

APPLICABLE CODES AND ANALYSIS:

- INTERNATIONAL BUILDING CODE (IBC) 2012 ED, WITH 2017/2018 GA AMENDMENTS
- RULES & REGULATIONS OF THE SAFETY FIRE COMMISSIONER FOR THE STATE MINIMUM FIRE SAFETY STANDARDS, 8/31/2003.
- NFPA 101 LIFE SAFETY CODE, 2012 ED, WITH GA AMENDMENTS
- INTERNATIONAL FUEL GAS CODE 2012, WITH 2014/2015 GA AMENDMENTS
- INTERNATIONAL MECHANICAL CODE 2012, WITH 2014/2015 GA AMENDMENTS
- INTERNATIONAL PLUMBING CODE 2012, WITH 2014/2015 GA AMENDMENTS
- INTERNATIONAL FIRE CODE 2012, WITH 2014/2015 GA AMENDMENTS
- GA ACCESSIBILITY CODE, CHAPTER 120-3-20(01-08) 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
- INTERNATIONAL ENERGY CONSERVATION CODE 2012, WITH GA AMENDMENTS
- NFPA NATIONAL ELECTRICAL CODE 2017

IBC-  
312.1 UTILITY/MISCELLANEOUS RESTROOMS

TABLE 503 - ALLOWABLE HEIGHT/AREA  
RESTROOM TYPE VB 1 STORY, 5,500 SF

TABLE 1004.1 - OCCUPANT LOAD  
RESTROOM 100 SF/PERSON (620 SF) = 7 OCCUPANTS

TABLE 2902.1 - PLUMBING FIXTURES  
ASSEMBLY (A5) WC LAV  
MEN 1:75 1:200  
WOMEN 1:40 1:150

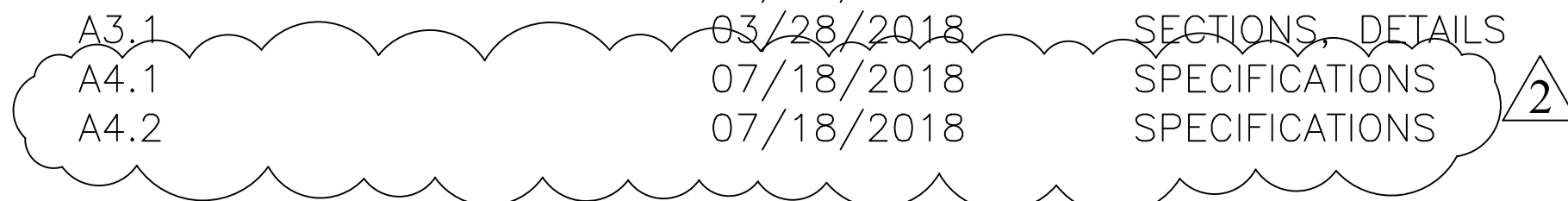
NFPA-  
6.1.2 ASSEMBLY OCCUPANCY

# CITY OF DUNWOODY WINDWOOD HOLLOW PARK RESTROOM

ISSUED FOR PERMIT MARCH 28, 2018

DRAWING INDEX:

SHEET	DATE	DESCRIPTION
A0.1	03/28/2018	INFORMATION SHEET
	03/6/2018	SITE INFO/COVER
2of4	03/06/2018	SITE EXISTING CONDITIONS
3of4	03/06/2018	SITE DEVELOPMENT PLAN
4of4	03/06/2018	SITE DETAILS
A1.1	03/28/2018	FLOOR PLANS, RCP
A1.2	03/28/2018	FRAMING PLANS
A2.1	03/28/2018	EXTERIOR ELEVATIONS
A3.1	03/28/2018	SECTIONS, DETAILS
A4.1	07/18/2018	SPECIFICATIONS
A4.2	07/18/2018	SPECIFICATIONS
M0.1	03/28/2018	NOTES, DIAGRAMS
M1.1	03/28/2018	PLANS
P0.1	03/28/2018	GENERAL NOTES, RISER DIAGRAMS
P1.1	03/28/2018	PLUMBING PLANS
E1	03/28/2018	GENERAL NOTES
E2	03/28/2018	ELECTRICAL PLANS
E3	03/28/2018	SPECIFICATIONS



PROJECT DESCRIPTION:

THE SCOPE OF THE WORK DESCRIBED WITHIN THESE DOCUMENTS SHALL INCLUDE THE CONSTRUCTION OF ONE (1) STRUCTURE-

BUILDING AREA LOCATION  
RESTROOM 225SF WINDWOOD HOLLOW PARK

NOTE THAT A BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED ON THE DOMESTIC WATER SERVICE BEING DELIVERED TO THE FACILITY.

THIS STRUCTURE IS UNDERSTOOD TO EXPEND LESS THAN THE PRESCRIBED AMOUNT OF ENERGY FOR SPACE CONDITIONING, AND THEREFORE NO ENERGY LOAD ANALYSIS HAS BEEN INCLUDED.

THIS STRUCTURE IS WOOD FRAMED CONSTRUCTION (TYPE VB) AND ON-GRADE SLAB.

THE ARCHITECT SHALL PERFORM CONSTRUCTION ADMINISTRATION SERVICES.

INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODIC DURING TASK LISTED	ACI 530/ASCE 5/TMS 402	ACI 530/ASCE 5/TMS 402	IBC SECTION
1. AS MASONRY CONSTRUCTION BEGINS THE FOLLOWING SHALL BE VERIFIED TO BE IN COMPLIANCE: A. PREPARATION OF SITE PREPARED MORTAR B. CONSTRUCTION OF MORTAR JOINTS C. LOCATION OF REINFORCEMENT AND CONNECTORS					ART. 2.1A ART. 3.3B ART. 3.4.3.1A
2. THE INSPECTION PROGRAM SHALL VERIFY: A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS B. TYPE, SIZE AND LOCATION OF ANCHORS INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION C. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCING LAP SPLICE REINFORCEMENTS D. WELDING OF REINFORCING BARS E. PROTECTION OF MASONRY DURING COLD WEATHER, TEMP BELOW 40 OR HOT WEATHER TEMP ABOVE 90			SEC. 1.2.2.1 2.14.3.1.1 SEC. 1.13 SEC. 2.1.10.7.2 SEC. 3.3.3.4	ART. 3.3G ART. 2.4.3.4 ART. 1.8C ART. 1.8D	SEC. 2107 SEC. 2104.3
3. PRIOR TO GRADING THE FOLLOWING SHALL BE VERIFIED TO BE IN COMPLIANCE: A. GRADING SPACE IS CLEAN B. PLACEMENT OF REINFORCEMENT AND CONNECTORS C. PROPORTIONS OF SITE PREPARED GROUT D. CONSTRUCTION OF MORTAR JOINTS			SEC. 1.13	ART. 3.4 ART. 2.1B ART. 3.3B	ART. 3.2D ART. 3.4 ART. 2.1B ART. 3.3B
4. GROUT PLACEMENT SHALL BE VERIFIED TO BE IN COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS					ART. 3.5
5. PREPARATION OF ANCHORED GROUT SPECIMENS FOR STRENGTH AND/OR PRISMS SHALL BE OBSERVED					ART. 1.4 SEC. 2105.3-2105.2.2
6. COMPLIANCE WITH REINFORCEMENT PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED					ART. 1.5
7. REVIEW CERTIFICATES OF COMPLIANCE ISSUED IN MASONRY CONSTRUCTION					SEC. 1709.1.3
8. VERIFICATION OF 3 AND 4 PRIOR TO CONSTRUCTION					SEC. 1708.1.3

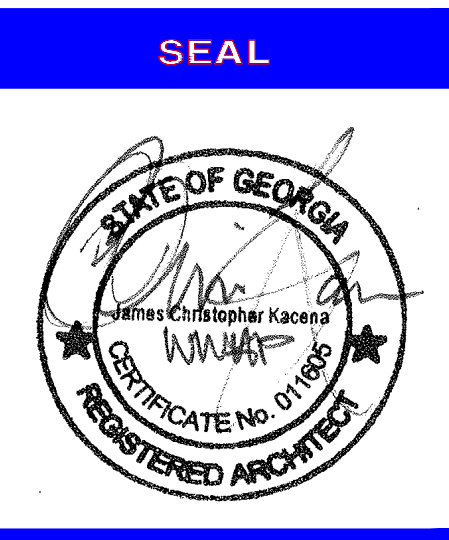
INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODIC DURING TASK LISTED	REFERENCED STANDARD	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL AND PLACEMENT			ACI 318, 3.5.1; 7.1.7.7	1.03.5.1; 07.1.1.07.7.1; 14.4
2. INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE				1.3.15
3. VERIFYING USE OF REINFORCED DESIGN MIX			ACI 318, CH. 4.5.2.5.4	1.04.1.05.2; 1.05.4
4. SAMPLING FRESH CONCRETE AND PERFORMING SLUMP AIR CONTENT AND DETERMINING THE TEMPERATURE OF FRESH CONCRETE AT THE TIME OF MAKING SPECIMENS FOR STRENGTH TESTS			ASTM C172 ASTM C311 ACI 318, 5.3.6.8	1.05.1; 1.14.10
5. INSPECTION OF CONCRETE FOR PROPER APPLICATION TECHNIQUES			ACI 318, 5.3.5.10	1.05.1.1; 05.10
6. INSPECTION FOR MAINTENANCE OF SPECIFIED CONCRETE TEMPERATURE AND TECHNIQUES			ACI 318, 5.11.5.13	1.05.11.1; 05.13
7. ERECTION OF PRECAST CONCRETE MEMBERS			NA ACI 318, CHPT. 11	
8. VERIFICATION OF IN-SITU CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS IN POSTTENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS			ACI 318, 11.2	
9. INSPECT FORM WORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED			ACI 318, 11.1	

VERIFICATION & INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODIC DURING TASK LISTED
1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY OF 2,500 PSF		X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIAL		X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL	X	
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		X

DESIGN CRITERIA:

- BUILDING CODE - INTERNATIONAL BUILDING CODE 2006 WITH GEORGIA AMENDMENTS.
- WIND LOADS:  
A. BASIC WIND SPEED ..... 90 MPH  
B. IMPORTANCE FACTOR (Iw) ..... 1.00  
C. EXPOSURE CATEGORY ..... B  
BASE WIND PRESSURE ..... MIN. INTERIOR WALL LOAD 10 PSF
- EARTHQUAKE LOADS:  
A. OCCUPANCY CATEGORY ..... II  
B. SDS = ..... 0.213  
C. SD1 = ..... 0.128  
D. SITE CLASS ..... D  
E. SEISMIC DESIGN CATEGORY ..... B  
IMPORTANCE FACTOR ..... ORDINARY REINFORCED MASONRY SHEAR
- RESPONSE MODIFICATION COEFFICIENT R = ..... 3.0  
G. EQUIVALENT LATERAL FORCE PROCEDURE ..... ASCE/SEI (SECTION 12.8)  
H. DESIGN BASE SHEAR = ..... 2 K ADD'L FROM NEW MEZZANINE

**CHRIS KACENA, AIA**  
 2944 RIDGELOCK COURT  
 ATLANTA, GA 30349  
 Phone: 404.803.3869  
 Email: chris.kacena@comcast.net



**WINDWOOD HOLLOW PARK  
RESTROOM ADDITION**  
 4865 LAKESIDE DRIVE  
 DUNWOODY, GA 30360

SHEET TITLE		
DRAWN:		
CHECKED:		
SCALE:		
DATE PRINTED		
3/28/2018		
REV.	DATE	REMARKS
2	7/18/18	PERMIT COMMENTS
SHEET NUMBER		
A0.1		
OF SHEETS		



**LEGEND**

○	POWER POLE (PP)
○	LIGHT POLE (LP)
—	EXISTING
---	PROPOSED
—	CONC.
—	FH
—	IM
—	IFF
—	REBAR
—	CMP
—	DEED BOOK
—	PAVE
—	ELEV.
—	TYP
—	SSMH
—	LF
—	PVC
—	EX. ABOVEGROUND POWER
—	EX. WATER LINE
—	EX. SANITARY SEWER
—	PROP. SANITARY SEWER
—	PROP. WATER LINE

- GENERAL NOTES**
1. CONTOURS ARE SHOWN AT 2' INTERVALS AND BASED UPON FIELD RUN SURVEY DATA.
  2. TOILET FACILITIES AVAILABLE FOR CONSTRUCTION WORKERS WITHIN 300' OF SITE.
  3. LIMITS OF CONSTRUCTION ARE DESIGNATED BY LOCATIONS OF SILT FENCE AND ±5' AROUND PROPOSED ADDITIONS.
  4. SITE DOES NOT HAVE STATE WATERS REQUIRING UNDISTURBED BUFFERS.
  5. SITE DOES NOT CONTAIN WETLANDS.
  6. ALL IMPROVEMENTS TO CONFORM WITH CITY OF DUNWOODY CONSTRUCTION STANDARDS AND SPECIFICATIONS, LAST EDITION.
  7. MAXIMUM CUT OR FILL SLOPES ARE 3 HORIZONTAL TO 1 VERTICAL.
  8. NO STRUCTURES, FENCES OR OTHER OBSTRUCTIONS MAY BE LOCATED WITHIN DRAINAGE OR ACCESS EASEMENTS.
  9. CONTRACTOR TO ADJUST FINAL GRADES PER OWNER RECOMMENDATIONS.

**NOTIFY CITY OF DUNWOODY 24-HOURS BEFORE COMMENCEMENT OF CONSTRUCTION**

**REFERENCE NOTE**  
BOUNDARY INFORMATION HEREIN TAKEN FROM SURVEY FOR CITY OF DUNWOODY PREPARED BY DAVIS ENGINEERING & SURVEYING, LLC., LAST DATED 2/7/18. TOPOGRAPHIC INFORMATION FROM FIELD RUN DATA BY DAVIS ENGINEERING & SURVEYING, LLC. CONTOUR INTERVAL = 2'. UTILITIES SHOWN HEREON ARE FROM EXISTING STRUCTURES AND ABOVE GROUND MARKS FOUND. DAVIS ENGINEERING & SURVEYING, LLC. IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES.

**DESCRIPTION OF EXISTING LAND USE**  
THE SUBJECT SITE CURRENTLY CONSISTS OF AN EXISTING PUBLIC PARK WITH A PAVILION, PLAYGROUND, TENNIS COURTS, AND ASPHALT PARKING. EXISTING VEGETATION CONSISTS OF WOODS OUTSIDE THE DEVELOPED AREAS.

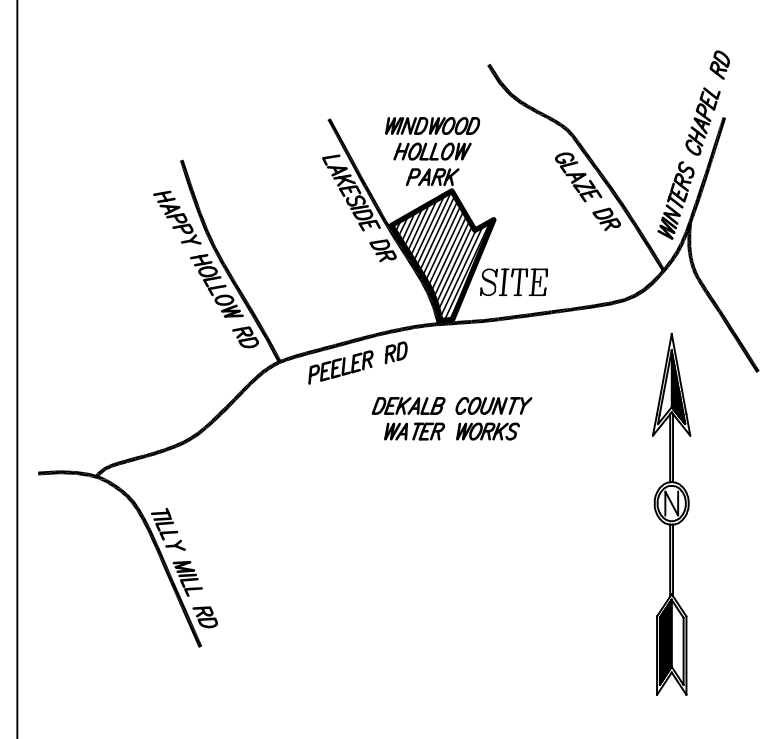
**DESCRIPTION OF PROPOSED LAND USE**  
THE PROPOSED PROJECT INCLUDES THE CONSTRUCTION OF A NEW 196 SF RESTROOM BUILDING WITH NEW CONCRETE SIDEWALKS.

**PROJECT BENCHMARK**  
TBM USED IS AN IRON PIN FOUND, 1/2" REBAR, LOCATED AT THE NORTHWEST CORNER OF THE PROPERTY. ELEVATION: 1052.35

**FLOOD NOTE**  
NO PORTION OF THIS SITE IS LOCATED WITHIN THE 100-YEAR FLOOD PRONE AREA AS PER FLOOD INSURANCE RATE MAP NO. 13089C00101, DATED 5/16/13.

**TOTAL AREA: 11.14 ACRES**  
**DISTURBED AREA: 0.11 ACRES**

IF ANY CONFLICTS, DISCREPANCIES, OR ANY OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED, EITHER ON THE CONSTRUCTION DOCUMENTS OR FIELD CONDITIONS, THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY AND SHALL NOT COMMENCE FURTHER OPERATION UNTIL THE CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE RESOLVED.



**LOCATION MAP**  
N.T.S.

**OWNER**  
CITY OF DUNWOODY  
41 PERIMETER CTR E #250  
DUNWOODY, GA 30346  
(678) 382-6700

**DEVELOPER**  
CITY OF DUNWOODY  
41 PERIMETER CTR E #250  
DUNWOODY, GA 30346

**24-HOUR CONTACT**  
CHRIS KACENA, AIA, LEED AP  
(404) 803-3869  
chriskacena@kacenedesign.com

LINE	BEARING	DISTANCE
L1	S86°23'00"W	101.80'
L2	N20°10'57"W	108.31'

LINE	CHORD BEARING	CHORD	ARC	RADIUS
C1	N16°11'28"W	14.05'	14.06'	100.94'
C2	N26°25'46"W	267.69'	268.22'	12,30.00'
C3	N31°04'42"W	152.16'	152.18'	2727.54'



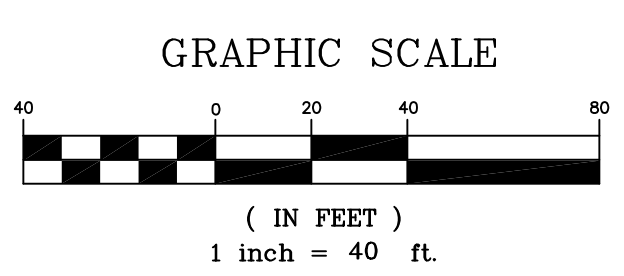
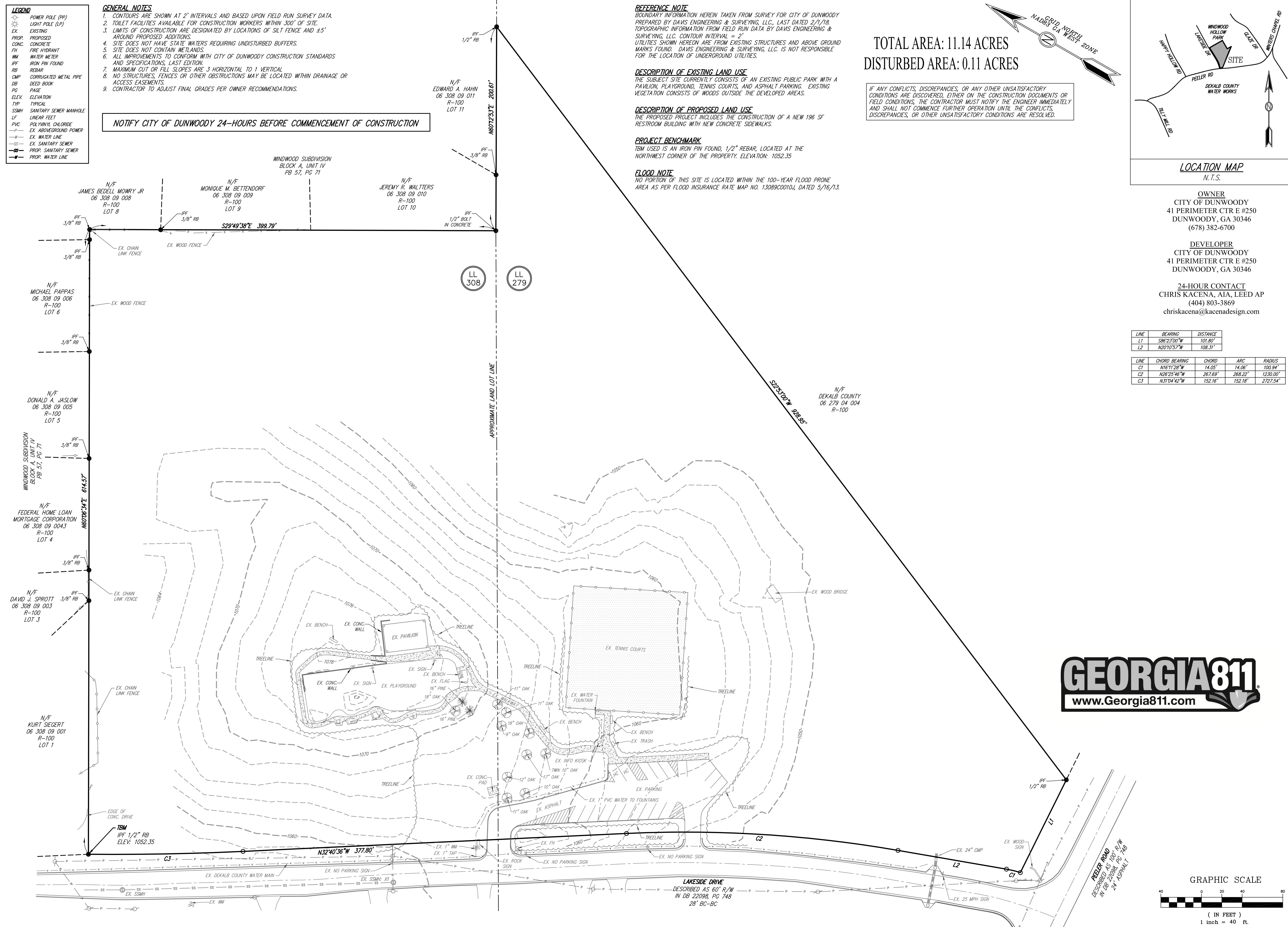
REVISION	DATE	DESCRIPTION
0	3/6/18	INITIAL SUBMITTAL
1	5/11/18	REVISED PER DEKALB COUNTY

**EXISTING CONDITIONS PLAN**  
**WINDWOOD HOLLOW PARK - ADDITION**  
LAND LOTS 279 & 308  
6TH DISTRICT  
DEKALB COUNTY, GEORGIA

**DRAWN BY:** TJB  
**CHECKED BY:** JKO  
**LAND LOT:** 279, 308  
**DISTRICT:** 6TH  
**SECTION:** -  
**CITY:** DUNWOODY  
**COUNTY:** DEKALB  
**DATE:** 3/6/18

**SHEET NO.**  
2 OF 4  
**PROJECT NO.**  
2018-001

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**LAKESIDE DRIVE**  
DESCRIBED AS 60' R/W  
IN DB 22088, PG 748  
28' BC-BC

**PEELER ROAD**  
DESCRIBED AS 100' R/W  
IN DB 22088, PG 748  
24' ASPHALT

**LEGEND**

PP	POWER POLE (PP)
LP	LIGHT POLE (LP)
EX	EXISTING
PR	PROPOSED
CONC.	CONCRETE
FH	FIRE HYDRANT
WM	WATER METER
IFF	IRON PIN FOUND
RB	REBAR
CMP	CORRUGATED METAL PIPE
DB	DEED BOOK
PS	PAVE
ELEV.	ELEVATION
TYP	TYPICAL
SSMH	SANITARY SEWER MANHOLE
LF	LINEAR FEET
PVC	POLYVINYL CHLORIDE
EX	EX. ABOVEGROUND POWER
EX	EX. WATER LINE
EX	EX. SANITARY SEWER
PR	PR. SANITARY SEWER
PR	PR. WATER LINE

- GENERAL NOTES**
1. CONTOURS ARE SHOWN AT 2' INTERVALS AND BASED UPON FIELD RUN SURVEY DATA.
  2. TOILET FACILITIES AVAILABLE FOR CONSTRUCTION WORKERS WITHIN 300' OF SITE.
  3. LIMITS OF CONSTRUCTION ARE DESIGNATED BY LOCATIONS OF SILT FENCE AND ±5' AROUND PROPOSED ADDITIONS.
  4. SITE DOES NOT HAVE STATE WATERS REQUIRING UNDISTURBED BUFFERS.
  5. SITE DOES NOT CONTAIN WETLANDS.
  6. ALL IMPROVEMENTS TO CONFORM WITH CITY OF DUNWOODY CONSTRUCTION STANDARDS AND SPECIFICATIONS, LAST EDITION.
  7. MAXIMUM CUT OR FILL SLOPES ARE 3 HORIZONTAL TO 1 VERTICAL.
  8. NO STRUCTURES, FENCES OR OTHER OBSTRUCTIONS MAY BE LOCATED WITHIN DRAINAGE OR ACCESS EASEMENTS.
  9. CONTRACTOR TO ADJUST FINAL GRADES PER OWNER RECOMMENDATIONS.

**IMPERVIOUS NOTE**  
 TOTAL PROPOSED NEW IMPERVIOUS AREA: 1,585 SF  
 LESS THAN 5,000 SF = DETENTION & WATER QUALITY NOT REQUIRED

- NOTE**
1. NO TREES TO BE REMOVED DURING CONSTRUCTION.
  2. ALL PROPOSED SIDEWALKS TO BE 3,000 PSI
  3. ALL PROPOSED SIDEWALKS NOT TO EXCEED 5.0% SLOPE
  4. PROPOSED ADDITION TO TIE TO EXISTING UTILITIES.

**REFERENCE NOTE**  
 BOUNDARY INFORMATION HEREIN TAKEN FROM SURVEY FOR CITY OF DUNWOODY PREPARED BY DAVIS ENGINEERING & SURVEYING, LLC., LAST DATED 2/1/18. TOPOGRAPHIC INFORMATION FROM FIELD RUN DATA BY DAVIS ENGINEERING & SURVEYING, LLC. CONTOUR INTERVAL = 2'. UTILITIES SHOWN HEREON ARE FROM EXISTING STRUCTURES AND ABOVE GROUND MARKS FOUND. DAVIS ENGINEERING & SURVEYING, LLC. IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES.

**DESCRIPTION OF EXISTING LAND USE**  
 THE SUBJECT SITE CURRENTLY CONSISTS OF AN EXISTING PUBLIC PARK WITH A PAVILION, PLAYGROUND, TENNIS COURTS, AND ASPHALT PARKING. EXISTING VEGETATION CONSISTS OF WOODS OUTSIDE THE DEVELOPED AREAS.

**DESCRIPTION OF PROPOSED LAND USE**  
 THE PROPOSED PROJECT INCLUDES THE CONSTRUCTION OF A NEW 196 SF RESTROOM BUILDING WITH NEW CONCRETE SIDEWALKS.

**PROJECT BENCHMARK**  
 ITEM USED IS AN IRON PIN FOUND, 1/2" REBAR, LOCATED AT THE NORTHWEST CORNER OF THE PROPERTY. ELEVATION: 1052.35

**FLOOD NOTE**  
 NO PORTION OF THIS SITE IS LOCATED WITHIN THE 100-YEAR FLOOD PRONE AREA AS PER FLOOD INSURANCE RATE MAP NO. 13089C00101, DATED 5/16/13.

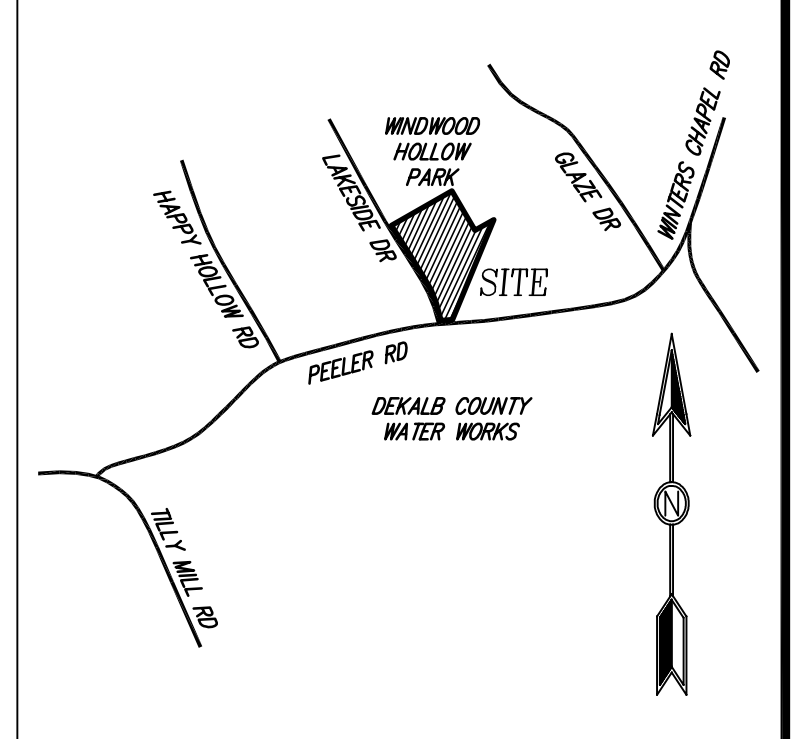
- EROSION & SEDIMENT CONTROL NOTES**
1. EROSION AND SEDIMENT SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENTATION CONTROLS AND PRACTICES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION BY OWNER, ENGINEER, OR INSPECTOR.
  2. THE INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.
  3. MAINTENANCE OF ALL SOIL EROSION & SEDIMENTATION CONTROL MEASURES & PRACTICES WHETHER TEMPORARY OR PERMANENT SHALL BE AT ALL TIMES AT THE RESPONSIBILITY OF THE PROPERTY OWNER.
  4. ALL DISTURBED AREAS TO BE GRASSED. GRASSING TO BEGIN WITHIN 7 DAYS AFTER THE COMPLETION OF ANY LAND DISTURBANCE ACTIVITY, OR IF ACTIVITY IS DISCONTINUED FOR A PERIOD OF 7 DAYS OR LONGER.
  5. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION EXIT SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE. ALL ENTRANCES TO THE SITE WHICH ARE NOT PROTECTED SHALL BE BARRICADED.
  6. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION. CALL THE CITY FOR AN INSPECTION PRIOR TO PERFORMING ANY OTHER WORK.
  7. THE LOCATION OF EROSION CONTROL DEVICES SHALL BE ADJUSTED AS CONSTRUCTION PROGRESSES IN ORDER TO MAINTAIN A FUNCTIONING EROSION CONTROL SYSTEM.
  8. EROSION CONTROL DEVICES SHALL BE INSPECTED AFTER EACH RAINFALL EVENT AND AT LEAST DAILY DURING PROLONGED PERIODS OF CONTINUOUS RAINFALLS.
  9. EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT COVER IS ESTABLISHED AND THEN REMOVED SO THAT DRAINAGE FROM THE SITE IS NOT IMPEDED.
  10. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY.
  11. THIS ES&PC PLAN IS IN COMPLIANCE WITH ALL WASTE DISPOSAL AND SANITARY SEWER REGULATIONS.

**TOTAL AREA: 11.14 ACRES**  
**DISTURBED AREA: 0.11 ACRES**

IF ANY CONFLICTS, DISCREPANCIES, OR ANY OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED, EITHER ON THE CONSTRUCTION DOCUMENTS OR FIELD CONDITIONS, THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY AND SHALL NOT COMMENCE FURTHER OPERATION UNTIL THE CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE RESOLVED.

- BACKFLOW PREVENTION NOTES**
1. ALL REQUIRED BACKFLOW PREVENTION DEVICES MUST BE INSTALLED PER DCDWM STANDARDS AS CLOSE AS PRACTICAL TO PROPERTY LINE, OUTSIDE OF PUBLIC RIGHT-OF-WAY, DEKALB COUNTY WATER LINE EASEMENTS, WATER METER EASEMENTS AND ANY OTHER DEKALB COUNTY & UTILITY COMPANIES EASEMENTS.
  2. INSTALLATION OF BACKFLOW PREVENTION DEVICES INSIDE OF THE BUILDING IS NOT ALLOWED WITHOUT PRIOR APPROVAL FROM BACKFLOW PREVENTION DIVISION OF DCDWM.
  3. CALL (404) 687-4075 FOR BACKFLOW PREVENTION INSPECTION PRIOR TO INSTALLING ANY BACKFLOW PREVENTION DEVICES.

**NO PROPOSED FIRE LINE**  
**NO PROPOSED IRRIGATION SYSTEM**



**LOCATION MAP**  
 N.T.S.

**OWNER**  
 CITY OF DUNWOODY  
 41 PERIMETER CTR E #250  
 DUNWOODY, GA 30346  
 (678) 382-6700

**DEVELOPER**  
 CITY OF DUNWOODY  
 41 PERIMETER CTR E #250  
 DUNWOODY, GA 30346

**24-HOUR CONTACT**  
 CHRIS KACENA, AIA, LEED AP  
 (404) 803-3869  
 chriskacena@kacenadesign.com

**SITE VISIT CERTIFICATION:**  
 I CERTIFY THAT A QUALIFIED PERSON FROM DAVIS ENGINEERING & SURVEYING, LLC, EITHER THE PLAN PREPARER OR THE DESIGNER, HAS VISITED THE SUBJECT SITE PRIOR TO THE CREATION OF THIS PLAN."

JASON K. DAVIS, P.E.      GSWCC CERTIFICATION  
 REG. GA. 034135      NO. 0000059573

**JASON K. DAVIS**  
 GSWCC  
 LEVEL II CERTIFICATION  
 NO. 0000059573

TOTAL STREAM BUFFERED AREA: 0.00± ACRES

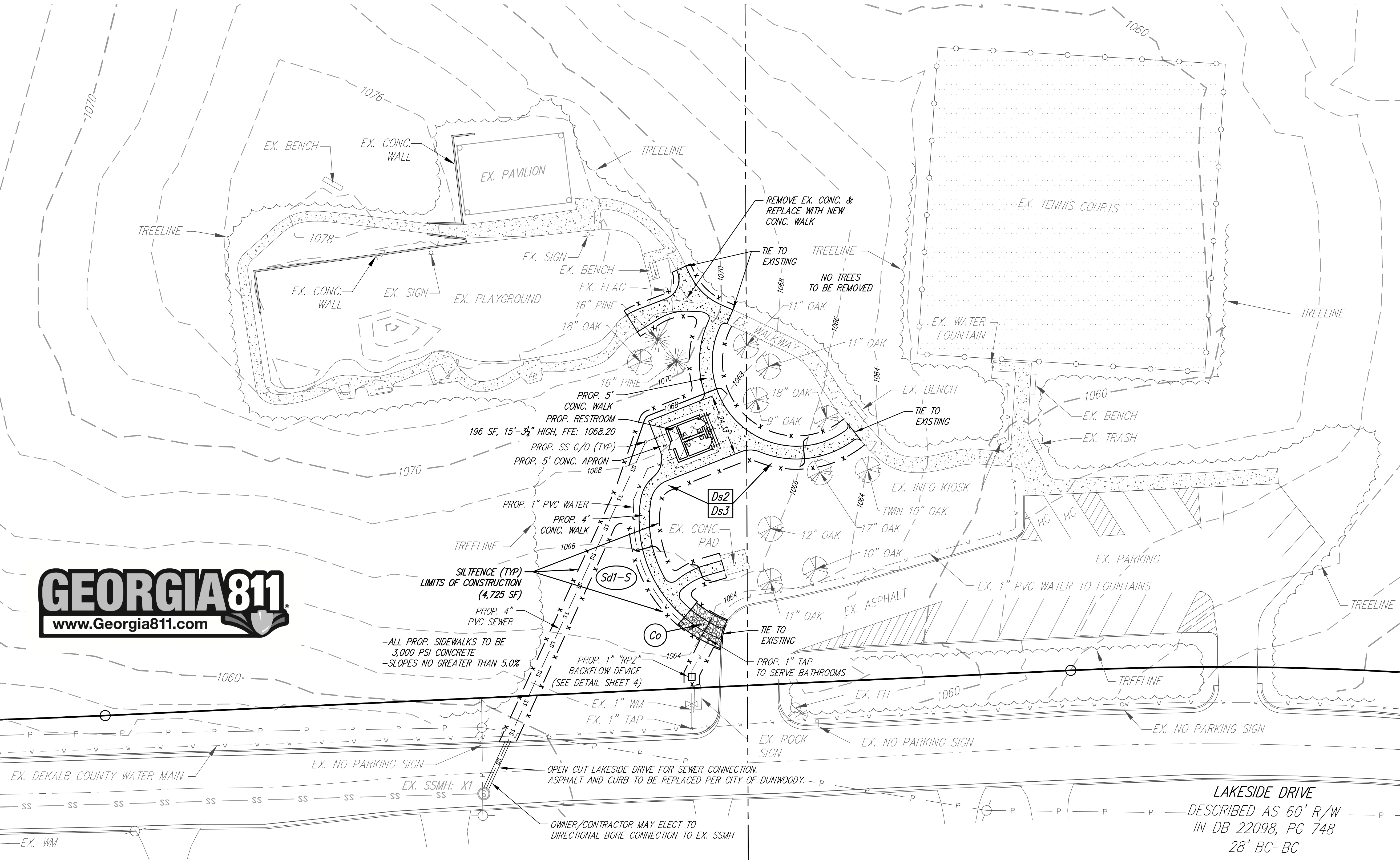
CONTRACTOR SHOULD NOT DISTURB ANY UNNECESSARY PORTIONS OF THE SITE.

**EROSION CONTROL LEGEND**

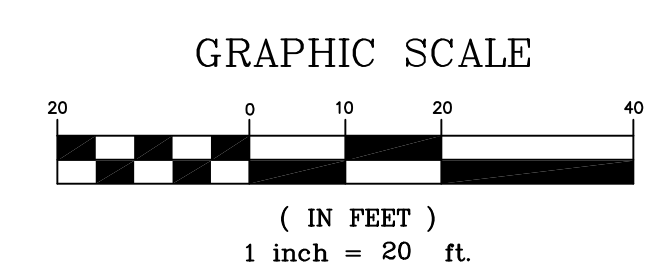
TEMPORARY CONSTRUCTION EXIT	Co
SEDIMENT BARRIER - SENSITIVE	Sd1-S
TEMPORARY GRASSING	Ds2
PERMANENT GRASSING	Ds3

- THERE IS NO CROSS CONNECTIONS ON SITE
- THERE IS NO EXISTING OR PROPOSED SWIMMING POOL ON SITE
- THERE IS NO EXISTING OR PROPOSED CARBONATED SODA MACHINE ON SITE
- THERE IS NO EXISTING OR PROPOSED CHILLER PLANT ON SITE
- THERE IS AN EXISTING WATER FOUNTAIN ON SITE
- THERE IS NO HAZARDOUS OR NONHAZARDOUS SYSTEMS CONNECTED WITH DEKALB COUNTY WATER DISTRIBUTION SYSTEM

**NOTIFY CITY OF DUNWOODY 24-HOURS BEFORE COMMENCEMENT OF CONSTRUCTION**



**LAKESIDE DRIVE**  
 DESCRIBED AS 60' R/W  
 IN DB 22098, PG 748  
 28' BC-BC



**DES DAVIS**  
 ENGINEERING & SURVEYING  
 133 PROMINENCE COURT  
 SUITE 210  
 DAWSONVILLE, GA 30534  
 PHONE: (706) 265-1234  
 DAVISENGINEERS.COM

**REGISTERED ENGINEER**  
 No. 034135  
 PROFESSIONAL  
**Jason K. Davis**  
 ENGINEER  
 JASON K. DAVIS  
 5/11/18

REVISION	DATE	DESCRIPTION
0	3/6/18	INITIAL SUBMITTAL
1	5/1/18	REVISED PER DEKALB COUNTY

**DEVELOPMENT PLAN**  
**WINDWOOD HOLLOW PARK - ADDITION**  
 LAND LOTS 279 & 308  
 6TH DISTRICT  
 DEKALB COUNTY, GEORGIA

**DRAWN BY:** TJB  
**CHECKED BY:** JKD  
**LAND LOT:** 279, 308  
**DISTRICT:** 6TH  
**SECTION:** -  
**CITY:** DUNWOODY  
**COUNTY:** DEKALB  
**DATE:** 3/6/18

**SHEET NO.**  
 3 OF 4  
**PROJECT NO.**  
 2018-001

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**LEGEND**

PP	POWER POLE (PP)
LP	LIGHT POLE (LP)
EX	EXISTING
PROP	PROPOSED
CONC	CONCRETE
TR	TRENCH
HY	HYDRANT
WM	WATER METER
IF	IRON PIN FOUND
RB	REBAR
CMP	CORRUGATED METAL PIPE
DB	DEED BOOK
PG	PAGE
ELEV	ELEVATION
TYP	TYPICAL
SSMH	SANITARY SEWER MANHOLE
LF	LINEAR FEET
PVC	POLYVINYL CHLORIDE
EX	EXISTING
PROP	PROPOSED
SS	SANITARY SEWER
WM	WATER METER
PP	POWER POLE

- GENERAL NOTES**
1. CONTOURS ARE SHOWN AT 2' INTERVALS AND BASED UPON FIELD RUN SURVEY DATA.
  2. TOILET FACILITIES AVAILABLE FOR CONSTRUCTION WORKERS WITHIN 300' OF SITE.
  3. LIMITS OF CONSTRUCTION ARE DESIGNATED BY LOCATIONS OF SILT FENCE AND ±5' AROUND PROPOSED ADDITIONS.
  4. SITE DOES NOT HAVE STATE WATERS REQUIRING UNDISTURBED BUFFERS.
  5. SITE DOES NOT CONTAIN WETLANDS.
  6. ALL IMPROVEMENTS TO CONFORM WITH CITY OF DUNWOODY CONSTRUCTION STANDARDS AND SPECIFICATIONS, LAST EDITION.
  7. MAXIMUM CUT OR FILL SLOPES ARE 3 HORIZONTAL TO 1 VERTICAL.
  8. NO STRUCTURES, FENCES OR OTHER OBSTRUCTIONS MAY BE LOCATED WITHIN DRAINAGE OR ACCESS EASEMENTS.
  9. CONTRACTOR TO ADJUST FINAL GRADES PER OWNER RECOMMENDATIONS.

**IMPERVIOUS NOTE**  
 TOTAL PROPOSED NEW IMPERVIOUS AREA: 1,585 SF  
 LESS THAN 5,000 SF = DETENTION & WATER QUALITY NOT REQUIRED

- NOTE**
1. NO TREES TO BE REMOVED DURING CONSTRUCTION.
  2. ALL PROPOSED SIDEWALKS TO BE 3,000 PSI
  3. ALL PROPOSED SIDEWALKS NOT TO EXCEED 5.0% SLOPE
  4. PROPOSED ADDITION TO TIE TO EXISTING UTILITIES.

**REFERENCE NOTE**  
 BOUNDARY INFORMATION HEREIN TAKEN FROM SURVEY FOR CITY OF DUNWOODY PREPARED BY DAVIS ENGINEERING & SURVEYING, LLC, LAST DATED 2/1/18. TOPOGRAPHIC INFORMATION FROM FIELD RUN DATA BY DAVIS ENGINEERING & SURVEYING, LLC. CONTOUR INTERVAL = 2'. UTILITIES SHOWN HEREON ARE FROM EXISTING STRUCTURES AND ABOVE GROUND MARKS FOUND. DAVIS ENGINEERING & SURVEYING, LLC IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES.

**DESCRIPTION OF EXISTING LAND USE**  
 THE SUBJECT SITE CURRENTLY CONSISTS OF AN EXISTING PUBLIC PARK WITH A PAVILION, PLAYGROUND, TENNIS COURTS, AND ASPHALT PARKING. EXISTING VEGETATION CONSISTS OF WOODS OUTSIDE THE DEVELOPED AREAS.

**DESCRIPTION OF PROPOSED LAND USE**  
 THE PROPOSED PROJECT INCLUDES THE CONSTRUCTION OF A NEW 196 SF RESTROOM BUILDING WITH NEW CONCRETE SIDEWALKS.

**PROJECT BENCHMARK**  
 TBM USED IS AN IRON PIN FOUND, 1/2" REBAR, LOCATED AT THE NORTHWEST CORNER OF THE PROPERTY. ELEVATION: 1052.35

**FLOOD NOTE**  
 NO PORTION OF THIS SITE IS LOCATED WITHIN THE 100-YEAR FLOOD PRONE AREA AS PER FLOOD INSURANCE RATE MAP NO. 13089C0010, DATED 3/16/13.

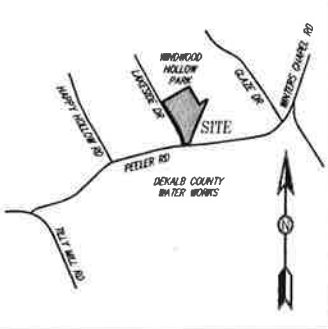
- EROSION & SEDIMENT CONTROL NOTES**
1. EROSION AND SEDIMENT SHALL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENTATION CONTROLS AND PRACTICES SHALL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION BY OWNER, ENGINEER, OR INSPECTOR.
  2. THE INSTALLATION OF EROSION AND SEDIMENTATION CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO OR CONCURRENT WITH LAND DISTURBING ACTIVITIES.
  3. MAINTENANCE OF ALL SOIL EROSION & SEDIMENTATION CONTROL MEASURES & PRACTICES WHETHER TEMPORARY OR PERMANENT SHALL BE AT ALL TIMES AT THE RESPONSIBILITY OF THE PROPERTY OWNER.
  4. ALL DISTURBED AREAS TO BE GRASSED. GRASSING TO BEGIN WITHIN 7 DAYS AFTER THE COMPLETION OF ANY LAND DISTURBANCE ACTIVITY, OR IF ACTIVITY IS DISCONTINUED FOR A PERIOD OF 7 DAYS OR LONGER.
  5. PRIOR TO ANY OTHER CONSTRUCTION, A STABILIZED CONSTRUCTION EXIT SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY TO OR EXIT FROM THE SITE. ALL ENTRANCES TO THE SITE WHICH ARE NOT PROTECTED SHALL BE BARRICADED.
  6. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION EXITS, ALL PERIMETER EROSION CONTROL DEVICES AND STORM WATER MANAGEMENT DEVICES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION. CALL THE CITY FOR AN INSPECTION PRIOR TO PERFORMING ANY OTHER WORK.
  7. THE LOCATION OF EROSION CONTROL DEVICES SHALL BE ADJUSTED AS CONSTRUCTION PROGRESSES IN ORDER TO MAINTAIN A FUNCTIONING EROSION CONTROL SYSTEM.
  8. EROSION CONTROL DEVICES SHALL BE INSPECTED AFTER EACH RAINFALL EVENT AND AT LEAST DAILY DURING PROLONGED PERIODS OF CONTINUOUS RAINFALLS.
  9. EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT COVER IS ESTABLISHED AND THEN REMOVED SO THAT DRAINAGE FROM THE SITE IS NOT IMPEDED.
  10. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND ANY DEFICIENCIES NOTED WILL BE CORRECTED BY THE END OF EACH DAY.
  11. THIS ESBPC PLAN IS IN COMPLIANCE WITH ALL WASTE DISPOSAL AND SANITARY SEWER REGULATIONS.

**TOTAL AREA: 11.14 ACRES**  
**DISTURBED AREA: 0.11 ACRES**

IF ANY CONFLICTS, DISCREPANCIES, OR ANY OTHER UNSATISFACTORY CONDITIONS ARE DISCOVERED, EITHER ON THE CONSTRUCTION DOCUMENTS OR FIELD CONDITIONS, THE CONTRACTOR MUST NOTIFY THE ENGINEER IMMEDIATELY AND SHALL NOT COMMENCE FURTHER OPERATION UNTIL THE CONFLICTS, DISCREPANCIES, OR OTHER UNSATISFACTORY CONDITIONS ARE RESOLVED.

- BACKFLOW PREVENTION NOTES**
1. ALL REQUIRED BACKFLOW PREVENTION DEVICES MUST BE INSTALLED PER DODM STANDARDS AS CLOSE AS PRACTICAL TO PROPERTY LINE, OUTSIDE OF PUBLIC RIGHT-OF-WAY, DEKALB COUNTY WATER LINE EASEMENTS, WATER METER EASEMENTS AND ANY OTHER DEKALB COUNTY & UTILITY COMPANIES EASEMENTS.
  2. INSTALLATION OF BACKFLOW PREVENTION DEVICES INSIDE OF THE BUILDING IS NOT ALLOWED WITHOUT PRIOR APPROVAL FROM BACKFLOW PREVENTION DIVISION OF DODM.
  3. CALL (404) 887-4075 FOR BACKFLOW PREVENTION INSPECTION PRIOR TO INSTALLING ANY BACKFLOW PREVENTION DEVICES.

NO PROPOSED FIRE LINE  
 NO PROPOSED IRRIGATION SYSTEM



**LOCATION MAP**  
 N.T.S.

**OWNER**  
 CITY OF DUNWOODY  
 41 PERIMETER CTR E #250  
 DUNWOODY, GA 30346  
 (678) 382-6700

**DEVELOPER**  
 CITY OF DUNWOODY  
 41 PERIMETER CTR E #250  
 DUNWOODY, GA 30346

**24-HOUR CONTACT**  
 CHRIS KACENA, AIA, LEED AP  
 (404) 803-3869  
 chris.kacena@kacena.com

**SITE LIST CERTIFICATION**

I CERTIFY THAT A QUALIFIED PERSON FROM DAVIS ENGINEERING & SURVEYING, LLC, EITHER THE PLAN PREPARER OR THE DESIGNER, HAS VISITED THE SUBJECT SITE PRIOR TO THE CREATION OF THIS PLAN.

REVISION	DATE	DESCRIPTION
0	3/6/18	INITIAL SUBMITTAL
1	5/11/18	REVISED PER DEKALB COUNTY
2	5/11/18	REVISED PER DEKALB COUNTY

JASON K. DAVIS, P.E. GSWCC CERTIFICATION NO. 0000059573  
 REG. GA. 034135

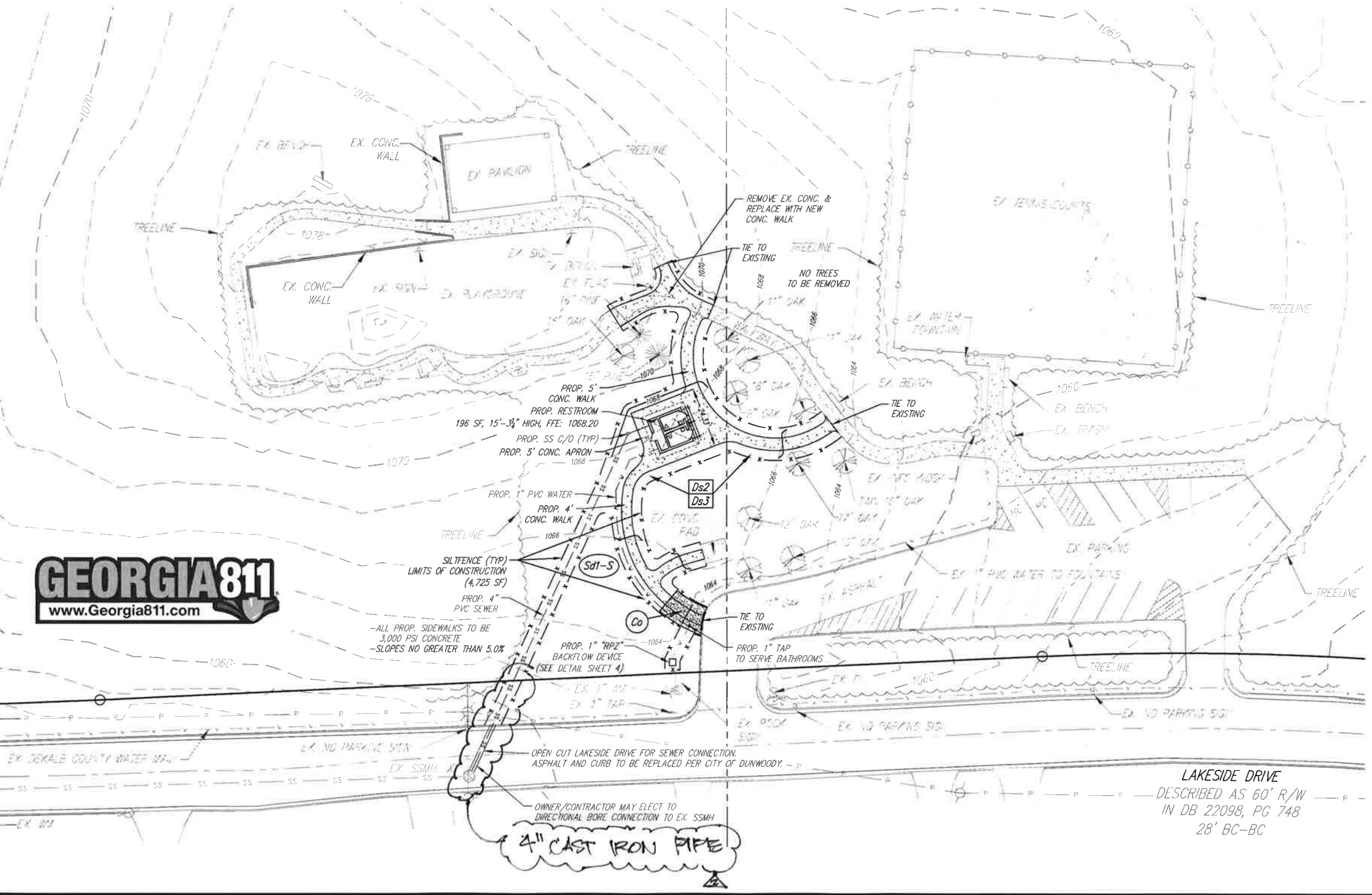
**JASON K. DAVIS**  
 GSWCC  
 LEVEL II CERTIFICATION  
 NO. 0000059573

TOTAL STREAM BUFFERED AREA: 0.00± ACRES  
 CONTRACTOR SHOULD NOT DISTURB ANY UNNECESSARY PORTIONS OF THE SITE.

**EROSION CONTROL LEGEND**

TEMPORARY CONSTRUCTION EXIT	Co
SEDIMENT BARRIER - SENSITIVE	Sd1-S
TEMPORARY GRASSING	Ds2
PERMANENT GRASSING	Ds3

- THERE IS NO CROSS CONNECTIONS ON SITE.
- THERE IS NO EXISTING OR PROPOSED SWIMMING POOL ON SITE.
- THERE IS NO EXISTING OR PROPOSED CARBONATED SODA MACHINE ON SITE.
- THERE IS NO EXISTING OR PROPOSED CHILLER PLANT ON SITE.
- THERE IS AN EXISTING WATER FOUNTAIN ON SITE.
- THERE IS NO HAZARDOUS OR NONHAZARDOUS SYSTEMS CONNECTED WITH DEKALB COUNTY WATER DISTRIBUTION SYSTEM.



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**DES DAVIS**  
 ENGINEERING & SURVEYING  
 133 PROMINENCE COURT  
 SUITE 210  
 DAWSONVILLE, GA 30534  
 PHONE: (706) 265-1234  
 DAVISENGINEERS.COM



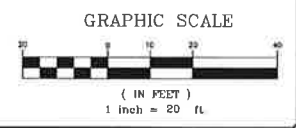
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**DEVELOPMENT PLAN**  
**WINDWOOD HOLLOW PARK - ADDITION**  
 LAND LOTS 279 & 308  
 6TH DISTRICT  
 DEKALB COUNTY, GEORGIA

DRAWN BY: TJB  
 CHECKED BY: JMD  
 LAND LOT: 279, 308  
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SHEET NO.  
**3 of 4**

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**MINIMUM CONTAINMENT PROTECTION REQUIREMENT  
NEW CONSTRUCTION AND RETROFIT INSTALLATIONS**

SERVICE SIZE: 3/4" THROUGH 2" METER SIZE: THROUGH 2"  
REDUCED PRESSURE ZONE BACKFLOW PREVENTER (RPZ BFP) ASSEMBLY

**SPECIFICATIONS:** The CUSTOMER/OWNER shall furnish and install a REDUCED PRESSURE ZONE BACKFLOW PREVENTER (RPZ BFP) in a size to match that of the required service meter. The RPZ BFP assembly shall include a full port ball valve on the inlet and outlet sides with a union between the device and each valve. The device shall have three ball valve test cocks in an acceptable position fitted with brass or plastic plugs. A fourth test cock shall be provided on the upstream side of the inlet shut-off valve. A strainer shall be installed immediately upstream of the BFP, unless the BFP is directly downstream of the meter. All components of the assembly shall be equivalent to bronze or stainless steel construction and assembled with bolts that are resistant to electrolysis.

**NOTE:** All components of the assembly shall be certified by a nationally recognized testing laboratory. The RPZ device shall have current approval from the University of Southern California, foundation for Cross Connection Control and Hydraulic Research (USC-FCHHR). Assembly to be individually factory tested, shipped and installed as a unit.

**INSTALLATION INSTRUCTIONS:** The RPZ BFP assembly shall not be installed below ground. If installed outdoors, an above-ground enclosure must be provided for protection from freezing temperatures. Indoor installations shall be readily accessible for testing and maintenance and may not be installed any higher than 6 feet from the floor. Install an approved drain with an air gap where relief zone discharge could cause water damage. No connection will be allowed between the service meter and a BFP used for system containment unless this connection is protected by an approved BFP.

**CAUTION:** Section 607.3, Thermal Expansion Control, of the International Plumbing Code, 2006, as adopted by the Georgia State Plumbing Code (combined 2007 and 2008 Amendments) should be incorporated in the design of installations and duly noted on all applicable drawings prior to the installation of any inline checking device(s).

**DEVICE TESTING:** All RPZ assemblies shall be tested at time of installation and at least ANNUALLY thereafter. Cross-Connection Control Specialist, at 770-414-2354 for installation inspections and device tests.

**APPROVED DEVICES (or equivalent)**

Device	Size
Conbraco 40-200-	3/4", 1", 1 1/2", 2"
Fabco 825Y, 825YA-	3/4", 1", 1 1/2", 2"
Hersey FRPZ-	3/4", 1", 1 1/2", 2"
Watts U-909-QT or U-009-QT	3/4", 1", 1 1/2", 2"
Wilkins 975XLU	3/4", 1", 1 1/2", 2"

**APPROVED INSTALLATION OF  
REDUCED-PRESSURE-PRINCIPAL  
DEVICE**

**1. ABOVE GROUND**

**2. IN BUILDING**

**3. IN BASEMENT**

DEKALB COUNTY, GA.  
Department of Watershed  
Management

**STANDARD DETAILS**

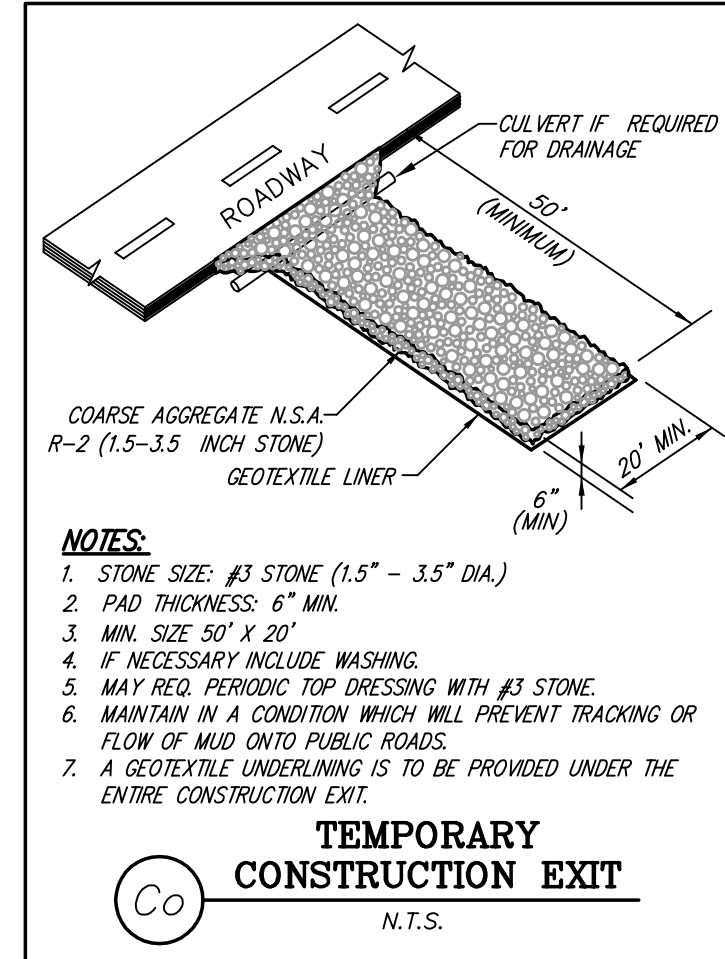
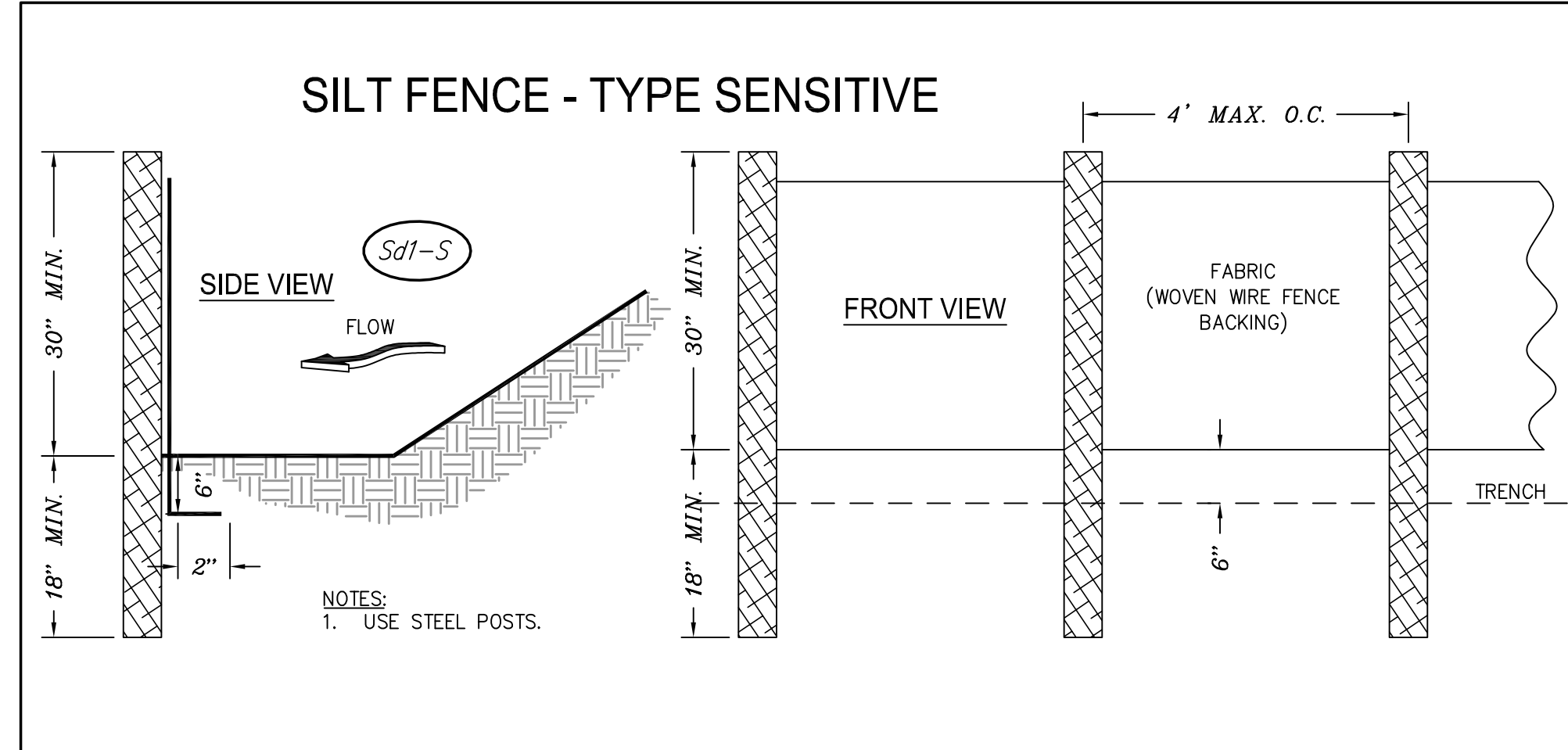
**RPZ BFP Installation**

**3/4" to 2"**

NOT TO SCALE

11/07

DETAIL NO. W-014



**CRITICAL AREA VEGETATIVE PLAN**

Ds1

Ds2

Ds3

**GENERAL:** THIS VEGETATIVE PLAN WILL BE CARRIED OUT ON ROAD CUT AND FILL SLOPES, SHOULDERS AND OTHER CRITICAL AREAS CREATED BY CONSTRUCTION IN AN AREA IS COMPLETED. PLANTINGS WILL BE MADE TO CONTROL EROSION, TO REDUCE DAMAGES FROM SEDIMENT AND RUNOFF TO DOWNSTREAM AREAS AND TO IMPROVE THE SAFETY AND BEAUTY OF THE DEVELOPMENT AREA.

**SOIL CONDITIONS:** DUE TO GRADING AND CONSTRUCTION, THE AREAS TO BE TREATED ARE MAINLY SUBSOIL AND SUBSTRATA. FERTILITY IS LOW AND THE PHYSICAL CHARACTERISTICS OF THE EXPOSED MATERIAL ARE UNFAVORABLE TO ALL BUT THE MOST HARDY PLANTS.

**TREATMENT SPECIFICATIONS:**

**CONVENTIONAL SEEDING EQUIPMENT:** GRADE, SHAPE AND SMOOTH WHERE NEEDED TO PROVIDE FOR SAFE EQUIPMENT OPERATION AT SEEDING TIME AND FOR MAINTENANCE PURPOSES. THE LIME AND FERTILIZER IN DRY FORM WILL BE SPREAD UNIFORMLY OVER THE AREA IMMEDIATELY BEFORE SEEDBED PREPARATION. A SEEDBED WILL BE PREPARED BY SCRAPING TO A DEPTH OF 1 TO 4 INCHES AS DETERMINED ON SITE. THE SEEDBED MUST BE WELL FULVERIZED, SMOOTHED AND FIRMED. SEEDING WILL BE DONE WITH CULTIPACKER-SEEDER, DRILL, ROTARY SEEDER OR OTHER MECHANICAL OR HAND SEEDER. SEED WILL BE DISTRIBUTED UNIFORMLY OVER THE AREA, LEAVING ABOUT 25 PERCENT OF THE GROUND SURFACE EXPOSED. MULCH WILL BE SPREAD WITH BLOWER-TYPE MULCH EQUIPMENT OR BY HAND AND ANCHORED IMMEDIATELY AFTER IT IS SPREAD. A DISK HARROW WITH THE DISK SET STRAIGHT OR A SPECIAL PACKER DISK MAY BE USED TO PRESS THE MULCH INTO THE SOIL. THE PER ACRE APPLICATION RATES ARE AS FOLLOWS:

SEED SPECIES	APPLICATION RATE/ACRES	PLANTING DATES
HULLED COMMON BERMIUDAGRASS	10 LBS	3/1 - 6/15
FESCUE	50 LBS	9/1 - 10/31
FESCUE	50 LBS	11/1 - 2/28
RYE	50 LBS	
HAY MULCH FOR TEMPORARY COVER	5000 LBS	6/15 - 8/3

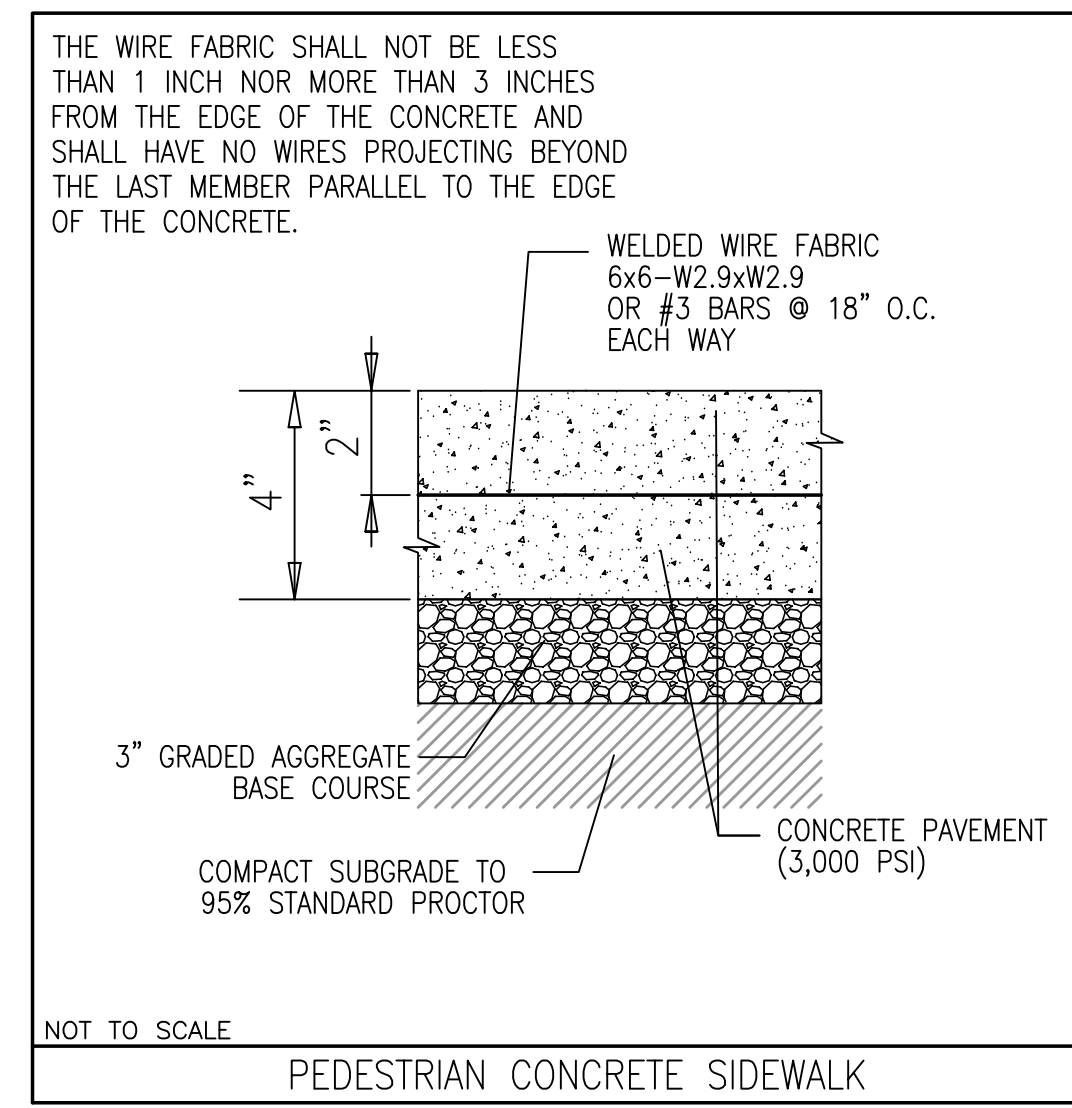
**A. SEEDING WITH MULCH: (CONVENTIONAL SEEDING EQUIPMENT ON SLOPES LESS THAN 3:1)**

AGRICULTURAL LIMESTONE	4000 lbs./acre
FERTILIZER, 5-10-15	1500 lbs./acre
MULCH, STRAW OR HAY	5000 lbs./acre

**B. TOPDRESSING: APPLY WHEN PLANTS ARE 2 TO 4 INCHES TALL**

FERTILIZER (AMMONIUM NITRATE 33.5%)	300 LBS/ACRE
-------------------------------------	--------------

**C. SECOND-YEAR FERTILIZER: (5-10-15 OR EQUIVALENT)** 800 LBS/ACRE



DES  
DAVIS

ENGINEERING & SURVEYING  
133 PROMINENCE COURT  
SUITE 210  
DAWSONVILLE, GA 30534  
PHONE: (706) 265-1234  
DAVISENGINEERS.COM

REGISTERED  
PROFESSIONAL  
ENGINEER  
*Jason K. Davis*  
JASON K. DAVIS  
5/11/18

REVISION	DATE	DESCRIPTION
INITIAL SUBMITTAL	3/6/18	
REVISED PER DEKALB COUNTY	5/11/18	

DETAILS

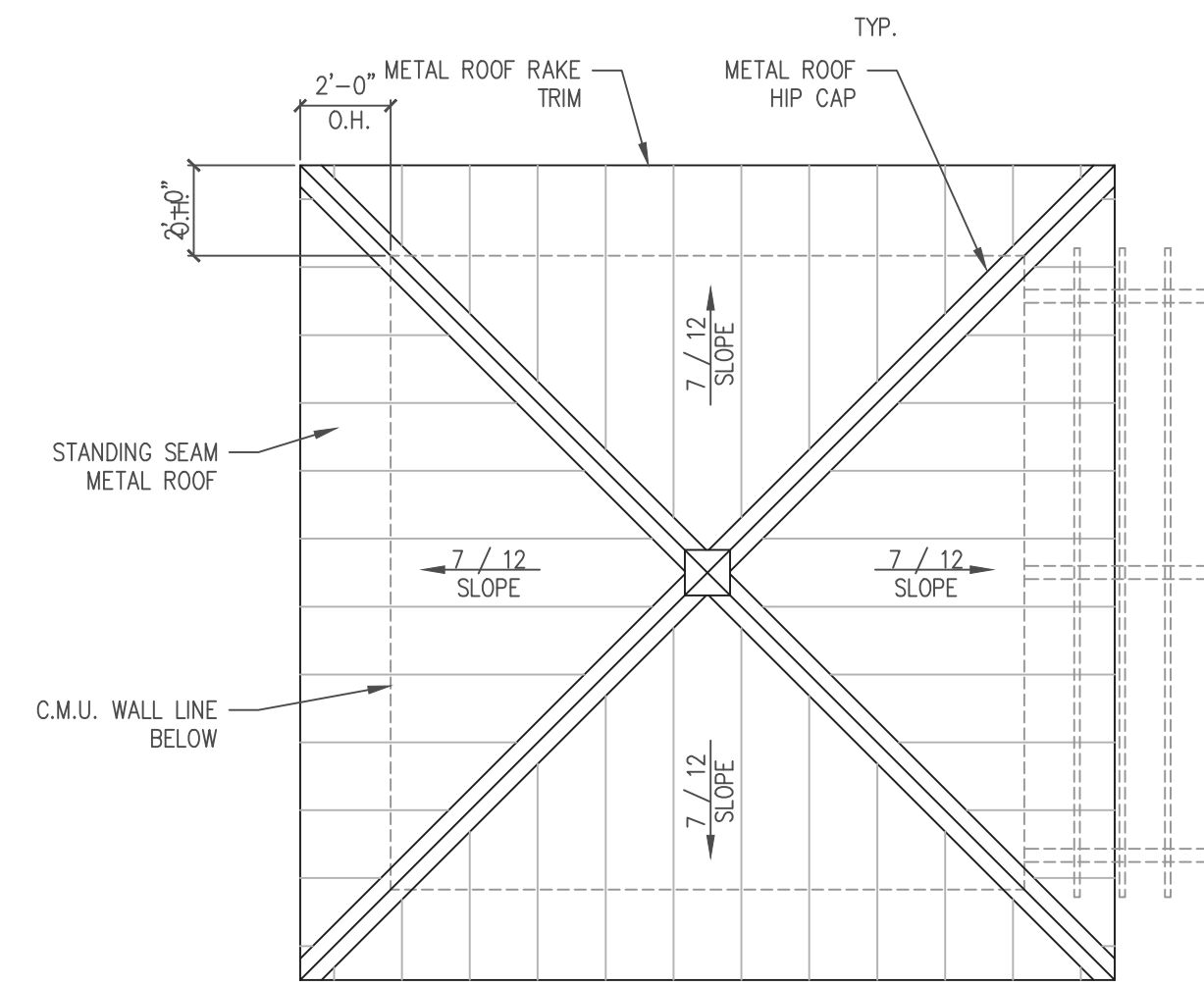
WINDWOOD  
HOLLOW PARK - ADDITION

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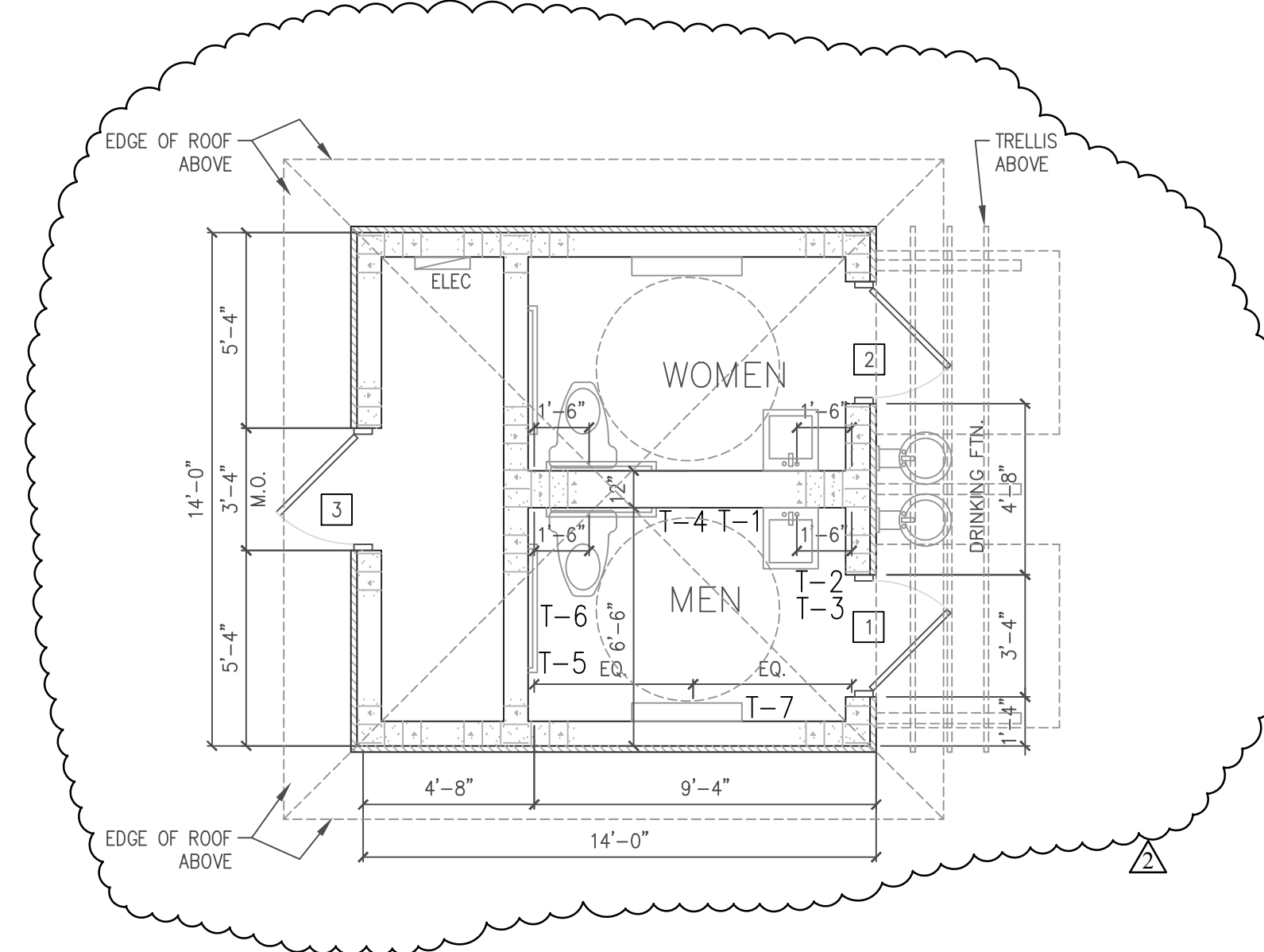
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SHEET NO.  
**4** OF **4**

PROJECT NO.  
**2018-001**



1 RESTROOM ROOF PLAN  
A1.1 1/4" = 1'-0"

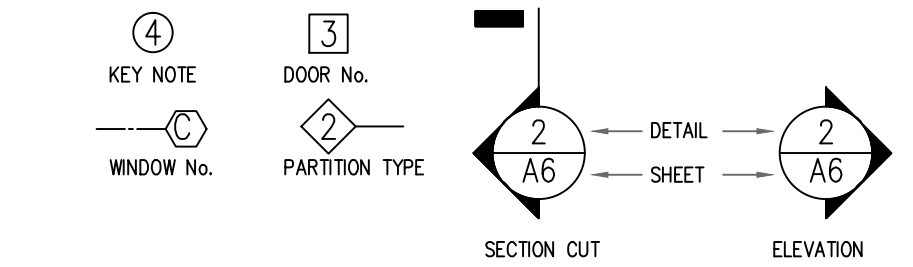


2 RESTROOM FLOOR PLAN  
A1.1 1/4" = 1'-0"

DOOR SCHEDULE

No.	SIZE	SIZE	TYPE	FRAME	HARDWARE
1	3'-0" x 7'-0"	MEN'S TOILET	H.M.	H.M.	ALL HARDWARE SETS SHALL BE ADA COMPLIANT REFER TO A4.2 FOR SPECIFICATIONS
2	3'-0" x 7'-0"	WOMEN'S TOILET	H.M.	H.M.	
3	3'-0" x 7'-0"	STOR. / UTIL.	H.M.	H.M.	

SYMBOLS



PARTITION TYPES

- EXTERIOR WALL: REINFORCED 8" C.M.U. WALL WITH APPLIED STONE VENEER, (PAINT INTERIOR), SEE WALL SECTION ( 1/A3.1 )
- INTERIOR WALL: REINFORCED 8" C.M.U. WALL (PAINT INTERIOR), SEE DETAIL ( 3/A3.1 )
- PIER: REINFORCED 16" SQUARE 8" C.M.U. PIER WITH APPLIED TAPERED STONE VENEER (2" TOTAL TAPER), SEE DETAIL ( 4/A3.1 )

CEILING LEGEND

- SURFACE MOUNTED SINGLE BULB 4' FLOURESCENT LIGHT FIXTURE
- WALL MOUNTED SECURITY LIGHT (ALL CONNECTED TO DAYLIGHT SENSOR CONTROL)
- RECESSED EXTERIOR CAN LIGHT (ALL CONNECTED TO DAYLIGHT SENSOR CONTROL)
- GYPSUM BOARD CEILING APPLIED TO UNDERSIDE OF ROOF TRUSSES
- BOARD & BATTEN CEILING APPLIED TO UNDERSIDE OF ROOF TRUSSES

TOILET FIXTURES

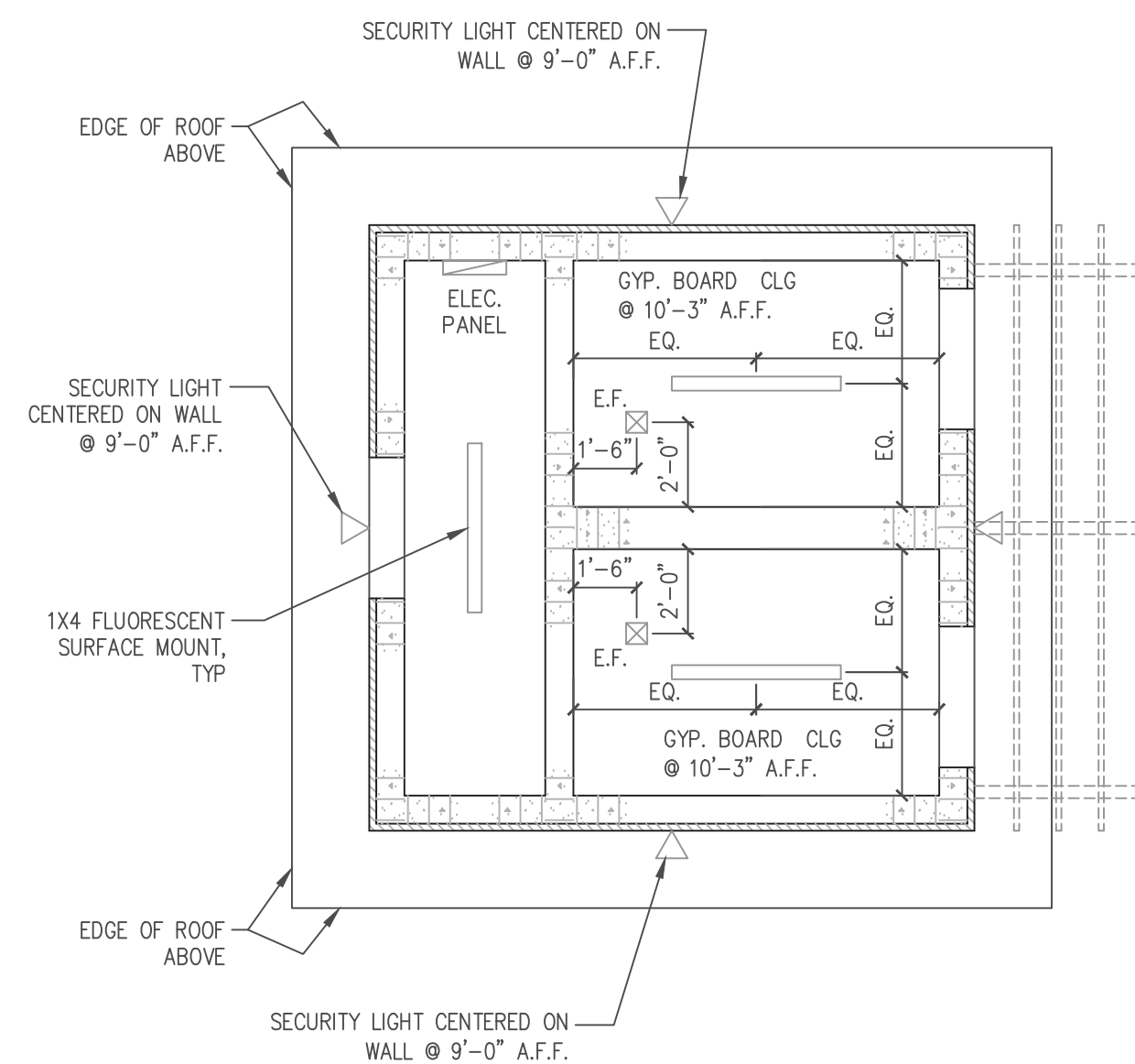
- P-1a WALL HUNG SINK (ACCESSIBLE)
- P-2a FLOOR MOUNTED FLUSH VALVE WATER CLOSET (ACCESSIBLE)

TOILET ACCESSORIES

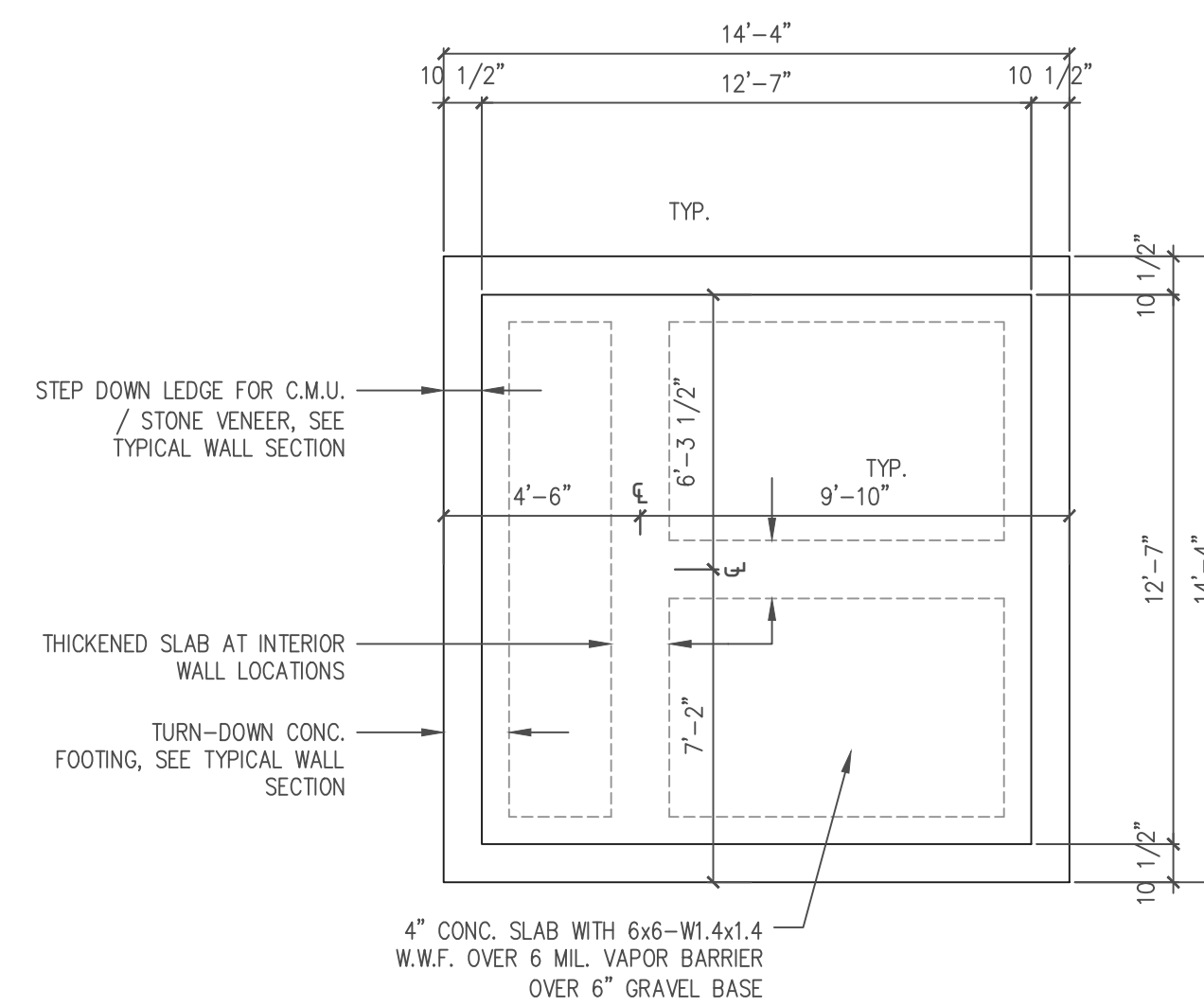
- T-1 WALL MOUNTED FRAMED MIRROR (24" X 36")
- T-2 WALL MOUNTED LIQUID SOAP DISPENSER
- T-3 WALL MOUNTED PAPER TOWEL DISPENSER
- T-4 WALL / PARTITION MOUNTED GRAB BAR (36")
- T-5 WALL / PARTITION MOUNTED GRAB BAR (42")
- T-6 WALL / PARTITION MOUNTED TOILET PAPER DISPENSER
- T-7 WALL MOUNTED BABY CHANGING STATION

PLAN NOTES

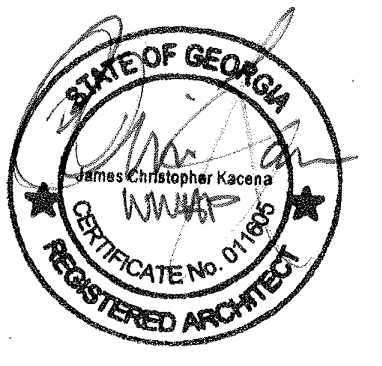
- PROVIDE AND INSTALL SLIP RESISTANT TRAFFIC COATING AT ALL FLOORS
- CITY TO PROVIDE DEADBOLT CYLINDERS FOR DOOR HARDWARE
- PROVIDE CONCRETE SPLASH BLOCK AT EACH DOWNSPOUT LOCATION.
- REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS.
- SEE CIVIL DRAWINGS FOR SITE IMPROVEMENTS



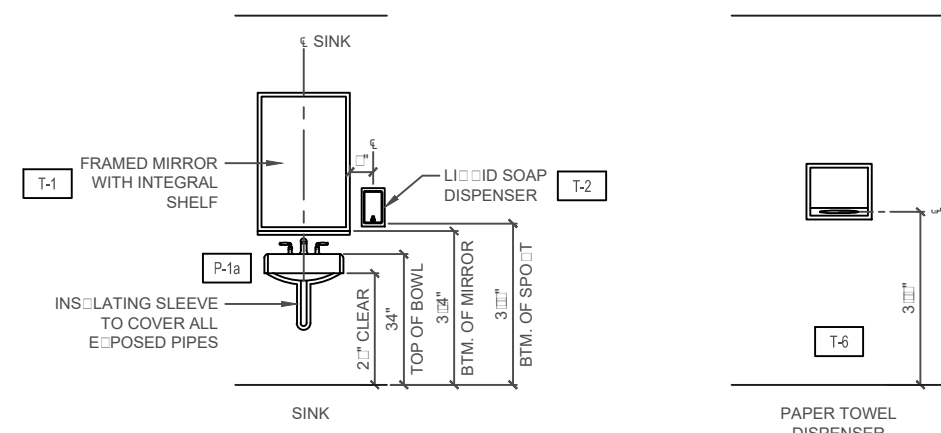
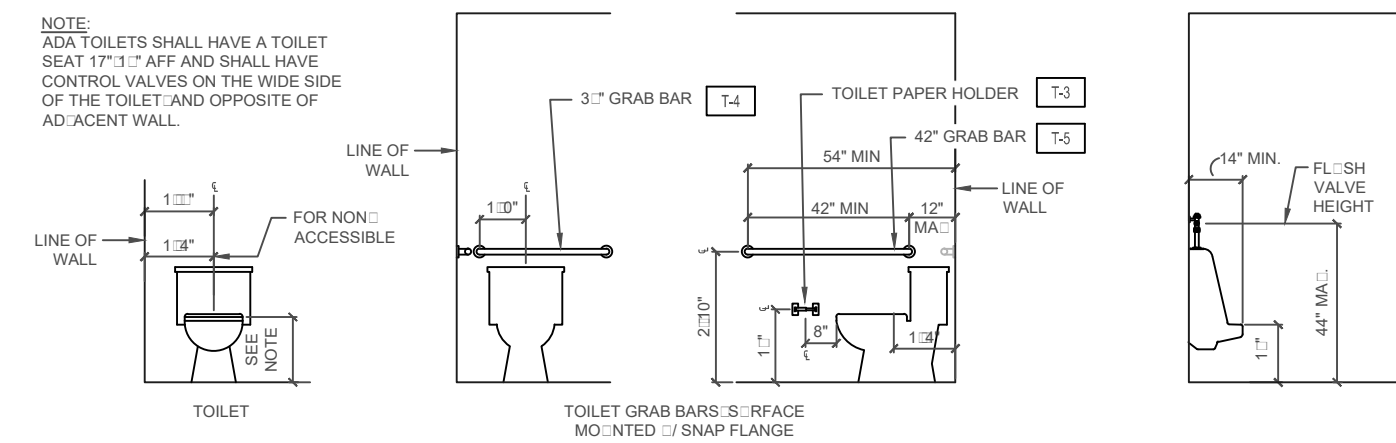
3 RESTROOM REFLECTED CEILING PLAN  
A1.1 1/4" = 1'-0"



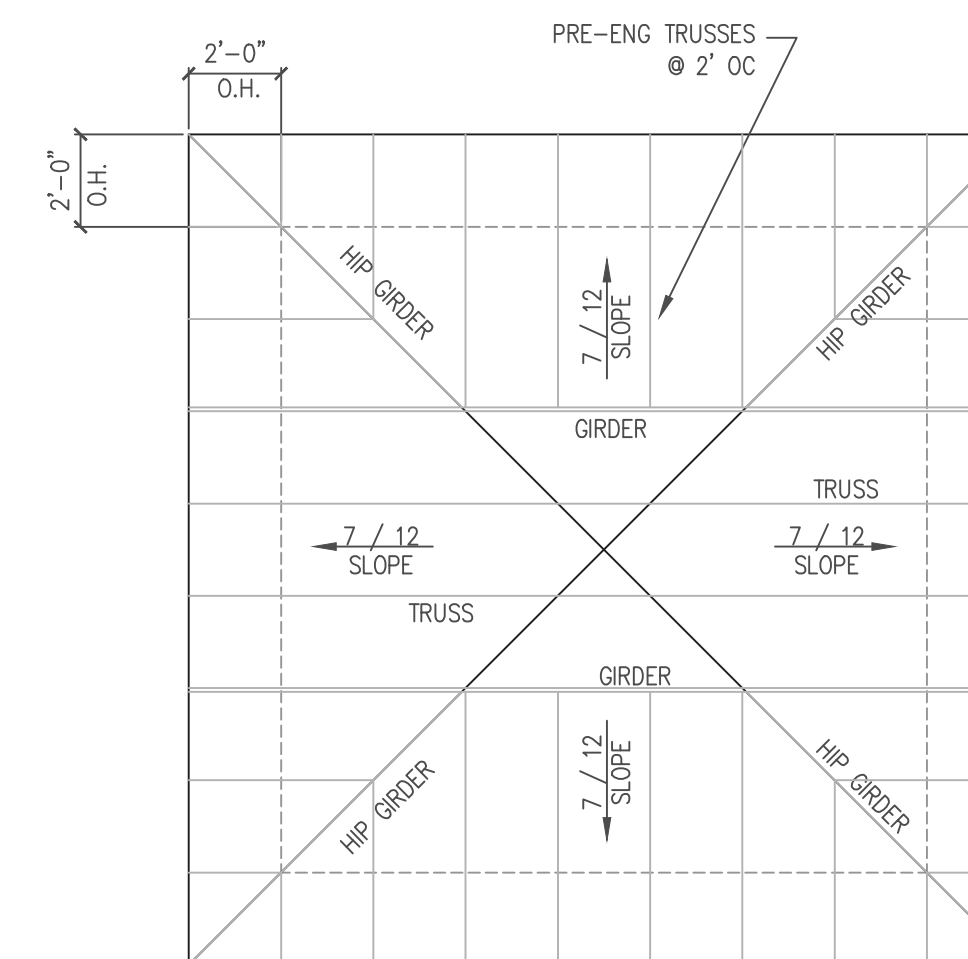
4 RESTROOM SLAB PLAN  
A1.1 1/4" = 1'-0"



WINDWOOD HOLLOW PARK  
RESTROOM ADDITION  
4865 LAKESIDE DRIVE  
DUNWOODY, GA 30360



**1 ACCESSIBILITY DETAILS**  
A1.2 1/4" = 1'-0"



**2 ROOF FRAMING PLAN**  
A1.2 1/4" = 1'-0"

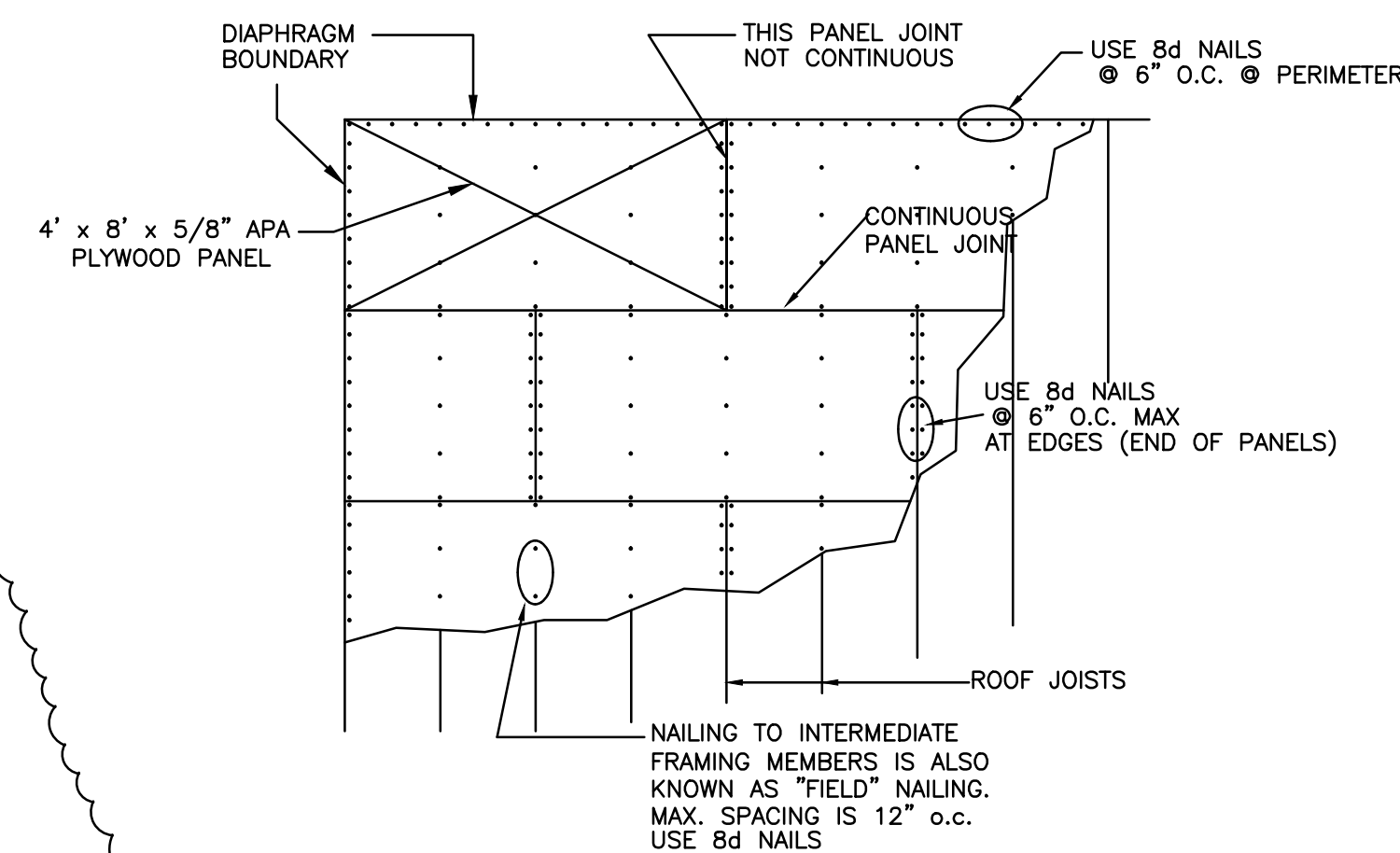
**ROOF FRAMING NOTES:**

1. ROOF DECK TO BE 5/8" APA PLYWOOD SHEATHING FASTEN w/ 8d NAILS @ 6" O.C. AT EDGES AND 8d NAILS @ 12" O.C. IN THE FIELD.
2. U.N.O. ALL ROOF JOISTS HAVE SIMPSON H2.5 HURRICANE TIES AT SUPPORT LOCATIONS.
3. U.N.O. ROOF FRAMING IS NOT DESIGNED TO ACCOMODATE CONCENTRATED LOADS DUE TO MECHANICAL EQUIPMENT.
4. TRUSS LAYOUT AND PROFILES BY TRUSS MANUFACTURER.
5. ALL EXTERIOR WALLS ARE LOAD BEARING.
6. SEE PLAN S0.1 FOR GENERAL NOTES
7. U.N.O. ALL PRE-MANUFACTURED WOOD TRUSSES ARE @ 24" O.C. MAX.
8. ALL TRUSSES ARE PRE-MANUFACTURED WOOD TRUSSES WITH GIVEN SLOPES UNLESS NOTED OTHERWISE.

<b>ROOF LOADS:</b>		
ROOFING MATERIAL:	3	PSF
SELFWEIGHT:	4	PSF
CEILING & LIGHTS:	3	PSF
TOTAL DEAD LOAD:	10	PSF
TOTAL LIVE LOAD:	20	PSF
NET UPLIFT DUE TO WIND ON JOIST:	9	PSF

**FOUNDATION NOTES:**

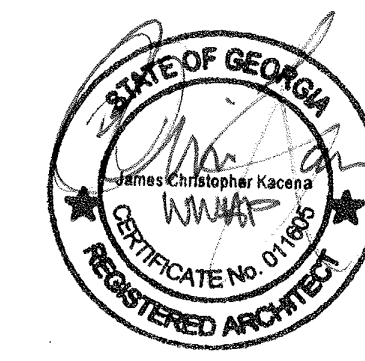
1. SLAB ON GRADE SHALL BE 4" THICK CONCRETE (f'c = 3000 PSI) WITH (1) LAYER OF 6x6-W1.4xW1.4 W.W.F. 1" FROM TOP OF SLAB OVER 10 MIL VAPOR BARRIER ON 4" MIN. GRANULAR BASE. ALL SLOPES TO DRAIN SHALL BE ACCOMODATED BY SLOPING BOTTOM AND TOP OF SLAB AT THE SAME RATE.
2. ALL ELEVATIONS REFERENCE FROM FINISHED FLOOR ELEVATION OF 0'-0"
3. ALL EXTERIOR TOP OF FOOTINGS SHALL BE -1'-6" BELOW FINISH FLOOR MIN. UNO.
4. 2000 PSF SOIL CAPACITY SHALL BE FIELD VERIFIED
5. ALL FOOTINGS TO REST ON UNDISTURBED SOIL.



**PARTIAL ROOF/FLOOR PLAN  
NAILING PATTERN AT DIAPHRAGM  
NOT TO SCALE**

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SEAL



LOCATION

**WINDWOOD HOLLOW PARK  
RESTROOM ADDITION**  
4865 LAKESIDE DRIVE  
DUNWOODY, GA 30360

SHEET TITLE

**FRAMING  
PLANS**

DRAWN:  
CHECKED:  
SCALE:

DATE PRINTED

3/28/2018

REV. DATE REMARKS  
2 2 07/18/18 PERMIT COMMENTS

SHEET NUMBER

**A1.2**

OF SHEETS



SEAL



LOCATION

**WINDWOOD HOLLOW PARK  
 RESTROOM ADDITION**  
 4865 LAKESIDE DRIVE  
 DUNWOODY, GA 30360

SHEET TITLE

**EXTERIOR  
 ELEVATIONS**

DRAWN:  
 CHECKED:  
 SCALE:

DATE PRINTED

3/28/2018

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 2 07/18/18 PERMIT COMMENTS

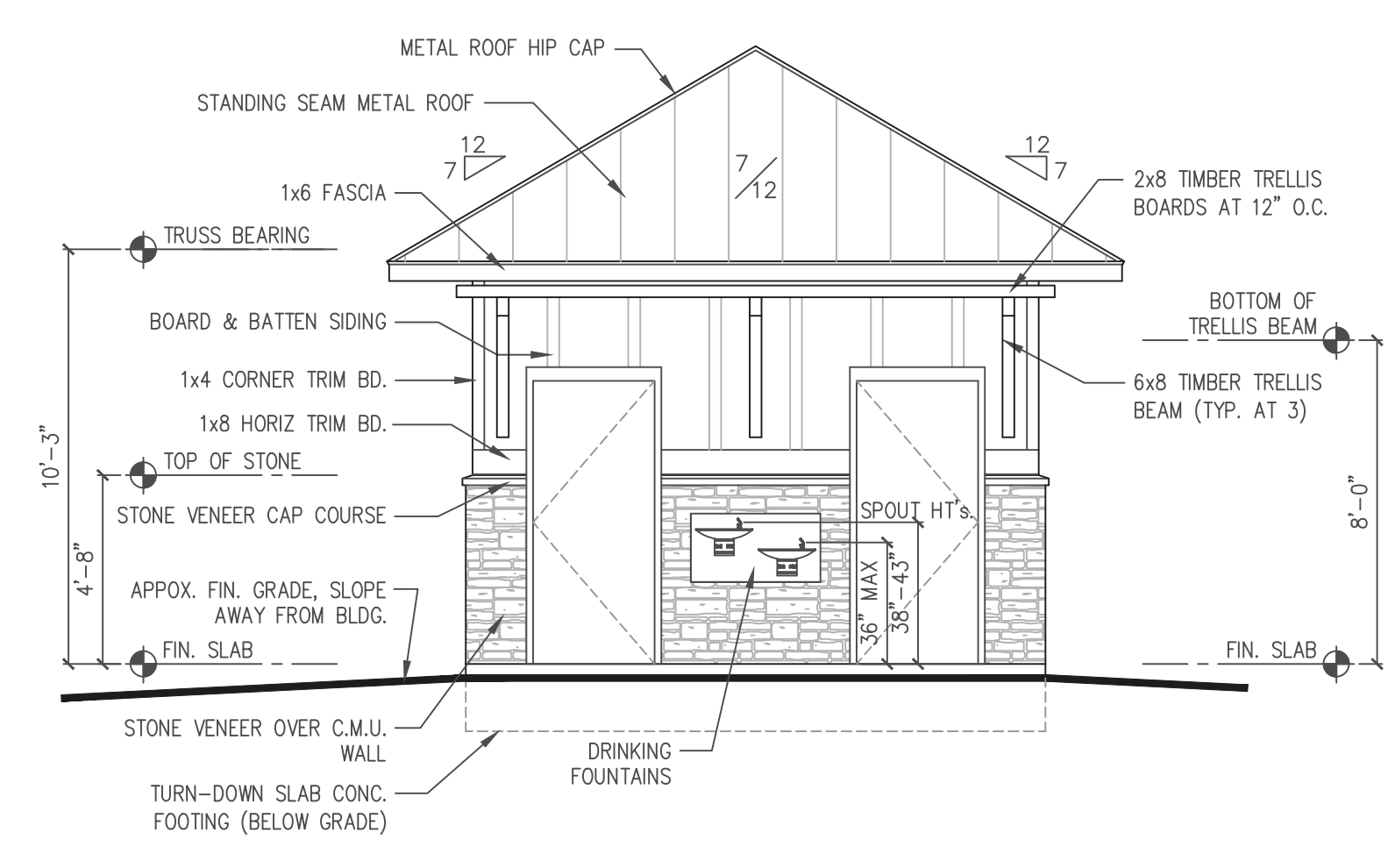
SHEET NUMBER

**A2.1**

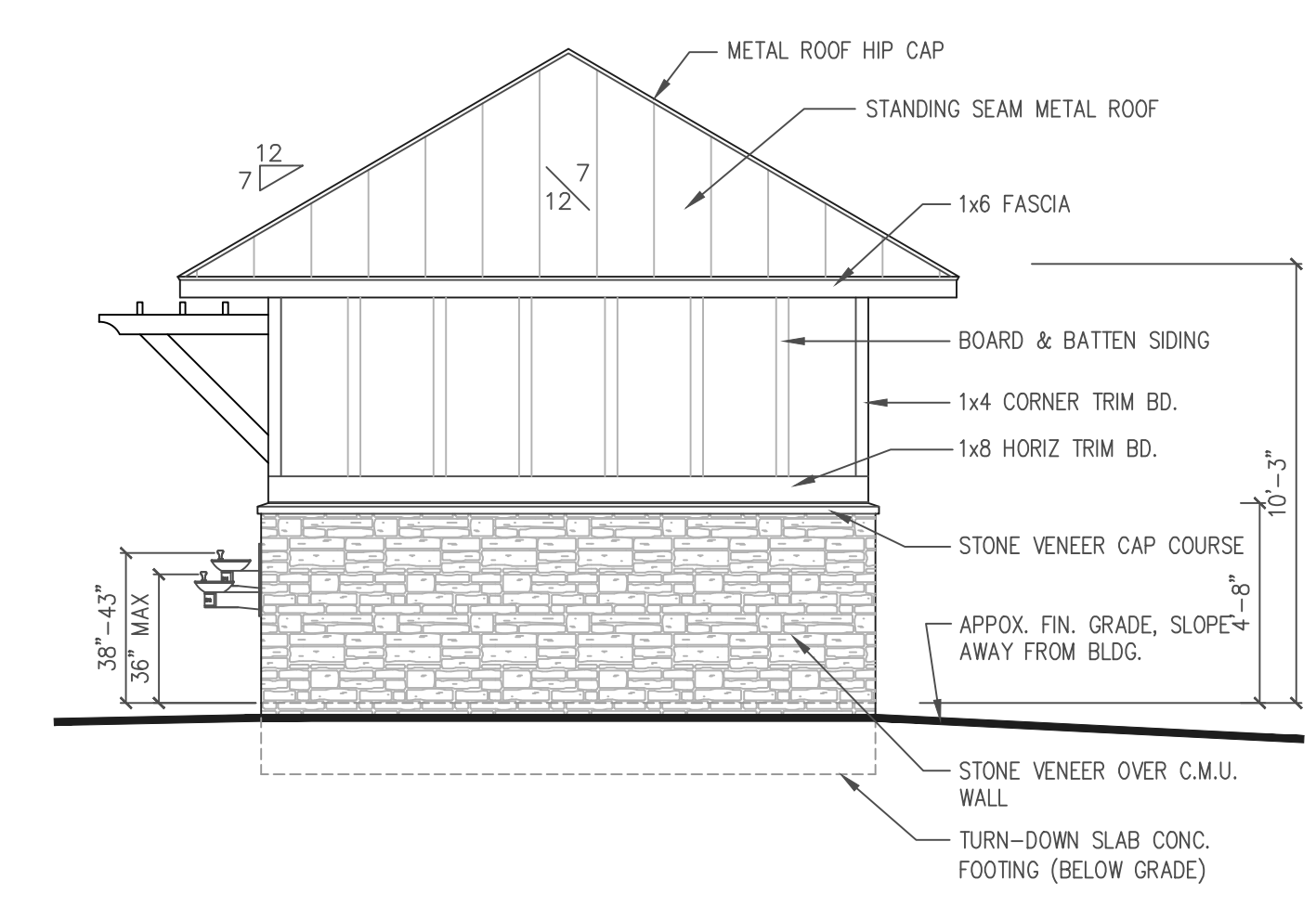
OF SHEETS

ELEVATION NOTES

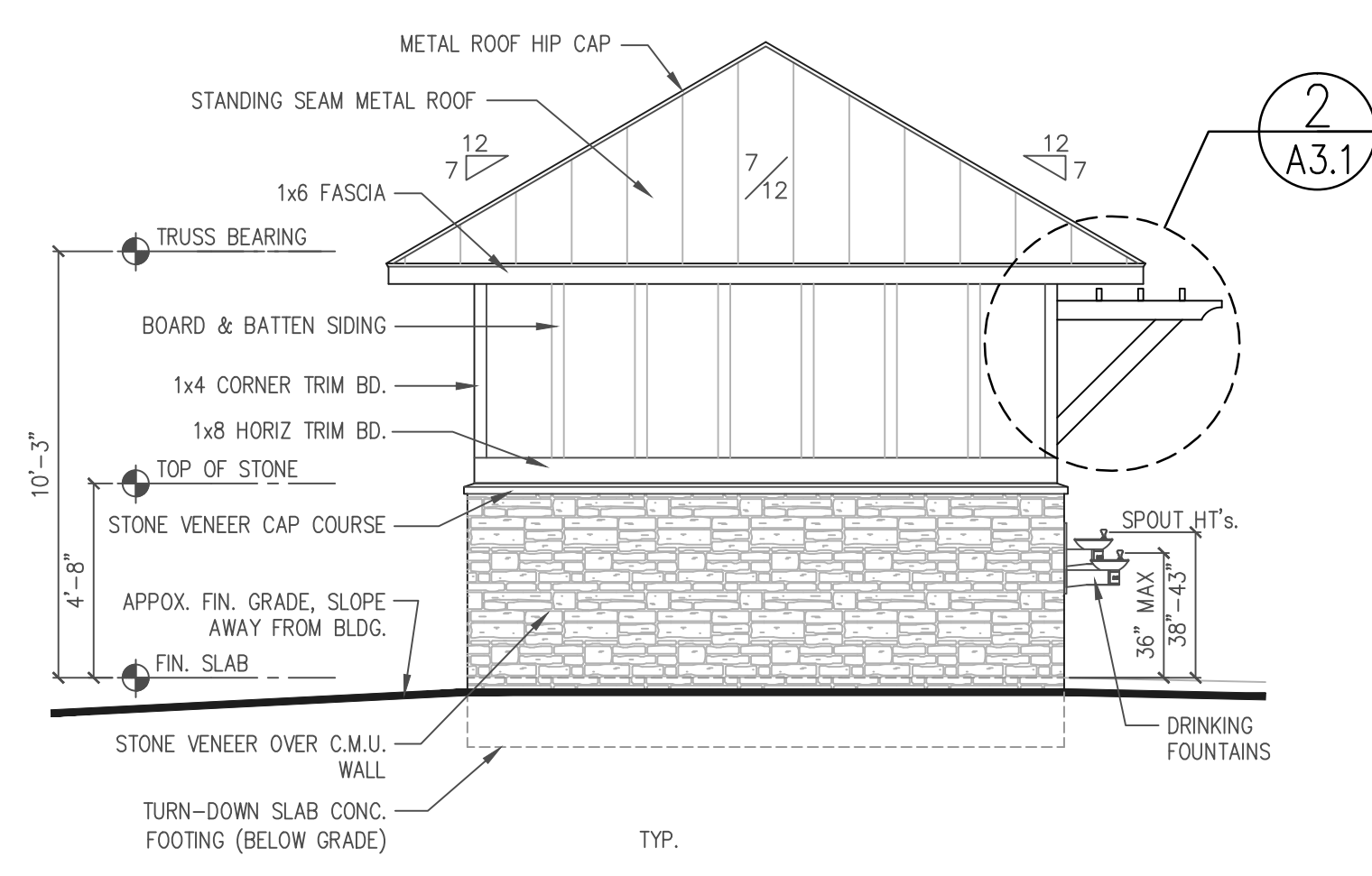
1. ALL SIDING TO BE FIBER CEMENT, HARDIE PLANK OR EQUAL. 3 1/2" BATTENS AT 24" O.C.
2. ALL FASCIA AND TRIM BOARDS TO BE FIBER CEMENT, HARDIE PLANK OR EQUAL IN NOMINAL SIZES INDICATED.
3. ALL SOFFITS TO BE FIBER CEMENT PANELS, HARDIE PLANK OR EQUAL WITH CONT. 2" WIDE SOFFIT VENT.
4. PROVIDE CONCRETE SPLASH BLOCK AT EACH DOWNSPOUT LOCATION.



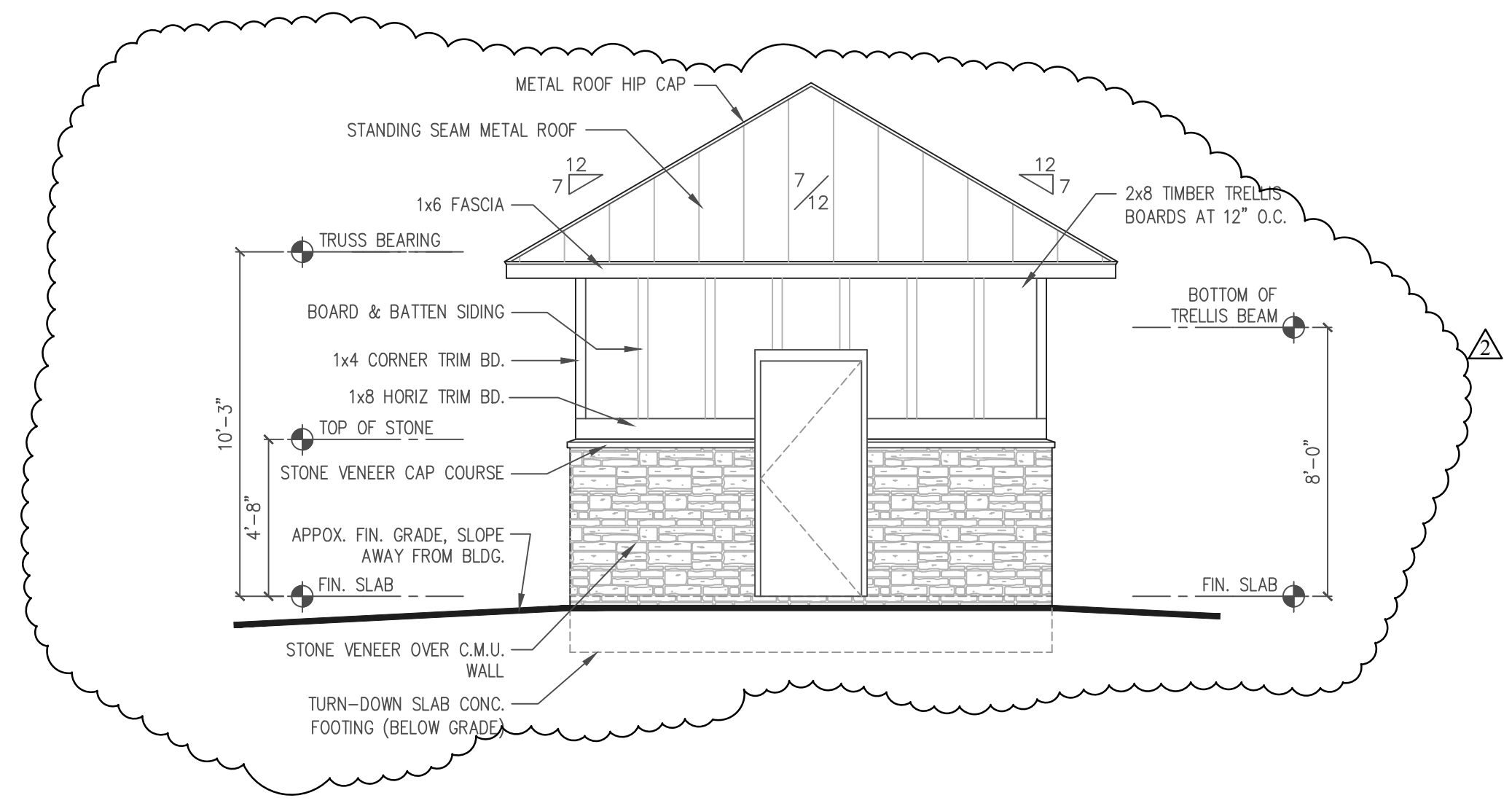
1 RESTROOM FRONT ELEV.  
 A2.1 1/4" = 1'-0"



2 RESTROOM RIGHT ELEV  
 A2.1 1/4" = 1'-0"

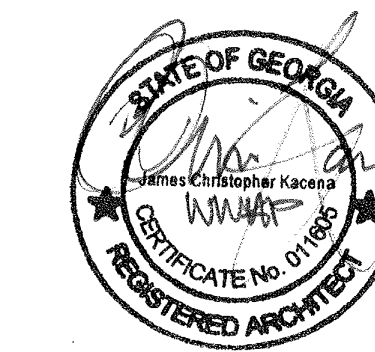


3 RESTROOM LEFT ELEV  
 A2.1 1/4" = 1'-0"



4 RESTROOM REAR ELEV  
 A2.1 1/4" = 1'-0"

SEAL



LOCATION

WINDWOOD HOLLOW PARK  
RESTROOM ADDITION  
4865 LAKESIDE DRIVE  
DUNWOODY, GA 30360

SHEET TITLE

SECTIONS/  
DETAILS

DRAWN:

CHECKED:

SCALE:

DATE PRINTED

3/28/2018

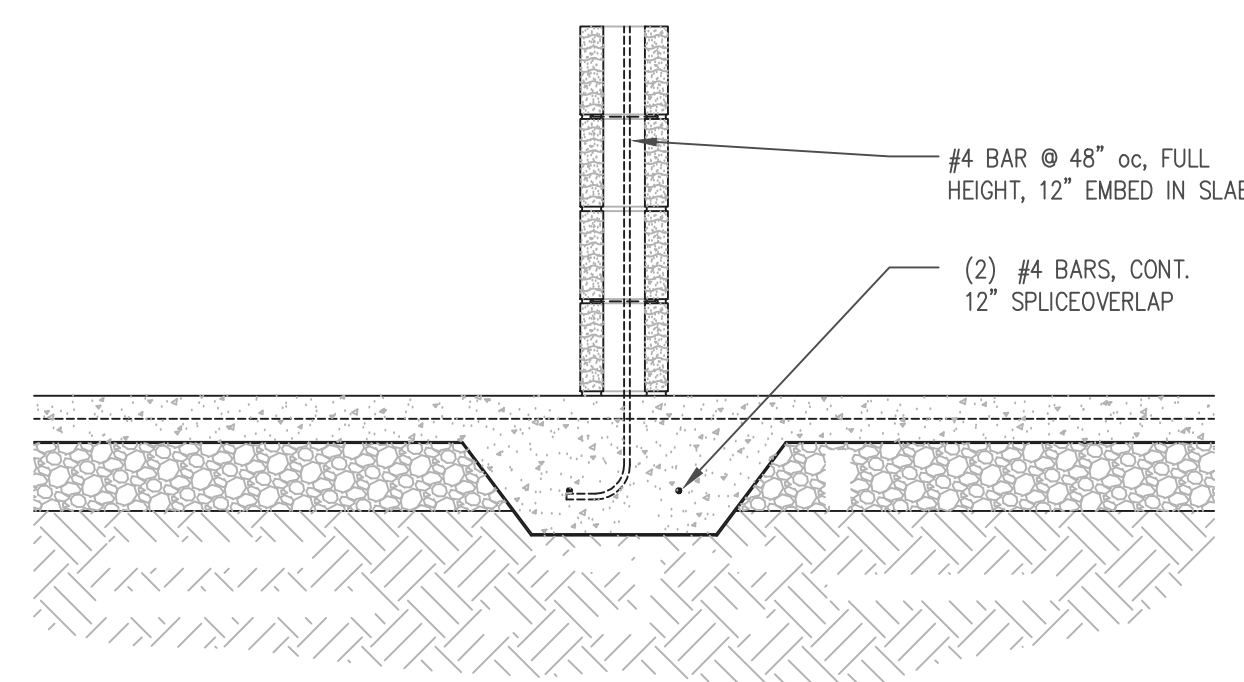
REV. DATE REMARKS

2 2 07/18/18 PERMIT COMMENTS

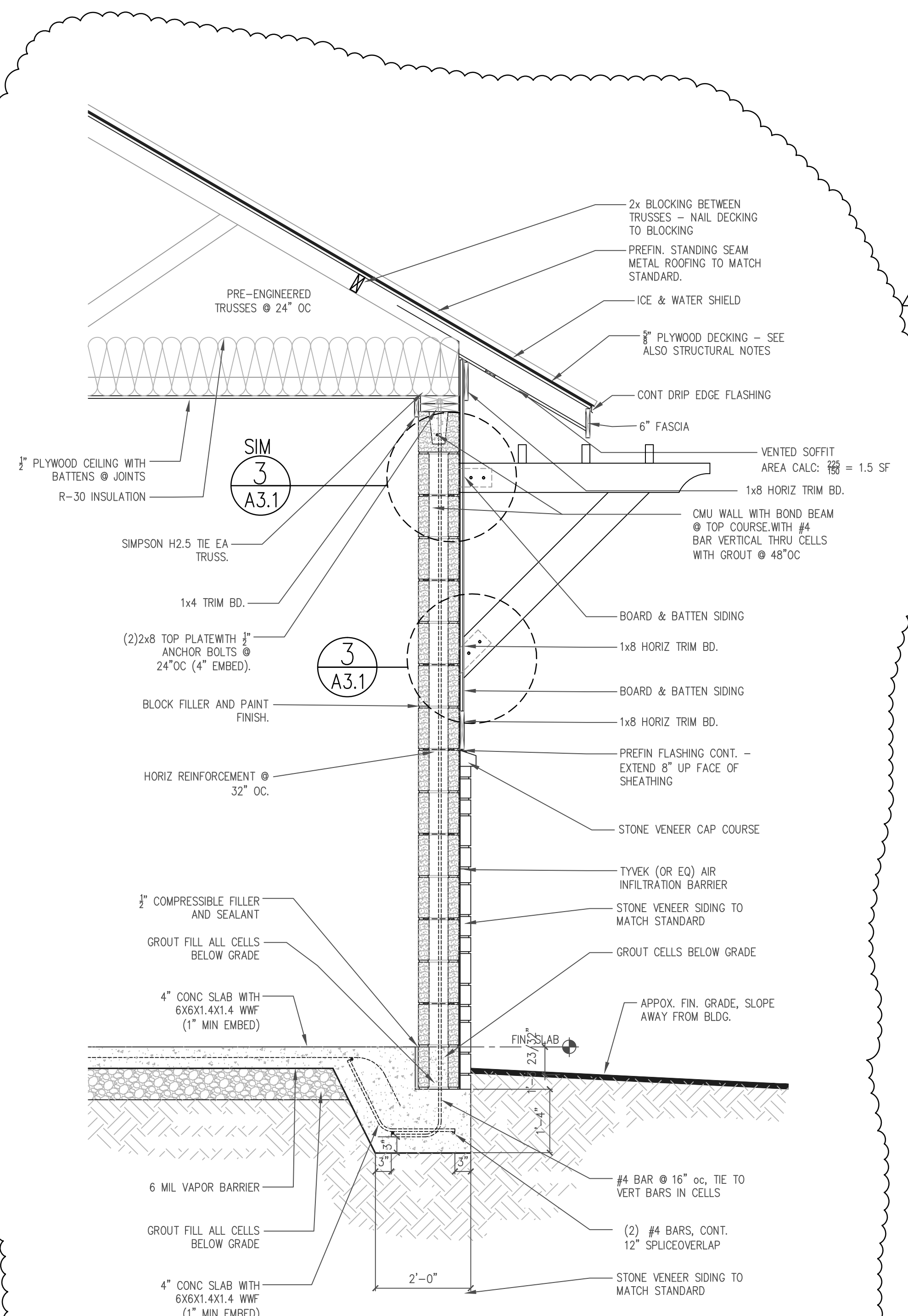
SHEET NUMBER

A3.1

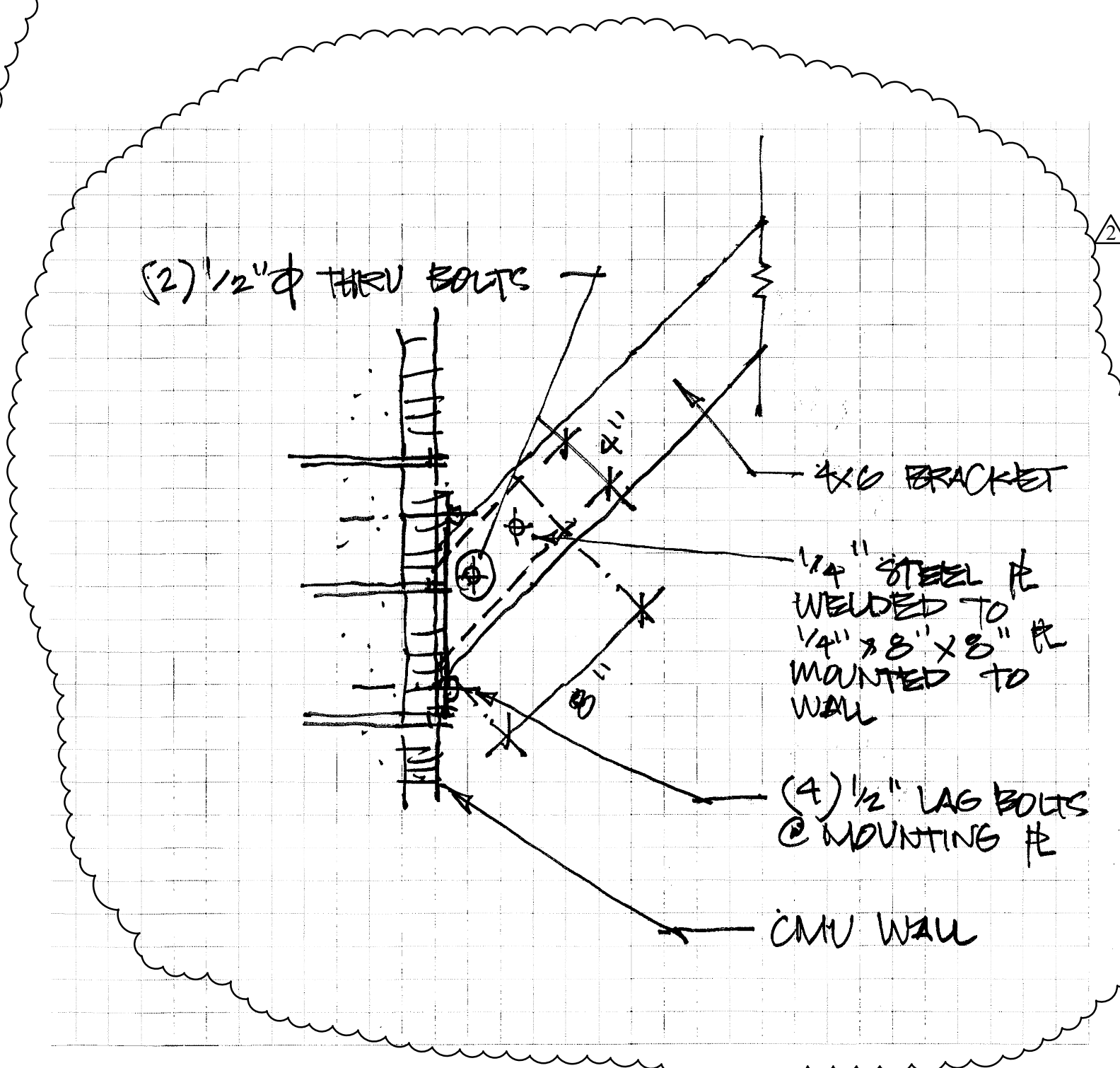
OF SHEETS



1 THICKENED SLAB DETAIL  
A3.1 3/4" = 1'-0"



2 TYPICAL WALL SECTION  
A3.1 3/4" = 1'-0"



3 BRACKET DETAIL  
A3.1 1 1/2" = 1'-0"



**SECTION 07 00 00**

**THERMAL AND MOISTURE PROTECTION**

**PART 1 - GENERAL**

- 1.1 Scope of work includes furnishing all labor, materials, and equipment required for the installation of all thermal and moisture protection products and materials.
- 1.2 Coordinate installation of all products to provide each structure with a sufficient protection system against the elements. Proper coordination between systems is critical to overall performance.
- 1.3 Provide shop drawings and submittals to ensure the products and materials meet the required quality standards associated with each product.
- 1.4 Deliver and storage all products and materials according to industry standards or the manufacturers' recommendations.

**PART 2 - PRODUCTS**

- 2.1 Siding and Trim- All siding materials shall be fiber reinforced cementitious products, equal to or better than the following:
  - A. Panel Board Siding- James Hardie Panel Vertical (4' x 8', smooth)
  - B. Trim- James Hardie Artisan Accent Trim (4" and 6")
  - C. Soffits- James Hardie Soffit Panel (smooth, vented)
- 2.2 Metal Roofing- Provide metal roofing and accessories as described in the drawings. The products shall be equal to or better than Berridge (or approved equal) pre-finished sheet metal roofing, 24 gage, "Tee Panel". Provide all fasteners, flashing, sealants, and accessories as required by the manufacturer. Provide underlayment where applicable. Roof installation at the pavilions shall be exposed.
- 2.3 Flashing and Sheet Metal- Provide flashing and sheet metal conforming to ASTM A525-86, minimum 26 gage, commercial class galvanized steel with zinc coating. Paint exposed flashing to match adjacent material.
- 2.4 Gutters and Downspouts- Provide factory paint aluminum gutters and downspouts in shapes and sizes as indicated on the drawings. Products shall conform to ASTM B209, 3003-H4 alloy. Install per manufacturer's recommendations, and coordinate with the storm drainage system.
- 2.5 Vapor Barrier- Provide minimum 6 mil thickness sheet polyethylene with joint tape. Install vapor barrier beneath all interior concrete slabs on a properly prepared surface. Tape lap joints as required.
- 2.6 Caulking and Sealants- Provide silicon sealant #790 (or approved equal) by Dow Windwood Hollow Park Thermal and Moisture Protection 019124002

**SECTION 08 00 00**

**OPENINGS**

**PART 1 - GENERAL**

- 1.1 Scope of work includes furnishing all labor, materials, and equipment required for the installation of all doors and frames as described in the drawings. This includes fabrication and erection.
- 1.2 Provide shop drawings and steel reports to ensure the materials meet the required quality standards associated with each product.
- 1.3 Comply with the manufacturer's requirements for the delivery, storage, and handling of all products

**PART 2 - PRODUCTS**

- 2.1 Metal Doors- Provide metal doors in accordance with SDI-100-85 and ANSI 151.1. Doors shall be minimum 18 gage (interior), 16 gage (exterior) steel face sheets with standard core. All surfaces to be shop primed
- 2.2 Metal Frames- Provide frames in accordance with SDI-100-85 and ANSI 151.1. Frames shall be minimum 16 gage steel in sizes and styles as shown on the drawings. Weld joints and grind surfaces smooth prior to painting. Prepare frames to receive hardware, including 3 anchors per jamb at hinge and latch points. Grot frame cavities.
- 2.3 Hardware- Provide hardware sets for all doors to include the following:
  - A. Set 1 (exterior):
    - Hinges (3)
    - Closer
    - Push/Pull Handles
    - Kickplates (2)
    - Door Bumper Guard (wall mounted)
    - Deadbolt\*
    - (\*Key Cylinder provided by Owner)
  - B. Set 2 (interior):
    - 3 Hinges
    - Passage Set
    - Strike Plates
    - Deadbolt\*
    - (\*Key Cylinder provided by Owner)

Acceptable Manufacturers include: Schlage, Hager, LCN, National Guard, Glynn-

Windwood Hollow Park Openings  
019124002 08 00 00

**SECTION 09 00 00**

**FINISHES**

**PART 1 - GENERAL**

- 1.1 Scope of work includes furnishing all labor, materials, and equipment required for the installation of all finishes. Comply with each manufacturers' requirements regarding the delivery, storage, handling, and installation of each respective product or material.
- 1.2 Coordinate installation of all products to minimize exposure of finishes to damage.
- 1.3 Provide shop drawings and/or product data to ensure the materials meet the required quality standards associated with each product.

**PART 2 - PRODUCTS**

- 2.1 Gypsum Board- Provide gypsum board conforming to ASTM C36-85 in thicknesses as shown on the drawings with tapered edges. Provide moisture resistant board (if required) at wall surfaces, and cement board (or equal) at ceilings. Fasten with screws (ASTM C645) that meet the manufacturer's requirements. All joints to be taped and mudded.
- 2.2 Traffic Coating- Provide a liquid applied, single component, moisture cured traffic coating system at all interior concrete slabs. Product to be determined.
- 2.3 Paints and Coatings- Provide paints or stains for finish surfaces in the following applications:
  - A. CMU Walls- Block filler and block paint
  - B. Gypsum ceilings- Prime and finish paint
  - C. Doors and Frames- Prime and finish paint
  - D. Exterior Siding and Trim- Prime and finish paint
  - E. Timber Framing- Wood Stain
  - F. Exterior Metal Hardware- Prim and finish paint

Acceptable manufacturers include: Sherwin-Williams, Duron, and PPG. Appropriate paint systems shall be selected for each material application listed above. Two finish coats shall be applied in all conditions.

**PART 3 - EXECUTION**

- 3.1 Gypsum Board- Ensure that the project conditions meet the manufacturer's

Windwood Hollow Park Finishes  
019124002 09 00 00

**SECTION 10 00 00**

**SPECIALTIES**

**PART 1 - GENERAL**

- 1.1 Scope of work includes furnishing all labor, materials, and equipment required for the installation of various systems, devices, and equipment as described in the drawings.
- 1.2 All specialties shall be delivered, stored, handled, and installed in strict accordance with the manufacturer's requirements. All installations must also meet governing code requirements.
- 1.3 Provide shop drawings and product data to ensure the materials meet the required quality standards associated with each product.

**PART 2 - PRODUCTS**

- 2.1 Toilet Accessories- Refer to the drawings for description and location of all toilet accessories. In general, the following accessories (or an approved equal) shall be provided:
  - A. Mirror Bobrick B-165
  - B. Soap Dispenser Provided by Owner, installed by Contractor
  - C. Hand Dryer Provided by Owner, installed by Contractor
  - D. Grab Bars 36" and 42" stainless as indicated
  - E. Toilet Paper Disp. Bobrick B-274
  - F. Coat Hook Bobrick B-211
  - G. Changing Stn. Bobrick KB200-00
  - H. Sanitary Napkin Disp. Bobrick B2706 50 and B270
- 2.2 Toilet Partitions- Provide wall and floor mounted toilet partitions as indicated in the drawings. The partition system shall be one of the following:
  - A. Bobrick 1082 series phenolic panels with aluminum frames
  - B. Bobrick 1092 series solid surface panels with aluminum frames
- 2.3 Signage- Provide identification signage for all enclosed rooms. Sign panels shall be code compliant, acrylic or PVC, with raised letters and symbols.
- 2.4 Access Panels- Provide steel plumbing access apanel as indicated in the drawings. Typical access panel shall be Aducor UF-5000 (12"x16") or an approved equal. Coordinate installation with CMU coursing.

Windwood Hollow Park Specialties  
019124002 10 00 00

**PART 3 - EXECUTION**

- 3.1 Ensure that the project conditions meet the manufacturer's requirements prior to installation of any accessories. Remediate any unacceptable conditions prior to installation of any accessories.
- 3.2 Install all accessories securely to walls or surfaces as indicated. All installations shall comply with code and accessibility requirements. Provide and install all wall reinforcing and blocking as required prior to accessory installation.
- 3.3 Install toilet partition systems in strict accordance with the drawings and the manufacturer's standard requirements.
- 3.4 Install signage at door and wall surfaces as indicated in the drawings. Sign locations shall comply with code and accessibility requirements
- 3.5 Coordinate the installation of plumbing access panels with CMU coursing and plumbing fixture locations. Provide any locking devices to the Owner along with door hardware sets.
- 3.6 Clean and repair all installations and adjacent work as required.

END OF SECTION

END OF SECTION

END OF SECTION

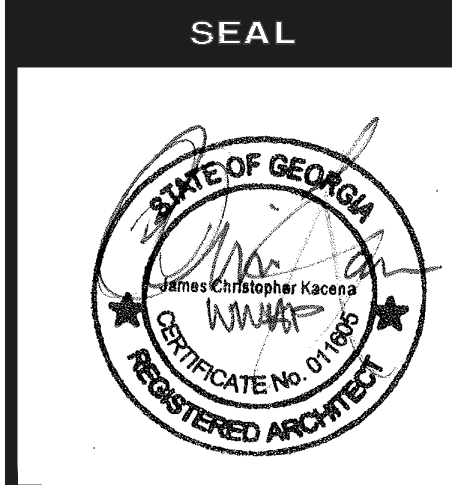
Windwood Hollow Park Thermal and Moisture Protection  
019124002 07 00 00

Windwood Hollow Park Openings  
019124002 08 00 00

Windwood Hollow Park Finishes  
019124002 09 00 00

Windwood Hollow Park Specialties  
019124002 10 00 00

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**WINDWOOD HOLLOW PARK  
RESTROOM ADDITION**  
4865 LAKESIDE DRIVE  
DUNWOODY, GA 30360

**SHEET TITLE**

**SPECS**

DRAWN: \_\_\_\_\_  
CHECKED: \_\_\_\_\_  
SCALE: \_\_\_\_\_

**DATE PRINTED**  
3/28/2018

REV	DATE	REMARKS
2	07/18/18	PERMIT COMMENTS

**SHEET NUMBER**  
**A4.2**  
OF SHEETS

**GENERAL NOTES:**

- DRAWINGS ARE DIAGRAMMATIC IN NATURE AND MAY NOT SHOW ALL STRUCTURAL MEMBERS, ARCHITECTURAL ELEMENTS, LIGHTING LAYOUTS, OR ALL OFFSETS, FITTINGS, AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND ACCESSORIES REQUIRED FOR THE INSTALLATION OF A COMPLETE WORKING SYSTEM TO THE SATISFACTION OF THE OWNER.
- COORDINATE THE MECHANICAL WORK WITH THE WORK OF OTHER TRADES AND EXISTING CONDITIONS.
- COMPLY WITH ALL APPLICABLE STATE AND LOCAL BUILDING CODES AND ORDINANCES.
- CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK AND INFORM ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
- CONNECT NEW DUCTWORK TO AIR HANDLING UNITS OR AIR MOVING EQUIPMENT IN LOCATIONS SHOWN AND IN ACCORDANCE WITH UNIT MANUFACTURER'S INSTALLATION INSTRUCTIONS. LOCATE DUCTWORK TO INSURE ADEQUATE SERVICE CLEARANCES PER MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH CODE REQUIREMENTS.
- INSTALL SPACE CONTROL THERMOSTATS FURNISHED WITH HVAC UNITS IN LOCATION SHOWN AND CONNECT TO HVAC UNIT CONTROLS. VERIFY THAT THERMOSTAT SELECTION IS COMPATIBLE WITH THE REQUIREMENTS OF THE HVAC UNIT CONTROLLERS. INTEGRAL THERMOSTATS SHALL BE UTILIZED WHERE NOTED AND ADJUSTED TO SETPOINTS AS REQUIRED.
- INSTALL NEW DUCTWORK AS SHOWN. ALL SHEET METAL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH CURRENT SMACNA DUCT CONSTRUCTION STANDARDS. DUCTWORK SHALL BE FABRICATED IN ACCORDANCE WITH REQUIREMENTS OF THE 1 IN. WG PRESSURE CLASSIFICATION.
- AFTER COMPLETION OF NEW MECHANICAL SYSTEMS INSTALLATION, ADJUST ALL THERMOSTATS, AIR HANDLING UNITS, ETC. TO ATTAIN THE PERFORMANCE VALUES SCHEDULED. TEST, ADJUST AND BALANCE ALL AIR OUTLET DEVICES TO CFM VALUES SHOWN WITHOUT CREATING OBJECTIONABLE NOISE OR DRAFTS. PRIOR TO FINAL PROJECT CLOSE-OUT, SUBMIT FOUR COPIES OF FINAL TEST AND BALANCE REPORT TO ARCHITECT AND ENGINEER FOR RECORD.



**MECHANICAL ABBREVIATIONS**

AD	ACCESS DOOR	FLEX	FLEXIBLE	PRV	PRESSURE REDUCING VALVE
ADJ	ADJUSTABLE	FLR	FLOOR	PSIA	POUNDS PER SQ. IN. ABSOLUTE
AFF	ABOVE FINISHED FLOOR	FP	FAN POWERED	PSIG	POUNDS PER SQ. IN. GAUGE
AHU	AIR HANDLING UNIT	FSD	FIRE/SMOKE DETECTOR	RA	RETURN AIR
ARCH	ARCHITECT	FT	FEET	RAG	RETURN AIR GRILLE
BTU	BRITISH THERMAL UNIT	GAL	GALLONS	RAR	RETURN AIR REGISTER
BTUH	BRITISH THERMAL UNIT / HOUR	GPM	GALLONS PER MINUTE	REFG	REFRIGERANT
CC	COOLING COIL	GR	GRILLE	RF	RELIEF FAN
CAP	CAPACITY	HD	HEAD	RH	RELATIVE HUMIDITY
CD	CONDENSATE DRAIN	HP	HORSEPOWER	RL	REFRIGERANT LIQUID
CFM	CUBIC FEET PER MINUTE	HR	HOUR	RPM	REVOLUTIONS PER MINUTE
CHW	CHILLED WATER	HWR	HOT WATER RETURN	RS	REFRIGERANT SUCTION
CHWP	CHILLED WATER PUMP	HWS	HOT WATER SUPPLY	RTU	ROOFTOP UNIT
CHR	CHILLED WATER RETURN	IHP	HEAT PUMP INDOOR UNIT	SA	SUPPLY AIR
CHS	CHILLED WATER SUPPLY	IN	INCHES	SF	SUPPLY FAN
CLG	CEILING	IRH	INFRARED HEATER	SG	SUPPLY GRILLE
CO	CLEANOUT	KEF	KITCHEN EXHAUST FAN	SP	STATIC PRESSURE (IN. W.G.)
COMP	COMPRESSOR	KSF	KITCHEN SUPPLY FAN	SQ	SQUARE
CONC	CONCRETE	KW	KILOWATT	SR	SUPPLY REGISTER
CONN	CONNECTION	LAT	LEAVING AIR TEMPERATURE	SS	STAINLESS STEEL
CONT	CONTINUATION	LBS	POUNDS	STRUCT	STRUCTURAL
CU	CONDENSING UNIT	LF	LINEAR FEET	TRANS	TRANSITION
CWP	CONDENSER WATER PUMP	LWT	LEAVING WATER TEMPERATURE	T'STAT	THERMOSTAT
CWR	CONDENSER WATER RETURN	MAX	MAXIMUM	TYP	TYPICAL
CWS	CONDENSER WATER SUPPLY	MBH	1000 BTU/HOUR	UC	UNDERCUT
D	DRAIN	MIN	MINIMUM	UH	UNIT HEATER
DB	DRY BULB	MTD	MOUNTED	UNO	UNLESS NOTED OTHERWISE
DG	DOOR GRILLE	N/A	NOT APPLICABLE	YAV	VARIABLE AIR VOLUME
DIA	DIAMETER	NC	NOISE CRITERIA	VB	VACUUM BREAKER
DIFF	DIFFUSER	N.C.	NORMALLY CLOSED	VD	VOLUME DAMPER
DN	DOWN	N.O.	NORMALLY OPEN	VEL	VELOCITY
DWGS	DRAWINGS	NO.	NUMBER OR DESIGNATION	W	WATTS
EA	EACH	NOM	NOMINAL	W/	WITH
EAT	ENTERING AIR TEMPERATURE	NPSH	NET POSITIVE SUCTION HEAD	WB	WET BULB
EF	EXHAUST FAN	OA	OUTDOOR AIR	WC	WATER COLUMN
EG	EXHAUST GRILLE	OBD	OPPOSED BLADE DAMPER	WG	WATER GAUGE
ENG	ENGINEER	OC	ON CENTER	*F	DEGREES FAHRENEIT
ER	EXHAUST REGISTER	OHP	HEAT PUMP OUTDOOR UNIT	%	PERCENT
ESP	EXTERNAL STATIC PRESSURE	OPNG	OPENING		
EWT	ENTERING WATER TEMPERATURE	PH, Ø	ELECTRICAL PHASE		
FCU	FAN COIL UNIT	PIU	POWERED INDUCTION UNIT		
FD	FIRE DAMPER				
FUR	FURNACE				

**MECHANICAL LEGEND**

NOTE: ALL SYMBOLS SHOWN ON LEGEND ARE NOT NECESSARILY USED

**SUPPLY AIR GRILLES (DUCT SIDE AND BOTTOM)**

**SUPPLY AIR DIFFUSER WITH FLEX DUCT AND BELLMOUTH SPIN-IN WITH MANUAL DAMPER**

**RETURN OR EXHAUST AIR GRILLES (DUCT SIDE AND BOTTOM)**

**RETURN AIR GRILLE (OPEN TO PLENUM)**

**RETURN OR EXHAUST AIR GRILLE (SHOWN WITH DUCT)**

**RECTANGULAR DUCT (24" WIDE BY 12" DEEP)**

**ROUND DUCT (8" DIAMETER)**

**EXISTING DUCTWORK**

**EXISTING EQUIPMENT**

**SECTION THROUGH RETURN OR EXHAUST DUCTWORK**

**SECTION THROUGH SUPPLY DUCTWORK**

**DUCT ELBOW (WITH TURNING VANES)**

**DUCT TEE (WITH DIVIDER AND TURNING VANES)**

**ROUND ELECTRONIC CONTROL DAMPER**

**AIRFLOW - SUPPLY**

**AIRFLOW - RETURN, EXHAUST OR TRANSFER**

**DUCT LINER (FOR SOUND ATTENUATION)**

**FLEXIBLE CONNECTION**

**MOTOR OPERATED DAMPER**

**FIRE SUPPRESSION DAMPER**

**FIRE DAMPER AND ACCESS DOOR**

**MANUAL VOLUME DAMPER**

**SPLITTER DAMPER**

**THERMOSTAT**

**DIFFUSER AND GRILLE DESIGNATION (DIFFUSER A, 200 CFM)**

**PIPING**

CWS COOLING WATER SUPPLY  
CWR COOLING WATER RETURN  
D DRAIN PIPE  
CA COMPRESSED AIR PIPE

**VALVES & SPECIALTIES**

FLOW INDICATOR  
SHUT-OFF VALVE  
GLOBE VALVE  
CHECK VALVE  
FLOW CONTROL VALVE W/ CHECK  
PLUG OR BALANCING SHUT-OFF VALVE  
DRAIN VALVE W/ HOSE END  
STRAINER W/ BLOW-OFF VALVE  
TEMPERATURE CONTROL VALVE, 3-WAY  
AIR VENT  
PRESSURE - TEMP. TAP  
PRESSURE GAUGE W/ PIG TAIL & COCK  
THERMOMETER  
PIPE UNION

**FIRE PROTECTION**

F FIRE PIPE  
EXISTING FIRE SPRINKLER  
EXISTING FIRE SPRINKLER TO BE RELOCATED  
NEW FIRE SPRINKLER  
EXISTING FIRE SPRINKLER TO BE REMOVED

**MISCELLANEOUS**

POINT OF DUCT CONNECTION NEW TO EXISTING  
POINT OF PIPE CONNECTION NEW TO EXISTING

**PLUMBING**

DOMESTIC COLD WATER  
DOMESTIC HOT WATER  
PLUMBING VENT PIPE  
SANITARY WASTE PIPE  
BUILDING SANITARY SEWER PIPE  
STORM DRAIN/ BUILDING STORM SEWER PIPE  
OVERFLOW STORM DRAIN PIPE  
VACUUM PIPE  
COMPRESSED AIR PIPE  
HORIZONTAL CLEANOUT  
VERTICAL CLEANOUT

**SEAL**



**LOCATION**

**WINDWOOD HOLLOW PARK  
RESTROOM ADDITION**  
4865 LAKESIDE DRIVE  
DUNWOODY, GA 30360

**SHEET TITLE**

**MECHANICAL  
LEGEND**

DRAWN: WDG  
CHECKED: BGD  
SCALE: AS NOTED

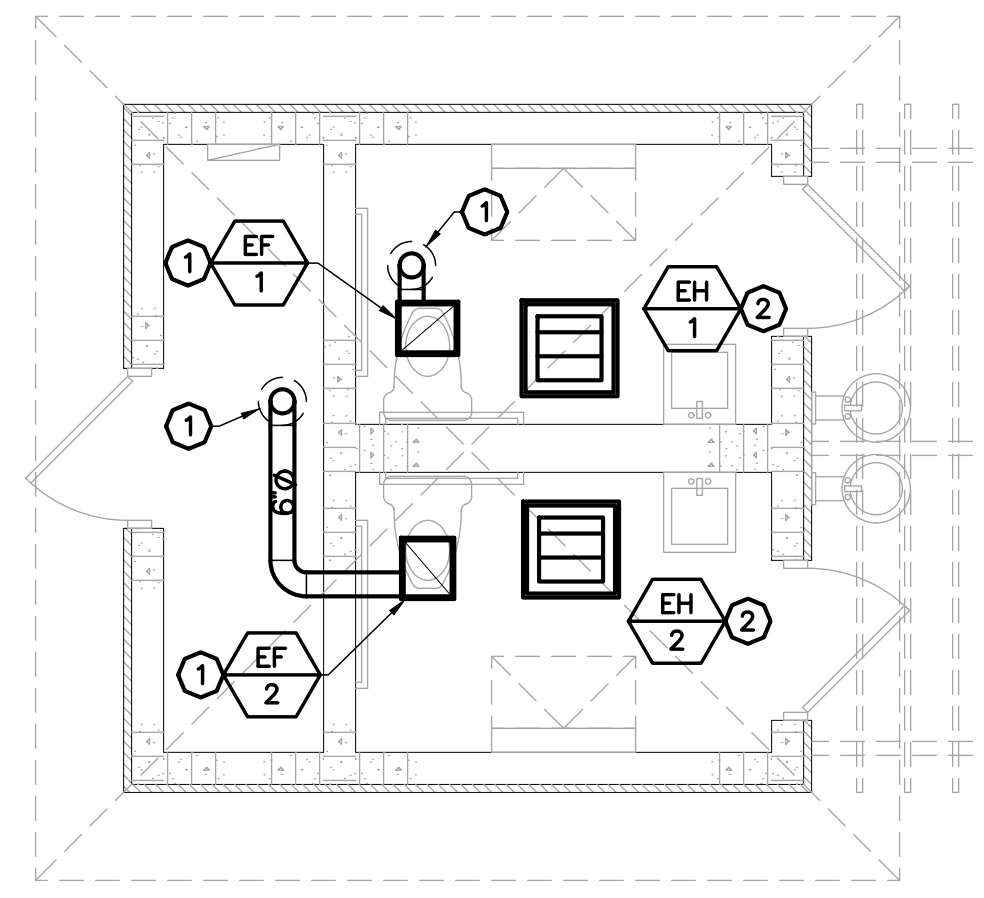
**DATE PRINTED**

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REV. DATE REMARKS  
1 07/17/18 BLDG PLAN REVIEW

**SHEET NUMBER**

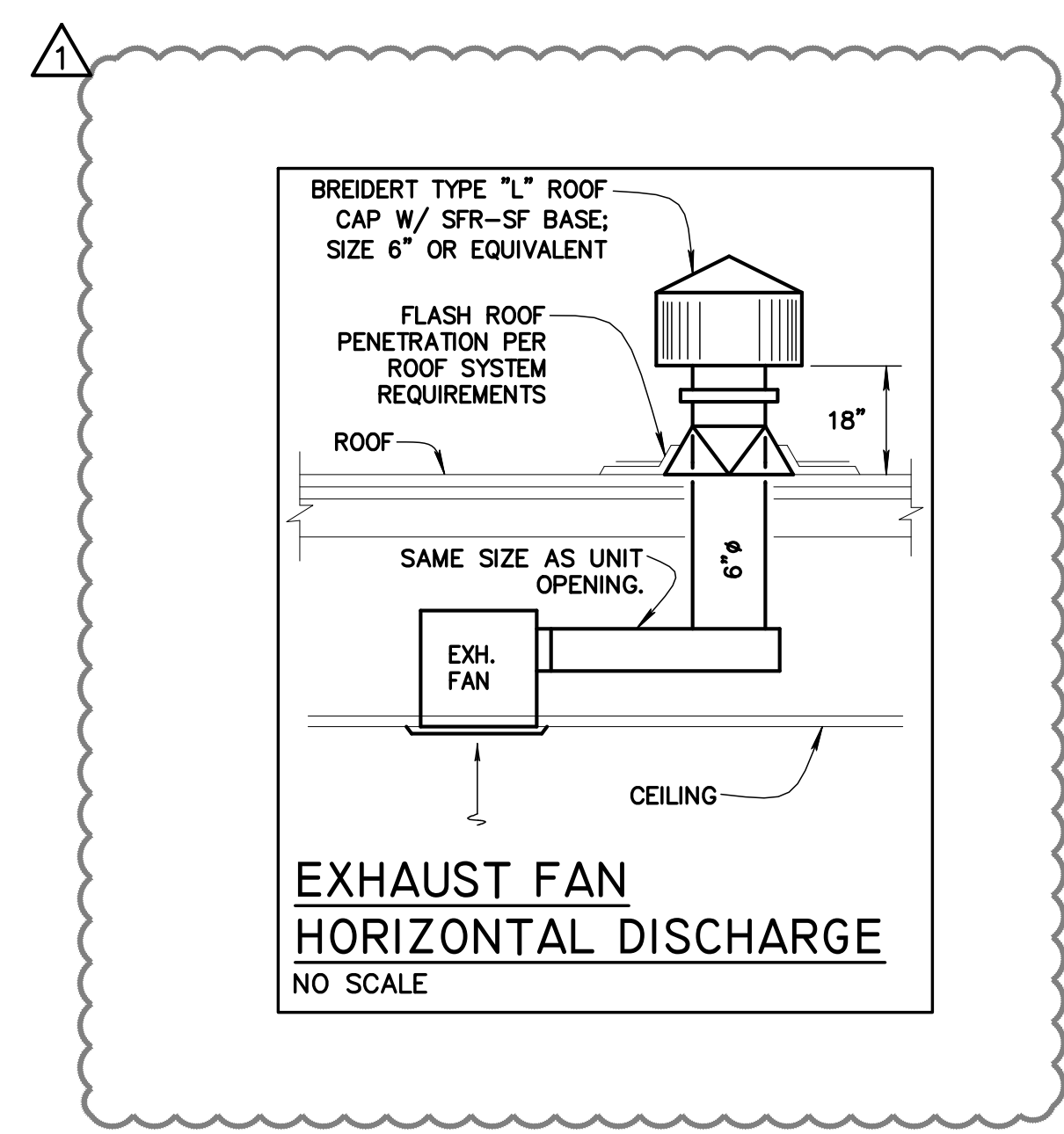
**M0.1**



**KEYNOTES**

- ① INSTALL CEILING-MOUNTED, RECESSED EXHAUST FAN IN RESTROOM WITH 6" Ø DISCHARGE UP THROUGH ATTIC SPACE TO ROOF DISCHARGE CAP - COORDINATE ROOF CAP INSTALLATION WITH BUILDING CONSTRUCTION DETAILS AND PROVIDE ROOF FLASHING AND SEALANT AS REQUIRED FOR A WEATHERPROOF INSTALLATION.
- ② INSTALL NEW ELECTRIC CEILING HEATER RECESSED INTO ATTIC AND FLUSH WITH CEILING. COORDINATE INSTALLATION LOCATION WITH TRUSS LOCATIONS AND CEILING INSTALLATION OR AS OTHERWISE DIRECTED BY ARCHITECT.

**SMALL RESTROOM BLDG  
MECHANICAL PLAN**  
M1.1 SCALE: 1/4" = 1'-0"  
4' 0' 4' 8'

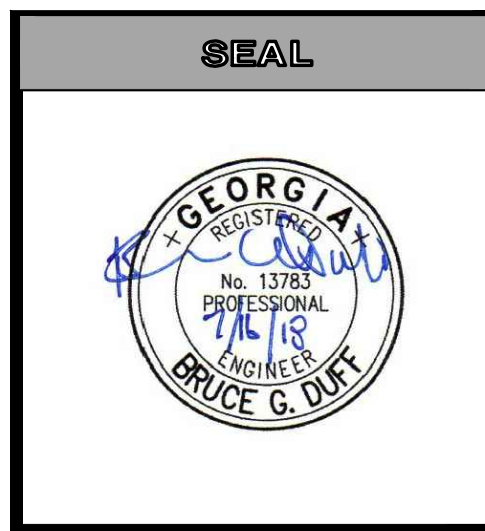


FAN SCHEDULE											
ITEM	TYPE	SERVICE	CFM	ESP IN WC	DRIVE TYPE	SONES	RPM	HP	VOLT/#	MANUFACTURER AND MODEL NUMBER	NOTES
EF-1	CEILING EXHAUST	WOMEN'S TOILET ROOM	90	0.25	DIRECT	3.0	1100	98W	115/1	COOK GEMINI GC-144	1, 2, 3
EF-2	CEILING EXHAUST	MEN'S TOILET ROOM	90	0.25	DIRECT	3.0	1100	98W	115/1	COOK GEMINI GC-144	1, 2, 3

**NOTES:**  
1. PROVIDE UNIT WITH BACKDRAFT DAMPER AND HANGING ISOLATOR KIT  
2. PROVIDE UNIT WITH ROOF CAP OR OTHER APPROVED DISCHARGE HOOD  
3. CONTROL FAN FROM WALL SWITCH

ELECTRIC HEATER SCHEDULE						
ITEM	TYPE	KW	CFM	VOLT/#	MANUFACTURER AND MODEL NUMBER	NOTES
EH-1	CEILING-MOUNTED HTR	3	425	240/1	MARKEL H3483-TA1S	1
EH-2	CEILING-MOUNTED HTR	3	425	240/1	MARKEL H3483-TA1S	1

**NOTES:**  
1. PROVIDE UNIT WITH THERMOSTAT, TRANSFORMER AND DISCONNECT SWITCH



**LOCATION**

**WINDWOOD HOLLOW PARK  
RESTROOM ADDITION**  
4865 LAKESIDE DRIVE  
DUNWOODY, GA 30360

**SHEET TITLE**  
MECHANICAL PLAN, NOTES, SCHEDULES

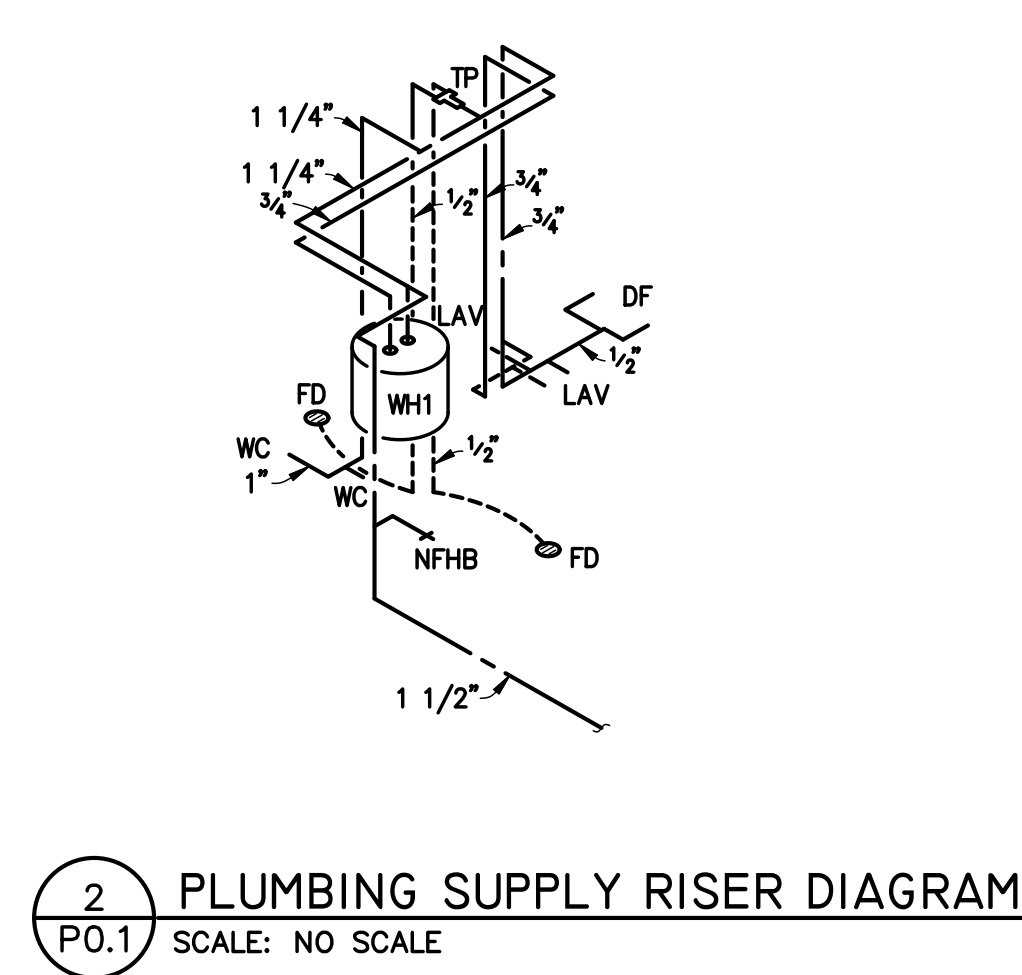
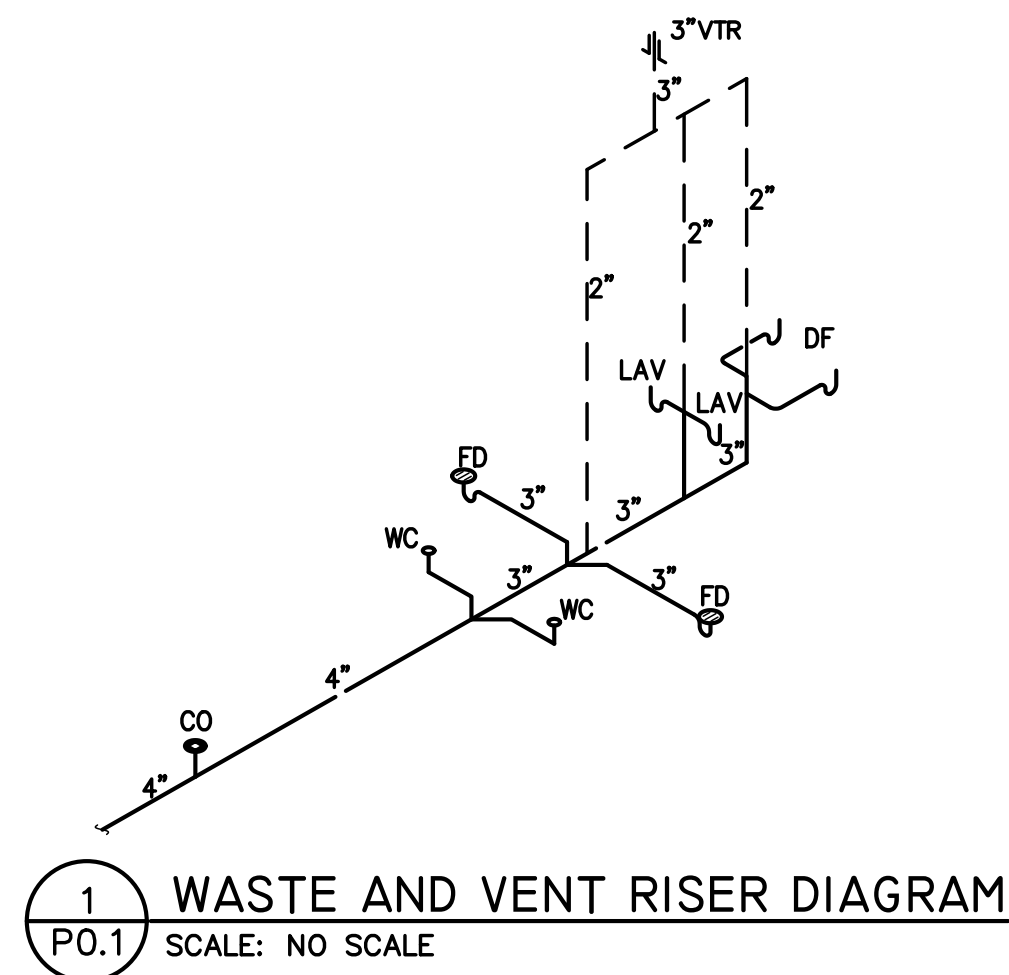
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**DATE PRINTED**  
3/23/2018

REV.	DATE	REMARKS
1	07/17/18	BLDG PLAN REVIEW

**SHEET NUMBER**  
M1.1

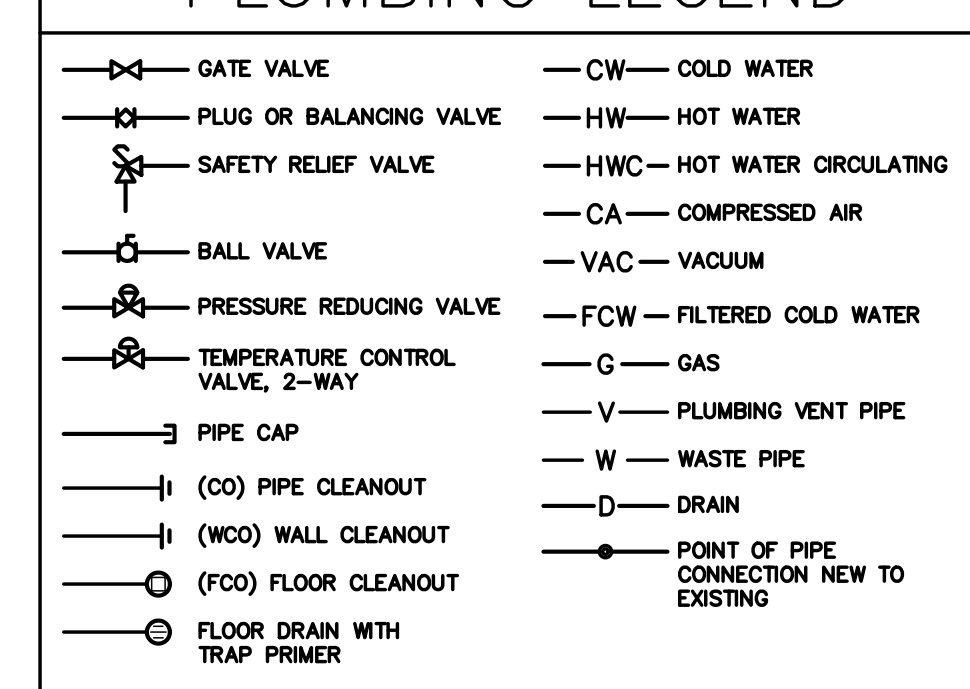
OF SHEETS



**GENERAL NOTES:**

1. PLUMBING CONTRACTOR SHALL FIELD COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL POWER REQUIREMENTS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO SUBMITTING THEIR BID. NO ADDITIONAL COMPENSATION WILL BE MADE FOR ANY EXTRAS DUE TO CONTRACTOR'S FAILURE TO VISIT THE JOBSITE AND/OR PREDETERMINE ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER FOR RESOLUTION.
3. CONTRACTOR TO VERIFY LOCATIONS OF ALL UTILITIES ON SITE.
4. CONTRACTOR IS TO PROVIDE COMPLETE CONNECTIONS TO OWNER FURNISHED EQUIPMENT.
5. CONTRACTOR TO COORDINATE THE LOCATION OF ALL CEILING DEVICES WITH REFLECTED CEILING PLAN AND STRUCTURE PRIOR TO BEGINNING WORK.
6. PLUMBING DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS. TAKE ALL DIMENSIONS FROM ARCHITECTURAL DRAWINGS, CERTIFIED EQUIPMENT DRAWINGS AND FROM THE STRUCTURE ITSELF BEFORE FABRICATING ANY WORK, VERIFY ALL SPACE REQUIREMENTS COORDINATING WITH OTHER TRADES, AND INSTALL THE SYSTEMS IN THE SPACE PROVIDED WITHOUT EXTRA CHARGES TO THE OWNER.
7. THE OWNER AND ENGINEER ARE NOT RESPONSIBLE FOR THE CONTRACTOR'S SAFETY PRECAUTIONS OR TO MEANS, METHODS, TECHNIQUES, CONSTRUCTION SEQUENCES, OR PROCEDURES REQUIRED TO PERFORM HIS WORK.
8. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE STATE CODES, LOCAL CODES AND OWNER'S STANDARDS INDICATED BY THE CONSTRUCTION DOCUMENTS.

**PLUMBING LEGEND**



NOTE: ALL SYMBOLS SHOWN ON LEGEND ARE NOT NECESSARILY USED ON THIS PROJECT.

**ABBREVIATIONS**

A/C	ABOVE CEILING	COND.	CONDENSATE
AFF	ABOVE FINISH FLOOR	CW	COLD WATER
AD	AREA DRAIN	DP	DRAIN PIPE
B/F	BELOW FLOOR	NG	NATURAL GAS
B/G	BELOW GRADE	SAN	SANITARY DRAINAGE PIPE
B/S	BELOW SLAB	GV	GATE VALVE
BV	BALANCING VALVE	VS	VENT STACK

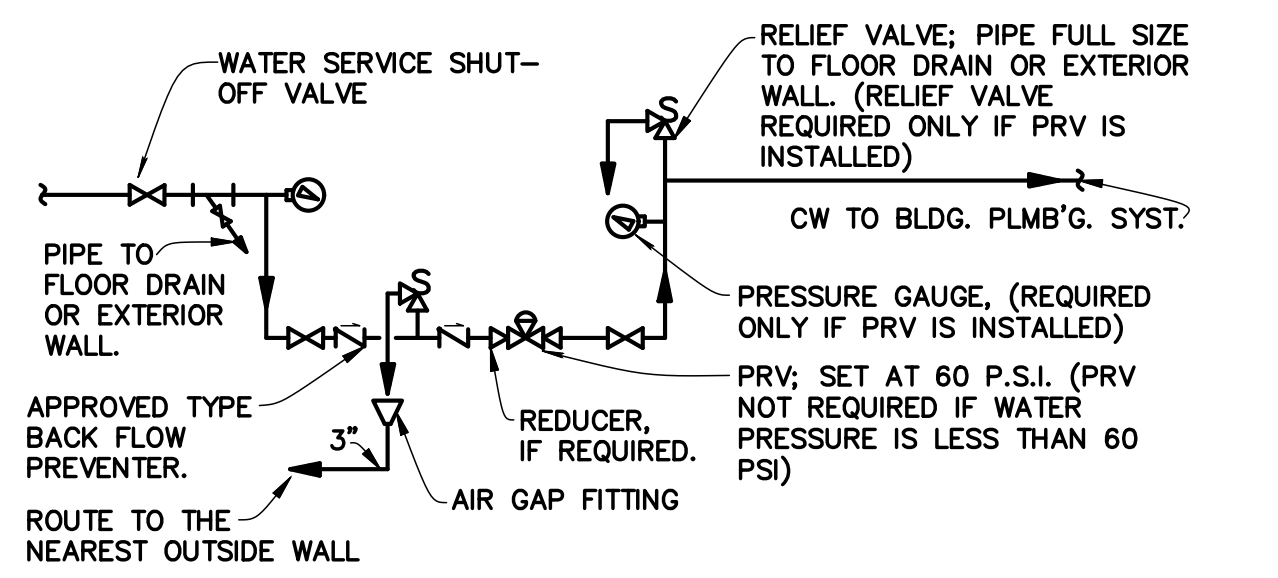
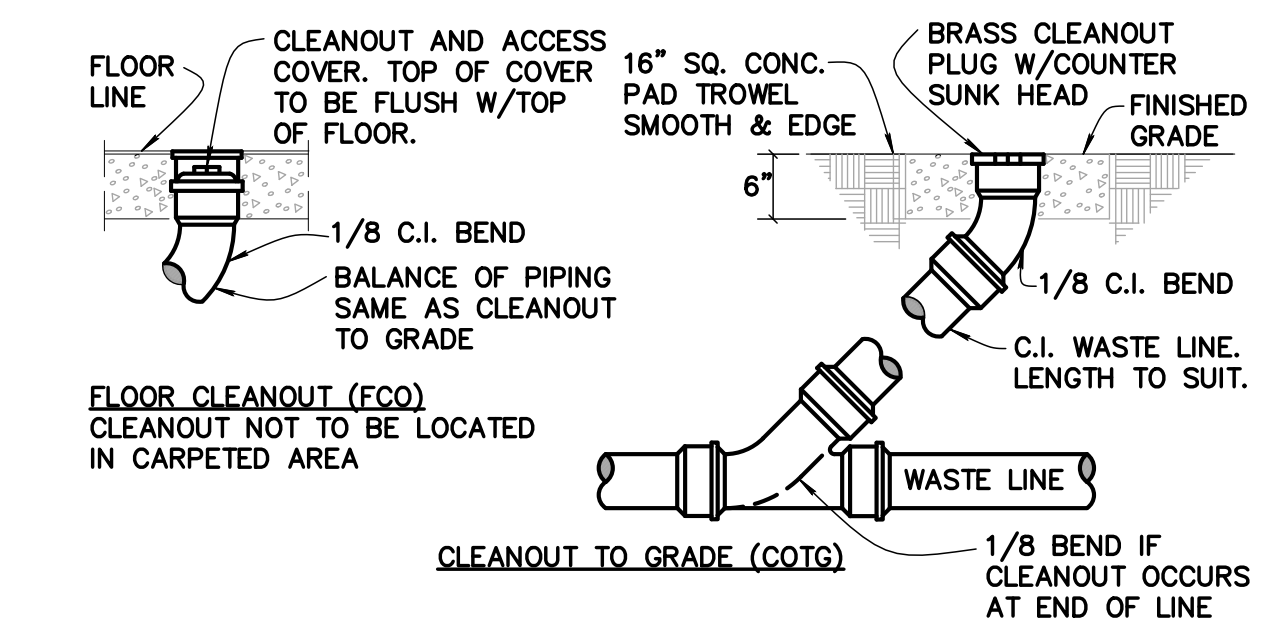
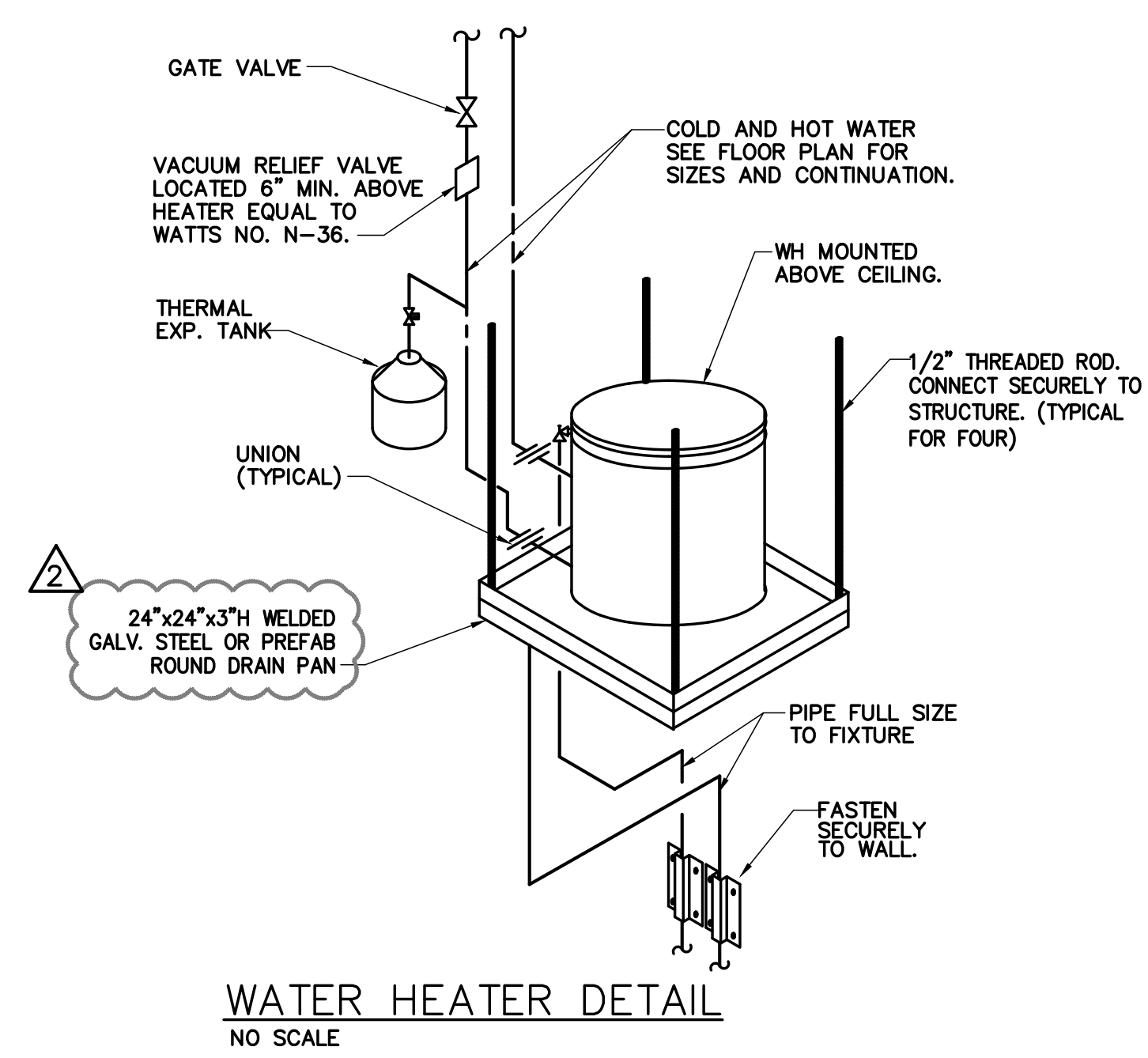
**PLUMBING SPECIFICATIONS:**

- 1.01 WATER PIPING
  - A. PIPING (INSIDE BUILDING)
    1. NON-BURIED LINES, TYPE "L" COPPER WATER TUBE, WROUGHT COPPER FITTINGS AND 96-4 (TIN/SILVER) OR CANFIELD 100% WATERSAFE (SILVER-TIN COPPER) SOLDER.
    2. VALVES AND SPECIALTIES
      - GATE VALVES: BRONZE, CLASS 125, 200 LB. W.O.G.
      - BALL VALVES: BRONZE, FULL PORT, 400 LB. W.O.G.
      - GLOBE VALVES: BRONZE, CLASS 125, 200 LB. W.O.G.
      - SWING CHECK VALVES: BRONZE, CLASS 125, 200 LB. W.O.G.
      - DIELECTRIC UNIONS: FURNISH AND INSTALL A DIELECTRIC UNION AT ALL CONNECTIONS WHERE FERROUS MATERIAL IS CONNECTED TO NON-FERROUS MATERIAL.
    3. STRAINERS: 250 LB. SEMI-STEEL OR CAST IRON "Y" TYPE W/STAINLESS STEEL SCREEN.
    4. PRESSURE TEMP. TAPS: UNIVERSAL CONTROLS CORPORATION #45-PT-N.SISCO BNO-500 1/2 NPT, NORDEL CORE.
- 1.02 WASTE AND VENT PIPING
  - A. MATERIALS; WASTE AND VENT PIPING (INSIDE BUILDING)
    1. WASTE LINES ABOVE GROUND; STD. WT., C.I. SOIL PIPE AND FITTINGS OR HUBLESS, C.I. SOIL PIPE AND FITTINGS. UP THRU 2-1/2" MAY BE STD. WTG., GALV. STEEL PIPE W/BLACK, C.I. DRAINAGE FITTINGS.
    2. VENT LINES ABOVE GROUND; STD. WT., C.I. SOIL PIPE AND FITTINGS, HUBLESS C.I. SOIL PIPE AND FITTING OR, STD. WT., GALV. STEEL PIPE W/150 LB., GALV. MALL IRON FITTINGS FOR LINES 1-1/2" AND OVER, FOR LINES 1-1/4" AND LESS, BLACK, C.I. 125 LB. SWP FITTINGS.
    3. ALL WASTE AND VENT PIPING ABOVE GRADE MAY BE DWV COPPER PIPE AND FITTINGS USING SOLDER SPECIFIED ABOVE FOR WATER PIPING.
    4. WASTE AND VENT PIPING MAY BE PVC DWV PIPE WITH SOLVENT WELD DWV FITTINGS IF ACCEPTABLE TO THE PLUMBING INSPECTION AUTHORITY. PROVIDE WRITTEN CONFIRMATION OF LOCAL AUTHORITY ACCEPTANCE PRIOR TO INSTALLING NEW WORK. PVC PIPING INSTALLATION SHALL BE PERFORMED IN STRICT CONFORMANCE WITH THE MANUFACTURER'S REQUIREMENTS FOR COUPLING PREPARATION AND INSTALLATION CONDITIONS.
- 1.03 FIXTURES AND EQUIPMENT
  - A. FIXTURES
    1. INSTALL FIXTURES AND/OR ROUGH-IN ACCORDING TO THE SPECIFICATIONS.
    2. SECURE FIXTURES TO WALLS AND FLOOR OR COUNTERTOPS IN ACCORDANCE WITH MANUFACTURER'S ROUGHING-IN AND SETTING REQUIREMENTS AND FORM A RIGID INSTALLATION.
    3. ALL PIPE AT THE FIXTURES WHICH MAY BE EXPOSED TO VIEW SHALL BE BRASS CHROME FINISH, FINISHED WITH CHROME ESCUTCHEONS WHERE THEY PROJECT FROM WALLS AND FLOORS.
    4. STOP VALVES SHALL BE FURNISHED AND INSTALLED AT ALL FIXTURES, FOR ALL EQUIPMENT AND AT ROUGH-IN LOCATIONS.
- 1.04 SPECIALTY SCHEDULE
  - A. DIELECTRIC UNIONS OR COUPLINGS AND FLANGES
    1. UNION RATED FOR 250 PSI WITH GALVANIZED OR PLATED STEEL THREADED AND, COPPER SOLDER END AND IMPERVIOUS ISOLATION GASKET APPROVED FOR USE ON GAS LINES. COUPLINGS APPROVED FOR USE ON GAS LINES AND ABLE TO WITHSTAND HYDROSTATIC TEST PRESSURES OF 1000 PSI AT 250F WITH AN INERT, NONCONDUCTIVE LAMINATE MATERIAL AND THREADED TO NPS STANDARDS. FLANGES TO BE COMPLETE WITH INSULATED BOLT SHEAVES, WASHERS AND GASKETS.

**FIXTURE UNIT SCHEDULE**

FIXTURE TYPE	MINIMUM CONNECTION SIZE			REMARKS	NOTES
	CW	HW	W		
WATER CLOSET (ADA)	1"	-	4"	18" SEAT HEIGHT	1
LAVATORY (ADA)	1/2"	1/2"	1-1/4"	-	1, 2, 3
DRINKING FOUNTAIN	1/2"	-	1-1/4"	-	1, 2, 3

NOTES:  
1. ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH A.D.A. REQUIREMENTS.  
2. SEE ARCHITECTURAL DRAWINGS FOR HEIGHT OF COUNTERTOP.  
3. MAXIMUM HOT WATER SUPPLY TEMP.=110F.



**WATER HEATER SCHEDULE**

TAG	MAKE	MODEL	TYPE	CAPACITY (GALLONS)	MIN. RECOVERY (GPH@100F)	ELECTRICAL DATA VOLT. PH. KW	DIMENSIONS DIA. HEIGHT	NOTES
WH1	A.O. SMITH	DEL-10	ELECTRIC	10	12	240 1 3	18" 18.25"	1, 2, 3

1. A.O. SMITH OR APPROVED EQUAL.
2. ELECTRICAL CHARACTERISTICS TO BE COORDINATED WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING.
3. HOT WATER THERMOSTAT SETPOINT @ 105F.

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SEAL  
THE STATE OF GEORGIA  
REGISTERED PROFESSIONAL ENGINEER  
BRUCE G. DUFF

LOCATION  
**WINDWOOD HOLLOW PARK RESTROOM ADDITION**  
4865 LAKESIDE DRIVE  
DUNWOODY, GA 30360

SHEET TITLE  
**PLUMBING LEGEND & DETAILS**

DRAWN: WDG  
CHECKED: BGD  
SCALE: AS NOTED

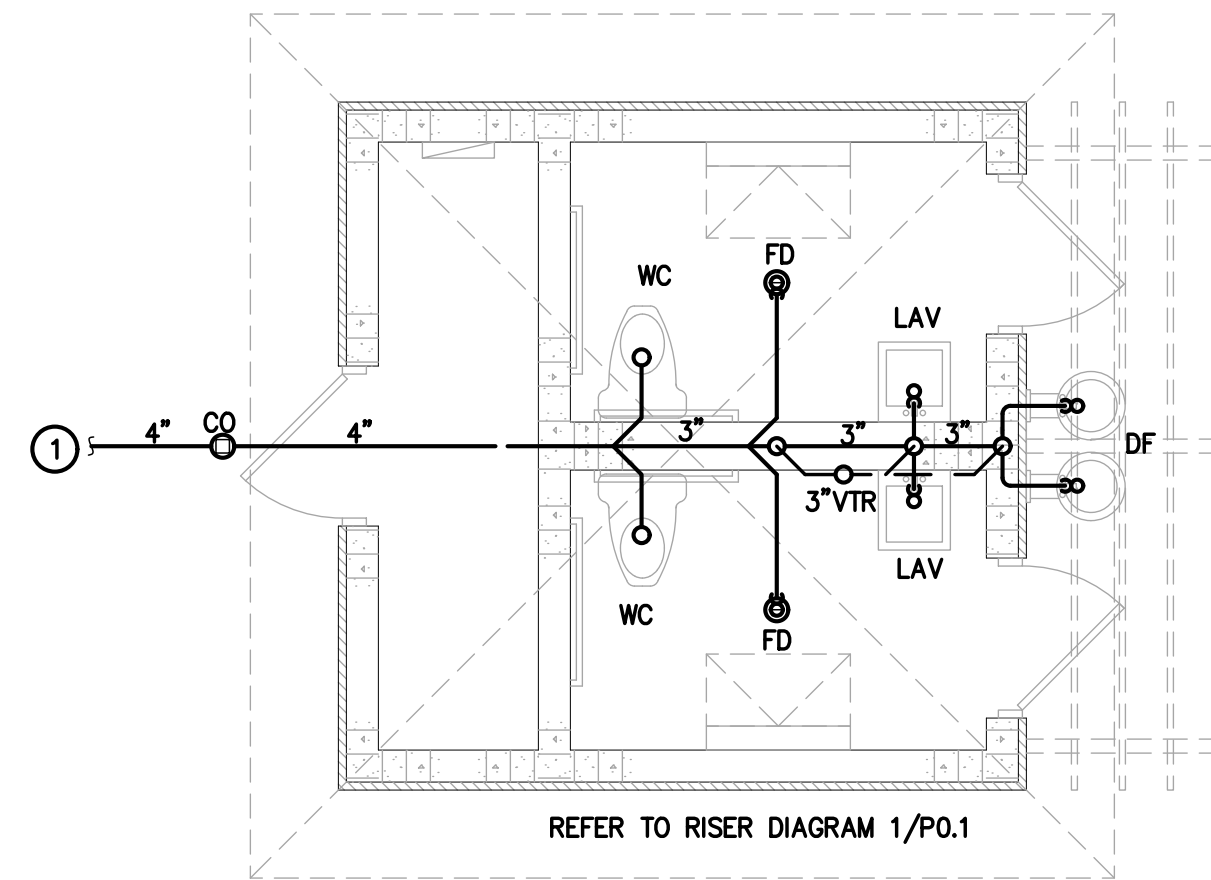
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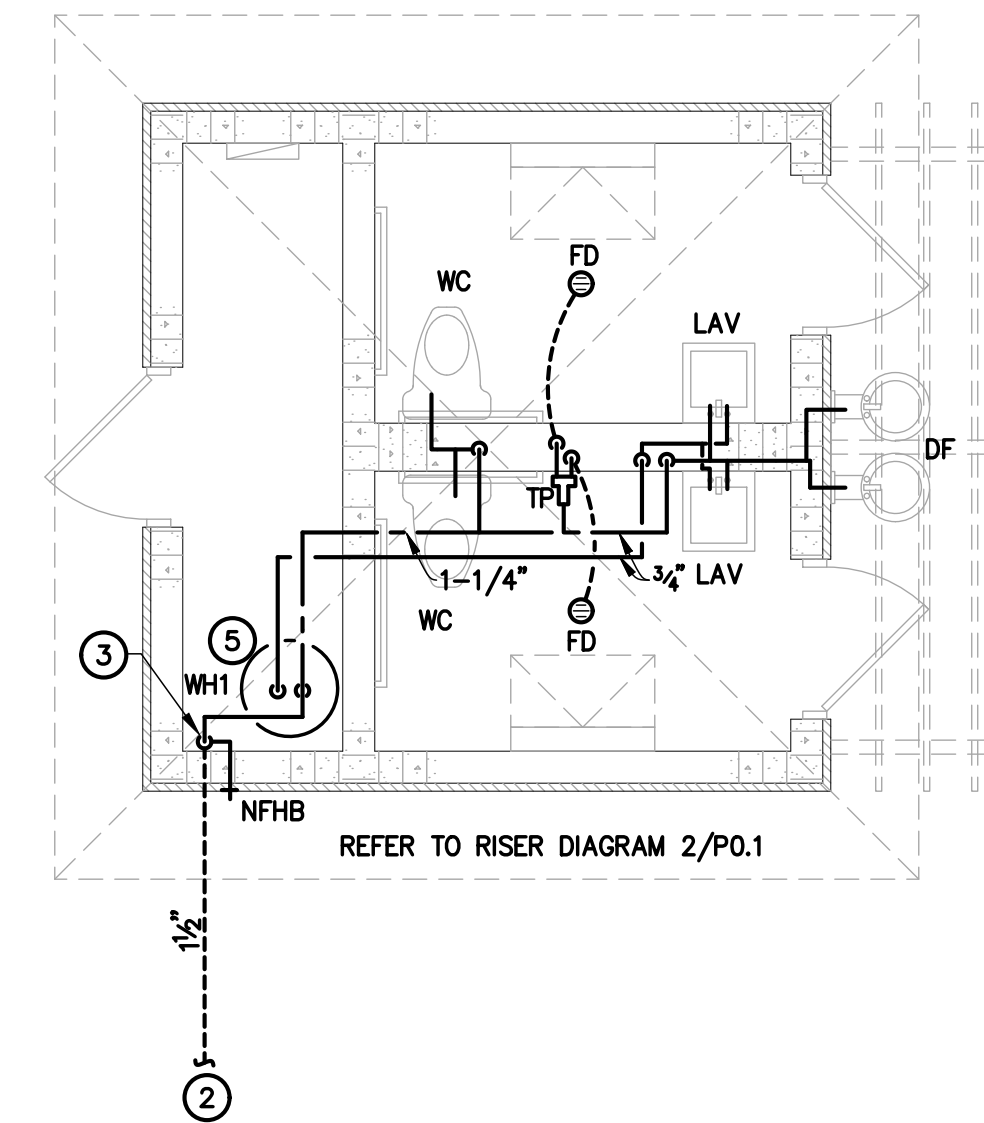
SHEET NUMBER  
**P0.1**

OF SHEETS

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1  
P1.1  
SMALL RESTROOM BLDG  
PLUMBING WASTE AND VENT PLAN  
SCALE: 1/4" = 1'-0"



2  
P1.1  
SMALL RESTROOM BLDG  
PLUMBING SUPPLY PLAN  
SCALE: 1/4" = 1'-0"

FLAG NOTES: ○

- ① COORDINATE FINAL SANITARY DRAIN LINE INVERT ELEVATIONS WITH CIVIL SITE PLANS.
- ② COORDINATE WATER SERVICE LINE WITH CIVIL SITE PLANS.
- ③ CONTRACTOR TO PROVIDE WATER ENTRY WITH SHUT-OFF VALVE AND PRESSURE REDUCING VALVE AS REQUIRED.
- ④ WATER HEATER LOCATED IN JANITORS' CLOSET, CONTRACTOR TO VERIFY PLUMBING REQUIREMENTS.
- ⑤ WATER HEATER LOCATED IN UTILITY ROOM, CONTRACTOR TO VERIFY PLUMBING REQUIREMENTS.

GENERAL NOTES:

- 1. PROVIDE SHUT-OFF VALVES ABOVE ACCESSIBLE CEILING SPACE ON ALL BRANCH LINES AND PRIOR TO DROPS BELOW FLOOR, TYPICAL.
- 2. REFER TO OTHER DRAWINGS FOR DETAILED EQUIPMENT CONNECTIONS, FIXTURE SCHEDULE, ETC.
- 3. ALL FIXTURES SHOWN SHALL BE FURNISHED UNDER THIS CONTRACT, UNLESS SPECIFICALLY NOTED OTHERWISE.
- 4. PROVIDE TRAP PRIMERS ON FLOOR DRAINS AS REQUIRED BY CODE.
- 5. COORDINATE LOCATIONS OF FIXTURES, FLOOR DRAINS, AND CLEANOUTS WITH ARCHITECTURAL FLOOR PLAN.
- 6. SEE SITE UTILITY PLAN FOR LOCATION OF WATER AND SEWER CONNECTIONS AND FOR LOCATION AND TYPE OF BACKFLOW PREVENTER.

SEAL



LOCATION

**WINDWOOD HOLLOW PARK  
RESTROOM ADDITION**  
4865 LAKESIDE DRIVE  
DUNWOODY, GA 30360

SHEET TITLE

**PLUMBING  
PLANS AND  
NOTES**

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**ELECTRICAL LEGEND**

- LIGHTING**
- DOWNLIGHT
  - WALL MOUNTED FLUORESCENT OR INCANDESCENT LUMINAIRE, AS NOTED
  - CEILING OR WALL MOUNTED HID LUMINAIRE
  - PORCELAIN KEYLESS
  - 1 X 4 FLUORESCENT LUMINAIRE
  - 2 X 4 FLUORESCENT LUMINAIRE
  - 2 X 4 FLUORESCENT LUMINAIRE
  - FLUORESCENT STRIP LUMINAIRE
  - TRACK LIGHT, AS NOTED OR SCHEDULED
  - DIRECTIONAL ACCENT OR WALL-WASH LUMINAIRE
  - PENDANT LIGHT
  - UNDER CABINET LIGHT
  - DOWN LIGHT
  - CEILING FAN SEE LUMINAIRE SCHEDULES FOR SPECIFICATIONS (LIGHT KITS)
  - CEILING OR WALL MOUNTED EXIT SIGN, INSTALL FACES AS INDICATED BY SHADING
  - EMERGENCY LIGHT AS NOTED AS NOTED
- POWER**
- STRAIGHT BLADE DUPLEX RECEPTACLE
- SUBSCRIPTS:
- HO = HOSPITAL GRADE
  - HOT = HOSPITAL GRADE TAMPER RESISTANT
  - GFI = GROUND FAULT INTERRUPTER
  - SS = SURGE SUPPRESSION
  - AC = 6" ABOVE COUNTER
- STRAIGHT BLADE DOUBLE DUPLEX RECEPT. (FOURPLEX)
  - STRAIGHT BLADE SINGLE RECEPTACLE
  - STRAIGHT BLADE DUPLEX RECEPT. HALF-SWITCHED
  - STRAIGHT BLADE DUPLEX RECEPT. ON EMERGENCY CIRCUIT
  - OUTLET WITH SPECIAL DEVICE, AS NOTED
  - WALL MOUNTED OUTLET WITH SPECIAL DEVICE, AS NOTED
  - FLOOR MOUNTED POWER BOX, AS NOTED
  - FLOOR MOUNTED COMBINATION OUTLET BOX, AS NOTED
  - POKE THROUGH, AS NOTED
  - PEDESTAL OUTLET, AS NOTED
  - JUNCTION BOX AS NOTED
  - OUTLET BOX
  - WALL MOUNTED OUTLET BOX
  - ABOVE CEILING POWER DISTRIBUTION BOX
  - SURFACE RACEWAY, AS NOTED
  - CLOCK HANGER OUTLET
  - TELE-POWER POLE
  - PULL BOX
  - CONNECTION TO MOTOR
  - MAGNETIC MOTOR STARTER
- SUBSCRIPTS:
- MS = MULTISPEED
  - SSRV = SOLID-STATE, REDUCED VOLTAGE
  - VF = VARIABLE FREQUENCY
- SAFETY DISCONNECT SWITCH
  - FUSED DISCONNECT SWITCH
  - COMBINATION DISCONNECT AND STARTER
  - ENCLOSED CIRCUIT BREAKER, MOLDED-CASE, THERMAL-MAGNETIC
- SUBSCRIPTS:
- AT = ADJUSTABLE TRIP
  - EAT = ELECTRONIC ADJUSTABLE TRIP
  - CL = CURRENT LIMITING
  - IF = INTEGRALLY FUSED
  - GFCI = GROUND FAULT CIRCUIT INTERRUPTER
  - ST = SHUNT TRIP
  - KI = KEY INTERLOCK
  - ZSI = ZONE-SELECTIVE INTERLOCKING
- CONNECTION TO PRE-WIRED EQUIPMENT BREAKER PANEL
  - MOTOR CONTROL CENTER
  - TRANSIENT VOLTAGE SURGE SUPPRESSOR
  - TRANSFORMER
  - ENGINE GENERATOR
- CIRCUITING**
- CONDUIT RUN
  - CIRCUIT HOMERUN TO PANEL OR CABINET, NO. OF ARROWS INDICATE NO. OF CIRCUITS
  - CIRCUIT TURNED UP
  - CIRCUIT TURNED DOWN
  - CONDUIT STUB-OUT - CAP & MARK
  - CIRCUIT IN FLEXIBLE CONDUIT
  - SEALOFF
- SWITCHING**
- WALL MOUNTED SWITCH
- SUBSCRIPTS:
- 2 = DOUBLE POLE
  - 3 = 3-WAY
  - 4 = 4-WAY
  - D = DIMMER
  - K = KEY-OPERATED
  - O = SWITCH MOUNTED OCCUPANCY SENSOR
  - P = PILOT LIGHT
  - T = THERMAL OVERLOAD
  - LV = LOW VOLTAGE
  - DS = DOOR SWITCH

NOTE: ALL SYMBOLS SHOWN ON LEGEND ARE NOT NECESSARILY USED.

**SCHEMATIC WIRING GRAPHICS**

- METER
  - GROUND CONNECTION AS NOTED
  - FUSED DISCONNECT SWITCH
  - FUSES
  - MAGNETIC MOTOR STARTER
- SUBSCRIPTS:
- MS = MULTISPEED
  - SSRV = SOLID-STATE, REDUCED VOLTAGE
  - VF = VARIABLE FREQUENCY
- ENCLOSED CIRCUIT BREAKER, MOLDED-CASE, THERMAL-MAGNETIC
- SUBSCRIPTS:
- AT = ADJUSTABLE TRIP
  - EAT = ELECTRONIC ADJUSTABLE TRIP
  - CL = CURRENT LIMITING
  - IF = INTEGRALLY FUSED
  - GFCI = GROUND FAULT CIRCUIT INTERRUPTER
  - ST = SHUNT TRIP
  - KI = KEY INTERLOCK
  - ZSI = ZONE-SELECTIVE INTERLOCKING
- POWER TRANSFORMER
  - CURRENT TRANSFORMER
  - AMMETER
  - VOLT METER
  - TRANSFER SWITCH
  - GROUND FAULT PROTECTION
  - GENERATOR
  - MOTOR, NUMBER INDICATES HORSEPOWER
- FIRE ALARM SYSTEM**
- FIRE ALARM CONTROL PANEL
  - FIRE ALARM GRAPHIC PANEL
  - FIRE ALARM ANNUNCIATOR PANEL
  - MANUAL PULL STATION
  - FIRE ALARM STROBE
  - GENERAL ALARM COMBINATION HORN/STROBE
  - FIRE ALARM HORN
  - CEILING OR WALL MOUNTED 120V SMOKE DETECTOR WITH BATTERY BACKUP.
  - SMOKE DETECTOR IN VENTILATING DUCT
  - FAN SHUT-DOWN CONNECTION
  - MAG. DOOR HOLDER
  - SPRINKLER SYSTEM FLOW SWITCH
  - SPRINKLER SYSTEM TAMPER SWITCH
  - FIREFIGHTERS TELEPHONE JACK
  - LIFE SAFETY SPEAKER
  - LIFE SAFETY SPEAKER WITH STROBE
  - REMOTE PILOT LIGHT
  - REMOTE PILOT LIGHT WITH TEST SWITCH
  - MONITOR MODULE
  - CONTROL MODULE
  - DAMPER CONNECTION
- COMMUNICATION SYSTEM**
- FLOOR MOUNTED TELEPHONE AND/OR DATA OUTLET BOX, AS NOTED
  - WALL MOUNTED TELEPHONE OUTLET
  - WALL MOUNTED DATA OUTLET
  - WALL MOUNTED COMBINATION TELEPHONE/DATA OUTLET BOX
  - PAY PHONE
  - TELEPHONE TERMINAL BOARD - TTB
  - CEILING OR WALL MOUNTED SPEAKER
  - VOLUME CONTROL
  - FLOOR OR WALL MOUNTED MICROPHONE OUTLET
  - CALL-IN SWITCH
  - TIME-TONE UNIT
  - CEILING OR WALL MOUNTED CLOCK
  - PROGRAM BELL
  - BUZZER
  - HOUSE PHONE/INTERCOM
  - MASTER INTERCOM STATION
  - CABLE/SATELLITE TELEVISION OUTLET
  - CLOSED CIRCUIT TV OUTLET
  - AMPLIFIER
- NOTATIONS**
- 1 - UPPER CASE LETTER AT LUMINAIRES (F1, J1, ETC.) INDICATES LUMINAIRE TYPE. (F1) = TYPE F1 LUMINAIRE IN AREA INDICATED.
  - 2 - LOWER CASE LETTER AT LUMINAIRE AND SWITCHES (a, b, ETC.) INDICATE ASSOCIATED UNITS FOR SWITCHING.
  - 3 - SHADING WITHIN LUMINAIRE DENOTES UNIT ON EMERGENCY (EM) CIRCUIT.
  - 4 - "NL" WITHIN LUMINAIRE DENOTES UNIT ON NIGHT LIGHT CIRCUIT.
  - 5 - PLUS (+) SIGN WITH DIMENSION AT OUTLET INDICATES HEIGHT ABOVE FINISHED FLOOR OR GRADE TO CENTERLINE OF OUTLET.

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**ABBREVIATIONS**

NOTE: ALL ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED.

- AC - ABOVE COUNTER
- AFC - ABOVE FINISHED CEILING
- AFF - ABOVE FINISHED FLOOR
- AFG - ABOVE FINISHED GRADE
- AIC - AMPS INTERRUPTING CURRENT
- AL - ALUMINUM
- BFG - BELOW FINISHED GRADE
- CB - CIRCUIT BREAKER
- CR - CORROSION RESISTANT
- CPT - CONTROL POWER TRANSFORMER
- CT - CURRENT TRANSFORMER
- CJ - COPPER
- ELR - END OF LINE RESISTOR
- EM - EMERGENCY
- ES - EMERGENCY STOP
- ETM - ELAPSED TIME METER
- EW - ELECTRIC WATER COOLER
- FLA - FULL LOAD AMPS
- FVNR - FULL VOLTAGE, NON-REVERSING
- FVR - FULL VOLTAGE, REVERSING
- FWE - FURNISHED WITH EQUIPMENT
- GFI - GROUND FAULT INTERRUPTER
- GRC - GALVANIZED RIGID CONDUIT
- HDA - HAND-OFF-AUTOMATIC
- HP - HORSEPOWER
- IG - ISOLATED GROUND
- LC - LIGHTING CONTACTOR
- LOR - LOCAL-OFF-REMOTE
- LS - LEVEL SWITCH
- LT - LET THROUGH
- MCA - MINIMUM CIRCUIT AMPS
- MCB - MAIN CIRCUIT BREAKER
- MCC - MOTOR CONTROL CENTER
- MCCB - MOLDED CASE CIRCUIT BREAKER
- MCP - MOTOR CIRCUIT PROTECTION
- MLO - MAIN LUGS ONLY
- NC - NORMALLY CLOSED
- NIC - NOT IN CONTRACT
- NL - NIGHT LIGHT
- NO - NORMALLY OPEN
- NTS - NOT TO SCALE
- OC - OVER CURRENT
- OL - OVERLOAD
- PT - POTENTIAL TRANSFORMER
- RWNR - REDUCED VOLTAGE, NON-REVERSING
- SC - SHORT CIRCUIT
- SR - SAFE OR STOP/RUN
- TTB - TELEPHONE TERMINAL BOARD
- UG - UNDERGROUND
- VFD - VARIABLE FREQUENCY DRIVE
- WG - WIREGUARD
- WP - WEATHERPROOF
- XPMR - TRANSFORMER
- XP - EXPLOSION PROOF
- ZS - LIMIT OR POSITION SWITCH

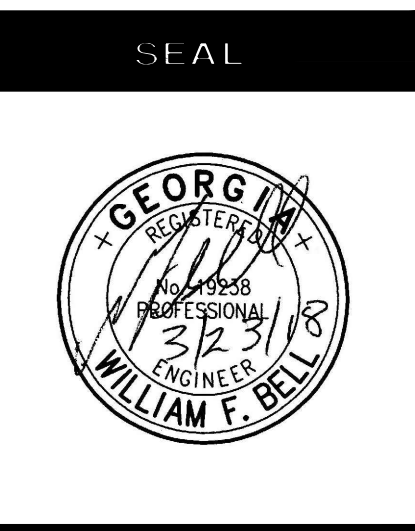
THESE DRAWINGS ARE DIAGRAMMATIC - REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS. BRANCH CIRCUITING CONVENTION - #12 AWG PER PHASE AND NEUTRAL (WHERE REQUIRED) AND 20 AMPERE CIRCUIT BREAKER, UNLESS OTHERWISE NOTED. PROVIDE QUANTITY AND SIZE SWITCH CONDUCTORS AS REQUIRED TO MAKE SYSTEM OPERATIONAL.

THESE "E" SHEETS PERTAIN TO THE BUILDING / STRUCTURE INTERIORS. SEE SITE ELECTRICAL PLANS BY OTHERS FOR SITE ELECTRICAL.

**GENERAL NOTES (FOR ALL ELECTRICAL SHEETS)**

1. COORDINATE LOCATION OF LUMINAIRE WITH ARCHITECTURAL REFLECTED CEILING PLANS.
2. PLANS DO NOT INDICATE ALL OF THE UG UTILITY LINES, RE: CIVIL DRAWINGS FOR ADDITIONAL INFORMATION. CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITY LINES OF ALL TRADES PRIOR TO ANY SITE WORK.
3. PROVIDE (1) 3/4" C. WITH PULL WIRE FROM EACH TELEPHONE, DATA OR COMMUNICATION OUTLET SHOWN, TO ABOVE ACCESSIBLE CEILING, AND CAP. WHERE CEILING IS INACCESSIBLE, ROUTE CONDUIT TO TELCO BARRACK.
4. COORDINATE EXACT EQUIPMENT LOCATIONS WITH OWNER PRIOR TO ROUGH-INS.
5. COORDINATE LOCATION OF ALL OUTLETS WITH ARCHITECTURAL ELEVATIONS, CASWORK SHOP DRAWINGS AND EQUIPMENT INSTALLATION DRAWINGS.
6. COORDINATE LOCATION OF MECHANICAL EQUIPMENT WITH MECHANICAL PLANS AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-INS.
7. ANY ITEMS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR.
8. ALL 120V BRANCH CIRCUITS SHALL BE 3-WIRE (PHASE, NEUTRAL, GROUND).
9. CONTRACTOR SHALL NOT ROUTE ANY CONDUIT WITHIN STRUCTURAL OR TOPPING SLABS OF FLOORS UNLESS NOTED TO DO SO.
10. ALL 120V, 1A, GENERAL PURPOSE RECEPTACLES SHALL BE GFCI TYPE.
12. REFER TO ARCHITECTURAL PLANS, ELEVATIONS AND DIAGRAMS FOR LOCATIONS OF FLOOR DEVICES AND WALL DEVICES. LOCATION WILL INDICATE VERTICAL AND/OR HORIZONTAL MOUNTING. IF DEVICES ARE NOT NOTED OTHERWISE THEY SHALL BE MOUNTED LONG AXIS VERTICAL AT +16" TO CENTER.
13. INFORMATION ON THE DRAWINGS HAS BEEN ASCERTAINED FROM INFORMATION PROVIDED BY OTHERS. THIS INFORMATION IS AS ACCURATE AS CONDITIONS WOULD ALLOW. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE, PRIOR TO BID, AND FAMILIARIZE HIMSELF WITH THE EXTENT OF REMODEL WORK REQUIRED. NO EXTRAS WILL BE ALLOWED FOR ALTERATIONS OF A FORESEEABLE NATURE REQUIRED TO ACHIEVE THE END RESULT AS INDICATED BY CONTRACT DOCUMENTS.
14. ALL NEW WIRING SHALL BE CONCEALED IN NEW WALLS OR ABOVE CEILINGS. SURFACE MOUNTED CONDUIT SHALL NOT BE USED IN ANY FINISHED AREAS.
15. PROVIDE GFI PROTECTED OUTLETS AS REQUIRED BY NEC AND ARC FAULT PROTECTION AS REQUIRED BY NEC.
16. AT THE TIME OF DESIGN, INFORMATION ON SHORT CIRCUIT / FAULT CURRENTS WAS NOT AVAILABLE FROM UTILITY SINCE INFRASTRUCTURE HAD NOT BEEN COMPLETED. PRIOR TO ORDERING EQUIPMENT, VERIFY WITH UTILITY TO DETERMINE SHORT CIRCUIT/FAULT CURRENT VALUES. PROVIDE EQUIPMENT SUITABLE FOR THESE VALUES. MINIMUM AIC RATING TO BE 22KAIC.
17. COORDINATE WITH UTILITY CONTRACTOR FOR SERVICE TO EACH BUILDING/STRUCTURE PROVIDE ALL COMPONENTS NECESSARY FOR SERVICE. SERVICE CONDUITS AND CONDUIT ARE INDICATED ON RISER DIAGRAMS BUT MUST BE COORDINATED WITH UTILITY CONTRACTOR.
18. VERIFY PROPER LIGHT FIXTURE TRIM WITH CEILING INSTALLATION. PROVIDE GRID TRIM FOR LAYIN CEILING AND FLANGE FOR GYP OR WOOD CEILINGS.
19. PROVIDE POWER TO ALL AUXILIARY MECHANICAL DEVICES SUCH AS LOUVER, DAMPERS, CONDENSATE PUMPS, THERMOSTATS, ETC... PROVIDE CONDUIT AND CONDUCTORS AS REQUIRED.
20. IF NOT NOTED, PROVIDE (2#12+1#12) 3/4" C. FOR ALL 20 AMP BRANCH CIRCUITS. PROVIDE ADDITIONAL #12 CONDUCTOR FOR SWITCH LEGS, TRAVELERS, UNSWITCHED CONDUCTORS AS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.

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**WINDWOOD HOLLOW PARK  
RESTROOM ADDITION**  
4865 LAKESIDE DRIVE  
DUNWOODY, GA 30360

**SHEET TITLE**

**ELECTRICAL LEGEND AND GEN. NOTES**

DRAWN: JAB  
CHECKED: WFB  
SCALE: AS NOTED

**DATE PRINTED**

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REV.	DATE	REMARKS

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**E-1.0**

OF SHEETS

LUMINAIRE SCHEDULE							
TYPE	LAMPS		DESCRIPTION	VOLT	MOUNTING	MANUFACTURER, CAT. NUMBER	REMARKS
	QTY.	CAT. NO.					
F1	2	F32/T8 CW/RS/WM	1' x 4' FLUORESCENT SEALED SURFACE MOUNTED	120	SURFACE CEILING	DAY-BRITE: V2-W-A-T-2-32-UNV-LT	1.
CF1	1	42W	SURFACE MOUNTED FLUORESCENT WALL PACK	120	SURFACE MOUNTED	NITE BRITES: WPG-42C-C-12-LP	1. 2.

NOTES: 1. VERIFY MODEL NUMBERS AND FIXTURE TYPES WITH ARCHITECTURAL AND OWNER.  
2. PROVIDE PHOTOCELL TO CONTROL CANOPY LIGHTING.

**GENERAL NOTES**

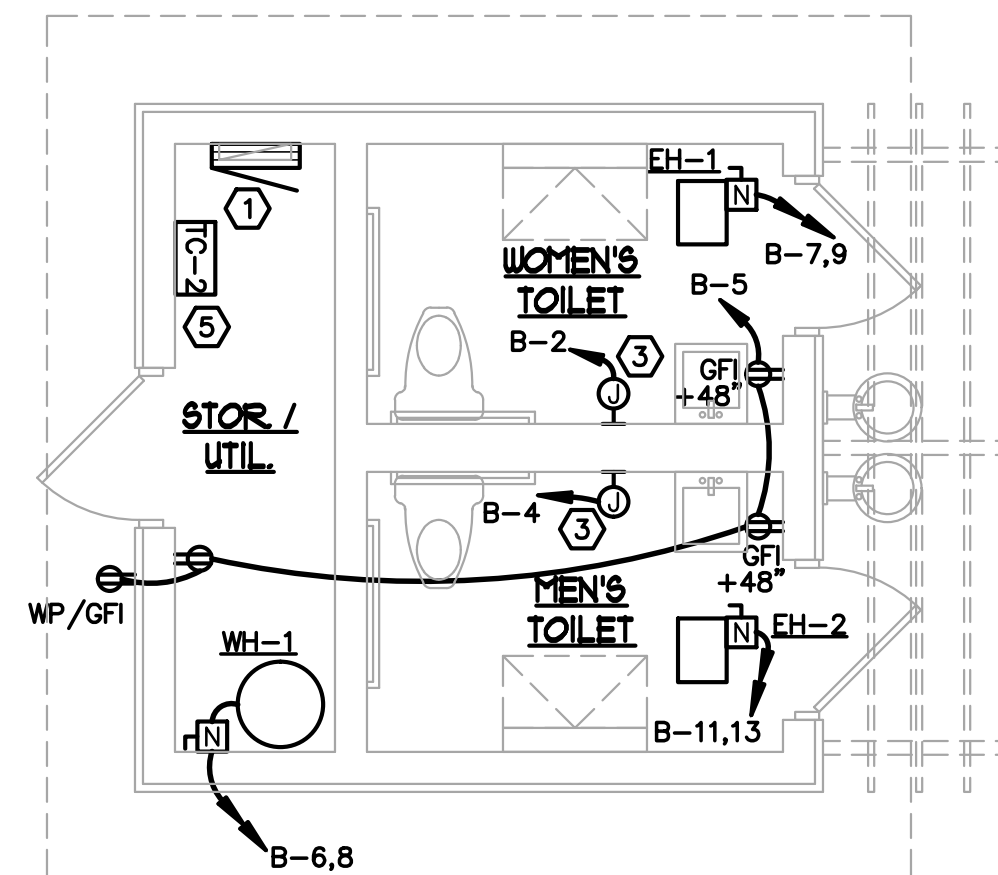
- ALL FLUORESCENT FIXTURES SHALL HAVE ELECTRONIC BALLASTS WITH 20% OR LESS TOTAL HARMONIC DISTORTION.
- CONTRACTOR TO PROVIDE ALL REQUIRED HARDWARES, BRACKETS, LAMPS, TUBES, ETC. FOR A COMPLETE INSTALLATION.
- ALL LIGHTING FIXTURES SHALL BE PERMANENTLY ATTACHED TO THE CEILING PER N.E.C. 410-16(C).
- CONTRACTOR TO INSTALL ALL LIGHTING FIXTURES AND DEVICES INCLUDING ANY OWNER-FURNISHED FIXTURES.
- ALL FIXTURE BALLASTS SHALL BE U.L. LISTED.

MECHANICAL EQUIPMENT SCHEDULE (THIS SHEET)								
KEY	DESCRIPTION	LOAD	VOLT-#	FEEDER	O.C. PROTECTION		REMARKS	
					C.B.	FUSE		
EH-1 & 2	ELECTRIC HEATERS	3.0 kW	240-1	(2#12+12G) 3/4"C	*	---	30A2P NEMA 1	1. 2.
WH-1	WATER HEATER	3.0 kW	240-1	(2#12,12G) 3/4"C	*	---	30A 2P NEMA 1	1. 2.

- NOTES: \* SEE PANELBOARD SCHEDULES FOR CIRCUIT BREAKER SIZE  
1. DISCONNECT SHALL BE NON-FUSED.  
2. VERIFY WITH MANUFACTURER IF DISCONNECT IS NEEDED OR IF UNIT HAS INTERGAL DISCONNECT.

**ELECTRICAL AND LIGHTING PLAN NOTES THIS SHEET:**

- PROPOSED LOCATION OF NEW PANEL 'B'. SEE ELECTRICAL RISER DIAGRAM, THIS SHEET AND PANELBOARD SCHEDULE THIS SHEET. VERIFY EXACT LOCATION OF NEW PANEL WITH ARCHITECT AND BUILDING OWNER PRIOR TO ROUGH-IN. MAINTAIN ALL CLEARANCES AS PER NATIONAL ELECTRIC CODE.
- CIRCUIT EMERGENCY LIGHTS AND EXIT SIGNS AHEAD OF LOCAL SWITCHING FOR CONTINUOUS OPERATION. CIRCUIT WITH SAME CIRCUIT AS GENERAL LIGHTING CIRCUIT IN SAME AREA AS PER N.E.C.
- ELECTRIC HAND DRYER. COORDINATE EXACT LOCATIONS WITH OWNER. PROVIDE (2#10+10G) 3/4"C.
- TORK 2100 SERIES OUTDOOR PHOTOCELL WITH B-BRACKET FOR WALL MOUNTING. MOUNT AT 9' A.F.F. CONNECT TO CONTROL ALL OUTDOOR LIGHT FIXTURES. POINTED IN A NORTHERLY DIRECTION FREE OF ANY OBSTRUCTIONS.
- TIME CLOCK LOCATION. REFER TO SHEET SE-03 FOR DETAILS.



**ELECTRICAL PLAN**

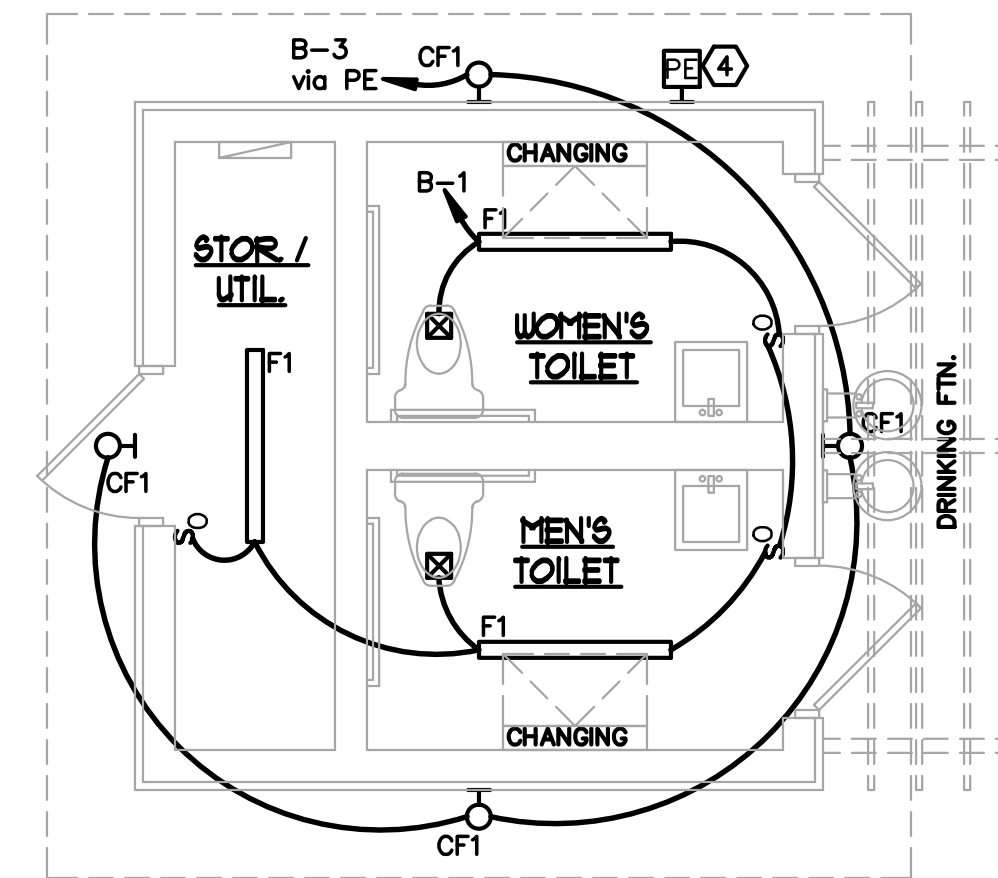
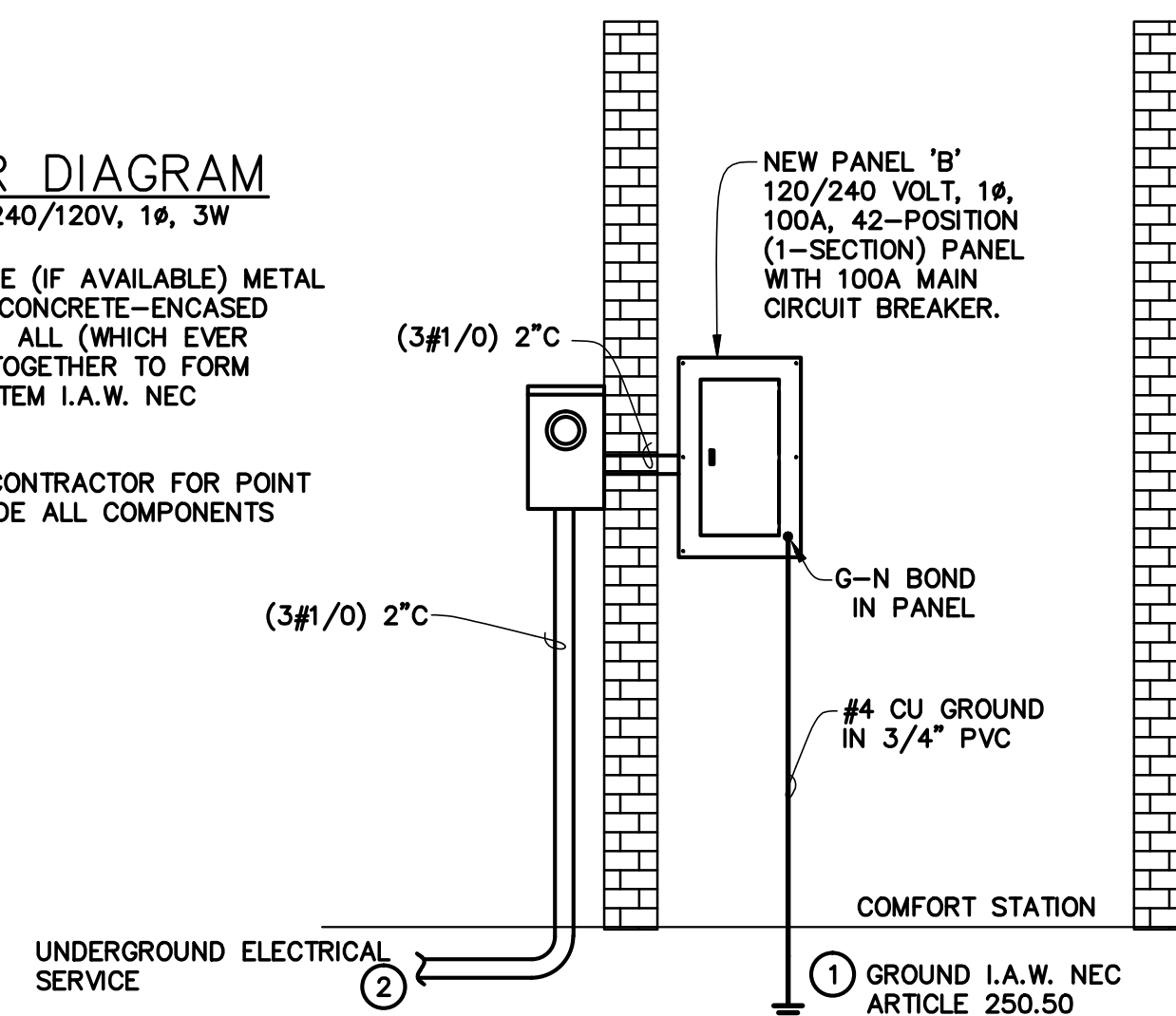
SCALE: 1/4" = 1'-0"

TAG: B						ENTRY: TBD		AIC: 22,000	
MAINS: 100A MLO						FEED THRU LUGS: NONE		SPD: NO	
SERVICE: 120/240V, 1PH, 3W						* = GFI CIRCUIT BREAKER		TRIM: SURFACE	
CKT	C/B	LOAD	kVA	PHASE	PHASE	kVA	LOAD	C/B	CKT
1	20/1	Lighting	0.5	2.0		1.5	Hand dryer	20/1	2
3	20/1	Exterior lighting	0.2		1.7	1.5	Hand dryer	20/1	4
5	20/1	Receptacle	0.7	2.2		1.5			6
7			1.5		3.0	1.5			8
9	20/2	EH-1	1.5	1.5			Spare	20/1	10
11	20/2	EH-2	1.5		1.5		Spare	20/1	12
13	20/1		1.5	1.5			Spare	20/1	14
15	20/1	Spare			0.0		Spare	20/1	16
17	20/1	Spare		0.0			Spare	20/1	18
19	20/1	Spare			0.0		Spare	20/1	20
21	20/1	Spare		0.0			Spare	20/1	22
23	-	-			0.0		-	-	24
25	-	-		0.0			-	-	26
27	-	-			0.0		-	-	28
29	-	-		0.0			-	-	30
CONNECTED kVA TOTAL:			7.5	7.3	6.2	6.0	CONNECTED AMPS TOTAL: 50.08		
DEMAND kVA TOTAL:			13.5				DEMAND AMPS TOTAL: 50.08		

**ELECTRICAL RISER DIAGRAM**

NO SCALE 240/120V, 1Ø, 3W

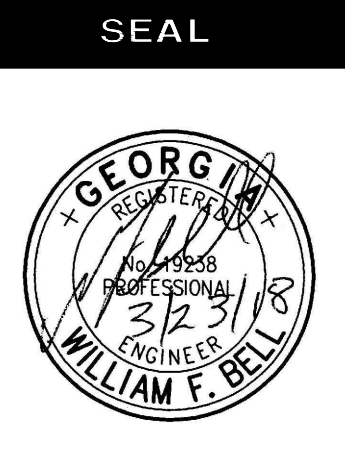
- ADDITIONAL GROUNDS TO INCLUDE (IF AVAILABLE) METAL WATER PIPING, BUILDING STEEL, CONCRETE-ENCASED ELECTRODE, AND GROUND RING. ALL (WHICH EVER AVAILABLE) SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM I.A.W. NEC ARTICLE 250.50.
- COORDINATE WITH SITE UTILITY CONTRACTOR FOR POINT OF ELECTRICAL SERVICE. PROVIDE ALL COMPONENTS NECESSARY FOR SERVICE.



**LIGHTING PLAN**

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

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ELECTRICAL PLANS

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OF SHEETS

ELECTRICAL SPECIFICATIONS  
SECTION 16000

PART 1 GENERAL

1.1 CODES AND REQUIREMENTS

- A. All electrical work shall comply with the requirements of the applicable edition of the National Electrical Code, Local Building Code and as specified herein whichever is more strict.
- B. The contractor shall comply with the requirements of the General Conditions, Supplemental General Conditions of the project specifications, all Contract Documents, and any base building specifications and building criteria included in this project.
- C. Visit the premises before submitting bid as no extras will be allowed for lack of knowledge of existing conditions.
- D. Drawings are diagrammatic in nature. Take all dimensions from Architectural drawings, certified equipment drawings, and from the structure itself before fabricating any work.
- E. The drawings indicate the location, type and sizes of various utilities within the site where known. Any relocation or remodeling required must be approved by the Architect before proceeding. Investigate all utilities such as electric and telephone and make arrangements with the proper authority to pay for any charges associated with connecting those utilities. Pay for all permits, fees, inspections etc.
- F. Good workmanship and appearance are considered equal to proper operation.
- G. Provide all core drilling, channeling, cutting, patching, trenching and backfill as required for installation of electrical equipment. Seal holes, fireproofing where necessary, and refinish all repair work to original condition where damaged by electrical work.
- H. Make provisions for safe delivery and secure storage of all materials.
  - 1. Provide the Architect with a complete set of plans and specifications corrected to as-built conditions at the completion of the job.

1.2 WARRANTY

The electrical contractor shall provide for the owner a one-year (from the date of final acceptance) warranty of all electrical equipment and systems provided under this contract except for incandescent or fluorescent lamps. All defective equipment or materials which appear during the warranty period shall be replaced or repaired by the electrical contractor in a timely fashion.

PART 2 PRODUCTS

2.1 EQUIPMENT

- A. The contractor shall provide all equipment, accessories necessary whether specifically stated or not to make the required electrical systems complete and operational.
- B. All equipment provided shall be new except as otherwise stated on the drawings. All equipment provided shall be U.L. listed when such standards exist for the type of equipment furnished and acceptable for installation by the Local Building Authority.

2.2 CONDUCTORS

- A. Minimum size #12 AWG except for control circuits which may be #14 or signal circuits which shall be as indicated. All conductors shall be copper. Increase conductor size as necessary to limit branch circuit voltage drop to 3% and feeder voltage drop to 2%.
- B. Splices for #8 and smaller conductors - wire or wing nuts.
- C. Feeders and other wiring No. 4 AWG and larger, type THWN.
- D. Other wiring No. 6 and smaller, type THWN.
- E. Wiring in high temperature areas shall be rated 105° C and be a type accepted by local code.
- F. Color Coding: Wiring for control systems to be installed in conjunction with mechanical and miscellaneous equipment shall be color coded in accordance with the wiring diagrams furnished with the equipment. Branch circuit wiring, including circuits to motors, and all feeders shall be coded by line or phase as follows:

Wire No. 2 AWG and smaller shall be factory color coded. Wire No. 1 AWG and larger may be color coded by field painting or color taping of six inch (6") length of exposed ends.

120/208 Volts	277/480 Volts
A = Black	A = Brown
B = Red	B = Orange
C = Blue	C = Yellow
Neutral = White	Neutral = Gray
Ground = Green	Ground = Green w/yellow stripes
Switch Travelers = Pink	Switch Travelers = Purple

2.3 OUTLETS

- A. 4" square or octagonal, zinc coated sheet steel boxes.
- B. Provide 3/8" no-bolt fixture studs.
- C. Provide covers set to come flush with finish walls.

D. Utility or sectional switch boxes only where permitted.

2.4 DEVICES

- A. All devices colors shall be selected by architect.
  - 1. Specification grade receptacles, Hubbell 5262-\*.
    - 2. A.C. quiet operating type switches equal to Hubbell, rated 20A, 277V.
- B. Device plates shall be nylon, color to match devices.
- C. Mount devices in accordance with the following schedule except where otherwise noted on the drawings:
  - 1. Convenience Receptacles - Long Axis Vertical 1'6" A.F.F.\*
  - 2. Light Switches - Latch Side of Door 4'0" A.F.F.
  - 3. Telephone Outlets 1'6" A.F.F.\*

\* Except in areas with counters, baseboard heaters or in areas of block or brick construction.

2.5 LIGHTING FIXTURES

- A. Provide all new lighting fixtures complete with lamps, ballasts, reflectors, plaster frames, louvers, stem hangers, etc., and as described on the drawings.
- B. All ballasts shall be internally protected by use of two internal, temperature-sensitive, non-resetting protectors, equal to G.E. Watt-Miser, Class "P".
- C. Exit lights shall conform with local code requirements.
- D. Mount all outlets at position and height to clear ducts, etc.
- E. Acrylic lenses shall be 100% virgin materials and 0.125 inch thick minimum unpenetrated thickness shall be 0.035 inch.

2.6 BRANCH CIRCUIT PANELBOARDS

- A. Provide dead-front, circuit breaker type panels, with the size and number of branches indicated. Breakers shall be thermal magnetic type employing quick-make and quick-break mechanisms for manual operation as well as automatic operation. Automatic tripping shall be indicated by the breaker handle assuming a distinctive position from the manual "on" and "off". Multiple breakers shall have a common trip. Tie handles will not be permitted.
- B. Panelboards having branch circuit breaker sizes 15 to 100 amperes shall be:
  - 1. General Electric "AQ" for operation on 120/208V. systems.
  - 2. General Electric "AE" for operation on 277/480V. systems.
- C. Panelboards may contain two (2) subfeed breakers having a rating in excess of 100 amperes, but less than 225 amperes.
- D. Panelboards having more than two (2) branch circuit breakers rated in excess of 100 amperes shall be General Electric "CCB".
- E. All spaces shall be fully equipped.
- F. Panelboards shall have a grounding lug for the equipment grounding system.
- G. Circuit breakers shall have a minimum interrupting capacity as follows:
  - 120/208 volts: 22,000 amperes.
  - In addition, upstream fuses shall be selected to provide a series rating of 100,000 amperes with downstream circuit breakers.
- H. Panelboards shall be a minimum twenty inches (20") wide (box).
  - 1. All buses shall be copper.
- J. The above panelboard designations are General Electric; however provide any of the following equipment, or as accepted:
  - 120/208V 277/480VSub-distribution type
  - Cutler Hammer CHB NFB MP-40
  - General Electric AQ AE CCB
  - I.T.E. CDP-7 CDP-7 CDP-6
  - Square-D NQOB NEHB I-Line
  - Westinghouse WEB WEHB CDP

2.7 SAFETY AND DISCONNECT SWITCHES

Provide enclosed, fusible or non-fusible safety switches where indicated and herein specified. Safety switches shall bear the UL label and each enclosure shall be the NEMA type suitable for the surrounding area and conditions (Ex. Nema 1 - Indoor, Nema 3R - Outdoor). Switches shall be minimum heavy duty, horsepower rated, and shall have quick-make and quick-break mechanisms. Switches used on motor circuits shall have adequate horsepower ratings for the motors served.

- 1. Safety switches employed as motor disconnect devices for two (2) or more loads shall be of the fusible type for rejection type fuses.
- 2. Heavy duty industrial type safety switches shall be used for 480 volt application and shall be horsepower rated with quick-make, quick-break mechanisms and interlocked covers.
- 3. Switches shall be as manufactured by Cutler-Hammer, General Electric, Square-D, Westinghouse, or as accepted, and all switches provided shall be by the same manufacturer.

2.8 FUSES

- A. Fuses shall be as manufactured by Bussmann unless noted otherwise on the drawings.

- B. Fuses for application at under 600 volts, and rated at 600 amps or less, shall be as follows:
  - 1. For all fuses in the main service, equipment, except for motor circuits, provide current limiting, 200,000 rms amperes symmetrical interrupting capacity, rejection type, Bussmann Limitron or as accepted.
  - 2. For all other fuses, provide rejection type with 200,000 rms amperes symmetrical interrupting capacity, Bussmann "Fusetron", or as accepted.

C. Control Fuses shall be Bussmann one-time nonrenewable fuses.

2.9 DRY TYPE TRANSFORMERS (IF APPLICABLE)

- A. ACCEPTABLE MANUFACTURERS
  - 1. Square D
  - 2. GE - Type QL
  - 3. Cutler-Hammer - CX6
  - 4. Alternate manufacturers may be acceptable when submitted according to Division 0 or Division 1.
- B. Dry Type Transformers: ANSI/NEMA ST 20; factory-assembled, air cooled dry type transformers; ratings as shown on the Drawings.
- C. Insulation system and average winding temperature rise for rated KVA as follows:
 

Rating	Class	Rise (degree C)
1 - 15	185	115
16 - 500	220	115
- D. Case temperature shall not exceed 35 degrees C rise above ambient at its warmest point.
- E. Winding Taps, Transformers Less than 15 KVA: Two 5% below rated voltage, full capacity taps on primary winding.
- F. Winding Taps, Transformers 15 KVA and Larger: ANSI/NEMA ST 20.
- G. Sound Level: ANSI/NEMA ST 20.
- H. Basic Impulse Level: 10 KV for transformers less than 300 KVA, 30 KV for transformers 300 KVA and larger.
  - 1. Ground core and coil assembly to enclosure by means of a visible flexible copper grounding strap.
- J. Mounting: Transformers 75 KVA and less shall be suitable for wall, floor or trapeze mounting; transformers larger than 75 KVA shall be suitable for floor or trapeze mounting.
- K. Coil Conductors: Continuous winding with termination's brazed or welded.
- L. Enclosure: ANSI/NEMA ST 20; Type 1 for indoor application, Type 3R for outdoor or wet location application. Provide lifting eyes or brackets.
- M. Isolate core and coil from enclosure using vibration-absorbing mounts.
- N. Nameplates: Include transformer connection data and overload capacity based on rated allowable temperature rise.

PART 3 EXECUTION

3.1 CONDUIT/RACEWAYS

- A. All conductors shall be enclosed by conduit sized in accordance with Table 3C of the National Electrical Code. Minimum 1/2" except for factory furnished lighting fixture flexible conduit may be 3/8". Follow the following schedule unless otherwise specified in the drawings. Exception: cable assemblies such as MC type cable may be used where allowed by NEC.
  - 1. Rigid metal conduit (RMC) and intermediate metal conduit (IMC) shall be utilized for above and below grade applications in accordance with articles 344 AND 342 of the National Electrical Code. All couplings shall be threaded.
  - 2. Rigid nonmetallic conduit (PVC) Schedule 40 shall be permitted for below grade or concrete cast in place applications above grade. All elbow transitions to above grade or stub-out of floor slab shall be asphalt coated rigid conduit. Provide equipment grounding conductor for all runs of rigid nonmetallic conduit.
  - 3. Electrical metallic tubing (EMT) shall be utilized for all dry, above grade or above floor applications in accordance with article 358 of the National Electrical Code. Couplings shall be steel compression type made up wrench-tight.
  - 4. Flexible metal conduit shall be utilized for all connections to vibrating equipment such as motors (minimum of 2'-0" - maximum of 6'-0"), connection to lay-in type light fixtures or in remodel areas specifically noted for "fishing" in existing walls or non-accessible ceilings.
  - 5. Surface metallic raceways shall be used only in areas specifically noted and of size and type specified on the drawings.
- B. All exposed conduit (including conduit installed in ceiling plenums) shall be routed parallel or perpendicular with the building walls. Support conduit as required by the National Electrical Code.

- C. Provide expansion type fittings for all conduits which cross expansion joints.

3.2 GROUNDING

- 1. Service equipment, conduit systems, supports, cabinets, equipment, transformers, fixtures, the grounded circuit conductor, etc., shall be properly grounded in accordance with the latest issue of the National Electrical Code. Provide all bonding jumpers and wire, grounding bushings, clamps, etc., as required for complete grounding. Route ground conductors to provide the shortest and most direct path to the ground electrode system. Ground connections shall have clean contact surfaces, tinned and sweated while bolting. Install all ground conductors in conduit. Make readily accessible connections to a continuous, metallic, underground cold water piping system at the point where it enters the building. If this is not practicable, connect to a cold water pipe and provide a meter jumper. Make connections to the water pipe that grounds the conduit enclosing the conductor as well as the conductor. Bond the service equipment to a separate grounding electrode per Code requirements.

3.3 PANELBOARDS

- 1. Install panelboards with the top of the trim six-feet, three-inches (6'-3") from the finished floor.
- 2. Field check all panelboard loading and reconnect circuits as required to provide balanced phase and line loads.

3.4 MECHANICAL EQUIPMENT WIRING AND CONNECTIONS

- 1. Mechanical equipment motors and controls furnished with mechanical equipment.
- 2. Provide feeder circuits to mechanical equipment and make all connections.
- 3. Provide safety switches and/or thermal overload switches as required.
- 4. Provide all power (line voltage) wiring for mechanical equipment and make all connections except for temperature control equipment, which will be wired by mechanical contractor.
- 5. Furnish, set in place, and wire, except as indicated, all heating, ventilating, air conditioning, plumbing, fire protection, motors and controls in accordance with the following schedule. Carefully coordinate with work performed under the Mechanical Division of these specifications.
  - a) Provide for each motor, one-half (1/2) horsepower and below, a horsepower rated disconnect switch and thermal overload protection unless integrally provided with the motor. Thermal overload switches for single phase motors shall be Allen-Bradley Bulletin 600 or acceptable. Size heater units for approximately one hundred fifteen percent (115%) of full load motor current.
  - b) Miscellaneous Equipment: Where outlets are indicated for miscellaneous equipment requiring electric power or control, provide wire, conduit, etc., and make all connections, unless otherwise indicated. Refer to the Mechanical Specifications and Plans covering sprinkler systems, motor interlocks, switching, etc. Provide wiring, conduit, outlets and provide final electrical connections to all equipment.

3.6 DRY TYPE TRANSFORMER INSTALLATION

- 1. Set transformer plumb and level, on 4 in. high concrete housekeeping pad for floor mounted units, on strut assemblies for wall or ceiling mounted units.
- 2. Use flexible conduit 2 ft minimum length, for connections to transformer case. Make conduit connections to side panel of enclosure.
- 3. Mount transformers on vibration isolation pads suitable for isolating the transformer noise from the building structure.
- 4. Provide seismic restraints.
- 5. Install nameplate.

3.7 TELEPHONE SYSTEM

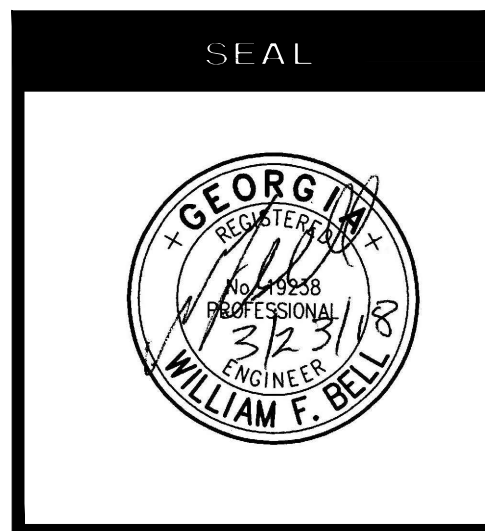
- A. Provide conduits and outlets as indicated. Provide #14 AWG pull wire for all empty conduit.
- B. Outlets shall consist of 4" square box with bushed opening in plate. Plates shall match finish of other plates.

3.8 SPECIAL SYSTEMS

- 1. Provide all special systems as specified on the drawings including all required accessories to make the system complete and operational. All special systems shall be installed and connected in accordance with the manufacturer's specifications. Provide instructional demonstration for the owner prior to final acceptance.

END OF SECTION

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