CONSTRUCTION DOCUMENTS

STAR COMMUNICATIONS NEW HEADQUARTERS

CLINTON, NC

JKF PROJECT NO. 2022-17

VOLUME 1

JULY 15, 2023

VOLUME 1

CIVIL

VOLUME 2

ARCHITECTURAL

STRUCTURAL

J K F
ARCHITECTURE

JKF ARCHITECTURE, P.C.
625 LYNNDALE CT., SUITE F GREENVILLE, NC 27858 (252)355-1068

JOHN K. FARKAS
REGISTERED ARCHITECT
5862
8/15/2023
GREENVILLE, N.C.

JKF ARCHITECTURE, P.C.
REGISTERED ARCHITECTURAL CORPORATION
CERT. NO. 51351
NORTH CAROLINA
GREENVILLE, NC

VOLUME 3

FIRE PROTECTION

PLUMBING

MECHANICAL

ELECTRICAL

FIRE ALARM

RIVERS & ASSOCIATES, INC.
CIVIL ENGINEERS
107 EAST SECOND STREET
GREENVILLE, NC 27858
252-752-4135

NESER & ROOMSBURG, PA
STRUCTURAL ENGINEERS
748 LORD DUNMORE DRIVE, STE. 101
VIRGINIA BEACH, VA 23464
757-474-0612

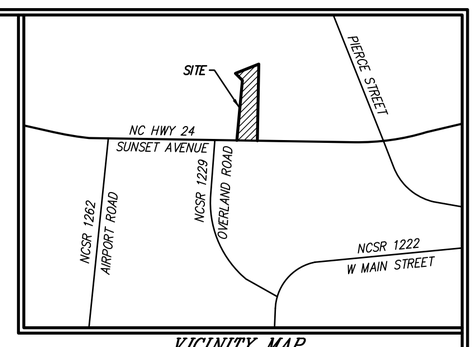
ATLANTEC ENGINEERS, PA
PLUMBING, MECHANICAL & ELECTRICAL ENGINEERS
3221 BLUE RIDGE ROAD, SUITE 113
RALEIGH, NC 27612
919-571-1111

MATCH LINE

SEE SHEET S-2

COMBINED SCALE FACTOR = 0.9998860
ALL DISTANCES ARE HORIZONTAL GROUND MEASUREMENTS IN FEET AND DECIMALS THEREOF UNLESS OTHERWISE NOTED.

N.C. GRID - NAD 83/2011



VICINITY MAP

THIS PROPERTY IS LOCATED IN ZONE X AND IS NOT IN A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY SCALING AND GRAPHIC PLOTTING FROM FLOOD INSURANCE RATE MAP NUMBER: 3720148400K EFFECTIVE DATE: 6-20-2018

I, WILLIAM C. BUTLER, JR., CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL GPS SURVEY MADE UNDER MY SUPERVISION AND THE FOLLOWING INFORMATION WAS USED TO PERFORM THE SURVEY:

(1) CLASS OF SURVEY: A
(2) POSITIONAL ACCURACY: 0.10 FT.
(3) TYPE OF GPS FIELD PROCEDURE: NCVRS NETWORK RTK
(4) DATES OF SURVEY: 2-23-2023
(5) DATUM / EPOCH: NAD 83 / 2011
(6) PUBLISHED / FIXED-CONTROL: NCVRS NETWORK
(7) GEOID MODEL: CONTINENTAL US_NGS2012B
(8) COMBINED GRID FACTOR(S): 0.9998860
(9) UNITS: US SURVEY FEET

NORTH CAROLINA PROFESSIONAL SEAL L-4359 LAND SURVEYOR WILLIAM C. BUTLER, JR.

W. C. Butler, Jr.
L - 4359
THIS 23RD DAY OF FEBRUARY, 2023.

WOODED LOW LANDS

DEBRIS AREA

DEBRIS AREA

GRAVEL

GRAVEL

PAVEMENT

WOODED

BENTON & SONS #4, LLC
DB 1661, P 68
DB 1219, P 370 - MAP

4
SHELTON A. DAVIS
DB 1650, P 900
MB 5, P 67

N06°24'35"E 223.84'

N06°41'52"E 200.23'

N06°31'50"E 120.09'

S00°03'15"E 800.82'

1 TOP=154.19
N INV=150.26
E INV=148.68
W INV=148.40

2 HOOD=154.37
GRATE=153.70
S INV=150.74

3 TOP=154.69
N INV= 150.79
E INV=148.97
W INV=148.82

4 HOOD=154.84
GRATE=154.21
W INV=151.35

5 TOP=155.08
N INV=150.41
E INV=149.28
S INV=150.12
W INV=149.38

6 HOOD=155.27
GRATE=154.60
N INV=150.68
S INV=150.77

7 GRATE=153.61
S INV=150.97
W INV=150.92

8 GRATE=153.69
E INV=150.95

9 TOP=155.55
N INV=150.92
E INV=150.24
W INV=150.34

10 HOOD=155.73
GRATE=155.10
N INV=151.29
S INV=151.37

11 HOOD=154.85
GRATE=154.05
S INV=151.41

12 TOP=153.92
E INV=146.51
W INV=146.58

13 TOP=155.41
N INV=148.95
E INV=147.82
S INV=148.09
W INV=BLOCKED OFF
NW INV=148.95

14 TOP=133.98
SE INV=129.74
S INV=130.60
NW INV=129.64

15 TOP=134.92
E INV=129.76
W INV=129.68

16 TOP=140.29
E INV=130.59
W INV=130.39

17 TOP=142.20
N INV=132.26
S INV=132.41

18 TOP=143.62
N INV=133.07
E INV=133.47

LEGEND
EIS = EXISTING IRON STAKE
NIP = NEW IRON PIPE
R/W = RIGHT OF WAY
℄ = CENTERLINE
-ZZ- = NOT TO SCALE
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GW = GUY WIRE
RCP = REINFORCED CONCRETE PIPE
B/C = BACK OF CURB
x 150.00 = EXISTING SPOT ELEVATION

SOURCE OF TITLE
DB 1950, P 599
MB 93, P 21

ACREAGE DATA
11.50 AC. ±
EXCL. R/W
BY COMPUTER

NOTE: ALL ELEVATIONS SHOWN ARE RELATIVE TO NAVD 1988 DATUM BASED ON AN ELEVATION OF 154.71 FT. AT NCGS MONUMENT WRECKER.

CONTROL CORNER
N = 452,572.59'
E = 2,195,047.53'

NOTE: BENCHMARK TOP OF BOLT OVER LARGEST FLANGE ON FIRE HYDRANT ELEVATION = 155.92

NCGS MONUMENT
WRECKER
N = 452,520.10'
E = 2,195,870.14'

N89°58'00"W 418.16'

N86°20'57"W 824.38'

CONCRETE ISLAND

GRASS ISLAND

CONCRETE

ASPHALT

ASPHALT

SIDEWALK

SIDEWALK

SWALE

N.C. HIGHWAY 24 - SUNSET AVENUE - R/W VARIES

EXISTING CONDITIONS
1"=30'-0"
30 15 0 30'

Atlantic Surveying, P.A.

FIRM LICENSE NO. C - 1412
111 S. QUEEN STREET
KINSTON, N.C. 28501
PHONE: (252) 527-6994
FAX: (252) 522-0139

PROJECT NO. 23024

STAR COMMUNICATIONS
1322 SUNSET AVENUE
CLINTON, N.C., SAMPSON CO.

ISSUE DATE: 2-23-2023
CHECKED BY: W.C.B., JR.
DRAWN BY: W.C.B., JR.

SHEET NO. S-1

NORTH CAROLINA PROFESSIONAL SEAL L-4359 LAND SURVEYOR WILLIAM C. BUTLER, JR.
2-23-2023

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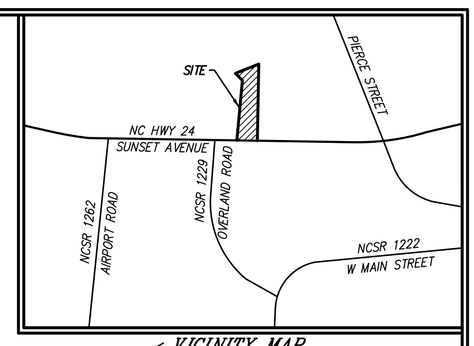

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NORTH CAROLINA PROFESSIONAL SEAL L-4359 LAND SURVEYOR WILLIAM C. BUTLER, JR.

L - 4359

THIS 23RD DAY OF FEBRUARY, 2023.

CITY OF CLINTON
DB 417, P 320

EIS
N59°20'38"E
434.58'
DITCH
WOODED LOW LANDS
EIS
8"PVC
SSMH 14
8"PVC
SS 8"
N53°35'20"W
176.06'
DITCH
EIS
SSMH 15
BRANCH
SSMH 16
WOODED LOW LANDS
POND
SSMH 17
8"
N00°20'10"E
756.88'
POND
SSMH 18
8"
SS

4
SHELTON A. DAVIS
DB 1650, P 900
MB 5, P 67

BENTON & SONS #4, LLC
DB 1661, P 68
DB 1219, P 370 - MAP

N06°31'58"E
725.09'

MATCH LINE

SEE SHEET S-1

EXISTING CONDITIONS
1"=30'-0"
30 15 0 30'

Atlantic Surveying, P.A. FIRM LICENSE NO. C - 1412 111 S. QUEEN STREET KINSTON, N.C. 28501 PHONE: (252) 527-6994 FAX: (252) 522-0139	PROJECT NO. 23024	STAR COMMUNICATIONS 1322 SUNSET AVENUE CLINTON, N.C., SAMPSON CO.	ISSUE DATE: 2-23-2023 CHECKED BY: W.C.B., JR. DRAWN BY: W.C.B., JR.	SHEET NO. S-2	NORTH CAROLINA PROFESSIONAL SEAL L-4359 LAND SURVEYOR WILLIAM C. BUTLER, JR. 2-23-2023

SITE DEVELOPMENT PLANS FOR

STAR COMMUNICATIONS NEW HEADQUARTERS

CITY OF CLINTON, SAMPSON COUNTY, NC

SITE DATA	
PROJECT INFO:	STAR TELEPHONE MEMBERSHIP CORPORATION 1322 SUNSET AVE
MUNICIPALITY:	City of Clinton
NC PIN:	12104280001
DEED REFERENCE:	D.B.1950, PG. 599
LOT AREA:	11.50 Acres
ZONING:	HC - Planned Industrial
ADJACENT ZONING:	HC - Planned Industrial RA-20 - Residential Agriculture RA - Rural and Agriculture (Sampson County ETJ)
PROPOSED USE:	OFFICE
PROPOSED GROSS FLOOR AREA:	29313 SF
BUILDING HEIGHT:	N/A
IMPERVIOUS AREAS	
LOT AREA:	501,033 SF
EXISTING IMPERVIOUS:	3,412 SF
BUILDING (ROOF):	29,851 SF
ASPHALT AND C&G	108,807 SF
5' GRAVEL TRAIL	13,522 SF
CONCRETE:	8,690 SF
TOTAL IMPERVIOUS:	160,870 SF
LOT COVERAGE:	32.1%
SETBACKS	Minimum
FRONT	15 ft
SIDE	15 ft (10ft Parking Area Setback)
REAR	15 ft (10ft Parking Area Setback)
BUFFERYARD	Minimum / Notes
	15' wide evergreen bufferyard per City of Clinton, NC Land Development Ordinance Section 8.2 Buffers
PARKING SUMMARY	
REQUIRED:	140
PROVIDED:	10 HC 108=TOTAL 148

VICINITY MAP
1" = 500'

Sheet List Table	
Sheet Number	**Sheet Title**
C 0.0	COVER SHEET
C 0.1	EXISTING CONDITION PLAN AND DEMOLITION PLAN
C 1.1	SITE OVERALL
C 1.11	SITE PLAN-SOUTH
C 1.12	SITE PLAN-NORTH
C 2.11	UTILITIES PLAN-SOUTH
C2.12	UTILITIES PLAN-NORTH
C 3.11	GRADING AND STORM DRAINAGE PLAN-SOUTH
C3.12	GRADING AND STORM DRAINAGE PLAN-NORTH
C 4.11	EROSION CONTROL PLAN-PH1
C 4.12	EROSION CONTROL PLAN-PH2
C 5.1	SITE DETAILS
C 5.2	SITE DETAILS
C 5.3	WATER DETAILS
C 5.4	SEWER AND STORM DETAILS
C 6.1	EROSION CONTROL NOTES AND CACULATIONS
C 6.2	EROSION CONTROL NOTES-NCGO1
C 6.3	EROSION CONTROL DETAILS
L 1.11	LANDSCAPE PLAN-SOUTH
L 2.11	LANDSCAPE NOTES AND DETAILS

GENERAL NOTES:

1. *CONTRACTOR MUST NOTIFY NORTH CAROLINA ONE-CALL CENTER, INC. (NC-811) AT LEAST 72 HOURS PRIOR TO THE START OF EXCAVATION TO HAVE ALL UNDERGROUND UTILITIES LOCATED PRIOR TO EXCAVATING OR TRENCHING.*
2. *ELECTRIC AND TELEPHONE UTILITIES SHALL BE INSTALLED UNDERGROUND.*
3. *ALL REQUIRED IMPROVEMENTS SHALL COMPLY WITH THE CITY OF CLINTON STANDARD AND DETAILS.*
4. *CONSTRUCTION PLAN APPROVAL FROM CITY OF CLINTON STANDARD AND DETAILS. SHALL BE OBTAINED PRIOR TO CONSTRUCTION OF ANY STREET, WATER, AND/OR SANITARY SEWER AND STORM DRAINAGE SYSTEMS.*
5. *THIS SITE IS NOT LOCATED IN A ZONE 'X' (AREA DETERMINED TO BE OUTSIDE 0.2% ANNUAL CHANCE 100 YEAR FLOODPLAIN) AS IDENTIFIED BY FEMA FLOOD INSURANCE RATE MAP 3720148400K, EFFECTIVE JULY 19, 2022.*
6. *EROSION CONTROL PLAN APPROVAL REQUIRED.*
7. *BUILDINGS MUST MEET ALL APPLICABLE BUILDING CODES. SITE SHALL MEET ALL RELATIVE NORTH CAROLINA ACCESSIBILITY CODE REQUIREMENTS.*
8. *NCDOT AND DRIVEWAY PERMITS ARE REQUIRED.*
9. *REFUSE COLLECTION SHALL BE PROVIDED BY PRIVATE CONTRACTOR.*
10. *ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.*
11. *APPROVAL OF SITE PLAN DOES NOT CONSTITUTE APPROVAL OF SIGNS. SEPARATE SIGN PERMITS ARE REQUIRED.*
12. *CONTRACTOR SHALL NOTIFY PUBLIC WORKS STREET MAINTENANCE DIVISION 48 HOURS PRIOR TO MAKING CONNECTIONS TO EXISTING STORM DRAINS LOCATED WITHIN PUBLIC STORM DRAINAGE EASEMENTS OR R/W.*
13. *ACCESS TO PUBLIC UTILITIES MUST BE MADE AVAILABLE AT ALL TIMES.*
14. *ELECTRIC EASEMENT IS 10' IN WIDTH AND CENTERED OVER ELECTRIC LINES AS INSTALLED.*
15. *NO BUILDINGS, STRUCTURES OR OTHER IMPROVEMENTS, MATERIALS AND SURFACES, INCLUDING BUT NOT LIMITED TO PRINCIPLE AND ACCESSORY STRUCTURES AND ADDITIONS AND APPURTENANCES THERETO, SIGNAGE, FENCES, WALLS, MECHANICAL EQUIPMENT, CANOPIES, ANTENNAS, MASTS, DEBRIS, SOLID WASTE COLLECTION CONTAINERS, MAIL RECEPTACLES AND IMPERVIOUS SURFACES SHALL ENCROACH WITHIN ANY DEDICATED EASEMENT WITHOUT PRIOR APPROVAL, AS APPROPRIATE.*
16. *THIS SITE DOES NOT REQUIRE ANNEXATION UPON APPROVAL OF SITE PLAN.*
17. *LANE CLOSURES ON THOROUGHFARE ROADS ARE ONLY PERMITTED BETWEEN THE HOURS CITY OF CLINTON STANDARD AND DETAILS, UNLESS OTHERWISE PERMITTED BY THE TRAFFIC ENGINEER IN ADDITION , THERE WILL BE NO LANE CLOSURES ON HOLIDAYS INCLUDING THE DAY BEFORE OR AFTER SAID HOLIDAY. A TRAFFIC CONTROL PLAN PREPARED IN ACCORDANCE WITH THE NCDOT MANUAL OF UNIFORM TRAFFIC CONTROL DEVISES IS REQUIRED FOR ALL LANE CLOSURES AND MUST BE APPROVED BY THE TRAFFIC ENGINEER.*
18. *ALL SITE LIGHTING SHALL COMPLY WITH THE CITY OF CLINTON STANDARD AND DETAILS LIGHTING STANDARD.*
19. *NEW BUILDINGS MUST COMPLY WITH NC FIRE CODE SECTION 510-EMERGENCY RESPONDER RADIO COVERAGE.*

CIVIL ENGINEER

Rivers & Associates, Inc.
Greenville, NC

Rivers & ASSOCIATES, INC. Since 1918

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

Contact: Steve Janowski, PE
sjanowski@riversandassociates.com

ARCHITECT

JKF Architecture, P.C.
Greenville, NC

JKF ARCHITECTURE

625 Lynndale Court, Suite F
Greenville, NC 27858
(252) 355-1068

Contact: John K. Farkas, AIA LEED-AP BD+C
jkf@jkf-arch.com

GENERAL NOTES

NO	REVISION	DATE

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 12324 STEPHEN JANOWSKI

JKF ARCHITECTURE

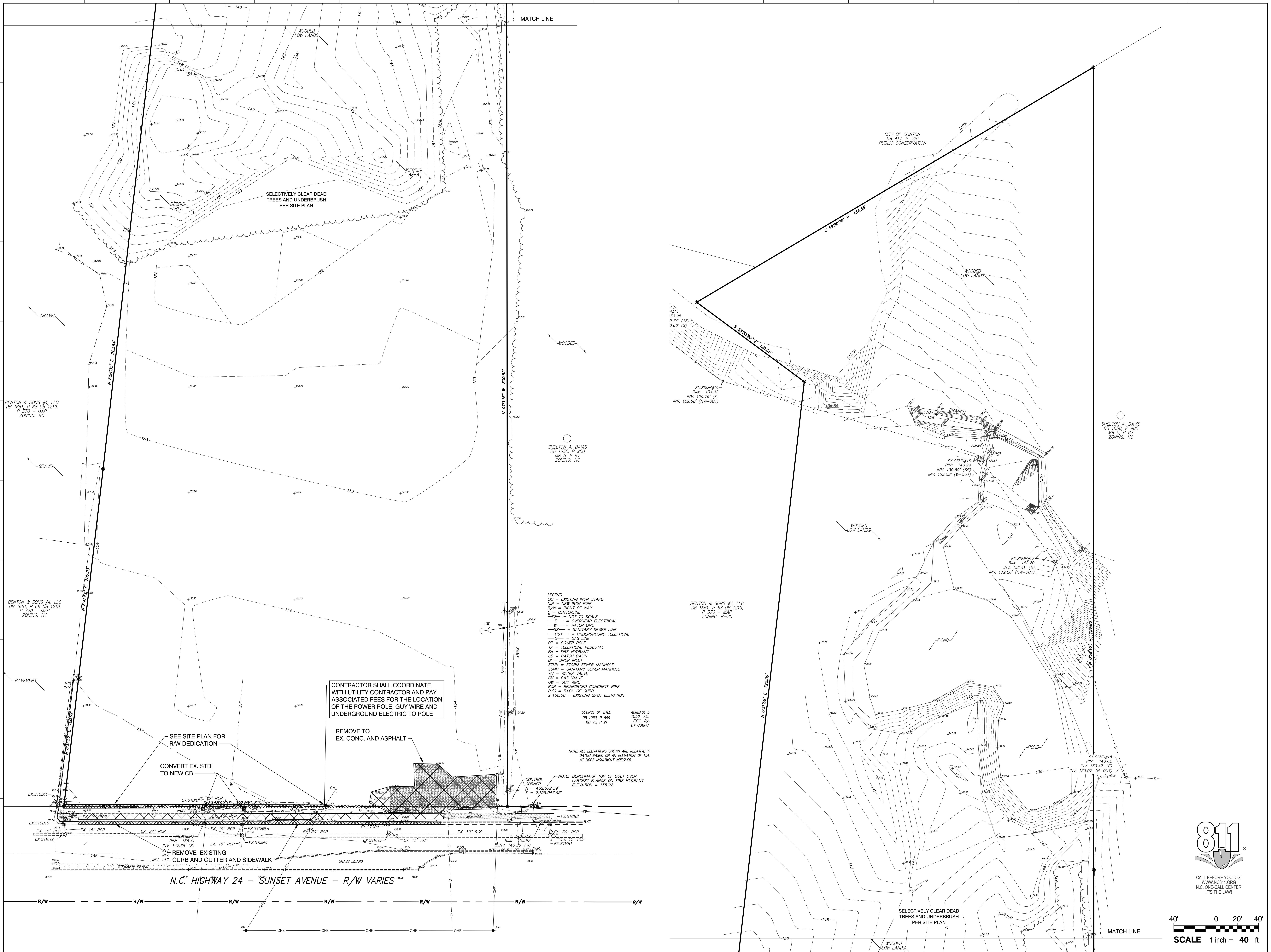
625 LYNNDALE CT., SUITE F, GREENVILLE NC 27858 252-355-1068

STAR COMMUNICATIONS NEW HEADQUARTERS
CITY OF CLINTON- SAMPSON COUNT- NC

DRAWING TITLE
COVER SHEET

SCALE: AS SHOWN	DRAWING NO: C 0.0
DRAWN: MS	
CHECKED: JSJ	
DATE: 07-15-2023	
PROJECT NO.: 202311	

R:\LANDDEV\KF-STAR_COMM_CLINTON-20231\11CADD_DWG\SHEETS\C0.0 COVER SHEET.DWG - C 0.0 COVER SHEET - 7/18/2023 9:05:12 AM - SAM FLOYD



R:\LANDDEV\JKF-STAR_COMM_CLINTON-2023011\CADD_DWG\SHEETS\EXISTING CONDITION PLAN AND DEMOLITION PLAN.DWG - C 0.1 EXISTING CONDITION PLAN AND DEMOLITION PLAN - 7/18/2023 11:23:13 AM - SAM FLOYD

GENERAL NOTES

NO	REVISION	DATE

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 1232 ENGINEER J. STEPHEN JANOWSKI

J K F
ARCHITECTURE

625 LYNNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

STAR COMMUNICATIONS
NEW HEADQUARTERS
CITY OF CLINTON- SAMPSON COUNT- NC

DRAWING TITLE
EXISTING CONDITION PLAN AND DEMOLITION PLAN

SCALE	AS SHOWN
DRAWN	MS
CHECKED	JSJ
DATE	07-15-2023
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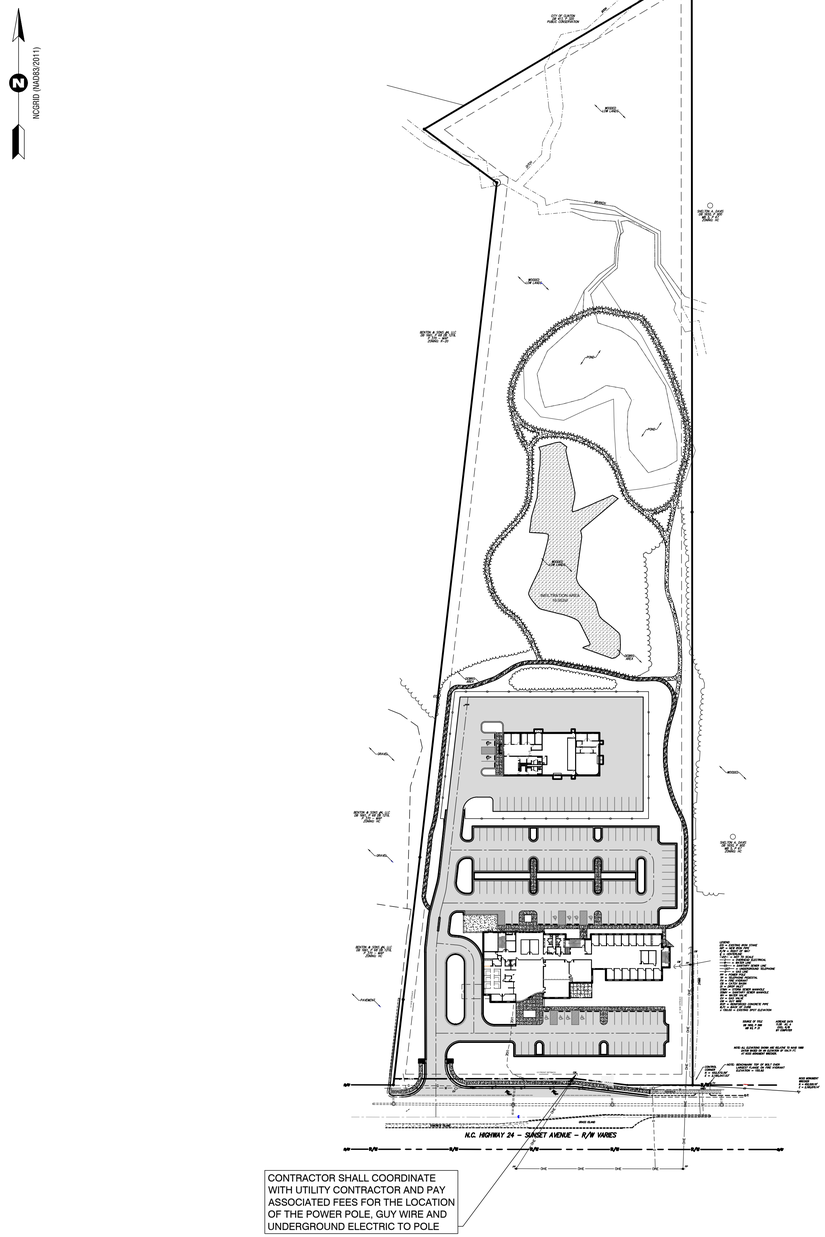

CONTRACTOR SHALL COORDINATE WITH UTILITY CONTRACTOR AND PAY ASSOCIATED FEES FOR THE LOCATION OF THE POWER POLE, GUY WIRE AND UNDERGROUND ELECTRIC TO POLE

GENERAL NOTES

NO	REVISION	DATE

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 23241 ENGINEER STEPHEN JANOWSKI

JKF ARCHITECTURE

625 LYNNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

RAI Project #2023011

Rivers & ASSOCIATES, INC. Since 1918
NC License: F-0334
riversandassociates.com
Six Forks Place III Ste. 230
353 E. Six Forks Road
Raleigh, NC 27609
919.594.1626
Engineers
Planners
Surveyors
Landscape Architects

811 CALL BEFORE YOU DIG! WWW.NC811.ORG N.C. ONE-CALL CENTER IT'S THE LAW!

EDA INVESTMENT NO. 04-01-07418
SCO# 19-20081-01A; NCCCS #2436

100' 0 50' 100'
SCALE 1 inch = **100** ft

STAR COMMUNICATIONS NEW HEADQUARTERS

CITY OF CLINTON- SAMPSON COUNT- NC

DRAWING TITLE

SITE OVERALL

SCALE	AS SHOWN
DRAWN	MS
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DATE	07-15-2023
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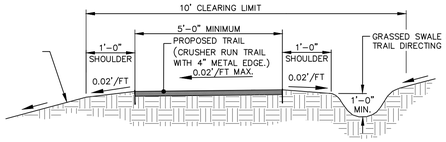
DRAWING NO	C 1.1

R:\LANDDEV\JKF-STAR_COMM_CLINTON-2023011\CADD_DWG\SHEETS\SITE OVERALL.DWG - C 1.1 SITE OVERALL - 7/18/2023 11:21:42 AM - SAM FLOYD



NOTE:
TRAIL IS TO BE CONSTRUCTED OF 4"CRUSHER RUN TRAIL WITH 4" METAL EDGE. FINAL ALIGNMENT OF THE TRAILS SHALL BE DETERMINED BY THE ARCHITECT IN COORDINATION WITH THE CONTRACTOR PRIOR TO THE INSTALLATION OF THE TRAILS.

TYPICAL SECTION

STANDARD 5-FT CRUSHER RUN TRAIL WITH 4" METAL EDGE

TYPICAL SECTION–3/4/4.5– TOTAL OF 11.5 INCHES:

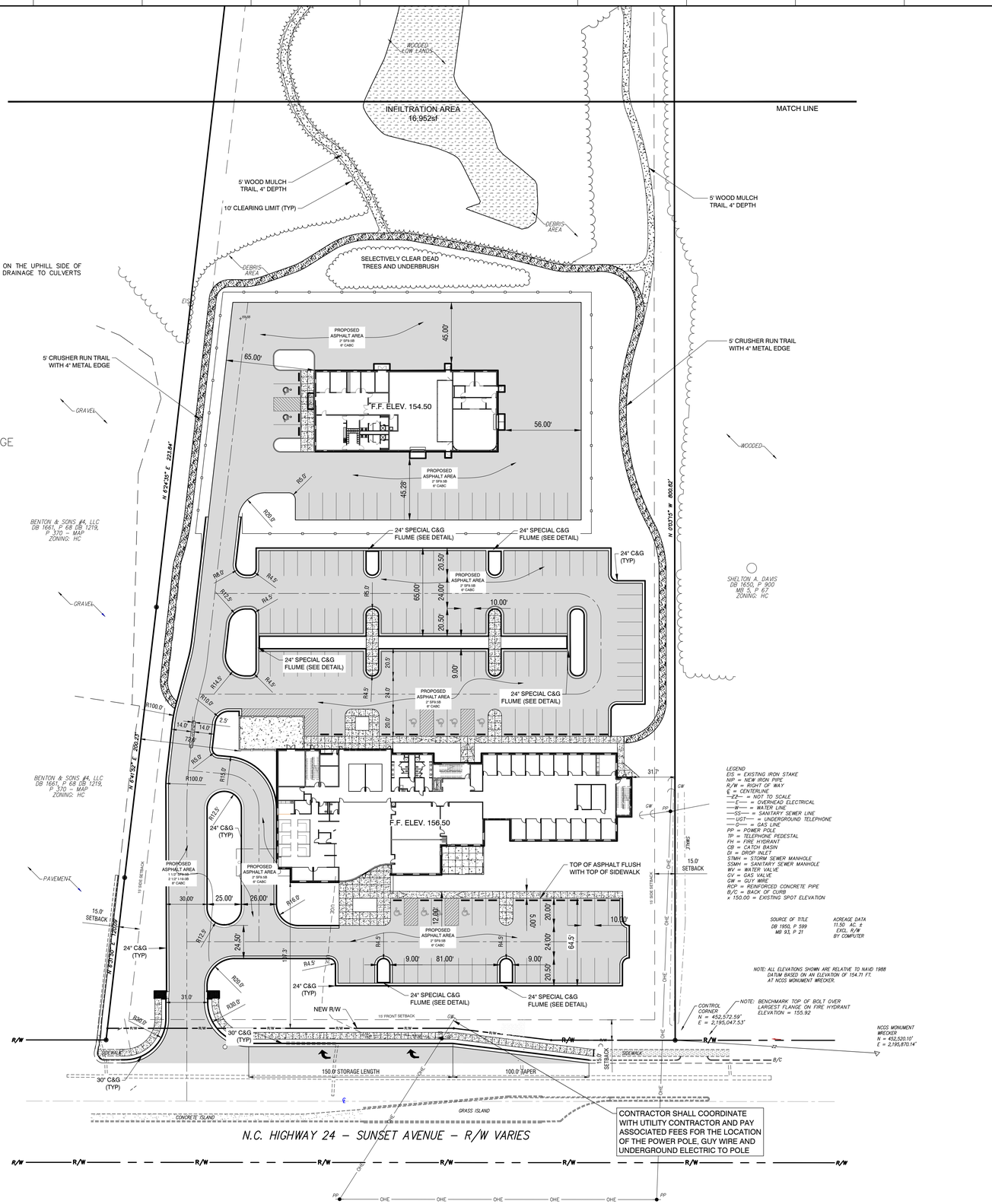
C1– PROPOSED APPROXIMATE 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AVERAGE RATE OF 165LBS. PER SQ. YD

C2– PROPOSED APPROXIMATE 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S+.5B AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.

V–TACK COAT

D1– PROPOSED APPROXIMATE 4" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.

E1–PROPOSED APPROXIMATE 4.5" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE B25.0,C AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.



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BY COMPUTER

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GENERAL NOTES

1. ALL SITE WORK SHALL BE DONE IN ACCORDANCE WITH THE PLANS PREPARED BY RIVERS AND ASSOCIATES, INC., THE CURRENT REQUIREMENTS OF THE CITY/TOWN OF CLINTON, THE APPLICABLE SECTIONS OF THE NCDOT STANDARD SPECIFICATIONS FOR ROADWAY CONSTRUCTION, AND ALL OTHER PERTINENT FEDERAL, STATE AND LOCAL LAWS.
2. THE CONTRACTOR SHALL COMPLY AT ALL TIMES WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, PROVISIONS, AND POLICIES GOVERNING SAFETY AND HEALTH, INCLUDING THE FEDERAL CONSTRUCTION SAFETY ACT (PUBLIC LAW 91-54); FEDERAL REGISTER, CHAPTER XVII, PART 1926 OF TITLE 29 REGULATIONS, OCCUPATIONAL SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION, AND SUBSEQUENT PUBLICATIONS UPDATING THESE REGULATIONS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING THE AREAS AND CONDITIONS UNDER WHICH THE PROJECT IS TO BE CONSTRUCTED PRIOR TO THE SUBMISSION OF A BID. SUBMISSION OF A BID SHALL BE CONSTRUED TO MEAN THE CONTRACTOR HAS REVIEWED THE SITE AND IS FAMILIAR WITH CONDITIONS AND CONSTRAINTS OF THE SITE.
4. BEFORE EXCAVATION, ALL UNDERGROUND UTILITIES SHALL BE LOCATED IN THE FIELD BY THE PROPER AUTHORITIES. THE CONTRACTOR SHALL NOTIFY N.C. ONE CALL AT 1-800-632-4949. THE LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES ARE APPROXIMATE AND MAY NOT ALL BE SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND EXACT LOCATION OF ALL UTILITIES AND UNDERGROUND STRUCTURES.
5. CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT PRIOR TO INITIATION OF ANY EARTHWORK ACTIVITY.
6. CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL PLAN - TO BE SUBMITTED TO AND APPROVED BY NCDOT AND THE CITY/TOWN OF CLINTON.
7. CONTRACTOR SHALL NOTIFY PUBLIC WORKS STREET MAINTENANCE DIVISION 48 HOURS PRIOR TO MAKING CONNECTIONS TO EXISTING STORM DRAINS LOCATED WITHIN PUBLIC STORM DRAINAGE EASEMENTS OR R/W.
8. REFER TO #### FOR SURVEY CONTROL INFORMATION.
9. CONTRACTOR SHALL REFER TO OTHER PLANS WITHIN THIS CONSTRUCTION SET FOR OTHER PERTINENT INFORMATION.
5. *THIS SITE IS NOT LOCATED IN A ZONE "X" (AREA DETERMINED TO BE OUTSIDE 0.2% ANNUAL CHANCE 100 YEAR FLOODPLAIN) AS IDENTIFIED BY FEMA FLOOD INSURANCE RATE MAP 3720144400K, EFFECTIVE JULY 19, 2012.*
6. NO BUILDINGS, STRUCTURES OR OTHER IMPROVEMENTS, MATERIALS AND SURFACES, INCLUDING BUT NOT LIMITED TO PRINCIPLE AND ACCESSORY STRUCTURES AND ADDITIONS AND APPURTENANCES THERETO, SIGNAGE, FENCES, WALLS, MECHANICAL EQUIPMENT, CANOPIES, ANNTENNAS, MASTS, DEBRIS, SOLID WASTE COLLECTION CONTAINERS, MAIL RECEPTACLES, AND IMPERVIOUS SURFACES SHALL NOT ENCROACH WITHIN ANY DEDICATED EASEMENT WITHOUT PRIOR APPROVAL OF CITY/TOWN OF CLINTON PUBLIC UTILITIES DEPARTMENT.
7. SOIL EROSION AND SEDIMENTATION CONTROL PLAN APPROVAL BY NCDENR - LAND QUALITY SECTION REQUIRED PRIOR TO INITIATION OF ANY LAND DISTURBING ACTIVITIES.
8. WETLANDS ARE VALUABLE NATURAL RESOURCES THAT PROVIDE IMPORTANT ECOLOGICAL FUNCTIONS. BE ADVISED THAT ACTIVITIES IN WETLANDS ARE REGULATED BY THE FEDERAL GOVERNMENT UNDER SECTION 404 OF THE CLEAN WATER ACT. JURISDICTIONAL WETLANDS MAY INCLUDE THE PINE-SHRUB POCOSINS THAT ARE COMMON IN THIS REGION. IF ANY PRIVATE LAND OWNER, DEVELOPER, CORPORATION, OR OTHER PERSON PROPOSES TO UNDERTAKE CONSTRUCTION/FILLING ACTIVITIES IN OR NEAR A LAKE, STREAM, CREEK TRIBUTARY OR ANY UNNAMED BODY OF WATER INCLUDING ITS ADJACENT WETLANDS, FEDERAL PERMIT AUTHORIZATION MAY BE REQUIRED FROM THE U.S. ARMY CORPS OF ENGINEERS PRIOR TO COMMENCEMENT OF SUCH LAND-DISTURBING ACTIVITIES. PLEASE CONTACT MS. TRACY WHEELER, TELEPHONE (252) 975-1616 FOR A WETLAND DETERMINATION AND INFORMATION REGARDING SPECIFIC PERMIT REQUIREMENTS. WETLANDS DETERMINATION PENDING, BY OTHERS.
9. APPROVAL OF SITE PLAN DOES NOT CONSTITUTE APPROVAL OF SIGNS. SEPARATE SIGN PERMITS ARE REQUIRED.
10. ALL SLOPES SHALL BE 3:1 (HORIZONTAL:VERTICAL) MAXIMUM UNLESS NOTED OTHERWISE.
11. ALL AREAS NOT PAVED SHALL BE TOPSOILED, SEEDED, MULCHED OR LANDSCAPED/SODDED UNLESS OTHERWISE NOTED IN THE CONSTRUCTION DRAWINGS, SITE SPECIFICATIONS OR INSTRUCTED BY THE OWNER.
12. CONTRACTOR SHALL CONTACT THE FOLLOWING NCDOT OFFICE PRIOR TO BEGINNING WORK WITHIN RIGHT OF WAY (MIN. 5 DAYS NOTICE REQUIRED): SAMPSON COUNTY DISTRICT ENGINEER'S OFFICE (910)982-5100.
13. ALL REQUIRED IMPROVEMENTS SHALL COMPLY WITH THE TOWN OF CLINTON ZONING ORDINANCE.
14. REFUSE COLLECTION SHALL BE PROVIDED BY PRIVATE CONTRACTOR.
15. CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING A CONSTRUCTION ACCESS ROAD A MINIMUM OF 15' WIDE FROM THE EXISTING PAVEMENT TO THE SITE ENTRANCE. INSTALL A MINIMUM DEPTH OF 6" CABC.

EXISTING	PROPOSED
PROPERTY LINE	
ADJ. PROPERTY LINE	
RIGHT OF WAY	
–160– MAJOR TOPO	
–159– MINOR TOPO	
TREE LINE	
DITCH CENTERLINE	
TOP OF DITCH	
	ASPHALT LOT
	ASPHALT ROAD
	FUTURE ROAD
	5' CRUSHER RUN TRAIL
	5' WOOD MULCH TRAIL

NO	REVISION	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 12324 ENGINEER STEPHEN JANOSKI

J K F ARCHITECTURE

625 LYNNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

RAI Project #2023011

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EDA INVESTMENT NO. 04-01-07418
SCO# 19-20081-01A; NCCCS #2436

40' 0 20' 40'
SCALE 1 inch = **40** ft

STAR COMMUNICATIONS NEW HEADQUARTERS

CITY OF CLINTON- SAMPSON COUNT- NC

DRAWING TITLE
SITE PLAN-SOUTH

SCALE: AS SHOWN	DRAWING NO: C 1.11
DRAWN: MS	
CHECKED: JSJ	
DATE: 07-15-2023	
PROJECT NO.: 202311	

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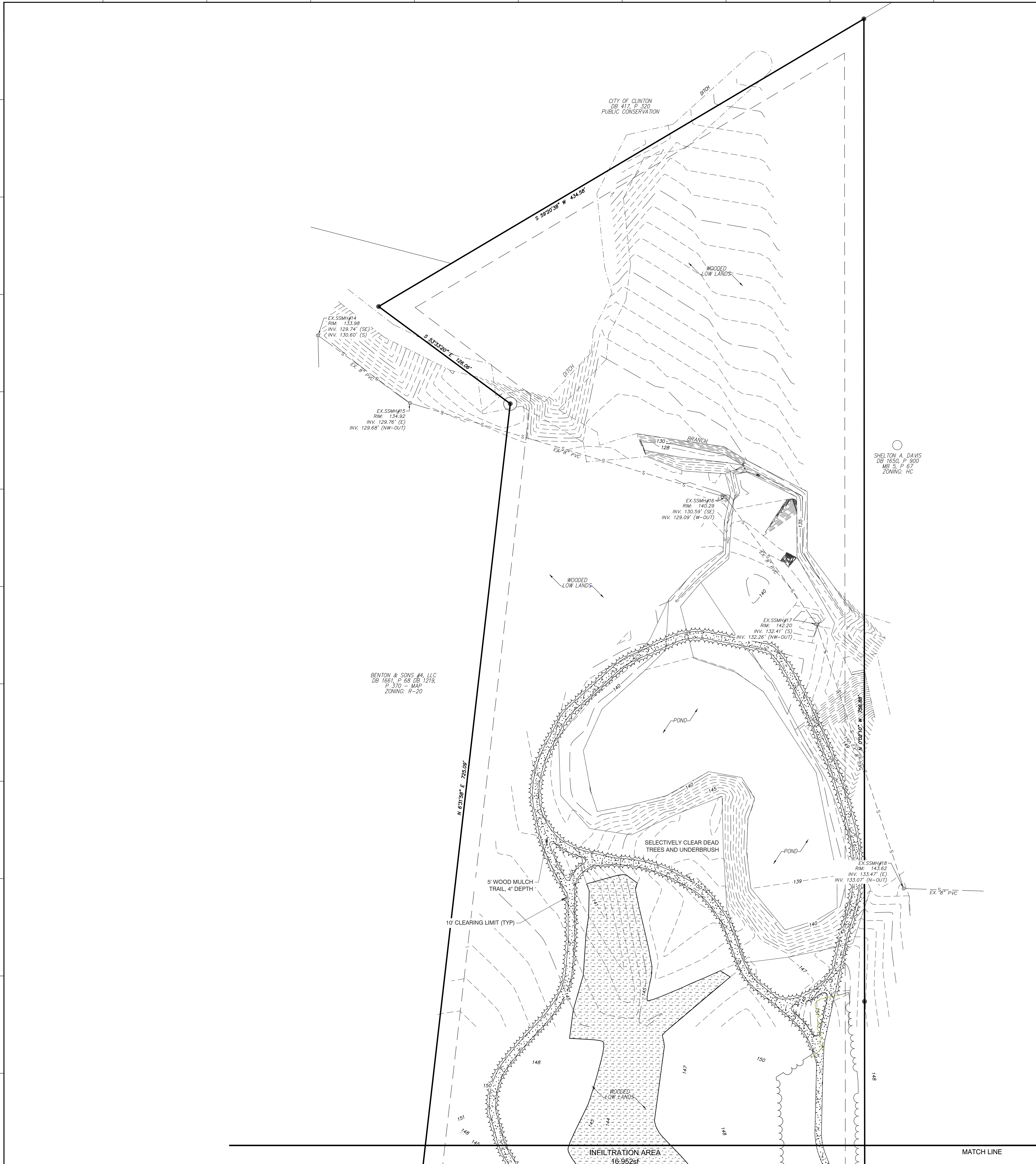
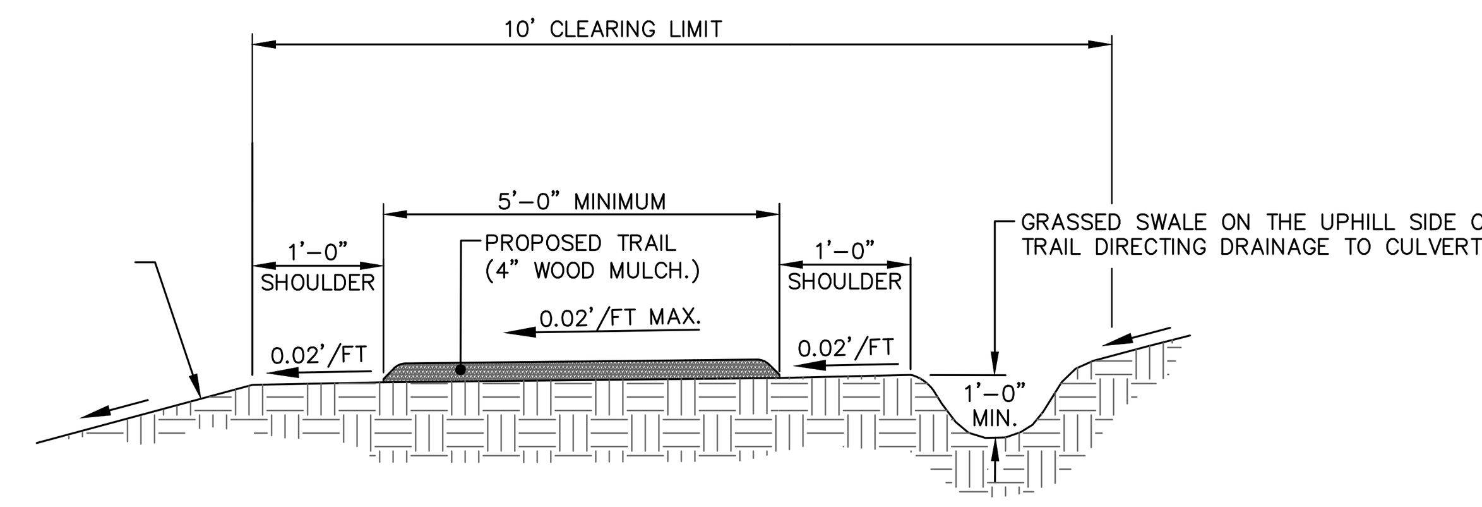
R:\LANDDEV\JKF-STAR_COMM_CLINTON-20230111\CADD_DWGS\SHEETS\SITE PLAN-SOUTH.DWG - C 1.11 SITE PLAN-SOUTH - 7/18/2023 11:24:40 AM - SAM FLOYD





NOTE:
TRAIL IS TO BE CONSTRUCTED OF 4" OF TREE MULCH FROM TREES CLEARED. FINAL ALIGNMENT OF THE TRAILS SHALL BE DETERMINED BY THE ARCHITECT IN COORDINATION WITH THE CONTRACTOR PRIOR TO THE INSTALLATION OF THE TRAILS.

TYPICAL SECTION

STANDARD 5-FT TREE MULCH TRAIL

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40' 0 20' 40'
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GENERAL NOTES

EXISTING		PROPOSED
	PROPERTY LINE	
	ADJ. PROPERTY LINE	
	RIGHT OF WAY	
-160-	MAJOR TOPO	
-159-	MINOR TOPO	
	TREE LINE	
	DITCH CENTERLINE	
	TOP OF DITCH	
	ASPHALT LOT	▨
	ASPHALT ROAD	▨
	FUTURE ROAD	
	5' CRUSHER RUN TRAIL	▨
	5' WOOD MULCH TRAIL	▨

NO	REVISION	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 12324 ENGINEER J. STEPHEN JANOWSKI
7/14/23

JKF ARCHITECTURE

625 LYNNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

STAR COMMUNICATIONS
NEW HEADQUARTERS
CITY OF CLINTON- SAMPSON COUNT- NC

DRAWING TITLE
SITE PLAN-NORTH

SCALE: AS SHOWN
DRAWN: MS
CHECKED: JSJ
DATE: 07-15-2023
PROJECT NO.: 202311
DRAWING NO: C 1.12

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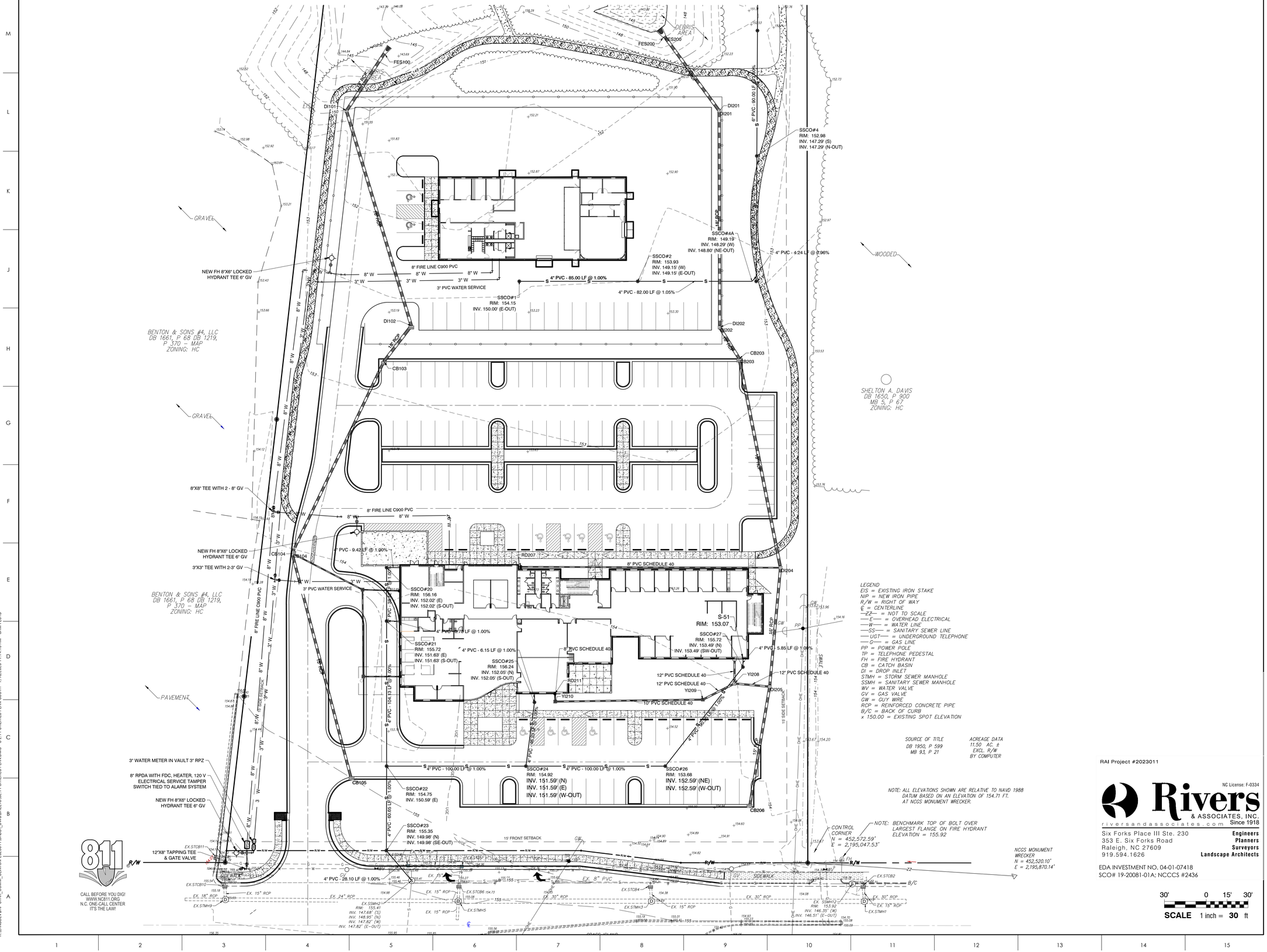

GENERAL NOTES

NO	REVISION	DATE

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER STEPHEN JANOWSKI 037241

JKF ARCHITECTURE

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RAI Project #2023011

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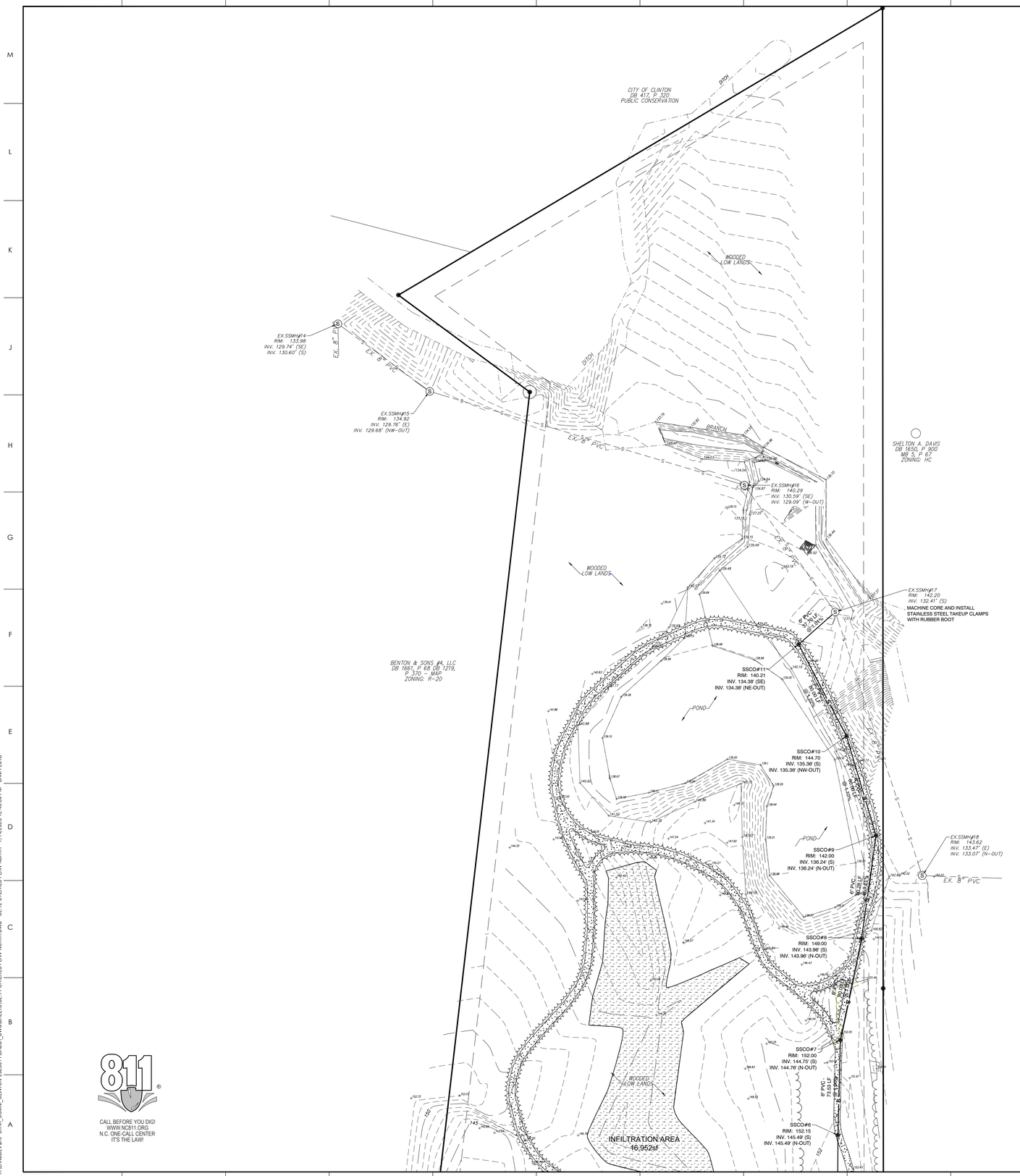
STAR COMMUNICATIONS
NEW HEADQUARTERS
CITY OF CLINTON- SAMPSON COUNT- NC

DRAWING TITLE
UTILITIES PLAN-SOUTH

SCALE	AS SHOWN
DRAWN	MS
CHECKED	JSJ
DATE	07-15-2023
PROJECT NO.	202311
DRAWING NO	C 2.11

R:\LANDDEV\JKF STAR_COMM_CLINTON_20230111\CADD_DWG\SHEETS\C2.11 UTILITIES PLAN.DWG - C 2.11 UTILITIES PLAN-SOUTH - 7/18/2023 11:14:13 AM - SAM FLOYD



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GENERAL NOTES

NO	REVISION	DATE

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 12822 STEPHEN JANOWSKI

J K F
ARCHITECTURE

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40' 0 20' 40'
SCALE 1 inch = **40** ft

STAR COMMUNICATIONS
NEW HEADQUARTERS
CITY OF CLINTON- SAMPSON COUNT- NC

DRAWING TITLE
UTILITIES PLAN-NORTH

SCALE: AS SHOWN	DRAWING NO: C2.12
DRAWN: MS	
CHECKED: JSJ	
DATE: 07-15-2023	
PROJECT NO.: 202311	

STRUCTURE TABLE

NAME	DETAILS
CB103	RIM= 152.95' INV= 147.81' (SW) INV= 147.81' (NE-OUT)
CB104	RIM= 154.45' INV= 149.31' (S) INV= 149.31' (SE) INV= 149.27' (NE-OUT)
CB105	RIM= 154.54' INV= 150.32' (N-OUT)
CI-BOX 106	RIM= 155.28' INV= 149.65' (S) INV= 150.03' (E) INV= 149.65' (NW-OUT)
CI-BOX 107	RIM= 155.98' INV= 150.03' (E) INV= 150.03' (N-OUT)
DI101	RIM= 151.60' INV= 144.80' (S) INV= 144.80' (NE-OUT)
DI102	RIM= 152.30' INV= 147.29' (SW) INV= 147.29' (N-OUT)
FES100	RIM= 145.79' INV= 144.00' (SW)
RD108	RIM= 156.50' INV= 150.18' (W-OUT)
RD109	RIM= 156.48' INV= 150.18' (W-OUT)
S-57	RIM= 150.79'

PIPE TABLE

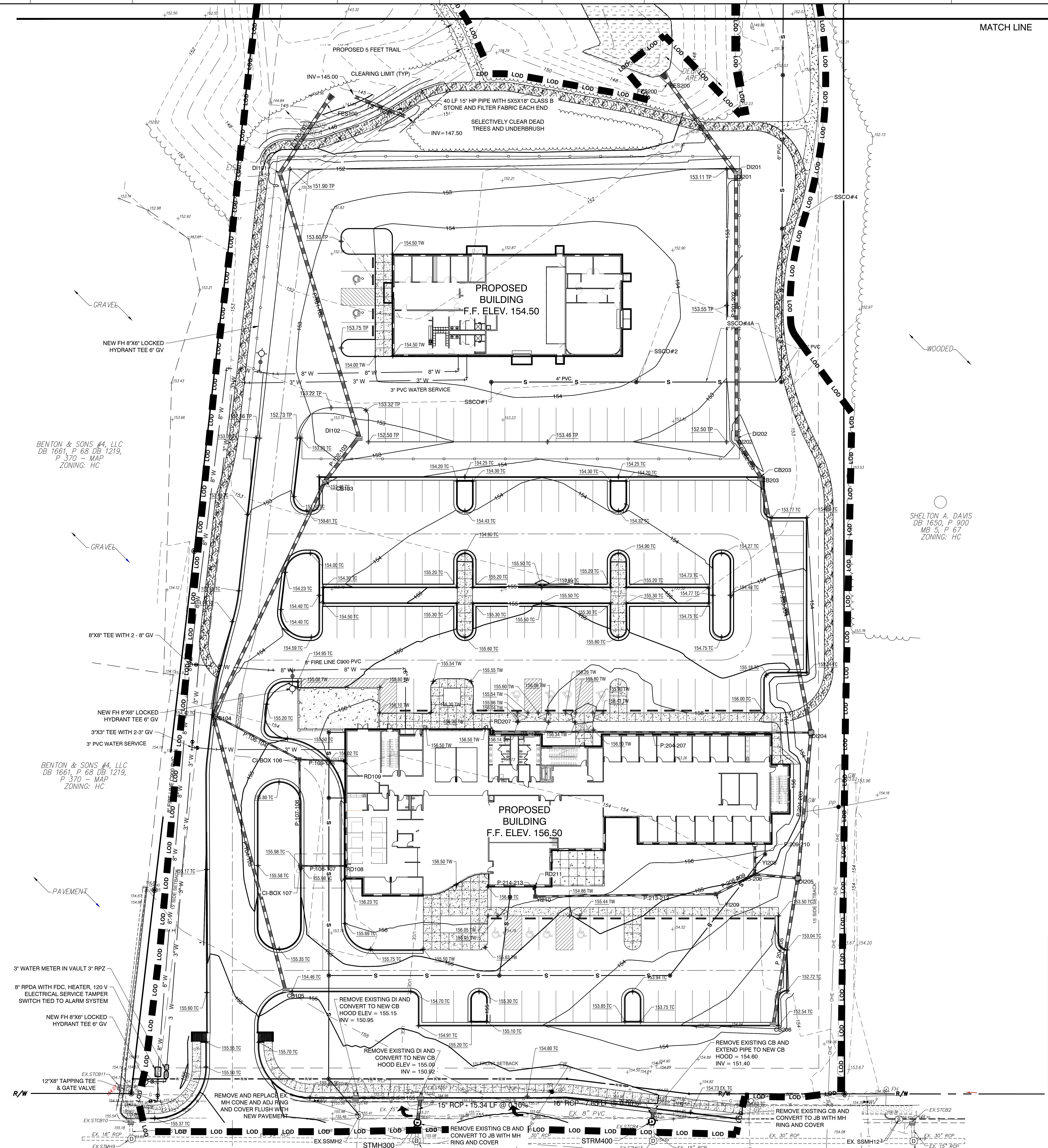
PIPE NAME	SIZE	MATERIAL	LENGTH	SLOPE
P:100-101	18"	RCP	49.30'	1.62%
P:101-102	18"	RCP	161.19'	1.54%
P:102-103	18"	RCP	32.35'	1.61%
P:103-104 (1)	15"	RCP	152.57'	0.96%
P:104-105	15"	RCP	168.20'	0.60%
P:106-104	8"	PVC SCHEDULE 40	56.95'	0.60%
P:107-106	8"	PVC SCHEDULE 40	62.36'	0.60%
P:108-107	6"	PVC SCHEDULE 40	26.41'	0.60%
P:109-106	6"	PVC SCHEDULE 40	26.42'	0.60%

PIPE TABLE

PIPE NAME	SIZE	MATERIAL	LENGTH	SLOPE
P:200-201	18"	RCP	66.38'	0.74%
P:201-202	18"	RCP	153.92'	0.75%
P:202-203	18"	RCP	26.57'	0.72%
P:203-204	18"	RCP	151.40'	0.60%
P:204-205	15"	RCP	84.24'	0.63%
P:204-207	8"	PVC SCHEDULE 40	186.35'	1.00%
P:205-208	12"	PVC SCHEDULE 40	25.39'	0.93%
P:208-209	12"	PVC SCHEDULE 40	25.42'	3.11%
P:209-210	12"	PVC SCHEDULE 40	17.65'	0.16%
P:213-212	10"	PVC SCHEDULE 40	105.97'	0.28%
P:214-213	8"	PVC SCHEDULE 40	5.62'	11.89%
P_204-205	15"	RCP	87.96'	0.60%

STRUCTURE TABLE

NAME	DETAILS
CB203	RIM= 153.42' INV= 147.84' (S) INV= 147.84' (NW-OUT)
CB206	RIM= 152.55' INV= 149.81' (N-OUT)
DI201	RIM= 152.30' INV= 146.49' (S) INV= 146.49' (NW-OUT)
DI202	RIM= 152.30' INV= 147.65' (SE) INV= 147.65' (N-OUT)
DI204	RIM= 153.00' INV= 148.75' (S) INV= 148.75' (W) INV= 148.75' (N-OUT)
DI205	RIM= 153.00' INV= 149.28' (S) INV= 149.28' (W) INV= 149.28' (N-OUT)
FES200	RIM= 147.79' INV= 146.00' (SE)
RD207	RIM= 156.50' INV= 150.61' (E-OUT)
RD211	RIM= 156.50' INV= 151.27' (S-OUT)
RD212	RIM= 156.50' INV= 150.53' (S-OUT)
YI208	RIM= 154.97' INV= 149.52' (SW) INV= 150.50' (N) INV= 149.51' (E-OUT)
YI209	RIM= 154.77' INV= 150.30' (W) INV= 150.31' (NE-OUT)
YI210	RIM= 156.16' INV= 150.60' (N) INV= 150.60' (E-OUT)



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

GENERAL NOTES

EXISTING		PROPOSED
	PROPERTY LINE	
	ADJ. PROPERTY LINE	
	RIGHT OF WAY	
—160—	MAJOR TOPO	160
— 159 —	MINOR TOPO	159
	TREE LINE	
	DITCH CENTERLINE	
	TOP OF DITCH	
	REINF. CONC. PIPE	
	GRADE BREAK	
	SLOPE ARROW	-1.1%
155.86	SPOT ELEVATION	EOP 162.80
	ASPHALT	
	FUTURE ROAD	

RAI Project #2023011

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SCO# 19-20081-01A; NCCCS #2436

NO	REVISION	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 12324 ENGINEER J. STEPHEN JANOWSKI

JKF ARCHITECTURE

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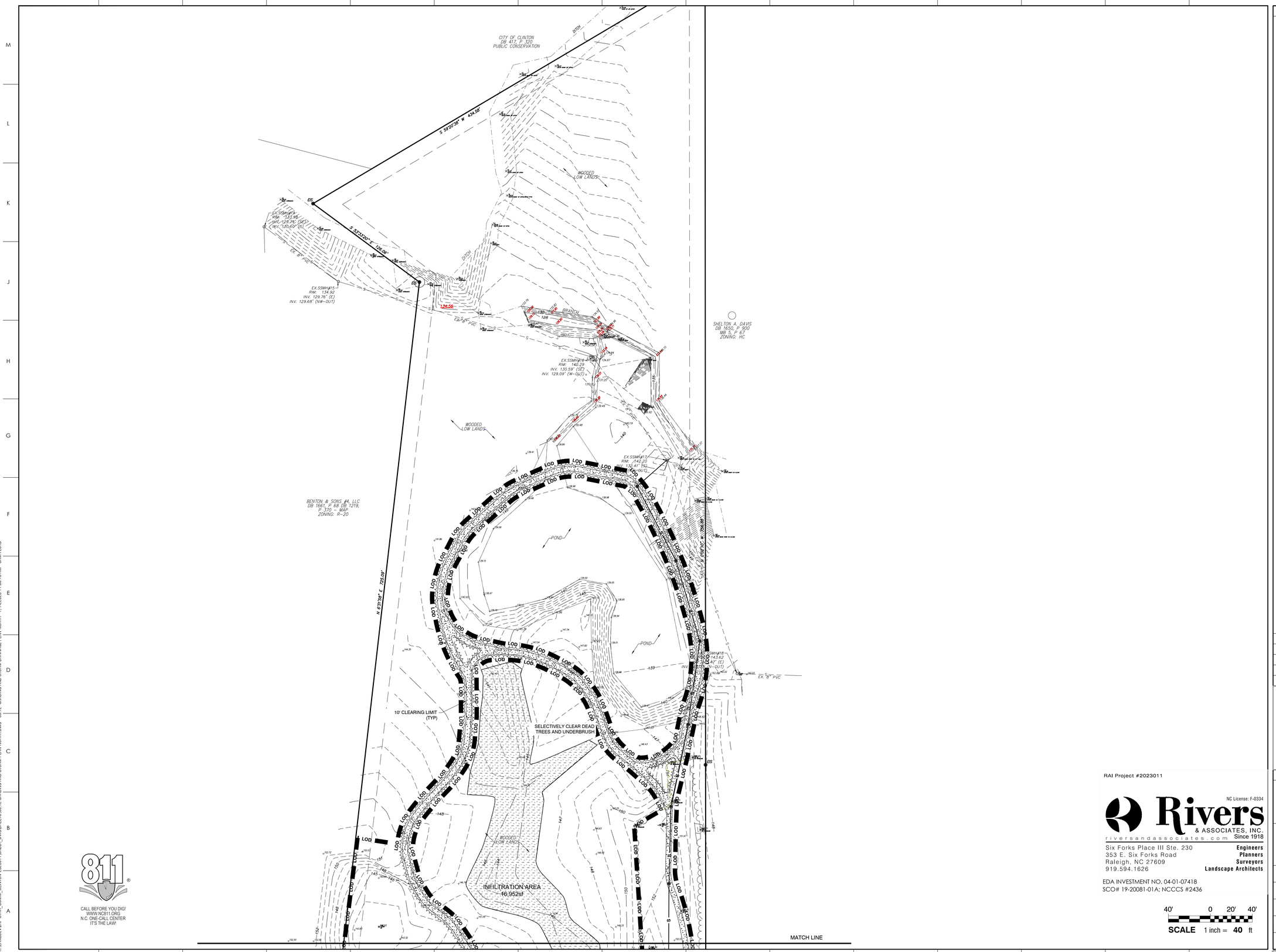
STAR COMMUNICATIONS
NEW HEADQUARTERS
CITY OF CLINTON- SAMPSON COUNT- NC

DRAWING TITLE
GRADING AND STORM DRAINAGE PLAN-SOUTH

SCALE	AS SHOWN
DRAWN	MS
CHECKED	JSJ
DATE	07-15-2023
PROJECT NO.	202311
DRAWING NO	C 3.11



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GENERAL NOTES

EXISTING		PROPOSED
	PROPERTY LINE	
	ADJ. PROPERTY LINE	
R/W	RIGHT OF WAY	
160	MAJOR TOPO	160
159	MINOR TOPO	159
	TREE LINE	
	DITCH CENTERLINE	
	TOP OF DITCH	
	REINF. CONC. PIPE	
	GRADE BREAK	
	SLOPE ARROW	-1.1%
155.80	SPOT ELEVATION	EOP 162.80
	ASPHALT	
	FUTURE ROAD	

NO	REVISION	DATE

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 12321 ENGINEER STEPHEN JANOUSEK

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STAR COMMUNICATIONS
NEW HEADQUARTERS
CITY OF CLINTON- SAMPSON COUNT- NC

DRAWING TITLE
GRADING AND STORM
DRAINAGE PLAN-NORTH

SCALE: AS SHOWN	DRAWING NO: C3.12
DRAWN: MS	
CHECKED: JSJ	
DATE: 07-15-2023	
PROJECT NO.: 202311	

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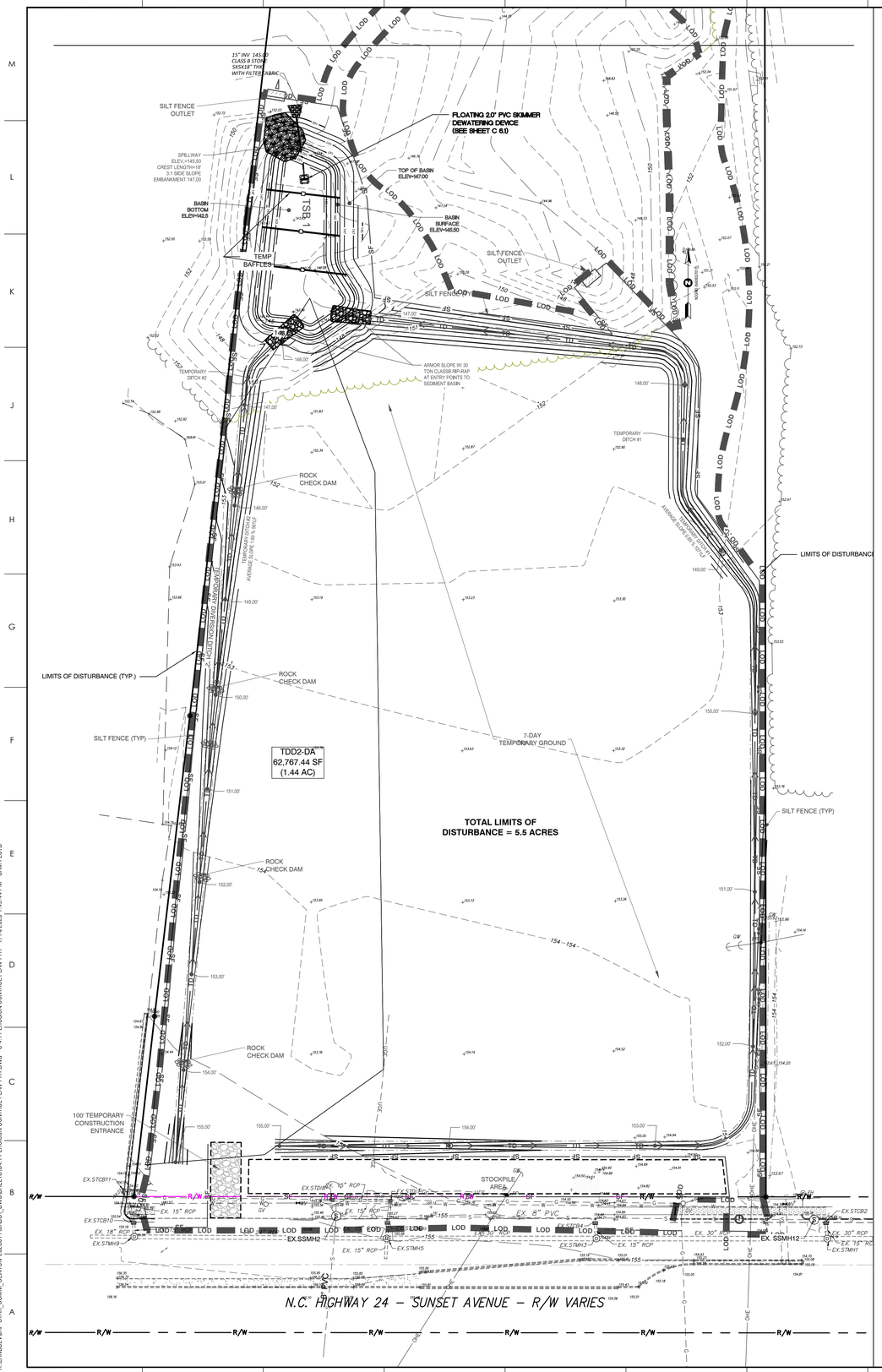

SKIMMER BASIN

CONSTRUCTION SPECIFICATIONS:
1) CLEAR, GRUB AND STRIP THE AREA UNDER THE EMBANKMENT OF ALL VEGETATION AND ROOT MAT. REMOVE ALL SURFACE SOILCONTAINING HIGH AMOUNTS OF ORGANIC MATTER AND STOCKPILE OR DISPOSE OF IT PROPERLY. HAUL ALL OBJECTIONABLE MATERIAL TO THE DESIGNATED DISPOSAL AREA. PLACE TEMPORARY SEDIMENT CONTROL MEASURES BELOW BASIN AS NEEDED.
2) ENSURE THAT FILL MATERIAL FOR THE EMBANKMENT IS FREE OF ROOTS, WOODY VEGETATION, ORGANIC MATTER, AND OTHEROBJECTIONABLE MATERIAL. PLACE THE FILL IN LIFTS NOT TO EXCEED 9 INCHES, AND MACHINE COMPACT IT. OVER FILL THE EMBANKMENT 6 INCHES TO ALLOW FOR SETTLEMENT.
3) SHAPE THE BASIN TO THE SPECIFIED DIMENSIONS. PREVENT THE SKIMMING DEVICE FROM SETTLING INTO THE MUD BY EXCAVATING A SHALLOW PIT UNDER THE SKIMMER OF PROVIDING A LOW SUPPORT UNDER THE SKIMMER OF STONE OR TIMBER.
4) PLACE THE BARREL (TYPICALLY 4-INCH SCHEDULE 40 PVC PIPE) ON A FIRM, SMOOTH FOUNDATION OF IMPERVIOUS SOIL. DO NOT USE PERVIOUS MATERIAL SUCH AS SAND, GRAVEL, OR CRUSHED STONE AS BACKFILL AROUND THE PIPE. PLACE THE FILL MATERIAL AROUND THE PIPE SPILLWAY IN 4-INCH LAYERS AND COMPACT IT UNDER AND AROUND THE PIPE TO AT LEAST THE SAME DENSITY\ AS THE ADJACENT EMBANKMENT. CARE MUST BE TAKEN NOT TO RAISE THE PIPE FROM THE FIRM CONTACT WITH ITS FOUNDATION WHEN COMPACTING UNDER THE PIPE HAUNCHES.

PLACE A MINIMUM DEPTH OF 2 FEET OF COMPACTED BACKFILL OVER THE PIPE SPILLWAY BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT. IN NO CASE SHOULD THE PIPE CONDUIT BE INSTALLED BY CUTTING A TRENCH THROUGH THE DAM AFTER THE EMBANKMENT IS COMPLETE.

5) ASSEMBLE THE SKIMMER FOLLOWING THE MANUFACTURERS INSTRUCTIONS, OR AS DESIGNED.
6) LAY THE ASSEMBLED SKIMMER ON THE BOTTOM OF THE BASIN WITH THE FLEXIBLE JOINT AT THE INLET OF THE BARREL PIPE.ATTACH THE FLEXIBLE JOINT TO THE BARREL PIPE AND POSITION THE SKIMMER OVER THE EXCAVATED PIT OR SUPPORT. BE SURE TO ATTACH A ROPE TO THE SKIMMER AND ANCHOR IT TO THE SIDE OF THE BASIN. THIS WILL BE USED TO PULL THE SKIMMER TOTHE SIDE FOR MAINTENANCE.
7) EARTHEN SPILLWAYS - INSTALL THE SPILLWAY IN UNDISTURBED SOIL TO THE GREATEST EXTENT POSSIBLE. THE ACHIEVEMENT OF PLANNED ELEVATIONS, GRADE, DESIGN WIDTH, AND ENTRANCE AND EXIT CHANNEL SLOPES ARE CRITICAL TO THE SUCCESSFUL OPERATION OF THE SPILLWAY. THE SPILLWAY SHOULD BE LINED WITH LAMINATED PLASTIC OR IMPERMEABLE GEOTEXTILE FABRIC. THE FABRIC MUST BE WIDE AND LONG ENOUGH TO COVER THE BOTTOM AND SIDES AND EXTEND ONTO THE TOP OF THE DAM FOR ANCHORING IN A TRENCH. THE EDGES MAY BE SECURED WITH 8-INCH STAPLES OR PINS. THE FABRIC MUST BE LONG ENOUGH TO EXTEND DOWN THE SLOPE AND EXIT ONTO STABLE GROUND. THE WIDTH OF THE FABRIC MUST BE ONE PIECE, NOT JOINED OR SPLICED; OTHERWISE WATER CAN GET UNDER THE FABRIC. IF THE LENGTH OF THE FABRIC IS INSUFFICIENT FOR THE ENTIRE LENGTH OF THE SPILLWAY, MULTIPLE SECTIONS, SPANNING THE COMPLETE WIDTH, MAY BE USED. THE UPPER SECTION(S) SHOULD OVERLAP THE LOWER SECTION(S) SO THAT WATER CANNOT FLOW UNDER THE FABRIC. SECURE THE UPPER EDGE AND SIDES OF THE FABRIC IN A TRENCH WITH STAPLES OR PINS.
8) INLETS - DISCHARGE WATER INTO THE BASIN IN A MANNER TO PREVENT EROSION. USE TEMPORARY SLOPE DRAINS OR DIVERSIONS WITH OUTLET PROTECTION TO DIVERT SEDIMENT-LADEN WATER TO THE UPPER END OF THE POOL AREA TO IMPROVE BASIN TRAP EFFICIENCY
9) EROSION CONTROL - CONSTRUCT THE STRUCTURE SO THAT THE DISTURBED AREA IS MINIMIZED. DIVERT SURFACE WATER AWAY FROM BARE AREAS. COMPLETE THE EMBANKMENT BEFORE THE AREA IS CLEARED. STABILIZE THE EMERGENCY SPILLWAY EMBANKMENT AND ALL OTHER DISTURBED AREAS ABOVE THE CREST OF THE PRINCIPAL SPILLWAY IMMEDIATELY AFTER CONSTRUCTION.
10) INSTALL POROUS BAFFLES.
11) AFTER ALL THE SEDIMENT-PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE THE STRUCTURE AND ALL THE UNSTABLE SEDIMENT. SMOOTH THE AREA TO BLEND WITH THE ADJOINING AREAS AND STABILIZE PROPERLY.

MAINTENANCE:
INSPECT SKIMMER SEDIMENT BASINS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (ONE-HALF INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE HEIGHT OF THE FIRST BAFFLE PULL THE SKIMMER TO ONE SIDE SO THAT THE SEDIMENT UNDERNEATH IT CAN BE EXCAVATED. EXCAVATE THE SEDIMENT FROM THE ENTIRE BASIN, NOT JUST AROUND THE SKIMMER OF THE FIRST CELL. MAKE SURE VEGETATION GROWING IN THE BOTTOM OF THE BASIN DOES NOT HOLD DOWN THE SKIMMER.

REPAIR THE BAFFLES IF THEY ARE DAMAGED. RE-ANCHOR THE BAFFLES IF WATER IS FLOWING UNDERNEATH OR AROUND THEM.

IF THE SKIMMER IS CLOGGED WITH TRASH AND THERE IS WATER IN THE BASIN, USUALLY JERKING ON THE ROPE WILL MAKE THE SKIMMER BOB UP AND DOWN AND DISLODGE THE DEBRIS AND RESTORE FLOW. IF THIS DOES NOT WORK, PULL THE SKIMMER OVER TO THE SIDE OF THE BASIN AND REMOVE THE DEBRIS. ALSO CHECK THE ORIFICE INSIDE THE SKIMMER TO SEE IF IT IS CLOGGED; IF SO REMOVE THE DEBRIS.

IF THE SKIMMER ARM OR BARREL PIPE IS CLOGGED, THE ORIFICE CAN BE REMOVED AND THE OBSTRUCTION CLEARED WITH A PLUMBER'S SNAKE OR BY FLUSHING WITH WATER. BE SURE AND REPLACE THE ORIFICE BEFORE REPOSITIONING THE SKIMMER.

CHECK THE FABRIC LINED SPILLWAY FOR DAMAGE AND MAKE ANY REQUIRED REPAIRS WITH FABRIC THAT SPANS THE FULL WIDTH OF THE SPILLWAY. 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 SKIMMER AND POOL AREAS.

FREEZING WEATHER CAN RESULT IN ICE FORMING IN THE BASIN. SOME SPECIAL PRECAUTIONS SHOULD BE TAKEN IN THE WINTER TO PREVENT THE SKIMMER FROM PLUGGING WITH ICE.

CONSTRUCTION SCHEDULE

1. OBTAIN PLAN APPROVALS AND ALL APPLICABLE PERMITS.
2. FLAG LIMITS OF ROUGH GRADING AND ESTABLISH GRADE LIMITS AS NEEDED.
3. CONTACT LAND QUALITY SECTION AT 910-433-3300 AND THEN HOLD PRECONSTRUCTION MEETING WITH GRADING CONTRACTOR, EROSION CONROL ADMINISTRATOR, PROJECT ENGINEER AND OWNER BEFORE WORK BEGINS
4. INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE.
5. INSTALL THE PERIMETER SEDIMENT FENCES AS THE FIRST CONSTRUCTION ACTIVITY CLEAR ENOUGH TO INSTALL SILT FENCE AND DIVERSION SWALES.
6. INSTALL DIVERSION SWALES AND TEMPORARY SEDIMENT BASIN.
7. PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES 14 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING FOR SLOPES 3:1 OR FLATTER INCLUDING ALL OTHER SLOPES 4:1 OR FLATTER. PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES WITHIN 7 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING FOR SLOPES 3:1 OR STEEPER INCLUDING ALL PERMANENT DIKES, SWALES, DITCHES AND SLOPES AND DISTRUBANCES WITHIN HIGH QUALITY WATER (HQWQ) ZONES.
8. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES MAY BE REQUIRED BY THE STATE OR OWNER IF DEEMED NECESSARY.
9. AFTER SITE IS STABILIZED, REMOVE ALL TEMPORARY MEASURES, FINE GRADE DISTURBED AREAS, AND INSTALL PERMANENT VEGETATION ON DISTURBED AREAS.
10. MAINTAIN PERMANENT VEGETATION BY TOP DRESSING WITH 700 LBS PER ACRE OF FERTILIZER EVERY 6 MONTHS UNTIL THE COMPLETION OF THE PROJECT.
11. WITHIN 6" OF FINAL GRADE, RE-DISTRIBUTE 6" OF TOP SOIL
12. FINE GRADE, PERMANENTLY SEED AND MULCH ALL DISTURBED AREAS
13. REMOVE ALL REMAINING TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES UPON COMPLETION AND STABILIZATION OF PROJECT.

TOTAL DISTURBED AREA = 6.00 ACRES

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GENERAL NOTES

FILL COMPACTION REQUIREMENTS

ITEM	STRUCTURAL FILL	GENERAL FILL
MAXIMUM LIFT THICKNESS	9 INCHES OR LESS IN LOOSE THICKNESS WHEN HEAVY, SELF-PROPELLED COMPACTION EQUIPMENT IS USED. 4 TO 6 INCHES IN LOOSE THICKNESS WHEN HAND-GUIDED EQUIPMENT (I.E. JUMPING JACK OR PLATE COMPACTORS) IS USED.	SAME AS STRUCTURAL FILL
MINIMUM COMPACTION REQUIREMENTS[1, 2]	95% OF MAX.	95% OF MAX.
WATER CONTENT RANGE [1]	-2% TO +2% OF OPTIMUM	AS REQUIRED TO ACHIEVE MIN. COMPACTION REQUIREMENTS

1. MAXIMUM DENSITY AND OPTIMUM WATER CONTENT AS DETERMINED BY THE STANDARD PROCTOR TEST (ASTM D 698).
2. HIGH PLASTICITY COHESIVE FILL SHOULD NOT BE COMPACTED TO MORE THAN 100% OF STANDARD PROCTOR MAXIMUM DRY DENSITY.

EXISTING		PROPOSED
	PROPERTY LINE	
	ADJ. PROPERTY LINE	
R/W	RIGHT OF WAY	
160	MAJOR TOPO	160
159	MINOR TOPO	159
	TREE LINE	
	DITCH CENTERLINE	
	TOP OF DITCH	
	REINF. CONC. PIPE	
	GRADE BREAK	
	SLOPE ARROW	-7.1%
153.88	SPOT ELEVATION	EOP 162.80
	ASPHALT	
	FUTURE ROAD	

NO	REVISION	DATE

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 12324 ENGINEER STEPHEN JANSEN

RAI Project #2023011

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919.594.1626

Engineers
Planners
Surveyors
Landscape Architects

EDA INVESTMENT NO. 04-01-07418
SCO# 19-20081-01A; NCCCS #2436

40' 0 20' 40'
SCALE 1 inch = 40 ft

JKF ARCHITECTURE

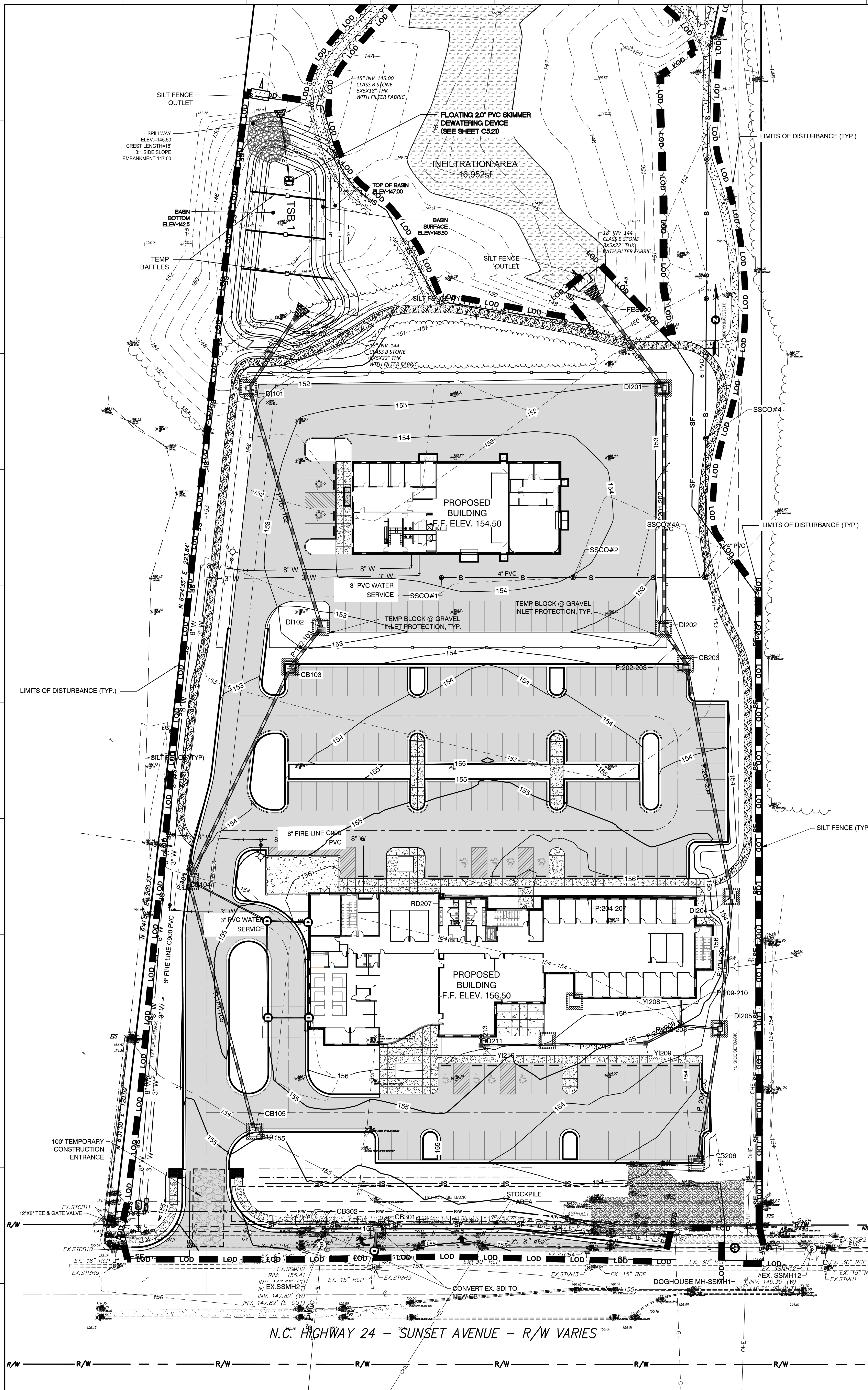
625 LYNNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

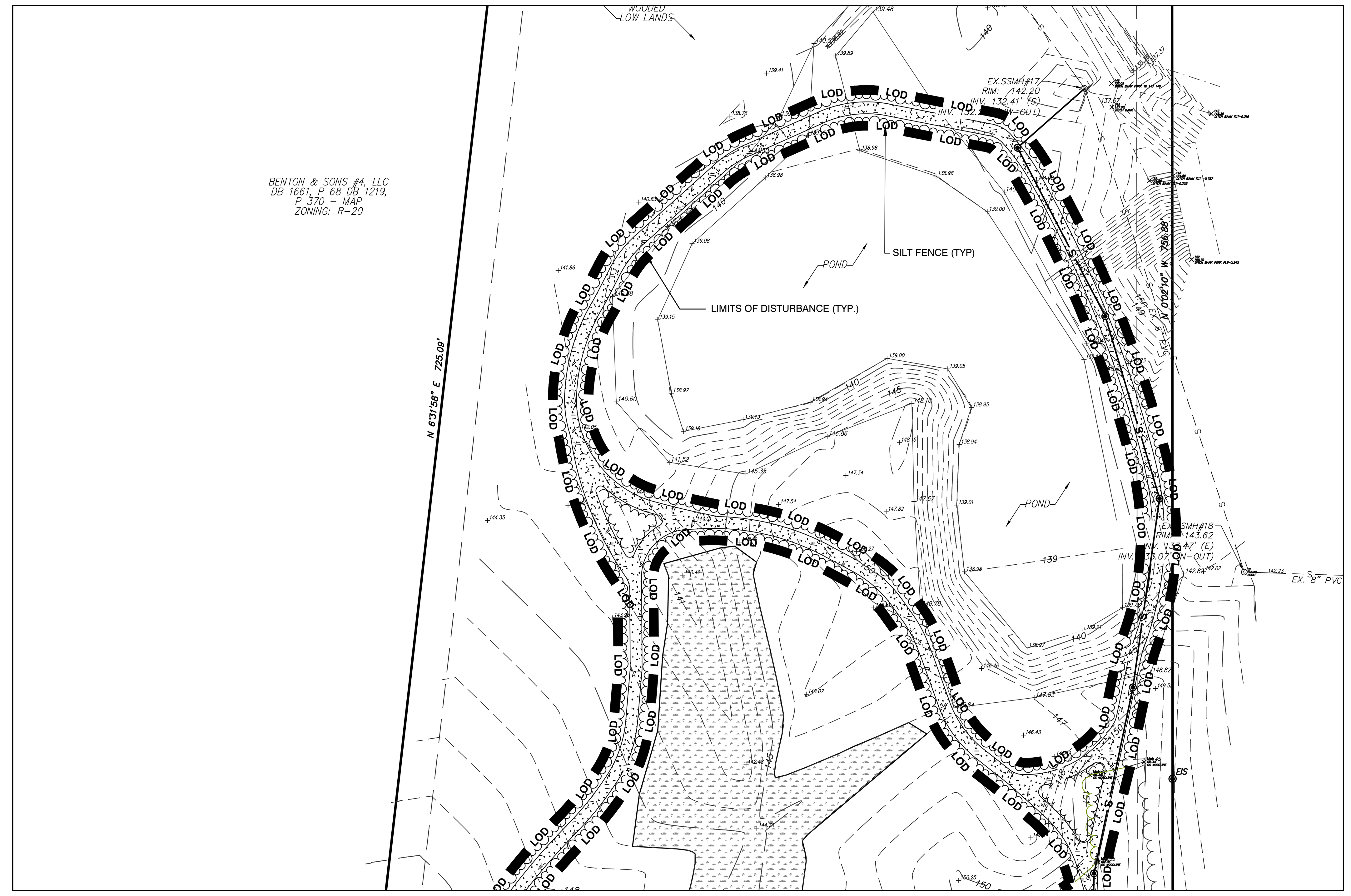
STAR COMMUNICATIONS
NEW HEADQUARTERS
CITY OF CLINTON- SAMPSON COUNT- NC

DRAWING TITLE
EROSION CONTROL PLAN-PH1

SCALE	AS SHOWN
DRAWN	MS
CHECKED	JSJ
DATE	07-15-2023
PROJECT NO.	202311
DRAWING NO	C 4.11

P:\LANDDEV\JKF-STAR_COMM_CLINTON-20230111\CADD_DWGS\SHEETS\C4.11 EROSION CONTROL PLAN-PH1.DWG - C 4.11 EROSION CONTROL PLAN-PH1 - 7/14/2023 1:49:44 PM - SAM.FLOYD





TOTAL DISTURBED AREA = 6.00 ACRES

TEMPORARY GROUND COVER SPECIFICATIONS AND MAINTENANCE REQUIREMENTS

1. COMPLETE GRADING BEFORE PREPARING SEEDBEDS, AND INSTALL ALL NECESSARY EROSION CONTROL PRACTICES SUCH AS, DIKES, WATERWAYS, AND BASINS. MINIMIZE STEEP SLOPES BECAUSE THEY MAKE SEEDBED PREPARATION DIFFICULT AND INCREASE THE EROSION HAZARD. IF SOILS BECOME COMPACTED DURING GRADING, LOOSEN THEM TO A DEPTH OF 6-8 INCHES USING A RIPPER, HARROW, OR CHISEL PLOW. SEEDBED PREPARATION
2. GOOD SEEDBED PREPARATION IS ESSENTIAL TO SUCCESSFUL PLANT ESTABLISHMENT. A GOOD SEEDBED IS WELL-PULVERIZED, LOOSE, AND UNIFORM. WHERE HYDROSEEDING METHODS ARE USED, THE SURFACE MAY BE LEFT WITH A MORE IRREGULAR SURFACE OF LARGE CLODS AND STONES.
3. LIMING - APPLY LIME ACCORDING TO SOIL TEST RECOMMENDATIONS. IF THE PH(ACIDITY) OF THE SOIL IS NOT KNOWN, AN APPLICATION OF GROUND AGRICULTURAL LIMESTONE AT THE RATE OF 1 TO 1 1/2 TONS/ACRE ON COARSE-TEXTURED SOILS AND 2-3 TONS/ACRE ON FINE- TEXTURED SOILS IS USUALLY SUFFICIENT. APPLY LIMESTONE UNIFORMLY AND INCORPORATE INTO THE TOP 4-6 INCHES OF SOIL. SOILS WITH A PH OF 6 OR HIGHER NEED NOT BE LIMED.
4. FERTILIZER - BASE APPLICATION RATES ON SOIL TESTS. WHEN THESE ARE NOT POSSIBLE, APPLY A 10-10-10 GRADE FERTILIZER AT 700-1,000 LB/ACRE. BOTH FERTILIZER AND LIME SHOULD BE INCORPORATED INTO THE TOP 4-6 INCHES OF SOIL. IF A HYDRAULIC SEEDER IS USED, DO NOT MIX SEED AND FERTILIZER MORE THAN 30 MINUTES BEFORE APPLICATION.
5. SURFACE ROUGHENING - IF RECENT TILLAGE OPERATIONS HAVE RESULTED IN A LOOSE SURFACE, ADDITIONAL ROUGHENING MAY NOT BE REQUIRED, EXCEPT TO BREAK UP LARGE CLODS. IF RAINFALL CAUSES THE SURFACE TO BECOME SEALED OR CRUSTED, LOOSEN IT JUST PRIOR TO SEEDING BY DISKING, RAKING, HARROWING, OR OTHER SUITABLE METHODS. GROOVE OR FURROW SLOPES STEEPER THAN 3:1 ON THE CONTOUR BEFORE SEEDING (PRACTICE 6.03, SURFACE ROUGHENING).

PLANT SELECTION

6. SELECT AN APPROPRIATE SPECIES OR SPECIES MIXTURE FROM TABLE 6.10A FOR SEEDING IN LATE WINTER AND EARLY SPRING, TABLE 6.10B FOR SUMMER, AND TABLE 6.10C FOR FALL.
7. IN THE MOUNTAINS, DECEMBER AND JANUARY SEEDINGS HAVE POOR CHANCES OF SUCCESS. WHEN IT IS NECESSARY TO PLANT AT THESE TIMES, USE RECOMMENDATIONS FOR FALL AND A SECURELY TACKED MULCH.

SEEDING

8. EVENLY APPLY SEED USING A CYCLONE SEEDER (BROADCAST), DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. USE SEEDING RATES GIVEN IN TABLES 6.10A-6.10C. BROADCAST SEEDING AND HYDROSEEDING ARE APPROPRIATE FOR STEEP SLOPES WHERE EQUIPMENT CANNOT BE DRIVEN. HAND BROADCASTING IS NOT RECOMMENDED BECAUSE OF THE DIFFICULTY IN ACHIEVING A UNIFORM DISTRIBUTION.
9. SMALL GRAINS SHOULD BE PLANTED NO MORE THAN 1 INCH DEEP, AND GRASSES AND LEGUMES NO MORE THAN 1/2 INCH. BROADCAST SEED MUST BE COVERED BY RAKING OR CHAIN DRAGGING, AND THEN LIGHTLY FIRMED WITH A ROLLER OR CULTIPACKER. HYDROSEEDED MIXTURES SHOULD INCLUDE A WOOD FIBER (CELLULOSE) MULCH.

MULCHING

10. THE USE OF AN APPROPRIATE MULCH WILL HELP ENSURE ESTABLISHMENT UNDER NORMAL CONDITIONS, AND IS ESSENTIAL TO SEEDING SUCCESS UNDER HARSH SITE CONDITIONS (PRACTICE 6.14, MULCHING). HARSH SITE CONDITIONS INCLUDE:

SEEDING IN FALL FOR WINTER COVER (WOOD FIBER MULCHES ARE NOT CONSIDERED ADEQUATE FOR THIS USE),
SLOPES STEEPER THAN 3: 1,
EXCESSIVELY HOT OR DRY WEATHER,
ADVERSE SOILS (SHALLOW, ROCKY, OR HIGH IN CLAY OR SAND), AND
AREAS RECEIVING CONCENTRATED FLOW.

IF THE AREA TO BE MULCHED IS SUBJECT TO CONCENTRATED WATERFLOW, AS IN CHANNELS, ANCHOR MULCH WITH NETTING (PRACTICE 6.14, MULCHING).

MAINTENANCE

RESEED AND MULCH AREAS WHERE SEEDLING EMERGENCE IS POOR, OR WHERE EROSION OCCURS, AS SOON AS POSSIBLE. DO NOT MOW. PROTECT FROM TRAFFIC AS MUCH AS POSSIBLE.

CONSTRUCTION SCHEDULE - PHASE 2

1. INSTALL STORM DRAINAGE PIPING AND END OF DAY MEASURES.
2. INSTALL CONCRETE WASHOUT AREA PRIOR TO CONSTRUCTION OF STORM DRAINAGE STRUCTURES.
3. INSTALL INLET PROTECTION AROUND CATCH BASINS AND DROP INLETS AND INSTALL RIP RAP PROTECTION AND ENERGY DISIPATORS.
4. FINAL GRADE THE BUILDING PAD INSTALL GRAVEL AND CURB AND GUTTER IN PREPARATION FOR LAYDOWN AREA.
5. FINE GRADE AND PAVE SIDEWALK.
6. PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES 14 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING FOR SLOPES 3:1 OR FLATTER INCLUDING ALL OTHER SLOPES 4:1 OR FLATTER. PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES WITHIN 7 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING FOR SLOPES 3:1 OR STEEPER INCLUDING ALL PERMANENT DIKES, SWALES, DITCHES AND SLOPES AND DISTRUBANCES WITHIN HIGH QUALITY WATER (HQWQ) ZONES.
7. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES MAY BE REQUIRED BY THE STATE OR OWNER IF DEEMED NECESSARY.
8. MAINTAIN PERMANENT VEGETATION BY TOP DRESSING WITH 700 LBS PER ACRE OF FERTILIZER EVERY 6 MONTHS UNTIL THE COMPLETION OF THE PROJECT.
9. WITHIN 6" OF FINAL GRADE, RE-DISTRIBUTE 6" OF TOP SOIL.
10. FINE GRADE, PERMANENTLY SEED AND MULCH ALL LANDSCAPED AREAS.
11. REMOVE ALL REMAINING TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES UPON COMPLETION AND STABILIZATION OF PROJECT, AND FINAL CONSTRUCTION AND STABILIZATION OF CONSTRUCTED WETLAND.

GENERAL NOTES

EROSION CONTROL LEGEND

DESCRIPTION	SYMBOL	DETAIL
SILT FENCE	— SF —	
SILT FENCE OUTLET		
INLET PROTECTION		
PIPE INLET PROTECTION		
GRAVEL CONSTRUCTION ENTRANCE		
TEMPORARY CHECK DAM		
LIMITS OF DISTURBANCE	— LOD —	

FILL COMPACTION REQUIREMENTS

ITEM	STRUCTURAL FILL	GENERAL FILL
MAXIMUM LIFT THICKNESS	9 INCHES OR LESS IN LOOSE THICKNESS WHEN HEAVY, SELF-PROPELLED COMPACTION EQUIPMENT IS USED. 4 TO 6 INCHES IN LOOSE THICKNESS WHEN HAND-GUIDED EQUIPMENT (I.E. JUMPING JACK OR PLATE COMPACTOR) IS USED.	SAME AS STRUCTURAL FILL
MINIMUM COMPACTION REQUIREMENTS [1, 2]	95% OF MAX.	95% OF MAX.
WATER CONTENT RANGE [1]	-2% TO +2% OF OPTIMUM	AS REQUIRED TO ACHIEVE MIN. COMPACTION REQUIREMENTS

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2. HIGH PLASTICITY COHESIVE FILL SHOULD NOT BE COMPACTED TO MORE THAN 100% OF STANDARD PROCTOR MAXIMUM DRY DENSITY.

EXISTING / PROPOSED

PROPERTY LINE
ADJ. PROPERTY LINE
RIGHT OF WAY
MAJOR TOPO (160)
MINOR TOPO (159)
TREE LINE
DITCH CENTERLINE
TOP OF DITCH
REINF. CONC. PIPE
GRADE BREAK
SLOPE ARROW (-1.1%)
SPOT ELEVATION (155.86; EOP 162.80)
ASPHALT
FUTURE ROAD

NO	REVISION	DATE

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 12324 J. STEPHEN JANOWSKI

JKF ARCHITECTURE

625 LYNNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

STAR COMMUNICATIONS NEW HEADQUARTERS
CITY OF CLINTON- SAMPSON COUNT- NC

DRAWING TITLE: EROSION CONTROL PLAN-PH2

SCALE: AS SHOWN
DRAWN: MS
CHECKED: JSJ
DATE: 07-15-2023
PROJECT NO.: 202311
DRAWING NO: C 4.12

RAI Project #2023011

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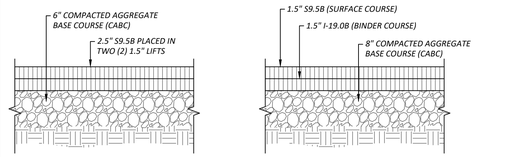
SCALE 1 inch = 40 ft

R:\LANDDEV\JKF-STAR_COMM_CLINTON-2023011\CADD_DWG\SHEETS\C4.12 EROISON CONTROL PLAN-PH2.DWG - C 4.12 EROSION CONTROL PLAN-PH2 - 7/14/2023 2:21:18 PM - SAM FLOYD

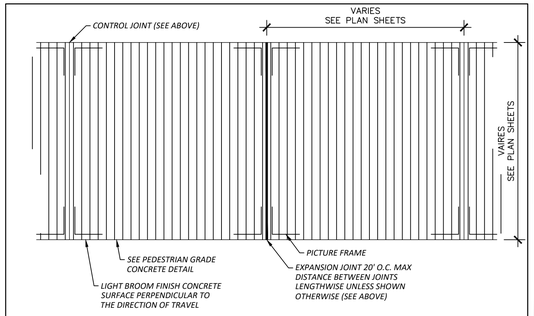


ASPHALT PAVING SECTION
LIGHT-DUTY

ASPHALT PAVING SECTION
HEAVY-DUTY

TYP. PAVEMENT SECTIONS

NTS



BROOM FINISH AND SCORING SINGLE DIRECTION

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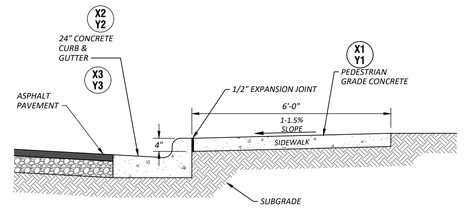
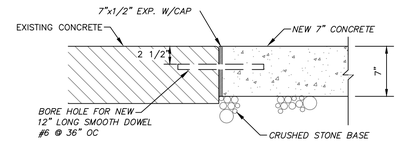


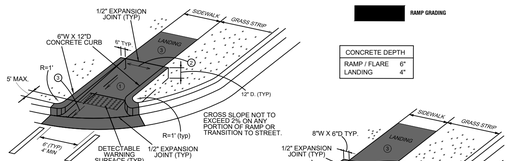
PARKING LOT PAVEMENT & SIDEWALK SECTION (TYP)

NTS

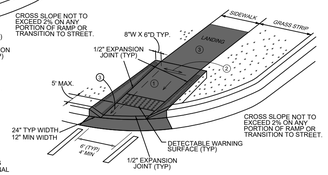


NEW AND EXISTING CONCRETE CONNECTION

NTS



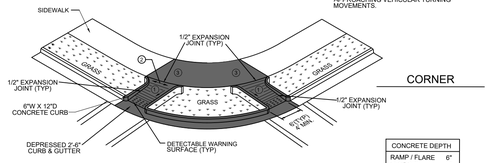
IN-LINE CURB TYPE



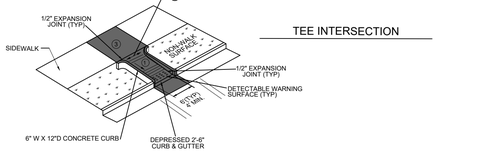
IN-LINE FLARE TYPE)

NOTE: USE SMALL FLARES ONLY WHEN A CURB TYPE DIRECTLY CONFLICTS WITH APPROACHING VEHICULAR TURNING MOVEMENTS.

1. 8.33% (12:1) MAX RAMP SLOPE
2. CROSS SLOPE: 2.00%
3. CURB RAMPS REQUIRE A (4'-0") MINIMUM LANDING WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SLOPE TO DRAIN TO CURB.



CORNER



TEE INTERSECTION

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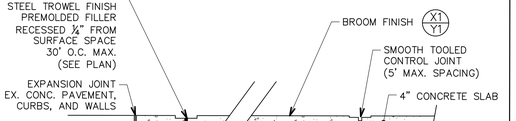
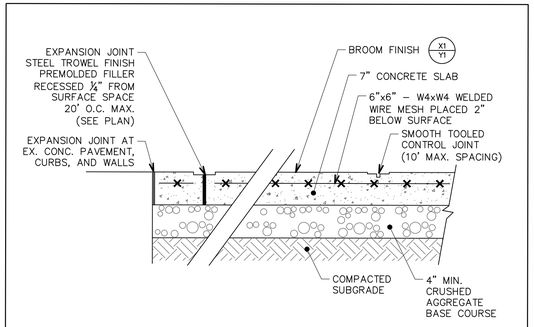


PEDESTRIAN GRADE CONCRETE

NTS

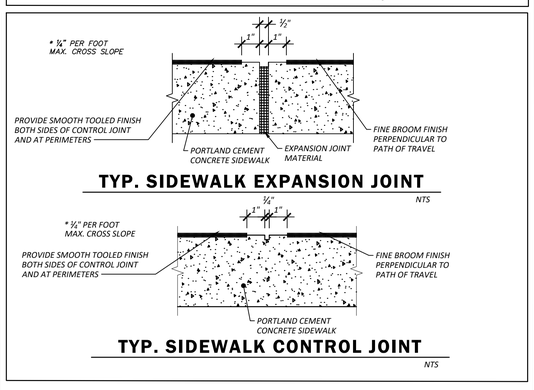


VEHICULAR GRADE CONCRETE

NTS

CONCRETE VALLEY GUTTER

NTS

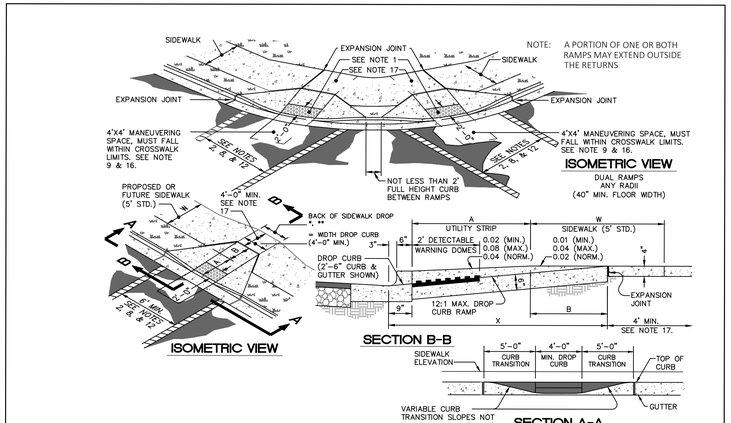


TYP. SIDEWALK EXPANSION JOINT

NTS

TYP. SIDEWALK CONTROL JOINT

NTS



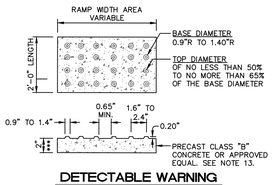
NOTE: A PORTION OF ONE OR BOTH RAMPS MAY EXTEND OUTSIDE THE RETURNS

ISOMETRIC VIEW

DUAL RAMPS
ANY RADII
(40" MIN. FLOOR WIDTH)

SECTION B-B

SECTION A-A



DETECTABLE WARNING DOMES

DETECTABLE WARNING DOME NOTES:

1. *DETECTABLE WARNING DOMES WILL COVER 2'–0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.*
2. *DETECTABLE WARNING DOMES WILL CONTRAST VISIBILITY WITH ADJOINING SURFACE, EITHER LIGHT–ON–DARK, OR DARK–ON–LIGHT SEQUENCE COVERING THE ENTIRE RAMP.*

W	A	W + A + 9"	X	B
5'	0.0'	5.8'	5.8'	5.0' *
6'	0.0'	6.8'	6.8'	6.0' **
7'	0.0'	7.8'	7.3'	6.5' **
8'	0.0'	8.8'	7.3'	6.5' **
5'	1.5'	7.3'	7.5'	5.2'
5'	2.0'	7.8'	7.8'	5.0'
5'	2.5'	8.3'	8.1'	4.8'
5'	3.0'	8.8'	8.3'	4.4'
5'	3.5'	9.3'	8.3'	4.1'
5'	4.0'	9.8'	8.6'	3.8'
5'	4.5'	10.3'	8.7'	3.4'
5'	5.0'	10.8'	8.9'	3.1'

B	= X-(A+9")
B	= DISTANCE FROM FRONT EDGE OF SIDEWALK TO BACK POINT OF 12:1 (8.33%) SLOPE.
*	BACK OF SIDEWALK DROP REQUIRED FOR ALL SIDEWALK SLOPES.
**	BACK OF SIDEWALK DROP REQUIRED FOR SIDEWALK SLOPES 9.04.
***	THICKNESS MAY VARY FOR APPROVED EQUAL PRECAST MATERIAL

NOTES:

1. Construct the walking surface of the detectable domes with slip resistance and a 70% contrasting color to the sidewalk.
2. Crosswalk widths and configuration vary but must conform to traffic design standards.
3. Provide curb ramps at locations as shown on the plans or as directed by the engineer. Locate curb ramps as directed by the engineer where existing light poles, fire hydrants, drop inlets, etc. affect placement. Where two ramps are installed place not less than 2 feet of full height curb between the ramps. Place dual ramps as near perpendicular to the travel lane being crossed as possible.
4. Do not exceed 0.08 ft./ft. (12:1) slope on the curb ramp in relationship to the grade of the street.
5. Construct curb ramps a minimum of 48" wide (4'-0"); Greater for dual ramps.
6. Use class "B" concrete with a sidewalk finish in order to obtain a rough non-skid type surface.
7. Place a 1/2" expansion joint where the concrete curb ramp joins the curb.
8. Place the inside pedestrian crosswalk lines no closer in the intersection then would be established by bisecting the intersection radii, with an allowance of a 4'x4' maneuvering space (2003 ICC/ANSI a117 Commentary. Fig. C406.6 & 406.10) in the vehicular travel way when one ramp is installed.
9. Coordinate the curb cut and the pedestrian crosswalk lines so the floor of the curb ramp will fall within the pedestrian crosswalk lines. Place diagonal ramps with flared sides so 24" of the full height curb falls within the crosswalk markings on each side of the flares.
10. Construct the pedestrian crosswalk a minimum width of 6 feet. A crosswalk width of 10 feet or greater is required for all thoroughfares.
11. Use stop lines, normally perpendicular to the lane lines, where it is important to indicate the point behind which vehicles are required to stop in compliance with a traffic signal, stop sign or other legal requirement. An unusual approach skew may require the placement of the stop line to be parallel to the intersecting roadway.
12. Place all pavement markings in accordance with the latest edition of the Manual of Uniform Traffic Control Devices (MUTCD) published by the Federal Highway Administration and the North Carolina Supplement to the MUTCD.
13. Other detectable warning materials may be considered from that shown, but require City Engineer's written approval prior to installation.
14. For all roads with radius 25' or less. Only one curb ramp is required. Curb ramps to be placed as per traffic design standards to ensure pedestrians enter & exit without entering travel lanes.
15. Terminate parking a minimum of 20 feet back of pedestrian walk.
16. A 4'x4' maneuvering space is required at the bottom of the curb ramp and must be within the crosswalk.
17. Drop curb width (4'-0" min.) x 4' long landing required at top of curb ramp
18. North Carolina General Statute 136-44.14 requires that all street curbs being constructed or reconstructed for maintenance procedures, traffic operations, repairs, correction of utilities or altered for any reason after September 1, 1973 shall provide curb ramps for the physically disabled at all intersections where both curb and gutter and sidewalks are provided and at other points of pedestrian flow.
In addition, section 228 of the 1973 Federal Aid Highway Safety Act requires provision of curb ramps on any curb construction after July 1, 1976 whether a sidewalk is proposed initially or is planned for a future date.
The Americans with Disability Act (ADA) of 1990 extends to individuals with disabilities. Comprehensive civil rights protections similar to those provided to persons on the basis of race, sex, national origin and religion under the Civil Rights Act of 1964. These curb ramps have been designed to comply with the current ADA standards.
19. Construct all ramp surfaces to comply with sections R301 and R303.3.3 of the revised ADA guidelines.
20. Construct all ramps and sidewalks with a 2% cross slope.

STANDARD CURB RAMP

NTS

GENERAL NOTES

NO	REVISION	DATE

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 12324 ENGINEER STEPHEN JANUSKA

JKF ARCHITECTURE

625 LYNNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

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STAR COMMUNICATIONS
NEW HEADQUARTERS
CITY OF CLINTON- SAMPSON COUNT- NC

DRAWING TITLE
SITE DETAILS

SCALE	AS SHOWN
DRAWN	MS
CHECKED	JSJ
DATE	07-15-2023
PROJECT NO.	202311
DRAWING NO	C 5.1

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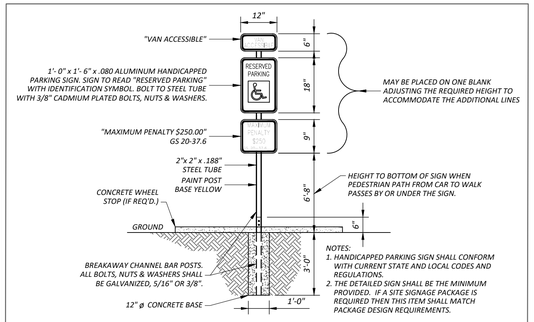
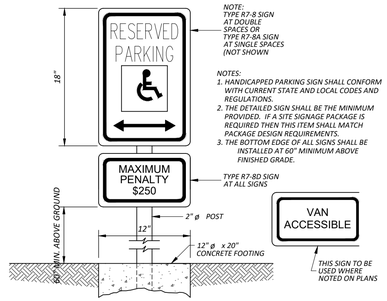


HANDICAP SIGN (VAN)

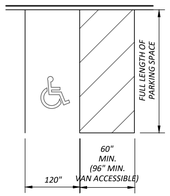
N.T.S



HANDICAP PARKING SIGN

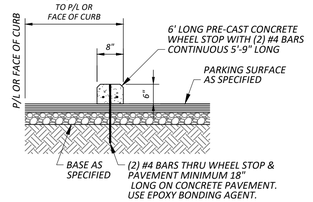
N.T.S

NOTES:
1. HANDICAPPED PARKING SPACE SHALL CONFORM WITH CURRENT STATE AND LOCAL CODES AND REGULATIONS.
2. VAN ACCESSIBLE SPACES AND ACCESS AISLES SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 98"
3. MINIMUM DIMENSIONS OF ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL COMPLY WITH ANSI/ICC A117.1-2009
4. FINISHED PAVEMENT SURFACE SHALL SLOPE FOR POSITIVE DRAINAGE, AND SHALL NOT EXCEED 2.00% IN ANY DIRECTION



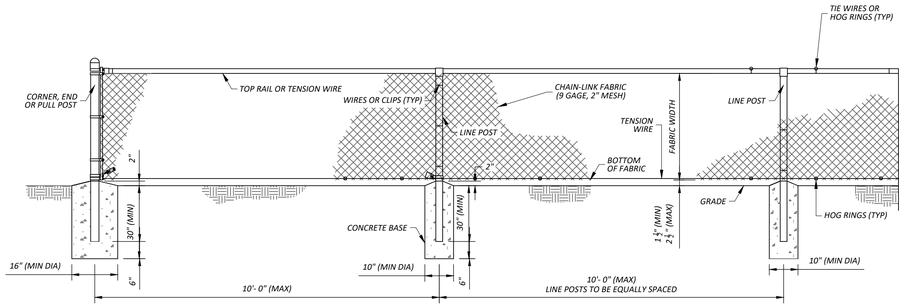
HANDICAP PARKING SLOPE REQUIREMENTS

N.T.S



CONCRETE WHEEL STOP

N.T.S

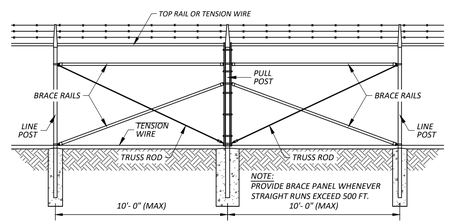


CHAIN-LINK SECURITY FENCE

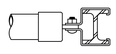
FENCE LEGEND:
TYPE FE5 - CHAIN-LINK FENCE WITHOUT BARBED-WIRE APRON
TYPE FE6 - CHAIN-LINK FENCE w/BARBED-WIRE ON SINGLE OUTRIGGER
TYPE FE7 - CHAIN-LINK FENCE w/BARBED WIRE ON DOUBLE OUTRIGGER
TYPE FE8 - CHAIN-LINK FENCE w/BARBED-WIRE & BARBED-TAPE ON DOUBLE OUTRIGGER
TR - FENCE WITH TOP RAIL & TENSION WIRE AT BOTTOM
TBR - FENCE WITH TOP & BOTTOM RAILS
TWB - TENSION WIRE TOP & BOTTOM
TWBR - FENCE WITH TOP TENSION WIRE & BOTTOM RAIL FINAL NUMBER IS FABRIC WIDTH IN INCHES.

EXAMPLES:
FE6-TR-72 - CHAIN-LINK SECURITY FENCE WITH BARBED-WIRE ON SINGLE OUTRIGGER, TOP RAIL, & 72 INCH FABRIC WIDTH.
FE5-TWB-84 - CHAIN-LINK SECURITY FENCE WITH NO APRON, TOP & BOTTOM TENSION WIRE, & 84 INCH FABRIC WIDTH.

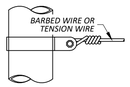
NOTES:
1) DETAILS SHOWN ARE TO CLARIFY REQUIREMENTS AND ARE NOT INTENDED TO LIMIT OTHER TYPES OF FENCE SECTIONS AND METHODS OF INSTALLATION THAT COMPLY WITH THE SPECIFICATIONS.
2) WIRE TIES, RAILS, POSTS, AND BRACES SHALL BE CONSTRUCTED ON THE SECURE SIDE OF THE FENCE ALIGNMENT. CHAIN-LINK FABRIC SHALL BE PLACED ON THE SIDE OPPOSITE THE SECURE AREA.
3) UNLESS SPECIFICALLY SHOWN OR SPECIFIED, ALL FE6 FENCE SHALL HAVE AN APRON EXTENDED OUTWARD FROM THE AREA BEING PROTECTED.
4) C-SECTION POSTS SHALL BE INSTALLED SO THAT THE VOID INSIDE THE POST IS COMPLETELY FILLED WITH CONCRETE UP TO THE TOP OF THE FOUNDATION.



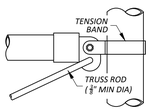
BRACE PANEL



BRACE RAIL CLAMP

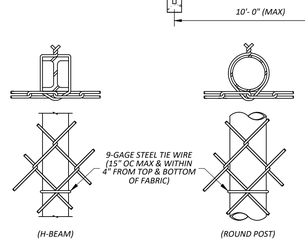


TENSION BAND

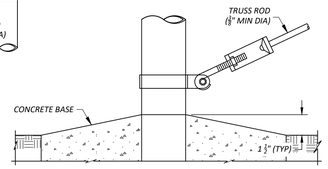


ROUND POST

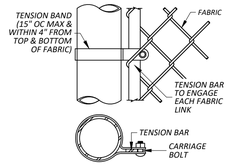
STEEL POST SCHEDULE			
TYPE	MINIMUM OUTSIDE DIMENSIONS (NOMINAL)		
	FABRIC WIDTH 72" OR LESS	FABRIC WIDTH 84" TO 96"	FABRIC WIDTH 108" & OVER
CORNER, END & PULL POSTS			
TUBULAR - ROUND	2.375" O.D.	2.875" O.D.	4.00" O.D.
TUBULAR - SQUARE	2.00" SQ.	2.50" SQ.	3.00" SQ.
C-SECTION (ROLL-FORMED)	3.50"x 3.50"	3.50"x 3.50"	
LINE POSTS			
TUBULAR - ROUND	1.90" O.D.	2.375" O.D.	2.875" O.D. 2.25"
H- SECTION	2.25"x 1.70" 1.875"x	2.25"x 1.70"	x 1.70"
C-SECTION (ROLL-FORMED)	1.625"	2.25"x 1.70"	
TOP, BOTTOM & BRACE RAILS			
TUBULAR - ROUND	1.66" O.D.		
TUBULAR - SQUARE	1.50" SQ.		
H-SECTION	1.625"x 1.50"		
C-SECTION (ROLL-FORMED)	1.625"x 1.25"		



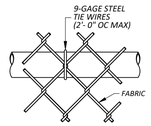
LINE POST ATTACHMENTS



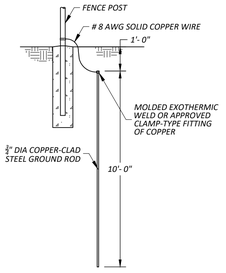
TRUSS ROD & BAND



END OR GATE POST



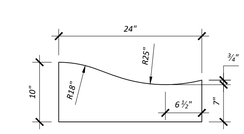
TOP OR BRACE RAIL ATTCHMENT



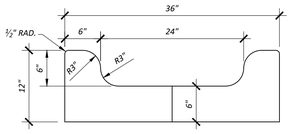
GROUNDING

48" HT. CHAIN LINK SECURITY FENCE

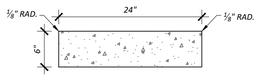
N.T.S



24" ROLL TYPE GUTTER



SPECIAL GUTTER



24" CONCRETE BAND

GENERAL NOTES:

CONTRACTION JOINTS SHALL BE SPACED AT 10' INTERVALS, EXCEPT THAT A 15' SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE FACE FORM CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT 10' INTERVALS. JOINT SPACING MAY BE ALTERED BY THE ENGINEER TO PREVENT UNCONTROLLED CRACKING.

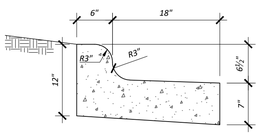
CONTRACTION JOINTS MAY BE INSTALLED BY THE USE OF TEMPLATES OR FORMED BY OTHER APPROVED METHODS. WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1-½" SHALL BE OBTAINED.

ALL CONTRACTION JOINTS SHALL BE FILLED WITH JOINT FILLER

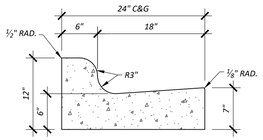
EXPANSION JOINTS SHALL BE SPACED AT 90' INTERVALS, AND ADJACENT TO ALL RIGID OBJECTS.

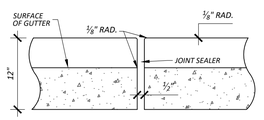
ALL CURB AND GUTTERS ARE TO BE POURED WITH CLASS "A" CONCRETE. (3000 PSI).

FLEXIBLE FORMS ARE TO BE USED WHEN RADII IS LESS THAN 200'.



SPILL CURB AND GUTTER





STANDARD CURB AND GUTTER

CURB AND GUTTER DETAILS

NTS

GENERAL NOTES

RAI Project #2023011

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Engineers
Planners
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Landscape Architects

EDA INVESTMENT NO. 04-01-07418
SCO# 19-20081-01A; NCCCS #2436

NO	REVISION	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 23247 ENGINEER STEPHEN JANOSKY

JKF ARCHITECTURE

625 LYNNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

STAR COMMUNICATIONS
NEW HEADQUARTERS
CITY OF CLINTON- SAMPSON COUNT- NC

DRAWING TITLE
SITE DETAILS

SCALE	AS SHOWN
DRAWN	MS
CHECKED	JSJ
DATE	07-15-2023
PROJECT NO.	202311
DRAWING NO	C 5.2

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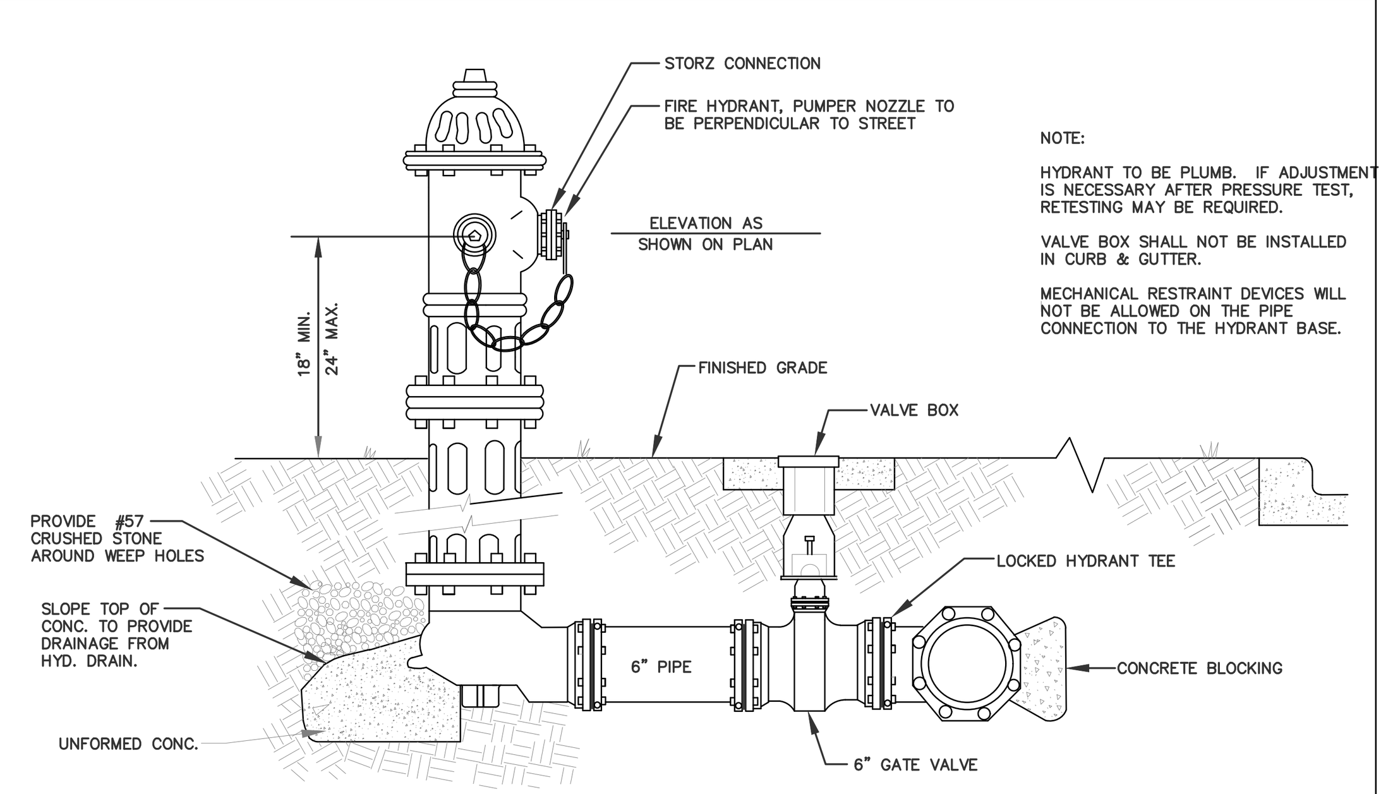


NOTE:

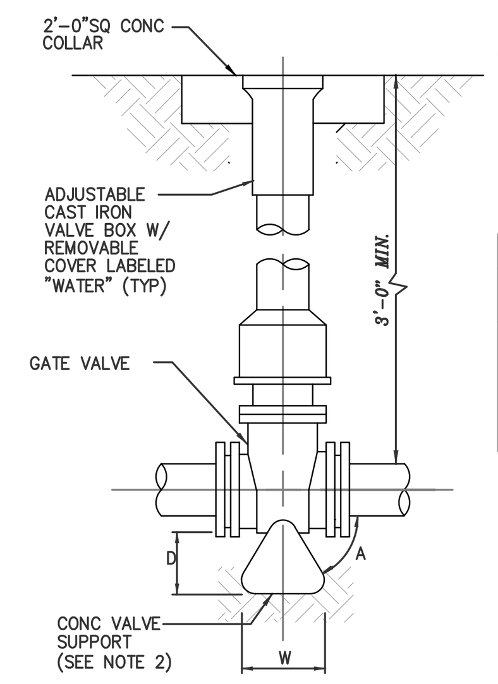
HYDRANT TO BE PLUMB. IF ADJUSTMENT IS NECESSARY AFTER PRESSURE TEST, RETESTING MAY BE REQUIRED.

VALVE BOX SHALL NOT BE INSTALLED IN CURB & GUTTER.

MECHANICAL RESTRAINT DEVICES WILL NOT BE ALLOWED ON THE PIPE CONNECTION TO THE HYDRANT BASE.

FIRE HYDRANT INSTALLATION (FOR AREAS WITH CURB AND GUTTER)

NTS



NOTES:
1. DIMENSION "D" SHALL BE LARGE ENOUGH TO MAKE ANGLE "A" EQUAL TO OR GREATER THAN 45°.
2. CONCRETE SHALL NOT INTERFERE WITH MECH. JOINT FITTINGS.

CONC BLOCKING SIZE		
PIPE SIZE	W	D
3"	1'-0"	SEE NOTE 1
4"	1'-0"	
6"	1'-3"	
8"	1'-6"	
12"	2'-3"	

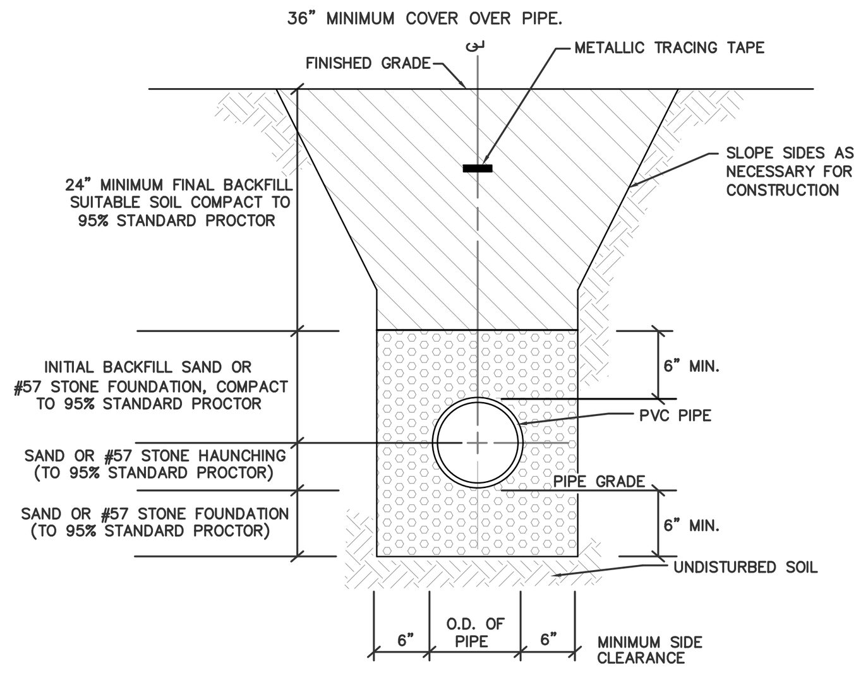
TYPICAL INLINE VALVE DETAIL

NTS

NOTES:

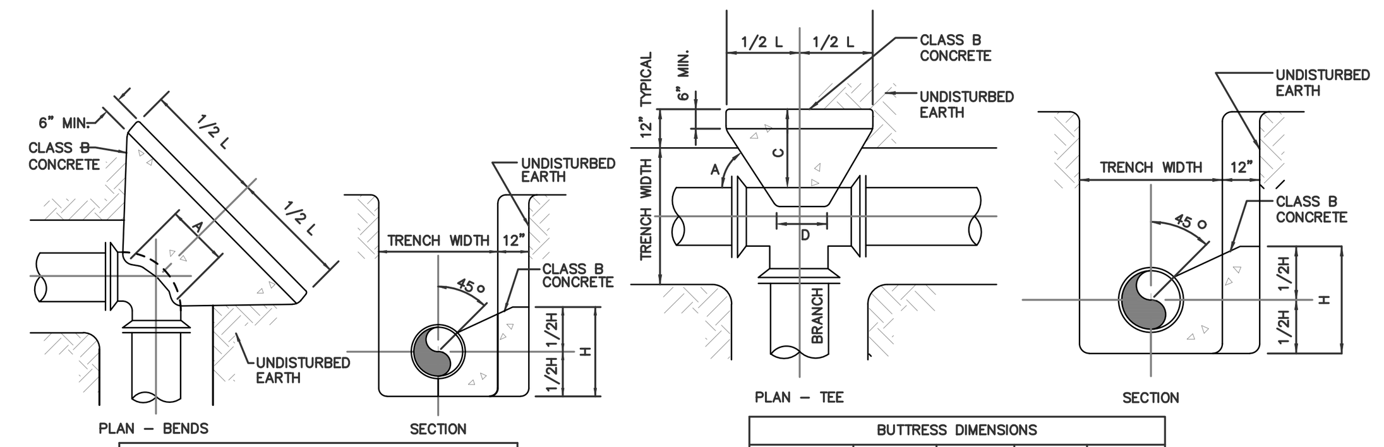
IN ADDITION TO METALIC TRACING TAPE 12" BELOW GRADE ABOVE THE PIPE ALSO PLACE 12 GUAGE 600 VOLT COPPER TRACER WIRE NO MORE THAN 3 FEET ABOVE

36" MINIMUM COVER OVER PIPE.



WATERLINE TRENCH DETAIL FOR UNPAVED AREAS

NTS



BUTTRESS DIMENSIONS						
PIPE SIZE	22 1/2 BENDS		45 BENDS		90 BENDS	
	L	H	L	H	L	H
6"	1'-0"	1'-0"	1'-0"	1'-0"	1'-4"	1'-2"
8"	1'-0"	1'-0"	1'-4"	1'-2"	1'-10"	1'-6"
12"	1'-4"	1'-4"	1'-10"	1'-10"	2'-8"	2'-3"

NOTES:
1. DIMENSION "A" SHOULD BE AS LARGE AS POSSIBLE WITHOUT INTERFERRING WITH THE MECH. JOINT BOLTS.
2. THE SHAPE OF THE BACK OF THE BUTTRESS MAY VARY AS LONG AS THE CONCRETE IS AGAINST FIRM, UNDISTURBED EARTH.
3. BUTTRESS DIMENSIONS ARE BASED UPON A SOIL RESISTANCE OF TWO TONS PER SQ. FT. AND A WATER PRESSURE OF 150 P.S.I.

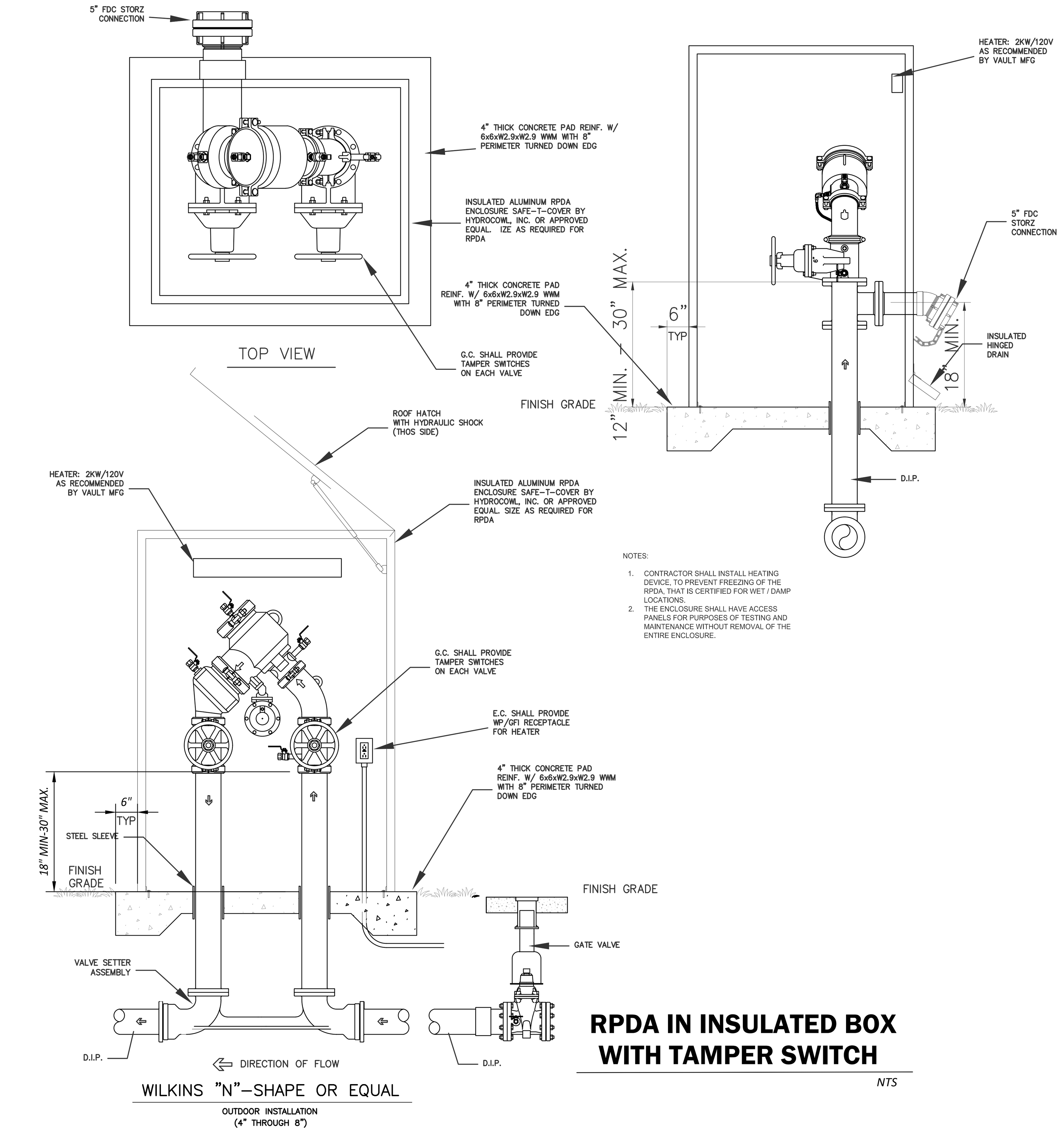
BUTTRESS DIMENSIONS				
B. D.	L	H	C	D
6"	1'-3"	1'-0"	SEE NOTE NO. 1	SEE NOTE NO. 2
8"	1'-6"	1'-4"		
12"	2'-3"	2'-0"		

B. D. = BRANCH DIAMETER

NOTES:
1. DIMENSION "C" SHOULD BE LARGE ENOUGH TO MAKE ANGLE "A" EQUAL TO OR GREATER THAN 45°.
2. DIMENSION "D" SHOULD BE AS LARGE AS POSSIBLE WITHOUT INTERFERRING WITH THE MECHANICAL JOINTS.
3. BUTTRESS DIMENSIONS ARE BASED UPON A SOIL RESISTANCE OF TWO TONS PER SQ. FT. AND A WATER PRESSURE OF 150 P.S.I.

THRUST BLOCKING DETAIL

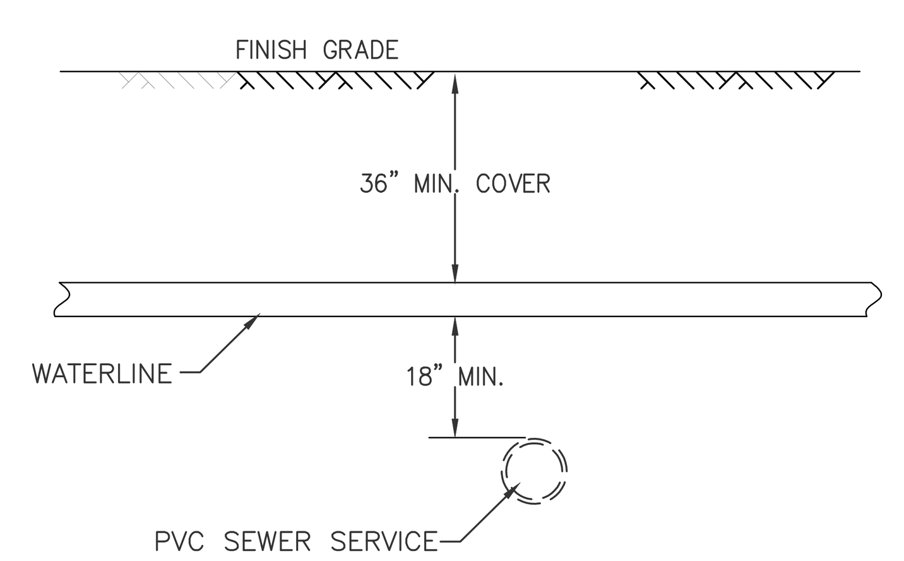
NTS



NOTES:
1. CONTRACTOR SHALL INSTALL HEATING DEVICE, TO PREVENT FREEZING OF THE RPDA, THAT IS CERTIFIED FOR WET / DAMP LOCATIONS.
2. THE ENCLOSURE SHALL HAVE ACCESS PANELS FOR PURPOSES OF TESTING AND MAINTENANCE WITHOUT REMOVAL OF THE ENTIRE ENCLOSURE.

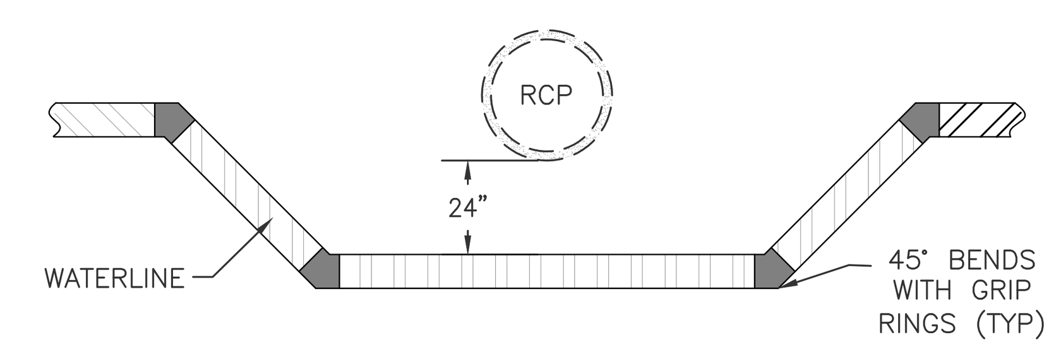
RPDA IN INSULATED BOX WITH TAMPER SWITCH

NTS



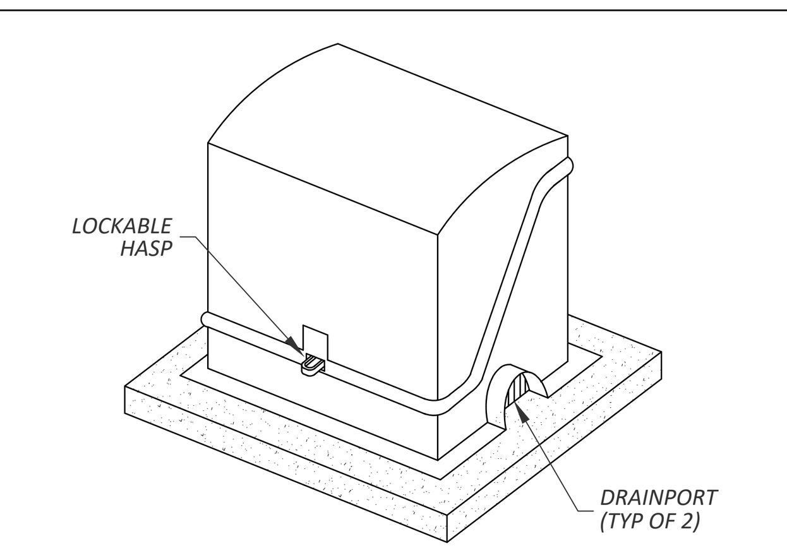
WATER MAIN/SEWER SERVICE CROSSING DETAIL

NTS

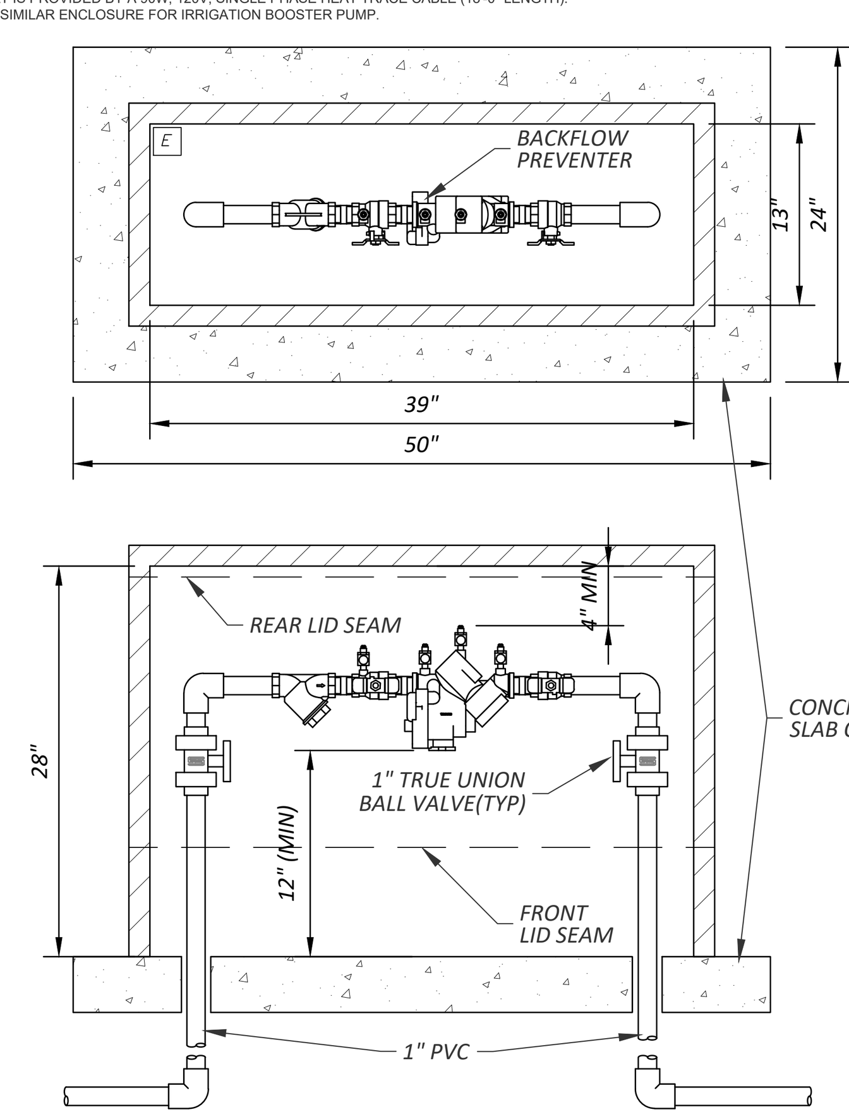


WATERLINE CROSSING DETAIL

NTS



NOTES :
1) ALL DIMENSIONS ARE APPROXIMATED IN INCHES.
2) RECOMMENDED SLAB SIZE SHALL BE 50"L x 24"W x 4" MINIMUM THICKNESS.
3) "E" INDICATES THE ELECTRICAL RECEPTACLE. IT SHALL BE MOUNTED A MINIMUM OF 18" ABOVE THE SLAB.
4) HEAT IS PROVIDED BY A 90W, 120V, SINGLE PHASE HEAT TRACE CABLE (18'-0" LENGTH).
5) USE SIMILAR ENCLOSURE FOR IRRIGATION BOOSTER PUMP.



RPZ & ENCLOSURE

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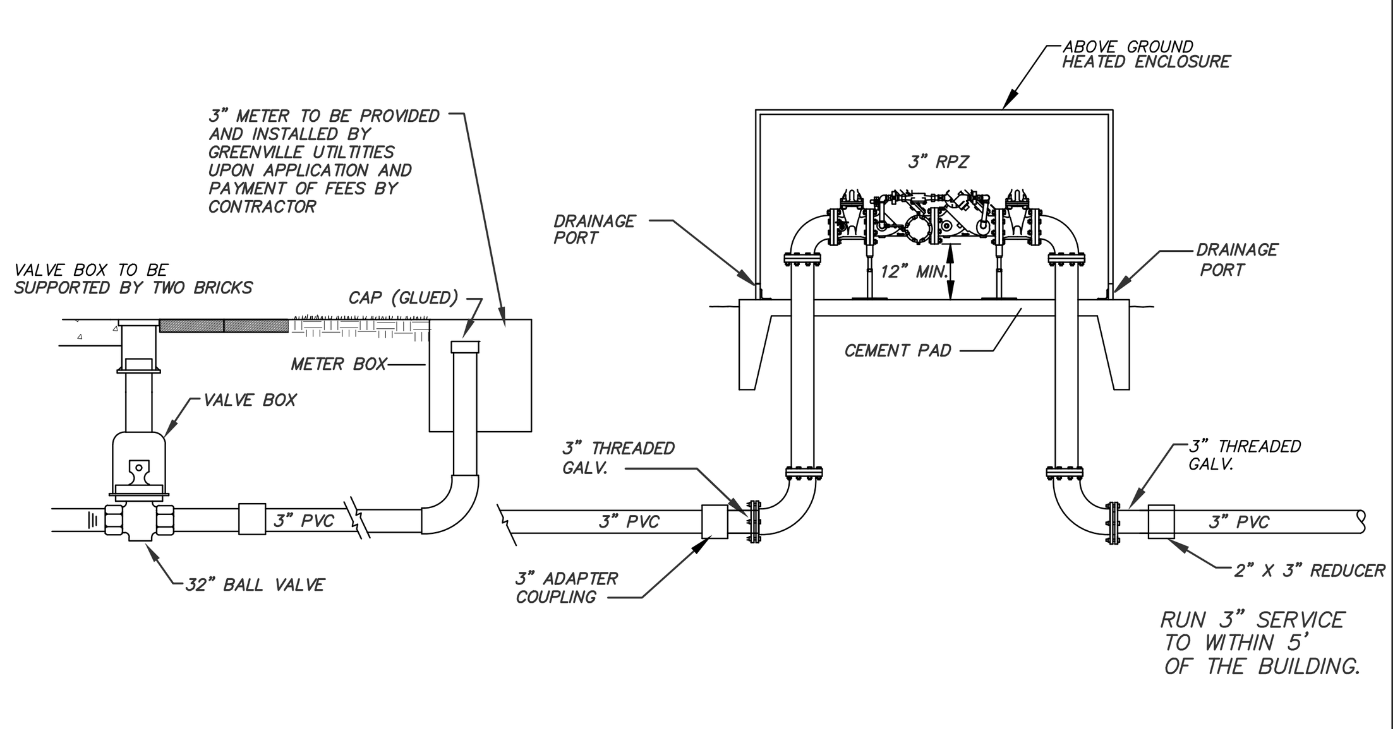

3" RPZ ON 3" DOMESTIC SERVICE

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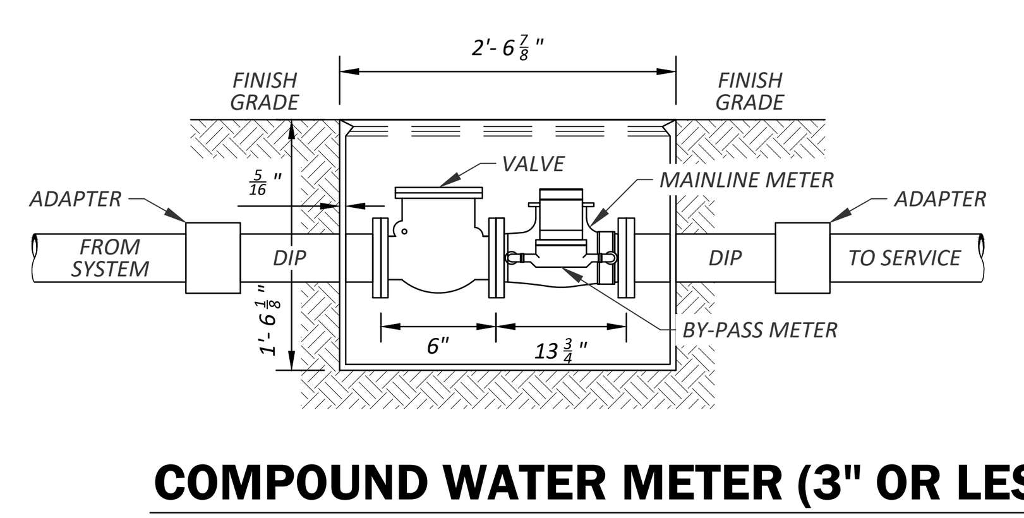

COMPOUND WATER METER (3" OR LESS)

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RAI Project #2023011

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EDA INVESTMENT NO. 04-01-07418
SCO# 19-20081-01A; NCCCS #2436

GENERAL NOTES

NO	REVISION	DATE

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 12324 ENGINEER J. STEPHEN JANOWSKI

[illegible]

J K F ARCHITECTURE

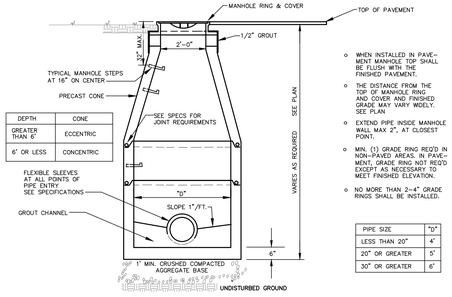
625 LYNNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

STAR COMMUNICATIONS NEW HEADQUARTERS
CITY OF CLINTON- SAMPSON COUNT- NC

DRAWING TITLE
WATER DETAILS

SCALE: AS SHOWN
DRAWN: MS
CHECKED: JSJ
DATE: 07-15-2023
PROJECT NO.: 202311
DRAWING NO: C 5.3

R:\LANDDEV\JKF-STAR_COMM_CLINTON-2023011\CADD_DWG\SHEETS\C5.3 WATER DETAILS.DWG - C 5.3 WATER DETAILS - 6/27/2023 9:46:03 AM - SAM FLOYD



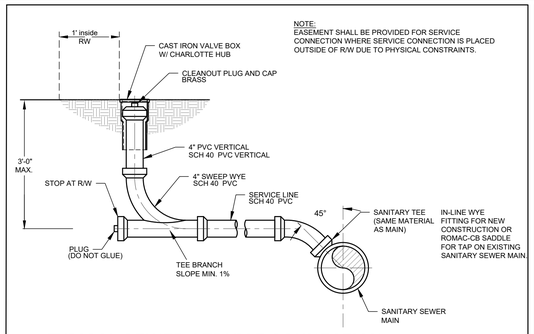
DEPTH	CONE
GREATER THAN 6'	ECCENTRIC
6' OR LESS	CONCENTRIC

- WHEN INSTALLED IN PAVEMENT MANHOLE TOP SHALL BE FLUSH WITH THE FINISHED PAVEMENT.
- THE DISTANCE FROM THE TOP OF MANHOLE RING AND COVER AND FINISHED GRADE MAY VARY WIDELY. SEE PLAN
- EXTEND PIPE INSIDE MANHOLE WALL MAX 2", AT CLOSEST POINT.
- MIN. (1) GRADE RING REQ'D IN NON-PAVED AREAS. IN PAVEMENT, GRADE RING NOT REQ'D EXCEPT AS NECESSARY TO MEET FINISHED ELEVATION.
- NO MORE THAN 2-4" GRADE RINGS SHALL BE INSTALLED.

PIPE SIZE	"D"
LESS THAN 20"	4"
20" OR GREATER	5"
30" OR GREATER	6"

TYPICAL PRECAST MANHOLE FOR MANHOLES 12' OR LESS IN DEPTH

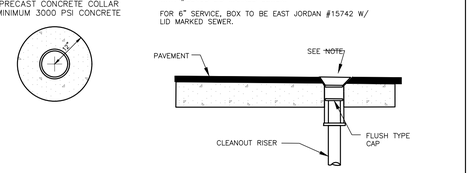
NTS



NOTE:
EASEMENT SHALL BE PROVIDED FOR SERVICE CONNECTION WHERE SERVICE CONNECTION IS PLACED OUTSIDE OF R/W DUE TO PHYSICAL CONSTRAINTS.

TYPICAL SEWER SERVICE CONNECTION

NTS



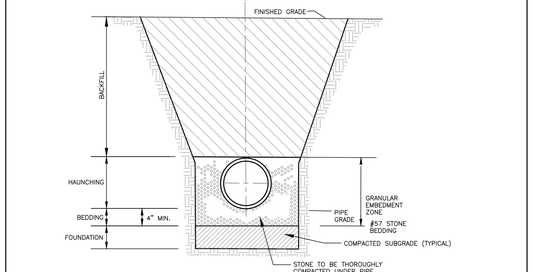
NOTE

FOR 4" SERVICE, BOX TO BE VULCAN MODEL #G8471 WITH #G8460 LID MARKED SEWER.

FOR 6" SERVICE, BOX TO BE EAST JORDAN #15742 W/ LID MARKED SEWER.

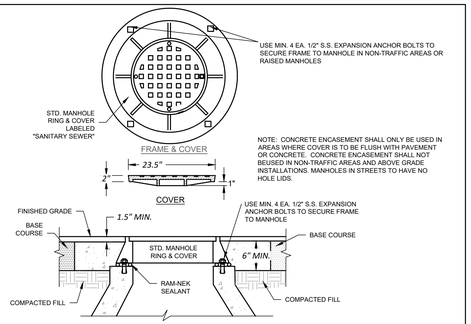
SEWER CLEANOUT FOR PAVED AREAS DETAIL

NTS



TRENCH SECTION FOR PVC SANITARY SEWER SERVICE (SCHEDULE 40)

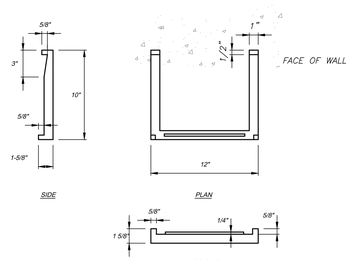
NTS



NOTE: CONCRETE ENCASEMENT SHALL ONLY BE USED IN AREAS WHERE COVER IS TO BE FLUSH WITH PAVEMENT OR CONCRETE. CONCRETE ENCASEMENT SHALL NOT BEUSED IN NON-TRAFFIC AREAS AND ABOVE GRADE INSTALLATIONS. MANHOLES IN STREETS TO HAVE NO HOLE LIDS.

STANDARD MANHOLE FRAME AND COVER

NTS



MANHOLE STEPS

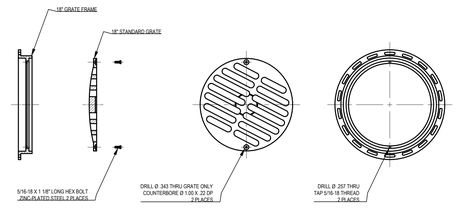
NTS

LAYING CONDITIONS	DESCRIPTION	PROJECT USE
TYPE 3	PIPE BEDDED IN 4" MINIMUM JOB EXCAVATED MATERIAL, BACKFILL LIGHTLY CONSOLIDATED TO TOP OF PIPE.	ALL DUCTILE IRON GRAVITY SEWER LINE.
TYPE 4	PIPE BEDDED IN SAND, GRANULAR MATERIAL OR GRADED GRAVEL TO THE DEPTH OF 1/8 PIPE DIAMETER, 4" MIN. JOB EXCAVATED MATERIAL COMPACTED TO 4" ABOVE TOP OF PIPE. (APPROX. 95% STANDARD PROCTOR, AASHTO T-99)	ALL PVC WATER LINE AND PVC FORCE MAIN.
TYPE 5	PIPE BEDDED TO ITS CENTERLINE IN COMPACTED GRANULAR MATERIAL 4" MIN. UNDER PIPE, COMPACTED GRANULAR OR SAND MATERIAL TO 4"ABOVE TOP OF PIPE. (APPROX. 95% STANDARD PROCTOR, AASHTO T-99)	ALL PVC GRAVITY SEWER LINE.

TYPICAL LAYING CONDITIONS

NTS

1899CGSL



NOTE: LOCATION OF LOCKING DEVICE MAY VARY

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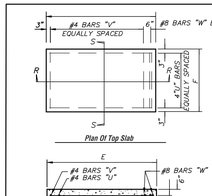
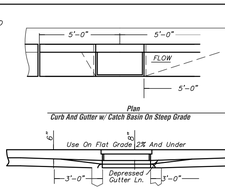
DRAWN BY: ABA | DATE: 6-30-00 | APPD BY: EBC | DATE: 2-20-15 | MATERIAL: | PROJECT NO./NAME:

TITLE: 18 IN STANDARD LOCKING GRATE ASSEMBLY - TYPE C

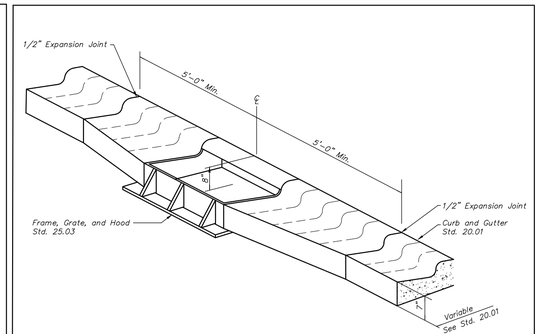
DWG SIZE: A | SCALE: 1:10 | SHEET: 1 OF 1 | DWG NO.: 7901-110-228 | REV: C





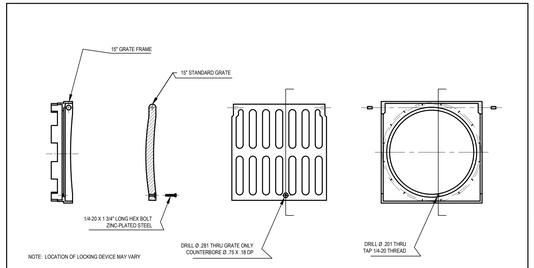
STANDARD BRICK CATCH BASIN 15" THRU 54" PIPE

NTS



STANDARD CATCH BASIN FRAME IN CURB AND GUTTER

NTS



NOTE: LOCATION OF LOCKING DEVICE MAY VARY

15 IN STANDARD LOCKING GRATE ASSEMBLY

NTS

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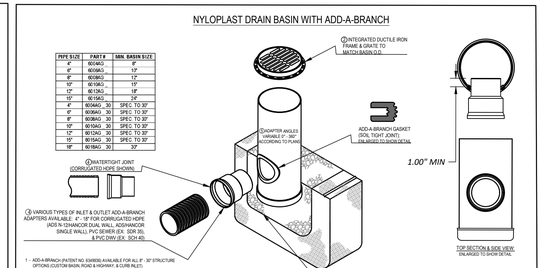
TITLE:

DWG NO.: 7901-110-032 | REV: C

NYLOPLAST DRAIN BASIN WITH ADD-A-BRANCH

PIPE SIZE	PART #	MIN. BASIN SIZE
4"	6004AG	8"
6"	6006AG	10"
8"	6008AG	12"
10"	6010AG	15"
12"	6012AG	18"
15"	6015AG	24"
4"	8004AG	30" SPEC TO 30"
6"	8006AG	30" SPEC TO 30"
8"	8008AG	30" SPEC TO 30"
10"	8010AG	30" SPEC TO 39"
12"	8012AG	30" SPEC TO 39"
15"	8015AG	30" SPEC TO 39"
18"	8018AG	30"



1 - ADD-A-BRANCH (PATENT NO. 8349500) AVAILABLE FOR ALL 8" - 30" STRUCTURE OPTIONS (CUSTOM BASIN, ROAD & HIGHWAY, & CURB INLET).
② FRAMES, GRATES, COVERS, HOODS, & BASE PLATES SHALL BE DUCTILE IRON PER ASTM A536 (GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATES).
3 - ADD-A-BRANCH GASKETS ARE MOUNTED ON ANY ANGLE (0° TO 30°). RISERS ARE NEEDED FOR BASINS OVER 54" DUE TO SHIPPING RESTRICTIONS SEE DRAWING NO. 7201-110-065
④ DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM3212 FOR CORRUGATED HDPE (ADS N-12)NAHCOR DUAL WALL) & ASTM D3034 (PVC).
⑤ ADD-A-BRANCH ADAPTERS CAN BE MOUNTED ON ANY ANGLE (0° TO 360° TO DETERMINE MINIMUM ANGLE BETWEEN ADD-A-BRANCH ADAPTERS SEE DRAWING NO. 0110-110-005

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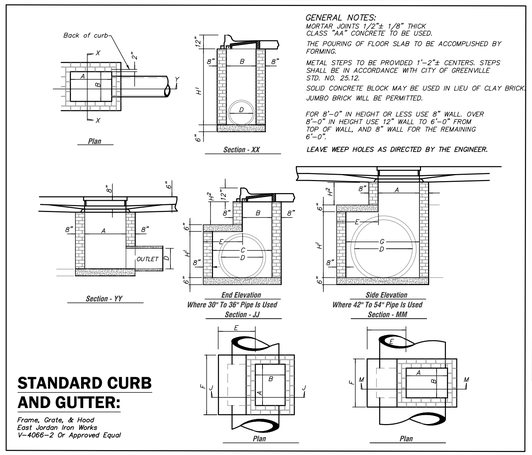
TITLE:

DWG NO.: 0110-110-009 | REV: E

DRAIN BASIN WITH ADD-A-BRANCH QUICK SPEC INSTALLATION DETAIL

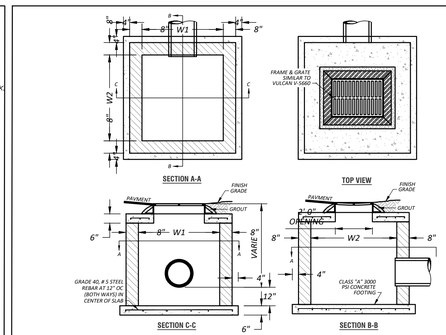
NTS



GENERAL NOTES:
MORTAR JOINTS 1/2"± 1/8" THICK
CLASS "AA" CONCRETE TO BE USED.
THE POURING OF FLOOR SLAB TO BE ACCOMPLISHED BY FORMING.
METAL STEPS TO BE PROVIDED 1'-2"± CENTERS. STEPS SHALL BE IN ACCORDANCE WITH CITY OF GREENVILLE STD. NO. 25.12.
SOLID CONCRETE BLOCK MAY BE USED IN LIEU OF CLAY BRICK. JUMBO BRICK WILL BE PERMITTED.
FOR 8'-0" IN HEIGHT OR LESS USE 8" WALL. OVER 8'-0" IN HEIGHT USE 12" WALL TO 6'-0" FROM TOP OF WALL, AND 8" WALL FOR THE REMAINING 6'-0".
LEAVE WEEP HOLES AS DIRECTED BY THE ENGINEER.

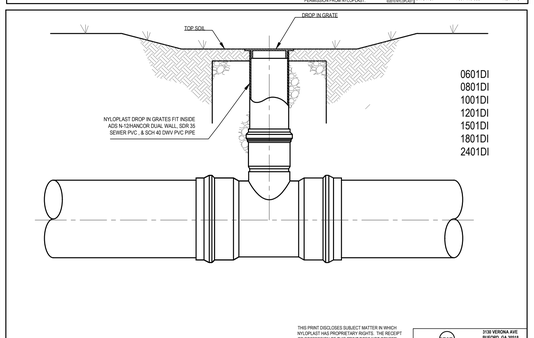
STANDARD CURB AND GUTTER:

Frame, Grate, & Hood
East Jordan Iron Works
V-4066-2 Or Approved Equal



STANDARD DROP INLET

NTS



6 IN - 24 IN DROP IN GRATE INSTALLATION

NTS

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TITLE: 6 IN - 24 IN DROP IN GRATE INSTALLATION

DWG NO.: 7901-110-017 | REV: E

GENERAL NOTES

NO	REVISION	DATE

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 12324 ENGINEER STEPHEN JANOSKY

JKF ARCHITECTURE

625 LYNNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

STAR COMMUNICATIONS
NEW HEADQUARTERS
CITY OF CLINTON- SAMPSON COUNT- NC

DRAWING TITLE

SEWER AND STORM DETAILS

SCALE	AS SHOWN
DRAWN	MS
CHECKED	JSJ
DATE	07-15-2023
PROJECT NO.	202311

DRAWING NO

C 5.4

RAI Project #2023011

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riversandassociates.com
NC License: F-0334

Six Forks Place III Ste. 230
353 E. Six Forks Road
Raleigh, NC 27609
919.594.1626

Engineers
Planners
Surveyors
Landscape Architects

EDA INVESTMENT NO. 04-01-07418
SCO# 19-20081-01A; NCCCS #2436

R:\LANDEX\JKF-STAR_COMM_CLINTON_2023011\CADD_DWGS\SHEETS\C5.4 SEWER DETAILS.DWG - C 5.4 SEWER AND STORM DETAILS - 6/27/2023 9:45:57 AM - SAM.FLOYD

Table 6.10a Temporary Seeding Recommendations for Late Winter and Early Spring

Seeding mixture

Species	Rate (lb/acre)
Rye (grain)	120
Annual lespedeza (Kobe in Piedmont and Coastal Plain, Korean in Mountains)	50

Omit annual lespedeza when duration of temporary cover is not to extend beyond June.

Seeding dates
Mountains—Above 2500 feet: Feb. 15 - May 15
Below 2500 feet: Feb. 1- May 1
Piedmont—Jan. 1 - May 1
Coastal Plain—Dec. 1 - Apr. 15

Soil amendments
Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

Mulch
Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

Maintenance
Refertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other damage.

Table 6.10b Temporary Seeding Recommendations for Summer

Seeding mixture

Species	Rate (lb/acre)
German millet	40

In the Piedmont and Mountains, a small-stemmed Sudangrass may be substituted at a rate of 50 lb/acre.

Seeding dates
Mountains—May 15 - Aug. 15
Piedmont—May 1 - Aug. 15
Coastal Plain—Apr. 15 - Aug. 15

Soil amendments
Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural limestone and 750 lb/acre 10-10-10 fertilizer.

Mulch
Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

Maintenance
Refertilize if growth is not fully adequate. Reseed, refertilize and mulch immediately following erosion or other damage.

Table 6.10c Temporary Seeding Recommendations for Fall

Seeding mixture

Species	Rate (lb/acre)
Rye (grain)	120

Seeding dates
Mountains—Aug. 15 - Dec. 15
Coastal Plain and Piedmont—Aug. 15 - Dec. 30

Soil amendments
Follow soil tests or apply 2,000 lb/acre ground agricultural limestone and 1,000 lb/acre 10-10-10 fertilizer.

Mulch
Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.

Maintenance
Repair and refertilize damaged areas immediately. Topdress with 50 lb/acre of nitrogen in March. If it is necessary to extent temporary cover beyond June 15, overseed with 50 lb/acre Kobe (Piedmont and Coastal Plain) or Korean (Mountains) lespedeza in late February or early March.

Temporary Skimmer Basin No. 1
Phase 1 AND 2
STAR COMMUNICATIONS NEW HEADQUARTERS
CLINTON, NC

Discharge Calculation	
4.40	Disturbed Area (Acres)
0.75	Rational C
11	Time of Concentration (min)
5.58	Intensity (in/hr) Atlas 14
18.41	Peak Flow from 10-year Storm (cfs)

SKIMMER	
4	Skimmer Size (inches)
0.333	Head on Skimmer (ft)
2	Orifice Size (1/4 inch increments)
1.79	Dewatering Time (days)
	Suggest about 3 days

Dimension Calculation		
7,920	Required Volume (ft^3) = 1800 x DA	
5,985	Required Surface Area (ft^2) = 325 * Q(cfs)	
54.7	Suggested Width (ft)	
109.4	Suggested Length (ft)	
55	Trial Top Width at Spillway Invert (ft)	
110	Trial Top Length at Spillway Invert (ft)	
3	Trial Side Slope Ratio Z:1	
2.75	Trial Depth (ft)	
12	Bottom Width (ft)	
93.5	Bottom Length (ft)	
1,122	Bottom Area (ft^2)	
9,536	Actual Volume (ft^3)	Okay
6,050	Actual Surface Area (ft^2)	Okay

Skimmer Size
(inches)
1
2
2.5
3

Spillway Calculation		
18	Trial Weir Length (ft)	
0.5	Trial Depth of Flow (ft)	
19.1	Spillway Capacity (cfs)	Okay
0.49	Actual Depth (ft)	
2.10	Velocity (cfs)	
145.50	Spillway Top Elev (ft)	
145.99	10-yr WSEL (ft)	
147.00	Basin Top	
1.00	Freeboard	Okay

SWALE CALCULATIONS for Temporary Swale 1
STAR COMMUNICATIONS NEW HEADQUARTERS
SUNSET AVE. CLINTON , NC

Swale 1 in temporary condition
Outlet Based on 10 year storm

Total watershed area (Ac)	3.2			
Land Type		Rational C	CN	Acres
Area Impervious		0.95	98	0.000
denuded with temporary seeding		0.33	73	2.360
Total watershed area				2.360
Composite		0.33		

	Overland	Channelized
Hydraulic Length (ft)	1,067	1,070
Vertical Relief (ft)	9.00	9.50

Time of Concentration $T_c = \left(\frac{L^3}{H}\right)^{0.385} / 128$ + Travel Factor

	Overland	Channelized	Total	
Time (min)	21.08	2.07	23.16	If Tc<10, use 10 min
Travel Factor	2	0.2		

Rainfall Intensity =	I = g/(h+T)	4.9	inches per hr	g 225
Peak Discharge =	Q=CIA	3.8	cfs	h 22.5

Right Side Slope	Left Side Slope	n=	Slope	Channel Velocity	Flow Depth
2.00	2.00	0.022	0.89%	3.94 fps	0.70 ft

Tractive Force				
Td= YDS (lb/sf)	0.387	use temporary liner Curled wood mat	Td=	1.55 lb/sf ok

SWALE CALCULATIONS for Temporary Swale 2A
STAR COMMUNICATIONS NEW HEADQUARTERS
SUNSET AVE. CLINTON , NC

Swale 2 in temporary condition
Outlet Based on 10 year storm

Total watershed area (Ac)	1.47			
Land Type		Rational C	CN	Acres
Area Impervious		0.95	98	0.000
denuded with temporary seeding		0.35	73	1.470
Total watershed area				1.470
Composite		0.35		

	Overland	Channelized
Hydraulic Length (ft)	561	561
Vertical Relief (ft)	9.00	9.00

Time of Concentration $T_c = \left(\frac{L^3}{H}\right)^{0.385} / 128$ + Travel Factor

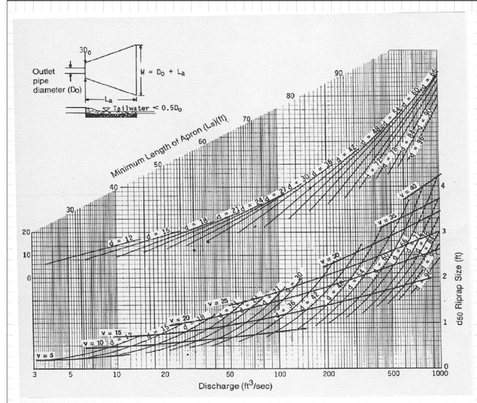
	Overland	Channelized	Total	
Time (min)	10.03	1.00	11.04	If Tc<10, use 10 min
Travel Factor	2	0.2		

Rainfall Intensity =	I = g/(h+T)	6.7	inches per hr	g 225
Peak Discharge =	Q=CIA	3.5	cfs	h 22.5

Right Side Slope	Left Side Slope	n=	Slope	Channel Velocity	Flow Depth
2.00	2.00	0.022	1.60%	2.47 fps	0.84 ft

Tractive Force				
Td= YDS (lb/sf)	0.836	use temporary liner jute netting =	Td=	0.45 lb/sf ok

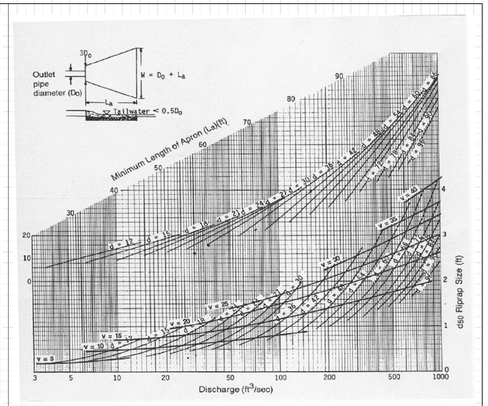
JOB STAR COMMUNICATIONS NEW HEADQUARTERS
SHEET NO. 1 OF 2
CALCULATED BY MS DATE 5/12/2023
CHECKED BY JSJ DATE 5/12/2023
SCALE



Given Information		Calculated Information		
Q_{10} = 7.60 cfs		Width at entrance = $3D_o$ = 4.5 ft	use 5.0 ft	
D_o = 18 "		Width at exit (D_o + 0.4xL_a) = 4.7 ft	use 5.0 ft	
Class 'B' stone unit weight = 110 pcf		Length of Apron (from chart) L = 8 ft		
Is flow below minimum for Pipe Diameter:	YES	Thickness = 22 " thick Class 'B' stone		
If flow is higher, then chart consultation is needed		Tonnage = 4.033333 tons	use 5 tons	

Apron at FES #100
Use 5 ft x 5 ft x 8 ft,5 tons.

JOB STAR COMMUNICATIONS NEW HEADQUARTERS
SHEET NO. 2 OF 2
CALCULATED BY MS DATE 5/12/2023
CHECKED BY JSJ DATE 5/12/2023
SCALE



Given Information		Calculated Information		
Q_{10} = 7.40 cfs		Width at entrance = $3D_o$ = 4.5 ft	use 5.0 ft	
D_o = 18 "		Width at exit (D_o + 0.4xL_a) = 4.7 ft	use 5.0 ft	
Class 'B' stone unit weight = 110 pcf		Length of Apron (from chart) L = 8 ft		
Is flow below minimum for Pipe Diameter:	YES	Thickness = 22 " thick Class 'B' stone		
If flow is higher, then chart consultation is needed		Tonnage = 4.033333 tons	use 5 tons	

Apron at FES #200
Use 5 ft x 5 ft x 8 ft,5 tons.

EROSION CONTROL NOTES AND CACULATIONS:

LEGEND:

- DEMO ITEM
- SF — SILT FENCE
- LOD LOD LOD — LIMITS OF DISTURBANCE
- CLEARING LIMITS
- SILT FENCE OUTLET (SFO)
- TEMPORARY STANDARD HARDWARE CLOTH AND GRAVEL INLET PROTECTION
- ROCK DAM
- OUTLET STRUCTURE
- SKIMMER

GENERAL NOTES

NO	REVISION	DATE

SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 23241 STEPHEN JANOUSEK
STEPHEN JANOUSEK PE

JKF ARCHITECTURE

625 LYNNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

RAI Project #2023011

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NC License: F-0334
riversandassociates.com
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353 E. Six Forks Road
Raleigh, NC 27609
919.594.1626
Engineers
Planners
Surveyors
Landscape Architects

EDA INVESTMENT NO. 04-01-07418
SCO# 19-20081-01A; NCCCS #2436

STAR COMMUNICATIONS
NEW HEADQUARTERS
CITY OF CLINTON- SAMPSON COUNT- NC

DRAWING TITLE
EROSION CONTROL NOTES AND CACULATIONS

SCALE	AS SHOWN
DRAWN	MS
CHECKED	JSJ
DATE	07-15-2023
PROJECT NO.	202311
DRAWING NO	C 6.1

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

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

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes		
Site Area Description	**Stabilize within this many calendar days after ceasing land disturbance**	**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
(d) Slopes 3:1 to 4:1	14	-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 -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

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

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

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

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

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

EQUIPMENT AND VEHICLE MAINTENANCE

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

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8. Dispose waste off-site at an approved disposal facility.
9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

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

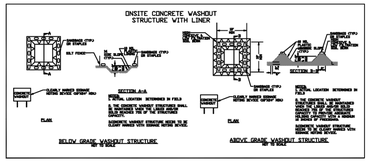
PORTABLE TOILETS

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

EARTHEN STOCKPILE MANAGEMENT

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

NORTH CAROLINA Environmental Quality



CONCRETE WASHOUTS

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

HERBICIDES, PESTICIDES AND RODENTICIDES

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

HAZARDOUS AND TOXIC WASTE

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

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 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 un-attended days (anc this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. 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 control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the streams 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)(a) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (Installation of perimeter E&SC measures, clearing 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

1. E&SC Plan Documentation

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

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

2. Additional Documentation to be Kept on Site

In addition to the E&SC 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:

(a) This General Permit as well as the Certificate of Coverage, after it is received.

(b) 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 122.41]

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

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

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

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

(d) Anticipated bypasses and unanticipated bypasses.

(e) 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.

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

PART II, SECTION G, ITEM (4)
DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

(a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,
(b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,
(c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
(d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
(e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
(f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

NORTH CAROLINA Environmental Quality

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

EFFECTIVE: 04/01/19

TEMPORARY SEEDING SCHEDULE

(TO TEMPORARILY STABILIZE DENUDED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE FOR A PERIOD OF 15 WORKING DAYS)

SEEDING DATES: DECEMBER 1 THRU APRIL 15

SEEDING MIXTURE: SPECIES	RATE (LBS/AC)
RYE (GRAIN)	120
ANNUAL LESPEDEZA (KOBE)	50

OMIT ANNUAL LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXTEND BEYOND JUNE

SOIL AMENDMENTS:
FOLLOW SOIL TESTS OR APPLY:
2,000 LBS/AC LIMESTONE AND
750 LB/AC 10–10–10 FERTILIZER

MULCH: 4,000 LBS/AC – ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE: REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

SEEDING DATES: APRIL 15 – AUGUST 15

SEEDING MIXTURE: SPECIES	RATE (LBS/AC)
GERMAN MILLET	40

SOIL AMENDMENTS:
FOLLOW SOIL TESTS OR APPLY:
2,000 LBS/AC LIMESTONE AND
750 LB/AC 10–10–10 FERTILIZER

MULCH: 4,000 LBS/AC – ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OF A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE: REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

SEEDING DATES: AUGUST 15 THRU DECEMBER 15

SEEDING MIXTURE: SPECIES	RATE (LBS/AC)
RYE (GRAIN)	120

SOIL AMENDMENTS:
FOLLOW SOIL TESTS OR APPLY:
2,000 LBS/AC LIMESTONE AND
1000 LB/AC 10–10–10 FERTILIZER

MULCH: 4,000 LBS/AC – ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OF A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE: REPAIR AND REFERTILIZE DAMAGED AREAS IMMEDIATELY. TOPDRESS WITH 50 LBS/AC OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LBS/AC KOBE IN LATE FEBRUARY OR EARLY MARCH

TEMPORARY SEEDBED PREPARATION

1. A GOOD SEEDBED IS WELL PULVERIZED, LOOSE, AND UNIFORM.
2. LIMING – APPLY LIME ACCORDING TO SOIL TEST RECOMMENDATIONS. IF THE pH (ACIDITY) OF THE SOIL IS NOT KNOWN, AN APPLICATION OF GROUND AGRICULTURAL LIMESTONE AT THE RATE OF 1 – 1.5 TONS/ACRE ON FINE TEXTURED SOILS AND 2–3 TONS/ACRE ON COARSE TEXTURED SOILS IS USUALLY SUFFICIENT. APPLY LIMESTONE UNIFORMLY AND INCORPORATE INTO THE TOP 4–6 INCHES OF THE SOIL. SOILS WITH A pH OF 6 OR HIGHER NEED NOT BE LIMED.
3. FERTILIZER – BASE APPLICATION RATES ON SOIL TESTS. WHEN THESE ARE NOT POSSIBLE APPLY A 10–10–10 GRADE FERTILIZER AT 700 – 1000 LB/ACRE. BOTH FERTILIZER AND LIME SHOULD BE INCORPORATED INTO THE TOP 4–6 INCHES OF SOIL. IF A HYDRAULIC SEEDER IS USED, DO NOT MIX SEED AND FERTILIZER MORE THAN 30 MINUTES BEFORE APPLICATION.
4. SURFACE ROUGHENING – IF RECENT TILLAGE OPERATIONS HAVE RESULTED IN A LOOSE SURFACE, ADDITIONAL ROUGHENING MAY NOT BE REQUIRED, EXCEPT TO BREAK UP LARGE CLODS. IF RAINFALL CAUSES THE SURFACE TO BECOME SEALED OR CRUSTED, LOOSEN IT JUST PRIOR TO SEEDING BY DISKING, RAKING, HARROWING, OR OTHER SUITABLE METHODS. GROOVE OR FURROW SLOPES STEEPER THAN 3:1 ON THE CONTOUR BEFORE SEEDING. SEE OTHER REQUIREMENTS FOR SURFACE ROUGHENING ON THIS SHEET.

CONSTRUCTION SCHEDULE

1. OBTAIN PLAN APPROVALS AND ALL APPROVALS AND ALL APPLICABLE PERMITS.
2. FLAG LIMITS OF ROUGH GRADING.
3. HOLD PRE–CONSTRUCTION MEETING WITH CONTRACTOR, EROSION CONTROL ADMINISTRATOR (252–946–6481), PROJECT ENGINEER, AND OWNER BEFORE WORK BEGINS.
4. INSTALL THE PERIMETER SEDIMENT FENCES AS THE FIRST CONSTRUCTION ACTIVITY.
5. INSTALL DRIVEWAY PIPE AND TEMPORARY GRAVEL CONSTRUCTION ENTRANCE.
6. INSTALL CONCRETE WASHOUT AREA WITH SIGN.
7. INSTALL TEMPORARY SEDIMENT BASIN AND TEMPORARY DIVERSION SWALE PER PLAN.
8. PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES 14 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING FOR SLOPES 3:1 OR FLATTER INCLUDING ALL OTHER SLOPES 4:1 OR FLATTER. PROVIDE A GROUND COVER (TEMPORARY OR PERMANENT) ON EXPOSED SLOPES WITHIN 7 CALENDAR DAYS FOLLOWING COMPLETION OF ANY PHASE OF GRADING FOR SLOPES 3:1 OR STEEPER.
9. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES MAY BE REQUIRED BY THE STATE OR THE OWNER IF DEEMED NECESSARY.
10. AFTER SITE IS STABILIZED, REMOVE ALL TEMPORARY MEASURES, FINE GRADE DISTURBED AREAS, AND INSTALL PERMANENT VEGETATION ON THE DISTURBED AREAS.
11. MAINTAIN PERMANENT VEGETATION BY TOP DRESSING WITH 700 LBS PER ACRE OF FERTILIZER EVERY 6 MONTHS UNTIL COMPLETION OF THE PROJECT.
12. WITHIN 6" OF FINAL GRADE, RE–DISTRIBUTE 6" OF TOP SOIL.
13. FINE GRADE, PERMANENTLY SEED AND MULCH ALL–LANDSCAPED AREAS.
14. REMOVE ALL REMAINING TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES UPON COMPLETION AND STABILIZATION OF PROJECT

PERMANENT SEEDING SCHEDULE

IN ROADWAY AREAS:

MARCH 1 – AUGUST 31:

SEED MIX:	RATE:
TALL FESCUE	50 LB/AC
CENTIPEDE	10 LB/AC
BERMUDAGRASS (HULLED)	25 LB/AC

SOIL AMENDMENTS:	RATE:
FERTILIZER (10–20–20)	500 LB/AC
LIMESTONE	4000 LB/AC

SEPTEMBER 1 – FEBRUARY 28:

SEED MIX:	RATE:
TALL FESCUE	50 LB/AC
CENTIPEDE	10 LB/AC
BERMUDAGRASS (UNHULLED)	35 LB/AC

SOIL AMENDMENTS:	RATE:
FERTILIZER (10–20–20)	500 LB/AC
LIMESTONE	4000 LB/AC

IN WASTE/BORROW AREAS:

MARCH 1 – AUGUST 31:

SEED MIX:	RATE:
TALL FESCUE	75 LB/AC
BERMUDAGRASS (HULLED)	25 LB/AC

SOIL AMENDMENTS:	RATE:
FERTILIZER (10–20–20)	500 LB/AC
LIMESTONE	4000 LB/AC

SEPTEMBER 1 – FEBRUARY 28:

SEED MIX:	RATE:
TALL FESCUE	75 LB/AC
BERMUDAGRASS (UNHULLED)	35 LB/AC

SOIL AMENDMENTS:	RATE:
FERTILIZER (10–20–20)	500 LB/AC
LIMESTONE	4000 LB/AC

MULCH:
APPLY 4,000 LB/ACRE GRAIN STRAW OR EQUIVALENT COVER OF ANOTHER SUITABLE MULCH. ANCHOR BY TACKING WITH ASPHALT, ROVING, NETTING, OR BY CRIMPING WITH A MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.

MAINTENANCE:
REFERTILIZE THE FOLLOWING APRIL WITH 50 LB/ACRE NITROGEN.
REPEAT AS GROWTH REQUIRES. MAY BE MOWED AS OFTEN AS NEEDED.

NOTE: SEE NCDOT'S LATEST STANDARDS FOR STABILIZATION FOR MORE INFORMATION.

PERMANENT SEEDBED PREPARATION

1. INSTALL NECESSARY MECHANICAL EROSION AND SEDIMENTATION CONTROL PRACTICES BEFORE SEEDING, AND COMPLETE GRADING ACCORDING TO THE APPROVED PLAN.
2. LIME AND FERTILIZER NEEDS SHOULD BE DETERMINED BY SOIL TESTS. SOIL TESTING IS PERFORMED FREE OF CHARGE BY THE NC DEPT. OF AGRICULTURE. SOIL TESTING LABORATORY. DIRECTIONS, SAMPLE CARTONS, AND INFORMATION ARE AVAILABLE THROUGH COUNTY AGRICULTURAL EXTENSION OFFICES OR FROM NCDA. BECAUSE THE NCDA SOIL TESTING LAB REQUIRES 1–6 WEEKS FOR SAMPLE TURN–AROUND, SAMPLING MUST BE PLANNED WELL IN ADVANCE OF FINAL GRADING. TESTING IS ALSO DONE BY COMMERCIAL LABORATORIES.
3. WHEN SOIL TESTS ARE NOT AVAILABLE, FOLLOW RATES SUGGESTED IN THE PERMANENT SEEDING SCHEDULE ON THIS SHEET. APPLICATION RATES USUALLY FALL INTO THE FOLLOWING RANGES:

   GROUND AGRICULTURAL LIMESTONE:
   LIGHT TEXTURED, SANDY SOILS: 1 – 1.5 TONS/ACRE
   HEAVY TEXTURED, CLAYEY SOILS: 2 – 3 TONS/ACRE

   FERTILIZER:
   GRASSES: 800 – 1200 LB/ACRE OF 10–10–10 (OR EQUIVALENT)
   GRASS–LEGUME MIXTURES: 800 – 1200 LB/ACRE OF 5–10–10 (OR EQUIVALENT)

4. APPLY LIME AND FERTILIZER EVENLY AND INCORPORATE INTO THE TOP 4–6 INCHES OF SOIL BY DISKING OR OTHER SUITABLE MEANS. OPERATE MACHINERY ON THE CONTOUR.
5. ROUGHEN SURFACES IN ACCORDANCE WITH THE NOTES ON SURFACE ROUGHENING ON THIS SHEET.
6. COMPLETE SEEDBED PREPARATION BY BREAKING UP LARGE CLODS AND RAKING INTO A SMOOTH, UNIFORM SURFACE (SLOPES LESS THAN 3:1.) FILL IN OR LEVEL DEPRESSIONS THAT CAN COLLECT WATER. BROADCAST SEED INTO A FRESHLY LOOSENED SEEDBED THAT HAS NOT BEEN SEALED BY RAINFALL.

NEW STABILIZATION TIMEFRAMES

SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES, SLOPES	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH
SLOPES STEEPER THAN 3:1	7 DAYS	NONE EXCEPT FOR PERIMETER AND HQW ZONES
SLOPES 3:1 OR FLATTER	14 DAYS	NONE
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE

GENERAL NOTES

NO	REVISION	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 12521 ENGINEER STEPHEN JANOSKO

JKF ARCHITECTURE

625 LYNNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

STAR COMMUNICATIONS
NEW HEADQUARTERS
CITY OF CLINTON- SAMPSON COUNT- NC

DRAWING TITLE
EROSION CONTROL NOTES-NCG01

SCALE	AS SHOWN
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CHECKED	JSJ
DATE	07-15-2023
PROJECT NO.	202311
DRAWING NO	C 6.2

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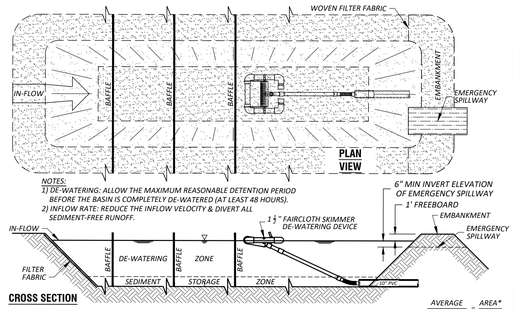
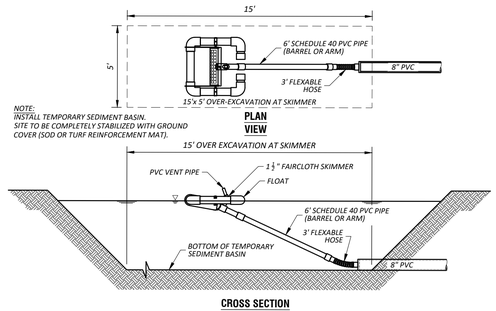
SCO# 19-20081-01A; NCCCS #2436

R:\LANDDEV\JKF-STAR_COMM_CLINTON-20230111\CADD_DWGS\SHEETS\CAD_DWGS\SHEETS\CAD 6 EROSION CONTROL NOTES-NCG01.DWG - C 6.2 EROSION CONTROL NOTES-NCG01 - 7/14/2023 11:55:31 AM - SAM FLOYD



1 SKIMMER BASIN DETAIL

N.T.S.
EC-24C



2 TEMPORARY SEDIMENT BASIN OUTLET

N.T.S.
EC-24

NOTES:

1. USE STANDARD STRENGTH FABRIC WITH 8' POST SPACING AND WIRE FENCING WHERE REINFORCED SILT FENCE IS REQUIRED.
2. WITH EXTRA STRENGTH FABRIC, USE 6' POST SPACING AND NO WIRE FENCING.
3. WIRE FENCING TO BE 32" WITH 6-LINE WIRES AND STAY WIRES ON 12" CENTERS/ BOTTOM AND TOP WIRES 10 GA., INTERMEDIATE WIRES 12.5 GA.

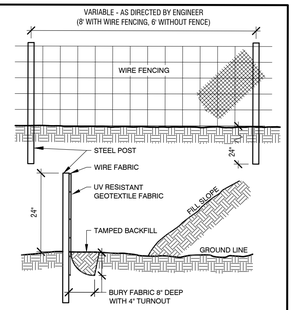
MAINTENANCE:

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.

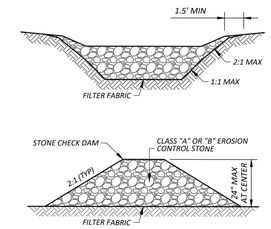
REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.

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.

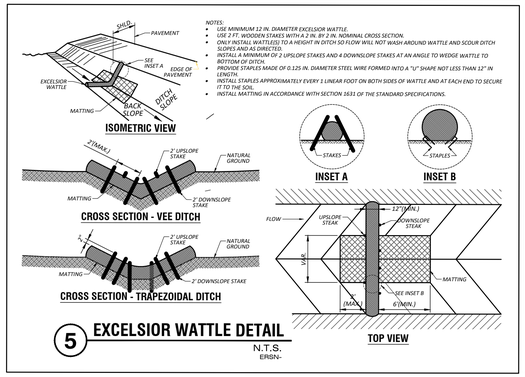


3 TEMPORARY SILT FENCE

N.T.S.
EC-1

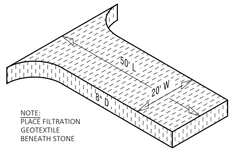


4 ROCK CHECK DAM



5 EXCELSIOR WATTLE DETAIL

N.T.S.
ERSN-



NOTES:

1. PROVIDE TURNING RADIUS SUFFICIENT TO ACCOMMODATE LARGE TRUCKS.
2. LOCATE ENTRANCES TO PROVIDE FOR UTILIZATION BY ALL CONSTRUCTION VEHICLES.
3. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS.
4. ANY MATERIAL TRACKED ONTO THE ROADWAY MUST BE CLEANED UP IMMEDIATELY.
5. LOCATE GRAVEL CONSTRUCTION ENTRANCE AT ALL POINTS OF INGRESS AND EGRESS UNTIL SITE IS STABILIZED. PROVIDE FREQUENT CHECKS OF THE DEVICE AND TIMELY MAINTENANCE.
6. NUMBER AND LOCATION OF CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE ENGINEER.
7. USE 2"-3" COARSE AGGREGATE APPROVED BY THE ENGINEER.
8. INSTALL CONSTRUCTION ENTRANCES IN A WAY TO PREVENT VEHICLES FROM BYPASSING CONSTRUCTION ENTRANCE LEAVING PROJECT SITE

CONSTRUCTION SPECIFICATIONS:

1. CLEAR THE ENTRANCE AND EXIT AREA OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL AND PROPERLY GRADE IT.
2. PLACE THE GRAVEL TO THE SPECIFIC GRADE AND DIMENSIONS SHOWN ON THE PLANS, AND SMOOTH IT.
3. PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP OR OTHER SUITABLE OUTLET.
4. USE GEOTEXTILE FABRICS BECAUSE THEY IMPROVE STABILITY OF THE FOUNDATION IN LOCATIONS SUBJECT TO SEEPAGE OR HIGH WATER TABLE.

MAINTENANCE:

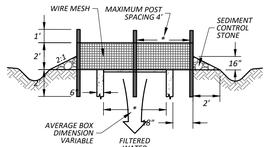
MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2-INCH STONE. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS.

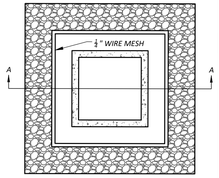
6 TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

N.T.S.
EC-38

NOTES:

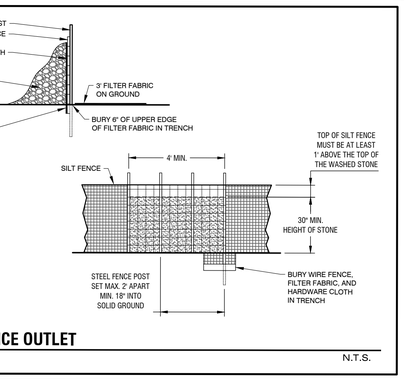
1) SEDIMENT CONTROL STONE SHALL BE # 5 OR # 57 WASHED STONE.
2) WIRE MESH SHALL BE HARDWARE CLOTH, 19 GUAGE (MIN) & SHALL HAVE ½" MESH OPENINGS.
3) TOP OF WIRE MESH SHALL BE A MINIMUM OF 1' BELOW THE SHOULDER OR ANY DIVERSION POINT.
4) PLACE A 2-FOOT FLAP OF THE WIRE MESH UNDER THE GRAVEL FOR ANCHORING.
5) THE SELF-FASTENER ANGLE STEEL TYPE POST SHALL BE 5' IN HEIGHT & INSTALLED 2' DEEP (MIN).





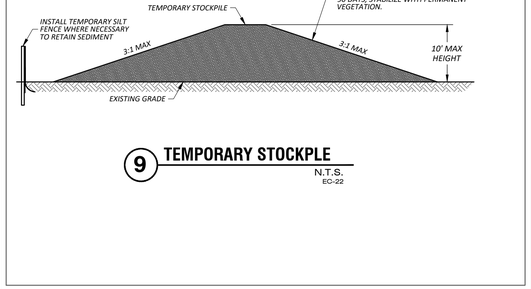
7 ROCK INLET SEDIMENT TRAP

N.T.S.
X-#



8 SILT FENCE OUTLET

N.T.S.



9 TEMPORARY STOCKPLE

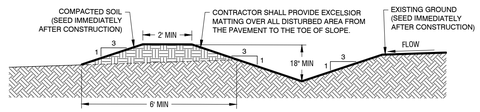
N.T.S.
EC-22

CONSTRUCTION SPECIFICATIONS

1. REMOVE AND PROPERLY DISPOSE OF ALL TREES, BRUSH, STUMPS, AND OTHER OBJECTIONABLE MATERIAL.
2. ENSURE THAT THE MINIMUM CONSTRUCTED CROSS SECTION MEETS ALL DESIGN REQUIREMENTS.
3. ENSURE THAT THE TOP OF THE DIKE IS NOT LOWER, AT ANY POINT, THAN THE DESIGN ELEVATION PLUS THE SPECIFIED SETTLEMENT.
4. PROVIDE SUFFICIENT ROOM AROUND DIVERSIONS TO PERMIT MACHINE REGRADING AND CLEANOUT.
5. VEGETATE THE RIDGE IMMEDIATELY AFTER CONSTRUCTION, UNLESS IT WILL REMAIN IN PLACE LESS THAN 30 WORKING DAYS.

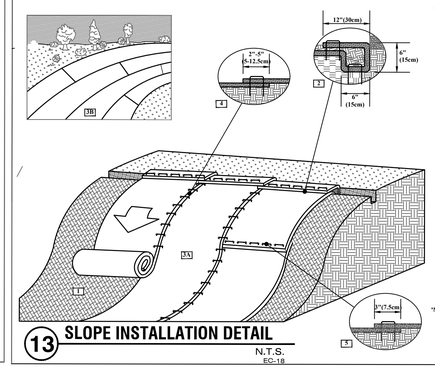
MAINTENANCE:

INSPECT TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA NO REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED. WHEN THE AREA PROTECTED IS PERMANENTLY STABILIZED, REMOVE THE RIDGE AND THE CHANNEL TO BLEND WITH THE NATURAL GROUND LEVEL AND APPROPRIATELY STABILIZE IT.



10 TEMPORARY AND PERMANENT SWALE

N.T.S.



12 TYPICAL ENERGY DISSIPATORS

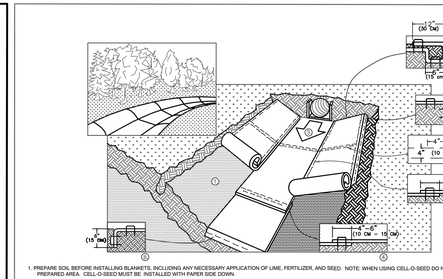
N.T.S.
EC-18

1. Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed.
2. Begin at the top of the slope by anchoring the RECPs in a (6"(15cm) deep X 6"(15cm) wide trench with approximately 12" (30cm) of RECPs extended beyond the up-slope portion of the trench. Anchor the RECPs with a row of staples/stakes approximately 12" (30cm) apart across the top end of the trench. Backfill and compact the trench after stapling. Apply seed to the compacted soil and fold the remaining 12"(30cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes spaced approximately 12"(30cm) apart across the width of the RECPs.
3. Roll the RECPs (A) down or (B) horizontally across the slope. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staple pattern guide.
4. The edges of parallel RECPs must be stapled with approximately 2" - 3" (5-12.5cm) overlap depending on the RECPs type.
5. Consecutive RECPs spliced down the slope must be end over end (Shingle style) with an approximate 3'(1.5cm) overlap. Staple through overlapped area, approximately 12"(30cm) apart across entire RECPs width.

*NOTE:
In loose soil conditions, the use of staple or stake lengths greater than 6"(15cm) may be necessary to properly secure the RECPs.

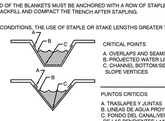
13 SLOPE INSTALLATION DETAIL

N.T.S.
EC-18



1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30 CM) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) ACROSS THE WIDTH OF THE BLANKET.
3. ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM , STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4" - 8" (10 CM -15 CM) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10 CM) APART AND 4" (10 CM) ON CENTER TO SECURE BLANKETS.
5. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
6. ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 2" - 5" (5 CM -12.5 CM) (DEPENDING ON BLANKET TYPE) AND STAPLED.
7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT (9 M - 12 M) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10 CM) APART AND 4" (10 CM) ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL.
8. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

NOTE:
* IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.



CRITICAL POINTS
A. OVERLAPS AND SEAMS
B. PROJECTED WATER LINE
C. CHANNEL BOTTOM/SIDE SLOPE VERTICES

NOTE:
* HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.

** IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 cm) MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.

PUNTOS CRITICOS
A. TRASLAPES Y JUNTAS
B. LINEAS DE AGUA PROYECTADA
C. FONDO DEL CANAL/VERTICES DE LAS PENDIENTES LATERALES

NOTA:
* LA SEPARACION HORIZONTAL DE LAS GRAPAS SE DEBE ALTERAR SI SE NECESITA, PARA PERMITIR QUE LAS GRAPAS ASEGUREN LOS PUNTOS CRITICOS A LO LARGO DE LA SUPERFICIE DEL CANAL.

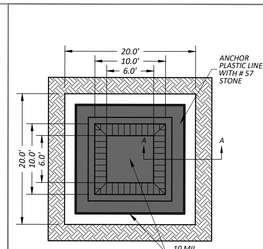
** EN CONDICIONES DE SUELO SUELTO, PUEDE QUE SE NECESITEN GRAPAS O ESTACAS DE MAS DE 6" (15 CM) DE LARGO PARA ASEGURAR LAS MANTAS CORRECTAMENTE.

1. PREPARE EL SUELO DE COLOCAR LAS MANTAS, INCLUYENDO LA APLICASION DE CAL, FERTILIZANTE SEMILLA. NOTA: CUANDO ESTE USANDO CELL-O-SEED NO SIEMBRE EL AREA PREPARADA. CELL-O-SEED TIENE QUE INSTALARSE CON EL LADO DE PAPEL HACIA ABAJO.
2. COMIENCE EN LA CABECERA DEL CANAL SUJETANDO LA MANTA EN UNA ZANJA DE 6" (15 CM) DE PROFUNDIDAD POR 6" (15 CM). DE ANCHO CON APROXIMADAMENTE 12" (30 CM) DE MANTA EXTENDIDO MAS ALLA DE LA PORCION DE LA PENDIENTE DEL TALUD DE LA ZANJA. ANCLE LA MANTA CON UNA FILA DE GRAPAS/ESTACAS DEL ENGRAPE. REDUCE LA SEMILLA EN EL SUELO COMPACTADO Y DOBLE LAS 12" (30 CM) REMANENTES DE MANTA SOBRE LA SEMILLA Y EL SUELO COMPACTADO. ASEGURE LA MANTA SOBRE EL SUELO CON UNA LINEADE GRAPAS O ESTACAS APROXIMADAMENTE 12" (30 CM) UNA DE LA OTRA A TRAVES DEL ANCHO DE LA MANTA.
3. DESENROLLE LA MANTA DEL MEDIO EN EL FONDO DEL CANAL Y EN LA DIRECCION DEL FLUJO DE AGUA CON EL LADO APROPIADO HACIA LA SUPERFICIE DEL SUELO. TODAS LAS MANTAS DEBERAN ASEGURARSE A LA SUPERFICIE DEL SUELO POR MEDIO DE GRAPAS O ESTACAS EN LUGARES APROPIADOS TAL Y COMO SE INDICA EN EL PATRON GUIA DE ENGRAPADO. CUANDO ESTE USANDO EL SOT SYSTEM , LAS GRAPAS O ESTACAS DEBEN COLOCARSE A TRAVES DE CADA UNO DE LOS PUNTOS CON COLOR CORRESPONDIENTES AL PATRON DE ENGRAPADO APROPIADO.
4. COLOQUE LAS MANTAS CONSECUTIVAS BORDE SOBRE BORDE (TIPO ESCALONADO) CON UN TRASLAPE DE 4" - 8" (10 CM - 15 CM). USE UNA LINEA DOBLE DE GRAPAS ESCALONADAS, SEPARADAS POR 4" (10 CM) Y CADA 4" (10 CM) SOBRE EL CENTRO PARA ASEGURAR LAS MANTAS.
5. EN EL TOPE DE LAS DOS PENDIENTES LATERALES DEL CANAL, SE DEBE SUJETAR TODO EL LARGO DE LA ORILLA DE LAS MANTAS CON UNA LINEA DE GRAPAS O ESTACAS APROXIMADAMENTE CADA 12" (30 CM) UNA DE LA OTRA EN UNA ZANJA DE 6" (15 CM) DE PROFUNDIDAD POR 6" (15 CM) DE ANCHO. RELLENE Y COMPACTE LA ZANJA DESPUES DEL ENGRAPE.
6. LAS MANTAS ADYACENTES DEBEN TRASLAPARSE APROXIMADAMENTE DE 2" - 5" (5 CM- 12.5 CM) (DEPENDIENDO DEL TIPO DE MANTA) Y ENGRAPARSE.
7. EN APLICACIONES PARA CANALES DE FLUJO ALTO, SE RECOMIENDA DEJAR UNA RANURA PARA EL CHEQUEO DE LAS GRAPAS A INTERVALOS DE 30 A 40 PIES (9 M - 12 M). USE UNA LINEA DOBLE DE PRAPAS ESCALONADAS, SEPARADAS POR 4" (10 CM) Y CADA 4" (10 CM) SOBRE EL CENTRO A TRAVES DE TODO EL ANCHO DEL CANAL.
8. LOS BORDES FINALES DE LAS MANTAS DEBEN SUJETARSE CON UNA LINEA DE GRAPAS O ESTACAS APROXIMADAMENTE CADA 12" 30 CM) UNA DE LA OTRA EN UNA ZANJA DE 6" (15 CM) DE PROFUNDIDAD POR 6" (15 CM) DE ANCHO. RELLENE Y COMPACTE DESPUES DEL ENGRAPADO.

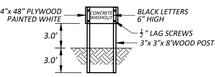
NOTA:
* EN CONDICIONES DE SUELTO, PUEDE QUE SE NECESITEN GRAPAS O ESTACAS DE MAS DE 6" (15 CM) DE LARGO PARA ASEGURAR LAS MANTAS CORRECTAMENTE.

14 CHANNEL INSTALLATION

N.T.S.



NOTES:
1) ACTUAL LAYOUT TO BE DETERMINED IN FIELD.
2) THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
3) PIT CAPACITY IS A MIN. OF 6 CFT. PER 10 CYD. OF CONCRETE.
4) CONTRACTOR TO COORDINATE PROPER DISPOSAL OF CONCRETE.



11 CONCRETE WASHOUT PIT

N.T.S.
EC-36

WATTLES

MAINTENANCE REQUIREMENTS

1. **INSPECT WEEKLEY AND AFTER RAIN.**
2. **EXPECT DAMAGE FROM HIGH FLOW WASHING AROUND EDGES OF THE WATTLE; REPAIR IMMEDIATELY.**
3. **REMOVE ACCUMULATED SEDIMENT AS NECESSARY TO PREVENT DAMAGE TO CHANNEL VEGETATION.**
4. **ADJUST ELEVATIONS AS NECESSARY.**
5. **DO NOT USE IN JURISDICTIONAL WATERS.**

STONE FLUME

MAINTENANCE REQUIREMENTS

1. **INSPECT FLUMES AFTER EACH RAIN FALL UNTIL ALL AREAS ADJOINING THE FLUME ARE PERMANENTLY STABILIZED.**
2. **REPAIR ALL DAMAGE IMMEDIATELY.**
3. **INSPECT OUTLET AND ROCK RIP-RAP TO ASSURE PRESENCE AND STABILITY.**
4. **ANY MISSING COMPONENTS SHOULD BE IMMEDIATELY REPLACED.**

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GENERAL NOTES

NO	REVISION	DATE

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 32324 STEPHEN JANOUSEK

JKF ARCHITECTURE

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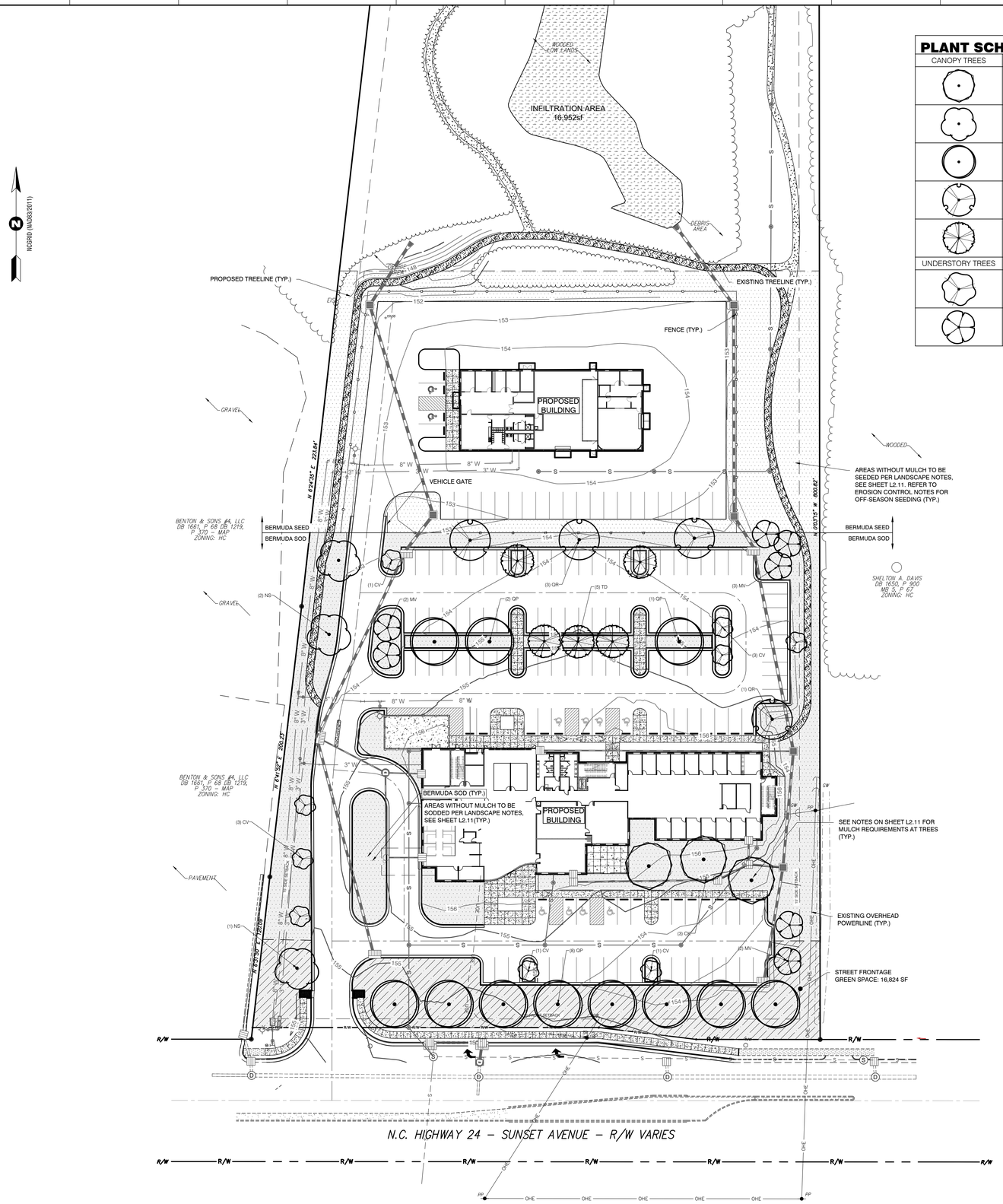
SCO# 19-20081-01A; NCCCS #2436

STAR COMMUNICATIONS NEW HEADQUARTERS
CITY OF CLINTON- SAMPSON COUNT- NC

DRAWING TITLE
EROSION CONTROL DETAILS

SCALE	AS SHOWN
DRAWN	MS
CHECKED	JSJ
DATE	07-15-2023
PROJECT NO.	202311
DRAWING NO	C 6.3

R:\LANDDEV\JKF-STAR_COMM_CLINTON\-20230111\CADD_DWG\SHEETS\C6.3 EROSION_DETAILS.DWG - C 6.3 EROSION CONTROL DETAILS - 7/14/2023 11:49:34 AM - SAM FLOYD



PLANT SCHEDULE

CANOPY TREES	CODE	BOTANICAL / COMMON NAME	CONTAINER	CALIPER	SIZE	QTY
	CK	Cladrastis kentukea / American Yellowwood	B & B	3" CAL.	14` - 16` HT.	3
	NS	Nyssa Sylvatica / Black Gum	B & B	3" CAL.	14` - 16` HT.	3
	QP	Quercus phellos `Hightower` / Willow Oak	B & B	3" CAL.	14` - 16` HT.	11
	QR	Quercus shumardii / Shumard Red Oak	B & B	3" CAL.	14` - 16` HT.	4
	TD	Taxodium distichum / Bald Cypress	B & B	3" CAL.	14` - 16` HT.	5
UNDERSTORY TREES	CODE	BOTANICAL / COMMON NAME	CONTAINER	CALIPER	SIZE	QTY
	CV	Chionanthus virginicus / White Fringetree	15 gal	2" CAL.	8`-12` HT.	9
	MV	Magnolia virginiana / Sweet Bay Magnolia	15 gal	2" CAL.	8`-12` HT.	7

LANDSCAPE CALCULATIONS:

LOT AREA: +/-501,033 SF
CONSTRUCTION SITE AREA: +/-217,640
A. GREEN SPACE
REQUIRED:
MINIMUM 15% OF SITE AREA DESIGNATED FOR GREEN SPACE. CONSTRUCTION SITE AREA CALCULATION SHALL INCLUDE ALL PORTIONS OF THE PARCEL USED FOR DEVELOPMENT, INCLUDING 15' BEYOND REAR OF CONSTRUCTION SITE.
217,640 X .15 = 32,646 SF GREEN SPACE REQUIRED.
50% OF REQUIRED GREEN SPACE SHALL BE LOCATED ALONG STREET FRONTAGE WITH MOST TRAFFIC AND VISIBILITY.
32,646 X .5 = 16,399 SF OF GREEN SPACE ALONG FRONTAGE REQUIRED.

PROVIDED:
TOTAL GREEN SPACE AREA = 78,828 SF
GREEN SPACE AREA AT SUNSET AVENUE FRONTAGE = 16,824 SF

B. BUFFERS
REQUIRED:
BUFFERS REQUIRED WHERE SITE, ZONED HC, ABUTS LAND ZONED FOR RESIDENTIAL USE.
NORTH - NONE REQUIRED, DOES NOT ABUT RESIDENTIAL ZONE
EAST - NONE REQUIRED, DOES NOT ABUT RESIDENTIAL ZONE
SOUTH - NONE REQUIRED, DOES NOT ABUT RESIDENTIAL ZONE
WEST - NONE REQUIRED, DOES NOT ABUT RESIDENTIAL ZONE

PROVIDED: N/A

LEGEND
GREEN SPACE
STREET FRONTAGE GREEN SPACE
BERMUDA SOD

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RAI Project #2023011

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EDA INVESTMENT NO. 04-01-07418
SCO# 19-20081-01A; NCCCS #2436

40' 0 20' 40'
SCALE 1 inch = 40 ft

NO	REVISION	DATE

SEAL
NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT SEAL 0759 7/15/23 PAUL R. MEDLIN

JKF ARCHITECTURE
625 LYNNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

STAR COMMUNICATIONS
NEW HEADQUARTERS
CITY OF CLINTON- SAMPSON COUNT- NC

DRAWING TITLE
LANDSCAPE PLAN-SOUTH

SCALE	DRAWING NO
AS SHOWN	L 1.11
DRAWN: SBF	
CHECKED: PRM	
DATE: 07-15-2023	
PROJECT NO.: 202311	

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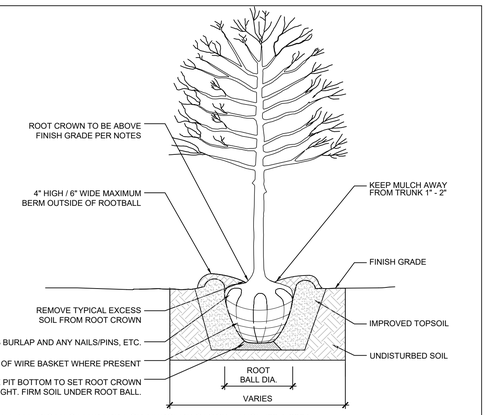
NOTES:

1. ALL TREES ARE TO BE NURSERY GROWN, BALL AND BURLAP (B&B) OR CONTAINER GROWN.
2. REMOVE ALL TREATED OR PLASTIC-COATED BURLAP, STRAPPING WIRE OR NYLON TWINE FROM ROOTBALL AFTER SETTING IN HOLE, CUT AWAY TOP AND SIDES OF WIRE BASKET, IF ANY.
3. INSTALL TOP OF PLANT BALL EVEN 2-3" ABOVE EXISTING GRADE.
4. TAMP PLANTING MIX FIRMLY AS PIT IS FILLED AROUND EACH PLANT BALL.
5. SOAK ROOT BALL AND PLANT PIT IMMEDIATELY AFTER INSTALLATION.
6. SET TREE IN VERTICAL POSITION & STAKE IF / AS NEEDED
7. SUBMIT PREFERRED STAKING METHODS IF/AS NEEDED AND MATERIALS TO LANDSCAPE ARCHITECT FOR APPROVAL
8. ALL STAKING TO BE REMOVED AFTER ONE YEAR GROWING SEASON
9. REMOVE EXCESS SOIL FROM SITE AND DISPOSE OF IN A LEGAL MANNER.
10. RESEED UNMULCHED, DISTURBED AREAS.
11. MULCH AREA TO BE A MINIMUM 2' RADIUS FROM TREE TRUNK.
12. SEE SPECS FOR ADDITIONAL PLANTING INFORMATION



ALL TREES SHALL MEET AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2004)

FOR EXAMPLE: CALIPER	HEIGHT (RANGE)	MAX. HEIGHT	MIN. ROOT BALL DIA.	MIN. ROOT BALL DEPTH
2"	12'-14'	18'	24"	18"
3"	14'-16'	18'	32"	21"
4"	16'-18'	22'	42"	25"

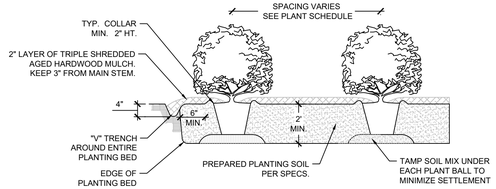
TREE PLANTING

SECTION

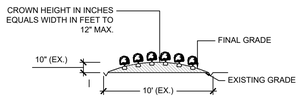
NTS

NOTES:

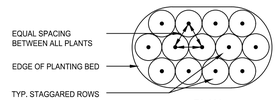
1. SCARIFY ROOT MASS OF CONTAINERIZED PLANT MATERIAL.
2. INSTALL CONTAINERIZED PLANTS 2-3" ABOVE FINISHED GRADE.
3. TAMP PLANTING MIX FIRMLY AS PIT IS FILLED AROUND EACH PLANT BALL.
4. OMIT COLLAR AROUND EACH SHRUB WHEN IRRIGATION SYSTEM IS PRESENT.
5. SOAK EACH PLANT BALL AND PIT IMMEDIATELY AFTER INSTALLATION.



TYPICAL PLANTING BED DETAIL



TYPICAL BED CROWNING



PLAN

SHRUB PLANTING BED

SECTION

NTS

NOTES:

1. BOUNDARY AND TOPOGRAPHIC SURVEY PROVIDED BY ATLANTIC SURVEYING, P.A.
2. CONTRACTOR SHALL FIELD VERIFY LOCATION, SIZE, AND MATERIAL OF EXISTING SITE AND VICINITY FEATURES AND UTILITIES PRIOR TO BEGINNING DEMOLITION AND CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL NOTIFY THE CIVIL ENGINEER AND LANDSCAPE ARCHITECT OF ANY DISCREPANCIES THAT ARE FOUND BETWEEN THE EXISTING FIELD CONDITIONS AND THE SITE PLANS OR CONSTRUCTION DRAWINGS, WHENEVER THEY ARE FOUND, DURING ALL PHASES OF SITE WORK.
3. THE PRUNING OF SCREENING SHRUBS SHALL ALLOW FOR LATERAL GROWTH OF BRANCHES SO AS TO FORM A HEDGE.
4. ALL LANDSCAPE ISLANDS, BEDS AND LAWNS SHALL BE GRADED FOR POSITIVE DRAINAGE WITH NO LOW SPOTS ALLOWING WATER TO BE TRAPPED.
5. CONTRACTOR SHALL PLANT TREES AND SHRUBS 5 FEET FROM BACK OF CURB WHEN PLANTED PERPENDICULAR FROM PARKING SPACES.
6. WHEEL STOPS ARE REQUIRED IF LANDSCAPING CANNOT BE SET BACK 5 FEET.
7. CONTRACTOR SHALL INSTALL ALL SHRUBS IN MULCHED BEDS.
8. CONTRACTOR SHALL INSTALL ALL TREES IN MINIMUM 4'-6' DIA. MULCHED BEDS OF 3-4" DEPTH.
9. WHERE TREES AND SHRUBS ARE LOCATED TOGETHER IN LANDSCAPE BUFFERS, THE CONTRACTOR SHALL MULCH THE FULL WIDTH AND LENGTH OF THE BUFFER.
10. ALL UN-MULCHED AREAS OF THE SITE SHALL BE SODDED OR SEEDED WITH LAWN GRASS. SEE PLAN FOR SOD/SEED LOCATIONS. GRASS SEED SELECTION SHALL BE SUBMITTED TO AND APPROVED BY THE LANDSCAPE ARCHITECT, PRIOR TO PURCHASE AND INSTALLATION.
11. SEE SPECS FOR ADDITIONAL INFORMATION.

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SCO# 19-20081-01A; NCCCS #2436

PLANTING NOTES:

1. ALL PLANTINGS SHALL COMPLY WITH CURRENT LOCAL ORDINANCES AND GUIDELINES.
2. THIS PLAN IS FOR PLANTING LOCATIONS ONLY **AND** ALL PLANT MATERIAL SHALL BE SPACED AND LOCATED PER SCHEDULE. HOWEVER, CONTRACTOR TO SLIGHTLY ADJUST PLANT LOCATIONS IN THE FIELD AS NECESSARY TO BE CLEAR OF DRAINAGE SWALES AND UTILITIES. IF FOUND CONDITIONS VARY FROM THIS PLAN, CONTRACTOR **SHALL** CONTACT OWNER AND LANDSCAPE ARCHITECT FOR RESOLUTION. FAILURE TO DO SO WILL RESULT IN CONTRACTOR'S LIABILITY TO REPLACE PLANT MATERIALS.
3. REFER TO PLANTING DETAILS FOR ADDITIONAL PLANTING INFORMATION.
4. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL PLANT WATERING AND MAINTENANCE, INCLUDING SHRUBS AND GROUNDCOVER, AND SHALL MAINTAIN AREA IN A WEED AND DEBRIS FREE CONDITION, THROUGHOUT GUARANTEE PERIOD.
5. CONTRACTOR TO VERIFY PLANT LIST TOTALS WITH QUANTITIES SHOWN ON PLAN.
6. ALL SIZES SPECIFIED IN THE PLANT LIST ARE MINIMUM SIZES TO WHICH THE PLANTS ARE TO BE JUDGED. FAILURE TO MEET MINIMUM SIZE ON ANY PLANT WILL RESULT IN REJECTION OF THAT PLANT.
7. PLANTING SIZE DETERMINATION:
   - 7.1. TREES: HEIGHT SHALL BE MEASURED FROM THE CROWN OF THE ROOT BALL TO THE TOP OF MATURE GROWTH. SPREAD SHALL BE MEASURED TO THE END OF BRANCHING EQUALLY AROUND THE CROWN FROM THE CENTER OF THE TRUNK. MEASUREMENTS ARE NOT TO INCLUDE ANY TERMINAL GROWTH. SINGLE TRUNK TREES SHALL BE FREE OF "V" CROTCHES THAT COULD BE POINTS OF WEAK LIMB STRUCTURE OR DISEASE INFESTATION.
   - 7.2. ALL PLANTS SHALL BE FRESHLY DUG OR IN GROW POTS, SOUND, HEALTHY, VIGOROUS, WELL BRANCHED, FREE OF DISEASE, INSECT EGGS, AND LARVAE, AND SHALL BE WELL ROOTED.
8. FINISHED PLANTING BEDS SHALL BE GRADED SO AS TO NOT IMPEDE DRAINAGE AWAY FROM BUILDINGS. IF SIGNIFICANT RELOCATIONS ARE REQUIRED, CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT FOR RESOLUTION. FAILURE TO MAKE SUCH RELOCATIONS KNOWN TO THE OWNER AND LANDSCAPE ARCHITECT WILL RESULT IN CONTRACTOR'S LIABILITY FOR PLANT MATERIALS AND STORMWATER DAMAGE.
9. FIELD LOCATE AND VERIFY UNDERGROUND UTILITIES LOCATIONS PRIOR TO PLANTING. FINAL TREE LOCATIONS TO BE FIELD ADJUSTED TO AVOID CONFLICTS WITH UTILITIES, LIGHTING AND DRIVEWAY LOCATIONS. WHERE POSSIBLE, CONTACT LANDSCAPE ARCHITECT FOR A COORDINATED SOLUTION FOR ANY UTILITY CONFLICTS. CONTRACTOR SHALL BE LIABLE FOR DAMAGE TO ANY AND ALL PUBLIC OR PRIVATE UTILITIES.
10. TREES SHALL BE STAKED WITH AN AT GRADE TREE STAKING SYSTEM. STAKING MUST BE REMOVED AS SOON AS POSSIBLE OR WITHIN ONE (1) YEAR OF PLANTING. MULCH SHALL BE APPLIED IN AN EVEN THREE INCH (3") TO TO FOUR INCH (4") LAYER AROUND THE TREE PIT IN ACCORDANCE WITH ACCEPTED PRACTICES IN THE LANDSCAPE INDUSTRY.
11. CONTRACTOR SHALL NOT PLACE MULCH IN CONTACT WITH THE TRUNKS OF TREES OR SHRUBS.
12. ALL TREE PITS, SHRUB BEDS AND PREPARED PLANTING BEDS ARE TO BE COMPLETELY EXCAVATED IN ACCORDANCE WITH THE PLANTING DETAILS.
13. THE ROOT CROWN SHALL BE TWO INCHES (2") TO FOUR INCHES (4") ABOVE FINISHED GRADE (AFTER SETTLING) FOR SHRUBS AND ONE QUARTER (¼ TO ONE HALF (½ THE BALL DEPTH ABOVE FINISH GRADE (AFTER SETTLING) FOR TREES.
14. ALL SUBSTITUTIONS OF PLANT MATERIAL ARE TO BE REQUESTED IN WRITING TO THE LANDSCAPE ARCHITECT AND APPROVED IN WRITING BY THE OWNER PRIOR TO INSTALLATION. FAILURE TO OBTAIN SUBSTITUTION APPROVAL IN WRITING MAY RESULT IN LIABILITY TO THE CONTRACTOR.
15. DEAD PLANTS ARE TO BE REMOVED FROM THE JOB BY THE CONTRACTOR WEEKLY. CONTRACTOR SHALL MAINTAIN AN UPDATED, COMPREHENSIVE LIST OF ALL DEAD MATERIALS REMOVED AND PRESENT A COPY OF THE LIST TO THE OWNER AND THE LANDSCAPE ARCHITECT AT THE END OF EVERY MONTH DURING THE CONTRACT PERIOD.
16. TOPSOIL REQUIRED FOR SOIL MIXES AND SPECIAL SEEDING AREAS SHALL BE PROVIDED BY THE CONTRACTOR. CONTRACTOR MUST LOAD, HAUL, MIX, AND SPREAD ALL TOPSOIL AND OTHER SOIL ADDITIVES AS REQUIRED.
17. THE PROPERTY OWNER AND/OR LESSEE SHALL, UPON COMPLETION OF THE GUARANTEE PERIOD AND FINAL ACCEPTANCE OF THE LANDSCAPE MATERIALS, MAINTAIN ALL LANDSCAPE MATERIALS AND LANDSCAPE AREAS IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN. MAINTENANCE SHALL INCLUDE WATERING, WEEDING, MOWING, FERTILIZING, TREATING PESTS, MULCHING, PRUNING, REMOVAL AND REPLACEMENT OF DEAD OR DISEASED TREES AND SHRUBS. MAINTENANCE SHALL BE PERFORMED ON A REGULAR BASIS IN ORDER TO MAINTAIN PLANT VIGOR AND STABILITY AND TO PRESENT A NEAT AND WELL-KEPT APPEARANCE AT ALL TIMES.
18. CONTRACTOR SHALL GUARANTEE ALL LANDSCAPE IMPROVEMENTS, INCLUDING SEEDING, AS REQUIRED BY THE SPECIFICATIONS. CONTRACTOR MUST CONTACT THE OWNER AND THE LANDSCAPE ARCHITECT AT LEAST 10 WORKING DAYS IN ADVANCE TO SCHEDULE ACCEPTANCE INSPECTION(S). CONTRACTOR MUST REPLACE ALL DEAD OR UNACCEPTABLE PLANTS DURING THE FOLLOWING RECOMMENDED PLANTING SEASON.
19. ALL TREES AND SHRUBS SHALL MEET THE NORMAL REQUIREMENTS FOR THE AMERICAN STANDARD FOR NURSERY STOCK, LATEST EDITION, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMAN (AAN) OR AMERICANHORT, ANSI Z60.1.
20. MULCH SHALL BE FREE OF DEBRIS AND WOOD CHIPS. IT SHALL CONSIST OF AGED TRIPLE-SHREDDED HARDWOOD MULCH, FREE OF EXCESS TANNIC ACID OR OTHER MULCH AS SPECIFIED ON THE PLANS. SAMPLES OF MULCH SHALL BE PROVIDED FOR THE THE LANDSCAPE ARCHITECT'S APPROVAL PRIOR TO DELIVERING THE MULCH. THE OWNER RESERVES THE RIGHT TO REJECT ANY MULCH WHICH IS CONSIDERED TO BE UNSUITABLE. ALL MULCHES SHALL BE FREE OF ANY FOREIGN MATERIALS, PIECES LARGER THAN 6 INCHES, AND/OR GREEN WOOD.
21. ALL STRAPPING AND TOP 2/3 OF WIRE BASKET MUST BE CUT AWAY AND REMOVED FROM ROOT BALL PRIOR TO BACKFILLING PLANTING PIT. REMOVE TOP 1/3 OF THE BURLAP FROM THE ROOT BALL. REMOVE ALL SYNTHETIC MATERIALS: BURLAP, STRAPPING CORDAGE, ETC. PRIOR TO BACKFILLING ALL PLANT MATERIALS.
22. NO PLANTING IDENTIFIED AS REACHING A MATURE HEIGHT OF MORE THAN TWENTY FEET (20') SHALL BE PLACED WITHIN A TRANSMISSION POWER LINE RIGHT-OF-WAY OR WITHIN TEN FEET (10') OF AN OVERHEAD UTILITY LINE.
23. TREES WHICH OVERHANG THE PEDESTRIAN CIRCULATION ROUTES AT THE STREETS, SIDEWALKS OR WITHIN OPEN SPACE AREAS SHALL NOT EXTEND GREATER THAN FOUR INCHES INTO THE CIRCULATION ROUTE AT A HEIGHT LESS THAN 80 INCHES ABOVE THE ADJACENT GRADE. ALL TREES SHALL BE LIMBED TO PROVIDE 80 INCHES OF CLEARANCE AT WALKWAYS TO MEET A.D.A AND ANSI Z60.1 REQUIREMENTS.

NO	REVISION	DATE

SEAL

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 0757 7/15/23 JOHN R. MEYER

JKF ARCHITECTURE

625 LYNNDALE CT., SUITE F, GREENVILLE, NC 27858 252-355-1068

STAR COMMUNICATIONS
NEW HEADQUARTERS
CITY OF CLINTON- SAMPSON COUNT- NC

DRAWING TITLE

LANDSCAPE NOTES AND DETAILS

SCALE: AS SHOWN	DRAWING NO: L 2.11
DRAWN: SBF	
CHECKED: PRM	
DATE: 07-15-2023	
PROJECT NO.: 202311	

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