only Delran engineered plastics by DuPont for all plastic components of shade hardware. Styrene based plastics, and /or polyester, or reinforced polyester shall not be accepted.

B. Manual Operated Chain Drive Hardware and Brackets:

1. Provide for universal, regular and offset drive capacity, allowing drive chain to fall at front, rear or non-offset for all shade drive end brackets. Universal offset shall be adjustable for future change.
2. Provide hardware capable for installation of a removable fascia, for both regular and/or reverse roll, which shall be installed without exposed fastening devices of any kind.
3. Provide shade hardware system that allows for removable regular and/or reverse roll fascias to be mounted continuously across two or more shade bands without requiring exposed fasteners of any kind.
4. Provide shade hardware system that allows for operation of multiple shade bands (multi-banded shades) by a single chain operator, subject to manufacturer's design criteria. Connectors shall be offset to assure alignment from the first to the last shade band.
5. Provide shade hardware system that allows multi-banded manually operated shades to be capable of smooth operation when the axis is offset a maximum of 6 degrees on each side of the plane perpendicular to the radial line of the curve, for a 12 degrees total offset.
6. Provide positive mechanical engagement of drive mechanism to shade roller tube. Friction fit connectors for drive mechanism connection to shade roller tube are not acceptable.
7. Provide shade hardware constructed of minimum 1/8-inch (3.18 mm) thick plated steel or heavier as required to support 150 percent of the full weight of each shade.

8. Drive Bracket / Brake Assembly:

   a. MechoShade Drive Bracket model M5 shall be fully integrated with all MechoShade accessories, including, but not limited to: SnapLoc fascia, room darkening side / sill channels, center supports and connectors for multi-banded shades.

   b. M5 drive sprocket and brake assembly shall rotate and be supported on a welded 3/8 inch (9.525 mm) steel pin.

   c. The brake shall be an over running clutch design which disengages to 90 percent during the raising and lowering of a shade. The brake shall withstand a pull force of 50 lbs. (22 kg) in the stopped position.

   d. The braking mechanism shall be applied to an oil-impregnated hub on to which the brake system is mounted. The oil impregnated hub design includes an articulated brake assembly, which assures a smooth, non-jerky operation in raising and lowering the shades. The assembly shall be permanently lubricated. Products that require externally applied lubrication and or not permanently lubricated are not acceptable.

   e. The entire M5 assembly shall be fully mounted on the steel support bracket, and fully independent of the shade tube assembly, which may be removed and reinstalled without effecting the roller shade limit adjustments.

9. Drive Chain: #10 qualified stainless steel chain rated to 90 lb. (41 kg) minimum breaking strength. Nickel plate chain shall not be accepted.

2.5 ROLLER SHADE SCHEDULE

A. Roller Shade Schedule: Refer to the Drawings for locations.

1. Shade Type WT-1: Manual operating, chain drive, sunscreen roller shades in all exterior windows of rooms and spaces shown on the Drawings.

   a. Fascias.

2.6 SHADECLOTH

A. Visually Transparent Single-Fabric Shadecloth: MechoSystems, ThermoVeil® group, single thickness, opaque non-raveling 0.030-inch (0.762 mm) thick vinyl fabric, woven from 0.018-inch (0.457 mm) diameter extruded vinyl yarn comprising of 21 percent polyester and 79 percent reinforced vinyl, in colors selected from manufacturer's available range.

1. Open Linear Weave: "1800 series", 15 percent open, linear-weave pattern. VLT_range ___to___percent.

2. Color: Selected from manufacturer's standard colors.

3. Basket Weave: 5 percent open 2x2 basket weave

4. Dense Basket Weave: 3 percent open 2x2 basket weave

5. Color: Selected from manufacturer's standard colors.

6. Warranty: 10-Year Limited.

B. Fascia:

1. Continuous removable extruded aluminum fascia that attaches to shade mounting brackets without the use of adhesives, magnetic strips, or exposed fasteners.

2. Fascia shall be able to be installed across two or more shade bands in one piece.

3. Fascia shall fully conceal brackets, shade roller and fabric on the tube.

4. Provide bracket / fascia end caps where mounting conditions expose outside of roller shade brackets.

PART 3 – EXECUTION

3.1 EXAMINATION

A. Do not begin installation until substrates have been properly prepared. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

A. Clean surfaces thoroughly prior to installation. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION OF ROLLER SHADES

A. Contractor Furnish and Install Responsibilities:

1. Window Covering Contractor (WC) shall provide an on site, Project Manager, and shall be present for all related jobsite scheduling meetings.
2. WC shall supervise the roller shade installation, and setting of intermediate stops of all shades to assure the alignment of the shade bands within a single EDU group, which shall not exceed +/- 0.125 inches (3.175mm), and to assure the alignment between EDU groups, which shall not exceed +/- 0.25 inches (6.35mm).
3. WC shall be responsible for field inspection on an area-by- area and floor-by-floor basis during construction to confirm proper mounting conditions per approved shop drawings.
4. Verification of Conditions: examine the areas to receive the work and the conditions under which the work would be performed and notify General Contractor and Owner of conditions detrimental to the proper and timely completion of the work. Do not proceed until unsatisfactory conditions have been corrected. Commencement of installation shall constitute acceptance of substrate conditions by the installer.
5. WC shall provide accurate to 0.0625 inch (1.5875mm); field measurements for custom shade fabrication on the Roller Shades manufacturers input forms.
6. WC Installer shall install roller shades level, plumb, square, and true according to manufacturer’s written instructions, and as specified here in. Blocking for roller shades installed under the contract of the interior General Contractor shall be installed plumb, level, and fitted to window mullion as per interior architect’s design documents and in accordance with industry standard tolerances. The horizontal surface of the shade pocket shall not be out-of-level more than 0.625 inch (15.875mm) over 20 linear feet (6.096 meters)
7. Shades shall be located so the shade band is not closer than 2 inches (50 mm) to the interior face of the glass. Allow proper clearances for window operation hardware.
8. Adjust, align and balance roller shades to operate smoothly, easily, safely, and free from binding or malfunction throughout entire operational range.

9. Installer shall set Upper, Lower and up to 3 intermediate stop positions of all motorized shade bands, and assure alignment in accordance with the above requirements.
10. WC shall certify the operation of all motorized shades and turn over each floor for preliminary acceptance.
11. The WC shall participate and cooperate with the electrical contractor, the window shade manufacturer and the Commissioning agent to verify and certify the installation is in full conformance with the specifications and is fully operational. This work to occur during the commissioning stage and is in addition to preliminary acceptance required for each floor.
12. Clean roller shade surfaces after installation, according to manufacturer's written instructions.
13. WC shall train Owner's maintenance personnel to adjust, operate and maintain roller shade systems.
14. Protect installed products until completion of project.
15. Touch-up, repair or replace damaged products before Substantial Completion.

3.4 PROTECTION

A. Protect installed products until completion of project.

B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION