

**Ample Storage Center**  
**6839 Knightdale Blvd**  
**Knightdale, NC 27545**  
**Proposed Indoor Self Storage**  
Proposed +/-28,800 SF, 3-Story Indoor Self-Storage Building  
**Master Plan Submittal**  
**Comprehensive Plan Consistency**  
May 21, 2024

**General Narrative**

Ample Storage Center, located at 6839 Knightdale Blvd, desires to expand their existing facility on the north end of their property (Parcel # 1744868623). Enclosed is the Sketch Plan for review.

The existing facility was developed in two phases. Phase 1 is located at 1107 Great Falls Ct and includes the more traditional one-story exterior storage units. Phase 2 is located at 6839 Knightdale Blvd and includes a multi-story mini-storage building. The proposed development will be the construction of one 29,280 sf, 3-story indoor mini-storage facility (87,840 sf total floor area) at the rear of the property, abutting TRW Electric Supply and the Wake Stone Corporation quarry.

The project area is currently wooded. No other environmental features are present on site. Proposed development is consistent with the existing development on the same parcel. The project area is bounded on two sides by the existing quarry and a third side by the existing on-site development. The final side adjoins TRW Electric Supply and will include preservation of the existing wooded area as part of the requisite screening buffer. The existing and proposed tree lines are shown on the Natural Resources Sketch Plan.

The proposed development will be accessed via the existing Phase 1 entrance at the end of Great Falls Ct. The proposed use will likely not increase traffic demand along the street significantly, and will not require any additional public infrastructure outside of fire protection.

Given that the proposed development matches the existing development on site, and given the adjacent land use and site location, the proposed indoor mini-storage facility fits within the spirit of the Knightdale Comprehensive Plan. Detailed reasonings are discussed below.

**Growth Framework Map Consistency**

The site is located within existing town limits. The project area is described as a 2-acre section of a 7-acre parcel (zoned MI). Existing development on the property includes 95,600 sf of self-storage (Mini-Warehouses).

**Growth & Conservation Map Consistency**

The site is located within a Retail place type category. Adjacent land uses, along with the designated place type from the published map are as follows:

- Site: Ample Storage (Retail)
- North & West: Wake Stone Corporation – Knightdale Quarry (Heavy Industrial).
- Northeast: TRW Electric and Supply Company (Retail).
- East: Auto DRS (Light Industrial)  
Tractor Supply Company (Retail)
- Southeast: Knightdale Pediatrics (Retail).

The growth map designates the property for commercial development (retail). The proposed development is allowed under the UDO zoning and is consistent with existing development.

Given the location and surrounding uses, the proposed office development is consistent with and promotes the vision of the Growth & Conservation Map.

**Trails & Greenways Map Consistency**

The site is not located adjacent to any existing or proposed trails, greenways, bicycle routes, parks or open space located within or adjacent to the site, it is consistent with the Trails & Greenways Map.

**Street Network Map Consistency**

Existing development abuts Knightdale Blvd (NCDOT arterial) and Great Falls Ct. Development will be accessed via the exiting driveway at the end of the cul-de-sac on Great Falls Ct (city). The proposed development (mini-warehouses) will not significantly increase the number of trips along Great Falls Ct. Due to the nature of both the existing and proposed development, pedestrian and bike traffic will be very minimal, if ever. Any increase in vehicular traffic will not pose any risks to either group. The proposed development is consistent with the street network plan.



## **Transit Network**

The project area is not located along any planned transit route. As noted above, demand for transit use will be virtually non-existent for either the existing or proposed uses along Great Falls Ct. The proposed development fits the overall transit network plan.

## **Focus Area Studies**

The project area is not located within any existing Focus Area Study.

## **Water Allocation**

As the proposed development is an expansion of the existing mini-storage facility, no new office/residential facilities are included. Customers will have access to bathroom facilities in the Phase 2 building. No water connections will be used to provide any janitorial services. Submitted plans show only a fire line as part of development. No water demand will be needed to be allocated for the proposed development.



CIVIL ENGINEER

Rivers & Associates, INC.  
Greenville, NC



107 East Second Street  
Greenville, NC 27858  
(252) 752-4135

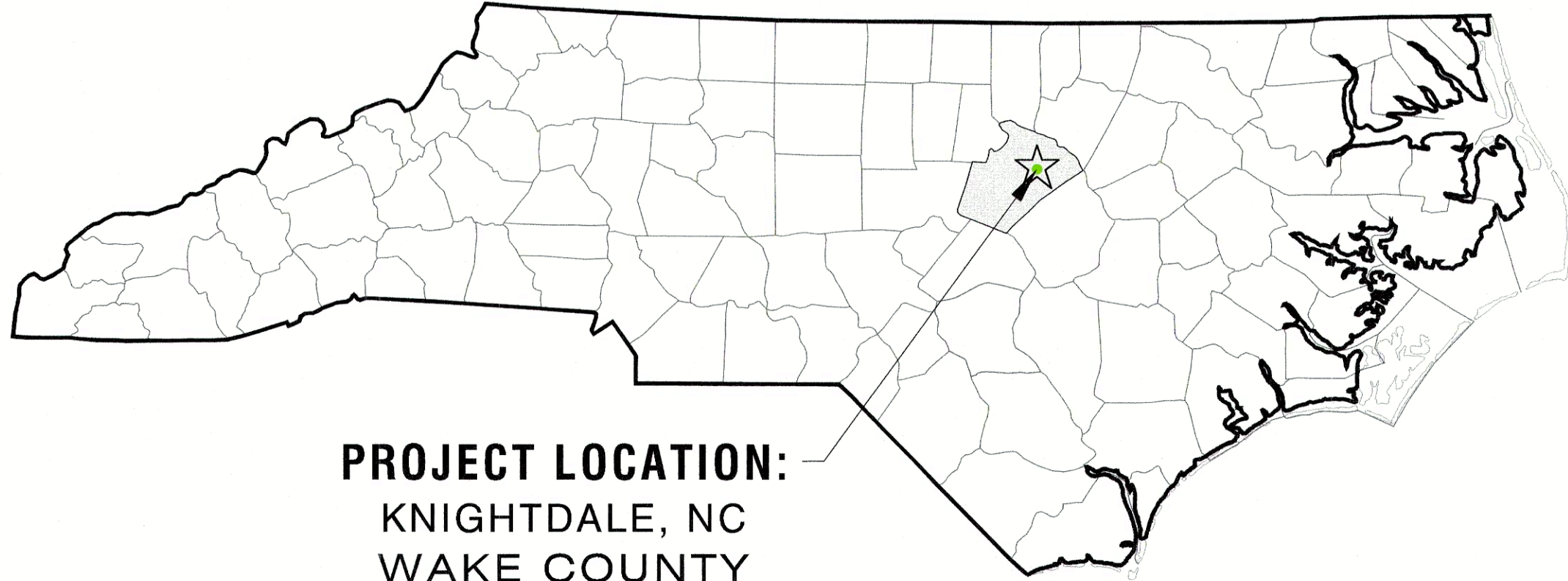
Contact: MATTHEW J. PROKOP, PE  
mprokop@riversandassociates.com

OWNER/DEVELOPER

AMPLE STORAGE LAKE  
WORTH LLC

P.O. BOX 608  
SMITHFIELD, NC 27577-0608

Contact: TERRY WETINGTON  
(252) 670-2664  
terryw@lampmanagement.com



PROJECT LOCATION:  
KNIGHTDALE, NC  
WAKE COUNTY

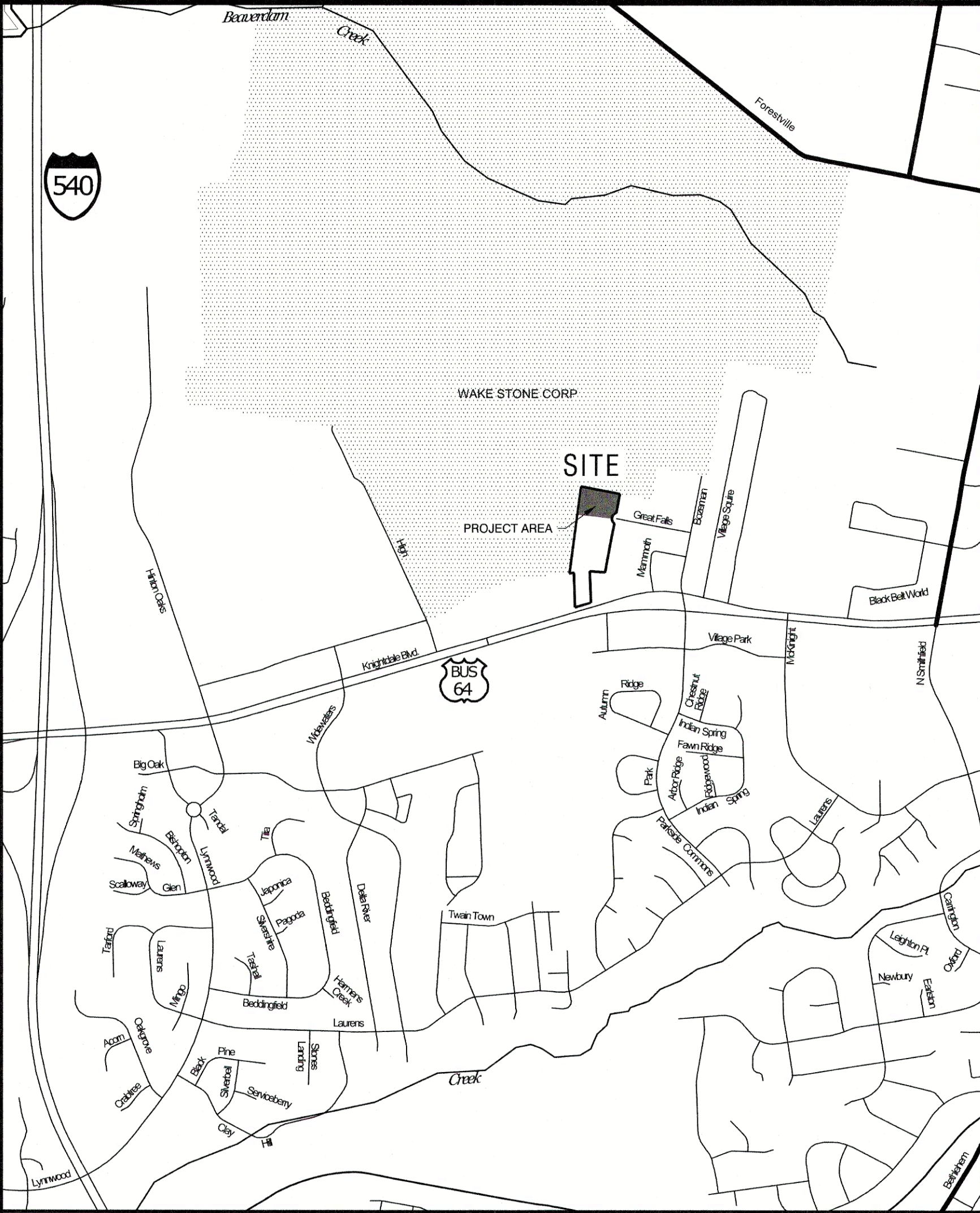


MASTER PLAN (TOK Project # ZMA-5-23)  
**AMPLE STORAGE  
EXPANSION**

REVISIONS:

NO.	DESCRIPTION	DATE	BY
3	MASTER PLAN COMMENTS	09/23/24	
2	TOWN COUNCIL WORKSHOP	09/03/24	
1	MASTER PLAN - FIRST SUBMITTAL	05/21/24	

SITE DATA	
SITE ADDRESS PHASE 1:	1107 GREAT FALLS COURT KNIGHTDALE, NORTH CAROLINA 27545
SITE ADDRESS PHASE 2:	6839 KNIGHTDALE BLVD. KNIGHTDALE, NORTH CAROLINA 27545
MUNICIPALITY:	ST. MATTHEWS
PARCEL NO.:	1744868623
DEED REFERENCE:	DB 15706, PG 63
AREA IN SITE:	6.98 ACRES (+/- 303,818 SF)
EXISTING USE CLASS./ZONING:	GENERAL COMMERCIAL - HB/MI
PROPOSED USE CLASS./ZONING:	MINI-WAREHOUSES - HB/MI-CD
WATERSHED:	27-29: BEAVERDAM CREEK
RECEIVING STREAM:	C, NSW
TOTAL BUILDING SQUARE FOOTAGE:	95,640 SF EXIST + 87,840 NEW = 183,480 TOTAL SF
BUILDING HEIGHT:	EXISTING = 1 @ 30' (3-STORY), 7 @ 10' (1-STORY) PROPOSED = 30' (3 STORY)
TOTAL NUMBER OF STORAGE UNITS:	EXISTING = ~750 PROPOSED = 977
IMPERVIOUS AREA	
EXISTING BUILDINGS FOOTPRINT:	62,611 SF
EXISTING CONCRETE:	4,197 SF
EXISTING ASPHALT PARKING:	87,965 SF
TOTAL EXISTING IMPERVIOUS AREA:	154,773 SF (3.55 ACRE)
EXISTING:	50.9 %
PROPOSED BUILDING FOOTPRINT:	
PROPOSED CONCRETE:	15,752 SF
TOTAL PROPOSED IMPERVIOUS AREA:	45,032SF (1.03ACRES)
TOTAL IMPERVIOUS AREA:	
TOTAL POST DEVELOPMENT:	199,805 SF (4.59 ACRES)
65.8 %	
PARKING SUMMARY	
EXISTING REQUIREMENTS	MAXIMUM - .25 PER 1,000 SF(95,645 SF) = 23.9 SPACES
MINI-STORAGE:	MINIMUM - ½ OF MAXIMUM() = 12 SPACES
PROPOSED REQUIREMENTS	MAXIMUM - .25 PER 1,000 SF(87,840 SF) = 22 SPACES
MINI-STORAGE:	MINIMUM - ½ OF MAXIMUM() = 11 SPACES
TOTAL PARKING SPACES REQUIRED:	23
TOTAL EXISTING PARKING SPACES:	12
NEW PARKING SPACES REQUIRED:	11
NEW PARKING SPACES PROVIDED:	17
TOTAL PARKING SPACES PROVIDED:	29
EXISTING H/C PARKING SPACES:	2
H/C PARKING SPACES REQUIRED:	1
TOTAL H/C PARKING SPACES PROVIDED:	3
TOTAL BICYCLEPARKING REQUIRED:	2
TOTAL BICYCLEPARKING PROVIDED:	2



Vicinity Map

SCALE: 1" = 1000'

SHEET INDEX	
Sheet Number	Sheet Title
C1.01	COVER SHEET
C1.11	BOUNDARY SURVEY
C1.12	NATURAL RESOURCES MASTER PLAN
C1.21	EXISTING CONDITIONS OVERALL
C1.22	EXISTING CONDITIONS - PROJECT AREA
C2.01	MASTER PLAN OVERALL
C2.10	MASTER PLAN - PROJECT AREA
C2.51	SITE DETAILS
C2.52	DRAFT BUILDING ELEVATIONS
C3.01	UTILITY PLAN
C4.01	GRADING & STORMWATER MANAGMENT PLAN
C4.02	STORMWATER DETAILS
C5.01	SEDIMENTATION & EROSION CONTROL PLAN
C5.11	SEDIMENTATION & EROSION CONTROL NOTES
C5.21	SEDIMENTATION & EROSION CONTROL DETAILS
C5.22	SEDIMENTATION & EROSION CONTROL DETAILS
C6.41	PAVEMENT MARKING, SIGNAGE & TRAFFIC CONTROL PLAN
L1.01	LANDSCAPING PLAN
L2.01	LANDSCAPING DETAILS
SL1.01	LIGHTING DETAILS
SL1.02	SITE LIGHTING PLAN

GENERAL NOTES:

- PROPOSED USE (MINI-WAREHOUSES) WILL REQUIRE CONDITIONAL DISTRICT REZONING PER UDO SECTION 3.1.C.6.I
- NO CHANGES TO ANY ASPECT OF THIS SITE PLAN, INCLUDING BUT NOT LIMITED TO, LANDSCAPING, GRADING, BUILDING ELEVATIONS, LIGHTING OR UTILITIES WILL BE MADE WITHOUT THE APPROVAL OF THE TOWN OF KNIGHTDALE AND THE ENGINEER.
- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE TOWN OF KNIGHTDALE STANDARDS AND SPECIFICATIONS.
- CONTRACTOR MUST NOTIFY ONE CALL CENTER, INC (NC ONE CALL) 1-800-632-4949 AT LEAST 72 HOURS PRIOR TO THE START OF EXCAVATION OR TRENCHING TO HAVE ALL UNDERGROUND UTILITIES LOCATED.
- CONTACT TOWN OF KNIGHTDALE AT 919-217-2255 TO SCHEDULE PRE-CONSTRUCTION MEETING WITH GRADING CONTRACTOR, EROSION CONTROL ADMINISTRATOR, PROJECT ENGINEER AND OWNER. NO PERSON MAY INITIATE A LAND DISTURBING ACTIVITY BEFORE NOTIFYING ALL APPROPRIATE AUTHORITIES TO THE DATE OF SAID ACTIVITY.
- THIS PROPERTY IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA). THIS PROPERTY IS LOCATED IN ZONE X, AS SHOWN ON FIRM PANEL NUMBER 3720174400K, DATED JULY 19, 2022.
- WETLANDS AND PONDS, IF PRESENT, ARE DENOTED ON THE SURVEY. NO IMPACTS TO WETLANDS ARE ANTICIPATED.
- PLEASE BE ADVISED TO OF THE RULES WHICH PROTECT AND MAINTAIN EXISTING BUFFERS ALONG WATERCOURSES IN THE NEUSE AND TAR/PAMLICO RIVER BASINS. THIS RULE IS ENFORCED BY THE DIVISION OF WATER QUALITY (DWQ). DIRECT ANY QUESTIONS ABOUT THE APPLICABILITY OF THIS RULE TO THE RALEIGH REGIONAL OFFICE. (919) 791-4200
- NEW BUILDINGS MUST COMPLY WITH NC FIRE CODE SECTION 510 -- EMERGENCY RESPONDER RADIO COVERAGE. FIRE DEPARTMENT VEHICULAR ACCESS TO ALL STRUCTURES UNDER CONSTRUCTION SHALL BE PROVIDED AT ALL TIMES.
- CONTRACTOR TO FURNISH ALL PAVEMENT MARKINGS AS SHOWN.
- THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR PRECISE BUILDING DIMENSIONS AND EXACT UTILITY ENTRANCE POINTS.
- SITE LIGHTING IS TO BE INSTALLED WITH COORDINATION BETWEEN CONTRACTOR, OWNER/DEVELOPER AND DUKE ENERGY.
- COPIES OF ALL PERMITS AND APPROVED PLANS MUST BE KEPT ON SITE IN A PERMIT BOX THAT IS CONSPICUOUSLY LOCATED AND EASILY ACCESSIBLE DURING CONSTRUCTION. THIS INCLUDES APPROVED CONSTRUCTION PLANS, APPROVED EROSION CONTROL PLANS, ENCROACHMENT AGREEMENTS, DRIVEWAY PERMITS, WATER/S.S. PERMITS, ETC.
- OUTDOOR STORAGE IS PROHIBITED PER UDO SECTION 5.7.G.1.
- WATER ALLOCATION POLICY COMPLIANCE: NEW DEVELOPMENT WILL ONLY INCLUDE A FIRE LINE. NO DOMESTIC SERVICE IS NEEDED.
- PROPERTY WILL NOT BE SUBDIVIDED

-OWNER CONTACT INFO UPDATED  
-TOK PROJ # ADDED  
-SITE DATA TABLE UPDATED  
-GENERAL NOTED UPDATED

3 SETP 24

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.

By: \_\_\_\_\_ Date: \_\_\_\_\_  
Town Engineer

These plans are approved by the Town of Knightdale and serve as construction plans for this project.

By: \_\_\_\_\_ Date: \_\_\_\_\_  
Administrator

Professional Design Engineer Certification. These improvements shall be constructed in accordance with the following drawings and with the Standard Specifications of the Town of Knightdale.

I, \_\_\_\_\_, PE, certify that the Standard Specifications of the Town of Knightdale have been thoroughly checked and found to be applicable to this project. All exceptions to the applicable Town standards have been previously approved by the Town of Knightdale and said exceptions are shown on Sheet(s) \_\_\_\_\_ of these drawings.

Seal By: \_\_\_\_\_, PE  
Date: \_\_\_\_\_

IN THE EVENT OF A CONFLICT OR INCONSISTENCY BETWEEN THESE CONSTRUCTION DRAWINGS AND THE TOWN OF KNIGHTDALE'S APPROVED STANDARDS FOR THIS PROJECT, THE APPROVED STANDARDS SHALL CONTROL. TOWN OF KNIGHTDALE APPROVED STANDARDS SHALL MEAN ALL DEVELOPMENT DOCUMENTS NECESSARY FOR APPROVAL FOR THE PROPERTY INCLUDING, BUT NOT LIMITED TO, ANY SPECIAL USE PERMIT, SUBDIVISION PLAN, SITE PLAN, SUBDIVISION PLAT(S), PHASING SCHEDULE, DEVELOPMENT AGREEMENT, UTILITY ALLOCATION AGREEMENT, ANNEXATION AGREEMENT, THE TOWN OF KNIGHTDALE STANDARD SPECIFICATION AND DETAILS MANUAL AND APPLICABLE PROVISIONS OF THE NORTH CAROLINA STATE BUILDING CODE.

LAMPE MANAGEMENT COMPANY  
**AMPLE STORAGE - EXPANSION**

TOWN OF KNIGHTDALE ~ ST. MATTHEWS TWP. ~ WAKE CO. ~ NORTH CAROLINA

**COVER SHEET**

DATE: MAY 22, 2024

DESIGNED BY: MJP

DRAWN BY: EDN

CHECKED BY: JSJ

PROJECT No. 2023008

DRAWING No. W-4073-MP

SCALE: AS NOTED

SHEET No.

**C1.01**

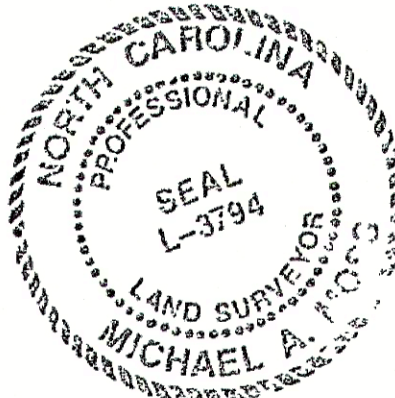
Do Not Use for Construction - PRELIMINARY



I, MICHAEL A. MOSS, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION; THAT THE SOURCE OF INFORMATION FOR THE SURVEY IS SHOWN HEREON; THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED; THAT THE RATIO OF PRECISION IS GREATER THAN 1:10,000; THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH G.S. 47-30 AS AMENDED; AND THAT THIS MAP MEETS THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56.1600). WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL.

THIS 24<sup>TH</sup> DAY OF JANUARY, 2017.

*Michael A. Moss*  
PROFESSIONAL LAND SURVEYOR (L-3794)



#### CERTIFICATE OF OWNERSHIP AND DEDICATION

I HEREBY CERTIFY THAT I AM THE OWNER OF THE PROPERTY SHOWN AND DESCRIBED, WHICH IS LOCATED IN THE SUBDIVISION JURISDICTION OF THE TOWN OF KNIGHTDALE, AND THAT I HEREBY ADOPT THIS PLAN OF SUBDIVISION WITH MY FREE CONSENT, ESTABLISH MINIMUM BUILDING SETBACK LINES, PRESERVE AND PROTECT ALL SOILS AND VEGETATION IN THE TREE PROTECTION AREAS AS REQUIRED IN SECTION 8.5 OF THE TOWN OF KNIGHTDALE UNIFIED DEVELOPMENT ORDINANCE, PLANT SUPPLEMENTARY OR REPLACEMENT TREES AS REQUIRED, AND DEDICATE ALL STREETS, ALLEYS, WALKS, PARKS, AND OTHER SITES AND EASEMENTS, TO PUBLIC OR PRIVATE USES AS NOTED. FURTHERMORE, I HEREBY DEDICATE ALL SANITARY SEWER, STORM SEWER, AND WATER LINES THAT ARE LOCATED IN PUBLIC UTILITY EASEMENTS OR RIGHTS-OF-WAY TO THE CITY OF RALEIGH, AND I HEREBY DEDICATE ALL STORM SEWER LINES THAT ARE LOCATED IN PUBLIC UTILITY EASEMENTS OR RIGHTS-OF-WAY TO THE TOWN OF KNIGHTDALE.

1-25-2017 *Ample Storage Lake Worth LLC*  
DATE OWNER(S)

I, *Patricia D. Hildreth*, DO HEREBY CERTIFY THAT *Guy Lampe*, PERSONALLY APPEARED BEFORE ME THIS DAY AND ACKNOWLEDGED THE DUE EXECUTION OF THIS CERTIFICATE. WITNESS MY HAND AND (WHERE AN OFFICIAL SEAL IS REQUIRED BY LAW) OFFICIAL SEAL THIS 25<sup>TH</sup> DAY OF Jan., A.D., 2017 (YEAR)

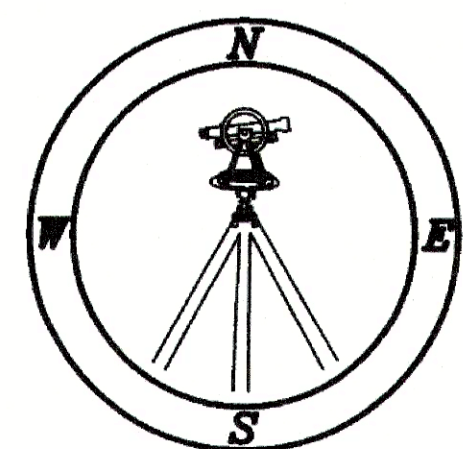
*Patricia D. Hildreth*  
NOTARY  
09/27/2021  
COMMISSION EXPIRES

#### CERTIFICATE OF APPROVAL FOR RECORDING

I HEREBY CERTIFY THAT THE SUBDIVISION PLAT SHOWN IS EXEMPT FROM THE SUBDIVISION PROVISIONS OF THE UNIFIED DEVELOPMENT ORDINANCE FOR THE TOWN OF KNIGHTDALE, NORTH CAROLINA, AND IS THEREFORE EXEMPT FROM ITS PROVISIONS. THE PLAT HAS BEEN FOUND TO COMPLY WITH THE ZONING REGULATIONS OF THE UNIFIED DEVELOPMENT ORDINANCE FOR THE TOWN OF KNIGHTDALE, NORTH CAROLINA, AND HAS BEEN APPROVED BY THE TOWN OF KNIGHTDALE FOR RECORDING IN THE OFFICE OF THE REGISTER OF DEEDS OF WAKE COUNTY.

2/10/17 *ATB*  
DATE ADMINISTRATOR, TOWN OF KNIGHTDALE

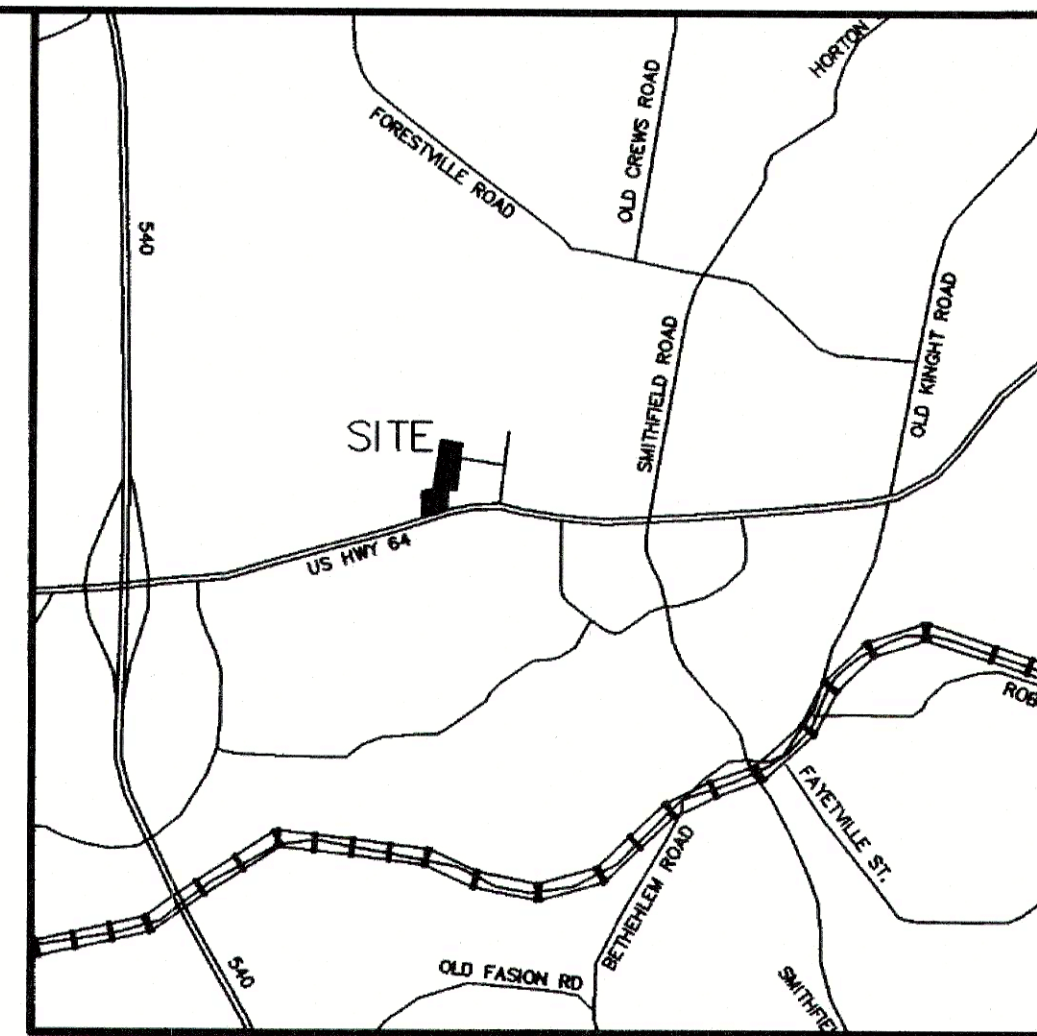
REVIEW OFFICER CERTIFICATION  
STATE OF NORTH CAROLINA, COUNTY OF WAKE  
I, *Jennifer Crinn*, REVIEW OFFICER OF WAKE COUNTY, CERTIFY THAT THE MAP OR PLAT TO WHICH THIS CERTIFICATION IS AFFIXED MEETS ALL THE STATUTORY REQUIREMENTS FOR RECORDING.  
2.10.17 *Jennifer Crinn*  
DATE REVIEW OFFICER, TOWN OF KNIGHTDALE, WAKE COUNTY



CAWTHORNE, MOSS & PANCIERA, P.C. PROFESSIONAL LAND SURVEYORS, C-1525, 333 S. WHITE STREET, P.O. BOX 1253, WAKE FOREST N.C., 27588, (919) 556-3148

LINE TABLE		
LINE	LENGTH	BEARING
L-1	141.12'	N 85°53'01" W
L-3	42.02'	N 84°35'44" E
L-4	58.39'	N 39°38'36" W

CURVE TABLE				
CURVE	LENGTH	RADIUS	CHORD	BEARING
C-1	61.61'	55.00'	58.44'	S 42°54'26" W
C-2	61.51'	55.00'	58.36'	S 21°13'27" E



VICINITY MAP

EASEMENT LINE TABLE		
LINE	LENGTH	BEARING
EL-1	10.34'	N 73°31'12" E
EL-2	95.34'	N 01°43'54" W
EL-3	53.04'	N 22°31'01" E
EL-4	104.59'	N 01°36'11" W
EL-5	51.82'	N 68°07'32" E
EL-6	63.07'	N 85°13'41" E
EL-7	53.22'	S 01°46'35" E
EL-8	91.85'	N 84°35'44" E
EL-9	51.25'	S 00°17'28" W
EL-10	29.94'	S 68°07'32" W
EL-11	109.42'	S 01°36'11" E
EL-12	53.05'	S 22°31'01" W
EL-13	100.12'	S 01°43'54" E
EL-14	72.24'	S 01°36'11" E
EL-15	84.97'	S 26°13'12" E
EL-16	48.18'	S 01°55'22" W
EL-17	189.56'	S 06°03'46" W
EL-18	107.89'	S 06°03'46" W
EL-19	26.80'	S 83°17'45" E
EL-20	81.19'	S 06°41'32" W
EL-21	178.73'	S 08°27'21" W
EL-22	36.84'	S 03°38'40" W
EL-23	42.45'	S 01°55'22" W
EL-24	60.32'	S 26°13'12" E
EL-25	94.74'	S 01°36'11" E

LEGEND:  
EIP - EXISTING IRON PIPE  
EPK - EXISTING PK NAIL  
NIP - NEW IRON PIPE SET  
R/W - RIGHT OF WAY  
CATV - CABLE TV BOX  
EB - ELECTRIC BOX  
TEL - TELEPHONE PEDESTAL  
PP - POWER POLE  
OHL - OVERHEAD LINE  
LP - LIGHT POLE  
WM - WATER METER  
WV - WATER VALVE  
CO - SEWER CLEAN-OUT  
SCP - SECURITY CAMERA POLE

#### LINE TYPE LEGEND

---	PROPERTY LINE - LINE SURVEYED
---	RIGHT-OF-WAY
---	ADJOINING LINE - LINE NOT SURVEYED
---	OVERHEAD LINE
---	BUILDING SETBACK
---	EASEMENT
---	BUFFER
---	FLOOD HAZARD SOILS

FINAL PLAT FOR NEW STORMWATER BMP MAINTENANCE & ACCESS

#### AMPLE STORAGE LAKE WORTH, LLC

OWNER: AMPLE STORAGE LAKE WORTH, LLC

REF: D.B. 15706 PAGE 63  
REF: B.M. 2005 PAGE 450  
REF: B.M. 2013 PAGE 683  
REF: B.M. 2015, PAGE 400

ST. MATTHEWS TOWNSHIP  
WAKE COUNTY, NORTH CAROLINA

100 50 0 100 200

SCALE 1"=100'

DECEMBER 15, 2014  
REVISED MAY 25, 2016  
REVISED DECEMBER 1, 2016  
REVISED JANUARY 16, 2017  
REVISED JANUARY 17, 2017  
ZONED HB & MI  
PIN # 1744-86-8623  
EX-10-16  
ZCP-7-14

I, MICHAEL A. MOSS, PROFESSIONAL LAND SURVEYOR NO. L-3794, CERTIFY THAT THIS PLAT IS OF A SURVEY OF ANOTHER CATEGORY, SUCH AS THE RECOMBINATION OF EXISTING PARCELS, A COURT ORDERED SURVEY, OR OTHER EXCEPTION TO THE DEFINITION OF SUBDIVISION.

*Michael A. Moss*  
MICHAEL A. MOSS, PROFESSIONAL LAND SURVEYOR NO. L-3794

WAKE COUNTY, NC 94  
LAURA M RIDDICK  
REGISTER OF DEEDS  
PRESENTED & RECORDED ON  
02/15/2017 10:24:13  
BOOK: BM2017 PAGE: 00308

**Rivers**  
& ASSOCIATES, INC.  
PLANNERS & ARCHITECTS  
107 East Second Street  
Greenville, NC 27658  
(252) 752-4135

REVISIONS:			
NO.	DATE	DESCRIPTION	BY
3	09/23/24	MASTER PLAN COMMENTS	
2	09/03/24	TOWN COUNCIL WORKSHOP	
1	05/21/24	MASTER PLAN - FIRST SUBMITTAL	

LAMPE MANAGEMENT COMPANY  
AMPLE STORAGE - EXPANSION  
TOWN OF KNIGHTDALE ~ ST. MATTHEWS TOWNSHIP ~ WAKE CO. ~ NORTH CAROLINA  
BOUNDARY SURVEY

DATE: MAY 22, 2024  
DESIGNED BY: MJP  
DRAWN BY: EDN  
CHECKED BY: JSJ  
PROJECT NO: 2023008  
DRAWING NO: W-4073-MP  
SCALE: NOT TO SCALE  
SHEET NO:

C1.11



[illegible]

**LAMPE MANAGEMENT COMPANY**

**AMPLE STORAGE - EXPANSION**

**NATURAL RESOURCES**

**MASTER PLAN**

TOWN OF KNIGHTDALE ~ ST. MATTHEWS TWPSP. ~ WAKE CO. ~ NORTH CAROLINA

DATE:	
MAY 22, 2024	
DESIGNED BY:	MJP
DRAWN BY:	EDN
CHECKED BY:	JSJ
PROJECT No.	2023008
DRAWING No.	W-4073-MP
SCALE:	1" = 20'
SHEET No.	
<b>C1.12</b>	

PRIORITY	TREE SAVE AREA	PROTECTION MEASURES
		<p>ALL VEGETATION AND SOIL TO REMAIN UNDISTURBED</p> <p>IN SOME CASES, LIMITED DISTURBANCE MAY OCCUR WITHIN THE AREAS. TO BE PROTECTED PROVIDED ALL NECESSARY APPROVALS ARE OBTAINED. SUCH ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:</p> <ol style="list-style-type: none"> <li>1. MITIGATION OF DEVELOPMENT ACTIVITIES.</li> <li>2. RESTORATION OF PREVIOUSLY DISTURBED AREAS.</li> <li>3. UTILITY INSTALLATIONS AND EMERGENCY PUBLIC SAFETY ACTIVITIES.</li> <li>4. CONSTRUCTION OF A TRAIL OR PEDESTRIAN WALKWAY THAT WILL PROTECT PUBLIC ACCESS.</li> <li>5. REQUIRED STREET OR DRIVEWAY CONNECTIONS.</li> </ol>
TIER 1	<p>FLOODWAYS</p> <p>REQUIRED STREAM BUFFERS</p> <p>REQUIRED BUFFER YARD</p> <p>SLOPE AREAS GREATER THAN 25% WETLANDS</p>	<p>ALL TREES GREATER THAN 12" DBH TO REMAIN UNDISTURBED, OR REPLACEMENT TREES SHALL BE PLANTED AT A RATE OF 1 TREE PER 12" DBH, AND SHOULD BE INCORPORATED INTO OPEN SPACE AMENITIES WHEREVER POSSIBLE. **</p>
TIER 2	<p>100 YEAR FLOODPLAINS</p> <p>FRONT SETBACK AREAS</p> <p>STREET TREE PLANTING STRIP</p> <p>RESIDENTIAL LANDSCAPING AREAS</p> <p>REQUIRED OPEN SPACE</p> <p>SLOPE AREAS OF 15-25%</p>	<p>ALL TREES GREATER THAN 24" DBH TO REMAIN UNDISTURBED, OR REPLACEMENT TREES SHALL BE PLANTED AT A RATE OF 1 TREE PER 12" DBH, AND SHOULD BE INCORPORATED INTO OPEN SPACE AMENITIES WHEREVER POSSIBLE. **</p>
TIER 3	<p>ALL OTHER LOCATIONS</p>	<p>ALL TREES GREATER THAN 24" DBH TO REMAIN UNDISTURBED, OR REPLACEMENT TREES SHALL BE PLANTED AT A RATE OF 1 TREE PER 12" DBH, AND SHOULD BE INCORPORATED INTO OPEN SPACE AMENITIES WHEREVER POSSIBLE. **</p>
<p>** REQUIRED STREET TREES, PARKING LOT LANDSCAPING, RESIDENTIAL LANDSCAPING AND BUFFER YARD PLANTINGS MAY NOT BE COUNTED TOWARDS REPLACEMENT REQUIREMENTS.</p>		

**NOTES:** PER UDO SECTION 7.4.H.1 ALL TREES GREATER THAN 24" DBH SHALL REMAIN UNDISTURBED, OR REPLACEMENT TREES SHALL BE PLANTED AT A RATE OF 1 TREE PER 12" DBH, AND SHOULD BE INCORPORATED INTO OPEN SPACE AMENITIES WHEREVER POSSIBLE.



2 -TIER 1-3 NOTES ADDED  
-PROPOSED TREE LINE CLARIFIED  
-EX SHRUBS CLARIFIED

3 SEP 24



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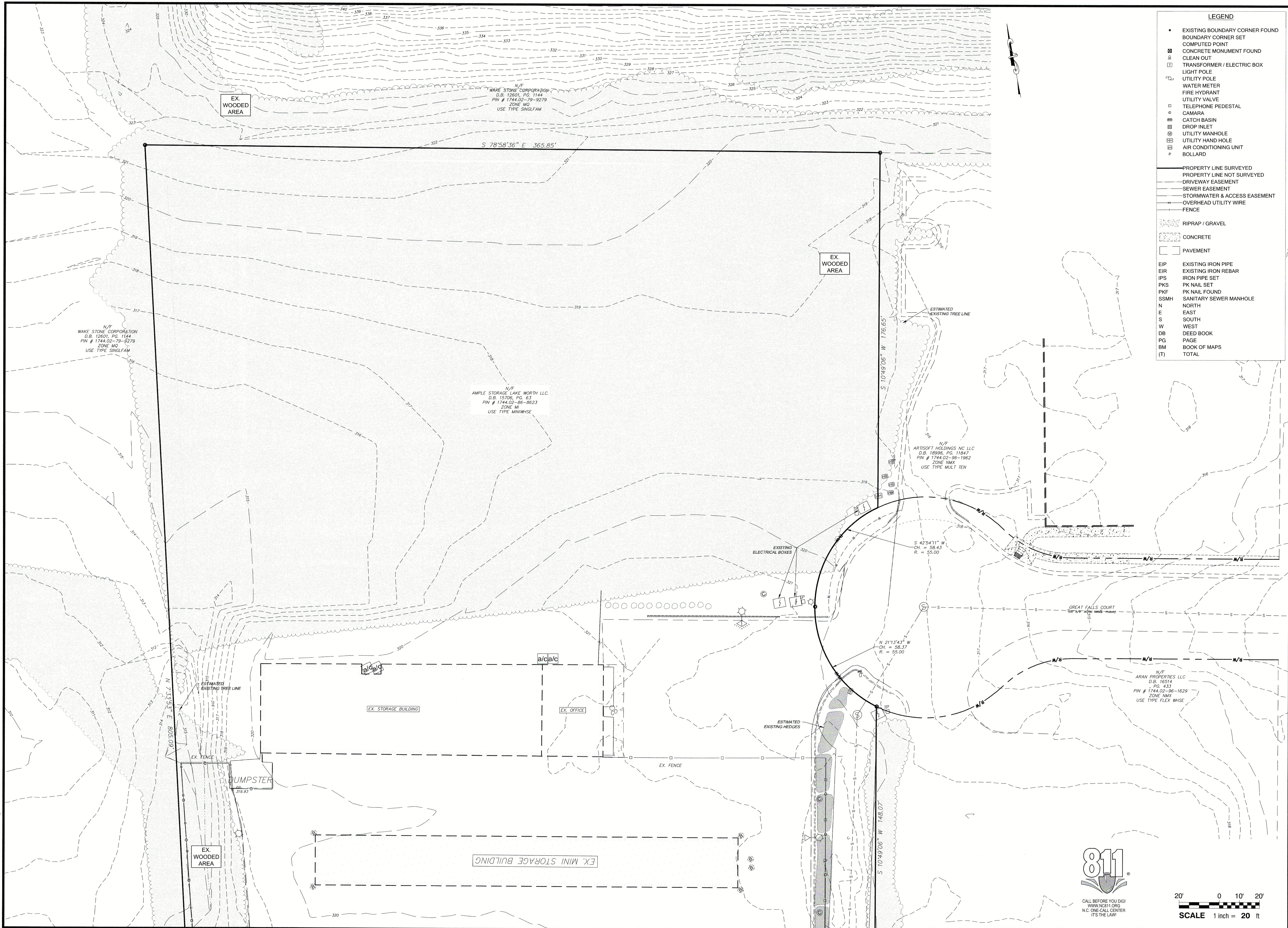








PLANDEN/LAMPE-AMPE.E - STG-RIGHTDALE-20230309.CADD, DWG-SHEETS-MASTER.PLAN-W-4073 EXISTING CONDITION.DWG - LAYOUT 2 - 8/30/2024 11:20:33 AM - MATI PROTOP



- LEGEND**
- EXISTING BOUNDARY CORNER FOUND
  - BOUNDARY CORNER SET
  - COMPUTED POINT
  - CONCRETE MONUMENT FOUND
  - CLEAN OUT
  - TRANSFORMER / ELECTRIC BOX
  - LIGHT POLE
  - UTILITY POLE
  - WATER METER
  - FIRE HYDRANT
  - UTILITY VALVE
  - TELEPHONE PEDESTAL
  - CAMERA
  - CATCH BASIN
  - DROP INLET
  - UTILITY MANHOLE
  - UTILITY HAND HOLE
  - AIR CONDITIONING UNIT
  - BOLLARD
  - PROPERTY LINE SURVEYED
  - PROPERTY LINE NOT SURVEYED
  - DRIVEWAY EASEMENT
  - SEWER EASEMENT
  - STORMWATER & ACCESS EASEMENT
  - OVERHEAD UTILITY WIRE
  - FENCE
  - RIPRAP / GRAVEL
  - CONCRETE
  - PAVEMENT
  - EIP EXISTING IRON PIPE
  - EIR EXISTING IRON REBAR
  - IPS IRON PIPE SET
  - PKS PK NAIL SET
  - PKF PK NAIL FOUND
  - SSMH SANITARY SEWER MANHOLE
  - N NORTH
  - E EAST
  - S SOUTH
  - W WEST
  - DB DEED BOOK
  - PG PAGE
  - BM BOOK OF MAPS
  - (T) TOTAL

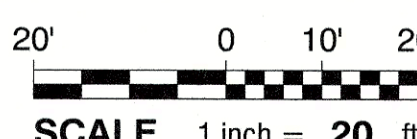
**REVISIONS:**

NO.	DESCRIPTION	DATE	BY
3	MASTER PLAN COMMENTS	09/23/24	
2	TOWN COUNCIL WORKSHOP	09/03/24	
1	MASTER PLAN - FIRST SUBMITTAL	05/21/24	

**LAMPE MANAGEMENT COMPANY**  
**AMPLE STORAGE - EXPANSION**  
**EXISTING CONDITIONS**  
**- PROJECT AREA**

DATE: MAY 22, 2024  
DESIGNED BY: MJP  
DRAWN BY: EDN  
CHECKED BY: JSJ  
PROJECT No. 2023008  
DRAWING No. W-4073-MP  
SCALE: 1"=40'  
SHEET No. **C1.22**

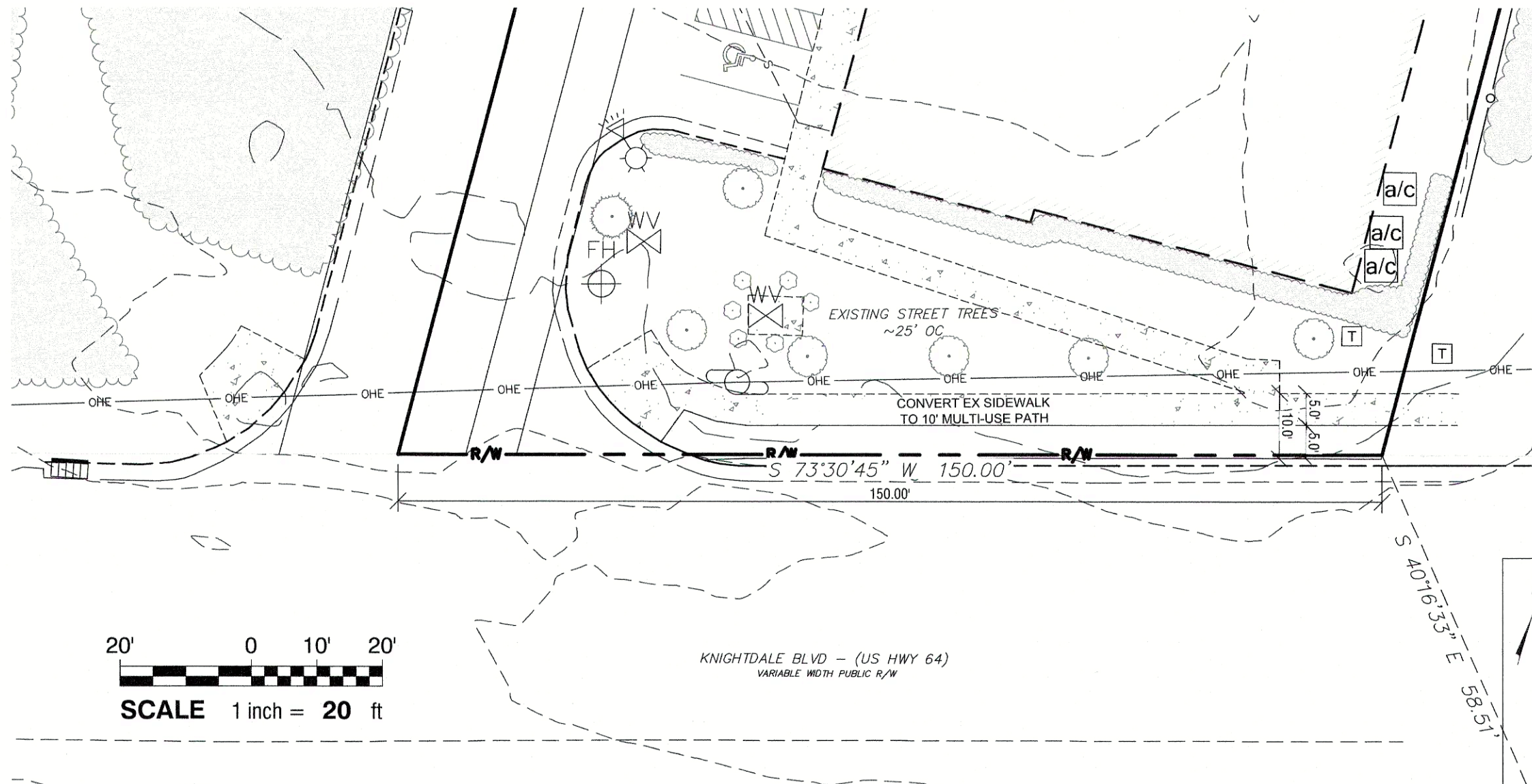
**Rivers**  
RIVERS & ASSOCIATES, INC.  
107 East Second Street  
Greenville, NC 27858  
(252) 752-4135  
Engineers  
Planners  
Architects  
Landscape Architects





P:\LANDDEV\LAMPE-AMPLE\_CIG\KIGHTDALE-2023008\CAUD\_ DWG\SHEETS-MASTER PLAN\W-4073 MASTER PLAN OVERALL DWG - LAYOUT - 9/23/2024 11:26:55 AM - MATI PROKOP

SITE DATA	
SITE ADDRESS PHASE 1:	1107 GREAT FALLS COURT KNIGHTDALE, NORTH CAROLINA 27545
SITE ADDRESS PHASE 2:	6839 KNIGHTDALE BLVD. KNIGHTDALE, NORTH CAROLINA 27545
MUNICIPALITY:	ST. MATTHEWS
PARCEL NO.:	1744868623
DEED REFERENCE:	DB 15706, PG 63
AREA IN SITE:	6.98 ACRES (+/- 303,818 SF)
EXISTING USE CLASS/ZONING:	GENERAL COMMERCIAL - HB/MI
PROPOSED USE CLASS/ZONING:	MINI-WAREHOUSES - HB/MI-CD
WATERSHED:	27-29: BEAVERDAM CREEK
RECEIVING STREAM:	C, NSW
TOTAL BUILDING SQUARE FOOTAGE:	95,640 SF EXIST + 87,840 NEW = 183,480 TOTAL SF
BUILDING HEIGHT:	EXISTING = 1 @ 30' (3-STORY), 7 @ 10' (1-STORY) PROPOSED = 30' (3 STORY)
TOTAL NUMBER OF STORAGE UNITS:	EXISTING = ~750 PROPOSED = 977
IMPERVIOUS AREA	
EXISTING BUILDINGS FOOTPRINT:	62,611 SF
EXISTING CONCRETE:	4,197 SF
EXISTING ASPHALT PARKING:	87,965 SF
TOTAL EXISTING IMPERVIOUS AREA:	154,773 SF (3.55 ACRE)
EXISTING:	50.9 %
PROPOSED BUILDING FOOTPRINT:	
PROPOSED CONCRETE:	29,280 SF
TOTAL PROPOSED IMPERVIOUS AREA:	15,752 SF
EXISTING:	45,032SF (1.03ACRES)
TOTAL IMPERVIOUS AREA:	199,805 SF (4.59 ACRES)
TOTAL POST DEVELOPMENT:	65.8 %
PARKING SUMMARY	
EXISTING REQUIREMENTS	MAXIMUM - .25 PER 1,000 SF(85,645 SF) = 23.9 SPACES
MINI-STORAGE:	MINIMUM - 1/2 OF MAXIMUM() = 12 SPACES
PROPOSED REQUIREMENTS	MAXIMUM - .25 PER 1,000 SF(87,840 SF) = 22 SPACES
MINI-STORAGE:	MINIMUM - 1/2 OF MAXIMUM() = 11 SPACES
TOTAL PARKING SPACES REQUIRED:	23
TOTAL EXISTING PARKING SPACES:	12
NEW PARKING SPACES REQUIRED:	11
NEW PARKING SPACES PROVIDED:	17
TOTAL PARKING SPACES PROVIDED:	29
EXISTING H/C PARKING SPACES:	2
H/C PARKING SPACES REQUIRED:	1
TOTAL H/C PARKING SPACES PROVIDED:	3
TOTAL BICYCLEPARKING REQUIRED:	2
TOTAL BICYCLEPARKING PROVIDED:	2



20' 0 10' 20'  
SCALE 1 inch = 20 ft

MULTI-USE PATH  
KNIGHTDALE BLVD

PROJECT AREA  
VEGETATION  
CALCULATIONS FOUND  
ON SHEET L1.01

DATE ###  
-SITE DATA TABLE UPDATED  
-PROPOSED BUILDING DIMENSIONS/LOCATION MODIFIED  
-PEDESTRIAN ACCESS MODIFIED  
-SIDEWALK EASEMENT ADDED  
-PUBLIC GATHERING SPACE RELOCATED  
-BICYCLE RACK RELOCATED  
-MASONRY WALL ADDED  
-EXISTING STREET TREES SHOWN ON KNIGHTDALE BLVD.

KNIGHTDALE BLVD  
FRONTAGE LENGTH = 150'  
STREET TREES REQ = 4  
EXISTING = 5  
CALCULATIONS FOUND ON  
SHEET L1.01

#### LEGEND

- RETAINED TREE COVER
- ADA ACCESSIBLE ROUTE
- PUBLIC GATHERING SPACE
- PROPOSED STORMWATER CONTROL MEASURE ACCESS EASEMENT
- PROPOSED PEDESTRIAN ACCESS EASEMENT
- GRASS PAVER FIRE LANE
- PROPOSED 6" CONCRETE DRIVE AISLE / PARKING AREA
- 2' CURB & GUTTER

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
Town Engineer  
These plans are approved by the Town of Knightdale and serve as construction plans for this project.  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
Administrator

811  
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LAMPE MANAGEMENT COMPANY  
AMPLE STORAGE - EXPANSION  
TOWN OF KNIGHTDALE ~ ST. MATTHEWS TWSP. ~ WAKE CO. ~ NORTH CAROLINA  
MASTER PLAN OVERALL

DATE:  
MAY 22, 2024  
DESIGNED BY: MJP  
DRAWN BY: EDN  
CHECKED BY: JSJ  
PROJECT No. 2023008  
DRAWING No. W-4073-MP  
SCALE: AS NOTED  
SHEET No.

C2.01

NC License F-0354  
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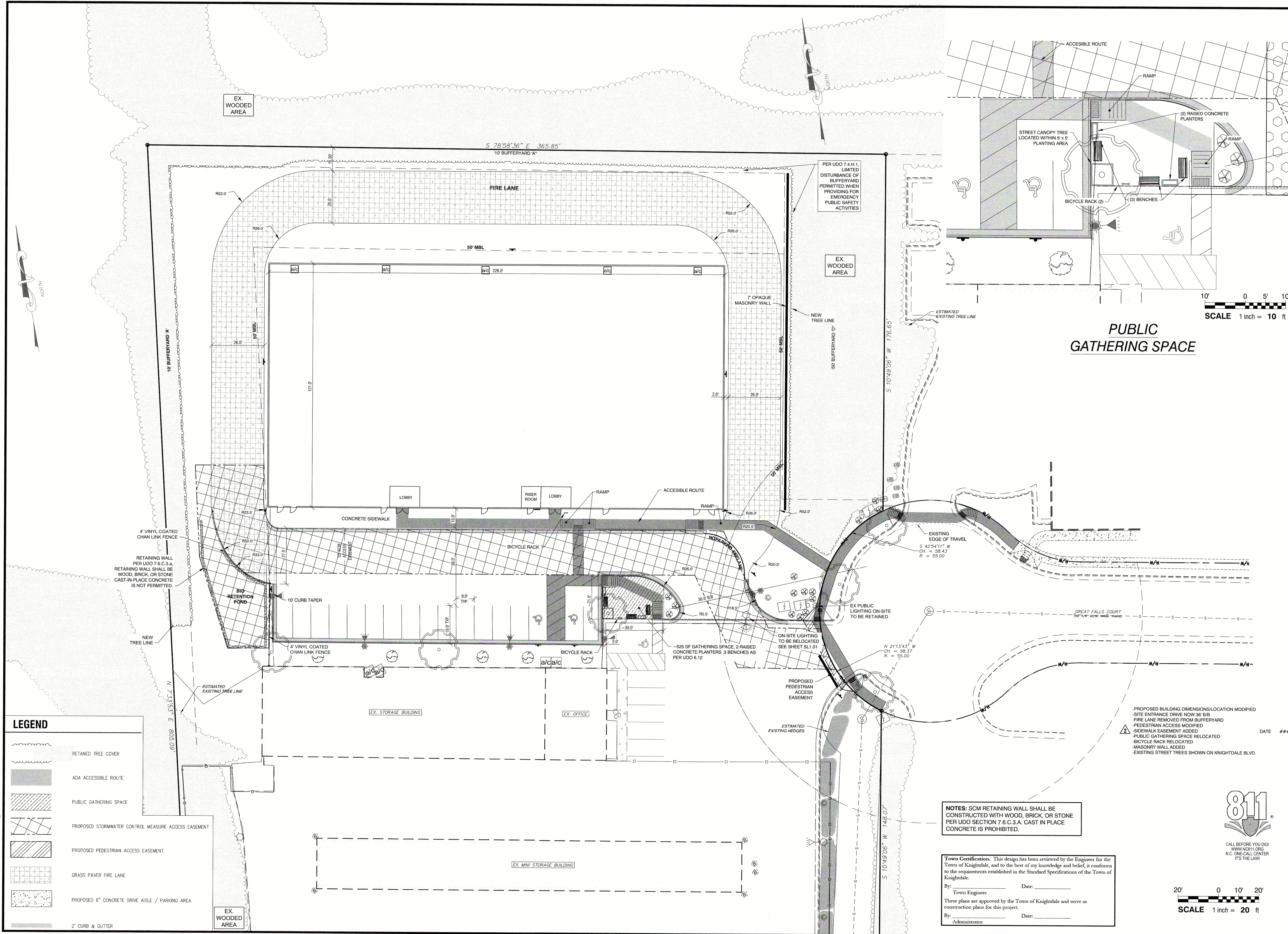


#### REVISIONS:

NO	DESCRIPTION	DATE	BY
3	MASTER PLAN COMMENTS	08/23/24	
2	TOWN COUNCIL WORKSHOP	08/03/24	
1	MASTER PLAN - FIRST SUBMITTAL	05/21/24	

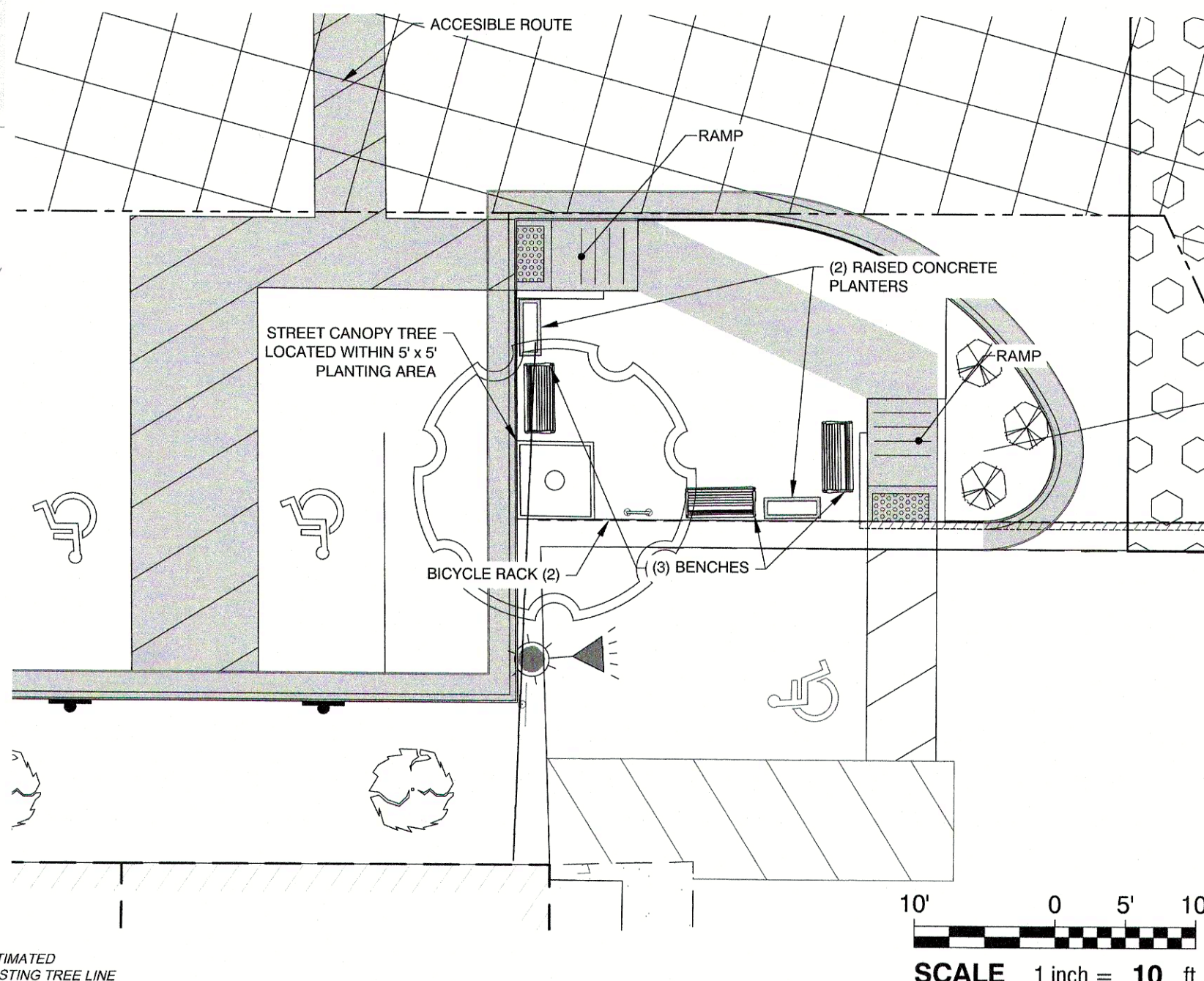
Do Not Use for Construction - PENDING






**NOTES:** SCM RETAINING WALL SHALL BE CONSTRUCTED WITH WOOD, BRICK, OR STONE PER UDO SECTION 7.6.C.3.A. CAST IN PLACE CONCRETE IS PROHIBITED.

Do Not Use For Construction - PRELIMINARY DRAWING



PUBLIC  
GATHERING SPACE

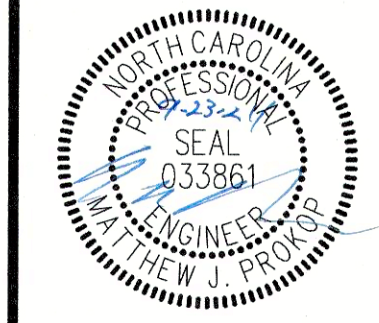
20' 0 10' 20'



**SCALE** 1 inch = 20 ft

REVISIONS:				
NO.	DESCRIPTION	DATE	BY	
1	MASTER PLAN - FIRST SUBMITTAL	05/21/24		
2	TOWN COUNCIL WORKSHOP	09/03/24		
3	MASTER PLAN COMMENTS	09/23/24		

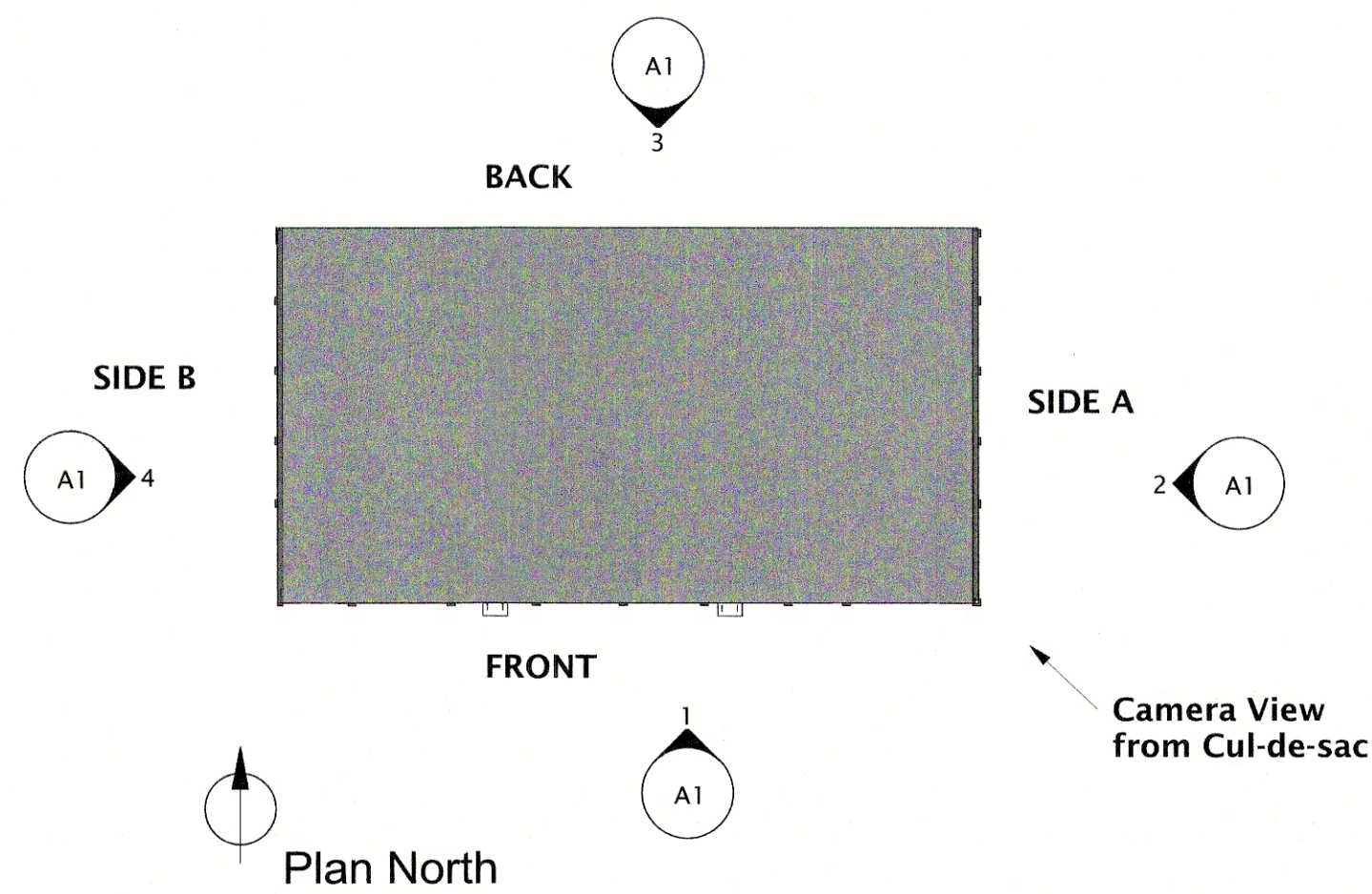
DATE:	
MAY 22, 2024	
DESIGNED BY:	MJP
DRAWN BY:	EDN
CHECKED BY:	JSJ
PROJECT No.	2023008
DRAWING No.	W-4073-MP
SCALE:	1" = 20'
SHEET No.	
<b>C2.10</b>	



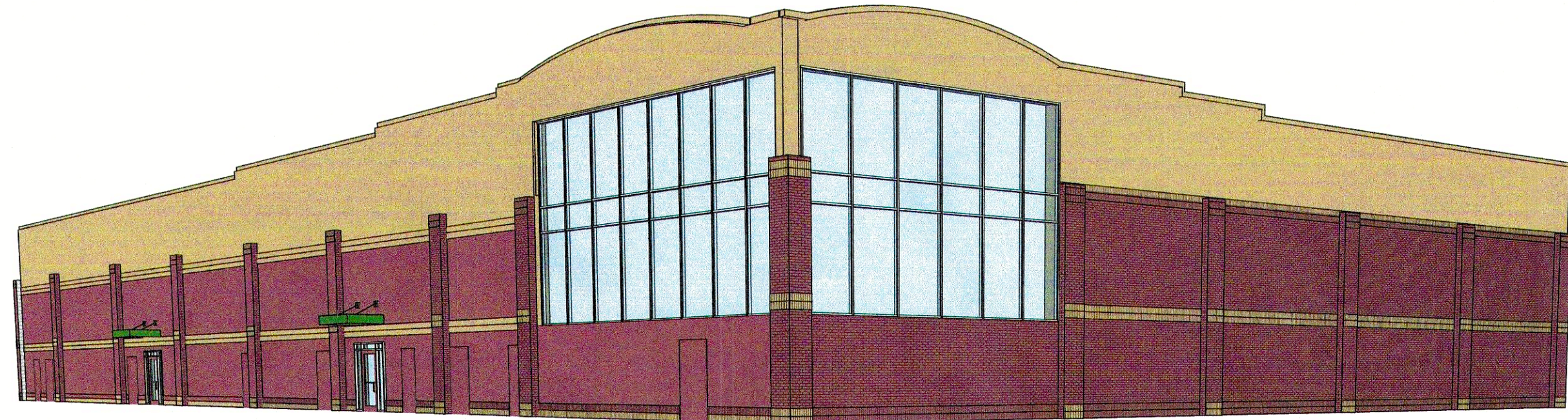






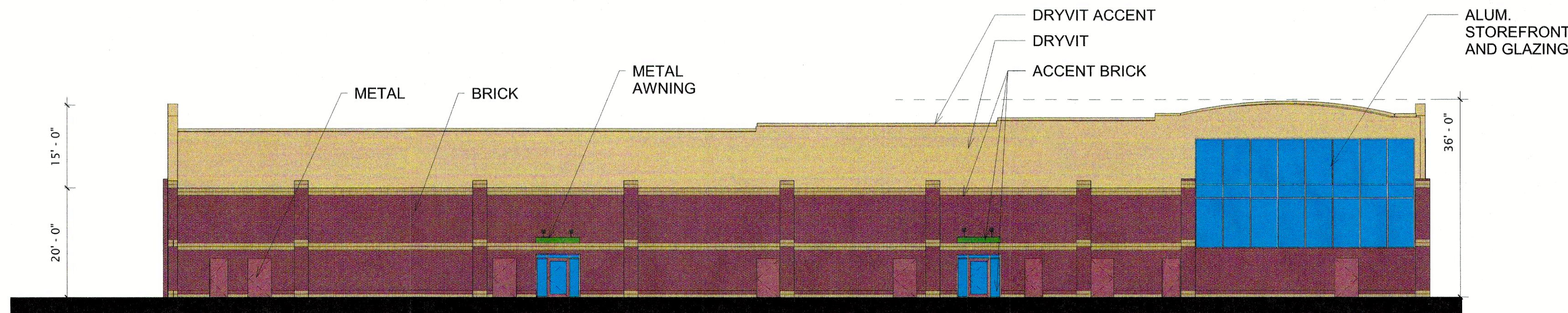


5 Key Plan  
A1 1" = 60'-0"

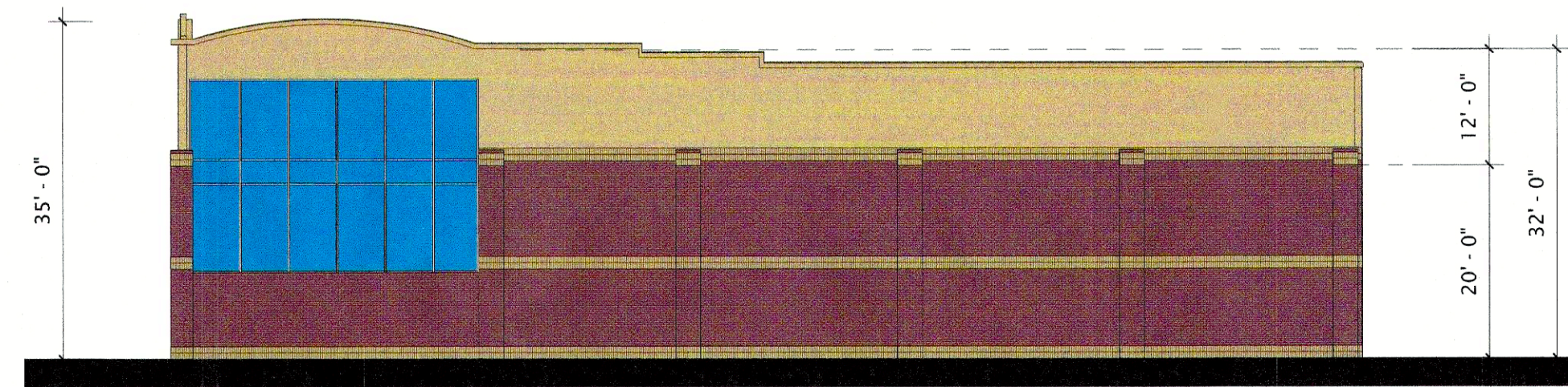


6 Camera View from Cul-de-sac  
A1

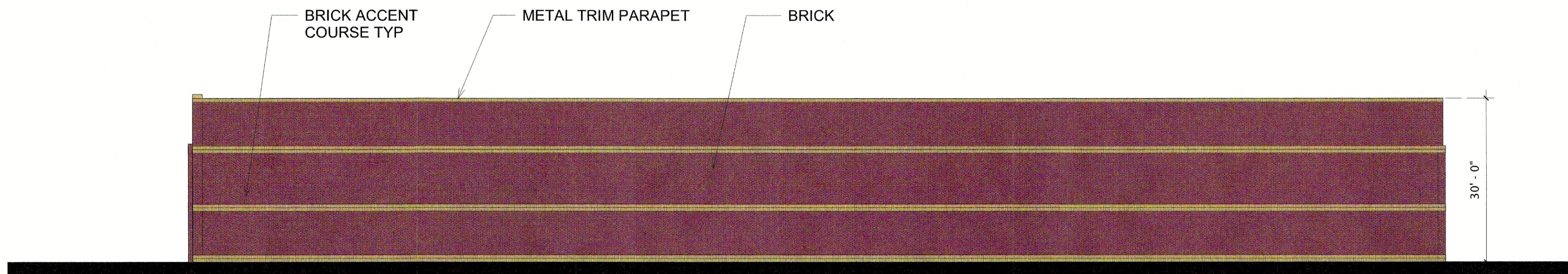
ALL BRICK AND DRYVIT  
COLORS TO MATCH PHASE  
ONE OFFICE BUILDING



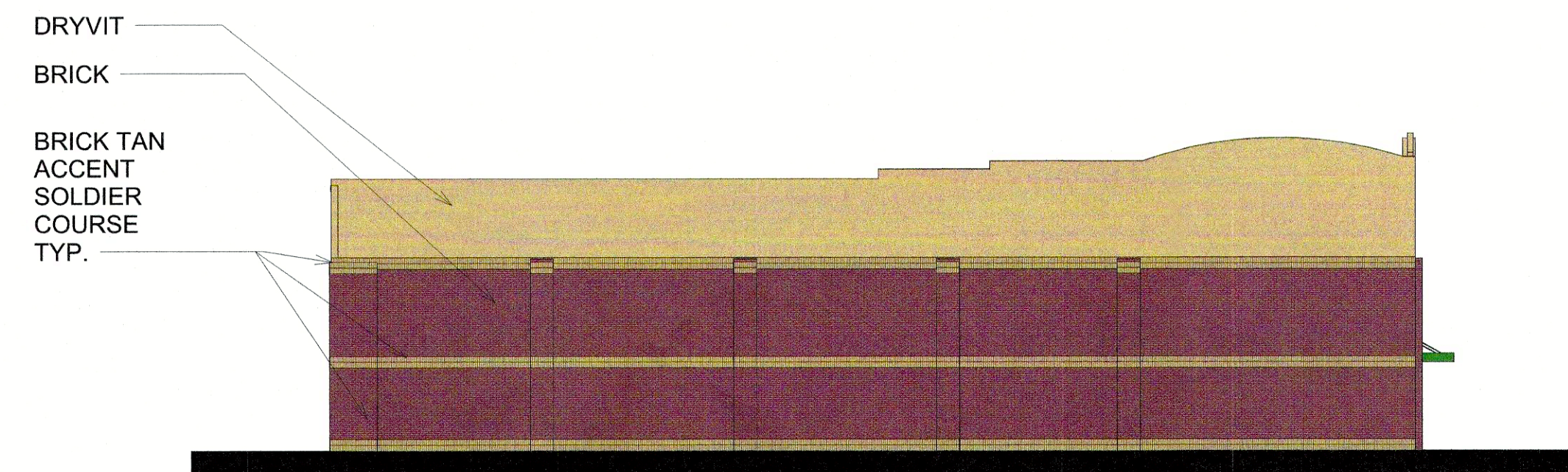
1 FRONT ELEVATION  
A1 1/16" = 1'-0"



2 Building A Elevation SIDE A  
A1 1/16" = 1'-0"



3 BACK ELEVATION  
A1 1/16" = 1'-0"



4 SIDE B ELEVATION  
A1 1/16" = 1'-0"

Ample  
Storage  
Addition

Knightdale

2024  
Copyright RND  
Architects

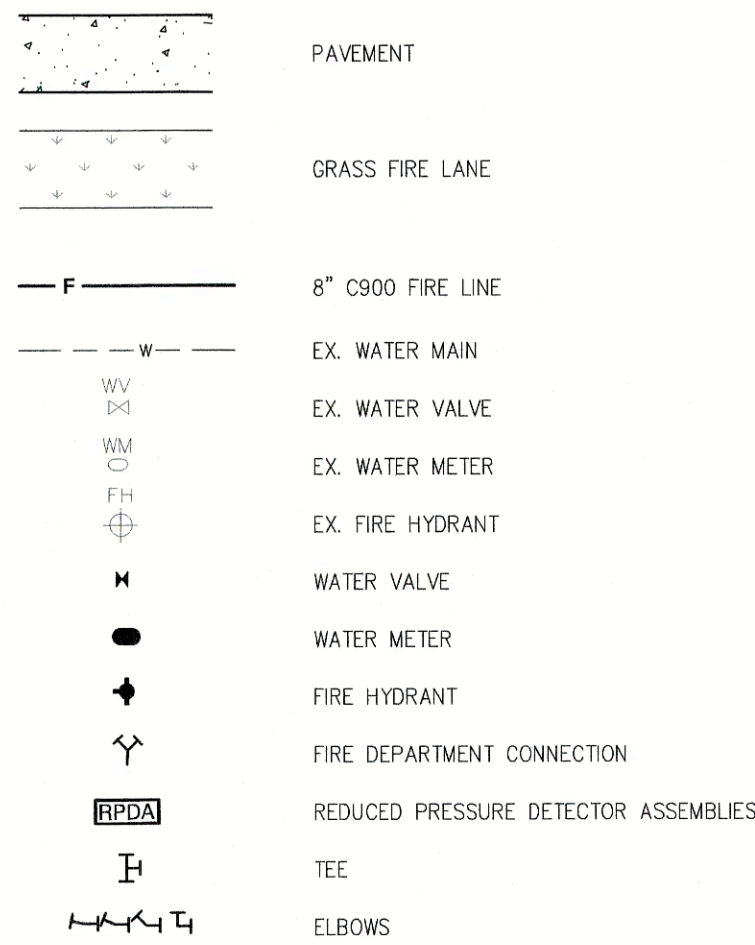
JOB NUMBER: 1430.02  
DRAWN: gp  
CHECKED: gp  
DATE: 8.13.24

Building Elevations  
Knightdale Addition

A1



## LEGEND



**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:  
FLUSH FDC DETAIL REQUIRMENTS

REVISIONS:  
5/1/2017

DATE:  
5/1/06

DRAWING NO.  
FP-14

REVISIONS:

[illegible]

## AMPLE STORAGE - EXPANSION

**AMPLE STORAGE - EXPANSION**  
TOWN OF KNIGHTDALE ~ ST. MATTHEWS TWP. ~ WAKE CO. ~ NORTH CAROLINA

**TORAGE - EXP**  
ST. MATTHEW'S TWSP. ~ WAKE

**UTILITY PLAN**

MAY 22, 2024

DESIGNED BY:	MJP
DRAWN BY:	EDN
CHECKED BY:	JSJ
SHEET No.	2023008
DRAWING No.	W/ 1072 MIP

SCALE: 1" = 20'

ET No.

### C3.01

*Do Not Use for Construction - PRELIMINARY*

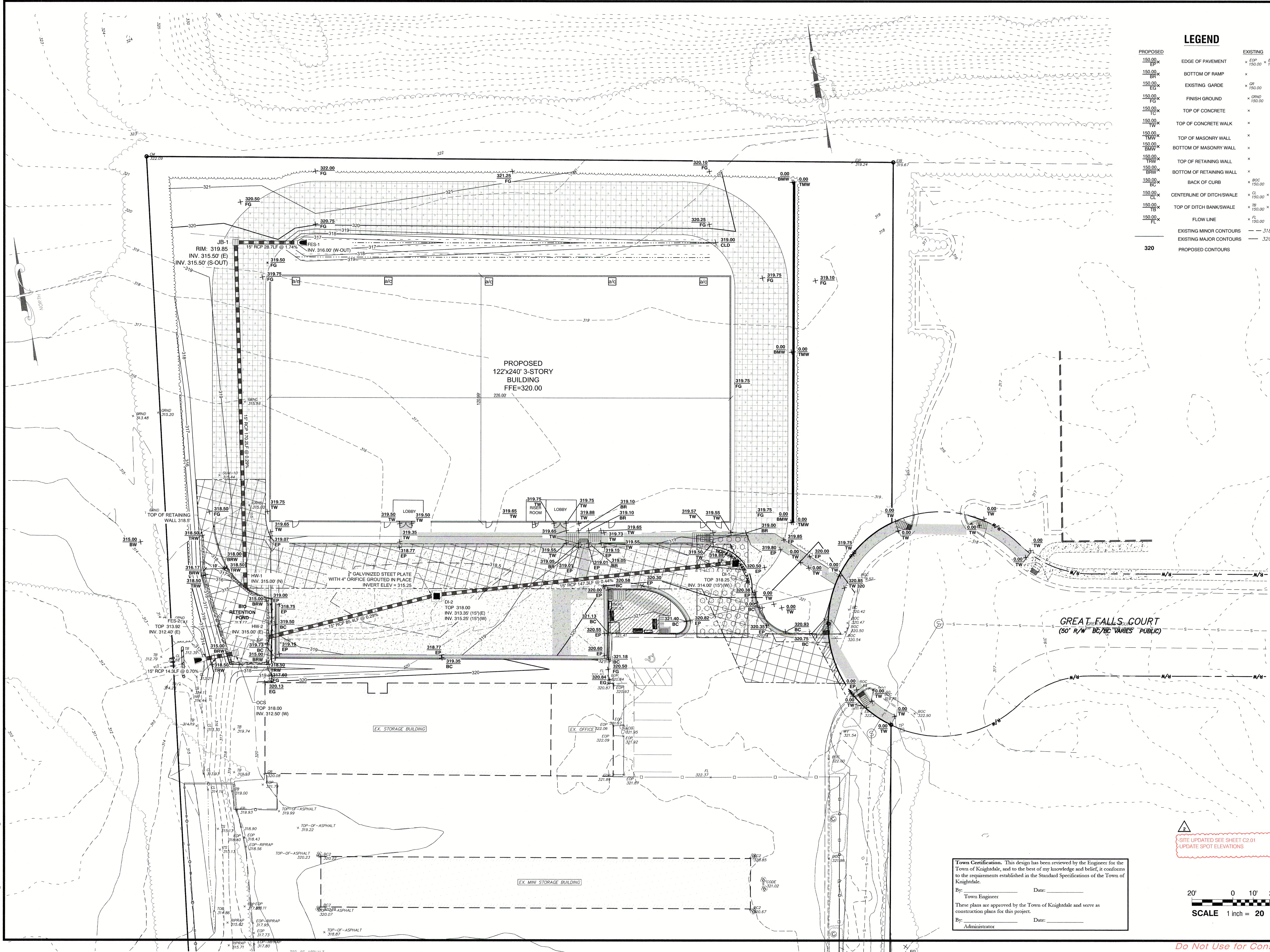
PAUL ANDREW AMDE AMDE, 20220808 CADIN DWGS SHEETS-MASTER PLAN, 09/22/2024 11:26:36 AM - MATT PROKOP



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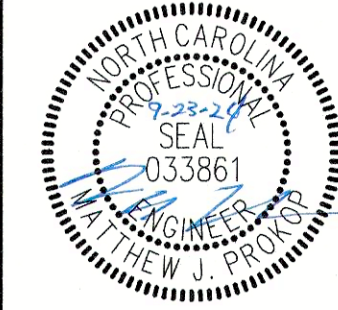
P:\LANDDEV\AMPE-AMPE\_E-STD-KNIGHTDALE-2023008\CADD\DWGS\DWGS-MASTER PLAN\W-4073 GRADING-DRAINAGE.DWG - LAYOUT - 9/23/2024 11:26:35 AM - MATI PRKOP



LEGEND

PROPOSED	EXISTING
150.00 EP	EDGE OF PAVEMENT x EOP 150.00 x EP 150.00
150.00 BR	BOTTOM OF RAMP x BR 150.00
150.00 EG	EXISTING GARDE x EG 150.00
150.00 FG	FINISH GROUND x FGD 150.00
150.00 TC	TOP OF CONCRETE x TC
150.00 TW	TOP OF CONCRETE WALK x TW
150.00 TMW	TOP OF MASONRY WALL x TMW
150.00 BMW	BOTTOM OF MASONRY WALL x BMW
150.00 TRW	TOP OF RETAINING WALL x TRW
150.00 BRW	BOTTOM OF RETAINING WALL x BRW
150.00 BC	BACK OF CURB x BOC 150.00
150.00 CL	CENTERLINE OF DITCH/SWALE x CL 150.00 x TOE 150.00
150.00 TS	TOP OF DITCH BANK/SWALE x TB 150.00 x TOP 150.00 x TS 150.00
150.00 FL	FLOW LINE x FL 150.00
320	EXISTING MINOR CONTOURS EXISTING MAJOR CONTOURS PROPOSED CONTOURS

NC License #4034  
**Rivers**  
& ASSOCIATES, INC.  
107 East Second Street  
Greenville, NC 27838  
(252) 752-4135  
Engineers  
Planners  
Surveyors  
Landscape Architects



REVISIONS:

NO.	DATE	BY	DESCRIPTION
3	09/23/24		MASTER PLAN COMMENTS
2	09/03/24		TOWN COUNCIL WORKSHOP
1	05/21/24		MASTER PLAN - FIRST SUBMITTAL

LAMPE MANAGEMENT COMPANY  
**AMPLE STORAGE - EXPANSION**  
TOWN OF KNIGHTDALE ~ ST. MATTHEWS TWP. ~ WAKE CO. ~ NORTH CAROLINA  
**GRADING & STORMWATER**  
**MANAGEMENT PLAN**

DATE: MAY 22, 2024  
DESIGNED BY: MJP  
DRAWN BY: EDN  
CHECKED BY: JSJ  
PROJECT No. 2023008  
DRAWING No. W-4073-MP  
SCALE: 1" = 20'  
SHEET No. **C4.01**

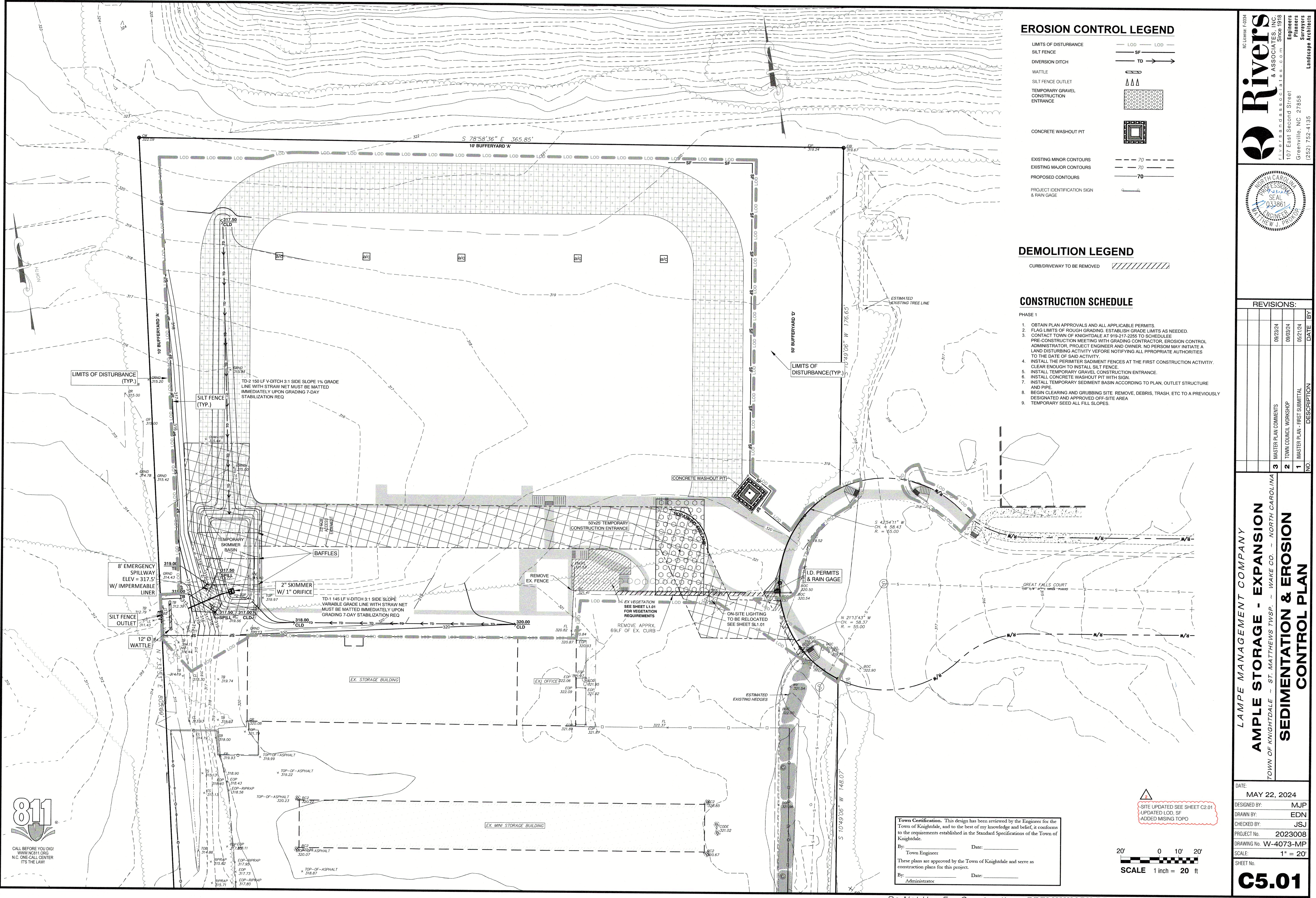
Town Certification: This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
Town Engineer  
These plans are approved by the Town of Knightdale and serve as construction plans for this project.  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
Administrator

2  
-SITE UPDATED SEE SHEET C2.01  
-UPDATE SPOT ELEVATIONS  
20' 0 10' 20'  
SCALE 1 inch = 20 ft









EROSION CONTROL LEGEND

- LIMITS OF DISTURBANCE: LOD
- SILT FENCE: SF
- DIVERSION DITCH: TD
- WATTLE: W
- SILT FENCE OUTLET: SFO
- TEMPORARY GRAVEL CONSTRUCTION ENTRANCE: TGE
- CONCRETE WASHOUT PIT: CWP
- EXISTING MINOR CONTOURS: 70
- EXISTING MAJOR CONTOURS: 70
- PROPOSED CONTOURS: 70
- PROJECT IDENTIFICATION SIGN & RAIN GAGE: PIS

DEMOLITION LEGEND

- CURB/DRIVEWAY TO BE REMOVED: [Hatched Pattern]

CONSTRUCTION SCHEDULE

- PHASE 1
- OBTAIN PLAN APPROVALS AND ALL APPLICABLE PERMITS.
  - FLAG LIMITS OF ROUGH GRADING. ESTABLISH GRADE LIMITS AS NEEDED.
  - CONTACT TOWN OF KNIGHTDALE AT 919-217-2255 TO SCHEDULE PRE-CONSTRUCTION MEETING WITH GRADING CONTRACTOR, EROSION CONTROL ADMINISTRATOR, PROJECT ENGINEER AND OWNER. NO PERSON MAY INITIATE A LAND DISTURBING ACTIVITY BEFORE NOTIFYING ALL APPROPRIATE AUTHORITIES TO THE DATE OF SAID ACTIVITY.
  - INSTALL THE PERIMETER SEDIMENT FENCES AT THE FIRST CONSTRUCTION ACTIVITY. CLEAR ENOUGH TO INSTALL SILT FENCE.
  - INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE.
  - INSTALL CONCRETE WASHOUT PIT WITH SIGN.
  - INSTALL TEMPORARY SEDIMENT BASIN ACCORDING TO PLAN, OUTLET STRUCTURE AND PIPE.
  - BEGIN CLEARING AND GRUBBING SITE. REMOVE, DEBRIS, TRASH, ETC TO A PREVIOUSLY DESIGNATED AND APPROVED OFF-SITE AREA.
  - TEMPORARY SEED ALL FILL SLOPES.

**Rivers & Associates, Inc.**  
Since 1916  
107 East Second Street  
Greenville, NC 27858  
(252) 752-4135



REVISIONS:				DATE	BY
1	MASTER PLAN COMMENTS	09/23/24			
2	TOWN COUNCIL WORKSHOP	09/23/24			
3	MASTER PLAN - FIRST SUBMITTAL	09/23/24			

**LAMPE MANAGEMENT COMPANY**  
**AMPLE STORAGE - EXPANSION**  
TOWN OF KNIGHTDALE ~ ST. MATTHEWS TWP. ~ WAKE CO. ~ NORTH CAROLINA  
**SEDIMENTATION & EROSION CONTROL PLAN**

DATE: MAY 22, 2024  
DESIGNED BY: MJP  
DRAWN BY: EDN  
CHECKED BY: JSJ  
PROJECT No. 2023008  
DRAWING No. W-4073-MP  
SCALE: 1" = 20'  
SHEET No. **C5.01**

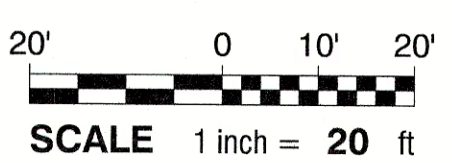
**Town Certification.** This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.

By: \_\_\_\_\_ Date: \_\_\_\_\_  
Town Engineer

These plans are approved by the Town of Knightdale and serve as construction plans for this project.

By: \_\_\_\_\_ Date: \_\_\_\_\_  
Administrator

△  
SITE UPDATED SEE SHEET C2.01  
UPDATED LOD, SF  
ADDED MISSING TOPO



P:\LANDMAN\AMPLE-STE-KNIGHTDALE-2023008\CADD, DWG\SHEETS\MASTER PLAN\W-4073-BROCKW.PLT DWG - LAYOUT - 09/23/2024 11:26:09 AM - MATI PRINCE

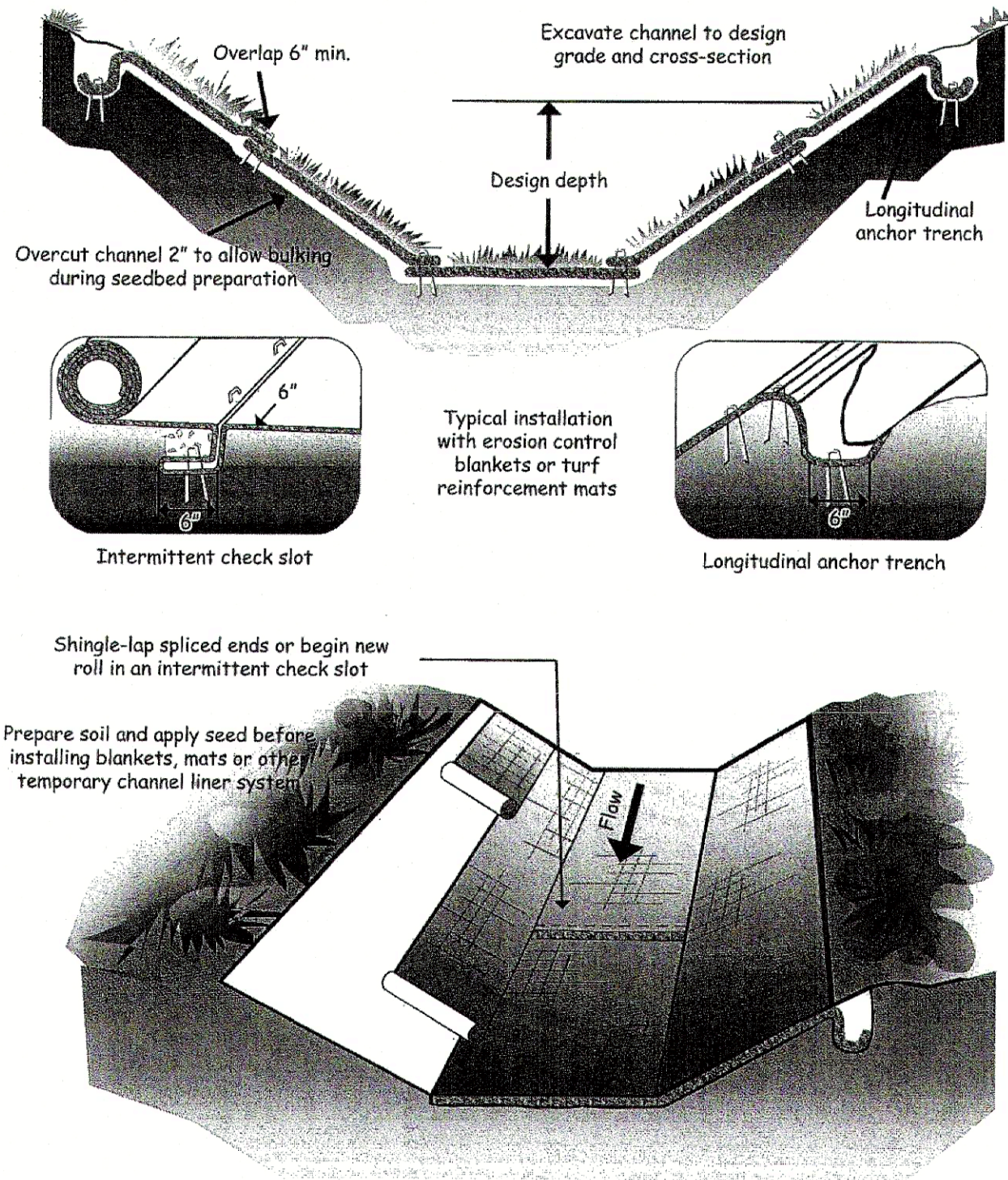






## RECP DETAIL

N.T.S.



- NOTES:
- Design velocities exceeding 2 ft/sec require temporary blankets, mats or similar liners to protect seed and soil until vegetation becomes established.
  - Grass-lined channels with design velocities exceeding 6 ft/sec should include turf reinforcement mats

### LINER

#### CONSTRUCTION SPECIFICATIONS

EVEN IF PROPERLY DESIGNED, IF NOT PROPERLY INSTALLED, RECP'S WILL PROBABLY NOT FUNCTION AS DESIRED. PROPER INSTALLATION IS IMPERATIVE. EVEN IF PROPERLY INSTALLED, IF NOT PROPERLY TIMED AND NOURISHED, VEGETATION WILL PROBABLY NOT GROW AS DESIRED. PROPER SEED/VEGETATION SELECTION IS ALSO IMPERATIVE.

GRADE THE SURFACE OF INSTALLATION AREAS SO THAT THE GROUND IS SMOOTH AND LOOSE. WHEN SEEDING PRIOR TO INSTALLATION, FOLLOW THE STEPS FOR SEED BED PREPARATION, SOIL AMENDMENTS, AND SEEDING IN SURFACE STABILIZATION, 6.1. ALL GULLIES, RILLS, AND ANY OTHER DISTURBED AREAS MUST BE FINE GRADED PRIOR TO INSTALLATION. SPREAD SEED BEFORE RECP INSTALLATION. (IMPORTANT: REMOVE ALL LARGE ROCKS, DIRT CLOUDS, STUMPS, ROOTS, GRASS CLUMPS, TRASH, AND OTHER OBSTRUCTIONS FROM THE SOIL SURFACE TO ALLOW FOR DIRECT CONTACT BETWEEN THE SOIL SURFACE AND THE RECP).

TERMINAL ANCHOR TRENCHES ARE REQUIRED AT RECP ENDS AND INTERMITTENT TRENCHES MUST BE CONSTRUCTED ACROSS CHANNELS AT 25-FOOT INTERVALS. TERMINAL ANCHOR TRENCHES SHOULD BE A MINIMUM OF 12 INCHES IN DEPTH AND 6 INCHES IN WIDTH, WHILE INTERMITTENT TRENCHES NEED BE ONLY 6 INCHES DEEP AND 6 INCHES WIDE.

INSTALLATION FOR SLOPES - PLACE THE RECP 2-3 FEET OVER THE TOP OF THE SLOPE AND INTO AN EXCAVATED END TRENCH MEASURING APPROXIMATELY 12 INCHES DEEP BY 6 INCHES WIDE. PIN THE RECP AT 1 FOOT INTERVALS ALONG THE BOTTOM OF THE TRENCH, BACKFILL, AND COMPACT. UNROLL THE RECP DOWN (OR ALONG) THE SLOPE MAINTAINING DIRECT CONTACT BETWEEN THE SOIL AND THE RECP. OVERLAP ADJACENT ROLLS A MINIMUM OF 3 INCHES. PIN THE RECP TO THE GROUND USING STAPLES OR PINS IN A 3 FOOT CENTER-TO-CENTER PATTERN. LESS FREQUENT STAPLING/PINNING IS ACCEPTABLE ON MODERATE SLOPES.

INSTALLATION IN CHANNELS - EXCAVATE TERMINAL TRENCHES (12 INCHES DEEP AND 6 INCHES WIDE) ACROSS THE CHANNEL AT THE UPPER AND LOWER END OF THE LINED CHANNEL SECTIONS. AT 25-FOOT INTERVALS ALONG THE CHANNEL, ANCHOR THE RECP ACROSS THE CHANNEL EITHER IN 6 INCH BY 6 INCH TRENCHES OR BY INSTALLING TWO CLOSELY SPACED ROWS OF ANCHORS. EXCAVATE LONGITUDINAL TRENCHES 6 INCHES DEEP AND WIDE ALONG CHANNEL EDGES (ABOVE WATER LINE) IN WHICH TO BURY THE OUTSIDE RECP EDGES. PLACE THE FIRST RECP AT THE DOWNSTREAM END OF THE CHANNEL. PLACE THE END OF THE FIRST RECP IN THE TERMINAL TRENCH AND PIN IT AT 1 FOOT INTERVALS ALONG THE BOTTOM OF THE TRENCH.

NOTE: THE RECP SHOULD BE PLACED UPSIDE DOWN IN THE TRENCH WITH THE ROLL ON THE DOWNSTREAM SIDE OF THE BENCH.

ONCE PINNED AND BACKFILLED, THE RECP IS DEPLOYED BY WRAPPING OVER THE TOP OF THE TRENCH AND UNROLLING UPSTREAM. IF THE CHANNEL IS WIDER THAN THE PROVIDED ROLLS, PLACE ENDS OF ADJACENT ROLLS IN THE TERMINAL TRENCH, OVERLAPPING THE ADJACENT ROLLS A MINIMUM OF 3 INCHES. PIN AT 1 FOOT INTERVALS, BACKFILL, AND COMPACT. UNROLL THE RECP IN THE UPSTREAM DIRECTION UNTIL REACHING THE FIRST INTERMITTENT TRENCH. FOLD THE RECP BACK OVER ITSELF, POSITIONING THE ROLL ON THE DOWNSTREAM SIDE OF THE TRENCH, AND ALLOWING THE MAT TO CONFORM TO THE TRENCH.

THEN PIN THE RECP (TWO LAYERS) TO THE BOTTOM OF THE TRENCH, BACKFILL, AND COMPACT. CONTINUE UP THE CHANNEL (WRAPPING OVER THE TOP OF THE INTERMITTENT TRENCH) REPEATING THIS STEP AT OTHER INTERMITTENT TRENCHES, UNTIL REACHING THE UPPER TERMINAL TRENCH.

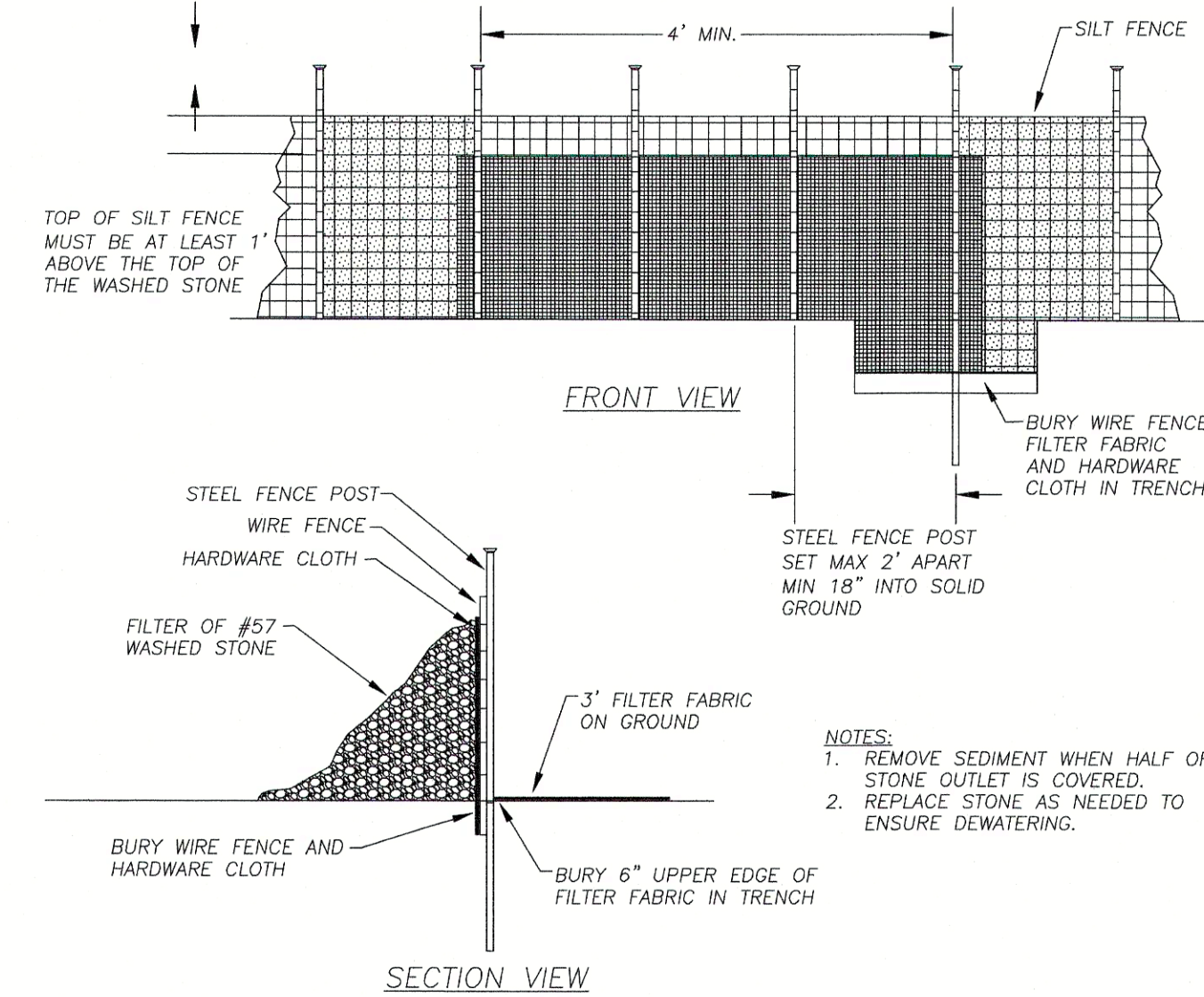
AT THE UPPER TERMINAL TRENCH, ALLOW THE RECP TO CONFORM TO THE TRENCH, SECURE WITH PINS OR STAPLES, BACKFILL, COMPACT AND THEN BRING THE MAT BACK OVER THE TOP OF THE TRENCH AND ONTO THE EXISTING MAT (2 TO 3 FEET OVERLAP IN THE DOWNSTREAM DIRECTION), AND PIN AT 1 FOOT INTERVALS ACROSS THE RECP. WHEN STARTING INSTALLATION OF A NEW ROLL, BEGIN IN A TRENCH OR SHINGLE-LAP ENDS OF ROLLS A MINIMUM OF 1 FOOT WITH UPSTREAM RECP ON TOP TO PREVENT UPLIFTING. PLACE THE OUTSIDE EDGES OF THE RECP(S) IN LONGITUDINAL TRENCHES, PIN, BACKFILL, AND COMPACT.

ANCHORING DEVICES - 11 GAUGE, AT LEAST 6 INCHES LENGTH BY 1 INCH WIDTH STAPLES OR 12 INCH MINIMUM LENGTH WOODEN STAKES ARE RECOMMENDED FOR ANCHORING THE RECP TO THE GROUND.

DRIVE STAPLES OR PINS SO THAT THE TOP OF THE STAPLE OR PIN IS FLUSH WITH THE GROUND SURFACE. ANCHOR EACH RECP EVERY 3 FEET ALONG ITS CENTER. LONGITUDINAL OVERLAPS MUST BE SUFFICIENT TO ACCOMMODATE A ROW OF ANCHORS AND UNIFORM ALONG THE ENTIRE LENGTH OF OVERLAP AND ANCHORED EVERY 3 FEET ALONG THE OVERLAP LENGTH. ROLL ENDS MAY BE SPLICED BY OVERLAPPING 1 FOOT (IN THE DIRECTION OF WATER FLOW), WITH THE UPSTREAM/UNLOFT MAT PLACED ON TOP OF THE DOWNSTREAM/DOWNSLOPE RECP. THIS OVERLAP SHOULD BE ANCHORED AT 1 FOOT SPACING ACROSS THE RECP. WHEN INSTALLING MULTIPLE WIDTH MATS HEAT SEALED IN THE FACTORY, ALL FACTORY SEAMS AND FIELD OVERLAPS SHOULD BE SIMILARLY ANCHORED.

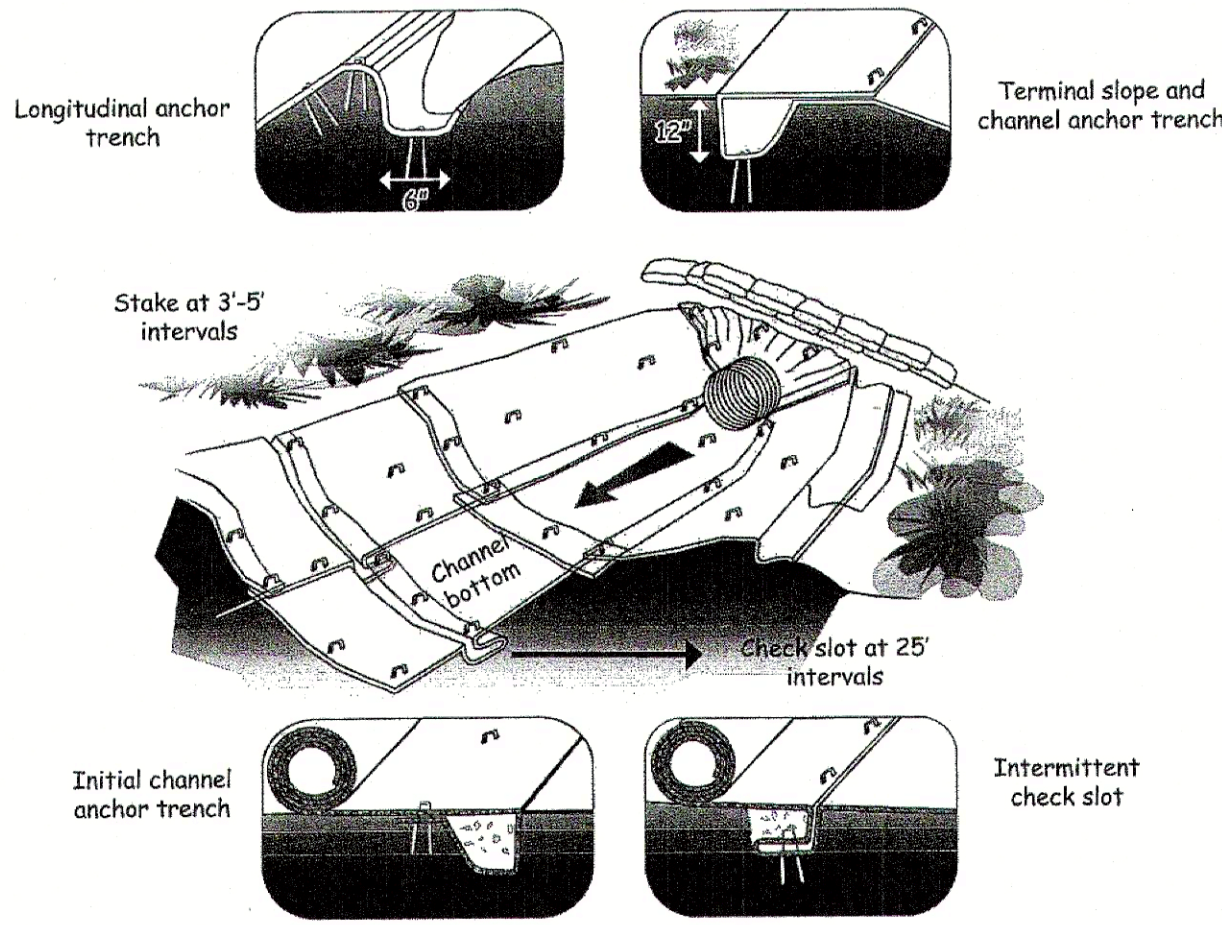
### MAINTENANCE

- INSPECT ROLLED EROSION CONTROL PRODUCTS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAIN FALL EVENT REPAIR IMMEDIATELY.
- GOOD CONTACT WITH THE GROUND MUST BE MAINTAINED, AND EROSION MUST NOT OCCUR BENEATH THE RECP.
- ANY AREAS OF THE RECP THAT ARE DAMAGED OR NOT IN CLOSE CONTACT WITH THE GROUND SHALL BE REPAIRED AND STAPLED.
- IF EROSION OCCURS DUE TO POORLY CONTROLLED DRAINAGE, THE PROBLEM SHALL BE FIXED AND THE ERODED AREA PROTECTED.
- MONITOR AND REPAIR THE RECP AS NECESSARY UNTIL GROUND COVER IS ESTABLISHED.

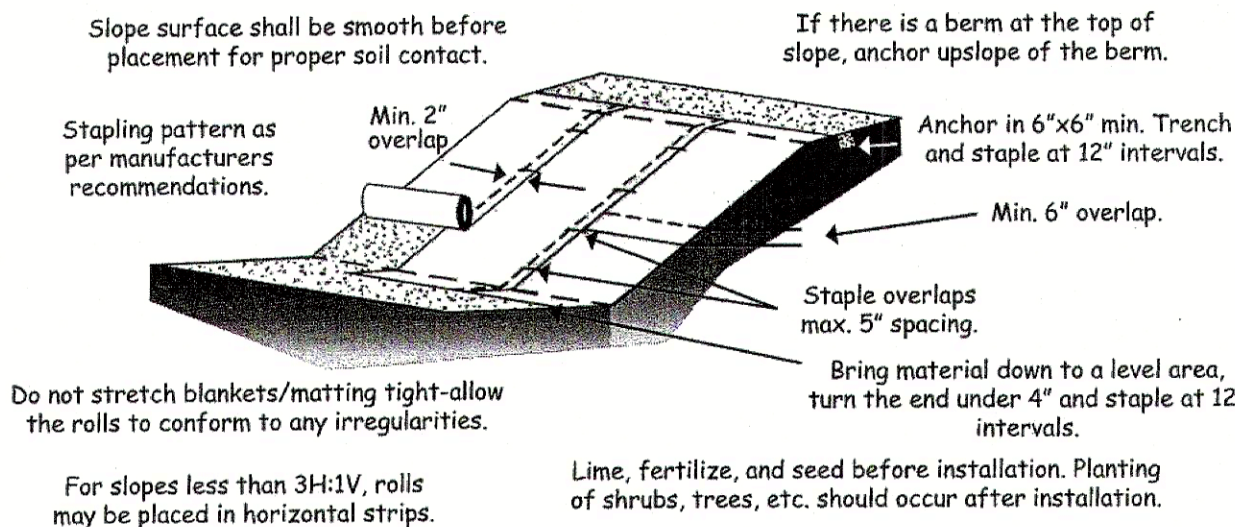


## STANDARD SILT FENCE OUTLET

N.T.S.



- NOTE:
- Check slots to be constructed per manufacturers specifications.
  - Staking or stapling layout per manufacturers specifications.



### LINER

#### CONSTRUCTION SPECIFICATIONS

EVEN IF PROPERLY DESIGNED, IF NOT PROPERLY INSTALLED, RECP'S WILL PROBABLY NOT FUNCTION AS DESIRED. PROPER INSTALLATION IS IMPERATIVE. EVEN IF PROPERLY INSTALLED, IF NOT PROPERLY TIMED AND NOURISHED, VEGETATION WILL PROBABLY NOT GROW AS DESIRED. PROPER SEED/VEGETATION SELECTION IS ALSO IMPERATIVE.

GRADE THE SURFACE OF INSTALLATION AREAS SO THAT THE GROUND IS SMOOTH AND LOOSE. WHEN SEEDING PRIOR TO INSTALLATION, FOLLOW THE STEPS FOR SEED BED PREPARATION, SOIL AMENDMENTS, AND SEEDING IN SURFACE STABILIZATION, 6.1. ALL GULLIES, RILLS, AND ANY OTHER DISTURBED AREAS MUST BE FINE GRADED PRIOR TO INSTALLATION. SPREAD SEED BEFORE RECP INSTALLATION. (IMPORTANT: REMOVE ALL LARGE ROCKS, DIRT CLOUDS, STUMPS, ROOTS, GRASS CLUMPS, TRASH, AND OTHER OBSTRUCTIONS FROM THE SOIL SURFACE TO ALLOW FOR DIRECT CONTACT BETWEEN THE SOIL SURFACE AND THE RECP).

TERMINAL ANCHOR TRENCHES ARE REQUIRED AT RECP ENDS AND INTERMITTENT TRENCHES MUST BE CONSTRUCTED ACROSS CHANNELS AT 25-FOOT INTERVALS. TERMINAL ANCHOR TRENCHES SHOULD BE A MINIMUM OF 12 INCHES IN DEPTH AND 6 INCHES IN WIDTH, WHILE INTERMITTENT TRENCHES NEED BE ONLY 6 INCHES DEEP AND 6 INCHES WIDE.

INSTALLATION FOR SLOPES - PLACE THE RECP 2-3 FEET OVER THE TOP OF THE SLOPE AND INTO AN EXCAVATED END TRENCH MEASURING APPROXIMATELY 12 INCHES DEEP BY 6 INCHES WIDE. PIN THE RECP AT 1 FOOT INTERVALS ALONG THE BOTTOM OF THE TRENCH, BACKFILL, AND COMPACT. UNROLL THE RECP DOWN (OR ALONG) THE SLOPE MAINTAINING DIRECT CONTACT BETWEEN THE SOIL AND THE RECP. OVERLAP ADJACENT ROLLS A MINIMUM OF 3 INCHES. PIN THE RECP TO THE GROUND USING STAPLES OR PINS IN A 3 FOOT CENTER-TO-CENTER PATTERN. LESS FREQUENT STAPLING/PINNING IS ACCEPTABLE ON MODERATE SLOPES.

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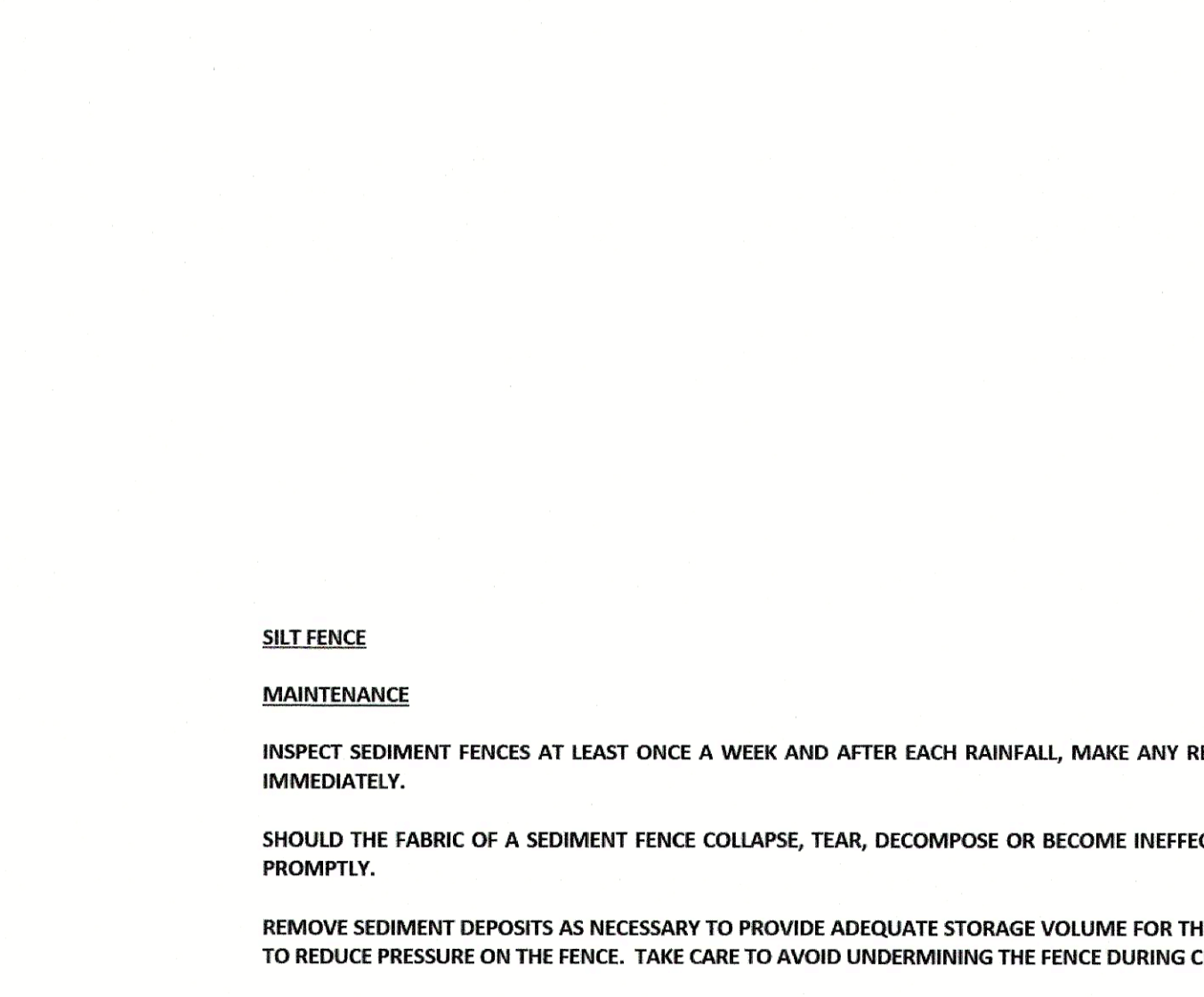
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### MAINTENANCE

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- MONITOR AND REPAIR THE RECP AS NECESSARY UNTIL GROUND COVER IS ESTABLISHED.



### SILT FENCE

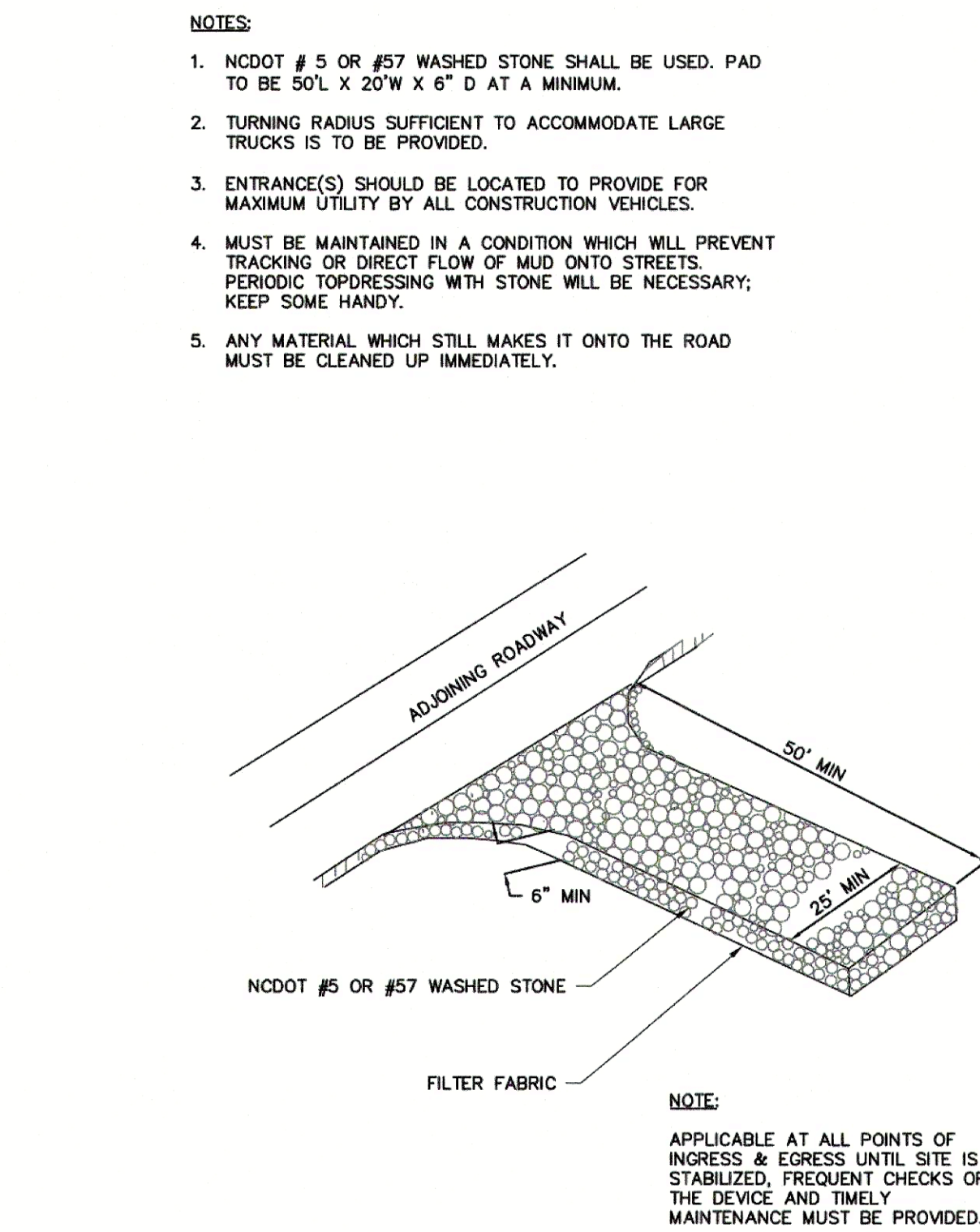
#### MAINTENANCE

INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL, MAKE ANY REQUIRED REPAIRS IMMEDIATELY.

SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.

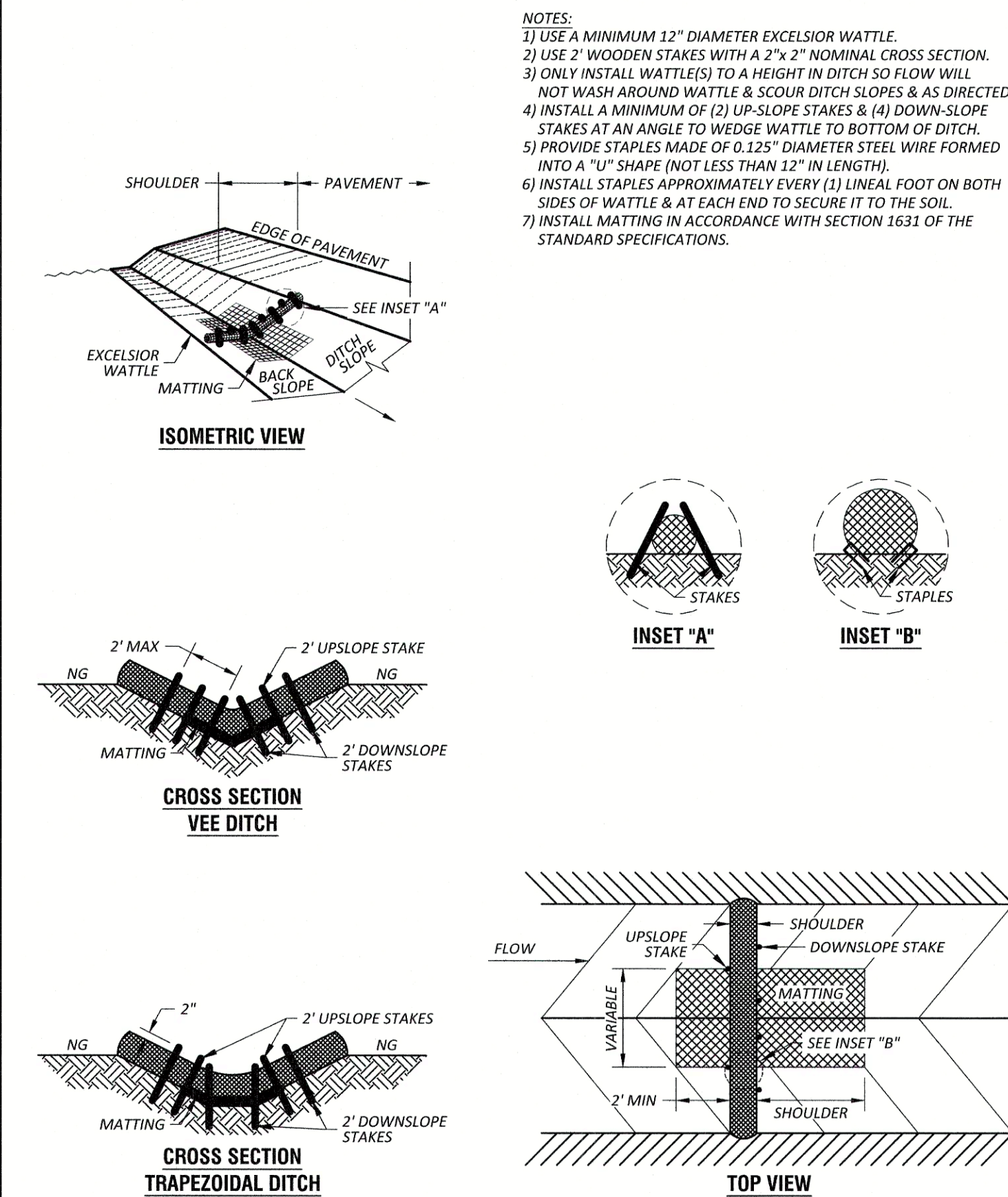
REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.

REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.



- NOTES:
- NC DOT # 5 OR #57 WASHED STONE SHALL BE USED. PAD TO BE 50' L X 20' W X 6" D AT A MINIMUM.
  - TURNING RADIUS SUFFICIENT TO ACCOMMODATE LARGE TRUCKS IS TO BE PROVIDED.
  - ENTRANCE(S) SHOULD BE LOCATED TO PROVIDE FOR MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES.
  - MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH STONE WILL BE NECESSARY; KEEP SOME HANDY.
  - ANY MATERIAL WHICH STILL MAKES IT ONTO THE ROAD MUST BE CLEANED UP IMMEDIATELY.

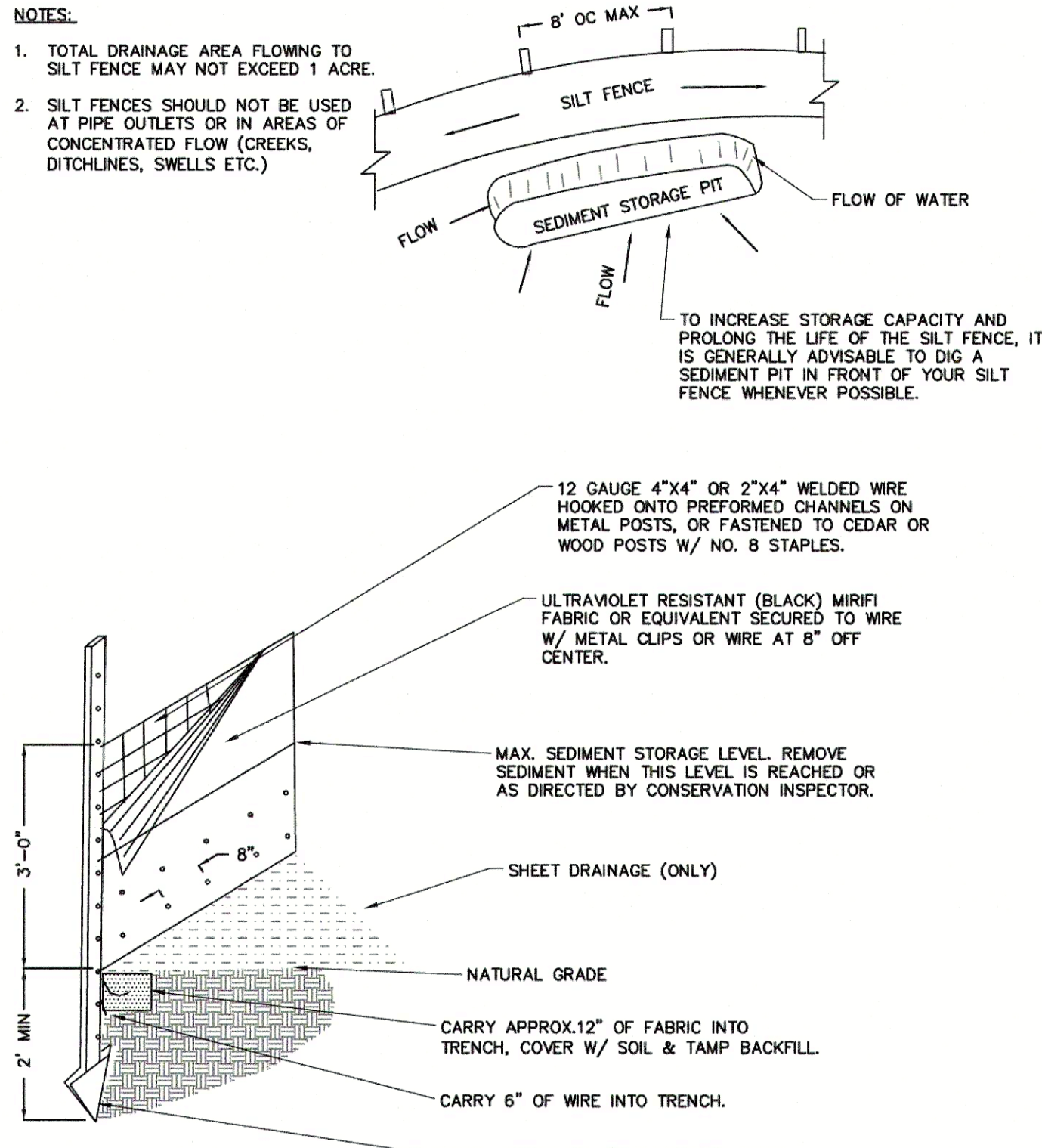
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DATE	DESCRIPTION	
TOWN OF KNIGHTDALE STANDARD DETAILS	TEMPORARY CONSTRUCTION ENTRANCE/EXIT	2.04



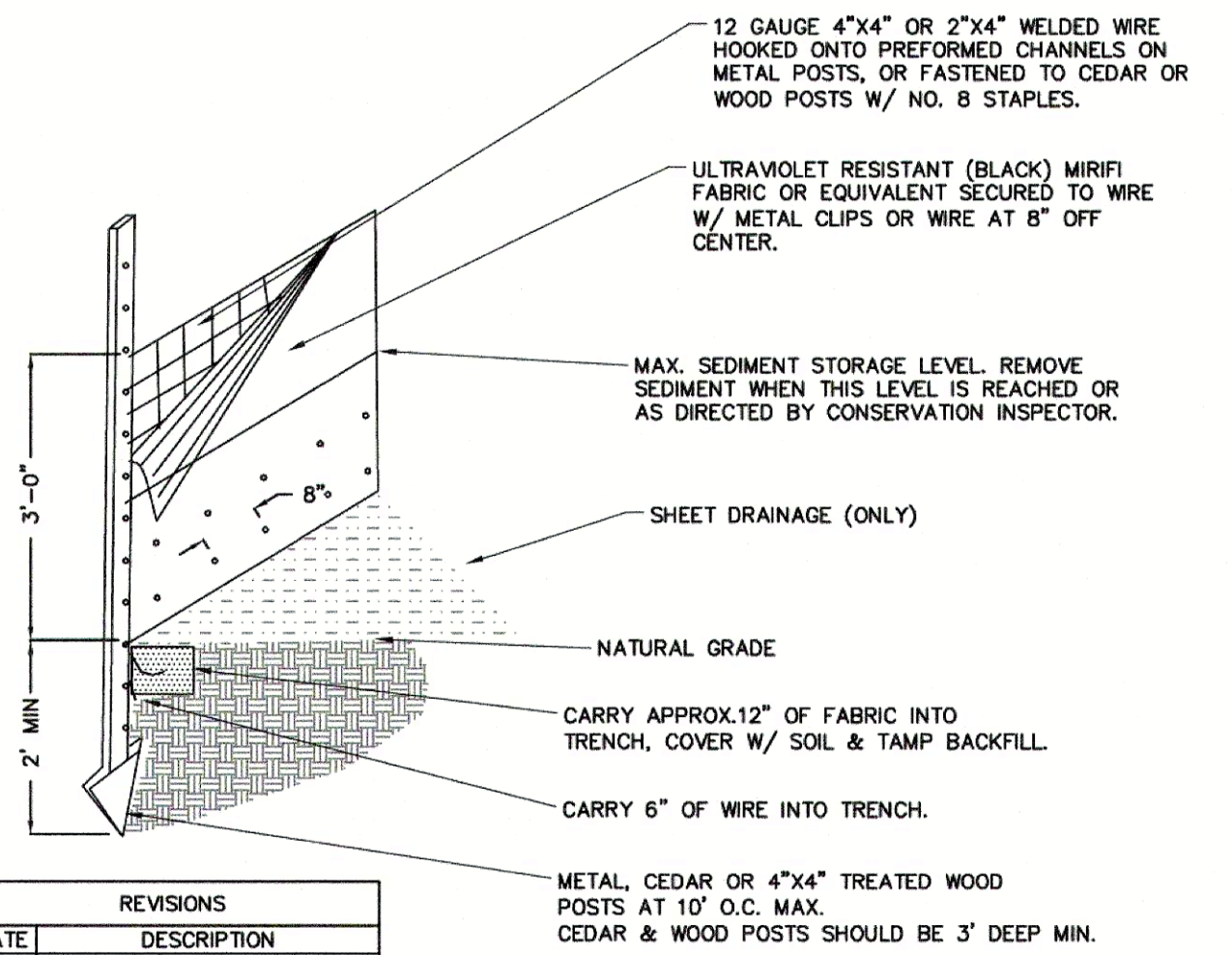
## EXCELSIOR WATTLE

N.T.S.

EC-42



- NOTES:
- TOTAL DRAINAGE AREA FLOWING TO SILT FENCE MAY NOT EXCEED 1 ACRE.
  - SILT FENCES SHOULD NOT BE USED AT PIPE OUTLETS OR IN AREAS OF CONCENTRATED FLOW (CREEKS, DITCHLINES, SWELLS ETC.).



REVISIONS		STD. NO.
DATE	DESCRIPTION	
TOWN OF KNIGHTDALE STANDARD DETAILS	TEMPORARY SILT FENCE	2.03

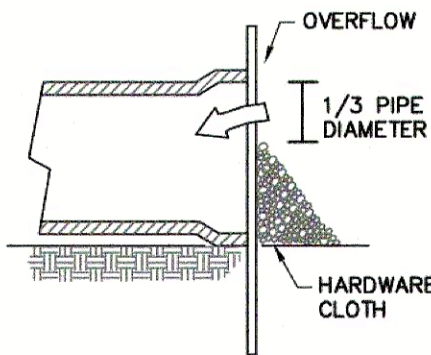
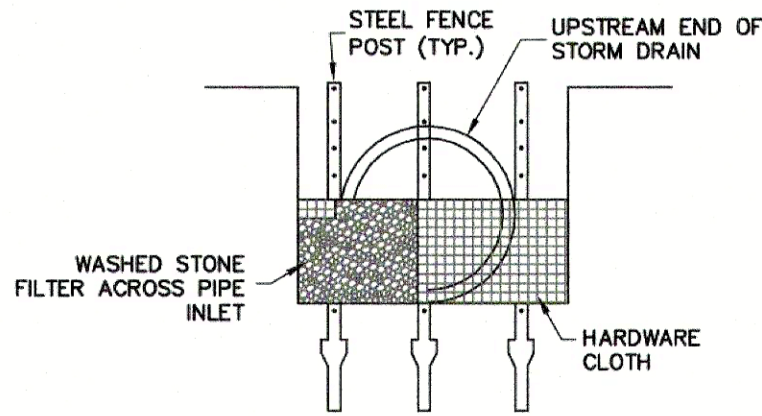
REVISIONS:				DATE	BY
NO.	DESCRIPTION	DATE	BY		
3	MASTER PLAN COMMENTS	09/23/24			
2	TOWN COUNCIL WORKSHOP	09/03/24			
1	MASTER PLAN - FIRST SUBMITTAL	05/21/24			

DATE:	MAY 22, 2024
DESIGNED BY:	MJP
DRAWN BY:	EDN
CHECKED BY:	JSJ
PROJECT No.	2023008
DRAWING No.	W-4073-MP
SCALE:	1" = 20'
SHEET No.	



NOTE:

ALL PARTIALLY COMPLETED STORM DRAINS SHALL BE PROTECTED AT THE END OF EACH DAY IN ACCORDANCE WITH THESE DRAWINGS.



REVISIONS	
DATE	DESCRIPTION
TOWN OF KNIGHTDALE STANDARD DETAILS	

PIPE INLET PROTECTION

STD. NO.  
2.09

DESIGN OF SPILLWAYS

DRAINAGE AREA (ACRES)	MINIMUM WEIR LENGTH (FT)
1	4.0
2	6.0
3	8.0
4	10.0
5	12.0

NOTES:

1. HEIGHT & WIDTH DETERMINED BY EXISTING TOPOGRAPHY AND SEDIMENT STORAGE REQUIRED.
2. KEY RIP RAP INTO THE DAM FOR STABILIZATION.

REVISIONS	
DATE	DESCRIPTION
TOWN OF KNIGHTDALE STANDARD DETAILS	

STANDARD CHECK DAM

STD. NO.  
2.05

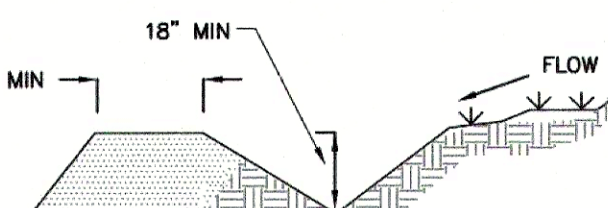
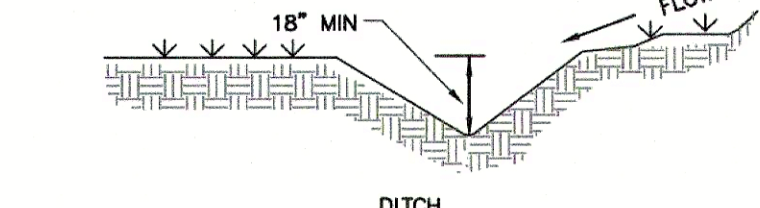
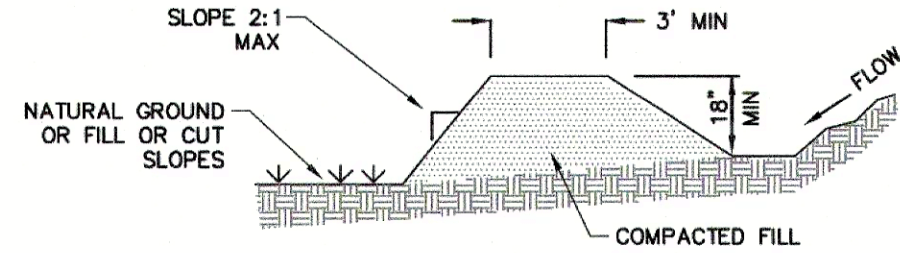
REVISIONS	
DATE	DESCRIPTION
TOWN OF KNIGHTDALE STANDARD DETAILS	

STANDARD SEDIMENT BASIN

STD. NO.  
2.07

NOTES:

1. MACHINE COMPACTION OF ALL FILL IS REQUIRED. DIVERSIONS SUFFICIENT TO DIRECT ALL SEDIMENT-LADEN STORMWATER INTO A SEDIMENT CONTROL DEVICE MUST BE INSTALLED PRIOR TO CLEARING AND GRUBBING OF THE AREA (OR IN CONJUNCTION WITH THIS OPERATION IF SEDIMENT CONTROLS AND DIVERSIONS ARE INSTALLED AS EACH CRITICAL POINT IS REACHED).
2. DIVERSIONS SHOULD BE LOCATED TO MINIMIZE DAMAGES BY CONSTRUCTION OPERATIONS.
3. DIVERSIONS SHOULD BE SEEDED AND MULCHED IF THEY ARE TO REMAIN IN PLACE OVER 30 DAYS.
4. CHECK DEVICE AFTER EACH RAIN, BUT ONCE A WEEK REGARDLESS. REPAIR AS NECESSARY.



NOTE:

POSITIVE GRADE MUST BE PROVIDED TO ASSURE DRAINAGE. IF SLOPE EXCEEDS 2%, SEED AND MULCH DIVERSION. TRY NOT TO EXCEED 2% (HIGH VELOCITIES RESULT). MAXIMUM DRAINAGE AREA ~ 5 ACRES WITHOUT SUPPORTING CALCS. DIVERSIONS AT THE TOP OF SLOPES MUST DUMP INTO AN APPROVED SLOPE DRAIN. BERM/DITCH IS MOST COMMONLY USED.

REVISIONS	
DATE	DESCRIPTION
TOWN OF KNIGHTDALE STANDARD DETAILS	

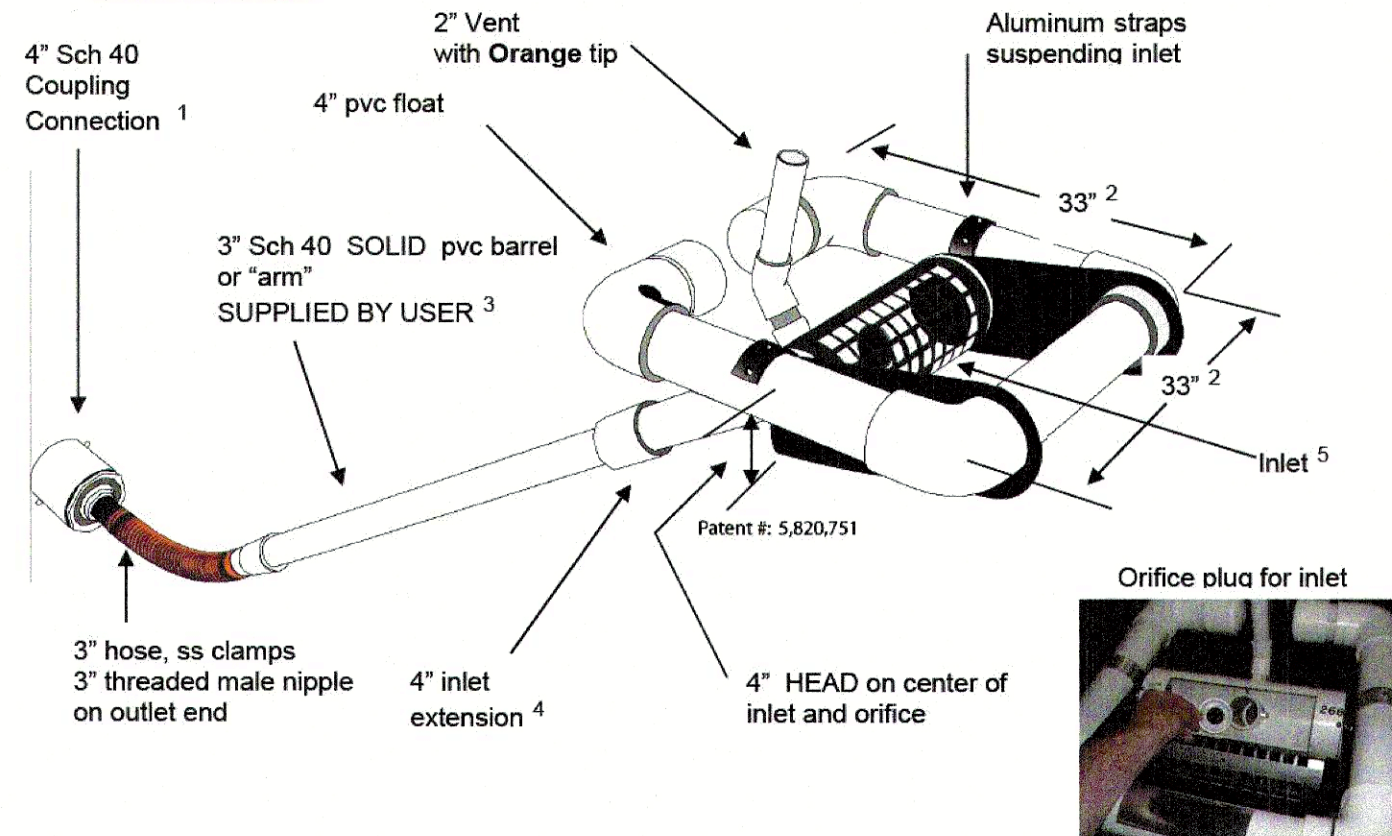
TEMPORARY DIVERSION BERM/DITCH

STD. NO.  
2.02

4" Faircloth Skimmer® Surface Drain Cut Sheet

J. W. Faircloth & Son, Inc.  
[www.FairclothSkimmer.com](http://www.FairclothSkimmer.com)

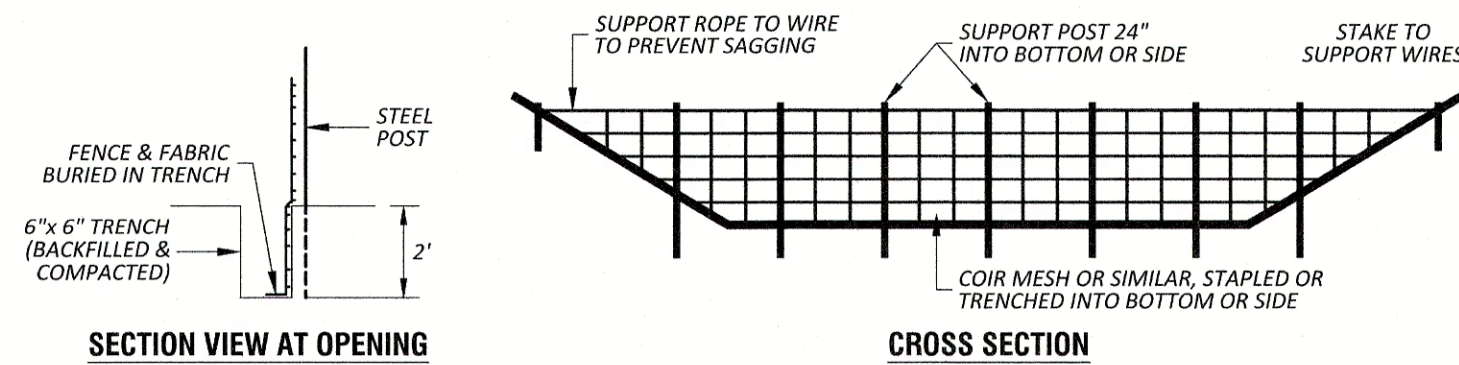
Skimmer shown in  
floating position



1. Coupling can be removed and hose attached to outlet using the threaded 3" nipple. Typical methods used: on a metal structure a steel stubout welded on the side at the bottom with a 3" threaded coupling or reducers; on a concrete structure with a hole or orifice at the bottom, use a steel plate with a hole cut in it and coupling welded to it that will fit over the hole in the concrete and bolted to the structure with sealant. It is possible to grout a 4" pvc pipe in a hole in the concrete to connect the skimmer but this is less secure than other methods.
2. Dimensions are approximate, not intended as plans for construction.
3. Barrel (solid, not foam core pipe) should be 1.4 times the depth of water with a minimum length of 8' so the inlet can be pulled to the side for maintenance. If more than 10' long weight may have to be added to inlet to counter the increased buoyancy.
4. Inlet tapers down from 4" maximum inlet to a 3" barrel and hose. Barrel is smaller to reduce buoyancy and tendency to lift inlet but is sufficient for flow through inlet because of slope. The inlet orifice can be reduced using the plug and cutter provided to control the outflow rate.
5. Inlet is 8" pipe between the straps with slots cut in the inlet and aluminum screen door (smaller than shown in illustration) for access to the 4" inlet and orifice inside.
6. Capacity 20,109 cubic feet per day maximum with 4" inlet and 4" head. Inlet can be reduced by installing a smaller orifice using the plug and cutter provided to adjust flow rate for the particular basin volume and drawdown time required.
7. Shipped assembled. User glues inlet extension and barrel, installs vent, cuts orifice in plug and attaches to outlet pipe or structure. Includes flexible hose, rope, orifice cutter, etc.

4inchCut TM 11-07

January 15, 2019



- NOTES:
- 1) BAFFLE MATERIAL SHOULD BE SECURED AT THE BOTTOM & SIDES USING STAPLES OR BY TRENCHING AS FOR SILT FENCE.
  - 2) MOST OF THE SEDIMENT WILL ACCUMULATE IN THE FIRST BAY, WHICH SHOULD BE READILY ACCESSIBLE FOR MAINTENANCE.
  - 3) PROVIDE 3 BAFFLES (USE 2 IF LESS THAN 20' IN LENGTH). PROVIDE 5 BAFFLES FOR DRAINAGE AREAS GREATER THAN 10 ACRES.
  - 4) BAFFLE SHALL BE 700 G/M2 COIR EROSION BLANKET.
  - 5) TOPS OF BAFFLES SHALL BE 2" LOWER THAN THE TOP OF THE BERMS.
  - 6) INSPECT BAFFLES FOR REPAIR ONCE A WEEK AND AFTER EACH RAINFALL.

STANDARD BAFFLES  
N.T.S.

Town Certification: This design has been reviewed by the Engineers for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.

By: \_\_\_\_\_ Date: \_\_\_\_\_  
Town Engineer

These plans are approved by the Town of Knightdale and serve as construction plans for this project.

By: \_\_\_\_\_ Date: \_\_\_\_\_  
Administrator



REVISIONS:

NO.	DESCRIPTION	DATE	BY
3	MASTER PLAN COMMENTS	09/23/24	
2	TOWN COUNCIL WORKSHOP	09/03/24	
1	MASTER PLAN - FIRST SUBMITAL	05/21/24	

DATE:  
MAY 22, 2024

DESIGNED BY: MJP

DRAWN BY: EDN

CHECKED BY: JSJ

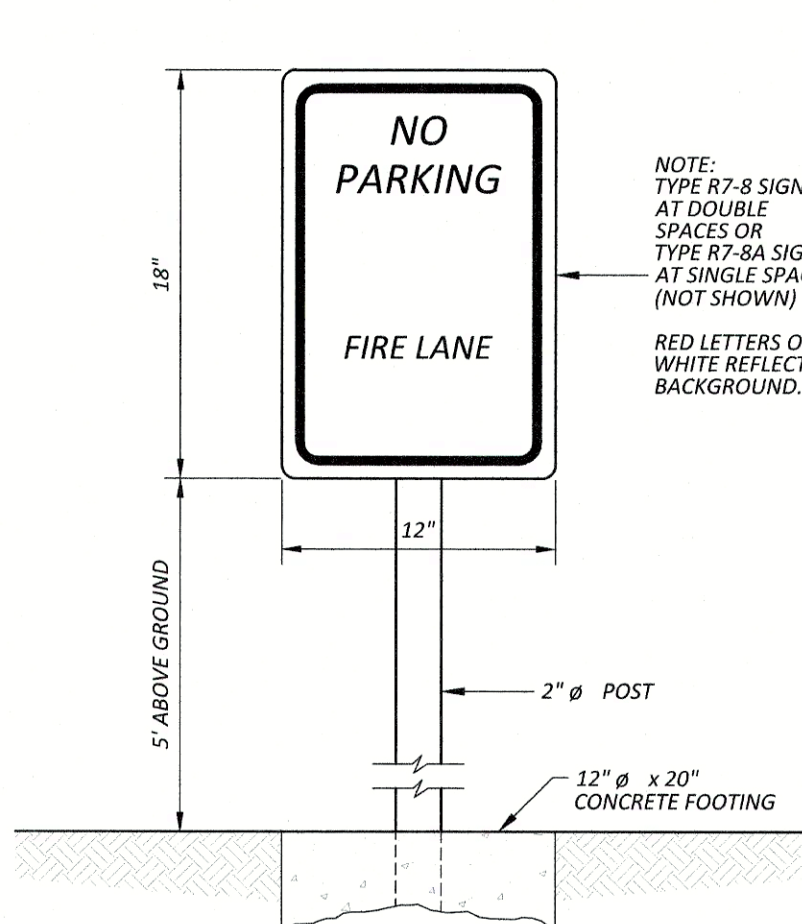
PROJECT No. 2023008

DRAWING No. W-4073-MP

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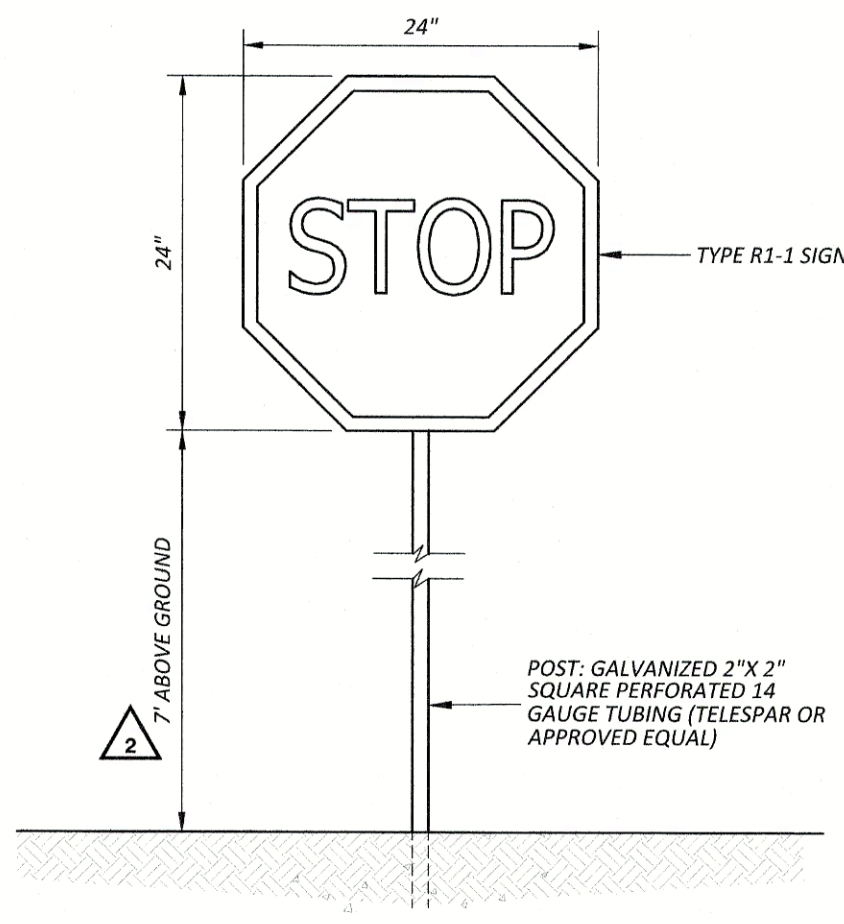
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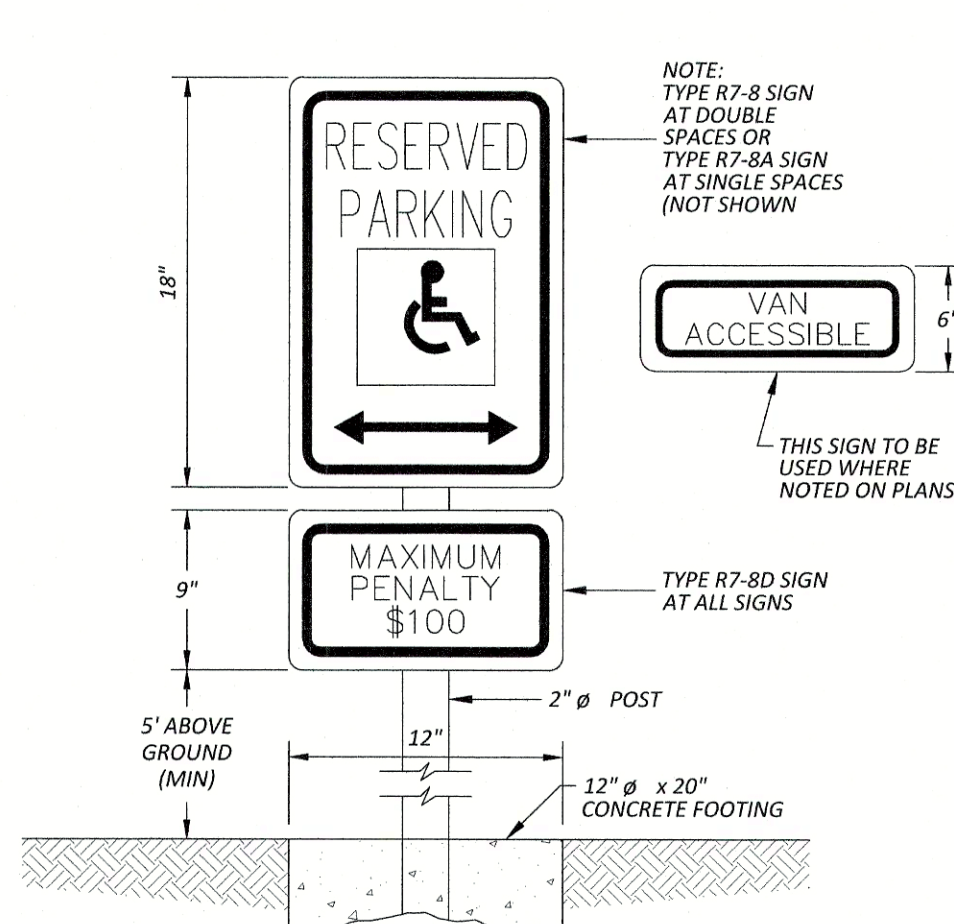
FIRE LANE SIGN

N.T.S.  
PVMT-40A MOD



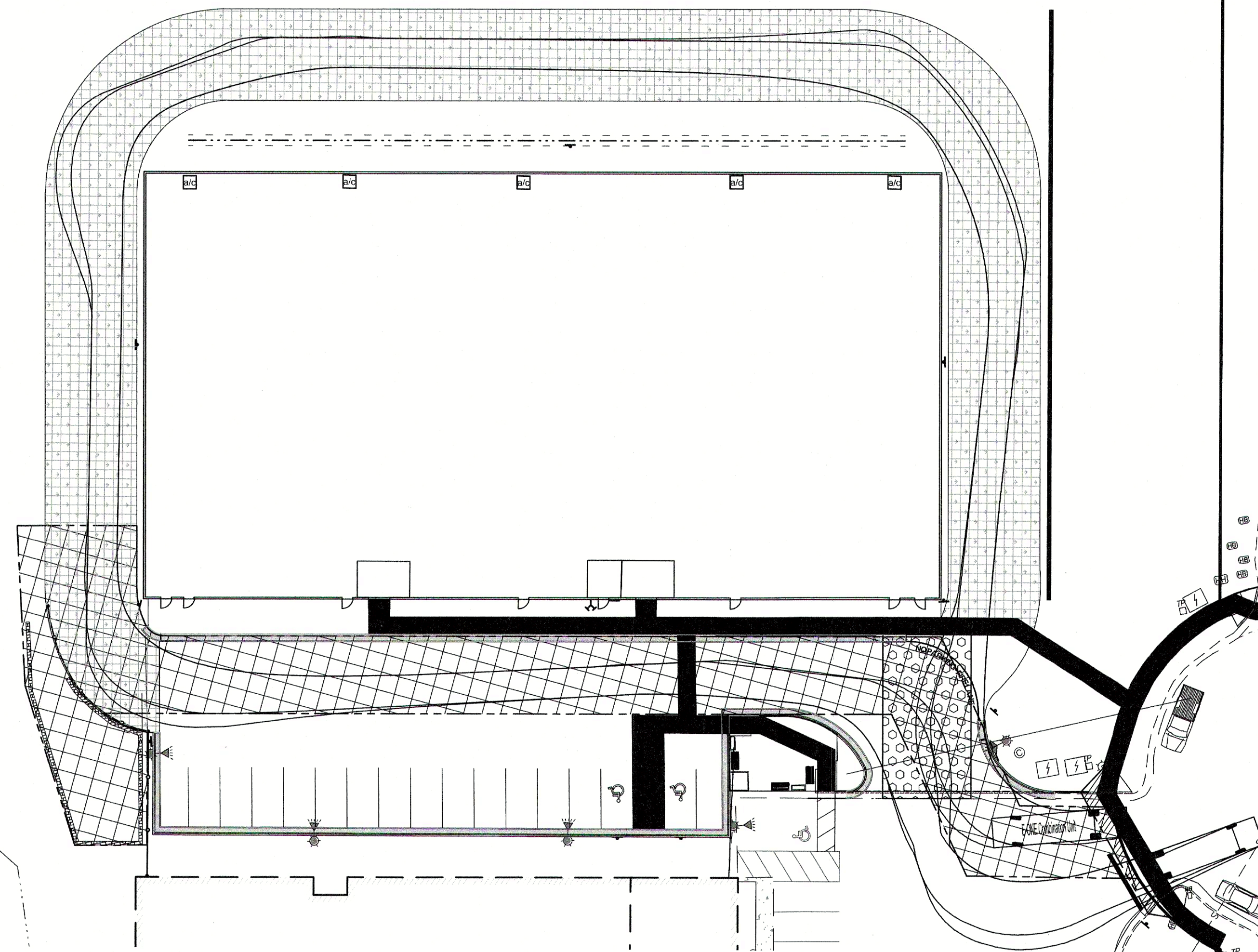
STOP SIGN

N.T.S.

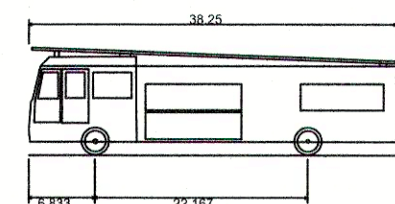


HANDICAPPED SIGN

N.T.S.  
PVMT-06A MOD

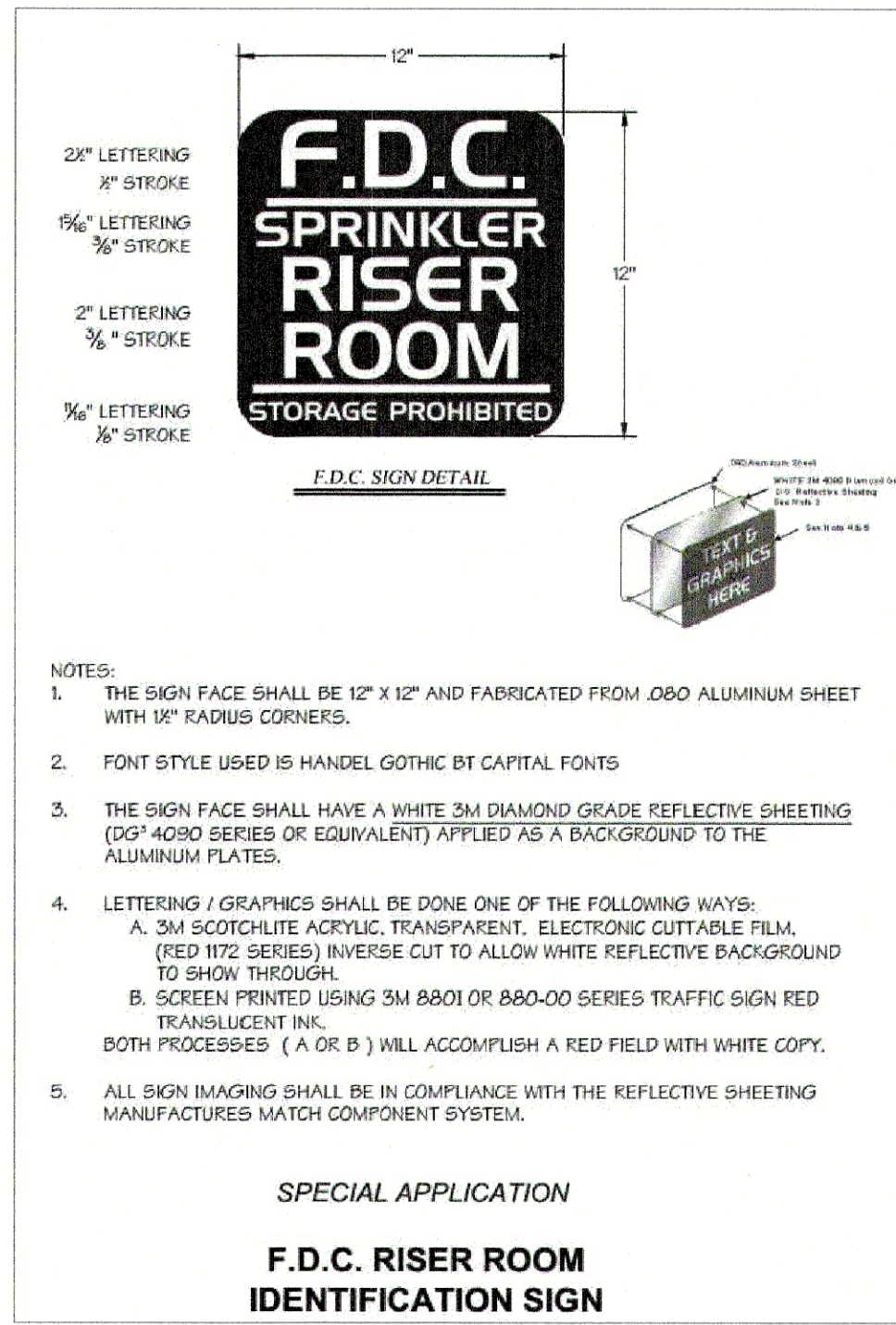


30' 0 15' 30'  
SCALE 1 inch = 30 ft



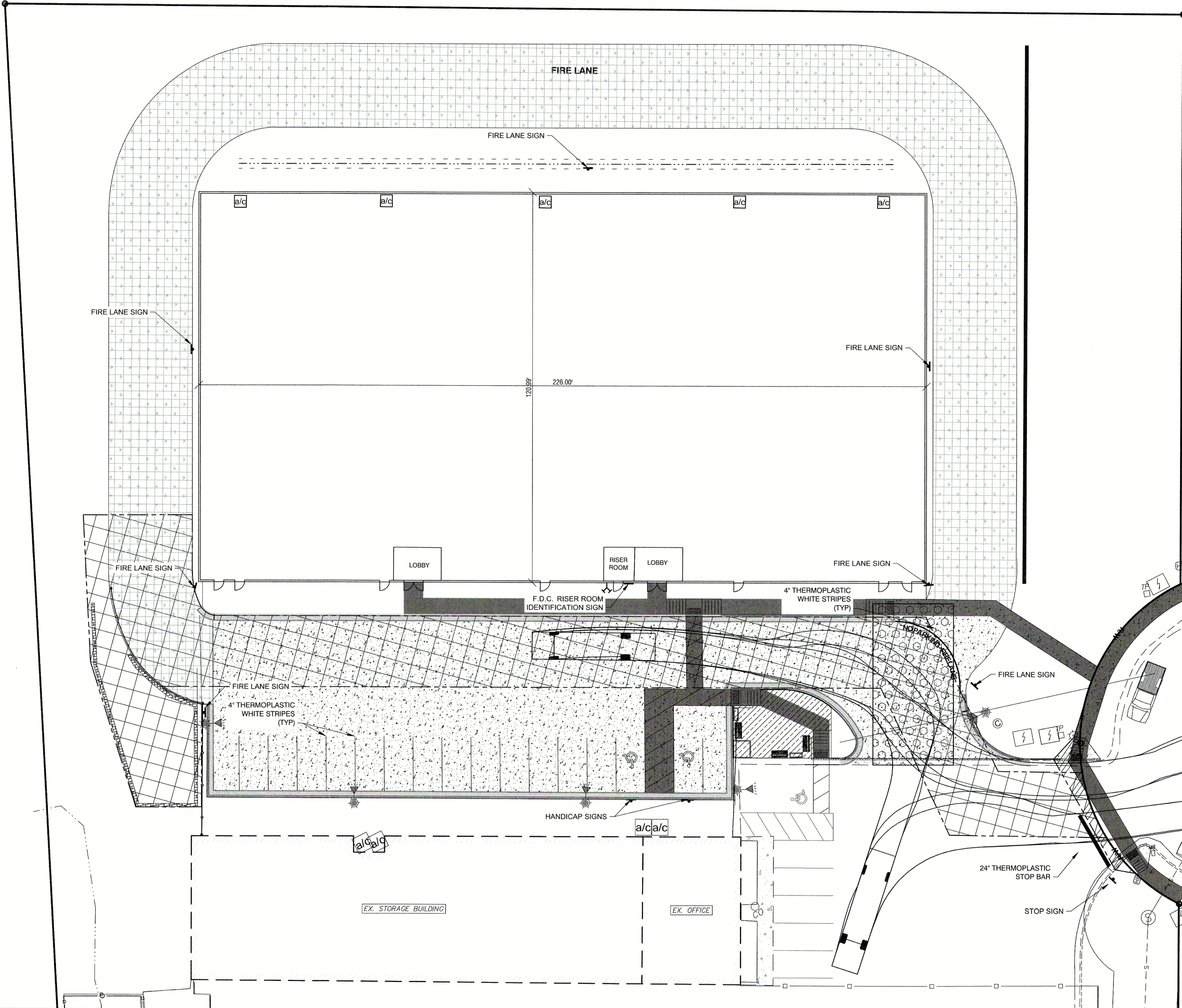
E-ONE Combination Unit  
Overall Length 38.250ft  
Overall Width 8.333ft  
Overall Body Height 11.250ft  
Min Body Ground Clearance 1.393ft  
Track Width 8.333ft  
Lock-to-lock time 6.00s  
Max Wheel Angle 45.00°

VEHICLE DETAIL



- NOTES:
1. THE SIGN FACE SHALL BE 12" X 12" AND FABRICATED FROM .080 ALUMINUM SHEET WITH 1/8" RADIUS CORNERS.
  2. FONT STYLE USED IS HANDEL GOTHIC BT CAPITAL FONTS
  3. THE SIGN FACE SHALL HAVE A WHITE 3M DIAMOND GRADE REFLECTIVE SHEETING (20\"/>

SPECIAL APPLICATION  
F.D.C. RISER ROOM IDENTIFICATION SIGN



20' 0 10' 20'  
SCALE 1 inch = 20 ft



Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
Town Engineer  
These plans are approved by the Town of Knightdale and serve as construction plans for this project.  
By: \_\_\_\_\_ Date: \_\_\_\_\_  
Administrator

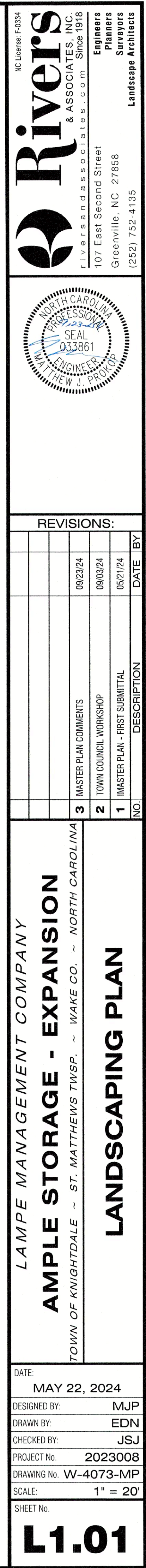


REVISIONS:			
NO.	DESCRIPTION	DATE	BY
3	MASTER PLAN COMMENTS	09/23/24	
2	TOWN COUNCIL WORKSHOP	09/03/24	
1	MASTER PLAN - FIRST SUBMITTAL	05/21/24	

LAMPE MANAGEMENT COMPANY  
**AMPLE STORAGE - EXPANSION**  
TOWN OF KNIGHTDALE ~ ST. MATTHEWS TWP. ~ WAKE CO. ~ NORTH CAROLINA  
**PAVEMENT MARKING, SIGNAGE & TRAFFIC CONTROL PLAN**

DATE: MAY 22, 2024  
DESIGNED BY: MJP  
DRAWN BY: EDN  
CHECKED BY: JSJ  
PROJECT No. 2023008  
DRAWING No. W-4073-MP  
SCALE: 1" = 20'  
SHEET No.  
**C6.41**







P:\LANDSCAPE\LAMPE\_AMPLE\_STORAGE\_EXPANSION\L2.01\_LANDSCAPE.DWG - LAYOUT 2 - 9/23/2024 11:27:09 AM - MAT PROTOP

17' - 3/4"

22' - 1/4"

VARIES 4' & 5'

3/8" CORROSION-RESISTANT ANCHOR BOLTS

CLEARANCE FOR 3/8" ANCHOR BOLTS

46' - 1/8" CENTER TO CENTER

58' - 1/8" CENTER TO CENTER

**SPECIFICATIONS:**

**MANUFACTURER:**  
VICTOR STANLEY \*

**MODEL:**  
C-138  
CLASSIC SERIES 4 FT & 5 FT  
IPE WOOD SLATS & DUCTILE IRON CASTINGS

**COLOR:**  
BLACK POWDER COAT

**CONTACT:**  
JEFF HASLEY  
HASLEY & ASSOCIATES  
P-1.704.336.9246

**NOTES:**

1. REFER TO SITE PLAN FOR BENCH LOCATIONS.
2. INSTALL PER MANUFACTURER'S DETAILS AND SPECIFICATIONS.
3. CORROSION-RESISTANT ANCHORING HARDWARE SUPPLIED BY CONTRACTOR.
4. \* OR APPROVED EQUAL. SPECIFICATIONS AND DRAWINGS TO BE SUBMITTED FOR APPROVAL BY LANDSCAPE ARCHITECT.

**BENCH**

**ELEVATION, PERSPECTIVE DIAGRAM, IMAGE**

N.T.S.

**NOTE:**  
TREES SHALL BE STAKED ONLY IF DIRECTED BY THE OWNER

SET ROOT BALL FLUSH WITH FINISH GRADE

MULCH RING 8" DIA.

DOUBLE SHREDDED HARDWOOD BARK MULCH (DYED COLOR ENHANCED - BROWN) MIN. 3" THK. DO NOT PLACE MULCH IN CONTACT WITH THE TREE TRUNK.

EXCAVATE 2x ROOT BALL DIA. PLACE BACKFILL MIXTURE IN 12" LIFTS & THOROUGHLY WATER BETWEEN LIFTS

TAMP SOIL AROUND ROOT BALL BASE FIRMLY WITH FOOT PRESSURE SO THAT ROOT BALL DOES NOT SHIFT.

EACH TREE MUST BE PLANTED SUCH THAT THE TRUNK FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. TREES WHERE THE TRUNK FLARE IS NOT VISIBLE SHALL BE REJECTED. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL.

4" HIGH TOPSOIL SAUCER BEYOND EDGE OF ROOT BALL

REMOVE ALL TWINE, ROPE, WIRE AND BURLAP FROM TOP HALF OF THE ROOT BALL.

IF THE PLANT IS SHIPPED WITH A WIRE BASKET AROUND THE ROOT BALL, CUT THE WIRE BASKET IN FOUR PLACES AND FOLD DOWN 8" INTO THE PLANTING HOLE.

PLACE ROOT BALL ON UNEXCAVATED OR TAMPED SOIL.

**TREE PLANTING - LARGE & SMALL**

N.T.S.

LSCP-14

44"

16"

TOP

SECTION

48"

25"

44' - 5/16"

ELEVATION

BOTTOM

(4) 3/8" - 13 UNC INSERTS TO HOLD REBAR

2" DRAIN / IRRIGATION HOLE

**SPECIFICATIONS:**

**MANUFACTURER:**  
WAUSAU MADE \*

**MODEL:**  
TF4165 (48" x 18" x 25")  
2" DRAIN HOLE FOR DRAINAGE AND IRRIGATION

**COLOR:**  
TBD - COLOR AND FINISH TO MATCH ROUND PLANTERS

**CONTACT:**  
BRET LYNCH - WAUSAU MADE SITE FURNISHINGS  
P-336.260.0587

**NOTES:**

1. REFER TO SITE PLAN FOR PLANTER LOCATION.
2. INSTALL PER MANUFACTURER'S DETAILS AND SPECIFICATIONS.
3. \* OR APPROVED EQUAL. SPECIFICATIONS AND DRAWINGS TO BE SUBMITTED FOR APPROVAL BY LANDSCAPE ARCHITECT.

**CONCRETE PLANTER (RECTANGULAR)**

**PLAN, ELEVATION, SECTION, IMAGE**

N.T.S.

**NOTE:**  
FOR PARKING LOT SCREENING, SHRUBS SHALL BE PLACED 4' O.C.

SELECTIVELY THIN ALL BRANCHING TO REMOVE DISCOLORED FOLIAGE; MAINTAIN PLANT SHAPE

DOUBLE SHREDDED HARDWOOD BARK MULCH (DYED COLOR ENHANCED - BROWN) MIN. 3" O.C. DO NOT PLACE MULCH IN CONTACT WITH THE TRUNK. TOP OF ROOT BALL SHALL BE 1"-2" ABOVE SURROUNDING FINISHED GRADE

CONTAINER STOCK: REMOVE CONTAINER AND LOOSEN ROOT BALL PRIOR TO INSTALLATION. CUT ALL ENCIRCLING ROOTS

EXCAVATE 2x ROOT BALL DIAMETER. PLACE BACKFILL MIXTURE (REFER TO SPECS) IN 12" LIFTS & THOROUGHLY WATER BETWEEN LIFTS.

TAMP SOIL AROUND ROOT BALL BASE FIRMLY WITH FOOT PRESSURE SO THAT ROOT BALL DOES NOT SHIFT.

REMOVED BURLAP FROM TOP 1/2 OF ROOT BALL

CREATE 3" WATER SAUCER FOR INDIVIDUALLY PLANTED SHRUBS. CREATE MULCHED BEDS FOR MASS PLANTING

UNDISTURBED SUBGRADE

**SHRUB PLANTING**

N.T.S.

LSCP-02A

DOUBLE-SHREDDED HARDWOOD BARK MULCH

BED EDGE

FINISH GRADE

TOPSOIL LAYER

**PLANTING BED EDGE**

N.T.S.

LSCP-15

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.

By: \_\_\_\_\_ Date: \_\_\_\_\_  
Town Engineer

These plans are approved by the Town of Knightdale and serve as construction plans for this project.

By: \_\_\_\_\_ Date: \_\_\_\_\_  
Administrator

20' 0 10' 20'

SCALE 1 inch = 20 ft

NC License F-0334

**Rivers**

& ASSOCIATES, INC.

Since 1918

107 East Second Street  
Greenville, NC 27856  
(252) 752-4135

Engineers  
Planners  
Surveyors  
Landscape Architects



REVISIONS:			
NO.	DATE	DESCRIPTION	BY
3	08/23/24	MASTER PLAN COMMENTS	
2	09/03/24	TOWN COUNCIL WORKSHOP	
1	05/21/24	MASTER PLAN - FIRST SUBMITTAL	

LAMPE MANAGEMENT COMPANY

**AMPLE STORAGE - EXPANSION**

TOWN OF KNIGHTDALE ~ ST. MATTHEWS TWP. ~ WAKE CO. ~ NORTH CAROLINA

**LANDSCAPING DETAILS**

DATE: MAY 22, 2024

DESIGNED BY: MJP

DRAWN BY: EDN

CHECKED BY: JSJ

PROJECT No. 2023008

DRAWING No. W-4073-MP

SCALE: 1" = 20'

SHEET No.

**L2.01**



LIGHT FIXTURE SCHEDULE											
MARK	DESCRIPTION	LOUVER/LENS	LAMPS			VOLTAGE	INPUT WATTAGE	MOUNTING	REMARKS	MFG	MODEL
			TYPE	LUMENS	CCT						
V	COLOR SELECTABLE WALL PACK	ACRYLIC	LED	1454	4000K	120VLT (120-277)	10.9	WALL - 15" AFF	1-3	TAMULITE	ARC1 LED P1 40K 120VLT PE D08XD
X	COMPACT AREA POLE LIGHT	ACRYLIC	LED	3509	4000K	120VLT (120-277)	27.2	POLE - 25" AFF	1-4	NATURELED	7616 LED-FXSAL29/40K/DB/35 WITH GLARE SHIELD RAB PS4-1125D2 STEEL POLE

- CONFIRM FINISH WITH ARCHITECT AND OWNER BEFORE ORDERING.
- FIXTURE TO BE OUTDOOR RATED.
- CONTROLLED VIA PHOTOCELL.
- MOUNTING: E46/SB/SF/WM/PM/POKE MOUNT

GENERAL ELECTRICAL NOTES:

ADMINISTRATIVE:

- THE FOLLOWING ABBREVIATIONS SHALL APPLY TO NOTES AND PLANS:  
PC - PLUMBING CONTRACTOR, EC - ELECTRICAL CONTRACTOR,  
MC - MECHANICAL CONTRACTOR, GC - GENERAL CONTRACTOR,  
FAS - FIRE ALARM SYSTEM CONTRACTOR, AHJ - AUTHORITY HAVING JURISDICTION.
- "PROVIDE" MEANS TO FURNISH AND INSTALL. THE ELECTRICAL CONTRACTOR SHALL ALSO INSTALL MATERIALS AND EQUIPMENT FURNISHED BY OTHERS AND THE GENERAL CONTRACTOR AS REQUIRED.
- EC SHALL PROVIDE LABOR, MATERIALS, EQUIPMENT, AND SERVICES NECESSARY AND REASONABLY INCIDENTAL TO INSURE A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. MINOR ITEMS, ACCESSORIES, AND DEVICES REASONABLY INFERRABLE AS NECESSARY FOR THE COMPLETION AND PROPER OPERATION OF ANY ELECTRICAL SYSTEM SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- WORKMANSHIP SHALL BE IN ACCORDANCE WITH NECA 1 "STANDARD PRACTICE FOR GOOD WORKMANSHIP IN ELECTRICAL CONTRACTING."
- ALL MATERIALS AND EQUIPMENT SHALL BE DELIVERED TO THE SITE AND UNLOADED BY THE ELECTRICAL CONTRACTOR AT AN APPROVED LOCATION. THE ELECTRICAL CONTRACTOR SHALL PROTECT ALL MATERIALS AND EQUIPMENT FROM BREAKEAGE, THEFT, AND THE ELEMENTS. ALL MATERIALS AND EQUIPMENT SHALL REMAIN THE PROPERTY OF THE ELECTRICAL CONTRACTOR UNTIL THE PROJECT HAS BEEN COMPLETED AND TURNED OVER TO THE OWNER.
- THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS NECESSARY FOR THE COMPLETION OF THE WORK UNDER THIS CONTRACT.
- DO NOT SCALE THESE DRAWINGS-REFER TO ARCHITECTURAL SHEETS FOR DIMENSIONS.
- TRADE NAMES AND MANUFACTURERS ARE SPECIFIED TO ESTABLISH A QUALITY STANDARD. SUBSTITUTIONS SHALL BE PERMITTED IF APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. ALL LISTED MODEL NUMBERS SHALL BE VERIFIED WITH THE MANUFACTURER FOR PROPER APPLICATION OF EQUIPMENT.
- THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO BECOME FAMILIAR WITH EXISTING CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL CONTACT THE ENGINEER TO RESOLVE ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THESE PLANS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OTHER TRADES PRIOR TO THE START OF CONSTRUCTION.
- GROUNDING AND BONDING SHALL BE PER NEC ARTICLE 250. THE RACEWAY SYSTEM SHALL NOT BE REIED UPON FOR GROUNDING CONTINUITY. A GREEN EQUIPMENT GROUNDING CONDUCTOR, SIZED PER NEC TABLE 250-122, SHALL BE RUN IN ALL POWER RACEWAYS. FOR NON-ISOLATED GROUND CIRCUITS PROVIDE ONE EQUIPMENT GROUNDING CONDUCTOR PER CONDUIT RUN. FOR ISOLATED GROUND CIRCUITS, PROVIDE ONE NEUTRAL AND ONE ISOLATED GROUND WIRE FOR EACH CIRCUIT; IN ADDITION, PROVIDE ONE EQUIPMENT GROUNDING CONDUCTOR PER CONDUIT RUN. MAIN BONDING JUMPERS AND SYSTEM BONDING JUMPERS SHALL BE INSTALLED IN ACCORDANCE WITH 250.28 OF THE NEC. FOR BUILDINGS OR STRUCTURES SUPPLIED BY FEEDERS OR BRANCH CIRCUITS, GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH 250.32. SEPARATELY DERIVED AC SYSTEMS SHALL BE GROUNDED IN ACCORDANCE WITH 250.30. RESISTANCE TO GROUND SHALL NOT EXCEED 25 OHMS. ADDITIONAL GROUNDING ELECTRODES SHALL BE INSTALLED PER 250.54 AS NECESSARY.
- THE ELECTRICAL CONTRACTOR SHALL ALSO COORDINATE WITH THE GENERAL CONTRACTOR REGARDING THE BONDING OF THE FOOTING REBAR, SO THAT IT WILL BE IN PLACE AND READY AT TIME OF FOOTING INSPECTION.
- ALL MATERIALS AND EQUIPMENT SHALL COMPLY WITH THE UNDERWRITERS' LABORATORIES, INC. STANDARDS OR HAVE UL APPROVAL, OR BEAR UL RE-EXAMINATION LISTING WHERE SUCH APPROVAL HAS BEEN ESTABLISHED FOR THE TYPE OF DEVICE IN QUESTION.
- CONDUCTORS, FUSES, CIRCUIT BREAKERS, AND DISCONNECT SWITCHES SHOWN ON THESE PLANS HAVE BEEN SIZED FOR THE SPECIFIED EQUIPMENT. BEFORE ORDERING ELECTRICAL EQUIPMENT, THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS ON THE SITE AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES SHOULD CONDUCTOR, CIRCUIT BREAKER, OR FUSE SIZES REQUIRE CHANGE.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR TO ENSURE THE FOLLOWING MATERIALS ARE RECEIVED DURING THE CONSTRUCTION PHASE OF THE PROJECT: LIGHT FIXTURES, INCLUDING PROPER DISPOSAL OF BALLASTS, FLUORESCENT LIGHT BULBS, AND TRANSFORMERS, WIRING AND ELECTRICAL EQUIPMENT, AND INSULATION. WASTE MATERIALS CONTAINING LEAD, ASBESTOS, PCBs (FLUORESCENT LAMP BALLASTS), OR OTHER HARMFUL SUBSTANCES SHALL BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH FEDERAL AND STATE LAWS AND REQUIREMENTS CONCERNING HAZARDOUS WASTE.
- ALL WORK SHALL CONFORM TO 2017 NATIONAL ELECTRIC CODE, 2018 STATE BUILDING CODE, AND ALL APPLICABLE LOCAL CODES.

MATERIALS:

- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES, RECEPTACLES, TERMINALS, ETC., UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS AND CONNECTIONS TO THE EQUIPMENT PROVIDED BY ALL SUPPLIERS, UNLESS NOTED OTHERWISE BY OTHER DISCIPLINES.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SERVICE ENTRANCE EQUIPMENT, SUB PANELS, AND OTHER ELECTRICAL DISTRIBUTION EQUIPMENT AS NECESSARY FOR A COMPLETE INSTALLATION. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH UTILITY REGARDING SERVICE AND METERING DETAILS. PRIOR TO ORDERING EQUIPMENT, THE ELECTRICAL CONTRACTOR SHALL OBTAIN THE AVAILABLE FAULT CURRENT OR TRANSFORMER SIZE AND IMPEDANCE FROM THE UTILITY AND CONTACT THE ENGINEER IF THE VALUE EXCEEDS THE EQUIPMENT SPECIFIED. PANEL BOARDS AND SWITCH BOARDS SHALL BE SQUARE D, OUTLET-HAMMER, SIEMENS, OR GE. BUSES SHALL BE COPPER UNLESS OTHERWISE APPROVED BY THE ENGINEER. RECESSED PANEL BOARDS SHALL BE INSTALLED FLUSH WITH THE WALL FINISH. METER BASES SHALL COMPLY WITH THE UTILITY'S SPECIFICATIONS AND SHALL BE MOUNTED AT A HEIGHT APPROVED BY THE UTILITY. ALL EQUIPMENT IDENTIFIED FOR SERVICE ENTRANCE USE SHALL BE SO LABELED AND UL LISTED FOR SUCH USE. ELECTRICAL CONTRACTOR SHALL INSTALL ALL ELECTRICAL EQUIPMENT WITH CLEARANCES PER NEC 110.26. ELECTRICAL CONTRACTOR SHALL PERMANENTLY LABEL EQUIPMENT PER NEC 110.24.
- ENCLOSED SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE BY SQUARE D, EATON, OR GE. ENCLOSED SWITCHES SHALL HAVE A HANDLE LOCKABLE IN THE OFF POSITION AND SHALL HAVE A HANDLE INTERLOCKED TO PREVENT OPENING THE FRONT COVER WHILE IN THE ON POSITION. ENCLOSED SWITCHES OF THE FUSIBLE TYPE SHALL BE FUSED IN ACCORDANCE WITH NAMEPLATE DATA WITH DUAL ELEMENT TYPE FUSES BY BUSSMAN, LITTELFUSE, OR MERSEN.
- CIRCUIT BREAKERS SHALL BE MOLDED-CASE, THERMAL-MAGNETIC TYPE WITH QUICK-WAKE, QUICK-BREAK MECHANISM, COMMON TRIP ON MULTI-POLE BREAKERS, AND UL LISTED FOR BOTH COPPER AND ALUMINUM CONDUCTORS. CIRCUIT BREAKERS IN PANELS SHALL BE SERIES RATED WITH THE MAIN BREAKER, FULLY RATED FOR THE SYSTEM, OR SERIES RATED WITH THE BREAKER FEEDING THE PANEL FROM THE FACTORY.
- ALL WIRE, CONNECTORS, TERMINALS, AND LOSS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. WHERE CONDUCTORS ARE RUN IN PARALLEL, LOSS SHALL BE LISTED FOR PARALLEL CONDUCTORS. PUSH WIRE CONNECTORS ARE NOT ALLOWED FOR BUILDING WIRE. PUSH CONNECTORS ARE ONLY ALLOWED, WHEN APPROVED, AS PART OF MANUFACTURED LISTED PRODUCTS. ALL WIRE SHALL BE INSTALLED IN CONDUIT UNLESS SPECIFICALLY NOTED OTHERWISE.
- THE INSULATION TYPE FOR INTERIOR WIRING SHALL BE DUAL RATED THHN/THWN OR XHHW. ALL WIRING INSTALLED BELOW GRADE OR IN MOIST OR WET LOCATIONS SHALL HAVE TYPE THHN OR XHHW INSULATION. INSULATION VOLTAGE RATING SHALL BE 600 VOLTS AND A MINIMUM TEMPERATURE RATING OF 75°C. CONDUCTORS SHALL BE SOLID OR STRANDED COPPER FOR #10 AWG AND #12 AWG, AND STRANDED COPPER FOR #8 AWG AND LARGER SIZES. ALL WIRING AND CABLE SHALL BE UL LISTED. ALL TERMINATIONS AND DEVICES SHALL BE RATED FOR USE WITH 75°C CONDUCTORS. FINAL CONNECTIONS TO ALL MOTORS AND EQUIPMENT SUBJECT TO VIBRATION OR MOVEMENT SHALL BE MADE WITH STRANDED COPPER CONDUCTORS. CONDUCTORS SHALL BE BY CERRO WIRE, INC., INDUSTRIAL WIRE & CABLE, INC., ENCORE WIRE CORPORATION, OR SOUTHWIRE COMPANY.
- JOINTS IN SOLID CONDUCTORS SHALL BE SPLICED USING IDEAL "WIRE NUTS", JM "SCOTCH LOCK", OR TAB "PIGGY" CONNECTORS IN JUNCTION BOXES, OUTLET BOXES, AND LIGHTING FIXTURES. JOINTS IN STRANDED CONDUCTORS SHALL BE SPLICED BY APPROVED MECHANICAL CONNECTORS AND GUM RUBBER TAPE OR FRICTION TAPE. SOLDERLESS MECHANICAL CONNECTORS FOR SPLICES AND TAPS, PROVIDED WITH UL APPROVED INSULATING COVERS, MAY BE USED INSTEAD OF MECHANICAL CONNECTORS PLUS TAPE. IN ALL CASES, CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND NO SPLICING SHALL BE MADE EXCEPT WITHIN OUTLET OR JUNCTION BOXES, TROUGHS, OR CUTTERS. WHERE CONCENTRIC, ECCENTRIC, OR OVERSIZED KNOCKOUTS ARE ENCOUNTERED, A GROUNDING TYPE INSULATED BUSHING SHALL BE PROVIDED. ALL LUMINAIRES SHALL BE LISTED. LUMINAIRES IN WET OR DAMP LOCATIONS SHALL BE MARKED AS SUITABLE FOR THE RESPECTIVE USE. EMERGENCY LIGHTING SHALL BE INSTALLED AS SHOWN. FINAL LOCATIONS OF ALL EXIT AND EMERGENCY LIGHTS SHALL BE VERIFIED WITH THE BUILDING INSPECTOR PRIOR TO INSTALLATION. ALL FLUORESCENT FIXTURES SHALL

- HAVE ELECTRONIC BALLASTS MEETING ANSI C82.11 FOR ELECTRONIC BALLAST PERFORMANCE. ALL BALLASTS SHALL BE UL LISTED AND MEET FEDERAL AND STATE EFFICIENCY REQUIREMENTS.
- ALL CONDUIT, FITTINGS, COUPLINGS, AND SUPPORTS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. CONDUIT FITTINGS AND COUPLINGS SHALL BE BY APPLETON, RACO, OR Q-Z/GENEY. COUPLINGS SHALL BE THREADED, SET-SCREW, OR COMPRESSION TYPE. INDENTED OR CRIMP TYPE ARE NOT PERMITTED. CONDUIT FITTINGS AT ALL ELECTRICAL BOXES INCLUDING PULL, JUNCTION, AND OUTLET BOXES, SHALL HAVE INSULATED THROATS TO PREVENT INSULATION SCORING. THE CAST FITTINGS ARE NOT PERMITTED.
  - EMT SHALL BE MANUFACTURED IN ACCORDANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE-AMERICAN NATIONAL STANDARD FOR STEEL ELECTRICAL METALLIC TUBING (EMT), ANSI C80.3 AND UL 797. RIGID METAL CONDUIT SHALL BE MANUFACTURED IN ACCORDANCE WITH ANSI-AMERICAN NATIONAL STANDARD FOR ELECTRICAL RIGID STEEL CONDUIT (ERSC), ANSI C80.1 AND UL 6. INTERMEDIATE METAL CONDUIT SHALL BE MANUFACTURED IN ACCORDANCE WITH ANSI-AMERICAN NATIONAL STANDARD FOR INTERMEDIATE METAL CONDUIT ANSI C200.6 AND UL 1242.
  - METAL CONDUIT SHALL BE BY ALLED TUBING & CONDUIT, BECK MANUFACTURING, INC. OR WHEATLAND TUBE COMPANY. FLEXIBLE METAL CONDUIT, LIQUID-TIGHT FLEXIBLE METAL CONDUIT, AND NONMETALLIC CONDUIT SHALL BE BY AFC CABLE SYSTEMS, INC., ELECTRI-FLEX COMPANY, OR INTERNATIONAL METAL HOSE.

METHODS:

- EC SHALL REVIEW THE MECHANICAL PLANS TO ESTABLISH POINTS OF CONNECTION AND THE EXTENT OF THE ELECTRICAL WORK TO BE PROVIDED IN THE CONTRACT. ALL CIRCUIT BREAKERS FEEDING HVAC EQUIPMENT SHALL BE HVAC BREAKERS. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE MINIMUM #12 AWG IN 3/4" IN CONDUIT. EACH MULTI-WIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE SOURCE PER NEC 210.4(B). GROUP ALL CONDUCTORS OF EACH MULTI-WIRE BRANCH CIRCUIT PER 210.4(D) WITH WIRE TIES OR SIMILAR MEANS. DO NOT EXCEED THREE HOMERUNS PER CONDUIT. DO NOT INSTALL ISOLATED GROUND AND NON-ISOLATED GROUND CIRCUITS IN THE SAME CONDUIT. INSTALL CONDUCTORS OF DIFFERENT VOLTAGES IN SEPARATE CONDUITS.
- COLOR CODE CONDUCTORS PER NEC. FEEDERS SHALL BE IDENTIFIED IN ACCORDANCE WITH NEC 215.12. USE BLACK, RED, AND BLUE FOR PHASES A, B, AND C RESPECTIVELY ON 208Y/120 VOLT THREE-PHASE Y SYSTEMS AND WHITE FOR THE NEUTRAL. ISOLATED GROUND WIRES SHALL BE GREEN WITH YELLOW BANDS OR STRIPES. THIS IDENTIFICATION SHALL BE MADE AT EACH POINT WHERE A CONNECTION IS MADE. COLORS SHALL BE FACTORY APPLIED FOR CONDUCTORS #6 AWG AND SMALLER. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE GREEN IN COLOR AND MINIMUM #12 AWG. THE EC SHALL PROVIDE PLENUM RATED CABLE FOR ANY ELECTRICAL, TELEPHONE, COMMUNICATION, OR OTHER CABLE THAT ENTERS CEILING RETURN PLENUMS.
- ALL LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE SUSPENDED CEILING. COORDINATE LIGHTING LAYOUT WITH CEILING GRID, MECHANICAL EQUIPMENT, DUCTWORK AND SPRINKLER HEADS AS NECESSARY. SEE REFLECTED CEILING PLAN FOR DETAILS. FLUORESCENT FIXTURES UTILIZING DOUBLE-ENDED LAMPS MUST HAVE A DISCONNECT MEANS COMPLYING WITH NEC 410.130(G).
- MOUNT LIGHT SWITCHES AT 48" IN AFF. MULTIPLE SWITCHES AT SAME LOCATION SHALL BE UNDER ONE WALL PLATE. VERIFY WALL PLATE COLOR AND MATERIAL WITH THE ARCHITECT/OWNER. INSTALL SWITCHES WITH OFF POSITION DOWN. ALL SWITCHES SHALL BE HEAVY DUTY, NYLON PLASTIC WITH TOGGLE HANDLE, RATED 120-277V AC, AND COMPLYING WITH NEMA WD 6 AND WD 1. SWITCHES SHALL BE BY COOPER WIRING DEVICES, LEVITON MANUFACTURING, PASS & SEYMOUR, OR HUBBELL. PROVIDE BOX DECK, PARTITION/DOORS FOR MULTI-GANG BOXES FOR COMPLIANCE WITH NEC 404.8(B).
- ELECTRICAL CONTRACTOR SHALL PROVIDE FIRE-STOPPING AT ALL ELECTRICAL PENETRATIONS OF RATED FLOORS AND WALLS TO PRESERVE OR RESTORE THE FIRE-RESISTANCE RATING. SEAL PENETRATIONS USING A UL LISTED SYSTEM FOUND IN THE UL DIRECTORY SPECIFIC TO THE UL LISTING OF THE ASSEMBLY BEING PENETRATED. SEE ARCHITECTURAL PLANS FOR UL RATED ASSEMBLIES SPECIFIC TO THIS PROJECT.
- LOCATIONS AND HEIGHTS OF ALL WALL-MOUNTED DEVICES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION.
- CONCEAL ALL CONDUIT EXCEPT IN MECHANICAL ROOMS OR UNFINISHED AREAS AS NOTED. USE EMT CONDUIT FOR ALL BRANCH CIRCUITS AND FEEDERS INSIDE THE BUILDING. TYPE MC CABLE AND TYPE AC CABLE MAY BE INSTALLED WITHIN WALLS IF ALL NEUTRAL WIRES, ISOLATED GROUND WIRES, AND EQUIPMENT GROUND WIRES AS LISTED ABOVE ARE CONTAINED IN THE CABLE. FLEXIBLE CONNECTIONS TO MOTORS AND OTHER EQUIPMENT SHALL BE MADE USING WEATHERPROOF FLEXIBLE CONDUIT. FOR LAY-IN LIGHT FIXTURES, USE MAXIMUM OF SIX (6) FEET OF FLEXIBLE MC CABLE (OR THE FLEXIBLE CONDUIT PROVIDED BY THE FIXTURE MANUFACTURER). SCHEDULE 40 PVC CONDUIT MAY BE USED FOR THE SECONDARY UNDERGROUND SERVICE. UNDERGROUND TELEPHONE SERVICE, AND BRANCH AND FEEDER CIRCUITS UNDER SLAB OR EXTERIOR TO THE BUILDING. EXPOSED EXTERIOR CONDUIT SHALL BE SCHEDULE 80 PVC. ALL UNDERGROUND RACEWAYS SHALL BE IDENTIFIED WITH UNDERGROUND LINE MARKING TAPE 6-8" IN BELOW GRADE DIRECTLY ABOVE THE RACEWAY. PROVIDE PULL WIRE IN EMPTY CONDUITS. UPSIZE CONDUIT FROM MINIMUM SIZE AS NECESSARY FOR LONGER PULLS. UNDERGROUND RACEWAYS THAT STUB INTO THE BOTTOM OF SWITCHBOARDS, OUTDOOR TRANSFORMERS, GENERATORS, ETC., SHALL RISE AT LEAST 2" IN ABOVE THE FINISHED SLAB TO PREVENT WATER FROM DRAINING INTO THE RACEWAYS. RACEWAYS THAT PENETRATE EXTERIOR WALLS OR INTERIOR PARTITIONS SEPARATING SPACES THAT WILL BE AT SIGNIFICANTLY DIFFERENT TEMPERATURES SHALL BE SEALED IN ACCORDANCE WITH 300.5(C), 300.7(A), AND 300.50(E) OF THE NEC. ROUTE CONDUIT IN AND UNDER SLAB FROM POINT-TO-POINT. ROUTE EXPOSED CONDUIT AND CONDUIT INSTALLED ABOVE ACCESSIBLE CEILINGS PARALLEL AND PERPENDICULAR TO WALLS. COMPLETELY AND THOROUGHLY SLAG ALL RACEWAYS BEFORE INSTALLING WIRE. PULL ALL CONDUCTORS INTO EACH RACEWAY AT ONE TIME. USE A SUITABLE WIRE PULLING LUBRICANT FOR BUILDING WIRE #4 AWG AND LARGER.
- CABLES, RACEWAYS, OR BOXES, INSTALLED IN EXPOSED OR CONCEALED LOCATIONS UNDER METAL-CORRUGATED SHEET ROOF DECKING, SHALL BE INSTALLED AND SUPPORTED SO THERE IS NOT LESS THAN 1-1/2" IN MEASURED FROM THE LOWEST SURFACE OF THE ROOF DECKING TO THE TOP OF THE CABLE, RACEWAY, OR BOX. A CABLE, RACEWAY, OR BOX SHALL NOT BE INSTALLED IN CONCEALED LOCATIONS IN METAL-CORRUGATED, SHEET DECKING-TYPE ROOF. SEE NEC 300.4(E).
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL OUTLET, JUNCTION, PULL BOXES, FITTINGS, AND SUPPORTS. ALL OUTLET AND JUNCTION BOXES SHALL BE GALVANIZED STEEL TYPE BY APPLETON, STEEL CITY, OR RACO. EXTERIOR BOXES SHALL BE TYPE FS. VAPORITE BOXES SHALL BE TYPE GS. WHERE SURFACE MOUNTED BOXES ARE USED, THOSE BOXES AND THEIR FACEPLATES SHALL HAVE ROUNDED CORNERS. BOXES INSTALLED IN FLOORS SHALL BE RATED FOR THE APPLICATION. MOUNT JUNCTION AND OUTLET BOXES FLUSH WITH FINISH SURFACES UNLESS OTHERWISE NOTED. WHERE MOUNTING HEIGHTS ARE GIVEN, THEY SHALL BE MEASURED FROM THE FINISHED FLOOR TO THE CENTER OF THE BOX. ALL BOXES SHALL BE SIZED PER NEC ARTICLE 314. ALL OUTLET AND JUNCTION BOXES SHALL HAVE A COVER PLATE, PROVIDED BY THE ELECTRICAL CONTRACTOR. OUTLET BOXES IN RATED WALLS SHALL BE INSTALLED IN ACCORDANCE WITH VIRGINIA CONSTRUCTION CODE 714.3.2 (MAXIMUM BOX SIZE IS 16 SQUARE IN AND MAXIMUM OF SIX (6) BOXES PER 100 SQUARE FEET). INSTALL OUTLET BOXES IN RATED WALLS SUCH THAT OPENINGS OCCUR IN ONE SIDE ONLY WITHIN ANY GIVEN STUD SPACE. ALL CLEARANCES BETWEEN THE OUTLET BOX AND THE GYPSUM BOARD SHALL BE FILLED WITH JOINT COMPOUND OR OTHER APPROVED FIRE STOP MATERIAL. FLUSH MOUNTED JUNCTION BOXES IN ADJACENT ROOMS SHALL NOT BE MOUNTED BACK-TO-BACK. SURFACE MOUNTED FIXTURES SHALL BE FED THROUGH FLUSH MOUNTED 4X4 OCTAGONAL OR SQUARE BOXES.
- ALL CONDUIT, BOXES, AND ELECTRICAL EQUIPMENT SHALL BE FIRMLY AND SECURELY FASTENED TO OR SUPPORTED FROM THE BUILDING STRUCTURAL MEMBERS OR EMBEDDED IN CONCRETE OR MASONRY. ELECTRICAL SUPPORTS SHALL NOT BE ATTACHED TO DUCTWORK, PIPING, OR THEIR SUPPORTS. HANGERS SHALL BE CATALOG ITEMS COMPATIBLE WITH AND SUITABLE FOR THE INTENDED USE. FOR METAL ROOF DECK INSTALLATIONS, 1" IN EMT CONDUIT MAXIMUM AND 4" IN JUNCTION BOXES MAXIMUM MAY BE SUPPORTED BY DECKING. THE SUSPENDED CEILING SYSTEM SHALL NOT BE USED FOR THE SUPPORT OF ELECTRICAL RACEWAY SYSTEMS OR SUPPORT OF COMMUNICATIONS OR DATA SYSTEMS WIRING. CONTRACTOR SHALL COMPLY WITH 1613 OF THE VIRGINIA GENERAL CONSTRUCTION BUILDING CODE.
- WHERE CONDUCTORS ARE RUN IN PARALLEL, THE EC SHALL COMPLY WITH NEC 310.10(H).
- PROVIDE AN UNDERGROUND PVC CONDUIT SYSTEM FOR TELEPHONE SERVICE WITH PULL WIRES. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH TELEPHONE UTILITY REGARDING ADDITIONAL FACILITIES REQUIRED FOR THE SERVICE INSTALLATION.
- ELECTRICAL CONTRACTOR SHALL FIELD IDENTIFY ALL SWITCH BOARD, PANEL BOARDS, CONTROL PANELS, METER SOCKETS, ETC., TO TRAIN QUALIFIED PERSONS OF POTENTIAL ELECTRICAL AND FLASH HAZARDS PER 110.16 OF NEC.
- ELECTRICAL CONTRACTOR SHALL PROVIDE NAMEPLATES FOR IDENTIFICATION OF ALL EQUIPMENT, SWITCHES, PANELS, ETC. THE NAMEPLATES SHALL BE LAMINATED PHENOLIC PLASTIC, BLACK FRONT, AND BACK WITH WHITE CORE, WHITE ENGRAVED LETTERS (1/4" IN MINIMUM) ETCHED INTO THE WHITE CORE. ELECTRICAL CONTRACTOR SHALL PROVIDE A TYPE WRITTEN DIRECTORY CARD THAT ACCURATELY IDENTIFIES CIRCUITS INSIDE EACH PANEL. HANDWRITTEN LABELS ARE NOT ACCEPTABLE.

SITE LIGHTING NOTES

2

2

ADDED LIGHTING  
DESIGN BY OTHERS

Town Certification. This design has been reviewed by the Engineer for the Town of Knightdale, and to the best of my knowledge and belief, it conforms to the requirements established in the Standard Specifications of the Town of Knightdale.

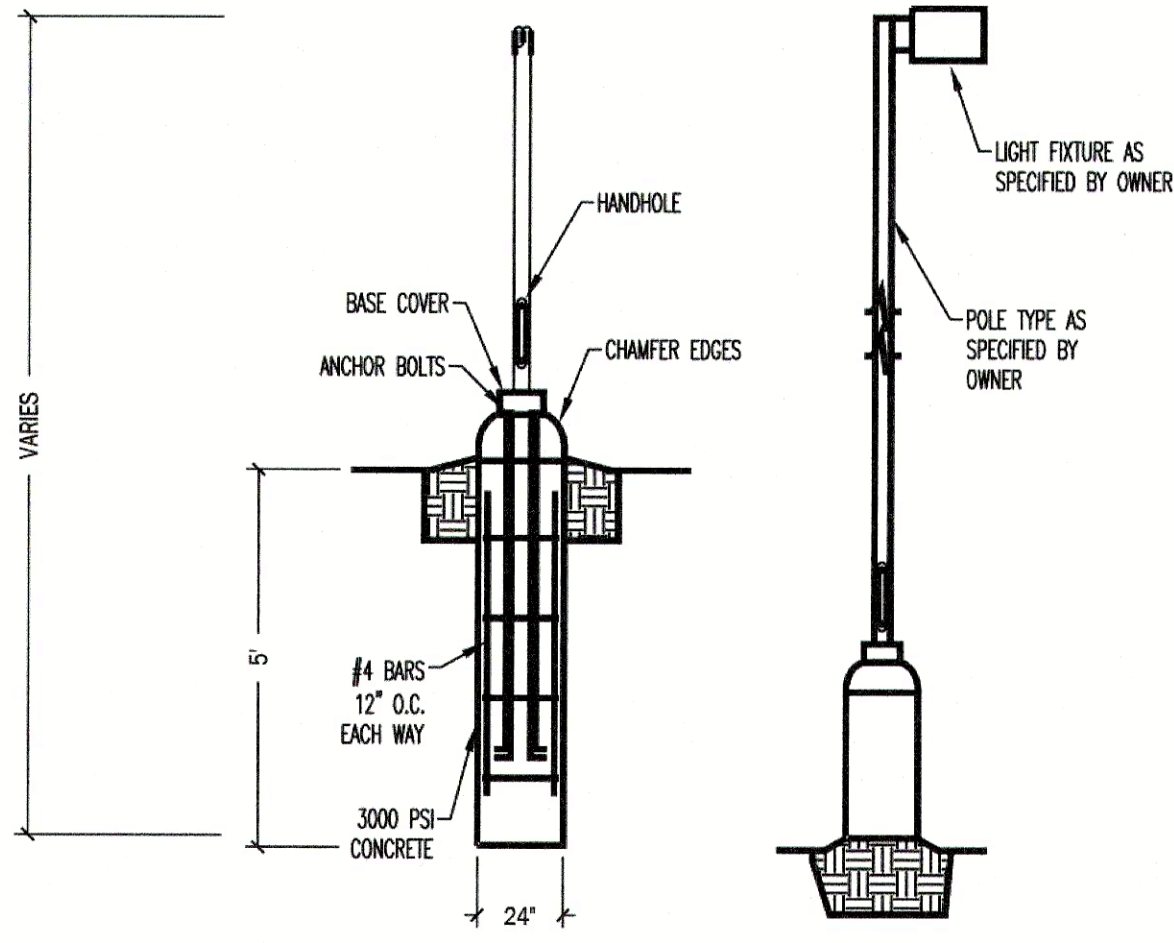
By: \_\_\_\_\_ Date: \_\_\_\_\_  
Town Engineer

These plans are approved by the Town of Knightdale and serve as construction plans for this project.

By: \_\_\_\_\_ Date: \_\_\_\_\_  
Administrator

LIGHTING DETAILS			
Engineers	PROJECT No. 2023008	SHEET No.	
Planners	DRAWING No. W-4073-MP		
Surveyors	SCALE AS NOTED		
Landscape Architects	DATE MAY 22, 2024		

SL1.01



GENERIC POLE BASE DETAIL - NO SCALE

3

SITE LIGHTING SCHEDULES

1

AMPLE STORAGE - EXPANSION  
SITE LIGHTING

REVISION:

NO.	DATE	DESCRIPTION
1	06/20/2024	ISSUED FOR PERMIT

ISSUED:

1	06/20/2024	ISSUED FOR PERMIT
---	------------	-------------------

DRAWN BY: EAC  
CHECKED BY: MMW/CRL  
SITE LIGHTING  
NOTES AND SCHEDULES  
SHEET NO.

SL1

PROJECT NO.: 240414

Kilian Engineering, Inc.

PO Box 3301, Henderson, NC 27536 | www.kilianengineering.com  
(P) 252.438.8778 | CORPORATE LICENSE C-2277









## Conditional Rezoning Neighborhood Meeting Ample Storage Expansion

Meeting Date: April 11, 2024

Meeting Time: 6:00 PM

Meeting Location: 1107 Great Falls Ct, Knightdale, NC 27545

Application type: Conditional District Rezoning

Approving Authority: Town Council Legislative Approval

Property Request Address: 1107 Great Falls Ct

PIN: 1744868623

Description of proposal: Conditional District Rezoning – Mini-Warehouse

Estimated Submittal Date: May 21, 2024.

### Attendees:

Gideon Smith – Town of Knightdale

Terry Wethington – Lampe Management (Owner / Applicant)

Jeff Inman - Lampe Management

Matt Prokop – Rivers & Associates (Engineer)

Neighborhood meeting was held at the site location 1107 Great Falls Ct. Attendees gathered at approximately 5:30 pm to await the arrival of any invited property owners. Applicant communicated that the most affected party (Wake Stone Corporation) had viewed the plans and gave verbal approval.

Various other aspects of the review process were discussed between the applicant and the Town, including requests for a variance on the building plan and the possibility of a traffic impact analysis. The potential long-term damage from the nearby blasting activities on any brick façade was discussed. Applicant stated they could provide previous studies indicating the lack of a need for any additional TIA.

Attendees waited at the meeting site until approximately 7:00 pm before concluding that no member of the public was going to attend. Meeting was adjourned at approximately 7:00 pm.



ENGINEERS

PLANNERS

SURVEYORS

LANDSCAPE ARCHITECTS

April 1, 2024

RCP Investments IV, LLC  
307 Berkley Woods Dr  
Ashland, VA 23005-1253

Re: Ample Storage Expansion

Dear RCP Investments IV, LLC:

You are invited to a neighborhood meeting to learn more about the proposed Ample Storage Expansion, located at 1107 Great Falls Ct. This development will be an expansion of the existing Ample Storage located along Knightdale Blvd. You are receiving this letter as an adjacent property owner and are invited to provide input at a neighborhood meeting pertaining to the project.

A Neighborhood Meeting is required by the Town of Knightdale Unified Development Ordinance and all property owners within 200 feet of the proposed development must receive notification of the meeting. The meeting will be an opportunity for residents and property owners to learn more about the project and provide feedback.

Meeting Date: April 11, 2024

Meeting Time: 6:00 PM

Meeting Location: 1107 Great Falls Ct, Knightdale, NC 27545

Application type: Conditional District Rezoning

Approving Authority: Town Council Legislative Approval

Property Request Address: 1107 Great Falls Ct

PIN: 1744868623

Description of proposal: Conditional District Rezoning – Mini-Warehouse

Estimated Submittal Date: April 22, 2024.

Enclosed is a map showing the location of the property being considered for this proposal.

Additional materials and information may be available at the meeting. \*Please see the Development Services 2022 Meeting & Submittal Schedule

([https://www.knightdalenc.gov/sites/default/files/uploads/DevelopmentServices/submittal\\_and\\_meeting\\_schedule\\_2022.pdf](https://www.knightdalenc.gov/sites/default/files/uploads/DevelopmentServices/submittal_and_meeting_schedule_2022.pdf)) for future public meetings dates.

If you have any questions, comments, or concerns about the proposal prior to the meeting, you may contact the applicant via Matt Prokop, 107 E 2<sup>nd</sup> St, Greenville, NC 27858, (252) 752-4135 [mprokop@riversandassociates.com](mailto:mprokop@riversandassociates.com)

These will be recorded as part of the meeting summary, which is submitted to Town staff and elected officials. You may also contact Gideon Smit, Town of Knightdale Development Services Department, (919) 217-2245.





ENGINEERS

PLANNERS

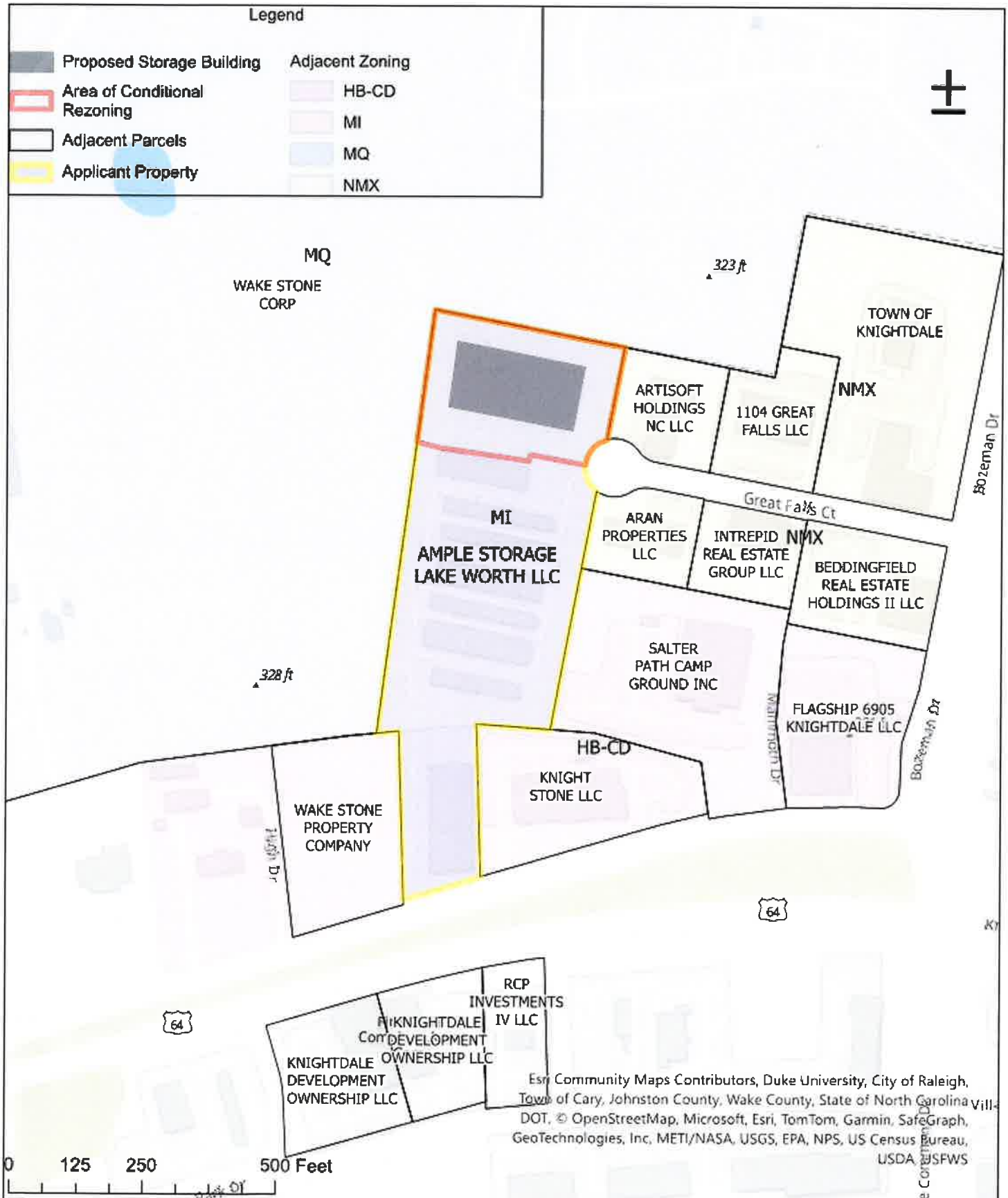
SURVEYORS

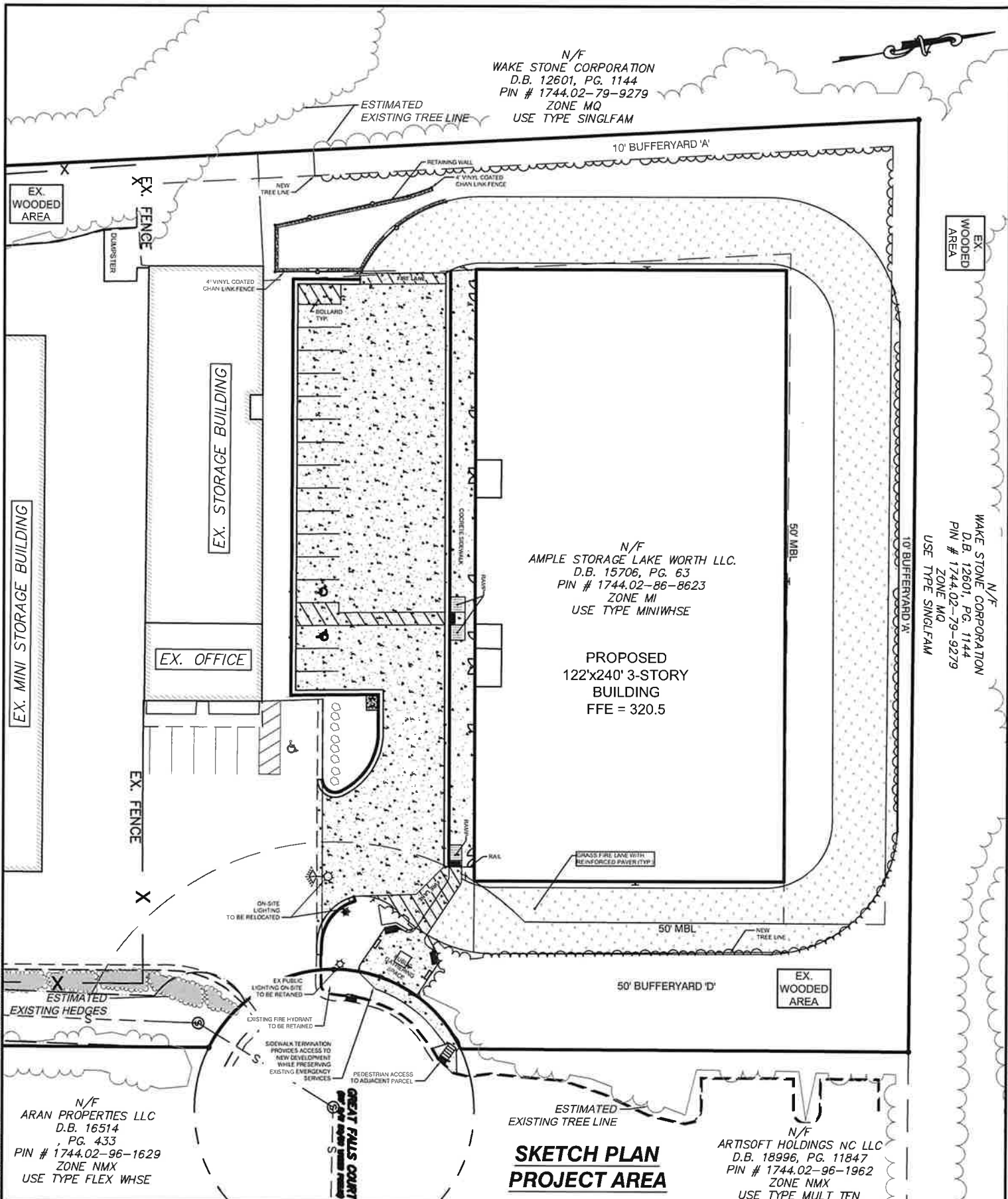
LANDSCAPE ARCHITECTS

### Project Contact Information

Project Name: Ample Storage Expansion Proposed Zoning: MI - CD  
Location: 1107 Great Falls Ct, Knighdale, NC 27545  
Property PIN(s): 1744868623 Acreage/Square Feet: 29,280 sf  
Property Owner: Ample Storage Lake Worth, LLC  
Address: PO Box 608  
City: Smithfield State: NC Zip: 27577-0608  
Phone: 252-670-2664 Email: [terryw@lampemanagement.com](mailto:terryw@lampemanagement.com)  
Developer: Ample Storage Lake Worth, LLC  
Address: PO Box 608  
City: Smithfield State: NC Zip: 27577-0608  
Engineer: Rivers & Associates, Inc.  
Address: 107 E. 2<sup>nd</sup> St  
City: Greenville State: NC Zip: 27858  
Builder: Ample Storage Lake Worth, LLC  
Address: PO Box 608  
City: Smithfield State: NC Zip: 27577-0608

# Ample Storage Expansion





N/F  
WAKE STONE CORPORATION  
D.B. 12601, PG. 1144  
PIN # 1744.02-79-9279  
ZONE MQ  
USE TYPE SINGLFAM

N/F  
AMPLE STORAGE LAKE WORTH LLC.  
D.B. 15706, PG. 63  
PIN # 1744.02-86-8623  
ZONE MI  
USE TYPE MINIWHSE

PROPOSED  
122'x240' 3-STORY  
BUILDING  
FFE = 320.5

N/F  
WAKE STONE CORPORATION  
D.B. 12601, PG. 1144  
PIN # 1744.02-79-9279  
ZONE MQ  
USE TYPE SINGLFAM

N/F  
ARAN PROPERTIES LLC  
D.B. 16514  
PG. 433  
PIN # 1744.02-96-1629  
ZONE NMX  
USE TYPE FLEX WHSE

N/F  
ARTISOFT HOLDINGS NC LLC  
D.B. 18996, PG. 11847  
PIN # 1744.02-96-1962  
ZONE NMX  
USE TYPE MULT TEN

### SKETCH PLAN PROJECT AREA

**Engineers  
Planners  
Surveyors**  
Landscape Architects

**Rivers**  
& ASSOCIATES, INC.  
Since 1918  
riversandassociates.com

Six Forks Place III  
Suite 230  
353 E. Six Forks Road  
Raleigh, NC 76609  
(919) 594-1626

### LAMPE MANAGEMENT COMPANY AMPLE STORAGE - EXPANSION

TOWN OF KNIGHTDALE ~ ST. MATTHEWS TWSP, ~ WAKE CO., ~ NORTH CAROLINA

DESIGNED BY:	MJP	PROJECT No.	2023008
DRAWN BY:	EDN	DRAWING No.	W-4073-SK
CHECKED BY:	JSJ	SCALE	1"=50'
		DATE	APRIL 1, 2024

SHEET No.  
**1**



Town of Knightdale | 950 Steeple Square Ct. | Knightdale, NC 27545  
KnightdaleNC.gov | 919-217-2241

### NEIGHBORHOOD MEETING ATTENDANCE SHEET

Please list Neighborhood Meeting Attendees who provided their name and/or contact information either during the meeting or via phone/email before or after the meeting. Use duplicate sheets if needed.

	Name/Organization	Address	Phone Number	Email Address	Follow Up Requested?
1.					
2.	NONE IN ATTENDANCE				
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					