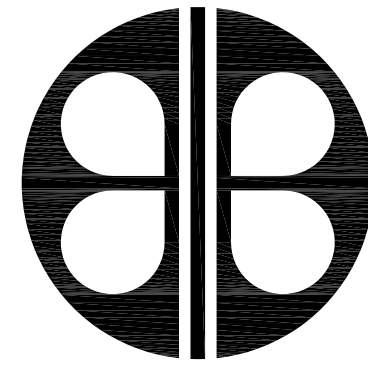


OCP-RESTROOMS BUILDING-BARNETT PARK (Y17-812)



BORRELLI + PARTNERS
ARCHITECTURE PLANNING LANDSCAPE INTERIOR
ACC 000711

720 VASSAR STREET
ORLANDO, FL. 32804 (407) 418-1338

17-109

ORANGE COUNTY PARKS
400 E. SOUTH STREET, ORLANDO, FLORIDA 32801

PERMIT SET
04-05-2018

DRAWING INDEX

CONSULTANTS:

CIVIL ENGINEERS

S K CONSORTIUM INC.

1053 N. ORLANDO AVE.
MAITLAND, FLORIDA 32751

STRUCTURAL ENGINEERS

C. LOUIS STRUCTURAL ENGINEERS

901 DOUGLAS AVENUE
ALTAMONTE SPRINGS, FLORIDA 32714

MECHANICAL, PLUMBING & ELECTRICAL ENGINEERS

BOBES ASSOCIATES CONSULTING ENGINEERS, INC.

150 CIRCLE DRIVE
MAITLAND, FLORIDA 32751

BOARD OF COUNTY COMMISSIONERS

TERESA JACOBS
COUNTY MAYOR

BETSY VANDERLEY
DISTRICT 1

JENNIFER THOMPSON
DISTRICT 4

BRYAN NELSON
DISTRICT 2

EMILY BONILLA
DISTRICT 5

PETE CLARKE
DISTRICT 3

VICTORIA P. SIPLIN
DISTRICT 6

GENERAL

G-000 COVER SHEET & INDEX OF DRAWINGS

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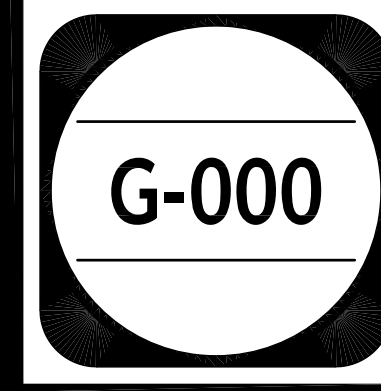
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P-102 FLOOR PLAN PLUMBING - DOMESTIC WATER
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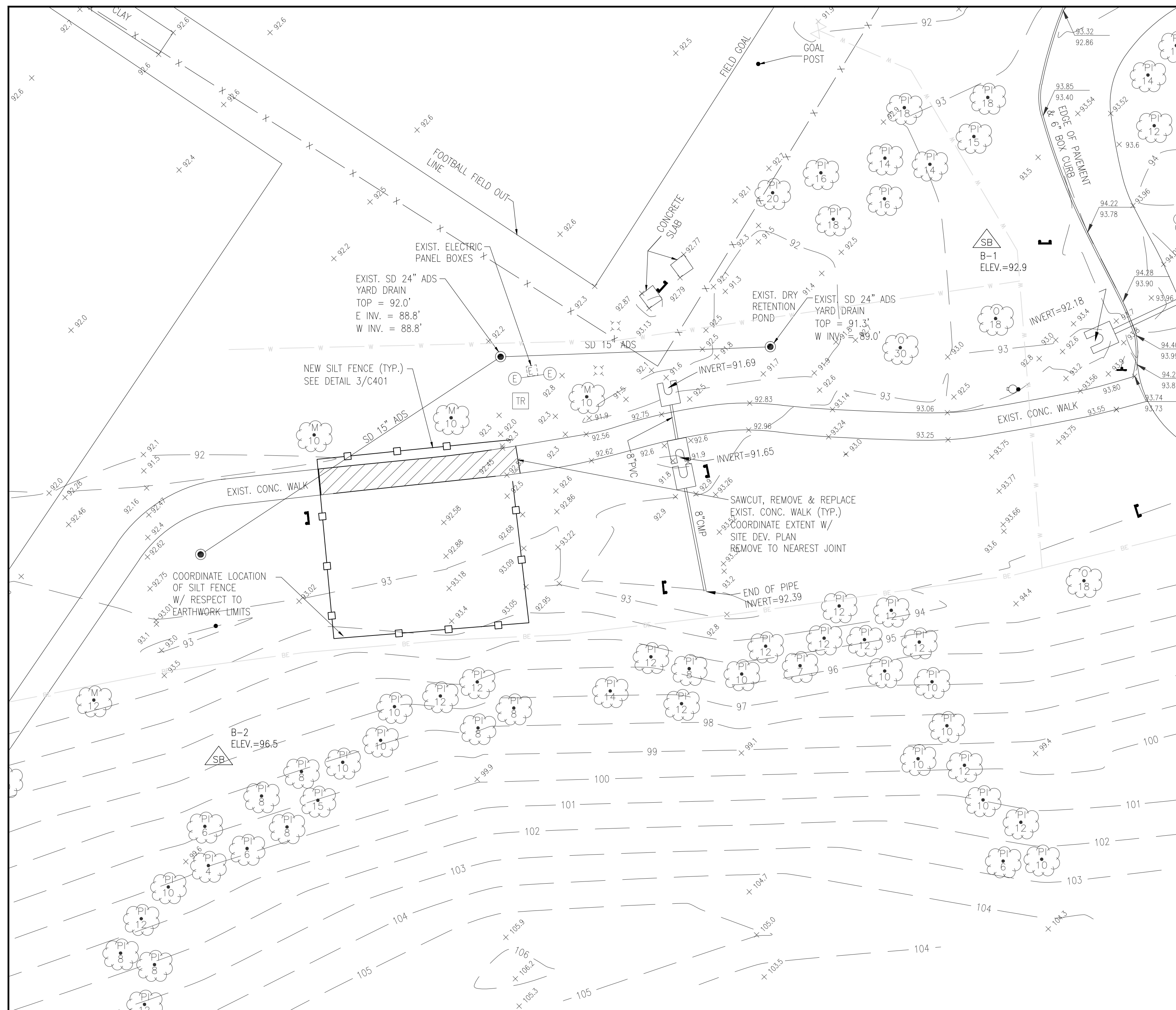
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ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)

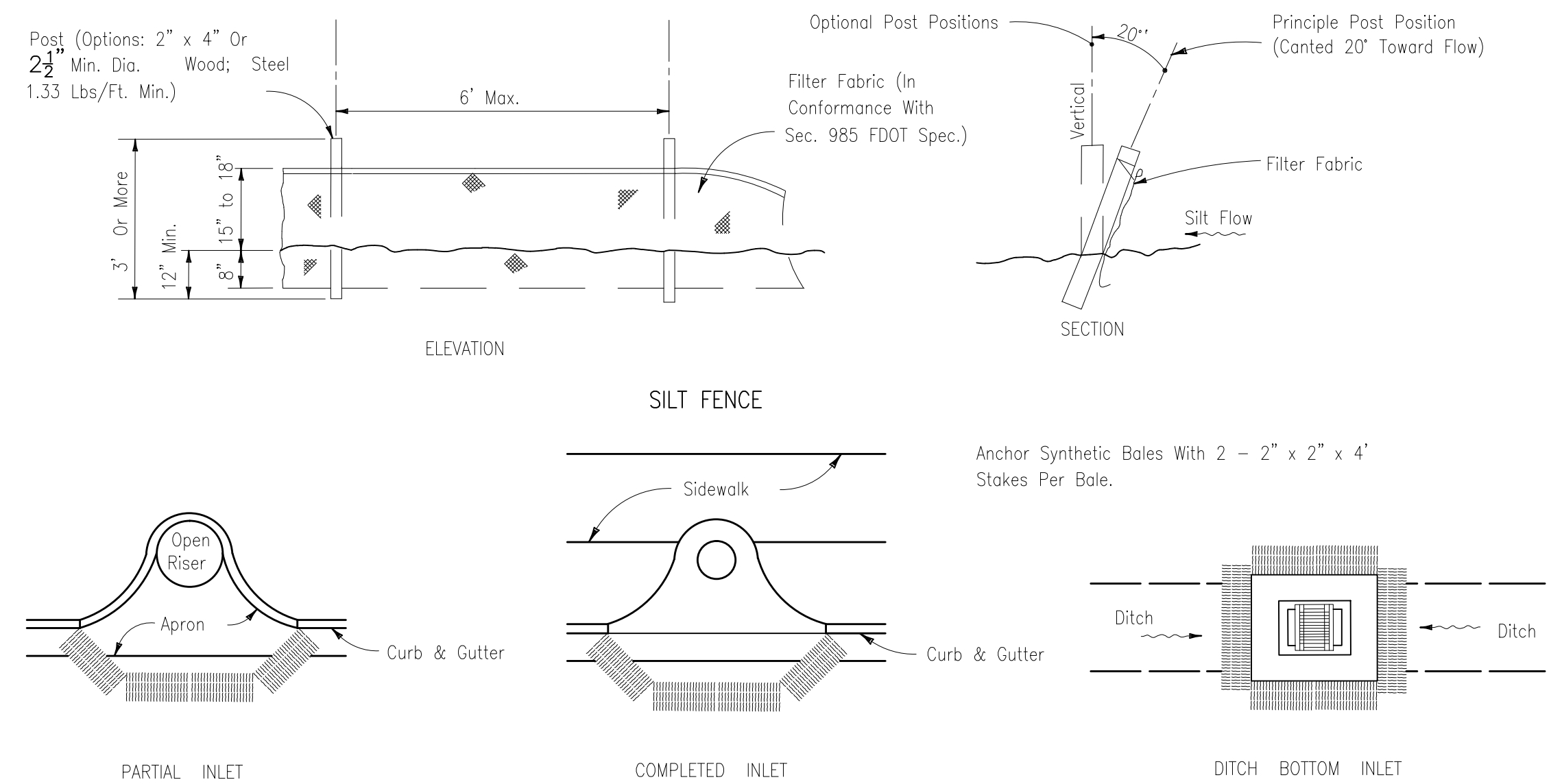
<p>BORRELLI + PARTNERS ARCHITECTURE PLANNING LANDSCAPE INTERIOR ORLANDO, FL. 32804 (407) 418-1338 720 VASSAR STREET</p>		<p>17-109</p>	
<p>400 E. SOUTH STREET, ORLANDO, FLORIDA 32801</p>		<p>PERMIT SET 04-05-2018</p>	
<p>DRAWING INDEX</p>		<p>COVER SHEET AND INDEX OF DRAWINGS</p>	
<p>PROJECT NO. 17-109</p>	<p>PHASE PERMIT SET</p>	<p>REV. AS NOTED</p>	<p>DATE 17-109</p>
<p>SCALE</p>	<p>FILE NAME 17-109</p>	<p>DRAWN BY RP</p>	<p>CHECKED BY JJA</p>
<p>PROJECT ADDRESS 401 W. COLONIAL DR. ORLANDO, FLORIDA 32808</p>	<p>OWNER NAME AND ADDRESS ORANGE COUNTY PARKS 400 E. SOUTH STREET ORLANDO, FLORIDA 32801</p>	<p>DRAWING TITLE COVER SHEET AND INDEX OF DRAWINGS</p>	<p>CONSULTANTS</p>
<p>DATE 04-05-2018</p>	<p>DATE</p>	<p>DATE</p>	<p>DATE</p>





DEMOLITION AND EROSION CONTROL PLAN

SCALE: 1" = 20'



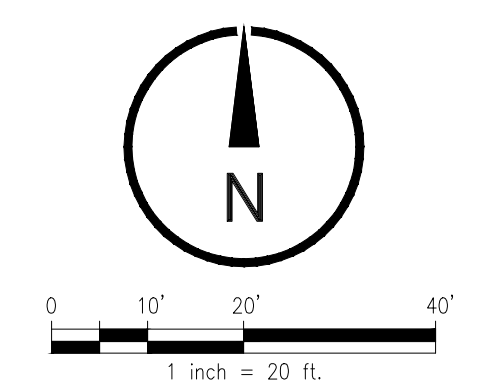
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

1 EROSION CONTROL DETAILS
C001 NTS



VICINITY MAP
SCALE: NOT TO SCALE

PROJECT LOCATION



SOIL EROSION & SEDIMENTATION CONTROL NOTES:

1. ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO ORANGE COUNTY AND ST. JOHNS RIVER WATER MANAGEMENT DISTRICT (SJRWMD).
2. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN, CONSTRUCTION.
3. SOIL MATERIALS, SHALL BE CONTAINED, AND NOT ALLOWED TO COLLECT ON ANY OFF-PERIMETER AREAS OR IN WATERWAYS. THESE INCLUDE BOTH NATURAL AND MAN-MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES AND POND.
4. DAILY INSPECTIONS SHALL BE MADE BY THE CONTRACTOR TO DETERMINE THE EFFECTIVENESS OF THESE EFFORTS. ANY NECESSARY REMEDIES SHALL BE PERFORMED WITHOUT DELAY.
5. ALL MUD, DIRT OR OTHER MATERIALS TRACKED OR SPILLED ONTO EXISTING STATE-COUNTY-CITY OR PRIVATE ROADS AND FACILITIES FROM THIS SITE, DUE TO CONSTRUCTION SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR/BUILDER.
6. PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES OR ANY DISTURBED LAND AREAS SHALL BE COMPLETED WITHIN (15) FIFTEEN CALENDAR DAYS AFTER FINAL GRADING. WHEN IT IS NOT POSSIBLE TO PERMANENTLY PROTECT A DISTURBED AREA IMMEDIATELY AFTER GRADING OPERATIONS, TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED. ALL TEMPORARY PROTECTION SHALL BE MAINTAINED UNTIL PERMANENT MEASURES ARE IN PLACE AND ESTABLISHED. A CERTIFICATE OF COMPLIANCE WILL NOT BE ISSUED UNTIL THE ABOVE REQUIREMENTS HAVE BEEN MET.
7. EXISTING DRAINAGE SYSTEM AND INLETS SHALL BE PROTECTED BY USING FILTER FABRIC PLACED AROUND INLETS AND BENEATH GRATES.

SITE DEMOLITION NOTES:

1. ALL DEMOLITION AND CONSTRUCTION ACTIVITY WILL BE ACCOMPLISHED IN APPROPRIATE PHASES IN ORDER TO KEEP EXISTING FACILITY OPERATIONAL.
2. CONTRACTOR SHALL OBTAIN COPIES OF RECORD DRAWINGS, AND BE RESPONSIBLE FOR LOCATING EXISTING UTILITIES WITHIN THE PROJECT AREA.
3. DISPOSAL OF ALL MATERIAL LEAVING THE SITE WILL BE ON HAUL ROUTES, AND BY METHODS AS APPROVED BY OWNER.
4. COORDINATE LOCATION OF CONTRACTOR STAGING AREA WITH OWNER CONSTRUCTION REPRESENTATIVE.
5. ALL PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTED UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. THE COST FOR SUCH RESTORATION SHALL BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.
6. ALL SURVEY DATA USED AND CONDITIONS ASSUMED TO BE PRESENT IN PREPARATION OF THESE PLANS WAS PROVIDED BY OC AND RECORD/AS-BUILT DOCUMENTS FOR THE EXISTING PARK PROVIDED BY OCCP. SKC IS NOT RESPONSIBLE FOR INACCURACY OF INFORMATION PERTAINING TO EXISTING CONDITIONS.
7. CONTRACTOR SHALL CLEAN THE CONSTRUCTION AREA OF ALL DEBRIS, AGGREGATES, ETC. ALL WASTE MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A LEGAL MANNER.
8. CONTRACTOR SHALL PROTECT THE EDGE OF ALL REMAINING PAVEMENT AND HARDSCAPE. DO NOT HAUL OVER UNPROTECTED PAVEMENT OR SAWCUT EDGES.
9. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES AND IMPROVEMENTS PRIOR TO START OF CONSTRUCTION.
10. EXISTING SITE MAY CONTAIN ABOVE AND BELOW GROUND IMPROVEMENTS NOT DEPICTED ON THIS PLAN. CONTRACTOR SHALL VERIFY SITE CONDITIONS WITH OWNER'S REPRESENTATIVE AND BE RESPONSIBLE FOR REMOVAL OR RELOCATION OF EXISTING IMPROVEMENTS INTERFERING WITH NEW DEVELOPMENT.
11. ALL DISTURBED AREAS WITHIN PROJECT AREA SHALL BE SOODED.
12. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF PROJECT AREA AND MAINTENANCE OF PEDESTRIAN AND VEHICULAR TRAFFIC. CONTRACTOR SHALL PROVIDE TEMPORARY SIDEWALK FOR PEDESTRIAN TRAFFIC FROM EXISTING PARKING AREA.

LEGAL DESCRIPTION:

A PORTION OF GORDON BARNETT PARK AS RECORDED IN PLAT BOOK 7, PAGES 104 THROUGH 107 IN THE PUBLIC RECORDS OF ORANGE COUNTY, FLORIDA.

SURVEYOR'S REPORT:

1. VERTICAL INFORMATION SHOWN HEREON REFERS TO AN ORANGE COUNTY BENCHMARK POINT #S1152016 WITH WITH A PUBLISHED ELEVATION = 94.332 NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
2. THE HORIZONTAL POSITIONS FOR ALL FEATURES SHOWN ON THE MAP ARE RELATIVE TO NORTH AMERICAN DATUM, NAD 1983, 2007 ADJUSTMENT, STATE PLANE COORDINATE SYSTEM, FLORIDA EAST ZONE.

LEGEND

	EXIST.	TO BE REMOVED
ASPHALT PAVEMENT		
CONCRETE PAVEMENT		
CONCRETE CURB		
SIGN		
CHAIN LINK FENCE		
WATER LINE		
SANITARY SEWER LINE		
STORM DRAIN LINE		
LIGHT POLE		
FIRE HYDRANT		
SANITARY SEWER CLEANOUT		
STORM DRAIN INLET		
STORM YARD DRAIN		
TREE		

URBAN DESIGN PLANNING ENGINEERING
SK Consortium, Inc.
 1053 N. ORLANDO AVE. SUITE 3 MAITLAND FLORIDA 32751
 TELEPHONE 407-629-4288 FACSIMILE 407-629-1656 EB# 7080

ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)

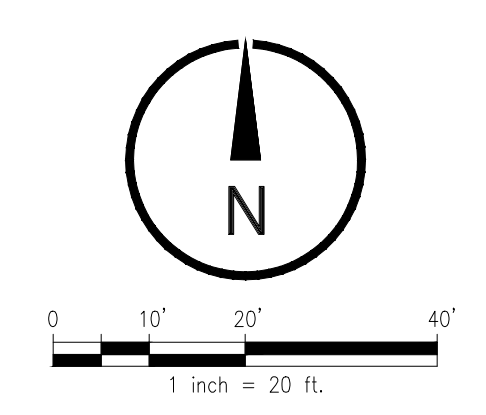
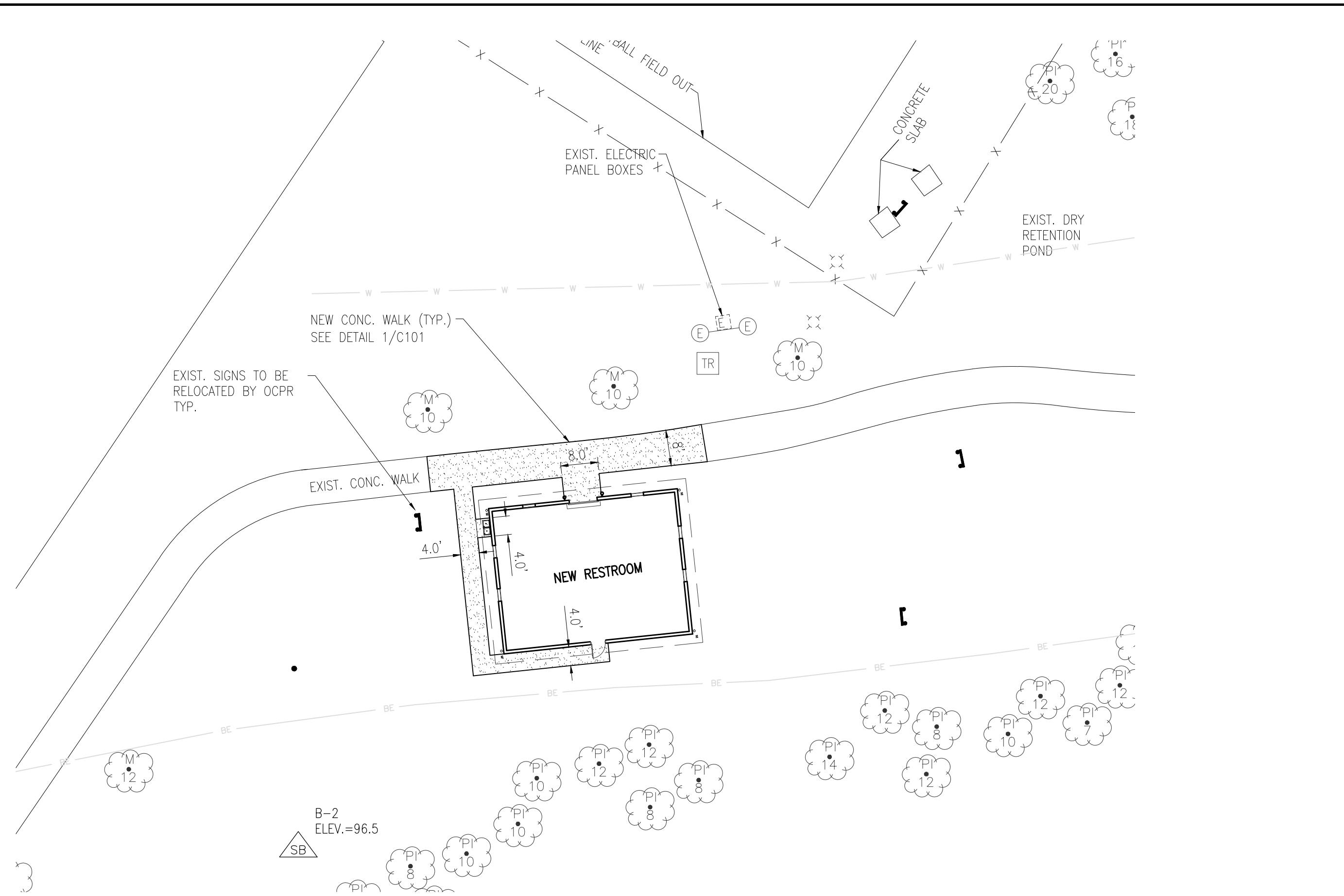
BORRELLI PARTNERS
 ARCHITECTS AND ENGINEERS
 770 VASSAR STREET
 ORLANDO, FLORIDA 32808
 ORLANDO OFFICE: 407-415-1338
 CONFIDENTIAL: THIS DRAWING IS THE PROPERTY OF BORRELLI PARTNERS AND SHALL NOT BE TRANSMITTED TO ANY OTHER PARTY WITHOUT THE WRITTEN PERMISSION OF BORRELLI PARTNERS.

CONSULTANTS
 SIGNATURE AND DATED SEAL
 M. J. ALDRICH
 PE 11046

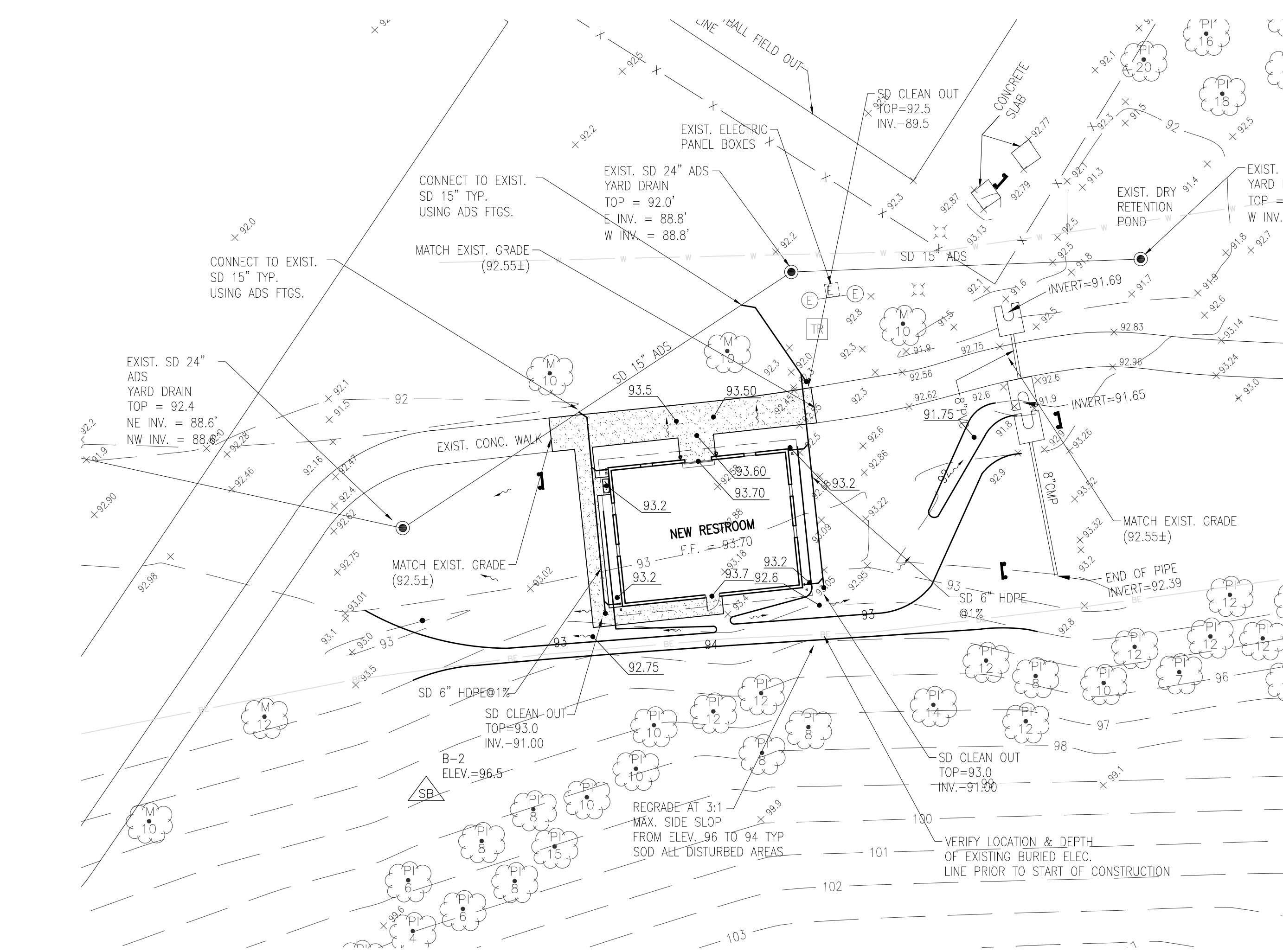
DEMOLITION AND EROSION CONTROL PLAN

PROJECT NO.	DATE	REV.	DESCRIPTION
17-109			PERMIT SET

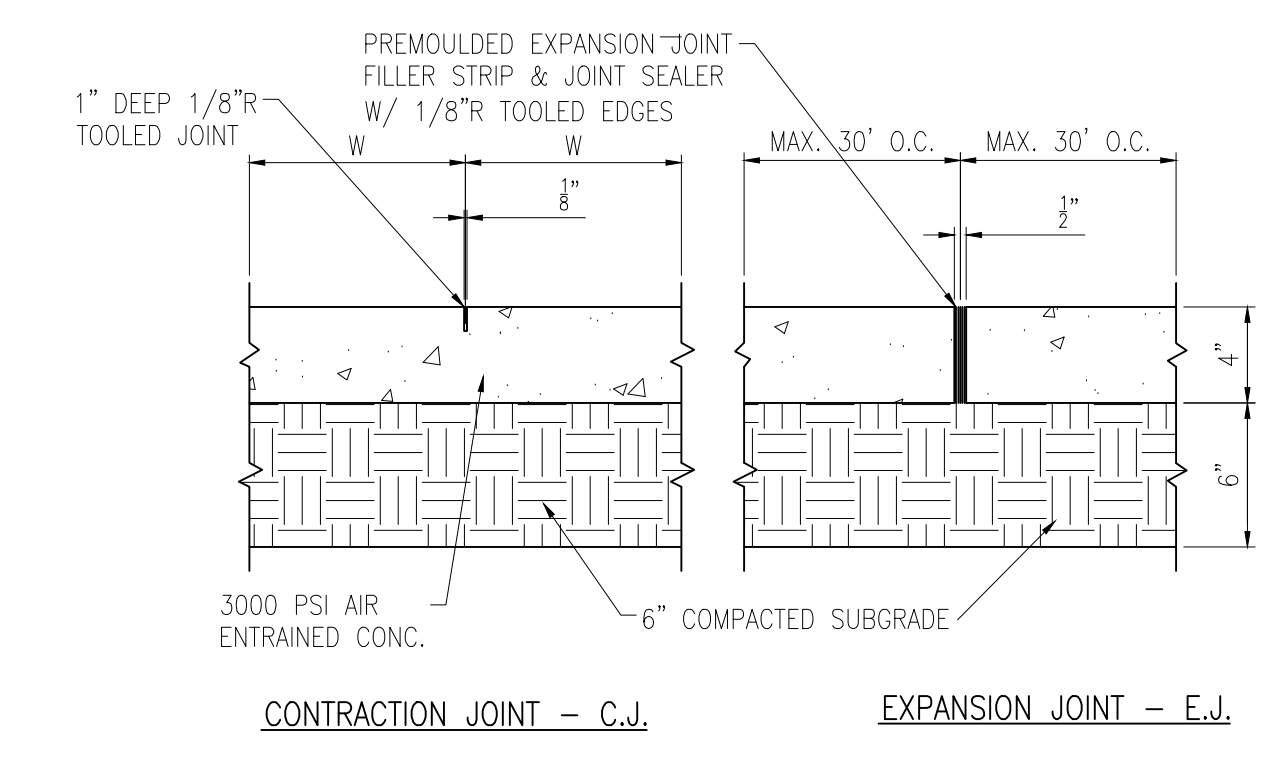
C001



SITE DEVELOPMENT PLAN
SCALE: 1" = 20'



GRADING + DRAINAGE PLAN
SCALE: 1" = 20'



- NOTES:**
1. A THICKENED EDGE SHALL BE PROVIDED BETWEEN SIDEWALK AND DRIVEWAYS OR PARKING LOT.
 2. SLOPE CONC. SIDEWALKS AWAY FROM BUILDINGS TO PROVIDE POSITIVE DRAINAGE.
 3. THE CROSS SLOPE OF THE SIDEWALK SHALL NOT EXCEED 2%.
 4. PROVIDE CONTROL JOINTS @ INTERVALS EQUAL TO SIDEWALK WIDTH (W).
 5. PROVIDE PREMOLDED EXPANSION JOINT WHERE CONC. WALK ABUTS BLDG., POLES, AND OTHER CONC. WALKS.

1 CONC. SIDEWALK DETAIL
C101 1-1/2"=1'-0"

SITE DATA:

PARCEL ID: 19-22-29-3086-00-000
 ADDRESS: 4801 WEST COLONIAL DRIVE, ORLANDO, FLORIDA 32808
 ZONING: NA (OC PARK)
 PROJECT AREA: 0.1 AC.

*PROJECT SCOPE CONSISTS OF CONSTRUCTING 1275 SF RESTROOM BUILDING AT BARNETT PARK

GEOMETRY NOTES:

1. ALL SURVEY DATA USED AND CONDITIONS ASSUMED TO BE PRESENT IN PREPARATION OF THESE PLANS WAS PROVIDED BY AMEC FOSTER WHEELER ENVIRONMENT & INFRASTRUCTURE INC.
2. THE CONTRACTOR SHALL VERIFY AND LOCATE ALL VERTICAL AND HORIZONTAL CONTROL POINTS PRIOR TO CONSTRUCTION. IF ANY DISCREPANCIES SHOULD BE FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SURVEYOR OF THE CONDITION IN WRITING PRIOR TO COMMENCING HIS CONSTRUCTION ACTIVITIES.
3. ALL PAVEMENT OFFSETS, RADII AND DIMENSIONS SHOWN ARE TO PROPOSED EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.
4. THE CONTRACTOR SHALL STAKE ALL IMPROVEMENTS USING THE GEOMETRIC DATA PROVIDED. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO COMPLETELY STAKE AND CHECK ALL IMPROVEMENTS TO ENSURE ADEQUATE POSITIONING, BOTH HORIZONTAL AND VERTICAL, PRIOR TO THE INSTALLATION OF ANY IMPROVEMENTS.

GENERAL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF ALL PEDESTRIAN AND VEHICULAR TRAFFIC WITHIN INCLUDING PROVISION FOR TEMPORARY SIGNAGE, SIDEWALK, RAMPS, ETC. AS REQUIRED BY OCPR.
2. THE EXTENT OF EROSION PROTECTION MEASURES SHOWN ARE THE MINIMUM REQUIRED. CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES AS REQUIRED DURING CONSTRUCTION AS DEEMED NECESSARY.
3. REFER TO SHEET C001 FOR EROSION & SEDIMENTATION CONTROL DURING CONSTRUCTION.
4. ALL DISTURBED AREAS SHALL BE SODDED WITH BAHIA SOD.

DRAINAGE NOTES

1. ALL STORM DRAIN INLETS LOCATED IN VEHICULAR TRAFFIC AREAS SHALL RECEIVE A STEEL ANGLE GRATE SEAT. ALL GRATES SHALL BE TRAFFIC RATED.
2. REFER TO SHEET C002 FOR EROSION & SEDIMENTATION CONTROL DURING CONSTRUCTION.
3. CONTRACTOR SHALL PROVIDE ALL NECESSARY PVC BOOTS & FITTINGS AT DOWN SPOUTS DEPICTED ON THIS PLAN AND CONNECT TO UNDERGROUND DRAINAGE SYSTEM.

STORMWATER MANAGEMENT:

1. THE PROJECT IS PART OF EXISTING STORMWATER MASTER SYSTEM PERMITTED BY SJRWMD AND OC.

LEGEND:

	EXIST.	NEW
ASPHALT PAVEMENT		
CONCRETE WALK		
CONCRETE CURB		
LIGHT POLE		
FIRE HYDRANT		
SIGN		

URBAN DESIGN PLANNING ENGINEERING
SK Consortium, Inc.
 1053 N. ORLANDO AVE. SUITE 3 MAITLAND FLORIDA 32751
 TELEPHONE 407-629-4288 FACSIMILE 407-629-1656 EB# 7080

ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)

BORRELLI PARTNERS
 ARCHITECTS
 770 VASSAR STREET
 ORLANDO, FLORIDA 32808
 TEL: 407-418-1318
 FAX: 407-418-1319
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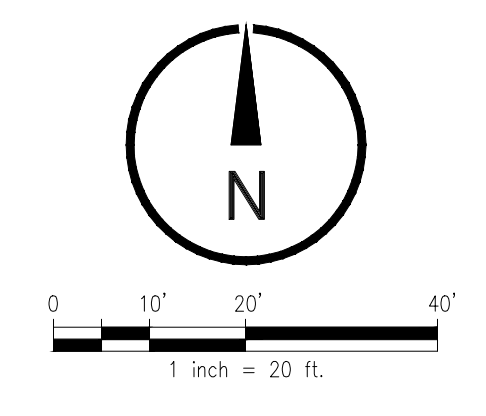
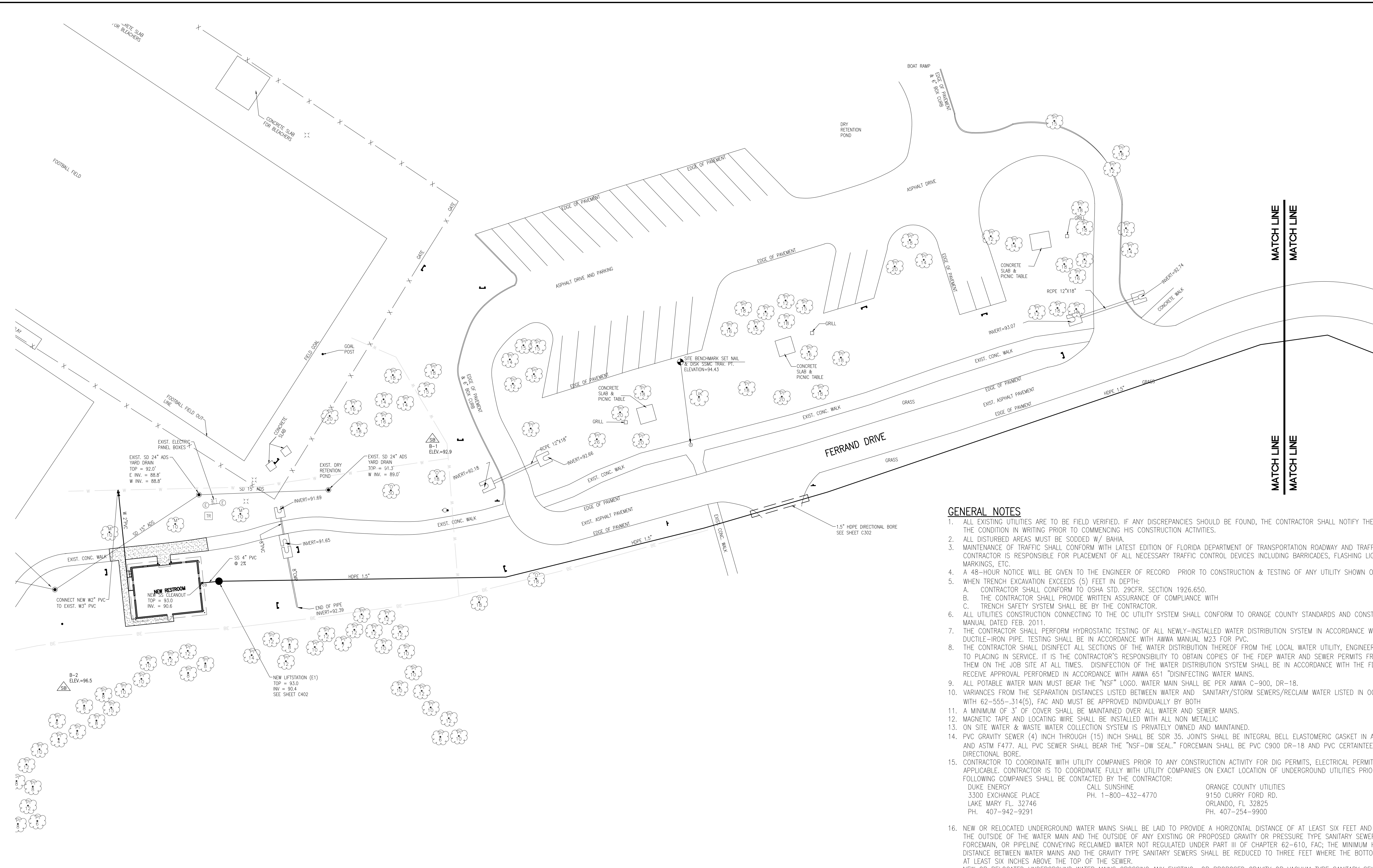
CONSULTANTS
 SIGNATURE AND DATED SEAL
 M.A. ID: KALAGICH
 PE-11046

DRAWING TITLE
SITE DEVELOPMENT AND GRADING PLAN

PROJECT NO.	DATE	DESCRIPTION	REV.
17-109	04-05-2018	PERMIT SET	

PROJECT ADDRESS	OWNER NAME AND ADDRESS
4801 W COLONIAL DR ORLANDO, FLORIDA 32808	ORANGE COUNTY PARKS 400 E. SOUTH STREET 5TH FLOOR ORLANDO, FLORIDA 32801

C101



UTILITY PLAN
SCALE: 1" = 20'

	EXIST.	NEW
WATER LINE	— W —	— W —
SANITARY SEWER LINE	— SS —	— SS —
FORCE MAIN	— FM —	— FM —
POWER POLE	⊕	⊕
LIGHT POLE	⊙	⊙
WATER VALVE	⊗	⊗
CLEAN-OUT	∞	∞
SANITARY SEWER MANHOLE	○	●
FIRE HYDRANT	⊕	⊕
OVERHEAD POWER LINE	— OHL —	— OHL —

GENERAL NOTES

- ALL EXISTING UTILITIES ARE TO BE FIELD VERIFIED. IF ANY DISCREPANCIES SHOULD BE FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SURVEYOR OF THE CONDITION IN WRITING PRIOR TO COMMENCING HIS CONSTRUCTION ACTIVITIES.
- ALL DISTURBED AREAS MUST BE SODED W/ BAHIA.
- MAINTENANCE OF TRAFFIC SHALL CONFORM WITH LATEST EDITION OF FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS. CONTRACTOR IS RESPONSIBLE FOR PLACEMENT OF ALL NECESSARY TRAFFIC CONTROL DEVICES INCLUDING BARRICADES, FLASHING LIGHTS, TEMPORARY SIGNAGE, MARKINGS, ETC.
- A 48-HOUR NOTICE WILL BE GIVEN TO THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION & TESTING OF ANY UTILITY SHOWN ON THESE PLANS.
- WHEN TRENCH EXCAVATION EXCEEDS (5) FEET IN DEPTH:
 - CONTRACTOR SHALL CONFORM TO OSHA STD. 29CFR. SECTION 1926.650.
 - THE CONTRACTOR SHALL PROVIDE WRITTEN ASSURANCE OF COMPLIANCE WITH
 - TRENCH SAFETY SYSTEM SHALL BE BY THE CONTRACTOR.
- ALL UTILITIES CONSTRUCTION CONNECTING TO THE OC UTILITY SYSTEM SHALL CONFORM TO ORANGE COUNTY STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL DATED FEB. 2011.
- THE CONTRACTOR SHALL PERFORM HYDROSTATIC TESTING OF ALL NEWLY-INSTALLED WATER DISTRIBUTION SYSTEM IN ACCORDANCE WITH AWWA STANDARD C600 FOR DUCTILE-IRON PIPE. TESTING SHALL BE IN ACCORDANCE WITH AWWA MANUAL M23 FOR PVC.
- THE CONTRACTOR SHALL DISINFECT ALL SECTIONS OF THE WATER DISTRIBUTION THEREOF FROM THE LOCAL WATER UTILITY, ENGINEER OF RECORD, AND FDEP, PRIOR TO PLACING IN SERVICE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF THE FDEP WATER AND SEWER PERMITS FROM THE OWNER AND MAINTAIN THEM ON THE JOB SITE AT ALL TIMES. DISINFECTION OF THE WATER DISTRIBUTION SYSTEM SHALL BE IN ACCORDANCE WITH THE FDEP WATER PERMIT, AND RECEIVE APPROVAL PERFORMED IN ACCORDANCE WITH AWWA 651 "DISINFECTING WATER MAINS."
- ALL POTABLE WATER MAIN MUST BEAR THE "NSI" LOGO. WATER MAIN SHALL BE PER AWWA C-900, DR-18.
- VARIANCES FROM THE SEPARATION DISTANCES LISTED BETWEEN WATER AND SANITARY/STORM SEWERS/RECLAIM WATER LISTED IN OCU STANDARDS MUST COMPLY WITH 62-555-.314(5), FAC AND MUST BE APPROVED INDIVIDUALLY BY BOTH:
 - A MINIMUM OF 3' OF COVER SHALL BE MAINTAINED OVER ALL WATER AND SEWER MAINS.
 - MAGNETIC TAPE AND LOCATING WIRE SHALL BE INSTALLED WITH ALL NON METALLIC.
 - ON SITE WATER & WASTE WATER COLLECTION SYSTEM IS PRIVATELY OWNED AND MAINTAINED.
- PVC GRAVITY SEWER (4) INCH THROUGH (15) INCH SHALL BE SDR 35. JOINTS SHALL BE INTEGRAL BELL ELASTOMERIC GASKET IN ACCORDANCE WITH ASTM D3212 AND ASTM F477. ALL PVC SEWER SHALL BEAR THE "NSF-DW SEAL" FORCEMAIN SHALL BE PVC C900 DR-18 AND PVC CERTAINTED CERTA-LOK PIPE AT DIRECTIONAL BORE.
- CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES PRIOR TO ANY CONSTRUCTION ACTIVITY FOR DIG PERMITS, ELECTRICAL PERMITS OR OTHER PERMITS AS APPLICABLE. CONTRACTOR IS TO COORDINATE FULLY WITH UTILITY COMPANIES ON EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO EXCAVATION. THE FOLLOWING COMPANIES SHALL BE CONTACTED BY THE CONTRACTOR:

DUKE ENERGY 3300 EXCHANGE PLACE LAKE MARY FL 32746 PH. 407-942-9291	CALL SUNSHINE PH. 1-800-432-4770	ORANGE COUNTY UTILITIES 9150 CURRY FORD RD. ORLANDO, FL 32825 PH. 407-254-9900
--	-------------------------------------	---
- NEW OR RELOCATED UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET AND PREFERABLY 10 FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE TYPE SANITARY SEWER, STORM SEWER, WASTEWATER FORCEMAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, FAC; THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND THE GRAVITY TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.
NEW OR RELOCATED UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY OR VACUUM TYPE SANITARY SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES AND PREFERABLY 12 INCHES ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
NEW OR RELOCATED UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCEMAIN OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE. AT THE UTILITY CROSSINGS DESCRIBED ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPE LINE. ALTERNATIVELY AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM TYPE SANITARY SEWERS OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, FAC, AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, FAC.
- ALL PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTED UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. THE COST FOR SUCH RESTORATION SHALL BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.

FORCE MAIN ROUTING OPTION

- CONTRACTOR HAS THE OPTION OF DIRECTIONAL BORING THE ENTIRE FORCE MAIN AT LOCATION SHOWN.

ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)

BORRELLI PARTNERS
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ORLANDO, FL 32801
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FAX: 407-418-1339
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CONSULTANTS
SIGNATURE AND DATED SEAL
M.A.J.D.
KALAGIHI
PE-11046

DRAWING TITLE
UTILITY PLAN

PROJECT ADDRESS 4801 W. COLONIAL DR. ORLANDO, FLORIDA 32808	OWNER NAME AND ADDRESS ORANGE COUNTY PARKS 400 E. SOUTH STREET 5TH FLOOR ORLANDO, FLORIDA 32801
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PROJECT NO.	DATE	REV.	DESCRIPTION
17-109			
PHASE	PERMIT SET		
SCALE			
FILE NAME			
DRAWN BY	D. FORBITH		
CHECKED BY	M. KALAGIHI		
DATE	04-25-2018		

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TELEPHONE 407-629-4288 FACSIMILE 407-629-1656 EB# 7080



ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL

APPENDIX A STANDARD DRAWINGS GENERAL

DATE: February 11, 2011

VALVE BOX PAD **FIGURE A112**

24" X 24" SQUARE (ROUND OPTIONAL) CONCRETE OR POLYMER PAD TYP EACH VALVE BOX

TOP FLUSH WITH FINISHED GRADE

LOOP WIRE

ASPHALT SURFACE

BASE

LOCATING WIRE

VALVE BOX AND COVER (TYP)

VALVE BOX AND COVER (SQUARE FOR RECLAIMED WATER)

VALVE BOX AND COVER (TYP)

6" THICK 2500 PSI (MIN) CONCRETE WITH #4 REBAR CONTINUOUS (SEE NOTE 2) OR 4" THICK POLYMER MIX MATERIAL

IDENTIFICATION DISC (SEE NOTE 1 AND DETAILS BELOW)

INSIDE PAVEMENT

APPROX. 3"

LETTERING TO BE MACHINE ENGRAVED WITH 1/8" TO 3/8" CAP. LETTERS

O.C.U.

AFC 6"

R/WGV

WATER

L-20

2009

MANUFACTURER AND SIZE

TYPE OF VALVE

UTILITY

DIRECTION AND NUMBER OF TURNS

YEAR

IDENTIFICATION DISC EXAMPLE

3" MIN

3" MIN

2" MIN

THEFT PROOF ANCHOR PIN

DISC TO BE EMBEDDED IN PAD

OUTSIDE PAVEMENT

DISC TO BE HANGING IN THE BOX ANCHORED TO THE LOCATING WIRE.

INSIDE PAVEMENT

NOTES:

- BRONZE (OR STAINLESS STEEL) IDENTIFICATION DISC SHALL BE REQUIRED FOR ALL VALVES, EXCEPT HYDRANT VALVES.
- IN LIEU OF PRECAST CONCRETE PAD, A 6" THICK X 24" (ROUND OR SQUARE) POURED CONCRETE PAD WITH TWO #4 REBAR AROUND PERIMETER MAY BE USED.

ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL

APPENDIX A STANDARD DRAWINGS GENERAL

DATE: February 11, 2011

SEPARATION REQUIREMENTS FOR WATER, WASTEWATER AND RECLAIMED WATER MAINS **FIGURE A116**

PROPOSED UTILITY	HORIZONTAL & VERTICAL SEPARATION REQUIREMENTS							
	POTABLE WATER		RECLAIMED WATER		WASTEWATER (GRAVITY & FM)		STORM SEWER	
	HORIZ	VERT	HORIZ	VERT	HORIZ	VERT	HORIZ	VERT
POTABLE WATER	3' NOTE 1	12" NOTE 3	3' NOTE 1 & 3	12" NOTE 3	6' NOTE 3	12" NOTE 3	3' NOTE 1 & 3	12"/18" NOTE 2 & 3
RECLAIMED WATER	3' NOTE 1 & 3	12" NOTE 3	3' NOTE 1	12"	3' NOTE 1	12"	3' NOTE 1	12"/18" NOTE 2
WASTEWATER (GRAVITY AND FM)	6' NOTE 3	12" NOTE 3	3' NOTE 1	12"	3' NOTE 1	12"	3' NOTE 1	12"/18" NOTE 2
RIGHT OF WAY	3' NOTE 1	N/A	3' NOTE 1	N/A	3' NOTE 1	N/A	N/A	N/A

NOTES:

- THIS SEPARATION REQUIREMENT IS TO PROVIDE ACCESSIBILITY FOR CONSTRUCTION AND MAINTENANCE. THREE FEET OF HORIZONTAL SEPARATION IS THE MINIMUM FOR PIPES WITH THREE FEET OF COVER. FOR PIPES INSTALLED AT GREATER DEPTHS, PROVIDE AN ADDITIONAL FOOT OF SEPARATION FOR EACH ADDITIONAL FOOT OF DEPTH. THE 18-INCH SEPARATION REQUIREMENT APPLIES WHEN THE STORM PIPE CROSSES ABOVE THE OCU MAIN, AND WHEN THE STORM PIPE HAS A DIAMETER EQUAL TO OR GREATER THAN 24 INCHES. OTHERWISE, THE REQUIRED SEPARATION IS 12 INCHES.
- THIS SEPARATION REQUIREMENT COMPLIES WITH MINIMUM FDEP SEPARATION REQUIREMENTS OUTLINED IN 62-555.314, FAC. VARIANCES FROM THE FDEP REQUIREMENTS MUST COMPLY WITH 62-555.314(5), FAC AND MUST BE APPROVED INDIVIDUALLY BY BOTH FDEP AND OCU.
- DISTANCES GIVEN ARE FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
- NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF SANITARY OR STORM WATER MANHOLE OR STRUCTURE.

ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL

APPENDIX A STANDARD DRAWINGS GENERAL

DATE: February 11, 2011

SERVICE LATERAL **FIGURE A305**

R/W

WYE WITH 6" BRANCH 6" 45° BEND

SEWER MAIN SIZE VARIES

CLEAN-OUT (TYP)

DOUBLE WYE WITH 6" BRANCH

LOT LINE

(TYP.) BUILDER'S PLUMBER (SEE NOTE 7)

CURB (SEE NOTE 4)

PLAN NTS (TYP.) TEMP. PLUG (SEE NOTES 2 AND 7)

R/W

STAKE TO SHOW LOCATION OF TEMPORARY PLUG (TYP.)

SLOPE TO TERMINAL DEPTH @ 1.0% MIN (TYP.)

FINISHED GRADE

ROTATE 30° (TYP.)

TEMP PLUG (TYP.) (SEE NOTES 2 AND 7)

SINGLE LATERAL

DOUBLE LATERAL

SPRING LINE

SEWER MAIN

LOCATOR BALL 6" MAX BELOW PIPE (TYP) SEE NOTE 4

3" MIN (SEE NOTE 3)

PROFILE NTS

NOTES:

- INVERT OF SERVICE LATERAL SHALL NOT ENTER SEWER MAIN BELOW SPRING LINE.
- SERVICE LATERAL SHALL BE CAPPED BY DEVELOPER'S SITE-WORK CONTRACTOR.
- WYE TO BE NO SHALLOWER THAN 3-FEET AND NO DEEPER THAN 5-FEET.
- LOCATOR BALLS TO BE INSTALLED BY DEVELOPER'S SITE-WORK CONTRACTOR, ONE PER SERVICE.
- ALL FITTINGS SHOWN ARE TO BE INSTALLED.
- SERVICE CONNECTIONS SHALL BE PERMANENTLY MARKED BY CUTTING AN "S" IN THE CURB DIRECTLY OVER THE LATERAL.
- BUILDER'S PLUMBER WILL REMOVE PLUG, INSTALL CLEANOUT, AND CONNECT SERVICE LATERAL TO HOUSE.

ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL

APPENDIX A STANDARD DRAWINGS GENERAL

DATE: February 11, 2011

TYPICAL VALVE BOX COVER **FIGURE A110**

RECLAIMED WATER

TYPICAL LOCKING BOLT

RECLAIMED

SEWER

POTABLE WATER

NOTE:

- LOCKING LIDS ARE REQUIRED ON ALL VALVE BOXES.

ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL

APPENDIX A STANDARD DRAWINGS GENERAL

DATE: February 11, 2011

PIPE LOCATING WIRE **FIGURE A114**

LOCATING WIRE

FINISHED GRADE

WATER, WASTEWATER, OR RECLAIMED MAIN

NYLON STRAPS, 3 PER JOINT (SEE NOTE 1)

LOCATING WIRE

NOTES:

- ALL PIPE SHALL REQUIRE INSULATED LOCATING WIRE (10 GAUGE SOLID COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE WRAPPED WITH NYLON STRAPS TO TOP CENTERLINE OF THE PIPE.
- LOCATING WIRE SHALL BE CONTINUOUS INSIDE VALVE BOXES AND SHALL EXTEND 12" ABOVE TOP OF COLLAR.
- WIRE INSULATION SHALL BE COLOR CODED FOR THE TYPE OF PIPE BEING INSTALLED.

ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL

APPENDIX A STANDARD DRAWINGS GENERAL

DATE: February 11, 2011

GATE VALVE AND BOX WATER AND RECLAIMED WATER MAINS **FIGURE A107**

DRILL HOLE IN BOX 3/4" FROM TOP

SET TOP OF VALVE BOX TO FINISHED GRADE

LOOP WIRE (SEE NOTE 4)

VALVE BOX PAD (SEE FIGURE A112)

ADJUSTABLE SCREW TYPE DUCTILE IRON VALVE BOX

SEE NOTE 2

ALIGNMENT RING

RESILIENT SEAT M. J. GATE VALVE

LOCATING WIRE

6" FDOT #57 STONE

VALVE BOX SHALL REST ON BEDDING ROCK NOT ON VALVE OR PIPE AND SHALL BE CENTERED ON OPERATING NUT

NOTES:

- PVC PIPE OR DUCTILE IRON PIPE EXTENSIONS SHALL NOT BE USED ON VALVE BOX INSTALLATION.
- THE VALVE ACTUATING NUT SHALL BE EXTENDED TO BE WITHIN 3' OF FINISHED GRADE.
- PROVIDE A PLASTIC DEBRIS SHIELD / ALIGNMENT RING WHICH INSTALLS BELOW THE VALVE ACTUATING NUT. THIS SHIELD SHALL CENTER THE RISER PIPE BOX OVER THE ACTUATING NUT AND MINIMIZE INFILTRATION.
- LOCATING WIRE SHALL BE CONTINUOUS WITH NO SPLICES AND SHALL EXTEND 12" ABOVE TOP OF COLLAR. WIRE SHALL BE COLOR CODED TO MATCH THE UTILITY INSTALLED.
- FOR NEW CONSTRUCTION, THE VALVE BOX SHALL BE ADJUSTED TO MIDRANGE TO ALLOW FOR FUTURE BOX ADJUSTMENTS.
- REFER TO FIGURE A111 FOR INSTALLATIONS AT A DEPTH OF 6' OR GREATER.

ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL

APPENDIX A STANDARD DRAWINGS GENERAL

DATE: February 11, 2011

BEDDING AND TRENCHING - TYPE A **FIGURE A101**

TRENCH WIDTH VARIES W/ SIZE OF PIPE

FINISHED GRADE

COMMON FILL

12" (TYP)

SELECT COMMON FILL

BEDDING MATERIAL

UNDISTURBED EARTH

SEE NOTE 4

PIPE O.D.

12" LIFTS MAXIMUM (SEE NOTE 2)

TRENCH BACKFILL (SEE NOTE 2)

INITIAL BACKFILL

HAUNCHING

BEDDING (SEE NOTES 7 & 8)

UNDISTURBED EARTH

NOTES:

- INITIAL BACKFILL: SELECT COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
- TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
- TYPE A BEDDING MATERIAL SHALL CONFORM TO FDOT NO. 57 AGGREGATE.
- 15" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX (12" MIN) FOR PIPE DIAMETER 24" AND LARGER.
- WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
- ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
- BEDDING DEPTH SHALL BE 4" MINIMUM FOR PIPE DIAMETER UP TO 12" AND 6" MINIMUM FOR PIPE DIAMETER 16" AND LARGER.
- DEPTH FOR REMOVAL OF UNSUITABLE MATERIAL SHALL GOVERN DEPTH OF BEDDING ROCK BELOW THE PIPE. UTILITIES SHALL DETERMINE IN THE FIELD REQUIRED REMOVAL OF UNSUITABLE MATERIAL TO REACH SUITABLE FOUNDATION.
- FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN ORANGE COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF R/W UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.

ORANGE COUNTY UTILITIES STANDARDS AND CONSTRUCTION SPECIFICATIONS MANUAL

APPENDIX A STANDARD DRAWINGS GENERAL

DATE: February 11, 2011

BEDDING AND TRENCHING - TYPE B **FIGURE A102**

TRENCH WIDTH VARIES W/ SIZE OF PIPE

FINISHED GRADE

COMMON FILL

12" (TYP)

SELECT COMMON FILL

UNDISTURBED EARTH (SEE NOTE 3)

SEE NOTE 4

PIPE O.D.

12" LIFTS MAXIMUM (SEE NOTE 2)

TRENCH BACKFILL (SEE NOTE 2)

INITIAL BACKFILL

HAUNCHING

UNDISTURBED EARTH

NOTES:

- INITIAL BACKFILL AND HAUNCHING: SELECT COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
- TRENCH BACKFILL: COMMON FILL COMPACTED TO 95% (98% UNDER PAVEMENT) OF THE MAXIMUM DENSITY AS PER AASHTO T-180.
- PIPE BEDDING UTILIZING SELECT COMMON FILL OR BEDDING ROCK IN ACCORDANCE WITH TYPE A BEDDING AND TRENCHING DETAIL MAY BE REQUIRED AS DIRECTED BY UTILITIES.
- 15" MAX. (12" MIN.) FOR PIPE DIAMETER LESS THAN 24" AND 24" MAX (12" MIN) FOR PIPE DIAMETER 24" AND LARGER.
- WATER SHALL NOT BE PERMITTED IN THE TRENCH DURING CONSTRUCTION.
- ALL PIPE TO BE INSTALLED WITH BELL FACING UPSTREAM TO THE DIRECTION OF THE FLOW.
- FINAL RESTORATION IN IMPROVED AREAS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF GOVERNING AGENCIES. SURFACE RESTORATION WITHIN ORANGE COUNTY RIGHT-OF-WAY SHALL COMPLY WITH REQUIREMENTS OF RIGHT-OF-WAY UTILIZATION REGULATIONS AND ROAD CONSTRUCTION SPECIFICATIONS.

ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)

CONSULTANTS

DRAWING TITLE

SITE DETAILS

PROJECT NO. 17-109

PHASE PERMIT SET

SCALE

FILE NAME

DRAWN BY D. FORBOTH

CHECKED BY M. KALAGICH

DATE 04-05-2018

PROJECT ADDRESS 401 W. COLONIAL DR. ORLANDO, FLORIDA 32808

OWNER NAME AND ADDRESS ORANGE COUNTY PARKS 400 E. SOUTH STREET 5TH FLOOR ORLANDO, FLORIDA 32801

DATE 04-05-2018

SIGNATURE AND DATED SEAL

M.A.I.D. KALAGICH

PE-11046

BORRELLI PARTNERS ARCHITECTURE ENGINEERING INTERIORS 770 VASSAR STREET SUITE 200 ORLANDO, FLORIDA 32801

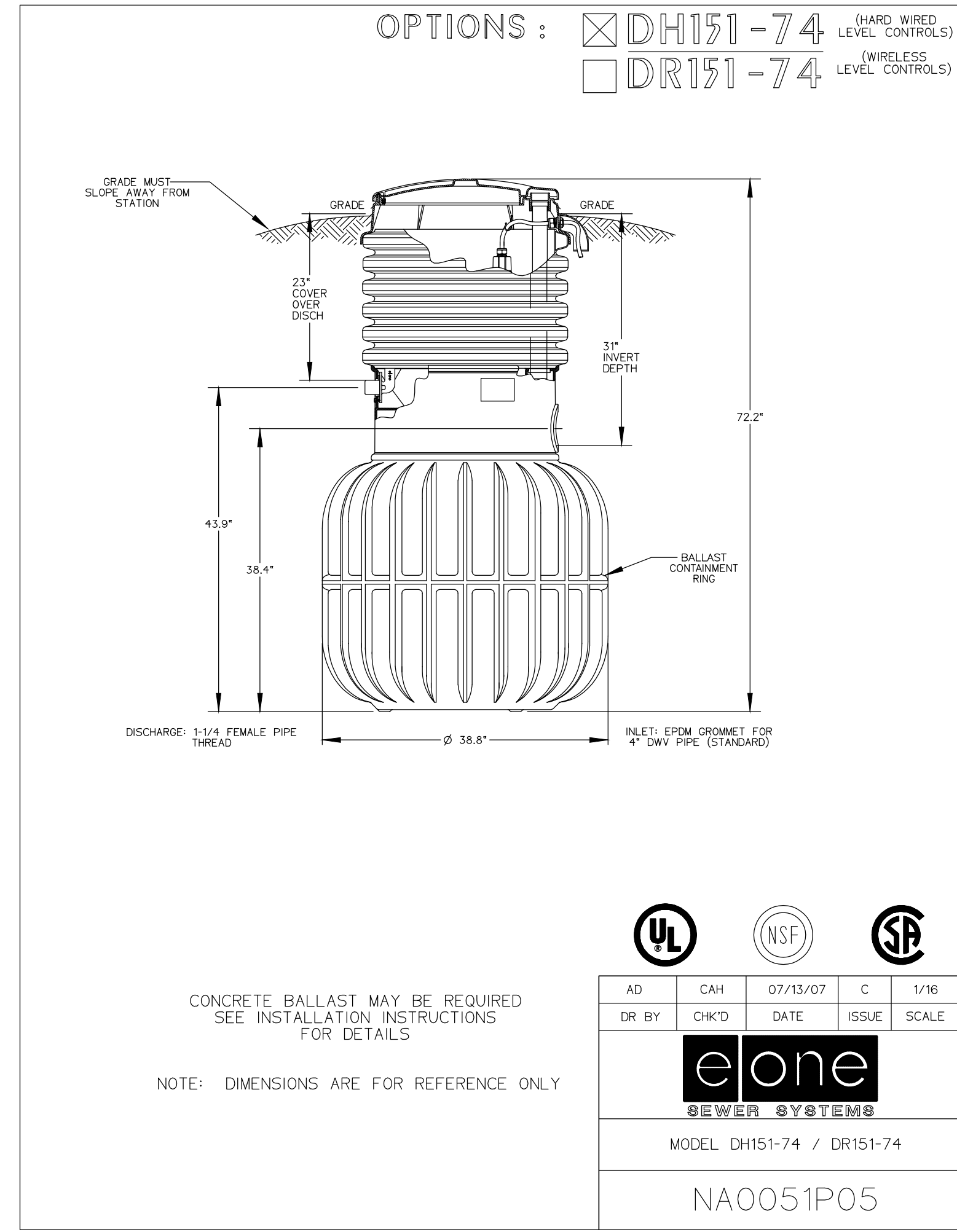
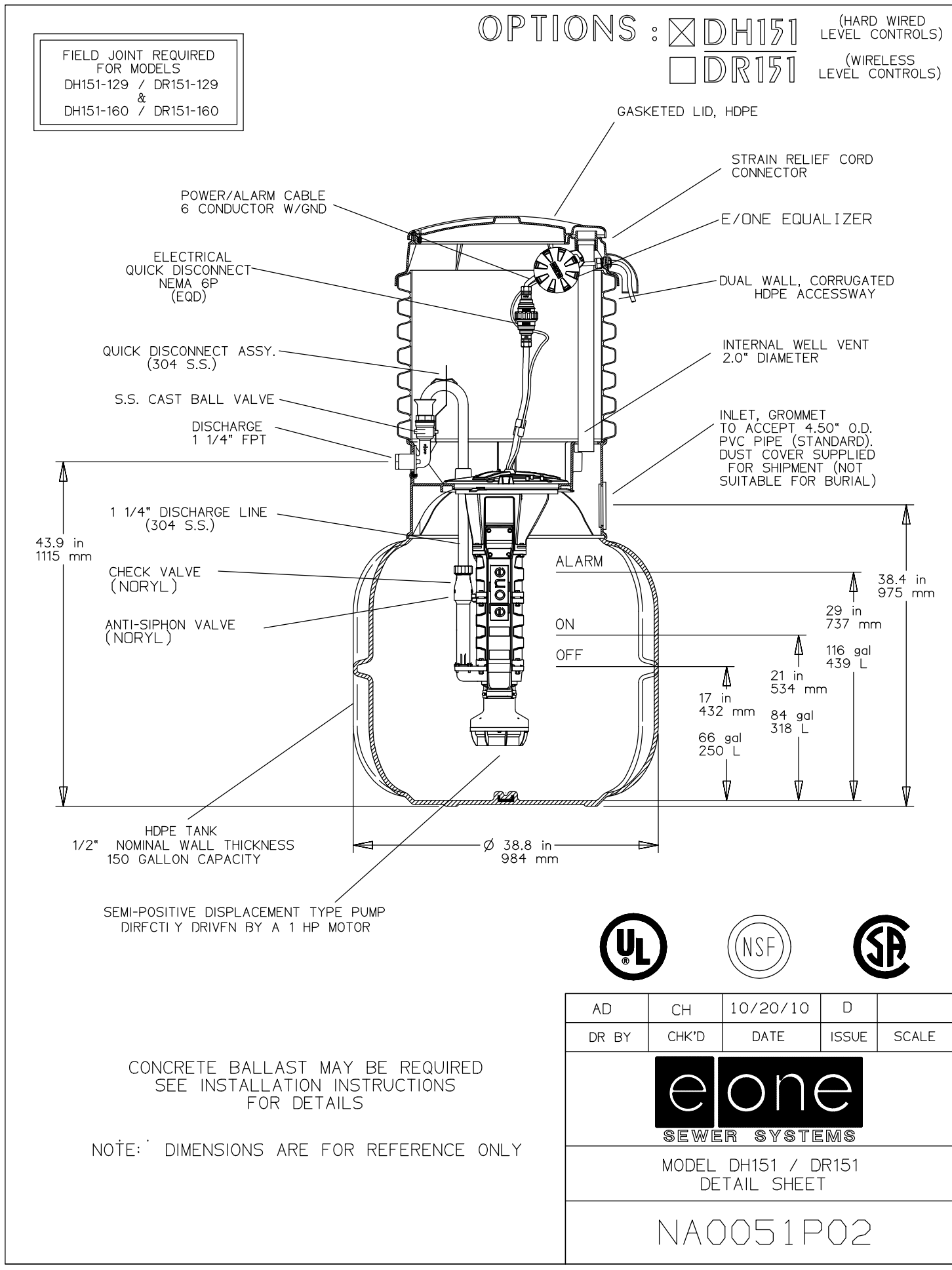
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URBAN DESIGN PLANNING ENGINEERING

SK Consortium, Inc.

1053 N. ORLANDO AVE. SUITE 3 MAITLAND FLORIDA 32751
 TELEPHONE 407-629-4288 FACSIMILE 407-629-1656 EB# 7080

C401



PUMP DATA		ELEVATIONS	
PRIMARY PUMP CAPACITY	11 GPM	TOP OF WETWELL	93.00
PRIMARY TDH	43' TDH	INLET INVERT	90.4
PUMP MANUFACTURER	E-ONE	HIGH LEVEL ALARM	
PUMP MODEL #	DR151-74	2nd PUMP ON	
R.P.M.	3450	1st PUMP ON	
HORSEPOWER	1	PUMPS OFF	
ELECTRICAL/ VOLTS / PHASE	120V/1	BOTTOM OF WETWELL	
PUMP DISCHARGE SIZE	1.25"	WETWELL DIAMETER	
IMPELLER DIAMETER			

GENERAL NOTE:
LIFT STATION WILL BE DESIGNED, FURNISHED AND INSTALLED BY E-ONE. BAFFLE AND CONCRETE BLAST WILL BE REQUIRED.

URBAN DESIGN PLANNING ENGINEERING
SK Consortium, Inc.
1053 N. ORLANDO AVE. SUITE 3 MAITLAND FLORIDA 32751
TELEPHONE 407-629-4288 FACSIMILE 407-629-1656 EB# 7080

ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)

CONSULTANTS: SIGNATURE AND DATED SEAL

BORRELLI PARTNERS
ARCHITECTS AND ENGINEERS
770 VASSAR STREET
ORLANDO, FLORIDA 32814-1513
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PE 11046
M.A.I.D. KALAGICH

DRAWING TITLE: LIFT STATION DETAIL

PROJECT NO.	17-109
PHASE	PERMIT SET
SCALE	
FILE NAME	
DRAWN BY	D. FORBOTH
CHECKED BY	M. KALAGICH
DATE	04-05-2018

PROJECT ADDRESS: 4801 W. COLONIAL DR. ORLANDO, FLORIDA 32809

OWNER NAME AND ADDRESS: ORANGE COUNTY PARKS, 400 E. SOUTH STREET, 5TH FLOOR, ORLANDO, FLORIDA 32801

C402

FLOOR CONSTRUCTION: 6" THICK STRUCTURAL SLAB ON GRADE BEAMS WITH #4 AT 12" ON CENTER EACH WAY, CENTERED IN SLAB, ON 15 MIL OLEFIN VAPOR BARRIER WITH 6" OVERLAP ON TERMITE TREATED 95% COMPACTED FILL. F'c28 = 4,000 PSI

TOP OF SLAB REFERENCE ELEVATION = 0'-0"

FLAIR SLOPED SLABS AT MAN & ROLL UP DOORS TO PROVIDE A FLUSH THRESHOLD WITH SLAB AT OTHER SIDE.

TOP OF GRADE BEAM ELEVATION -0'-8" UNLESS OTHERWISE NOTED.

■ INDICATES #5 VERTICAL MASONRY WALL REINFORCING—SEE MASONRY WALL REINFORCING SCHEDULE ON S101 FOR REINFORCING IN ADDITION TO THAT SCHEDULED. REINF. WALLS ACCORDING TO MW4.0 U.N.O.

□ INDICATES #5 VERTICAL MASONRY WALL REINFORCING @ 2'-0" OC MAX SPACING BELOW AND ABOVE OPENING.

MASONRY WALLS ARE 8" NORMAL WT BLOCK TYPICAL. COORDINATE WITH ARCHITECTURAL DWGS FOR SPLIT FACE BLOCK LOCATIONS.
DIMENSIONS SHOWN ON STRUCTURAL FOR REFERENCE ONLY—SEE ARCHITECTURAL DWGS FOR DIMENSIONS—IMMEDIATELY NOTIFY ARCHITECT OF ANY DISCREPANCIES.

USE NOTE 2 RIGID TIE AT TYPICAL MASONRY WALL INTERSECTION IF MASONRY NOT INTERLOCKED EXCEPT USE NOTE 1 ADJUSTABLE MASONRY TIE WHERE INDICATED—SEE DETAILS ON S104.

SEE ROOF FRAMING PLAN AND S101 FOR MASONRY WALL LINTELS.

SEE PLUMBING PLANS FOR FLOOR DRAIN LOCATIONS — SLOPE SLAB TO DRAINS.

PROVIDE HOUSEKEEPING PADS AT EQUIPMENT AS PER MECHANICAL AND PLUMBING DWGS. AND SPECIFICATIONS.

CONTRACTOR TO COORDINATE WITH CIVIL, MECHANICAL, ELECTRICAL AND PLUMBING PIPING AND CONDUIT—TO PASS BELOW GRADE BEAMS.

COMPONENT NOMINAL (ASD) WIND LOAD ON OPENINGS

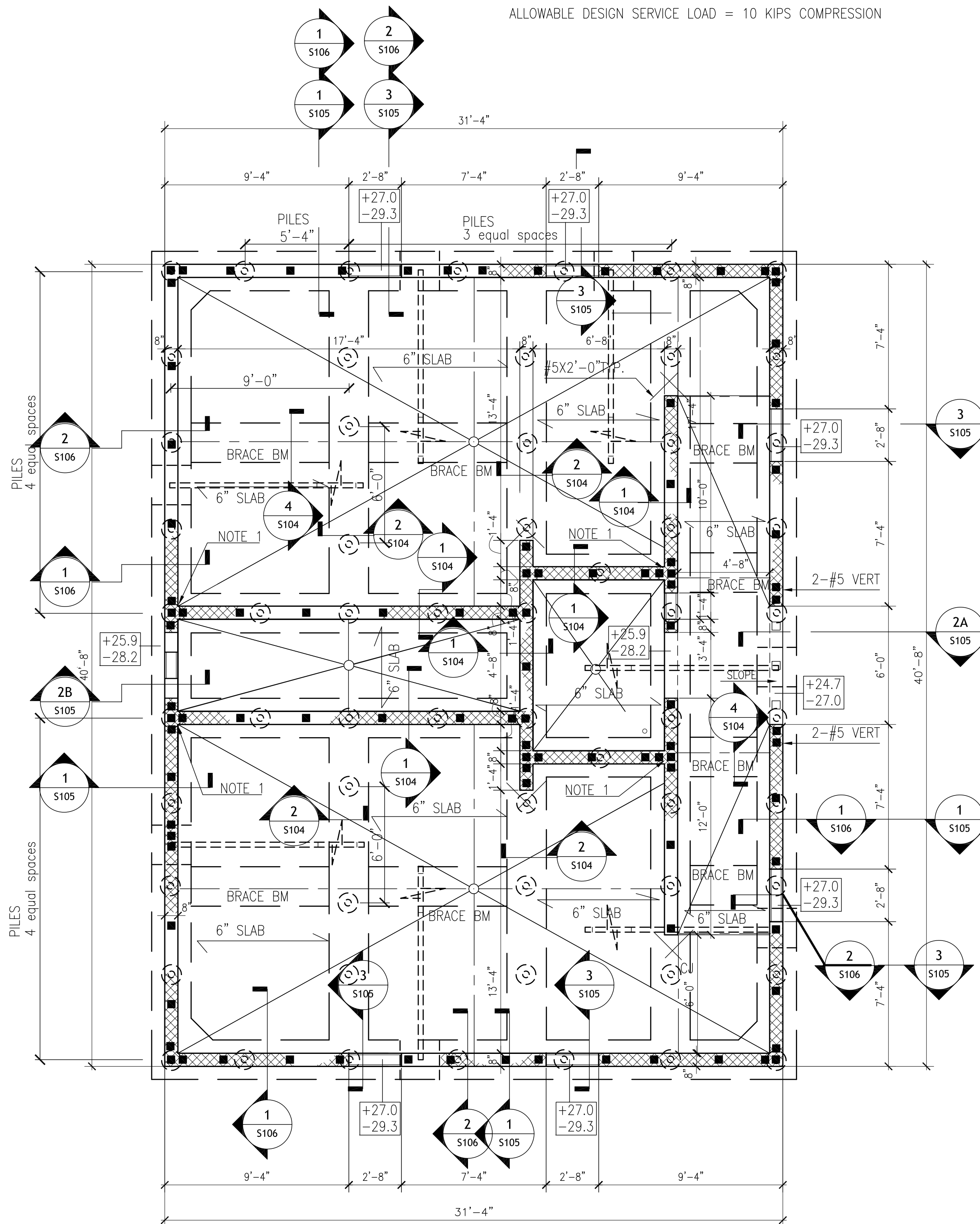
+24.5 INDICATES COMPONENT WIND LOAD ON OPENINGS IN PSF
-26.7 + INDICATES PRESSURE ; - INDICATES SUCTION

*** MASONRY WALLS — PATCH ANY HOLES IN EXPOSED MASONRY UNITS TO MATCH TEXTURE OF SURROUNDING MASONRY AND FLUSH TO EXISTING SURFACE. ***

PROVIDE #5 VERTICAL IN CONCRETE FILLED CELLS AT 2'-0" ON CENTER MAXIMUM SPACING BELOW WINDOW OPENINGS U.N.O.
AND PROVIDE #5 KNOCK-OUT BLOCK BOND BEAM BELOW WINDOW OPENINGS EXTENDING BEAM REINFORCING 2'-0" BEYOND SIDES OF OPENING, U.N.O.

SEE S104 AND S106 FOR FOUNDATION DETAILS.

-----> BATTERED HELICAL PILE SEE 2/S106 FOR ALLOWABLE DESIGN SERVICE LOAD = 7 KIPS COMPRESSION/TENSION
○ VERTICAL HELICAL PILE - SEE 1/S106 ALLOWABLE DESIGN SERVICE LOAD = 10 KIPS COMPRESSION



1 FOUNDATION PLAN
S102 1/4"=1'-0" →

ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)

BORRELL PARTNERS
ARCHITECTS
780 VASSAR STREET
ORLANDO, FL 32804 (407) 418-1338
CONSTRUCTION OF THE BARNETT PARK RESTROOMS BUILDING (Y17-812) IS THE PROPERTY OF BORRELL PARTNERS ARCHITECTS AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.

C. Louis
STRUCTURAL ENGINEERS
901 Douglas Avenue Suite 203
Altamonte Springs Florida 32714
407/869-5533
FL Certificate of Authorization No. 6453
CLOUISINC@AOL.COM

FOUNDATION PLAN

REV.	DESCRIPTION	DATE	PROJECT ADDRESS
17-109	PERMIT SET		4801 W. COLONIAL DR. ORLANDO, FLORIDA 32808
	CAD FILE		OWNER NAME AND ADDRESS ORANGE COUNTY PARKS 400 E. 50TH STREET 5TH FLOOR ORLANDO, FLORIDA 32801
	CLS		
	CLC		
	DATE	04-05-18	

S-102

ROOF CONSTRUCTION: 5/8" THICK CDX EXTERIOR PLYWOOD SHEATHING ON PREMANUFACTURED WOOD TRUSSES SPACED AT 2'-0" ON CENTER MAXIMUM. ATTACH SHEATHING WITH 8d GALV RING-SHANKED NAILS SPACED AT 4" ON CENTER AT EDGES AND 6" ON CENTER AT INTERMEDIATE SUPPORTS.

NSTALL 2X4 TRUSS BOTTOM CHORD BLOCKING TO BRACE TOILET PARTITIONS.
 PROVIDE VAPOR BARRIER AT TRUSS BEARING ON MASONRY - TYPICAL.

PRE-MANUFACTURED WOOD TRUSS DESIGN LOADS:

TOP CHORD:
 DL: 11 PSF
 LL: 20 PSF

BOTTOM CHORD:
 DL: 19 PSF
 LL: 0 PSF
 19 PSF
 50 PSF TOTAL DESIGN LOAD

DL FOR TRUSS WIND UPLIFT CALCULATIONS TO BE 10 PSF (NOT INCLUDING 3/8 SAFETY FACTOR).

INSTALL PLYWOOD WITH A MINIMUM 2'-0" OFFSET IN PLYWOOD JOINTS.

PLYCLIPS SHALL BE USED BETWEEN ALL UNSUPPORTED EDGES OF PLYWOOD ROOF DECK. INSTALL ONE (1) PER SPAN.

PLYWOOD ROOF DECK SHALL BE INSTALLED WITH THE LONG DIMENSION PERPENDICULAR TO ROOF TRUSSES.

SEE ARCHITECTURAL DRAWINGS FOR OPENING DIMENSIONS AND LOCATIONS.

ALL ROOF FASTENERS AND CONNECTORS TO BE GALVANIZED OR STAINLESS STEEL.

T1 TYPICAL ROOF TRUSS ANCHOR EXCEPT AS NOTED SEE SCHEDULE ON SHEET S101.
 PROVIDE ANCHORS AT INTERIOR MASONRY WALLS AS INDICATED.

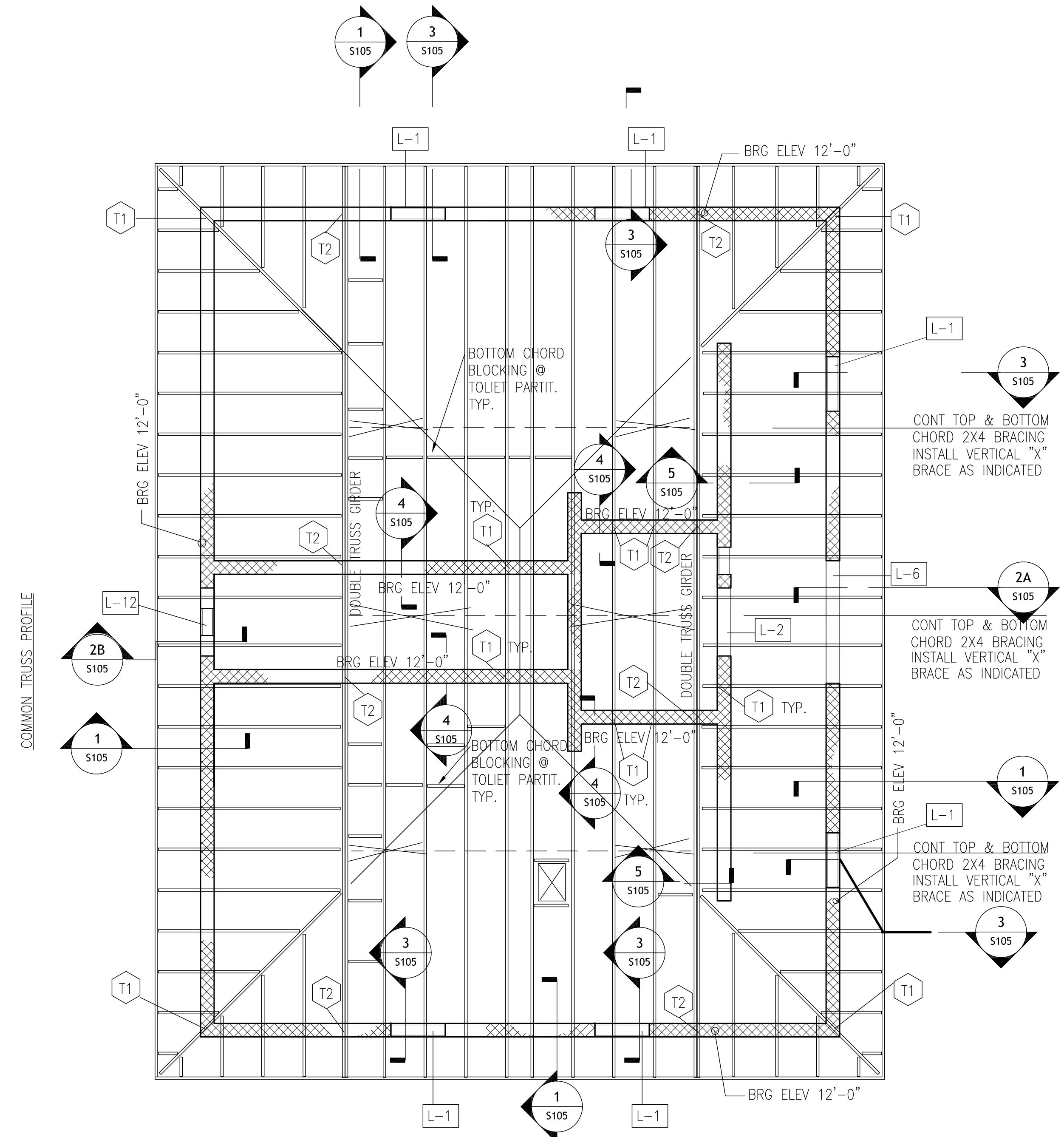
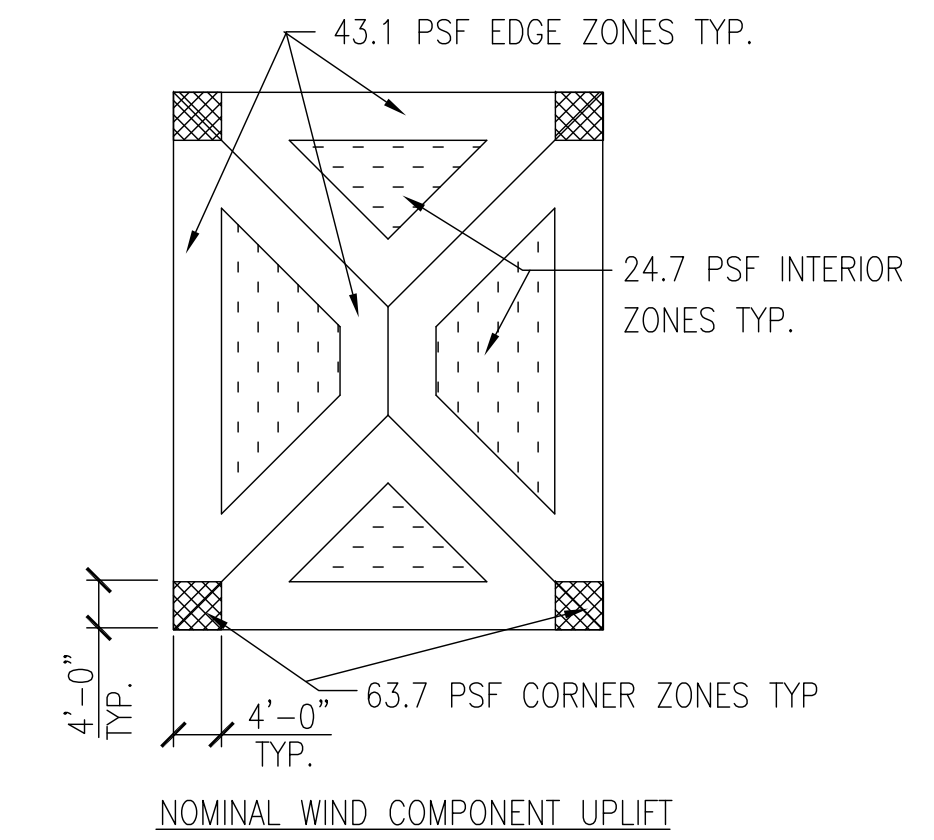
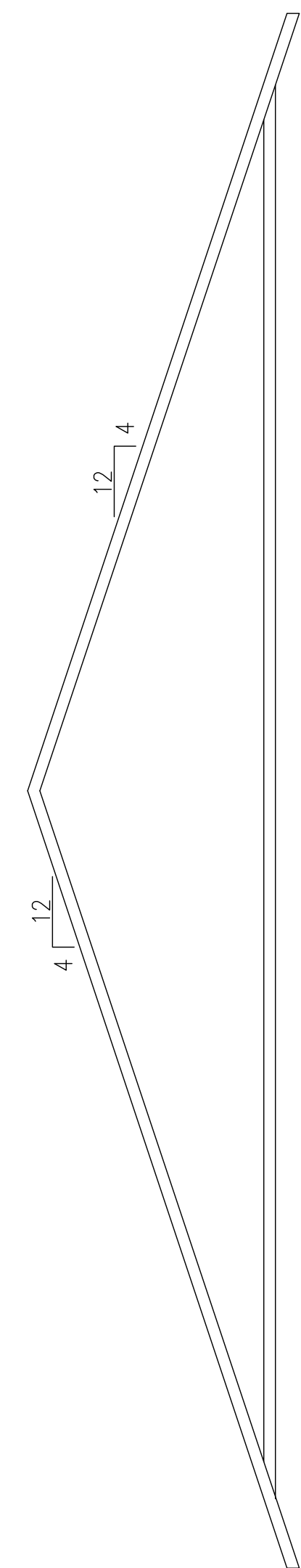
ADD 2X TOP CHORD FRAMING TO BLOCK OUT ROOF OPENINGS AS REQUIRED.

ADD 2X BOTTOM CHORD BLOCKING TO BRACE TOILET PARTITIONS.

L-X INDICATES PRECAST CONCRETE LINTEL ;
 PRECAST LINTELS ARE TO BE POURED COMPOSITE WITH CONTINUOUS BOND BEAMS. SEE DETAILS AND SCHEDULES ON SHEET S101.

PROVIDE CONTINUOUS 8X16 MASONRY BOND BEAM WITH #5 CONT. TOP AND BOTTOM AT TOPS OF ALL WALLS & CONTINUOUS 8X16 BOND BEAM WITH #5 CONT. TOP AND BOTTOM, WITH BOTTOM OF BOND BEAM AT ELEV 7'-4" UNLESS INDICATED OTHERWISE. PROVIDE HOOKED DOWELS AT ALL CORNERS AND "T" SECTIONS.

PROVIDE 90 DEGREE HOOKED DOWELS AT FILL CELLS AT TOP OF MASONRY WALLS TYPICAL.

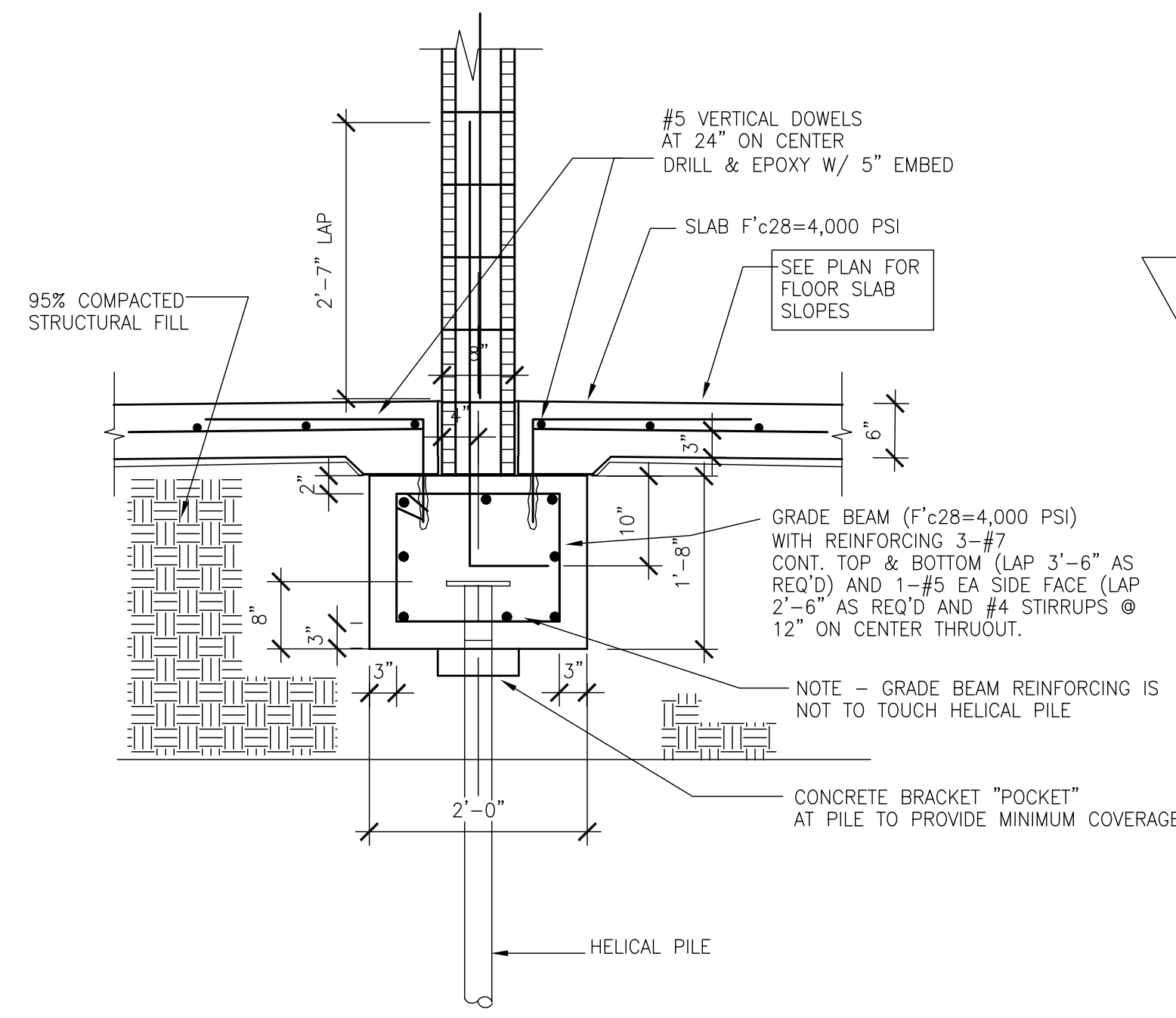


1 S103 1/4"-1'-0" ROOF FRAMING PLAN

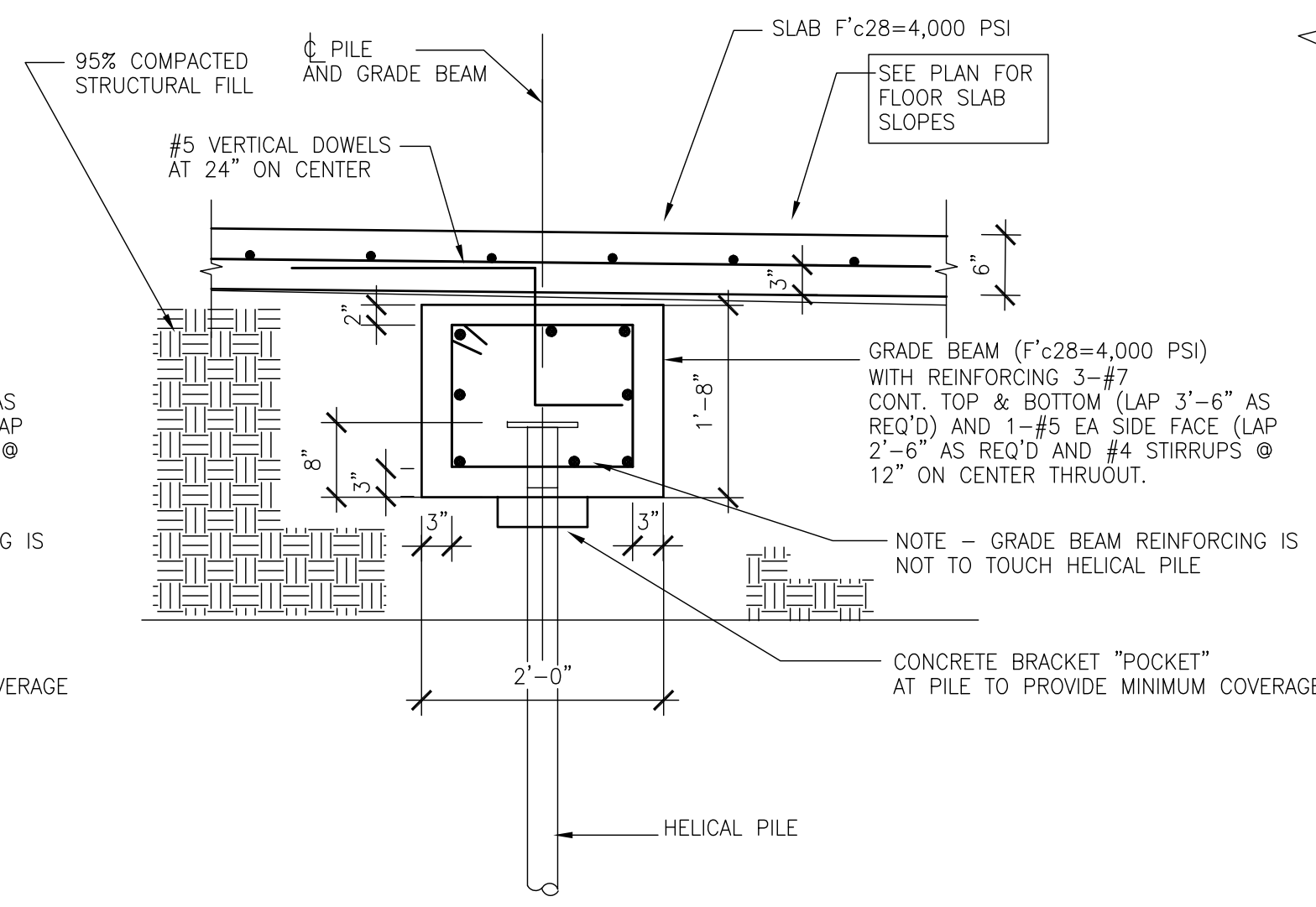
ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)

 BORRELLI PARTNERS ARCHITECTS 730 VILASAR STREET ORLANDO, FL 32804-4071 407-418-1338		SIGNATURE AND DATED SEAL Chris L. Chulavkas #35251
 C. Louis STRUCTURAL ENGINEERS 901 Douglas Avenue Suite 203 Altamonte Springs Florida 32714 407/869-5533 FL Certificate of Authorization No. 6453 CLOUISINC@AOL.COM		CONSULTANTS
ROOF FRAMING PLAN		
PROJECT NO. 17-109 PHASE PERMIT SET SCALE 1/4"=1'-0" FILE NAME CAD FILE DRAWN BY CJS CHECKED BY CLC DATE 04-05-18	PROJECT ADDRESS 4801 W. COLONIAL DR. ORLANDO, FLORIDA 32808	DRAWING TITLE ROOF FRAMING PLAN
OWNER NAME AND ADDRESS ORANGE COUNTY PARKS 400 E. 50TH STREET 5TH FLOOR ORLANDO, FLORIDA 32801		DATE 04-05-18

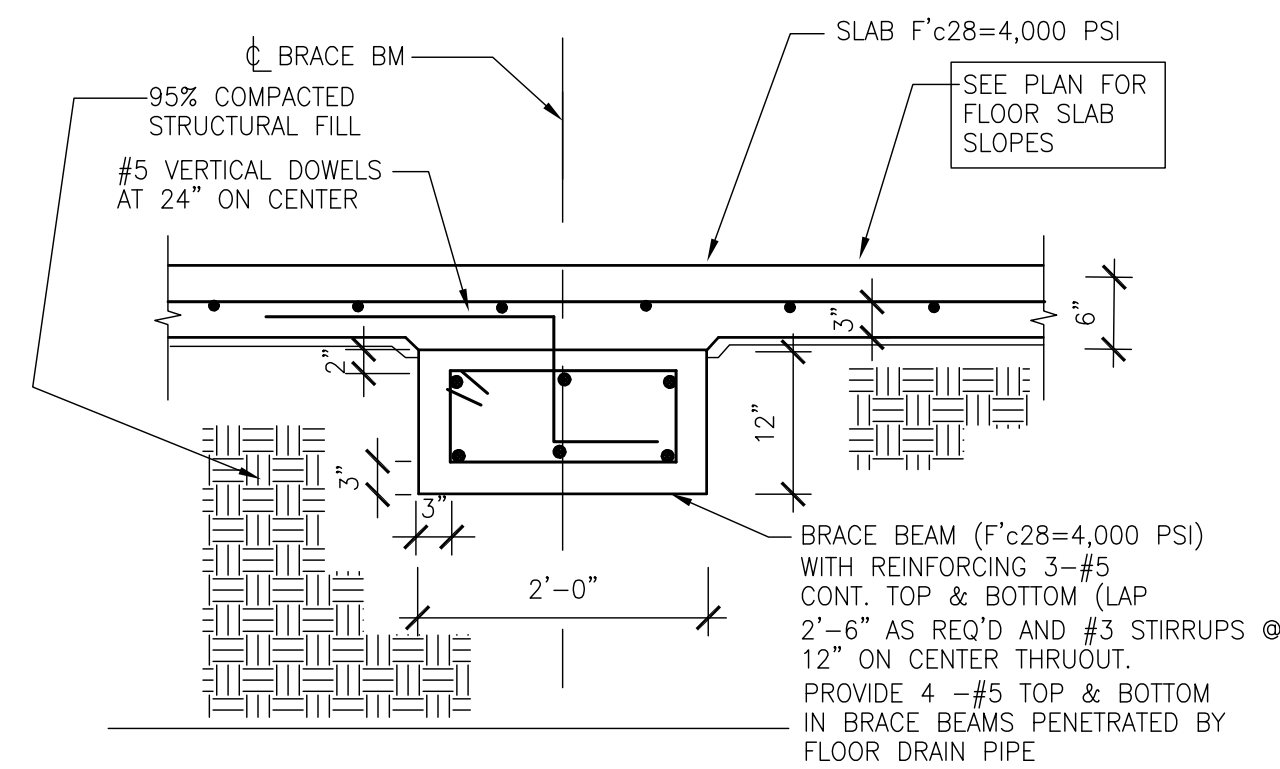
S-103



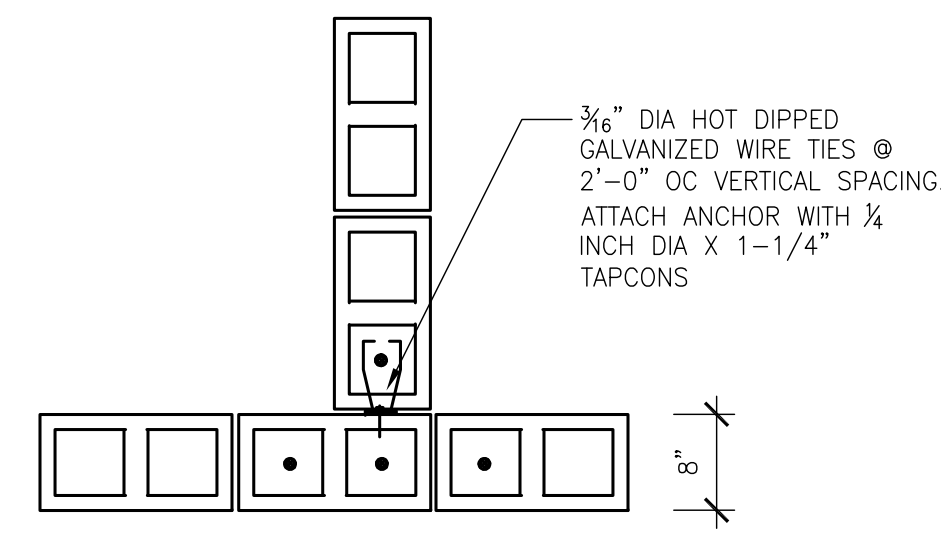
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S104
GRADE BEAM SECTION
SCALE: 3/4"=1'-0"



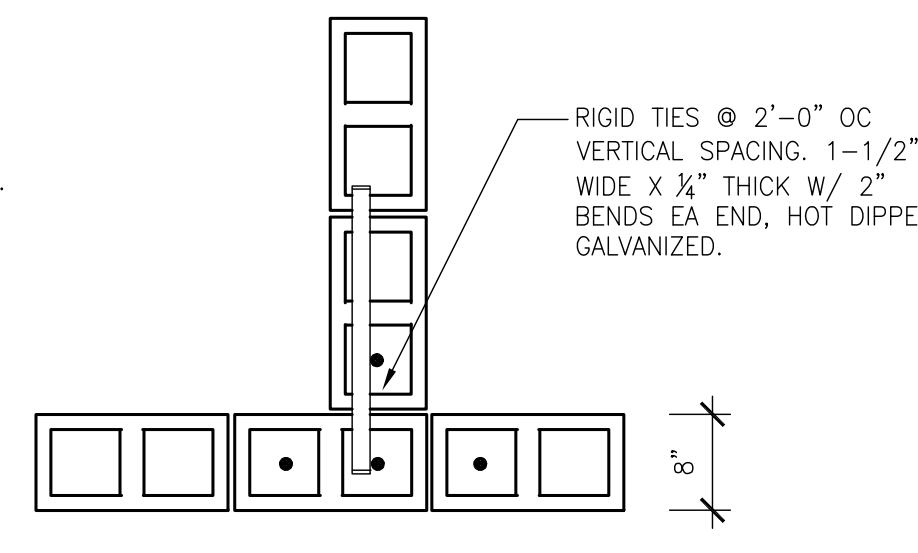
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S104
GRADE BEAM SECTION
SCALE: 3/4"=1'-0"



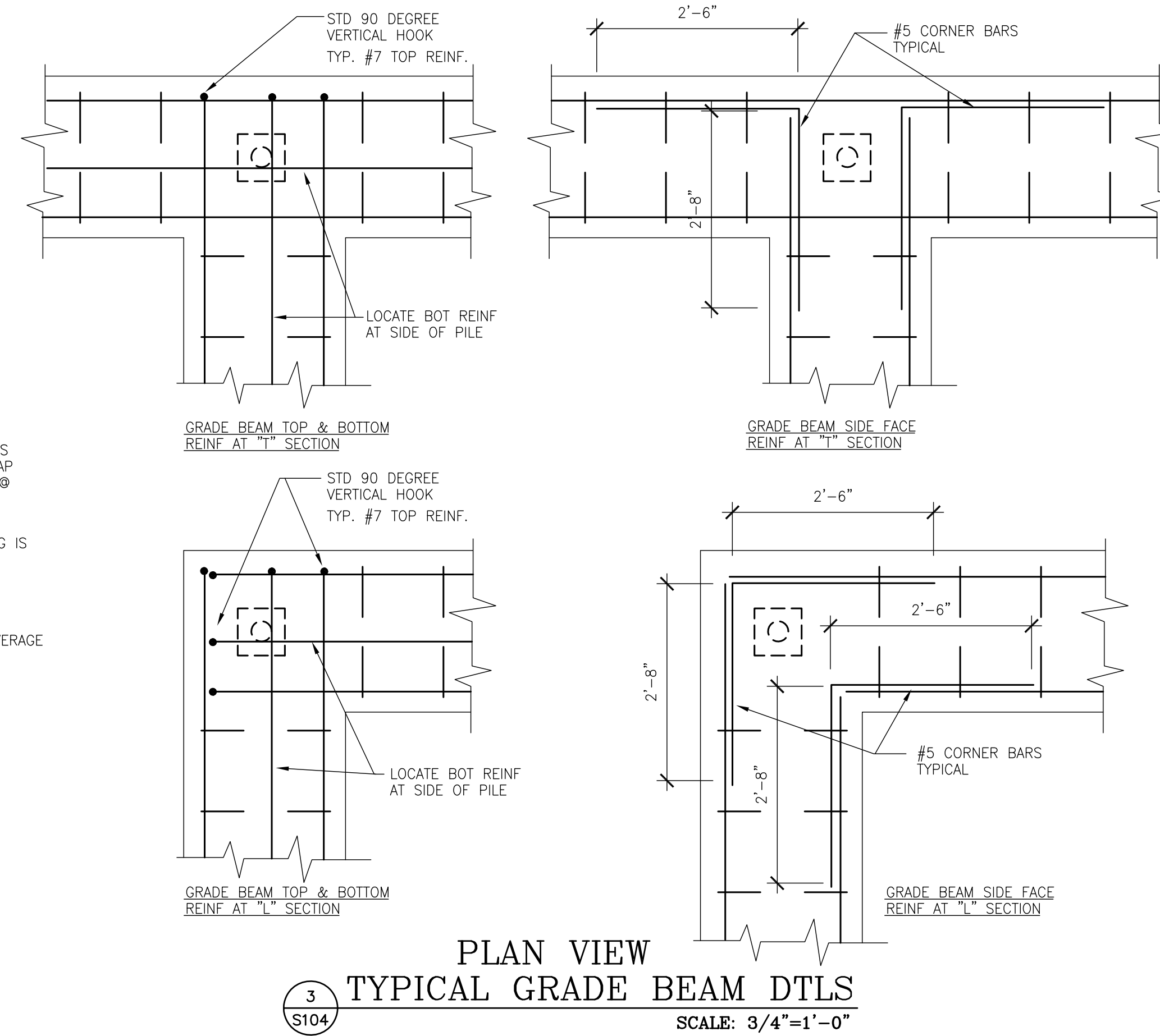
4
S104
BRACE BEAM SECTION
SCALE: 3/4"=1'-0"



5
S104
SECTION
SCALE: 3/4"=1'-0"



6
S104
SECTION
SCALE: 3/4"=1'-0"



3
S104
PLAN VIEW TYPICAL GRADE BEAM DTLs
SCALE: 3/4"=1'-0"

ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)

BORRELL PARTNERS
ARCHITECTS
780 VASSAR STREET
ORLANDO, FL 32804 (407) 418-1338

C. Louis
STRUCTURAL ENGINEERS
901 Douglas Avenue Suite 203
Altamonte Springs Florida 32714
407/869-5533
FL Certificate of Authorization No. 6453
CLOUISINC@AOL.COM

SECTIONS AND DETAILS

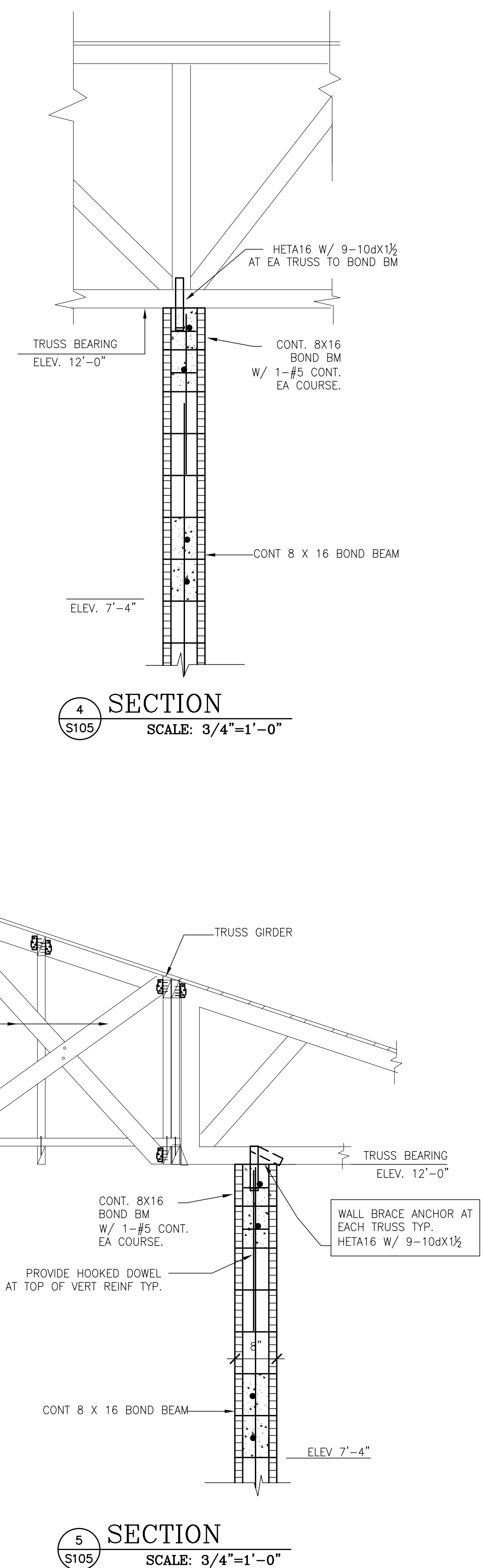
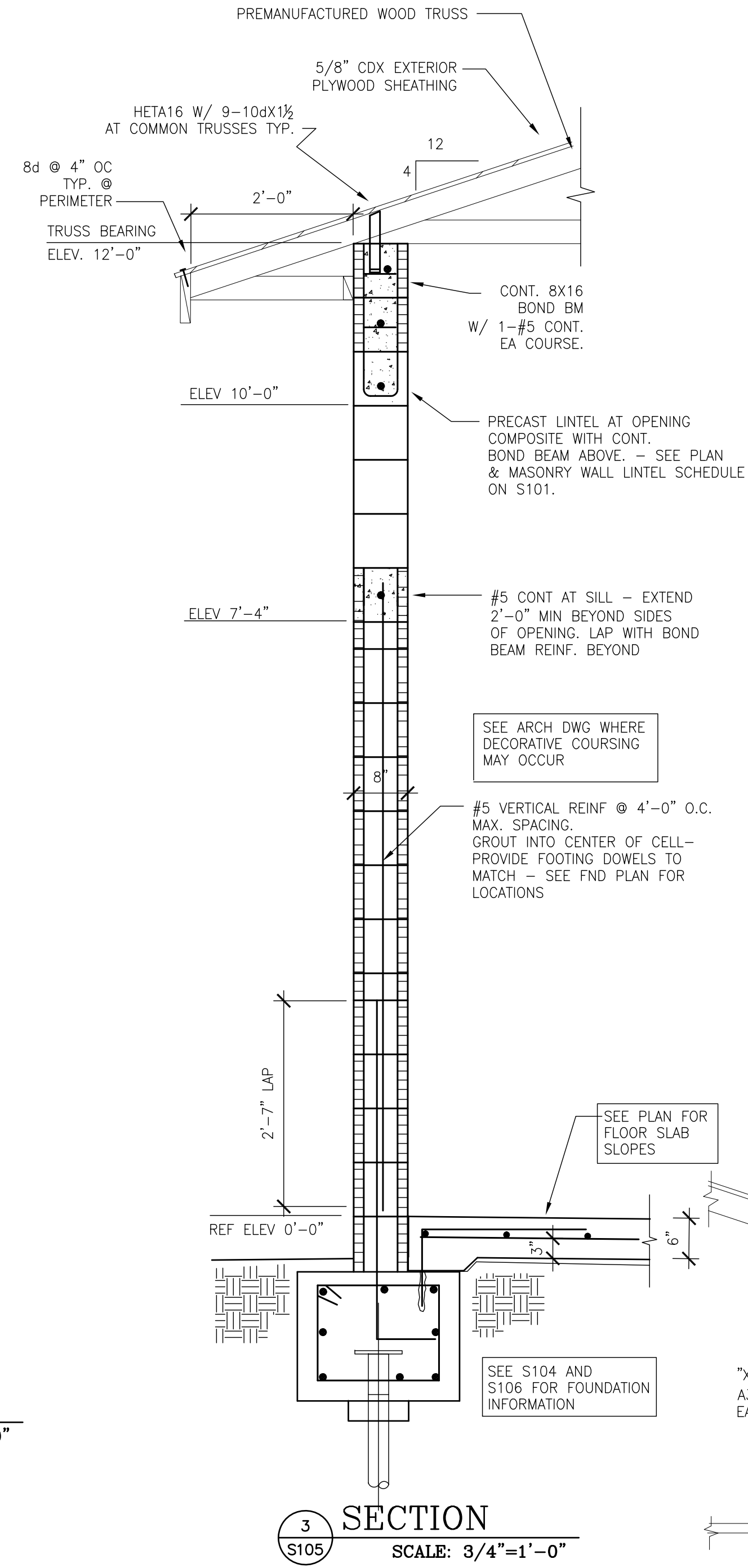
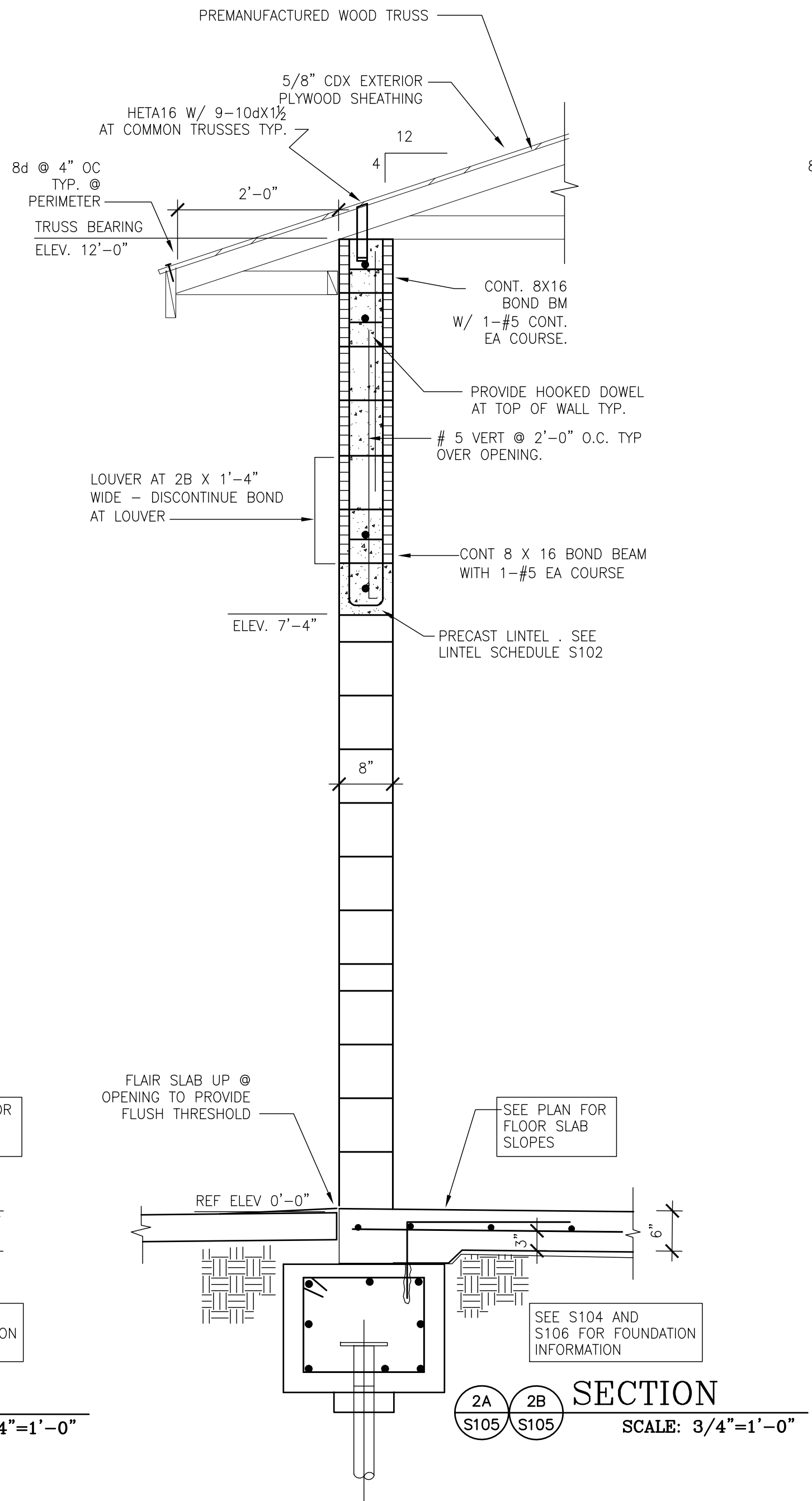
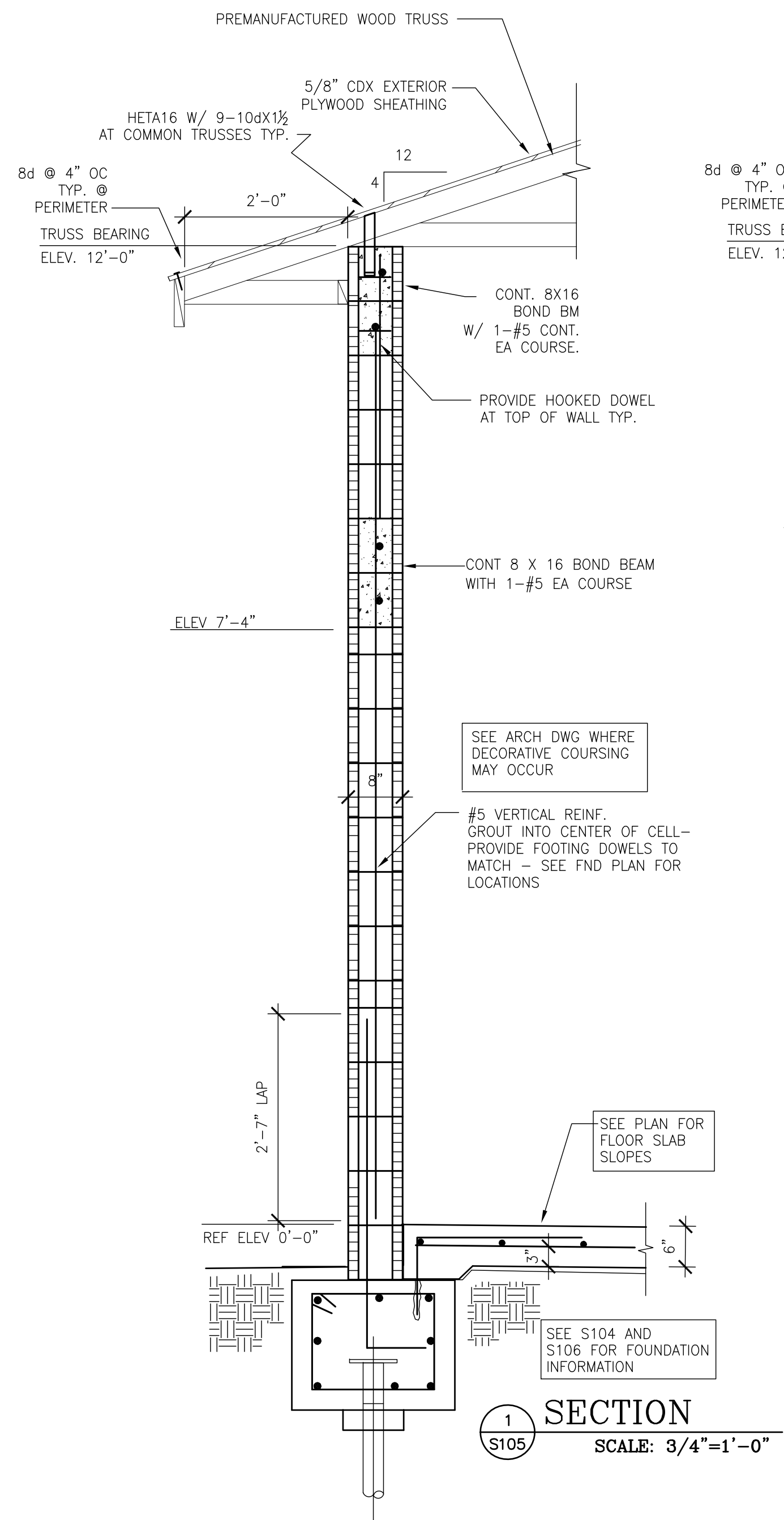
DRAWING TITLE

PROJECT ADDRESS
4801 W. COLONIAL DR.
ORLANDO, FLORIDA 32808

OWNER NAME AND ADDRESS
ORANGE COUNTY PARKS
400 E. 50TH STREET
5TH FLOOR
ORLANDO, FLORIDA 32801

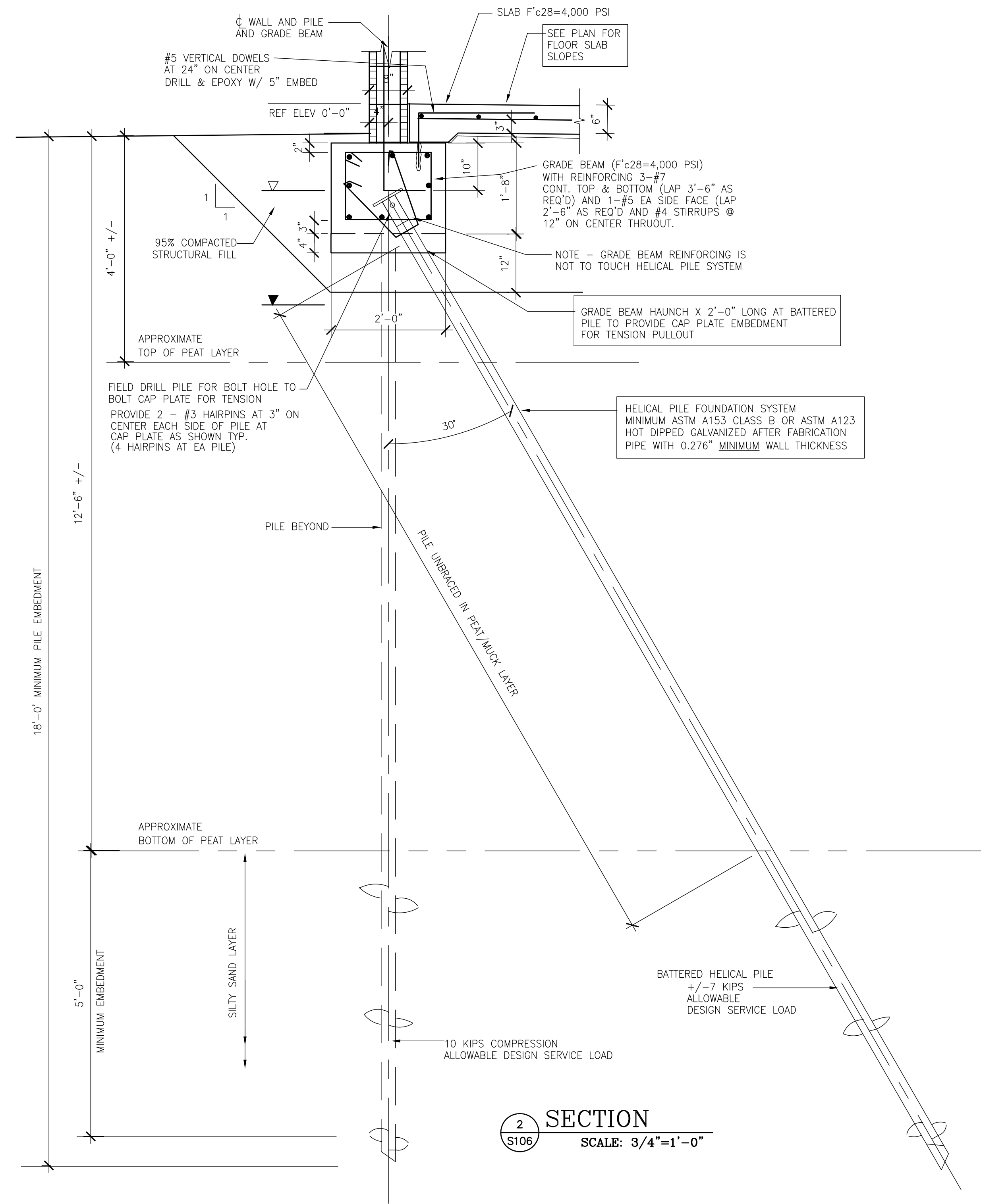
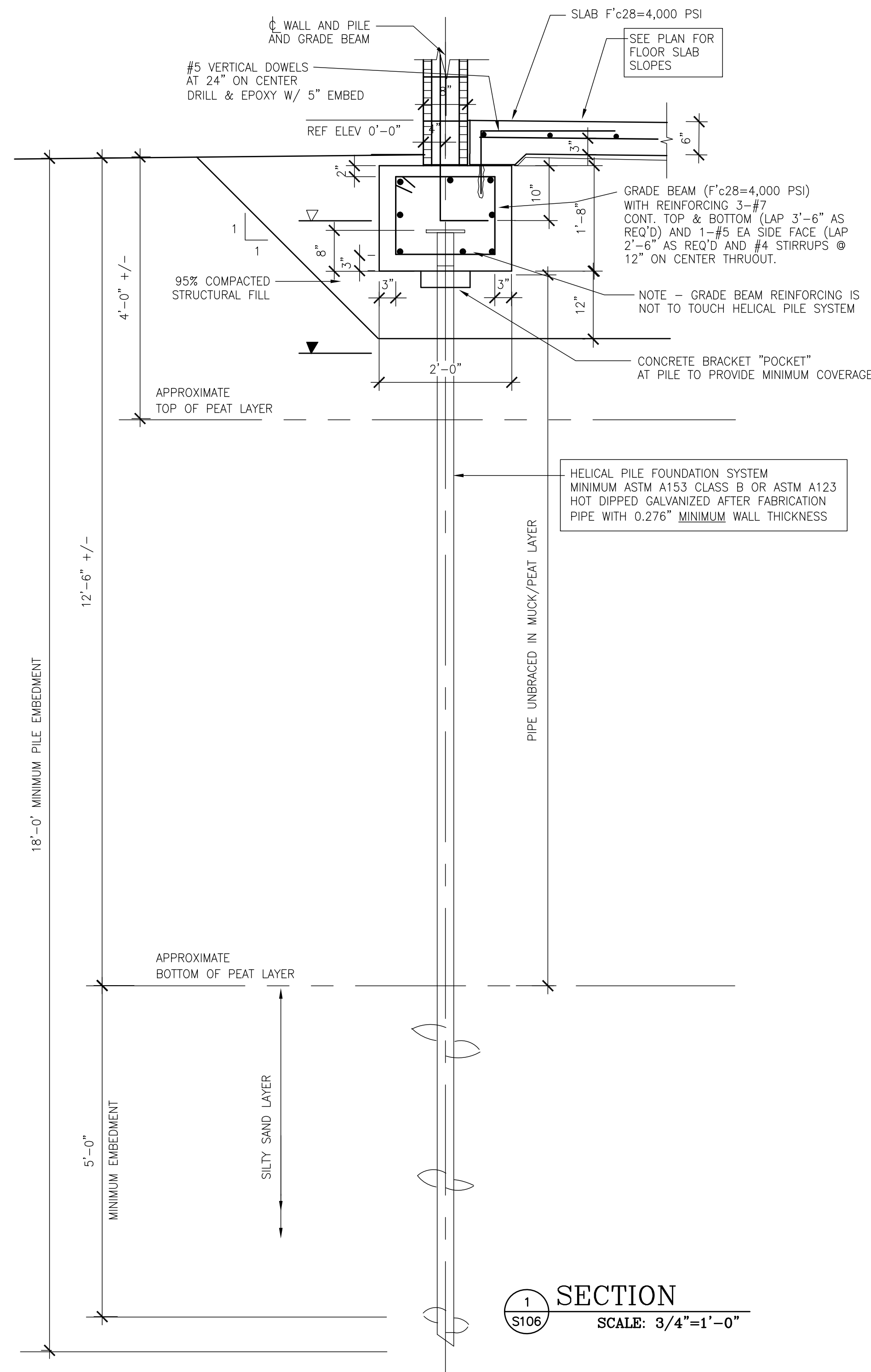
REV.	DESCRIPTION	DATE
17-109	PERMIT SET	
	N.T.S.	
	CAD FILE	
	CLS	
	CLC	
	04-05-18	

S-104



ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)

PROJECT NO. 17-109		DATE 11-10-18		PROJECT ADDRESS 4801 W. COLONIAL DR. ORLANDO, FLORIDA 32808	
PHASE	SCALE	REV.	DESCRIPTION	DATE	
	N.T.S.				
FILE NAME	CAD FILE	OWNER NAME AND ADDRESS	ORANGE COUNTY PARKS 400 E. 50TH STREET 5TH FLOOR ORLANDO, FLORIDA 32801		
DRAWN BY	CLS	CHECKED BY	CLC	DATE	04-05-18
		DRAWING TITLE		SECTIONS & DETAILS	
		CONSULTANTS		C. Louis STRUCTURAL ENGINEERS 901 Douglas Avenue Suite 203 Altamonte Springs Florida 32714 407/869-5533 FL Certificate of Authorization No. 6453 CLOUISINC@AOL.COM	
		SIGNATURE AND DATED SEAL		BORRELLI PARTNERS 730 VASSAR STREET ORLANDO, FL 32804 (407) 418-1338	
				#35251 Chris L. Chulavskas	



ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)

PROJECT NO.	17-109	DATE	12-10-18	DRAWING TITLE	SECTIONS & DETAILS
PHASE	PERMIT SET	DESCRIPTION		PROJECT ADDRESS	4801 W. COLONIAL DR. ORLANDO, FLORIDA 32808
SCALE	N.T.S.			OWNER NAME AND ADDRESS	ORANGE COUNTY PARKS 400 E. 50TH STREET 5TH FLOOR ORLANDO, FLORIDA 32801
FILE NAME	CAD FILE				
DRAWN BY	CLS				
CHECKED BY	CLC				
DATE	04-05-18				

BORRELLI PARTNERS
STRUCTURAL ENGINEERS
780 VASSAR STREET
ORLANDO, FL 32804 (407) 418-1338

C. LOUIS
STRUCTURAL ENGINEERS
901 Douglas Avenue
Suite 203
Altamonte Springs
Florida 32714
407/869-5533
FL Certificate of
Authorization No. 6453
CLOUISINC@AOL.COM

CONTRACTOR: THE UNIVERSITY OF APPELLA PARTNERS AND ASSOCIATES, P.A.
REGISTERED PROFESSIONAL ENGINEER
10000 UNIVERSITY BLVD., SUITE 1000
ORLANDO, FLORIDA 32817
REGISTERED PROFESSIONAL ARCHITECT: ROBERTA BARNETT PARTNERS, LLC (RBP)
10000 UNIVERSITY BLVD., SUITE 1000
ORLANDO, FLORIDA 32817

CONTRACT NO. 17-109
DATE: 04-05-18
DRAWN BY: CLS
CHECKED BY: CLC
DATE: 04-05-18

CONTRACTOR: THE UNIVERSITY OF APPELLA PARTNERS AND ASSOCIATES, P.A.
REGISTERED PROFESSIONAL ENGINEER
10000 UNIVERSITY BLVD., SUITE 1000
ORLANDO, FLORIDA 32817
REGISTERED PROFESSIONAL ARCHITECT: ROBERTA BARNETT PARTNERS, LLC (RBP)
10000 UNIVERSITY BLVD., SUITE 1000
ORLANDO, FLORIDA 32817

ABBREVIATIONS			
AB	ANCHOR BOLTS	FD	FLOOR DRAIN
AC or A/C	AIR CONDITIONING	FE	FIRE EXTINGUISHER
ACOUS	ACOUSTICAL	FH	FULL HEIGHT
ABV	ABOVE	FEC	FIRE EXTINGUISHER
AD	ACCESS DOOR	FCB	CABINET
AFF	ABOVE FINISHED FLOOR	FIN	FINISH
ALUM	ALUMINUM	FLR	FLOOR
APPR	APPROVED	FO	FINISHED OPENING
		FOC	FACE OF CONCRETE
BD or BRD	BOARD	FOS	FACE OF STUD
BLDG	BUILDING	FOUND	FOUNDATION
BLK	BLOCK	FOW	FACE OF WALL
BM	BEAM	FS	FLOOR SINK
BOB	BOTTOM OF BEAM	FT	FEET
BOT	BOTTOM		
		GA	GAUGE
C/C	CENTER TO CENTER	GALV	GALVANIZE
CEM	CEMENT	GL	GLASS
CER	CERAMIC	GR	GRADE
CH	CEILING HEIGHT	GYP BD	GYP SUM BOARD
CJ	CONTROL JOINT	GWB	
CLG or	CEILING		
CEIL		HDWD	HARDWOOD
CLO	CLOSET	HM	HOLLOW METAL
CLR	CLEAR	HORIZ	HORIZONTAL
CMU	CONCRETE MASONRY UNIT		
COL	COLUMN	ID	INSIDE DIAMETER
COMP	COMPOSITION	INS	INSULATION
CONC	CONCRETE	INT	INTERIOR
CONN	CONNECTION		
CONT	CONTINUOUS	JAN	JANITOR
CORR	CORRIDOR		
CSK	COUNTERSINK	LAV	LAVATORY
		LEV	LEVEL
		LTG	LIGHTING
DBL	DOUBLE	LT WT	LIGHT WEIGHT
DF	DRINKING FOUNTAIN		
DIA	DIAMETER	MAINT	MAINTENANCE
DIAG	DIAGONAL	MATL	MATERIAL
DIM	DIMENSION	INSUL	INSULATION
DN	DOWN	MAX	MAXIMUM
DO	DOOR OPENING	MECH	MECHANICAL
DR	DOOR	MTL	METAL
DS	DOWNSPOUT	MEZZ	MEZZANINE
DTL	DETAIL	MFR	MANUFACTURER
DWG	DRAWINGS	MIN	MINIMUM
		MISC	MISCELLANEOUS
EA	EACH	MO	MASONRY OPENING
EJ	EXPANSION JOINT	MT	METAL THRESHOLD
ELEC	ELECTRICAL	MULL	MULLION
ELEV or EL	ELEVATION		
EQ	EQUAL	N	NEW
EQUIP	EQUIPMENT	NO	NUMBER
EXIST	EXISTING	NR	NON-RATED
EXT	EXTERIOR	NTS	NOT TO SCALE
EWC	ELEC. WATER COOLER		
		OC	ON CENTER
		OD	OUTSIDE DIAMETER
		OH	OPPOSITE HAND
		OPNG	OPENING
		OPP	OPPOSITE
PC	PORTLAND CEMENT		
PL	PLATE		
PLYWD	PLYWOOD		
PR	PAIR		
PREP	PREPARATION		
PROJ	PROJECTION		
PT	PRESSURE TREATED		
QT	QUARRY TILE		
		R	RISER
		RAD	RADIUS
		RD	ROOF DRAIN
		REF	REFERENCE
		REFL	REFLECTED
		REINF	REINFORCE
		REQ'D	REQUIRED
		REV	REVERSE
		RM	ROOM
		RO	ROUGH OPENING
		SCWD	SOLID CORE WOOD DOOR
		SECT	SECTION
		SHT	SHEET
		SIM	SIMILAR
		SIMUL	SIMULATED
		SPECS	SPECIFICATIONS
		SQ	SQUARE
		SS	STAINLESS STEEL
		STD	STANDARD
		STL	STEEL
		STRUCT	STRUCTURAL
		SUSP	SUSPENDED
		SYM	SYMMETRICAL
		T	TREAD
		TB	TACKBOARD
		T&G	TONGUE AND GROOVE
		TEMP	TEMPERED
		TEL	TELEPHONE
		THK	THICK
		TOC	TOP OF CONCRETE / CURB
		TOP	TOP OF PARAPET
		TOS	TOP OF STEEL
		TOW	TOP OF WALL
		TYP	TYPICAL
		UNO	UNLESS NOTED OTHERWISE
		VERT	VERTICAL
		WC	WATER CLOSET
		WD	WOOD
		WI	WROUGHT IRON
		WL	WATER LEVEL
		WP	WORKING POINT

SYMBOLS

/ ANGLE Ø DIAMETER or ROUND # NUMBER or POUND & AND
 C CHANNEL ♦ WORK POINT OR ELEV BENCH MARK □ SQUARE @ AT
 P PLATE ◊ SQUARE FEET Δ DELTA
 CL CENTER LINE

MAIN-TITLE

SCALE: X'-X"

MAIN DRAWING TITLE

SECTION-TITLE

SCALE: X"=X'-0"

DRAWING SECTION TITLE

BUILDING SECTION SYMBOL SECTION SYMBOL DETAIL BUBBLE

ROOM TITLE TAG DOOR NUMBER TAG FRAME TYPE TAG

WINDOW/STORFRONT TYPE TAG WALL TYPE TAG DOOR TYPE TAG

ELEVATION HEIGHT CEILING TAG FINISH SYMBOL

ELEVATION SYMBOL SPOT ELEVATION

BASIC CODE ANALYSIS

APPLICABLE CODES

BUILDING : FLORIDA BUILDING CODE (FBC) EDITION : 2017 6th Edition
 A.D.A. : FBC ACCESSIBILITY EDITION : 2017 6th Edition
 LIFE SAFETY : FLORIDA FIRE PREVENTION CODE EDITION : 2017 6th Edition
 NFPA - 1 UNIFORM FIRE CODE EDITION : 6th Edition
 NFPA - 101 LIFE SAFETY CODE EDITION : 6th Edition

OCCUPANCY

OCCUPANCY CLASSIFICATION : UTILITY
 BUILDING AREA GROSS : 1274 SQ. FT.

CONSTRUCTION

TYPE OF CONSTRUCTION: TYPE V-B
 SPRINKLERED OR UNSPRINKLERED: UNSPRINKLERED
 APPROX BUILDING HEIGHT: 20 FEET (ONE STORY)

FIRE PROTECTION

FIRE PROTECTION REQUIREMENTS :

STRUCTURAL FRAME:	0 HOURS
BEARING WALLS (EXTERIOR):	0 HOURS
NON-BEARING WALLS (INTERIOR):	0 HOURS
FLOOR CONSTRUCTION:	0 HOURS
ROOF CONSTRUCTION:	0 HOURS
MINIMUM INTERIOR FINISH CLASS :	C

GENERAL NOTES

- SHOWN DIMENSIONS TAKE PRECEDENCE OVER SCALED MEASUREMENTS. DO NOT SCALE DRAWINGS.
- LARGER SCALE DRAWINGS TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS.
- FINISH FLOOR ELEVATION 0'-0" SHOWN ON STRUCTURAL DRAWINGS IS EQUAL TO ACTUAL FINISH FLOOR ELEVATIONS SHOWN ON CIVIL DRAWINGS.
- ALL ITEMS NOTED ON DRAWINGS ARE NEW AND ARE TO BE PROVIDED AND INSTALLED BY CONTRACTOR UNLESS NOTED OTHERWISE.
- THE MANUFACTURER'S STANDARD DETAILS OR APPROVED SHOP DRAWINGS / DATA SHEETS, IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, SHALL APPLY UNLESS OTHERWISE DETAILED IN CONSTRUCTION DOCUMENTS.

WALL TYPES

INDICATION	DETAIL	WALL TYPE	DESCRIPTION	RATINGS	REMARKS
INTERIOR WALL TYPES					
XXXX	XXXX	◆	8" CMU w/ CORE FILL INSULATION	NON-RATED	HEIGHT: TO UNDERSIDE OF TRUSSES
XXXX	XXXX	◆	8" CMU w/ CORE FILL INSULATION w/ TILE TO 5'-0" AFF TO RESTROOM SIDE	NON-RATED	HEIGHT: TO UNDERSIDE OF TRUSSES
XXXX	XXXX	◆	8" CMU w/ CORE FILL INSULATION w/ TILE TO 5'-0" AFF TO RESTROOM SIDE BOTH SIDES	NON-RATED	HEIGHT: TO UNDERSIDE OF TRUSSES

DIMENSIONING

UNLESS OTHERWISE NOTED, PLAN DIMENSIONS ARE TAKEN FROM:

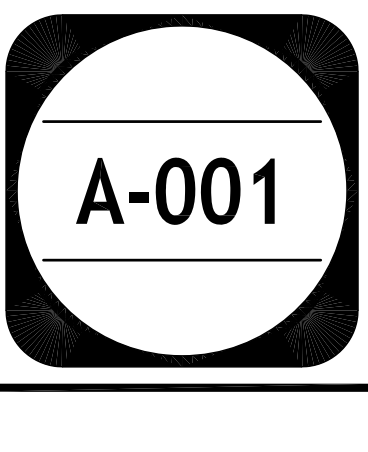
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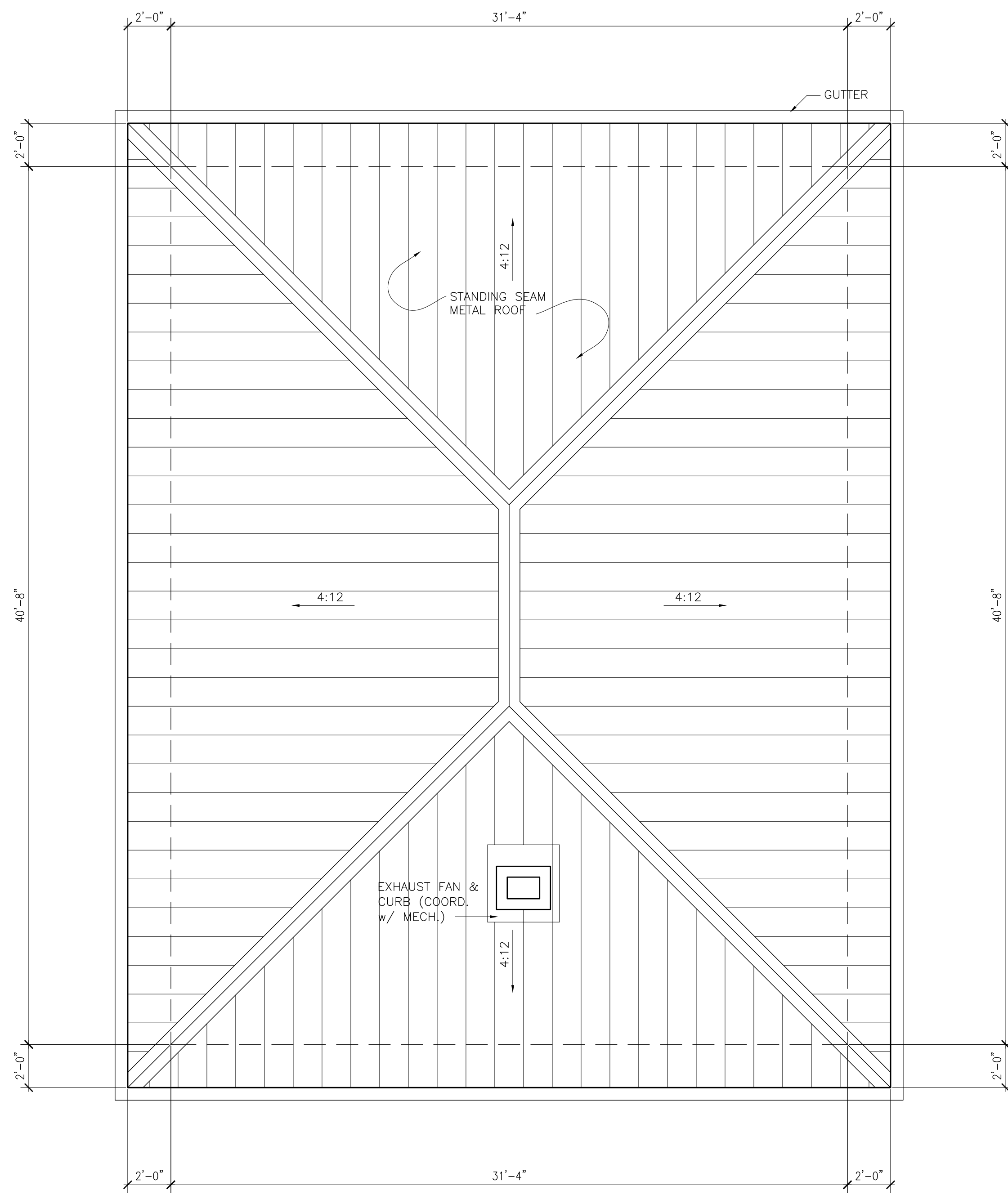
B. CENTERLINE OF COLUMN TO CENTERLINE OF COLUMN.

C. FACE OF METAL STUD TO FACE OF METAL STUD.

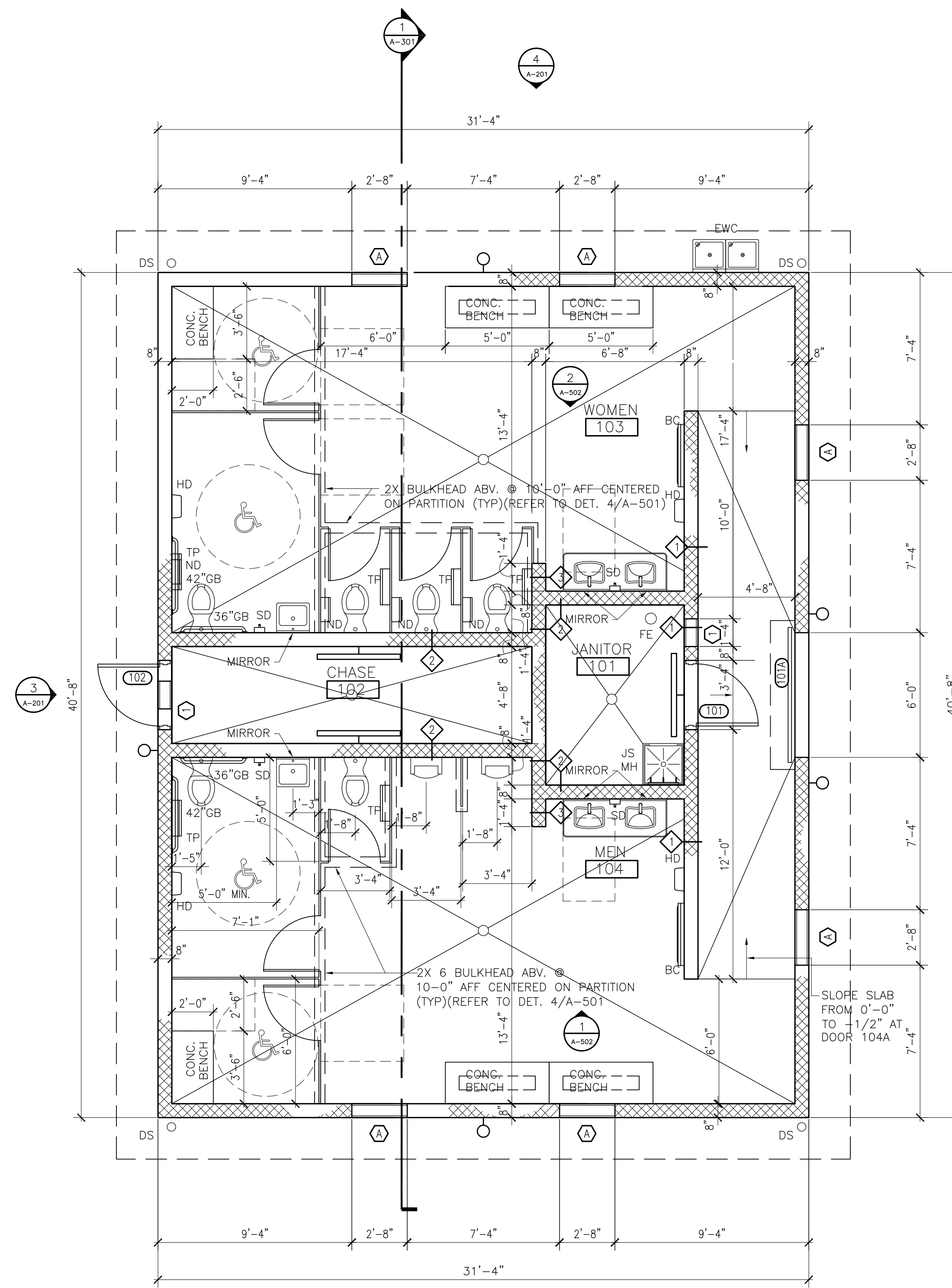
ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)

PROJECT NO. 17-109		PERMIT SET AS NOTED	DATE 04-05-2018
PHASE	SCALE	FILE NAME	DRAWN BY
17-109	AS NOTED	17-109	RP
CHECKED BY	DATE		
JJA			
PROJECT ADDRESS		DRAWING TITLE	
401 W. COLONIAL DR. ORLANDO, FLORIDA 32808		ARCHITECTURAL GENERAL INFORMATION	
OWNER NAME AND ADDRESS		CONSULTANTS	
ORANGE COUNTY PARKS 400 E. SOUTH STREET 8TH FLOOR ORLANDO, FLORIDA 32801		BORRELLI PARTNERS ARCHITECTURE PLANNING LANDSCAPE INTERIOR 720 VASSAR STREET ORLANDO, FL. 32804 (407) 418-1338	
PROJECT ADDRESS		SIGNATURE AND DATED SEAL	
401 W. COLONIAL DR. ORLANDO, FLORIDA 32808			
OWNER NAME AND ADDRESS		LICENSE #	
ORANGE COUNTY PARKS 400 E. SOUTH STREET 8TH FLOOR ORLANDO, FLORIDA 32801			





1 ROOF PLAN
1/4"=1'-0"



2 FLOOR PLAN AND FINISH LEGEND
1/4"=1'-0"

KEY NOTE	DESCRIPTION
FLOORS	
RE	RESINOUS FLOOR - COLOR TBD BY OWNER
SC	SEALED CONCRETE
BASE	
RE	RESINOUS FLOORING BASE - 6" RESINOUS BASE
CEILING	
CYP	5/8" GLASS MAT MOISTURE RESISTANT GYPSUM BOARD - FOR CEILING; WATER RESISTANT GYPSUM COVERED WITH EPOXY PAINT.
WALLS	
PTS-01	PAINT: ONE (1) COAT PRIMER AS RECOMMENDED BY MANUFACTURER. TWO (2) COATS OF VINYL ACRYLIC LATEX WITH AN EGGSHELL FINISH. COLOR: TBD BY OWNER
PTS-02	TILE: TILE TO 5'-0" AND PTS-01 ABOVE (ONLY ON WET WALL, OTHER WALLS REMAIN PTS-01). PAINT: ONE (1) COAT PRIMER AS RECOMMENDED BY MANUFACTURER. TWO (2) COATS OF VINYL ACRYLIC LATEX WITH AN EGGSHELL FINISH. COLOR: TBD BY OWNER

GENERAL NOTES

- FOR FINISHES SEE SCHEDULE SHEET A-102
- TOILET PARTITIONS INDICATED HEREIN ARE CLEAR DIMENSIONS OR FROM SIDE OF PARTITION TO A FIXTURE BASED ON 1" FOR PARTITION THICKNESS
- ACCESSIBLE RESTROOM STALLS AND CHANGING ROOMS WILL HAVE A 32 INCH CLEAR DOOR OPENING FOR EGRESS.

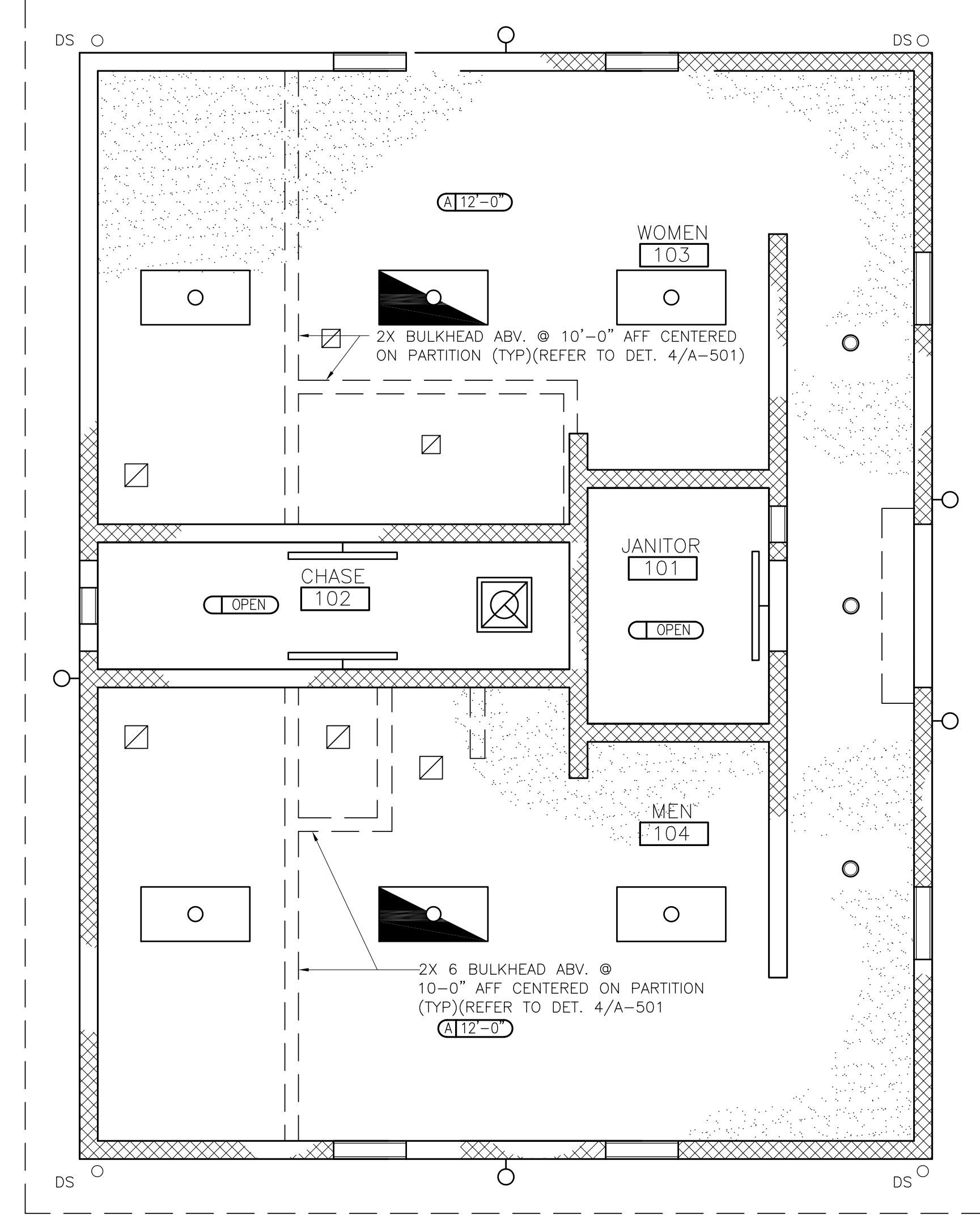
LEGEND

INDICATES ADA CLEARANCES

ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)

<p>BORRELLI PARTNERS ARCHITECTURE PLANNING LANDSCAPE INTERIOR 720 VASSAR STREET ORLANDO, FL 32804 (407) 418-1338</p>		<p>CONSULTANTS</p>		<p>DRAWING TITLE</p> <p>ROOF AND FLOOR PLAN</p>		<p>PROJECT ADDRESS</p> <p>401 W COLONIAL DR. ORLANDO, FLORIDA 32808</p>		<p>OWNER NAME AND ADDRESS</p> <p>ORANGE COUNTY PARKS 400 E SOUTH STREET 8TH FLOOR ORLANDO, FLORIDA 32801</p>		<p>DATE</p> <p>04-05-2018</p>	
<p>PROJECT NO.</p> <p>PHASE</p> <p>SCALE</p> <p>FILE NAME</p> <p>DRAWN BY</p> <p>CHECKED BY</p>		<p>REV.</p> <p>DESCRIPTION</p>		<p>DATE</p>		<p>SIGNATURE AND DATED SEAL</p>		<p>NAME</p>		<p>LICENSE #</p>	

A-101



1 CEILING PLAN
A-102 1/4"=1'-0" N

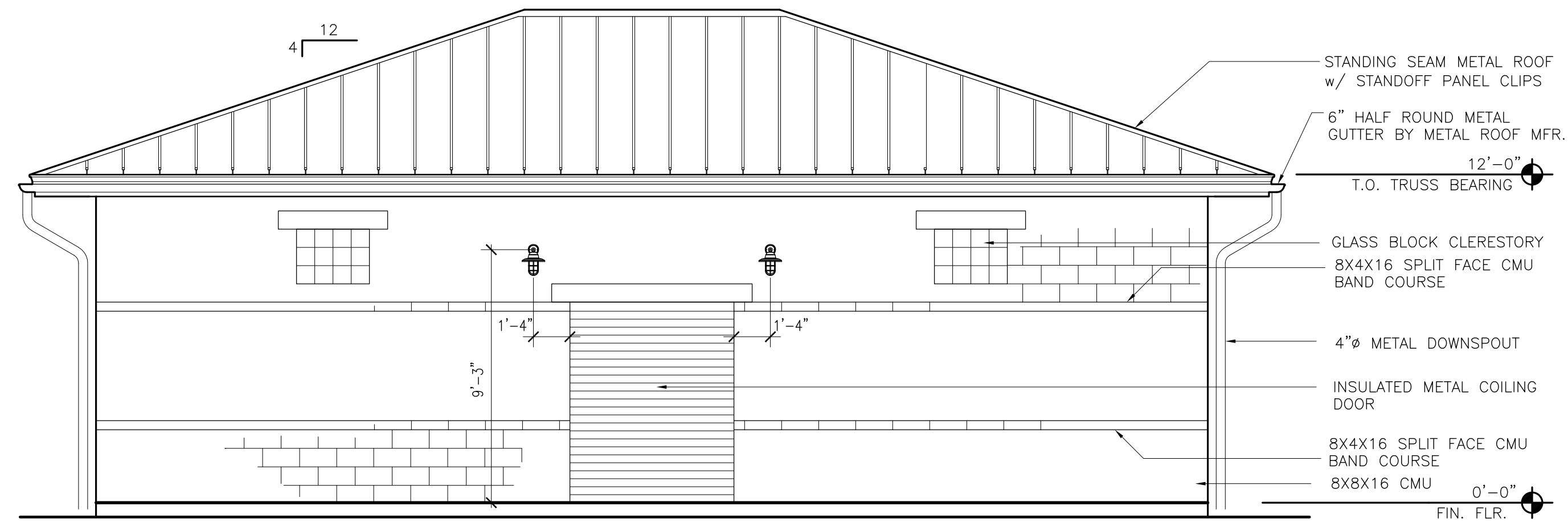
LEGEND

	DOWN LIGHT		EXHAUST FAN		2'X4' SURFACE MOUNTED EMERGENCY LIGHT FIXTURE
	WALL MOUNTED LIGHT FIXTURE		GYPSUM BOARD		
	WALL MOUNTED LIGHT FIXTURE		GYPSUM BOARD		
	2'X4' SURFACE MOUNTED LIGHT FIXTURE		EXHAUST FAN		

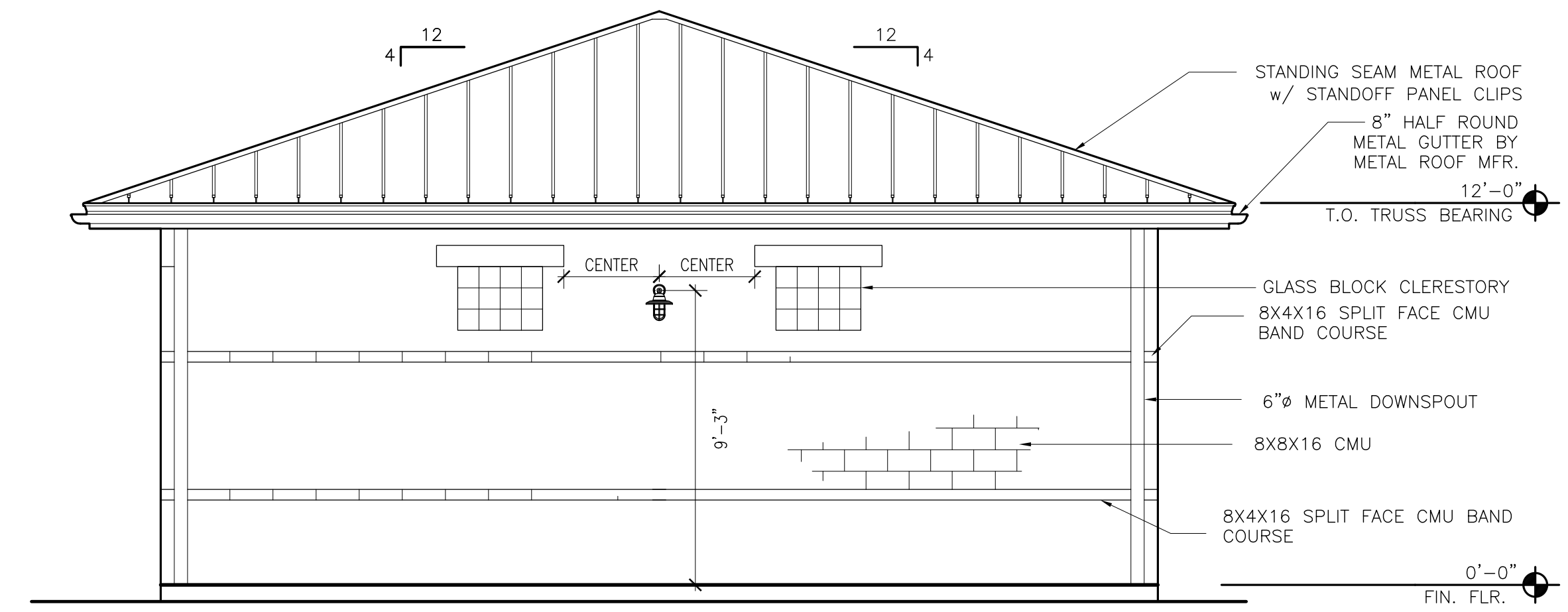
ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)

PROJECT NO. P-100	REV.	DESCRIPTION	DATE	PROJECT ADDRESS	DRAWING TITLE	CONSULTANTS	SIGNATURE AND DATED SEAL
PHASE PERMIT SET		DESCRIPTION		401 W. COLONIAL DR. ORLANDO, FLORIDA 32808	CEILING PLAN		
SCALE 1/4"=1'-0"				OWNER NAME AND ADDRESS			
FILE NAME CAD FILE				ORANGE COUNTY PARKS 400 E. SOUTH STREET 8TH FLOOR ORLANDO, FLORIDA 32801			
DRAWN BY JLM							
CHECKED BY JLM							
DATE 04-05-2018							

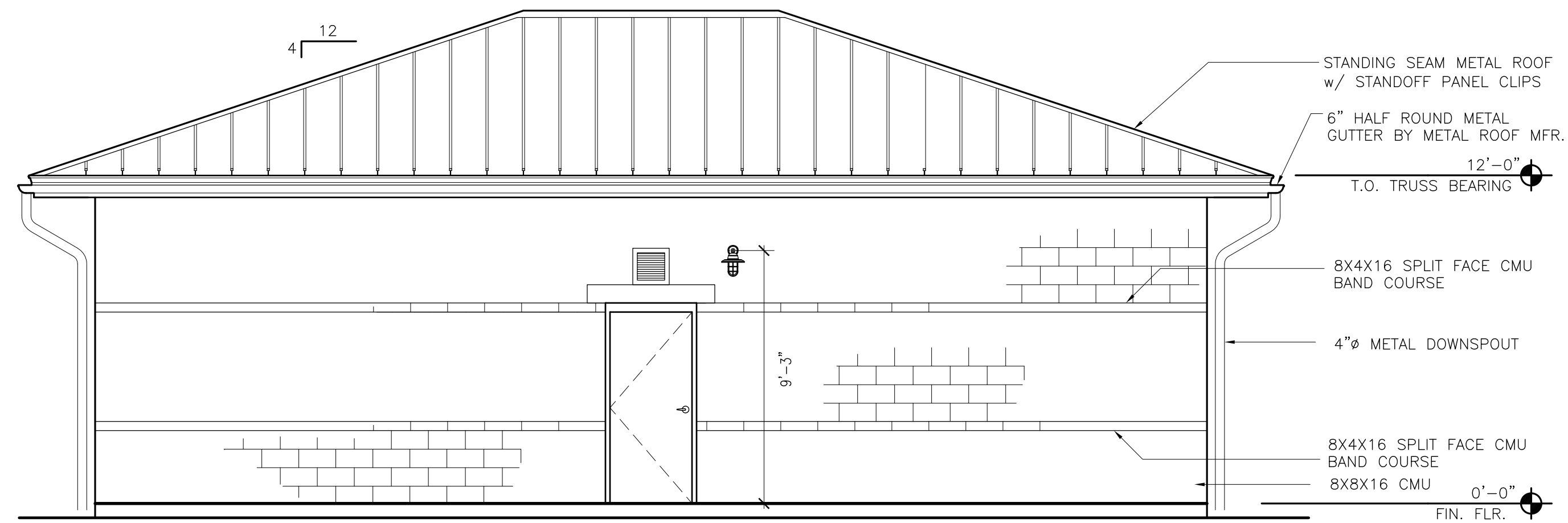




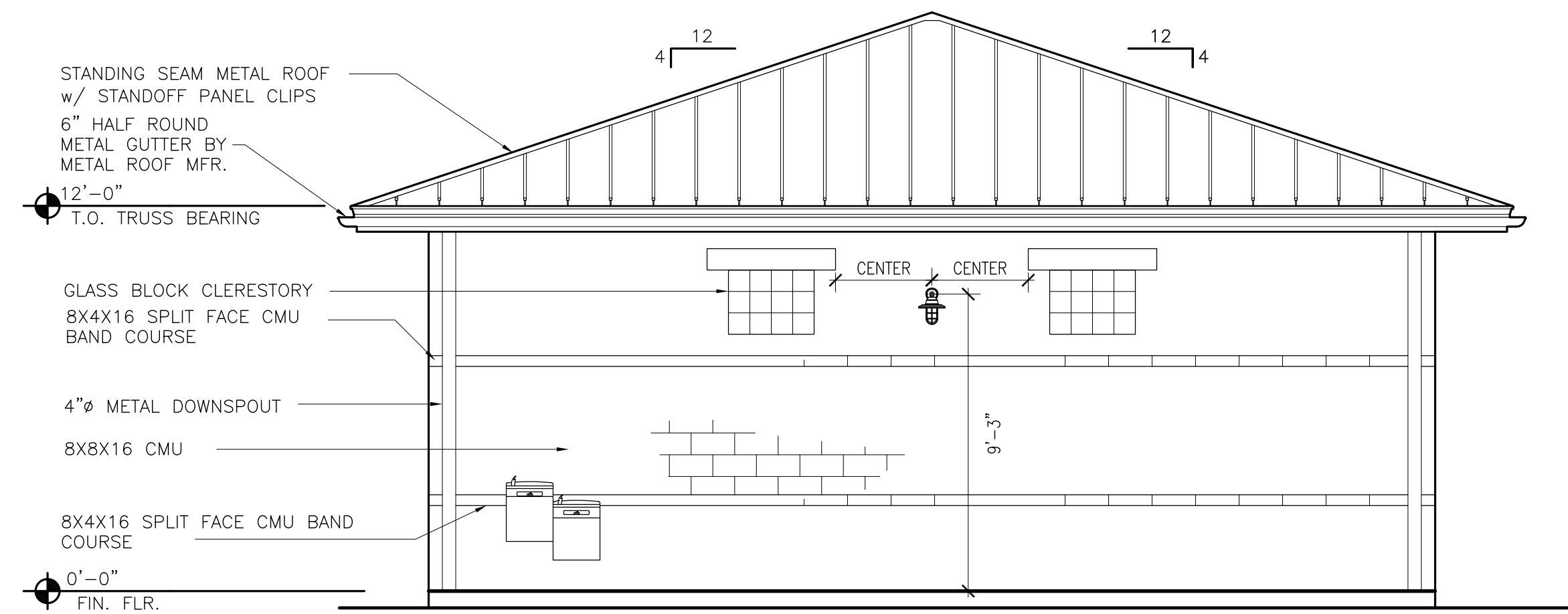
1 NORTH ELEVATION
A-201 1/4"=1'-0"



2 EAST ELEVATION
A-201 1/4"=1'-0"



3 SOUTH ELEVATION
A-201 1/4"=1'-0"



4 WEST ELEVATION
A-201 1/4"=1'-0"

ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)

BORRELLI PARTNERS
ARCHITECTURE PLANNING LANDSCAPE INTERIOR
720 VASSAR STREET
ORLANDO, FL. 32804 | 407.418.1338

CONSULTANTS

SIGNATURE AND DATED SEAL

DRAWING TITLE
BUILDING ELEVATIONS

PROJECT ADDRESS
401 W. COLONIAL DR.
ORLANDO, FLORIDA 32808

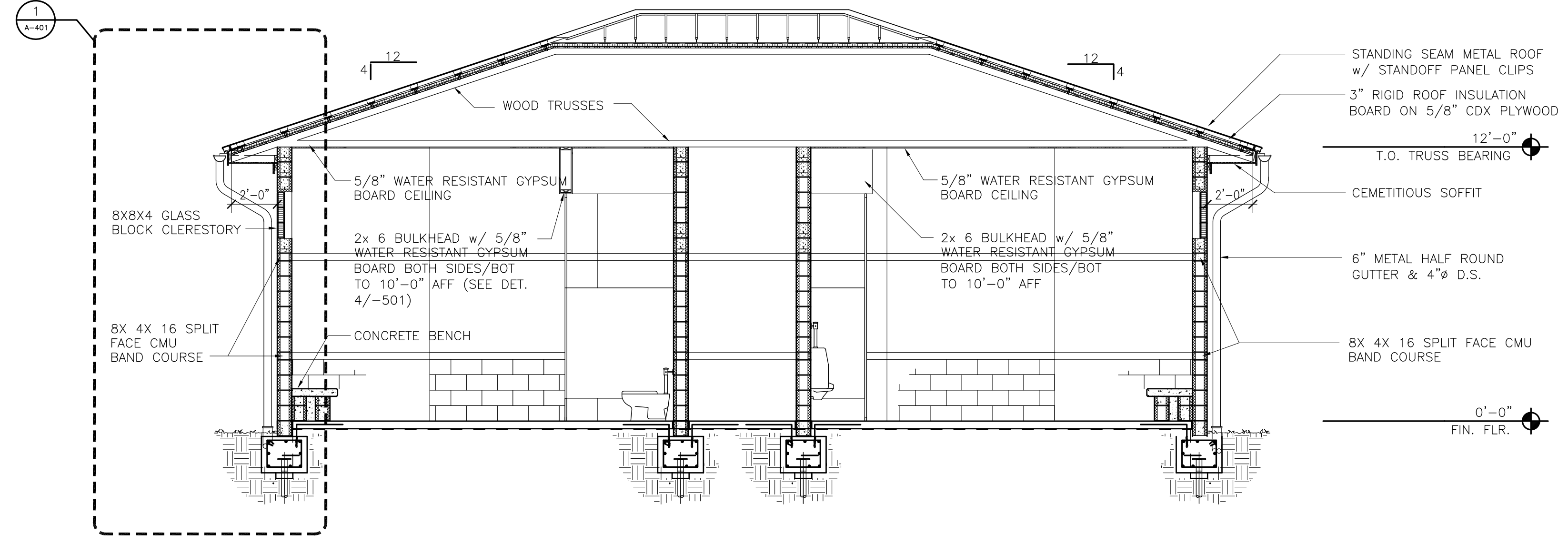
OWNER NAME AND ADDRESS
ORANGE COUNTY PARKS
400 E. SOUTH STREET
8TH FLOOR
ORLANDO, FLORIDA 32801

REV.	DESCRIPTION	DATE
17-109	PERMIT SET	
	AS NOTED	
	FILE NAME	17-109
	DRAWN BY	RP
	CHECKED BY	JJA
	DATE	04-05-2018

A-201

LICENSE #

NAME



1 BUILDING SECTION
A-301 1/4"=1'-0"

ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)

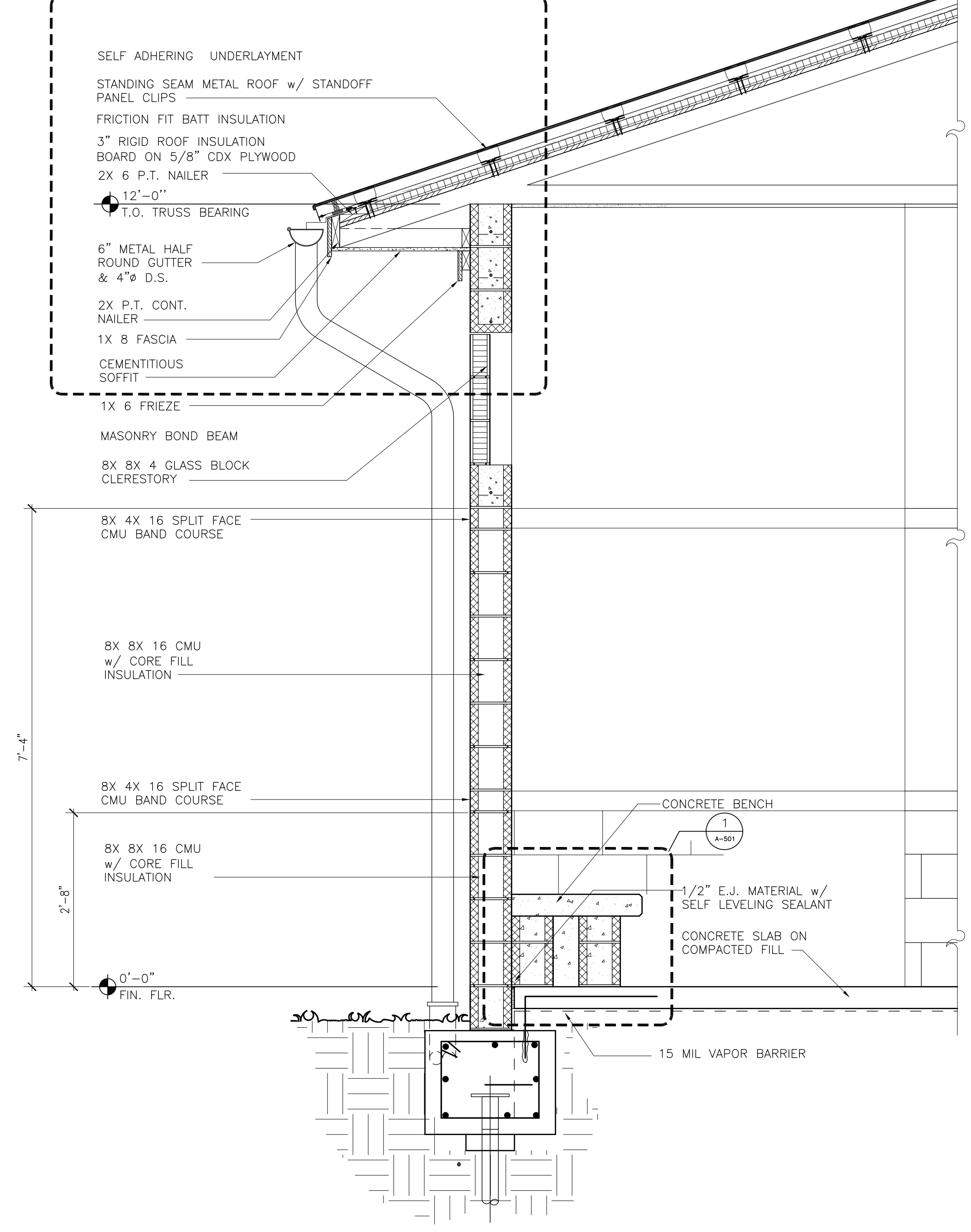
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PROJECT ADDRESS 401 W. COLONIAL DR. ORLANDO, FLORIDA 32808		OWNER NAME AND ADDRESS ORANGE COUNTY PARKS 400 E. SOUTH STREET 8TH FLOOR ORLANDO, FLORIDA 32801									
PROJECT NO. PHASE SCALE FILE NAME DRAWN BY CHECKED BY DATE		REV. DESCRIPTION DATE		DRAWING TITLE		CONSULTANTS		SIGNATURE AND DATED SEAL		LICENSE #	
17-109 PERMIT SET AS NOTED 177-109 RP JLM 04-05-2018				BUILDING SECTION							
PROJECT ADDRESS 401 W. COLONIAL DR. ORLANDO, FLORIDA 32808		OWNER NAME AND ADDRESS ORANGE COUNTY PARKS 400 E. SOUTH STREET 8TH FLOOR ORLANDO, FLORIDA 32801									

A-301

BORRELLI PARTNERS
ARCHITECTURE PLANNING LANDSCAPE INTERIOR
720 VASSAR STREET
ORLANDO, FL. 32804 | 407.418.1338
ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)
DATE: 04-05-2018

ELI PANNE

2
A-501

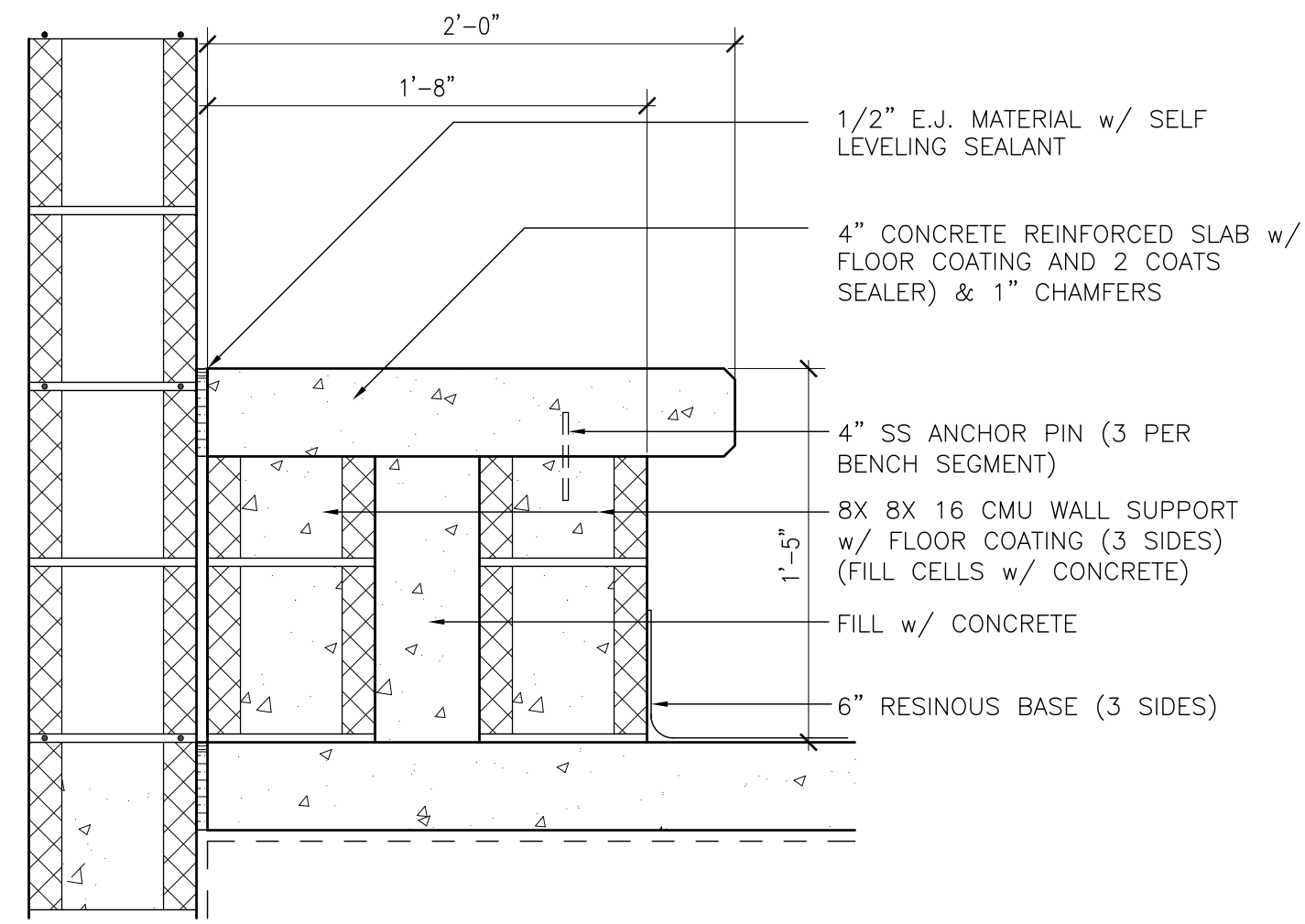


1 WALL SECTION
A-401 3/4" - 1'-0"

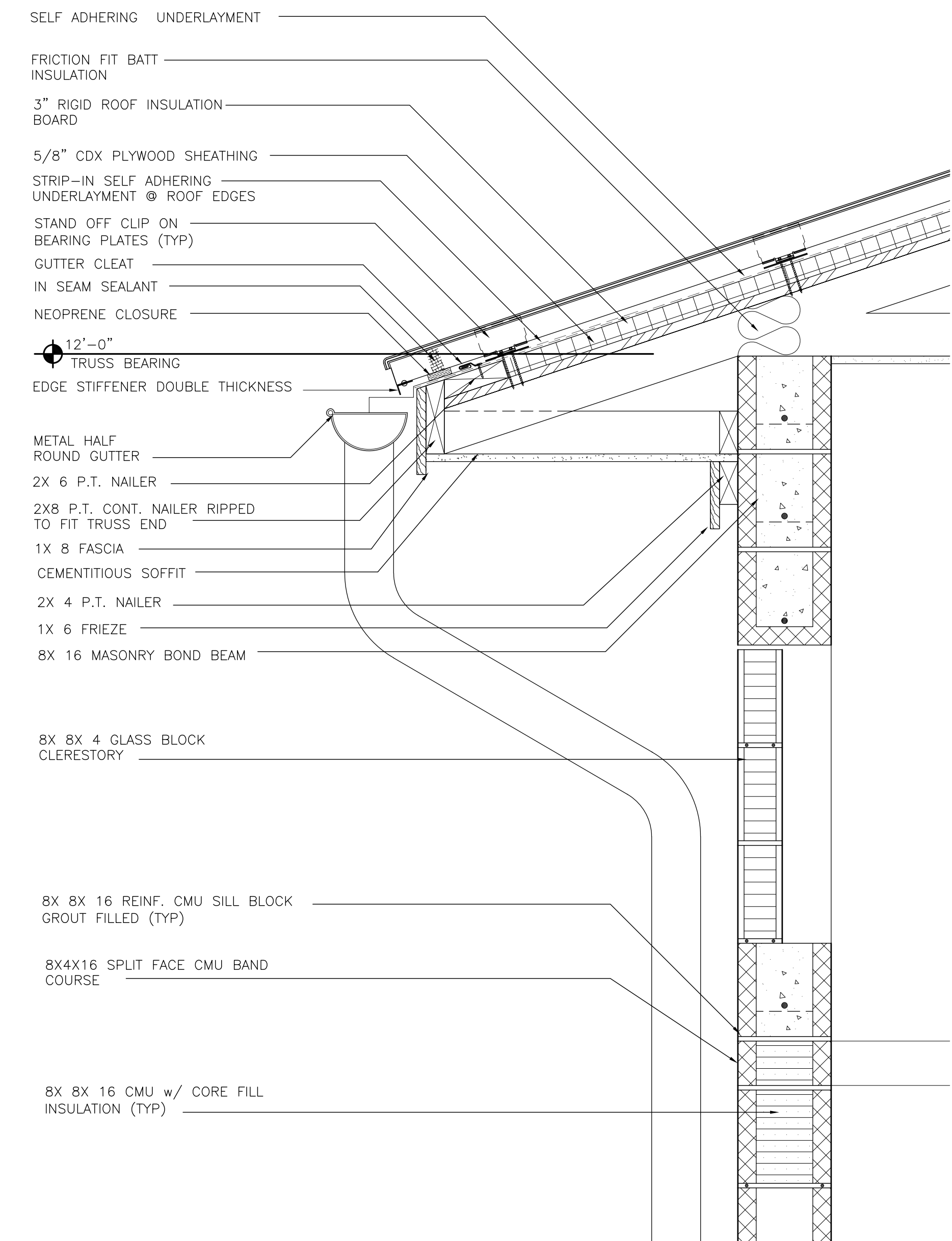
ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)

PROJECT NO.	17-109	REV.	DESCRIPTION	DATE	DRAWING TITLE	CONSULTANTS	SIGNATURE AND DATED SEAL		
PHASE	PERMIT SET								
SCALE	AS NOTED								
FILE NAME	17-109								
DRAWN BY	RP								
CHECKED BY	JJA								
DATE	04-05-2018								
PROJECT ADDRESS	401 W. COLONIAL DR. ORLANDO, FLORIDA 32808		OWNER NAME AND ADDRESS ORANGE COUNTY PARKS 400 E. SOUTH STREET 8TH FLOOR ORLANDO, FLORIDA 32801		DRAWING TITLE WALL SECTION			CONSULTANTS	
<p>BORRELLI PARTNERS ARCHITECTURE PLANNING LANDSCAPE INTERIOR 720 VASSAR STREET ORLANDO, FL. 32804 407.418.1338</p> <p><small>THIS DOCUMENT IS THE PROPERTY OF BORRELLI PARTNERS AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. WITHOUT THE WRITTEN PERMISSION OF BORRELLI PARTNERS, NO PART OF THIS DOCUMENT IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM.</small></p>								NAME	LICENSE #

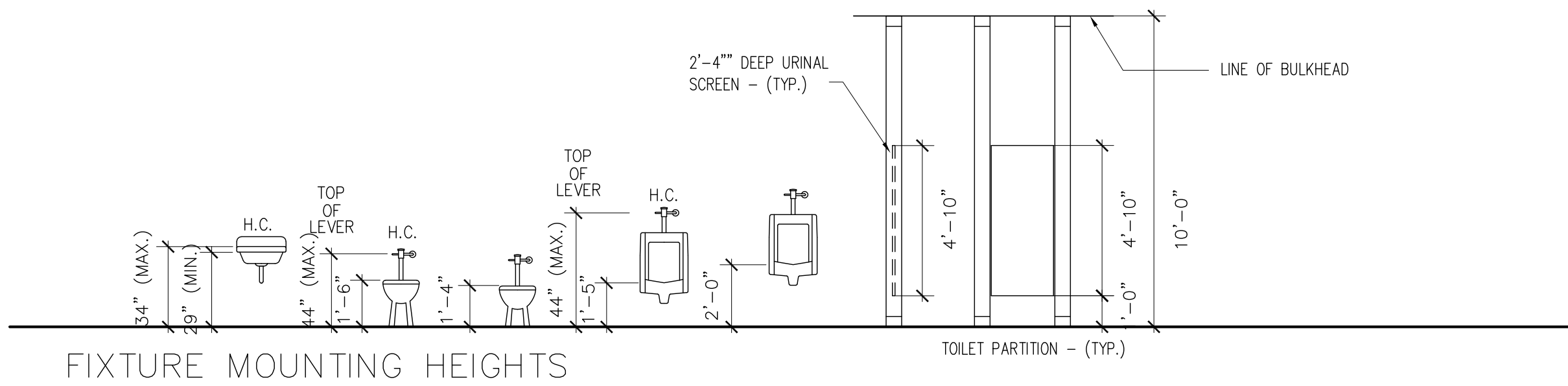
A-401



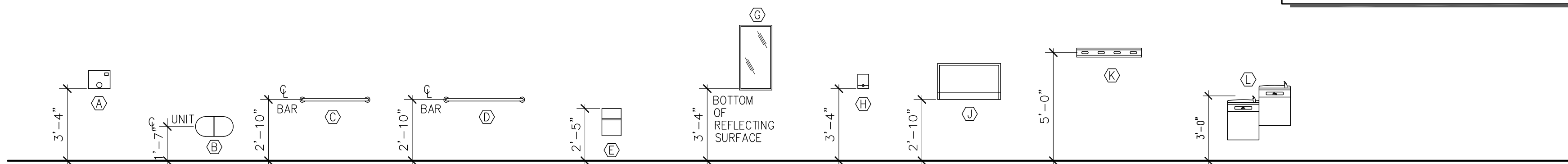
1 CONCRETE BENCH DETAIL
A-501 1-1/2"-1'-0"



2 CONCRETE BENCH DETAIL
A-501 1-1/2"-1'-0"

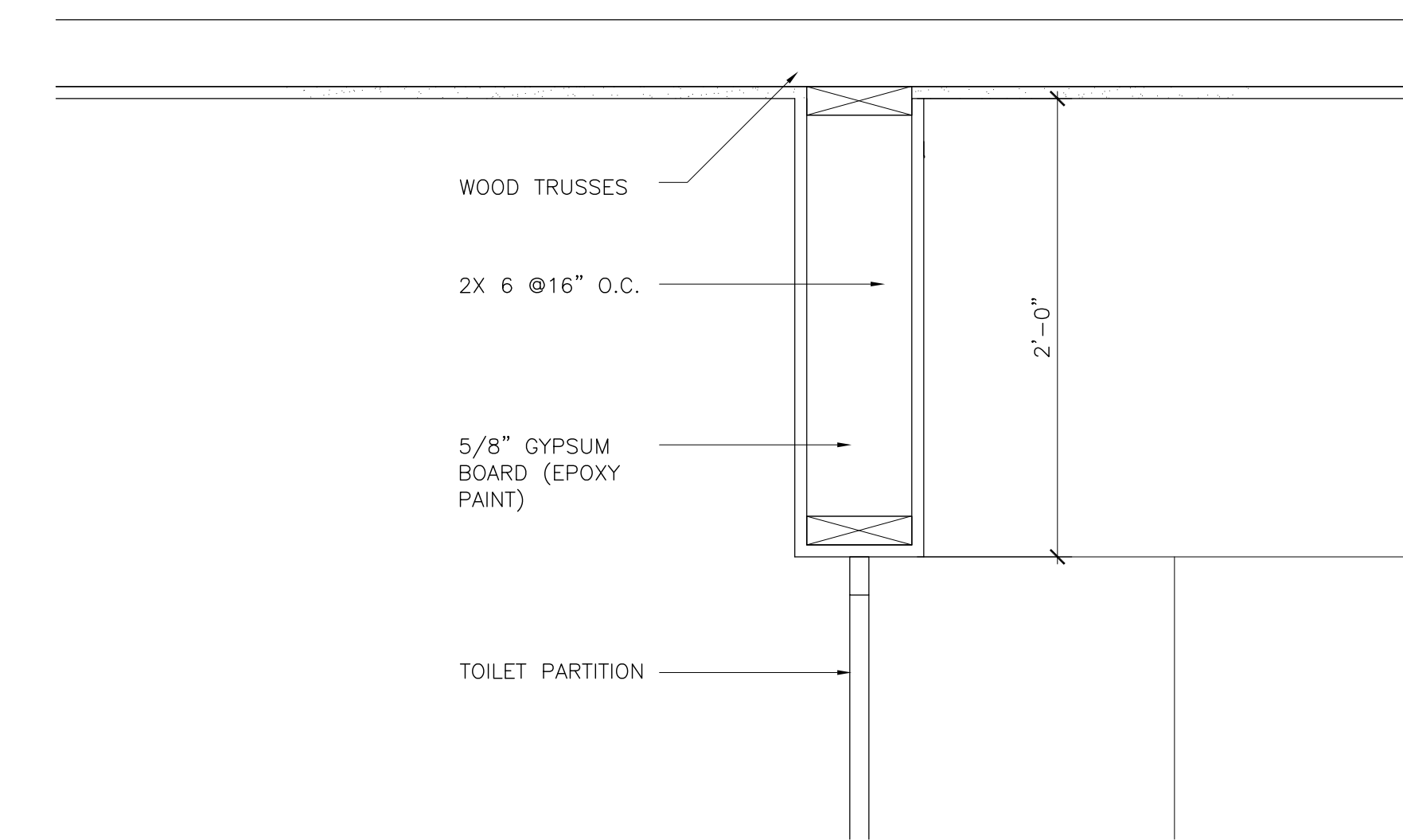


FIXTURE MOUNTING HEIGHTS



ACCESSORY MOUNTING HEIGHTS

ACCESSORY LEGEND	
(A)	WARM-AIR DRYER (HD)
(B)	TOILET TISSUE DISPENSER (TP) - O.F.C.I
(C)	GRAB BAR - 36" LONG (GB)
(D)	GRAB BAR - 42" LONG (GB)
(E)	SANITARY NAPKIN DISPOSAL (ND)
(F)	NOT USED
(G)	MIRROR UNIT - 18" x 36"
(H)	SOAP DISPENSER (SD) - O.F.C.I
(I)	DIAPER CHANGING STATION (BC)
(J)	MOP AND BROOM HOLDER (MH)
(K)	DRINKING FOUNTAIN (EWC)



4 BULKHEAD DETAIL
A-501 1-1/2"-1'-0"

3 MOUNTING HEIGHT DETAIL
A-501 1/4"-1'-0"

ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)

SIGNATURE AND DATED SEAL

CONSULTANTS

DRAWING TITLE

PROJECT ADDRESS

DATE

REV.

DESCRIPTION

PROJECT NO.

DATE

401 W. COLONIAL DR.
ORLANDO, FLORIDA 32808

OWNER NAME AND ADDRESS

PERMIT SET

AS NOTED

FILE NAME

DRAWN BY

CHECKED BY

DATE

ORANGE COUNTY PARKS
400 E. SOUTH STREET
8TH FLOOR
ORLANDO, FLORIDA 32801

DATE

DATE

DATE

DATE

DATE

DATE

DATE

BORRELLI PARTNERS
ARCHITECTURE PLANNING LANDSCAPE INTERIOR
720 VASSAR STREET
ORLANDO, FL. 32804 | (407) 418-1338
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NAME

LICENSE #

DETAILS

DATE

DATE

DATE

DATE

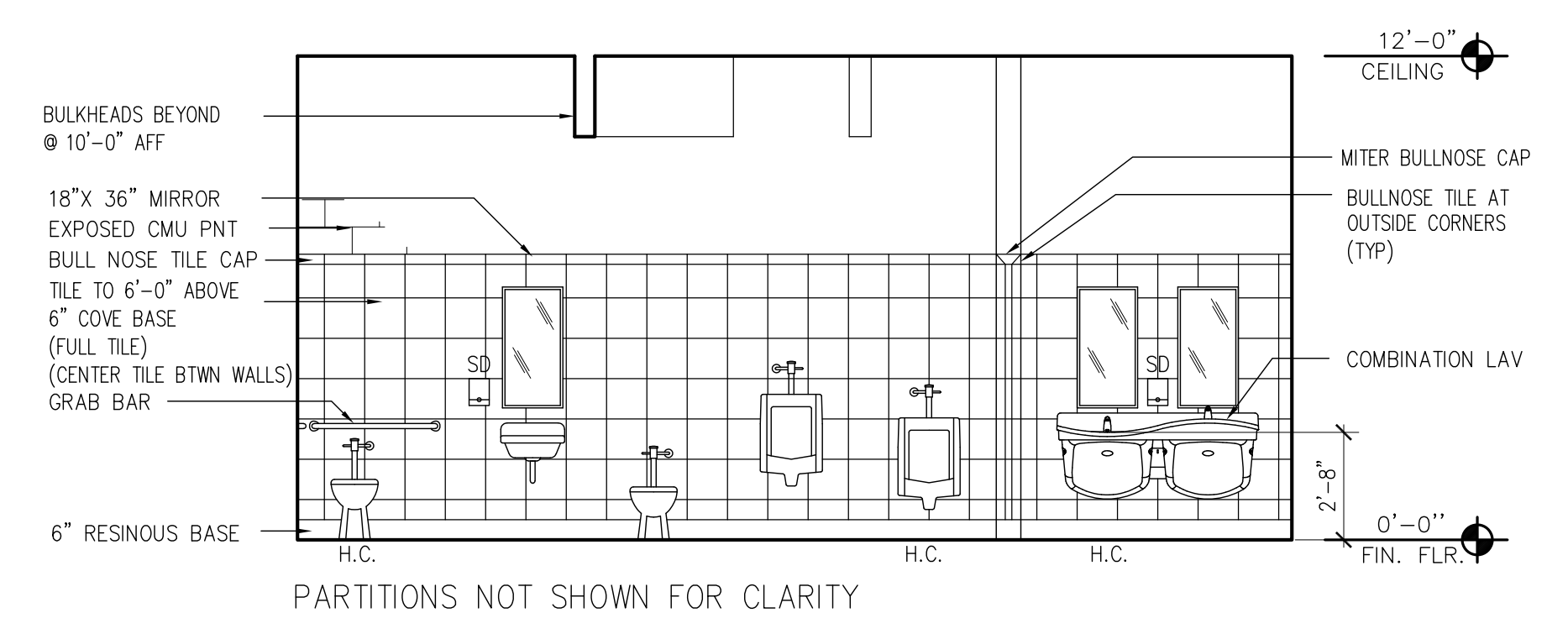
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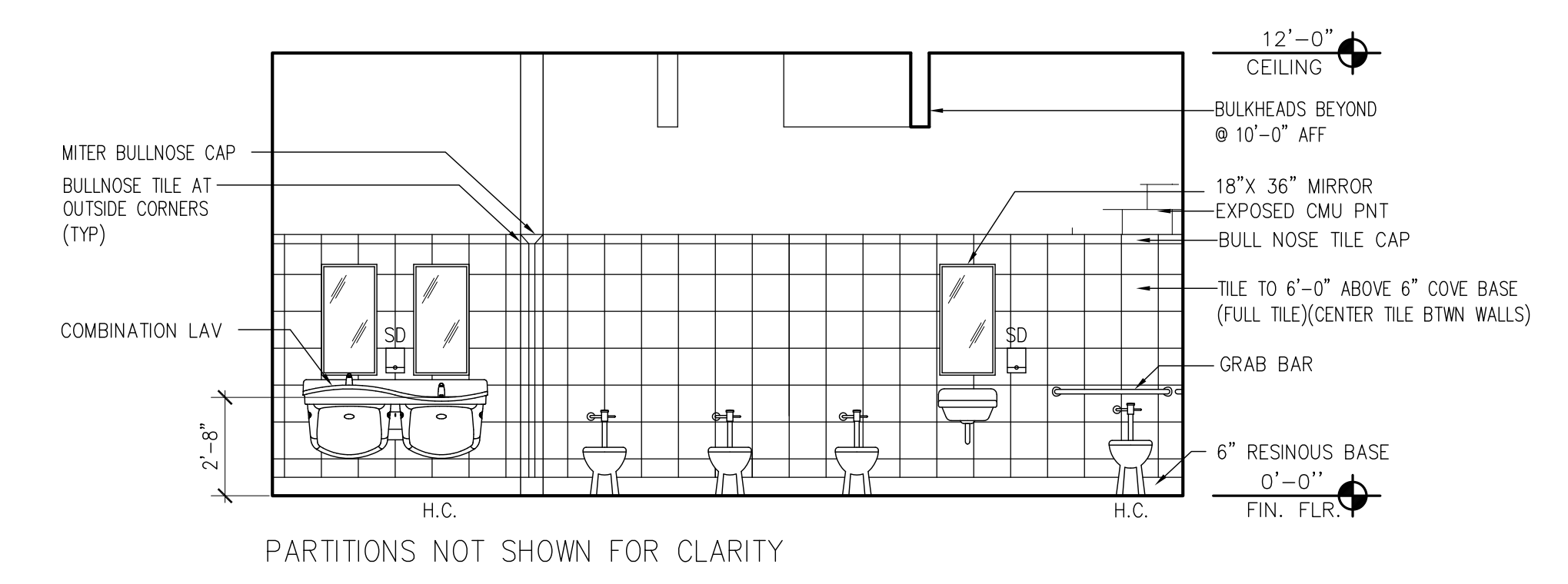
DATE



ELI PARTNERS
 720 VASSAR STREET
 ORLANDO, FL 32804 (407) 418-1338



1 INTERIOR ELEV. MEN'S RESTROOM
 A-502 1/4"-1'-0"



2 INTERIOR ELEV. WOMEN'S RESTROOM
 A-502 1/4"-1'-0"

ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)

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PROJECT ADDRESS
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 ORLANDO, FLORIDA 32808
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 ORANGE COUNTY PARKS
 400 E. SOUTH STREET
 8TH FLOOR
 ORLANDO, FLORIDA 32801

REV.	DESCRIPTION	DATE
17-109	PERMIT SET	
	AS NOTED	
	FILE NAME	17-109
	DRAWN BY	RP
	CHECKED BY	JJA
	DATE	04-05-2018

A-502

BARNETT PARK RESTROOMS BUILDING - DOOR SCHEDULE														
ROOM #	DESCRIPTION	DOOR #	DOOR			OPENING FRAME				DETAIL #	HDW SET #	NOTES		
			Size (feet - inches)			Type	Base Mat'l	Finish Mat'l	Base Mat'l				Finish Mat'l	Frame Type
			Width	Height	Thick.									
101	JANITOR	101	3'-0"	7'-0"	1 3/4"	A	HOLLOW METAL	PAINT	HOLLOW METAL	PAINT	A	1 & 2	1.0	
101A	CHASE	101A	6'-0"	7'-4"	-	B	STEEL	PAINT	-	-	-	3,4 & 5	2.0	UNINSULATED O.H. COILING DOOR, MANUAL PUSH/PULL DOOR
101A	CHASE	102	3'-0"	7'-0"	1 3/4"	A	HOLLOW METAL	PAINT	HOLLOW METAL	PAINT	A	2 & 6	1.0	

GENERAL DOOR NOTES:

A. ALL DOORS AND HARDWARE SHALL COMPLY WITH N.F.P.A. 101-5-2.1.5. ALL DOORS AND HARDWARE SHALL COMPLY WITH THE FLORIDA ACCESSIBILITY CODE, A.D.A. FEDERAL REGULATION CODES, UTILIZING A LEVER LATCH OR LOCKSET AND OC STANDARDS.

B. FOR DOOR HARDWARE SPECIFICATIONS SEE SECTION 087100

C. FOR HOLLOW METAL DOORS AND FRAMES SPECIFICATIONS SEE SECTION 081113

D. ALL HOLLOW METAL DOORS & FRAMES TO RECEIVE ENAMEL PAINT FINISH. COLOR TO BE SELECTED BY ARCHITECT

E. ALL DOORS UNDERCUT 3/4" FROM STRUCTURAL SLAB UNLESS OTHERWISE NOTED

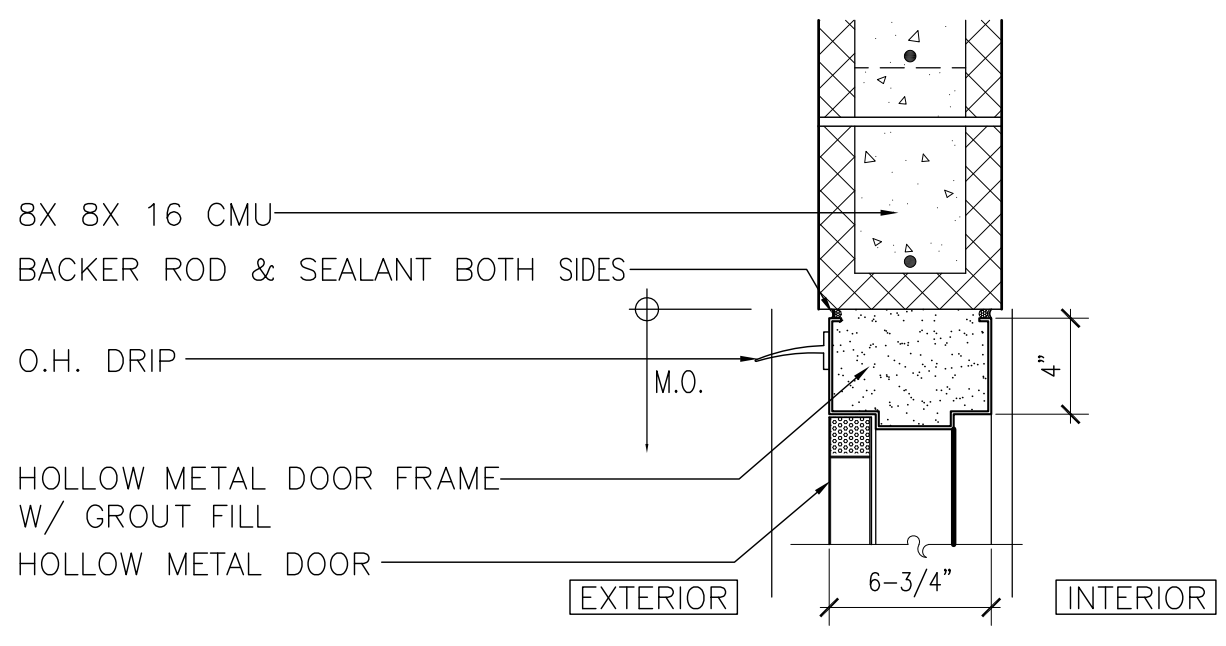
F. PERIMETER ANCHORING FOR ALL EXTERIOR DOORS AND WINDOW FRAMING SYSTEMS TO BE HURRICANE HARDENED TO COMPLY WITH MIAMI-DADE COUNTY PROTOCOLS. REFER TO MANUFACTURER'S PRODUCT APPROVAL DRAWINGS AND SPECIFICATIONS FOR REQUIRED ANCHORING AND CONNECTIONS.

DOOR ACCESSIBILITY NOTES:

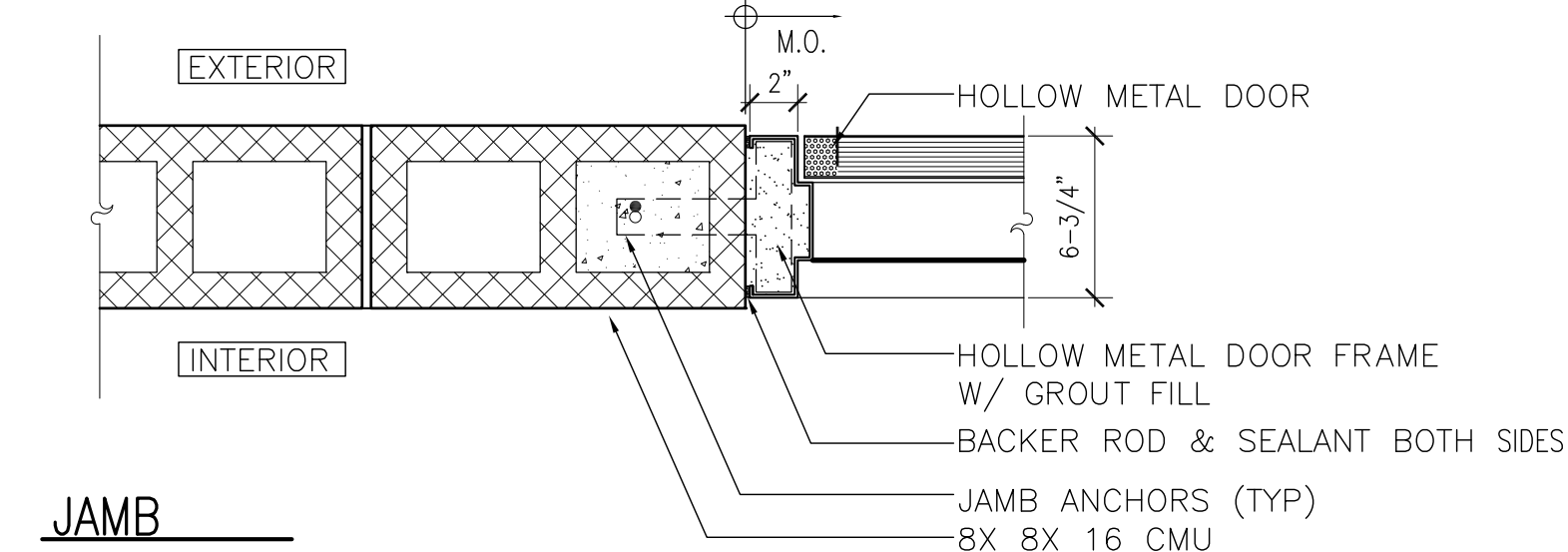
HANDLES, PULLS, LATCHES, LOCKS & OTHER OPERATING DEVICES MUST HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE. LEVER OPERATED MECHANISM & U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS. HARDWARE REQUIRED FOR PASSAGE MUST BE MOUNTED NO HIGHER THAN 48" A.F.F.

DOOR CLOSURES:
IF A DOOR HAS A CLOSER THEN THE SWEEP PERIOD OF THE CLOSER MUST BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 70 DEGREES, THE DOOR WILL TAKE AT LEAST 3 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH. MEASURE FROM THE LEADING EDGE OF THE DOOR.

DOOR OPENING:
FORCE THE MAXIMUM FORCE FOR PUSHING OR PULLING OPEN A DOOR MUST BE AS FOLLOWS:
EXTERIOR HINGED DOORS: (ADAAG PROVIDES NO REQUIREMENTS AT THIS TIME)
INTERIOR HINGED DOORS:
5 LB.S SLIDING OR FOLDING DOORS: 5 LB.S

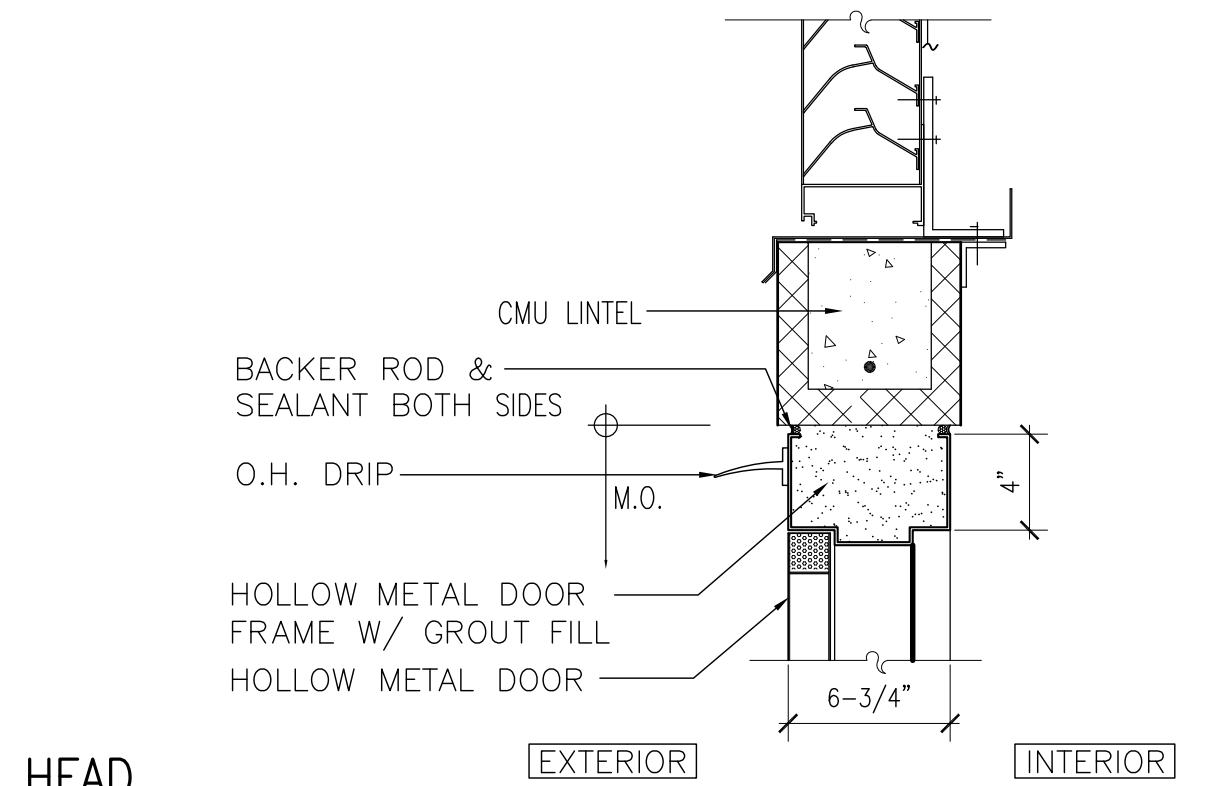
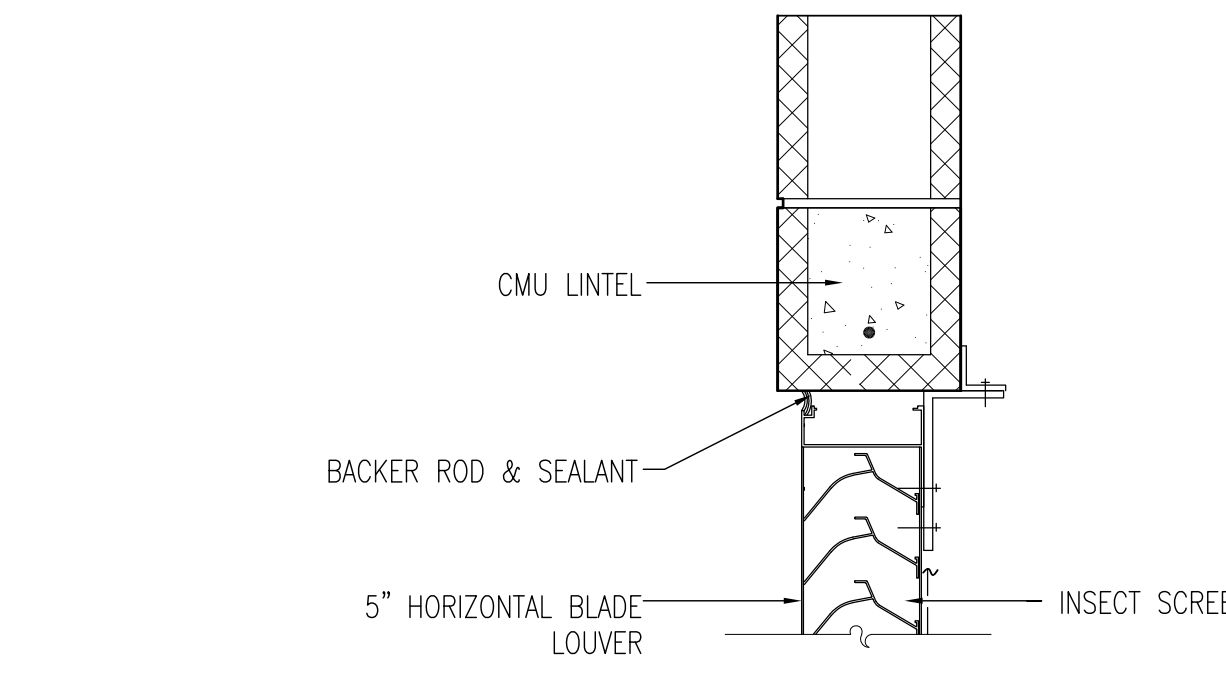


HEAD



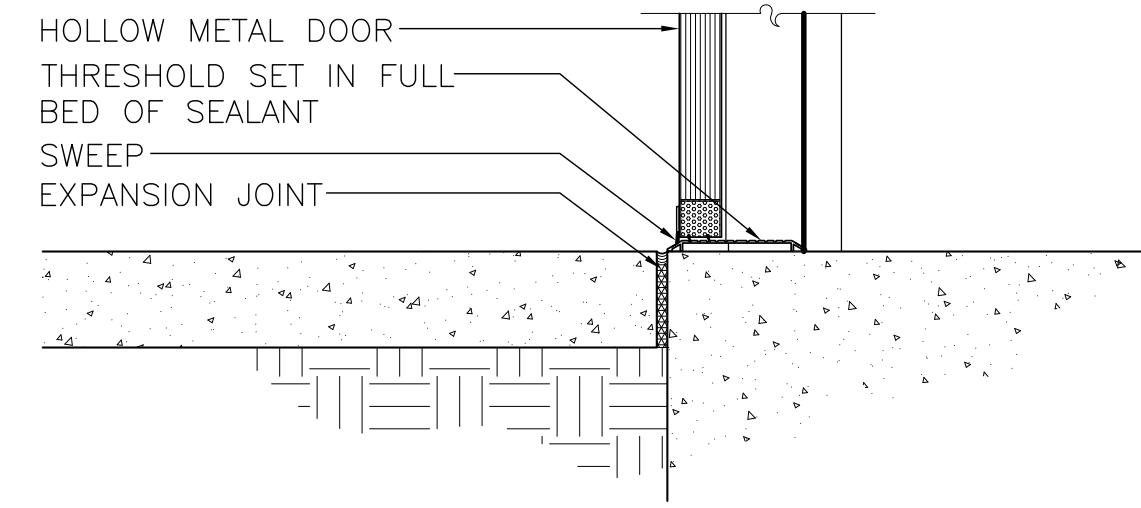
JAMB

1 H.M. DOOR AT CMU
SCALE: 1-1/2" = 1'-0"

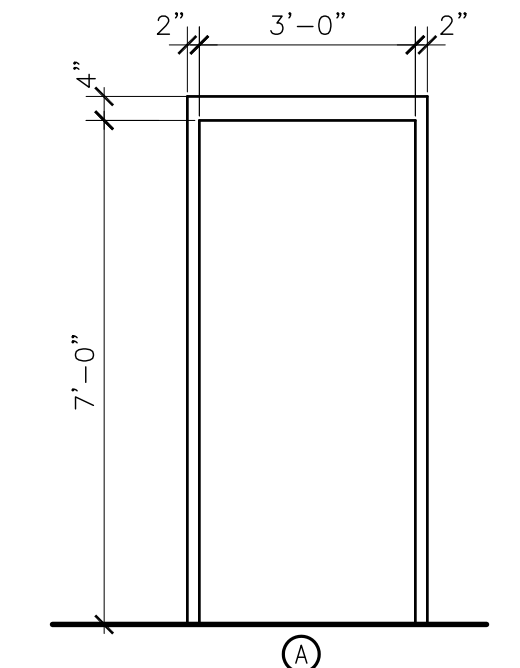


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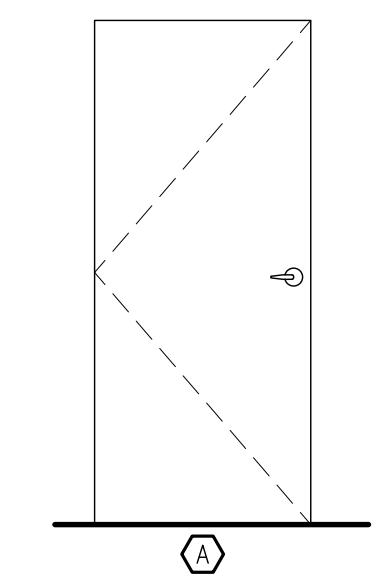
6 H.M. DOOR AT LOUVER - CMU
SCALE: 1-1/2" = 1'-0"



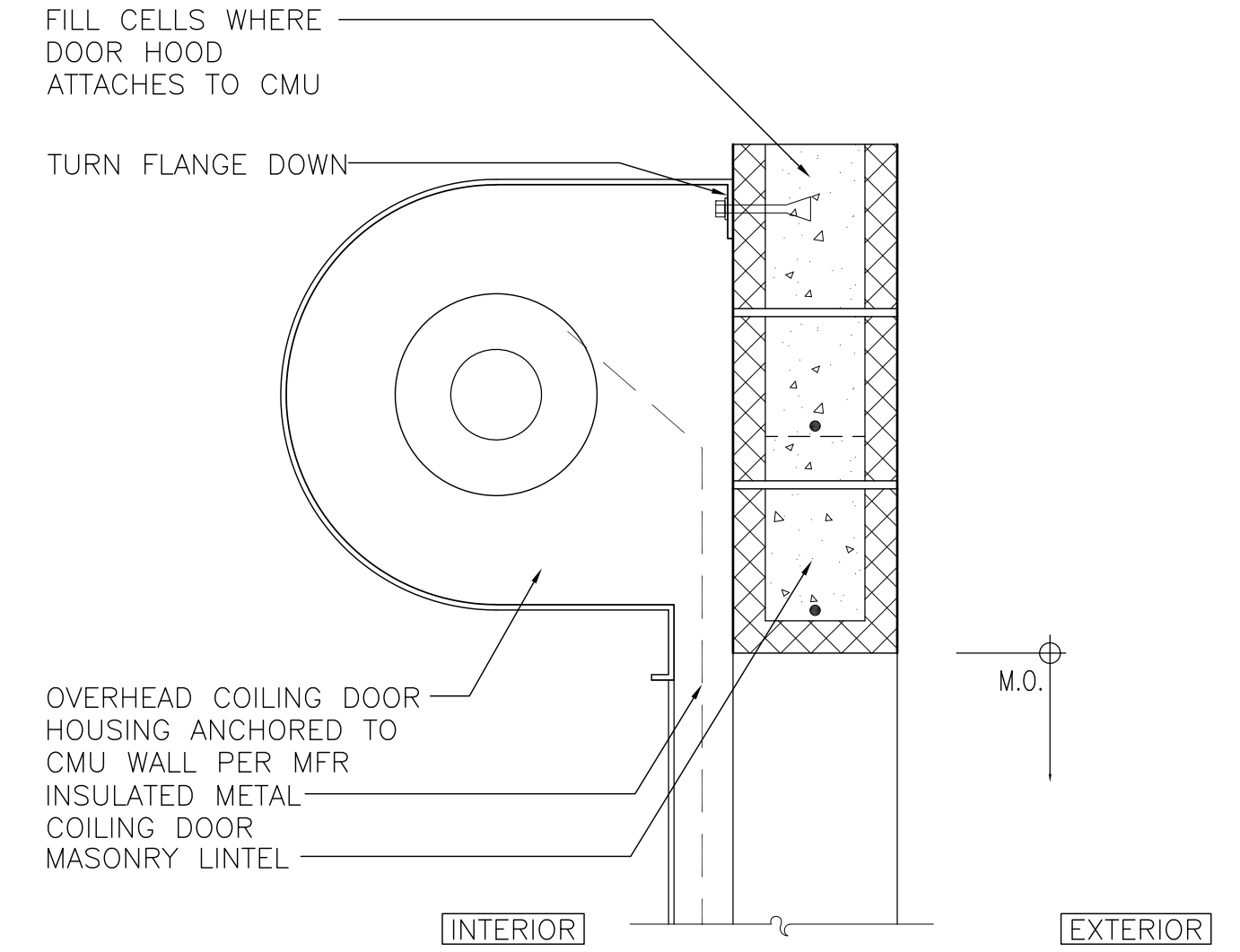
2 DOOR SILL DETAIL
SCALE: 1-1/2" = 1'-0"



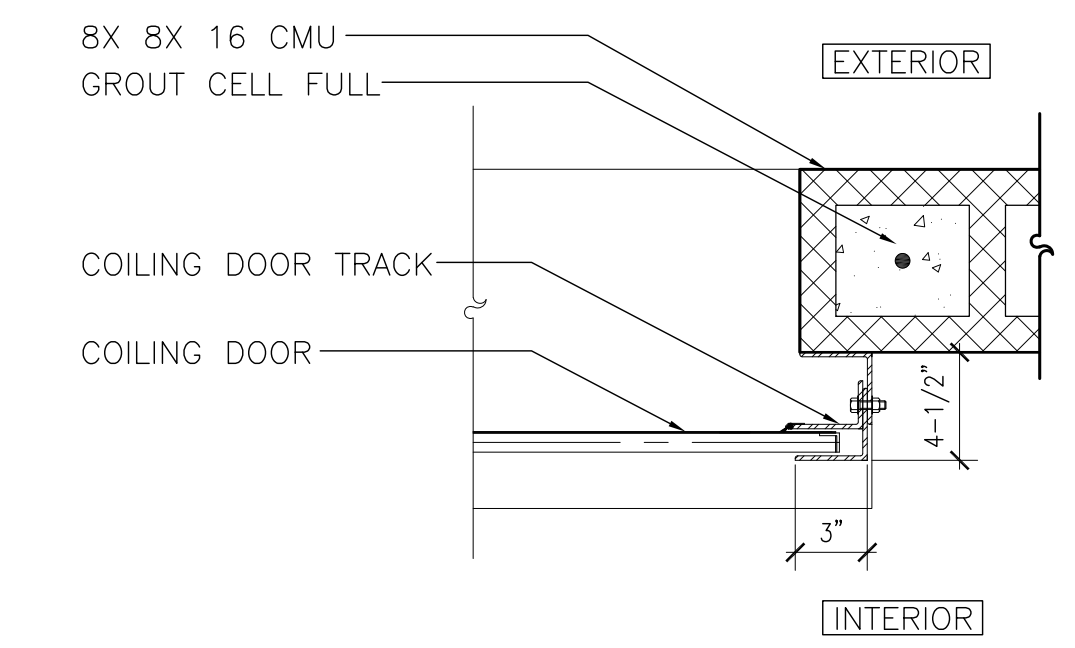
FRAME ELEVATION
SCALE: 3/8"=1'-0"



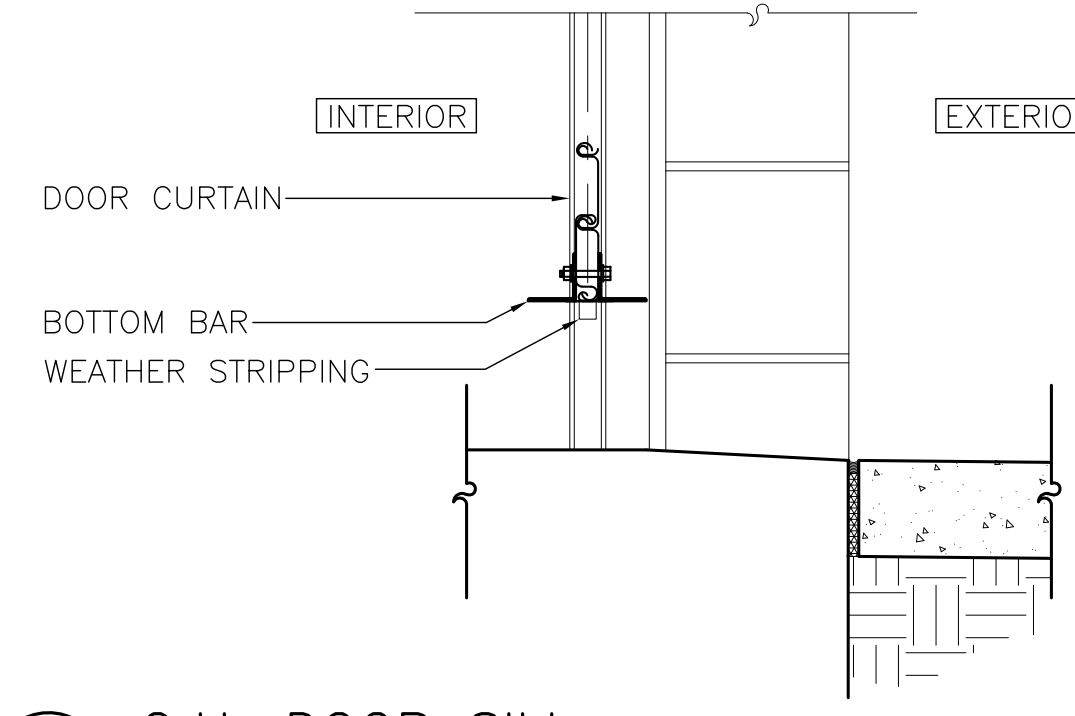
DOOR ELEVATION
SCALE: 3/8"=1'-0"



3 O.H. DOOR HEAD (SIMILAR @ DOORS 101A)
SCALE: 1-1/2" = 1'-0"



4 O.H. DOOR JAMB
SCALE: 1-1/2" = 1'-0"



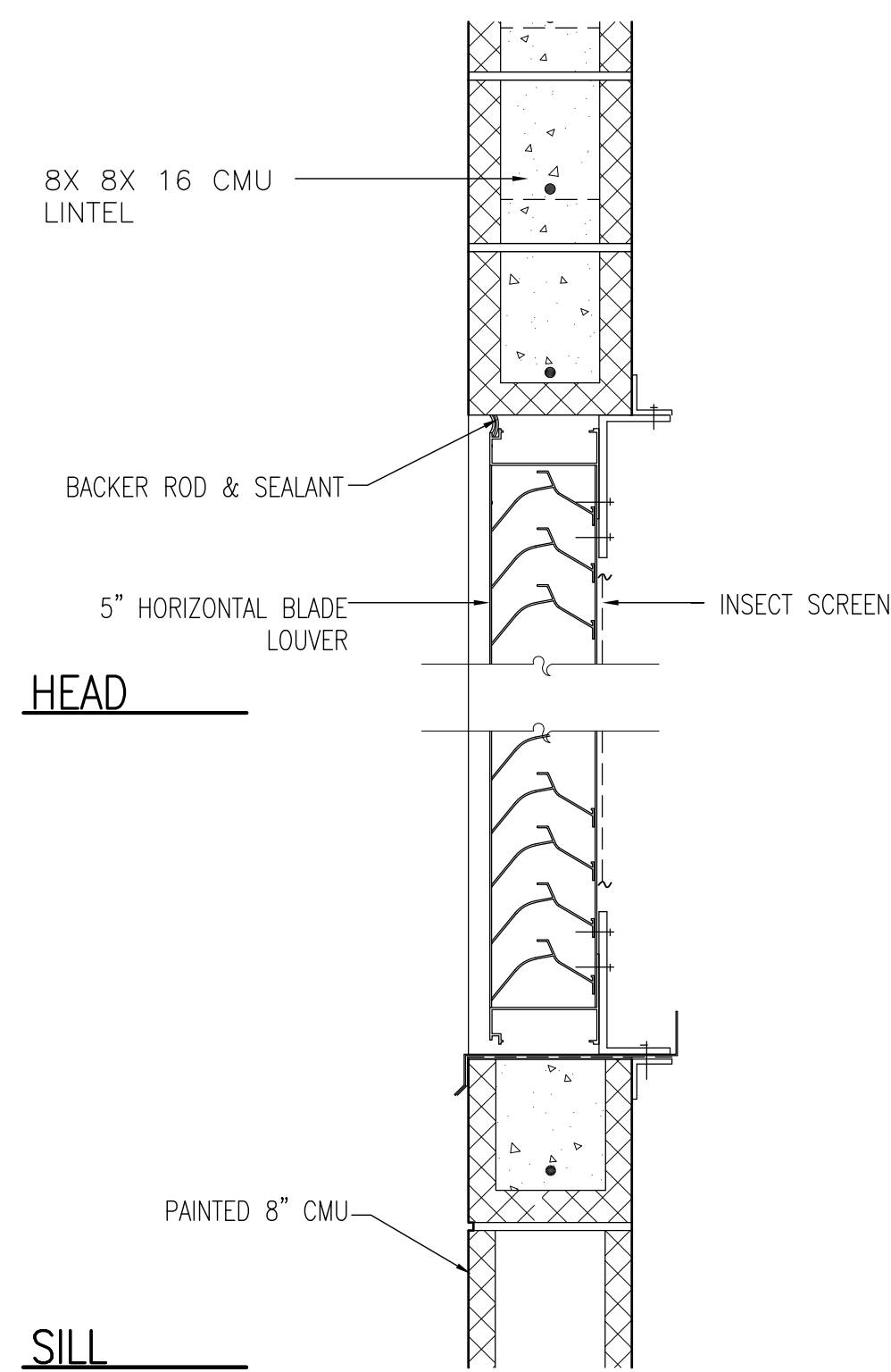
5 O.H. DOOR SILL
SCALE: 1-1/2" = 1'-0"

ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)

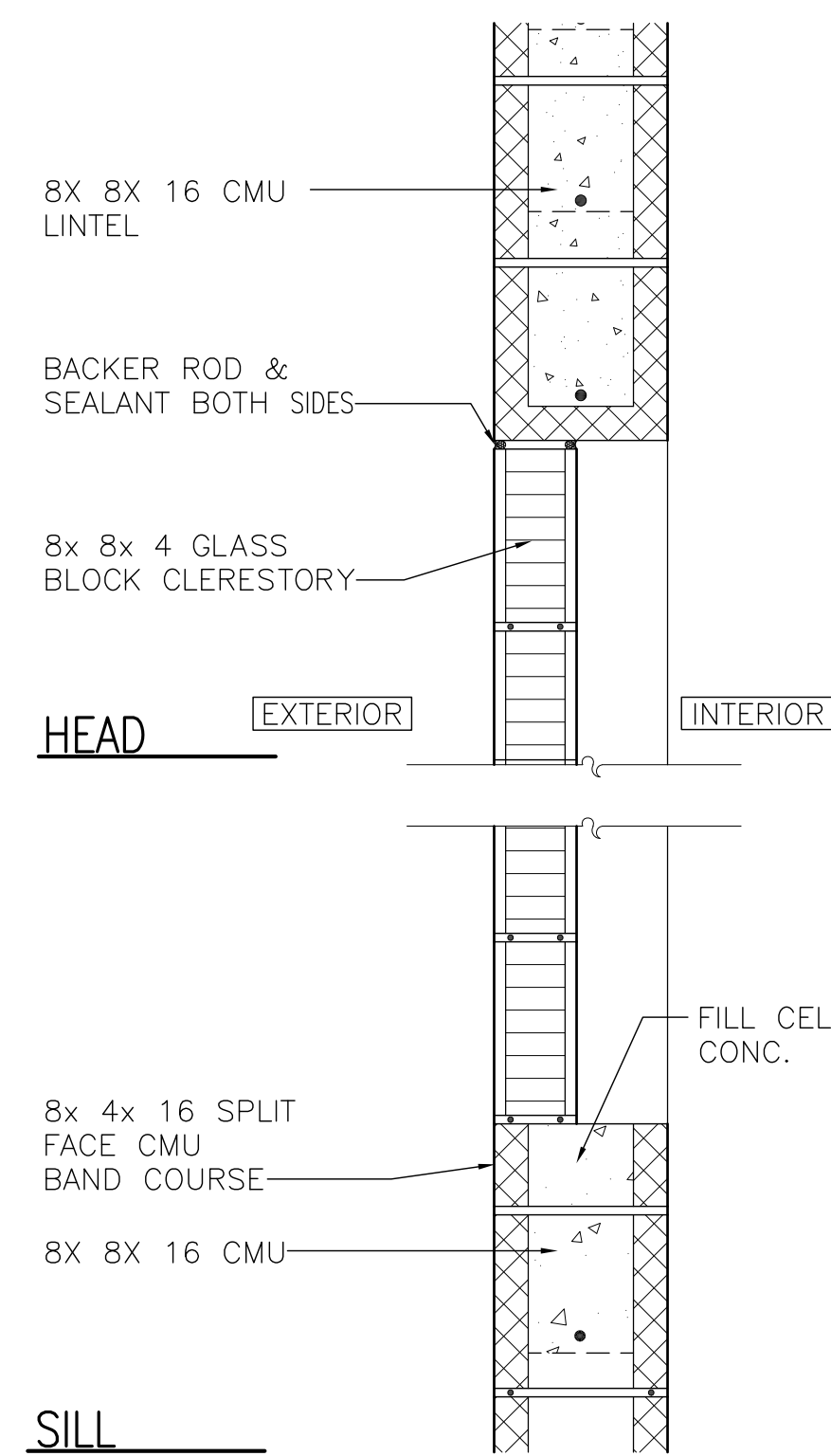
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PROJECT NO. PHASE PERMIT SET SCALE FILE NAME DRAWN BY CHECKED BY DATE		DESCRIPTION AS NOTED 17-109 RP JJA 04-05-2018	A-503

LOUVERS - GLASS BLOCK - WINDOWS SCHEDULE

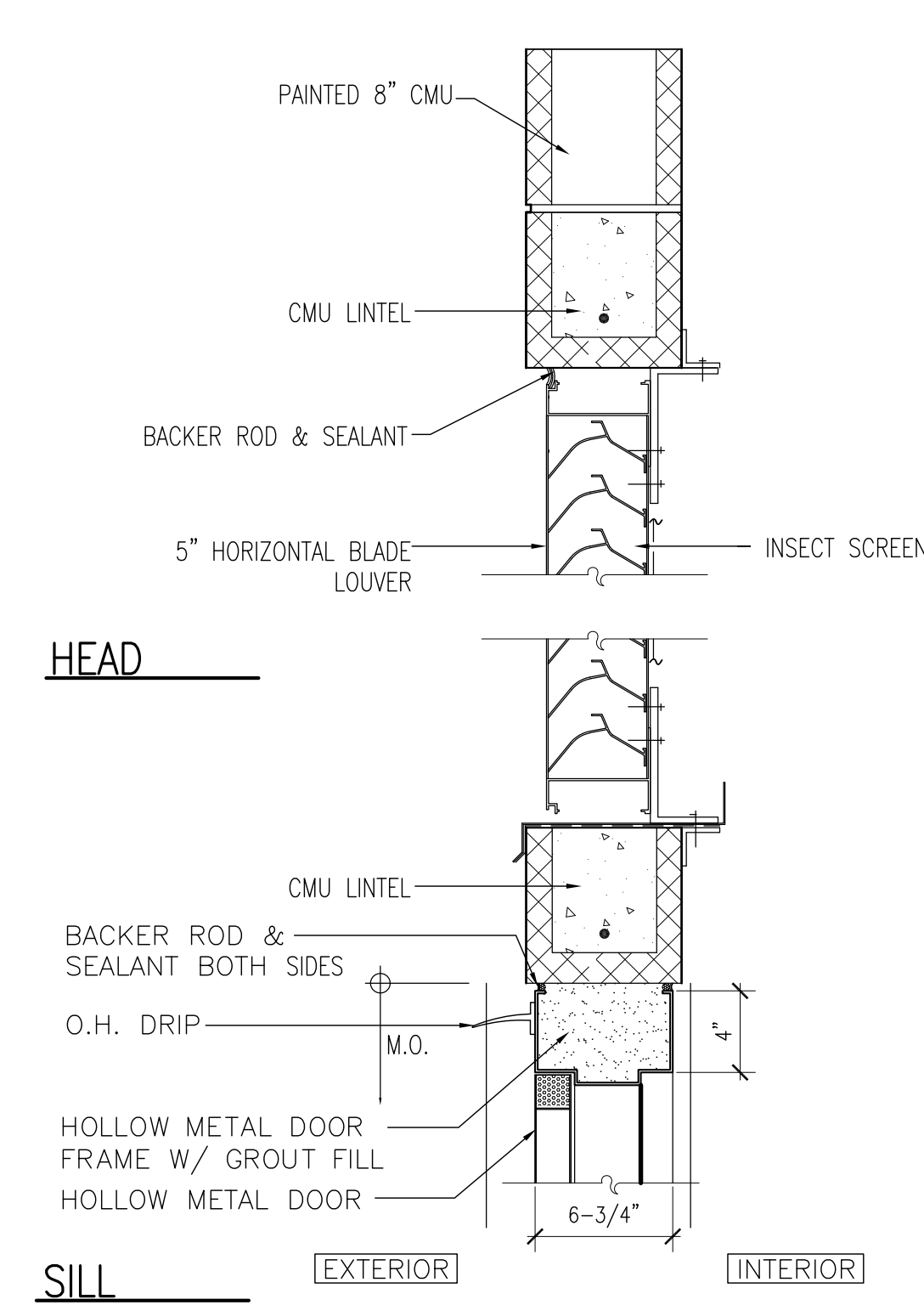
NO.	DESCRIPTION	MATERIAL	NOMINAL WIDTH (M.O.)	NOMINAL HEIGHT (M.O.)	DETAILS	REMARKS
A	GLASS BLOCK CLERESTORY	ALUM/GLASS	2'-8"	2'-0"	2/A-504	
1	LOUVER	ALUM	1'-4"	1'-4"	1/A-504 - 3/A-504	



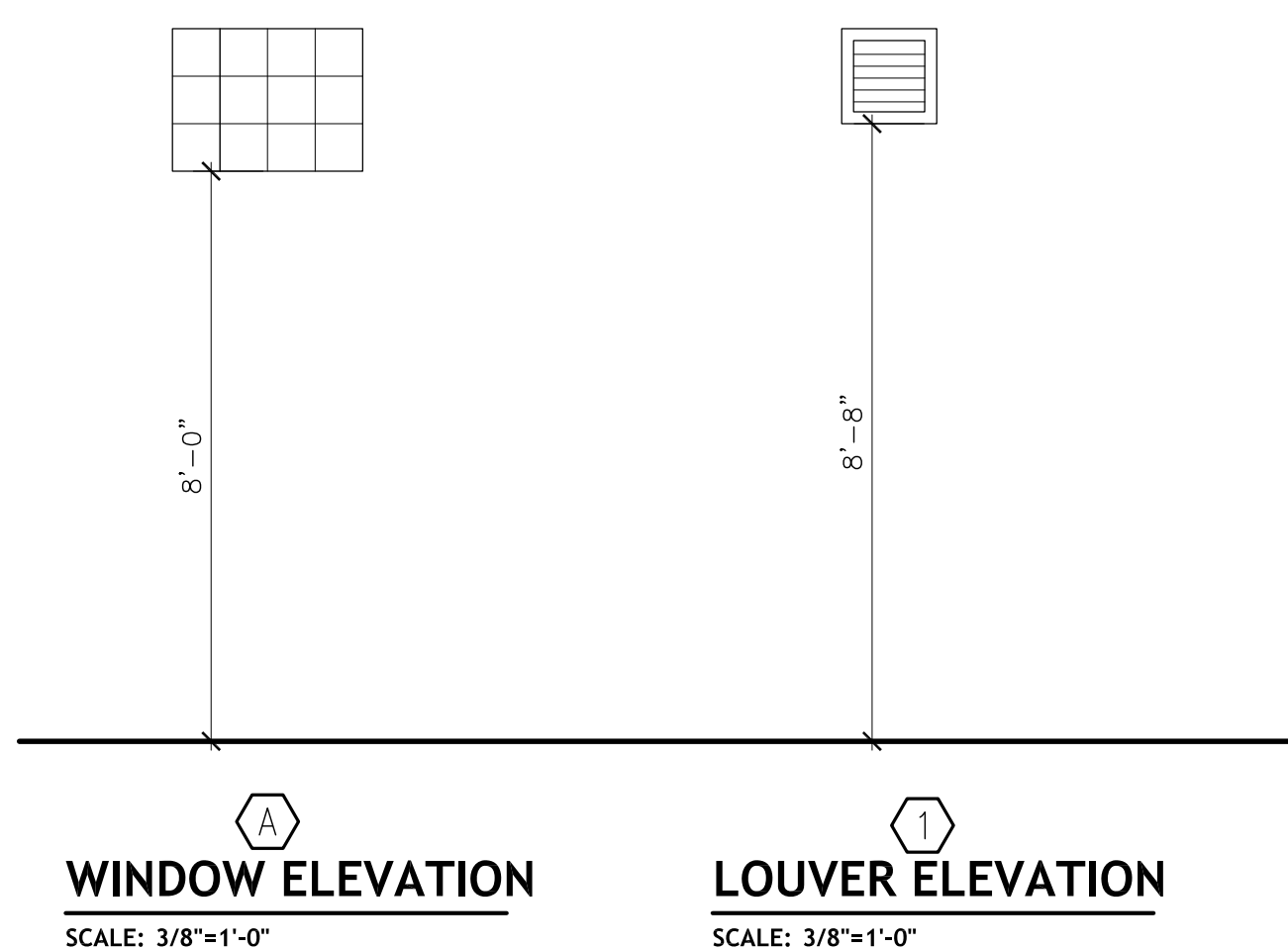
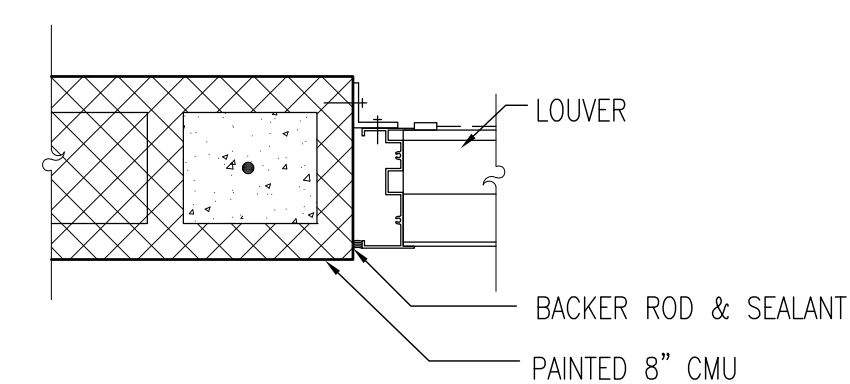
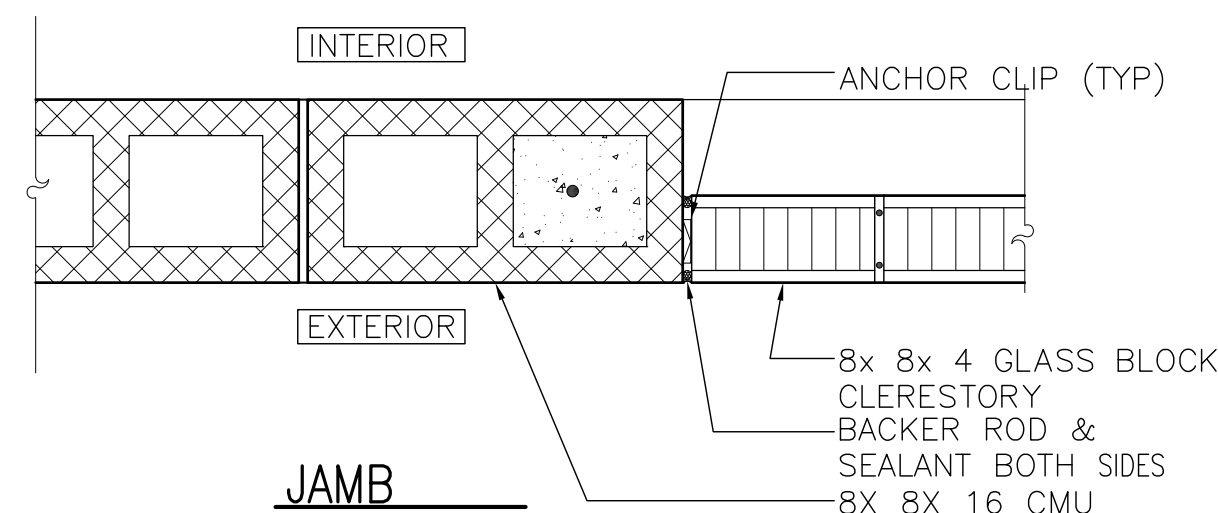
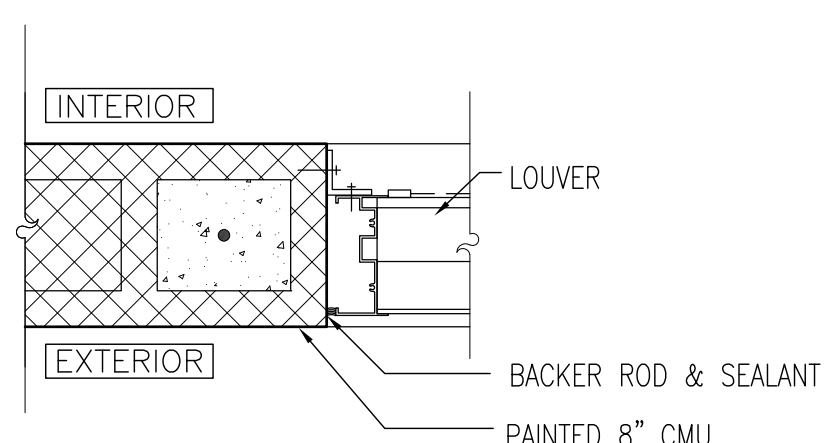
1 LOUVER AT CMU
SCALE: 1-1/2" = 1'-0"



2 GLASS BLOCK AT CMU
SCALE: 1-1/2" = 1'-0"



3 LOUVER AT DOOR (CMU)
SCALE: 1-1/2" = 1'-0"



ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)

BORRELLI PARTNERS
ARCHITECTURE PLANNING LANDSCAPE INTERIOR
720 VASSAR STREET
ORLANDO, FL 32804 | 407.418.1338

SIGNATURE AND DATED SEAL

CONSULTANTS

WINDOW SCHEDULE AND DETAILS

DRAWING TITLE

PROJECT NO.	17-109
PHASE	PERMIT SET
SCALE	AS NOTED
FILE NAME	17-109
DRAWN BY	RP
CHECKED BY	JLM
DATE	04-05-2018

A-504

HVAC SYMBOL LEGEND		
24x12	DUCT-FIRST DIM. IS WIDTH DUCT-SECOND DIM. IS HEIGHT	DUCT TAKE-OFF W/ VOLUME DAMPER
	DUCT ELBOW DOWN	POINT OF CONNECTION NEW TO EXISTING WORK
	DUCT ELBOW UP	POINT OF EXTENT OF REMOVAL OF EXISTING HVAC
	DUCT RISE	THERMOMETER
	DUCT DOWN	PRESSURE GAUGE
	DUCT UNDER POSITIVE PRESSURE	UNION OR FLANGE
	DUCT UNDER NEGATIVE PRESSURE	BALL OR BUTTERFLY VALVE
	ELBOW W/TURNING VANES	CHECK VALVE
	TAKE-OFF W/EXTRACTOR	MODULATING CONTROL VALVE
	FLEXIBLE DUCT	TWO POSITION CONTROL VALVE
	FLEXIBLE CONNECTION	PLUG VALVE W/ MEMORY
	SUPPLY AIR TERMINAL ARROW INDICATES THROW	FLEXIBLE PIPE
	RETURN OR EXHAUST AIR	STRAINER
	LINEAR DIFFUSERS	MANUAL AIR VENT
	SIDE MOUNTED EHD	AUTOMATIC AIR VENT
	BOTTOM MOUNTED EHD	3/4" HOSE END DRAIN PIPE
	FIRE DAMPER	CHWS - CHILLED WATER SUPPLY
	SMOKE DAMPER	CHWR - CHILLED WATER SUPPLY
	SMOKE AND FIRE DAMPER	HWS - HOT WATER SUPPLY
	VOLUME DAMPER	HWR - HOT WATER RETURN
	REMOTE VOLUME DAMPER	RHG - REFRIGERANT HOT GAS
	MOTORIZED DAMPER	RL - REFRIGERANT LIQUID
	BACKDRAFT DAMPER	RS - REFRIGERANT SUCTION
	SMOKE DETECTOR (DUCT MOUNTED)	D - CONDENSATE DRAIN
	CEILING ACCESS DOOR	AD - PIPE ELBOW DOWN
	DUCT ACCESS DOOR	AD - PIPE ELBOW UP
	HUMIDITY SENSOR	PE - PIPE ELBOW
	ROOM SENSOR	PT - PIPE TEE DOWN
	THERMOSTAT	PT - PIPE TEE UP
		R - ROUND

HVAC ABBREVIATIONS			
AC	AIR CONDITIONING	HD	HUB DRAIN
AHU	AIR HANDLING UNIT	HOA	HAND/OFF/AUTOMATIC
AF	ABOVE FINISHED FLOOR	HP	HORSEPOWER
BDD	BACKDRAFT DAMPER	HVAC	HEATING, VENTILATING & AIR CONDITIONING
BHP	BRAKE HORSEPOWER	H2O	WATER
BMS	BUILDING MANAGEMENT SYSTEM	INIT	INITIAL
BTU	BRITISH THERMAL UNIT	KSU	KITCHEN AIR SUPPLY UNIT
CF	CHEMICAL FEEDER	LAT	LVG. AIR TEMPERATURE
CFM	CUBIC FEET PER MINUTE	LD	LINEAR DIFFUSER
CLG	CEILING	LR	LINEAR RETURN
CYC	CYCLES	LVG	LEAVING
COND	CONDENSATE	LWT	LVG. WATER TEMPERATURE
CC	COOLING COIL	MAU	MAKE UP AIR UNIT (KITCHEN HOOD)
CD	CEILING DIFFUSER	MBH	MEGA BTU PER HOUR
CG	CEILING GRILLE	MD	MOTORIZED DAMPER
DIM	DIMENSION	NC	NOISE CRITERIA
DB	DRY BULB	NIC	NOT IN CONTRACT
"F	DEGREES FARENHEIT	OA	OUTSIDE AIR
DWG	DRAWING	OPER	OPERATING
EA	EXHAUST AIR	OV	OUTLET VELOCITY
EAT	ENTERING AIR TEMPERATURE	PCF	PUMP, CHEMICAL FEED
EG	EXHAUST AIR GRILLE	PCH	PUMP, CHILLED WATER
EHC	ELECTRIC HEATING COIL	PD	PRESSURE DROP
EHD	ELECTRIC HEATER, DUCT	PH	PHASE
EHU	ELECTRIC UNIT HEATER	RG	RETURN AIR GRILLE
EHW	ELECTRIC HEATER, WALL	ROT	ROTATION
ENT	ENTERING	RPM	REVOLUTION PER MINUTE
ER	EXHAUST AIR REGISTER	RVD	REMOTE VOLUME DAMPER
ENT	ENT. WATER TEMPERATURE	SA	SUPPLY AIR
F	FILTER	SENS	SENSIBLE
FCU	FAN COIL UNIT	SD	SPLITTER DAMPER
EF	EXHAUST FAN	SP	STATIC PRESSURE
EFG	EXHAUST FAN, GREASE	SR	SUPPLY AIR REGISTER
FF	FLY FAN	TG	TRANSFER AIR GRILLE
FPI	FINS PER INCH	TEMP	TEMPERATURE
FPM	FEET PER MINUTE	UD	UNDERCUT DOOR
FR	FAN, RETURN	VG	VENT, GRAVITY
SF	SUPPLY FAN	W	WATTS
GPM	GALLONS PER MINUTE	WB	WET BULB
		W/	WITH

HVAC GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2017 FLORIDA BUILDING CODE (6TH EDITION), THE 2017 FLORIDA MECHANICAL CODE (6TH EDITION), THE 2017 FLORIDA ENERGY EFFICIENCY CODE (6TH EDITION) AND THE ORANGE COUNTY BUILDING DEPARTMENT REQUIREMENTS AND ALL OTHER APPLICABLE CODES AND STANDARDS.
- REFER TO ARCHITECTURAL DRAWINGS FOR CLEARANCES WITHIN THE CEILING SPACE, MECHANICAL ROOMS, LOCATIONS AND SIZES OF BEAMS AND CEILING AND SOFFIT HEIGHTS.
- DUCTWORK AND EQUIPMENT LOCATIONS AND CLEARANCES SHALL BE COORDINATED WITH GENERAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL CONTRACTORS. REFER TO ARCHITECTURAL PLANS FOR BUILDING SECTIONS AND DETAILS.
- CONNECTION TO ALL EQUIPMENT SHALL BE VERIFIED WITH MANUFACTURERS CERTIFIED DRAWINGS. TRANSITIONS TO ALL EQUIPMENT SHALL BE VERIFIED AND PROVIDED FOR ALL EQUIPMENT FURNISHED.
- COORDINATE DIFFUSER, REGISTER AND GRILLE LOCATION WITH LIGHTING LOCATIONS AND ARCHITECTURAL CEILING PLANS. ALSO COORDINATE THE TYPE OF DIFFUSER FRAME WITH THE CEILING TYPE.
- ALL EQUIPMENT SHALL BE PROPERLY SUPPORTED AND ISOLATED TO PREVENT NOISE AND VIBRATION TRANSMISSION. ALL AIR HANDLING EQUIPMENT SHALL BE SUPPORTED OR SUSPENDED WITH SPRING VIBRATION ISOLATORS PADS. ALL CONNECTIONS BETWEEN AIR HANDLING EQUIPMENT AND DUCTWORK SHALL BE CANVAS FLEXIBLE CONNECTORS.
- ALL MECHANICAL EQUIPMENT SHALL BE LOCATED WITH RESPECT TO BUILDING CONSTRUCTION AND OTHER EQUIPMENT SO AS TO PERMIT ACCESS TO THE MECHANICAL EQUIPMENT IN CONFORMITY WITH ANY CLEARANCE WHICH MAY BE RECOMMENDED BY THE MANUFACTURER OF THE EQUIPMENT. SUFFICIENT CLEARANCE SHALL BE MAINTAINED FOR CLEANING COILS, MOTORS, BURNERS, AS WELL AS CHANGING FILTERS. ALL EQUIPMENT SHALL BE LOCATED WITHIN THE MECHANICAL ROOM AND CEILING SPACES WITH ADEQUATE CLEARANCES FOR REPAIR AND MAINTENANCE. ALL PIPING AND DUCTWORK SHALL BE INSTALLED TO PROVIDE ADEQUATE CLEARANCE FOR ACCESS TO ALL EQUIPMENT. INSTALLATION OF ALL MECHANICAL EQUIPMENT SHALL COMPLY WITH THE MANUFACTURERS SPECIFICATION AND CLEARANCE REQUIREMENT.
- ALL DUCT DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS.
- THE INSIDE OF ALL DUCTS VISIBLE THRU THE FACE OF DIFFUSERS, REGISTERS, AND GRILLES SHALL BE PAINTED FLAT BLACK WITH NON TOXIC PAINT.
- ALL EXHAUST AIR DUCTWORK SHALL BE GALVANIZED STEEL SHEETS. FABRICATION AND INSTALLATION SHALL BE IN ACCORDANCE WITH LATEST EDITION OF SMACNA DUCT CONSTRUCTION STANDARDS FOR A 2 INCH PRESSURE CLASSIFICATION.
- ALL DUCT JOINTS SHALL BE SEALED WITH APPROVED MASTIC.
- PROVIDE HANGER STRAPS FOR ALL DUCTS MADE OF 2" WIDE, 22 GAGE GALVANIZED STEEL-SPACED ACCORDING TO SMACNA STANDARDS AND ALL OTHER APPLICABLE GOVERNING CODES AND STANDARDS.
- ALL DUCT BRANCH TAKE OFFS FROM MAIN DUCT FOR INDIVIDUAL AIR OUTLETS, INLETS AND BOXES SHALL HAVE BALANCING DAMPERS.
- ALL DUCTWORK STORED ON SITE OR ALREADY INSTALLED SHALL HAVE ALL OPEN ENDS SEALED WITH VISQUINE TO PREVENT DUST AND DEBRIS FROM ACCUMULATING INSIDE OF THE DUCTWORK. INTERIORS OF ALL DUCTWORK SHALL BE THOROUGHLY CLEANED PRIOR TO INSTALLATION.
- ALL DAMPERS AND EXTRACTORS SHALL HAVE LOCKING QUADRANTS AND SHALL BE ACCESSIBLE.
- PROVIDE REMOTE VOLUME DAMPER (RVD) OPERATORS IN ALL NON-ACCESSIBLE CEILING. EQUAL TO YOUNG REGULATOR COMPANY MODEL 270-896C BOWDEN CABLE CONTROL UNIT OR METROPOLITAN AIR. CONTROL FOR EACH REMOTE VOLUME DAMPER SHALL BE LOCATED WITHIN THE DIFFUSER OR REGISTER BEING SERVED.
- BEVELED TAKE OFFS AND DAMPERS SHALL BE INSTALLED IN ALL BRANCH DUCTWORK LEADING FROM MAIN TRUNK LINES.
- ALL SPLITTER DAMPERS SHALL BE BALANCED AND SET PRIOR TO THE INSTALLATION OF THE CEILING.
- OUTSIDE AIR INTAKE LOUVERS SHALL HAVE 1/2" x 1/2" MINIMUM MESH SCREEN, AND SHALL BE LOCATED AS HIGH ABOVE FINISH GRADE AS POSSIBLE.
- OUTSIDE AIR WALL LOUVERS SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ANY EXHAUST AIR DISCHARGE, COMBUSTION AIR DISCHARGE OR ANY PLUMBING VENT TERMINATION.
- ALL WALL LOUVERS SHALL BE ALUMINUM CONSTRUCTION AND SHALL BE FLORIDA PRODUCT APPROVED.
- EXHAUST AIR OUTLETS SHALL BE INSTALLED A MINIMUM OF 10'-0" FROM FRESH AIR INTAKES OF MECHANICAL EQUIPMENT AS WELL AS ALL OPERABLE WINDOWS AND DOORS.
- ALL FANS SHALL BE PROPERLY SUPPORTED AND ISOLATED TO PREVENT NOISE AND VIBRATION TRANSMISSION. ALL CONNECTIONS BETWEEN FANS AND DUCTWORK SHALL BE CANVAS FLEXIBLE CONNECTORS.
- ALL EQUIPMENT LOCATED WITHIN THE CEILING SPACES SHALL HAVE ADEQUATE CLEARANCES FOR REPAIR AND MAINTENANCE. ALL PIPING AND DUCTWORK SHALL BE INSTALLED TO PROVIDE ADEQUATE CLEARANCE FOR ACCESS TO ALL EQUIPMENT.

WL-1 WALL LOUVER: EXTRUDED ALUMINUM, WEATHERPROOF, WIND DRIVEN RAIN RESISTANT, BIRD SCREEN, BRONZE ANODIZED FINISH, FLORIDA PRODUCT APPROVED. GREENHECK MODEL EHH 501X OR EQUAL.

GV-1 GRAVITY VENT: ROOF MOUNTED, ROOF CURB, EXHAUST, SPUN ALUMINUM, BIRD SCREENS AND INSECT SCREENS ON INTAKE, 1300 CFM AT .14" PRESSURE DROP, 14"x14" THROAT, 20"x20" CURB CAP, 28"x27" HOOD, GREENHECK MODEL FGR-14x14 OR EQUAL.

SPECIAL O.C. BUILDING DEPARTMENT HVAC NOTES

- ALL DUCTWORK SHALL BE SUPPORTED PER CODE. PROVIDE HANGER STRAPS FOR ALL DUCTS MADE OF 2" WIDE, 22 GAGE GALVANIZED STEEL. SPACE SUPPORT STRAPS ACCORDING TO SMACNA GUIDELINES AND THE ORANGE COUNTY BUILDING DEPARTMENT REQUIREMENTS.
- ALL EXHAUST AIR DUCTWORK SHALL BE GALVANIZED STEEL SHEETS. FABRICATION AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF SMACNA DUCT CONSTRUCTION STANDARDS FOR A 2" PRESSURE CLASSIFICATION. ALL DUCT JOINTS SHALL BE MECHANICALLY FASTENED AND SEALED TO 100% CLOSURE WITH MASTIC. ENTIRE INSTALLATION SHALL BE IN ACCORDANCE WITH SMACNA GUIDELINES AND THE ORANGE COUNTY BUILDING DEPARTMENT.
- ALL GRILLES SHALL HAVE A MINIMUM FLAME SPREAD RATING OF NOT OVER 25 AND A MINIMUM SMOKE DEVELOPED RATING OF NOT OVER 50 AND SHALL BE IN COMPLIANCE WITH SECTIONS 603.15 AND 603.15.1 OF THE 2014 FLORIDA MECHANICAL CODE (5TH EDITION).
- ALL BRANCH DUCTS SERVING INDIVIDUAL GRILLES SHALL HAVE BALANCING DAMPERS AT THE CONNECTION TO THE MAIN TRUNK DUCT.
- REFER TO THE FLOOR PLAN AND AIR BALANCE SCHEDULES FOR OVERALL BUILDING AIR BALANCE AND EXHAUST AIR TO EACH SPACE.

FAN SCHEDULE

UNIT NUMBER	PERFORMANCE DATA					CONSTRUCTION DATA				ELECTRICAL			MANUFACTURER/MODEL	WEIGHT (LBS)	NOTES				
	CFM	SP	OV (FPM)	RPM	SONES	BHP	FAN TYPE	CLASS	ROT	DISCH	HP	WATTS				START TYPE	VOLTS	PHASE	CYCLES
EF-1.1	1300	.50"	--	1239	4.0	--	INLINE CENTRIFUGAL	--	--	--	3/4	--	--	120	1	60	GREENHECK CSP-A1750 (OR EQUAL)	72	1-4

NOTES

- FURNISH FAN WITH BACKDRAFT DAMPER.
- FURNISH FAN WITH ROOF CAP.
- FURNISH FAN WITH SOLID STATE VARIABLE SPEED CONTROLLER. MOUNT CONTROLLER TO FAN CABINET IN AN ACCESSIBLE LOCATION.
- FURNISH FAN WITH FACTORY ISOLATION KIT WITH SPRING VIBRATION ISOLATORS AND BRACKETS.

AIR GRILLE + REGISTER SCHEDULE

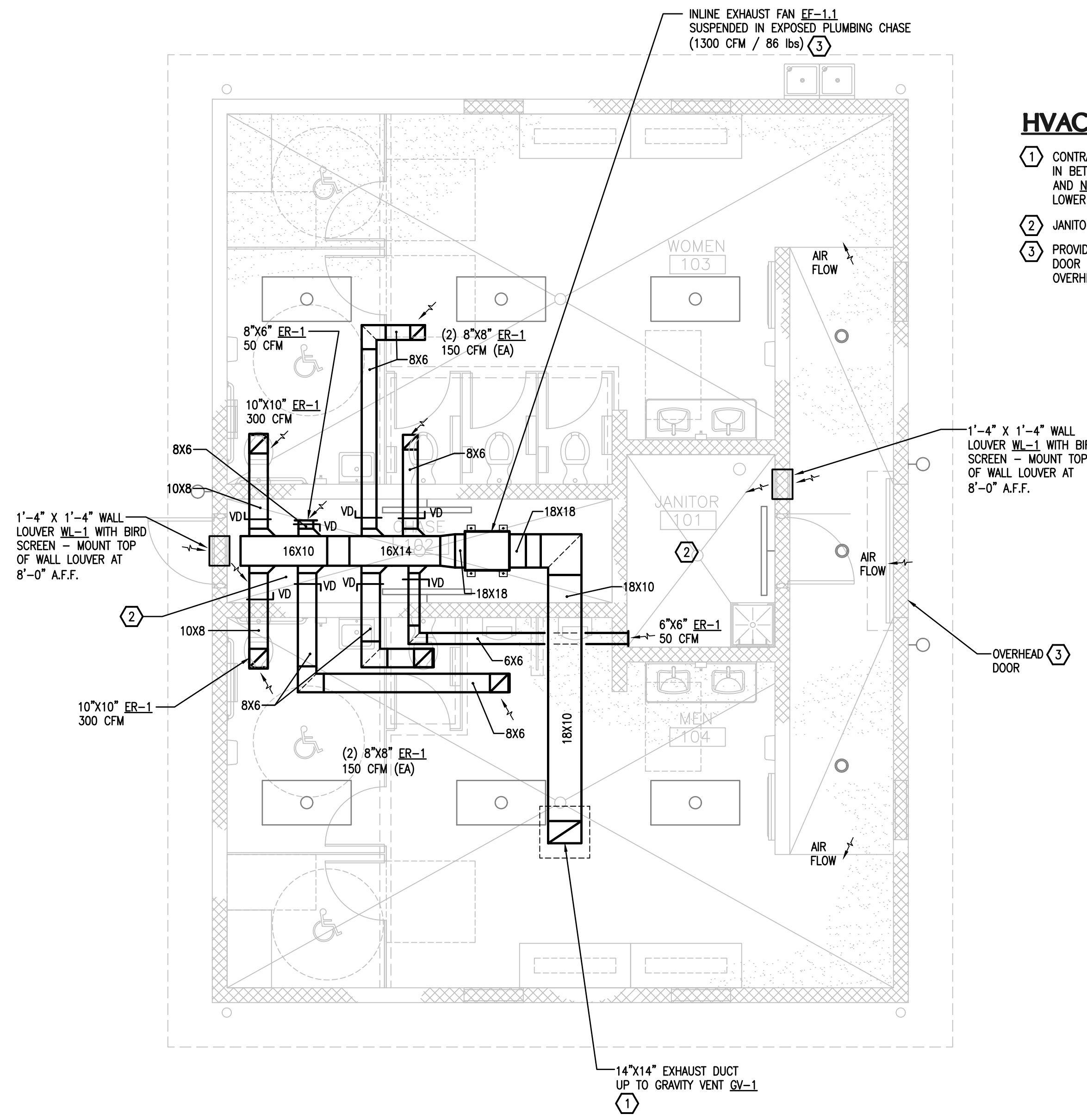
UNIT NUMBER	SERVICE	MOUNT	C.F.M. RANGE	SIZE L"xH"	N.C. MAX	FRAME	MAX. P.D. IN. W.G.	PATTERN	DAMPER	GRID	CONSTRUCTION	FINISH	MANUFACTURER/MODEL	NOTES
ER-1	EXHAUST	CLG	SEE DWG	SEE DWG	20	SURFACE	0.073	EGG CRATE	NO	1/2"	ALUMINUM	WHITE	TITUS 50F (OR EQUAL)	1-3

- ALL GRILLES, REGISTERS AND DIFFUSERS SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50 IN COMPLIANCE WITH SECTIONS 603.15 AND 603.15.1 OF THE 2010 FLORIDA BUILDING CODE.
- PAINT FLAT BLACK INSIDE OF DUCTS BEHIND GRILLES.
- PROVIDE T-BAR PLASTER FRAME FOR ALL REGISTERS & GRILLES LOCATED IN HARD CEILING APPLICATION.

ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)

 BORRELLI PARTNERS ARCHITECTURE PLANNING LANDSCAPE INTERIOR 770 VASSAR STREET ORLANDO, FL 32804 (407) 418-1338 CONTRACTORS ARE REQUIRED TO BE A PART OF ORANGE COUNTY BUILDING DEPARTMENT REGISTERED CONTRACTORS LIST. IF PARTY EMPLOYED BY ARCHITECT, COPYRIGHT BY BORRELLI PARTNERS, INC. 2017		SIGNATURE AND DATED SEAL	
 BOBES ASSOCIATES CONSULTING ENGINEERS 11111 BOBES BLVD, SUITE 100 ORLANDO, FL 32829 FLORIDA STATE LICENSE NUMBER: 5131		LICENSE #	
DRAWING TITLE		CONSULTANTS	
PROJECT ADDRESS 4801 W. COLONIAL DR. ORLANDO, FLORIDA 32808		OWNER NAME AND ADDRESS ORANGE COUNTY PARKS 400 E. SOUTH STREET 5TH FLOOR ORLANDO, FLORIDA 32801	
PROJECT NO. M-001	REV. 17-109 PHASE PERMIT SET SCALE 1/4"=1'-0" FILE NAME 03-12-16-001 DRAWN BY ME CHECKED BY ABJ DATE 04-05-2018	HVAC GENERAL NOTES, SYMBOLS AND SCHEDULES	

1 RESTROOM FLOOR PLAN - HVAC
M-101 1/4"=1'-0"



HVAC KEY NOTES

- ① CONTRACTOR TO COORDINATE ALIGNMENT OF ROOF CAP IN BETWEEN RIDGES OF STANDING SEAM METAL ROOF AND NOT ON A SEAM. LOCATE ROOF CAP ON THE LOWER HALF OF THE SLOPED ROOF.
- ② JANITOR'S CLOSET/CHASE HAS NO CEILING.
- ③ PROVIDE INTERLOCK BETWEEN EF-1.1 AND OVERHEAD DOOR SWITCH SO THAT EF-1.1 DOES NOT RUN IF THE OVERHEAD DOOR IS CLOSED.

SEQUENCE OF OPERATION
EXHAUST FANS EF-1.1

EXHAUST FAN EF-1.1 SHALL BE MONITORED (ON/OFF STATUS) AND CONTROLLED BY THE BAS SYSTEM.

EXHAUST FAN EF-1.1 SHALL BE OFF DURING BUILDING UNOCCUPIED HOURS.

EXHAUST FAN EF-1.1 SHALL BE CONTROLLED BY A TIME CLOCK AND SHALL OPERATE DURING BUILDING OCCUPIED HOURS.

EF-1.1 SHALL BE INTERLOCKED WITH THE OPENING OF THE OVERHEAD DOOR. IF THE OVERHEAD DOOR IS CLOSED THEN EF-1.1 SHALL NOT OPERATE.

ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)

PROJECT NO.	17-109	REV.	DESCRIPTION	DATE
PHASE	PERMIT SET			
SCALE	1/4"=1'-0"			
FILE NAME	13-125 E:01			
DRAWN BY	MB			
CHECKED BY	ABJ			
DATE	04-05-2018			

DRAWING TITLE

FLOOR PLAN
HVAC

CONSULTANTS

BORES ASSOCIATES

150 CIRCLE DRIVE, AUSTIN, TX 78751
TEL: 512.452.3333
FLORIDA STATE P.E. NUMBER: 8131

SIGNATURE AND DATED SEAL

AUGUSTO E. BORES, JR., P.E.
FLORIDA P.E. # 39410

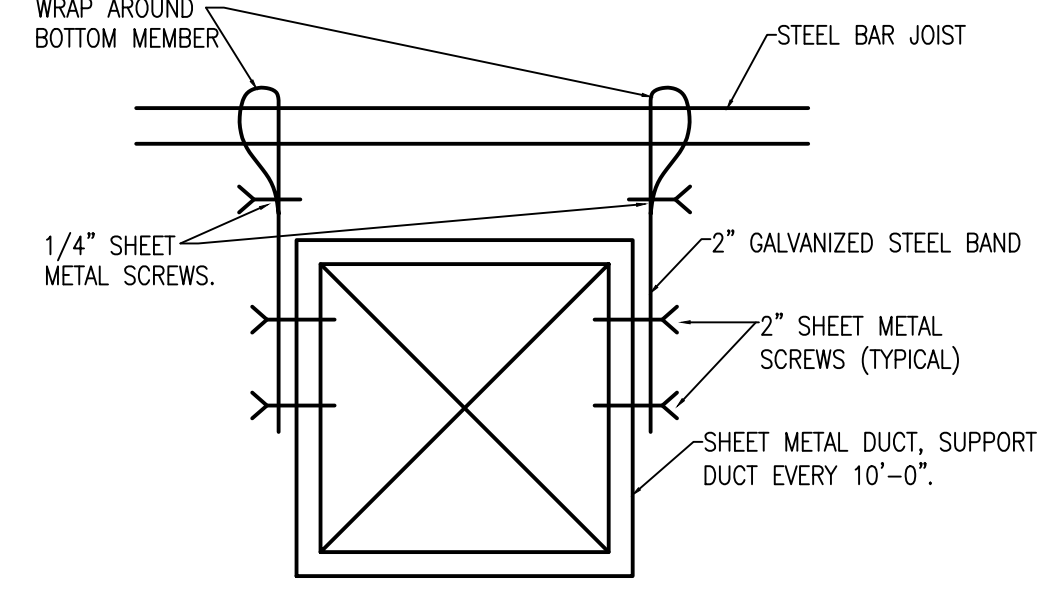
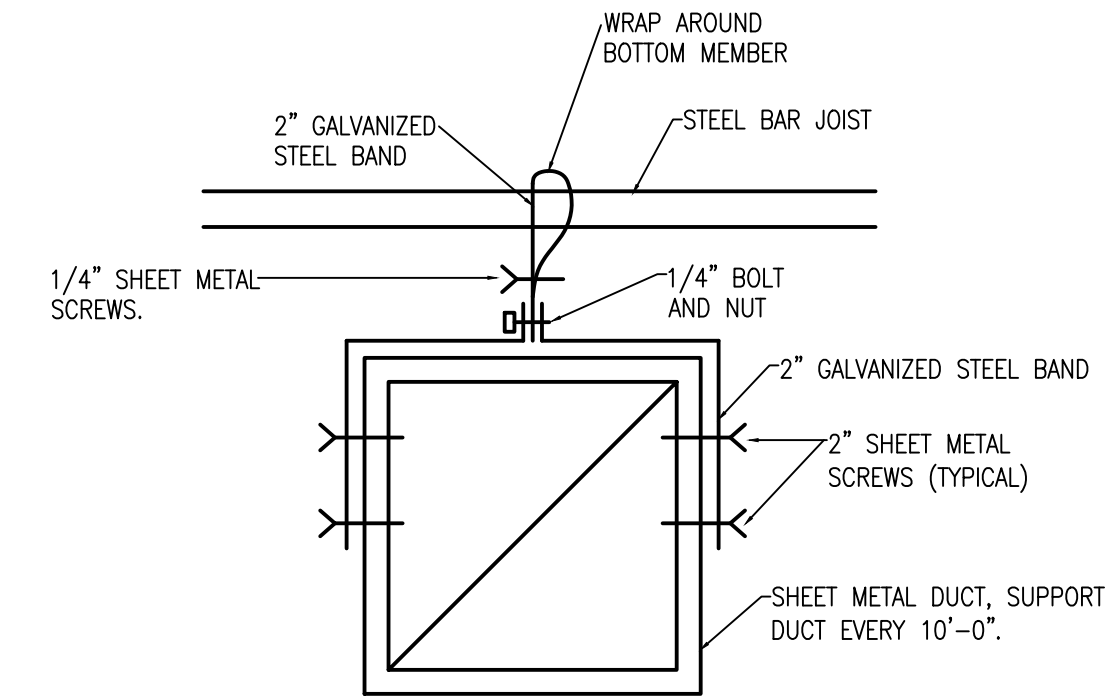
BORRELLI + PARTNERS

720 VUSSAR STREET
ORLANDO, FLORIDA 32818-1338

ARCHITECTURE PLANNING LANDSCAPE INTERIOR

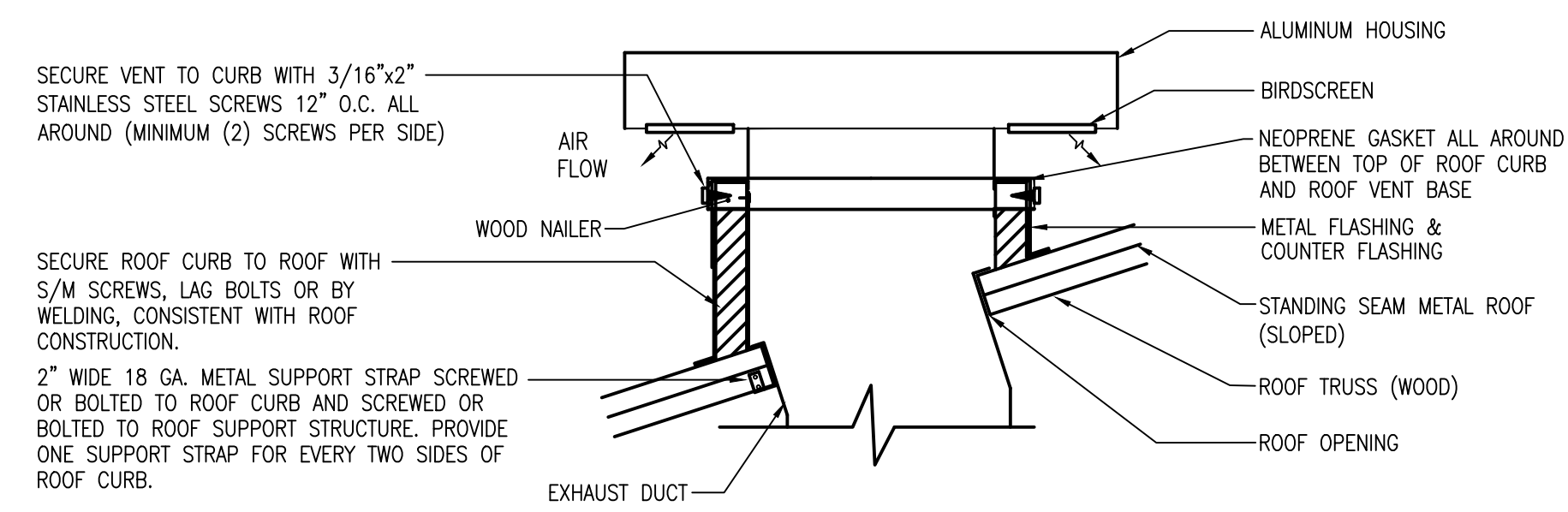
CONTRACTOR: THE BARNETT CENTER FOR BARNETT PARKS, 1300 W. COLONIAL DR., ORLANDO, FLORIDA 32801

M-101



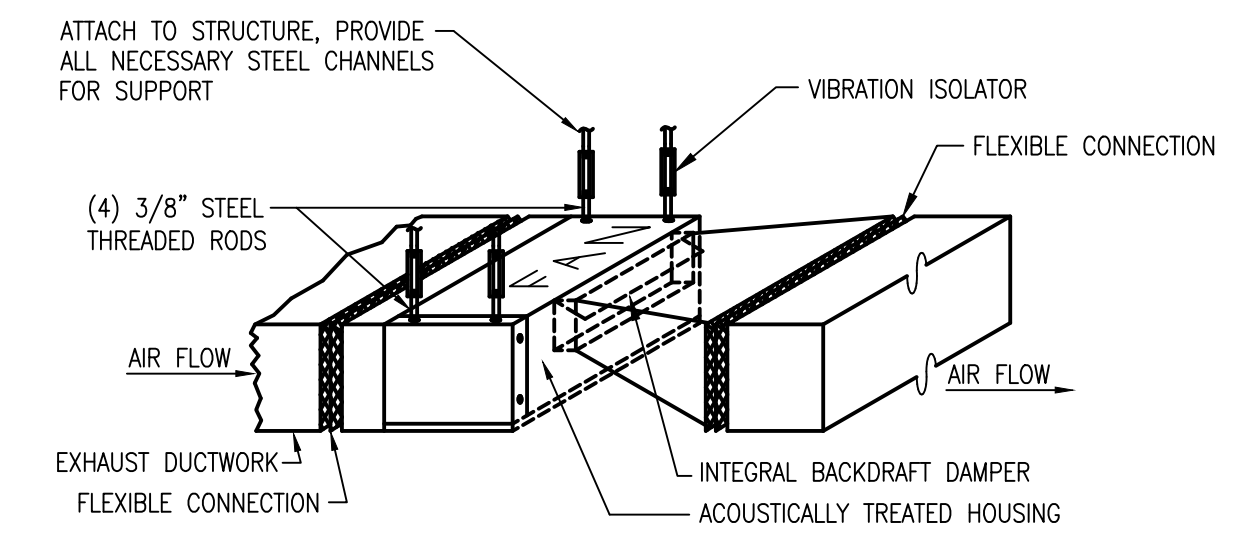
NOTES
1. INSTALLATION SHALL BE IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS - LATEST EDITION

SHEET METAL DUCT HANGING DETAIL
NOT TO SCALE

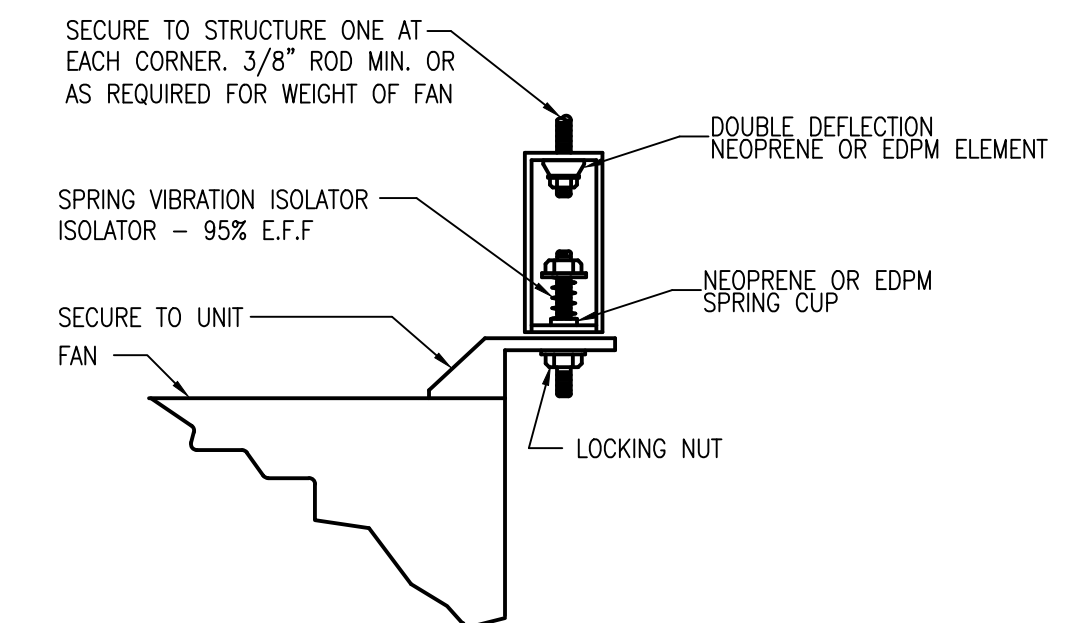


INSTALLATION SHALL MEET WIND LOAD REQUIREMENTS AS SET FORTH IN THE 2017 FLORIDA BUILDING CODE (6TH EDITION)

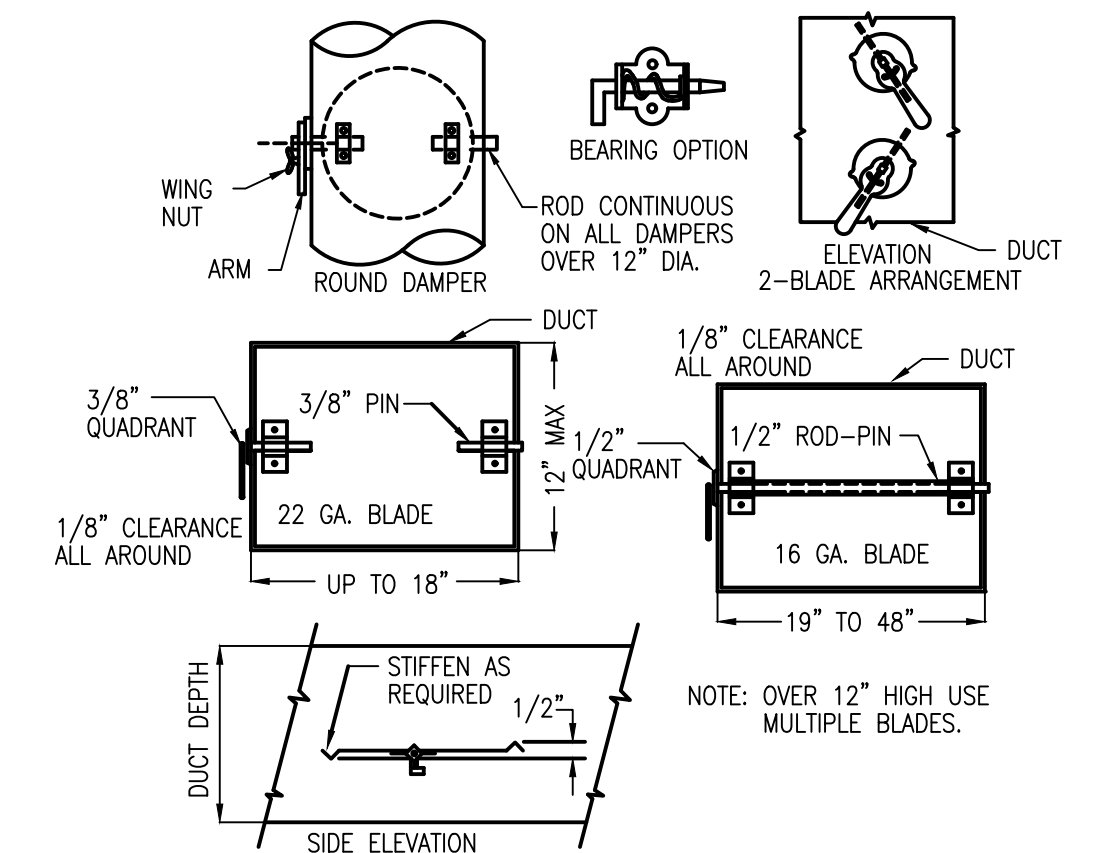
NOTE: ROOF VENT SHALL BE A GREENHECK MODEL FGR OR EQUAL, ROOF VENT CURB TO FIT BETWEEN METAL ROOF SEAMS.
ROOF MOUNTED EXHAUST AIR VENT DETAIL
NOT TO SCALE



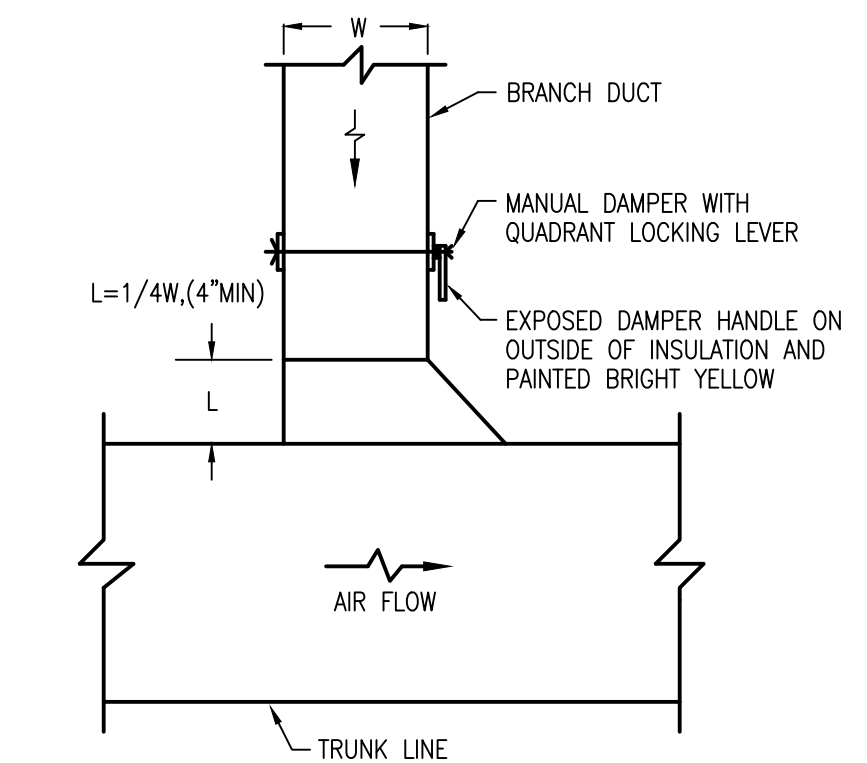
INLINE EXHAUST FAN DETAIL
NOT TO SCALE



FAN SUSPENSION DETAIL
NOT TO SCALE



VOLUME DAMPERS-SINGLE BLADE TYPE
NOT TO SCALE



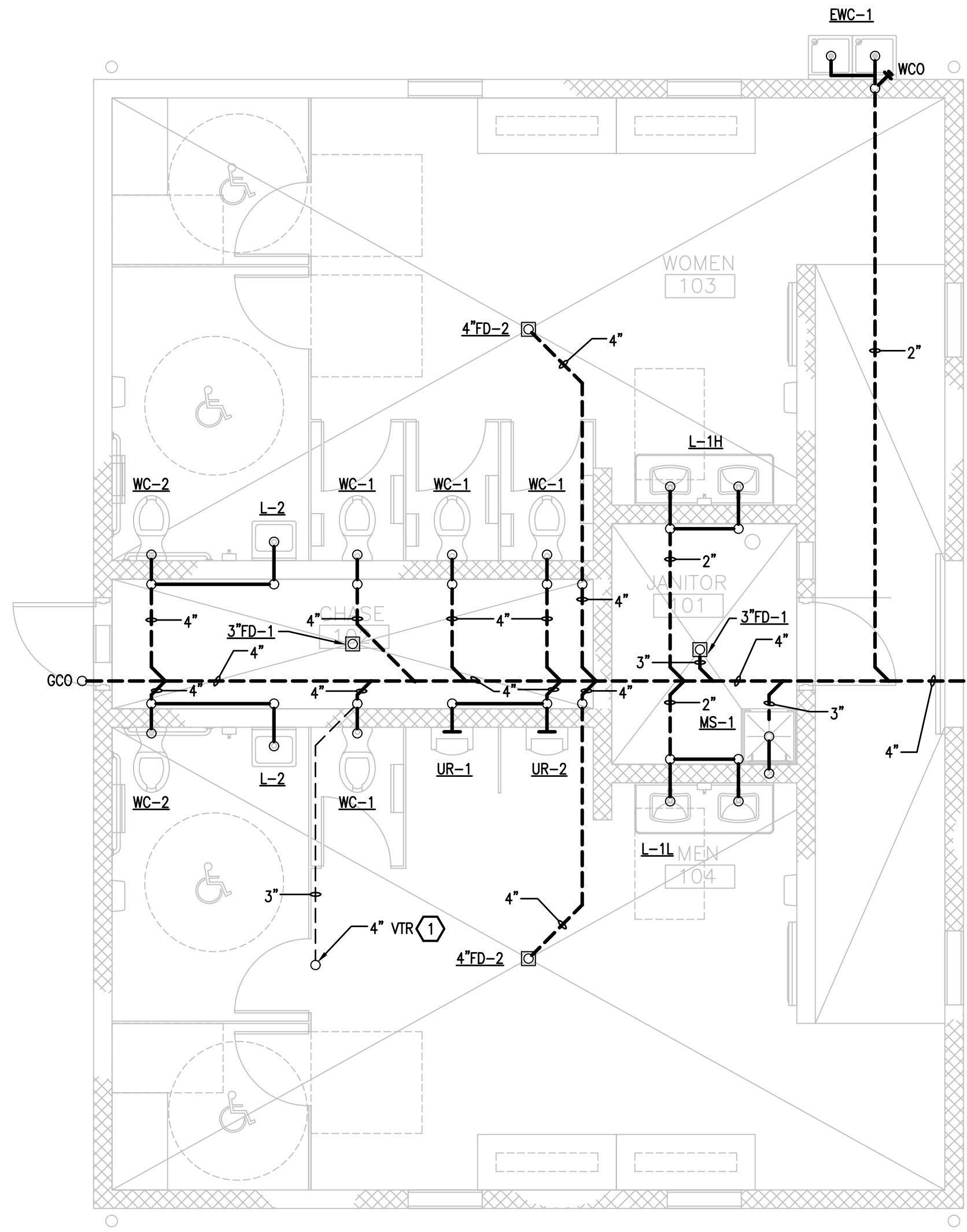
TYPICAL RETURN OR EXHAUST DUCT CONNECTION DETAIL
NOT TO SCALE

ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)

<p>BORRELLI PARTNERS ARCHITECTURE, PLANNING, LANDSCAPE INTERIOR</p> <p>770 VASSAR STREET ORLANDO, FL 32804 (407) 418-1338</p>		<p>CONTRACT DOCUMENTS ARE THE PROPERTY OF BORRELLI PARTNERS AND NOT BE LOANED, REPRODUCED, COPIED, REPRODUCED, OR IN ANY MANNER REPRODUCED WITHOUT THE WRITTEN PERMISSION OF BORRELLI PARTNERS.</p>	
<p>PROJECT NO. 17-109</p>		<p>DATE 04-05-2018</p>	
<p>PHASE PERMIT SET</p>		<p>DESCRIPTION</p>	
<p>SCALE 1/4"=1'-0"</p>		<p>PROJECT ADDRESS</p>	
<p>FILE NAME 03-13-18-01</p>		<p>4801 W COLONIAL DR. ORLANDO, FLORIDA 32808</p>	
<p>DRAWN BY ME</p>		<p>OWNER NAME AND ADDRESS</p>	
<p>CHECKED BY ABJ</p>		<p>ORANGE COUNTY PARKS 400 E. SOUTH STREET 5TH FLOOR ORLANDO, FLORIDA 32801</p>	
<p>DATE</p>		<p>DRAWING TITLE</p>	
<p>04-05-2018</p>		<p>HVAC DETAILS</p>	
<p>CONSULTANTS</p>		<p>SIGNATURE AND DATED SEAL</p>	
<p>A B C E</p>		<p>BOBES ASSOCIATES CONSULTING ENGINEERS 1111 ORANGE AVE SUITE 200 ORLANDO, FL 32801 FLORIDA STATE LICENSE NUMBER: 5131</p>	
<p>BOBES, E. BOBES, JR., P.E. FLORIDA P.E. # 99410</p>		<p>LICENSE #</p>	

M-501

1 RESTROOM FLOOR PLAN - PLUMBING - SANITARY
 P-101 1/4"=1'-0"



PLUMBING KEY NOTES
 1 ROOF VENT PENETRATION SHALL BE COORDINATED TO PENETRATE THE STANDING SEAM METAL ROOF IN THE CENTER OF ROOF PANEL AND NOT AT A SEAM.


P-101


ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)


PROJECT NO.	17-109
PHASE	PERMIT SET
SCALE	1/4"=1'-0"
FILE NAME	13-125 E:01
DRAWN BY	MB
CHECKED BY	ABJ
DATE	04-02-2018

PROJECT ADDRESS	4801 W COLONIAL DR. ORLANDO, FLORIDA 32809
OWNER NAME AND ADDRESS	ORANGE COUNTY PARKS 400 E. SOUTH STREET 5TH FLOOR ORLANDO, FLORIDA 32801

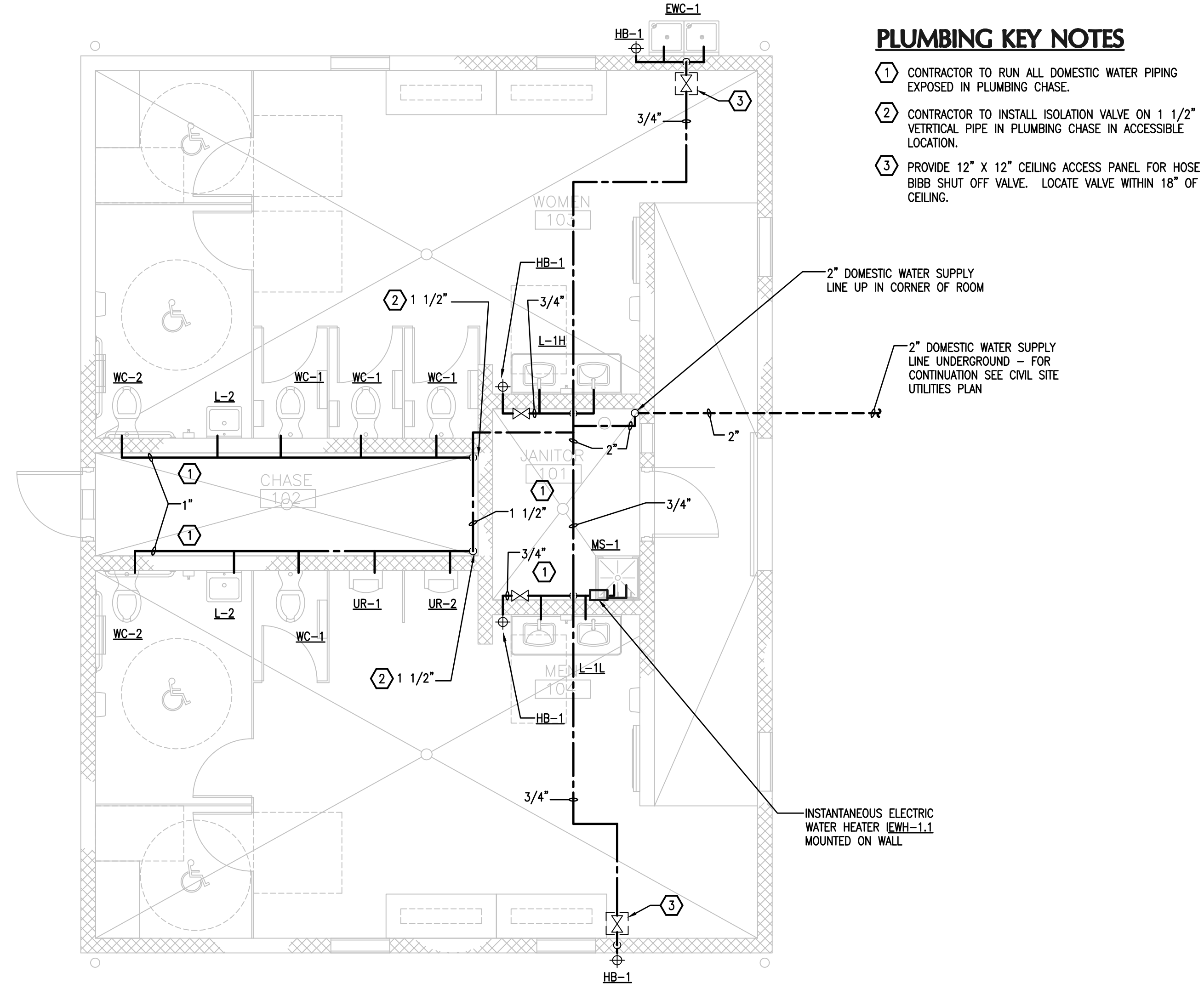
DRAWING TITLE
 FLOOR PLAN
 PLUMBING - SANITARY

CONSULTANTS

BOBES ASSOCIATES
 150 CIRCLE DRIVE, MAITLAND, FL 32751
 TEL: 407-823-3300
 FLORIDA STATE P.E. NUMBERS: 8131

SIGNATURE AND DATED SEAL

 AUGUSTO E. BOBES, JR., P.E.
 FLORIDA P.E. # 39410
 LICENSE #


BORRELLI + PARTNERS
 ARCHITECTURE PLANNING LANDSCAPE INTERIOR
 720 VASSAR STREET
 ORLANDO, FLORIDA 32801
 CONSTRUCTION PERMITS AND SEALS FOR ARCHITECTURE, INTERIOR DESIGN, LANDSCAPE ARCHITECTURE, PLANNING, AND PLUMBING.
 LICENSE #

1 RESTROOM FLOOR PLAN - PLUMBING - DOMESTIC WATER
P-102 1/4"=1'-0"



PLUMBING KEY NOTES

- 1 CONTRACTOR TO RUN ALL DOMESTIC WATER PIPING EXPOSED IN PLUMBING CHASE.
- 2 CONTRACTOR TO INSTALL ISOLATION VALVE ON 1 1/2" VERTICAL PIPE IN PLUMBING CHASE IN ACCESSIBLE LOCATION.
- 3 PROVIDE 12" X 12" CEILING ACCESS PANEL FOR HOSE BIBB SHUT OFF VALVE. LOCATE VALVE WITHIN 18" OF CEILING.

2" DOMESTIC WATER SUPPLY LINE UP IN CORNER OF ROOM

2" DOMESTIC WATER SUPPLY LINE UNDERGROUND - FOR CONTINUATION SEE CIVIL SITE UTILITIES PLAN

INSTANTANEOUS ELECTRIC WATER HEATER (WH-1) MOUNTED ON WALL

ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)

PROJECT NO.	REV.	DESCRIPTION	DATE
17-109			
PERMIT SET			
SCALE			
FILE NAME			
DRAWN BY			
CHECKED BY			
DATE			

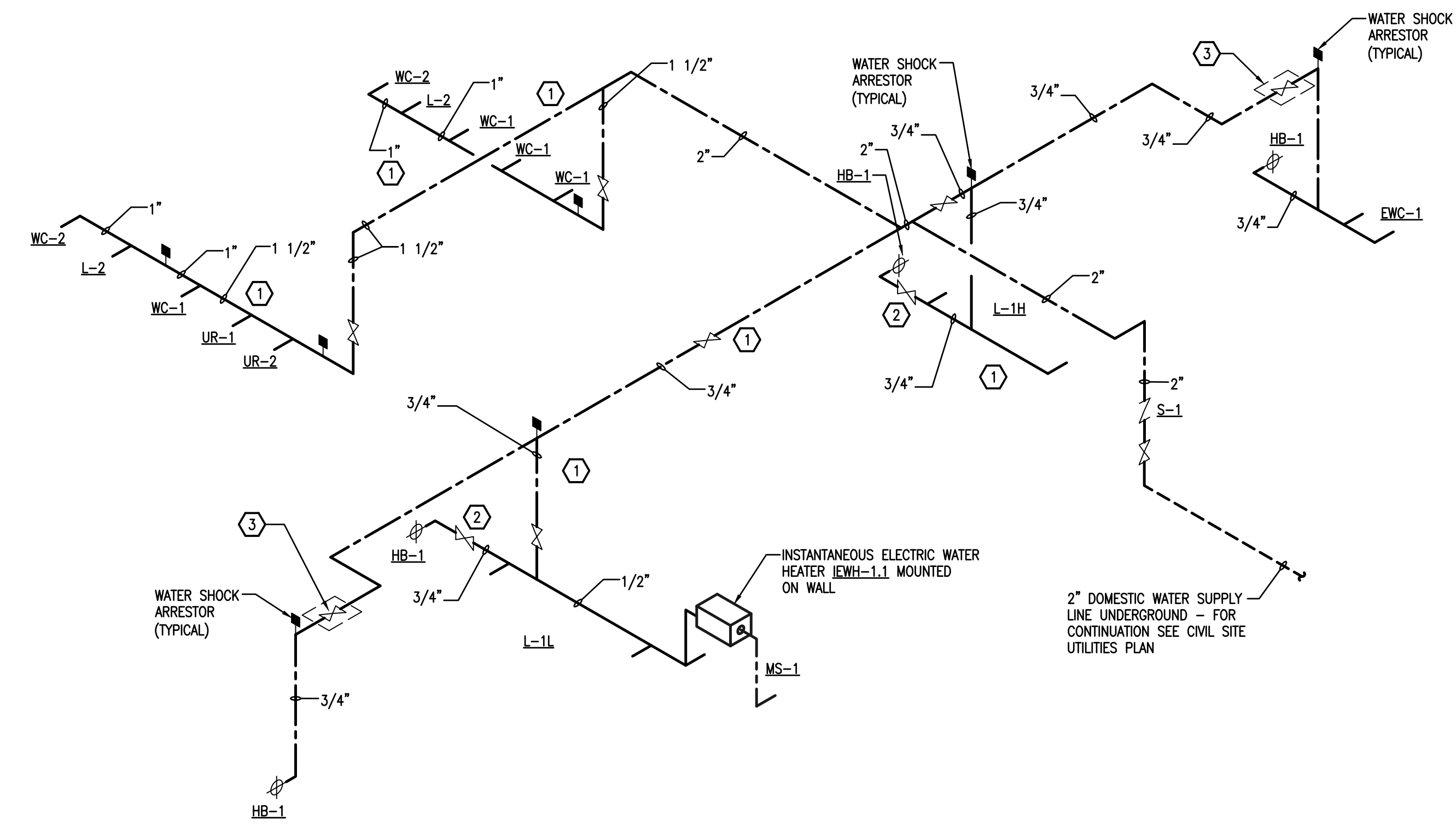
PROJECT ADDRESS	4801 W COLONIAL DR. ORLANDO, FLORIDA 32808
OWNER NAME AND ADDRESS	ORANGE COUNTY PARKS 400 E. SOUTH STREET 5TH FLOOR ORLANDO, FLORIDA 32801

DRAWING TITLE
FLOOR PLAN
PLUMBING - DOMESTIC WATER

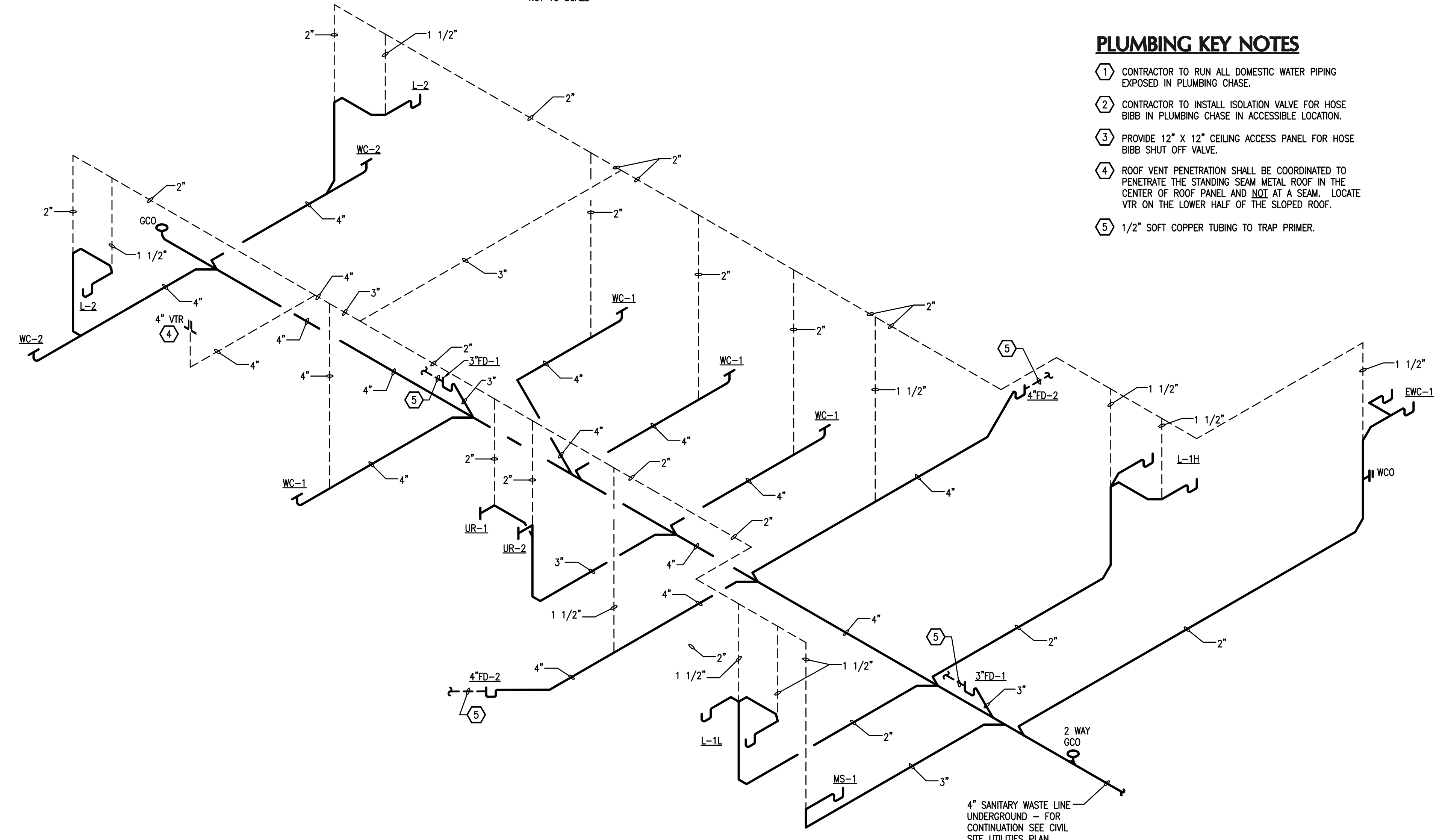
CONSULTANTS
BOBES ASSOCIATES
150 CIRCLE DRIVE, MAITLAND, FL 32751
TEL: 407-823-3333
FLORIDA STATE P.E. NUMBER: 8131

SIGNATURE AND DATED SEAL
AUGUSTO E. BOBES JR., P.E.
FLORIDA P.E. # 39410
LICENSE #

BORRELLI + PARTNERS
ARCHITECTURE PLANNING INTERIOR LANDSCAPE
770 VASSAR STREET
ORLANDO, FLORIDA 32803
CONTRACTOR: THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES AND AUTHORITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AGENCIES AND AUTHORITIES.



DOMESTIC WATER RISER DIAGRAM
NOT TO SCALE



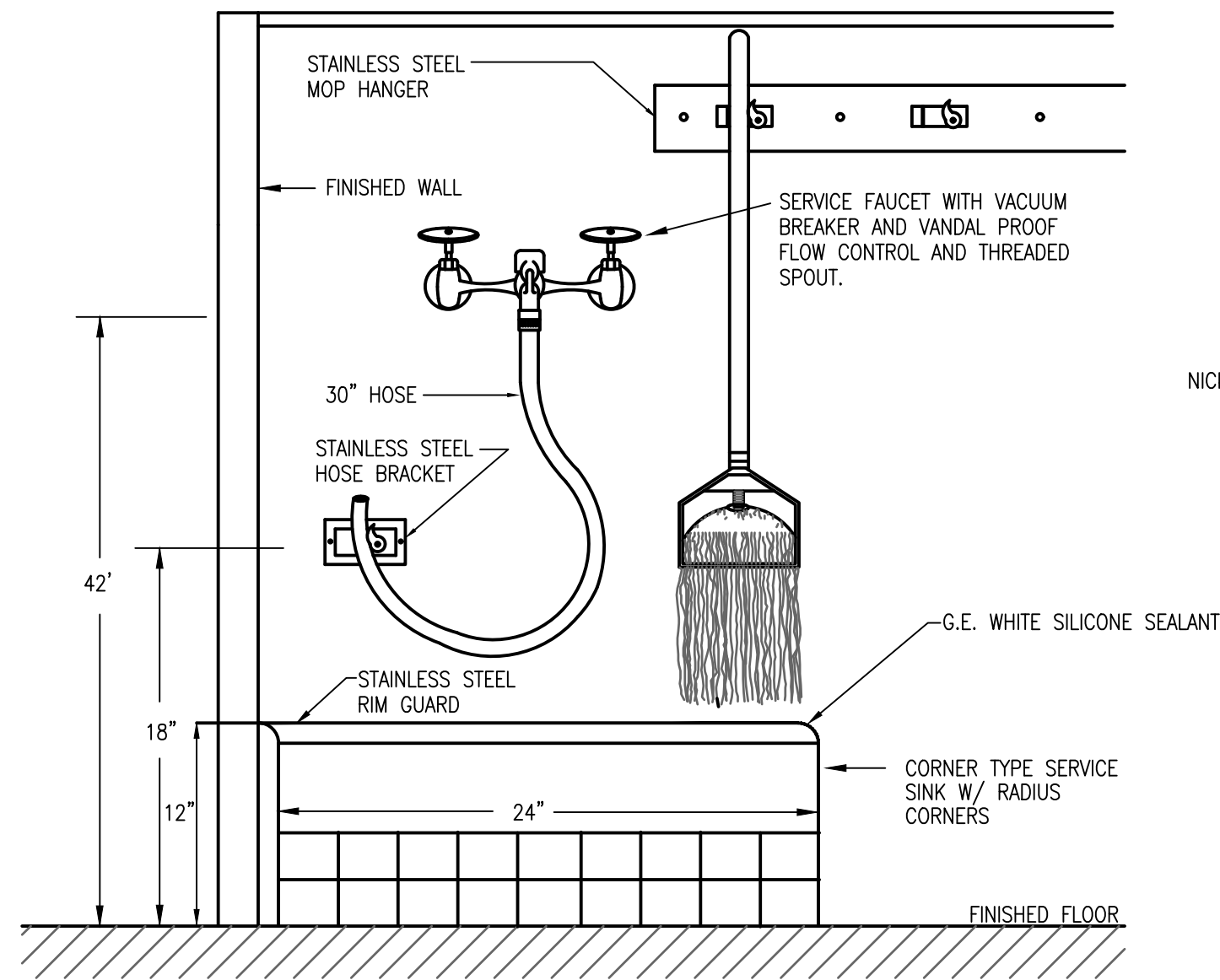
SANITARY WASTE AND VENT RISER DIAGRAM
NOT TO SCALE

PLUMBING KEY NOTES

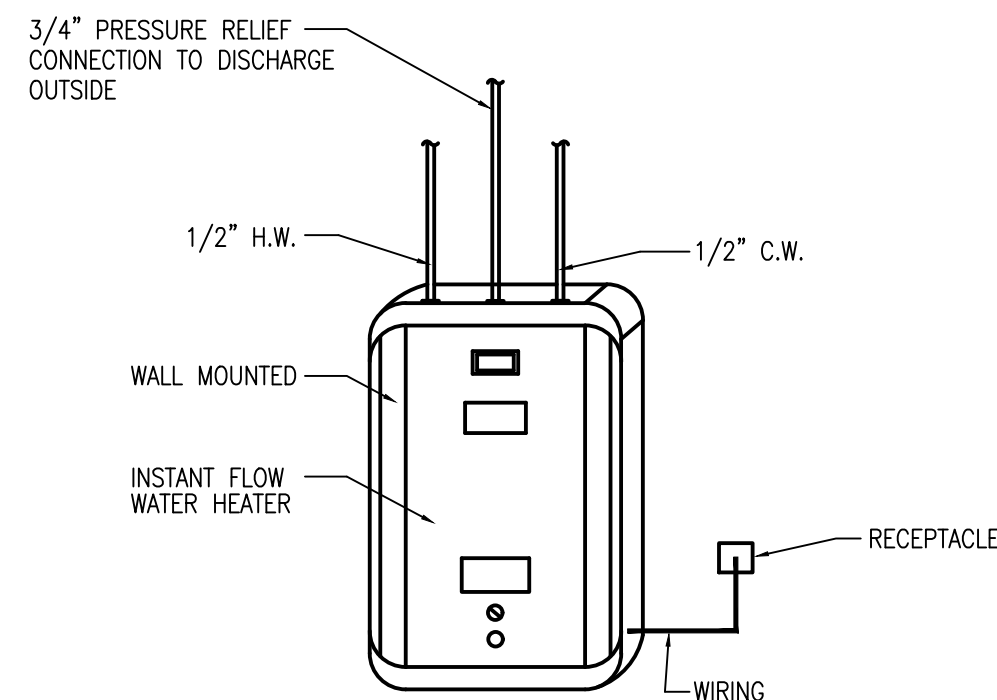
- ① CONTRACTOR TO RUN ALL DOMESTIC WATER PIPING EXPOSED IN PLUMBING CHASE.
- ② CONTRACTOR TO INSTALL ISOLATION VALVE FOR HOSE BIBB IN PLUMBING CHASE IN ACCESSIBLE LOCATION.
- ③ PROVIDE 12" X 12" CEILING ACCESS PANEL FOR HOSE BIBB SHUT OFF VALVE.
- ④ ROOF VENT PENETRATION SHALL BE COORDINATED TO PENETRATE THE STANDING SEAM METAL ROOF IN THE CENTER OF ROOF PANEL AND NOT AT A SEAM. LOCATE VTR ON THE LOWER HALF OF THE SLOPED ROOF.
- ⑤ 1/2" SOFT COPPER TUBING TO TRAP PRIMER.

ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)

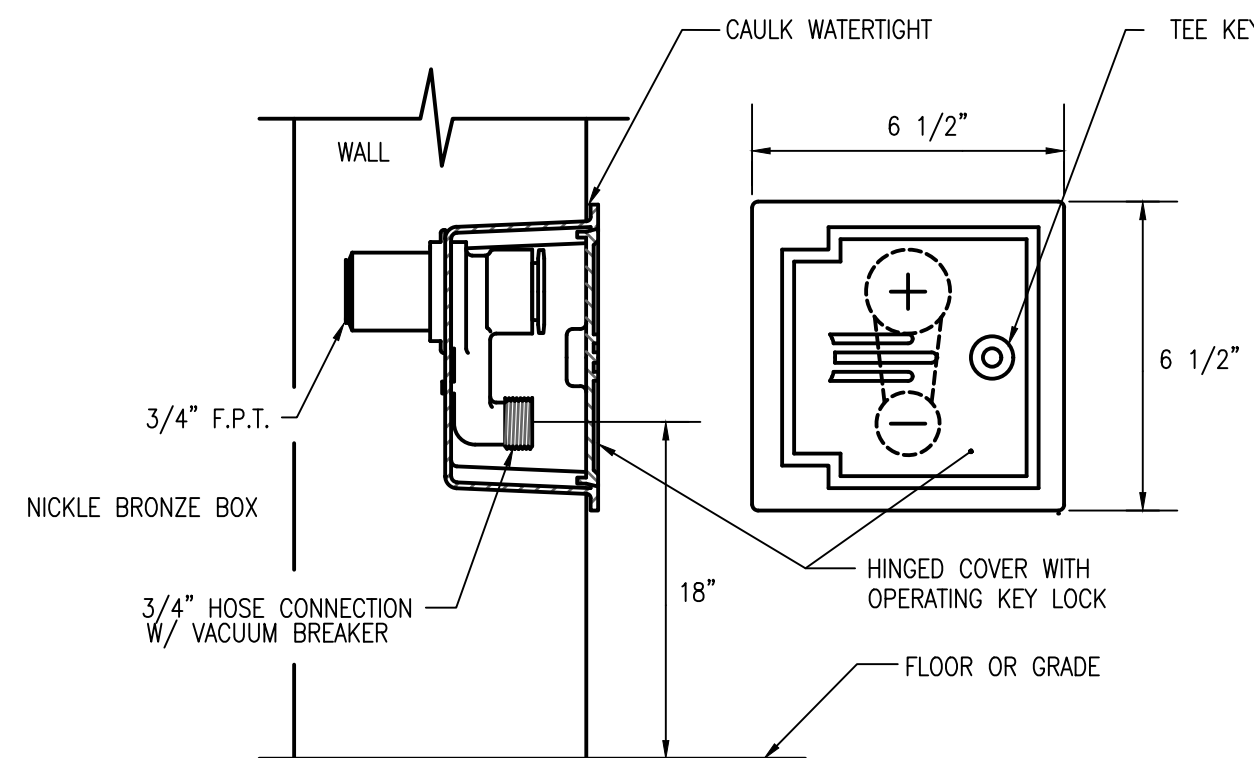
 BORRELLI PARTNERS ARCHITECTURE, PLANNING, LANDSCAPE INTERIOR	770 VASSAR STREET ORLANDO, FL 32804 (407) 418-1338	SIGNATURE AND DATED SEAL	CONSULTANTS <table border="1" style="width: 100%; text-align: center;"> <tr> <td>A</td> <td>E</td> </tr> <tr> <td>B</td> <td>C</td> </tr> </table>	A	E	B	C	BOBES ASSOCIATES CONSULTING ENGINEERS 1111 ORANGE BOULEVARD, SUITE 200 ORLANDO, FL 32801 LICENSE # 3131	SIGNATURE AND DATED SEAL AUGUSTO E. BOBES, JR., P.E. LICENSE # 39410 NAME
A	E								
B	C								
PROJECT ADDRESS 4801 W. COLONIAL DR. ORLANDO, FLORIDA 32808		OWNER NAME AND ADDRESS ORANGE COUNTY PARKS 400 E. SOUTH STREET 5TH FLOOR ORLANDO, FLORIDA 32801		PROJECT NO. 17-109 PHASE PERMIT SET SCALE 1/4" = 1'-0" FILE NAME 031721E-01 DRAWN BY ME CHECKED BY ABJ DATE 04-05-2018					
<div style="border: 2px solid black; border-radius: 50%; width: 60px; height: 60px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> P-301 </div>									



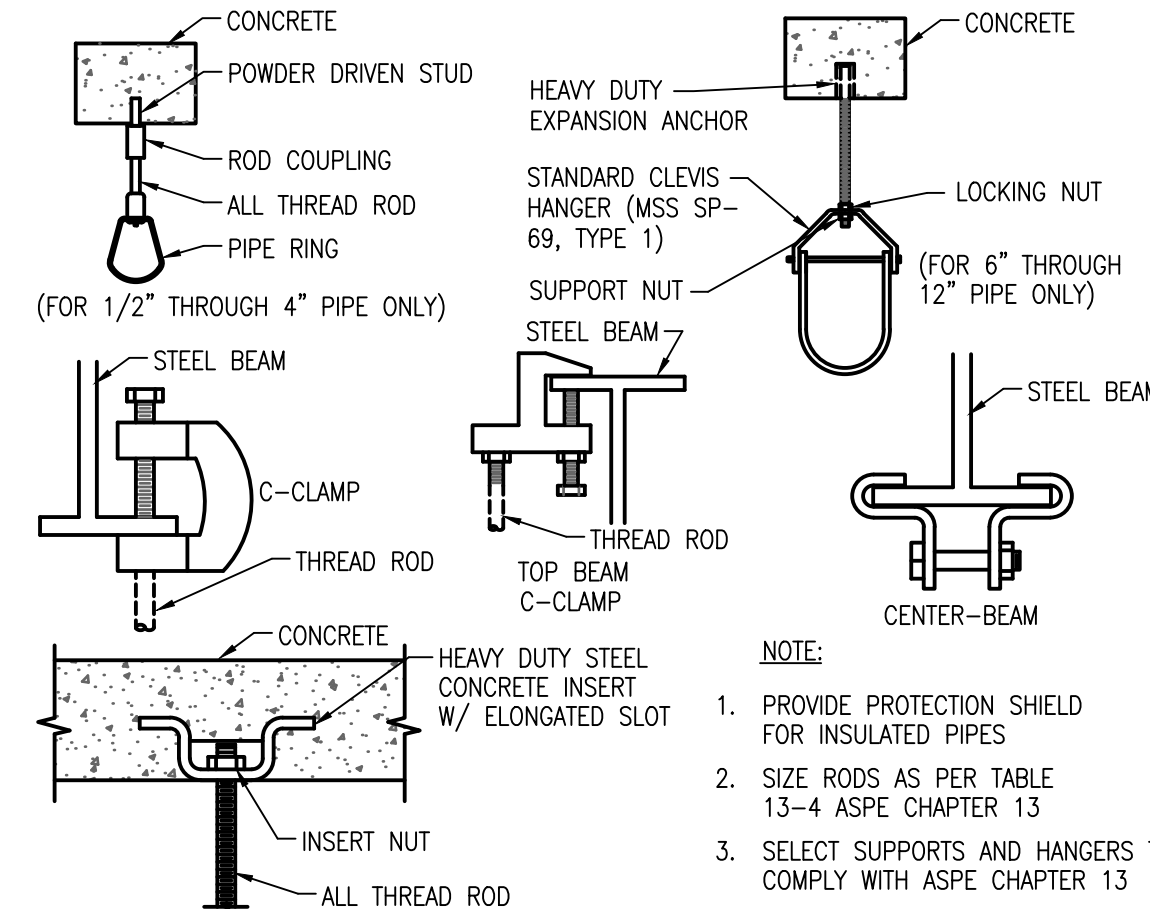
MOP SINK DETAIL
NOT TO SCALE



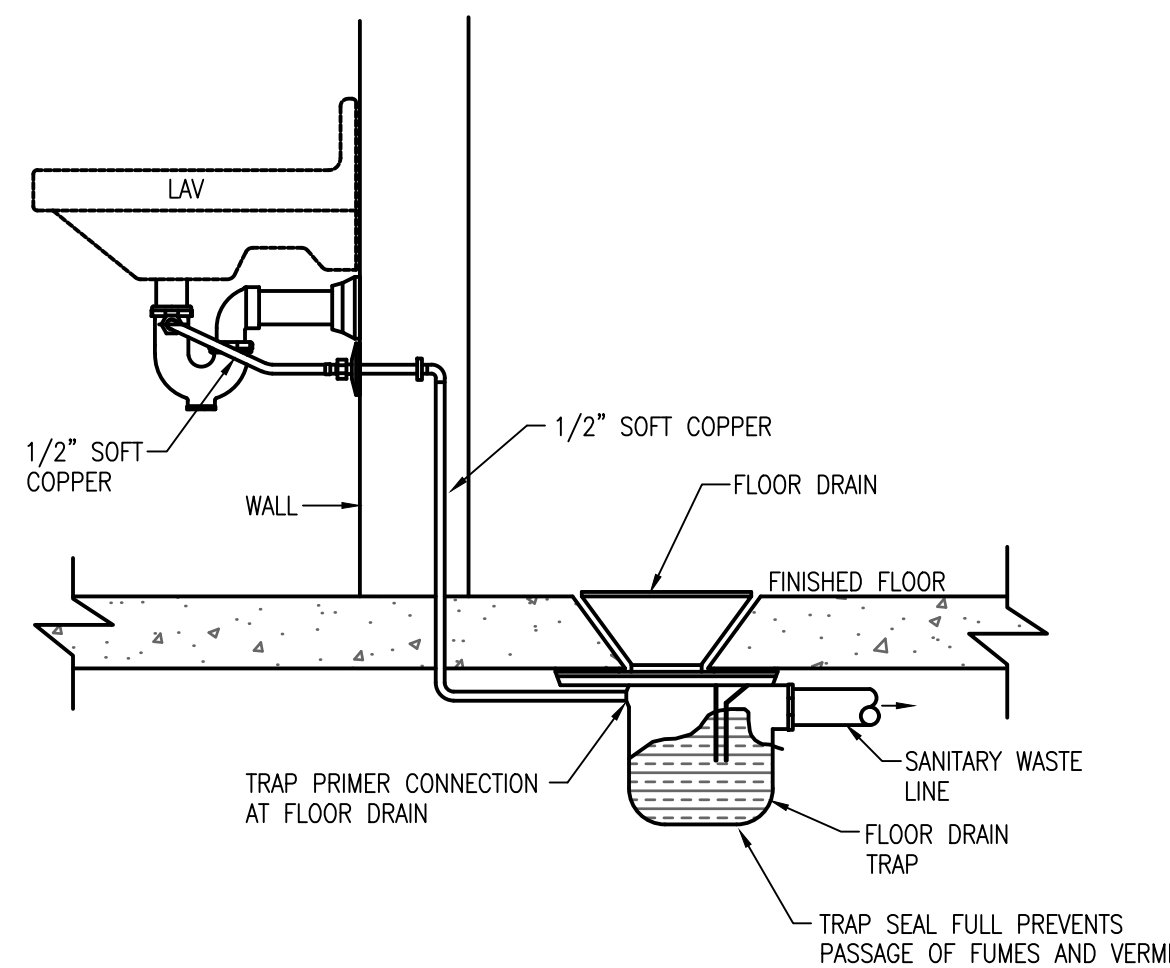
POINT OF CONNECTION INSTANT FLOW WATER HEATER DETAIL
NOT TO SCALE



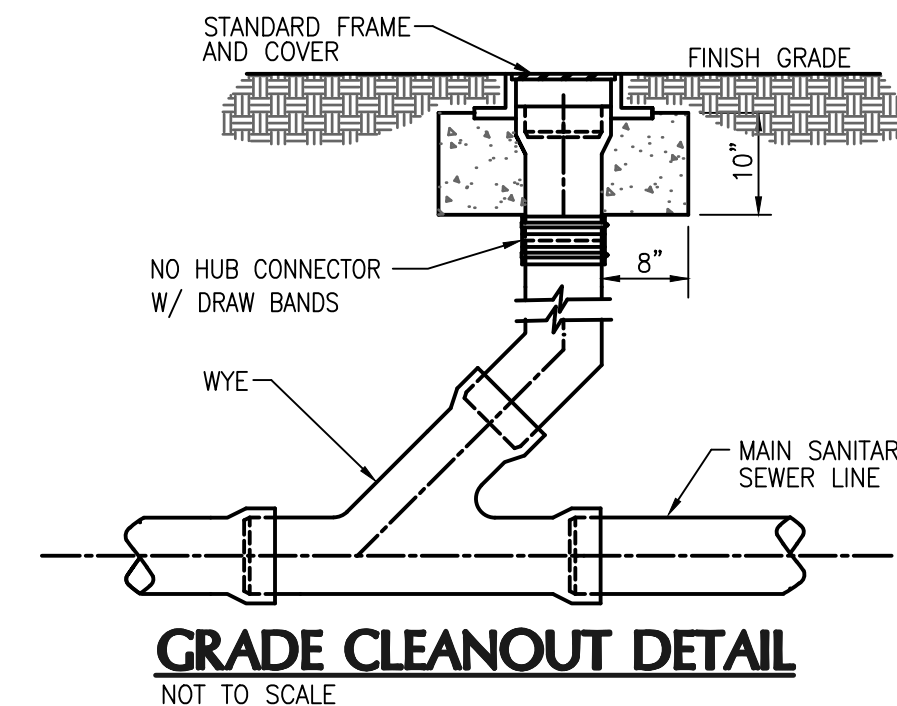
RECESSED HOSE BIBB DETAIL
NOT TO SCALE



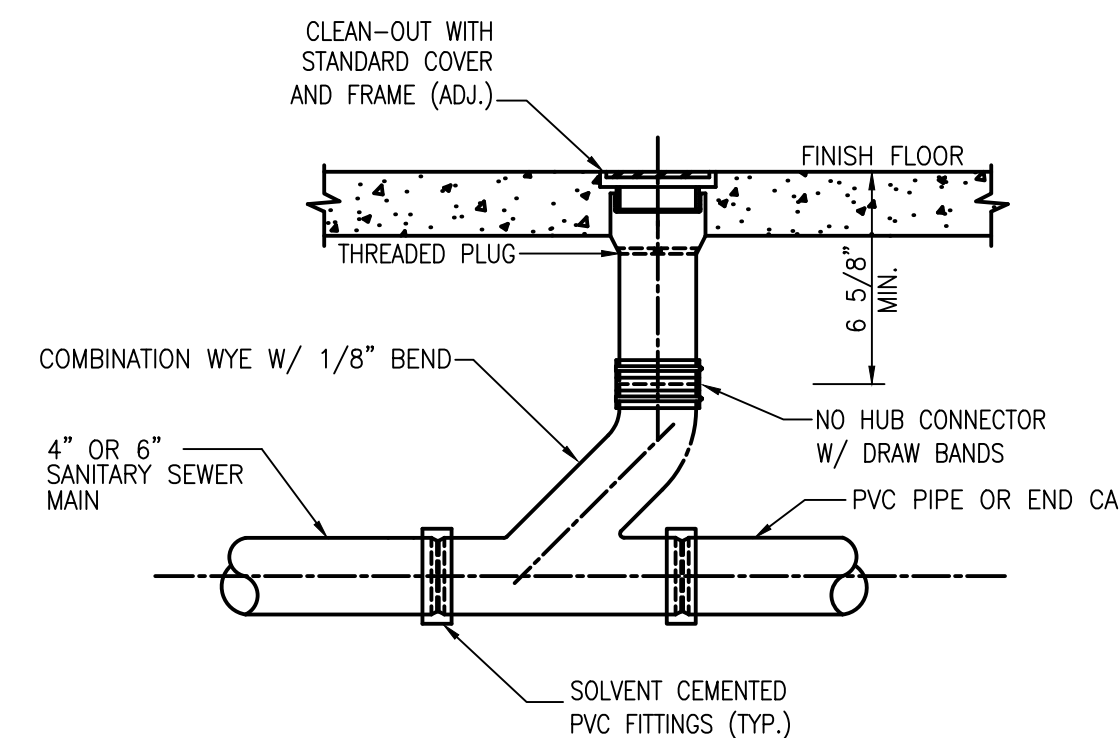
PIPE HANGERS AND SUPPORTS DETAIL
NOT TO SCALE



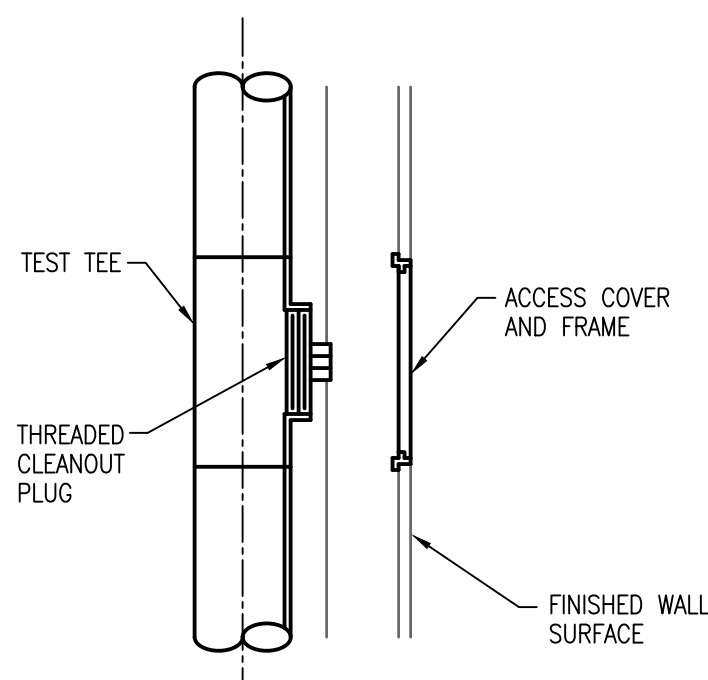
TRAP PRIMER PIPING DETAIL
NOT TO SCALE



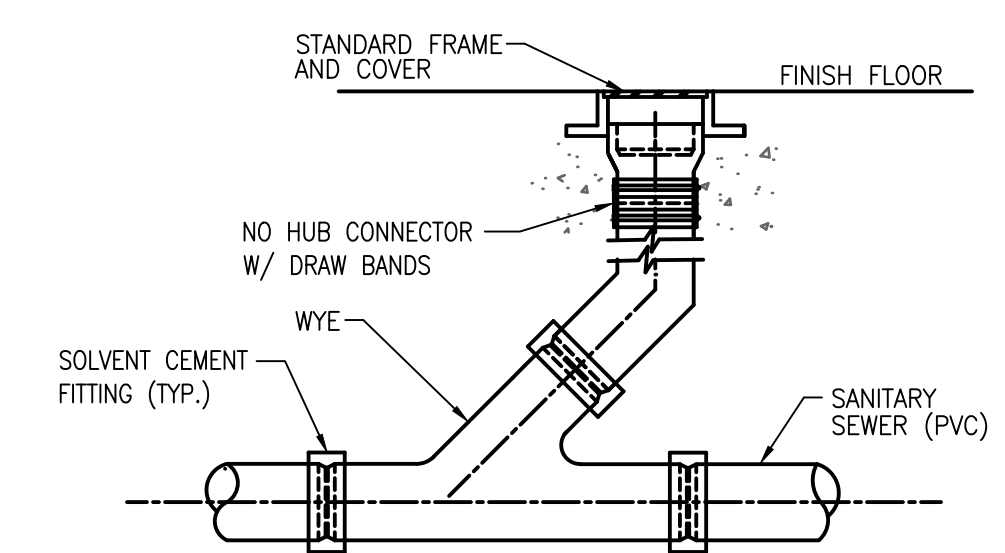
GRADE CLEANOUT DETAIL
NOT TO SCALE



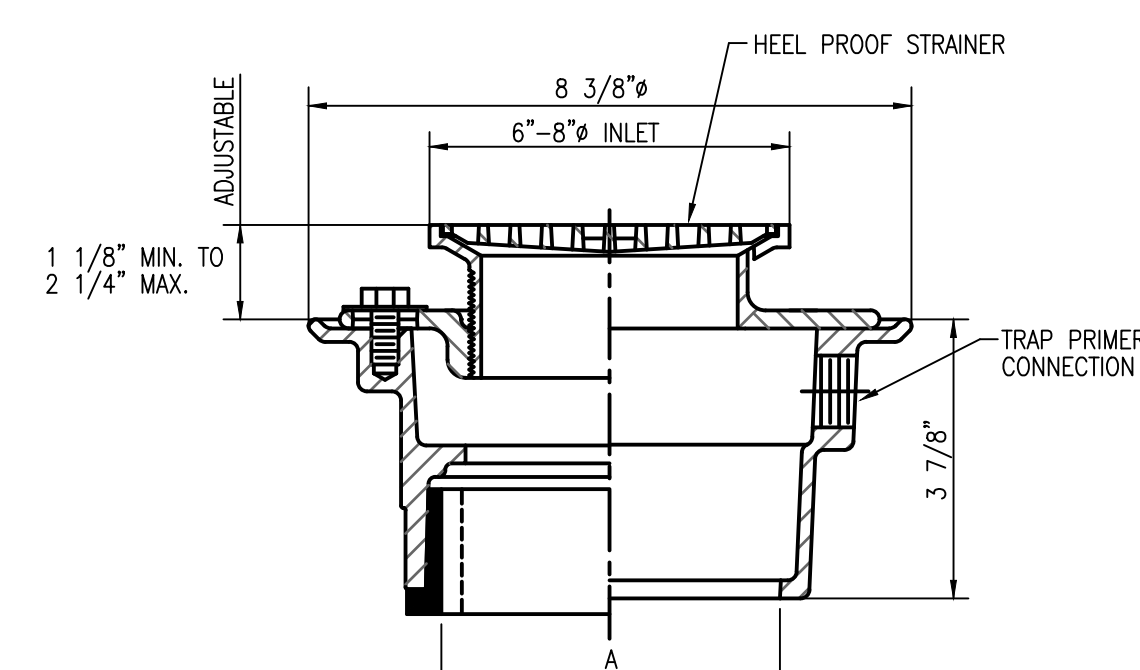
FLOOR CLEANOUT DETAIL
NOT TO SCALE



WALL CLEANOUT DETAIL
NOT TO SCALE



FLOOR CLEANOUT DETAIL
NOT TO SCALE



FLOOR DRAIN DETAIL
NOT TO SCALE

ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)

		770 VASSAR STREET ORLANDO, FL 32804 (407) 418-1338 <small>CONTRACT DOCUMENTS ARE THE PROPERTY OF BORRELLI PARTNERS AND SHALL REMAIN THE PROPERTY OF BORRELLI PARTNERS. ANY REPRODUCTION OR TRANSMISSION OF ANY PART HEREOF IS STRICTLY PROHIBITED WITHOUT THE WRITTEN PERMISSION OF BORRELLI PARTNERS.</small>	
CONSULTANTS		PLUMBING DETAILS	
SIGNATURE AND DATED SEAL		LICENSE #	
B A C E		BOBES ASSOCIATES CONSULTING ENGINEERS 400 E. SOUTH STREET 5TH FLOOR ORLANDO, FL 32801 PHONE: (407) 551-2000 FAX: (407) 551-2008 LICENSE NUMBER: 5131	
PROJECT NO. 17-109		PROJECT ADDRESS 4801 W. COLONIAL DR. ORLANDO, FLORIDA 32808	
PHASE PERMIT SET		OWNER NAME AND ADDRESS ORANGE COUNTY PARKS 400 E. SOUTH STREET 5TH FLOOR ORLANDO, FLORIDA 32801	
SCALE 1/4" = 1'-0"		DRAWN BY ME	
FILE NAME 03-13-16-01		CHECKED BY ABJ	
DATE 04-05-2018		DATE	
REV. 17-109		DESCRIPTION PERMIT SET	

P-501

LIGHTING FIXTURE SCHEDULE							
FIXTURE TYPE	FIXTURE DESCRIPTION	LAMPS		MANUFACTURER		VOLTS	REMARKS
		QTY	TYPE	NAME	CATALOG #		
A	4' CEILING MOUNT HIGH PERFORMANCE LED FIXTURE, VANDAL RESISTANT, ALL ALUMINUM CONSTRUCTION, POLYCARBONATE OPAL LENS, WET LISTING, BRONZE FINISH	-	LED 4000K 82 CRI	LUMINAIRE LED	VVP124-80W-4000K-120-OP-BRZ-WET-TX/SD	120	
AE	SAME AS "A" WITH 2600 LUMEN SELF CONTAINED 90 MINUTE EMERGENCY BATTERY PACK	-	LED 4000K 82 CRI	LUMINAIRE LED	VVP124-80W-4000K-120-OP-BRZ-WET-EMB722-TX/SD	120	
B	4' SLIMLINE SURFACE MOUNT LED FIXTURE, C.R.S. HOUSING, ROUND FROSTED ACRYLIC SHIELDING, WHITE FINISH	-	LED 4000K 80 CRI	WILLIAMS	LLMS-4-L34/840-S-RD-DRV-UNV	120	
C	17" DIA. LED FIXTURE, VANDAL RESISTANT, ALUMINUM BASE PLATE, POLYCARBONATE OPAL LENS, WET LISTING, BRONZE FINISH	-	LED 4000K 82 CRI	LUMINAIRE LED	ARV17-40W-4000K-120-OP-BRZ-TX/SD	120	
CE	SAME AS "C" WITH 800 LUMEN SELF CONTAINED 90 MINUTE EMERGENCY BATTERY PACK	-	LED 4000K 82 CRI	LUMINAIRE LED	ARV17-40W-4000K-120-OP-BRZ-EMB310-TX/SD	120	
EM	EMERGENCY FIXTURE, WHITE HOUSING, NICKEL CADMIUM BATTERY	-	LED	BEGHELLI	PEH-1	120	
H	RUSTIC LED WALL SCONCE, HEAVY DUTY CAST GUARD AND FROSTED GLASS GLOBE, OIL RUBBED BRONZE FINISH	-	17W LED 4000K	BARN LIGHT ELECTRIC	BLE-G-TGCWH-G3-PC-615-T69-FST-LED-4000K	120	

ELECTRICAL GENERAL NOTES

(APPLIES TO ALL DRAWINGS)

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH FLORIDA BUILDING CODE 5th EDITION (2014 FBC), THE 2011 NATIONAL ELECTRICAL CODE (NEC) (FBC ADOPTED JUNE 30, 2015), ALL APPLICABLE LOCAL, COUNTY, AND STATE CODES AND STANDARDS, ALL REQUIREMENTS OF THE SERVICING ELECTRIC UTILITY AND THE AMERICANS WITH DISABILITIES ACT (ADA).
- BRANCH WIRING IS NOT SHOWN GRAPHICALLY ON DRAWING AND IS INDICATED BY CIRCUIT NUMBERS BESIDE FIXTURES, DEVICES AND EQUIPMENT. PROVIDE COMPLETE WIRING SYSTEM WHETHER OR NOT INDICATED GRAPHICALLY.
- LIGHTING FIXTURES ARE SHOWN FOR QUANTITY AND CIRCUITING ONLY. FOR EXACT LOCATION OF LIGHTING FIXTURES, REFER TO ARCHITECTURAL REFLECTED CEILING PLANS. COORDINATE WORK WITH CEILING CONTRACTOR. PROVIDE PROPER FIXTURE FRAMES FOR TYPE OF CEILING INDICATED.
- FOR EXACT ARCHITECTURAL LAYOUT AND DIMENSIONS, COORDINATE WITH ARCHITECTURAL DRAWINGS. ELECTRICAL DRAWINGS ARE FOR REFERENCE ONLY.
- COORDINATE ALL WORK DONE UNDER THIS DIVISION WITH WORK TO BE PERFORMED UNDER DIVISION 15.
- COORDINATE WITH OTHER TRADES FOR EXACT LOCATIONS OF ALL MOTORS AND OTHER EQUIPMENT TO BE INSTALLED AND/OR WIRED UNDER THIS DIVISION BUT FURNISHED UNDER ANOTHER DIVISION OF THE SPECIFICATIONS.
- ALL BRANCH CIRCUITS FOR 120 VOLT, 20 AMP CIRCUITS EXCEEDING EIGHTY FEET IN LENGTH SHALL BE INCREASED IN SIZE AS REQUIRED TO ALLOW FOR VOLTAGE DROP LOSSES.
- PACK ALL SLEEVES FOR CONDUITS PASSING THROUGH FIRE RATED WALLS AND FLOOR SLABS WITH FIRE RESISTANT MATERIALS. ALL PENETRATIONS SHALL BE UL RATED.
- ALL EMPTY CONDUITS (EC) SHALL BE PROVIDED WITH NYLON PULL WIRES.
- TYPE AC CABLE AND ELECTRICAL NON-METALLIC TUBING SHALL NOT BE PERMITTED. TYPE MC CABLE IS PERMITTED AS LONG AS IT IS ACCEPTABLE TO THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ).
- COORDINATE THE REQUIRED SIZE OF ALL CIRCUIT BREAKERS FEEDING EQUIPMENT (I.E. MOTORS, HVAC, KITCHEN EQUIPMENT, SPECIAL PURPOSE OUTLETS, OWNER FURNISHED EQUIPMENT, ETC.) WITH APPROVED EQUIPMENT SHOP DRAWINGS AND OWNER REPRESENTATIVES PRIOR TO ORDERING PANELBOARDS. BREAKERS SHALL BE SIZED PER THE NEC, THE EQUIPMENT NAME PLATE AND MANUFACTURER'S RECOMMENDATIONS.
- THE POWER COMPANY SHALL BE CONTACTED WITHIN 10 DAYS OF THE AWARD OF THE CONTRACT BY THE CONTRACTOR TO VERIFY THE ACTUAL AVAILABLE SHORT CIRCUIT FAULT CURRENT (SCC) AT THE TRANSFORMER SECONDARY BUSHINGS. THE CONTRACTOR SHALL PROVIDE ELECTRICAL DISTRIBUTION AND UTILIZATION EQUIPMENT AND PANELBOARDS WHICH HAVE AIC/WITHSTAND RATINGS GREATER THAN THE AVAILABLE SCC.
- ALL CONDUITS IN OR UNDER SLAB OR UNDERGROUND SHALL BE PVC SCHEDULE 40.
- ALL CONDUITS ABOVE SLAB, WHETHER EXPOSED OR CONCEALED, SHALL BE EMT, IMC, OR RIGID GALVANIZED STEEL.
- FLEXIBLE METAL RACEWAYS SHALL NOT EXCEED 6' IN LENGTH.
- "LIQUID-TIGHT" TYPE FLEXIBLE WEATHERPROOF RACEWAYS SHALL HAVE A METALLIC INTERIOR AND NOT EXCEED 6' IN LENGTH.
- ALL BOXES, PLASTER RINGS, EXTENSION RINGS, AND BOX COVERS SHALL BE METAL.
- ALL CONDUITS SHALL BE PARALLEL AND PERPENDICULAR TO STRUCTURAL MEMBERS.
- ALL BENDS SHALL BE MADE IN CONDUIT USING PROPER EQUIPMENT AND MEET NATIONAL ELECTRICAL CODE (NEC) REQUIREMENTS.
- ALL WIRE, INCLUDING BUT NOT LIMITED TO FEEDERS AND BRANCH CIRCUIT WIRING, SHALL BE COPPER - #12 AWG THWN MINIMUM EXCEPT FOR LOW-VOLTAGE WIRING FOR COMMUNICATIONS SYSTEMS, WHICH MAY BE SMALLER.
- ALL BREAKERS SHALL BE "FULL SIZE". NO TANDEM, PIGGY BACK, TWIN, OR HALF SIZE BREAKERS WILL BE ACCEPTED.
- ALL DEVICES SHALL BE COMMERCIAL OR SPECIFICATION GRADE.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY POWER AND TEMPORARY LIGHTING DURING CONSTRUCTION. TEMPORARY POWER SHALL PROVIDE ADEQUATE POWER FOR NORMAL CONSTRUCTION USE. TEMPORARY LIGHTING SHALL PROVIDE ADEQUATE LIGHT SO THAT THE INDIVIDUAL TRADES WORK CAN BE COMPLETED.
- ALL ELECTRICAL EQUIPMENT SHALL BE UL LISTED.
- A GREEN INSULATED COPPER GROUND CONDUCTOR SHALL BE INSTALLED IN ALL RACEWAYS.
- GROUNDING SYSTEM SHALL BE IN ACCORDANCE WITH NEC ARTICLE 250 AND APPLICABLE REQUIREMENTS OF IEEE STANDARDS 142 AND 241.
- TEST RESISTANCE TO GROUND (EARTHING CONNECTION) WITH RESISTANCE TESTER SUBSEQUENT TO FINAL INSTALLATION. WHERE TEST INDICATES RESISTANCE TO GROUND IS OVER 5 OHMS, TAKE APPROPRIATE ACTION TO REDUCE RESISTANCE TO 5 OHMS OR LESS BY DRIVING ADDITIONAL PROPERLY SPACED GROUND RODS AND TREATING SOIL IN PROXIMITY OF GROUND RODS WITH COMMON SALT, COPPER SULFATE OR MAGNESIUM SULFATE. RE-TEST TO DEMONSTRATE COMPLIANCE.
- CONDUCTORS ARE SIZED FOR VOLTAGE DROP PER N.E.C. ARTICLE 210.19(A)(1) FPN No. 4 AND THE 2014 F.B.C. ENERGY CONSERVATION CODE C405.7.3.1&2. ELECTRICAL CONTRACTOR SHALL PERFORM VOLTAGE DROP CALCULATIONS IN ACCORDANCE WITH N.E.C. ARTICLE 210.19 (A)(1) FPN No. 4 AND THE 2014 F.B.C. ENERGY CONSERVATION CODE C405.7.3.1&2 ON ANY CIRCUITS THAT ARE INSTALLED THAT DIFFER FROM THE DESIGN SHOWN IN THESE PLANS. FEEDER CONDUCTORS SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 2% AND BRANCH CIRCUIT CONDUCTORS 3% AT DESIGN LOAD.
- LIGHT FIXTURES SUPPORTED BY CEILING GRID SHALL BE SUPPORTED AS PER FIELD TECHNICAL INFORMATION NO. 40. LIGHT FIXTURES WEIGHING LESS THAN 10 POUNDS SHALL HAVE ONE 12 GAGE HANGER WIRE CONNECTED FROM THE FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING MORE THAN 10 POUNDS SHALL HAVE TWO 12 GAGE WIRES ATTACHED AT OPPOSING CORNERS OF EACH LIGHT FIXTURE.
- ELECTRICAL CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERABLE FIRE ALARM SYSTEM INCLUDING ALL REQUIRED EQUIPMENT, DEVICES, COMPONENTS, PERMITS, INSPECTIONS AND CERTIFICATIONS AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION. FIRE ALARM SYSTEM SHALL BE FURNISHED WITH A DMP WIRELESS CELLULAR COMMUNICATOR.
- PROVIDE A COMPLETE LIGHTNING PROTECTION SYSTEM FOR THE BUILDING TO COMPLY WITH THE REQUIREMENTS OF NFPA 70, NFPA 780, LPI STANDARDS 175, 176, AND 177. PROVIDE COMPONENTS WHICH ARE UL-LISTED AND MASTER LABELED.
- THE CONTRACTOR SHALL PROVIDE A COMPLETE ELECTRICAL SHOP DRAWING SUBMITTAL TO THE ENGINEER FOR REVIEW AND APPROVAL. THE ELECTRICAL SUBMITTAL SHALL INCLUDE ALL ELECTRICAL PANELS, MDP'S, BREAKERS, DISCONNECTS, DEVICES, RECEPTACLES, CONDUIT, RACEWAYS, LIGHT FIXTURES, POLES, SWITCHES, OCCUPANCY SENSORS, PULL BOXES, WIRING, ETC. CONTRACTOR SHALL NOT ORDER ANY ELECTRICAL EQUIPMENT UNTIL THIS SUBMITTAL IS REVIEWED AND ACCEPTED BY THE ENGINEER OF RECORD. CONTRACTOR SHALL SUBMIT THE SHOP DRAWINGS AS ONE COMPLETE SUBMITTAL AND SHALL NOT PIECE-MEAL THE SUBMITTAL SPREAD OUT OVER THE COURSE OF DAYS AND WEEKS. FAILURE TO SUBMIT A COMPLETE ELECTRICAL SHOP DRAWING SUBMITTAL SHALL RESULT IN AN IMMEDIATE REJECTION OF THE SHOP DRAWING SUBMITTAL.

ELECTRICAL SYMBOL LIST

(SOME SYMBOLS MAY NOT BE USED ON THIS PROJECT.)

	RECESSED LED FIXTURE
	SURFACE MOUNTED LED FIXTURE
	WALL MOUNTED LED FIXTURE
	DOWNLIGHT OR PENDANT LED FIXTURE
	WALL MOUNTED LED FIXTURE
	CEILING MOUNTED EXIT LIGHT. ARROW INDICATES DIRECTIONAL ARROW ON FIXTURE, SHADED AREA INDICATES FACE OF FIXTURE.
	WALL OR END MOUNTED EXIT LIGHT
	EMERGENCY FIXTURE
	PHOTOCELL
	SINGLE POLE SWITCH, SUBSCRIPT LETTER INDICATES FIXTURE CONTROLLED. (3 = 3 WAY, 4 = 4 WAY, K = KEY OPERATED) MOUNTED 48" AFF
	DIMMER SWITCH, TYPE AND WATTAGE TO CONTROL FIXTURE
	QUAD RECEPTACLE
	20A, 2 POLE, 125V GROUNDED DUPLEX RECEPTACLE. 18" AFF UNLESS OTHERWISE NOTED. G = GROUND FAULT INTERRUPTER
	20A, 2 POLE, 125V GROUNDED DUPLEX RECEPTACLE. MOUNTED ABOVE COUNTERTOP UNLESS OTHERWISE NOTED.
	TELEPHONE WALL OUTLET 18" AFF UNLESS OTHERWISE NOTED. PROVIDE 1" EC TO CEILING SPACE.
	TELEPHONE AND DATA DUPLEX OUTLET, LEVITON CAT. #41688-1 OR EQUAL. 18" AFF UNLESS OTHERWISE NOTED. PROVIDE 1" EC TO CEILING SPACE.
	TELEVISION OUTLET WITH 1" EC TO TTB. 18" AFF UNLESS OTHERWISE NOTED.
	CEILING MOUNTED JUNCTION BOX
	WALL MOUNTED JUNCTION BOX
	CONNECTION TO EQUIPMENT
	PUSHBUTTON
	MOTOR HORSEPOWER RATED TOGGLE SWITCH BY DIVISION 15
	NONFUSED DISCONNECT SWITCH. NUMBERS INDICATE SWITCH SIZE.
	FUSED DISCONNECT SWITCH. FUSES SIZED AS SHOWN ON DRAWINGS.
	MOTOR
	PANELBOARD
	FIRE ALARM/SECURITY CONTROL PANEL
	FIRE ALARM ANNUNCIATOR PANEL
	INTERCOM
	CEILING SPEAKER
	TELEPHONE TERMINAL BOARD (TTB)
	FIRE ALARM STROBE LIGHT, MOUNTED 80" AFF
	FIRE ALARM MANUAL PULL STATION, MOUNTED 48" AFF
	FIRE ALARM HORN WITH STROBE LIGHT, MOUNTED 80" AFF
	SPRINKLER FLOW SWITCH
	SPRINKLER TAMPER SWITCH
	KEY LOCK BOX
	HEAT DETECTOR
	DUCT SMOKE DETECTOR
	SMOKE DETECTOR
	HOOD FIRE SUPPRESSION SYSTEM PULL STATION
	AHU FIRE ALARM SHUTDOWN RELAY
	SECURITY SYSTEM DOOR CONTACT
	SECURITY SYSTEM ALARM HORN
	ABOVE FINISHED FLOOR
	FINISHED FLOOR
	AIR HANDLING UNIT
	EMPTY CONDUIT
	EXHAUST FAN
	ELECTRIC WATER COOLER
	ELECTRIC WATER HEATER
	GROUND FAULT INTERRUPTER
	CONDENSING UNIT
	WEATHERPROOF (NEMA-3R)
	NIGHT LIGHT
	SHUNT TRIP
	ISOLATED GROUND

ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)

CONTRACTOR'S RESPONSIBILITY IS TO VERIFY ALL INFORMATION IS ACCURATE AND COMPLETE. CONTRACTOR SHALL VERIFY ALL INFORMATION IS ACCURATE AND COMPLETE. CONTRACTOR SHALL VERIFY ALL INFORMATION IS ACCURATE AND COMPLETE.

BOBES ASSOCIATES CONSULTING ENGINEERS
1111 ORANGE AVE, SUITE 200
ORLANDO, FL 32801
PHONE: 407-654-3200
FAX: 407-654-3201
LICENSE # 13131

GENERAL NOTES,
SYMBOL LIST AND
LIGHTING FIXTURE SCHEDULE

DRAWING TITLE

PROJECT ADDRESS
481 W COLONIAL DR
ORLANDO, FLORIDA 32808

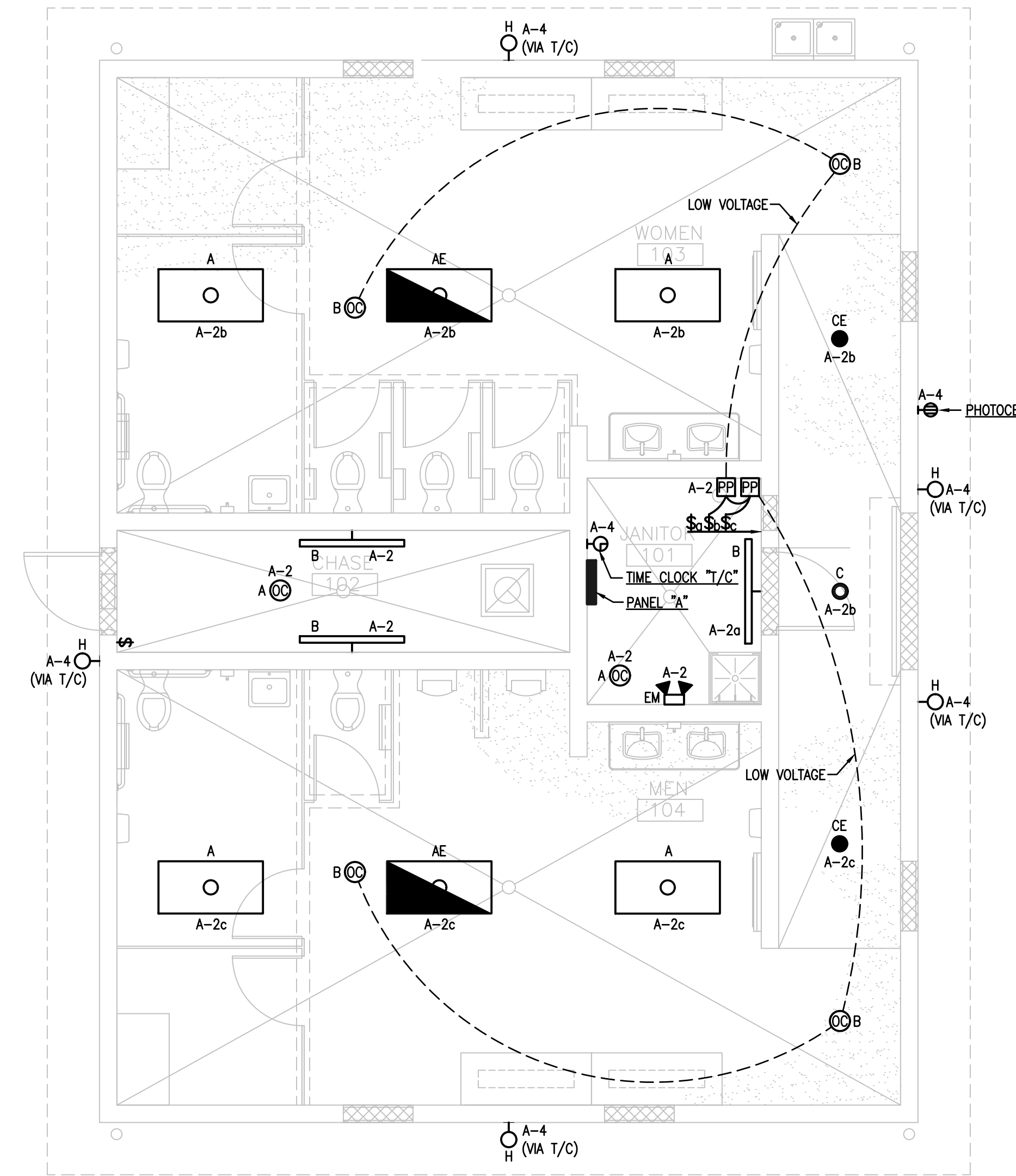
OWNER NAME AND ADDRESS
ORANGE COUNTY PARKS
400 E. SOUTH STREET
5TH FLOOR
ORLANDO, FLORIDA 32801

REV. # DESCRIPTION DATE
17-109 PERMIT SET 17-109 E-001
17-109 E-001
VWC
ASB
04-09-2018

E-001

BORRELLI PARTNERS
ARCHITECTURE PLANNING LANDSCAPE INTERIOR
720 VASSAR STREET
ORLANDO, FL 32804 (407) 418-1338

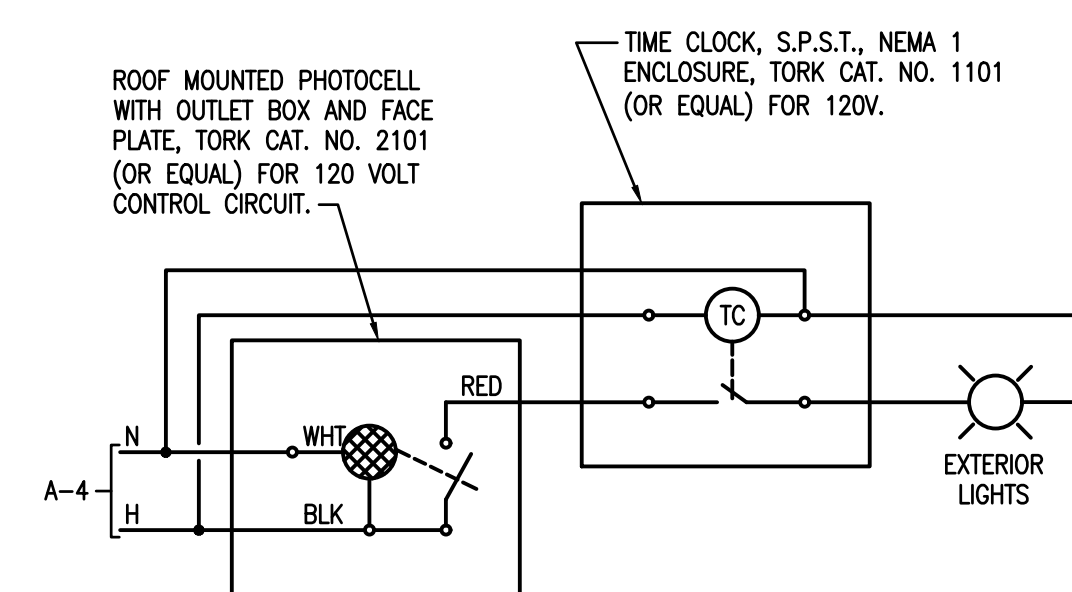
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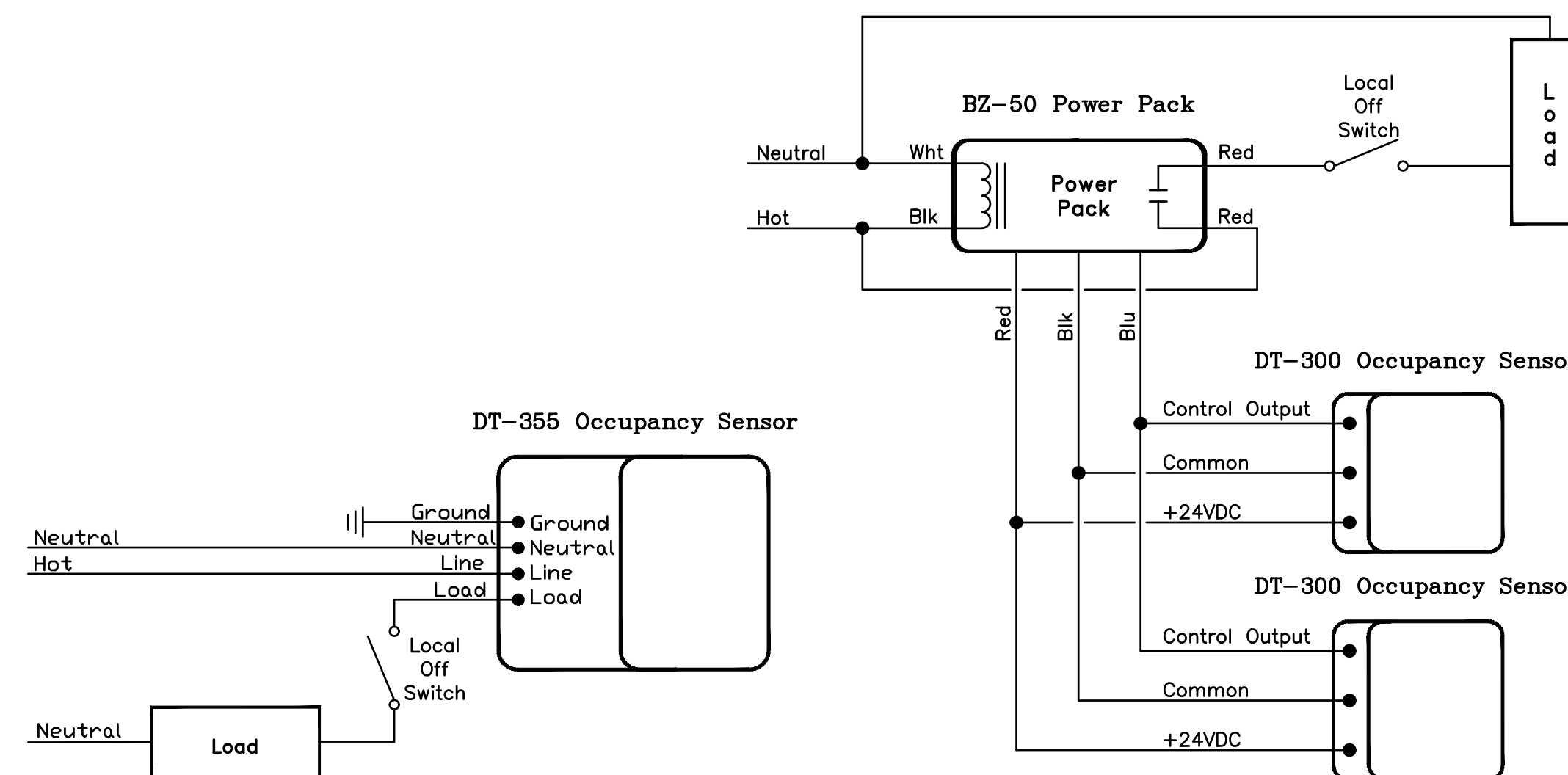
GENERAL NOTES

- REFER TO COMPLETE GENERAL NOTES ON SHEET E-001.
- COORDINATE EXACT LOCATION OF ALL LIGHTING FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLAN.
- CONNECT ALL EMERGENCY FIXTURES, EMERGENCY DRIVERS AND EXIT SIGNS TO LOCAL LIGHTING CIRCUITS AHEAD OF ANY CONTROLS.
- NUMBERS ON THE PLAN THAT ARE SHOWN NEXT TO DEVICES INDICATE THE CIRCUIT NUMBER FEEDING THAT DEVICE, EXAMPLE - A-2. SEE PANEL SCHEDULE.

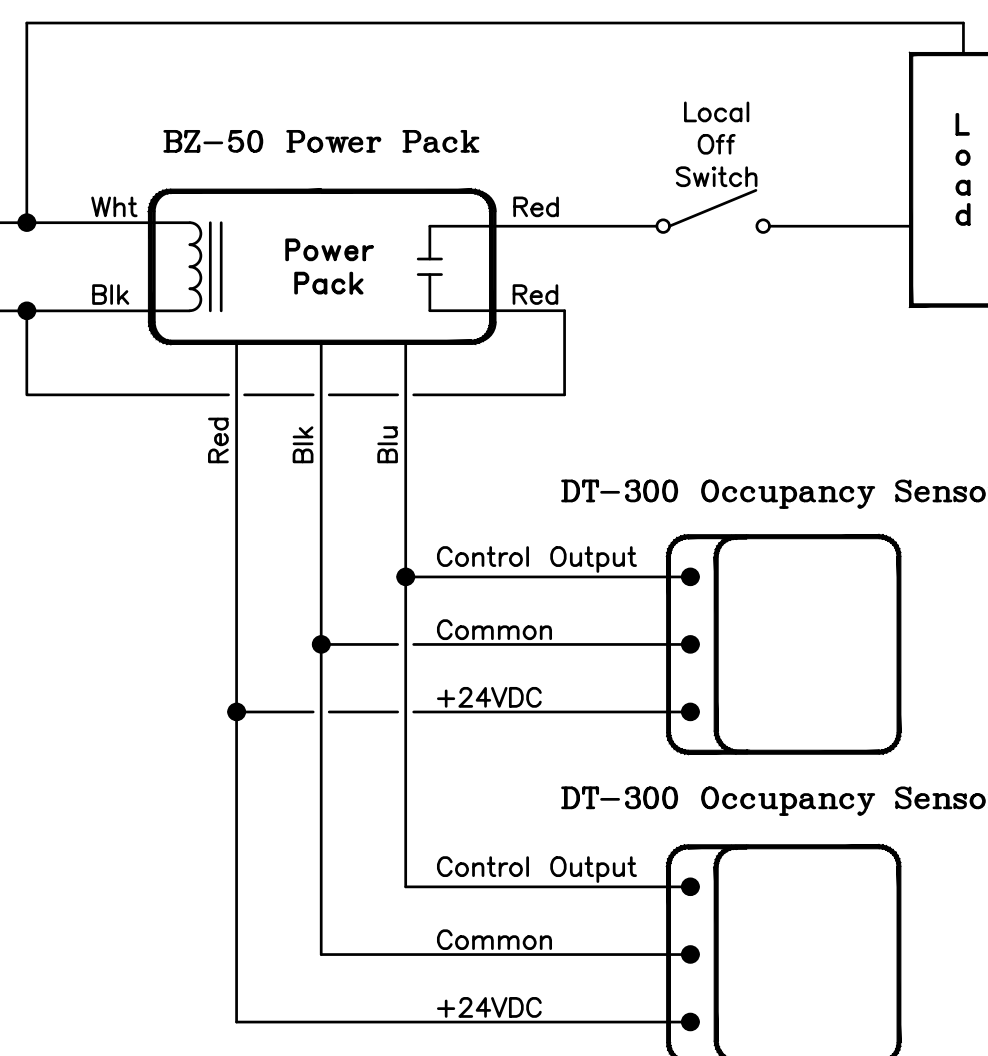
1 RESTROOM FLOOR PLAN - LIGHTING
E-101 1/4"=1'-0"



PHOTOCELL ON / TIME CLOCK OFF EXTERIOR LIGHTING CONTROL WIRING DIAGRAM



TYPICAL DT-355 OCCUPANCY SENSOR WIRING DIAGRAM



TYPICAL DT-300 OCCUPANCY SENSOR WIRING DIAGRAM

WATTSTOPPER LEGEND

- A (DT-355) DT-355, DUAL TECHNOLOGY LINE VOLTAGE CEILING SENSOR, 120VAC, 800 WATTS
- B (DT-300) DT-300, SERIES DUAL TECHNOLOGY CEILING MOUNT SENSOR, 24VDC
- PP BZ-50, UNIVERSAL VOLTAGE POWER PACK

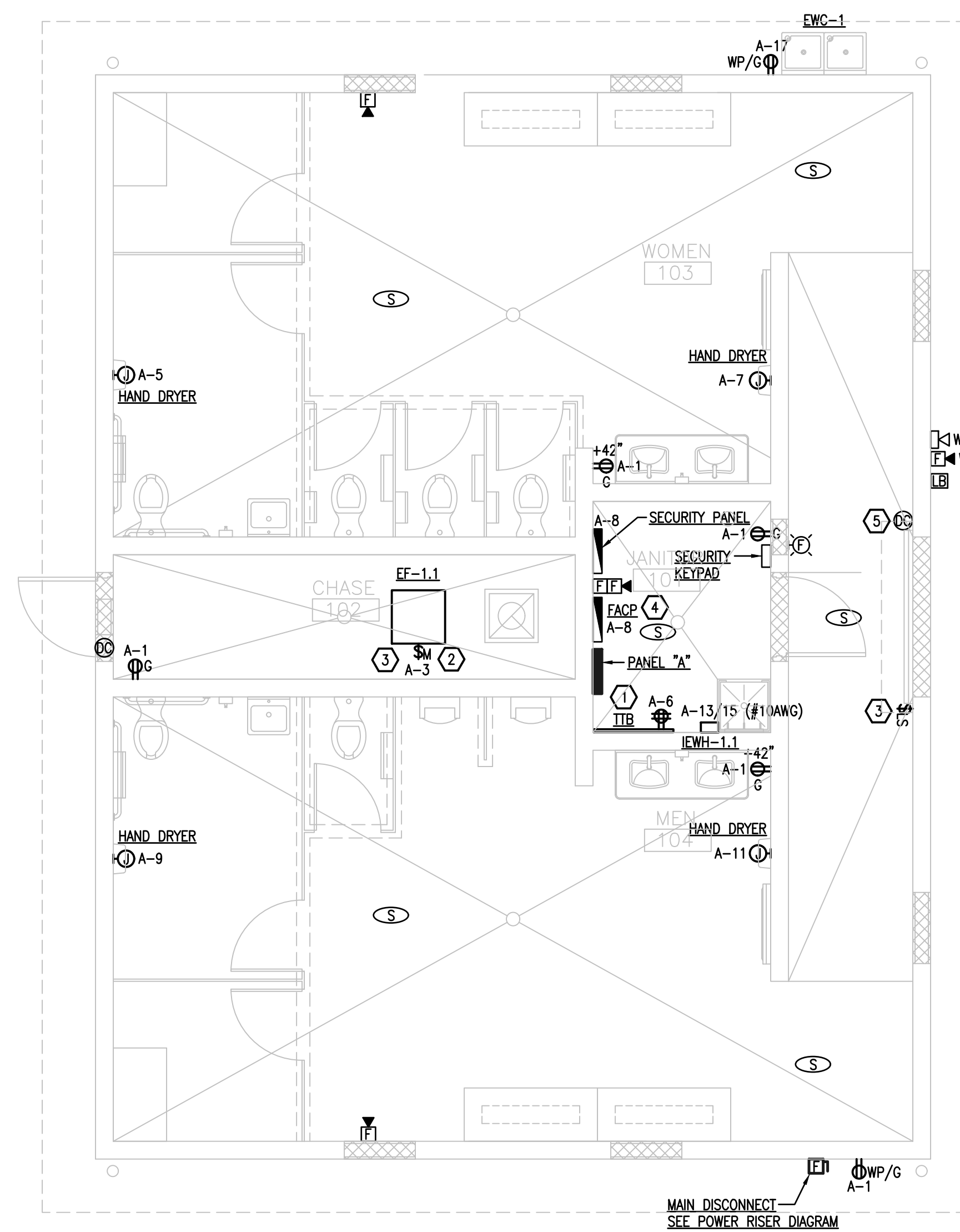
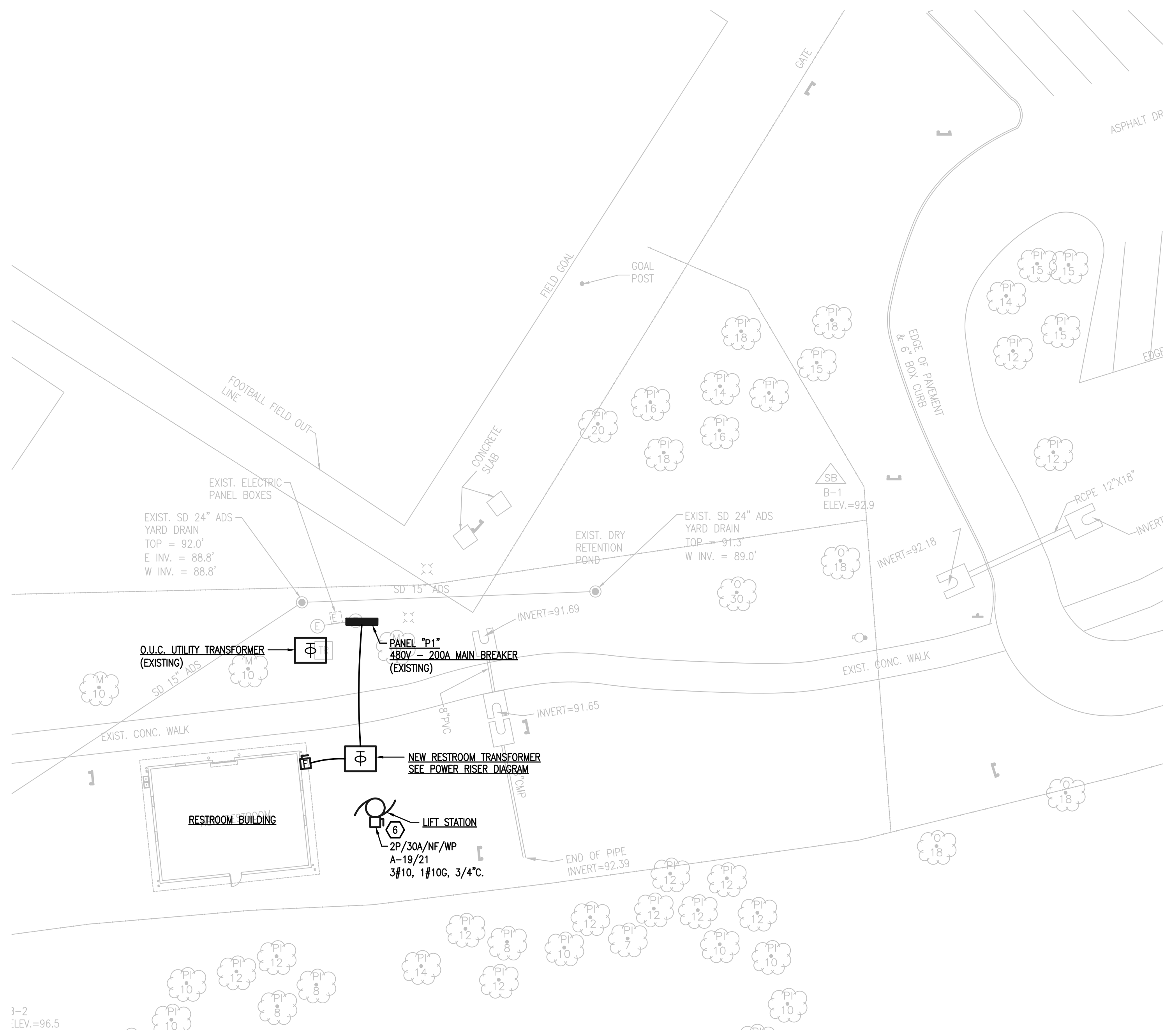
OCCUPANCY SENSOR NOTES

- THE BASIS OF LIGHTING CONTROL FOR THIS PROJECT IS COMPONENTS MANUFACTURED BY WATTSTOPPER, INC. ALL EQUIPMENT SHALL BE LOCATED, INSTALLED AND PROGRAMMED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
- ADDITIONAL SENSORS MAY BE REQUIRED TO PROVIDE COMPLETE COVERAGE DEPENDING ON PARTITION HEIGHT/PLACEMENT, FURNITURE PLACEMENT, EQUIPMENT HEIGHT/PLACEMENT AND SHELVING HEIGHT/PLACEMENT.
- LIGHTING CONTROL AND SENSOR LAYOUTS ARE DONE ACCORDING TO CURRENT FLORIDA ENERGY CODE AND FEDERAL ENERGY GUIDELINES UNLESS SPECIFIED OTHERWISE.

ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)

<p>BORRELLI + PARTNERS ARCHITECTURE PLANNING INTERIOR LANDSCAPE</p> <p>770 VUSSAR STREET ORLANDO, FLORIDA 32819 TEL: 407.226.8800 FAX: 407.226.8801 WWW.BORRELLIANDPARTNERS.COM</p>		<p>SIGNATURE AND DATED SEAL</p>	
<p>BORRES ASSOCIATES ELECTRICAL ENGINEERING</p> <p>150 CIRCLE DRIVE, MAITLAND, FL 32751 TEL: 407.822.8200 FAX: 407.822.8201 WWW.BORRESASSOCIATES.COM FLORIDA STATE P.E. NUMBER: 9131</p>		<p>AUGUSTO E. BORRES, JR., P.E. FLORIDA P.E. # 39410 LICENSE #</p>	
<p>CONSULTANTS</p>			
<p>FLOOR PLAN LIGHTING</p>			
<p>PROJECT ADDRESS</p> <p>4801 W. COLONIAL DR. ORLANDO, FLORIDA 32809</p>		<p>OWNER NAME AND ADDRESS</p> <p>ORANGE COUNTY PARKS 400 E. SOUTH STREET 5TH FLOOR ORLANDO, FLORIDA 32801</p>	
<p>PROJECT NO.</p> <p>17-109</p>	<p>DATE</p> <p>04-02-2018</p>	<p>REV.</p>	<p>DESCRIPTION</p>
<p>PHASE</p> <p>PERMIT SET</p>	<p>SCALE</p> <p>AS NOTED</p>	<p>FILE NAME</p> <p>17-109 E-101</p>	<p>DRAWN BY</p> <p>WMC</p>
<p>CHECKED BY</p> <p>ABJ</p>	<p>DATE</p> <p>04-02-2018</p>		

E-101



- ### GENERAL NOTES
- REFER TO COMPLETE GENERAL NOTES ON SHEET E-001.
 - NUMBERS ON THE PLAN THAT ARE SHOWN NEXT TO DEVICES INDICATE THE CIRCUIT NUMBER FEEDING THAT DEVICE, EXAMPLE - A-1. SEE PANEL SCHEDULE.
 - FOR EXACT LOCATIONS OF MECHANICAL EQUIPMENT AND EQUIPMENT POINT OF CONNECTION, REFER TO MECHANICAL DRAWINGS AND MANUFACTURER'S SHOP DRAWINGS.
 - ALL CIRCUIT FEEDERS AND DISCONNECTS SHALL BE SIZED AND LOCATED PER REQUIREMENTS OF NATIONAL ELECTRICAL CODE. CONTRACTOR IS TO VERIFY DISCONNECT SWITCH AND FUSE SIZES WITH SELECTED EQUIPMENT MANUFACTURER'S SHOP DRAWING PRIOR TO PLACING ORDER AND PROVIDE EVERYTHING AS REQUIRED. CONTRACTOR IS TO COORDINATE ALL ELECTRICAL REQUIREMENTS WITH MANUFACTURER/OWNER'S PURCHASING AGENT/COMMISSIONING AGENT/ELECTRICAL ENGINEER PRIOR TO ORDERING EQUIPMENT AND INSTALLING ELECTRICAL OUTLETS FOR EQUIPMENT FURNISHED BY OTHERS TO ASSURE CORRECT ELECTRICAL REQUIREMENTS AND CONNECTIONS ARE PROVIDED.
 - ALL COMMUNICATIONS AND DATA CABLING TO BE PROVIDED AND INSTALLED BY VENDOR.

- ### KEY NOTES
- PROVIDE AND INSTALL A 3" WIDE X 2" HIGH X 3/4" THICK PLYWOOD BACKBOARD AND PAINT WITH (2) COATS OF FIRE RETARDANT GRAY PAINT TO MEET THE REQUIREMENTS OF TELEPHONE SERVICE PROVIDER, WITH A #6 AWG COPPER GROUNDING CONDUCTOR IN 3/4" PVC CONDUIT FROM BACKBOARD TO SERVICE ENTRANCE GROUND. INSTALL THE QUAD RECEPTACLE AT THE BOTTOM CORNER OF THE BACKBOARD. INSTALL A 2" EMPTY CONDUIT WITH PULL WIRE FROM BACKBOARD TO TELEPHONE POINT OF SERVICE. THE CONTRACTOR SHALL COORDINATE WITH ORANGE COUNTY ISS PRIOR TO INSTALLING DEMARK AND SHALL LOCATE THE BACKBOARD 5'-0" AFF.
 - EXHAUST FAN TO BE CONTROLLED BY TIME CLOCK.
 - PROVIDE AND INSTALL A LIMIT SWITCH, VEE INDUSTRIES #JZ-8108, MOUNTED AS HIGH AS PRACTICABLE ON THE COILING DOOR TRACK. CONNECT LIMIT SWITCH AS REQUIRED TO EXHAUST FAN EF-1.1 SO THAT THE FAN IS SHUT OFF AS THE DOOR IS BEING PULLED DOWN.
 - FIRE ALARM CONTROL PANEL TO BE FURNISHED WITH DMP WIRELESS CELLULAR COMMUNICATOR.
 - SECURITY SYSTEM CONTRACTOR TO PROVIDE COILING DOOR CONTACT THAT DOES NOT CREATE A POTENTIAL TRIPPING HAZARD ON THE FLOOR.
 - PROVIDE POWER FOR LIFT STATION GRINDER PUMPS CONTROL/ALARM PANEL AND MAKE ALL CONNECTIONS PER MANUFACTURER'S INSTRUCTIONS. BASIS OF DESIGN IS FOR A SYSTEM AS SUPPLIED BY ENVIRONMENT ONE CORPORATION. INSTALL A BOOST TRANSFORMER AS SUPPLIED BY SYSTEM MANUFACTURER TO FURNISH 240V POWER TO THE SYSTEM.

ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)

PROJECT NO.	DESCRIPTION	DATE	PROJECT ADDRESS
17-109	PERMIT SET		4801 W COLONIAL DR. ORLANDO, FLORIDA 32808
SCALE	1/4" = 1'-0"		
FILE NAME	17-109 E-201		
DRAWN BY	VMC		
CHECKED BY	ABJ		
DATE	04-05-2018		

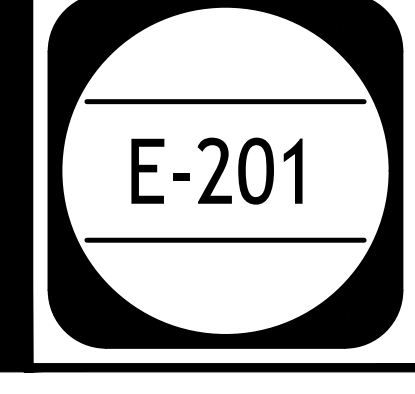
DRAWING TITLE
**FLOOR PLAN & PARTIAL SITE PLAN
POWER AND SYSTEMS**

CONSULTANTS

B	A	E
C		

**BOBES ASSOCIATES
CONSULTING ENGINEERS**
 1111 S. BOYD AVE., SUITE 200
ORLANDO, FLORIDA 32804
TEL: 407.650.3028
FAX: 407.650.3029
LICENSE NO. 14002
LICENSE STATE OF FLORIDA: 06333

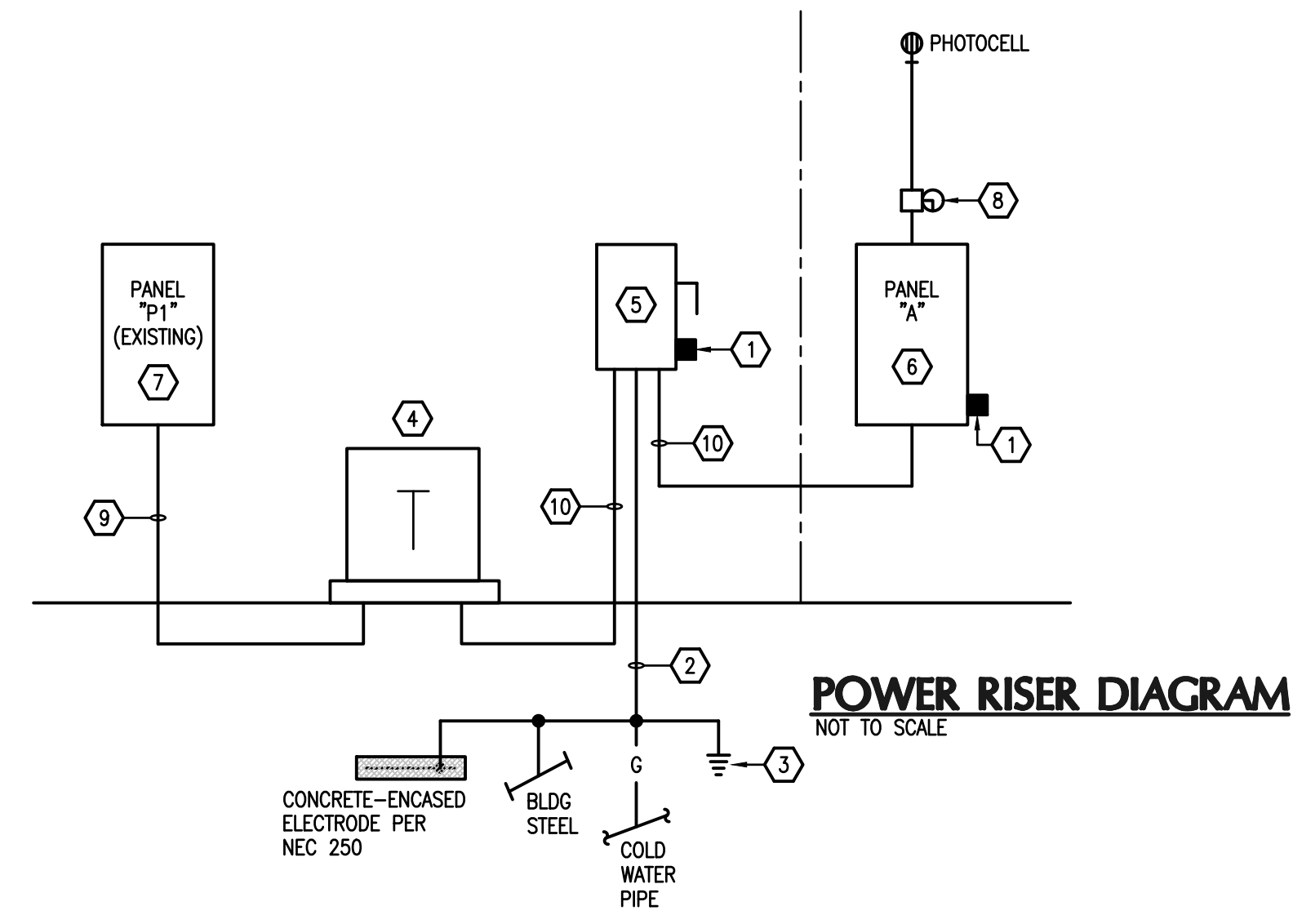
SIGNATURE AND DATED SEAL
BORRELLI PARTNERS
 ARCHITECTURE, PLANNING, LANDSCAPE INTERIOR
 720 VASSAR STREET
 ORLANDO, FL 32804 (407) 418-1338
 CONTRACTUAL DESIGN SERVICES BY AGREEMENT OF BORRELLI PARTNERS AND ORANGE COUNTY PARKS
 50% PARTY EXPENSE AS SHOWN TO BE THE ARCHITECT'S COPYRIGHT PARTNER 11/2018
 ALBERTO E. BOBES JR., P.E.
 ORLANDO, FL
 LICENSE # 14002





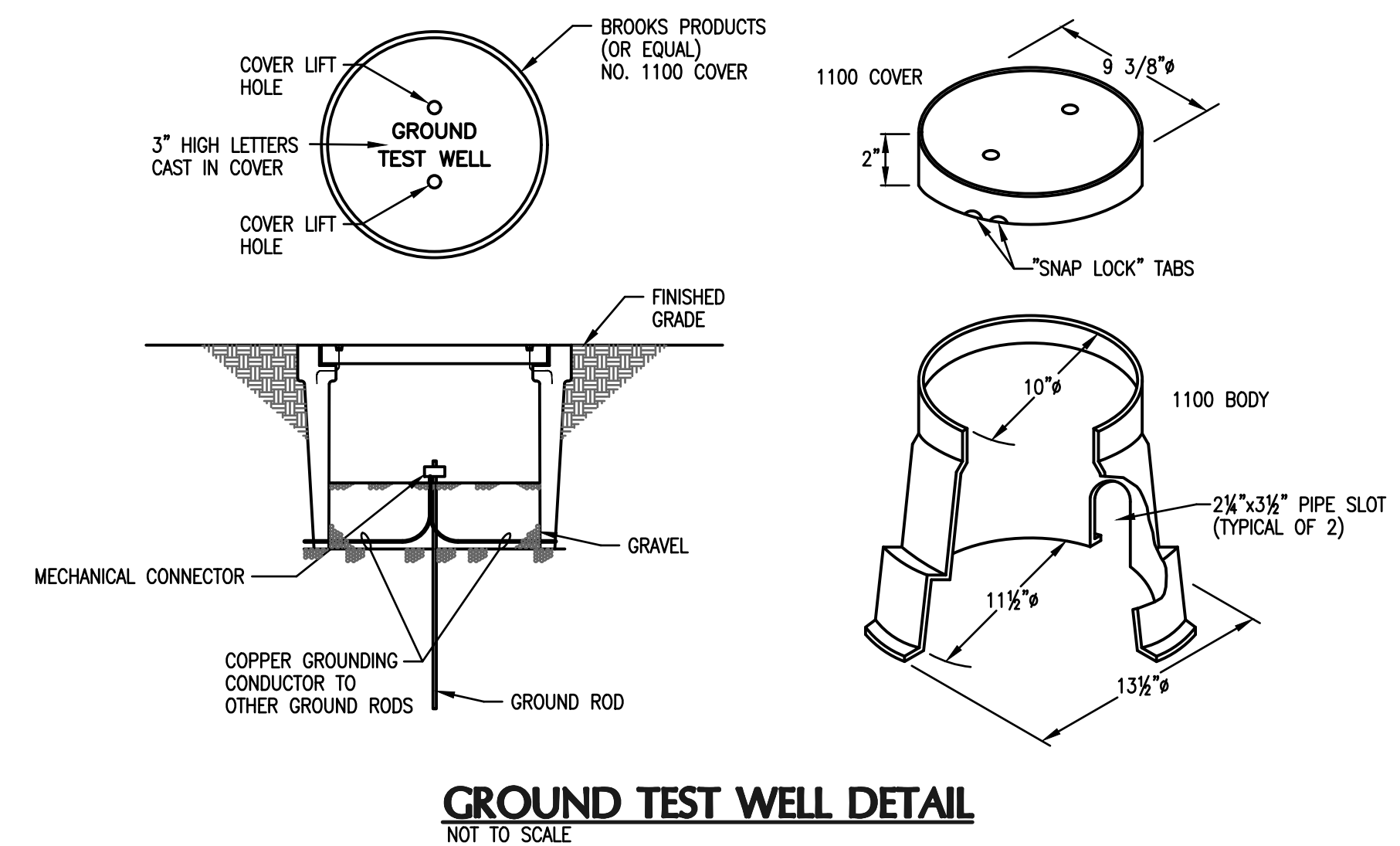
LOCATION OF PANEL "P1" AT OUC TRANSFORMER

PANEL LOCATION: JANITOR'S ROOM 101		PANEL DESIGNATION: A		VOLTAGE: 120/208V, 3Ø, 4W		AIC RATING: 22K							
PANEL FED FROM: TRANSFORMER		PANELBOARD RATING: 100A		MANUFACTURER: SQUARE D		MOUNTING: SURFACE							
		MAINS: MAIN LUGS ONLY		STYLE: NQ		NEMA TYPE: 1							
LOAD DESCRIPTION	WATTS PER PHASE			BKR	POLE	CKT	CKT POLE	BKR	WATTS PER PHASE			LOAD DESCRIPTION	
	PH A	PH B	PH C						PH A	PH B	PH C		
RECEPTACLES	540			20	1	1	2	1	20	680			LIGHTS - 101-104
EF-1.1		1212		20	1	3	4	1	20	100			LIGHTS - EXTERIOR
HAND DRYER		1500		20	1	5	6	1	20				TTB
HAND DRYER	1500			20	1	7	8	1	20	480			FACP, SECURITY PANEL (NOTE 1)
HAND DRYER		1500		20	1	9	10	X	X				SPACE
HAND DRYER		1500		20	1	11	12	X	X				SPACE
IWH-1.1	3600			30	2	13	14	X	X				SPACE
-		3600		-	-	15	16	X	X				SPACE
EWC-1				20	1	17	18	X	X				SPACE
LIFT STATION PUMPS	1664			30	2	19	20	X	X				SPACE
-		1664		-	-	21	22	X	X				SPACE
SPACE				X	X	23	24	X	X				SPACE
SPACE				X	X	25	26	3	30	X			SURGE PROTECTION DEVICE
SPACE				X	X	27	28	-	-				SPACE
SPACE				X	X	29	30	-	-				SPACE
PANELBOARD SUB-TOTALS	7304	7976	3660							1160	100	360	PANELBOARD SUB-TOTALS
LOAD CALCULATIONS:	CONNECTED LOAD (WATTS)			DEMAND FACTOR		ESTIMATED DEMAND LOAD (WATTS)			NOTES:				
LIGHTING	780			1.25		975			1. PROVIDE CIRCUIT BREAKER WITH HANDLE LOCK.				
RECEPTACLES (FIRST 10 KW)	540			1.00		540							
RECEPTACLES (REMAINDER)	X			0.50		X							
HVAC (WORST CASE)	1212			1.00		1212							
WATER HEATING	7200			1.00		7200							
KITCHEN	X			0.65		X							
MISCELLANEOUS	10828			1.00		10828							
PANELBOARD TOTALS:	20560W (57A)					20755W (58A)							



POWER RISER DIAGRAM KEY NOTES

- 1 PROVIDE AND INSTALL LISTED LIGHTNING ARRESTER ON THE SERVICE FEEDERS AND SURGE PROTECTION DEVICE ON THE PANEL ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
- 2 #8 INSULATED COPPER GROUNDING ELECTRODE CONDUCTOR, INSTALL IN 1/2" C.
- 3 (3) - 3/4" x 10'-0" COPPERCLAD GROUND RODS. INSTALL 10'-0" APART IN A TRIANGLE AND CONNECT GROUND SYSTEM PER NEC ARTICLE 250. PROVIDE GROUND TEST WELL AT EACH GROUND ROD. REFER TO DETAIL.
- 4 INSTALL A 30KVA, 3Ø, 480V DELTA PRIMARY-208Y/120V SECONDARY, NEMA 3R TRANSFORMER MOUNTED ON CONCRETE PAD. INSTALL A #8 AWG SUPPLY-SIDE BONDING JUMPER PER REQUIREMENTS OF N.E.C. 250.30.
- 5 INSTALL A HEAVY DUTY FUSIBLE DISCONNECT SWITCH, 3P, 100A, NEMA 3R, SERVICE ENTRANCE RATED, WITH 100A FUSES.
- 6 FOR PANELBOARD INFORMATION SEE PANEL SCHEDULE.
- 7 INSTALL A 3 POLE, 45 AMP CIRCUIT BREAKER AT AVAILABLE SPACES 19, 21 AND 23 IN EXISTING PANEL "P1" TO FEED THE NEW RESTROOM TRANSFORMER. CIRCUIT BREAKER SHALL HAVE AIC RATING TO MATCH EXISTING. UPDATE PANEL CIRCUIT DIRECTORY WITH NEW LOAD.
- 8 PROVIDE AND INSTALL TIME CLOCK AS SHOWN ON PLANS.
- 9 1" C. - 3#6, 1#8 GND.
- 10 1 1/4" C. - 4#3, 1#8 GND.



ORANGE COUNTY PARKS: BARNETT PARK RESTROOMS BUILDING (Y17-812)

<p>BORELLI PARTNERS ARCHITECTURE PLANNING LANDSCAPE INTERIOR</p> <p>770 VASSAR STREET ORLANDO, FL 32804 (407) 418-1338</p>	<p>CONSTRUCTION PERMITS: DEPARTMENT OF BARNETT PARK RESTROOMS BUILDING (Y17-812) FLORIDA P.E. # 9410 LICENSE #</p>	<p>BOBES ASSOCIATES CONSULTING ENGINEERS 1111 GORSE, 4075 E. BURNING WOOD, FL 32791 FLORIDA P.E. # 9410 LICENSE #</p>	<p>CONSULTANTS</p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td>A</td> <td>E</td> </tr> <tr> <td>B</td> <td>C</td> </tr> </table>	A	E	B	C	<p>SIGNATURE AND DATED SEAL</p>
A	E							
B	C							
<p>DRAWING TITLE</p> <p>PANEL SCHEDULE AND POWER RISER DIAGRAM</p>								
<p>PROJECT NO. 17-109</p> <p>PHASE PERMIT SET</p> <p>SCALE NONE</p> <p>FILE NAME 17-109 E-01</p> <p>DRAWN BY WMC</p> <p>CHECKED BY ABJ</p> <p>DATE 04-05-2018</p>	<p>PROJECT ADDRESS</p> <p>4801 W. COLONIAL DR. ORLANDO, FLORIDA 32808</p> <p>OWNER NAME AND ADDRESS</p> <p>ORANGE COUNTY PARKS 400 E. SOUTH STREET 5TH FLOOR ORLANDO, FLORIDA 32801</p>	<p>DATE</p> <p>DESCRIPTION</p> <p>DESCRIPTION</p>	<p>REV.</p> <p>DESCRIPTION</p>	<p>DATE</p>				