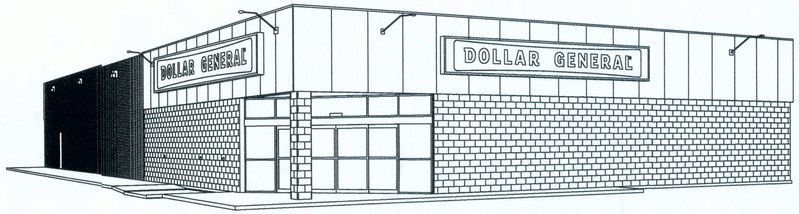
# 70'-0" x 130'-0" 9,100 SQ. FT. PROTOTYPE "E"
# LEFT CORNER ENTRY
# RELEASE 3/20/2018
# STORE #19930




APPROVED (Subject to Revisions)
Columbia County Fire Rescue
By: J.M. Mercer
Date: 3/11/19

JAMES BLYTHE
REGISTERED ARCHITECT
RA LEED AP BD+C
3324 W. UNIVERSITY AVE
PMB# 151
GAINESVILLE, FL 32607
AR94452

THESE DRAWINGS HAVE BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THE ARCHITECT ASSUMES NO RESPONSIBILITY OR GUARANTEE AS TO THE ACCURACY OF DRAWINGS FOR ANY ERRORS OR OMISSIONS THAT MAY HAVE BEEN INCORPORATED INTO IT AS A RESULT OF INCORRECT INFORMATION SUPPLIED BY OTHERS. THE CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS ON THIS DOCUMENT AND ARE ADVISED TO OBTAIN VERIFICATION OF ITS ACCURACY. ALL WORK SHALL COMPLY WITH ANY AND ALL APPLICABLE CODES AND ORDINANCES. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. ALL INFORMATION, DESIGN AND BUILDING TECHNIQUES HELD WITHIN ARE THE EXCLUSIVE PROPERTY OF THE PARTIES NOTED ON THIS TITLE BLOCK.

## SHEET INDEX

| | | PEMB & MEP | PRE PERMIT 2 | PRE PERMIT 3 | PRE PERMIT 4 | PERMIT SET | REVISIONS 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 12/14/18 | | | | 4/5/19 | | | | | |
| **GENERAL** | | | | | | | | | | | |
| T1 | COVER SHEET | X | | | | X | | | | | |
| **CIVIL** | | | | | | | | | | | |
| C1 | SITE PLAN (REFERENCE ONLY) & DUMPSTER ENCLOSURE | | | | | X | | | | | |
| **ARCHITECTURAL** | | | | | | | | | | | |
| LS1 | LIFE SAFETY PLAN | | | | | X | | | | | |
| F1 | FIXTURE PLAN | | | | | X | | | | | |
| A1 | FLOOR PLAN, DETAILS & INTERIOR PARTITIONS | X | | | | X | | | | | |
| A2 | EXTERIOR ELEVATIONS & EXTERIOR FINISH SCHEDULE | X | | | | X | | | | | |
| A3 | SECTIONS & DETAILS | X | | | | X | | | | | |
| A4 | ROOM FINISH SCHEDULE & SALES FLOOR ELEVATIONS | X | | | | X | | | | | |
| A5 | DOOR SCHEDULE & DETAILS | X | | | | X | | | | | |
| A6 | TOILET ROOM PLAN & DETAILS | | | | | X | | | | | |
| A7 | SIGN DETAILS (REFERENCE ONLY) | | | | | X | | | | | |
| A8 | SIGN BRACING (REFERENCE ONLY) | | | | | X | | | | | |
| A9 | REFLECTED CEILING PLAN | | | | | X | | | | | |
| A10 | ROOF PLAN & METAL BUILDING NOTES | X | | | | X | | | | | |
| A11 | CONCRETE SPEC | | | | | X | | | | | |
| A12 | CONCRETE SPEC | | | | | X | | | | | |
| V1 | FIELD MEASUREMENT | | | | | X | | | | | |
| **STRUCTURAL** | | | | | | | | | | | |
| S1 | FOUNDATION PLAN | | | | | X | | | | | |
| S2 | FOUNDATION DETAILS | | | | | X | | | | | |
| S3 | FOUNDATION DETAILS | | | | | X | | | | | |
| **ELECTRICAL** | | | | | | | | | | | |
| E1 | POWER PLAN | X | | | | X | | | | | |
| E2 | LIGHTING PLAN | X | | | | X | | | | | |
| E3.1 | PANEL SCHEDULES | X | | | | X | | | | | |
| E4 | DATA ROUTING & CCTV | X | | | | X | | | | | |
| EMS1 | EMS LOW VOLTAGE PLAN | X | | | | X | | | | | |
| EMS 2 | EMS PANEL & CONTROLS | X | | | | X | | | | | |
| **MECHANICAL** | | | | | | | | | | | |
| M1 | MECHANICAL PLAN | X | | | | X | | | | | |
| M2 | FIRE DAMPER DETAILS | X | | | | X | | | | | |
| **PLUMBING** | | | | | | | | | | | |
| P1 | PLUMBING PLAN & SCHEDULES | X | | | | X | | | | | |
| P2 | PLUMING DETAILS & DIAGRAMS | X | | | | X | | | | | |

## REQUIRED NATIONAL ACCOUNT VENDORS

| | | COMPANY | CONTACTS | PHONE # | REQUIRED ITEMS |
|---|---|---|---|---|---|
| SITE | | RAINBIRD IRRIGATION | LOCAL RAIN BIRD DISTRIBUTER | WWW.RAINBIRD.COM | IRRIGATION SYSTEMS |
| CONCRETE | CONCRETE POLISHING | EUCLID CHEMICAL COMPANY | PHIL BRANDT | 877-438-3826<br>PBrandt@euclidchemical.com | CONCRETE POLISHING SYSTEMS |
| | | RETRO-PLATE SYSTEMS | SCOTT MAXFIELD | 801-641-6796<br>scott.maxfield@retroplatesystem.com | CONCRETE POLISHING SYSTEMS |
| DOORS | STOREFRONT ENTRANCE | RECORD DOOR SYSTEMS | MICHAEL VINNIK | 704-290-0234<br>dollargeneral@recorddoors.com | IN,KY,MD, OH, PA,VA,WV — MODEL #5100 SERIES |
| | | STANLEY ACCESS TECHNOLOGIES | DENNIS WEBB | 256-776-8902<br>DGdoors@sbdinc.com | AR,AZ,CA,CO,CT,DE,IL,IA,KS,LA,MA,ME,MI,MN,MO, ND,NE,NH,NJ,NM,NV,NY,OK,OR,RI,SD,TX,VT,WI — MODEL #DG2000 |
| | | ASSA ABLOY ENTRANCE SYSTEMS | ROSS MERKLING | 609-528-2580<br>dollargeneral.besam.us@assaabloy.com | AL, FL, GA, MS, NC, SC, TN — MODEL #SL500 |
| | INTERIOR DOORS | GIRTMAN AND ASSOCIATES | MIKE MOYNAHAN | 615-350-6000<br>dgconstruction@bass-security.com | INTERIOR DOORS AND FRAMES AND RESTROOM ACCESSORIES — AL,AR,AZ,CA,CO,FL,GA,IA,KS,LA,MS,MN, MO,NE,NM,NV,OK,OR,SC,SD,TN,TX,WI |
| | | COOK & BOARDMAN GROUP | JOE HARRELL | 336-837-0673<br>nationalsales@cookandboardman.com | INTERIOR DOORS AND FRAMES AND RESTROOM ACCESSORIES — CT,DE,IL,IN,KY,MA,MD,ME,MI,NC,NH,NJ, NY,OH,PA,RI,VA,VT,WV |
| FINISHES | | SHERWIN WILLIAMS | LOCAL SHERWIN WILLIAMS STORE | | PAINT, PRIMER, CONCRETE SEALER AND BLOCK FILLER |
| | | MC CUE CORPORATION | KEVIN O'NEILL | 678-492-4026 koneill@mccue.com | TRIM KIT INCLUDES BUMPER GUARDS AND CART STOP |
| HVAC | HVAC UNITS | YORK | NATIONAL ACCOUNTS | 800-481-9738<br>york-dollargeneral-be@jci.com | HVAC UNITS<br>AR, CO, IL, IN, KY, KS, MO, OH, OK, WV |
| | | CARRIER | HASAN KHALIL | 315-432-7655<br>Hasan.Khalil@carrier.utc.com | HVAC UNITS<br>CT, IA, MA, ME, MI, MN, ND, NE, NH, NJ, NY, PA, RI, SD, VT, WI |
| | | LENNOX | SCOTT MACDONALD | 972-497-6781<br>dollargeneral@lennoxind.com | HVAC UNITS<br>AL, AZ, CA, DE, FL, GA, LA, MD, MS, NC, NM, NV, OR, SC, TN, TX,VA |
| | RTU CURBS | ROOF CURB SYSTEMS | CLIFTON REASOR | 800-683-5848<br>DollarGeneral@roofcurb.com | RTU CURB |
| | | CURBS PLUS INC. | ALLAN THRAILKILL | 888-639-2872<br>alan.thrailkill@curbs-plus.com | RTU CURB |
| | | KCC INTERNATIONAL INC. | GREG CONRAD | 800-382-2872<br>gconrad@kcccurbs.com | RTU CURB |
| ELECTRICAL | ELECTRICAL SWITCH GEAR | CED - CONSOLIDATED ELECTRICAL DISTRIBUTORS | ROBERT DECKER | 270-781-2229<br>robertd@cedbgky.com | ELECTRICAL SWITCH GEAR — AR,AZ,CA,CO,IA,IN,IL,LA,KS,KY,MI,MN, MO,MS,ND,NE,NM,NV,OK,OR,SD,TX,WI |
| | | NESCO | CHRIS TRACY | 800-244-6980<br>dollargeneral@needhamelectric.com | ELECTRICAL SWITCH GEAR — AL,CT,DE,FL,GA,MA,MD,ME,NC,NH,NJ, NY,OH,PA,RI,SC,TN,VA,VT,WV |
| | LIGHTING | USLED | DANA PORTER<br>PAUL JEZIOROWSKI | 713-337-3836<br>DGUSLED@usled.com | ELECTRICAL LIGHTING SUPPLIES — AR,CO,IA,IL,IN,KS,KY,MI,MN,MO, ND,NE,OH,OK,SD,WI,WV |
| | | LEDS | MICHAEL STRINGER<br>KYLE KNAPP | 920-915-4010<br>DGORDERS@leds-llc.com | ELECTRICAL LIGHTING SUPPLIES — AL,AZ,CA,CT,DE,FL,GA,LA,MA,MD,ME,MS NC,NH,NJ,NM,NV,NY,OR,PA,RI,SC,TN,TX,VA,VT |
| | | D&P CUSTOM LIGHTING | NATIONAL ACCOUNT SALES | 800-251-2200 | CUSTOM POWER POLES |
| | LOW VOLTAGE SYSTEM | CROSSCOM NATIONAL | ANDREA LEMAY | 847-850-6297<br>dollargeneral@crosscomnational.com | LOW VOLTAGE & VOICE/DATA — CO,CT,DE,FL,IA,IL,IN,KS,MA,MD,ME,MI,MN, MO,ND,NE,NH,NJ,NY,OH,PA,RI,SD,VT,WI,WV |
| | | ASD | CHRIS RUDNITSKI | 828-624-1046<br>crudnitski@asd-usa.com | LOW VOLTAGE & VOICE/DATA — AL,AR,AZ,CA,GA,KY,LA,MS,NC,NM,NV, OK,OR,SC,TN,TX,VA |
| | | GRAYBAR | JEROME BANNISTER | 615-743-3202 office, 615-924-2135 cell<br>DollarGeneral@graybar.com | CABLE TRAY |
| | | EMERSON CLIMATE TECHNOLOGIES | WEBSITE:<br>http://dollargeneralbid.ectsolutions.net | USER NAME: dollargeneralbid<br>PASSWORD: dollargeneralbid | EMS SUPPLIER NOTE: CUSTOMIZED DOLLAR GENERAL EMS PANEL REQUIRES STORE #, CITY, STATE, ZIP CODE & QTY. OF HVAC UNITS OF THE INSTALL SITE WHEN ORDERING. |
| | | STANLEY CONVERGENT SECURITY SOLUTIONS | DAN GOLDSMITH | 740-215-8913 | INTERIOR FIRE ALARM PANELS |

## REQUIRED NATIONAL ACCOUNTS FOR ENGINEERING AND CONSTRUCTION MATERIAL TESTING

| COMPANY | CONTACTS | PHONE # | |
|---|---|---|---|
| ATC ASSOCIATES, INC. | LESLIE GREENWOOD | 205-733-8775<br>leslie.greenwood@atcgc.com | www.atcassociates.com |
| BUILDING AND EARTH SCIENCES, INC. | MATT ADAMS | 205-836-6300<br>dollargeneral@buildingandearth.com | www.buildingandearth.com |
| EAS PROFESSIONALS, INC. | JERRY MARRONE | 864-234-7368<br>dollargeneral@eas-pro.com | www.eas-pro.com |
| PROFESSIONAL SERVICE INDUSTRIES, INC. (PSI) | TERESA HEBNER | 770-424-6200 #3030<br>teresa.hebner@psiusa.com | www.psiusa.com |
| TERRACON | JOHN MEADOW | 770-623-0755 #353<br>dollargeneral@terracon.com | www.terracon.com |

NOTE: MATERIAL TESTING IS REQUIRED ON ALL TRIPLE NET LEASES.

## PROTOTYPE MANAGEMENT TEAM

| COMPANY | CONTACTS | PHONE # | |
|---|---|---|---|
| MJM ARCHITECTS | GARY CONWAY | 615-244-8170<br>dg@mjmarch.com | www.mjmarch.com |
| ENTECH | MITCH SIMPSON | 615-373-2640<br>email@entechtn.com | www.entechtn.com |

NATIONAL ACCOUNT & CONTACT INFORMATION SUBJECT TO CHANGE

**THIS BUILDING DOES NOT REQUIRE FIRE SPRINKLER SYSTEM.**

**AS REQUIRED BY FS 633.027(1): THE ROOF CONSTRUCTION OF THIS STRUCTURE IS A LIGHT GAUGE STEEL FRAME METAL BUILDING AND IS THEREFORE CONSIDERED A LIGHT-FRAME TRUSS TYPE CONSTRUCTION. - REF. SHEET L1 FOR REQUIREMENTS.**

OCCUPANCY CLASSIFICATION: MERCANTILE GROUP M
CONSTRUCTION TYPE: II-B
WIND LOAD CRITERIA ( PER 1603.1.4) :
BASIC WIND SPEED = 119 Vult / 110 Vasd
RISK CATEGORY = II
EXPOSURE TYPE = B
EXPOSURE CLASSIFICATION = CLOSED
COMPONENTS & CLADDING:
WIND IMPORTANCE FACTOR = 1.0 ( 21'-0" BLDG. HEIGHT)
INTERNAL PRESSURE COEFFICIENT: ± 0.18
CODES TO BE ADHERED TO AT TIME OF CONSTRUCTION:
2017 FL BUILDING CODE, BUILDING - 6th EDITION
2017 FL BUILDING CODE, FUEL GAS - 6th EDITION
2017 FL BUILDING CODE, MECHANICAL - 6th EDITION
2017 FL BUILDING CODE, PLUMBING - 6th EDITION
2017 FL BUILDING CODE, ACCESSABILITY - 6TH EDITION
2017 FL BUILDING CODE, ENERGY CONSERVATION - 5th EDITION
FLORIDA FIRE PREVENTION CODE - 6th EDITION
2014 NATIONAL ELECTRIC CODE ( NFPA 70-14)

OCCUPANCY USE AND CLASSIFICATION = SECTION 309.1
MERCANTILE GROUP M / CLASS B (PER 2017 FBC CHAPTER 3)

| AREA | TOTAL S.F. | PER TABLE 1004.1.1 | TOTAL |
|---|---|---|---|
| SALES AREA: | 7,422 | 1/60 (MERCANTILE) | 124 |
| OFFICE: | 80 | 1/100 (BUSINESS) | 1 |
| BREAKROOM: | 105 | 1/100 (BUSINESS) | 2 |
| RECEIVING: | 905 | 1/300 (STORAGE) | 4 |
| MISC. BUILDING: | 588 | 1/100 (BUSINESS) | 6 |
| BLDG. TOTAL | 9,100 | | 137 |

PLEASE NOTE:
PER FBC 2014 CHAPTER 3, RECEIVING AREA TO BE CLASSIFIED AS LOW-HAZARD STORAGE, GROUP S-2 (311.3)
ALL NON-SALES AREA OF THE BUILDING ARE TO BE CLASSIFIED AS BUSINESS, GROUP B (304.1)

## SQUARE FOOTAGE LEGEND

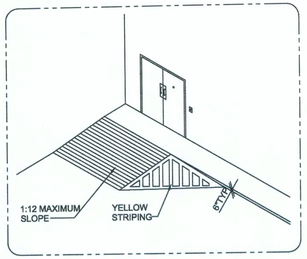
| | |
|---|---|
| TOTAL SQUARE FOOTAGE | 9,100 S.F. |
| TOTAL LEASABLE AREA | 9,002 S.F. |
| OVERALL BUILDING DIMENSIONS | 70'-0" X 130'-0" |
| SALES FLOOR DIMENSIONS | 68'-0" X 107'-5" |
| SALES AREA | 7,422 S.F. |
| RECEIVING AREA | 905 S.F. |
| BREAK ROOM & OFFICE AREA | 185 S.F. |
| TOILET ROOMS & HALLWAY AREA | 176 S.F. |
| TOTAL NET AREA (BLDG AREA PER CODE) | 8,688 S.F. |

NOTES:
1. BUILDING MUST COMPLY WITH ALL BUILDING (FEDERAL, STATE AND LOCAL), FIRE, ACCESSIBILTY AND HEALTH DEPARTMENT CODES.
2. NO TAPERED COLUMNS ALLOWED.
3. MAINTAIN INTERIOR CLEAR SALES SPACE AS REQUIRED ON PLANS.

CONCEPT COMPANIES
3324 W. University Ave., PMB#151 / GAINESVILLE, FL 32607
LIC#CGC 1505491
PH: 877.378.7789 FAX: 352.378.7809
WWW.CONCEPTCOMPANIES.NET

DOLLAR GENERAL
2144 SW BIRLEY AVE.
LAKE CITY, FL 32024
STORE # 19930
2018 PROTOTYPE - PLAN '9100E' - 9,100 SQ. FT.

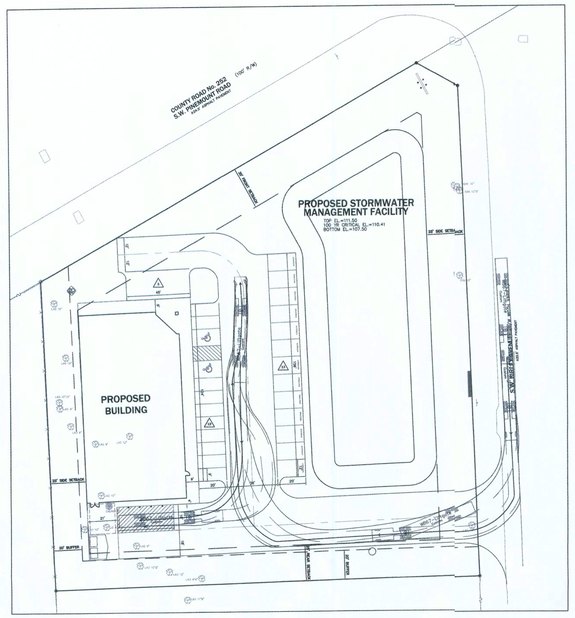
DRAWING DATE: / DRAWN BY: 4/5/19 - JEM
REVISION DATE: / REVISED BY:
PROJECT NUMBER: 4000.170
DRAWING TITLE: COVER SHEET
SHEET NO. T1



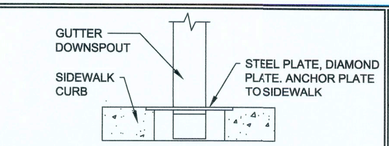

| STRIPING LEGEND | |
|---|---|
| YELLOW CURBING AND BOLLARDS - PARKING LOT | SURFACES SHOULD BE CLEAN, DRY AND METAL SURFACES FREE OF HEAVY RUST 2 COATS SHERWIN WILLIAMS - KEM 4000 ACRYLIC ALKYD ENAMEL SAFETY YELLOW B55Y300 |
| STRIPING - PARKING LOT | SURFACES SHOULD BE CLEAN, DRY. TOP COAT SHERWIN WILLIAMS - PROMAR TRAFFIC MARKING PAINT YELLOW TM5495 |
| HANDICAP STRIPING - PARKING LOT | SURFACES SHOULD BE CLEAN, DRY. TOP COAT SHERWIN WILLIAMS - PROMAR TRAFFIC MARKING PAINT "H.C." BLUE |

CONTRACTOR IS RESPONSIBLE FOR ALL PUBLIC UTILITY CONNECTIONS (ELECTRIC, WATER, GAS, SEPTIC, SEWER) AS WELL AS PROVIDING ALL INFRASTRUCTURES REQUIRED BY UTILITY COMPANY

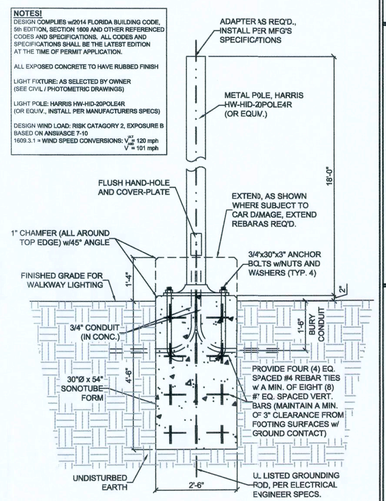
NOTE:
FOR REFERENCE ONLY. SEE SIGNED AND SEALED CIVIL ENGINEERING PLANS




1 / C1 SITE PLAN (REFERENCE ONLY)
SCALE: N.T.S.




2 / C1 DOWNSPOUT @ SIDEWALK
SCALE: N.T.S.




3 / C1 LIGHT POLE BASE
SCALE: 1/2" = 1'-0"

## DUMPSTER KEY NOTES

1. TOP OF WALL, BOND BEAM SOLID POURED CONT. W/(2) #5 REBAR
2. SOLID POURED CELL EVERY 48" W/(1) #5 CONT. DRILLED & EPOXIED FROM TOP TO BOTTOM W/12" HOOK EACH END AND MIN. 30ø" SPLICE
3. 8" SPLIT-FACED CMU W/(1) #5 AT 48" O.C. TYP. (PAINT BLOCK TO MATCH BUILDING
4. FINISHED SLAB
5. 20"x18" CONCRETE FOOTING
6. (2) #5 CONT. W/12" STANDARD HOOK
7. 6" STEEL BOLLARD, POUR SOLID. PAINT TO MATCH BUILDING/CMU. SEE CIVIL PLANS FOR EMBEDMENT.
8. DUMPSTER (NIC)

CONCRETE FOOTING W/REINFORCED CONCRETE AS SHOWN

CONCRETE SHALL BE STANDARD MIX F'c=3000 PSI FOR ALL FOOTINGS AND SLABS OR SHALL BE STANDARD PUMP MIX F'x=3000 PSI. STRENGTH SHALL BE ATTAINED WITHIN 28 DAYS OF PLACEMENT. MIXING, PLACING AND FINISHING SHALL BE PER ACI STANDARDS.

CONCRETE SHALL BE PER MANUFATURER'S PRODUCT GUIDE ASTM C-90 REQUIREMENTS WITH MEDIUM SURFACE FINISH.

MORTAR SHALL BE TYPE 'M' OR 'N' FOR ALL MASONRY UNITS.

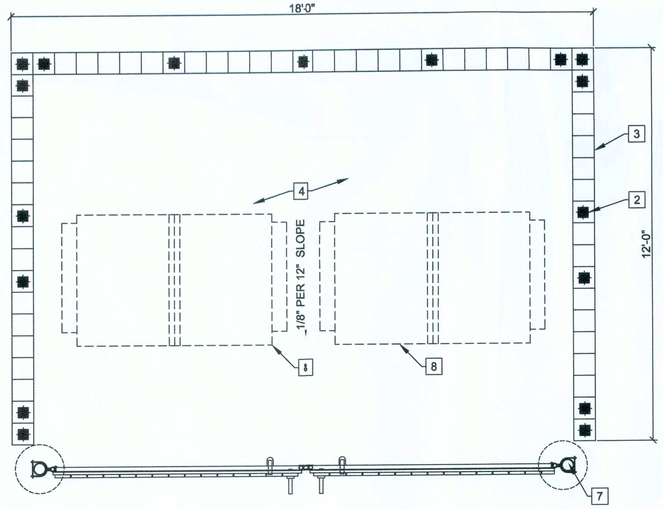
DUMPSTER ENCL. CONCRETE SPECS:

CONSTRUCT FOOTING w/REINFORCED CONCRETE AS SHOWN.

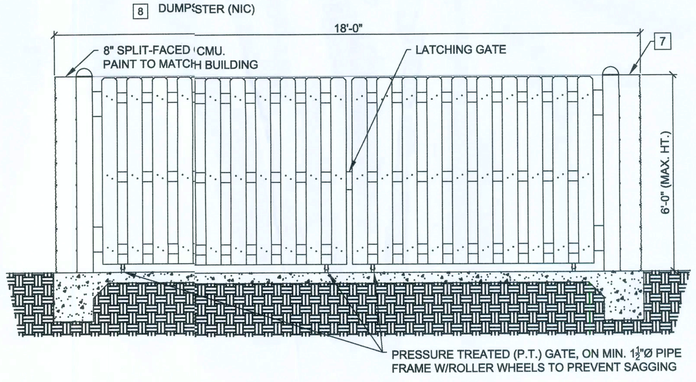
CONCRETE SHALL BE STANDARD MIX F'c = 3000 PSI FOR ALL FOOTINGS AND SLABS OR SHALL BE STANDARD PUMP MIX F'c = 3000 PSI. STRENGTH SHALL BE ATTAINED WITHIN 28 DAYS OF PLACEMENT. MIXING, PLACING AND FINISHING SHALL BE AS PER ACI STANDARDS.

CONCRETE BLOCK PER ASTM C-90 REQUIREMENTS WITH MEDIUM SURFACE FINISH. SEE SPECS ON A-12.

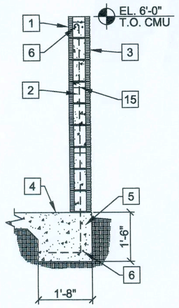
USE TYPE 'M' OR 'N' MORTAR TO LAY UP CONCRETE MASONRY BLOCK.



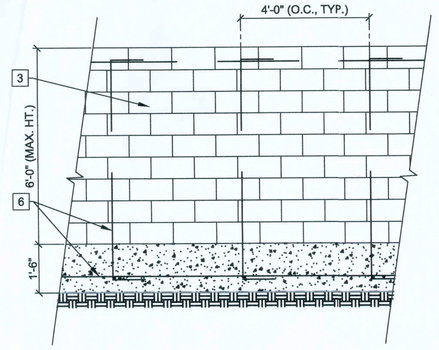

4A / C1 DUMPSTER ENCLOSURE PLAN
SCALE: 1/2" = 1'-0"




4B / C1 DUMPSTER ENCLOSURE ELEVATION
SCALE: 1/2" = 1'-0"




4C / C1 TYP. SECTION
SCALE: 1/2" = 1'-0"




4D / C1 REBAR ELEVATION
SCALE: 1/2" = 1'-0"

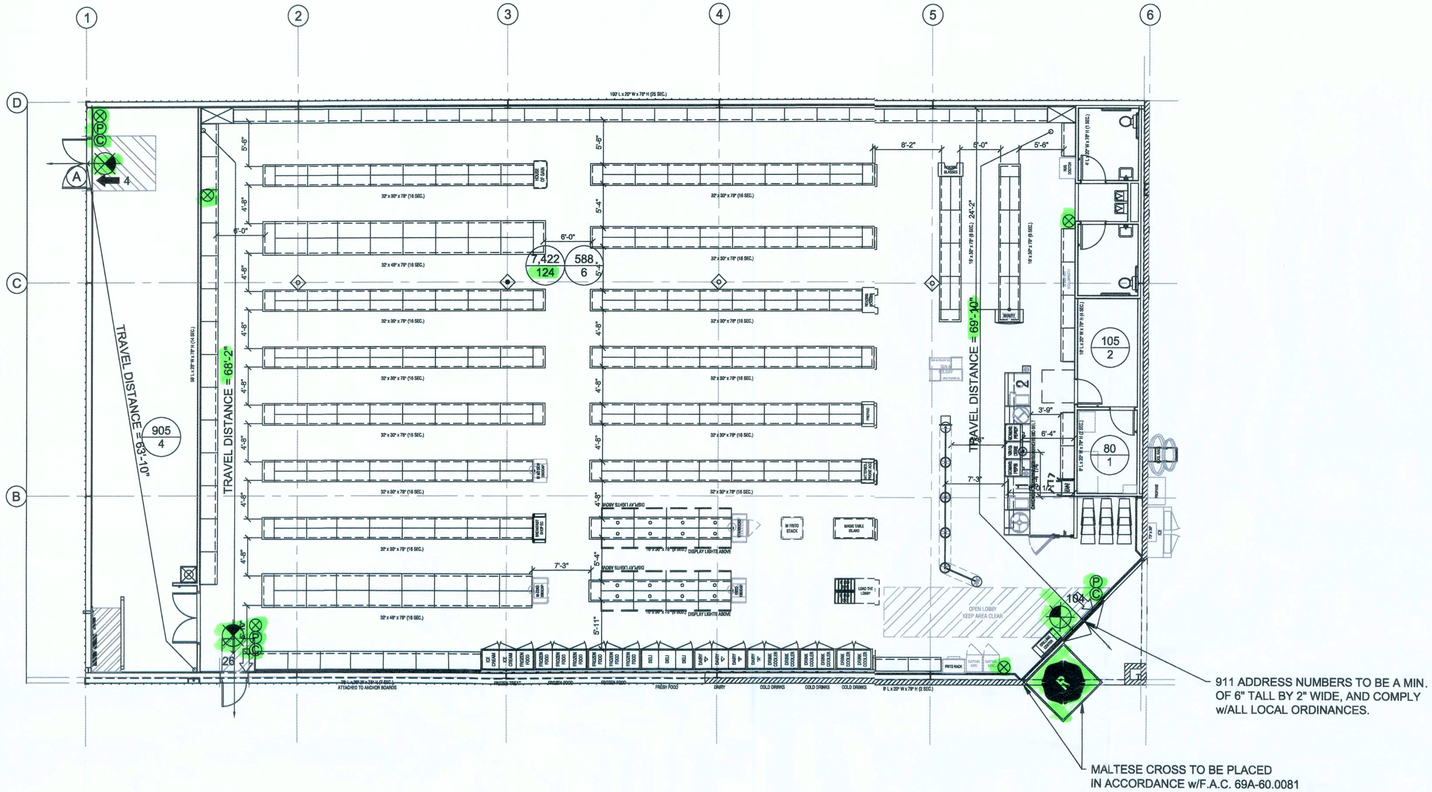
JAMES BLYTHE
REGISTERED ARCHITECT
RA LEED AP BD+C
3324 W. UNIVERSITY AVE
PMB#151
GAINESVILLE, FL. 32607
AR94452

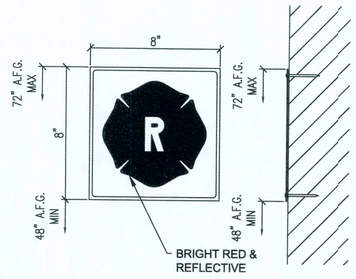
THESE DRAWINGS HAVE BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED TO CONCEPT COMPANIES BY OTHERS. THE ARCHITECT ASSUMED NO RESPONSIBILITY FOR THE ACCURACY OF THESE DRAWINGS FOR ANY ERRORS / OMISSIONS THAT MAY HAVE BEEN CONTAINED IN SAID INFORMATION. THE ARCHITECT HAS RELIED ON THE INFORMATION PROVIDED TO THE ARCHITECT, THOSE RELYING ON THIS DOCUMENT ARE ADVISED TO OBTAIN VERIFICATION OF ITS ACCURACY. ALL WORK SHALL COMPLY WITH ALL CODES AND APPLICABLE CODES AND ORDINANCES. SUPERINTENDENTS ARE TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. ALL INFORMATION CONTAINED HEREIN IS THE PROPERTY OF ITEM+ AND ARE THE EXCLUSIVE PROPERTY OF THE PARTIES NOTED ON THIS TITLE-BLOCK.

CONCEPT COMPANIES
3324 W. University Ave., PMB#151 / GAINESVILLE, FL 32607
PH: 877-.309-.1029 / FAX: 800-.218-.7809
WWW.CONCEPTCOMPANIES.NET

DOLLAR GENERAL®
2144 SW BIRLEY AVE.
LAKE CITY, FL 32024
STORE # 19930
2018 PROTOTYPE - PLAN 19100E - 9,100 SQ. FT.

DRAWING DATE / DRAWN BY: 4/5/19 - JEM
REVISION DATE / REVISED BY:
PROJECT NUMBER: 4000.170
DRAWING TITLE: SITE PLAN (REFERENCE) & DUMPSTER ENCLOSURE
SHEET NO.: C1




2 / C1 TRUSS RULE SIGN
SCALE: 3" = 1'-0"

1 / L1 LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"

NORTH

**OCCUPANCY LOAD - MERCANTILE CLASS B**

| AREA | TOTAL SF | ALLOWABLE | TOTAL OCCUPANCY |
|---|---|---|---|
| SHOWROOM: | 7,422 | 1/60 | 124 |
| OFFICE: | 80 | 1/100 | 1 |
| BREAKROOM: | 105 | 1/100 | 2 |
| RECEIVING: | 905 | 1/300 | 4 |
| BUILDING: | 588 | 1/100 | 6 |
| **BUILDING TOTAL:** | **9,100** | | **137** |

**LEGEND**

- EXIT LIGHT-ARROW REPRESENTS DIRECTION OF EGRESS
- HD — HEAT DETECTOR-COORDINATE WITH ELECTRICAL DRAWINGS
- WALL HUNG "ABC" FIRE EXTIGUISHER (10lbs MIN.)
- C — DOOR CLOSER FOR EXITING OR RATING REASONS
- P — PANIC DEVICE
- 999 — PRIMARY EGRESS WITH EXIT CAPACITY
- 999 — SECONDARY EGRESS WITH EXIT CAPACITY
- 9,999 — ROOM SQUARE FOOTAGE
- 999 — ROOM OCCUPANCY LOAD
- 1-HOUR RATED FIREWALL

**NOTES:**

1. EMERGENCY LIGHTING AND EXIT SIGNS SHALL BE PROVIDED AS DIRECTED BY THE FIRE MARSHALL AND SHALL BE WIRE PER NEC 700-12F. ADDITIONAL EXIT SIGNS MAY BE ADDED AFTER FIXTURE PLACEMENT AND FIRE MARSHALL INSPECTION.
2. SMOKE DETECTORS SHALL BE MOUNTED NOT LESS THAN 90" ABOVE FINISHED FLOOR AND SHALL BE THE IONIZATION TYPE, INTERLOCKED TOGETHER, POWERED FROM EACH STORE PANEL WITH BATTERY BACK-UP.

JAMES BLYTHE
REGISTERED ARCHITECT
RA LEED AP BD+C
3324 W. UNIVERSITY AVE
PMB#151
GAINESVILLE, FL. 32607
AR94452

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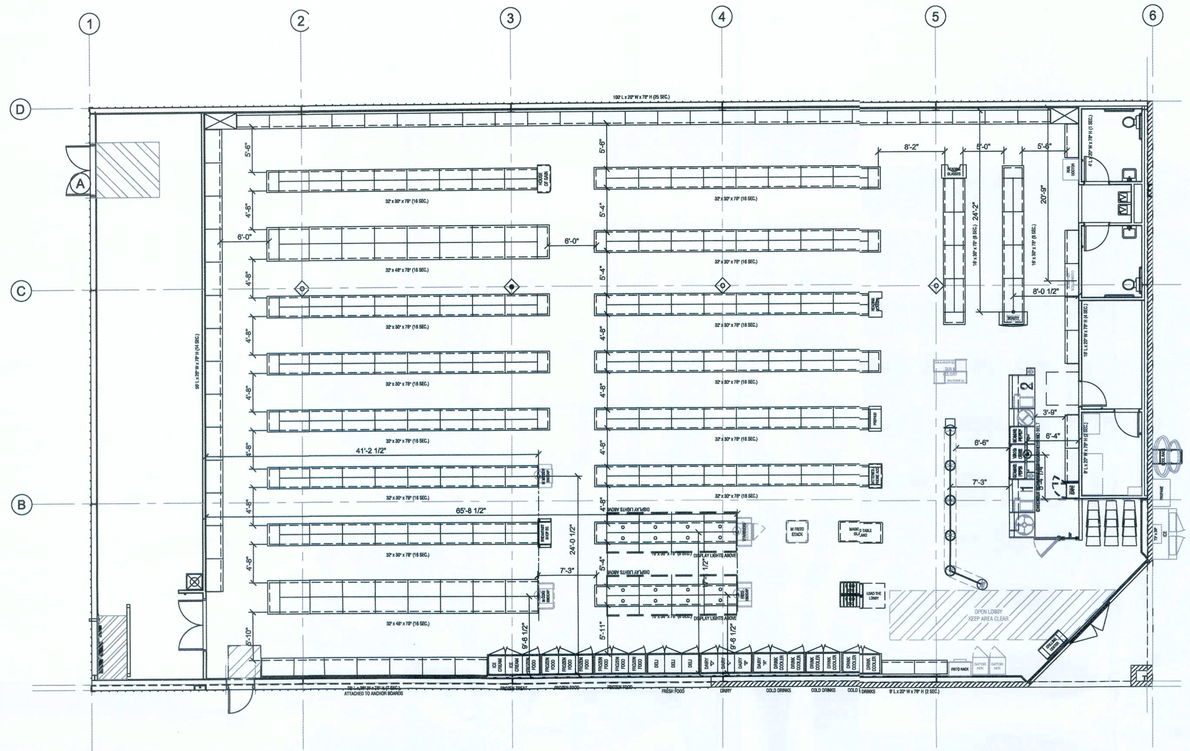
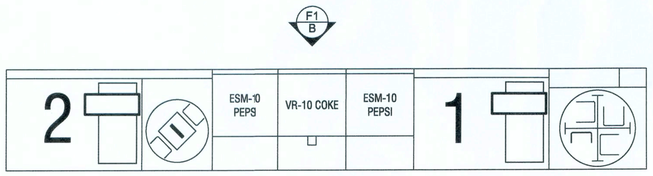
WWW.CONCEPTCOMPANIES.NET

DOLLAR GENERAL®
2144 SW BIRLEY AVE.
LAKE CITY, FL 32024
STORE # 19808
2018 PROTOTYPE - PLAN 9100E - 9,100 SQ. FT.

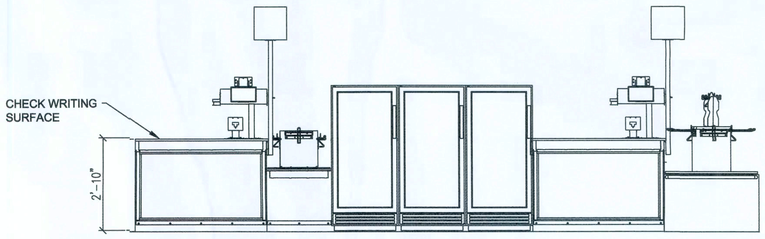
DRAWING DATE: / DRAWN BY: 4/5/19 - JEM
REVISION DATE: / REVISED BY:
PROJECT NUMBER: 4000.170
DRAWING TITLE: LIFE SAFETY PLAN
SHEET NO.: LS1




1 / F1 FIXTURE PLAN
SCALE: 1/8" = 1'-0"
NORTH




**A - SERVICE COUNTER PLAN**

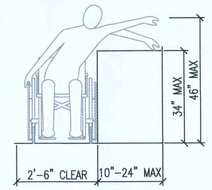



**B - ELEVATION**

NOTE:
FRONT CHECKOUT COUNTER TO BE PROVIDED BY TENANT AND INSTALLED AT TENANT'S DIRECTION. COUNTERS SHALL INCLUDE A PORTION OF AT LEAST 36" IN LENGTH WHICH IS NO MORE THEN 34" A.F.F. COUNTERS SHALL BE ON AN ACCESSIBLE ROUTE

2 / F1 SERVICE COUNTER
SCALE: 1/2" = 1'-0"

NOTE:
COUNTER TO COMPLY WITH FBC A904




ACCESS AT
CHECKOUT COUNTER

JAMES BLYTHE
REGISTERED ARCHITECT
RA LEED AP BD+C
3324 W. UNIVERSITY AVE
PMB#151
GAINESVILLE, FL. 32607
A994452

4/11/19

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DOLLAR GENERAL
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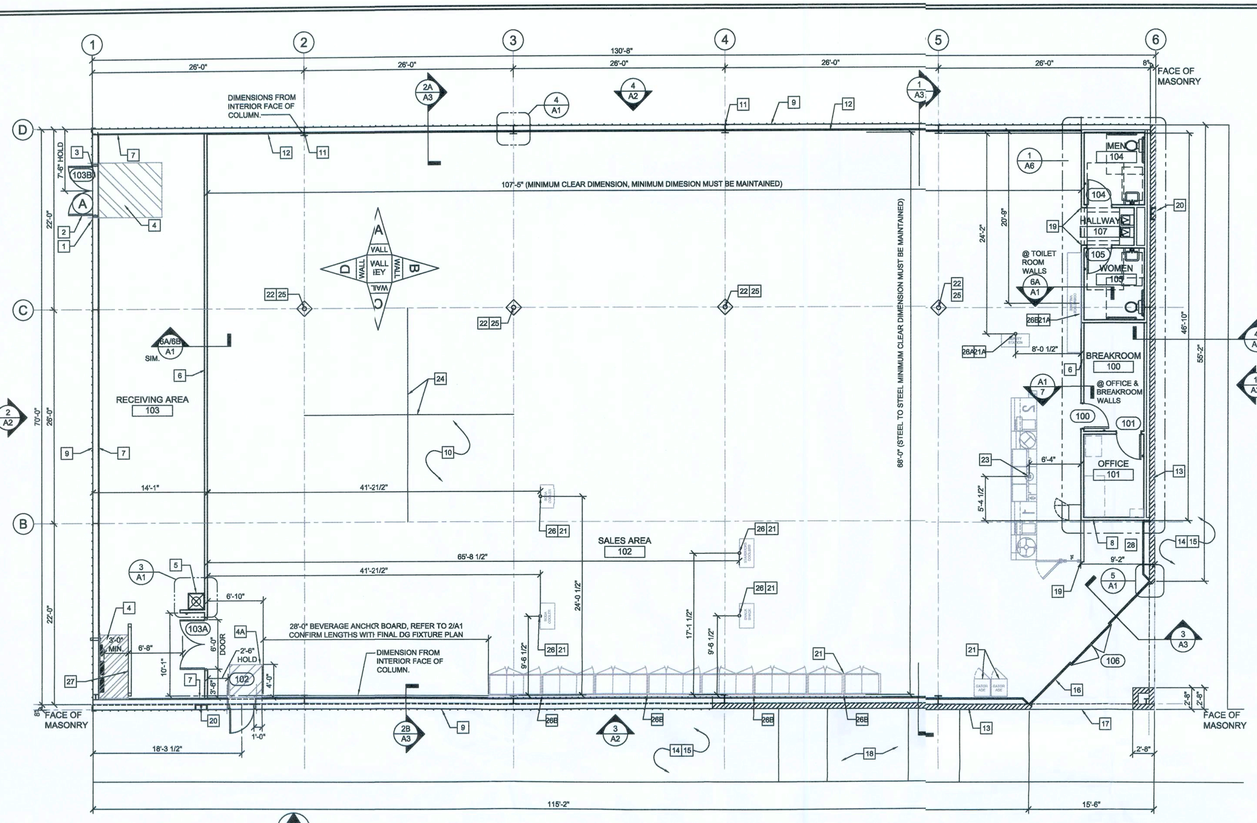
LAKE CITY, FL 32024
STORE # 19930
2018 PROTOTYPE - PLAN 9100E - 9,100 SQ. FT.

| | |
|---|---|
| DRAWING DATE: / DRAWN BY: | 4/5/19 - JEM |
| REVISION DATE: / REVISED BY: | |
| PROJECT NUMBER: | 4000.170 |
| DRAWING TITLE: | FIXTURE PLAN |
| SHEET NO. | F1 |




1 FLOOR PLAN
A1 SCALE: 1/8" = 1'-0"

NORTH

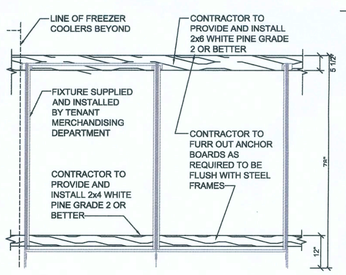
## FLOOR PLAN KEYED NOTES

1. RECEIVING DOOR BUZZER - TORK MDL.#TA725 OR EQUAL
2. DOOR SCOPE. REFER TO DOOR SCHEDULE.
3. WEATHER STRIP & LOW PROFILE THRESHOLD. SEE DOOR SCHEDULE.
4. STRIPE FLOOR FOR DESIGNATED EGRESS PATH (PAINT YELLOW) AND 3'-0" DESIGNATED EMS PANEL CLEARANCE (PAINT RED).
4A. STRIPE FLOOR FOR DESIGNATED ADA EGRESS PATH (PAINT YELLOW).
5. PROVIDE AND INSTALL A TEN GALLON WATER HEATER (OR LARGER IF REQUIRED BY CODE) ABOVE THE MOP SINK.
6. 3 5/8" METAL STUD WITH 1/2" MINIMUM GYPSUM BOARD (BOTH SIDES). REFER TO NOTED WALL SECTION. REFER TO ROOM FINISH SCHEDULE FOR GYPSUM BOARD HEIGHT AT ANY PARTICULAR WALL.
7. METAL LINER PANELS TO 8'-0" A.F.F. (BY PRE-ENGINEERED BUILDING MANUFACTURER).
8. DIMENSIONS ARE TO COLUMN LINE UNLESS OTHERWISE NOTED.
9. METAL BUILDING PANELS (BY PEMB). PROVIDE TAMPER-RESISTANT FASTENERS FOR BOTTOM 8'-0".
10. CONCRETE SLAB WITH STRUCTURAL MIN. 6x6xW1.4 WELDED WIRE MESH OVER POLYETHYLENE VAPOR BARRIER (MIN. 10 MM THICK) OVER CRUSHED STONE BASE, TYPICAL, OR EQUIVALENT. SEE STRUCTURAL DWGS. PROVIDE CONTROL JOINTS AS SHOWN ON S03.
11. METAL BUILDING FRAME. REFER TO NOTED WALL SECTION FOR ADDITIONAL INFORMATION.
12. 1/2" GYPSUM BOARD (TO 10'-0" A.F.F.) OVER METAL LINER PANELS AND INSULATION WITH VAPOR BARRIER.
13. 8" SPLIT-FACED CMU PAINTED TO MATCH SIDE WALL PANELS. ALIGN FACE OF BLOCK WITH STEEL GIRT. PROVIDE PROPER ANCHORAGE TO STRUCTURE.
14. SLOPE CONCRETE 1/8" PER FOOT AWAY FROM BUILDING.
15. COORDINATE CONCRETE SIDEWALK WITH CIIVL AND BROOM FINISH, TYPICAL.
16. BRONZE STOREFRONT SYSTEM. REFER TO NOTED WALL SECTION FOR ADDITIONAL INFORMATION. CONTINUE GYPSUM BOARD ABOVE STOREFRONT TO DECK.
17. LINE OF SOFFIT OR CANOPY ABOVE.
18. A.D.A. COMPLIANT ACCESSIBLE RAMP WITH YELLOW PAINTED SIDES TO ACCESSIBLE PARKING STALLS.
19. MC CUE CART AND BUMPER GUARDS. TOP INSTALLED @ 3'-5" A.F.F. ORDER TRIM KIT FOR THIS PROTOTYPE.
20. WALL HYDRANT. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
21. REFRIGERATION BY DOLLAR GENERAL.
21A. BEAUTY AND COSMETICS SHELVING AND EQUIPMENT.
22. ROUND PIPE STEEL COLUMN WITH RECESSED BASE PLATE. PAINT SW7005 PURE WHITE. WRAP COLUMN WITH TIGHT LOOP CARPET (BLACK) FROM BASE TO 48" A.F.F.
23. POWER POLE. COORDINATE FINAL LOCATION WITH FINAL DOLLAR GENERAL FIXTURE PLAN (F01).
24. CONTROL JOINTS ARE TO BE PLACED ALONG COLUMN LINES AND MID POINT BEWTEEN COLUMN LINES. COORDINATE WITH STRUCTURAL DRAWINGS.
25. FLOOR AREA AT BASE OF COLUMNS, WITHIN THE CONST JOINTS, TO BE PAINTED BLACK MAGIC TINT.
26. ENDCAP COOLER/FREEZER AND DISPLAY LIGHTING AS NEEDED TO BE HARDWIRED THROUGH WHITE SO CORD. GC TO LEAVE BOTTOM HANGING AT 80" A.F.F. (SEE ELECTRICAL). CORD ANCHORED TO PURLINS ABOVE. COORDINATE LOCATION WITH FINAL DOLLAR GENERAL FIXTURE PLAN.
26A. BEAUTY STATION TO BE HARDWIRED THROUGH WHITE SO CORD. GC TO LEAVE BOTTOM HANGING AT 48" AFF. (SEE ELECTRICAL). CORD ANCHORED TO PURLINS ABOVE. COORDINATE LOCATION WITH FINAL DOLLAR GENERAL FIXTURE PLAN.
26B. WALL OUTLETS FOR BANKS OF COOLERS AND FREEZERS AND COSMETICS VALANCE, SEE ELECTRCAL FOR DETAILS.
27. MC CUE RAILING IN FRONT OF ELECTRICAL PANELS.8'-0" LONG WITH TOP TWO RAILINGS AND NO MIDDLE POST.
28. CART AREA. REFER TO 5 & 6/A6.

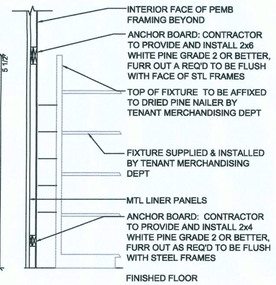
NOTES:

A. IDENTIFY THROUGH-PENETRATION FIRESTOP SYSTEMS WITH PRESSURE SENSITIVE SELF ADHESIVE, PRE-PRINTED RUBBER BASE LABELS, ATTACH LABELS PERMANENTLY TO SURFACES OF PENETRATED CONSTRUCTION ON BOTH SIDES OF EACH FIRESTOP SYSTEM INSTALLATION WHERE LABELS WILL BE VISIBLE TO ANYONE SEEKING TO REMOVE PENETRATING ITEMS OR FIRESTOP SYSTEMS. SHARE THE FOLLOWNG INFORMATION ON THE LABELS:

1. THE WORDS: "WARNING FIRE AND/OR SMOKE BARRIER-PROTECT ALL OPENINGS. DO NOT DISTURB. NOTIFY BUILDING MANAGEMENT OF ANY DAMAGE".
2. CONTRACTOR'S NAME, ADDRESS AND PHONE NUMBER
3. THROUGH PENETRATION FIRESTOP SYSTEM DESIGNATION OF APPLICABLE TESTING AND INSPECTING AGENCY
4. DATE OF INSTALLATION
5. THROUGH PENETRATION FIRESTOP SYSTEM MANUFACTURER'S NAME
6. INSTALLER'S NAME

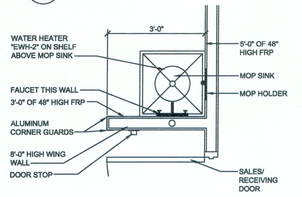



2 ANCHOR BOARD
A1 SCALE: N.T.S.

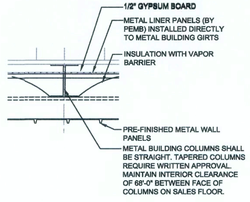



DRINK FIXTURE WALL MOUNTING SUPPORT NOTES:

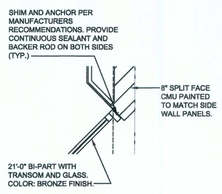
1. PROVIDE AND INSTALL 2X8 WHITE PINE - GRADE 2 OR BETTER.
2. PROVIDE AND INSTALL 2X4 WHITE PINE - GRADE 2 OR BETTER.
3. FASTEN THE 2X8 TO THE WALL WITH THE TOP EDGE OF THE BOARD AT 78" A.F.F., REFER TO FIXTURE PLAN FOR LENGTH AND LOCATION OF BOARD.
4. FASTEN THE 2X4 TO THE WALL WITH THE TOP EDGE OF THE BOARD AT 12" A.F.F., REFER TO FIXTURE PLAN FOR LENGTH AND LOCATION OF BOARD.
5. PRE-DRILL PILOT HOLES IN ALL BOARDS PRIOR TO INSTALLATION TO PREVENT WOOD SPLITS.
6. SECURE THE 2X8 WITH TWO SELF-TAPPING SCREWS. MINIMUM SCREW SIZE IS 4"x 1/4".
7. FASTEN THE 2X4 WITH WITH SELF-TAPPING SCREW PER WALL STUD. MINIMUM SCREW SIZE IS 4"x 1/4".
8. CAULK THE EDGES OF THE 2X8 AT THE TOP AND BOTTOM WHERE IT MEETS THE WALL PRIOR TO PAINTING.
9. PRIME AND PAINT BOTH BOARDS TO MATCH WALL COLOR.



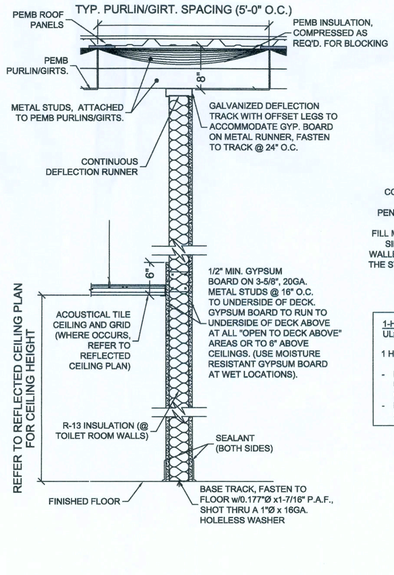

3 MOP SINK
A1 SCALE: 1/2" = 1'-0"



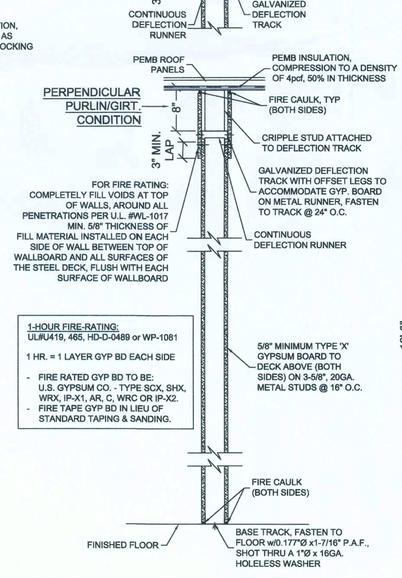

4 COLUMN DETAIL
A1 SCALE: 1/2" = 1'-0"



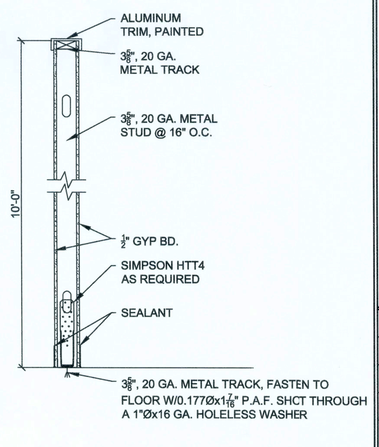

5 EXT. CORNER
A1 SCALE: 1/2" = 1'-0"




6A TYP. PARTITION
A1 SCALE: 1" = 1'-0"




6B FIRE RATED PARTITION
A1 SCALE: 1" = 1'-0"




7 OFFICE/BREAK ROOM PARTITION
A1 SCALE: 1" = 1'-0"

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4/5/19

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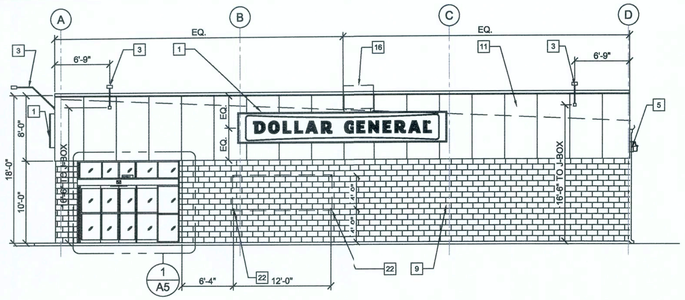
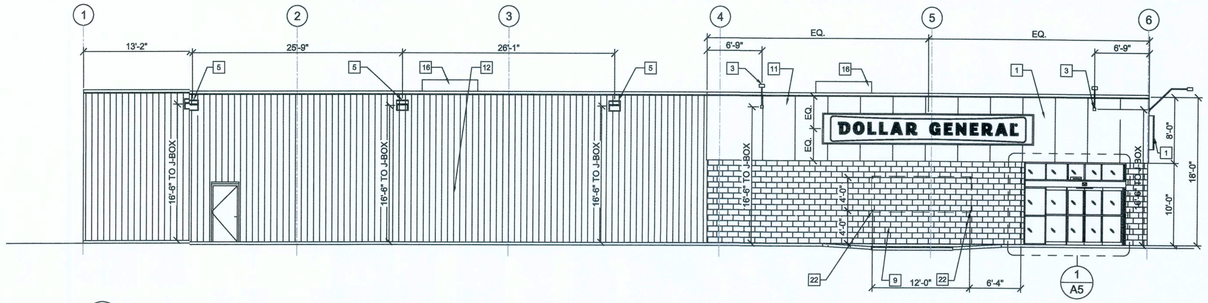
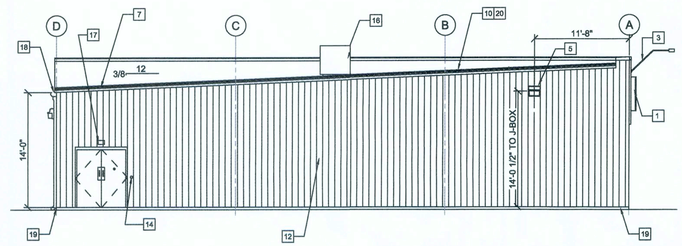
DRAWING DATE: / DRAWN BY: 4/5/19 - JEM
REVISION DATE: / REVISED BY:
PROJECT NUMBER: 4000.170
DRAWING TITLE: FLOOR PLAN & DETAILS
SHEET NO. A1



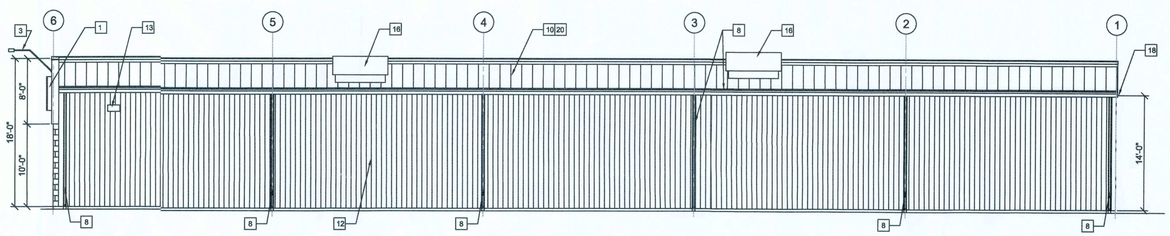

1 FRONT ELEVATION
A2 SCALE: 1/8" = 1'-0"




3 LEFT ELEVATION
A2 SCALE: 1/8" = 1'-0"




2 REAR ELEVATION
A2 SCALE: 1/8" = 1'-0"




4 RIGHT ELEVATION
A2 SCALE: 1/8" = 1'-0"

| PRE-ENGINEERED METAL BUILDING VENDOR | VP BUILDINGS ATTN: DAVID ENGLISH (901) 566-4537 | | | | | STAR BUILDING SYSTEMS ATTN: RODNEY BURT (800) 879-7827 | | | | | NUCOR BUILDING SYSTEMS ATTN: BOB BARRY (315) 622-4440 (260) 837-7691 | | | | | BIG BEE STEEL BUILDINGS, INC. ATTN: KEVIN BUSLER (800) 633-3378 | | | | | CHIEF BUILDINGS ATTN: ERIN SULLIVAN (800) 845-1767 | | | | | PREFERRED COLORS IF ALTERNATE EXTERIOR MATERIALS ARE USED INSTEAD OF METAL PANELS | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXTERIOR FINISHES<br>EXTERIOR FINISHES ARE TO MATCH OR BE EQUAL TO VP METAL BUILDING SYSTEM'S FINISH SELECTION UNLESSS AUTHORITY HAVING JURISDICTION DOES NOT ALLOW. | COOL EGYPTIAN WHITE | COOL DARK BRONZE | BRONZE | COOL CANYON WHITE | GALVALUME | LIGHTSTONE | MEDIUM BRONZE KYNAR 500 | BRONZE | POLAR WHITE | GALVALUME | LIGHTSTONE | MEDIUM BRONZE KYNAR 500 | BRONZE | POLAR WHITE | GALVALUME | SANDSTONE | BURNISHED SLATE | BRONZE | POLAR WHITE | GALVALUME | PARCHMENT | ANTIQUE BRONZE | BRONZE | POLAR WHITE | GALVALUME | SHERWIN WILLIAMS #7037 - "BALANCED BEIGE"<br>SHERWIN WILLIAMS #7041 - "VAN DYKE" | BRONZE | WHITE BY PEMB MANUFACTURER | GALVALUME |
| GUTTERS | ● | | | | | ● | | | | | ● | | | | | ● | | | | | ● | | | | | ● | | | | |
| DOWN SPOUTS | ● | | | | | ● | | | | | ● | | | | | ● | | | | | ● | | | | | ● | | | | |
| SIDE AND REAR METAL WALL PANELS & TRIM, RECEIVING & EMERGENCY EXIT DOORS (EXTERIOR OF DOORS TO BE PAINTED, REFER TO DOOR SCHEDULE) | ● | | | | | ● | | | | | ● | | | | | ● | | | | | ● | | | | | ● | | | | |
| ARCHITECTURAL BLOCK AT BUILDING FACADE TO BE PRE-FINISHED OR PAINTED (2 COATS-LOXON XP MASONRY COATING A24W400 SERIES) TO MATCH THE SIDE AND REAR METAL WALL PANELS | ● | | | | | ● | | | | | ● | | | | | ● | | | | | ● | | | | | ● | | | | |
| FLAT METAL SOFFIT AT STOREFRONT VESTIBULE AREA | | | | ● | | | | | ● | | | | | ● | | | | | ● | | | | | ● | | | | ● | |
| BUILDING FASCIA WALL, PARAPET OVER ENTRANCE, AND CANOPY | | ● | | | | | ● | | | | | ● | | | | | ● | | | | | ● | | | | | ● | | | |
| STOREFRONT SYSTEM | | | ● | | | | | ● | | | | | ● | | | | | ● | | | | | | ● | | | | | ● | | |
| STANDING SEAM METAL ROOF PANELS | | | | | ● | | | | | ● | | | | | ● | | | | | ● | | | | | ● | | | | | ● |
| LINER PANELS (INTERIOR SALES AND RECEIVING FLOOR) | | | | ● | | | | | ● | | | | | ● | | | | | ● | | | | | ● | | | | ● | |

NOTE:
1. REFER TO SHEET T01 FOR ADDITIONAL INFORMATIONON RECOMMENDED NATIONAL ACCOUNT VENDORS.
2. NATIONAL ACCOUNT AND CONTACT INFORMATION SUBJECT TO CHANGE.

## ELEVATION KEYED NOTES

1. SIGN FURNISHED AND INSTALLED BY DOLLAR GENERAL CORP. WITH CIRCUIT AS NOTED ON ELECTRICAL PLAN. SIGN TO BE CENTERED ON FRONT OF BUILDING. CONTRACTOR IS TO PROVIDE ADEQUATE BLOCKING AS REQUIRED BY SIGN MANUFACTURER TO SUPPORT SIGN WEIGHT OF UP TO 1,400 LBS. EXTERIOR CANOPY SIGN SHALL BE SUPPORTED BY THE FACE OF THE CANOPY. COORDINATE THE PROPER SIGNAGE TO BE USED WITH DOLLAR GENERAL.
2. NOT USED.
3. FLOOD LIGHT. REFER TO ELEC. DRAWINGS FOR ADDITIONAL INFO.
4. NOT USED
5. WALL PACK, REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
6. NOT USED
7. TRIM - SEE EXTERIOR FINISH SCHEDULE FOR COLOR.
8. GUTTER AND DOWNSPOUT - SEE EXTERIOR FINISH SCHEDULE FOR COLOR.
9. 8" SPLIT FACE CONCRETE MASONRY UNIT.
10. STANDING SEAM METAL ROOF.
11. PRE-FINISHED METAL WALL PANELS FOR THE FASCIA AND PARAPET OVER THE ENTRANCE. REVERSE RIB PROFILE .
12. PRE-FINISHED METAL WALL PANELS FOR THE SIDE AND REAR OF THE BUILDING. PROVIDE TAMPER-RESISTANT FASTENERS FOR BOTTOM 8'-0".
13. VENT FOR BATHROOM EXHAUST. REFER TO M01 FOR ADDITIONAL INFORMATION.
14. DOOR BUZZER. REFER TO E01 FOR ADDITIONAL INFORMATION.
15. NOT USED.
16. HVAC UNITS MOUNTED ON ROOF. REFER TO MECHANICAL SHEET M1 FOR MORE INFORMATION.
17. OUTSIDE AIR TEMP. SENSOR MOUNTED OVER RECEIVING DOORS @ 8'-0" A.F.F.
18. MINIMUM EAVE HEIGHT IS 14'-0" A.F.F.
19. FINISHED GRADE AT EXTERIOR WALLS SHALL BE A MINIMUM OF 6" BELOW FINISHED FLOOR AT ALL NON PAVED AREAS.
20. IN NORTHERN CLIMATES, PROVIDE SNOW GUARDS ON ROOF PER LOCAL CODE.
21. METAL CANOPY BY PRE-ENGINEERED METAL BUILDING MANUFACTURER. (ONLY APPLICABLE TO C & D PROTOTYPES)
22. 1/2" DIAMETER x 6" LONG STAINLESS STEEL EYE BOLTS (CLOSED) WITH 1" DIAMETER OPENINGS. DRILL AND EPOXY INTO BLOCK WALL. 4 BOLTS TO BE LOCATED AS SHOWN EACH SIDE OF ENTRY, TOTAL OF 8 BOLTS.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LAKE CITY, FL 32024

STORE # 19930
2018 PROTOTYPE - PLAN '9100E' - 9,100 SQ. FT.

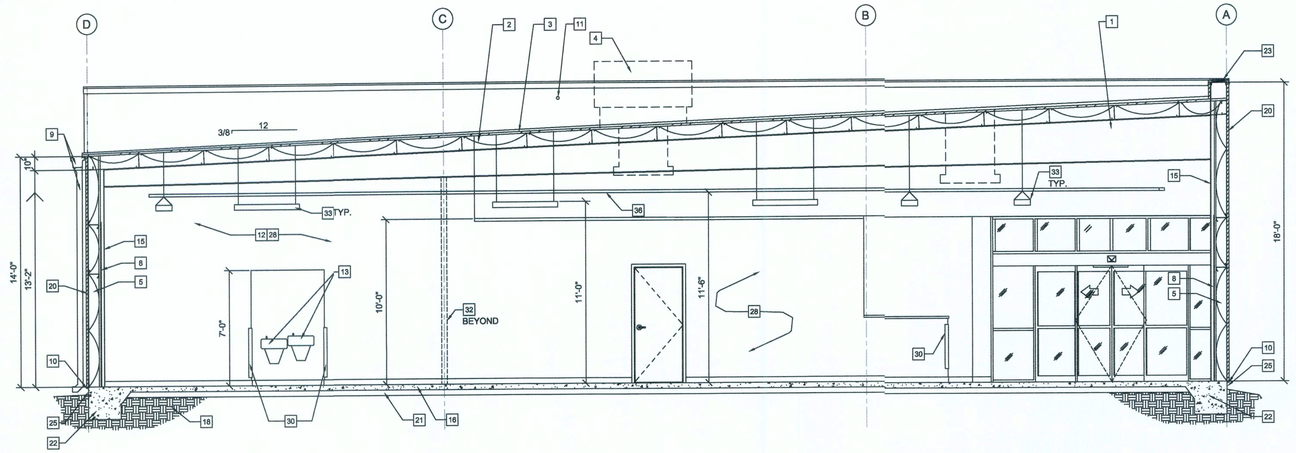
DRAWING DATE: / DRAWN BY:
4/5/19 - JEM

REVISION DATE: / REVISED BY:

PROJECT NUMBER:
4000.170

DRAWING TITLE:
EXTERIOR ELEVATIONS &
EXTERIOR FINISH SCHEDULE

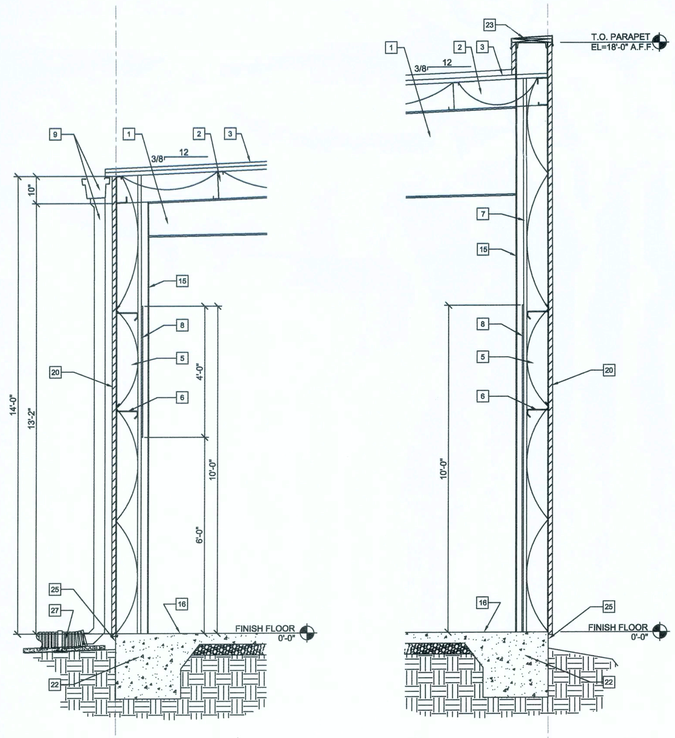
SHEET NO.
A2




1 A3 BUILDING SECTION
SCALE: 1/4" = 1'-0"

## SECTION KEYED NOTES

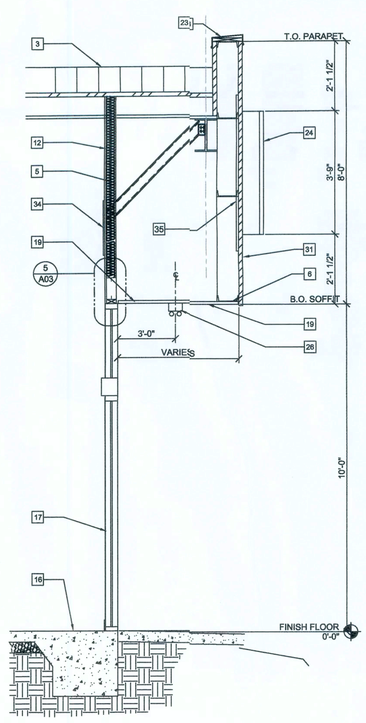
1. PRE-ENGINEERED METAL BUILDING SYSTEM BY BUILDING MANUFACTURER.
2. MIN. R-19 BATT INSULATION WITH R-5 THERMAL BLOCKS AT EACH PURLIN. (BY PEMB) - INSULATION SYSTEM TO LEAVE BOTTOM OF PURLINS EXPOSED FOR ATTACHMENTS - "SAG AND BAG" PREFERED, "LONG TAB/BANDED FILLED CAVITY" ACCEPTABLE.
3. STANDING SEAM METAL ROOF, GALVALUME FINISH (BY PEMB).
4. ROOF MOUNTED HVAC UNIT, SEE MECHANICAL DRAWINGS.
5. MINIMUM R-13 VINYL FACED BATT INSULATION (BY PEMB).
6. METAL BUILDING GIRT (BY PEMB).
7. VERTICAL METAL LINER PANELS, 28 GA.
8. 1/2" MINIMUM GYPSUM BOARD OVER LINER PANELS. METAL LINER PANELS TO DECK ABOVE; T.O. GYPSUM BOARD 10'-0" AFF, PAINTED. REFER TO INTERIOR SALES FLOOR ELEVATIONS.
9. PRE-FINISHED GUTTER & DOWNSPOUT.
10. PROVIDE METAL CLOSURE. SEAL & CAULK TO RODENT PROOF BUILDING.
11. LOCATION OF 1 1/2" CONDUIT WITH PULLSTRING (ABOVE OFFICE) FOR SATELLITE LINE. PROVIDE WEATHERTIGHT SEAL AT HORIZONTAL PENETRATION. CONTRACTOR RESPONSIBLE FOR INSTALLATION OF CONDUIT.
12. 1/2" MINIMUM GYPSUM BOARD ON 3 5/8" MTL STUDS, HEIGHT AS NOTED.
13. ADA COMPLIANT DRINKING FOUNTAIN, REFER TO PLUMBING.
14. NOT USED.
15. METAL BUILDING COLUMNS SHALL BE STRAIGHT.
16. REINFORCED CONCRETE SLAB ON VINYL VAPOR BARRIER.
17. ALUMINUM BI-PART DOOR AND STOREFRONT GLAZING SYSTEM, COLOR BRONZE.
18. UNDISTURBED EARTH AND COMPACTED SUB GRADE.
19. SOFFIT BEYOND (BY PEMB).
20. PRE-FINISHED METAL WALL PANELS (BY PEMB). PROVIDE TAMPER- RESISTANT FASTENERS 8'-0" AFF AND BELOW.
21. GRANULAR FILL.
22. REINFORCED CONCRETE FOTING. (REFER TO NOTES ON S2)
23. PREFINISHED METAL COPING.
24. STOREFRONT SIGN (BY DOLIAR GENERAL). REFER TO ELEVATIONS & STRUCTURAL NOTES FOR REQUIRED BLOCKING.
25. FINISH GRADE (NO SIDEWALKS) AT EXTERIOR WALLS SHALL BE A MINIMUM OF 6" BELOW FINISHED FLOOR.
26. LIGHTING, REFER TO ELECTRICAL DRAWINGS.
27. WHERE DOWNSPOUTS DISCHARGE ONTO GRADE (NO SIDEWALKS), MINIMUM 5'-0" LONG, 4" PERFORATED LANDSCAPE PIPE STRAPPED TO A 12"x24" CONCRETE SPLASH BLOCK SHALL BE INSTALLED TO PREVENT EROSION AROUND STRUCTURE.
28. INTERIOR WALL - PAINTED - SEE ROOM SCHEDULE FOR MORE INFORMATION.
29. 8" SPLIT-FACED CMU PAINTED SW 7037 "BALANCED BEIGE". ALIGN FACE OF BLOCK WITH STEEL GIRT. PROVIDE PROPER ANCHORAGE TO STRUCTURE.
30. MC CUE TRIM KIT.
31. PRE-FINISHED MEATL WALL PANELS, REVERSE-RIB PROFILE.
32. STEEL PIPE COLUMN (BY PEMB) WITH RECESSED BASEPLATE, WRAP WITH CARPET UP TO 48" AF.F.
33. 1'x4' LIGHT FIXTURES HUNG WITH AIRCRAFT CABLE, ADD UNISTRUT TO PURLINS AS REQUIRED FOR HANGING.
34. 20"X30" MINIMUM ACCESS PANEL FOR SIGNAGE JUNCTION BOX; COORDINATE LOCATION WITH ELECTRICAL DRAWINGS AND SIGNAGE VENDOR.
35. BLOCKING FOR BUILDING SIGNAGE. COORDINATE WITH SIGN VENDOR.
36. CABLE TRAY - SEE SHEET A0)



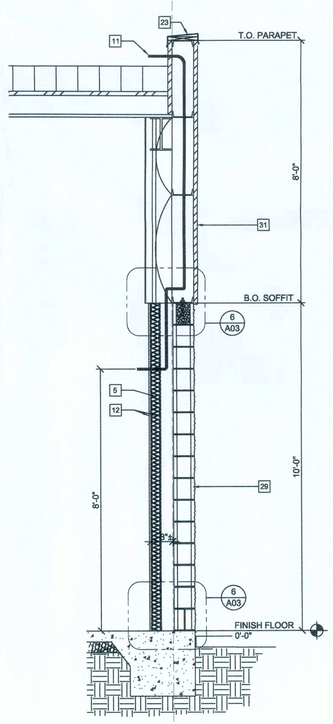

2A A3 WALL SECTION
SCALE: 1/2" = 1'-0"



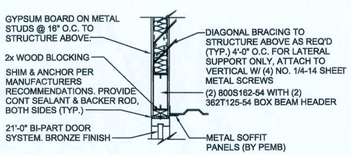

2B A3 WALL SECTION
SCALE: 1/2" = 1'-0"




3 A3 WALL SECTION
SCALE: 1/2" = 1'-0"

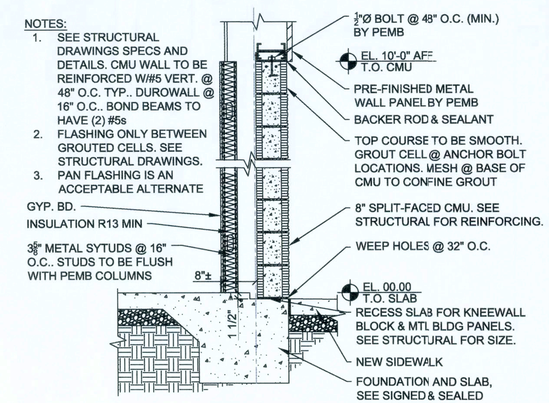



4 A3 WALL SECTION
SCALE: 1/2" = 1'-0"




6 A3 DETAIL
SCALE: 3/4" = 1'-0"

NOTES:
1. SEE STRUCTURAL DRAWINGS SPECS AND DETAILS. CMU WALL TO BE REINFORCED W/#5 VERT. @ 48" O.C. TYP.. DUROWALL @ 16" O.C.. BOND BEAMS TO HAVE (2) #5s
2. FLASHING ONLY BETWEEN GROUTED CELLS. SEE STRUCTURAL DRAWINGS.
3. PAN FLASHING IS AN ACCEPTABLE ALTERNATE




6 A3 DETAIL
SCALE: 3/4" = 1'-0"

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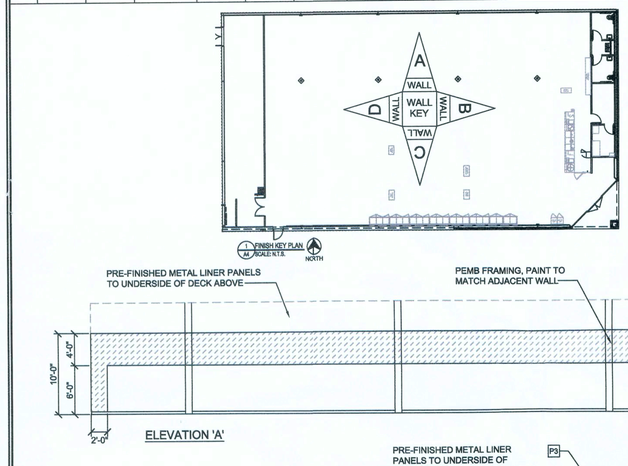
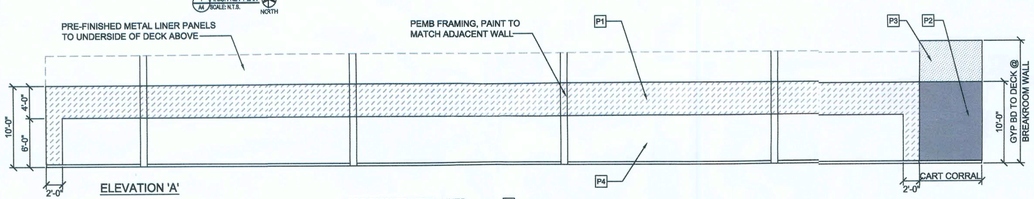
| |
|---|
| DRAWING DATE: / DRAWN BY: |
| 4/5/19 - JEM |
| REVISION DATE: / REVISED BY: |
| |
| PROJECT NUMBER: |
| 4000.170 |
| DRAWING TITLE: |
| SECTIONS & DETAILS |
| SHEET NO. |
| A3 |

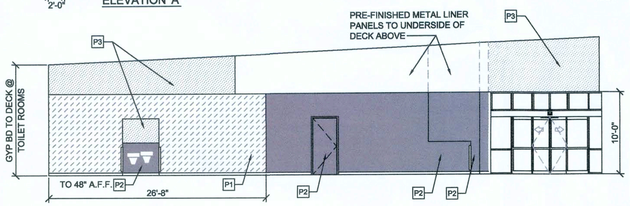
## ROOM SCHEDULE

| NO | ROOM NAME | FLOOR MATERIAL | FLOOR FINISH | BASE MATERIAL | BASE FINISH | A WALL MATERIAL | A WALL FINISH | B WALL MATERIAL | B WALL FINISH | C WALL MATERIAL | C WALL FINISH | D WALL MATERIAL | D WALL FINISH | CEILING MATERIAL | CEILING FINISH | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 100 | BREAK ROOM | SEALED CONCRETE | CONCRETE WITH SEALER | 4" RUBBER / VINYL BASE | BLACK | GYPSUM BOARD TO 10'-0"A.F.F. | SHERWIN WILLIAMS - SW7005-PURE WHITE, PRO-MAR LATEX SEMI-GLOSS. | GYPSUM BOARD TO 10'-0" A.F.F. | SHERWIN WILLIAMS - SW7005-PURE WHITE, PRO-MAR LATEX SEMI-GLOSS. | GYPSUM BOARD TO 10'-0" A.F.F. WHITE METAL LINER PANELS ABOVE | SHERWIN WILLIAMS - SW7005-PURE WHITE, PRO-MAR LATEX SEMI-GLOSS. | GYPSUM BOARD TO 10'-0" A.F.F. WHITE METAL LINER PANELS ABOVE | SHERWIN WILLIAMS - SW7005-PURE WHITE, PRO-MAR LATEX SEMI-GLOSS. | EXPOSED TO STRUCTURE ABOVE | N/A | |
| 101 | OFFICE | SEALED CONCRETE | CONCRETE WITH SEALER | 4" RUBBER / VINYL BASE | BLACK | GYPSUM BOARD TO 10'-0"A.F.F. | SHERWIN WILLIAMS - SW7005-PURE WHITE, PRO-MAR LATEX SEMI-GLOSS. | GYPSUM BOARD TO 10'-0" A.F.F. | SHERWIN WILLIAMS - SW7005-PURE WHITE, PRO-MAR LATEX SEMI-GLOSS. | GYPSUM BOARD TO 10'-0" A.F.F. WHITE METAL LINER PANELS ABOVE | SHERWIN WILLIAMS - SW7005-PURE WHITE, PRO-MAR LATEX SEMI-GLOSS. | GYPSUM BOARD TO 10'-0" A.F.F. | SHERWIN WILLIAMS - SW7005-PURE WHITE, PRO-MAR LATEX SEMI-GLOSS. | EXPOSED TO STRUCTURE ABOVE | N/A | |
| 102 | SALES AREA | POLISHED CONCRETE (STEPS 1-9) | POLISHED CONCRETE WITH SEALER | 4" RUBBER / VINYL BASE | BLACK | GYPSUM BOARD TO 10'0" A.F.F. ON WHITE METAL LINER PANELS | SHERWIN WILLIAMS, PRO-MAR LATEX SATIN. SEE ELEVS ON THIS SHEET. | GYPSUM BOARD TO 10'-0" A.F.F. ON WHITE METAL LINER PANELS | SHERWIN WILLIAMS, PRO-MAR LATEX SATIN. SEE ELEVS ON THIS SHEET. | GYPSUM BOARD TO 10'-0" A.F.F. ON WHITE METAL LINER PANELS | SHERWIN WILLIAMS, PRO-MAR LATEX SATIN. SEE ELEVS ON THIS SHEET. | GYPSUM BOARD TO HEIGHT INDICATED ON WALL SECTIONS | SHERWIN WILLIAMS, PRO-MAR LATEX SATIN. SEE ELEVS ON THIS SHEET. | EXPOSED TO STRUCTURE ABOVE | N/A | |
| 103 | RECEIVING AREA | SEALED CONCRETE | CONCRETE WITH SEALER | N/A | N/A | METAL LINER PANEL TO 8'-0" A.F.F. | WHITE | GYPSUM BOARD TO ROOF DECK | TAPED, PAINTED AS REQ'D BY CODE. METAL LINER PANEL TO DECK AS ALTERNATE. | GYPSUM BOARD TO ROOF DECK | TAPED, PAINTED AS REQ'D BY CODE. METAL LINER PANEL TO DECK AS ALTERNATE. | METAL LINER PANEL TO 8'-0" A.F.F. | WHITE | EXPOSED TO STRUCTURE ABOVE | N/A | |
| 104 | MENS | SEALED CONCRETE | SHERWIN WILLIAMS ACRYLIC SILICONE SILK CHOCOLATE HC-117. | 4" RUBBER / VINYL BASE | BLACK | GYPSUM BOARD TO 8'-0" A.F.F. | 8'-0" HIGH FIBERGLASS REINFORCED PANEL - "WHITE" | GYPSUM BOARD TO 8'-0" A.F.F. | 8'-0" HIGH FIBERGLASS REINFORCED PANEL - "WHITE" | GYPSUM BOARD TO 8'-0" A.F.F. | 8'-0" HIGH FIBERGLASS REINFORCED PANEL - "WHITE" | GYPSUM BOARD TO 8'-0" A.F.F. | 8'-0" HIGH FIBERGLASS REINFORCED PANEL - "WHITE" | GYP. BD OR ACT CEILING @ 8'-0" A.F.F. | WHITE | |
| 105 | WOMENS | SEALED CONCRETE | SHERWIN WILLIAMS ACRYLIC / VINYL SILICONE SILK CHOCOLATE HC-117 | 4" RUBBER / VINYL BASE | BLACK | GYPSUM BOARD TO 8'-0" A.F.F. | 8'-0" HIGH FIBERGLASS REINFORCED PANEL - "WHITE" | GYPSUM BOARD TO 8'-0" A.F.F. | 8'-0" HIGH FIBERGLASS REINFORCED PANEL - "WHITE" | GYPSUM BOARD TO 8'-0" A.F.F. | 8'-0" HIGH FIBERGLASS REINFORCED PANEL - "WHITE" | GYPSUM BOARD TO 8'-0" A.F.F. | 8'-0" HIGH FIBERGLASS REINFORCED PANEL - "WHITE" | GYP. BD OR ACT CEILING @ 8'-0" A.F.F. | WHITE | |
| 106 | VESTIBULE (WHEN REQUIRED) | POLISHED CONCRETE (STEPS 1-9) | POLISHED CONCRETE WITH SEALER | 4" RUBBER / VINYL BASE | BLACK | GYPSUM BOARD TO 10'-0"A.F.F. | SHERWIN WILLIAMS - SW6991 BLACK MAGIC, PRO-MAR LATEX SEMI-GLOSS. | GYPSUM BOARD TO 10'-0" A.F.F. | SHERWIN WILLIAMS - SW6991 BLACK MAGIC, PRO-MAR LATEX SEMI-GLOSS. | GYPSUM BOARD TO 10'-0" AFF | SHERWIN WILLIAMS - SW6991 BLACK MAGIC, PRO-MAR LATEX SEMI-GLOSS. | GYPSUM BOARD TO 10'-0" A.F.F. | SHERWIN WILLIAMS - SW6991 BLACK MAGIC, PRO-MAR LATEX SEMI-GLOSS. | GYP.; BD. AT 10'-0" A.F.F. | N/A | |
| 107 | HALLWAY | POLISHED CONCRETE (STEPS 1-9) | POLISHED CONCRETE WITH SEALER | 4" RUBBER / VINYL BASE | BLACK | GYPSUM BOARD TO ROO/ DECK | SHERWIN WILLIAMS - SW6991 BLACK MAGIC, PRO-MAR LATEX SEMI-GLOSS TO 48" AFF. SHERWIN WILLIAMS - SW7005 PURE WHITE, PRO-MAR LATEX SEMI-GLOSS ABOVE 48" AFF. | GYPSUM BOARD TO 10'-0" AFF | SHERWIN WILLIAMS - SW7005 PURE WHITE, PRO-MAR LATEX SEMI- GLOSS ABOVE 48" AFF. | GYPSUM BOARD TO 10'-0" AFF | SHERWIN WILLIAMS - SW6991 BLACK MAGIC, PRO-MAR LATEX SEMI-GLOSS TO 48" AFF. SHERWIN WILLIAMS - SW7005 PURE WHITE, PRO-MAR LATEX SEMI-GLOSS ABOVE 48" AFF. | GYPSUM BOARD TO 10'-0" AFF | SHERWIN WILLIAMS - SW6991 BLACK MAGIC, PRO-MAR LATEX SEMI-GLOSS TO 48" AFF. SHERWIN WILLIAMS - SW7005 PURE WHITE, PRO-MAR LATEX SEMI-GLOSS ABOVE 48" AFF. | EXPOSED TO STRUCTURE ABOVE | N/A | |




ELEVATION 'A'

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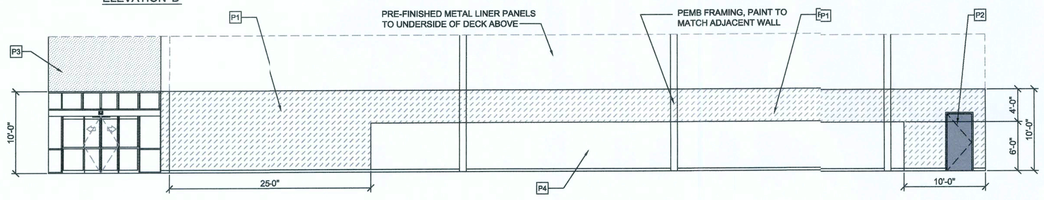
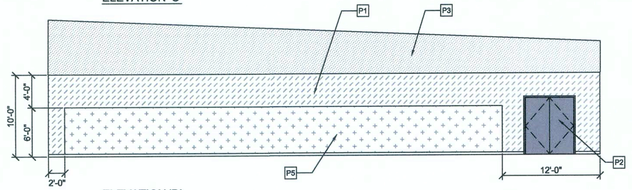



ELEVATION 'C'




ELEVATION 'D'

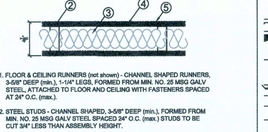
### WALL PAINT LEGEND

| | |
|---|---|
| P1 | SW6910 "DAISY" |
| P2 | SW6991 "BLACK MAGIC" |
| P3 | SW7005 "PURE WHITE" |
| P4 | EXPOSED LINER PANEL |
| P5 | DENOTES GYPSUM BOARD, TAPED AND MUDDED ONLY |

NOTE:
PAINT EXPOSED STRUCTURE SW7005 PURE WHITE

## UL DESIGN# U465/U419 or WP-1081

NONBEARING WALL RATING = 1hr.
(June 27, 2014)

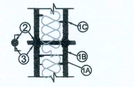



1. FLOOR & CEILING RUNNERS (not shown) - CHANNEL SHAPED RUNNERS, 3-5/8" DEEP (min.), 1-1/4" LEGS, FORMED FROM MIN. NO. 25 MSG GALV STEEL, ATTACHED TO FLOOR AND CEILING WITH FASTENERS SPACED AT 24" O.C. (max.).
2. STEEL STUDS - CHANNEL SHAPED, 3-5/8" DEEP (min.), FORMED FROM MIN. NO. 25 MSG GALV STEEL, SPACED 24" O.C. (max.) STUDS TO BE CUT 3/4" LESS THAN ASSEMBLY HEIGHT.
3. BATTS AND BLANKETS - (OPTIONAL) - MINERAL WOOL OR GLASS FIBER BATTS CUT TO FIT SNUGLY AND COMPLETELY FILLING STUD CAVITY.
4A. GYPSUM BOARD - NOM. 5/8" THICK GYPSUM PANELS eitBEVELED, SQUARE OR TAPERED EDGES, APPLIED VERTICALLY OR HORIZONTALLY. VERTICAL JOINTS CENTERED OVER STUDS AND STAGGERED ONE STUD CAMTY ON OPPOSITE SIDES OF STUDS. HORIZONTAL EDGE JOINTS AND HORIZONTAL BUTT JOINTS ON OPPOSITE SIDES OF STUDS NEED NOT BE STAGGERED BUT BACKED BY STEEL FRAMING. PANELS ARE ATTACHED TO STEEL STUDS AND FLOOR RUNNER w/1" LONG TYPE-S STEEL SCREWS SPACED AT 8" O.C. WHEN APPLIED HORIZONTALLY OR 8" O.C. ALONG VERTICAL AND BOTTOM EDGES AND 12" O.C. IN THE FIELD WHEN PANELS ARE APPLIED VERTICALLY. WHEN USED IN WIDTHS OTHER THAN 48", GYPSUM PANELS ARE TO BE INSTALLED HORIZONTALLY.
5. JOINT TAPE AND COMPOUND - VINYL, DRY OR PREMIXED JOINT COMPOUND, APPLIED IN NOT LESS THAN TWO COATS AND SCRIM HOLES; PAPER TAPE, 2" WIDE, EMBEDDED IN FIRST LAYER OF COMPOUND OVER ALL JOINTS. PAPER TAPE AND JOINT COMPOUND MAY BE OMITTED WHEN GYPSUM BOARDS ARE SUPPLIED WITH SQUARE EDGES.

* ONLY PRODUCTS WHICH BEAR UL'S MARK ARE CONSIDERED CERTIFIED.

## UL DESIGN# WL-1017

1hr. WALL PENETRATION
(June 27, 2014)

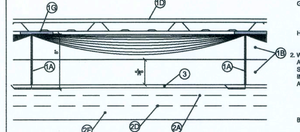


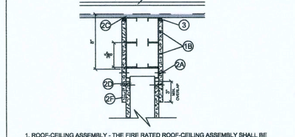

1. WALL ASSEMBLY - THE 1hr. FIRE RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS - WALL FRAMING WILL CONSIST OF STEEL CHANNEL STUDS. STEEL STUDS TO BE MIN. 3-5/8" WIDE x 1-3/8" DEEP CHANNELS SPACED AT 24" O.C.
   B. GYPSUM BOARD - NOM. 5/8" THICK, 4'-0" WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, NUMBER OF LAYERS AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL WALL ASSEMBLY. DIA. OF CIRCULAR THROUGH OPENING CUT THROUGH GYPSUM WALLBOARD ON EACH SIDE OF WALL ASSEMBLY TO BE MIN. 0" (POINT CONTACT) TO MAX. 1" LARGER THAN OUTSIDE DIA. OF FLEXIBLE METAL CONDUIT (ITEM 2) INSTALLED IN THROUGH OPENING. SIDE EDGE OF CIRCULAR OPENING TO BE A MIN. 3" FROM NEAREST STUD IN WALL CAVITY.
   C. FASTENERS - WHEN STEEL CHANNEL STUD FRAMING IS EMPLOYED, GYPSUM WALLBOARD ATTACHED TO STUDS WITH TYPE-S SELF-DRILLING, SELF-TAPPING BUGLE-HEAD STEEL SCREWS AS SPECIFIED IN THE INDIVIDUAL WALL ASSEMBLY.
2. THROUGH PENETRATING PRODUCT - FLEXIBLE METAL CONDUIT, NOM. 4" DIA. (OR SMALLER) ALUMINUM OR STEEL FLEXIBLE METAL CONDUIT*. MAX. ONE FLEXIBLE METAL CONDUIT TO BE INSTALLED NEAR CENTER OF CIRCULAR OPENING IN GYPSUM WALLBOARD. FLEXIBLE METAL CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.
   AFC CABLE SYSTEMS, INC.
3. FILL, VOID OR CAVITY MATERIAL* - CAULK - CAULK FILL MATERIAL FORCED INTO ANNULAR SPACE AROUND ENTIRE CIRCUMFERENCE OF THROUGH PENETRATING PRODUCT TO COMPLETELY FILL OPENING IN GYPSUM WALLBOARD LAYERS ON EACH SIDE OF THE WALL ASSEMBLY. A MIN. 5/8" THICKNESS OF CAULK IS REQUIRED FOR A 1hr. FIRE RATING.

3M COMPANY - CP 25WB+

## UL DESIGN# HW-D-0489

1hr. ROOF/CEILING ASSEMBLY - (February 11, 2008)

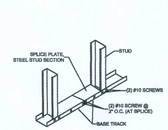


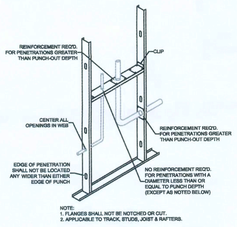

1. ROOF-CEILING ASSEMBLY - THE FIRE RATED ROOF-CEILING ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL P200 OR P500 SERIES ROOF-CEILING DESIGNS IN THE UL ROOFING MATERIALS AND SYSTEMS DIRECTORY AND SHALL INCLUDE THE FOLLOWING:
   A. PURLIN - MIN. 16ga. COATED STEEL, MAX SPACING AS SPECIFIED BY PEMB.
   B. LATERAL BRACING (CRIPPLES) - MIN. 16ga. COATED STEEL STRAP, CHANNEL, ANGLE OR OTHER STRUCTURAL SHAPE INSTALLED WHERE REQUIRED FOR LATERAL SUPPORT OF STUDS. ATTACHED TO STEEL PURLINS ON EACH SIDE OF WALL ASSEMBLY WITH WELDS OR WITH MIN. #14 SELF-TAPPING, HEX-HEAD, PLATED STEEL OR STAINLESS STEEL SCREWS.
   C. BATTS AND BLANKETS - INSULATION - ANY FACED OR COMPRESSIBLE GLASS-FIBER BLANKET INSULATION HAVING A MIN. 8" THICKNESS BEFORE COMPRESSION AND A MIN. DENSITY OF 0.6 pcf. INSULATION DRAPED OVER PURLINS PRIOR TO INSTALLATION OF PANEL CLIPS (ITEM 1F) ANCHOR METAL ROOF DECK PANELS (ITEM 1D) SIDE EDGES OF THE BATTS SHALL BE BUTTED OR OVERLAPPED A MAX. OF 2".
   D. METAL ROOF DECK PANELS - MIN. 26ga. COATED STEEL. PANELS CONTINUOUS OVER TWO OR MORE SPANS. ROOF PANEL END LAPS, IF REQ'D., CENTERED OVER PURLINS WITH MIN. 3" PANEL OVERLAP AS SPECIFIED IN THE INDIVIDUAL ROOF-CEILING DESIGN. A LINE OF TUBE SEALANT OR TAPE SEALANT MAY BE USED AT PANEL END AND SIDE LAPS.
   E. FASTENERS - FASTENERS TO BE USED FOR THE PANEL-TO-PURLIN AND PANEL-TO -PANEL CONNECTIONS TO BE SELF-TAPPING, HEX-HEAD, PLATED STEEL OR STAINLESS STEEL SCREWS WITH EITHER AN INTEGRAL OR A SEPARATE STEEL WASHER FITTED WITH A COMPRESSIBLE SEALING WASHER. FASTENER TYPE, LENGTH, PILOT HOLE DIAM. AND SPACING TO BE AS SPECIFIED.
   F. ROOF DECK FASTNERS - PANEL CLIPS - (NOT SHOWN) PANEL CLIPS USED FOR PANEL-TO-PURLIN CONNECTIONS TO BE SECURED TO PURLIN THROUGH INSULATION AS SPECIFIED.

3M COMPANY - CP 25WB+

2. WALL ASSEMBLY - THE 1hr. FIRE-RATED GYPSUM BOARD/STEEL STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U400OR V400 SERIES WALL AND PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING:
   A. CEILING DEFLECTION CHANNEL - U-SHAPED CHANNEL FORMED FROM MIN. 16ga. STEEL SIZED TO ACCOMMODATE STEEL STUDS (ITEM 2C) AND FORCED WITH 5" FLANGES. DEFLECTION CHANNEL INSTALLED PARALLEL WITH AND BETWEEN PURLINS AND SECURED TO LATERAL BRACING (ITEM 1B) WITH MIN. #14 SELF-TAPPING, HEX-HEAD, PLATED STEEL OR STAINLESS STEEL SCREWS.
   B. STEEL FLOOR AND CEILING RUNNERS - FLOOR RUNNER OF THE WALL ASSEMBLY AND THE FLOOR AND CEILING RUNNERS OF THE CRIPPLE WALL ABOVE THE WALL ASSEMBLY SHALL CONSIST OF MIN. 1-1/4" DEEP MIN. 25ga. GALV. STEEL CHANNELS SIZED TO ACCOMMODATE STEEL STUDS (ITEM 2D). FLOOR RUNNER OF CRIPPLE WALL ALIGNED WITH AND SCRW-ATTACHED TO TOP OF CEILING DEFLECTION CHANNEL. CEILING RUNNER OF CRIPPLE WALL INSTALLED TO COMPRESS INSULATION (ITEM 1G) AND PACKING MATERIAL (ITEM 2C) TO MIN. THICKNESS OF 3/8" AND 1" RESPECTIVELY, BY WEDGING LENGTHS OF STUD (ITEM 2D) BETWEEN THE RUNNERS. STEEL STUDS OF CRIPPLE WALL ATTACHED TO FLOOR AND CEILING RUNNERS WITH STEEL SCREWS.
   C. BATTS AND BLANKETS - PACKIN MATERIAL - UNFACED COMPRESSIBLE MINERAL WOOL BATT INSULATION HAVINGA NOM. 2" THICKNESS BEFORE COMPRESSION AND A NOM. DENSITY OF 4pcf STRIPS OF NOM. 2" THICK CUT TO WIDTH OF CRIPPLE WALL CEILING RUNNER AND COMPRESSED MIN. 50% IN THICKNESS BETWEEN CRIPPLE WALL CEILING RUNNER AND INSULATION (ITEM 1C). COMPRESSION OF MINERAL WOOL BATT PACKING MATERIAL TO RESULT IN COMPRESSION OF INSULATION (ITEM 1C) TO NOM. 5/8" THICKNESS. WHEN WIDTH OF METAL ROOF DECK PANELS (ITEM 1D) ISIS EXCEEDS 2".
   D. STUDS - STEEL STUDS TO BE MIL 3-1/5" WIDE. STUDS CUT MAX 2" LESS IN LENGTH THAN ASSEMBLY HEIGHT BENEATH PURLINS WITH BOTTOM RESTING IN AND RESTING ON THE FLOOR RUNNER AND WITH TOP NESTING IN CEILING DEFLECTION CHANNEL WITHOUT ATTACHMENT. STUD SPACING NOT TO EXCEED 24" O.C. STUDS OF CRIPPLE WALL CUT TO LENGTH AS REQ'D. TO COMPRESS PACKING MATERIAL (ITEM 2C) AND INSULATION (ITEM 1C) TO MIN. THICKNESS OF 1" & 3/8", RESPECTIVELY. STUDS SPACEDMAX. 24" O.C.
   E. GYPSUM BOARD - MIN. 5/8" THICK GYPSUM BOARD SHEETS INSTALLED ON EACH SIDE OF WALL. WALL TO BE CONSTRUCTED AS SPECIFIED IN THE INDIVIDUAL U400 OR V400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY EXCEPT THAT A MAX. 2" WIDE GAP SHALL BE MAINTAINED BETWEEN THE GYPSUM BOARD OF THE WALL ASSEMBLY AND THE GYPSUM BOARD OF THE CRIPPLE WALL. TOP EDGE OF GYPSUM BOARD OF WALL ASSEMBLY TO BE MAX. 2" BELOW TOP OF CEILING DEFLECTION CHANNEL.BOTTOM EDGE OF CRIPPLE WALL GYPSUM BOARD TO BE FLUSH WITH TOP OF CEILING DEFLECTION CHANNEL. SCREWS SECURING GYPSUM BOARD TO STEEL STUDS OF WALL ASSEMBLY TO BE LOCATED 3-1/4" TO 2-1/2" BELOW FLANGE OF CEILING DEFLECTION CHANNEL. SCREWS SECURING GYPSUM BOARD OF CRIPPLE WALL TO BE DRIVEN INTO STUDS AND RUNNERS OF CRIPPLE WALL. NO SCREWS ARE TO BE DRIVEN INTO FLANGES OF CEILING DEFLECTION CHANNEL.
   F. GYPSUM BOARD - MIN. 5/8" THICK 'RIP-STRIP' OF GYPSUM BOARD INSTALLED TO COVER FIRST LAYER OF GYPSUM BOARD ON CRIPPLE WALL AND TO LAP MIN. 3" ONTO GYPSUM BOARD OF WALLASSEMBLY ON EACH SIDE OF WALL. THE 'RIP-STRIP' OF GYPSUM BOARD IS TC BE THE SAME MATERIAL USED FOR THE WALL ASSEMBLY AND IS TO BE SECURED TO THE STUDS AND RUNNERS OF THE CRIPPLE WALL. NO SCREWS ARE 'TO BE DRIVEN INTO FLANGES OF CEILING DEFLECTION CHANNEL. JOINTS OF 'RIP-STRIP' TO BE OFFSET FROM JOINTS OF GYPSUM BOARD ON WALL ASSEMBLY.
3. FILL, VOID OR CAVITY MATERIAL* - CAULK - MIN. 5/8" THICKNESS OF FILL MATERIAL INSTALLED TO FILL ANY GAP BETWEEN TOP OF CRIPPLE WALL GYPSUM BOARD AND INSULATION (ITEM 1C) ON EACH SIE OF THE WALL. ADDITIONAL CAULK INSTALLED TO FILL ANNULAR SPACE BETWEEN LATERAL BRACING AND GYPSUM BOARD 'RIP-STRIP' (ITEM 2F) ON BOTH SIDES OF WALL. ADDITIONAL NOM 1/2" DIA. BEAD OF CAULK TO BE APPLIED AROUND PERIMETER OF LATERAL BRACE AT ITS INTERFACE WITH THE 'RIP-STRIP' ON EACH SIDI OF THE WALL.

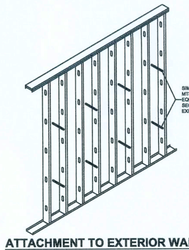



TRACK SPLICE



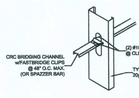

NOTE:
1. FLANGES SHALL NOT BE NOTCHED OR CUT.
2. APPLICABLE TO TRACK, STUDS, JOIST & RAFTERS.

STUD WEB PENETRATIONS

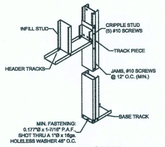



NOTES:
1) RIGID FACING MATERIAL APPLIED TO BOTH FLANGES MAY BE UTILIZED IN LIEU OF U-CHANNEL, PROVIDED THE FOLLOWING CRITERIA:
   A) STUD HEIGHT DOES NOT EXCEED 16'
   B) SHEATHING APPLIED TO BOTH STUD FLANGES FULL HEIGHT PER APPLICABLE ASTM STANDARDS.
   C) STUD SHALL BE BRACED IF ONE FLANGE IS TEMPORARILY UNRESTRAINED.

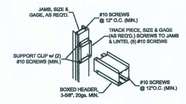
ATTACHMENT TO EXTERIOR WALLS



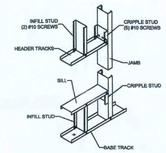

THRU STUD BRIDGING



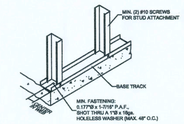

JAMB STUD



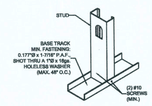

HEADER DETAIL



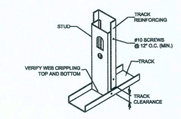

WINDOW FRAMING



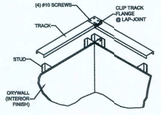

BOTTOM TRACK ANCHOR



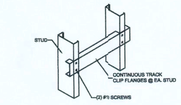

STUD TO TRACK



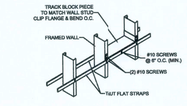

REINFORCED STUD TO TRACK




CORNER TRACK LAP




BACKING CLIPPED TRACK




BRIDGING DOUBLE FLAT-STRAP

### COLD FORMED METAL FRAMING:

1. ALL COLD FORMED METAL FRAMING SHALLBE DOMESTIC A.S.T.M A653 (Fy=50 k.s.i) STEEL AND DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE SPECIFICATION FOR DESIGN, FABRICATION AND ERECTION OF COLD FORMED METAL FRAMING AND THE S.S.M.A. CODE OF STANDARD PRACTICE.
2. ALL CFMF COMPONENTS SHALL BE MANUFACTURED AS PER ASTM A653 WITH A MINIMUM G60 ZINC COATING AND SHALL BE PRIMED. ALL PRODUCTS SHALL BE FREE OF RUST, BURTS, BENDS & TWISTS AND STORED ON A FLAT PLANE PRIOR TO XCLUSION IN WORK.
3. BOTTOM TRACK SHALL BE SECURED TO THE CONCRETE FOUNDATION with MIN. 0.177"Ø x 1-7/16" P.A.F. (POWDER ACTUATED FASTENER), SHOT THROUGH A 1"Ø x 16ga. HOLELESS WASHEL.

NOTE - WELDING IS AN ALTERNATE TO THE CONNECTIONS SHOWN - NONE OF THE COLD FORMED METAL FRAMING IS LOAD BEARING. PEMB (PRE-ENGINEERED METAL BUILDING) IS THE STRUCTURAL SUPPORT AND DESIGN FOR THE ENTRE BUILDING.


JAMES BLYTHE
REGISTERED ARCHITECT
RA LEED AP BD+C
3324 W. UNIVERSITY AVE
PMB#151
GAINESVILLE, FL 32607
AR94452



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WWW.CONCEPTCOMPANIES.NET


DOLLAR GENERAL
2144 SW BIRLEY AVE.
LAKE CITY, FL 32024
STORE # 19930
2018 PROTOTYPE - PLAN 910DE - 9,100 SQ. FT.

DRAWING DATE: / DRAWN BY:
4/5/19 - JEM

REVISION DATE: / REVISED BY:

PROJECT NUMBER:
4000.170

DRAWING TITLE:
ROOM FINISH SCHEDULE & SALES FLOOR ELEVATIONS

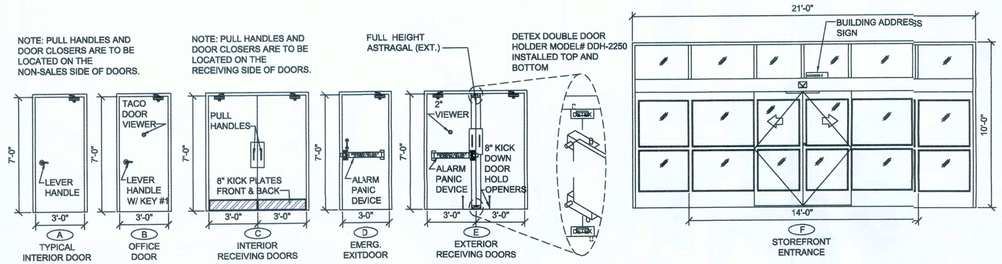
SHEET NO.
A4

## DOOR SCHEDULE

| NO. | Type | SIZE W | SIZE H | SIZE T | DETAILS HEAD | DETAILS JAMB | DOOR HARDWARE | REMARKS |
|---|---|---|---|---|---|---|---|---|
| 100 | A | 3' - 0" | 7' - 0" | 1 3/4" | 6/A6 | 5/A6 | (1-1/2 PAIR HNGES), (1) STANLEY PASSAGE LOCKSET QCL230-E-626-S4 - NO KEY REQUIRED, (1) STANLEY DOOR CLOSER QDC311-689, (1) IVES WALL STOP #402-1/2B-26D | SOLID CORE WOOD DOOR OR HOLLOW CORE METAL DOOR PAINTED SW6991, BLACK MAGIC (SEMI-GLOSS). |
| 101 | B | 3' - 0" | 7' - 0" | 1 3/4" | 6/A6 | 5/A6 | (1-1/2) PAIR HNGES, (1) STANLEY STOREROOM LOCKSET QCL270-E-626-S4-SC-KD - KEY #1, (1) STANLEY JOOR CLOSER QDC311-689, (1) IVES WALL STOP #402-1/2B-26D, (1) TACO DOOR VIEWER #TA3310PC. | SOLID WOOD DOOR OR HOLLOW CORE METAL DOOR PAINTED SW6991, BLACK MAGIC (SEMI-GLOSS). |
| 102 | D | 3' - 0" | 7' - 0" | 1 3/4" | 3/A6 | 2/A6 | (1-1/2) PAIR HNGES, (1) VON DUPRIN GUARD-X EXIT ALARM LOCK #2670-28, (1) STANLEY JOOR CLOSER QDC311-689, (1) DOOR PULL 8N US28, (1) DOOR SWEEP, WEATHERSTRIPPING, (1) 7015SC8-26D-RIM CYLINDER | HOLLOW CORE METAL DOOR. PAINT EXTERIOR SW7041, VAN DYKE BROWN (SEMI-GLOSS); PAINT INTERIOR SW6991, BLACK MAGIC (SEMI-GLOSS). |
| 103A | C | 6' - 0" | 7' - 0" | 1 3/4" | 6/A6 | 5/A6 | (3) PAIR HINGES, (2) BURNS PULL PLATES #5410-32D-26D-GRIP, (2) BURNS PLSH PLATES #54-US32D, (4) IVES KICK PLATES #8400-S32D-8X34 (2) STANLEY JOOR CLOSERS QDC311-689, (2) IVES 4" DOOR HOLDER #452B26D - IF NOT FIRE RATED WALL. | FIRE RATED DOORS IF REQUIRED BY CODES, SOLID CORE WOOD DOOR OR HOLLOW METAL DOOR PAINTED SW6991, BLACK MAGIC (SEMI-GLOSS). |
| 103B | E | 6' - 0" | 7' - 0" | 1 3/4" | 3/A6 | 2/A6 | (3) PAIR HINGES, (1) VON DUPRIN GUARD-X EXIT ALARM LOCK #2670-28, (1) VON DUPRIN GUARD-X DOUBLE DOOR STRIKE #2609, (1) DETEX DOUBLE DOOR HOLDER #DDH-2250 TOP & BOTTOM, (2) STANLEY JOOR CLOSERS QDC311-689 (2) BURNS PULL PLATES #5410-32D-26D-GRIP, (1) 2" DOOR SCOPE #DS/1000MB, (2) 8" DOOR HOLDERS #608Z, (1) NATIONAL GUARD HD THRESHOLD #425 HD-6 FT., (2) DOOR SWEEPS, WEATHERSTRIPPING. (1)7015SC8-26D RIM CYLINDER | HOLLOW CORE METAL DOOR. PAINT EXTERIOR SW7041, VAN DYKE BROWN (SEMI-GLOSS); PAINT INTERIOR SW6991, BLACK MAGIC (SEMI-GLOSS). |
| 104 | A | 3' - 0" | 7' - 0" | 1 3/4" | 6/A6 | 5/A6 | (1-1/2) PAIR HINGES, (1) STANLEYSTOREROOM LOCKSET QCL270-E-626-S4-SC-KD - KEY #2, (1) STANLEYJOOR CLOSER QDC311-689, (1) IVES WALL STOP #402-1/2B-26D. | SOLID WOOD DOOR OR HOLLOW CORE METAL DOOR PAINTED SW6991, BLACK MAGIC (SEMI-GLOSS). |
| 105 | A | 3' - 0" | 7' - 0" | 1 3/4" | 6/A6 | 5/A6 | (1-1/2) PAIR HINGES, (1) STANLEYSTOREROOM LOCKSET QCL270-E-626-S4-SC-KD - KEY #2, (1) STANLEYDOOR CLOSER QDC311-689, (1) IVES WALL STOP #402-1/2B-26D. | SOLID WOOD DOOR OR HOLLOW CORE METAL DOOR PAINTED SW6991, BLACK MAGIC (SEMI-GLOSS) |
| 106 | F | 6' - 0" | 7' - 0" | | — | --- | BY DOOR MANUFACTURER TO BE RE-KEYED BY DOLLAR GENERAL AREA MANAGER WITH (1) ILCO RIM CYLINDER #7015SC8-26D. | 21'-0" BI-PART WITH TRANSOM AND GLASS. BRONZE FINISH; REFER TO COVER SHEET FOR VENDOR INFORMATION. |

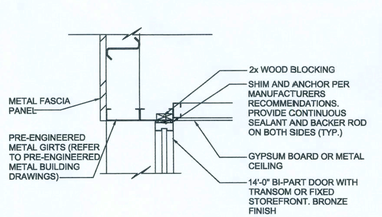
DOOR 103A-FIRE-RATED DOOR HARDWARE:
(3) HINGES COMPATIBLE WITH FIRE RATING
(2) SVR EXIT QED316-36"-7FT-689
(1) EXIT TRIM QRT330-E-SC-KD-689
(2) BURNS PULL PLATES #5410-32D-26D-GRIP,
(2) BURNS PUSH PLATES #54-US32D, (4) IVES KICK PLATES #8400-S32D-8X34
(2) STANLEY DOOR CLOSERS QDC311-689.

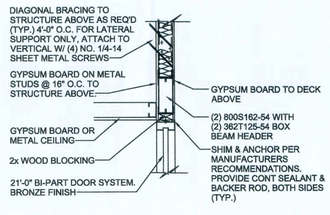
NOTE:
ALL EXTERIOR MATERIALS SHALL BE RATED FOR 119 MPH HURRICANE FORCE WINDS. RISK CATERGORY 2.

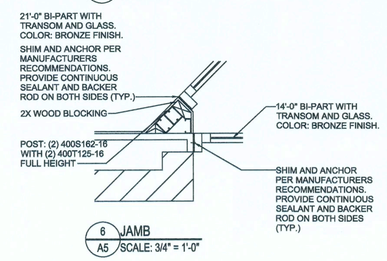


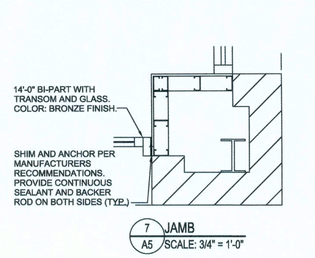







JAMES BLYTHE
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RA LEED AP BD+C
3324 W. UNIVERSITY AVE
PMB#151
GAINESVILLE, FL. 32607
AR94452

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TITLE BLOCK.

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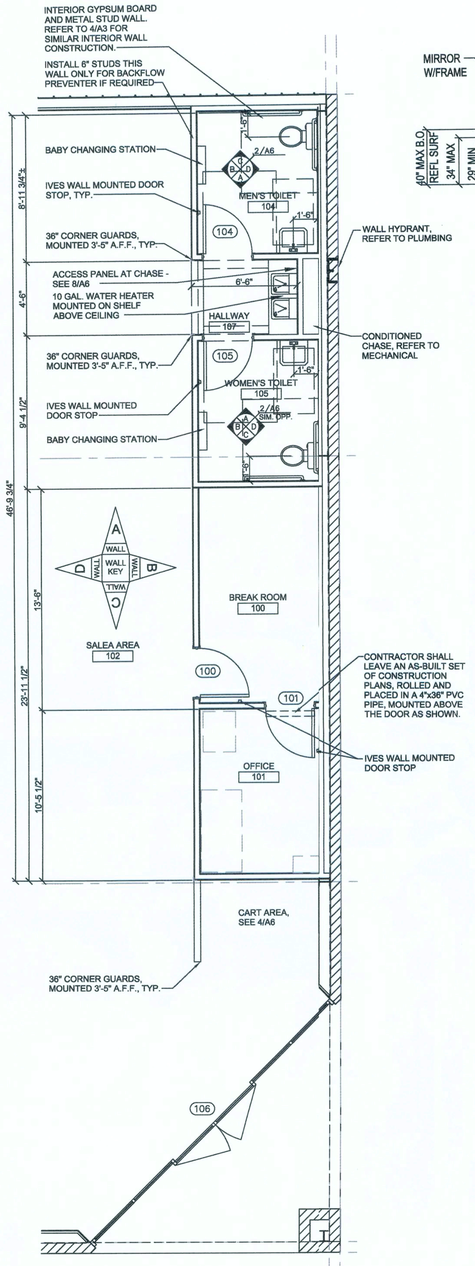
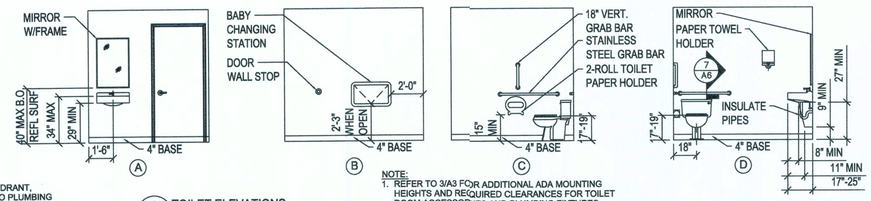
DOLLAR GENERAL®
2144 SW BIRLEY AVE.
LAKE CITY, FL 32024
STORE # 19580
2018 PROTOTYPE - PLAN 9100E - 9,100 SQ. FT.

DRAWING DATE: / DRAWN BY:
4/5/19 - JEM
REVISION DATE: / REVISED BY:
PROJECT NUMBER:
4000.170
DRAWING TITLE:
DOOR SCHEDULES & DETAILS
SHEET NO.
A5



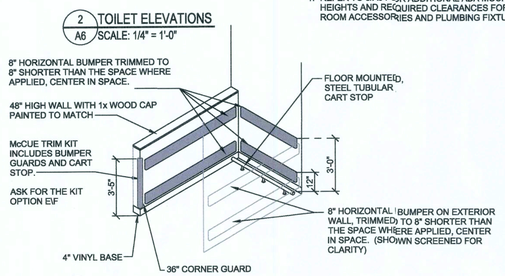

1 / A6 TOILET/OFFICE/BREAK ROOM PLAN
SCALE: 1/4" = 1'-0"

NORTH

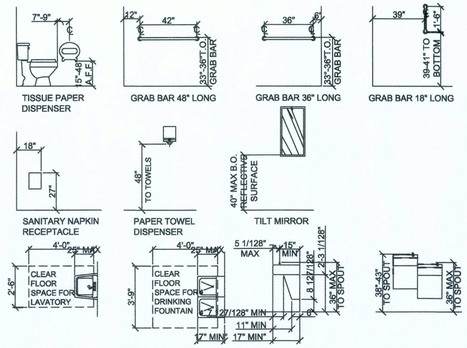



NOTE:
1. REFER TO 3/A3 FOR ADDITIONAL ADA MOUNTING HEIGHTS AND REQUIRED CLEARANCES FOR TOILET ROOM ACCESSORIES AND PLUMBING FIXTURES.

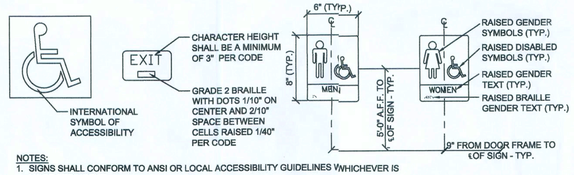
2 / A6 TOILET ELEVATIONS
SCALE: 1/4" = 1'-0"




4 / A6 CART STOP DETAIL
SCALE: 1/4" = 1'-0"

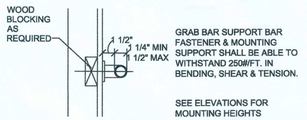



3 / A6 ACCEISBILITY CLEARANCE & HEIGHTS
SCALE: 1/4" = 1'-0"

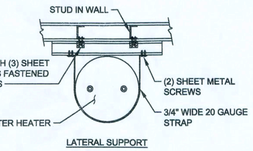



NOTES:
1. SIGNS SHALL CONFORM TO ANSI OR LOCAL ACCESSIBILITY GUIDELINES WHICHEVER IS MORE STRINGENT.
2. ALL BUILDINGS AND ENTRANCES THAT ARE ACCESSIBLE AND USABLE BY PERSONS WITH DISABILITIES SHALL BE IDENTIFIED WITH A MINIMUM OF ONE INTERNATIONAL SYMBOL OF ACCESSIBILITY.
3. G.C. TO PROVIDE TACTILE "EXIT" SIGNS AT ALL GRADE LEVEL EXIT DOORS PER CODE.
4. SIGNS TO BE INSTALLED ON THE LATCH SIDE OF THE DOOR, OR IF NO SPACE ON THE NEAREST WALL PREFERABLY ON THE RIGHT. SIGNAGE SHALL HAVE NON GLARE FINISH W/ A CONTRASTING BACKGROUND.

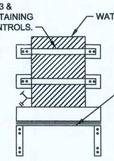
6 / A6 ACCESIBLE SIGNAGE
SCALE: 1-1/2" = 1'-0"




7 / A6 GRAB BAR DETAIL
SCALE: 1-1/2" = 1'-0"




SHELF MOUNTED WATER HEATER STRAP TO WALL AS INDICATED.
(1) STRAP ON THE UPPER 1/3 &
(1) ON THE LOWER 1/3 MAINTAINING A MINIMUM OF 4" FROM CONTROLS.




INSTALL WATER HEATER ABOVE MOP SINK UPON 8" 20 GA. STEEL STUD JOISTS SPACED 8" O.C. SPANNING SURROUNDING WALLS AT 7'-6" A.F.F. AT MOP SINK AND ABOVE CEILING AT HALLWAY. COORDINATE STRUCTURAL SUPPORT FRAMING WITH G.C.

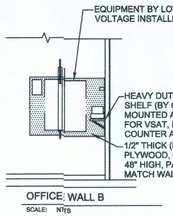
8 / A6 WATER HEATER SHELF
SCALE: N.T.S.

## TOILET ROOM ACCESSORIES

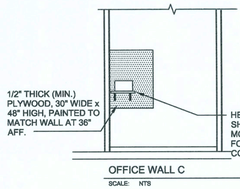
| | |
|---|---|
| B2740 | BOBRICK DOUBLE TOILET TISSUE DISPENSER |
| B253 | BOBRICK PAPER TOWEL DISPENSER |
| A-24x36 | GAMCO 24" x 36" ANGLE FRAME MIRROR |
| 1503x36 | GAMCO 1 1/2" X 36" GRAB BAR |
| 1503x42 | GAMCO 1 1/2" X 42" GRAB BAR |
| 1503x18 | GAMCO 1 1/2" X 18" GRAB BAR |
| MS-1 | GAMCO MOP HOLDER |
| | |

## TOILET ROOM NOTES:

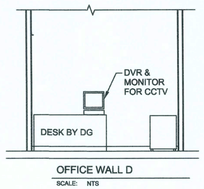
1. ALL TOILET ROOM ACCESSORIES PROVIDED BY CONTRACTOR.
2. ALL STORES MUST INCLUDE 2 REST ROOMS, EVEN WHEN NOT REQUIRED BY CODE. ANY VARIATION MUST BE APPROVED, IN WRITING, BY THE DOLLAR GENERAL CONSTRUCTION DEPARTMENT.
3. RESTROOMS MUST COMPLY WITH ALL BUILDING (FEDERAL, STATE, AND LOCAL) FIRE, AND HEALTH DEPARTMENT CODES. ADA REQUIREMENTS MUST ALSO BE MET IN BOTH RESTROOMS. SOME CODES MAY REQUIRE ADDITIONAL TOILETS OR LAVATORIES. PLEASE CONTACT DOLLAR GENERAL CONSTRUCTION DEPARTMENT FOR ALTERNATE PLANS FOR THESE SITUATIONS.
4. PROVIDE AND INSTALL 2'x3' MIRROR (OR LARGER IF REQUIRED BY CODE).
5. CONTRACTOR TO INSTALL SOAP DISPENSERS, TOILET PAPER HOLDERS, DOOR CLOSER, EXHAUST FANS, AND ALL BASS SECURITY PARTS IN BOTH RESTROOMS. PROVIDE SOLID BLOCKING IN WALL FOR SUPPORT.



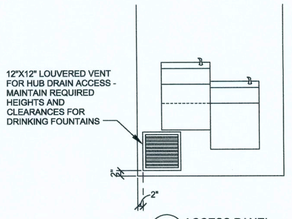

OFFICE: WALL B
SCALE: NTS




OFFICE WALL C
SCALE: NTS




OFFICE WALL D
SCALE: NTS




10 / A6 ACCESS PANEL
SCALE: 1/2" = 1'-0"

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DOLLAR GENERAL
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STORE # 19930
2018 PROTOTYPE - PLAN 9100E - 9,100 SQ. FT.

DRAWING DATE: / DRAWN BY:
4/5/19 - JEM
REVISION DATE: / REVISED BY:
PROJECT NUMBER:
4000.170
DRAWING TITLE:
RESTROOM PLANS
SHEET NO.
A6

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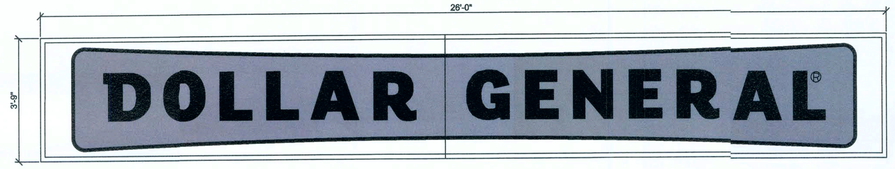
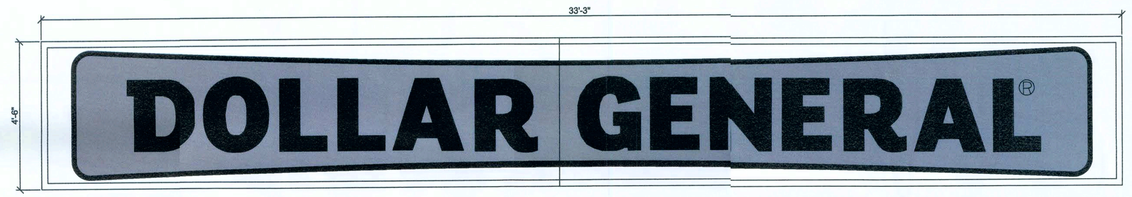



PROTOTYPICAL MAIN BULDING SIGN FOR 'A', 'B', 'E' & 'F' SCHEMES




PROTOTYPICAL MAIN BULDING SIGN FOR 'C' & 'D' SCHEMES

THIS SIGN IS TO BE PROVIDED AND INSTALLED BY THE DEVELOPER OR CONTRACTOR AT THE BEGINNING OF CONSTRUCTION PROJECT.

## SIGN SPECIFICATIONS

1. BUILDING SIGNS: PROVIDE CONDUIT AND WIRE FROM ELECTRICAL PANEL TO THE SIGN CANOPY. THE CONDUIT IS TO BE 1" AND HAVE ONE SET OF 10/2 WIRE WITH GROUND. BUILDING CANOPY MUST BE SUFFICIENTLY BUILT TO SUPPORT THE DOLLAR GENERAL SIGN OF UP TO 1400 LBS. NOTE: IF THE LEASE SPECIFIES A 5'-0" X 40'-0" BUILDING SIGN OR 24" LETTER SET (OR LARGER), 2 qty. - 10/2 WIRE WITH GROUND.
2. PYLON SIGNS: PROVIDE CONDUIT FROM ELECTRICAL PANEL TO LOCATION OF THE PYLON SIGN BASE. BURY CONDUIT UNDER PARKING AREA. THE CONDUIT IS TO BE 1" AND HAVE ONE SET OF 10/2 WIRE WITH GROUND.
3. FINAL ELECTRICAL CONNECTIONS FOR SIGN SHALL BE THE SIGN VENDORS RESPONSIBILITY SINCE THE 'J' BOX AND WIRES ARE IN PLACE.
4. SEE CHART ABOVE FOR SIGN SPECIFICATIONS.
5. SEE SHEET A8 FOR SIGN BRACING DETAILS.
6. PYLON SIGN CABINETS TO CLEAR 15' FROM GRADE AND EDGE SHALL BE LOCATED NO CLOSER THAN 10' TO ANY OVERHEAD UTILITY LINES.

**Building Signs**

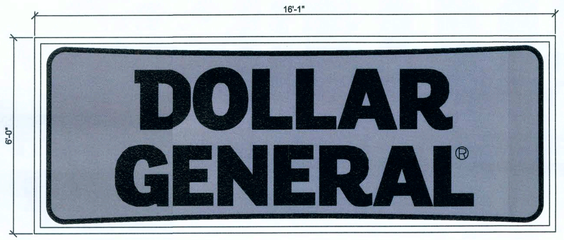
| Sign Size | Sign Weight | # Of Circuits | Amps | Voltage |
|---|---|---|---|---|
| 3' x 23' box | 380 lbs. | (1) 15 A | 2.5 | 115 |
| 3'-9" x 26' box | 441 lbs. | (1) 15 A | 5 | 115 |
| 4'-6" x 33'-3" box | 750 lbs. | (1) 15 A | 8.4 | 115 |
| 5' x 40' box | 1220 lbs. | (1) 15 A | 10 | 115 |

**Building Letters**

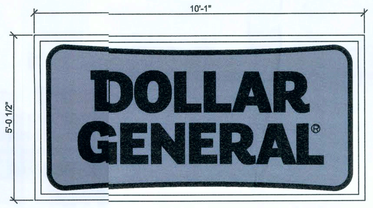
| Sign Size | Sign Weight | # Of Circuits | Amps | Voltage |
|---|---|---|---|---|
| 18" | 215 lbs. | (2) 15 A | 19.6 | 115 |
| 24" | 288 lbs. | (1) 15 A & (1) 20 A | 23.45 | 115 |
| 30" | 387 lbs. | (2) 20 A | 28 | 115 |
| 36" | 649 lbs. | (2) 15 A & (1) 20 A | 32.9 | 115 |

**Pylon Signs**

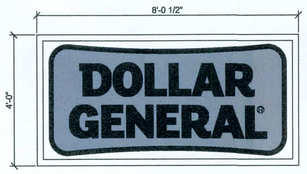
| Sign Size | Sign Weight | # Of Circuits | Amps | Voltage |
|---|---|---|---|---|
| 4' x 8' | 188 lbs. | (1) 15 A | 1.7 | 115 |
| 5' x 10' | 375 lbs. | (1) 15 A | 3.4 | 115 |
| 6' x 16' | 738 lbs. | (1) 15 A | 5 | 115 |




THIS IS THE PRIMARY PY..ON SIGN FOR ALL LOCATIONS.




THIS SIGN IS FOR SPECIALTY USE ONLY.

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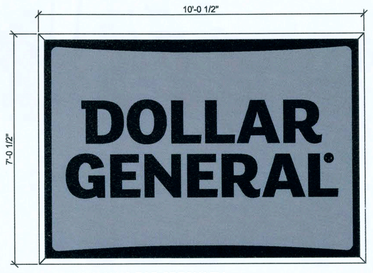


THIS SIGN IS FOR SPECIALTY USE ONLY.

1 / A7 SIGNAGE ELEVATIONS
SCALE: 1/2" = 1'-0"

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LAKE CITY, FL 32024
STORE # 19530
2018 PROTOTYPE - PLAN 9100E - 9,100 SQ. FT.

DRAWING DATE: / DRAWN BY:
4/5/19 - JEM
REVISION DATE: / REVISED BY:
PROJECT NUMBER:
4000.170
DRAWING TITLE:
SIGN DETAILS
SHEET NO.
A7

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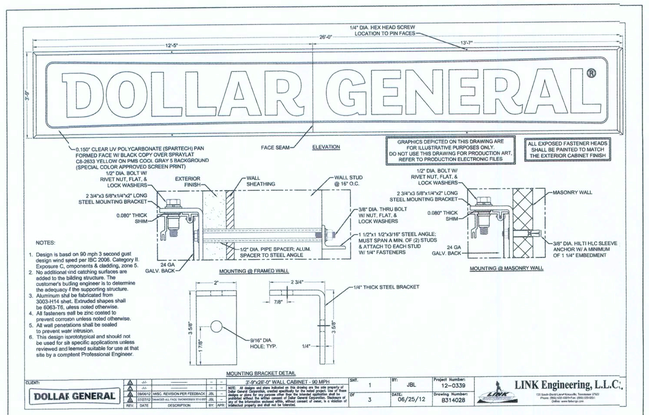


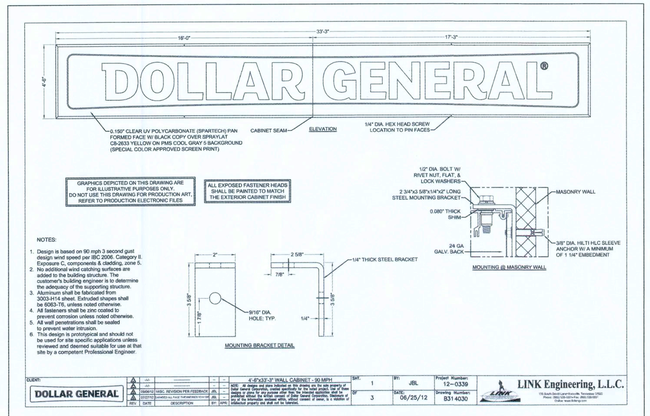


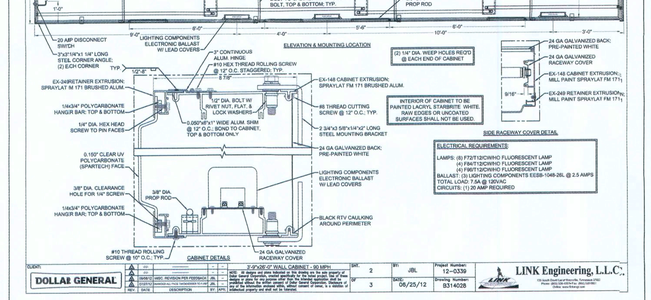


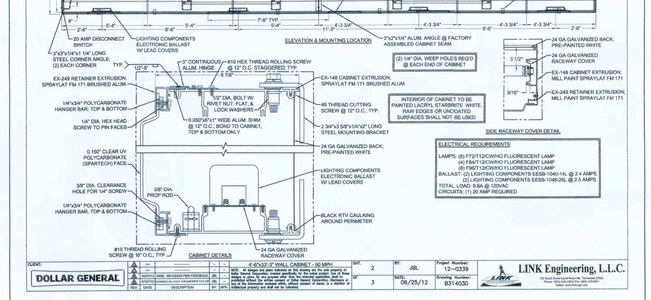


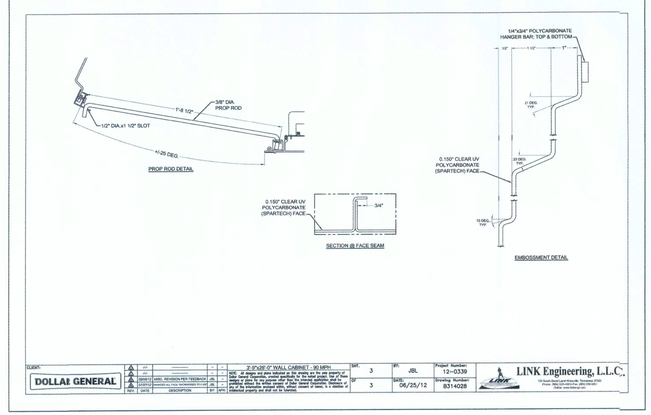


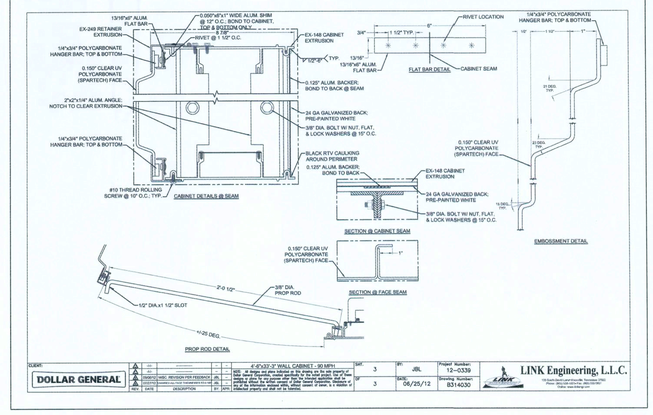


1 A8 SIGNAGE BRACING DETAILS
SCALE: N.T.S.


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STORE # 19930
2018 PROTOTYPE - PLAN 9100E - 9,100 SQ. FT.

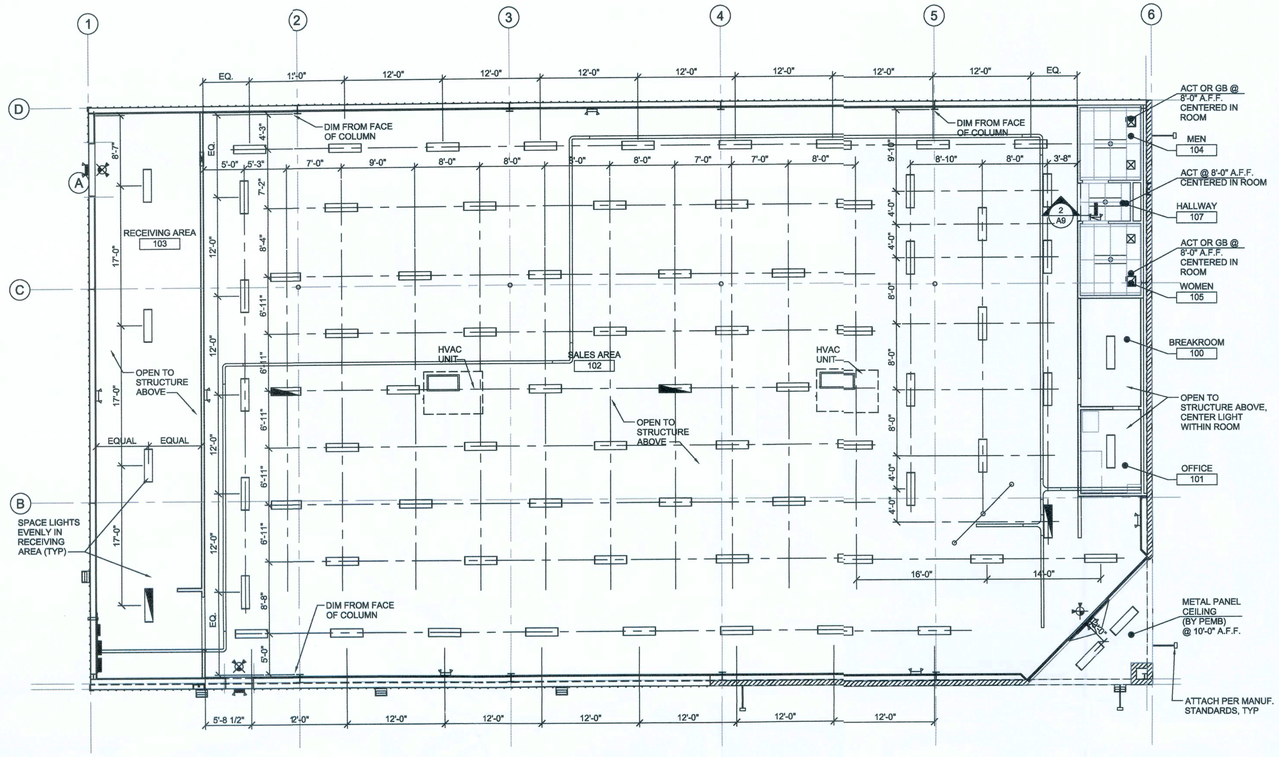
DRAWING DATE: / DRAWN BY:
4/5/19 - JEM

REVISION DATE: / REVISED BY:

PROJECT NUMBER:
4000.170

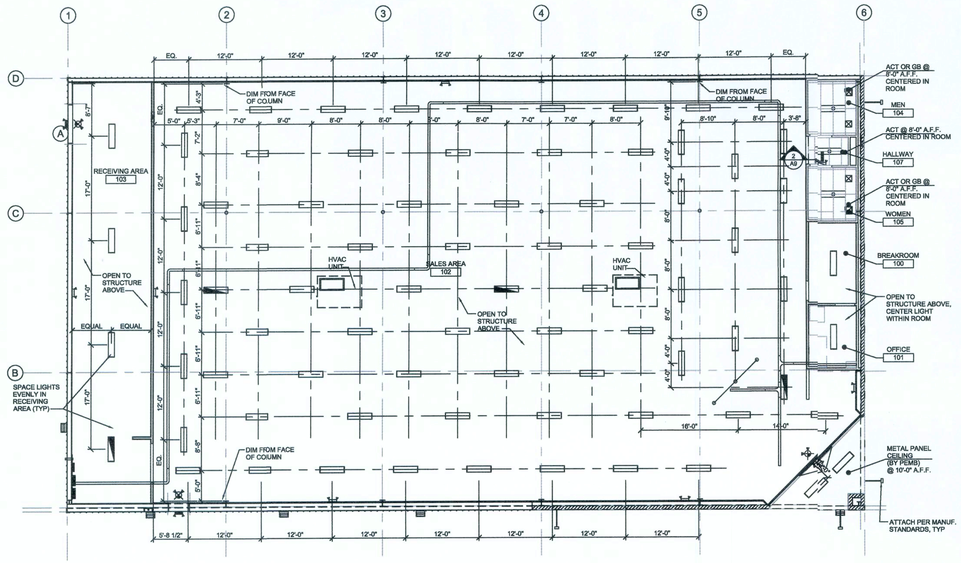
DRAWING TITLE:
SIGN BRACING

SHEET NO.
A8



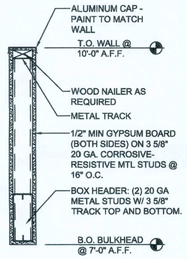

1 A9 REFLECTED CELING PLAN
SCALE: 1/8" = 1'0"

NORTH

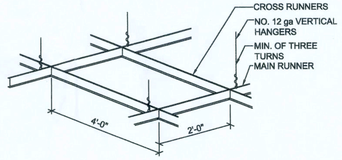



2 A9 CABLE TRAY PLAN
SCALE: N.T.S.

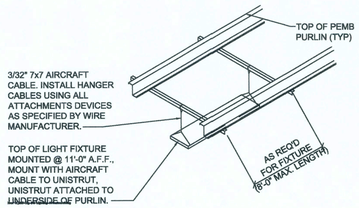
NORTH




3 A9 BULKHEAD DETAIL
SCALE: 1" = 1'-0"




4 A9 CEILING DETAIL
SCALE: N.T.S.




5 A9 LIGHT ATTACHMENT
SCALE: N.T.S.

JAMES BLYTHE
REGISTERED ARCHITECT
RA LEED AP BD+C
3324 W. UNIVERSITY AVE
PMB# 151
GAINESVILLE, FL. 32607
AR94452

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ESE CONCEPT COMPANIES
3324 W. University Ave., PMB#151 / GAINESVILLE, FL. 32607
LICENSE #: AA26002107
PH: 877- 309- 1029 / FAX: 800- 219- 7809
WWW.CONCEPTCOMPANIES.NET

DOLLAR GENERAL®

2144 SW BIRLEY AVE.
LAKE CITY, FL 32024

STORE # 19930
2018 PROTOTYPE - PLAN 9100E - 9,100 SQ. FT.

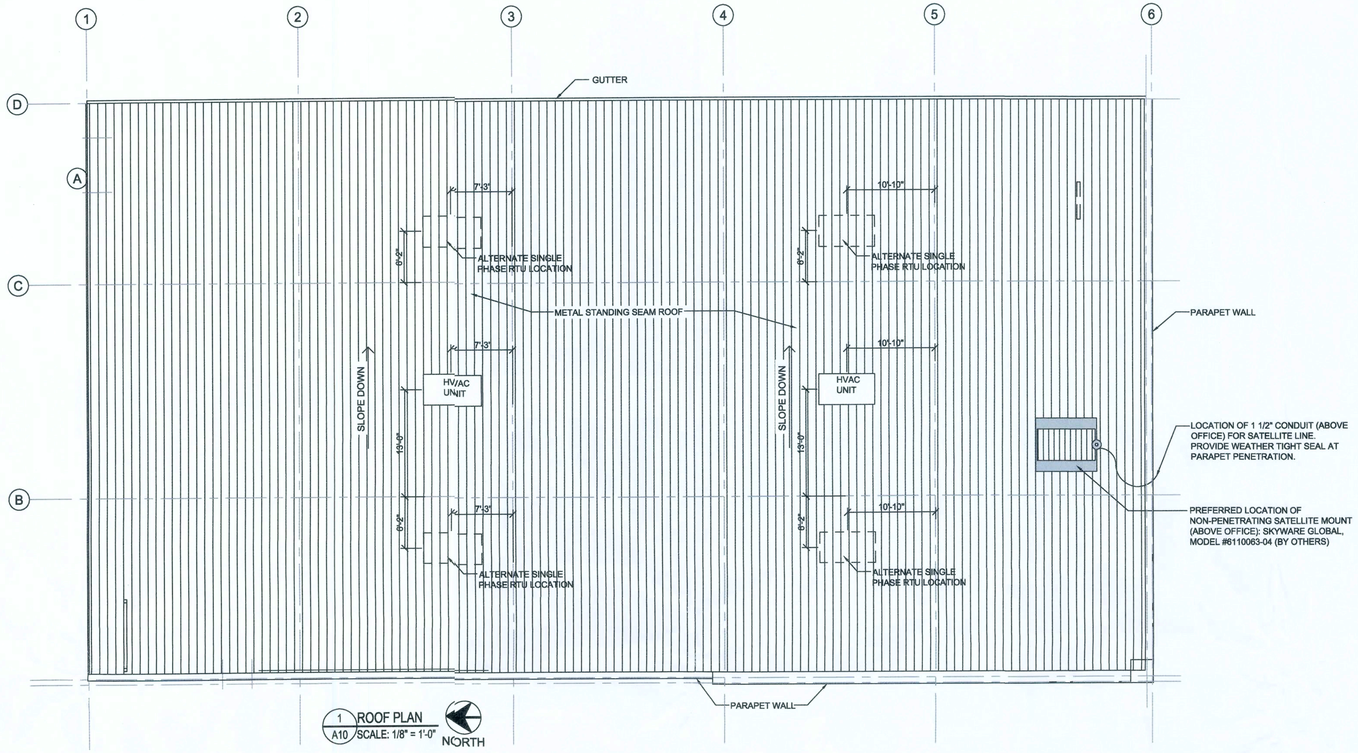
DRAWING DATE / DRAWN BY:
4/5/19 - JEM

REVISION DATE / REVISED BY:

PROJECT NUMBER:
4000.170

DRAWING TITLE:
REFLECTED CEILING PLAN

SHEET NO.
A9




1 A10 ROOF PLAN
SCALE: 1/8" = 1'-0"
NORTH

NOTE:
ROOF, HVAC UNITS/CURBS & SATELITE DISH TO BE RATED FOR 119 MPH EXPOSURE B HURRICANE FORCE WINDS. RISK FACTOR: CATEGORY 2 (TYPICAL).

## PRE-ENGINEERED METAL BUILDING NOTES

METAL BUILDING NOTES:

1. THE PRE-MANUFACTURED METAL BUILDING STRUCTURE, CONCRETE FOUNDATION, AND INTERIOR CONCRETE SLAB SHALL BE DESIGNED, DETAILED, FABRICATED, AND CONSTRUCTED IN ACCORDANCE WITH ALL APPLICABLE CODES, STANDARDS AND REGULATIONS. THE MOST STRINGENT REQUIREMENTS APPLY WHERE INCONSISTENCIES OCCUR BETWEEN THE APPLICABLE STANDARDS. IN THE ABSENCE OF OTHER CRITERIA, LOADINGS SHALL CONFORM TO THE 2006 EDITION OF THE INTERNATIONAL BUILDING CODE.
2. THE SCOPE OF THE PRE-MANUFACTURED METAL BUILDING STRUCTURE SHALL INCLUDE THE DESIGN, ENGINEERING, FABRICATION, DELIVERY, AND ERECTION OF THE COMPLETE STRUCTURAL STEEL FRAMING AND EXTERIOR SKIN PACKAGE. THE METAL BUILDING MANUFACTURER SHALL BE CERTIFIED BY AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) METAL BUILDING CERTIFICATION PROGRAM.
3. THE FRONT FASCIA SHALL HAVE (3) 12" PURLINS (MOUNTED VERTICALLY SO THAT THE 12" FACE IS AGAINST THE BUILDING METAL SIDING. THESE PURLINS SHALL BE CENTERED OVER THE ENTRANCE AND SPACED 96" APART TO PROVIDE ADEQUATE SUPPORT FOR SIGNAGE WHICH MAY WEIGH UP TO 1,400 LBS.

ROOF NOTES:

1. METAL ROOF MUST BE A STRUCTURAL STANDING SEAM METAL ROOF WITH MECHANICALLY ROLLED SEAMS. SEAMS TO BE A MINIMUM 1 1/2" HIGH. ALL FASTENERS TO BE CONCEALED.
2. ROOF PANELS TO BE A MINIMUM 24 GAUGE.
3. METAL ROOF SYSTEM TO BE EQUAL TO VP BUILDING SLR II ROOF.
4. CONDENSATE FROM HVAC UNITS TO BE PIPED TO GUTTERS.

JAMES BLYTHE
REGISTERED ARCHITECT
RA LEED AP BD+C
3324 W. UNIVERSITY AVE
PMB# 151
GAINESVILLE, FL 32607
AR94452

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CONCEPT COMPANIES
3324 W. University Ave., PMB#151, GAINESVILLE, FL 32607
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DOLLAR GENERAL
2144 SW BIRLEY AVE.
LAKE CITY, FL 32024
STORE # 19930
2018 PROTOTYPE - PLAN '9100E' - 9,100 SQ. FT.

DRAWING DATE: / DRAWN BY: 4/5/19 - JEM
REVISION DATE: / REVISED BY:
PROJECT NUMBER: 4000.170
DRAWING TITLE: ROOF PLAN
SHEET NO. A10

**1) GENERAL**
A. The building shall be designed such that there is maintained an absolute minimum of 83'-0" from face-of-column to face-of-column on the sales floor.

**2) FOUNDATIONS**
A. The concrete foundations shall be designed, detailed and constructed to provide for the safe, serviceable support of the pre-manufactured metal building structure and all prescribed loads applied thereto. The foundations shall conform to the latest editions of all applicable standards of the American Concrete Institute (ACI), the Building Code(s) enforced by the Authority Having Jurisdiction and these requirements.

B. The soils supporting the foundation shall be prepared and compacted in accordance with a geotechnical testing based investigation and site specific recommendations provided by a Professional Engineer registered to practice in the State where the project is located.

C. The slab on grade shall not be utilized to resist horizontal thrust forces at the base of the pre-engineered building frames. Tie beams below and separate from the building slab may be utilized.

D. The bearing materials shall be free of organic, expansive or corrosive material, and shall support the foundation in accordance with the following twenty five year criteria:

1. Maximum differential movement due to either settlement or heave shall not exceed 1/2" over a distance of 50 feet.

2. Maximum total movement due to either settlement or heave shall not exceed 1".

E. The foundations shall be of sufficient depth to bear below local frost depth where exposed, attain minimum design bearing pressure, achieve sufficient protection from settlement or heave, and where adjacent to existing construction, avoid application of lateral earth pressure to adjacent construction.

**3) SLAB ON GRADE**
A. The subgrade for the slab on grade shall be compacted and prepared in accordance with a geotechnical testing based investigation and site specific recommendations provided by a Professional Engineer registered to practice in the State where the project is located. The subgrade shall provide a minimum of 100 pounds per cubic inch (psi) modulus of sub-grade reaction and shall be proof-rolled to ensure that there are no pumping or soft zones greater than ½" (ACI 302, "Guide for Concrete Floor Slab Construction").

B. The slab on grade shall conform to the latest editions of all applicable standards of the American Concrete Institute (ACI), the Building Code(s) enforced by the Authority Having Jurisdiction and these requirements. The slab on grade shall be a minimum of 4" thick and reinforced with a minimum 6" x 6" x W1.4 x W1.4 welded wire fabric located in the center of the slab.

C. Except at doors at the perimeter of the facility, the slab on grade shall be isolated from the building columns and any perimeter grade beams or walls. The slab on grade shall receive a hard steel trowel finish. Saw-cut contraction joints a minimum of ¼ the depth of the slab shall be provided in both principal directions across the entire floor slab, and shall be no further than 13 feet on center and providing panels with an aspect ratio no greater than 1.5:1. Refer to Control Joint Spacing Plan on Sheet S3. The slab shall be protected from the effects of heat or wind as necessary to avoid any curling of the slab segments.

**4) CONCRETE SALES FLOOR PRE-INSTALLATION CONFERENCE:**
A. At least 30 days prior to the start of the concrete slab construction, the general contractor shall conduct a meeting to review the proposed concrete mix designs and to discuss the required methods and procedures to achieve the requirement of this specification. The general contractor shall send a pre-concrete conference agenda to all attendees 20 days prior to the scheduled date of the conference.

B. The general contractor shall require responsible representatives of every party concerned with the concrete work to attend the conference, including, but not limited to, the following:
General contractor's superintendent

1. Laboratory responsible for concrete mixes, field quality control and floor tolerance testing
2. Ready-mix concrete producer
3. Concrete contractor
4. Chemical admixture manufacturer
5. Liquid densifier and sealer manufacturer
6. Liquid densifier and sealer applicator
7. Joint filling manufacturer
8. Joint filling applicator

C. Minutes of the meeting shall be recorded, typed and printed by the general contractor and distributed to all concerned parties, including the owner's representative, the architect and the structural engineer, within five days of the meeting.

D. The minutes shall include a statement by the concrete supplier stating that the proposed concrete mix design will produce the concrete quality required by these specifications.

E. The minutes shall include a statement by the concrete contractor that the proposed concrete mix design will provide appropriate workability and setting times, to ensure that the concrete contractor can achieve the requirements of this specification.

**5) CONCRETE CONTRACTOR QUALIFICATION:**
A. The concrete contractor shall include in their bid package to the general contractor, sufficient data, including a minimum of three similar and successful projects that clearly indicates the concrete contractor's ability to successfully perform the work and to achieve the interior sales floor slab tolerances required in this specification. The concrete contractor's team shall have participated in the majority of these projects, and that team shall remain the same through the duration of this project.

**6) CONCRETE MATERIALS:**
A. Portland Cement: ASTM C 150, Type 1. Use one brand of cement throughout the project.

B. Coarse and fine aggregates: ASTM C 33. Combined aggregate gradation for slabs on grade and other designated concrete shall be 8% - 18% for large top size aggregates (1½") or 8% - 22% for smaller top size aggregates (1" or ¾") retained on each sieve below the top size and above the no. 100 sieve. Slabs on grade shall have a maximum aggregate size of 1½" floating and pipes 1" and below ¾".

C. Prohibited admixtures:
1. Calcium chloride or admixtures containing more than 0.05% chloride ions are not permitted.
2. Flyash is not permitted.

**7) EVAPORATION RETARDER:**
A. Waterborne, monomolecular film forming, manufactured for application to fresh concrete.
1. Acceptable products:
a. "Eucobar" by Euclid Chemical - Phil Brandt 877-438-3826

**8) CURING MATERIALS:**
**A. Exterior curing: All exterior concrete slabs shall be cured using a liquid membrane-forming curing compound. The liquid membrane-forming curing compound shall meet the requirements of ASTM C1315 with a maximum V.O.C. Content of 700 g/l.**
1. Acceptable products:
a. "Super Ken Seal" or "Super Aqua Cure" by Euclid Chemical - Phil Brandt 877-438- 3826

**B. Interior curing (building not enclosed/sales floor slab is placed first): The interior sales floor slab shall** be cured using a reduced odor, dissipating liquid membrane forming curing compound that is formulated from hydrocarbon resins. The dissipating liquid membrane forming curing compound shall meet the requirements of ASTM C309 and V.O.C. contents in accordance to EPA 40 CFR, part 59, table 1, subpart D for concrete curing compounds with a maximum V.O.C. content of 350g/l.
1. Acceptable product:
a. "Kurez DR VOX" by Euclid Chemical - Phil Brandt 877-438-3826

**C. Interior curing (building enclosed/sales floor slab is placed last): The interior sales floor slab shall be** cured using a removable, low odor, fast drying liquid membrane forming curing compound. The removable liquid membrane forming curing compound shall meet the requirements of ASTM C309, AASHTO M 148, USDA compliancy and V.O.C. contents in accordance to EPA 40 CFR, part 59, Table 1, subpart D for concrete curing compounds with a maximum V.O.C. Content of 350g/l.
1. Acceptable product:
a. "Kurez RC" by Euclid Chemical - Phil Brandt 877-438-3826

**9) LIQUID DENSIFIER / SEALER FOR INTERIOR SALES FLOOR:**
A. Liquid densifier / sealer shall be a sodium silicate / siliconate blend. Manufacturer of liquid densifier and sealer must be contacted prior to bidding for pricing and application requirements.
1. Acceptable liquid densifier and sealer manufacturer:
a. "Euco Diamond Hard" by Euclid Chemical - Phil Brandt 877-438-3826
b. "RetroPlate 99" by RetroPlate Systems - Curtis Turnbull 888-942-3144

B. Approval: All general contractors bidding or negotiating a Dollar General project shall contact Euclid Chemical or RetroPlate to obtain a list of approved applicators located within the geographic region of the project. General contractors shall solicit and accept pricing only from those applicators as provided by Euclid Chemical or RetroPlate. **The approved applicator selected for the initial application of liquid densifier / sealer shall be the same as for the joint filling and additional application of liquid densifier / sealer and polishing process.** Within ten days after completion of work, the approved applicator shall furnish Euclid Chemical or RetroPlate a copy of the invoice, as well as square footage and coverage rate data confirming that the specified application rates were achieved.

C. Project service: at least 10 days prior to application of liquid densifier and sealer, the general contractor shall notify the Euclid Chemical or RetroPlate representative for jobsite service. The representative will be on the project site during the first application of liquid densifier / sealer and will follow the project through to completion.

**10) SEMI-RIGID POLYUREA JOINT FILLER:**
A. UV Resistant, semi-rigid polyurea joint filler shall be a two (2) component, 100% solids compound, with minimum Shore "A" hardness of 80. Joint filler color shall match the adjacent concrete surface.
1. Acceptable semi-rigid polyurea joint filler manufacturer:
a. "Euco QWIKseal UVR" by Euclid Chemical - Phil Brandt 877-438-3826

B. Non-UV Resistant, semi-rigid polyurea joint filler shall be a two (2) component, 100% solids compound, with a minimum Shore "A" hardness of 75. Joint filler color shall match the adjacent concrete surface.
1. Acceptable semi-rigid polyurea joint filler:
a. "CreusFill Pro 75" by CureCrete - Curtis Turnbull 888-942-3144

C. Approval: All general contractors bidding or negotiating a Dollar General project shall contact the Euclid Chemical company or Retroplate to obtain a list of approved applicators located within the geographic region of the project. General contractors shall solicit and accept pricing only from those applicators as provided by Euclid Chemical or RetroPlate. **The approved applicator selected for the initial application of liquid densifier / sealer shall be the same as for the joint filling and additional application of liquid densifier / sealer and polishing process.**

**11) CONCRETE MIXES:**
A. Comply with ACI 301 requirements for concrete mixtures.

B. Concrete mix design(s) shall be proportioned according to ACI 301, for normal-weight concrete determined by either laboratory trial mix or field test data as follows:
1. Compressive strength (28 days): 4000psi (27.6mpa), with a maximum water/cement ratio of .53, unless otherwise indicated on the drawings. Concrete materials included in the mix design shall be the same materials provided to the project, and shall be prepared by an independent testing laboratory approved by the owner. If sufficient backup data is not available, the laboratory mix design shall exceed the desired job strength of concrete by 1,200psi. Four copies of the mix design shall be submitted to the owner before concrete work begins.

2. Slump: Concrete containing mid or high range water reducer shall have a maximum slump of 5½" for the interior sales floor slab and 8" (200 mm) for other areas. All other concrete shall not exceed 4 inches (100 mm) unless otherwise indicated on the drawings.

3. Adjustment to concrete mixes: Mix design adjustments may be requested by General Contractor when characteristics of materials, job conditions, weather, test results or other circumstances warrant, at no additional cost to owner and as accepted by owner. Laboratory test data for revised mix design and strength results must be submitted to and accepted by owner before using in work. Both the concrete testing and inspection agency and the concrete contractor shall satisfy themselves that the concrete mix design will produce a concrete which will meet the specifications for this project. In addition, the General Contractor and Concrete Contractor shall verify that the workability, finishability and setting times are appropriate for slab installations. Placement shall be made directly from concrete trucks by chute. If pumping of the concrete is contemplated for any special locations, the proportions established above shall not be altered to suit the capabilities of the pumping equipment. For concrete containing macro-synthetic fibers, adjustments required to provide required placement conditions may warrant use of additional water reducer. No additional water is permitted into concrete mixture after addition of macro-synthetic fibers.

NOTE:
FOR INFORMATIONAL PURPOSES ONLY.
ENGINEER OF RECORD'S SPECIFICATIONS SHALL BE FOLLOWED FOR ALL CONCRETE THAT IS STRUCTURAL FOR THIS PROJECT.

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CEMEX

Concept Construction

Submittal No. : 28464 Date Issued: 4/19/2012

| Mix Code Number | Description | Use |
|---|---|---|
| 1410646 | 4000 psi in 28 days - Regular (564 lb. binder min.) | |

*Please Note: You must use Mix Code for ordering purposes.*

The above mix has been proportioned in accordance with the applicable portions of ACI 211 and your verbal request.

The proposed mix designs will meet the stated strengths when test specimens are manufactured and tested in accordance with current ASTM standards and evaluated per ACI recommended standards and practices.

**CEMEX requests copies of all approved mix designs prior to jobsite delivery. In order to comply with ACI 318-11 Paragraph 5.3, we request that CEMEX be included on the distribution list for all Concrete Test Reports.**

It is suggested that a pre-pour conference be held at the jobsite prior to jobsite delivery. The purpose of the meeting would be to answer any questions regarding responsibilities in scheduling and jobsite operation.

Please forward this information and data to the proper authorities for approval.

Scott Emerson
Mix Design Specialist

Enclosures: Backup Data

M.S.D.S. for Ready Mixed Concrete:
Available at: http://www.rinker.com/Toolbox/MSDS/msds%20-%20Concrete.pdf

Florida Region
1557 Jupiter Park Drive, Suite 1, Jupiter, FL 33458, USA, (561) 745-5240 Fax (561) 746-1727

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CEMEX

## NATURAL SAND AGGREGATE PROPERTIES

| MINE: | TYPICAL GRADING (% FINER) | | | | |
|---|---|---|---|---|---|
| | UNION | 474 | JOSUA | MARION | GATOR |
| FDOT MINE NO. | GA-397 | 11-283 | 16-277 | 36-256 | 19-564 |
| MATERIAL TYPE | NATURAL | NATURAL | NATURAL | NATURAL | NATURAL |
| SIEVE SIZE | | | | | |
| 2.0 in. | | | | | |
| 1 1/2 in. | | | | | |
| 1.0 in. | | | | | |
| 3/4 in. | | | | | |
| 1/2 in. | | | | | |
| 3/8 in. | 100.0 | 100.0 | | | 100.0 |
| #4 | 99.9 | 100.0 | 100.0 | 100.0 | 100.0 |
| #8 | 97.5 | 99.7 | 97.0 | 98.0 | 99.9 |
| #16 | 88.8 | 92.8 | 92.0 | 92.0 | 94.6 |
| #30 | 61.6 | 58.9 | 65.0 | 62.0 | 62.3 |
| #50 | 18.1 | 22.9 | 20.0 | 22.0 | 27.3 |
| #100 | 1.7 | 2.7 | 4.0 | 4.0 | 4.6 |
| #200 | 0.2 | 0.1 | 0.0 | 0.0 | 0.1 |

| MINE: | TYPICAL GRADING (% FINER) | | | |
|---|---|---|---|---|
| | WEIRSDALE | GRANDIN | LAKE WALES | PALMDALE |
| FDOT MINE NO. | 36-491 | 76-349 | 16-078 | 05-455 |
| MATERIAL TYPE | NATURAL | NATURAL | NATURAL | NATURAL |
| SIEVE SIZE | | | | |
| 2.0 in. | | | | |
| 1 1/2 in. | | | | |
| 1.0 in. | | | | |
| 3/4 in. | | | | |
| 1/2 in. | | | | |
| 3/8 in. | | | 100.0 | 100.0 |
| #4 | 100.0 | 100.0 | 100.0 | 100.0 |
| #8 | 99.0 | 98.0 | 99.3 | 99.5 |
| #16 | 87.0 | 88.0 | 94.2 | 91.6 |
| #30 | 59.0 | 61.0 | 65.6 | 60.4 |
| #50 | 28.0 | 26.0 | 28.1 | 24.3 |
| #100 | 2.0 | 4.0 | 3.8 | 2.4 |
| #200 | 0.0 | 0.0 | 0.1 | 0.1 |

---

CEMEX

Date Issued: 4/19/2012

| | | |
|---|---|---|
| MIX CODE | : | 1410646 *Mix Code must be used when ordering concrete.* |
| DESCRIPTION | : | 4000 psi in 28 days - Regular (564 lb. binder min.) |
| CLIENT | : | Concept Construction |
| USE | : | |

RMP,450,REG,35,03%,T2,,564,,600

| Material | Source | Description | Spec. Gravity | Weight (lb) |
|---|---|---|---|---|
| Type I-II | CEMEX | ASTM C-150, Type I/II Cement | 3.15 | 564 |
| Fine Aggregate | CEMEX | ASTM C-33, Natural Sand | 2.63 | 1,266 |
| Coarse Aggregate | CEMEX | ASTM C-33, #57 Limestone | 2.45 | 1,753 |
| Water Reducer & Retarder | W.R. Grace | ASTM C-494, Type D, WRDA 60 | | |
| Potable | | ASTM C-94, Potable 33.0 Gal. | 1.00 | 275 |
| | | | TOTAL | 3858 |

Specified Slump 3.00 To 5.00 in.
Specified Air: 2.00 %
Designed Unit Weight 143.0 lbs./cu.ft.
Designed W/C Ratio: 0.49

NOTES:
CEMEX has no knowledge or authority regarding where this mix is to be placed. Therefore, it is the responsibility of the project architect/engineer, and or contractor to insure that the above designed mix parameters of compressive strength, water cement ratio, cement content, and air content are appropriate for the anticipated environmental conditions (ie, ACI-318-11 Chapter 4, and the local Building Codes).

Chemical admixtures are added in accordance with the manufacturers recommendations.

Designed mix cementitious content is stated as a minimum, and CEMEX reserves the right to increase cementitious content. CEMEX also reserves the right to adjust aggregate weights to maintain design aggregate volumes.

COMMENTS:
* The air content of this mix is entrapped only.

Scott Emerson
Mix Design Specialist

Florida Region
1557 Jupiter Park Drive, Suite 1, Jupiter, FL 33458, USA, (561) 745-5240 Fax (561) 746-1727

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FLORIDA ROCK INDUSTRIES, INC
CEMENT GROUP

T. S. BAKER PLANT
4000 SW CR 235
Newberry, Florida 32669
Phone: (352) 472-4722
Fax: (352) 472-2449

## MILL TEST REPORT

**Cement Type: Type I & Type II**
**Source: T. S. Baker Plant**
**Silos: 1, 2, 4, & 7**
**Issued - April 09, 2012**

| CHEMICAL COMPOUNDS§ | COMPOSITION | LIMIT | ASTM C-150 | FLORIDA DOT 921 & AASHTO M-85 |
|---|---|---|---|---|
| Silicon Dioxide ($SiO_2$) | 19.6 | | | |
| Aluminum Oxide ($Al_2O_3$) | 5.3 | Max. | 6% | 6% |
| Iron Oxide ($Fe_2O_3$) | 3.7 | Max. | 6% | 6% |
| Calcium Oxide (CaO) | 64.0 | | | |
| Magnesium Oxide (MgO) | 0.9 | Max. | 6% | 6% |
| Sulfur Trioxide ($SO_3$) | 3.1 | Max. | 3%** | 3%** |
| Loss On Ignition | 2.2 | Max. | 3% | 3% |
| Insoluble Residue | 0.21 | Max. | 0.75% | 0.75% |
| Sodium Oxide ($Na_2O$) | 0.14 | | | |
| Potassium Oxide ($K_2O$) | 0.40 | | | |
| Alkalies as $Na_2O$ Equivalent *** | 0.40 | Max. | 0.60% | 0.60% |
| Tricalcium Silicate ($C_3S$) * | 62.2 | | | |
| Dicalcium Silicate ($C_2S$) * | 7.3 | | | |
| Tricalcium Aluminate ($C_3A$) * | 7.8 | Max. | 8% | 8% |
| Tetracalcium Aluminoferrite ($C_4AF$) * | 11.2 | | | |
| $CaCO_3$ in limestone, % | 96% | Min.% | 70% | 70% |
| Limestone, % | 2.7% | Max.% | 5% | 5% |
| Limestone Source | T.S.B. Plant | | | |

| PHYSICAL TEST RESULTS | | | | |
|---|---|---|---|---|
| Blaine Surface, $m^2/kg$ (ASTM C 204) | 401 | Min. | 280 | 280 |
| Vicat Set, minutes (ASTM C 191) | | | | |
| Initial | 104 | Min. | 45 | 45 |
| Final | 200 | Max. | 375 | 375 |
| Air Content (ASTM C 185) | 8.8 | Max. | 12% | 12% |
| Autoclave Expansion (ASTM C 151) | 0.01 | Max. | 0.80% | 0.80% |
| Compressive Strength, p.s.i. (ASTM C 109) | | | | |
| 1 day | 2520 | | | |
| 3 days | 4070 | Min. | 1740 | 1740 |
| 7 days | 5330 | Min. | 2760 | 2760 |
| 28 days (most recent) | 7010 | | | |
| Heat of Hydration, cal/g @7 days | 78 | Max. | N/A | 80 |
| $C_3S + 4.75\ ^*(C_3A)$ | 99 | Max. | 100 | 100 |

§ Chemical analysis performed as per ASTM C 114 Rapid Test Methods.
* Compounds are calculated as per ASTM C 150.
** By ASTM C-563, $SO_3$ target at 3.0%. Cement meets ASTM C-1038 for $SO_3$ at 3.3% or lower.
*** Sodium Oxide Equavient calculated by: $\%Na_2O + 0.658 \times \%K_2O$

The cement covered by this report complies with the current specifications for:
ASTM C 150: Type I and Type II
FLDOT 921 and AASHTO M 85: Type I and Type II
ALDOT 815 and AASHTO M 85: Type I and Type II
GADOT 830 and AASHTO M 85: Type I and Type II
SCDOT 701.2.1 and AASHTO M-85 Type I and Type II
NCDOT 1024-1 and AASHTO M-85 Type I and Type II

Donald Levonian
Quality Manager

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CEMEX

## #57 AGGREGATE PROPERTIES

| QUARRY | TYPICAL GRADING (% FINER) - #57 ROCK | | | |
|---|---|---|---|---|
| | FEC | KROME | BROOKSVILLE | ALICO ROAD |
| FDOT MINE NO. | 87-090 | 87-089 | 08-012 | 12-008 |
| MATERIAL TYPE | LIMESTONE | LIMESTONE | LIMESTONE | LIMESTONE |
| SIEVE SIZE | | | | |
| 2.0 in. | | | | |
| 1 1/2 in. | 100.0 | 100.0 | 100.0 | 100.0 |
| 1.0 in. | 100.0 | 99.8 | 99.2 | 99.5 |
| 3/4 in. | 77.2 | 83.0 | 81.5 | 84.5 |
| 1/2 in. | 36.7 | 39.9 | 38.9 | 38.0 |
| 3/8 in. | 22.2 | 16.4 | 20.8 | 12.4 |
| #4 | 5.3 | 4.8 | 3.5 | 2.6 |
| #8 | 2.4 | 2.8 | 3.0 | 2.2 |
| #16 | | | | |
| #30 | | | | |
| #50 | | | | |
| #100 | | | | |
| #200 | | | | |
| SSD SP. GR. | 2.48 | 2.43 | 2.42 | 2.45 |
| % ABSORPTION | 5 | 6.36 | 6.07 | 2.74 |
| L.A ABRASION | | 35.71 | 39 | 38 |

## PEAROCK AGGREGATE PROPERTIES

| QUARRY | TYPICAL GRADING (% FINER) - PEAROCK | | | |
|---|---|---|---|---|
| | FEC | KROME | BROOKSVILLE | ALICO ROAD |
| FDOT MINE NO. | 87-090 | 87-089 | 08-012 | 12-008 |
| MATERIAL TYPE | LIMESTONE | LIMESTONE | LIMESTONE | LIMESTONE |
| SIEVE SIZE | | | | |
| 2.0 in. | | | | |
| 1 1/2 in. | | | | |
| 1.0 in. | | | | |
| 3/4 in. | | | | |
| 1/2 in. | 100.0 | 100.0 | 100.0 | 100.0 |
| 3/8 in. | 98.6 | 95.3 | 99.3 | 96.3 |
| #4 | 50.4 | 46.2 | 27.8 | 30.7 |
| #8 | 8.0 | 9.7 | 3.1 | 3.1 |
| #16 | 1.9 | 1.8 | 2.4 | 1.0 |
| #30 | 1.1 | 1.2 | 2.2 | 0.7 |
| #50 | 0.9 | 1.0 | | 0.6 |
| #100 | | | | |
| #200 | 1.0 | | 1.4 | 0.3 |
| SSD SP. GR. | 2.46 | 2.41 | 2.39 | 2.42 |
| % ABSORPTION | 3.91 | 3.61 | 5.54 | 2.2 |
| L.A ABRASION | | | | 35 |

CEMEX

*W/C Ratio/Strength Relationship - #57/#67 Regular, Type I/II Cement*

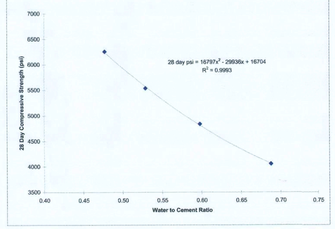
*Concrete Constituents*

| | |
|---|---|
| Cement | ASTM C-150, Type I/II |
| Coarse Aggregate | ASTM C-33 Crushed Limestone |
| Fine Aggregate | ASTM C-33 Natural Sand |
| Admix | ASTM C-494, B/D, W.R. Grace WRDA |
| AEA | ASTM C-260, W.R. Grace, Darex |

*Mix Data*

| Trial Code | 01-441 | 01-442 | 01-443 | 01-444 |
|---|---|---|---|---|
| Lab. No. | 98210 | 98211 | 98212 | 98213 |
| Cement lbs/cy | 460 | 460 | 520 | 560 |
| #57/67 (ssd) lbs/cy | 1684 | 1712 | 1737 | 1751 |
| Sand (ssd) lbs/cy | 1433 | 1353 | 1276 | 1200 |
| WRDA oz/cwt | 5 | 5 | 5 | 5 |
| Darex oz/cwt | 0.2 | 0.2 | 0.4 | 0.4 |
| Water lbs/cy | 275 | 275 | 275 | 267 |
| W/C Ratio | 0.69 | 0.60 | 0.53 | 0.48 |
| 28 Day Avg (psi) | 4053 | 4833 | 5537 | 6260 |

**Water-Cement Ratio Curve**

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DOLLAR GENERAL®

2144 SW BIRLEY AVE.
LAKE CITY, FL 32024
STORE # 19930
2018 PROTOTYPE - PLAN '9100E' - 9,100 SQ. FT.

DRAWING DATE: / DRAWN BY:
4/5/19 - JEM

REVISION DATE: / REVISED BY:

PROJECT NUMBER:
4000.170

DRAWING TITLE:
CONCRETE SPECS

SHEET NO.
A11

**12) FLOOR SLAB FINISH AND TOLERANCES:**

A. General: Unless otherwise noted by owner, concrete sales floor slab shall be cast in one continuous placement. Concrete shall be placed, screeded, re-straightened, and finished as necessary to meet the FF and FL tolerance requirements. Do not wet concrete surfaces during finishing operations.

B. Trowel finish (sales floor): Apply a hard trowel finish to surfaces as follows:

1. Laser screeds, vibratory screeds, highway straightedges and wood bull floats shall be used to initiate screeding and floating process to form a uniform and open-textured surface plane before excess moisture or bleed water appears on the surface. A back-up laser screed is required during concrete placement of the interior sales floor slab. Remove excess water before starting floating operations. Do not further disturb surfaces before starting finishing operations

2. Highway straightedge operations shall continue before, during and after troweling operation, until specified floor tolerances are achieved.

3. Trowel finish with gas operated troweling machine with adjustable blades on all finishing equipment. Use steel-reinforced blades on ride-on power trowels. Trowel the surface sufficiently to produce a smooth, tight, abrasion resistant surface. Care shall be taken not to overwork or burn the surface. Use 6" wide finish style steel-reinforced blades on final passes. Finishing blades shall be in new condition and completely clean of any deleterious materials. **Interior machine trowel finish shall be achieved within a 3" tolerance of all walls, columns and partitions.**

4. Protection: Care shall be taken to protect the interior sales floor. Entrances shall include clean floor mats to prevent mud stains and all equipment on the floor shall be diapered to prevent spills. Cutting oils, etc, are not allowed on the sales floor slab at any time during the construction process.

C. Comply with ACI 117, "Specifications For Tolerances For Concrete Construction and Materials." Interior sales floor slab shall meet the requirements of a type 5, single course, hard steel-troweled finish as described in ACI 302.

1. All perimeter areas and edges of the concrete floor shall exhibit the same finish as the sales floor, including but not limited to, hallways, offices, restrooms, etc.

2. The general contractor is responsible for contracting with the testing laboratory for all costs associated with floor tolerance testing. A copy of the final floor tolerance report shall be provided by the general contractor to the owner within 24 hours of receiving the report from the testing laboratory. The sales floor slab shall conform to the following flatness and levelness criteria:

| | |
|---|---|
| Flatness | Overall Floor Flatness rating of at least 35 |
| Levelness | Overall Floor Levelness rating of at least 30 |
| Tolerance Band for Entire Floor | +/- 0.375 inch |

D. Failure to achieve the above criteria shall be cause for replacement of the offending segments or grinding/polishing at no cost to the Owner or Tenant.

E. Trowel finish (other than sales floor): Apply a hard trowel finish to surfaces indicated and to floor and slab surfaces exposed to view or to be covered with resilient flooring, carpet, ceramic or quarry tile set over a cleavage membrane, paint, or another thin film-finish coating system.

F. Heavy broom finish: As noted on drawings.

**13) CONCRETE PROTECTION AND CURING:**

A. General: Normalize concrete set time and protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 305 for hot-weather protection and ACI 306 for cold-weather protection during curing. **During concrete placement operations, ventilate and exhaust all fumes from construction equipment and heaters to avoid potential early concrete carbonation.** Apply the specified curing compound as quickly as possible for maximum protection. For concrete placement during hot, dry and windy conditions, concrete contractor shall use evaporation retarder as per manufacturer's instructions to maintain a moist condition and to minimize plastic drying shrinkage cracking at the surface of the freshly placed concrete.

1. Curing - Exterior Slabs:
All **exterior concrete** slabs shall be cured using the specified liquid membrane-forming curing compound. Per manufacturer's instructions, application shall be applied evenly and uniformly as soon as possible after final finishing. Surface shall be clean and damp, but not wet and can no longer be marred by walking workmen. All applications shall be made by an approved applicator of the manufacturer, and when surface and air temperature is above 50° f. Apply "Super Res Seal" or "Super Aqua Cure" at an application rate of 400sf/gallon. Begin curing immediately after finishing concrete, but not before free water has disappeared from concrete surface.

2. Curing - Interior slabs:
The **interior sales floor slab** shall be cured using the specified dissipating or removable liquid membrane-forming curing compound. Per manufacturer's instructions, application shall be applied evenly and uniformly as soon as possible after final finishing. Surface shall be damp, but not wet and can no longer be marred by walking workmen. All applications shall be made by an approved applicator of the manufacturer, and when surface and air temperature is above 50° f. Apply "Kurez DR VOX" (slab first) or "Kurez RC" (slab last) at an application rate of 350sf/gallon. Begin curing immediately after finishing concrete, but not before free water has disappeared from concrete surface.

**14) CONTRACTION JOINTS IN SLABS-ON-GRADE:**

A. Form weakened-plane contraction joints, sectioning concrete into areas as indicated on drawings. Contraction joints shall be sawn to a depth equal to at least one-fourth of the concrete thickness, as follows:

B. Sawed joints: All saw cutting shall be accomplished with a "Soff-Cut" saw and vacuum system equipped with a new blade and plate, as soon as the slab will support the weight of the saw and operator. Note: **Concrete dust shall be removed completely and immediately. If chalk lines are used for sawcuts, all chalk remaining on the slab shall be removed completely and immediately after sawing.**

**15) INTERIOR SALES FLOOR SLAB PROTECTION:**

A. Take the following measures to protect the interior sales floor slab:
1. Wrap or "diaper" all motorized and hydraulic equipment to prevent fluid leaks
2. Provide non-marking tires on rubber tired vehicles or equip rubber tires with tire boots made of nylon fabric
3. Provide mats at all entrances to prevent mud stains

**16) TIMING OF JOINT FILLER, LIQUID DENSIFER AND POLISHING PROCESS:**

A. Do not commence installation of semi-rigid polyurea joint filler, liquid densifier and sealer or polishing processes until the building is completely enclosed, permanent power and lighting is operating and the building is thermostatically controlled. Installation of those materials shall commence approximately two weeks prior to "fixture date."

**17) INSTALLATION OF SEMI-RIGID POLYUREA JOINT FILLER:**

A. All General Contractors bidding or negotiating a Dollar General project shall contact Euclid Chemical or RetroPlate to obtain a list of approved applicators located within the geographic region of the project. General contractors shall solicit and accept pricing only from those applicators as provided by Euclid Chemical or RetroPlate. **The approved applicator selected for the initial application of liquid densifier / sealer shall be the same as for the joint filling and additional application of liquid densifier / sealer.**

B. Joint filler installation: Comply with recommendations in ACI 302 for use of joint filler as applicable to materials, applications, and conditions indicated.

C. Surface cleaning of joints: Clean out joints immediately before installing joint filler. Remove foreign material from joint substrates that could interfere with adhesion of joint filler by brushing, grinding, blast cleaning, mechanical abrading, or a combination of these methods to produce a clean, sound substrate capable of developing optimum bond with joint filler. Remove loose particles remaining from above cleaning operations by vacuuming or blowing out joints with oil-free compressed air. Also remove all laitance and form-release agents from concrete surface. Clean nonporous surfaces with chemical cleaners or other means that do not stain, harm substrates, or leave residues could interfere with adhesion of joint sealants. All surfaces to be filled shall be clean and dry.

D. For proper load transfer, joints must be filled full depth, but in no case should the joint filler be any less than 1" deep in the joint.

E. Mixing: Joint filler is a two part product requiring machine mixing and placing. Premix part b separately before using. Follow pump manufacturer's equipment instructios.

F. Placement: Joint filler shall be filled full depth. **No backer rod is allowed.** Joints should be overfilled and shaved even with the surrounding joint **edge** giving the floor joints a flat, smooth appearance. Shaving of excess joint filler can be approximately 30 minuts after placement, and up to 24 hours later, depending on jobsite conditions such as concrete and ansient temperatures.

G. Joint filler separation: The approved joint filling applicator shall include in their bid a cost per linear foot to make one return trip to refill joints if joint filler sidewall separation or splitting exceeds 1/16," or if surface profile is concave, chattered or if voids occu. This shall take place one week prior to grand opening.

**18) INITIAL CLEANING FOR LIQUID DENSIFIER AND SEALER APPLICATION:**

A. Interior sales floor slab: Thoroughly clean the interior sales floor slab prior to initial application of liquid densifier and sealer by completely removing the specified dissipating or removable curing compound from the floor surface. The following floor stripper or remova solution shall be applied to the floor to thoroughly strip, clean and remove all curing compound residue:

1. If Kurez DR VOX (slab first) was used to cure the slab, use "Itsco Clean & Strip" by Euclid Chemical, applied at the proper water to floor stripper ratio and coverage rate that will completely remove the Kurez DR VOX. Contact: Phil Brandt (877) 438-3826

2. If Kurez RC (slab last) was used to cure the slab, use "Kurez OFF" by Euclid Chemical, applied at the proper water to floor cleaner ratio and coverage rate that will completely remove the Kurez RC. Contact: Phil Brandt (877) 438-3826

**19) POLISHING PROCESS AND APPLICATION OF LIQUID DENSIFIER / SEALER:**

A. All Applicators must be certified by Euclid Chemical or Retro-Plate.

B. The revised process can be used in both "Wet" and "Dry" applications

C. This process assumes a quality concrete finish (meets and/or exceeds the specified floor tolerances) by the floor finisher. Failure to achieve the above criteria shall be cause for replacement of the offending segments or grinding/polishing at no cos to the Owner or Tenant.

D. Only the **Sales Floor** will receive the full 8 step process outlined below under item K.

E. All other areas will only receive steps 1 through 3, no additional worl is necessary. The yellow safety striping will remain.

F. The Black painted border, AMERIPOLISH EDGE TINT (MIDNIGHT BLACK), will not be required in areas behind fixtures, etc…it will only be installed at themain entry door, hallway border, egress doors, doorways into the receiving area, 16" diamond around interior columns and transitions that can be seen by the customers.

G. Steps 2 & 4 are combo steps using different grits of resin bond diamonds on each pass.

H. This is a "Resin" only grind that does not tear away as much of th surface area. The Resin grind will remove a minimal top layer of the concrete surface and should greatly reduce the amount of Waste Product created when compared to the old Metal grind process.

I. If a Cure-n-Seal product is required at the time of slab placement only Water Based Dissipating Sealers are allowed. NO Acrylic Cure-N-Seals are allowed.

J. Prior to application, inspect interior sales floor slab to ensure that slab is clean and free of dust, grease, oils, or other contaminants that might prohibit the proper application and penetration of the liquid densifier and sealer.

K. Process Steps
1. Cut, clean out, prep and fill the concrete floor joints with the Euclid QWIKjoint UVR polyurea joint filler or "CreteFill Pro 75 by CureCrete.
2. Grind concrete floor with a combo set of 40/50 grit resin diamonds
3. Depending on the final finish of the floor, this step may or may not be required. Grind concrete floor with a combo set of SASE metal bond gold series 80 and 150 grit segments or HTC EZ BB brown 4 **series** (60 grit diamonds) and HTC EZ BE Black 5 series (100 Grit Diamonds).
4. Thoroughly clean the concrete floor and apply **Euclid Diamond Eard liquid densifier and sealer** at 225 square feet per gallon or **("RetroPlate 99 liquid densifier at 200 square feet per gallon").**
5. Polish concrete floor with a combo set of SASE Triton 100 grit blck resin diamonds, SASE Triton 200 grit blue resin diamonds or HTC EZ MR black series(100 Grit Diamonds) and HTC EZ MR blue series (200 Grit Diamonds).
6. Polish concrete floor with SASE Triton 400 grit red resin diamond or HTC EZ SR red series (400 grit diamonds).
7. Thoroughly clean concrete floor and then apply **Euclid Diamond Eard liquid densifier and sealer** at 700 square feet per gallon (spiff coat). Or **("RetroPlate 99 liquid densifier at 700 square feet per gallon as a spiff coat").**
8. Burnish / Polish concrete floor with SASE Sure Shine white 800 grit diamond impregnated pads or HTC White Twister pads (800 grit diamond impregnated pads).
9. Burnish / Polish concrete floor with **1500 Grit Diamond Impregnated twister pads** (H.T.C. Yellow TWISTERS or equivalent)

L. All edges must be polished to match concrete floor with coinciding SASE 5" resin Polishing pads or HTC EZ Grind polishing 5" diamond tools.

M. Polish results: Perform polishing process to attain an overall gloss reading of ≥35 specified overall gloss value (SOGV) as measured using a Horiba IG-320, and a specified minimum gloss reading of ≥30 minimum local gloss value (MGLV). A minimum of 75 readings shall be taken throughout the interior sales floor. The approved applicator shall tak four gloss measurement readings at 90° from each other, and then averaged for one reading at each location. The overall measurement shall be reported to Dollar General within 24 hours of fin polishing process. Gloss shall be considered as a quantitative value that expresses the degree o' reflection when light hits the concrete floor surface. Gloss measurements will be taken independent of ambient lighting and will be taken within a sealed measurement window located beneath the test unit.

CONCRETE MASONRY
1. CONCRETE MASONRY WORK SHALL CONFORM TO ACI 530,BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES AND ACI 5301, SPECIFICATION FOR MASONRY STRUCTURES.
2. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE MASONRY SHALL BE F'M=1,500 PSI.
3. MORTAR SHALL COMPLY WITH THE BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY TYPE OF MORTAR: S OR M.
4. COCNRETE MASONRY UNITS SHALL BE GROUTED WITH 2,500 PSI COURSE GROUT AS SHOWN IN THE STRUCTURAL DOCUMENTS. GROUT SHALL CONFORM TO ASTM C476.
5. PROVIDE HORIZONTAL JOINT REINFORCEMENT WITH NO 9 GAGE LONGITUDINAL WIRES AT 16" VERTICALLY, UNLESS NOTED OTHERWISE. PROVIDE SPECIAL ACCESSORIES.
6. MINIMUM VERTICAL WALL REINFORCEMENT SHALL BE #5 AT 48" UNLESS NOTED OTHERWISE.
7. DEFICITIVE AREAS IN CONCRETE INCLUDING, BUT NOT LIMITED TO, HONIY-COMBING, SPALLS AND CRACKS WITH WIDTHS EXCEEDING 0.01 INCH SHALL BE REPAIRED.

NOTE:
ALL STRUCTURAL CONCRETE, INCLUDING FOUNDATION AND SLAB WORK, SHALL BE AS SPECIFIED BY THE STRUCTURAL ENGINEER OF RECORD FOR THIS PROJECT.

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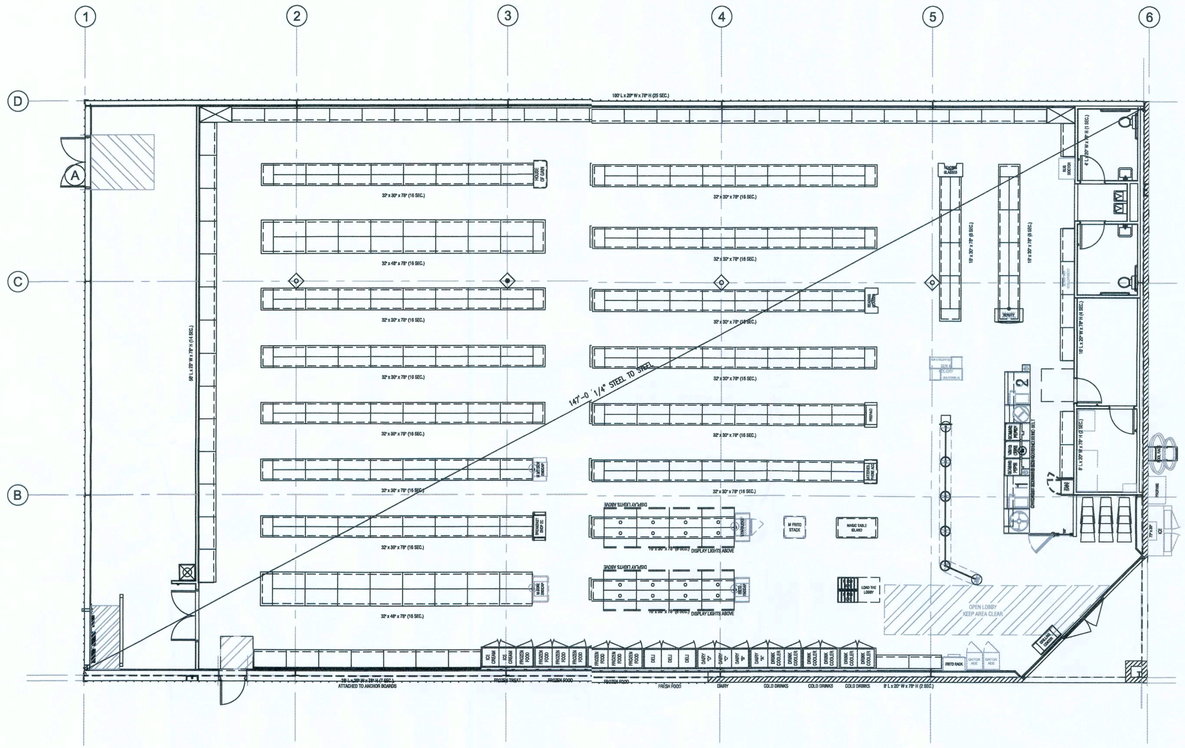
STORE # 19930
2018 PROTOTYPE - PLAN 9100E - 9,100 SQ. FT.

DRAWING DATE / DRAWN BY:
4/5/19 - JEM
REVISION DATE / REVISED BY:
PROJECT NUMBER:
4000.170
DRAWING TITLE:
CONCRETE SPECS
SHEET NO.
A12




1 / V1 FIELD MEASUREMENT
SCALE: 1/8" = 1'-0"

NORTH

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4/12/19

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| | |
|---|---|
| DRAWING DATE: / DRAWN BY: | 4/5/19 - JEM |
| REVISION DATE: / REVISED BY: | |
| PROJECT NUMBER: | 4000.170 |
| DRAWING TITLE: | FIELD MEASUREMENT |
| SHEET NO. | V1 |

## DESIGN CRITERIA:

### BASIS OF DESIGN

ALL CONSTRUCTION IS DESIGNED AS FOLLOWS
FLORIDA BUILDING CODE 6th EDITION (2017)

DEAD LOADS
ROOF 5.5 psf

LIVE LOADS
FLOOR 100 psf
ROOF 20 psf

WIND LOADS
ASCE 7-10, 119 MPH WIND (ULT); 92 MPH (NOMINAL)
BUILDINGS OF ALL HEIGHTS ANALYTICAL METHOD
RISK CATEGORY II
EXPOSURE CATEGORY "B"
ROOF SLOPE: 1/2:12
INTERNAL PRESSURE COEFFICIENTS
$GC_{pi}$=+/- .18, ENCLOSED STRUCTURE
BASIC WIND PRESSURE; q= 31.7 P.S.F. (C&C)
EDGE DISTANCE, a= 7 FT.

## STRENGTH OF MATERIALS

| | |
|---|---|
| REINFORCING STEEL | $f_y$ = 60,000 psi |
| CONCRETE SLAB, BEAMS AND FOOTINGS | $f'_c$ = 4,000 psi |
| REINFORCED MASONRY | $f'_m$ = 1,500 psi |
| MASONRY GROUT | $f'_g$ = 3,000 psi |
| SOIL BEARING PER GEOTECHNICAL REPORT | $S_v$= 2,000 psf |

## GENERAL NOTES:

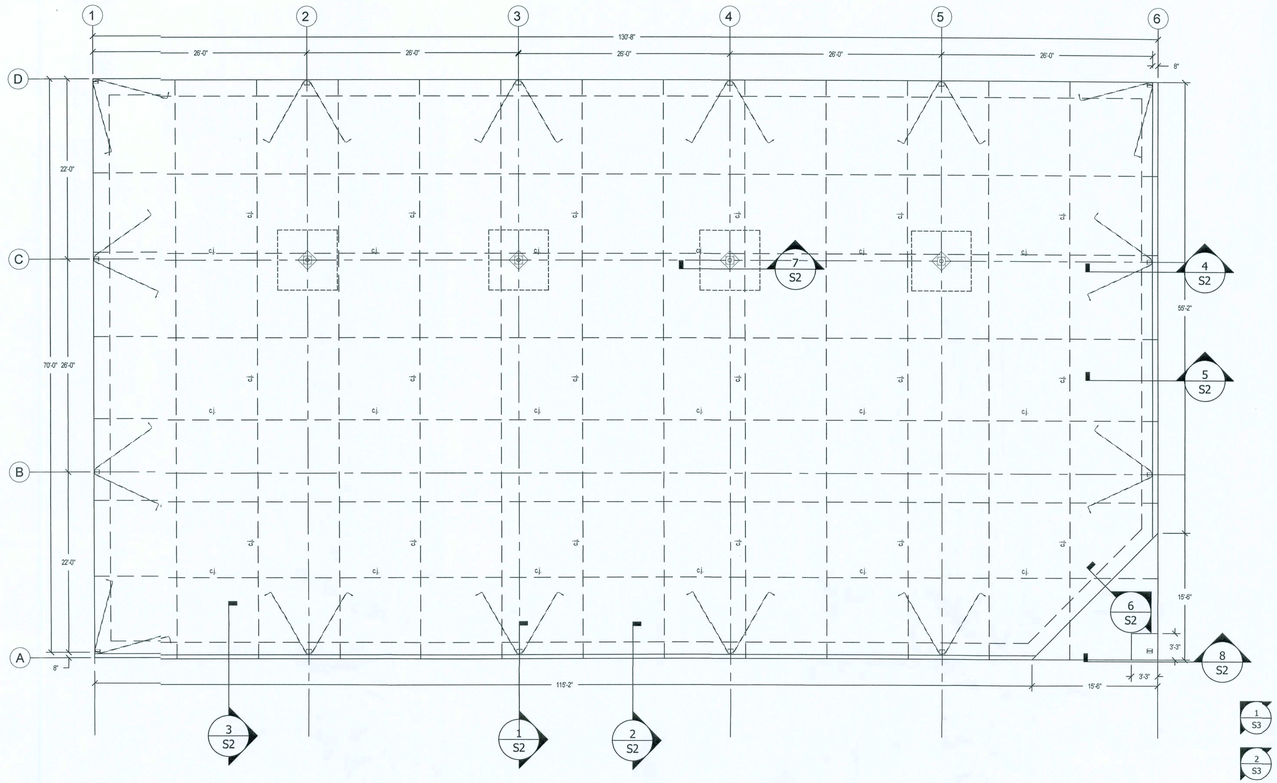
1. PRE-ENGINEERED LIGHT GAUGE STUD FRAMING TO BE DESIGNED IY DELEGATED ENGINEER.

## CONCRETE/MASONRY NOTES:

1. VERIFY ALL DETAILS AND DIMENSIONS WITH EXISTING CONDITIONS,ARCHITECTURAL DOCUMENTS AND PROPERLY COORDINATED APPROVED SHOP DRAWINGS.
2. EXPANSION AND CONTROL JOINTS ARE TO BE PLACED PER A.C.I. RECOMMENDATIONS. PREPARE A CRACK CONTROL PLAN BASED ON CONSTRUCTION SEQUENCING AND PROPOSED ACTUAL FLOOR AND WALL FINISHES AND SUBMIT TO THE ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
   2.1. NO CONTROL JOINT SHALL INTERSECT AN ADJACENT CONTROLJOINT AT AN ANGLE <90°.
   2.2. CONTROL JOINTS SHALL ONLY INTERSECT A CURB OR OTHER STRUCTURAL MEMBER AT ANGLE OF 90°.
3. PROVIDE 48 BAR DIAMETER MINIMUM LAP.
4. ALL FOOTING BOTTOMS MUST BE PLACED A MINIMUM OF 12" BELOW FINISH GRADE.

## TERMITE NOTES:

1. A PERMANENT SIGN WHICH IDENTIFIES THE TERMITE TREATMENT PROVIDER AND NEED FOR RE-INSPECTION AND TREATMENT CONTRACT RENEWAL SHALL BE PROVIDED. THE SIGN SHALL BE POSTED NEAR THE WATER HEATER OR ELECTRIC PANEL.
2. CONDENSATE AND ROOF DOWN SPOUTS SHALL DISCHARGE 1'-0" AWAY FROM BUILDING SIDE WALLS.
3. IRRIGATION/SPRINKLER SYSTEM INCLUDING ALL RISERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 1'-0" OF THE BUILDING SIDE WALLS.
4. TO PROVIDE FOR INSPECTION FOR TERMITE INFESTATION THE DISTANCE BETWEEN WALL COVERING AND FINAL EARTH GRADE SHALL NOT BE LESS THAN 6". EXCEPTION: PAINT OR DECORATIVE CEMENTITIOUS FINISH LESS THAN 5/8" THICK ADHERED DIRECTLY TO THE FOUNDATION WALL.
5. INITIAL TREATMENT SHALL BE DONE AFTER ALL EXCAVATION AND BACKFILL IS COMPLETE. IN ACCORDANCE WITH 2017 6TH EDITION FLORIDA BUILDING CODE SECTION 1816.1.1
6. SOIL DISTRIBUTED AFTER THE INITIAL TREATMENT SHALL BE RE-TREATED INCLUDING SPACES BOXED AND FORMED. IN ACCORDANCE WITH 2017 6TH EDITION FLORIDA BUILDING CODE SECTION 1816.1.2
7. BOXED AREAS IN CONCRETE FLOORS FOR SUBSEQUENT INSTALLATIONS OF TRAPS, ETC., SHALL BE MADE WITH PERMANENT METAL OR PLASTIC FORMS. PERMANENT FORMS MUST BE THE SIZE AND DEPTH THAT WILL ELIMINATE THE DISTURBANCE OF SOIL AFTER THE INITIAL TREATMENT. IN ACCORDANCE WITH 20107 6TH EDITION FLORIDA BUILDING CODE SECTION 2304.11
8. MINIMUM 6 MIL RETARDER MUST BE INSTALLED TO PROTECT AGAINST RAINFALL DILUTION. IF RAINFALL OCCURS BEFORE VAPOR RETARDER PLACEMENT, PRETREATMENT IS REQUIRED. IN ACCORDANCE WITH 2017 6TH EDITION FLORIDA BUILDING CODE SECTION 2304.11.
9. CONCRETE OVER POUR AND MORTAR ALONG THE FOUNDATION PERIMETER MUST BE REMOVED BEFORE EXTERIOR SOIL TREATMENT. IN ACCORDANCE WITH 2017 6TH EDITION FLORIDA BUILDING CODE SECTION 2304.11.
10. SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 1'-0" OF THE STRUCTURE SIDEWALLS. IN ACCORDANCE WITH 2017 6TH EDITION FLORIDA BUILDING CODE SECTION 2304.11.
11. AN EXTERIOR VERTICAL CHEMICAL BARRIER MUST BE INSTALLED AFTER CONSTRUCTION IS COMPLETE INCLUDING LANDSCAPING AND IRRIGATION ANY SOIL DISTRIBUTED AFTER THE VERTICAL BARRIER IS APPLIED, SHALL BE RETREATED. IN ACCORDANCE WITH 2017 6TH EDITION FLORIDA BUILDING CODE SECTION 2304.11.
12. ALL BUILDING ARE REQUIRED TO HAVE PRE-CONSTRUCTION TREATMENT. IN ACCORDANCE WITH 2017 6TH EDITION FLORIDA BUILDING CODE SECTION 2304.11.
13. A CERTIFICATE OF COMPLIANCE MUST BE ISSUED TO THE BUILDING DEPARTMENT BY A LICENSED PEST CONTROL COMPANY BEFORE A CERTIFICATE OF OCCUPANCY WILL BE ISSUED. THE CERTIFICATE OF COMPLIANCE SHALL STATE: "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES." IN ACCORDANCE WITH 2017 6TH EDITION FLORIDA BUILDING CODE SECTION 2304.11.
14. AFTER ALL WORK IS COMPLETED, LOOSE WOOD AND FILL MUST BE REMOVED FROM BELOW AND WITHIN 1'-0" OF THE BUILDING. THIS INCLUDES ALL GRADE STAKES, TUB TRAP BOXES, FORMS, SHORING OR OTHER CELLULOSE CONTAINING MATERIAL.
15. NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, ETC., SHALL BE BURIED WITHIN 15'-0" OF ANY BUILDING OR PROPOSED BUILDING.

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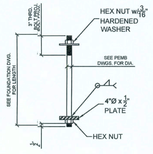
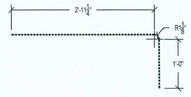
## FOUNDATION PLAN

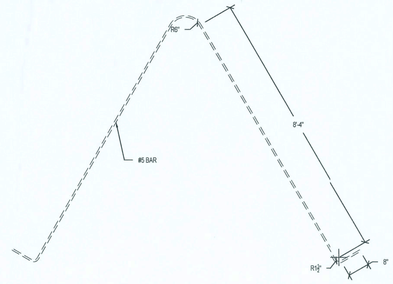
SCALE: 1/8"=1'-0"




ANCHOR BOLT DETAIL
SCALE: N.T.S.




SLAB TIE DETAIL
SCALE: 3/4" = 1'-0"




HAIRPIN DETAIL
SCALE: 3/4" = 1'-0"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STORE # 19930
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DRAWING DATE: / DRAWN BY:
03-04-19 / VMC

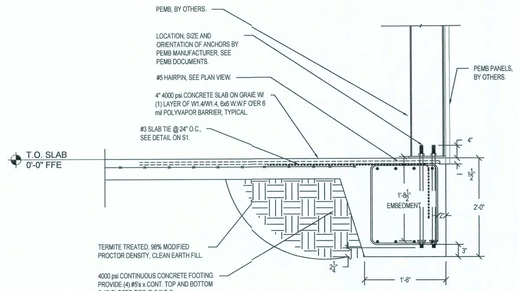
REVISION DATE: / REVISED BY:

PROJECT NUMBER:
E19-179 / 4000.170

DRAWING TITLE:
FOUNDATION PLAN

SHEET NO.
S1

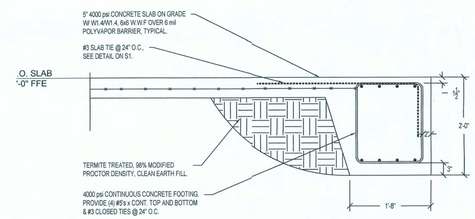
TYPICAL SLAB DETAILS
SCALE: 3/4" = 1'-0"




1 / S2 DETAIL

TYPICAL PERIMETER FOOTING
AT BUILDING FRAME.

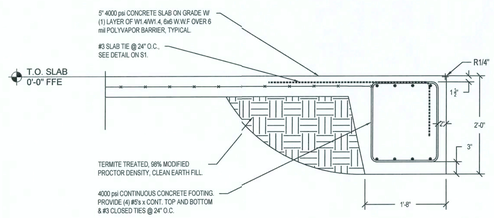
SCALE: 3/4" = 1'-0"




2 / S2 DETAIL

TYPICAL PERIMETER FOOTING
NOT AT BUILDING FRAME.

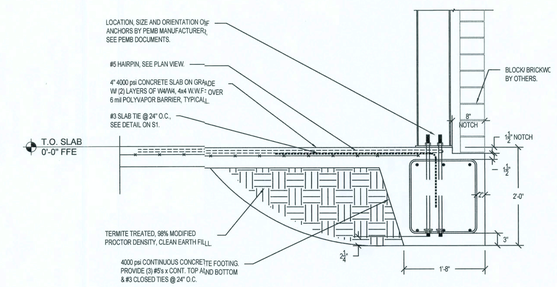
SCALE: 3/4" = 1'-0"




3 / S2 DETAIL

TYPICAL PERIMETER FOOTING
AT ENTRY DOOR.

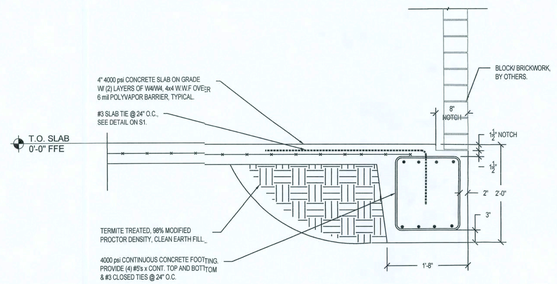
SCALE: 3/4" = 1'-0"




4 / S2 DETAIL

FOOTING ALONG FRONT
FACADE AT BUILDING FRAME.

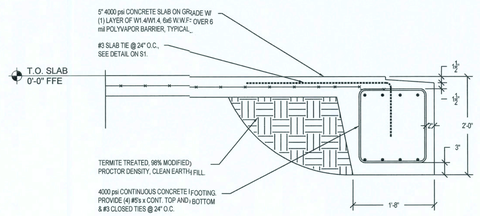
SCALE: 3/4" = 1'-0"




5 / S2 DETAIL

FOOTING ALONG FACADE NOT AT
BUILDING FRAME.

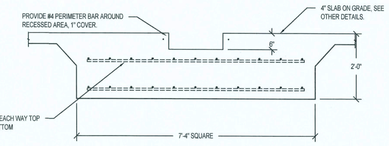
SCALE: 3/4" = 1'-0"




6 / S2 DETAIL

FOOTING ALONG FACADE AT
FRONT ENTRY.

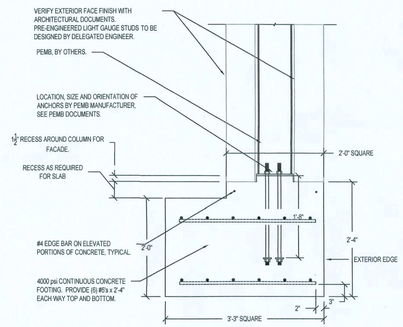
SCALE: 3/4" = 1'-0"




7 / S2 DETAIL

TYPICAL INTERIOR FOOTING.

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




8 / S2 DETAIL

PIER FOOTING @ CORNER
ENTRY

SCALE: 3/4" = 1'-0"

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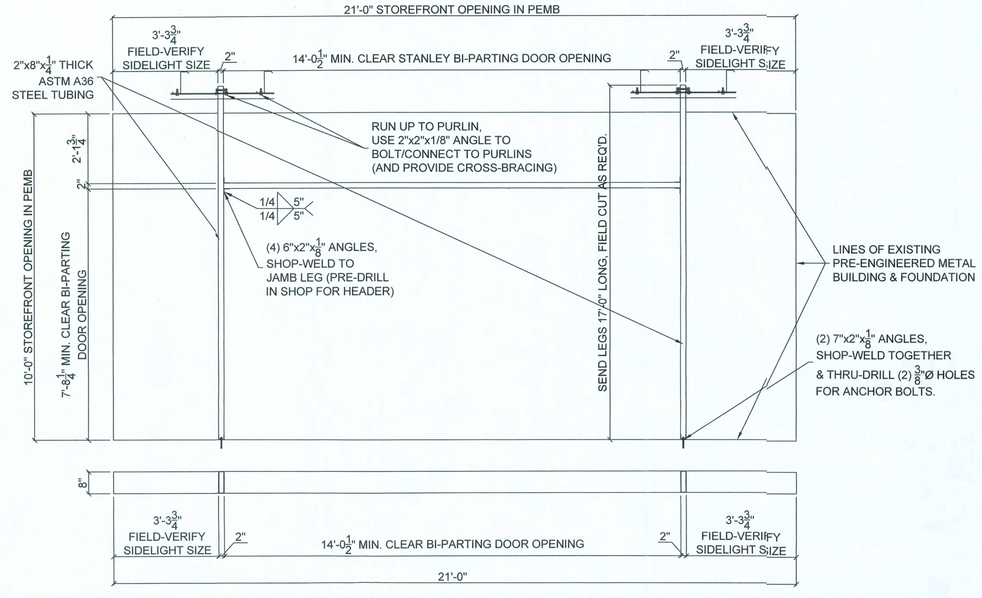
E19-179 / 4000.170

DRAWING TITLE:
FOUNDATION DETAILS

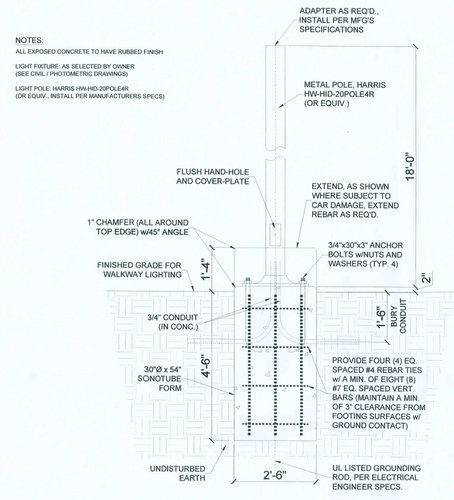
SHEET NO.
S2




1 S3 **DETAIL**

STEEL FRAME AT FRONT ENTRY.

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




## LIGHT POLE DESIGN CRITERIA:

### BASIS OF DESIGN

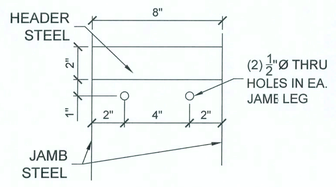
ALL CONSTRUCTION IS DESIGNED AS FOLLOWS
FLORIDA BUILDING CODE 6th EDITION (2017)

WIND LOADS
ASCE 7-10, 119 MPH WIND (ULT); 92 MPH (NOMINAL)
SIGNS ANALYTICAL METHOD
STRUCTURE CATEGORY II
TERRAIN EXPOSURE "B"
BASIC WIND PRESSURE: q= 31.2 P.S.F.
* TREATED AS SIGNAGE

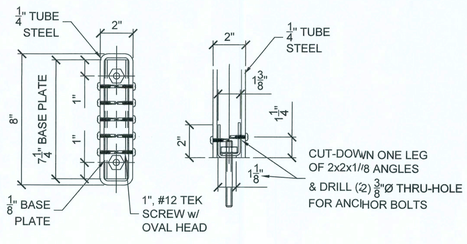
2 S3 **DETAIL**

LIGHT POLE

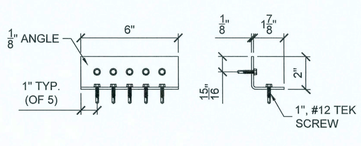
SCALE: 1/2" = 1'-0"



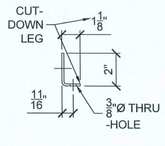

JAMB HOLE DETAIL
SCALE: 3" = 1'-0"




ANGLE DETAIL
SCALE: 3" = 1'-0"




BASE PLATE DETAIL
SCALE: 3" = 1'-0"




BASE PLATE DETAIL
SCALE: 3" = 1'-0"

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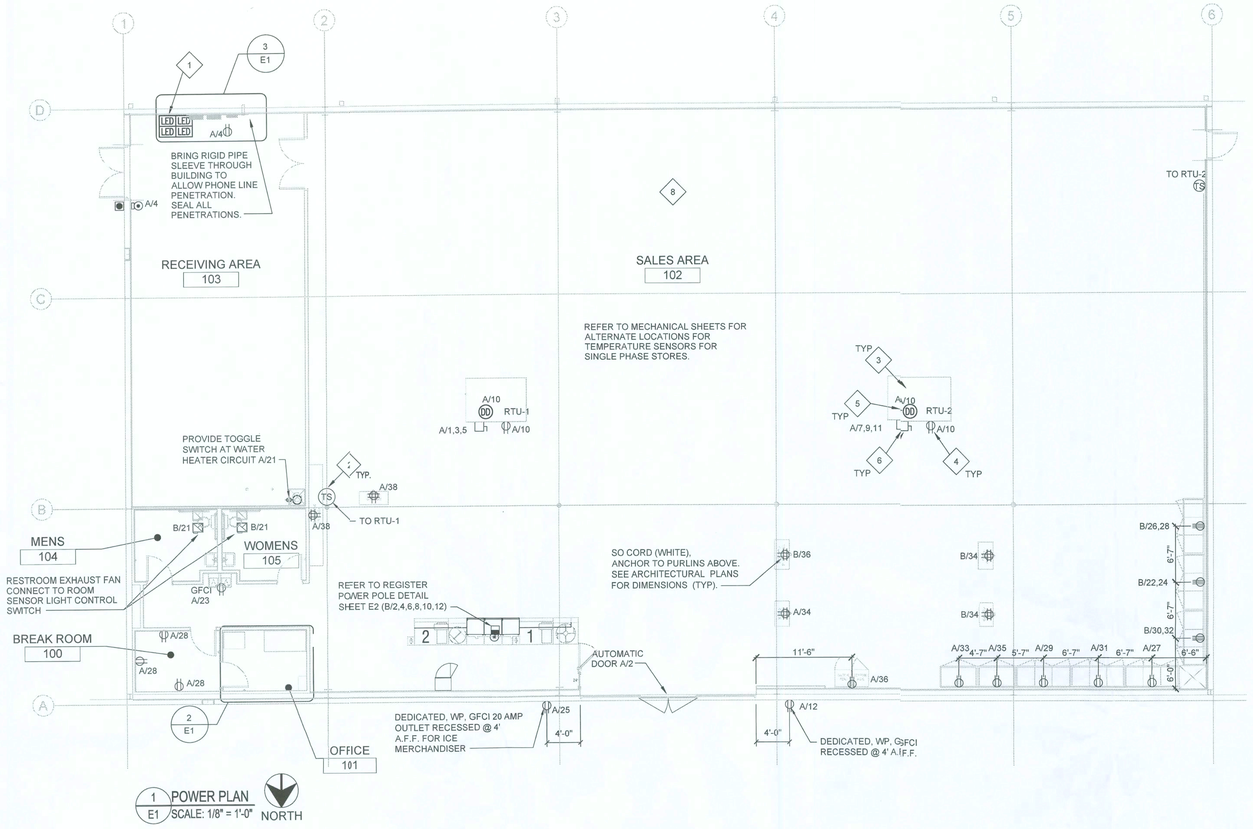
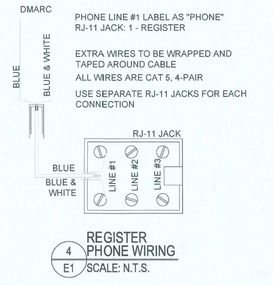
DRAWING TITLE:
STEEL DETAILS

SHEET NO.
S3




4 REGISTER PHONE WIRING
E1 SCALE: N.T.S.

## LEGEND

| SYMB | DESCRIPTION |
|---|---|
| · | BUZZER - TORK MDL #TA725 W/ TRANSFORMER MDL#TA592 |
| · | COMMERCIAL GRADE PUSH BUTTON |
| A/23 | 125V NEMA 5-20R DUPLEX, PANEL/CIRCUIT IN PANEL |
| | 125/250V NEMA L14-20-R 4 PRONG TWIST LOCK |
| · | 125V NEMA 5-20R QUAD |
| · | DISCONNECT |
| · | BLACK MAGIC POWER POLE |
| ▲ | PHONE JACK @ REGISTER |
| | RJ-11, RJ-45 DATA JACK, PHONE COMBO @ OFFICE |
| A/23 | PANEL/CIRCUIT IN PANEL |
| $m | PROVIDE OCCUPANCY LIGHT SENSOR- LEVITON ODS10-IDW |
| $ | 20 AMP TOGGLE SWITCH |
| NL | NIGHT LIGHT CIRCUIT |

## ELECTRICAL SPECIFICATIONS

A. ALL WIRING SHALL SHALL BE CONTAINED IN CONDUIT OF PROPER SIZE.

B. ALL WIRING SHALL CONFORM TO LOCAL, STATE AND FEDERAL CODES.

C. SERVICE IS TO BE A MINIMUM 400 AMP, 3 PHASE (PREFERRED), 600 AMP, 1 PHASE OR LARGER IF REQUIRED BY CODE OR ELECTRICAL LOAD.

D. REQUIRED CUSTOM BUILT POWER POLE ASSEMBLIES AVAILABLE FROM D&P CUSTOM LIGHTS & PRODUCTS INC., PHONE: (800) 251-2200 OR (615) 350-7800, 7111 COCKRILL BEND INDUSTRIAL ROAD, NASHVILLE, TN 37209. SEE E3.1.

E. EXTERIOR EXPOSED PHONE LINES TO BE INSTALLED IN RIGID CONDUIT. PROVIDE EMERSON 3/4" X 5-FT. METALLIC CABLE U-GUARD #755, OR EQUAL.

F. ELECTRICAL PANEL TO BE LABELED CORRECTLY WITH LEGIBLE PRINT.

G. LOW VOLTAGE VENDOR TO PROVIDE AND INSTALL ONE (1) 24 GA., 4 TWISTED-PAIR, CATEGORY-FIVE (CAT5) DATA CABLE WITH MODULAR COMBO RJ-11/RJ-45 JACK AT MANAGER'S OFFICE. CABLE TO BE RUN FROM JACK TO DATA HUB LOCATION WITH 6'-0" LEFT COILED FOR INSTALLATION TO DATA HUB. A RJ-45 MALE FITTING SHOULD BE CRIMPED ON THIS END. DOLLAR GENERAL STORE OPENING TEAM WILL MAKE FINAL CONNECTION INTO THE DATA HUB.

H. PROVIDE 1 1/2" EMT CONDUIT TO ACT AS ACCESS SLEEVE TO ALLOW PHONE COMPANY TO TERMINATE AT DMARC. CONTRACTOR TO PROVIDE AND INSTALL PHONE WIRING & RJ-11 PHONE JACK FOR COMPLETED WORKING SYSTEM PRIOR TO PHONE COMPANY FINAL HOOK UP.

I. ALL 120 VOLT OUTDOOR RECEPTACLES TO HAVE "WET LOCATION - IN USE" COVERS.

J. ALL CONDUCTORS TO BE COPPER, #12 AWG MINIMUM SIZE, OR AS REQUIRED BY LOAD AND OVER CURRENT PROTECTION.

K. SEE EMS SHEETS EMS1 AND EMS2 FOR ENERGY MANAGEMENT SYMBOLS AND INFORMATION.

L. ELECTRICIAN TO PROVIDE 1 1/2" CONDUIT WITH PULL STRINGS FOR SATELLITE LOCATION.

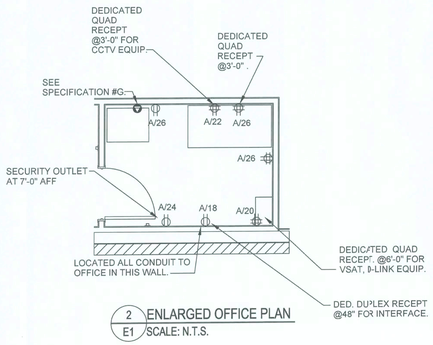
M. ALL POWER AND DATA TO BE ROUTED OVERHEAD. UNDER SLAB NOT ALLOWED.

N. WIRE SIZE TO BE #8 OR #10 FOR ALL COOLERS/FREEZERS.

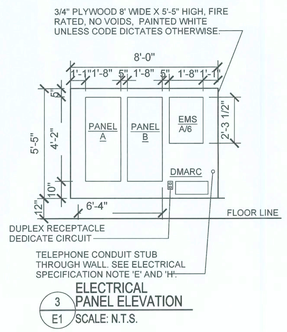
O. MOUNT ALL REFRIGERATOR OUTLETS AT 12" AFF.

## ELECTRICAL KEYED NOTES

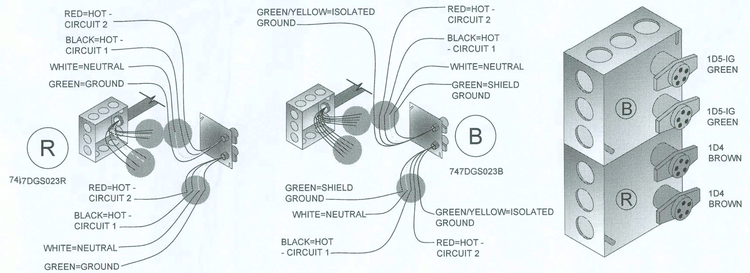
1. TEST/RESET STATION FOR STAND ALONE DUCT DETECTOR. ONE FOR EACH DEVICE, SEE KEY NOTE 5 ON THIS SHEET. SIMPLEX #4098-9842 IS SPECIFIED. WITH PIEZO AND LED INDICATOR
2. MECHANICAL THERMOSTAT AT 8'-0" A.F.F.
3. LOCATIONS SHOWN FOR MECHANICAL UNITS ARE ONLY APPROXIMATE. CONTRACTOR MUST CONSULT MECHANICAL OR STRUCTURAL DRAWINGS TO DETERMINE ACTUAL UNIT LOCATIONS. PROVIDE 1/2"ϕ. PENETRATION THRU ROOF WITHIN FOOTPRINT OF UNIT FOR USE WITH CONTROL WIRING TO UNIT BY OTHERS. PROVIDE PROPER WATERSEAL. (TYPICAL)
4. FACTORY MOUNTED CONVENIENCE OUTLET (ELECTRICAL CONTRACTOR TO PROVIDE IF NOT FACTORY INSTALLED). PROVIDE CIRCUIT AS SHOWN, WIRE ALL WITH THIS NOTE TO A SPARE BREAKER IN PANEL "A" IF THEY ARE NOT POWERED.
5. PHOTOELECTRIC DUCT DETECTOR WITH HOUSING. TIE TO LED READOUT RECESSED IN DUCT. STAND ALONE DEVICE, 120V. SIMPLEX #4098-9667 IS SPECIFIED WITH 4098-9842 CONTROL STATION. PROVIDE ONE DEVICE PER UNIT. MOUNT DEVICE IN SUPPLY AIR DUCTWORK. DEVICE SHALL BE PROVIDED AND WIRED TO THE CONTROL STATION BY THE ELECTRICAL CONTRACTOR. HIRE THE MECHANICAL CONTRACTOR FOR INSTALLATION IN DUCTWORK & CONNECTION TO SHUTDOWN CONTROLS. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED RELAYS AND 120V POWER. DO NOT POWER DUCT DETECTORS FROM HVAC UNIT LOW VOLTAGE. SUBMIT SHOP DRAWINGS FOR APPROVAL. PLACE ANY REQUIRED LABELING ON CEILING TILE DIRECTLY BELOW UNIT. RUN CONDUIT & WIRE UNDERGROUND FROM UNIT TO INSIDE OF SPACE.
6. MOUNT DISCONNECT SWITCH AT UNIT. ALL DISCONNECTS TO BE HEAVY DUTY. FUSES TO BE RK-5 TYPE, BUSSMANN FRN-R-(AMP) IS SPECIFIED. SEE EQUIPMENT SCHEDULE ON E3.1.
7. SO WHITE ELECTRICAL CORD IS NEEDED. SEE SHEET A1, NOTE 26.
8. CONFIRM THE FINAL NUMBER AND LOCATION OF OUTLETS IN SALES AREA WITH THE FINAL DG FIXTURE PLAN.




2 ENLARGED OFFICE PLAN
E1 SCALE: N.T.S.




3 ELECTRICAL PANEL ELEVATION
E1 SCALE: N.T.S.




## REGISTER ELECTRICAL COMPONENTS

| QTY | PART NUMBER | DESCRIPTION | VENDOR |
|---|---|---|---|
| 1 | 747DGS023B | DUAL CIRCUIT POWER KIT WITH ISOLATED GROUND | D & P |
| 1 | 747DGS023R | DUAL CIRCUIT POWER KIT | D & P |
| 1 | 747DGS044-12BK | 12' 2CH REGULAR POLE W/2-C & 1-D CONNECTOR DRW #2004-12 | |
| 1 | 747DGS032A | 10' CABLE KIT (SET OF 4 WHIPS) | |

*NOTE: BEFORE ORDERING AND INSTALLATION OF ELECTRICAL COMPONENTS FOR REGISTERS, CONSULT FINAL FIXTURE PLAN FOR NUMBER AND LOCATION.

MAXIMUM CIRCUITS FOR REGISTERS:
- CIRCUITS AT MAIN REGISTER - (9) 110V
- CIRCUITS AT ISLAND REGISTER - (3) 110V

4 REGISTER ELECTRICAL DETAIL
E1 SCALE: N.T.S.

SEAL DATE: 5/6/19

NAWWAF A. AHMAD LICENSE No. 56095 STATE OF FLORIDA PROFESSIONAL ENGINEER

NAWWAF AHMAD, P.E.

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(Contact: Sam Ahmad)

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CONCEPT COMPANIES

3324 W. University Ave., #PMB#5 / GAINESVILLE, FL 32607
LICENSE # CGC-1515491
PH: 877-399-1029 / FAX: 800-218-7809
www.conceptcompanies.net

DOLLAR GENERAL®

2144 SW BIRLEY AVE.
LAKE CITY, FL 32024

STORE # 19930
2018 PROTOTYPE - PLAN 9'0.00"C" - 9,100 SQ. FT.

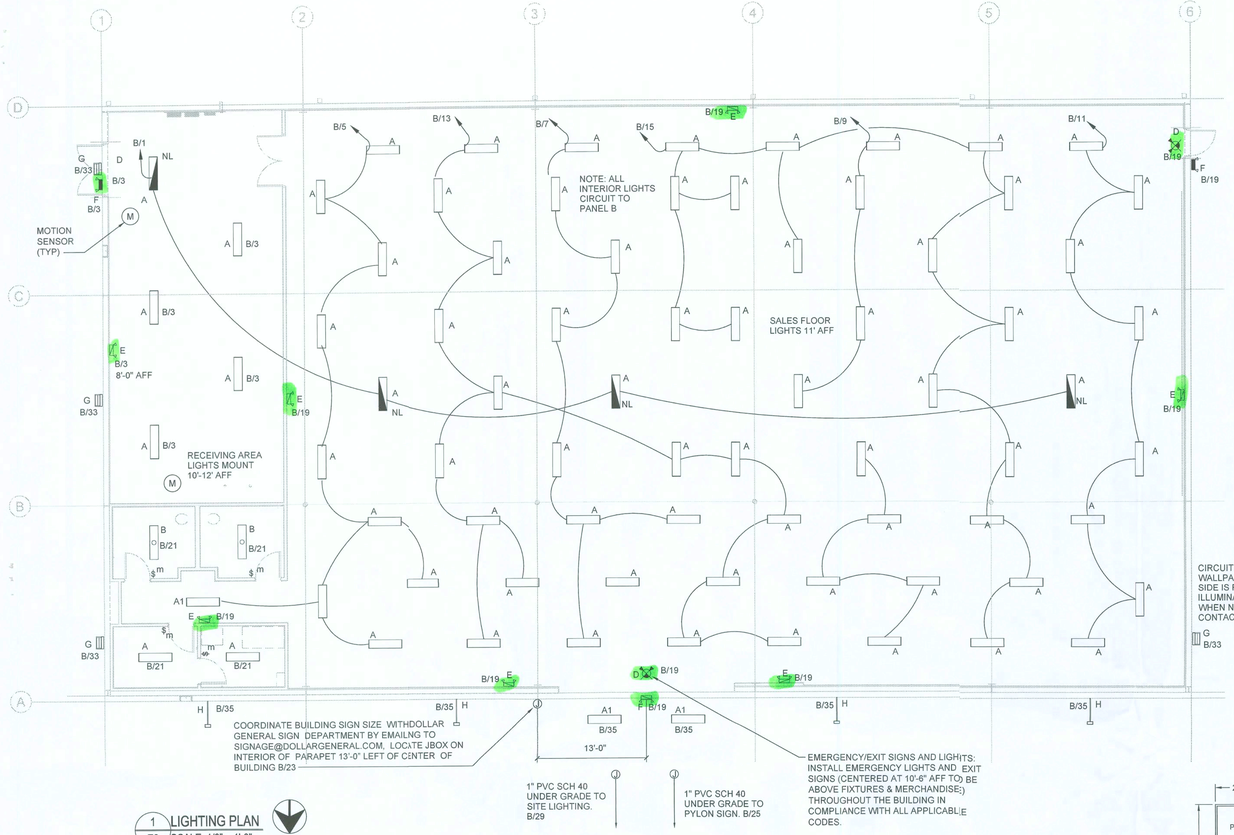
DRAWING DATE: / DRAWN BY:
4/5/19 - NSA

REVISION DATE: / REVISED BY:

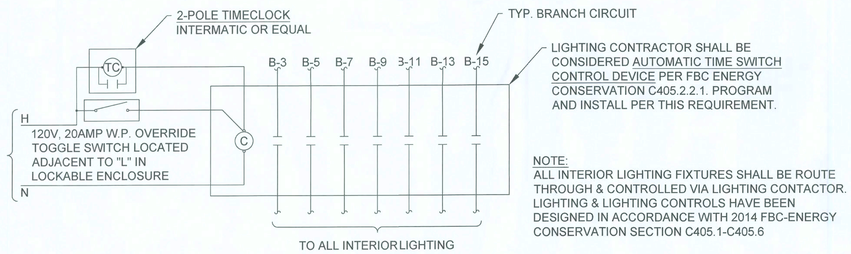
PROJECT NUMBER:
4000.170

DRAWING TITLE:
POWER PLAN

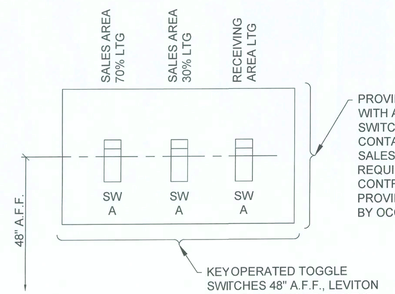
SHEET NO.
E1



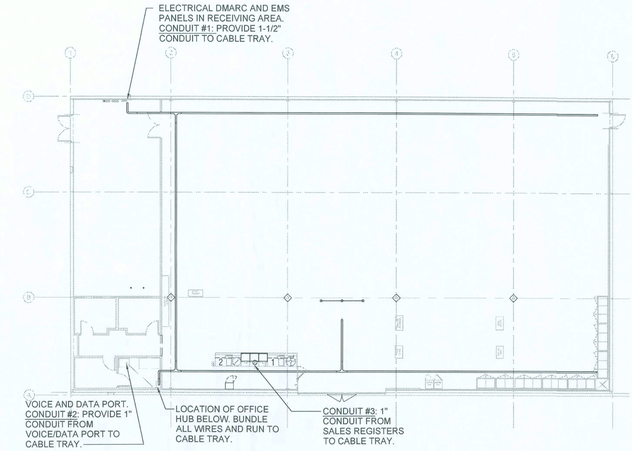

1 E2 LIGHTING PLAN
SCALE: 1/8" = 1'-0"
NORTH




4 E2 INTERIOR LIGHTING CONTROL DIAGRAM "LC-1"
SCALE: N.T.S.




5 E2 SWITCH BANK DETAIL
SCALE: N.T.S.

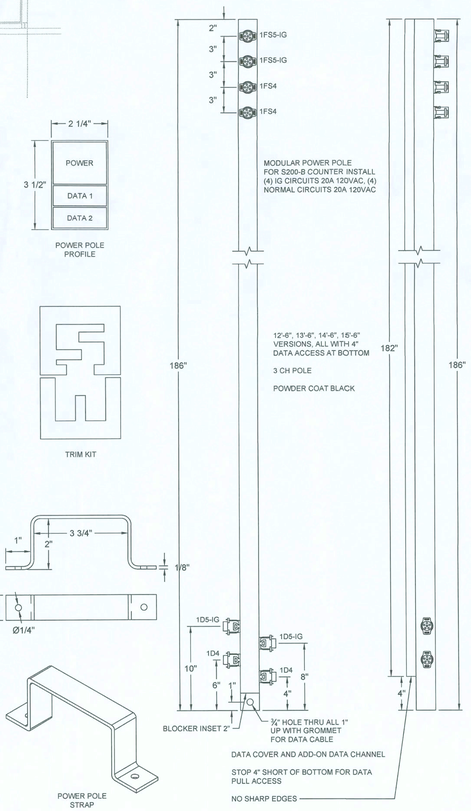


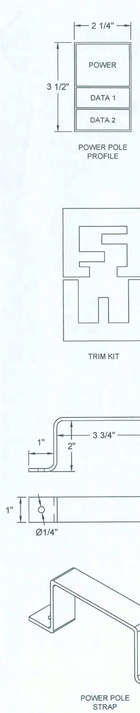

2 E2 CABLE TRAY & CONDUIT DIAGRAM
SCALE: N.T.S.

## LEDS LIGHT FIXTURE SCHEDULE

| SYMBOL | TYPE | MANF. | PART # | DESCRIPTION | W |
|---|---|---|---|---|---|
| ▭ | A | ETI | 54573161 | 4' LED FIXTURE AERIAL MOUNT INCLUDES (2) 8 FT CABLES | 33 |
| ▭ | A1 | ETI | 54573161 | 4' LED FIXTURE SURFACE MOUNT | 33 |
| ▭ | B | ETI | 54260161 | 2' LED FIXTURE SURFACE MOUNT | 20 |
| ⊠ | C | ETI | 55301101 | LED EXIT SIGN | – |
| ⊠ | D | ETI | 55502201 | LED EXT SIGN / EMERGENCY LIGHT COMBO WITH (2) HEADS | – |
| ⌂ | E | ETI | 55501101 | LED EMERGENCY LIGHT WITH (2) HEADS | – |
| ⌂ | F | ETI | 55503101 | LED EGRESS EMERGENCY LIGHT WITH (2) HEADS | – |
| ▭ | G | TECHLIGHT | LHSWP-1-C-4-T3-F1-BZ | LED WALL PACK | 38 |
| ▭ | H | TECHLIGHT | LSBT-1-C-X-T3-F1-BZ ON WMUPS42 | LED AREA LIGHT ON WALL MOUNT 42" EXTENSION ARM | 147 |
| ▭ | S | TECHLIGHT | (2) LSBT-1-C-X-T3-F1-BZ ON SS3P-24-4-11-BZ-DM2180 | (2) LED AFEA LIGHTS ON 24' POLE | 294 |

NOTE: REFER TO SHEET 'T01' FOR NATIONAL ACCOUNT VENDORS LIST




3 E2 REGISTER POWER POLE
SCALE: N.T.S.

SEAL DATE: 5/6/19

NAWAF A. AHMAD LICENSE No. 56095 STATE OF FLORIDA PROFESSIONAL ENGINEER

NA/WAF AHMAD, P.E.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CERTIFICATE OF AUTHORIZATION #29581



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LICENCE# CGC-1515497 / FGBC-1515497
PH: 877.219.7809 / FAX: 877.219.7809
WWW.CONCEPTCOMPANIES.NET


DOLLAR GENERAL®
2144 SW BIRLEY AVE.
LAKE CITY, FL 32024
STORE # 19930
2018 PROTOTYPE - PLAN '9100C' - 9,100 SQ. FT.

DRAWING DATE: / DRAWN BY:
4/5/19 - NSA
REVISION DATE: / REVISED BY:

PROJECT NUMBER:
4000.170

DRAWING TITLE:
LIGHTING PLAN

SHEET NO.
E2

| NOTES | MOUNT: SURFACE | | | 120/208 | 3-PHASE, 4W | PANEL A | | | | CAPACITY: 400A | | INT CAP: 400KA | | | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LOCATION: BACK OF BLDG. | | | | | LUGS: MCB | | | | DEMAND LOAD: 287A | | AV. FAULT: 32 KA | | | |
| | CKT | LTG | REC | HVAC | MISC | NP | DESCRIPTION | AMP | POLE | Φ | AMP | POLE | DESCRIPTION | LTG | REC | HVAC | MISC | NP | CKT | |
| | 1 | | | 11.2 | | | RTU 1 | 100 | 3 | A | 20 | 1 | AUTOMATIC DOOR | | | | 0.1 | | 2 | C |
| | 3 | | | 11.2 | | | | | | B | 20 | 1 | PHONE BOARD/BUZZER | | | | 0.4 | | 4 | C |
| | 5 | | | 11.2 | | | | | | C | 20 | 1 | ENERGY MANAGEMENT | | | | 0.2 | | 6 | C |
| | 7 | | | 11.2 | | | RTU 2 | 100 | 3 | A | 20 | 1 | SPARE | | 0.2 | | | | 8 | |
| | 9 | | | 11.2 | | | | | | B | 20 | 1 | OUTDOOR HVAC REC | | 0.7 | | | | 10 | |
| | 11 | | | 11.2 | | | | | | C | 20 | 1 | OUTDOOR DRINK VEND | | 0.2 | | | | 12 | |
| | 13 | | | 13.5 | | | PANEL B | 200 | 3 | A | 20 | 1 | SPARE | | | | | | 14 | |
| | 15 | | | 13.5 | | | | | | B | 20 | 1 | SPARE | | | | | | 16 | |
| | 17 | | | 13.5 | | | | | | C | 20 | 1 | INTERFACE EQUIP | | | | 0.5 | | 18 | |
| C | 19 | | | | 1.7 | | WATER HEATER | 20 | 1 | A | 20 | 1 | VSAT SATA HUB EQUIP | | | | 0.5 | | 20 | |
| C | 21 | | | | 1.7 | | WATER HEATER | 20 | 1 | B | 20 | 1 | CCTV EQUIP | | | | 1.0 | | 22 | |
| | 23 | | | | 0.2 | | DRINKING FOUNTAIN | 20 | 1 | C | 20 | 1 | SECURITY REC | | 0.2 | | | | 24 | C |
| C | 25 | | 0.2 | | | | OUTDOOR ICE REC | 20 | 1 | A | 20 | 1 | OFFICE REC | | 0.7 | | | | 26 | C |
| C | 27 | | | 1.2 | | | COOLER #1 | 20 | 1 | B | 20 | 1 | BREAK ROOM REC | | 0.5 | | | | 28 | |
| C | 29 | | | 1.2 | | | COOLER #2 | 20 | 1 | C | 20 | 1 | SPARE | | 0.5 | | | | 30 | |
| C | 31 | | | 1.2 | | | COOLER #3 | 20 | 1 | A | 20 | 1 | SPARE | | 0.5 | | | | 32 | |
| C | 33 | | | 1.2 | | | COOLER #4 | 20 | 1 | B | 20 | 1 | ICE CREAM FREEZER | | 0.2 | | | | 34 | C |
| C | 35 | | | 1.8 | | | COOLER #5 | 20 | 1 | C | 20 | 1 | GATORADE | | 0.8 | | | | 36 | C |
| | 37 | | | | | | SPARE | 20 | 1 | A | 20 | 1 | SPARE | | | | | | 38 | |
| | 39 | | | | | | SPARE | 20 | 1 | B | 20 | 1 | SPARE | | | | | | 40 | |
| | 41 | | | | | | SPARE | 20 | 1 | C | 20 | 1 | SPARE | | | | | | 42 | |

| PHASE BALANCE | | | LOAD TYPE | CONNECTED | DEMAND | DEMAND FORMULA | TOTAL LOAD | |
|---|---|---|---|---|---|---|---|---|
| Φ | LOAD | % | LIGHTING | 0.0 KVA | 0.0 KVA | LOAD X 125% NEC 210.19 CONTINUOUS | CONNECTED | DEMAND |
| A | 40.9 KVA | 33% | RECEPTACLE | 4.7 KVA | 4.7 KVA | 10KVA + 50% REMAINDER NEC 220.44 | 124.9 KVA | 103.4KVA |
| B | 42.7 KVA | 34% | HVAC | 107.3 KVA | 86.0 KVA | LOAD X 80% (USED MCA IN CALCULATION) | 346.6A | 286.9A |
| C | 41.2 KVA | 33% | MISC | 12.7 KVA | 12.7 KVA | LOAD X 100% NEC 210.19 NON-CONT. | FILENAME: | |
| | | | NP | 0.0 KVA | 0.0 KVA | 0 NONCOCINCIDENTAL LOADS NEC 220.60 | SCHEME CD 208 LOAD.xls | |

NOTES:
A. AIC RATING: SERIES RATED AT 200,000 AMPS WITH BUSSMANN JJN FUSES.
B. BREAKERS FOR HVAC UNITS SHALL BE SIZED PER MANUFACTURER REQUIREMENTS.
C. BREAKER LOCK.
D. ISOLATED GROUND BUS.

| NOTES | MOUNT: SURFACE | | | 120/208 | 3-PHASE, 4W | PANEL B | | | | CAPACITY: 200A | | INT CAP: 200KA | | | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LOCATION: BACK OF BLDG. | | | | | LUGS: MCB | | | | DEMAND LOAD: 122A | | AV. FAULT: 32KA | | | |
| | CKT | LTG | REC | HVAC | MISC | NP | DESCRIPTION | AMP | POLE | Φ | AMP | POLE | DESCRIPTION | LTG | REC | HVAC | MISC | NP | CKT | |
| B,C | 1 | 0.4 | | | | | NIGHT LTS | 20 | 1 | A | 20 | 1 | PWR TERM BROWN | | | | 1.2 | | 2 | C |
| B,C | 3 | 0.2 | | | | | RECEIVING LTS | 20 | 1 | B | 20 | 1 | PWR TERM BROWN | | | | 1.2 | | 4 | C |
| B | 5 | 0.9 | | | | | 70% SALES LTS | 20 | 1 | C | 20 | 1 | PWR TERM GREEN | | | | 1.2 | | 6 | C |
| B | 7 | 1.4 | | | | | 70% SALES LTS | 20 | 1 | A | 20 | 1 | PWR TERM GREEN | | | | 1.2 | | 8 | C |
| B | 9 | 1.4 | | | | | 70% SALES LTS | 20 | 1 | B | 20 | 1 | PWR TERM GREEN | | | | 1.6 | | 10 | C |
| B | 11 | 0.8 | | | | | 70% SALES LTS | 20 | 1 | C | 20 | 1 | PWR TERM GREEN | | | | 1.6 | | 12 | C |
| B | 13 | 1.3 | | | | | 30% SALES LTS | 20 | 1 | A | 20 | 1 | SPARE | | | | 1.6 | | 14 | C |
| B | 15 | 1.0 | | | | | 30% SALES LTS | 20 | 1 | B | 20 | 1 | SPARE | | | | 1.6 | | 16 | C |
| | 17 | | | | | | SPARE | 20 | 1 | C | 20 | 1 | SPARE | | | | | | 18 | |
| C | 19 | 0.1 | | | | | EMERGENCY/EXIT LTS | 20 | 1 | A | 20 | 1 | SPARE | | | | | | 20 | |
| C | 21 | 0.2 | | | | 0.1 | BREAK/OFFICE LTS/EF'S | 20 | 1 | B | 20 | 2 | FREEZER #1 | | | | | 1.6 | 22 | C |
| B | 23 | 1.2 | | | | | BUILDING SIGN | 20 | 1 | C | | | | | | | | 1.6 | 24 | |
| B | 25 | 0.9 | | | | | PYLON SIGN | 20 | 1 | A | 20 | 2 | FREEZER #2 | | | | | 1.6 | 26 | C |
| | 27 | | | | | | SPARE | 20 | 1 | B | | | | | | | | 1.6 | 28 | |
| B | 29 | 1.2 | | | | | SITE LIGHTING | 20 | 1 | C | 20 | 2 | FREEZER #3 | | | | | 1.6 | 30 | C |
| B | 31 | 0.8 | | | | | EXTERIOR LTS | 20 | 1 | A | | | | | | | | 1.6 | 32 | |
| B | 33 | 0.9 | | | | | FRNT WALL/CANPY LTG | 20 | 1 | B | 20 | 1 | SODA COOLERS | | | | | 1.6 | 34 | C |
| B | 35 | 0.9 | | | | | EXTERIOR LTS | 20 | 1 | C | 20 | 1 | DRINK COOLERS | | | | | 1.6 | 36 | C |
| B | 37 | 0.9 | | | | | EXTERIOR LTS | 20 | 1 | A | | | | | | | | | 38 | |
| B | 39 | 0.9 | | | | | EXTERIOR LTS | 20 | 1 | B | 70 | 3 | | | | | | | 40 | |
| B | 41 | 0.5 | | | | | EXTERIOR DUSK/DAWN | 20 | 1 | C | | | | | | | | | 42 | |

| PHASE BALANCE | | | LOAD TYPE | CONNECTED | DEMAND | DEMAND FORMULA | TOTAL LOAD | |
|---|---|---|---|---|---|---|---|---|
| Φ | LOAD | % | LIGHTING | 15.9 KVA | 19.9 KVA | LOAD X 125% NEC 210.19 CONTINUOUS | CONNECTED | DEMAND |
| A | 13.0 KVA | 33% | RECEPTACLE | 0.0 KVA | 0.0 KVA | 10KVA + 50% REMAINDER NEC 220.44 | 48.0 KVA | 44.9KVA |
| B | 13.9 KVA | 35% | HVAC | 0.1 KVA | 0.1 KVA | LOAD X 80% (USED MCA IN CALCULATION) | 111.0A | 122.0A |
| C | 13.1 KVA | 33% | MISC | 24.0 KVA | 24.0 KVA | LOAD X 100% NEC 210.19 NON-CONT. | FILENAME: | |
| | | | NP | 0.0 KVA | 0.0 KVA | 9 NONCOCINCIDENTAL LOADS NEC 220.60 | SCHEME CD 208 LOAD.xls | |

NOTES:
A. AIC RATING: SERIES RATED AT 200,000 AMPS WITH BUSSMANN JJN FUSES.
B. ROUTING TO THE EMS PANEL.
C. BREAKER LOCK.
D. ISOLATED GROUND BUS.

| 120/208 | 3-PHASE, 4W | PANEL LOAD | CAPACITY: 400A | |
|---|---|---|---|---|
| LOAD TYPE | CONNECTED | DEMAND | DEMAND FORMULA | TOTAL LOAD: CONNECTED / DEMAND |
| LIGHTING | 10.2 KVA | 12.8 KVA | LOAD X 125% NEC 210.19 CONTINUOUS | 88.4 KVA / 83.7KVA |
| RECEPTACLE | 5.1 KVA | 5.1 KVA | 10KVA + 50% REMAINDER NEC 220.44 | |
| HVAC | 36.4 KVA | 29.1 KVA | LOAD X 80% (USED MCA IN CALCULATION) | 245.3A / 232.2A |
| MISC | 36.7 KVA | 36.7 KVA | LOAD X 100% NEC 210.19 NON-CONT. | FILNAME: |
| NP | 0.0 KVA | 0.0 KVA | 0 NONCOCINCIDENTAL LOADS NEC 220.60 | DG-9100-CD208.xlsx |

## RTU'S DISCONNECT SIZE

| RTU# | MFG. | PHASE/VOLT. | MCA | OCPD | HEAT | MODEL NUMBER | |
|---|---|---|---|---|---|---|---|
| #1 | LENNOX | 3-208V | 93A | 100A | ELECTRIC | LCH122U4EJ1Y | C |
| -#2 | LENNOX | 3-208V | 93A | 100A | ELECTRIC | LCH122U4EJ1Y | |
| CALL LENNOX | | | | | | | |

## UTILITY TRANSFORMER FAULT CALCULATION

| SERVICE ENTRANCE | | CALCULATION |
|---|---|---|
| VOLTAGE (L-L): | 208V | I-FLA=[RATED KVA * 1000]/ [V-LL*SQRT(PHASE)] |
| PHASE (PH): | 3 | |
| AMPS: | 400A | I-FLA= 416A |
| FULL LOAD KVA: | 144KVA | |
| TRANSFORMER: | 150KVA | M=100/%Z= 93.5 |
| IMPEDANCE (%Z): | 1.1%Z | I-SC=I-FLA*M= 39 KA |

CALCULATION IS BASED ON ESTIMATED TRANSFORMER SIZE WITH %Z FROM BUSSMANN SPD. CONTRACTOR SHALL CONTACT UTILITY AND VERIFY I-SC AVAILABLE AT SECONDARY OF TRANSFORMER. CONTACT ENGINEER FOR RE-CALCULATION IF LARGER THAN CALCULATED.

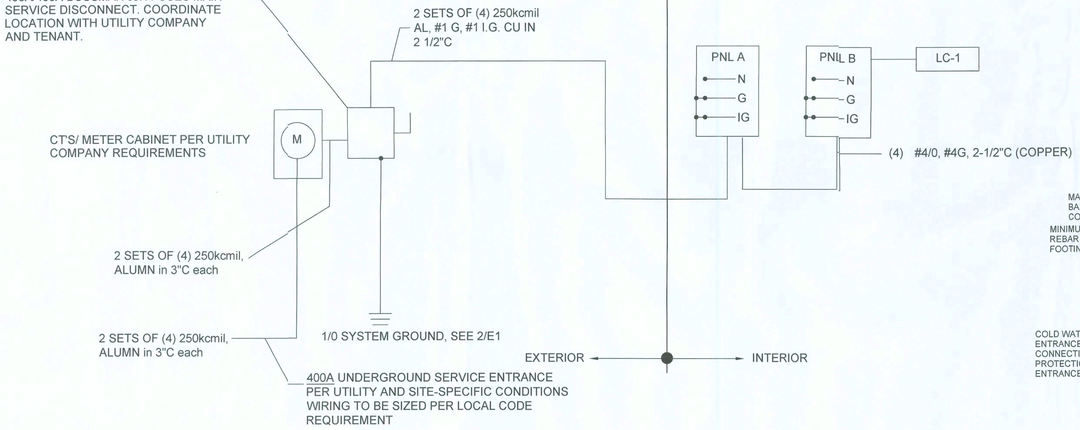
## MOTOR LOAD FAULT CALCULATION

| | | |
|---|---|---|
| STARTING I-SC: | 39 KA | CALCULATION |
| MOTOR LOAD (KVA): | 36KVA | I-SC(ML)=I-ML*6= 606A |
| MOTOR LOAD (A): | 101A | I-SC=I-SC+I-SC(ML)= 40 KA |

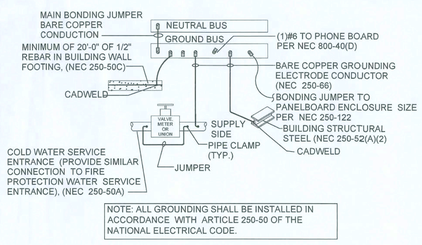
## FEEDER FAULT CALCULATION

| | | |
|---|---|---|
| STARTING I-SC: | 40 KA | IMPEDANCE BASED ON 3 SINGLE CONDUCTORS IN NON-MAGNETIC CONDUIT |
| VOLTAGE (L-L): | 208V | |
| PHASE (PH): | 3 | |
| FEEDER SIZE: | 250 | CALCULATION |
| FEEDER MATERIAL: | AL | *f=[SQRT(PHASE)*L*IS-C]/ [Q*C*V-LL] |
| PARALLEL SETS (Q): | 2 | |
| FEEDER LENGTH (L): | 20FT | f= 0.256 |
| FEET PER OHMS (C): | 12,862 FT/OHMS | M=1/(1+f)= 0.796 |
| | | I-SC=I-SC*M= 31 KA |

*f FOR SINGLE PHASE SYSTEMS, FEEDER LENGTH IS DOUBLED AND VOLTAGE IS LINE-NEUTRAL (OR V*LL/2)




1 E5.1 400A SERVICE
SCALE: N.T.S.




NOTE: ALL GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH ARTICLE 250-50 OF THE NATIONAL ELECTRICAL CODE.

2 E5.1 GROUNDING DETAIL
SCALE: N.T.S.

THESE PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING CODES & REGULATIONS:

- 2014 NFPA 70 (NATIONAL ELECTRICAL CODE)
- 2017 FLORIDA FIRE PREVENTION CODE (6TH ED.)
- 2013 NFPA 72
- 2015 NFPA 101 (LIFE SAFETY CODE
- 6TH EDITION OF THE FLORIDA BUILDING CODE (2017)
- 6TH EDITION OF FBC ENERGY CONSERVATION CODE (2017)

## VOLTAGE DROP

THIS PROJECT IS IN COMPLIANCE WITH 2014 FBC-ENERGY CONSERVATION C405.7.3 & NEC 210.19 WITH REGARDS TO VOLTAGE DROP FOR BOTH FEEDER/CUSTOMER-OWNED SERVICE CONDUCTORS (2%) & BRANCH CIRCUIT CONDUCTORS (3%).

SEAL DATE: 5/6/19

NAWWAF A. AHMAD LICENSE No. 56095 STATE OF FLORIDA PROFESSIONAL ENGINEER

NAWWAF AHMAD, P.E.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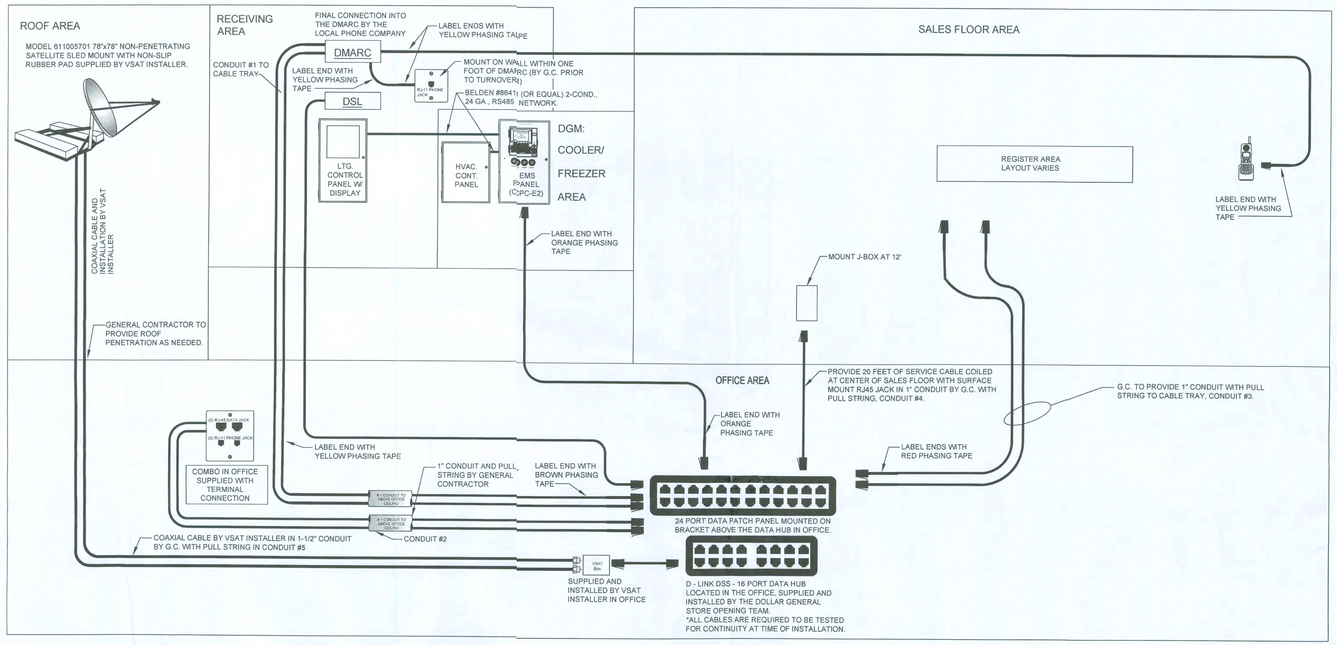
DOLLAR GENERAL®

2144 SW BIRLEY AVE.
LAKE CITY, FL 32024
STORE # 19930
2018 PROTOTYPE - PLAN '9100C' - 9,100 SQ. FT.

DRAWING DATE / DRAWN BY: 4/5/19 - NSA
REVISION DATE / REVISED BY:
PROJECT NUMBER: 4000.170
DRAWING TITLE: PANEL SCHEDULE 3-PH
SHEET NO.: E3.1




| CONDUIT NUMBER | START | END | SIZE | CONDUIT RESPONSIBILITY | *CABLING RESPONSIBILITY |
|---|---|---|---|---|---|
| 1 | RECEIVING AREA | CABLE TRAY | 1-1/2" | GENERAL CONTRACTOR | LOW VOLTAGE VENDOR |
| 2 | OFFICE VOICE / DATA PORT | OFFICE (HUB) | 1" | GENERAL CONTRACTOR | LOW VOLTAGE VENDOR |
| 3 | OFFICE (HUB) | CABLE TRAY | 1" | GENERAL CONTRACTOR | LOW VOLTAGE VENDOR |
| 4 | CENTER OF SALES FLOOR CONNECTION | OFFICE (HUB) | 1" | GENERAL CONTRACTOR | LOW VOLTAGE VENDOR |
| 5 | SATELITE | OFFICE (HUB) | 1-1/2" | GENERAL CONTRACTOR | LOW VOLTAGE VENDOR |

*UNLESS OTHERWISE NOTED, ALL RESPONSIBILITIES SHOULD FOLLOW THIS CHART.

ALL CABLES AT THE OFFICE WILL NEED TO BE WRAPPED IN PHASING TAPE CONSISTENT WITH THE FOLLOWING COLORS:

| | |
|---|---|
| RED TAPE | CASH REGISTER DATA |
| BLUE TAPE | ELEC. EMS DATA |
| BROWN TAPE | OFFICE DATA |
| ORANGE TAPE | COOLER/FREEZER EMS DATA |
| YELLOW TAPE | PHONE CABLE TO DMARC |

Wire Symbols

- RJ-45: 24 GA., 4 TWISTED PAIR, CATEGORY-FIVE (CAT 5) DATA CABLE WITH MODULAR RJ-45 END.
- RJ-11: 24 GA., 4 TWISTED PAIR, CATEGORY-FIVE (CAT 5) DATA CABLE WITH MODULAR RJ-11 END. USE ONLY THE BLUE & WHITE AND SOLID BLUE WIRES. ALL OTHER WIRES TO BE FOLDED BACK AND TAPED TO THE CABLE.
- COAXIAL CABLE WITH RF CONNECTOR

NOTES:

A. WHEN LOW VOLTAGE PERMITS ARE REQUIRED, THE GC/DEVELOPER/LLD IS RESPONSIBLE FOR OBTAINING ALL LOW VOLTAGE PERMITS.

B. LOW VOLTAGE VENDOR RESPONSIBLE FOR ALL WIRE MANAGEMENT IN CABLE TRAY.

C. GC TO PROVIDE AND INSTALL CABLE TRAY AND ALL CONDUIT.

SEAL DATE: 5/6/19

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LAKE CITY, FL 32024

STORE # 19930

2018 PROTOTYPE - PLAN 9100C' - 9,100 SQ. FT.

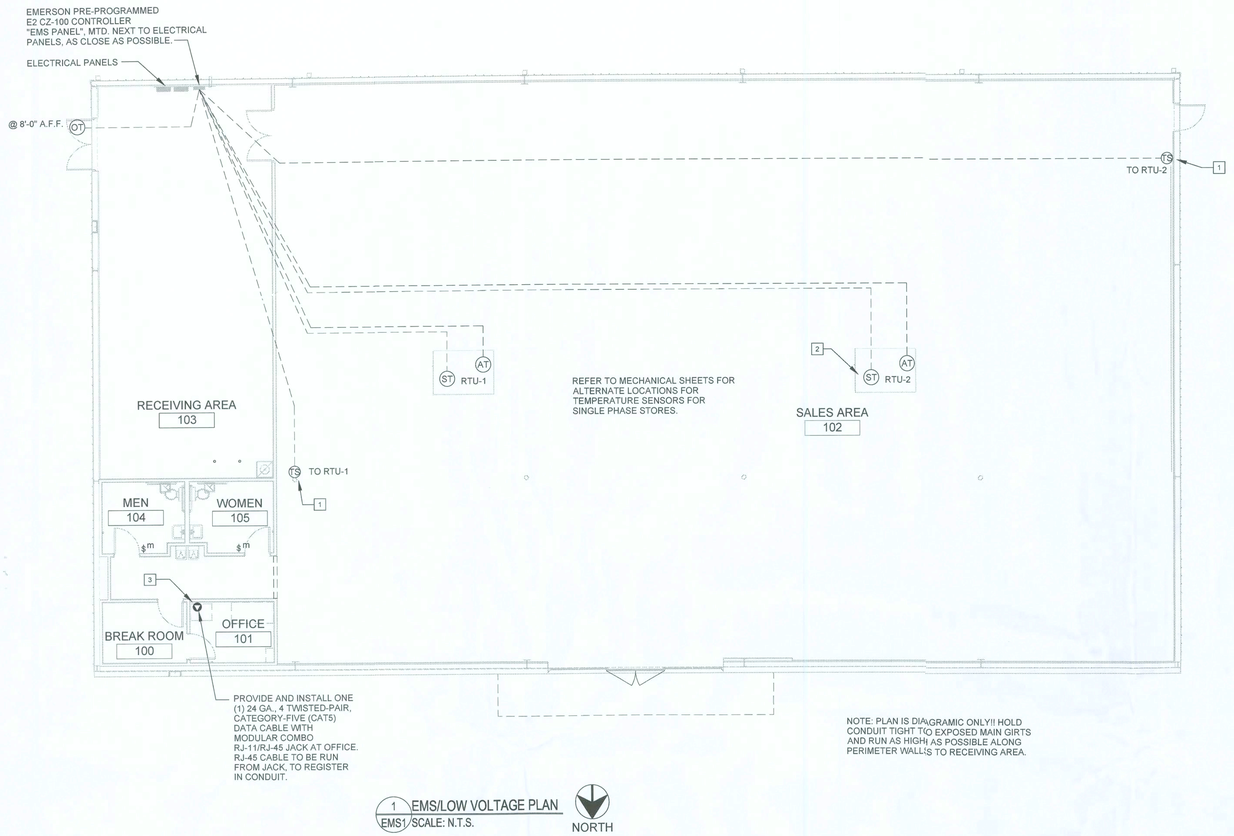
DRAWING DATE: / DRAWN BY:
4/5/19 - NSA

REVISION DATE: / REVISED BY:

PROJECT NUMBER:
4000.170

DRAWING TITLE:
DATA ROUTING & CCTV

SHEET NO.
E4




1 EMS1 EMS/LOW VOLTAGE PLAN
SCALE: N.T.S.

NORTH

## GENERAL NOTES

A. REFER TO E1 FOR GENERAL CONTRACTOR RESPONSIBILITIES. E.C. MAY USE CABLETRAY FOR LOW VOLTAGE CABLES, SEE 2/E2.

B. RUN CONDUIT FROM SENSORS TO BOTTOM OF STRUCTURE.

C. REFRIGERATION UNITS TO BE CONNECTED TO EMS PANEL BY DOLLAR GENERAL REFRIGERATION CONTRACTOR.

## SENSOR PLAN KEYED NOTES

1. ALWAYS INSTALL THESE SENSORS AT 8'-0" A.F.F. THE EXACT MOUNTING LOCATION OF THE HVAC SENSORS "TS" MAY VARY DEPENDING ON THE STORE LAYOUT & DUCT CONFIGURATION. REFER TO SITE SPECIFIC MECHANICAL DRAWINGS FOR HVAC ZONED SENSOR MOUNTING LOCATIONS. IF SENSORS ARE MOUNTED ON EXTERIOR WALLS DUE TO DUCT CONFIGURATION, THEY ARE THEN TO BE INSULATED TO PREVENT AIR INFILTRATION. IF ADDITIONAL HVAC UNITS ARE USED, ADD ADDITIONAL TEMPERATURE SENSORS "TS".
2. ADD ADDITIONAL HVAC UNIT WHEN REQUIRED.
3. PHONE LINE #1 - TWO RJ-11 PORTS. ONE(1) LOCATED IN OFFICE W/RJ-45 DATA JACK COMBO AND ONE (1) AT REGISTER. 24 GA. CAT 5, 4-PAIR TWISTED WIRE ONLY. USE BLUE AND BLUE & WHITE WIRES. HOOK TO LINE #1 TERMINAL IN RJ-11 JACK EACH PHONE JACK TO HAVE DEDICATED, SEPARATE HOME RUN TO DMARC. LABEL AS "PHONE" AT THE DESTINATION AND AT DMARC. PHONE COMPANY PROVIDES FINAL HOOK UP TO DMARC ONLY. PHONE LINE #2 - RJ-11 PHONE JACK SUPPLIED AND WIRED BY CONTRACTOR.

## DEVICE SCHEDULE

| SYMB | DESCRIPTION | CABLE TYPE | SUPPLIER | INSTALLER | NOTES |
|---|---|---|---|---|---|
| AT | AHU TERMINAL STRIP | 8C T-STAT CABLE | EMS SUPPLIER | GENERAL CONTRACTOR | (1) PER HVAC UNIT |
| OT | OUTDOOR AIR TEMP MOUNTED 8'-0" A.F.F. | BELDEN 8761 OR EQUIVALENT (22AWG, 2C, STRANDED, SHIELDED) | EMS SUPPLIER | GENERAL CONTRACTOR | (1) PER RECEIVING ENTRY |
| ST | SUPPLY TEMP (501-1121) IN SUPPLY DUCT | BELDEN 8761 OR EQUIVALENT (22AWG, 2C, STRANDED, SHIELDED) | EMS SUPPLIER | GENERAL CONTRACTOR | (1) PER HVAC UNIT |
| TS | TEMP SPACE SENSOR (809-6590) 8'-0" A.F.F. | BELDEN 8761 OR EQUIVALENT (22AWG, 2C, STRANDED, SHIELDED) | EMS SUPPLIER | GENERAL CONTRACTOR | (1) PER HVAC UNIT ZONE |
| ♻ | RJ-11/RJ-45 DATA JACK PHONE COMBO | CAT-5 DATA CABLE (24AWG, 4 TWISTED PAIR) | GENERAL CONTRACTOR | GENERAL CONTRACTOR | (1) AT OFFICE COMPUTER CART |
| $m | MOTION SENSOR SWITCH | LEVITON EZ-FIND ODS-10-IDW | GENERAL CONTRACTOR | GENERAL CONTRACTOR | (1) PER RESTROOM<br>(1) PER BREAK ROOM<br>(1) PER OFFICE |

FOR REFERENCE ONLY

SEAL DATE: 5/6/19

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2018 PROTOTYPE - PLAN '9100C' - 9,100 SQ. FT.

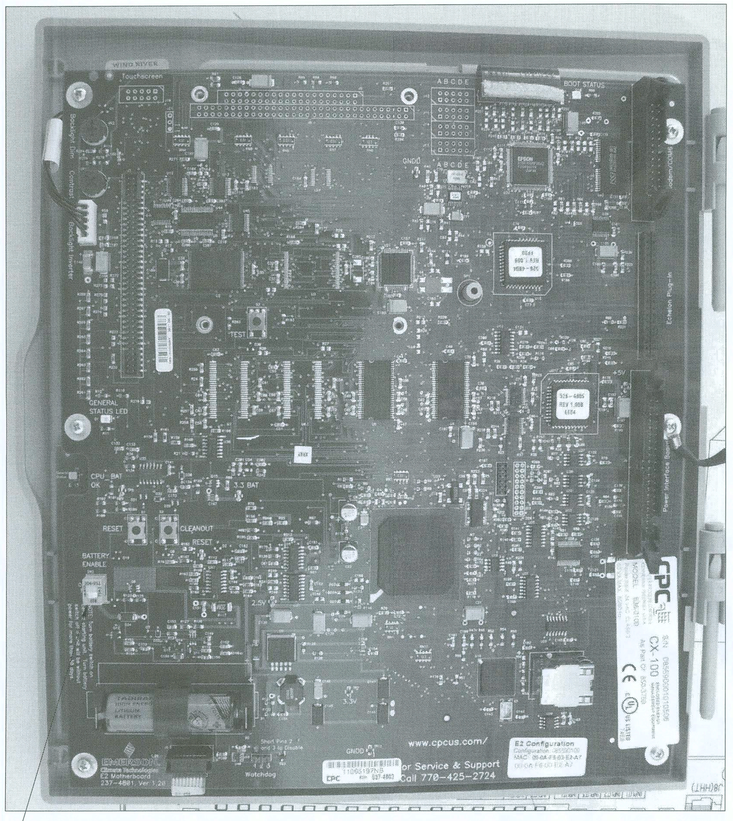
DRAWING DATE: / DRAWN BY:
4/5/19 - NSA

REVISION DATE: / REVISED BY:

PROJECT NUMBER:
4000.170

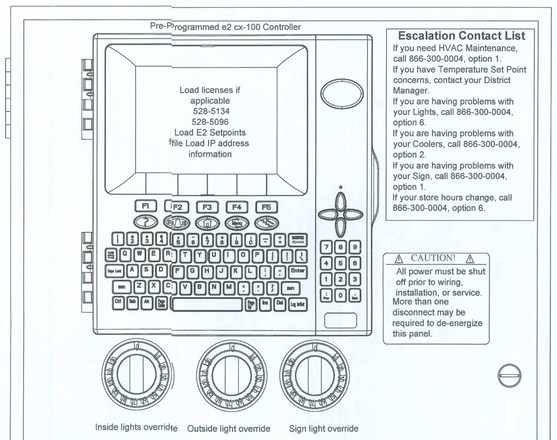
DRAWING TITLE:
EMS/LOW VOLTAGE

SHEET NO.
EMS1




GENERAL CONTRACTOR TO ENSURE THAT THE BATTERY ENABLE IS SWITCHED TO THE "ON" POSITION

1 CPU TERMINAL DIAGRAM
EMS2 SCALE: N.T.S.




**Escalation Contact List**

If you need HVAC Maintenance, call 866-300-0004, option 1.
If you have Temperature Set Point concerns, contact your District Manager.
If you are having problems with your Lights, call 866-300-0004, option 6.
If you are having problems with your Coolers, call 866-300-0004, option 2.
If you are having problems with your Sign, call 866-300-0004, option 1.
If your store hours change, call 866-300-0004, option 6.

⚠ CAUTION! ⚠
All power must be shut off prior to wiring, installation, or service. More than one disconnect may be required to de-energize this panel.

**Verifying the Time and Date**

From the Home screen.
1. The Date is in the upper left corner of the Home screen.
2. The Time is in the upper right corner of the Home screen.

**HVAC Control Status**

* Press the Home screen button.
* Select F1 AHU.
* Using the arrow keys, highlight the appropriated HVAC Unit, select enter.
* From the screen you can view:
  i. Ctrl Temp (Control Temp - The sales floor temp).
  ii. Values in [ ] represent the set point we are trying to maintain.
  iii. Space Temp (Temperature at problem on Sales Floor).
  iv. Supply Temp (Air Temp leaving AHU).
  v. Status of Fan/Heat/Cools
* When complete, select the Home button.

**Lighting Status**

* The status of Store Lights can be viewed in the bottom left corner of the Home page, or by the following:
  * Press the Home screen button.
  * Select F2 Lighting.
  * Highlight the appropriate Lighting Control, then select enter.
  * When complete, select the Home button.

**Refrigerated Case Status**

* Case Temperature can be viewed from the Home screen.

To view a graph of the case temperature:
  i. Highlight the Temp value, and select enter.
  ii. Select 1 for graph.

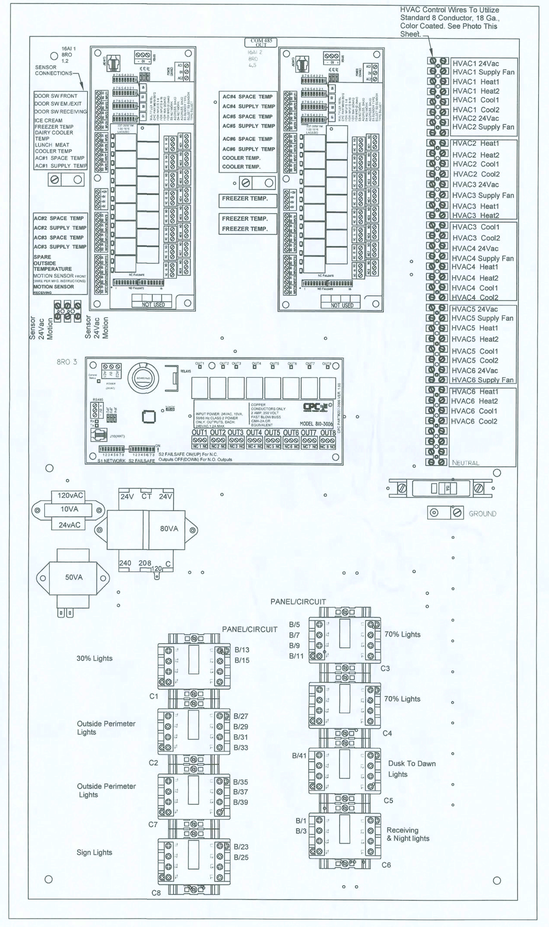
To zoom select F5 Zoom-In.
(Press F5 Zoom-In as many times as necessary, get to the desired scale/range).
(Use the left and right arrow keys to move to the time/date range desired).
* When complete, select the Home button.

**Alarm Status**

From the Home screen, select Alarm button.
1. Date: The date the alarm occured.
2. Time: The time the alarm occured.
3. State: Notice, Alarm or Fail.
   * Notices are general warnings that notify a user of minor errors.
   * Alarms are warnings about important system conditions that need immediate attention.
   * Fails are high priority conditions, warning the user of a controller or device failure.
4. Property on Board and Point: The item that has generated the alarm.
5. Message: The description of the notice, alarm or fail.
   a. Using the up or down arrow keys, highlight the appropriate alarm and select F4 Expd. Info.
      i. Expd. Info: Expanded information will give the unit & detailed status on the alarm.
      ii. When finished viewing detailed status, select enter.
* When complete, select the Home button.

2 PROGRAMMER CONTROLLER
EMS2 SCALE: N.T.S.

NOTE:
EMS SYSTEM SHOULD BE TESTED FOR HVAC OPERATION, INTERIOR LIGHTING, EXTERIOR LIGHTING AND SIGN LIGHTING PRIOR TO CONTRACTOR'S ELECTRICAL POSSESSION DATE. USE OUTSIDE LIGHT AND SIGN LIGHT OVERRIDE FOR EXTERIOR TESTING.




3 CONTROL WIRING DIAGRAM
EMS2 SCALE: N.T.S.

| TESTING NOTES |
|---|
| TESTING OF HVAC UNITS THRU EMS PANEL IS ACCOMPLISHED BY SIMPLY WARMING UP OR COOLING DOWN A SPACE TEMPERATURE SENSOR (USING A BLOW DRYER OR ELECTRONIC EQUIPMENT DUSTER AEROSOL) AND WATCH THE FAN, HEAT AND COOL STAGES CYCLE ON AND OFF. THIS REQUIRES TWO PEOPLE AT ALL TIMES...ONE TO WATCH THE SCREEN AND THE OTHER TO WATCH OPERATION OF THE AHU. WHEN COMPLETE, PRESS THE HOME BUTTON TO RETURN TO THE MAIN SCREEN. |

**EMS GENERAL NOTES**

1. EMS SUPPLIER NOTE: CUSTOMIZED DOLLAR GENERAL EMS PANEL REQUIRES STORE #, CITY, STATE, ZIP CODE & CITY, OF HVAC UNITS OF THE INSTALL SITE WHEN ORDERING. EMS SYSTEMS INSTALLATION GUIDE WITH PHOTOS IS AVAILABLE ON NATIONAL ACCOUNT WEBSITE. ALL QUESTIONS PERTAINING TO THE EMS PANEL, SYSTEM INSTALLATION & SETUP SHOULD BE DIRECTED TO EMERSON'S DOLLAR GENERAL SUPPORT TEAM AT 770-425-2724.
2. ALL SIGN & LIGHTING CIRCUITS MUST BE FED THROUGH THE DESIGNATED CONTACTORS AS NOTED ON THIS PAGE.
3. ALL LOW VOLTAGE HVAC & DOOR SENSORS MUST BE CONNECTED TO THE PROPER TERMINAL. 24 GA. SHIELDED (SHIELD MUST BE GROUNDED) CABLE, BELDEN #8641, 2 CONDUCTOR WIRE OR IT'S EQUIVALENT IS REQUIRED.
4. COOLER & FREEZER HOME RUNS WILL BE TERMINATED AT ALL POINTS BY DOLLAR GENERAL REFRIGERATION DEPARTMENT.

FOR REFERENCE ONLY

SEAL DATE: 5/6/19

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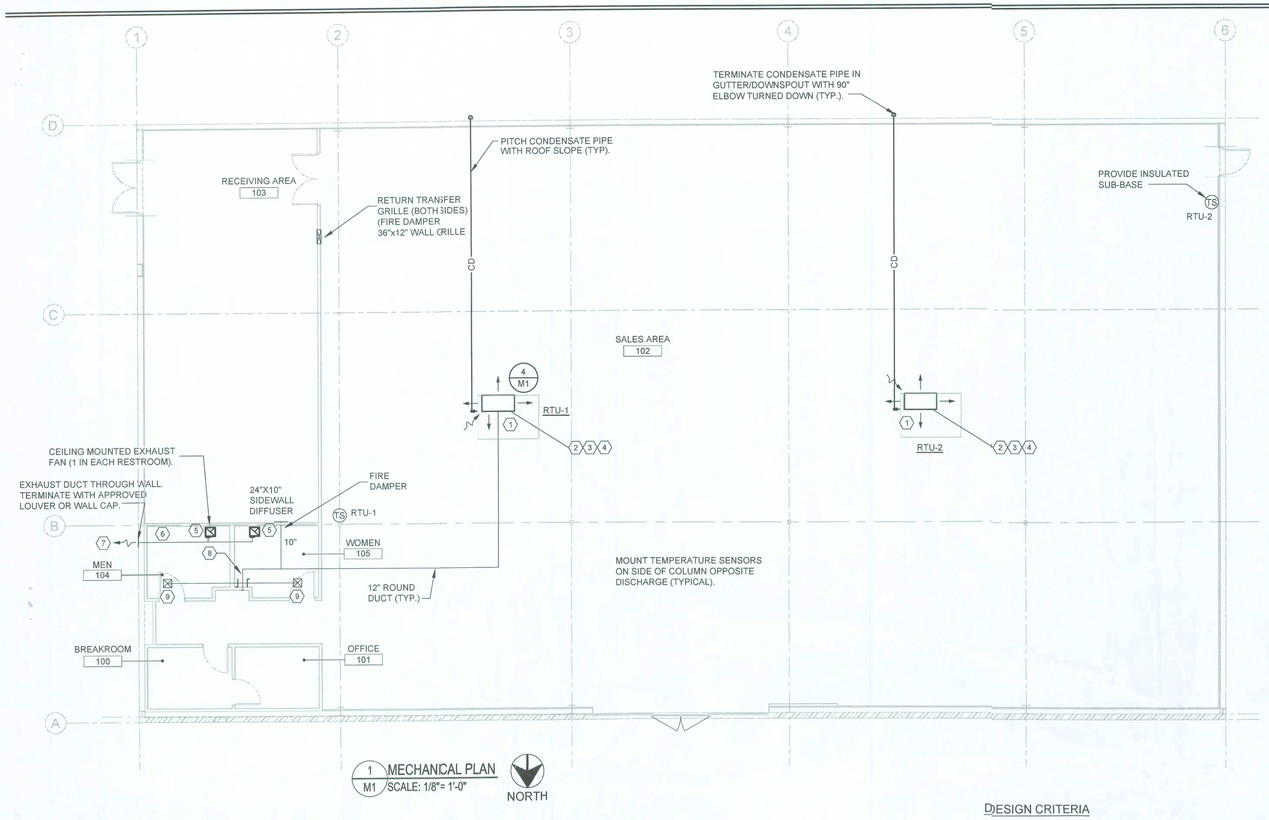
STORE # 19920
2018 PROTOTYPE - PLAN 91000 - 9,100 SQ. FT.

DRAWING DATE: / DRAWN BY:
4/5/19 - NSA
REVISION DATE: / REVISED BY:
PROJECT NUMBER:
4000.170
DRAWING TITLE:
EMS PANEL CONTROLS
SHEET NO.
EMS2




1 M1 MECHANICAL PLAN
SCALE: 1/8"= 1'-0"

NOTE:
ALL WORK TO COMPLY WITH THE 6TH EDITION OF THE 2017 FLORIDA BUILDING CODE MECHANICA_

## DESIGN CRITERIA

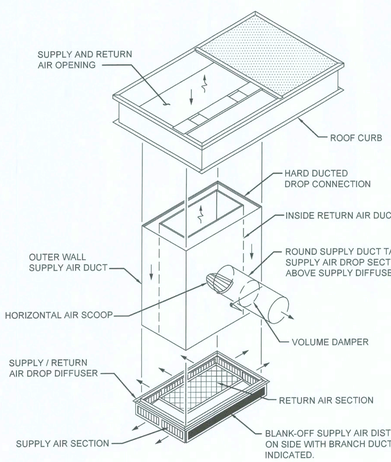
BUILDING ENVELOPE MINIMUM U-FACTORS:

| | |
|---|---|
| STANDING STEAM ROOF W/ INSULATION | 0.065 |
| METAL BUILDING EXTERIOR WALLS W/ INSULATION | 0.113 |
| METAL FRAMED EXTERIOR WALL W/ 8" C.M.U. | 0.125 |
| STOREFRONT METAL FRAMED GLAZING SYSTEM | 0.80 |
| | 0.40 (S.H.G.C.) |
| HOLLOW CORE METAL DOORS | 0.70 |

| ZONE | PEOPLE | ELECT. LOAD | VENTILATION (OUTDOOR AIR) |
|---|---|---|---|
| SALES AREA | 90 | 5940 W | 0.12 CFM/SF |
| RECEIVING AREA | 2 | 260 W | 0.12 CFM/SF |
| OFFICE | 1 | 32W | 0.06 CFM/SF |
| BREAKROOM | 1 | 32W | 0.06 CFM/SF |
| MEN'S RESTROOM | - | 32W | 50 CFM CONTINUOUS (OR 70 CFM INTERMITTENT) EXHAUST. |
| WOMEN'S RESTROOM | - | 32W | 50 CFM CONTINUOUS (OR 70 CFM INTERMITTENT) EXHAUST. |

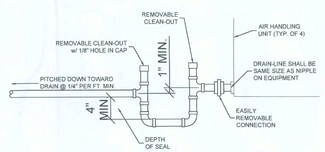
THESE VALUES ARE SUBJECT TO REVIEW AND REVISION, AND SHOULD BE MODIFIED AS REQUIRED FOR EACH PROJECT. IT IS THE RESPONSIBILITY OF THE DESIGN PROFESSIONAL TO CALCULATE THE HEAT GAINS/LOSSES FOR EACH PROJECT AND REVIEW EQUIPMENT SIZES.

SPECIFY SEISMIC RESTRAINT SYSTEMS FOR ALL PIPING, DUCTWORK AND EQUIPMENT AS REQUIRED, IN ACCORDANCE WITH APPLICABLE CODES.

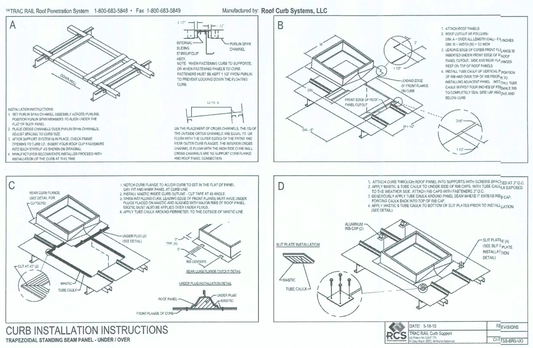



NOTE:
INSTALL HORIZONTAL AIR SCOOP HAVING A CONTINUOUSLY CURVED CROSS SECTION AND BALANCING DAMPER AT DUCT CONNECTION TO DIVERT SUPPLY AIF INTO THE CONNECTED DUCTWORK. LENGTH OF SCOOP SHALL BE LIMITED TO THE WIDTH OF THE SUPPLY AIR ANNULAR SPACE.

4 M1 TYPICAL SUPPLY BRANCH CONNECTION
SCALE: N.T.S.




2 M1 CONDENSATE TRAP
SCALE: N.T.S.




CURB INSTALLATION INSTRUCTIONS
TRAPEZOIDAL STANDING SEAM PANEL - UNDER / OVER

5 M1 ROOF CURB SYSTEMS, LLC
SCALE: N.T.S.

## AIR CONDITIONING SCHEDULE

| | |
|---|---|
| MARK | RTU - 1, 2 |
| AREA | RETAIL SPACE |
| BTUH SENSIBLE | 103,500 |
| BTUH TOTAL | 150,000 (12.5-TONS) |
| ENTERING DB / WB | 80 / 67 |
| OUTSIDE TEMP. | 95° F |
| SUPPLY CFM | 5,000 |
| EXTERNAL SP. | 0.6 |
| OSA CFM | REFER TO PLANS |
| FAN H.P. | 3.0 |
| HEAT Kw | 30 |
| VOLTAGE / PHASE | 208 / 3ϕ |
| MCA | 93 |
| FUSE SIZE | 100 |
| SEER (EER) | (12) |
| REFRIGERANT | R-410A |
| MODEL NO. | LCH122U4EJ1Y |
| MANUFACTURER | LENNOX |
| UNIT WEIGHT | 2,500 lbs. |

NOTES:
1. PROVIDE FILTER RACK w/2" 30-35% FILTERS
2. PROVIDE SOLID-STATE HEAD PRESSURE CONTROL ON CONDENSER FAN FOR LOW AMBIENT CONTROL
3. PROVIDE 5-MINUTE SOLID STATE DELAY CONTROL TO PREVENT COMPRESSOR FROM SHORT CYCLING
4. INSTALL UNIT PER MANUFACTURER'S SPECIFICATIONS AND GUIDELINES
5. PROVIDE UNIT WITH ELECTRIC HEAT AND SINGLE POINT CONNECTION
6. UNIT DISCONNECT AND CONVENIENCE OUTLET PROVIDED BY DIV-16
7. PROVIDE FACTORY MOUNTED OUTSIDE AIR HOOD WITH AUTOMATIC DAMPER
8. PROVIDE MICROMETL CONCENTRIC DIFFUSER KIT #CNKT-0550-18HD FOR YORK 4-6TON w/FACTORY INSTALLED TRANSITION ADAPTER AT RTU. (COORDINATE WITH LIGHT FIXTURES)

## SYMBOL LEGEND

- = EXHAUST FAN (NUTONE OR EQUIV.)
- = TRANSFER GRILL (HART & COOLEY TGF10x10 OR EQUIV.)
- TS = TEMPERATURE SENSOR MTD. @ 8'-0" A.F.F. (EMS1)
- = RETURN/EXHAUST AIR-FLOW
- = SUPPLY AIR-FLOW
- SD = SMOKE DETECTOR =(TYCO-SIMPLEX 4098-9686 OR EQUIV.)
- = LENNOX
- = SUPPLY AIR
- = RETURN AIR
- = VOLUME DAMPER

| | |
|---|---|
| 1 | HVAC1 24Vac (Red) |
| 2 | HVAC1 Supply Fan (Green) |
| 3 | HVAC1 Heat 1 (White) |
| 4 | HVAC1 Heat 2 (Brown) |
| 5 | HVAC1 Cool 1 (Yellow) |
| 6 | HVAC1 Cool 2 (Blue) |
| 7 | HVAC2 24Vac (Red) |
| 8 | HVAC2 Supply Fan (Green) |

3 M1 EMS HVAC WIRING DETAIL
SCALE: N.T.S.

## HVAC NOTES AND SPECIFICATIONS:

1. CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR EQUIPMENT FURNISHED.
2. COORDINATE DIFFUSERS, FANS AND REGISTER LOCATIONS WITH ELECTRICAL LIGHTING LAYOUT AND ARCHITECTURAL REFLECTED CEILING PLANS.
3. ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED, OFFSETS IN DUCTS, PIPING AND TRANSITIONS AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST.
4. SEAL AND MAKE WATER-TIGHT ALL OPENINGS THROUGH ROOF AND EXTERIOR WALLS.
5. ALL SEAMS AND CONNECTIONS IN DUCTWORK, DUCTBOARD AND INSULATION WRAP SHALL BE SEALED WITH ONE-LAYER OF FAB AND MASTIC.
6. FURNISH AND INSTALL ALL NECESSARY ACCESSORIES, HARDWARE AND APPURTENANCES AS REQUIRED FOR A COMPLETE FUNCTIONAL SYSTEM
7. ALL DUCT REGISTERS, GRILLS AND DIFFUSERS SHALL HAVE A MIN. FLAME SPREAD RATING OF NOT OVER 25 AND A MIN. SMOKE DEVELOPED RATING OF NOT OVER 50 AND SHALL BE IN COMPLIANCE WITH SECTIONS 603.15 AND 603.15.1.
8. ALL UNITS REQUIRE ECONOMIZERS WITH BAROMETRIC RELIEF OR MOTORIZED DAMPERS WITH DUCT MOUNTED BAROMETRIC RELIEF. PROVIDE AS REQUIRED.
9. ALL UNITS REQUIRE DUCT MOUNTED SMOKE DETECTORS. VERIFY CURRENT LOCAL REQUIREMENTS FOR MOUNTING LOCATION OF SMOKE DETECTORS.
10. ALL HVAC EQUIPMENT SHALL BE INSTALLED IN A SUCH A WAY AS TO REDUCE VIBRATION TRANSMISSION TO STRUCTURAL MEMBERS.
11. COORDINATE HVAC SENSOR LOCATIONS WITH SHEET EMS1.
12. POWER TO HVAC UNITS LISTED IN PREFERENCE ORDER.
13. PROVIDE EXHAUST FAN FOR RESTROOMS, INTERLOCK WITH RESTROOM LIGHTS, VENT THROUGH SIDE-WALL (NOT ROOF).
14. TESTING OF HVAC UNITS THROUGH EMS PANEL IS ACCOMPLISHED BY WARMING UP OR COOLING DOWN A SPACE TEMPERATURE SENSOR AND WATCH THE FAN, HEAT AND COOL STAGES CYCLE ON AND OFF. THIS REQUIRES TWO PEOPLE AT ALL TIMES...ONE TO WATCH THE SCREEN AND THE OTHER TO WATCH THE OPERATION OF THE AHU. WHEN COMPLETE, PRESS THE 'HOME' BUTTON TO RETURN TO THE MAIN SCREEN.
15. ALL MECHANICAL WORK SHALL CONFORM TO THE 2017 FBCM.
16. ALL AIR DISTRIBUTION COMPONENTS SHALL BE INSTALLED IN ACCORDANCE TO SECTION 501 OF THE FBCEC.

## MECHANICAL KEYED NOTES:

1. RTU-1 THRU RTU-2. PROVIDE AND INSTALL LENNOX PACKAGE ROOF-TOP UNIT. SEE SCHEDULE FOR UNIT INFORMATION.
2. SMOKE DETECTOR TO BE INSTALLED IN SUPPLY AIR DUCTWORK FOR ROOF-TOP UNIT. FIELD COORDINATE WITH FIRE ALARM SYSTEM USED AND LOCAL CODES.
3. INSTALL MICROTEL CONCENTRIC DIFFUSER KIT# CNKT-1018-511A FOR LENNOX 12.5 TON UNITS. WITH FACTORY INSTALLED TRANSITION ADAPTER AT RTU. COORDINATE WITH LIGHT FIXTURES.
4. SUPPLY REGISTER MOUNTED ON DUCTWORK. BALANCE AT 5,000 cfm EACH.
5. EXHAUST FAN TO BE MOUNTED ON CEILING w/DUCTWORK ROUTED TO SIDEWALL. PROVIDE STORM PROOF WALL CAP w/BACKDRAFT DAMPER (TYP.).
6. 8"Ø EXHAUST DUCT TO WALL CAP.
7. WALL CAP w/BACKDRAFT DAMPER.
8. 8"Ø DUCT (w/DAMPERS) SPLIT TO TWO 4"Ø DUCTS.
9. SUPPLY GRILL (w/DAMPER) (HART & COOLEY A504 12x12 OR EQUIV.)

## SMOKE DETECTOR NOTES:

1. THE DUCT SMOKE DETECTORS SHALL BE INSTALLED TO STOP THE FAN IN THE HVAC DUCT SYSTEM OVER 2,000cfm PER NFPA 90A:6.4.2(1)
2. THE ACTUATION OF A DUCT SMOKE DETECTOR SHALL ACTIVATE A VISIBLE & AUDIBLE SUPERVISORY SIGNAL AT A CONSTANTLY ATTENDED LOCATION
3. SMOKE DETECTOR TROUBLE CONDITION SHALL BE INDICATED VISUALLY OR AUDIBLY IN A NORMALLY OCCUPIED AREA AND SHALL BE IDENTIFIED AS AIR DUCT DETECTOR TROUBLE.
4. PROVIDE A REMOTE ALARM INDICATOR/ANNUCIATOR IN ACCORDANCE WITH NFPA 72:6.10.2
5. DETECTOR SHALL BE TYCO-SIMPLEX 4098-9686 OR EQUIV. (COMPLYING WITH UL 268A)
6. SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH FBC 2017 6th EDITION OF MECHANICAL CODE, SECTION 606.

## EQUIPMENT LABEL SPECIFICATIONS:

1. ALL HVAC EQUIPMENT SHALL BE FURNISHED WITH BLACK LAMINATED PLASTIC LABEL w/WHITE ENGRAVED LETTERING AND FASTENED MECHANICALLY TO THE EQUIPMENT.
2. LABEL SHALL HAVE THE FOLLOWING INFORMATION w/1/2" LETTERING:
   EQUIPMENT #
   SUITE/SPACE #

## AIR BALANCE ANALYSIS

| MARK | SUPPLY AIR | OSA INTAKE | RETURN AIR | EXHAUST AIR | BLDG. PRESSURE |
|---|---|---|---|---|---|
| RTU-1 | 5,000 | 750 | 4,250 | - | 750 |
| RTU-2 | 5,000 | 750 | 4,250 | - | 750 |
| EF-1 | - | - | - | 110 | -110 |
| EF-2 | - | - | - | 110 | -110 |
| - | - | - | - | - | - |
| **TOTALS:** | **10,000** | **1,500** | **8,500** | **220** | **+1,280** |

## VENTILATION REQUIREMENTS

| ROOM NUMBER | ROOM NAME | NET AREA (SF) | PEOPLE PER 1,000 sq. ft. | NO. OF PEOPLE | CFM PER PERSON | CALCULATED OSA CFM | OSA PROVIDED CFM |
|---|---|---|---|---|---|---|---|
| 100 | | 83 | - | 1 | 20 | 20 | 20 |
| 101 | | 79 | - | 1 | 20 | 20 | 20 |
| 102 | | 5,922 | 15 | 198 | 7.5 | 855 | 1,030 |
| 103 | | 954 | - | 4 | 0.12 cfm/sq.ft. | 117.9 | 118 |
| 104 | | 50 | - | 1 | 20 | 20 | 20 |
| 105 | | 50 | - | 1 | 20 | 20 | 20 |
| | | | | | **TOTAL AMOUNT OF OSA PROVIDED:** | | **1,268** |

TABLE NOTES: BASED ON 2017 FBC MECHANICAL -6th EDITION CODE TABLE 403.3

## EXHAUST FAN SCHEDULE

| UNIT NO. | SERVICE | LOCATION | CFM | E.S.P. (IN W.G.) | ELECTRICAL DATA | | | R.P.M. HI/LO | SONES | DRIVE | MANUFACTURER MODEL NUMBER | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | WATTS | VOLTS | PHASE | | | | | |
| EF-1 | TOILET | CEILING | 110 | .125 | 156 | 120 | 1 | - | 4.0 | DIRECT | NUTONE #672R | 1, 2, 3, 4, 5 |
| EF-2 | TOILET | CEILING | 110 | .125 | 156 | 120 | 1 | - | 4.0 | DIRECT | NUTONE #672R | 1, 2, 3, 4, 5 |
| - | - | - | - | - | - | - | - | - | - | - | - | - |

REMARKS:
1. PROVIDE UNIT MOUNTED DISCONNECT
2. PROVIDE BACKDRAFT DAMPERS & WALL CAP
3. PROVIDE SPEED CONTROLLER
4. INTERLOCK FAN WITH LIGHT SWITCH
5. FANS TO BE U.L. LISTED & AMCA CERTIFIED.

## PROVIDE WITH EACH HVAC UNIT:

FACTORY INSTALLED:
1. THRU-THE-BASE CONNECTIONS.
2. LOW/HIGH HEAT (AS REQ'D.) - ONLY WITH GAS FIRED UNITS.
3. BELT DRIVE w/STANDARD STATIC OPTION.
4. COATED COILS (WHEN LOCATED WITHIN 10mi. FROM SHORELINE).

FIELD-INSTALLED:
5. DISCONNECT.
6. CONVENIENCE OUTLET.
7. DUCT SMOKE DETECTOR (TYCO-SIMPLEX MODEL# 4098-9686 OR EQUIV.)
8. ELECTRIC HEAT w/SINGLE-POINT CONNECTION KIT. - ONLY WITH ELECTRIC UNITS.
9. ECONOMIZER w/BAROMETRIC RELIEF (WHERE REQ'D.) / MOTORIZED O.A (OUTSIDE AIR) DAMPER w/DUCT MOUNTED BAROMETRIC PRESSURE RELIEF DAMPER AND HOOD KIT (WHEN ECONOMIZER IS NOT REQUIRED).
10. DUAL AIR ENTHALPY SENSOR (FOR UNITS w/ECONOMIZER).
11. TWO (2) ADDITIONAL SETS OF FILTERS (POST CONSTRUCTION/PRE-TEST AND TWO SETS TO OWNER FOR FUTURE USE).

SEAL DATE: 5/6/19

NAWWAF A. AHMAD LICENSE No. 56095 STATE OF FLORIDA PROFESSIONAL ENGINEER

NAWWAF AHMAD, P.E.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DOLLAR GENERAL®
2144 SW BIRLEY AVE.
LAKE CITY, FL 32024
STORE # 19930
2018 PROTOTYPE - PLAN '91000' - 9,100 SQ. FT.

DRAWING DATE: / DRAWN BY:
4/5/19 - NSA
REVISION DATE / REVISED BY:
PROJECT NUMBER:
4000.170
DRAWING TITLE:
MECHANICAL PLAN
SHEET NO.
M1

## Foreword

This publication details the installation requirements for dynamic application fire dampers as manufactured by Miami Tech Inc. Use of this manual for systems or products not manufactured or supplied by Miami Tech Inc shall not be applicable.

All products covered by this manual have been tested in accordance with UL555 and are authorized to bear the UL classification mark for fire dampers. Specific Fre Damper model numbers and their corresponding UL file numbers may be found in UL's Fire Resistance Directory. Miami Tech Inc. Fire Dampers have meet current UL requirements for Dynamic Curtain Style fire Dampers July 2002.

For specific fire damper location requirements, duct construction and connection or installation practices, refer to the following codes or standards:

**NFPA Publications:**

NFPA 90A - Standard for the Installation of Air-Conditioning and Ventilation Systems

**UL Publications:**

UL555 - Standard for Safety, Fire Dampers, Dynamic Dampers 7/2002.

**SMACNA Publications:**

Fire, Smoke and Radiation Damper Installation Guide for H/AC Systems Guide

HVAC Duct Construction Standards – Metal and Flexible

The Installation Instructions found within this manual have been specifically drawn and detailed to meet the requirements of UL555. Some jurisdictions may require additional or different installation methods; therefore, consult with the authority having jurisdiction for specific differences. For these cases, the requirements defined by the authority having jurisdiction will take precedence over the documents contained herein.

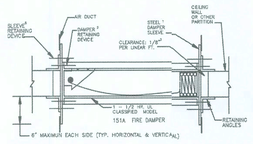




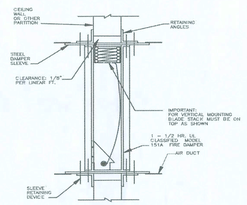
1/2003

## Model 151A • 1.5 Hour Single Section Dynamic Fire Damper

HORIZONTAL MOUNTING (Model 151A)




VERTICAL MOUNTING (Model 151A)




Fusible Link – 165°F

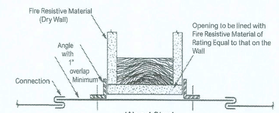
**NOTES:**

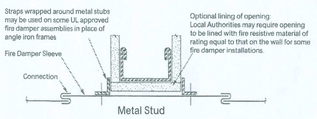
1. Sleeve shall be of the same or heavier gauge as the duct to which it is attached. Gauges shall conform to SMACNA or ASHRAE Duct Standards. When the following duct-sleeve connections are used, minimum gauge of the sleeve shall be 16 gauge on dampers not exceeding 24" wide x 24" high and 14 gauge on larger dampers: (a) angle reinforced standing seam, (b) angle reinforced pocket lock, (c) companion angle, or (d) metal fasteners spaced approximately 16" on center. Refer to the latest edition of UL 555 for connections which may be used in all systems.
2. Damper is secured to sleeve by the use of either 1/4" diameter steel nuts and bolts, No. 10 sheetmetal screws, 1/4" diameter steel rivets, or 1/2" long welds...all of which must be 6" on center and a maximum of 1 3/4" from the ends.
3. Fire dampers shall have clearance of 1/8" per linear foot on width and height. The unit (damper and sleeve) may rest on the bottom of the opening and need not be centered.
4. Retaining angles shall be a minimum of 1 1/2" x 1 1/2" x 16 gauge steel. Angles increase in size proportionally, so that there will be a minimum of 1" overlap on the partition, and angles must also cover corners of opening.
5. The sleeve is retained in the partition opening by the use of either 1/4" diameter steel nuts and bolts, No. 10 sheetmetal screws, 1/4" diameter steel pop rivets or 1/2" long welds...all of which must be 6" on center and no more than 2" from the ends. Devices are to attach angle to sleeve only.
6. This installation is for dampers which are to be installed in masonry walls only. See Installation for Alternate Framing Methods on page 5, for wood stud and metal stud partition.
7. Connecting ducts shall be terminated at the sleeve or transition collar where a draw-band type breakaway joint is used.
8. Maximum duct size of single section Model 151A unit is 24" wide x 24" high.





## Model 150 & 151 • Alternate Framing Methods




**NOTES:**

1. **Thickness and type of fire resistive material may vary with the jurisdiction. Specific framing requirements of openings should be provided in the architectural and structural drawings that are submitted for building permits.**
2. Sleeve shall be 14 gauge when the following duct-sleeve connection is: (a) angle reinforced standing seam, (b) angle reinforced pocket, (c) companion angles, (d) metal fasteners spaced approximately 16" on center. Refer to latest edition of UL 555 for connections with may be used in all systems. Gauges shall conform to SMACNA or ASHRAE Duct Standards.
3. Damper is secured to sleeve by the use of either 1/4" diameter steel nuts and bolts, No. 10 sheetmetal screws, 1/4" diameter steel rivets, or 1/2" long welds...all of which must be 6" on center and a maximum of 1 3/4" from the ends.
4. Fire dampers shall have clearance of 1/8" per linear foot on width and height. The unit (damper and sleeve) may rest on the bottom of the opening and need not be centered.
5. Retaining angles shall be a minimum of 1 1/2" x 1 1/2" x 16 gauge steel. Angles increase in size proportionally, so that there will be a minimum of 1" overlap on the partition, and angles must also cover corners of opening.
6. The sleeve is retained in the partition opening by the use of either 1/4" diameter steel nuts and bolts, No. 10 sheetmetal screws, 1/4" diameter steel pop rivets or 1/2" long welds...all of which must be 6" on center and no more than 2" from the ends. Devices are to attach angle to sleeve only.
7. For Horizontal Mount Dampers, the assembly is formed by using a full length 1/8" by 5" wide mullion plate with 1/4" diameter steel nuts and bolts, spaced 6" on center and a maximum of 3/4" from corners attaching frames to mullion plate.
8. For Vertical Mount Dampers, the damper frames are butted together and fastened with either No. 10 x 3/4" long sheetmetal screws, 1/4" diameter steel rivets, 1/4" diameter steel nuts and bolts, or 1/2" long welds all of which must be spaced at 4" on center and maximum of 3/4" from corners of dampers.
9. Connecting ducts shall be terminated at the sleeve.
10. Maximum duct size of single section vertical only unit is 24" wide x 24" high.



### METAL OR WOOD STUD FRAMING FOR FIRE DAMPERS IN WALLBOARD PARTITIONS

**NOTE:** Gypsum Wallboard screwed to all stud and runner flanges. 12" O.C. maximum, surrounding opening

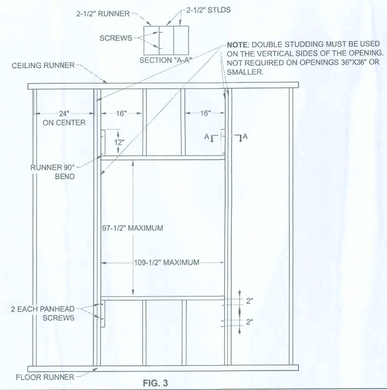



FIG. 3

| MODEL | MAXIMUM SIZE TABLE | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Single Section | | | | Multiple Section | | | |
| | Vertical | | Horizontal | | Vertical | | Horizontal | |
| | Max. Width | Max. Height | Max. Width | Max. Height | Max. Width | Max. Height | Max. Width | Max. Height |
| MFD | 60 | 60 | 40 | 40 | 120 | 120 | 80 | 40 |
| MFD3 | 48 | 48 | 40 | 40 | - | - | 80 | 40 |
| MDFD | 36 | 36 | 18 | 18 | - | - | 36 | 36 |
| MDFD3 | 36 | 36 | 18 | 18 | - | - | 36 | 36 |
| MFDS | 48 | 48 | 48 | 48 | - | - | - | - |
| MFDS3 | 48 | 48 | 48 | 48 | - | - | - | - |
| MDFDS | 36 | 36 | 18 | 18 | - | - | 36 | 36 |
| MDFDS3 | 36 | 36 | 18 | 18 | - | - | 36 | 36 |
| *MFDUS* | 48 | 48 | - | - | - | - | - | - |
| MFDUS3 | 48 | 48 | - | - | - | - | - | - |

**NOTE:** For maximum single section sizes refer to maximum size table. For openings larger than given for single section, multiple dampers are required. For openings larger than given in multiple sections a 12" wile brick or reinforced mullion must be provided between adjacent assemblies.

Life In U.S.A.



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SEAL DATE: 5/6/19

NAWWAF A. AHMAD LICENSE No. 56095 STATE OF FLORIDA PROFESSIONAL ENGINEER

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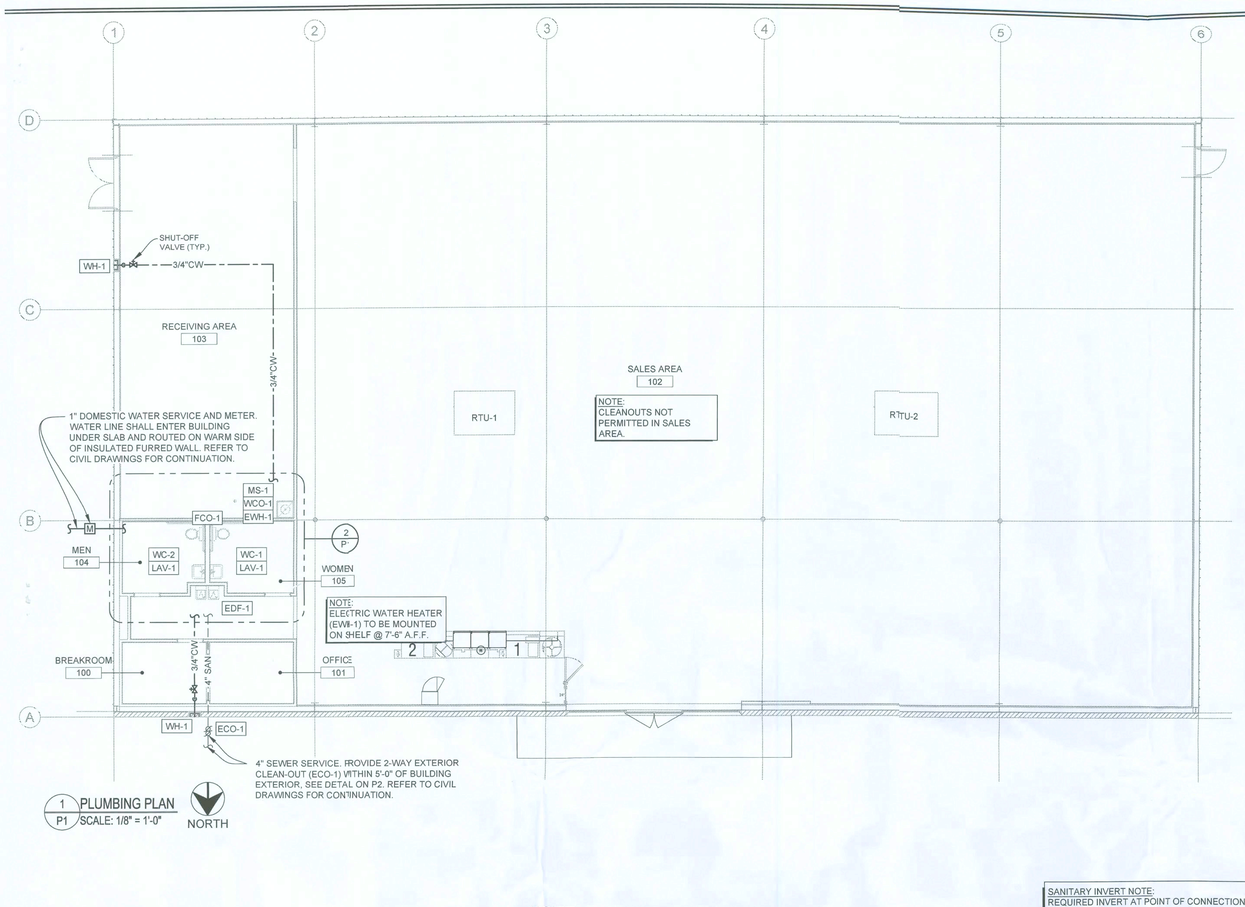
DOLLAR GENERAL®

2144 SW BIRLEY AVE.
LAKE CITY, FL 32024

STORE # 19930
2018 PROTOTYPE - PLAN 9100' - 9,100 SQ. FT.

DRAWING DATE / DRAWN BY: 4/5/19 - NSA
REVISION DATE / REVISED BY:
PROJECT NUMBER: 4000.170
DRAWING TITLE: FIRE DAMPER DETAILS
SHEET NO.: M2

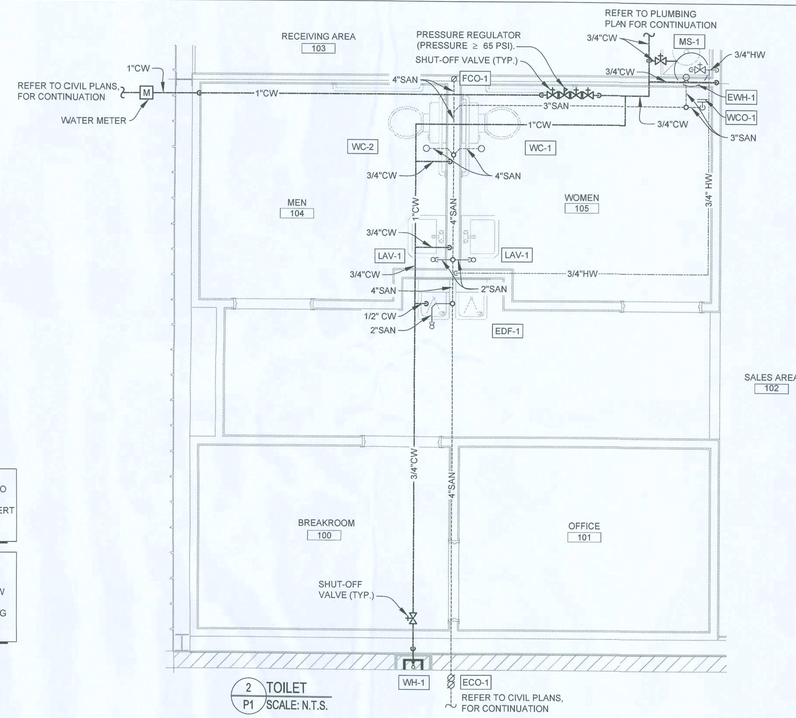



1 / P1 PLUMBING PLAN
SCALE: 1/8" = 1'-0"

NORTH

## GENERAL PLUMBING NOTES

1. PROVIDE ALL BACKING, SUPPORTS AND CARRIERS FOR FIXTURES.
2. CONTRACTOR SHALL PROVIDE APPROVED ACCESS DOORS IN FRAMED HOLES FOR ALL VALVES AND TRAP PRIMERS WHICH MUST BE LOCATED IN INACCESSIBLE LOCATIONS.
3. ALL WATER PIPING SHALL BE PITCHED IN DIRECTION OF FLOW TO ALLOW FOR SYSTEM DRAINING.
4. INSTALL WATER MAIN SHUT-OFF VALVE UPSTREAM FROM PRESSURE REGULATOR.
5. INSTALL WATER PRESSURE REGULATOR WHERE AVAILABLE UTILITY PRESSURE EXCEEDS 70 PSI. SET PRESSURE REGULATOR AT 65 PS.
6. PROVIDE BACKFLOW PREVENTER ASSEMBLY WITH TAMPER RESISTANT ACCESS CABINET PER LOCAL CODE.
7. ROUTE WATER PIPING IN SALES AREA, OVERHEAD AS HIGH AS POSSIBLE.
8. DRAIN, WASTE AND VENT LINES SHALL PASS INSPECTION UNDER HEAD OF WATER BY SYSTEM WITH WATER TO TOP OF HIGHEST VENT STACK.
9. WATER LINES SHALL PASS INSPECTION OF FOUR (4) HOURS UNDER 150 PSI PRESSURE. BEFORE ANY USE OF SYSTEM IS MADE FOR DOMESTIC PURPOSES, IT SHALL BE DISINFECTED BY SLOWLY FILLING WITH WATER TO WHICH A DISINFECTING AGENT HAS BEEN INJECTED AT A RATE OF 50 P.P.M. OF CHLORINE, WHICH SHOULD BE ALLOWED TO STAND IN THE PIPING FOR AT LEAST 24 HOURS, AFTER WHICH TESTS FOR RESIDUAL CHLORINE SHALL SHOW NOT LESS THAN FIVE (5) P.P.M. OF RESIDUAL CHLORINE AT EVERY WATER OUTLET IN THE BUILDING. IF THE RESIDUAL IS LESS THAN FIVE PPM, THE DISINFECTION SHALL BE REPEATED UNTIL THE REQUIRED RESIDUAL IS OBTAINED AT EVERY OUTLET. AFTER REQUIRED RESIDUAL IS OBTAINED AT EVERY OUTLET, THE SYSTEM SHALL BE FLUSHED UNTIL THE CHLORINE LEVEL AT EVERY OUTLET IS REDUCED TO THAT OF INCOMING WATER SUPPLY.
10. SEPTIC SYSTEM NOT ALLOWED WITHOUT WRITTEN APPROVAL BY DOLLAR GENERAL.
11. HOLDING TANK SYSTEMS NOT ALLOWED.
12. LIFT STATIONS ARE NOT ALLOWED WITHOUT WRITTEN APPROVAL BY DOLLAR GENERAL.
13. CONTRACTOR RESPONSIBLE FOR ALL PUBLIC UTILITY CONNECTIONS.
14. ALL PLUMBING MATERIALS SHALL COMPLY WITH CODE.
15. REFER TO SHEET P2 FOR MATERIALS.




2 / P1 TOILET
SCALE: N.T.S.

SANITARY INVERT NOTE:
REQUIRED INVERT AT POINT OF CONNECTION (5 FT FROM EXTERIOR WALL) TO EXISTING SEWER SERVICE IS APPROXIMATELY 3'-0" BELOW FINISHED FLOOR BASED ON TOTAL LENGTH OF 130' SLOPED AT 1/8" PER FT AND STARTING INVERT OF 18" BELOW FINISHED FLOOR. CONTRACTOR TO FIELD VERIFY THE INVERT AND LOCATION OF SANITARY LINE AS SHOWN ON CIVIL DRAWINGS.

NOTES:
1. REFER TO SHEET P2, FOR ROUTING OF DOMESTIC WATER, SANITARY SEWER AND SANITARY VENT PIPING.
2. PROVIDE TAMPER PROOF CABINET WITH ACCESS PANEL FOR BACKFLOW ASSEMBLY.
3. DOMESTIC WATER, SANITARY SEWER AND SANITARY VENT PIPE ROUTING ARE DIAGRAMMATIC ONLY, COORDINATE PIPE ROUTING WITH FIELD CONDITIONS. REFER TO PIPING DIAGRAMS ON SHEET P2.

NOTE:
ALL WORK TO COMPLY WITH THE 6TH EDITION OF THE 2017 FLORIDA BUILDING CODE PLUMBING

## PLUMBING FIXURE SCHEDULE

| MARK | DESCRIPTION | HW CONNECTION | CW CONNECTION | WASTE CONNECTION | VENT CONNECTION | REMARKS |
|---|---|---|---|---|---|---|
| LAV-1 | ADA LAVATORY | 1/2" | 1/2" | 2" | 1-1/2" | 20"X18" WALL HUNG ADA LAVATORY W/ FRONT OVERFLOW, CONCEALED HANGERS & 4" CENTERS. AMERICAN STANDARD LUCERNE #0355.012 OR EQUAL. FAUCET SHALL BE POLISHED CHROME-PLATED CAST BRASS BODY WITH 4" SPOUT, 4" BRASS WRIST BLADE, 0.5 GPM SPRAY & POP-UP DRAIN. AMERICAN STANDARD MONTERREY #5502.175 WITH #V05 AERATOR OR EQUAL. INSULATE EXPOSED DRAIN & WATER PIPES WITH TRUEBRO LAV GUARD KIT #102 E-Z. PROVIDE SUPPLY LINES, STOP VALVES & P-TRAP. |
| WC-1 | ADA WATER CLOSET | - | 1/2" | 4" | 2" | FLOOR MOUNTED ADA VITREOUS CHINA ELONGATED 1.6 FLUSH GALLON CLOSE COUPLED TWO PIECE SIPHON JET WATER CLOSET & FLUSH TANK WITH 12" ROUGH-IN, AMERICAN STANDARD CHAMPION 4 "RIGHT HEIGHT" #2002.014 OR EQUAL. PROVIDE STOP VALVE, FLEXIBLE SUPPLY LINE & OPEN FRONT SEAT (AMERICAN STANDARD #5901.100 OR EQUAL)). |
| WC-2 | ADA WATER CLOSET RIGHT-HAND TRIP LEVER | - | 1/2" | 4" | 2" | FLOOR MOUNTED ADA VITREOUS CHINA ELONGATED 1.6 FLUSH GALLON CLOSE COUPLED TWO PIECE SIPHON JET WATER CLOSET & FLUSH TANK WITH 12" ROUGH-IN, AMERICAN STANDARD CHAMPION 4 "RIGHT HEIGHT" #2002.014 OR EQUAL WITH ALTERNATE TANK ASSEMBLY #4266.804 (RIGHT HAND TRIP LEVER). PROVIDE STOP VALVE, FLEXIBLE SUPPLY LINE & OPEN FRONT SEAT (AMERICAN STANDARD #5901.100 OR EQUAL). |
| EWH-1 | ELECTRIC WATER HEATER | 3/4" | 3/4" | - | - | PROVIDE 10 GALLON ELECTRIC WATER HEATER, 1.65KW @ 120V WITH MANUFACTURER SUPPLIED TEMPERATE AND PRESSURE RELIEF VALVE. (A.O. SMITH #EJC-10, OR EQUAL).<br>SET WATER HEATER TEMPERATURE AT 110°F MAXIMUM.<br>PROVIDE THERMAL EXPANSION TANK. (AMTROL THERM-X-TROL ST-12, OR EQUAL).<br>EXPANSION TANK SUPPORT:<br>IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SUPPORT FOR THE EXPANSION TANK. SUPPORT TO ADJACENT WALL OR FROM EXISTING STRUCTURE ABOVE WITH UNISTRUT. DO NOT SUPPORT FROM PIPE ALONE.<br>PROVIDE DRAIN PAN UNDER WATER HEATER.<br>PROVIDE SEISMIC STRAPPING ON WATER HEATER.<br>TERMINATE (EWH-1) DRAIN LINE IN MOP SINK (MS-1). PROVIDE FULL SIZE T&P RELIEF LINE. REFER TO WATER HEATER DETAIL ON SHEET P2 FOR ADDITIONAL INFORMATION. |
| MS-1 | MOP SINK | 3/4" | 3/4" | 3" | 2" | 24" X 24" MOLDED STONE MOP SERVICE BASIN, WITH 3' DRAIN. FIAT #MSB-2424 OR EQUAL. PROVIDE SERVICE FAUCET WITH PAIL HOOK & INTEGRAL VACUUM BREAKER, MOP BRACKET, FLAT STAINLESS STEEL STRAINER AND HOSE & BRACKET. FIAT #830 AA, 889 CC, 1453 BB & 832 AA OR EQUAL. PROVIDE SUPPLY LINES AND P-TRAP. |
| EDF-1 | BARRIER FREE ELECTRIC DRINKING FOUNTAIN | - | 1/2" | 2" | 1-1/2" | TWO-STATION, WALL MOUNTED, ELECTRIC DRINKING FOUNTAIN, BARRIER-FREE ACCESS (ADA), FRONT ONLY EASY TOUCH CONTROL, HIGH UNIT ON RIGHT. ELKAY #EZTLRDDC OR EQUAL. PROVIDE SUPPLY LINE, STOP VALVE & P-TRAP. PROVIDE CANE APRON AS REQUIRED. |
| WH-1 | WALL HYDRANT | - | 3/4" | - | - | FREEZE-PROOF WALL HYDRANT WITH BRONZE BODY & ANTI-SIPHON VACUUM BREAKER, BOX AND LOCKING COVER. PROVIDE WITH HOSE CONNECTION AND MOUNT AT 24" ABOVE GRADE. WOODFORD #865 OR EQUAL. |
| WCO-1 | WALL CLEAN-OUT | - | - | AS SHOWN ON PLANS | - | SIZE & INSTALL AS SHOWN ON PLANS. JOSAM, ZURN OR EQUAL. |
| ECO-1 | EXTERIOR CLEAN-OUT | - | - | 4" | - | PROVIDE TRAFFIC RATED, 2-WAY, EXTERIOR CLEANOUT. TYLER PIPE #003519, OR EQUAL. |
| FCO-1 | FLOOR CLEAN-OUT | - | - | AS SHOWN ON PLANS | - | PROVIDE ADJUSTABLE FLOOR CLEANOUT WITH WATERTIGHT TAPERED THREADED PLUG AND ROUND SCORIATED SECURED TOP, ADJUSTABLE TO FINISHED FLOOR. SIZE & INSTALL AS SHOWN ON PLANS. JOSAM, ZURN OR EQUAL. |

## SYMBOL LEGEND

| | |
|---|---|
| SAN | SANITARY PIPING |
| SAN BLW. | SANITARY PIPING BELOW |
| V | VENT PIPING |
| GAS | GAS PIPING |
| CW | COLD WATER PIPING |
| HW | HOT WATER PIPING |
| | SHUT-OFF VALVE |
| | BACKFLOW PREVENTER |
| | PRESSURE REGULATOR |
| | WALL CLEANOUT |
| | FREEZE-PROOF HOSE BIBB |
| | 2-WAY EXTERIOR CLEANOUT |
| | FLOOR CLEANOUT |

## CIVIL ENGINEERING DESIGN COORDINATION NOTICE

NOTICE TO ALL PARTIES HAVING AN INTEREST IN THIS CONSTRUCTION PROJECT:
1. CIVIL ENGINEERING FOR THIS PROJECT IS BEING PERFORMED BY OTHERS.
2. CONTRACTORS RELYING ON DOCUMENTS NOT COORDINATED WITH THE CIVIL ENGINEERING WORK SHALL DO SO AT THEIR OWN RISK.
3. COORDINATION WITH THE CIVIL ENGINEERING DOCUMENTS HAS BEEN COMPLETED ONLY AS SHOWN BELOW.

CIVIL ENGINEERING CONSULTANT IS: COMPANY NAME
ADDRESS
CITY, STATE
CONTACT: XXX
PHONE: (XXX) XXX-XXXX

| CIVIL SHEET DWG. NO. | CIVIL SHEET DWG. TITLE | REV. NO. | REV. DATE | REV. NO. | REV. DATE | REV. NO. | REV. DATE |
|---|---|---|---|---|---|---|---|
| - | - | - | - | | | | |
| | | | | | | | |
| | | | | | | | |

| COORDINATION CHECKED BY: | INITIAL | DATE | INITIAL | DATE | INITIAL | DATE |
|---|---|---|---|---|---|---|
| | - | - | | | | |

SEAL DATE: 5/6/19

NAWWAF A. AHMAD LICENSE No. 56095 STATE OF FLORIDA PROFESSIONAL ENGINEER

NAWWAF AHMAD, P.E.


M DESIGN ENGINEERING, INC.
CERTIFICATE OF AUTHORIZATION #30764 FOR ENGINEERING SERVICES
6001 Brick Court, Suite 201 / Winter Park, FL 32792
(407) 796-8239 / (321) 251-5677 • Fax / Certificate #29818
www.mdesigneng.com / info@mdesigneng.com
(Contact: Sam Ahmad)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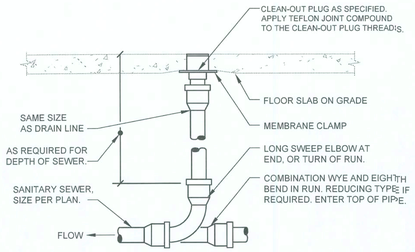
CONCEPT COMPANIES
3324 W. University Ave., GAINESVILLE, FL. 32607
LICENSE# CGC-1515491
PH: 877.219.7609 FAX: 352.219.7609
WWW.CONCEPTCOMPANIES.NET

DOLLAR GENERAL®
2144 SW BIRLEY AVE.
LAKE CITY, FL 32024
STORE # 19930
2018 PROTOTYPE - PLAN 9100C - 9,100 SQ. FT.

DRAWING DATE / DRAWN BY: 4/5/19 - NSA
REVISION DATE / REVISED BY:
PROJECT NUMBER: 4000.170
DRAWING TITLE: PLUMBING PLAN
SHEET NO.: P1

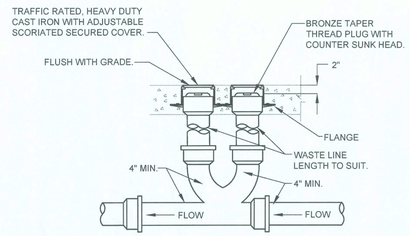



NOTES:
1. REFER TO SCHEDULE FOR ADDITIONAL INFORMATION. LOCATE FLOOR CLEAN-OUT AT END OF RUN, TURNS OF PIPE GREATER THAN 45°, 50' INTERVALS ON STRAIGHT RUNS, AND/OR WHERE SHOWN ON PLANS & RISERS. PROVIDE BACKFILL AS REQUIRED. LOCATE CLEAN-OUT WHERE THERE IS 18" CLEAR AROUND, FOR ACCESSIBILITY. COORDINATE WITH LOCAL CODES AND AUTHORITY HAVING JURISDICTION FOR ANY ADDITIONAL REQUIREMENTS.
2. PROVIDE FLOOR CLEAN-OUT WITH ADJUSTABLE COVER. CLEAN-OUT COVER SHALL BE SUITABLE FOR RESPECTIVE FLOOR COVERING (RECESSED FOR TILE, SCORIATED FOR UNFINISHED FLOORS, ETC.). CLEAN THE TOP OF EXPOSED FLOOR CLEAN-OUT AFTER INSTALLATION.

1 / P2 NOT USED
SCALE: N.T.S.

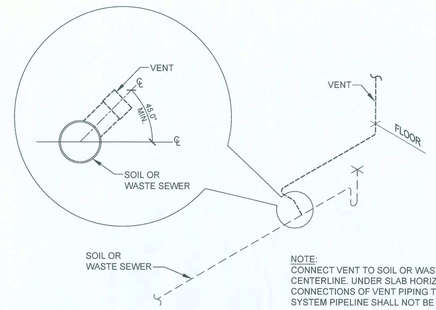
2 / P2 NOT USED
SCALE: N.T.S.

3 / P2 FLOOR CLEANOUT
SCALE: N.T.S.



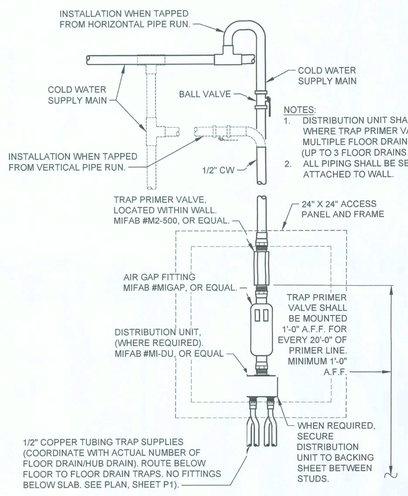

NOTES:
1. CLEAN-OUT SHALL BE TRAFFIC RATED.
2. ECO-1 SHALL BE INSTALLED WITHIN 5'-0" OF THE BUILDING EXTERIOR.

4 / P2 2-WAY YARD CLEANOUT
SCALE: N.T.S.




NOTE:
CONNECT VENT TO SOIL OR WASTE PIPING ABOVE CENTERLINE. UNDER SLAB HORIZONTAL CONNECTIONS OF VENT PIPING TO WASTE SEWER SYSTEM PIPELINE SHALL NOT BE ALLOWED.

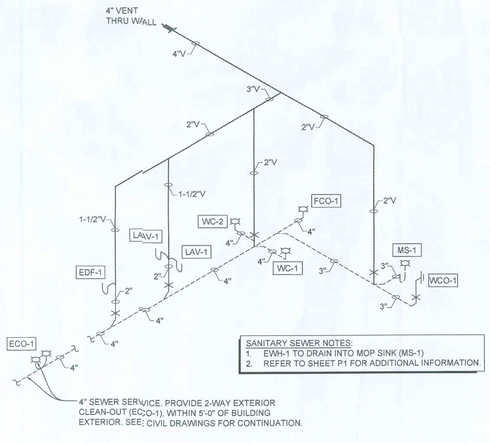
5 / P2 VENT PIPE INSTALLATION
SCALE: N.T.S.




NOTES:
1. DISTRIBUTION UNIT SHALL BE USED WHERE TRAP PRIMER VALVE SERVES MULTIPLE FLOOR DRAINS (UP TO 3 FLOOR DRAINS MAXIMUM).
2. ALL PIPING SHALL BE SECURELY ATTACHED TO WALL.

6 / P2 TRAP PRIMER
SCALE: N.T.S.

| MATERIALS |
|---|
| 1. DRAIN, WASTE AND VENT |
| A. SCHEDULE 40 AND 80 PVC OR ABS PIPING WITH DWV PATTERN FITTINGS TO BE USED UNLESS OTHERWISE REQUIRED BY LOCAL CODE. |
| 2. HOT AND COLD WATER |
| A. ABOVE GRADE. |
| a) TYPE "L" COPPER TUBING, HARD TEMPER, COLD DRAWN WITH WROUGHT COPPER LEAD FREE SWEAT FITTINGS. CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE WITH 85% RED BRASS IPS SIZE PIPE OR COMPRESSION ANGLE STOPS. PROVIDE DIELECTRIC UNIONS WHERE CONNECTING PIPING OF DISSIMILAR MATERIALS. |
| B. BELOW GRADE. |
| b) TYPE "K" COPPER TUBING, HARD OR SOFT TEMPER, WITH WROUGHT COPPER LEAD FREE SWEAT FITTINGS. NOTE: NO FITTINGS SHALL BE PERMITTED BELOW GRADE INSIDE BUILDING. |
| 3. AIR CONDITIONING CONDENSATE |
| A. SEE MATERIALS, SECTION 1, UNLESS OTHERWISE REQUIRED BY CODE. |
| 4. NATURAL GAS PIPING |
| A. SCHEDULE 40, ASTM A120, BLACK IRON PIPE WITH 150 LB. BLACK MALLEABLE THREADED OR SOCKET WELDED FITTINGS. |



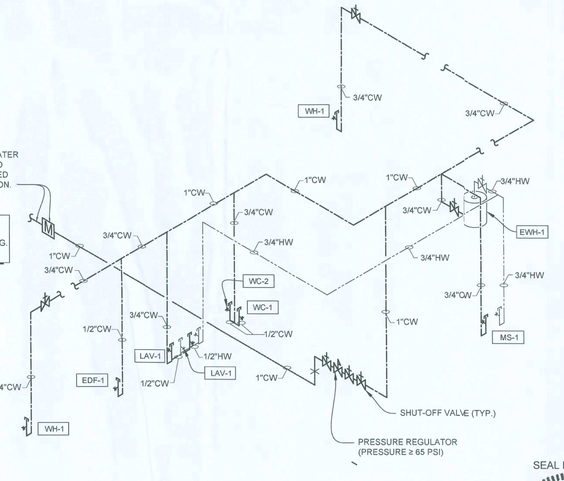

SANITARY SEWER NOTES:
1. EWH-1 TO DRAIN INTO MOP SINK (MS-1)
2. REFER TO SHEET P1 FOR ADDITIONAL INFORMATION.

4" SEWER SERVICE. PROVIDE 2-WAY EXTERIOR CLEAN-OUT (ECO-1), WITHIN 5'-0" OF BUILDING EXTERIOR. SEE; CIVIL DRAWINGS FOR CONTINUATION.

7 / P2 SANITARY & VENT ISO
SCALE: N.T.S.

1" DOMESTIC WATER SERVICE AND METER. WATER LINE SHALL ENTER BUILDING UNDER SLAB AND ROUTED ON WARM SIDE OF INSULATED FURRED WALL. SEE CIVIL DRAWINGS FOR CONTINUATION.

DOMESTIC WATER NOTES:
1. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION OF CONNECTION POINT TO EXISTING DOMESTIC WATER PIPING.
2. PRESSURE REGULATOR TO BE ≥ 65 PSI.




8 / P2 DOMESTIC WATER ISO
SCALE: N.T.S.

SEAL DATE: 5/6/19

NAWWAF A. AHMAD LICENSE No. 56095 STATE OF FLORIDA PROFESSIONAL ENGINEER

NAWWAF AHMAD, P.E.


DESIGN ENGINEERING, INC. LP
SUSTAINABLE DESIGN & ENERGY MANAGEMENT SOLUTIONS
6001 Brick Court, Suite 207 / Winter Park, FL 32792
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www.mepdesigninc.com / nawwafahmad@mepdesigninc.com
(Contact: Nawwaf Ahmad)



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CONCEPT COMPANIES
3324 W. University Ave., #M@151 / GAINESVILLE, FL 32607
LICENSE # CGC-1515491
PH: 877-326-2224 (ALL) 352-215-7809
WWW.CONCEPTCOMPANIES.NET


DOLLAR GENERAL®

2144 SW BIRLEY AVE.
LAKE CITY, FL 32024

STORE # 19930
2018 PROTOTYPE - PLAN '91000' - 9,100 SQ. FT.

DRAWING DATE: / DRAWN BY:
4/5/19 - NSA

REVISION DATE: / REVISED BY:

PROJECT NUMBER:
4000.170

DRAWING TITLE:
PLUMBING DETAILS

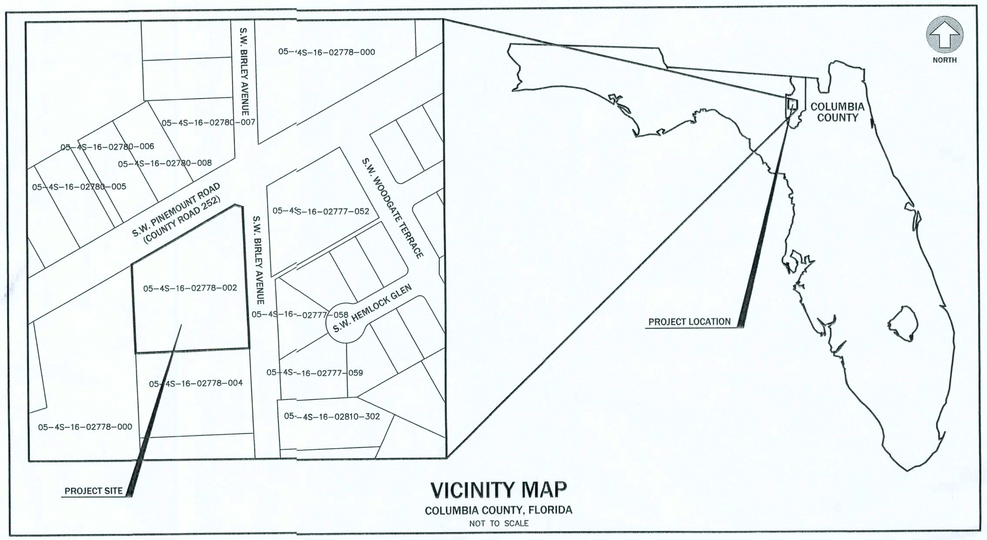
SHEET NO.
P2

# LAKE CITY BIRLEY CRS

## COLUMBIA COUNTY, FLORIDA

| DEVELOPMENT INFORMATION | | |
|---|---|---|
| 1. | PROJECT DESCRIPTION | A PROPOSED 9,101 SQUARE FOOT GENERAL STORE WITH ASSOCIATED IMPROVEMENTS. |
| 2. | PROJECT ADDRESS: | TBD |
| 3. | TAX PARCEL NUMBER: | PART OF 05-4S-16-02778-002 |
| 4. | SECTION/TOWNSHIP/RANGE: | SECTION 5, TOWNSHIP 4 SOUTH, RANGE 16 EAST |
| 5. | ZONING: | A-3 |
| 6. | FUTURE LAND USE DESIGNATION: | AGRICULTURE-3 (1/3) |

| CONTACT INFORMATION | | |
|---|---|---|
| 1. | PROPERTY OWNER: | RACHAEL STEPHEIS<br>2270 SW BIRLEY AVENUE<br>LAKE CITY, FL 32024 |
| 2. | DEVELOPER: | CONCEPT DEVELOPMENT, INC<br>3324 W UNIVERSITY AVE. PMB #151<br>GAINESVILLE, FL 32607<br>CONTACT: MATT JASON |
| 3. | ENGINEER: | eda engineers surveyors planners, inc.<br>2404 NW 43rd STREET<br>GAINESVILLE, FL 32606<br>(352) 373-3541<br>CONTACT: SERGIO REYES, P.E. |
| 4. | SURVEYOR: | FLOWERS SURVEYNG AND MAPPING, INC<br>16407 NW 174TH DRIVE<br>ALACHUA, FL 32615 |
| 5. | LANDSCAPE ARCHITECT: | BORTON DESIGN, NC<br>1354 N KYLE WAY<br>SAINT JOHNS, FL 32259<br>CONTACT: BRIAN BORTON |




**VICINITY MAP**
COLUMBIA COUNTY, FLORIDA
NOT TO SCALE

| DEVELOPMENT DATA | | | |
|---|---|---|---|
| 1. | AREA | | |
| | TOTAL PARCEL AREA: | 2.0 AC | 100.0% |
| | PROPOSED BUILDING AREA: | 0.2 AC | 10.4% (MAX 30.0%) |
| | PROPOSED PAVEMENT/SIDEWALK AREA: | 0.4± AC | 21.4% |
| | TOTAL PROPOSED IMPERVIOUS AREA: | 0.6± AC | 31.8% |
| | TOTAL PROPOSED OPEN AREA: | 1.3± AC | 68.2% |
| 2. | PARKING | | |
| | CRITERIA: | LDR SEC. 4.513(15) | |
| | PROPOSED: | 30 SPACES (NCLUDING 2 HANDICAP SPACES) – SEE PARKING STUDY | |

**TRIP GENERATION**

DISCOUNT VARIETY RETAIL (9,100 S.F.)

| LAND USE | | | | | | DISTRIBUTION % | | TRIPS | | INT. | PASS | NET TRIPS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DESCRIPTION | ITE | PERIOD | ITE RATE | UNIT | TRIPS | ENTER | EXIT | IN | OUT | CAP. | BY | |
| VARIETY STORE | 814 | DAILY | 64.03/1,000 S.F. | 9,100 S.F. | 583 | 50% | 50% | 292 | 292 | 0 | 198 | 385 |
| VARIETY STORE | 814 | AM | 3.81/1,000 S.F. | 9,100 S.F. | 35 | 68% | 32% | 24 | 11 | 0 | 12 | 23 |
| VARIETY STORE | 814 | PM | 6.82/1,000 S.F. | 9,100 S.F. | 62 | 50% | 50% | 31 | 31 | 0 | 21 | 41 |

UNITS: KSF = 1,000 SQUARE FEET

SOURCE: ITE TRIP GENERATION, 10TH EDITION
PASS-BY RATE FROM ITE TRIP GENERATION HANDBOOK

| PERMITS REQUIRED | |
|---|---|
| COLUMBIA COUNTY | SITE DEVELOPMENT PLAN PERMIT |
| SUWANNEE RIVER WATER MANAGEMENT | ENVIRONMENTAL RESOURCE PERMIT |
| FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION | NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT<br>WELL AND SEPTIC PERMIT |

**LEGAL DESCRIPTION**

A PARCEL OF LAND SITUATED IN SECTION 5, TOWNSHIP 4 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA, BEING A PORTION OF THE LANDS DESCRIBED IN OFFIGAL RECORDS BOOK 1218, PAGE 992 OF THE PUBLIC RECORDS OF SAID COLUMBIA COUNTY, SAID PARCEL BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHEAST CORNER OF THE SOUTHWEST QUARTER (SW 1/4) OF SAID SECTION 5, TOWNSHIP 4 SOUTH, RANGE 16 EAST FOR THE POINT OF REFERENCE; THENCE RUN SOUTH 88°19'59" WEST, ALONG THE SOUTH LINE OF SAID SW 1/4, A DISTANCE OF 41.89 FEET TO THE WESTERLY RIGHT OF WAY LINE OF S.W. BIRLEY AVENUE (RIGHT OF WAY WIDTH VARIES) AS DESCRIBED IN OFFICIAL RECORDS BOOK 974, PAGE 2142 OF SAID PUBLIC RECORDS; THENCE RUN NORTH 02°19'18" WEST, ALONG SAID WESTERLY RIGHT OF WAY LINE, A DISTANCE OF 356.52 FEET TO THE NORTHEAST CORNER OF THE LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 1291, PAGE 2605 OF SAID PUBLIC RECORDS AND THE POINT OF BEGINNING; THENCE CONTINUE NORTH 02°19'18" WEST ALONG SAID WESTERLY RIGHT OF WAY LINE, A DISTANCE OF 340.87 FEET; THENCE RUN NORTH 60°44'26" WEST, ALONG SAID WESTERLY RIGHT OF WAY LINE, A DISTANCE OF 31.42 FEET TO THE NORTH LINE OF THE AFOREMENTIONED LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 1218, PAGE 192 AND THE SOUTHERLY RIGHT OF WAY LINE OF COUNTY ROAD NO. 252 (S.W. PINEMOUNT ROAD)(A 100 FOOT RIGHT OF WAY); THENCE RUN SOUTH 60°50'25" WEST, ALONG SAID NORTH LINE AND ALONG SAID SOUTHERLY RIGHT OF WAY LINE, A DISTANCE OF 305.70 FEET TO THE NORTHWEST CORNER OF SAID LANDS; THENCE RUN SOUTH 02°27'59" EAST, ALONG THE WEST LINE OF SAID LANDS, A DISTANCE OF 215.90 FEET TO THE NORTHWEST CORNER OF THE AFOREMENTIONED LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 1291, PAGE 2605; THENCE RUN NORTH 88°19'59" EAST, ALONG THE NORTH LINE OF SAID LANDS, A DISTANCE OF 299.01 FEET TO THE POINT OF BEGINNING.

CONTAINING 2.01 ACRES (87,417 SQUARE FEET), MORE OR LESS.

**BEFORE YOU DIG !**
**CALL SUNSHINE STATE ONE CALL OF FLORIDA**
AT LEAST TWO FULL BUSINESS DAYS BEFORE DIGGING OR DISTURBING EARTH

811 Know what's **below.** **Call** before you dig.

1-800-432-4770

**DRAWING INDEX**

| SHEET NUMBER | SHEET TITLE |
|---|---|
| C001 | COVER SHEET |
| C005 | LEGENDS AND GENERAL NOTES |
| C010 | DEMOLITION PLAN |
| C101 | DIMENSION PLAN |
| C201 | PAVING, GRADING, AND DRAINAGE PLAN |
| C205 | PAVING, GRADING, AND DRAINAGE DETAILS |
| C215 | BASIN DETAILS |
| C220 | STORMWATER POLLUTION PREVENTION PLAN |
| C301 | UTILITY PLAN |
| A | ARCHITECTURAL PLAN (DESIGNED BY OTHERS) |
| L | LANDSCAPE PLAN (DESIGNED BY OTHERS) |
| S | BOUNDARY AND TOPOGRAPHIC SURVEY (BY OTHERS) |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www.eda1.com mail@eda1.com


FILE COPY
COLUMBIA COUNTY BUILDING DEPARTMENT

ZONING DEPARTMENT
COLUMBIA COUNTY
FLORIDA
APPROVED

| No. | Date | Comment |
|---|---|---|
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| | | |
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| | | |
| | | |

Registered Engineer of Record:
SERGIO J. REYES
STATE OF FLORIDA
No. 47311
PROFESSIONAL ENGINEER
3/15/19

Sergio J. Reyes, P.E. — Engineer
47311 — Certificate No.

Project No: 18-059

Project phase: COLUMBIA COUNTY SUBMITTAL

Project title: LAKE CITY BIRLEY CRS COLUMBIA COUNTY, FLORIDA

Sheet title: COVER SHEET

| | |
|---|---|
| Designed: | MD |
| Drawn: | SLP |
| Checked: | TAR |
| Date: | 03/15/19 |

Sheet No.: C001


I:\engprojects\Concept Companies - Columbia County\Plans\Current DWG\CC1805911.dwg, C001 - COVER, 3/15/2019 9:32:13 AM

## EXISTING SYMBOLS & ABBREVIATIONS

PER FLOWERS SURVEYING AND MAPPING INC

- ● = FOUND 5/8" REBAR & CAP (LB 7683)
- ⊡ = FOUND 4"x4" CONCRETE MONUMENT (AS NOTED)
- ● = SET 5/8" REBAR & CAP (PLS 6602)
- (M) = MEASURED
- (L) = LEGAL DESCRIPTION DATA
- S.F. = SQUARE FEET
- O.R. = OFFICIAL RECORDS BOOK
- R/W = RIGHT OF WAY
- CMP = CORRUGATED METAL PIPE
- INV = INVERT
- 123.00 = SPOT ELEVATION
- = BENCHMARK
- = METAL SIGN
- —x— = EXISTING 4' METAL FENCE LINE
- = EXISTING STORM PIPE
- = DIRT DRIVEWAY

## PROPOSED UTILITY SYMBOLS

- WM — WATER MAIN, PROPOSED
- WM — WATER MAIN, EXISTING
- WW — WASTEWATER GRAVITY MAIN, PROPOSED
- PLUG END AND CAP
- BLOW-OFF ASSEMBLY
- GATE VALVE & BOX
- BUTTERFLY VALVE
- PLUG VALVE
- SWING CHECK VALVE
- BACK FLOW PREVENTER
- BP — REDUCED PRESSURE ZONE BFP
- DC — DOUBLE CHECK BFP
- DUAL CHECK VALVE
- ARV — AIR RELEASE VALVE
- REDUCER FITTING
- R — PRESSURE REGULATOR
- POST INDICATOR VALVE
- CLEAN OUT OR ROOF DRAIN LATERAL
- FITTING W/ THRUST BLOCK
- FIRE HYDRANT W/ THRUST BLOCK
- FIRE HYDRANT ASSEMBLY
- POTABLE WATER METER
- SSM — SINGLE SERVICE WATER METER
- DUAL SERVICE WATER METER
- GANG WATER METER ASSEMBLY
- TX — ELECTRIC TRANSFORMER
- RECLAIMED WATER METER ASSEMBLY
- RCW — RECLAIMED WATER MAIN, PROPOSED
- RCW — PLUG END AND CAP
- RCW — BLOW-OFF ASSEMBLY
- RCW — GATE VALVE & BOX
- RCW — REDUCER FITTING
- FM — WASTEWATER (PRESSURE) MAIN, PROPOSED
- SS — SANITARY SEWER MAIN, PROPOSED
- SS — SANITARY SEWER MAIN, EXISTING
- SS — SANITARY SEWER MANHOLE, PROPOSED
- SS — SANITARY SEWER MANHOLE, EXISTING
- SANITARY SEWER PLUG
- PLUG VALVE
- SEWER LATERAL, SINGLE SERVICE
- GATE VALVE
- CHECK VALVE
- A.R. — AIR RELEASE VALVE

## GENERAL NOTES

1. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES, AFFECTING THIS WORK, PRIOR TO CONSTRUCTION.
2. PRIOR TO THE INITIATION OF SITE CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ANY EXISTING UTILITIES INCLUDING GAS, WATER, ELECTRIC, CABLE TV, COMMUNICATIONS, SANITARY SEWERS AND STORM DRAINAGE SYSTEMS, ON AND/OR ADJACENT TO THE SITE. REMOVE OR CAP AS NECESSARY. CONTACT ENGINEER OF RECORD IMMEDIATELY WITH ANY DISCREPANCIES.
3. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED, BY THE CONTRACTOR OR SUB-CONTRACTORS, AS CALLED FOR IN THESE CONTRACT DOCUMENTS.
4. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES FOR THE RELOCATION OF EXISTING UTILITIES. UTILITIES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION, AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF THE WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS SPECIFIED BY THE VARIOUS GOVERNMENTAL AGENCIES AND THE ENGINEER. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, AND SCHEDULE INSPECTIONS ACCORDING TO AGENCY INSTRUCTION/REQUIREMENTS.
6. THE CONTRACTOR SHALL, SUBMIT SHOP DRAWINGS, ON ALL PRECAST AND MANUFACTURED ITEMS, TO THE OWNER'S ENGINEER FOR REVIEW. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
7. SAFETY:
   A. DURING THE CONSTRUCTION AND/OR MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF HIS/HER PERSONNEL.
   B. LABOR SAFETY REGULATIONS SHALL CONFORM TO THE PROVISIONS SET FORTH BY OSHA.
   C. THE MINIMUM STANDARDS AS SET FORTH IN THE CURRENT EDITION OF "THE STATE OF FLORIDA, MANUAL ON TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS" SHALL BE FOLLOWED IN THE DESIGN, APPLICATION, INSTALLATION, MAINTENANCE AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES AND BARRIERS NECESSARY TO PROTECT THE PUBLIC AND CONSTRUCTION PERSONNEL FROM HAZARDS WITHIN THE PROJECT LIMITS.
   D. ALL TRAFFIC CONTROL MARKINGS AND DEVICES SHALL CONFORM TO THE PROVISIONS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PREPARED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION.
   E. ALL SUBSURFACE CONSTRUCTION SHALL COMPLY WITH THE "TRENCH SAFETY ACT". THE CONTRACTOR SHALL INSURE THAT THE METHOD OF TRENCH PROTECTION AND CONSTRUCTION IS IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS.
   F. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATIONS.
8. ALL UNDERGROUND UTILITIES MUST BE IN-PLACE, TESTED AND INSPECTED PRIOR TO BASE AND SURFACE CONSTRUCTION.
9. CONTRACTOR IS REQUIRED TO SECURE A FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) "NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM" (NPDES) PERMIT BEFORE BEGINNING CONSTRUCTION.
10. A COMPLETE SET OF PERMITTED DRAWINGS AND SPECIFICATIONS MUST BE MAINTAINED ON SITE AT ALL TIMES THAT THE CONTRACTOR IS PERFORMING WORK. THESE DRAWINGS SHALL BE MADE AVAILABLE UPON REQUEST.
11. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE CONSTRUCTED SIMULTANEOUSLY WITH THE DISTURBANCE OF THE LAND AND SHALL REMAIN FUNCTIONAL UNTIL THE CONTRIBUTING DISTURBED AREAS ARE STABILIZED. SILT BARRIERS WILL BE INSTALLED AS NECESSARY TO PREVENT EXCESSIVE SEDIMENTATION OF DOWNSTREAM AREAS.
12. THE CONTRACTOR SHALL, CONSTRUCT GRAVITY SEWER LATERALS, MANHOLES GRAVITY SEWER LINES AND DOMESTIC WATER AND FIRE PROTECTION SYSTEM AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIALS, EQUIPMENT, MACHINERY, TOOLS, MEANS OF TRANSPORTATION AND LABOR NECESSARY TO COMPLETE THE WORK IN FULL AND COMPLETE ACCORDANCE WITH THE SHOWN, DESCRIBED AND REASONABLY INTENDED REQUIREMENTS OF THE CONTRACT DOCUMENTS AND JURISDICTIONAL AGENCY REQUIREMENTS. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.

## CONSTRUCTION NOTES

1. SIGNS AND BARRICADES SHALL BE IN ACCORDANCE WITH THE U.S. DEPARTMENT OF TRANSPORTATION'S MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES; AND THE FLORIDA DEPARTMENT OF TRANSPORTATION'S ROADWAY AND TRAFFIC DESIGN STANDARDS' INDEXES 600 THROUGH 685 (LATEST EDITIONS).
2. SAFE PEDESTRIAN TRAFFIC IS TO BE MAINTAINED AT ALL TIMES.
3. ANY SIDEWALK WHICH BECOMES UNDERMINED MUST BE REMOVED AND REPLACED. SIDEWALKS ARE TO BE RECONSTRUCTED WITHIN THREE (3) DAYS AFTER REMOVAL. WHEN EXISTING SIDEWALK IS REMOVED, IT IS TO BE REMOVED TO THE NEAREST JOINT.
4. DISTURBED AREA WITHIN THE R-O-W WILL BE COMPACTED TO 98% OF MAXIMUM DENSITY AND SODDED.
5. STOCKPILING OF MATERIAL IS NOT ALLOWED ON ROADWAYS OR SIDEWALKS. ALL DIRT AND DEBRIS WILL BE REMOVED FROM JOB SITE DAILY. ROADS AND SIDEWALKS ARE TO BE SWEPT DAILY AS PART OF DAILY CLEANUP.
6. ANY PORTION OF ROADWAYS OR SIDEWALKS THAT SUSTAIN EXCESSIVE CONSTRUCTION RELATED DAMAGE, IN THE OPINION OF APPLICABLE AGENCIES, SHALL BE REPAIRED AT CONTRACTOR EXPENSE IN A MANNER SPECIFIED BY THAT PARTICULAR AGENCY.
7. CONSTRUCTION MUST BE PER THE APPROVED SITE PLAN OF THE DRC (OR EQUIVALENT). DEVIATIONS IN ROADWAY, UTILITY OR DRAINAGE CONSTRUCTION WILL REQUIRE PRIOR WRITTEN APPROVAL OF THE CITY ENGINEER OR THE DIRECTOR OF PUBLIC SERVICES (OR EQUIVALENT). NOTE: SIGNIFICANT CHANGES FROM THE DRC APPROVED PLAN MAY REQUIRE THE OWNER/DEVELOPER TO SUBMIT A REVISED SITE PLAN FOR REVIEW THROUGH THE DRC AND MAY CAUSE PROJECT DELAYS.
8. OFF-SITE OR ROADWAY R-O-W CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CONDITIONS OF THE APPROVED R-O-W PERMIT(S). A COPY OF THE APPROVED R-O-W PERMIT MUST BE KEPT ON-SITE AND READILY AVAILABLE DURING ALL CONSTRUCTION ACTIVITIES WITHIN THE R-O-W.
9. DURING THE CONSTRUCTION AND/OR MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF HIS/HER PERSONNEL.
10. ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP ARE TO BE IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS AND STANDARDS.
11. CONTRACTOR IS RESPONSIBLE FOR CHECKING ACTUAL SITE CONDITIONS BEFORE STARTING CONSTRUCTION.
12. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE COMMENCING WORK.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED CONSTRUCTION PERMITS AND BONDS IF REQUIRED PRIOR TO CONSTRUCTION.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING TO THE ENGINEER A CERTIFIED RECORD SURVEY SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA DEPICTING THE ACTUAL FIELD LOCATION OF ALL CONSTRUCTED IMPROVEMENTS THAT ARE REQUIRED BY THE JURISDICTIONAL AGENCIES FOR THE CERTIFICATION PROCESS. ALL SURVEY COSTS WILL BE THE CONTRACTORS RESPONSIBILITY. BOTH PAPER AND AUTOCAD FILES SHALL BE PROVIDED.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING AND MAINTAINING AS-BUILT INFORMATION WHICH SHALL BE RECORDED AS CONSTRUCTION PROGRESSES OR AT THE COMPLETION OF APPROPRIATE CONSTRUCTION INTERVALS AND SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS TO THE OWNER FOR THE PURPOSE OF CERTIFICATION TO JURISDICTIONAL AGENCIES AS REQUIRED. BOTH PAPER AND AUTOCAD SHALL BE PROVIDED.

## EROSION CONTROL NOTES

1. THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS COMPRISED OF THE EROSION CONTROL PLAN, THE STANDARD DETAILS, THE PLAN NARRATIVE, ATTACHMENTS REFERENCED BY THE SWPPP, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF FLORIDA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
3. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
4. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
5. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
6. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
8. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER RUNOFF.
9. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THE PLAN SHALL BE INITIATED AS SOON AS PRACTICABLE.
10. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 7 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRED IN THESE AREAS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM DRAINS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
12. ON-SITE & OFF SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE EROSION CONTROL PLAN BY THE CONTRACTOR AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, STABILIZATION, SEDIMENT BASINS, ETC.) AS NEEDED FOR EACH STAGE OF SITE WORK / GRADING.
14. NO GRADING, CUTTING, OR FILLING SHALL COMMENCE UNTIL SUCH TIME AS APPROPRIATE EROSION AND SEDIMENTATION CONTROL DEVICES HAVE BEEN INSTALLED BETWEEN ALL DISTURBED AREAS AND WATER BODIES, WATERCOURSES OR WETLANDS AND ANY CONVEYANCES SUCH AS DRAINAGE DITCHES, STORM DRAINS, AND INLETS.
15. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED PRECEEDING ANY DISTURBANCE OF THE LAND AND SHALL REMAIN FUNCTIONAL UNTIL THE CONTRIBUTING DISTURBED AREAS ARE STABILIZED. THE CONTRACTOR SHALL INSTALL ALL EROSION AND PREVENTION STRUCTURES SHOWN ON THE PLANS AT A MINIMUM AND IN FULL CONFORMANCE WITH ALL APPLICABLE WATER MANAGEMENT DISTRICT PERMITS AND REGULATIONS.
16. ALL CONTROL STRUCTURE AND OUTFALL CULVERT INSTALLATIONS SHALL BE PROTECTED WITH SEDIMENT BARRIERS AT A MINIMUM.
17. ALL DISTURBED AREAS (ABOVE NORMAL WATER LEVELS) UNLESS OTHERWISE NOTED HEREIN, SHALL BE SEEDED AND MULCHED WITHIN 7 DAYS OF FINAL GRADING. UNLESS OTHERWISE NOTED, ALL SLOPES STEEPER THAN 4:1 SHALL BE SODDED.

## PAVING, GRADING, AND DRAINAGE NOTES

1. TRAFFIC CONTROL ON ALL FDOT, LOCAL AND COUNTY RIGHTS-OF-WAY SHALL MEET THE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (U.S. DOT/FHA) AND THE REQUIREMENTS OF THE STATE AND ANY LOCAL AGENCY HAVING JURISDICTION. IN THE EVENT THAT THE CONTRACT DOCUMENTS AND THE JURISDICTIONAL AGENCY REQUIREMENTS ARE NOT IN AGREEMENT, THE MOST STRINGENT SHALL GOVERN.
2. ALL OPEN AREAS WITHIN THE PROJECT SITE SHALL BE SODDED UNLESS INDICATED OTHERWISE ON THE LANDSCAPE PLAN.
3. THE CONTRACTOR SHALL INSTALL FILTER FABRIC OVER ALL DRAINAGE STRUCTURES FOR THE DURATION OF CONSTRUCTION AND UNTIL ACCEPTANCE OF THE PROJECT BY THE OWNER. ALL DRAINAGE STRUCTURES SHALL BE CLEANED OF DEBRIS AS REQUIRED DURING AND AT THE END OF CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE FLOWS.
4. IF DEWATERING IS REQUIRED, THE CONTRACTOR SHALL OBTAIN ANY APPLICABLE REQUIRED PERMITS. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER AND THE DESIGN ENGINEER PRIOR TO ANY EXCAVATION.
5. THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE ENVIRONMENTAL RESOURCE PERMIT COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST BY WATER MANAGEMENT DISTRICT REPRESENTATIVES.
6. THE CONTRACTOR SHALL ENSURE THAT ISLAND PLANTING AREAS AND OTHER PLANTING AREAS ARE NOT COMPACTED AND DO NOT CONTAIN ROAD BASE MATERIALS. THE CONTRACTOR SHALL ALSO EXCAVATE AND REMOVE ALL UNDESIRABLE MATERIAL FROM ALL AREAS ON THE SITE TO BE PLANTED AND PROPERLY DISPOSED OF IN A LEGAL MANNER.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING OR SHORING AS NECESSARY. DE-WATERING METHODS SHALL BE USED AS REQUIRED TO KEEP TRENCHES DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED.
8. THE CONTRACTOR WILL STABILIZE BY SEED AND MULCH, SOD, OR OTHER APPROVED MATERIALS ANY DISTURBED AREAS WITHIN ONE WEEK FOLLOWING CONSTRUCTION OF THE UTILITY SYSTEMS AND PAVEMENT AREAS. CONTRACTOR SHALL MAINTAIN SUCH AREAS UNTIL FINAL ACCEPTANCE BY OWNER. CONTRACTOR TO COORDINATE WITH OWNER REGARDING TYPE OF MATERIAL, LANDSCAPING AND IRRIGATION IMPROVEMENTS TO FOLLOW.
9. SITE GRADING, PAVING AND DRAINAGE MATERIALS AND CONSTRUCTION SHALL CONFORM TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
10. IMMEDIATELY AT ONSET OF CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES CRITICAL TO COMPLETING THE PROJECT (INCLUDING WATER, SEWER, POWER, TELEPHONE, GAS, AND CABLE TV) AND SHALL EVALUATE POTENTIAL CONFLICTS. ALL SUCH CONFLICTS SHALL BE REPORTED TO ENGINEER/OWNER IMMEDIATELY UPON DISCOVERY.
11. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL FIELD STAKE AND ROPE OFF CONSERVATION AREA LINES. OWNER RESERVES THE RIGHTS TO CHECK THE STAKING AND ROPING AND REQUIRE IT TO BE RELOCATED IF NECESSARY. IT SHALL REMAIN IN PLACE UNTIL ADJACENT CONSTRUCTION IS COMPLETE.
12. CONTRACTOR SHALL BE EXTREMELY CAUTIOUS WHEN WORKING NEAR TREES WHICH ARE TO BE SAVED, WHETHER SHOWN IN THE PLANS OR DESIGNATED IN THE FIELD.
13. ALL SIGNAGE, PAVEMENT MARKING AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS AND FHWA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
14. REGULATORY SIGNS (STOP, ETC.) SHALL BE PAID FOR BY THE CONTRACTOR AND IN PLACE PRIOR TO FINAL INSPECTION OF PAVING AND DRAINAGE IMPROVEMENTS.
15. BLUE REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED OPPOSITE FIRE HYDRANTS IN THE CENTER OF THE NEAREST TRAVELED LANE TO MARK THEIR LOCATIONS.
16. CONTRACTOR IS RESPONSIBLE FOR GRADING ALL PAVEMENTS TO DRAIN POSITIVELY. INTERSECTIONS SHALL BE TRANSITIONED TO PROVIDE SMOOTH DRIVING SURFACE WHILE MAINTAINING POSITIVE DRAINAGE. SHOULD AREAS OF POOR DRAINAGE BE OBSERVED, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO PLACEMENT OF CURBS OR PAVEMENT COURSES, SO THAT RECOMMENDATIONS FOR CORRECTION MAY BE MADE.
17. PROPOSED AND EXISTING SIDEWALKS SHALL BE RAMPED FLUSH WITH PAVEMENT. RAMPS SHALL NOT EXCEED SLOPES OF 14 HORIZONTAL TO 1 VERTICAL.
18. FINISHED FLOOR ELEVATIONS ARE MINIMUM ELEVATIONS REQUIRED TO SATISFY DRAINAGE AND/OR 100-FLOODPLAIN REQUIREMENTS. PAD ELEVATIONS, IMMEDIATELY OUTSIDE OF BUILDING WALLS, SHALL BE NO MORE THAN 8 INCHES BELOW THE FINISHED FLOOR ELEVATIONS SHOWN. FFE ABOVE MINIMUM ELEVATION SHOWN SHALL NOT CAUSE SITE AREAS TO BE OUT OF TOLERANCE WITH THE DESIGN PLANS. ADDITIONAL COST TO CONSTRUCT THE FFE TO OUT OF TOLERANCE ELEVATION SHALL BE BOURNE BY THE CONTRACTOR.
19. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND DISPOSING ALL WASTE MATERIALS CONSISTENT WITH ALL RULES AND REGULATIONS APPLICABLE TO THE SPECIFIC MATERIAL FOUND. ALL DELETERIOUS SUBSURFICE MATERIAL (I.E. MUCK, PEAT, BURIED DEBRIS, ETC.) IS TO BE EXCAVATED AND REPLACED WITH SUITABLE/COMPACTED SOILS, AS DIRECTED BY THE OWNER, THE OWNERS ENGINEERS, OR OWNERS SOILS TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ANY PERMITS THAT ARE NECESSARY FOR REMOVING DELETERIOUS MATERIAL FROM THE SITE.
20. ALL NECESSARY FILL AND EMBANKMENT THAT IS PLACED DURING CONSTRUCTION SHALL CONSIST OF MATERIAL SPECIFIED BY THE OWNER'S SOILS TESTING COMPANY OR ENGINEER AND BE PLACED AND COMPACTED ACCORDING TO THESE PLANS.
21. PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT, SIDEWALK, OR GROUND SURFACE GRADES, UNLESS OTHERWISE NOTED.
22. CURBING SHALL BE PLACED AS SHOWN ON PLANS. REFER TO THE LATEST EDITION OF F.D.O.T. "ROADWAY AND TRAFFIC DESIGN STANDARDS" FOR DETAILS AND SPECIFICATIONS OF ALL FDOT TYPE CURB AND GUTTERS CALLED FOR IN THESE PLANS.
23. THE CONTRACTOR SHALL RESTORE OFF-SITE CONSTRUCTION AREAS TO EQUAL AND/OR BETTER CONDITION THAN EXISTING PRIOR TO START OF CONSTRUCTION.
24. UNLESS OTHERWISE NOTED, GRADE TO MEET EXISTING ELEVATION AT PROPERTY LINES.
25. SURVEY MONUMENTS OR BENCHMARKS, WHICH HAVE TO BE DISTURBED BY THIS WORK, SHALL BE REPLACED UPON COMPLETION OF WORK BY A REGISTERED LAND SURVEYOR. ALL SURVEY COSTS WILL BE CONTRACTORS RESPONSIBILITY.
26. FINAL GRADES SHOWN INCLUDE SOD HEIGHT. ALL AREAS SHALL BE GRADED TO DRAIN AWAY FROM THE BUILDINGS.
27. IF WORK IS SUSPENDED OR DELAYED FOR 14 DAYS, THE CONTRACTOR SHALL TEMPORARILY STABILIZE THE DISTURBED AREAS AT NO ADDITIONAL COST TO THE OWNER.
28. STORM DRAINS SHALL BE REINFORCED CONCRETE PIPE, PER ASTM C-76 CLASS III, UNLESS OTHERWISE SPECIFIED. LIFTING HOLES ARE PROHIBITED.
29. ALL STORM STRUCTURES SHALL CONFORM WITH FDOT STANDARD INDEX DRAWINGS AND SPECIFICATIONS EXCEPT THAT DITCH BOTTOM INLETS IN PAVED AREAS SHALL HAVE TRAVERSABLE, TRAFFIC BEARING, GRATES SUPPORTED BY STEEL ANGLE SEATS OR SUPPORTED ON FOUR SIDES. GRATES SHALL BE CAST IRON UNLESS OTHERWISE SPECIFIED OR APPROVED.
30. ALL CONCRETE CURBS, SIDEWALKS, INLET TOPS, ETC. SHALL BE 3000 PSI MINIMUM, UNLESS OTHERWISE SPECIFIED.
31. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPLICABLE TESTING WITH THE SOILS ENGINEER TESTS WILL BE REQUIRED PURSUANT WITH THE SOILS REPORT. UPON COMPLETION OF WORK THE SOILS ENGINEER WILL SUBMIT CERTIFICATIONS TO THE OWNER AND OWNER'S ENGINEER STATING THAT ALL REQUIREMENTS HAVE BEEN MET.
32. A QUALIFIED TESTING LABORATORY SHALL PERFORM ALL TESTING NECESSARY TO ASSURE COMPLIANCE OF THE IN-PLACE MATERIALS AS REQUIRED BY THESE PLANS, THE VARIOUS AGENCIES AND PERMIT CONDITIONS. SHOULD ANY RETESTING BE REQUIRED DUE TO THE FAILURE OF ANY TESTS TO MEET THE REQUIREMENTS, THE CONTRACTOR WILL BEAR ALL COSTS OF SAID RETESTING
33. THE STORM DRAINAGE PIPING SYSTEM SHALL BE SUBJECT TO A VISUAL INSPECTION BY THE OWNER'S ENGINEER PRIOR TO THE PLACEMENT OF BACKFILL. CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE TO SCHEDULE INSPECTION.
34. THE CONTRACTOR SHALL MAINTAIN AND PROTECT FROM MUD, DIRT, DEBRIS, ETC. THE STORM DRAINAGE SYSTEM UNTIL FINAL ACCEPTANCE OF THE PROJECT. THE STORM SYSTEM WILL BE RE-INSPECTED BY THE OWNER'S ENGINEER PRIOR TO APPROVAL FOR CERTIFICATE OF OCCUPANCY PURPOSES. THE CONTRACTOR MAY BE REQUIRED TO RE-CLEAN PIPES AND INLETS FOR THESE PURPOSES.

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SERGIO J. REYES — STATE OF FLORIDA — No. 47311 — PROFESSIONAL ENGINEER
Signature & Seal of Record:

Sergio J. Reyes, P.E. — Engineer
47311 — Certificate No.

Project No: 18-059

Project phase: COLUMBIA COUNTY SUBMITTAL

Project title: LAKE CITY BIRLEY CRS COLUMBIA COUNTY, FLORIDA

Sheet title: LEGENDS AND GENERAL NOTES

Designed: MD
Drawn: SLP
Checked: TAR
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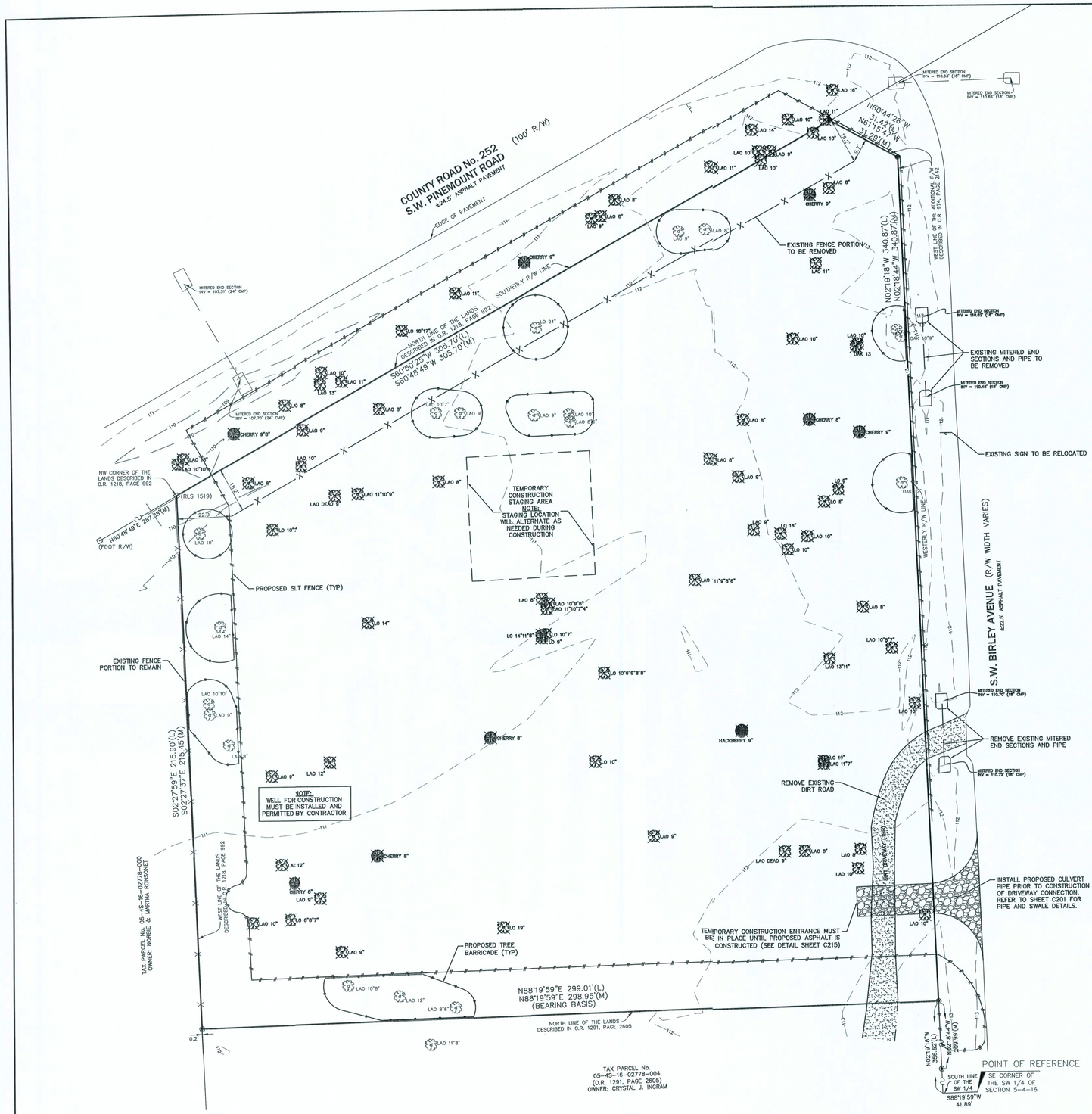
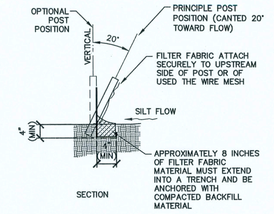
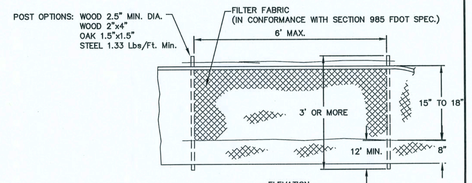
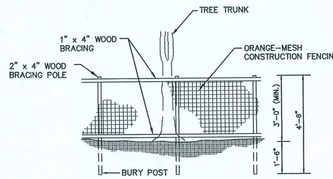



## TYPE III SILT FENCE DETAIL
N.T.S.




ELEVATION

NOTES:

1. TREE BARRICADES WILL BE BUILT BEFORE ANY SITE WORK IS UNDERTAKEN AND WILL REMAIN IN PLACE UNTIL THE LANDSCAPING IS PLANTED.
2. EACH BARRICADE MUST BE AT LEAST 3 FEET TALL, WITH CORNER POSTS OF 2" X 4" WOOD INSERTED AT LEAST ONE AND A HALF (1-1/2) FEET DEEP. THE TWO ROWS OF SIDE SLATS MUST BE 1" X 4" AND BE MARKED WITH PLASTIC RIBBONS OR MESH FENCING FOR VISIBILITY.
3. NO GRADING WITHIN FENCING. ANY ROOTS GREATER THAN 1" IN DIAMETER THAT ARE DAMAGED OR EXPOSED SHALL BE CLEANLY CUT AND COVERED OVER WITH SOIL.
4. NO CONSTRUCTION MATERIALS OR EQUIPMENT SHALL BE PERMITTED WITHIN CONSTRUCTION FENCING OR BEYOND THE CONSTRUCTION LIMITS.
5. THE AREA ENCLOSED MUST BE EQUAL TO THE DRIPLINE OF THE TREE, WHERE SUFFICIENT PROTECTION CAN BE DEMONSTRATED, THE REQUIRED MINIMUM UNDISTURBED AREA MAY BE REDUCED WITH COUNTY APPROVAL, TAKING INTO CONSIDERATION THE TYPE OF ACTIVITY, AND THE SPECIES, HEALTH, AND LOCATION OF TREES AND NATIVE VEGETATION WITHIN THE LANDSCAPE.

## TREE BARRICADE FENCING DETAIL
N.T.S.

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## LEGEND

| | |
|---|---|
| ////// | SILT FENCE |
| | TREE BARRICADE |
| (TBR) | EXISTING FEATURES TO BE REMOVED (TBR) |
| | LIMITS OF EXISTING ASPHALT PAVEMENT, CONCRETE AND/OR BUILDING TO BE REMOVED |
| LAO 9" | EXISTING TREE TO BE REMOVED |


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ZONING DEPARTMENT COLUMBIA COUNTY DRIVEWAY TO FLORIDA APPROVED

NORTH
SCALE: 1" = 20'
0 10 20 40
GRAPHIC SCALE

| No. | Date | Comment |
|---|---|---|
| | | |

SERGIO J. REYES LICENSE STATE OF FLORIDA PROFESSIONAL ENGINEER

Professional Engineer of Record:
No 47311

Sergio J. Reyes, P.E. — Engineer
47311 — Certificate No.

Project No: 18-059

Project phase: COLUMBIA COUNTY SUBMITTAL

Project title: LAKE CITY BIRLEY CRS COLUMBIA COUNTY, FLORIDA

Sheet title: DEMOLITION PLAN

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| Designed: | MD |
| Drawn: | SLP |
| Checked: | TAR |
| Date: | 03/15/19 |

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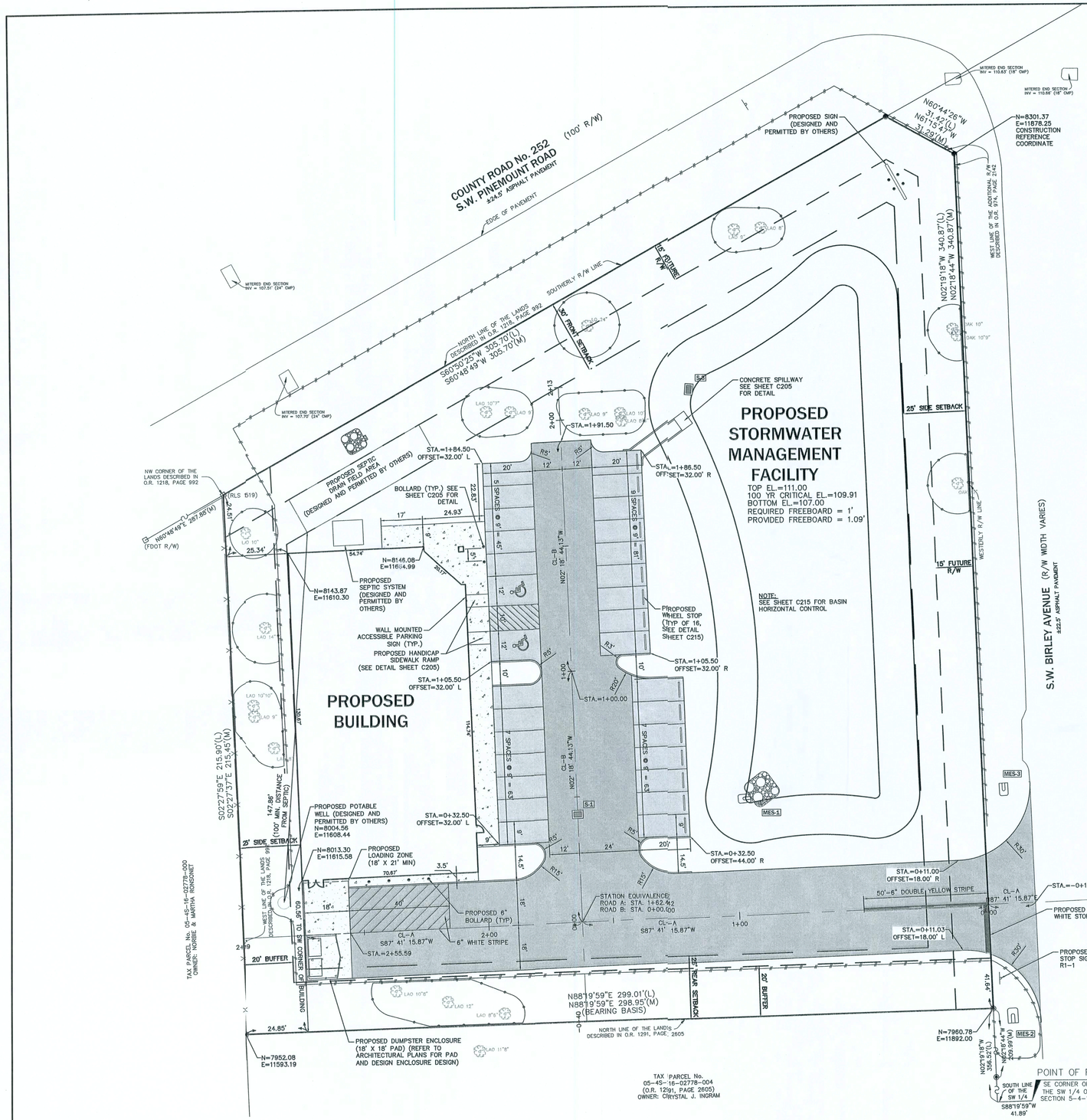


## GENERAL NOTES

1. ALL PARKING LOT DIMENSIONS AND RADII SHOWN ARE MEASURED FROM FACE OF CURB AND/OR THE EDGE OF PAVEMENT IF THERE IS NOT CURB PROPOSED. ALL RADIAL PARKING IS 9' MIN. WIDTH AT NARROWEST POINT.
2. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF LOCATION OF ALL EXISTING UTILITIES AND PROTECTION OF SAME DURING CONSTRUCTION.
3. ELECTRIC SERVICE TO BE COORDINATED WITH ENERGY PROVIDER.

## LEGEND

- SILT FENCE
- TREE BARRICADE
- LIMITS OF HEAVY DUTY ASPHALT PAVEMENT
- LIMITS OF STANDARD DUTY ASPHALT PAVEMENT
- LIMITS OF CONCRETE PAVEMENT AND SIDEWALKS
- LAO 11" — EXISTING TREE TO REMAIN

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ZONING DEPARTMENT COLUMBIA COUNTY, FLORIDA APPROVED

NORTH
SCALE: 1" = 20'
0 10 20 40
GRAPHIC SCALE

| No. | Date | Comment |
|---|---|---|
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SERGIO J. REYES LICENSE No. 47311 STATE OF FLORIDA PROFESSIONAL ENGINEER
Professional Engineer of Record:
03/15/19

Sergio J. Reyes, P.E. — Engineer
47311 — Certificate No.

Project No: 18-059

Project phase: COLUMBIA COUNTY SUBMITTAL

Project title: LAKE CITY BIRLEY CRS COLUMBIA COUNTY, FLORIDA

Sheet title: DIMENSION PLAN

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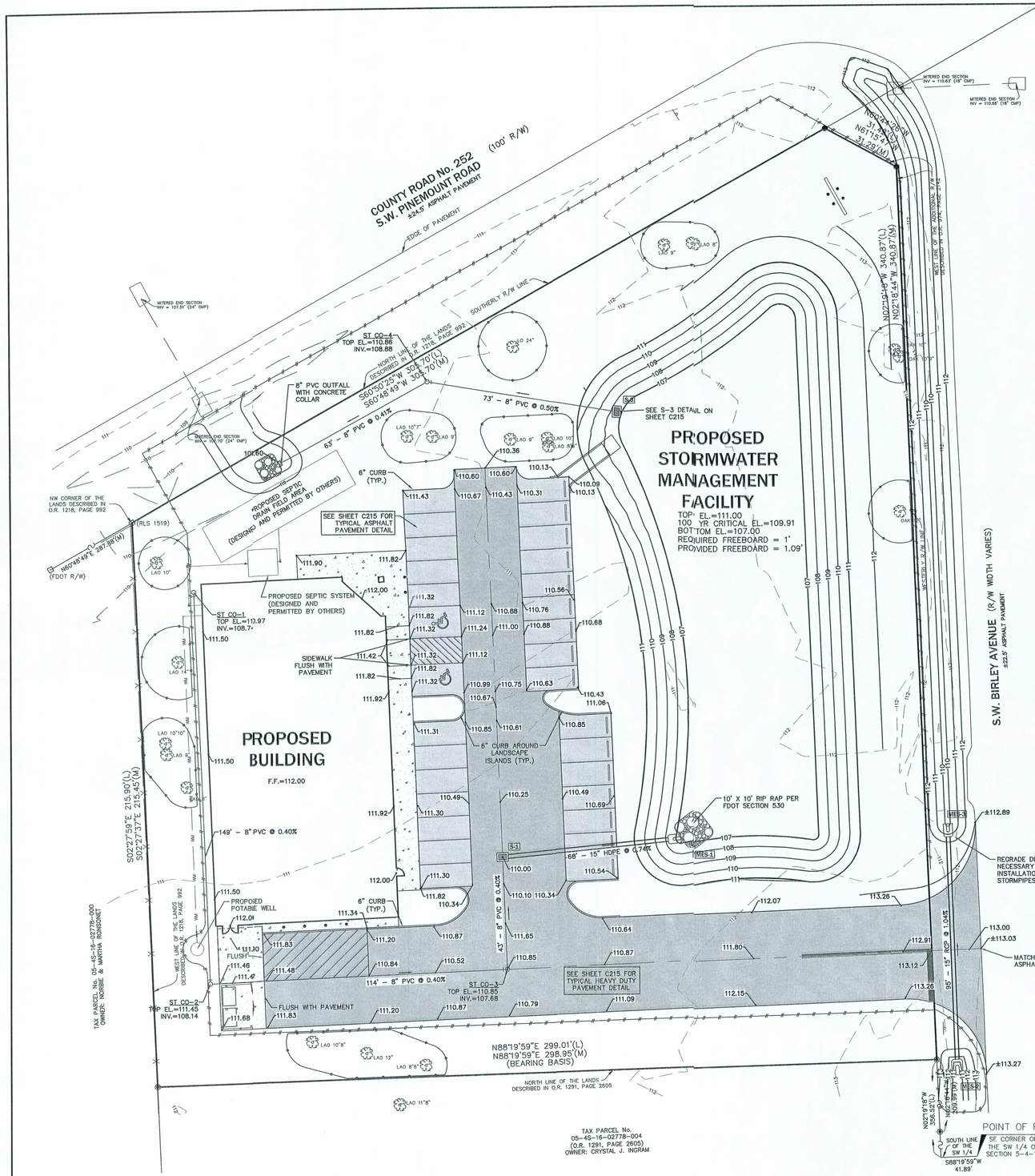


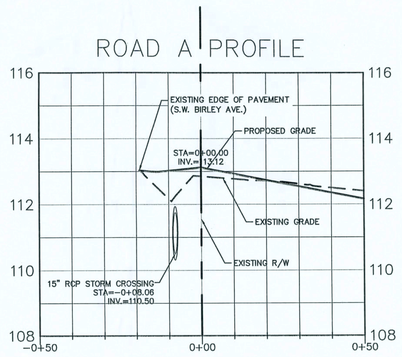

## LEGEND

- SILT FENCE
- TREE BARRICADE
- LIMITS OF HEAVY DUTY ASPHALT PAVEMENT
- LIMITS OF STANDARD DUTY ASPHALT PAVEMENT
- LIMITS OF CONCRETE PAVEMENT AND SIDEWALKS
- LAO 11" — EXISTING TREE TO REMAIN

| STORMWATER STRUCTURE SCHEDULE | | |
|---|---|---|
| STRUCTURE | STRUCTURE DATA | FDOT INDEX |
| S-1 TYPE-C INLET | TOP EL.=110.00<br>S 8" INV.=107.51<br>E 15" INV.=107.51 | 232 |
| S-3 TYPE-C INLET | TOP EL.=111.00<br>W 8" INV.=109.25 | 232 |

| MITERED END SECTION SCHEDULE | | |
|---|---|---|
| MES | PIPE INVERT | FDOT INDEX |
| MES-1 | 15" INV.=107.00 | 272 |
| MES-2 | 15" INV.=111.00 | 272 |
| MES-3 | 15" INV.=110.00 | 272 |

### DRIVEWAY CONNECTION TO S.W. BIRLEY AVENUE

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COLUMBIA COUNTY
FLOODWAY TO FLOODING
APPROVED

NORTH
SCALE: 1" = 20'
0 10 20 40
GRAPHIC SCALE

| No. | Date | Comment |
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SERGIO J. REYES LICENSE No 47311 STATE OF FLORIDA PROFESSIONAL ENGINEER
Professional Engineer of Record:
Sergio J. Reyes, P.E. 47311
Engineer Certificate No.

Project No: 18-059

Project phase: COLUMBIA COUNTY SUBMITTAL

Project title: LAKE CITY BIRLEY CRS COLUMBIA COUNTY, FLORIDA

Sheet title: PAVING, GRADING, AND DRAINAGE PLAN

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| Date: | 03/15/19 |

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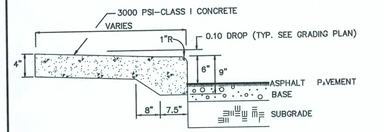


TYPICAL STEPUP SIDEWALK

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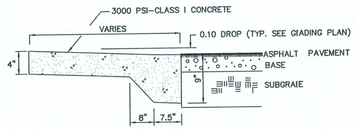
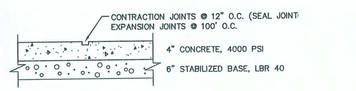



TYPICAL FLUSH SIDEWALK DETAIL

N.T.S.




TYPICAL CONCRETE DETAIL

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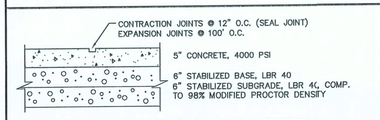


HEAVY DUTY PAVEMENT ALTERNATE DETAIL

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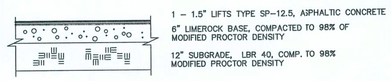


TYPICAL ASPHALT PAVEMENT DETAIL

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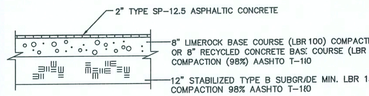


TYPICAL HEAVY DUTY PAVEMENT DETAIL

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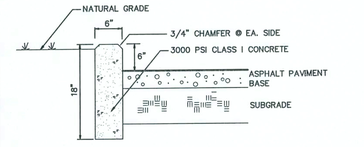
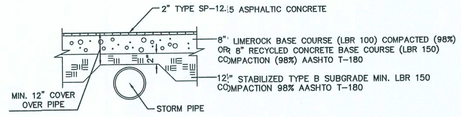



6" STANDARD CURB DETAIL

N.T.S.




LIMEROCK WEDGE OVEIR PROPOSED CULVERT
(WITHIN R/W)

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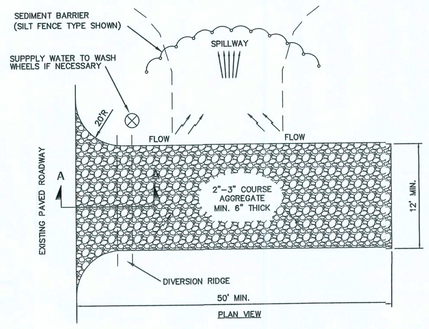


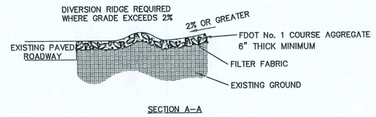


SECTION A-A

NOTE:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
4. USE SANDBAGS STRAW BALES OR OTHER APPROVED METHODS TO CHANNELIZE RUNOFF TO BASIN AS REQUIRED.

TYPICAL GRAVEL CONSTRUCTION ENTRANCE

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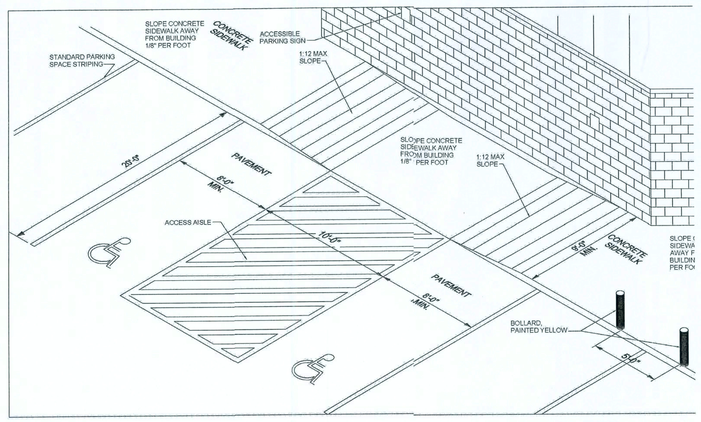


ACCESSIBLE PARKING DETAIL

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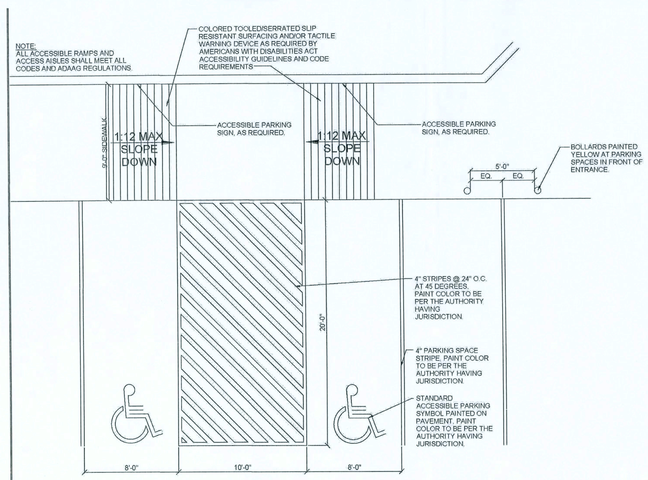


ACCESSIBLE PARKING DETAIL

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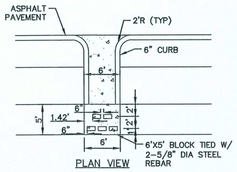
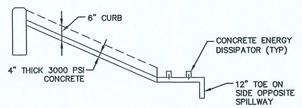



PLAN VIEW




PROFILE VIEW

CONCRETE SPILLWAY DETAIL

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## PAVING, GRADING AND DRAINAGE SPECIFICATIONS

1. GENERAL: ALL ROADWAY AND DRAINAGE CONSTRUCTION, INCLUDING MATERIALS, CONSTRUCTION TECHNIQUES, AND TECHNICAL STANDARDS, SHALL BE IN ACCORDANCE WITH THE LATEST F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE LATEST F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS.
2. ALL AREAS OF NEW CONSTRUCTION SHALL BE PREPARED AFTER SITE DEMOLITION. TOP SOIL REMAINING ONSITE MAY BE STOCKPILED FOR FINE GRADING IN LANDSCAPED AREAS, IF SUITABLE. THE CONTRACTOR SHALL FURNISH ALL FILL REQUIRED AND DISPOSE OF ALL EXCESS OR UNSUITABLE MATERIAL OFFSITE IN ACCORDANCE WITH ALL REGULATORY REQUIREMENTS.
3. ALL NEW ASPHALT PAVEMENT CONSTRUCTION SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
   A. EARTHWORK: FILL MATERIALS SHALL CONFORM TO AASHTO SOIL GROUPS A-1, A-3, OR A-2-4 AND SHALL BE PLACED IN 6"-12' LOOSE LIFTS AND COMPACTED TO 98% DENSITY USING MODIFIED PROCTOR METHOD (AASHTO T-180).
   B. SUBSOIL EXCAVATION: WHERE SUBSOIL EXCAVATION IS REQUIRED, UNSUITABLE MATERIALS SHALL BE REMOVED TO A DEPTH OF 18" BELOW THE LIMEROCK BASE AND BACKFILLED WITH CLEAN FILL.
   C. STABILIZED SUBGRADE: ALL STABILIZED MATERIAL SHALL BE TYPE 'B' CONFORMING TO SECTION 914-3 AND PLACED ACCORDING TO SECTION 160 IN ONE 12" MINIMUM COMPACTED LIFT. SUBGRADE SHALL BE STABILIZED TO A MINIMUM LBR VALUES AND DENSITIES AS SHOWN IN THE TYPICAL SECTIONS.
   D. BASE COURSE: ALL MATERIAL SHALL BE LIMEROCK CONFORMING TO SECTION 911 AND PLACED ACCORDING TO SECTION 200 IN ONE 6" MINIMUM COMPACTED LIFT OR DOUBLE COMPACTED LIFT. ALL BASE MATERIAL SHALL BE COMPACTED TO 98% DENSITY BY MODIFIED PROCTOR METHOD (AASHTO T-180). THE PRIME COAT SHALL CONFORM TC SECTION 300.
   E. ASPHALTIC CONCRETE: ALL ASPHALTIC CONCRETE MATERIAL SHALL BE AS PER DESIGN SECTIONS AND SHALL CONFORM TO SECTION 334. ALL ASPHALTIC CONCRETE CONSTRUCTION SHALL CONFORM TO SECTION 330.
4. ALL CONCRETE USED FOR CONSTRUCTION OF DRAINAGE STRUCTURES, SIDEWALKS, AND CURBING SHALL BE CLASS I CONFORMING TO SECTION 346.
5. REINFORCED CONCRETE PIPE SHALL CONFORM TO SECTION 941.
6. ALL PAVEMENT MARKINGS REQUIRED IN THE R/W SHALL BE THERMOPLASTIC AND INCLUDE RAISED PAVEMENT MARKERS, WHERE REQUIRED CONFOMING TO SECTION 711.
7. ALL PAVEMENT MARKING, SYMBOLS AND STRIPING WITHIN THE SITE SHALL MEET THE LATEST FLORIDA HANDICAP ACCESSIBILITY CODE. PAVEMENT MARKING SHALL BE 4" BLUE/WHITE (HANDICAP) OR WHITE (REGULAR) AND SHALL CONFORM TO THE LATEST F.D.O.T. AND M.U.T.C.D. STANDARDS.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A GEOTECHNICAL CONSULTANT TO PROVIDE A FIELD INVESTIGATION REPORT DELINEATING RECOMMENDATIONS FOR UNDERCUTTING AND/OR UNDERDRAINS. A COPY OF THIS REPORT SHALL BE FORWARDED TO THE OWNER AND ENGINEER FOR REVIEW AND APPROVAL PRIOR TO UNDERCUTTING OR INSTALLING UNDERDRAIN. THE CONTRACTOR SHALL NOT CONSTRUCT BASE COURSE UNTIL THE REPORT IS REVIEWED AND APPROVED BY THE OWNER ANC THE ENGINEER.
9. SOIL TESTING RESULTS SHALL BE PROVIDED FOR THE PAVEMENT CONSTRUCTION. TESTING RESULTS SHALL BE SUBMITTED FOR THE SUBGRADE AND BASE COURSE, IN ACCORDANCE WITH THE DESIGN SECTION. A MINIMUM OF 5 TEST LOCATIONS SHALL BE PROVIDED ONSITE. THE TESTING REPORT SHALL DENOTE THE TEST LOCATIONS. THE CONTRACTOR SHALL NOT PROCEED TO THE SUBSEQUENT PAVEMENT SECTION UNTIL TESTING -RESULTS ARE APPROVED FOR PREVOUS SECTION. ALL TESTING REQUIRED WTHIN THE COUNTY R/W SHALL BE COORDINATED WITH THE COUNTY INSPECTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTING COST.
10. LANDSCAPING: FINAL GRADING IN OPEN AREAS AND LANDSCAPE ISLANDS SHALL BE COORDINATED WTH THE LANDSCAPE CONTRACTOR AND THE OWNER. THE CONTRACTOR SHALL ALSO COORDINATE THE PLACEMENT OF ANY IRRIGATION AND ELECTRICAL CONDUIT SLEEVES DURING CONSTRVCTION.
11. ROOF RUNOFF WILL BE DIRECTED TO THE STORMWATER SYSTEM AS SHOWN ON THE PLANS.
12. REMOVAL OF ALL CONSTRUCTION DEBRIS, LIMEROCK, EXCESS OF BUILDERS SAND, CONCRETE AND MORTAR DEBRIS, EXISTING WEEDS AND GRASSES, AND ALL FOREIGN MATERIALS IN THE PLANTING BED AND SOD AREAS IS THE RESPONSIBILITY OF THE SITE WORK CONTRACTOR. SOIL IN AREAS TO BE LANDSCAPED SHALL BE UNCOMPACTED, SUITABLE FOR ROOT GROWTH WITH APPROPRIATE AMOUNTS OF ORGANIC MATTER, AND OF pH 5.5-6.5.
13. TREE BARRICADES MUST REMAIN IN PLACE AND IN THE DIMENSIONS SHOWN ON THE PLAN UNTIL LANDSCAPING BEGINS. SEE NOTE ON SHEET C6.20 AND THE DETAIL ON THE LANDSCAPE PLAN.

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COLUMBIA COUNTY
GATEWAY TO FLORIDA
APPROVED

SCALES:
AS SHOWN

| No. | Date | Comment |
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SERGIO J. REYES
LICENSE
No. 47311
STATE OF FLORIDA
PROFESSIONAL ENGINEER
ONAL ENGINEER
3/15/19

Professional Engineer of Record:

Sergio J. Reyes, P.E. 47311
Engineer Certificate No.

Project No: 18-059

Project phase:
COLUMBIA COUNTY SUBMITTAL

Project title:
LAKE CITY BIRLEY CRS
COLUMBIA COUNTY,
FLORIDA

Sheet title:
PAVING, GRADING, AND
DRAINAGE DETAILS

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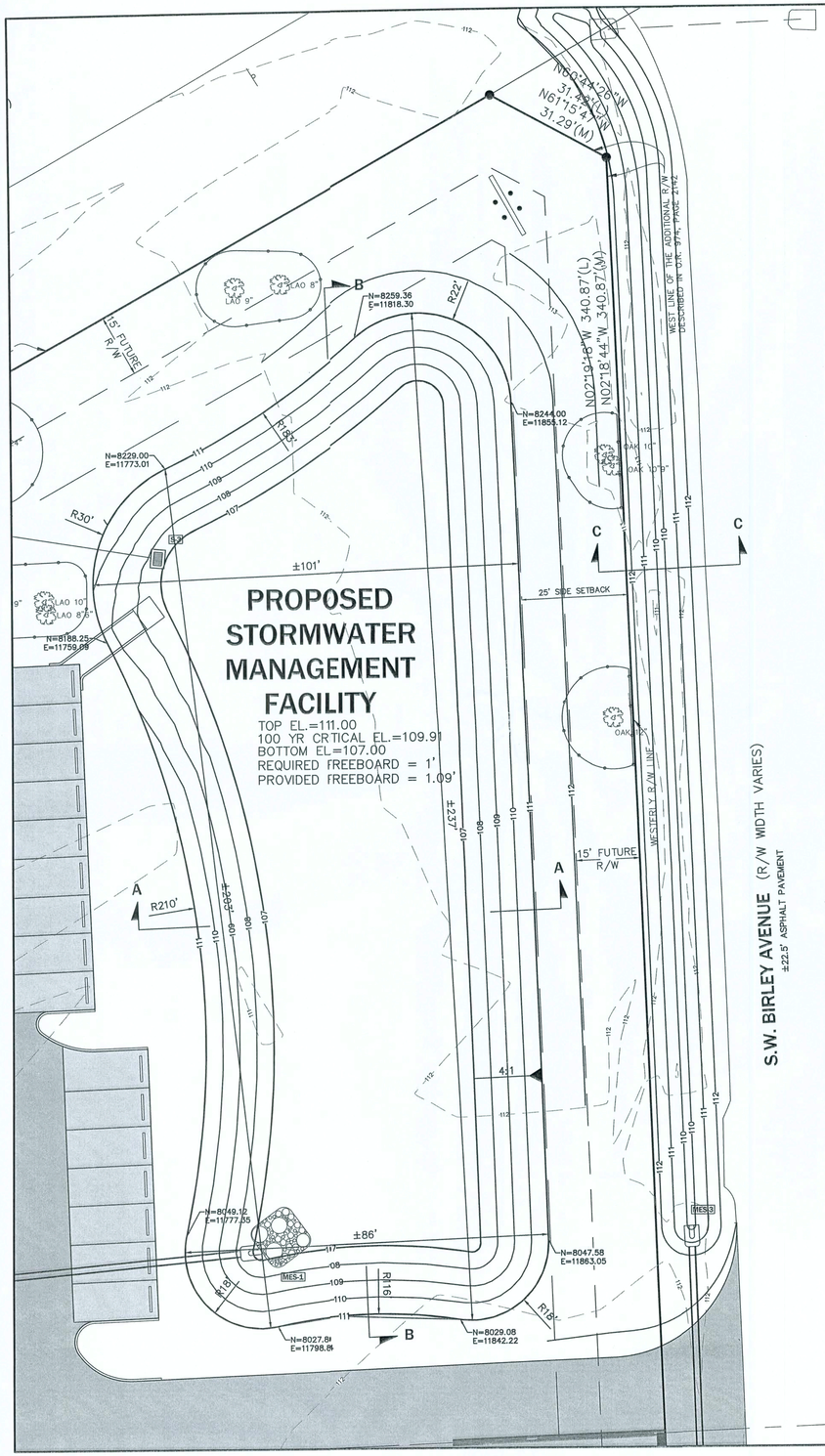
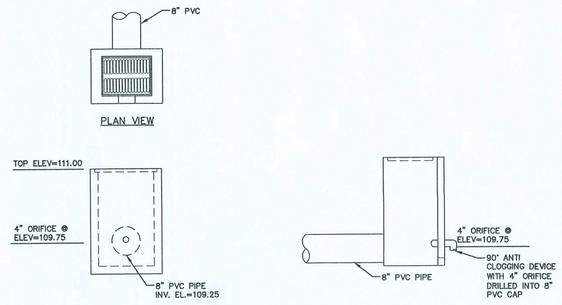
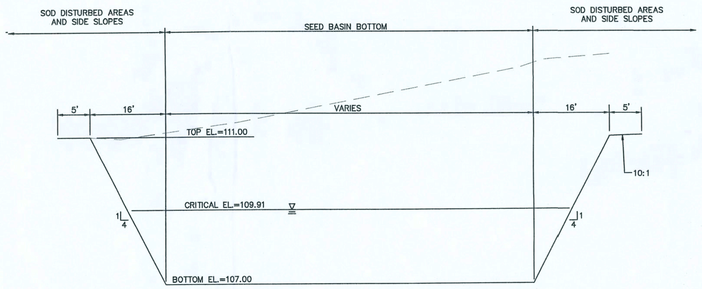
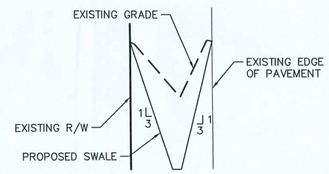


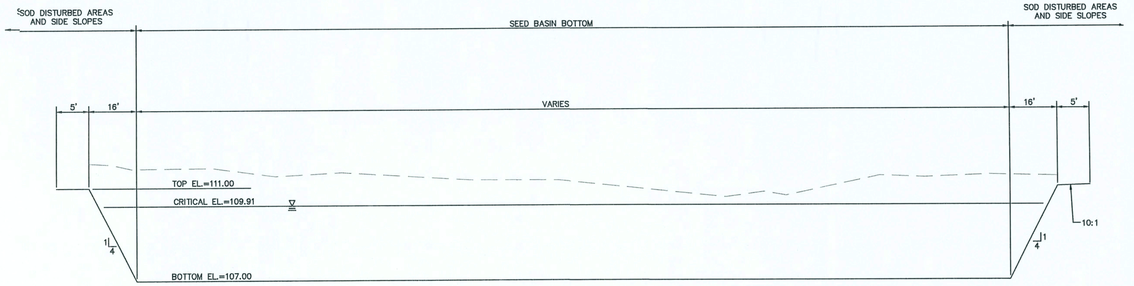

**S-3 OUTFALL DETAIL**
N.T.S.




**BASIN TYPICAL SECTION A-A**
N.T.S.




**SWALE TYPICAL SECTION C-C**
N.T.S.




**BASIN TYPICAL SECTION B-B**
N.T.S.

## ENGINEER'S CERTIFICATION

1. ENGINEER'S CERTIFICATION:

   I HEREBY CERTIFY THAT THE DESIGN OF THE STORMWATER MANAGEMENT SYSTEM FOR THE PROJECT KNOWN AS LAKE CITY BIRLEY CRS MEETS ALL THE REQUIREMENTS AND HAS BEEN DESIGNED SUBSTANTIALLY IN ACCORDANCE WITH THE COLUMBIA COUNTY STORMWATER MANAGEMENT ORDINANCE.

SERGIO REYES, P.E.

## MAINTENANCE NOTES

1. MAINTENANCE RESPONSIBILITY:

   THE CURRENT PROPERTY OWNER WILL BE THE ENTITY RESPONSIBLE FOR THE MAINTENANCE OF THE EXISTING STORMWATER MANAGEMENT SYSTEM.

2. MAINTENANCE PLAN:

   A. BASINS SHALL BE MOWED REGULARLY TO AVOID EXCESSIVE VEGETATIVE GROWTH. MOWING SCHEDULE SHOULD BE MONTHLY DURING WINTER MONTHS AND MORE FREQUENTLY (BIWEEKLY) DURING SUMMER MONTHS.

   B. BASIN SHALL BE CLEANED OUT ANNUALLY OF ANY ACCUMULATED SEDIMENTATION BUILDUP. IF THE BASINS ARE SHOWING EXCESSIVE SEDIMENTATION ACCUMULATION AT THE BASIN BOTTOM, THE BASIN BOTTOM SHALL BE SCRAPED CLEAN MORE OFTEN AS THE CONDITION DICTATES.

   C. BASIN SIDE SLOPES SHALL BE MAINTAINED WITH A GOOD STAND OF GRASS. SEASONAL GRASSES SHALL BE PLANTED TO AVOID EROSION (WINTER RYE, SUMMER MILLET).

   D. BASIN THAT DO NOT DRAWDOWN PROPERLY AND MAINTAIN STANDING WATER FOR AN EXTENDED PERIOD OF TIME MAY REQUIRE REMEDIAL ACTION. THE ENGINEER SHALL BE NOTIFIED TO HELP COORDINATE REMEDIAL ACTION IN THE EVENT THIS OCCURS.

   E. THE REQUIRED LANDSCAPING SHALL BE MAINTAINED IN A SOUND CONDITION AT ALL TIMES. ANY DEAD LANDSCAPING MATERIALS SHALL BE REPLACED IMMEDIATELY TO ASSURE PUBLIC SAFETY.

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ZONING DEPARTMENT COLUMBIA COUNTY FLORIDA DRIVEWAY TO FLORIDA APPROVED

NORTH
SCALE: 1" = 15'
0 7.5 15 30
GRAPHIC SCALE

| No. | Date | Comment |
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Professional Engineer of Record:
SERGIO J. REYES No. 47311 STATE OF FLORIDA PROFESSIONAL ENGINEER

Sergio J. Reyes, P.E. — Engineer
47311 — Certificate No.

Project No: 18-059

Project phase: COLUMBIA COUNTY SUBMITTAL

Project title: LAKE CITY BIRLEY CRS COLUMBIA COUNTY, FLORIDA

Sheet title: BASIN DETAILS

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| Designed: MD | Sheet No.: C215 |
| Drawn: SLP | |
| Checked: TAR | |
| Date: 03/15/19 | |

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THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) MAY BEMODIFIED AND UPDATED DURING CONSTRUCTION AS A RESULT OF WEATHER, UNPREDICTABLE EVENTS AND SITE INSPECTIONS.

THIS DOCUMENT WAS PREPARED IN ORDER TO BE IN COMPLIANCE WITH CHAPTER 62-621.300 (4) OF THE FLORIDA ADMINISTRATIVE CODE, WHICH PERTAINS TO THE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES. THE ADMINISTRATIVE CODE GRANTS THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) THE AUTHORITY TO REGULATE POINT SOURCE DISCHARGES OF STORM-WATER FROM CONSTRUCTION SITES. THIS DOCUMENT ESTABLISHES A STORMWATER POLLUTION PREVENTION PLAN FOR THE SITE AND IS ORGANIZED TO CORRESPOND TO PART V OF DEP DOCUMENT No. 62-621.300 (4) (A) FDEP FORM 62-281.300 (4) (B) IS TO BE SUBMITTED IN CONJUNCTION WITH THIS DOCUMENT.

## I. PROJECT INFORMATION:

PROJECT: SITE PLANS FOR COMMERCIAL RETAIL STORE
COUNTY: COLUMBIA COUNTY, FLORIDA
SECTION/TOWNSHIP/RANGE: S 5 , T 4 SOUTH, R 16 EAST
COUNTY PARCEL NO.: 05-4S-16-02778-002
LATITUDE AND LONGITUDE: 30.163391, 82.736119
STREET ADDRESS: 2770 SW BIRLEY AVENUE LAKE CITY, FL 32024
PROJECT AREA: 2.01
APPROXIMATE AREA TO BE DISTURBED BY CONSTRUCTION:
2.01 Ac.

## II. SITE DESCRIPTION:

1. THE PROPOSED DEVELOPMENT CONSISTS OF THE CONSTRUCTION OF A COMMERCIAL RETAIL STORE WITH ASSOCIATED PAVING, DRAINAGE, AND UTILITY IMPROVEMENTS.

   AT THE PREDEVELOPMENT CONDITIONS, THE PROJECT AREA CONSISTS OF ONE 1.85 AC DRAINAGE AREA WHICH SHEET FLOWS TO THE NORTHWEST.

   AT POST-DEVELOPMENT CONDITIONS, THE DRAINAGE AREA WILL BE THE SAME AS IN PREDEVELOPMENT CONDITIONS AS SHOWN IN THE DRAINAGE DESIGN NOTES. DRAINAGE AREA 1 WILL SHEET FLOW (BUILDING WILL BE PIPED) TO THE PROPOSED RETENTION BASIN. THE PROPOSED BASIN WILL DISCHARGE TO THE NORTHWEST AS IN PREDEVELOPMENT CONDITIONS.

2. THE SOIL CONDITIONS WERE INVESTIGATED AND SUMMARIZED IN THE SOILS REPORT PREPARED BY GSE AND CAN BE FOUND IN THE DRAINAGE DESIGN NOTES UNDER ATTACHMENT A.

3. EXISTING AND FUTURE DRAINAGE PATTERNS ARE SHOWN ON THE DRAINAGE DESIGN NOTES FOR PRE-DEVELOPMENT CONDITIONS AND POST-DEVELOPMENT CONDITIONS. OUTFALLS, AND STORMWATER BASINS ARE SHOWN IN THE DRAINAGE PLAN AND THE DETAIL PLAN.

4. SEQUENCE OF CONSTRUCTION:

   A. PRIOR TO CONSTRUCTION, SILT FENCING AND TREE PROTECTION BARRICADES SHALL BE INSTALLED AND ALL EXISTING DRAINAGE STRUCTURES SHALL BE PROTECTED IN ACCORDANCE WITH THE FDOT FLORIDA EROSION AND SEDIMENTATION CONTROL MANUAL.

   B. THE CONSTRUCTION ENTRANCE(S) WILL BE STABILIZED TO MINMIZE THE CREATION OF DUST AND OFF SITE TRACKING OF SEDIMENTS.

   C. THE SITE SHALL BE CLEARED AND GRUBBED OF UNDESIRABLE VEGETATION.

   D. THE UNDERGROUND UTILITIES AND STORMWATER PIPING WILL BE INSTALLED AND CONNECTED TO EXISTING STRUCTURES.

   E. THE SITE WILL BE ROUGHLY GRADED. IF SUITABLE, THE EXCAVATED MATERIAL MAY BE USED AS FILL FOR ON-SITE GRADING. THE ROADWAYS SHALL BE GRADED. (THE BASIN AREA SHALL BE STABILIZED AS SPECIFIED IN THE PLANS.)

   F. ROADWAYS AND PARKING LOTS WILL BE COMPACTED AND A LIMEROCK BASE WILL BE ESTABLISHED FOLLOWED BY AN OVERLAY OF ASPHALTIC CONCRETE AFTER BUILDINGS ARE CONSTRUCTED.

   G. UPON SIGNIFICANT COMPLETION OF CONSTRUCTION, THE STORMWATER SYSTEM SHALL BE FLUSHED OUT TO REMOVE ACCUMULATED DEBRIS AND SEDIMENT.

   H. ALL DISTURBED AREAS WITHIN THE CONSTRUCTION AREA SHALL BE COMPLETELY GRASSED AND/OR LANDSCAPED. EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO REMOVAL OF SILT FENCING AND OTHER EROSION CONTROL APPLICATIONS.

## III. CONTROLS:

THE CONTROLS SHALL BE IMPLEMENTED AND MAINTAINED DURING THE ENTIRE CONSTRUCTION OF THE PROJECT. IF SITE CONDITIONS ARE SUCH THAT ADDITIONAL CONTROL MEASURES ARE REQUIRED THAN WHAT IS SPECIFIED IN THE EROSION AND SEDIMENTATION CONTROL PLAN, THEN THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL BEST MANAGEMENT PRACTICES NECESSARY.

1. THE CONSTRUCTION ACCESS SHALL BE STABILIZED WITH GRAVEL AND TEMPORARY VEGETATION TO PREVENT SILT LEAVING THE SITE.
2. TREE BARRICADES SHALL BE IMPLEMENTED BEFORE CLEARING AND GRUBBING OF ANY OF THE WORK AREAS.
3. BEFORE CLEARING, SILT FENCES SHALL BE INSTALLED AROUND THE PERIMETER OF THE CONSTRUCTION AND AROUND THE WETLAND(S) AND/OR BASIN(S) AS SHOWN IN THE PLANS. ALL EXISTING STORM DRAINAGE SWALES AND INLETS SHALL BE PROTECTED PER THE FDOT FLORIDA EROSION AND SEIMENTATION CONTROL MANUAL.
4. AFTER CLEARING BUT BEFORE EXCAVATION AND GRADING, TEMPORARY BERMS AND SWALES SHALL BE CONSTRUCTED AS REQUIRED TO DIVERT THE FLOW INTO THE CORRESPONDING STORMWATER BASIN.
5. DURING CONSTRUCTION OF PAVING AND BUILDINGS, EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED AS REQUIRED.
6. ALL DISTURBED AREAS WITHIN THE CONSTRUCTION SITE SHALL BE COMPLETELY LANDSCAPED AND/OR GRASSED. FINAL STABILIZATION (INCLUDING SEEDING, MULCHING, SODDING OR RIPRAP) SHALL BE INSTALLED AS REQUIRED. GRASS SEEDING RATES AND MIXTURES SHALL BE PER FDOT INDEX 104. EVIDENCE OF GROWTH MUST BE PRESENT PRIOR TO REMOVAL OF SILT FENCING AND OTHER EROSION CONTROL APPLICATIONS AND PRIOR TO FINAL RELEASE.

## IV. EROSION AND SEDIMENTATION CONTROLS:

### STABILIZATION PRACTICES

1. ALL ENTRANCES TO THE SITE SHALL BE STABILIZED BEFORE CONSTRUCTION AND FURTHER DISTURBANCE BEGINS. GRAVEL PAD SHALL PROVIDE STABILIZATION AND MINIMIZE THE AMOUNT OF SEDIMENT LEAVING THE SITE. MAINTENANCE OF THE ENTRANCE SHALL INCLUDE SWEEPING OF THE AREA ADJACENT TO THE ENTRANCE. STONE AND GRAVEL MIGHT NEED TO BE PERIODICALLY ADDED TO MAINTAIN THE EFFECTIVENESS OF THE ENTRANCE(S).
2. TREE BARRICADES SHALL BE INSTALLED AROUND THE TREES AS SHOWN IN THE DETAIL PLAN TO PROTECT THE EXISTING VEGETATION.
3. MULCH SHALL BE PLACED IN THE AREAS REQUIRED TO PREVENT EROSION FROM STORMWATER RUNOFF AND THE AREAS SHOWN ON THE PLANS. MULCH SHALL BE ANCHORED TO RESIST WIND DISPLACEMENT AND SHALL BE INSPECTED AFTER EVERY RAINSTORM TO IDENTIFY AREAS WHERE MULCH HAS BEEN WASHED OUT OR LOOSENED. THESE AREAS SHALL HAVE MULCH COVER REPLACEMENT.
4. SEEDING SHALL BE STARTED AFTER GRADING HAS BEEN FINISHED ON THE AREAS SHOWN IN THE PLANS. SEEDED AREAS SHOULD BE INSPECTED FOR FAILURE TO ESTABLISH, AND NECESSARY REPAIRS AND RESEEDING SHOULD BE MADE AS SOON AS POSSIBLE. ADDITIONAL SEEDING AND MULCH MAY BE REQUIRED AS NECESSARY TO PREVENT EROSION DURING OR AFTER CONSTRUCTION HAS FINISHED.
5. SOD SHALL BE INSTALLED IN THE AREAS SHOWN IN THE PLANS. SOD SHALL BE PEGGED IF INSTALLED ON SLOPES GREATER THAN 3:1. SODDED AREAS SHALL BE MAINTAINED AND INSPECTED TO ENSURE SUCCESSFUL ESTABLISHMENT.

### SEDIMENTATION PRACTICES

1. SILT FENCES SHALL BE INSTALLED IN THE AREAS SHOWN IN THE PLANS AND AS REQUIRED TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA. SILT FENCES SHALL BE INSPECTED FOR EACH RAINFALL EVENT TO ENSURE THAT THERE ARE NO GAPS OR TEARS. IF GAPS OR TEARS ARE FOUND THE FABRIC SHOULD BE REPAIRED OR REPLACED. SEDIMENT REMOVAL SHALL BE PART OF THE REGULAR MAINTENANCE. SILT FENCES SHALL REMAIN IN PLACE UNTIL CONSTRUCTION HAS FINISHED AND DISTURBED AREAS ARE PERMANENTLY STABILIZED.
2. DIVERSION SWALES, IF REQUIRED, SHALL BE CONSTRUCTED BEFORE MAJOR LAND DISTURBANCE OF THE RECEIVING BASIN. DIVERSION SWALES SHALL BE STABILIZED AFTER CONSTRUCTION TO MAINTAIN ITS EFFICIENCY.
3. INLETS SHOULD BE TEMPORARILY PROTECTED TO PREVENT SEDIMENT ENTERING THE INLET. BARRIERS WILL CATCH SOIL, DEBRIS AND SEDIMENT AT THE ENTRANCE OF THE INLET.
4. OUTFALL STRUCTURES SHALL HAVE SILT FENCES TO PREVENT SILT FROM ENTERING THE STORMWATER BASINS AND SHALL BE STABILIZED AS REQUIRED TO PREVENT EROSION FROM WASHOUTS.

## V. STORMWATER MANAGEMENT:

1. THE PROPOSED PROJECT OBTAINED AN ENVIRONMENTAL RESOURCE PERMIT FROM SUWANNEE RIVER WATER MANAGEMENT DISTRICT (SRWMD) FOR THE CONSTRUCTION AND OPERATION OF A STORMWATER TREATMENT SYSTEM AND CONTROLS. THE PROPOSED SYSTEM (AS SHOWN ON THE PLANS) INCLUDED THE USE OF THE BEST MANAGEMENT PRACTICES (BMP) CONSISTENT WITH THE APPLICABLE REQUIREMENTS OF RULE 40C-42 OF THE DISTRICT. THE OWNER AND/OR THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE STORMWATER TREATMENT SYSTEM AND CONTROLS UNTIL CONSTRUCTION ACTIVITIES ARE COMPLETED AND FINAL STABILIZATION HAS BEEN ACCOMPLISHED. HOWEVER, THE OWNER AND/OR AN ENTITY SIMILAR TO A HOMEOWNERS ASSOCIATION SHALL BE RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE STORMWATER SYSTEM IN PERPETUITY, IN ACCORDANCE WITH THE REQUIREMENTS OF THE ENVIRONMENTAL RESOURCE PERMIT.
2. TO TREAT AND CONTROL THE STORMWATER PRODUCED BY THE PROPOSED DEVELOPMENT, THE PROJECT REQUIRES THE INSTALLATION AND CONSTRUCTION OF THE FOLLOWING BMP'S: ONE DRY RETENTION BASIN FOR TREATMENT AND ATTENUATION. THE SITE HAS BEEN DESIGNED TO SHEET FLOW TO THE PROPOSED BASIN (WITH THE EXCEPTION OF THE BUILDING BEING PIPED DIRECTLY INTO THE BASIN). THE STORMWATER SYSTEM PROVIDES TREATMENT TO THE RUNOFF AS REQUIRED BY THE DISTRICT AND STATE RULES USING THE GUIDELINES CONTAINED IN THE SRWMD HANDBOOK.

## VI. CONTROLS FOR OTHER POTENTIAL POLLUTANTS:

1. WASTE DISPOSAL: NO SOLID MATERIALS, INCLUDING CONSTRUCTION MATERIALS, SHALL BE DISCHARGED TO SURFACE WATERS AND ARE NOT AUTHORIZED UNDER THE ISSUED ENVIRONMENTAL RESOURCE PERMIT.
2. THE USE OF GRAVEL AND CONTINUING SWEEPING ACTIVITIES AT THE ENTRANCE OF THE SITE WILL CONTROL THE TRACKING OF SEDIMENT AND DUST LEAVING THE SITE.
3. THE PROPOSED DEVELOPMENT WILL PROVIDE WATER AND SEWER SYSTEM BY ON SITE WELL AND SEPTIC SYSTEM.
4. ANY APPLICATION OF FERTILIZERS AND PESTICIDES NECESSARY TO ESTABLISH AND MAINTENANCE OF VEGETATION DURING CONSTRUCTION AND THROUGH PERPETUITY MAINTENANCE SHALL FOLLOW THE MANUFACTURERS RECOMMENDATIONS AND THE APPLICABLE RULES OF THE STATE OF FLORIDA.
5. ANY TOXIC MATERIALS REQUIRED DURING CONSTRUCTION SHALL BE PROPERLY STORED, DISPOSED OF AND CONTRACTOR AND/OR OWNER SHALL PROVIDE THE APPROPRIATE PERMITS FROM THE LOCAL OR STATE AGENCIES.

## VII. APPROVED STATE OR LOCAL PLANS:

1. ALL THE SEDIMENT AND EROSION CONTROLS THAT ARE LISTED IN THE SITE PLAN AS APPROVED BY THE SJRWMD ARE INCLUDED IN THIS STORMWATER POLLUTION PREVENTION PLAN (SEE ITEM III AND IV).
2. THIS STORMWATER POLLUTION PREVENTION PLAN SHALL BE AMENDED IF REQUIRED BY ANY LOCAL OR STATE AGENCY OR AS REQUIRED BY UNFORESEEABLE CONDITIONS AND THE OWNER SHALL SUBMIT A RE-CERTIFICATION TO THE NPDES STATE OFFICE THAT THE PLAN HAS BEEN AMENDED TO ADDRESS THOSE CHANGES.

## VIII. MAINTENANCE:

THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE, INSPECTION SCHEDULE, AND REPAIRS OUTLINED IN THIS PLAN. MAINTENANCE SHALL CONTINUE THROUGHOUT THE PROJECT UNTIL WORK IS COMPLETE. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AFTER CONSTRUCTION IS COMPLETE.

IN ADDITION TO THE ITEMS MENTIONED IN THE PREVIOUS SECTIONS, THE CONTRACTOR SHALL INITIATE ANY REPAIRS WITHIN 24 HOURS OF BEING REPORTED. IN THE EVENT THAT THE BASINS DO NOT PERFORM PROPERLY OR IF A SINKHOLE DEVELOPS, THE PROJECT ENGINEER SHALL BE NOTIFIED TO ASSIST IN COORDINATING REMEDIAL ACTION.

1. MAINTENANCE WOULD BE DIVIDED IN ROUTINE MAINTENANCE AND REPAIR MAINTENANCE. ALL STORMWATER BMP'S SHOULD BE INSPECTED FOR CONTINUED EFFECTIVENESS AND STRUCTURAL INTEGRITY ON A REGULAR BASIS. THE SYSTEMS SHOULD BE CHECKED AFTER EACH STORM EVENT IN ADDITION TO REGULARLY SCHEDULED INSPECTIONS.
2. ROUTINE MAINTENANCE REQUIREMENTS SHOULD BE INCLUDED IN THE INSPECTOR CHECKLIST TO AID THE INSPECTOR IN DETERMINING WHETHER A BMP'S MAINTENANCE IS ADEQUATE OR NEEDS A REVISION. INSPECTORS SHALL KEEP RECORD OF MAINTENANCE, ROUTINE OR REPAIR, TO PROVIDE EVIDENCE OF AN EFFICIENT INSPECTION AND MAINTENANCE.
3. SIDE ENTRANCES: MAINTENANCE SHALL INCLUDE REPLACEMENT OF GRAVEL AND CLEANING THE SOIL THAT IS TRACKED OFFSITE FOR PROPER DISPOSAL.
4. TREE BARRICADES: MAINTENANCE SHALL INCLUDE INSPECTION OF MESH AND POSTS AND REPAIR OR REPLACEMENT OF DAMAGED VEGETATION.
5. SILT FENCES: MAINTENANCE SHALL INCLUDE SEDIMENT REMOVAL AND INSPECTION TO ENSURE PROPER ANCHORING AND THAT NO TEARING OR GAPS HAVE OCCURRED. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF SILT FENCE.
6. DIVERSION SWALES: MAINTENANCE SHALL INCLUDE INSPECTION AFTER EVERY RAINFALL EVENT AND ONCE EVERY TWO WEEKS BEFORE FINAL STABILIZATION. THEY SHOULD BE CLEARED OF SEDIMENT AND MAINTAIN VEGETATIVE COVER.
7. TEMPORARY BERMS: MAINTENANCE SHALL INCLUDE REMOVAL OF DEBRIS, TRASH SEDIMENT AND LEAVES. SIDES OF THE BERM SHALL BE INSPECTED FOR EROSION AFTER EACH STORM EVENT.
8. MULCHING: ROUTINE MAINTENANCE SHALL INCLUDE REPLACEMENT PERIODICALLY.
9. SEEDING: ROUTINE MAINTENANCE SHALL INCLUDE RESEEDING OF AREAS THAT FAILED TO ESTABLISH.
10. SODDING: ROUTINE MAINTENANCE SHALL INCLUDE WATERING AND MOWING. REPLACEMENT OF GRASS MAY BE NECESSARY IF COVER IS NOT FULLY ESTABLISHED.
11. INLETS: ROUTINE MAINTENANCE SHALL INCLUDE INSPECTION AFTER EVERY STORM EVENT AND MIGHT INCLUDE REMOVAL OF ACCUMULATED SEDIMENT.
12. OUTFALL STRUCTURES: ROUTINE MAINTENANCE SHALL INCLUDE INSPECTION AFTER EVERY STORM EVENT TO ASSURE NO EROSION OR SCOUR HAS OCCURRED.

## IX. INSPECTIONS:

1. THE OWNER AND /OR CONTRACTOR SHALL PROVIDE QUALIFIED PERSONNEL TO INSPECT ALL POINTS OF POTENTIAL DISCHARGE FROM THE PROJECT SITE FOR DISTURBED AREAS, THE EROSION AND SEDIMENTATION CONTROLS AND BMP'S AS LISTED IN THIS PLAN. THE INSPECTION SHALL BE PERFORMED DURING CONSTRUCTION AND BEFORE FINAL STABILIZATION, ONCE EVERY SEVEN-CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS GREATER THAN 0.50 INCHES. AFTER FINAL STABILIZATION AND BEFORE FINISH OF CONSTRUCTION THE INSPECTION SHALL BE CONDUCTED ONCE EVERY MONTH.
2. THE CONTRACTOR SHALL INSTALL A RAIN GAUGE AT THE SITE TO MONITOR AND DOCUMENT RAINFALL EVENTS IN EXCESS OF 0.50 INCHES.
3. ALL DISTURBED AREAS AND AREAS USED FOR MATERIALS STORAGE SHALL BE INSPECTED FOR POLLUTANTS ENTERING THE STORMWATER SYSTEM. THE STORMWATER MANAGEMENT SYSTEM AND EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE INSPECTED TO ENSURE THEY ARE OPERATING CORRECTLY. LOCATIONS WHERE VEHICLES ENTER AND LEAVE THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING.
4. REPAIR OR MAINTENANCE NEEDED TO ASSURE PROPER OPERATION OF THE STORMWATER POLLUTION PREVENTION PLAN SHALL BE DONE IN A TIMELY MANNER BUT NO LATER THAN 7 CALENDAR DAYS FOLLOWING THE INSPECTION.
5. A REPORT SHALL BE KEPT OF EACH INSPECTION FOR THREE YEARS AFTER FINAL STABILIZATION AND SHALL INCLUDE THE DATES OF EACH INSPECTION, THE SCOPE OF THE INSPECTION, MAJOR OBSERVATIONS, ANY REPAIR AND/OR MAINTENANCE REQUIRED AND ANY INCIDENT OF NON-COMPLIANCE. IF THE REPORT DOES NOT CONTAIN ANY INCIDENTS OF NON-COMPLIANCE, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE FACILITY HAS BEEN IN COMPLIANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN AND THE NPDES PERMIT. THE REPORT SHALL INCLUDE THE NAME AND QUALIFICATIONS OF THE INSPECTOR AND SHALL BE SIGNED IN ACCORDANCE TO FDEP RULE 62-621.300, PART VII.C. A COPY OF THE CONSTRUCTION INSPECTION FORM IS INCLUDED ON THIS STORMWATER POLLUTION PREVENTION PLAN SHEET. A COPY SHALL BE RETAINED AT THE CONSTRUCTION SITE FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.

## X. NON-STORMWATER DISCHARGES:

1. THE FOLLOWING NON-STORMWATER DISCHARGES MIGHT BE COMBINED WITH STORMWATER AND WOULD BE AUTHORIZED AS PART OF THIS PERMIT: FIRE HYDRANT FLUSHING, CONTROL OF DUST, POTABLE WATER FLUSHING AND IRRIGATION DRAINAGE. BECAUSE OF THE NATURE OF THESE DISCHARGES, THE EROSION, STABILIZATION AND TREATMENT SYSTEMS TO BE IMPLEMENTED, AS PART OF THIS PLAN WOULD BE APPROPRIATE TO PREVENT AND TREAT ANY POLLUTION RELATED TO THESE NON-STORMWATER DISCHARGES.
2. DISCHARGES FROM DEWATERING ACTIVITIES ASSOCIATED WITH SITE CONSTRUCTION ARE NOT AUTHORIZED AND REQUIRED CONSTRUCTION OF TEMPORARY SEDIMENTATION BASINS AND USE OF APPROPRIATE FLOCCULATING AGENTS TO ENHANCE PARTICLE SEGREGATION AND SPEED UP SETTLING OF PARTICLES.

## XI. CONTRACTORS:

1. ALL CONTRACTORS AND/OR SUBCONTRACTORS RESPONSIBLE FOR IMPLEMENTING THE PLAN SHALL SIGN THE CERTIFICATION STATEMENT BEFORE STARTING CONSTRUCTION ACTIVITIES OF THE PROJECT. THE CERTIFICATION MUST INCLUDE THE NAME AND TITLE OF THE PERSON PROVIDING THE SIGNATURE, THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE CONTRACTING FIRM, THE ADDRESS OF THE SITE AND THE DATE THE CERTIFICATION IS MADE. THE OWNER SHALL KEEP THESE CERTIFICATIONS AS PART OF THIS POLLUTION PLAN. MULTIPLE COPIES OF THE CERTIFICATION STATEMENT MAY BE NECESSARY DEPENDING UPON THE NUMBER OF SUBCONTRACTORS ASSOCIATED WITH THE PROJECT.

### CERTIFICATION STATEMENT

"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND AND SHALL COMPLY WITH THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER."

CONTRACTING FIRM: _____

ADDRESS: _____

CITY, STATE, ZIP CODE: _____

TELEPHONE: _____

FAX: _____

PROJECT NAME: _____

PROJECT ADDRESS: _____

PROJECT ADDRESS: _____

CITY, STATE, ZIP CODE: _____ . FLORIDA.

NAME: _____ SIGNATURE: _____

DATE: _____

## STORMWATER POLLUTION PREVENTION PLAN INSPECTION REPORT FORM

Inspections must occur at least once a week and within 24 hours of the end of a storm event that is 0.50 inches or greater.

PROJECT NAME: LAKE CITY BIRLEY CRS — FDEP NPDES STORMWATER IDENTIFICATION NO.: FLR10 _____

OWNER: _____ — CONTRACTOR: _____

CONSTRUCTION MANAGER: _____

| Date of Inspection | Location | Rain data | Type of control (see below) | Date installed / modified | Current Condition (see below) | Observations or Corrective Action / Other Remarks | Inspected By |
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CONDITION CODE: G = Good; C = Needs to be cleaned; M = Marginal, needs maintenance or replacement soon; P = Poor, needs immediate maintenance or replacement; O = Other

CONTROL TYPE CODES

| | | | |
|---|---|---|---|
| 1. Silt Fence | 10. Storm drain inlet protection | 19. Reinforced soil retaining system | 28. Tree protection |
| 2. Earth dikes | 11. Vegetative buffer strip | 20. Gabion | 29. Detention pond |
| 3. Structural diversion | 12. Vegetative preservation area | 21. Sediment Basin | 30. Retention pond |
| 4. Swale | 13. Retention Pond | 22. Temporary seed / sod | 31. Waste disposal / housekeeping |
| 5. Sediment Trap | 14. Construction entrance stabilization | 23. Permanent seed / sod | 32. Dam |
| 6. Check dam | 15. Perimeter ditch | 24. Mulch | 33. Sand Bag |
| 7. Subsurface drain | 16. Curb and gutter | 25. Hay Bales | 34. Other |
| 8. Pipe slope drain | 17. Paved road surface | 26. Geotextile | |
| 9. Level spreaders | 18. Rock outlet protection | 27. Rip-rap | |

INSPECTOR INFORMATION:

_____ Name _____ Qualification _____ Date

The above signature also shall certify that this facility is in compliance with the Stormwater Pollution Prevention Plan and the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities if there are not any incidents of non compliance identified above.

* * * * * *

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.


eda
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Professional Engineer Record:
No 47311
STATE OF FLORIDA
PROFESSIONAL ENGINEER
4/15/19

Sergio J. Reyes, P.E. — 47311
Engineer — Certificate No.

Project No: 18-059

Project phase: COLUMBIA COUNTY SUBMITTAL

Project title: LAKE CITY BIRLEY CRS COLUMBIA COUNTY, FLORIDA

Sheet title: STORMWATER POLLUTION PREVENTION PLAN

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| Designed: MD | Sheet No.: C220 |
| Drawn: SLP | |
| Checked: TAR | |
| Date: 03/15/19 | |


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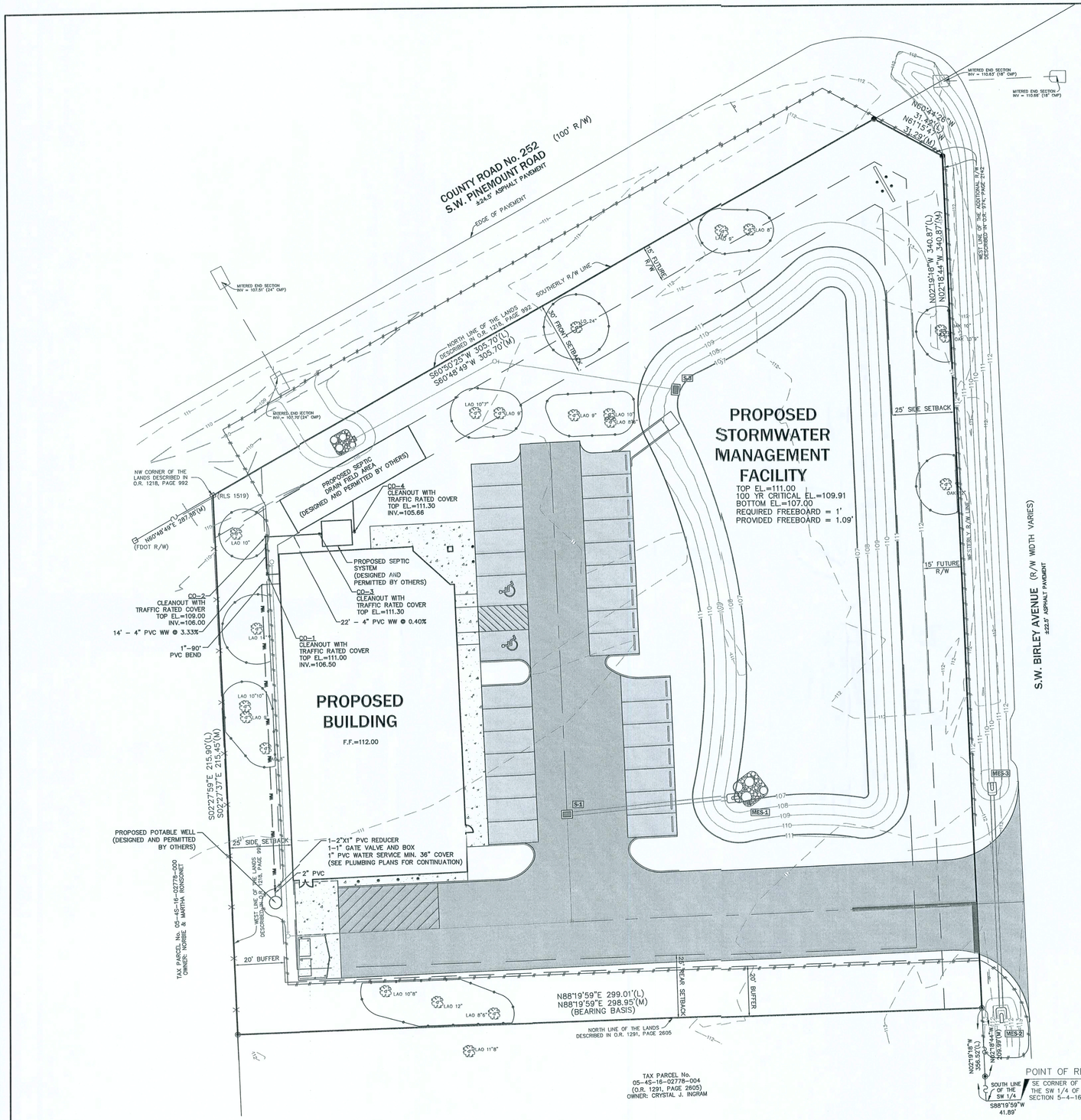


## UTILITY NOTES

1. A SEPARATE UTILITY PERMIT WILL BE REQUIRED FOR THE EXTENSION OF THE PROPOSED UTILITIES (WATER & WASTEWATER).
2. THE UTILITY PLAN AND PLAT SHOWS ALL PUBLIC UTILITY EASEMENTS (PUE'S) IN A METES AND BOUNDS FORMAT. UPON APPROVAL OF PLANS FOR DEVELOPMENTS NOT BEING PLATTED, OWNER MAY CHOOSE TO GRANT THE METES AND BOUNDS EASEMENTS AS SHOWN, OR GRANT A BLANKET EASEMENT OVER THE ENTIRE PROPERTY, PROVIDED FACILITIES ARE INSTALLED WITHIN THE PRESCRIBED DISTANCES AS SHOWN ON THE UTILITY PLANS AND IN ACCORDANCE WITH THE UTILITY SEPARATION REQUIREMENTS.
3. ALL CONSTRUCTION MATERIALS AND METHODS FOR POTABLE WATER, WASTEWATER AND RECLAIMED WATER SYSTEMS SHALL CONFORM TO THE MOST RECENT POTABLE WATER, WASTEWATER, AND RECLAIMED WATER SYSTEM DESIGN STANDARDS AND APPROVED MATERIALS MANUAL.
4. POTABLE WATER AND WASTEWATER MAINS SHALL MAINTAIN A MINIMUM 10 FEET HORIZONTAL AND 1.5 FOOT VERTICAL SEPARATION.
5. A MINIMUM HORIZONTAL SEPARATION OF 10 FEET FOR POTABLE WATER MAINS, WASTEWATER FORCE MAINS, AND RECLAIMED WATER MAINS, AND 15 FEET FOR GRAVITY WASTEWATER MAINS SHALL BE PROVIDED AND MAINTAINED FROM BUILDINGS, TRANSFORMERS AND ALL PERMANENT STRUCTURES. SERVICE LATERALS REQUIRE 5 FEET LESS CLEARANCE FOR EACH OF THE UTILITIES; NOTE THAT WATER SERVICE LATERALS SHALL BE INSTALLED WITHIN 3" SLEEVES.
6. ANCHORING TEES, COUPLINGS, AND BENDS SHALL BE USED ON ALL FIRE HYDRANT ASSEMBLIES.
7. ALL SANITARY WASTEWATER SERVICE LATERALS SHALL BE MIN. 4" DIAMETER PVC (SDR 35) AT 1.00% MIN. SLOPE UNLESS OTHERWISE LABELED.
8. WASTEWATER CLEANOUT COVERS LOCATED WITHIN PAVEMENT AND SIDEWALKS ADJACENT TO PAVED AREAS SHALL BE RATED FOR TRAFFIC LOAD BEARING. WASTEWATER CLEANOUT COVERS IN OTHER SIDEWALKS/WALKWAYS SHALL BE BRASS WITH A SQUARE RECESS.
9. MANHOLES WHICH ARE NOT INSTALLED UNDER PAVEMENT SHALL HAVE A RIM ELEVATION AT LEAST 6" ABOVE FINISHED GRADE, AND A 10:1 SLOPE TO FINISHED GRADE.
10. UNLESS OTHERWISE NOTED ON THE PLANS, THE FINISHED FLOOR ELEVATIONS OF BUILDINGS SHALL BE A MINIMUM OF 6" ABOVE THE LOWEST UPSTREAM MANHOLE TOP. IF THIS IS INFEASIBLE, A WASTEWATER SERVICE LATERAL BACKWATER VALVE (BWV) IS REQUIRED ON THE CUSTOMER SIDE OF CLEANOUT.
11. WHEN A POTABLE OR RECLAIMED WATER MAIN, OR A WASTEWATER FORCE MAIN IS ROUTED WITHIN 10 FT. OF AN ELECTRIC TRANSFORMER, A 20 FT. LENGTH OF DIP SHALL BE CENTERED ON THE TRANSFORMER WITH MECHANICAL RESTRAINT AT EACH END. NO FITTINGS OR VALVES SHALL OCCUR WITHIN 10 FT. OF THE NEAREST EDGE OF THE TRANSFORMER. A MINIMUM CLEARANCE OF 3' SHALL BE MAINTAINED BETWEEN THE MAIN AND THE TRANSFORMER.
12. A/C CONDENSATE SHALL NOT FLOW INTO WASTEWATER SYSTEM.
13. ELECTRICAL SERVICE TO BE COORDINATED WITH UTILITY PROVIDER.

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NORTH
SCALE: 1" = 20'
0 10 20 40
GRAPHIC SCALE

| No | Date | Comment |
|---|---|---|
| | | |

Professional Engineer of Record:
SERGIO J. REYES
No 47311
STATE OF FLORIDA
PROFESSIONAL ENGINEER
3/15/19

Sergio J. Reyes, P.E. — Engineer
47311 — Certificate No.

Project No: 18-059

Project phase: COLUMBIA COUNTY SUBMITTAL

Project title: LAKE CITY BIRLEY CRS
COLUMBIA COUNTY, FLORIDA

Sheet title: UTILITY PLAN

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| Checked: | TAR |
| Date: | 03/15/19 |

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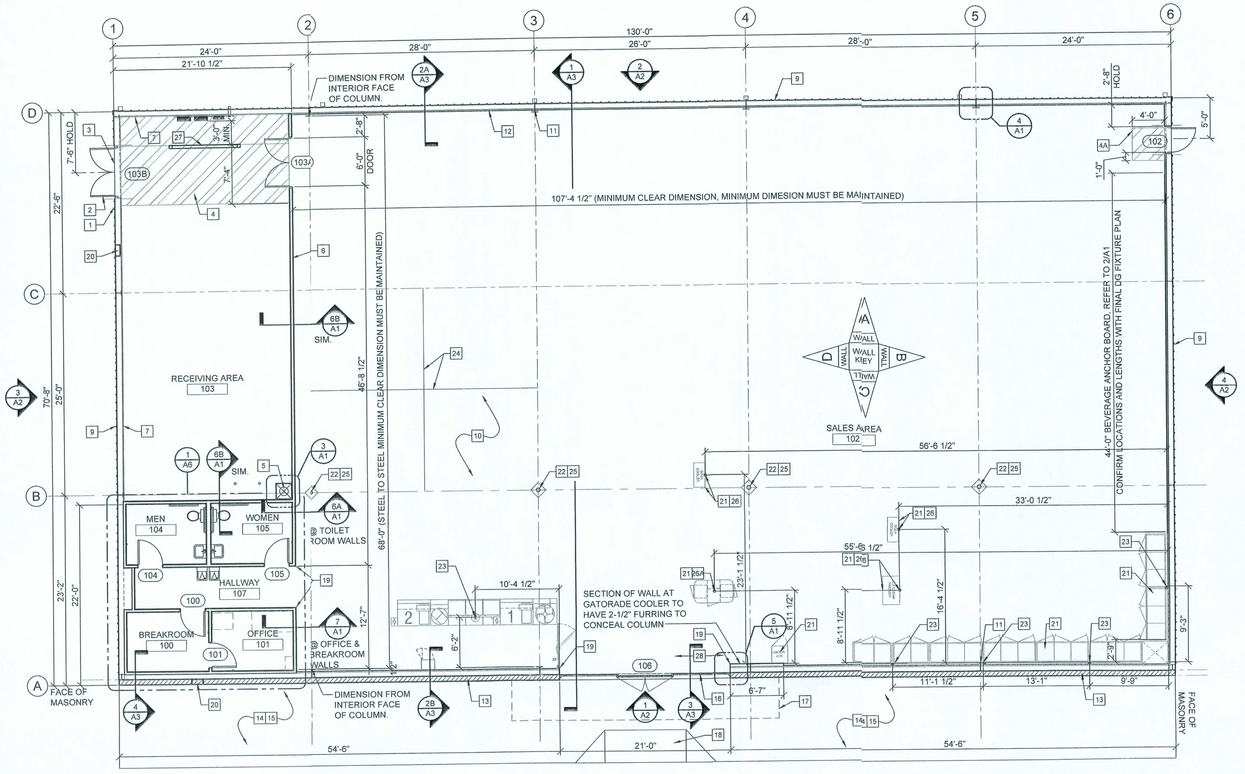



1 / A1 FLOOR PLAN
SCALE: 1/8" = 1'-0"

NORTH

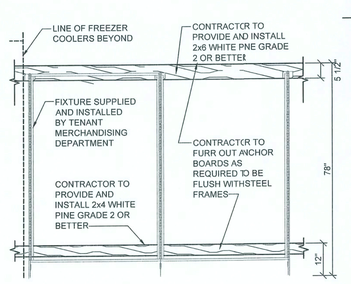
## FLOOR PLAN KEYED NOTES

1. RECEIVING DOOR BUZZER - TORK MDL #TA725 OR EQUAL
2. DOOR SCOPE. REFER TO DOOR SCHEDULE.
3. WEATHER STRIP & LOW PROFILE THRESHOLD. SEE DOOR SCHEDULE.
4. STRIPE FLOOR FOR DESIGNATED EGRESS PATH (PAINT YELLOW) AND 3'-0" DESIGNATED EMS PANEL CLEARANCE (PAINT RED).
4A. STRIPE FLOOR FOR DESIGNATED ADA EGRESS PATH (PAINT YELLOW).
5. PROVIDE AND INSTALL A TEN GALLON WATER HEATER (OR LARGER IF REQUIRED BY CODE) ABOVE THE MOP SINK.
6. 3 5/8" METAL STUD WITH 1/2" MINIMUM GYPSUM BOARD (BOTH SIDES). REFER TO NOTED WALL SECTION. REFER TO ROOM FINISH SCHEDULE FOR GYPSUM BOARD HEIGHT AT ANY PARTICULAR WALL.
7. METAL LINER PANELS TO 8'-0" A.F.F. (BY PRE-ENGINEERED BUILDING MANUFACTURER).
8. DIMENSIONS ARE TO COLUMN LINE UNLESS OTHERWISE NOTED.
9. METAL BUILDING PANELS (BY PEMB). PROVIDE TAMPER-RESISTANT FASTENERS FOR BOTTOM 8'-0".
10. CONCRETE SLAB WITH STRUCTURAL MIN. 6x6xW1.4 WELDED WIRE MESH OVER POLYETHYLENE VAPOR BARRIER (MIN. 10 MM THICK) OVER CRUSHED STONE BASE, TYPICAL, OR EQUIVALENT. SEE STRUCTURAL DWGS. PROVIDE CONTROL JOINTS AS SHOWN ON S03.
11. METAL BUILDING FRAME. REFER TO NOTED WALL SECTION FOR ADDITIONAL INFORMATION.
12. 1/2" GYPSUM BOARD (TO 10'-0" A.F.F.) OVER METAL LINER PANELS AND INSULATION WITH VAPOR BARRIER.
13. 8" SPLIT-FACED CMU PAINTED TO MATCH SIDE WALL PANELS. ALIGN FACE OF BLOCK WITH STEEL GIRT. PROVIDE PROPER ANCHORAGE TO STRUCTURE.
14. SLOPE CONCRETE 1/8" PER FOOT AWAY FROM BUILDING.
15. BROOM FINISH CONCRETE SIDEWALK, TYPICAL.
16. BRONZE STOREFRONT SYSTEM. REFER TO NOTED WALL SECTION FOR ADDITIONAL INFORMATION. CONTINUE GYPSUM BOARD ABOVE STOREFRONT TO DECK.
17. LINE OF SOFFIT OR CANOPY ABOVE.
18. A.D.A. COMPLIANT ACCESSIBLE RAMP WITH YELLOW PAINTED SIDES TO ACCESSIBLE PARKING STALLS.
19. MC CUE CART AND BUMPER GUARDS. TOP INSTALLED @ 3'-5" A.F.F. ORDER TRIM KIT FOR THIS PROTOTYPE.
20. WALL HYDRANT. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
21. REFRIGERATION BY DOLLAR GENERAL.
22. ROUND PIPE STEEL COLUMN WITH RECESSED BASE PLATE. PAINT SW7005 PURE WHITE. WRAP COLUMN WITH TIGHT LOOP CARPET (BLACK) FROM BASE TO 48" A.F.F.
23. POWER POLE. COORDINATE FINAL LOCATION WITH FINAL DOLLAR GENERAL FIXTURE PLAN (F01).
24. CONTROL JOINTS ARE TO BE PLACED ALONG COLUMN LINES AND MID POINT BEWTEEN COLUMN LINES. COORDINATE WITH STRUCTURAL DRAWINGS.
25. FLOOR AREA AT BASE OF COLUMNS, WITHIN THE CONST JOINTS, TO BE PAINTED BLACK MAGIC TINT.
26. ENDCAP COOLER/FREEZER TO BE HARDWIRED THROUGH WHITE SO CORD WITH DUPLEX AT END. GC TO LEAVE BOTTOM HANGING AT 80" A.F.F. (SEE ELECTRICAL). CORD ANCHORED TO PURLINS ABOVE. COORDINATE LOCATION WITH FINAL DOLLAR GENERAL FIXTURE PLAN.
26A. KIOSK COOLER TO BE HARDWIRED THROUGH WHITE SO CORD WITH QUAD AT END. GC TO LEAVE BOTTOM HANGING AT 48" A.F.F. (SEE ELECTRICAL). CORD ANCHORED TO PURLINS ABOVE. COORDINATE LOCATION WITH FINAL DOLLAR GENERAL FIXTURE PLAN.
27. MC CUE RAILING IN FRONT OF ELECTRICAL PANELS. 8'-0" LONG WITH TOP TWO RAILINGS AND NO MIDDLE POST.
28. CART AREA. REFER TO 5 & 6/A6.

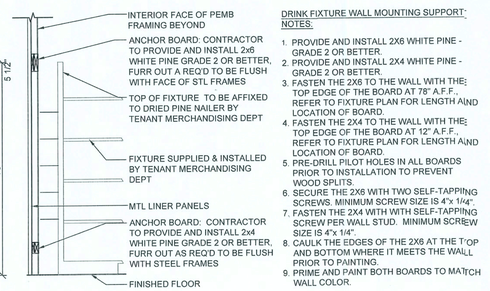
NOTES:

A. IDENTIFY THROUGH-PENETRATION FIRESTOP SYSTEMS WITH PRESSURE SENSITIVE SELF ADHESIVE, PRE-PRINTED RUBBER BASE LABELS, ATTACH LABELS PERMANENTLY TO SURFACES OF PENETRATED CONSTRUCTION ON BOTH SIDES OF EACH FIRESTOP SYSTEM INSTALLATION WHERE LABELS WILL BE VISIBLE TO ANYONE SEEKING TO REMOVE PENETRATING ITEMS OR FIRESTOP SYSTEMS. SHARE THE FOLLOWING INFORMATION ON THE LABELS:

1. THE WORDS: "WARNING FIRE AND/OR SMOKE BARRIER-PROTECT ALL OPENINGS. DO NOT DISTURB. NOTIFY BUILDING MANAGEMENT OF ANY DAMAGE".
2. CONTRACTOR'S NAME, ADDRESS AND PHONE NUMBER
3. THROUGH PENETRATION FIRESTOP SYSTEM DESIGNATION OF APPLICABLE TESTING AND INSPECTING AGENCY
4. DATE OF INSTALLATION
5. THROUGH PENETRATION FIRESTOP SYSTEM MANUFACTURER'S NAME
6. INSTALLER'S NAME

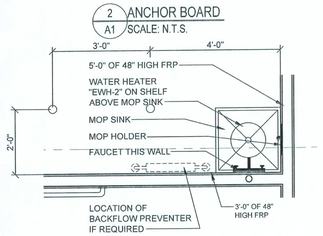



2 / A1 ANCHOR BOARD
SCALE: N.T.S.

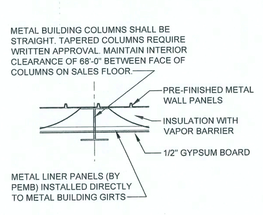



DRINK FIXTURE WALL MOUNTING SUPPORT: NOTES:

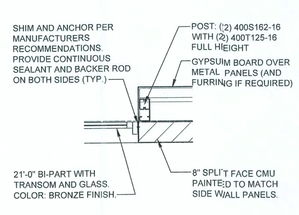
1. PROVIDE AND INSTALL 2X6 WHITE PINE - GRADE 2 OR BETTER.
2. PROVIDE AND INSTALL 2X4 WHITE PINE - GRADE 2 OR BETTER.
3. FASTEN THE 2X6 TO THE WALL WITH THE TOP EDGE OF THE BOARD AT 78" A.F.F., REFER TO FIXTURE PLAN FOR LENGTH AND LOCATION OF BOARD.
4. FASTEN THE 2X4 TO THE WALL WITH THE TOP EDGE OF THE BOARD AT 12" A.F.F., REFER TO FIXTURE PLAN FOR LENGTH AND LOCATION OF BOARD.
5. PRE-DRILL PILOT HOLES IN ALL BOARDS PRIOR TO INSTALLATION TO PREVENT WOOD SPLITS.
6. SECURE THE 2X6 WITH TWO SELF-TAPPING SCREWS. MINIMUM SCREW SIZE IS 4"x 1/4".
7. FASTEN THE 2X4 WITH WITH SELF-TAPPING SCREW PER WALL STUD. MINIMUM SCREW SIZE IS 4"x 1/4".
8. CAULK THE EDGES OF THE 2X6 AT THE TOP AND BOTTOM WHERE IT MEETS THE WALL PRIOR TO PAINTING.
9. PRIME AND PAINT BOTH BOARDS TO MATCH WALL COLOR.



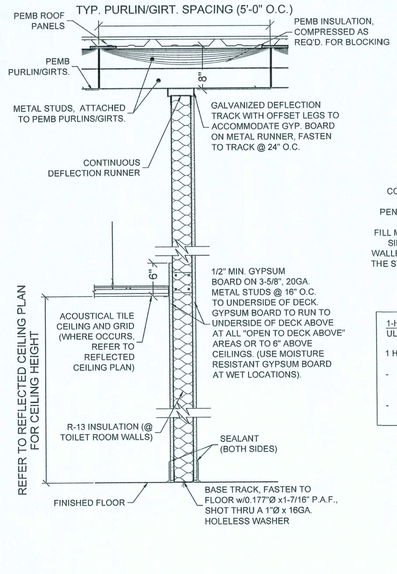

3 / A1 MOP SINK
SCALE: 1/2" = 1'-0"



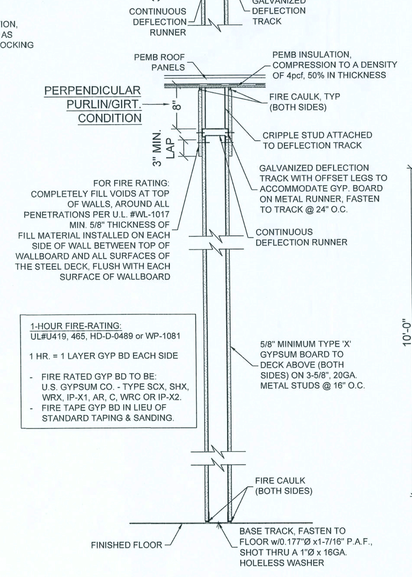

4 / A1 COLUMN DETAIL
SCALE: 1/2" = 1'-0"




5 / A1 EXT. CORNER
SCALE: 1/2" = 1'-0"

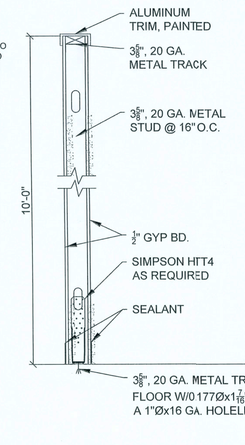



6A / A1 TYP. PARTITION
SCALE: 1" = 1'-0"




6B / A1 FIRE RATED PARTITION
SCALE: 1" = 1'-0"




7 / A1 OFFICE/BREAK ROOM PARTITION
SCALE: 1" = 1'-0"

JAMES BLYTHE
REGISTERED ARCHITECT
3917 NW 97th BLVD.
GAINESVILLE, FL. 32606
AR94452

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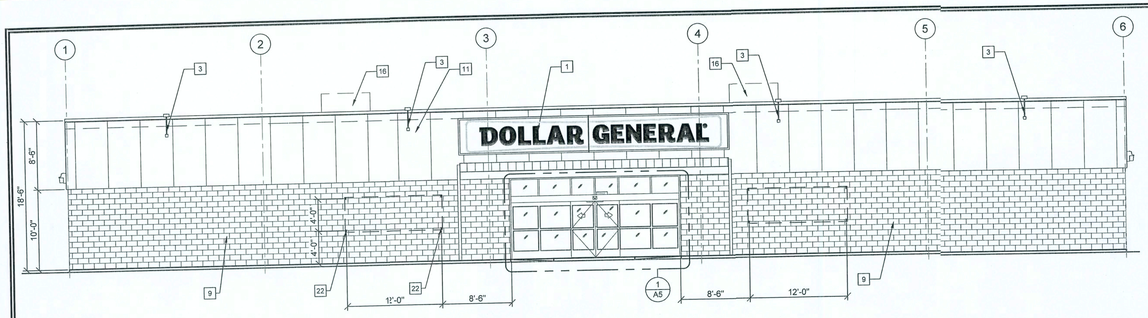
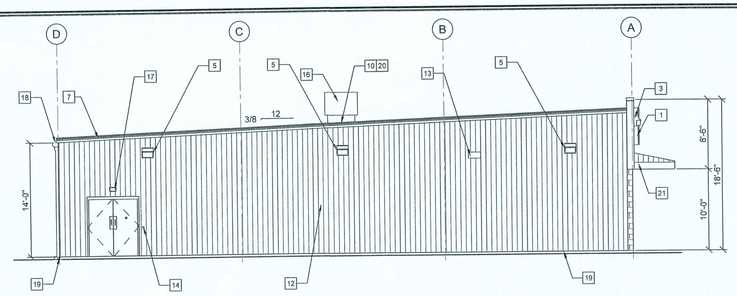
STORE # TBD
2016 PROTOTYPE - PLAN 9100C - 9,100 SQ. FT.

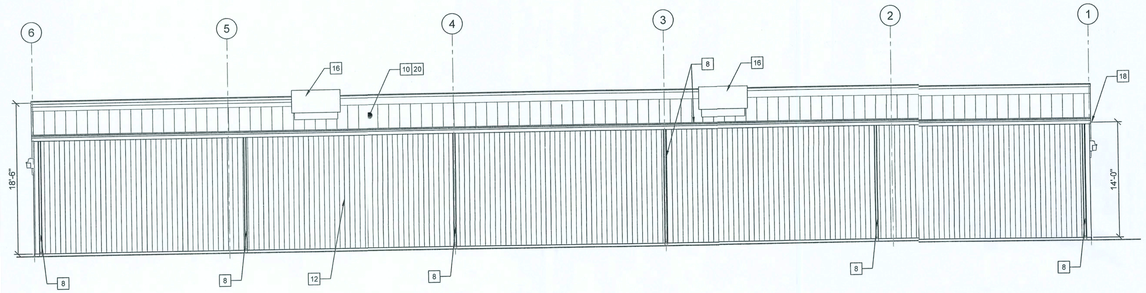
DRAWING DATE: / DRAWN BY: 4-1-18 / JEM
REVISION DATE: / REVISED BY:
PROJECT NUMBER: 4000.170
DRAWING TITLE: FLOOR PLAN & DETAILS
SHEET NO. A1



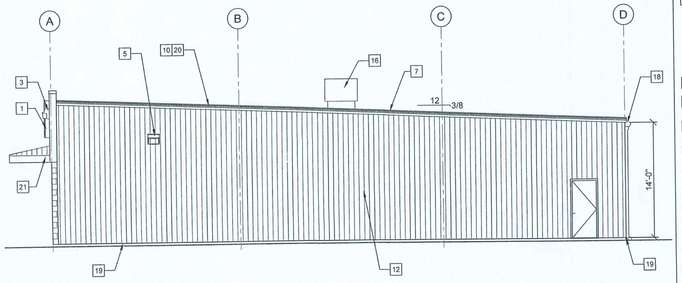

1 A2 NORTH (FRONT) ELEVATION
SCALE: 1/8" = 1'-0"




3 A2 EAST (LEFT) ELEVATION
SCALE: 1/8" = 1'-0"




2 A2 SOUTH (REAR) ELEVATION
SCALE: 1/8" = 1'-0"




4 A2 WEST (RIGHT) ELEVATION
SCALE: 1/8" = 1'-0"

## DUMPSTER KEY NOTES

1. TOP OF WALL, BOND BEAM SOLID POURED CONT., W/(2) #5 REBAR
2. SOLID POURED CELL EVERY 48" W/(1) #5 CONT. DRILLED & EPOXIED FROM TOP TO BOTTOM W/12" HOOK EACH END AND MIN. 30" SPLICE
3. 8" SPLI-FACED CMU W/(1) #5 AT 48" O.C. TYP. (PAINT BLOCK TO MATCH BUILDING
4. FINISHED SLAB
5. 20"x18" CONCRETE FOOTING
6. (2) #5 CONT. W/12" STANDARD HOOK
7. 6" STEEL BOLLARD, POUR SOLID. PAINT TO MATCH BUILDING/CMU. SEE CIVIL PLANS FOR EMBEDMENT.
8. DUMPSTER (NIC)

CONCRETE FOOTING W/REINFORCED CONCRETE AS SHOWN

CONCRETE SHALL BE STANDARD MIX F'c=3000 PSI FOR ALL FOOTINGS AND SLABS OR SHALL BE STANDARD PUMP MIX F'x=3000 PSI. STRENGTH SHALL BE ATTAINED WITHIN 28 DAYS OF PLACEMENT. MIXING, PLACING AND FINISHING SHALL BE PER ACI STANDARDS.

CONCRETE SHALL BE PER MANUFATURER'S PRODUCT GUIDE ASTM C-90 REQUIREMENTS WITH MEDIUM SURFACE FINISH.

MORTAR SHALL BE TYPE 'M' OR 'N' FOR ALL MASONRY UNITS.

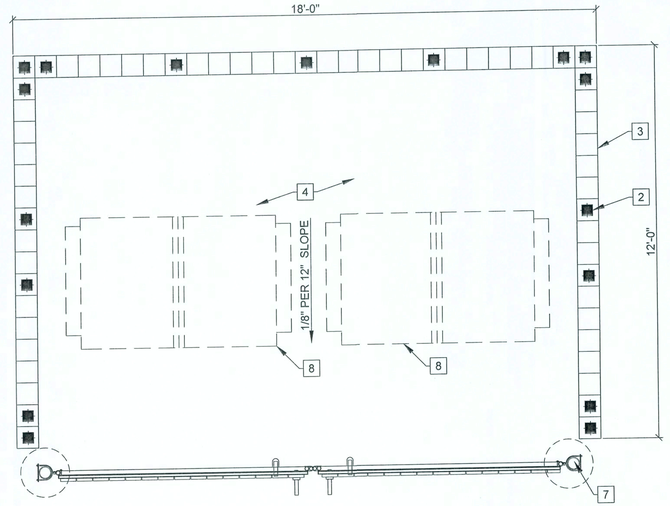
DUMPSTER ENCL. CONCRETE SPECS:

CONSTRUCT FOOTING w/REINFORCED CONCRETE AS SHOWN.

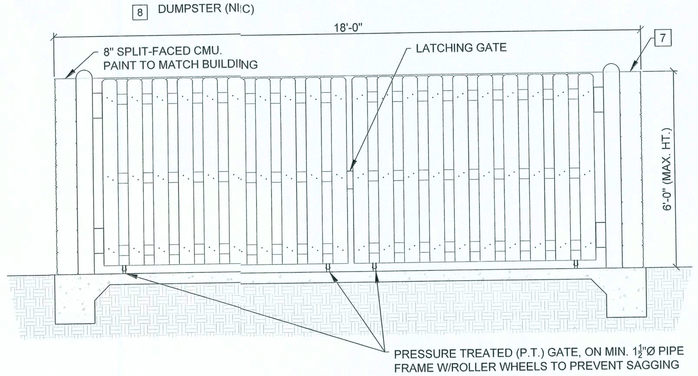
CONCRETE SHALL BE STANDARD MIX F'c = 3000 PSI FOR ALL FOOTINGS AND SLABS OR SHALL BE STANDARD PUMP MIX F'c = 3000 PSI. STRENGTH SHALL BE ATTAINED WITHIN 28 DAYS OF PLACEMENT. MIXING, PLACING AND FINISHING SHALL BE AS PER ACI STANDARDS.

CONCRETE BLOCK PER ASTM C-90 REQUIREMENTS WITH MEDIUM SURFACE FINISH. SEE SPECS ON A-12.

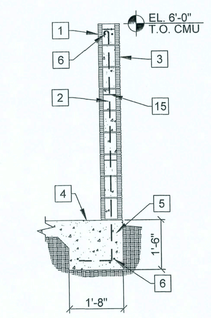
USE TYPE 'M' OR 'N' MORTAR TO LAY UP CONCRETE MASONRY BLOCK.




5A A2 DUMPSTER ENCLOSURE PLAN
SCALE: 1/2" = 1'-0"




5B A2 DUMPSTER ENCLOSURE ELEVATION
SCALE: 1/2" = 1'-0"




5C A2 TYP. SECTION
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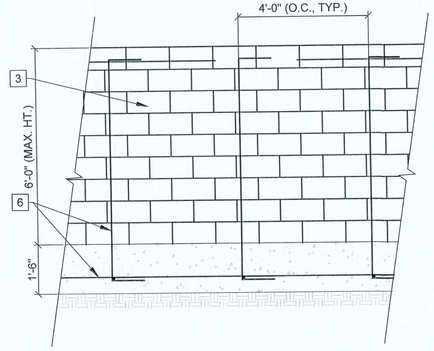


5D A2 REBAR ELEVATION
SCALE: 1/2" = 1'-0"

## ELEVATION KEYED NOTES

1. SIGN FURNISHED AND INSTALLED BY DOLLAR GENERAL CORP. WITH CIRCUIT AS NOTED ON ELECTRICAL PLAN. SIGN TO BE CENTERED ON FRONT OF BUILDING. CONTRACTOR IS TO PROVIDE ADEQUATE BLOCKING AS REQURED BY SIGN MANUFACTURER TO SUPPORT SIGN WEIGHT OF UP TO 1,400 LBS. EXTERIOR CANOPY SIGN SHALL BESUPPORTED BY THE FACE OF THE CANOPY. COORDINATE THE PROPER SIGNAGE TO BE USED WITH DOLLAR GENERAL.
2. NOT USED.
3. FLOOD LIGHT 16'-6" A.F.F. AT CENTERLINE OF CONNECTION TO WALL. REFER TO ELEC. DRAWINGS FOR ADDITIONAL INFO.
4. FLOOD LIGHT 12'-0" A.F.F. TO TOP OF WALL PACK. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
5. WALL PACK AT 12'-0" A.F.F. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
6. NOT USED.
7. TRIM - SEE EXTERIOR FINISH SCHEDULEFOR COLOR.
8. GUTTER AND DOWNSPOUT - SEE EXTERIOR FINISH SCHEDULE FOR COLOR.
9. 8" SPLIT FACE CONCRETE MASONRY UNT. PAINT TO MATCH SIDE WALL PANELS.
10. STANDING SEAM METAL ROOF. GALVALUME FINISH.
11. PRE-FINISHED METAL WALL PANELS, RE/ERSE RIB PROFILE. COLOR TO BE DARK BRONZE OR SIMILAR AS PROVIDED BY PRE-ENGINEERED METAL BUILDING MANUFACTURER. IF ALTERNATE MATIERLA IS REQUIRED, PANT OR MATCH SHERWIN WILLIAMS "VAN DYKE BROWN' WHERE ALLOWED BY AHJ.
12. PRE-FINISHED METAL WALL PANELS. PROVIDE TAMPER-RESISTANT FASTENERS FOR BOTTOM 8'-0". COLOR TO BE "LIGHT STONE". IF ALTERNATE IS REQUIRED, COLOR TO BE SW 7037 "BALANCED BEIGE".
13. VENT FOR BATHROOM EXHAUST. REFER TO M01 FOR ADDITIONAL INFORMATION.
14. DOOR BUZZER. REFER TO E01 FOR ADDTIONAL INFORMATION.
15. NOT USED.
16. HVAC UNITS MOUNTED ON ROOF. REFER TO MECHANICAL SHEET M1 FOR MORE INFORMATION.
17. OUTSIDE AIR TEMP. SENSOR MOUNTEDOVER RECEIVING DOORS @ 8'-0" A.F.F.
18. MINIMUM EAVE HEIGHT IS 14'-0" A.F.F.
19. FINISHED GRADE AT EXTERIOR WALLS SHALL BE A MINIMUM OF 6" BELOW FINISHED FLOOR AT ALL NON-PAVED AREAS.
20. IN NORTHERN CLIMATES, PROVIDE SNOW GUARDS ON ROOF PER LOCAL CODE.
21. METAL CANOPY BY PRE-ENGINEERED METAL BUILDING MANUFACTURER. (ONLY APPLICABLE TO C & D PROTOTYPES)
22. 1/2" DIAMETER x 6" LONG STAINLESS STEEL EYE BOLTS (CLOSED) WITH 1" DIAMETER OPENINGS. DRILL AND EPOXY INTO BLOCK WALL. 4 BOLTS TO BE LOCATED AS SHOWN EACH SIDE OF ENTRY, TOTAL OF 8 BOLTS.

JAMES BLYTHE
REGISTERED ARCHITECT
3917 NW 97th BLVD.
GAINESVILLE, FL. 32606
AR94452

ZONING DEPARTMENT COLUMBIA COUNTY READY TO PERMIT APPROVED

THESE DRAWINGS HAVE BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE CORRECT, CONCEPT COMPANIES ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THESE DRAWINGS FOR ANY ERRORS OR OMISSIONS THAT MAY HAVE BEEN REPRODUCED BY CONCEPT COMPANIES AS A RESULT OF INFORMATION PROVIDED TO THE ARCHITECT. THOSE RELYING ON THIS DOCUMENT ARE ADVISED TO OBTAIN VERIFICATION OF ITS CONTENT. ALL WORK SHALL COMPLY WITH ALL APPLICABLE APPLICABLE CODES AND ORDINANCES. SUPERINTENDENTS ARE TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. ALL INTELLECTUAL PROPERTY RIGHTS TO THESE DRAWINGS ARE THE EXCLUSIVE PROPERTY OF THE PARTIES NOTED ON THIS TITLE BLOCK.

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DOLLAR GENERAL®
CR252 & SW BIRLEY AVE
LAKE CITY, FL 32024
STORE # TBD
2016 PROTOTYPE - PLAN 91002 - 9,100 SQ. FT.

DRAWING DATE / DRAWN BY: 4-1-18 / JEM
REVISION DATE: / REVISED BY:
PROJECT NUMBER: 4000.170
DRAWING TITLE: ELEVATIONS & DUMPSTER ENCLOSURE
SHEET NO. A2

## Trees

| Quantity | Abbr. | Botanical Name / | Size / Caliper | Spacing | Comments |
|---|---|---|---|---|---|
| 5 | | *Quercus virginiana* live oak | 4'Ht., | per plan | |
| 1 | | *Ilex x attenuata 'East Palatka'* east palatta holly | 4'Ht., | per plan | |

## Shrubs

| | | | | | |
|---|---|---|---|---|---|
| 67* | wm | *Myrica cerifera* wax myrtle | 5'Ht. X 4'Spr. | per plan | *qty. depends on existing |
| 122 | cg | *Paspalum quadrifarium* crowngrass | 1gal., 18"ht. full | per plan | |

## Groundcovers / Sod

| | | | |
|---|---|---|---|
| 2,225 sf x 3" thick | | *Pine Bark Mini-Nuggets* 3" layer, 1"pieces | does not inc. wax myrtle |
| 17,070 sf | | *Pasapalun notatum 'Argentine'* bahia grass | |

## Overall Site Planting Requirements

Off street parking area 15,781sf
10% or 1,578 sf required parking area landscape ; 1,791 sf provided
1 tree per 200sf = 8 trees required @ 4'Ht. ; 9 provided

## General Notes

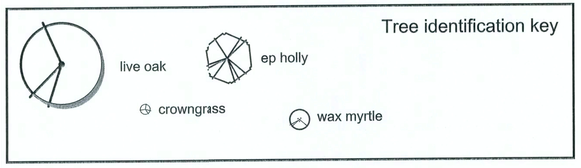
Notes

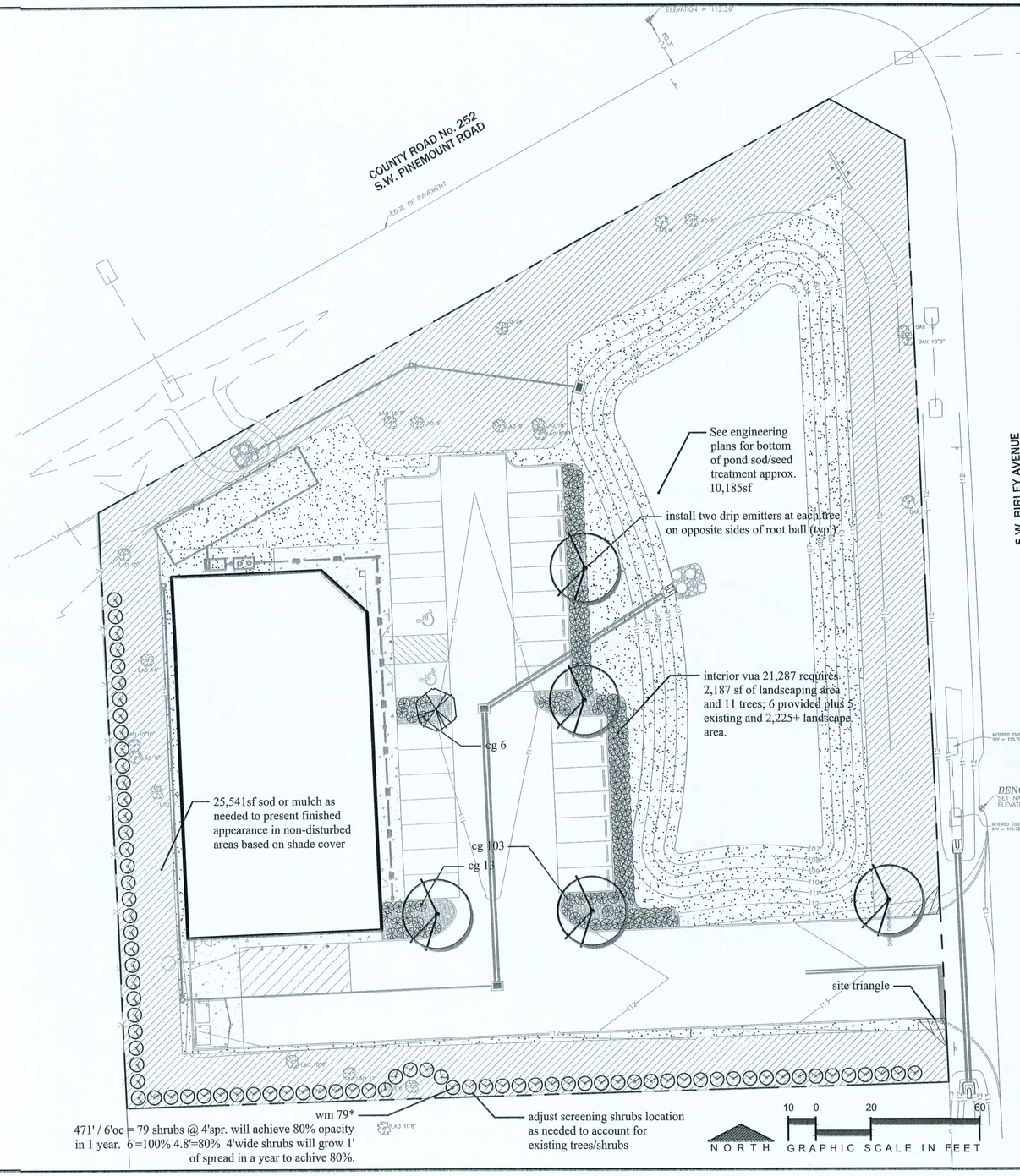
1. Contractor shall provide proposed soil amendment quantities on bid form to ensure healthy vigorous growth of plant material, lateral movement of irrigation water within soil, & soil nutrient holding capacity.
2. Any vegetation planted adjacent to a parking stall where it may interfere with a vehicles door opening shall be offset 2' from back of curb. Trim plant material as needed to keep a 6" clearance from back of curb in these areas.
3. ALL mulched areas adjacent to edge of curb, pavement, shall be composed of a compressed 3" thick layer of mulch. Top of mulch shall be 1/2" below edge of adjacent surface so mulch has a containment edge.
4. ALL proposed sod areas adjacent to edge of curb/pavement shall be excavated so the sod does not impede water runoff into the pervious areas.
5. All revisions shall be submitted to the Columbia County for review and approval prior to installation.

## Soil Testing

Existing soil composition has not been tested. Contractor shall remove all material used in construction of parking lots and buidings within plant beds and infill with suitable soil and amendments to support healthy growth.

### Tree identification key





BORTON DESIGN INC.
1194 N KYLE WAY PORT ORANGE FLORIDA
CERT OF AUTH # LC26020483
(386) 304-8915 BDB@BORTONDESIGN.COM


ZONING DEPARTMENT COLUMBIA COUNTY FLORIDA APPROVED

# LANDSCAPE PLAN

COMMERCIAL RETAIL STORE - BIRLEY
PREPARED FOR
CONCEPT DEVELOPMENT, LLC.

BDI NO. 18076 REVISIONS:
DRAWN BY: BDB
DESIGNED BY: BDB
CHECKED BY: BDB
DATE: 2-18-2019

PLANS PREPARED BY:
BRIAN DAVID BORTON FL. NO. LA0667028

LS-01

## Irrigation Schedule

| Quantity | Description |
|---|---|
| 65' | Rainbird XFD blank tubing |
| 1 | Rainbird ESP-RZX Series Controller |
| 1 | Rainbird WR2 - RC sensor |
| 1 | Rainbird 075-DV |
| 1 | Senninger PMR-M²-50 |
| 0 | Rainbird XB-05PC drip emitter |
| 0 | Rainbird XB-10PC drip emitter |
| 174 | Rainbird XB-20PC drip emitter |
| 1 | Rainbird or equal drip filter |
| 2 | 1/2" ball valve in boxes |

## Legend

- sleeve[1,2]
- lateral[2] shrub
- blank poly tubing
- C controller
- S rain sensor
- control valves
- zone # and flow rate in gallons per minute

[1] sleeves - Unless specified on plans all sleeves shall be 2". When plans show lateral in pipe, install pipe in sleeve and cap both ends 12" beyond end of sleeve.

[2] irrigation lateral lines and sleeving may be diagramatic in nature and are intended to be installed in suitable locations within property boundaries.

## Watering Schedule

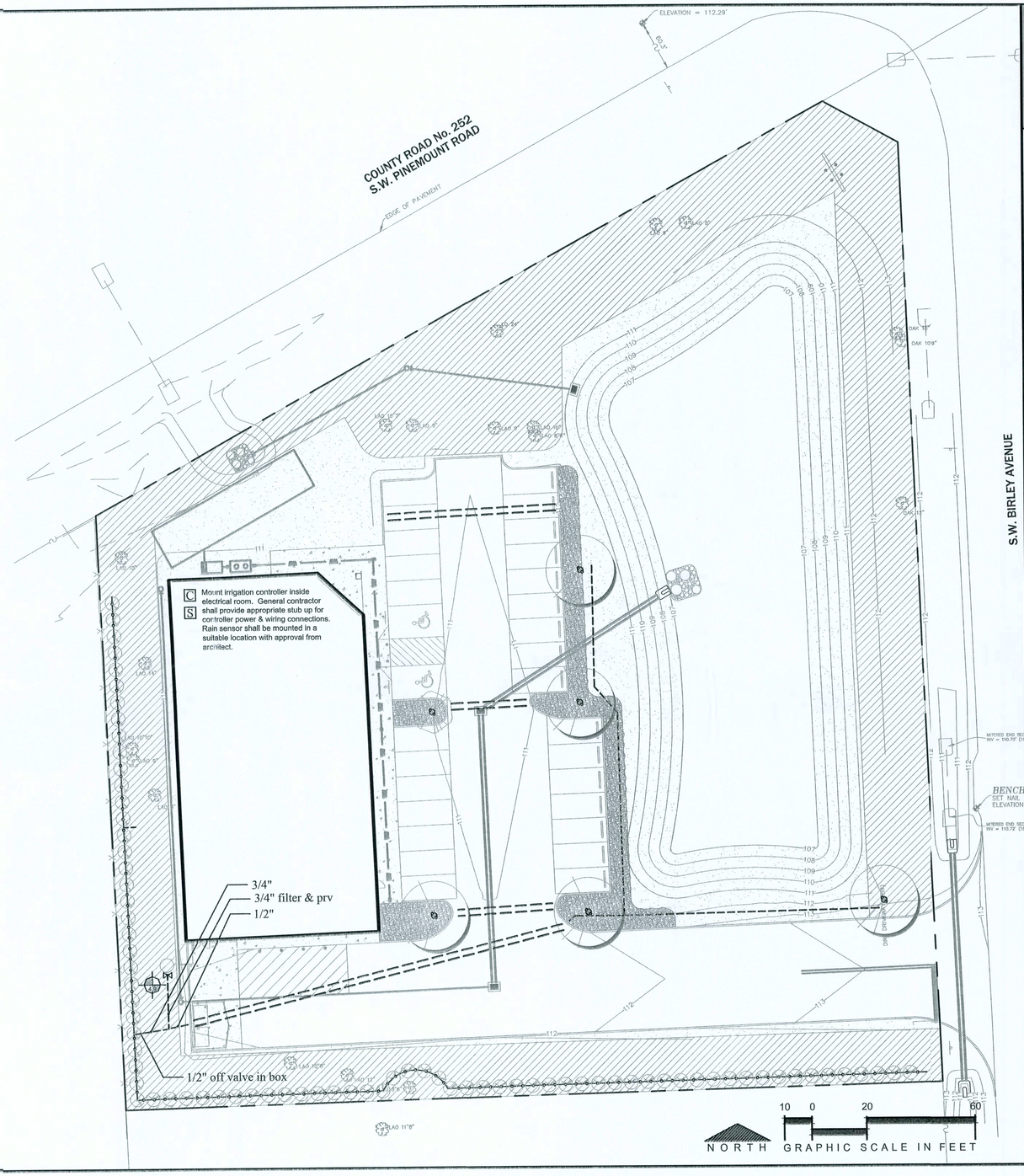
Water all plants listed once per day for 60 minutes until established. After one year plants should be sufficiently rooted into existing soil for shutdown; however, it is recommended that a review be performed by a certified arborist before shutting off the system. After establishment irrigation should only be needed during times of drought.

## Number of emitters per tree/shrub

| | |
|---|---|
| live oak | 2-2gph emitters |
| wax myrtle | 2-2gph emitters |
| crown grass | hand water 1 week |

## General Notes

1. Dripline. Drip shall be installed on top of soil and covered with mulch.
2. Control Valves & Regulators. Control valves shall be installed and set 5% over proposed flow.
3. Pipe. 1/2" pipe shall be Class 315 PVC. Piping larger than 1/2" shall use Class 200 PVC.
4. Irrigation materials not identified on irrigation schedule or in specifications as to brand and model # shall be either Rainbird, Nelson, or Hunter and sized appropriately by contractor to meet requirements by the manufacturer. Contractor shall include all materials including quantity, model, size, and installed price for each item on bid form.
5. All irrigation revisions shall be submitted to Columbia County for review and approval prior to installation.
6. No irrigation to be provided at sod. Contractor shall irrigate with a water truck as needed for the first two weeks.

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ZONING DEPARTMENT
COLUMBIA COUNTY, FLORIDA
THE SUNWAY TO FLORIDA
APPROVED

# IRRIGATION PLAN

COMMERCIAL RETAIL STORE - BIRLEY
PREPARED FOR
CONCEPT DEVELOPMENT, LLC.

BDI NO. 18076 REVISIONS:
DRAWN BY: BDB
DESIGNED BY: BDB
CHECKED BY: BDB
DATE: 2-18-2019

PLANS PREPARED BY
BRIAN DAVID BORTON FL. NO. LA6667026

LS-02

LANDSCAPE PART 1 GENERA. NOTES

Scope. This section includes al planting of shrubs, trees, ground covers, and other landscape supplementary work shown on tle drawings and specified herein, complete.

Applicable Documents. The foloving publications, specifications, and standards of the issues listed in this paragraph (including the amendments and addenda designated), but referred to hereinafter by basic designationonly, form a part of this specification to the extent required by the references thereto.

Publication of Reference. Publiations as herein listed shall be held in basic reference:

Grades and Standards for Nursary Plants, Parts I and II, State Department of Agriculture and/or State Plant Board of Florida, Segle Building, Gainesville, Florida.

State of Florida Fertilizer Law, Office of the Secretary of State, Tallahassee, Florida.

American Standard for Nursery Stock (ANSIZ60.1-), American Association of Nurserymen.

Standards for Tree Care Operations (ANSI A300)

Guideline Specifications to Sodding, America Sod Producers Association (ASPA)

Plant Quantities. All plant quantities shown in the plans are approximate based on the plan locations. The Contractor shallbe fully responsible for determining all final plant quantities and shall submit a revised plant schdule with final plant quantities as part of the contract and prior to construction.

Substitutions of Plant Materil. If a plant is found to be unavailable, submit proof of non-availability and a proposal for use of equivalent material. When authorized, adjustment of contract amount will be mad. No substitutions will otherwise be authorized. To prove non-availability, The Contractor must provide at least eight (8) letters from growers or dealers from the States of Florida and Georgia explaining the non-Availability of the plant material.

On-Site Conditions and Adjustments. The locations of plants, as shown on the plans, are fairly accurate. Planting shall be adjusted only when necessary to accommodate actual as-built conditions on the site and any changes in locations caused thereby shall be made without additional cost to the Owner, Owner's Representative, or Landscape Architect. The Contractor shall immediately notify the Owner's Representative when conditions detrimental to plant growth are encountered, such as rubble fill, lime rock, or obstructions; and when field conditions are different than portrayed on the plans prior to planting. The owner or Owner's Representative may adjust the layout or location of specified plant materials to avoid these areas without additional costs.

Coordination of Plantings. Coordinate all landscape work with the Owner's Representative and other contractors. Plant trees and shrubs after final grades are established and prior to planting of lawns, unless otherwise directed by the Owner's Representative.

Fine Grading. Provide fine grding necessary to establish finish grade in all landscape areas. Fine grading shall include only minor grading to correct random or infrequent grade irregularities of 12" or less, unless otherwise noted on plans.

Liability of Contractor. The Contractor shall be liable for any and all damages to property that result from his performance. He shall, without extra cost, restore to original condition any areas and/or construction damaged, defaced, disturbed, or destroyed by him or his workmen.

Tree Tagging. A tree tagging tip may be requested by Owner's Representative prior to approval of plant material. Contractor shall be responsible for providing transportation and accommodations if necessary.

Inferior Materials. Contractor shall reject inferior materials. The Owner's Representative reserves the right to reject any or all materials not meeting the criteria specified herein or determined to be damaged or unhealthy.

Onsite Debris. Contractor shall be responsible for removing and disposing of offsite all stones over 1" in diameter, sticks, roots, and other extraneous matter in planted areas to a depth of 2'. If debris is excessive and results from construction waste please contact Owner's Representative for appropriate actions.

LANDSCAPE PART 2 SUBMITTALS

Soil Testing for Plant Material. The Contractor shall be responsible for testing soils in planted areas to confirm that soil is suitable for healthy plant growth and shall submit a report to the Owner's Representative prior to construction showing test data and any conflicts determined by the contractor.

Seed Certification. All seed nust comply with regulatory agencies for fertilizer and herbicide composition.

Inspection Certificates, Manufacturer's Data. Upon request of Representative copies of inspection certificates or manufacturer's data shall be provided for any material used onsite or for existing materials found onsite.

LANDSCAPE PART 3 MATERIALS

General Plant Material Requirements. Provide state inspected, nursery grown plants, and according to the plant schedule unless otherwise specified. Conform to the, "Florida Department of Agriculture Grades and Standards For Nursery Plants", local landscape ordinance, and, where applicable, to ANSI Z60.1 All plant materials shall be Nursery grown, Florida No. 1 stock. All materials shall be healthy, vigorous, free of diseases and insects, pruned for best shape without appearance of "de-horning", and without symptoms of nutritional deficiency. Furnish plants grown under climatic conditions must measure according to sizing required detailed on the drawings. Plants must be naturally bushy, dense, in good foliage, well branched, and of good appearance. The nursery/nurseries from which plants are derived shall be under regulatory inspection by the Florida State Department of Agriculture and/or the Florida State Plant Board, or an equivalent agency if derived from outside the State of Florida. Plants entering from outside the State of Florida must bear the entry certificate of the State Department of Agriculture of the State of Florida. All plant materials will be subject to approval of the Owners or Owner's Representative for quality, size and color.

Soil Additives. Contractor shall be responsible for adding peat, humus, fertilizer, manure, pH adjusters or any other commercially accepted soil additive to ensure normal, healthy plant growth or as noted on the plans.

Balled and Bur lapped Trees. Ensure that field grown material follows local industry standards for root pruning, digging, balling and burlapping, etc. All balled and bur lapped materials must be hardened off before shipment. All materials are subject to approval by the Owner's Representative prior to shipping to project site. The top 5 inches of natural burlap shall be removed and completely remove any synthetic burlap wrapping or wire cages before installation.

Spaded Trees. Trees shall hve been spaded from a commercial nursery field that has been inspected by the Department of Agriculture and Consumer Services within the last 9 months. The Contractor shall provide a copy of the most recent Nursery, Stock dealer and Special Inspection Report for verification upon Owner's Representative request. Ball size shall be at least one size greater than recommended by ANSI Z60.1, American Standard for Nursery Stock, unless otherwise specified. Saded material is subject to approval and tagging by the Owner's Representative prior to shipping to project site.

Container Plants. Provide container-grown plants with sufficient roots to hold the container soil together after removal from the container. Root bound plants and plants with inadequate root systems are not acceptable.

Surface Mulch. Use mulch tye specified in plans. Mulch shall be in a non-decomposed state; not more than one (1) season old.

Herbicides, Insecticides. Chemical sprays, dusts, or gaseous compounds used on or around plant materials, including but not limited to trees, shall be approved for such uses by the Environmental Protection Agency and the Florida Department of Agriculture. and Consumer Services. Such materials as may be used shall not constitute a hazard to human health or interfere with site working conditions and habitation.

Seed Requirements General. Where seeding may be required on the plans, the seed required shall comply with all minimun provisions of the Florida Seed Certification and Testing Law. Noxious weed seeds shall be non-existent and foreign materials shall not exceed two percent.

Sod Requirements General. Se plan for specified sod. All sod shall be healthy, strongly rooted and not less than two (2) yeas old, free of weeds and undesirable native grasses in 16" x 24" pads, 1-1/2" thick. Sod shall conform to "Nursery Grown" grade as established by American Sod Producers Association (ASPA) Sod shall be considered free of weeds if less than 5 weeds are found per 100 square feet of area. Brown, dry irregularly smooth, and/or unfresh sod will be rejected.

LANDSCAPE PART 4 PLANTING PROCEDURES

General. Prior to commencement of any work, the Landscape Contractor shall inspect the site, locate planting areas, placement of guying devices, locate electrical cables, conduits, and other underground and above utilities so that proper precautions and procedures may be followed during and throughout construction. The Contractor shall become familiar with other job trade activity which has an impact upon his work or upon which his work has an impact and shall arrange to carefully coordinate his work with other trades through the Owner's Representative. All planting practices listed herein shall ensure healthy plant growth.

Layout. The location of plants, planting beds and plant quantities, are approximate. The locations and bed lines shall be staked on the project site by the Contractor and approved by the Owner's Representative before any plant pits or beds are dug. The Owner's Representative may adjust plant material locations to meet field conditions. Contractor shall make minor adjustment without additional cost to the Owner.

Finish Grades. The Landscape Contractor is responsible for all fine grading and preparation for planting. Finish grades (top of soil) for all sod areas after settlement shall be one-half inch below the top of abutting curbs, walks, walls and abutments. The finish grade of all planting beds prior to mulching shall be three inches below finish grade of sod, abutting curbs, walks and walls. Three inches of mulch shall be added to all plant beds after planting.

Planting Seasons/Times. The planting of plant materials and lawns may proceed at any time, period, or season agreed upon by the Contractor and Owner or Owner's Representative

Plant Installation. All plants existing rooball top shall be 0-1" above finished grade. Area surrounding tree shall excavated/loosened to 3X the width and 1X depth prior to installation. Plants shall be set plumb and straight. When backfilling tightly tamp layers in 6" lifts. Do not over compact. A ½" probe should be able to penetrate to a depth of the rootball with hand pressure. A 3" mulch layer shall be applied over rootball excluding the area 6" from the trunk/stem. Stake and install trees according to details. Trees shall be secured loosely and allow trunk to sway. Sod. All areas to be either seeded, sprigged, or sodded shall be prepared in a manner to ensure normal, vigorous and healthy growth.

Fine grade lawn areas to smooth, even surface with with lose, uniformly fine texture. Roll, rake and drag lawn areas, remove ridges and fill depressions with topsoil as required to meet finish grades. In areas to be sodded, allow for sod thickness.

Sod Installation. Lay sod in straight, parallel rows to form a solid mass with tightly fitted joints, without overlap. Stagger strips to offset joints. Work topsoil into minor cracks. On 1:3 slopes or greater, lay sod with long dimension of pads parallel to contours and stake sod as necessary to stabilize. Drive sod stakes flush with top of sod.

Sprigging and Seeding. Sprigging/seeding shall be done in a manner to ensure a quick grow-in period achieving a uniform green lawn prior to final acceptance.

LANDSCAPE PART 5 MAINTENANCE

Plant Material. Maintain all plant materials until Final Acceptance. Maintenance shall include all required watering, cultivation, weeding, mowing, pruning, wound dressing, immediate replacement of dead and unacceptable material, straightening plants which lean or sag, adjustment of plants which are planted too low, and any other procedure consistent with good horticultural practice necessary to ensure normal, vigorous and healthy growth of all planting under the Contract.

Lawn. Maintain lawns until Final Acceptance. Reset settled or eroded sod areas to proper grade. Fill open joints with topsoil. Keep sod free of insects and disease.

LANDSCAPE PART 6 FINAL INSPECTION AND ACCEPTANCE

Final Cleanup. Upon final completion of work and before inspection and acceptance, all aspects of the project site shall be thoroughly and completely cleaned of debris, stains, materials, defacements, and temporary facilities. Likewise, any repairs which are the obligation of this Contractor shall be completed.

Initial Inspection and Acceptance. Inspection shall be made by the Owner or Owner's Representative within (10) ten days of written notification from the Contractor that installation is complete. If all work and materials meet specifications, project will be accepted as is. Materials and work not in compliance with specifications shall be rejected by Owner's Representative and replaced by the contractor within (15) fifteen days of notification by Owner's Representative. Notification will graphically depict all rejected material on plans. Upon replacement of all rejected work and materials by the Contractor, the Owner's Representative shall conduct a final inspection within ten (10) days of written notification from the Contractor that all rejected work has been replaced according to specifications. Approval will be granted upon the acceptance of all replaced material noted on plans. After final acceptance, the Contractor will not be responsible for damage to work resulting from: neglect by Owner, conditions such as floods, excessive wind, severe freezing or abnormal rains; or other activities clearly beyond the Landscape Contractor's control.

LANDSCAPE PART 7 GUARANTEE

Guarantee. All plant materials and trees installed by the Contractor shall be guaranteed for 365 days from the date of final acceptance. The Contractor shall replace at no additional cost to the Owner, all plant materials which die and/or which are not healthy and in a good growing condition during the guarantee period. Replacement of such material shall occur within ten (10) days from Owner's written notification to the Contractor. The 365-day guarantee period for replaced plant materials shall commence on the date of acceptance of the replaced item or items of plant material. The Contractor shall not be required to replace, repair, or restore any portion of the work that is damaged, defaced, disturbed, improperly maintained, and/or destroyed by others after final acceptance.

IRRIGATION PART 1 GENERAL NOTES

Scope. This section includes irrigation and supplementary work shown on the drawings and specified herein, complete.

Applicable Documents. The following publications, specifications, and standards of the issues listed in this paragraph (including the amendments and addenda designated), but referred to hereinafter by basic designation only, form a part of this specification to the extent required by the references thereto.

Publication of Reference. Publications as herein listed shall be held in basic reference:

- HANDBOOK OF TECHNICAL IRRIGATION INFORMATION by Hunter Industries Inc. - 1996
- THE COMPLETE IRRIGATION WORKBOOK by Larry Keesen - 1995
- PUBLICATIONS, NOTES, AND PAPERS by The Center of Irrigation Technology, California State University - Fresno, California
- PUBLICATIONS and STANDARDS by The Florida Irrigation Society - Orlando, Florida
- PUBLICATIONS by The Irrigation Association - Falls Church, Virginia INSTALLATION GUIDE FOR PVC

Irrigation Quantities. All irrigation material quantities shown in the plans are approximate. The Contractor shall be fully responsible for determining all quantities. The Contractor shall submit a revised irrigation schedule with final irrigation quantities as part of the contract and prior to construction.

On-Site Conditions and Adjustments. Irrigation equipment shown on the plans is approximate. Irrigation shall be adjusted to fit actual as-built conditions on the site and any changes in locations caused thereby shall be made without additional cost to the Owner, Owner's Representative, or Landscape Architect.

Liability of Contractor. The Contractor shall be liable for any and all damages to property that result from his performance. He shall, without extra cost and by licensed contractors, restore to original condition any areas and/or construction damaged, defaced, disturbed, or destroyed by him or his workmen.

Substitution of Materials. Any substitution from the specified brands, models or sizes shall be submitted to the owner or the owner's representative for approval. Material substitutions or design changes must be shown to comply with the system design intent and rectify any necessary performance changes and be in compliance with all city, state, and federal regulations.

IRRIGATION PART 2 INSTALLATION PROCEDURES

General. Prior to commencement of any work the Irrigation Contractor shall obtain all necessary permits and licenses, inspect the site and locate electrical cables, conduits, and other underground and above utilities so that proper precautions and procedures may be followed during and throughout construction. The Contractor shall become familiar with other job trade activity which has an impact upon his work or upon which his work has an impact and shall arrange to carefully coordinate his work with other trades through the Owner's Representative.

Backflow Prevention. Backflow preventer shall be installed according to manufacturer's recommendations.

Filters and Strainers. Filter/Strainers shall be installed per manufacturer's recommendations.

Irrigation Controller. The irrigation controller shall be UL listed, conform to the provisions of the National Electric Code, and properly grounded in accordance with manufacturer's recommendations.

Rainfall Shutoff Device. A rain sensor shall be installed as close as possible to the control equipment and per manufacturer's recommendations. Install the first 18 inches of rain sensor wire below ground level and all wire above ground in conduit. When systems are pressurized by a pump, provision shall be made to ensure shutoff device does not allow pump to activate.

Pipe.

1. Pipe shall be installed at sufficient depth below ground to protect it from hazards such as vehicular traffic. Landscape vehicular traffic areas are those landscaped areas subject to vehicular use such as traffic crossings, parking areas, etc. Depths of cover shall conform to NRCS-FL- 430-DD, Water Conveyance, as follows:
   a. Landscaped Vehicle Traffic Areas - Landscaped areas subject to routine automotive or heavy equipment traffic.

| Pipe Size (Inches) | Depth of Cover* (inches) |
|---|---|
| 1/2" - 2-1/2" | 18" |
| 3"-5" | 24" |
| 6" and larger | 36" |

   b. Non-Traffic and Non-Cultivated Areas

| Pipe Size (Inches) | Depth of Cover* (inches) |
|---|---|
| 1/2" - 1-1/2" | 6" |
| 2"-3" | 12" |
| 4"-6" | 18" |
| More than 6" | 24" |

2. The trench bottom must be uniform, free of debris, and of sufficient width to properly place pipe and support it over its entire length. Make all pipe joints and connections according to the material manufacturer's recommendations. Perform all solvent-weld connections in accordance with ASTM D-2855. Contractor shall install all piping and related materials in accordance with the manufacturer's specifications and the following standards: ASTM D-1785-99, ASTM D-2241-00, ASTM D-2466-01, ASTM D-2464-99, ASTM D-2239-99, ASTM D-2564-96a, ASTM F-656-96a, ASTE S435.
3. Thrust blocks are required on all fittings at dead ends and whenever the line changes direction of 30 degrees or more. Thrust blocks shall be installed in a manner to ensure no pipe shifting occurs. Size thrust blocks in accordance with ASAE Standard S-376.2.
4. Contractor shall flush irrigation system installation at the appropriate stages based on commercially accepted methods.
5. After installation, flushing, and inspection or testing, contractor shall backfill the pipe trench with soil free from rocks or stones larger than 1-inch in diameter in a commercially accepted manner.

Pipe Sleeving. Pipe sleeves shall be at least two pipe sizes larger than the carrier pipe or twice the diameter of the wire bundle to be placed under the paving or roadway, and extending a distance at least equal to its installed depth beyond the paved area. Schedule 40 PVC pipe shall be used for sleeves.

Valves. Valve installation shall allow enough clearance for proper operation and maintenance. Where valves are installed underground, they shall be provided with a valve box with cover extending from grade to the body of the valve. The top of the valve body should have a minimum of 6 inches of cover in non-traffic and non-cultivated areas and 18 inches of cover in traffic areas.

Locate manually operated control valves so they can be operated without wetting the operator.

Valve Boxes. Contractor shall install valve boxes according to the manufacturer's recommendations.

Wire. Electrical control wire shall be sized in accordance with the valve manufacturer's specifications. Install only UL listed direct burial low voltage wire (30 volts or less) with a minimum depth of cover of 12 inches. Provide a sufficient length of wire at each connection to allow for thermal expansion/shrinkage. As a minimum, provide a 12-inch diameter loop at all splices and connections. Terminations at valves will have 24" minimum free wire. Provide common wires with a different color than the power wires (white shall be used for common wires). Use wire connectors that are approved for direct burial. A valve box shall be used for all underground wire splices. Install all above-ground wire runs and wire entries into buildings in conduit.

Sprinklers. Install sprinklers plumb unless they are installed on slopes where they can be tilted as required to prevent erosion. Sprinklers shall be adjusted to avoid unnecessary discharge on pavements and structures. Provide a minimum separation of 4 inches between sprinklers and pavement and 12 inches between sprinklers and vertical structures or as local codes dictate. Riser-mounted sprinklers shall be supported. Swing joints shall be constructed to provide a flexible, leak-free connection between the sprinkler and lateral pipeline to allow movement in any direction and to prevent equipment damage.

Micro Irrigation. Micro-irrigation equipment shall be installed according to the manufacturer's recommendations for the specific application. Stake all surface tubing every three to six feet depending on site conditions and manufacturer's recommendations with eight inch staples.

IRRIGATION PART 3 TESTING, SUBMITTALS, FINAL INSPECTION AND ACCEPTANCE

Testing. All mainlines and laterals shall be tested to be free of leaks. Rainfall shutoff device shall be tested to ensure proper shut-off of control equipment.

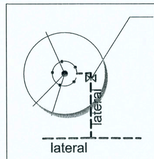
Cleanup. Upon final completion of work and before inspection and acceptance, all aspects of the project site shall be thoroughly and completely cleaned of debris, stains, materials, defacements, and temporary facilities. Likewise, any repairs which are the obligation of this Contractor shall be completed.

Inspections and Acceptance. Inspection shall be made by the Owner or Owner's Representative within (10) ten days of written notification from the Contractor that installation is complete. If all work and materials meet specifications, project will be accepted as is. Materials and work not in compliance with specifications shall be rejected by Owner's Representative and replaced by the contractor within (15) fifteen days of notification by Owner's Representative. Notification will graphically depict all rejected material on plans. Upon replacement of all rejected work and materials by the Contractor, the Owner's Representative shall conduct a final inspection within ten (10) days of written notification from the Contractor that all rejected work has been replaced according to specifications. Approval will be granted upon the acceptance of all replaced material noted on plans.

Post Construction Documentation & Instruction. The Contractor shall provide manufacturer's product literature, operation manuals, testing and inspection certificates, and record drawings to the owner or owner's representative. Record drawings shall show all changes in the design to indicate the actual installation sizes, types, and locations of all equipment and materials with the application for final payment. Contractor shall provide minimal instruction to owner, if applicable, describing any need to know information regarding the daily operation of the system.

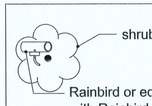
IRRIGATION PART 4 GUARANTEES

The irrigation system contractor shall assume full responsibility for the proper installation of the system. Contractor shall guarantee the installation workmanship for a minimum period of one (1) year from date of final acceptance. The irrigation system contractor shall make all necessary, reasonable efforts to handle any warranty claims within the guarantee period in a reasonable time period. The Contractor shall not be required to replace, repair, or restore any portion of the work without additional service fees that are damaged, defaced, disturbed, and/or destroyed by others after final acceptance. Repairs made by other licensed contractors during the guarantee period shall not void the guarantee.



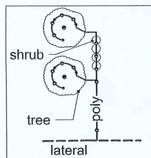

Install Antelco Green Back or equal shut-off valve at all trees except bald cypress in detention area. Install Rainbird or equal XFD blank tubing around each tree with appropriate amount of equally spaced drip emitters. Quantity of Rainbird XB-#PC or equal emitters per tree shall be specified on the irrigation sheet. Drip shall encircle tree and be offset 2" from edge of rootball. Terminate drip encircling each tree with a compression hose end flush cap.

Detail for individual tree drip
Not To Scale




Rainbird or equal XFD blank tubing with Rainbird XB-#PC or equal emitter at same precipitation rate installed overtop of rootball or attach 1/4" tubing to emitter with bug cap to reach plant rootball off of 1/2" tubing when applicable. Use ground staples to secure emitter locations.

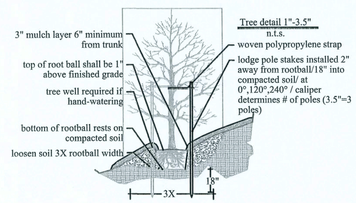
Detail for shrub emitters
Not To Scale

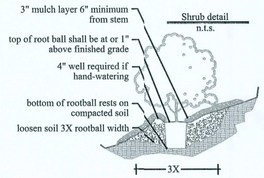



Install Rainbird or equal XFD blank tubing around each tree with specified amount of equally spaced drip emitters. Quantity of Rainbird XB-#PC or equal emitters per tree shall be specified on the irrigation sheet. Drip shall encircle tree and be offset 2" from edge of rootball. Terminate drip encircling each tree with a compression hose end flush cap. Use ground staples to secure emitter locations.

Detail for tree & shrub drip lateral
Not To Scale

Use ground staples to secure emitter locations. Pressure regulators shall be used in appropriate locations so all emitters receive pressures between 20-50 psi.




BORTON DESIGN INC.
1314 N.KELWAY POINT, ST.PAUL, FLORIDA
CERT. OF AUTH. # LC26002403
(863) 234-8618 BDB@BORTONDESIGN.COM

ZONING DEPARTMENT COLUMBIA COUNTY FLORIDA APPROVED

# LANDSCAPE PLAN
## Specifications/Details

COMMERCIAL RETAIL STORE - BIRLEY
PREPARED FOR
CONCEPT DEVELOPMENT, LLC.

| | | | |
|---|---|---|---|
| BDI NO. | 18076 | REVISIONS: | |
| DRAWN BY: | BDB | | |
| DESIGNED BY: | BDB | | |
| CHECKED BY: | BDB | | |
| DATE: | 2-18-2019 | | |

PLANS PREPARED BY
BRIAN DAVID BORTON FL. NO.: LA0667028

LS-03

# ALTA/NSPS LAND TITLE SURVEY

LYING IN SECTION 5, TOWNSHIP 4 SOUTH, RANGE 16 EAST,
CCLUMBIA COUNTY, FLORIDA

## LEGAL DESCRIPTION:

A PARCEL OF LAND SITUATED IN SECTION 5, TOWNSHIP 4 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA, BEING A PORTION OF THE LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 1218, PAGE 992 OF THE PUBLIC RECORDS OF SAID COLUMBIA COUNTY, SAID PARCEL BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHEAST CORNER OF THE SOUTHWEST QUARTER (SW 1/4) OF SAID SECTION 5, TOWNSHIP 4 SOUTH, RANGE 16 IAST FOR THE POINT OF REFERENCE; THENCE RUN SOUTH 88°19'59" WEST, ALONG THE SOUTH LINE OF SAID SW 1/4, A DISTANCE OF 41.89 FEET TO THE WESTERLY RIGHT OF WAY LINE OF S.W. BIRLEY AVENUE (RIGHT OF WAY WIDTH VARIES) AS DESCRIBED IN OFFICIAL RECORDS BOOK 974, PAGE 2142 OF SAID PUBLIC RECORDS; THENCE RUI NORTH 02°19'18" WEST, ALONG SAID WESTERLY RIGHT OF WAY LINE, A DISTANCE OF 356.52 FEET TO THE NORTHEAST CORNER OF THE LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 1291, PAGE 2605 OF SAID PUBLIC RECORDS AND THE POINT OF BEGINNING; THENCE CONTINUE NORTH 02°19'18" WEST ALONG SAID WESTERLY RIGHT OF WAY BNE, A DISTANCE OF 340.87 FEET; THENCE RUN NORTH 60°44'26" WEST, ALONG SAID WESTERLY RIGHT OF WAY LINE, A DISTANCE OF 31.42 FEET TO THE NORTH LINE OF THE AFOREMENTIONED LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 1218, PAGE 992 AND THE SOUTHERLY RIGHT OF WAY LINE OF COUNTY ROAD NO. 252 (S.W. PINEMOUNT ROAD)(A 1O FOOT RIGHT OF WAY); THENCE RUN SOUTH 60°50'25" WEST, ALONG SAID NORTH LINE AND ALONG SAID SOUTHERLY RIGHT OF WAY LINE, A DISTANCE OF 305.70 FEET TO THE NORTHWEST CORNER OF SAID LANDS; THENCE RUN SOUTH 02°27'59" EAST, ALONG THE WEST LINE OF SAID LANDS, A DISTANCE OF 215.90 FEET TO THE NORTHWEST CORNER OI THE AFOREMENTIONED LANDS DESCRIBED IN OFFICIAL RECORDS BOOK 1291, PAGE 2605; THENCE RUN NORTH 88°19'59" EAST, ALONG THE NORTH LINE OF SAID LANDS, A DISTANCI OF 299.01 FEET TO THE POINT OF BEGINNING.

CONTAINING 2.01 ACRES (87,417 SQUARE FEIT), MORE OR LESS.

## SURVEYOR'S NOTES:

1. THE BEARINGS SHOWN HEREON ARE BASED O‌N FIELD MEASUREMENTS PROJECTED FROM A RECORD BEARING OF N88°19'59"E, ALONG THE SOUTH LINE OF THE SUBJECT PARCEL.

2. ELEVATIONS SHOWN HEREON ARE BASED ON GPS MEASUREMENTS ON THE GEODETIC REFERENCE SYSTEM 1980 (GEOID 12A) FROM THE FLORIDA PERMANENT REFERENCE NETWORK (FPRN). ALL ELEVATIONS SHOWN HEREON ARE NORTH AMERICAN VERTICAL DATUM OF 1988. ALL SITE BENCHMARIS SHOULD BE CHECKED AND VERIFIED BEFORE USE.

3. THIS SURVEY WAS PERFORMED WITH THE BENFIT OF A TITLE COMMITMENT FROM FIRST AMERICAN TITLE INSURANCE COMPANY, FILE NUMBER 2017-541, HAVING AN EFFECTIVE DATE OF OCTOBER 20, 2017 @ 8:00 A.M.

4. NO UNDERGROUND INSTALLATION OF UTILITIES ‌OR IMPROVEMENTS HAVE BEEN LOCATED EXCEPT AS SHOWN.

5. THE SURVEYOR HAS NO KNOWLEDGE OF UNDEGROUND FOUNDATIONS WHICH MAY ENCROACH.

6. RECORDED EASEMENTS AND/OR DEEDS NOT FIRNISHED TO THE SURVEYOR ARE NOT SHOWN.

7. THE SUBJECT PROPERTY LIES WITHIN FLOOD ZNE "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS SHOWN ON FLOOD INSURANCE RATE MAP NUMBER 12023C0290C FOR COLUMBIA COUNTY, FLORIDA AND INCORPORATED AREAS, EFFECTIVE DATE FEBRUARY 4, 2009, FOR COLUMBIA COUNTY, COMMUNITY NUMBER 120070 PANEL NUMBER 029‌D SUFFIX C.

8. THE SUBJECT PARCEL HAS A CURRENT LAND ISE OF AGRICULTURE-3 AND CURRENT ZONING OF A-3. THE SETBACKS ARE: FRONT = 25', SIDE = 10', REAR = 15', SIDE SIREET = 25'; MAXIMUM BUILDING HEIGHT IS 35', MAXIMUM LOT COVERAGE = 40%. ZONING AND SETBACK INFORMATION SHOWN HEREON WAS PROVIDED BY THE CLIENT AND SHOULD BE VERIFIED WITH THE COUNTY BEFORE DESIGN AND DEVELOPMENT.

9. THERE ARE NO PAVED PARKING SPACES (REGLAR OR HANDICAPPED) ON THE SUBJECT PARCEL.

10. THE NORTHEAST CORNER OF THE SUBJECT PARCEL LIES AT THE INTERSECTION OF COUNTY ROAD 252 (S.W. PINEMOUNT ROAD) (A 100 FOOT PUBLIC RIGHT OF WAY) AND S.W. BIRLEY AVENUE (A VARIABLE WIDTH PUBLIC RIGHT OF WAY).

11. THERE IS NO CURRENT EARTHWORK OR CONSTRUCTION ON THE SUBJECT PARCEL.

12. THIS SURVEYOR HAS NO KNOWLEDGE OF PLAIS TO CHANGE ANY RIGHTS OF WAY OR SIDEWALKS NEAR THE SUBJECT PARCEL.

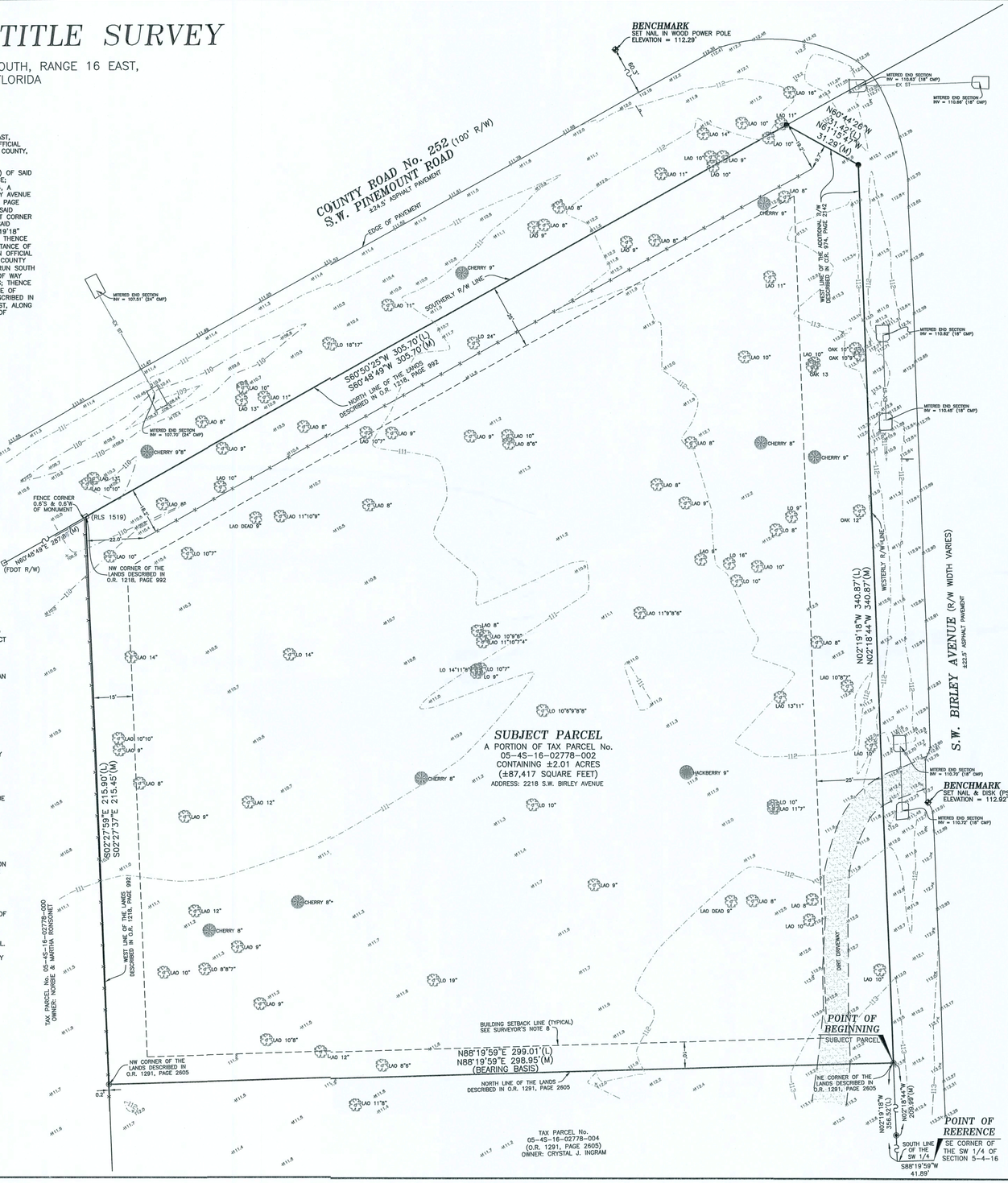
13. THERE IS NO EVIDENCE THAT THE SUBJECT PARCEL IS BEING USED AS A SOLID WASTE DUMP, SUMP, OR SANITARY LANDFILL.

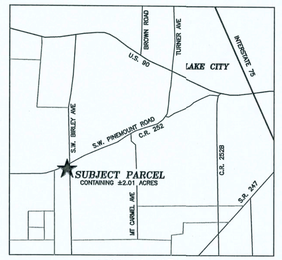
14. THIS SURVEYOR IS NOT AWARE OF ANY WETLANDS ON THE SUBJECT PARCEL.

15. THE SUBJECT PARCEL IS ENCUMBERED BY THE FOLLOWING ITEMS AS PER SCHEDULE B-II OF THE FURNISHED TITLE COMMITMENT:

ITEMS 1-7: THE SUBJECT PARCEL IS AFECTED BY THE STANDARD EXCEPTIONS TO COMMITMENT FOR TITLE INSURANCE (UNPLOTTABLE, IOT SHOWN HEREON).

16. ALL RECORDING INFORMATION SHOWN HEREON IS IN REFERENCE TO THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA.




VICINITY MAP
(NOT TO SCALE)

LEGEND:
- ◉ = FOUND 5/8" REBAR & CAP (LB 7683)
- ⊡ = FOUND 4"x4" CONCRETE MONUMENT (AS NOTED)
- ● = SET 5/8" REBAR & CAP (P.S 6602)
- (M) = MEASURED
- (L) = LEGAL DESCRIPTION DATA
- S.F. = SQUARE FEET
- O.R. = OFFICIAL RECORDS BOOK
- R/W = RIGHT OF WAY
- CMP = CORRUGATED METAL PIPE
- INV = INVERT
- 105.00 = SPOT ELEVATION
- = BENCHMARK
- = METAL SIGN
- —X— = EXISTING 4' METAL FENCE LINE
- —EX ST— = EXISTING STORM PIPE
- = DIRT DRIVEWAY

GRAPHIC SCALE

20 0 10 20 40 80

( IN FEET )
1 inch = 20 ft.

ZONING DEPARTMENT COLUMBIA COUNTY, FLORIDA APPROVED

## SURVEYOR'S CERTIFICATION:

TO:
CONCEPT DEVELOPMENT, INC.
CONCEPT CONSTRUCTION OF NORTH FLORIDA, INC.
PROVIDENCE TITLE COMPANY, LLC
FIRST AMERICAN TITLE INSURANCE COMPANY

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6(B), 8, 9, 11, 13, 14, 16, 17, 18, AND 19 OF TABLE A THEREOF.

THE FIELD WORK WAS COMPLETED ON 4/25/18
DATE OF PLAT OR MAP: 4/26/18

LEIGH ANN FLOWERS
PROFESSIONAL SURVEYOR & MAPPER
FLA. LICENSE NO. 6602


FLOWERS SURVEYING AND MAPPING INC
207 SE CONDOR GLEN
HIGH SPRINGS, FLORIDA 32643
PHONE: (386) 454-8147
EMAIL: FLOWERSSURVEYING@GMAIL.COM

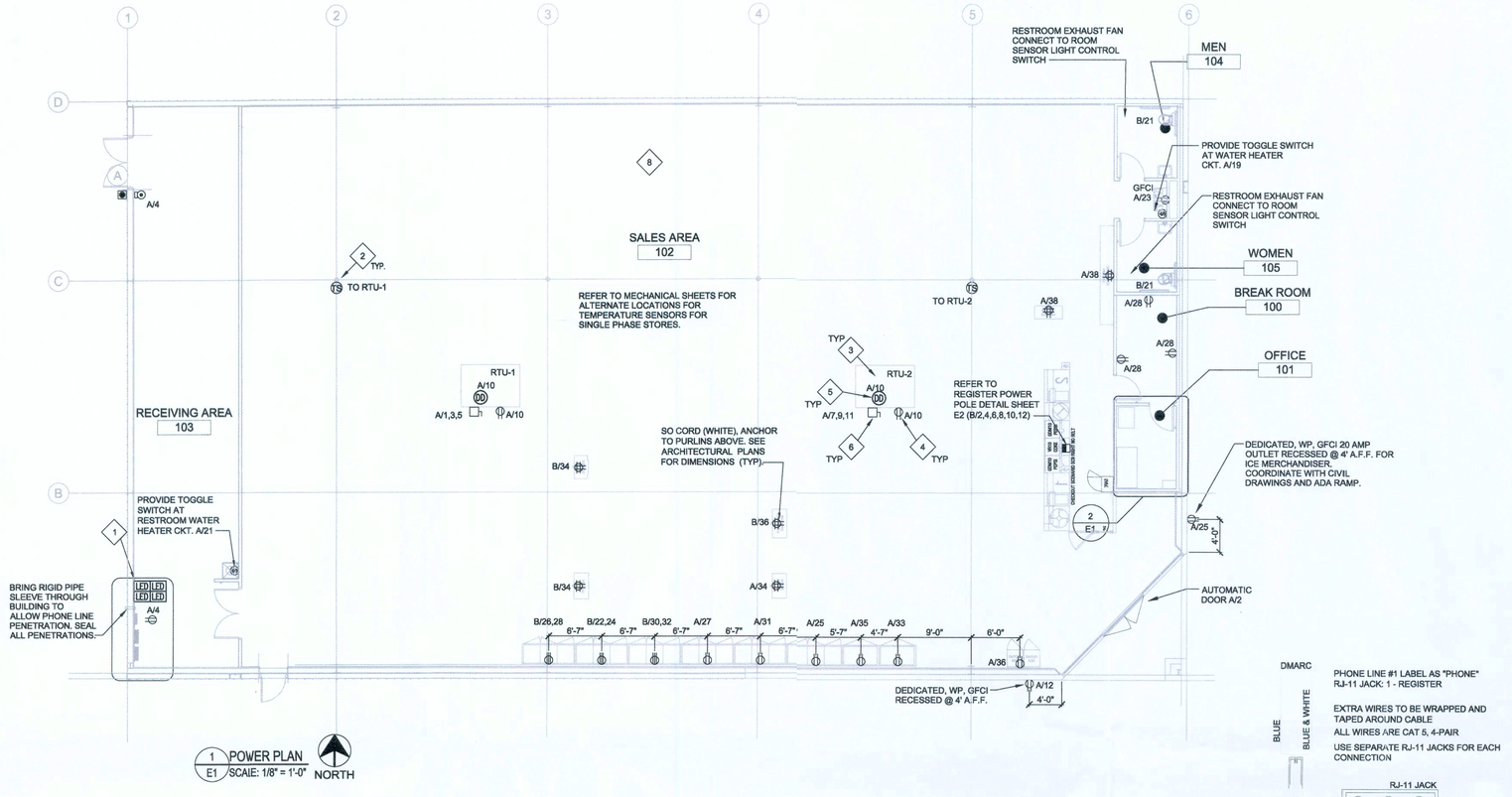

JOB NUMBER: 18-070
FIELD BOOK - SEE FOLDER
DRAFTED: LAF
CHECKED: LAF
SURVEY DATE: 4/25/18
SHEET 1 OF 1

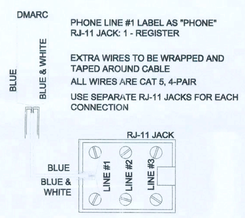
CERTIFIED TO:
SEE SURVEYOR'S CERTIFICATION

LEIGH ANN FLOWERS
SEE SURVEYOR'S CERTIFICATION
PROFESSIONAL SURVEYOR & MAPPER
FLA. LICENSE NO. 6602


NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. ADDITIONS OR DELETIONS TO THIS MAP BY ANYONE OTHER THAN THIS SURVEYOR IS PROHIBITED.

I HEREBY CERTIFY THAT THE SURVEY DATA SHOWN HEREON, IS A TRUE AND CORRECT REPRESENTATION OF A SURVEY PERFORMED UNDER MY DIRECTION AND SUPERVISION AND THAT IT MEETS OR EXCEEDS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN 5J-17, FLORIDA STATUTES, AND CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODE.




4 REGISTER PHONE WIRING
E1 SCALE: N.T.S.

| LEGEND | |
|---|---|
| SYMB | DESCRIPTION |
| | BUZZER - TORK MDL #TA725 W/ TRANSFORMER MDL#TA592 |
| · | COMMERCIAL GRADE PUSH BUTTON |
| A/23 | 125V NEMA 5-20R DUPLEX. PANEL/CIRCUIT IN PANEL |
| | 125/250V NEMA L14-20-R 4 PRONG TWIST LOCK |
| · | 125V NEMA 5-20R QUAD |
| · | DISCONNECT |
| · | BLACK MAGIC POWER POLE |
| ▲ | PHONE JACK @ REGISTER |
| | RJ-11, RJ-45 DATA JACK, PHONE COMBO @ OFFICE |
| A/23 | PANEL/CIRCUIT IN PANEL |
| $m | PROVIDE OCCUPANCY LIGHT SENSOR- LEVITON ODS10-IDW |
| $ | 20 AMP TOGGLE SWITCH |
| NL | NIGHT LIGHT CIRCUIT |

## ELECTRICAL SPECIFICATIONS

A. ALL WIRING SHALL SHALL BE CONTAINED IN CONDUIT OF PROPER SIZE.

B. ALL WIRING SHALL CONFORM TO LOCAL, STATE AND FEDERAL CODES.

C. SERVICE IS TO BE A MINIMUM 400 AMP, 3 PHASE (PREFERRED), 600 AMP, 1 PHASE OR LARGER IF REQUIRED BY CODE OR ELECTRICAL LOAD.

D. REQUIRED CUSTOM BUILT POWER POLE ASSEMBLIES AVAILABLE FROM D&P CUSTOM LIGHTS & PRODUCTS INC., PHONE: (800) 251-2200 OR (615) 350-7800, 7111 COCKRILL BEND INDUSTRIAL ROAD, NASHVILLE, TN 37209. SEE E3.1.

E. EXTERIOR EXPOSED PHONE LINES TO BE INSTALLED IN RIGID CONDUIT. PROVIDE EMERSON 3/4" X 5-FT. METALLIC CABLE U-GUARD #755, OR EQUAL.

F. ELECTRICAL PANEL TO BE LABELED CORRECTLY WITH LEGIBLE PRINT.

G. LOW VOLTAGE VENDOR TO PROVIDE AND INSTALL ONE (1) 24 GA., 4 TWISTED-PAIR, CATEGORY-FIVE (CAT5) DATA CABLE WITH MODULAR COMBO RJ-11/RJ-45 JACK AT MANAGER'S OFFICE. CABLE TO BE RUN FROM JACK TO DATA HUB LOCATION WITH 6'-0" LEFT COILED FOR INSTALLATION TO DATA HUB. A RJ-45 MALE FITTING SHOULD BE CRIMPED ON THIS END. DOLLAR GENERAL STORE OPENING TEAM WILL MAKE FINAL CONNECTION INTO THE DATA HUB.

H. PROVIDE 1 1/2" EMT CONDUIT TO ACT AS ACCESS SLEEVE TO ALLOW PHONE COMPANY TO TERMINATE AT DMARC. CONTRACTOR TO PROVIDE AND INSTALL PHONE WIRING & RJ-11 PHONE JACK FOR COMPLETED WORKING SYSTEM PRIOR TO PHONE COMPANY FINAL HOOK UP.

I. ALL 120 VOLT OUTDOOR RECEPTACLES TO HAVE "WET LOCATION - IN USE" COVERS.

J. ALL CONDUCTORS TO BE COPPER, #12 AWG MINIMUM SIZE, OR AS REQUIRED BY LOAD AND OVER CURRENT PROTECTION.

K. SEE EMS SHEETS EMS1 AND EMS2 FOR ENERGY MANAGEMENT SYMBOLS AND INFORMATION.

L. ELECTRICIAN TO PROVIDE 1 1/2" CONDUIT WITH PULL STRINGS FOR SATELLITE LOCATION.

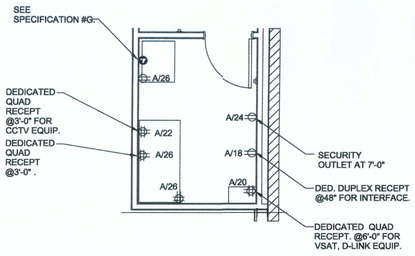
M. ALL POWER AND DATA TO BE ROUTED OVERHEAD. UNDER SLAB NOT ALLOWED.

N. WIRE SIZE TO BE #8 OR #10 FOR ALL COOLERS/FREEZERS.

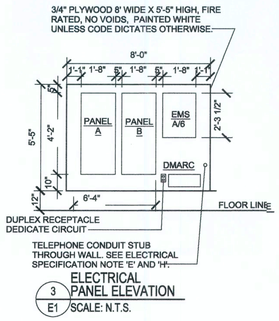
O. MOUNT ALL REFRIGERATOR OUTLETS AT 12" AFF.

## ELECTRICAL KEYED NOTES

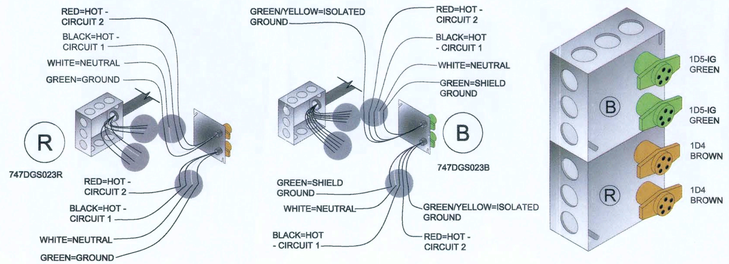
1. TEST/RESET STATION FOR STAND ALONE DUCT DETECTOR. ONE FOR EACH DEVICE, SEE KEY NOTE 5 ON THIS SHEET. SIMPLEX #4098-9842 IS SPECIFIED. WITH PIEZO AND LED INDICATOR
2. MECHANICAL THERMOSTAT AT 8'-0" A.F.F.
3. LOCATIONS SHOWN FOR MECHANICAL UNITS ARE ONLY APPROXIMATE. CONTRACTOR MUST CONSULT MECHANICAL OR STRUCTURAL DRAWINGS TO DETERMINE ACTUAL UNIT LOCATIONS. PROVIDE 1/2"C. PENETRATION THRU ROOF WITHIN FOOTPRINT OF UNIT FOR USE WITH CONTROL WIRING TO UNIT BY OTHERS. PROVIDE PROPER WATERSEAL. (TYPICAL)
4. FACTORY MOUNTED CONVENIENCE OUTLET (ELECTRICAL CONTRACTOR TO PROVIDE IF NOT FACTORY INSTALLED). PROVIDE CIRCUIT AS SHOWN, WIRE ALL WITH THIS NOTE TO A SPARE BREAKER IN PANEL "A" IF THEY ARE NOT POWERED.
5. PHOTOELECTRIC DUCT DETECTOR WITH HOUSING. TIE TO LED READOUT RECESSED IN DUCT. STAND ALONE DEVICE, 120V. SIMPLEX #4098-9687 IS SPECIFIED WITH 4098-9842 CONTROL STATION. PROVIDE ONE DEVICE PER UNIT. MOUNT DEVICE IN SUPPLY AIR DUCTWORK. DEVICE SHALL BE PROVIDED AND WIRED TO THE CONTROL STATION BY THE ELECTRICAL CONTRACTOR. HIRE THE MECHANICAL CONTRACTOR FOR INSTALLATION IN DUCTWORK & CONNECTION TO SHUTDOWN CONTROLS. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED RELAYS AND 120V POWER, DO NOT POWER DUCT DETECTORS FROM HVAC UNIT LOW VOLTAGE. SUBMIT SHOP DRAWINGS FOR APPROVAL. PLACE ANY REQUIRED LABELING ON CEILING TILE DIRECTLY BELOW UNIT. RUN CONDUIT & WIRE UNDERGROUND FROM UNIT TO INSIDE OF SPACE.
6. MOUNT DISCONNECT SWITCH AT UNIT. ALL DISCONNECTS TO BE HEAVY DUTY. FUSES TO BE RK-5 TYPE, BUSSMANN FRN-R-(AMP) IS SPECIFIED. SEE EQUIPMENT SCHEDULE ON E3.1.
7. SO WHITE ELECTRICAL CORD IS NEEDED. SEE SHEET A1, NOTE 26.
8. CONFIRM THE FINAL NUMBER AND LOCATION OF OUTLETS IN SALES AREA WITH THE FINAL DG FIXTURE PLAN.




2 ENLARGED OFFICE PLAN
E1 SCALE: N.T.S.




3 ELECTRICAL PANEL ELEVATION
E1 SCALE: N.T.S.




| REGISTER ELECTRICAL COMPONENTS | | | |
|---|---|---|---|
| QTY | PART NUMBER | DESCRIPTION | VENDOR |
| 1 | 747DGS023B | DUAL CIRCUIT POWER KIT WITH ISOLATED GROUND | D & P |
| 1 | 747DGS023R | DUAL CIRCUIT POWER KIT | D & P |
| 1 | 747DGS044-12BK | 12' 2CH REGULAR POLE W/2-C & 1-D CONNECTOR DRW #2004-12 | |
| 1 | 747DGS032A | 10' CABLE KIT (SET OF 4 WHIPS) | |

*NOTE: BEFORE ORDERING AND INSTALLATION OF ELECTRICAL COMPONENTS FOR REGISTERS, CONSULT FINAL FIXTURE PLAN FOR NUMBER AND LOCATION.

MAXIMUM CIRCUITS FOR REGISTERS:
- CIRCUITS AT MAIN REGISTER - (9) 110V
- CIRCUITS AT ISLAND REGISTER - (3) 110V

4 REGISTER ELECTRICAL DETAIL
E1 SCALE: N.T.S.

#38274


M DESIGN ENGINEERING, INC.
SUSTAINABLE DESIGN & ENERGY MANAGEMENT SOLUTIONS
Nawwaf A. Ahmad, P.E., LEED AP
(407) 756-8202 / (321) 251-0077 Fax: Call for Number
www.mpdesigneng.com / nawwaf.ahmad@mpdesigneng.com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CONCEPT COMPANIES
3324 W. University Ave. Gainesville, FL 32607
PH: 877-309-1029 / FAX: 800-216-7809
WWW.CONCEPTCOMPANIES.NET


DOLLAR GENERAL®
2144 SW BIRLEY AVE.
LAKE CITY, FL 32024
2018 PROTOTYPE - PLAN 91906 - 9,100 SQ. FT.

COLUMBIA COUNTY BUILDING DEPARTMENT
FILE COPY
Reviewed By
Date
Compliance
PLANS EXAMINER

Revisions

SEAL DATE: 7/29/19

NAWWAF A. AHMAD
LICENSE
No. 56095
STATE OF FLORIDA
PROFESSIONAL ENGINEER

NAWWAF AHMAD, P.E.

| | |
|---|---|
| DRAWING DATE: / DRAWN BY: | 4/5/19 - NSA |
| REVISION DATE: / REVISED BY: | |
| PROJECT NUMBER: | 4000.170 |
| DRAWING TITLE: | POWER PLAN |
| SHEET NO. | E1 |

DESIGNER NOTE:
Emergency Lighting requirements are to be confirmed by the Engineer of record.

DESIGNER NOTE:
Provide site lighting circuit as required for lighting criteria

MOTION SENSOR (TYP)

NOTE: ALL INTERIOR LIGHTS CIRCUIT TO PANEL B

SALES FLOOR LIGHTS 11' AFF

RECEIVING AREA LIGHTS MOUNT 10'-12' AFF

* CIRCUIT B/33 TO BE USED FOR SIDE WALLPACKS. USUALLY ONLY ONE SIDE IS REQUIRED TO IE ILLUMINATED. USE SPARE CIRCUITS WHEN NEEDED. ROUTE THRU CONTACTOR C: ON EMS2.

COORDINATE BUILDING SIGN SIZE WITH DOLLAR GENERAL SIGN DEPARTMENT BY EMAILING TO SIGNAGE@DOLLARGENERAL.COM. LOCATE JBOX ON INTERIOR OF PARAPET AND CENTER ON METAL PANEL.

COORDINATE BUILDING SIGN SIZE WITH DOLLAR GENERAL SIGN DEPARTMENT BY EMAILING TO SIGNAGE@DOLLARGENERAL.COM. LOCATE JBOX ON INTERIOR OF PARAPET AND CENTER ON BUILDING.

EMERGENCY/EXIT SIGNS AND LIGHTS: INSTALL EMERGENCY LIGHTS AND EXIT SIGNS (CENTERED AT 10'-6" AFF TO BE ABOVE FIXTURES & MERCHANDISE) THROUGHOUT THE BUILDING IN COMPLIANCE WITH ALL APPLICABLE CODES.

1" PVC SCH 40 UNDER GRADE TO SITE LIGHTING. B/29

1" PVC SCH 40 UNDER GRADE TO PYLON SIGN. B/25

1 LIGHTING PLAN
E2 SCALE: 1/8" = 1'-0"

NORTH

ELECTRICAL DMARC AND EMS PANELS IN RECEIVING AREA.
CONDUIT #1: PROVIDE 1-1/2" CONDUIT TO CABLE TRAY.

CONDUIT #3: 1" CONDUIT FROM SALES REGISTERS TO CABLE TRAY.

VOICE AND DATA PORT.
CONDUIT #2: PROVIDE 1" CONDUIT FROM VOICE/DATA PORT TO CABLE TRAY.

LOCATION OF OFFICE HUB BELOW. BUNDLE ALL WIRES AND RUN TO CABLE TRAY.

2 CABLE TRAY & CONDUIT DIAGRAM
E2 SCALE: N.T.S.

## LEDS LIGHT FIXTURE SCHEDULE

| SYMBOL | TYPE | MANF. | PART # | DESCRIPTION | W |
|---|---|---|---|---|---|
| | A | ETI | 54573161 | 4' LED FIXTURE AERIAL MOUNT INCLUDES (2) 8 FT CABLES | 33 |
| | A1 | ETI | 54573161 | 4' LED FIXTURE SURFACE MOUNT | 33 |
| | B | ETI | 54260161 | 2' LED FIXTURE SURFACE MOUNT | 20 |
| | C | ETI | 55301101 | LED EXIT SIGN | – |
| | D | ETI | 55502201 | LED EXIT SIGN / EMERGENCY LIGHT COMBO WITH (2) HEADS | – |
| | E | ETI | 55501101 | LED EMERGENCY LIGHT WITH (2) HEADS | – |
| | F | ETI | 55503101 | LED EGRESS EMERGENCY LIGHT WITH (2) HEADS | – |
| | G | TECHLIGHT | LHSWP-1-C-4-T3-F1-BZ | LED WALL PACK | 38 |
| | H | TECHLIGHT | LSBT-1-C-X-T3-F1-BZ ON WMUPS42 | LED AREA LIGHT ON WALL MOUNT 42" EXTENSION ARM | 147 |
| | S | TECHLIGHT | (2) LSBT-1-C-X-T3-F1-BZ ON SS3P-24-4-11-BZ-DM2180 | (2) LED AREA LIGHTS ON 24' POLE | 294 |

NOTE: REFER TO SHEET "T01" FOR NATIONAL ACCOUNT VENDORS LIST

2-POLE TIMECLOCK
INTERMATIC OR EQUAL

TYP. BRANCH CIRCUIT

B-3 B-5 B-7 B-9 B-11 B-13 B-15

H
120V, 20AMP W.P. OVERRIDE TOGGLE SWITCH LOCATED ADJACENT TO "L" IN LOCKABLE ENCLOSURE
N

TO ALL INTERIOR LIGHTING

LIGHTING CONTRACTOR SHALL BE CONSIDERED AUTOMATIC TIME SWITCH CONTROL DEVICE PER FBC ENERGY CONSERVATION C405.2.2.1. PROGRAM AND INSTALL PER THIS REQUIREMENT.

NOTE:
ALL INTERIOR LIGHTING FIXTURES SHALL BE ROUTE THROUGH & CONTROLLED VIA LIGHTING CONTACTOR. LIGHTING & LIGHTING CONTROLS HAVE BEEN DESIGNED IN ACCORDANCE WITH 2014 FBC-ENERGY CONSERVATION SECTION C405.1-C405.6

4 INTERIOR LIGHTING CONTROL DIAGRAM "LC-1"
E2 SCALE: N.T.S.

SALES AREA 70% LTG
SALES AREA 30% LTG
RECEIVING AREA LTG

SW A SW A SW A

48" A.F.F.

PROVIDE LAMACOID LABEL WITH AREA NAME FOR LIGHT SWITCHES; PROVIDE A CONTACTOR FOR EACH SALES GROUP OF LIGHTS AS REQUIRED (OR INTEGRATE CONTROLS WITH EMS TO PROVIDE MANUAL SHUT OFF BY OCCUPANT)

KEY OPERATED TOGGLE SWITCHES 48" A.F.F., LEVITON #1221-2L-W, PROVIDE 4 KEYS

5 SWITCH BANK DETAIL
E2 SCALE: N.T.S.

2 1/4"
POWER
DATA 1
DATA 2
3 1/2"
POWER POLE PROFILE

TRIM KIT

1" 2" 3 3/4" 1/8"
1"
Ø1/4"

POWER POLE STRAP

2" 3" 3" 3"
1FS5-IG
1FS5-IG
1FS4
1FS4

MODULAR POWER POLE FOR S200-B COUNTER INSTALL (4) IG CIRCUITS 20A 120VAC, (4) NORMAL CIRCUITS 20A 120VAC

12'-6", 13'-6", 14'-6", 15'-6" VERSIONS, ALL WITH 4" DATA ACCESS AT BOTTOM

3 CH POLE

POWDER COAT BLACK

186" 182" 186"

1D5-IG 1D4 10" 6" 1" 1D5-IG 1D4 8" 4" 4"

BLOCKER INSET 2"

½" HOLE THRU ALL 1" UP WITH GROMMET FOR DATA CABLE

DATA COVER AND ADD-ON DATA CHANNEL

STOP 4" SHORT OF BOTTOM FOR DATA PULL ACCESS

NO SHARP EDGES

3 REGISTER POWER POLE
E2 SCALE: N.T.S.

SEAL DATE: 7/29/19

NAWWAF A. AHMAD LICENSE No. 56095 STATE OF FLORIDA PROFESSIONAL ENGINEER

NAWWAF AHMAD, P.E.


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DOLLAR GENERAL
2144 SW BIRLEY AVE.
LAKE CITY, FL 32024
STORE # 19930
2018 PROTOTYPE - PLAN 9100E - 9,100 SQ. FT.

| | |
|---|---|
| DRAWING DATE / DRAWN BY: | 4/5/19 - NSA |
| REVISION DATE / REVISED BY: | |
| PROJECT NUMBER: | 4000.170 |
| DRAWING TITLE: | LIGHTING PLAN |
| SHEET NO. | E2 |

| NOTES | MOUNT: SURFACE | | | 120/208 | 3-PHASE, 4W | | PANEL | A | | CAPACITY: 400A | | | INT CAP: 400KA | | | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LOCATION: BACK OF BLDG. | | | | | | LUGS: | MCB | | DEMAND LOAD: 287A | | | AV. FAULT: 32 KA | | | |
| | CKT | LTG | REC | HVAC | MISC | NP | DESCRIPTION | AMP | POLE | Φ | AMP | POLE | DESCRIPTION | LTG | REC | HVAC | MISC | NP | CKT | |
| | 1 | | | 11.2 | | | RTU 1 | 100 | 3 | A | 20 | 1 | AUTOMATIC DOOR | | | 0.1 | | 2 | C | |
| | 3 | | | 11.2 | | | | | | B | 20 | 1 | PHONE BOARD/BUZZER | | | 0.4 | | 4 | C | |
| | 5 | | | 11.2 | | | | | | C | 20 | 1 | ENERGY MANAGEMENT | | | 0.2 | | 6 | C | |
| | 7 | | | 11.2 | | | RTU 2 | 100 | 3 | A | 20 | 1 | SPARE | | 0.2 | | | 8 | | |
| | 9 | | | 11.2 | | | | | | B | 20 | 1 | OUTDOOR HVAC REC | | 0.7 | | | 10 | | |
| | 11 | | | 11.2 | | | | | | C | 20 | 1 | OUTDOOR DRINK VEND | | 0.2 | | | 12 | | |
| | 13 | | | 13.5 | | | PANEL B | 200 | 3 | A | 20 | 1 | SPARE | | | | | 14 | | |
| | 15 | | | 13.5 | | | | | | B | 20 | 1 | SPARE | | | | | 16 | | |
| | 17 | | | 13.5 | | | | | | C | 20 | 1 | INTERFACE EQUIP | | | 0.5 | | 18 | | |
| C | 19 | | | | 1.7 | | WATER HEATER | 20 | 1 | A | 20 | 1 | VSAT SATA HUB EQUIP | | | 0.5 | | 20 | | |
| C | 21 | | | | 1.7 | | WATER HEATER | 20 | 1 | B | 20 | 1 | CCTV EQUIP | | | 1.0 | | 22 | | |
| | 23 | | | | 0.2 | | DRINKING FOUNTAIN | 20 | 1 | C | 20 | 1 | SECURITY REC | | 0.2 | | | 24 | C | C |
| C | 25 | | 0.2 | | | | OUTDOOR ICE REC | 20 | 1 | A | 20 | 1 | OFFICE REC | | 0.7 | | | 26 | C | |
| C | 27 | | | | 1.2 | | COOLER #1 | 20 | 1 | B | 20 | 1 | BREAK ROOM REC | | 0.5 | | | 28 | | |
| C | 29 | | | | 1.2 | | COOLER #2 | 20 | 1 | C | 20 | 1 | SPARE | | 0.5 | | | 30 | | |
| C | 31 | | | | 1.2 | | COOLER #3 | 20 | 1 | A | 20 | 1 | SPARE | | 0.5 | | | 32 | | |
| C | 33 | | | | 1.2 | | COOLER #4 | 20 | 1 | B | 20 | 1 | ICE CREAM FREEZER | | 0.2 | | | 34 | C | |
| C | 35 | | | | 1.6 | | COOLER #5 | 20 | 1 | C | 20 | 1 | GATORADE | | 0.8 | | | 36 | C | |
| | 37 | | | | | | SPARE | 20 | 1 | A | 20 | 1 | SPARE | | | | | 38 | | |
| | 39 | | | | | | SPARE | 20 | 1 | B | 20 | 1 | SPARE | | | | | 40 | | |
| | 41 | | | | | | SPARE | 20 | 1 | C | 20 | 1 | SPARE | | | | | 42 | | |

| PHASE BALANCE | | | LOAD TYPE | CONNECTED | DEMAND | DEMAND FORMULA | TOTAL LOAD | |
|---|---|---|---|---|---|---|---|---|
| | LOAD | % | LIGHTING | 0.0 KVA | 0.0 KVA | LOAD X 125% NEC 210.19 CONTINUOUS | CONNECTED | DEMAND |
| A | 40.9 KVA | 33% | RECEPTACLE | 4.7 KVA | 4.7 KVA | 0KVA + 50% REMAINDER NEC 220.44 | 124.9 KVA | 103.4KVA |
| B | 42.7 KVA | 34% | HVAC | 197.5 KVA | 88.0 KVA | LOAD X 80% (USED MCA IN CALCULATION) | 346.6A | 286.9A |
| C | 41.2 KVA | 33% | MISC | 12.7 KVA | 12.7 KVA | LOAD X 100% NEC 210.19 NON-CONT. | FILENAME: | |
| | | | NP | 0.0 KVA | 0.0 KVA | NONCOINCIDENTAL LOADS NEC 220.60 | SCHEME CD 208 LOAD.xls | |

NOTES:
A. AIC RATING: SERIES RATED AT 200,000 AMPS WITH BUSSMANN JJN FUSES.
B. BREAKERS FOR HVAC UNITS SHALL BE SIZED PER MANUFACTURER REQUIREMENTS.
C. BREAKER LOCK.
D. ISOLATED GROUND BUS.

| NOTES | MOUNT: SURFACE | | | 120/208 | 3-PHASE, 4W | | PANEL | B | | CAPACITY: 200A | | | INT CAP: 200KA | | | NOTES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | LOCATION: BACK OF BLDG. | | | | | | LUGS: | MCB | | DEMAND LOAD: 122A | | | AV. FAULT: 32KA | | | |
| B,C | CKT | LTG | REC | HVAC | MISC | NP | DESCRIPTION | AMP | POLE | Φ | AMP | POLE | DESCRIPTION | LTG | REC | HVAC | MISC | NP | CKT | |
| B,C | 1 | 0.4 | | | | | NIGHT LTS | 20 | 1 | A | 20 | 1 | PWR TERM BROWN | | | | 1.2 | 2 | C | |
| B,C | 3 | 0.2 | | | | | RECEIVING LTS | 20 | 1 | B | 20 | 1 | PWR TERM BROWN | | | | 1.2 | 4 | C | |
| B | 5 | 0.8 | | | | | 70% SALES LTS | 20 | 1 | C | 20 | 1 | PWR TERM GREEN | | | | 1.2 | 6 | C | |
| B | 7 | 1.4 | | | | | 70% SALES LTS | 20 | 1 | A | 20 | 1 | PWR TERM GREEN | | | | 1.2 | 8 | C | |
| B | 9 | 1.4 | | | | | 70% SALES LTS | 20 | 1 | B | 20 | 1 | PWR TERM GREEN | | | | 1.6 | 10 | C | |
| B | 11 | 0.8 | | | | | 70% SALES LTS | 20 | 1 | C | 20 | 1 | PWR TERM GREEN | | | | 1.6 | 12 | C | |
| B | 13 | 1.3 | | | | | 30% SALES LTS | 20 | 1 | A | 20 | 1 | SPARE | | | | 1.6 | 14 | C | |
| B | 15 | 1.0 | | | | | 30% SALES LTS | 20 | 1 | B | 20 | 1 | SPARE | | | | 1.6 | 16 | C | |
| | 17 | | | | | | SPARE | 20 | 1 | C | 20 | 1 | SPARE | | | | | 18 | | |
| C | 19 | 0.1 | | | | | EMERGENCY/EXIT LTS | 20 | 1 | A | 20 | 1 | SPARE | | | | | 20 | | |
| C | 21 | 0.2 | | 0.1 | | | BREAK/OFFICE LTS/EF'S | 20 | 1 | B | 20 | 2 | FREEZER #1 | | | | 1.6 | 22 | C | |
| B | 23 | 1.2 | | | | | BUILDING SIGN | 20 | 1 | C | | | | | | | 1.6 | 24 | | |
| B | 25 | 0.9 | | | | | PYLON SIGN | 20 | 1 | A | 20 | 2 | FREEZER #2 | | | | 1.6 | 26 | C | |
| | 27 | | | | | | SPARE | 20 | 1 | B | | | | | | | 1.6 | 28 | | |
| B | 29 | 1.2 | | | | | SITE LIGHTING | 20 | 1 | C | 20 | 2 | FREEZER #3 | | | | 1.6 | 30 | C | |
| B | 31 | 0.8 | | | | | EXTERIOR LTS | 20 | 1 | A | | | | | | | 1.6 | 32 | | |
| B | 33 | 0.9 | | | | | FRNT WALL/CANPY LTG | 20 | 1 | B | 20 | 1 | SODA COOLERS | | | | 1.6 | 34 | C | |
| B | 35 | 0.9 | | | | | EXTERIOR LTS | 20 | 1 | C | 20 | 1 | DRINK COOLERS | | | | 1.6 | 36 | C | |
| B | 37 | 0.9 | | | | | EXTERIOR LTS | 20 | 1 | A | 70 | 3 | | | | | | 38 | | |
| B | 39 | 0.9 | | | | | EXTERIOR LTS | 20 | 1 | B | | | | | | | | 40 | | |
| B | 41 | 0.5 | | | | | EXTERIOR DUSK/DAWN | 20 | 1 | C | | | | | | | | 42 | | |

| PHASE BALANCE | | | LOAD TYPE | CONNECTED | DEMAND | DEMAND FORMULA | TOTAL LOAD | |
|---|---|---|---|---|---|---|---|---|
| | LOAD | % | LIGHTING | 15.9 KVA | 19.9 KVA | LOAD X 125% NEC 210.19 CONTINUOUS | CONNECTED | DEMAND |
| A | 13.0 KVA | 33% | RECEPTACLE | 0.0 KVA | 0.0 KVA | 10KVA + 50% REMAINDER NEC 220.44 | 40.0 KVA | 44.0KVA |
| B | 13.9 KVA | 35% | HVAC | 0.1 KVA | 0.1 KVA | LOAD X 80% (USED MCA IN CALCULATION) | 111.0A | 122.0A |
| C | 13.1 KVA | 33% | MISC | 24.0 KVA | 24.0 KVA | LOAD X 100% NEC 210.19 NON-CONT. | FILENAME: | |
| | | | NP | 0.0 KVA | 0.0 KVA | 0 NONCOINCIDENTAL LOADS NEC 220.60 | SCHEME CD 208 LOAD.xls | |

NOTES:
A. AIC RATING: SERIES RATED AT 200,000 AMPS WITH BUSSMANN JJN FUSES.
B. ROUTING TO THE EMIS PANEL.
C. BREAKER LOCK.
ISOLATED GROUND BUS. D.

| 120/208 | 3-PHASE, 4W | PANEL | LOAD | CAPACITY: 400A | |
|---|---|---|---|---|---|
| LOAD TYPE | CONNECTED | DEMAND | DEMAND FORMULA | TOTAL LOAD | |
| LIGHTING | 10.2 KVA | 12.8 KVA | LOAD X 125% NEC 210.19 CONTINUOUS | CONNECTED | DEMAND |
| RECEPTACLE | 5.1 KVA | 5.1 KVA | 10KVA + 50% REMAINDER NEC 220.44 | 88.4 KVA | 83.7KVA |
| HVAC | 36.4 KVA | 29.1 KVA | LOAD X 80% (USED MCA IN CALCULATION) | 245.3A | 232.2A |
| MISC | 36.7 KVA | 36.7 KVA | LOAD X 100% NEC 210.19 NON-CONT. | FILENAME: | |
| NP | 0.0 KVA | 0.0 KVA | 0 NONCOINCIDENTAL LOADS NEC 220.60 | DG-9100-CD-208.xlsx | |

## RTU'S DISCONNECT SIZE

| RTU# | MFG. | PHASE/VOLT. | MCA | OCPD | HEAT | MODEL NUMBER |
|---|---|---|---|---|---|---|
| #1 | LENNOX | 3-208V | 93A | 100A | ELECTRIC | LCH122U4EJ1Y |
| -#2 | LENNOX | 3-208V | 93A | 100A | ELECTRIC | LCH122U4EJ1Y |
| CALL LENNOX | | | | | | |

## UTILITY TRANSFORMER FAULT CALCULATION

| SERVICE ENTRANCE | | CALCULATION |
|---|---|---|
| VOLTAGE (L-L): | 208V | I-FLA=[RATED KVA * 1000/ |
| PHASE (PH): | 3 | [V-LL*SQRT(PHASE)] |
| AMPS: | 400A | I-FLA= 416A |
| FULL LOAD KVA: | 144KVA | |
| TRANSFORMER: | 150KVA | M=100/%Z= 93.5 |
| IMPEDANCE (%Z): | 1.1%Z | I-SC=I-FLA*M= 39 KA |

CALCULATION IS BASED ON ESTIMATED TRANSFORMER SIZE WITH %Z FROM BUSSMANN SPD. CONTRACTOR SHALL CONTACT UTILITY AND VERIFY I-SC AVAILABLE AT SECONDARY OF TRANSFORMER. CONTACT ENGINEER FOR RE-CALCULATION IF LARGER THAN CALCULATED.

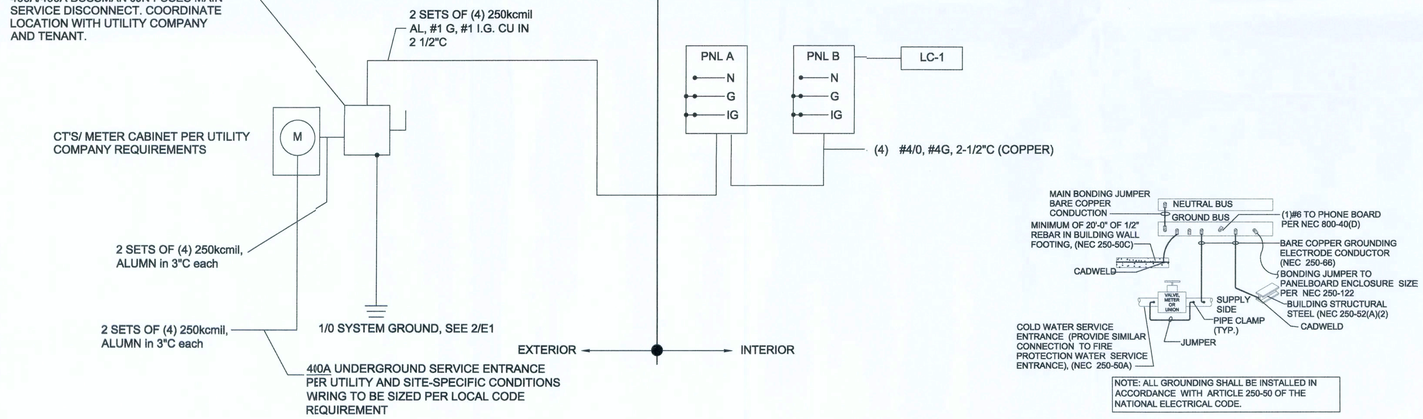
## MOTOR LOAD FAULT CALCULATION

| | | |
|---|---|---|
| STARTING I-SC: | 39 KA | CALCULATION |
| MOTOR LOAD (KVA): | 36KVA | I-SC(ML)=I-ML*6= 606A |
| MOTOR LOAD (A): | 101A | I-SC=I-SC+I-SC(ML)= 40 KA |

## FEEDER FAULT CALCULATION

| | | |
|---|---|---|
| STARTING I-SC: | 40 KA | IMPEDANCE BASED ON 3 SINGLE |
| VOLTAGE (L-L): | 208V | CONDUCTORS IN NON-MAGNETIC |
| PHASE (PH): | 3 | CONDUIT |
| FEEDER SIZE: | 250 | CALCULATION |
| FEEDER MATERIAL: | AL | *f=[SQRT(PHASE)*L*IS-C)/ |
| PARALLEL SETS (Q): | 2 | [Q*C*V-LL] |
| FEEDER LENGTH (L): | 20FT | f= 0.256 |
| FEET PER OHMS (C): | 12,862 FT/OHMS | M=1/(1+f)= 0.796 |
| | | I-SC=I-SC*M= 31 KA |

*f FOR SINGLE PHASE SYSTEMS, FEEDER LENGTH IS DOUBLED AND VOLTAGE IS LINE-NEUTRAL (OR V*LL/2)




1 E5.1 400A SERVICE
SCALE: N.T.S.




NOTE: ALL GROUNDING SHALL BE INSTALLED IN ACCORDANCE WITH ARTICLE 250-50 OF THE NATIONAL ELECTRICAL CODE.

2 E5.1 GROUNDING DETAIL
SCALE: N.T.S.

THESE PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING CODES & REGULATIONS:

- 2014 NFPA 70 (NATIONAL ELECTRICAL CODE)
- 2017 FLORIDA FIRE PREVENTION CODE (6TH ED.)
- 2013 NFPA 72
- 2015 NFPA 101 (LIFE SAFETY CODE
- 6TH EDITION OF THE FLORIDA BUILDING CODE (2017)
- 6TH EDITION OF FBC ENERGY CONSERVATION CODE (2017)

## VOLTAGE DROP

THIS PROJECT IS IN COMPLIANCE WITH 2014 FBC-ENERGY CONSERVATION C405.7.3 & NEC 210.19 WITH REGARDS TO VOLTAGE DROP FOR BOTH FEEDER/CUSTOMER-OWNED SERVICE CONDUCTORS (2%) & BRANCH CIRCUIT CONDUCTORS (3%).

SEA. DATE: 7/29/19

NAWWAF A. AHMAD LICENSE No. 56095 STATE OF FLORIDA PROFESSIONAL ENGINEER

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LAKE CITY, FL 32024
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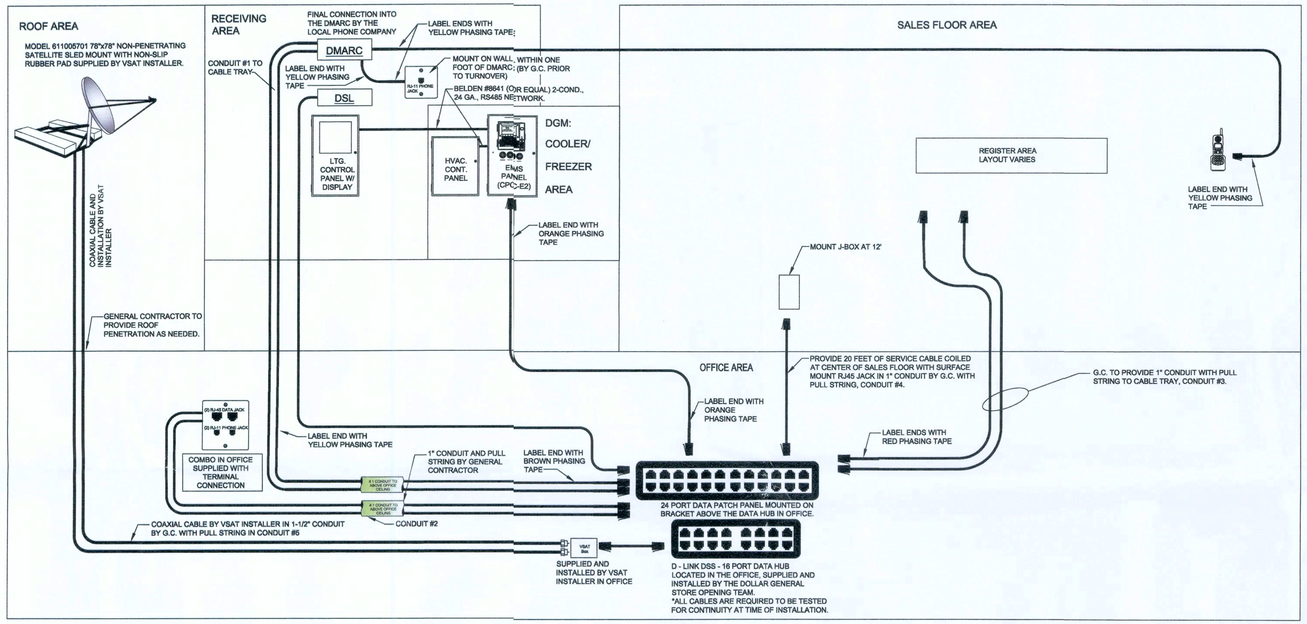
2018 PROTOTYPE - PLAN 9100E - 9,100 SQ. FT.

| | |
|---|---|
| DRAWING DATE: / DRAWN BY: | 4/5/19 - NSA |
| REVISION DATE: / REVISED BY: | |
| PROJECT NUMBER: | 4000.170 |
| DRAWING TITLE: | PANEL SCHEDULE 3-PH |
| SHEET NO. | E3.1 |




| CONDUIT NUMBER | START | END | SIZE | CONDUIT RESPONSIBILITY | *CABLING RESPONSIBILITY |
|---|---|---|---|---|---|
| 1 | RECEIVING AREA | CABLE TRAY | 1-1/2" | GENERAL CONTRACTOR | LOW VOLTAGE VENDOR |
| 2 | OFFICE VOICE / DATA PORT | OFFICE (HUB) | 1" | GENERAL CONTRACTOR | LOW VOLTAGE VENDOR |
| 3 | OFFICE (HUB) | CABLE TRAY | 1" | GENERAL CONTRACTOR | LOW VOLTAGE VENDOR |
| 4 | CENTER OF SALES FLOOR CONNECTION | OFFICE (HUB) | 1" | GENERAL CONTRACTOR | LOW VOLTAGE VENDOR |
| 5 | SATELITE | OFFICE (HUB) | 1-1/2" | GENERAL CONTRACTOR | LOW VOLTAGE VENDOR |

*UNLESS OTHERWISE NOTED, ALL RESPONSIBILITIES SHOULD FOLLOW THIS CHART.

ALL CABLES AT THE OFFICE WILL NEED TO BE WRAPPED IN PHASING TAPE CONSISTENT WITH THE FOLLOWING COLORS:

- RED TAPE — CASH REGISTER DATA
- BLUE TAPE — ELEC. EMS DATA
- BROWN TAPE — OFFICE DATA
- ORANGE TAPE — COOLER/FREEZER EMS DATA
- YELLOW TAPE — PHONE CABLE TO DMARC

Wire Symbols

- RJ-45: 24 GA., 4 TWISTED PAIR, CATEGORY-FIVE (CAT 5) DATA CABLE WITH MODULAR RJ-45 END.
- RJ-11: 24 GA., 4 TWISTED PAIR, CATEGORY-FIVE (CAT 5) DATA CABLE WITH MODULAR RJ-11 END. USE ONLY THE BLUE & WHITE AND SOLID BLUE WIRES. ALL OTHER WIRES TO BE FOLDED BACK AND TAPED TO THE CABLE.
- COAXIAL CABLE WITH RF CONNECTOR

NOTES:

A. WHEN LOW VOLTAGE PERMITS ARE REQUIRED, THE GC/DEVELOPER/LLD IS RESPONSIBLE FOR OBTAINING ALL LOW VOLTAGE PERMITS.

B. LOW VOLTAGE VENDOR RESPONSIBLE FOR ALL WIRE MANAGEMENT IN CABLE TRAY.

C. GC TO PROVIDE AND INSTALL CABLE TRAY AND ALL CONDUIT.

SEAL DATE: 7/29/19

NAWWAF A. AHMAD LICENSE No. 56095 STATE OF FLORIDA PROFESSIONAL ENGINEER

NAWWAF AHMAD, P.E.

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DOLLAR GENERAL®

2144 SW BIRLEY AVE.
LAKE CITY, FL 32024

2018 PROTOTYPE - PLAN 91082 - 9,100 SQ. FT.
STORE # 19800

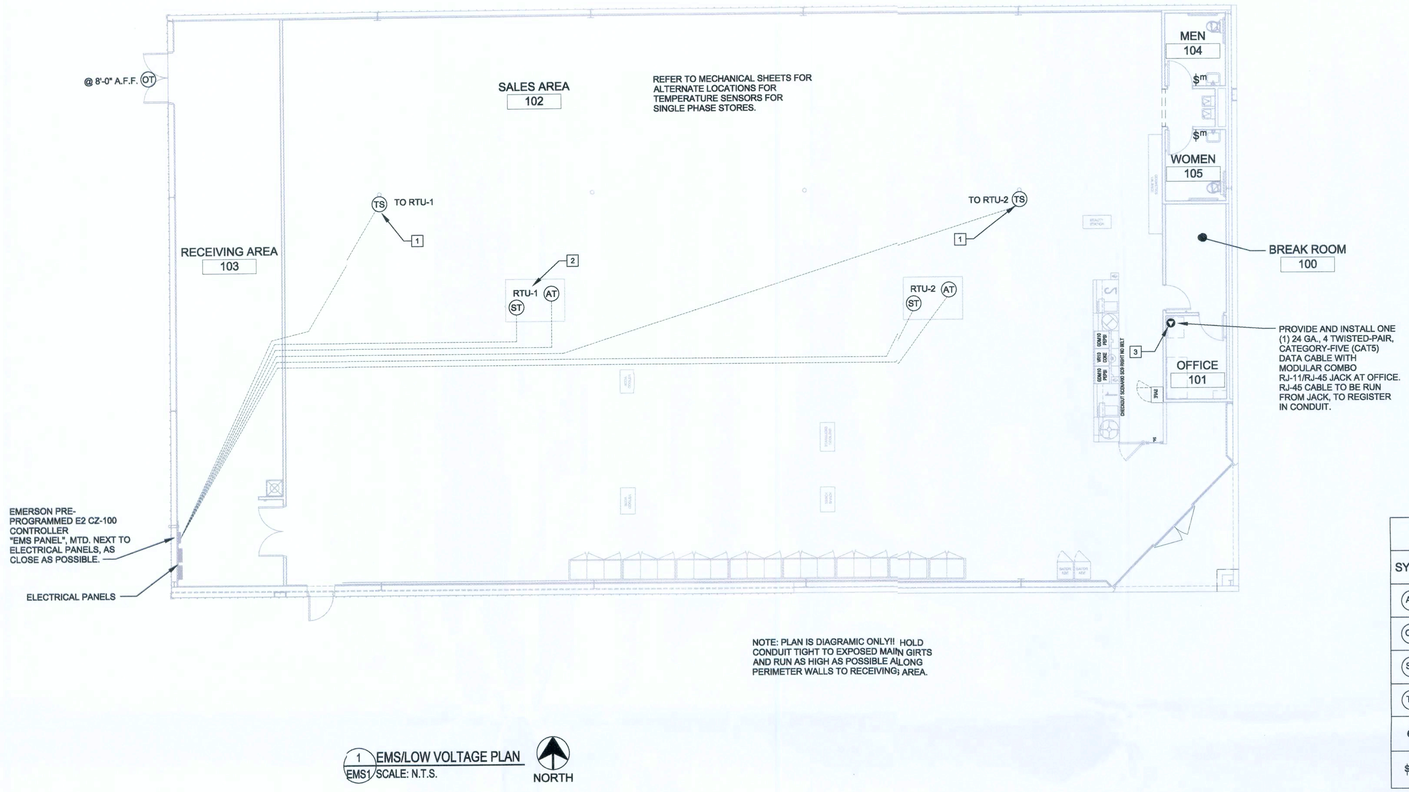
DRAWING DATE: / DRAWN BY:
4/5/19 - NSA

REVISION DATE: / REVISED BY:

PROJECT NUMBER:
4000.170

DRAWING TITLE:
DATA ROUTING & CCTV

SHEET NO.
E4




NOTE: PLAN IS DIAGRAMIC ONLY!! HOLD CONDUIT TIGHT TO EXPOSED MAIN GIRTS AND RUN AS HIGH AS POSSIBLE ALONG PERIMETER WALLS TO RECEIVING AREA.

1 EMS1 EMS/LOW VOLTAGE PLAN
SCALE: N.T.S.

NORTH

## GENERAL NOTES

A. REFER TO E1 FOR GENERAL CONTRACTOR RESPONSIBILITIES. E.C. MAY USE CABLE TRAY FORLOW VOLTAGE CABLES, SEE 2/E2.

B. RUN CONDUIT FROM SENSORS TO BOTTOM OF STRUCTURE.

C. REFRIGERATION UNITS TO BE CONNECTED TO EMS PANEL BY DOLLAR GENERAL REFRIGERATION CONTRACTOR.

## SENSOR PLAN KEYED NOTES

1. ALWAYS INSTALL THESE SENSORS AT 8'-0" A.F.F. THE EXACT MOUNTING LOCATION OF THE HVAC SENSORS "TS" MAY VARY DEPENDING ON THE STORE LAYOUT & DUCT CONFIGURATION. REFER TO SITE SPECIFIC MECHANICAL DRAWINGS FOR HVAC ZONED SENSOR MOUNTING LOCATIONS. IF SENSORS ARE MOUNTED ON EXTERIOR WALLS DUE TO DUCT CONFIGURATION, THEY ARE "HEN TO BE INSULATED TO PREVENT AIR INFILTRATION. IF ADDITIONAL HVAC UNITS ARE USED, ADD ADDITIONAL TEMPERATURE SENSORS "TS".
2. ADD ADDITIONAL HVAC UNIT WHEN REQUIRED.
3. PHONE LINE #1 - TWO RJ-11 PORTS. ONE (1) LOCATED IN OFFICE W/RJ-45 DATA JACK COMBO AND ONE (1) AT REGISTER. 24 GA, CAT 5, 4-PAIR TWISTED WIRE ONLY. USE BLUE AND BLUE & WHITE WIRES. HOOK TO LINE #1 TERMINAL IN RJ-11 JACK EACH PHONE JACK TO HAVE DEDICATED, SEPARATE HOME RUN TO DMARC. LABEL AS "PHONE" AT THE DESTINATION AND AT DMARC. PHONE COMPANY PROVIDES FINAL HOOK UP TO DMARC ONLY.PHONE LINE #2 - RJ-11 PHONE JACK SUPPLIED AND WIRED BY CONTRACTOR.

## DEVICE SCHEDULE

| SYMB | DESCRIPTION | CABLE TYPE | SUPPLIER | INSTALLER | NOTES |
|---|---|---|---|---|---|
| AT | AHU TERMINAL STRIP | 8C T-STAT CABLE | EMS SUPPLIER | GENERAL CONTRACTOR | (1) PER HVAC UNIT |
| OT | OUTDOOR AIR TEMP MOUNTED 8'-0" A.F.F. | BELDEN 8761 OR EQUIVALENT (22AWG, 2C, STRANDED, SHIELDED) | EMS SUPPLIER | GENERAL CONTRACTOR | (1) PER RECEIVING ENTRY |
| ST | SUPPLY TEMP (501-1121) IN SUPPLY DUCT | BELDEN 8761 OR EQUIVALENT (22AWG, 2C, STRANDED, SHIELDED) | EMS SUPPLIER | GENERAL CONTRACTOR | (1) PER HVAC UNIT |
| TS | TEMP SPACE SENSOR (809-6590) 8'-0" A.F.F. | BELDEN 8761 OR EQUIVALENT (22AWG, 2C, STRANDED, SHIELDED) | EMS SUPPLIER | GENERAL CONTRACTOR | (1) PER HVAC UNIT ZONE |
| ♻ | RJ-11/RJ-45 DATA JACK PHONE COMBO | CAT-5 DATA CABLE (24AWG, 4 TWISTED PAIR) | GENERAL CONTRACTOR | GENERAL CONTRACTOR | (1) AT OFFICE COMPUTER CART |
| $m | MOTION SENSOR SWITCH | LEVITON EZ-FIND ODS-10-IDW | GENERAL CONTRACTOR | GENERAL CONTRACTOR | (1) PER RESTROOM<br>(1) PER BREAK ROOM<br>(1) PER OFFICE |

FOR REFERENCE ONLY

SEA. DATE: 7/29/19

NAWWAF A. AHMAD LICENSE No. 56095 STATE OF FLORIDA PROFESSIONAL ENGINEER

NAWWAF AHMAD, P.E.

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STORE # 19930
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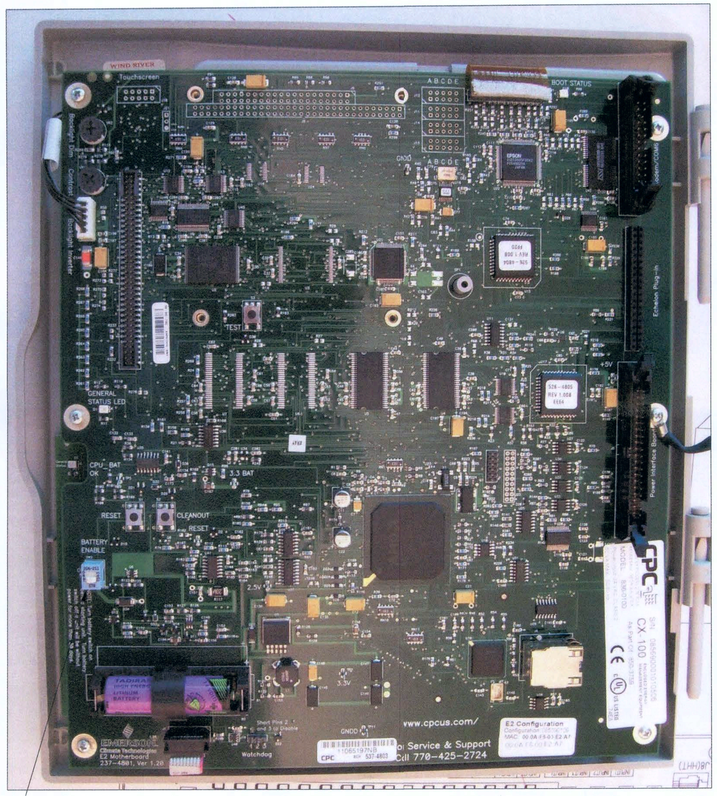
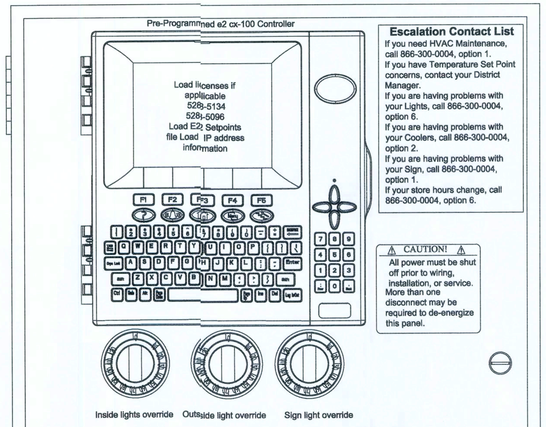
DRAWING DATE: / DRAWN BY: 4/5/19 - NSA
REVISION DATE: / REVISED BY:
PROJECT NUMBER: 4000.170
DRAWING TITLE: EMS/LOW VOLTAGE
SHEET NO.: EMS1




GENERAL CONTRACTOR TO ENSURE THAT THE BATTERY ENABLE IS SWITCHED TO THE "ON" POSITION

1 CPU TERMINAL DIAGRAM
EMS2 SCALE: N.T.S.




**Escalation Contact List**

If you need HVAC Maintenance, call 866-300-0004, option 1.
If you have Temperature Set Point concerns, contact your District Manager.
If you are having problems with your Lights, call 866-300-0004, option 6.
If you are having problems with your Coolers, call 866-300-0004, option 2.
If you are having problems with your Sign, call 866-300-0004, option 1.
If your store hours change, call 866-300-0004, option 6.

⚠ CAUTION! ⚠
All power must be shut off prior to wiring, installation, or service. More than one disconnect may be required to de-energize this panel.

**Verifying the Time and Date**
From the ⌂ Home screen.
1. The Date is in the upper left corner of the Home screen.
2. The Time is in the upper right corner of the Home screen.

**HVAC Control Status**
* Press the ⌂ Home screen button.
* Select F1 AHU.
* Using the arrow keys, highlight the appropriated HVAC Unit, select enter.
* From the screen you can view:
  i. Ctzl Temp (Control Temp) - The sales floor temp).
  ii. Values in [ ] represent the set point we are trying to maintain.
  iii. Space Temp (Temperature at problem on Sales Floor).
  iv. Supply Temp (Air Temp leaving AHU).
  v. Status of Fan/Heat/Cools.
* When complete, select the ⌂ Home button.

**Lighting Status**
* The status of Store Lights can be viewed in the bottom left corner of the ⌂ Home page, or by the following:
  * Press the ⌂ Home screen button.
  * Select F2 Lighting.
  * Highlight the appropriate Lighting Control, then select enter.
  * When complete, select the ⌂ Home button.

**Refrigerated Case Status**
* Case Temperature can be viewed from the ⌂ Home screen.

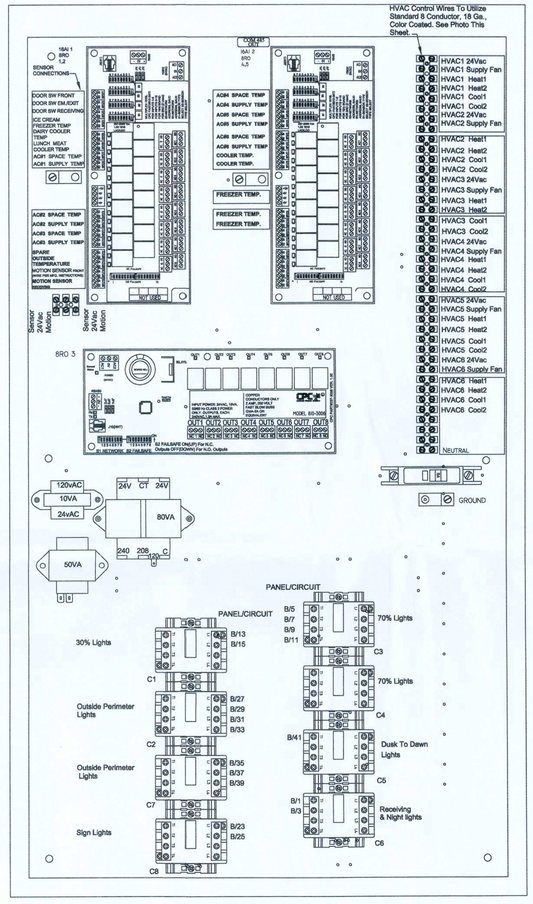
To view a graph of the case temperature:
i. Highlight the Temp value and select enter.
ii. Select 1 for graph.

To zoom select F5 Zoom-In.
(Press F5 Zoom-In as many times as necessary, get to the desired scale/range).
(Use the left and right arrow keys to move to the time/date range desired).
* When complete, select the ⌂ Home button.

**Alarm Status**
From the ⌂ Home screen, select Alarm button.
1. Date: The date the alarm occured.
2. Time: The time the alarm occured.
3. State: Notice, Alarm or Fail.
   * Notices are general warnings that notify a user of minor errors.
   * Alarms are warnings about important system conditions that need immediate attention.
   * Falls are high priority conditions, warning the user of a controller or device failure.
4. Property on Board and Point: The item that has generated the alarm.
5. Message: The description of the notice, alarm or fail.
   a. Using the up or down arrow keys, highlight the appropriate alarm and select F4 Expd. Info.
      i. Expd. Info: Expanded information will give the unit & detailed status on the alarm.
      ii. When finished viewing detailed status, select enter.
* When complete, select the ⌂ Home button.

2 PROGRAMMER CONTROLLER
EMS2 SCALE: N.T.S.

NOTE:
EMS SYSTEM SHOULD BE TESTED FOR HVAC OPERATION, INTERIOR LIGHTING, EXTERIOR LIGHTING AND SIGN LIGHTING PRIOR TO CONTRACTOR'S ELECTRICAL POSSESSION DATE. USE OUTSIDE LIGHT AND SIGN LIGHT OVERRIDE FOR EXTERIOR TESTING.




3 CONTROL WIRING DIAGRAM
EMS2 SCALE: N.T.S.

**TESTING NOTES**

TESTING OF HVAC UNITS THRU EMS PANEL IS ACCOMPLISHED BY SIMPLY WARMING UP OR COOLING DOWN A SPACE TEMPERATURE SENSOR (USING A BLOW DRYER OR ELECTRONIC EQUIPMENT DUSTER AEROSOL) AND WATCH THE FAN, HEAT AND COOL STAGES CYCLE ON AND OFF. THIS REQUIRES TWO PEOPLE AT ALL TIMES...ONE TO WATCH THE SCREEN AND THE OTHER TO WATCH OPERATION OF THE AHU. WHEN COMPLETE, PRESS THE HOME BUTTON TO RETURN TO THE MAIN SCREEN.

**EMS GENERAL NOTES**

1. EMS SUPPLIER NOTE: CUSTOMIZED DOLLAR GENERAL EMS PANEL REQUIRES STORE #, CITY, STATE, ZIP CODE & QTY. OF HVAC UNITS OF THE INSTALL SITE WHEN ORDERING. EMS SYSTEMS INSTALLATION GUIDE WITH PHOTOS IS AVAILABLE ON NATIONAL ACCOUNT WEBSITE. ALL QUESTIONS PERTAINING TO THE EMS PANEL, SYSTEM INSTALLATION & SETUP SHOULD BE DIRECTED TO EMERSON'S DOLLAR GENERAL SUPPORT TEAM AT 770-425-2724.
2. ALL SIGN & LIGHTING CIRCUITS MUST BE FED THROUGH THE DESIGNATED CONTACTORS AS NOTED ON THIS PAGE.
3. ALL LOW VOLTAGE HVAC & DOOR SENSORS MUST BE CONNECTED TO THE PROPER TERMINAL. 24 GA. SHIELDED (SHIELD MUST BE GROUNDED) CABLE, BELDEN #8641, 2 CONDUCTOR WIRE OR IT'S EQUIVALENT IS REQUIRED.
4. COOLER & FREEZER HOME RUNS WILL BE TERMINATED AT ALL POINTS BY DOLLAR GENERAL REFRIGERATION DEPARTMENT.

FOR REFERENCE ONLY

SEAL DATE: 7/29/19

NAWWAF A. AHMAD LICENSE No. 56095 STATE OF FLORIDA PROFESSIONAL ENGINEER

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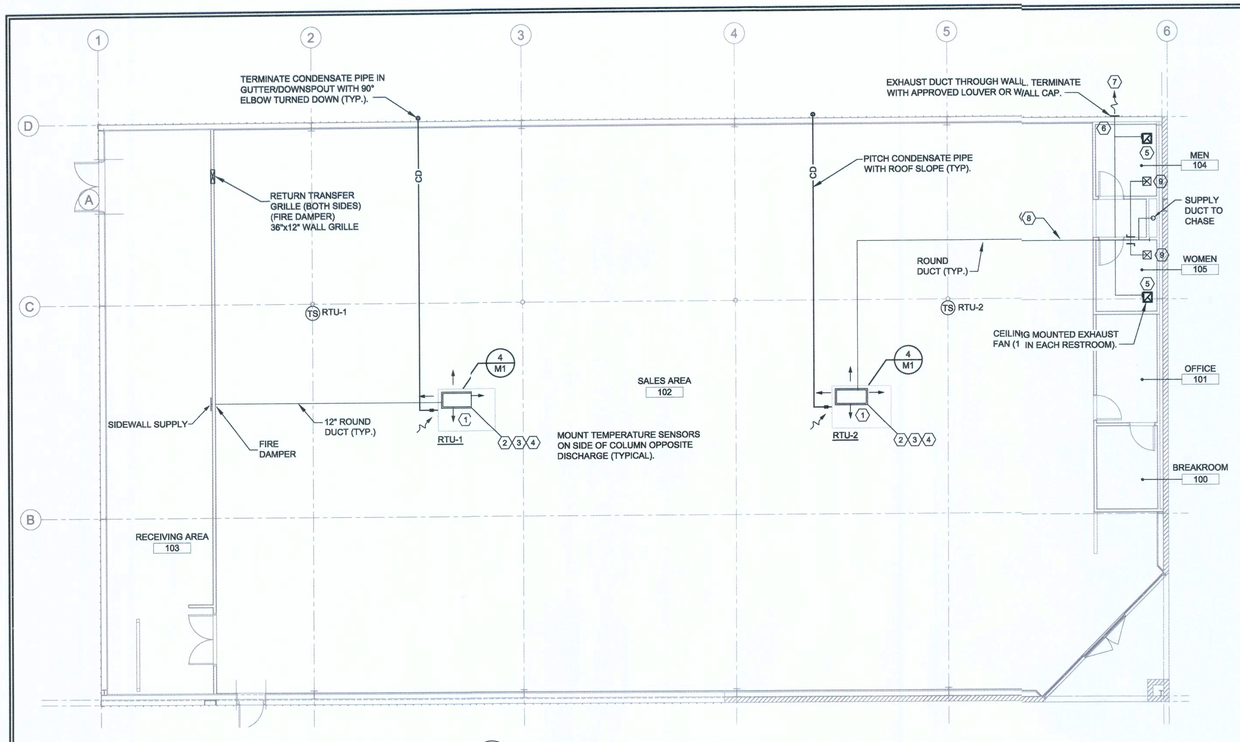
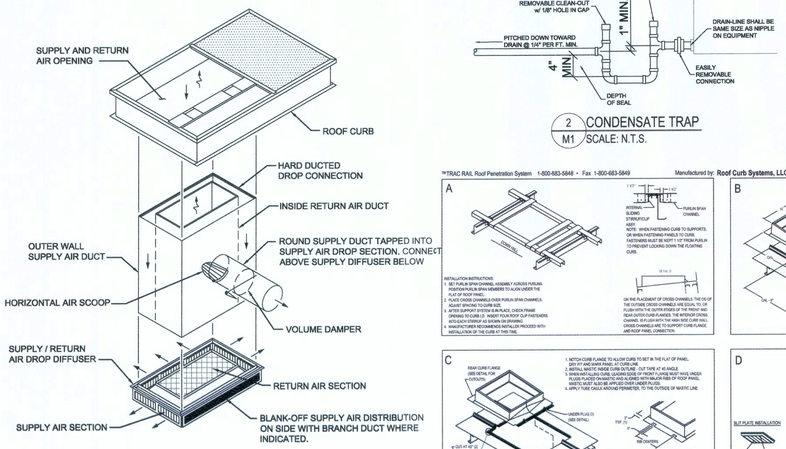
REVISION DATE: / REVISED BY:
PROJECT NUMBER: 4000.170
DRAWING TITLE: EMS PANEL CONTROLS
SHEET NO. EMS2



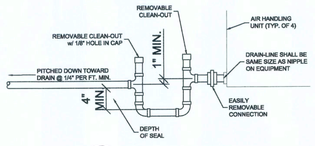

1 MECHANICAL PLAN
M1 SCALE: 1/8" = 1'-0"

NOTE:
ALL WORK TO COMPLY WITH THE 6TH EDITION OF THE 2017 FLORIDA BUILDING CODE MECHANICAL

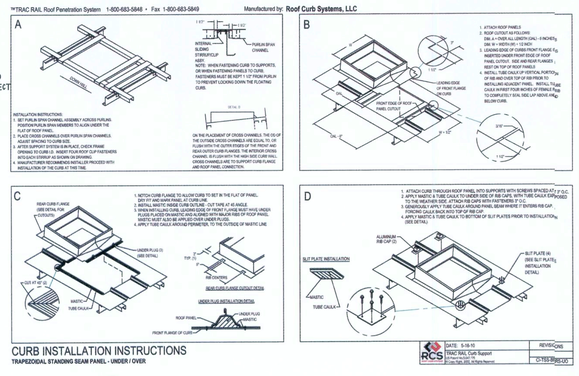



NOTE:
INSTALL HORIZONTAL AIR SCOOP HAVING A CONTINUOUSLY CURVED CROSS SECTION AND BALANCING DAMPER AT DUCT CONNECTION TO DIVERT SUPPLY AIR INTO THE CONNECTED DUCTWORK. LENGTH OF SCOOP SHALL BE LIMITED TO THE WIDTH OF THE SUPPLY AIR ANNULAR SPACE.

4 TYPICAL SUPPLY BRANCH CONNECTION
M1 SCALE: N.T.S.




2 CONDENSATE TRAP
M1 SCALE: N.T.S.




5 ROOF CURB SYSTEMS, LLC
M1 SCALE: N.T.S.

## AIR CONDITIONING SCHEDULE

| | |
|---|---|
| MARK | RTU - 1, 2 |
| AREA | RETAIL SPACE |
| BTUH SENSIBLE | 103,500 |
| BTUH TOTAL | 150,000 (12.5-TONS) |
| ENTERING DB / WB | 80 / 67 |
| OUTSIDE TEMP. | 95° F |
| SUPPLY CFM | 5,000 |
| EXTERNAL SP. | 0.6 |
| OSA CFM | REFER TO PLANS |
| FAN H.P. | 3.0 |
| HEAT Kw | 30 |
| VOLTAGE / PHASE | 208 / 3ϕ |
| MCA | 93 |
| FUSE SIZE | 100 |
| SEER (EER) | (12) |
| REFRIGERANT | R-410A |
| MODEL NO. | LCH122U4EJ1Y |
| MANUFACTURER | LENNOX |
| UNIT WEIGHT | 2,500 lbs. |

NOTES:
1. PROVIDE FILTER RACK w/2" 30-35% FILTERS
2. PROVIDE SOLID-STATE HEAD PRESSURE CONTROL ON CONDENSER FAN FOR LOW AMBIENT CONTROL
3. PROVIDE 5-MINUTE SOLID STATE DELAY CONTROL TO PREVENT COMPRESSOR FROM SHORT CYCLING
4. INSTALL UNIT PER MANUFACTURER'S SPECIFICATIONS AND GUIDELINES
5. PROVIDE UNIT WITH ELECTRIC HEAT AND SINGLE POINT CONNECTION
6. UNIT DISCONNECT AND CONVENIENCE OUTLET PROVIDED BY DIV-16
7. PROVIDE FACTORY MOUNTED OUTSIDE AIR HOOD WITH AUTOMATIC DAMPER
8. PROVIDE MICROMETL CONCENTRIC DIFFUSER KIT #CNKT-0550-18HD FOR YORK 4-6TON w/FACTORY INSTALLED TRANSITION ADAPTER AT RTU. (COORDINATE WITH LIGHT FIXTURES)

## SYMBOL LEGEND

- = EXHAUST FAN (NUTONE OR EQUIV.)
- = TRANSFER GRILL (HART & COOLEY TGF10x10 OR EQUIV.)
- TS = TEMPERATURE SENSOR MTD. @ 8'-0" A.F.F. (EMS1)
- = RETURN/EXHAUST AIR-FLOW
- = SUPPLY AIR-FLOW
- SD = SMOKE DETECTOR =(TYCO-SIMPLEX 4098-9686 OR EQUIV.)
- = LENNOX
- = SUPPLY AIR
- = RETURN AIR
- = VOLUME DAMPER

| | |
|---|---|
| 1 | HVAC1 24Vac (Red) |
| 2 | HVAC1 Supply Fan (Green) |
| 3 | HVAC1 Heat 1 (White) |
| 4 | HVAC1 Heat 2 (Brown) |
| 5 | HVAC1 Cool 1 (Yellow) |
| 6 | HVAC1 Cool 2 (Blue) |
| 7 | HVAC2 24Vac (Red) |
| 8 | HVAC2 Supply Fan (Green) |

3 EMS HVAC WIRING DETAIL
M1 SCALE: N.T.S.

## HVAC NOTES AND SPECIFICATIONS:

1. CONNECTION TO EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURER'S CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR EQUIPMENT FURNISHED.
2. COORDINATE DIFFUSERS, FANS AND REGISTER LOCATIONS WITH ELECTRICAL LIGHTING LAYOUT AND ARCHITECTURAL REFLECTED CEILING PLANS.
3. ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED, OFFSETS IN DUCTS, PIPING AND TRANSITIONS AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST.
4. SEAL AND MAKE WATER-TIGHT ALL OPENINGS THROUGH ROOF AND EXTERIOR WALLS.
5. ALL SEAMS AND CONNECTIONS IN DUCTWORK, DUCTBOARD AND INSULATION WRAP SHALL BE SEALED WITH ONE-LAYER OF FAB AND MASTIC.
6. FURNISH AND INSTALL ALL NECESSARY ACCESSORIES, HARDWARE AND APPURTENANCES AS REQUIRED FOR A COMPLETE FUNCTIONAL SYSTEM
7. ALL DUCT REGISTERS, GRILLS AND DIFFUSERS SHALL HAVE A MIN. FLAME SPREAD RATING OF NOT OVER 25 AND A MIN. SMOKE DEVELOPED RATING OF NOT OVER 50 AND SHALL BE IN COMPLIANCE WITH SECTIONS 603.15 AND 603.15.1.
8. ALL UNITS REQUIRE ECONOMIZERS WITH BAROMETRIC RELIEF OR MOTORIZED DAMPERS WITH DUCT MOUNTED BAROMETRIC RELIEF. PROVIDE AS REQUIRED.
9. ALL UNITS REQUIRE DUCT MOUNTED SMOKE DETECTORS. VERIFY CURRENT LOCAL REQUIREMENTS FOR MOUNTING LOCATION OF SMOKE DETECTORS.
10. ALL HVAC EQUIPMENT SHALL BE INSTALLED IN A SUCH A WAY AS TO REDUCE VIBRATION TRANSMISSION TO STRUCTURAL MEMBERS.
11. COORDINATE HVAC SENSOR LOCATIONS WITH SHEET EMS1.
12. POWER TO HVAC UNITS LISTED IN PREFERENCE ORDER.
13. PROVIDE EXHAUST FAN FOR RESTROOMS, INTERLOCK WITH RESTROOM LIGHTS, VENT THROUGH SIDE-WALL (NOT ROOF).
14. TESTING OF HVAC UNITS THROUGH EMS PANEL IS ACCOMPLISHED BY WARMING UP OR COOLING DOWN A SPACE TEMPERATURE SENSOR AND WATCH THE FAN, HEAT AND COOL STAGES CYCLE ON AND OFF. THIS REQUIRES TWO PEOPLE AT ALL TIMES...ONE TO WATCH THE SCREEN AND THE OTHER TO WATCH THE OPERATION OF THE AHU. WHEN COMPLETE, PRESS THE 'HOME' BUTTON TO RETURN TO THE MAIN SCREEN.
15. ALL MECHANICAL WORK SHALL CONFORM TO THE 2017 FBCM.
16. ALL AIR DISTRIBUTION COMPONENTS SHALL BE INSTALLED IN ACCORDANCE TO SECTION 501 OF THE FBCEC.

## MECHANICAL KEYED NOTES:

1. RTU-1 THRU RTU-2. PROVIDE AND INSTALL LENNOX PACKAGE ROOF-TOP UNIT. SEE SCHEDULE FOR UNIT INFORMATION.
2. SMOKE DETECTOR TO BE INSTALLED IN SUPPLY AIR DUCTWORK FOR ROOF-TOP UNIT. FIELD COORDINATE WITH FIRE ALARM SYSTEM USED AND LOCAL CODES.
3. INSTALL MICROTEL CONCENTRIC DIFFUSER KIT# CNKT-1018-511A FOR LENNOX 12.5 TON UNITS, WITH FACTORY INSTALLED TRANSITION ADAPTER AT RTU. COORDINATE WITH LIGHT FIXTURES.
4. SUPPLY REGISTER MOUNTED ON DUCTWORK. BALANCE AT 5,000 cfm EACH.
5. EXHAUST FAN TO BE MOUNTED ON CEILING w/DUCTWORK ROUTED TO SIDEWALL. PROVIDE STORM PROOF WALL CAP w/BACKDRAFT DAMPER (TYP.).
6. 8"Ø EXHAUST DUCT TO WALL CAP.
7. WALL CAP w/BACKDRAFT DAMPER.
8. 8"Ø DUCT (w/DAMPERS) SPLIT TO TWO 4"Ø DUCTS.
9. SUPPLY GRILL (w/DAMPER) (HART & COOLEY A504 12x12 OR EQUIV.)

## SMOKE DETECTOR NOTES:

1. THE DUCT SMOKE DETECTORS SHALL BE INSTALLED TO STOP THE FAN IN THE HVAC DUCT SYSTEM OVER 2,000cfm PER NFPA 90A:6.4.2(1)
2. THE ACTUATION OF A DUCT SMOKE DETECTOR SHALL ACTIVATE A VISIBLE & AUDIBLE SUPERVISORY SIGNAL AT A CONSTANTLY ATTENDED LOCATION
3. SMOKE DETECTOR TROUBLE CONDITION SHALL BE INDICATED VISUALLY OR AUDIBLY IN A NORMALLY OCCUPIED AREA AND SHALL BE IDENTIFIED AS AIR DUCT DETECTOR TROUBLE.
4. PROVIDE A REMOTE ALARM INDICATOR/ANNUCIATOR IN ACCORDANCE WITH NFPA 72:6.10.2
5. DETECTOR SHALL BE TYCO-SIMPLEX 4098-9686 OR EQUIV. (COMPLYING WITH UL 268A)
6. SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH FBC 2017 6th EDITION OF MECHANICAL CODE, SECTION 606.

## EQUIPMENT LABEL SPECIFICATIONS:

1. ALL HVAC EQUIPMENT SHALL BE FURNISHED WITH BLACK LAMINATED PLASTIC LABEL w/WHITE ENGRAVED LETTERING AND FASTENED MECHANICALLY TO THE EQUIPMENT.
2. LABEL SHALL HAVE THE FOLLOWING INFORMATION w/1/2" LETTERING:
   EQUIPMENT #
   SUITE/SPACE #

## DESIGN CRITERIA

BUILDING ENVELOPE MINIMUM U-FACTORS:

| | |
|---|---|
| STANDING SEAM ROOF W/ INSULATION | 0.065 |
| METAL BUILDING EXTERIOR WALLS W/ INSULATION | 0.113 |
| METAL FRAMED EXTERIOR WALL W/ 8" C.M.U. | 0.125 |
| STOREFRONT METAL FRAMED GLAZING SYSTEM | 0.80 |
| | 0.40 (S.H.G.C.) |
| HOLLOW CORE METAL DOORS | 0.70 |

| ZONE | PEOPLE | ELECT. LOAD | VENTILATION (OUTDOOR AIR) |
|---|---|---|---|
| SALES AREA | 90 | 5940 W | 0.12 CFM/SF |
| RECEIVING AREA | 2 | 260 W | 0.12 CFM/SF |
| OFFICE | 1 | 32W | 0.06 CFM/SF |
| BREAKROOM | 1 | 32W | 0.06 CFM/SF |
| MEN'S RESTROOM | - | 32W | 50 CFM CONTINUOUS (OR 70 CFM INTERMITTENT) EXHAUST. |
| WOMEN'S RESTROOM | - | 32W | 50 CFM CONTINUOUS (OR 70 CFM INTERMITTENT) EXHAUST. |

THESE VALUES ARE SUBJECT TO REVIEW AND REVISION, AND SHOULD BE MODIFIED AS REQUIRED FOR EACH PROJECT. IT IS THE RESPONSIBILITY OF THE DESIGN PROFESSIONAL TO CALCULATE THE HEAT GAINS/LOSSES FOR EACH PROJECT AND REVIEW EQUIPMENT SIZES.

SPECIFY SEISMIC RESTRAINT SYSTEMS FOR ALL PIPING, DUCTWORK AND EQUIPMENT AS REQUIRED, IN ACCORDANCE WITH APPLICABLE CODES.

## VENTILATION REQUIREMENTS

| ROOM NUMBER | ROOM NAME | NET AREA (SF) | PEOPLE PER 1,000 sq. ft. | NO. OF PEOPLE | CFM PER PERSON | CALCULATED OSA CFM | OSA PROVIDED CFM |
|---|---|---|---|---|---|---|---|
| 100 | | 83 | - | 1 | 20 | 20 | 20 |
| 101 | | 79 | - | 1 | 20 | 20 | 20 |
| 102 | | 5,922 | 15 | 198 | 7.5 | 855 | 1,030 |
| 103 | | 954 | - | 4 | 0.12 cfm/sq.ft. | 117.9 | 118 |
| 104 | | 50 | - | 1 | 20 | 20 | 20 |
| 105 | | 50 | - | 1 | 20 | 20 | 20 |
| | | | | | TOTAL AMOUNT OF OSA PROVIDED: | | 1,288 |

TABLE NOTES: BASED ON 2017 FBC MECHANICAL -6th EDITION CODE TABLE 403.3

## EXHAUST FAN SCHEDULE

| UNIT NO. | SERVICE | LOCATION | CFM | E.S.P. (IN W.G.) | ELECTRICAL DATA WATTS | VOLTS | PHASE | R.P.M. HI/LO | SONES | DRIVE | MANUFACTURER MODEL NUMBER | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EF-1 | TOILET | CEILING | 110 | .125 | 156 | 120 | 1 | - | 4.0 | DIRECT | NUTONE #672R | 1, 2, 3, 4, 5 |
| EF-2 | TOILET | CEILING | 110 | .125 | 156 | 120 | 1 | - | 4.0 | DIRECT | NUTONE #672R | 1, 2, 3, 4, 5 |
| - | - | - | - | - | - | - | - | - | - | - | - | - |

REMARKS:
1. PROVIDE UNIT MOUNTED DISCONNECT
2. PROVIDE BACKDRAFT DAMPERS & WALL CAP
3. PROVIDE SPEED CONTROLLER
4. INTERLOCK FAN WITH LIGHT SWITCH
5. FANS TO BE U.L. LISTED & AMCA CERTIFIED.

## PROVIDE WITH EACH HVAC UNIT:

FACTORY INSTALLED:
1. THRU-THE-BASE CONNECTIONS.
2. LOW/HIGH HEAT (AS REQ'D.) - ONLY WITH GAS FIRED UNITS.
3. BELT DRIVE w/STANDARD STATIC OPTION.
4. COATED COILS (WHEN LOCATED WITHIN 10mi. FROM SHORELINE).

FIELD-INSTALLED:
5. DISCONNECT.
6. CONVENIENCE OUTLET.
7. DUCT SMOKE DETECTOR (TYCO-SIMPLEX MODEL# 4096-9686 OR EQUIV.)
8. ELECTRIC HEAT w/SINGLE-POINT CONNECTION KIT. - ONLY WITH ELECTRIC UNITS.
9. ECONOMIZER w/BAROMETRIC RELIEF (WHERE REQ'D.) / MOTORIZED O.A (OUTSIDE AIR) DAMPER w/DUCT MOUNTED BAROMETRIC PRESSURE RELIEF DAMPER AND HOOD KIT (WHEN ECONOMIZER IS NOT REQUIRED).
10. DUAL AIR ENTHALPY SENSOR (FOR UNITS w/ECONOMIZER).
11. TWO (2) ADDITIONAL SETS OF FILTERS (POST CONSTRUCTION/PRE-TEST AND TWO SETS TO OWNER FOR FUTURE USE).

## AIR BALANCE ANALYSIS

| MARK | SUPPLY AIR | OSA INTAKE | RETURN AIR | EXHAUST AIR | BLDG. PRESSURE |
|---|---|---|---|---|---|
| RTU-1 | 5,000 | 750 | 4,250 | - | 750 |
| RTU-2 | 5,000 | 750 | 4,250 | - | 750 |
| EF-1 | - | - | - | 110 | -110 |
| EF-2 | - | - | - | 110 | -110 |
| - | - | - | - | - | - |
| **TOTALS:** | **10,000** | **1,500** | **8,500** | **220** | **+1,280** |

SEAL DATE: 7/29/19

NAWWAF A. AHMAD LICENSE No. 56095 STATE OF FLORIDA PROFESSIONAL ENGINEER

NAWWAF AHMAD, P.E.


DESIGN ENGINEERING, INC.
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(407) 756-5230 / (321) 251-5071-Fax / Certificate #28618
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CONCEPT COMPANIES

DOLLAR GENERAL®
2144 SW BIRLEY AVE.
LAKE CITY, FL 32024
STORE # 19930
2019 PROTOTYPE - PLAN 9100E - 9,100 SQ. FT.

DRAWING DATE / DRAWN BY: 4/5/19 - NSA
REVISION DATE / REVISED BY:
PROJECT NUMBER: 4000.170
DRAWING TITLE: MECHANICAL PLAN
SHEET NO.: M1

## Foreword

This publication details the installation requirenents for dynamic application fire dampers as manufactured by Miami Tech Inc. Use of this manual or systems or products not manufactured or supplied by Miami Tech Inc shall not be applicable.

All products covered by this manual have been testedin accordance with UL555 and are authorized to bear the UL classification mark for fire dampers. Specific Fire Damper model numbers and their corresponding UL file numbers may be found in UL's fire Resistance Directory. Miami Tech Inc. Fire Dampers have meet current UL requirements for Dynamic Cutain Style Fire Dampers July 2002.

For specific fire damper location requirements, duct construction and connection or installation practices, refer to the following codes or standards:

**NFPA Publications:**

NFPA 90A - Standard for the Installation of Air-Conditioning and Ventilation Systems

**UL Publications:**

UL555 - Standard for Safety, Fire Dampers, Dynanic Dampers 7/2002.

**SMACNA Publications:**

Fire, Smoke and Radiation Damper Installation Guide for HVAC Systems Guide

HVAC Duct Construction Standards – Metal andFlexible

The Installation Instructions found within this manual have been specifically drawn and detailed to meet the requirements of UL555. Some jurisdictions may reuire additional or different installation methods; therefore, consult with the authority having jurisdicton for specific differences. For these cases, the requirements defined by the authority having jursdiction will take precedence over the documents contained herein.

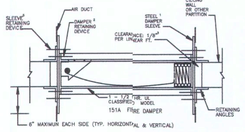




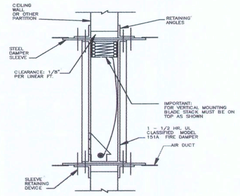
1/2003

## Model 151A • 1.5 Hour Single Section Dynamic Fire Damper

**HORIZONTAL MOUNTING** (Model 151A)




**VERTICAL MOUNTING** (Model 151A)




Fusible Link – 165°F

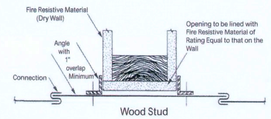
**NOTES:**

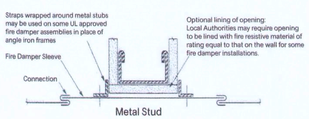
1. Sleeve shall be of the same or heavier gauge as the duct to which it is attached. Gauges shall conform to SMACNA or ASHRAE Duct Standards. When the following duct-sleeve connections are used, minimum gauge of the sleeve shall be 16 gauge on dampers not exceeding 24" wide x 24" high and 14 gauge on larger dampers: (a) angle reinforced standing seam, (b) angle reinforced pocket lock, (c) companion angle, or (d) metal fasteners spaced approximately 16" on center. Refer to the latest edition of UL 555 for connections which may be used in all systems.
2. Damper is secured to sleeve by the use of either 1/4" diameter steel nuts and bolts, No. 10 sheetmetal screws, 1/4" diameter steel rivets, or 1/2" long welds...all of which must be 6" on center and a maximum of 1 3/4" from the ends.
3. Fire dampers shall have clearance of 1/8" per linear foot on width and height. The unit (damper and sleeve) may rest on the bottom of the opening and need not be centered.
4. Retaining angles shall be a minimum of 1 1/2" x 1 1/2" x 16 gauge steel. Angles increase in size proportionally, so that there will be a minimum of 1" overlap on the partition, and angles must also cover corners of opening.
5. The sleeve is retained in the partition opening by the use of either 1/4" diameter steel nuts and bolts, No. 10 sheetmetal screws, 1/4" diameter steel pop rivets or 1/2" long welds...all of which must be 6" on center and no more than 2" from the ends. Devices are to attach angle to sleeve only.
6. This installation is for dampers which are to be installed in masonry walls only. See Installation for Alternate Framing Methods on page 5, for wood stud and metal stud partition.
7. Connecting ducts shall be terminated at the sleeve or transition collar where a draw-band type breakaway joint is used.
8. Maximum duct size of single section Model 151A unit is 24" wide x 24" high.





## Model 150 & 151 • Alternate Framing Methods




**NOTES:**

1. **Thickness and type of fire resistive material may vary with the jurisdiction. Specific framing requirements of openings should be provided in the architectural and structural drawings that are submitted for building permits.**
2. Sleeve shall be 14 gauge when the following duct-sleeve connection is: (a) angle reinforced standing seam, (b) angle reinforced pocket, (c) companion angles, (d) metal fasteners spaced approximately 16" on center. Refer to latest edition of UL 555 for connections with may be used in all systems. Gauges shall conform to SMACNA or ASHRAE Duct Standards.
3. Damper is secured to sleeve by the use of either 1/4" diameter steel nuts and bolts, No. 10 sheetmetal screws, 1/4" diameter steel rivets, or 1/2" long welds...all of which must be 6" on center and a maximum of 1 3/4" from the ends.
4. Fire dampers shall have clearance of 1/8" per linear foot on width and height. The unit (damper and sleeve) may rest on the bottom of the opening and need not be centered.
5. Retaining angles shall be a minimum of 1 1/2" x 1 1/2" x 16 gauge steel. Angles increase in size proportionally, so that there will be a minimum of 1" overlap on the partition, and angles must also cover corners of opening.
6. The sleeve is retained in the partition opening by the use of either 1/4" diameter steel nuts and bolts, No. 10 sheetmetal screws, 1/4" diameter steel pop rivets or 1/2" long welds...all of which must be 6" on center and no more than 2" from the ends. Devices are to attach angle to sleeve only.
7. For Horizontal Mount Dampers, the assembly is formed by using a full length 1/8" by 5" wide mullion plate with 1/4" diameter steel nuts and bolts, spaced 6" on center and a maximum of 3/4" from corners attaching frames to mullion plate.
8. For Vertical Mount Dampers, the damper frames are butted together and fastened with either No. 10 x 3/4" long sheetmetal screws, 1/4" diameter steel rivets, 1/4" diameter steel nuts and bolts, or 1/2" long welds all of which must be spaced at 4" on center and maximum of 3/4" from corners of dampers.
9. Connecting ducts shall be terminated at the sleeve.
10. Maximum duct size of single section vertical only unit is 24" wide x 24" high.



## METAL OR WOOD STUD FRAMIIG FOR FIRE DAMPERS IN WALLBOARD PARTITIONS

**NOTE:** Gypsum Wallboard screwed to all stud and runner flanges. 12" O.C. maximum, surrounding opening

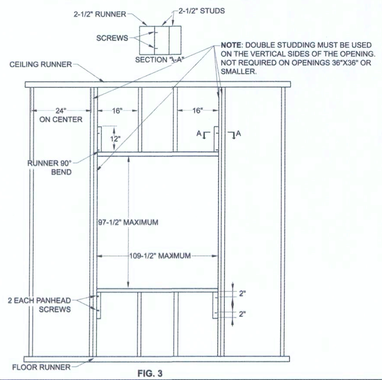



FIG. 3

| MODEL | MAXIMUM SIZE TABLE | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Single Section | | | | Multiple Section | | | |
| | Vertical | | Horizontal | | Vertical | | Horizontal | |
| | Max. Width | Max. Height | Max. Width | Max. Height | Max. Width | Max. Height | Max. Width | Max. Height |
| MFD | 60 | 60 | 40 | 40 | 120 | 120 | 80 | 40 |
| MFD3 | 48 | 48 | 40 | 40 | - | - | 80 | 40 |
| MDFD | 36 | 36 | 18 | 18 | - | - | 36 | 36 |
| MDFD3 | 36 | 36 | 18 | 18 | - | - | 36 | 36 |
| MFDS | 48 | 48 | 48 | 48 | - | - | - | - |
| MFDS3 | 48 | 48 | 48 | 48 | - | - | - | - |
| MDFDS | 36 | 36 | 18 | 18 | - | - | 36 | 36 |
| MDFDS3 | 36 | 36 | 18 | 18 | - | - | 36 | 36 |
| MFDUS | 48 | 48 | - | - | - | - | - | - |
| MFDUS3 | 48 | 48 | - | - | - | - | - | - |

**NOTE:** For maximum single section sizes refer to maximum size table For openings larger than given for single section, multiple dampers are required. For openings larger than given in multiple sections a 12" wide brick or reinforced mullion must be provided between adjacent assemblies.

Litho in U.S.A.



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8881

SEAL DATE: 7/29/19

NAWWAF A. AHMAD LICENSE No. 56095 STATE OF FLORIDA PROFESSIONAL ENGINEER

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DOLLAR GENERAL®

2144 SW BIRLEY AVE.
LAKE CITY, FL 32024
STORE # 19930
2018 PROTOTYPE - PLAN 9100E - 9,100 SQ. FT.

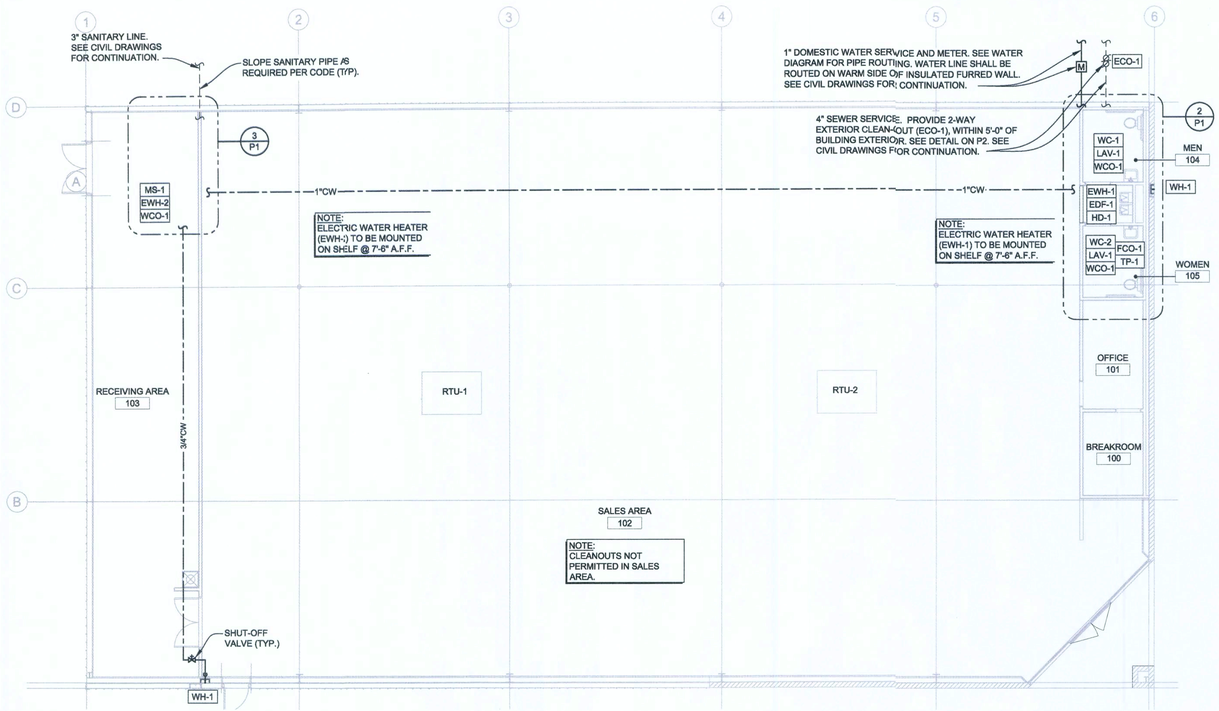
DRAWING DATE: / DRAWN BY:
4/5/19 - NSA

REVISION DATE: / REVISED BY:

PROJECT NUMBER:
4000.170

DRAWING TITLE:
FIRE DAMPER DETAILS

SHEET NO.
M2




1 / P1 PLUMBING PLAN
SCALE: 1/8" = 1'-0"

NORTH

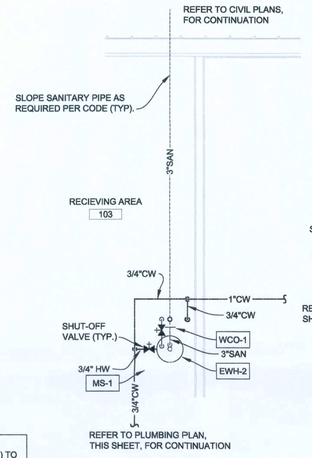
NOTE:
ALL WORK TO COMPLY WITH THE 6TH EDITION OF THE 2017 FLORIDA BUILDING CODE PLUMBING

SANITARY INVERT NOTE:
REQUIRED INVERT AT POINT OF CONNECTION (5 FT FROM EXTERIOR WALL) TO EXISTING SEWER SERVICE IS APPROXIMATELY5'-0" BELOW FINISHED FLOOR BASED ON TOTAL LENGTH OF 135' SLOPED AT 1/8" PER FT AND STARTING INVERT OF 18" BELOW FINISHED FLOOR. CONTRACTOR TO FIELD VERIFY THE INVERT AND LOCATION OF SANITARY LINE AS SHOWN ON CIVIL DRAWINGS.

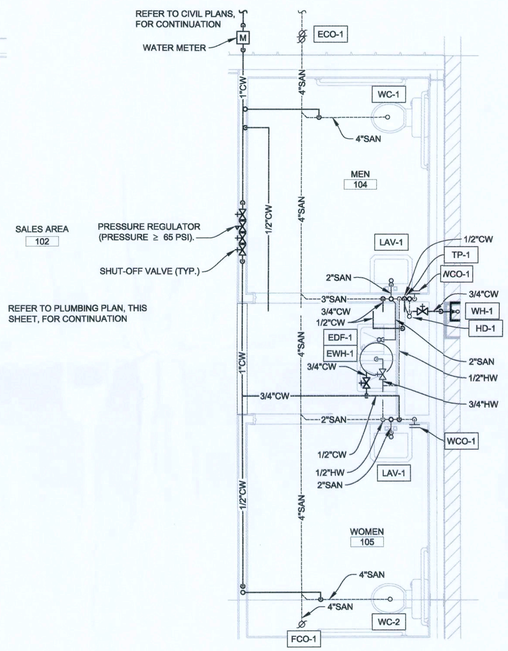
NOTES:
1. REFER TO SHEET P2, FOR ROUTING OF DOMESTIC WATER, SANITARY SEWER AND SANITARY VENT PIPING.
2. PROVIDE TAMPER PROOF CABINET WITH ACCESS PANEL FOR BACKFLOW ASSEMBLY.
3. DOMESTIC WATER, SANITARY SEWER AND SANITARY VENT PIPE ROUTING ARE DIAGRAMMATIC ONLY, COORDINATE PIPE ROUTING WITH FIELD CONDITIONS. REFER TO PIPING DIAGRAMS ON SHEET P2.

## GENERAL PLUMBING NOTES

1. PROVIDE ALL BACKING, SUPPORTS AND CARRIERS FOR FIXTURES.
2. CONTRACTOR SHALL PROVIDE APPROVED ACCESS DOORS IN FRAMED HOLES FOR ALL VALVES AND TRAP PRIMERS WHICH MUST BE LOCATED IN INACCESSIBLE LOCATIONS.
3. ALL WATER PIPING SHALL BE PITCHED IN DIRECTION OF FLOW TO ALLOW FOR SYSTEM DRAINING.
4. INSTALL WATER MAIN SHUT-OFF VALVE UPSTREAM FROM PRESSURE REGULATOR.
5. INSTALL WATER PRESSURE REGULATOR WHERE AVAILABLE UTILITY PRESSURE EXCEEDS 70 PSI. SET PRESSURE REGULATOR AT 65 PSI.
6. PROVIDE BACKFLOW PREVENTER ASSEMBLY WITH TAMPER RESISTANT ACCESS CABINET PER LOCAL CODE.
7. ROUTE WATER PIPING IN SALES AREA, OVERHEAD AS HIGH AS POSSIBLE.
8. DRAIN, WASTE AND VENT LINES SHALL PASS INSPECTION UNDER HEAD OF WATER BY SYSTEM WITH WATER TO TOP OF HIGHEST VENT STACK.
9. WATER LINES SHALL PASS INSPECTION OF FOUR (4) HOURS UNDER 150 PSI PRESSURE. BEFORE ANY USE OF SYSTEM IS MADE FOR DOMESTIC PURPOSES, IT SHALL BE DISINFECTED BY SLOWLY FILLING WITH WATER TO WHICH A DISINFECTING AGENT HAS BEEN INJECTED AT A RATE OF 50 P.P.M. OF CHLORINE, WHICH SHOULD BE ALLOWED TO STAND IN THE PIPING FOR AT LEAST 24 HOURS, AFTER WHICH TESTS FOR RESIDUAL CHLORINE SHALL SHOW NOT LESS THAN FIVE (5) P.P.M. OF RESIDUAL CHLORINE AT EVERY WATER OUTLET IN THE BUILDING. IF THE RESIDUAL IS LESS THAN FIVE PPM, THE DISINFECTION SHALL BE REPEATED UNTIL THE REQUIRED RESIDUAL IS OBTAINED AT EVERY OUTLET. AFTER REQUIRED RESIDUAL IS OBTAINED AT EVERY OUTLET, THE SYSTEM SHALL BE FLUSHED UNTIL THE CHLORINE LEVEL AT EVERY OUTLET IS REDUCED TO THAT OF INCOMING WATER SUPPLY.
10. SEPTIC SYSTEM NOT ALLOWED WITHOUT WRITTEN APPROVAL BY DOLLAR GENERAL.
11. HOLDING TANK SYSTEMS NOT ALLOWED.
12. LIFT STATIONS ARE NOT ALLOWED WITHOUT WRITTEN APPROVAL BY DOLLAR GENERAL.
13. CONTRACTOR RESPONSIBLE FOR ALL PUBLIC UTILITY CONNECTIONS.
14. ALL PLUMBING MATERIALS SHALL COMPLY WITH CODE.
15. REFER TO SHEET P2 FOR MATERIALS.




3 / P1 STOCK ROOM PLAN
SCALE: N.T.S.




2 / P1 TOILET
SCALE: N.T.S.

## SYMBOL LEGEND

| | |
|---|---|
| SAN | SANITARY PIPING |
| SAN BLW. | SANITARY PIPING BELOW |
| V | VENT PIPING |
| GAS | GAS PIPING |
| CW | COLD WATER PIPING |
| HW | HOT WATER PIPING |
| | SHUT-OFF VALVE |
| | BACKFLOW PREVENTER |
| | PRESSURE REGULATOR |
| | WALL CLEANOUT |
| | FREEZE-PROOF HOSE BIBB |
| | 2-WAY EXTERIOR CLEANOUT |
| | FLOOR CLEANOUT |

## PLUMBING FIXURE SCHEDULE

| | | | | | VENT CONNECTION | REMARKS |
|---|---|---|---|---|---|---|
| | | | | | 1-1/2" | 20"X18" WALL HUNG ADA LAVATORY W/ FRONT OVERFLOW, CONCEALED HANGERS & 4" CENTERS. AMERICAN STANDARD LUCERNE #0355.012 OR EQUAL. FAUCET SHALL BE POLISHED CHROME-PLATED CAST BRASS BODY WITH 4" SPOUT, 4" BRASS WRIST BLADE, 0.5 GPM SPRAY & POP-UP DRAIN. AMERICAN STANDARD MONTERREY #5502.175 WITH #V05 AERATOR OR EQUAL. INSULATE EXPOSED DRAIN & WATER PIPES WITH TRUEBRO LAV GUARD KIT #102 E-Z. PROVIDE SUPPLY LINES, STOP VALVES & P-TRAP. |
| | | | | | 2" | FLOOR MOUNTED ADA VITREOUS CHINA ELONGATED 1.6 FLUSH GALLON CLOSE COUPLED TWO PIECE SIPHON JET WATER CLOSET & FLUSH TANK WITH 12" ROUGH-IN, AMERICAN STANDARD CHAMPION 4 "RIGHT HEIGHT" #2002.014 OR EQUAL. PROVIDE STOP VALVE, FLEXIBLE SUPPLY LINE & OPEN FRONT SEAT (AMERICAN STANDARD #5901.100 OR EQUAL). |
| | | | | | 2" | FLOOR MOUNTED ADA VITREOUS CHINA ELONGATED 1.6 FLUSH GALLON CLOSE COUPLED TWO PIECE SIPHON JET WATER CLOSET & FLUSH TANK WITH 12" ROUGH-IN, AMERICAN STANDARD CHAMPION 4 "RIGHT HEIGHT" #2002.014 OR EQUAL WITH ALTERNATE TANK ASSEMBLY #4266.804 (RIGHT HAND TRIP LEVER). PROVIDE STOP VALVE, FLEXIBLE SUPPLY LINE & OPEN FRONT SEAT (AMERICAN STANDARD #5901.100 OR EQUAL). |
| EWH-1 | ELECTRIC WATER HEATER | 3/4" | 3/4" | - | - | PROVIDE 10 GALLON ELECTRIC WATER HEATER, 1.65KW @ 120V WITH MANUFACTURER SUPPLIED TEMPERATE AND PRESSURE RELIEF VALVE. (A.O. SMITH #EJC-10, OR EQUAL).<br>SET WATER HEATER TEMPERATURE AT 110°F MAXIMUM.<br>PROVIDE THERMAL EXPANSION TANK. (AMTROL THERM-X-TROL ST-12, OR EQUAL).<br>EXPANSION TANK SUPPORT:<br>IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SUPPORT FOR THE EXPANSION TANK. SUPPORT TO ADJACENT WALL OR FROM EXISTING STRUCTURE ABOVE WITH UNISTRUT. DO NOT SUPPORT FROM PIPE ALONE.<br>PROVIDE DRAIN PAN UNDER WATER HEATER.<br>PROVIDE SEISMIC STRAPPING ON WATER HEATER.<br>TERMINATE (EWH-1) DRAIN LINE IN MOP SINK (MS-1). PROVIDE FULL SIZE T&P RELIEF LINE. REFER TO WATER HEATER DETAIL ON SHEET P2 FOR ADDITIONAL INFORMATION. |
| MS-1 | MOP SINK | 3/4" | 3/4" | 3" | 2" | 24" X 24" MOLDED STONE MOP SERVICE BASIN, WITH 3' DRAIN. FIAT #MSB-2424 OR EQUAL. PROVIDE SERVICE FAUCET WITH PAIL HOOK & INTEGRAL VACUUM BREAKER, MOP BRACKET, FLAT STAINLESS STEEL STRAINER AND HOSE & BRACKET. FIAT #830 AA, 889 CC, 1453 BB & 832 AA OR EQUAL. PROVIDE SUPPLY LINES AND P-TRAP. |
| EDF-1 | BARRIER FREE ELECTRIC DRINKING FOUNTAIN | - | 1/2" | 2" | 1-1/2" | TWO-STATION, WALL MOUNTED, ELECTRIC DRINKING FOUNTAIN, BARRIER-FREE ACCESS (ADA), FRONT ONLY EASY TOUCH CONTROL, HIGH UNIT ON RIGHT. ELKAY #EZTLRDDC OR EQUAL. PROVIDE SUPPLY LINE, STOP VALVE & P-TRAP. PROVIDE CANE APRON AS REQUIRED. |
| WH-1 | WALL HYDRANT | - | 3/4" | - | - | FREEZE-PROOF WALL HYDRANT WITH BRONZE BODY & ANTI-SIPHON VACUUM BREAKER, BOX AND LOCKING COVER. PROVIDE WITH HOSE CONNECTION AND MOUNT AT 24" ABOVE GRADE. WOODFORD #B65 OR EQUAL. |
| WCO-1 | WALL CLEAN-OUT | - | - | AS SHOWN ON PLANS | - | SIZE & INSTALL AS SHOWN ON PLANS. JOSAM, ZURN OR EQUAL. |
| ECO-1 | EXTERIOR CLEAN-OUT | - | - | 4" | - | PROVIDE TRAFFIC RATED, 2-WAY, EXTERIOR CLEANOUT. TYLER PIPE #003519, OR EQUAL. |
| FCO-1 | FLOOR CLEAN-OUT | - | - | AS SHOWN ON PLANS | - | PROVIDE ADJUSTABLE FLOOR CLEANOUT WITH WATERTIGHT TAPERED THREADED PLUG AND ROUND SCORIATED SECURED TOP, ADJUSTABLE TO FINISHED FLOOR. SIZE & INSTALL AS SHOWN ON PLANS. JOSAM, ZURN OR EQUAL. |

## CIVIL ENGINEERING DESIGN COORDINATION NOTICE

NOTICE TO ALL PARTIES HAVING AN INTEREST IN THIS CONSTRUCTION PROJECT:
1. CIVIL ENGINEERING FOR THIS PROJECT IS BEING PERFORMED BY OTHERS.
2. CONTRACTORS RELYING ON DOCUMENTS NOT COORDINATED WITH THE CIVIL ENGINEERING WORK SHALL DO SO AT THEIR OWN RISK.
3. COORDINATION WITH THE CIVIL ENGINEERING DOCUMENTS HAS BEEN COMPLETED ONLY AS SHOWN BELOW.

CIVIL ENGINEERING CONSULTANT IS: COMPANY NAME
ADDRESS
CITY, STATE
CONTACT: XXX
PHONE: (XXX) XXX-XXXX

| CIVIL SHEET DWG. NO. | CIVIL SHEET DWG. TITLE | REV. NO. | REV. DATE | REV. NO. | REV. DATE | REV. NO. | REV. DATE |
|---|---|---|---|---|---|---|---|
| - | - | - | - | | | | |
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COORDINATION CHECKED BY:

| INITIAL | DATE | INITIAL | DATE | INITIAL | DATE |
|---|---|---|---|---|---|
| - | - | | | | |

$EAL DATE: 7/29/19

NAWWAF A. AHMAD LICENSE No. 56095 STATE OF FLORIDA PROFESSIONAL ENGINEER

NAWWAF AHMAD, P.E.


M DESIGN ENGINEERING, INC.
LB 8387/ANABLE DESIGN & ENERGY MANAGEMENT SOLUTIONS
(407) 796-8282 / (321) 251-6377 Fax / Certificate #28618
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2144 SW BIRLEY AVE.
LAKE CITY, FL 32024
STORE # 19800
2018 PROTOTYPE - PLAN # 19062 - 9,100 SQ. FT.

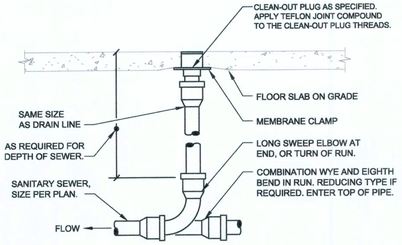
DRAWING DATE: / DRAWN BY:
4/5/19 - NSA

REVISION DATE: / REVISED BY:

PROJECT NUMBER:
4000.170

DRAWING TITLE:
PLUMBING PLAN

SHEET NO.
P1

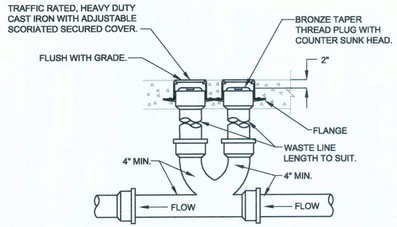



NOTES:
1. REFER TO SCHEDULE FOR ADDITIONAL INFORMATION. LOCATE FLOOR CLEAN-OUT AT END OF RUN, TURNS OF PIPE GREATER THAN 45°, 50' INTERVALS ON STRAIGHT RUNS, AND/OR WHERE SHOWN ON PLANS & RISERS. PROVIDE BACKFILL AS REQUIRED. LOCATE CLEAN-OUT WHERE THERE IS 18" CLEAR AROUND, FOR ACCESSIBILITY. COORDINATE WITH LOCAL CODES AND AUTHORITY HAVING JURISDICTION FOR ANY ADDITIONAL REQUIREMENTS.
2. PROVIDE FLOOR CLEAN-OUT WITH ADJUSTABLE COVER. CLEAN-OUT COVER SHALL BE SUITABLE FOR RESPECTIVE FLOOR COVERING (RECESSED FOR TILE, SCORIATED FOR UNFINISHED FLOORS, ETC.), CLEAN THE TOP OF EXPOSED FLOOR CLEAN-OUT AFTER INSTALLATION.

1 / P2 NOT USED
SCALE: N.T.S.

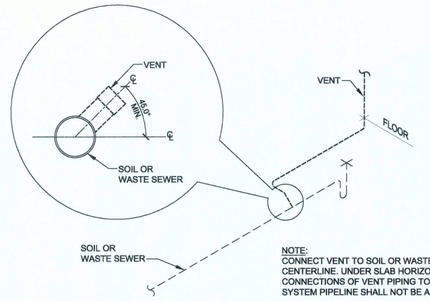
2 / P2 NOT USED
SCALE: N.T.S.

3 / P2 FLOOR CLEANOUT
SCALE: N.T.S.



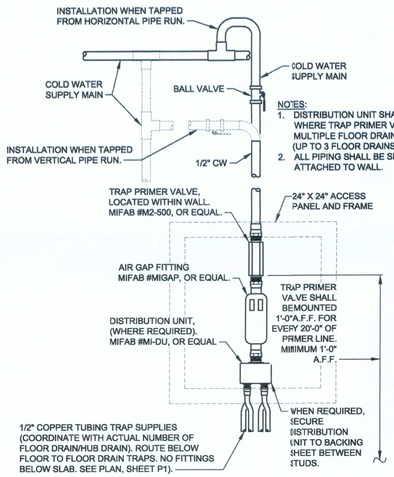

NOTES:
1. CLEAN-OUT SHALL BE TRAFFIC RATED.
2. ECO-1 SHALL BE INSTALLED WITHIN 5'-0" OF THE BUILDING EXTERIOR.

4 / P2 2-WAY YARD CLEANOUT
SCALE: N.T.S.




NOTE:
CONNECT VENT TO SOIL OR WASTE PIPING ABOVE CENTERLINE. UNDER SLAB HORIZONTAL CONNECTIONS OF VENT PIPING TO WASTE SEWER SYSTEM PIPELINE SHALL NOT BE ALLOWED.

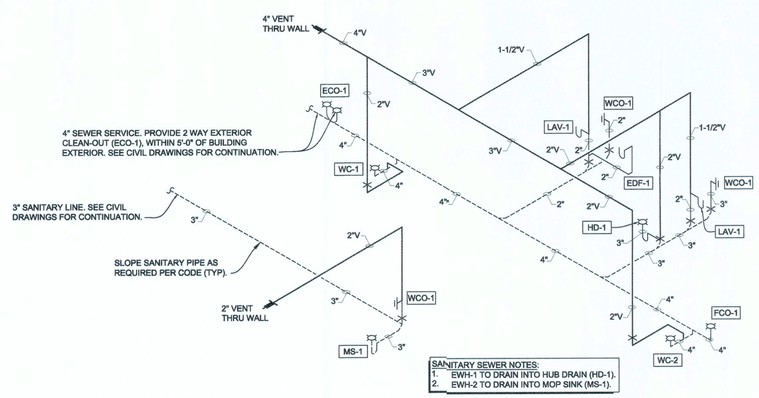
5 / P2 VENT PIPE INSTALLATION
SCALE: N.T.S.




NOTES:
1. DISTRIBUTION UNIT SHALL BE USED WHERE TRAP PRIMER VALVE SERVES MULTIPLE FLOOR DRAINS (UP TO 3 FLOOR DRAINS MAXIMUM).
2. ALL PIPING SHALL BE SECURELY ATTACHED TO WALL.

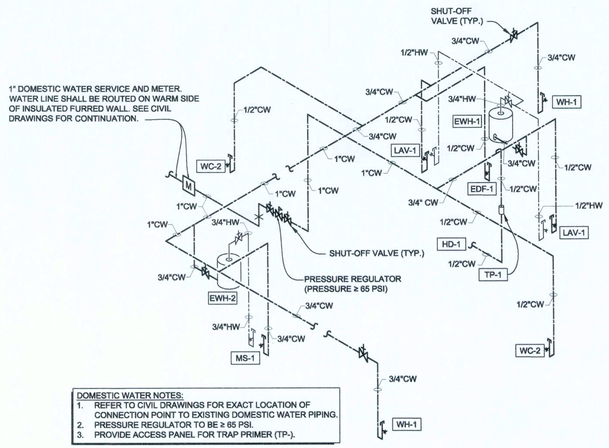
6 / P2 TRAP PRIMER
SCALE: N.T.S.

| MATERIALS |
|---|
| 1. DRAIN, WASTE AND VENT |
| A. SCHEDULE 40 AND 80 PVC OR ABS PIPING WITH DWV PATTERN FITTINGS TO BE USED UNLESS OTHERWISE REQUIRED BY LOCAL CODE. |
| 2. HOT AND COLD WATER |
| A. ABOVE GRADE. |
| a) TYPE "L" COPPER TUBING, HARD TEMPER, COLD DRAWN WITH WROUGHT COPPER LEAD FREE SWEAT FITTINGS. CONNECTIONS TO FIXTURES AND EQUIPMENT SHALL BE MADE WITH 85% RID BRASS IPS SIZE PIPE OR COMPRESSION ANGLE STOPS. PROVIDE DIELECTRIC UNIONS WHERE CONNECTING PIPING OF DISSIMILAR MATERIALS |
| B. BELOW GRADE. |
| b) TYPE "K" COPPER TUBING, HARD OR SOFT TEMPER, WITH WROUGHT COPPER LEAD FREE SWEAT FITTINGS. NOTE: NO FITTINGS SHALL BE PERMITTED BELOW GRADE INSIDE BUILIING. |
| 3. AIR CONDITIONING CONDENSATE |
| A. SEE MATERIALS, SECTION 1, UNLESS OTHERWISE REQUIRED BY CODE. |
| 4. NATURAL GAS PIPING |
| A. SCHEDULE 40, ASTM A120, BLACK IRON PIPE WITH 150 LB. BLACK MALLEABLE THREADED OR SOCKET WELDED FITTINGS. |
| NOTE: CPVC CAN USED IN PLACE OF COPPER TUBING |




SANITARY SEWER NOTES:
1. EWH-1 TO DRAIN INTO HUB DRAIN (HD-1).
2. EWH-2 TO DRAIN INTO MOP SINK (MS-1).

7 / P2 SANITARY & VENT ISO
SCALE: N.T.S.




DOMESTIC WATER NOTES:
1. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION OF CONNECTION POINT TO EXISTING DOMESTIC WATER PIPING.
2. PRESSURE REGULATOR TO BE ≥ 85 PSI.
3. PROVIDE ACCESS PANEL FOR TRAP PRIMER (TP-).

8 / P2 DOMESTIC WATER ISO
SCALE: N.T.S.

SEAL DATE: 7/29/19

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STATE OF FLORIDA
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PLUMBING DETAILS

SHEET NO.
P2