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Also admitted in Massachusetts

ORIGINAL

October 10, 2012

RECEIVED  
OCT 10 2012

*Via Hand Delivery*

Linda Roberts  
Executive Director  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

CONNECTICUT  
SITING COUNCIL

Re: **Docket No. 402 – Cellco Partnership d/b/a Verizon Wireless  
Certificate Of Environmental Compatibility And Public Need For The  
Construction, Maintenance And Operation Of A Wireless  
Telecommunications Facility at 16 Bell Road Extension, Cornwall,  
Connecticut – Revised Development and Management Plan**

Dear Ms. Roberts:

In response to your September 14, 2012 request for additional information regarding the above-referenced Development and Management (“D&M”) Plan, I am enclosing fifteen (15) copies of revised D&M Plans and written responses to your questions provided by Carlo F. Centore at Centek Engineering, Inc. You will note that the D&M Plans have been provided in full size format (24” x 36”). At this size the additional detail that you questioned is a bit more evident than it may appear in the smaller formatted plans.

Centek Engineering, Inc. is in the process of completing its full drainage analysis referenced in Mr. Centore’s letter (item no. 9). Fifteen (15) copies of that report will be delivered to the Council on or before Monday, October 15, 2012. Copies of the report will also be mailed to the parties and intervenors of record.



*Law Offices*

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11920412-v1



# Cellco Partnership

## d.b.a. *Verizon* wireless

# WIRELESS COMMUNICATIONS FACILITY DEVELOPMENT AND MANAGEMENT PLAN

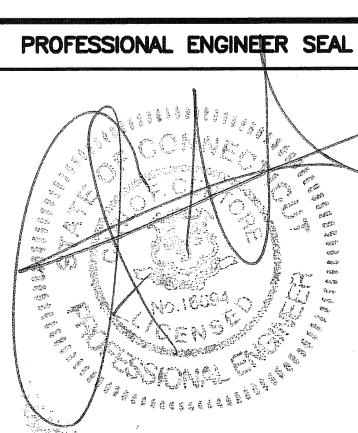
## 16 BELL ROAD EXTENSION

## CORNWALL, CT 06754

**NOT FOR CONSTRUCTION**

DESIGNED BY:	CFC
DRAWN BY:	TSP
CHK'D BY:	DMD

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
2	10/05/12	DMD	CFC	REVISED D&M - PER CSC INTERROGATORIES
1	08/31/12	DMD	CFC	ISSUED FOR D&M
0	08/17/12	DMD	CFC	ISSUED FOR D&M - CLIENT REVIEW



Cellco Partnership  
d.b.a. *Verizon* wireless

**CENTEK** engineering  
Centered on Solutions™  
(203) 488-0580  
(203) 488-8587 Fax  
63-2 North Branford Road  
Branford, CT 06405  
www.CentekEng.com

**Cellco Partnership d/b/a Verizon Wireless**  
WIRELESS COMMUNICATIONS FACILITY  
**CORNWALL, CT**  
16 BELL ROAD EXTENSION  
CORNWALL, CT 06754

DATE: 08/17/12  
SCALE: AS NOTED  
JOB NO. 08168

TITLE SHEET

**T-1**

Sheet No. 1 of 12

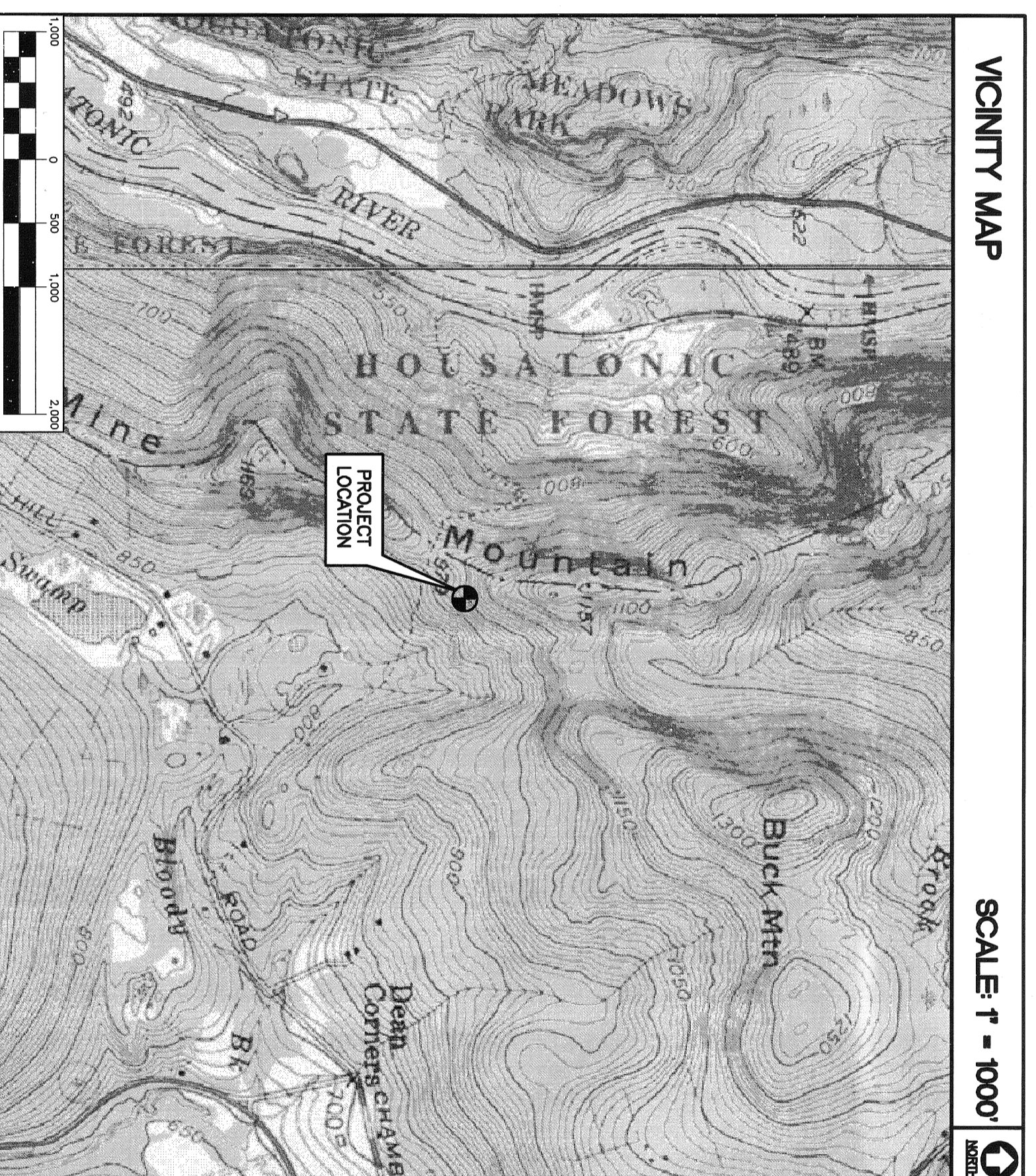
FROM:	TO:	
99 EAST RIVER DRIVE EAST HARTFORD, CONNECTICUT	16 BELL ROAD EXTENSION CORNWALL, CONNECTICUT	
1. Start out going Southeast toward E RIVER DR.		1.3 MI.
2. Turn Left to stay on E RIVER DR.		0.1 MI.
3. Turn Left onto US-44/CONNECTICUT BLVD		0.1 MI.
4. Take ramp Left for I-84 WEST		1.3 MI.
5. At Exit 48, take ramp Right for SPRING ST toward ASTYUM ST		0.1 MI.
6. Turn Right onto GARDEN ST		0.6 MI.
7. Site access is on right at golf cart crossing.		12.6 MI.
8. Turn Left onto US-44/ALBANY AVE		0.1 MI.
9. Turn Left onto US-202 SOUTH		10.9 MI.
10. Bear Right onto SR-42/E ELM ST		11.9 MI.
11. Turn Right onto POPPE SWAMP RD		1.8 MI.
12. Turn Right onto BELL RD		1.2 MI.
13. Turn Right onto BELL RD		0.2 MI.
14. Turn Left onto BELL ROAD EXT		

### GENERAL NOTES

1. PROPOSED ANTENNA LOCATIONS AND HEIGHTS PROVIDED BY CELCO PARTNERSHIP.

### SITE INFORMATION

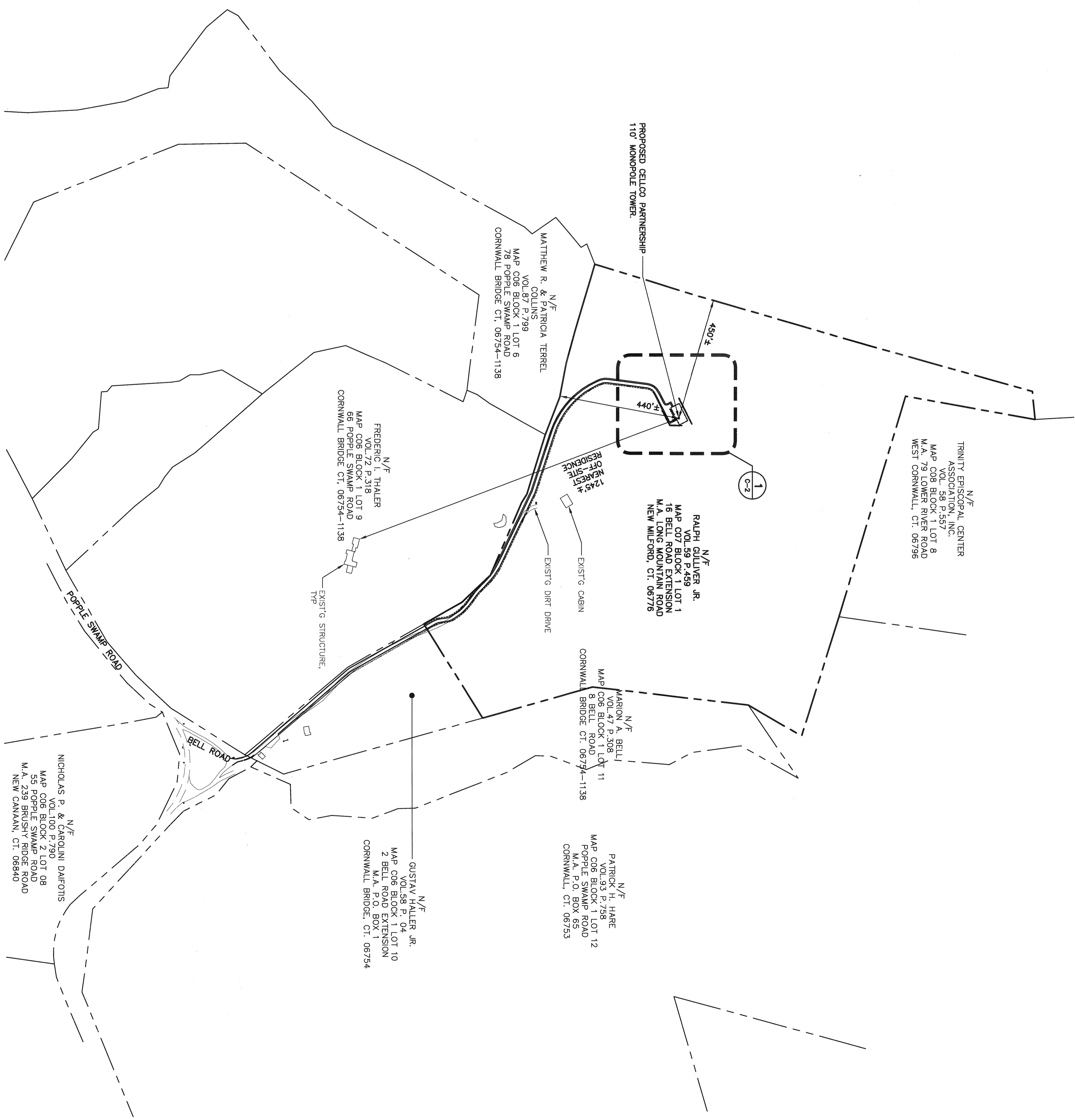
- THE SCOPE OF WORK SHALL INCLUDE:  
1. THE CONSTRUCTION OF A 34'x70' FENCED WIRELESS COMMUNICATIONS COMPOUND WITHIN A 100'x100' LEASE AREA.
- A TOTAL OF FIFTEEN (15) DIRECTIONAL PANEL ANTENNAS ARE PROPOSED TO BE MOUNTED AT A CENTERLINE ELEVATION OF 110'-0"± AGL ON A 110' PROPOSED STEEL MONOPOLE TOWER LOCATED WITHIN THE PROPOSED COMPOUND.
- A 12'x30' PREFABRICATED EQUIPMENT SHELTER (WITH SHELTER HOUSED DIESEL-POWERED EMERGENCY POWER GENERATOR) IS PROPOSED TO BE LOCATED WITHIN THE FENCED COMPOUND. TOTAL ACCESS DRIVE LENGTH IS 2,220'±. APPROXIMATELY 1,675' OF EXISTING ACCESS DRIVE AND DIRT PATH WILL BE UTILIZED FOR SITE ACCESS.
- POWER AND TELCO UTILITIES SHALL BE ROUTED UNDERGROUND FROM EXISTING RESPECTIVE DEMARCS TO THE PROPOSED UTILITY BACKBOARD LOCATED TO THE PROPOSED NOMINAL 12'x30' WIRELESS EQUIPMENT SHELTER LOCATED WITHIN THE COMPOUND. FINAL DEMARC LOCATION AND UTILITY ROUTING TO PROPOSED BACKBOARD WILL BE VERIFIED/DETERMINED BY LOCAL UTILITY COMPANIES.
- THE PROPOSED WIRELESS FACILITY INSTALLATION WILL BE DESIGNED IN ACCORDANCE WITH THE 2003 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2008 CONNECTICUT SUPPLEMENT.
- THERE WILL NOT BE ANY LIGHTING UNLESS REQUIRED BY THE FCC OR THE FAA.
- THERE WILL NOT BE ANY SIGNS OR ADVERTISING ON THE ANTENNAS OR EQUIPMENT.
- FOR ADDITIONAL NOTES AND DETAILS REFER TO THE ACCOMPANYING DRAWINGS.



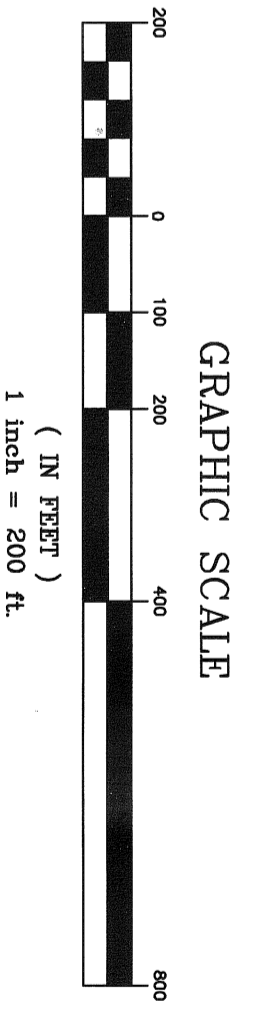
PROJECT SUMMARY	
SITE NAME:	CORNWALL, CT
SITE ADDRESS:	16 BELL ROAD EXTENSION CORNWALL, CT 06754
PROPERTY OWNER:	RALPH GULLIVER JR. LONG MOUNTAIN ROAD NEW MILFORD, CT 06776
LESSEE/TENANT:	CELCO PARTNERSHIP d.b.a. VERIZON WIRELESS 99 EAST RIVER DRIVE EAST HARTFORD, CT 06108
CONTACT PERSON:	SANDY CARTER CELCO PARTNERSHIP (860) 803-9219
ENGINEER:	CENTEK ENGINEERING, INC. 63-2 NORTH BRANFORD ROAD BRANFORD, CT 06405
TOWER COORDINATES:	LATITUDE 41°-50'-44.815" LONGITUDE 73°-21'-51.476" GROUND ELEVATION: 999.8'± A.M.S.L. (PROPOSED) COORDINATES AND GROUND ELEVATION REFERENCED FROM FAA 2-C CERTIFICATION PREPARED BY MARTINEZ-COUCO & ASSOCIATES, LLC., DATED MAY 13, 2009, REVISED MARCH 29, 2010.

SHEET INDEX		
SHT. NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	2
C-1.0	SITE LOCATION PLAN / ABUTTERS MAP	2
C-1.1	PARTIAL SITE PLAN / GRADING PLAN	2
C-1.2	PARTIAL SITE PLAN AND DETAILS	2
C-1.3	SITE UTILITY PLANS AND DETAILS	2
C-2	COMPOUND PLAN AND ELEVATION	2
C-3.0	SLOPE & CHANNEL STABILIZATION NOTES & DETAILS	2
C-3.1	CHANNEL CONSTRUCTION NOTES & DETAILS	2
C-3.2	SITE CONSTRUCTION, SAFE CONTROL NOTES AND DETAILS	2
C-4	SITE DETAILS	2
C-5	MISC. SITE DETAILS AND SHELTER ELEVATIONS	2
C-6	SHELTER FOUNDATION PLAN, DETAILS AND NOTES	2





**1 SITE LOCATION PLAN/ABUTTERS MAP**  
 C-1.0 SCALE: 1" = 200'

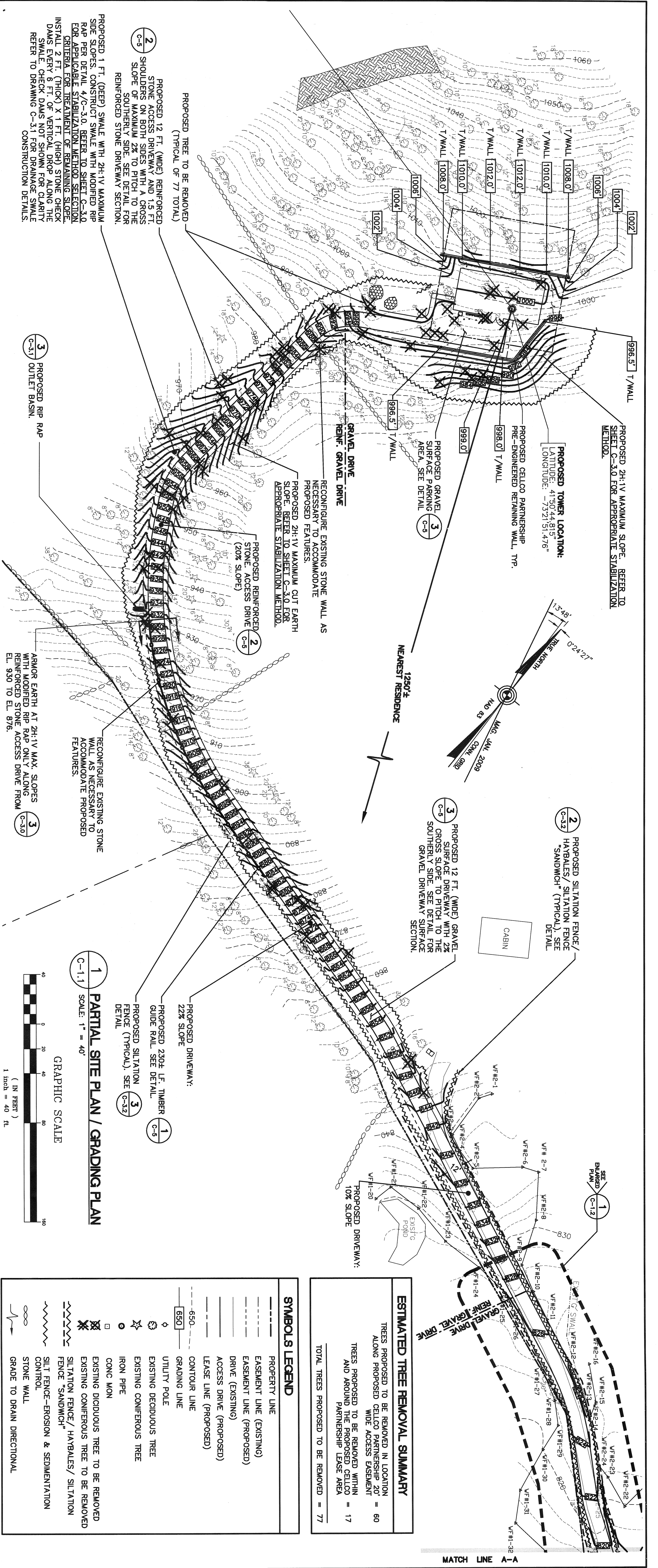


**SYMBOLS LEGEND**

	PROPERTY LINE
	EASEMENT LINE (EXISTING)
	EASEMENT LINE (PROPOSED)
	ACCESS DRIVE (EXISTING)
	ACCESS DRIVE (PROPOSED)
	LEASE LINE (PROPOSED)
	WETLANDS BOUNDARY

<p>DESIGNED BY: CFC          DRAWN BY: TSP          CHECK BY: DMD</p>	<p>DATE: 08/17/12          SCALE: AS NOTED          JOB NO.: 08168</p>	<p><b>Cellco Partnership d/b/a Verizon Wireless</b></p> <p>WIRELESS COMMUNICATIONS FACILITY  <b>CORNWALL, CT</b></p> <p>16 BELL ROAD EXTENSION          CORNWALL, CT 06754</p>	<p><b>CEN TEK</b> engineering          Centered on Solutions™</p> <p>(203) 488-0580          (203) 488-8587 Fax          63-2 North Branford Road          Branford, CT 06405          www.CentekEng.com</p>	<p>PROFESSIONAL ENGINEER SEAL</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>DRAWN BY</th> <th>CHK'D BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>10/05/12</td> <td>DMD</td> <td>CFC</td> <td>REVISED D&amp;M - PER CSC INTERROGATORIES</td> </tr> <tr> <td>1</td> <td>08/31/12</td> <td>DMD</td> <td>CFC</td> <td>ISSUED FOR D&amp;M</td> </tr> <tr> <td>0</td> <td>08/17/12</td> <td>DMD</td> <td>CFC</td> <td>ISSUED FOR D&amp;M - CLIENT REVIEW</td> </tr> </tbody> </table>	REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION	2	10/05/12	DMD	CFC	REVISED D&M - PER CSC INTERROGATORIES	1	08/31/12	DMD	CFC	ISSUED FOR D&M	0	08/17/12	DMD	CFC	ISSUED FOR D&M - CLIENT REVIEW
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0	08/17/12	DMD	CFC	ISSUED FOR D&M - CLIENT REVIEW																					





SYMBOLS LEGEND	
---	PROPERTY LINE
---	EASEMENT LINE (EXISTING)
---	EASEMENT LINE (PROPOSED)
---	DRIVE (EXISTING)
---	ACCESS DRIVE (PROPOSED)
---	LEASE LINE (PROPOSED)
---	CONTOUR LINE
---	GRADING LINE
○	UTILITY POLE
○	EXISTING DECIDUOUS TREE
○	EXISTING CONIFEROUS TREE
○	IRON PIPE
○	CONC MON
○	EXISTING DIDOUOUS TREE TO BE REMOVED
○	EXISTING CONIFEROUS TREE TO BE REMOVED
○	SILT FENCE-EROSION & SEDIMENTATION CONTROL
○	STONE WALL
○	GRADE TO DRAIN DIRECTIONAL

ESTIMATED TREE REMOVAL SUMMARY	
TREES PROPOSED TO BE REMOVED IN LOCATION ALONG PROPOSED CELCO PARTNERSHIP 20' WIDE ACCESS EASEMENT	= 60
TREES PROPOSED TO BE REMOVED WITHIN 100' BUFFER OF PROPOSED DRIVEWAY AND PARTNERSHIP LEASE AREA	= 17
TOTAL TREES PROPOSED TO BE REMOVED =	77

PROPOSED 1 FT. (DEEP) SWALE WITH 24-1V MAXIMUM SLOPE. CONSTRUCT SWALE WITH MODIFIED RIP RAP PER DETAIL C-31. REFER TO SHEET C-30 FOR APPLICABLE STABILIZATION METHOD SELECTION CRITERIA FOR TREATMENT OF REMAINING SLOPE. INSTALL 2 FT. (THICK) X 1 FT. (HIGH) STONE CHECK DAMS EVERY 6 FT. OF VERTICAL DROP ALONG THE SWALE. CHECK DAMS NOT SHOWN FOR CLARITY REFER TO DRAWING C-31 FOR DRAINAGE SWALE CONSTRUCTION DETAILS.

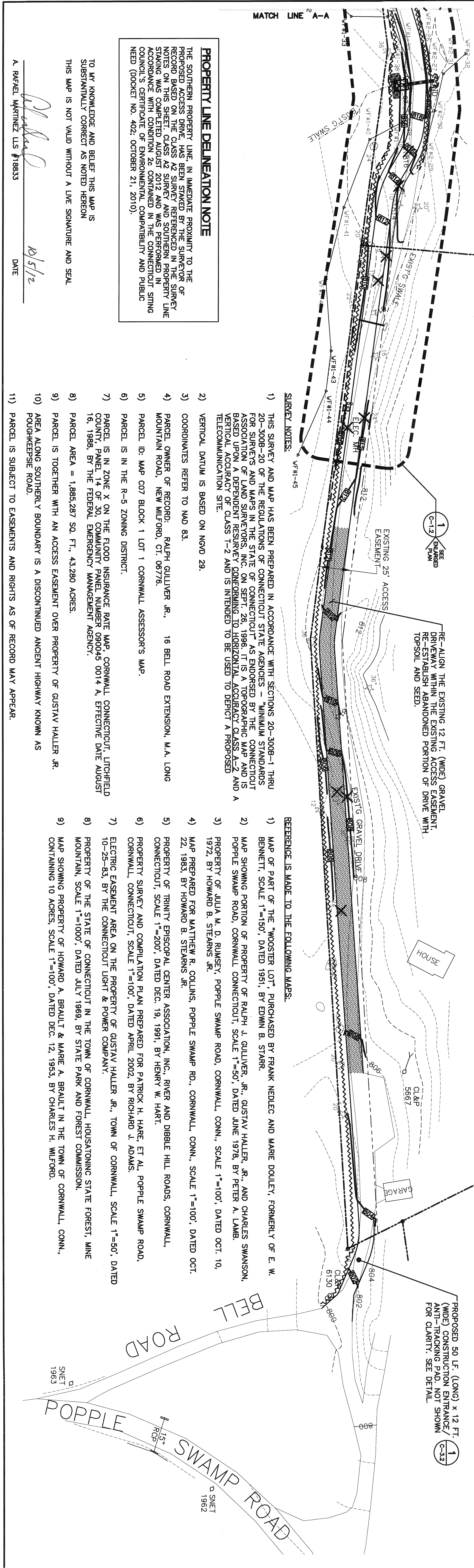
PROPOSED 12 FT. (WIDE) REINFORCED STONE ACCESS DRIVEWAY AND 1.5 FT SHOULDER ON BOTH SIDES WITH A CROSS SLOPE OF MAXIMUM 2% TO PITCH TO THE SOUTHERLY SIDE. SEE DETAIL FOR REINFORCED STONE DRIVEWAY SECTION.

PROPOSED 24-1V MAXIMUM CUT EARTH SLOPE. REFER TO SHEET C-30 FOR APPROPRIATE STABILIZATION METHOD.

RECONFIGURE EXISTING STONE WALL AS NECESSARY TO ACCOMMODATE PROPOSED FEATURES.

PROPOSED 2304 LF. TIMBER GUIDE RAIL. SEE DETAIL.

PROPOSED 50 LF. (LONG) X 12 FT. (WIDE) CONSTRUCTION ENTRANCE/ANTI-TRACKING PAD. NOT SHOWN FOR CLARITY. SEE DETAIL.



PROPOSED 1 FT. (DEEP) SWALE WITH 24-1V MAXIMUM SLOPE. CONSTRUCT SWALE WITH MODIFIED RIP RAP PER DETAIL C-31. REFER TO SHEET C-30 FOR APPLICABLE STABILIZATION METHOD SELECTION CRITERIA FOR TREATMENT OF REMAINING SLOPE. INSTALL 2 FT. (THICK) X 1 FT. (HIGH) STONE CHECK DAMS EVERY 6 FT. OF VERTICAL DROP ALONG THE SWALE. CHECK DAMS NOT SHOWN FOR CLARITY REFER TO DRAWING C-31 FOR DRAINAGE SWALE CONSTRUCTION DETAILS.

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PROPOSED 24-1V MAXIMUM CUT EARTH SLOPE. REFER TO SHEET C-30 FOR APPROPRIATE STABILIZATION METHOD.

RE-ALIGN THE EXISTING 12 FT. (WIDE) GRAVEL DRIVEWAY WITHIN THE EXISTING ACCESS EASEMENT. TOP-SOIL AND SEED.

PROPOSED 2304 LF. TIMBER GUIDE RAIL. SEE DETAIL.

PROPOSED 50 LF. (LONG) X 12 FT. (WIDE) CONSTRUCTION ENTRANCE/ANTI-TRACKING PAD. NOT SHOWN FOR CLARITY. SEE DETAIL.

**PROPERTY LINE DELINEATION NOTE**  
 THE SOUTHERN PROPERTY LINE, IN IMMEDIATE PROXIMITY TO THE PROPOSED ACCESS DRIVE, HAS BEEN STAKED BY THE SURVEYOR OF RECORD BASED ON THE CLASS A2 SURVEY REFERENCED IN THE SURVEY NOTES ON THIS SHEET. CLASS A2 SURVEY AND SOUTHERN PROPERTY LINE RECORDS ARE AVAILABLE AT THE REGISTERED PROFESSIONAL ENGINEER'S OFFICE, 16 BELL ROAD, CORNWALL, CONNECTICUT. THE CONVEYANCE AGREEMENT WITH CONITION 2.2 CONTAINED IN THE CONVEYANCE INSTRUMENT (BOOKER NO. 402, OCTOBER 21, 2010).

- SURVEY NOTES:**
- 1) THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-300B-1 THRU 20-300B-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES - MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT AS ENDORSED BY THE CONNECTICUT ASSEMBLY AND IN THE STATE OF CONNECTICUT AS ENACTED BY PUBLIC ACT 1989-16, 1989, BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.
  - 2) VERTICAL DATUM IS BASED ON NAVD 29.
  - 3) COORDINATES REFER TO MAD 83.
  - 4) PARCEL OWNER OF RECORD: RALPH GULLIVER JR., 16 BELL ROAD EXTENSION, M.A. LONG MOUNTAIN ROAD, NEW MILFORD, CT. 06776.
  - 5) PARCEL ID: MAP C07 BLOCK 1 LOT 1 CORNWALL ASSESSOR'S MAP.
  - 6) PARCEL IS IN THE R-5 ZONING DISTRICT.
  - 7) PARCEL IS IN ZONE X ON THE FLOOD INSURANCE RATE MAP, CORNWALL, CONNECTICUT, LITCHFIELD COUNTY, PANEL 14 OF 30, COMMUNITY MAP NUMBER 090045 0014 A, EFFECTIVE DATE AUGUST 16, 1989, BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.
  - 8) PARCEL AREA = 1,885,287 SQ. FT., 43,280 ACRES.
  - 9) PARCEL IS TOGETHER WITH AN ACCESS EASEMENT OVER PROPERTY OF GUSTAV HALLER JR. FOUJKEEPSIE ROAD.
  - 10) AREA ALONG SOUTHERLY BOUNDARY IS A DISCONTINUED ANCIENT HIGHWAY KNOWN AS FOUJKEEPSIE ROAD.
  - 11) PARCEL IS SUBJECT TO EASEMENTS AND RIGHTS AS OF RECORD MAY APPEAR.

- REFERENCE IS MADE TO THE FOLLOWING MAPS:**
- 1) MAP OF PART OF THE "WOOSTER LOT", PURCHASED BY FRANK NEDLEC AND MARIE DOULEY, FORMERLY OF E. W. BENNETT, SCALE 1"=150', DATED 1991, BY EDWIN B. STARK.
  - 2) MAP SHOWING PORTION OF PROPERTY OF RALPH J. GULLIVER, JR., GUSTAV HALLER, JR., AND CHARLES SWANSON, POPPLE SWAMP ROAD, CORNWALL, CONNECTICUT, SCALE 1"=50', DATED JUNE 1978, BY PETER A. LAMB.
  - 3) PROPERTY OF JULIA M. D. RUMSEY, POPPLE SWAMP ROAD, CORNWALL, CONN., SCALE 1"=100', DATED OCT. 10, 1972, BY HOWARD B. STEARNS JR.
  - 4) MAP PREPARED FOR MATTHEW R. COLLINS, POPPLE SWAMP RD., CORNWALL, CONN., SCALE 1"=100', DATED OCT. 22, 1983, BY HOWARD B. STEARNS JR.
  - 5) PROPERTY OF TRINITY EPISCOPAL CENTER ASSOCIATION, INC., RIVER AND DIBBLE HILL ROADS, CORNWALL, CONNECTICUT, SCALE 1"=200', DATED DEC. 19, 1991, BY HENRY W. HART.
  - 6) PROPERTY SURVEY AND COMPILATION PLAN PREPARED FOR PATRICK H. HASE, ET AL, POPPLE SWAMP ROAD, CORNWALL, CONNECTICUT, SCALE 1"=100', DATED APRIL 2002, BY RICHARD J. ADAMS.
  - 7) ELECTRIC EASEMENT AREA ON THE PROPERTY OF GUSTAV HALLER JR., TOWN OF CORNWALL, SCALE 1"=50', DATED 10-25-83, BY THE CONNECTICUT LIGHT & POWER COMPANY.
  - 8) PROPERTY OF THE STATE OF CONNECTICUT IN THE TOWN OF CORNWALL, HOUSATONING STATE FOREST, MINE MOUNTAIN, SCALE 1"=1000', DATED JULY 1969, BY STATE PARK AND FOREST COMMISSION.
  - 9) MAP SHOWING PROPERTY OF HOWARD A. BRAULT & MARIE A. BRAULT IN THE TOWN OF CORNWALL, CONN., CONTAINING 10 ACRES, SCALE 1"=100', DATED DEC. 12, 1953, BY CHARLES H. WILFORD.

TO MY KNOWLEDGE AND BELIEF THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON  
 THIS MAP IS NOT VALID WITHOUT A LIVE SIGNATURE AND SEAL

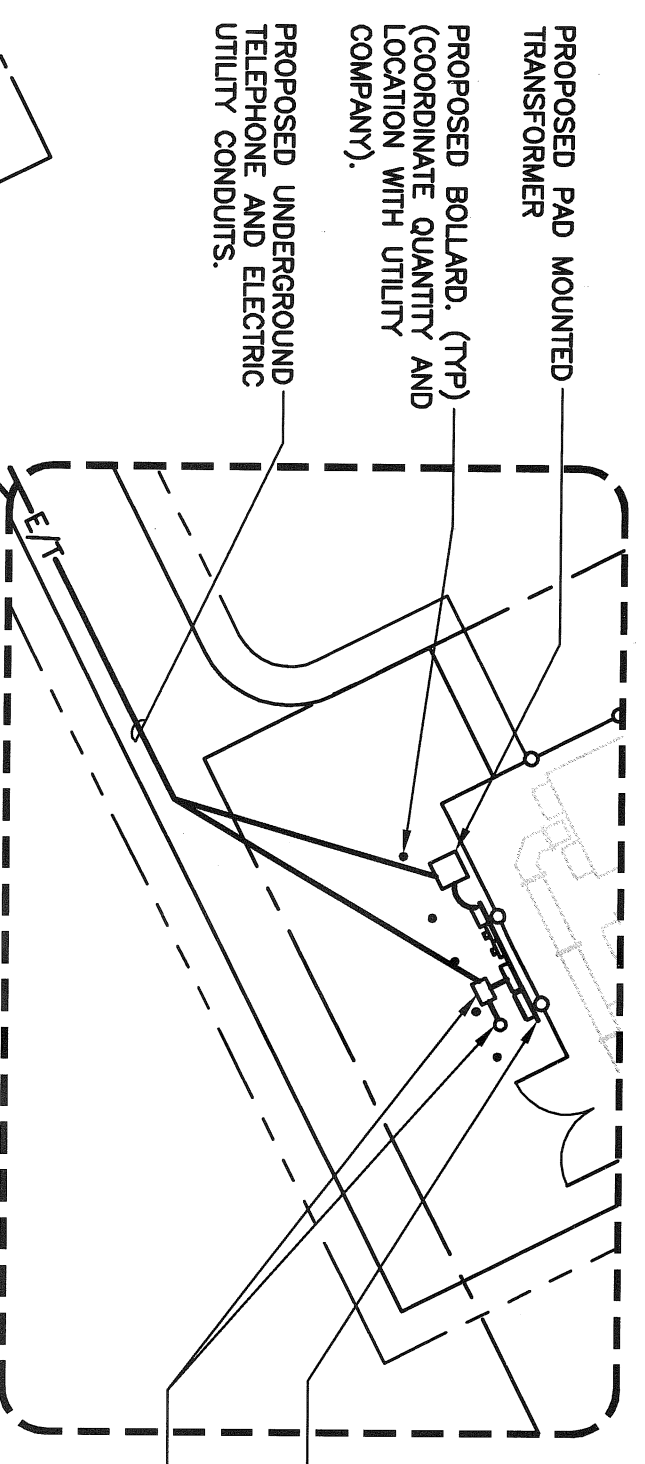
*[Signature]*  
 A. RAFAEL MARTINEZ LLS #18833  
 DATE 10/17/12

	<b>CORNWALL, CT</b> 16 BELL ROAD EXTENSION CORNWALL, CT 06754	<b>CENTEK</b> engineering Centered on Solutions™ (203) 488-0580 (203) 488-8587 Fax 63-2 North Branford Road Branford, CT 06405 www.CentekEng.com	Cellco Partnership d.b.a. verizonwireless		DESIGNED BY: CFC DRAWN BY: TSP CHK'D BY: DMD
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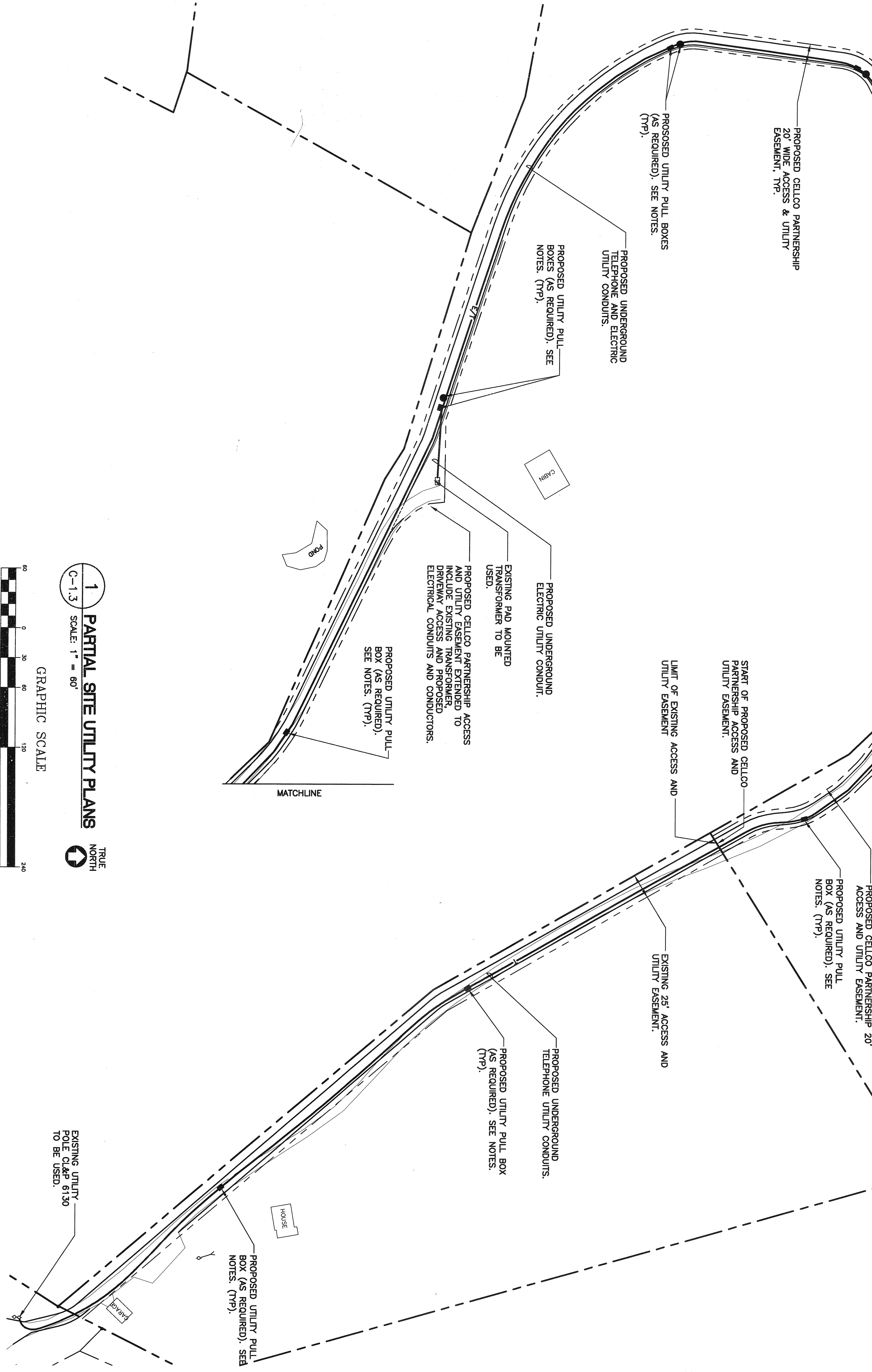








**1.1 ENLARGED VIEW**  
 C-1.3 SCALE: 1" = 20'  
 GRAPHIC SCALE  
 (IN FEET)  
 1 inch = 20 ft

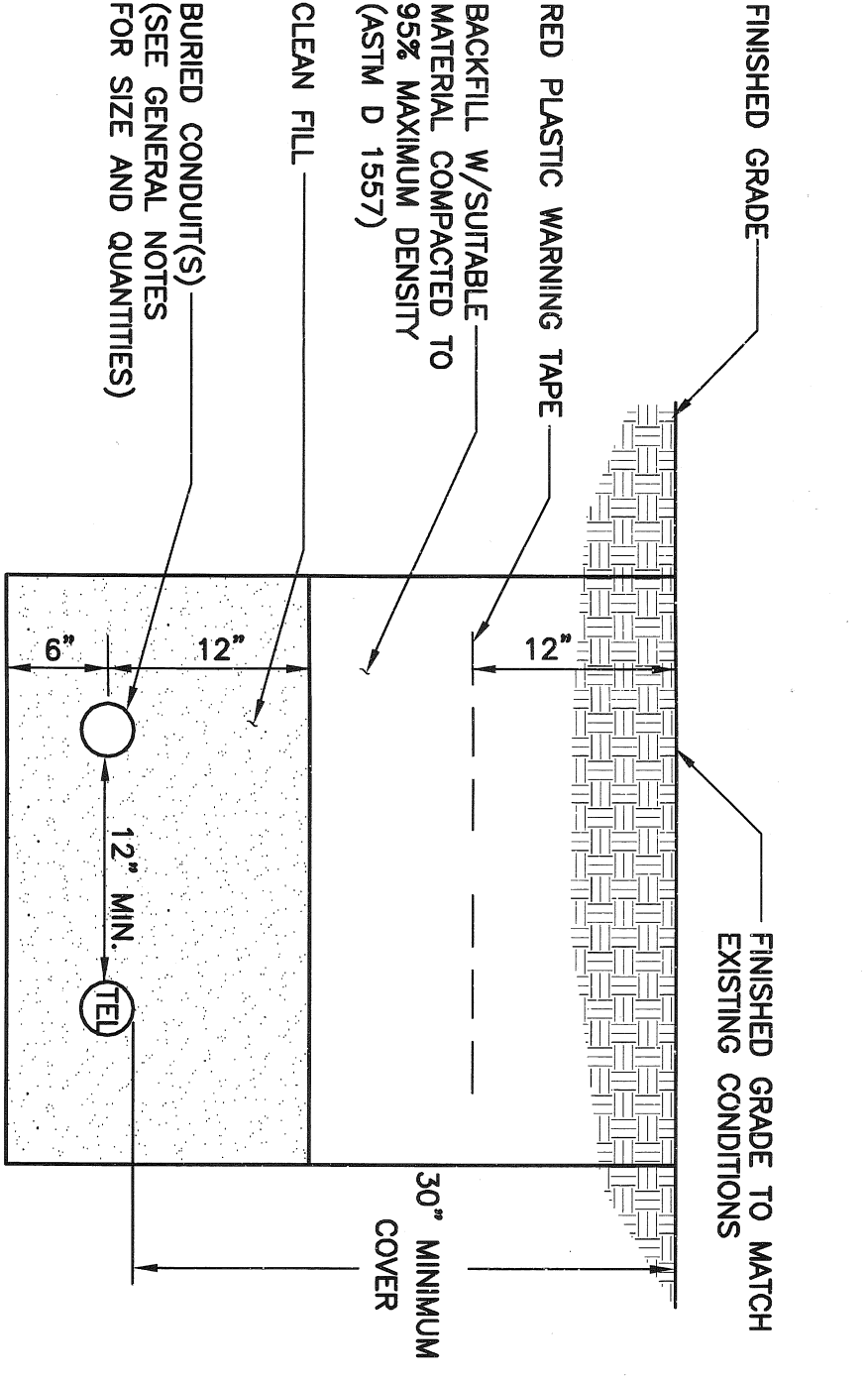


**1 PARTIAL SITE UTILITY PLANS**  
 C-1.3 SCALE: 1" = 60'  
 GRAPHIC SCALE  
 (IN FEET)  
 1 inch = 60 ft

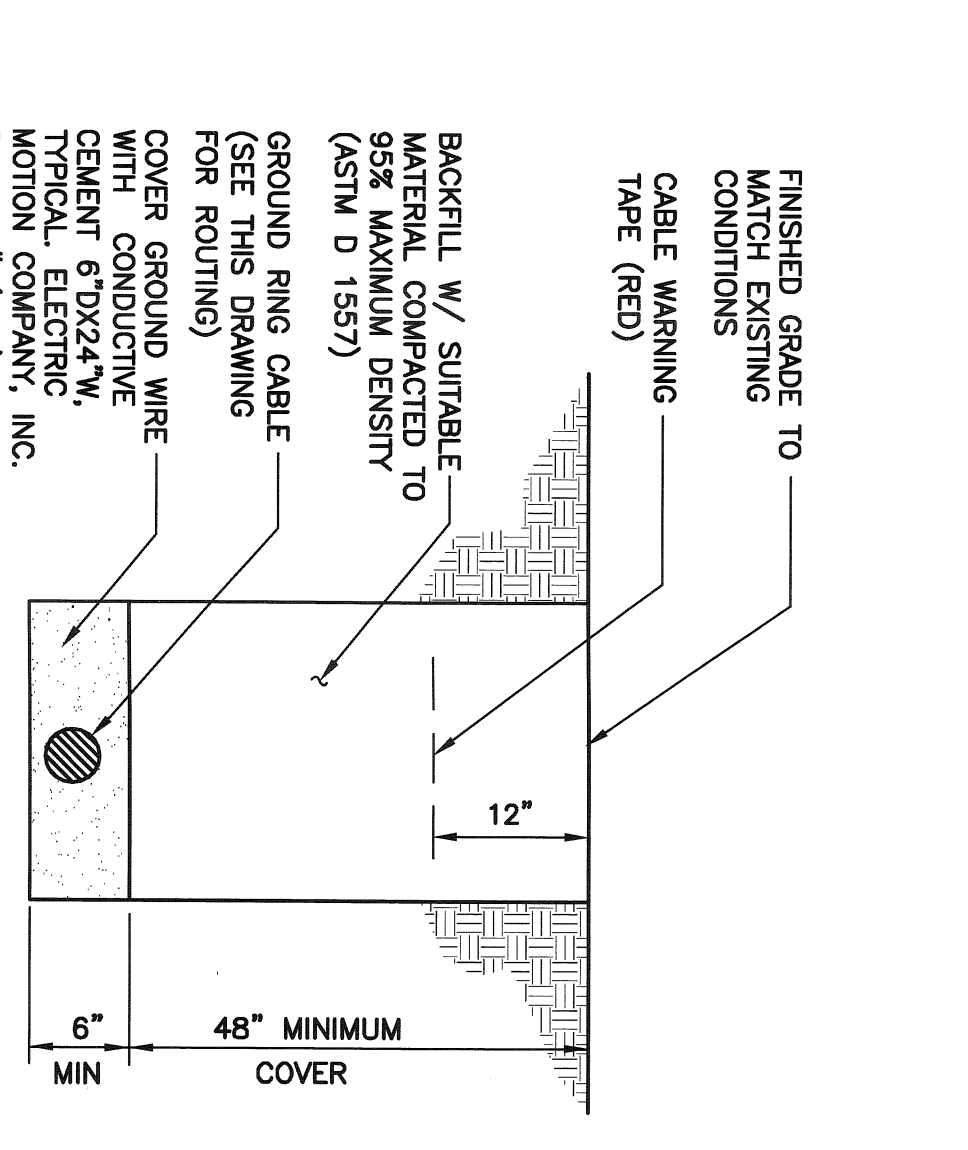
- UTILITY NOTES**
- COORDINATE WITH OWNER FOR ALL EASEMENT DOCUMENTS.
  - UTILITY ROUTING SHOWN ON THIS PLAN IS SCHEMATIC. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES AND EASEMENTS PRIOR TO PERFORMING ANY UTILITY TRENCH WORK. ALL UTILITY CONDUITS AND PULL BOXES SHALL BE LOCATED WITHIN THE PROPOSED AND EXISTING ACCESS/UTILITY EASEMENTS.
  - UTILITY PULL BOXES/SILOES TO BE INSTALLED IN APPROXIMATE LOCATIONS SHOWN ON THIS PLAN. CONTRACTOR SHALL INTERVIEW CONTRACTOR TO COORDINATE FINAL PULL BOX LOCATIONS WITH RESPECTIVE LOCAL UTILITY COMPANIES.
  - CONTRACTOR SHALL COORDINATE ALL PERMITS AND PROCEDURES FOR CONDUIT INSTALLATION ALONG STREET.
  - PLAN IS FOR UTILITY ROUTING INFORMATION ONLY. SOME OTHER ELEMENTS NOT SHOWN FOR CLARITY. REFER TO CIVIL DRAWINGS FOR ALL OTHER EXISTING AND PROPOSED SITE INFORMATION.

**SYMBOLS LEGEND**

---	PROPERTY LINE
- - - - -	ACCESS/ UTILITY EASEMENT LINE (PROPOSED)
—○—	ROUND FENCE LINE (PROPOSED)
—E/T—	ELECTRICAL/TELECO CONDUIT RUN (UNDERGROUND)
—O/H—	UTILITY LINES (OVERHEAD BY UTILITY CO.)
■	UTILITY PULL BOX/SILO
◇	UTILITY POLE

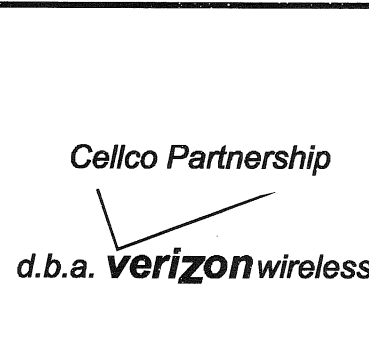
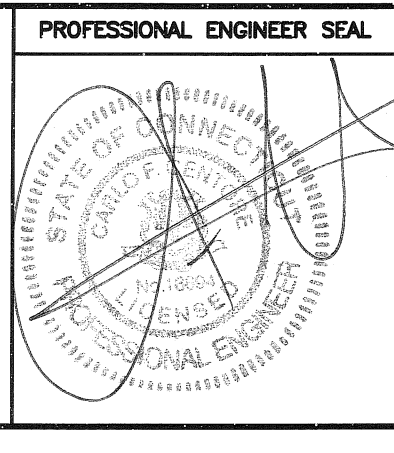


- 2 TYPICAL ELECTRICAL/TEL TRENCH DETAIL**  
 C-1.3 NOT TO SCALE
- NOTES:
- THE CLEAN FILL SHALL PASS THROUGH A 3/8" MESH SCREEN AND SHALL NOT CONTAIN SHARP STONES, OTHER BACKFILL SHALL NOT CONTAIN ASHES, CINDERS, SHELLS, FROZEN MATERIAL, LOOSE DEBRIS OR STONES LARGER THAN 2" IN MAXIMUM DIMENSION.
  - WHERE EXISTING UTILITIES ARE LIKELY TO BE ENCOUNTERED, CONTRACTOR SHALL HAND DIG AND PROTECT EXISTING UTILITIES.



- 3 TYPICAL BURIAL GROUND CABLE DETAIL**  
 C-1.3 NOT TO SCALE
- NOTES:
- BACK FILL SHALL NOT CONTAIN ASHES, CINDERS, SHELLS, FROZEN MATERIAL, LOOSE DEBRIS OR STONES LARGER THAN 2" IN MAXIMUM DIMENSION.
  - WHERE EXISTING UTILITIES ARE LIKELY TO BE ENCOUNTERED, CONTRACTOR SHALL HAND DIG AND PROTECT EXISTING UTILITIES.

DESIGNED BY:	CFC			
DRAWN BY:	TSP			
CHK'D BY:	DMD			
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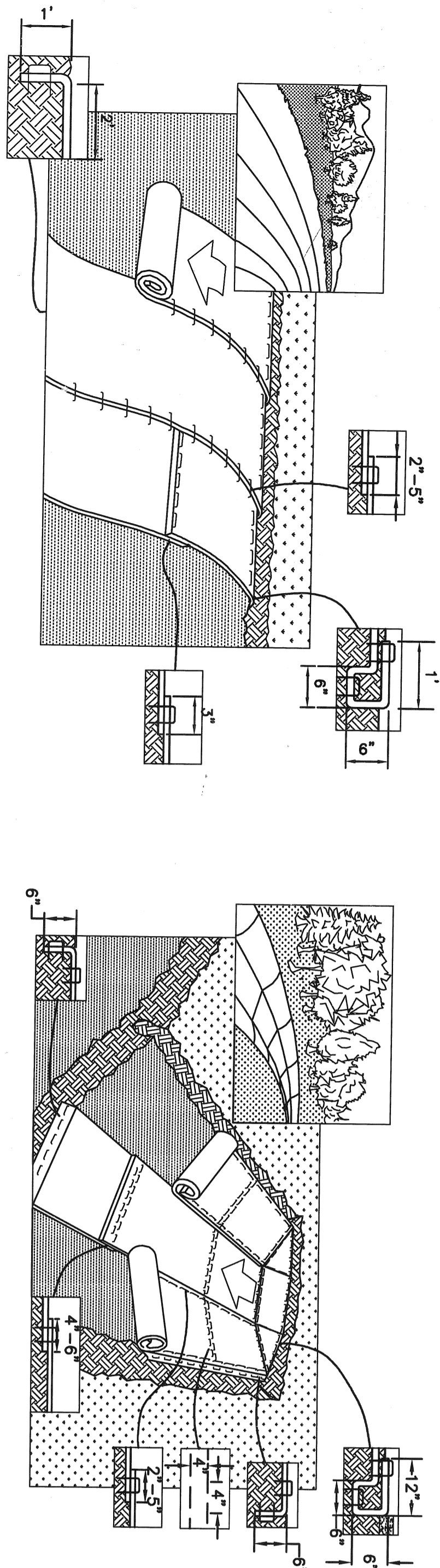
**C-1.3**  
 SHEET NO. 5 OF 12  
 SITE UTILITY PLANS AND DETAILS







**EROSION CONTROL BLANKET STABILIZATION**



**1** TYPICAL EROSION MAT INSTALLATION ON SLOPE  
C-3.0 NOT TO SCALE

**2** TYPICAL EROSION MAT INSTALLATION IN CHANNEL  
C-3.0 NOT TO SCALE

**STABILIZATION CRITERIA**

- CONTRACTOR SHALL IMPLEMENT EROSION CONTROL BLANKET SLOPE STABILIZATION & SWALE CONSTRUCTION WHEN STABLE EARTH CUTS ARE PREVALENT (IN LOCATIONS WITHOUT LEDGE OR LARGE AMOUNTS OF SUBGRADE ROCK)

**EROSION MAT ON SLOPES**

- 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.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLE/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
- ROLL THE BLANKET DOWN OR HORIZONTALLY ACROSS THE SLOPE. BLANKET WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL ROLLED EROSION CONTROL 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(TM), STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY A 2'-5" OVERLAP DEPENDING ON BLANKET TYPE.
- CONSECUTIVE ROLLED EROSION CONTROL BLANKET SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.  
\* IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKET.
- THE EDGE OF THE BLANKET IS TO EXTEND A MINIMUM 24 INCHES BEYOND THE TOE OF THE SLOPE AND ANCHORED BY PLACING THE STAPLES/STAKES IN A 12 INCH DEEP x 6 INCH WIDE ANCHOR TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12 INCH APART IN THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING (STONE OR SOIL MAY BE USED AS BACKFILL).
- REFER TO MANUFACTURERS STAPLE GUIDE FOR CORRECT STAPLE PATTERN, MINIMUM 4 SPIKES PER ONE SQ. FT.

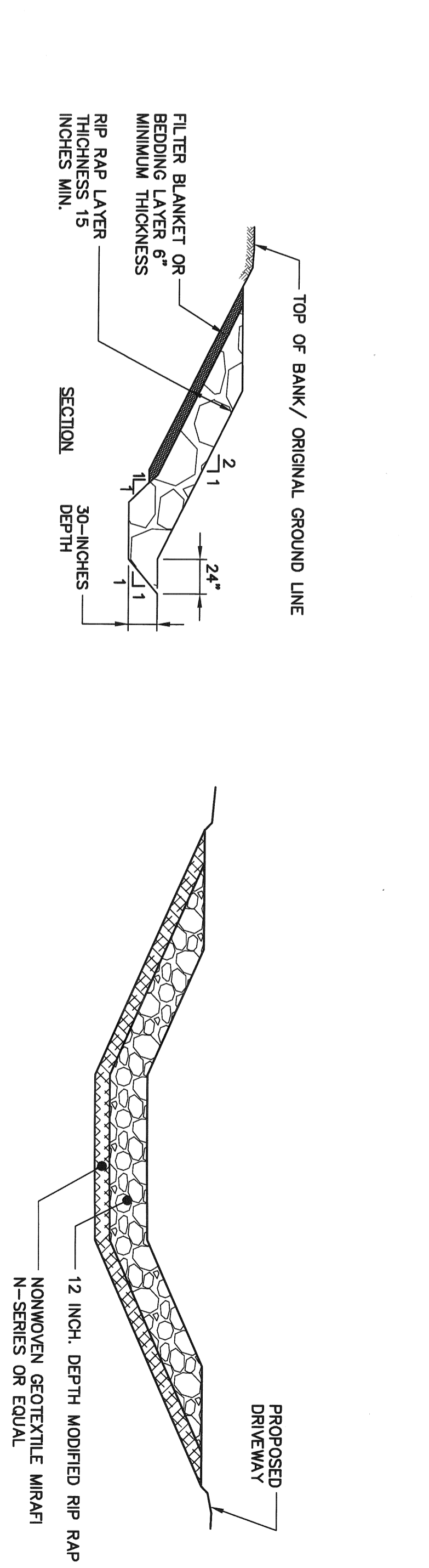
**EROSION MAT IN CHANNEL**

- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
- BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLE/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
- 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(TM), STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4"-6" OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER TO SECURE BLANKETS.
- FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP BY 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 2'-5" AND STAPLED TO ENSURE PROPER SEAM ALIGNMENT. PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH(TM) ON THE BLANKET BEING OVERLAPPED.
- THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP BY 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- REFER TO MANUFACTURERS STAPLE GUIDE FOR CORRECT STAPLE PATTERN, MINIMUM 4 SPIKES PER ONE SQ. FT. THE CONTRACTOR SHALL MAINTAIN THE BLANKET UNTIL ALL WORK ON THE CONTRACT HAS BEEN COMPLETED AND ACCEPTED. MAINTENANCE SHALL CONSIST OF THE REPAIR OF AREAS WHERE THE BLANKET IS DAMAGED. ALL DAMAGED AREAS SHALL BE REPAIRED TO RE-ESTABLISH THE CONDITIONS AND GRADE OF THE SOIL PRIOR TO APPLICATION OF THE COVERING AND SHALL BE RE-FERTILIZED, RESEEDDED, AND REMULCHED AS DIRECTED.

**MAINTENANCE**

THE CONTRACTOR SHALL MAINTAIN THE BLANKET UNTIL ALL WORK ON THE CONTRACT HAS BEEN COMPLETED AND ACCEPTED. MAINTENANCE SHALL CONSIST OF THE REPAIR OF AREAS WHERE DAMAGED BY ANY CAUSE. ALL DAMAGED AREAS SHALL BE REPAIRED TO RE-ESTABLISH THE CONDITIONS AND GRADE OF THE SOIL PRIOR TO APPLICATION OF THE COVERING AND SHALL BE RE-FERTILIZED, RESEEDDED, AND REMULCHED AS DIRECTED.

**RIP RAP STABILIZATION**



**3** RIP RAP SLOPE STABILIZATION  
C-3.0 NOT TO SCALE

**4** RIP RAP DRAINAGE SWALE STABILIZATION  
C-3.0 NOT TO SCALE

**STABILIZATION CRITERIA**

- CONTRACTOR SHALL IMPLEMENT RIP RAP SLOPE STABILIZATION & SWALE CONSTRUCTION IN LOCATIONS WHERE LEDGE OR UNSTABLE SUBGRADES WITH LARGE AMOUNTS OF ROCK ARE PREVALENT OR AS SPECIFICALLY INDICATED ON THE PLANS.

**RIP RAP ON SLOPES AND CHANNELS**

- PREPARE THE SUBGRADE FOR RIP RAP, BEDDING, FILTER OR GEOTEXTILE TO THE REQUIRED LINES AND GRADES. COMPACT ANY FILL REQUIRED IN THE SUBGRADE IN 12-INCHES LIFTS TO 95% OF STANDARD PROCTOR DENSITY. REMOVE BRUSH, TREES, STUMPS, AND OTHER OBJECTIVE MATERIAL.
- IMMEDIATELY AFTER SLOPE OR CHANNEL PREPARATION, INSTALL THE FILTER OR BEDDING MATERIALS. SPREAD THE FILTER OR BEDDING MATERIALS IN A UNIFORM LAYER TO THE SPECIFIED DEPTH.
- IMMEDIATELY AFTER PLACEMENT OF THE FILTER BLANKET, BEDDING, PLACE THE RIP RAP TO ITS FULL COURSE THICKNESS IN ONE OPERATION SO THAT IT PRODUCES A DENSE WELL GRADED MASS OF STONE WITH A MINIMUM OF VOIDS. THE DESIRED DISTRIBUTION OF STONES THROUGHOUT THE MASS MAY BE OBTAINED BY SELECTIVE LOADING AT THE QUARRY, CONTROLLED DUMPING OF SUCCESSIVE LOADS DURING THE FINAL PLACING, OR BY A COMBINATION OF THESE METHODS. DO NOT PLACE RIP RAP IN LAYERS OR USE CHUTES OR SIMILAR METHODS TO DUMP THE RIP RAP WHICH ARE LIKELY TO CAUSE SEPARATION OF THE VARIOUS SIZES.
- TAKE CARE NOT TO DISLODGE THE UNDERLYING MATERIAL WHEN PLACING THE STONES. WHEN PLACING RIP RAP ON A FILTER FABRIC, TAKE CARE NOT TO DAMAGE THE FABRIC. IF DAMAGE OCCURS, REMOVE AND REPLACE THE DAMAGED SHEET. FOR LARGE STONE, 12 INCHES OR GREATER, USE A 6 INCH LAYER OF FILTER OR BEDDING MATERIAL TO PREVENT DAMAGE TO THE MATERIAL FROM PUNCTURE.
- ENSURE THE FINISHED SLOPE OR CHANNEL IS FREE OF POCKETS OF SMALL STONES OR CLUSTERS OF LARGE STONES. HAND PLACING MAY BE NECESSARY TO ACHIEVE THE REQUIRED GRADES AND A GOOD DISTRIBUTION OF STONE SIZES. ENSURE THE FINAL THICKNESS OF THE RIP RAP BLANKET IS WITHIN PLUS OR MINUS 0.25 OF THE SPECIFIED THICKNESS.

**MAINTENANCE**

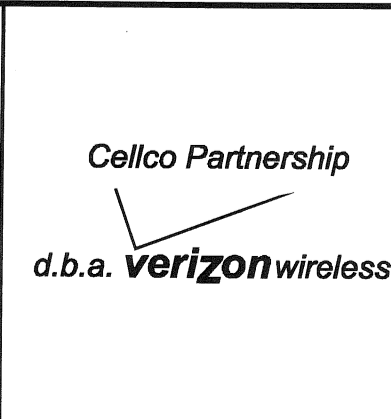
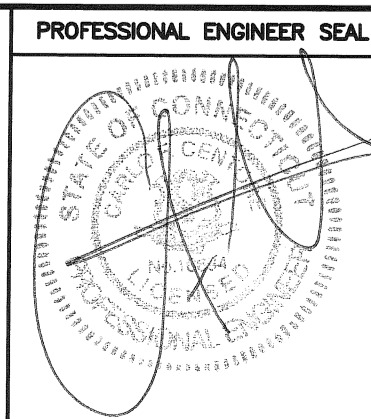
VERSION WIRELESS SHALL PERIODICALLY INSPECT RIP RAP STABILIZED SLOPES & CHANNELS DETERMINE IF HIGH FLOWS HAVE CAUSED SCOUR BENEATH THE RIP RAP OR FILTER BLANKET MATERIALS. REMOVE TREES THAT DEVELOP IN THE PROTECTED SLOPES.

**MODIFIED RIP RAP SIZE CHART**

STONE SIZE	% OF MASS
6" TO 10"	30-50
10" AND OVER	0
4" TO 6"	30-50
2" TO 4"	20-30
1" TO 2"	10-20
LEES THAN 1"	0-10

DESIGNED BY:	CFC
DRAWN BY:	TSP
CHK'D BY:	DMD

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
2	10/05/12	DMD	CFC	REVISED D&M - PER CSC INTERROGATORIES
1	08/31/12	DMD	CFC	ISSUED FOR D&M
0	08/17/12	DMD	CFC	ISSUED FOR D&M - CLIENT REVIEW



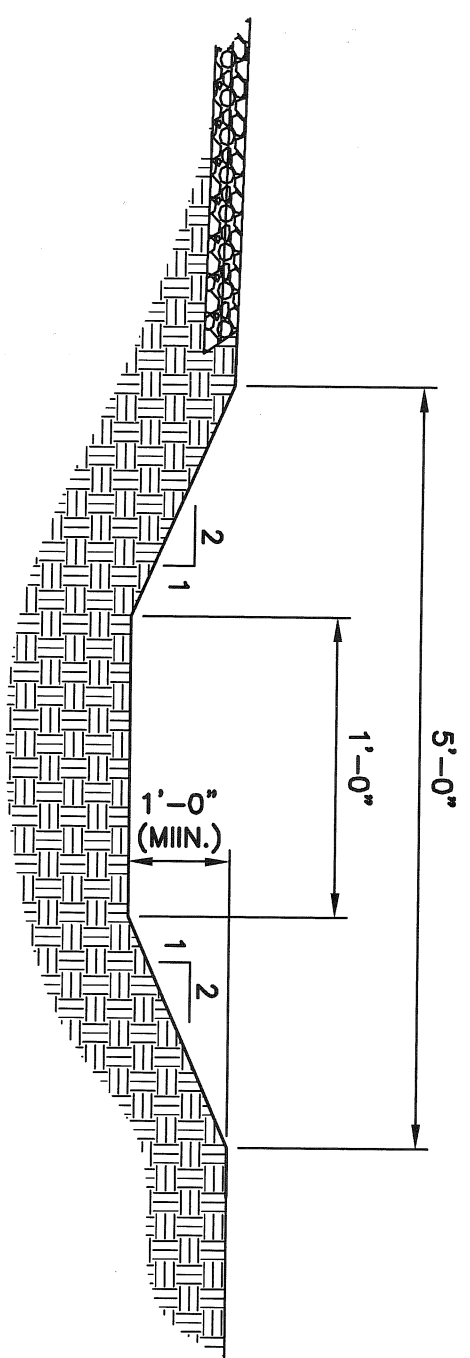
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WIRELESS COMMUNICATIONS FACILITY  
**CORNWALL, CT**  
16 BELL ROAD EXTENSION  
CORNWALL, CT 06754

DATE: 08/17/12  
SCALE: AS NOTED  
JOB NO.: 08188

SLOPE & CHANNEL STABILIZATION NOTES & DETAILS

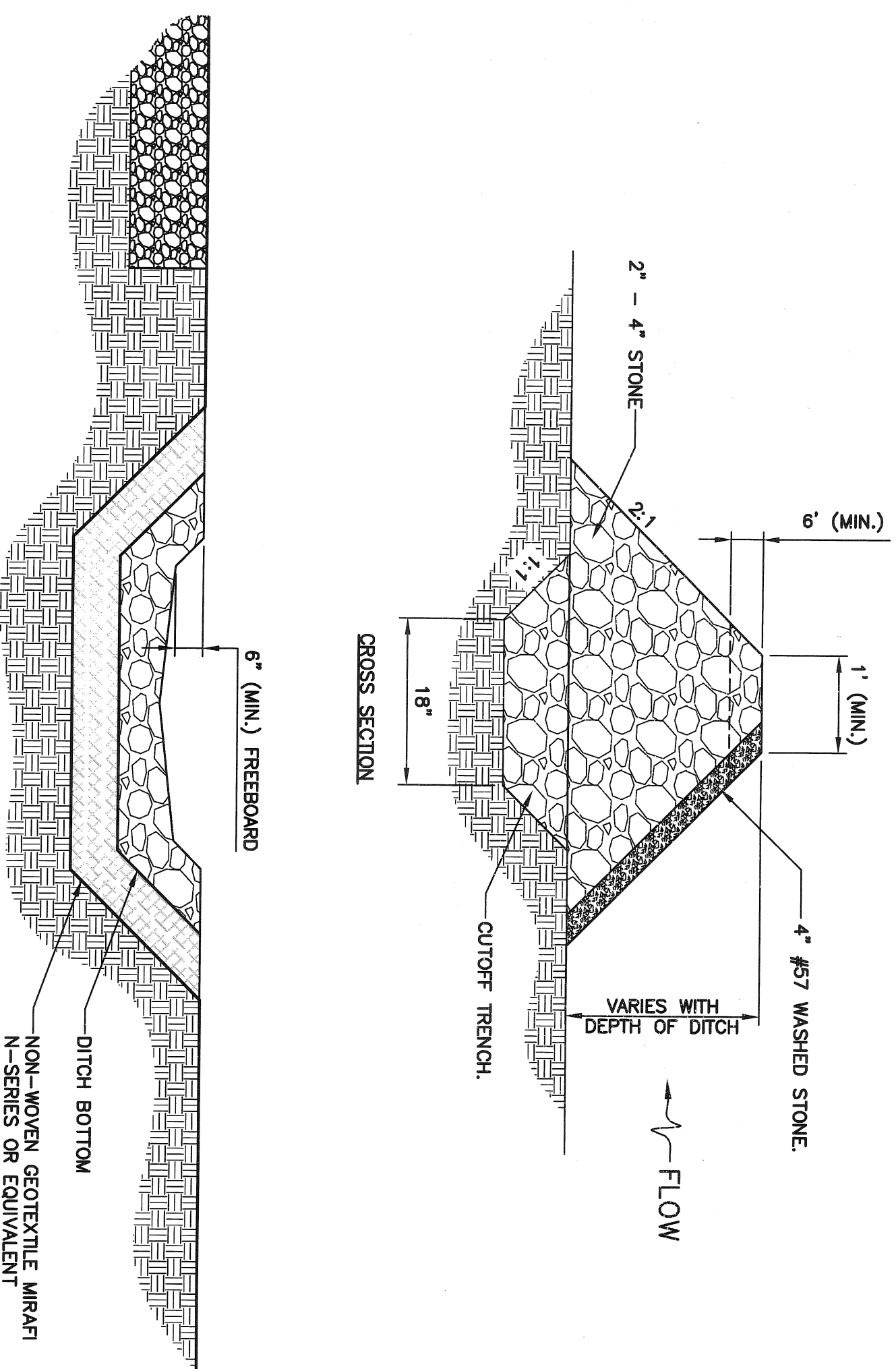




1 DRAINAGE CHANNEL SECTION  
C-3.1 NOT TO SCALE

**DRAINAGE CHANNEL GENERAL NOTES**

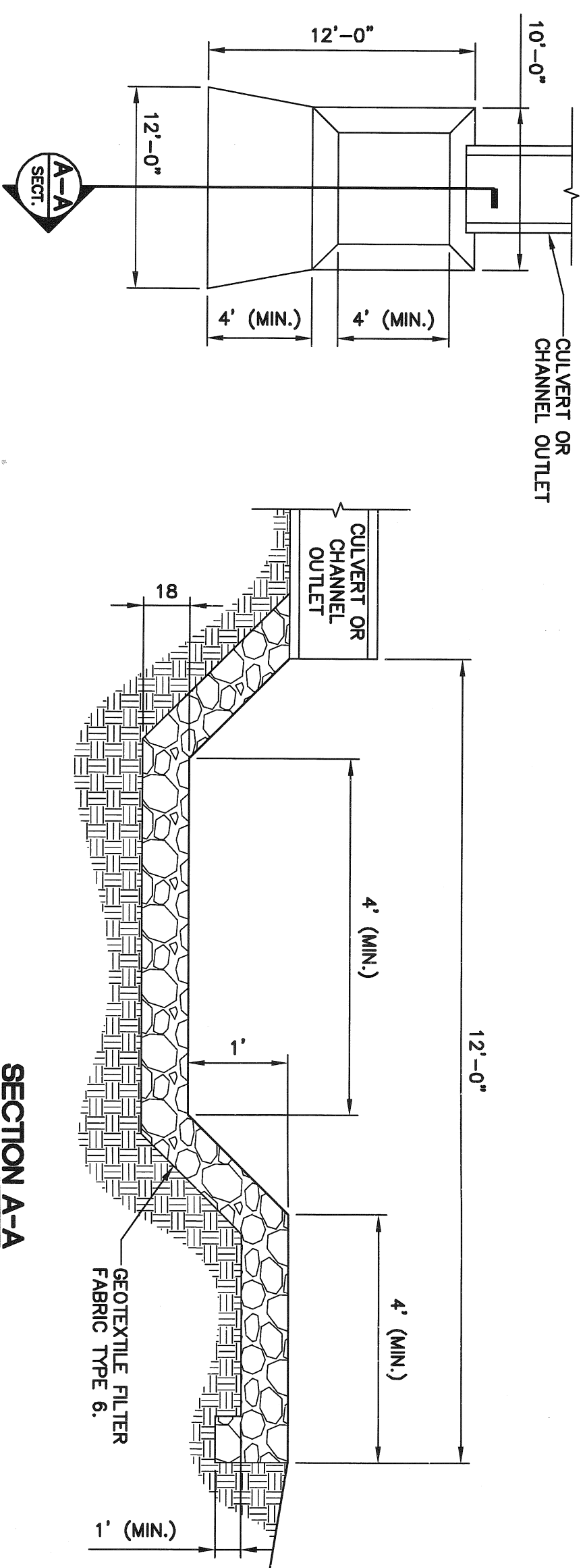
1. REMOVE ALL TREES, BRUSH, STUMPS, AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA AND DISPOSE OF PROPERLY (THE CHANNEL SECTION SHOULD BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH PREVENT NORMAL FLOW).
2. EXCAVATE AND SHAPE CHANNEL TO DIMENSIONS SHOWN ON PLANS, OVERCUT ENTIRE CHANNEL 0.2 FT TO ALLOW FOR BULKING OF SOIL.
3. REMOVE AND PROPERLY DISPOSE OF EXCESS SOIL SO THAT SURFACE WATER MAY ENTER THE CHANNEL FREELY.
4. FILLS PLACED IN WATERWAYS SHOULD BE THOROUGHLY COMPACTED IN ORDER TO PREVENT UNEQUAL SETTLEMENT THAT COULD CAUSE DAMAGE IN THE COMPLETED WATERWAY.
5. PROTECT ALL CONCENTRATED INFLOW POINTS ALONG CHANNEL BY INSTALLING A TEMPORARY LINER, RIP RAP, SOD, OR OTHER APPROPRIATE MEASURES.
6. STABILIZE OUTLETS AND INSTALL SEDIMENT TRAPS AS NEEDED DURING CHANNEL INSTALLATION. VEGETATE THE CHANNEL IMMEDIATELY AFTER GRADING. SMOOTH SLOPES FACILITATE MAINTENANCE.



2 STONE CHECK DAM DETAIL  
C-3.1 NOT TO SCALE

**STONE CHECK DAM GENERAL NOTES**

1. PROVIDE A MINIMUM 6" OF FREEBOARD BETWEEN THE BANKS OF THE DITCH TO THE CREST OF THE STONE CHECK DAM.
2. SUBGRADE FOR THE FILTER MATERIAL, GEOTEXTILE FABRIC OR RIP RAP SHOULD BE CLEARED AND GRUBBED TO REMOVE ALL ROOTS, VEGETATION, AND DEBRIS AND PREPARED TO THE LINES AND GRADES SHOWN ON THE PLANS.
3. EXCAVATE DEEP ENOUGH FOR BOTH FILTER AND STONE. COMPACT ANY FILL MATERIAL TO THE DENSITY OF SURROUNDING UNDISTURBED SOIL.
4. PLACE STONE IMMEDIATELY AFTER INSTALLING FILTER.
5. IF FABRIC IS DAMAGED, REMOVE STONE AND REPAIR FABRIC BY ADDING ANOTHER LAYER, OVERLAPPING THE DAMAGED AREA BY 12 INCHES.
6. BLEND THE STONE SURFACE SMOOTHLY WITH THE SURROUNDING AREA ALLOWING NO PROTRUSIONS OR OVERFALL.
7. DISCHARGE OVER CHECK DAM TO BE DIRECTED TO CENTER OF DOWNSTREAM DITCH.



3 RIP-RAP OUTLET BASIN DETAILS  
C-3.1 NOT TO SCALE

**RIP-RAP OUTLET BASIN GENERAL NOTES**

1. RIP RAP APRONS SHALL EXTEND TO THE LIMITS OF STABLE, NATURAL GROUND.
2. THERE SHALL BE NO ELEVATION CHANGE FROM THE END OF THE APRON TO THE SURFACE OF THE RECEIVING AREA. THE AREA TO BE RIP RAPPED SHALL BE UNDERCUT SO THAT THE INVERT OF THE APRON SHALL BE AT THE SAME GRADE (FLUSH) WITH THE SURFACE OF THE RECEIVING GROUND. THE APRON SHALL HAVE A CUTOFF OR TOE WALL AT THE DOWNSTREAM END.
3. FILTER FABRIC SHALL BE INSTALLED ON COMPACTED SUBGRADE PRIOR TO PLACEMENT OF RIP RAP.
4. ALL RIP RAP OUTLET PROTECTION TO BE PLACED IN DITCH SECTIONS SHALL BE SHAPED TO CONFORM TO THE OUTLET DITCH GEOMETRY, EXTENDING TO THE HEIGHT OF NATURAL GROUND AND ADJOINING TO A MINIMUM LENGTH AND THICKNESS AS SPECIFIED IN THE TABLE ABOVE.
5. EXCAVATE SUBGRADE BELOW DESIGN ELEVATION TO ALLOW FOR THICKNESS OF FILTER AND RIP RAP. INSTALL RIP RAP TO MINIMUM THICKNESS OF 1.5 TIMES MAXIMUM STONE DIAMETER.
6. CONSTRUCT APRON ON ZERO GRADE. IF THERE IS NO WELL-DEFINED CHANNEL, CROSS SECTION MAY BE LEVEL OR SLIGHTLY DEPRESSED IN THE MIDDLE. IN A WELL-DEFINED CHANNEL, EXTEND RIP RAP AND FILTER TO THE TOP OF THE BANK OR AS SHOWN ON PLANS. BLEND RIP RAP SMOOTHLY TO THE SURROUNDING LAND.
7. APRON SHOULD BE STRAIGHT AND PROPERLY ALIGNED WITH THE RECEIVING DITCH. IF A CURVE IS NECESSARY TO FIT SITE CONDITIONS, CURVE THE APRON NEAR THE UPSTREAM END.
8. COMPACT ANY FILL USED IN THE SUBGRADE TO THE DENSITY OF THE SURROUNDING UNDISTURBED MATERIAL.
9. SUBGRADE SHOULD BE SMOOTH ENOUGH TO PROTECT FABRIC FROM TEARING.
10. INSTALL A CONTINUOUS SECTION OF EXTRA-STRENGTH FILTER FABRIC ON SMOOTH, COMPACTED FOUNDATION.
11. PROTECT FILTER FABRIC FROM TEARING WHILE PLACING RIP RAP WITH MACHINERY. REPAIR ANY DAMAGE IMMEDIATELY BY REMOVING RIP RAP AND INSTALLING ANOTHER SECTION OF FILTER FABRIC. UPSTREAM SECTION OF FABRIC SHOULD OVERLAP DOWNSTREAM SECTION A MINIMUM OF ONE FOOT.
12. MAKE SURE TOP OF RIP RAP APRON IS LEVEL WITH RECEIVING WATERWAY OR SLIGHTLY BELOW IT. RIP RAP SHOULD NOT RESTRICT THE CHANNEL OR PRODUCE AN OVERFALL.
13. IMMEDIATELY FOLLOWING INSTALLATION, STABILIZE ALL DISTURBED AREAS WITH VEGETATION.

DESIGNED BY: CFC	DATE: 08/17/12	<b>Cellco Partnership d/b/a Verizon Wireless</b> WIRELESS COMMUNICATIONS FACILITY <b>CORNWALL, CT</b> 16 BELL ROAD EXTENSION CORNWALL, CT 06754	<b>CEN TEK</b> engineering Centered on Solutions™ (203) 488-0580 (203) 488-8587 Fax 63-2 North Branford Road Branford, CT 06405 www.CentelEng.com	Cellco Partnership d.b.a. <b>verizon</b> wireless	PROFESSIONAL ENGINEER SEAL 	DRAWN BY: TSP CHK'D BY: DMD
SCALE: AS NOTED JOB NO.: 08168	REVISIONS: 2 10/05/12 DMD CFC REVISED D&M - PER CSC INTERROGATORIES 1 08/31/12 DMD CFC ISSUED FOR D&M 0 08/17/12 DMD CFC ISSUED FOR D&M - CLIENT REVIEW					



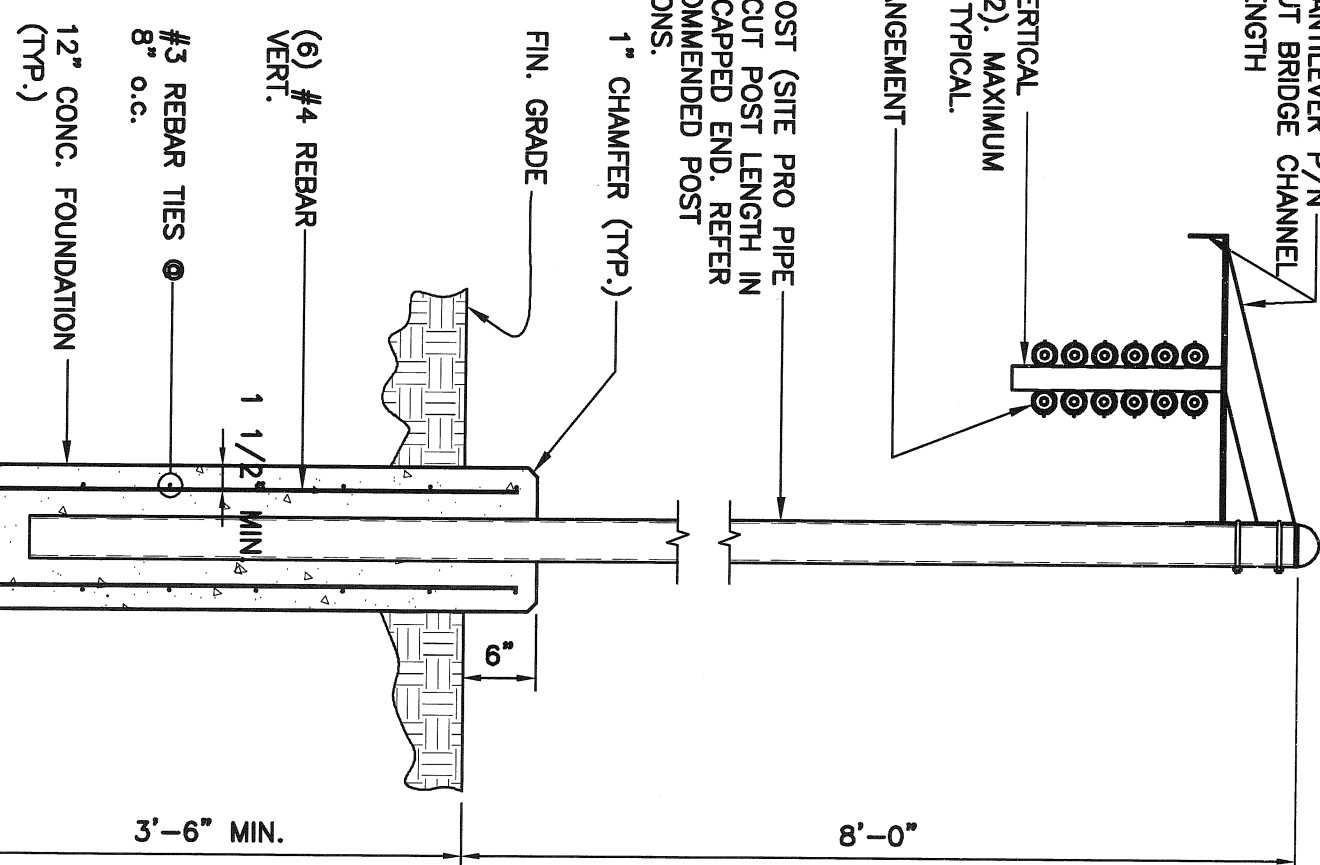




SITE PRO UNIVERSAL CANTILEVER P/N  
HH024-K & GRIP STRUT BRIDGE CHANNEL  
P/N GNS24 CUT TO LENGTH

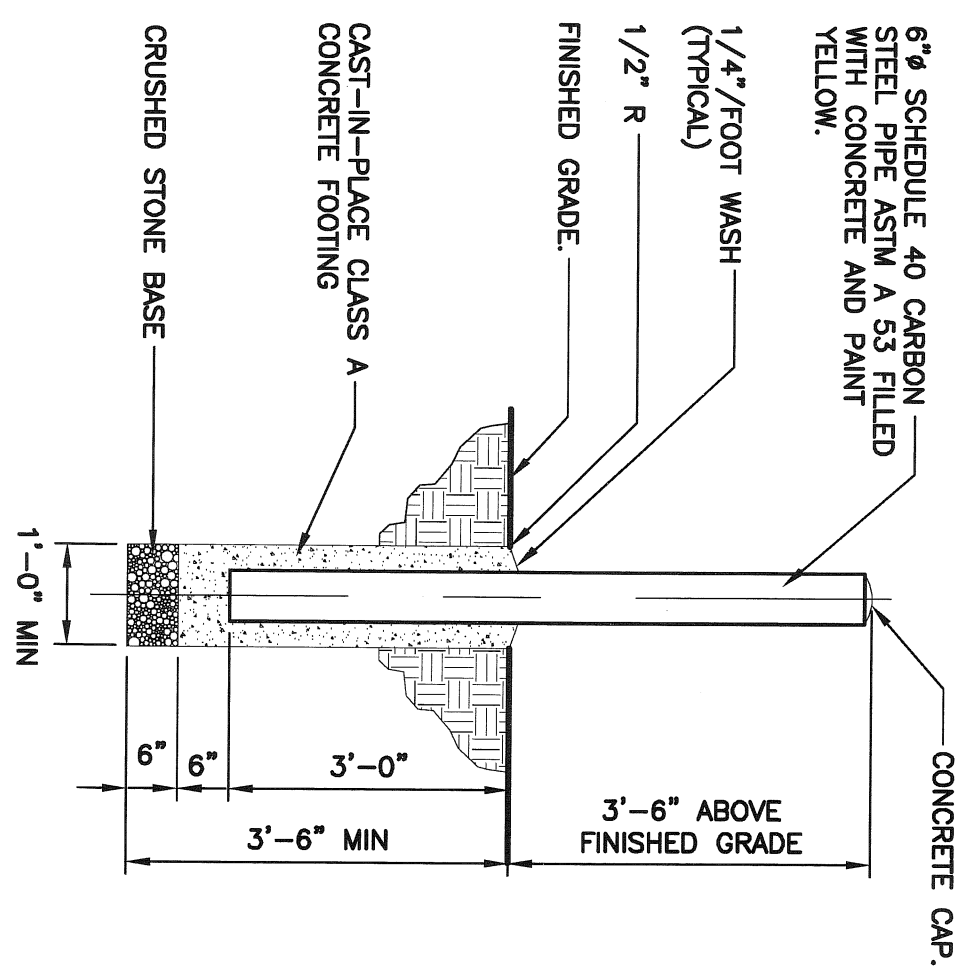
SITE PRO UNIVERSAL VERTICAL  
TRAPEZOID KIT (P/N V112). MAXIMUM  
CABLE SPAN = 3'-0". TYPICAL.  
ANTENNA CABLES. ARRANGEMENT  
BY CONTRACTOR.

ICE BRIDGE SUPPORT POST (SITE PRO PIPE  
COLUMN P/N P3216). ON RISE END REFER  
FIELD BY REMOVING UNCOMPRESSED POST  
TO SITE PRO FOR RECOMMENDED POST  
SPACING & SPECIFICATIONS.



**1 ICE BRIDGE DETAIL**  
C-4 NOT TO SCALE

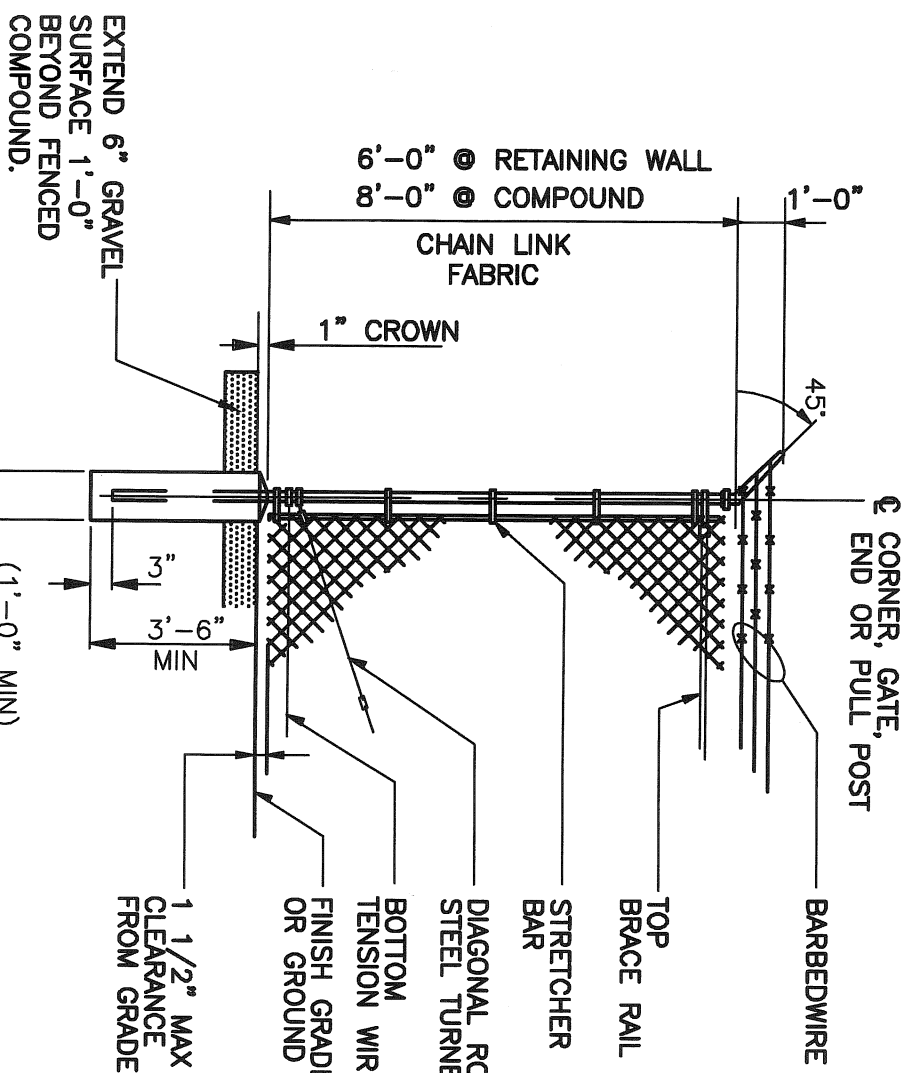
**2 BOLLARD DETAIL**  
C-4 NOT TO SCALE



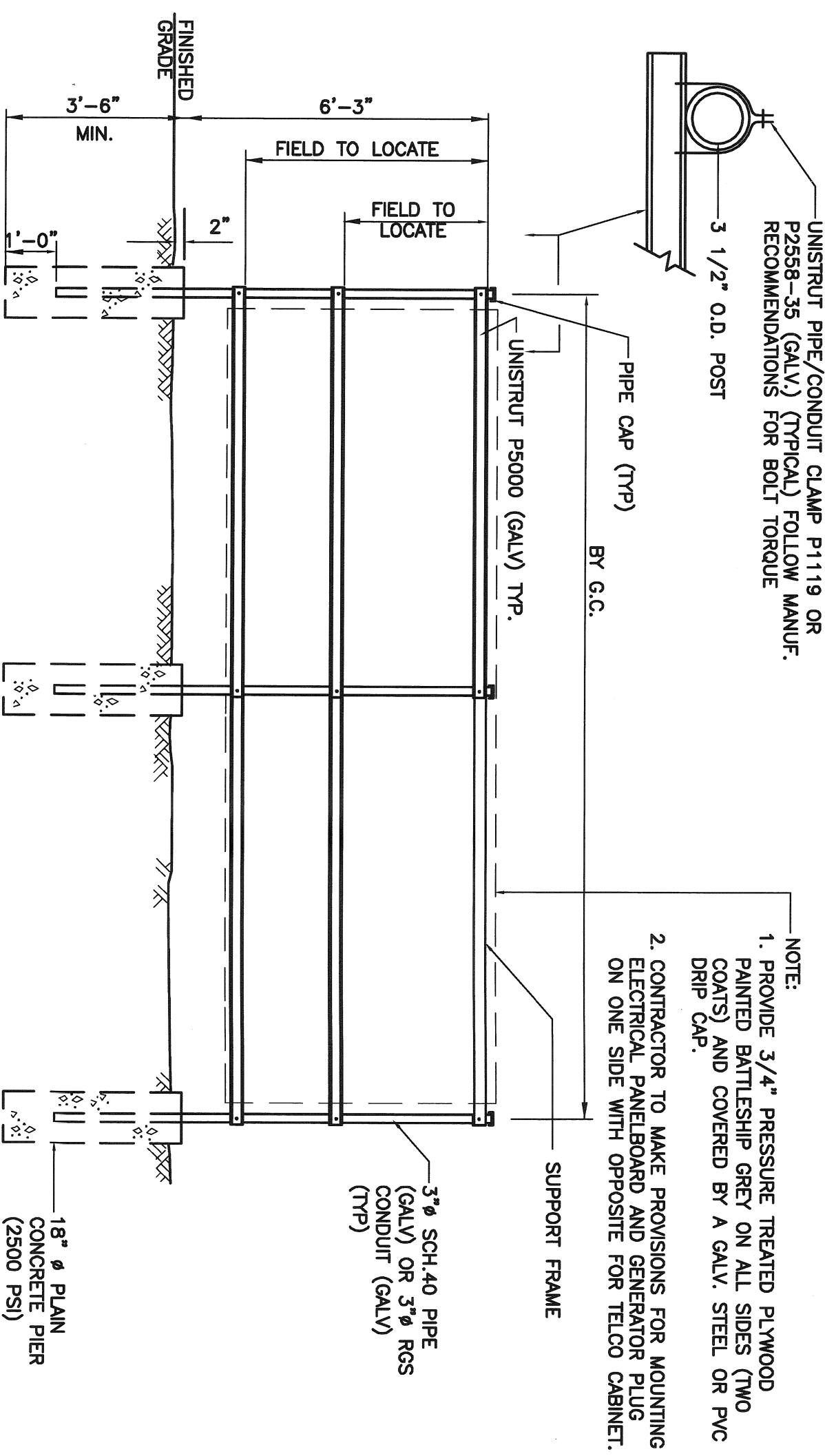
**WOVEN WIRE FENCE NOTES**

1. GATE POST, CORNER, TERMINAL OR PULL POST: 2" 1/2" SCHEDULE 40 PIPE PER ASTM-F1083.
2. LINE POST: 2" SCHEDULE 40 PIPE PER ASTM-F1083.
3. GATE FRAME: 1 1/2" SCHEDULE 40 PIPE PER ASTM-F1083.
4. TOP RAIL & BRACE RAIL: 1 1/2" SCHEDULE 40 PIPE PER ASTM-F1083.
5. FABRIC: 12 GA. CORE WIRE SIZE 2" MESH, CONFORMING TO ASTM-A392.
6. TIE WIRE: MINIMUM 11 GA. GALVANIZED STEEL AT POSTS AND RAILS A SINGLE WRAP OF FABRIC TIE AND AT TENSION WIRE BY HOG RINGS SPACED MAX 24" INTERVALS.
7. TENSION WIRE: 7 GA. GALVANIZED STEEL.
8. BARBED WIRE: DOUBLE STRAND 12-1/2" O.D. TWISTED WIRE TO MATCH W/FABRIC 14 GA. 4 FT. BARS SPACED ON APPROXIMATELY 5' CENTERS.
9. GATE LATCH: DROP DOWN LOCKABLE FORK LATCH AND LOCK, KEYS ALIKE FOR ALL SITES IN A GIVEN MTA.
10. LOCAL ORDINANCE OF BARBED WIRE PERMIT REQUIREMENT SHALL BE COMPLIED WITH IF REQUIRED.
11. COMPOUND FENCE HEIGHT = 8' VERTICAL + 1' BARBED WIRE VERTICAL DIMENSION.
12. SAFETY FENCE HEIGHT = 6' VERTICAL DIMENSION (NO BARBED WIRE REQUIRED).

**4 WOVEN WIRE FENCE DETAIL**  
C-4 NOT TO SCALE

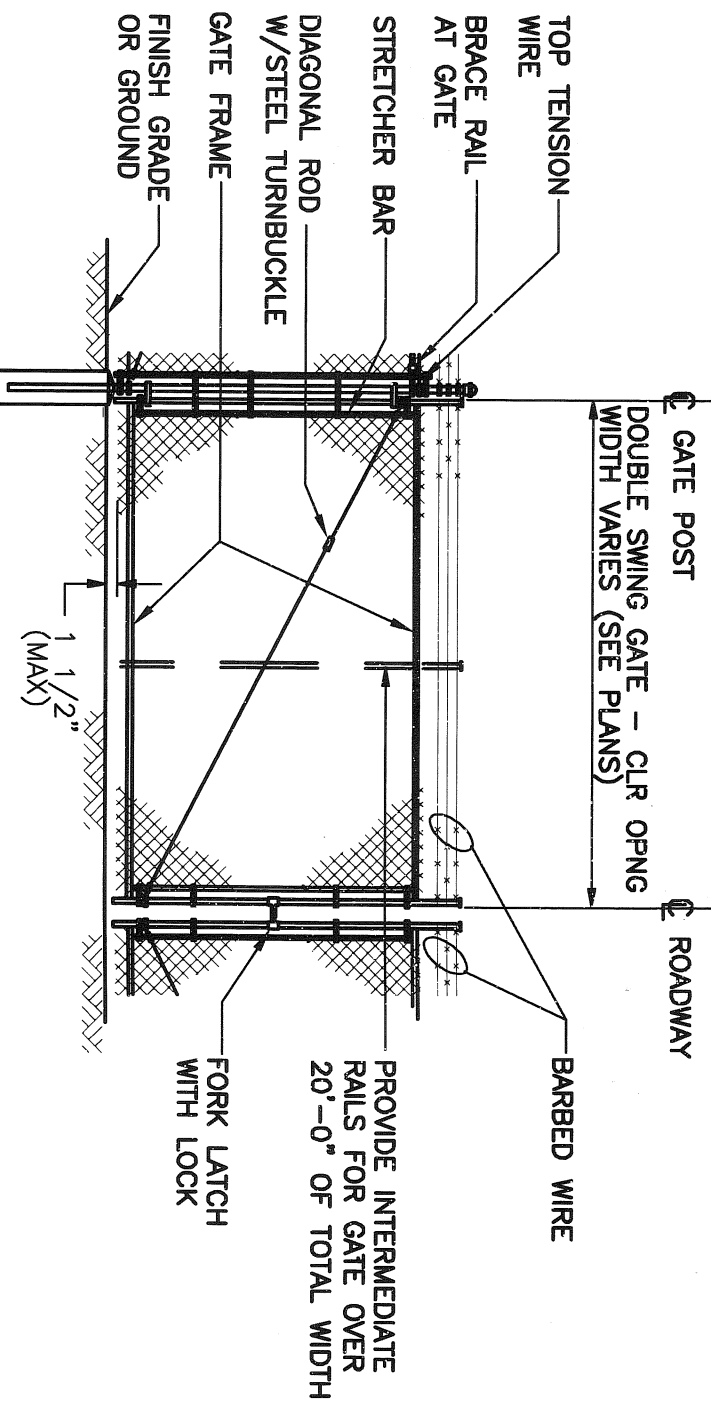


**3 UTILITY SUPPORT FRAME (TYP)**  
C-4 NOT TO SCALE

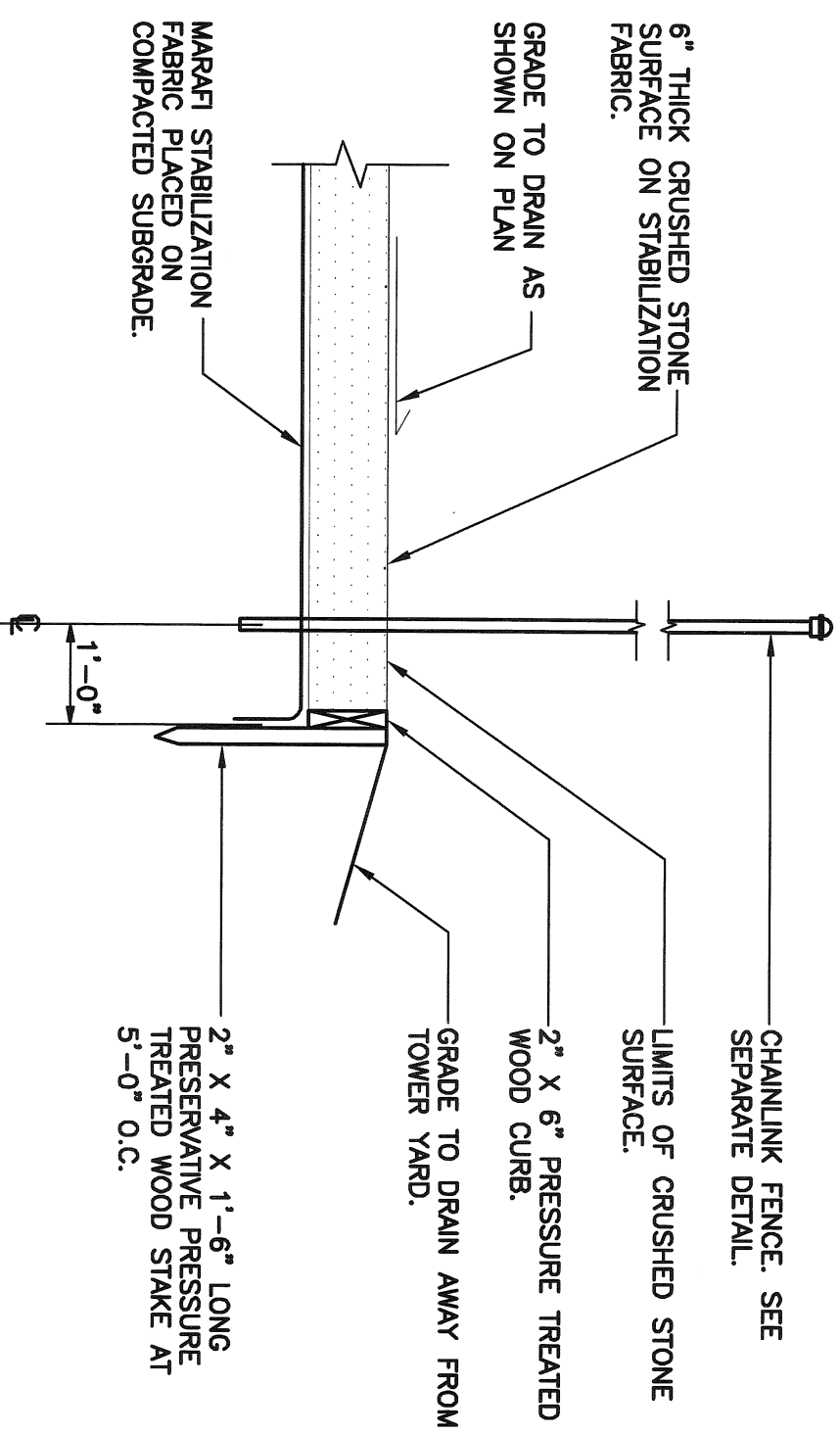


NOTE:  
1. PROVIDE 3/4" PRESSURE TREATED PLYWOOD PAINTED BATTLESHIP GREY ON ALL SIDES (TWO COATS) AND COVERED BY A GALV. STEEL OR PVC DRIP CAP.  
2. CONTRACTOR TO MAKE PROVISIONS FOR MOUNTING ELECTRICAL PANELBOARD AND GENERATOR PLUG ON ONE SIDE WITH OPPOSITE FOR TELCO CABINET.

**4A WOVEN WIRE SWING GATE-DOUBLE**  
C-4 NOT TO SCALE



**5 COMPOUND SURFACING DETAIL**  
C-4 NOT TO SCALE



REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
2	10/05/12	DMD	CFC	REVISED D&M - PER CSC INTERROGATORIES
1	08/31/12	DMD	CFC	ISSUED FOR D&M
0	08/17/12	DMD	CFC	ISSUED FOR D&M - CLIENT REVIEW

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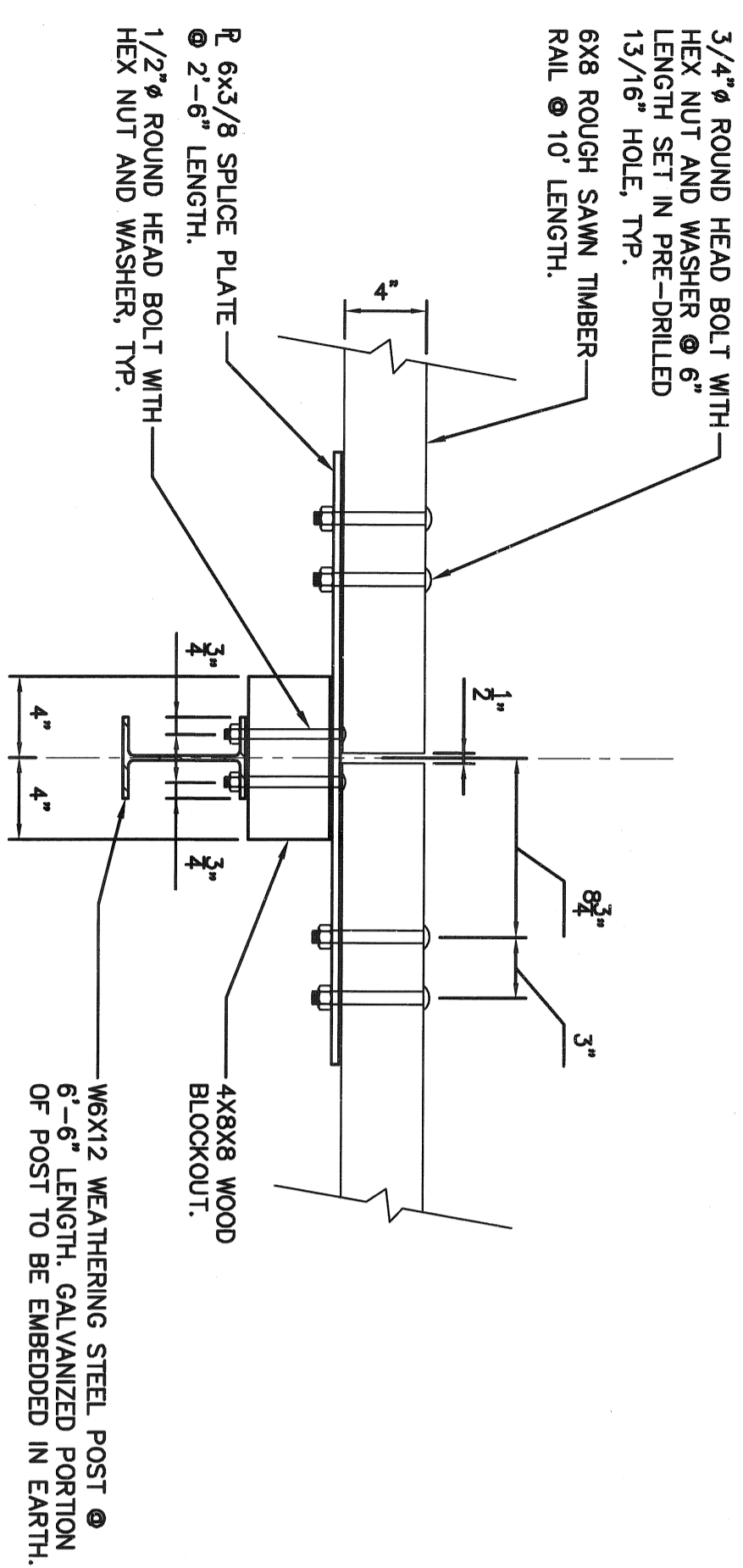
Cellco Partnership d/b/a Verizon Wireless  
WIRELESS COMMUNICATIONS FACILITY  
**CORNWALL, CT**  
16 BELL ROAD EXTENSION  
CORNWALL, CT 06754

SITE DETAILS  
DATE: 08/17/12  
SCALE: AS NOTED  
JOB NO.: 08168

**C-4**

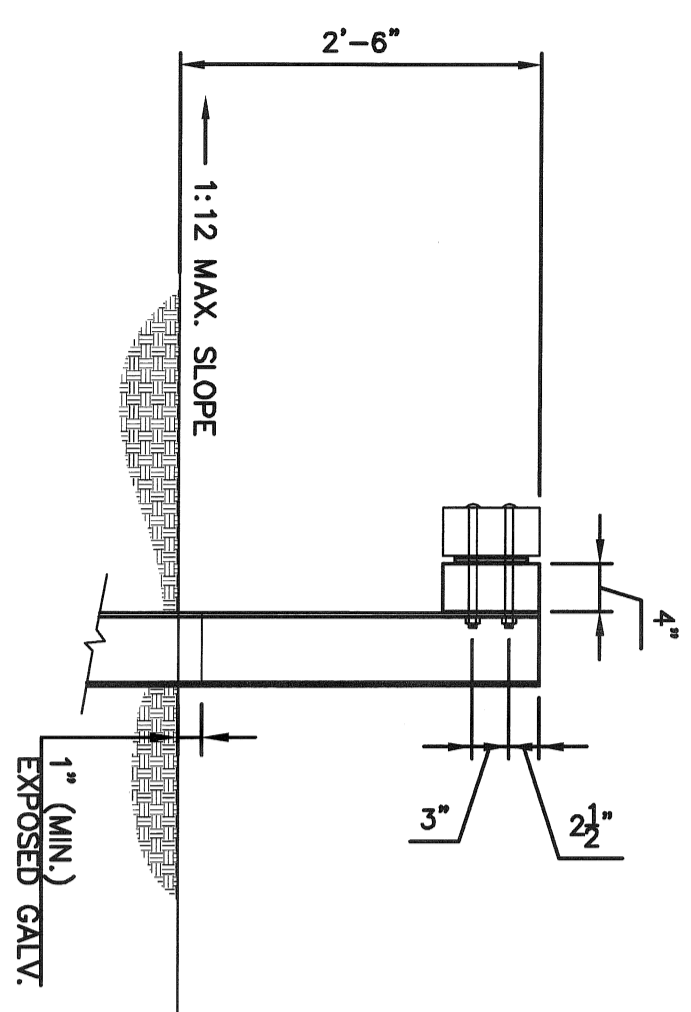
Sheet No. 10 of 12



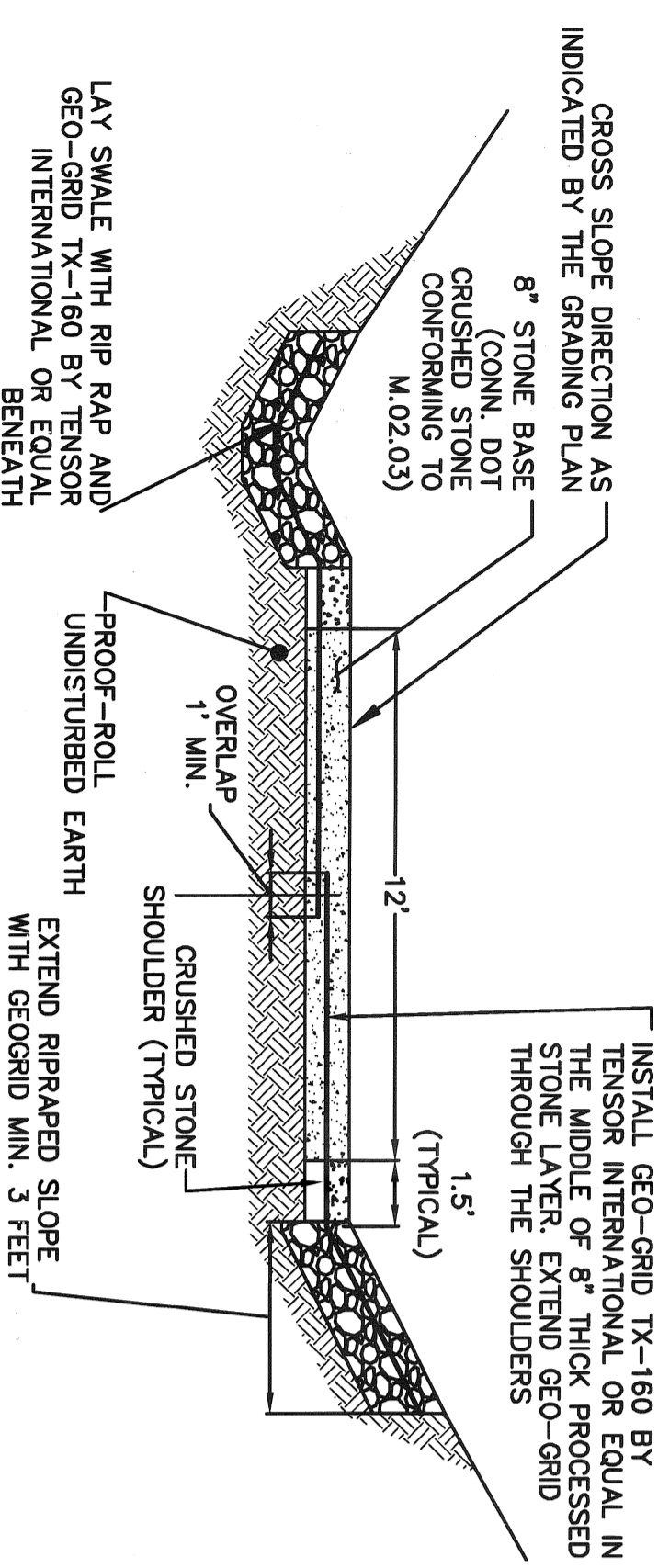


**NOTE:**

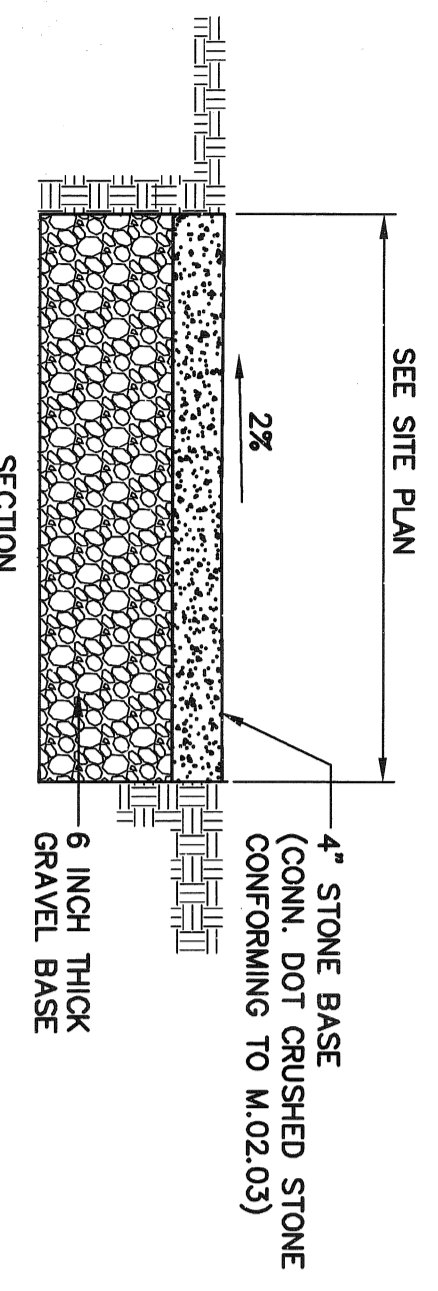
1. ALL TIMBER TO BE PRESSURE TREATED
2. ALL CONNECTION HARDWARE SHALL BE SUFFICIENTLY TIGHTENED TO ACCOMMODATE FOR SHRINKAGE OF THE WOOD ELEMENTS.
3. "BLUNT END" TREATMENT TO BE USED AT LOCATIONS WHERE GUIDE RAIL TERMINATES.



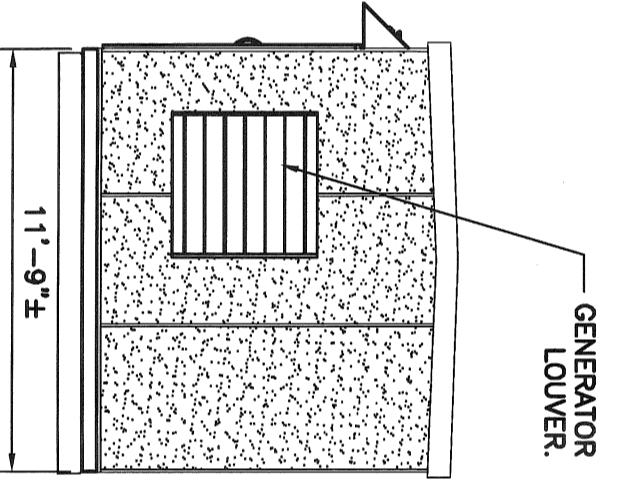
**1** **TIMBER GUIDE RAIL**  
C-5 NOT TO SCALE



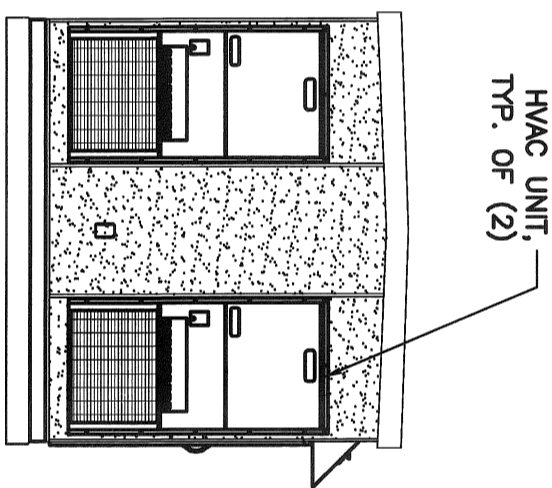
**2** **REINFORCED PROCESSED STONE ACCESS DRIVEWAY**  
C-5 NOT TO SCALE



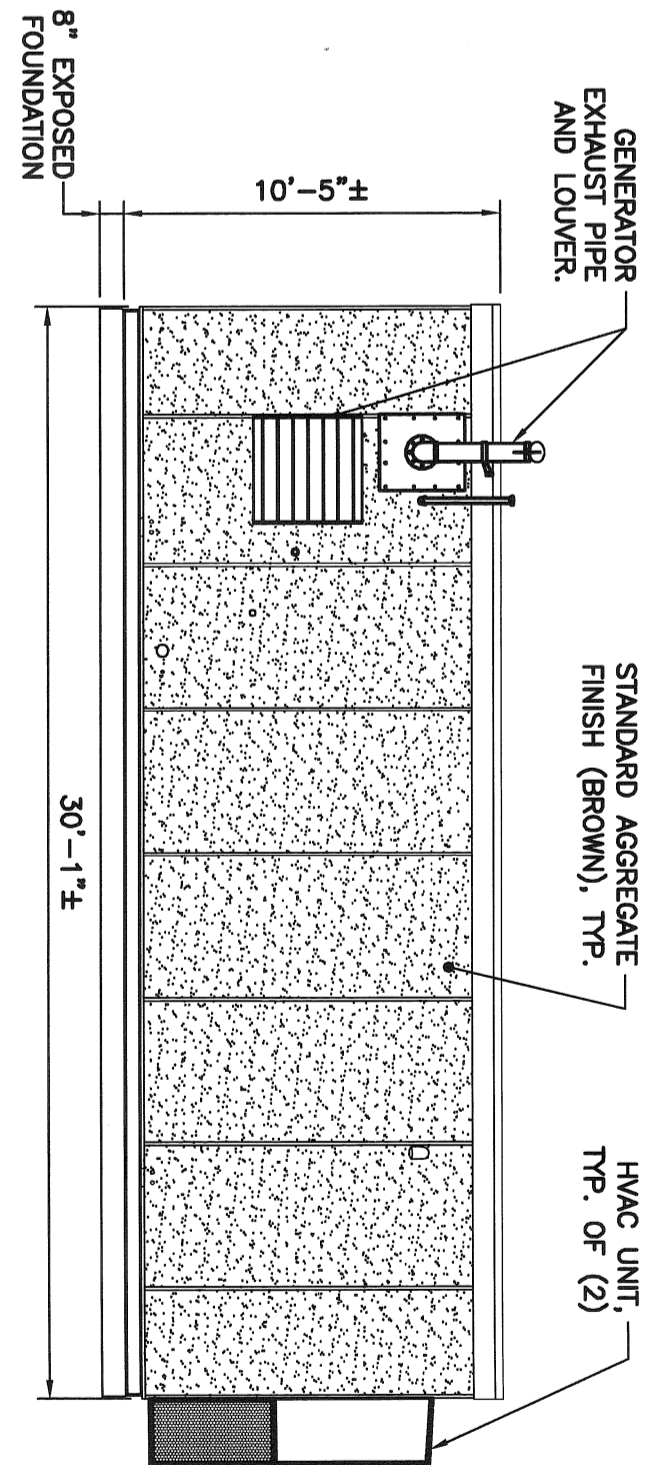
**3** **GRAVEL SURFACE PARKING AREA AND ACCESS DRIVE**  
C-5 NOT TO SCALE



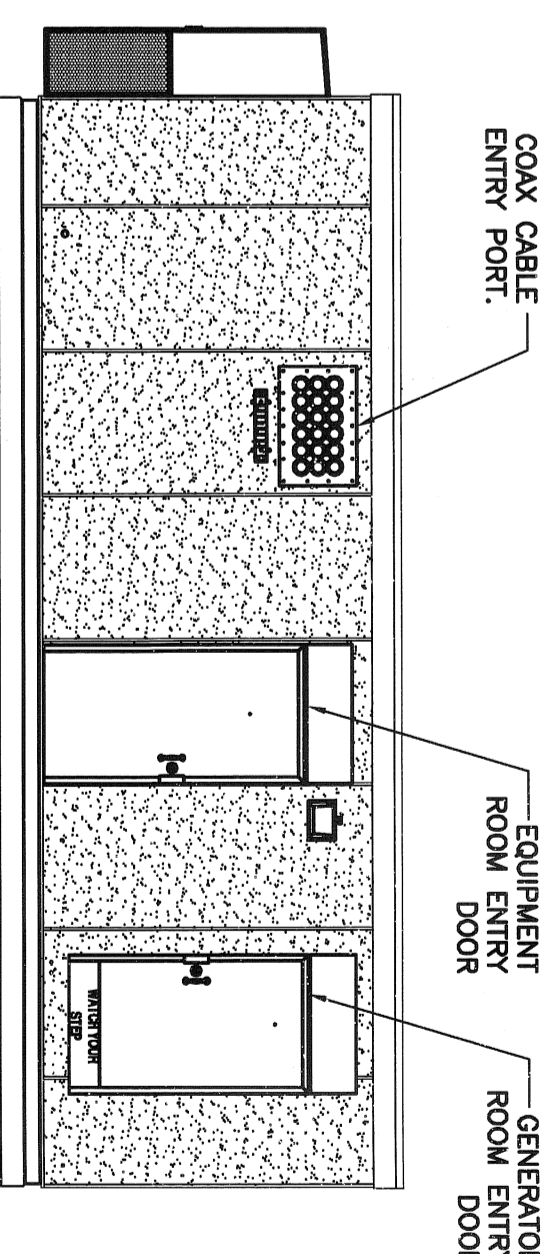
**4** **EASTERN SHELTER ELEVATION**  
C-5 SCALE: 3/16" = 1'-0"



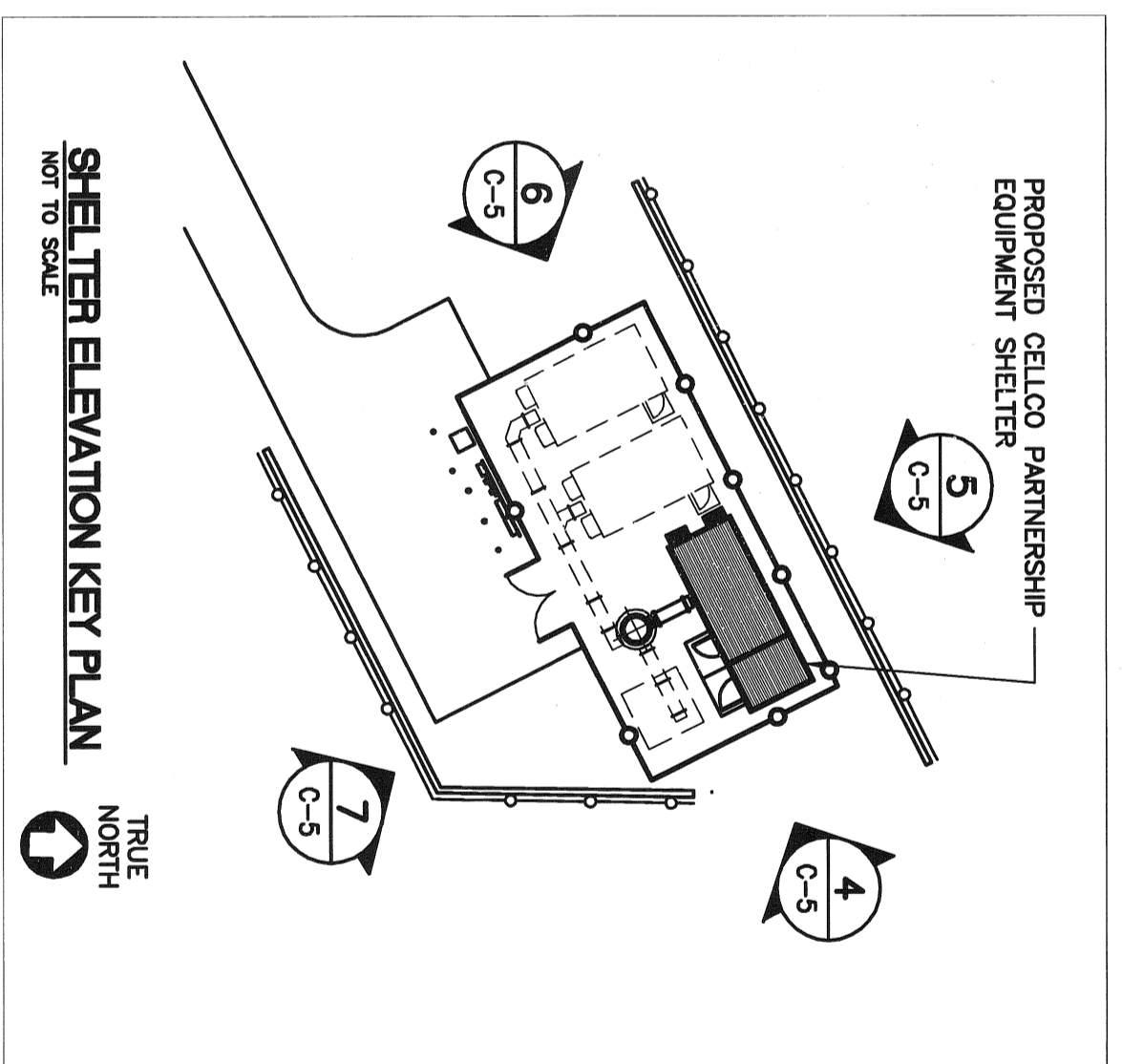
**6** **WESTERN SHELTER ELEVATION**  
C-5 SCALE: 3/16" = 1'-0"



**5** **NORTHERN SHELTER ELEVATION**  
C-5 SCALE: 3/16" = 1'-0"

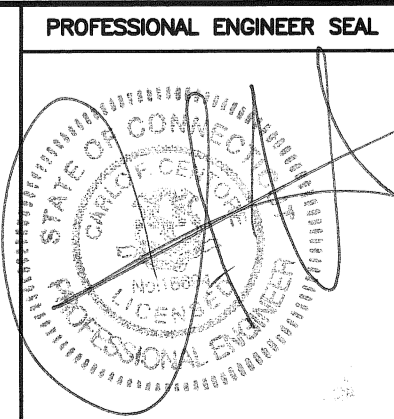


**7** **SOUTHERN SHELTER ELEVATION**  
C-5 SCALE: 3/16" = 1'-0"



**SHELTER ELEVATION KEY PLAN**  
C-5 NOT TO SCALE

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
2	10/05/12	DMD	CFC	REVISED D&M - PER CSC INTERROGATORIES
1	08/31/12	DMD	CFC	ISSUED FOR D&M
0	08/17/12	DMD	CFC	ISSUED FOR D&M - CLIENT REVIEW



Cellco Partnership  
d.b.a. verizon wireless

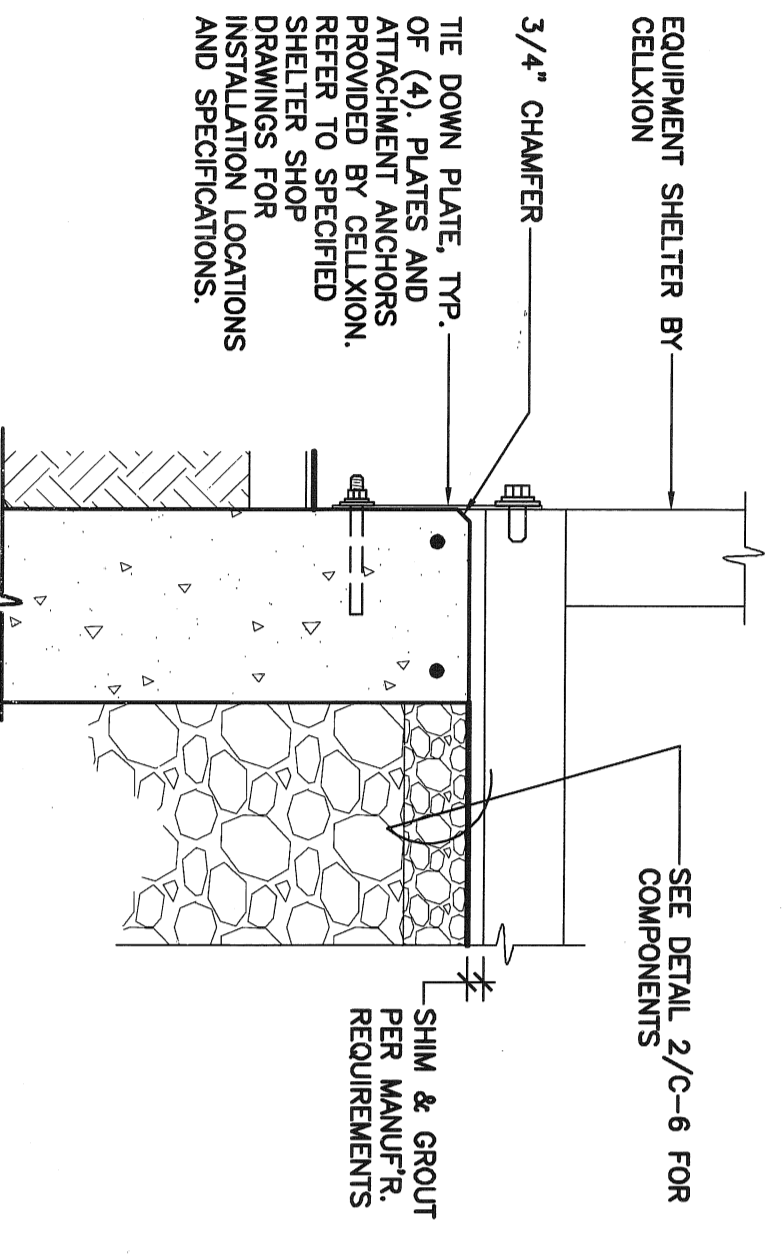
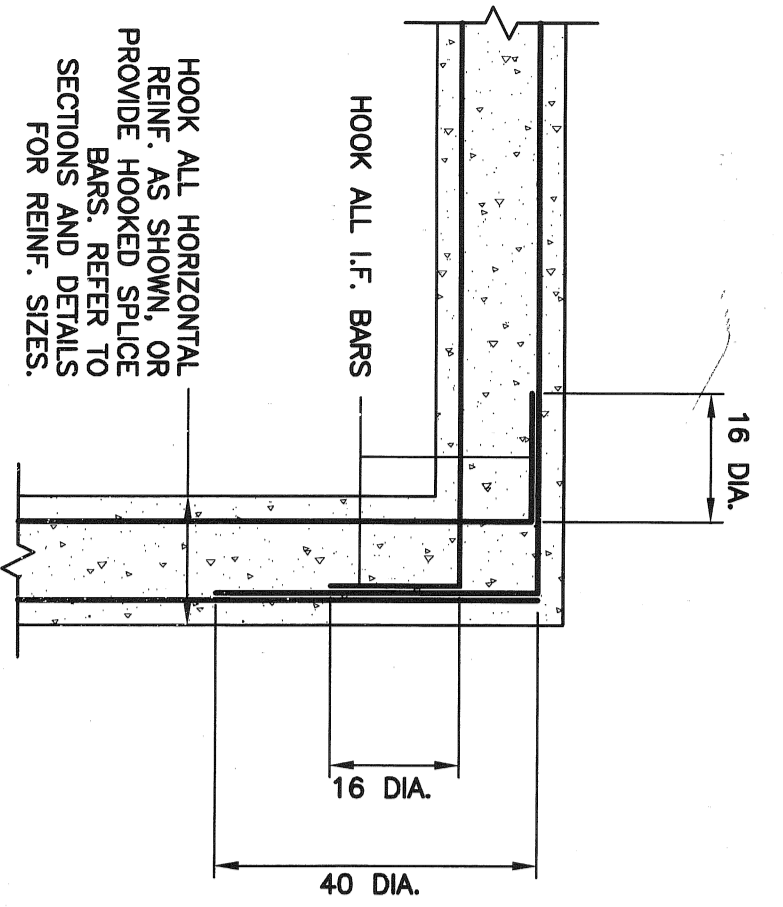
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WIRELESS COMMUNICATIONS FACILITY  
**CORNWALL, CT**  
16 BELL ROAD EXTENSION  
CORNWALL, CT 06754

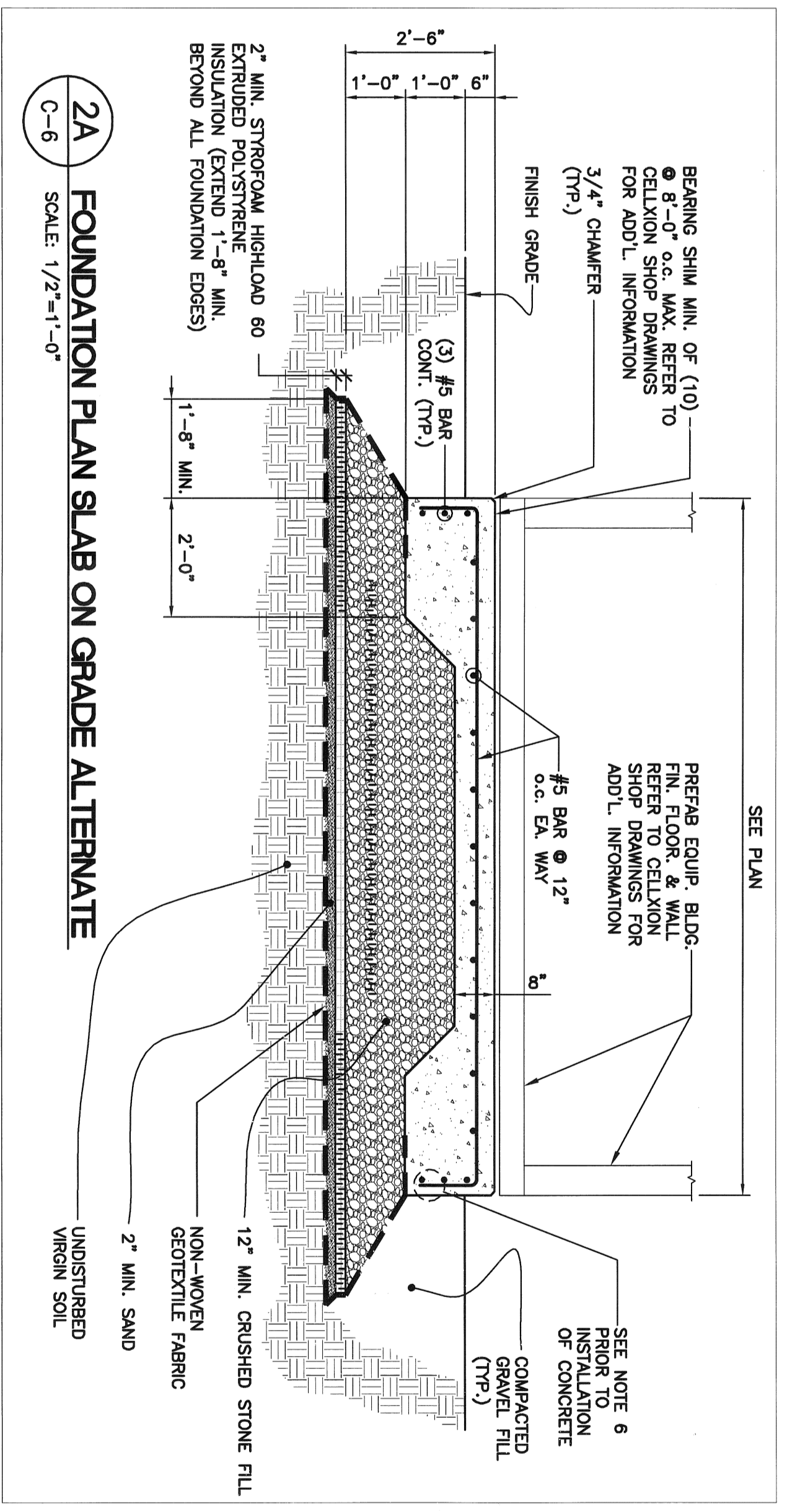
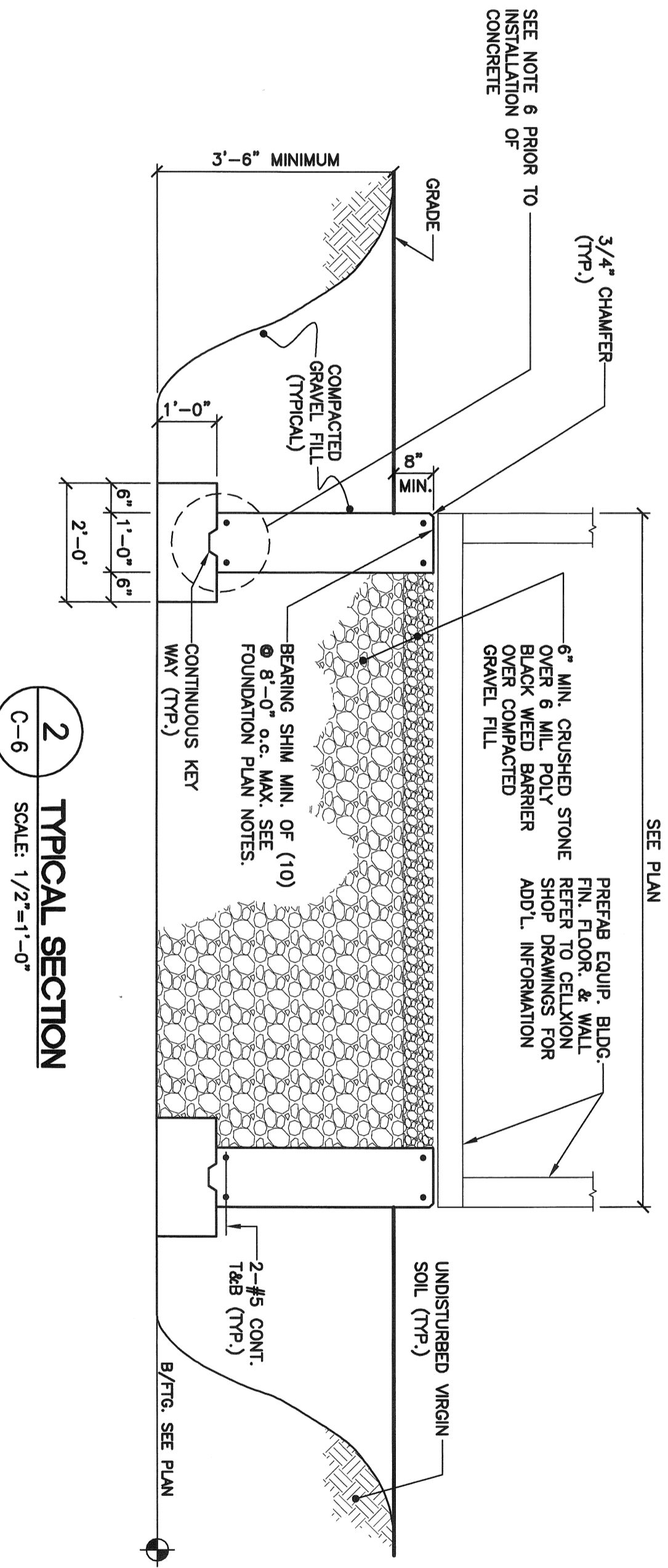
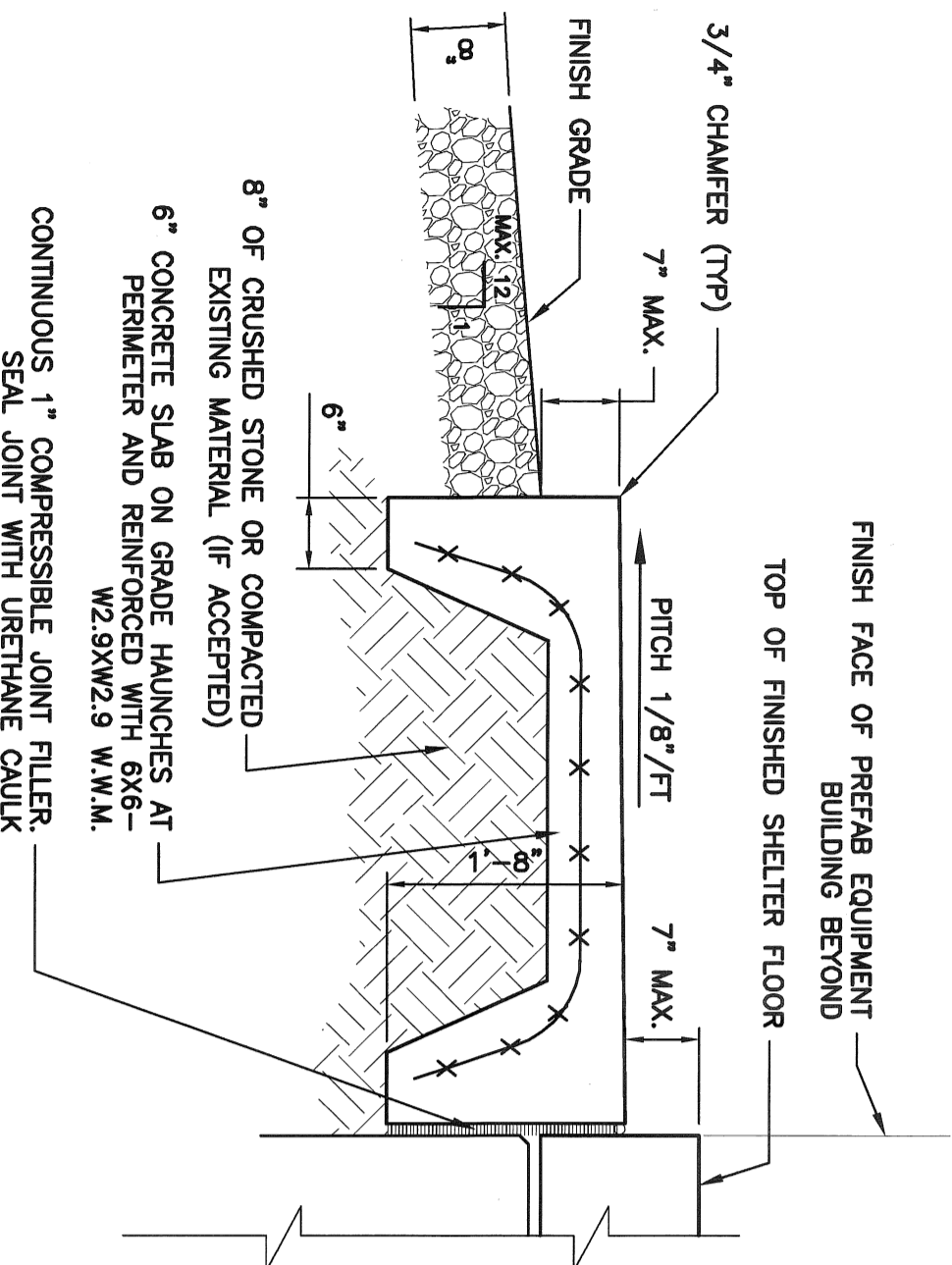
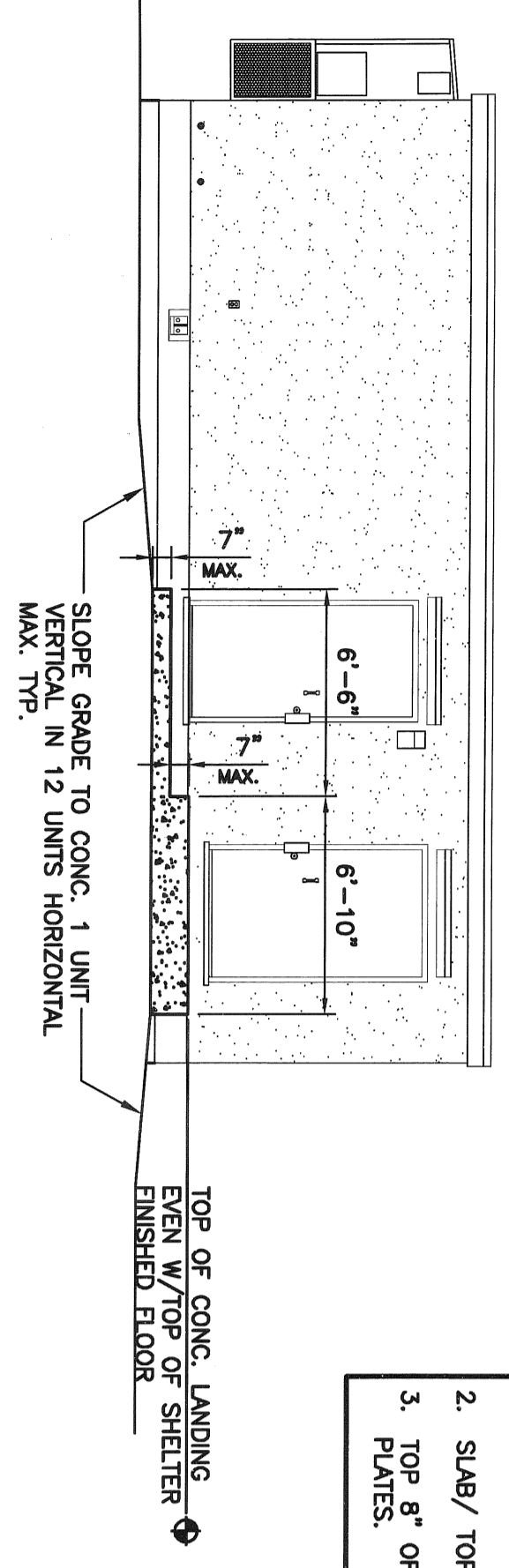
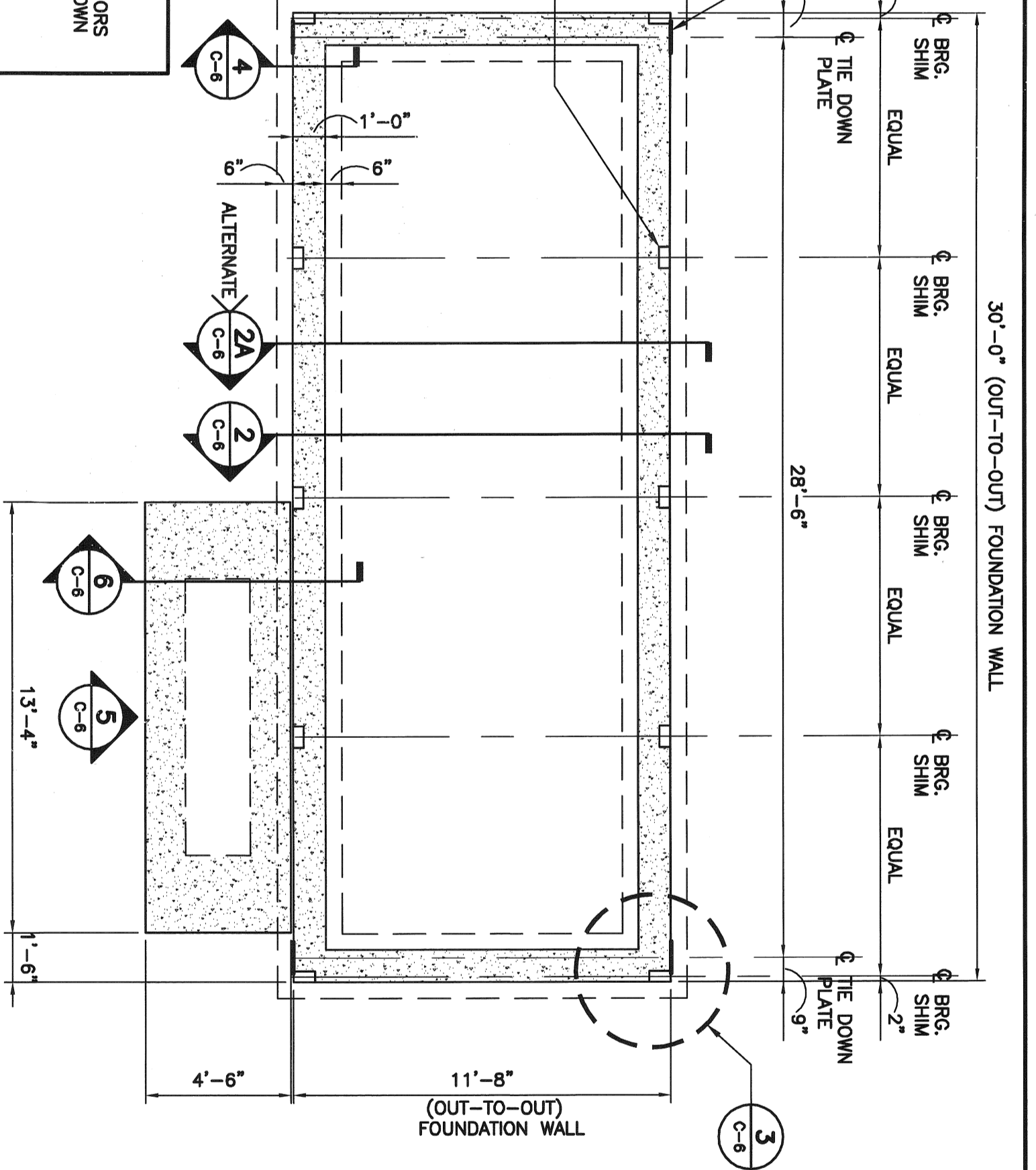
DATE: 08/17/12  
SCALE: AS NOTED  
JOB NO. 08168

MISC. SITE DETAILS AND SHELTER ELEVATIONS





- NOTES:**
1. BEARING SHIMS, THE-DOWN PLATES AND ASSOCIATED INSTALLATION ANCHORS PROVIDED BY CELLXON. CONTRACTOR SHALL VERIFY ALL SHIM & THE-DOWN FOUNDATION WORK.
  2. SLAB/ TOP OF WALL TOLERANCE IS 1/4".
  3. TOP 8" OF FOUNDATION SIDES MUST BE FORMED FLAT TO ACCEPT THE-DOWN PLATES.



- FOUNDATION NOTES:**
1. IF ANY FIELD CONDITIONS EXIST WHICH PRECLUDE COMPLIANCE WITH THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY AFFECTED WORK.
  2. DIMENSIONS AND DETAILS SHALL BE CHECKED AGAINST THE PRE MANUFACTURED EQUIPMENT BUILDING SHOP DRAWINGS.
  3. THE CONTRACTOR SHALL VERIFY THE SIZE AND LOCATION OF ALL OPENINGS, SLEEVES AND ANCHOR BOLTS AS REQUIRED BY ALL TRADES.
  4. REFER TO DRAWING T1 FOR ADDITIONAL NOTES AND REQUIREMENTS.
- SITE NOTES:**
1. THE CONTRACTOR SHALL CALL UTILITIES PRIOR TO THE START OF CONSTRUCTION.
  2. ACTIVE EXISTING UTILITIES, WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY UNEXPECTED UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
  3. ALL RUBBISH, STUMPS, DEBRIS, STOKS, STONES AND OTHER REFUSE SHALL BE REMOVED OFF SITE AND BE LEGALLY DISPOSED. AT NO ADDITIONAL COST.
  4. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE EQUIPMENT AND TOWER AREAS.
  5. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN ANY FILL OR EMBANKMENT.
  6. THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
  7. THE AREAS OF THE COMPOUND DISTURBED BY THE WORK SHALL BE RETURNED TO THEIR ORIGINAL CONDITION.
  8. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
  9. IF ANY FIELD CONDITIONS EXIST WHICH PRECLUDE COMPLIANCE WITH THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL PROCEED WITH AFFECTED WORK AFTER CONSULT IS Satisfactorily Resolved.
  10. DIMENSIONS AND DETAILS SHALL BE CHECKED AGAINST THE PRE MANUFACTURED EQUIPMENT BUILDING SHOP DRAWINGS.
  11. THE CONTRACTOR SHALL VERIFY AND COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS, SLEEVES AND ANCHOR BOLTS AS REQUIRED BY ALL TRADES.

**COMPACTED GRAVEL FILL:**

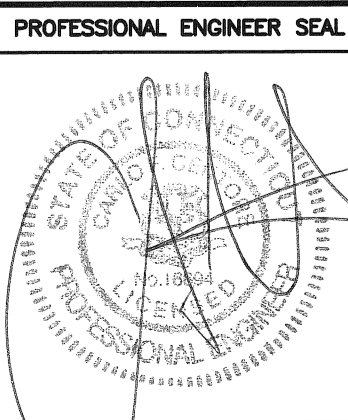
1. COMPACTED GRAVEL FILL SHALL BE FURNISHED AND PLACED AS A FOUNDATION FOR STRUCTURES, WHERE SHOWN ON THE CONTRACT DRAWINGS OR DIRECTED BY THE ENGINEER.
2. GRAVEL SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE M.02.02 OF SURFACE PROTECTIVE MATERIALS USED TO PREVENT THE GRAVEL FROM FREEZING MUST HAVE THE APPROVAL OF THE ENGINEER. THE LARGEST STONE SIZE SHALL BE 3-1/2 INCHES.
3. SAMPLES OF THE MATERIAL TO BE USED SHALL BE DELIVERED TO THE JOB SITE 5 DAYS PRIOR TO ITS INTENDED USE SO IT MAY BE TESTED FOR APPROVAL.
4. AFTER ALL EXCAVATION HAS BEEN COMPLETED, GRAVEL SHALL BE DEPOSITED IN LAYERS NOT EXCEEDING EIGHT (8) INCHES IN DEPTH OVER THE AREAS. IN EXCEPTIONAL CASES, THE ENGINEER MAY PERMIT THE FIRST LAYER TO BE THICKER. LAYERS OF 10 INCHES OR MORE SHALL BE LIMITED TO ONE LAYER OF SUBGRADE. THE APPROVED AREA OF EACH LAYER SHALL BE COMPACTED BY USE OF APPROVED VIBRATORY, PNEUMATIC-TIRED OR TREAD-TYPE COMPACTOR EQUIPMENT. COMPACTOR SHALL BE CONTINUED UNTIL THE DRY DENSITY OVER THE ENTIRE AREA OF EACH LAYER IS NOT LESS THAN 95 PERCENT OF THE MAXIMUM DRY DENSITY ACHIEVED BY MASHO 1-99 METHOD OF THE MOISTURE CONTENT OF THE GRAVEL. THE MOISTURE CONTENT OF THE GRAVEL SHALL BE DETERMINED BY MASHO 1-99 METHOD OF THE MOISTURE CONTENT OF THE GRAVEL. THE GRAVEL SHALL BE MOISTENED TO THE MOISTURE CONTENT UNTIL THE SPECIFIED COMPACTION IS ACHIEVED FOR THE PREVIOUS LAYER. IF NECESSARY TO OBTAIN THE REQUIRED COMPACTION, WATER SHALL BE ADDED AND GENTLE PLODDING PERFORMED, IF AUTHORIZED. COMPACTED GRAVEL FILL SHALL BE PREVENTED FROM FREEZING BY USE OF APPROVED ADMIXTURES OR BY USE OF APPROVED PROTECTIVE MATERIALS ON THE SURFACE, OR BOTH.

**CONCRETE AND REINFORCING STEEL NOTES:**

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318.
2. ALL CONCRETE SHALL BE NORMAL WEIGHT, 6% AIR ENTRAINMENT WITH A MAXIMUM SLUMP OF 4". AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, DEFORMED BARS, WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WELDED STEEL WIRE FABRIC. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD UNLESS OTHERWISE INDICATED.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS OTHERWISE NOTED ON THE DRAWINGS:  
CONCRETE CAST AGAINST EARTH..... 3 IN.  
CONCRETE EXPOSED TO EARTH OR WEATHER..... 2 IN.  
#5 AND SMALLER & WWF..... 1 1/2 IN.  
#6 AND SMALLER & WWF..... 1 1/2 IN.  
THE GROUND..... 3/4 IN.  
SLAB AND WALL..... 1 1/2 IN.
5. ALL EXPOSED EDGES OF CONCRETE TO RECEIVE A 3/4" CHAMFER IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
6. CONCRETE EQUIPMENT PAD TO RECEIVE A BRUSHED FINISH.
7. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHORS, SHALL BE PER MANUFACTURER'S RECOMMENDATIONS. REINFORCING ANCHORS SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT DURING DRILLING WITHOUT PRIOR REVIEW BY THE ENGINEER.

DESIGNED BY:	CFC
DRAWN BY:	TSP
CHK'D BY:	DMD

REV.	DATE	DRAWN BY	CHK'D BY	DESCRIPTION
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DATE: 08/17/12  
SCALE: AS NOTED  
JOB NO.: 08168  
**C-6**  
SHELTER FOUNDATION PLAN, DETAILS & NOTES  
Sheet No. 12 of 12