

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF INSTALLING A NEW UNMANNED SHELTER ON A NEW CONCRETE PAD AT GRADE.

PROJECT INFORMATION

APPLICANT ADDRESS: BECHTEL ASSOCIATES PROFESSIONAL CORPORATION
100 PERIMETER PARK DRIVE, SUITE H
MORRISVILLE, NC 27560

PROJECT MANAGER: BETTY CHANG

ENGINEERING CONTACT: PAUL KOSKI

PERMITTING CONTACT: DAVID PHELPS

JURISDICTION: TOWN OF CARRBORO, NC

LATITUDE: N 35.9114674 (WGS84)

LONGITUDE: W -79.0822505 (WGS84)

PROPERTY OWNER: TOWN OF CARRBORO

Fiber Project

ZONING PERMIT

SITE NAME: WESTWOOD CEMETERY

FIBER LAS ID NO.: RDU-130

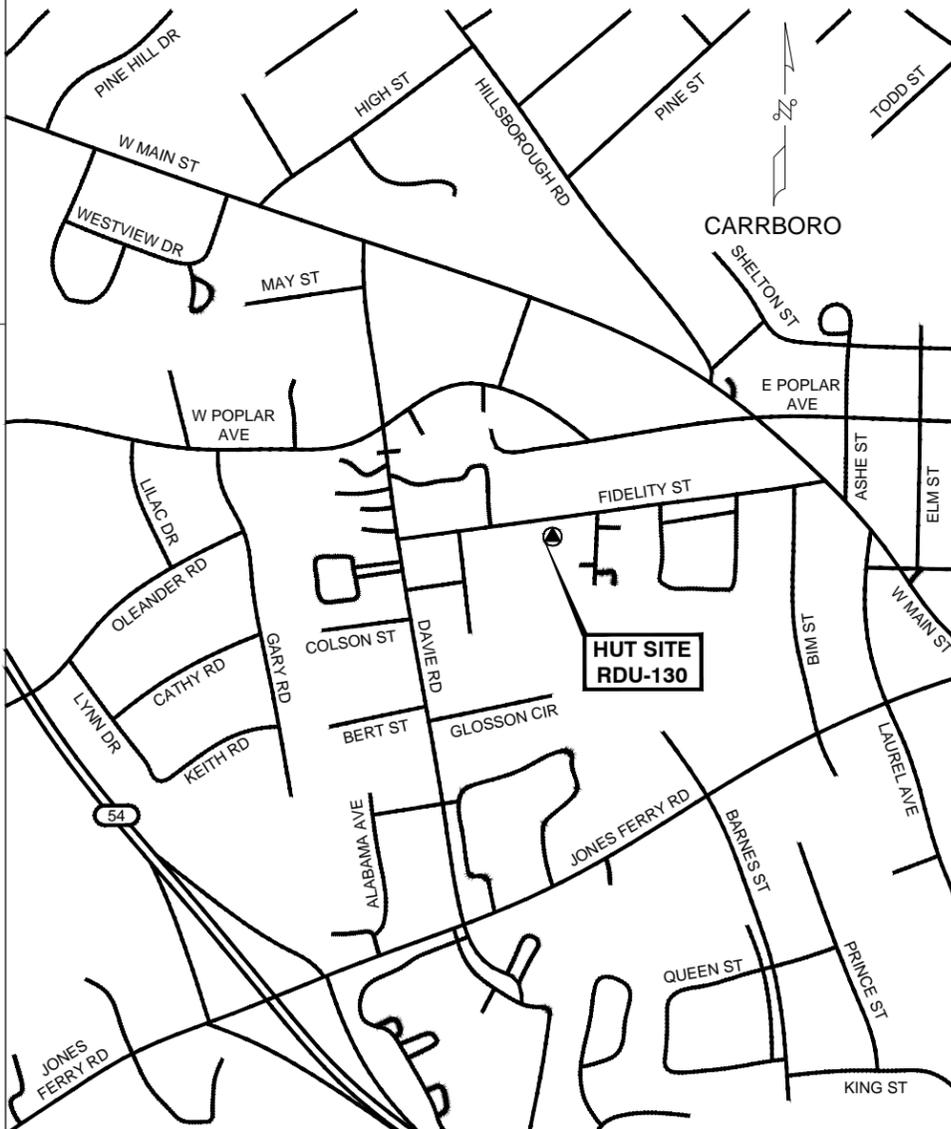
FIBER HUT FACILITY DEPLOYMENT PROJECT

DRAWING INDEX

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VICINITY MAP

DIRECTION: FROM BECHTEL OFFICE LOCATED AT 100 PERIMETER PARK DR, MORRISVILLE, NC 27560 DEPART PERIMETER PARK DR TOWARD AIRPORT BLVD. TURN RIGHT ONTO AIRPORT BLVD. TURN LEFT AND MERGE ONTO I-40 WEST. TAKE EXIT 273A FOR NC-54 WEST TOWARD CHAPEL HILL. MERGE ONTO NC-54 WEST. SLIGHT RIGHT ONTO NC-54 WEST/US 501 SOUTH. TAKE THE JONES FERRY RD EXIT TOWARD CARRBORO. TURN RIGHT ONTO JONES FERRY RD. TURN LEFT ONTO DAVIE RD AND ARRIVE AT HUT LOCATION RDU-130 ON RIGHT 0.3 MILES FROM INTERSECTION.



APPLICABLE BUILDING CODES AND STANDARDS

SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

BUILDING CODE:
[INTERNATIONAL BUILDING CODE] IBC & IRC [STATE BUILDING CODE] - CURRENT VERSION

ELECTRICAL CODE:
[NATIONAL ELECTRICAL CODE] NEC NFPA 70
[FIRE/LIFE SAFETY CODE] NFPA-101 LIFE SAFETY CODE

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION ANSI-J-STD-607-A,
COMMERCIAL BUILDING GROUNDING (EARTHING) AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS
NECA/BICSI-607, TELECOMMUNICATIONS BONDING AND GROUNDING PLANNING AND INSTALLATION METHODS FOR COMMERCIAL BUILDINGS
TIA 607, COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS

INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM
IEEE 1100 RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONIC EQUIPMENT

IEEE C2 NATIONAL ELECTRIC SAFETY CODE, LATEST VERSION

TELCORDIA GR-1275, GENERAL INSTALLATION REQUIREMENTS

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

ALL CONSTRUCTION MUST BE PERFORMED IN ACCORDANCE WITH CURRENT TOWN OF CARRBORO SECTION 15-176.6 DATA SERVICE PROVIDED FACILITIES ITEMS (A) THRU (M).

GENERATOR NOTE: PROPOSED PROJECT CONTAINS A CUMMINS GGHG 85 KW GENERATOR. GENERATOR WILL HAVE A NATURAL GAS CONNECTION AND NO FUEL STORAGE TANKS ARE PROPOSED. GENERATOR WILL BE APPROXIMATELY 3' FROM THE PROPOSED BUILDING.

SUMMARY INFORMATION

PIN	9778563356
PROPERTY AREA	8.73 ACRES
EXISTING BUILDING AREA	0 SF
PROPOSED BUILDING AREA	360 SF
EXISTING USE CATEGORIES	21.100 CEMETERY
PROPOSED USE CATEGORIES	21.100 CEMETERY, AND 15.750 DATA SERVICE PROVIDER FACILITY
PARKING DATA	0 REQUIRED, 1 PROVIDED (IN DRIVEWAY)/STANDARD
CURRENT IMPERVIOUS	0.44 AC. (5.0% OF SITE)
PROPOSED IMPERVIOUS	0.09 AC. (1.0% OF SITE)
TOTAL IMPERVIOUS AREA	0.53 AC. (6.1% OF SITE)
TOTAL DISTURBED AREA	0.25 AC
PROPOSED BUILDING HEIGHT	13' 3-3/8" - 1 STORY
ZONING	R-10, ZS
PROPERTY ADDRESS	145 FIDELITY ST., CARRBORO, NC 27510



Dewberry Engineers Inc.
2610 WYCLIFF ROAD
SUITE 410
RALEIGH, NC 27607
PHONE: 919.881.9939
FAX: 919.881.9923
NC LICENSE No.: F-0929

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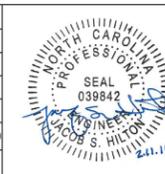
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Fiber Project

NO.	DATE	REVISIONS	BY	CHK	SUPV	APP'D
2	02-11-16	RESPONSE TO TOWN COMMENTS	CPR	LWM	LWM	LWM
1	01-25-16	RESPONSE TO TOWN COMMENTS	CPR	LWM	LWM	LWM
0	08-28-15	ZONING SUBMITTAL	JJB	LWM	LWM	LWM

SCALE: AS SHOWN DESIGNED BY: JJB DRAWN BY: JJB

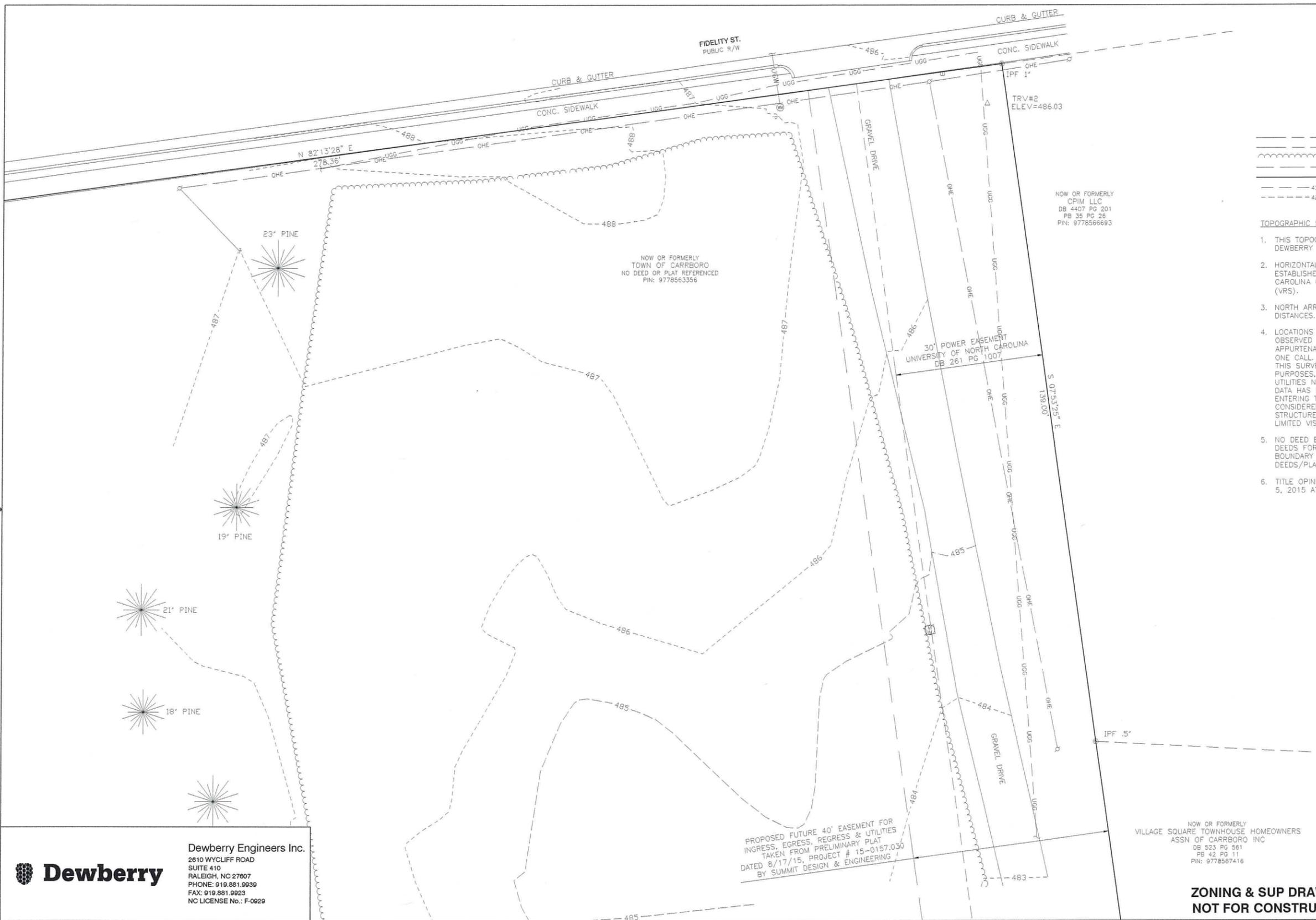
**ZONING & SUP DRAWINGS
NOT FOR CONSTRUCTION**



Fiber Project

TITLE SHEET

DRAWING NO.	SHEET NO.	REV
25927-210	H0130-00000-ZN-70001	01
		2



- LEGEND**
- Y GUY WIRE
 - ⊗ IRON PIPE FOUND
 - ⊠ MONUMENT FOUND
 - ⊙ MONITORING WELL
 - ⊕ UTILITY PEDESTAL
 - ⊕ SIGN
 - △ TRAVERSE
 - ⬢ TEST PIT
 - ⊙ WATER METER
 - ⊙ POWER POLE
 - UGG UNDERGROUND GAS
 - UGW UNDERGROUND WATER
 - TREELINE
 - OHE OVERHEAD ELECTRIC
 - PROPERTY LINE
 - 430 MAJOR CONTOUR
 - 429 MINOR CONTOUR

- TOPOGRAPHIC SURVEY NOTES:**
- THIS TOPOGRAPHIC SURVEY IS BASED ON A SURVEY PERFORMED BY DEWBERRY ENGINEERS INC. ON MAY 7, 2015.
 - HORIZONTAL CONTROL (NAD83) AND VERTICAL CONTROL (NAVD88) ESTABLISHED BY GPS OBSERVATIONS AND COMPUTED USING NORTH CAROLINA GEODETIC SOCIETY VIRTUAL REFERENCE STATION SERVICE (VRS).
 - NORTH ARROW IS GRID NORTH AND ALL DISTANCES ARE GROUND DISTANCES.
 - LOCATIONS OF UTILITIES SHOWN ON THIS SURVEY WERE DETERMINED BY OBSERVED EVIDENCE, LOCATION OF ABOVE GROUND UTILITY APPURTENANCES, AND UTILITY MARKINGS (PAINT, ETC.) PROVIDED BY NC ONE CALL. THESE MARKINGS WERE OBSERVED DURING THE COURSE OF THIS SURVEY, WERE FIELD LOCATED, ARE SHOWN FOR INFORMATIONAL PURPOSES, AND SHOULD BE FIELD VERIFIED IF CRITICAL. UNDERGROUND UTILITIES NOT SHOWN, MAY EXIST. STORM SEWER AND SANITARY SEWER DATA HAS BEEN COLLECTED FROM THE RIM OF THE MANHOLE WITHOUT ENTERING THE STRUCTURE. PIPE SIZES AND TYPES SHOULD BE CONSIDERED APPROXIMATE AND BE FIELD VERIFIED IF CRITICAL. STRUCTURES LABELED "VAULT", IF ANY, INDICATE A SUBSTRUCTURE WITH LIMITED VISUAL ACCESS AND INVERT INFORMATION.
 - NO DEED BOOK OR PAGE PROVIDED BY ORANGE COUNTY REGISTER OF DEEDS FOR TOWN OF CARRBORO, WESTWOOD CEMETERY. PROPERTY BOUNDARY SHOWN, IS BASED ON FOUND MONUMENTATION, ADJOINING DEEDS/PLATS OF RECORD AND GIS INFORMATION.
 - TITLE OPINION PROVIDED BY BURNS, DAY & PRESNELL, P. A. DATED MAY 5, 2015 AT 8:00 AM.

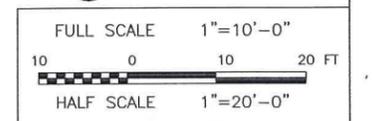
NOW OR FORMERLY
CPIM LLC
DB 4407 PG 201
PB 35 PG 26
PIN: 9778566693

NOW OR FORMERLY
TOWN OF CARRBORO
NO DEED OR PLAT REFERENCED
PIN: 9778563356

30' POWER EASEMENT
UNIVERSITY OF NORTH CAROLINA
DB 261 PG 1007

PROPOSED FUTURE 40' EASEMENT FOR
INGRESS, EGRESS, REGRESS & UTILITIES
TAKEN FROM PRELIMINARY PLAT
DATED 8/17/15, PROJECT # 15-0157.030
BY SUMMIT DESIGN & ENGINEERING

NOW OR FORMERLY
VILLAGE SQUARE TOWNHOUSE HOMEOWNERS
ASSN OF CARRBORO INC
DB 523 PG 561
PB 42 PG 11
PIN: 9778567416



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PHONE: (301) 228-6000

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145 FIDELITY ST.
CARRBORO, NC 27510

Fiber Project

1	01-25-16	RESPONSE TO TOWN COMMENTS	CPR	LWM	LWM	LWM
0	08-28-15	ZONING SUBMITTAL	JJB	LWM	LWM	LWM
NO.	DATE	REVISIONS	BY	CHK	SUPV	APP'D
SCALE: AS SHOWN		DESIGNED BY: JJB	DRAWN BY: JJB			



**ZONING & SUP DRAWINGS
NOT FOR CONSTRUCTION**

Fiber Project		
EXISTING CONDITIONS		
DRAWING NO.	SHEET NO.	REV
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SITE WORK LEGEND

LEGEND

- Y GUY WIRE
- ⊙ IRON PIPE FOUND
- ⊙ MONUMENT FOUND
- ⊙ MONITORING WELL
- ⊙ UTILITY PEDESTAL SIGN
- △ TRAVERSE
- ⊙ TEST PIT
- ⊙ WATER METER
- ⊙ POWER POLE
- ⊙ UNDERGROUND GAS
- ⊙ UNDERGROUND WATER
- ⊙ TREE LINE
- ⊙ OVERHEAD ELECTRIC
- ⊙ PROPERTY LINE
- ⊙ MAJOR CONTOUR
- ⊙ MINOR CONTOUR

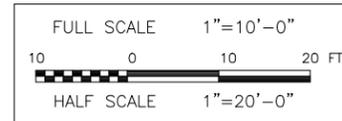
- PROPERTY LINE
- SETBACK LINE
- 8' CHAIN LINK FENCE
- PROPOSED TREE LINE
- EXISTING EASEMENT LINE
- PROPOSED CORRIDOR LINE
- UGG UNDERGROUND ELECTRIC SERVICE
- COMM UNDERGROUND FIBER OPTIC CABLE ROUTE
- T TELEPHONE LINE
- G UNDERGROUND NATURAL GAS SERVICE
- TP TREE PROTECTION FENCE
- GRAVEL PAVEMENT
- CONCRETE PAVEMENT

ZONING TABLE

PROPERTY OWNER	TOWN OF CARRBORO
ACREAGE	8.73 AC.
COUNTY ID NUMBER	PIN: 9778563356
SETBACKS	R-10 ZS FRONT: 25' FRONT: 50' SIDE: 12' SIDE: 24' REAR: 12' REAR: 24'
ZONING	R-10 (RESIDENTIAL)- ZS
CURRENT USE	CEMETERY, VACANT AT PROJECT LOCATION
PROPOSED USE	CEMETERY, DATA SERVICE PROVIDER FACILITY
PROPOSED BUILDING SQUARE FOOTAGE	360 SF
NUMBER OF PARKING SPACES	0 SPACES REQUIRED 1 SPACE PROVIDED IN DRIVEWAY/STANDARD
LOT COVERAGE	PRO. GRAVEL COMPOUND & DRIVEWAY: 3,420 SF (0.09 AC.)-> 1.0% PRO. BUILDING SLAB, GENERATOR PAD, CONCRETE PAD & ENCLOSURE WALL: 578 SF (0.01 AC.)-> 0.1% EX. IMPERVIOUS SURFACE: 19,098 SF (0.44 AC.)-> 5.0% TOTAL IMPERVIOUS SURFACE: 23,096 SF (0.53 AC.)-> 6.1% REMAINING OPEN SPACE: 8.20 AC.-> 93.9%

NOTES:

- NATURAL GAS SERVICE PROVIDER WILL ACQUIRE ITS OWN EASEMENT TO FURNISH SERVICE TO HUT COMPOUND. NATURAL GAS ROUTE SHOWN IS APPROXIMATE AND MAY CHANGE.
- ELECTRIC SERVICE PROVIDER WILL ACQUIRE ITS OWN EASEMENT TO FURNISH SERVICE TO HUT COMPOUND. ELECTRICAL ROUTE SHOWN IS APPROXIMATE AND MAY CHANGE.



ZONING & SUP DRAWINGS NOT FOR CONSTRUCTION

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SCALE:	AS SHOWN	DESIGNED BY:	JJB	DRAWN BY:	JJB	



Fiber Project

SITE & UTILITY PLAN

DRAWING NO.	SHEET NO.	REV
25927-210	H0130-00000-ZN-70001	04 2



LEGEND		SITE WORK LEGEND	
Y	GUY WIRE	---	PROPERTY LINE
⊙	IRON PIPE FOUND	- - -	SETBACK LINE
⊙	MONUMENT FOUND	○-○-○	8' BLACK VINYL COATED CHAIN LINK FENCE
⊙	MONITORING WELL	---	PROPOSED TREE LINE
⊙	UTILITY PEDESTAL	---	EXISTING ACCESS EASEMENT LINE
⊙	SIGN	---	PROPOSED CORRIDOR LINE
△	TRAVERSE	---	UGG
⊙	TEST PIT	---	UGW
⊙	WATER METER	---	OHE
⊙	POWER POLE	---	COMM
⊙	UNDERGROUND GAS	---	UGG
⊙	UNDERGROUND WATER	---	UGW
⊙	TREELINE	---	OHE
⊙	OVERHEAD ELECTRIC	---	COMM
⊙	PROPERTY LINE	---	UGG
⊙	MAJOR CONTOUR	---	UGW
⊙	MINDR CONTOUR	---	OHE
		---	430
		---	429
		---	COMM
		---	T
		---	G
			UNDERGROUND NATURAL GAS SERVICE
			GRAVEL PAVEMENT
			CONCRETE PAVEMENT

SCREENING REQUIREMENTS

A TYPE "A" BUFFER IS REQUIRED AROUND ALL SIDES OF THE COMPOUND. PER SECTION 15-307, TYPE "A" BUFFERS ARE TO PROVIDE AN OPAQUE SCREEN A MINIMUM OF 6' HIGH WITH INTERMITTENT VISUAL OBSTRUCTIONS TO A HEIGHT OF 20' MINIMUM. EXISTING VEGETATION WILL PROVIDE A MAJORITY OF THE SCREENING AROUND THE PERIMETER OF THE FENCE. TO SUPPLEMENT AREAS CONTAINING THE DRIVEWAY AND UNDERGROUND UTILITIES WHERE CLEARING HAS TAKEN PLACE AND NEW VEGETATION CANNOT BE INSTALLED, A SCREEN OF EVERGREEN SHRUBS AND EVERGREEN TREES HAS BEEN PROPOSED.

PER LUO SECTION 15-319, A 30% TREE CANOPY IS REQUIRED TO REMAIN POST-DEVELOPMENT. THE PROPOSED TREE CLEARING IS MINIMAL AND SIGNIFICANT TREE COVERAGE WILL REMAIN ALONG THE SOUTH PROPERTY LINE, AT THE SOUTHEAST CORNER, ALONG THE EAST PROPERTY LINE AND LANDSCAPING ALONG DAVE DR., FIDELITY DR., AND ALONG INTERNAL DRIVEWAYS OF THE CEMETERY.

AN AERIAL VIEW OF THE PROPERTY WAS UTILIZED TO ESTIMATE THE EXISTING AND PROPOSED TREE COVERAGE AREAS. BASED ON THOSE CALCULATIONS, THE EXISTING TREE CANOPY COVERS APPROXIMATELY 3.9 ACRES OR 45% OF THE PROPERTY. AFTER THE PROPOSED DEVELOPMENT, IT IS ESTIMATED THAT THE TREE COVERAGE WILL BE REDUCED TO 3.7 ACRES OR 42%.

PLANTING LIST (TREES)

BOTANICAL/COMMON NAME	TYPE	QUANTITY	SYMBOL	SIZE AT PLANTING	ROOT TYPE	LOCATION
PRUNUS CAROLINIANA/ CHERRY LAUREL	SMALL EVERGREEN TREE	2		6' HT.	B & B	ENCLOSURE SCREENING
MYRICA CERIFERA/ WAX MYRTLE	EVERGREEN SHRUB	63		3' HT.	CONTAINER	ENCLOSURE SCREENING

- GENERAL SEEDING SCHEDULE**
- LIME, SEED AND FERTILIZER SHALL BE APPLIED WITH NECESSARY EQUIPMENT TO GIVE UNIFORM DISTRIBUTION OF THESE MATERIALS. THE KINDS OF MATERIALS TO BE APPLIED PER ACRE:

TEMPORARY SEEDING	DATE	TYPE	PLANTING RATE
	JAN. 1 - MAY 1	RYE (GRAIN) 120 LBS./ACRE KOBE LESPEDEZA * 50 LBS./ACRE	
	MAY 1 - AUG. 15	GERMAN MILLET ** 40 LBS./ACRE	
	AUG. 15 - DEC. 30	RYE (GRAIN) 120 LBS./ACRE	
PERMANENT SEEDING	DATE	TYPE	PLANTING RATE
	AUG. 20 - OCT. 25	TALL FESCUE	200 LBS./ACRE
	FEB. 1 - APR. 15	KOBE LESPEDEZA	20 LBS./ACRE
		SERICEA LESPEDEZA	60 LBS./ACRE

* OMIT KOBE LESPEDEZA WHEN DURATION OF TEMPORARY COVER IS NOT TO EXTEND BEYOND JUNE.
** A SMALL-STEMMED SUDANGRASS MAY BE SUBSTITUTED AT A RATE OF 50 LBS./ACRE.
*** QUANTITY OF FERTILIZER AND LIME SHALL BE CONFIRMED BY SOILS TEST.
 - SEEDED AREA SHALL BE CULTIPACKED TO FIRM SEEDBED AND COVER SEED.
 - GRAIN STRAW SHALL BE APPLIED OVER SEEDED AREAS AS A MULCH WITHIN 24 HOURS OF THE INITIAL SEEDING OPERATION. NO BARE GROUND SHALL BE VISIBLE WHEN RIDING BY A MULCHED AREA IF PROPER APPLICATION IS ACHIEVED. THICK CLUMPS OF STRAW ARE NOT PERMISSIBLE AS A UNIFORM COVERAGE IS EXPECTED.
 - DITCH TREATMENT SHALL BE USED IN AREAS WHERE STEEP GRADES COULD CAUSE DITCH EROSION. USE OF EXCELSIOR MATTING OR FIBERGLASS/SYNTHETIC ROVING IS ACCEPTABLE. DITCH TREATMENT SHALL BE INSTALLED BEFORE MULCHING OPERATION.
 - MULCHED AREA SHALL BE TACKED WITH A POLYMER BASED TACKIFIER. APPLY POLYMER PER MANUFACTURING RECOMMENDATIONS SPECIFIC TO EACH AREA OF APPLICATION (I.E. STEEP SLOPES, FLAT AREAS, ETC.). REAPPLY POLYMER AS NECESSARY TO PREVENT EROSION DURING VEGETATION ESTABLISHMENT.
 - PROVIDE TEMPORARY SEEDING WITHIN SEVENTY-TWO (72) HOURS AFTER CLEARING AND GRUBBING OPERATION IF THE AREA IS TO REMAIN UNDISTURBED FOR MORE THAN FOURTEEN (14) WORKING DAYS. PROVIDE TEMPORARY SEEDING WITHIN SEVENTY-TWO (72) HOURS OF ESTABLISHING FINAL GRADES. PROVIDE PERMANENT SEEDING WITHIN FOURTEEN (14) WORKING DAYS OF ESTABLISHING FINAL GRADES. SLOPES SHALL BE SEEDED WITHIN FOURTEEN (14) CALENDAR DAYS.
 - CONTRACTOR SHALL WATER SEEDED AREAS AS NECESSARY TO ESTABLISH VEGETATION.
 - CONTRACTOR SHALL WARRANT VEGETATION GROWTH FOR ONE YEAR.

811 Know what's below. Call before you dig.

PERMANENT SEEDING TO TOWN OF CARRBORO STANDARDS

MULCH TO TOWN OF CARRBORO STANDARDS

ZONING & SUP DRAWINGS NOT FOR CONSTRUCTION

FULL SCALE 1"=10'-0"

10 0 10 20 FT

HALF SCALE 1"=20'-0"

Dewberry

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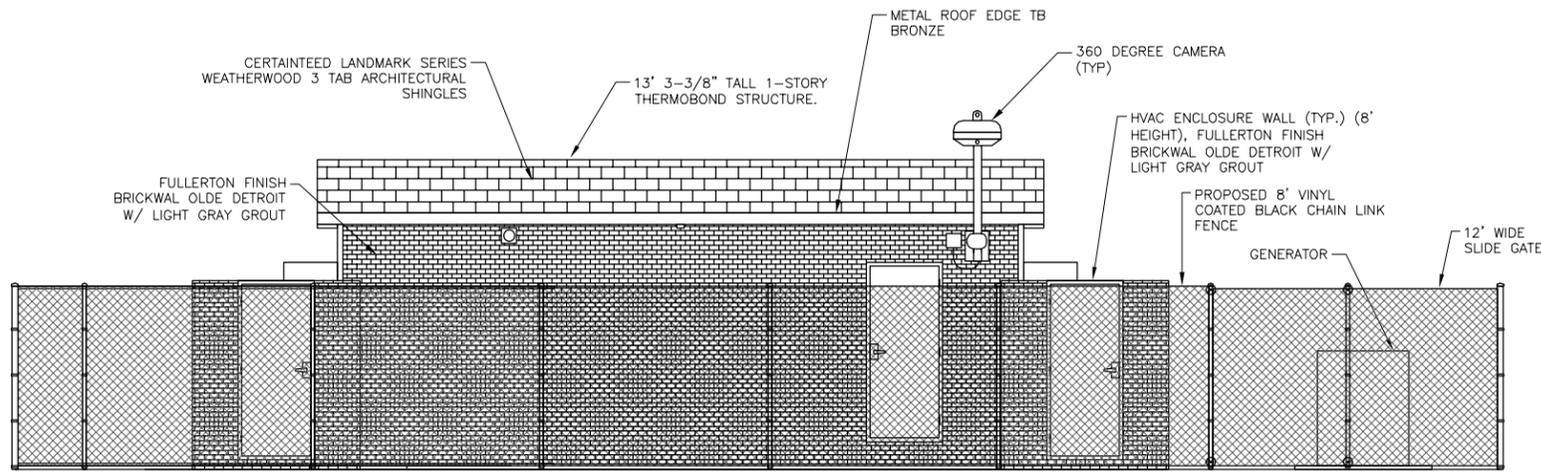


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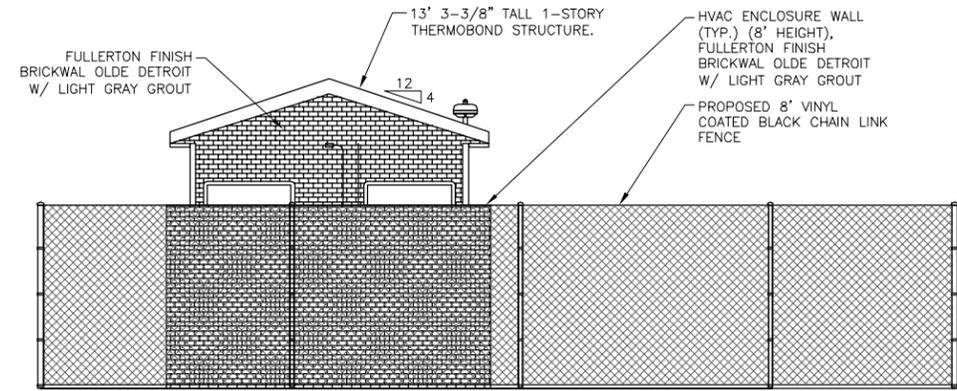
LANDSCAPE PLAN

DRAWING NO.	SHEET NO.	REV
25927-210	H0130-00000-ZN-70001	06
		2

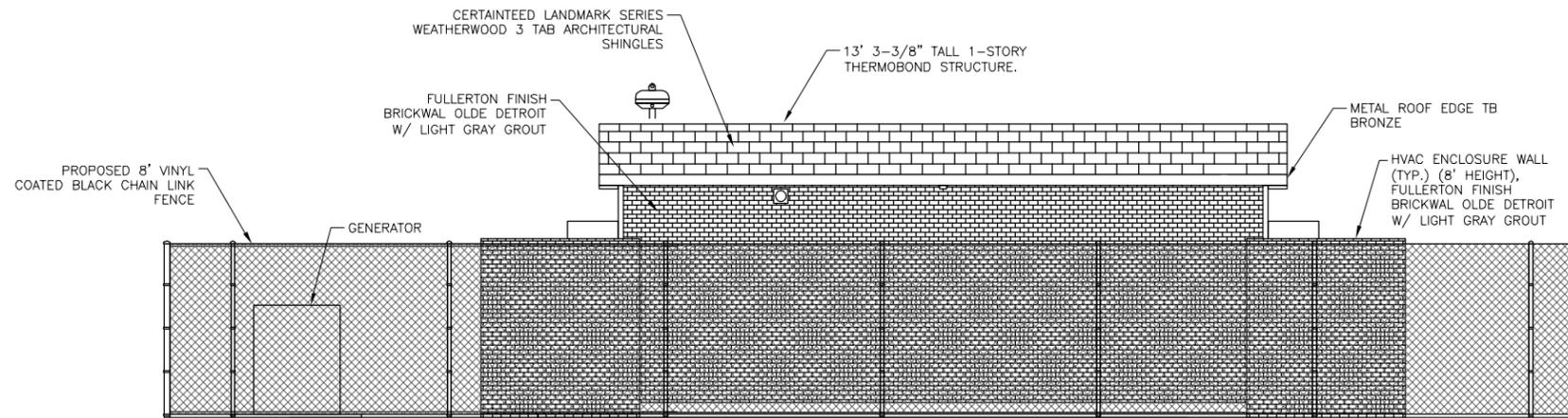
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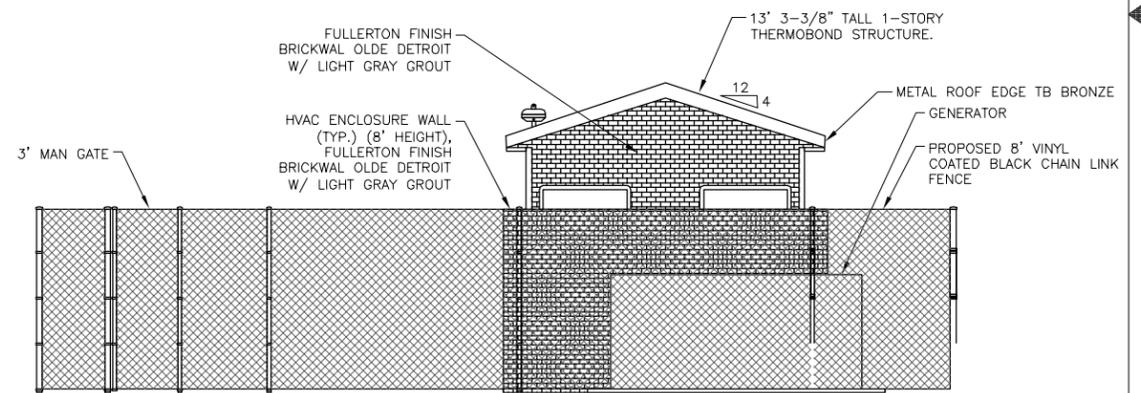
ELEVATION VIEW FROM EAST



ELEVATION VIEW FROM SOUTH



ELEVATION VIEW FROM WEST



ELEVATION VIEW FROM NORTH

AREA OF FACADE WALLS:	1310 SF
AREA OF WINDOWS AND DOORS:	80 SF
TOTAL FACADE WALL AREA:	1390 SF
AREA OF PREDOMINANT FACADE FEATURE:	100%
AREA OF NON-DOMINANT FACADE FEATURE:	0%

NOTES:

1. EXTERIOR LIGHT TO BE WPLED10 LED 10W - DARK SKY APPROVED, PER THERMOBOND SHELTER DRAWINGS. THERMOBOND SHELTER DESIGN, DRAWINGS, AND SPECS BY OTHERS.



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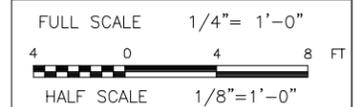
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**Fiber Project
 COMPOUND ELEVATION**

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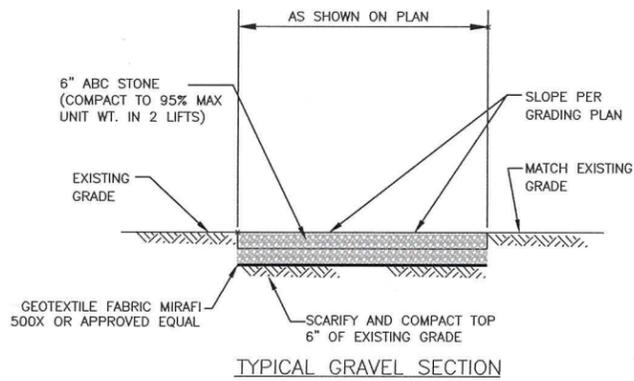
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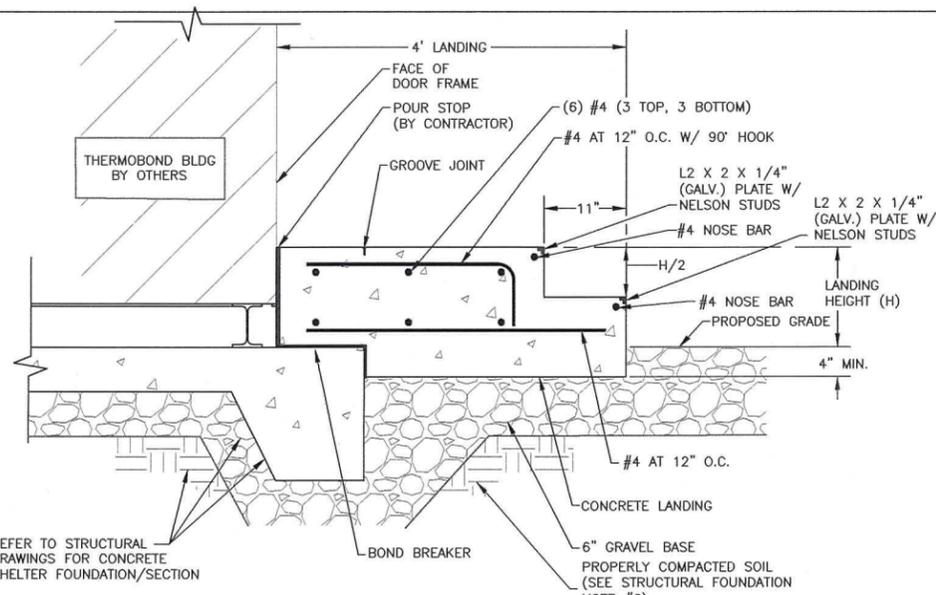
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TYPICAL GRAVEL SECTION

DETAIL 1
NTS 08



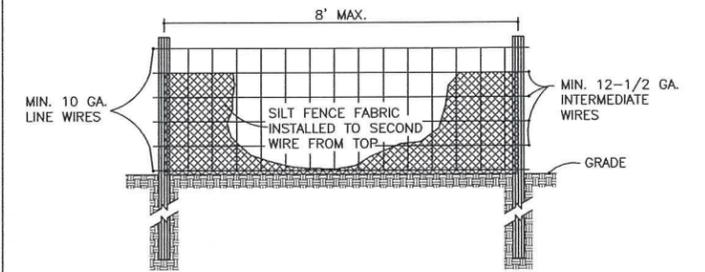
REFER TO STRUCTURAL DRAWINGS FOR CONCRETE SHELTER FOUNDATION/SECTION

NOTES:

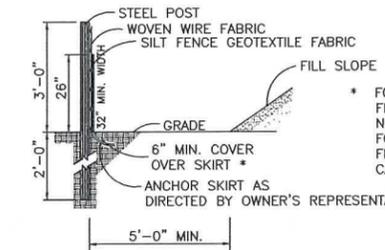
1. CONCRETE LANDING SHALL HAVE SAME CONCRETE COMPRESSIVE STRENGTH AS FIBER HUT PAD (4,500 PSI, 28 DAYS CONCRETE WITH REINFORCEMENT) OVER 6" GRAVEL BASE WITH COMPACTED SUBGRADE AS SHOWN ABOVE.
2. CONCRETE LANDING SHALL BE PLACED A MINIMUM OF 4" BELOW GRADE.
3. CONCRETE LANDING SHALL BE 3' WIDE BY 4' LONG. REFER TO SITE PLAN FOR ADDITIONAL DIMENSIONS/INFORMATION.
4. CONTRACTOR SHALL LINE UP GROOVE JOINT WITH THE EDGE OF THE HUT FOUNDATION SLAB. BRUSH FINISH LANDING.
5. THE LANDING ELEVATION SHALL BE 1/4 INCHES BELOW THE FINISHED FLOOR ELEVATION OF THE HUT.

CONCRETE LANDING DETAIL

DETAIL 2
NTS 08



FRONT VIEW



SIDE VIEW

GENERAL NOTES:

1. SILT FENCE SHALL BE INSTALLED A MINIMUM OF 5' OUTSIDE TOE OF EARTHILL EMBANKMENTS. MAY ALSO BE INSTALLED AROUND ALL STORM DRAIN INLETS, & MANHOLES AS DIRECTED.
2. WIRE SHALL BE A MINIMUM OF 36" IN WIDTH AND SHALL HAVE A MAXIMUM MESH SPACING OF 6".
3. FILTER FABRIC SHALL BE A MINIMUM OF 36" IN WIDTH AND SHALL BE FASTENED SECURELY TO THE WIRE.
4. STEEL POSTS SHALL BE 5'-0" IN HEIGHT AND BE OF SELF-FASTENER ANGLE STEEL TYPE.
5. USE SILT FENCE ONLY WHEN DRAINAGE AREA DOES NOT EXCEED 1/4 ACRE AND NEVER IN AREAS OF CONCENTRATED FLOW.
6. END OF SILT FENCE NEEDS TO BE TURNED UPHILL.

THE FILTER FABRIC SHALL MEET THE FOLLOWING REQUIREMENTS:
 A) EFFECTIVE OPEN SIZE IS NOT LARGER THAN U.S. STANDARD SIEVE NO.30
 B) GRAB STRENGTH 90-120 LB

MAINTENANCE REQUIREMENTS:

1. INSPECT SILT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
2. REPLACE SILT FENCE IMMEDIATELY IF IT COLLAPSES, TEARS, DECOMPOSES, OR BECOMES INEFFECTIVE.
3. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN EVENT AND TO REDUCE PRESSURE ON THE FENCE.
4. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING AREA HAS BEEN PROPERLY STABILIZED.

TYPICAL SILT FENCE DETAIL (TEMPORARY)

DETAIL 3
NTS 08

Get Away Vault - XL
 Description: BULK 36" x 76" x 42" HDPE body and 2 piece SHIELD Polymer Cover w/ bolt down locking system
 CPN: GSXL
 GPN: 07108438

FEATURES:

- BULK vault body: HDPE structural foam (plastic) body w/ embedded, factory installed metal racking
- Body- HDPE w/ Open floor
- Cover- 2 piece Polymer Cover w/ Bolt down locking system
- 2 - 3/8" - 16 UNC bolt access holes per half
- 1 - 3/4" x 3" Lifting Slot per half
- 2 - Blank Logo Pucks - 1 per half
- 1 galvanized steel support beam
- Non-skid surface: SHIELD Tread
- Load Rating: ANSI/SCTE 77-2010 Tier 15

WEIGHT & SHIPPING:

- Cover Weight: 79 lbs (per half)
- Assembly Weight: 455 lbs
- Loaded Pallet Weight: 455 lbs
- Per Pallet #: 1
- Pallet Dimensions: 42" x 84" x 5"

LOAD RATINGS:

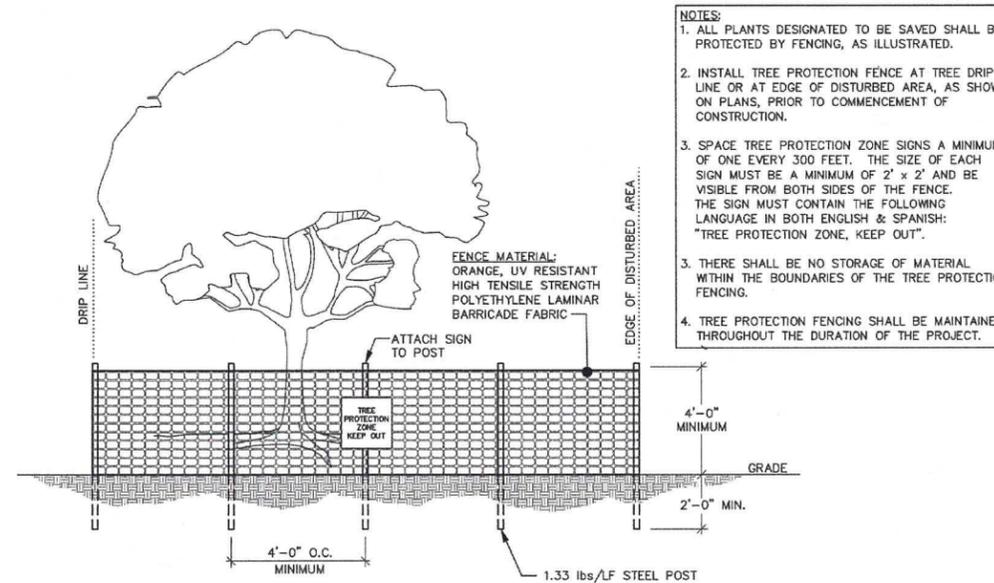
- ANSI/SCTE 77-2010 Tier 15
- See attached Color Coded Placement Guide
- Color Type: Orange or Purple

Inside Dimensions		
Length	Width	Depth
74.375	34.75	39"

CHANNELL

TYPICAL VAULT DETAIL

DETAIL 4
NTS 08



TREE PROTECTION FENCE

DETAIL 5
NTS 08



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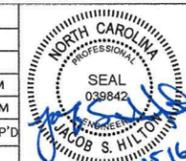
BECHTEL ASSOCIATES PROFESSIONAL CORPORATION
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FIBER HUT ID #: RDU130
 145 FIDELITY ST.
 CARRBORO, NC 27510

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NO.	DATE	REVISIONS	BY	CHK	SUPV	APP'D
1	01-25-16	RESPONSE TO TOWN COMMENTS	CPR	LWM	LWM	LWM
0	08-28-15	ZONING SUBMITTAL	JJB	LWM	LWM	LWM

SCALE: AS SHOWN DESIGNED BY: JJB DRAWN BY: JJB

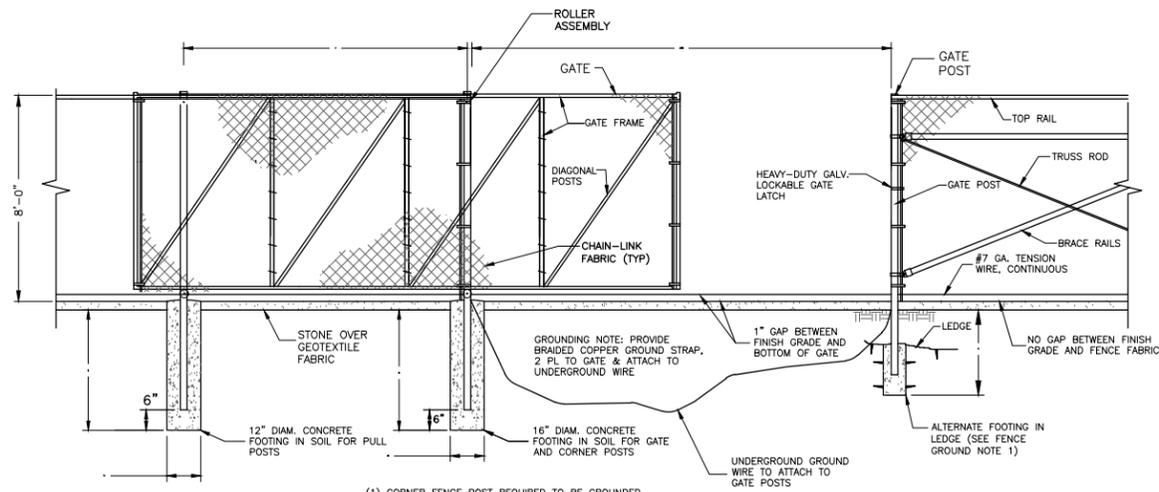


ZONING & SUP DRAWINGS
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Fiber Project

SITE DETAILS

DRAWING NO.	SHEET NO.	REV
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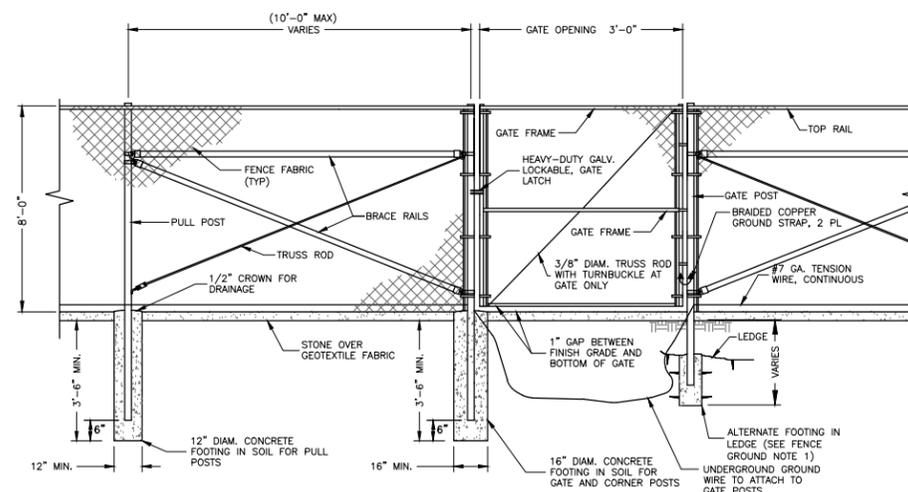


- (1) CORNER FENCE POST REQUIRED TO BE GROUNDED
- (2) GATE TO SLIDE ON INSIDE OF COMPOUND.

TYPICAL SLIDING GATE DETAIL

DETAIL 1
NTS 09

NOTE: ALL FENCE AND GATE MATERIALS, INCLUDING CHAIN LINK FABRIC, POSTS, ETC. SHALL BE BLACK VINYL PVC COATED.



- (1) CORNER FENCE POST REQUIRED TO BE GROUNDED
- (2) GATES SHALL SWING TO AN OPEN POSITION AT LEAST 90 DEGREES OR GREATER.

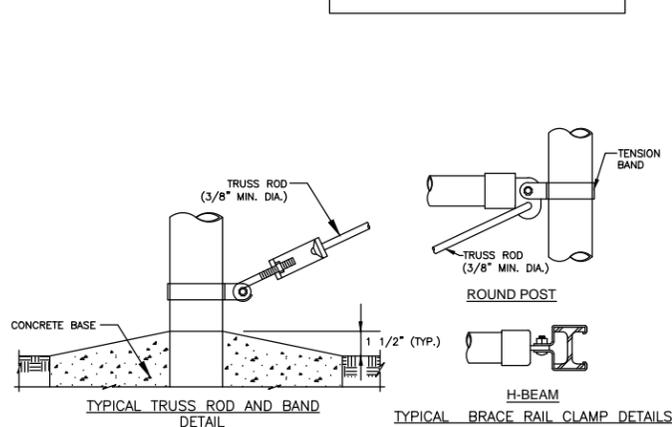
TYPICAL MAN GATE DETAIL

DETAIL 2
NTS 09

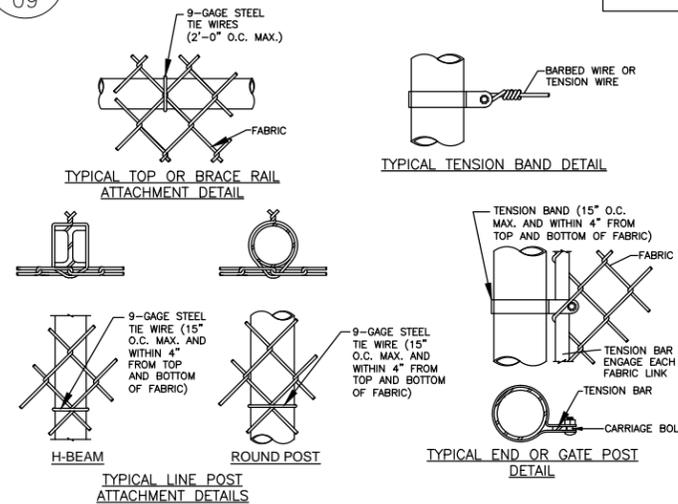
NOTE: ALL FENCE AND GATE MATERIALS, INCLUDING CHAIN LINK FABRIC, POSTS, ETC. SHALL BE BLACK VINYL PVC COATED.

NOTES:

1. FENCE FABRIC SHALL BE 2 INCH SQUARE MESH WITH MINIMUM WIRE THICKNESS OF 9 GAUGE (WITHOUT COATING) STEEL WIRE.
2. POSTS SHALL BE SCHEDULE 40 (MIN.) STEEL POSTS. FENCE POSTS, BRACING, AND OTHER STRUCTURAL MEMBERS SHALL BE PLACED ON SITE SIDE OF THE FABRIC.
3. FENCE FABRIC SHALL BE SECURELY FASTENED WITH TENSION WIRES WITH 9 GAUGE GALVANIZED TIE WIRES INCORPORATING AT LEAST A 540 DEGREE TIGHTENED LOOP.
4. CONTRACTOR SHALL PROVIDE NECESSARY GRADE SUCH THAT FENCE FABRIC EXTENDS WITHIN 2 INCHES OF FIRM GROUND. PROVIDE ANCHORING TO PREVENT THE FABRIC FROM BEING LIFTED MORE THAN 5 INCHES. FENCE FABRIC MAY ALSO BE BURIED 12 INCHES.
5. FENCE FABRIC SHALL BE INTERWOVEN OR CLIPPED ALONG THE TOP AND THE BOTTOM ROW OF FABRIC DIAMONDS AND HAVE TWISTED AND BARBED SELVAGE AT THE BOTTOM AND THE TOP.
6. POSTS SHALL BE THE SAME MATERIAL AS THE FENCING WIRE.
7. POSTS SHALL BE VERTICAL WITHIN PLUS OR MINUS 2 DEGREES IN TWO PLANES.
8. POSTS SHALL BE BURIED AND ENCASED IN CONCRETE FOOTINGS. FOOTINGS SHALL BE MINIMUM 3'-6" IN DEPTH.
9. POST SEPARATION SHALL BE A MAXIMUM OF 10 FEET.
10. EACH GATE, TERMINAL, AND END POST SHALL BE BRACED WITH TRUSS RODS INSTALLED DIAGONALLY FROM THE NEAR GROUND LEVEL OF THE GATE, TERMINAL OR END POST TO THE TOP OF THE ADJACENT LINE POST, THIS CONNECTION POINT SHALL BE NO HIGHER THAN 6 INCHES DOWN FROM THE TOP OF THE FABRIC. THE ANGLE BETWEEN THE TRUSS ROD AND THE GROUND SHALL BE NO MORE THAN 50 DEGREES. STEEL TRUSS RODS SHALL BE NOT LESS THAN 3/8 INCH NOMINAL DIAMETER WITH TURNBUCKLES FOR TENSIONING.
11. ALL FASTENINGS AND HINGE HARDWARE SHALL BE SECURED IN PLACE BY PEENING OR WELDING.
12. ASTM STANDARDS SHALL BE FOLLOWED FOR ALL MATERIALS, INSTALLATIONS, AND REPAIRS OF STANDARD FENCING FABRIC.
13. ALL FENCING ACCESSORIES USED IN THE ERECTION OF CHAIN-LINK FENCES SHALL MEET ASTM SPECIFICATIONS.
14. ALL FITTINGS SHALL BE ELECTROLYTICALLY COMPATIBLE WITH CONNECTING FITTINGS, COMPONENTS, AND FENCE FABRIC TO INHIBIT CORROSION.
15. WHERE THE BOTTOM OF FENCE FABRIC CANNOT BE 2" OR LESS FROM THE GROUND SURFACE, SUCH AS WHERE FENCING CROSSES DRAINAGE DITCHES OR SWALES, THE CONTRACTOR SHALL PROVIDE ADDITIONAL FENCING ACROSS THE DITCH OR SWALE. FENCING ADDED BELOW SHALL BE ATTACHED A MINIMUM OF EVERY 2" ALONG THE INTERSECTION OF THE TWO FENCE SECTIONS AND ATTACHED TO A SERIES OF GROUND STAKES SECURED TO THE SIDES AND BOTTOM OF THE DITCH.
16. CONTRACTOR SHALL GRADE ALONG FENCE LINE TO ALLOW POSITIVE DRAINAGE AROUND COMPOUND TO AVOID PONDING.



TYPICAL FASTENING DETAILS

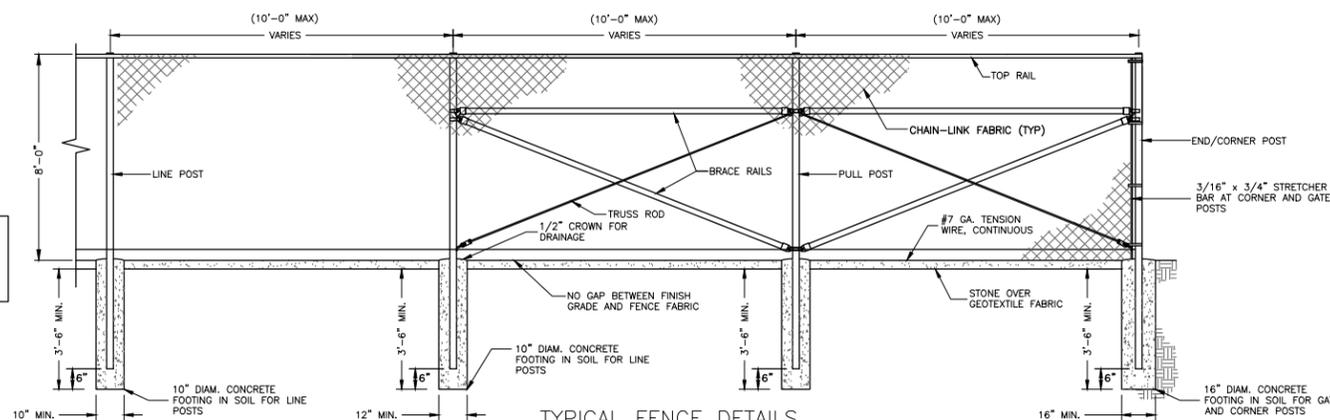


TYPICAL TOP OR BRACE RAIL ATTACHMENT DETAIL

TYPICAL TENSION BAND DETAIL

TYPICAL END OR GATE POST DETAIL

TYPICAL LINE POST ATTACHMENT DETAILS



TYPICAL FENCE DETAILS

DETAIL 3
NTS 09

NOTE: ALL FENCE AND GATE MATERIALS, INCLUDING CHAIN LINK FABRIC, POSTS, ETC. SHALL BE BLACK VINYL PVC COATED.

STEEL POST SCHEDULE	
USE AND SECTION	MINIMUM OUTSIDE DIMENSIONS (NOMINAL)
	FABRIC WIDTH 84" TO 96"
CORNER, END & PULL POSTS	2.875" O.D.
TUBULAR - ROUND	
LINE POSTS	2.375" O.D.
TUBULAR - ROUND	
TOP, BOTTOM & BRACE RAILS	1.66" O.D.
TUBULAR - ROUND	
GATE POSTS (MAN/SWING GATES)	2.875" O.D.
TUBULAR - ROUND	
GATE POSTS (SLIDE GATES)	4.500" O.D.
TUBULAR - ROUND	

FENCE GROUNING NOTES:

1. ALTERNATE FOOTINGS FOR ALL FENCE POSTS IN LEDGE: IF LEDGE IS ENCOUNTERED AT GRADE, OR AT A DEPTH SHALLOWER THAN 3'-6", CORE DRILL AN 8" DIA HOLE 18" INTO THE LEDGE. CENTER POST IN THE HOLE AND FILL WITH CONCRETE OR GROUT. IF LEDGE IS BELOW FINISH GRADE, COAT BACKFILLED SECTION OF POST WITH COAL TAR, AND BACKFILL WITH WELL-DRAINING GRAVEL.
2. ATTACH EACH GATE WITH 1-1/2 PAIR OF NON-LIFT-OFF TYPE, MALLEABLE IRON OR FORGING, PIN-TYPE HINGES. ASSEMBLIES SHALL ALLOW FOR 90° MINIMUM OF GATE TRAVEL.

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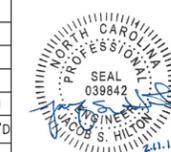


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