# TAB 1

# PEQUABUCK GOLF CLUB SITE

**1191 Terryville Road**
**Bristol, Connecticut**

Description of Proposed Cell Site

Cellco Partnership d/b/a Verizon Wireless
99 East River Drive
East Hartford, CT 06108

TABLE OF CONTENTS

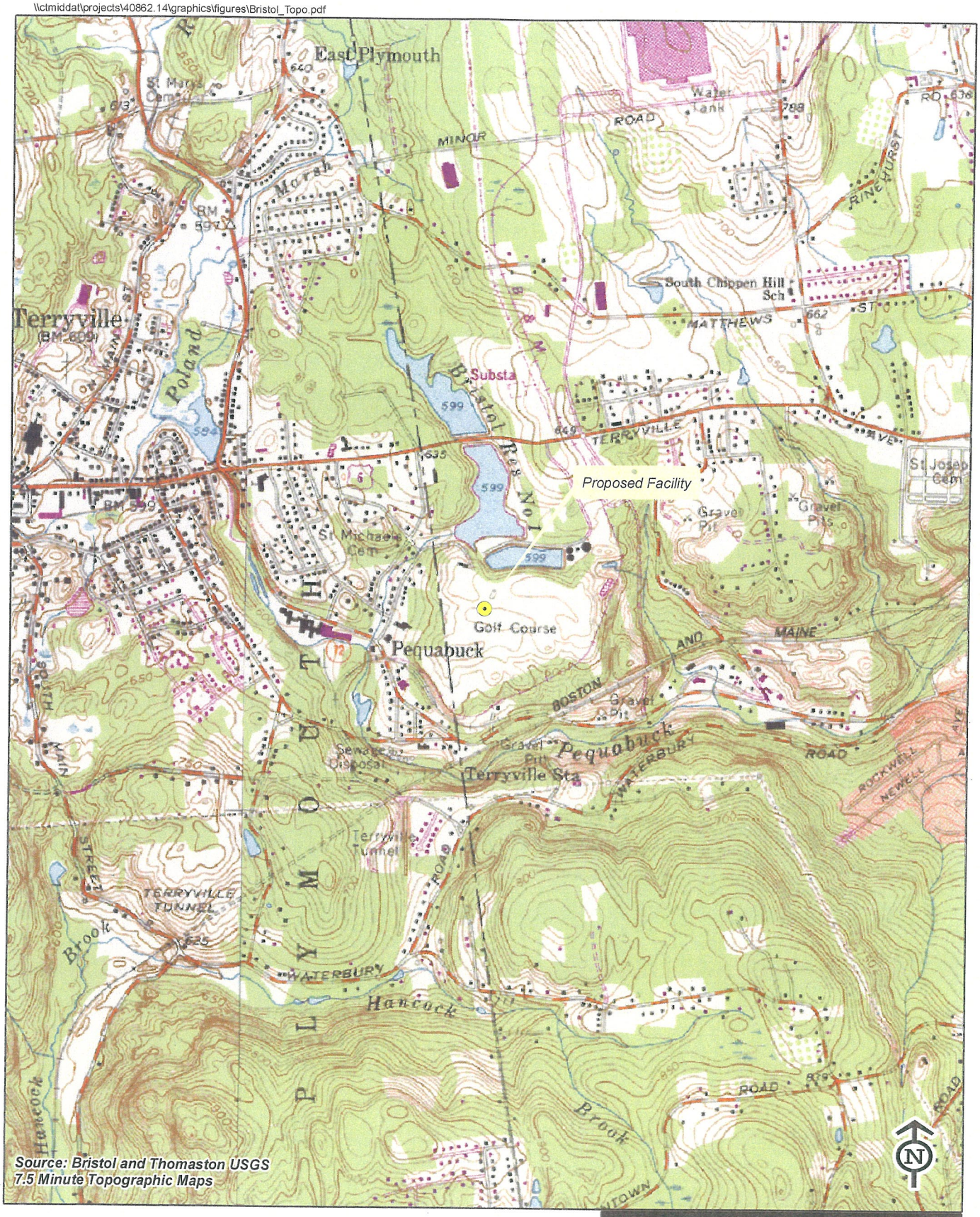

| SECTION | PAGE |
|---|---|
| GENERAL CELL SITE DESCRIPTION | 1 |
| U.S.G.S. TOPOGRAPHIC MAP | 2 |
| AERIAL PHOTOGRAPH | 3 |
| SITE EVALUATION REPORT | 4 |
| FACILITIES AND EQUIPMENT SPECIFICATION | 6 |
| ENVIRONMENTAL ASSESSMENT STATEMENT | 7 |
| PROJECT PLANS | 9 |

SITE NAME: PEQUABUCK GOLF CLUB – 1191 Terryville Road, Bristol, CT

GENERAL CELL SITE DESCRIPTION

The proposed cell site would be located within an approximately 55' x 70' leased area within an approximately 65-acre parcel owned by Pequabuck Golf Club of Bristol, Inc. at 1191 Terryville Road in Bristol (the "Bristol West Facility"). The Bristol West Facility would consist of a single 120-foot monopole telecommunications towers disguised as a flagpole with internally mounted antennas and a 12' x 30' equipment shelter. Cellco equipment and back-up generator would be located inside the equipment shelter. Vehicle access to the site would extend from School Street over the existing driveway and parking area, a distance of approximately 1,100 feet. Utility service would extend from existing service on the Golf Club's property.

\\ctmiddat\projects\40862.14\graphics\figures\Bristol_Topo.pdf




Vanasse Hangen Brustlin, Inc.

1,000 500 0 1,000 Feet

Quadrangle Location

**USGS Topographic Base Map**
**Proposed Verizon Facility**
**Bristol West**
**1191 Terryville Road**
**Bristol, Connecticut**

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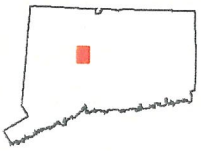
Vanasse Hangen Brustlin, Inc.

400 200 0 400 Feet



Quadrangle Location

**2004 Aerial Photograph**
**Proposed Verizon Facility**
**Bristol West**
**1191 Terryville Road**
**Bristol, Connecticut**

SITE EVALUATION REPORT

SITE NAME: PEQUABUCK GOLF CLUB – 1191 Terryville Road, Bristol, CT

I. LOCATION

A. COORDINATES: 41°-40'-27.43" N 72°-59'-17.13" W

B. GROUND ELEVATION: Approximately 638 feet AMSL

C. USGS MAP: Bristol and Thomaston, CT

D. SITE ADDRESS: 1191 Terryville Road, Bristol, CT

E. ZONING WITHIN 1/4 MILE OF SITE: Land within 1/4 mile of the cell site is zoned R-40 residential and I Industrial.

II. DESCRIPTION

A. SITE SIZE: 55' x 70' Leased Area

B. LESSOR'S PARCEL: 65-acres

C. TOWER TYPE/HEIGHT: 120' Monopole (Flagpole) Tower – Internally mounted antennas.

D. SITE TOPOGRAPHY AND SURFACE: The topography in the area is relatively flat with a gentle slope from east to west. Very limited clearing and minimal grading of the leased area will be required to establish a level site compound. The site has been situated so as to minimize, to the extent possible, the clearing of trees.

E. SURROUNDING TERRAIN, VEGETATION, WETLANDS, OR WATER: The tower is located south of three existing maintenance barns in the center of the Pequabuck Golf Club property. No wetland areas exist within or near the site compound or the access driveway. The closest wetland/watercourse is located approximately 460 feet north of the facility compound.

F. LAND USE WITHIN 1/4 MILE OF SITE: The proposed site is surrounded by Bristol Water Company reservoirs to the north and east, industrial land to the south and west, and residential property to the north.

III. FACILITIES

A. POWER COMPANY: Connecticut Light and Power

B. POWER PROXIMITY TO SITE: Approximately 100 feet to the north.

C. TELEPHONE COMPANY: SBC

D. PHONE SERVICE PROXIMITY: Same as power.

E. VEHICLE ACCESS TO SITE: Vehicle access to the site would extend from School Street over existing driveways and parking areas a distance of approximately 1,100 feet.

F. OBSTRUCTION: None

G. CLEARING AND FILL REQUIRED: Clearing and grading would be required for construction of the towers, site compound and access drive. Detailed construction plans would be developed after approval of the site by the Siting Council.

IV. LEGAL

A. PURCHASE [ ] LEASE [X]

B. OWNER: Pequabuck Golf Club of Bristol, Inc.

C. ADDRESS: 1191 Terryville Road, Bristol, CT 06010

D. DEED ON FILE AT: Town of Greenwich, CT Land Records

Vol. 833 Page 953

FACILITIES AND EQUIPMENT SPECIFICATION
(NEW TOWER & EQUIPMENT BUILDING)

SITE NAME: PEQUABUCK GOLF CLUB – 1191 Terryville Road, Bristol, CT

I. TOWER SPECIFICATIONS:

A. MANUFACTURER: To be determined

B. TYPE: Flagpole tower; self-supporting monopole; internally mounted antennas

C. TOWER HEIGHT: 120' DIMENSIONS: Approx. 48" base

Approx. 30" top

II. TOWER LOADING:

A. VERIZON EQUIPMENT:

1. Antennas (6)
   a. Three (3) Model - BXA-80063/8 (94.7" x 11.2" x 4.5") - Cellular
      Two (2) Model - BXA-185085/12 (72.44" x 6.06" x 4.13) – PCS
      One (1) Model - BXA-185063/12 (72.44" x 6.06" x 4.13) - PCS
   b. Antenna Centerline 117' (PCS) and 107' (Cellular)

2. GPS Antenna: Mounted on equipment shelter

3. Transmission Lines:
   a. MFG/Model: Andrews LDF5-50A
   b. Size: 1 5/8"

III. ENGINEERING ANALYSIS AND CERTIFICATION:

The towers will be designed in accordance with Electronic Industries Association Standard EIA/TIA-222-E "Structural Standards for Steel Antenna Towers and Antenna Support Structures." The foundation designs would be based on soil conditions at the site. Details for the towers and foundation designs will be provided as a part of the final D&M Plan.

# ENVIRONMENTAL ASSESSMENT STATEMENT

SITE NAME: PEQUABUCK GOLF CLUB – 1191 Terryville Road, Bristol, CT

## I. PHYSICAL IMPACT

### A. WATER FLOW AND QUALITY

No water flow and/or water quality changes are anticipated as a result of the construction or operation of the facility. There are no lakes, ponds, rivers, streams, wetlands or other regulated bodies of water located on the property to be used for the tower or equipment building. The equipment used will not discharge any pollutants to area surface or groundwater systems.

### B. AIR QUALITY

Under ordinary operating conditions, the equipment that would be used at the site would emit no air pollutants of any kind. For limited periods during power outages and periodically for maintenance purposes, minor levels of emissions from the on-site generator would result.

Pursuant to R.C.S.A. § 22a-174-3, the on-site emergency back-up generator proposed as a part of this application would require the issuance of a Connecticut Department of Environmental Protection Air Bureau permit for potential emissions. The operator of the generator would obtain this permit prior to installing the generator at the approved cell site.

### C. LAND

Minimal clearing and grading of the tower compound would be required. The remaining land of the Lessor would remain unchanged by the construction and operation of the cell site.

### D. NOISE

The equipment to be in operation at the site after construction would emit no noise of any kind, except for operation of the installed heating, air conditioning and ventilation systems and occasional operation of a back-up generator which would be run during power failures and periodically for maintenance purposes. Some noise is anticipated during cell site construction, which is expected to take approximately four to six weeks.

E. POWER DENSITY

The worst-case calculation of power density for Cellco's cellular and PCS antennas at the Bristol West Facility would be 9.58% of the Standard for Cellco's cellular antennas and 1.55% of that Standard for Cellco's PCS antennas.

F. VISIBILITY

See Visual Resource Evaluation Report included as Attachment 10.

# Cellco Partnership

# d.b.a. verizon wireless

# PROPOSED WIRELESS COMMUNICATIONS FACILITY

## BRISTOL WEST
## 1191 TERRYVILLE AVENUE
## BRISTOL, CT

### SITE INFORMATION

THE GENERAL SCOPE OF WORK SHALL INCLUDE:

1. THE CONSTRUCTION OF A 49'x55' FENCED WIRELESS COMMUNICATIONS COMPOUND WITHIN A 55'x70' LEASE AREA.
2. A TOTAL OF SIX (6) DIRECTIONAL PANEL ANTENNAS ARE PROPOSED TO BE MOUNTED WITHIN A PROPOSED 120' RF TRANSPARENT FLAGPOLE WITH RAD CENTER ELEVATIONS OF 118'-0" AND 108'-0"+/-.
3. POWER AND TELCO UTILITIES SHALL BE ROUTED UNDERGROUND FROM EXISTING RESPECTIVE DEMARCS TO THE PROPOSED UTILITY BACKBOARD LOCATED ADJACENT TO FENCED COMPOUND. UTILITIES WILL BE ROUTED FROM UTILITY BACKBOARD TO THE PROPOSED NOMINAL 12'x30' WIRELESS EQUIPMENT SHELTER LOCATED WITHIN THE COMPOUND.
4. FINAL DESIGN FOR TOWER AND ANTENNA MOUNTS SHALL BE INCLUDED IN THE FINAL CONSTRUCTION DOCUMENTS.
5. THE PROPOSED WIRELESS FACILITY INSTALLATION WILL BE DESIGNED IN ACCORDANCE WITH THE 2003 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2005 CONNECTICUT SUPPLEMENT.
6. THERE WILL NOT BE ANY LIGHTING UNLESS REQUIRED BY THE FCC OR THE FAA.
7. THERE WILL NOT BE ANY SIGNS OR ADVERTISING ON THE ANTENNAS OR EQUIPMENT.
8. FOR ADDITIONAL NOTES AND DETAILS REFER TO THE ACCOMPANYING DRAWINGS.

### GENERAL NOTES

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

### SITE DIRECTIONS

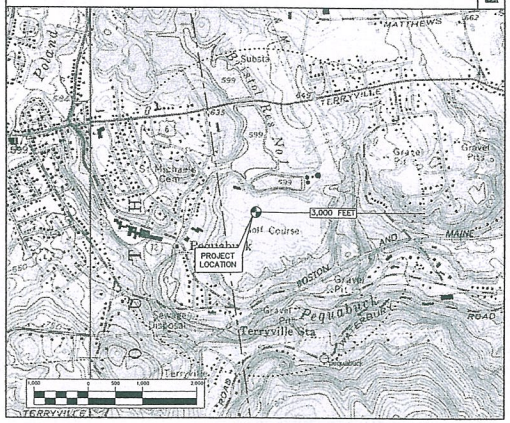
FROM: 99 EAST RIVER DRIVE, EAST HARTFORD, CONNECTICUT

TO: 1191 TERRYVILLE AVENUE, BRISTOL, CONNECTICUT

1: TURN LEFT ONTO EAST RIVER DRIVE. 0.1 MILES
2: TURN LEFT (WEST) ONTO US-44. 0.2 MILES
3: TAKE RAMP ONTO I-84 W. 13 MILES
4: MERGE ONTO CT-72 W VIA EXIT 33 TOWARD EXIT 33 TOWARD PLAINVILLE/BRISTOL 2.8 MILES
5: TURN RIGHT ONTO CT-72/FORESTVILLE AVE. CONTINUE TO FOLLOW CT-72 W. 2.0 MILES
6: TURN RIGHT ONTO MEMORIAL BLVD/CT-72 0.2 MILES
7: TURN SLIGHT RIGHT ONTO CT-72/RIVERSIDE AVE. CONTINUE TO FOLLOW RIVERSIDE AVE 1.0 MILES
8: TURN RIGHT ONTO N MAIN STREET. 0.6 MILES
9: TURN LEFT ONTO US-6/CT-69/NORTH STREET. CONTINUE TO FOLLOW US-6. 2.2 MILES
10: END AT 1191 TERRYVILLE AVE.

### VICINITY MAP

SCALE: 1" = 1000'




### PROJECT SUMMARY

| | |
|---|---|
| SITE NAME: | BRISTOL WEST |
| SITE ADDRESS: | 1191 TERRYVILLE AVENUE<br>BRISTOL, CT 06010 |
| PROPERTY OWNER: | PEQUABUCK GOLF CLUB OF BRISTOL<br>C/O LAURENCE ZAHNKE<br>P.O. BOX 218 PEQUABUCK, CT 06781 |
| LEASOR: | PEQUABUCK GOLF CLUB OF BRISTOL |
| LESSEE: | CELLCO PARTNERSHIP<br>99 EAST RIVER DR.<br>EAST HARTFORD, CT 06108 |
| APPLICANT: | CELLCO PARTNERSHIP<br>99 EAST RIVER DR.<br>EAST HARTFORD, CT 06108 |
| CONTACT PERSON: | SANDY CARTER<br>CELLCO PARTNERSHIP<br>(860) 803-8219 |
| TOWER COORDINATES: | LATITUDE: 41°40'27.431"<br>LONGITUDE: 72°59'17.134"<br>GND ELEVATION: 634'± A.M.S.L.<br>COORDINATES ARE BASED ON FIELD SURVEY CONDUCTED BY MARTINEZ COUCH AND ASSOCIATES LLC, ON APRIL 14, 2006. |

### LEGEND

| SYMBOL | DESCRIPTION |
|---|---|
| | SECTION OR DETAIL NUMBER<br>SHEET WHERE DETAIL/SECTION OCCURS |
| 1 | ELEVATION NUMBER<br>SHEET WHERE ELEVATION OCCURS |

### SHEET INDEX

| SHT. NO. | DESCRIPTION | REV. NO. |
|---|---|---|
| T-1 | TITLE SHEET | 02 |
| | | |
| C-1 | SITE PLAN | 02 |
| C-1A | ABUTTERS MAP | 02 |
| C-2 | PARTIAL SITE PLAN AND ELEVATION | 02 |
| C-3 | EROSION CONTROL DETAILS AND NOTES | 02 |
| C-4 | SITE DETAILS | 02 |
| C-5 | SITE UTILITY DETAILS AND SHELTER ELEVATIONS | 02 |
| C-6 | EQUIP. SHELTER FOUNDATION DETAILS AND NOTES | 02 |
| | | |
| | | |

### REVISIONS

| | | |
|---|---|---|
| 00 | 05/17/06 | SITING COUNCIL-REVIEW |
| 01 | 05/19/06 | SITING COUNCIL-REVIEW |
| 02 | 05/31/06 | SITING COUNCIL |

Cellco Partnership
d.b.a. verizon wireless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Fax (203) 488-8587
Consulting Engineers - Project Management
Civil - Structural - Mechanical - Electrical


PROFESSIONAL ENGINEER SEAL

BRISTOL WEST

1191 TERRYVILLE AVE
BRISTOL, CT 06010

| | |
|---|---|
| PROJECT NO: | 05096 |
| DRAWN BY: | DMD |
| CHECKED BY: | CFC |
| SCALE: | AS NOTED |
| DATE: | 07/21/05 |

TITLE SHEET

T-1

DWG. 1 OF 8

SURVEY NOTES

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 ASSOCIATION OF LAND SURVEYORS, INC. ON SEPT. 26, 1996. IT IS DATA ACCUMULATION PLAN AND IS BASED UPON LIMITED FIELD DATA AND REFERENCE MAPS CONFORMING TO HORIZONTAL ACCURACY CLASS TYPE D AND IS INTENDED TO BE USED TO DEPICT A PROPOSED TELECOMMUNICATION SITE.

THE PROPERTY/BOUNDARY LINES DEPICTED HEREON ARE COMPILED FROM OTHER MAPS, DEEDS AND LIMITED FIELD SURVEY. THESE LINES ARE NOT TO BE CONSTRUED AS A BOUNDARY OPINION AND ARE SUBJECT TO CHANGE AS AN ACCURATE FIELD SURVEY MAY DISCLOSE. PROPERTY MAY BE SUBJECT TO ENCUMBRANCES, EASEMENTS, RIGHTS OF WAY AS A TITLE SEARCH REPORT MAY DISCLOSE.

VERTICAL DATUM IS BASED ON NGVD 29.

COORDINATES REFER TO NAD 83.

THE INTENTION OF THIS MAP IS TO SHOW THE LOCATION OF THE WIRELESS COMMUNICATIONS FACILITY TO BE CONSTRUCTED BY CINGULAR WIRELESS.

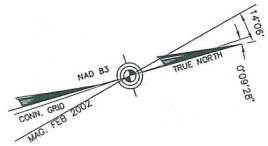
PARCEL OWNER OF RECORD: PEQUABUCK GOLF CLUB OF BRISTOL
C/O LAURENCE ZAHNKE
PO BOX 218 PEQUABUCK, CT 06781

FIELD SURVEYED ON APRIL 14, 2006.

PARCEL IS IN THE R-40 ZONE.

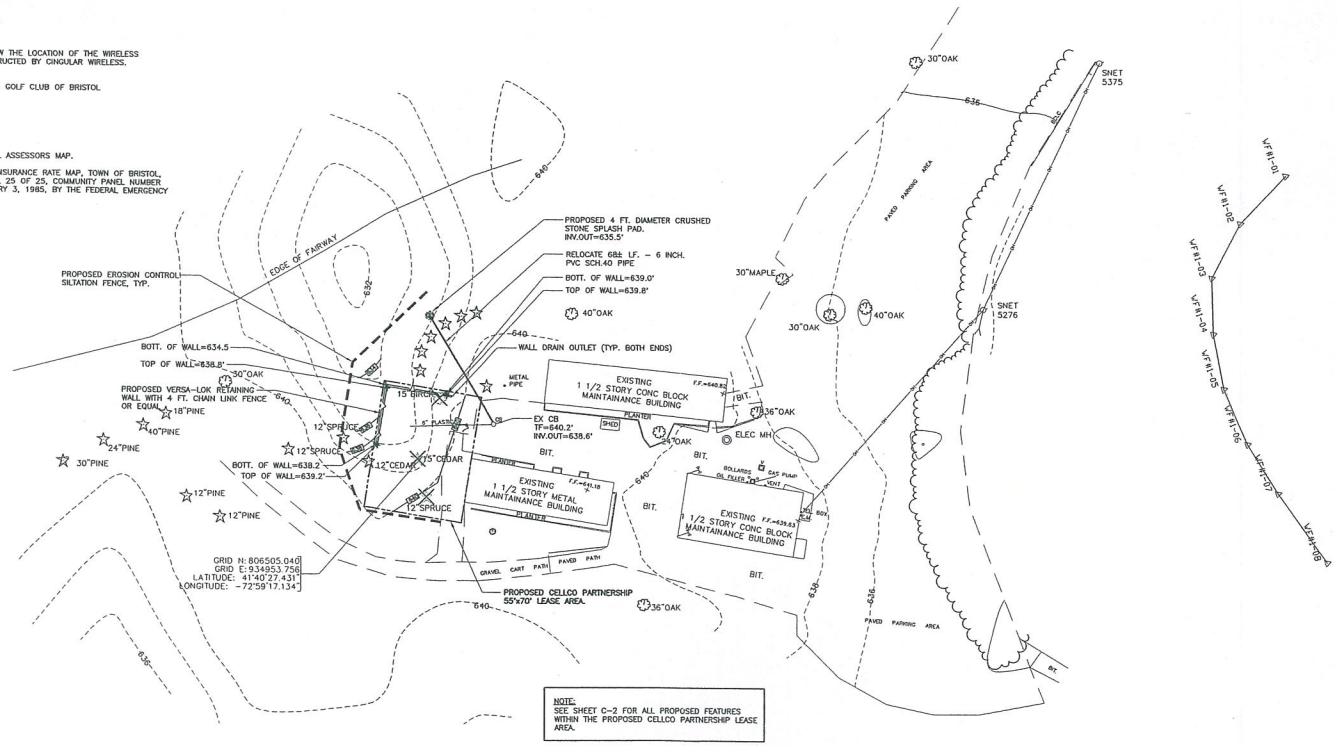
PARCEL MAP 67 LOTS 27+29 BRISTOL ASSESSORS MAP.

PARCEL IS IN ZONE C ON THE FLOOD INSURANCE RATE MAP, TOWN OF BRISTOL, CONNECTICUT, HARTFORD COUNTY, PANEL 25 OF 25, COMMUNITY PANEL NUMBER 090173 0025 A, EFFECTIVE DATE JANUARY 3, 1985, BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.




SYMBOLS LEGEND

| | |
|---|---|
| UTILITY POLE | PROPERTY LINE |
| DECIDUOUS TREE | EASEMENT LINE |
| EVERGREEN TREE | CONTOUR LINE |
| DECIDUOUS TREE TO BE REMOVED | GRADING LINE |
| EVERGREEN TREE TO BE REMOVED | TREELINE |
| | IRON PIN |
| | WETLAND FLAG |




NOTE:
SEE SHEET C-2 FOR ALL PROPOSED FEATURES WITHIN THE PROPOSED CELLCO PARTNERSHIP LEASE AREA.

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

A. RAFAEL MARTINEZ LLS #18833 DATE

1 / C-1 SITE PLAN
SCALE: 1"= 30'-0"

GRAPHIC SCALE
30 0 15 30 60 120
( IN FEET )
1 inch = 30 ft.

| REVISIONS | | |
|---|---|---|
| 00 | 05/17/05 | SITING COUNCIL-REVIEW |
| 01 | 05/19/05 | SITING COUNCIL-REVIEW |
| 02 | 05/31/06 | SITING COUNCIL |

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STATE OF CONNECTICUT
PROFESSIONAL ENGINEER SEAL

BRISTOL WEST

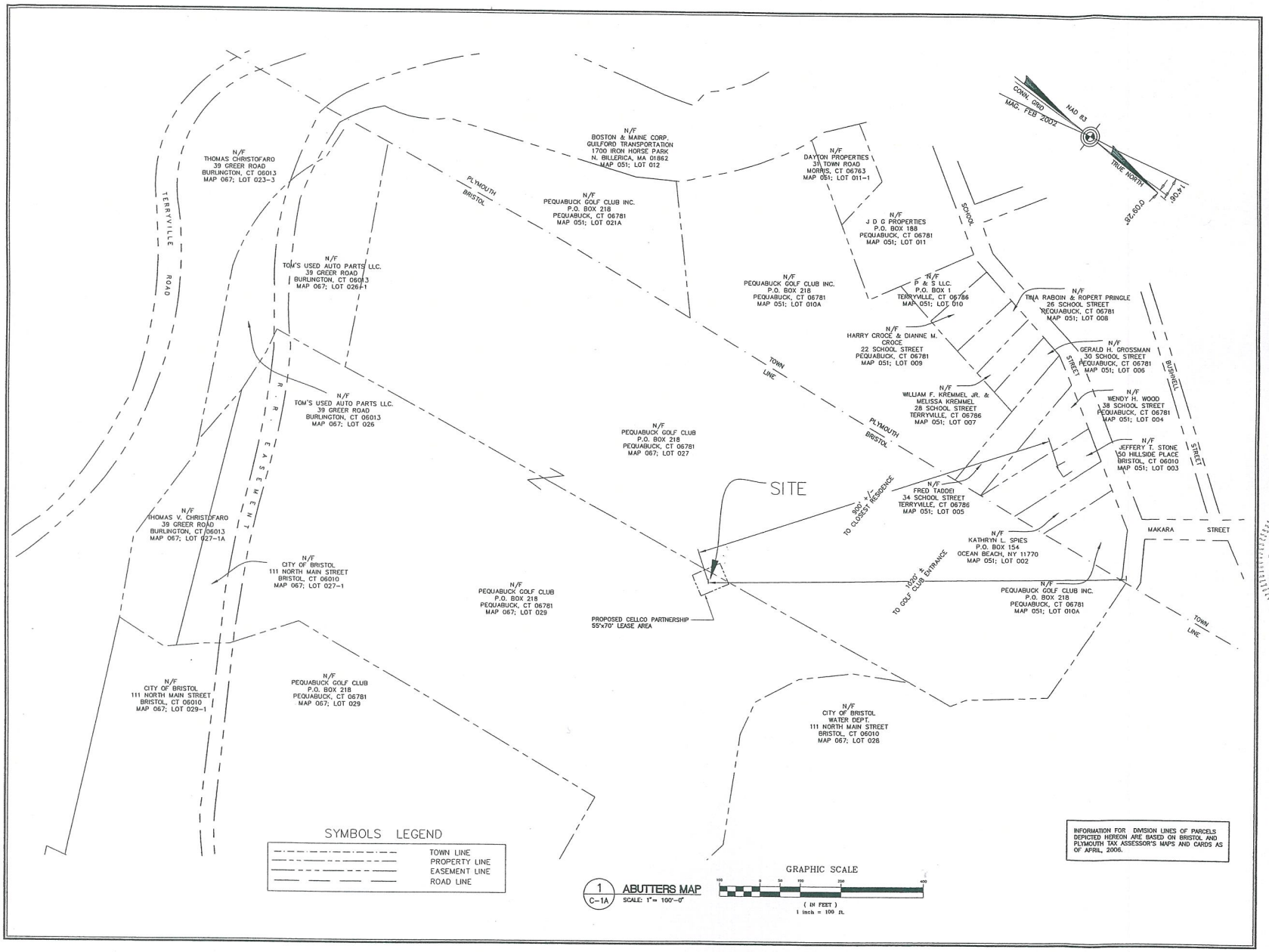
1191 TERRYVILLE AVE
BRISTOL, CT 06010

| | |
|---|---|
| PROJECT NO: | 05096 |
| DRAWN BY: | DMD |
| CHECKED BY: | CFC |
| SCALE: | AS NOTED |
| DATE: | 07/21/05 |

SITE PLAN

C-1

DWG. 2 OF 8




INFORMATION FOR DIVISION LINES OF PARCELS DEPICTED HEREON ARE BASED ON BRISTOL AND PLYMOUTH TAX ASSESSOR'S MAPS AND CARDS AS OF APRIL, 2006.

| REVISIONS | | |
|---|---|---|
| 00 | 05/17/05 | SITING COUNCIL-REVIEW |
| 01 | 05/19/05 | SITING COUNCIL-REVIEW |
| 02 | 05/31/05 | SITING COUNCIL |
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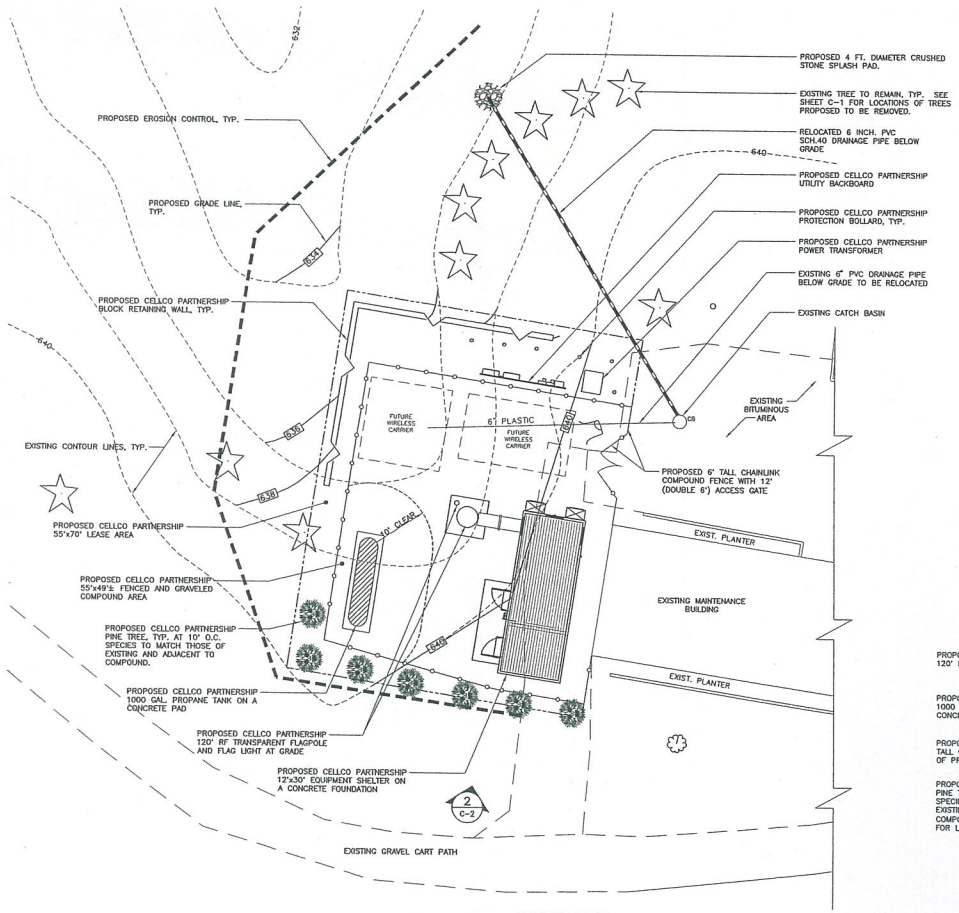
ABUTTERS MAP

C-1A

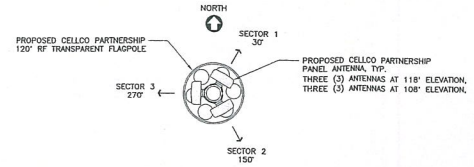
DWG. 3 OF 8



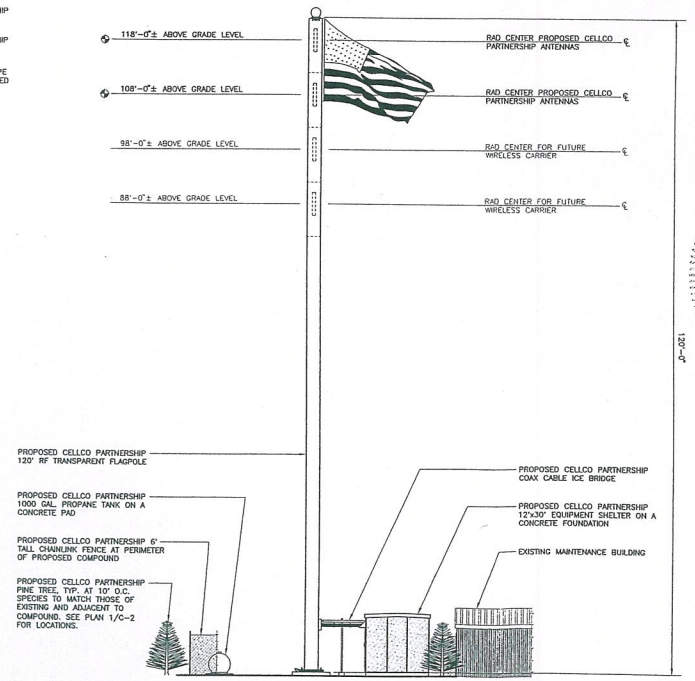

1 C-2 **PARTIAL SITE PLAN**
SCALE: 1" = 10'-0"

TRUE NORTH

GRAPHIC SCALE
( IN FEET )
1 inch = 10 ft.




**ANTENNA ORIENTATION KEY**
NOT TO SCALE




2 C-2 **COMPOUND AND TOWER ELEVATION**
SCALE: 1" = 10'-0"

GRAPHIC SCALE
( IN FEET )
1 inch = 10 ft.

| REVISIONS | | |
|---|---|---|
| 00 | 05/17/05 | SITING COUNCIL-REVIEW |
| 01 | 05/19/05 | SITING COUNCIL-REVIEW |
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| | | |
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| | | |

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PROFESSIONAL ENGINEER SEAL

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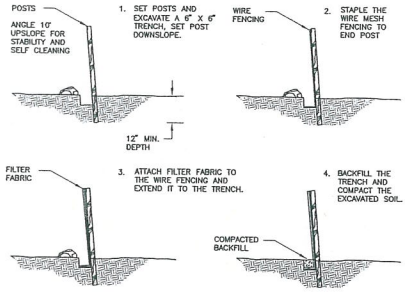
| DATE: | 07/21/05 |

PARTIAL SITE PLAN AND ELEVATION

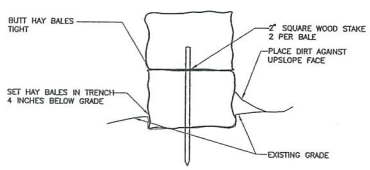
C-2

DWG. 4 OF 8




1 / C-3 **SEDIMENTATION CONTROL BARRIER-SILT FENCE**

NOT TO SCALE




NOTE: A SECOND HAYBALE MAY BE REQUIRED WHERE SLOPE OR HEIGHT REQUIRES IT.

2 / C-3 **SECTION THRU HAYBALE EROSION CONTROL BARRIER**

NOT TO SCALE

# EROSION CONTROL

## GENERAL CONSTRUCTION SEQUENCE

THIS IS A GENERAL CONSTRUCTION SEQUENCE OUTLINE SOME ITEMS OF WHICH MAY NOT APPLY TO PARTICULAR SITES.

1) CUT AND STUMP AREAS OF PROPOSED CONSTRUCTION.

2) INSTALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AS REQUIRED.

3) REMOVE AND STOCKPILE TOPSOIL. STOCKPILE SHALL BE SEEDED TO PREVENT EROSION.

4) CONSTRUCT CLOSED DRAINAGE SYSTEM. PRECEPT CULVERT INLETS AND CATCH BASINS WITH SEDIMENTATION BARRIERS.

5) CONSTRUCT ROADWAYS AND PERFORM SITE GRADING, PLACING HAY BALES AND SILTATION FENCES AS REQUIRED TO CONTROL SOIL EROSION.

6) INSTALL UNDERGROUND UTILITIES.

7) BEGIN TEMPORARY AND PERMANENT SEEDING AND MULCHING. ALL CUT AND FILL SLOPES SHALL BE SEEDED OR MULCHED IMMEDIATELY AFTER THEIR CONSTRUCTION. NO AREA SHALL BE LEFT UNSTABILIZED FOR A TIME PERIOD OF MORE THAN 30 DAYS.

8) DAILY, OR AS REQUIRED, CONSTRUCT, INSPECT, AND IF NECESSARY, RECONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, SILT FENCES AND SEDIMENT TRAPS INCLUDING MULCHING AND SEEDING.

9) BEGIN EXCAVATION FOR AND CONSTRUCTION OF TOWERS AND PLATFORMS.

10) FINISH PAVING ALL ROADWAYS, DRIVES, AND PARKING AREAS.

11) COMPLETE PERMANENT SEEDING AND LANDSCAPING.

12) NO FLOW SHALL BE DIVERTED TO ANY WETLANDS UNTIL A HEALTHY STAND OF GRASS HAS BEEN ESTABLISHED IN REGARDED AREAS.

13) AFTER GRASS HAS BEEN FULLY GERMINATED IN ALL SEEDED AREAS, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES.

## CONSTRUCTION SPECIFICATIONS - SILT FENCE

1) THE GEOTEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR SILT FENCES.

2) THE FABRIC SHALL BE EMBEDDED A MINIMUM OF 8 INCHES INTO THE GROUND AND THE SOIL COMPACTED OVER THE EMBEDDED FABRIC.

3) WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES OR STAPLES.

4) FILTER CLOTH SHALL BE FASTENED SECURELY TO THE WOVEN WIRE FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP, MID-SECTION AND BOTTOM.

5) WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED.

6) FENCE POSTS SHALL BE A MINIMUM OF 36 INCHES LONG AND DRIVEN A MINIMUM OF 16 INCHES INTO THE GROUND. WOOD POSTS SHALL BE OF SOUND QUALITY HARDWOOD AND SHALL HAVE A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES.

7) MAINTENANCE SHALL BE PERFORMED AS NEEDED TO PREVENT BUILD UP IN THE SILT FENCE DUE TO DEPOSITION OF SEDIMENT.

## MAINTENANCE - SILT FENCE

1) SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.

2) IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.

3) SEDIMENT SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACHED APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.

4) SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

## TEMPORARY EROSION CONTROL MEASURES:

1) DISTURBED AREAS SHALL BE KEPT TO THE MINIMUM AREA NECESSARY TO CONSTRUCT THE ROADWAYS AND ASSOCIATED DRAINAGE FACILITIES.

2) HAY BALE BARRIERS AND SEDIMENT TRAPS SHALL BE INSTALLED AS REQUIRED. BARRIERS AND TRAPS ARE TO BE MAINTAINED AND CLEANED UNTIL ALL SLOPES HAVE A HEALTHY STAND OF GRASS.

3) BALED HAY AND MULCH SHALL BE MOWING OF ACCEPTABLE HERBACEOUS GROWTH, FREE FROM NOXIOUS WEEDS OR WOODY STEMS, AND SHALL BE DRY. NO SALT HAY SHALL BE USED.

4) FILL MATERIAL SHALL BE FREE FROM STUMPS, WOOD, ROOTS, ETC.

5) STOCKPILED MATERIALS SHALL BE PLACED ONLY IN AREAS SHOWN ON THE PLANS. STOCKPILES SHALL BE PROTECTED BY SILTATION FENCE AND SEEDED TO PREVENT EROSION. THESE MEASURES SHALL REMAIN UNTIL ALL MATERIAL HAS BEEN PLACED OR DISPOSED OFF SITE.

6) ALL DISTURBED AREAS SHALL BE LOAMED AND SEEDED. A MINIMUM OF 4 INCHES OF LOAM SHALL BE INSTALLED WITH NOT LESS THAN ONE POUND OF SEED PER 50 SQUARE YARDS OF AREA.

7) APPLICATION OF GRASS SEED, FERTILIZERS AND MULCH SHALL BE ACCOMPLISHED BY BROADCAST SEEDING OR HYDROSEEDING AT THE RATES OUTLINED BELOW:

LIMESTONE: 75-100 LBS./1,000 SQUARE FEET.
FERTILIZER: RATE RECOMMENDED BY MANUFACTURER.
MULCH: HAY MULCH APPROXIMATELY 3 TONS/ACRE UNLESS EROSION CONTROL MATTING IS USED.

| SEED MIX (SLOPES LESS THAN 4:1) | LBS./ACRE |
|---|---|
| CREEPING RED RESCUE | 20 |
| TALL RESCUE | 20 |
| RED TOP | 2 |
| | 42 |

| SLOPE MIX (SLOPES GREATER TAN 4:1) | LBS./ACRE |
|---|---|
| CREEPING RED RESCUE | 20 |
| TALL RESCUE | 20 |
| BIRDS FOOT TREE FOIL | 8 |
| | 48 |

8) AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED THE TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED.

9) PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.

10) ALL CATCH BASIN INLETS WILL BE PROTECTED WITH LOW POINT SEDIMENTATION BARRIER.

11) ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED AND CLEANED AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.

12) ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA.

13) NO DISCHARGE SHALL BE DIRECTED TOWARDS ANY PROPOSED DITCHES, SWALES, OR PONDS UNTIL THEY HAVE BEEN PROPERLY STABILIZED.

## CONSTRUCTION SPECIFICATIONS - STRAW OR HAY BALES

1) BALES SHALL BE PLACED IN A ROW WITH THE ENDS TIGHTLY ADJOINING.

2) EACH BALE SHALL BE EMBEDDED IN THE GROUND A MINIMUM OF 4 INCHES.

3) BALES SHALL BE ANCHORED IN PLACE BY AT LEAST TWO STAKES DRIVEN THROUGH THE BALE. THE STAKES SHALL BE DRIVEN AT LEAST 18 INCHES INTO THE GROUND.

4) BARRIERS SHALL BE INSPECTED AFTER EVERY RAINFALL AND PROMPTLY REPAIRED OR REPLACED AS NECESSARY.

5) BALES SHALL BE REMOVED WHEN NO LONGER NEEDED AND THE SEDIMENT COLLECTED SHALL BE DISPOSED OF PROPERLY.

## MAINTENANCE - STRAW OR HAY BALES

1) STRAW OR HAY BALES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.

2) CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, UNDERCUTTING BENEATH THE BALES, AND FLOW AROUND THE END OF THE BALES.

3) NECESSARY REPAIRS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.

4) SEDIMENT DEPOSITS SHOULD BE CHECKED AFTER EACH RAINFALL. THE DEPOSITS SHOULD BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE TABLE.

5) SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE BARRIER HAS BEEN DISMANTLED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED USING

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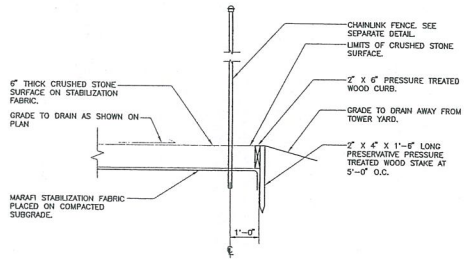
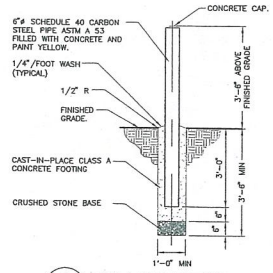
EROSION CONTROL DETAILS AND NOTES

C-3

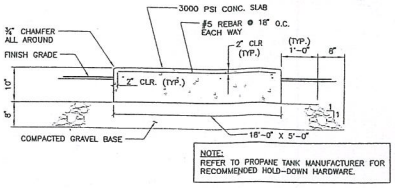
DWG. 5 OF 8




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

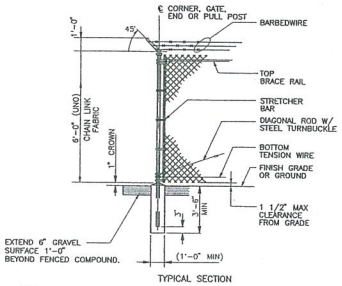



2 C-4 **BOLLARD DETAIL**
NOT TO SCALE




NOTE:
REFER TO PROPANE TANK MANUFACTURER FOR RECOMMENDED HOLD-DOWN HARDWARE.

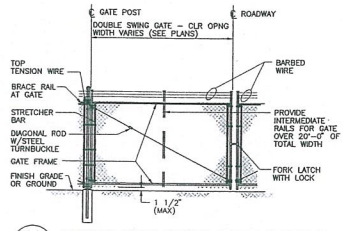
3 C-4 **PROPANE TANK PAD DETAIL**
NOT TO SCALE



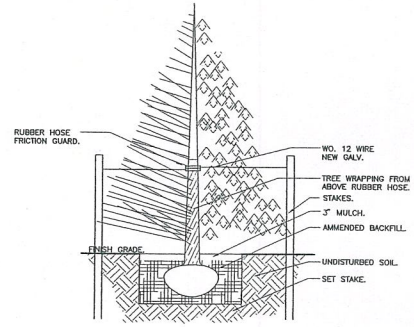

4 C-4 **WOVEN WIRE FENCE DETAIL**
NOT TO SCALE

WOVEN WIRE FENCE NOTES

1. GATE POST, CORNER, TERMINAL OR PULL POST 2 1/2" ø SCHEDULE 40 FOR GATE WIDTHS UP THRU 6 FEET OR 12 FEET FOR DOUBLE SWING GATE PER ASTM-F1083.
2. LINE POST: 2" ø SCHEDULE 40 PIPE PER ASTM-F1083.
3. GATE FRAME: 1 1/2" ø SCHEDULE 40 PIPE PER ASTM-F1083.
4. TOP RAIL & BRACE RAIL: 1 1/2" ø 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 PT. BARBS SPACED ON APPROXIMATELY 5" CENTERS.
9. GATE LATCH: DROP DOWN LOCKABLE FORK LATCH AND LOCK, KEYED ALIKE FOR ALL SITES IN A GIVEN MTA.
10. LOCAL ORDINANCE OF BARBED WIRE PERMIT REQUIREMENT SHALL BE COMPLIED WITH IF REQUIRED.
11. HEIGHT = 6' VERTICAL + 1' BARBED WIRE VERTICAL DIMENSION.



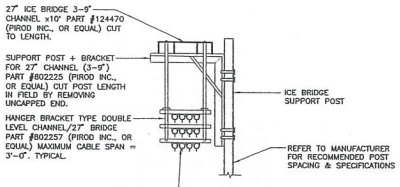

4A C-4 **WOVEN WIRE SWING GATE-DOUBLE**
NOT TO SCALE

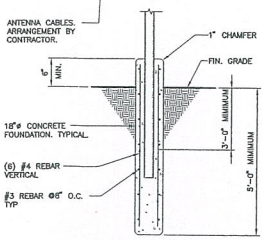



TREE & SHRUB PLANTING SPECIFICATIONS:

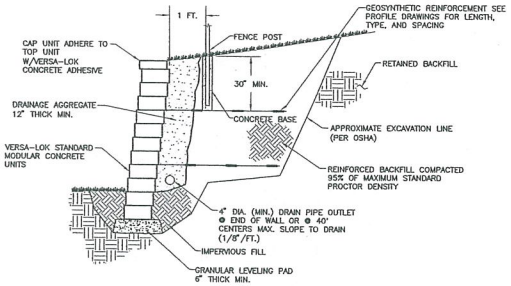
1. GUY WIRES (WO.12 NEW GALV.) SHALL BE REQUIRED FOR ALL TREES 3 GAL. AND LARGER.
2. SOIL MIX SHALL CONSIST OF: 3 PARTS TOP SOIL, 3 PART PEAT MOSS, 10 ONE PART COMPOSTED COW MANURE, AND 1 OZ. SOIL MOIST PER EVERY 12 IN. OF LINEAR DIM. OF ROOT BALL. COVER WITH LANDSCAPE FABRIC, AND A MINIMUM OF 3" CEDAR MULCH.
3. TREES 6' AND OVER SHALL BE STAKED WITH 2 OAK STAKES 2" X 2" X 6' AND GUY WIRE TO STAKES.
4. ALL TREES AND SHRUBS MUST MEET OR EXCEED STANDARDS SET BY THE NATIONAL ASSOCIATION OF NURSERYMEN, YEAR OF LATEST REVISION.

5 C-4 **TYPICAL TREE PLANTING DETAIL**
NOT TO SCALE

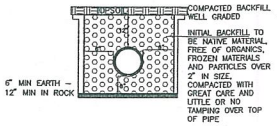



7 C-4 **ICE BRIDGE DETAIL**
NOT TO SCALE




6 C-4 **REINFORCED RETAINING WALL**
NOT TO SCALE TYPICAL SECTION




8 C-4 **PVC BEDDING DETAIL**
NOT TO SCALE

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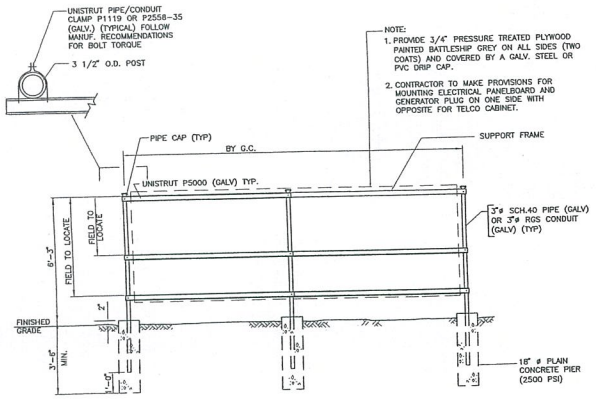
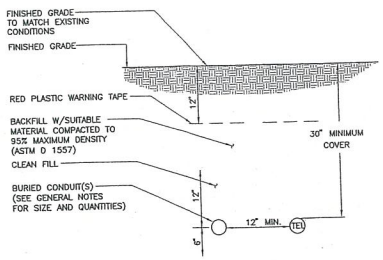
SITE DETAILS

C-4

DWG. 6 OF 8

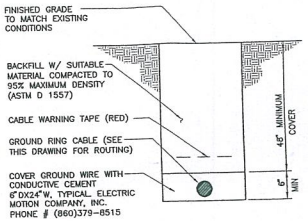



1 / C-5 UTILITY SUPPORT FRAME (TYP)
NOT TO SCALE



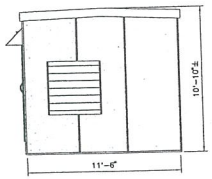

NOTES:
1. THE CLEAN FILL SHALL PASS THROUGH A 3/8" MESH SCREEN AND SHALL NOT CONTAIN SHARP STONES. OTHER BACKFILL SHALL NOT CONTAIN ASHES, CINDERS, SHELLS, FROZEN MATERIAL, LOOSE DEBRIS OR STONES LARGER THAN 2" IN MAXIMUM DIMENSION.
2. WHERE EXISTING UTILITIES ARE LIKELY TO BE ENCOUNTERED, CONTRACTOR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

2 / C-5 TYPICAL ELECTRICAL/TEL TRENCH DETAIL
NOT TO SCALE

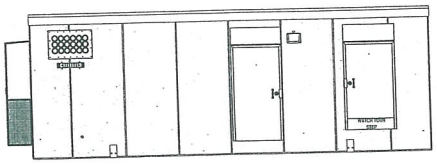



NOTES:
1. BACK FILL SHALL NOT CONTAIN ASHES, CINDERS, SHELLS, FROZEN MATERIAL, LOOSE DEBRIS OR STONES LARGER THAN 2" IN MAXIMUM DIMENSION.
2. WHERE EXISTING UTILITIES ARE LIKELY TO BE ENCOUNTERED, CONTRACTOR SHALL HAND DIG AND PROTECT EXISTING UTILITIES.

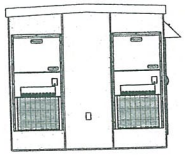
3 / C-5 TYPICAL BURIAL GROUND CABLE DETAIL
NOT TO SCALE



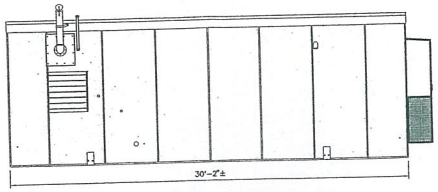

4 / C-5 SOUTHEAST SHELTER ELEVATION
SCALE: 1/4" = 1'-0"



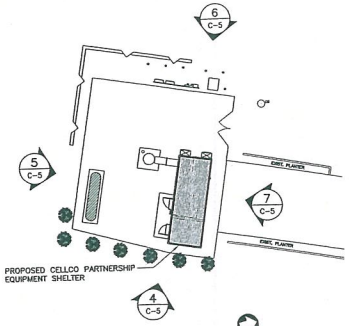

5 / C-5 SOUTHWEST SHELTER ELEVATION
SCALE: 1/4" = 1'-0"



6 / C-5 NORTHWEST SHELTER ELEVATION
SCALE: 1/4" = 1'-0"




7 / C-5 NORTHEAST SHELTER ELEVATION
SCALE: 1/4" = 1'-0"




SHELTER ELEVATION KEY PLAN
NOT TO SCALE

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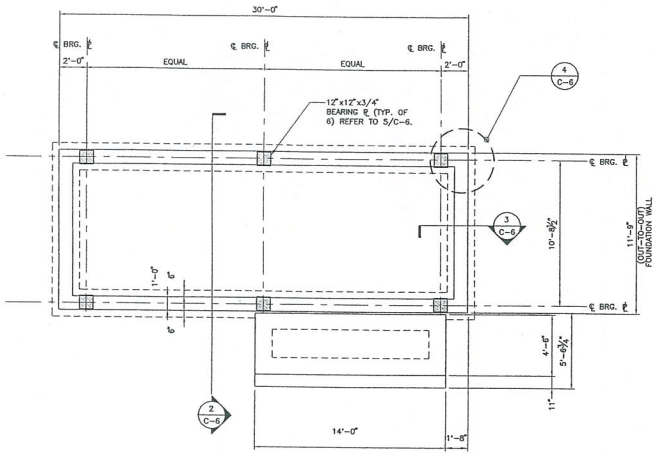
SITE UTILITY DETAILS AND SHELTER ELEVATIONS

C-5

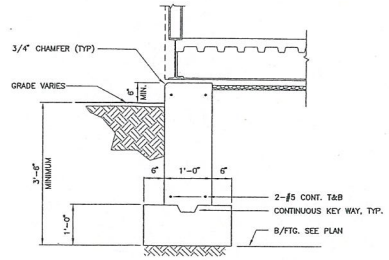
DWG. 7 OF 8



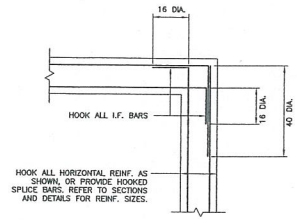

NOTE:
1. B/FTG. ELEVATION AT 3'-6" MINIMUM BELOW FINISHED GRADE, (TYP)

1 C-6 FOUNDATION PLAN
SCALE: 1/4"=1'-0"
TRUE NORTH

EQUIPMENT SHELTER BY VERIZON WIRELESS. VERIFY ALL SHELTER DIMENSIONS, EQUIPMENT DIMENSIONS, EQUIPMENT LOCATIONS AND UTILITY OPENINGS WITH BUILDING SHOP DRAWINGS PRIOR TO COMMENCEMENT OF WORK.




3 C-6 SECTION
SCALE: 3/4" = 1'-0"




4 C-6 SECTION
NOT TO SCALE

## GENERAL NOTES:

GENERAL

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 AND COORDINATE 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.

COMPACTED GRAVEL FILL

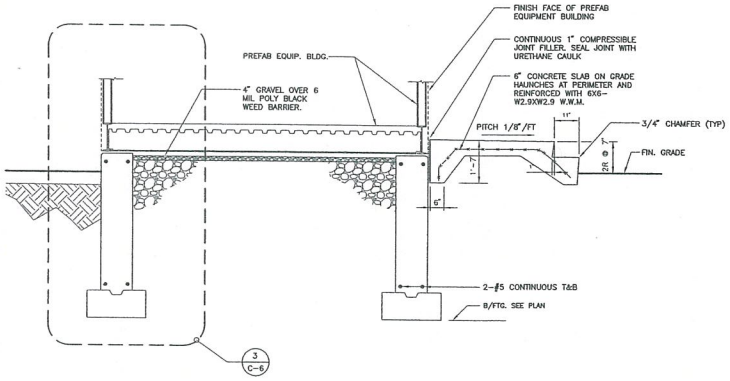
1. COMPACTED GRAVEL FILL SHALL BE FURNISHED AND PLACED AS A FOUNDATION FOR STRUCTURES, WHERE SHOWN ON THE CONTRACT DRAWINGS OR DIRECTED BY THE ENGINEER.
2. GRAVEL SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE M.02.02 OF THE STANDARD SPECIFICATIONS. ADMIXTURES AND SURFACE PROTECTIVE MATERIALS USED TO PREVENT THE GRAVEL FROM FREEZING MUST MEET 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 THAN EIGHT (8) INCHES. EACH LAYER SHALL BE LEVELED OFF BY THE USE OF BLADE GRADERS OR BULLDOZERS WITH ADEQUATE POWER FOR THE WORK INVOLVED. THE ENTIRE AREA OF EACH LAYER SHALL BE COMPACTED BY USE OF APPROVED VIBRATORY, PNEUMATIC-TIRED OR TREAD-TYPE COMPACTION EQUIPMENT. COMPACTION 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 AASHTO T-99 METHOD C. THE MOISTURE CONTENT OF THE GRAVEL SHALL NOT VARY BY MORE THAN 3%+ FROM ITS OPTIMUM MOISTURE CONTENT. NO SUBSEQUENT LAYER SHALL BE DEPOSITED UNTIL THE SPECIFIED COMPACTION IS ACHIEVED FOR THE PREVIOUS LAYER. IF NECESSARY TO OBTAIN THE REQUIRED COMPACTION, WATER SHALL BE ADDED AND GENTLE PUDDLING 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.

FOUNDATIONS

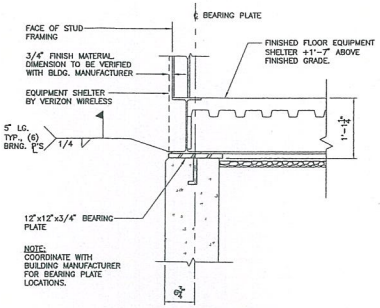
1. ALL FOOTINGS SHALL BEAR ON UNDISTURBED NATURAL MATERIAL OR COMPACTED STRUCTURAL FILL HAVING AN ALLOWABLE BEARING CAPACITY 2 TONS PER SQUARE FOOT TOTAL LOAD PRESSURE.
2. ELEVATIONS OF BOTTOM OF FOOTING SHOWN ON THE PLANS ARE FOR BIDDING PURPOSES AND SHALL BE LOWERED TO THE REQUIRED BEARING MATERIAL AS FOUND UPON EXCAVATION. IF THE REQUIRED BEARING MATERIAL IS NOT ENCOUNTERED AT THE NOTED ELEVATIONS, NOTIFY THE ENGINEER IMMEDIATELY.

CONCRETE

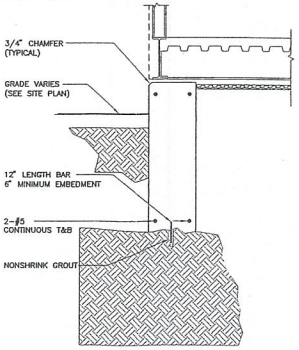
1. ALL CONCRETE WORK SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTES "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS" (ACI 301).
2. ALL CONCRETE WORK IS DESIGNED BY ULTIMATE STRENGTH METHODS AND SHALL BE NORMAL WEIGHT WITH A 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.
3. ALL REINFORCING STEEL SHALL BE HIGH STRENGTH DEFORMED BARS CONFORMING TO ASTM A615 – GRADE 60.
4. ALL DETAILING, FABRICATION AND PLACING OF REINFORCING BARS SHALL BE IN ACCORDANCE THE LATEST ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCEMENT IN CONCRETE STRUCTURES (ACI 315).
5. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. WIRE MESH REINFORCEMENT MUST LAP ONE FULL MESH AT SIDE AND END LAPS, AND SHALL BE WIRED TOGETHER. MESH SHALL EXTEND WITHIN 2" OF SLAB EDGES.
6. LOCATE WELDED WIRE FABRIC ONE THIRD THE SLAB THICKNESS BELOW THE TOP SURFACE. MAINTAIN LOCATION OF STEEL DURING POUR. SUPPORT MESH ON CHAIRS, BOLSTERS, OR SMALL BRICK OR STONE, NOT ON WOOD OR OTHER ORGANIC MATERIALS.
7. SHOP DRAWINGS AND CONCRETE ADMIXTURE PRODUCT DATA SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCING CONSTRUCTION. DRAWINGS SHALL BE PROVIDED FOR SLABS-ON-GRADE AND CAST-IN-PLACE WALLS. ALL PERTINENT DIMENSIONS, REINFORCEMENT SIZES, SPACING, LOCATIONS AND QUANTITIES SHALL BE NOTED.




2 C-6 TYPICAL SECTION
SCALE: 1/2"=1'-0"




5 C-6 BUILDING TIE DOWN
SCALE: 1"=1'-0"




6 C-6 FOUNDATION OVER LEDGE (TYPICAL)
SCALE: 3/4"=1'-0"

| REVISIONS | | |
|---|---|---|
| 00 | 05/17/05 | SITING COUNCIL-REVIEW |
| 01 | 05/19/05 | SITING COUNCIL-REVIEW |
| 02 | 05/31/05 | SITING COUNCIL |
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Cellco Partnership
d.b.a. verizon wireless


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| | |
|---|---|
| PROJECT NO: | 05096 |
| DRAWN BY: | DMD |
| CHECKED BY: | CFC |
| SCALE: | AS NOTED |
| DATE: | 07/21/05 |

EQUIP. SHELTER FOUNDATION DETAILS AND NOTES

C-6

DWG. 8 OF 8

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