

ZONING COMPLIANCE PERMIT APPLICATION



TOWN OF CHAPEL HILL
Planning Department
405 Martin Luther King Jr. Blvd
phone (919) 968-2728 fax (919) 969-2014
www.townofchapelhill.org
Date: 10/23/2018

Parcel Identifier Number (PIN): 9798333326

Section A: Project Information

Project Name: Finley Fields North - Phase 2
Property Address: 142 Old Mason Farm Rd, Chapel Hill, NC Zip Code: 27514
Use Groups (A, B, and/or C): C Existing Zoning District: OI-2
Project Description: Addition of Restroom Facility and
Grandstand to Existing Park

Section B: Applicant, Owner and/or Contract Purchaser Information

Any persons intending to construct, install, remodel, repair, or alter any property in Chapel Hill, may be required to obtain a Business/Privilege License. The application can be found at: <http://www.townofchapelhill.org/index.aspx?page=1199> Please contact the Revenue Collector, 919-968-2759, if you have any questions.

Applicant Information (to whom correspondence will be mailed)

Name: Thomas Loter
Address: 103 Airport Drive
City: Chapel Hill State: NC Zip Code: 27599
Phone: 919-843-3238 Email: thomas.loter@facilities.unc.edu

The undersigned applicant hereby certifies that, to the best of his knowledge and belief, all information supplied with this application is true and accurate.

Signature: _____ Date: _____

Owner/Contract Purchaser Information:

Owner **Contract Purchaser**

Name: Anna A. Wu, FAIA, Assoc. Vice Chancellor
Address: 103 Airport Drive
City: Chapel Hill State: NC Zip Code: 27599
Phone: _____ Email: annaw@fac.unc.edu

The undersigned applicant hereby certifies that, to the best of his knowledge and belief, all information supplied with this application is true and accurate.

Signature: _____ Date: _____



PROJECT FACT SHEET
TOWN OF CHAPEL HILL
Planning Department

Section A: Project Information

Application type: Zoning Compliance Permit Date: 10/23/2018
Project Name: Finley Fields North - Phase 2

Use Type: (check/list all that apply)

Office/Institutional Residential Mixed-Use Other: _____

Overlay District: (check all those that apply)

Historic District Neighborhood Conservation District Airport Hazard Zone

Section B: Land Area

| | | | | |
|--|---|------|------------------|---------|
| Net Land Area (NLA): Area within zoning lot boundaries | | NLA= | 1,015,820 | sq. ft. |
| Choose one, or both, of the following (a or b,) not to exceed 10% of NLA | a) Credited Street Area (total adjacent frontage) x ½ width of public right-of-way | CSA= | N/A | sq. ft. |
| | b) Credited Permanent Open Space (total adjacent frontage) x ½ public or dedicated open space | COS= | N/A | sq. ft. |
| TOTAL: NLA + CSA and/or COS = Gross Land Area (not to exceed NLA + 10%) | | GLA= | 1,015,820 | sq. ft. |

Section C: Special Protection Areas, Land Disturbance, and Impervious Area

Special Protection Areas: (check all those that apply)

Jordan Buffer Resource Conservation District 100 Year Floodplain Watershed Protection District

| Land Disturbance | Total (sq ft) |
|--|----------------|
| Area of Land Disturbance (Includes: Footprint of proposed activity plus work area envelope, staging area for materials, access/equipment paths, all grading, including off-site clearing) | 782,678 |
| Area of Land Disturbance within RCD | 158,964 |
| Area of Land Disturbance within Jordan Buffer | 38,661 |

| Impervious Areas | Existing (sq ft) | Demolition (sq ft) | Proposed (sq ft) | Total (sq ft) |
|--|-------------------|--------------------|------------------|----------------|
| Impervious Surface Area (ISA) | 499821 PH1 | N/A | 5,040 PH2 | 505,018 |
| Impervious Surface Ratio: Percent Impervious Surface Area of Gross Land Area (ISA/GLA) % | 49.2% | N/A | 0.5% | 49.8% |
| If located in Watershed Protection District, % of impervious surface on 7/1/1993 | 0.08% | N/A | N/A | 0.08% |



PROJECT FACT SHEET
 TOWN OF CHAPEL HILL
 Planning Department

Section D: Dimensions

| Dimensional Unit (sq ft) | Existing (sq ft) | Demolition (sq ft) | Proposed (sq ft) | Total (sq ft) |
|--------------------------|------------------|--------------------|------------------|---------------|
| Number of Buildings | 0 | 0 | 1 (1027sf) | 1 (1027sf) |
| Number of Floors | 0 | 0 | 1 | 1 |
| Recreational Space | N/A | N/A | N/A | N/A |

| Residential Space | | | | |
|---|------------------|--------------------|------------------|---------------|
| Dimensional Unit (sq ft) | Existing (sq ft) | Demolition (sq ft) | Proposed (sq ft) | Total (sq ft) |
| Floor Area (all floors – heated and unheated) | --- | --- | --- | --- |
| Total Square Footage of All Units | --- | --- | --- | --- |
| Total Square Footage of Affordable Units | --- | --- | --- | --- |
| Total Residential Density | --- | --- | --- | --- |
| Number of Dwelling Units | --- | --- | --- | --- |
| Number of Affordable Dwelling Units | --- | --- | --- | --- |
| Number of Single Bedroom Units | --- | --- | --- | --- |
| Number of Two Bedroom Units | --- | --- | --- | --- |
| Number of Three Bedroom Units | --- | --- | --- | --- |

| Non-Residential Space (Gross Floor Area in Square Feet) | | | | | |
|---|----------|----------|------------|----------|----------|
| Use Type | Existing | Proposed | Uses | Existing | Proposed |
| Commercial | --- | --- | | | |
| Restaurant | --- | --- | # of Seats | | |
| Government | --- | --- | | | |
| Institutional | 0 | 1027sf | | | |
| Medical | --- | --- | | | |
| Office | --- | --- | | | |
| Hotel | --- | --- | # of Rooms | | |
| Industrial | --- | --- | | | |
| Place of Worship | --- | --- | # of Seats | | |
| Other | --- | --- | | | |

| Dimensional Requirements | | Required by Ordinance | Existing | Proposed |
|--------------------------|---------------------------------------|-----------------------|----------|----------|
| Setbacks (minimum) | Street | 22' | --- | 30' |
| | Interior (neighboring property lines) | 8' | --- | 15' |
| | Solar (northern property line) | 9' | --- | 9.5' |
| Height (maximum) | Primary | N/A | --- | 14'-9" |
| | Secondary | N/A | --- | N/A |
| Streets | Frontages | 40' | --- | 1100' |
| | Widths | 40' | --- | 1120' |



PROJECT FACT SHEET
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Section F: Adjoining or Connecting Streets and Sidewalks

(Note: For approval of proposed street names, contact the Engineering Department)

| Street Name | Right-of-way Width | Pavement Width | Number of Lanes | Existing Sidewalk* | Existing curb/gutter |
|-------------------|--------------------|----------------|-----------------|------------------------------|------------------------------|
| Old Mason Farm Rd | 60' | 20' | 2 | <input type="checkbox"/> Yes | <input type="checkbox"/> Yes |
| | | | | <input type="checkbox"/> Yes | <input type="checkbox"/> Yes |

List Proposed Points of Access (Ex: Number, Street Name): Old Mason Farm Rd.

*If existing sidewalks do not exist and the applicant is adding sidewalks, please provide the following information:

| Sidewalk Information | | | |
|----------------------|------------|---------|---|
| Street Names | Dimensions | Surface | Handicapped Ramps |
| N/A | | | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| N/A | | | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |

Section G: Parking Information

| Parking Spaces | Minimum | Maximum | Proposed |
|-----------------|----------------------|---------|-------------------|
| Regular Spaces | N/A | N/A | 73 + 3 Bus Spaces |
| Handicap Spaces | 4 | N/A | 5 |
| Total Spaces | N/A | N/A | 81 |
| Loading Spaces | N/A | N/A | N/A |
| Bicycle Spaces | 25% of Auto Spaces | N/A | 14 |
| Surface Type | Asphalt and concrete | | |

Section H: Landscape Buffers

| Location (North, South, Street, Etc.) | Minimum Width | Proposed Width | Alternate Buffer | Modify Buffer |
|--|-------------------------------|----------------|------------------------------|------------------------------|
| Residences to North | 20' | N/A | <input type="checkbox"/> Yes | <input type="checkbox"/> Yes |
| Collector Street to South | 20' | N/A | <input type="checkbox"/> Yes | <input type="checkbox"/> Yes |
| Adjacent Vacant Land Zoned OI2 | 15' Internal / 10 External | N/A | <input type="checkbox"/> Yes | <input type="checkbox"/> Yes |
| | | | <input type="checkbox"/> Yes | <input type="checkbox"/> Yes |



PROJECT FACT SHEET

TOWN OF CHAPEL HILL

Planning Department

Section I: Land Use Intensity

Existing Zoning District: OI-2

Proposed Zoning Change (if any): N/A

Note: Refer to Table 3.8-1 (Dimensional Matrix) in the Land Use Management Ordinance for help completing this table.

| Zoning – Area – Ratio | | | Impervious Surface Thresholds | | | Minimum and Maximum Limitations | |
|-----------------------|------------------------|------------------------------|--------------------------------|---------------------------------|------------------------|--------------------------------------|--|
| Zoning District(s) | Floor Area Ratio (FAR) | Recreation Space Ratio (RSR) | Low Density Residential (0.24) | High Density Residential (0.50) | Non-Residential (0.70) | Maximum Floor Area (MFA) = FAR x GLA | Minimum Recreation Space (MSR) = RSR x GLA |
| OI-2 | 0.264 | 0.046 | | | | | 46,728sf |
| | | | | | | | |
| TOTAL | 0.264 | | | | | | 46,728sf |
| RCD Streamside | 0 | 0.01 | | | | | |
| RCD Managed | 0 | 0.019 | | | | | |
| RCD Upland | 0 | | | | | | |

Section J: Utility Service

Check all that apply

| | | | | |
|--------------------|---|---|--|--------------------------------|
| Water | <input checked="" type="checkbox"/> OWASA | <input type="checkbox"/> Individual Well | <input type="checkbox"/> Community Well | <input type="checkbox"/> Other |
| Sewer | <input checked="" type="checkbox"/> OWASA | <input type="checkbox"/> Individual Septic Tank | <input type="checkbox"/> Community Package Plant | <input type="checkbox"/> Other |
| Electrical | <input checked="" type="checkbox"/> Underground | <input type="checkbox"/> Above Ground | | |
| Telephone | <input checked="" type="checkbox"/> Underground | <input type="checkbox"/> Above Ground | | |
| Solid Waste | <input checked="" type="checkbox"/> Town | <input type="checkbox"/> Private | | |



**ZONING COMPLIANCE PERMIT APPLICATION
SUBMITTAL REQUIREMENTS
TOWN OF CHAPEL HILL
Planning Department**

The following must accompany your application. Failure to do so will result in your application being considered incomplete. For assistance with this application, please contact the Chapel Hill Planning Department (Planning) at (919)968-2728 or at planning@townofchapelhill.org. For detailed information, please refer to the Description of Detailed Information handout.

| | | | |
|-----|---|----------------|--------|
| X | Application fee (refer to fee schedule) | Amount Paid \$ | 645.00 |
| X | Digital Files - provide digital files of all plans and documents | | |
| X | Recorded Plat or Deed of Property | | |
| X | Project Fact Sheet | | |
| X | Written Narrative describing the proposal | | |
| X | Street Addressing (Engineering Department) | | |
| N/A | Engineering Construction Permit Application (for work proposed in the public right-of-way) | | |
| X | Utility Service Clearance | | |
| N/A | Erosion Control Permit (Orange or Durham County if land disturbance greater than 20,000 square feet) | | |
| X | Stream Determination - necessary for all submittals | | |
| X | Jurisdictional Wetland Determination – if applicable | | |
| N/A | Resource Conservation District Encroachment Exemption or Variance (determined by Planning) | | |
| X | Jordan Buffer Authorization Certificate or Mitigation Plan Approval (determined by Planning) | | |
| X | Reduced Site Plan Set (reduced to 8.5"x11") | | |

Stormwater Impact Statement (1 copy to be submitted)

- a) Written narrative describing existing & proposed conditions, anticipated stormwater impacts and management structures and strategies to mitigate impacts
- b) Description of land uses and area (in square footage)
- c) Existing and proposed Impervious surface area in square feet for all subareas and project area
- d) Ground cover and uses information
- e) Soil information (classification, infiltration rates, depth to groundwater and bedrock)
- f) Time of concentration calculations and assumptions
- g) Topography (2-foot contours)
- h) Pertinent on-site and off-site drainage conditions
- i) Upstream and/or downstream volumes
- j) Discharges and velocities
- k) Backwater elevations and effects on existing drainage conveyance facilities
- l) Location of jurisdictional wetlands and regulatory FEMA Special Flood Hazard Areas
- m) Water quality volume calculations
- n) Drainage areas and sub-areas delineated
- o) Peak discharge calculations and rates (1, 2, and 25-year storms)
- p) Hydrographs for pre- & post-development without mitigation, post-development with mitigation
- q) Volume calculations and documentation of retention for 2-year storm
- r) 85% TSS removal for post-development stormwater run-off



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Planning Department**

- s) Nutrient loading calculations
- t) BMP sizing calculations
- u) Pipe sizing calculations and schedule (include HGL & EGL calculations and profiles)

Plan Sets (10 copies to be submitted no larger than 24"x36")

Plans should be legible and clearly drawn. All plan sets sheets should include the following:

- Project Name
- Legend
- Labels
- North Arrow (North oriented toward top of page)
- Property Boundaries with bearing and distances
- Scale (Engineering), denoted graphically and numerically
- Setbacks
- Streams, RCD Boundary, Jordan Riparian Buffer Boundary, Floodplain, and Wetlands Boundary, where applicable
- Revision dates and professional seals and signatures, as applicable

Area Map

- a) Project name, applicant, contact information, location, PIN, & legend
- b) Dedicated open space, parks, greenways
- c) Overlay Districts, if applicable
- d) Property lines, zoning district boundaries, land uses, project names of site and surrounding properties, significant buildings, corporate limit lines
- e) Existing roads (public & private), rights-of-way, sidewalks, driveways, vehicular parking areas, bicycle parking, handicapped parking, street names.

Existing Conditions Plan

- a) Slopes, soils, environmental constraints, existing vegetation, and any existing land features
- b) Location of all existing structures and uses
- c) Existing property line and right-of-way lines
- d) Existing utilities & easements including location & sizes of water, sewer, electrical, & drainage lines
- e) Nearest fire hydrants
- f) Nearest bus shelters and transit facilities
- g) Existing topography at minimum 2-foot intervals and finished grade
- h) Natural drainage features & water bodies, floodways, floodplain, RCD, Jordan Buffers & Watershed boundaries

Detailed Site Plan

- a) Existing and proposed building locations
- b) Description & analysis of adjacent land uses, roads, topography, soils, drainage patterns, environmental constraints, features, existing vegetation, vistas (on & off-site)
- c) Location, arrangement, & dimension of vehicular parking, width of aisles and bays, angle of parking, number of spaces, handicapped parking, bicycle parking . Typical pavement sections & surface type



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SUBMITTAL REQUIREMENTS
TOWN OF CHAPEL HILL
Planning Department**

- d) Location of existing and proposed fire hydrants
- e) Location and dimension of all vehicle entrances, exits, and drives
- f) Dimensioned street cross-sections and rights-of-way widths
- g) Pavement and curb & gutter construction details
- h) Dimensioned sidewalk and tree lawn cross-sections
- i) Proposed transit improvements including bus pull-off and/or bus shelter
- j) Required buffers (or proposed alternate buffers)
- k) Required recreation area/space (including written statement of recreation plans)
- l) Refuse collection facilities (existing and proposed) or shared dumpster agreement
- m) Construction parking, staging, storage area, and construction trailer location

Stormwater Management Plan

- a) Topography (2-foot contours)
- b) Existing drainage conditions
- c) RCD and Jordan Riparian Buffer delineation and boundary (perennial & intermittent streams, note ephemeral streams on site)
- d) Proposed drainage and stormwater conditions
- e) Drainage conveyance system (piping)
- f) Roof drains
- g) Easements
- h) BMP plans, dimensions, details, and cross-sections
- i) Planting and stabilization plans and specifications

Landscape Protection Plan

- a) Rare, specimen, and significant tree survey within 50 feet of construction area
- b) Rare and specimen tree critical root zones
- c) Rare and specimen trees proposed to be removed
- d) Certified arborist tree evaluation, if applicable
- e) Significant tree stand survey
- f) Clearing limit line
- g) Proposed tree protection /silt fence location
- h) Pre-construction/demolition conference note
- i) Detailed tree protection fencing
- j) Landscape protection supervisor note
- k) Existing and proposed tree canopy calculations, if applicable

Steep Slopes Plan

- a) Classify and quantify slopes 0-10%, 10-15%, 15-25% and 25% and greater
- b) Show and quantify areas of disturbance in each slope category
- c) Provide/show specialized site design and construction techniques



Grading and Erosion Control Plan

- a) Topography (2-foot contours)
- b) Cut and Fill Lines
- c) Cross-sections (Streets)
- d) Detailed Drawings of infrastructure (BMPs, curb inlets, infiltration systems, erosion control, etc.)
- e) Limits of Disturbance
- f) Pertinent off-site drainage features
- g) Existing and proposed impervious surface tallies
- h) Ground cover
- i) Spot elevations when necessary
- j) Size calculations

Solid Waste Plan

- a) Solid Waste Management Plan approval by Orange County
- b) Existing and proposed dumpster pads
- c) Proposed dumpster pad layout design
- d) Proposed dumpster pad construction section
- e) Proposed dumpster pad protective bollard and screening fence details
- f) Proposed heavy duty pavement locations and pavement construction detail
- g) Existing pavement damage waiver note
- h) Refuse facility lighting plan
- i) Shared dumpster agreement, in lieu of above

Fire Protection and Utility Plan

- a) Fire Flow Report: for a fire hydrant within 500 feet of each building, provide the calculated gallons per minute of residual pressure is 20 pounds per square inch. The calculations should be sealed by a licensed professional engineer in North Carolina and accompanied by a water supply flow test conducted within one year of the submittal (see Town of Chapel Hill Design Manual for required gallons per minute)
- b) Indicate location and size of water, sewer, electric, cable, telephone, gas and fire safety apparatus

ATTACHMENT 1
WRITTEN NARRATIVE

November 12, 2018

Development Services,
Town Hall – First Floor
405 Martin Luther King Jr. Blvd.
Chapel Hill, NC 27514

RE: **Finley Fields North – Phase 2**

To Whom It May Concern,

Finley Fields North Phase 1 was recently completed and UNC at Chapel Hill desires to construct Phase 2. This phase includes a grandstand for bleacher-style seating at the track facility, a small restroom building and the necessary electrical and plumbing services for it. Water for the restroom building is provided by on-site water installed during Phase 1. Sewer service for the restroom building is provided by on-site force main installed in Phase 1. A new package pump station will be installed in this phase.

Sincerely,

MCADAMS



Daryl Riggins, PE
Project Manager, Institutional

**ATTACHMENT 2
STREAM DETERMINATION
JURISDICTIONAL WETLAND DETERMINATION**

**U.S. ARMY CORPS OF ENGINEERS
WILMINGTON DISTRICT**

Action Id. SAW-2016-01540 County: Orange U.S.G.S. Quad: NC-CHAPEL HILL

NOTIFICATION OF JURISDICTIONAL DETERMINATION

Property Owner: University of North Carolina
Attn: Sharon Myers
Address: Department of Environment, Health and Safety
1120 Estes Drive Ext. CB# 1650
Chapel Hill, NC 27599

| | | | |
|------------------|---------------------|--------------|------------------------------------|
| Size (acres) | <u>~39</u> | Nearest Town | <u>Chapel Hill</u> |
| Nearest Waterway | <u>Morgan Creek</u> | River Basin | <u>Haw</u> |
| USGS HUC | <u>3030002</u> | Coordinates | <u>35.899395° N, -79.024901° W</u> |

Location description: The project area is located north and south of Mason Farm Road, approximately 0.25 mile west of its intersection with Finley Golf Course Road, in Chapel Hill, Orange County, North Carolina.

Indicate Which of the Following Apply:

A. Preliminary Determination

- Based on preliminary information, there may be waters of the U.S., including wetlands on the above described project area/property. We strongly suggest you have this property inspected to determine the extent of Department of the Army (DA) jurisdiction. To be considered final, a jurisdictional determination must be verified by the Corps. This preliminary determination is not an appealable action under the Regulatory Program Administrative Appeal Process (Reference 33 CFR Part 331). If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also, you may provide new information for further consideration by the Corps to reevaluate the JD.

B. Approved Determination

- There are Navigable Waters of the United States within the above described project area/property subject to the permit requirements of Section 10 of the Rivers and Harbors Act and Section 404 of the Clean Water Act. Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
- There are waters of the U.S., including wetlands on the above described project area/property subject to the permit requirements of Section 404 of the Clean Water Act (CWA)(33 USC § 1344). Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
- We strongly suggest you have the waters of the U.S., including wetlands on your project area/property delineated. Due to the size of your property and/or our present workload, the Corps may not be able to accomplish this wetland delineation in a timely manner. For a more timely delineation, you may wish to obtain a consultant. To be considered final, any delineation must be verified by the Corps.
- The waters of the U.S. within your project area have been delineated and the delineation has been verified by the Corps. We strongly suggest you have this delineation surveyed. Upon completion, this survey should be reviewed and verified by the Corps. Once verified, this survey will provide an accurate depiction of all areas subject to CWA jurisdiction on your property which, provided there is no change in the law or our published regulations, may be relied upon for a period not to exceed five years.
- The waters of the U.S., including wetlands have been delineated and surveyed and are accurately depicted on the plat signed by the Corps Regulatory Official identified below on __. Unless there is a change in the law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
- There are no waters of the U.S., to include wetlands, present on the above described project area/property which are subject to the permit requirements of Section 404 of the Clean Water Act (33 USC 1344). Unless there is a change in the

law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

- The property is located in one of the 20 Coastal Counties subject to regulation under the Coastal Area Management Act (CAMA). You should contact the Division of Coastal Management in Morehead City, NC, at (252) 808-2808 to determine their requirements.

Placement of dredged or fill material within waters of the US and/or wetlands without a Department of the Army permit may constitute a violation of Section 301 of the Clean Water Act (33 USC § 1311). If you have any questions regarding this determination and/or the Corps regulatory program, please contact David E. Bailey at (919) 554-4884 extension 30 / David.E.Bailey2@usace.army.mil.

C. Basis For Determination: The site exhibits waterbodies with indicators of ordinary high water. The waters on site include Meeting of the Waters Creek and Chapel Creek – all Relatively Permanent Waters (RPWs) that flow via Morgan Creek (RPW, also on site), to Jordan Lake, a Traditionally Navigable Water. This determination is based on a field verification by David E. Bailey (USACE) on 5/17/2016.

D. Remarks: The waters of the US on the property were flagged by George Buckholz (McAdams), and are approximated on the attached sheet titled "Figure 3. Existing Conditions."

E. Attention USDA Program Participants

This delineation/determination has been conducted to identify the limits of Corps' Clean Water Act jurisdiction for the particular site identified in this request. The delineation/determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985. If you or your tenant are USDA Program participants, or anticipate participation in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service, prior to starting work.

F. Appeals Information (This information applies only to approved jurisdictional determinations as indicated in B. above)

This correspondence constitutes an approved jurisdictional determination for the above described site. If you object to this determination, you may request an administrative appeal under Corps regulations at 33 CFR Part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and request for appeal (RFA) form. If you request to appeal this determination you must submit a completed RFA form to the following address:

US Army Corps of Engineers
South Atlantic Division
Attn: Jason Steele, Review Officer
60 Forsyth Street SW, Room 10M15
Atlanta, Georgia 30303-8801

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR part 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by 10/3/2016.

****It is not necessary to submit an RFA form to the Division Office if you do not object to the determination in this correspondence.****

Corps Regulatory Official: _____

Digitally signed by BAILEY.DAVID.E.1379283736
DN: c=US, o=U.S. Government, ou=DoD, ou=PKI,
ou=USA, cn=BAILEY.DAVID.E.1379283736
Date: 2016.08.04 12:23:47 -04'00'

Date: 8/4/2016

Expiration Date: 8/4/2021

The Wilmington District is committed to providing the highest level of support to the public. To help us ensure we continue to do so, please complete the attached customer Satisfaction Survey or visit http://corpsmapu.usace.army.mil/cm_apex/f?p=136:4:0 to complete the survey online.

Copy furnished:

George Buckholz, The John R. McAdams Company, Inc., 2905 Meridian Parkway, Durham, NC 27713
Cherri Smith, NCDENR-DWR, 1628 Mail Service Center, Raleigh, NC 27699-1628

**NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND
REQUEST FOR APPEAL**

Applicant: University of North Carolina | File Number: SAW-2016-01540 | Date: 8/4/2016

Attached is: | See Section below

| | | |
|-------------------------------------|--|---|
| <input type="checkbox"/> | INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission) | A |
| <input type="checkbox"/> | PROFFERED PERMIT (Standard Permit or Letter of permission) | B |
| <input type="checkbox"/> | PERMIT DENIAL | C |
| <input checked="" type="checkbox"/> | APPROVED JURISDICTIONAL DETERMINATION | D |
| <input type="checkbox"/> | PRELIMINARY JURISDICTIONAL DETERMINATION | E |

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at or <http://www.usace.army.mil/Missions/CivilWorks/RegulatoryProgramandPermits.aspx> or the Corps regulations at 33 CFR Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B: PROFFERED PERMIT: You may accept or appeal the permit

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- **ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- **APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the district engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION:

If you have questions regarding this decision and/or the appeal process you may contact:

**District Engineer, Wilmington Regulatory Division,
attn: David E. Bailey, Project Manager
Wilmington Regulatory Field Office
69 Darlington Avenue
Wilmington, North Carolina 28403**

If you only have questions regarding the appeal process you may also contact:

**Mr. Jason Steele, Administrative Appeal Review Officer
CESAD-PDO
U.S. Army Corps of Engineers, South Atlantic Division
60 Forsyth Street, Room 10M15
Atlanta, Georgia 30303-8801
Phone: (404) 562-5137**

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

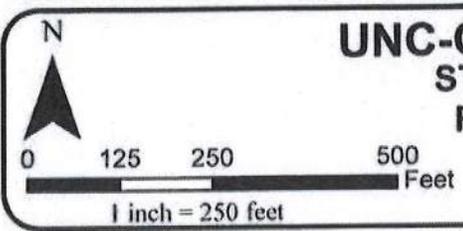
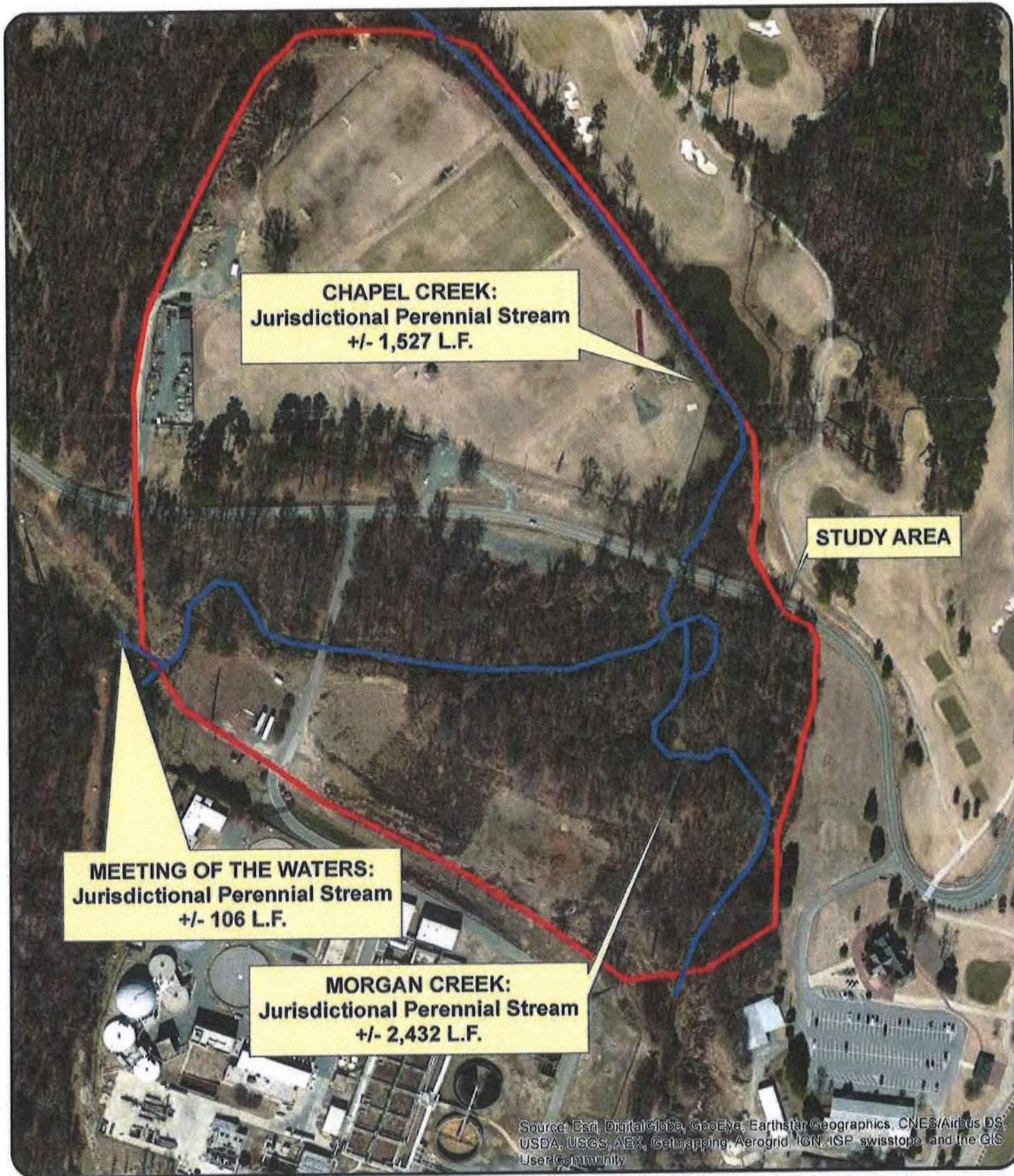
| | | |
|----------------------------------|-------|-------------------|
| Signature of appellant or agent. | Date: | Telephone number: |
|----------------------------------|-------|-------------------|

For appeals on Initial Proffered Permits send this form to:

District Engineer, Wilmington Regulatory Division, attn: David E. Bailey, Regulatory Specialist, 69 Darlington Avenue, Wilmington, North Carolina 28403

For Permit denials, Proffered Permits and approved Jurisdictional Determinations send this form to:

**Division Engineer, Commander, U.S. Army Engineer Division, South Atlantic, Attn: Mr. Jason Steele, Administrative Appeal Officer, CESAD-PDO, 60 Forsyth Street, Room 10M15, Atlanta, Georgia 30303-8801
Phone: (404) 562-5137**



**UNC-CH FINLEY FIELDS EXPANSION
STREAM & WETLAND DELINEATION
FIGURE 3. EXISTING CONDITIONS
PROJECT #: EDF-16000
CHAPEL HILL, ORANGE COUNTY, NC**



ATTACHMENT 3
JORDAN BUFFER AUTHORIZATION CERTIFICATE



ROY COOPER

Governor

MICHAEL S. REGAN

Secretary

S. JAY ZIMMERMAN

Director

February 21, 2017

DWR #16-0671 v2
Orange County

UNC – Chapel Hill, Dept. of Environment,
Health and Safety
Attn: Sharon Myers
1120 Estes Dr. Extension, CB #1650
Chapel Hill, NC 27599-1650

**Subject: AUTHORIZATION CERTIFICATE PER THE JORDAN LAKE WATER SUPPLY WATERSHED
RIPARIAN BUFFER PROTECTION RULES (15A NCAC 02B .0267) WITH ADDITIONAL
CONDITIONS
Finley Fields-North**

Dear Ms. Myers:

You have our approval for the impacts listed below for the purpose described in your application dated January 31, 2017 and received by the Division of Water Resources (Division) on February 06, 2017. Please note that you should get any other federal, state or local permits before proceeding with your project, including those required by (but not limited to) Sediment and Erosion Control, Non-Discharge, and Water Supply Watershed regulations. **This Authorization Certificate shall expire five (5) years from the date of this letter.**

This approval requires you to comply with the following conditions:

1. The following impacts are hereby approved provided that all of the other specific and general conditions of the Buffer Rules are met. No other impacts are approved, including incidental impacts. [15A NCAC 02B .0267(11)]

| Type of Impact | Amount Approved (units) Permanent | Amount Approved (units) Temporary |
|---|-----------------------------------|-----------------------------------|
| Buffers – Zone 1 | | |
| B1-Outlet Structure | 1013 (square feet) | 0 (square feet) |
| B2-Removal of Irrigation system/Grading | 0 (square feet) | 1294 (square feet) |

| | | |
|--|---------------------|--------------------|
| B3-Removal of Irrigation system/Grading | 0 (square feet) | 8 (square feet) |
| B4-Removal of Irrigation system/Grading | 0 (square feet) | 22 (square feet) |
| B5-Removal of Irrigation system/Grading | 0 (square feet) | 236 (square feet) |
| B6-Removal of Irrigation system/Grading | 0 (square feet) | 57 (square feet) |
| B7 & B12-Removal of ball netting and poles/Grading | 0 (square feet) | 6193 (square feet) |
| Buffers – Zone 2 | | |
| B8-Outlet Structure | 716 (square feet) | 0 (square feet) |
| B9-Emergency Spillway/Greenway Trail | 192 (square feet) | 0 (square feet) |
| B10-Grading | 0 (square feet) | 3059 (square feet) |
| B11-Greenway Trail | 18212 (square feet) | (square feet) |

1. Diffuse Flow

All stormwater must be directed and maintained as diffuse flow at non-erosive velocities through the protected stream buffers such that it will not re-concentrate before discharging into a stream. [15A NCAC 02B .0267(8)]

2. No Waste, Spoil, Solids, or Fill of Any Kind

No waste, spoil, solids, or fill of any kind shall occur in wetlands, waters, or riparian areas beyond the footprint of the impacts depicted in the Pre-Construction Notification. All construction activities, including the design, installation, operation, and maintenance of sediment and erosion control Best Management Practices, shall be performed so that no violations of state water quality standards, statutes, or rules occur [15A NCAC 02H .0501 and .0502].

3. Protective Fencing

All wetlands, streams, surface waters, and riparian buffers located within 50 feet of the construction area on the project site shall be clearly marked (example- orange fabric fencing) prior to any land disturbing activities and must be maintained on the property until the project phase is completed. [15A NCAC 02H .0506 (b)(2) and (c)(2) and 15A NCAC 02H .0507 (c)]

4. This approval is for the purpose and design described in your application. The plans and specifications for this project are incorporated by reference as part of the Buffer Authorization. If you change your project, you must notify the Division and you may be required to submit a new application package with the appropriate fee. If the property

is sold, the new owner must be given a copy of this approval letter and is responsible for complying with all conditions.

5. This approval and its conditions are final and binding unless contested. [G.S. 143-215.5]

This Buffer Authorization can be contested as provided in Articles 3 and 4 of General Statute 150B by filing a written petition for an administrative hearing to the Office of Administrative Hearings (hereby known as OAH). A petition form may be obtained from the OAH at <http://www.ncoah.com/> or by calling the OAH Clerk's Office at (919) 431-3000 for information. Within **thirty (30) calendar days** of receipt of this notice, a petition must be filed with the OAH. A petition is considered filed when the original and one (1) copy along with any applicable OAH filing fee is received in the OAH during normal office hours (Monday through Friday between 8:00am and 5:00pm, excluding official state holidays). The petition may be faxed to the OAH at (919) 431-3100, provided the original and one copy of the petition along with any applicable OAH filing fee is received by the OAH within five (5) business days following the faxed transmission.

Mailing address for the OAH:

*If sending by First Class Mail
via the US Postal Service:*
Office of Administrative Hearings
6714 Mail Service Center
Raleigh, NC 27699-6714

*If sending via delivery service
(e.g. UPS, FedEx):*
Office of Administrative Hearings
1711 New Hope Church Road
Raleigh, NC 27609-6285

One (1) copy of the petition must also be served to DENR:

Sam Hayes, General Counsel
Department of Environment and Natural Resources
1601 Mail Service Center
Raleigh, NC 27699-1601

Please send one (1) copy of the petition to DWQ:

*If sending by First Class Mail
via the US Postal Service:*

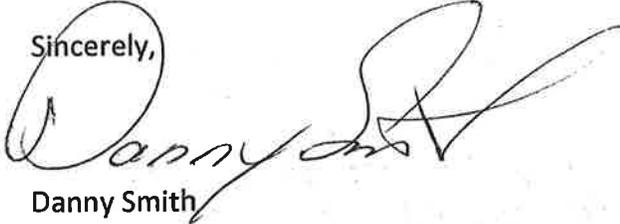
Karen Higgins
NC DENR-DWR – 401 & Buffer
Permitting Unit
1617 Mail Service Center
Raleigh, NC 27699-1617

*If sending via delivery service
(e.g. UPS, FedEx):*

Karen Higgins
NC DENR-DWR – 401 & Buffer
Permitting Unit
512 N. Salisbury Street
Raleigh, NC 27604

This letter completes the review of the Division under the Jordan Lake Water Supply Watershed Riparian Buffer Protection Rules as described in 15A NCAC 02B .0267. Please contact Stephanie Goss at 919-791-4256 or Stephanie.Goss@ncdenr.gov if you have any questions or concerns.

Sincerely,

A handwritten signature in black ink, appearing to read "Danny Smith". The signature is fluid and cursive, with a large initial "D" and "S".

Danny Smith
Supervisor, Water Quality Regional Operations Section

cc: DWR RRO 401/Buffer file
DWR 401 & Buffer Permitting Unit file
George Buchholz; McAdams Company, Inc.; 2905 Meridian Pkwy.; Durham, NC 27713

**ATTACHMENT 4
REDUCED SITE PLAN**

FINLEY FIELDS NORTH

PHASE 2 - CONSTRUCTION DRAWINGS

SCO #17-16917-01B
 153 OLD MASON FARM ROAD
 CHAPEL HILL, NORTH CAROLINA 27514
 PROJECT NUMBER: EDF-16020

DATE: AUGUST 31, 2018

SHEET INDEX

CIVIL

- C-4A OVERALL SITE PLAN
- C-8A UTILITY PLAN
- CD-9 SANITARY SEWER PUMP STATION DETAILS

ELECTRICAL

- E0.01 ELECTRICAL SYMBOLS & ABBREVIATION
- E1.11 ELECTRICAL SITE PLAN
- E1.32 ELECTRICAL ENLARGED PLANS
- E2.02 ELECTRICAL DETAILS
- E4.01 ELECTRICAL SINGLE LINE DIAGRAM

STRUCTURAL

- S0.1 RESTROOM BUILDING STRUCTURAL NOTES
- S1.1 RESTROOM BUILDING FOUNDATION AND FRAMING PLANS
- S1.2 TRACK STORAGE BUILDING FOUNDATION AND FRAMING PLANS

MECHANICAL

- M1.00 MECHANICAL SYMBOLS AND ABBREVIATIONS
- M1.10 MECHANICAL ENLARGED PLANS
- M1.20 MECHANICAL DETAILS AND SCHEDULES

PLUMBING

- P0.00 PLUMBING SYMBOLS & ABBREVIATION
- P1.10 PLUMBING FLOOR PLAN
- P1.20 PLUMBING FLOOR PLAN
- P5.10 PLUMBING DETAILS
- P6.10 PLUMBING SCHEDULES

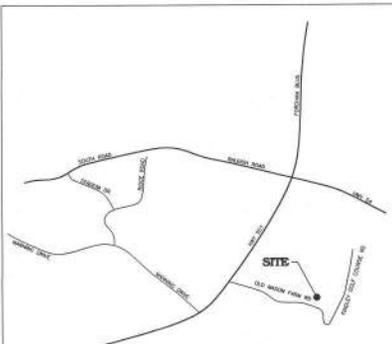
ARCHITECTURAL

- A0.1 BUILDING CODE SUMMARY - RESTROOM BUILDING
- A0.4 BUILDING CODE SUMMARY - GRANDSTAND
- A1.1 RESTROOM BUILDING PLANS
- A1.2 RESTROOM BUILDING ELEVATIONS
- A1.3 RESTROOM BUILDING WALL SECTIONS & DETAILS
- A1.4 RESTROOM BUILDING WALL SECTIONS & DETAILS
- A4.1 GRANDSTAND

OWNER CONTACT:

THE EDUCATIONAL FOUNDATION, INC.
 450 SKIPPER BOWLES DRIVE
 CHAPEL HILL, NORTH CAROLINA 27599

C/O MR. DAVID ROTMAN, AIA
 ROTMAN ARCHITECTURE, PA
 512 SAINT MARY'S STREET
 SUITE 105
 RALEIGH, NORTH CAROLINA 27605



VICINITY MAP
 NTS



Know what's below.
 Call before you dig.

CONTRACTOR SHALL NOTIFY 'NC811' (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF 'NC811'. REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.

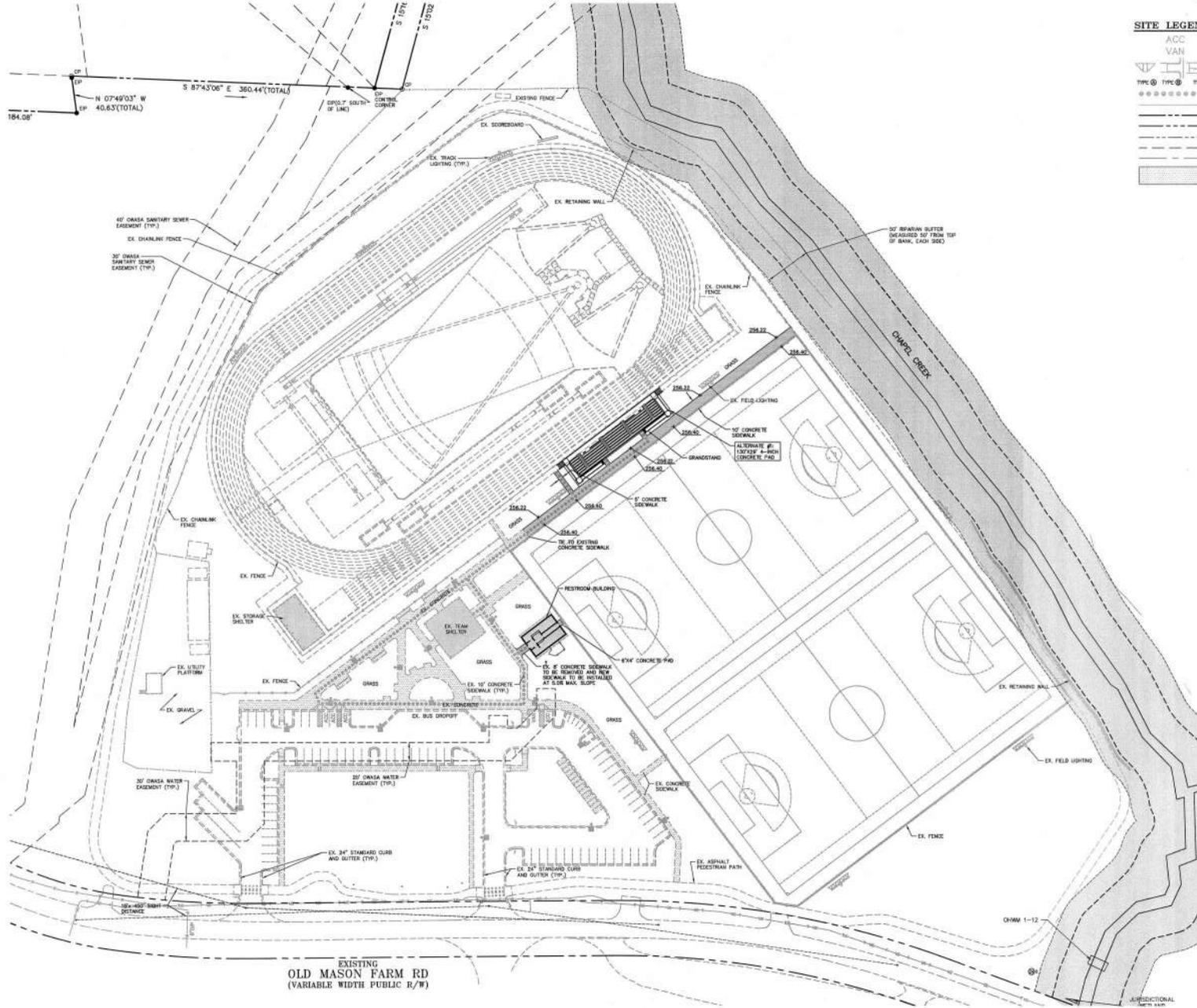


THE JOHN R. McADAMS
 COMPANY, INC.
 2905 Meridian Parkway
 Durham, North Carolina 27713
 License No.: C-0293
 919.361.5000 • McAdamsCo.com
 Contact: Brandon Finch
 Finch@mcadamsco.com

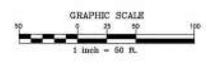
SCO #17-16917-01B

SITE LEGEND

- ACC VAN ACCESSIBLE PARKING STALL
- VAN ACCESSIBLE PARKING STALL
- ACCESSIBLE RAMPS
- ACCESSIBLE ROUTE
- FENCE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- LOT LINE
- EASEMENT LINE
- CENTRALINE
- CONCRETE SIDEWALK



EXISTING
OLD MASON FARM RD
(VARIABLE WIDTH PUBLIC R/W)



FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

AEI Affiliated Engineers
 1402 Highway 100, Suite 200
 Charlotte, NC 28203
 (704) 363-4200
 www.aei-engineers.com

THE JERRY R. MCADAMS COMPANY, INC.
 2605 Meridian Parkway
 Durham, NC 27713
 (919) 733-9969 • www.McAdamsCo.com



DATE: 08-13-2018
 SHEET NO: C-4A

OWNER:
 THE EDUCATIONAL FOUNDATION, INC.
 450 WESTER HILLS DRIVE
 CHAPEL HILL, NORTH CAROLINA 27599

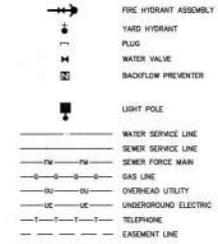
FINLEY FIELDS NORTH
 PHASE 2 - CONSTRUCTION DRAWINGS
 THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
 CHAPEL HILL, NORTH CAROLINA

PROJECT NO: ECF-16020
 DRAWING: ECF16020-CAS2
 CHECKED BY:
 DESIGNED BY:
 DATE: 08-13-2018
 SHEET NO: C-4A



SCO #17-16917-01B

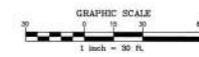
UTILITY LEGEND



NOTES:

1. INTERIOR POINTS OF ENTRY INTO THE PUMP STATION SHALL BE PROVIDED TO PREVENT FLOOD WATERS FROM ENTERING THE WET WELL. ALL ELECTRICAL AND CONTROLS GEAR SHALL BE ELEVATED TO MINIMUM TWO FEET ABOVE THE 100-YEAR FLOOD ELEVATION OF 258.83.

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT OWASA ENGINEERING DESIGN AND CONSTRUCTION STANDARDS



FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

AEI Affiliated Engineers
 1415 Southpark Drive, Suite 200
 Durham, North Carolina 27713
 (919) 488-4200
 www.aei-engineers.com

THE JOHN B. MCADAMS COMPANY, INC.
 2605 Meridian Parkway
 Durham, North Carolina 27713
 (800) 753-5646 • McAdamsCo.com



REVISIONS:

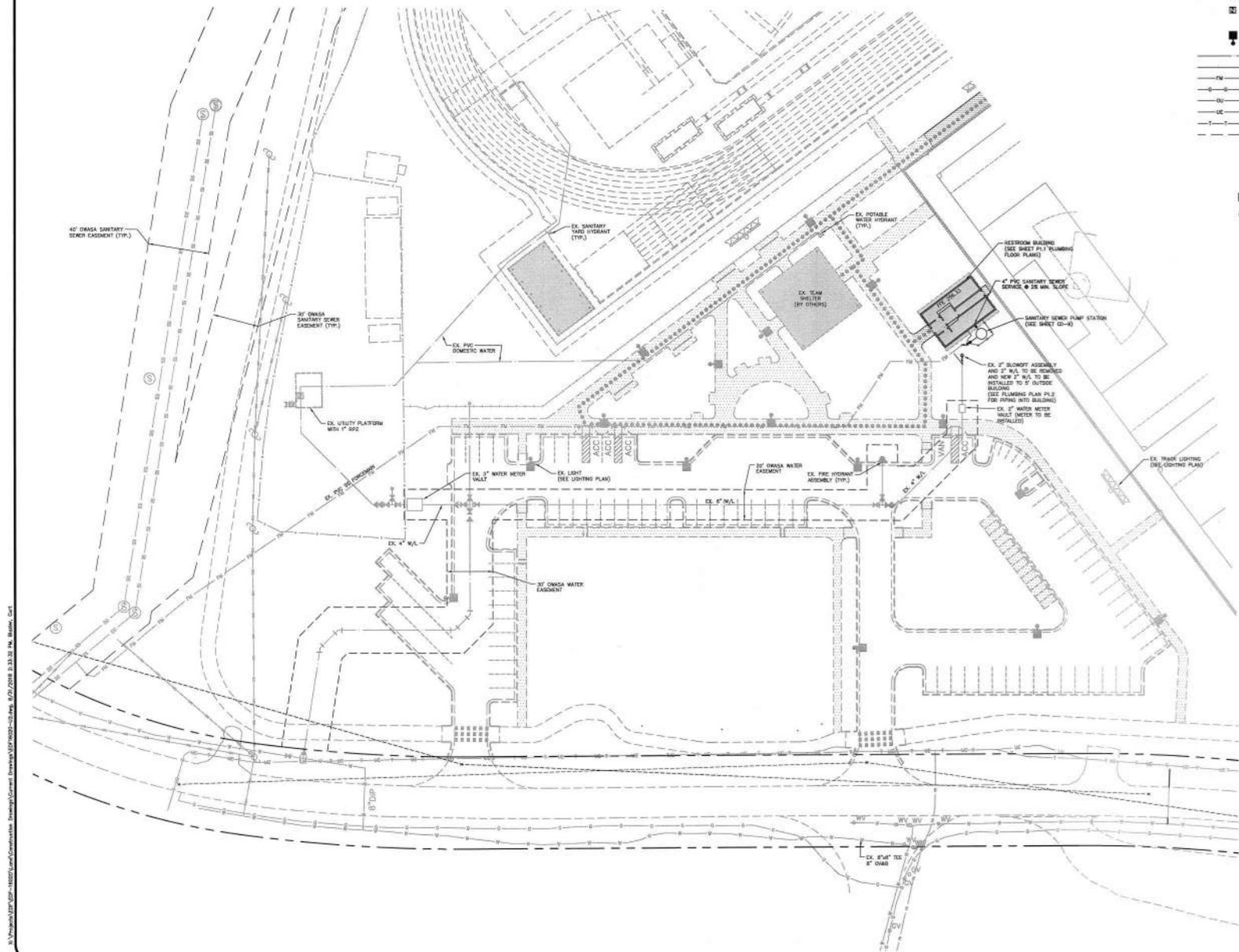
OWNER: THE EDUCATIONAL FOUNDATION, INC.
 450 SOUTHERN BOWLING DRIVE
 CHARLE HILL, NORTH CAROLINA 27099

DESIGNER: FINLEY FIELDS NORTH
 THE UNIVERSITY OF NORTH CAROLINA AT CHARLE HILL
 CHARLE HILL, NORTH CAROLINA

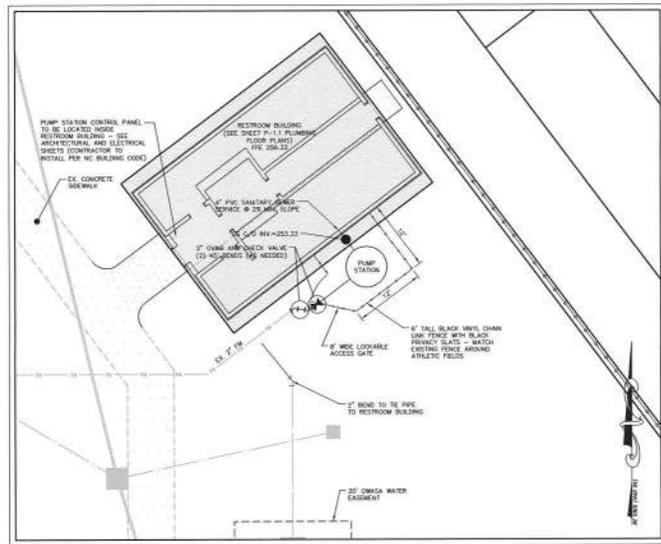
FINLEY FIELDS NORTH
 PHASE 2 - CONSTRUCTION DRAWINGS
 THE UNIVERSITY OF NORTH CAROLINA AT CHARLE HILL
 CHARLE HILL, NORTH CAROLINA

UTILITY PLAN

PROJECT NO: EDY-16020
 DRAWING NO: EDY16020-U1
 DESIGNER: JF
 DRAWN BY: JF
 SCALE: 1" = 30'
 DATE: 08-13-2018
 SHEET NO: C-8A



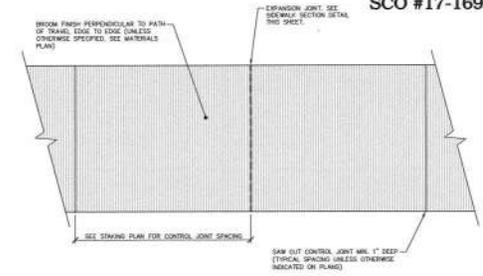
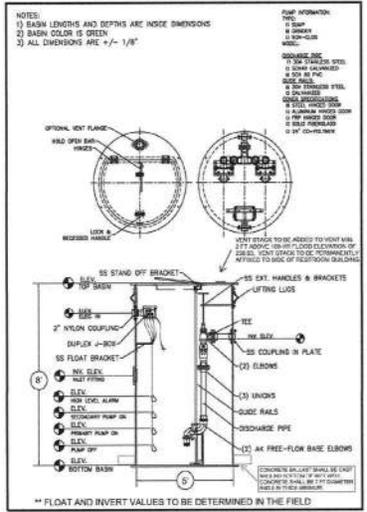
D:\Projects\16020\16020-01\16020-01-01\16020-01-01.dwg, 8/17/2018 3:33:32 PM, JF, JF



UTILITY INSET
GRAPHIC SCALE
1 inch = 10 ft.

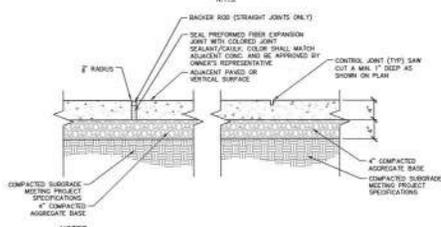
PUMP STATION NOTES:

1. PACKAGE GRINDER PUMP STATION CAPABLE OF PUMPING 50 GPM AT 90 FEET TOTAL DYNAMIC HEAD. PUMPS SHALL BE 3 HP MINIMUM, 480V, 3 PHASE.
2. WATERPROOF PORTS OF ENTRY INTO THE PUMP STATION SHALL BE PROVIDED TO PREVENT FLOOD WATER FROM ENTERING THE WET WELL. ALL ELECTRICAL CONTROL GEAR AND WET WELL VENT SHALL BE ELEVATED TO MIN. TWO FEET ABOVE THE 100-YEAR FLOOD ELEVATION OF 258.93.
3. ACCESS HATCH SHALL BE WATERPROOF.
4. 100-YEAR FLOOD ELEVATION AT PUMP STATION SITE IS 258.93.
5. TOP OF PUMP STATION TO BE INSTALLED 8-INCHES ABOVE SURROUNDING GRADE.
6. PUMP STATION WET WELL SHALL BE FIBERGLASS AS SHOWN ON THE DETAILS ON APPROVED EQUAL.
7. PUMP STATION PIPING SHALL BE STAINLESS STEEL AND/OR SCHEDULE 80 PVC.
8. CONTROL PANEL TO CONTAIN THE FOLLOWING ELEMENTS:
 - EX TYPE 4X ENCLOSURE
 - STAINLESS DOOR LATCHES WITH PADLOCK
 - 350 VISUAL ALARM
 - AUDIBLE ALARM W/SILENCE CIRCUIT
 - SEPARATE ALARM AND CONTROL PIPES
 - UL LISTED COMPONENTS
 - 50 AMPED CONTACTOR
 - PUMP CIRCUIT BREAKER(S)
 - PUMP RUN LIGHTS
 - 3 FLOOD SYSTEM
 - ALARMING RELAYS
 - LABELLED TERMINAL BLOCKS
 - WINDING SADDLE WOOD DOOR
 - LIGHTNING / SURGE ARRESTOR
9. CONTRACTOR TO INSTALL CONTROL PANEL PER NC BUILDING CODE.



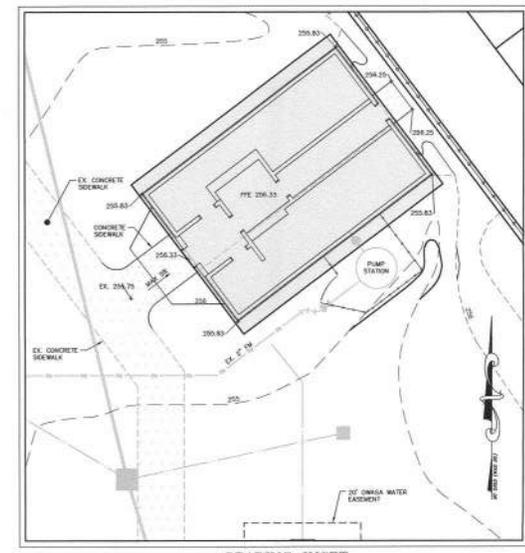
- NOTES:**
1. REFER TO DETAILED LAYOUT PLAN FOR SIDEWALK LOCATIONS, TYPES AND WIDTHS.
 2. REFER TO DETAILED LAYOUT PLAN FOR SPECIFIC JOINT LOCATIONS AND SPACING.
 3. USE THIS DETAIL FOR TYPICAL JOINT SPACING WHEN NO SPECIFIC JOINT SPACING IS INDICATED ON PLANS.
 4. CONTROL JOINT SPACING SHALL BE EQUAL TO SIDEWALK WIDTH BUT IN NO INSTANCE EXCEED 4'. SEE MATERIALS & STAGING PLAN FOR ALL OTHER JOINT SPACING.
 5. STAGING PLAN FOR ALL OTHER JOINT SPACING.
 6. MAXIMUM SIDEWALK CROSS-SLOPE IS 2%.

SIDEWALK DETAIL - PLAN VIEW



- NOTES:**
1. EXPANSION JOINTS SHALL BE INSTALLED WHERE CONCRETE PLACEMENT AVERTS ALL VERTICAL SURFACES INCLUDING BUT NOT LIMITED TO ALL BUILDINGS, STRUCTURES, STAIRS, CURBS, COLUMNS, WALLS, LIGHT FIXES, ETC.
 2. WHERE WALK ABOVE ROAD STRUCTURE, JOINT SHALL BE WATERPROOF.
 3. PROVIDE EXPANSION JOINTS @ 20' O.C. MAX UNLESS OTHERWISE SHOWN/REQUIRED. (SEE MATERIALS & STAGING PLAN)
 4. CONTROL JOINT SPACING SHALL BE EQUAL TO SIDEWALK WIDTH BUT IN NO INSTANCE EXCEED 4'. SEE MATERIALS & STAGING PLAN FOR ALL OTHER JOINT SPACING.
 5. SAW CUT TO A MIN. DEPTH OF 1". CONTRACTOR TO FURNISH COORDINATE LOCATIONS AND DESIGNS PRIOR TO ANY SIGNING CONSTRUCTION.
 6. ALL CONCRETE SHALL BE 3000 PSI UNLESS OTHERWISE REQUIRED BY PROJECT SPECIFICATIONS.

SIDEWALK DETAIL - SECTION VIEW



GRADING INSET
GRAPHIC SCALE
1 inch = 10 ft.

FIFIELDS
The Good Roadway
1414 Westpark Blvd., Ste. 300
Durham, NC 27709
Tel: 919.487.4229
Fax: 919.487.4229
www.fifields.com

AEL Engineers
1414 Westpark Blvd., Ste. 300
Durham, NC 27709
Tel: 919.487.4229
Fax: 919.487.4229
www.ael.com

THE JOHN S. MCADAMS COMPANY, INC.
2000 Mountain Parkway
Durham, North Carolina 27713
(919) 733-9568 • www.mcadams.com

MCADAMS

PROFESSIONAL SEAL
033842
10/10/2018
10/10/2018
10/10/2018

REVISIONS:

DATE:

BY:

DESCRIPTION:

OWNER: THE EDUCATIONAL FOUNDATION, INC.
CHAPEL HILL, NORTH CAROLINA 27699
570 W. MARKET STREET, SUITE 100
512 SAINT MARTYR STREET, SUITE 100
RALEIGH, NORTH CAROLINA 27605

FINLEY FIELDS NORTH
PHASE 2 - CONSTRUCTION DRAWINGS
THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
CHAPEL HILL, NORTH CAROLINA

PHASE 2 DETAILS AND INSETS

PROJECT NO. EDF-16020
PLANNING: EDF16020-D1
DESIGNED BY: CMB
DRAWN BY: MAG/LAW
SCALE: AS SHOWN
DATE: 08-13-2018
SHEET NO.: **CD-9**

MCADAMS

**EXISTING
PANEL SCHEDULE**

| Bus Rating | 800A | Volts | 480/277V | kVAC Rating | 42 | Location | Utility Platform | | | | | | |
|---|-----------|-------|----------|-------------|------------|-------------|------------------|----------|---------|----------|-----------|------------|--------------|
| Main Circuit Breaker | 800A | Phase | 3 | Wires | 4 | Name Rating | TR | Mounting | Surface | | | | |
| Remarks: Parallel from Service Transformer, Provide S&A SPD (Provide Ground Fault Protection on Main Breaker) | | | | | | | | | | | | | |
| Provide NEMA 3R enclosure. Provide S&A SPD (Provide Ground Fault Protection on Main Breaker) | | | | | | | | | | | | | |
| Description | Load Type | Panel | Bus | Ckt. No. | Ckt. Lett. | A | B | C | Height | Cut. No. | Ckt. Amp. | Panel Type | Description |
| PANEL LP | L | 8003 | 1 | 74.75 | 84.06 | | | | 9.33 | 2 | 100 | R | RF VIA SPMB |
| | | | | | | | | | 9.69 | 4 | 80 | R | |
| | | | | | | | | | 10.41 | 6 | 80 | R | |
| SPACE | | | | | | | | | 10.35 | 8 | 100 | G | RRSP |
| | | | | | | | | | 8.87 | 10 | 0 | G | |
| | | | | | | | | | 8.86 | 12 | 0 | G | |
| SPACE | | | | | | | | | 2.00 | 14 | 200 | M | PUMP STATION |
| | | | | | | | | | 2.00 | 16 | 0 | M | |
| | | | | | | | | | 2.00 | 18 | 0 | M | |
| SPACE | | | | | | | | | 2.00 | 20 | 0 | M | |
| | | | | | | | | | 0.00 | 22 | 0 | M | |
| | | | | | | | | | 0.00 | 24 | 0 | M | |
| | | | | | | | | | 0.00 | 26 | 0 | M | |
| | | | | | | | | | 0.00 | 28 | 0 | M | |
| | | | | | | | | | 0.00 | 30 | 0 | M | |
| SPACE | | | | | | | | | 0.00 | 32 | 0 | M | |
| | | | | | | | | | 0.00 | 34 | 0 | M | |
| | | | | | | | | | 0.00 | 36 | 0 | M | |
| | | | | | | | | | 0.00 | 38 | 0 | M | |
| | | | | | | | | | 0.00 | 40 | 0 | M | |
| | | | | | | | | | 0.00 | 42 | 0 | M | |
| Total Load - This Panel, KVA | | | | | | | | | | 96.2 | 92.3 | 91.3 | |

| | | | |
|------------------|-------------------------------|--|-------|
| Load Type Legend | Circuit Breaker Option Legend | Total Connected Load, KVA | 279.9 |
| R - Receptacle | ST - Street Trip | Total Connected Load, Amps | 286.6 |
| L - Lighting | RL - Breaker Lock | Total Demand Load, KVA | 282.7 |
| M - Motor | CF - CFCT (On) | Total Demand Load, Amps | 609.8 |
| G - General | RY - Relay | Demand Load Includes 125% for continuous loads | |
| | EG - Equipment Ground (On) | | |

**EXISTING
PANEL SCHEDULE**

| Bus Rating | 225A | Volts | 208/120V | kVAC Rating | 10 | Location | Utility Platform | | | | | | |
|--|-----------|-------|----------|-------------|------------|-------------|------------------|----------|---------|----------|-----------|------------|------------------|
| Main Circuit Breaker | 225A | Phase | 3 | Wires | 4 | Name Rating | 3R | Mounting | Surface | | | | |
| Remarks: Parallel from MDP via 2W | | | | | | | | | | | | | |
| Provide NEMA 3R enclosure. Provide S&A SPD | | | | | | | | | | | | | |
| Description | Load Type | Panel | Bus | Ckt. No. | Ckt. Lett. | A | B | C | Height | Cut. No. | Ckt. Amp. | Panel Type | Description |
| STORAGE SELECT | R | 202 | 44 | 1 | 0.36 | 0.72 | | | 0.36 | 2 | 20 | R | TRACK PEDestal |
| | | | | | | | | | 0.72 | 4 | 20 | R | TRACK PEDestal |
| WEATHER SHIELD | R | 303 | 5 | 0.36 | 0.36 | | | | 0.36 | 8 | 20 | R | TRACK PEDestal |
| | | | | | | | | | 0.36 | 10 | 20 | R | TRACK PEDestal |
| CAMERA TOWER | R | 201 | 44 | 11 | 0.72 | | | | 0.36 | 12 | 20 | R | TRACK PEDestal |
| WEI POLE | R | 201 | 44 | 13 | 0.72 | 1.08 | | | 0.36 | 14 | 20 | R | TRACK PEDestal |
| SCOREBOARD | G | 202 | 44 | 15 | 0.72 | | | | 0.36 | 16 | 20 | R | TRACK PEDestal |
| | | | | | | | | | 0.36 | 18 | 20 | R | TRACK PEDestal |
| SCOREBOARD | G | 202 | 44 | 19 | 0.72 | 1.08 | | | 0.36 | 20 | 20 | R | TRACK PEDestal |
| | | | | | | | | | 0.36 | 22 | 20 | R | TRACK PEDestal |
| SCOREBOARD | G | 202 | 44 | 23 | 0.72 | 1.08 | | | 0.36 | 24 | 20 | R | TRACK PEDestal |
| | | | | | | | | | 0.36 | 26 | 20 | R | TRACK PEDestal |
| SCOREBOARD | G | 202 | 44 | 27 | 0.72 | 1.44 | | | 0.72 | 28 | 20 | R | TRACK PEDestal |
| | | | | | | | | | 1.44 | 30 | 20 | R | TRACK PEDestal |
| SHOT CLOCKS | G | 201 | 31 | 0.36 | 0.36 | | | | 0.36 | 32 | 40 | R | WEI POLE |
| SCOREBOARD - THEL | G | 201 | 33 | 0.36 | 0.72 | | | | 0.36 | 34 | 20 | R | TELECOM RACK |
| SCOREBOARD - THEL | G | 201 | 35 | 0.36 | 0.36 | | | | 0.36 | 36 | 20 | R | TELECOM RACK |
| KEY EXCHANGER | G | 201 | 37 | 0.36 | 2.52 | | | | 1.44 | 38 | 100 | R | PANEL RRP |
| HELIPHONE-DEL | G | 201 | 39 | 0.36 | 0.36 | 1.44 | | | 0.36 | 40 | 0 | G | |
| BACKUP UTIL. PLAT | R | 201 | 41 | 0.36 | 0.36 | 0.36 | | | 0.36 | 42 | 0 | G | |
| WEI POLE | R | 201 | 44 | 43 | 0.36 | 0.36 | | | 0.36 | 44 | 40 | R | SCOREBOARD/CNTHL |
| WEI POLE | R | 201 | 44 | 45 | 0.36 | 0.36 | | | 0.36 | 46 | 40 | R | SCOREBOARD/CNTHL |
| WEI POLE | R | 201 | 44 | 47 | 0.36 | 0.36 | | | 0.36 | 48 | 40 | R | SCOREBOARD/CNTHL |
| WEI POLE | R | 201 | 44 | 49 | 0.36 | 0.36 | | | 0.36 | 50 | 40 | R | SCOREBOARD/CNTHL |
| CAMERA TOWER | R | 201 | 44 | 51 | 0.72 | 0.90 | | | 0.36 | 52 | 20 | R | TELECOM RACK |
| WEI POLE | R | 201 | 44 | 53 | 0.36 | 0.36 | | | 0.36 | 54 | 40 | R | WEI POLE |
| Total Load - This Panel, KVA | | | | | | | | | | 9.3 | 8.7 | 7.5 | |

UNC Finley Fields North Luminaire Schedule

| TYPE | BASIS OF DESIGN | OR ACCEPTABLE ALTERNATE BY | LAMP/LIGHT ENGINE | MOUNTING | WATTS/ VOLTS | DESCRIPTION/REMARKS |
|------|---|---|--------------------------|------------------------------------|--------------|---|
| LT | Luminaire LED Visco 8 VLF 8-80V-400K-12027V-CF-04 | Katal Millennium Slimtek Select Ballastor | 400K LED 8400 lm delated | surface or stem mounting per plans | 54W 277V | Die-cast, matte grade aluminum wrap fixture, opal polycarbonate lens. Wet Location listing. All long. Provide 200A surge protector at each fixture. |
| LT | BEELP VLEM-LED | Compas C120V or approved equal | white LED | surface | 30W 277V | Wet location, shock-head LED emergency lighting unit. UL 924 listed, extended 5-year warranty. |

- Refer to specification sections 26 51 00 and 26 56 00 for additional requirements.
- Verify all luminaire mounting locations with civil plans prior to rough-in.
- Voltage indicates intended supply voltage. Provide multi-tap or multi-volt drivers whenever possible.
- All finishes to be confirmed in submittal process. Finish and options indicated as TED will be selected by the Engineer from all manufacturers listed options.
- Installation or accessory nomenclature entered as one or more x's are to be verified and coordinated between trades by the contractor.
- Listed alternates may require premium options or modifications to be considered equal to the basis of design.

PANEL SCHEDULE

| Bus Rating | 200A | Volts | 480/277V | kVAC Rating | 35 | Location | Restroom Building | | | | | | |
|--|-----------|-------|----------|-------------|------------|-------------|-------------------|----------|---------|----------|-----------|------------|----------------------|
| Main Circuit Breaker | 200A | Phase | 3 | Wires | 4 | Name Rating | 3R | Mounting | Surface | | | | |
| Remarks: Parallel from MEP | | | | | | | | | | | | | |
| Provide NEMA 3R enclosure. Provide S&A SPD | | | | | | | | | | | | | |
| Description | Load Type | Panel | Bus | Ckt. No. | Ckt. Lett. | A | B | C | Height | Cut. No. | Ckt. Amp. | Panel Type | Description |
| U141 | G | 203 | 1 | 3.33 | 4.43 | | | | 1.95 | 2 | 200 | G | U143 |
| | | | | | | | | | 4.43 | 4 | 0 | G | |
| | | | | | | | | | 4.43 | 6 | 0 | G | |
| U142 | G | 203 | 7 | 3.33 | 6.03 | | | | 1.30 | 8 | 200 | L | Restroom Building Up |
| | | | | | | | | | 5.34 | 10 | 200 | L | Restroom Building Up |
| | | | | | | | | | 3.33 | 12 | 0 | G | SPACE |
| U144 | G | 203 | 13 | 1.00 | 1.00 | | | | 1.00 | 14 | 0 | G | SPACE |
| | | | | | | | | | 1.00 | 16 | 0 | G | SPACE |
| | | | | | | | | | 1.00 | 18 | 0 | G | SPACE |
| SPACE | | | | | | | | | 0.00 | 20 | 0 | G | SPACE |
| | | | | | | | | | 0.00 | 22 | 0 | G | SPACE |
| | | | | | | | | | 0.00 | 24 | 0 | G | SPACE |
| | | | | | | | | | 0.00 | 26 | 0 | G | SPACE |
| | | | | | | | | | 0.00 | 28 | 0 | G | SPACE |
| | | | | | | | | | 0.00 | 30 | 0 | G | SPACE |
| SPACE | | | | | | | | | 0.00 | 32 | 0 | G | SPACE |
| | | | | | | | | | 0.00 | 34 | 0 | G | SPACE |
| | | | | | | | | | 0.00 | 36 | 0 | G | SPACE |
| | | | | | | | | | 0.00 | 38 | 0 | G | SPACE |
| | | | | | | | | | 0.00 | 40 | 0 | G | SPACE |
| | | | | | | | | | 0.00 | 42 | 0 | G | SPACE |
| Total Load - This Panel, KVA | | | | | | | | | | 0.2 | 8.0 | 8.0 | |

| | | | |
|------------------|-------------------------------|--|------|
| Load Type Legend | Circuit Breaker Option Legend | Total Connected Load, KVA | 27.9 |
| R - Receptacle | ST - Street Trip | Total Connected Load, Amps | 31.5 |
| L - Lighting | RL - Breaker Lock | Total Demand Load, KVA | 33.9 |
| M - Motor | CF - CFCT (On) | Total Demand Load, Amps | 43.9 |
| G - General | RY - Relay | Demand Load Includes 125% for continuous loads | |
| | EG - Equipment Ground (On) | | |

PANEL SCHEDULE

| Bus Rating | 200A | Volts | 208/120V | kVAC Rating | 10 | Location | Restroom Building | | | | | | |
|--|-----------|-------|----------|-------------|------------|-------------|-------------------|----------|---------|----------|-----------|------------|--------------------|
| Main Circuit Breaker | 200A | Phase | 3 | Wires | 4 | Name Rating | 3R | Mounting | Surface | | | | |
| Remarks: Parallel from MEP | | | | | | | | | | | | | |
| Provide NEMA 3R enclosure. Provide S&A SPD | | | | | | | | | | | | | |
| Description | Load Type | Panel | Bus | Ckt. No. | Ckt. Lett. | A | B | C | Height | Cut. No. | Ckt. Amp. | Panel Type | Description |
| RE-MALL | R | 201 | 1 | 0.36 | 0.72 | | | | 0.36 | 2 | 20 | G | RE-MAIL VALVE/MATH |
| | | | | | | | | | 0.36 | 4 | 20 | G | RE-MAIL VALVE/MATH |
| RE-MATH | R | 201 | 3 | 0.36 | 0.36 | | | | 0.36 | 6 | 20 | G | RE-MAIL VALVE/MATH |
| RE-UTILITY | R | 201 | 5 | 0.36 | 0.36 | | | | 0.36 | 8 | 20 | M | RE-1 |
| UT-1 | G | 201 | 7 | 1.65 | 1.85 | | | | 0.36 | 10 | 20 | M | RE-2 |
| DOOR OPERATORS | G | 201 | 9 | 0.72 | 0.92 | | | | 0.36 | 12 | 20 | G | PUMP STATION |
| SPACE | | | | | | | | | 0.00 | 14 | 20 | G | SPACE |
| SPACE | | | | | | | | | 0.00 | 16 | 20 | G | SPACE |
| SPACE | | | | | | | | | 0.00 | 18 | 20 | G | SPACE |
| SPACE | | | | | | | | | 0.00 | 20 | 20 | G | SPACE |
| SPACE | | | | | | | | | 0.00 | 22 | 20 | G | SPACE |
| SPACE | | | | | | | | | 0.00 | 24 | 20 | G | SPACE |
| SPACE | | | | | | | | | 0.00 | 26 | 20 | G | SPACE |
| SPACE | | | | | | | | | 0.00 | 28 | 20 | G | SPACE |
| SPACE | | | | | | | | | 0.00 | 30 | 20 | G | SPACE |
| SPACE | | | | | | | | | 0.00 | 32 | 20 | G | SPACE |
| SPACE | | | | | | | | | 0.00 | 34 | 20 | G | SPACE |
| SPACE | | | | | | | | | 0.00 | 36 | 20 | G | SPACE |
| SPACE | | | | | | | | | 0.00 | 38 | 20 | G | SPACE |
| SPACE | | | | | | | | | 0.00 | 40 | 20 | G | SPACE |
| SPACE | | | | | | | | | 0.00 | 42 | 20 | G | SPACE |
| Total Load - This Panel, KVA | | | | | | | | | | 2.6 | 1.5 | 0.7 | |

| | | | |
|------------------|-------------------------------|--|------|
| Load Type Legend | Circuit Breaker Option Legend | Total Connected Load, KVA | 4.8 |
| R - Receptacle | ST - Street Trip | Total Connected Load, Amps | 13.2 |
| L - Lighting | RL - Breaker Lock | Total Demand Load, KVA | 6.0 |
| M - Motor | CF - CFCT (On) | Total Demand Load, Amps | 6.7 |
| G - General | RY - Relay | Demand Load Includes 125% for continuous loads | |
| | EG - Equipment Ground (On) | | |

DESIGN CRITERIA

LOCATION: CHAPEL HILL, NORTH CAROLINA
 BUILDING CODE: 2012 NORTH CAROLINA STATE BUILDING CODE
 (2006 IBC WITH NORTH CAROLINA AMENDMENTS)
 OCCUPANCY CATEGORY II

ROOF LIVE LOADS 20 PSF
 ROOF SNOW LOAD $P_g = 15$ PSF
 $C_e = 0.9$
 $S = 1.30$
 $C_t = 1.2$

ROOF COLLATERAL LOAD 5 PSF
 WIND LOAD $V = 90$ MPH (3 SECOND GUST)
 $I_w = 1.0$
 EXPOSURE C
 DESIGN WIND BASE SHEAR $V_e = 10^4$ $V_e = 4^4$
 INTERNAL PRESSURE COEFFICIENT $+/- 0.18$
 COMPONENT & CLADDING PER ASCE 7 FIGURE 6-3

| ZONE | 10 SQ FT | 25 SQ FT | 50 SQ FT | 100 SQ FT | 500 SQ FT | |
|-------------------|----------|-------------|-------------|-------------|-------------|-------------|
| ROOF | 1 | +11.4/-25.1 | +10.8/-27.4 | +9.6/-26.5 | +9.0/-25.7 | +9.0/-25.7 |
| | 2 | +11.4/-47.1 | +10.8/-41.9 | +9.6/-35.2 | +9.0/-30.5 | +9.0/-30.5 |
| | 3 | +11.4/-71.0 | +10.8/-58.2 | +9.6/-41.4 | +9.0/-35.0 | +9.0/-30.5 |
| ROOF OVER EXPOSED | 2 | -44.8 | -44.1 | -43.1 | -42.0 | -40.5 |
| | 3 | -71.0 | -56.5 | -37.5 | -23.3 | -23.3 |
| WALL | 4 | +26.1/-30.5 | +26.8/-29.3 | +25.1/-27.7 | +23.8/-26.4 | +21.9/-23.3 |
| | 5 | +26.1/-37.8 | +26.8/-35.5 | +25.1/-32.2 | +23.8/-28.7 | +21.9/-23.3 |
| | | | | | | |

- Determine wind loads on components in accordance with the NCIBC and ASCE 7 or with this table. Reference ASCE 7, Figure 6-3.
- Tributary Area = Greater of LW or LA_{0.5}.
- Design for strength using loads from ASCE 7 or from this table. Deflections may be calculated based on 70% of these loads.
- Positive pressures are directed toward the interior. Negative loads are directed away from the interior. Negative roof loads are uplift loads.
- Net uplift is equal to the gross uplift load calculated from ASCE 7 or from this table minus 60% of the roof dead load.

SEISMIC CRITERIA

$I_w = 1.0$
 SPECTRAL RESPONSE VALUES UTILIZING USGS HAZARD DATA AVAILABLE IN 2008
 SPECTRAL RESPONSE ACCELERATIONS $S_{ds} = 0.15g$ $S_{d1} = 0.07g$
 SITE CLASS D
 SPECTRAL RESPONSE COEFFICIENTS $C_{s1} = 0.18g$ $C_{s2} = 0.12g$
 SEISMIC DESIGN CATEGORY B

GENERAL NOTES

- GENERAL**
- DESIGN, FURNISH AND INSTALL TEMPORARY BRACING, BRACING, AND OTHER TEMPORARY SUPPORTS REQUIRED FOR CONSTRUCTING THE STRUCTURES AND TO MAINTAIN THE STABILITY THROUGHOUT ALL PHASES OF CONSTRUCTION UNTIL THE STRUCTURE IS COMPLETED. ALL TEMPORARY SUPPORTS ARE TO BE REMOVED UNLESS NOTED OTHERWISE.
 - USE STRUCTURAL DRAWINGS IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND THE DRAWINGS OF OTHER TRADES.
 - COORDINATE WITH OTHER TRADES THE ACTUAL LOCATIONS AND SIZES OF OPENINGS AND PENETRATIONS REQUIRED BY THEIR WORK.
 - COORDINATE WITH OTHER TRADES THE ACTUAL LOCATIONS AND ELEVATIONS OF BURIED SERVICES PASSING NEAR FOUNDATIONS. UNDERGROUND SERVICES WHICH PASS BENEATH WALL FOOTINGS SHALL HAVE AT LEAST 12" OF CLEARANCE BELOW THE BOTTOM OF THE FOOTING. WHERE THIS IS NOT ACHIEVED, EITHER STEP THE FOOTING DOWN BENEATH THE SERVICE OR INSTALL A STEEL PIPE SLEEVE FOR THE SERVICE TO PASS THROUGH. SLEEVES ARE FURNISHED AND INSTALLED BY THE TRADE INSTALLING THE SERVICE. NO SERVICE IS TO BE INSTALLED BENEATH COLUMN FOOTINGS UNLESS APPROVED BY THE ARCHITECT.
 - COORDINATE WITH OTHER TRADES THE ACTUAL LOCATIONS AND TYPES OF ATTACHMENTS AND ANCHORS THAT ARE REQUIRED BY THE TRADES TO FASTEN THEIR WORK TO THE STRUCTURE.
 - PROVISIONS TO STRUCTURAL COMPONENTS AND INSTALLATION OF PENETRATIONS THROUGH STRUCTURAL MEMBERS ARE NOT PERMITTED WITHOUT PRIOR APPROVAL OF THE ARCHITECT.

FOUNDATIONS & BUILDING SLAB

- THE FOUNDATION DESIGN IS BASED ON RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL SUBSURFACE INVESTIGATION REPORT BY FALCON ENGINEERING DATED DECEMBER 7, 2016.
- ALL FOOTINGS SHALL BE PLACED ON UNDISTURBED SOIL OR COMPACTED ENGINEERED FILL. ALLOWABLE VERTICAL BEARING PRESSURE IS 2,000 PSF.
- ALL FILL SHALL BE PLACED IN 10 TO 15 INCH LIFTS AND SHOULD BE COMPACTED TO AT LEAST 95 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698). THE UPPER 12 INCHES BELOW SLABS AND PAVEMENTS SHALL BE COMPACTED TO 98 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. THE MOISTURE CONTENT AT THE TIME OF COMPACTION SHALL BE BETWEEN OPTIMUM AND 3 PERCENTAGE POINTS NET OF OPTIMUM DUE TO VARIATIONS IN THE MOISTURE CONTENT OF THE SOILS. DRYING OR THE ADDITION OF WATER MAY BE REQUIRED FOR BEST COMPACTION RESULTS.
- ALL FOUNDATIONS BEARING MATERIALS SHALL BE EVALUATED AT THE TIME OF THE FOUNDATION EXCAVATION PRIOR TO PLACING ANY REINFORCING STEEL. A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER SHALL USE A COMBINATION OF HAND AUGER BORINGS AND DYNAMIC CONE PENETROMETER (DCP) TESTING TO DETERMINE THE SUITABILITY OF THE BEARING MATERIALS FOR THE DESIGN BEARING PRESSURE. EXCESSIVELY SOFT, LOOSE, WET, OR OTHERWISE UNSUITABLE BEARING SOILS SHALL BE OVER EXCAVATED TO A DEPTH RECOMMENDED BY THE GEOTECHNICAL ENGINEER. THE EXCAVATED SOILS SHALL BE REPLACED WITH COMPACTED SOIL FILL, COMPACTED CARB. OR LEAN CONCRETE.
- NO FOUNDATIONS SHALL BE PLACED IN WATER OR ON FROZEN GROUND.
- ALL FOOTING EXCAVATIONS ARE TO BE FINISHED BY HAND.
- ALL FINISHED FOUNDATION EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE ARCHITECT OR HIS DESIGNATE BEFORE ANY CONCRETE IS PLACED.
- UNLESS OTHERWISE NOTED, ALL FOOTINGS AND PLATES SHALL BE CENTERED UNDER SUPPORTED MEMBERS.
- DOVELLS FROM FOUNDATIONS INTO PIERS, COLUMNS, BUTTRESSES, OR WALLS ABOVE SHALL BE THE SAME SIZE AND NUMBER AS VERTICAL REINFORCEMENT IN PIERS, COLUMNS, BUTTRESSES, OR WALLS ABOVE, EXCEPT AS OTHERWISE SHOWN ON THE DRAWINGS.
- CONTRACTOR SHALL PROVIDE CONTINUOUS CONTROL OF SURFACE AND UNDERGROUND WATER AS REQUIRED DURING CONSTRUCTION SUCH THAT THE WORK IS DONE IN THE DRY.

CAST-IN-PLACE CONCRETE

- MATERIALS
 - PORTLAND CEMENT: ASTM C150, TYPE I.
 - FLY ASH: ASTM A618, CLASS C.
 - REINFORCING STEEL: ASTM A615 GRADE 60.
 - WELDED WIRE FABRIC: ASTM A65, FLAT SHEETS.
 - UNDER-SLAB DRAINAGE FILL: 4" WASHED CRUSHED STONE, MAXIMUM AGGREGATE SIZE OF 7/8".
 - VAPOR BARRIER: ASTM E1745, CLASS B, FIVE-PLY, NYLON OR POLYESTER CHORD, 10 MILS THICKNESS.
 - WATERSTOP: SELF EXPANDING.
 - WATERPROOFING ADHESIVE, HYDROPHILIC CRYSTALLINE TYPE.
- CONCRETE MIXES
 - FOOTINGS AND MAT SLAB FOUNDATION: 3000 PSI NY.
 - SLAB-ON-GRADE, UNLESS NOTED: 3000 PSI NY.
 - GRANDSTAND PIERS: 4000 PSI NY.
 - RESTROOM WALLS: 4200 PSI NY ENRICHED WITH WATERPROOFING ADMIXTURE.
- PERFORM CONCRETE WORK IN ACCORDANCE WITH ACI 318 AND ACI 301.
 - PROVIDE CONCRETE COVER AS FOLLOWS:
 - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3".
 - CONCRETE EXPOSED TO EARTH OR WEATHER:
 - 4" OR SMALLER: 1/2".
 - 4" OR LARGER: 2".
 - CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
 - SLABS, WALLS, JOISTS: 1/2".
 - BEAMS, COLUMNS: 1/2" TO PRIMARY REINFORCEMENT, TIES, STIRRUPS, OR SPIRALS.
 - PROVIDE CONTINUOUS REINFORCEMENT WHEREVER POSSIBLE. SPICE DIA. Y AS SHOWN OR APPROVED. MINIMUM LAP LENGTHS, EXPRESSED IN NUMBER OF BAR DIAMETERS, SHALL BE AS FOLLOWS:

| BAR SIZE | NORMAL WT. CONCRETE STRENGTH, f _c (psi) |
|---------------|--|
| | 3000 |
| | 4000 |
| | 5000 |
| #6 OR SMALLER | 57 DIA. |
| | 49 DIA. |
| | 44 DIA. |
| #7 OR LARGER | 71 DIA. |
| | 62 DIA. |
| | 55 DIA. |

| BAR SIZE | NORMAL WT. CONCRETE STRENGTH, f _c (psi) |
|---------------|--|
| | 3000 |
| | 4000 |
| | 5000 |
| #6 OR SMALLER | 57 DIA. |
| | 49 DIA. |
| | 44 DIA. |
| #7 OR LARGER | 71 DIA. |
| | 62 DIA. |
| | 55 DIA. |

- MULTIPLY THE ABOVE LENGTHS BY 1.3 FOR TOP BARS AND BY 1.3 FOR LIGHT WEIGHT CONCRETE. WHERE BARS OF UNEQUAL DIAMETER ARE LAPPED, USE THE LAP LENGTH OF THE SMALLER BAR. THE ABOVE LENGTHS ARE CLASS "B" TENSION LAP SPICES BASED ON GRADES 60 BARS WITH A COVER OF AT LEAST 1.84X DIA. AND SPACING AT LEAST 3 BAR DIA. LAP LENGTHS SHALL BE INCREASED IN ACCORDANCE WITH ACI 318 IF COVER IS LESS THAN 1.84X DIA. OR SPACING IS LESS THAN 3 BAR DIA.
- ACCURATELY INSTALL AND PROPERLY SECURE ANCHORS, BEARING PLATES, SLEEVES, AND OTHER EMBEDDED ITEMS.
- ACCURATELY LOCATE AND BLOCK OUT OPENINGS AND PENETRATIONS.
- COORDINATE WITH OTHER TRADES FOR ANCHORS, EMBEDDED ITEMS, SLEEVES, AND PENETRATIONS REQUIRED AND/OR FURNISHED BY THE OTHER TRADES.
- PROVIDE CONTRACTION JOINTS IN SLABS-ON-GRADE WHERE INDICATED ON THE PLANS. PROVIDE A JOINT DEPTH EQUAL TO AT LEAST 1/2 OF THE SLAB THICKNESS.
- INSTALL AND SEAL VAPOR BARRIER IN ACCORDANCE WITH ASTM E1643 AND MANUFACTURER'S INSTRUCTIONS. LAP JOINTS 6" AND SEAL WITH MANUFACTURER'S RECOMMENDED TAPE.

- FLOOR FINISHES:
 - FLOAT FINISH: ALL SLABS ON GRADE.
 - TRACK FINISH: TRACK SLAB ON GRADE TO RECEIVE SYNTHETIC SURFACE.
 - TROWEL AND FINE GROOM FINISH: TEAM SHELTER AND STORAGE SHELTER SLABS ON GRADE.
 - BROOM FINISH: UTILITY PLATFORM AND COACHES TOWER SLABS ON GRADE.
- FLOOR FINISH TOLERANCES:
 - TRACK SLAB LEVELNESS: PER NCA REGULATIONS.
 - 6" MIN MEASURED ALONG A 3" STRAIGHT EDGE
 - 3" MIN MEASURED ALONG A 1" STRAIGHT EDGE
 - FINISH ALL SLOPED SURFACES WITH POSITIVE SLOPE AS INDICATED. PERFORM WATER TEST AND CORRECT ALL AREAS SUBJECT TO PONDING BY FILLING AND/OR GRINDING.
- NO CONDUIT OR PIPE MAY BE RUN WITHIN STRUCTURAL CONCRETE MEMBERS EXCEPT WHERE INDICATED.

STRUCTURAL MASONRY

- ALL MASONRY WORK SHALL CONFORM TO THE 'BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES' (AC308-08) AND 'SPECIFICATIONS FOR MASONRY STRUCTURES' (AC308-14-08).
- MATERIALS
 - CONCRETE MASONRY UNITS: ASTM C90, 1900 PSI MIN. UNIT STRENGTH.
 - MORTAR: ASTM C270, PROPORTION SPECIFICATION, TYPE S.
 - GRID: ASTM C973, SLUMP = 8" TO 11". COMPRESSIVE STRENGTH $f_c = 3000$ PSI.
 - MASONRY CM = 1500 PSI.
 - REINFORCING STEEL: ASTM A615, GRADE 60. $F_y = 24$ OR 20,000 PSI.
- LAP REINFORCING AS FOLLOWS, UNLESS NOTED OTHERWISE:

| | | | |
|----|------|----|------|
| #3 | 1-5" | #6 | 4-0" |
| #4 | 2-0" | #7 | 5-0" |
| #5 | 2-6" | #8 | 6-0" |
- INSTALL REINFORCING IN THE CENTER OF CELLS UNLESS INDICATED OTHERWISE.
- ADVERTENTLY SECURE REINFORCING TO PREVENT MOVEMENT PRIOR TO GROUT FILL.
- GROUT ALL CELLS OF MASONRY UNITS INSTALLED BELOW FINAL GRADE.
- ABOVE GRADE, GROUT ONLY REINFORCED CELLS UNLESS INDICATED OTHERWISE.

WOOD FRAMING

- MATERIALS
 - DIMENSIONAL LUMBER: #2 SYP 10% M.C. PRESERVE/PRESERVATIVE TREATED.
 - PLYWOOD: CDX PRESERVE/PRESERVATIVE TREATED.
 - STEEL CONNECTORS: DRG GALVANIZED FOR EXPOSED CONNECTIONS; 2MAX FOR EMBEDDED CONNECTIONS OR APPROVED EQUAL.
 - SOLID SAWN WOOD FRAMING SHALL CONFORM TO THE SPECIFICATIONS AS LISTED IN THE NATIONAL FOREST PRODUCTS ASSOCIATION 'NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION' LATEST EDITION (NDS). PROVIDE DRESSED LUMBER, S4S, UNLESS OTHERWISE INDICATED. WITH A MAXIMUM MOISTURE CONTENT FOR DIMENSION LUMBER OF 19 PERCENT FOR 2-INCH NOMINAL THICKNESS OR LESS, 19 PERCENT FOR MORE THAN 2-INCH NOMINAL THICKNESS. TIMBER FRAMING LARGER THAN 2X6 NOMINAL SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 20 PERCENT. THE FRAMING SHALL BE OF THE SPECIES AND GRADE AS LISTED BELOW UNLESS OTHERWISE NOTED ON THE FRAMING PLANS:
 - JOIST, RAFTERS, AND WOOD ORDERS AND BEAMS: SYP No. 2
 - TIMBER FRAMING LARGER THAN 2X6 NOMINAL: SYP No. 2
- LUMBER IN CONTACT WITH CONCRETE, MASONRY, GARTH OR FRAMING MEMBERS THAT ARE LESS THAN 18 INCHES ABOVE THE GROUND IN CRAWL SPACES OR UNEXCAVATED AREAS, AND ALL OTHER EXPOSED TIMBER SHALL BE PRESERVE TREATED IN ACCORDANCE WITH AWWA STANDARD C-2, CONTAINING NO ARSENIC OR CHROMIUM.
- FRAMING SHALL COMPLY WITH AFWA'S 'DETAILS FOR CONVENTIONAL WOOD FRAME CONSTRUCTION' UNLESS OTHERWISE INDICATED. STRUCTURAL MEMBERS SHALL NOT BE SPliced BETWEEN SUPPORTS, UNLESS OTHERWISE INDICATED.
- PLYWOOD SHALL CONFORM TO THE LATEST EDITION OF U.S. PRODUCT STANDARD PS-1.
- NAILS SHALL BE STRONGHOLD, GALVANIZED COMMON NAILS. SELECT FASTENERS OF SIZE THAT WILL NOT FULLY PENETRATE MEMBERS WHERE OPPOSITE SIDE WILL BE EXPOSED TO VIEW OR WILL RECEIVE FINISH MATERIAL. MAKE TIGHT CONNECTIONS BETWEEN MEMBERS. INSTALL FASTENERS WITHOUT SPLITTING WOOD; DO NOT COUNTERSINK NAIL HEADS, UNLESS OTHERWISE INDICATED.
- FRAMING CONNECTIONS SHALL BE EMPSON COMPANY OR EQUAL OF THE CATALOG DESIGNATIONS INDICATED. INSTALL MANUFACTURER'S STANDARD NAILS IN ALL HOLES PROVIDED UNLESS OTHERWISE NOTED.
- BOLT HOLES IN WOOD SHALL BE DRILLED 1/8" MAXIMUM OVERSIZE. HOLES FOR SCREWS AND LAG SCREWS SHALL BE FIRST BORED FOR THE SAME DEPTH AND DIAMETER OF THE SHANK. THEN THE REMAINDER OCCUPIED BY THE THREADED PORTION SHALL BE BORED NOT LARGER IN DIAMETER THAN THE ROOF OF THE TREAD. ALL SCREWS SHALL BE SCREWED, NOT DRIVEN INTO PLACE. PROVIDE WASHERS UNDER ALL NUTS AND HEADS OF BOLTS AND LAG SCREWS. WASHERS SHALL BE EITHER ROUND MALLEABLE IRON OR SQUARE CUT STEEL. WASHERS 1/2" THICK x 3/4" FASTENER DIAMETER.
- ALL TIMBER FRAMING SHALL BE ACCURATELY CUT, NOTCHED, OR DAPPED AS INDICATED. NO CHECKOUT IS PERMITTED FOR NOTCHES OR DAPS. MEMBERS SHALL FIT TIGHT AND TRUE. EXAMINE MEMBERS FOR DETRIMENTAL DAMAGE BEFORE INSTALLATION, AND AVOID NATURAL DEFECTS AT CONNECTIONS WHERE STEEL PLATES OCCUR. THEY SHALL BE USED AS THE TEMPLATE FOR BORING HOLES.
- DESIGN FABRICATION AND CONSTRUCTION SHALL CONFORM TO THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION' CURRENT EDITION AS RECOMMENDED BY THE NATIONAL LUMBER MANUFACTURERS ASSOCIATION.

STRUCTURAL ABBREVIATIONS

- SYP SOUTHERN YELLOW PINE
- P.T. PRESERVE/TREATED
- HDD HOT-DIPPED GALVANIZED

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FINLEY FIELDS NORTH
 PHASE 2 - CONSTRUCTION DRAWINGS
 THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
 CHAPEL HILL, NORTH CAROLINA

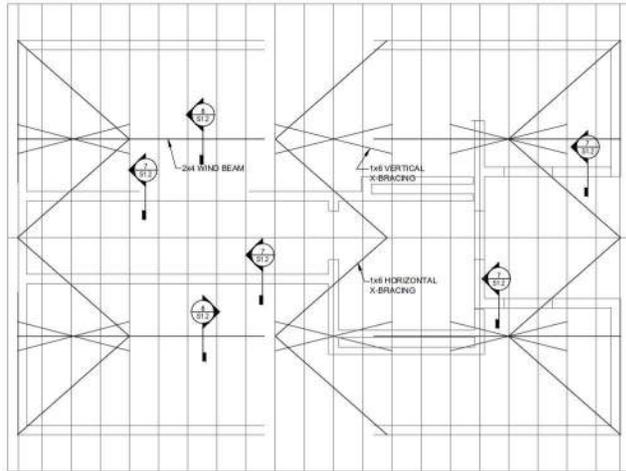
RESTROOM BUILDING STRUCTURAL NOTES

FINLEY FIELDS NORTH
 PHASE 2 - CONSTRUCTION DRAWINGS
 THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
 CHAPEL HILL, NORTH CAROLINA

RESTROOM BUILDING STRUCTURAL NOTES

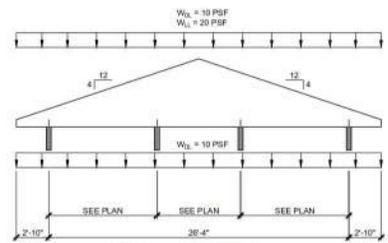
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 CHECKED BY: RS
 DRAWN BY: JH
 SCALE: AS INDICATED
 DATE: 08-13-2016
 SHEET NO: **SO.1**

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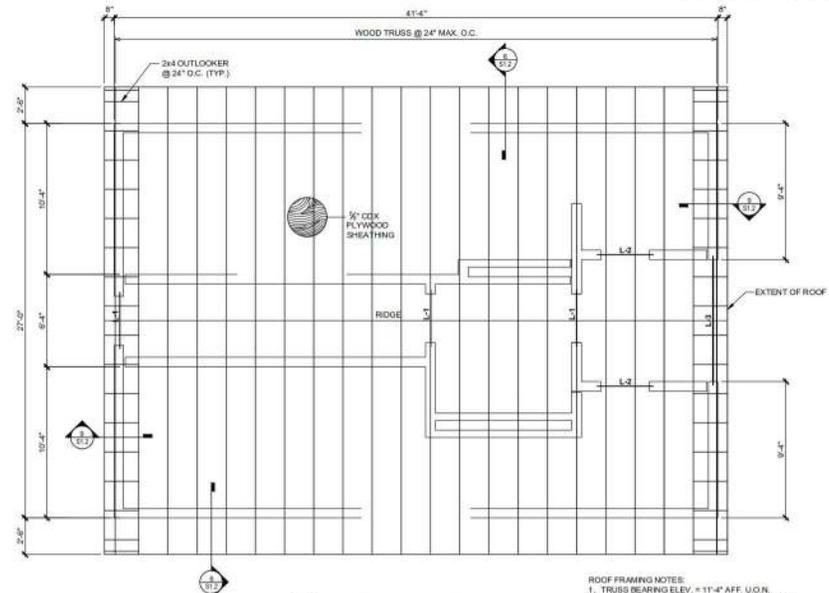
3
S1.1
BOTTOM CHORD BRACING PLAN
1/2" = 1'-0"

- BOTTOM CHORD BRACING NOTES:**
1. --- DENOTES BOTTOM CHORD HORIZONTAL BRACING (WIND BEAM). MEMBER SIZE IS 2x4. SEE 405.2.
 2. --- DENOTES BOTTOM CHORD HORIZONTAL DIAGONAL BRACING. MEMBER SIZE IS 1x6 U.O.N.
 3. --- DENOTES VERTICAL DIAGONAL BRACING IN PLANE OF WEB MEMBER. MEMBER SIZE IS 1x6 U.O.N. BRACING SHALL BE SLOPED AT 45°.
 4. LATERAL BRACING TO REDUCE BUCKLING LENGTH OF INDIVIDUAL TRUSS COMPRESSION MEMBERS SHALL BE SPECIFIED & DESIGNED BY TRUSS MANUFACTURER AND SUPPLIED BY THE CONTRACTOR.



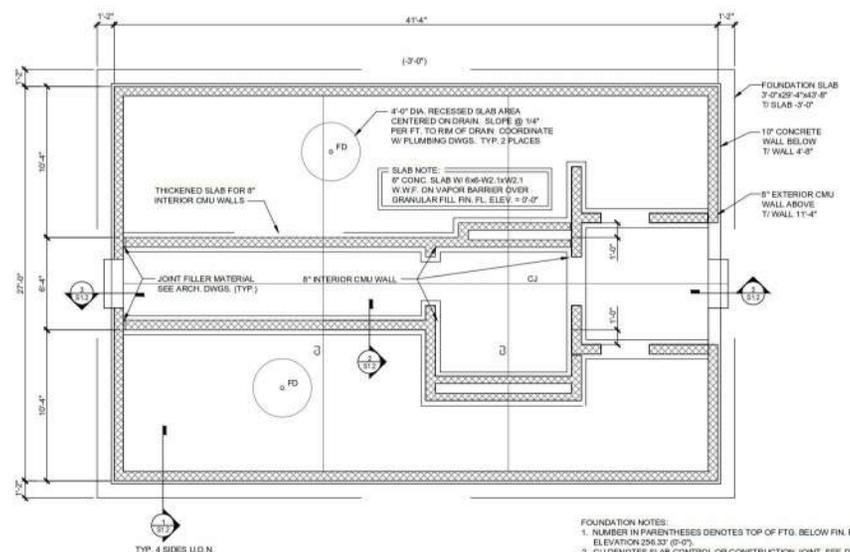
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S1.1
TRUSS DIAGRAM
N.T.S.

- TRUSS NOTES:**
1. ALL TRUSS MEMBERS SHALL NOT BE LESS THAN 2x4.
 2. ALL BRACING MEMBERS SHALL BE NAILED AT EACH TRUSS MEMBER WITH NO LESS THAN (2) 16d NAILS.
 3. ALL CONNECTIONS SHALL BE MADE WITH APPROVED FRAMING ANCHORS.
 4. TRUSS CONNECTION PLATES SHALL BE DESIGNED AND FURNISHED BY ACCORDANCE WITH THE "TRUSS PLATE INSTITUTE".
 5. ALL TRUSSES SHALL BE BRACED DURING ERECTION IN ACCORDANCE WITH THE "COMMENTARY AND RECOMMENDATIONS" 8047-76 OF THE TRUSS PLATE INSTITUTE, INC.
 6. ALL PROVISIONS OF THE NORTH CAROLINA STATE BUILDING CODE, THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION AND STANDARDS AND RECOMMENDATIONS OF THE TRUSS PLATE INSTITUTE SHALL BE ADHERED TO.
 7. COMPLETE DESIGN CALCULATIONS, SEALED BY A NORTH CAROLINA PROFESSIONAL ENGINEER AND ERECTION PLAN SHALL BE PROVIDED TO THE CONTRACTOR BY THE TRUSS SUPPLIER.
 8. ALL TRUSSES SHALL BE DESIGNED FOR THE WIND LOADINGS AS PRESCRIBED IN THE NORTH CAROLINA STATE BUILDING CODE. 24.4.6.5(4) TO (7) AND 24.4.6.5(8) TO (9).



2
S1.1
RESTROOM ROOF FRAMING PLAN
1/2" = 1'-0"

- ROOF FRAMING NOTES:**
1. TRUSS BEARING ELEV. = 11'-4" AFF. U.O.N.
 2. SEE 405.1 FOR PREFABRICATED WOOD TRUSS LOAD DIAGRAMS AND NOTES.
 3. SEE 405.1 FOR BRACING ON TOP OF TRUSS BOTTOM CHORD.
 4. L-1 DENOTES LUNEL. SEE 405.2 FOR SCHEDULE.



1
S1.1
RESTROOM FOUNDATION PLAN
1/2" = 1'-0"

- FOUNDATION NOTES:**
1. NUMBER IN PARENTHESES DENOTES TOP OF FTG. BELOW FIN. FLOOR ELEVATION 256.33' (P-0').
 2. CJ DENOTES SLAB CONTROL OR CONSTRUCTION JOINT. SEE DETAIL 405.2.
 3. PROVIDE #4 VERT. BAR IN JAMES OF ALL EXTERIOR DOORS AND WINDOWS U.O.N. IN ADDITION TO REINF. SHOWN ON THE DRAWINGS. PROVIDE #6 VERT. #4. SIZE OF EXPANSION JOINTS AND CONTROL JOINTS IN CMU WALLS. SEE ARCH. FOR JOINT LOCATIONS.
 4. SEE 185.2 FOR CMU WALL REINFORCING REQUIREMENTS.
 5. REINFORCE INTERIOR CMU WALLS W/ #4 @ 48" VERT.
 6. POUR CONCRETE WALL WITH NO CONTROL JOINTS. SEE 501.2 FOR OPTIONAL CONSTRUCTION JOINT DETAIL.

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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THE COLLEGE OF ARCHITECTURE
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919.976.5200
www.collegeofarchitecture.com

MCADAMS

UNIVERSITY OF NORTH CAROLINA
FACILITIES PLANNING & DESIGN
103 AIRPORT DRIVE
CHAPEL HILL, NC 27516

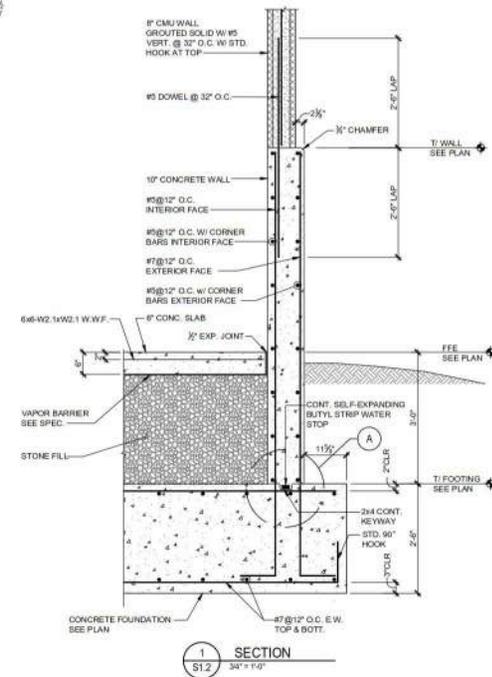
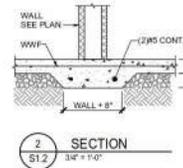
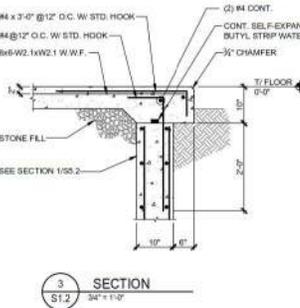
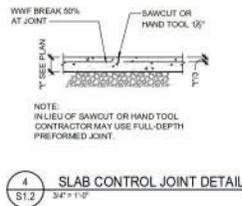
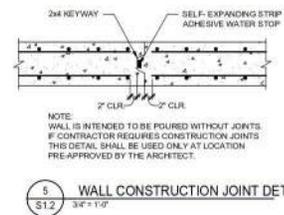
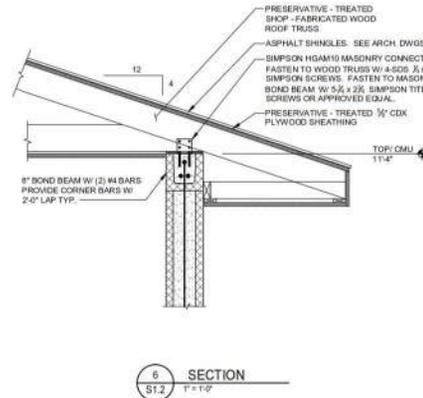
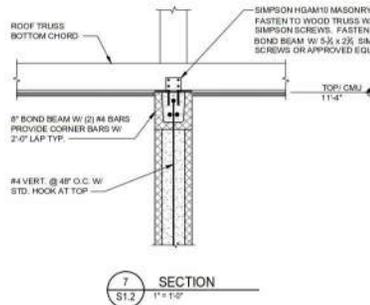
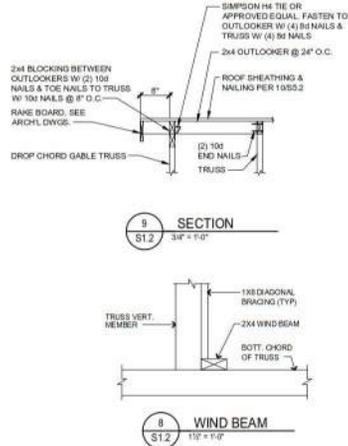
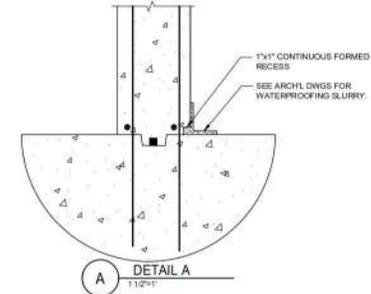
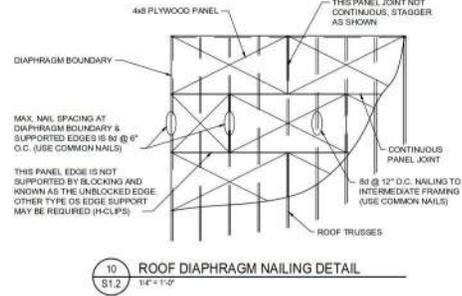
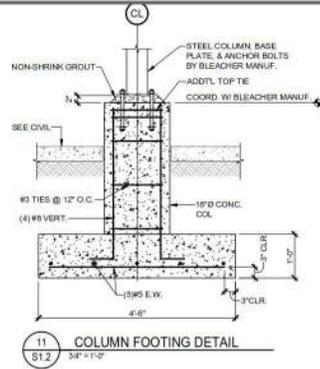
FINLEY FIELDS NORTH
PHASE 2 - CONSTRUCTION DRAWINGS
THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
CHAPEL HILL, NORTH CAROLINA

RESTROOM BLDG FOUNDATION AND FRAMING PLANS

PROJECT NO. ED7-16020
PLANNER
CHECKED BY: RS
DRAFT BY: JU
SCALE: AS INDICATED
DATE: 08-15-2018
SHEET NO. S1.1

MCADAMS

| LOAD BEARING / EXTERIOR LINTEL SCHEDULE | | | | | | | |
|---|-----------|---------|------|--------|---------|------------------|---------|
| MARK | WALL TYPE | LINTEL | SIZE | REF. | SECTION | BEARING E.A. END | REMARKS |
| L-1 | 1" CMU | U-BLOCK | 8x8 | (1) #4 | | 1' | |
| L-2 | 1" CMU | U-BLOCK | 8x16 | (2) #4 | | 1' | |
| L-3 | 1" CMU | U-BLOCK | 8x24 | (3) #4 | | 1' | |



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919.853.5597 919.853.3529 fax
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LHC STRUCTURAL ENGINEERS
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919.853.5597 919.853.3529 fax
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Chapel Hill, NC 27517
(919) 991-1379
www.mcadams.com

FINLEY FIELDS NORTH
PHASE 2 - CONSTRUCTION DRAWINGS
THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
CHAPEL HILL, NORTH CAROLINA

RESTROOM BUILDING SECTIONS AND DETAILS

OWNER: UNIVERSITY OF NORTH CAROLINA FACILITIES PLANNING & DESIGN
1105 AIRPORT DRIVE
CHAPEL HILL, NC 27599

PROJECT NO. EDF-16220
REVISION: RS
DATE: 08-13-2016
SCALE: AS INDICATED
SHEET NO. S1.2

McADAMS

SCO #17-16917-01A

AEI Affiliated Engineers
 1000 North Main Street
 Suite 200
 Fayetteville, NC 27804
 (714) 841-4538
 www.aei.com

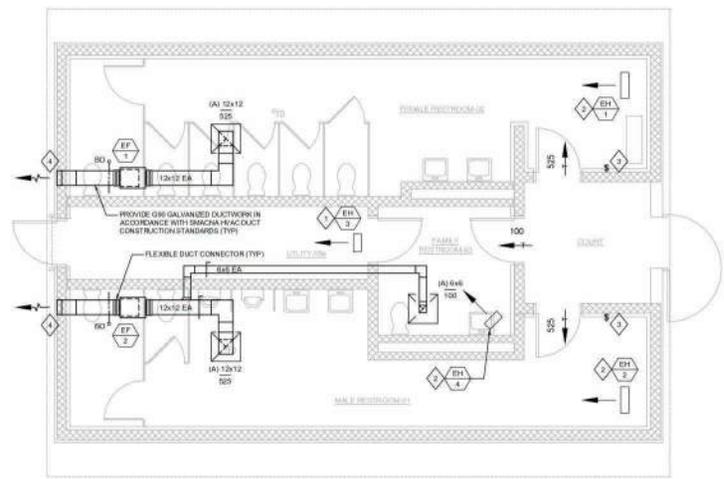
FITFIELDS
 (The David Smith)
 1000 North Main Street
 Suite 200
 Fayetteville, NC 27804
 (714) 841-4538
 www.fitfields.com

THE SURRILL MCADAMS COMPANY
 2805 McAdams Parkway
 Durham, North Carolina 27718
 (919) 720-8600 | www.mcadams.com



- GENERAL NOTES**
- REFER TO SYMBOL AND ABBREVIATION SHEET FOR ALL GENERAL NOTES.
 - DUCT SIZE TO DIFFUSERS, REGISTERS, AND GRILLES SHALL BE SAME AS HOOK-UP SIZE UNLESS NOTED OR DETAILED OTHERWISE.
 - COORDINATE DIFFUSER, REGISTER, AND GRILLE LOCATION WITH REFLECTED CEILING PLAN.

- SHEET KEYNOTES**
- ◇ MOUNT UNIT HEATER ABOVE DOOR. MOUNTING BRACKET TO MAINTAIN 1'-0" REQUIRED CLEARANCE BETWEEN UNIT REFRIG. AND ADJACENT WALL.
 - ◇ MOUNTING BRACKET TO MAINTAIN 1'-0" REQUIRED CLEARANCE BETWEEN UNIT AND ADJACENT WALL AND 1'-0" CLEARANCE BETWEEN UNIT AND CEILING.
 - ◇ INTERLOCK FAN WITH LIGHT SWITCH.
 - ◇ TRANSITION TO STATIONARY COLLAR WITH MINIMUM 9.80 SQ. FT. OF FREE AREA.



1 MECHANICAL BATHROOM ENLARGED PLAN
 SCALE: 1/4" = 1'-0"

REVISIONS:

| | |
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| | |
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| | |

OWNER:
 THE UNIVERSITY FOUNDATION, INC.
 400 UNIVERSITY AVENUE
 CHAPEL HILL, NORTH CAROLINA 27609
 ARCHITECT:
 THE SURRILL MCADAMS COMPANY
 2805 MCADAMS PARKWAY
 DURHAM, NORTH CAROLINA 27718
 813 SARTWELL STREET, SUITE 100
 RAJASOUL, NORTH CAROLINA 27605

FINLEY FIELDS NORTH
 PHASE 1 - CONSTRUCTION DRAWINGS
 THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
 CHAPEL HILL, NORTH CAROLINA
 MECHANICAL ENLARGED PLAN

| | |
|------------|--------------|
| SHEET NO. | EDF-16020 |
| PLANNED | |
| DRAWN BY | RTM |
| CHECKED BY | ACA |
| SCALE | RTS |
| DATE | 8-13-2016 |
| SHEET NO. | M1.10 |



FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

As Issued 12/16/16 10:20:00 AM US Drawings/Document/17-16917-01A.dwg, 8/17/2016 3:18:05 PM, AutoCAD

BUILDING FANS
23 MAR

| MARK | FAN LOCATION | CFM | TSP (V/G) | FAN TYPE | DRIVE | WHEEL TYPE | MFR. QTY. | MAX. FAN RPM | FAN DISCHARGE AND ROTATION | DAMPEN | FITTED LOCK | DROTOR MAX. RPM | HR | PH | VOLT | VFD | BASIS OF DESIGN | | REMARKS |
|------|--------------|-----|-----------|-------------|-------|------------|-----------|--------------|----------------------------|-----------|-------------|-----------------|-----|----|------|-----|-----------------|--------|---------|
| | | | | | | | | | | | | | | | | | MANUFACTURER | MODEL | |
| EF-1 | WOMENS | 925 | 0.45 | CENTRIFUGAL | BELT | BI | 11 | 1,330 | IN LINE | BACKDRAFT | LIGHT | 0.2 | 1/4 | 1 | 115 | NO | GREEN-ECK | BSC-90 | (1)(2) |
| EF-2 | MENS | 925 | 0.45 | CENTRIFUGAL | BELT | BI | 11 | 1,445 | IN LINE | BACKDRAFT | LIGHT | 0.2 | 1/4 | 1 | 115 | NO | GREEN-ECK | BSC-90 | (1)(2) |

REMARKS:
 (1) PROVIDE ACCESS PANEL, MOTOR COVER, INSULATED HOUSING, AND INLET AND DISCHARGE DUCT COLLARS AS PART OF FAN ASSEMBLY.
 (2) MOTOR TO BE MOUNTED ON THE BOTTOM OF THE UNIT.

ELECTRIC HEATING EQUIPMENT
23 MAR

| MARK | LOCATION | MOUNTING | CAPACITY (KW) | VOLT | PH | STANDBY POWER | THERMOSTAT | BASIS OF DESIGN | | REMARKS |
|------|----------|----------------------|---------------|------|----|---------------|--------------|-----------------|-------|---------|
| | | | | | | | | MANUFACTURER | MODEL | |
| EH-1 | WOMENS | HORIZONTAL DISCHARGE | 10 | 480 | 3 | NO | UNIT MOUNTED | TRANE | UHEC | (1) (2) |
| EH-2 | MENS | HORIZONTAL DISCHARGE | 10 | 480 | 3 | NO | UNIT MOUNTED | TRANE | UHEC | (1) (2) |
| EH-3 | UTILITY | HORIZONTAL DISCHARGE | 3 | 480 | 3 | NO | UNIT MOUNTED | TRANE | UHEC | (1) (2) |
| EH-4 | FAMILY | HORIZONTAL DISCHARGE | 3 | 480 | 3 | NO | UNIT MOUNTED | TRANE | UHEC | (1) (2) |

REMARKS:
 (1) PROVIDE SUPPLEMENTARY WALL BRACKET AND ALL MISCELLANEOUS SUPPORTS.
 (2) PROVIDE UNIT MOUNTED THERMOSTAT.

REGISTERS AND GRILLES
23 MAR

| MARK | SERVICE | FACE SIZE (IN) | FACE TYPE | MAXIMUM S.P. LOSS (IN H ₂ O) | FINISH | MATERIAL | BASIS OF DESIGN | | REMARKS |
|------|---------|----------------|------------|---|--------|----------|-----------------|-------|---------|
| | | | | | | | MANUFACTURER | MODEL | |
| A | EA | 24x24 | PERFORATED | 0.15 | BWE | ALUMINUM | TITUS | FPF | |

REMARKS:

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 Raleigh, NC 27615
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 www.fitfields.com

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 www.aeaffiliated.com

THE SURR R. MCADAMS CONSULTANTS
 2805 Hedges Parkway
 Durham, North Carolina 27718
 (919) 286-6664
 www.mcadams.com



REVISIONS:

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| | |

OWNER:
 THE CAROLINA PAPERWORK, INC.
 400 W. Hargett Street, Suite 200
 Chapel Hill, North Carolina 27514
 919-967-0000
 813 BANT MARY STREET, SUITE 108
 RAJSHIL NORTH CAROLINA 27608

FINLEY FIELDS NORTH
 PHASE 1 - CONSTRUCTION DRAWINGS
 THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
 CHAPEL HILL, NORTH CAROLINA
 MECHANICAL DETAILS AND SCHEDULES

PROJECT NO. ED-160220

DESIGNED BY: HTS

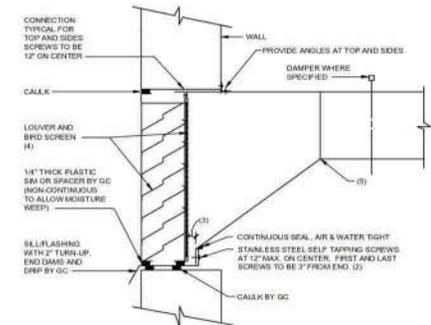
CHECKED BY: AGA

SCALE: HTS

DATE: 8-13-2016

SHEET NO. **M1.20**

McADAMS



- NOTES:
- PLENUM CONNECTION TO LOUVER IS SIMILAR.
 - BOTTOM OF DUCT TO BE COMPLETELY OVERLAPPED WITH TURN UP. DRILL TURN UP PRIOR TO INSTALLING SELF TAPPING SCREWS TO ENSURE DUCT IS DRAWN TIGHT TO TURN UP.
 - MINIMUM 1/2\"/>

1 DUCT CONNECTION TO LOUVER
 SCALE: NONE

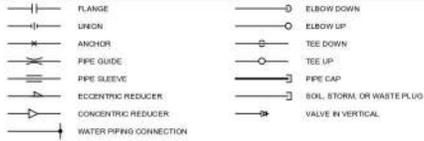
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PIPING SYMBOLS AND ABBREVIATIONS

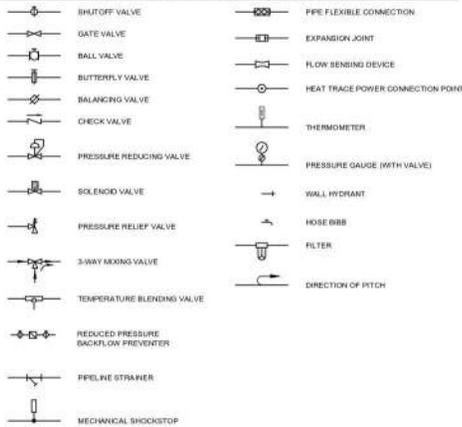
NOTE: SYMBOLS AND ABBREVIATIONS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL SYMBOLS MAY BE INDICATED IN THE CONTRACT DOCUMENTS.

SCO #17-16917-01B

PIPE FITTINGS



PIPE VALVES AND SPECIALTIES



DRAINS AND CLEANOUTS



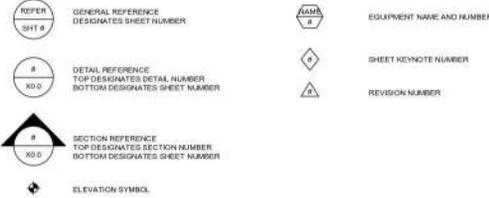
FIXTURE INSTALLATION

| FIXTURE | BARRIER FREE DESIGN | NON-BARRIER FREE |
|--------------|---|-------------------------|
| WATER CLOSET | FLOOR TO RIM 17" | FLOOR TO RIM 15" |
| URINAL | FLOOR TO RIM 17" MIN. ONE PER ROOM | FLOOR TO RIM 24" |
| LAVATORY | FLOOR TO RIM 34" MAX. FLOOR TO UNDER APPROX 20" | FLOOR TO RIM 31" |
| HOSE BIB | N/A | FLOOR TO CENTERLINE 12" |
| WALL HYDRANT | N/A | FLOOR TO CENTERLINE 18" |

PIPING SYSTEM LABELS

| NEW | EXISTING | DESCRIPTION | NEW | EXISTING | DESCRIPTION |
|-----|----------|---------------------------|--------|----------|--|
| —X— | —X— | DOMESTIC COLD WATER | —X—SAN | —X— | WASTE OR SOIL LINE |
| —X— | —X— | DOMESTIC HOT WATER | —X—SD | —X—SD | SUBSOIL DRAIN LINE |
| —X— | —X— | DOMESTIC HOT WATER RETURN | —X—S | —X—S | STORM |
| —X— | —X— | DOMESTIC HOT WATER RETURN | —X—OD | —X—OD | OVERFLOW DRAIN LINE |
| —X— | —X— | DOMESTIC HOT WATER RETURN | —FM | —FM | FORCE MAIN |
| —X— | —X— | DOMESTIC HOT WATER RETURN | —IW | —IW | INDIRECT WASTE |
| —X— | —X— | DOMESTIC HOT WATER RETURN | —X— | —X— | UNDERFLOOR FOR WASTE OR SOIL SUBSOIL, STORM & FORCE MAIN |
| —X— | —X— | DOMESTIC HOT WATER RETURN | —X—V | —X—V | VENT |

REFERENCE SYMBOLS



| PIPE SIZE | N.P.T. | FIXTURE UNITS |
|-----------|--------|---------------|
| A | 1/2" | 5-11 |
| B | 3/4" | 12-30 |
| C | 1" | 33-40 |
| D | 1 1/4" | 81-113 |
| E | 1 1/2" | 114-154 |
| F | 2" | 155-230 |

ABBREVIATIONS

| | | | |
|--------|---|-------|--|
| AB | - AIR BIBB | L | - LAVATORY/LENGTH |
| ACC | - AIR COMPRESSOR | LA | - LAVATORY AIR |
| AD | - ACCESS | LAV | - LAVATORY |
| AD | - AREA DRAIN | LBS | - POUNDS |
| ADR | - ACID DILUTION BASIN | LCW | - LAB COLD WATER |
| ADJ | - ADJUSTABLE | LHW | - LAB HOT WATER |
| AF | - ABOVE FINISHED FLOOR | LHWR | - LAB HOT WATER RETURN |
| AG | - AIR GUN | LIGT | - LIGHTING |
| AKU | - AIR KINKING UNIT | LV | - LAB VENT |
| ALT | - ALTERNATE | LVR | - LAB VENT THRU ROOF |
| AP | - ACCESS PANEL | LW | - LAB WASTE |
| APPROX | - APPROXIMATE | MA | - MEDICAL AIR |
| ARCH | - ARCHITECTURAL | MAI | - MEDICAL AIR INTAKE |
| ASSY | - ASSEMBLY | MAC | - MEDICAL AIR COMPRESSOR |
| AV | - AIR VENT | MAP | - MASTER ALARM PANEL |
| AAV | - AIR ADMITTANCE VALVE | MAX | - MAXIMUM |
| BEJ | - BUILDING EXPANSION JOINT | MB | - MOP BASIN |
| BF | - BACKFLOW | MCC | - MEDICAL CEILING COLUMN |
| BFP | - BACKFLOW PREVENTER | MEZZ | - MEZZANINE |
| BLDS | - BUILDING | MFR | - MANUFACTURER |
| BSF | - BOTTOM OF PIPE ELEVATION | MS | - MEDICAL GAS OUTLET |
| BOT | - BOTTOM | MGA | - MEDICAL GAS ALARM PANEL |
| BTU | - BRITISH THERMAL UNIT | MH | - MANNING |
| BTUH | - BRITISH THERMAL UNITS PER HOUR | MN | - MINIMUM |
| BTWH | - BETWEEN | MISC | - MISCELLANEOUS |
| BVV | - BACKWATER VALVE | MTD | - MOUNTED |
| CFI | - CONTRACTOR FURNISHED CONTRACTOR INSTALLED | MTG | - MOUNTING |
| CFM | - CUBIC FEET PER MINUTE | MV | - MEDICAL VACUUM/IRKING VALVE |
| CFH | - CUBIC FEET PER HOUR | MVE | - MEDICAL VACUUM EXHAUST |
| CLC | - CEMENT | MVP | - MEDICAL VACUUM PUMP |
| CLG | - CEMENT MASONRY UNIT | NG | - NATURAL GAS |
| CO | - CLEANOUT | N2 | - NITROGEN |
| CONN | - CONNECTION/CONNECT | N2O | - NITROUS OXIDE |
| CONTR | - CONTRACTOR | NC | - NORMALLY CLOSED |
| CORR | - CORRIDOR | NO | - NOT IN CONTRACT |
| CS | - CLINICAL SWANCKOOL SOFT WATER | NO | - NORMALLY OPEN |
| CTR | - CENTER | NCM | - NOMINAL |
| CTW | - CART WASHER | NPW | - NONPOTABLE WATER |
| CU | - COPPER | NPT | - NATIONAL PIPE THREAD |
| CF | - COLD WATER | NT | - NOT TO SCALE |
| CWR | - COOLING WATER RETURN | O2 | - OXYGEN |
| CWS | - COOLING WATER SUPPLY | OC | - ON CENTER |
| CVF | - CLEAR WATER VENT | OD | - OUTSIDE DIAMETER/OVERFLOW DRAIN |
| CWW | - CLEAR WATER WASTE | OFICI | - OWNER FURNISHED CONTRACTOR INSTALLED |
| D | - DENT/DRAIN LINE | OFIC | - OWNER FURNISHED OWNER INSTALLED |
| DA | - DENTAL COMPRESSED AIR | PC | - PLUMBING CONTRACTOR |
| DAI | - DENTAL AIR INTAKE | PD | - PLANTER DRAIN |
| DB | - DECONTAMINATION BOOTH | PI | - POST INDICATOR VALVE |
| DCW | - DOMESTIC COLD WATER | PLBG | - PLUMBING |
| DCA | - DENTAL COMPRESSED AIR | PP | - PLUMBING PUMP |
| DIT | - DETAIL | PRSS | - PRESSURE |
| DFU | - DRAINAGE FIXTURE UNIT | PRV | - PRESSURE REDUCING VALVE |
| DHWR | - DOMESTIC HOT WATER RETURN | PSF | - POUNDS PER SQUARE FOOT |
| DHW | - DOMESTIC HOT WATER | PSI | - POUNDS PER SQUARE INCH |
| DIA | - DIAMETER | PSIG | - POUNDS PER SQUARE INCH GAUGE |
| DM | - DIMENSION | PW | - PURE WATER |
| DN | - DOWN | RAO | - RADIUS |
| DR | - DRYER | RD | - ROOF DRAIN |
| DRW | - DOMESTIC RECOVERY WATER | REC | - RECESSED |
| DS | - DENNIS/OUT | REC | - RECESSED |
| DTC | - DENTAL TREATMENT CENTER | RECT | - RECTANGLE |
| DV | - DENTAL VACUUM | RED | - REDUCED |
| DVE | - DENTAL VACUUM EXHAUST | RJ | - RIGID JOINT |
| DWS | - DRAWING | RPM | - REVOLUTIONS PER MINUTE |
| DWH | - DOMESTIC WATER HEATER | RPR | - REDUCED PRESSURE ZONE BACKFLOW |
| DWA | - DENTAL WALL UNIT | RV | - RELIEF VALVE |
| EA | - EACH | S | - STORMWATER |
| EDW | - ENDOSCOPE WASHER | SA | - MECHANICAL SHOCK ARRESTOR |
| EW | - EMERGENCY EYEWASH | SAN | - SANITARY |
| EJ | - EXPANSION JOINT | SCH | - SCHEDULE |
| ELEC | - ELECTRICAL | SD | - SUBSOIL DRAIN |
| ELEV | - ELEVATION | SH | - SHOWER |
| ESS | - EMERGENCY OXYGEN SUPPLY | SHT | - SHEET |
| ESB | - EMERGENCY OXYGEN SUPPLY CONNECTION | SHT | - SHEET |
| EQUIP | - EQUIPMENT | SK | - SINK |
| EQ | - EXPANSION TANK | SPEC | - SPECIFICATION |
| ETR | - EXISTING TO REMAIN | SQ | - SQUARE |
| ES | - EMERGENCY SHOWER | SR | - SERVICE RECEPTOR |
| EW | - ELECTRIC WATER COOLER | S/S | - STAINLESS STEEL |
| EX | - EXPANSION | ST | - STERILE |
| EXT | - EXTERIOR | STD | - STANDARD |
| EW | - EYEWASH | STK | - WASTE STACK |
| EW | - ELECTRIC WATER HEATER | STRU | - STRUCTURAL STRUCTURE |
| ERN | - ELECTRIC WATER HEATER | TD | - TRENCH DRAIN |
| FC | - FLOOR CLEANOUT | TEMP | - TEMPERATURE |
| FD | - FLOOR DRAIN | TOP | - TOP OF BEAM |
| FLR | - FLOOR | TOO | - TOP OF DECK |
| FM | - FORCE MAIN | TJU | - TOP OF JOIST |
| FP | - FIREPROOF | TOS | - TOP OF SLAB/TOP OF STEEL |
| FPM | - FEET PER MINUTE | TF | - TRAP FILLER |
| FT | - FLOOR SINK | TR | - TRAP PRIMER |
| FE | - FEET | TYP | - TYPICAL |
| FTG | - FOOTING | TW | - TEMPERED WATER |
| GA | - GAUGE | UR | - URINAL |
| GAL | - GALLON | USC | - ULTRASONIC CLEANER |
| GALV | - GALVANIZED | V | - VENT |
| GV | - GAS VENT | V | - VENT |
| GPM | - GALLONS PER MINUTE | VAC | - VACUUM |
| GRV | - GAS REGULATOR VALVE | VEL | - VELOCITY |
| GW | - GREASE WASTE | VOL | - VOLUME |
| GWW | - GREASE WASTE VENT | VP | - VACUUM PUMP |
| HB | - HOSE BIBB | VTR | - VENT THRU ROOF |
| HC | - HOSE STATION | W | - WASTEWATER |
| HD | - HUB DRAIN | W | - WASTE |
| HP | - HORIZONTAL HIGH POINT | WO | - WITHOUT |
| HPW | - HIGH PURITY WATER | WAGD | - WASTE ANESTHETIC GAS DISPOSAL |
| HPWR | - HIGH PURITY WATER RETURN | WB | - WALL BOX |
| HR | - HOSE REEL | WC | - WATER CLOSURE |
| HS | - HOSE STATION | WCCO | - WALL CLEANOUT |
| HT | - HEAT TRAKE HOT WATER | WD | - WASHER DISINFECTOR |
| HTR | - HEATER | WH | - WALL HYDRANT |
| HVAC | - HEATING VENTILATING & AIR CONDITIONING | WS | - WATER SOFTENER |
| HW | - HOT WATER | WSPU | - WATER SUPPLY FIXTURE UNIT |
| HW | - HOT WATER RETURN | WX | - WASHER EXTRACTOR |
| IA | - INSTRUMENT AIR | X | - EXISTING |
| IAP | - INSTRUMENT AIR PANEL | X | - EXISTING |
| ID | - INSIDE DIAMETER | YCD | - YARD CLEANOUT |
| IE | - INVERT ELEVATION | ZAP | - ZONE ALARM PANEL |
| IN | - INCHES | ZVP | - ZONE VALVE PANEL |
| IR | - IRRADIATION | | |
| IW | - INDIRECT WASTE | | |
| JS | - JANITOR SINK | | |
| KHW | - KITCHEN HOT WATER | | |
| KHR | - KITCHEN HOT WATER RETURN | | |
| KWH | - KITCHEN WATER HEATER | | |

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

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 919.974.2222
 912 SHANT MARY'S STREET, SUITE 100
 FAYETTEVILLE, NORTH CAROLINA 28404

FINLEY FIELDS NORTH
 PHASE 2 - CONSTRUCTION DRAWINGS
 THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
 CHAPEL HILL, NORTH CAROLINA

PROJECT NO. EDP-16020
 DRAWN BY: PRC
 CHECKED BY: DRR
 SCALE: NONE
 DATE: 08-13-2018
 SHEET NO. **P0.0**

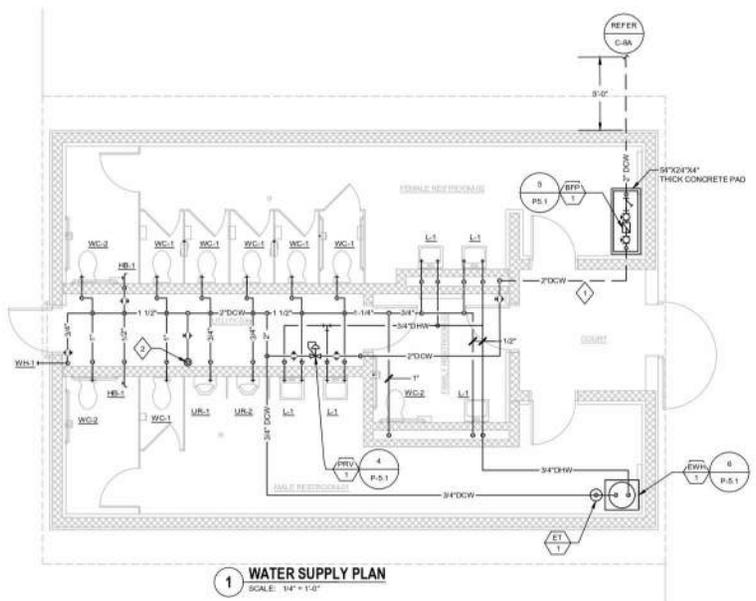
MCADAMS

AFI Affiliated Engineers
 1100 Southpark Drive, Suite 200
 North Charleston, South Carolina 29405
 (843) 881-4333
 www.afe.com

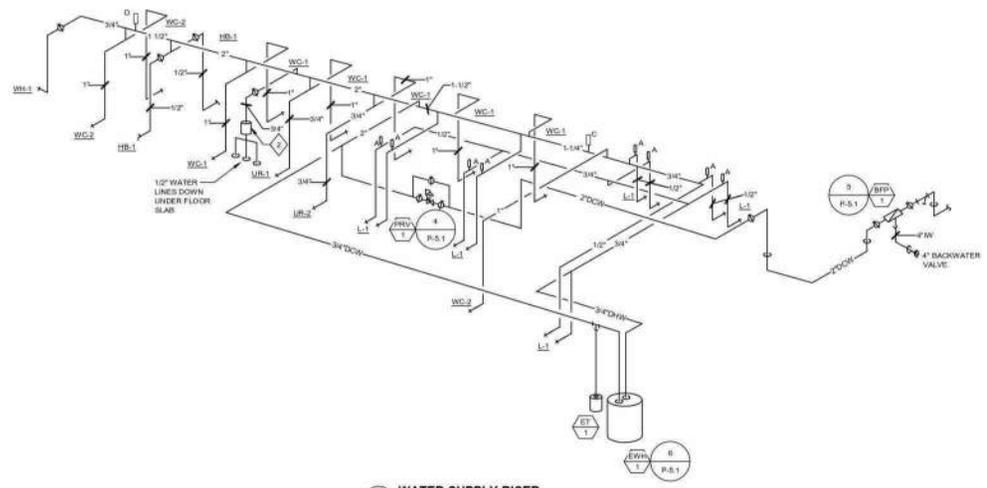
THE JOHN E. MCADAMS COMPANY, INC.
 2600 Macadam Parkway
 Durham, North Carolina 27713
 (919) 286-8800
 www.mcadams.com



- SHEET NOTES:**
- ◇ TYPE K SOFT COPPER UNDER FLOOR SLAB
 - ◇ TRAP PRIMER



1 WATER SUPPLY PLAN
 SCALE: 1/4" = 1'-0"



2 WATER SUPPLY RISER
 SCALE: NONE

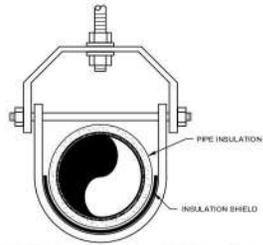
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REVISIONS:

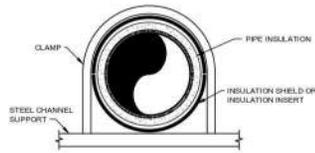
OWNER:
 THE EDUCATIONAL FOUNDATION, INC.
 450 SOUTHERN BOULEVARD DRIVE
 CHAPEL HILL, NORTH CAROLINA 27599
 ARCHITECT:
 ROTMAN ARCHITECTURE, P.A.
 918 EAST NORTH CAROLINA AVENUE, SUITE 100
 RALEIGH, NORTH CAROLINA 27601

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 PHASE 2 - CONSTRUCTION DRAWINGS
 THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
 CHAPEL HILL, NORTH CAROLINA
PLUMBING FLOOR PLAN

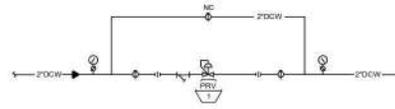
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| PROJECT NO. | EDF-18020 |
| DESIGNED BY | PRC |
| CHECKED BY | DSR |
| SCALE | AS NOTED |
| DATE | 08-13-2018 |
| SHEET NO. | P1.2 |



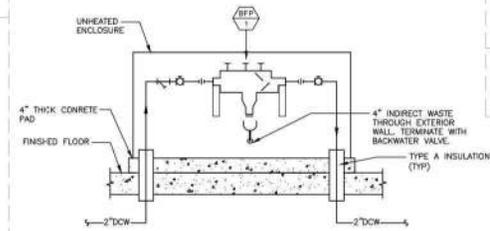
7 INSULATED PIPE SUPPORT FOR CLEVIS HANGER
SCALE: NONE



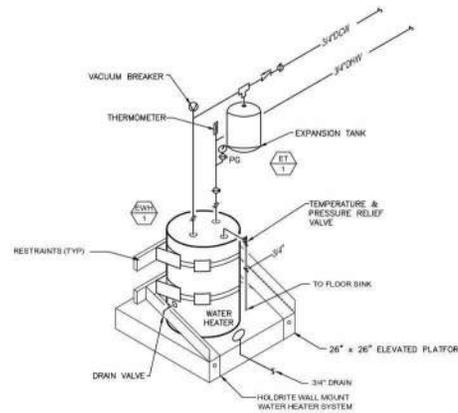
8 INSULATED PIPE CLAMP SUPPORT
SCALE: NONE



4 WATER PRESSURE REDUCING VALVE
SCALE: NONE

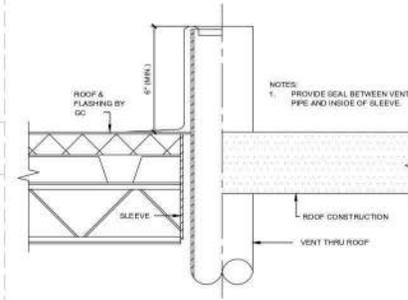


5 REDUCED PRESSURE BACKFLOW PREVENTER
SCALE: NONE

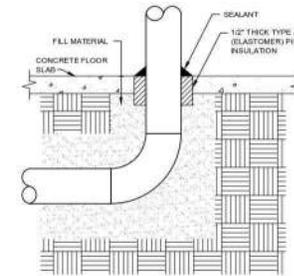


6 WALL MOUNTED DOMESTIC WATER HEATER
SCALE: NONE

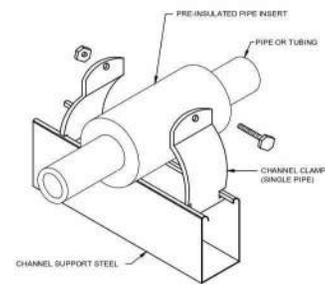
SCO #17-16917-01B



1 VENT THROUGH ROOF
SCALE: NONE



2 PIPE THRU SLAB ON GRADE
SCALE: NONE



3 HORIZONTAL OR VERTICAL PIPE OR TUBING ISOLATION SUPPORT
SCALE: NONE

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2400 Middlebrook Parkway
Dunwoody, North Carolina 27715
Tel: 703.836.7300
www.mcadams.com



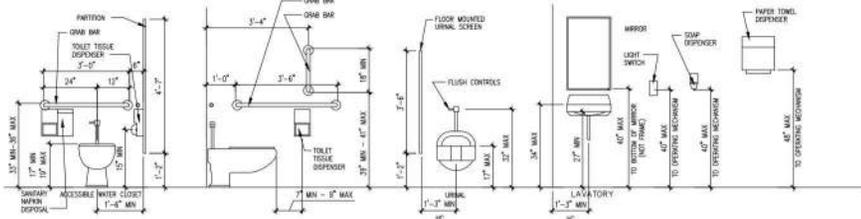
REVISONS

OWNER:
THE EDUCATIONAL FOUNDATION, INC.
450 NORTHERN BOULEVARD DRIVE
CHAPEL HILL, NORTH CAROLINA 27599
THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
918 EAST MARTIN STREET, SUITE 108
RALEIGH, NORTH CAROLINA 27606

FINLEY FIELDS NORTH
PHASE 2 - CONSTRUCTION DRAWINGS
THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
CHAPEL HILL, NORTH CAROLINA

PROJECT No. EDF-16020
DESIGNED BY: PRC
CHECKED BY: DSR
SCALE: NONE
DATE: 08-13-2018
SHEET No. **P5.1**

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION



TOILET ACCESSORY SCHEDULE

| MARK | DESCRIPTION | MANUFACTURER | MODEL # | REMARKS |
|-------|---|-----------------|--------------|---------------------------------------|
| TA-1 | TOILET TISSUE (ROLL) DISPENSER | BRADLEY | 5402 | NOTE 3 |
| TA-2 | TOILET TISSUE (ROLL) DISPENSER, PARTITION MTD | BRADLEY | 5422 | |
| TA-3 | PAPER TOWEL (ROLL) DISPENSER | GEORGIA PACIFIC | 5439 | OWNER FURNISHED, CONTRACTOR INSTALLED |
| TA-4 | WASTE RECEPTACLE | RUBBERMAID | | OWNER PROVIDED |
| TA-5 | LIQUID SOAP DISPENSER | TRIGLO | 9351 | OWNER FURNISHED, CONTRACTOR INSTALLED |
| TA-6 | GRAB BAR - 42" | BOBRICK | B-3808 X 42 | NOTE 3 |
| TA-7 | GRAB BAR - 36" | BOBRICK | B-3808 X 36 | NOTE 3 |
| TA-8 | GRAB BAR - 18" | BOBRICK | B-3808 X 18 | NOTE 3 |
| TA-9 | SANITARY WIPEN DISPOSAL UNIT, SURFACE MTD | RUBBERMAID | 6140 | OWNER FURNISHED, CONTRACTOR INSTALLED |
| TA-10 | MIRROR UNIT - 18" X 30" | BOBRICK | B-165 X 1838 | |
| TA-11 | DIAPER-CHANGING STATION, SURFACE MTD | BRADLEY | 962-11 | NOTE 3 |
| TA-12 | UNDER LAVATORY GUARD | TRUEBRO | LAV GUARD 2 | |
| TA-13 | MOP & BROOM HOLDER | BOBRICK | B-230 X 34 | NOTE 4 |

NOTE 1: PROVIDE PRODUCT SCHEDULED OR COMPARABLE PRODUCT BY ONE OF ACCEPTABLE MANUFACTURERS LISTED IN SPECIFICATION SECTION 162900

NOTE 2: REFER TO PLAN, THIS SHEET, TO DETERMINE QUANTITY OF EACH PRODUCT REQUIRED

NOTE 3: PROVIDE BLOCKING WITHIN FURRED WALLS AT ALL ACCESSORIES MOUNTED ON GYP-BDR/FP SUBSTRATES

NOTE 4: PROVIDE ONE (1) MOP & BROOM HOLDER IN UTILITY RM - COORDINATE LOCATION W/ PLUMBING SUBCONTRACTOR, PLACE AS CLOSE TO DOOR AS POSSIBLE W/O CONFLICTING W/ PLUMBING

FFITIELDS
 222 Chamber Street
 Chapel Hill, NC 27516
 919.966.1100
 919.966.1101
 919.966.1102
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 222 Chamber Street
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 919.966.1101
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 www.ael-engineers.com

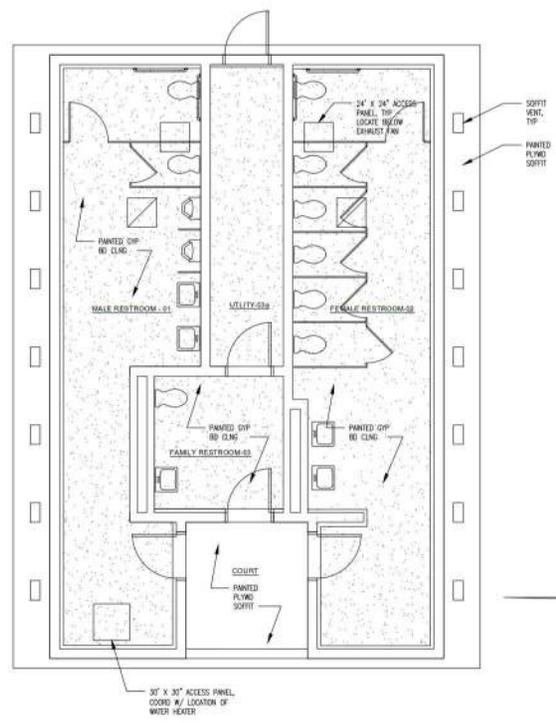
THE JOHNS & MCDAMAS COMPANY, INC.
 2000 Mountain Parkway
 Raleigh, North Carolina 27713
 919.795.2600
 919.795.2601
 www.jmcd.com

ara

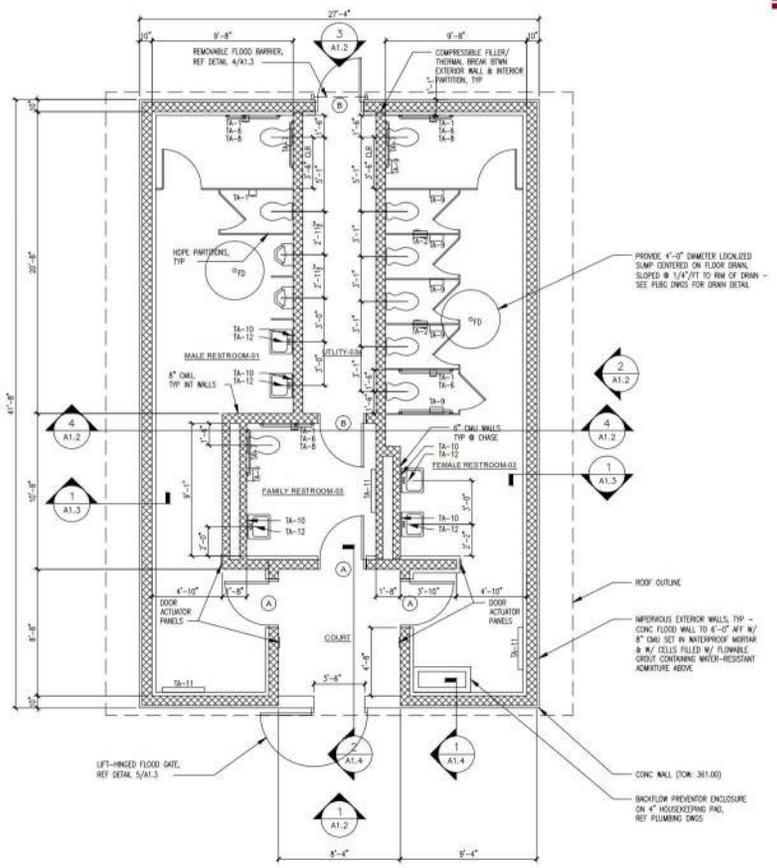
MCADAMS

HEALTH & SAFETY
 6505
 CHAPEL HILL, NC

3 TOILET ACCESSORY MOUNTING HEIGHTS
 NTS



2 REFLECTED CEILING PLAN
 1/4" = 1'-0"



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

FINLEY FIELDS NORTH
 PHASE 2 - CONSTRUCTION DRAWINGS
 THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
 CHAPEL HILL, NORTH CAROLINA

RESTROOM BUILDING - PLANS

OWNER: THE EDUCATIONAL FOUNDATION, INC.
 450 SHIFFER BOWLES DRIVE
 CHAPEL HILL NORTH CAROLINA 27599

DESIGNED BY: JAMES W. ROTMAN ARCHITECTURE, PA
 912 ISHANT MARTIN STREET, SUITE 100
 RALEIGH, NORTH CAROLINA 27603

PROJECT NO: EDP-18020

DATE: 08-13-2018

MCADAMS

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 (703) 851-4330
 www.finfelds.com

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 1000 South Main Street
 Fayetteville, NC 28404
 (910) 437-2000
 www.aei.com

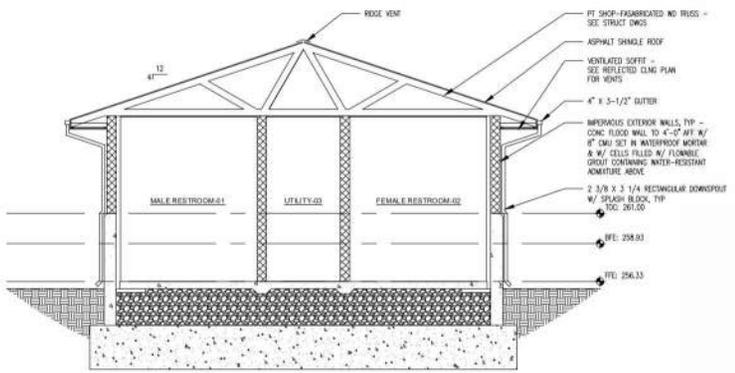
222 S. 4th Street, Suite 101
 Chapel Hill, NC 27514
 (919) 977-2000
 www.ara.com

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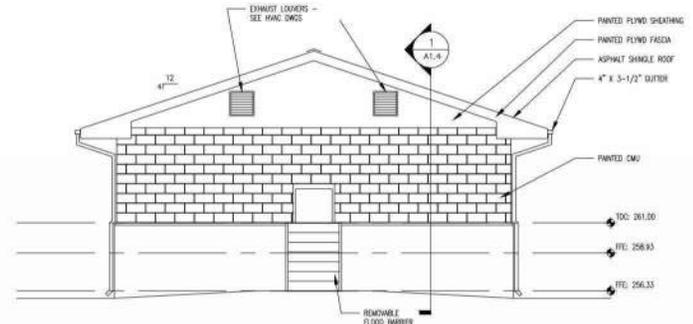
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 2000 Independence Parkway
 Durham, North Carolina 27713
 (919) 705-5800

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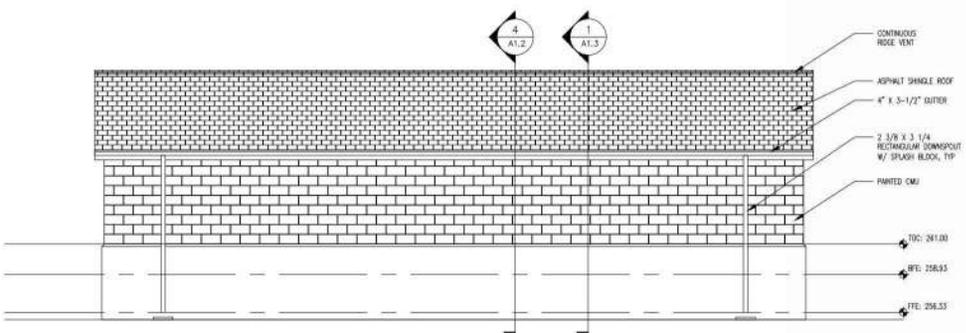
SMITH & BORDO
 6505
 CHAPEL HILL, NC



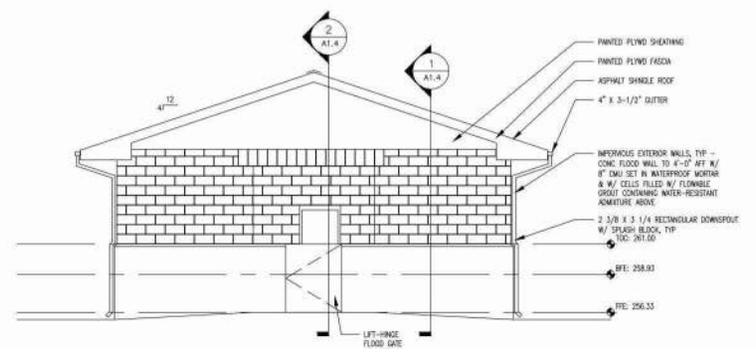
4 TRANSVERSE BUILDING SECTION
 1/4" = 1'-0"



3 BUILDING ELEVATION
 1/4" = 1'-0"



2 BUILDING ELEVATION
 1/4" = 1'-0"



1 BUILDING ELEVATION
 1/4" = 1'-0"

FINLEY FIELDS NORTH
 PHASE 2 - CONSTRUCTION DRAWINGS
 THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
 CHAPEL HILL, NORTH CAROLINA

RESTROOM BUILDING - ELEVATIONS

OWNER: THE EDUCATIONAL FOUNDATION, INC.
 450 SHIFFER BOWLES DRIVE
 CHAPEL HILL, NORTH CAROLINA 27599

DESIGNER: SMITH & BORDO ARCHITECTURE, P.A.
 512 ISHANT MARY'S STREET, SUITE 100
 SALEM, NORTH CAROLINA 28683

PROJECT NO: EDP-18020

DATE: 08-13-2018

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 3015 SHELBY AVENUE
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 (919) 467-0200
 www.aei.com

222 Chatham Street
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 (919) 967-0200
 www.cra.com

THE JOHNS & MCDAMMS COMPANY, INC.
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 www.jmcdamms.com

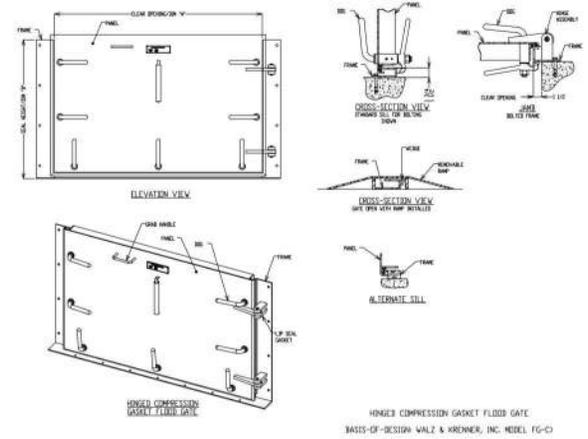
McADAMS

QUALITY & SUPPORT
 6565

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 PHASE 2 - CONSTRUCTION DRAWINGS
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 CHAPEL HILL, NORTH CAROLINA

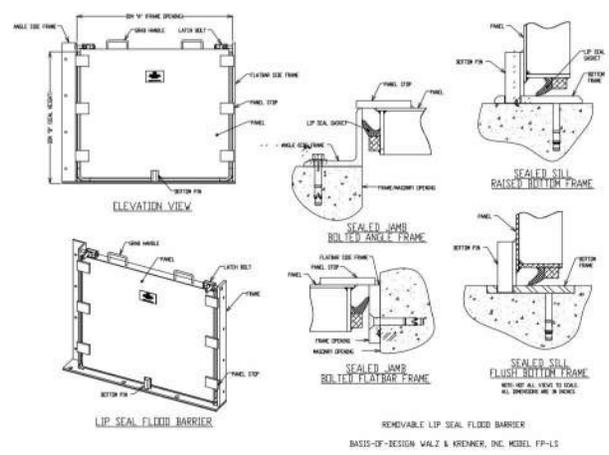
RESTROOM BUILDING - WALL SECTIONS & DETAILS

DATE: 08-13-2018
 DRAWN BY: A1.3
 CHECKED BY: []
 PROJECT NO: []



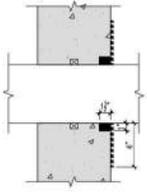
HINGED COMPRESSION GASKET FLOOD GATE
 BASIS-OF-DESIGN: WALZ & KREMER, INC. MODEL FG-C

5 HINGED COMPRESSION GASKET FLOOD GATE
 NTS



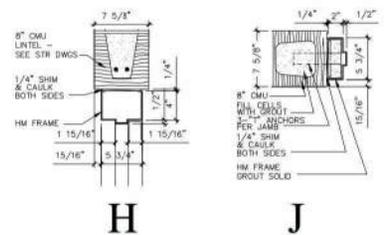
REMOVABLE LIP SEAL FLOOD BARRIER
 BASIS-OF-DESIGN: WALZ & KREMER, INC. MODEL FP-LS

4 REMOVABLE LIP SEAL FLOOD BARRIER
 NTS

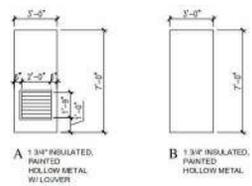


- ON WATER SIDE MODIFY FORMS AROUND PIPE TO CREATE LINEAR GROOVE 1" HIGH BY 1 1/2" DEEP TO FULLY ENCASE PIPE
 - CLEAN LINEAR GROOVE THOROUGHLY & APPLY SLURRY TO GROOVE. FILL GROOVE W/ DRY-PACK
 - APPLY SLURRY OVER SEALING STRIP & EXTEND 6" FROM PIPE IN ALL DIRECTIONS
- CONCENTRATE SLURRY
 ■ CONCENTRATE DRY-PACK
 □ WATERSTOP

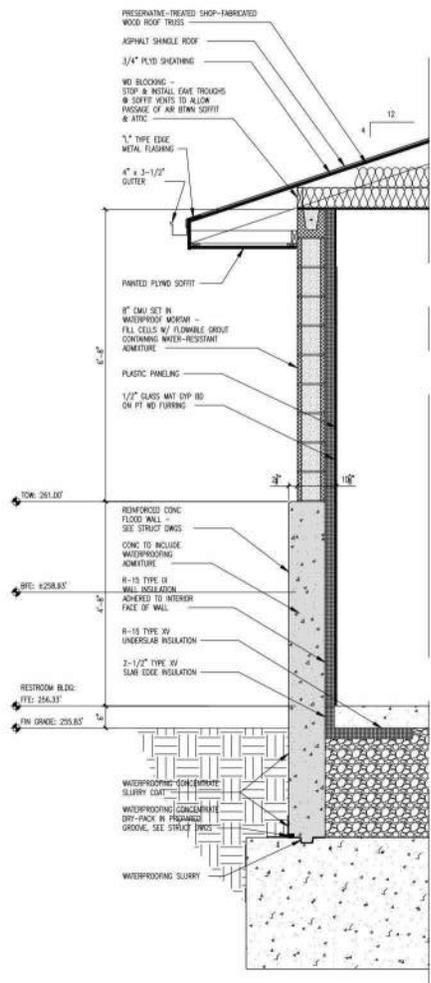
6 PIPE PENETRATION WATERPROOFING DETAIL
 NTS



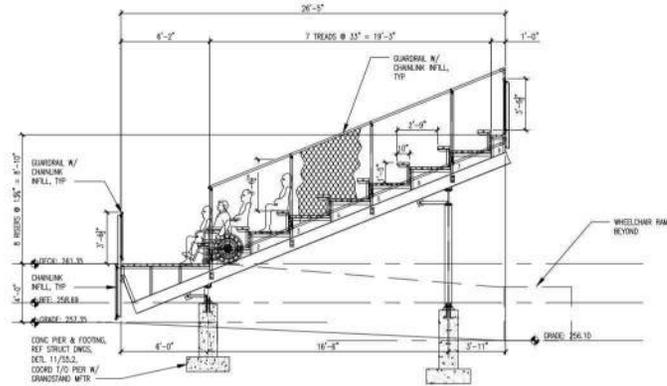
3 DOOR INSTALLATION DETAILS
 1-1/2" = 1'-0"



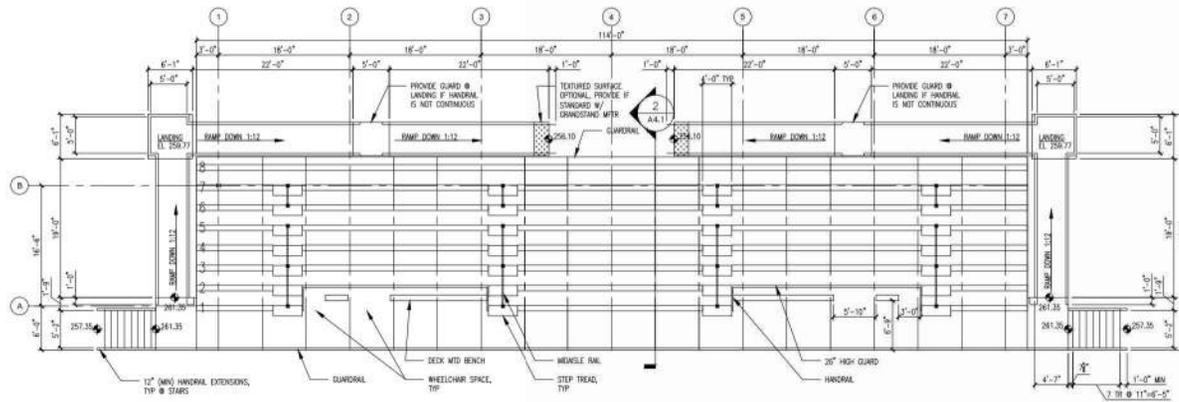
2 DOOR TYPES
 1/4" = 1'-0"



1 WALL SECTION @ EAVE
 3/4" = 1'-0"



2 SECTION - GRANDSTAND
1/4" = 1'-0"



1 PLAN - GRANDSTAND
1/8" = 1'-0"

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FINLEY FIELDS NORTH
PHASE 2 - CONSTRUCTION DRAWINGS
THE UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL
CHAPEL HILL, NORTH CAROLINA

CONTRACT NO. EDJ-18020
DESIGNED BY:
CHECKED BY:
DATE: 08-13-2018
PROJECT NO. A4.1

McADAMS