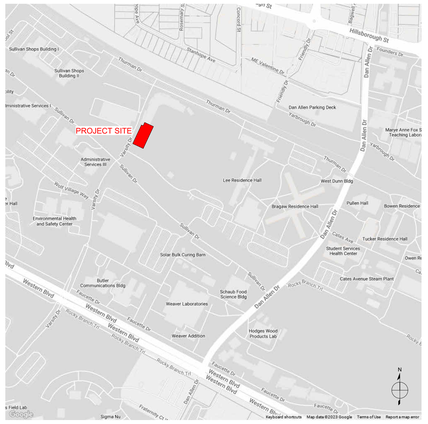
PROJECT VICINITY MAP



SOUTHWEST PERSPECTIVE

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NC State University Doak Field Enhancement

Doak Field at Dail Park, 1081 Varsity Dr Raleigh, NC 27606

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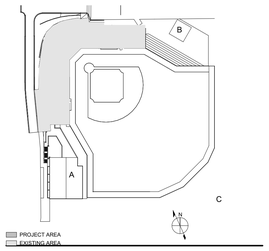
CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



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9/3/2024

REVISIONS

NO.	BY	DESCRIPTION	DATE
	EC	ISSUE FOR BID	09/03/2024

NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY AC DATE 09/03/2024

PROJECT NO. 20220400 SCALE

DRAWING NAME

TITLE SHEET AND SHEET INDEX

FLOOR/SECTION PHASE DRAWING NO.

BID CS.A

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: NC State University Doak Field Existing Building Assessment
Address: 1081 Varsity Dr, Raleigh, NC 27607 Zip Code ____
Owner/Authorized Agent: _ ____ Phone # (____) ____ ____ E-Mail ____
Owned By: ☐ City/County ☐ Private [✓ State]
Code Enforcement Jurisdiction: ☐ City____ ☐ County____ [✓ State]

CONTACT: ____

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural				(__)____	
Civil				(__)____	
Electrical				(__)____	
Fire Alarm					
Plumbing					
Mechanical					
Sprinkler-Standpipe					
Structural				(__)____	
Retaining Walls >5' High				(__)____	
Other				(__)____	

Existing Building

("Other" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE: ☐ New Building ☐ Addition ☐ Renovation
☐ 1st Time Interior Completion
☐ Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements
☐ Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements

2018 NC EXISTING BUILDING CODE: EXISTING: ☐ Prescriptive ☐ Repair ☐ Chapter 14
Alteration: ☐ Level I ☐ Level II ☐ Level III
☐ Historic Property ☐ Change of Use

CONSTRUCTED: (date) 2004 **CURRENT OCCUPANCY(S)** (Ch. 3): A-4, B, S
RENOVATED: (date) 2023 **PROPOSED OCCUPANCY(S)** (Ch. 3): ____
RISK CATEGORY (Table 1604.5): **Current:** ☐ I ☐ II [✓ III] ☐ IV
Proposed: ☐ I ☐ II [✓ III] ☐ IV

BASIC BUILDING DATA
Construction Type: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A
(check all that apply) ☐ I-B [✓ II-B] ☐ III-B ☐ V-B
Sprinklers: ☐ No ☐ Partial [✓ Yes] [✓ NFPA 13] ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ☐ No [✓ Yes] Class ☐ I ☐ II ☐ III ☐ Wet ☐ Dry
Fire District: [✓ No] ☐ Yes **Flood Hazard Area:** [✓ No] ☐ Yes
Special Inspections Required: ☐ No ☐ Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

Gross Building Area Table

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3rd Floor	n/a		
2nd Floor	5,166		
Mezzanine	n/a		
1st Floor	5,899		
Basement	n/a		
TOTAL	11,065		

ALLOWABLE AREA

Primary Occupancy Classification(s):
Assembly ☐ A-1 ☐ A-2 [✓ A-3] ☐ A-4 ☐ A-5
Business [✓]
Educational ☐
Factory ☐ F-1 Moderate ☐ F-2 Low
Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional ☐ I-1 Condition ☐ 1 ☐ 2
☐ I-2 Condition ☐ 1 ☐ 2
☐ I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ I-4
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

Accessory Occupancy Classification(s): S-2, A-2
Incidental Uses (Table 509): ____
Special Uses (Chapter 4 – List Code Sections): ____
Special Provisions: (Chapter 5 – List Code Sections): ____
Mixed Occupancy: ☐ No [✓ Yes] Separation: n/a Hr. Exception: 302.3.2

[✓ Non-Separated Use (508.3)] - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

☐ Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$

____ + ____ + …… = ____ ≤ 1.00

Existing Building

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[4] AREA	(C) AREA FOR FRONTAGE INCREASE[1,5]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]
1	Business	5,899	23,000	n/a	23,000
1	A5, B	5,166	23,000	n/a	23,000

[1] Frontage area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = ______ (F)
b. Total Building Perimeter = ______ (P)
c. Ratio (F/P) = ______ (F/P)
d. W = Minimum width of public way = ______ (W)
e. Percent of frontage increase $I_f = 100[F/P - 0.25] \times W/30$ = ______ (%)
[2] Unlimited area applicable under conditions of Section 507.
[3] Maximum Building Area = total number of stories in the building x D (maximum3 stories) (506.2).
[4] The maximum area of open parking garages must comply with Table 406.5.4.
[5] Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE[1]
Building Height in Feet (Table 504.3)[2]	60	37	
Building Height in Stories (Table 504.4)[3]	4	2	

[1] Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.
[2] The maximum height of air traffic control towers must comply with Table 412.3.1.
[3] The maximum height of open parking garages must comply with Table 406.5.4.

Existing Building

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/____* REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses	22'	0					
Bearing Walls							
Exterior							
North	25'	0					
East	25'	0					
West	25'	0					
South	25'	0					
Interior		0					
Nonbearing Walls and Partitions							
Exterior walls							
North	25'	0					
East	25'	0					
West	25'	0					
South	25'	0					
Interior walls and partitions		0					
Floor Construction Including supporting beams and joists		0					
Floor Ceiling Assembly		0					
Columns Supporting Floors		0					
Roof Construction, including supporting beams and joists		0					
Roof Ceiling Assembly		0					
Columns Supporting Roof		0					
Shaft Enclosures - Exit		1	1				
Shaft Enclosures - Other		1	1				
Corridor Separation		0	0				
Occupancy/Fire Barrier Separation		n/a	n/a				
Party/Fire Wall Separation		n/a	n/a				
Smoke Barrier Separation		n/a	n/a				
Smoke Partition		n/a	n/a				
Tenant/Dwelling Unit/ Sleeping Unit Separation		n/a	n/a				
Incidental Use Separation		n/a	n/a				

* Indicate section number permitting reduction

Existing Building

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☐ No [✓ Yes]
Exit Signs: ☐ No [✓ Yes]
Fire Alarm: ☐ No [✓ Yes]
Smoke Detection Systems: ☐ No [✓ Yes] ☐ Partial ______
Carbon Monoxide Detection: ☐ No [✓ Yes]

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: ____________

☐ Fire and/or smoke rated wall locations (Chapter 7)
☐ Assumed and real property line locations (if not on the site plan)
☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)
☐ Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
☐ Occupant loads for each area
☐ Exit sign locations (1013)
☐ Exit access travel distances (1017)
☐ Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
☐ Dead end lengths (1020.4)
☐ Clear exit widths for each exit door
☐ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
☐ Actual occupant load for each exit door
☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
☐ Location of doors with panic hardware (1010.1.10)
☐ Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
☐ Location of doors with electromagnetic egress locks (1010.1.9.9)
☐ Location of doors equipped with hold-open devices
☐ Location of emergency escape windows (1030)
☐ The square footage of each fire area (202)
☐ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
☐ Note any code exceptions or table notes that may have been utilized regarding the items above

Existing Building

ACCESSIBLE DWELLING UNITS
(SECTION 1107)

UNIT CLASSIFICATION	TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED

ACCESSIBLE PARKING
(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	TOTAL # OF PARKING SPACES PROVIDED	# OF ACCESSIBLE SPACES PROVIDED 96" SPACES	# OF ACCESSIBLE SPACES PROVIDED 132" SPACES	TOTAL # ACCESSIBLE PROVIDED
TOTAL					

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE		WATER CLOSETS MALE	WATER CLOSETS FEMALE	WATER CLOSETS UNISEX	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	LAVATORIES UNISEX	SHOWERS /TUBS	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS ACCESSIBLE
SPACE	EXIST'G	5	10		6	5	5		0	6	2
	NEW										
	REQ'D										

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

Existing Building

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: ☐ No [✓ Yes] (The remainder of this section is not applicable)

Exempt Building: ☐ No ☐ Yes (Provide code or statutory reference): ____________

Climate Zone: ☐ 3A ☐ 4A ☐ 5A

Method of Compliance: Energy Code ☐ Performance ☐ Prescriptive
ASHRAE 90.1 ☐ Performance ☐ Prescriptive
(If "Other" specify source here)____________

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly)
Description of assembly: ____
U-Value of total assembly: ____
R-Value of insulation: ____
Skylights in each assembly: ____
U-Value of skylight: ____
total square footage of skylights in each assembly: ____

Exterior Walls (each assembly)
Description of assembly: ____
U-Value of total assembly: ____
R-Value of insulation: ____
Openings (windows or doors with glazing)
U-Value of assembly: ____
Solar heat gain coefficient: ____
projection factor: ____
Door R-Values: ____

Walls below grade (each assembly)
Description of assembly: ____
U-Value of total assembly: ____
R-Value of insulation: ____

Floors over unconditioned space (each assembly)
Description of assembly: ____
U-Value of total assembly: ____
R-Value of insulation: ____

Floors slab on grade
Description of assembly: ____
U-Value of total assembly: ____
R-Value of insulation: ____
Horizontal/vertical requirement: ____
slab heated: ____

Existing Building

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Snow (I_S) 1.1
Seismic (I_E) 1.25

Live Loads: Roof 20 +10 psf
Mezzanine n/a psf
Floor 100 psf

Ground Snow Load: (see note 3) psf

Wind Load: Ultimate Wind Speed (see note 4) mph (ASCE-7)
Exposure Category C

SEISMIC DESIGN CATEGORY: [✓ A] ☐ B ☐ C ☐ D
Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) ☐ I ☐ II [✓ III] ☐ IV
Spectral Response Acceleration S_S 34.7 %g S_1 24.7 %g
Site Classification (ASCE 7) ☐ A ☐ B ☐ C [✓ D] ☐ E ☐ F
Data Source: ☐ Field Test ☐ Presumptive ☐ Historical Data
Basic structural system ☐ Bearing Wall ☐ Dual w/Special Moment Frame
[✓ Building Frame] ☐ Dual w/Intermediate R/C or Special Steel
☐ Moment Frame ☐ Inverted Pendulum
Analysis Procedure: ☐ Simplified [✓ Equivalent Lateral Force] ☐ Dynamic
Architectural, Mechanical, Components anchored? [✓ Yes] ☐ No

LATERAL DESIGN CONTROL: Earthquake ☐ Wind ☐ (see note 5)

SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) 2000 psf
Presumptive Bearing capacity n/a psf
Pile size, type, and capacity n/a

Existing Building

Notes:
1. Unless noted otherwise, values provided are from Record Documents of initial construction dated April 30, 2004.
2. Values are translated from code in effect at the time of construction, NCBC-2002
3. Flat-roof load provided in original code summary = 11.6 psf, Exposure factor = 1.0 psf, thermal factor = 1.0
4. 90 mph Basic wind speed provided in original code summary
5. Lateral control not identified in original code summary

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
winter dry bulb: 16° F
summer dry bulb: 90° F

Interior design conditions
winter dry bulb: 70° F
summer dry bulb: 75° F
relative humidity: 50%

Building heating load: 415 MBH

Building cooling load: 20 Tons

Mechanical Spacing Conditioning System
Unitary
description of unit: ____
heating efficiency: ____
cooling efficiency: ____
size category of unit: ____
Boiler
Size category. If oversized, state reason.: n/a
Chiller
Size category. If oversized, state reason.: n/a

List equipment efficiencies: ____

Existing Building

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code [✓ Performance] ☐ Prescriptive
ASHRAE 90.1 ☐ Performance ☐ Prescriptive

Lighting schedule (each fixture type)
T-8 lamp type required in fixture
2 or 4 number of lamps in fixture
electronic ballast type used in the fixture
1 number of ballasts in fixture
75-150 total wattage per fixture
11,633 / 12,495 total interior wattage specified vs. allowed (whole building or space by space)
n/a total exterior wattage specified vs. allowed

Additional Efficiency Package Options
(When using the 2018 NCECC; not required for ASHRAE 90.1)
☐ C406.2 More Efficient HVAC Equipment Performance
☐ C406.3 Reduced Lighting Power Density
☐ C406.4 Enhanced Digital Lighting Controls
☐ C406.5 On-Site Renewable Energy
☐ C406.6 Dedicated Outdoor Air System
☐ C406.7 Reduced Energy Use in Service Water Heating

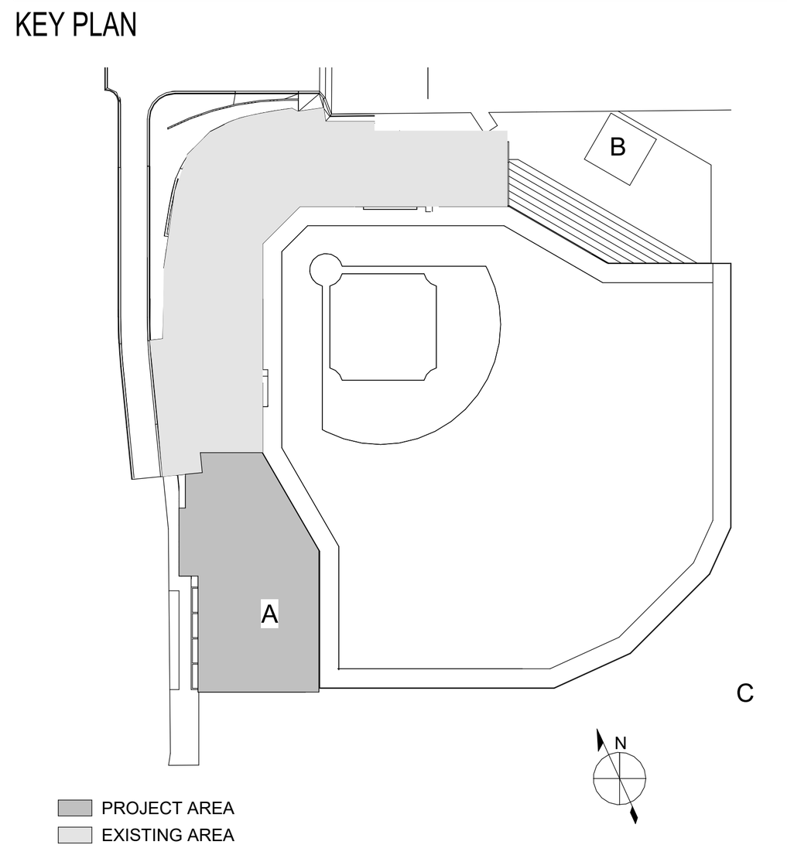
Existing Building

EWING COLE
8208 Brownleigh Drive, Suite 200
Raleigh, NC 27617
Tel: 919-460-6700 Fax: 919-460-6733

CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. REGISTERED ARCHITECTURAL CORPORATION 52711 NORTH CAROLINA RALEIGH, NC

JASON C. KOLANO REGISTERED ARCHITECT 11036 NORTH CAROLINA CHARLOTTE, NC
[illegible] 9/3/2024

REVISIONS

NO.	BY	DESCRIPTION	DATE
	EC	ISSUE FOR BID	09/03/2024

NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY CB, GW DATE 09/03/2024
PROJECT NO. 20220400 SCALE 12" = 1'-0"
DRAWING NAME
EXISTING BUILDING CODE SUMMARY

FLOOR/SECTION PHASE DRAWING NO.
BID G0.0

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: NC State University Doak Field Enhancements - Left/Right Field Additions
Address: 1081 Varsity Dr, Raleigh, NC 27607 Zip Code
Owner/Authorized Agent: Bob Cwikla Phone # (919) 515 - 6836 E-Mail rrcwikla@ncsu.edu
Owned By: ☐ City/County ☐ Private ■ State
Code Enforcement Jurisdiction: ☐ City_____ ☐ County_____ ■ State

CONTACT:

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	Ewing Cole	Jason Kolano	11036	(980) 321-4400	jkolano@ewingcole.com
Civil / Landscape	McAdams	Derrick Blankenship	048723	(919) 649-1875	blankenship@mcadamsco.com
Electrical	Ewing Cole	Richard Garman	039066	(215) 625-4182	rgarman@ewingcole.com
Fire Alarm	Ewing Cole	Richard Garman	039066	(215) 625-4182	rgarman@ewingcole.com
Plumbing	Ewing Cole	Rich Calaena	049327	(919) 256-5883	rcalaena@ewingcole.com
Mechanical	Ewing Cole	Rich Calaena	049327	(919) 256-5883	rcalaena@ewingcole.com
Sprinkler-Standpipe	Ewing Cole	Rich Calaena	049327	(919) 256-5883	rcalaena@ewingcole.com
Structural	SKA	Aaron Bopp	029394	(336) 456-3004	abbopp@skaeng.com
Retaining Walls >5' High	SKA	Aaron Bopp	029394	(336) 456-3004	abbopp@skaeng.com
Other Foodservice	Vision Builders	Tracy Tarselli	700056	(919) 842-1806	tracy@visionbuildersnc.com

("Other" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE: ☐ New Building ■ Addition ☐ Renovation
☐ 1st Time Interior Completion
☐ Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements
☐ Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements

2018 NC EXISTING BUILDING CODE: EXISTING: ☐ Prescriptive ☐ Repair ☐ Chapter 14
Alteration: ☐ Level I ☐ Level II ☐ Level III
☐ Historic Property ☐ Change of Use
CONSTRUCTED: (date) 2004 **CURRENT OCCUPANCY(S)** (Ch. 3): A, B
RENOVATED: (date) 2023 **PROPOSED OCCUPANCY(S)** (Ch. 3): A, B, S
RISK CATEGORY (Table 1604.5): **Current:** ☐ I ■ II ■ III ☐ IV
Proposed: ☐ I ■ II ■ III ☐ IV

BASIC BUILDING DATA
Construction Type: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A
(check all that apply) ☐ I-B ■ II-B ☐ III-B ☐ V-B
Sprinklers: ☐ No ☐ Partial ■ Yes ■ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ■ No ☐ Yes Class ☐ I ☐ II ☐ III ☐ Wet ☐ Dry
Fire District: ■ No ☐ Yes **Flood Hazard Area:** ■ No ☐ Yes
Special Inspections Required: ☐ No ■ Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

Gross Building Area Table

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3rd Floor	708		
2nd Floor	5,166	8,992	14,158
Mezzanine	578	851	
1st Floor	5,899	11,535	17,434
Basement	518	1,082 2,155	
TOTAL	11,065	20,485	31,592

ALLOWABLE AREA

Primary Occupancy Classification(s):
Assembly ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ■ A-5
Business ☐
Educational ☐
Factory ☐ F-1 Moderate ☐ F-2 Low
Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional ☐ I-1 Condition ☐ 1 ☐ 2
☐ I-2 Condition ☐ 1 ☐ 2
☐ I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ I-4
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

Accessory Occupancy Classification(s): B, S-2
Incidental Uses (Table 509): _____
Special Uses (Chapter 4 – List Code Sections): _____
Special Provisions: (Chapter 5 – List Code Sections): _____
Mixed Occupancy: ☐ No ■ Yes Separation: ____ Hr. Exception: _____

■ Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

☐ Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

Actual Area of Occupancy A / *Allowable Area of Occupancy A* + *Actual Area of Occupancy B* / *Allowable Area of Occupancy B* ≤ 1
_____ + _____ + ... = _____ ≤ 1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[a] AREA	(C) AREA FOR FRONTAGE INCREASE[1,2]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]
1	A-3 Workout, Locker, Lounge Storage, Mechanical	10,804 851	28,500 (A-3)	not used	28,500
2	A-3 Concourse B- Concessions, Office, Security S-Storage, Mechanical	9,276 1,082 2,155	28,500 (A-3)	not used	28,500

[1] Frontage area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
b. Total Building Perimeter = _____ (P)
c. Ratio (F/P) = _____ (F/P)
d. W = Minimum width of public way = _____ (W)
e. Percent of frontage increase $I_f = 100(F/P - 0.25) \times W/30 =$ _____ (%)
[2] Unlimited area applicable under conditions of Section 507.
[3] Maximum Building Area = total number of stories in the building x D (maximum3 stories) (506.2).
[4] The maximum area of open parking garages must comply with Table 406.5.4.
[5] Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE [1]
Building Height in Feet (Table 504.3) [2]	75	42	
Building Height in Stories (Table 504.4) [3]	3 (A-3)	2	

[1] Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.
[2] The maximum height of air traffic control towers must comply with Table 412.3.1.
[3] The maximum height of open parking garages must comply with Table 406.5.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING PROVIDED (hr)_____* REDUCTION)		DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses		0	0				
Bearing Walls							
Exterior		0	0				
North							
East							
West							
South							
Interior		0	0				
Nonbearing Walls and Partitions							
Exterior walls		0	0				
North							
East							
West							
South							
Interior walls and partitions		0	0				
Floor Construction Including supporting beams and joists		0	0				
Floor/Ceiling Assembly							
Columns Supporting Floors		0	0				
Roof Construction, including supporting beams and joists		0	0				
Roof/Ceiling Assembly							
Columns Supporting Roof		0	0				
Shaft Enclosures - Exit		1			UL U419		
Shaft Enclosures - Other		1			UL U419 UL U415		
Corridor Separation							
Occupancy/Fire Barrier Separation							
Party/Fire Wall Separation							
Smoke Barrier Separation							
Smoke Partition							
Tenant/Dwelling Unit/ Sleeping Unit Separation							
Incidental Use Separation							

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
> 30 ft (Varsity Dr ROW)	UP, S	No Limit	
> 30 ft (Field of Play)	UP, S	No Limit	

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☐ No ■ Yes
Exit Signs: ☐ No ■ Yes
Fire Alarm: ☐ No ■ Yes
Smoke Detection Systems: ☐ No ■ Yes ☐ Partial _____
Carbon Monoxide Detection: ■ No ☐ Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: LS1.00, LS1.1A, LS1.2A, LS1.2B

N/A ☐ Fire and/or smoke rated wall locations (Chapter 7)
☐ Assumed and real property line locations (if not on the site plan) See site plan A1.0.1
☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)
■ Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
■ Occupant loads for each area
☐ Exit sign locations (1013)
■ Exit access travel distances (1017)
■ Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
■ Dead end lengths (1020.4)
■ Clear exit widths for each exit door
■ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
■ Actual occupant load for each exit door
N/A ☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
☐ Location of doors with panic hardware (1010.1.10)
N/A ☐ Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
N/A ☐ Location of doors with electromagnetic egress locks (1010.1.9.9)
N/A ☐ Location of doors equipped with hold-open devices
N/A ☐ Location of emergency escape windows (1030)
☐ The square footage of each fire area (202)
N/A ☐ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
☐ Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS
(SECTION 1107)

UNIT CLASSIFICATION	TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
NOT APPLICABLE								

ACCESSIBLE PARKING
(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED		TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	96" SPACES	132" SPACES	
Varsity Dr (Existing)		26	2		2
Sullivan "RW" Area (Ex)		209	5 (2 van)		5
TOTAL		335	7 (2 van)		7

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE		WATER CLOSETS			URINALS	LAVATORIES			SHOWERS	DRINKING FOUNTAINS	
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX	TUBS	REGULAR	ACCESSIBLE
SPACE	EXIST'G	4	10	2	4	5	6	2	15	2	1
	NEW	3		3	4	5		3	11		
	REQ'D										

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)
None

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: ☐ No ☐ Yes (The remainder of this section is not applicable)

Exempt Building: ■ No ☐ Yes (Provide code or statutory reference): _____

Climate Zone: ☐ 3A ■ 4A ☐ 5A

Method of Compliance: Energy Code ☐ Performance ■ Prescriptive
ASHRAE 90.1 ☐ Performance ☐ Prescriptive
(If "Other" specify source here)_____

THERMAL ENVELOPE (Prescriptive method only) See Sheet A5.0.1 for exterior assemblies

Roof/ceiling Assembly (each assembly) STANDING SEAM METAL PANEL / SPLIT SLAB
Description of assembly: CONCRETE / SINGLE PLY MEMBRANE
U-Value of total assembly: U- 0307
R-Value of insulation: R-32.5
Skylights in each assembly: N/A
U-Value of skylight: N/A
total square footage of skylights in each assembly: N/A

Exterior Walls (each assembly) BRICK VENEER ON METAL STUD /
Description of assembly: RAIN SCREEN PANEL ON CIP CONCRETE
U-Value of total assembly: U- 036
R-Value of insulation: R12.6ci + R14.7 = R27.3
Openings (windows or doors with glazing)
U-Value of assembly: U-0.37
Solar heat gain coefficient: 0.23
projection factor: 0
Door R-Values: R-2.5, minimum

Walls below grade (each assembly) BRICK VENEER ON CIP CONCRETE
Description of assembly:
U-Value of total assembly: U- 079
R-Value of insulation: R12.6ci

Floors over unconditioned space (each assembly)
Description of assembly: N/A
U-Value of total assembly: N/A
R-Value of insulation: N/A

Floors slab on grade
Description of assembly: CONCRETE SLAB
U-Value of total assembly: U- 066
R-Value of insulation: R15
Horizontal/vertical requirement: R15 FOR 24"
slab heated:

2018 APPENDIX B (Right Field Player Performance Center)
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Snow (I_S) 1.10
Seismic (I_E) 1.25

Live Loads: Roof 20 psf
Mezzanine 40 psf
Floor 100 psf

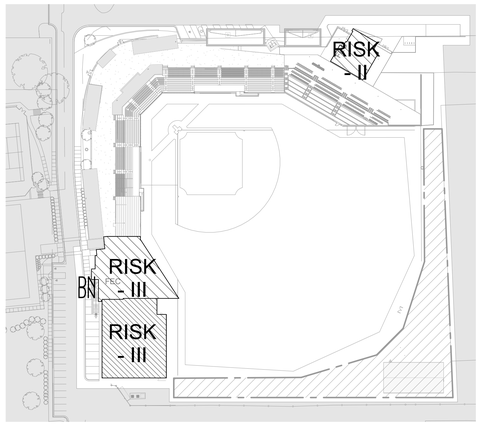
Ground Snow Load: 15 psf

Wind Load: Ultimate Wind Speed 120 mph (ASCE-7)
Exposure Category C

SEISMIC DESIGN CATEGORY: ☐ A ■ B ☐ C ☐ D
Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) ☐ I ☐ II ■ III ☐ IV
Spectral Response Acceleration S_s 0.154 %g S_1 0.077 %g
Site Classification (ASCE 7) ☐ A ☐ B ☐ C ■ D ☐ E ☐ F
Data Source: ■ Field Test ☐ Prescriptive ☐ Historical Data
Basic structural system ☐ Bearing Wall ☐ Dual w/Special Moment Frame
■ Building Frame ☐ Dual w/Intermediate R/C or Special Steel
☐ Moment Frame ☐ Inverted Pendulum
Analysis Procedure: ☐ Simplified ■ Equivalent Lateral Force ☐ Dynamic
Architectural, Mechanical, Components anchored? ☐ Yes ■ No

LATERAL DESIGN CONTROL: Earthquake ☐ Wind ■

SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) 2000 psf
Presumptive Bearing capacity NA psf
Pile size, type, and capacity NA



1 BUILDING CONSTRUCTION TYPE DIAGRAM
SCALE: 1" = 80'-0"

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
winter dry bulb: 16 dF
summer dry bulb: 93 dF

Interior design conditions
winter dry bulb: 68 dF
summer dry bulb: 72 dF
relative humidity: max 60%

	Right Field	Left Field
Building heating load:	714 MBH	51 MBH
Building cooling load:	519 MBH	83 MBH

Mechanical Spacing Conditioning System
Unitary
description of unit: Refer to Sheet H4.1.2
heating efficiency: N/A
cooling efficiency: IEER 19.0
size category of unit: > 65,000 BTUh and < 135,000 BTUh
Boiler
Size category. If oversized, state reason.: N/A
Chiller
Size category. If oversized, state reason.: < 150 Tons

List equipment efficiencies: Refer to Sheets H4.1.2, H4.1.3

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code ☒ Performance ☐ Prescriptive
ASHRAE 90.1 ☐ Performance ☐ Prescriptive

Lighting schedule (each fixture type)
lamp type required in fixture Refer to luminaire schedule on drawing E4.1.2
number of lamps in fixture Refer to luminaire schedule on drawing E4.1.2
ballast type used in the fixture Refer to luminaire schedule on drawing E4.1.2
number of ballasts in fixture Not applicable
total wattage per fixture Refer to luminaire schedule on drawing E4.1.2
total interior wattage specified vs. allowed (whole building or space by space) 10,574 Watts specified vs 15,073 Watts allowed
total exterior wattage specified vs. allowed 900 Watts specified vs 6,052 Watts allowed

Additional Efficiency Package Options (When using the 2018 NCECC; not required for ASHRAE 90.1)
☐ C406.2 More Efficient HVAC Equipment Performance
☒ C406.3 Reduced Lighting Power Density
☐ C406.4 Enhanced Digital Lighting Controls
☐ C406.5 On-Site Renewable Energy
☐ C406.6 Dedicated Outdoor Air System
☐ C406.7 Reduced Energy Use in Service Water Heating

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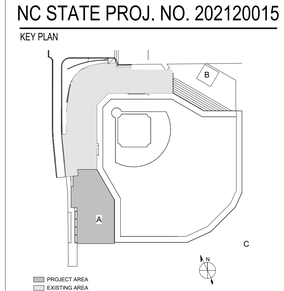
Tel: 919-460-6700 Fax: 919-460-6733

CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. ARCHITECTURAL CORP. 52711 KENTWICKLEY, NC RALEIGH, NC
JASON C. KOLANO REGISTERED ARCHITECT 11036 NORTH CAROLINA CHARLOTTE, NC
9/3/2024

REVISIONS

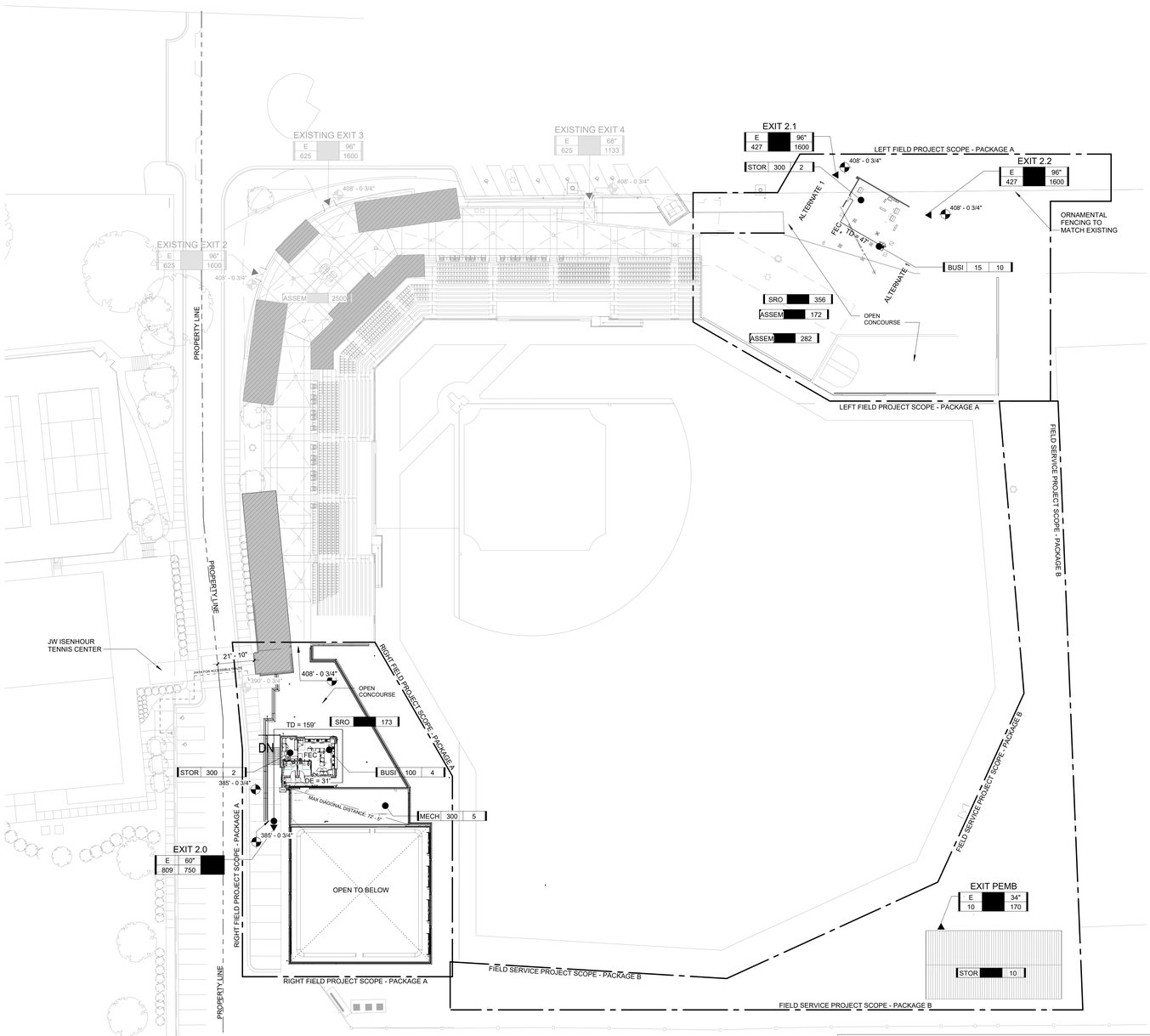
NO.	BY	DESCRIPTION	DATE
	EC	ISSUE FOR BID	09/03/2024

NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY CB, GW DATE 09/03/2024
PROJECT NO. 20220400 SCALE As indicated
DRAWING NAME
BUILDING CODE SUMMARY - RIGHT FIELD

FLOOR/SECTION PHASE DRAWING NO.
BID G0.0A



1 OVERALL LEVEL 2 LIFE SAFETY PLAN
SCALE: 1" = 30'-0"

LS - BUILDING TOTAL OCCUPANT LOADS ALL LEVELS			
FUNCTION OF SPACE	AREA (SF)	OCCUPANT LOAD FACTOR (SF / OCC)	OCCUPANT LOAD
LEVEL 1			
ASSEMBLY	1573	50	32
ASSEMBLY	1383	50	28
EXERCISE ROOM	7712	50	154
LOCKER RM	236	50	11
STORAGE/MECH	450	300	2
STORAGE/MECH	128	300	1
STORAGE/MECH	53	300	1
	11535		229
LEVEL 2			
ASSEMBLY	1706	SEE TO 2018 NCSBC SECTION 1029.6.3	282
ASSEMBLY	924		172
ASSEMBLY - EXISTING	24966		2500
ASSEMBLY SRO	864	5	173
ASSEMBLY SRO	1781	5	356
BUSINESS	1185	15	10
BUSINESS	397	100	4
STORAGE/MECH	1497	300	5
STORAGE/MECH	120	300	2
STORAGE/MECH	518	300	2
	33958		3506
GRAND TOTAL	45493		3735

LS - LEVEL 2 - RIGHT/LEFT FIELD EXIT ELEMENTS									
EXIT #	DOOR CLEAR WIDTH (IN)	STAIR CLEAR WIDTH (IN)	DOOR EGRESS WIDTH FACTOR (IN / OCC)	STAIR EGRESS WIDTH FACTOR (IN / OCC)	DOOR CAPACITY (OCCUPANTS)	STAIR CAPACITY (OCCUPANTS)	LIMITING CAPACITY (OCCUPANTS)	OCCUPANTS USING EXIT	SPARE EXIT CAPACITY
EXISTING EXIT 2	96"	0"	0.06	0.06	1600	0	1600	625	975
EXISTING EXIT 3	96"	0"	0.06	0.06	1600	0	1600	625	975
EXISTING EXIT 4	68"	0"	0.06	0.3	1133	0	1133	625	508
EXIT 2.0	79"	60"	0.06	0.08	1316	750	750	809	-59
EXIT 2.1	96"	0"	0.06	0.3	1600	0	1600	427	1173
EXIT 2.2	96"	0"	0.06	0.3	1600	0	1600	427	1173
Grand total							8283	3538	4745

EWING COLE
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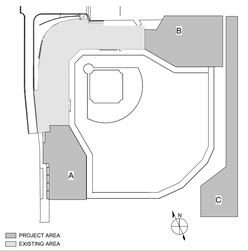
CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. ARCHITECTURE PLANNING INTERIORS LANDSCAPE ARCHITECTURE RALEIGH, NC 52711

JASON C. KOLO REGISTERED LANDSCAPE ARCHITECT 11036 NORTH CAROLINA CHARLOTTE, NC 9/3/2024

REVISIONS

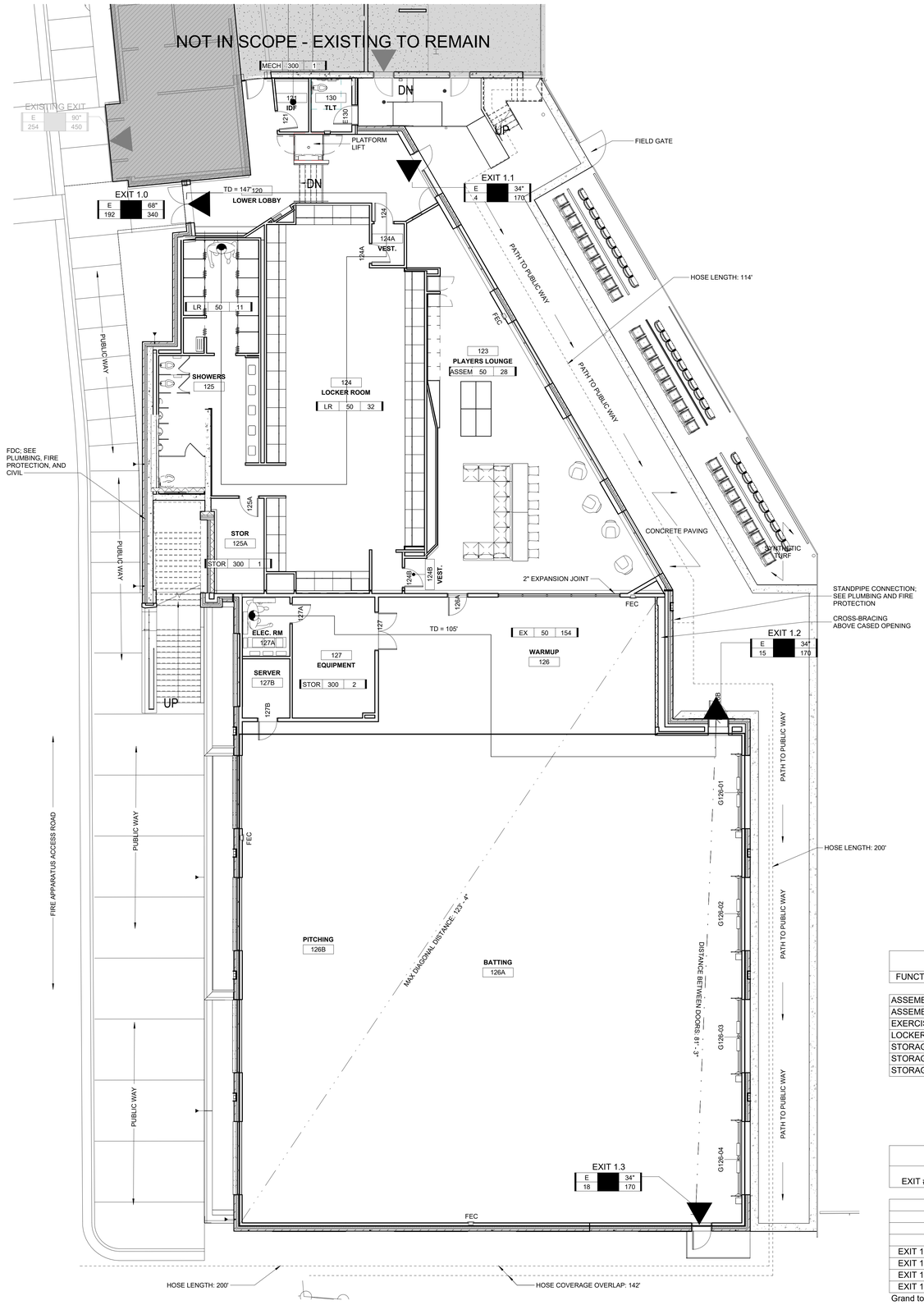
NO.	BY	DESCRIPTION	DATE
	EC	ISSUE FOR BID	09/03/2024

NC STATE UNIVERSITY

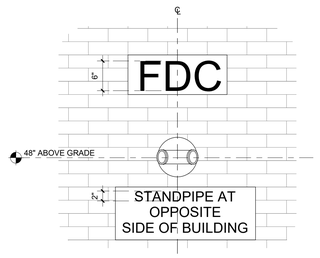
DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

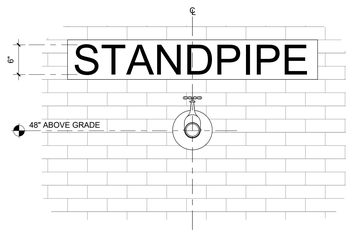
DRAWN BY CB,GW DATE 09/03/2024
PROJECT NO. 20220400 SCALE 1" = 30'-0"
DRAWING NAME
OVERALL LIFE SAFETY PLAN

FLOOR/SECTION PHASE DRAWING NO.
BID LS1.00



1 LEVEL 1 LIFE SAFETY PLAN - RIGHT FIELD
SCALE: 1/8" = 1'-0"





2 ELEVATION - FIRE PROTECTION CONNECTIONS
SCALE: 1" = 1'-0"

LS - LEVEL 1 - OCCUPANT LOAD			
FUNCTION OF SPACE	AREA (SF)	OCCUPANT LOAD FACTOR (SF / OCC)	OCCUPANT LOAD
ASSEMBLY	1573	50	32
ASSEMBLY	1383	50	28
EXERCISE ROOM	7712	50	154
LOCKER RM	236	50	11
STORAGE/MECH	450	300	2
STORAGE/MECH	128	300	1
STORAGE/MECH	53	300	1
	11535		229

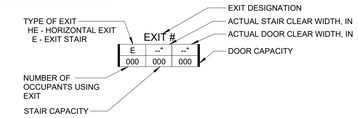
LS - LEVEL 1 - EXIT ELEMENTS									
EXIT #	DOOR CLEAR WIDTH (IN)	STAIR CLEAR WIDTH (IN)	DOOR EGRESS WIDTH FACTOR (IN / OCC)	STAIR EGRESS WIDTH FACTOR (IN / OCC)	DOOR CAPACITY (OCCUPANTS)	STAIR CAPACITY (OCCUPANTS)	LIMITING CAPACITY (OCCUPANTS)	OCCUPANTS USING EXIT	SPARE EXIT CAPACITY
EXIT 1.0	68"	0"	0.2	0.3	340	0	340	192	148
EXIT 1.1	34"	0"	0.2	0.3	170	0	170	4	166
EXIT 1.2	34"	0"	0.2	0.3	170	0	170	15	155
EXIT 1.3	34"	0"	0.2	0.3	170	0	170	18	152
Grand total							850	229	621

LIFE SAFETY PLAN NOTES

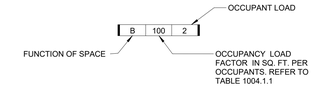
1. REFER TO SHEET LS0.1 FOR DETAILED EGRESS, ACCESSIBILITY, AND CODE SUMMARY.
2. THE PROVIDED SHEET NOTES AND GRAPHIC TRAVEL DISTANCE DEPICTIONS ARE NOTE ALL INCLUSIVE AND ARE TO BE USED AS A GUIDE IN DETERMINING CODE COMPLIANCE. DRAWING NOTES ARE PROVIDED FOR ITEMS THAT ARE AN EXCEPTION OR MAY NOT APPEAR CLEAR WITHIN PLANS.
3. FIRE RESISTANCE RATINGS ARE SHOWN GRAPHICALLY. REFER TO ARCHITECTURAL PLANS AND DETAILS FOR SPECIFIC UL ASSEMBLIES FOR FIRE RESISTIVE CONSTRUCTION.

LIFE SAFETY LEGEND

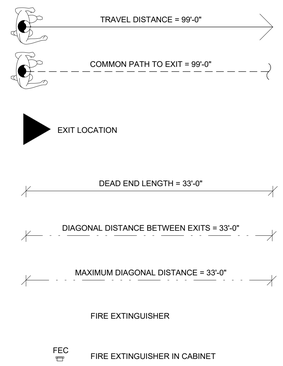
EXIT STAIR SYMBOL:



OCCUPANCY LOAD SYMBOL:

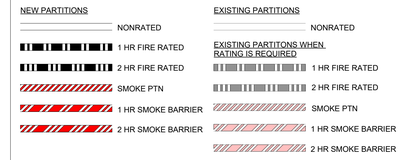


ADDITIONAL LIFE SAFETY SYMBOLS:



WALL RATING LEGEND

1. SEE FIN SCHED FOR APPLIED FIN SUCH AS CT, VINYL FABRIC, PANELING, ETC.
2. FIRE RATED PTN'S ARE IDENTIFIED BY KEY & POCHE AS FOLLOWS:



EWING COLE
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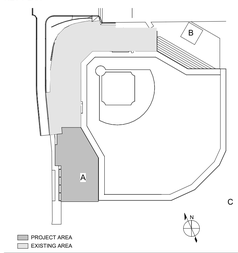
Tel: 919-460-6700 Fax: 919-460-6733

CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. ARCHITECTURE / INTERIORS / PLANNING KENTMORE AVE RALEIGH, NC 52711

JASON C. KOLLMO REGISTERED ARCHITECT 11036 NORTH CAROLINA CHARLOTTE, NC
9/3/2024

REVISIONS

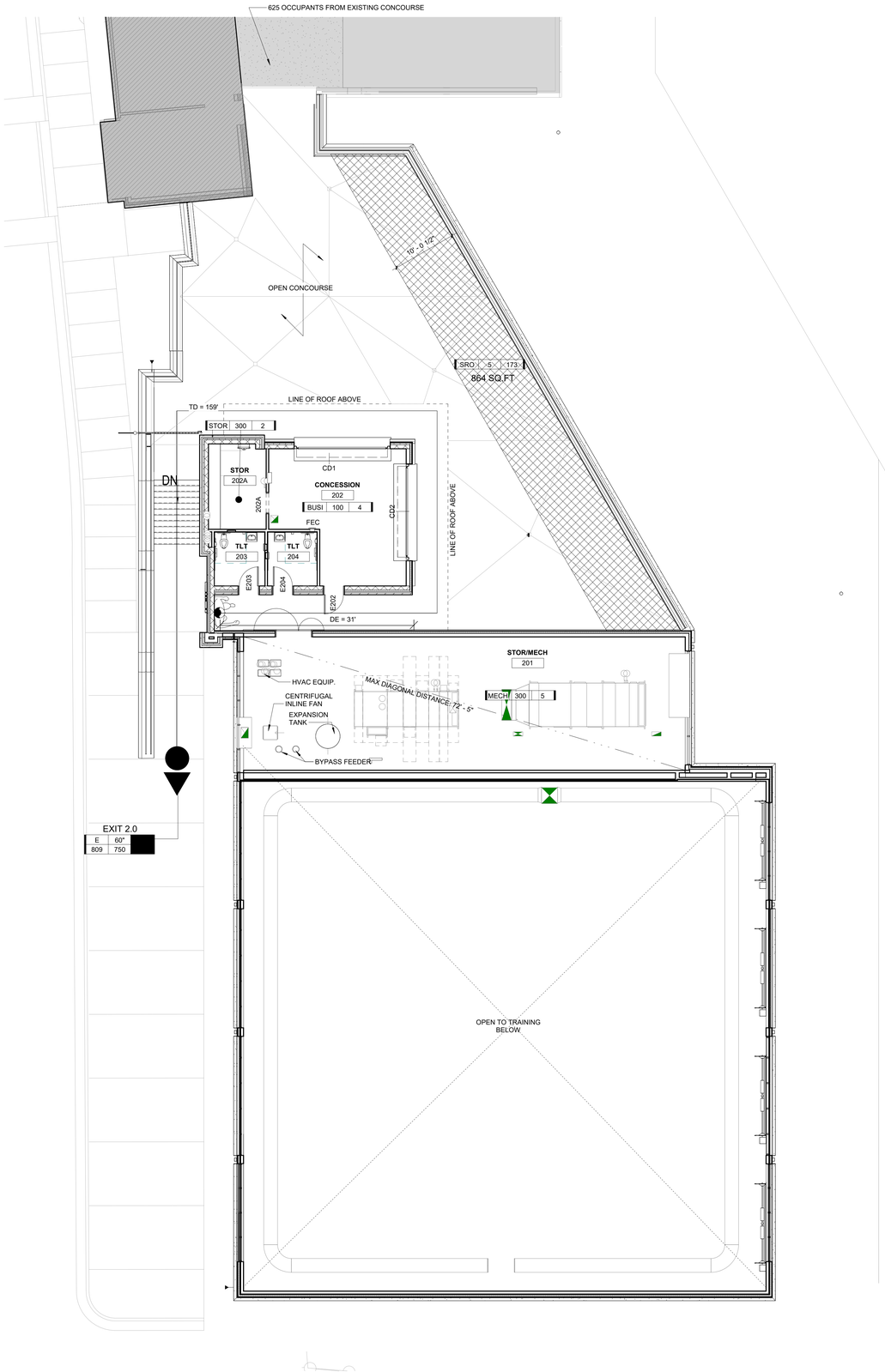
NO.	BY	DESCRIPTION	DATE
1	EC	ISSUE FOR BID	09/03/2024

NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY AC, CB, GW
DATE 09/03/2024
PROJECT NO. 20220400
SCALE As indicated
DRAWING NAME
LEVEL 1 LIFE SAFETY PLAN - RIGHT FIELD

FLOOR/SECTION PHASE
BID
DRAWING NO.
LS1.1A



1 LEVEL 2 LIFE SAFETY PLAN - RIGHT FIELD
SCALE: 1/8" = 1'-0"

LS - LEVEL 2 - RIGHT FIELD - OCCUPANT LOAD			
OCCUPANCY TYPE	AREA (SF)	OCCUPANT LOAD FACTOR (SF / OCC)	OCCUPANT LOAD
STORAGE/MECH	1497	300	5
BUSINESS	397	100	4
STORAGE/MECH	120	300	2
ASSEMBLY SRO	864	5	173
	2877		184

+625 OCCUPANTS FROM EXISTING CONCOURE

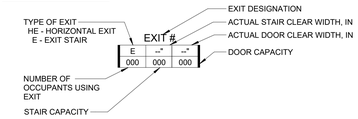
LS - LEVEL 2 - RIGHT FIELD - EXIT ELEMENTS									
EXIT #	DOOR CLEAR WIDTH (IN)	STAIR CLEAR WIDTH (IN)	DOOR EGRESS WIDTH FACTOR (IN / OCC)	STAIR EGRESS WIDTH FACTOR (IN / OCC)	DOOR CAPACITY (OCCUPANTS)	STAIR CAPACITY (OCCUPANTS)	LIMITING CAPACITY (OCCUPANTS)	OCCUPANTS USING EXIT	SPARE EXIT CAPACITY
EXIT 2.0	79"	60"	0.06	0.08	1316	750	750	809	-59
Grand total							750	809	-59

LIFE SAFETY PLAN NOTES

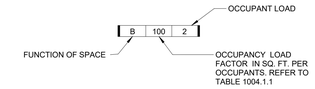
1. REFER TO SHEET LS0.1 FOR DETAILED EGRESS, ACCESSIBILITY, AND CODE SUMMARY.
2. THE PROVIDED SHEET NOTES AND GRAPHIC TRAVEL DISTANCE DEPICTIONS ARE NOTE ALL INCLUSIVE AND ARE TO BE USED AS A GUIDE IN DETERMINING CODE COMPLIANCE. DRAWING NOTES ARE PROVIDED FOR ITEMS THAT ARE AN EXCEPTION OR MAY NOT APPEAR CLEAR WITHIN PLANS.
3. FIRE RESISTANCE RATINGS ARE SHOWN GRAPHICALLY. REFER TO ARCHITECTURAL PLANS AND DETAILS FOR SPECIFIC UL ASSEMBLIES FOR FIRE RESISTIVE CONSTRUCTION.

LIFE SAFETY LEGEND

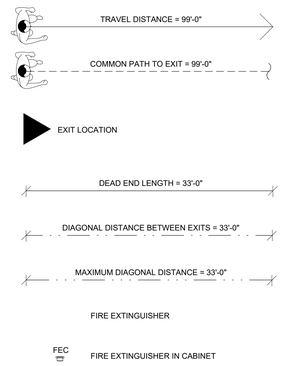
EXIT STAIR SYMBOL:



OCCUPANCY LOAD SYMBOL:



ADDITIONAL LIFE SAFETY SYMBOLS:



WALL RATING LEGEND

1. SEE FIN SCHED FOR APPLIED FIN SUCH AS CT, VINYL FABRIC, PANELING, ETC.
2. FIRE RATED PTN'S ARE IDENTIFIED BY KEY & POCHE AS FOLLOWS:

NEW PARTITIONS	EXISTING PARTITIONS
NONRATED	NONRATED
1 HR FIRE RATED	EXISTING PARTITONS WHEN RATING IS REQUIRED
2 HR FIRE RATED	1 HR FIRE RATED
SMOKE PTN	2 HR FIRE RATED
1 HR SMOKE BARRIER	SMOKE PTN
2 HR SMOKE BARRIER	1 HR SMOKE BARRIER
	2 HR SMOKE BARRIER

EWING COLE
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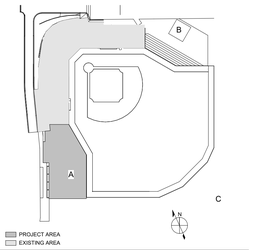
Tel: 919-460-6700 Fax: 919-460-6733

CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. PROFESSIONAL CORPORATION 52711 LICENSED ARCHITECT RALEIGH, NC

JASON C. KOLANKO SEAL 11036 NORTH CAROLINA CHARLOTTE, NC

7/3/2024

REVISIONS

NO.	BY	DESCRIPTION	DATE
	EC	ISSUE FOR BID	09/03/2024

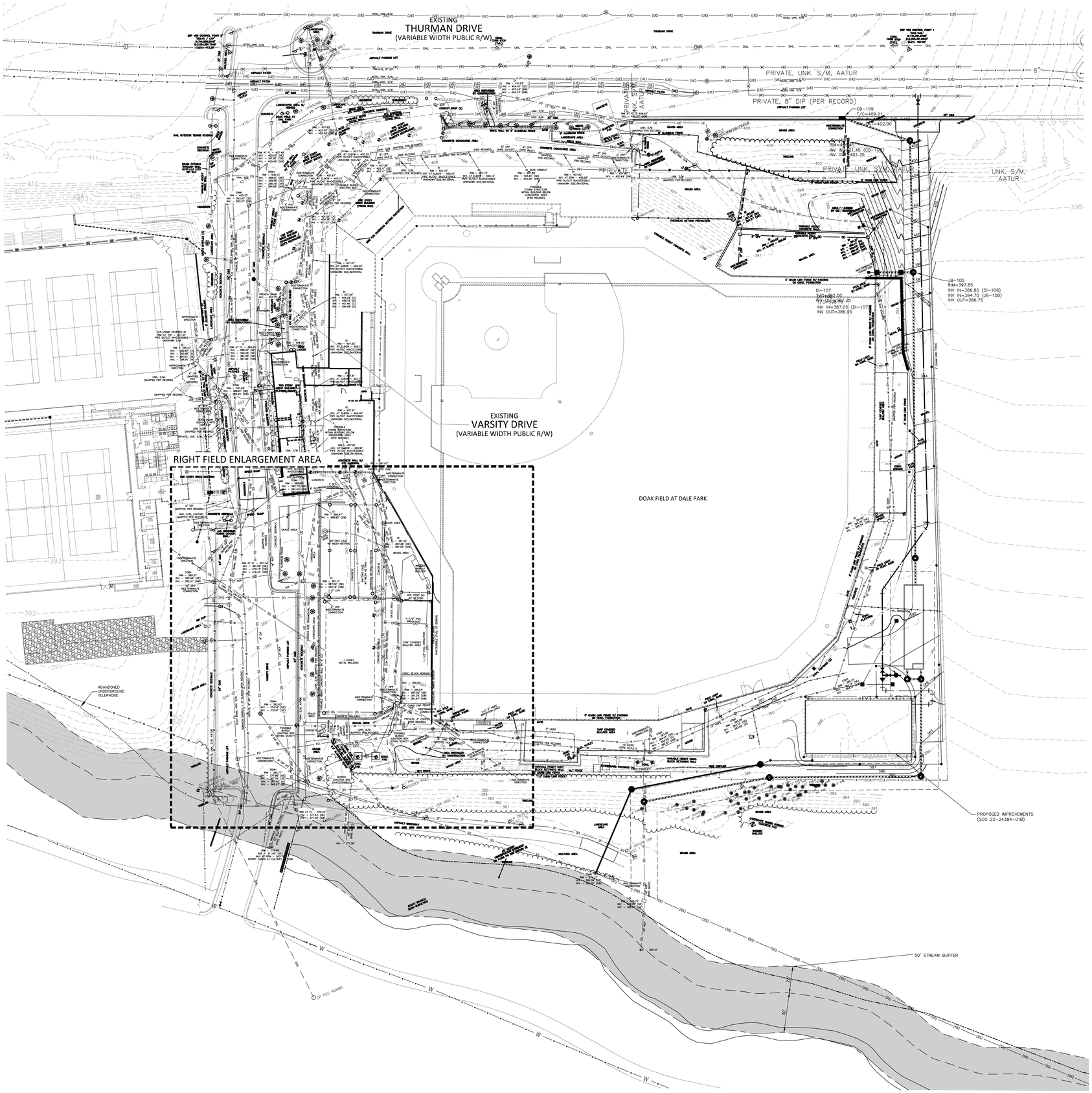
NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY AC, CB, GW. DATE 09/03/2024
PROJECT NO. 20220400 SCALE 1/8" = 1'-0"
DRAWING NAME

LEVEL 2 LIFE SAFETY PLAN - RIGHT FIELD

FLOOR/SECTION PHASE DRAWING NO.
BID LS1.2.A



GENERAL NOTES:

1. THE PROJECT SITE IS NOT LOCATED IN ANY SPECIAL FLOOD HAZARD AREAS, AS SHOWN ON FIRM MAP NUMBER 3720079400K DATED JULY 19, 2022.
2. EXISTING CONDITIONS SURVEY PROVIDED BY ESP ASSOCIATES, INC DATED MARCH 24, 2023.
3. THIS PLAN INCLUDES DESIGNS FROM SCO PROJECT NUMBER 22-24384-01B

LEGEND

- EXISTING IRON PIPE
- IRON PIPE SET
- CALCULATED POINT
- BORE HOLE
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- TELEPHONE PEDESTAL
- TELEPHONE MANHOLE
- ELECTRIC BOX
- LIGHT POLE
- POWER POLE
- GUY WIRE
- CURB INLET
- STORM DRAINAGE MANHOLE
- YARD INLET
- FIBER OPTIC MARKER
- FIBER OPTIC VAULT
- SIGN
- BOLLARD
- SD — STORM DRAIN PIPE
- OU — OVERHEAD UTILITY LINES
- W — WATER LINE
- SS — SANITARY SEWER LINE
- T — TELEPHONE LINE
- G — GAS LINE
- UE — UNDERGROUND ELECTRIC
- UT — UNDERGROUND TELEPHONE
- X—X — FENCE LINE
- TREE LINE
- GUARDRAIL

GRAPHIC SCALE
0 15 30 60
1 inch = 30 ft.

EWING COLE

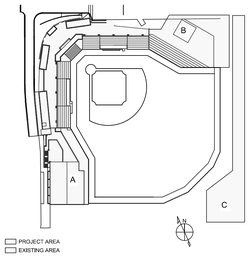
8208 Brownleigh Drive, Suite 200
Raleigh, NC 27617
Tel: 919-460-6700 Fax: 919-460-6733

CONSULTANTS

MCADAMS
The John R. McAdams Company, Inc.
621 Hillsborough Street
Suite 500
Raleigh, NC 27603
phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187
www.mcadamsco.com

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



REVISIONS

NO.	BY	DESCRIPTION	DATE
	EC	ISSUE TO BID	09/03/2024

NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT

1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	AO	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	1" = 30'

DRAWING NAME

EXISTING CONDITIONS

FLOOR/SECTION	PHASE	DRAWING NO.
	BID	C1.00

M:\Projects\NCSU\20220400\04-Production\Engineering\Site Plan-Construction Drawings\Current Drawings\Field Improvements\NCSU20004x-XS1.dwg, 8/29/2024 11:54:10 AM, Alexis Owens

DOAK FIELD AT DALE PARK

LEGEND

- EXISTING IRON PIPE
- IRON PIPE SET
- CALCULATED POINT
- BORE HOLE
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- TELEPHONE PEDESTAL
- TELEPHONE MANHOLE
- ELECTRIC BOX
- LIGHT POLE
- POWER POLE
- GUY WIRE
- CURB INLET
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- YARD INLET
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- OU — OVERHEAD UTILITY LINES
- W — WATER LINE
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- T — TELEPHONE LINE
- G — GAS LINE
- UE — UNDERGROUND ELECTRIC
- UT — UNDERGROUND TELEPHONE
- X — X — FENCE LINE
- TREE LINE
- GUARDRAIL

EWING COLE

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CONSULTANTS

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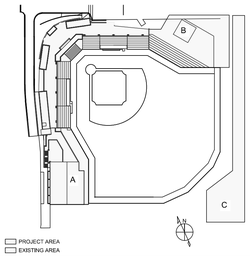
SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



NORTH CAROLINA PROFESSIONAL SEAL 046733 ENGINEER DEREK C. BLANKENSHIP

REVISIONS

NO.	BY	DESCRIPTION	DATE
	EC	ISSUE TO BID	09/03/2024

NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT

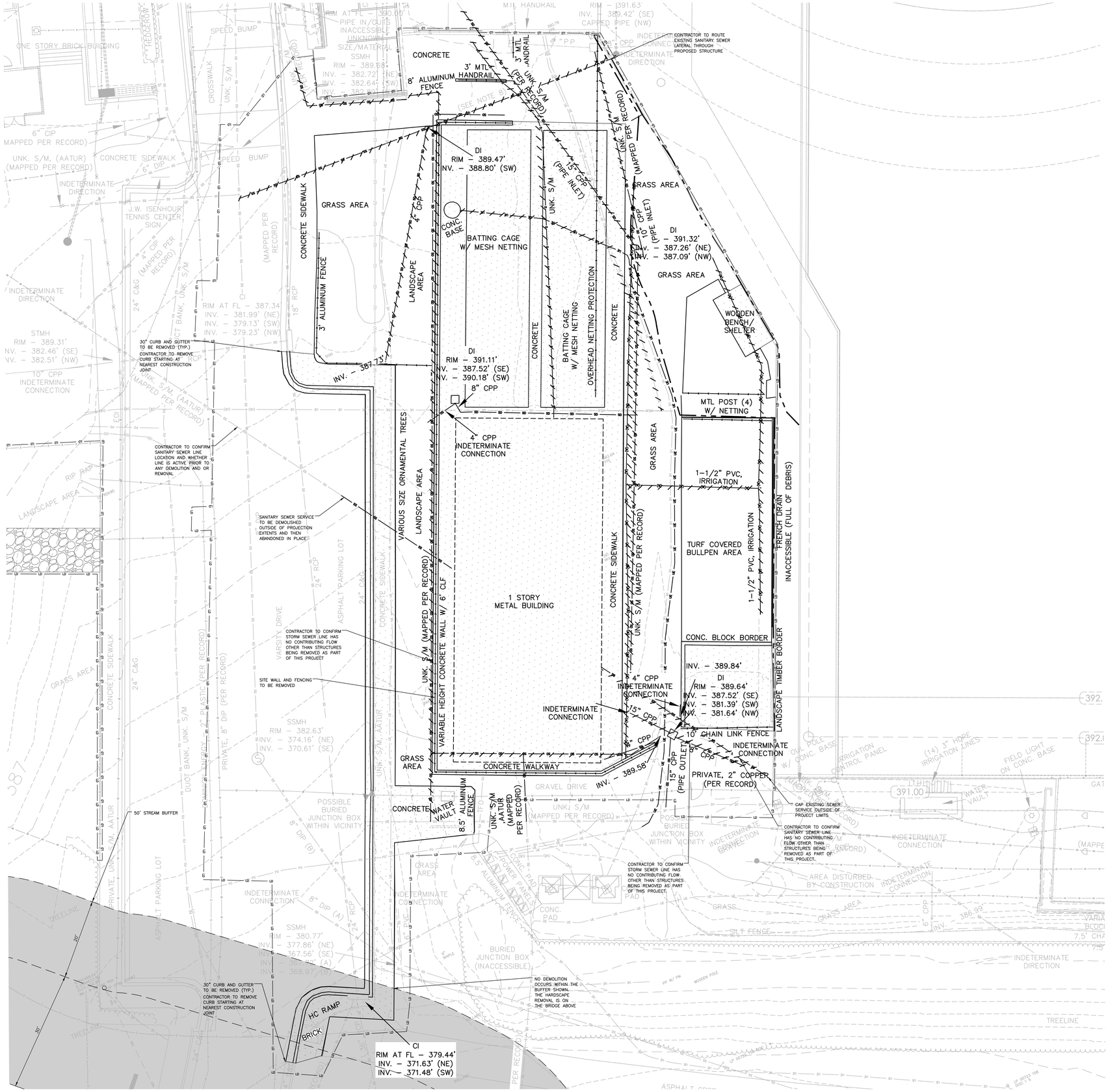
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	DCB	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	1" = 10'

DRAWING NAME

EXISTING CONDITIONS RIGHT FIELD ENLARGEMENT

FLOOR/SECTION PHASE	DRAWING NO.
BID	C1.02



DEMOLITION LEGEND

TREE	TREE OR OTHER VEGETATION TO BE REMOVED
	UNDERGROUND UTILITY TO BE REMOVED
	AREA TO BE REMOVED (SIDEWALK, CURB AND GUTTER, STRUCTURES, ASPHALT, CONCRETE PAVING, ETC.)

NOTE: SEE PLAN FOR DETAILED DEMOLITION PROCEDURES, SEQUENCING AND SPECIFICATIONS.

DEMOLITION NOTES:

1. THE INFORMATION SHOWN WAS TAKEN FROM DESIGN DRAWINGS AND FIELD SURVEY WHEREVER POSSIBLE. ANY DISCREPANCY IN THIS PLAN AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE ENGINEER PRIOR TO START OF CONSTRUCTION. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL SETBACKS, EASEMENTS, AND DIMENSIONS SHOWN HEREON BEFORE BEGINNING CONSTRUCTION.
2. THE LOCATIONS OF ALL UTILITIES SHOWN ON THIS PLAN ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UTILITIES WITH THE UTILITY OWNERS PRIOR TO COMMENCEMENT OF CONSTRUCTION
3. ALL DEMOLITION MATERIAL WILL BE REMOVED FROM THE SITE AND DISPOSED OF IN A PROPER LOCATION AND METHOD AS DESIGNATED BY THE LOCAL AUTHORITIES.CONTRACTOR TO COORDINATE REMOVAL OF ALL EQUIPMENT LOCATED WITHIN BATTING CAGES AND OTHER FACILITIES WITH THE OWNER PRIOR TO DEMOLITION.
4. CONTRACTOR SHALL NOTIFY NC811 (811 OR 800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR TO CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
5. CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONSTRUCTION ACTIVITIES WITH THE APPROPRIATE UTILITY COMPANIES FOR ANY REQUIRED RELOCATION (I.E. POWER POLES, TELEPHONE PEDESTALS, WATER METERS, ETC.).
6. THE CONTRACTOR SHALL, AT ALL TIMES, KEEP THE PREMISES AND ADJACENT ROADWAYS FREE FROM ACCUMULATIONS OF WASTE MATERIALS OR RUBBISH CAUSED BY HIM, HIS EMPLOYEES OR HIS WORK. ALL DEBRIS SHALL BE REMOVED FROM THE PROJECT SITE ON A DAILY BASIS.
7. NO BUILDINGS OR STRUCTURES OWNED BY THE STATE OF NORTH CAROLINA EXCEPT HIGHWAYS, BRIDGES AND RAILROADS MAY BE DEMOLISHED OR OTHERWISE DISPOSED OF UNLESS AND UNTIL AUTHORITY FOR SUCH DISPOSITION HAS BEEN APPROVED BY THE COUNCIL OF STATE AND GIVEN IN WRITING BY THE DEPARTMENT OF ADMINISTRATION, STATE PROPERTY OFFICE. ALL BUILDINGS TO BE DEMOLISHED SHALL BE SURVEYED FOR ASBESTOS CONTAINING MATERIALS OR OTHER HAZARDOUS MATERIALS THAT SHALL BE PROPERLY REMOVED IN ACCORDANCE WITH ENVIRONMENTAL REGULATIONS AND LEGALLY DISPOSED OF PRIOR TO DEMOLITION.

GENERAL NOTES:

1. OWNER RESERVES RIGHT TO ADJUST SITE IMPROVEMENTS AND MODIFY BUILDING FOOTPRINTS FROM THOSE SHOWN ON THIS PLAN.
2. ALL DIMENSIONS, GRADES AND UTILITIES SHOWN ON THE PLANS SHALL BE FIELD-VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
3. PRIOR TO BEGINNING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL SCHEDULE AND ATTEND A PRECONSTRUCTION CONFERENCE WITH THE CITY OF RALEIGH PUBLIC WORKS, ENGINEERING INSPECTIONS DEPARTMENT (919) 996-6824, AND A REPRESENTATIVE OF THE ENGINEER AND OWNER.
4. CONSTRUCTION, MAINTENANCE AND REMOVAL OF ALL EROSION CONTROL DEVICES ARE THE RESPONSIBILITY OF THE SITE CONTRACTOR, AFTER PERMISSION BY EROSION CONTROL INSPECTOR.
5. EXISTING UTILITIES AND STRUCTURES SHOWN, BOTH UNDERGROUND AND ABOVE GROUND, ARE BASED ON A FIELD SURVEY AND THE BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BEGINNING RELATED CONSTRUCTION. ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE PLANS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE AND ENGINEER IMMEDIATELY.
6. SOIL UNDER BUILDINGS, PAVED AREAS AND WITHIN SLOPES GREATER THAN 3:1 (H:V) SHALL BE APPROVED, PLACED AND COMPACTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER. THESE SOILS SHALL BE COMPACTED TO THE STANDARD PROCTOR MAXIMUM DRY DENSITY UNLESS OTHERWISE RECOMMENDED BY THE GEOTECHNICAL ENGINEER.

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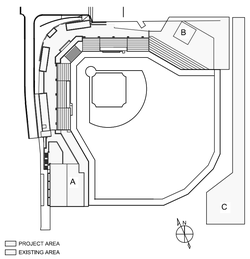
SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



NORTH CAROLINA PROFESSIONAL SEAL 046733 ENGINEER DEREK C. BLANCHARD

REVISIONS

NO.	BY	DESCRIPTION	DATE
	EC	ISSUE TO BID	09/03/2024

NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT

1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	DCB	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	1" = 10'

DRAWING NAME

DEMOLITION PLAN RIGHT FIELD ENLARGEMENT

FLOOR/SECTION PHASE	DRAWING NO.
BID	C1.12

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SITE LEGEND

- SIGNAGE
- YARD LIGHTS
- LIGHT POLE
- POWER POLE
- TRAFFIC DIRECTIONAL ARROW
- ACC / VAN — ACCESSIBLE PARKING STALL
- VAN ACCESSIBLE PARKING STALL
- XX — PARKING SPACE COUNT
- ACCESSIBLE RAMPS (TYPE A, TYPE B, TYPE C)
- ACCESSIBLE ROUTE
- PHASE LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- LOT LINE
- EASEMENT LINE
- CENTERLINE
- HEAVY DUTY ASPHALT PAVEMENT

SITE PLAN NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST CITY OF RALEIGH AND/OR NCDOT STANDARDS AND SPECIFICATIONS.
2. ALL DIMENSIONS SHOWN ON SITE PLAN ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
3. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH. EXCAVATION EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRES THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER, PROVIDED BY CONTRACTOR RESPONSIBLE FOR EXCAVATION.
4. EQUIPMENT AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED PROVIDED APPROVAL HAS BEEN OBTAINED FROM THE OWNER IN WRITING PRIOR TO ORDERING OR INSTALLATION. THE CONTRACTOR SHALL WAIVE ANY CLAIM FOR ADDITIONAL COST RELATED TO THE SUBSTITUTION OF ALTERNATE EQUIPMENT.
5. CONTRACTOR SHALL MAINTAIN AN "AS-BUILT" SET OF DRAWINGS TO RECORD THE EXACT LOCATION OF ALL PIPING PRIOR TO CONCEALMENT. DRAWINGS SHALL BE GIVEN TO THE ENGINEER UPON COMPLETION OF THE PROJECT WITH A COPY OF THE TRANSMITTAL LETTER TO THE OWNER.
6. EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED/RESTORED TO THEIR ORIGINAL CONDITION OR TO THE SATISFACTION OF THE OWNER BY THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE.
7. THE CONTRACTOR SHALL NOTE THAT THE DRAWINGS MAY NOT SHOW EVERY OFFSET, TRANSITION, FITTING, ETC. THAT MAY BE REQUIRED. THE CONTRACTOR SHALL INSTALL SUCH STANDARD APPURTENANCES AS REQUIRED TO CLOSELY FOLLOW THE GRADES AND ALIGNMENTS DEPICTED ON THE PLANS.
8. CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR TO CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NORTH CAROLINA ONE CALL". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
9. CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONSTRUCTION ACTIVITIES WITH THE APPROPRIATE UTILITY COMPANIES FOR ANY REQUIRED RELOCATION (I.E. POWER POLES, TELEPHONE PEDESTALS, WATER METERS, ETC.).
10. PRIOR TO STARTING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION CONFERENCE WITH CITY OF RALEIGH STORMWATER AND EROSION CONTROL DEPARTMENT FOR EROSION CONTROL AND ENGINEERING INSPECTIONS PRIOR TO ANY WATER OR SEWER ABANDONMENT, REMOVAL OR INSTALLATIONS.
11. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
12. THE MINIMUM CORNER CLEARANCE FOR A DRIVEWAY FROM THE CURB LINE OF INTERSECTING STREETS SHALL BE AT LEAST 20 FEET FROM THE POINT OF TANGENCY OF THE CURB. NO DRIVEWAYS SHALL ENCROACH ON THIS MINIMUM CORNER CLEARANCE . RSDM SECTIONO6.5.2D.
13. WITHIN THE AREA OF A DEFINED SIGHT TRIANGLE, THERE SHALL BE NO SIGHT OBSTRUCTING OR PARTLY OBSTRUCTING WALL, FENCE, SIGH, FOLIAGE, BERMING OR PARKED VEHICLES BETWEEN THE HEIGHTS OF TWENTY-FOUR (24) INCHES AND EIGHT (8) FEET ABOVE THE CURB ELEVATION OR THE NEAREST TRAVELED WAY, IF NO CURBING EXISTS.

GENERAL NOTES:

1. OWNER RESERVES RIGHT TO ADJUST SITE IMPROVEMENTS AND MODIFY BUILDING FOOTPRINTS FROM THOSE SHOWN ON THIS PLAN.
2. ALL DIMENSIONS, GRADES AND UTILITIES SHOWN ON THE PLANS SHALL BE FIELD-VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
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4. CONSTRUCTION, MAINTENANCE AND REMOVAL OF ALL EROSION CONTROL DEVICES ARE THE RESPONSIBILITY OF THE SITE CONTRACTOR, AFTER PERMISSION BY EROSION CONTROL INSPECTOR.
5. EXISTING UTILITIES AND STRUCTURES SHOWN, BOTH UNDERGROUND AND ABOVE GROUND, ARE BASED ON A FIELD SURVEY AND THE BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BEGINNING RELATED CONSTRUCTION. ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE PLANS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE AND ENGINEER IMMEDIATELY.
6. SOIL UNDER BUILDINGS, PAVED AREAS AND WITHIN SLOPES GREATER THAN 3:1 (H:V) SHALL BE APPROVED, PLACED AND COMPACTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER. THESE SOILS SHALL BE COMPACTED TO THE STANDARD PROCTOR MAXIMUM DRY DENSITY UNLESS OTHERWISE RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
7. THE PROJECT SITE IS NOT LOCATED IN ANY SPECIAL FLOOD HAZARD AREAS, AS SHOWN ON FIRM MAP NUMBER 3720079400K DATED JULY 19, 2022.

GRAPHIC SCALE
0 5 10 20
1 inch = 10 ft.

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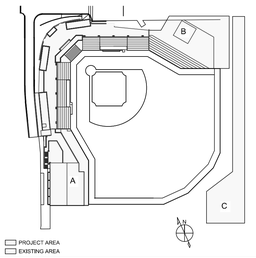
SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 046723 DEREK C. BLANCHARD

REVISIONS

NO.	BY	DESCRIPTION	DATE
	EC	ISSUE TO BID	09/03/2024

NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT

1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	DCB	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	1" = 10'

DRAWING NAME

SITE PLAN - RIGHT FIELD

FLOOR/SECTION PHASE: BID
DRAWING NO.: C2.02

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GRADING LEGEND

	FLARED END SECTION
	ENDWALL SECTION
	CATCH BASIN
	DROP INLET
	STORM SERVICE INLET
	STORM SERVICE ROOF–DRAIN
	JUNCTION BOX
	DRAINAGE FLOW ARROW
	LINE BREAK SYMBOL
250.50 / 250.00	TOP & BOTTOM CURB ELEVATIONS
TW=223.00 / BW=213.00	TOP OF WALL ELEVATION / BOTTOM OF WALL ELEVATION (NOTE: BOTTOM OF WALL IS GROUND ELEVATION NOT WALL FOUNDATION)
+ 250.60	SPOT ELEVATION
	STORM DRAINAGE
	STORM SERVICE LINE
RD RD RD	ROOF DRAIN, 8" ADS NON–PERFORATED TUBING OR EQUAL 1.0% MIN. SLOPE 3" MIN. COVER PVC SCHEDULE 40 IN TRAFFIC AREAS
TP TP TP	TREE PROTECTION FENCE
LD LD	LIMITS OF DISTURBANCE
	WOODED AREA
250	MAJOR CONTOUR
252	MINOR CONTOUR
250	EXISTING MAJOR CONTOUR
252	EXISTING MINOR CONTOUR
	EASEMENT LINE
	ACCESSIBLE PARKING AREA (2% MAX. SLOPE IN ALL DIRECTIONS)

DISTURBED AREA = 32,198 SF, 0.74 AC

STORM DRAINAGE NOTES:

1. ALL STORM DRAINAGE PIPES SHOWN ARE TO BE HDPE UNLESS NOTED OTHERWISE.
2. ALL STORM DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST CITY OF RALEIGH AND NCDOT STANDARDS.
3. ALL CONCRETE SHALL MEET A MINIMUM 3000 PSI COMPRESSIVE STRENGTH.
4. ALL PIPE IN STORM DRAIN STRUCTURES SHALL BE STRUCK EVEN WITH INSIDE WALL.
5. ALL BACKFILL SHALL BE NON-PLASTIC IN NATURE, FREE FROM ROOTS, VEGETATION MATTER, WASTE CONSTRUCTION MATERIAL OR OTHER OBJECTIONABLE MATERIAL. SAID MATERIAL SHALL BE CAPABLE OF BEING COMPACTED BY MECHANICAL MEANS AND SHALL HAVE NO TENDENCY TO FLOW OR BEHAVE IN A PLASTIC MANNER UNDER THE TAMPING BLOWS OR PROOF ROLLING.
6. MATERIALS DEEMED BY THE OWNER'S REPRESENTATIVE OR GEOTECHNICAL ENGINEER AS UNSUITABLE FOR BACKFILL PURPOSES SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL.
7. BACKFILLING OF TRENCHES SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PIPE IS LAID. THE FILL AROUND THE PIPE SHALL BE THOROUGHLY COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY OBTAINABLE WITH THE STANDARD PROCTOR TEST. THE TOP EIGHT (8) INCHES SHALL BE COMPACTED TO 100 PERCENT STANDARD PROCTOR.
8. UNDER NO CIRCUMSTANCES SHALL WATER BE ALLOWED TO RISE IN UNBACKFILLED TRENCHES AFTER PIPE HAS BEEN PLACED.

GENERAL NOTES:

1. OWNER RESERVES RIGHT TO ADJUST SITE IMPROVEMENTS AND MODIFY BUILDING FOOTPRINTS FROM THOSE SHOWN ON THIS PLAN.
2. ALL DIMENSIONS, GRADES AND UTILITIES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE OWNER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
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4. CONSTRUCTION, MAINTENANCE AND REMOVAL OF ALL EROSION CONTROL DEVICES ARE THE RESPONSIBILITY OF THE SITE CONTRACTOR, AFTER PERMISSION BY EROSION CONTROL INSPECTOR.
5. EXISTING UTILITIES AND STRUCTURES SHOWN, BOTH UNDERGROUND AND ABOVE GROUND, ARE BASED ON A FIELD SURVEY AND THE BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BEGINNING RELATED CONSTRUCTION. ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THE PLANS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE AND ENGINEER IMMEDIATELY.
6. SOIL UNDER BUILDINGS, PAVED AREAS AND WITHIN SLOPES GREATER THAN 3:1 (H:V) SHALL BE APPROVED, PLACED AND COMPACTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER. THESE SOILS SHALL BE COMPACTED TO THE STANDARD PROCTOR MAXIMUM DRY DENSITY UNLESS OTHERWISE RECOMMENDED BY THE GEOTECHNICAL ENGINEER.

EROSION CONTROL LEGEND

	SILT FENCE OUTLET
	INLET PROTECTION
	INLET PROTECTION FOR EXISTING STRUCTURES
	TEMPORARY SLOPE DRAIN
	FILTER BERM
	CHECK DAM
SF SF SF	SILT FENCE
TP TP TP	TREE PROTECTION FENCE
LD LD	LIMITS OF DISTURBANCE
	WOODED AREA
	DIVERSION DITCH
	CONSTRUCTION ENTRANCE/EXIT

GRAPHIC SCALE
0 5 10 20
1 inch = 10 ft.

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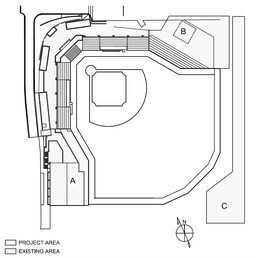
SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



REVISIONS

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NC STATE UNIVERSITY

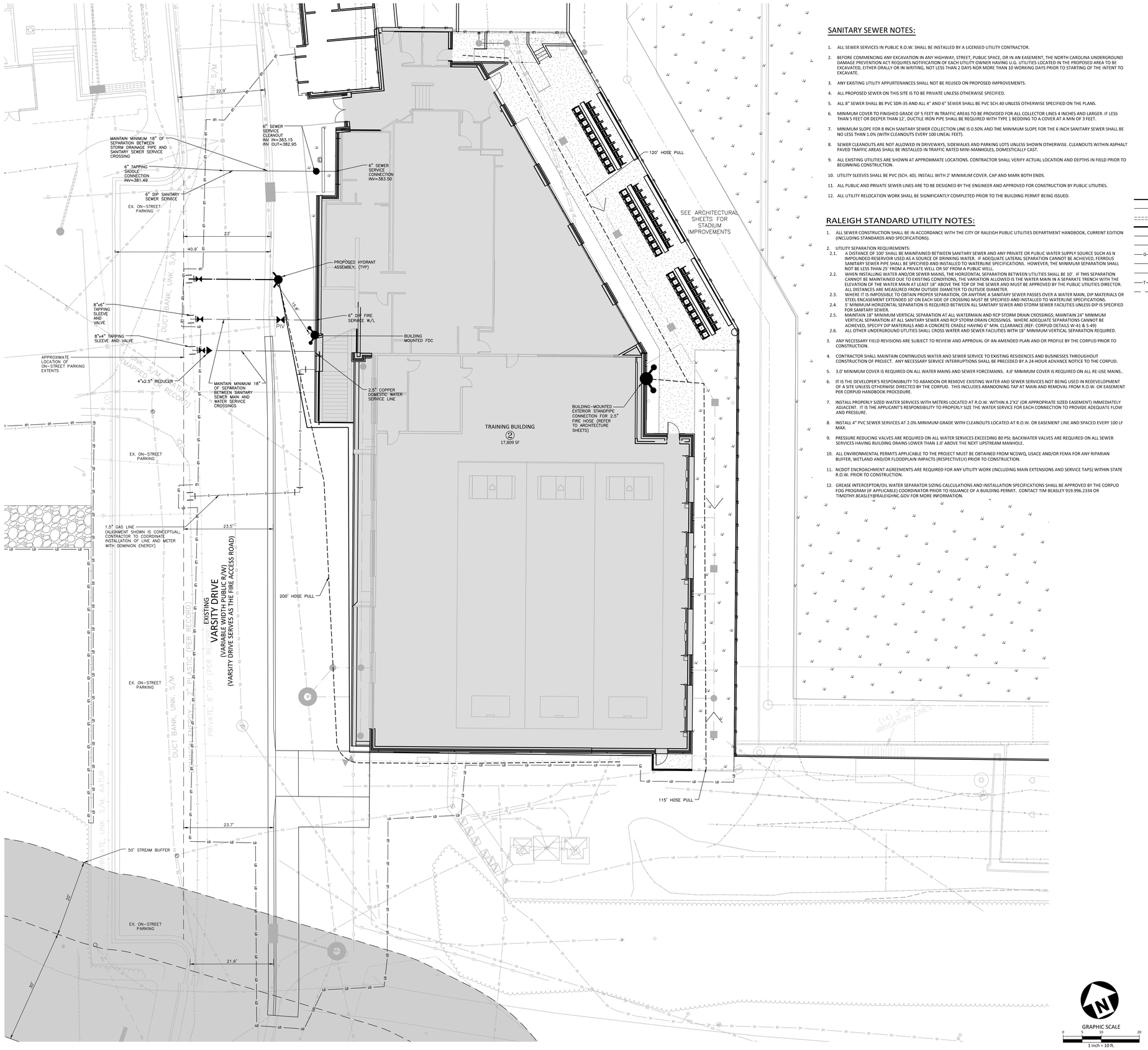
DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	DCB	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	1" = 10'

DRAWING NAME

GRADING, DRAINAGE, EROSION CONTROL PLAN - RIGHT FIELD

FLOOR/SECTION PHASE	DRAWING NO.
BID	C3.02



SANITARY SEWER NOTES:

1. ALL SEWER SERVICES IN PUBLIC R.O.W. SHALL BE INSTALLED BY A LICENSED UTILITY CONTRACTOR.
2. BEFORE COMMENCING ANY EXCAVATION IN ANY HIGHWAY, STREET, PUBLIC SPACE, OR IN AN EASEMENT, THE NORTH CAROLINA UNDERGROUND DAMAGE PREVENTION ACT REQUIRES NOTIFICATION OF EACH UTILITY OWNER HAVING U.G. UTILITIES LOCATED IN THE PROPOSED AREA TO BE EXCAVATED, EITHER ORALLY OR IN WRITING, NOT LESS THAN 2 DAYS NOR MORE THAN 10 WORKING DAYS PRIOR TO STARTING OF THE INTENT TO EXCAVATE.
3. ANY EXISTING UTILITY APPURTENANCES SHALL NOT BE REUSED ON PROPOSED IMPROVEMENTS.
4. ALL PROPOSED SEWER ON THIS SITE IS TO BE PRIVATE UNLESS OTHERWISE SPECIFIED.
5. ALL 8" SEWER SHALL BE PVC SDR-35 AND ALL 4" AND 6" SEWER SHALL BE PVC SCH.40 UNLESS OTHERWISE SPECIFIED ON THE PLANS.
6. MINIMUM COVER TO FINISHED GRADE OF 5 FEET IN TRAFFIC AREAS TO BE PROVIDED FOR ALL COLLECTOR LINES 4 INCHES AND LARGER. IF LESS THAN 5 FEET OR DEEPER THAN 12', DUCTILE IRON PIPE SHALL BE REQUIRED WITH TYPE 1 BEDDING TO A COVER AT A MIN OF 3 FEET.
7. MINIMUM SLOPE FOR 8 INCH SANITARY SEWER COLLECTION LINE IS 0.50% AND THE MINIMUM SLOPE FOR THE 6 INCH SANITARY SEWER SHALL BE NO LESS THAN 1.0% (WITH CLEANOUTS EVERY 100 LINEAL FEET).
8. SEWER CLEANOUTS ARE NOT ALLOWED IN DRIVEWAYS, SIDEWALKS AND PARKING LOTS UNLESS SHOWN OTHERWISE. CLEANOUTS WITHIN ASPHALT PAVED TRAFFIC AREAS SHALL BE INSTALLED IN TRAFFIC RATED MINI-MANHOLES, DOMESTICALLY CAST.
9. ALL EXISTING UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS. CONTRACTOR SHALL VERIFY ACTUAL LOCATION AND DEPTHS IN FIELD PRIOR TO BEGINNING CONSTRUCTION.
10. UTILITY SLEEVES SHALL BE PVC (SCH. 40). INSTALL WITH 2' MINIMUM COVER, CAP AND MARK BOTH ENDS.
11. ALL PUBLIC AND PRIVATE SEWER LINES ARE TO BE DESIGNED BY THE ENGINEER AND APPROVED FOR CONSTRUCTION BY PUBLIC UTILITIES.
12. ALL UTILITY RELOCATION WORK SHALL BE SIGNIFICANTLY COMPLETED PRIOR TO THE BUILDING PERMIT BEING ISSUED.

RALEIGH STANDARD UTILITY NOTES:

1. ALL SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RALEIGH PUBLIC UTILITIES DEPARTMENT HANDBOOK, CURRENT EDITION (INCLUDING STANDARDS AND SPECIFICATIONS).
2. UTILITY SEPARATION REQUIREMENTS:
   - 2.1. A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER AND ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS N IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED AND INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL.
   - 2.2. WHEN INSTALLING WATER AND/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER AND MUST BE APPROVED BY THE PUBLIC UTILITIES DIRECTOR. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER.
   - 2.3. WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATER MAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED 10' ON EACH SIDE OF CROSSING MUST BE SPECIFIED AND INSTALLED TO WATERLINE SPECIFICATIONS.
   - 2.4. 5' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER AND STORM SEWER FACILITIES UNLESS DIP IS SPECIFIED FOR SANITARY SEWER.
   - 2.5. MAINTAIN 18" MINIMUM VERTICAL SEPARATION AT ALL WATERMAIN AND RCP STORM DRAIN CROSSINGS; MAINTAIN 24" MINIMUM VERTICAL SEPARATION AT ALL SANITARY SEWER AND RCP STORM DRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS AND A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE (REF: CORPUD DETAILS W-41 & S-49)
   - 2.6. ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER AND SEWER FACILITIES WITH 18" MINIMUM VERTICAL SEPARATION REQUIRED.
3. ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW AND APPROVAL OF AN AMENDED PLAN AND OR PROFILE BY THE CORPUD PRIOR TO CONSTRUCTION.
4. CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER AND SEWER SERVICE TO EXISTING RESIDENCES AND BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24-HOUR ADVANCE NOTICE TO THE CORPUD.
5. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS AND SEWER FORCEMAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL RE-USE MAINS..
6. IT IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER AND SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE UNLESS OTHERWISE DIRECTED BY THE CORPUD. THIS INCLUDES ABANDONING TAP AT MAIN AND REMOVAL FROM R.O.W. OR EASEMENT PER CORPUD HANDBOOK PROCEDURE.
7. INSTALL PROPERLY SIZED WATER SERVICES WITH METERS LOCATED AT R.O.W. WITHIN A 2'X2' (OR APPROPRIATE SIZED EASEMENT) IMMEDIATELY ADJACENT. IT IS THE APPLICANT'S RESPONSIBILITY TO PROPERLY SIZE THE WATER SERVICE FOR EACH CONNECTION TO PROVIDE ADEQUATE FLOW AND PRESSURE.
8. INSTALL 4" PVC SEWER SERVICES AT 2.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT R.O.W. OR EASEMENT LINE AND SPACED EVERY 100 LF MAX.
9. PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI; BACKWATER VALVES ARE REQUIRED ON ALL SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0' ABOVE THE NEXT UPSTREAM MANHOLE.
10. ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDWQ, USACE AND/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND AND/OR FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO CONSTRUCTION.
11. NCDOT ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS AND SERVICE TAPS) WITHIN STATE R.O.W. PRIOR TO CONSTRUCTION.
12. GREASE INTERCEPTOR/OIL WATER SEPARATOR SIZING CALCULATIONS AND INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE CORPUD FOG PROGRAM (IF APPLICABLE) COORDINATOR PRIOR TO ISSUANCE OF A BUILDING PERMIT. CONTACT TIM BEASLEY 919.996.2334 OR TIMOTHY.BEASLEY@RALEIGHNC.GOV FOR MORE INFORMATION.

UTILITY LEGEND

- FIRE HYDRANT ASSEMBLY
- FIRE DEPARTMENT CONNECTION (FDC)
- WATER METER
- WATER VALVE
- POST INDICATOR VALVE
- VALVE IN MANHOLE
- METER & VAULT
- BACKFLOW PREVENTER
- REDUCER
- PLUG
- BLOW-OFF ASSEMBLY
- SANITARY SEWER MANHOLE
- SEWER CLEAN-OUT
- GREASE TRAP
- SEWER FLOW DIRECTION ARROW
- YARD LIGHTS
- LIGHT POLE
- POWER POLE
- LINE BREAK SYMBOL
- WATERLINE
- WATER SERVICE LINE
- UTILITY SLEEVE
- SANITARY SEWER
- SEWER SERVICE LINE
- FM FM — SEWER FORCE MAIN
- G G G G — GAS LINE
- OU OU — OVERHEAD UTILITY
- UE UE — UNDERGROUND ELECTRIC
- T T T T — TELEPHONE
- EASEMENT LINE

EWING COLE

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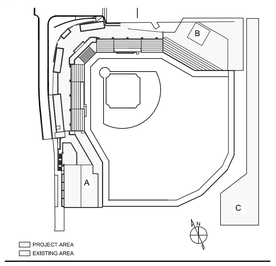
www.mcadamsco.com

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



REVISIONS

NO.	BY	DESCRIPTION	DATE
	EC	ISSUE TO BID	09/03/2024

NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	DCB	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	1" = 10'

DRAWING NAME

UTILITY PLAN - RIGHT FIELD

FLOOR/SECTION	PHASE	DRAWING NO.
	BID	C4.02

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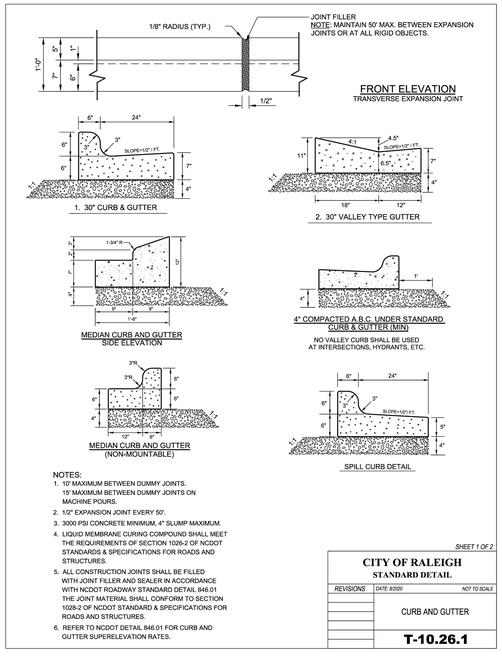
CITY OF RALEIGH
CURB RAMPS
GENERAL NOTES

1. CITY OF RALEIGH STANDARD CURB RAMPS HAVE BEEN DEVELOPED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA) AND PUBLIC RIGHT OF WAY ACCESS GUIDELINES (PROWAG).
2. CURB RAMPS SHALL BE PROVIDED AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. SIDEWALK ACCESS RAMPS SHALL BE LOCATED AS INDICATED IN THE DETAIL, HOWEVER, THE LOCATION MAY BE ADJUSTED IN COORDINATION WITH THE CITY OF RALEIGH WHERE EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC. AFFECT PLACEMENT.
3. DOUBLE WHEELCHAIR RAMPS ARE TO BE INSTALLED AT ALL PUBLIC STREET INTERSECTIONS WHERE SIDEWALK IS REQUIRED.
4. THE WALKING SURFACE SHALL BE SLIP RESISTANT. THE COLOR FOR THE DETECTABLE WARNING AREA SHALL BE YELLOW FOR CONTRAST.
5. NO SLOPE ON THE SIDEWALK ACCESS RAMP SHALL EXCEED 1"/FT (12:1) IN RELATIONSHIP TO THE GRADE OF THE STREET.
6. IN NO CASE SHALL THE WIDTH OF THE SIDEWALK ACCESS RAMP BE LESS THAN 48" ALL RAMPS SHALL BE INSTALLED THE SAME WIDTH AS THE SIDEWALK.
7. USE CLASS A (3000 PSI) CONCRETE WITH A SIDEWALK FINISH IN ORDER TO OBTAIN A ROUGH NONSKID SURFACE.
8. A 1/2" EXPANSION JOINT INSTALLED FULL DEPTH WILL BE REQUIRED WHERE THE CONCRETE SIDEWALK ACCESS RAMP JOINS THE CURB AND ALSO WHERE NEW CONCRETE ABUTS EXISTING CONCRETE.
9. CURB RAMPS SHOULD BE PLACED PARALLEL TO THE DIRECTION OF TRAVEL.

SHEET 8 OF 9

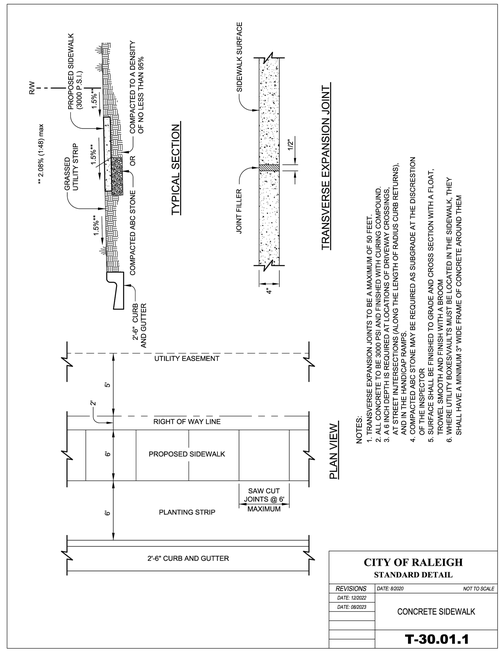
CITY OF RALEIGH STANDARD DETAIL		
REVISIONS	DATE: 8/2020	NOT TO SCALE
	CURB RAMP NOTES	
	T-20.01.8	



NOTES:
1. 10' MAXIMUM BETWEEN DUMMY JOINTS. 15' MAXIMUM BETWEEN DUMMY JOINTS ON MACHINE POURS.
2. 1/2" EXPANSION JOINT EVERY 50'.
3. 3000 PSI CONCRETE MINIMUM, 4" SLUMP MAXIMUM.
4. LIQUID MEMBRANE CURING COMPOUND SHALL MEET THE REQUIREMENTS OF SECTION 1026-2 OF NCDOT STANDARDS & SPECIFICATIONS FOR ROADS AND STRUCTURES.
5. ALL CONSTRUCTION JOINTS SHALL BE FILLED WITH JOINT FILLER AND SEALER IN ACCORDANCE WITH NCDOT ROADWAY STANDARD DETAIL 846.01 THE JOINT MATERIAL SHALL CONFORM TO SECTION 1028-2 OF NCDOT STANDARD & SPECIFICATIONS FOR ROADS AND STRUCTURES.
6. REFER TO NCDOT DETAIL 846.01 FOR CURB AND GUTTER SUPERELEVATION RATES.

SHEET 1 OF 2

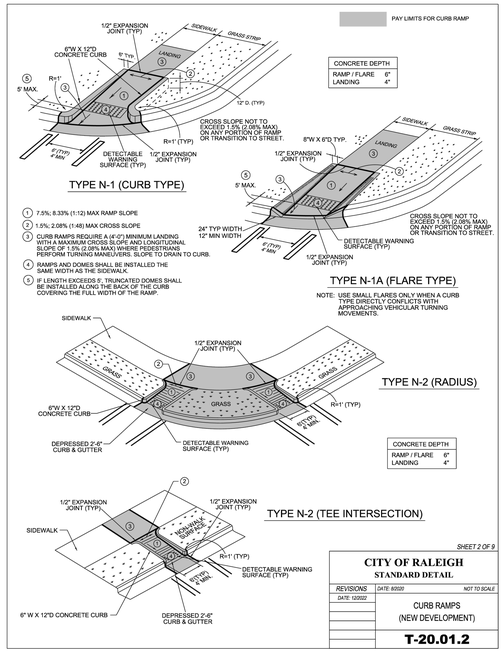
CITY OF RALEIGH STANDARD DETAIL		
REVISIONS	DATE: 8/2020	NOT TO SCALE
	CURB AND GUTTER	
	T-10.26.1	



NOTES:
1. TRANSVERSE EXPANSION JOINTS TO BE A MAXIMUM OF 50 FEET.
2. ALL CONCRETE TO BE 3000 PSI AND FINISHED WITH CURING COMPOUND.
3. A 6 INCH DEPTH IS REQUIRED AT LOCATIONS OF DRIVEWAY CROSSINGS, AND IN THE HANDICAP RAMPS
4. COMPACTED ABC STONE MAY BE REQUIRED AS SUBGRADE AT THE DISCRETION OF THE INSPECTOR.
5. SURFACE SHALL BE FINISHED TO GRADE AND CROSS SECTION WITH A FLOAT.
6. WHERE UTILITY BOXES/VAULTS MUST BE LOCATED IN THE SIDEWALK, THEY SHALL HAVE A MINIMUM 3" WIDE FRAME OF CONCRETE AROUND THEM

SHEET 1 OF 2

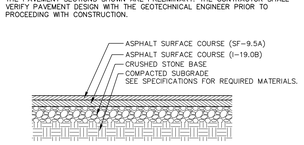
CITY OF RALEIGH STANDARD DETAIL		
REVISIONS	DATE: 8/2020	NOT TO SCALE
DATE: 12/2022		
DATE: 08/2023	CONCRETE SIDEWALK	
	T-30.01.1	



SHEET 2 OF 9

CITY OF RALEIGH STANDARD DETAIL		
REVISIONS	DATE: 8/2020	NOT TO SCALE
DATE: 12/2022	CURB RAMPS (NEW DEVELOPMENT)	
	T-20.01.2	

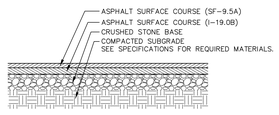
NOTE:
THE PAVEMENT SECTIONS SHOWN ARE PRELIMINARY. THE CONTRACTOR SHALL VERIFY PAVEMENT DESIGN WITH THE GEOTECHNICAL ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.



SUBGRADE COMPACTED TO A MINIMUM 98% STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698) REFER TO SOILS REPORT IF AVAILABLE.

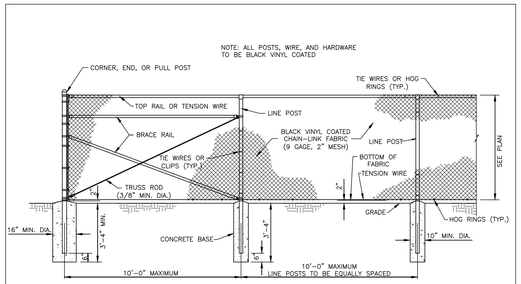
ON-SITE ASPHALT HEAVY DUTY TRAFFIC PAVEMENT DETAIL
N.T.S.

NOTE:
THE PAVEMENT SECTIONS SHOWN ARE PRELIMINARY. THE CONTRACTOR SHALL VERIFY PAVEMENT DESIGN WITH THE GEOTECHNICAL ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.

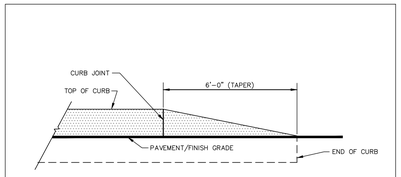


SUBGRADE COMPACTED TO A MINIMUM 98% STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698) REFER TO SOILS REPORT IF AVAILABLE.

ON-SITE ASPHALT PARKING PAVEMENT DETAIL
N.T.S.



CHAIN-LINK FENCE (BLACK VINYL COATED) DETAIL
N.T.S.



NOSE-DOWN CURB DETAIL
N.T.S.

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SCO PROJECT NO. 22-24384-01A
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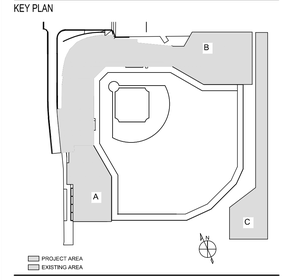
KEY PLAN



REVISIONS

NO.	BY	DESCRIPTION	DATE
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NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	DCB	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	NTS

DRAWING NAME

SITE DETAILS

FLOOR/SECTION	PHASE	DRAWING NO.
	BID	C8.00

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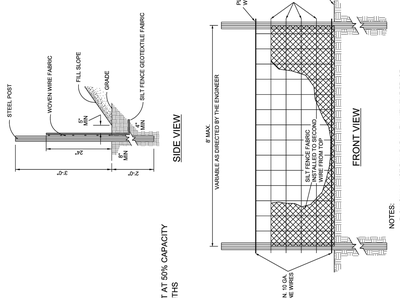
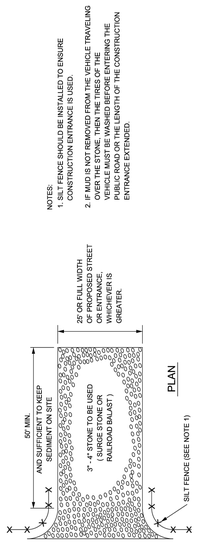


NOTES:
1. FLOW SHALL NOT RUN PARALLEL WITH THE FENCE.
2. DO NOT PLACE FENCE ACROSS STREAMS OR DITCHES.
3. SEE NC DEQ SEDIMENT DESIGN MANUAL FOR CONSTRUCTION SPECIFICATIONS, WHERE PRACTICE APPLIES AND PLANNING CONSIDERATION.
4. SILT FENCE SHOULD NOT BE USED ALONE BELOW GRADED SLOPES GREATER THAN 10' IN HEIGHT.

MAINTENANCE: CLEAN OUT AT 50% CAPACITY
LIFE OF FENCING: 6-9 MONTHS

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 8/2020	NOT TO SCALE
	STANDARD TEMPORARY (SEDIMENT/SILT) FENCE	
	SW-20.01	



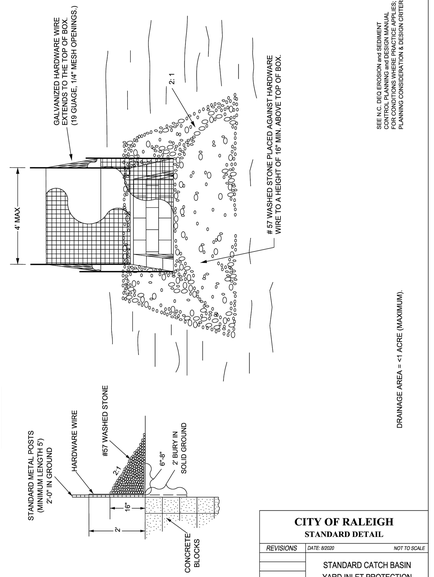
NOTES:
1. SILT FENCE SHOULD BE INSTALLED TO ENSURE CONSTRUCTION ENTRANCE IS USED.
2. IF MUD IS NOT REMOVED FROM THE VEHICLE TRAVELING OVER THE STONE, THEN THE TIRES OF THE VEHICLE MUST BE WASHED BEFORE ENTERING THE WATER, WHICH SHOULD BE DONE ON AREA OF THE CONSTRUCTION ENTRANCE EXTENDED.

MAINTENANCE:
ADD ADDITIONAL STONE AND "PLUFF" TOP DRESSING AS NEEDED TO KEEP ENTRANCE FUNCTIONING.

SEE N.C. DEQ EROSION and SEDIMENT CONTROL PLANNING and DESIGN MANUAL FOR CONSTRUCTION SPECIFICATIONS, WHERE PRACTICE APPLIES. PLANNING CONSIDERATION & DESIGN CRITERIA.

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 8/2020	NOT TO SCALE
	CONSTRUCTION ENTRANCE	
	SW-20.09	

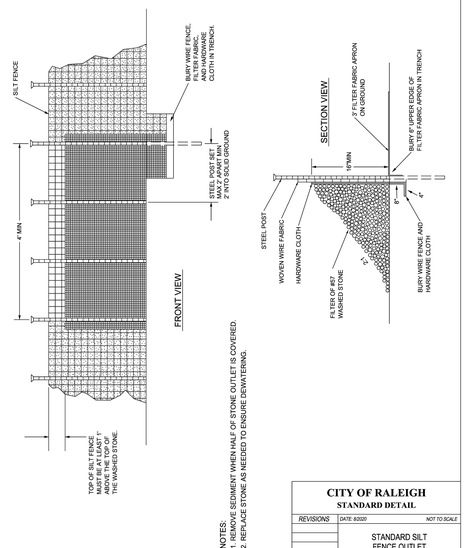


SEE N.C. DEQ EROSION and SEDIMENT CONTROL PLANNING and DESIGN MANUAL FOR CONDITIONS WHERE PRACTICE APPLIES. PLANNING CONSIDERATION & DESIGN CRITERIA.

DRAINAGE AREA = < 1 ACRE (MAXIMUM)

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 8/2020	NOT TO SCALE
	STANDARD CATCH BASIN YARD INLET PROTECTION	
	SW-20.15	



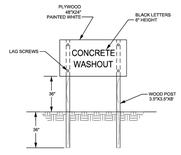
NOTES:
1. REMOVE SEDIMENT WHEN HALF OF STONE OUTLET IS COVERED.
2. REPLACE STONE AS NEEDED TO ENSURE DEWATERING.

CITY OF RALEIGH
STANDARD DETAIL

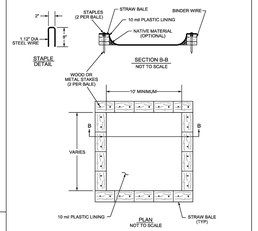
REVISIONS	DATE: 8/2020	NOT TO SCALE
	STANDARD SILT FENCE OUTLET	
	SW-20.24	

TYPE "BELOW GRADE"

TYPE "ABOVE GROUND" WITH WOOD PLANKS



CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT)



TYPE "ABOVE GRADE" WITH STRAW BALES

NOTES:
1. ACTUAL LAYOUT TO BE DETERMINED IN THE FIELD.
2. A CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE REMOVED FROM THE SITE OF THE WORK AND DISPOSED OF OR RECYCLED.
4. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED, REPAIRED, AND STABILIZED TO PREVENT EROSION.
5. MUST BE LOCATED >50 FT AWAY FROM INLETS/WATERWAYS UNLESS THERE IS NO OTHER PRACTICAL ALTERNATIVE.

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 8/2020	NOT TO SCALE
	CONCRETE WASHOUT	
	SW-20.25	

NOTE: FOR TREE PROTECTION ONLY

NOTES:
1. TREE PROTECTION FENCING MUST BE INSTALLED AT A MINIMUM RADIUS OF THE CRITICAL ROOT ZONE (1' RADIUS PER 1" DIAMETER OF TREE).
2. THE TREE PROTECTION FENCING MUST REMAIN IN PLACE FOR THE DURATION OF THE PROJECT
3. APPROVED IMPACT PROTECTION DEVICES MUST BE REMOVED AFTER CONSTRUCTION WHEN APPLICABLE.
4. ON CENTER FOR THE REMAINDER.
5. ALL TREE PROTECTION MATERIALS TO BE INSTALLED, PROVIDE NO LESS THAN ONE SIGN PER PROTECTED AREA.
6. ATTACH SIGNS SECURELY TO FENCE POSTS AND FABRIC.
7. FENCING MATERIAL SHALL BE 4' HIGH ORANGE PLASTIC MESH.
8. SIGNS ARE TO BE MADE OF DURABLE, WEATHERPROOF MATERIAL WITH LETTERS A MINIMUM OF 3 1/2" HIGH. CLEARLY LEGIBLE AND SPACED AS SHOWN.

CONTACT INFORMATION:
CITY OF RALEIGH PARKS, RECREATION AND CULTURAL RESOURCES DEPARTMENT
URBAN FORESTER: TREES@RALEIGHNC.GOV
WWW.RALEIGHNC.GOV

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 8/2020	NOT TO SCALE
	STANDARD TREE PROTECTION DETAIL	
	TPP-01	

NOTES:
1. CONTRACTOR MUST PROVIDE AND INSTALL TREE PROTECTION SIGNAGE.
2. A TREE IMPACT PERMIT IS REQUIRED PRIOR TO INITIATION OF CONSTRUCTION IF ANY TREES ON CITY PROPERTY ARE TO BE IMPACTED BY PRUNING, TRENCHING, BORING, REMOVAL, PAVING, PLANTING, ETC.

CONTACT INFORMATION:
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URBAN FORESTER: TREES@RALEIGHNC.GOV
WWW.RALEIGHNC.GOV

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 8/2020	NOT TO SCALE
	TREE PROTECTION FENCE LAYOUT	
	TPP-02	

NOTES:
1. WATTLES SHALL BE FILLED WITH STRAW OR OTHER APPROVED MATERIAL.
2. WATTLES SHALL BE INSTALLED ON CONTOUR AS DETERMINED BY THE ENGINEER.
3. WATTLES MAY BE USED FOR PROTECTION OF CATCH BASINS AND DROP INLETS WITH APPROVAL BY THE STORMWATER PROGRAM MANAGER OR DESIGNEE.
4. FOR USE OF WATTLE IN A DITCH, GRADE OF DITCH MUST BE <2.5%.

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 8/2020	NOT TO SCALE
	WATTLE / INLET PROTECTION DETAIL	
	SW-20.23	

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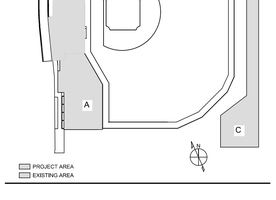
SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



REVISIONS

NO.	BY	DESCRIPTION	DATE
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DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	DCB	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	NTS

DRAWING NAME

EROSION CONTROL DETAILS

FLOOR/SECTION PHASE	DRAWING NO.
BID	C8.01

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GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

Temporary and Permanent Groundcover*

STABILIZATION TIMEFRAMES
(Effective Aug. 3, 2011)

Site Area Description	Stabilization	Timeframe Exceptions
Perimeter dikes, swales, ditches, slopes	7 days	None
High Quality Water (HQW) Zones	7 days	None
Slopes steeper than 3:1	7 days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed.
Slopes 3:1 or flatter	14 days	7 days for slopes greater than 50' in length.
All other areas with slopes flatter than 4:1	14 days	None, except for perimeters and HQW Zones.

*-For Falls Lake watershed, in disturbed areas where grading activities are incomplete, provide temporary groundcover no later than seven (7) days for slopes steeper than 3:1; ten (10) days for slopes equal to or flatter than 3:1; fourteen (14) days for areas with no slope.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
• Temporary grass seed covered with straw or other mulches and tackifiers • Hydroseeding • Rolled erosion control products with or without temporary grass seed • Appropriately applied straw or other mulch • Plastic sheeting	• Permanent grass seed covered with straw or other mulches and tackifiers • Geotextile fabrics such as permanent soil reinforcement matting • Hydroseeding • Shrubs or other permanent plantings covered with mulch • Uniform and evenly distributed ground cover sufficient to restrain erosion • Structural methods such as concrete, asphalt or retaining walls

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

1. Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
3. Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
4. Provide ponding area for containment of treated Stormwater before discharging offsite.
5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

NORTH CAROLINA *Environmental Quality*

EQUIPMENT AND VEHICLE MAINTENANCE

1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.
3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number of waste containers on site to manage the quantity of waste produced.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
5. Cover waste containers at the end of each workday and before storm events. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow.
8. Dispose waste off-site at an approved disposal facility.

PAINT AND OTHER LIQUID WASTE

1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled, sized and placed appropriately for the needs of site.
5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

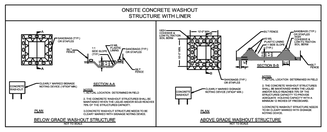
PORTABLE TOILETS

1. Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
3. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Provide stable stone access point when feasible.
4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



CONCRETE WASHOUTS

1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
3. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
4. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
5. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
6. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
7. Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
8. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
3. Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
4. Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

1. Create designated hazardous waste collection areas on-site.
2. Place hazardous waste containers under cover or in secondary containment.
3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 03/01/19

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include [40 CFR 122.41]:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un-attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Corrective actions taken, and 7. Date of actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Actions taken to correct/prevent sedimentation, and 7. Date of actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Date of actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event > 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Evidence and actions taken to reduce sediment contributions, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit of this permit.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be documented in the manner described:

Item to Document	Documentation Requirements
(a) Each E&SC Measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC Plan.	Initial and date each E&SC Measure on a copy of the approved E&SC Plan or complete, date and sign an inspection report that lists each E&SC Measure shown on the approved E&SC Plan. This documentation is required upon the initial installation of the E&SC Measures or if the E&SC Measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC Plan.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC Measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC Measures.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation

In addition to the E&SC Plan documents above, the following items shall be kept on the site and available for agency inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

(a) This general permit as well as the certificate of coverage, after it is received.

(b) Records of inspections made during the previous 30 days. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

(c) All data used to complete the Notice of Intent and older inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that must be reported

Permittees shall report the following occurrences:

(a) Visible sediment deposition in a stream or wetland.

(b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).

(a) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

(b) Anticipated bypasses and unanticipated bypasses.

(c) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Division's Emergency Response personnel at (800) 662-7956, (800) 858-0368 or (919) 733-3300.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days,*** a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	• ***Within 24 hours***, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	• ***A report at least ten days before the date of the bypass, if possible***. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days,*** a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment[40 CFR 122.41(l)(7)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days,*** a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.

NORTH CAROLINA *Environmental Quality*

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 03/01/19

EWING COLE

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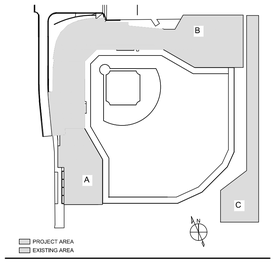
www.mcadamsco.com

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



NORTH CAROLINA PROFESSIONAL SEAL 046723 ENGINEER DEREK C. BLANKENSHIP

REVISIONS

NO.	BY	DESCRIPTION	DATE
	EC	ISSUE TO BID	09/03/2024

NC STATE UNIVERSITY

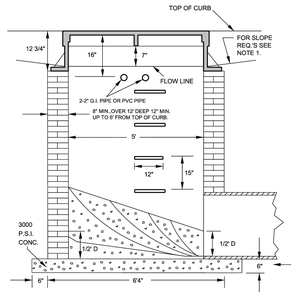
DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	DCB	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	NTS

DRAWING NAME

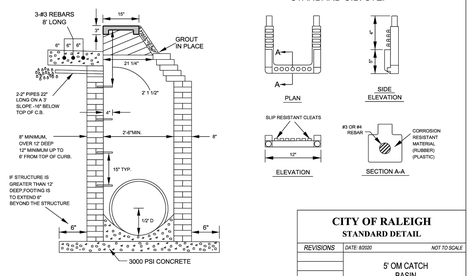
NCG01 DETAILS

FLOOR/SECTION PHASE	DRAWING NO.
BID	C8.02



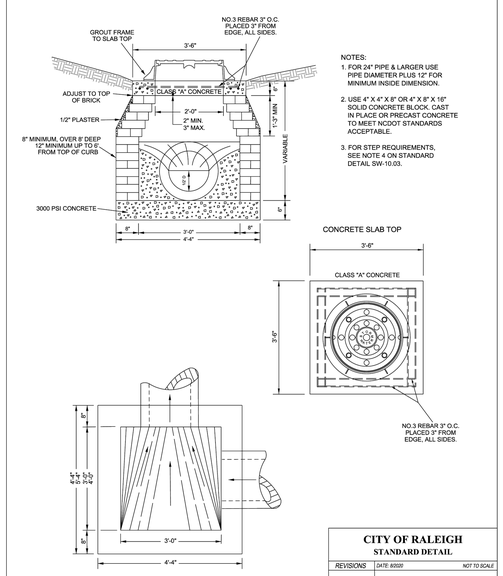
NOTES:
1. THE SLOPE OF THE GUTTER TO THE CATCH BASIN ON THE UPHILL SIDE SHALL BEGIN 10' FROM THE THE CATCH BASIN. THE SLOPE OF THE GUTTER TO THE CATCH BASIN ON THE DOWNHILL SIDE, SHALL BEGIN 10' FROM THE CATCH BASIN.
2. STEPS SHALL BE INSTALLED IN ALL CATCH BASINS OVER 3' IN DEPTH. DEPTH SHALL BE MEASURED FROM THE TOP OF CURB TO THE INVERT OF THE CATCH BASIN.
3. SOLID CONCRETE BRICKS MAY BE USED IN 4X4X8 OR 4X8X16 SIZES.
4. NCDOT APPROVED PRECAST CONCRETE BOXES ACCEPTABLE USING STANDARD 5' CASTINGS.
5. DOMESTIC CASTING REQUIRED WITHIN STREET RIGHT OF WAY.
6. 1" MAXIMUM EXTENSION OF PIPE INTO THE STORM BOX.

STANDARD C.B. STEP



CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 8/2020	NOT TO SCALE
	5' OM CATCH BASIN	
	SW-10.01	



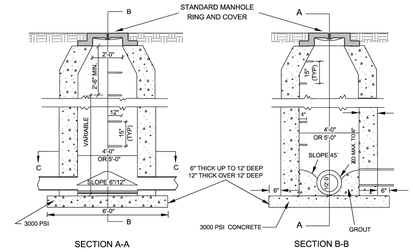
NOTES:
1. FOR 24" PIPE & LARGER USE PIPE DIAMETER PLUS 12" FOR MINIMUM INSIDE DIMENSION.
2. USE 4" X 4" X 8" OR 4" X 8" X 16" SOLID CONCRETE BLOCK, CAST IN PLACE OR PRECAST CONCRETE TO MEET NCDOT STANDARDS ACCEPTABLE.
3. FOR STEP REQUIREMENTS, SEE NOTE 4 ON STANDARD DETAIL SW-10.03.

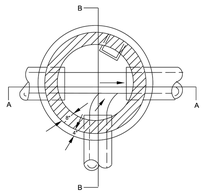
CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 8/2020	NOT TO SCALE
	STANDARD JUNCTION BOX	
	SW-10.04	

TYPICAL MH FOR STORM SEWER

PIPE SIZE	MH DIAMETER
12-24"	4'-0"
30-42"	5'-0"
48"	6'-0"
54"	8'-0"

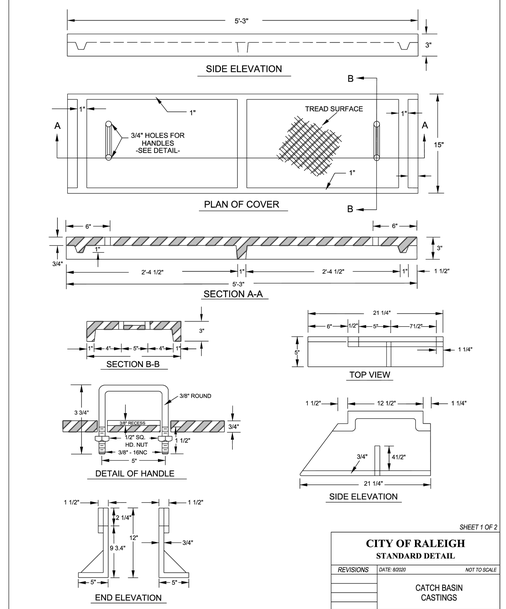




NOTES:
1. DEPTH MEASURED FROM TOP OF CASTING TO INVERT OF MANHOLE.
2. PRECAST MANHOLE COMPONENTS SHALL MEET ASTM-C-478 REQUIREMENTS.
3. SEE STANDARD. SW-10.10 FOR MANHOLE COVER DETAIL.
4. DOMESTIC CASTINGS REQUIRED WITHIN STREET RIGHT-OF-WAY.

CITY OF RALEIGH
STANDARD DETAIL

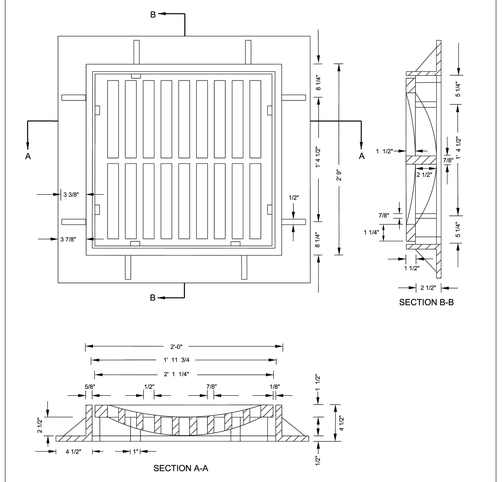
REVISIONS	DATE: 8/2020	NOT TO SCALE
	STANDARD CLASS "A" MANHOLE	
	SW-10.05	



SHEET 1 OF 2

CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 8/2020	NOT TO SCALE
	CATCH BASIN CASTINGS	
	SW-10.06.1	

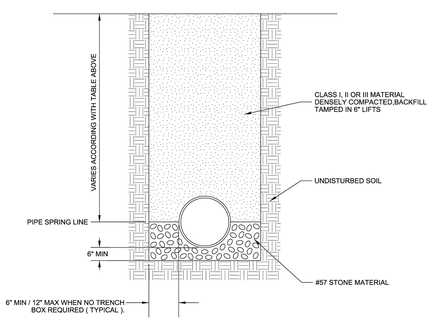


STANDARD 24" X 24" DROP INLET CASTING

CITY OF RALEIGH
STANDARD DETAIL

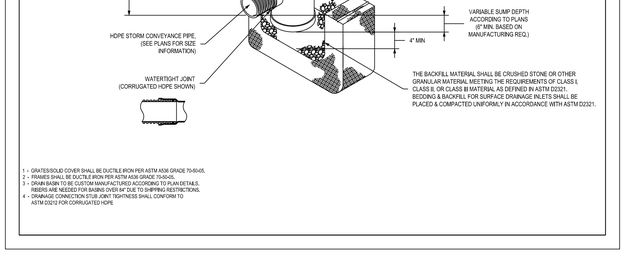
REVISIONS	DATE: 8/2020	NOT TO SCALE
	DROP INLET CASTING	
	SW-10.08	

COVER FOR PIPES WITHIN THE R.O.W. MINIMUM PIPE CLEARANCE FROM INVERT TO SUBGRADE	
PIPE SIZE (in)	CLEARANCE DISTANCE (ft)
15	2.4
18	2.7
24	3.3
30	3.6
36	4.4
42	4.9
48	5.4
54	6.0
60	6.5
66	7.0
72	7.6

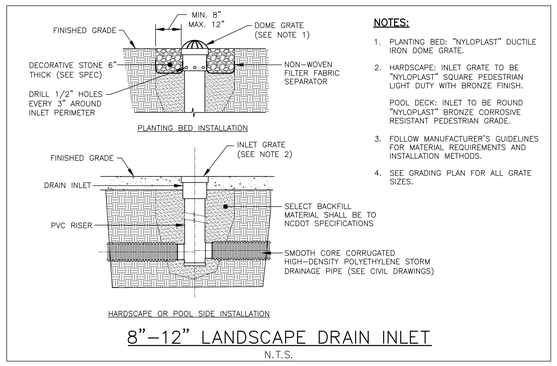


CITY OF RALEIGH
STANDARD DETAIL

REVISIONS	DATE: 8/2020	NOT TO SCALE
	BEDDING FOR STORMWATER RCP PIPES	
	SW-10.14	



1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE



NOTES:
1. PLANTING BED: "NYLOPLAST" DUCTILE IRON DOME GRATE.
2. HARDSCAPE: INLET GRATE TO BE "NYLOPLAST" SQUARE PEDESTRIAN LIGHT DUTY WITH BRONZE FINISH.
   POOL DECK: INLET TO BE ROUND "NYLOPLAST" BRONZE CORROSIVE RESISTANT PEDESTRIAN GRADE.
3. FOLLOW MANUFACTURER'S GUIDELINES FOR MATERIAL REQUIREMENTS AND INSTALLATION METHODS.
4. SEE GRADING PLAN FOR ALL GRATE SIZES.

8"–12" LANDSCAPE DRAIN INLET
N.T.S.

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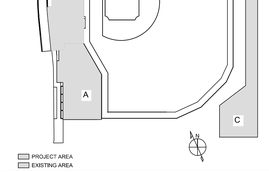
SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



REVISIONS

NO.	BY	DESCRIPTION	DATE
1	EC	ISSUE TO BID	09/03/2024

NC STATE UNIVERSITY

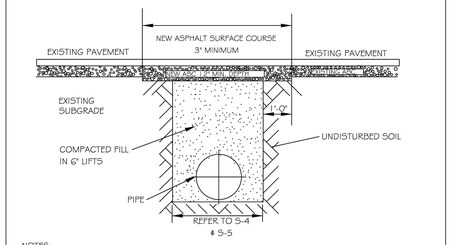
DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	DCB	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	NTS

DRAWING NAME

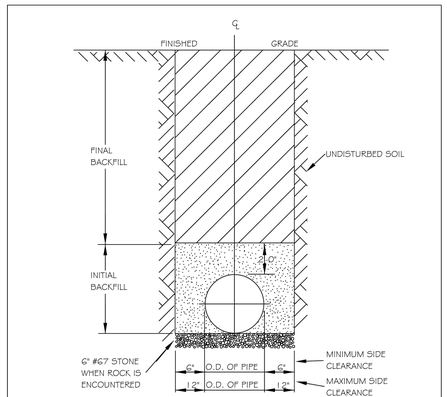
STORMWATER DETAILS

FLOOR/SECTION	PHASE	DRAWING NO.
	BID	C8.03



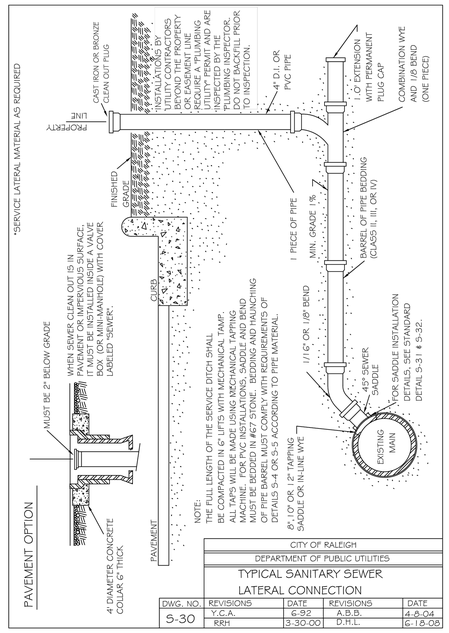
NOTES:
1. IN NCDOT MAINTAINED ROADWAYS ENCROACHMENT PAVEMENT PATCH REQUIREMENTS SHALL TAKE PRECEDENCE.
2. THE PAVEMENT CUT SHALL BE DEFINED BY A STRAIGHT EDGE AND CUT WITH AN APPROPRIATE SAWCUT MACHINE.
3. THE TRENCH SUBGRADE MATERIAL SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED TO A DENSITY OF AT LEAST 95% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY NCDOT.
4. THE FINAL 1'-0" FILL SHALL CONSIST OF ABC MATERIAL COMPACTED TO A DENSITY EQUAL TO 100% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-80 AS MODIFIED BY NCDOT.
5. THE ENTIRE THICKNESS AND VERTICAL EDGE OF CUT SHALL BE TACKED.
6. THE SAME DEPTH OF PAVEMENT MATERIAL WHICH EXISTS SHALL BE REINSTALLED, BUT IN NO CASE SHALL THE ASPHALT BE LESS THAN 3" THICK.
7. THE ASPHALT PAVEMENT MATERIAL SHALL BE INSTALLED AND COMPACTED THOROUGHLY WITH A SMOOTH DRUM ROLLER TO ACHIEVE A SMOOTH LEVEL PATCH.
8. REFER TO CITY OF RALEIGH STANDARDS FOR TRENCHES AND PIPE BEDDING (S-4 & S-5) FOR ADDITIONAL DETAILS.
9. NO HAND PATCHING ALLOWED.
10. PAVEMENT CUTS WITHIN NCDOT ROW SHALL CONFORM TO THE APPROVED ON SITE ENCROACHMENT PERMIT.

CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
STANDARD ASPHALT PAVEMENT PATCH DETAIL				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-3	D.W.C.	11-1-99	A.B.B.	4-19-04
	RRH	3-30-00	J.F.S.	10-8-10

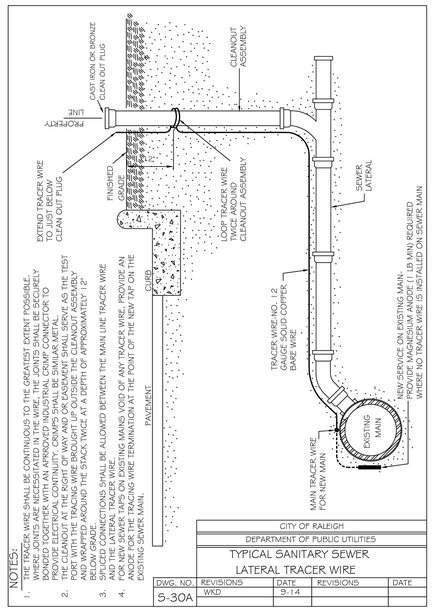


NOTES:
1. TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND BRACING.
2. NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN INITIAL BACKFILL.
3. ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL.
4. BACKFILL SHALL BE TAMPED IN 6" LIFTS IN TRAFFIC AREAS, 12" IN NON-TRAFFIC AREAS.
5. ACHIEVE 80% COMPACTION IN NON-TRAFFIC AREAS, AND 95% COMPACTION IN TRAFFIC AREAS.
6. IF IN EASEMENT 4" TOPSOIL, AND 12" CLEAN SELECT FILL MAY BE REQUIRED.
7. NO BOULDERS 8" IN DIAMETER OR GREATER ALLOWED IN FINAL BACKFILL.

CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
TRENCH BOTTOM DIMENSIONS & BACKFILLING REQUIREMENTS FOR DUCTILE IRON				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-4	D.W.C.	9-3-99		
	RRH	3-30-00		

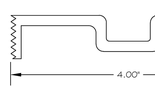


CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
TYPICAL SANITARY SEWER LATERAL CONNECTION				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-30	Y.C.A.	6-92	A.B.B.	4-5-04
	RRH	3-30-00	D.H.L.	6-18-08

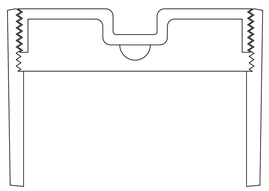


NOTES:
1. THE TRACER WIRE SHALL BE CONTINUOUS TO THE GREATEST EXTENT POSSIBLE. WHERE JOINTS ARE MADE, THE WIRES SHALL BE SECURELY BONDED TOGETHER WITH AN APPROVED INDUSTRIAL JOINT CONNECTOR TO PROVIDE ELECTRICAL CONTINUITY. CRIMPS SHALL BE SIMILAR METAL.
2. THE CLEANOUT AT THE RIGHT OF WAY AND EASEMENT SHALL SERVE AS THE TEST STATION. THE TRACER WIRE SHALL BE LOOPED AT THE CLEANOUT ASSEMBLY AND WRAPPED AROUND THE STACK TWICE AT A DEPTH OF APPROXIMATELY 12" BELOW GRADE.
3. SPLICE CONNECTIONS SHALL BE ALLOWED BETWEEN THE MAIN LINE TRACER WIRE AND THE LATERAL TRACER WIRE.
4. FOR NEW SEWER TAPS ON EXISTING MAINS VOID OF ANY TRACER WIRE, PROVIDE AN EXPOSED CONNECTION TO THE TRACER WIRE FROM OF THE NEW 4" OR 6" LINE TO THE EXISTING SEWER MAIN.

CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
TYPICAL SANITARY SEWER LATERAL TRACER WIRE				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-30A	WKD	9-14		



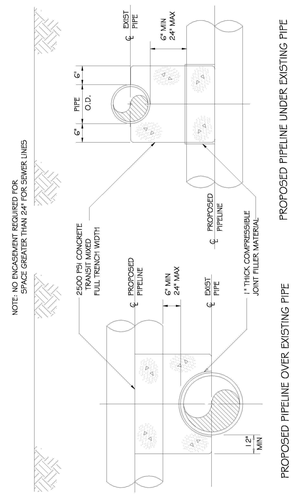
STANDARD 4" BRONZE CLEANOUT PLUG



CLEANOUT FERRULE WITH PLUG

STYLES ACCEPTED:
INVERTED NUT
RAISED NUT

CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
4" CLEANOUT PLUG				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-34		3-1-87	RRH	3-30-00
	D.W.C.	3-27-98		



CITY OF RALEIGH				
DEPARTMENT OF PUBLIC UTILITIES				
CONCRETE CRADLE PROTECTION FOR SEWER LINE CROSSINGS				
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
S-49	DHL	2-20-08		

EWING COLE
8208 Brownleigh Drive, Suite 200
Raleigh, NC 27617
Tel: 919-460-6700 Fax: 919-460-6733

CONSULTANTS

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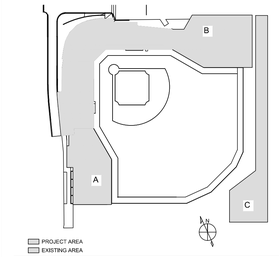
Suite 500
Raleigh, NC 27603
phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187
www.mcadamsco.com

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



REVISIONS

NO.	BY	DESCRIPTION	DATE
	EC	ISSUE TO BID	09/03/2024

NC STATE UNIVERSITY

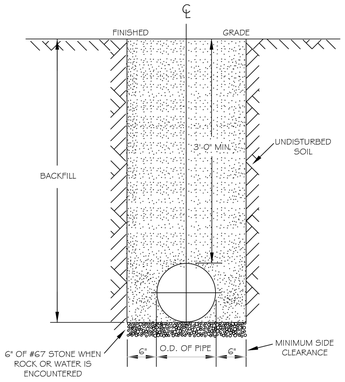
DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	DCB	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	NTS

DRAWING NAME

SEWER UTILITY DETAILS

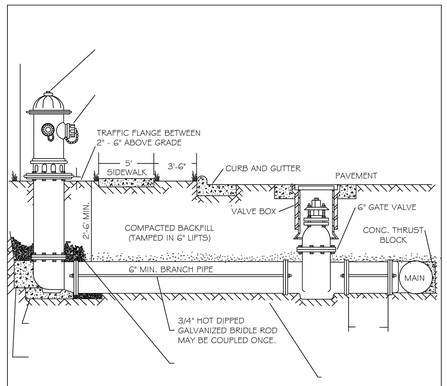
FLOOR/SECTION	PHASE	DRAWING NO.
	BID	C8.04



NOTES:
1. TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND BRACING.
2. NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN BACKFILL.
3. ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL.
4. BACKFILL SHALL BE TAMPED IN 6" LIFTS.
5. ACHIEVE 95% COMPACTION IN BACKFILL

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
TRENCH BOTTOM DIMENSIONS & BACKFILLING REQUIREMENTS FOR DUCTILE IRON

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-3	D.W.C.	9-3-99	ABB	2-15-05
	RRH	3-31-00	J.P.S.	10-29-10

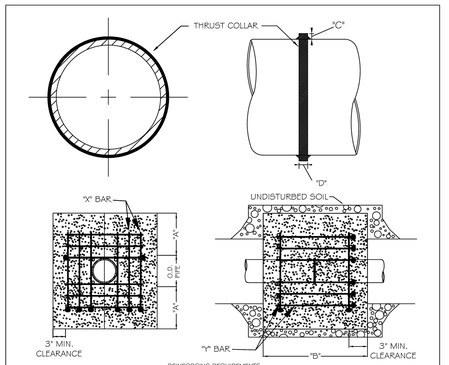


NOTES:
1. FIRE HYDRANT SHALL BE AS MANUFACTURED: MUELLER, AMERICAN DARLING, KENNEDY, M&H, WATEROUS, CLOW, EAST JORDAN IRON WORKS, OR US PIPE.
2. BRANCH PIPE SHALL BE DUCTILE IRON AWWA C150-96
3. 6" GATE VALVE SHALL BE AWWA C500-86 OPEN LEFT
4. STEEL RODS AND BOLTS SHALL BE ¾" HOT DIPPED GALVANIZED
5. FIRE HYDRANTS WILL BE INSTALLED IN TRUE VERTICAL POSITION
   RODS SHALL NOT BE COUPLED MORE THAN ONCE. IF THE LENGTH FROM THE VALVE TO THE HYDRANT EXCEEDS 20' THEN A MECHANICAL RESTRAINING GLAND WITH A REBAR CAGE SHALL BE INSTALLED NO MORE THAN 10' FROM HYDRANT AND POURED IN CONCRETE.
   FIRE HYDRANTS TO BE LOCATED IN ROW OR 2 FOOT EASEMENT ADJACENT TO ROW

ANYTIME SITE WORK, CONSTRUCTION, ROAD WORK, OR ANY OTHER WORK CHANGES THE GRADE OF THE FIRE HYDRANT, THE PERSON RESPONSIBLE FOR THE WORK IS RESPONSIBLE FOR ADJUSTING THE FIRE HYDRANT TO STAY WITHIN COMPLIANCE.

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
STANDARD FIRE HYDRANT INSTALLATION DETAIL

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-4a	ABB	4-6-04		



REINFORCING REQUIREMENTS

I.D. PIPE	REBAR SIZE	"X" BAR LENGTH	"X" BAR WEIGHT	"Y" BAR LENGTH	"Y" BAR WEIGHT	NO. REQUIRED
6" - 36"	#5	2'-2"+ O.D. PIPE	1.043 LBS/FT	1'-1"	1.1 LBS. EACH	X-24, Y-12
40" & greater	#6	3'-0"+ O.D. PIPE	1.502 LBS/FT	1'-3"	1.9 LBS. EACH	X-24, Y-12

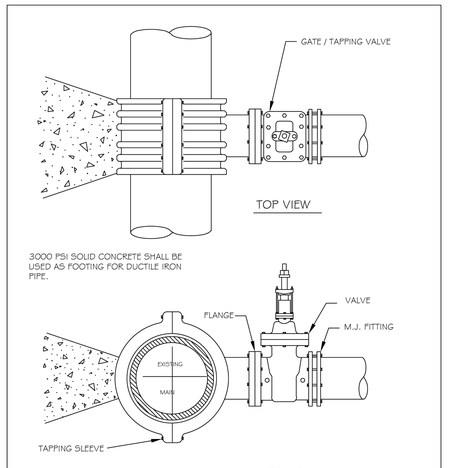
THRUST COLLAR, AND THRUST SCHEDULE

I.D. PIPE	"A"	"B"	"C"	"D"
6" - 16"	1'-4"	1'-7"	2"	3/8"
20" - 24"	1'-4"	1'-7"	3"	1/2"
30" - 36"	1'-4"	1'-7"	4"	5/8"
40" & greater	1'-8"	1'-9"	6"	7/8"

NOTES:
1. SEE STANDARD DETAIL W-9 FOR THRUST BLOCK LOCATIONS.
2. CONCRETE SHALL BE 3000 PSI AND TRANSIT MIXED.
3. REINFORCING BARS SHALL BE DEFORMED AND TIED TOGETHER.
4. TRENCH BOTTOM WIDTH IN VICINITY OF THRUST BLOCK INSTALLATION SHALL BE THE MINIMUM WIDTH AS SHOWN ON STANDARD DETAIL W-3.
5. BACKFILL TAMPED IN 6" LIFTS PER STANDARD DETAIL W-3.
6. THRUST COLLAR MUST BE FACTORY WELDED ON BOTH SIDES ALONG BOTH EDGES OF COLLAR AROUND CIRCUMFERENCE.

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
THRUST BLOCKING DESIGN DATA FOR WATER MAINS

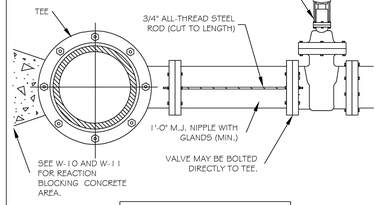
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-7	RRH	1-21-00	J.P.S.	11-1-10
	D.H.L.	6-18-08		



NOTES:
1. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL JOINT FITTINGS.
2. SEE STANDARD REACTION BLOCK TABLES, W-10 AND W-11 FOR AREA OF CONCRETE REQUIRED.

CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
4" - 24" STANDARD TAPPING SLEEVE AND VALVE ASSEMBLY

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-14	Y.C.A.	12-31-91	RRH	3-31-00
	D.W.C.	9-7-99	J.P.S.	11-1-10



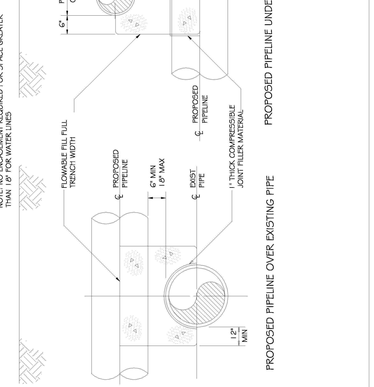
ROD REQUIREMENTS

NO. OF RODS	BRANCH SIZE
4"	2
6"	2
8"	4
12"	4
16"	6
24"	6
30"	8
36"	8

NOTES:
1. STEEL RODS AND BOLTS SHALL BE 3/4" HOT DIPPED GALVANIZED.
2. SEE STANDARD THRUST BLOCK, TABLES W-10 AND W-11 FOR CONCRETE.
3. CONCRETE SHALL NOT CONTACT BOLTS OR ENDS OF MECHANICAL FITTINGS.
4. THIS RODDING REQUIREMENT DOES NOT APPLY TO FIRE HYDRANTS.

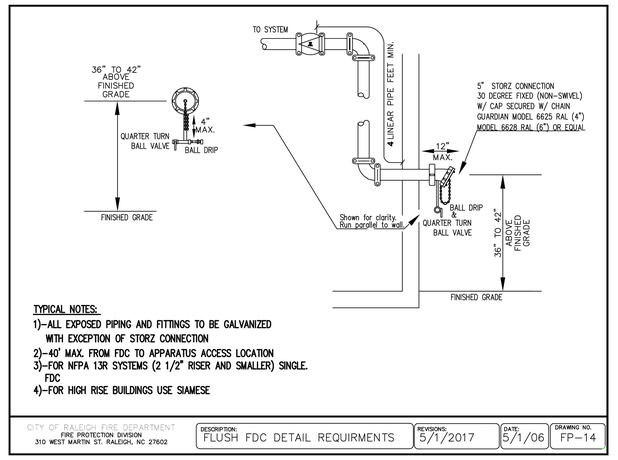
CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
VALVE RESTRAINT AT TEES AND CROSSES FOR LINES (4"-24")

DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-15	RRH	3-31-00	D.H.L.	6-16-08
	A.B.B.	4-19-04	J.P.S.	11-1-10



CITY OF RALEIGH
DEPARTMENT OF PUBLIC UTILITIES
CONCRETE CRADLE PROTECTION FOR WATER LINE CROSSINGS

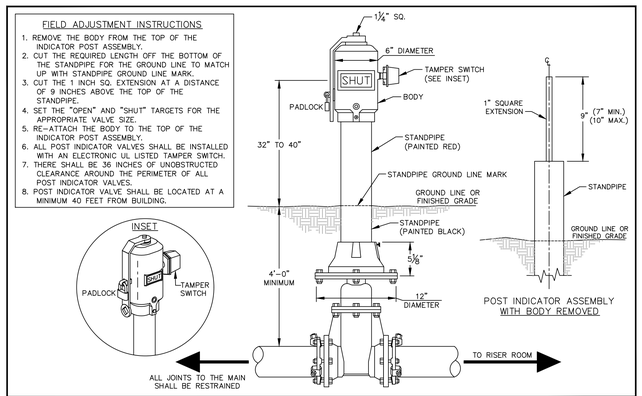
DWG. NO.	REVISIONS	DATE	REVISIONS	DATE
W-41	DHL	2-20-08		



TYPICAL NOTES:
1)–ALL EXPOSED PIPING AND FITTINGS TO BE GALVANIZED WITH EXCEPTION OF STORZ CONNECTION
2)–40' MAX. FROM FDC TO APPARATUS ACCESS LOCATION
3)–FOR NFPA 13R SYSTEMS (2 1/2" RISER AND SMALLER) SINGLE. FDC
4)–FOR HIGH RISE BUILDINGS USE SIAMESE

CITY OF RALEIGH FIRE DEPARTMENT
FIRE PROTECTION DIVISION
310 WEST MARTIN ST. RALEIGH, NC 27602

DESCRIPTION:	REVISIONS:	DATE:	DRAWING NO.
FLUSH FDC DETAIL REQUIRMENTS	5/1/2017	5/1/06	FP-14



STANDARD POST INDICATOR VALVE

EWING COLE
8208 Brownleigh Drive, Suite 200
Raleigh, NC 27617
Tel: 919-460-6700 Fax: 919-460-6733

CONSULTANTS

McADAMS
The John R. McAdams Company, Inc.
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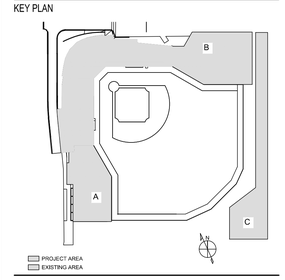
Raleigh, NC 27603
phone 919. 361. 5000
fax 919. 361. 2269
license number: C-0293, C-187
www.mcadamsco.com

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 046723 CHRISTOPHER D. BLANCHARD

REVISIONS

NO.	BY	DESCRIPTION	DATE
EC		ISSUE TO BID	09/03/2024

NC STATE UNIVERSITY

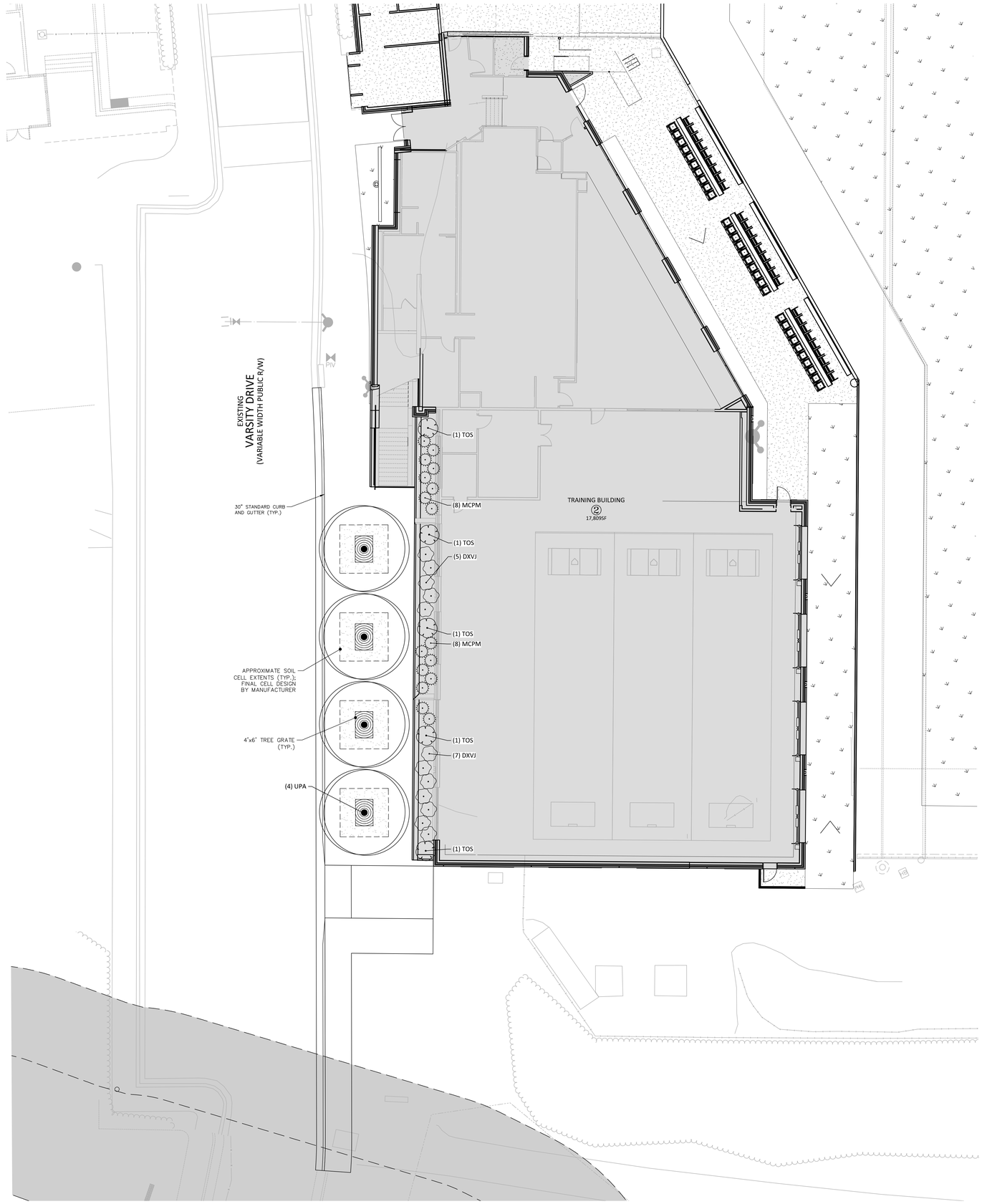
DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	DCB	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	NTS

DRAWING NAME
WATER UTILITY DETAILS

FLOOR/SECTION PHASE: BID
DRAWING NO.: C8.05

M:\Projects\NCSU\20220400\4-Production\Engineering\Site Plan\Construction Drawings\Current Drawings\Field Improvements\NCSU20004-01.dwg, 9/29/2024 11:55:24 AM, Alexis Owens

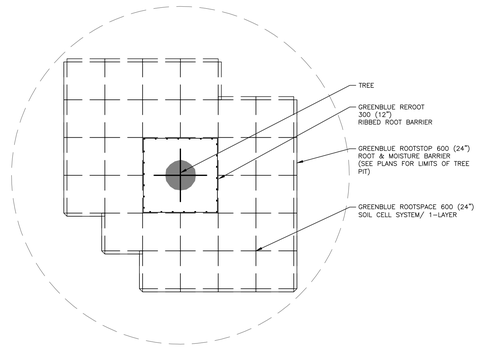


PLANT SCHEDULE RIGHT FIELD

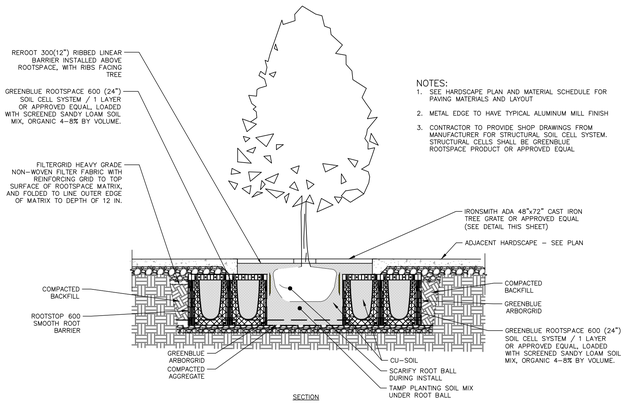
SYMBOL	CODE	COMMON NAME	BOTANICAL NAME
TREES			
	TOS	Emerald Green Arborvitae	Thuja occidentalis 'Smaragd'
	UPA	Allee® Lacebark Elm	Ulmus parvifolia 'Allee'
SHRUBS			
	DXVJ	First Editions® Vintage Jade Distylium	Distylium x 'Vintage Jade'
	MCPM	Pink Muhly Grass	Muhlenbergia capillaris

SITE LEGEND

- SIGNAGE
- YARD LIGHTS
- LIGHT POLE
- POWER POLE
- TRAFFIC DIRECTIONAL ARROW
- ACC / VAN — ACCESSIBLE PARKING STALL
- VAN ACCESSIBLE PARKING STALL
- XX — PARKING SPACE COUNT
- ACCESSIBLE RAMPS (TYPE A, TYPE B, TYPE C)
- ACCESSIBLE ROUTE
- PHASE LINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- LOT LINE
- EASEMENT LINE
- CENTERLINE
- HEAVY DUTY ASPHALT PAVEMENT



TYPICAL TREE PIT PLAN – SEE PLAN FOR LIMITS
*FINAL DESIGN BY MANUFACTURER

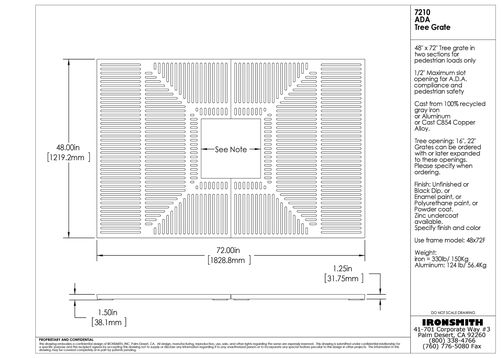


SECTION

NOTES:
1. SEE HARDSCAPE PLAN AND MATERIAL SCHEDULE FOR PAVING MATERIALS AND LAYOUT
2. METAL EDGE TO HAVE TYPICAL ALUMINUM MILL FINISH
3. CONTRACTOR TO PROVIDE SHOP DRAWINGS FROM MANUFACTURER FOR STRUCTURAL SOIL CELL SYSTEM. STRUCTURAL CELLS SHALL BE GREENBLUE ROOTSPACE PRODUCT OR APPROVED EQUAL

01 GREENBLUE SOIL CELLS

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



GRAPHIC SCALE
0 5 10 20
1 inch = 10 ft.

EWING COLE
8208 Brownleigh Drive, Suite 200
Raleigh, NC 27617
Tel: 919-460-6700 Fax: 919-460-6733

CONSULTANTS

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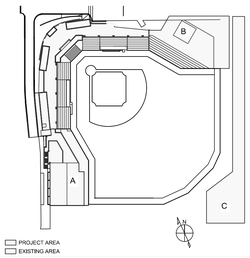
SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 2126 BRIAN T. KISKO 9/3/2024

REVISIONS

NO.	BY	DESCRIPTION	DATE
1	EC	ISSUE TO BID	09/03/2024

NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT

1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	BTK	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	1" = 10'

DRAWING NAME

LANDSCAPE PLAN RIGHT
FIELD ENLARGEMENT

FLOOR/SECTION PHASE	DRAWING NO.
BID	L5.02

PLANT SCHEDULE RIGHT FIELD

SYMBOL	CODE	QTY	COMMON NAME	BOTANICAL NAME	CAL	HEIGHT
TREES						
	TOS	5	EMERALD GREEN ARBORVITAE	THUJA OCCIDENTALIS 'SMARAGD'	-	6' MIN
	UPA	4	ALLEE® LACEBARK ELM	ULMUS PARVIFOLIA 'ALLEE'	2.5" MIN	
SYMBOL	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT	HEIGHT
SHRUBS						
	DXVJ	12	FIRST EDITIONS® VINTAGE JADE DISTYLIUM	DISTYLIUM X 'VINTAGE JADE'	7 GAL	
	MCPM	16	PINK MUHLY GRASS	MUHLENBERGIA CAPILLARIS	7 GAL	

PLANTING SPECIFICATIONS:

GENERAL

1. REFER TO CIVIL DRAWINGS FOR NOTES AND DETAILS ON SITE GRADING AND EROSION AND SEDIMENT CONTROL. REFER TO SEEDING AND SODDING NOTES FOR TURF GRASS INSTALLATION.
2. CONTRACTOR TO SUBMIT A LIST OF PLANT MATERIALS AND SOURCES FOR REVIEW BY LANDSCAPE ARCHITECT PRIOR TO PURCHASE AND INSTALLATION. CONTRACTOR TO COORDINATE ANY DISCREPANCIES OR SUBSTITUTIONS WITH LANDSCAPE ARCHITECT.
3. DURING DELIVERY, STORAGE AND HANDLING, CONTRACTOR TO PROTECT AND MAINTAIN PLANT LIFE UNTIL PLANTED. PROVIDE PROTECTIVE COVERING OVER ALL PLANTINGS DURING TRANSPORT. ADEQUATELY PROTECT PLANTS FROM DRYING OUT, EXPOSURE OF ROOTS TO SUN, WIND OR EXTREMES OF HEAT AND COLD TEMPERATURES. IF PLANTING IS DELAYED MORE THAN 24 HOURS AFTER DELIVERY, STORE PLANTS IN LOCATION PROTECTED FROM SUN AND WIND AND PROVIDE ADEQUATE WATER TO THE ROOT BALL PACKAGE. PLANT MATERIAL DAMAGED AS A RESULT OF DELIVERY, STORAGE OR HANDLING WILL BE REJECTED.
4. PLANTS, INCLUDING TREES, SHRUBS, GROUNDCOVERS, VINES AND ORNAMENTAL GRASSES, TO BE INSTALLED BETWEEN THE FOLLOWING DATES:
   SPRING PLANTING SEASON: MARCH 15 TO JUNE 1
   FALL PLANTING SEASON: SEPTEMBER 15 TO DECEMBER 1
5. PROCEED WITH PLANTING ONLY WHEN EXISTING AND FORECASTED WEATHER CONDITIONS PERMIT. PLANT TREES AND SHRUBS AFTER FINISH GRADES ARE ESTABLISHED AND BEFORE PLANTING LAWNS. PROTECT LAWN AREAS TO REMAIN AND PROMPTLY REPAIR DAMAGE CAUSED BY PLANTING OPERATIONS.
6. CONTRACTOR SHALL CAREFULLY EXAMINE THE CIVIL, RECORD AND SURVEY DRAWINGS TO BECOME FAMILIAR WITH EXISTING UNDERGROUND CONDITIONS BEFORE DIGGING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF ALL SURFACE AND SUBSURFACE CONDITIONS, AND TO NOTIFY THE LANDSCAPE ARCHITECT OF ANY CIRCUMSTANCES THAT WOULD NEGATIVELY IMPACT UNDERGROUND CONDITIONS OR THE HEALTH OF THE PLANTINGS.

PRODUCTS

1. TREE AND SHRUB MATERIAL: FURNISH NURSERY-GROWN, TYPICAL OF THEIR SPECIES OR VARIETY, WITH NORMAL GROWTH HABIT, WELL-DEVELOPED BRANCH STRUCTURE, HEALTHY FOLIAGE, AND VIGOROUS ROOT SYSTEMS IN ACCORDANCE WITH APPLICABLE REQUIREMENTS IN ANSIZ60.1 "AMERICAN STANDARD FOR NURSERY STOCK". PLANTS SHALL BE FREE FROM DEFECTS OR DAMAGE, INCLUDING BUT NOT LIMITED TO, DISFIGURING KNOTS, SUNSCALD INJURIES, FROST CRACKS, ABRASION OF THE BARK, PLANT DISEASES, INSECT EGGS, BORERS, FIRE ANTS, AND ALL FORMS OF INFESTATION.
2. SOIL: ASTM D 5268 TOPSOIL, pH RANGE OF 5.5 TO 7, A MINIMUM OF 6 PERCENT ORGANIC MATERIAL CONTENT; FREE OF STONES 1 INCH OR LARGER IN ANY DIMENSION AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH.
3. SOIL AMENDMENTS:
   A. ORGANIC COMPOST: WELL-COMPOSTED, STABLE AND WEED-FREE ORGANIC MATTER, pH RANGE OF 5.5 TO 8; MOISTURE CONTENT 35 TO 55 PERCENT BY WEIGHT; 100 PERCENT PASSING THROUGH 3/4" SIEVE; SOLUBLE SALT CONTENT OF 5 TO 10 DECISIEMENS/M; NOT EXCEEDING 0.5 PERCENT INERT CONTAMINANTS AND FREE OF SUBSTANCES TOXIC TO PLANTINGS.
   B. INORGANIC SOIL AMENDMENTS: COMMERCIAL GRADE, FREE OF TOXIC MATERIALS.
4. FERTILIZER: GRANULAR OR PELLET SLOW-RELEASE FERTILIZER CONSISTING OF 50 PERCENT WATER-INSOLUBLE NITROGEN, PHOSPHOROUS AND POTASSIUM IN THE COMPOSITION AS DIRECTED BY SOIL ANALYSIS TESTING.
5. ORGANIC MULCH: SHREDDED HARDWOOD IN NATURAL BROWN COLOR; 3" MAXIMUM SIZE IN LONGEST DIMENSION; FREE FROM DELETERIOUS MATERIALS AND SUITABLE FOR A TOP DRESSING OF TREES AND SHRUBS.
6. STAKES AND GUYS: DEEPROOT ARBORTIE STAKING AND GUYING MATERIAL OR APPROVED EQUAL.

PLANTING INSTALLATION:

EXAMINATION AND PREPARATION

1. INSTALLER TO EXAMINE AREAS TO RECEIVE EXTERIOR PLANTS FOR COMPLIANCE WITH REQUIREMENTS AND CONDITIONS AFFECTING INSTALLATION AND PERFORMANCE. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
2. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES, AND LAWNS AND EXISTING PLANTINGS FROM DAMAGE CAUSED BY PLANTING OPERATIONS REFER TO CIVIL DRAWINGS FOR EROSION AND SEDIMENT CONTROL MEASURES.
3. LAY OUT INDIVIDUAL TREE AND SHRUB LOCATIONS PER PLANTING PLAN. OBTAIN LANDSCAPE ARCHITECT'S ACCEPTANCE OF LAYOUT BEFORE PLANTING AND MAKE MINOR ADJUSTMENTS AS NEEDED.

PLANTING BED ESTABLISHMENT

1. VERIFY SITE GRADING PRIOR TO DIGGING. LOOSEN SUBGRADE TO A MINIMUM DEPTH OF 8 INCHES. REMOVE STONES LARGER THAN 1 INCH IN ANY DIMENSION AND STICKS, ROOTS, RUBBISH AND OTHER EXTRANEOUS MATTER. APPLY TOP SOIL, FERTILIZER, LIME AND SOIL AMENDMENTS AND THOROUGHLY BLEND PLANTING SOIL MIX TO CREATE ACCEPTABLE PLANTING SOIL AS DESCRIBED THROUGH ANLA.
2. EXCAVATE CIRCULAR PITS AND TRENCHES WITH SIDES SLOPED INWARD, LEAVING THE CENTER AREA RAISED SLIGHTLY TO SUPPORT THE ROOT BALL AND ASSIST IN DRAINAGE. EXCAVATE APPROXIMATELY THREE TIMES AS WIDE AS BALL DIAMETER FOR BALLED AND BURLAPPED AND CONTAINER-GROWN STOCK. SCARIFY PIT OR TRENCH WALLS.

TREE, SHRUB, VINE, ORNAMENTAL GRASS AND GROUNDCOVER PLANTING

1. SET BALLED AND BURLAPPED OR CONTAINER-GROWN STOCK PLUMB AND CENTER OF PIT OR TRENCH WITH ROOT BALL 1 INCH ABOVE ADJACENT FINISHED GRADES.
2. REMOVE WIRE AND PALLETS ENTIRELY FROM ROOT BALL. REMOVE BURLAP FROM TOPS OF ROOT BALLS AND PARTIALLY FROM SIDES BUT DO NOT REMOVE FROM UNDER ROOT BALL.
3. PLACE PLANTING SOIL MIX AROUND ROOT BALL IN LAYERS, TAMPING TO SETTLE MIX AND ELIMINATE VOIDS AND AIR POCKETS. WHEN PIT IS APPROXIMATELY ONE-HALF BACKFILLED, WATER THOROUGHLY BEFORE PLACING REMAINDER OF BACKFILL. WATER AGAIN AFTER PLACING AND TAMPING FINAL LAYER OF PLANTING SOIL MIX.
4. APPLY 3-INCH MINIMUM AVERAGE THICKNESS OF ORGANIC MULCH EXTENDING 12 INCHES BEFORE EDGE OF PLANTING PIT OR TRENCH OR TO EDGE OF BEDLINE. DO NOT PLACE MULCH WITH 3 INCHES OF ROOT FLARE, TRUNK OR STEMS.
5. PRUNE, THIN AND SHAPE TREES AND SHRUBS ACCORDING TO STANDARD HORTICULTURAL PRACTICE AND TO RETAIN NATURAL CHARACTER. DO NOT CUT TREE LEADERS. REMOVE ONLY INJURED OR DEAD BRANCHES FROM FLOWERING TREES.
6. INSTALL GUYING AND STAKING PER MANUFACTURER'S SPECIFICATIONS. REMOVE GUY WIRES AND STAKES AFTER TWO PLANTING ESTABLISHMENT SEASONS.
7. DISPOSAL: REMOVE SURPLUS SOIL AND WASTE MATERIAL, INCLUDING EXCESS SUBSOIL, UNSUITABLE SOIL, TRASH, AND DEBRIS, AND LEGALLY DISPOSE OF THEM OFF OWNER'S PROPERTY.

PERMANENT SODDING SCHEDULE:

SEEDING DATE	SOD MIXTURE	PAD SIZES
AUG 25 - OCT (BEST) FEB - APR 15 (POSSIBLE)	LOCALLY GROWN MIN. 3 VARIETIES OF KENTUCKY BLUEGRASS AND FESCUE	MIN: 48 INCHES x 30 INCHES MAX. 5% DEVIATION IN SIZE BROKEN PADS UNACCEPTABLE

PRODUCT

PROVIDE STRONGLY ROOTED SOD, FREE OF WEEDS AND UNDESIRABLE NATIVE GRASSES. MACHINE CUT TO PAD THICKNESS OF 3/4 INCH, EXCLUDING TOP GROWTH AND THATCH. SOD SHALL BE HEALTHY AND GREEN WITH NO DEAD OR DISCOLORED SPOTS LARGER THAN 6".

SUBMITTALS

SUBMIT DATA FOR SOD AND SOURCE.

DELIVERY, STORAGE, HANDLING

DELIVER SOD ON PALLETS IN ROLLS. DO NOT DELIVER MORE SOD THAN CAN BE LAID WITH 24 HOURS.

SOIL AMENDMENTS

FOLLOW RECOMMENDATIONS OF SOIL TESTS OR APPLY 4,000 LB/AC GROUND AGRICULTURE LIMESTONE AND 1000 LB/AC 10-10-10 FERTILIZER.

MAINTENANCE

INSPECT AND REPAIR SOD AS NEEDED. REFERTILIZE IN LATE WINTER OF THE FOLLOWING YEAR; USE SOIL TESTS OR APPLY 150 LB/AC 10-10-10 FERTILIZER. MOW REGULARLY TO A HEIGHT OF 2-4 INCHES.

PERMANENT SODDING INSTALLATION:

EXAMINATION AND PREPARATION

1. INSTALLER TO EXAMINE AREAS TO RECEIVE PERMANENT SEEDING FOR COMPLIANCE WITH REQUIREMENTS AND CONDITIONS AFFECTING INSTALLATION AND PERFORMANCE. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.
2. REFER TO CIVIL DRAWINGS FOR EROSION AND SEDIMENT CONTROL MEASURES.

SOD BED ESTABLISHMENT

1. VERIFY SITE GRADING PRIOR TO INSTALLATION. ELIMINATE UNEVEN AREAS AND LOW SPOTS AND ENSURE POSITIVE DRAINAGE.
2. LOOSEN SUBGRADE TO A MINIMUM DEPTH OF 4 TO 6 INCHES. REMOVE STONES LARGER THAN 1 INCH IN ANY DIMENSION AND STICKS, ROOTS, RUBBISH AND OTHER EXTRANEOUS MATTER. APPLY TOP SOIL, FERTILIZER, LIME AND SOIL AMENDMENTS AND THOROUGHLY BLEND PLANTING SOIL MIX TO CREATE ACCEPTABLE PLANTING SOIL AS DESCRIBED THROUGH ANLA.
3. RAKE SOIL SURFACE SMOOTH PRIOR TO SODDING. SOIL SURFACE SHALL BE REASONABLE FREE OF LARGE CLODS, STONES GREATER THAN 3/4 INCH IN THE LONGEST DIMENSION, AND OTHER MATERIAL WHICH WILL INTERFERE WITH PLANT ESTABLISHMENT.
4. INSTALL EDGING AT PERIPHERY OF SODDED AREAS IN STRAIGHT LINES TO CONSISTENT DEPTH.

LAYING SOD

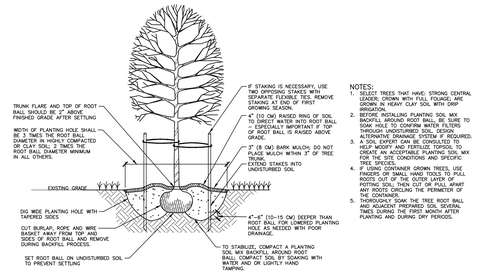
1. MOISTEN PREPARED SURFACE IMMEDIATELY PRIOR TO LAYING SOD.
2. LAY SOD WITHIN 24 FROM TIME OF STRIPING.
3. LAY SOD TIGHT TO FORM A SOLID MASS WITH NO OPEN JOINTS VISIBLE AND NO STRETCHING OR OVERLAPPING. STAGGER END JOINTS 12 INCHES MINIMUM. LEAVE A 36 INCH RADIUS AROUND ALL TREE TRUNKS FOR MULCH. WORK SIFTED SOIL INTO MINOR CRACKS BETWEEN PIECES OF SOD. REMOVE EXCESS TO AVOID SMOTHERING OF ADJACENT GRASS.
4. SOD ROLL LENGTH SHALL RUN PERPENDICULAR TO ALL SLOPE FALL LINES. PIN OR STAKE SOD STRIPS THAT ARE PLANTED ON SLOPES GREATER THAN 3:1 (33 PERCENT).
5. SOD SHALL LAY FLUSH WITH PAVING, CURBS AND IRRIGATION HEADS AND ONE INCH BELOW THE TOP OF STEEL EDGING.
6. WATER SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING.
7. AFTER SECOND WATERING AND WHEN SOIL AND SOD ARE MOIST, ROLL SOD LIGHTLY AS SOON AS POSSIBLE AFTER ITS LAID.
8. ADD TOPSOIL ALONG EXPOSED EDGES TO MATCH ADJACENT GRADE. FEATHER TOPSOIL OUT APPROXIMATELY ONE FOOT FROM EDGE OF SOD.

SOD MAINTENANCE

1. MOW GRASS AT REGULAR INTERVALS. DO NOT CUT MORE THAN 1/3 OF GRASS BLADE AT EACH MOWING. PERFORM FIRST MOWING WHEN SEEDLINGS ARE 40 PERCENT HIGHER THAN DESIRED HEIGHT.
2. IMMEDIATELY REMOVED CLIPPINGS AFTER MOWING. DO NOT LET CLIPPINGS LAY IN CLUMPS.
3. WATER TO PREVENT SOD AND SOIL FROM DRYING OUT.
4. INSPECT AND REPAIR ACCORDING TO THE SOD SCHEDULE.

WARRANTY & MAINTENANCE:

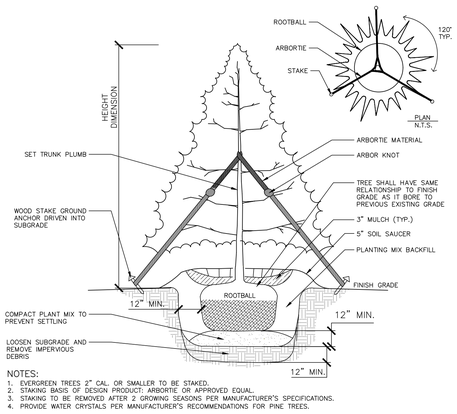
1. WARRANTY: INSTALLER SHALL REPAIR OR REPLACE ANY PLANTINGS THAT FAIL IN MATERIALS, WORKMANSHIP, OR GROWTH WITHIN ONE YEAR AFTER THE DATE OF SUBSTANTIAL COMPLETION. FAILURES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
   - DEATH AND UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM LACK OF ADEQUATE MAINTENANCE, NEGLECT, ABUSE BY OWNER, OR INCIDENTS THAT ARE BEYOND CONTRACTOR'S CONTROL.
   - STRUCTURAL FAILURES INCLUDING PLANTINGS FALLING OR BLOWING OVER.
2. MAINTENANCE: INITIAL MAINTENANCE SHALL BE PROVIDED IMMEDIATELY AFTER EACH AREA IS PLANTED AND CONTINUE UNTIL SUBSTANTIAL COMPLETION. UPON SUBSTANTIAL COMPLETION, MAINTENANCE FOR ALL PLANT MATERIAL SHALL BE PROVIDED FOR ONE YEAR AT A MINIMUM SHALL INCLUDE:
   - TREE AND SHRUB MAINTENANCE: MAINTAIN PLANTINGS BY PRUNING, CULTIVATING, WATERING, WEEDING, FERTILIZING, RESTORING PLANTING SAUCERS, AND RESETTING TO PROPER GRADES OR VERTICAL POSITION, AS REQUIRED TO ESTABLISH HEALTHY, VIABLE PLANTINGS. SPRAY OR TREAT AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE.
   - GROUND COVER AND PLANT MAINTENANCE: MAINTAIN AND ESTABLISH PLANTINGS BY WATERING, WEEDING, FERTILIZING, MULCHING, AND OTHER OPERATIONS AS REQUIRED TO ESTABLISH HEALTHY, VIABLE PLANTINGS.
   - PROTECT EXTERIOR PLANTS FROM DAMAGE DUE TO LANDSCAPE OPERATIONS, OPERATIONS BY OTHER CONTRACTORS AND TRADES, AND OTHERS. MAINTAIN PROTECTION DURING INSTALLATION AND MAINTENANCE PERIODS. TREAT, REPAIR, OR REPLACE DAMAGED PLANTINGS.



NOTES:
1. SELECT TREES THAT HAVE: STRONG CENTRAL LEADER, CROWN WITH FULL FOLIAGE, ARE GROWN IN HEAVY CLAY SOIL WITH DRIP IRRIGATION.
2. BEFORE INSTALLING PLANTING SOIL MIX BACKFILL, PERFORM A PERCOLATION TEST TO SOAK HOLE TO CONFIRM WATER FILTERS THROUGH UNDISTURBED SOIL. DESIGN ALTERNATIVE DRAINAGE SYSTEM IF REQUIRED.
3. A SOIL EXPERT CAN BE CONSULTED TO TEST EXISTING SOIL AND ADVISE HOW TO CREATE AN ACCEPTABLE PLANTING SOIL MIX FOR THE SITE CONDITIONS AND SPECIFIC PLANT NEEDS.
4. IF USING CONTAINER GROWN TREES, USE FINGERS OR SMALL HAND TOOLS TO PULL ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL; THEN CUT OR PULL APART ROOTS CIRCLING THE PERIMETER OF THE CONTAINER.
5. THOROUGHLY SOAK THE TREE ROOT BALL AND ADJACENT PREPARED SOIL SEVERAL TIMES DURING THE FIRST MONTH AFTER PLANTING AND DURING DRY PERIODS.

01 TREE INSTALLATION

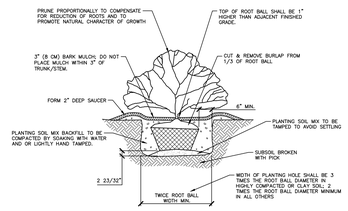
SCALE: 3/8"=1'-0"



NOTES:
1. EVERGREEN TREES 2" CAL. OR SMALLER TO BE STAKED.
2. STAKING BASIS OF DESIGN PRODUCT: ARBORTIE OR APPROVED EQUAL.
3. STAKING TO BE REMOVED AFTER 2 GROWING SEASONS PER MANUFACTURER'S SPECIFICATIONS.
4. PROVIDE WATER CRYSTALS PER MANUFACTURER'S RECOMMENDATIONS FOR PINE TREES.

02 EVERGREEN TREE INSTALLATION

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



03 SHRUB INSTALLATION

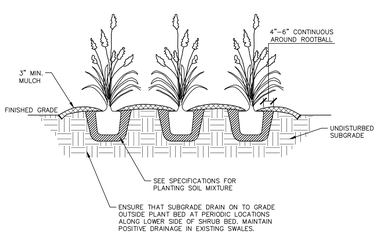
SCALE: 3/8"=1'-0"

GENERAL LANDSCAPE NOTES:

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RALEIGH AND THE STATE OF NORTH CAROLINA STANDARDS AND SPECIFICATIONS.
2. CONTRACTOR IS RESPONSIBLE FOR THE SITE INSPECTION BEFORE LANDSCAPE CONSTRUCTION AND INSTALLATION IN ORDER TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS.
3. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES BEFORE BEGINNING DEMOLITION OR INSTALLATION.
4. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE NOTES, SPECIFICATIONS, DRAWINGS OR SITE CONDITIONS FOR RESOLUTION PRIOR TO INSTALLATION.
5. ANY DAMAGE TO UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
6. THIS PLAN IS FOR PLANTING PURPOSES ONLY. FOR INFORMATION REGARDING BUILDINGS, GRADING, WALLS, ETC., REFER TO ARCHITECTURE, SITE AND GRADING PLANS.
7. VERIFICATION OF TOTAL PLANT QUANTITIES AS SHOWN IN THE PLANT SCHEDULE SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.
8. CONTRACTOR TO ENSURE PROPER STABILIZATION AND SEEDING OF THE SITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.
9. LANDSCAPE MATERIAL SHALL BE WELL FORMED, VIGOROUS, GROWING SPECIMENS WITH GROWTH TYPICAL OF VARIETIES SPECIFIED AND SHALL BE FREE FROM DAMAGE, INSECTS AND DISEASES. MATERIAL SHALL EQUAL OR SURPASS #1 QUALITY AS DEFINED IN THE CURRENT ISSUE OF "AMERICAN STANDARD FOR NURSERY STOCK" AS PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION.
10. ALL PLANT MATERIAL IS TO BE CAREFULLY HANDLED BY THE ROOT BALL, NOT THE TRUNK, BRANCHES AND/OR FOLIAGE OF THE PLANT. MISHANDLED PLANT MATERIAL MAY BE REJECTED BY THE LANDSCAPE ARCHITECT.
11. ALL PLANT MATERIAL IS TO BE WELL ROOTED, NOT ROOT BOUND, SUCH THAT THE ROOT BALL REMAINS INTACT THROUGHOUT THE PLANTING PROCESS. DEFICIENT PLANT MATERIAL MAY BE REJECTED BY THE LANDSCAPE ARCHITECT OR OWNER.
12. ALL PLANTS TO BE A MINIMUM OF WHAT IS SPECIFIED IN THE PLANT SCHEDULE. ANY CHANGES OR SUBSTITUTIONS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT AND GOVERNING JURISDICTION PRIOR TO ANY HOLE BEING DUG.
13. CONTRACTOR TO COORDINATE WITH OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT TO ESTABLISH THE EXTENTS OF MULCH/SEED/SOD IF NOT SPECIFICALLY SHOWN ON PLANS.
14. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE IN ALL PLANTING AREAS.
15. PROPOSED TREES TO BE PLANTED A MINIMUM 10 FEET FROM ANY LIGHT POLE AS MEASURED FROM TRUNK OF THE TREE TO THE POLE.
16. PROPOSED TREES TO BE PLANTED A MINIMUM 5 FEET FROM ANY FIRE HYDRANT AS MEASURED FROM TRUNK OF THE TREE TO THE HYDRANT.
17. CONTRACTOR SHALL COMPLETE SOIL TEST IN ALL PLANTING AREAS TO DETERMINE SOIL AMENDMENT REQUIREMENTS UNLESS WAIVED BY OWNER'S REPRESENTATIVE. CONTRACTOR SHALL ADJUST PH AND FERTILITY BASED UPON THE SOIL TEST RESULTS.
18. TOPSOIL SHALL BE FREE OF MATERIAL LARGER THAN 1.0 INCH IN DIAMETER OR LENGTH AND SHALL NOT CONTAIN SLAG, CINDERS, STONES, LUMPS OF SOIL, STICKS, ROOTS, TRASH, OR OTHER EXTRANEOUS MATERIAL.
19. LOOSEN SUBGRADE / SURFACE SOIL TO A MINIMUM DEPTH OF 6 INCHES. APPLY SOIL AMENDMENTS AND FERTILIZERS AS REQUIRED BY THE SOIL TEST RESULTS TO ACHIEVE A HEALTHY GROWING MEDIA AND MIX THOROUGHLY INTO TOP 4 INCHES OF SOIL. SPREAD PLANTING SOIL MIX TO A DEPTH OF 6 INCHES BUT NOT LESS THAN REQUIRED TO MEET FINISH GRADES AFTER NATURAL SETTLEMENT. DO NOT SPREAD IF PLANTING SOIL OR SUBGRADE IS FROZEN, MUDDY, OR EXCESSIVELY WET.
20. IF IMPORTED TOPSOIL IS REQUIRED, THE SUBGRADE SHALL BE SCARIFIED OR TILLED TO A DEPTH OF AT LEAST 6 INCHES PRIOR TO INSTALLATION OF IMPORTED TOPSOIL. FOLLOWING INSTALLATION OF IMPORTED TOPSOIL, THE TOPSOIL SHALL BE TILLED TO INTEGRATE THE SOIL PROFILES.
21. PLANT MATERIALS ARE TO BE GUARANTEED FOR A PERIOD OF 12 MONTHS. PLANT MATERIALS WHICH REMAIN UNHEALTHY WILL BE REPLACED BY THE LANDSCAPE CONTRACTOR BEFORE THE EXPIRATION OF THE GUARANTEE PERIOD OR IMMEDIATELY IF SO DIRECTED BY THE OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT.
22. ALL TREE PLANTINGS SHALL BE MULCHED TO A DEPTH OF 3 INCHES, AND WITH A MINIMUM 3 FOOT RADIUS FROM BASE OF TREE OR TO DRIPLINE. MULCH SHALL BE FREE OF TRASH AND MAINTAINED WEED FREE. MULCH SHALL NOT COVER THE ROOT FLARE. CONFIRM MULCH SPECIFICATIONS WITH OWNER'S REPRESENTATIVE OR LANDSCAPE ARCHITECT.
23. DO NOT PRUNE TREES AND SHRUBS BEFORE DELIVERY. PROTECT BARK, BRANCHES, AND ROOT SYSTEMS FROM SUN SCALD, DRYING, SWEATING, WHIPPING, AND OTHER HANDLING AND TYING DAMAGE. DO NOT BEND OR BIND-TIE TREES OR SHRUBS IN SUCH A MANNER AS TO DESTROY THEIR NATURAL SHAPE. PROVIDE PROTECTIVE COVERING OF EXTERIOR PLANTS DURING DELIVERY. DO NOT DROP EXTERIOR PLANTS DURING DELIVERY AND HANDLING.
24. DELIVER EXTERIOR PLANTS AFTER PREPARATIONS FOR PLANTING HAVE BEEN COMPLETED AND INSTALL IMMEDIATELY. IMMEDIATELY AFTER UNLOADING, STAND THE TREES UP TO REDUCE THE RISK OF SUN SCALD. PROPERLY STAGED TREES ARE STANDING, UNTIED AND SPACED. UNLESS IMMEDIATELY INSTALLED, SET EXTERIOR PLANTS AND TREES IN SHADE, PROTECT FROM WEATHER AND MECHANICAL DAMAGE, AND KEEP ROOTS MOIST.
25. SEE LANDSCAPE DETAILS FOR TREE STAKING REQUIREMENTS.
26. EXCAVATE EDGES OF ALL PLANTING BEDS TO 2 INCH DEPTH TO FORM A NEAT AND CRISP DEFINITION.
27. CONTRACTOR SHALL REMOVE DEBRIS AND FINE GRADE ALL PLANTING AREAS PRIOR TO INSTALLATION.
28. REMOVE GUY WIRES AND STAKES AT END OF WARRANTY PERIOD OR ESTABLISHMENT.
29. FINISH GRADING: GRADE PLANTING AREAS TO A SMOOTH, UNIFORM SURFACE PLANE WITH LOOSE, UNIFORMLY FINE TEXTURE. GRADE TO WITHIN PLUS OR MINUS 1/2 INCH OF FINISH ELEVATION. ROLL AND RAKE, REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISH GRADES. LIMIT FINISHED GRADING TO AREAS THAT CAN BE PLANTED IN THE IMMEDIATE FUTURE.

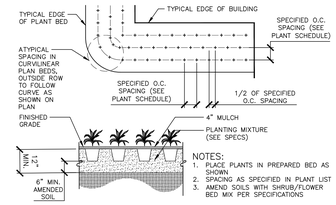
04 GROUNDCOVER PLANTING

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



05 ORNAMENTAL GRASS PLANTING

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



NOTES:
1. PLACE PLANTS IN PREPARED BED AS SHOWN.
2. SPACING AS SPECIFIED IN PLANT LIST
3. AMEND SOILS WITH SHRUB/FLOWER BED MIX PER SPECIFICATIONS

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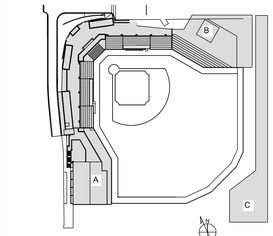
SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 2126 BRIAN T. KISKO 9/3/2024

REVISIONS

NO.	BY	DESCRIPTION	DATE
	EC	ISSUE TO BID	09/03/2024

NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	BTK	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	1" = 10'

DRAWING NAME

LANDSCAPE DETAILS AND SCHEDULE

FLOOR/SECTION PHASE	DRAWING NO.
BID	L5.03

GENERAL ABBREVIATIONS

Ø	DIAMETER	EA	EACH	K	KIP	REF	REFERENCE
&	AND	EB	EXPANSION BOLT	KIT	KITCHEN	REFR	REFRIGERATION
@	AT	EF	EACH FACE	KO	KNOCK OUT	REG	REGISTER
#	NUMBER, POUND	EIFS	EXTERIOR INSULATION & FINISH SYSTEM	KPL	KICK PLATE	REINF	REINFORCE(D)(ING)(MENT)
±	APPROXIMATELY	EJ	EXPANSION JOINT			REQD	REQUIRED
(E)	EXISTING	EL	ELEVATION (GRADE, FLOOR)	L	LONG	RES	RESILIENT
		ELEC	ELECTRIC(AL)	LAB	LABORATORY	RET	RETAINING, RETURN
AB	ANCHOR BOLT	ELEV	ELEVATION (BLDG), ELEVATOR	LAM	LAMINATE(D)(ION)	REV	REVISION
ABR	ABRASIVE	EMBMT	EMBEDMENT	LAT TIE	LATERAL TIEBACK FOR APC PANEL	RFG	ROOFING
ABV	ABOVE	EMER	EMERGENCY	LAV	LAVATORY	RJ	RUSTICATION JOINT
AC	AIR CONDITIONING	ENCL	ENCLOSURE	LB	POUND	RLG	RAILING
ACC	ACCESS(IBLE)	ENGR	ENGINEER(ING)	LIN	LINEAR	RM	ROOM
ACIP	ARCHITECTURAL CAST IN PLACE CONCRETE	ENTR	ENTRANCE	LKR	LOCKER	RO	ROUGH OPENING
ACOUS	ACOUSTIC(AL)	EP	ELECTRICAL PANELBOARD	LL	LIVE LOAD, LEAD LINED	RS	RESILIENT SHEET
ACT	ACOUSTICAL CEILING TILE	EQ	EQUAL	LLH	LONG LEG HORIZONTAL	RT	RESILIENT TILE
AD	AREA DRAIN	EQUIP	EQUIPMENT	LLV	LONG LEG VERTICAL	RWC	RAIN WATER CONDUCTOR
ADH	ADHESIVE	EW	EACH WAY	LP	LIGHT PROOF, LOW PRESSURE, LOW POINT		
ADJ	ADJACENT, ADJUSTABLE	EWC	ELECTRIC WATER COOLER	LTG	LIGHTING	SAFB	SOUND ATTENUATION FIRE BLANKET
AFF	ABOVE FINISHED FLOOR	EWS	EYE WASH STATION	LVR	LOUVER	SAN	SANITARY
AGGR	AGGREGATE	EXH	EXHAUST			SB	SPLASH BLOCK
AIB	AIR INFILTRATION BARRIER	EXIST	EXISTING	M	METER	SCHED	SCHEDULE
AL	ALUMINUM	EXP	EXPANSION	M	MEN'S	SECT	SECTION
ALT	ALTERNATE	EXT	EXTERIOR	MACH	MACHINE	SECY	SECRETARY
AP	ACCESS PANEL	EXTR	EXTRUDED	MAS	MASONRY	SF	SQUARE FEET
APC	ARCHITECTURAL PRECAST CONCRETE			MATL	MATERIAL	SFRM	SPRAYED FIRE-RESISTANT MATERIAL
APPROX	APPROXIMATE	FA	FIRE ALARM	MAX	MAXIMUM	SGL	SINGLE
ARCH	ARCHITECT(URAL)	FCU	FAN COIL UNIT	MB	MARKER BOARD	SH	SHELF
AVB	AIR & VAPOR BARRIER	FD	FLOOR DRAIN	MBR	MEMBER	SHR	SHOWER
		FDC	FIRE DEPARTMENT CONNECTION	MDF	MEDIUM DENSITY FIBERBOARD	SHT	SHEET(ING)
BD	BOARD	FDN	FOUNDATION	MECH	MECHANICAL	SHTNG	SHEATHING
BG	BUMPER GUARD	FE	FIRE EXTINGUISHER	MEMB	MEMBRANE	SIM	SIMILAR
BIT	BITUMINOUS	FEC	FIRE EXTINGUISHER CABINET	MET	METAL	SK	SINK
BKR	BACKER	FF	FINISH FLOOR	MEZZ	MEZZANINE	SL	SEALANT
BLDG	BUILDING	FGB	FIBERGLASS FACED SILICONE TREATED	MFR	MANUFACTURER	SMLS	SEAMLESS
BLK	BLOCK		GYPSUM CORE SHEATHING BOARD	MH	MANHOLE	SP	SPACE(ING)
BLKG	BLOCKING	FGL	FIBERGLASS	MIFRC	MASTIC INTUMESCENT FIRE RESISTIVE COATING	SPEC	SPECIFICATION
BLW	BELOW	FH	FLATHEAD	MIN	MINIMUM	SPF	SPRAY FOAM
BM	BEAM, BENCHMARK	FIN	FINISH	MIR	MIRROR	SPFI	SPRAY POLYURETHANE FOAM INSULATION
BOT	BOTTOM	FL	FLASHING	MISC	MISCELLANEOUS	SPKR	SPEAKER
BR	BEDROOM	FLDG	FOLDING	MJ	MOVEMENT JOINT (IN MASONRY)	SPR	SPRINKLER
BRCG	BRACING	FLR	FLOOR	MLDG	MOLDING	SQ	SQUARE
BRG	BEARING	FLUOR	FLUORESCENT	MLWK	MILLWORK	SR	SERVICE RECEPTOR
BRK	BRICK	FM	FLOOR MAT	MM	MILLIMETER	SS	SERVICE SINK
BRKT	BRACKET	FOC	FACE OF CONCRETE	MO	MASONRY OPENING	SST	STAINLESS STEEL
BS	BOTH SIDES, BACKSPLASH	FOF	FACE OF FINISH	MSCQ	METAL STUD CURTAIN WALL	SSUR	SOLID SURFACING
BSMT	BASEMENT	FOM	FACE OF MASONRY	MTD	MOUNTED	STA	STATION
BTWN	BETWEEN	FOW	FACE OF WALL	MTG	MOUNTING	STAGG	STAGGERED
		FP	FROST PROOF	MULL	MULLION	STC	SOUND TRANSMISSION CLASS
C/C	CENTER TO CENTER	FPRF	FIREPROOF(ED)(ING)	MW	MINERAL WOOL	STD	STANDARD
CAB	CABINET	FR	FRAME	MWF	MEMBRANE WALL FLASHING	STIFF	STIFFENER
CB	CATCH BASIN, CHALKBOARD, CONTROL BOX	FRT	FIRE RETARDANT TREATED			STL	STEEL
CBP	COMPOSITE BUILDING PANEL	FS	FAR SIDE, FULL SIZE	N	NORTH	STOR	STORAGE
CEM	CEMENT	FSFG	FIRE SAFING	NA	NOT APPLICABLE	STR	STRUCTURAL
CFI	CONTRACTOR FURNISHED AND INSTALLED	FSP	FIRE STAND PIPE	NF	NEAR FACE	SUPP	SUPPORT
CFMF	COLD FORMED METAL FRAMING	FT	FOOT, FEET	NIC	NOT IN CONTRACT	SURF	SURFACE
CG	CORNER GUARD	FTG	FOOTING	NO	NUMBER	SUSP	SUSPENDED
CH	CEILING HEIGHT	FTR	FINNED TUBE RADIATION	NOM	NOMINAL	SYM	SYMBOL, SYMMETRICAL
CI	CAST IRON	FURN	FURNITURE	NRC	NOISE REDUCTION COEFFICIENT	SYS	SYSTEM
CIP	CAST IN PLACE CONCRETE	FURR	FURRING	NS	NEAR SIDE		
CJ	CONTROL JOINT	FUT	FUTURE	NSF	NET SQUARE FEET	T	TREAD, FLUSH MOUNTED TELEPHONE
CL	CENTERLINE, CLOSET	FWC	FABRIC WALL COVERING	NTS	NOT TO SCALE	T&G	TONGUE AND GROOVE
CLG	CEILING	FXTR	FIXTURE			TA	TOILET ACCESSORIES
CLR	CLEAR			OA	OVERALL	TB	TACKBOARD, TOWEL BAR
CMPTR	COMPUTER	GA	GAUGE	OC	ON CENTER	TBD	TO BE DETERMINED
CMU	CONCRETE MASONRY UNIT	GALV	GALVANIZED	OD	OUTSIDE DIAMETER	TEL	TELEPHONE
COL	COLUMN	GC	GENERAL CONTRACTOR	OF	OUTSIDE FACE	TEMP	TEMPORARY, TEMPERED
COMM	COMMUNICATION	GFRG	GLASS FIBER REINFORCED GYPSUM	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED	TERR	TERRAZZO
COMP	COMPRESSIBLE	GGBFS	GROUND GRANULATED BLAST FURNACE SLAG	OFF	OFFICE	THK	THICK(NESS)
CONC	CONCRETE	GL	GLASS	OFOI	OWNER FURNISHED OWNER INSTALLED	TOB	TOP OF BEAM
CONF	CONFERENCE	GR	GRADE	OH	OPPOSITE HAND, OVERHEAD	TOC	TOP OF CURB, CONCRETE
CONST	CONSTRUCTION	GRC	GLASS FIBER REINFORCED CONCRETE	OPNG	OPENING	TOP	TOP OF PEDESTAL
CONST JT	CONSTRUCTION JOINT	GRL	GRILLE	OPP	OPPOSITE	TOS	TOP OF STEEL
CONT	CONTINUOUS	GRTG	GRATING			TOSL	TOP OF SLAB
CONTR	CONTRACTOR	GSF	GROSS SQUARE FEET	PAR	PARALLEL	TOW	TOP OF WALL
CONV	CONVECTOR	GSKT	GASKET	PASS	PASSAGE, PASSENGER	TR	TOILET ROOM
COORD	COORDINATE	GWB	GYPSUM WALLBOARD	PB	PUSH BUTTON	TRANS	TRANSITION
CORR	CORRIDOR, CORRUGATED	GYP	GYPSUM	PBD	PARTICLE BOARD	TS	TUBE STEEL
CPT	CARPET			PC	PRECAST (STRUCTURAL)	TV	TELEVISION
CR	CRASH RAIL	H	HIGH	PED	PEDESTAL	TYP	TYPICAL
CRS	COURSE	HC	HANDICAPPED	PER	PERIMETER		
CS	CAST STONE	HCT	HANDICAPPED ACCESSIBLE TOILET	PERP	PERPENDICULAR	UC	UNDERCOUNTER
CSK	COUNTERSUNK	HD	HEAD	PF	PREFABRICATED PANEL	UH	UNIT HEATER
CSWK	CASEWORK	HDBD	HARDBOARD	PGBD	PEGBOARD	UNEX	UNEXCAVATED
CT	CERAMIC TILE	HDW	HARDWARE	PL	PLATE, PROPERTY LINE	UNFIN	UNFINISHED
CTR	CENTER	HDWD	HARDWOOD	PLAM	PLASTIC LAMINATE	UNO	UNLESS NOTED OTHERWISE
CTS	COUNTERTOP SINK	HFS	HALF FULL SIZE	PLAS	PLASTIC	UR	URINAL
CUB	CUBICLE	HGT	HEIGHT	PLAT	PLATFORM	UTIL	UTILITY
CUH	CABINET UNIT HEATER	HM	HOLLOW METAL	PLBG	PLUMBING		
		HORIZ	HORIZONTAL	PLK	PLANK	VAR	VARIES
D	DEPTH	HP	HIGH POINT, HIGH PRESSURE,	PLWD	PLYWOOD	VB	VAPOR BARRIER
DBL	DOUBLE		HORSE POWER	PNEU	PNEUMATIC	VCT	VINYL COMPOSITION TILE
DEMO	DEMOLITION	HR	HOUR, HANDRAIL	PNL	PANEL	VEN	VENEER
DEPT	DEPARTMENT	HVAC	HEATING, VENTILATION, AIR CONDITIONING	PNT	PAINT	VERT	VERTICAL
DET	DETAIL			PR	PAIR	VEST	VESTIBULE
DF	DRINKING FOUNTAIN	ID	INSIDE DIAMETER	PREFAB	PREFABRICATED	VIF	VERIFY IN FIELD
DIA	DIAMETER	IF	INSIDE FACE	PRELIM	PRELIMINARY	VIN	VINYL
DIM	DIMENSION	IN	INCH	PSF	POUNDS PER SQUARE FOOT	VOL	VOLUME
DISP	DISPENSER	INCL	INCLUDING	PSI	POUNDS PER SQUARE INCH	VP	VENEER PLASTER
DMPF	DAMPPROOFING	INS	INSULATION	PT	POINT, PRESSURE TREATED	VT	VINYL TILE
DN	DOWN	INT	INTERIOR		(FOR MOISTURE)	VTR	VENT THRU ROOF
DO	DITTO	INV	INVERT	PTD	PAINTED	VWC	VINYL WALL COVERING
DR	DOOR			PTN	PARTITION		
DS	DOWNSPOUT	JAN	JANITOR			W	WIDE, WOMEN'S
DW	DISHWASHER	JB	JUNCTION BOX	QT	QUARRY TILE	W/	WITH
DWG	DRAWING	JCT	JUNCTION			W/O	WITHOUT
DWL	DOWEL	JST	JOIST	R	RISER	WC	WATER CLOSET, WHEELCHAIR
DWR	DRAWER	JT	JOINT	RAD	RADIUS	WD	WOOD
DWTR	DUMBWAITER			RAF	RAISED ACCESS FLOOR	WF	WIDE FLANGE
				RBR	RUBBER	WIN	WINDOW
				RCP	REFLECTED CEILING PLAN	WM	WALK OFF MAT
				RD	ROOF DRAIN	WP	WORKING POINT, WATERPROOF(ING),
				REC	RECESSED		WALL PROTECTION
				RECPT	RECEPTACLE	WR	WATER RESISTANT, WASTE RECEPTOR
				RECT	RECTANGULAR	WS	WATER STOP
						WSCT	WAINSCOT
						WT	WEIGHT, WINDOW TREATMENT

SYMBOL LEGEND

BRICK

CONCRETE

CONCRETE MASONRY UNIT

CRUSHED STONE

EARTH

GYPSUM WALL BOARD

INSULATION (BATT)

INSULATION (RIGID)

METAL (ALUMINUM)

METAL (STEEL, IRON)

PLYWOOD

WOOD FINISH

WOOD FRAMING & BLOCKING

PROJECT AREA LINE

THIS LINE GENERALLY INDICATES THE AREA WHERE THE WORK OF THIS PROJECT OCCURS. SOME INCIDENTAL WORK MAY OCCUR OUTSIDE THIS LINE.

PROPERTY LINE

1 / A — COLUMN REFERENCE GRID

UP — SLOPE UP

DN — SLOPE DOWN

TRUE NORTH / BUILDING NORTH — KEYPLAN COMBINATION NORTH ARROW

N — KEYPLAN COMBINATION NORTH ARROW

FLOOR ELEVATION EL 20'-0"

EXIST WALLS, DOORS (SCREENED)

DEMOLITION WALLS, DOORS (DASHED)

NEW WALLS, DOORS (SOLID)

123 — DOOR TAG

6" UNLESS NOTED OTHERWISE

ROOM NAME 123 — ROOM NAME AND NUMBER

Floor Finish / Base Finish / Wall Finish / Ceiling Finish — ROOM FINISHES

ELEVATION REFERENCES (ARROW INDICATES DIRECTION OF VIEW)

A3.2 / 1 — EXTERIOR ELEVATION NUMBER A3.2 *(SHEET NUMBER NOT REQUIRED IF DETAIL ELEVATION IS ON SAME SHEET)*

3 — INTERIOR ELEVATION NUMBER *(DETAIL ELEVATION ON SAME SHEET)*

A5.1.1 / 1 / 2 / 3 — MULTIPLE ELEVATION NUMBER A5.1.1 *(SHEET NUMBER NOT REQUIRED IF DETAIL ELEVATION IS ON SAME SHEET)*

1 / A3.3.2 TYP — DETAIL NUMBER, SHEET NUMBER A3.3.2, NOTE

SECTION/DETAIL REFERENCES (ARROW INDICATES DIRECTION OF VIEW)

1 / A3.3.1.5 TYP — BUILDING SECTION NUMBER, SHEET NUMBER A3.3.15, NOTE

1 / A3.3.1.5 TYP — WALL SECTION NUMBER, SHEET NUMBER A3.3.15, NOTE

1 / A3.3.1.5 TYP — PLAN/SECTION DETAIL NUMBER, SHEET NUMBER A3.3.15, NOTE

DETAIL PLAN/ELEVATION (BOX INDICATES AREA OF VIEW)

1 / A2.1 — DETAIL NUMBER, SHEET NUMBER

G3A / 2 G3A — PARTITION TYPE, REFER TO A4.2

DIMENSION TO FACE

DIMENSION TO CENTERLINE (TYP DIM. TO CENTERLINE OF PTN)

DIMENSION CONTINUES

LIMIT OF WORK

AREA OF REVISION

1 — REVISION

1 — DEMOLITION AND/OR ALTERATION NOTE

WORK POINT, CONTROL POINT, OR DATUM POINT

101 — SHEET KEYNOTE

15 — CASEWORK UTILITY (INDIVIDUAL)

15 — CASEWORK UTILITY (GROUP)

L2 — LOUVER TYPE

W2 — WINDOW TYPE

AP — ACCESS PANEL

EP — ELECTRIC PANEL

FEC — FIRE EXTINGUISHER CABINET

CR — CARD READER

A — ACTUATOR (POWER OPERATOR)

PB — PUSH BUTTON (RELEASE)

SENSORS (DOOR CONTROL)

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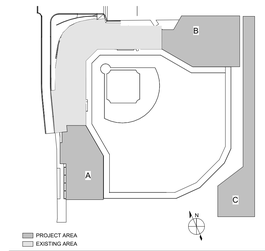
CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



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9/3/2024

REVISIONS

NO.	BY	DESCRIPTION	DATE
	EC	ISSUE FOR BID	09/03/2024

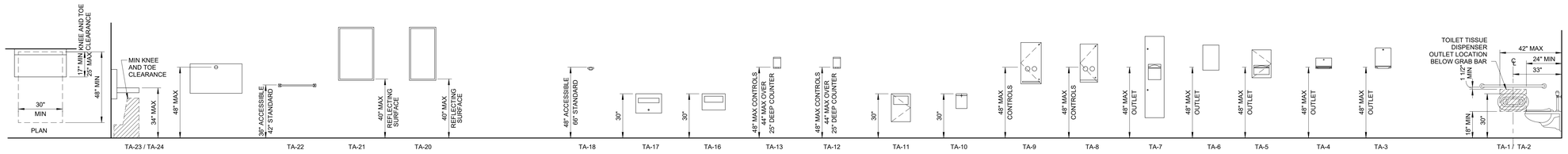
NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY CB, GW | DATE 09/03/2024
PROJECT NO. 20220400 | SCALE As indicated
DRAWING NAME

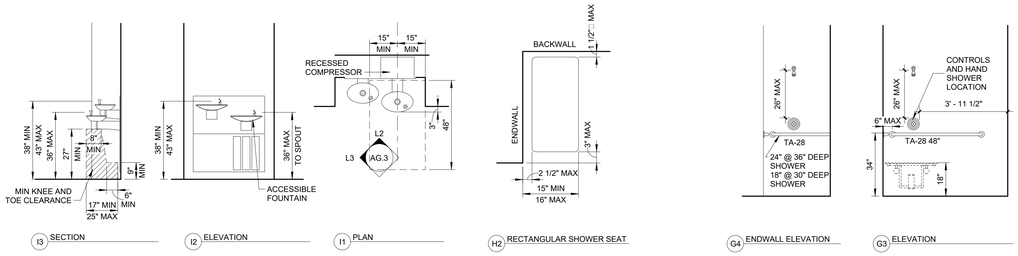
ABBREVIATIONS & SYMBOL LIST

FLOOR/SECTION PHASE: BID | DRAWING NO.: AG0.2



J ACCESSORY MOUNTING HEIGHTS
SCALE: 3/8" = 1'-0"

1. 48" MAX HEIGHT IS FOR UNOBSTRUCTED FORWARD REACH. 2. ALL OF AN OPERABLE PART IS TO BE WITHIN MOUNTING HEIGHT. 3. FOR SURFACE MOUNTED ACCESSORIES AND RECESSED ACCESSORIES PROJECTING MORE THAN 1/4" MAX, COORDINATE CLEARANCE AROUND GRAB BARS. REFER TO DETAIL G. 4. RECESSED FIXTURES SHOULD NOT BE LOCATED IN FIRE RATED PARTITIONS.

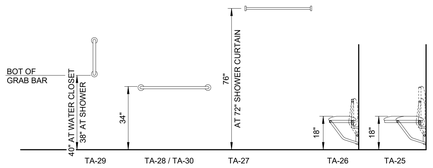


I3 SECTION | I2 ELEVATION | I1 PLAN | H2 RECTANGULAR SHOWER SEAT | G4 ENDWALL ELEVATION | G3 ELEVATION

I ACCESSIBLE AND NON-ACCESSIBLE RECESSED DRINKING FOUNTAIN
SCALE: 3/8" = 1'-0"

H ACCESSIBLE SHOWER SEATS
SCALE: 3/4" = 1'-0"

G ACCESSIBLE STANDARD ROLL-IN SHOWER
SCALE: 3/8" = 1'-0"



F ACCESSORY MOUNTING HEIGHTS
SCALE: 3/8" = 1'-0"

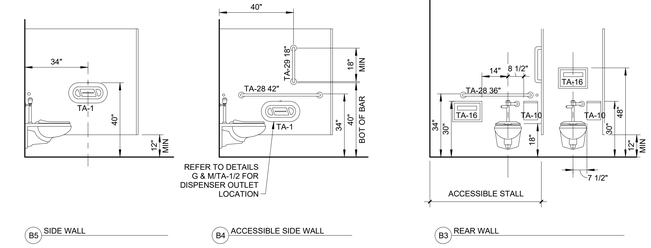
D3 SECTION | D2 ELEVATION | D1 PLAN

D URINALS
SCALE: 3/8" = 1'-0"

C3 ELEVATION AT BACK WALL | C2 ELEVATION AT SIDE WALL | C1 PLAN

C LAVATORIES
SCALE: 3/8" = 1'-0"

E GRAB BAR SPACING
SCALE: 1 1/2" = 1'-0"



B5 SIDE WALL | B4 ACCESSIBLE SIDE WALL | B3 REAR WALL | B2 ACCESSIBLE END STALL PLAN | B1 PLAN

B TOILET COMPARTMENTS
SCALE: 3/8" = 1'-0"

A4 ELEVATION @ SIDE WALL | A3 ELEVATION @ SIDE WALL | A2 ELEVATION @ BACK WALL | A1 PLAN

A ACCESSIBLE SINGLE USER TOILET ROOM - ALIGNED BACK WALL
SCALE: 3/8" = 1'-0"

MOUNTING NOTES

1. THIS DRAWING IS FOR MOUNTING LOCATION INFORMATION ONLY. SOME ITEMS OR CONDITIONS MAY BE SHOWN WHICH ARE NOT INCLUDED IN THIS PROJECT, THEY MAY BE DISREGARDED.
2. IF WITHIN THE DOCUMENTS THERE ARE CONDITIONS OR STATEMENTS WHICH CONFLICT WITH THESE GUIDELINES, NOTIFY THE ARCHITECTURAL REPRESENTATIVE IMMEDIATELY FOR FURTHER DIRECTIONS.
3. DIMENSIONS ARE TO FACE OF WALL FINISH.
4. WARM AIR DRYERS ARE LISTED SEPARATELY
5. 48" MAX HEIGHT IS FOR UNOBSTRUCTED FORWARD REACH.
6. ALL OF AN OPERABLE PART IS TO BE WITHIN MOUNTING HEIGHT
7. FOR SURFACE MOUNTED ACCESSORIES AND RECESSED ACCESSORIES PROJECTING MORE THAN 1/4" MAX, COORDINATE CLEARANCE AROUND GRAB BARS. SEE DETAIL E.
8. RECESSED FIXTURES SHALL NOT BE LOCATED IN FIRE RATED PARTITIONS.

ACCESSORY LEGEND

TA-1 SURFACE TOILET TISSUE DISPENSER KIMBERLY CLARK PROFESSIONAL JRT COMBO UNIT - #09551
TA-3 SURFACE PAPER TOWEL / LARGE - KIMBERLY-CLARK #9990
TA-10 SURFACE SANITARY NAPKIN DISPOSAL - BOBRICK B-270
TA-13 SURFACE SOAP DISPENSER - GOJO FMX_12 MODEL #5250-06
TA-17 RECESSED SEAT COVER DISPENSER - BOBRICK-B3013
TA-18 HOOK - BOBRICK B-6827
TA-20 FRAMED MIRROR 18"x36" - BOBRICK B-290 1836
TA-28 GRAB BAR STRAIGHT HORIZONTAL - BOBRICK B-6806
TA-29 GRAB BAR STRAIGHT VERTICAL - BOBRICK B-6806

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CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN

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JASON C. KOLLMAN REGISTERED ARCHITECT 11036 NORTH CAROLINA CHARLOTTE, NC 9/3/2024

REVISIONS

NO.	BY	DESCRIPTION	DATE
	EC	ISSUE FOR BID	09/03/2024

NC STATE UNIVERSITY

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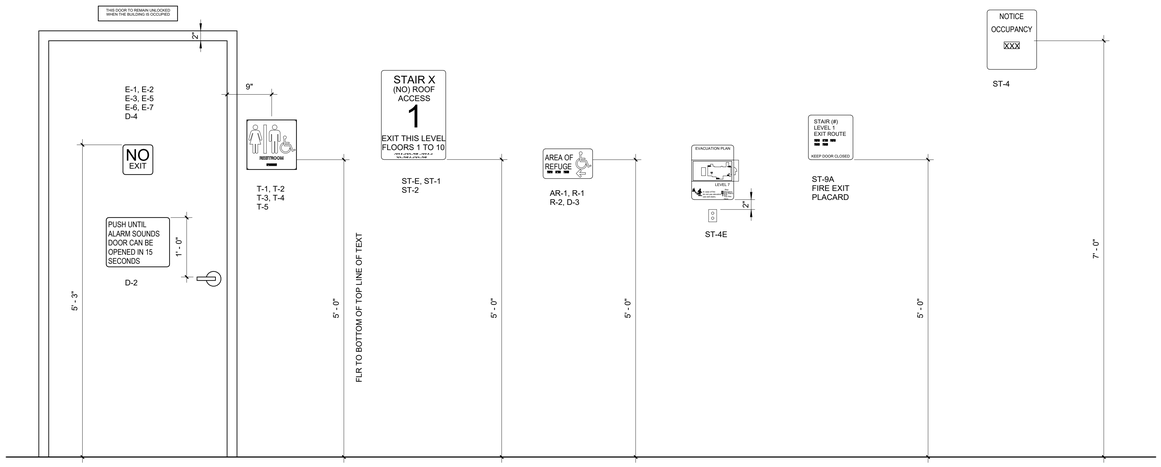
DRAWN BY	CB, GW	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	As indicated

DRAWING NAME
MOUNTING HEIGHTS & CLEARANCES

FLOOR/SECTION PHASE: BID
DRAWING NO.: AG0.3



M MOUNTING HEIGHTS AND CLEARANCES
SCALE: 1" = 1'-0"

ST-9 ST-9A

ST STAIR SIGNS
SCALE: 3" = 1'-0"

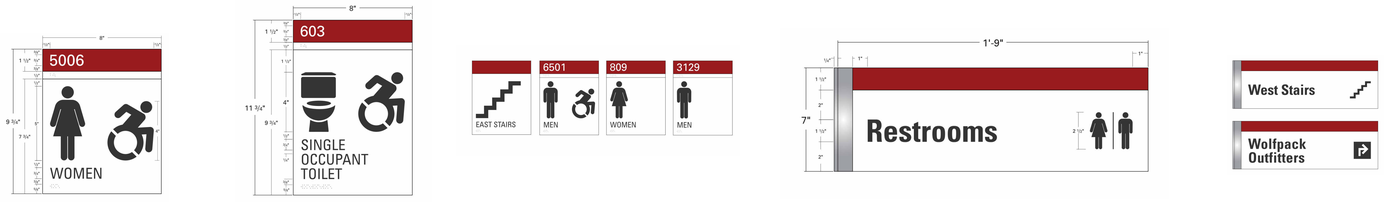
ST-1 ST-2 ST-4 ST-6C ST-6C ST-4E

MATERIAL
BACK PLATE: 17.5" WIDE X 15" HIGH WHITE ACRYLIC, TAPPED AND THREADED HOLES TO RECIEVE MECHANICAL FASTNENERS, ATTACHED TO WALL WITH FOAM TAPE

TYPOGRAPHY
HEADER: UNIVERS 55, 3/4" CAP HEIGHT, RAISED LETTERS APPLIQUE, 1/32" 1-PLY ADA ALTERNATIVE BY ROWMARK COLOR #311201

INFORMATION COPPY: UNIVERS 57, 1/2" CAP HEIGHT, GRAY CUT VINYL APPLIED TO FIRST SURGACE OF BACK PLATE

R TYPICAL ROOM SIGNAGE
SCALE: 3" = 1'-0"



ST-6 ST-6A ST-6C

T TOILET ROOM SIGNS
SCALE: 3" = 1'-0"

ST-11 ST-11A

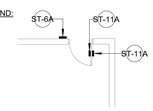
E EXIT SIGNS
SCALE: 3" = 1'-0"

SIGNAGE NOTES

1. FOR SIGNAGE TYPE ST-4E: PROVIDE UNIQUE SIGN FOR EACH LOCATION INDICATING APPLICABLE FLOOR LEVEL, BUILDING PLAN, AND "YOU ARE HERE" LOCATION.
2. ALL BRAILLE IS GRADE 2.
3. ALL RAISED CHARACTERS ARE BETWEEN 5/8" & 2" IN HEIGHT & MADE IN CONTRASTING COLOR TO THE BACKGROUND.
4. ALL RAISED CHARACTERS, BRAILE, AND PICTOGRAMS TO BE LOCATED BETWEEN 48-IN AND 60-IN AFF.
5. WHERE A SIGN IS PROVIDED AT A DOOR, INSTALL AT LATCH SIDE. SIGNS ON DOUBLE DOORS WITH TWO ACTIVE LEAFS SHALL BE AT THE RIGHT SIDE OF THE RIGHT HAND DOOR. SIGNS ON DOUBLE DOORS WITH AN INACTIVE LEAF ARE TO BE INSTALLED ON INACTIVE LEAF. MOUNT ON NEAREST ADJACENT WALL WHERE THERE IS INSUFFICIENT WIDTH AT DOOR.
6. FOR SIGNS MOUNTED ON GLAZING OR TRANSPARENT PARTITIONS INSTALL AN EQUAL SIZE BLANK SIGN ON OPPOSITE SIDE OF PARTITION.
7. SUBMIT ALL SIGNS FOR APPROVAL OF GRAPHICS AND TEXT PRIOR TO CONSTRUCTION.

SIGNAGE PLAN LEGEND

SIGNAGE PLAN LEGEND:



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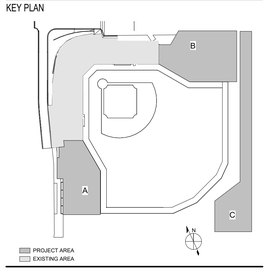
KEY PLAN



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7/3/2024

REVISIONS

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1081 Varsity Dr
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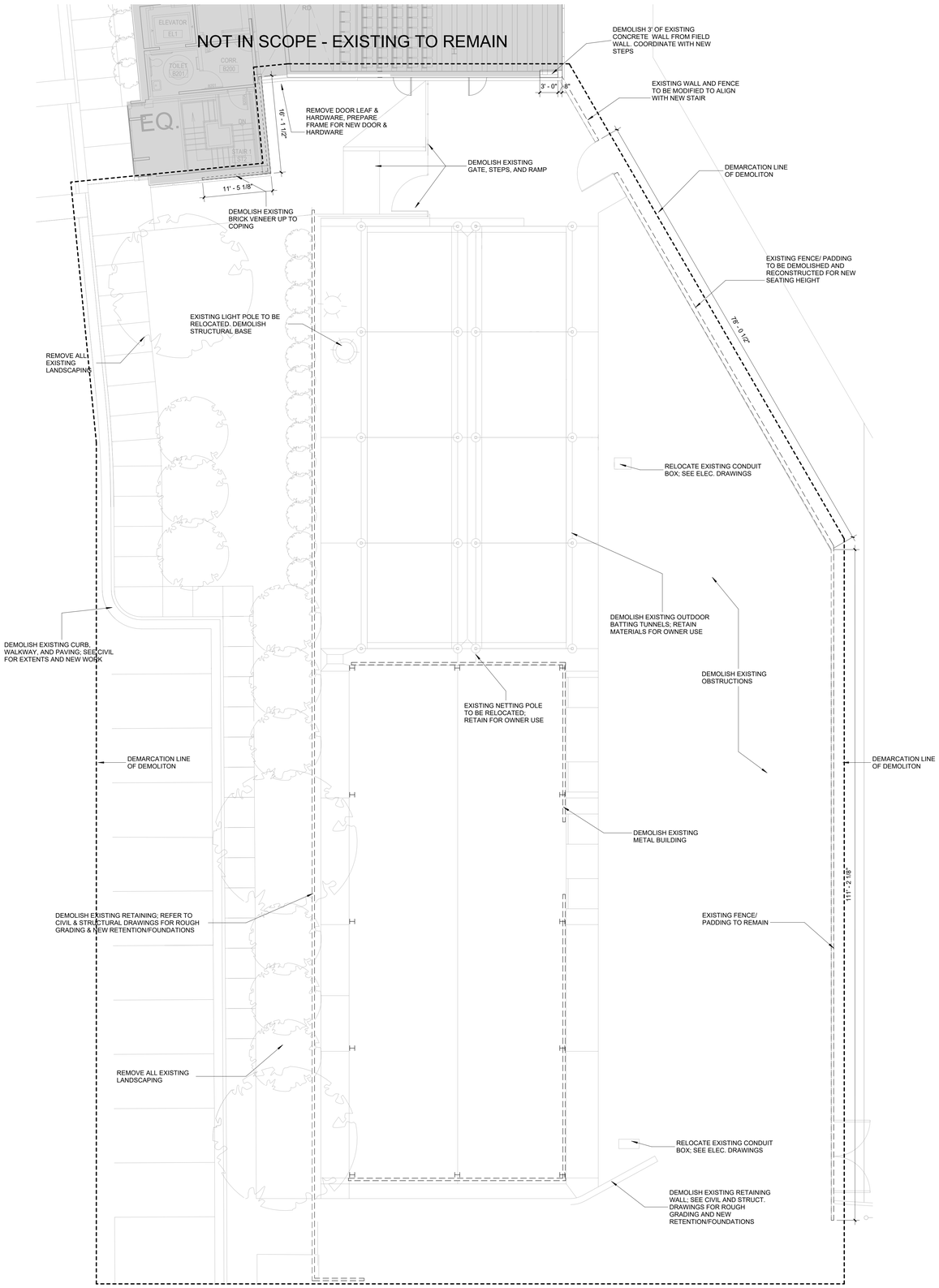
DRAWN BY	CB, GW	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	As indicated

DRAWING NAME
CODE REQUIRED SIGNAGE

FLOOR/SECTION PHASE: BID
DRAWING NO.: AG0.4



1 LEVEL 1 DEMO PLAN
SCALE: 1/8" = 1'-0"

GENERAL DEMOLITION AND ALTERATION NOTES

1. CONTRACTOR SHALL NOT CONSIDER DEMOLITION AND ALTERATION NOTES TO BE ALL INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT AND ASSESS EACH AREA AND TO FULFILL THE INTENT OF THE WORK INDICATED BY THE CONTRACT DOCUMENTS. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS WITHIN THE CONTRACT LIMITS. DEVIATIONS FROM THE CONTRACT DOCUMENTS NECESSITATED BY FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
2. CONTRACTOR SHALL CONSULT WITH THE OWNER IN ADVANCE OF DOING WORK TO DETERMINE DISPOSITION OF ALL FIXTURES, CABINETS, SERVICES, EQUIPMENT AND ITEMS REMOVED DURING THE DEMOLITION. REMOVE EXISTING FURNISHINGS AND EQUIPMENT LEFT BEHIND TO BE DISCARDED BY OWNER.
3. PROVIDE TEMPORARY BARRIERS, BARRICADES, LIGHTING, FIRE PROTECTION, ETC. TO PROTECT PERSONNEL AND ADJACENT SPACES PER THE REQUIREMENTS OF DIVISION 01 SECTION "TEMPORARY FACILITIES AND CONTROLS."
4. PROVIDE TEMPORARY SAFEGUARDS AS REQUIRED TO PROTECT EXISTING FINISHES AND EQUIPMENT TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
5. WHERE EXISTING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO, PARTITIONS, FLOORS AND BASES, DOOR AND WINDOW FRAMES, CEILINGS, CASEWORK, EQUIPMENT, ELECTRICAL AND MECHANICAL DEVICES, FIXTURES AND EQUIPMENT IS REMOVED OR ALTERED, REPAIR ADJACENT SURFACES DISTURBED BY DEMOLITION OR ALTERATION WORK AND PREPARE THESE SURFACES TO RECEIVE NEW SCHEDULED FINISHES. REPAIRS TO SURFACES DEEMED BY THE ARCHITECT AND OWNER TO BE UNSATISFACTORY FOR THE PURPOSE SHALL BE REMOVED AND REPLACED IN KIND.
6. REPAIRS TO FIRE, SMOKE OR ACOUSTICALLY RATED WALLS, FLOORS OR CEILINGS SHALL BE MADE WITH MATERIALS APPROPRIATE TO ACHIEVE THE SAME RATING AS THE EXISTING.
7. WHERE FINISHES ARE NOTED TO BE REMOVED AT COLUMNS OR WALLS, REMOVAL SHALL BE SUCH THAT NEW FINISHES MAY BE INSTALLED TO ALIGN WITH EXISTING FINISHES.
8. UNLESS NOTED OTHERWISE, REMOVE EXISTING PROJECTIONS, HANGERS, BOLTS, NAILS, BRACKETS, CURTAIN RODS, VALANCES, ETC. FROM EXISTING WALLS AND COLUMNS. PATCH ALL HOLES TO MATCH ADJACENT SURFACES FOR THE INSTALLATION OF NEW FINISHES.
9. AT NEW DOORS, CORRIDOR OPENINGS OR CONNECTIONS AND WHERE PARTITIONS ARE REMOVED, REMOVE EXISTING FLOORING AND BASES TO EXTENT REQUIRED FOR NEW UNDERLAYMENT TO PROVIDE A SMOOTH TRANSITION. THE SUBSURFACE SHALL BE PATCHED AND TREATED TO PRODUCE A SURFACE WHICH WILL ELIMINATE "TELEGRAPHING" OF EXISTING JOINTS THROUGH THE NEW FLOORING. INSTALL UNDERLAYMENT PER DIVISION 03 SECTION "GYPSUM CEMENT UNDERLAYMENT."
10. WHERE NEW WALLS WILL ABUT EXISTING CORNERS, REMOVE CORNER GUARD AND REPAIR CORNER PRIOR TO INSTALLATION.
11. CAREFULLY REMOVE EXISTING SUSPENDED ACOUSTIC TILE CEILING TO EXTENT REQUIRED TO ACCOMMODATE NEW MECHANICAL AND ELECTRICAL WORK BOTH INSIDE AND OUTSIDE THE PROJECT AREA LINE. STORE UNDAMAGED CEILING AND SUPPORT GRID FOR REINSTALLATION. REPLACE ALL DAMAGED MATERIAL IN KIND.
12. CAREFULLY REMOVE EXISTING DRYWALL [PLASTER] CEILINGS TO EXTENT REQUIRED TO ACCOMMODATE NEW MECHANICAL AND ELECTRICAL WORK BOTH INSIDE AND OUTSIDE THE PROJECT AREA LINE. REINSTALL SUPPORT STRUCTURE AND INSTALL NEW DRYWALL [PLASTER] AND FINISH TO MATCH EXISTING ADJACENT FINISHES TO THE SATISFACTION OF THE ARCHITECT AND OWNER.
13. ALL MECHANICAL AND ELECTRICAL WORK NOTED ON THE DEMOLITION DRAWINGS SHALL BE REMOVED BY THE APPROPRIATE DIVISION 21, 22, 23, 25, 26, 27 AND 28 SUBCONTRACTORS.
14. MECHANICAL AND ELECTRICAL DEMOLITION IN FINISHED SPACES SHALL BE REMOVED SUCH THAT ALL EXISTING TERMINATIONS WILL BE CONCEALED BEHIND THE NEW CONSTRUCTION.
15. HOLES IN UL RATED FLOORS AND WALLS RESULTING FROM DEMOLITION OR REMOVALS SHALL BE REPAIRED IN A MANNER CONSISTENT WITH THE ADJACENT UL RATED CONSTRUCTION AND BE ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
16. REPORT ALL CRACKED OR DAMAGED EXTERIOR GLAZING TO OWNER AND ARCHITECT.

EWING COLE
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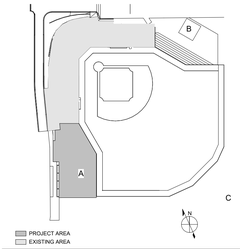
CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

REVISIONS

NO.	BY	DESCRIPTION	DATE
	EC	ISSUE FOR BID	09/03/2024

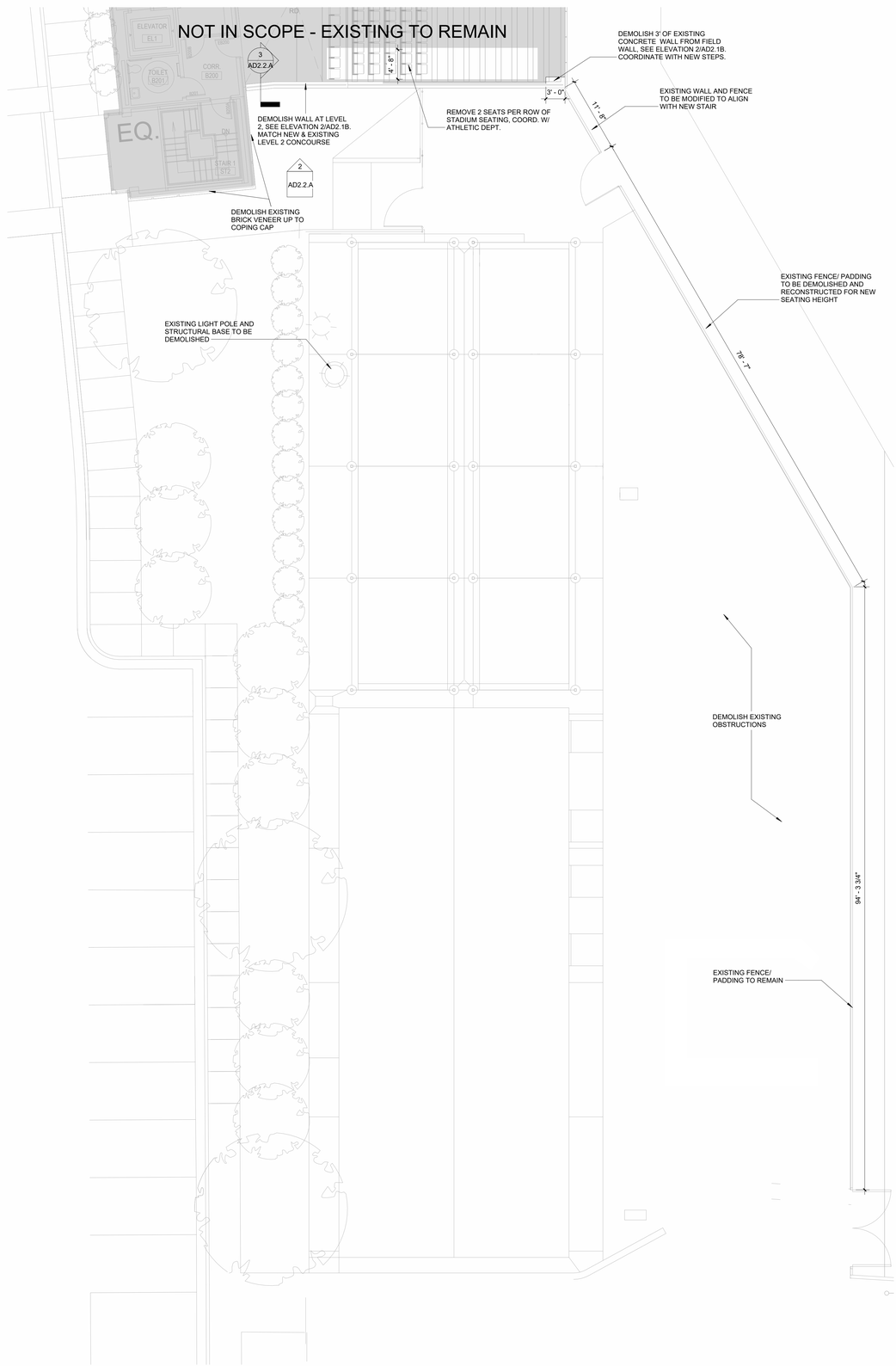
NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

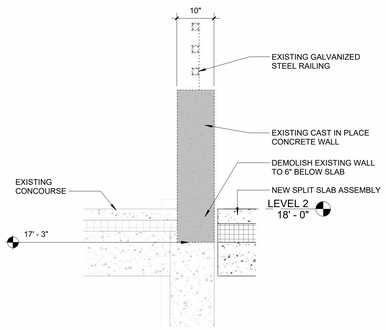
DRAWN BY	CB	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	1/8" = 1'-0"

DRAWING NAME
LEVEL 1 DEMO PLAN - RIGHT FIELD

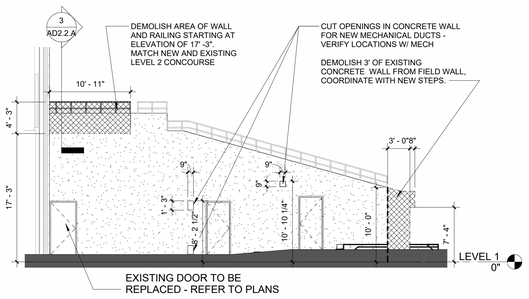
FLOOR/SECTION	PHASE	DRAWING NO.
	BID	AD2.1.A



1 LEVEL 2 DEMO PLAN - RIGHT FIELD
SCALE: 1/8" = 1'-0"



3 EXISITNG CONCOURSE CURB WALL
SCALE: 3/4" = 1'-0"



2 CONCOURSE/EXISTING NORTH ELEVATION
SCALE: 1/8" = 1'-0"

GENERAL DEMOLITION AND ALTERATION NOTES

1. CONTRACTOR SHALL NOT CONSIDER DEMOLITION AND ALTERATION NOTES TO BE ALL INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT AND ASSESS EACH AREA AND TO FULFILL THE INTENT OF THE WORK INDICATED BY THE CONTRACT DOCUMENTS. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS WITHIN THE CONTRACT LIMITS. DEVIATIONS FROM THE CONTRACT DOCUMENTS NECESSITATED BY FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
2. CONTRACTOR SHALL CONSULT WITH THE OWNER IN ADVANCE OF DOING WORK TO DETERMINE DISPOSITION OF ALL FIXTURES, CABINETS, SERVICES, EQUIPMENT AND ITEMS REMOVED DURING THE DEMOLITION. REMOVE EXISTING FURNISHINGS AND EQUIPMENT LEFT BEHIND TO BE DISCARDED BY OWNER.
3. PROVIDE TEMPORARY BARRIERS, BARRICADES, LIGHTING, FIRE PROTECTION, ETC. TO PROTECT PERSONNEL AND ADJACENT SPACES PER THE REQUIREMENTS OF DIVISION 01 SECTION "TEMPORARY FACILITIES AND CONTROLS."
4. PROVIDE TEMPORARY SAFEGUARDS AS REQUIRED TO PROTECT EXISTING FINISHES AND EQUIPMENT TO REMAIN DURING DEMOLITION AND CONSTRUCTION.
5. WHERE EXISTING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO, PARTITIONS, FLOORS AND BASES, DOOR AND WINDOW FRAMES, CEILINGS, CASEWORK, EQUIPMENT, ELECTRICAL AND MECHANICAL DEVICES, FIXTURES AND EQUIPMENT IS REMOVED OR ALTERED, REPAIR ADJACENT SURFACES DISTURBED BY DEMOLITION OR ALTERATION WORK AND PREPARE THESE SURFACES TO RECEIVE NEW SCHEDULED FINISHES. REPAIRS TO SURFACES DEEMED BY THE ARCHITECT AND OWNER TO BE UNSATISFACTORY FOR THE PURPOSE SHALL BE REMOVED AND REPLACED IN KIND.
6. REPAIRS TO FIRE, SMOKE OR ACOUSTICALLY RATED WALLS, FLOORS OR CEILINGS SHALL BE MADE WITH MATERIALS APPROPRIATE TO ACHIEVE THE SAME RATING AS THE EXISTING.
7. WHERE FINISHES ARE NOTED TO BE REMOVED AT COLUMNS OR WALLS, REMOVAL SHALL BE SUCH THAT NEW FINISHES MAY BE INSTALLED TO ALIGN WITH EXISTING FINISHES.
8. UNLESS NOTED OTHERWISE, REMOVE EXISTING PROJECTIONS, HANGERS, BOLTS, NAILS, BRACKETS, CURTAIN RODS, VALANCES, ETC. FROM EXISTING WALLS AND COLUMNS. PATCH ALL HOLES TO MATCH ADJACENT SURFACES FOR THE INSTALLATION OF NEW FINISHES.
9. AT NEW DOORS, CORRIDOR OPENINGS OR CONNECTIONS AND WHERE PARTITIONS ARE REMOVED, REMOVE EXISTING FLOORING AND BASES TO EXTENT REQUIRED FOR NEW UNDERLAYMENT TO PROVIDE A SMOOTH TRANSITION. THE SUBSURFACE SHALL BE PATCHED AND TREATED TO PRODUCE A SURFACE WHICH WILL ELIMINATE "TELEGRAPHING" OF EXISTING JOINTS THROUGH THE NEW FLOORING. INSTALL UNDERLAYMENT PER DIVISION 03 SECTION "GYPSUM CEMENT UNDERLAYMENT."
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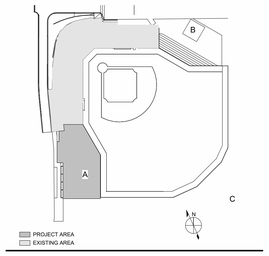
CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. 52711 ARCHITECTURE RALEIGH, NC
JASON C. KOLANO 11036 REGISTERED LANDSCAPE ARCHITECT NORTH CAROLINA CHARLOTTE, NC
7/3/2024

REVISIONS

NO.	BY	DESCRIPTION	DATE
	EC	ISSUE FOR BID	09/03/2024

NC STATE UNIVERSITY

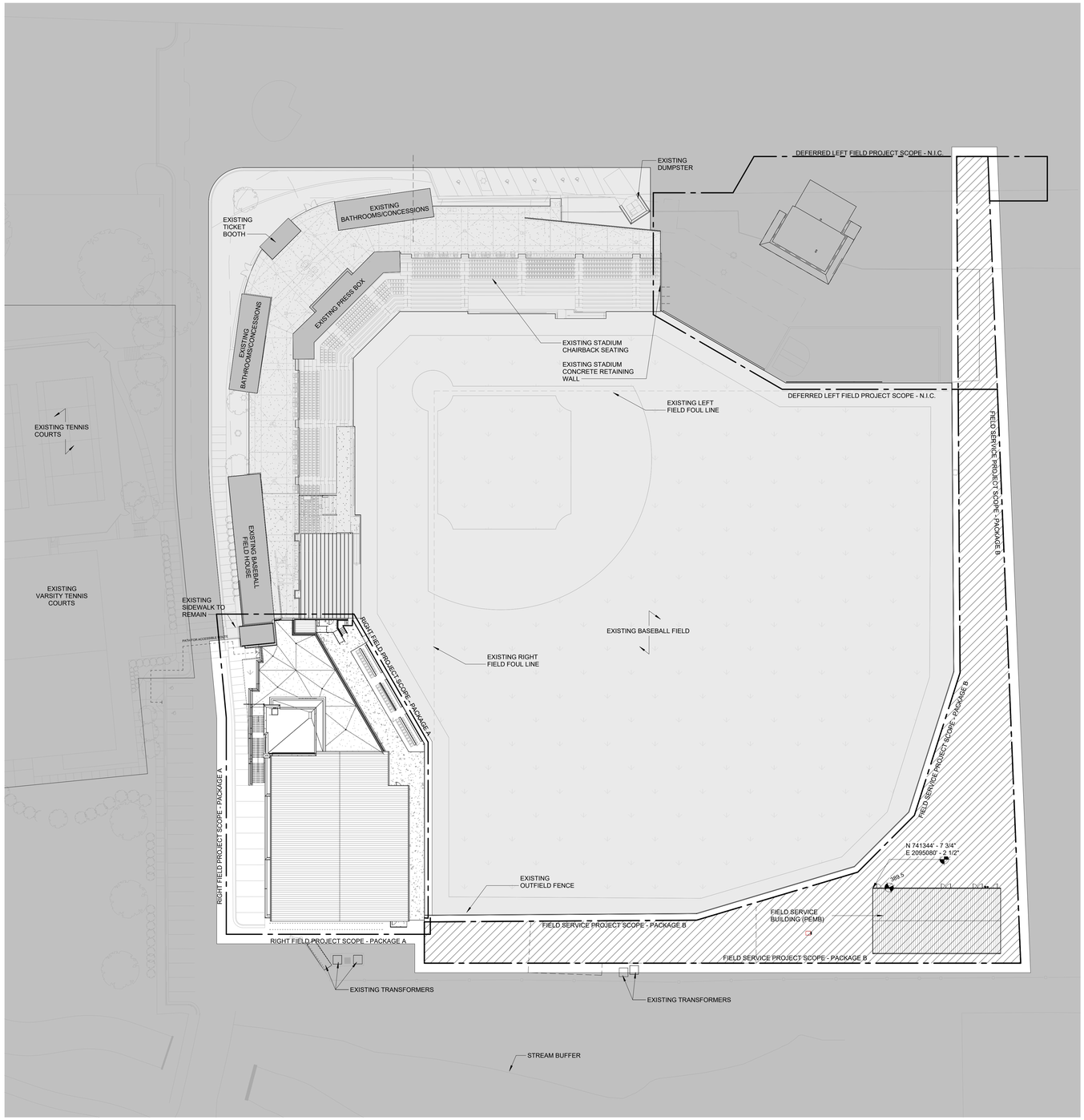
DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	AC, CB, GW	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	As indicated

DRAWING NAME

LEVEL 2 DEMO PLAN - RIGHT FIELD

FLOOR/SECTION PHASE	DRAWING NO.
BID	AD2.2.A



1 ARCHITECTURAL SITE PLAN - OVERALL
SCALE: 1" = 30'-0"

SITE PLAN LEGEND

- EXISTING STRUCTURE AND ADJACENCIES - NOT IN SCOPE
- EXISTING FIELD - NOT IN SCOPE
- ADJACENT PROJECT AREA - NOT IN SCOPE

SITE PLAN NOTES

1. SITE PLAN ELEVATIONS BASED ON EXISTING FIELDHOUSE FIRST FLOOR, ELEVATION 390' - 0 3/4" PER NAD 83

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CONSULTANTS

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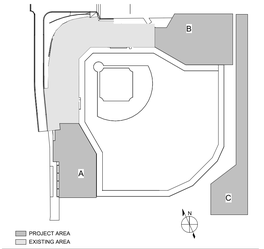
KEY PLAN



PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. 52711 REGISTERED LANDSCAPE ARCHITECT RALEIGH, NC

JASON C. KOLLO 11036 REGISTERED LANDSCAPE ARCHITECT NORTH CAROLINA CHARLOTTE, NC

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DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

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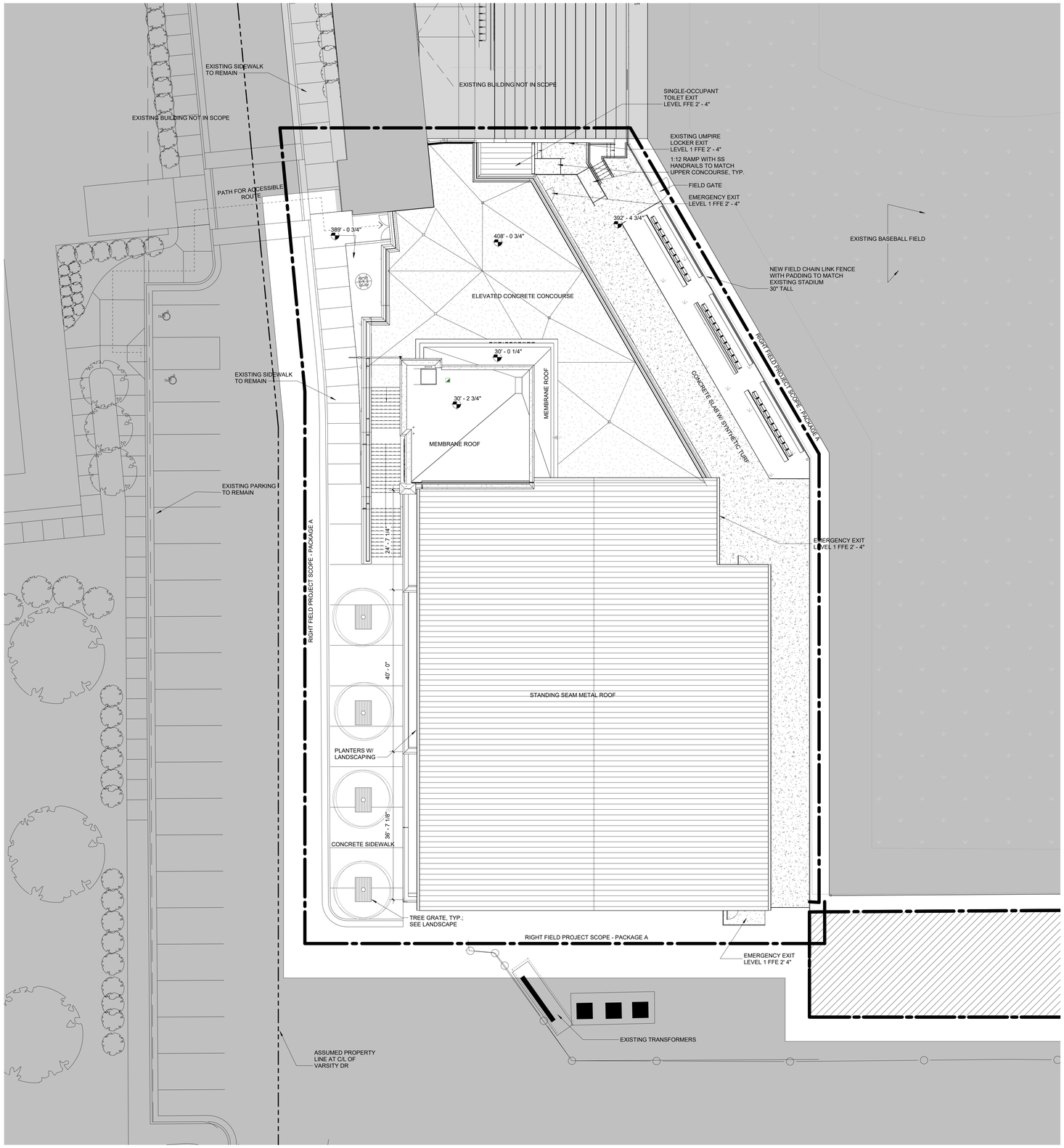
PROJECT NO.	20220400	SCALE	As indicated

DRAWING NAME

ARCHITECTURAL SITE PLAN - OVERALL

FLOOR/SECTION	PHASE	DRAWING NO.
	BID	A1.0.1



1 ARCHITECTURAL SITE PLAN - RIGHT FIELD
SCALE: 3/32" = 1'-0"

SITE PLAN LEGEND

- EXISTING STRUCTURE AND ADJACENCIES - NOT IN SCOPE
- EXISTING FIELD - NOT IN SCOPE
- ADJACENT PROJECT AREA - NOT IN SCOPE

SITE PLAN NOTES

1. SITE PLAN ELEVATIONS BASED ON EXISTING FIELDHOUSE FIRST FLOOR, ELEVATION 390' - 0 3/4" PER NAD 83

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CONSULTANTS

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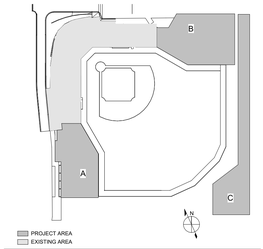

PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. ARCHITECTURE PLANNING INTERIORS 52711 REGISTERED RALEIGH, NC

JASON C. KOLANKO REGISTERED LANDSCAPE ARCHITECT 11036 NORTH CAROLINA CHARLOTTE, NC

7/3/2024

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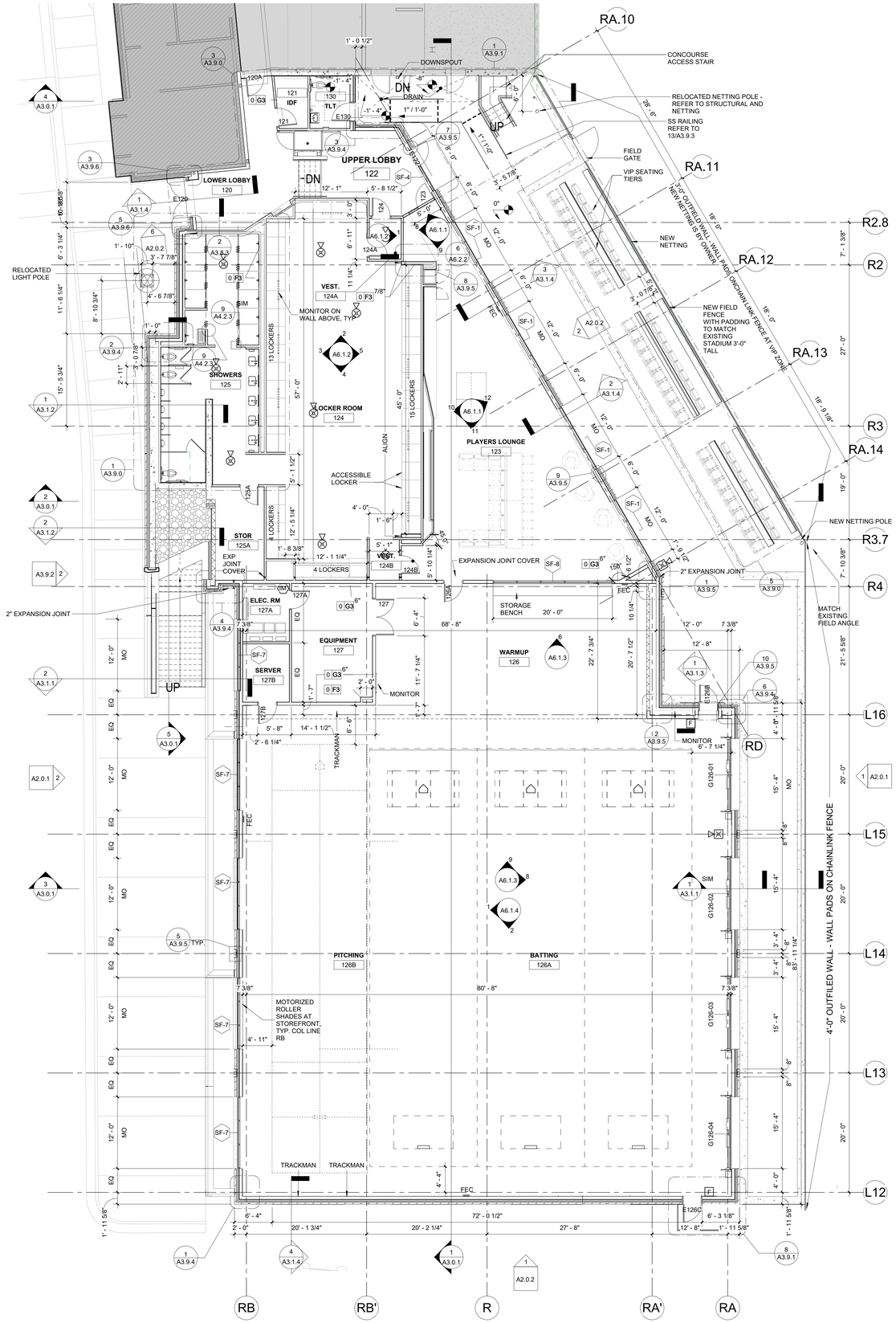
DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	CB,GW	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	As indicated

DRAWING NAME

ARCHITECTURAL SITE PLAN - ENLARGED RIGHT FIELD

FLOOR/SECTION	PHASE	DRAWING NO.
	BID	A1.0.1A



1 L1 - FIRST FLOOR PLAN - TRAINING FACILITY
SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

1. ALL INTERIOR PARTITIONS SHOULD BE WALL TYPE 0G3 UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND POSTING ALL REQUIRED LOCAL AND STATE CONSTRUCTION PERMITS.
3. VERIFY ALL EXISTING FIELD CONDITIONS ARE CONSISTENT WITH THE DOCUMENTS BEFORE PROCEEDING. REPORT INCONSISTENCIES TO THE ARCHITECT.
4. ACCESS TO AREAS OUTSIDE THE PROJECT AREA LINE SHALL BE COORDINATED IN ADVANCE WITH THE OWNER.
5. ALL UTILITY SHUT DOWNS OR SUSPENSION OF MECHANICAL OR ELECTRICAL SERVICES SHALL BE SCHEDULED IN ADVANCE WITH THE OWNER.
6. UNLESS OTHERWISE NOTED ON DOCUMENTS, ALL PAINTING SHALL BE FROM A CORNER TO A CORNER AND CEILING TO FLOOR REGARDLESS OF AREA ACTUALLY DISTURBED.
7. MECHANICAL AND ELECTRICAL DEVICES, FIXTURES, PANELS AND EQUIPMENT INSTALLED IN FINISHED SPACES SHALL BE INSTALLED SO ONLY THE DEVICE, FIXTURE OR EQUIPMENT IS EXPOSED. NO PIPE, DUCT, CONDUIT, WIRE OR OTHER SUCH ELEMENT SHALL BE EXPOSED.
8. PRIOR TO SCHEDULED FINISHING OF EXISTING WALLS, REPAIR MINOR DENTS, IMPERFECTIONS AND SCRAPES.
9. NEW CEILINGS SHALL BE SUSPENDED FROM STRUCTURAL ELEMENTS AND BE INSTALLED PER DIVISION 09 SECTION "DRYWALL SYSTEMS."
10. NEW WALLS SHALL BE ERECTED AS INDICATED AND PER DIVISION 09 SECTION "DRYWALL SYSTEMS."
11. NEW UL RATED WALLS SHALL BE ERECTED BY HOURLY RATING PRIORITY IN DESCENDING ORDER AND SHALL BE ERECTED PRIOR TO NON-RATED WALLS. UL RATED WALLS INTERSECTING EXTERIOR WALLS SHALL BE EXTENDED THROUGH TO THE EXTERIOR SHEATHING. REMOVE EXTERIOR WALL AS REQUIRED TO PROPERLY INSTALL AND REPAIR IN KIND.

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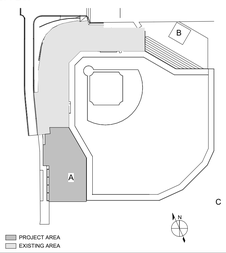

PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. ENGINEERING 52711 NORTH CAROLINA RALEIGH, NC

JASON C. KOLLMO REGISTERED LANDSCAPE ARCHITECT 11036 NORTH CAROLINA CHARLOTTE, NC

9/3/2024

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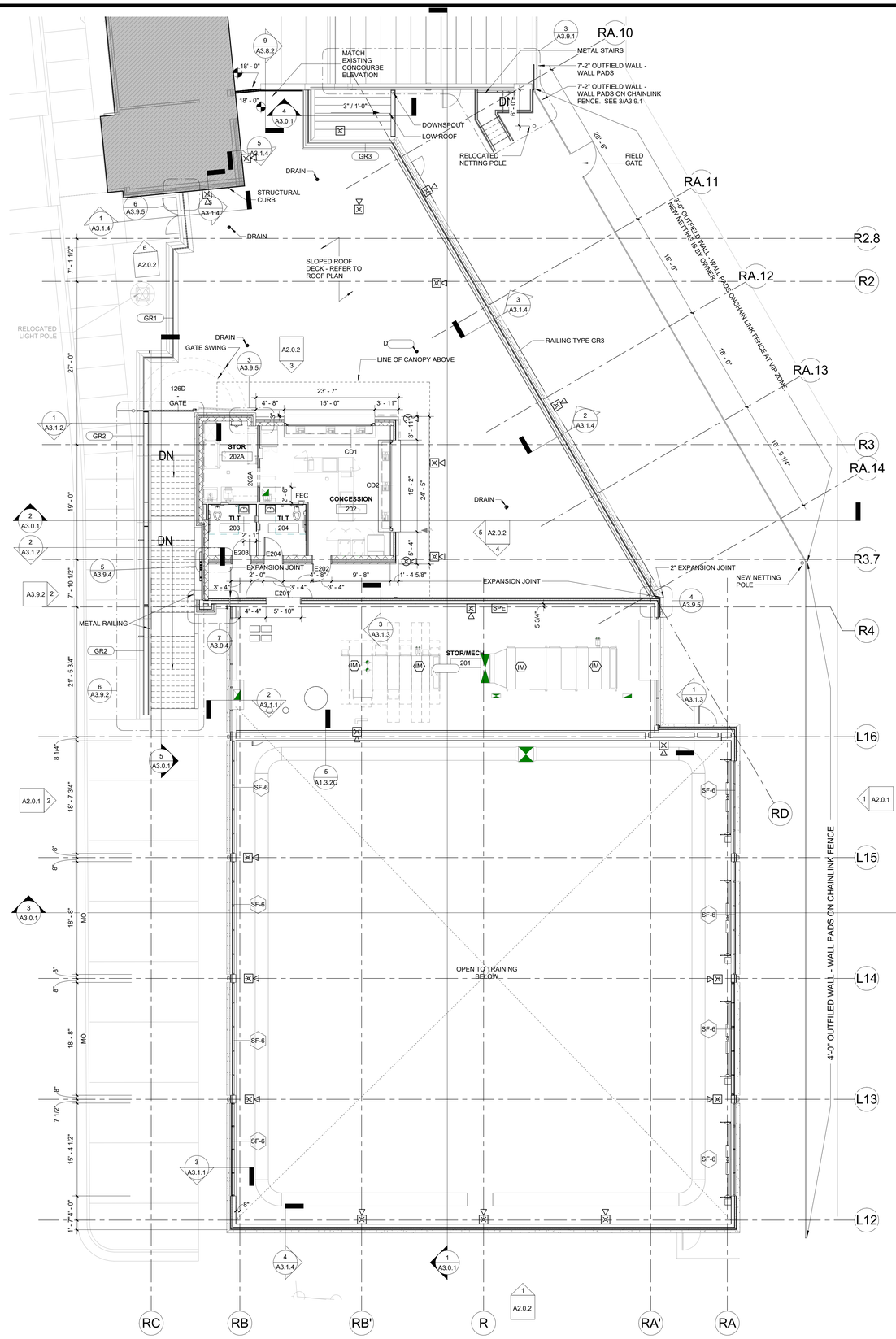
NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	CB, GW	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	1/8" = 1'-0"

DRAWING NAME
LEVEL 1 RIGHT FIELD FLOOR PLAN

FLOOR/SECTION PHASE	DRAWING NO.
BID	A1.2.1A



1 L2 - SECOND FLOOR PLAN - CONCOURSE / RIGHT FIELD
SCALE: 1/8" = 1'-0"

FLOOR PLAN NOTES

1. ALL INTERIOR PARTITIONS SHOULD BE WALL TYPE 0G3 UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND POSTING ALL REQUIRED LOCAL AND STATE CONSTRUCTION PERMITS.
3. VERIFY ALL EXISTING FIELD CONDITIONS ARE CONSISTENT WITH THE DOCUMENTS BEFORE PROCEEDING. REPORT INCONSISTENCIES TO THE ARCHITECT.
4. ACCESS TO AREAS OUTSIDE THE PROJECT AREA LINE SHALL BE COORDINATED IN ADVANCE WITH THE OWNER.
5. ALL UTILITY SHUT DOWNS OR SUSPENSION OF MECHANICAL OR ELECTRICAL SERVICES SHALL BE SCHEDULED IN ADVANCE WITH THE OWNER.
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8. PRIOR TO SCHEDULED FINISHING OF EXISTING WALLS, REPAIR MINOR DENTS, IMPERFECTIONS AND SCRAPES.
9. NEW CEILINGS SHALL BE SUSPENDED FROM STRUCTURAL ELEMENTS AND BE INSTALLED PER DIVISION 09 SECTION "DRYWALL SYSTEMS."
10. NEW WALLS SHALL BE ERECTED AS INDICATED AND PER DIVISION 09 SECTION "DRYWALL SYSTEMS."
11. NEW UL RATED WALLS SHALL BE ERECTED BY HOURLY RATING PRIORITY IN DESCENDING ORDER AND SHALL BE ERECTED PRIOR TO NON-RATED WALLS. UL RATED WALLS INTERSECTING EXTERIOR WALLS SHALL BE EXTENDED THROUGH TO THE EXTERIOR SHEATHING. REMOVE EXTERIOR WALL AS REQUIRED TO PROPERLY INSTALL AND REPAIR IN KIND.

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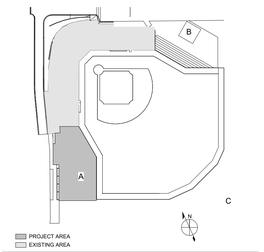

PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. 52711 REGISTERED ARCHITECT RALEIGH, NC
JASON C. KOLAND 11036 REGISTERED ARCHITECT NORTH CAROLINA CHARLOTTE, NC
9/3/2024

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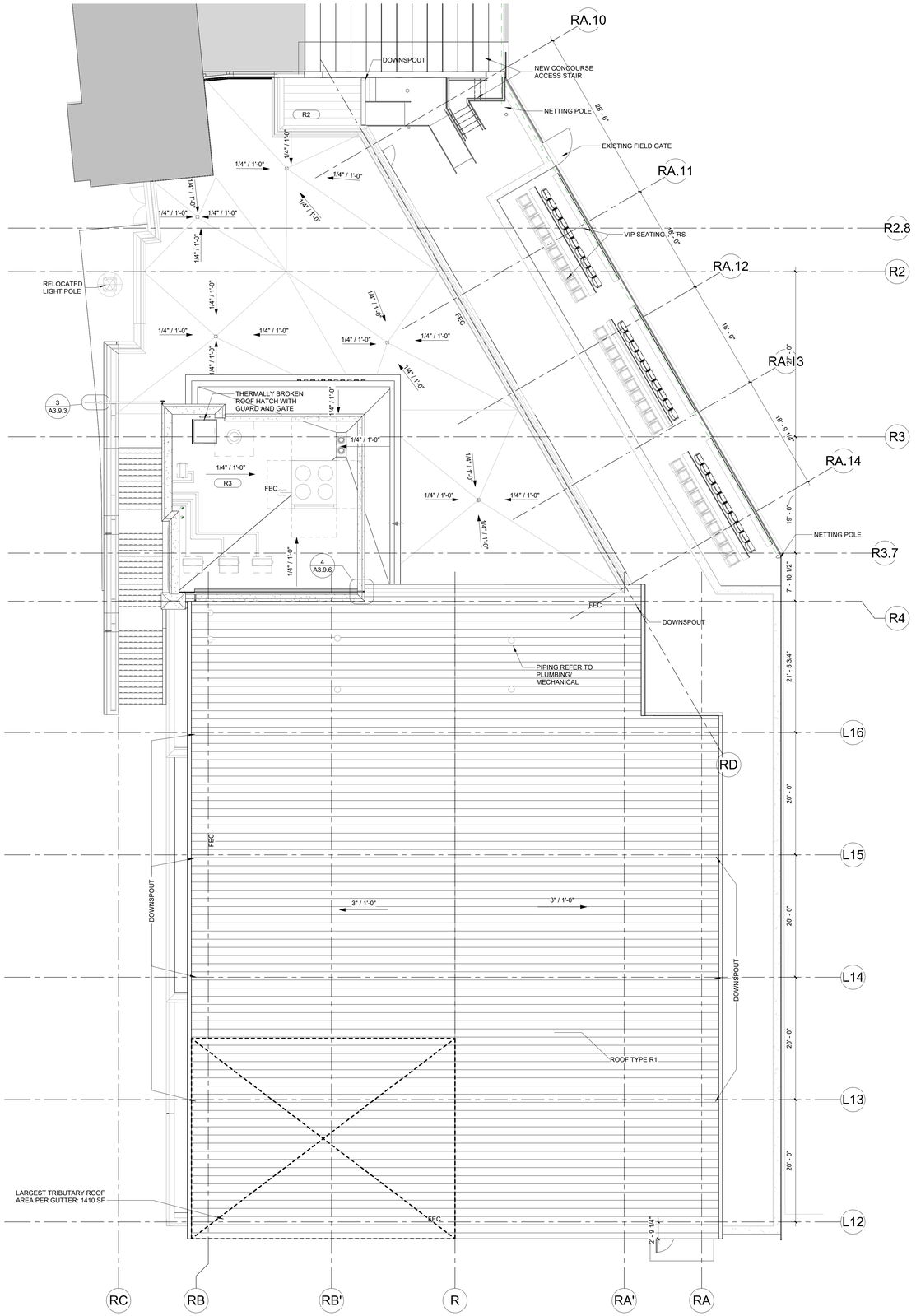
DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	CB, GW	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	1/8" = 1'-0"

DRAWING NAME
LEVEL 2 RIGHT FIELD FLOOR PLAN

FLOOR/SECTION PHASE	DRAWING NO.
BID	A1.2.2A



1 L3 - ROOF PLAN / MECH PENTHOUSE / RIGHT FIELD
SCALE: 1/8" = 1'-0"

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CONSULTANTS

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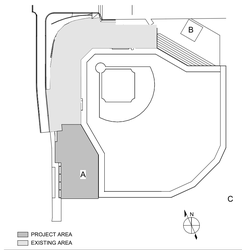

PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. 52711 REGISTERED ARCHITECT MCCULLOUGH RALEIGH, NC

JASON C. KOLANKO 11036 REGISTERED LANDSCAPE ARCHITECT NORTH CAROLINA CHARLOTTE, NC

9/3/2024

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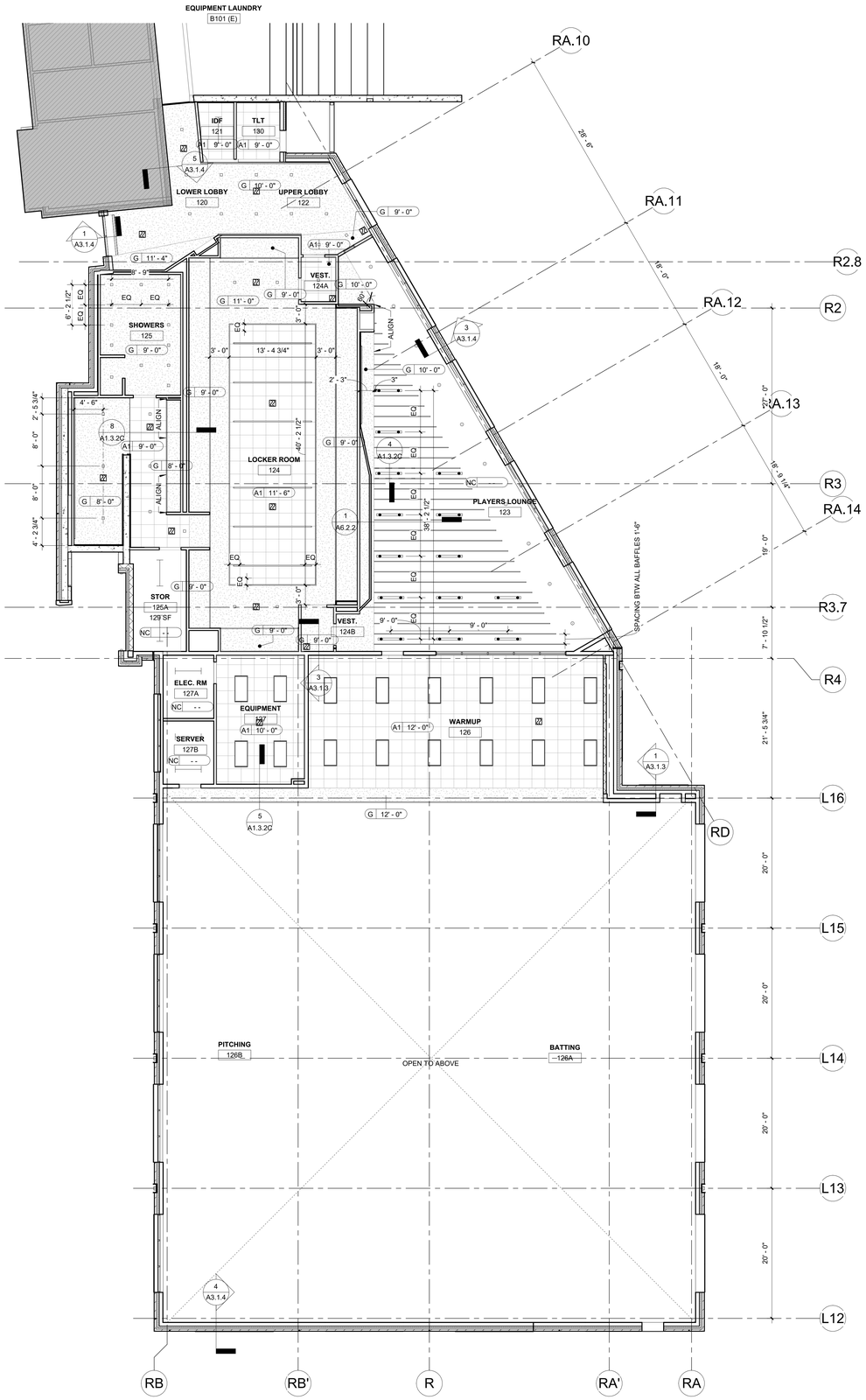
DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	CB, GW	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	1/8" = 1'-0"

DRAWING NAME

RIGHT FIELD ROOF PLAN

FLOOR/SECTION	PHASE	DRAWING NO.
	BID	A1.2.3A



1 LEVEL 1 RIGHT FIELD REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

CEILING TYPE LEGEND

1. ALL CEILINGS ACOUSTICAL CEILING TILE AT 9'-0" UNO.

2. ALL OTHER CEILING LABELED AS FOLLOWS:

A1 8'-6"
CEILING TYPE — CEILING HEIGHT

A	ACOUSTICAL CEILING TILE
EP	EXISTING PLASTER, TO BE PTD
G	GWB, PAINTED
NC	NO CEILING
P	PLASTER
W	WOOD

3. ALL CEILING GRIDS SHALL BE CENTERED ON ROOM/SPACE UNO.

4. ALL FIXTR'S, DIFFUSERS, GRILLS, SPRINKLER HEADS, SPEAKERS OR OTHER DEVICES SHALL BE LOCATED IN THE CENTER OF A CEILING TILE OR THE CENTER OF A PANEL INSCRIBED ON A TILE, UNO.

5. CENTER ALL INDUSTRIAL PENDANT FIXTURES IN ROOM UNO.

6. COORDINATE PROJECTOR LOCATIONS WITH FINAL PROJECTOR MANUFACTURER.

- GWB or PLASTER CEILING or SOFFIT
- 2'-0" x 2'-0" ACT CLG, TYPE A
- WOOD CEILING SYSTEM
- RETURN AIR SLOT, 2" UNO
- SHOWER CURTAIN TRACK SYSTEM

SEE ELEC DWGS FOR FIXTURE SPECIFICS
- 2'-0" x 2'-0" RECESSED
- 2'-0" x 4'-0" RECESSED
- 1'-0" x 4'-0" RECESSED
- EXT WALL MTD LIGHT
- INDUSTRIAL SURFACE MTD
- RECESSED DOWNLIGHT
- RECESSED WALL WASHER
- CEILING MTD EXIT LIGHT, UNO

SEE HVAC DWGS FOR EQUIPMENT SPECIFICS
- SMOKE DETECTOR
- OCCUPANCY SENSOR
- CEILING MTD SPEAKER
- CEILING MTD PHOTOCELL
- CEILING MTD SECURITY CAMERA
- DIFFUSER - SEE HVAC DWGS
- LINEAR DIFFUSER
- RETURN/EXHAUST GRILLE
- CEILING ACCESS PANEL

SEE FIRE PROTECTION DWGS FOR EQUIPMENT SPECIFICS
- STD SPRINKLER HEADS
- DRY SPRINKLER HEADS
- UPRIGHT SPRINKLER HEADS
- CONCEALED SPRINKLER HEADS
- CEILING MTD SPEAKER / STROBE
- CEILING MTD SPEAKER
- CEILING MTD STROBE

EWING COLE
8208 Brownleigh Drive, Suite 200
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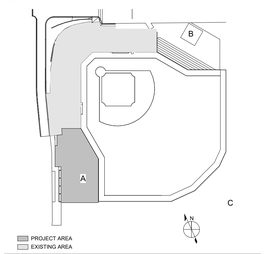
CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWING COLE, INC. 52711 REGISTERED RALEIGH, NC
JASON C. KOLANO 11036 REGISTERED CHARLOTTE, NC
9/3/2024

REVISIONS

NO.	BY	DESCRIPTION	DATE
	EC	ISSUE FOR BID	09/03/2024

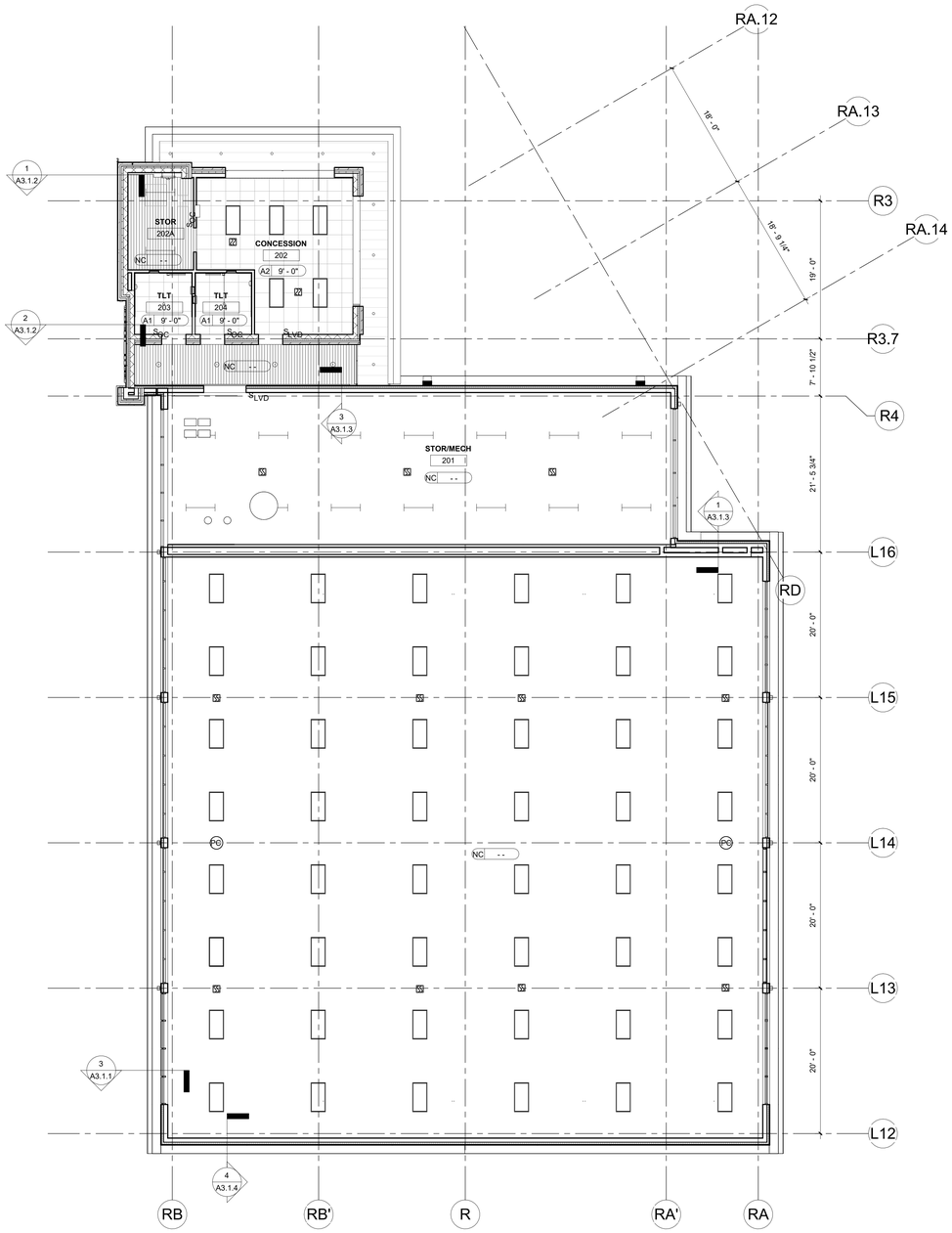
NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	SH, CB	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	1/8" = 1'-0"

DRAWING NAME
RCP LEVEL 1 RIGHT FIELD

FLOOR/SECTION	PHASE	DRAWING NO.
	BID	A1.3.1A



1 LEVEL 2 RIGHT FIELD REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

CEILING TYPE LEGEND

1. ALL CEILINGS ACOUSTICAL CEILING TILE AT 9'-0" UNO.

2. ALL OTHER CEILING LABELED AS FOLLOWS:

A1 8'-6"
CEILING TYPE — CEILING HEIGHT

A	ACOUSTICAL CEILING TILE
EP	EXISTING PLASTER, TO BE PTD
G	GWB, PAINTED
NC	NO CEILING
P	PLASTER
W	WOOD

3. ALL CEILING GRIDS SHALL BE CENTERED ON ROOM/SPACE UNO.

4. ALL FIXTR'S, DIFFUSERS, GRILLS, SPRINKLER HEADS, SPEAKERS OR OTHER DEVICES SHALL BE LOCATED IN THE CENTER OF A CEILING TILE OR THE CENTER OF A PANEL INSCRIBED ON A TILE, UNO.

5. CENTER ALL INDUSTRIAL PENDANT FIXTURES IN ROOM UNO.

6. COORDINATE PROJECTOR LOCATIONS WITH FINAL PROJECTOR MANUFACTURER.

- GWB or PLASTER CEILING or SOFFIT
- 2'-0" x 2'-0" ACT CLG, TYPE A
- WOOD CEILING SYSTEM
- RETURN AIR SLOT, 2" UNO
- SHOWER CURTAIN TRACK SYSTEM

SEE ELEC DWGS FOR FIXTURE SPECIFICS
- 2'-0" x 2'-0" RECESSED
- 2'-0" x 4'-0" RECESSED
- 1'-0" x 4'-0" RECESSED
- EXT WALL MTD LIGHT
- INDUSTRIAL SURFACE MTD
- RECESSED DOWNLIGHT
- RECESSED WALL WASHER
- CEILING MTD EXIT LIGHT, UNO

SEE HVAC DWGS FOR EQUIPMENT SPECIFICS
- SMOKE DETECTOR
- OCCUPANCY SENSOR
- CEILING MTD SPEAKER
- CEILING MTD PHOTOCELL
- CEILING MTD SECURITY CAMERA
- DIFFUSER - SEE HVAC DWGS
- LINEAR DIFFUSER
- RETURN/EXHAUST GRILLE
- CEILING ACCESS PANEL

SEE FIRE PROTECTION DWGS FOR EQUIPMENT SPECIFICS
- STD SPRINKLER HEADS
- DRY SPRINKLER HEADS
- UPRIGHT SPRINKLER HEADS
- CONCEALED SPRINKLER HEADS
- CEILING MTD SPEAKER / STROBE
- CEILING MTD SPEAKER
- CEILING MTD STROBE

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CONSULTANTS

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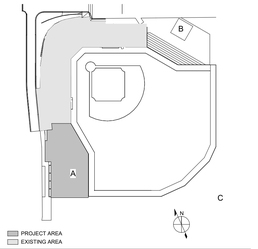
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. 52711 NORTH CAROLINA REGISTERED RALEIGH, NC
JASON C. KOLANO 11036 REGISTERED ARCHITECT NORTH CAROLINA CHARLOTTE, NC
9/3/2024

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DOAK FIELD ENHANCEMENT

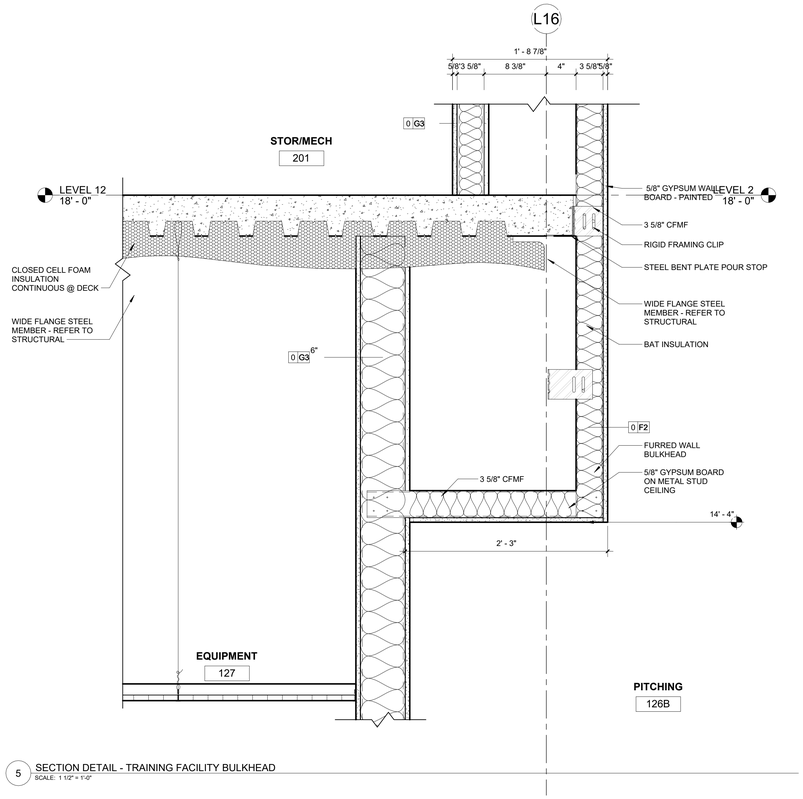
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	SH, CB	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	1/8" = 1'-0"

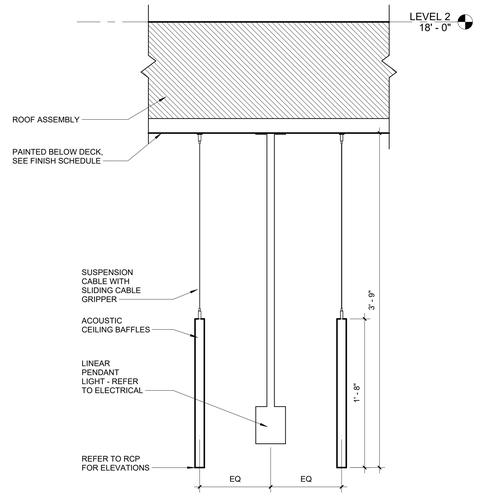
DRAWING NAME

RCP LEVEL 2 RIGHT FIELD

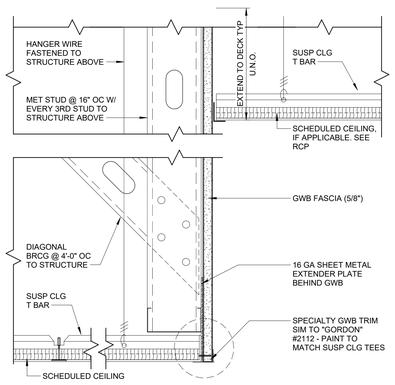
FLOOR/SECTION	PHASE	DRAWING NO.
	BID	A1.3.2A



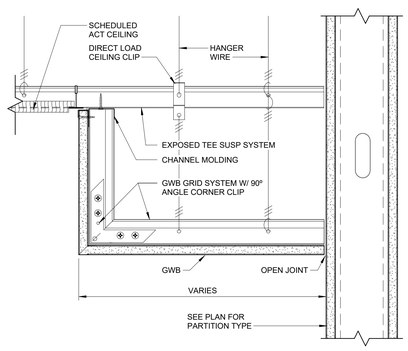
5 SECTION DETAIL - TRAINING FACILITY BULKHEAD
SCALE: 1 1/2" = 1'-0"



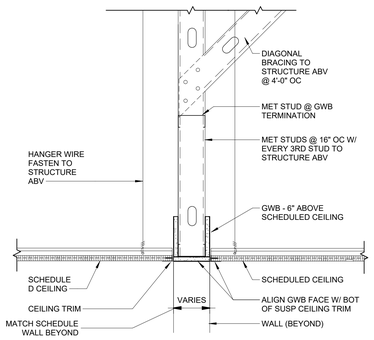
4 SECTION DETAIL - BAFFLES
SCALE: 1 1/2" = 1'-0"



8 TYPICAL CEILING HEIGHT CHANGE
SCALE: 3" = 1'-0"



7 DRYWALL SOFFIT / ACOUSTICAL CEILING
SCALE: 3" = 1'-0"



6 GWB FASCIA
SCALE: 1 1/2" = 1'-0"

CEILING TYPE LEGEND

1. ALL CEILINGS ACOUSTICAL CEILING TILE AT 9'-0" UNO.

2. ALL OTHER CEILING LABELED AS FOLLOWS:

A1 | 8'-6"
CEILING TYPE — CEILING HEIGHT

A	ACOUSTICAL CEILING TILE
EP	EXISTING PLASTER, TO BE PTD
G	GWB, PAINTED
NC	NO CEILING
P	PLASTER
W	WOOD

3. ALL CEILING GRIDS SHALL BE CENTERED ON ROOM/SPACE UNO.

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5. CENTER ALL INDUSTRIAL PENDANT FIXTURES IN ROOM UNO.

6. COORDINATE PROJECTOR LOCATIONS WITH FINAL PROJECTOR MANUFACTURER.

GWB or PLASTER CEILING or SOFFIT

2'-0" x 2'-0" ACT CLG, TYPE A

WOOD CEILING SYSTEM

RETURN AIR SLOT, 2" UNO

SHOWER CURTAIN TRACK SYSTEM

SEE ELEC DWGS FOR FIXTURE SPECIFICS

2'-0" x 2'-0" RECESSED

2'-0" x 4'-0" RECESSED

1'-0" x 4'-0" RECESSED

EXT WALL MTD LIGHT

INDUSTRIAL SURFACE MTD

RECESSED DOWNLIGHT

RECESSED WALL WASHER

CEILING MTD EXIT LIGHT, UNO

SEE HVAC DWGS FOR EQUIPMENT SPECIFICS

SMOKE DETECTOR

OCCUPANCY SENSOR

CEILING MTD SPEAKER

CEILING MTD PHOTOCELL

CEILING MTD SECURITY CAMERA

DIFFUSER - SEE HVAC DWGS

LINEAR DIFFUSER

RETURN/EXHAUST GRILLE

CEILING ACCESS PANEL

SEE FIRE PROTECTION DWGS FOR EQUIPMENT SPECIFICS

STD SPRINKLER HEADS

DRY SPRINKLER HEADS

UPRIGHT SPRINKLER HEADS

CONCEALED SPRINKLER HEADS

CEILING MTD SPEAKER / STROBE

CEILING MTD SPEAKER

CEILING MTD STROBE

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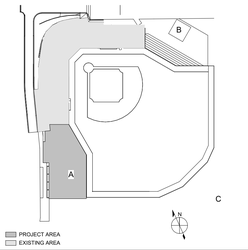
CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. 52711 REGISTERED LANDSCAPE ARCHITECT RALEIGH, NC

JASON C. KOLLMAN REGISTERED LANDSCAPE ARCHITECT 11036 NORTH CAROLINA CHARLOTTE, NC
9/3/2024

REVISIONS

NO.	BY	DESCRIPTION	DATE
EC_		ISSUE FOR BID	09/03/2024

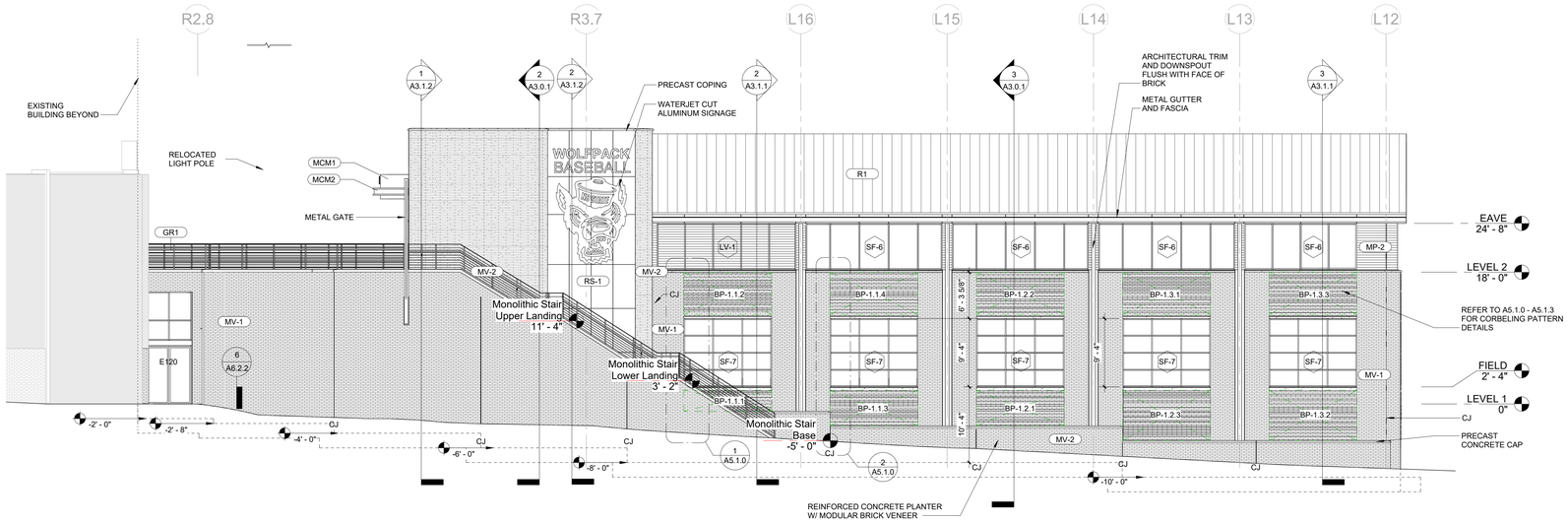
NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

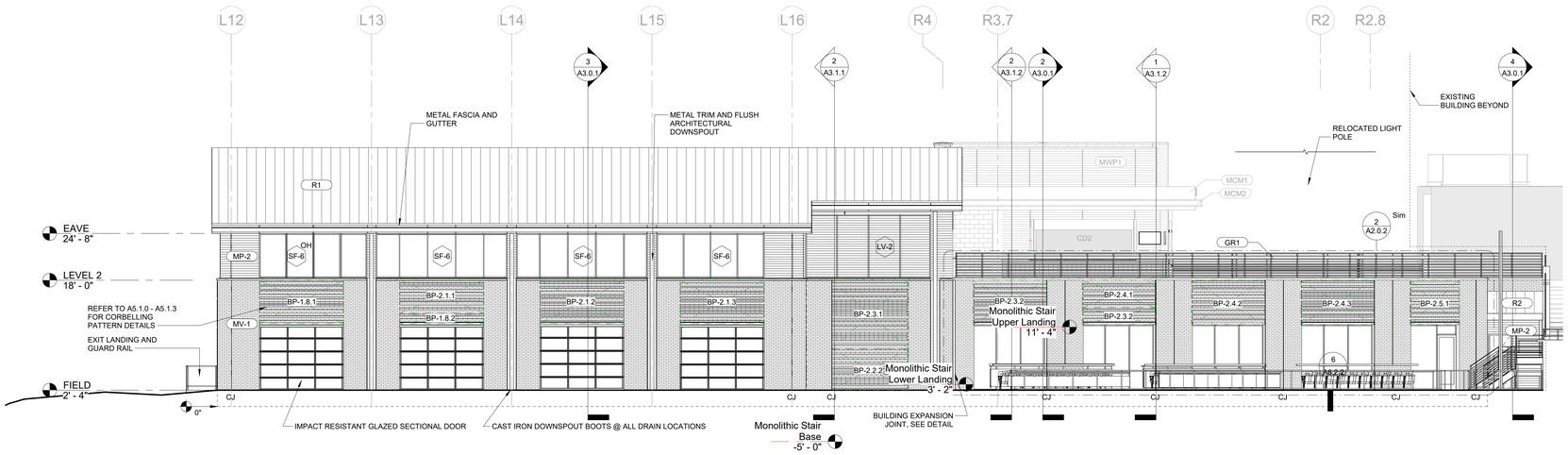
DRAWN BY	CB, GW	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	As indicated

DRAWING NAME
CEILING DETAILS

FLOOR/SECTION	PHASE	DRAWING NO.
	BID	A1.3.2C



2 RIGHT FIELD - WEST ELEVATION (VARSITY AVENUE)
SCALE: 1/8" = 1'-0"



1 RIGHT FIELD - EAST ELEVATION (FIRST BASE LINE)
SCALE: 1/8" = 1'-0"

GENERAL NOTES

A. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.

B. THE CONTRACTOR SHALL CONFIRM AND COORDINATE ALL CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING WORK INDICATED ON ELEVATIONS.

C. REFER TO MECHANICAL ELECTRICAL, AND PLUMBING, AND FIRE PROTECTION DRAWINGS FOR ANY EQUIPMENT SHOWN ON EXTERIOR ELEVATIONS. THE FINAL LOCATION OF ALL EXTERIOR LIGHTING SHALL BE COORDINATED WITH ARCHITECT.

D. DIMENSIONS SHOWN FOR METAL WALL PANELS ARE TO THE CENTERLINE OF THE METAL PANEL REVEALS.

E. ALL MEP PENETRATIONS THROUGH EXTERIOR WALLS TO BE SEALED WATERTIGHT WITH BACKER ROD AND SEALANT, TYP.

ELEVATION LEGEND

G-2 GLAZING SYSTEM TYPE

MT-2 MATERIAL TYPE

BP-2 REFER TO A5.1.0 - A5.1.3 FOR CORBELLING PATTERN DETAILS

EWING COLE

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CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN

PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. ARCHITECTURE PLANNING 52711 KEITH CABLE RALEIGH, NC

JASON C. KOLL REGISTERED ARCHITECT 11036 NORTH CAROLINA CHARLOTTE, NC

9/3/2024

REVISIONS

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	EC	ISSUE FOR BID	09/03/2024

NC STATE UNIVERSITY

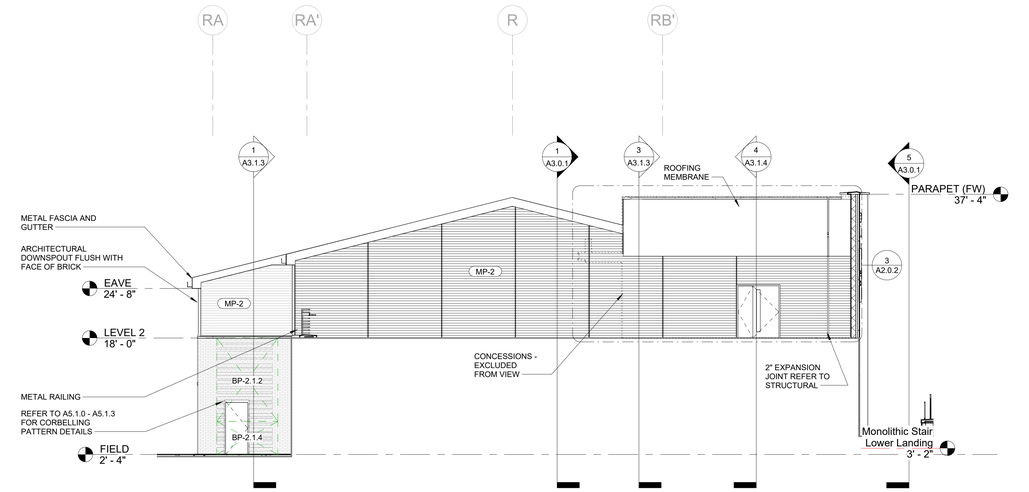
DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	CB	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	1/8" = 1'-0"

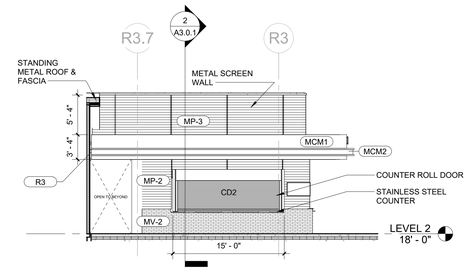
DRAWING NAME

RIGHT FIELD EAST AND WEST ELEVATIONS

FLOOR/SECTION	PHASE	DRAWING NO.
	BID	A2.0.1



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



5 RIGHT FIELD - EAST CONCESSIONS ELEVATION
SCALE: 1/8" = 1'-0"

2 RIGHT FIELD - NORTHEAST ELEVATION
SCALE: 1/8" = 1'-0"

3 RIGHT FIELD CONCESSIONS - NORTH ELEVATION
SCALE: 1/8" = 1'-0"

1 RIGHT FIELD - SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

6 LOWER LOBBY ENTRY/EXISTING STAIR TOWER ELEVATION
SCALE: 1/8" = 1'-0"

GENERAL NOTES

A. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.

B. THE CONTRACTOR SHALL CONFIRM AND COORDINATE ALL CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING WORK INDICATED ON ELEVATIONS.

C. REFER TO MECHANICAL ELECTRICAL, AND PLUMBING, AND FIRE PROTECTION DRAWINGS FOR ANY EQUIPMENT SHOWN ON EXTERIOR ELEVATIONS. THE FINAL LOCATION OF ALL EXTERIOR LIGHTING SHALL BE COORDINATED WITH ARCHITECT.

D. DIMENSIONS SHOWN FOR METAL WALL PANELS ARE TO THE CENTERLINE OF THE METAL PANEL REVEALS.

E. ALL MEP PENETRATIONS THROUGH EXTERIOR WALLS TO BE SEALED WATERTIGHT WITH BACKER ROD AND SEALANT, TYP.

ELEVATION LEGEND

G-2 GLAZING SYSTEM TYPE

MT-2 MATERIAL TYPE

BP-2 REFER TO A5.1.0 - A5.1.3 FOR CORBELLING PATTERN DETAILS

EWING COLE

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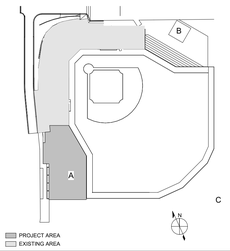
CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. ARCHITECTURE PLANNING INTERIORS NORTH CAROLINA 52711 RALEIGH, NC

JASON C. KOLLMAN REGISTERED LANDSCAPE ARCHITECT 11036 NORTH CAROLINA CHARLOTTE, NC

9/3/2024

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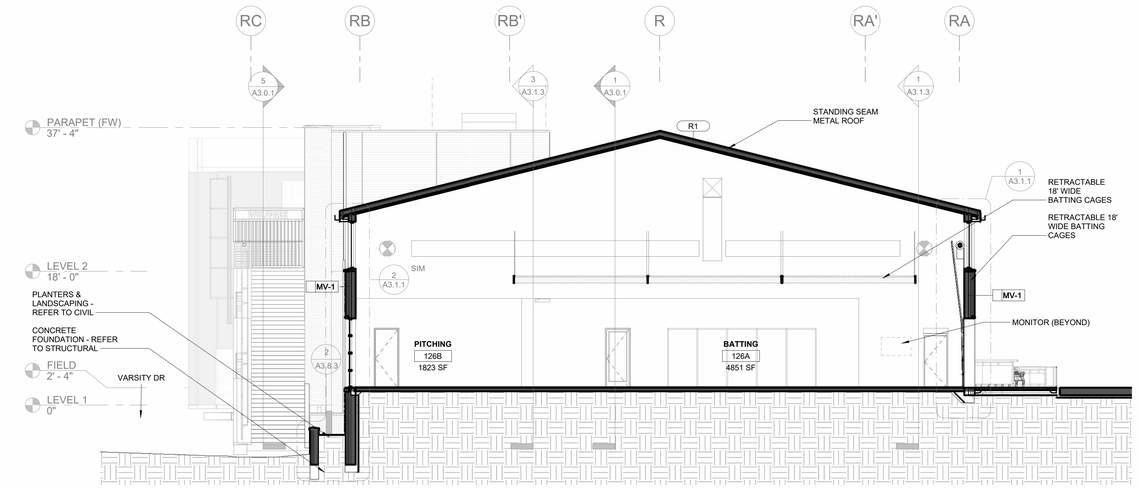
DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	CB	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	1/8" = 1'-0"

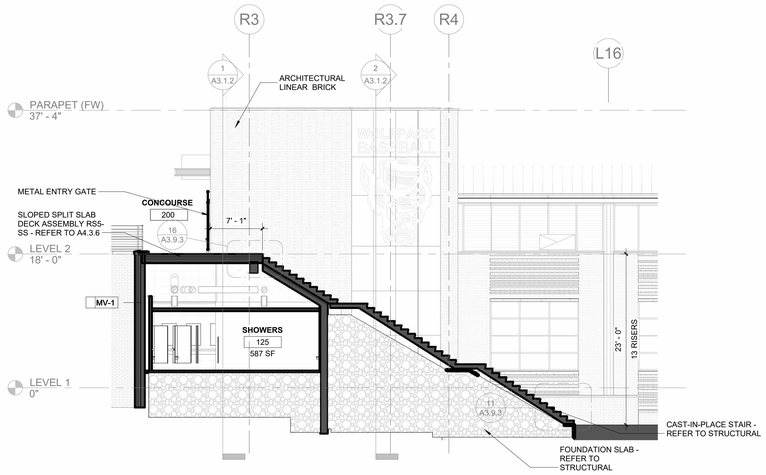
DRAWING NAME

RIGHT FIELD NORTH AND SOUTH ELEVATIONS

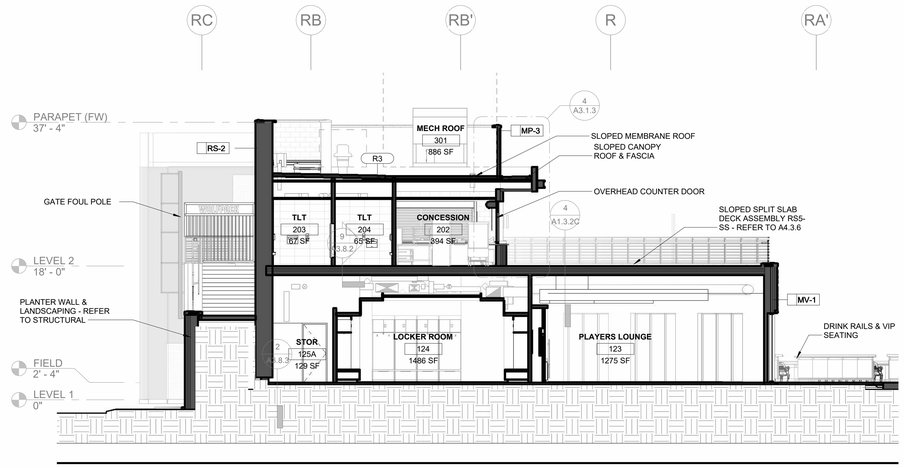
FLOOR/SECTION	PHASE	DRAWING NO.
	BID	A2.0.2



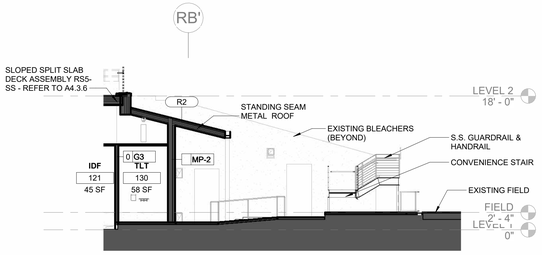
3 RIGHT FIELD PLAYER PERFORMANCE CENTER - TRANSVERSE SECTION
SCALE: 1/8" = 1'-0"



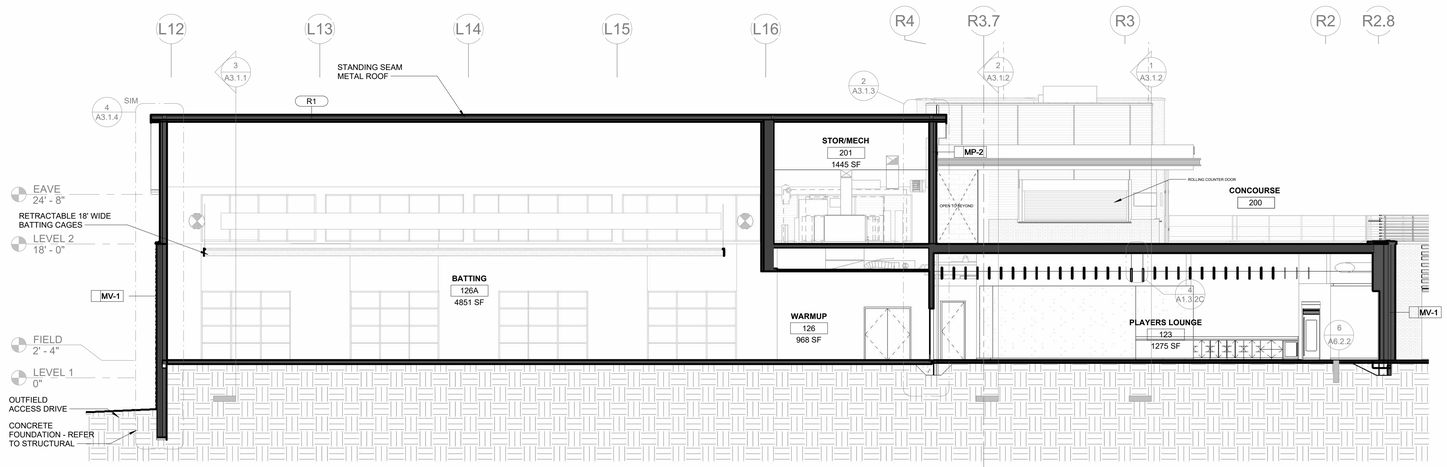
5 RIGHT FIELD PPC ENTRY STAIR SECTION
SCALE: 1/8" = 1'-0"



2 RIGHT FIELD CONCESSIONS - TRANSVERSE SECTION
SCALE: 1/8" = 1'-0"



4 PPC LOW ROOF/TOILET SECTION
SCALE: 1/8" = 1'-0"



1 RIGHT FIELD PLAYER PERFORMANCE CENTER - LONGITUDINAL SECTION
SCALE: 1/8" = 1'-0"

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CONSULTANTS

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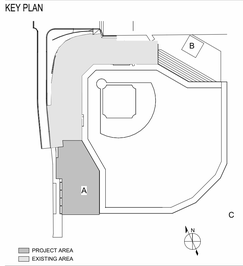
KEY PLAN



PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. ARCHITECTURE PLANNING INTERIORS 52711 RALEIGH, NC
JASON C. KOLANKO LICENSED ARCHITECT 11036 NORTH CAROLINA CHARLOTTE, NC
9/3/2024

REVISIONS

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1	EC	ISSUE FOR BID	09/03/2024

NC STATE UNIVERSITY

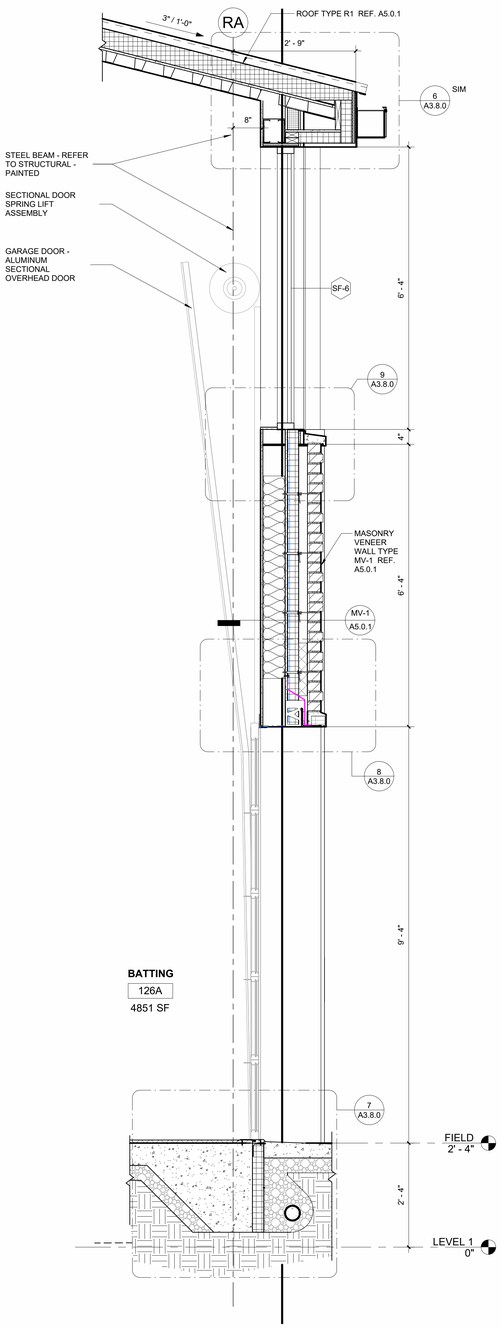
DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	AC, CB	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	1/8" = 1'-0"

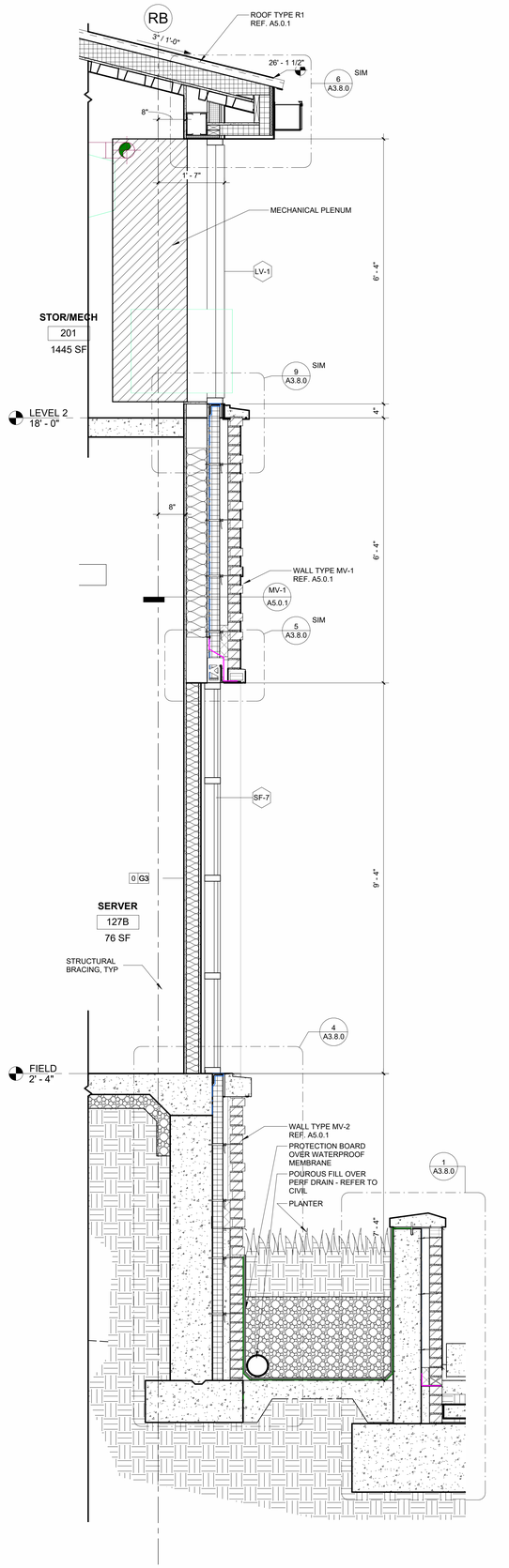
DRAWING NAME
RIGHT FIELD BUILDING SECTIONS

FLOOR/SECTION	PHASE	DRAWING NO.
A	BID	A3.0.1

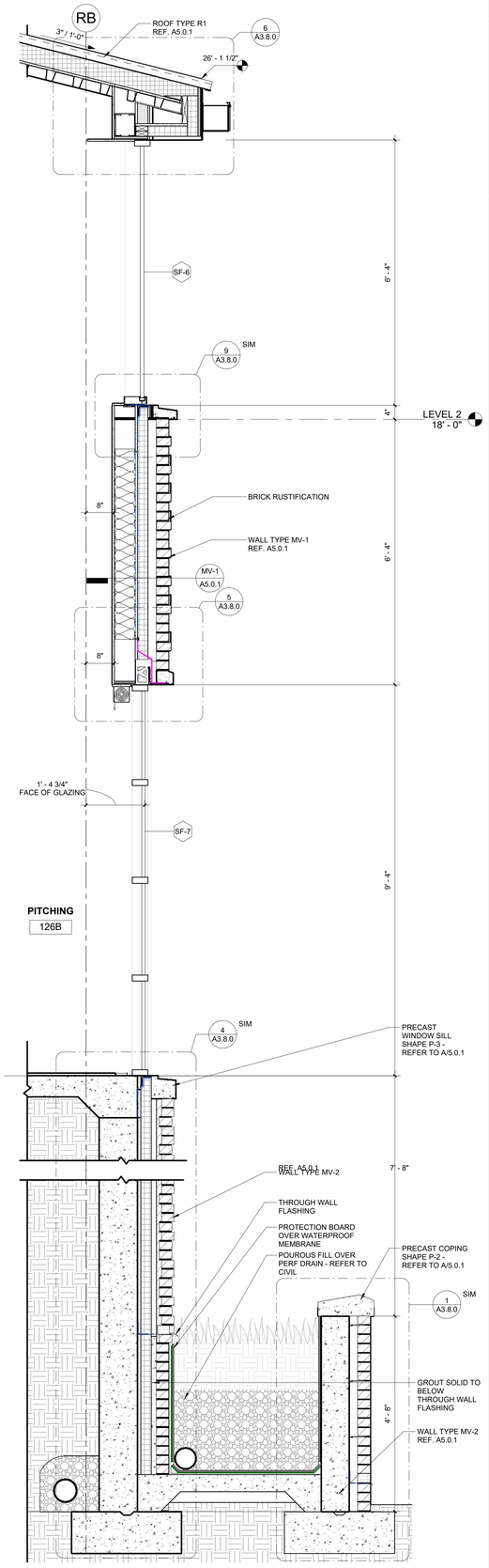
9/3/2024 12:55:27 AM Autodesk Docs://20220400 - NCState-NC State Doak Baseball Stadium/20220400 Doak Field A22.rvt



1 TRAINING FACILITY BATTING WALL SECTION
SCALE: 3/4" = 1'-0"



2 TRAINING FACILITY METAL LOUVER WALL SECTION
SCALE: 3/4" = 1'-0"



3 TRAINING FACILITY TYPICAL BAY WALL SECTION
SCALE: 3/4" = 1'-0"

SECTION NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND POSTING ALL REQUIRED LOCAL AND STATE CONSTRUCTION PERMITS.
2. VERIFY ALL EXISTING FIELD CONDITIONS ARE CONSISTENT WITH THE DOCUMENTS BEFORE PROCEEDING. REPORT INCONSISTENCIES TO THE ARCHITECT.
3. ACCESS TO AREAS OUTSIDE THE PROJECT AREA LINE SHALL BE COORDINATED IN ADVANCE WITH THE OWNER.
4. ALL UTILITY SHUT DOWNS OR SUSPENSION OF MECHANICAL OR ELECTRICAL SERVICES SHALL BE SCHEDULED IN ADVANCE WITH THE OWNER.

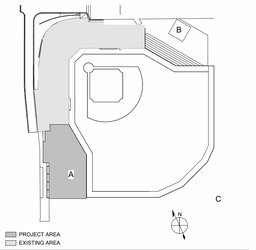
EWING COLE

8208 Brownleigh Drive, Suite 200
Raleigh, NC 27617
Tel: 919-460-6700 Fax: 919-460-6733

CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. ENGINEERING CORPORATION 52711 MECHANICAL RALEIGH, NC

JASON C. KOLANO LICENSED ARCHITECT 11036 SOUTH CAROLINA CHARLOTTE, NC

7/3/2024

REVISIONS

NO.	BY	DESCRIPTION	DATE
	EC	ISSUE FOR BID	09/03/2024

NC STATE UNIVERSITY

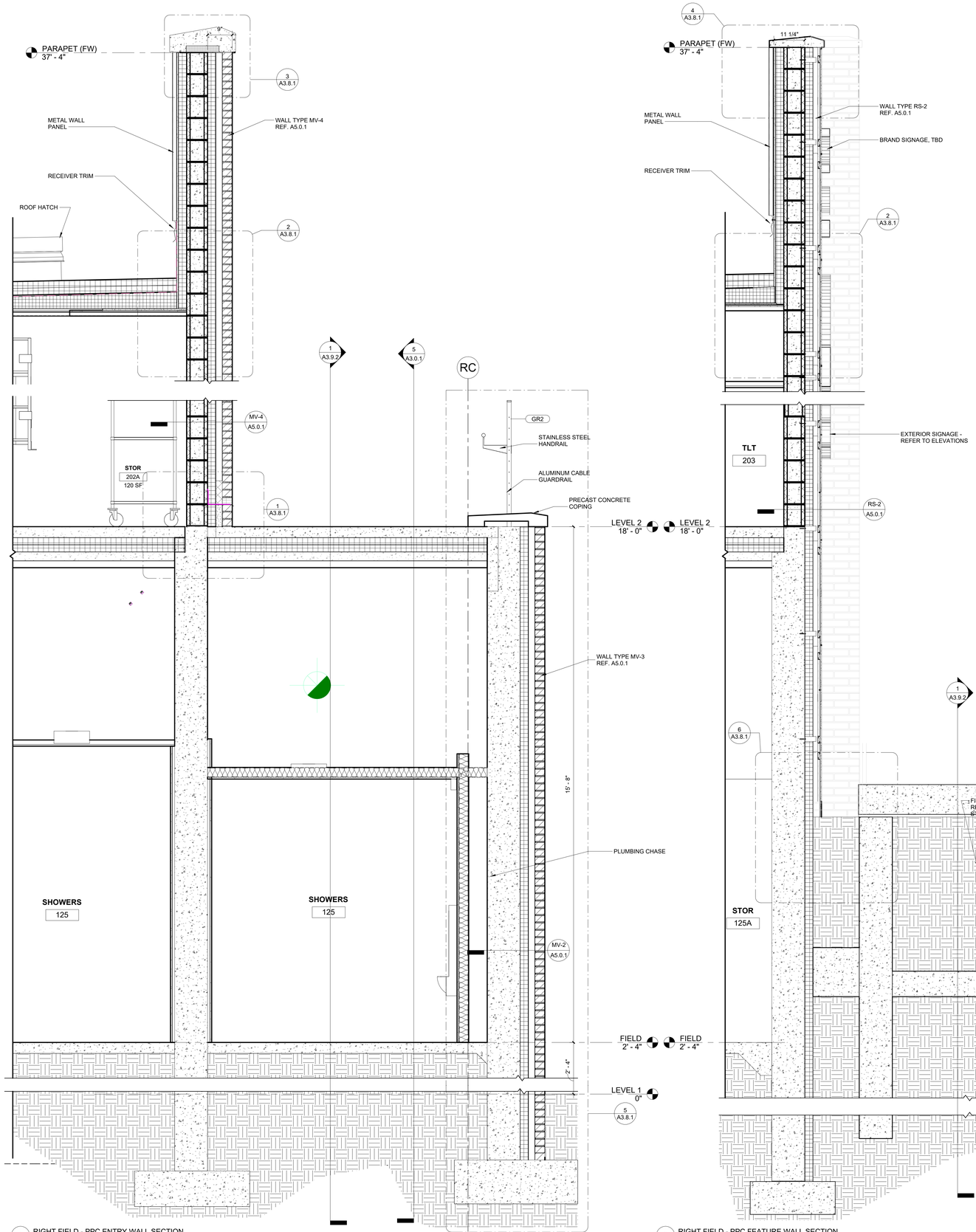
DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	GW, CB	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	As indicated

DRAWING NAME

RIGHT FIELD PPC WALL SECTIONS

FLOOR/SECTION	PHASE	DRAWING NO.
	BID	A3.1.1



1 RIGHT FIELD - PPC ENTRY WALL SECTION
SCALE: 3/4" = 1'-0"

2 RIGHT FIELD - PPC FEATURE WALL SECTION
SCALE: 3/4" = 1'-0"

SECTION NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND POSTING ALL REQUIRED LOCAL AND STATE CONSTRUCTION PERMITS.
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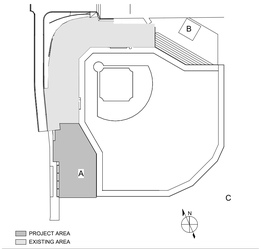

PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. REGISTERED ARCHITECT 52711 NORTH CAROLINA RALEIGH, NC

JASON C. HOLLO REGISTERED LANDSCAPE ARCHITECT 11036 NORTH CAROLINA CHARLOTTE, NC

9/3/2024

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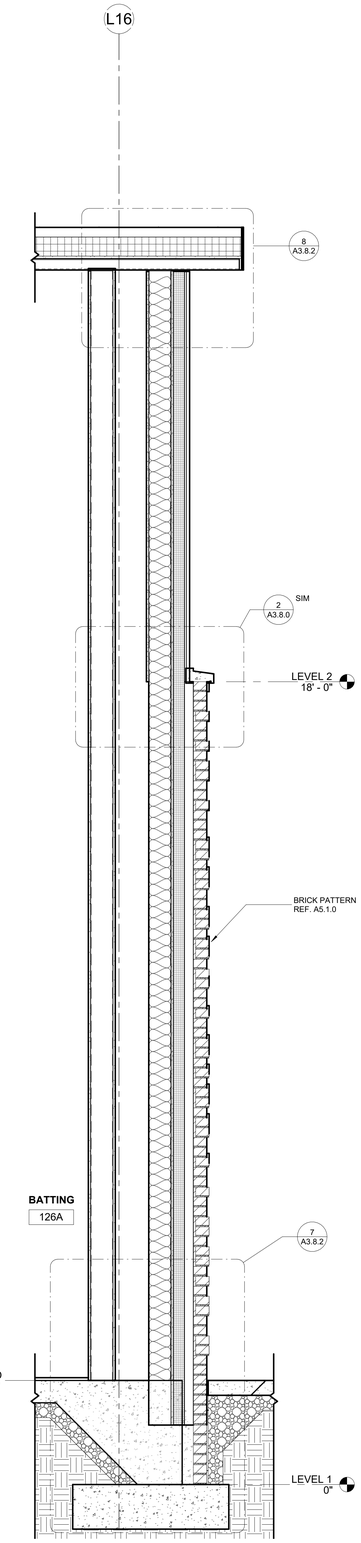
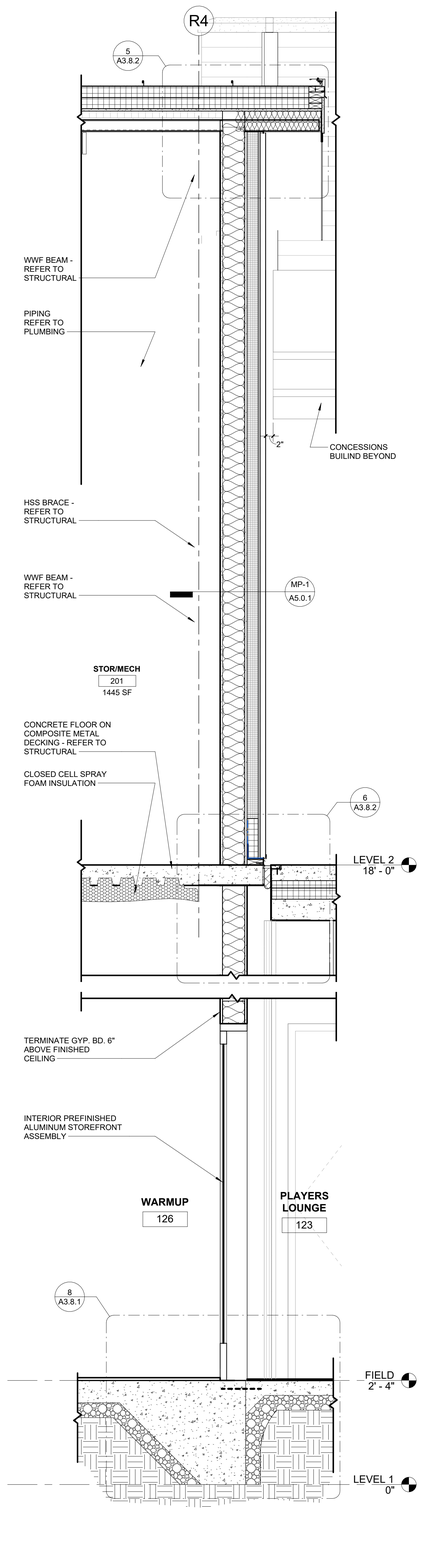
DRAWING NAME

RIGHT FIELD PPC ENTRY WALL SECTIONS

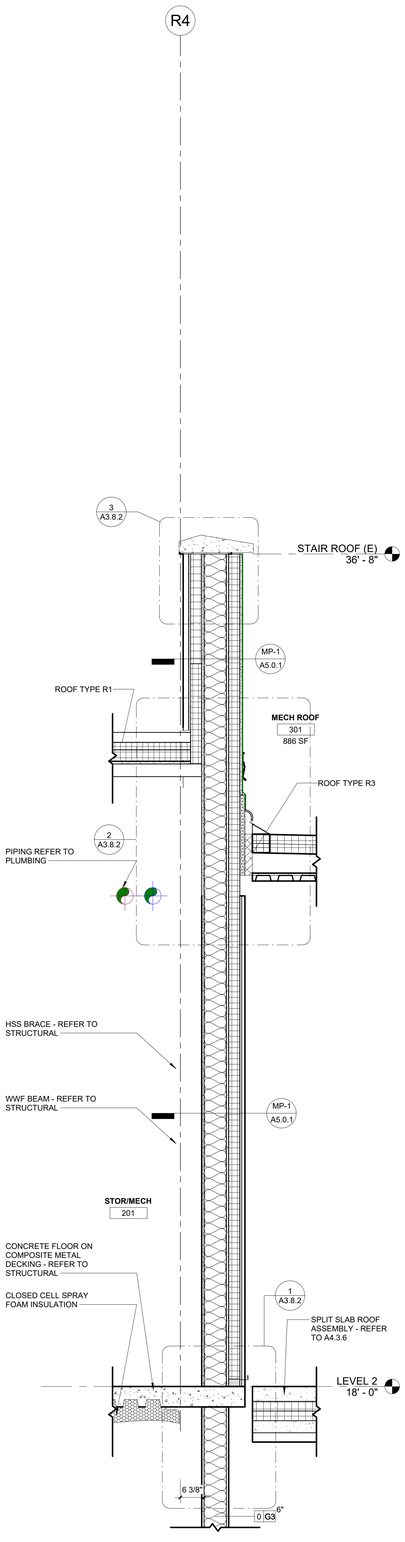
FLOOR/SECTION	PHASE	DRAWING NO.
	BID	A3.1.2



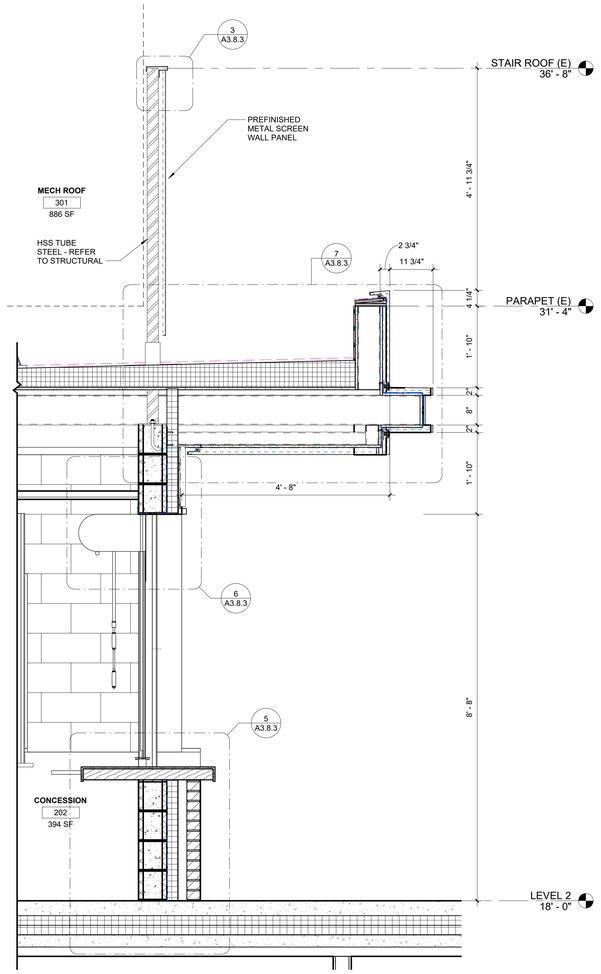
1 PPC TRAINING FACILITY WALL SECTION
SCALE: 3/4" = 1'-0"



2 CONCOURSE MECH WALL SECTION
SCALE: 3/4" = 1'-0"



3 STORAGE/MECH WALL SECTION
SCALE: 3/4" = 1'-0"



4 RIGHT FIELD CONCESSIONS WALL SECTION
SCALE: 3/4" = 1'-0"

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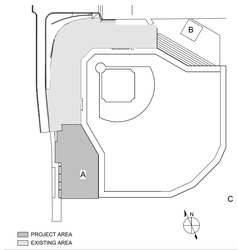

PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

JASON C. KOLAND
REGISTERED
11036
NORTH CAROLINA
CHARLOTTE, NC
9/3/2024

EWINGCOLE, INC.
52711
NORTH CAROLINA
RALEIGH, NC

REVISIONS

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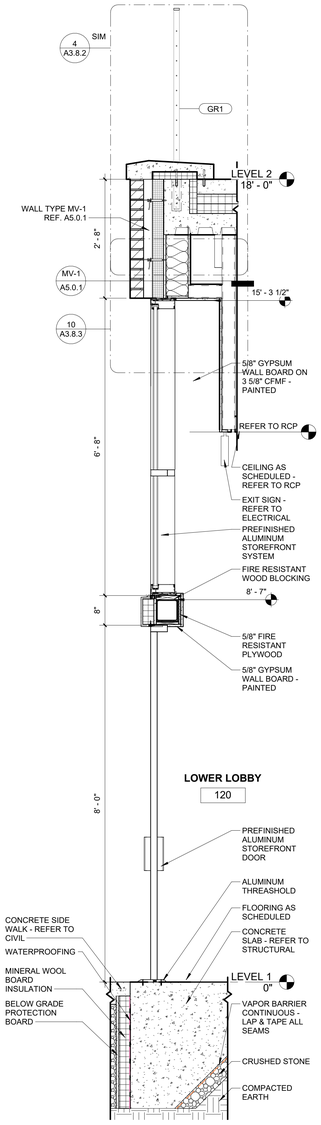
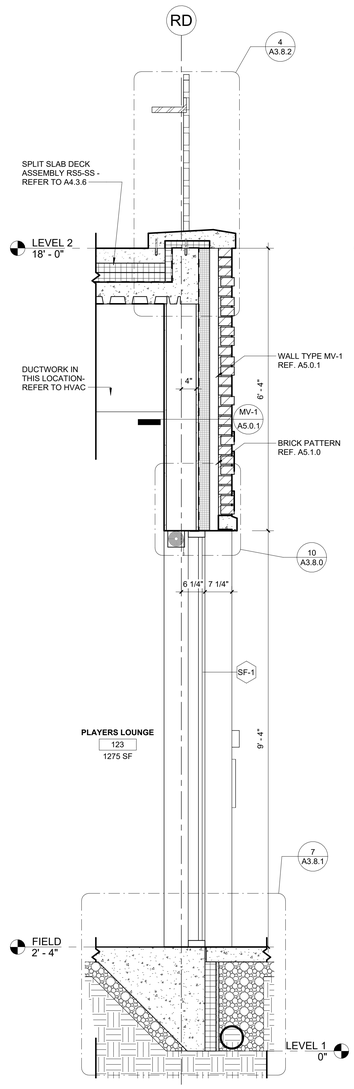
DRAWING NAME

RIGHT FIELD PPC CONCOURSE WALL SECTIONS

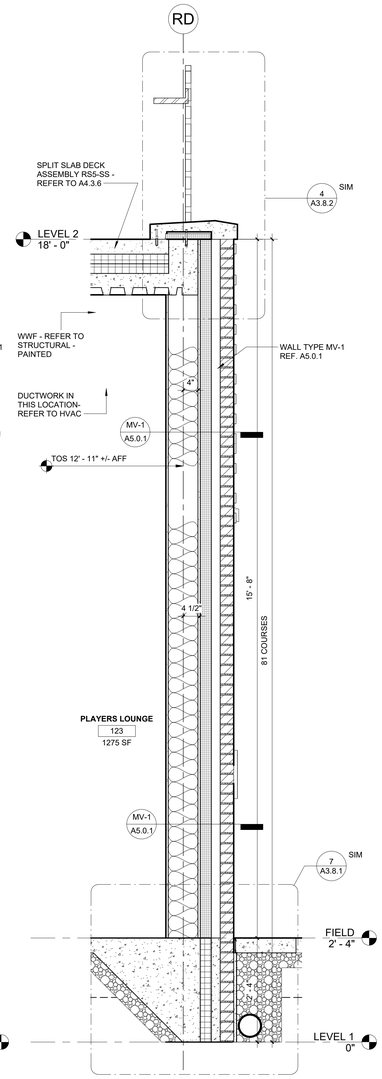
FLOOR/SECTION	PHASE	DRAWING NO.
	BID	A3.1.3



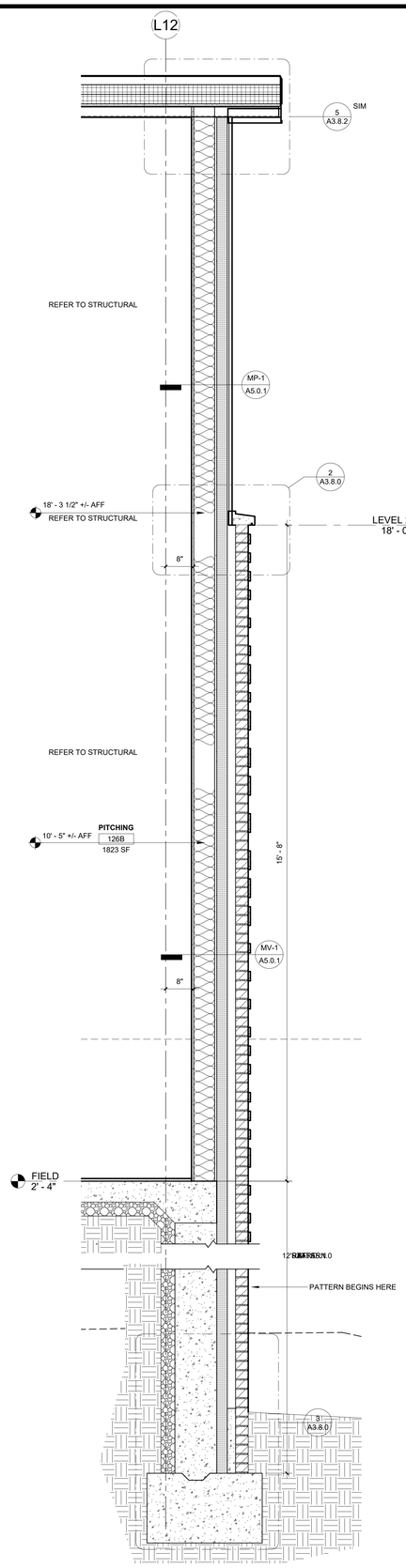
1 LOWER LOBBY MAIN ENTRY
SCALE: 3/4" = 1'-0"



2 RIGHT FIELD CONCOURSE WALL SECTION 1
SCALE: 3/4" = 1'-0"



3 RIGHT FIELD CONCOURSE WALL SECTION 2
SCALE: 3/4" = 1'-0"



4 PPC TRAINING FACILITY SOUTH WALL SECTION
SCALE: 3/4" = 1'-0"

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

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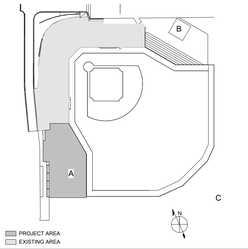

PRINCIPAL
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GEORGE BUSHEY

EWINGCOLE, INC. 52711 REGISTERED RALEIGH, NC
JASON C. KOLAND 11036 REGISTERED ARCHITECT SOUTH CAROLINA CHARLOTTE, NC
7/3/2024

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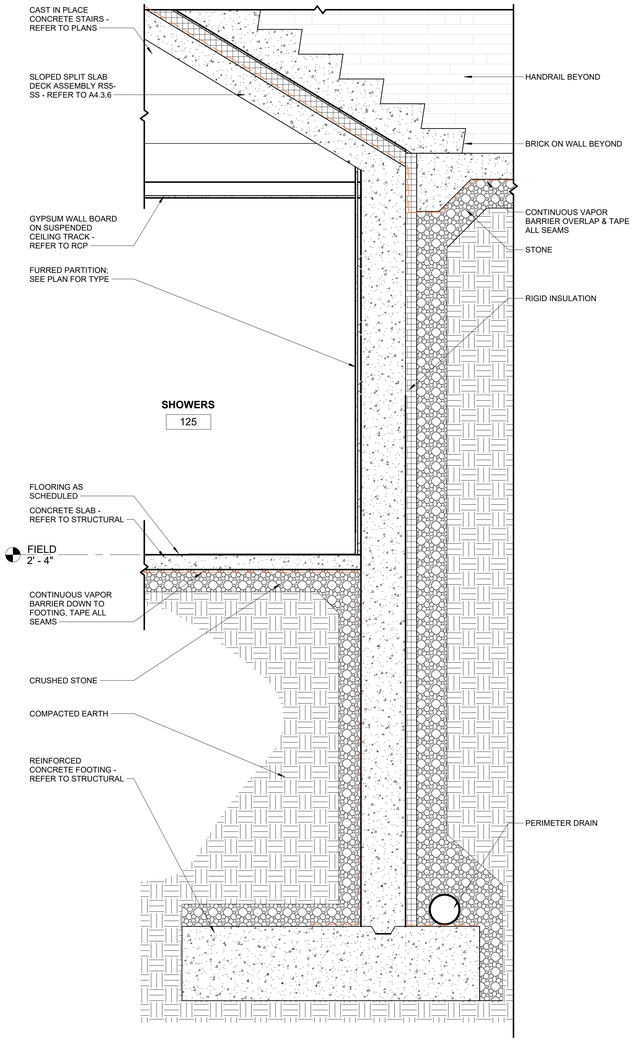
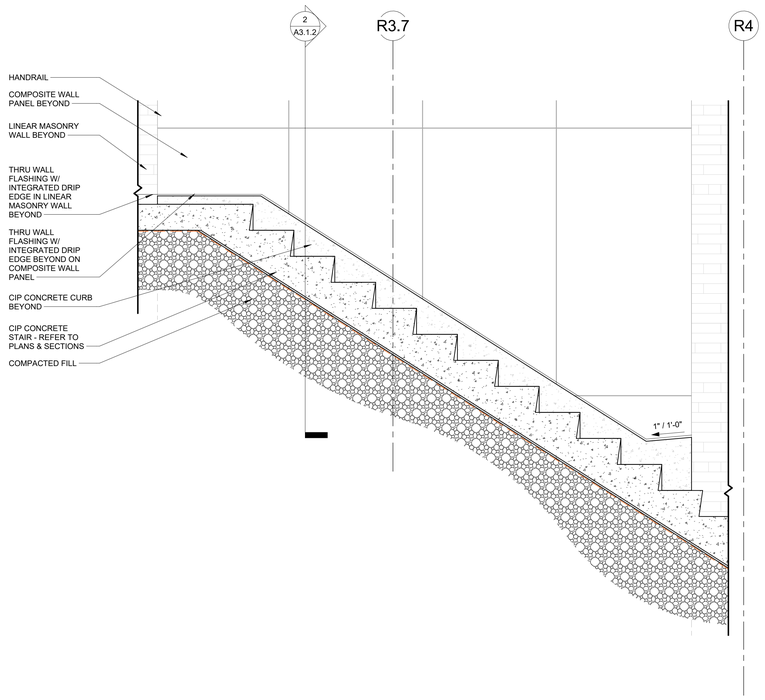
DRAWING NAME

RIGHT FIELD PPC WALL SECTIONS

FLOOR/SECTION PHASE	DRAWING NO.
BID	A3.1.4



1 FEATURE WALL/STAIR SECTION - DETAIL
SCALE: 3/4" = 1'-0"



2 FEATURE WALL/STAIR SECTION - CURB
SCALE: 3/4" = 1'-0"

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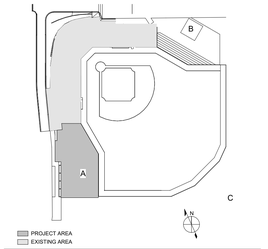

PRINCIPAL
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PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. 52711 NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT RALEIGH, NC

TYSON C. KOLANKO 11036 NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT CHARLOTTE, NC

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DOAK FIELD ENHANCEMENT

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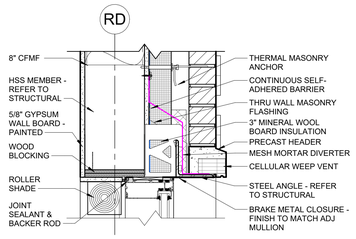
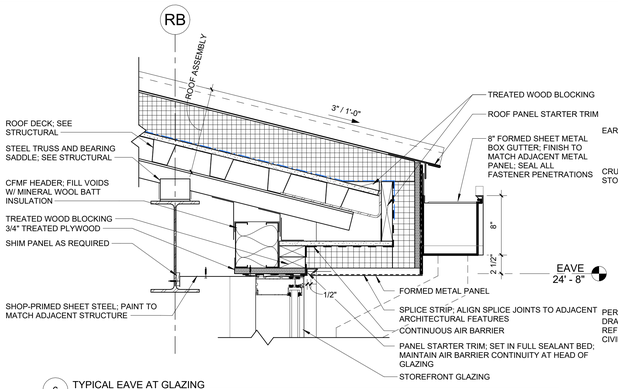
DRAWING NAME

RIGHT FIELD PPC WALL SECTIONS

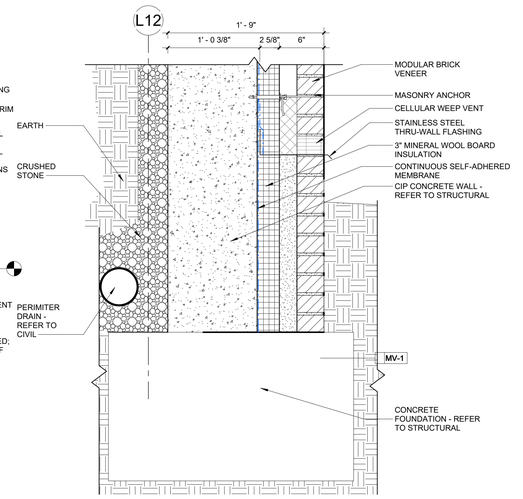
FLOOR/SECTION	PHASE	DRAWING NO.
	BID	A3.1.5



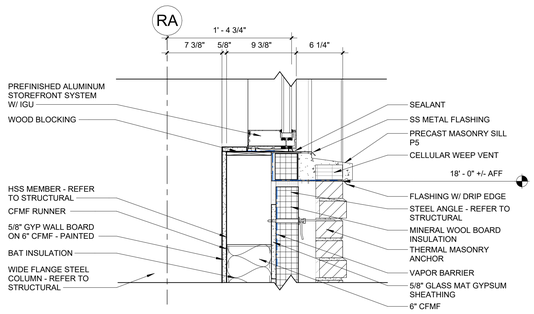
10 SF HEAD - RIGHT FIELD CONCOURSE WALL SECTION
SCALE: 1 1/2" = 1'-0"



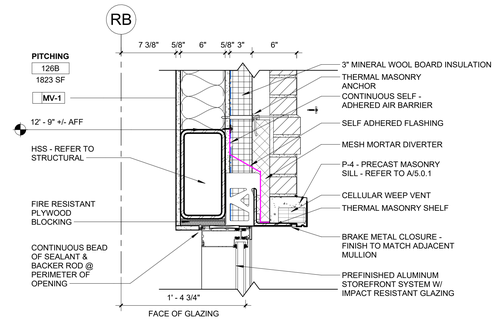
6 TYPICAL EAVE AT GLAZING
SCALE: 1 1/2" = 1'-0"



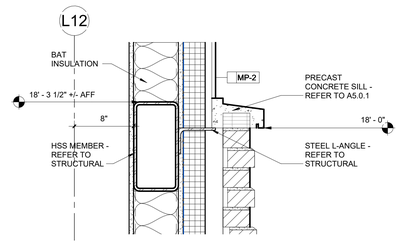
3 MASONRY WALL AT GRADE
SCALE: 1 1/2" = 1'-0"



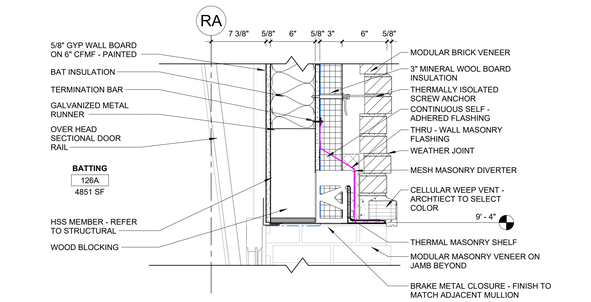
9 STOREFRONT SILL AT MASONRY
SCALE: 1 1/2" = 1'-0"



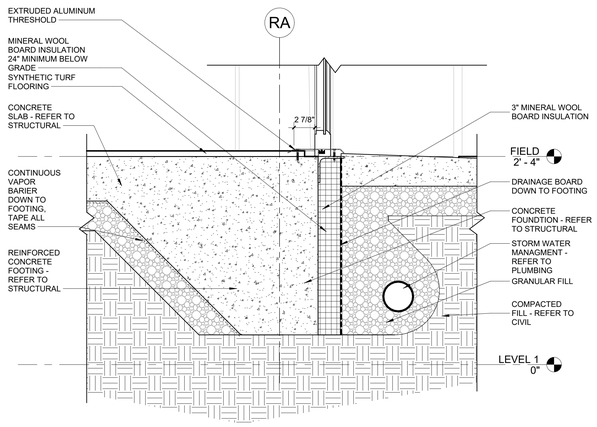
5 TYPICAL HEAD OF OPENING AT MASONRY
SCALE: 1 1/2" = 1'-0"



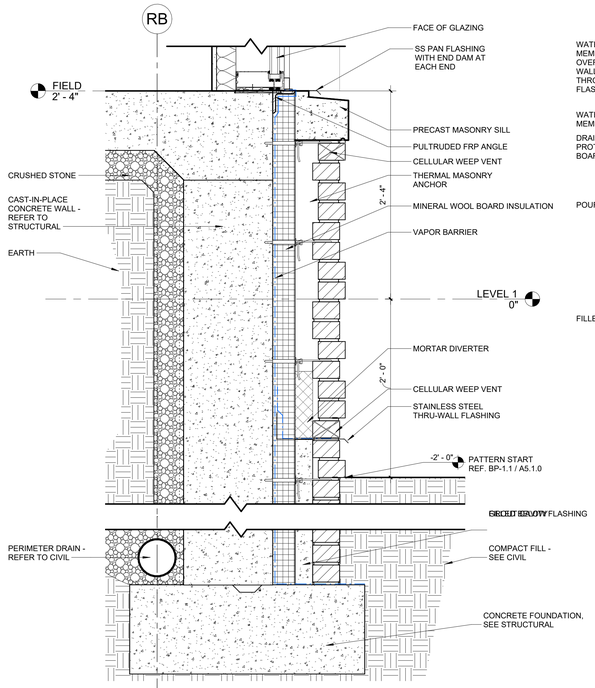
2 MASONRY-METAL PANEL TRANSITION
SCALE: 1 1/2" = 1'-0"



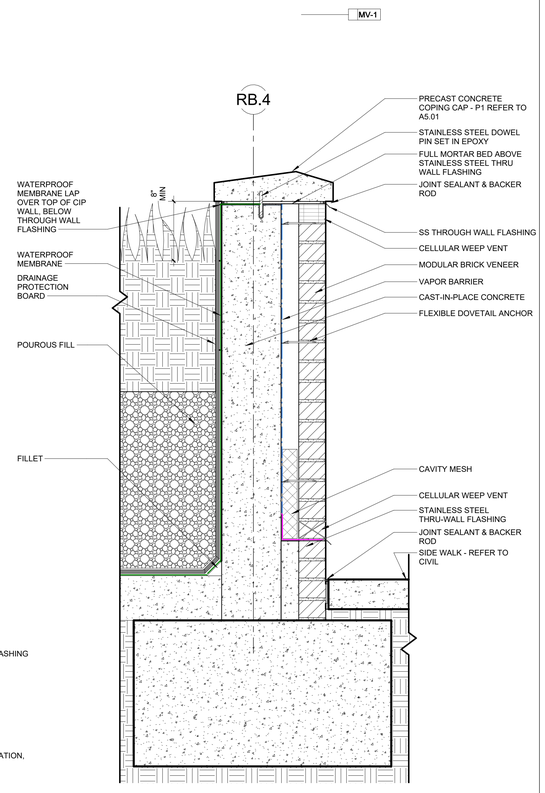
8 HEAD OF PANEL DOOR OPENING IN MASONRY
SCALE: 1 1/2" = 1'-0"



7 THRESHOLD AT GRADE
SCALE: 1 1/2" = 1'-0"



4 MASONRY AT ELEVATED HITTING/PITCHING
SCALE: 1 1/2" = 1'-0"



1 PLANTER WALL AT SIDEWALK
SCALE: 1 1/2" = 1'-0"

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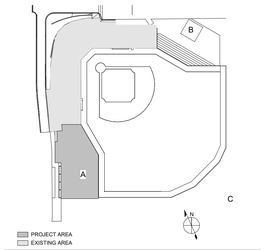

PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. 52711 REGISTERED ARCHITECT RALEIGH, NC
JASON C. KOLAND SEAL 11036 NORTH CAROLINA CHARLOTTE, NC
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REVISIONS

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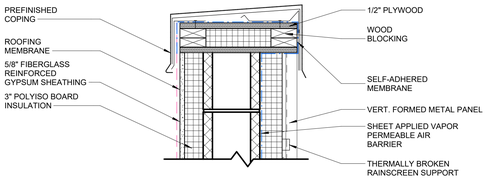
PROJECT NO.	20220400	SCALE	As indicated

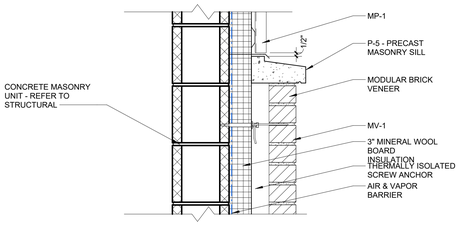
DRAWING NAME

ENLARGED EXTERIOR SECTION DETAILS

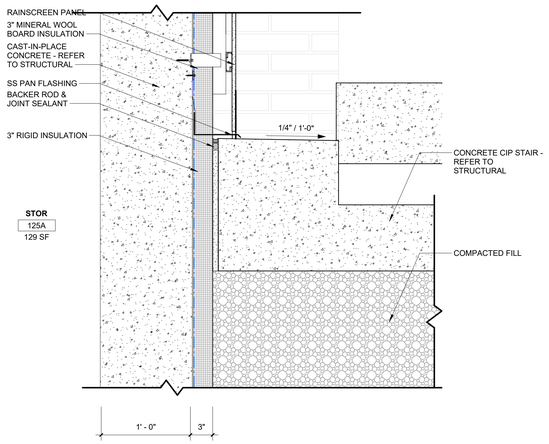
FLOOR/SECTION PHASE: BID
DRAWING NO.: A3.8.0



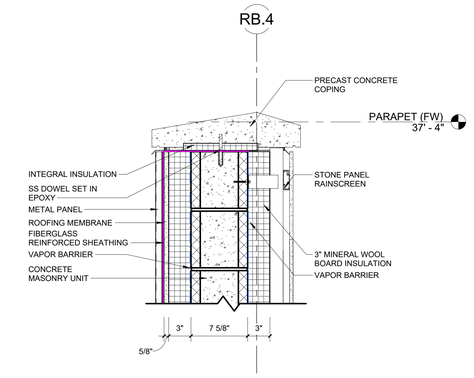
10 COPING AT CONCESSIONS METAL PANEL
SCALE: 1 1/2" = 1'-0"



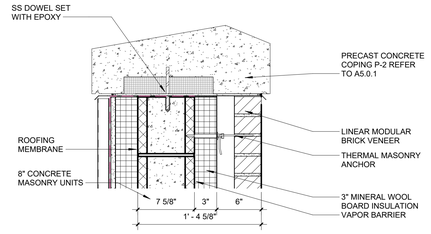
9 SECTION DETAIL - BRICK TO MP
SCALE: 1 1/2" = 1'-0"



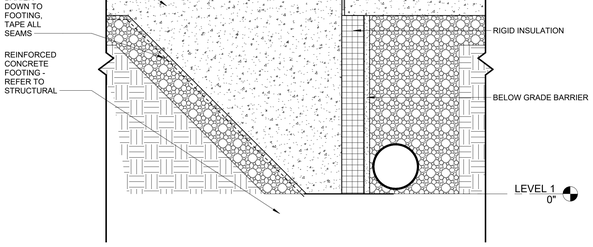
6 FEATURE STAIR CURB AT RAINSCREEN INSET
SCALE: 1 1/2" = 1'-0"



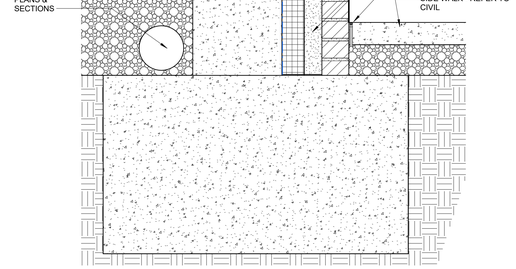
4 FEATURE WALL PARAPET AT RAINSCREEN
SCALE: 1 1/2" = 1'-0"



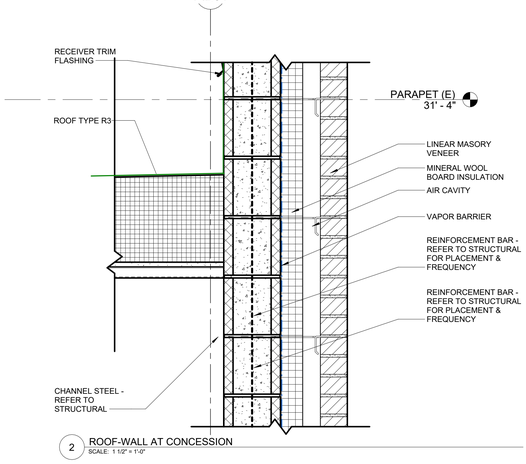
3 PARAPET AT CONCESSION
SCALE: 1 1/2" = 1'-0"



8 DOOR SILL AT WARMUP-LOUNGE
SCALE: 1 1/2" = 1'-0"

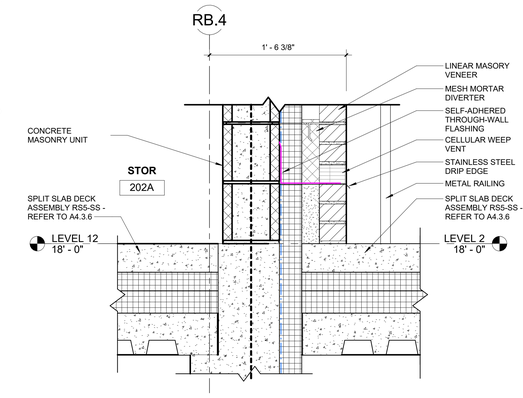


5 WALL AT FEATURE STAIR
SCALE: 1 1/2" = 1'-0"



2 ROOF-WALL AT CONCESSION
SCALE: 1 1/2" = 1'-0"

7 STOREFRONT SILL AT GRADE
SCALE: 1 1/2" = 1'-0"



1 CONCESSION/FEATURE WALL AT STAIR LANDING
SCALE: 1 1/2" = 1'-0"

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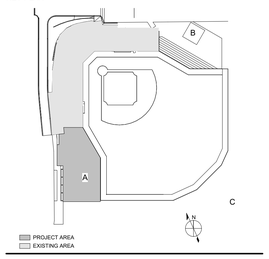
KEY PLAN



PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. ARCHITECTURE PLANNING INTERIORS 52711 NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT RALEIGH, NC

JASON C. KOLLMAN 11036 REGISTERED PROFESSIONAL ENGINEER NORTH CAROLINA CHARLOTTE, NC
9/3/2024

REVISIONS

NO.	BY	DESCRIPTION	DATE
	EC	ISSUE FOR BID	09/03/2024

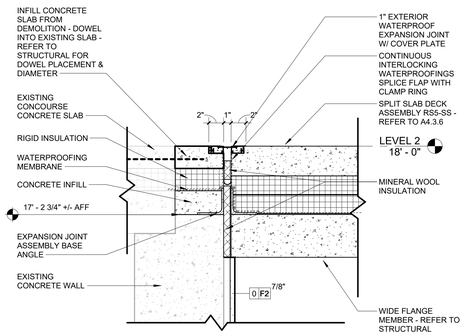
NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

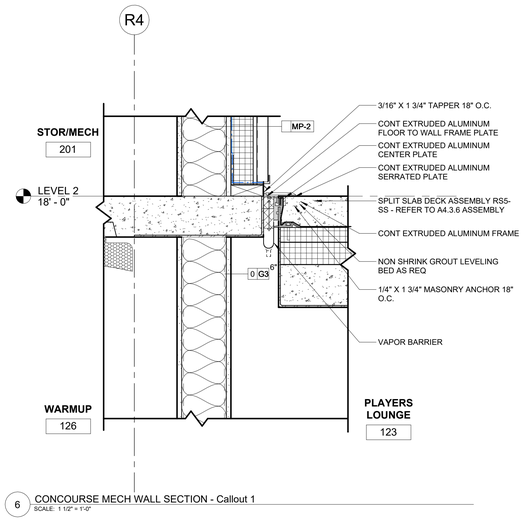
DRAWN BY	CB, GW	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	As indicated

DRAWING NAME
ENLARGED EXTERIOR SECTION DETAILS

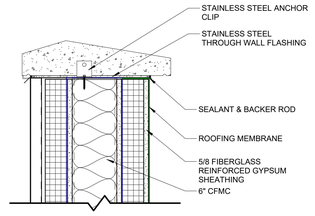
FLOOR/SECTION	PHASE	DRAWING NO.
	BID	A3.8.1



9 CONCOURSE EXPANSION JOINT - MM SYSTEMS - SSD EXP. JOINT
SCALE: 1 1/2" = 1'-0"



6 CONCOURSE MECH WALL SECTION - Callout 1
SCALE: 1 1/2" = 1'-0"

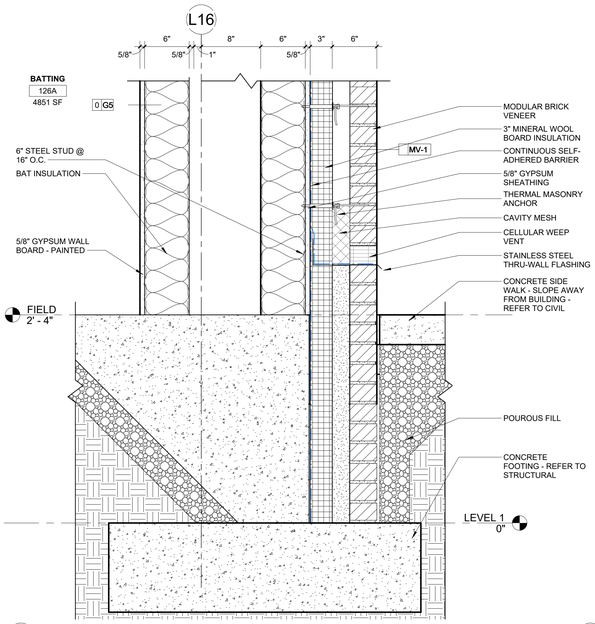


3 SECTION DETAIL - FEATURE WALL SOUTH CORNER
SCALE: 1 1/2" = 1'-0"

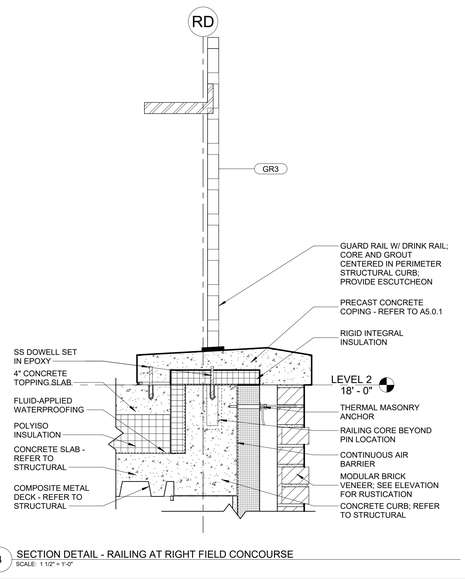
8 SECTION DETAIL - PPC EAVE
SCALE: 1 1/2" = 1'-0"

5 SECTION DETAIL - CONCOURSE MECH ROOF
SCALE: 1 1/2" = 1'-0"

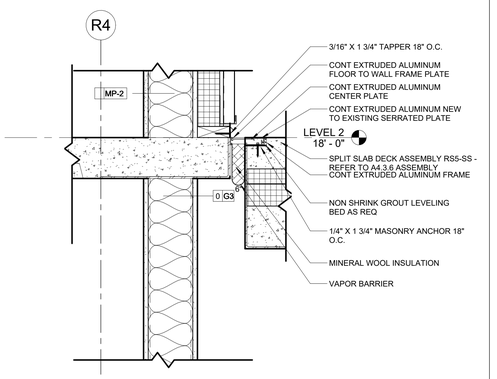
2 SECTION DETAIL - STORAGE/MECH WALL
SCALE: 1 1/2" = 1'-0"



7 FOUNDATION AT MASONRY WALL & SITE PAVING
SCALE: 1 1/2" = 1'-0"



4 SECTION DETAIL - RAILING AT RIGHT FIELD CONCOURSE
SCALE: 1 1/2" = 1'-0"



1 SECTION DETAIL - PPC/CONCOURSE SLAB
SCALE: 1 1/2" = 1'-0"

SECTION NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND POSTING ALL REQUIRED LOCAL AND STATE CONSTRUCTION PERMITS.
2. VERIFY ALL EXISTING FIELD CONDITIONS ARE CONSISTENT WITH THE DOCUMENTS BEFORE PROCEEDING. REPORT INCONSISTENCIES TO THE ARCHITECT.
3. ACCESS TO AREAS OUTSIDE THE PROJECT AREA LINE SHALL BE COORDINATED IN ADVANCE WITH THE OWNER.
4. ALL UTILITY SHUT DOWNS OR SUSPENSION OF MECHANICAL OR ELECTRICAL SERVICES SHALL BE SCHEDULED IN ADVANCE WITH THE OWNER.

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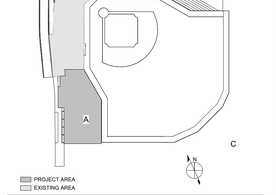
NC STATE PROJ. NO. 202120015

KEY PLAN



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PROJECT MANAGER
GEORGE BUSHEY

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JASON C. KOLAKO 11036 REGISTERED ARCHITECT NORTH CAROLINA CHARLOTTE, NC
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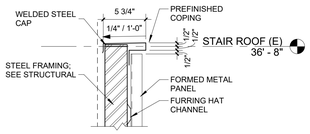
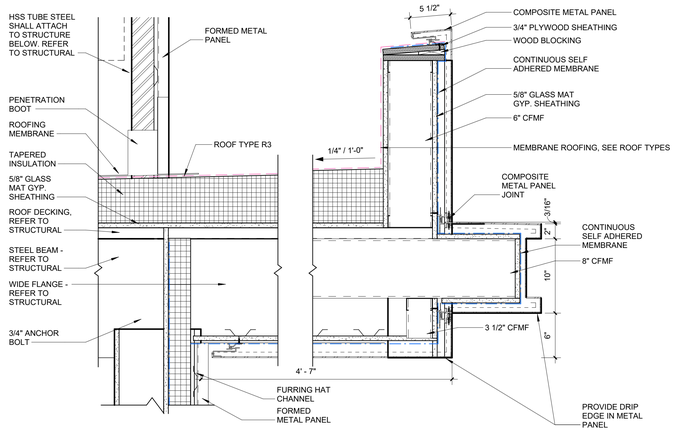
ENLARGED EXTERIOR SECTION DETAILS

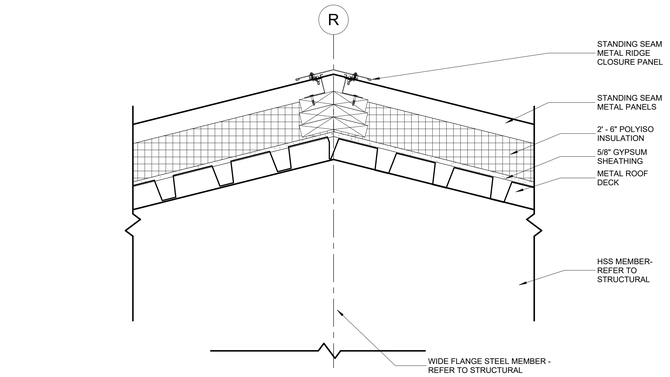
FLOOR/SECTION	PHASE	DRAWING NO.
	BID	A3.8.2



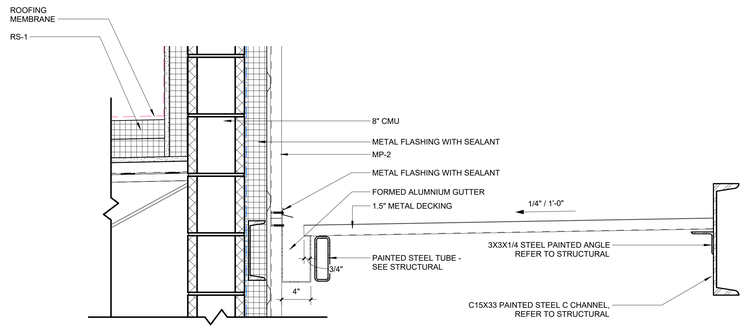
3 SECTION DETAIL - PARAPET SCREEN TOP
SCALE: 1 1/2" = 1'-0"



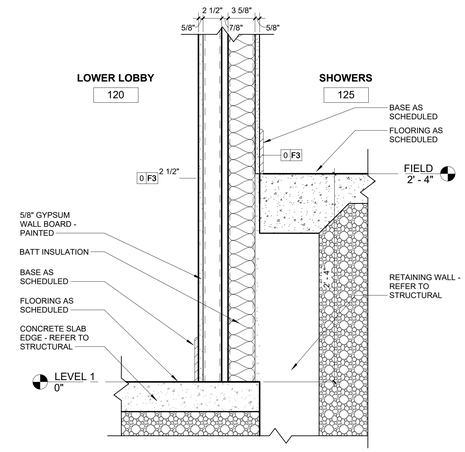
7 SECTION DETAIL - RIGHT FIELD CONCESSIONS OVERHANG
SCALE: 1 1/2" = 1'-0"



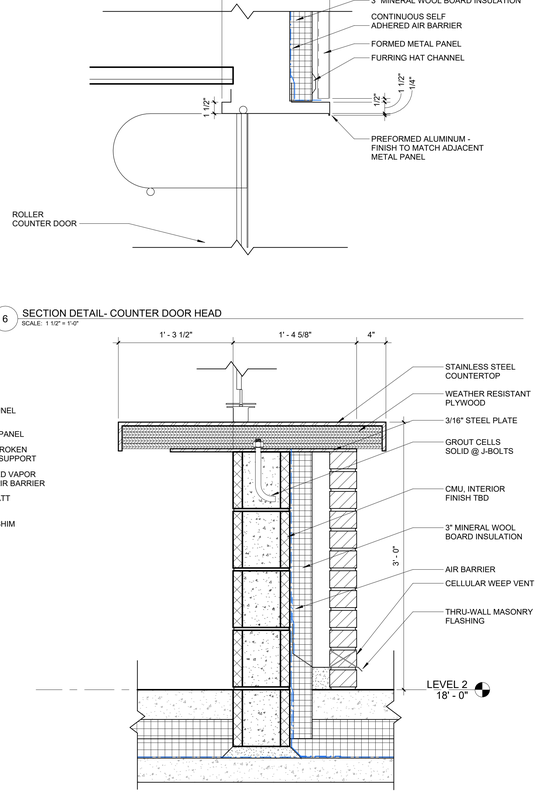
8 SECTION DETAIL - PPC ROOF RIDGE
SCALE: 1 1/2" = 1'-0"



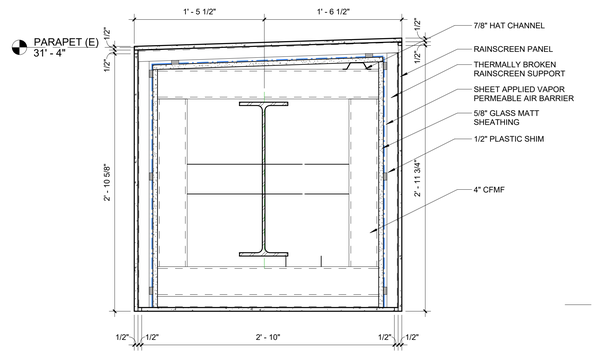
11 SECTION DETAIL-LEFT FIELD CANOPY-ALTERNATE 1
SCALE: 1 1/2" = 1'-0"



2 SECTION DETAIL - LOWER LOBBY FURRING
SCALE: 1 1/2" = 1'-0"

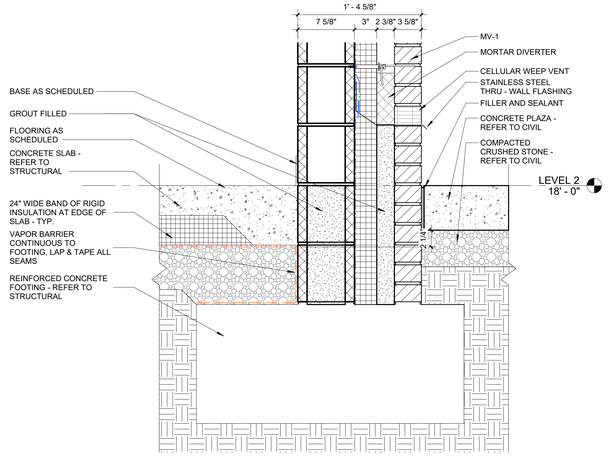


6 SECTION DETAIL- COUNTER DOOR HEAD
SCALE: 1 1/2" = 1'-0"

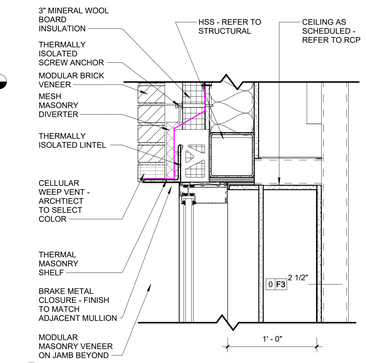


1 SECTION DETAIL - STUDENT ENTRY
SCALE: 1 1/2" = 1'-0"

5 SECTION DETAIL - RIGHT FIELD CONCESSIONS
SCALE: 1 1/2" = 1'-0"



9 SECTION DETAIL - BRICK TO OFFSET BRICK
SCALE: 1 1/2" = 1'-0"



10 SECTION DETAIL
SCALE: 1 1/2" = 1'-0"

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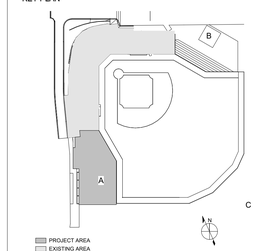

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JASON C. KOLANKO LICENSED ARCHITECT 11036 NORTH CAROLINA REGISTERED CHARLOTTE, NC
7/3/2024

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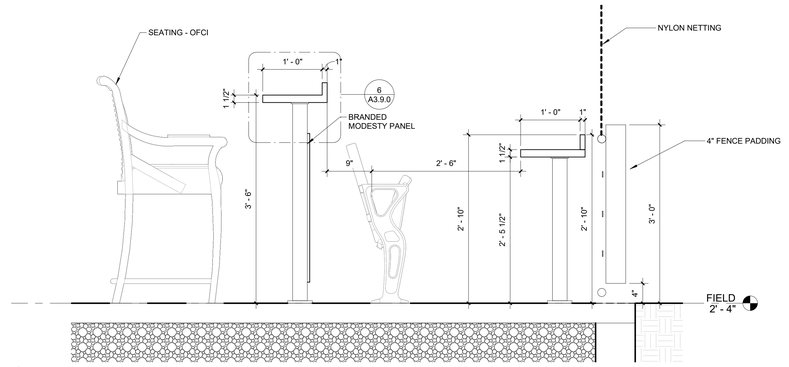
PROJECT NO.	20220400	SCALE	1 1/2" = 1'-0"

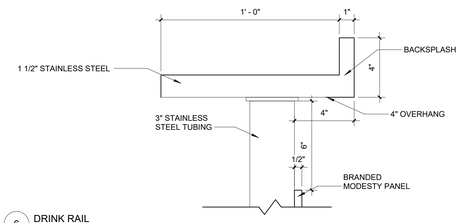
DRAWING NAME

ENLARGED EXTERIOR SECTION DETAILS

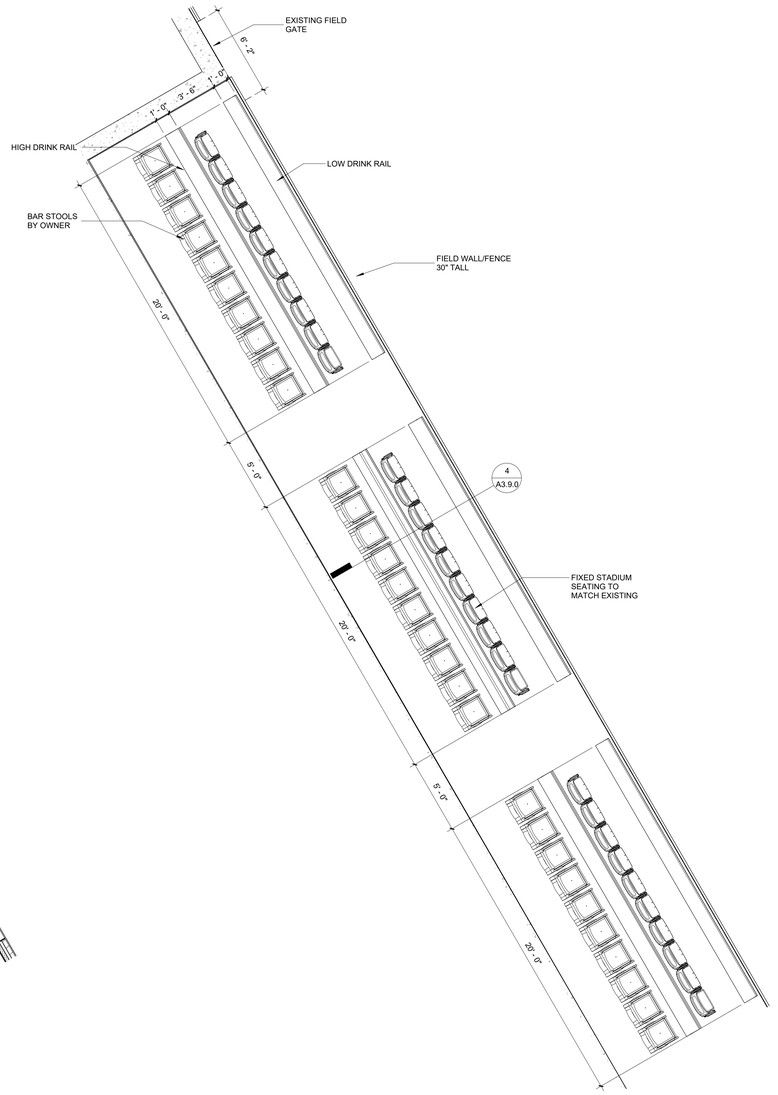
FLOOR/SECTION	PHASE	DRAWING NO.
	BID	A3.8.3



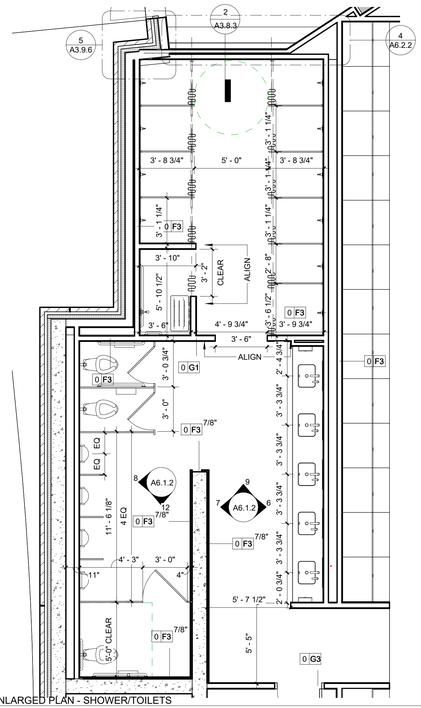
4 SECTION DETAIL - VIP SEATING
SCALE: 1" = 1'-0"



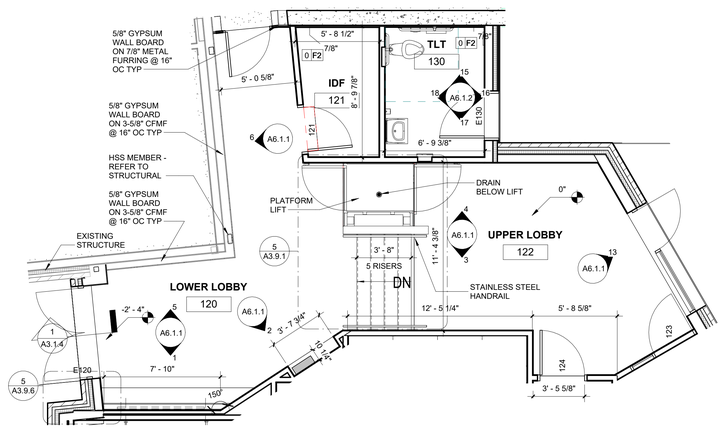
6 DRINK RAIL
SCALE: 3" = 1'-0"



5 ENLARGED PLAN - VIP DRINK RAILS
SCALE: 1/4" = 1'-0"



1 ENLARGED PLAN - SHOWER/TOILETS
SCALE: 1/4" = 1'-0"



3 ENLARGED PLAN - LOWER AND UPPER LOBBY
SCALE: 1/4" = 1'-0"

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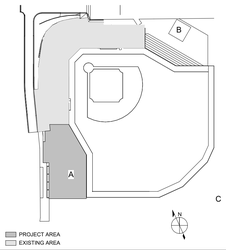

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PROJECT MANAGER
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EWINGCOLE, INC.
PROFESSIONAL ENGINEER
52711
MCCULLOUGH
RALEIGH, NC

JASON C. KOLANKO
REGISTERED LANDSCAPE ARCHITECT
11036
NORTH CAROLINA
CHARLOTTE, NC
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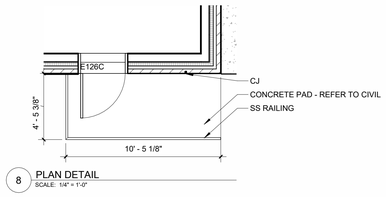
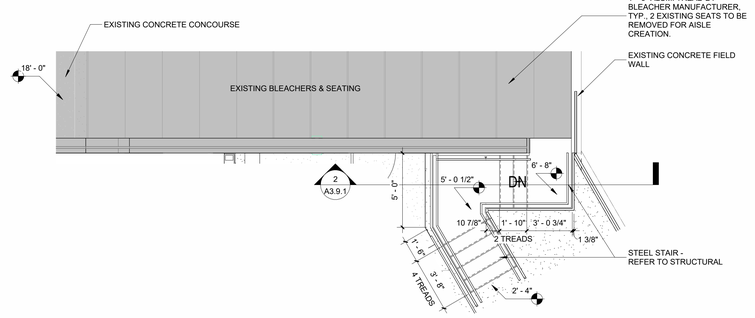
ENLARGED PPC PLANS

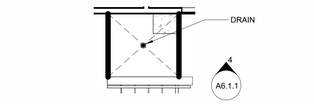
FLOOR/SECTION	PHASE	DRAWING NO.
	BID	A3.9.0



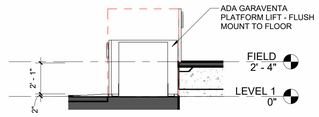
8 PLAN DETAIL
SCALE: 1/4" = 1'-0"



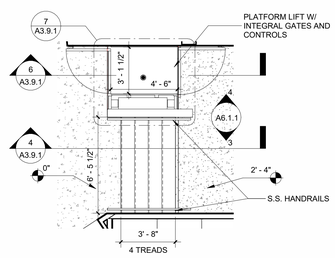
3 CONNECTING STAIR TO 2ND CONCOURSE
SCALE: 1/4" = 1'-0"



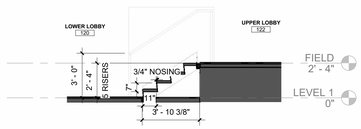
7 PLATFORM LIFT PIT ENLARGED PLAN
SCALE: 1/4" = 1'-0"



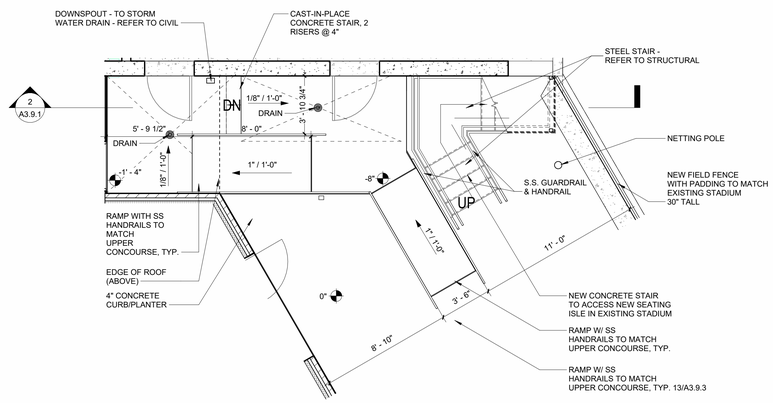
6 PLATFORM LIFT SECTION
SCALE: 1/4" = 1'-0"



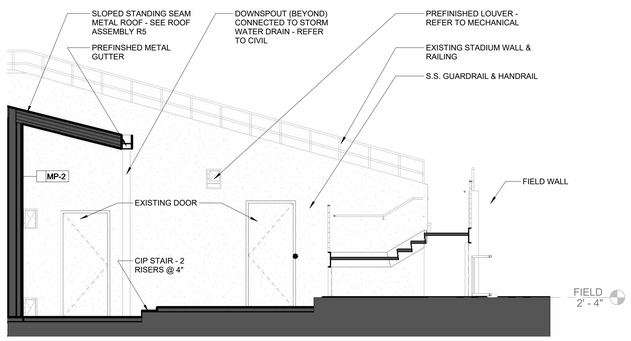
5 LOBBY STAIR AND PLATFORM LIFT ENLARGED PLAN
SCALE: 1/4" = 1'-0"



4 PPC LOBBY STAIR
SCALE: 1/4" = 1'-0"



1 ENLARGED PLAN - CONCOURSE/EXISTING STRUCTURE ACCESS
SCALE: 1/4" = 1'-0"



2 CONNECTING STAIR SECTION
SCALE: 1/4" = 1'-0"

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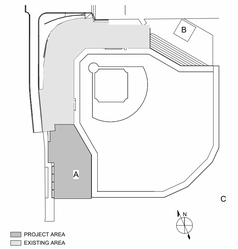

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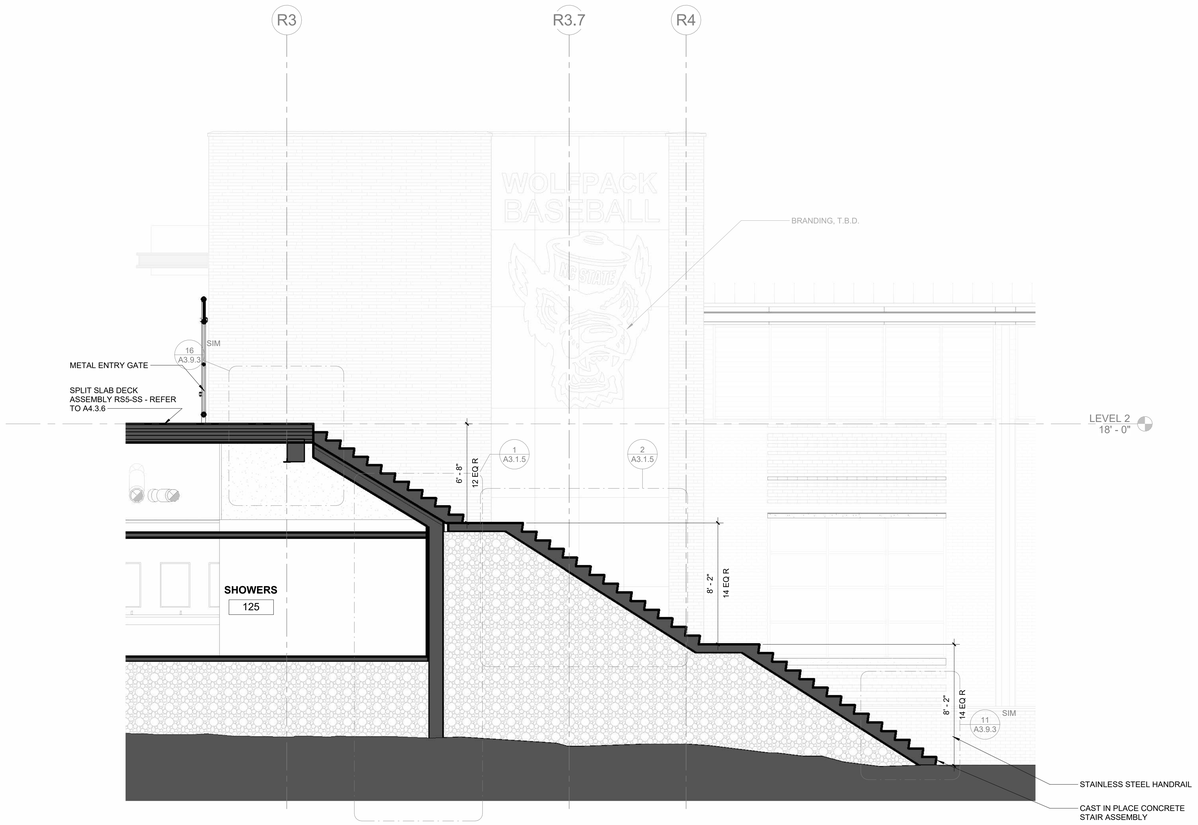
DRAWING NAME

ENLARGED STAIR PLANS

FLOOR/SECTION	PHASE	DRAWING NO.
	BID	A3.9.1



2 FEATURE WALL/STAIR SECTION
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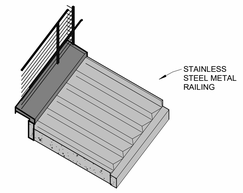
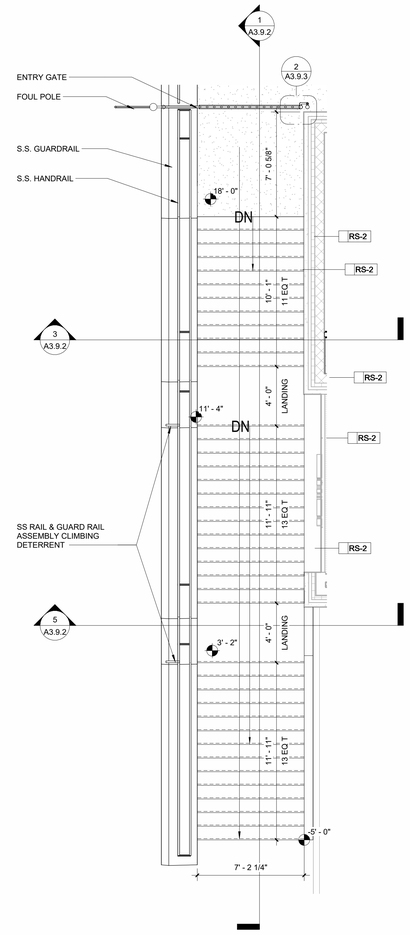
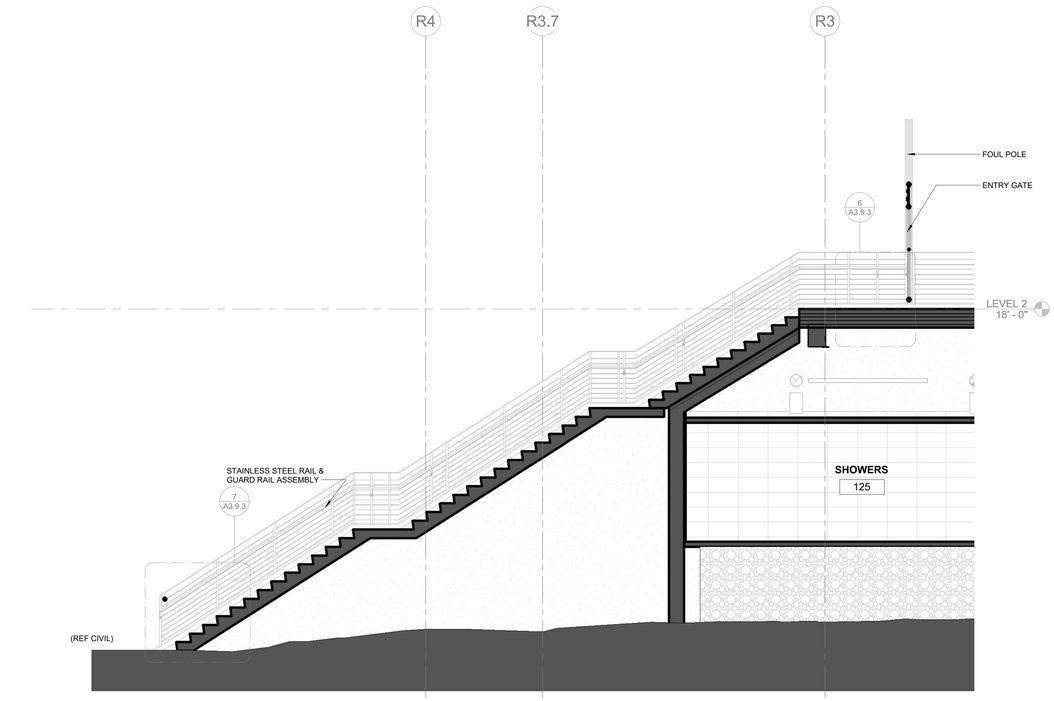


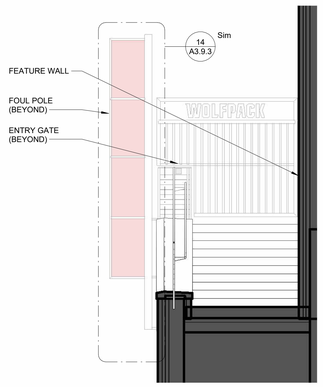
4 ENTRY STAIR & GUTTER AXON
SCALE:



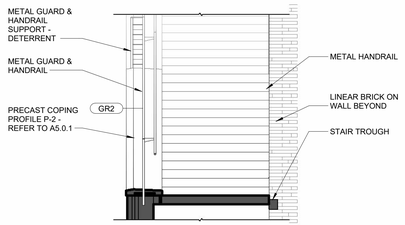
6 PPC ENTRY STAIR ENLARGED PLAN
SCALE: 1/4" = 1'-0"



1 ENTRY STAIR N-S SECTION
SCALE: 1/4" = 1'-0"



3 ENTRY STAIR FEATURE WALL SECTION
SCALE: 1/4" = 1'-0"



5 ENTRY STAIR E-W SECTION
SCALE: 1/4" = 1'-0"

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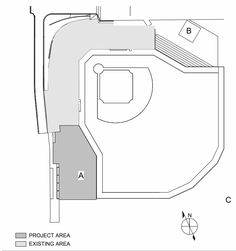

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EWING COLE, INC. ENGINEERING CORPORATE SEAL 52711 REGISTERED PROFESSIONAL ENGINEER RALEIGH, NC

JASON C. ROLLINS SEAL 11036 NORTH CAROLINA CHARLOTTE, NC
7/5/2024

REVISIONS

NO.	BY	DESCRIPTION	DATE
	EC	ISSUE FOR BID	09/03/2024

NC STATE UNIVERSITY

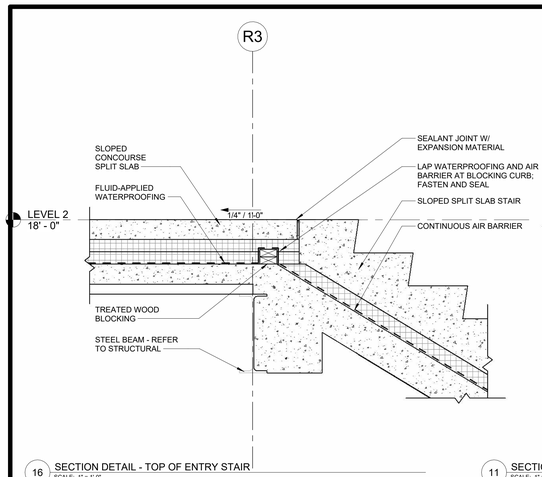
DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	CB, GW	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	1/4" = 1'-0"

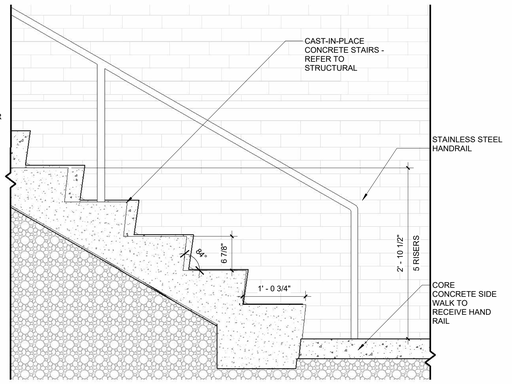
DRAWING NAME

ENLARGED STAIR PLANS

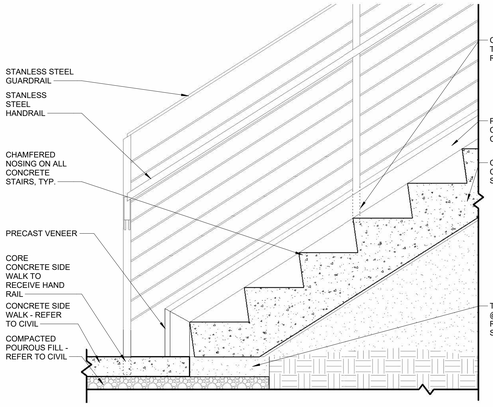
FLOOR/SECTION	PHASE	DRAWING NO.
	BID	A3.9.2



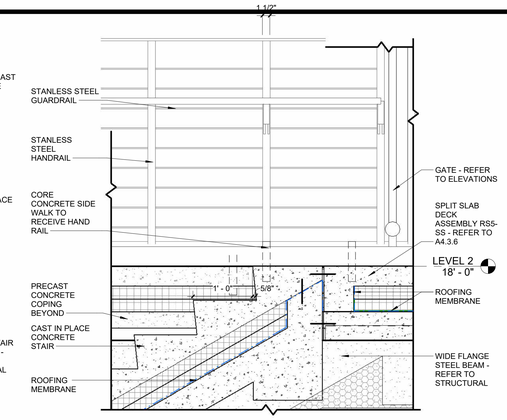
16 SECTION DETAIL - TOP OF ENTRY STAIR
SCALE: 1" = 1'-0"



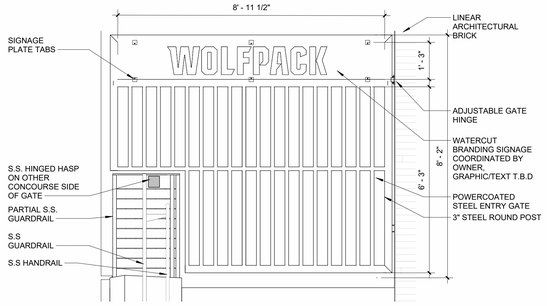
11 SECTION DETAIL - BOTTOM OF ENTRY STAIR
SCALE: 1" = 1'-0"



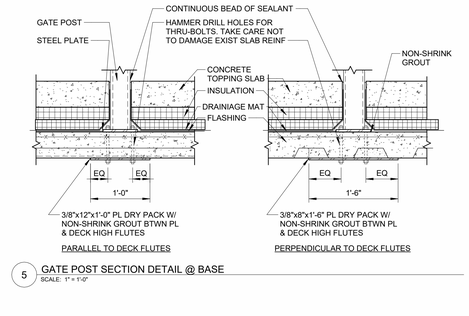
7 ENTRY STAIR N-S SECTION DETAIL
SCALE: 1" = 1'-0"



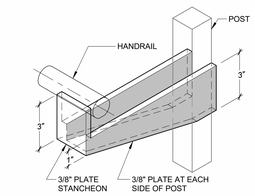
6 ENTRY STAIR N-S SECTION DETAIL
SCALE: 1" = 1'-0"



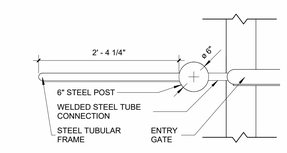
15 ENTRY GATE - SOUTH ELEVATION
SCALE: 1/2" = 1'-0"



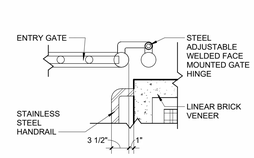
5 GATE POST SECTION DETAIL @ BASE
SCALE: 1" = 1'-0"



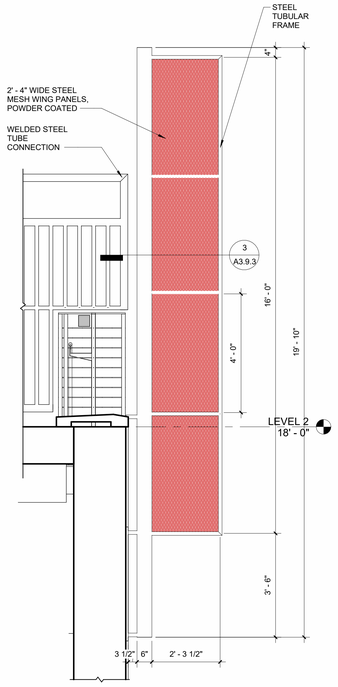
4 HANDRAIL BRACKET - GR2
SCALE: 3" = 1'-0"



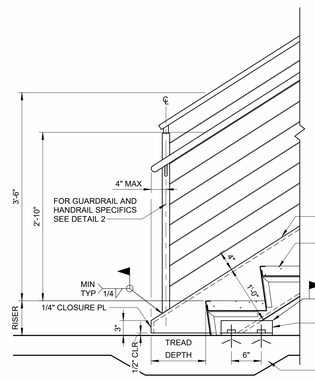
3 FOUL POLE ENLARGED PLAN
SCALE: 1" = 1'-0"



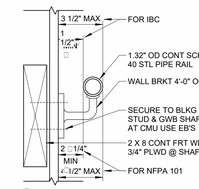
2 ENTRY GATE HINGE CONNECTION
SCALE: 1" = 1'-0"



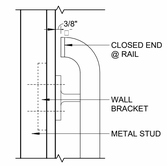
14 PPC ENTRY GATE FOUL POLE
SCALE: 1/2" = 1'-0"



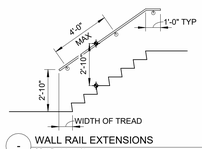
13 STAIR - BASE OF STAIR
SCALE: 1" = 1'-0"



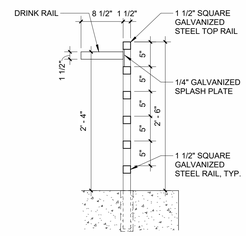
- SECTION
SCALE: 3" = 1'-0"

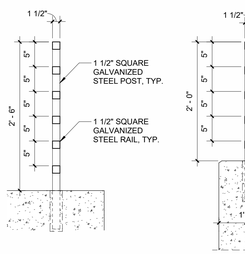


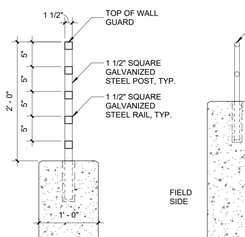
- PLAN
SCALE: 3" = 1'-0"

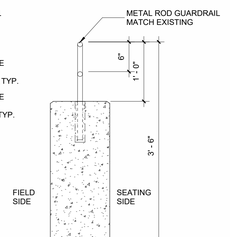


- WALL RAIL EXTENSIONS
SCALE: 1/4" = 1'-0"

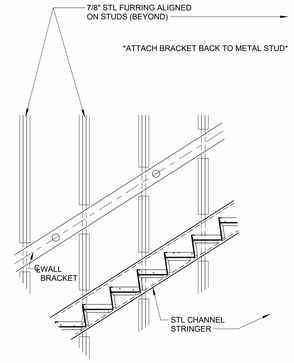




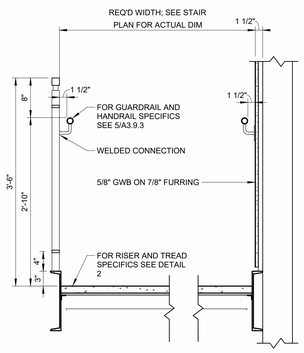




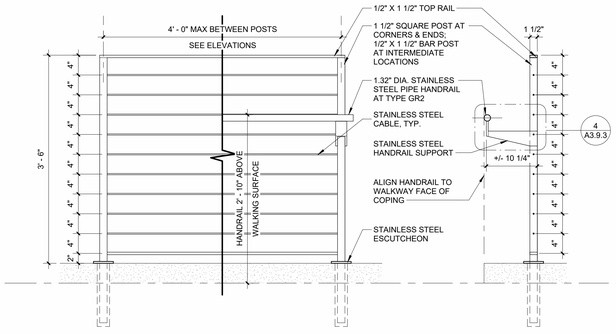
9 WALL RAIL DETAILS
SCALE: 1/4" = 1'-0"



12 WALL RAIL DETAIL
SCALE: 1/2" = 1'-0"



8 STAIR - CROSS SECTION
SCALE: 1" = 1'-0"



1 GUARDRAIL TYPES - BASE BID
SCALE: 1" = 1'-0"

EWING COLE
8208 Brownleigh Drive, Suite 200
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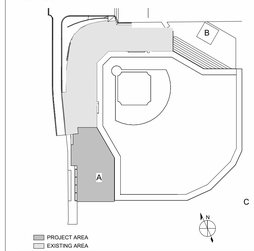
Tel: 919-460-6700 Fax: 919-460-6733

CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. REGISTERED ARCHITECTURAL CORPORATION 52711 RALEIGH, NC

JASON C. ROLLINS REGISTERED LANDSCAPE ARCHITECT 1103G NORTH CAROLINA CHARLOTTE, NC
9/5/2024

REVISIONS

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NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	CB, GW	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	As indicated

DRAWING NAME
ENLARGED STAIR, GATE AND RAILING DETAILS

FLOOR/SECTION PHASE: BID
DRAWING NO.: A3.9.3

1 GUARDRAIL TYPES - ALTERNATE 2
SCALE: 1" = 1'-0"

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CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN

PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. PROFESSIONAL ENGINEER 52711 KENTUCKY RALEIGH, NC

JASON C. KOLLMO REGISTERED PROFESSIONAL ENGINEER 11036 NORTH CAROLINA CHARLOTTE, NC

9/3/2024

REVISIONS

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NC STATE UNIVERSITY

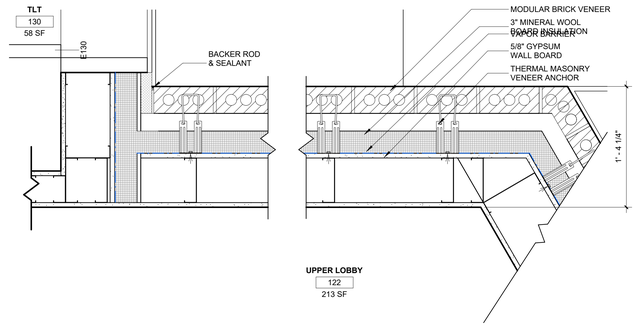
DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	ADC	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	1" = 1'-0"

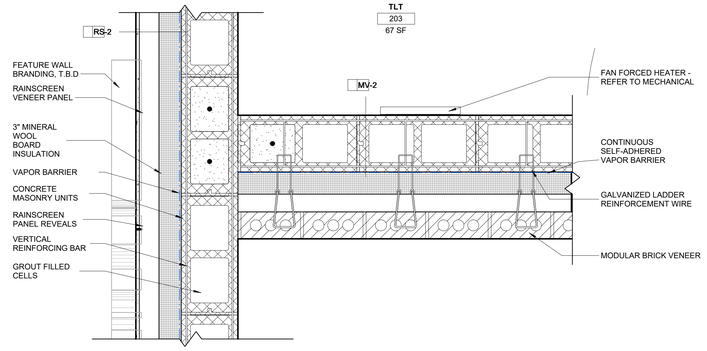
DRAWING NAME

ENLARGED RAILING DETAILS - ALTERNATE 2

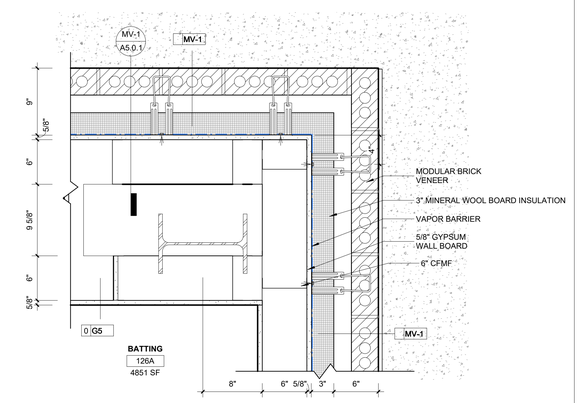
FLOOR/SECTION	PHASE	DRAWING NO.
A	BID	A3.9.3A



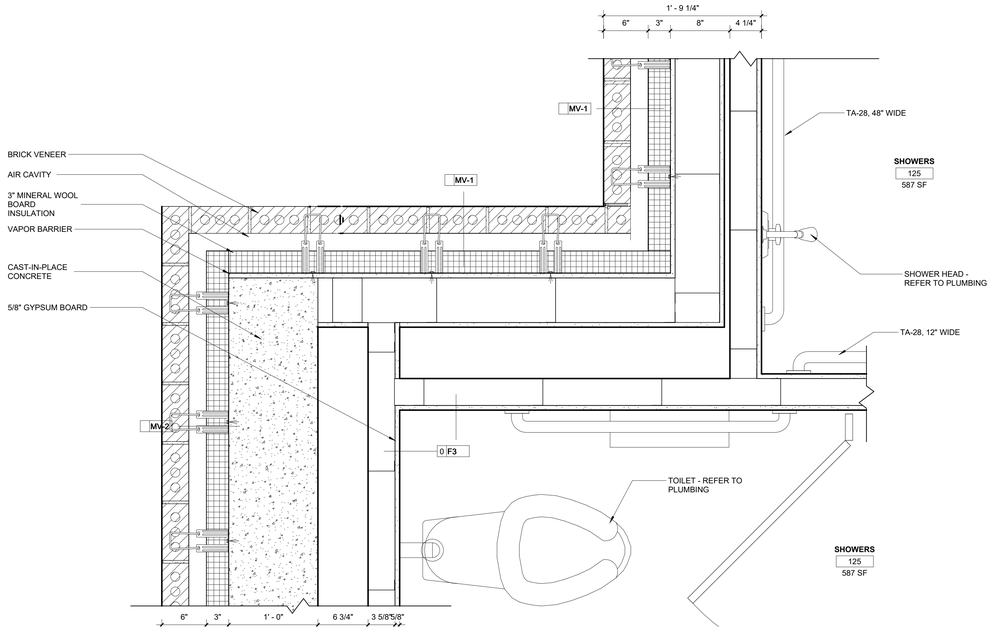
3 PLAN DETAIL - LEVEL 1 UPPER LOBBY NORTH CORNER
SCALE: 1 1/2" = 1'-0"



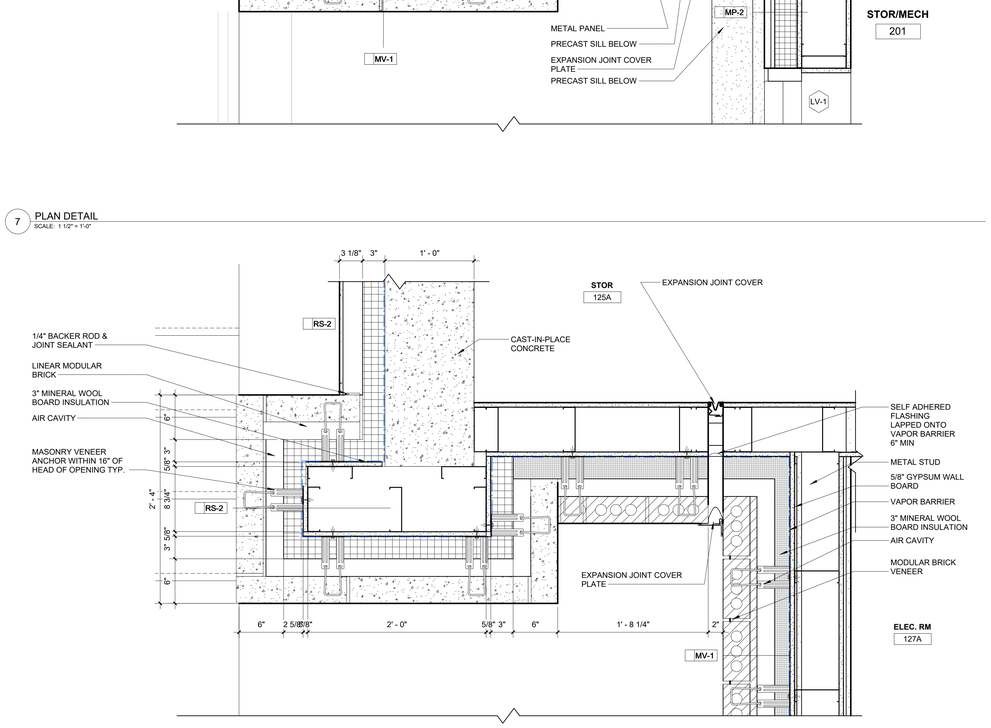
5 PLAN DETAIL - LEVEL 2 FEATURE WALL/PPC
SCALE: 1 1/2" = 1'-0"



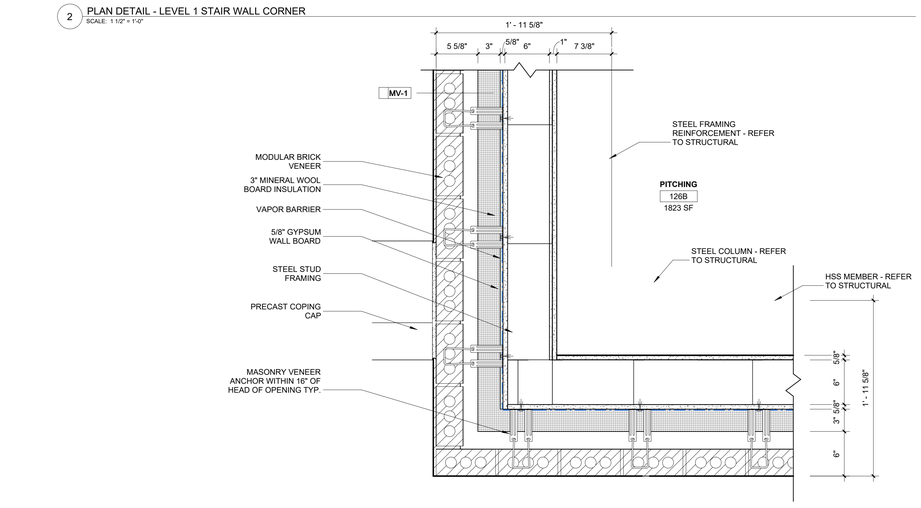
6 PLAN DETAIL - LEVEL 1 PPC NORTHEAST CORNER
SCALE: 1 1/2" = 1'-0"



2 PLAN DETAIL - LEVEL 1 STAIR WALL CORNER
SCALE: 1 1/2" = 1'-0"



7 PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



1 PLAN DETAIL - LEVEL 1 PPC SOUTHWEST CORNER
SCALE: 1 1/2" = 1'-0"

4 PLAN DETAIL - LEVEL 1 FEATURE WALL SOUTH CORNER
SCALE: 1 1/2" = 1'-0"

EWING COLE
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CONSULTANTS

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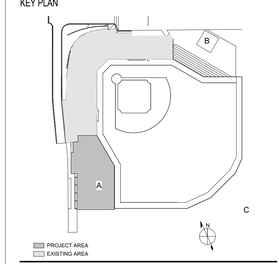
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. REGISTERED ENGINEERING CORPORATION 52711 NORTH CAROLINA RALEIGH, NC

JASON C. KOLLMAN REGISTERED PROFESSIONAL ENGINEER 11036 NORTH CAROLINA CHARLOTTE, NC
9/3/2024

REVISIONS

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NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT

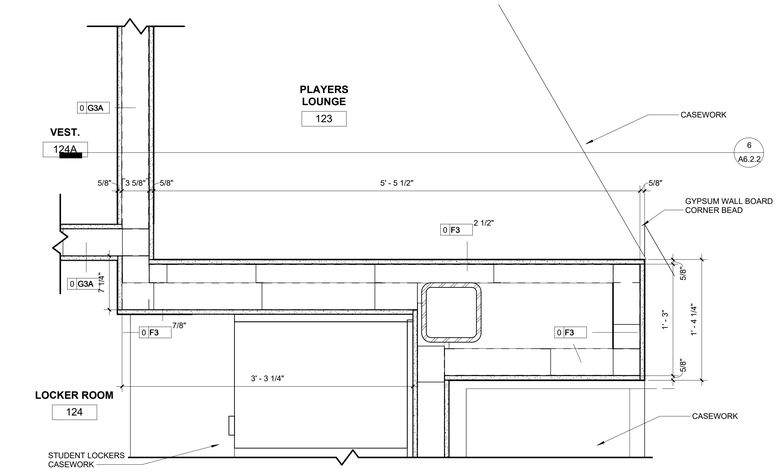
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	CB, GW	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	1 1/2" = 1'-0"

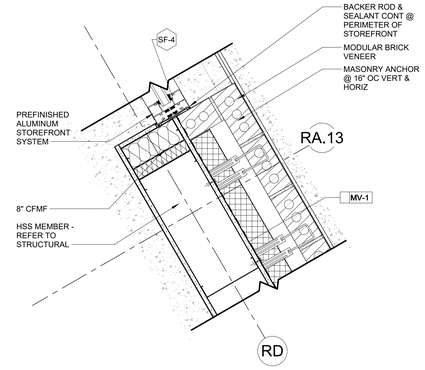
DRAWING NAME

ENLARGED PLAN DETAILS

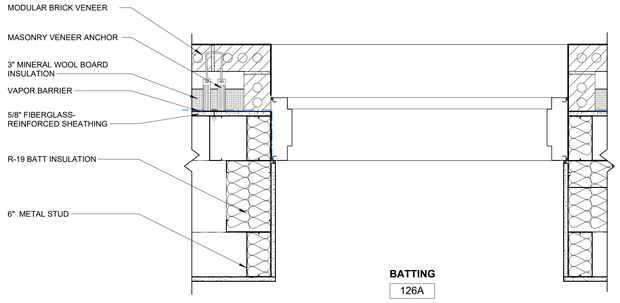
FLOOR/SECTION	PHASE	DRAWING NO.
	BID	A3.9.4



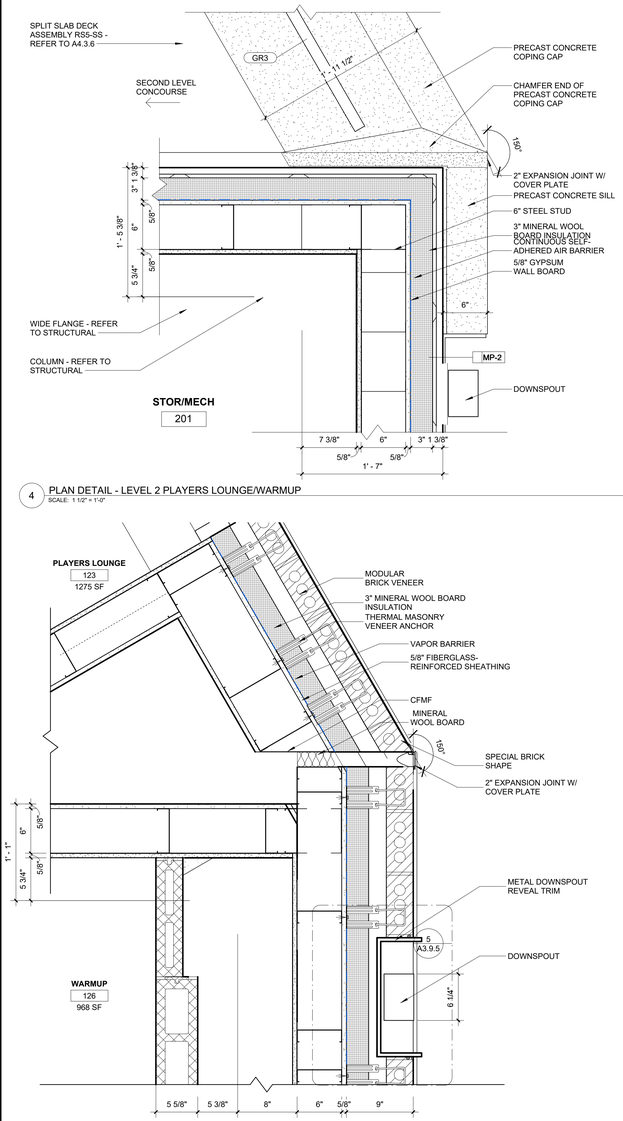
8 PLAN DETAIL - VESTIBULE/PLAYER'S LOUNGE
SCALE: 1 1/2" = 1'-0"



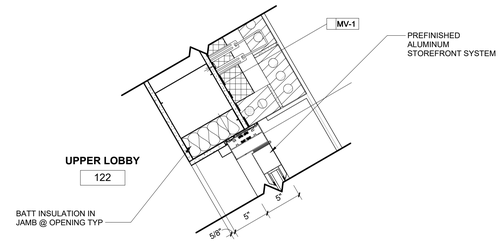
9 PLAN DETAIL - STOREFRONT JAMB
SCALE: 1 1/2" = 1'-0"



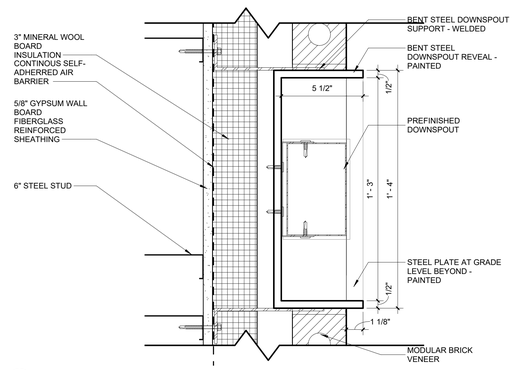
10 PLAN DETAIL - WARMUP ENTRY
SCALE: 1 1/2" = 1'-0"



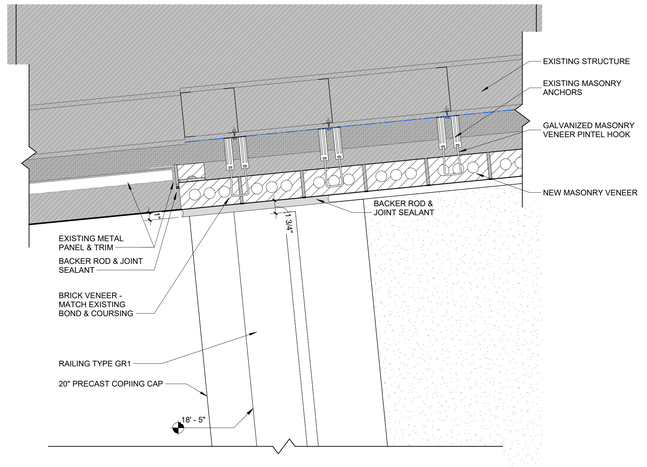
4 PLAN DETAIL - LEVEL 2 PLAYERS LOUNGE/WARMUP
SCALE: 1 1/2" = 1'-0"



7 PLAN DETAIL - UPPER LOBBY FIELD ACCESS
SCALE: 1 1/2" = 1'-0"

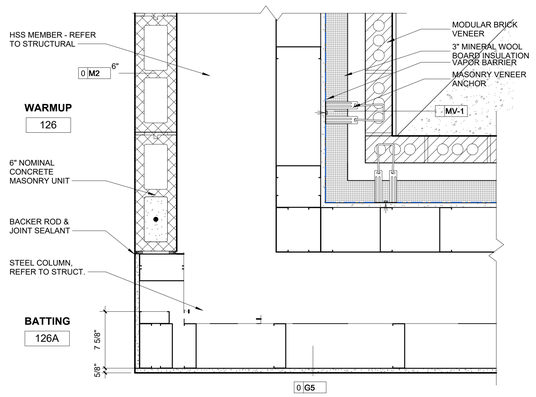


5 ENLARGED PLAN DETAIL - TYPICAL DOWNSPOUT
SCALE: 3" = 1'-0"

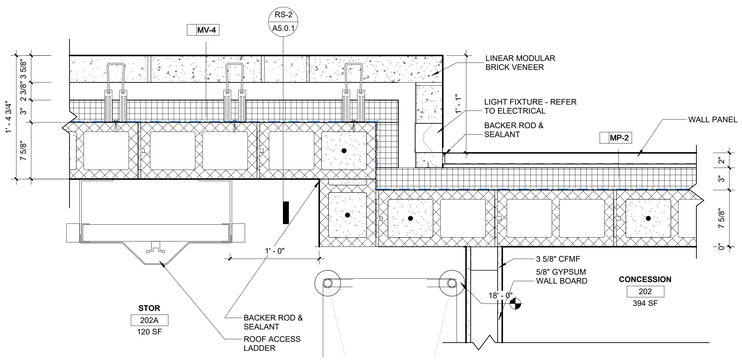


6 PLAN DETAIL - LEVEL 2 STAIR TOWER/CONCOURSE
SCALE: 1 1/2" = 1'-0"

1 PLAN DETAIL - LEVEL 1 PLAYERS LOUNGE/WARMUP
SCALE: 1 1/2" = 1'-0"



2 PLAN DETAIL - BATTING/WARMUP WALL
SCALE: 1 1/2" = 1'-0"



3 PLAN DETAIL - LEVEL 2 CONCESSIONS NORTH WALL
SCALE: 1 1/2" = 1'-0"

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CONSULTANTS

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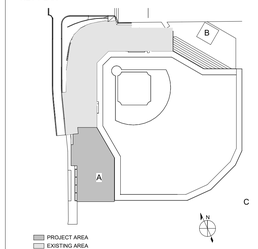
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. PROFESSIONAL ENGINEER 52711 REGISTERED RALEIGH, NC
JASON C. KOLANKO REGISTERED LANDSCAPE ARCHITECT 11036 NORTH CAROLINA CHARLOTTE, NC
7/3/2024

REVISIONS

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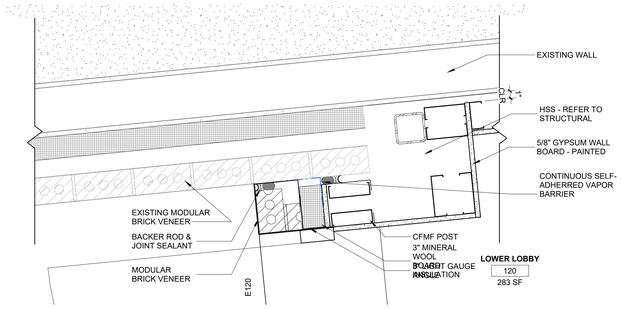
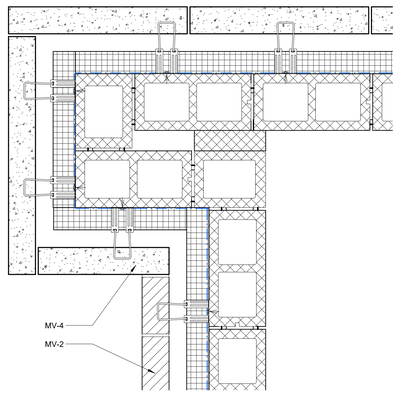
PROJECT NO.	20220400	SCALE	As indicated

DRAWING NAME
ENLARGED PLAN DETAILS

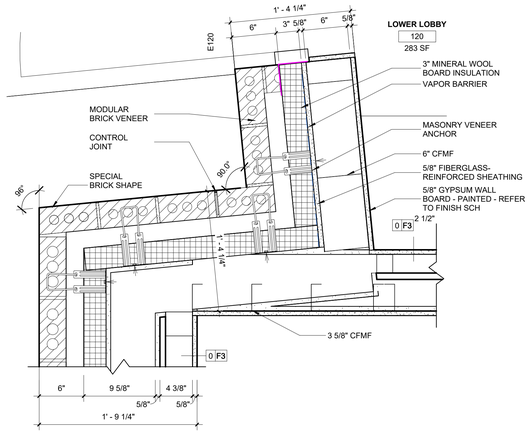
FLOOR/SECTION PHASE: BID
DRAWING NO.: A3.9.5



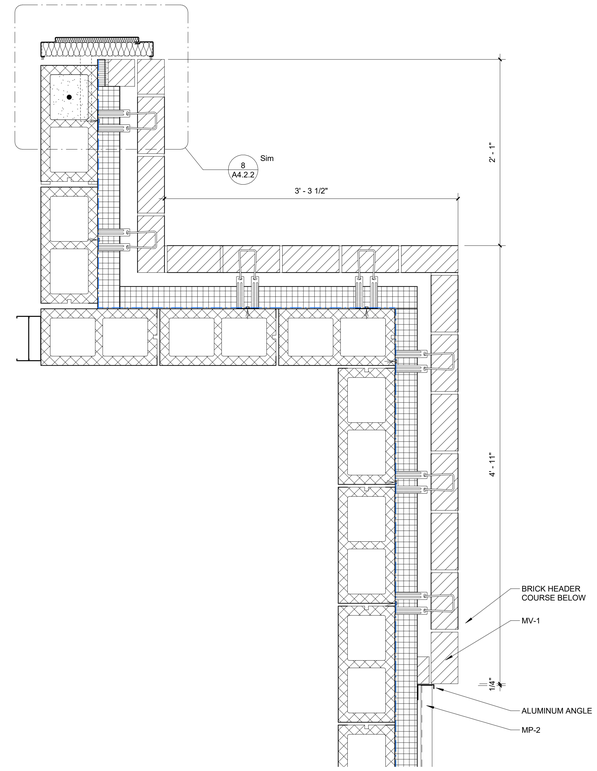
3 PLAN DETAIL - LEVEL 1 LOWER LOBBY ENTRY/EXISTING
SCALE: 1 1/2" = 1'-0"



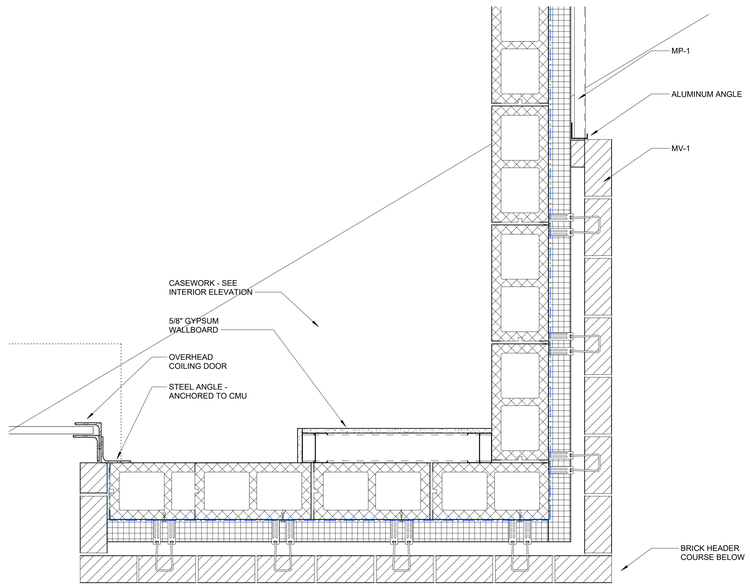
2 PLAN DETAIL - BRICK TO FEATURE MASONRY
SCALE: 1 1/2" = 1'-0"



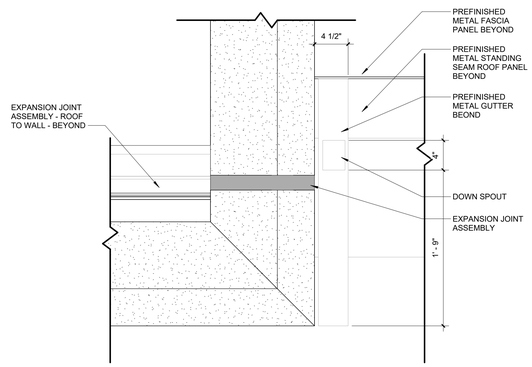
5 PLAN DETAIL - LEVEL 1 LOWER LOBBY ENTRY/FURRING
SCALE: 1 1/2" = 1'-0"



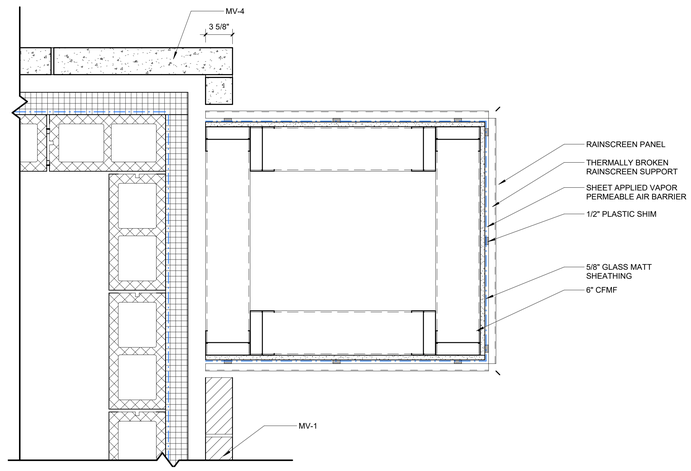
7 PLAN DETAIL - LEFT FIELD CONCESSIONS
SCALE: 1 1/2" = 1'-0"



1 PLAN DETAIL - BRICK CORNER TO COILING DOOR
SCALE: 1 1/2" = 1'-0"



4 L3 - ROOF PLAN / MECH PENTHOUSE / RIGHT FIELD - Callout 2
SCALE: 1 1/2" = 1'-0"



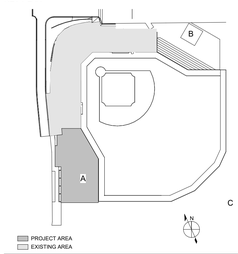
6 PLAN DETAIL - STUDENT ENTRY
SCALE: 1 1/2" = 1'-0"

EWING COLE
8208 Brownleigh Drive, Suite 200
Raleigh, NC 27617
Tel: 919-460-6700 Fax: 919-460-6733

CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. 52711 REGISTERED ARCHITECT RALEIGH, NC
JASON C. KOLAND 11036 REGISTERED ARCHITECT NORTH CAROLINA CHARLOTTE, NC
9/3/2024

REVISIONS

NO.	BY	DESCRIPTION	DATE
	EC	ISSUE FOR BID	09/03/2024

NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT

1081 Varsity Dr
Raleigh, NC 27606

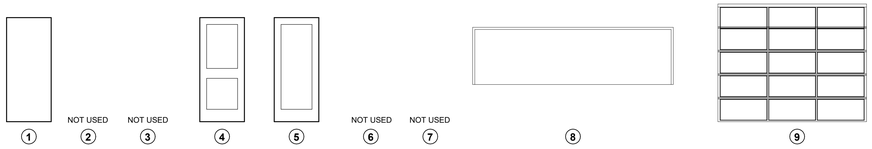
DRAWN BY	CB, GW	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	1 1/2" = 1'-0"

DRAWING NAME

ENLARGED PLAN DETAILS

FLOOR/SECTION PHASE	DRAWING NO.
BID	A3.9.6

NUMBER	DOOR SIZE				DOOR						FRAME			FIRE RATING	HW	REMARKS
	OPENING	LEAF A	LEAF B	HEIGHT	TYPE	MATL	FACE	GLAZ	ATTRIBUTE	SPEC SECTION	TYPE	MATL	GLAZ			
120A	3' - 0"	3' - 0"		7' - 10"	05	AL		TG		081216	--	--	--	0	01	INSULATED
121	3' - 0"	3' - 0"		7' - 10"	01	HM				081113	EG	HM	--	0	06	--
123	4' - 0"	3' - 4 3/4"		7' - 10"	04	AL				081119	AL				14	
124	3' - 0"	3' - 0"		7' - 10"	01	HM				081113	EG	HM	--	0	15	--
124A	3' - 0"	3' - 0"		7' - 10"	01	HM				081113	EG	HM	--	0	02	--
124B	3' - 0"	3' - 0"		7' - 10"	01	HM				081113	EG	HM	--	0	15	--
125A	3' - 0"	3' - 0"		7' - 10"	01	HM				081113	--	HM	--	0	05	--
126A	3' - 0"	3' - 0"		7' - 10"	05	AL		TG		081216	AL1	AL	--	0	16	--
127	6' - 0"	3' - 0"	3' - 0"	7' - 0"	01	WD				081416	EG	HM	--	0	09	--
127A	3' - 0"	3' - 0"		7' - 10"	01	HM				081113	EG	HM	--	0	17	--
127B	3' - 0"	3' - 0"		7' - 10"	01	HM				081113	EG	HM	--	0	04	--
202A	3' - 0"			7' - 0"	01	STL			CASED OPNG	081113	C	HM	--	0	07	--
E120	6' - 0"	3' - 0"	3' - 0"	7' - 10 1/4"	04	AL				084126					01	REFER TO GLAZING SF-2
E122	3' - 0"	3' - 0"		7' - 10"	04	AL				081119						REFER TO GLAZING SF-4
E126B	3' - 0"	3' - 0"		7' - 0"	01	HM				081113	EG	HM	--	0	11	--
E126C	3' - 0"	3' - 0"		7' - 10"	01	HM				081113	EG	HM	--	0	13	--
E130	3' - 0"	3' - 0"		7' - 10"	01	HM				081113	EG	HM	--	0	10	--
E201	5' - 6"	3' - 6"	2' - 0"	7' - 0"	02/01	SST		TG		081119	EG	--	--	0	08	--
E202	3' - 0"	3' - 0"		7' - 10"	01	HM				081113	EM	HM	--	0	12	--
E203	3' - 0"	3' - 0"		7' - 10"	01	HM				081113	EM	HM	--	0	03	--
E204	3' - 0"	3' - 0"		7' - 10"	01	HM				081113	EM	HM	--	0	03	--
G126-01	12' - 0"	12' - 0"		9' - 4"	09	AL				081119	PDT	AL			18	
G126-02	12' - 0"	12' - 0"		9' - 4"	09	AL				081119	PDT	AL			18	
G126-03	12' - 0"	12' - 0"		9' - 4"	09	AL				081119	PDT	AL			18	
G126-04	12' - 0"	12' - 0"		9' - 4"	09	AL				081119	PDT	AL			18	



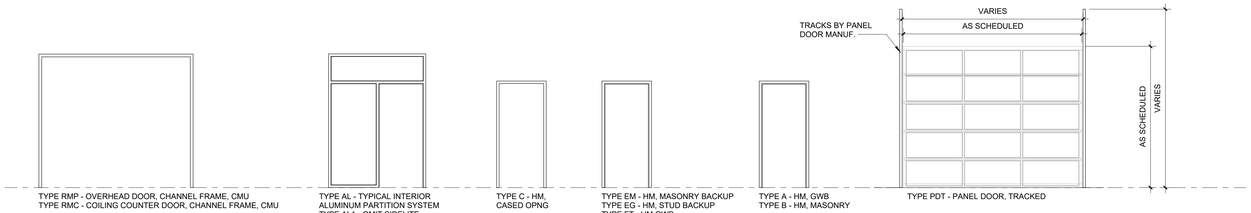
DOOR TYPES- ALL GLAZING TEMPERED UNO

DOOR MATERIAL
WD (WOOD); HM (HOLLOW METAL); AL(ALUMINUM); SST (STAINLESS STEEL); MET (METAL); WR (WIRE CAGE); GL (GLASS); AC (ACROVYN)

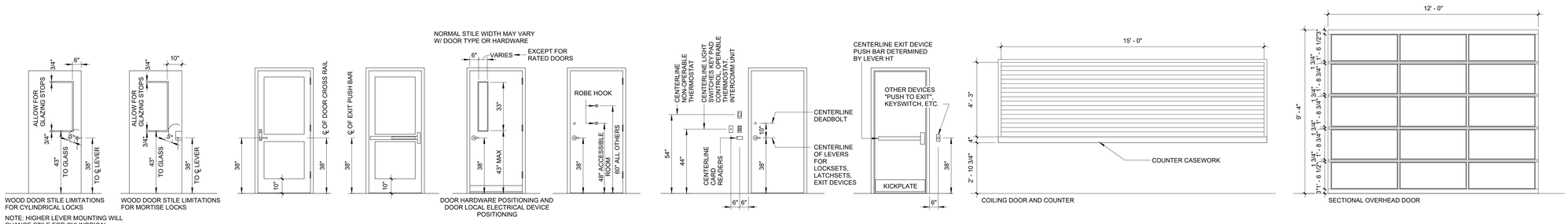
ATTRIBUTE
LL (LEAD LINED); PNL (PANELED); PTCH (PATCH FITTINGS); T&B (TOP & BOTTOM RAILS); DTC (DUTCH); FLDG (FOLD); PKT (POCKET); BARN (BARN); REV (REVOLVING); ICU (INTENSIVE CARE UNIT)

FACE
PTD (PAINTED); PF (PRE-FINISHED); PLAM(PLASTIC LAMINATE); CUSTOM

1 DOOR TYPES



2 FRAME TYPES



3 DOOR HARDWARE POSITIONING

EWING COLE

8208 Brownleigh Drive, Suite 200
Raleigh, NC 27617
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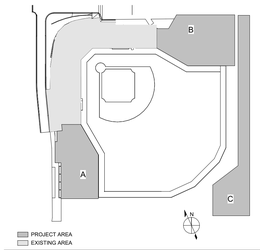
CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
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GEORGE BUSHEY

EWINGCOLE, INC. REGISTERED ARCHITECTURAL CORPORATION 52711 MCCULLOUGH, WILLIAM RALEIGH, NC

JASON C. KOLANKO REGISTERED LANDSCAPE ARCHITECT 11036 NORTH CAROLINA CHARLOTTE, NC

9/3/2024

REVISIONS

NO.	BY	DESCRIPTION	DATE
	EC	ISSUE FOR BID	09/03/2024

NC STATE UNIVERSITY

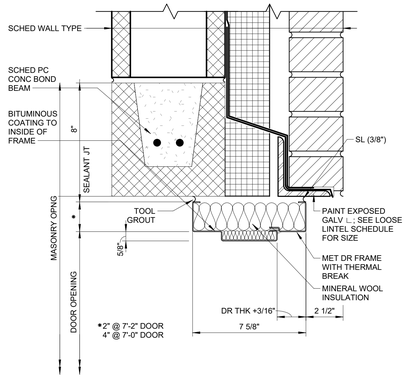
DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY GW, CB
DATE 09/03/2024
PROJECT NO. 20220400
SCALE As indicated
DRAWING NAME

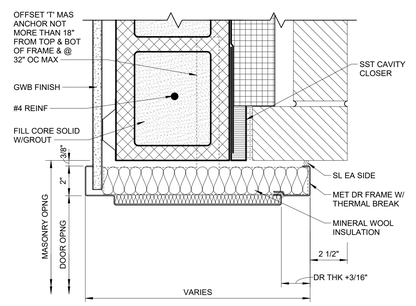
DOOR AND FRAME SCHEDULES & DETAILS

FLOOR/SECTION PHASE
BID

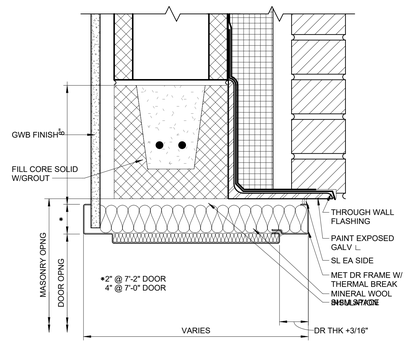
DRAWING NO.
A4.2.1



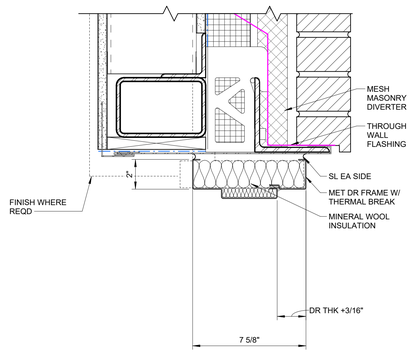
12 HM FRAME IN EXTERIOR MASONRY CAVITY WALL - HEAD
SCALE: 3" = 1'-0"



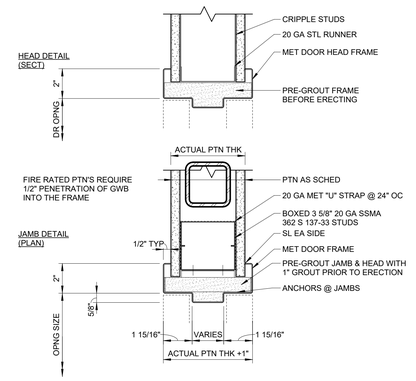
8 HM FRAME IN EXTERIOR MASONRY CAVITY WALL WITH GWB FINISH - JAMB
SCALE: 3" = 1'-0"



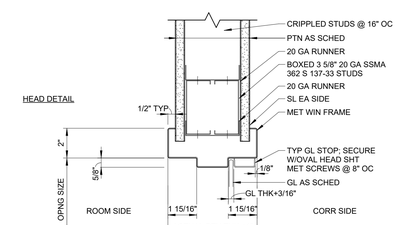
4 HM FRAME IN EXTERIOR MASONRY CAVITY WALL WITH GWB FINISH - HEAD
SCALE: 3" = 1'-0"



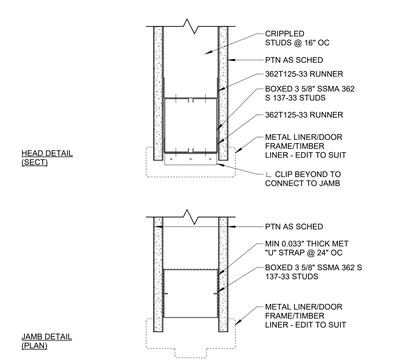
10 HM FRAME IN EXTERIOR MASONRY CAVITY WALL - JAMB
SCALE: 3" = 1'-0"



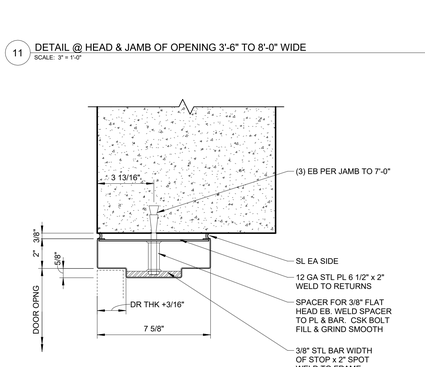
7 HM DOOR FRAME IN GWB PARTITION
SCALE: 3" = 1'-0"



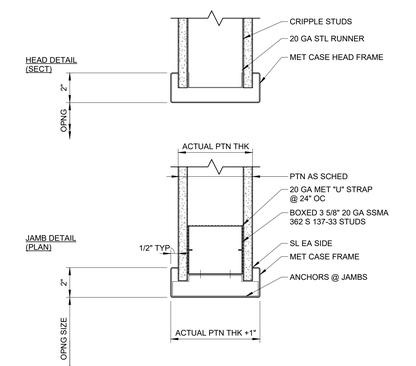
3 GLAZED OPENING HEAD
SCALE: 3" = 1'-0"



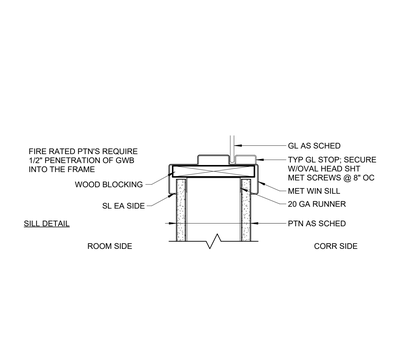
13 HOLLOW METAL CASED FRAME
SCALE: 3" = 1'-0"



11 DETAIL @ HEAD & JAMB OF OPENING 3'-6" TO 8'-0" WIDE
SCALE: 3" = 1'-0"



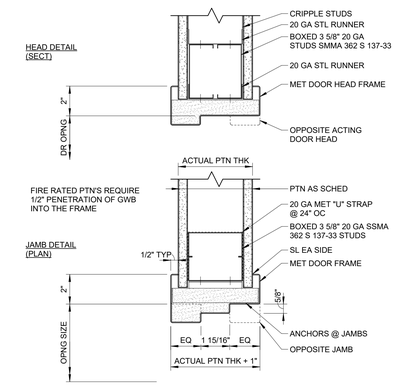
6 HOLLOW METAL CASED FRAME
SCALE: 3" = 1'-0"



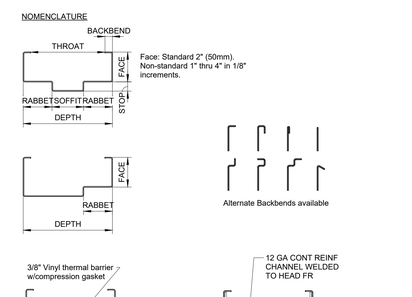
2 GLAZED OPENING SILL
SCALE: 3" = 1'-0"

14 HM DOOR FRAME IN GWB PARTITION
SCALE: 3" = 1'-0"

9 HM FRAME IN CONCRETE WALL OR EXIST MASONRY
SCALE: 3" = 1'-0"



5 HM DOUBLE EGRESS DOOR JAMB & HEAD (UP TO 8'-0" WIDE)
SCALE: 3" = 1'-0"



1 GENERAL NOTES
SCALE: 3" = 1'-0"

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CONSULTANTS

SCO PROJECT NO. 22-24384-01A
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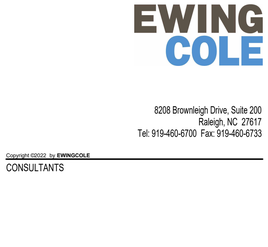
KEY PLAN



PRINCIPAL
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PROJECT MANAGER
GEORGE BUSHEY

EWING COLE, INC. REGISTERED 52711 NORTH CAROLINA RALEIGH, NC

JASON C. KOLLO REGISTERED 11036 NORTH CAROLINA CHARLOTTE, NC

9/3/2024

REVISIONS

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NC STATE UNIVERSITY

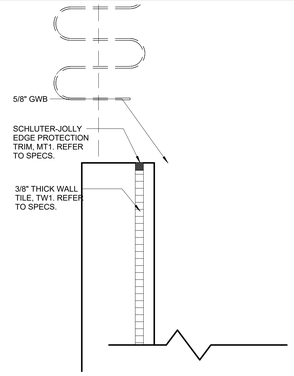
DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	GW, CB	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	3" = 1'-0"

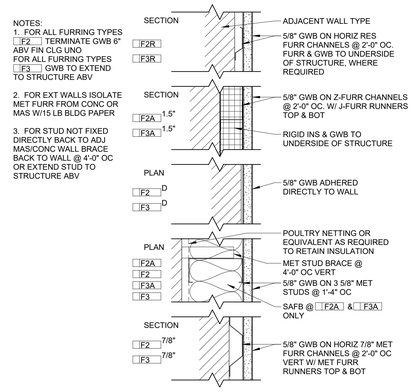
DRAWING NAME

INTERIOR PARTITION TYPES - HOLLOW METAL

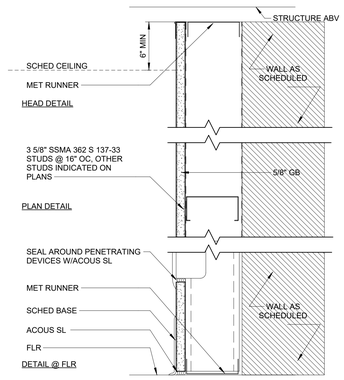
FLOOR/SECTION	PHASE	DRAWING NO.
	BID	A4.2.2



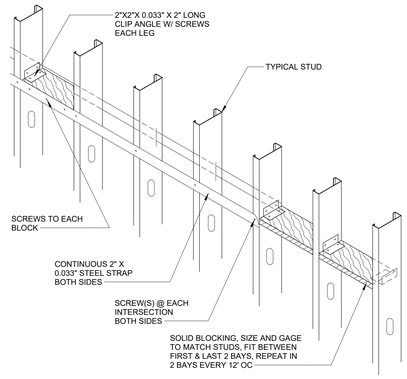
9 TRIM @ TILED WALL PARTITION
SCALE: 3" = 1'-0"



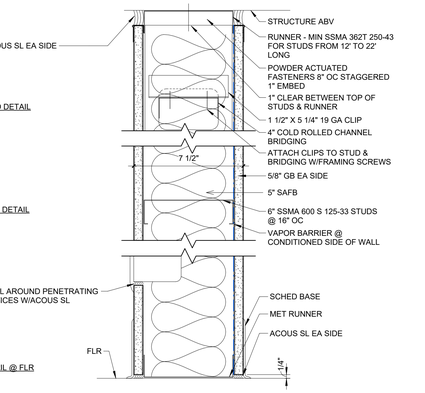
8 FURRING PARTITION TYPES F
SCALE: 3" = 1'-0"



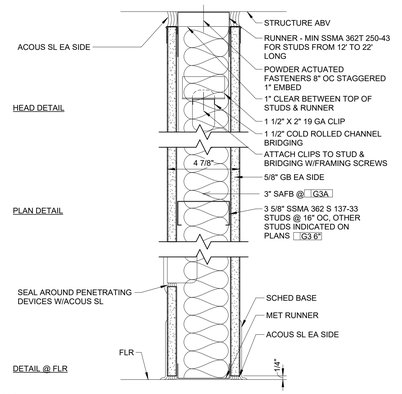
7 PARTITION TYPE F3 - NON-RATED
SCALE: 3" = 1'-0"



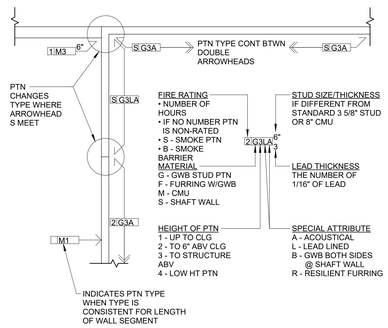
6 ALTERNATE BRIDGING DETAIL
SCALE: 3" = 1'-0"



5 PARTITION TYPE G5 - NON-RATED
SCALE: 3" = 1'-0"



4 PARTITION TYPE 0G3 - NON-RATED
SCALE: 3" = 1'-0"



2 PARTITION KEY
SCALE: 3" = 1'-0"

1. SEE FIN SCHED FOR APPLIED FIN SUCH AS CT, VINYL FABRIC, PANELING, ETC.
2. STANDARD CMU SHALL BE 8" (NOM) THK UNO. NON-STANDARD CMU THK ARE INDICATED AS FOLLOWS: 2 M3 6"
3. WHERE MFR'S HGT LIMITATIONS ARE EXCEEDED DUE TO FIELD CONDITIONS, USE HEAVIER GAUGE STUDS IN ACCORDANCE W/ MFR'S RECOMMENDATIONS.
4. FIRE RATED PTN'S ARE IDENTIFIED BY KEY & POCHE AS FOLLOWS:

NEW PARTITONS		EXISTING PARTITONS	
	NONRATED		NONRATED
	1 HR FIRE RATED	EXISTING PARTITONS WHEN RATING IS REQUIRED	
	2 HR FIRE RATED		1 HR FIRE RATED
			2 HR FIRE RATED
	SMOKE PTN		SMOKE PTN
	1 HR SMOKE BARRIER		1 HR SMOKE BARRIER
	2 HR SMOKE BARRIER		2 HR SMOKE BARRIER

1 PARTITIONS - GENERAL NOTES
SCALE: 3" = 1'-0"

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CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN

PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. ARCHITECTURE INTERIORS PLANNING 52711 RALEIGH, NC
JASON C. KOLLMAN REGISTERED ARCHITECT 11036 NORTH CAROLINA CHARLOTTE, NC
9/3/2024

REVISIONS

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NC STATE UNIVERSITY

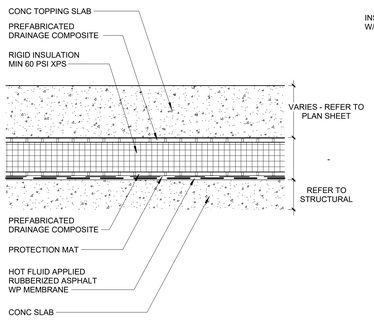
DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	GW, CB	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	3" = 1'-0"

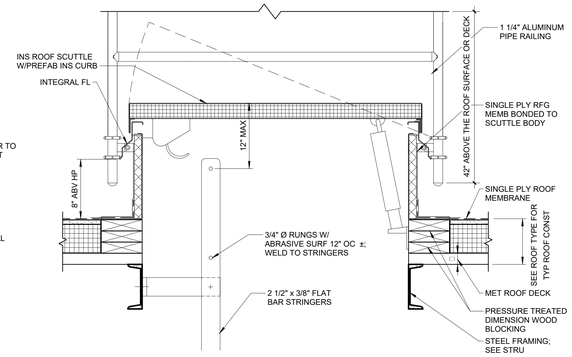
DRAWING NAME

INTERIOR PARTITION TYPES - GYPSUM BOARD

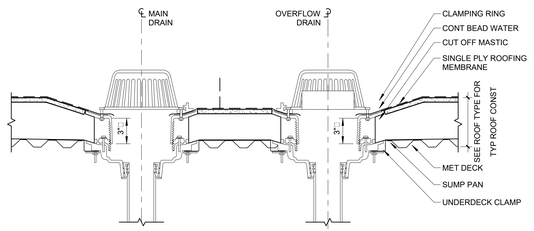
FLOOR/SECTION	PHASE	DRAWING NO.
	BID	A4.2.3



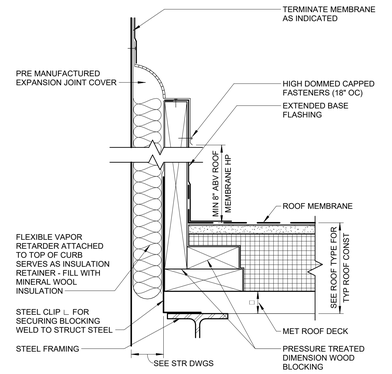
8 RS5-SS - TYPICAL SPLIT SLAB
SCALE: 3" = 1'-0"



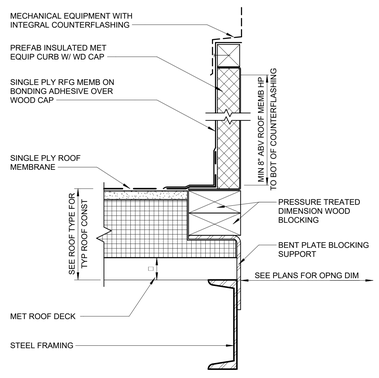
7 ROOF HATCH @ METAL DECK
SCALE: 1 1/2" = 1'-0"



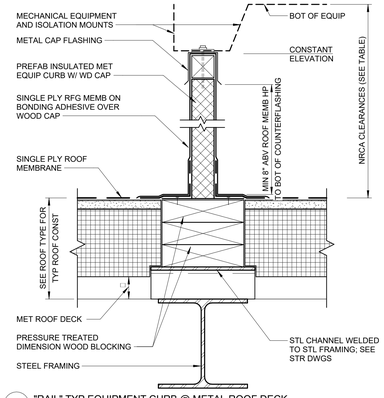
6 TYP DOUBLE ROOF DRAIN @ METAL DECK
SCALE: 1 1/2" = 1'-0"



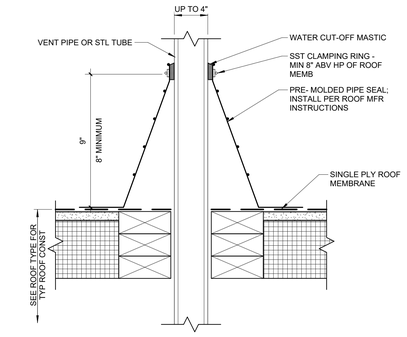
5 ROOF TO WALL EXPANSION JOINT @ METAL DECK
SCALE: 3" = 1'-0"



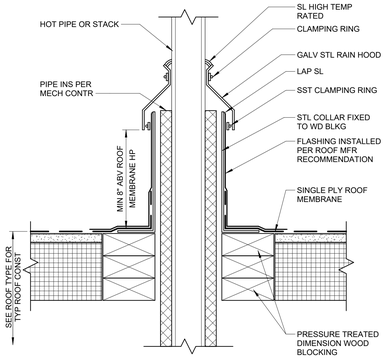
4 ROOF TOP EQUIPMENT CURB @ METAL DECK
SCALE: 3" = 1'-0"



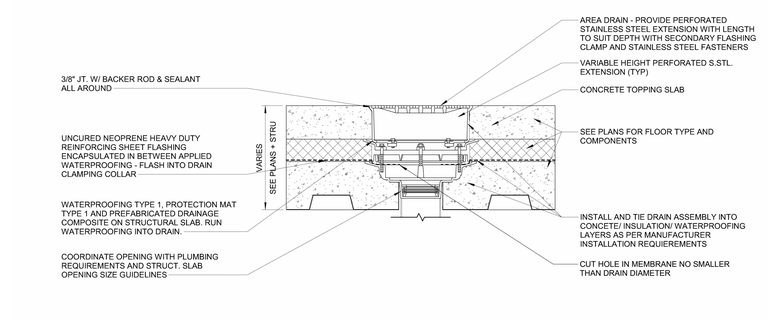
3 "RAIL" TYP EQUIPMENT CURB @ METAL ROOF DECK
SCALE: 3" = 1'-0"



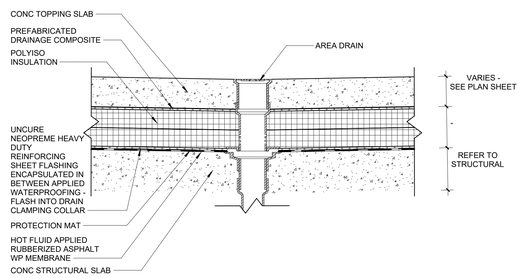
2 PRE-MOLDED VENT PIPE FLASHING @ COLD PIPE (4" MAX)
SCALE: 3" = 1'-0"



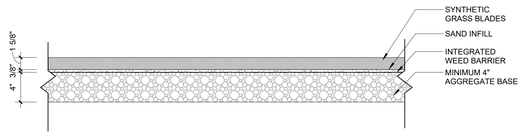
1 FIELD FABRICATED ROOF PENETRATION FLASHING @ HOT PIPE
SCALE: 3" = 1'-0"



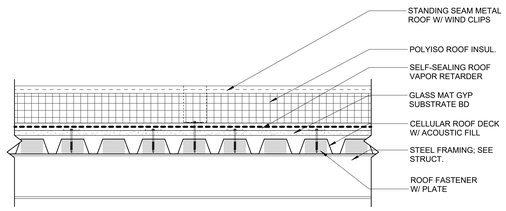
11 SPLIT SLAB AREA DRAIN
SCALE: 1/2" = 1'-0"



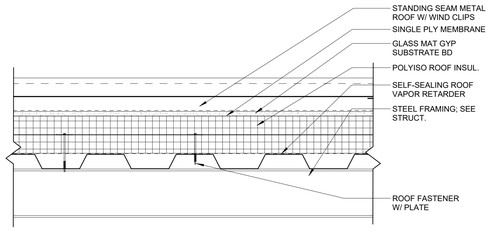
10 SPLIT SLAB DRAIN
SCALE: 1 1/2" = 1'-0"



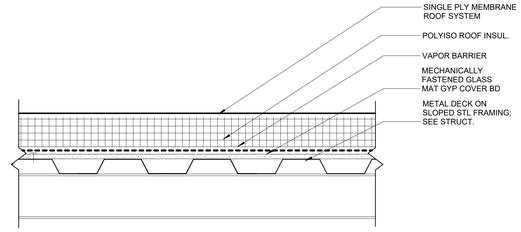
9 TA-1 TURF ASSEMBLY
SCALE: 1 1/2" = 1'-0"



R1 STANDING SEAM ROOF
SCALE: 1 1/2" = 1'-0"



R2 STANDING SEAM ROOF WITH EPDM
SCALE: 1 1/2" = 1'-0"



R3 MEMBRANE ROOF
SCALE: 1 1/2" = 1'-0"

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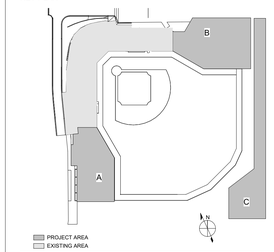
CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



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EWINGCOLE, INC. ENGINEERING DPC 52711 KATHORINE E. NOLAN NOTARY PUBLIC RALEIGH, NC

JASON C. KOLANO REGISTERED LANDSCAPE ARCHITECT 11036 NORTH CAROLINA CHARLOTTE, NC

9/3/2024

REVISIONS

NO.	BY	DESCRIPTION	DATE
	EC	ISSUE FOR BID	09/03/2024

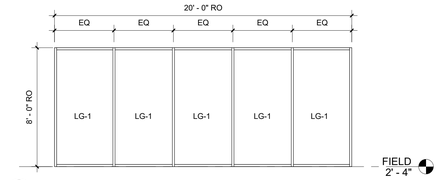
NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

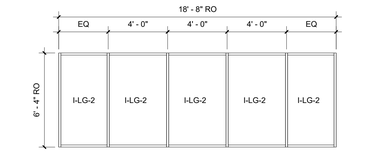
DRAWN BY	CB, GW	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	As indicated

DRAWING NAME
HORIZONTAL TYPES & DETAILS

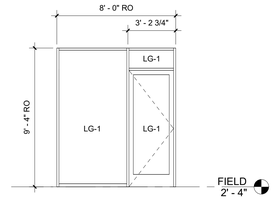
FLOOR/SECTION PHASE: BID
DRAWING NO.: A4.3.6



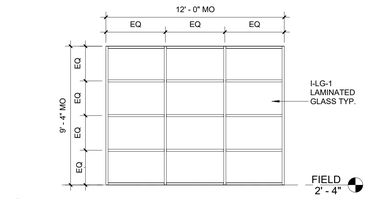
8 SF-8
SCALE: 1/4" = 1'-0"



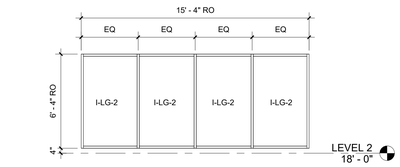
5 SF-6
SCALE: 1/4" = 1'-0"



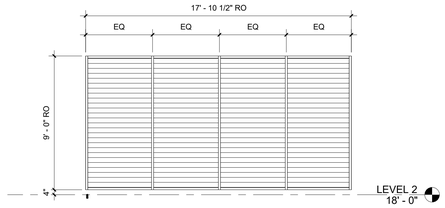
14 SF-4
SCALE: 1/4" = 1'-0"



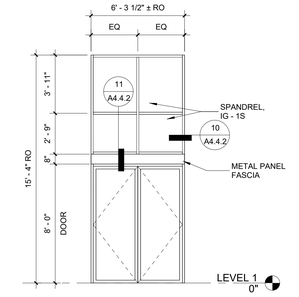
2 SF-7
SCALE: 1/4" = 1'-0"



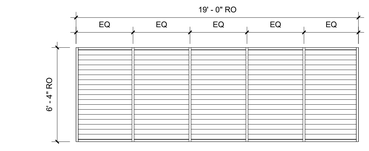
4 SF-3
SCALE: 1/4" = 1'-0"



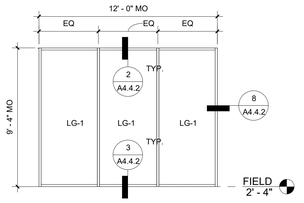
7 LV-2
SCALE: 1/4" = 1'-0"



3 SF-2
SCALE: 1/4" = 1'-0"



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



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

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

LOUVER SCHEDULE				
TYPE	TYPE MARK	HEIGHT	WIDTH	MATERIAL
LOUVER	LV3	1' - 4"	1' - 0"	Aluminum
LOUVER	LV3	1' - 4"	1' - 0"	Aluminum
LOUVER	LV3	1' - 4"	1' - 0"	Aluminum

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CONSULTANTS

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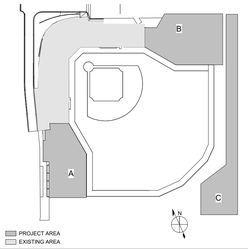
NC STATE PROJ. NO. 202120015

KEY PLAN



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JASON C. ROLAND 11036 REGISTERED LANDSCAPE ARCHITECT NORTH CAROLINA CHARLOTTE, NC
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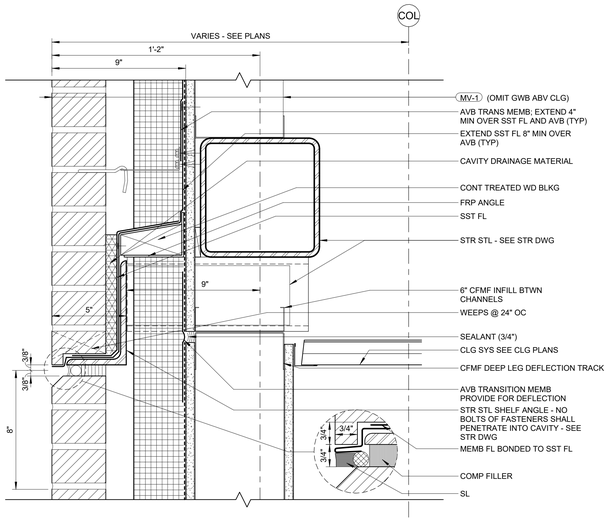
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	CB, GW	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	1/4" = 1'-0"

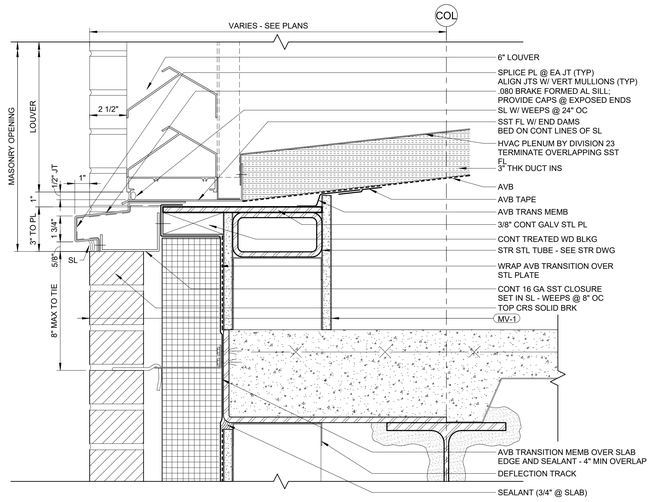
DRAWING NAME

GLAZING & LOUVER ELEVATIONS

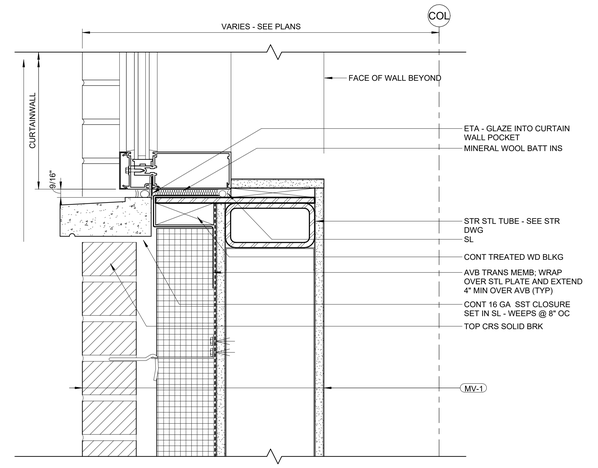
FLOOR/SECTION PHASE	DRAWING NO.
BID	A4.4.1



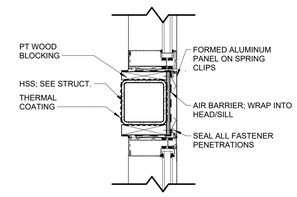
7 MASONRY INFILL WALL AT SPANDREL - BRICK BAND
SCALE: 3" = 1'-0"



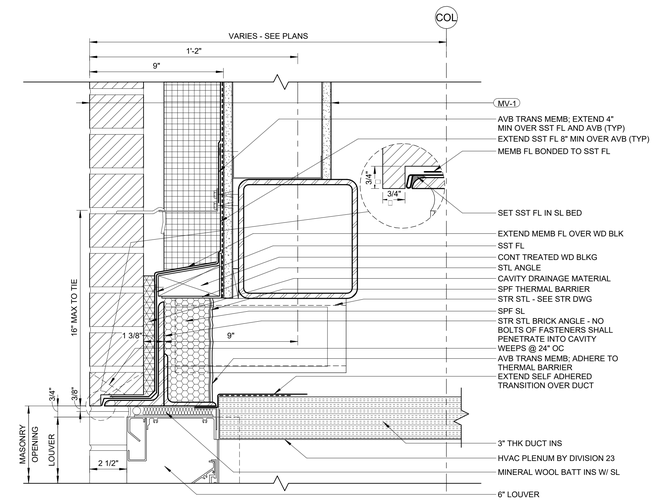
6 LOUVER SILL @ MV-1
SCALE: 3" = 1'-0"



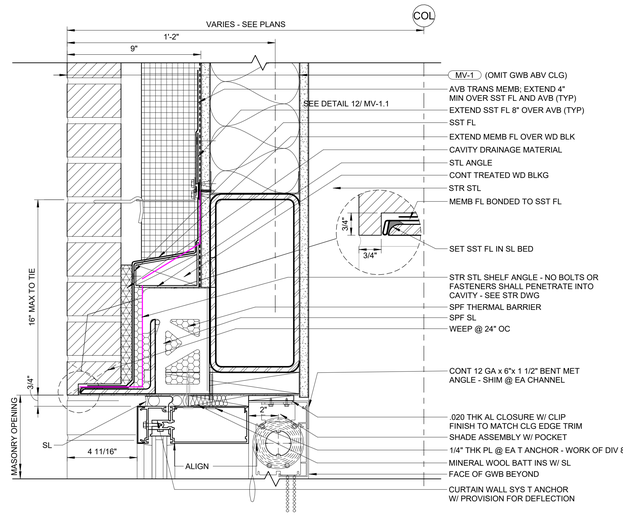
3 CURTAINWALL SILL @ MV-1
SCALE: 3" = 1'-0"



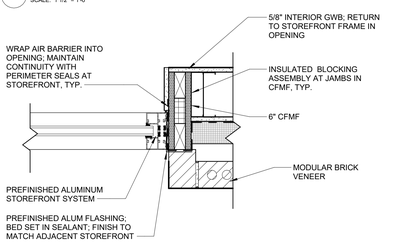
11 SECTION DETAIL - SF-2 HEAD
SCALE: 1 1/2" = 1'-0"



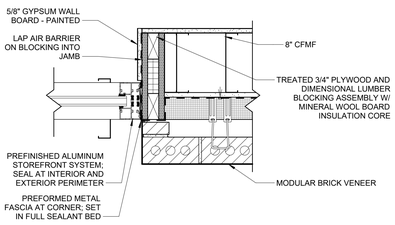
5 LOUVER HEAD @ MV-1
SCALE: 3" = 1'-0"



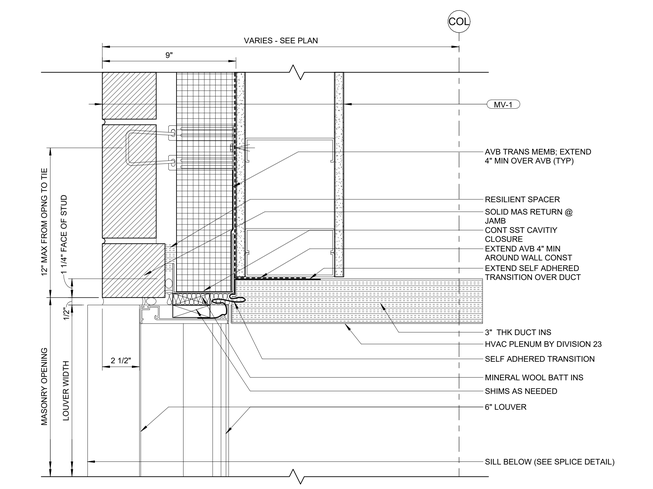
2 CURTAINWALL HEAD @ MV-1
SCALE: 3" = 1'-0"



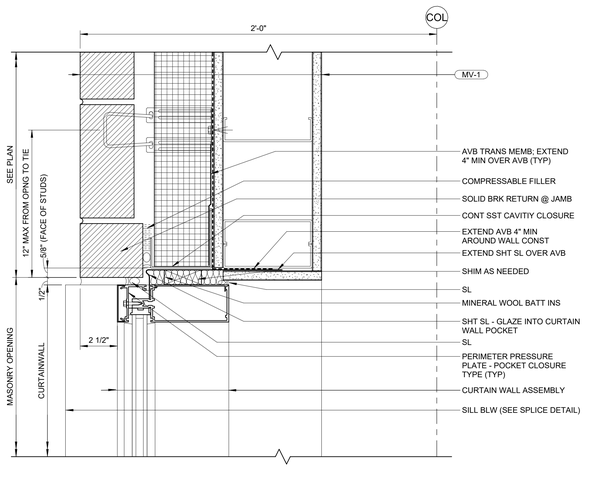
10 SECTION DETAIL - SF-2 JAMB EAST
SCALE: 1 1/2" = 1'-0"



8 TYPICAL STOREFRONT JAMB @ MASONRY
SCALE: 1 1/2" = 1'-0"



4 LOUVER JAMB @ MV-1
SCALE: 3" = 1'-0"



1 CURTAINWALL JAMB @ MV-1
SCALE: 3" = 1'-0"

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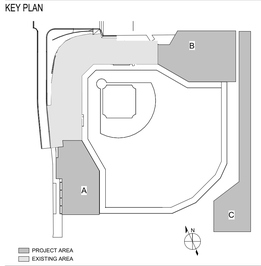
KEY PLAN



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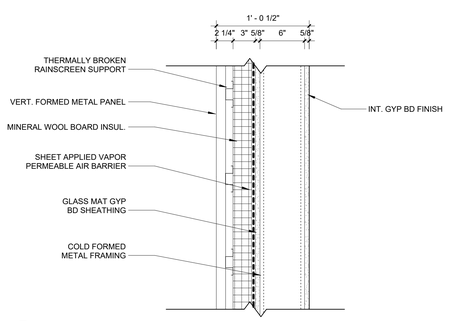
PROJECT NO.	20220400	SCALE	As indicated

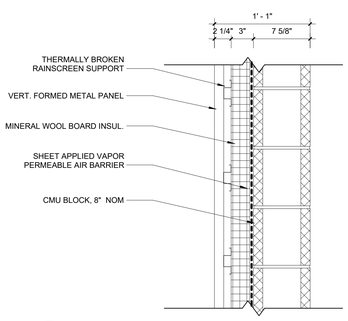
DRAWING NAME

GLAZING & LOUVER DETAILS

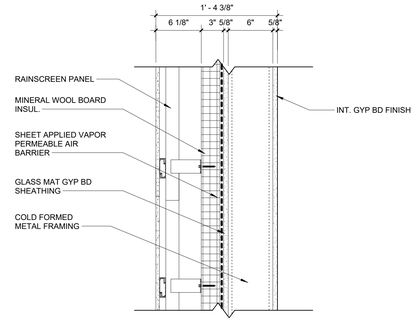
FLOOR/SECTION	PHASE	DRAWING NO.
	BID	A4.4.2



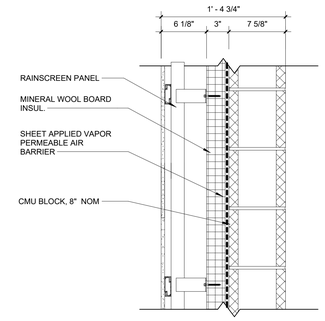
MP-1 METAL PANEL ON CFMF BACKUP
SCALE: 1 1/2" = 1'-0"



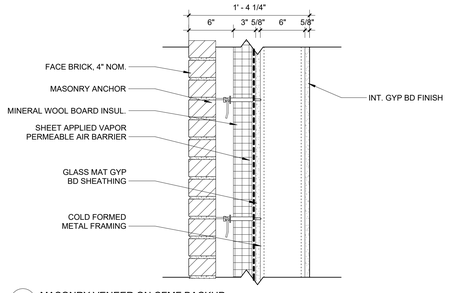
MP-2 METAL PANEL ON CMU BACKUP
SCALE: 1 1/2" = 1'-0"



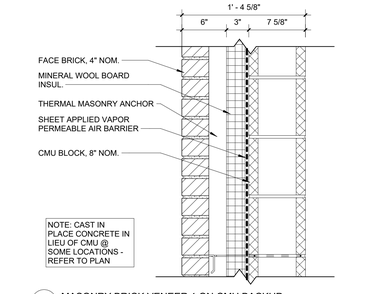
RS-1 RAINSCREEN ON CFMF BACKUP
SCALE: 1 1/2" = 1'-0"



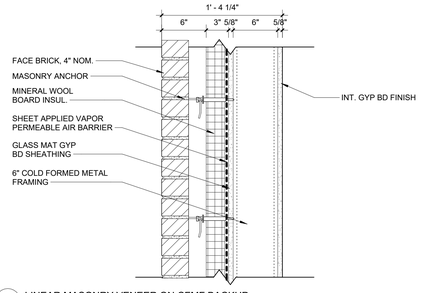
RS-2 RAINSCREEN ON CMU BACKUP
SCALE: 1 1/2" = 1'-0"



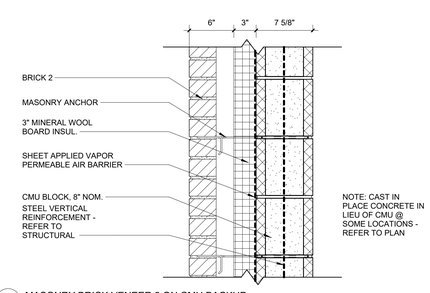
MV-1 MASONRY VENEER ON CFMF BACKUP
SCALE: 1 1/2" = 1'-0"



MV-2 MASONRY BRICK VENEER 1 ON CMU BACKUP
SCALE: 1 1/2" = 1'-0"

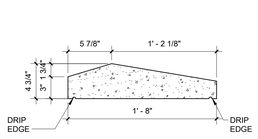


MV-3 LINEAR MASONRY VENEER ON CFMF BACKUP
SCALE: 1 1/2" = 1'-0"

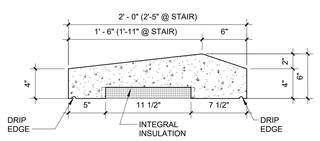


MV-4 MASONRY BRICK VENEER 2 ON CMU BACKUP
SCALE: 1 1/2" = 1'-0"

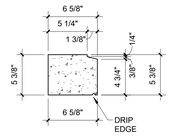
PRECAST SHAPES LEGEND



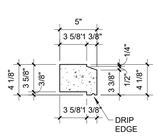
P-1 - PRECAST MASONRY WALL COPING



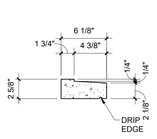
P-2 - PRECAST MASONRY WALL COPING



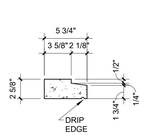
P-3 - PRECAST MASONRY SILL



P-4 - PRECAST MASONRY SILL



P-5 - PRECAST MASONRY SILL



P-6 - PRECAST MASONRY SILL

EWING COLE
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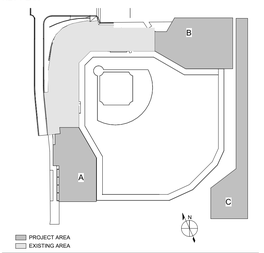
Raleigh, NC 27617
Tel: 919-460-6700 Fax: 919-460-6733

CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. ENGINEERING 52711 REGISTERED ENGINEER RALEIGH, NC
JASON C. KOLLMORGEN REGISTERED LANDSCAPE ARCHITECT 11036 NORTH CAROLINA CHARLOTTE, NC
9/3/2024

REVISIONS

NO.	BY	DESCRIPTION	DATE
	EC	ISSUE FOR BID	09/03/2024

NC STATE UNIVERSITY

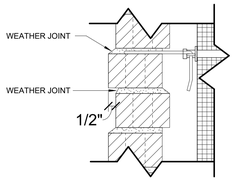
DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	AC, CB, GW	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	1 1/2" = 1'-0"

DRAWING NAME

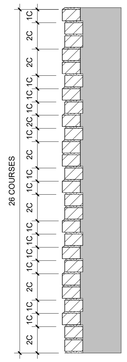
EXTERIOR SYSTEM TYPES

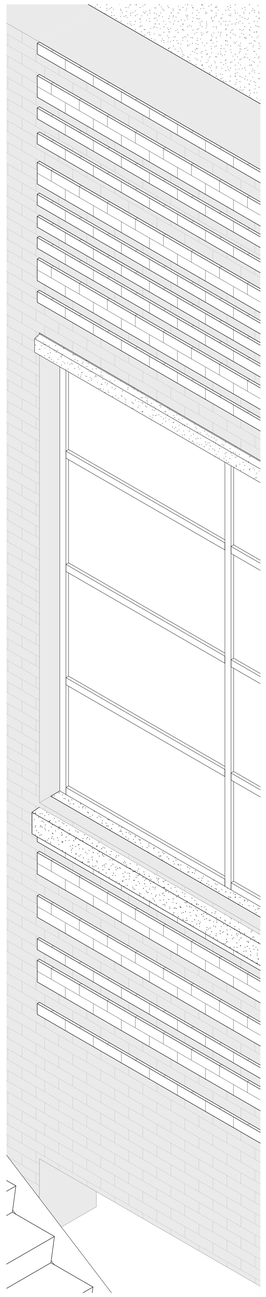
FLOOR/SECTION	PHASE	DRAWING NO.
	BID	A5.0.1



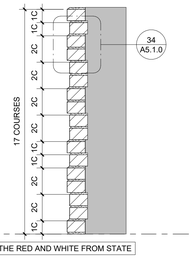
34 BRICK CORBEL PATTERN 3 - Callout 1
SCALE: 3" = 1'-0"

BP-1.1.2



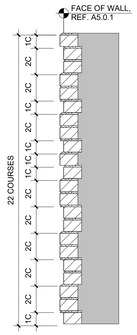


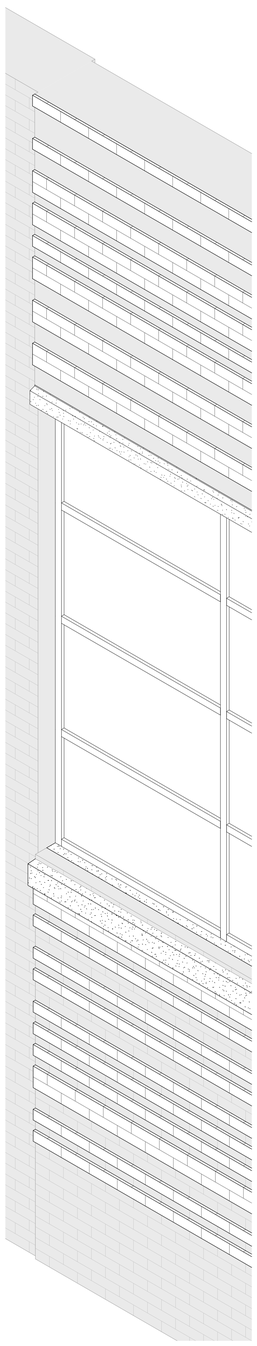
BP-1.1.1



1 BP-1.1.1
SCALE: 1" = 1'-0"

BP-1.1.4





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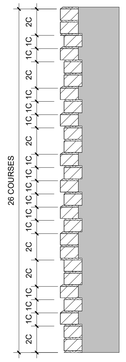
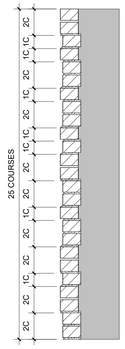
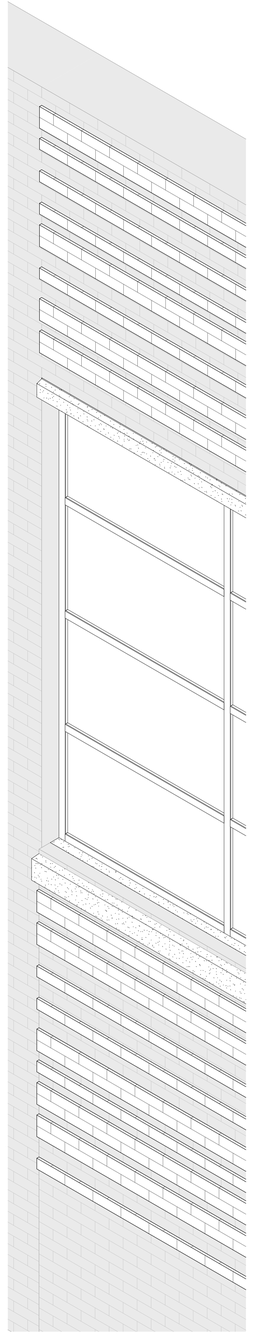


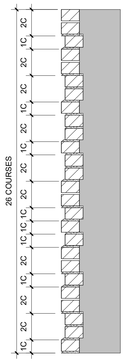
2 BP-1.1.3
SCALE: 1" = 1'-0"

BP-1.2.2





BP-1.2.1



3 3D BRICK DETAIL AXON 3
SCALE:

EWING COLE
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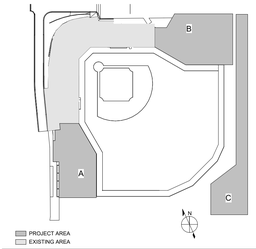
CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWING COLE, INC. REGISTERED PROFESSIONAL ENGINEER MECHANICAL 052711 RALEIGH, NC
JASON C. ROLLINS REGISTERED PROFESSIONAL ENGINEER 11036 NORTH CAROLINA CHARLOTTE, NC
9/5/2024

REVISIONS

NO.	BY	DESCRIPTION	DATE
	EC	ISSUE FOR BID	09/03/2024

NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

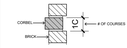
DRAWN BY	CB/GW	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	As indicated

DRAWING NAME
BRICK PATTERN

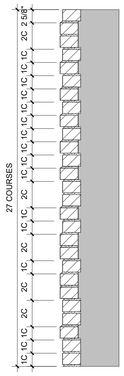
FLOOR/SECTION	PHASE	DRAWING NO.
	BID	A5.1.0

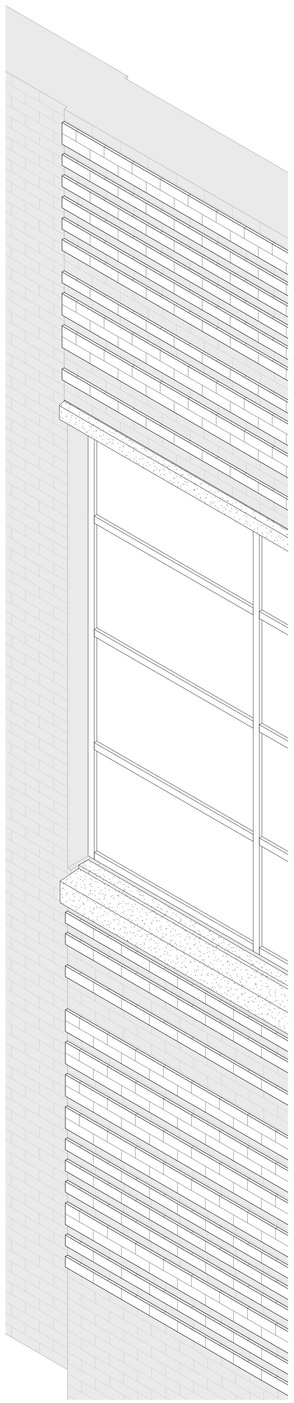
BRICK PATTERN LEGEND

DATUM FACE OF WALL

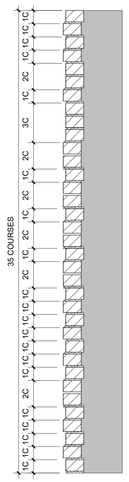


BP-1.3.1



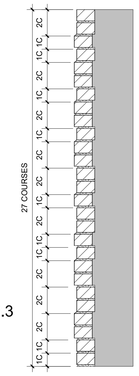


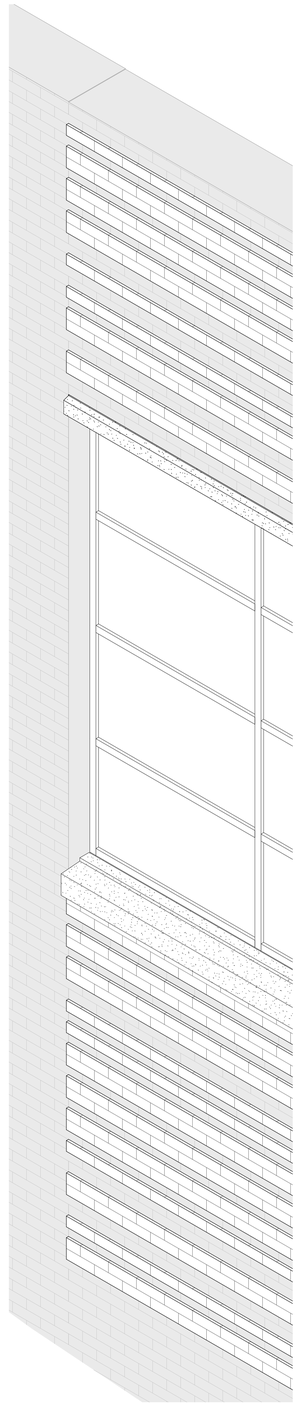
BP-1.2.3



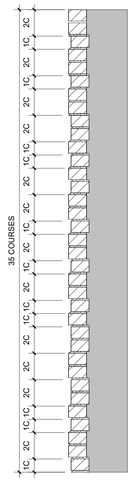
1 BP-1.2.3
SCALE: 1" = 1'-0"

BP-1.3.3



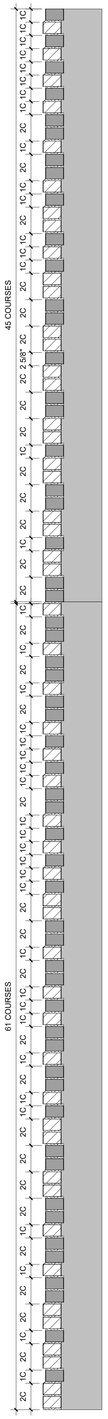


BP-1.3.2

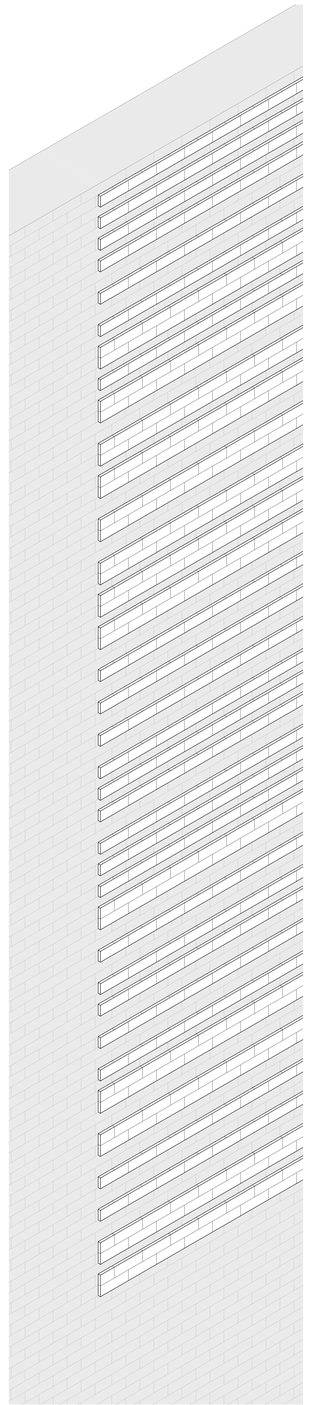


2 BP-1.3.2
SCALE: 1" = 1'-0"

BP-1.5.1



BP-1.4.1



4 BP-1.4.1
SCALE: 1" = 1'-0"

EWING COLE

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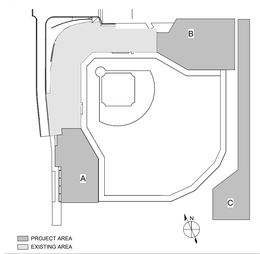
CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. 52711 NORTH CAROLINA RALEIGH, NC

JASON C. KOLLMAN REGISTERED 11036 NORTH CAROLINA CHARLOTTE, NC
9/3/2024

REVISIONS

NO.	BY	DESCRIPTION	DATE
	EC	ISSUE FOR BID	09/03/2024

NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT

1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	CB/GW	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	As indicated

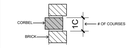
DRAWING NAME

BRICK PATTERN

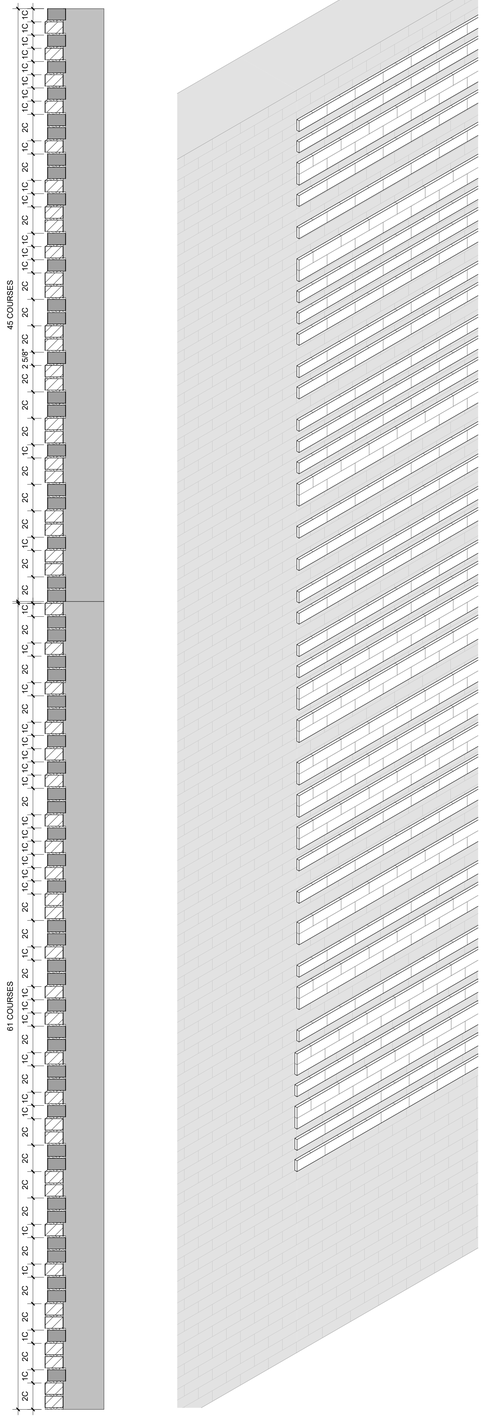
FLOOR/SECTION PHASE	DRAWING NO.
BID	A5.1.1

BRICK PATTERN LEGEND

DATUM FACE OF WALL



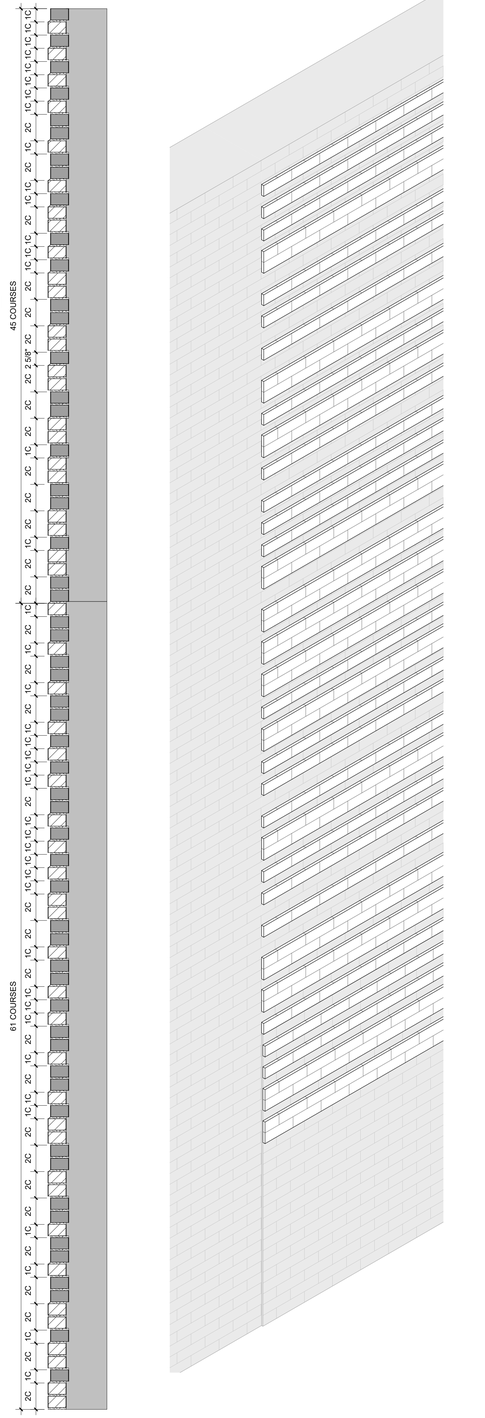
BP-1.6.1



BP-1.5.2

1 BP-1.5.2
SCALE: 1" = 1'-0"

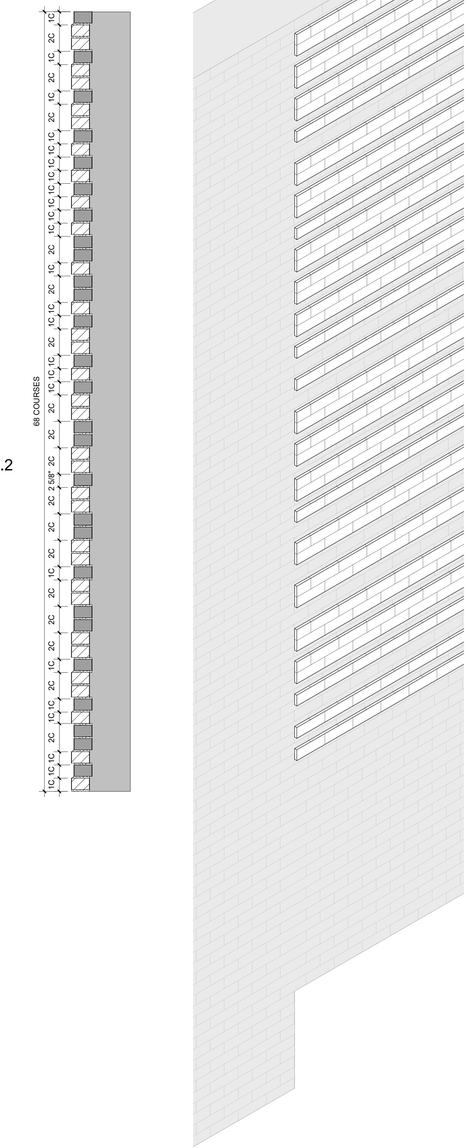
BP-1.7.1



BP-1.6.2

2 BP-1.6.2
SCALE: 1" = 1'-0"

BP-1.7.2



3 BP-1.7.2
SCALE: 1" = 1'-0"

EWING COLE

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CONSULTANTS

SCO PROJECT NO. 22-24384-01A
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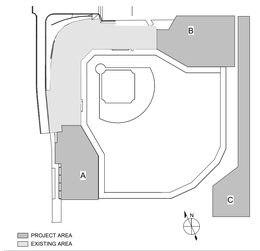
KEY PLAN



PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC.
PROFESSIONAL ENGINEER
52711
KONSTANTINOS KOSMOPOULOS
RALEIGH, NC

JASON C. KOLB
REGISTERED LANDSCAPE ARCHITECT
11036
NORTH CAROLINA
CHARLOTTE, NC

9/3/2024

REVISIONS

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DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

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PROJECT NO.	20220400	SCALE	As indicated

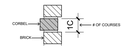
DRAWING NAME

BRICK PATTERN

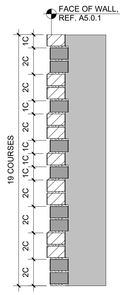
FLOOR/SECTION	PHASE	DRAWING NO.
	BID	A5.1.2

BRICK PATTERN LEGEND

DATUM FACE OF WALL



BP-2.1.4



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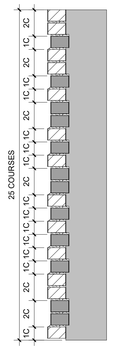
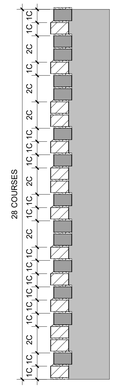
BP-2.1.3



15 BP-2.1.3 SCALE: 1" = 1'-0"

EXTERIOR

BP-2.1.2



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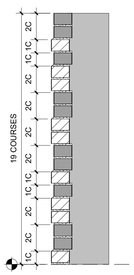
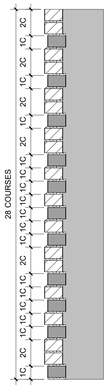
BP-2.1.1



WE'RE THE RED AND WHITE FROM STATE

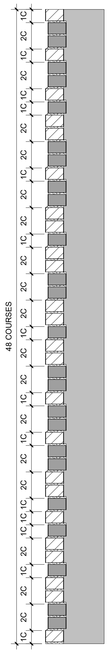
13 BP-2.1.1 SCALE: 1" = 1'-0"

BP-2.2.2



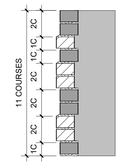
11 BP-2.2.2 SCALE: 1" = 1'-0"

BP-2.2.1



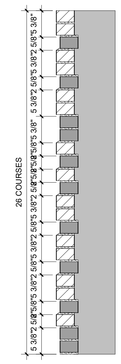
12 BP-2.2.1 SCALE: 1" = 1'-0"

BP-2.3.3



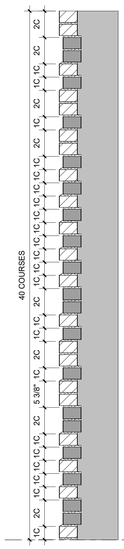
8 BP-2.3.3 SCALE: 1" = 1'-0"

BP-2.3.2



9 BP-2.3.2 SCALE: 1" = 1'-0"

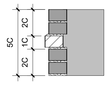
BP-2.3.1



A HAND BEHIND OUR BACK

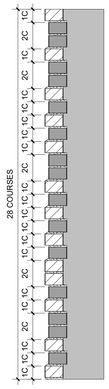
10 BP-2.3.1 SCALE: 1" = 1'-0"

BP-2.4.4



4 BP-2.4.4 SCALE: 1" = 1'-0"

BP-2.4.3



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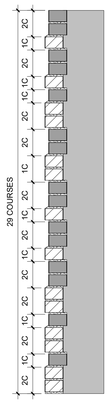
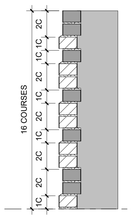
BP-2.4.2



6 BP-2.4.2 SCALE: 1" = 1'-0"

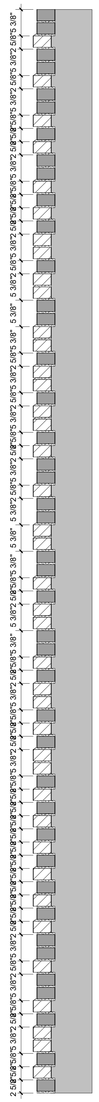
BP-2.4.1



WE CAN TAKE ON ALL THE REST

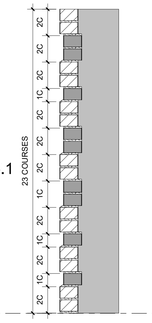
7 BP-2.4.1 SCALE: 1" = 1'-0"

BP-2.?.?



3 BP-2.X.1 SCALE: 1" = 1'-0"

BP-2.5.1



COME OVER THE HILL, CAROLINE

2 BP-2.5.1 SCALE: 1" = 1'-0"

EWING COLE

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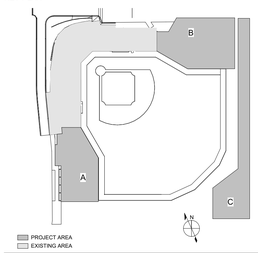
CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

REVISIONS

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NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT

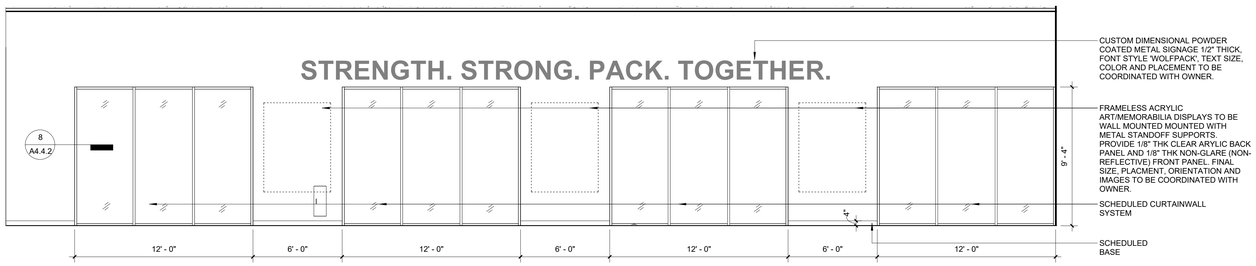
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	CB/GW	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	As indicated

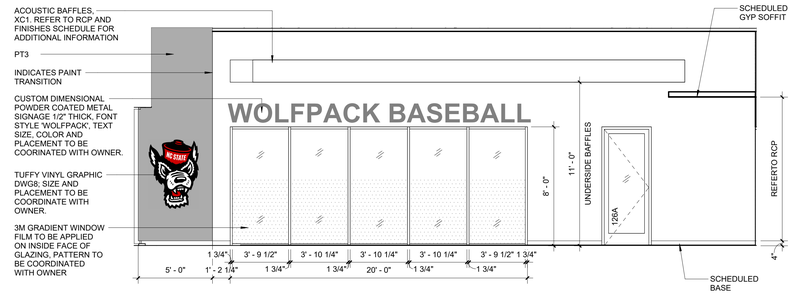
DRAWING NAME

BRICK PATTERN

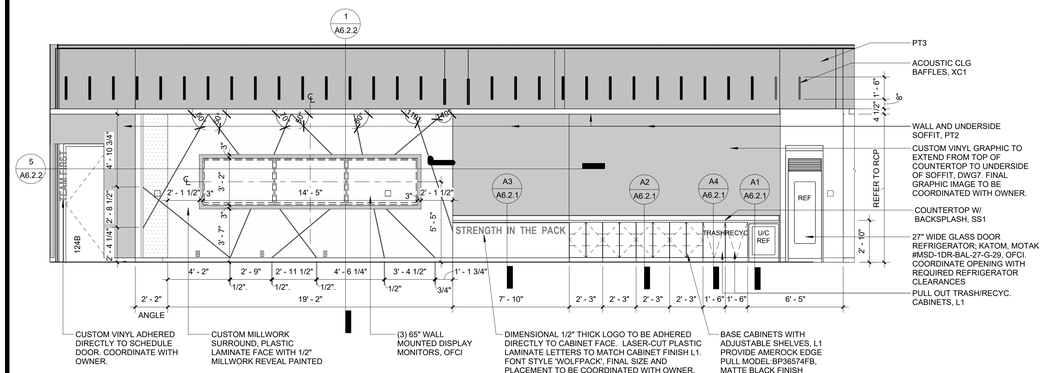
FLOOR/SECTION	PHASE	DRAWING NO.
	BID	A5.1.3



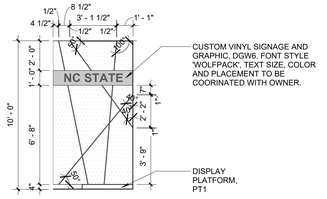
12 PLAYER'S LOUNGE - EAST ELEVATION
SCALE: 1/4" = 1'-0"



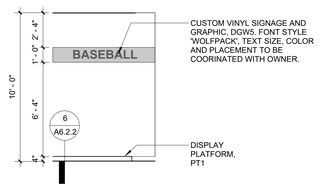
11 PLAYER'S LOUNGE - SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



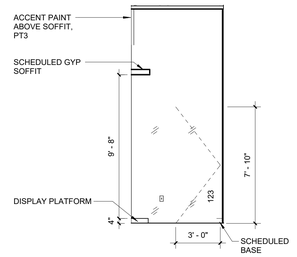
10 PLAYER'S LOUNGE - WEST ELEVATION
SCALE: 1/4" = 1'-0"



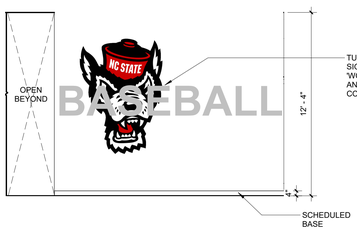
9 PLAYER'S LOUNGE VESTIBULE - SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



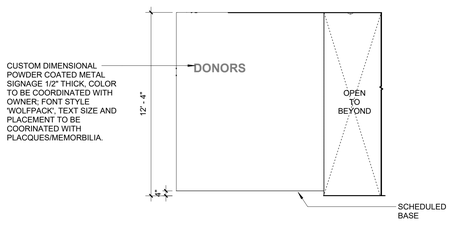
8 PLAYER'S LOUNGE VESTIBULE - WEST ELEVATION
SCALE: 1/4" = 1'-0"



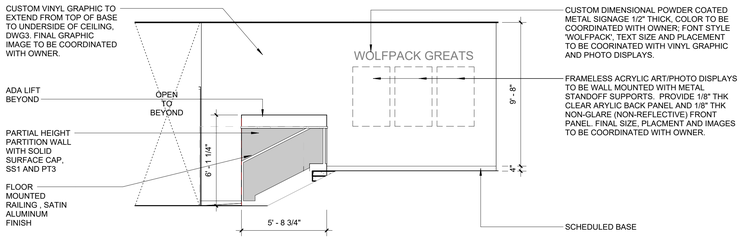
7 PLAYER'S LOUNGE VESTIBULE - NORTH ELEVATION
SCALE: 1/4" = 1'-0"



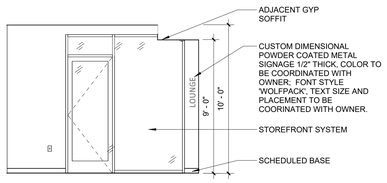
6 LOWER LOBBY - WEST ELEVATION
SCALE: 1/4" = 1'-0"



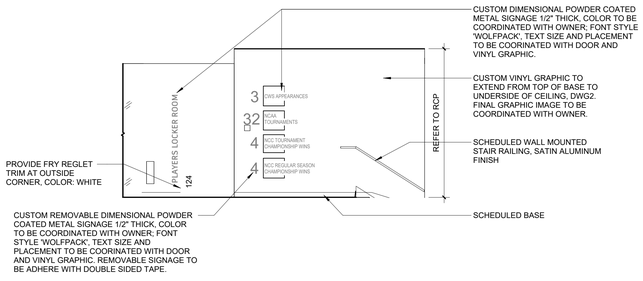
5 LOWER LOBBY - NORTH ELEVATION
SCALE: 1/4" = 1'-0"



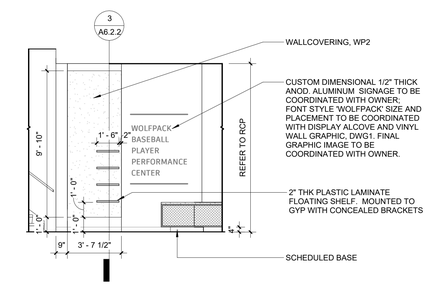
4 UPPER LOBBY - NORTH ELEVATION
SCALE: 1/4" = 1'-0"



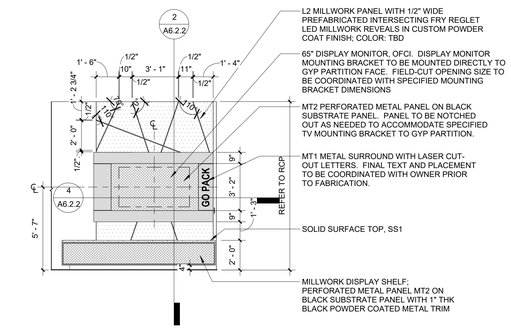
13 UPPER LOBBY - EAST ELEVATION
SCALE: 1/4" = 1'-0"



3 UPPER LOBBY - SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



2 LOWER LOBBY - SOUTH ELEVATION B
SCALE: 1/4" = 1'-0"



1 LOWER LOBBY - SOUTH ELEVATION A
SCALE: 1/4" = 1'-0"

EWING COLE
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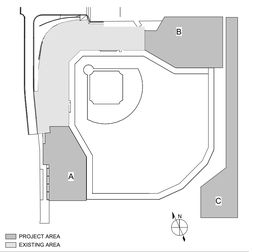
CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. ARCHITECTURE + INTERIORS, PLLC. REGISTERED ARCHITECTURAL FIRM C-0832 RALEIGH, NC
JASON C. KOLLMO REGISTERED ARCHITECT 11036 NORTH CAROLINA CHARLOTTE, NC
9/3/2024

REVISIONS

NO.	BY	DESCRIPTION	DATE
	EC	ISSUE FOR BID	09/03/2024

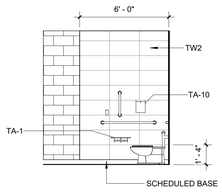
NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

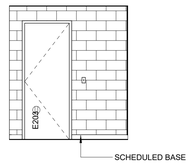
DRAWN BY	SH	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	1/4" = 1'-0"

DRAWING NAME
INTERIOR ELEVATIONS

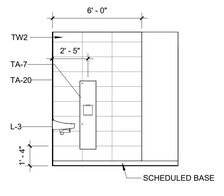
FLOOR/SECTION PHASE: BID
DRAWING NO.: A6.1.1



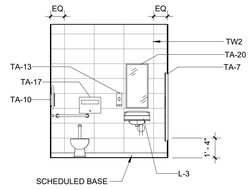
22 TLT 203 & 204 - TYP. ELEVATION D
SCALE: 1/4" = 1'-0"



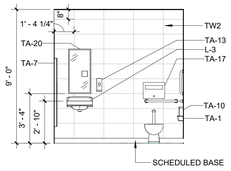
21 TLT 203 & 204 - TYP. ELEVATION C
SCALE: 1/4" = 1'-0"



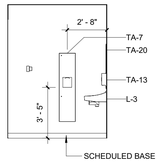
20 TLT 203 & 204 - TYP. ELEVATION B
SCALE: 1/4" = 1'-0"



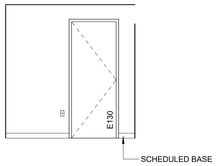
19 TLT 203 & 204 - TYP. ELEVATION A
SCALE: 1/4" = 1'-0"



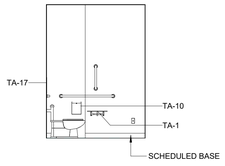
18 TLT 130 - WEST ELEVATION
SCALE: 1/4" = 1'-0"



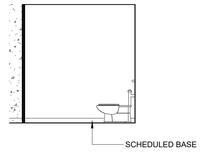
17 TLT 130 - SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



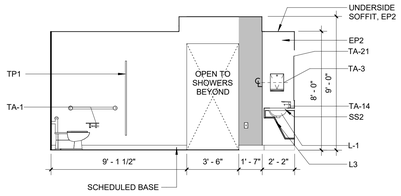
16 TLT 130 - EAST ELEVATION
SCALE: 1/4" = 1'-0"



15 TLT 130 - NORTH ELEVATION
SCALE: 1/4" = 1'-0"



12 LOCKER ROOM TOILET - EAST ELEVATION
SCALE: 1/4" = 1'-0"

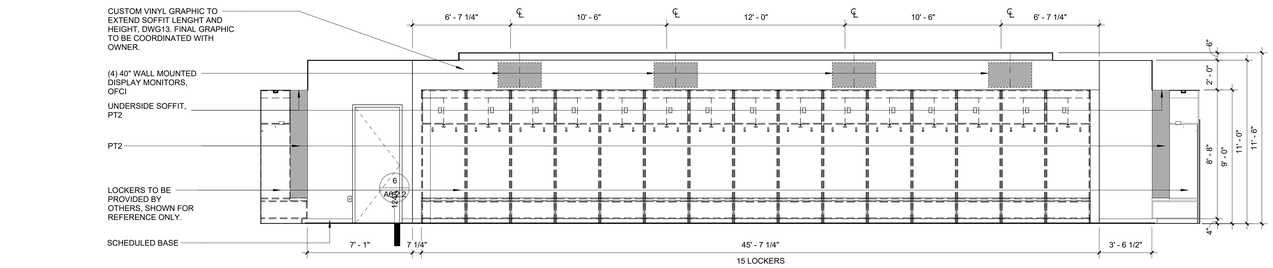


9 LOCKER ROOM TOILET - NORTH ELEVATION
SCALE: 1/4" = 1'-0"

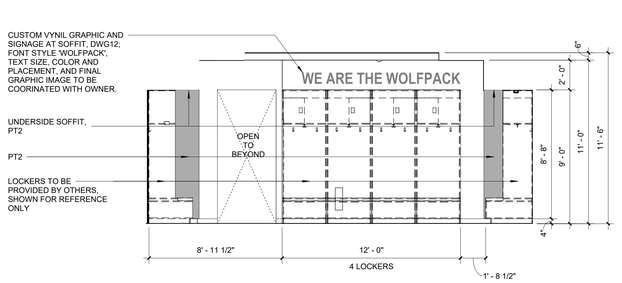
8 LOCKER ROOM TOILET - N ELEVATION
SCALE: 1/4" = 1'-0"

7 SHOWER AND TOILET - WEST ELEVATION
SCALE: 1/4" = 1'-0"

6 SHOWER AND VANITY - EAST ELEVATION
SCALE: 1/4" = 1'-0"



5 LOCKER ROOM - EAST ELEVATION
SCALE: 1/4" = 1'-0"



4 LOCKER ROOM - SOUTH ELEVATION
SCALE: 1/4" = 1'-0"

3 LOCKER ROOM - WEST ELEVATION
SCALE: 1/4" = 1'-0"

2 LOCKER ROOM - NORTH ELEVATION
SCALE: 1/4" = 1'-0"

1 VESTIBULE 124A - EAST ELEVATION
SCALE: 1/4" = 1'-0"

EWING COLE
8208 Brownleigh Drive, Suite 200
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CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN

PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. ARCHITECTURE PLANNING INTERIORS 52711 REGISTERED ARCHITECT RALEIGH, NC

JASON C. KOLLO REGISTERED ARCHITECT 11036 NORTH CAROLINA CHARLOTTE, NC
9/3/2024

REVISIONS

NO.	BY	DESCRIPTION	DATE
EC		ISSUE FOR BID	09/03/2024

NC STATE UNIVERSITY

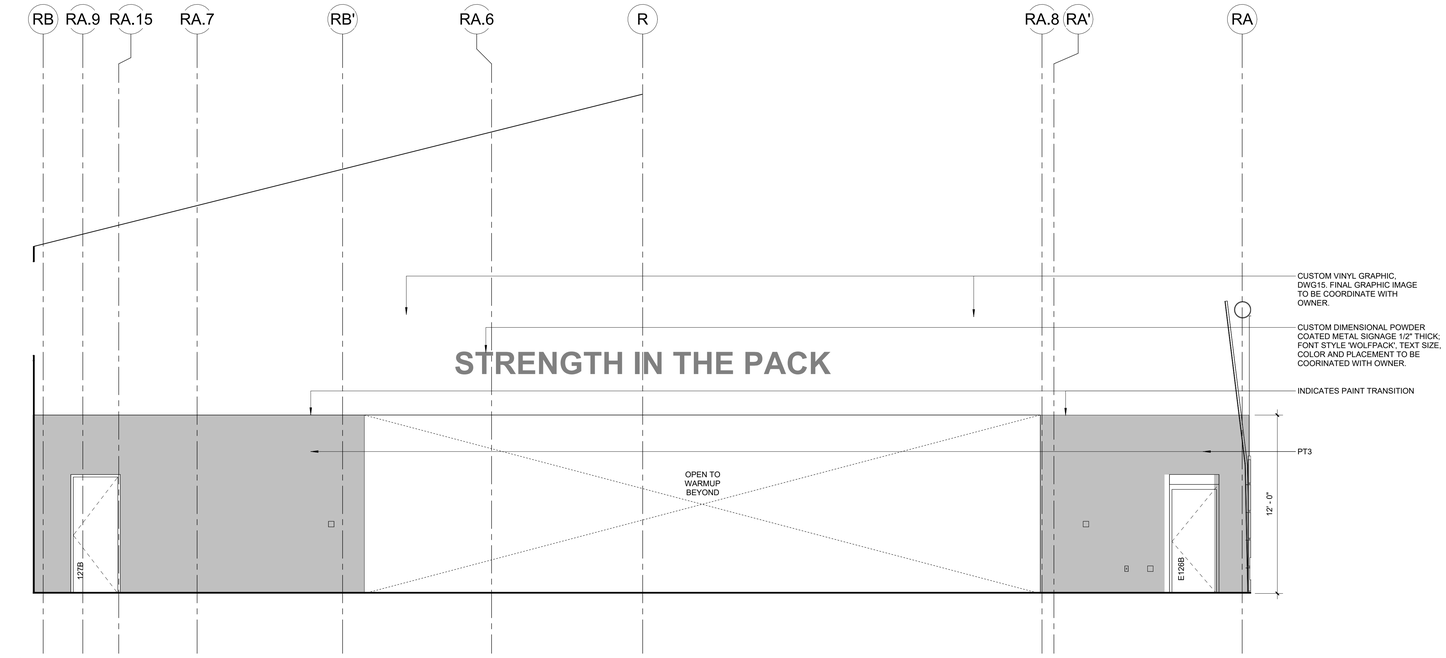
DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	SH, LH	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	1/4" = 1'-0"

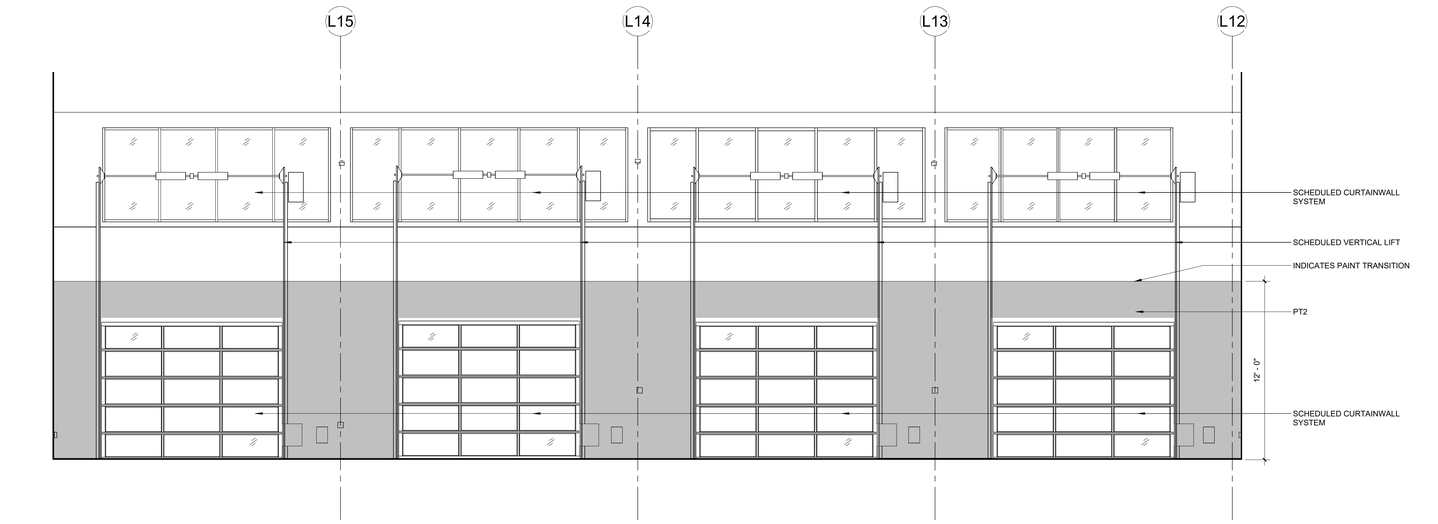
DRAWING NAME

INTERIOR ELEVATIONS

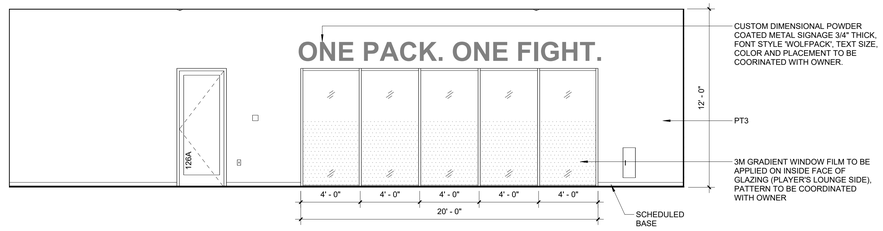
FLOOR/SECTION PHASE	DRAWING NO.
BID	A6.1.2



9 BATTING & PITCHING 126 - NORTH ELEVATION
SCALE: 1/4" = 1'-0"



8 BATTING & PITCHING 126 - EAST ELEVATION
SCALE: 1/4" = 1'-0"



6 WARMUP 126 - NORTH ELEVATION
SCALE: 1/4" = 1'-0"

EWING COLE

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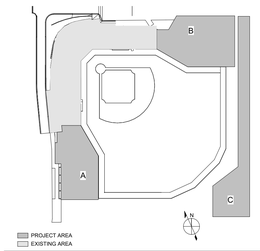
CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. ENVIRONMENTAL MECHANICAL 52711 RALEIGH, NC
JASON C. KOLAND REGISTERED PROFESSIONAL ENGINEER 11036 NORTH CAROLINA CHARLOTTE, INC
9/3/2024

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	EC	ISSUE FOR BID	09/03/2024

NC STATE UNIVERSITY

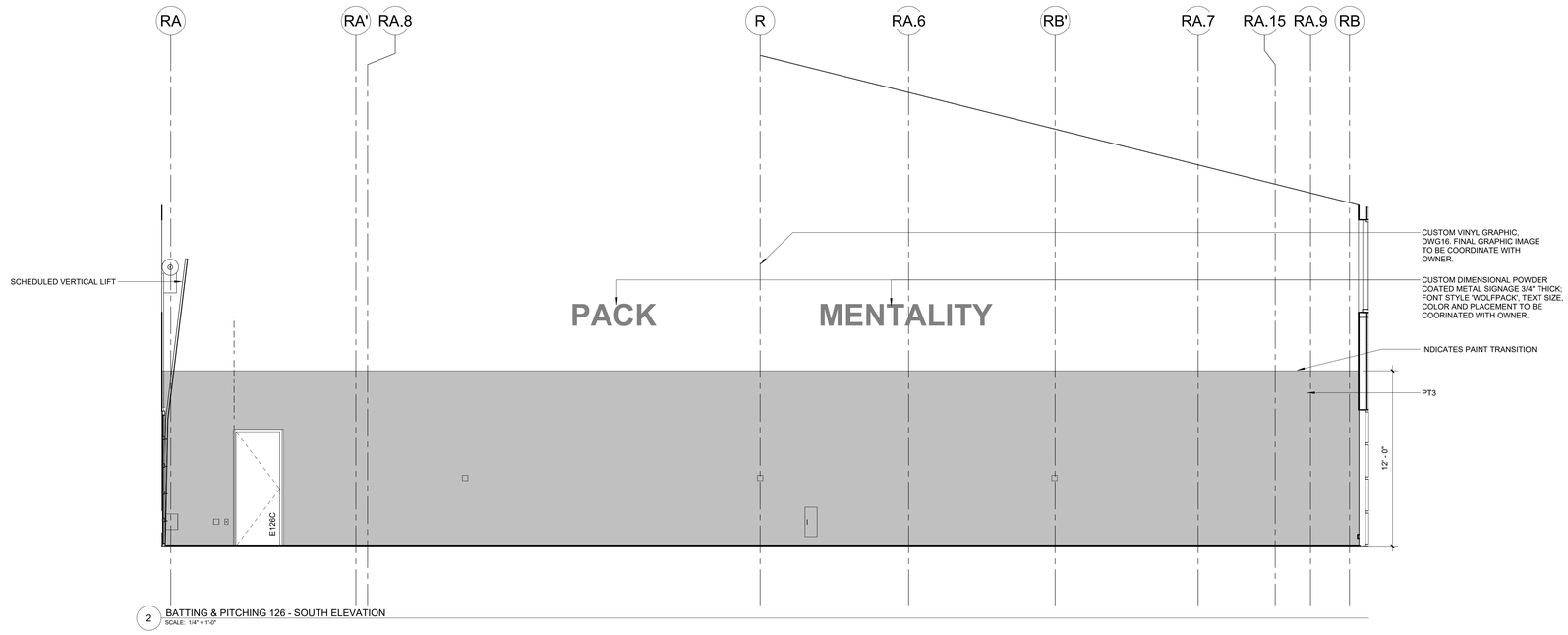
DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	SH, LH	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	1/4" = 1'-0"

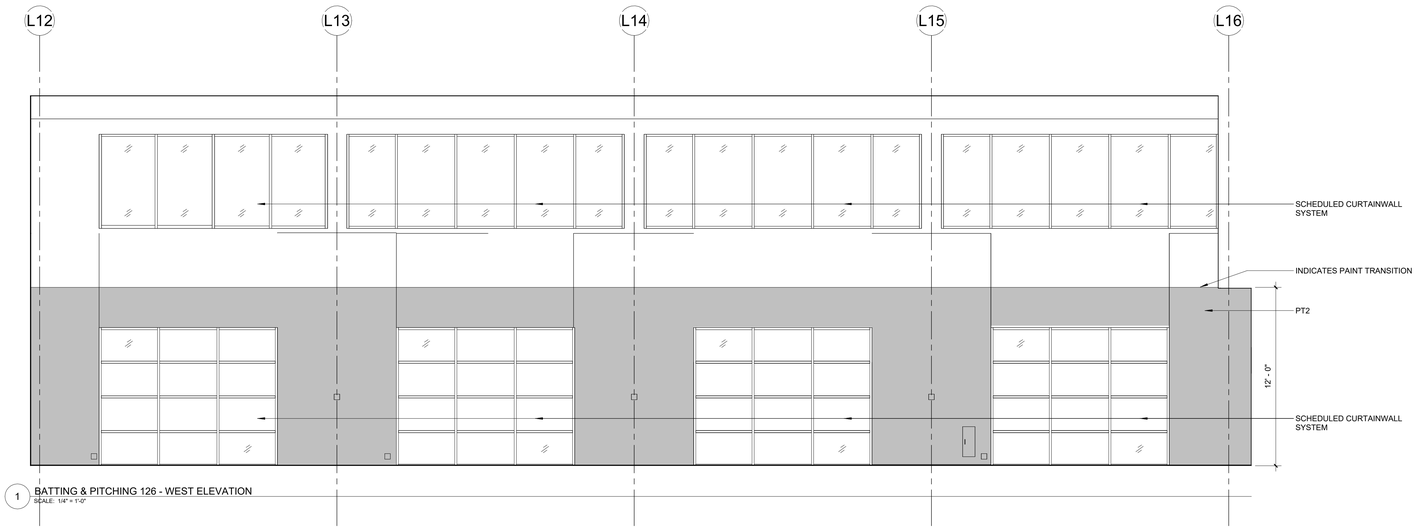
DRAWING NAME

INTERIOR ELEVATIONS

FLOOR/SECTION	PHASE	DRAWING NO.
	BID	A6.1.3



2 BATTING & PITCHING 126 - SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



1 BATTING & PITCHING 126 - WEST ELEVATION
SCALE: 1/4" = 1'-0"

EWING COLE

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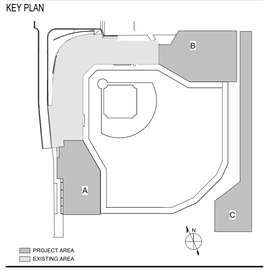
CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. 52711 NORTH CAROLINA RALEIGH, NC

TYSON C. KOLANO 11036 REGISTERED ARCHITECT NORTH CAROLINA CHARLOTTE, NC
9/3/2024

REVISIONS

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NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT

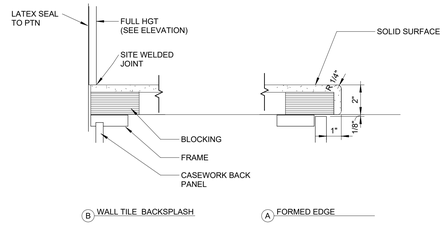
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	SH, LH	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	1/4" = 1'-0"

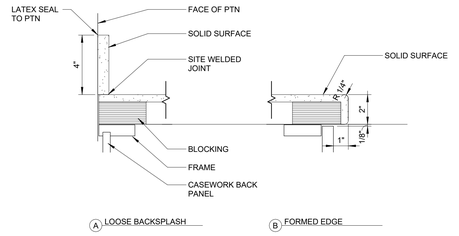
DRAWING NAME

INTERIOR ELEVATIONS

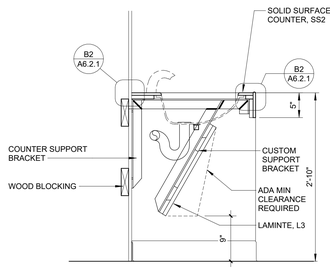
FLOOR/SECTION	PHASE	DRAWING NO.
	BID	A6.1.4



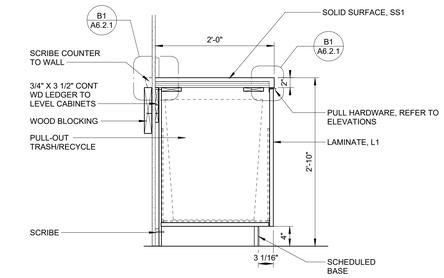
B2 SOLID SURFACE (SS) COUNTERTOP TILE WALL DETAILS
SCALE: 3" = 1'-0"



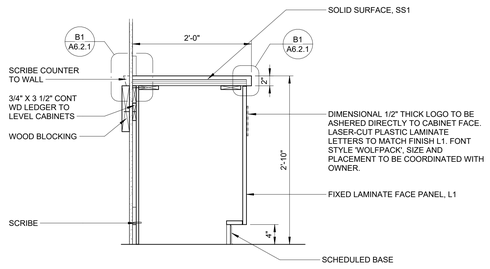
B1 SOLID SURFACE (SS) COUNTERTOP DETAILS
SCALE: 3" = 1'-0"



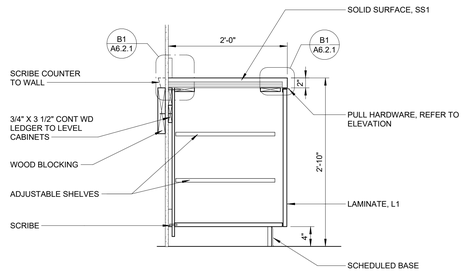
A5 BASE CABINET WITH SINK DETAIL
SCALE: 1" = 1'-0"



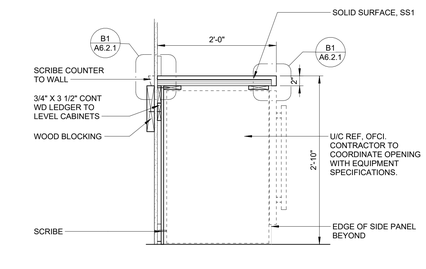
A4 BASE CABINET - RECYCLING PULL-OUT CABINET
SCALE: 1" = 1'-0"



A3 ENCLOSED BASE CABINET DETAIL
SCALE: 1" = 1'-0"



A2 BASE CABINET WITH SHELF DETAIL
SCALE: 1" = 1'-0"



A1 BASE CABINET WITH UNDERCOUNTER REFRIGERATOR DETAIL
SCALE: 1" = 1'-0"

EWING COLE

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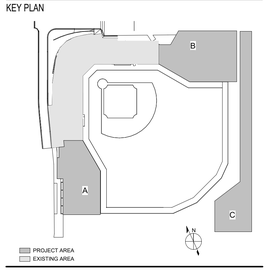
CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
WILLIAM MCCULLOUGH
PROJECT MANAGER
GEORGE BUSHEY

EWINGCOLE, INC. 52711 REGISTERED ARCHITECT RALEIGH, NC
JASON C. KOLAND 11036 REGISTERED ARCHITECT SOUTH CAROLINA CHARLOTTE, NC
7/3/2024

REVISIONS

NO.	BY	DESCRIPTION	DATE
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NC STATE UNIVERSITY

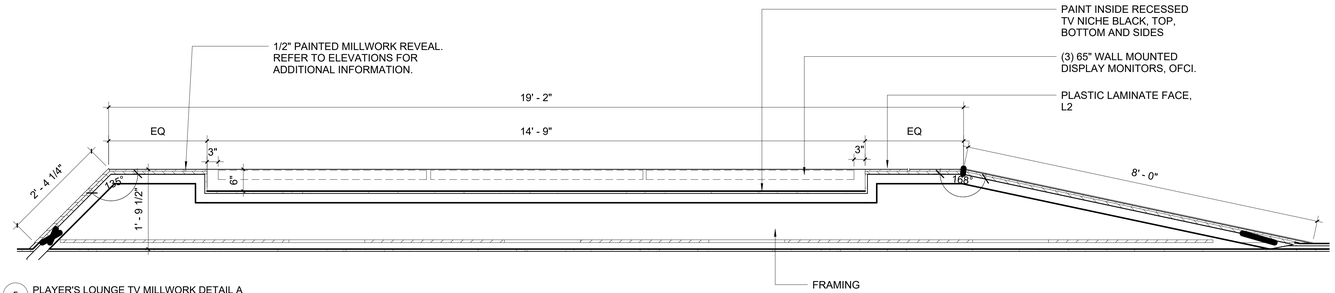
DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	SH, LH	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	As indicated

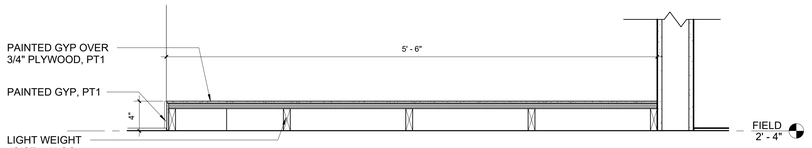
DRAWING NAME

INTERIOR CASEWORK

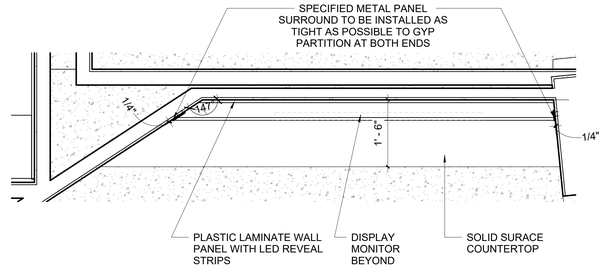
FLOOR/SECTION PHASE	DRAWING NO.
BID	A6.2.1



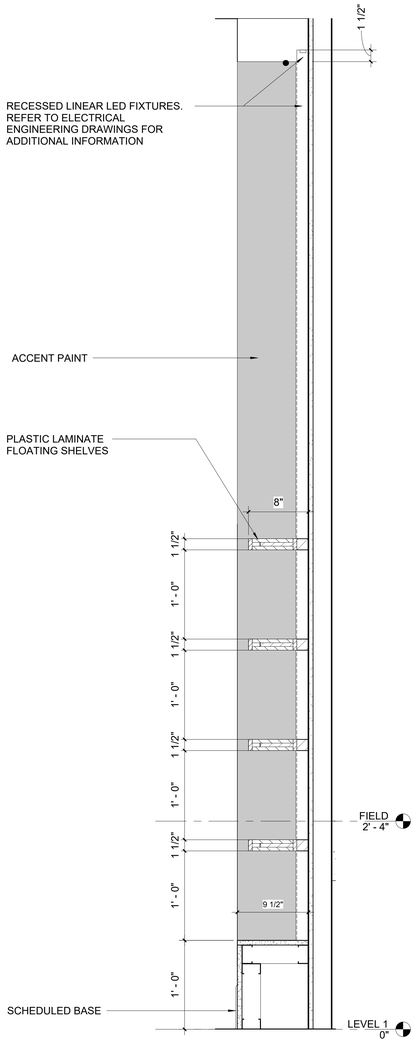
5 PLAYER'S LOUNGE TV MILLWORK DETAIL A
SCALE: 3/4" = 1'-0"



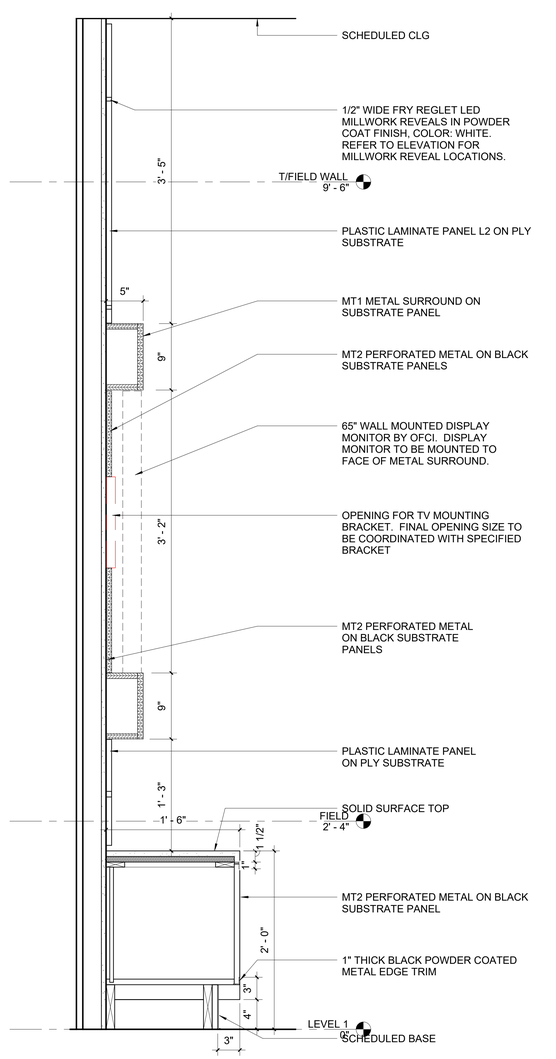
6 PLAYER'S LOUNGE VESTIBULE - PLATFORM MILLWORK DETAIL
SCALE: 1 1/2" = 1'-0"



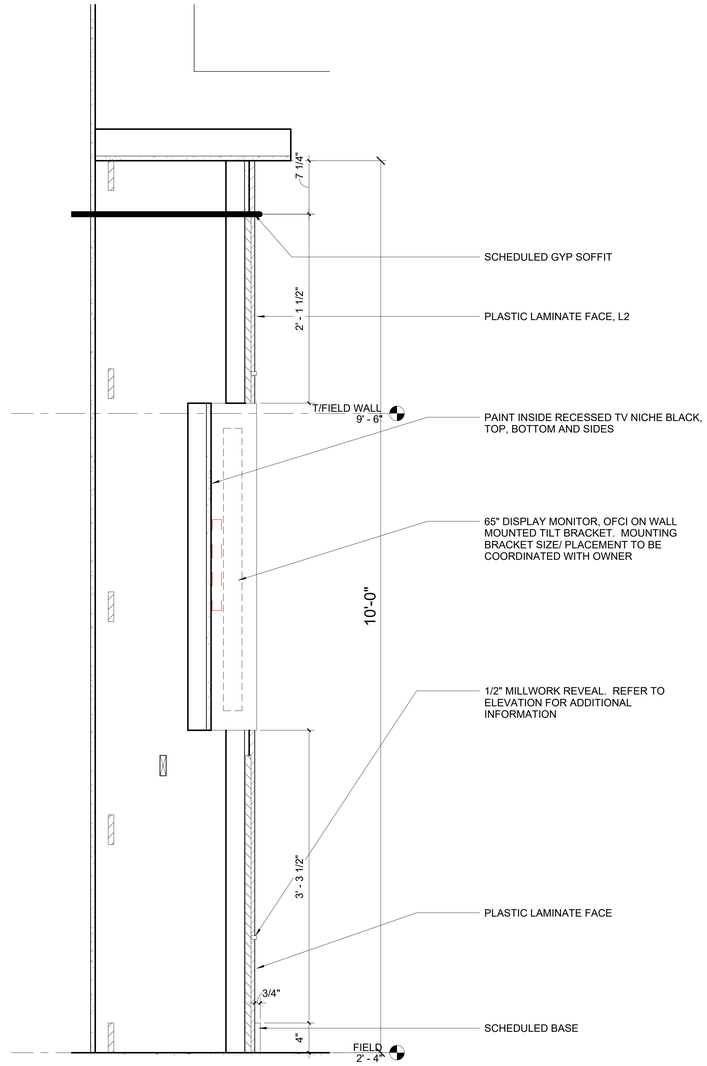
4 LOWER LOBBY TV & DISPLAY MILLWORK DETAIL B
SCALE: 3/4" = 1'-0"



3 LOWER LOBBY DISPLAY ALCOVE DETAIL A
SCALE: 1 1/2" = 1'-0"



2 LOWER LOBBY TV & DISPLAY MILLWORK DETAIL A
SCALE: 1 1/2" = 1'-0"



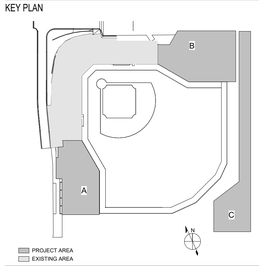
1 PLAYER'S LOUNGE TV MILLWORK DETAIL B
SCALE: 1 1/2" = 1'-0"

EWING COLE
8208 Brownleigh Drive, Suite 200
Raleigh, NC 27617
Tel: 919-460-6700 Fax: 919-460-6733

CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
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EWINGCOLE, INC. ARCHITECTURE INTERIORS 52711 REGISTERED RALEIGH, NC

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7/3/2024

REVISIONS

NO.	BY	DESCRIPTION	DATE
	EC	ISSUE FOR BID	09/03/2024

NC STATE UNIVERSITY

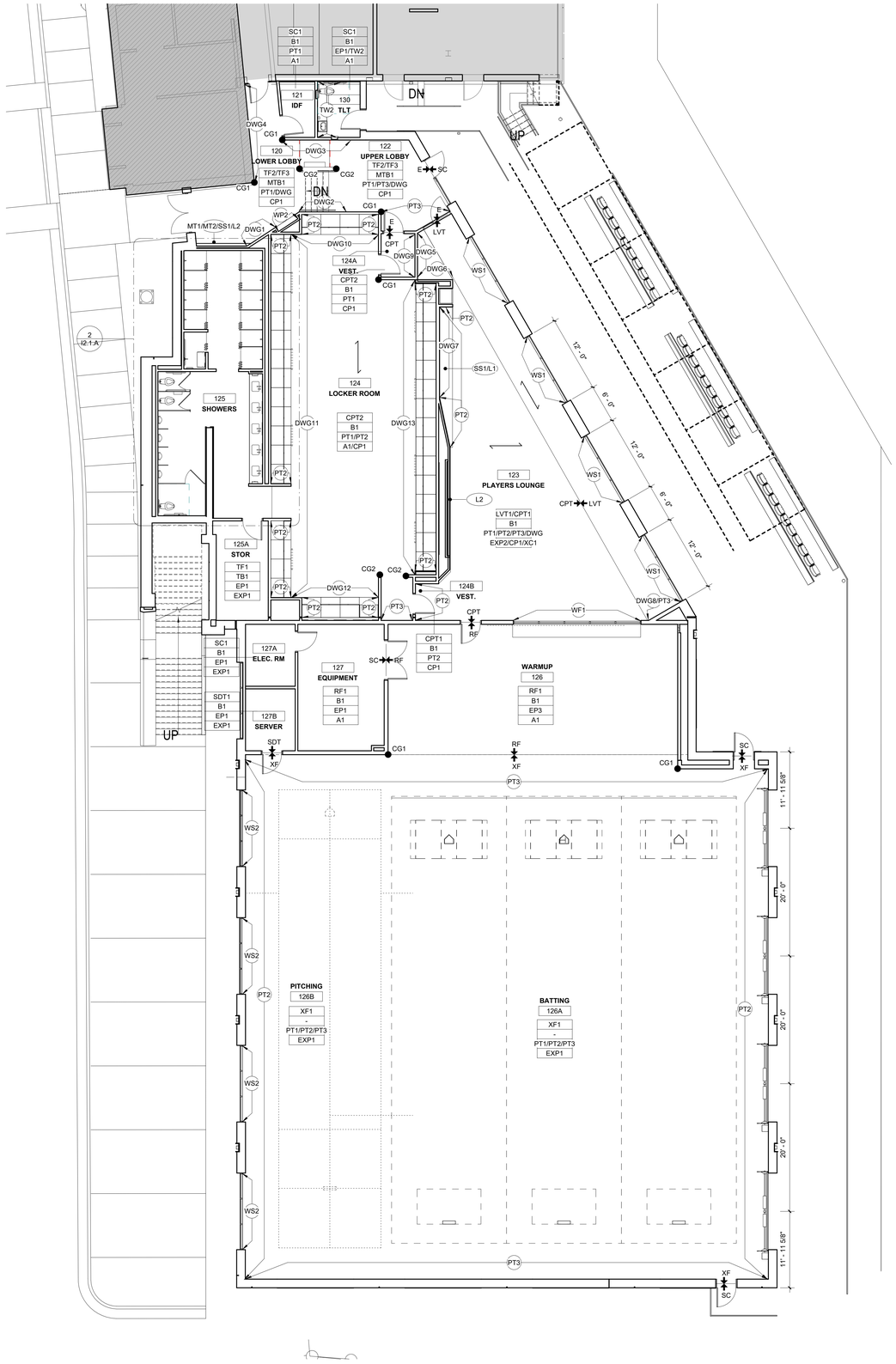
DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	SH, LH	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	As indicated

DRAWING NAME

INTERIOR ARCHITECTURAL MILLWORK

FLOOR/SECTION	PHASE	DRAWING NO.
	BID	A6.2.2



1 L1 - FINISH LOCATION PLAN - TRAINING FACILITY
SCALE: 1/8" = 1'-0"

GENERAL FINISH NOTES

1. REFER TO ARCHITECTURAL DOCUMENTS FOR ADDITIONAL FINISH MATERIAL REQUIREMENTS. ANY DISCREPANCY BETWEEN THIS SCHEDULE AND OTHER CONTRACT DOCUMENTS OR FIELD CONDITIONS SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT FOR RESOLUTION AS OUTLINED IN THE GENERAL CONDITIONS AND DIVISION 01 SECTION – 'QUALITY REQUIREMENTS'.
2. IT IS THE INTENT OF THESE DRAWINGS THAT ALL EXPOSED SURFACES RECEIVE NEW FINISHES AS INDICATED ON THE DRAWINGS OR WRITTEN SPECIFICATIONS UNLESS SPECIFICALLY NOTED OTHERWISE. ANY SURFACE WHICH DOES NOT HAVE A FINISH NOTED SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND FINISHED PER THE ARCHITECT'S INSTRUCTIONS.
3. PRODUCTS LISTED AS BASIS OF DESIGN HEREIN AND ON THE FINISH SCHEDULE HAVE BEEN COORDINATED WITH OTHER FINISHES AND APPROVED BY THE OWNER. SUBMITTALS MUST COMPLY WITH SPECIFICATION SECTION 01 33 00 – 'SUBMITTAL PROCEDURES'.
4. ANY SUBSTITUTIONS TO THE BASIS OF DESIGN PRODUCT LISTED MUST BE SUBMITTED FOR REVIEW AND APPROVAL AND SUBMITTED IN A MANNER THAT COMPLIES WITH SPECIFICATION SECTION 01 25 00 – 'SUBSTITUTION PROCEDURES'. AN EQUIVALENT MANUFACTURER SUBMITTED MUST MATCH PERFORMANCE, QUALITY, COLOR, PATTERN AND FINISH OF THE REFERENCED MANUFACTURER ON THE FINISH SCHEDULE. REFER TO THE WRITTEN SPECIFICATIONS FOR FURTHER DETAILS ON ALL FINISH MATERIALS.
5. THE CONTRACTOR SHALL IDENTIFY AND PRIORITIZE ALL LEAD TIMES FOR MATERIALS SPECIFIED TO AVOID SCHEDULE CONFLICTS. THIS INCLUDES MATERIALS REQUIRING MOCKUPS. NEITHER THE OWNER NOR ARCHITECT WILL BE HELD RESPONSIBLE FOR INACTION ON THE PART OF THE CONTRACTOR RESULTING IN ADDITIONAL EXPEDITED SHIPPING COSTS OR DELAYS TO THE CONSTRUCTION SCHEDULE.
6. CONTRACTOR TO CONFIRM ALL TRANSITIONS TO EXISTING FLOORING MATERIALS WITH THE ARCHITECT BEFORE PROCEEDING.
7. PROVIDE SUBFLOOR LEVELERS WHERE NECESSARY FOR SMOOTH TRANSITIONS OF ALL FLOOR FINISH MATERIALS. REFER TO FLOOR TRANSITION DETAILS ON SHEET (***) FOR ALL CONDITIONS.
8. ALL WALL FINISHES TO BE APPLIED FROM BREAK-IN-PLANE TO BREAK-IN-PLANE EVEN IF EXTENDS BEYOND AREA DISTURBED BY RENOVATION WORK.
9. CLOSETS OF ROOMS WITHOUT SPECIFIC FINISHES SHALL BE FINISHED WITH SAME FINISHES AS THE ADJOINING ROOM. PAINT GRADE SHELVING TO BE PAINTED TO MATCH ADJACENT WALL COLOR IN SEMIGLOSS FINISH.
10. HM & PAINT GRADE WOOD DOORS & DOOR FRAMES SHALL BE PAINTED FINISH (P*) UNO. REFER TO DOOR SCHEDULES ON SHEET (***) FOR FURTHER DETAILS.
11. ALL DRYWALL SOFFITS, FASCIAS, AND CEILINGS TO BE PAINTED FINISH (P*) UNO. REFER TO REFLECTED CEILING PLAN FOR LOCATIONS.
12. HANDRAILS AND GUARD RAILS OF STAIRS SHALL BE PAINTED FINISH (P*) UNO. STAIR STRINGERS SHALL BE PAINTED FINISH (P*).
13. REFER TO SHEET (***) AND WRITTEN SPECIFICATION SECTION 14 ** ** FOR FURTHER DETAILS AND FINISHES OF ELEVATOR CAB INTERIOR.
14. CONTRACTOR TO PROVIDE MAINTENANCE INSTRUCTIONS FOR ALL FINISHES TO OWNER AT SUBSTANTIAL COMPLETION.

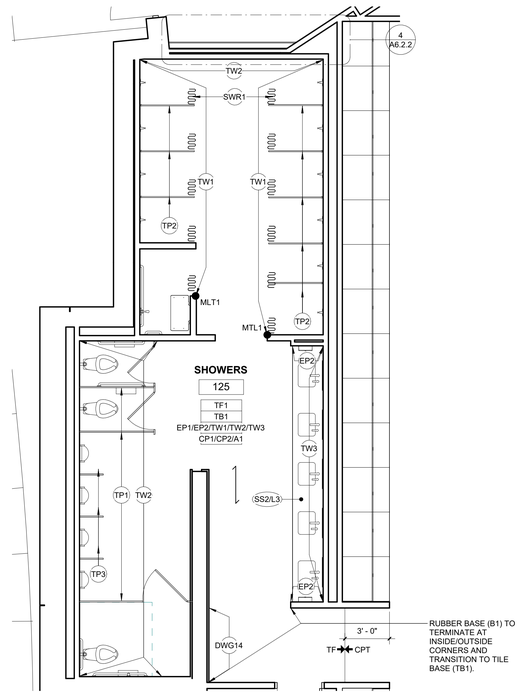
FINISH LEGEND

LEGEND KEY

- XXX / XXX / XXX / XXX — INDICATES OVERALL FLOOR / BASE / WALL / CEILING TREATMENT
- XX — INDICATES ACCENT TREATMENT
- XX XX — INDICATES TWO WALL FINISHES, REFER TO ELEVATIONS FOR ADDITIONAL INFORMATION
- XX — INDICATES MILLWORK TREATMENT
- XX/XX — INDICATES COUNTERTOP TREATMENT
- INDICATES CASEWORK TREATMENT
- INDICATES CHANGE OF MATERIALS, SEE TRANSITION DETAILS
- CG — INDICATES CORNERGUARD
- INDICATES WALL PROTECTION EXTENT
- INDICATES PATTERN/GRAIN DIRECTION

MATERIAL CODES

A	ACOUSTICAL TILE	PT	PAINT
B	RUBBER BASE	RF	RESILIENT FLOOR
CPT	CARPET TILE	SC	SEALED CONCRETE
CG	CORNER GUARD	SDT	STATIC DISSIPATIVE TILE
CPG	CEILING PAINT	SS	SOLID SURFACE
DWG	DIGITAL VINYL GRAPHIC	SWR	SHOWER CURTAIN
E	EPOXY / RESINOUS FLOORING	TB	TILE BASE
EP	EPOXY PAINT	TF	TILE FLOOR
EX	EXISTING TO REMAIN	TP	TOILET PARTITION
EXP	EXPOSED TO STRUCTURE	TW	TILE WALL
HVT	HYBRID VINYL TILE	TZB	POURED EPOXY TERRAZZO
IB	INTEGRAL BASE	WS	WINDOW SHADE
L	LAMINATE	XC	SPECIALTY CEILING
LVT	LUXURY VINYL TILE	XF	SPECIALTY FLOORING
MT	METAL	WF	WINDOW FILM
MTB	METAL BASE	WP	WALL PROTECTION
MTL	METAL TRIM	WS	WINDOW SHADE



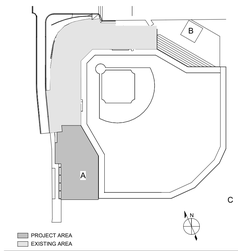
2 ENLARGED FINISH PLAN - SHOWER/TOILETS
SCALE: 1/4" = 1'-0"

EWING COLE
8208 Brownleigh Drive, Suite 200
Raleigh, NC 27617
Tel: 919-460-6700 Fax: 919-460-6733

CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
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EWINGCOLE, INC. REGISTERED ARCHITECTURAL 52711 RALEIGH, NC
JASON C. KOLLAS REGISTERED ARCHITECT 11036 NORTH CAROLINA CHARLOTTE, NC
9/3/2024

REVISIONS

NO.	BY	DESCRIPTION	DATE

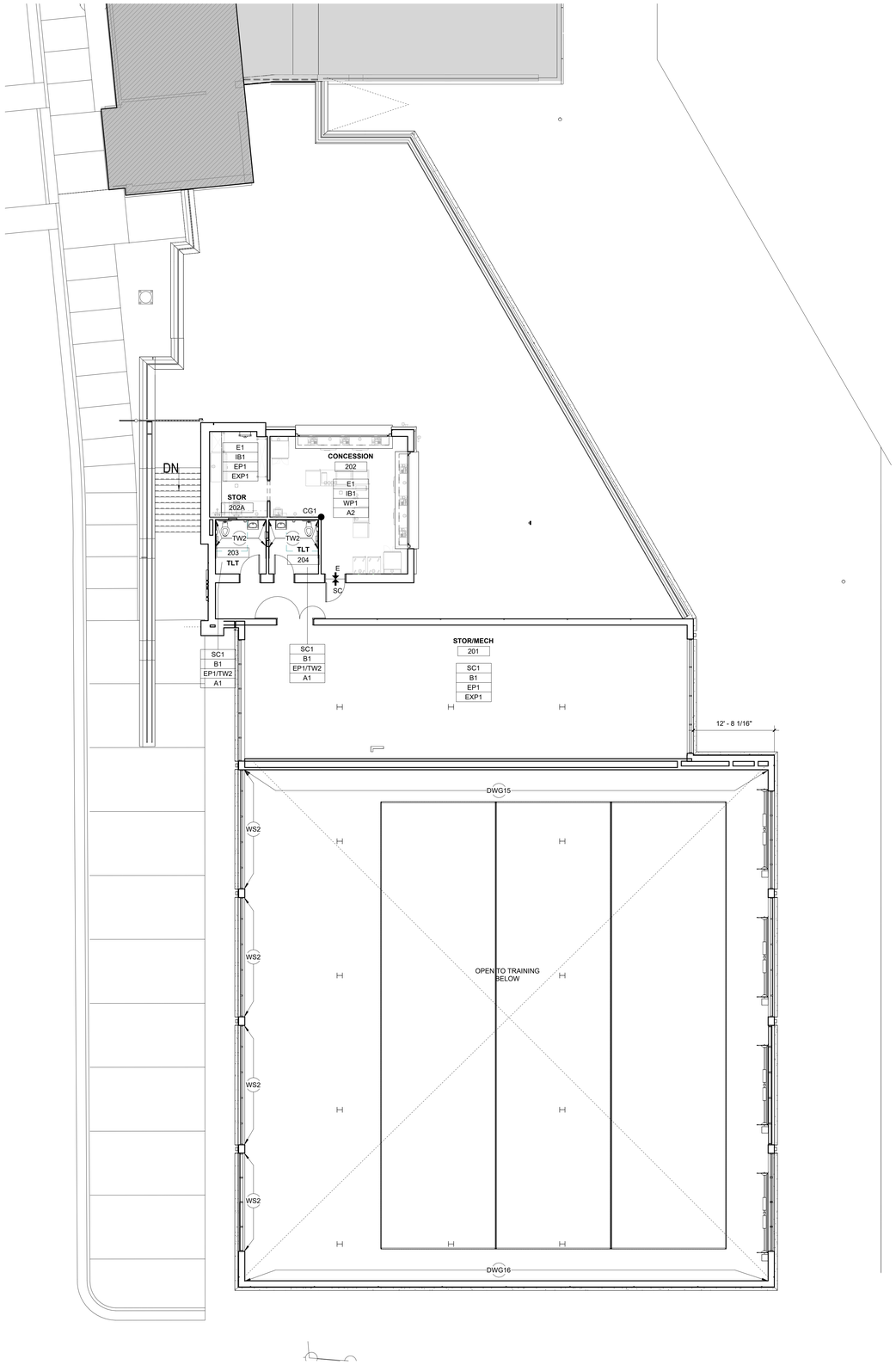
NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	SH, LH	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	As indicated

DRAWING NAME
L1 - FINISH LOCATION PLAN - TRAINING FACILITY

FLOOR/SECTION	PHASE	DRAWING NO.
	BID	I2.1.A



1 L2 - FINISH LOCATION PLAN - CONCOURSE / RIGHT FIELD
SCALE: 1/8" = 1'-0"

GENERAL FINISH NOTES

1. REFER TO ARCHITECTURAL DOCUMENTS FOR ADDITIONAL FINISH MATERIAL REQUIREMENTS. ANY DISCREPANCY BETWEEN THIS SCHEDULE AND OTHER CONTRACT DOCUMENTS OR FIELD CONDITIONS SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT FOR RESOLUTION AS OUTLINED IN THE GENERAL CONDITIONS AND DIVISION 01 SECTION – 'QUALITY REQUIREMENTS'.
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11. ALL DRYWALL SOFFITS, FASCIAS, AND CEILINGS TO BE PAINTED FINISH (P*) UNO. REFER TO REFLECTED CEILING PLAN FOR LOCATIONS.
12. HANDRAILS AND GUARD RAILS OF STAIRS SHALL BE PAINTED FINISH (P*) UNO. STAIR STRINGERS SHALL BE PAINTED FINISH (P*).
13. REFER TO SHEET (***) AND WRITTEN SPECIFICATION SECTION 14 ** ** FOR FURTHER DETAILS AND FINISHES OF ELEVATOR CAB INTERIOR.
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FINISH LEGEND

LEGEND KEY

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- XX — INDICATES MILLWORK TREATMENT
- XX/XX — INDICATES COUNTERTOP TREATMENT
- INDICATES CASEWORK TREATMENT
- INDICATES CHANGE OF MATERIALS, SEE TRANSITION DETAILS
- CG — INDICATES CORNERGUARD
- INDICATES WALL PROTECTION EXTENT
- INDICATES PATTERN/GRAIN DIRECTION

MATERIAL CODES

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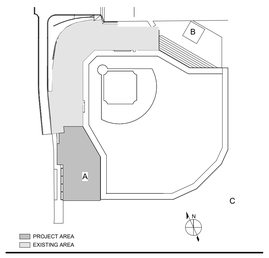
B	RUBBER BASE	RF	RESILIENT FLOOR
CPT	CARPET TILE	SC	SEALED CONCRETE
CG	CORNER GUARD	SDT	STATIC DISSIPATIVE TILE
CP/G	CEILING PAINT	SS	SOLID SURFACE
DWG	DIGITAL VINYL GRAPHIC	SWR	SHOWER CURTAIN
E	EPOXY / RESINOUS FLOORING	TB	TILE BASE
EP	EPOXY PAINT	TF	TILE FLOOR
EX	EXISTING TO REMAIN	TP	TOILET PARTITION
EXP	EXPOSED TO STRUCTURE	TW	TILE WALL
HVT	HYBRID VINYL TILE	TZB	POURED EPOXY TERRAZZO
IB	INTEGRAL BASE	WS	WINDOW SHADE
L	LAMINATE	XC	SPECIALTY CEILING
LVT	LUXURY VINYL TILE	XF	SPECIALTY FLOORING
MT	METAL	WF	WINDOW FILM
MTB	METAL BASE	WP	WALL PROTECTION
MTL	METAL TRIM	WS	WINDOW SHADE

EWING COLE
8208 Brownleigh Drive, Suite 200
Raleigh, NC 27617
Tel: 919-460-6700 Fax: 919-460-6733

CONSULTANTS

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
WILLIAM MCCULLOUGH
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GEORGE BUSHEY

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JASON C. KOLLMAN REGISTERED LANDSCAPE ARCHITECT 11036 NORTH CAROLINA CHARLOTTE, NC
9/3/2024

REVISIONS

NO.	BY	DESCRIPTION	DATE

NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	SH, LH	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	As indicated

DRAWING NAME

L2 - FINISH LOCATION PLAN - CONCOURSE / RIGHT FIELD

FLOOR/SECTION	PHASE	DRAWING NO.
	BID	I2.2.A

INTERIOR FINISH SCHEDULE

CODE	LOCATION	TYPE	MANUFACTURER	STYLE/COLOR	FINISH	NOTES	CONTACT	SPECIFICATION SECTION
FLOORS								
CPT1	AS INDICATED ON FINISH PLAN	CARPET TILE	INTERFACE	STYLE: NIGHT LIGHT COLLECTION LUMINESCEN | COLOR: IRON POPPY 107236 | SIZE: 25CM x 1M | THICKNESS: 0.09"		INSTALLATION: ASHLAR	KAY JACKSON; kay.jackson@interface.com	09 68 13
CPT2	AS INDICATED ON FINISH PLAN	CARPET TILE	INTERFACE	STYLE: CEREMONY CE172 | COLOR:MIKADO 104955 | SIZE: 25CM x 1M | THICKNESS: 0.10"		INSTALLATION: ASHLAR	KAY JACKSON; kay.jackson@interface.com	09 68 13
E1	CONCESSIONS	RESINOUS FLOOR	STONHARD	STYLE: STONCLAD UT | COLOR: PEWTER			PAULINE HABER: pauline.haber@stonhard.com	09 67 23
HVT1	AS INDICATED ON FINISH PLAN	HYBRID VINYL TILE	BENTLEY	STYLE: HYBRID VINYL TILE GUARDIAN SERIES | SIZE: 18"X18" | THICKNESS: 2.5MM | COLOR: 323			CHRISTY BENNETT; Christy.Bennett@bentleymills.com	
LVT1	AS INDICATED ON FINISH PLAN	LUXURY VINYL TILE	INTERFACE	STYLE: LEVEL SET COLLECTION NATURAL WOODGRAINS | COLOR: A00205 STORM | SIZE: 25CM X 1M | THICKNESS: 4.5MM		INSTALLATION: ASHLAR	KAY JACKSON; kay.jackson@interface.com	09 65 16
RF1	AS INDICATED ON FINISH PLAN	RUBBER SHEET	ECORE	STYLE: BASIC FIT | COLOR: EL06 RIPPING RED/GRAY | THICKNESS: 8MM			STEVEN C. NAUM; scnaum@ecoreintl.com	09 65 16
SC1	AS INDICATED ON FINISH PLAN	SEALED CONCRETE						
SDT1	AS INDICATED ON FINISH PLAN	STATIC DISSIPATIVE TILE	FORBO	STYLE: COLOREX SD | COLOR: MOONSTONE 150206 | SIZE: 24.4"X24.4" | THICKNESS: 0.08"			VERONICA GRIFFIN; veronica.griffin@forbo.com	09 65 36
TF1	TOILET ROOMS	PORCELAIN TILE FLOOR	DALTILE	STYLE: ILLUSIONIST | SIZE: 12"X24 | THICKNESS: 5/16" | COLOR: IL48 SMOKE	MATTE	1/8" EPOXY GROUT | COLOR: TBS | INSTALLATION: STRAIGHT STACK	MICHELE MILLER; michele.miller@daltile.com	09 30 00
TF2	LOWER/ UPPER LOBBY	TERRAZZO TILE	FLOORAZZO	STYLE: MARBLE COLOR SUITE | COLOR: TBS | SIZE: 24"X48" FUSION SYSTEM PANELS | 3/16" THK		INSTALLATION: BUTT JOINED TILE. REFER TO MANUFACTURER'S INSTRUCTIONS.	KING BOSTROM; king@kingbostrom.com	09 66 23
TF3	AS INDICATED ON FINISH PLAN	TERRAZZO TILE STAIR TREADS & RISERS	FLOORAZZO	STYLE: MARBLE COLOR SUITE | COLOR: TBS | SIZE: 24"X48" FUSION SYSTEM PANELS | 3/16" THK		PROVIDE CONTRASTING GRIT STRIPS	KING BOSTROM; king@kingbostrom.com	09 66 23
XF1	AS INDICATED ON FINISH PLAN	TURF	FIELD TURF	STYLE: FIT TURF | THICKNESS: TBD | COLOR: FIELD GREEN				09 62 53
BASES								
B1	GENERAL	RUBBER BASE	TARKETT/JOHNSONITE	STYLE: BASEWORKS THERMOSET RUBBER WALL BASE | COLOR: 20 CHARCOAL | 4"H			STEPHANI HARRIS; stephanie.harris@tarkett.com	09 65 13
IB1	CONCESSIONS	INTEGRAL BASE	STONHARD	STYLE AND COLOR TO COORDINATE WITH E1: 4"H			PAULINE HABER: pauline.haber@stonhard.com	09 67 23
MTB1	LOWER/ UPPER LOBBY	METAL BASE	FRY REGLET	STYLE: FLUSH BASE | COLOR:TBS | 4"H			STEPHANIE HARRIES; stephanie.harris@tarkett.com	09 65 13
TB1	TOILET ROOMS	TILE BASE	DALTILE	STYLE: ILLUSIONIST | SIZE: 12"X24 | THICKNESS: 5/16" | COLOR: IL48 SMOKE	MATTE	TILE TO BE CUT 4"H. CAP WITH METAL TRIM | 1/8" EPOXY GROUT | COLOR: TBS	MICHELE MILLER; michele.miller@daltile.com	09 30 00
WALLS								
DWG1	AS INDICATED ON FINISH PLAN	VINYL GRAPHIC	WOLF GORDON	CUSTOM DIGITAL VINYL GRAPHIC BY OWNER | DESIGN INTENT PROVIDED FOR REFERENCE ONLY. REFER TO SHEET A6.1.1. FINAL GRAPHIC IMAGE TO BE COORDINATED AND PROVIDED BY OWNER.	CDP 201	PROVIDE LEVEL 5 DRYWALL FINISH	MICHELLE HODGES, michelle.hodges@wolfgordon.com	09 72 00
DWG2	AS INDICATED ON FINISH PLAN	VINYL GRAPHIC	WOLF GORDON	CUSTOM DIGITAL VINYL GRAPHIC BY OWNER | DESIGN INTENT PROVIDED FOR REFERENCE ONLY. REFER TO SHEET A6.1.1. FINAL GRAPHIC IMAGE TO BE COORDINATED AND PROVIDED BY OWNER.	CDP 201	PROVIDE LEVEL 5 DRYWALL FINISH	MICHELLE HODGES, michelle.hodges@wolfgordon.com	09 72 00
DWG3	AS INDICATED ON FINISH PLAN	VINYL GRAPHIC	WOLF GORDON	CUSTOM DIGITAL VINYL GRAPHIC BY OWNER | DESIGN INTENT PROVIDED FOR REFERENCE ONLY. REFER TO SHEET A6.1.1. FINAL GRAPHIC IMAGE TO BE COORDINATED AND PROVIDED BY OWNER.	CDP 201	PROVIDE LEVEL 5 DRYWALL FINISH	MICHELLE HODGES, michelle.hodges@wolfgordon.com	09 72 00
DWG4	AS INDICATED ON FINISH PLAN	VINYL GRAPHIC	WOLF GORDON	CUSTOM DIGITAL VINYL GRAPHIC BY OWNER | DESIGN INTENT PROVIDED FOR REFERENCE ONLY. REFER TO SHEET A6.1.1. FINAL GRAPHIC IMAGE TO BE COORDINATED AND PROVIDED BY OWNER.	CDP 201	PROVIDE LEVEL 5 DRYWALL FINISH	MICHELLE HODGES, michelle.hodges@wolfgordon.com	09 72 00
DWG5	AS INDICATED ON FINISH PLAN	VINYL GRAPHIC	WOLF GORDON	CUSTOM DIGITAL VINYL GRAPHIC BY OWNER | DESIGN INTENT PROVIDED FOR REFERENCE ONLY. REFER TO SHEET A6.1.1. FINAL GRAPHIC IMAGE TO BE COORDINATED AND PROVIDED BY OWNER.	CDP 201	PROVIDE LEVEL 5 DRYWALL FINISH	MICHELLE HODGES, michelle.hodges@wolfgordon.com	09 72 00
DWG6	AS INDICATED ON FINISH PLAN	VINYL GRAPHIC	WOLF GORDON	CUSTOM DIGITAL VINYL GRAPHIC BY OWNER | DESIGN INTENT PROVIDED FOR REFERENCE ONLY. REFER TO SHEET A6.1.1. FINAL GRAPHIC IMAGE TO BE COORDINATED AND PROVIDED BY OWNER.	CDP 201	PROVIDE LEVEL 5 DRYWALL FINISH	MICHELLE HODGES, michelle.hodges@wolfgordon.com	09 72 00
DWG7	AS INDICATED ON FINISH PLAN	VINYL GRAPHIC	WOLF GORDON	CUSTOM DIGITAL VINYL GRAPHIC BY OWNER | DESIGN INTENT PROVIDED FOR REFERENCE ONLY. REFER TO SHEET A6.1.1. FINAL GRAPHIC IMAGE TO BE COORDINATED AND PROVIDED BY OWNER.	CDP 201	PROVIDE LEVEL 5 DRYWALL FINISH	MICHELLE HODGES, michelle.hodges@wolfgordon.com	09 72 00
DWG8	AS INDICATED ON FINISH PLAN	VINYL GRAPHIC	WOLF GORDON	CUSTOM DIGITAL VINYL GRAPHIC BY OWNER | DESIGN INTENT PROVIDED FOR REFERENCE ONLY. REFER TO SHEET A6.1.1. FINAL GRAPHIC IMAGE TO BE COORDINATED AND PROVIDED BY OWNER.	CDP 201	PROVIDE LEVEL 5 DRYWALL FINISH	MICHELLE HODGES, michelle.hodges@wolfgordon.com	09 72 00
DWG9	AS INDICATED ON FINISH PLAN	VINYL GRAPHIC	WOLF GORDON	CUSTOM DIGITAL VINYL GRAPHIC BY OWNER | DESIGN INTENT PROVIDED FOR REFERENCE ONLY. REFER TO SHEET A6.1.2. FINAL GRAPHIC IMAGE TO BE COORDINATED AND PROVIDED BY OWNER.	CDP 201	PROVIDE LEVEL 5 DRYWALL FINISH	MICHELLE HODGES, michelle.hodges@wolfgordon.com	09 72 00
DWG10	AS INDICATED ON FINISH PLAN	VINYL GRAPHIC	WOLF GORDON	CUSTOM DIGITAL VINYL GRAPHIC BY OWNER | DESIGN INTENT PROVIDED FOR REFERENCE ONLY. REFER TO SHEET A6.1.2. FINAL GRAPHIC IMAGE TO BE COORDINATED AND PROVIDED BY OWNER.	CDP 201	PROVIDE LEVEL 5 DRYWALL FINISH	MICHELLE HODGES, michelle.hodges@wolfgordon.com	09 72 00
DWG11	AS INDICATED ON FINISH PLAN	VINYL GRAPHIC	WOLF GORDON	CUSTOM DIGITAL VINYL GRAPHIC BY OWNER | DESIGN INTENT PROVIDED FOR REFERENCE ONLY. REFER TO SHEET A6.1.2. FINAL GRAPHIC IMAGE TO BE COORDINATED AND PROVIDED BY OWNER.	CDP 201	PROVIDE LEVEL 5 DRYWALL FINISH	MICHELLE HODGES, michelle.hodges@wolfgordon.com	09 72 00
DWG12	AS INDICATED ON FINISH PLAN	VINYL GRAPHIC	WOLF GORDON	CUSTOM DIGITAL VINYL GRAPHIC BY OWNER | DESIGN INTENT PROVIDED FOR REFERENCE ONLY. REFER TO SHEET A6.1.2. FINAL GRAPHIC IMAGE TO BE COORDINATED AND PROVIDED BY OWNER.	CDP 201	PROVIDE LEVEL 5 DRYWALL FINISH	MICHELLE HODGES, michelle.hodges@wolfgordon.com	09 72 00
DWG13	AS INDICATED ON FINISH PLAN	VINYL GRAPHIC	WOLF GORDON	CUSTOM DIGITAL VINYL GRAPHIC BY OWNER | DESIGN INTENT PROVIDED FOR REFERENCE ONLY. REFER TO SHEET A6.1.2. FINAL GRAPHIC IMAGE TO BE COORDINATED AND PROVIDED BY OWNER.	CDP 201	PROVIDE LEVEL 5 DRYWALL FINISH	MICHELLE HODGES, michelle.hodges@wolfgordon.com	09 72 00
DWG14	AS INDICATED ON FINISH PLAN	VINYL GRAPHIC	WOLF GORDON	CUSTOM DIGITAL VINYL GRAPHIC BY OWNER | DESIGN INTENT PROVIDED FOR REFERENCE ONLY. REFER TO SHEET A6.1.2. FINAL GRAPHIC IMAGE TO BE COORDINATED AND PROVIDED BY OWNER.	CDP 201	PROVIDE LEVEL 5 DRYWALL FINISH	MICHELLE HODGES, michelle.hodges@wolfgordon.com	09 72 00
DWG15	AS INDICATED ON FINISH PLAN	VINYL GRAPHIC	WOLF GORDON	CUSTOM DIGITAL VINYL GRAPHIC BY OWNER | DESIGN INTENT PROVIDED FOR REFERENCE ONLY. REFER TO SHEET A6.1.3. FINAL GRAPHIC IMAGE TO BE COORDINATED AND PROVIDED BY OWNER.	CDP 201	PROVIDE LEVEL 5 DRYWALL FINISH	MICHELLE HODGES, michelle.hodges@wolfgordon.com	09 72 00
DWG16	AS INDICATED ON FINISH PLAN	VINYL GRAPHIC	WOLF GORDON	CUSTOM DIGITAL VINYL GRAPHIC BY OWNER | DESIGN INTENT PROVIDED FOR REFERENCE ONLY. REFER TO SHEET A6.1.4. FINAL GRAPHIC IMAGE TO BE COORDINATED AND PROVIDED BY OWNER.	CDP 201	PROVIDE LEVEL 5 DRYWALL FINISH	MICHELLE HODGES, michelle.hodges@wolfgordon.com	09 72 00
EP1	AS INDICATED ON FINISH PLAN	EPOXY PAINT	SHERWIN WILLIAMS	COLOR: SW7004 SNOWBOUND	EGGSHELL		RUSSELL HANSEN; russell.hansen@sherwin.com	09 91 23
EP2	AS INDICATED ON FINISH PLAN	EPOXY PAINT	SHERWIN WILLIAMS	COLOR: CUSTOM TO MATCH PANTONE 186 C	EGGSHELL		RUSSELL HANSEN; russell.hansen@sherwin.com	09 91 23
EP3	AS INDICATED	EPOXY PAINT	SHERWIN WILLIAMS	COLOR: SW7075 WEB GRAY	EGGSHELL		RUSSELL HANSEN; russell.hansen@sherwin.com	09 91 23
PT1	AS INDICATED ON FINISH PLAN	INTERIOR LATEX PAINT	SHERWIN WILLIAMS	COLOR: SW7004 SNOWBOUND	EGGSHELL		RUSSELL HANSEN; russell.hansen@sherwin.com	09 91 23
PT2	AS INDICATED ON FINISH PLAN	INTERIOR LATEX PAINT (ACCENT)	SHERWIN WILLIAMS	COLOR: CUSTOM TO MATCH PANTONE 186 C	EGGSHELL		RUSSELL HANSEN; russell.hansen@sherwin.com	09 91 23
PT3	AS INDICATED ON FINISH PLAN	INTERIOR LATEX PAINT (ACCENT)	SHERWIN WILLIAMS	COLOR: SW7075 WEB GRAY	EGGSHELL		RUSSELL HANSEN; russell.hansen@sherwin.com	09 91 23
TW1	TOILET ROOMS	PORCELAIN WALL TILE	DALTILE	STYLE: PURE | SIZE: 12"X12" | THICKNESS: 5/16" | COLOR: PU20 FROST WHITE | INSTALLATION: STRAIGHT STACK	MATTE	1/8" EPOXY GROUT | COLOR: TBS	MICHELE MILLER; michele.miller@daltile.com	09 30 00
TW2	TOILET ROOMS	CERAMIC WALL TILE	DALTILE	STYLE: SHOWSCAPE REVERSE DOT | SIZE 12"X24" | THICKNESS: 3/8" | COLOR: SH17 CURRANT | INSTALLATION: STRAIGHT STACK	GLOSSY	1/16" EPOXY GROUT | COLOR: TBS	MICHELE MILLER; michele.miller@daltile.com	09 30 00
TW3	AS INDICATED ON FINISH PLAN	CERAMIC WALL TILE	DALTILE	STYLE: SHOWSCAPE REVERSE DOT | SIZE 12"X24" | THICKNESS: 3/8" | COLOR: SH09 STYLISH WHITE | INSTALLATION: STRAIGHT STACK	MATTE		MICHELE MILLER; michele.miller@daltile.com	09 30 00
CEILINGS								
A1	AS INDICATED ON FINISH PLAN & RCP	ACOUSTICAL CEILING	ARMSTRONG	STYLE: #1910 ULTIMA SQUARE LAY-IN | SIZE: 24"X24"X3/4" THICK | COLOR: WHITE		TO BE INSTALLED WITH ARMSTRONG 15/16" GRID		09 51 13
A2	AS INDICATED ON FINISH PLAN & RCP	ACOUSTICAL CEILING	ARMSTRONG	STYLE: KITCHEN ZONE SQUARE LAY-IN | SIZE: 24" X 24" X 5/8" THK | COLOR: WHITE		TO BE INSTALLED WITH ARMSTRONG 15/16" GRID		09 51 13
CP1	AS INDICATED ON FINISH PLAN	CEILING PAINT	SHERWIN WILLIAMS	COLOR: SW7007 CEILING BRIGHT WHITE	FLAT		RUSSELL HANSEN; russell.hansen@sherwin.com	09 91 23
CP2	AS INDICATED ON FINISH PLAN	CEILING PAINT	SHERWIN WILLIAMS	COLOR: SW7075 WEB GRAY	FLAT		RUSSELL HANSEN; russell.hansen@sherwin.com	09 91 23
EXP1	AS INDICATED	EXPOSED TO STRUCTURE PAINTED DRYWALL SYSTEM	SHERWIN WILLIAMS	COLOR: SW7004 SNOWBOUND	FLAT		RUSSELL HANSEN; russell.hansen@sherwin.com	09 91 23
EXP2	PLAYER'S LOUNGE	EXPOSED TO STRUCTURE PAINTED DRYWALL SYSTEM	SHERWIN WILLIAMS	COLOR: SW7075 WEB GRAY	FLAT		RUSSELL HANSEN; russell.hansen@sherwin.com	09 91 23
XC1	AS INDICATED ON FINISH PLAN	ACOUSTICAL CEILING BAFFLE	FILZFELT	STYLE: AKUSTIKA 25 BAFFLE | COLOR: 427 STEIN | THICKNESS: 1-1/4"			JANET PELCZYNSKI; jpelczynski@spinneybeck.com	09 84 13

EWING COLE

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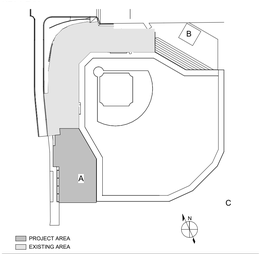
SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



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GEORGE BUSHEY

EWINGCOLE, INC. REGISTERED ENGINEERING CORPORATION 52711 NORTH CAROLINA RALEIGH, NC

JASON C. KOLLROS REGISTERED 11036 NORTH CAROLINA PROFESSIONAL ENGINEER CHARLOTTE, NC

9/3/2024

REVISIONS

NO.	BY	DESCRIPTION	DATE

NC STATE UNIVERSITY

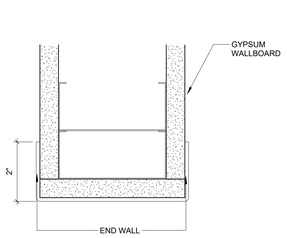
DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY SH, LH DATE 09/03/2024
PROJECT NO. 20220400 SCALE
DRAWING NAME
FINISH SCHEDULE

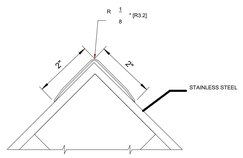
FLOOR/SECTION PHASE DRAWING NO.
BID IG.1

INTERIOR FINISH SCHEDULE Copy 1

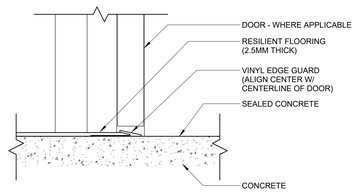
CODE	LOCATION	TYPE	MANUFACTURER	STYLE/COLOR	FINISH	NOTES	CONTACT	SPECIFICATION SECTION
SURFACES								
L1	AS INDICATED ON FINISH PLAN	PLASTIC LAMINATE	WILSONART	COLOR: DESIGNER WHITE D354-60	MATTE		APRIL BRICKLE; brickla@wilsonart.com	06 41 00
L2	AS INDICATED	HPL LAMINATE	WILSONART	STYLE:SOLICOR | COLOR: DESIGNER WHITE D354-60	MATTE		APRIL BRICKLE; brickla@wilsonart.com	06 41 00
L3	AS INDICATED ON FINISH PLAN	HPL LAMINATE	WILSONART	COLOR: ASIAN NIGHT 7949K-18 | AEON SCRATCH RESISTANCE	LINEARITY FINISH		APRIL BRICKLE; brickla@wilsonart.com	06 41 00
MT1	AS INDICATED	METAL PANEL	MOZ	CLASSIC METAL COLLECTION | THICKNESS: 0.040 INCH ALUMINUM | COLOR: ELECTRIC RED | GRAIN FOG | FINISH: POLYCOAT GLOSS			DAN LURIE; dan@danlurieassociates.com	05 70 00
MT2	AS INDICATED	METAL PANEL	MOZ	PERFORATED METAL COLLECTION | 1/4" DIAMETER - 3/8"STG CTRS | COLOR: BLACK SAND POWDER COAT			DAN LURIE; dan@danlurieassociates.com	05 70 00
SS1	AS INDICATED ON FINISH PLAN	SOLID SURFACE	CORIAN	CARBON AGGREGATE			BARBARA DAVIS: BDavis@hllmark.com	06 42 00
SS2	AS INDICATED ON FINISH PLAN	SOLID SURFACE	CORIAN	RAIN CLOUD			BARBARA DAVIS: BDavis@hllmark.com	06 42 00
WALL PROTECTION								
CG1	AS INDICATED	CORNER GUARD	INPRO	SUFACE MOUNTED STAINLESS STEEL CORNER GUARD | WING SIZE: 2" WIDE X 8' TALL	#4 BRUSHED FINISH			10 26 00
CG2	AS INDICATED	END GUARD	INPRO	SURFACE MOUNT STAINLESS STEEL END WALL PROTECTOR | WING SIZE: 2" WIDE	#4 BRUSHED FINISH			10 26 00
WP1	AS INDICATED	SEMI-REGID PVC SHEET/ WALL PROTECTION	ALTRO	STYLE: PURAGUARD | COLOR: SEA SALT | SIZE: 4'X10'X 0.8"THK	GLOSS		EDDIE RUMSEY: erumsey@altro.com	10 26 00
WP2	AS INDICATED	WALL PROTECTION	WOLF GORDON	COLLECTION: RAMPART | STYLE: TAMARA | COLOR: JET | WIDTH: 52"			MICHELLE HODGES, michelle.hodges@wolfgordon.com	09 72 00
MISCELLANEOUS								
MTL1	AS INDICATED	METAL TRIM	SCHLUTER SYSTEMS	QUADEC Q-60-AT: SATIN NICKEL ANODIZED ALUMINUM				
SWR1	SHOWERS	SHOWER CURTAIN	INPRO	STYLE: CHALET | COLOR: SNOW		PROVIDE MOUNTING HARDWARE AND ACCESSORIES PER SPECIFICATION		10 21 23
TP1	AS INDICATED ON FINISH PLAN	TOILET PARTITIONS	BOBRICK	STYLE: DURALINE SERIES GCL | MOUNTING: FLOOR-ANCHORED | COLOR: CHARCOAL 0077-FH		PROVIDE MOUNTING HARDWARE AND ACCESSORIES PER SPECIFICATION		10 21 13
TP2	AS INDICATED	SHOWER PARTITIONS	BOBRICK	SOLID PHENOLIC CORE | COLOR: TBS		PROVIDE MOUNTING HARDWARE AND ACCESSORIES PER SPECIFICATION		10 21 13
TP3	AS INDICATED	URINAL SCREEN PARTITIONS	BOBRICK	STYLE: DURALINE SERIES GCL | MOUNTING: WALL-HUNG | COLOR: CHARCOAL 0077-FH		PROVIDE MOUNTING HARDWARE AND ACCESSORIES PER SPECIFICATION		10 21 13
WS1	AS INDICATED	MANUAL WINDOW SHADES	MECHOSHADES	MANUAL SINGLE ROLLER SHADE | URBANSHADE SERIES | | ECOVEIL SHADE 1550 SYSTEM, 3% OPENNESS, COLOR: GREY 1563				12 24 13
WS2	AS INDICATED	MOTORIZED WINDOW SHADES	MECHOSHADE	MOTOIZED SINGLE ROLLER SHADE | URBANSHADE SERIES | | ECOVEIL SHADE 1550 SYSTEM, 3% OPENNESS, COLOR: GREY 1563				12 24 13
DECORATIVE GLAZING								
WF1	AS INDICATED ON FINISH PLAN	WINDOW FILM	DESIGNTEX/3M	COLLECTION: FASARA | PATTERN: SH2FGMI-S MIST GRADATION | WIDTH: 6O INCHES | LENGHT: 98.4 FT | COLOR: TBD		PATTERN TO BE COORDINATED WITH OWNER		08 87 00



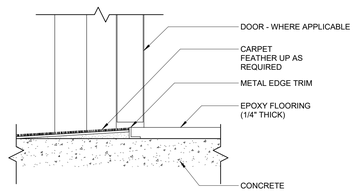
12 END WALL GUARD DETAIL (CG2)
SCALE: 6" = 1'-0"



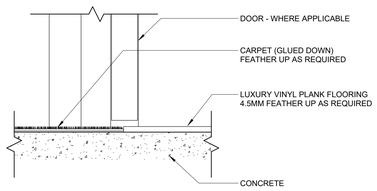
11 CORNER GUARD DETAIL (CG1)
SCALE: 6" = 1'-0"



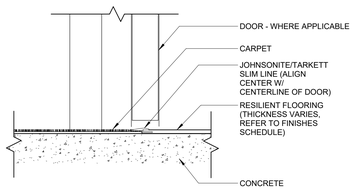
10 HYBRID VINYL TILE (HVT) TO SEALED CONCRETE (SC)
SCALE: 3" = 1'-0"



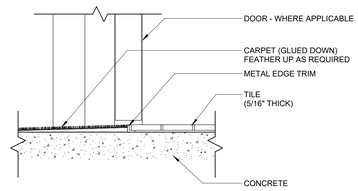
9 CARPET (CPT) TO EPOXY FLOORING (E)
SCALE: 3" = 1'-0"



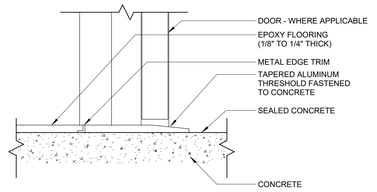
8 CARPET (CPT) TO LUXURY VINYL TILE (LVT)
SCALE: 3" = 1'-0"



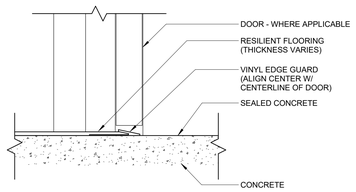
7 CARPET (CPT) TO RESILIENT (RF)
SCALE: 3" = 1'-0"



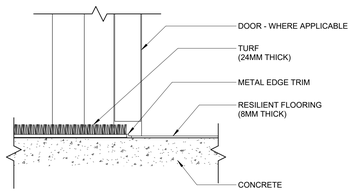
6 CARPET (CPT) TO TILE (TF)
SCALE: 3" = 1'-0"



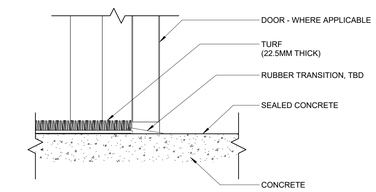
5 EPOXY FLOORING (E) TO SEALED CONCRETE (SC)
SCALE: 3" = 1'-0"



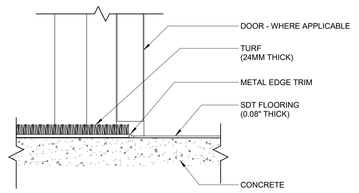
4 RESILIENT (RF) TO SEALED CONCRETE (SC)
SCALE: 3" = 1'-0"



3 TURF (XF) TO RESILIENT FLOORING (RF)
SCALE: 3" = 1'-0"



2 TURF (XF) TO SEALED CONCRETE (SC)
SCALE: 3" = 1'-0"



1 TURF (XF) TO STATIC DISSIPATIVE TILE (SDT)
SCALE: 3" = 1'-0"

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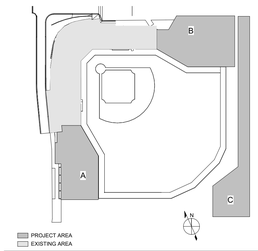
SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



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JASON C. ROLLINS REGISTERED LANDSCAPE ARCHITECT 11036 NORTH CAROLINA CHARLOTTE, NC 7/3/2024

REVISIONS

NO.	BY	DESCRIPTION	DATE

NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	SH/ LH	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	As indicated

DRAWING NAME

FINISH SCHEDULE, TRANSITION DETAILS AND FINISH DETAILS

FLOOR/SECTION PHASE	DRAWING NO.
BID	IG.2

STRUCTURAL ABBREVIATIONS

AB	ANCHOR BOLT	GB	GRADE BEAM	PT	PRESSURE TREATED
ACI	AMERICAN CONCRETE INSTITUTE	GA.	GAGE; GAUGE	PTI	POST-TENSIONING INSTITUTE
		GALV.	GALVANIZED	PVC	POLYVINYL CHLORIDE
AFF.	ABOVE FINISHED FLOOR				
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	HM	HOLLOW METAL	R	RADIUS
		HS	HIGH STRENGTH	RD	ROOF DRAIN
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION	HEX. HD.	HEXAGONAL HEAD	RAD.	RADIUS
		HSS	HOLLOW STRUCTURAL SHAPE	REF.	REFERENCE
		HT.	HEIGHT	REINF.	REINFORCE(D); REINFORCING
ALT.	ALTERNATE			REM.	REMAINING; REMAINDER
ARCH.	ARCHITECTURAL	ID	INSIDE DIAMETER	REQ'D.	REQUIRED
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	I.F.	INSIDE FACE		
		IN.	INCH;INCHES	SJ	SAWED JOINT
AVG.	AVERAGE	IBC	INTERNATIONAL BUILDING CODE	S.S.	STAINLESS STEEL
AWS	AMERICAN WELDING SOCIETY	INT.	INTERIOR;INTERSECTION	SW	SHORT WAY
				SCHED.	SCHEDULE
BLDG.	BUILDING	JST.	JOIST	SECT.	SECTION
BM	BEAM	JT.	JOINT	SHT.	SHEET
BP	BEARING PLATE;BASE PLATE			SIM.	SIMILAR
BRG.	BEARING	K or k	KIP (1,000 LBS.)	SJI	STEEL JOIST INSTITUTE
		K/FT	KIPS PER FOOT	SLBB	SHORT LEGS BACK TO BACK
CJ	CONSTRUCTION JOINT	LLBB	LONG LEGS BACK TO BACK	SLO	SHORT LEG OUTSTANDING
CJP	COMPLETE JOINT PENETRATION	LLH	LONG LEG HORIZONTAL	SOG	SLAB ON GRADE
CMU	CONCRETE MASONRY UNIT	LLO	LONG LEG OUTSTANDING	SPEC(S).	SPECIFICATION(S)
CGS	CENTER OF GRAVITY OF STEEL	LLV	LONG LEG VERTICAL	SQ.	SQUARE
CL.	CENTERLINE	LW	LONG WAY	STD.	STANDARD
CLG.	CEILING	LB.	POUND	STL.	STEEL
CLR.	CLEAR	LG.	LONG	STRUCT.	STRUCTURAL
COL.	COLUMN	LIN.	LINEAR	SYM.	SYMMETRICAL
CONC.	CONCRETE	LL	LIVE LOAD		
CONN.	CONNECTION	LT. WT.	LIGHT WEIGHT	TOC	TOP OF CONCRETE
CONST.	CONSTRUCTION			TOF	TOP OF FOOTING
CONT.	CONTINUOUS	MOS	MIDDLE OF SLAB	TOS	TOP OF SLAB; TOP OF STEEL
CRSI	CONCRETE REINFORCING STEEL INSTITUTE	MOW	MIDDLE OF WALL	TOW	TOP OF WALL
		MATL.	MATERIAL	T&B	TOP AND BOTTOM
CTR.	CENTER	MAX.	MAXIMUM	TEMP.	TEMPORARY
		MIN.	MINIMUM	THRU	THROUGH
DCJ	DOWELED CONTROL JOINT	MISC.	MISCELLANEOUS	TYP.	TYPICAL
DJ	DOUBLE JOIST	MK	MARK		
DS	DOWN SPOUT			U.L.	UNDERWRITERS LABORATORIES
DBL.	DOUBLE	N/A	NOT APPLICABLE	UNO	UNLESS NOTED OTHERWISE
DET.	DETAIL	N.F.	NEAR FACE		
DIA.	DIAMETER	NIC	NOT IN CONTRACT	W/O	WITHOUT
DIAG.	DIAGONAL	NTS	NOT TO SCALE	W/	WITH
DIM.	DIMENSION	N-S	NORTH-SOUTH	WM	WOLMANIZED
DL	DEAD LOAD	NCSBC	NORTH CAROLINA STATE BUILDING CODE	WP	WORKING POINT
DN	DOWN			WWF	WELDED WIRE FABRIC
DWG(S).	DRAWING(S)	NO.	NUMBER		
		NOM.	NOMINAL	x	BY
E.F.	EACH FACE				
E.S.	EACH SIDE	O/C	ON CENTER		
E.W.	EACH WAY	OD	OUTSIDE DIAMETER		
E-W	EAST-WEST	O.F.	OUTSIDE FACE		
EA.	EACH	OPNG.	OPENING		
ELEV.	ELEVATION; ELEVATOR	OPP.	OPPOSITE		
ENGR.	ENGINEER	OH	OPPOSITE HAND		
EQ.	EQUAL	ORIG.	ORIGINAL		
EXIST.	EXISTING				
EXP. JT.	EXPANSION JOINT	P/S	PRESTRESSED		
EXT.	EXTERIOR	P/T	POST-TENSIONING		
		PC.	PRECAST CONCRETE		
FD	FLOOR DRAIN	PCI	PRESTRESSED CONCRETE INSTITUTE		
FF	FAR FACE				
FDN.	FOUNDATION	PEN.	PENETRATION		
FIN.	FINISH	PERP.	PERPENDICULAR		
FL.	FLOOR	PJP	PARTIAL JOINT PENTRATION		
FLG.	FLANGE	PL	PLATE		
FOB	FACE OF BRICK	PSF	POUNDS PER SQUARE FOOT		
FT.	FOOT; FEET	PSI	POUNDS PER SQUARE INCH		
FTG.	FOOTING				

MATERIALS AND SYMBOLS LEGEND

PLAN SYMBOLS

- TOP OF CONC. (TOC) OR DECK ELEVATION
- SPOT ELEVATION: WORKING POINT (WP)
- NOTE MARKER (SEE NOTES)
- CONNECTION TYPE
- COLUMN DESIGNATION (SEE SCHEDULE)
- REPAIR TYPE
- REVISION MARK

MATERIALS

- BRICK (SECTION)
- BRICK (ELEVATION)
- CONCRETE (SECTION)
- CMU (SECTION)
- CMU (ELEVATION)
- DEPRESSED SLAB AREA ("DEPTH")
- EARTH/SOIL
- FILL GROUT
- INSULATION (RIGID)
- INSULATION (BATT)
- PLYWOOD (LARGE SCALE)
- STEEL
- STONE FILL
- WOOD (FINISH)
- WOOD (ROUGH)
- PRECAST CONC.

SCHEDULED ITEMS

B...	COLUMN BASE PLATE
BP...	BEAM BEARING PLATE
C...	COLUMN
CB...	CONCRETE BEAM
CG...	CONCRETE GIRDER
CJ...	CONCRETE JOIST
CP...	CONCRETE PIER
DP...	DRILLED PIER
F....	SPREAD FOOTING
GB...	GRADE BEAM
L...	LINTEL
MF...	MAT FOOTING
MP...	MASONRY PIER
PC...	PILE CAP
PTB...	POST-TENSIONED CONC. BEAM
PTS...	POST-TENSIONED CONC. SLAB
S...	ELEVATED SLAB
SG...	SLAB-ON-GRADE
WF...	WALL FOOTING
WR....	RETAINING WALL FOOTING

VIEW SYMBOLS

- SECTION NUMBER
- SECTION NOTE: (SIM., O.H. ETC.)
- SHEET WHERE SECTION IS DRAWN
- INDICATES DIRECTION OF VIEW
- ELEVATION NUMBER
- SHEET WHERE ELEVATION IS DRAWN
- INDICATES DIRECTION OF VIEW
- DETAIL NUMBER
- DETAIL NOTE: (SIM., O.H. ETC.)
- SHEET WHERE DETAIL IS DRAWN
- INDICATES AREA SHOWN IN DETAIL

COLUMN GRID DESIGNATION

- NEW
- EXISTING

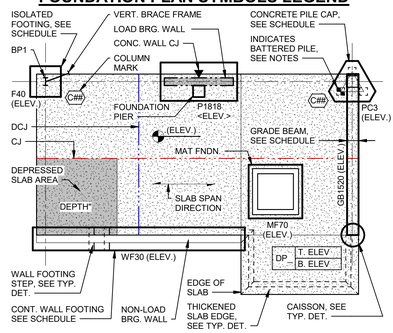
SYMBOLS WITHIN TEXT

≈	APPROX. EQUAL
∠	ANGLE
℄	CENTERLINE
Δ	DELTA
≡	IDENTITY/EXACTLY EQUAL
≠	NOT EQUAL
#	NUMBER
Ω	OHM / OMEGA

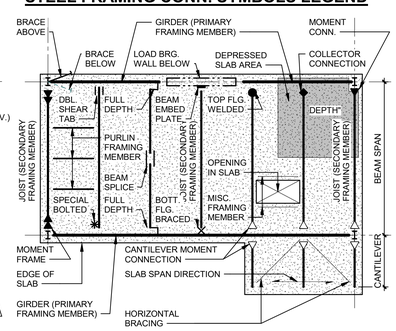
SYMBOLS WITHIN NUMBERS

#³	CUBED
°	DEGREE(S)
∅	DIAMETER
±	PLUS/MINUS
#²	SQUARED

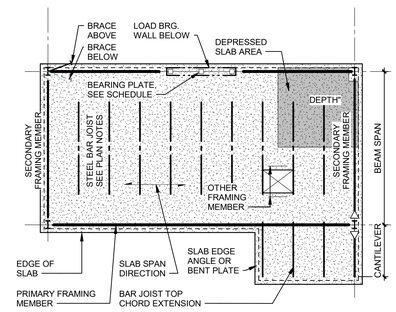
FOUNDATION PLAN SYMBOLS LEGEND



STEEL FRAMING CONN. SYMBOLS LEGEND



JOISTS FRAMING SYMBOLS LEGEND



DRAWING INDEX

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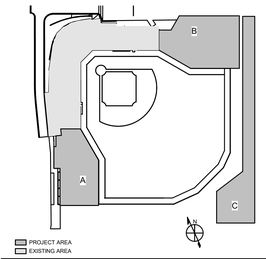
Printed:

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
AARON B. BOPP
PROJECT MANAGER
AARON B. BOPP

REVISIONS

NO.	BY	DESCRIPTION	DATE
	KAT	ISSUE FOR BID	09/03/3024
2	KAT	FINAL DOCUMENT 2	08/12/2024
1	KAT	FINAL DOCUMENTS	07/19/2024
	KAT	CONSTRUCTION DOCUMENTS	04/26/2024
	KAT	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/29/2024

NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT
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DRAWN BY	KAT	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	As indicated

DRAWING NAME

ABBREVIATIONS, DRAWING LEGENDS AND SHEET INDEX

FLOOR/SECTION	PHASE	DRAWING NO.
	BID	S1.1

ANCHORS & FASTENERS

1. GENERAL:

   A. ALL ANCHOR AND FASTENER PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS BY PERSONNEL CERTIFIED BY THE MANUFACTURER IN THE USE OF THE PRODUCTS BEING INSTALLED. SUBMIT CERTIFICATION DOCUMENTS.
   B. SEE DRAWINGS AND SPECIFICATIONS FOR SPECIFIC ANCHOR AND FASTENER REQUIREMENTS.
   C. PRODUCT DATA SHALL BE SUBMITTED AND APPROVED PRIOR TO INSTALLATION.
   D. WHERE THE MANUFACTURER IS IDENTIFIED IN THE CONTRACT DOCUMENTS, IT IS PROVIDED AS THE PERFORMANCE STANDARD FOR THE ANCHOR OR FASTENER PRODUCT. ALTERNATE PRODUCTS MAY BE SUBMITTED FOR APPROVAL AND MUST PROVIDE AT LEAST THE SAME PERFORMANCE FOR THE DETAILED INSTALLATION AS THE REFERENCED PRODUCT.
   E. DAMAGE TO EXISTING MATERIALS DUE TO ANCHOR INSTALLATION SHALL BE REPAIRED USING PROCEDURES AND MATERIALS APPROVED BY THE ENGINEER.

2. ANCHORAGE IN CONCRETE:

   A. THE SUITABILITY OF POST-INSTALLED EXPANSION AND UNDER-CUT ANCHORS FOR USE IN CONCRETE SHALL HAVE BEEN DEMONSTRATED BY THE ACI 355.2 PREQUALIFICATION TESTS.
   B. THE INSTALLATION OF ANCHORS IN HARDENED CONCRETE SHALL NOT DAMAGE THE SURROUNDING CONCRETE OR ANYTHING EMBEDDED IN THE CONCRETE. PRIOR TO DRILLING FOR ANCHOR INSTALLATION, LOCATE MATERIALS EMBEDDED IN THE CONCRETE USING NON-DESTRUCTIVE METHODS. ADJUST ANCHOR LOCATIONS TO AVOID EMBEDDED MATERIALS. SUBMIT POSITIONS OF RELOCATED ANCHORS TO ENGINEER FOR APPROVAL PRIOR TO DRILLING. PRE-DRILL PROBE HOLES USING A SMALL DIAMETER DRILL BIT AT FINAL ANCHOR LOCATION TO CONFIRM A CLEAR DRILLING PATH.
   C. ADHESIVE ANCHORS SHALL BE INSTALLED PER THESE NOTES AND PER TYPICAL DETAILS.
   D. UNLESS OTHERWISE NOTED, ANCHORAGE IN NEW POST-TENSIONED CONCRETE CONSTRUCTION SHALL BE MADE USING ANCHOR INSERTS PLACED IN THE FORMWORK PRIOR TO CONCRETE PLACEMENT.

ADHESIVE ANCHOR INSTALLATION NOTES

1. THREADED RODS SHALL BE ASTM A193, GRADE B7, UNLESS NOTED OTHERWISE.

2. ALL SURFACES WHICH WILL CONTACT ADHESIVE SHALL BE CLEAN AND FREE OF OIL OR GREASE.

3. ACCURATELY MARK THE SURFACE THAT WILL RECEIVE THE NEW ANCHORS WITH THE LOCATION SHOWN IN THE CONNECTION DETAIL.

4. DRILL HOLES USING EQUIPMENT AND PROCEDURES SPECIFIED BY THE ADHESIVE MANUFACTURER. HOLES SHALL BE DRILLED AT A 90 DEGREE ANGLE FROM FACE OF THE MEMBER.

5. HOLES SHALL BE THOROUGHLY CLEANED OF ALL DUST, LOOSE PARTICLES, AND OTHER BOND INHIBITING MATERIALS. BLOW HOLES CLEAN USING OIL-FREE COMPRESSED AIR. CLEAN EACH HOLE WITH A BRUSH AND REPEAT CLEANING WITH COMPRESSED AIR.

6. STORE, HANDLE, MIX, AND INSTALL ADHESIVE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED SPECIFICATIONS AND INSTRUCTIONS, AND THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

   A. ANCHORS SET IN SOLID MATERIAL SHALL USE ONE OF THE FOLLOWING ADHESIVE MATERIALS:
      1, HILTI HIT-RE 500 V3 EPOXY
      2. SIMPSON SET-XP EPOXY
      3. DEWALT PURE110+ EPOXY

   A. ANCHORS SET IN HOLLOW MATERIAL SHALL USE ONE OF THE FOLLOWING ADHESIVE MATERIALS AND THE MANUFACTURER'S CORRESPONDING SCREEN TUBE INSERT:
      1. HILTI HIT-HY 70
      2. SIMPSON SET-XP EPOXY
      3. DEWALT AC100+ GOLD

1. INJECT THE PREPARED ADHESIVE INTO HOLE (OR SCREEN TUBE) PER MANUFACTURER'S INSTRUCTIONS. SLOWLY INSERT THE ANCHOR INTO THE HOLE IN ONE CONTINUOUS STROKE WHILE ROTATING ONE FULL REVOLUTION. THE ANCHOR SHALL NOT BE MOVED BACK AND FORTH, AS THIS WILL ENTRAP AIR, AS DOES EXCESSIVE ROTATION. INJECT ADDITIONAL ADHESIVE AS REQUIRED TO FILL VOID AROUND ANCHOR.

2. EXCESSIVE HEAT WILL DAMAGE THE ADHESIVE MATERIAL. PROTECT ADHESIVE FROM HEAT OF CUTTING AND WELDING.

3. DO NOT INSTALL NUTS AND WASHERS ON THREADED ROD ANCHORS UNTIL ADHESIVE IS FULLY CURED PER MANUFACTURER'S INSTRUCTIONS. TORQUE NUT PER THE MANUFACTURER'S INSTRUCTIONS, BUT DO NOT EXCEED THE MAXIMUM RECOMMENDED TORQUE.

4. AFTER ADHESIVE HAS FULLY CURED, INSTALL WASHERS AND NUTS ON THREADED ROD ANCHORS AS REQUIRED AND TIGHTEN EACH NUT. DO NOT EXCEED THE MAX. TORQUE SPECIFIED BY THE ADHESIVE MANUFACTURER. ALL NUTS SHALL BE RETORQUED WITHIN 24 TO 72 HOURS AFTER INITIAL TORQUING. DO NOT TORQUE NUTS NOTED TO BE FINGER TIGHT.

CONCRETE

1. CONCRETE SHALL BE NORMAL WEIGHT CONCRETE UNLESS NOTED OTHERWISE. CONCRETE SHALL HAVE THE FOLLOWING MINIMUM 28-DAY COMPRESSIVE STRENGTHS UNLESS NOTED OTHERWISE IN THE PLANS OR SPECIFICATIONS.

DRILLED PIERS	4000 PSI
FOOTINGS AND PIERS	3000 PSI
GRADE BEAMS AND FOUNDATION WALLS	5000 PSI
SLABS ON GRADE	4000 PSI
ELEVATED SLABS ON STEEL DECK	4500 PSI
FORMED ELEVATED SLABS	4000 PSI
MASONRY GROUT FILL	3000 PSI
PERMANENTLY EXTERIOR EXPOSED CONCRETE	4000 PSI
ALL OTHER CONCRETE	4000 PSI

2. CONCRETE PERMANENTLY EXPOSED TO WEATHER SHALL HAVE A MAXIMUM WATER/CEMENT RATIO OF 0.45 AND SHALL CONTAIN APPROXIMATELY 6% ENTRAINED AIR. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS.

3. CONCRETE SHALL BE BATCHED USING MATERIALS AND PROPORTIONS DESIGNATED IN THE APPROVED DESIGN MIXES. THE GENERAL CONTRACTOR SHALL PROVIDE QUALITY CONTROL OF THE CONCRETE MIX.

4. CONCRETE SLUMP SHALL BE AS INDICATED IN THE SPECIFICATIONS.

5. THE ADDITION OF WATER TO INCREASE SLUMPS ABOVE THE LEVEL SPECIFIED OR TO RETEMPER CONCRETE WHICH HAS EXPERIENCED SLUMP LOSS DUE TO EXCESSIVE MIXING OR HEAT BUILD-UP IS NOT PERMITTED.

6. CONCRETE SHALL BE HANDLED, PLACED, AND CONSOLIDATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS.

7. SEE SPECIFICATIONS FOR CURING AND HOT AND COLD WEATHER REQUIREMENTS FOR CONCRETE.

8. PROVIDE PRE-MOLDED EXPANSION-JOINT FILLER AT EDGES OF SLABS ON GRADE AGAINST VERTICAL SURFACES UNLESS NOTED OTHERWISE.

9. DOWELS FROM FOOTINGS SHALL BE ACCURATELY LOCATED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF THE CONCRETE. PLACEMENT OF DOWELS IN FRESH CONCRETE AFTER THE CONCRETE HAS BEEN PLACED WILL NOT BE PERMITTED. USE TEMPLATES FOR THE PLACEMENT OF DOWELS IN COLUMNS AND SHEAR WALLS.

10. THE CONTRACTOR SHALL USE INSTRUMENTS TO MAINTAIN A CONTINUOUS CHECK OF THE ELEVATIONS OF THE TOP SURFACES OF SLABS DURING THE PLACEMENT AND FINISHING OF THE CONCRETE. ADJUSTMENTS SHALL BE MADE TO MAINTAIN THE SURFACES WITHIN THE SPECIFIED TOLERANCES.

11. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL ANCHOR BOLTS, CLIPS, INSERTS, SLEEVES AND OTHER REQUIRED ITEMS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND IN COOPERATION WITH OTHER TRADES PRIOR TO THE PLACING OF CONCRETE.

12. CONCRETE FORMWORK SHALL NOT BE REMOVED UNTIL CONCRETE HAS REACHED SUFFICIENT STRENGTH TO NOT BE DAMAGED BY FORMWORK REMOVAL. SEE ALSO SPECIFICATIONS.

CONSTRUCTION

1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PROTECTION OF PERSONS AND PROPERTY EITHER ON OR ADJACENT TO THE PROJECT AND SHALL PROTECT SAME AGAINST INJURY, DAMAGE, OR LOSS.

2. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL SAFETY REGULATIONS, PROGRAMS, AND PRECAUTIONS RELATED TO ALL WORK ON THIS PROJECT. SAFETY REGULATIONS SHALL BE STRICTLY FOLLOWED AT ALL TIMES.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIALS IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.

4. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH NEW WORK IN AREAS AFFECTED BY EXISTING CONDITIONS. THE DESIGNER SHALL BE INFORMED IN WRITING OF CONFLICTS BETWEEN EXISTING AND PROPOSED NEW CONSTRUCTION.

5. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION, AND ANY TEMPORARY BRACING OR SUPPORT REQUIRED TO ACCOMMODATE THE CONTRACTOR'S MEANS AND METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

6. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED ON NEW AND/OR EXISTING STRUCTURES. SUCH LOADS SHALL NOT EXCEED THE CAPACITY OF THE STRUCTURE AT ANY TIME.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGNING, FURNISHING, ERECTING, AND REMOVING ANY SHORING AND BRACING REQUIRED DURING CONSTRUCTION, INCLUDING BRACING REQUIRED FOR SIDES OF EXCAVATIONS DURING FOUNDATION CONSTRUCTION AND TEMPORARY BRACING FOR WALLS.

CONSTRUCTION CONT.

8. THE CONTRACTOR SHALL INFORM THE DESIGNER, IN WRITING, OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR SUCH DEVIATION BY VIRTUE OF THE DESIGNER'S REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC. UNLESS THE CONTRACTOR HAS SPECIFICALLY INFORMED THE DESIGNER OF SUCH DEVIATION AT TIME OF SUBMISSION, AND THE DESIGNER HAS GIVEN WRITTEN APPROVAL FOR THE SPECIFIC DEVIATION.

9. NO OPENINGS NOR ANY CHANGES IN SIZE, DIMENSION OR LOCATION SHALL BE MADE IN ANY STRUCTURAL ELEMENTS WITHOUT WRITTEN APPROVAL OF THE DESIGNER.

10. WHERE CONSTRUCTION TOLERANCES ALLOW FOR VARIATIONS IN LOCATION, SIZE, ETC. OF STRUCTURAL ELEMENTS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL MATERIALS AND LABOR NECESSARY TO MODIFY CONNECTION ELEMENTS AS REQUIRED TO PROVIDE A FINISHED PRODUCT WHICH IS IN ACCORDANCE WITH THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. ANY SUCH MODIFICATIONS REQUIRED SHALL BE REVIEWED AND APPROVED BY THE DESIGNER PRIOR TO EXECUTION.

11. THE DESIGNER SHALL BE NOTIFIED AT THE PROPER TIME WHEN ITEMS ARE READY FOR FIELD REVIEW. SUFFICIENT NOTICE SHALL BE GIVEN TO ALLOW SCHEDULING OF THE FIELD REVIEW.

DRAWINGS & COORDINATION

1. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS, AND DRAWINGS OF OTHER TRADES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEING THAT THE WORK OF ALL TRADES IS COORDINATED WITH THE STRUCTURAL WORK.

2. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL DIMENSIONS SHOWN ON THE CONTRACT DOCUMENTS.

3. ANYTHING WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS OR AMBIGUITIES IN THE PLANS OR SPECIFICATIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGNER. CORRECTIONS OR WRITTEN INTERPRETATIONS SHALL BE ISSUED BEFORE CONSTRUCTION OF THE AFFECTED WORK MAY PROCEED.

4. DETAILS ARE MARKED AT THE SPECIFIC LOCATION WHERE THEY APPLY, BUT ALSO INDICATE GENERAL CONSTRUCTION REQUIREMENTS FOR OTHER LOCATIONS WITH SIMILAR CONDITIONS.

5. DETAILS NOTED AS "TYPICAL" MAY NOT BE REFERENCED ON THE DRAWINGS. TYPICAL DETAILS APPLY AT ALL LOCATIONS WHERE THE TYPE OF CONSTRUCTION SHOWN IN THE TYPICAL DETAIL OCCURS

FOUNDATIONS

1. THE CONTRACTOR IS TO REVIEW THE SUBSURFACE EXPLORATION REPORT PERFORMED FOR THIS PROJECT G23011.00 NCSU DOAK FIELD RENOVATIONS GEOTECHINCAL REPORT FROM FALCON 06-23-2023 BEFORE COMMENCEMENT OF SITE GRADING TO BECOME GENERALLY FAMILIAR WITH SUBSURFACE CONDITIONS WHICH MAY BE ENCOUNTERED DURING CONSTRUCTION. ALL SUBGRADE PREPARATION SHALL BE PERFORMED AS DEFINED IN THE PLANS AND SPECIFICATIONS AND IN COOPERATION WITH THE OWNER'S GEOTECHNICAL TESTING SERVICE.

2. SPECIAL FOUNDATIONS FOR THE SUPPORT OF MECHANICAL, ELECTRICAL, OR OTHER EQUIPMENT INSIDE OR OUTSIDE OF THE BUILDING SHALL BE DESIGNED BY THE EQUIPMENT SUPPLIER(S) AND REVIEWED BY THE STRUCTURAL ENGINEER FOR COMPATIBILITY WITH THE BUILDING FOUNDATION SYSTEM. DRAWINGS OF THE FOUNDATIONS SHALL BE SEALED BY A STRUCTURAL ENGINEER LICENSED IN THE STATE WHERE THE BUILDING IS LOCATED.

3. FOUNDATION DRAINAGE AND GROUNDWATER CONTROL SYSTEMS MAY BE INDICATED IN PART ON THE STRUCTURAL DRAWINGS TO SHOW APPROXIMATE LOCATIONS RELATIVE TO CERTAIN STRUCTURAL COMPONENTS. FOUNDATION DRAINAGE AND GROUNDWATER CONTROL SYSTEMS ARE NOT A PART OF THE STRUCTURAL DESIGN. SEE OTHER DRAWINGS FOR DESIGN REQUIREMENTS OF THESE SYSTEMS.

4. ALL FOOTINGS ARE DESIGNED TO BEAR ON RESIDUAL SOIL OR COMPACTED ENGINEERED FILL AND TO HAVE A MINIMUM BEARING CAPACITY AS LISTED UNDER "STRUCTURAL DESIGN DATA" IN THE GENERAL NOTES. FOOTING EXCAVATIONS ARE TO BE INSPECTED BY AN INDEPENDENT TESTING LABORATORY FOR SUITABLE SOILS, BEARING PRESSURE, AND COMPACTION. COMPACTION OF SOIL UNDER FOOTINGS TO BE 100% OF THE MAXIMUM STANDARD PROCTOR DRY DENSITY.

5. RETAINING WALLS:

   A. ALL RETAINING WALLS SHOWN ON THE STRUCTURAL DRAWINGS HAVE BEEN DESIGNED FOR THE LATERAL EARTH PRESSURES SHOWN IN THE GENERAL NOTES UNDER STRUCTURAL DESIGN DATA. RETAINING WALLS REQUIRE A FOUNDATION DRAINAGE SYSTEM WHICH IS DESIGNED TO PREVENT THE BUILD-UP OF HYDROSTATIC PRESSURE BEHIND THE WALL.
   B. DO NOT BACKFILL AGAINST RETAINING WALLS UNTIL WALL MATERIALS HAVE REACHED THEIR REQUIRED STRENGTH AND ANY REQUIRED BRACING IS INSTALLED. BACKFILL NON-RETAINING FOUNDATION WALLS SIMULTANEOUSLY ON BOTH SIDES.

6. SEE FOUNDATION PLAN NOTES FOR FURTHER REQUIREMENTS.

GALVANIZING

1. GALVANIZING OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING PUBLICATIONS:

   A. AMERICAN GALVANIZERS ASSOCIATION:
   B. SUGGESTED SPECIFICATION FOR HOT DIP GALVANIZING
   C. AMERICAN SOCIETY FOR TESTING AND MATERIALS:
   D. ASTM A 123 ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS
   E. ASTM A 153 ZINC COATING (HOT-DIP) ON IRON AND STEEL HARDWARE

2. ALL STRUCTURAL STEEL MATERIALS AND ACCESSORIES WHICH ARE HOT-DIP GALVANIZED SHALL MEET SPECIFIED SPECIAL MATERIAL REQUIREMENTS.

3. THE FOLLOWING ITEMS SHALL BE GALVANIZED:

4. ALL STEEL MATERIAL THAT EITHER SUPPORTS OR IS BUILT INTO EXTERIOR EXPOSED MASONRY CONSTRUCTION, IS OUTSIDE THE BUILDING THERMAL AND MOISTURE BARRIERS, OR IS EXPOSED TO EXTERIOR WEATHER CONDITIONS.

5. ALL CONNECTION MATERIALS FOR GALVANIZED MEMBERS AND FOR PRECAST CONCRETE. CONNECTION MATERIALS SHALL INCLUDE, BUT NOT BE LIMITED TO, NUTS, BOLTS, WASHERS, ANCHOR BOLTS, AND ITEMS EMBEDDED IN CONCRETE.

6. ITEMS NOTED ON DRAWINGS TO BE GALVANIZED.

7. GALVANIZED STEEL SHALL BE WELDED IN ACCORDANCE WITH AWS D19 - WELDING ZINC COATED STEEL BY THE AMERICAN WELDING SOCIETY. STEEL SURFACES SHALL BE FREE OF ZINC IN THE AREA TO BE WELDED.

8. AFTER GALVANIZED MATERIALS ARE INSTALLED, REPAIR DAMAGE AND EXTEND GALVANIZIED COATING WITH SPECIFIED ZINC TOUCH-UP MATERIAL TO PROVIDE THE FULL SPECIFIED EXTENT OF ZINC COATING COVERAGE.

9. GALVANIZED COATING SHALL BE REPAIRED BY CLEANING SURFACE, POWER DISC SANDING TO BRIGHT METAL, AND APPLYING AN ORGANIC COLD GALVANIZING COMPOUND WITH A MINIMUM OF 94% ZINC DUST IN THE DRY FILM, 8 MILS MINIMUM DFT, THREE COATS MINIMUM.

STRUCTURAL STEEL

1. ROLLED STEEL W-SHAPES SHALL CONFORM TO ASTM A992, GRADE 50, FY=50 KSI. STEEL PIPE SHALL CONFORM TO ASTM A53, TYPE-E, GRADE-B, FY=35 KSI. COLD FORMED STEEL TUBING SHALL CONFORM TO ASTM A500, GRADE-B, FY=46 KSI. ALL OTHER ROLLED STEEL SHAPES, PLATES, AND BARS, SHALL CONFORM TO ASTM A36, FY=36 KSI. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554, GRADE 36.

2. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH AISC SPECIFICATIONS, COMMENTARY, AND CODE OF STANDARD OF PRACTICE.

3. CONNECTIONS NOT DETAILED ON THE PLANS SHALL BE DESIGNED AND DETAILED BY THE FABRICATOR AND APPROVED BY THE DESIGNER. CONNECTION DESIGNS SHALL COMPLY WITH THE REQUIREMENTS OF THE GOVERNING BUILDING CODE AND "AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS, AISC 341-10 & AISC 341S1-10".

4. WELDS:
   A. ALL WELDS SHALL BE MADE IN ACCORDANCE WITH AWS D1.1 STRUCTURAL WELDING CODE - STEEL BY THE AMERICAN WELDING SOCIETY FOR THE MATERIAL BEING WELDED. WELDS SHALL BE MADE USING E70XX LOW-HYDROGEN ELECTRODES UNLESS OTHERWISE NOTED.
   B. GALVANIZED STEEL SHALL BE WELDED IN ACCORDANCE WITH AWS D1.9 - WELDING ZINC COATED STEEL BY THE AMERICAN WELDING SOCIETY. STEEL SURFACES SHALL BE FREE OF ZINC IN THE AREA TO BE WELDED.
   C. WELDS SHALL BE MADE BY WELDERS WHO HAVE BEEN QUALIFIED BY TESTS AS PRESCRIBED IN AWS D1.1 BY THE AMERICAN WELDING SOCIETY, TO PERFORM THE TYPE OF WORK REQUIRED.
   D. ALL SHOP WELDS SHALL BE A MINIMUM 3/16" AND ALL FIELD WELDS SHALL BE A MINIMUM 1/4", UNLESS NOTED OTHERWISE. INDICATED WELDING OF CONNECTED PARTS SHALL BE "CONTINUOUS" OR "ALL AROUND" AS APPLICABLE, UNLESS NOTED OTHERWISE.
   E. WELDS SHALL BE CLEANED AND TOUCHED UP WITH THE APPROPRIATE PAINT OR ZINC COATING.
   F. PROVIDE SEAL WELDS ON ALL WELDED STEEL JOINTS EXPOSED TO VIEW, MOISTURE, OR CORROSIVE CONDITIONS WHICH WOULD NOT OTHERWISE BE WELDED FOR STRENGTH.

5. BOLTED CONNECTIONS SHALL BE MADE USING HIGH-STRENGTH BOLTS, 3/4" DIAMETER CONFORMING TO ASTM A325N, UNLESS OTHERWISE NOTED ON PLAN. SEE SPECIFICATIONS FOR BOLT TIGHTENING METHODS.

6. SPLICES FOR ALL STEEL MEMBERS NOTED AS "CONTINUOUS" SHALL OCCUR OVER SUPPORTING MEMBERS.

7. PROVIDE ADEQUATE SEPARATION BETWEEN STRUCTURAL STEEL AND ALUMINUM AND OTHER DISSIMILAR METALS TO PREVENT GALVANIC CORROSION. SEPARATION MATERIALS SHALL BE ADEQUATE TO TRANSFER LOADS.

8. ALL STEEL WHICH IS PERMANENTLY EXPOSED TO NORMAL VIEW BY PEDESTRIANS OR OCCUPANTS SHALL BE CLASSIFIED AS ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) AS DEFINED BY THE AISC CODE OF STANDARD PRACTICE.

9. SEE ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS.

REINFORCED CONCRETE MASONRY

1. DETAILS FOR MASONRY CONSTRUCTION ON THE STRUCTURAL DRAWINGS ARE LIMITED IN SCOPE TO SHOW STRUCTURAL REQUIREMENTS ONLY. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FURTHER REQUIREMENTS OF MASONRY CONSTRUCTION INCLUDING UNIT TYPES AND SIZES; PLACING PATTERNS; JOINT REINFORCING; VENEER TIES; CONTROL, ISOLATION, AND EXPANSION JOINTS; INSULATION; DAMPPROOFING; ETC. SEE DRAWINGS OF OTHER TRADES FOR OPENINGS AND OTHER SPECIAL REQUIREMENTS.

2. MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530. CONCRETE MASONRY BLOCK SHALL CONFORM TO ASTM C90. THE PORTLAND CEMENT/LIME MORTAR SHALL CONFORM TO ASTM C270, TYPE-S. GROUT FOR FILLED MASONRY SHALL BE FINE OR COARSE GROUT APPROPRIATELY SELECTED FOR THE WIDTH OF GROUT SPACE PER ACI 530. GROUT SHALL CONFORM TO ASTM C476 WITH A MAXIMUM AGGREGATE SIZE OF 3/8" FOR COARSE GROUT AND A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS WHEN TESTED IN ACCORDANCE WITH ASTM C1019. THE NET AREA COMPRESSIVE STRENGTH OF MASONRY SHALL BE AT LEAST 1500 PSI.

3. PROPORTIONING OF ALL MORTAR SHALL BE ONLY BY VOLUME MEASUREMENT, NOT BY SHOVEL COUNT. MORTAR SHALL BE PROPORTIONED USING THE SAME PORTLAND CEMENT, HYDRATED LIME AND FINE AGGREGATE THAT ARE SELECTED AND APPROVED FOR THE ENTIRE PROJECT. MORTAR SHALL BE MIXED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM C270, "SPECIFICATION FOR MORTAR FOR UNIT MASONRY".

4. SOLID GROUT FILL SHALL BE PROVIDED IN ALL MASONRY BELOW GRADE, IN ALL CAVITIES WITH REINFORCING BARS, IN ALL CAVITIES WITH EMBEDDED OR DRILLED-IN ANCHORS, AND AS INDICATED. GROUT FILL SHALL COMPLETELY AND SOLIDLY FILL REQUIRED SPACES.

5. ALL MASONRY CAVITIES WHICH ARE TO BE FILLED WITH GROUT SHALL BE FILLED IN LIFTS NOT EXCEEDING 4'-0". IF NECESSARY TO OBTAIN COMPLETE FILL, LIFT HEIGHT SHALL BE REDUCED. CARE SHALL BE TAKEN WHILE LAYING BLOCK TO PREVENT MORTAR AND OTHER DEBRIS FROM FALLING INTO THE CAVITIES AND PREVENTING THE GROUT FROM COMPLETELY FILLING THE CAVITIES. GROUT SHALL BE CONSOLIDATED AT PLACEMENT AND AGAIN AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED.

6. WHERE REINFORCING IS SPECIFIED TO BE PLACED IN MASONRY CAVITIES, REINFORCING SHALL BE SECURELY TIED IN POSITION AT THE PROPER LOCATION WITHIN THE MASONRY PRIOR TO FILLING WITH GROUT. PROVIDE BAR SUPPORTS AND POSITIONERS AS REQUIRED. INSERTION OF UNSECURED REINFORCEMENT INTO MASONRY CAVITIES OR INTO GROUT FILL SHALL NOT BE PERMITTED.

7. SEE MISCELLANEOUS LINTEL SCHEDULE FOR REQUIRED LINTELS IN MASONRY WALLS NOT OTHERWISE SHOWN ON DRAWINGS.

8. ALL CONCRETE MASONRY SHALL BE REINFORCED WITH THE MINIMUM REINFORCING SHOWN IN THE TYPICAL CONCRETE MASONRY REINFORCING DETAIL, UNLESS NOTED OTHERWISE.

9. PROVIDE BRACING AT TOP OF ALL MASONRY WALLS. SEE TYPICAL DETAILS.

STEEL BAR JOISTS

1. BAR JOISTS SHALL BE OPEN WEB STEEL TYPE CONFORMING TO AND INSTALLED ACCORDING TO ALL APPLICABLE REQUIREMENTS OF THE STEEL JOIST INSTITUTE'S "STANDARD SPECIFICATIONS LOAD TABLES AND WEIGHT TABLE FOR STEEL JOISTS (K-SERIES, LH-SERIES, DLH-SERIES) AND JOIST GIRDERS" AS APPLICABLE UNLESS SPECIFICALLY INDICATED OTHERWISE IN THE CONTRACT DOCUMENTS.

2. PROVIDE ERECTION STABILITY BOLTING TO COLUMNS AS REQUIRED BY SJI.

3. PROVIDE BRIDGING AS REQUIRED BY SJI AND AS INDICATED ON PLAN AND/OR PLAN NOTES. ALL ERECTION STABILITY BRIDGING SHALL BE INSTALLED BEFORE SLACKENING OF THE HOIST LINES. ALL BRIDGING AND OTHER JOIST BRACING MEMBERS SHALL BE INSTALLED AS SOON AS JOISTS HAVE BEEN ERECTED AND BEFORE APPLICATION OF ANY OTHER CONSTRUCTION MATERIALS OR LOADS.

4. JOISTS SHALL HAVE EACH END WELDED TO SUPPORTS PER SJI WITH NOT LESS THAN 1/8"x2" LONG FILLET WELDS ON EACH SIDE OF K-SERIES JOISTS AND NOT LESS THAN 1/4"X2-1/2" LONG FILLET WELDS ON EACH SIDE OF LH-SERIES JOISTS, DLH SERIES JOISTS, AND FOR JOIST GIRDERS.

5. SEE FRAMING PLAN NOTES FOR FURTHER REQUIREMENTS.

REINFORCING STEEL

1. DETAILING, FABRICATION, STORAGE, AND INSTALLATION OF REINFORCING, UNLESS OTHERWISE SHOWN ON THE PLANS, SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318) AND THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI 315), BOTH BY THE AMERICAN CONCRETE INSTITUTE.

2. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. REINFORCING STEEL WELDED TO EMBEDDED STEEL PLATES OR SHAPES SHALL CONFORM TO ASTM A706. DO NOT WELD REINFORCING BARS TO EACH OTHER.

3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.

4. UNLESS NOTED OTHERWISE ON PLANS OR IN DETAILS, REINFORCING BARS MARKED ON THE PLANS AS BEING CONTINUOUS SHALL BE LAPPED AT SPLICE LOCATIONS AS SHOWN IN SCHEDULE. FOR SPLICES AT CORNERS OR INTERSECTIONS OF WALLS AND BEAMS, SEE TYPICAL DETAILS.

5. REINFORCING STEEL SHALL BE CLEAN OF MUD, DEBRIS, LOOSE RUST, CEMENT GROUT, OR ANY OTHER MATERIAL WHICH MAY INHIBIT BOND BETWEEN THE STEEL AND THE CONCRETE.

6. REINFORCING SHALL BE SECURELY TIED AND ANCHORED IN PLACE BEFORE CONCRETE PLACEMENT TO PREVENT DISLOCATION.

7. BARS SHALL BE BENT ONLY USING APPROVED METHODS. BARS SHALL NOT BE BENT AFTER PARTIAL EMBEDMENT IN HARDENED CONCRETE.

8. UNLESS OTHERWISE NOTED, CONCRETE COVERAGE ON REINFORCING STEEL SHALL BE AS FOLLOWS:

A.	FOOTINGS - ALL FACES	3"
B.	SLAB-ON-GRADE - TOP	1"
C.	SLAB-ON-GRADE - BOTTOM	2"
D.	PIERS	2"
E.	BEAMS -INTERIOR	1-1/2"
F.	SLABS - INTERIOR	3/4" (TOP)
G.	WALLS - EXPOSED TO SOIL	2"
H.	WALLS - NOT EXPOSED TO SOIL - INTERIOR	3/4"

DELEGATED DESIGN

1. THE GENERAL CONTRACTOR SHALL SUBMIT THE FOLLOWING SHOP DRAWINGS FOR STRUCTURAL ENGINEER AND ARCHITECT REVIEW:
   A. CONCRETE MIX DESIGNS
   B. REINFORCING STEEL
   C. STRUCTURAL STEEL
   D. STRUCTURAL STEEL CONNECTIONS
   E. STEEL STAIRS/LADDERS
   F. COLD FORMED METAL FRAMING
   G. STEEL ROOF JOISTS
   H. METAL ROOF DECKING
   I. ALL PRE ENGINEERED-STRUCTURAL COMPONENTS
2. ALL SUBMITTAL ITEMS SHALL INCLUDE THE FOLLOWING.
   A. A CERTIFICATE OF COMPLIANCE WITH CONTRACT DOCUMENTS SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA RESPONSIBLE FOR THE DESIGN.
   B. CALCULATIONS AND SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER THAT IS REGISTERED IN THE STATE WHERE THE BUILDING IS LOCATED.

STRUCTURAL DESIGN DATA

1. CODES AND STANDARDS:
   A. 2018 N. C. REVISIONS TO THE 2015 INTERNATIONAL BUILDING CODE.
   B. MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE 7-10.
   C. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI 318-14.
   D. BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES, ACI 530-13.
   E. SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AISC 360-10.
   F. AF&PA - NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.
2. FOUNDATIONS:
   A. FOOTINGS - ALLOWABLE SOIL BEARING PRESSURE ... 2000 PSF
   B. RETAINING WALLS (BACKFILL FROM ON SITE SOIL):
      1. SOIL WEIGHT ... 105 PCF
      2. ACTIVE PRESSURE COEFFICIENT ... 0.390
      3. AT-REST PRESSURE COEFFICIENT ... 0.56
      4. PASSIVE PRESSURE COEFFICIENT ... 2.50
      5. SLIDING FRICTION FACTOR ... 0.35
      6. GRAVITY LOADS:
   A. FLOOR LIVE LOADS:
      1. MECHANICAL ROOMS ... 40 PSF
      2. ATHLETIC AREAS AND PUBLIC COORIDOR ... 100 PSF
         (INCLUDES 20 PSF FOR MOVEABLE PARTITIONS)
   B. ROOF LIVE LOAD (MINIMUM) ... 20 PSF
   C. ROOF TRUSS LOADS:
      1. LIVE LOADS
         a. TOP CHORD (MINIMUM) ... 20 PSF
      2. DEAD LOADS
         a. TOP CHORD ... 10 PSF
         b. BOTTOME CHORD - SUSPENDED ... 5 PSF
      3. DEAD LOADS - MINIMUM VALUES FOR USE WITH WIND UPLIFT
         a. TOP CHORD ... 5 PSF
         b. BOTTOM CHORD - SUSPENDED ... 0 PSF
   A. ROOF SNOW LOADS:
      1. GROUND SNOW LOAD ... 15 PSF
      2. FLAT ROOF SNOW LOAD ... 12 PSF
      3. RISK CATEGORY ... III
      4. IMPORTANCE FACTOR ... 1.10
      5. Ce ... 1
      6. Ct ... 1
   B. SUSPENDED DEAD LOADS (CEILING, M.E.P, SPRINKLERS, ETC.):
      1. OVER MECHANICAL ROOMS ... 5 PSF
      2. ALL OTHER ... 5 PSF
   C. OTHER DEAD LOADS: PER CONSTRUCTION SHOWN ON DWGS
1. WIND LOADS:
   A. ULTIMATE WIND SPEED ... 120 MPH
      1. NOMINAL DESIGN WIND SPEED ... 120 MPH
   B. RISK CATEGORY ... III
   C. IMPORTANCE FACTOR ... 1
   D. EXPOSURE CATEGORY ... C
   E. INTERNAL PRESSURE COEFFICIENT ... +/- 0.18
   F. COMPONENTS & CLADDING DESIGN PRESSURES (MIN. TRIBUTARY AREAS):
      1. ZONE 1 - ROOF ... +20.9/-36.3 PSF
      2. ZONE 2 - ROOF EDGE ... +20.9/-60.9 PSF
      3. ZONE 3 - ROOF CORNER ... +20.9/-91.7 PSF
      4. ZONE 4 - WALL ... +36.3/-39.4 PSF
      5. ZONE 5 - WALL CORNER ... +33.2/-60.9 PSF
   G. DESIGN BASE SHEAR:
      1. EAST-WEST DIRECTION ... 79 KIPS
      2. NORTH-SOUTH DIRECTION ... 93 KIPS
2. EARTHQUAKE LOADS:
   A. MAPPED SPECTRAL RESPONSE ACCELERATION, SHORT PERIOD ... $S_S = 0.154$
   B. MAPPED SPECTRAL RESPONSE ACCELERATION, 1 SECOND PERIOD ... $S_1 = 0.077$
   C. DESIGN SPECTRAL RESPONSE ACCELERATION, SHORT PERIOD ... $S_{DS} = 0.164$
   D. DESIGN SPECTRAL RESPONSE ACCELERATION, 1 SECOND PERIOD ... $S_{D1} = 0.123$
   E. SITE CLASS ... D
   F. RISK CATEGORY ... III
   G. IMPORTANCE FACTOR ... 1.25
   H. SEISMIC DESIGN CATEGORY ... B
   J1. SEISMIC FORCE RESISTING SYSTEM - **PLAYER PERFORMANCE CENTER**
      1. BUILDING FRAME SYSTEM - STEEL ORDINARY CONCENTRICALLY BRACED FRAMES
      2. RESPONSE MODIFICATION COEFFICIENT (R) ... 3.5
      3. SYSTEM OVERSTRENGTH FACTOR (Ω_O) ... 2
      4. DEFLECTION AMPLITUDE FACTOR (Cd) ... 3.25
      5. SEISMIC RESPONSE COEFFICIENT (Cs) ... 0.0631
      6. ANALYSIS PROCEDURE - EQUIVALENT LATERAL FORCE
      DESIGN BASE SHEAR
      1. EAST-WEST DIRECTION ... 17.9 KIPS
      2. NORTH-SOUTH DIRECTION ... 17.9 KIPS
   J2. SEISMIC FORCE RESISTING SYSTEM - **LOCKER ROOM AND CONCOURSE**
      1. BUILDING FRAME SYSTEM - STEEL ORDINARY CONCENTRICALLY BRACED FRAMES
      2. RESPONSE MODIFICATION COEFFICIENT (R) ... 1.5
      3. SYSTEM OVERSTRENGTH FACTOR (Ω_O) ... 2.5
      4. DEFLECTION AMPLITUDE FACTOR (Cd) ... 1.5
      5. SEISMIC RESPONSE COEFFICIENT (Cs) ... 0.1367
      6. ANALYSIS PROCEDURE - EQUIVALENT LATERAL FORCE
      DESIGN BASE SHEAR
      1. EAST-WEST DIRECTION ... 85.2 KIPS
      2. NORTH-SOUTH DIRECTION ... 85.2 KIPS

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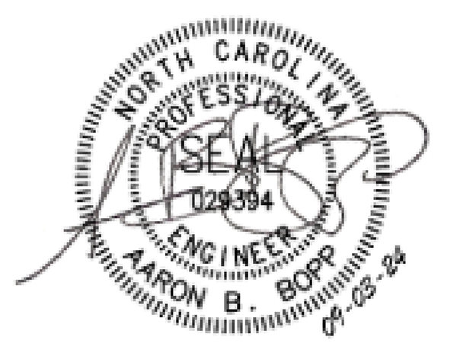
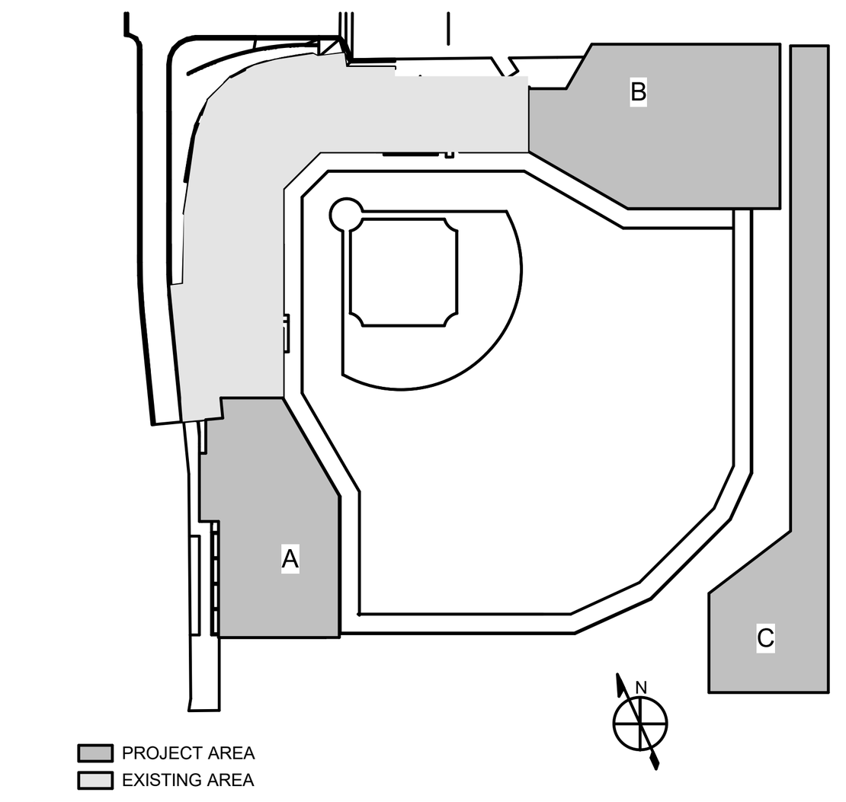
NC License No. F-0508

SKA Project Number:
Plotted:



SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
AARON B. BOPP
PROJECT MANAGER
AARON B. BOPP

REVISIONS

NO.	BY	DESCRIPTION	DATE
	KAT	ISSUE FOR BID	09/03/3024
2	KAT	FINAL DOCUMENT 2	08/12/2024
1	KAT	FINAL DOCUMENTS	07/19/2024
	KAT	CONSTRUCTION DOCUMENTS	04/26/2024
	KAT	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/29/2024

NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	KAT	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	1/8" = 1'-0"

DRAWING NAME
GENERAL NOTES

FLOOR/SECTION PHASE: BID
DRAWING NO.: S1.2

SECTION 01 41 01 - STATEMENT OF SPECIAL INSPECTIONS

Project: SKA Project number 220445

Location: 1081 Varsity Drive, Raleigh, NC 27606
Owner's Representative: Bob Cwikla
Owner's Address: NC State University
Facilities
Administrative Services III, 369 C
2701 Sullivan Drive
Raleigh, NC 27607

Architect of Record: EwingCole
Structural EOR: SKA Consulting Engineers, Inc.

This Statement of Special Inspections is submitted as a condition for permit issuance in accordance with the Special Inspection requirements of the 2018 North Carolina State Building Code. It includes a Schedule of Special Inspection Services applicable to this project as well as the name of the Special Inspector and the identity of other approved agencies intended to be retained for conducting these inspections.

The Special Inspector shall keep records of all inspections and shall furnish inspection reports to the State Construction Office, Structural Engineer and Architect of Record. Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the registered design professional in responsible charge, Structural Engineer and Architect of Record. The Special Inspections program does not relieve the Contractor of his or her responsibilities.

Interim reports shall be submitted to the Owner, Structural Engineer and Architect of Record. Interim Report Frequency: Monthly

A Final Report of Special Inspections documenting completion of all required Special Inspections and correction of any discrepancies should be submitted prior to issuance of a Certificate of Use and Occupancy.

Job Site safety and means and methods of construction are solely the responsibility of the Contractor.

Statement of Special Inspections Prepared by (Structural Engineer of Record):

Aaron B. Bopp, PE
(Type or print name)

Signature 2024-01-29
Signature Date

Owner's Authorization

Signature Date Signature Date

	SER/SI	• Continuous monitoring of reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special structural walls of concrete and shear reinforcement. • Continuous monitoring of welding of shear reinforcement. • Periodic monitoring of welding of other reinforcement. • Identify use of approved filler material and in accordance with AWS D1.1

Retaining Walls In Excess of 5' of Retained Fill

Item	Qualifications	Scope
1. Foundation	SI / ITL	• Foundation system, including all materials and installation, is adequate for the intended site conditions.
2. Construction Material	SER / SI / ITL	• Measurement of the quality of construction materials for conformance with specifications
3. Soil Conditions	SI / ITL	• Determination of similarity of actual soil conditions to those anticipated and assumed in design.
4. Backfill	SI / ITL SI / ITL	• Examination of the backfill materials for compliance with the plans and specifications. • Examination of drainage systems behind the wall for compliance with the plans and specifications.

Schedule of Special Inspection Services

The following sheets comprise the required schedule of special inspections for this project. The construction divisions which require special inspections for this project are as follows.

- ☒ Structural Steel
- ☐ Cold-Formed Steel Framing
- ☒ Cast-in-Place Concrete
- ☒ Masonry
- ☐ Wood Construction
- ☒ Soils
- ☒ Retaining Walls in Excess of 5'
- ☐ Special Foundations
- ☐ Wall Panels/Veneer
- ☐ Sprayed Fire-Resistant Material
- ☐ Exterior Insulation & Finish System
- ☐ Smoke Control
- ☐ Fire Rated Penetrations

Inspection Agents	Qualifications	Address
1. Special Inspector	SI	
1. Structural Engineer of Record	SER	Aaron B. Bopp, PE 7900 Triad Center Drive Suite 200 Greensboro, NC 27409
2. Testing Laboratory	ITL	
4. Other	See Qualifications	

Note: The inspection and testing agent shall be engaged by the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the owner, prior to commencing work.

Seismic Design Category: B

Basic Wind Speed: 115 mph

Wind Exposure Category: C

The inspection agent shall submit a report of special inspection to the Special Inspector within four (4) days of performing an inspection or test.

Cast-in-Place Concrete

Item	Qualifications	Scope
1. Mix Design/Material Certifications	SER / SI	• Collect mix designs and verify appropriate mix use during specific installation
2. Reinforcement Installation	SER / SI SI ITL ITL	• Periodic inspection of reinforcing steel and welded wire fabric • Collection of certified mill test reports • Inspection of anchor bolts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased per IBC section 1911.5 or where strength design is used • Inspection of anchors and reinforcing steel installed in hardened concrete: verify anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening torque
3. Concrete Placement/Monitoring Fresh Concrete, Sampling & prep of test samples	SI / ITL SI / ITL SI / ITL SI / ITL SI / ITL SI / ITL	• Continuous inspection of cast-in-place concrete placement • Continuous monitoring of sampling of fresh concrete, slump test, air content test, temperature of concrete and creation of strength test specimens • Continuous inspection of bolts to be installed in concrete prior to and during placement • Concrete strength testing and verification of compliance with construction documents • Verify use of approved design mix • Inspection of concrete placement for proper application techniques
4. Curing & Protection	SI / ITL	• Periodic inspections of curing techniques
5. Post-Installed Anchors	SI/ITL	• Verify materials and anchor preparation prior to installation • Continuous Observation of installation • Periodic Proof testing • Verify installing Personnel have been trained for adhesive installation • Verify Materials, spacing and location • Verify Installation Conditions • Verify installation depth and hole preparation. • Continuous Inspection of Adhesive and Anchor/Reinforcement installation • Verify/Observe Post-installed Torque • Continuous monitoring of proof load tests • Proof test 5% of adhesive anchors

QUALIFICATIONS OF INSPECTORS AND AGENTS OF SPECIAL INSPECTORS

The qualifications of all personnel performing Special Inspection activities are subject to the approval of the Building Official. The credentials of all inspectors shall be provided if requested. The individuals performing a stipulated test or inspection shall have certification or license as indicated below and/or equivalent ICC Certification for the materials, procedures or testing being observed or performed respectively.

The Special Inspector (SI) shall be a licensed Professional Engineer (PE or SE) with a minimum of 3 years of experience as a Special Inspector. The SI shall have experience in the design of structures.

1. SE Structural Engineer: A licensed PE or SE specializing in the design of building structures.
2. Geotechnical Engineer: A licensed PE specializing in soil mechanics and foundations.
3. Structural Engineering Intern: A graduate engineer who has passed the Fundamentals of Engineering examination, with experience in the design of building structures and working under the supervision of a licensed structural PE or SE.
4. Geotechnical Engineering Intern: A graduate engineer who has passed the Fundamentals of Engineering examination, with experience in soil mechanics and foundations and working under the supervision of a licensed geotechnical PE or SE.
5. Geotechnical Technician 1: An experienced technician with National Institute for Certification in Engineering Technologies: Level 2 – Soils certification.
6. Geotechnical Technician 2: An experienced technician with National Institute for Certification in Engineering Technologies: Level 2 – Geotechnical Engineering certification.
7. Concrete Technician 1: An experienced technician with American Concrete Institute – Grade I Concrete Field Testing Technician or Grade I Concrete Laboratory Testing Technician certification.
8. Concrete Technician 2: An experienced technician with American Concrete Institute – Grade II Concrete Laboratory Testing Technician or ICBO Reinforced Concrete Special Inspector certification.
9. SCSI Inspection/Testing Company with fire protection engineering experience, mechanical engineering experience, and certification as air balancers.

Soils

Item	Qualifications	Scope
1.Site Preparation	SI	• Determine that site has been prepared in accordance with the approved soils report
2. Fill Placement	SI	• Determine that material used and maximum lift thickness comply with approved soils report
3. Density Evaluation	SI / ITL	• Determine that in-place dry density of the compacted fill complies with approved soils report
4. Retaining Walls over 5 Ft.	SI / ITL SI / ITL SI / ITL SI / ITL SI / ITL	• Periodically verify materials below foundations are adequate to achieve the design bearing capacity. • Verify excavations are extended to proper depth and have reached proper material. • Periodically perform classification and testing of controlled fill materials. • Continuously verify use of proper materials, densities, and lift thicknesses during placement and compaction of controlled fill • Periodically prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly

Schedule of Special Inspection Services
Structural Steel

Item	Qualifications	Scope
1. Fabricator Certification/Quality Control Procedures	SI SER/SI	• Ensure fabricator meets requirements of NCSBC 1704.2.2 • Collect Certificate of Compliance from fabricator at completion of fabrication
1. Material Verification of high strength bolts and washers	SER/SI SER/SI	• Periodic verification of markings to conform to ASTM standards specified in the approved construction documents. • Collect manufacturer's certificate of compliance.
2. Inspection of high-strength bolting	SER/SI SER/SI SER/SI	• Periodic verification of snug tight joints. • Periodic verification of pretensioned and slip-critical joints using turn-of-nut with matchmarking, twist-off bolts or direct tension indicator methods of installation. • Continuous verification of pretensioned and slip-critical joints using turn-of-nut without matchmarking or calibrated wrench methods of installation.
3. Material verification of structural steel and cold-formed steel deck	SI SI SER/SI	• Periodic verification for structural steel. Identifications of markings to conform to AISC 360. • Periodic verification for other steel. Identifications of markings to conform to ASTM standards specified in the approved construction documents. • Collect manufacturer's certified test reports.
4. Material verification of weld filer materials	SI SER/SI	• Periodic verification of materials. Identification markings to conform to AWS specifications in the approved construction documents. • Collect manufacturer's certificate of compliance.
6. Inspection of Welding	SI SI	• Continuous or periodic Inspection of welding of structural steel members in accordance with NCSBC Table 1704.3 • Continuous monitoring of complete or partial penetration groove welds. • Continuous monitoring of multipass fillet welds. • Continuous monitoring of single pass fillet welds in excess of 5/16". • Continuous monitoring of plug or slot welds. • Periodic monitoring of single pass fillet welds 5/16" or less. • Periodic monitoring of floor or roof deck welds. • Continuous or periodic Inspection of welding of reinforcing steel in accordance with NCSBC Table 1704.3 • Periodic verification of weldability steel other than ASTM A 706.

Schedule of Special Inspection Services
Masonry

Item	Qualifications	Scope
1. Material Certification	SI SI SI	• Collect mix design for mortar • Collect mix design for grout • Certificates of Compliance for maso
2. Mixing of Mortar & Grout	SI	• Periodic inspection of site prepared r • Periodic verification of f'm prior to u except where specifically exempted Carolina State Building Code.
3. Installation of Masonry	SI SER / SI	• Inspection of construction of mortar beginning masonry construction and construction • Verify size and location of structural
4. Reinforcement Installation	SER / SI SER / SI SER / SI	• Verify location of reinforcement and structure prior to construction • Prior to grouting verify size, grade, a reinforcement and connection of mai structural frame • Verify size and location of structural elements.
5. Grouting Operations	SI	• Continuous observation of the placer grout, conforming cleanliness of gro placement of the reinforcing connect
6. Weather Protection	SI	• Periodically verify protection techni construction of masonry below 40°F
7. Observation of the Evaluation of Masonry Strength	SI / ITL	• Continuous observation of the prepa specimens, mortar specimens and or
8. Post-Installed Anchors	SI/ITL	• Verify materials and anchor preparat installation • Continuous Observation of installati • Periodic Proof testing • Verify installing Personnel have bee adhesive installation • Verify Materials, spacing and locatic • Verify Installation Conditions • Verify installation depth and hole pr • Continuous Inspection of Adhesive a Anchor/Reinforcement installation • Verify/Observe Post-installed Torqu • Continuous monitoring of proof load • Proof test 5% of adhesive anchors
9. Self-consolidating Grout	SI	• Continuous verification of slump flo delivered to the site for self-consolidating grout.

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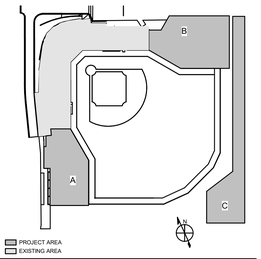
SKA Project Number
Printed

NORTH CAROLINA PROFESSIONAL SEAL 036394 ENGINEER AARON B. BOPP 09-03-24

SCO PROJECT NO. 22-24384-01B
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
AARON B. BOPP
PROJECT MANAGER
AARON B. BOPP

REVISIONS

NO.	BY	DESCRIPTION	DATE
	KAT	ISSUE FOR BID	09/03/3024
2	KAT	FINAL DOCUMENT 2	08/12/2024
1	KAT	FINAL DOCUMENTS	07/19/2024
	KAT	CONSTRUCTION DOCUMENTS	04/26/2024

NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY KAT DATE 09/03/2024
PROJECT NO. 20220400 SCALE
DRAWING NAME
SPECIAL INSPECTIONS

FLOOR/SECTION PHASE DRAWING NO.
BID S1.3

AGENT'S FINAL REPORT OF SPECIAL INSPECTIONS

Project Name: NCSU Doak Field Enhancement
SKA Project number 220445

Owner: Bob Cwikla
Owner's Address: NC State University
Facilities
Administrative Services III, 369 C
2701 Sullivan Drive
Raleigh, NC 27607

Building Official: NC State Construction Office

Special Inspector:

Inspection Agent: _____
(Agent Title as listed in Statement of Special Inspections)

_____
(Company Name)

_____
(Company Address)

To the best of my information, knowledge, and belief, the special inspections or testing required for this project and itemized for this Agent in the STATEMENT OF SPECIAL INSPECTIONS submitted for permit have been performed and all discovered discrepancies have been reported and resolved other than the following:

Interim reports submitted prior to this final report form a basis for and are to be considered an integral part of this final report.

Respectfully Submitted,

_____
(Type or Print Name)

_____
Signature Date Seal or Certification

FINAL REPORT OF SPECIAL INSPECTIONS

Project Name: NCSU Doak Field Enhancement
SKA Project number 220445

Owner: Bob Cwikla
Owner's Address: NC State University
Facilities
Administrative Services III, 369 C
2701 Sullivan Drive
Raleigh, NC 27607

Building Official: NC State Construction Office

Designers: EwingCole
801 Central Avenue
Suite C
Charlotte, NC 28204

SKA Consulting Engineers, Inc.
7900 Triad Center Drive, Suite 200
Greensboro, NC 27409
Phone: (336) 855-0993

Special Inspector:

To the best of my information, knowledge, and belief, the special inspections required for this project and itemized in the STATEMENT OF SPECIAL INSPECTIONS submitted for permit have been performed and all discovered discrepancies have been reported and resolved other than the following:

Interim reports submitted prior to this final report form a basis for and are to be considered an integral part of this final report.

Respectfully Submitted,

_____
Date Seal

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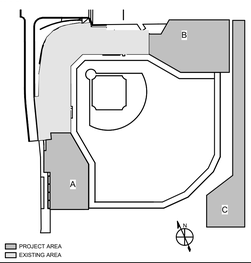
NC Taxpayer No. F-0508
SKA Project Number
Printed:

NORTH CAROLINA PROFESSIONAL SEAL 024394 ENGINEER AARON B. BOPP 09-03-24

SCO PROJECT NO. 22-24384-01B
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
AARON B. BOPP
PROJECT MANAGER
AARON B. BOPP

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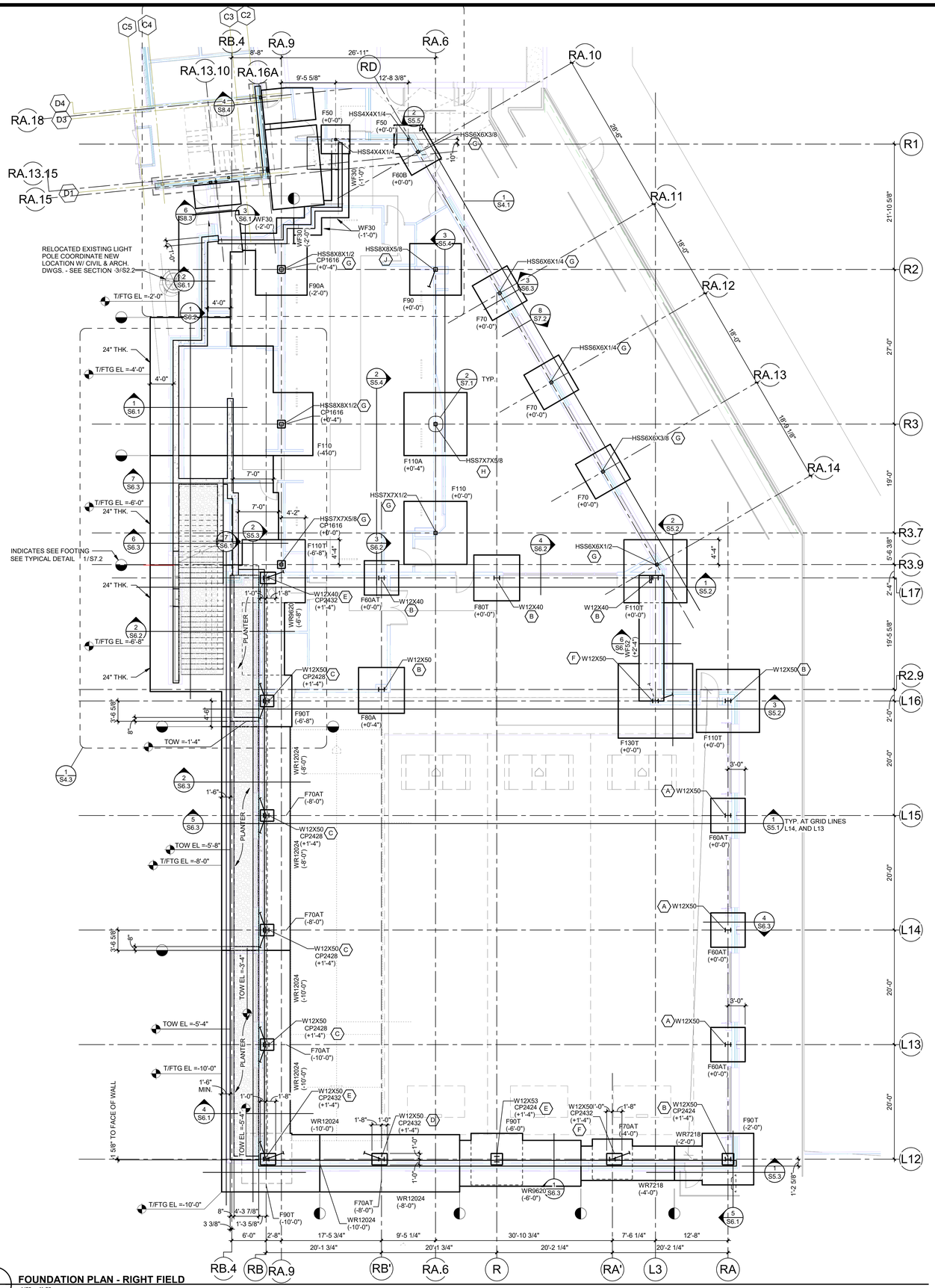
NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY KAT DATE 09/03/2024
PROJECT NO. 20220400 SCALE
DRAWING NAME

SPECIAL INSPECTIONS CONTINUED

FLOOR/SECTION PHASE DRAWING NO.
BID S1.4



1 S2.1 **FOUNDATION PLAN - RIGHT FIELD**
1/8" = 1'-0"

SPREAD FOOTING NOTES

1. COLUMN FOOTINGS: SEE FOOTING SCHEDULE.
2. WALL FOOTINGS: UNLESS OTHERWISE INDICATED, ALL WALL FOOTINGS SHALL BE 1'-0" DEEP AND PROJECT 6" BEYOND EACH FACE OF THE SUPPORTED WALL. REINFORCING FOR SUCH FOOTINGS SHALL CONSIST OF (1) #5 CONTINUOUS LONGITUDINAL BAR FOR EACH FULL OR PARTIAL FOOT OF FOOTING WIDTH AND #4 TRANSVERSE BARS AT 48" O.C. MINIMUM FOOTING WIDTH SHALL BE 2'-0" WITH (3) #5 CONT.
3. SEE ALL TYPICAL DETAILS SHOWING CONSTRUCTION RELATED TO FOOTINGS INCLUDING THOSE INDICATED BELOW:
   - "COLUMN BASE & ISOLATION JOINT": SEE DETAIL 12/S7.1
   - "COLUMN PIER": SEE DETAIL 6/S7.1
   - "COLUMN ANCHORAGE" SEE DETAIL 2/S7.1, 3/S7.1, AND 4/S7.1
   - "STEP FOOTING" SEE DETAIL 1/S7.2
4. FOOTING ELEVATIONS SHOWN ON PLAN ARE FOR ESTIMATING PURPOSES AND MAY BE VARIED TO SUIT SITE, SOIL, OR UNDERGROUND UTILITY CONDITIONS AS FOLLOWS:
   A. THE TOP OF ALL EXTERIOR FOOTINGS ARE TO BE A MINIMUM OF 2'-0" BELOW THE FINISH GRADE, COORDINATE WITH SITE PLAN. IN NO CASE SHALL TOP OF FOOTING ELEVATIONS BE HIGHER THAN INDICATED ON PLAN. PRIOR TO CONSTRUCTION, NOTIFY THE ENGINEER OF ALL FOOTING ELEVATIONS THAT VARY FROM THOSE SHOWN ON THE PLAN.
   B. COORDINATE FOOTING ELEVATIONS WITH UNDERGROUND UTILITIES. UNDERGROUND UTILITIES WHICH CROSS WALL FOOTINGS SHALL CROSS AT AN ANGLE OF NO MORE THAN 45 DEGRESS FROM PERPENDICULAR. UNLESS OTHERWISE SHOWN OR APPROVED BY THE DESIGNER, THE MINIMUM CLEARANCE OF UNDERGROUND PIPES AND UTILITIES WHICH CROSS BELOW WALL FOOTINGS SHALL BE 8", OTHERWISE THE FOOTING SHALL BE STEPPED DOWN SO THAT THE PIPES MAY PASS ABOVE THE FOOTING AND THROUGH THE WALL. ANY PIPES WHICH MUST PASS UNDERNEATH A WALL FOOTING ARE TO BE INSTALLED PRIOR TO THE CONSTRUCTION OF THE FOOTING AND THE TRENCH BACKFILLED AND COMPACTED AS REQUIRED.
   C. UNLESS OTHERWISE APPROVED BY THE DESIGNER, NO EXCAVATION SHALL OCCUR BELOW A SPREAD FOOTING WITHIN A ZONE DEFINED BY A PLANE SLOPING DOWNWARD AT A 1:1 SLOPE FROM THE BOTTOM EDGES OF THE FOOTING ON ALL SIDES.
5. ALL FOOTING REINFORCING SHALL BE SUPPORTED ON THE SPECIFIED CHAIRS ON THE SOIL AND SHALL BE SECURED AGAINST LATERAL MOVEMENT.
6. IF RAINFALL OR GROUNDWATER INTRUSION IS IMMINENT BEFORE PLACEMENT OF CONCRETE IN FOOTING EXCAVATIONS, A 2" THICK "MUD MAT" OF LEAN CONCRETE SHALL BE PLACED IN THE EXCAVATION AFTER OVEREXCAVATING 2" IN DEPTH. FOR LIGHT PRECIPITATION CONDITIONS, PROTECT BOTTOM AND SIDES OF EXCAVATION WITH TEMPORARY 6 MIL POLYETHYLENE LINING. ANY SOIL WHICH IS SOFTENED DUE TO MOISTURE EXPOSURE SHALL BE UNDERCUT TO FIRM SOIL AND THE DEPTH OF THE FOOTING SHALL BE INCREASED TO REPLACE THE SOFT SOIL THAT WAS REMOVED.

WALL FOOTING SCHEDULE - RIGHT FIELD

MARK	WIDTH	DEPTH	REINFORCING		REMARKS
			TOP	BOTTOM	
WF30	3'-0"	1'-4"		(4)#5 CONT. & #5 @ 24" O/C TRANSVERSE	

FOOTING SCHEDULE NOTES

GENERAL NOTES:

1. FOOTING MARKS "F__" DESIGNATE THE PLAN SIZE OF THE FOOTING IN TENTHS OF A FOOT. RECTANGULAR FOOTINGS ARE NOTED WITH A DUAL DESIGNATION. VARIATIONS OF FOOTINGS WITH THE SAME PLAN DIMENSIONS ARE IDENTIFIED WITH A SUFFIX IN PARENTHESIS (-).
2. SEE DETAIL "TYPICAL COLUMN FOOTING AND ISOLATION JOINT".
3. UNLESS NOTED OTHERWISE, CENTER FOOTING BELOW COLUMN OR COLUMN PIER.

REMARKS:

1. NONE.

FOOTING SCHEDULE

MARK	WIDTH	LENGTH	DEPTH	BOTT. REINFORCING			TOP REINFORCING			REMARKS
				QUA.	SIZE	SPACING	QUA.	SIZE	SPACING	
F50	5'-0"	5'-0"	1'-6"	(6)	#6	EA. WAY	--	--	--	--
F60A	6'-0"	6'-0"	2'-0"	(7)	#7	EA. WAY	--	--	--	--
F60B	6'-0"	6'-0"	1'-6"	(7)	#6	EA. WAY	--	--	--	--
F70	7'-0"	7'-0"	1'-4"	(8)	#5	EA. WAY	--	--	--	--
F70A	7'-0"	7'-0"	2'-0"	(8)	#7	EA. WAY	--	--	--	--
F80	8'-0"	8'-0"	2'-0"	(9)	#7	EA. WAY	--	--	--	--
F80A	8'-0"	8'-0"	2'-0"	(9)	#7	EA. WAY	--	--	--	--
F90	9'-0"	9'-0"	2'-0"	(10)	#7	EA. WAY	--	--	--	--
F90A	9'-0"	9'-0"	1'-6"	(10)	#6	EA. WAY	--	--	--	--
F110	11'-0"	11'-0"	2'-0"	(12)	#7	EA. WAY	--	--	--	--
F110A	11'-0"	11'-0"	2'-0"	(12)	#7	EA. WAY	--	--	--	--
F130	13'-0"	13'-0"	2'-4"	(14)	#7	EA. WAY	--	--	--	--

NOTE: FOOTING DENOTED WITH A "T" HAVE TOP STEEL THAT MATCHES BOTTOM STEEL.

PLAN NOTES:

1. "F-----" INDICATES FOOTING MARK. SEE FOOTING SCHEDULE - RIGHT FIELD SHEET S7.1 FOR SIZE & REINF.
2. "CP--" INDICATES CONCRETE PEDESTAL. ('-'__") NOTED WITH "CP__". INDICATES TOP ELEVATION OF PEDESTAL SEE CONCRETE PEDESTAL SCHEDULE 9/S7.1 & 6/S7.1 FOR CONCRETE PEDESTAL SCHEDULE AND DETAILS.
3. "WF--" INDICATES WALL FOOTING MARK FOR WALLS. SEE SHEET S7.2 FOR WALL FOOTING SCHEDULE.
4. "WR_" INDICATES RETAINING WALL MARK. SEE 7/S7.1 FOR RETAINING WALL SCHEDULE.
5. SEE S7.4 THRU S7.5 FOR TYPICAL CMU SECTIONS AND DETAILS.
6. INDICATES STEP FOOTING. SEE 1/S7.2 FOR STEPPED WALL FOOTING.
7. (7) INDICATES COLUMN BASE PLATE MARK. SEE DETAIL 4/S7.1

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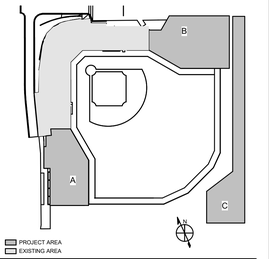
NORTH CAROLINA PROFESSIONAL SEAL 042394 ENGINEER AARON B. BOPP 09-03-24

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



PRINCIPAL
AARON B. BOPP
PROJECT MANAGER
AARON B. BOPP
ENGINEER

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	KAT	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/29/2024

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DOAK FIELD ENHANCEMENT
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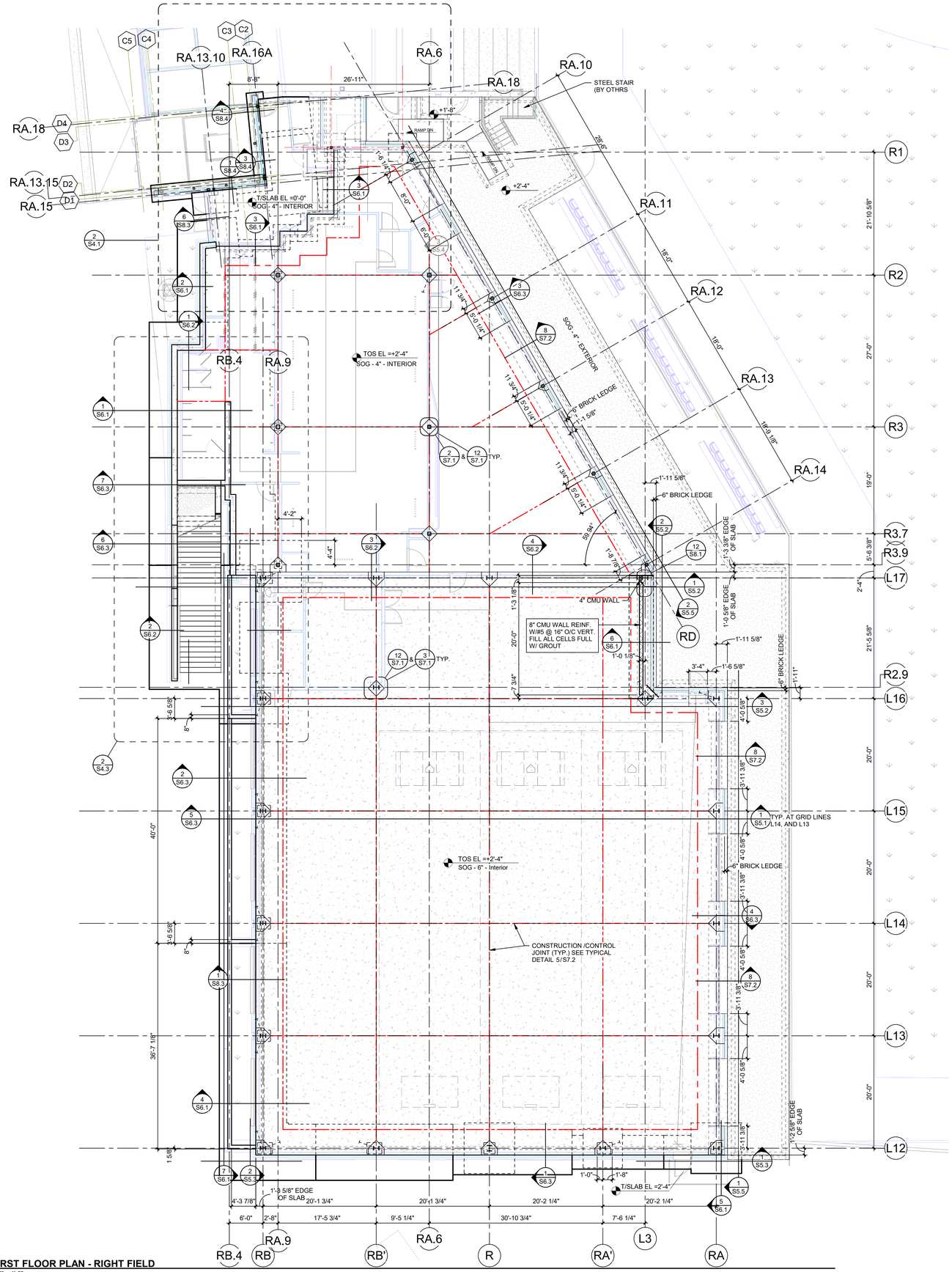
Raleigh, NC 27606

DRAWN BY	KAT	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	1/8" = 1'-0"

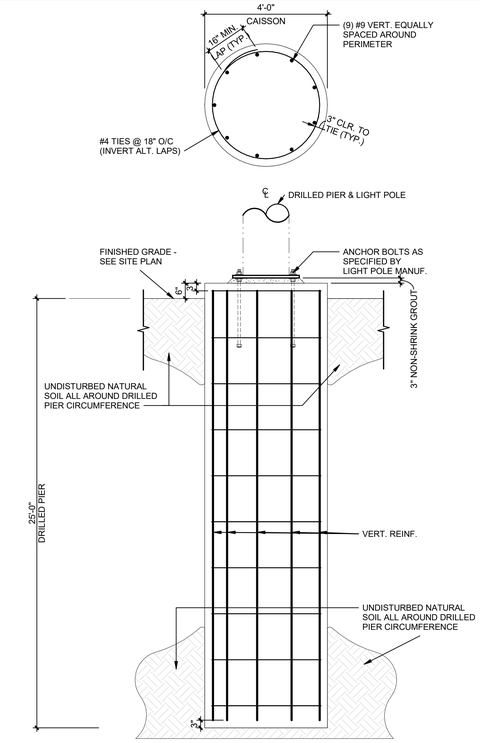
DRAWING NAME

FOUNDATION PLAN - RIGHT FIELD

FLOOR/SECTION PHASE	DRAWING NO.
BID	S2.1



1 / S2.2 **FIRST FLOOR PLAN - RIGHT FIELD**
1/8" = 1'-0"



3 / S2.2 **DRILLED PIER AT LIGHT POLE BASE S7.3/2**
1/2" = 1'-0"

LIGHT POLE GENERAL NOTES

FOUNDATIONS

1. DRILLED PIER LIGHT POLE FOUNDATIONS ARE DESIGNED PER THE RECOMMENDATIONS OF THE "GEOTECHNICAL INVESTIGATION REPORT, AS NOTED IN THE GENERAL NOTES SECTION OF THE DRAWINGS AND THE SPECIFICATIONS.
2. DRILLED PIER EXCAVATIONS AND FORMS SHALL BE REVIEWED BY THE ARCHITECT PRIOR TO PLACING CONCRETE.
3. BOTTOM OF DRILLED PIER EXCAVATIONS SHALL NOT BE RAISED WITHOUT APPROVAL OF THE ARCHITECT.
4. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF LIGHT POLE FOUNDATIONS.
5. THE SITE SHALL BE PREPARED TO FINAL GRADE ELEVATIONS BEFORE DRILLING FOR LIGHT POLE FOUNDATIONS.
6. DRILLED PIER FOUNDATIONS FOR LIGHT POLES ARE DESIGNED FOR A MINIMUM ULTIMATE VERTICAL SKIN FRICTION CAPACITY OF 210 PSI AND ARE NOT CONSIDERED TO BE END-BEARING.

DRILLED PIER CONSTRUCTION

1. CONSTRUCTION OF DRILLED PIERS SHALL BE BY NONDISPLACEMENT METHODS.
2. THE CONCRETE FOR DRILLED PIERS MAY BE PLACED BELOW THE SURFACE OF STILL WATER BY MEANS OF A PROPERLY OPERATED TREMIE TUBE, CONCRETE PUMP, OR BOTTOM DUMP BUCKET. CONCRETE MAY BE PLACED IN A SIMILAR MANNER IN A SLURRY FILLED EXCAVATION. CONCRETE SHALL BE HANDLED IN SUCH A MANNER THAT FRESH CONCRETE ENTERING THE SHAFT DOES SO AT A POINT BELOW THE TOP OF THE MASS OF WET CONCRETE IN ORDER THAT IT SHALL BE NOT MIXED WITH THE WATER OR SLURRY FILLING THE HOLE. AS SOON AS AN ADEQUATE SEAL HAS BEEN EFFECTED THE WATER OR SLURRY REMAINING ON TOP OF THE CONCRETE SHALL BE PUMPED OUT AND THE REST OF THE DRILLED PIER CONCRETED.
3. THE EXCAVATION FOR DRILLED PIERS SHALL BE PROTECTED AGAINST CAVING OR SLOUGHING BY TEMPORARY STEEL LINERS THAT MAY BE REMOVED AS THE CONCRETE IS PLACED. THE SURFACE OF THE WET CONCRETE SHALL REMAIN AT LEAST 4' ABOVE THE BOTTOM OF THE LINER WHILE THE LINERS ARE BEING WITHDRAWN.

CONCRETE

1. CONCRETE SHALL DEVELOP 4000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS.
2. CONCRETE WORK SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318.
3. CHAMFER EXPOSED EDGES OF CONCRETE 3/4 INCH.
4. SEE ARCHITECTURAL DRAWINGS FOR REQUIRED FINISHES.

GROUT

1. PROVIDE NON-SHRINK, NON-METALLIC, NON-STAINING, HIGH-STRENGTH GROUT UNDER ALL LIGHT POLE COLUMN BASE PLATES. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL DETAILS.

DESIGN LIVE LOADS

1. LIGHT POLE WIND AND GRAVITY REACTIONS AS SHOWN ON THIS DRAWING WERE PROVIDED BY WILLIAM G. ROBINSON CONSULTING ENGINEERS, INC.
   A. WIND 120 MPH (BASIC WIND VELOCITY).
   B. Cs = 0.03

CONSTRUCTION SAFETY

1. THESE STRUCTURAL DRAWINGS DO NOT CONTAIN NECESSARY COMPONENTS FOR SAFETY DURING CONSTRUCTION.

DIMENSIONS

1. LIGHT POLE MANUFACTURER SHALL PROVIDE DETAILS OF BASE PLATES AND ANCHOR BOLTS.

SLAB-ON-GRADE NOTES

1. UNLESS OTHERWISE NOTED, THE CONCRETE SLAB-ON-GRADE SHALL COMPLY WITH THE FOLLOWING:
   THICKNESS: 4" INTERIOR
   REINFORCING: 6 x 6 - W4 0x W4.0 W.W.F. IN MATS, NOT ROLLS, PLACED 1" CLEAR FROM TOP SURFACE
   VAPOR BARRIER: 10 MIL CLASS A POLYETHYLENE PLACED ON TOP OF STONE BASE
   STONE BASE: 4" COMPACTED WASHED STONE

   THICKNESS: 4" EXTERIOR
   REINFORCING: #4 AT 16" O/C PLACED 1" CLEAR FROM TOP SURFACE
   STONE BASE: 4" COMPACTED WASHED STONE

   THICKNESS: 6" INTERIOR
   REINFORCING: #4 AT 16" O/C PLACED 1" CLEAR FROM TOP SURFACE
   VAPOR BARRIER: 10 MIL CLASS A POLYETHYLENE PLACED ON TOP OF STONE BASE
   STONE BASE: 4" COMPACTED WASHED STONE

   THICKNESS: 6" EXTERIOR
   REINFORCING: #4 AT 16" O/C PLACED 1" CLEAR FROM TOP SURFACE
   STONE BASE: 4" COMPACTED WASHED STONE
2. SEE ALL TYPICAL DETAILS SHOWING CONSTRUCTION RELATED TO SLABS-ON-GRADE INCLUDING THOSE INDICATED BELOW:
   "SLAB-ON-GRADE JOINTS" SEE DETAIL 5/S7.2
   "SLAB-ON-GRADE REINFORCING" SEE DETAIL 4/S7.2
3. JOINTS:
   A. SLAB CONSTRUCTION JOINTS SHALL BE LOCATED AT INDICATED CONTROL JOINT LOCATIONS. ALL CONSTRUCTION JOINTS SHALL HAVE DOWELS.
   B. COORDINATE ALL SLAB JOINT LOCATIONS WITH JOINTS IN ARCHITECTURAL FLOOR FINISHES TO ASSURE THAT ALIGNMENT IS APPLICABLE.
4. SLAB DEPRESSIONS: DEPRESSED AREAS ARE SHOWN ON THE PLAN FOR ESTIMATING PURPOSES ONLY. LOCATIONS AND DEPTHS OF ALL SLAB DEPRESSIONS SHALL BE DETERMINED IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS.
5. SLAB SLOPES: SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FLOOR DRAINS AND SLOPED SLAB AREAS. SLOPE SURFACE UNIFORMLY TO DRAIN. SLOPED SLABS WHICH POND WATER SHALL BE REPLACED.

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SCO PROJECT NO. 22-24384-01A
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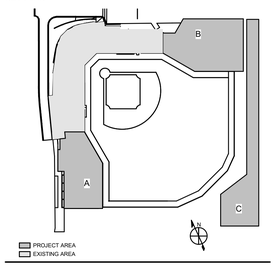
KEY PLAN



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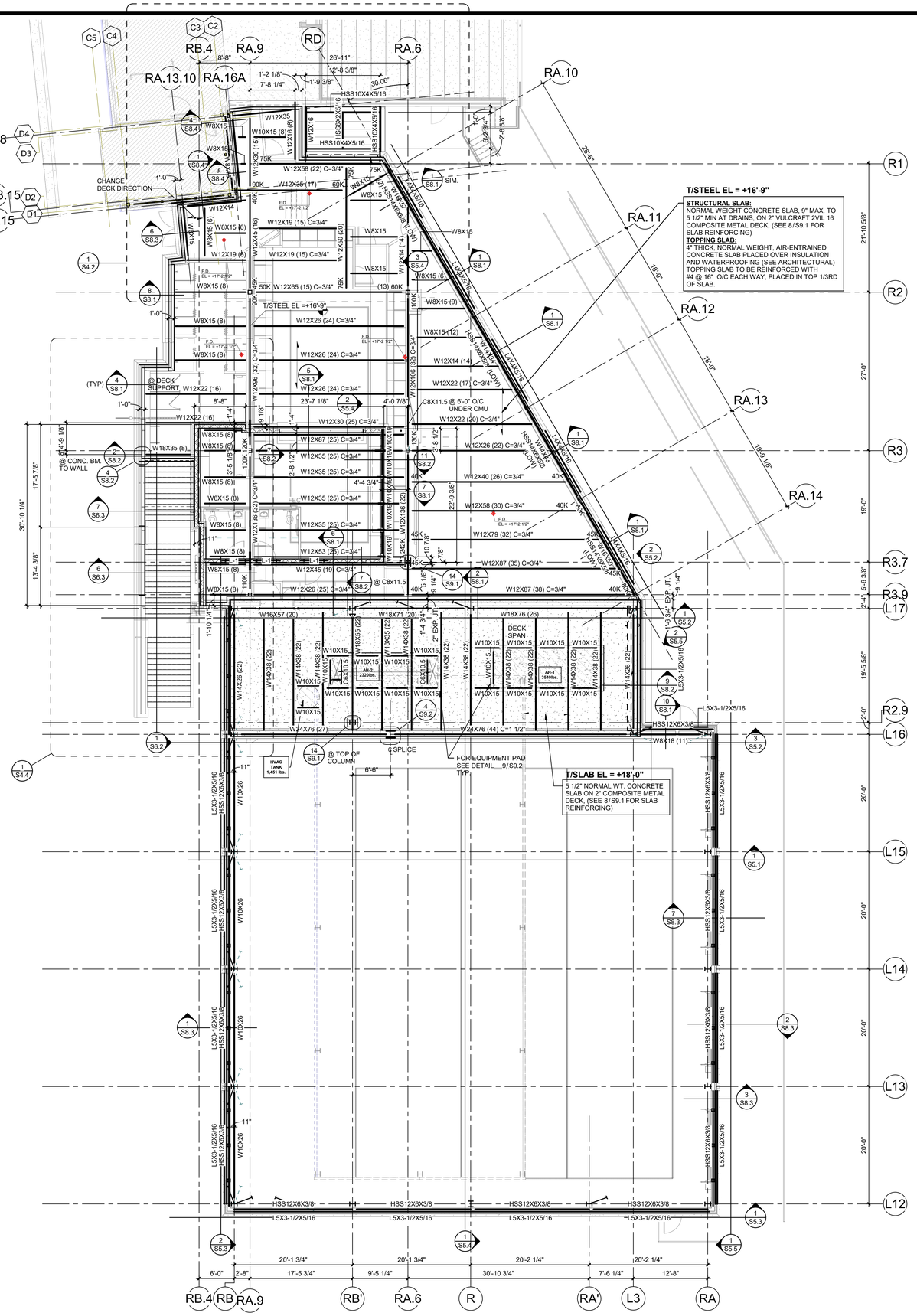
DRAWN BY	KAT	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	As indicated

DRAWING NAME
FIRST FLOOR PLAN - RIGHT FIELD

FLOOR/SECTION	PHASE	DRAWING NO.
	BID	S2.2

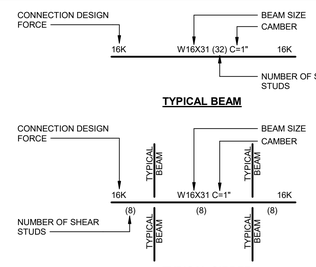


LEVEL 2 - FLOOR FRAMING PLAN - RIGHT FIELD

2 / S3.1

1/8" = 1'-0"

COMPOSITE BEAM LEGEND



NOTE:
FOR BEAMS SUPPORTING COMPOSITE SLAB WITH NO STUDS CALLED OUT, PROVIDE STUDS @ 12" O/C. (TYP.)

UNLESS NOTED OTHERWISE THE FOLLOWING DESIGN REACTIONS

W8 = 15K	W16 = 60K
W10 = 20K	W18 = 70K
W12 = 35K	W24 = 100K
W14 = 45K	

COMPOSITE BEAM NOTES

1. ALL STEEL FLOOR BEAMS WITH STUDS AND REACTIONS NOTED ON PLAN ARE DESIGNED AS "COMPOSITE" MEMBERS. FOR COMPOSITE MEMBERS, THE CONCRETE FLOOR SLAB SHALL BE STRUCTURALLY ANCHORED TO THE STEEL BEAMS USING HEADED STUDS WELDED TO TOP FLANGE OF BEAMS AS NOTED ON THESE DRAWINGS.
2. THE FOLLOWING SYMBOLS ARE USED ON THE FLOOR PLANS TO REPRESENT COMPOSITE BEAM INFORMATION:
   - A. ..K **FACTORED** BEAM REACTION IN KIPS FOR USE IN CONNECTION DESIGN.
   - B. (...) NUMBER OF STUDS
   - C. C=...." UPWARD CAMBER (INCHES)
3. HEADED STUDS:
   - A. STUDS SHALL BE ATTACHED TO TOP FLANGE OF BEAMS IN ACCORDANCE WITH AWS D1.1 USING THE AUTOMATIC MACHINE WELDING TECHNIQUE. STUDS MAY BE WELDED THROUGH NO MORE THAN TWO LAYERS OF METAL DECKING. AFTER WELDING, ARC SHIELDS SHALL BE BROKEN FREE FROM STUDS AND REMOVED FROM CONCRETE PLACEMENT AREA. INSTALLED STUDS SHALL PASS VISUAL INSPECTION AND BEND TESTING.
   - B. THE TYPICAL HEADED STUD SHALL BE 3/4" DIA. x4", UNLESS NOTED OTHERWISE.
   - C. STEEL BEAMS WHICH SUPPORT THE CONCRETE FLOOR SLAB AND DO NOT HAVE STUDS INDICATED SHALL HAVE STUDS INSTALLED AT 24" O/C
   - D. SEE TYPICAL DETAIL FOR STUD SPACING ON BEAM.
4. CONNECTIONS: THE BEAM END CONNECTIONS SHALL BE DESIGNED FOR THE REACTIONS NOTED ON THE DRAWINGS, BUT NOT LESS THAN THAT REQUIRED BY THE TYPICAL FRAMING CONNECTION DETAIL.

STEEL COLUMN CAP PLATE NOTES

1. UNLESS OTHERWISE NOTED, THE TOP OF COLUMNS SHALL BE 1" BELOW THE TOP OF THE UPPERMOST BEAM CONNECTED TO THE COLUMN WHEN A CAP PLATE IS NOT USED. WHEN A CAP PLATE IS USED, IT SHALL BE AT THE JOIST BEARING ELEVATION, UNLESS OTHERWISE NOTED.
2. PROVIDE 1/2" THICK CAP PLATE ON ALL COLUMNS WHICH SUPPORT BAR JOISTS. TOP OF PLATE TO MATCH TOP OF STEEL OF ADJACENT BEAMS WHICH SUPPORT JOISTS.
3. PROVIDE 1/2" THICK CAP PLATE ON ALL COLUMNS AT CORNERS OF ROOF DECK AREA. TOP OF PLATE SHALL BE AT DECK BEARING ELEVATION.

FRAMING PLAN NOTES:

1. SEE SHEET S1.1 FOR ABBREVIATIONS, DRAWING LEGENDS AND SHEET INDEX.
2. SEE SHEET S1.2 FOR GENERAL NOTES.
3. SEE SHEETS S1.3 THRU S1.4 FOR SPECIAL INSPECTIONS.
4. FOR DIMENSIONS NOT SHOWN SEE FOUNDATION PLAN OR ARCHITECTURAL DRAWINGS.
5. SEE SHEETS S9.1 THRU S9.3 FOR TYPICAL FRAMING DETAILS.
6. SEE SHEET S5.1 FOR TRUSS ELEVATION.
7. SEE SHEETS S5.2 THRU S5.5 FOR BUILDING ELEVATIONS.
8. SEE SHEETS S7.3 & S7.4 FOR TYPICAL MASONRY DETAILS.
9. ALL BEAMS SHALL BE SPACED EQUALLY IN COLUMN BAYS TYPICAL (U.N.O.) ON PLANS.

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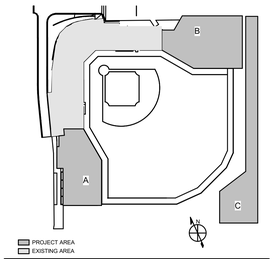
SKA Project Number
Phase

NORTH CAROLINA PROFESSIONAL SEAL 042304 ENGINEER AARON B. BOPP 09-03-24

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

KEY PLAN



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PROJECT MANAGER
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2	KAT	FINAL DOCUMENT 2	08/12/2024
1	KAT	FINAL DOCUMENTS	07/19/2024
	KAT	CONSTRUCTION DOCUMENTS	04/26/2024
	KAT	PACKAGE A - LEFT & RIGHT FIELD ADDITIONS	01/29/2024

NC STATE UNIVERSITY

DOAK FIELD ENHANCEMENT
1081 Varsity Dr
Raleigh, NC 27606

DRAWN BY	KAT	DATE	09/03/2024
PROJECT NO.	20220400	SCALE	As indicated

DRAWING NAME
LEVEL 2 FLOOR FRAMING PLAN - RIGHT FIELD

FLOOR/SECTION	PHASE	DRAWING NO.
	BID	S3.1

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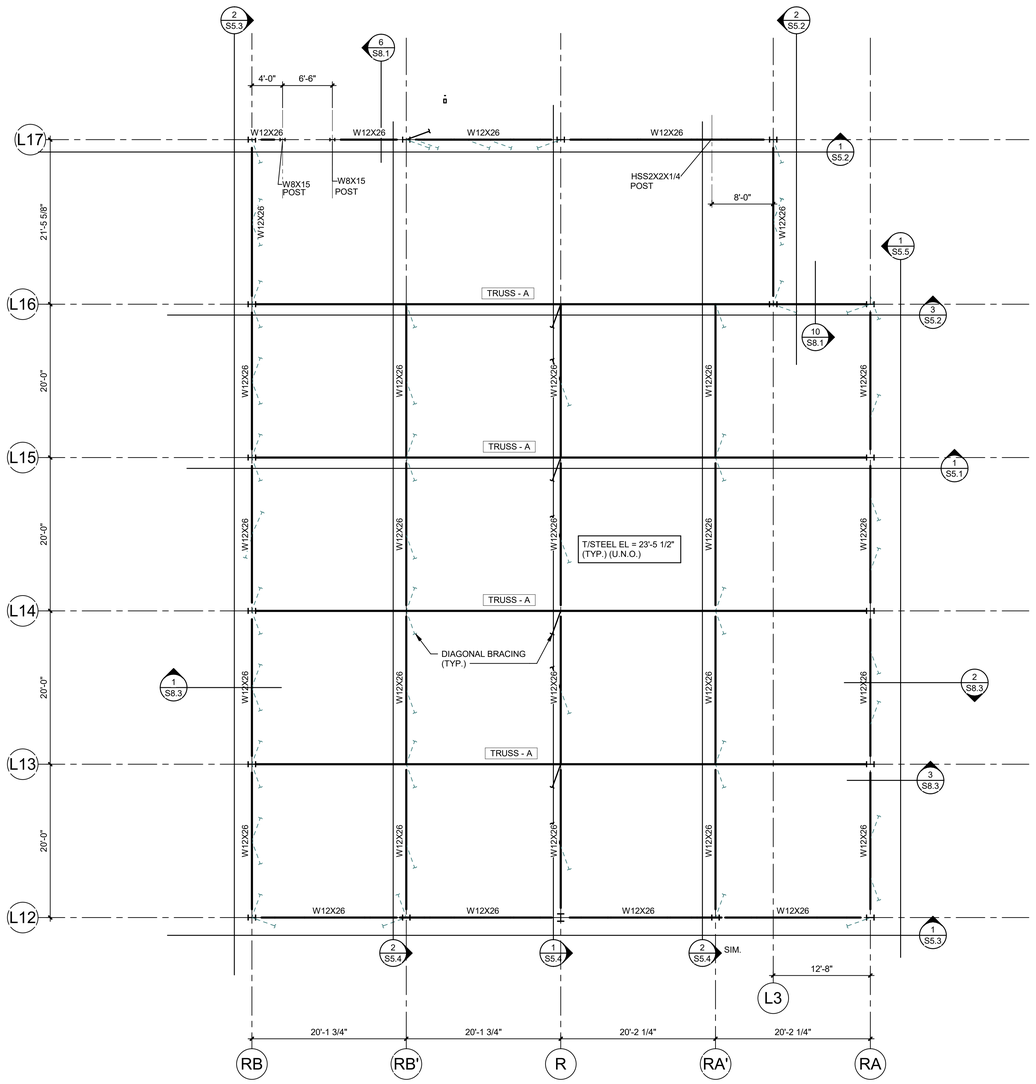

1 S3.2 TRUSS BOTTOM CHORD FRAMING - RIGHT FIELD
1/8" = 1'-0"

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SKA Project Number
Phase

NORTH CAROLINA PROFESSIONAL SEAL 034394 ENGINEER AARON B. BOPP 09-03-24

SCO PROJECT NO. 22-24384-01A
NC STATE PROJ. NO. 202120015

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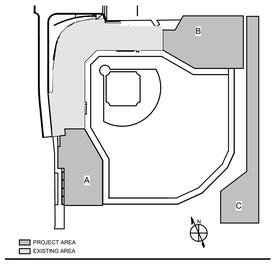

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DRAWN BY KAT DATE 09/03/2024
PROJECT NO. 20220400 SCALE 1/8" = 1'-0"
DRAWING NAME

BOTTOM TRUSS CHORD FRAMING PLAN - RIGHT FIELD

FLOOR/SECTION PHASE DRAWING NO.
BID S3.2

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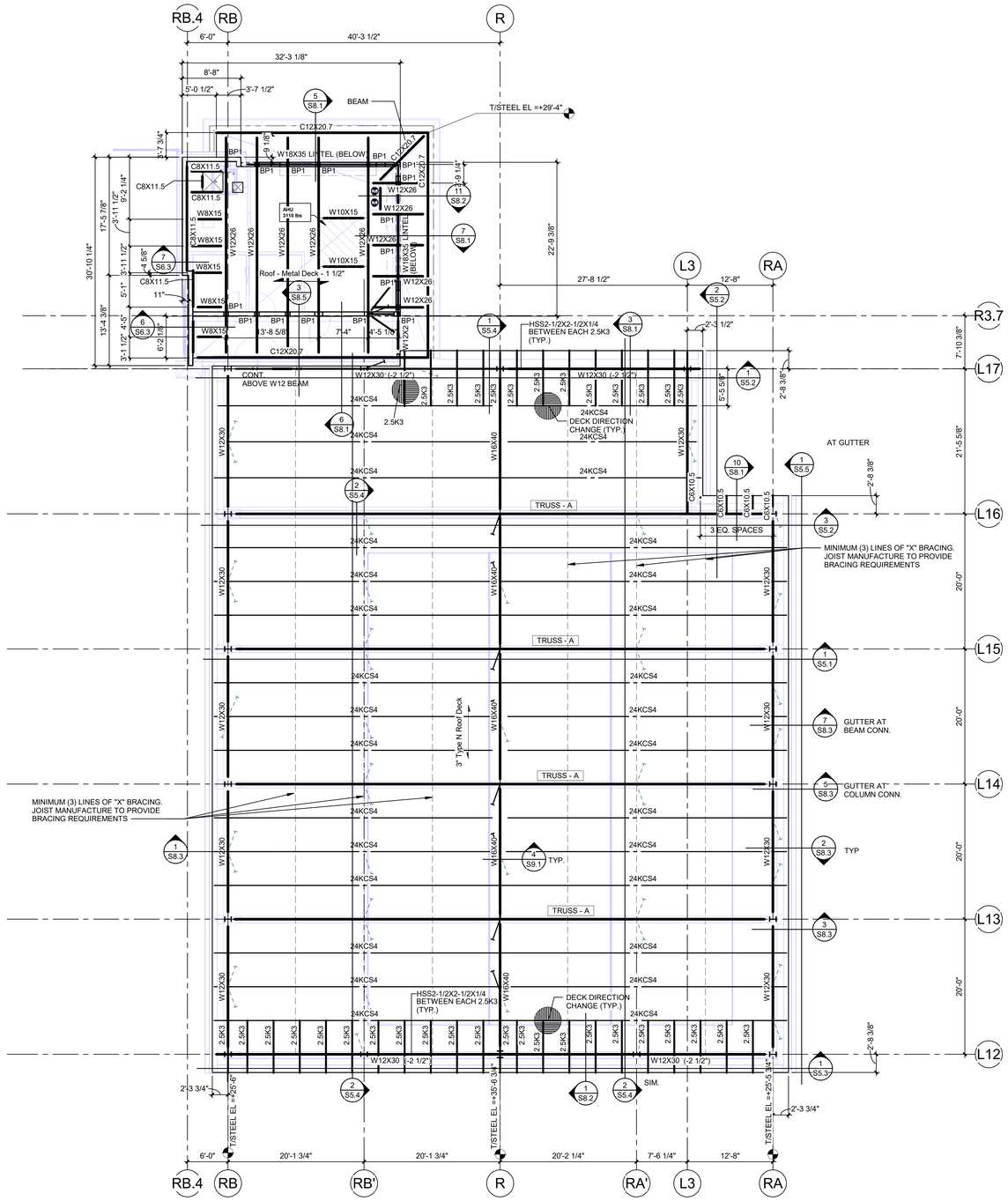
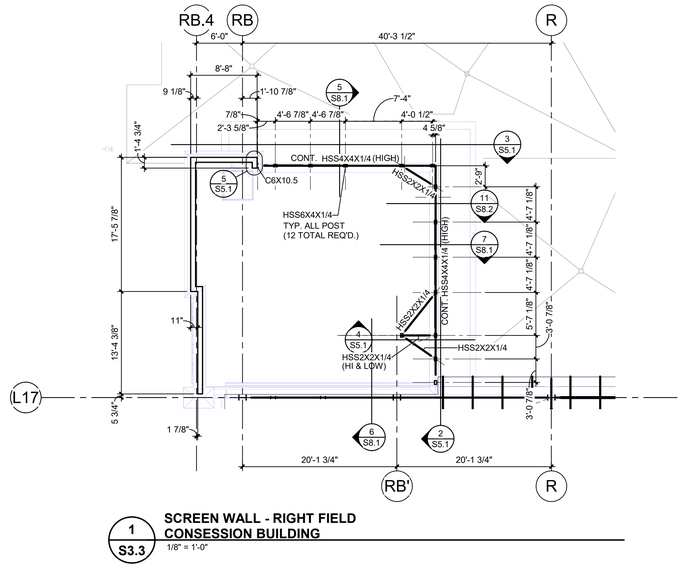


2 S3.3 **ROOF FRAMING PLAN - RIGHT FIELD**
1/8" = 1'-0"

FRAMING PLAN NOTES:
1. SEE SHEET S1.1 FOR ABBREVIATIONS, DRAWING LEGENDS AND SHEET INDEX.
2. SEE SHEET S1.2 FOR GENERAL NOTES.
3. SEE SHEETS S1.3 THRU S1.4 FOR SPECIAL INSPECTIONS.
4. FOR DIMENSIONS NOT SHOWN SEE FOUNDATION PLAN OR ARCHITECTURAL DRAWINGS.
5. SEE SHEETS S9.1 THRU S9.3 FOR TYPICAL FRAMING DETAILS.
6. SEE SHEET S5.1 FOR TRUSS ELEVATION.
7. SEE SHEETS S5.2 THRU S5.5 FOR BUILDING ELEVATIONS.
8. SEE SHEETS S7.3 & S7.4 FOR TYPICAL MASONRY DETAILS.
9. ALL BEAMS SHALL BE SPACED EQUALLY IN COLUMN BAYS TYPICAL (U.N.O.) ON PLANS.



1 S3.3 **SCREEN WALL - RIGHT FIELD**
CONSESSION BUILDING
1/8" = 1'-0"

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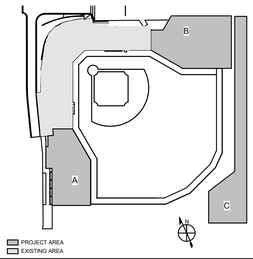

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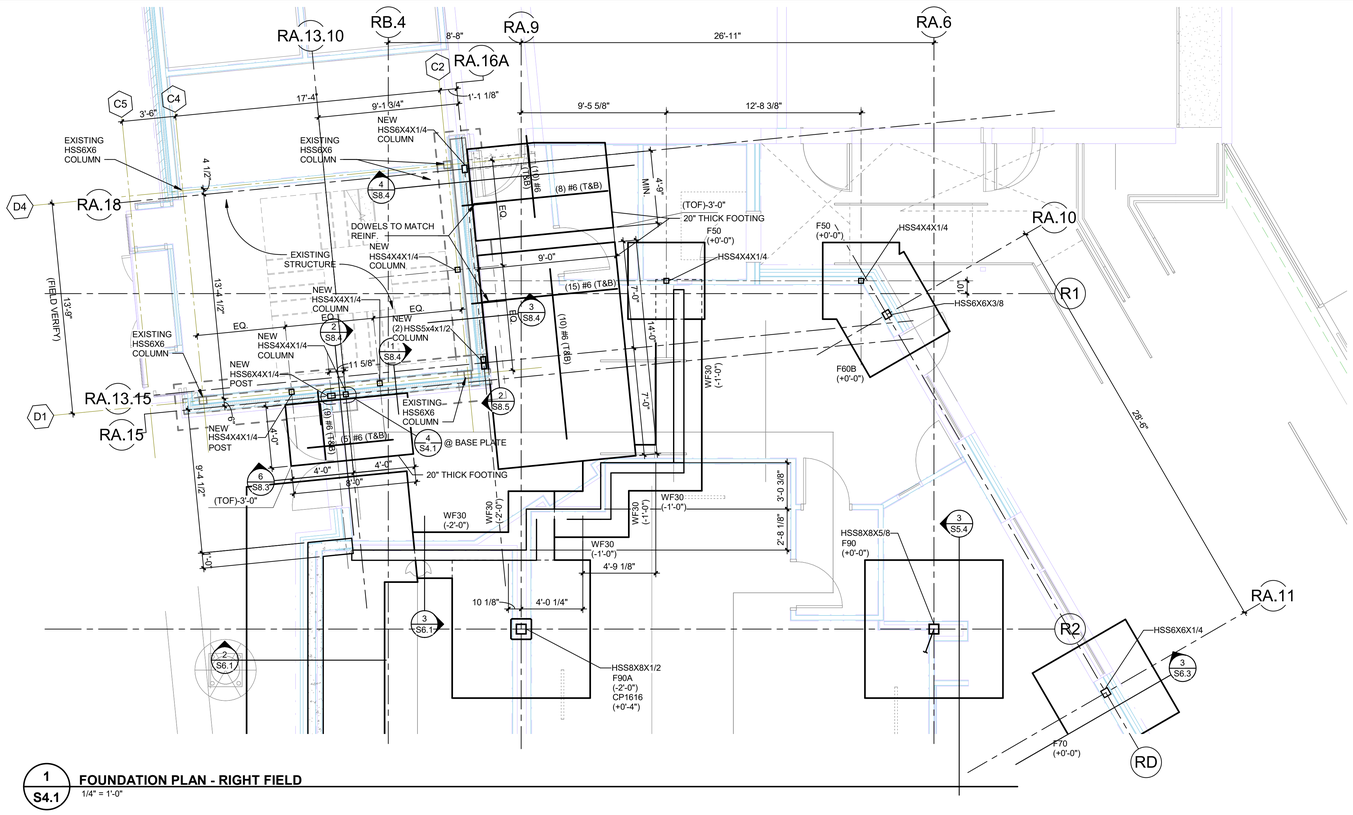
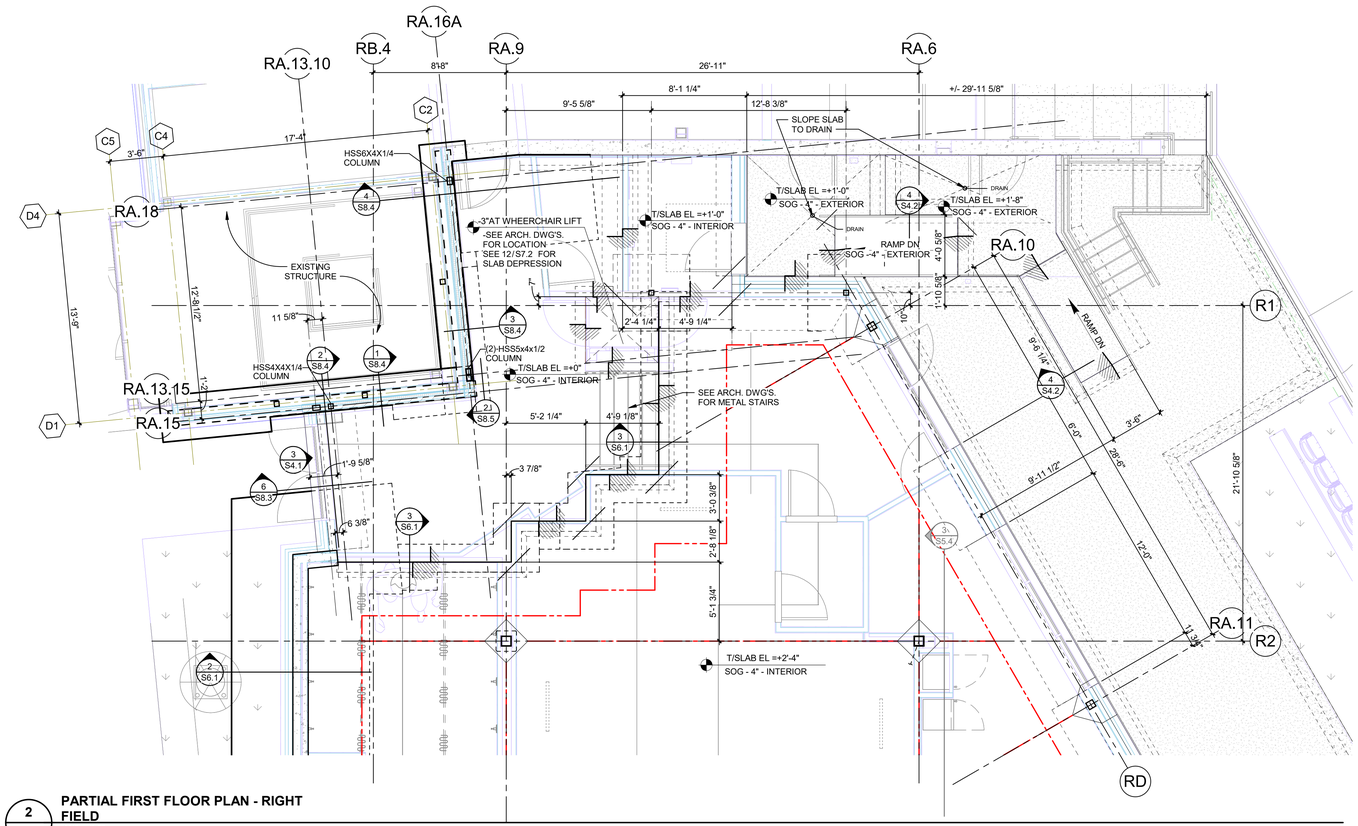
DRAWN BY KAT DATE 09/03/2024
PROJECT NO. 20220400 SCALE 1/8" = 1'-0"
DRAWING NAME
ROOF FRAMING PLAN - RIGHT FIELD

FLOOR/SECTION PHASE BID
DRAWING NO. S3.3



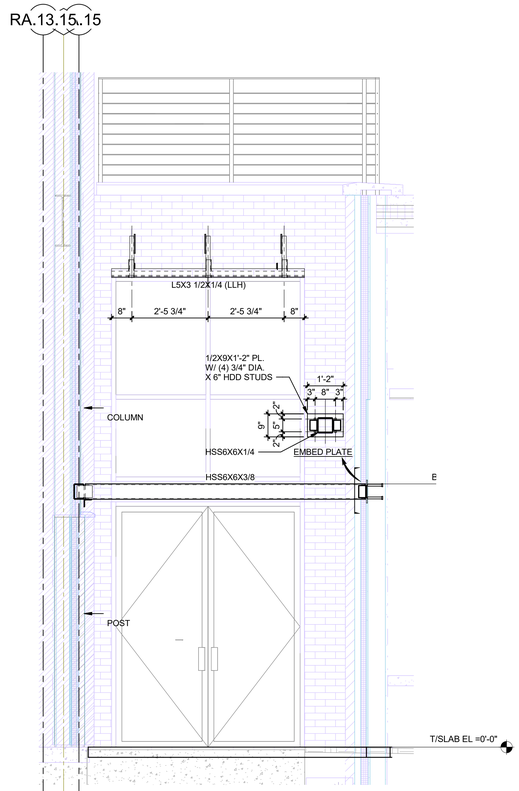
1 **S4.1** **FOUNDATION PLAN - RIGHT FIELD**
1/4" = 1'-0"



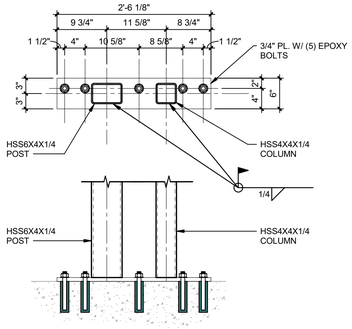
2 **S4.1** **PARTIAL FIRST FLOOR PLAN - RIGHT FIELD**
1/4" = 1'-0"

SPREAD FOOTING NOTES

1. COLUMN FOOTINGS: SEE FOOTING SCHEDULE.
2. WALL FOOTINGS: UNLESS OTHERWISE INDICATED, ALL WALL FOOTINGS SHALL BE 1'-0" DEEP AND PROJECT 6" BEYOND EACH FACE OF THE SUPPORTED WALL. REINFORCING FOR SUCH FOOTINGS SHALL CONSIST OF (1) #5 CONTINUOUS LONGITUDINAL BAR FOR EACH FULL OR PARTIAL FOOT OF FOOTING WIDTH AND #4 TRANSVERSE BARS AT 48" O.C. MINIMUM FOOTING WIDTH SHALL BE 2'-0" WITH (3) #5 CONT.
3. SEE ALL TYPICAL DETAILS SHOWING CONSTRUCTION RELATED TO FOOTINGS INCLUDING THOSE INDICATED BELOW:
   - "COLUMN BASE & ISOLATION JOINT". SEE DETAIL 12/S7.1
   - "COLUMN PIER". SEE DETAIL 6/S7.1
   - "COLUMN ANCHORAGE" SEE DETAIL 2/S7.1, 3/S7.1, AND 4/S7.1
   - "STEP FOOTING" SEE DETAIL 1/S7.2
4. FOOTING ELEVATIONS SHOWN ON PLAN ARE FOR ESTIMATING PURPOSES AND MAY BE VARIED TO SUIT SITE, SOIL, OR UNDERGROUND UTILITY CONDITIONS AS FOLLOWS:
   A. THE TOP OF ALL EXTERIOR FOOTINGS ARE TO BE A MINIMUM OF 2'-0" BELOW THE FINISH GRADE, COORDINATE WITH SITE PLAN. IN NO CASE SHALL TOP OF FOOTING ELEVATIONS BE HIGHER THAN INDICATED ON PLAN. PRIOR TO CONSTRUCTION, NOTIFY THE ENGINEER OF ALL FOOTING ELEVATIONS THAT VARY FROM THOSE SHOWN ON THE PLAN.
   B. COORDINATE FOOTING ELEVATIONS WITH UNDERGROUND UTILITIES. UNDERGROUND UTILITIES WHICH CROSS WALL FOOTINGS SHALL CROSS AT AN ANGLE OF NO MORE THAN 45 DEGRESS FROM PERPENDICULAR. UNLESS OTHERWISE SHOWN OR APPROVED BY THE DESIGNER, THE MINIMUM CLEARANCE OF UNDERGROUND PIPES AND UTILITIES WHICH CROSS BELOW WALL FOOTINGS SHALL BE 8", OTHERWISE THE FOOTING SHALL BE STEPPED DOWN SO THAT THE PIPES MAY PASS ABOVE THE FOOTING AND THROUGH THE WALL. ANY PIPES WHICH MUST PASS UNDERNEATH A WALL FOOTING ARE TO BE INSTALLED PRIOR TO THE CONSTRUCTION OF THE FOOTING AND THE TRENCH BACKFILLED AND COMPACTED AS REQUIRED.
   C. UNLESS OTHERWISE APPROVED BY THE DESIGNER, NO EXCAVATION SHALL OCCUR BELOW A SPREAD FOOTING WITHIN A ZONE DEFINED BY A PLANE SLOPING DOWNWARD AT A 1:1 SLOPE FROM THE BOTTOM EDGES OF THE FOOTING ON ALL SIDES.
5. ALL FOOTING REINFORCING SHALL BE SUPPORTED ON THE SPECIFIED CHAIRS ON THE SOIL AND SHALL BE SECURED AGAINST LATERAL MOVEMENT.
6. IF RAINFALL OR GROUNDWATER INTRUSION IS IMMINENT BEFORE PLACEMENT OF CONCRETE IN FOOTING EXCAVATIONS, A 2" THICK "MUD MAT" OF LEAN CONCRETE SHALL BE PLACED IN THE EXCAVATION AFTER OVEREXCAVATING 2" IN DEPTH. FOR LIGHT PRECIPITATION CONDITIONS, PROTECT BOTTOM AND SIDES OF EXCAVATION WITH TEMPORARY 6 MIL POLYETHYLENE LINING. ANY SOIL WHICH IS SOFTENED DUE TO MOISTURE EXPOSURE SHALL BE UNDERCUT TO FIRM SOIL AND THE DEPTH OF THE FOOTING SHALL BE INCREASED TO REPLACE THE SOFT SOIL THAT WAS REMOVED.



3 **S4.1** **ELEVATION AT LOWER LOBBY MAIN ENTRY**
1/2" = 1'-0"



4 **S4.1** **DETAIL AT BASE PLATE**
1" = 1'-0"

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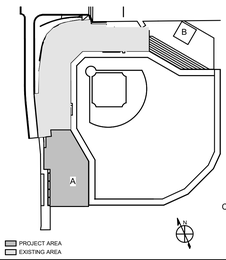

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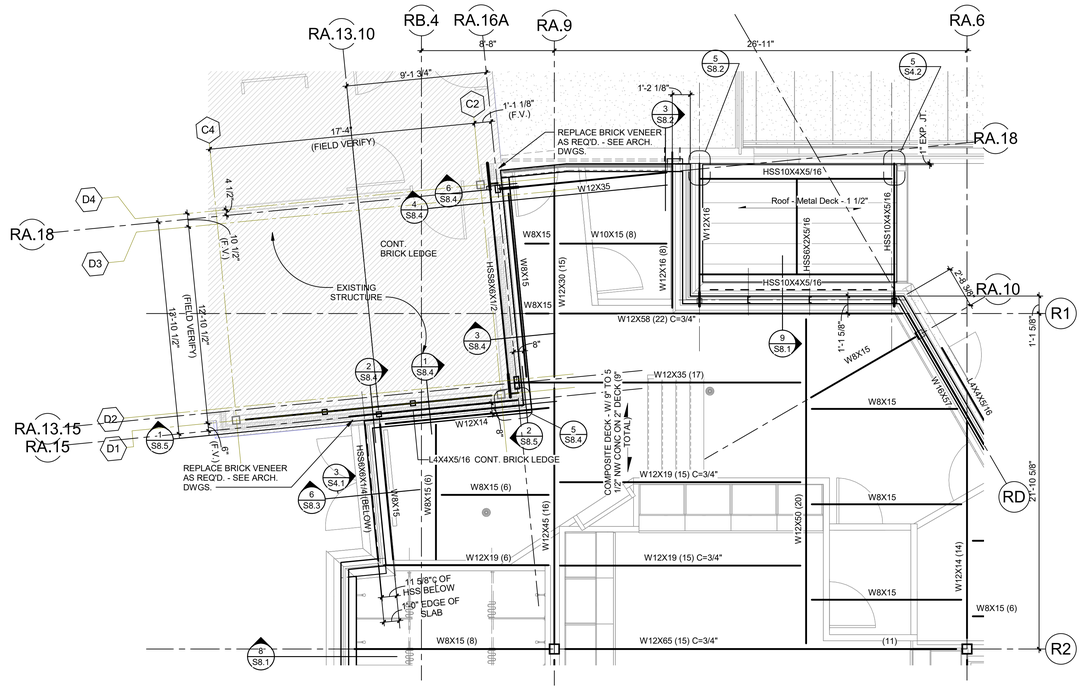
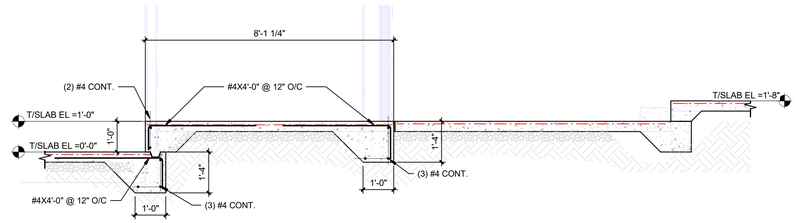
DRAWING NAME
LARGE SCALE PLANS - RIGHT FIELD

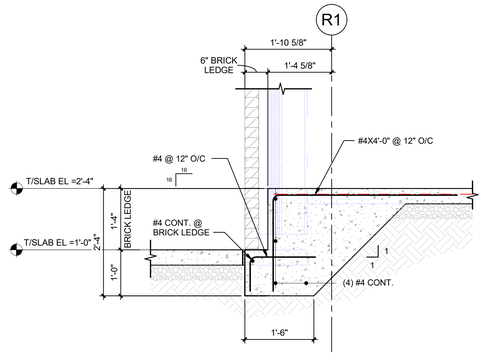
FLOOR/SECTION PHASE	DRAWING NO.
BID	S4.1



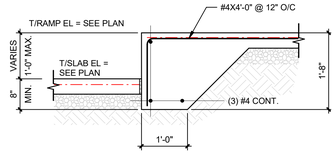
1 / S4.2 PARTIAL LEVEL 2 - FLOOR FRAMING PLAN - RIGHT FIELD
1/4" = 1'-0"



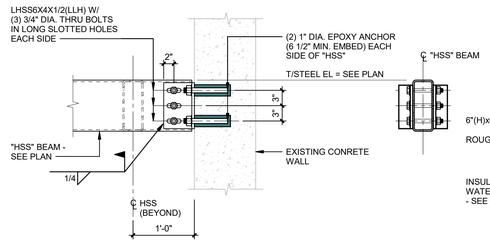
2 / S4.2 SECTION
1/2" = 1'-0"

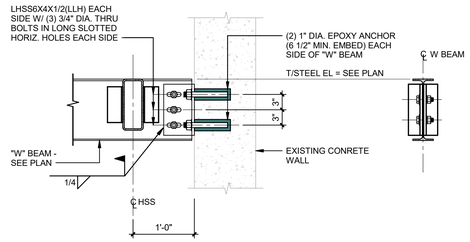


3 / S4.2 SECTION
3/4" = 1'-0"

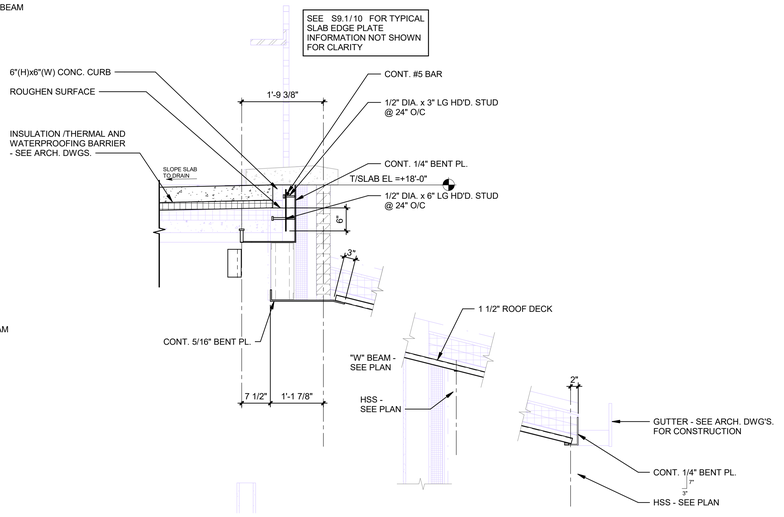


4 / S4.2 SECTION
3/4" = 1'-0"





5 / S4.2 SECTION
1" = 1'-0"



6 / S4.2 SECTION THRU CANOPY
3/4" = 1'-0"

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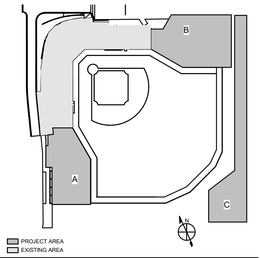

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