

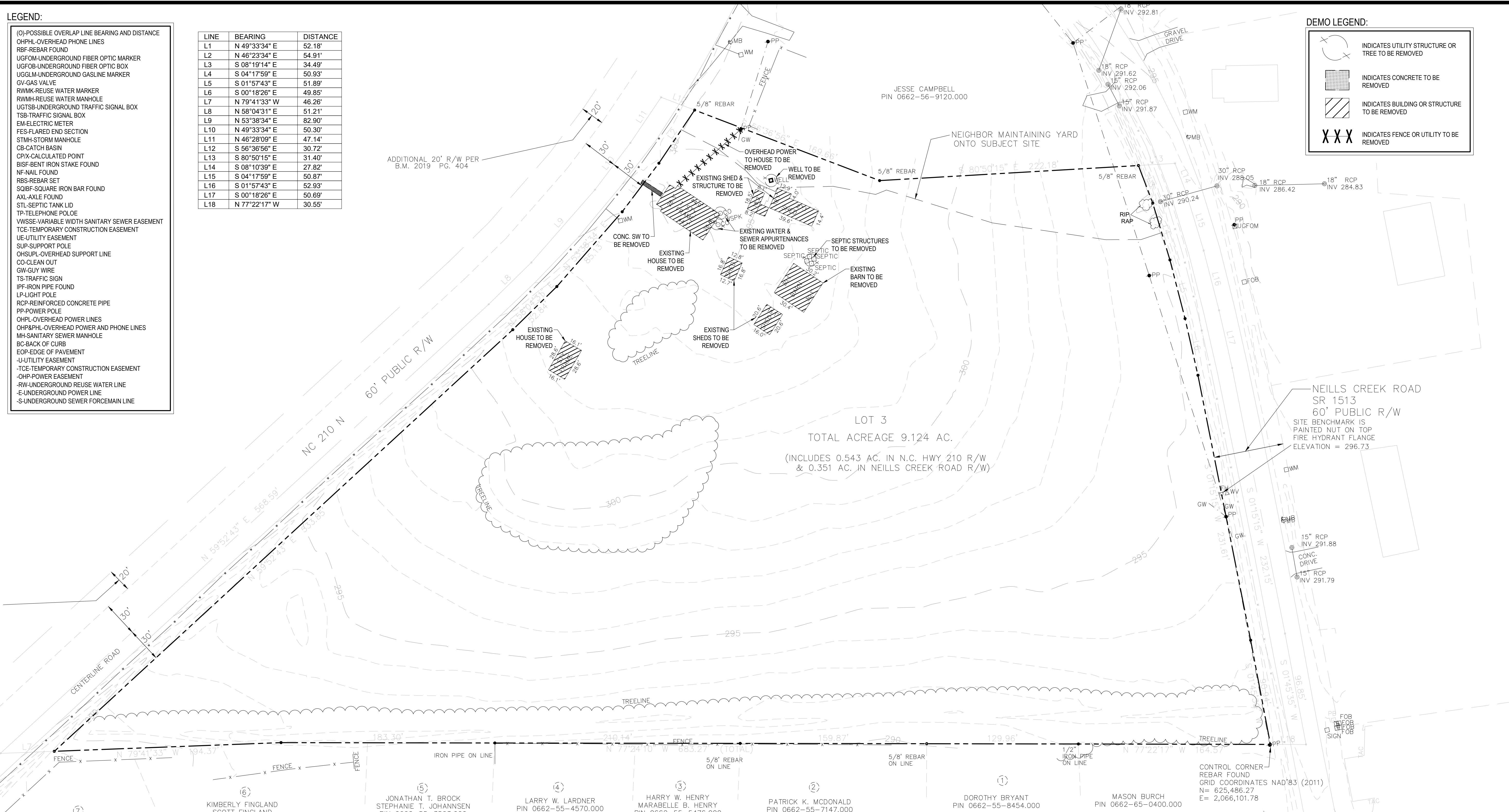
LEGEND:

- (O)-POSSIBLE OVERLAP LINE BEARING AND DISTANCE
- OHPL-OVERHEAD PHONE LINES
- RFB-REBAR FOUND
- UGFOM-UNDERGROUND FIBER OPTIC MARKER
- UGFOB-UNDERGROUND FIBER OPTIC BOX
- UGGLM-UNDERGROUND GASLINE MARKER
- GV-GAS VALVE
- RWMK-REUSE WATER MARKER
- RWMH-REUSE WATER MANHOLE
- UGTSB-UNDERGROUND TRAFFIC SIGNAL BOX
- TSB-TRAFFIC SIGNAL BOX
- EM-ELECTRIC METER
- FES-FLARED END SECTION
- STMH-STORM MANHOLE
- CB-CATCH BASIN
- CPX-CALCULATED POINT
- BISF-BENT IRON STAKE FOUND
- NF-NAIL FOUND
- RBS-REBAR SET
- SOIBF-SQUARE IRON BAR FOUND
- AXL-AXLE FOUND
- STL-SEPTIC TANK LID
- TP-TELEPHONE POLOE
- VWSSE-VARIABLE WIDTH SANITARY SEWER EASEMENT
- TCE-TEMPORARY CONSTRUCTION EASEMENT
- UE-UTILITY EASEMENT
- SUP-SUPPORT POLE
- OHSUPL-OVERHEAD SUPPORT LINE
- CO-CLEAN OUT
- GW-GUY WIRE
- TS-TRAFFIC SIGN
- IPF-IRON PIPE FOUND
- LP-LIGHT POLE
- RCP-REINFORCED CONCRETE PIPE
- PP-POWER POLE
- OHPL-OVERHEAD POWER LINES
- OHPPH-OVERHEAD POWER AND PHONE LINES
- MH-SANITARY SEWER MANHOLE
- BC-BACK OF CURB
- EOP-EDGE OF PAVEMENT
- U-UTILITY EASEMENT
- TCE-TEMPORARY CONSTRUCTION EASEMENT
- OHP-POWER EASEMENT
- RW-UNDERGROUND REUSE WATER LINE
- E-UNDERGROUND POWER LINE
- S-UNDERGROUND SEWER FORCEMAIN LINE

LINE	BEARING	DISTANCE
L1	N 49°33'34" E	52.18'
L2	N 46°23'34" E	54.91'
L3	S 08°19'14" E	34.49'
L4	S 04°17'59" E	50.93'
L5	S 01°57'43" E	51.89'
L6	S 00°18'26" E	49.85'
L7	N 79°41'33" W	46.26'
L8	N 58°04'31" E	51.21'
L9	N 53°38'34" E	82.90'
L10	N 49°33'34" E	50.30'
L11	N 46°28'09" E	47.14'
L12	S 56°36'56" E	30.72'
L13	S 80°50'15" E	31.40'
L14	S 08°10'39" E	27.82'
L15	S 04°17'59" E	50.87'
L16	S 01°57'43" E	52.93'
L17	S 00°18'26" E	50.69'
L18	N 77°22'17" W	30.55'

DEMO LEGEND:

- INDICATES UTILITY STRUCTURE OR TREE TO BE REMOVED
- INDICATES CONCRETE TO BE REMOVED
- INDICATES BUILDING OR STRUCTURE TO BE REMOVED
- INDICATES FENCE OR UTILITY TO BE REMOVED



LOT 3
TOTAL ACREAGE 9.124 AC.
(INCLUDES 0.543 AC. IN N.C. HWY 210 R/W & 0.351 AC. IN NEILLS CREEK ROAD R/W)

CONTROL CORNER
REBAR FOUND
GRID COORDINATES NAD'83 (2011)
N= 625,486.27
E= 2,066,101.78

DEMO NOTES:

1. ANY ITEM THAT MAY BE ENCOUNTERED DURING BUILDING DEMOLITION THAT MAY BE OF INTEREST OR VALUE TO THE OWNER SHALL REMAIN THE OWNER'S PROPERTY. COORDINATE PROCEDURE FOR REMOVAL AND SALVAGE WITH OWNER.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING PRE-DEMOLITION PHOTOGRAPHS AND/OR VIDEOTAPE SHOWING EXISTING CONDITIONS OF ADJOINING CONSTRUCTION AND SITE IMPROVEMENTS PRIOR TO ANY DEMOLITION WORK.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH GOVERNING EPA REGULATIONS AND HAULING AND DISPOSAL REGULATIONS OF LOCAL JURISDICTION, INCLUDING OBTAINING ALL REQUIRED PERMITS.
4. CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER IN THE EVENT THAT UN-ANTICIPATED HAZARDOUS MATERIALS ARE ENCOUNTERED. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS AND REGULATIONS REGARDING THE HANDLING AND DISPOSAL OF HAZARDOUS MATERIALS.
5. CONTRACTOR RESPONSIBLE FOR LOCATING, IDENTIFYING, DISCONNECTING, AND SEALING OR CAPPING UTILITIES SERVING BUILDINGS AND STRUCTURES TO BE DEMOLISHED.
6. UNLESS OTHERWISE NOTED ON DRAWINGS, DEMOLITION SHALL INCLUDE REMOVAL OF EXISTING OBJECTS OR IMPROVEMENTS (WITH THE EXCEPTION OF TREES) THAT WOULD INTERFERE WITH PROGRESS OR COMPLETION OF PROPOSED WORK.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL DURING DEMOLITION.
8. CONTRACTOR SHALL NOTIFY OWNER AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF DEMOLITION ACTIVITIES.
9. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTION TO ENSURE THAT UTILITY SERVICES OF ADJOINING PROPERTIES ARE NOT DISTURBED DURING SITE DEMOLITION.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL OFFSITE IMPROVEMENTS DURING DEMOLITION AND COORDINATING RELOCATION OF ANY UTILITY SERVICES DISRUPTED BY DEMOLITION ACTIVITIES.
11. PAVEMENT REMOVAL INCLUDES THE REMOVAL OF ANY ASSOCIATED BASE COURSE AND CURBING.
12. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES BEFORE COMMENCING DEMOLITION ACTIVITIES.
13. CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER SHOULD ANY DISCREPANCIES OR CONFLICTS ARISE.
14. REMOVE ALL EXISTING STRUCTURES INCLUDING FOUNDATIONS.
15. REMOVE ALL ITEMS SHOWN ON EXISTING CONDITIONS PLAN AS NEEDED FOR INSTALLATION OF NEW WORK.
16. NO EQUIPMENT IS ALLOWED ON THE SITE UNTIL ALL TREE PROTECTION AND SILT FENCING HAS BEEN INSTALLED AND APPROVED.
17. CONTRACTOR SHALL CONTACT PUBLIC UTILITIES ADMINISTRATION DIVISION PRIOR TO ANY DEMOLITION TO INSURE EXISTING WATER AND SANITARY SEWER DISCONNECTS ARE HANDLED ACCORDING TO CITY GUIDELINES. SEE COVER FOR CONTACT INFO.
18. SEE SITE UTILITY PLAN & GRADING/DRAINAGE PLAN FOR PROPOSED MODIFICATIONS TO UTILITIES & DRAINAGE STRUCTURES.
19. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER ON REMOVAL/RELOCATION OF ALL UTILITY POLES, LINES, AND GUY WIRES. SEE COVER SHEET FOR CONTACT INFO.

NOTES:

1. THE PROPERTY SHOWN HEREON IS SUBJECT TO ALL EASEMENTS OF RECORD AFFECTING SAME.
2. NO TITLE SEARCH HAS BEEN PERFORMED BY THIS FIRM DURING THE COURSE OF THIS SURVEY.
3. THIS SURVEYOR DOES NOT CERTIFY TO THE EXISTENCE OR NON-EXISTENCE OF ANY UNDER GROUND UTILITIES THAT MAY OR MAY NOT BE PRESENT ON THIS SITE. THE INFORMATION PRESENTED HERE IS FROM A COMBINATION OF HISTORIC AERIAL BASE FILE INFORMATION, AS-BUILTS, AND RECENT SURVEY.

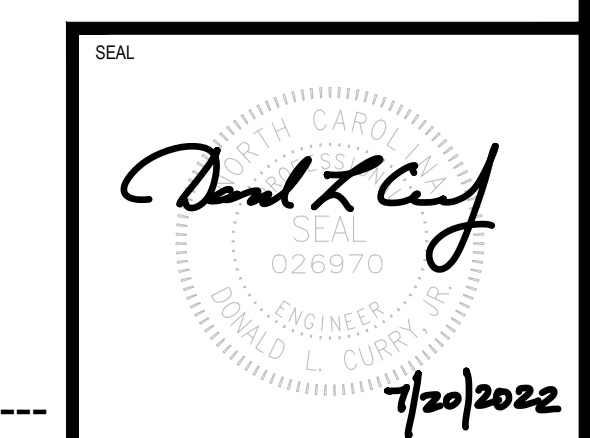
SURVEYOR NOTES:

1. PROPERTY IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD. NO TITLE SEARCH HAS BEEN DONE BY ROBINSON & PLANTE, P.C.
2. PROPERTY IS NOT IN A SPECIAL FLOOD HAZARD AREA BY FEMA FIRM MAP NO. 37200662001 PANEL EFFECTIVE DATE 10/03/2006.
3. UNDERGROUND UTILITIES FOUND PAINTED/FLAGGED BY OTHERS AND FIELD LOCATED DURING THE COURSE OF THE SURVEY.
4. ENCROACHMENTS SHOWN ARE VISIBLE PHYSICAL CONDITIONS LOCATED DURING THE COURSE OF THE SURVEY AND ARE NOT TO BE INTERPRETED AS A LEGAL DETERMINATION AS TO WHETHER THEY ARE TRUE ENCROACHMENTS.
5. ELEVATIONS ARE NAVD 88.

Surveyor:
Robinson & Plante, PC
970 Trinity Road
Raleigh, NC 27607
919-859-6030 (o)
Contact: Buddy Plante, PLS
buddy@robinsonplante.com

BEFORE YOU DIG
CALL TOLL FREE
1 800 632 4949

SCALE: 1 IN = 40 FT
SCALE IN FEET
HORIZONTAL



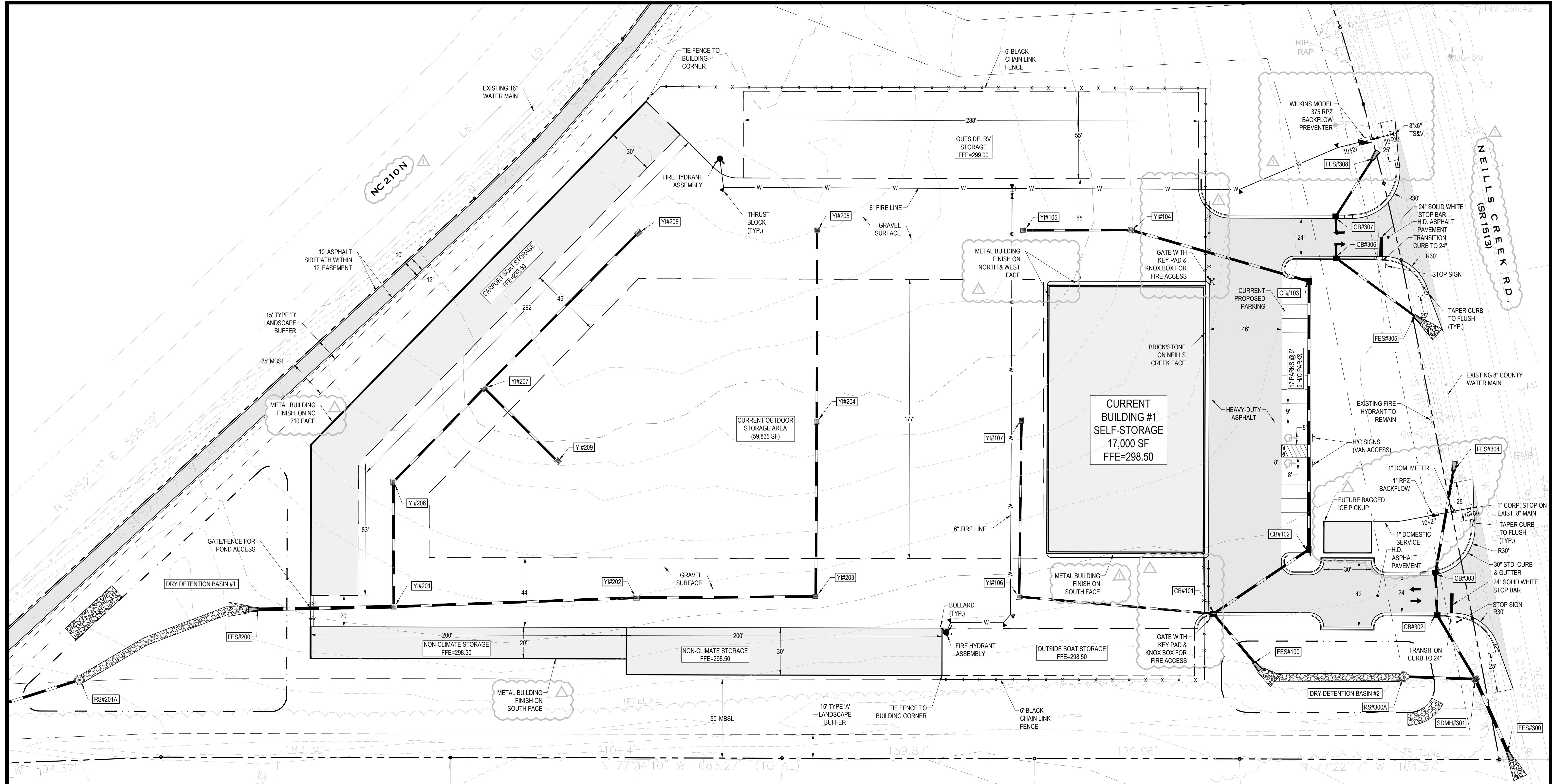
**LAKESIDE SELF-STORAGE - HARNETT COUNTY
EXISTING CONDITIONS & DEMOLITION PLAN**

Curry
ENGINEERING

206 S. Fidelity Avenue
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T (919) 682-9849
F (919) 682-2044

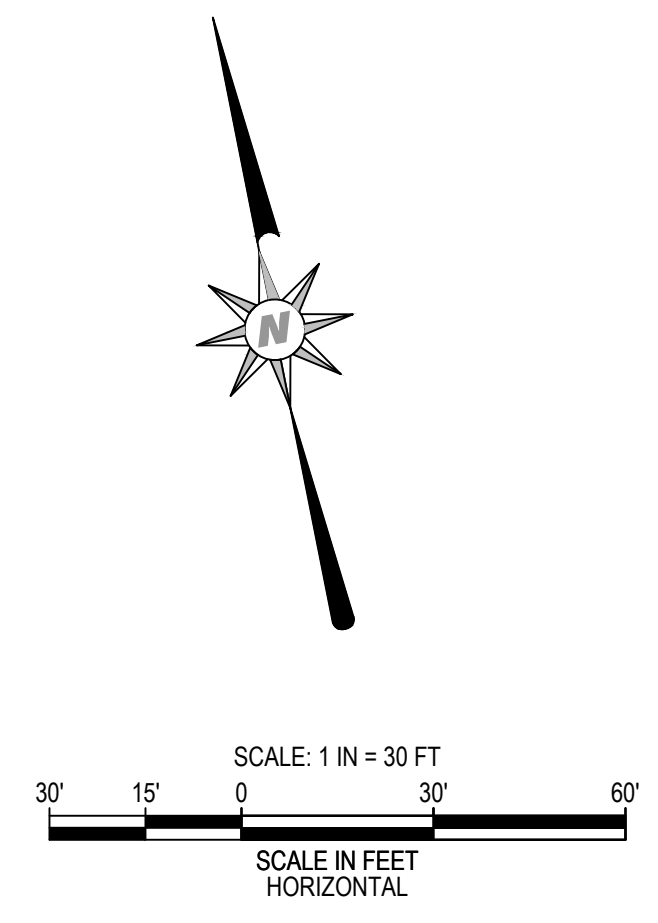
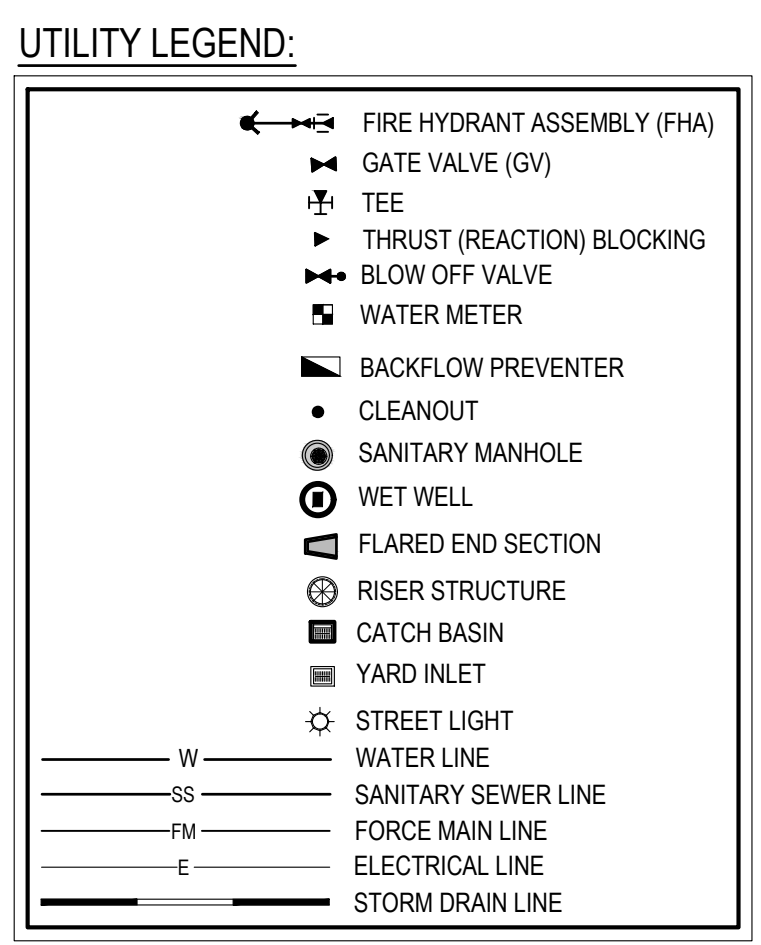
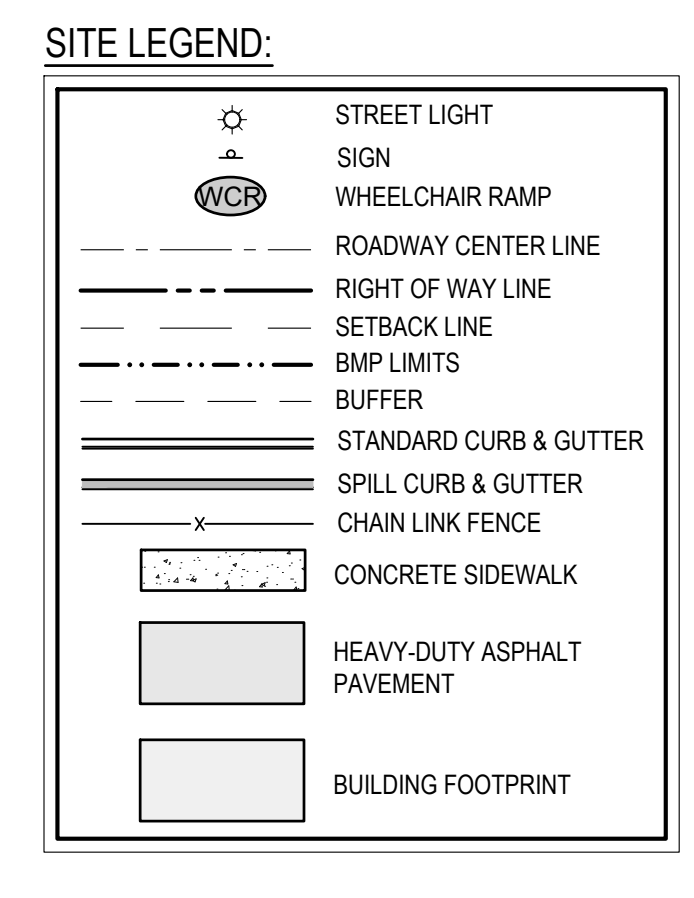
DATE: 7/20/2022
FILE NO.: 2020023
HORZ SCALE: 1"=40'
VERT SCALE: 1"=3'

C-01



- SITE NOTES:**
1. ALL SIGNS SHOULD USE PRISMATIC SHEETING THAT MEETS MINIMUM RETROREFLECTIVITY STANDARDS FOUND IN THE LATEST EDITION OF THE MUTCD.
 2. ALL CONSTRUCTION MUST BE PERFORMED IN ACCORDANCE WITH HARNETT COUNTY, NCDOT, AND NCEDEO STANDARD SPECIFICATIONS AND DETAILS. ALL ASPHALT EDGES SHALL BE SAW CUT TO PROVIDE A GOOD LONGITUDINAL JOINT. MILL 1.5 FEET AT 1.5 INCHES DEEP MINIMUM TO PROVIDE A LONGITUDINAL LAP JOINT FOR FINAL SURFACE LAYER. NO MILLING SHALL BE LEFT FOR A PERIOD OF TIME GREATER THAN 48 HOURS BEFORE A STREET IS TO BE PAVED/RESURFACED.
 3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ANY PERMITS AND/OR CONNECTION FEES REQUIRED TO CARRY OUT THE WORK. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL GRADES PRIOR TO THE START OF CONSTRUCTION.
 4. EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.
 5. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT, FACE OF CURB, FACE OF BUILDING, OR PROPERTY LINE UNLESS SHOWN OTHERWISE.
 6. TACTILE WARNING MATS ARE TO BE INSTALLED ON ALL WHEELCHAIR RAMPS.
 7. ALL PARKING STALL MARKINGS AND LANE ARROWS WITHIN THE PARKING AREAS SHALL BE WHITE.
 8. MAX. SIDEWALK CROSS-SLOPE IS 2%.
 9. PARKING AREAS, DRIVE AISLES, AND LANDSCAPE BUFFERS WILL BE INSTALLED BY THE OWNER, LAKESIDE STORAGE.
 10. SIGNS SHALL BE SET BACK AT LEAST 10' FROM NCDOT ROW. COORDINATE WITH HARNETT COUNTY FOR APPLICABLE SIGN PERMIT (MAX. 1' PER ROAD FRONTAGE).

- UTILITY NOTES:**
1. ALL CONSTRUCTION SHALL BE PER HARNETT COUNTY STANDARDS AND SPECIFICATIONS.
 2. THERE SHALL BE NO UNPERMITTED DISTURBANCE IN THE EXISTING WETLANDS.
 3. CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, RIGHT-OF-WAYS AND UTILITIES, PUBLIC OR PRIVATE, BEFORE WORKING IN THESE AREAS.
 4. CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY EXISTING ITEM AND/OR MATERIAL DUE TO CONSTRUCTION OPERATIONS. ALL STREET SURFACES, UTILITY POLES, CULVERTS, DITCHES, CURB AND GUTTER OR OTHER STRUCTURES THAT ARE DISTURBED OR DAMAGED IN ANY MANNER AS A RESULT OF CONSTRUCTION SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR IN ACCORDANCE WITH THE APPROPRIATE SPECIFICATIONS.
 5. IF DEPARTURES FROM THE DRAWINGS OR SPECIFICATIONS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREOF SHALL BE SUBMITTED IN WRITING TO THE FACILITY DESIGNER FOR REVIEW. NO DEPARTURES FROM THE CONTRACT DOCUMENTS WILL BE ALLOWED WITHOUT APPROVAL BY THE FACILITY DESIGNER.
 6. ALL UTILITY WORK WITHIN THE PUBLIC RIGHT OF WAY OR PUBLIC EASEMENTS SHALL BE TO THE LATEST EDITION OF THE HARNETT REGIONAL WATER STANDARDS AND THE UTILITY MASTER PLAN.
 7. THE FOLLOWING BACKFLOW PREVENTION MODEL NUMBERS SHALL BE PROVIDED:
- 1" DOMESTIC BACKFLOW RPZ = WILKINS MODEL 975XL
 8. CONTRACTOR SHALL CONTACT HARNETT REGIONAL WATER PRIOR TO MAKING CONNECTION TO ANY COUNTY OWNED INFRASTRUCTURE.
 9. A PRE CONSTRUCTION MEETING WILL BE REQUIRED BETWEEN THE CONTRACTOR & HARNETT COUNTY.
 10. CONTRACTOR CANNOT TAP WATER MAINS WITHOUT AN APPROVED WATER EXTENSION PERMIT ISSUED BY NCDENR - PUBLIC WATER SUPPLY.
 11. WATER MAINS SHALL BE CLASS 200 C900 PVC I.A.W. AWWA C900. DUCTILE IRON PIPE WATER MAINS SHALL BE CLASS 350 DIP I.A.W. AWWA C-151 WITH PUSH ON JOINTS I.A.W. AWWA C-111. DIP SHALL BE CEMENT-MORTAR LINED AND SEALED WITH BITUMINOUS MATERIAL I.A.W. AWWA C-104. ALL DIP BURIED PIPE SHALL HAVE AN BITUMINOUS EXTERIOR COATING I.A.W. AWWA C-151. MINIMUM BURIAL DEPTH FOR WATER MAIN IS 36 INCHES BELOW FINISHED GRADE. WATER MAINS SHALL BE INSTALLED WITH TYPE 1 LAYING CONDITION PER HARNETT COUNTY SPECIFICATIONS. ALL FITTINGS SHALL BE MECHANICAL JOINTS I.A.W. AWWA C-111.
 12. ALL NON-METALLIC PIPING MUST BE INSTALLED WITH TRACER WIRE PER HARNETT COUNTY STANDARDS.
 13. PRIVATE UTILITIES (TELEPHONE, NATURAL GAS, CABLE TV) ARE NOT SHOWN ON THIS PLAN. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THOSE UTILITIES WHEN INSTALLING PUBLIC UTILITIES.
 14. WATER METERS SHALL NOT BE LOCATED WITHIN DRIVEWAYS - NO EXCEPTIONS.
 15. ELECTRICAL TRANSFORMERS SHALL NOT BE LOCATED WITHIN REQUIRED LANDSCAPED BUFFERS.
 16. ALL ELECTRICAL THROUGHOUT THE SITE SHALL BE UNDERGROUND.
 17. REFER TO D-01 FOR HARNETT COUNTY PUBLIC UTILITIES REQUIRED NOTES.
 18. WATER SUPPLY WATERSHED SPECIAL INTENSITY ALLOCATION PERMIT, BOA2001-0001, FOR 54% IMPERVIOUS WAS APPROVED ON 2/10/2020.
 19. ALL UTILITIES, INCLUDING FIRE HYDRANTS, INSTALLED OUTSIDE OF THE PROPOSED ROW MUST BE IN A PUBLIC UTILITY EASEMENT.
 20. A LICENSED UTILITY CONTRACTOR WILL INSTALL THE PROPOSED WATER SERVICE.
 21. WATER USAGE: 4 STAFF AT 25 GPD PER EMPLOYEE (1 SHIFT) = 100 GPD



Seal of the State of North Carolina, Professional Engineer, Donald L. Curry, License No. 026970, dated 12/20/2022.

LAKESIDE SELF-STORAGE - HARNETT COUNTY
SITE & UTILITY PLAN

208 S. Fidelity Avenue
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www.curry-engineering.com

DATE: 7/20/21
FILE NO.: 2020023
HORIZ SCALE: 1"=30'
ORIG. SHEET SIZE: 24" x 36"

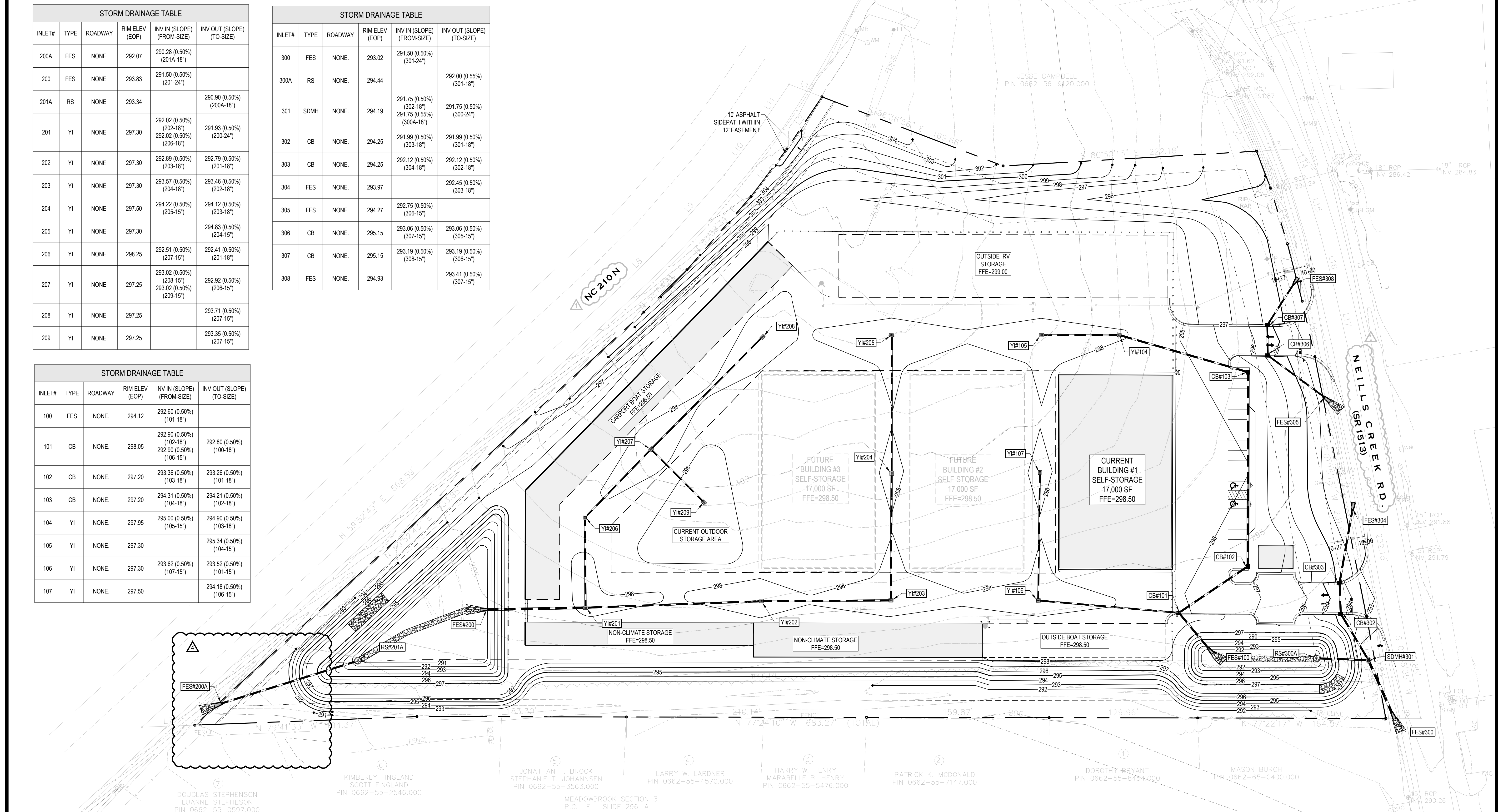
Curry ENGINEERING
C-03

INLET#	TYPE	ROADWAY	RIM ELEV (EOP)	INV IN (SLOPE) (FROM-SIZE)	INV OUT (SLOPE) (TO-SIZE)
200A	FES	NONE.	292.07	290.28 (0.50%) (201A-18")	
200	FES	NONE.	293.83	291.50 (0.50%) (201-24")	
201A	RS	NONE.	293.34		290.90 (0.50%) (200A-18")
201	YI	NONE.	297.30	292.02 (0.50%) (202-18") 292.02 (0.50%) (206-18")	291.93 (0.50%) (200-24")
202	YI	NONE.	297.30	292.89 (0.50%) (203-18")	292.79 (0.50%) (201-18")
203	YI	NONE.	297.30	293.57 (0.50%) (204-18")	293.46 (0.50%) (202-18")
204	YI	NONE.	297.50	294.22 (0.50%) (205-15")	294.12 (0.50%) (203-18")
205	YI	NONE.	297.30		294.83 (0.50%) (204-15")
206	YI	NONE.	298.25	292.51 (0.50%) (207-15")	292.41 (0.50%) (201-18")
207	YI	NONE.	297.25	293.02 (0.50%) (208-15") 293.02 (0.50%) (209-15")	292.92 (0.50%) (206-15")
208	YI	NONE.	297.25		293.71 (0.50%) (207-15")
209	YI	NONE.	297.25		293.35 (0.50%) (207-15")

INLET#	TYPE	ROADWAY	RIM ELEV (EOP)	INV IN (SLOPE) (FROM-SIZE)	INV OUT (SLOPE) (TO-SIZE)
300	FES	NONE.	293.02	291.50 (0.50%) (301-24")	
300A	RS	NONE.	294.44		292.00 (0.55%) (301-18")
301	SDMH	NONE.	294.19	291.75 (0.50%) (302-18") 291.75 (0.55%) (300A-18")	291.75 (0.50%) (300-24")
302	CB	NONE.	294.25	291.99 (0.50%) (303-18")	291.99 (0.50%) (301-18")
303	CB	NONE.	294.25	292.12 (0.50%) (304-18")	292.12 (0.50%) (302-18")
304	FES	NONE.	293.97		292.45 (0.50%) (303-18")
305	FES	NONE.	294.27	292.75 (0.50%) (306-15")	
306	CB	NONE.	295.15	293.06 (0.50%) (307-15")	293.06 (0.50%) (305-15")
307	CB	NONE.	295.15	293.19 (0.50%) (308-15")	293.19 (0.50%) (306-15")
308	FES	NONE.	294.93		293.41 (0.50%) (307-15")

INLET#	TYPE	ROADWAY	RIM ELEV (EOP)	INV IN (SLOPE) (FROM-SIZE)	INV OUT (SLOPE) (TO-SIZE)
100	FES	NONE.	294.12	292.60 (0.50%) (101-18")	
101	CB	NONE.	298.05	292.90 (0.50%) (102-18") 292.90 (0.50%) (106-15")	292.80 (0.50%) (100-18")
102	CB	NONE.	297.20	293.36 (0.50%) (103-18")	293.26 (0.50%) (101-18")
103	CB	NONE.	297.20	294.31 (0.50%) (104-18")	294.21 (0.50%) (102-18")
104	YI	NONE.	297.95	295.00 (0.50%) (105-15")	294.90 (0.50%) (103-18")
105	YI	NONE.	297.30		295.34 (0.50%) (104-15")
106	YI	NONE.	297.30	293.62 (0.50%) (107-15")	293.52 (0.50%) (101-15")
107	YI	NONE.	297.50		294.18 (0.50%) (106-15")

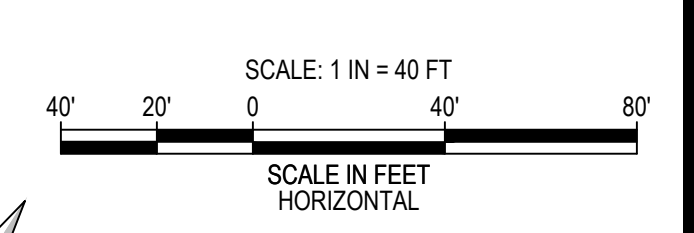
DATE: 7/20/2022 10:50 AM
 DRAWING NO.: 2020-023
 PROJECT: LAKESIDE SELF-STORAGE - HARNETT COUNTY
 SHEET: OVERALL GRADING & DRAINAGE PLAN



- GRADING & DRAINAGE NOTES:**
1. ALL STORM DRAINAGE PIPING SHALL BE CLASS III RCP UNLESS NOTED OTHERWISE.
 2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NCDEQ, NCDOT, AND HARNETT COUNTY STANDARDS AND SPECIFICATIONS.
 3. CONTRACTOR SHALL COORDINATE ALL GRADING OPERATIONS WITH THE OWNER'S GEOTECHNICAL ENGINEER, AS APPROPRIATE.
 4. CONTRACTOR SHALL MAINTAIN POSITIVE SLOPE AND OUTFALL OF ANY FOUNDATION DRAIN SYSTEMS.
 5. SPOT ELEVATIONS ON CURB REFER TO THE BACK OR TOP OF CURB (TOC) ELEVATION. ELEVATIONS ON STORM DRAINAGE TABULATIONS (SEE DETAIL SHEET) REFER TO EDGE OF PAVEMENT (EOP) ELEVATION.
 6. ALL STORM DRAIN HOODS, MANHOLE COVERS AND GRATES ARE TO BE LABELED "NO DUMPING DRAINS TO STREAM".
 7. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL GRADES PRIOR TO THE START OF CONSTRUCTION.
 8. THIS SITE IS ANTICIPATED TO BE A BALANCE EARTHWORK SITE. IN THE EVENT MATERIAL IS TAKEN OFF-SITE OR RECEIVED FROM AN OFF-SITE SOURCE, NCDEQ MUST BE NOTIFIED AND THE MATERIAL MUST ORIGINATE FROM A PERMITTED FACILITY.
 9. RETAINING WALLS OVER 4' IN HEIGHT MUST BE PERMITTED SEPARATELY.

LEGEND:

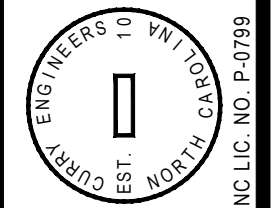
- FLARED END SECTION
- RISER STRUCTURE
- CATCH BASIN
- YARD INLET
- SW=295.40
FG =295.32
- SPOT ELEVATION
- 4.0%
- FLOW DIRECTION
- RIP-RAP OUTLET PROTECTION
- MAJOR CONTOUR
- STORM DRAIN LINE
- MINOR CONTOUR
- INTERMEDIATE CONTOUR



Professional Engineer Seal for Donald L. Curry, License No. 25133, State of North Carolina. Date: 7/20/2022.

**LAKESIDE SELF-STORAGE - HARNETT COUNTY
OVERALL GRADING & DRAINAGE PLAN**

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 CURRY ENGINEERING

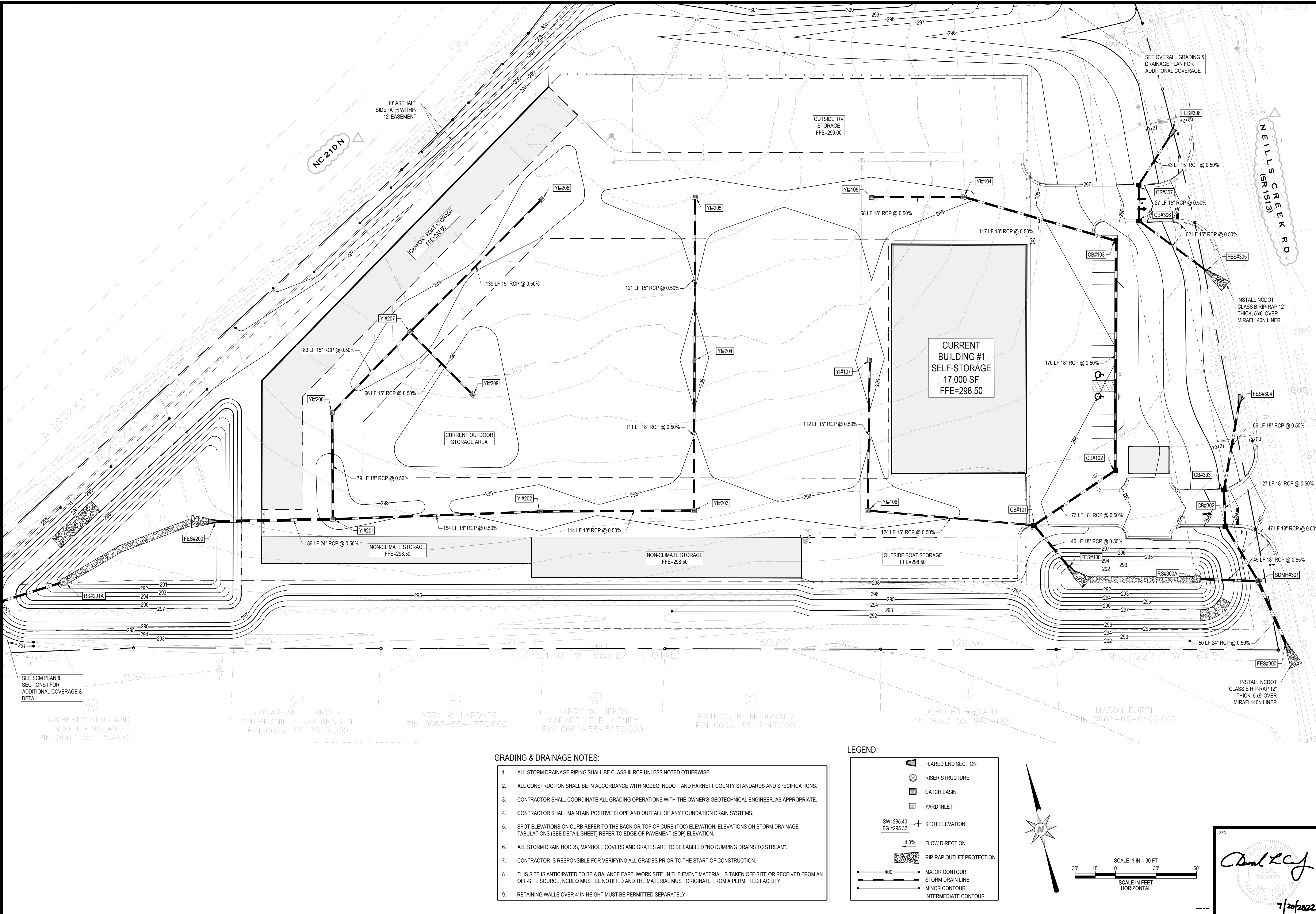


Curry ENGINEERING
 C-04
 7/20/2022

REVISIONS

NO.	DATE	BY	REVISION
1	10/02/2021		HARNETT COUNTY COMMENTS
2	2/17/2022		HARNETT COUNTY COMMENTS
3	5/12/2022		NC DOT COMMENTS #1
4	5/12/2022		NC DOT COMMENTS #2

DATE: 7/20/21
 FILE NO.: 2020-023
 HORIZ SCALE: 1"=40'
 VERT SCALE: 1"=4'



REVISIONS

NO.	DATE	DESCRIPTION
1	10/20/2021	MARKET COUNTY COMMENTS
2	2/17/2022	HARNETT & NC DOT COMMENTS
3	3/1/2022	NC DOT COMMENTS #2
4	5/27/2022	NC DOT COMMENTS #2

DATE: 7/20/2022
 FILE NO.: 2020-023
 HORIZ SCALE: 1" = 30'
 VERT SCALE: 1" = 4' 36"

**LAKESIDE SELF-STORAGE - HARNETT COUNTY
 GRADING & DRAINAGE PLAN**

208 S. Furly Avenue
 Fuquay-Varina, NC 27058
 T (919) 552-9449
 F (919) 552-2043

7/20/2022
C-05

P:\WORK\2021\182-023\182-023-023\DWG\182-023-023-023-023.DWG (D:\BROOKINGS\A\DRAINAGE PLAN\DWG) 11/17/2022 10:31 AM

SEE SCM PLAN &
 SECTIONS I FOR
 ADDITIONAL COVERAGE &
 DETAIL

KIMBERLY FINLAND
 SCOTT FINLAND
 PIN 0662-55-2546.000

JONATHAN T. BROCK
 STEPHANIE T. JOHANNSEN
 PIN 0662-55-3563.000

LARRY W. LARDNER
 PIN 0662-55-4570.000

HARRY W. HENRY
 MARABELLE B. HENRY
 PIN 0662-55-5476.000

PATRICK K. McDONALD
 PIN 0662-55-7147.000

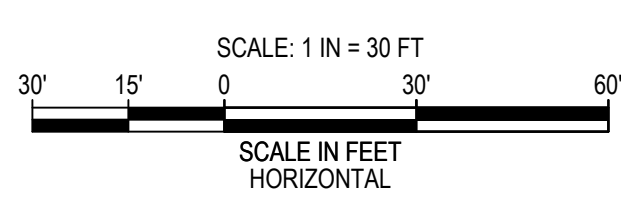
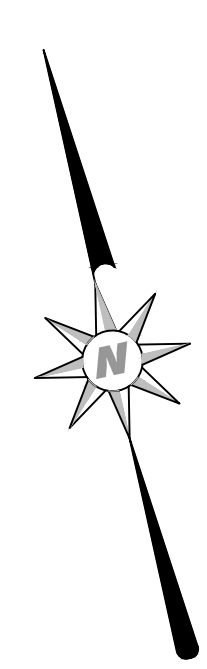
DOROTHY BRYANT
 PIN 0662-55-8454.000

MASON BURCH
 PIN 0662-65-0400.000

- GRADING & DRAINAGE NOTES:**
- ALL STORM DRAINAGE PIPING SHALL BE CLASS III RCP UNLESS NOTED OTHERWISE.
 - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NCEQ, NCDOT, AND HARNETT COUNTY STANDARDS AND SPECIFICATIONS.
 - CONTRACTOR SHALL COORDINATE ALL GRADING OPERATIONS WITH THE OWNER'S GEOTECHNICAL ENGINEER, AS APPROPRIATE.
 - CONTRACTOR SHALL MAINTAIN POSITIVE SLOPE AND OUTFALL OF ANY FOUNDATION DRAIN SYSTEMS.
 - SPOT ELEVATIONS ON CURB REFER TO THE BACK OR TOP OF CURB (TOC) ELEVATION. ELEVATIONS ON STORM DRAINAGE TABULATIONS (SEE DETAIL SHEET) REFER TO EDGE OF PAVEMENT (EOP) ELEVATION.
 - ALL STORM DRAIN HOODS, MANHOLE COVERS AND GRATES ARE TO BE LABELED "NO DUMPING DRAINS TO STREAM".
 - CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL GRADES PRIOR TO THE START OF CONSTRUCTION.
 - THIS SITE IS ANTICIPATED TO BE A BALANCE EARTHWORK SITE. IN THE EVENT MATERIAL IS TAKEN OFF-SITE OR RECEIVED FROM AN OFF-SITE SOURCE, NCEQ MUST BE NOTIFIED AND THE MATERIAL MUST ORIGINATE FROM A PERMITTED FACILITY.
 - RETAINING WALLS OVER 4' IN HEIGHT MUST BE PERMITTED SEPARATELY.

LEGEND:

- FLARED END SECTION
- RISER STRUCTURE
- CATCH BASIN
- YARD INLET
- SPOT ELEVATION (SW=295.40 FG=295.32)
- FLOW DIRECTION (4.0%)
- RIP-RAP OUTLET PROTECTION
- MAJOR CONTOUR
- STORM DRAIN LINE
- MINOR CONTOUR
- INTERMEDIATE CONTOUR

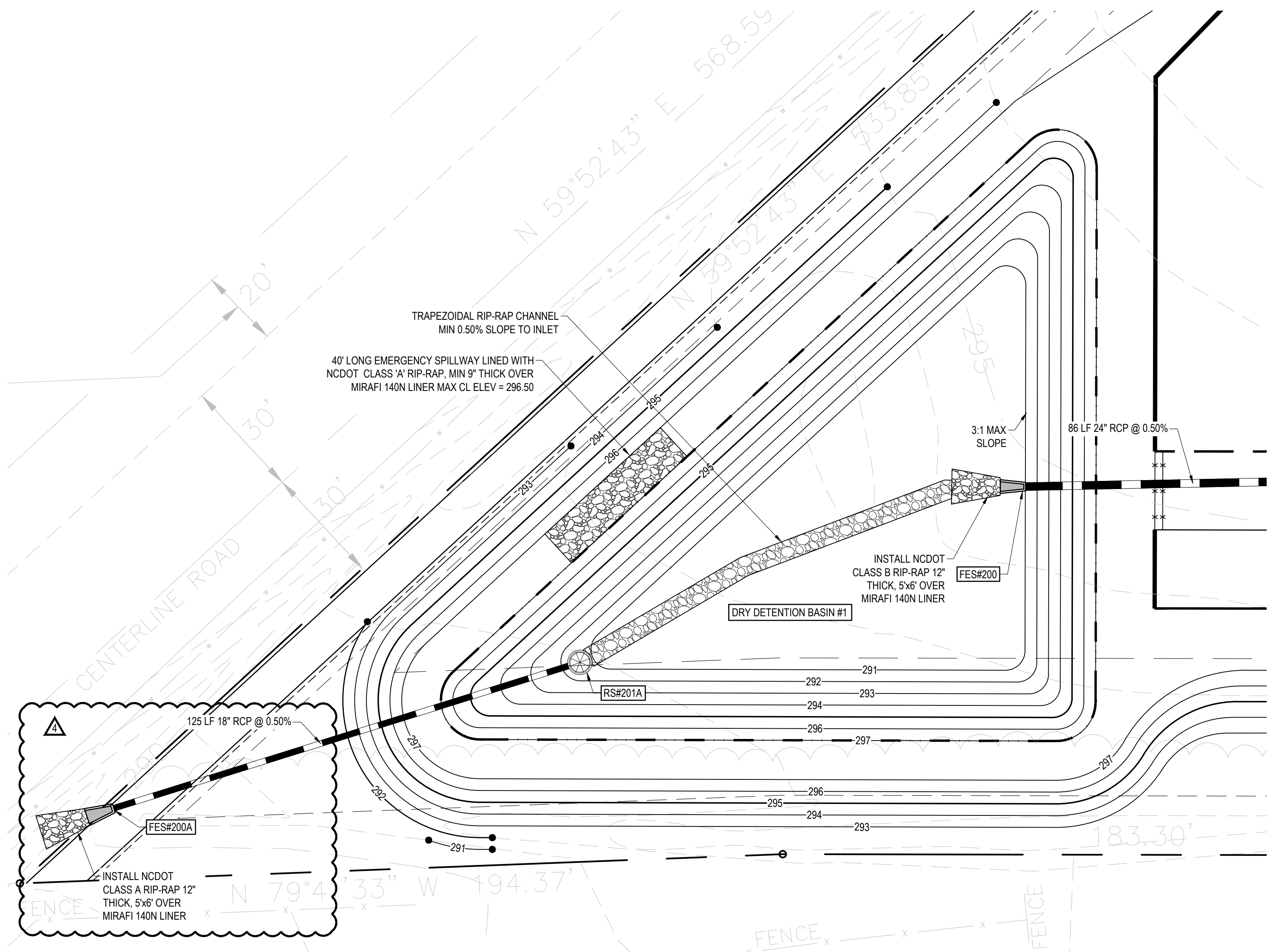
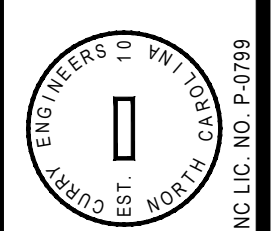


7/20/2022

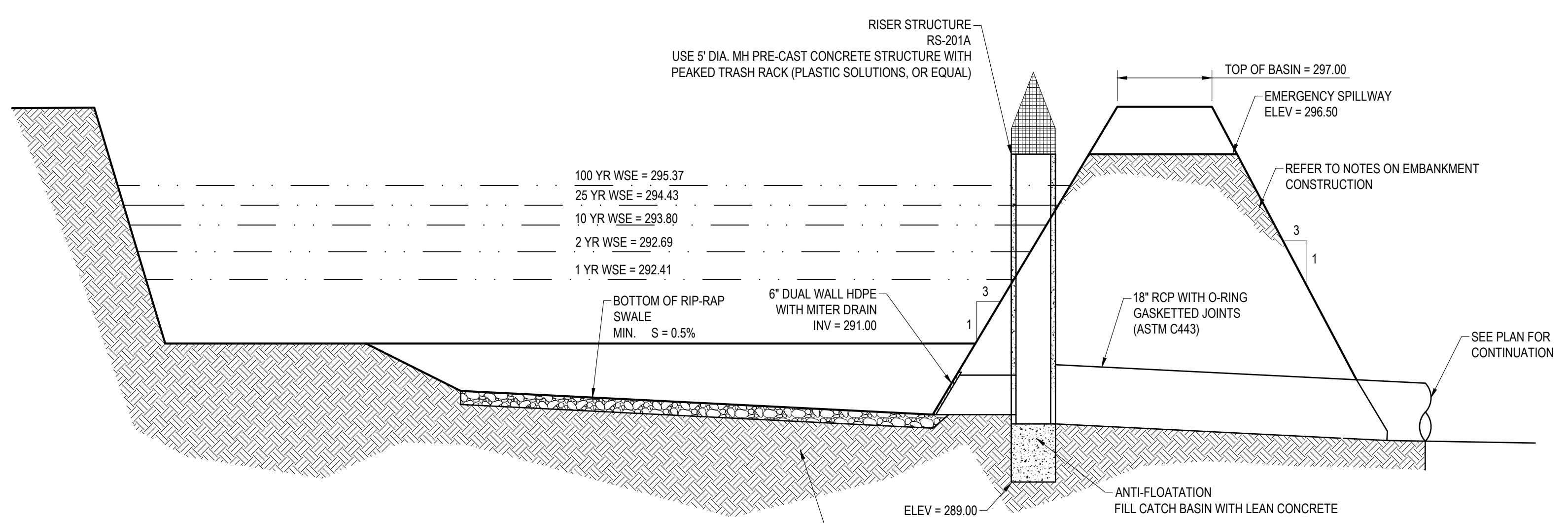
GENERAL NOTES:

- THIS SITE IS LOCATED IN THE CAPE FEAR RIVER BASIN.
- DRY DETENTION BASIN SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES STORMWATER BMP MANUAL - LATEST EDITION. DRY DETENTION BASIN PROVIDES MINIMAL WATER QUALITY TREATMENT.
- THE PROJECT MEETS THE REQUIREMENTS OF NCDCEQ BMP MANUAL, LATEST EDITION.
- MAXIMUM SLOPE OF BASIN IS 3:1.
- ALL SIDE SLOPES, EMBANKMENTS AND SPILLWAYS SHALL BE COMPACTED TO MINIMUM 95% STANDARD PROCTOR PER ASTM-D698.
- CONTROLLED FILL, AS SPECIFIED BY THE RESIDENT ENGINEER, IN THE DAM EMBANKMENT SHALL BE PLACED IN 6-INCH LOOSE LAYERS (3-INCH LOOSE LAYERS WITHIN 3-FEET OF EITHER SIDE OF THE PRINCIPAL SPILLWAY PIPE TO A DEPTH OF 2-FEET OVER THE PIPE) AND SHALL BE COMPACTED TO A DENSITY OF NO LESS THAN 95% OF THE STANDARD PROCTOR MAXIMUM DENSITY AT A MOISTURE CONTENT OF + OR - TWO PERCENTAGE POINTS OF THE OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM-D698.
- ALL VISIBLE ORGANIC DEBRIS SUCH AS ROOTS AND LIMBS SHALL BE REMOVED FROM THE FILL MATERIAL PRIOR TO COMPACTION TO THE REQUIRED DENSITY. SOILS WITH ORGANIC MATTER CONTENT EXCEEDING 5% BY WEIGHT SHALL BE USED. STONES GREATER THAN 3-INCH (IN ANY DIRECTION) SHALL BE REMOVED FROM THE FILL PRIOR TO COMPACTION.
- FILL MATERIAL PLACED AT DENSITIES LOWER THAN SPECIFIED MINIMUM DENSITIES OR AT MOISTURE CONTENTS OUTSIDE THE SPECIFIED RANGES OR OTHERWISE NOT CONFORMING TO SPECIFIED REQUIREMENTS SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE MATERIALS.
- ANY FILL LAYER THAT IS SMOOTH DRUM ROLLED TO REDUCE MOISTURE PENETRATION DURING A STORM EVENT SHALL BE PROPERLY SCARIFIED PRIOR TO THE PLACEMENT OF THE NEXT SOIL LIFT.
- SURFACE WATER AND STREAM FLOW SHALL BE CONTINUOUSLY CONTROLLED THROUGHOUT CONSTRUCTION AND THE PLACEMENT OF CONTROLLED FILL.
- FOUNDATION AREAS MAY REQUIRE UNDERCUTTING OF COMPRESSIBLE AND/OR UNSUITABLE SOILS IN ADDITION TO THAT INDICATED ON THE PLANS. ALL SUCH UNDERCUTTING SHALL BE PERFORMED AT THE DISCRETION OF THE GEOTECHNICAL ENGINEER AND SHALL BE MONITORED AND DOCUMENTED. IN NO CASE SHALL THERE BE AN ATTEMPT TO STABILIZE AND PORTIONS OF THE FOUNDATION SOILS WITH CRUSHED STONE.
- TREATMENT OF SEEPAGE AREAS, SUBGRADE PREPARATION, FOUNDATION DEWATERING AND ROCK FOUNDATION PREPARATION (I.E., TREATMENT WITH SLUSH GROUTING, DENTAL CONCRETE, ETC.) MAY BE REQUIRED AT THE DISCRETION OF THE RESIDENTIAL ENGINEER. ALL SUCH ACTIVITIES SHALL BE CLOSELY MONITORED AND DOCUMENTED BY THE GEOTECHNICAL ENGINEER.
- FILL ADJACENT TO THE RISER AND PRINCIPAL SPILLWAY PIPE SHALL BE PLACED SO THAT LIFTS ARE AT THE SAME LEVEL ON BOTH SIDES OF THE STRUCTURES.
- EARTHWORK COMPACTION WITHIN 3-FEET OF ANY STRUCTURES SHALL BE ACCOMPLISHED BY MEANS OF HAND TAMPERS, MANUALLY DIRECTED POWER TAMPERS OR PLATE COMPACTORS OR MINIATURE SELF-PROPELLED ROLLERS.
- COMPACTION BY MEANS OF DROP WEIGHTS FROM A CRANE OR HOIST SHALL NOT BE PERMITTED.
- HEAVY EQUIPMENT SHALL NOT BE ALLOWED TO PASS OVER CAST-IN-PLACE STRUCTURES UNTIL ADEQUATE CURING TIME HAS ELAPSED.
- TO RE-ESTABLISH VEGETATION AFTER CONSTRUCTION, A 2- TO 3-INCH LAYER OF TOPSOIL SHALL BE PLACED ON THE DISTURBED EMBANKMENT SURFACE AND THE AREA SEEDED AND MULCHED OR HYDROSEEDING.
- ALL RISER STRUCTURES, INCLUDING WEIR WALL TYPE STRUCTURES, SHALL BE REINFORCED CONCRETE. BRICK/CONCRETE BLOCK AND MORTAR TYPE STRUCTURES WILL NOT BE ACCEPTED.
- ALL RISER STRUCTURES SHALL BE LOCATED SUCH THAT DIRECT ACCESS FROM THE DAM EMBANKMENT CAN BE ACHIEVED.
- RISER STRUCTURES WITH MULTIPLE BARREL SECTIONS SHALL HAVE GASKETTED JOINTS, AND EACH SECTION SHALL BE BOLTED TO ADJACENT SECTIONS WITH STAINLESS STEEL STRAPS.

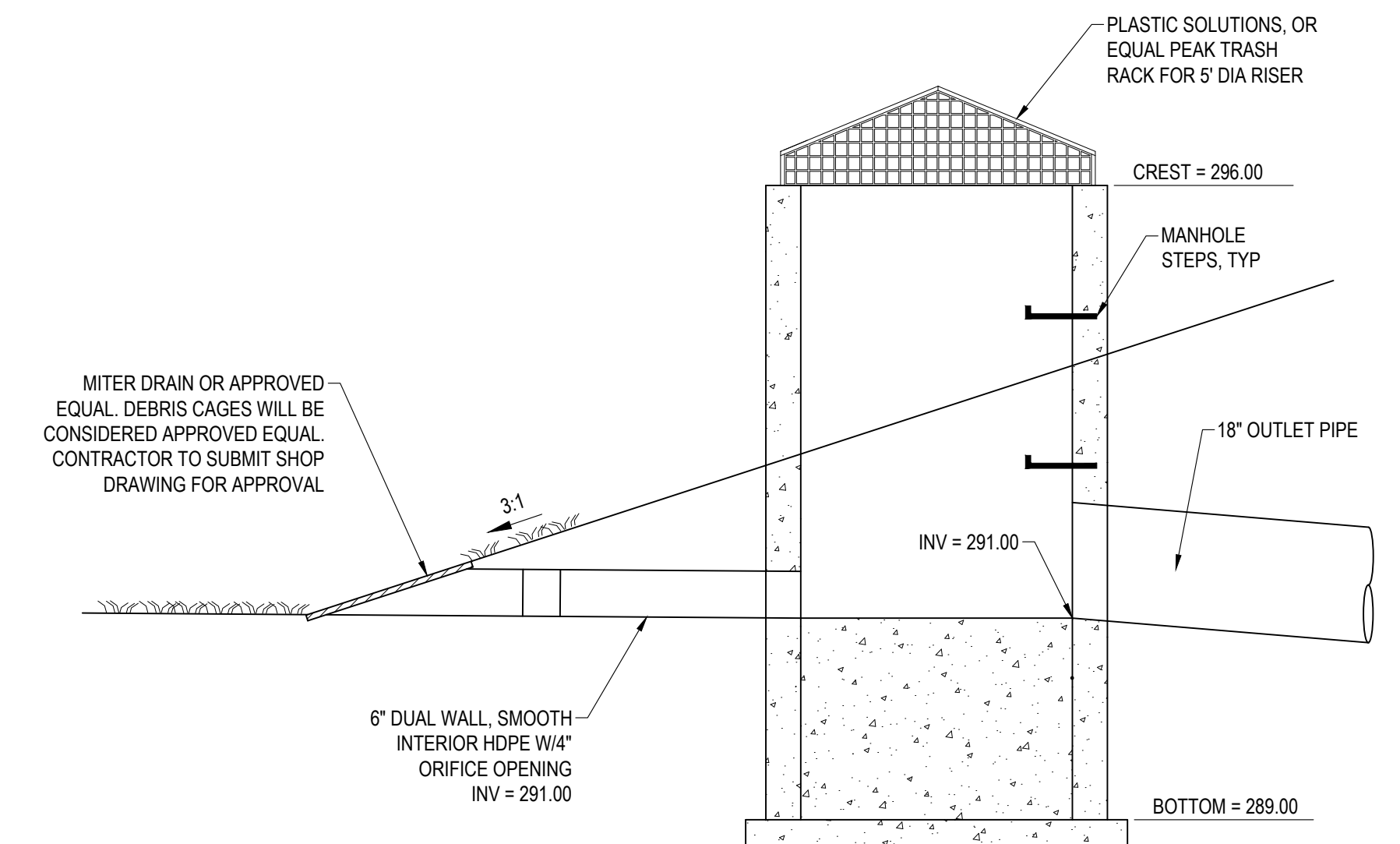
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F (919) 652-2043



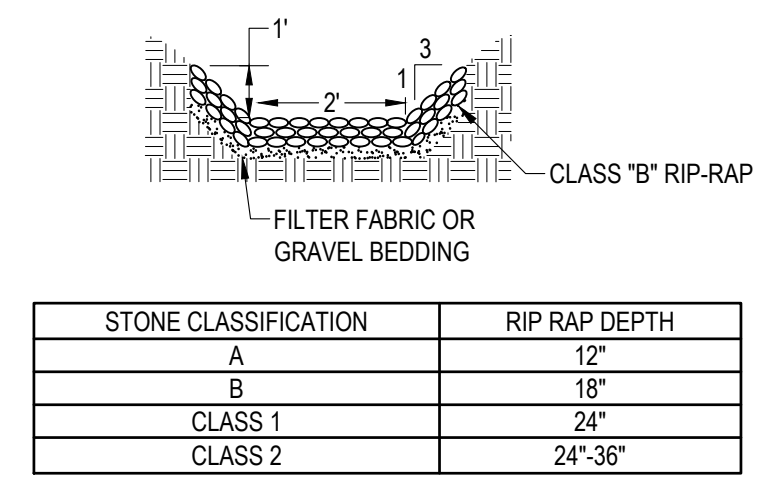
1 SCM LAYOUT
SCALE: 1"=20'



2 DRY DETENTION - SECTION A
SCALE: N.T.S.

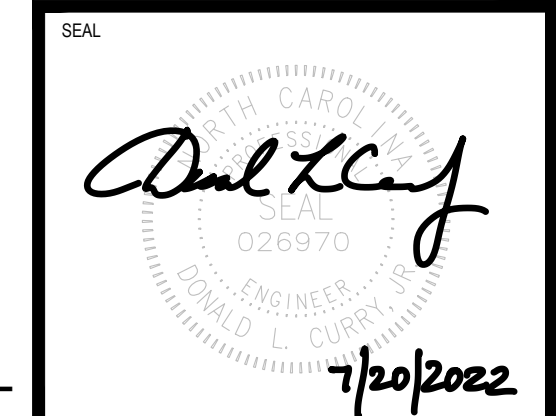


4 RISER STRUCTURE DETAIL
SCALE: N.T.S.



STONE CLASSIFICATION	RIP RAP DEPTH
A	12"
B	18"
CLASS 1	24"
CLASS 2	24"-36"

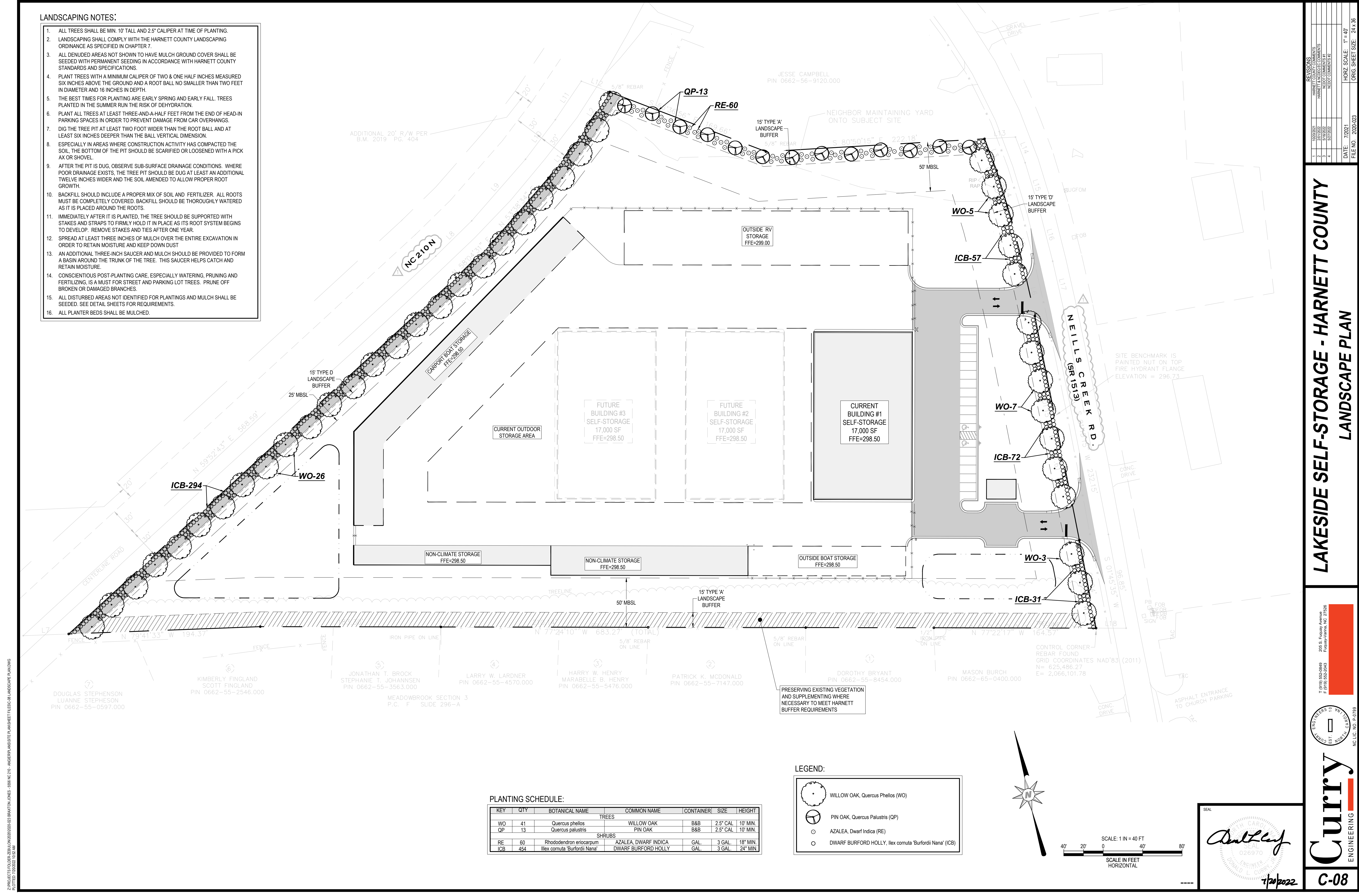
3 RIP-RAP CHANNEL
SCALE: N.T.S.



DRAWN BY: J. B. HARRIS, DATE: 06/02/2022, PROJECT NO: 2022-063, SHEET NO: 01 OF 02, FILE NO: 2022-063-01, PROJECT NAME: LAKESIDE SELF-STORAGE - HARNETT COUNTY, SCALE: AS SHOWN, DATE PLOTTED: 7/20/2022 10:51 AM

LANDSCAPING NOTES:

- ALL TREES SHALL BE MIN. 10' TALL AND 2.5" CALIPER AT TIME OF PLANTING.
- LANDSCAPING SHALL COMPLY WITH THE HARNETT COUNTY LANDSCAPING ORDINANCE AS SPECIFIED IN CHAPTER 7.
- ALL DENUDED AREAS NOT SHOWN TO HAVE MULCH GROUND COVER SHALL BE SEEDDED WITH PERMANENT SEEDING IN ACCORDANCE WITH HARNETT COUNTY STANDARDS AND SPECIFICATIONS.
- PLANT TREES WITH A MINIMUM CALIPER OF TWO & ONE HALF INCHES MEASURED SIX INCHES ABOVE THE GROUND AND A ROOT BALL NO SMALLER THAN TWO FEET IN DIAMETER AND 16 INCHES IN DEPTH.
- THE BEST TIMES FOR PLANTING ARE EARLY SPRING AND EARLY FALL. TREES PLANTED IN THE SUMMER RUN THE RISK OF DEHYDRATION.
- PLANT ALL TREES AT LEAST THREE-AND-A-HALF FEET FROM THE END OF HEAD-IN PARKING SPACES IN ORDER TO PREVENT DAMAGE FROM CAR OVERHANGS.
- DIG THE TREE PIT AT LEAST TWO FOOT WIDER THAN THE ROOT BALL AND AT LEAST SIX INCHES DEEPER THAN THE BALL VERTICAL DIMENSION.
- ESPECIALLY IN AREAS WHERE CONSTRUCTION ACTIVITY HAS COMPACTED THE SOIL, THE BOTTOM OF THE PIT SHOULD BE SCARIFIED OR LOOSENED WITH A PICK AX OR SHOVEL.
- AFTER THE PIT IS DUG, OBSERVE SUB-SURFACE DRAINAGE CONDITIONS. WHERE POOR DRAINAGE EXISTS, THE TREE PIT SHOULD BE DUG AT LEAST AN ADDITIONAL TWELVE INCHES WIDER AND THE SOIL AMENDED TO ALLOW PROPER ROOT GROWTH.
- BACKFILL SHOULD INCLUDE A PROPER MIX OF SOIL AND FERTILIZER. ALL ROOTS MUST BE COMPLETELY COVERED. BACKFILL SHOULD BE THOROUGHLY WATERED AS IT IS PLACED AROUND THE ROOTS.
- IMMEDIATELY AFTER IT IS PLANTED, THE TREE SHOULD BE SUPPORTED WITH STAKES AND STRAPS TO FIRMLY HOLD IT IN PLACE AS ITS ROOT SYSTEM BEGINS TO DEVELOP. REMOVE STAKES AND TIES AFTER ONE YEAR.
- SPREAD AT LEAST THREE INCHES OF MULCH OVER THE ENTIRE EXCAVATION IN ORDER TO RETAIN MOISTURE AND KEEP DOWN DUST.
- AN ADDITIONAL THREE-INCH SAUCER OF MULCH SHOULD BE PROVIDED TO FORM A BASIN AROUND THE TRUNK OF THE TREE. THIS SAUCER HELPS CATCH AND RETAIN MOISTURE.
- CONSCIENTIOUS POST-PLANTING CARE, ESPECIALLY WATERING, PRUNING AND FERTILIZING, IS A MUST FOR STREET AND PARKING LOT TREES. PRUNE OFF BROKEN OR DAMAGED BRANCHES.
- ALL DISTURBED AREAS NOT IDENTIFIED FOR PLANTINGS AND MULCH SHALL BE SEEDDED. SEE DETAIL SHEETS FOR REQUIREMENTS.
- ALL PLANTER BEDS SHALL BE MULCHED.



PLANTING SCHEDULE:

KEY	QTY	BOTANICAL NAME	COMMON NAME	CONTAINER	SIZE	HEIGHT
TREES						
WO	41	Quercus phellos	WILLOW OAK	B&B	2.5" CAL	10' MIN.
QP	13	Quercus palustris	PIN OAK	B&B	2.5" CAL	10' MIN.
SHRUBS						
RE	60	Rhododendron eriocarpon	AZALEA, DWARF INDICA	GAL.	3 GAL.	18" MIN.
ICB	454	Ilex cornuta 'Burfordii Nana'	DWARF BURFORD HOLLY	GAL.	3 GAL.	24" MIN.

LEGEND:

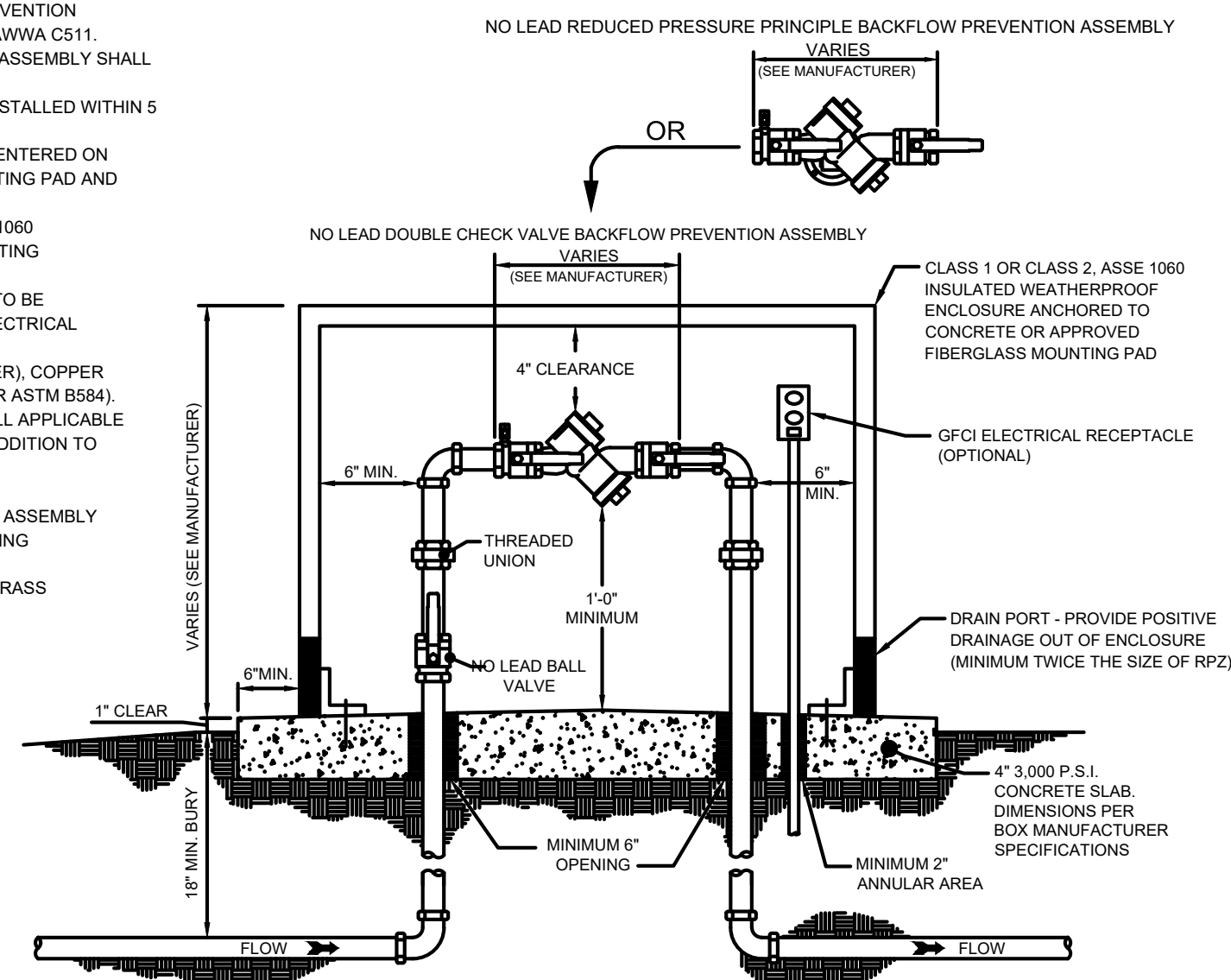
- WILLOW OAK, Quercus Phellos (WO)
- PIN OAK, Quercus Palustris (QP)
- AZALEA, Dwarf Indica (RE)
- DWARF BURFORD HOLLY, Ilex cornuta 'Burfordii Nana' (ICB)

SCALE: 1 IN = 40 FT
SCALE IN FEET
HORIZONTAL

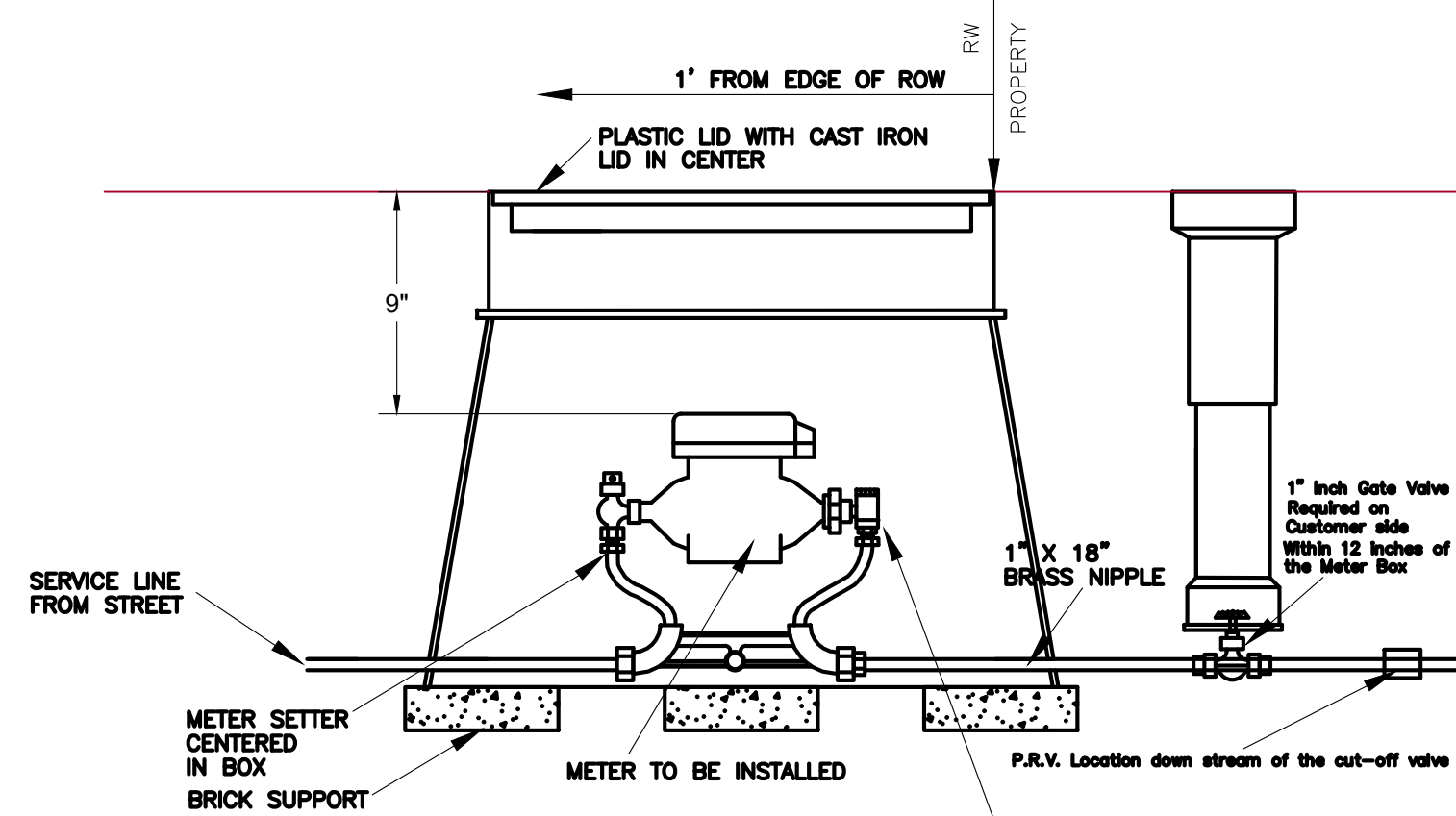
SEAL

7/20/2022

- NOTES:**
1. REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY SHALL COMPLY WITH ASSE 1013 & AWWA C511.
 2. DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY SHALL COMPLY WITH ASSE 1015 & AWWA C510.
 3. BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED WITHIN 5 FEET OF THE METER BOX.
 4. BACKFLOW PREVENTION ASSEMBLY SHALL BE CENTERED ON CONCRETE OR APPROVED FIBERGLASS MOUNTING PAD AND CENTERED WITHIN ENCLOSURE.
 5. MINIMUM INSULATED CLASS I OR CLASS II, ASSE 1080 WEATHERPROOF ENCLOSURE REQUIRED (HEATING OPTIONAL).
 6. OPTIONAL 120V GFCI ELECTRICAL RECEPTACLE TO BE INSTALLED IN ACCORDANCE WITH THE N.C. ELECTRICAL CODE FOR OUTDOOR OPERATION.
 7. PIPE MATERIAL SHALL BE PVC (SCH. 80 OR BETTER), COPPER (TYPE K), OR NO LEAD BRASS (UNS C89833 PER ASTM B584).
 8. INSTALLATION SHALL BE IN COMPLIANCE WITH ALL APPLICABLE TOWN ORDINANCES AND SPECIFICATIONS IN ADDITION TO THE N.C. PLUMBING CODE.
 9. PROPERTY OWNER SHALL BE RESPONSIBLE FOR MAINTENANCE AND OPERATION OF BACKFLOW ASSEMBLY AND COMPLIANCE WITH REPORTING AND TESTING REQUIREMENTS.
 10. ALL BRASS COMPONENTS SHALL BE "NO LEAD" BRASS MEETING UNS C89833 AS PER ASTM B584.

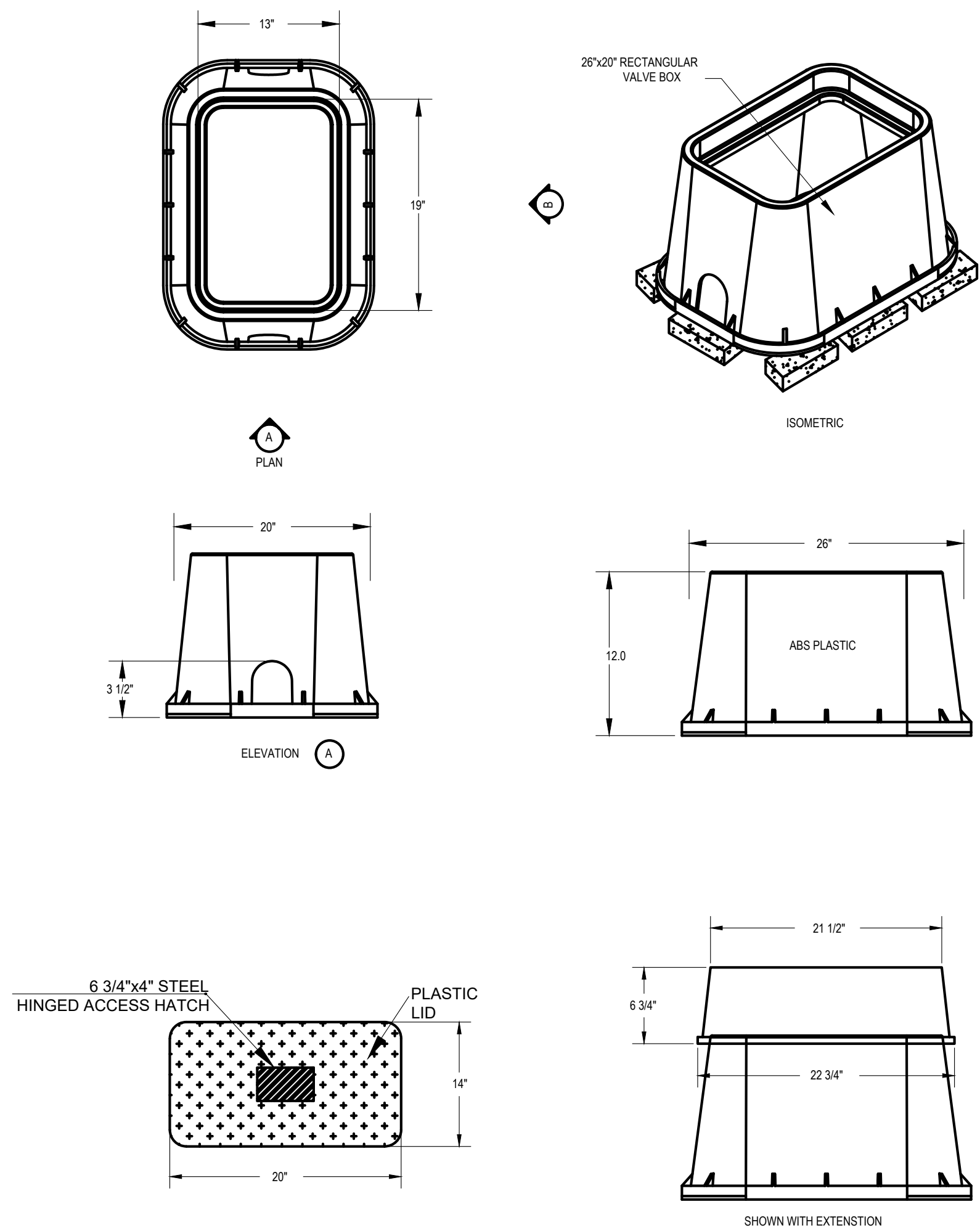


STANDARD 1" to 2" COMMERCIAL OUTDOOR BACKFLOW ASSEMBLY

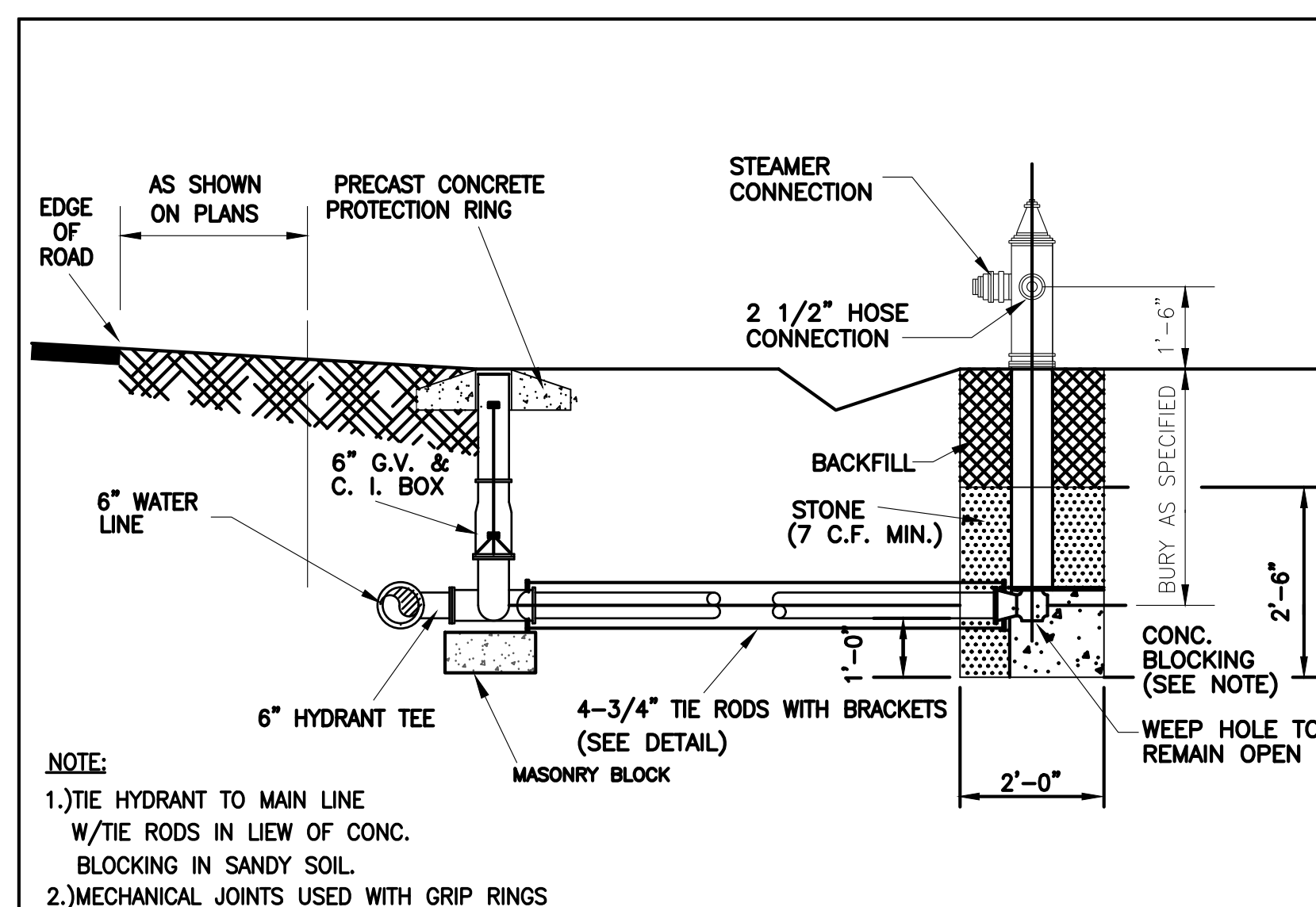


1. METER AND PRIVATE SERVICE LINE NOT IN CONTRACT UNLESS SPECIFIED METER SETTER WITH DOUBLE CHECK VALVE (BACKFLOW PREVENTER)
2. INCLUDE STONE IN PRICE OF METER BOX.
3. METER SETTER SIZE AS NOTED ON PLANS.
4. ALL BRASS FITTINGS SHALL BE COMPRESSION TYPE.

TYPICAL 1" METER SETTER INSTALLATION DETAIL W
NO SCALE 16

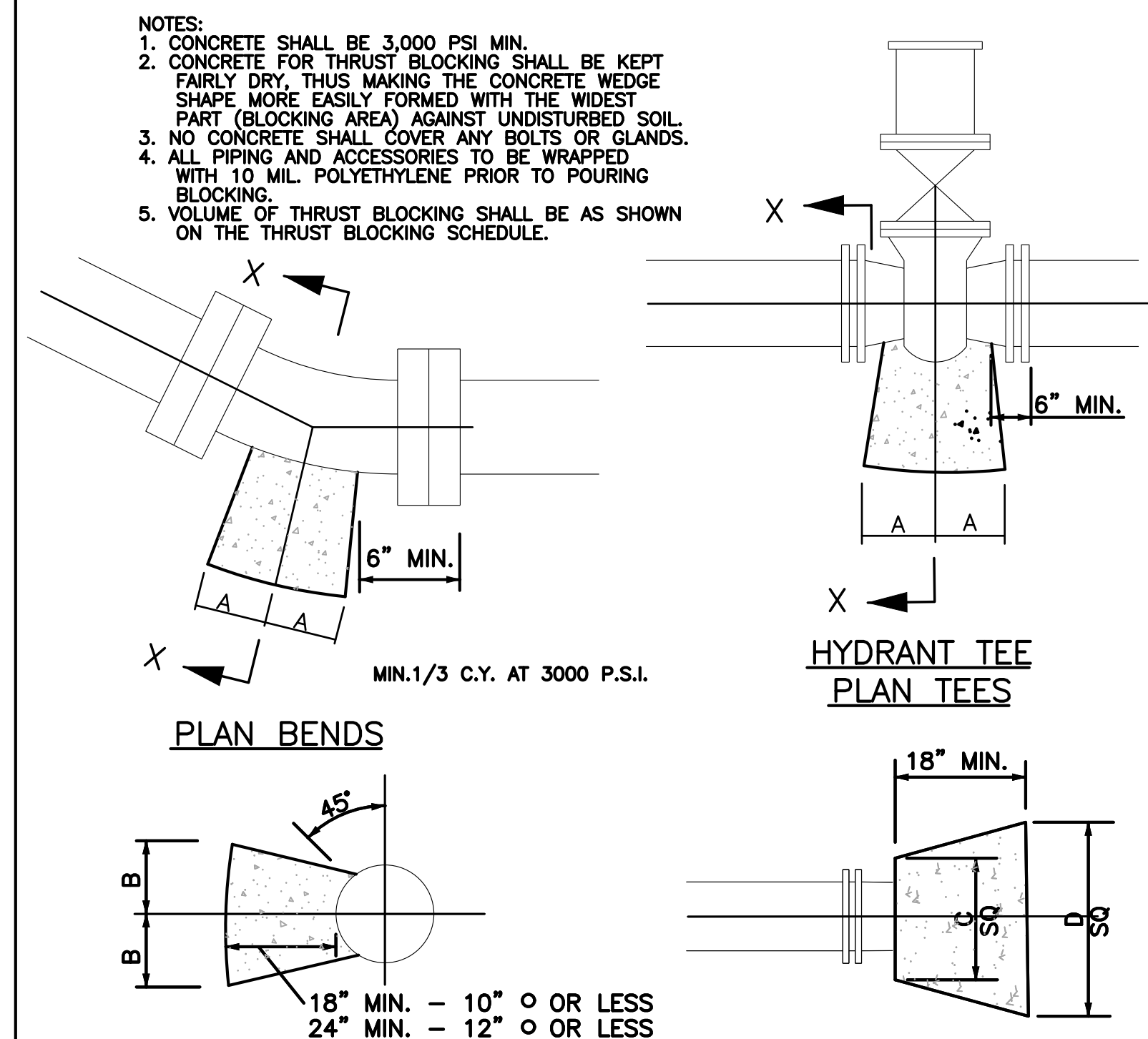


TYPICAL METER BOX DETAIL FOR 1" SERVICE W
NO SCALE 17



- NOTE:**
- 1.) TIE HYDRANT TO MAIN LINE W/TIE RODS IN LIEU OF CONC. BLOCKING IN SANDY SOIL.
 - 2.) MECHANICAL JOINTS USED WITH GRIP RINGS

TYPICAL FIRE HYDRANT INSTALLATION DETAIL W
NO SCALE 6



PIPE SIZE	90° BEND		45° BEND		22 1/2° BEND		11/4° BEND		TEE		PLUG	
	A	B	A	B	A	B	A	B	A	B	C	D
4"	8"	12"	8"	8"	6"	6"	6"	6"	8"	9"	10"	16"
6"	10"	12"	8"	10"	8"	8"	8"	8"	10"	10"	12"	18"
8"	15"	13"	10"	10"	8"	8"	8"	8"	10"	12"	12"	24"
10"	16"	14"	10"	12"	6"	10"	6"	10"	11"	14"	14"	25"
12"	20"	16"	12"	14"	8"	12"	8"	12"	14"	16"	16"	30"
14"	22"	18"	14"	16"	10"	14"	10"	14"	16"	18"	18"	34"
16"	26"	20"	16"	18"	12"	16"	12"	16"	18"	20"	20"	36"

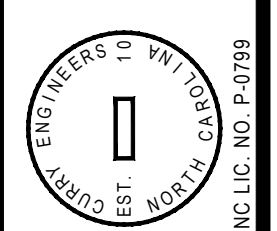
TYPICAL THRUST BLOCK DETAIL W
NO SCALE 7

REV.	DATE	BY	CHKD.	DESCRIPTION
1	10/20/2021			MARKET COUNTY COMMENTS
2	2/17/2022			HARNETT & HORN L.C. COMMENTS
3	2/17/2022			MARKET COUNTY COMMENTS #2
4	5/17/2022			MARKET COUNTY COMMENTS #2

DATE: 7/20/21
FILE NO.: 2020-023
HORN SCALE: NONE
ORIG. SHEET SIZE: 24x36

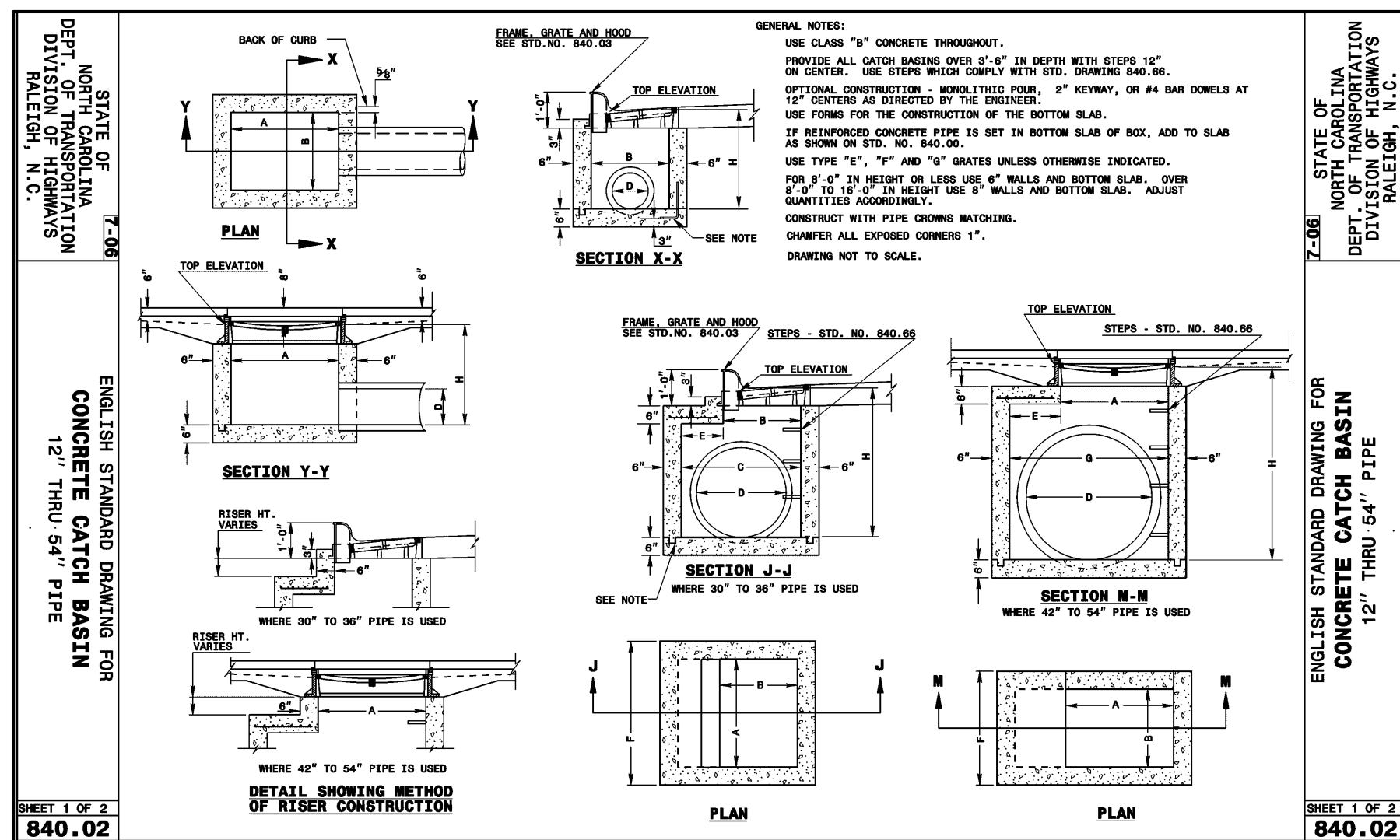
LAKESIDE SELF-STORAGE - HARNETT COUNTY
UTILITY DETAILS II

208 S. Fidelity Avenue
Fayetteville, NC 27808
T (919) 552-5849
F (919) 552-5043

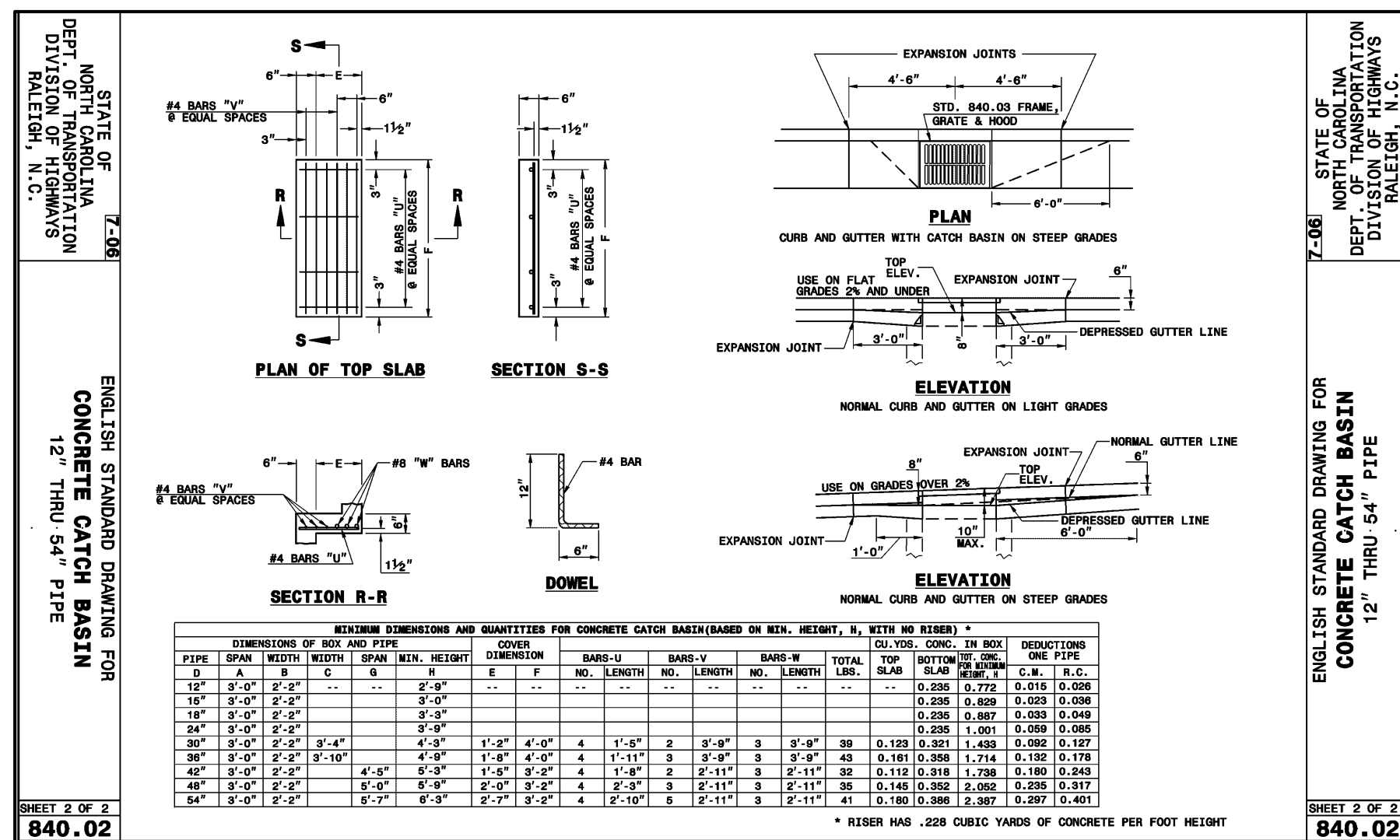


Curry
ENGINEERING

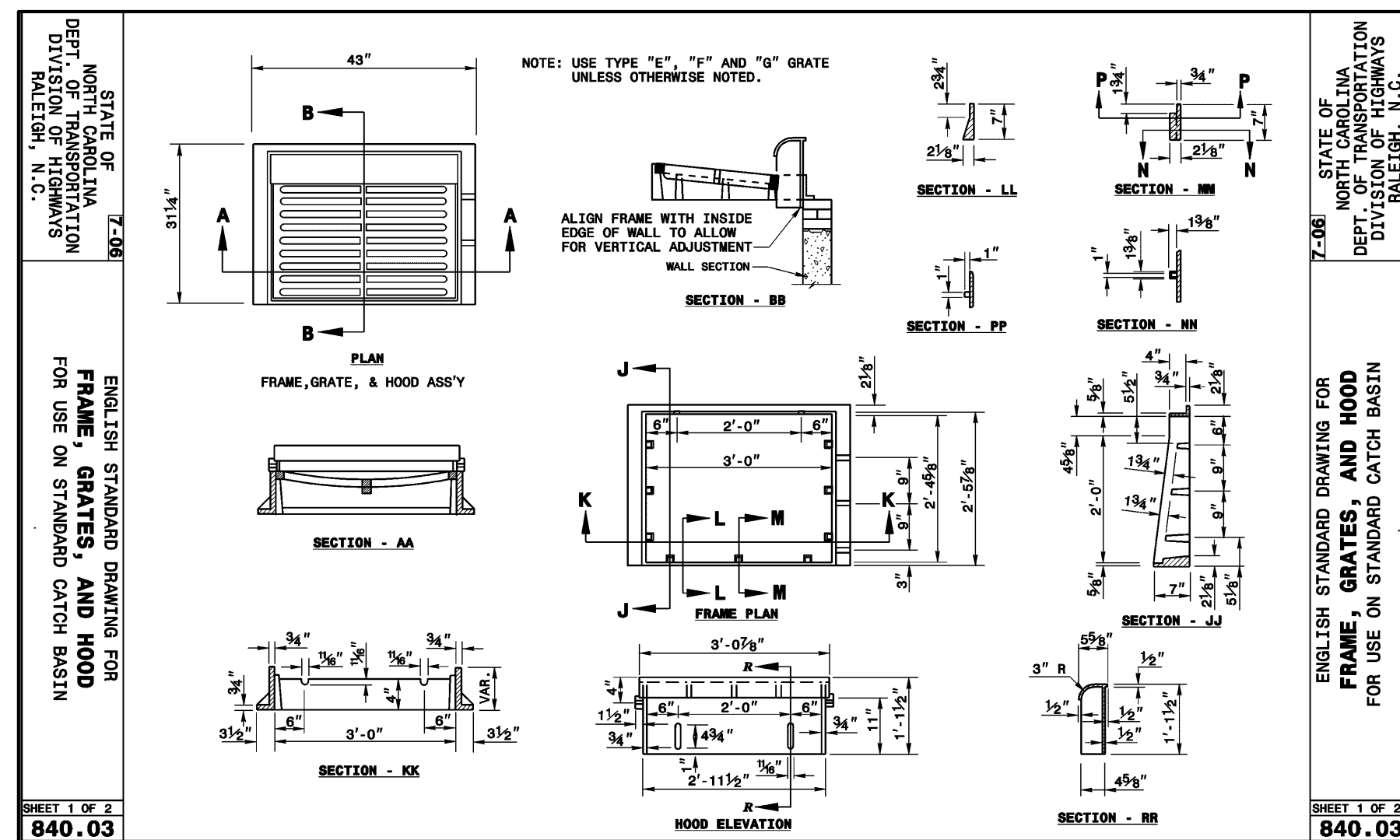
Seal of Donald L. Curry, Professional Engineer, State of North Carolina, License No. 14793. Date: 7/20/2022.



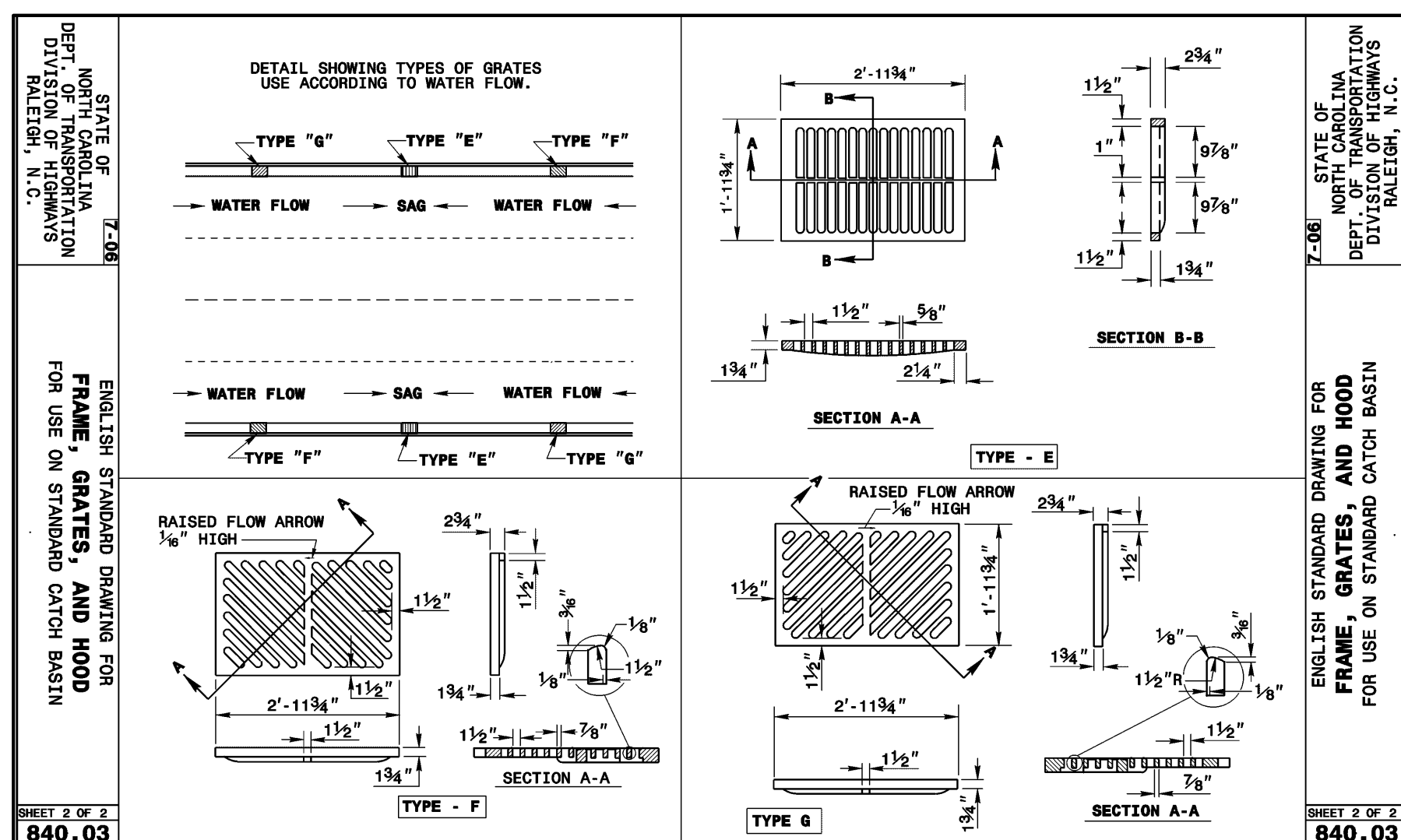
1 CONCRETE CATCH BASIN 1 OF 2
D-04 SCALE: NTS



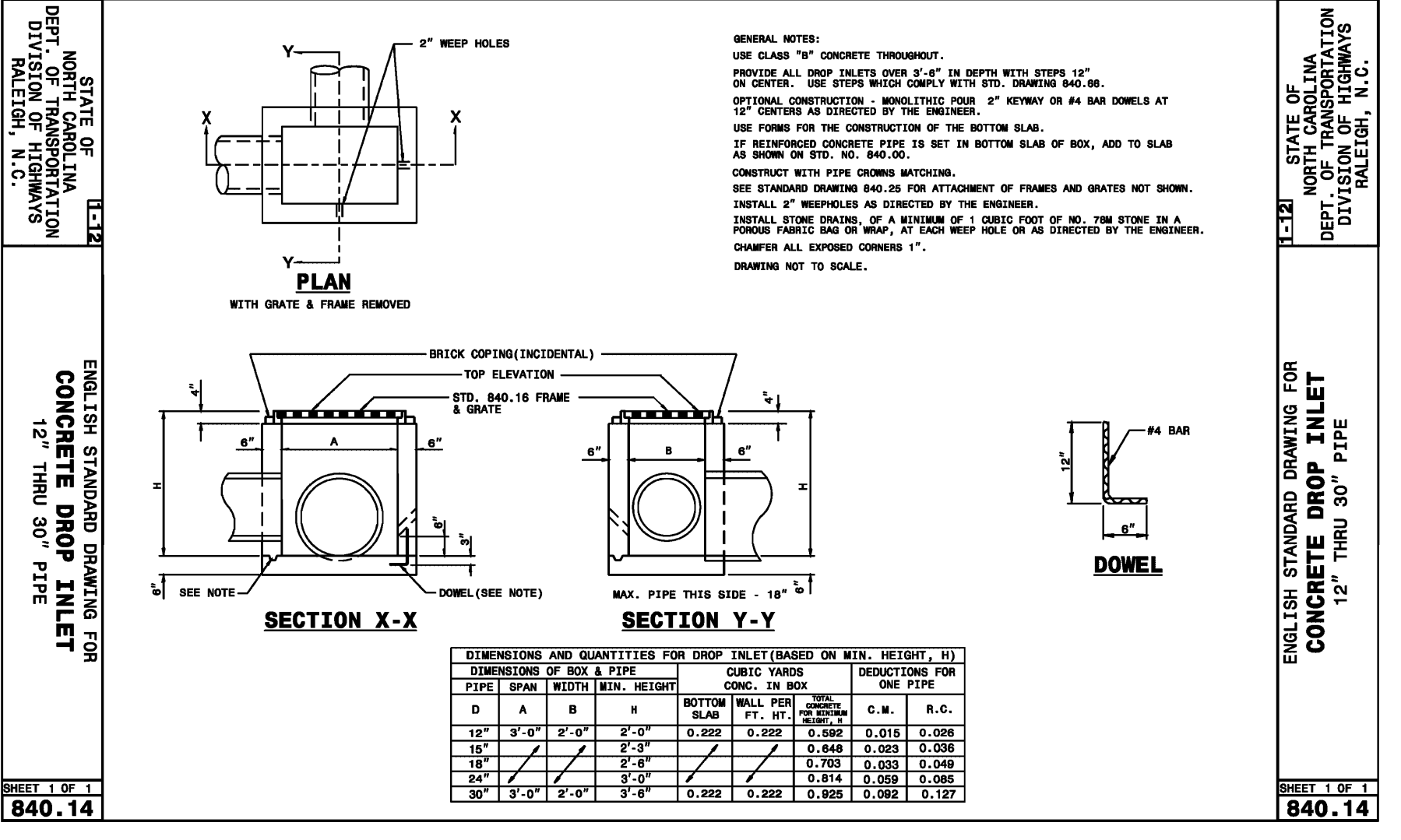
2 CONCRETE CATCH BASIN 2 OF 2
D-04 SCALE: NTS



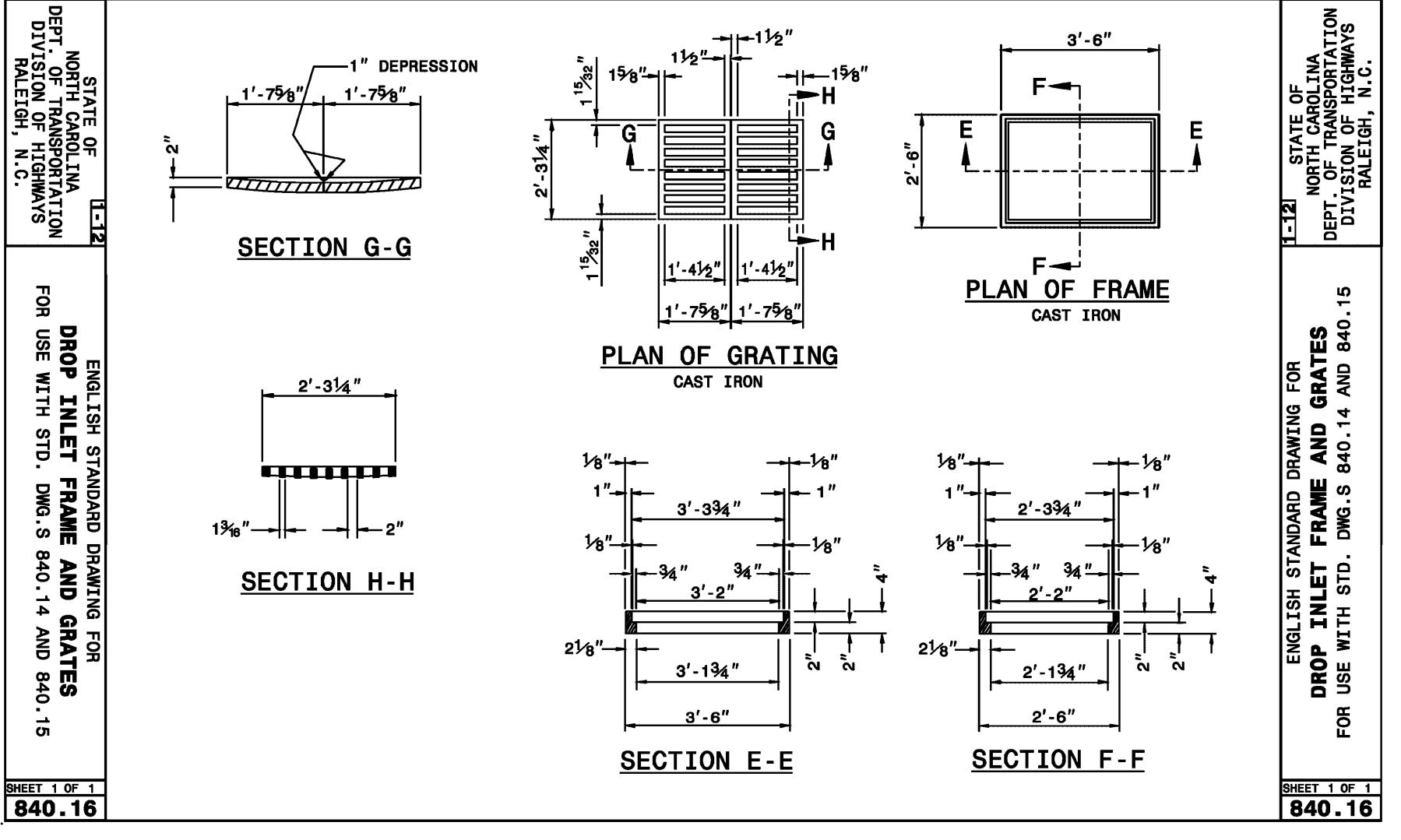
3 FRAME, GRATES, AND HOOD 1 OF 2
D-04 SCALE: NTS



4 FRAME, GRATES, AND HOOD 2 OF 2
D-04 SCALE: NTS



5 CONCRETE DROP INLET
D-04 SCALE: NTS



6 DROP INLET FRAME & GRATE
D-04 SCALE: NTS



7 FLARED END SECTION
D-04 SCALE: NTS

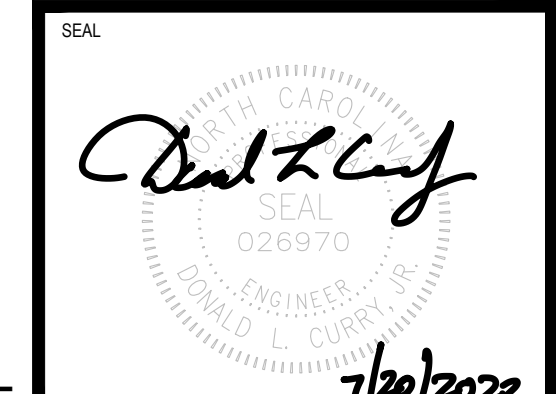
LAKESIDE SELF-STORAGE - HARNETT COUNTY STORM DRAINAGE DETAILS

T (919) 552-5849
F (919) 552-5043
208 S. Fidelity Avenue
Fayetteville, NC 27808



REV.	DATE	BY	CHK.	DESCRIPTION
1	10/02/2021	AMBER KANSITE	WILL GUYTON	MARKET COUNTY COMMENTS
2	2/17/2022	AMBER KANSITE	WILL GUYTON	HARNETT COUNTY COMMENTS
3	2/17/2022	AMBER KANSITE	WILL GUYTON	MARKET COUNTY COMMENTS
4	5/17/2022	AMBER KANSITE	WILL GUYTON	MARKET COUNTY COMMENTS

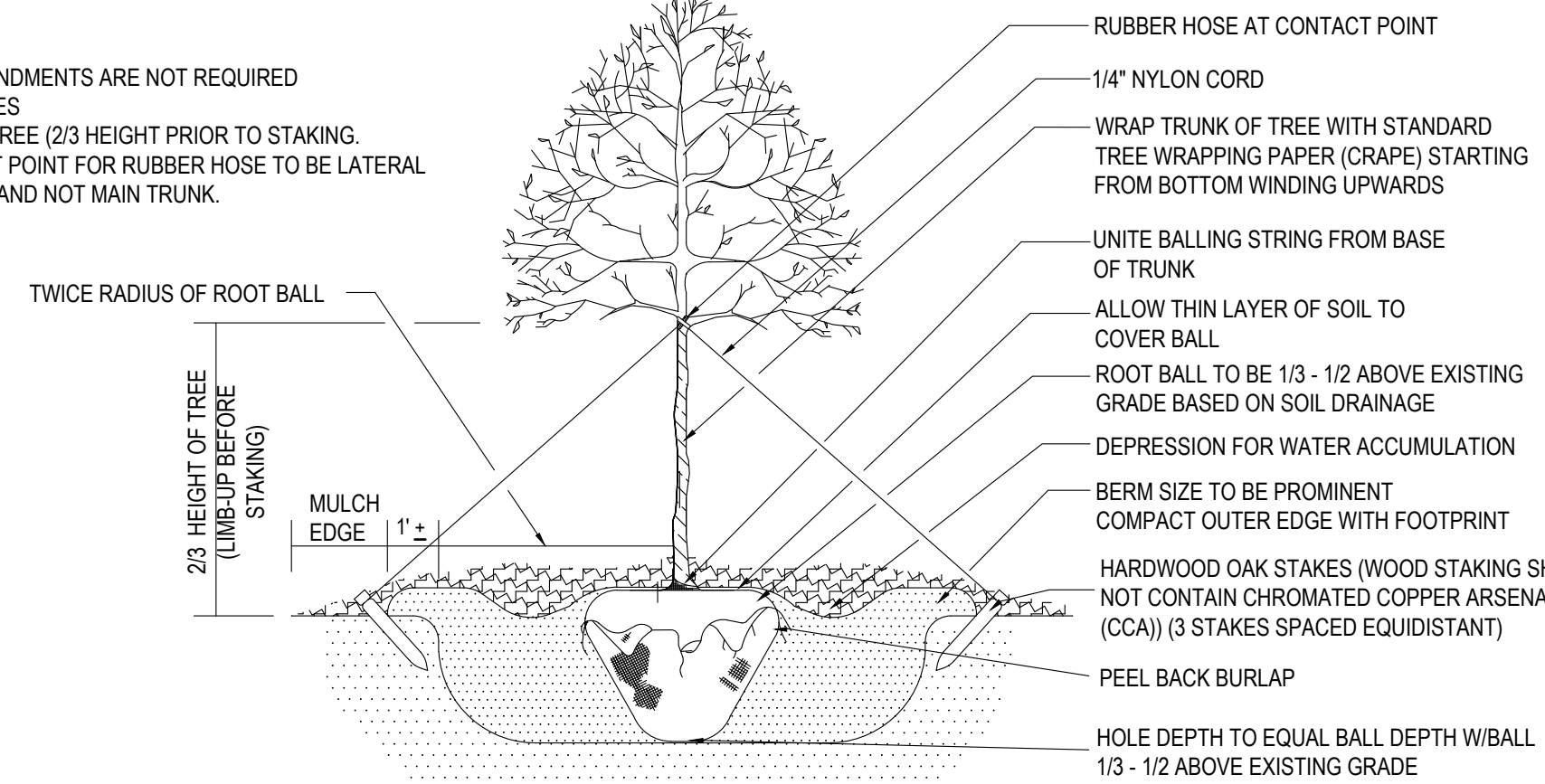
DATE: 7/20/2022
FILE NO.: 2020-023
HORIZ SCALE: NONE
VERT SCALE: 2/4" = 3'



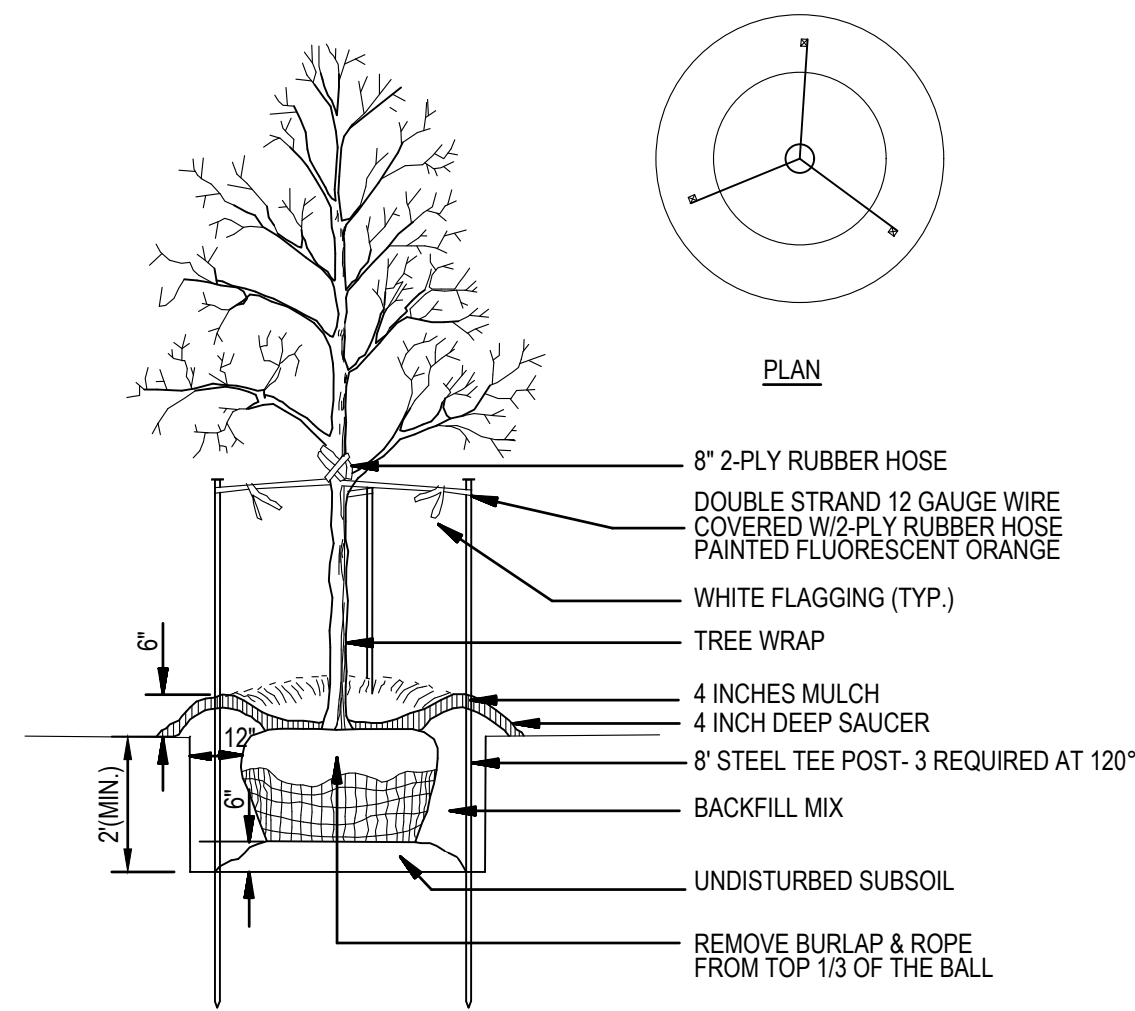
7/20/2022

D-04

- SOIL AMENDMENTS ARE NOT REQUIRED FOR TREES
- LIMP UP TREE (2/3 HEIGHT PRIOR TO STAKING. CONTACT POINT FOR RUBBER HOSE TO BE LATERAL BRANCH AND NOT MAIN TRUNK.

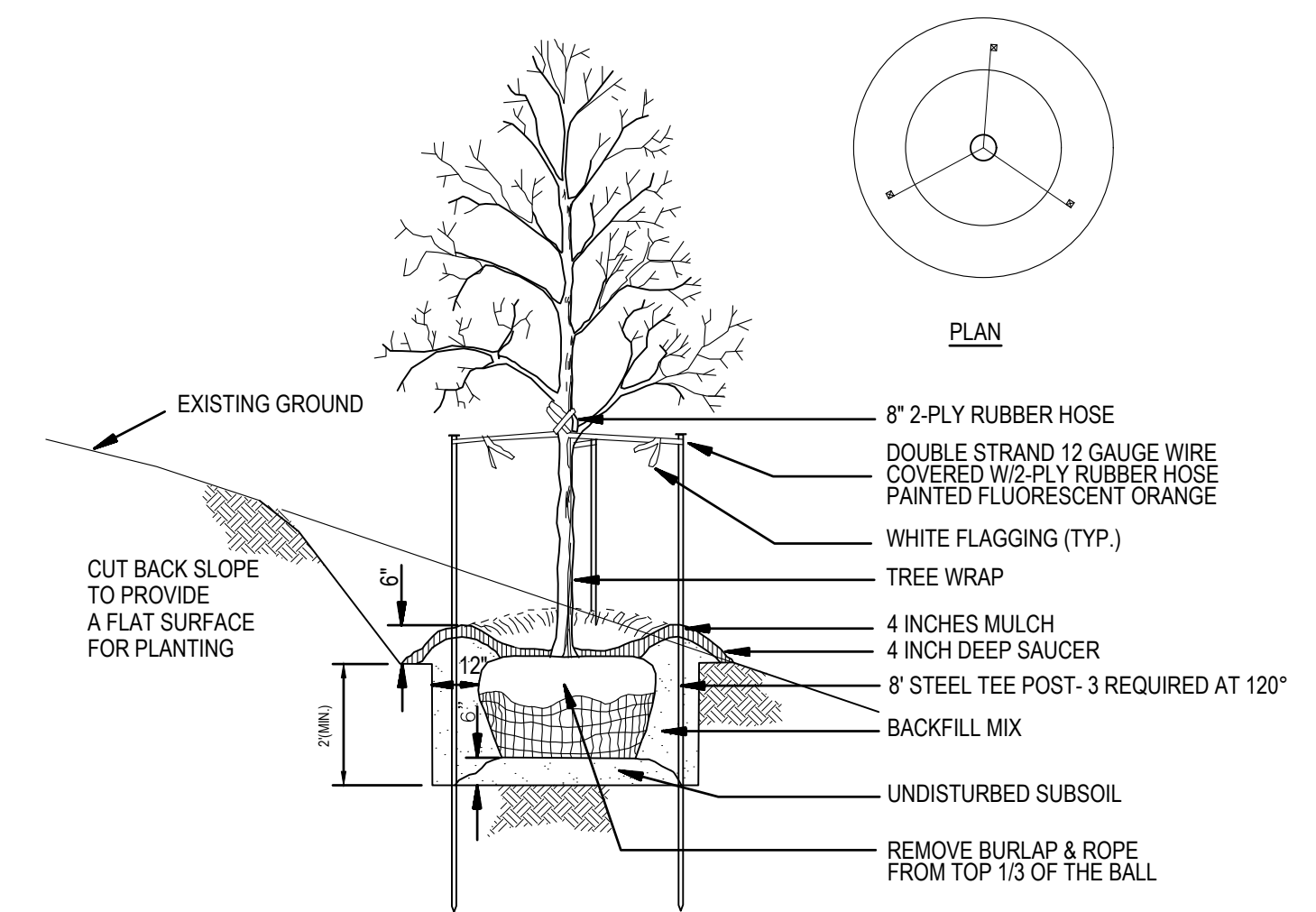


1 TREE STAKING & PLANTING DETAIL
D-05 SCALE: NTS



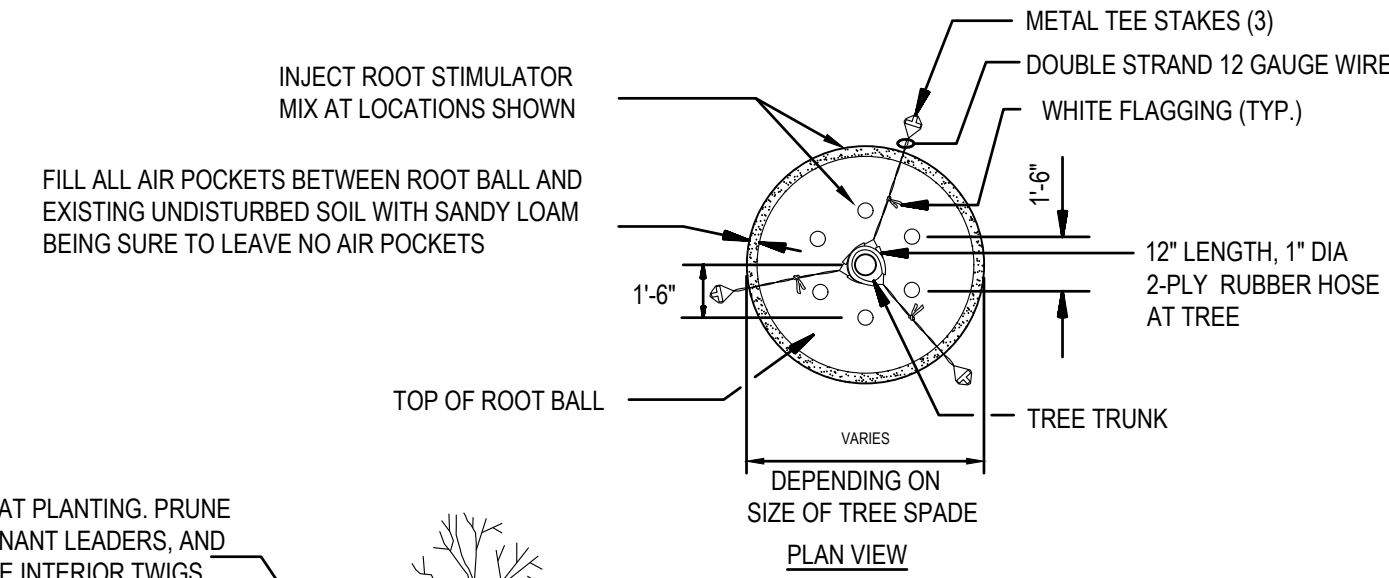
NOTE: SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.

2 TREE PLANTING
D-05 SCALE: NTS

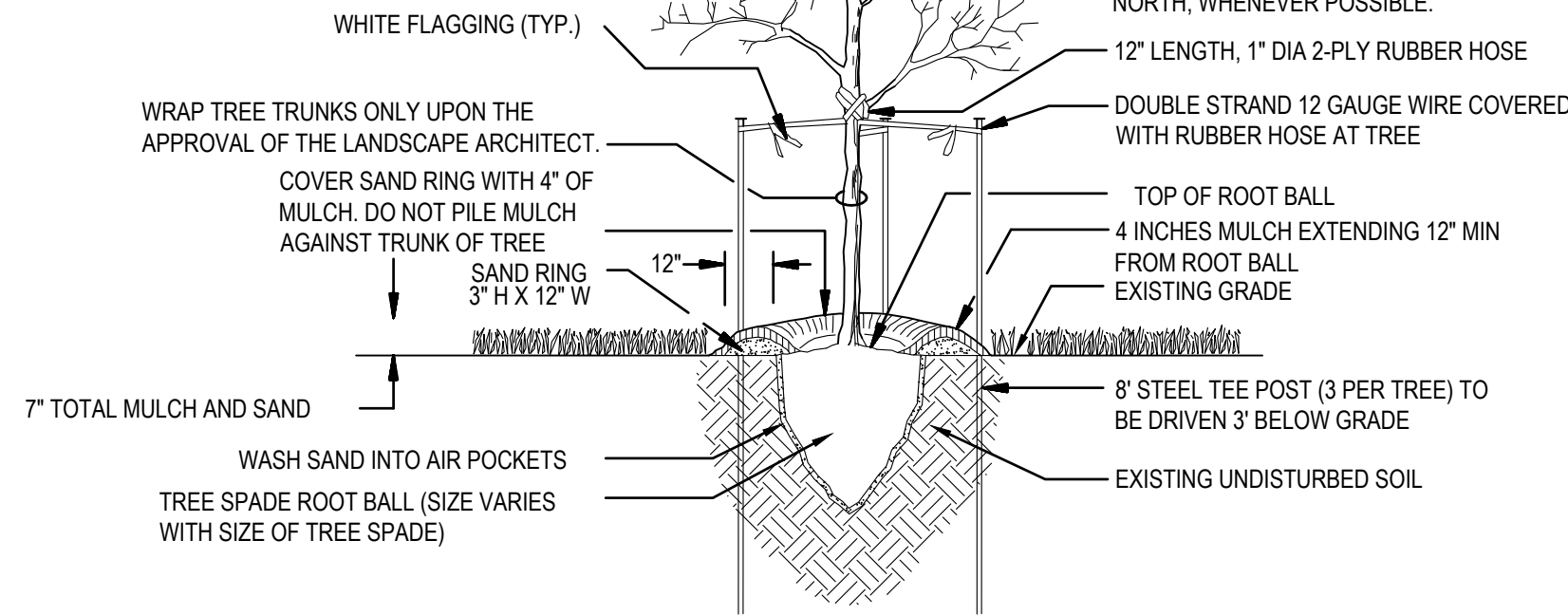


NOTE: SEE LANDSCAPE NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.

3 TREE PLANTING ON SLOPE
D-05 SCALE: NTS

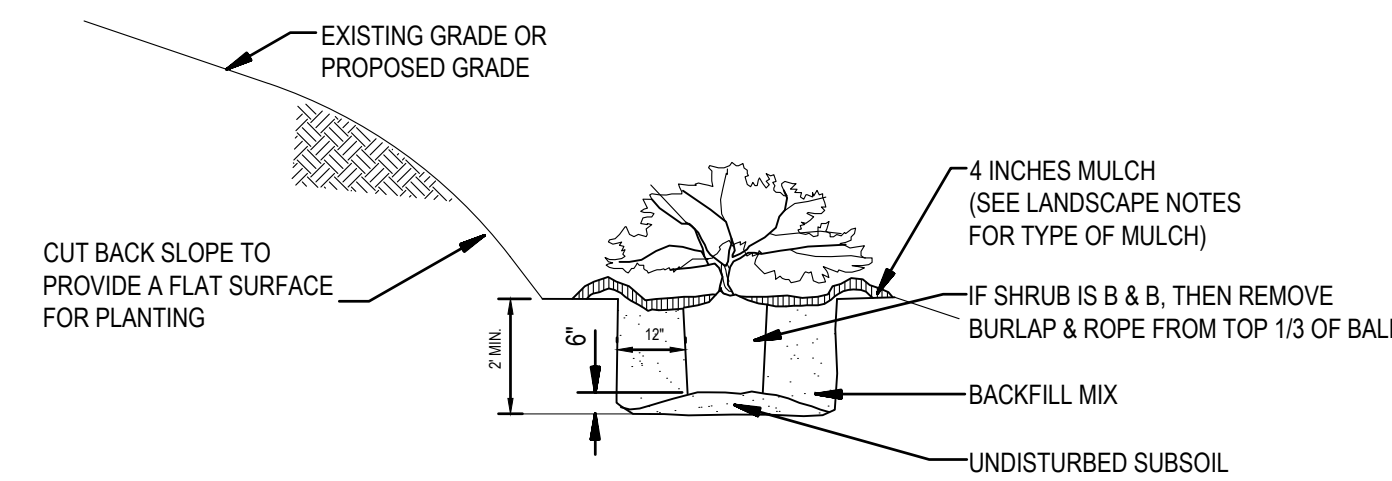


DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED; HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN. STAKE TREES ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT

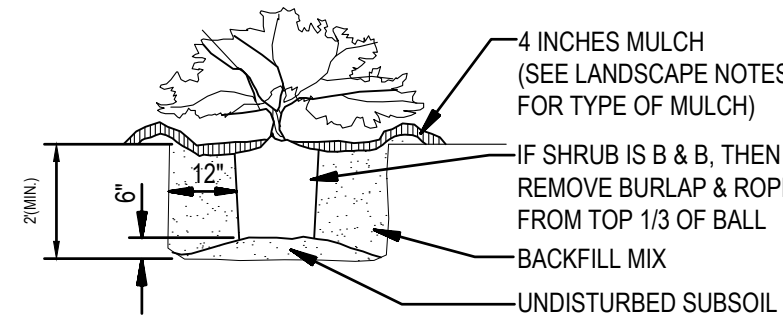


NOTE: PLANT TREE 2\"/>

4 MACHINE DUG TREE PLANTING
D-05 SCALE: NTS



5 SHRUB PLANTING ON SLOPE
D-05 SCALE: NTS



5 SHRUB PLANTING
D-05 SCALE: NTS

- NOTE:
1. PLANT TREES WITH A MINIMUM CALIPER OF TWO INCHES MEASURED SIX INCHES ABOVE THE GROUND AND A ROOT BALL NO SMALLER THAN TWO FEET IN DIAMETER AND 16 INCHES IN DEPTH.
 2. THE BEST TIMES FOR PLANTING ARE EARLY SPRING AND EARLY FALL. TREES PLANTED IN IN THE SUMMER RUN THE RISK OF DEHYDRATION.
 3. PLANT ALL TREES AT LEAST THREE-AND-A-HALF FEET FROM THE END OF HEAD-IN PARKING SPACES IN ORDER TO PREVENT DAMAGE FROM CAR OVERHANGS.
 4. DIG THE TREE PIT AT LEAST TWO FOOT WIDER THAN THE ROOT BALL AND AT LEAST SIX INCHES DEEPER THAN THE BALL VERTICAL DIMENSION.
 5. ESPECIALLY IN AREAS WHERE CONSTRUCTION ACTIVITY HAS COMPACTED THE SOIL, THE BOTTOM OF THE PIT SHOULD BE SCARIFIED OR LOOSENED WITH A PICK AX OR SHOVEL.
 6. AFTER THE PIT IS DUG, OBSERVE SUB-SURFACE DRAINAGE CONDITIONS. WHERE POOR DRAINAGE EXISTS, THE TREE PIT SHOULD BE DUG AT LEAST AN ADDITIONAL TWELVE INCHES WIDER AND THE SOIL AMENDED TO ALLOW ROOTS GROW PROPERLY.
 7. BACKFILL SHOULD INCLUDE A PROPER MIX OF SOIL AND FERTILIZER. ALL ROOTS MUST BE COMPLETELY COVERED. BACKFILL SHOULD BE THOROUGHLY WATERED AS IT IS PLACED AROUND THE ROOTS.
 8. IMMEDIATELY AFTER IT IS PLANTED, THE TREE SHOULD BE SUPPORTED WITH STAKES AND STRAPS TO FIRMLY HOLD IT IN PLACE AS ITS ROOT SYSTEM BEGINS TO DEVELOP. REMOVE STAKES AND TIES AFTER ONE YEAR.
 9. SPREAD AT LEAST THREE INCHES OF MULCH OVER THE ENTIRE EXCAVATION IN ORDER TO RETAIN MOISTURE AND KEEP DOWN WEEDS. AN ADDITIONAL THREE-INCH SAUCER AND MULCH SHOULD BE PROVIDED TO FORM A BASIN AROUND THE TRUNK OF THE TREE. THIS SAUCER HELPS CATCH AND RETAIN MOISTURE.
 10. CONSCIENTIOUS POST-PLANTING CARE, ESPECIALLY WATERING, PRUNING AND FERTILIZING, IS A MUST FOR STREET AND PARKING LOT TREES. PRUNE OFF BROKEN OR DAMAGED BRANCHES.

P:\\WORK\\645116\\645116.DWG: 2/20/2022 9:53 AM: 44823834-20220203-03 BRAMCHEN JONES: 5556: NC 210 - AMBERJAANSITE\\P\\LANDSCAPE\\D-05 LANDSCAPE DETAIL.DWG
 PLOTTED: 7/20/2022 9:53 AM

SEAL

 DONALD L. CURRY
 ENGINEER
 026970
 7/20/2022

Curry
 ENGINEERING
 D-05

LAKESIDE SELF-STORAGE - HARNETT COUNTY
LANDSCAPE DETAILS

REVISONS	
1	10/20/2021 HARNETT COUNTY COMMENTS
2	2/17/2022 HARNETT & KIMBERLY COMMENTS
3	5/17/2022 NOOT COMMENTS #2
4	5/17/2022 NOOT COMMENTS #2
DATE: 7/20/2022	
FILE NO: 20220203	
HORZ SCALE: NONE	
VERT SCALE: 1" = 4'-0"	

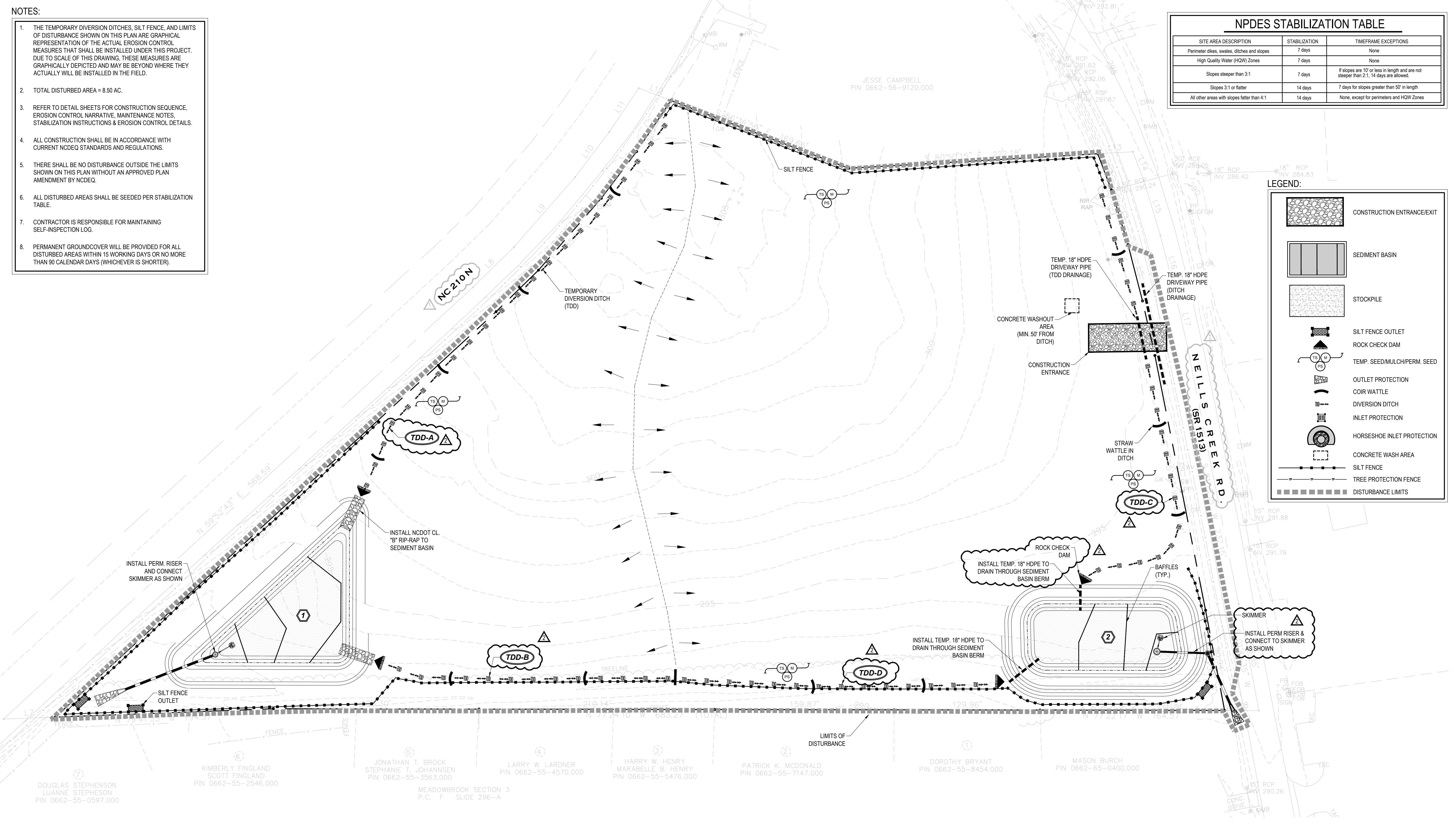
NOTES:

1. THE TEMPORARY DIVERSION DITCHES, SILT FENCE, AND LIMITS OF DISTURBANCE SHOWN ON THIS PLAN ARE GRAPHICAL REPRESENTATION OF THE ACTUAL EROSION CONTROL MEASURES THAT SHALL BE INSTALLED UNDER THIS PROJECT. DUE TO SCALE OF THIS DRAWING, THESE MEASURES ARE GRAPHICALLY DEPICTED AND MAY BE BEYOND WHERE THEY ACTUALLY WILL BE INSTALLED IN THE FIELD.
2. TOTAL DISTURBED AREA = 8.50 AC.
3. REFER TO DETAIL SHEETS FOR CONSTRUCTION SEQUENCE, EROSION CONTROL NARRATIVE, MAINTENANCE NOTES, STABILIZATION INSTRUCTIONS & EROSION CONTROL DETAILS.
4. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT NCDEQ STANDARDS AND REGULATIONS.
5. THERE SHALL BE NO DISTURBANCE OUTSIDE THE LIMITS SHOWN ON THIS PLAN WITHOUT AN APPROVED PLAN AMENDMENT BY NCDEQ.
6. ALL DISTURBED AREAS SHALL BE SEEDED PER STABILIZATION TABLE.
7. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING SELF-INSPECTION LOG.
8. PERMANENT GROUND COVER WILL BE PROVIDED FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR NO MORE THAN 90 CALENDAR DAYS (WHICHEVER IS SHORTER).

NPDES STABILIZATION TABLE		
SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
Perimeter dikes, swales, ditches and 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

LEGEND:

- CONSTRUCTION ENTRANCE/EXIT
- SEDIMENT BASIN
- STOCKPILE
- SILT FENCE OUTLET
- ROCK CHECK DAM
- TEMP. SEED/MULCH/PERM. SEED
- OUTLET PROTECTION
- COIR WATTLE
- DIVERSION DITCH
- INLET PROTECTION
- HORSESHOE INLET PROTECTION
- CONCRETE WASH AREA
- SILT FENCE
- TREE PROTECTION FENCE
- DISTURBANCE LIMITS



TEMPORARY DIVERSION DITCH SCHEDULE									
DITCH DESIGNATION	DRAINAGE AREA (AC)	RUNOFF COEFFICIENT	Q10 (CFS)	AVG. SLOPE (%)	FLOW DEPTH (FT)	VELOCITY (FPS)	SHAPE	GEOMETRY (FT)	LINING MATERIAL
A	0.61	0.50	2.18	2.7%	0.44	1.74	TRAPEZOIDAL	b=2', d=18", m=2:1	STRAW w/ NET
B	1.49	0.50	5.30	0.5%	0.76	1.99	TRAPEZOIDAL	b=2', d=18", m=2:1	STRAW w/ NET
C	2.30	0.50	8.15	0.5%	0.94	2.24	TRAPEZOIDAL	b=2', d=18", m=2:1	STRAW w/ NET
D	2.07	0.50	7.36	0.5%	0.89	2.18	TRAPEZOIDAL	b=2', d=18", m=2:1	STRAW w/ NET

SKIMMER SEDIMENT BASIN 1

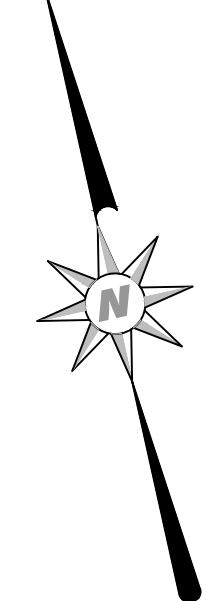
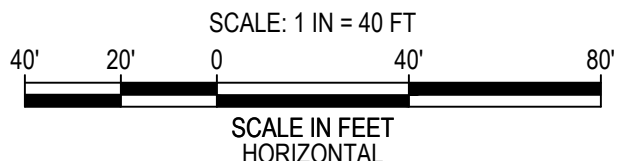
MINIMUM DEPTH: 2'0"
 VOLUME REQUIRED = 4,983 CF
 SURFACE AREA REQUIRED = 4,275 SF
 SURFACE AREA PROVIDED = 8,930 SF
 TOP OF BASIN ELEVATION = 295.00
 SURFACE AREA ELEVATION = 293.00
 BOTTOM OF BASIN ELEVATION = 291.00
 CLEANOUT ELEVATION = 292.00

EMERGENCY SPILLWAY LENGTH = 15'
 EMERGENCY SPILLWAY ELEVATION = 294.00
 SKIMMER SIZE = 2 INCH, 1.75 INCH ORIFICE
 DEWATERING TIME = 3.05 DAYS

SKIMMER SEDIMENT BASIN 2

MINIMUM DEPTH: 2'0"
 VOLUME REQUIRED = 8,773 CF
 SURFACE AREA REQUIRED = 7,526 SF
 SURFACE AREA PROVIDED = 7,744 SF
 TOP OF BASIN ELEVATION = 294.00
 SURFACE AREA ELEVATION = 294.00
 BOTTOM OF BASIN ELEVATION = 292.00
 CLEANOUT ELEVATION = 293.00

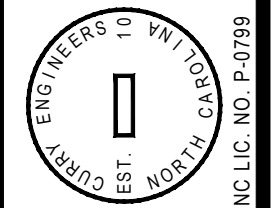
EMERGENCY SPILLWAY LENGTH = 20'
 EMERGENCY SPILLWAY ELEVATION = 295.00
 SKIMMER SIZE = 3 INCH, 1.75 INCH ORIFICE
 DEWATERING TIME = 4.28 DAYS



Seal of the Professional Engineer, Jonathan L. Curry, State of North Carolina, License No. 026970.

**LAKESIDE SELF-STORAGE - HARNETT COUNTY
 EROSION CONTROL PLAN - INITIAL PHASE**

208 S. Fidelity Avenue
 Faison, Virginia, NC 27008
 T (919) 562-9849
 F (919) 562-2043



Curry
 ENGINEERING

EC-01

REVISIONS

NO.	DATE	DESCRIPTION
1	10/02/2021	HARNETT COUNTY COMMENTS
2	2/17/2022	HARNETT COUNTY COMMENTS
3	5/17/2022	HARNETT COUNTY COMMENTS
4	5/17/2022	HARNETT COUNTY COMMENTS

DATE: 7/20/2022
 FILE NO.: 2020-023
 HORIZ. SCALE: 1"=40'
 ORIG. SHEET SIZE: 24" x 36"

P:\WORK\2022\EROSION CONTROL\20220203\20220203\EROSION CONTROL PLAN - INITIAL PHASE.DWG

NOTES:

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Slopes 3:1 or flatter	14 days	7 days for slopes greater than 50' in length
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WEST DITCH-B
V-DITCH, M=3:1
Q10=0.61 CFS
V10=1.34 FPS
NO PERM. LINER NEEDED
INSTALL SYNTHETIC MAT
AS TEMP LINER
IMMEDIATELY UPON
CONSTRUCTION

NORTH DITCH-A
V-DITCH, M=3:1
Q10=1.43 CFS
V10=1.90 FPS
NO PERM. LINER NEEDED
INSTALL SYNTHETIC MAT
AS TEMP LINER
IMMEDIATELY UPON
CONSTRUCTION

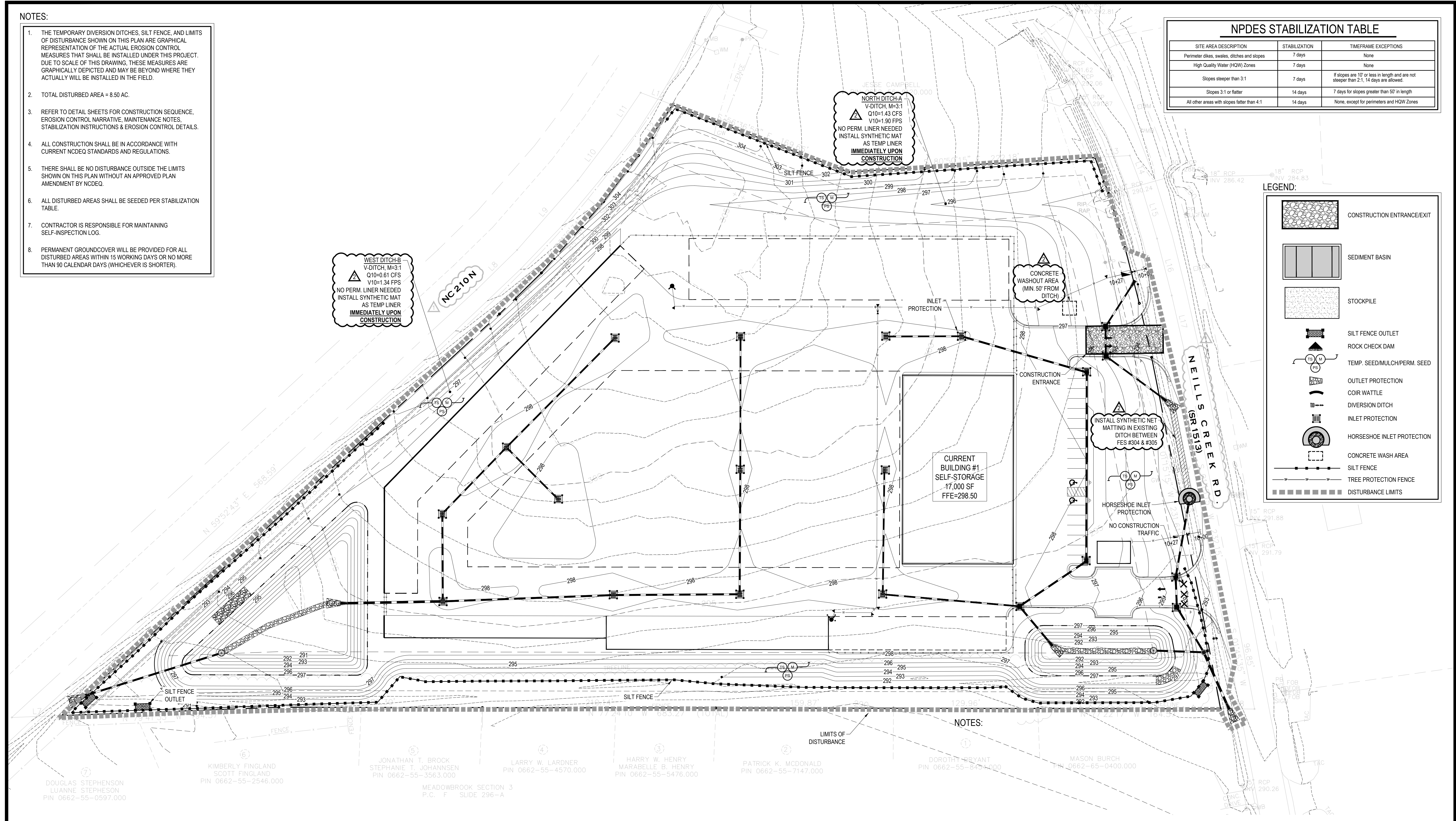
CONCRETE WASHOUT AREA
(MIN. 50' FROM DITCH)

INSTALL SYNTHETIC NET MATTING
IN EXISTING DITCH BETWEEN
FES #304 & #305

CURRENT BUILDING #1
SELF-STORAGE
17,000 SF
FFE=298.50

LEGEND:

- CONSTRUCTION ENTRANCE/EXIT
- SEDIMENT BASIN
- STOCKPILE
- SILT FENCE OUTLET
- ROCK CHECK DAM
- TEMP. SEED/MULCH/PERM. SEED
- OUTLET PROTECTION
- COIR WATTLE
- DIVERSION DITCH
- INLET PROTECTION
- HORSESHOE INLET PROTECTION
- CONCRETE WASH AREA
- SILT FENCE
- TREE PROTECTION FENCE
- DISTURBANCE LIMITS



NOTES:

DOUGLAS STEPHENSON
LUANNE STEPHENSON
PIN 0662-55-0597.000

KIMBERLY FINGLAND
SCOTT FINGLAND
PIN 0662-55-2546.000

JONATHAN T. BROCK
STEPHANIE T. JOHANNSEN
PIN 0662-55-3563.000

LARRY W. LARDNER
PIN 0662-55-4570.000

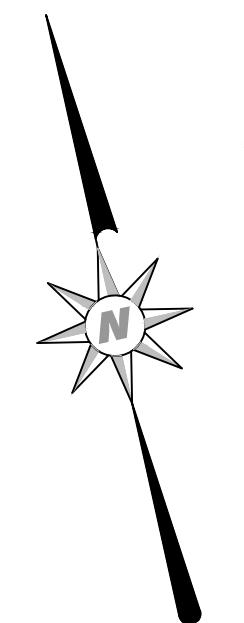
HARRY W. HENRY
MARABELLE B. HENRY
PIN 0662-55-5478.000

PATRICK K. McDONALD
PIN 0662-55-7147.000

DOROTHY TRYANT
PIN 0662-55-8454.000

MASON BURCH
PIN 0662-65-0400.000

MEADOWBROOK SECTION 3
P.C. F. SLIDE 296-A



BEFORE YOU DIG
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NORTH CAROLINA
ONE-CALL CENTER

SCALE: 1 IN = 40 FT
SCALE IN FEET
HORIZONTAL

Donald L. Curry
DONALD L. CURRY
ENGINEER
026970
7/20/2022

Curry
ENGINEERING
EC-02

LAKESIDE SELF-STORAGE - HARNETT COUNTY
EROSION CONTROL PLAN - CONSTRUCTION PLAN

208 S. Fidelity Avenue
Fayetteville, NC 27808
T (919) 562-9849
F (919) 562-9043

ENGINEER'S SEAL
DONALD L. CURRY
026970
7/20/2022

REVISIONS
1 10/02/2021 HARNETT COUNTY COMMENTS
2 20/07/2022 HARNETT COUNTY COMMENTS
3 20/07/2022 HARNETT COUNTY COMMENTS
4 07/20/2022 HARNETT COUNTY COMMENTS

DATE: 7/20/22
FILE NO.: 2020-023
HORIZ SCALE: 1"=40'
VERT SCALE: 1"=4'
ORIG SHEET SIZE: 24x36

EROSION CONTROL NOTES

- 1. THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS.
2. TOTAL DISTURBANCE LIMITS = 8.50 ACRES.
3. ANY GRADING BEYOND THE DENUDED LIMITS SHOWN IN THE PLAN IS A VIOLATION OF THE NORTH CAROLINA SEDIMENTATION CONTROL LAW & IS SUBJECT TO A FINE.
4. GRADING MORE THAN 1 ACRE WITHOUT AN APPROVED EROSION CONTROL PLAN IS A VIOLATION OF THE THE NORTH CAROLINA SEDIMENTATION CONTROL LAW AND IS SUBJECT TO A FINE.
5. ALL EROSION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH ALL NCDENR STANDARDS AND SPECIFICATIONS.
8. CONSTRUCTION ENTRANCES SHALL BE MAINTAINED THROUGHOUT THE ENTIRE CONSTRUCTION PROJECT. A MINIMUM OF ONE CONSTRUCTION ENTRANCE SHALL BE INSTALLED AND UTILIZED. THIS ENTRANCE SHALL BE BETWEEN THE LIMITS OF DISTURBANCE AND ANY ROAD RIGHT OF WAY.
9. ADJACENT PROPERTIES AND RIGHT-OF-WAY SHALL BE KEPT FREE OF MUD AND/OR SEDIMENT-LADEN RUNOFF.
10. THE EROSION CONTROL MEASURES SHOWN ON THIS PLAN ARE RECOMMENDED AS A MINIMUM IN ORDER TO CONTROL RUN-OFF. IT IS POSSIBLE THAT MORE STRINGENT MEASURES MAY BE NEEDED AS DETERMINED BY THE CONTRACTOR, PROJECT ENGINEER, AND/OR EROSION CONTROL INSPECTOR. IF IT IS DETERMINED THAT ADDITIONAL RUN-OFF CONTROL IS NEEDED, SUCH MEASURES SHALL BE INSTALLED IMMEDIATELY.
11. SHOULD MAINTENANCE ISSUES ARISE, PLEASE CONTACT JOHN AUTON AT 919-369-9872.
12. CONTRACTOR SHALL LOCATE AND VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK.

EROSION & SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION

THE PURPOSE OF THIS PROJECT IS TO CLEAR & GRUB AND MASS GRADING FOR A SELF-STORAGE FACILITY. THE PROPERTY IS PRIVATELY OWNED. SEE OWNER INFORMATION ON EXISTING CONDITIONS PLAN. THE SITE IS CURRENTLY UNDEVELOPED.

APPROXIMATELY 8.50 ACRES WILL BE DISTURBED DURING CONSTRUCTION. THE MAXIMUM FILL WILL BE APPROX. 6 FEET AND THE MAXIMUM CUT WILL BE APPROX. 6 FEET. THIS PROJECT WILL INVOLVE REMOVAL OF TOPSOIL AND WIDESPREAD EARTHWORK TO FACILITATE INFRASTRUCTURE INSTALLATION TO SERVE THE FACILITY. AN UNDERGROUND STORM DRAINAGE SYSTEM WILL BE INSTALLED TO CONVEY STORMWATER TO PERMANENT STORMWATER MANAGEMENT AREAS.

THE PROJECT IS SCHEDULED TO BEGIN CONSTRUCTION IN LATE FALL 2021 WITH PROJECT COMPLETION AND FINAL STABILIZATION BY SPRING 2022. THE EROSION AND SEDIMENT CONTROL PROGRAM FOR THIS PROJECT WILL INCLUDE THE INSTALLATION OF A SUITABLE CONSTRUCTION ENTRANCE, TEMPORARY SILT FENCING, SILT FENCE OUTLETS, DIVERSION DITCHES, INLET PROTECTION MEASURES AND SEDIMENT BASINS.

ADJACENT PROPERTY

ADJACENT PROPERTY OWNERS ARE NOTED ON THE EXISTING CONDITIONS PLAN.

NATIVE SOILS

THE SOILS AT THIS SITE ARE PREDOMINATELY LOAMY SANDS. SOILS ARE MOSTLY WELL DRAINED WITH Ksat RANGES FROM MODERATELY HIGH TO HIGH. SLOPES ARE LARGELY BETWEEN 0 TO 6%. SOILS ONSITE ARE FLOUQUAY (FaB) AND DOTHAM LOAMY SANDS (DoB).

CONSTRUCTION SEQUENCE:

- 1. OBTAIN A LAND-DISTURBING PERMIT FROM NCDENR.
2. SCHEDULE A PRECONSTRUCTION CONFERENCE WITH NCDENR AT LEAST ONE WEEK PRIOR TO START OF LAND DISTURBANCE.
3. CLEAR THE AREA NEEDED TO CONSTRUCT THE PROPOSED CONSTRUCTION ENTRANCE.
4. CONSTRUCT THE ENTRANCE AS SHOWN ON THE PLANS. MAINTAIN THE CONSTRUCTION ENTRANCE DAILY TO ENSURE THAT MUD AND SILT WILL NOT BE TRACKED ONTO THE PAVED SURFACE. IF MUD IS TRACKED ONTO THE SURFACE, IT IS TO BE REMOVED IMMEDIATELY.
5. CLEAR THE AREA NEEDED TO CONSTRUCT THE REMAINDER OF PERIMETER EROSION CONTROL MEASURES INCLUDING SILT FENCE, ROCKS CHECK DAMS, TEMPORARY DIVERSIONS, SKIMMER BASIN, AND OTHER MEASURES AS SHOWN ON THE APPROVED PLAN. INSTALL PROPOSED DEVICES. SEED TEMPORARY DIVERSIONS, BERMS AND BASINS IMMEDIATELY AFTER CONSTRUCTION.
6. CLEAR AND INSTALL THE SKIMMER SEDIMENT BASIN. INSTALL COIR MESH BAFFLES, SKIMMER DEVICES, AND OTHER FEATURES AND STABILIZE IMMEDIATELY AFTER CONSTRUCTION. THE PERMANENT RISER STRUCTURES FOR THE FUTURE WET DETENTION BASINS SHALL BE INSTALLED AT THIS TIME.
7. CALL NCDENR FOR AN ONSITE INSPECTION BY THE ONSITE INSPECTOR TO OBTAIN A CERTIFICATE OF COMPLIANCE.
8. BEGIN CLEARING AND GRUBBING. MAINTAIN DEVICES AS NEEDED.
9. ROUGH GRADE PARKING LOT, DRIVEWAY, AND GENERAL SITE.
10. CONSTRUCT UTILITIES THROUGHOUT PROJECT.
11. INSTALL STORM SEWER, AND PROTECT INLETS WITH BLOCK AND GRAVEL INLET CONTROLS, SEDIMENT TRAPS OR OTHER APPROVED MEASURES AS SHOWN ON THE PLAN.
12. CONTINUE WITH MASS GRADING OF SITE AND BEGIN CONSTRUCTION, BUILDING, ETC.
13. STABILIZE SITE AS AREAS ARE BROUGHT UP TO FINISH GRADE WITH VEGETATION, PLANTING, DITCH LININGS, ETC. SEED AND MULCH DENUDED AREAS WITHIN 7 OR 14 DAYS OF COMPLETION OF ANY PHASE OF CONSTRUCTION.
14. WHEN CONSTRUCTION IS COMPLETE AND ALL AREAS ARE STABILIZED COMPLETELY, CALL NCDENR ON SITE INSPECTOR.
15. IF SITE IS APPROVED AND ALL UPSTREAM AREAS ARE STABILIZED, REMOVE TEMPORARY DIVERSIONS, SILT FENCE, SEDIMENT BASINS, ETC., AND SEED OUT OR STABILIZE ANY RESULTING BARE AREAS. EXISTING STORM DRAINAGE SYSTEM SHALL BE CLEANED OF ANY SEDIMENT.
16. GRADE BMP AND REMOVE SKIMMER. STABILIZE ALL GRADING FROM BMP EXCAVATION.
17. WHEN VEGETATION HAS BECOME ESTABLISHED, CALL FOR A FINAL SITE INSPECTION BY THE ONSITE INSPECTOR. OBTAIN A CERTIFICATE OF COMPLETION.
18. SUBMIT NOTICE OF TERMINATION TO NCDENR.
19. INSPECTOR REFERS TO NORTH CAROLINA LAND QUALITY INSPECTOR OR HIS REPRESENTATIVE. FIELD INSPECTIONS MAY REQUIRE ADDITIONAL SEDIMENTATION AND EROSION CONTROL MEASURES AS DEEMED NECESSARY BY THE INSPECTOR.
20. CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL DEVICES SHALL CONFORM TO THE STANDARDS SET FORTH IN THE NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES LAND QUALITY SECTION: EROSION AND DESIGN MANUAL.
21. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF EROSION CONTROL MEASURES DURING CONSTRUCTION AND THE OWNER IS RESPONSIBLE FOR ALL PERMANENT EROSION CONTROL METHODS AFTER CONSTRUCTION IS COMPLETE, IF ANY PERMANENT METHODS ARE REQUIRED.

MAINTENANCE/INSPECTION PROCEDURES

THE FOLLOWING ARE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.

- ALL CONTROL MEASURES WILL BE INSPECTED BY THE SUPERINTENDENT, THE PERSON RESPONSIBLE FOR THE DAY TO DAY SITE OPERATION OR SOMEONE APPOINTED BY THE SUPERINTENDENT, DAILY AND WITHIN 24 HOURS OF EVERY RAINFALL EVENT.
• SILT FENCE & FABRIC INLET PROTECTION: INSPECT FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND. BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.
• DIVERSION DIKES/SWALES: INSPECT AND ANY BREACHES PROMPTLY REPAIRED. SEDIMENT SHALL BE REMOVED FROM THE FLOW AREA IMMEDIATELY AFTER EACH RAINFALL.
• TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT: MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOP-DRESSING WITH 2-3" STONE. AFTER A RAINFALL, IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO ROADWAYS.
• SEDIMENT BASIN: INSPECT AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN IT ACCUMULATES TO ONE-HALF THE DESIGN DEPTH. PLACE REMOVED SEDIMENT IN AN AREA WITH SEDIMENT CONTROLS. CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE RISER AND POOL AREA. REPAIR BAFFLES AND SKIMMERS AS NEEDED.
• INLET PROTECTION: INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT. CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REPLACE STONE AS NEEDED.
• SEEDING, FERTILIZING, AND MULCHING: INSPECT SEEDED AREAS FOR FAILURE AND NECESSARY REPAIRS AND RE-SEEDING SHALL BE MADE WITHIN THE SAME SEASON. TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
• MAINTAIN THE ON-SITE RAIN GAUGE & DATA AND STORMWATER INSPECTION LOG SHEETS. THIS PERMIT INFORMATION MUST BE COLLECTED AND MAINTAINED UNTIL NC DEMLR HAS CLOSED THE PROJECT & SURETY HAS BEEN RELEASED.
• THE CONTACT PERSON IS REQUIRED TO MAINTAIN A LOG OF SELF-INSPECTIONS PER REQUIREMENTS AS OUTLINED IN NCG01000 PERMIT. THE REPORTS WILL BE KEPT ON SITE DURING CONSTRUCTION AND AVAILABLE UPON REQUEST TO THE OWNER, ENGINEER OR ANY FEDERAL, STATE OR LOCAL AGENCY APPROVING SEDIMENT AND EROSION PLANS, OR STORMWATER MANAGEMENT PLANS. THIS PERMIT INFORMATION MUST BE COLLECTED AND MAINTAINED UNTIL NC DEMLR HAS CLOSED THE PROJECT.
• THE SITE SUPERINTENDENT WILL SELECT UP TO THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.
• PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT: THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.
• GROUND STABILIZATION: SOIL STABILIZATION SHALL BE ACHIEVED ON ANY AREA OF A SITE WHERE LAND-DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED ACCORDING TO THE FOLLOWING SCHEDULE:
A. ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.
B. ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS POSSIBLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY

SEDIMENT & EROSION CONTROLS

IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT THE EROSION AND SEDIMENT CONTROLS AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED AND FUNCTIONING PROPERLY TO PREVENT POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR WILL ADJUST THE EROSION CONTROLS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND SEDIMENT CONTROL REQUIREMENTS. ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES BE TO THE STANDARDS OF THE NC DEPT. OF ENVIRONMENTAL MANAGEMENT - LAND QUALITY SECTION, LATEST EDITION.

STRUCTURAL PRACTICES

- 1. SILT FENCE (SEDIMENT FENCE): SILT FENCE CAN BE USED BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION. SILT FENCES SHALL BE PROVIDED WHERE SHOWN AND AS NEEDED ON THE SITE PLAN. THESE BARRIERS SHALL BE USED TO CONTAIN SEDIMENT.
2. SILT FENCE OUTLET: GRAVEL SILT FENCE OUTLETS SHALL BE PROVIDED WHERE SHOWN AND AS NEEDED ON THE SITE PLAN. THESE OUTLETS SHALL BE LOCATED AT ALL LOW POINTS IN A RUN OF SILT FENCE AND USED TO DISCHARGE "CLEAN WATER" OFF-SITE.
3. DIVERSION DITCHES: USE DIVERSION DITCHES TO CONVEY SEDIMENT LADEN RUNOFF TO EROSION CONTROL BMPS AS SHOWN ON THE PLANS.
4. CONSTRUCTION ENTRANCE: CONSTRUCTION TRAFFIC SHALL BE LIMITED TO STABILIZED AREAS. AT A MINIMUM, A TEMPORARY GRAVEL CONSTRUCTION ENTRANCE SHALL BE PROVIDED AS SHOWN ON THIS DRAWING. VEHICLE WHEELS SHALL BE CLEAN WHEN LEAVING THE SITE TO PREVENT THE TRACKING OF MUD ON PAVED ROADS.
5. ROCK CHECK DAMS: ROCK CHECK DAMS CAN BE USED TO REDUCE EROSION IN A DRAINAGE CHANNEL TO LIMIT EROSION BY REDUCING VELOCITY IN OPEN CHANNELS.
6. SEDIMENT BASINS: SEDIMENT BASINS WITH SKIMMERS AND POROUS BAFFLES ARE USED TO RETAIN SEDIMENT ON THE CONSTRUCTION SITE, AND PREVENT SEDIMENTATION IN OFF-SITE STREAMS, LAKES, AND DRAINAGE WAYS
7. INLET PROTECTION: HARDWARE CLOTH AND GRAVEL INLET PROTECTION DEVICES CAN BE USED PREVENT SEDIMENT FROM ENTERING YARD INLETS, GRATED STORM DRAINS OR DROP INLETS DURING CONSTRUCTION. THIS PRACTICE ALLOWS EARLY USE OF THE STORM DRAIN SYSTEM

VEGETATIVE PRACTICES

- 1. TEMPORARY SEEDING: DISTURBED AREAS THAT ARE NOT ANTICIPATED TO BE BROUGHT TO FINAL GRADE FOR A PERIOD OF MORE THAN 7 OR 14 CALENDAR DAYS MUST RECEIVE TEMPORARY SEEDING (SEE NPDES TABLE). A QUICK GROWING GRASS SPECIES, WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH THE PERMANENT GRASSING, SHOULD BE USED. TEMPORARY SEEDING SHALL BE PER WAKE COUNTY REQUIREMENTS.
2. TEMPORARY GRASSING: THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED OR HYDROMULCHED OR OTHER SUITABLE METHODS IF REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER.
3. TEMPORARY REGRASSING: IF, AFTER 14 DAYS FROM SEEDING, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75 PERCENT GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER. RESEED AND MULCH BARE SPOTS LARGER THAN 9 SQUARE FEET.
4. PERMANENT SEEDING: ALL AREAS WHICH HAVE BEEN DISTURBED BY CONSTRUCTION WILL, AS A MINIMUM, BE SEEDED. PERMANENT SEEDING SHALL BE PER WAKE COUNTY REQUIREMENTS. IF GROWTH IS NOT ESTABLISHED BY FINAL PROJECT INSPECTION, CONTINUE SPECIFIED ATTENTION UNTIL THE STAND OF GRASS IS ACCEPTABLE.

MANAGEMENT STRATEGIES

- 1. STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE INTO ANY ADJACENT WATER BODY OR STORM WATER COLLECTION FACILITY. PER NCDWQ CONSTRUCTION GENERAL PERMIT REVISED AUGUST 4, 2011 ALL EARTHEN MATERIAL STOCKPILES MUST BE LOCATED 50' FROM STORM DRAINS AND STREAMS UNLESS NO OTHER REASONABLE ALTERNATIVE IS AVAILABLE.
2. RIP-RAP OUTLET PROTECTION: ALL RIP-RAP SHALL BE INSTALLED WITH FILTER FABRIC BENEATH.
3. SOIL DISPOSAL: DISPOSE OF ALL STOCKPILED MATERIAL TO AN APPROVED PERMITTED WAKE COUNTY DISPOSAL SITE.
4. DEWATERING: ALL TRENCH/PIT DEWATERING MUST DISCHARGE TO AN APPROVED S&EC MEASURE OR SILT SACK PRIOR TO LEAVING THE SITE.
5. PERMANENT EROSION CONTROL: THE EROSION CONTROL FACILITIES OF THE PROJECT SHOULD BE DESIGNED TO MINIMIZE THE IMPACT ON THE OFFSITE FACILITIES.

NOTIFICATION OF COMBINED SELF-MONITORING AND SELF-INSPECTION FORM:

THE SEDIMENTATION POLLUTION CONTROL ACT WAS AMENDED IN 2006 TO REQUIRE THAT PERSONS RESPONSIBLE FOR LAND-DISTURBING ACTIVITIES INSPECT A PROJECT AFTER EACH PHASE OF THE PROJECT TO MAKE SURE THAT THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS BEING FOLLOWED. RULES DETAILING THE DOCUMENTATION OF THESE INSPECTIONS TOOK EFFECT OCTOBER 1, 2010.

TO SIMPLIFY DOCUMENTATION OF SELF-INSPECTION REPORTS AND NPDES SELF-MONITORING REPORTS, DWQ AND DEMLR DEVELOPED A COMBINED FORM. THE SELF-INSPECTION PROGRAM IS SEPARATE FROM THE WEEKLY SELF-MONITORING PROGRAM OF THE NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITIES. THE FOCUS OF THE SELF-INSPECTION REPORT IS THE INSTALLATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROL MEASURES ACCORDING TO THE APPROVED PLAN. THE INSPECTIONS SHOULD BE CONDUCTED AFTER EACH PHASE OF THE PROJECT, AND CONTINUED UNTIL PERMANENT GROUND COVER IS ESTABLISHED. THE FORM CAN BE ACCESSED AT: HTTP://PORTAL.NCDENR.ORG/WEB/EROSION

IF YOU HAVE QUESTIONS OR CANNOT ACCESS THE FORM, PLEASE CONTACT THE FAYETTEVILLE REGIONAL OFFICE AT (910) 433-3300.

DUST CONTROL

- VEGETATIVE COVER FOR DISTURBED AREAS NOT SUBJECT TO TRAFFIC, VEGETATION PROVIDES THE MOST PRACTICAL METHOD OF DUST CONTROL.
MULCH WHEN PROPERLY APPLIED, MULCH OFFERS A FAST, EFFECTIVE MEANS OF CONTROLLING DUST.
MAINTENANCE MAINTAIN DUST CONTROL MEASURES THROUGH DRY WEATHER PERIODS UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED.

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INSPECTION AND MONITORING RECORDS FOR ACTIVITIES UNDER STORMWATER GENERAL PERMIT NCG010000 AND SELF-INSPECTION RECORDS FOR LAND DISTURBING ACTIVITIES PER G.S. 113A-54.1

Table with 3 columns: Project Name, Land Quality or Local Program Project/Permit #, and Approving Authority. Includes NCG010000 Certificate of Coverage Number and Date of COC Issuance.

Table for Part 1A: Rainfall Data. Columns: Date, Rain Amount (inches) Daily Rainfall Required, and Sat (Inspection Optional) / Sun (Inspection Optional).

Table for Part 1B: Phase(s) of the Plan. Columns: Check ALL applicable box(es) that apply to completed & current phases, and X.

Are there any site or project conditions that limit completion of inspection? If yes, explain conditions and areas of site that were inaccessible.

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PART 2: STORMWATER PLANS AND CONTROLS: For each question below, mark the corresponding box as Yes, No or N/A. For all items marked "No", note in Part 3A the Reference letter and provide the Corrective Action and location of the deficiency, the original date noted, and the date it was noted as being corrected. NOTE: Reference letters may be used multiple times.

Table for Part 2A: Storm Water Plans and Related Documents. Columns: Reference, Question, Yes, No, N/A. Includes questions about approval letters, approved plans, and stormwater controls.

Table for Part 2B: Stormwater Pollutant Controls. Columns: Reference, Question, Yes, No, N/A. Includes questions about erosion and sediment controls, vehicle tracking, soil stabilization, and earthwork.

Table for Part 2C: Non-Storm Water Pollutant Controls. Columns: Reference, Question, Yes, No, N/A. Includes questions about concrete washouts, hazardous waste, and sanitary waste.

For any items listed in the section below, a full description of sedimentation is required in Part 3A. This includes, but may not be limited to: location, estimated amount of sediment that has left the site and/or entered waters, apparent causes of the sediment loss, and what corrective actions need to be taken to prevent this from recurring.

Table for Part 2D: Sedimentation. Columns: Reference, Question, Yes, No, N/A. Includes questions about sediment beyond limits and BMPs detected.

PART 3A: EROSION AND SEDIMENTATION CONTROL MEASURES: Measures must be inspected at least ONCE PER 7 CALENDAR DAYS AND WITHIN 24 HOURS OF A RAINFALL EVENT EQUAL TO OR GREATER THAN 1.0 INCH PER 24 HOUR PERIOD. Add rows as needed.

Table for Part 3A: Erosion and Sedimentation Control Measures. Columns: Inspected, Describe Actions Needed, Date Previous Action(s) Observed as Corrected.

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Table for Part 3B: Stormwater Discharge Outfalls (SDOs). Columns: Stormwater Discharge Outfall ID or Location, Describe Actions Needed, Date Previous Action(s) Observed as Corrected.

Table for Part 3C: Ground Stabilization. Columns: Site Area Description, Stabilization, Timeframe Variations.

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PART 3D: NEW OR REVISED MEASURES: Erosion and sedimentation control measures omitted or installed, at a minimum since the last inspection, shall be documented here or by initiating and dating each measure or practice shown on a copy of the approved erosion and sedimentation control plan.

Table for Part 3D: New or Revised Measures. Columns: Measure ID or Location and Description, Proposed Dimensions (ft.), Actual Dimensions (ft.), Significant Deviation from Plan? (Y/N), Date measure observed as installed, altered, relocated or removed, Installed (I) Altered (A) Relocated (R) Removed (X).

*Significant deviation means any omission, alteration or relocation of an erosion or sedimentation control measure that prevents it from performing as intended.

Form for Part 4: Signature of Inspector. Includes fields for Financially Responsible Party (FRP) / Permittee, Inspector Type (Marked), Agent/Designee, and Date & Time of Inspection.

Seal of Donald K. Curry, Engineer, No. 026970, State of North Carolina. Includes date 7/20/2022.

LAKESIDE SELF-STORAGE - HARNETT COUNTY EROSION CONTROL DETAILS I

Curry Engineering logo and contact information: 206 S. Futility Avenue, Fayetteville, NC 27808. Includes phone numbers and website.

PROJECT: 191616 - LAKESIDE SELF-STORAGE - HARNETT COUNTY EROSION CONTROL DETAILS I. DATE: 7/20/2022 10:58 AM.

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.

SECTION E: GROUND STABILIZATION		
Site Area Description	Required Ground Stabilization Timeframes	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed 7 days for slopes greater than 50' in length and with slopes steeper than 4:1 7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones
(d) Slopes 3:1 to 4:1	14	10 days for Falls Lake Watershed 7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones 10 days for Falls Lake Watershed unless there is zero slope
(e) Areas with slopes flatter than 4:1	14	None

NOTE: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION		
Stabilization	Permanence	Use One of the techniques in the table below:
Temporary 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 Stabilization • 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 • Rolled erosion control products with grass seed	

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

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

EQUIPMENT AND VEHICLE MAINTENANCE

- Maintain vehicles and equipment to prevent discharge of fluids.
- Provide drip pans under any stored equipment.
- Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
- Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
- Remove leaking vehicles and construction equipment from service until the problem has been corrected.
- 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

- Never burn or bury litter. Place litter in approved waste containers.
- Provide a sufficient number and size of waste containers (eg dumpster, trash receptacle) on site to contain construction and domestic wastes.
- Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- 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.
- Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
- Anchor all lightweight items in waste containers during times of high winds.
- Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
- Dispose waste off-site at an approved disposal facility.
- On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

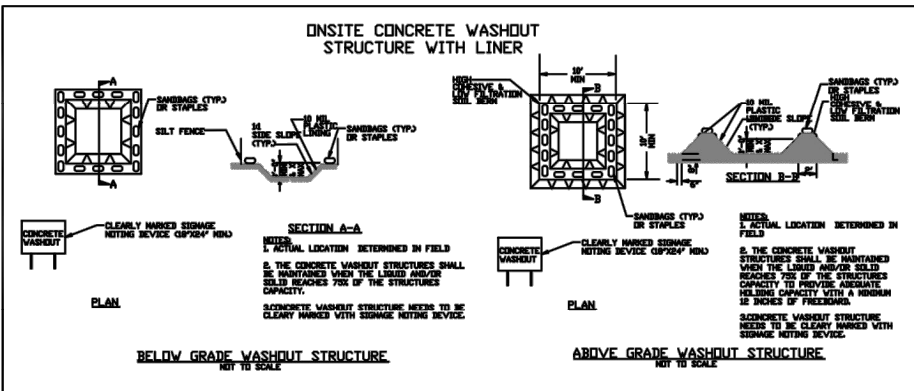
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled,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

PORTABLE TOILETS

- 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.
- Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
- 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

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment control and surface waters unless it can be shown no other alternatives are reasonably available.
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- Provide stable stone access point when feasible.
- 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.



CONCRETE WASHOUTS

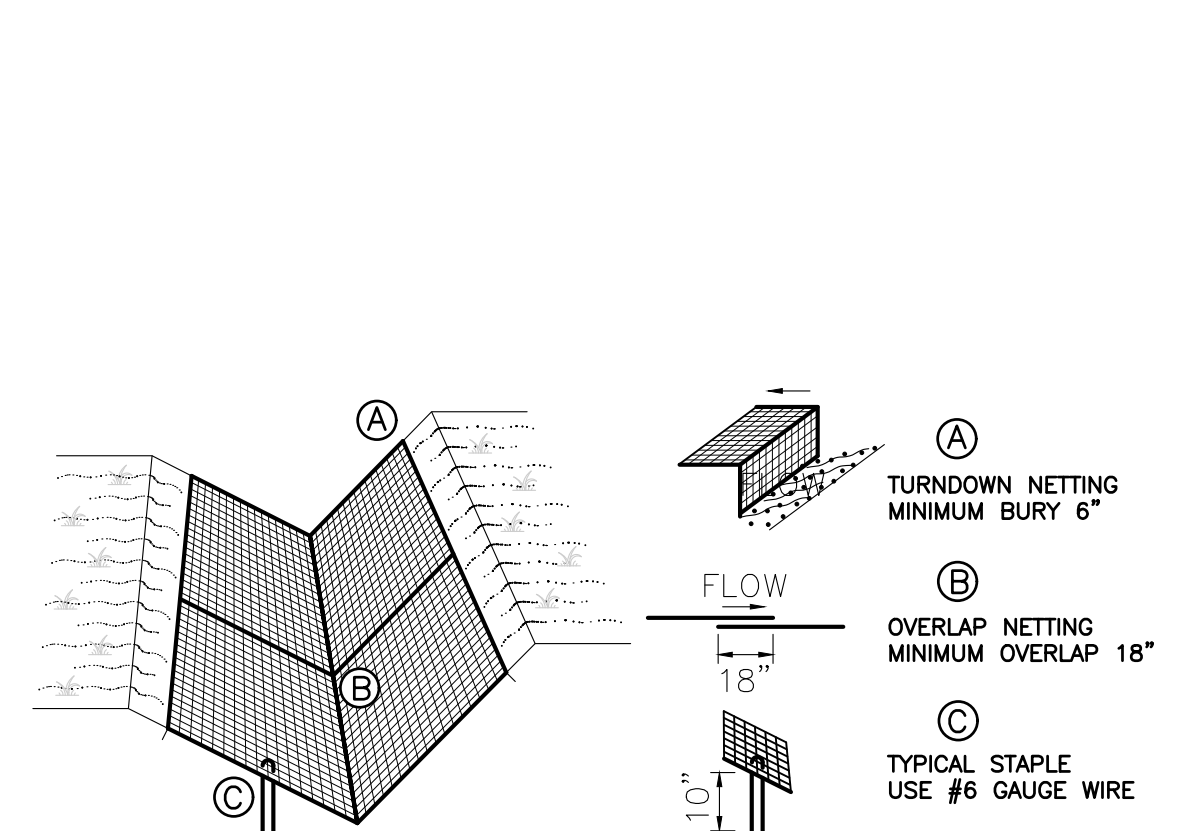
- Do not discharge concrete or cement slurry from the site.
- Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
- 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 standards details are not available, use one of the two types of temporary concrete washouts provided on this detail.
- 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.
- 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.
- Locate washouts in an easily accessible area, on level ground and install a concrete entrance pad in front of the washout. Additional controls may be required by the approving authority.
- 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.
- Remove loadings 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.
- At the completion of the concrete work, remove remaining loadings and dispose in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
- 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.
- 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.
- Do not stockpile these materials onsite.

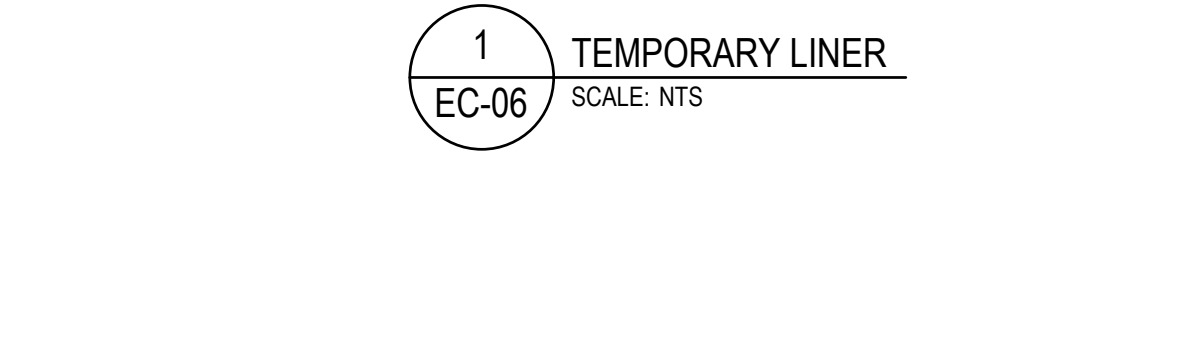
HAZARDOUS AND TOXIC WASTE

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



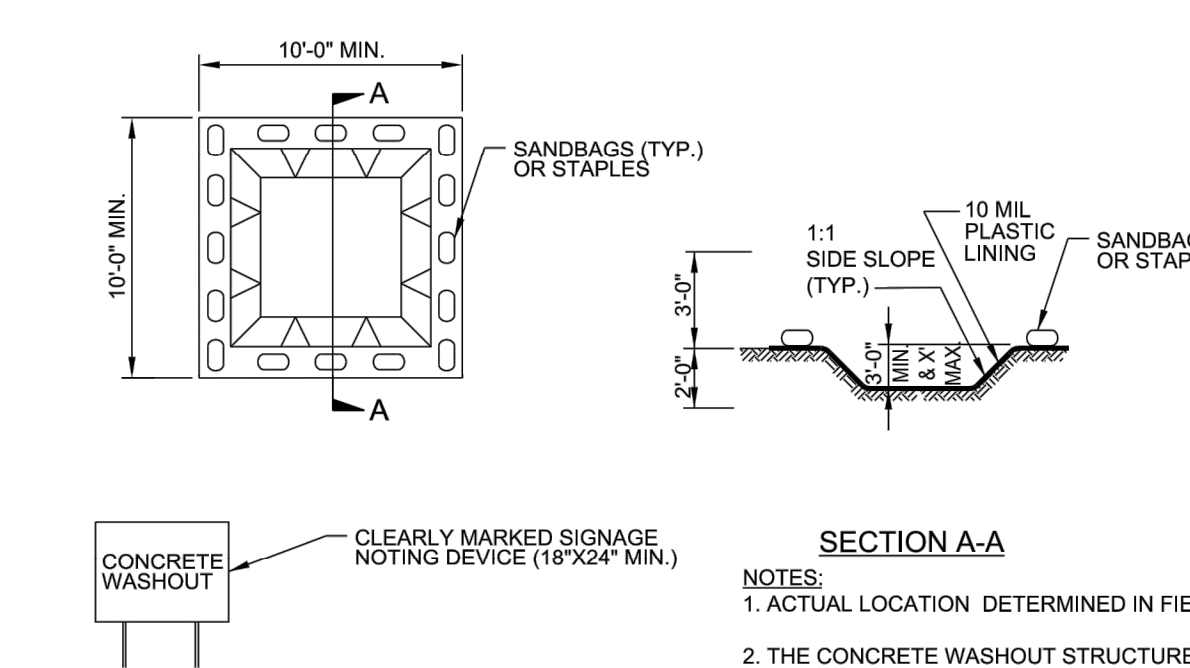
GENERAL NOTES:

- APPLY SEED, STRAW AND TACK WITH RS OR CRS LIQUID EMULSIFIED ASPHALT AT A RATE EQUAL TO 10 GAL PER 1000 S.F. COVER WITH BERGLASS NETTING.
- STAPLE EVERY 24\"/>



WITH LINER, NO GRAVEL APPROACH

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



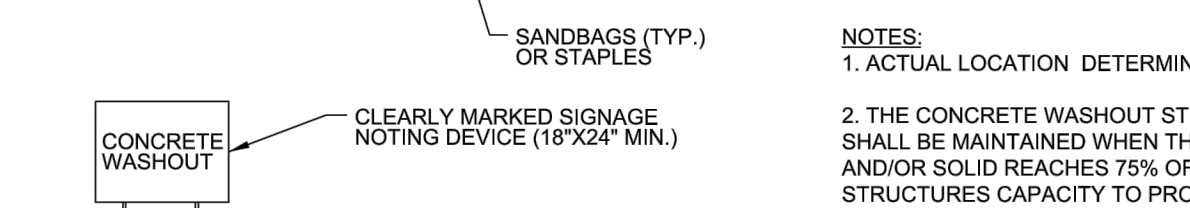
SECTION A-A

- ACTUAL LOCATION DETERMINED IN FIELD
- THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY.
- CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.



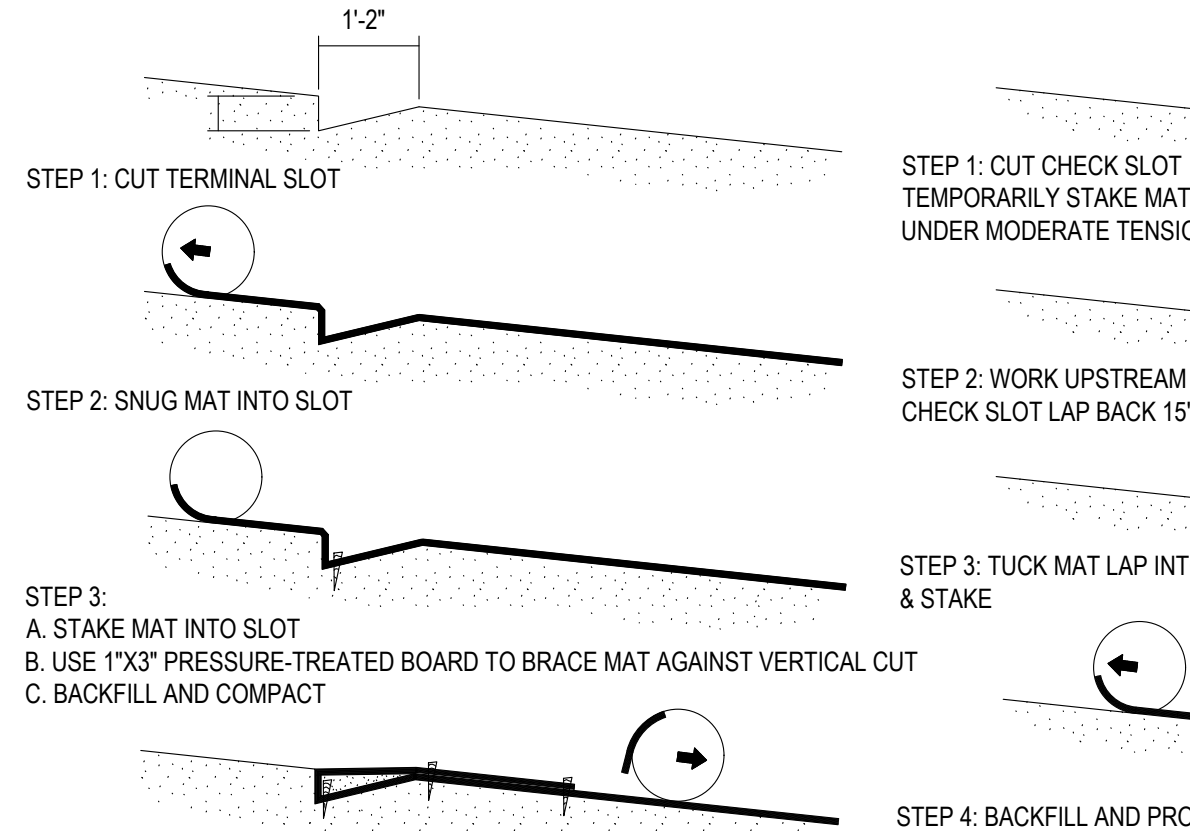
SECTION B-B

- ACTUAL LOCATION DETERMINED IN FIELD
- THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
- CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.



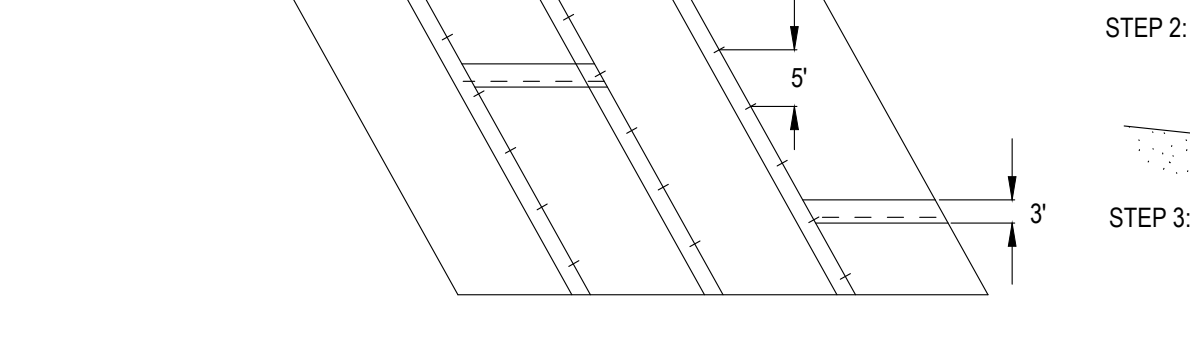
PRELIMINARY DESIGN NOT FOR CONSTRUCTION

2 EC-06 SCALE: NTS



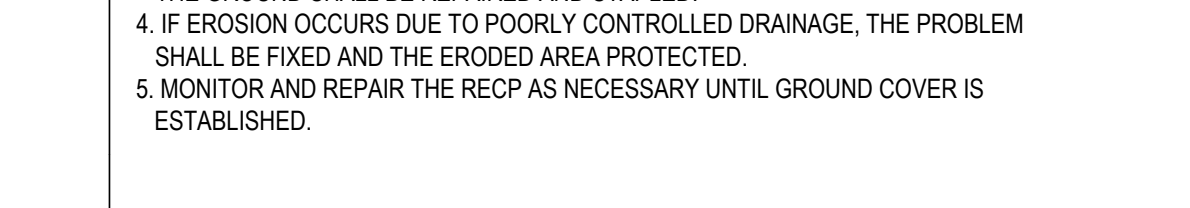
GENERAL NOTES:

- APPLY SEED, STRAW AND TACK WITH RS OR CRS LIQUID EMULSIFIED ASPHALT AT A RATE EQUAL TO 10 GAL PER 1000 S.F. COVER WITH BERGLASS NETTING.
- STAPLE EVERY 24\"/>



WITH LINER, NO GRAVEL APPROACH

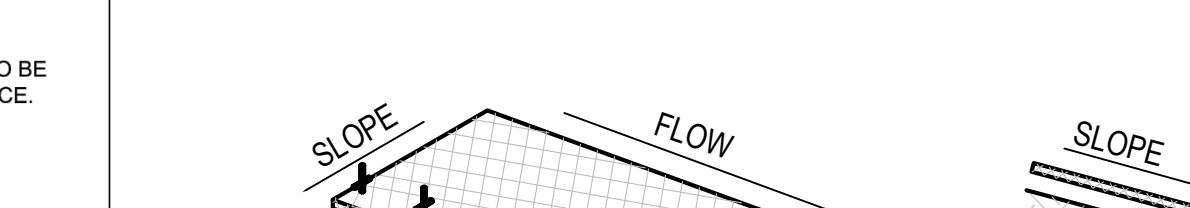
INSTALLATION OF EROSION CONTROL BLANKET ON SLOPES



GENERAL NOTES:

- INSPECT ROLLED EROSION CONTROL PRODUCTS DAILY AND AFTER EVERY 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.

3 EC-06 SCALE: NTS



GENERAL NOTES:

- INSTALLATION OF EROSION CONTROL MAT/BLANKETS SHALL COMPLY WITH MANUFACTURER'S SPECIFICATIONS.
- TEMPORARY EROSION CONTROL BLANKET USE ONE 9\"/>

4 EC-06 SCALE: NTS

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING EFFECTIVE: 04/01/19

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 equal to or 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:
(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 unattended days (note 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-measuring device approved by the Division.
(2) E&S 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. 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. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDCs)	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 outfall 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. Description, evidence, and date of corrective 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. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to correct 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. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(d) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading installation of perimeter E&S measures, cleaning and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

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

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

The approved E&S plan as well as any approved deviation shall be kept on the site. The approved E&S plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&S plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&S measure has been installed and does not significantly deviate from the approved E&S plan. Locations, dimensions and relative elevations shown on the approved E&S plan.	Initial and date each E&S measure on a copy of the approved E&S plan or complete, date and sign an inspection report that lists each E&S measure shown on the approved E&S plan. This documentation is required upon the initial installation of the E&S measures or if the E&S measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&S 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&S plan.	Initial and date a copy of the approved E&S 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&S measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&S measures.	Initial and date a copy of the approved E&S plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site

In addition to the E&S plan documents above, the following items shall be kept on the site and available for 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:

- This General Permit as well as the Certificate of Coverage, after it is received.
- Records of inspections made during the previous twelve months. 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.

3. Documentation to be Retained for Three Years

All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.414]

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

- Visible sediment deposition in a stream or wetland.
- 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).
- 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. 143-215.65.
- Anticipated bypasses and unanticipated bypasses.
- 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 Department's Environmental Emergency Center personnel at (800) 858-0368.

Reporting Timeframes (After Discovery) and Other Requirements

- 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.
- Oil spills and release of hazardous substances per Item 1(b)-(f) above:
 - A report of 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.
 - 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.
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- Anticipated bypasses (40 CFR 122.414(m)(3))
- Unanticipated bypasses (40 CFR 122.414(m)(3))
- Noncompliance with the conditions of this permit that may endanger health or the environment (40 CFR 122.414(j)(7))

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NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING EFFECTIVE: 04/01/19

LAKESIDE SELF-STORAGE - HARNETT COUNTY EROSION CONTROL DETAILS IV

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