CT-999-0108
NEW LONDON

Optasite

DEVELOPMENT & MANAGEMENT PLANS - NOT FOR CONSTRUCTION

PROJECT SUMMARY

SITE NUMBER:	CT-999-0108
SITE NAME:	NEW LONDON
SITE ADDRESS:	1294 PLEASANT VALLEY ROAD NORTH GROTON, CT 06340
PROPERTY OWNER:	JFM ENTERPRISES LLC 1276 PLEASANT VALLEY ROAD NORTH GROTON, CT 06340
APPLICANT:	OPTASITE TOWERS LLC 1 RESEARCH DRIVE, SUITE 200C WESTBOROUGH, MA 01581
CONTACT:	KEITH COPPINS (508) 799-2460 EXT. 314
2C COORDINATES:	41° 23' 59.9"N 72° 04' 45.2"W
HORIZONTAL DATUM:	NAD 83
GROUND ELEVATION:	142' AMSL
PARCEL ID:	178010470143
CURRENT ZONING:	RU-20
ENGINEER:	CLOUGH HARBOUR & ASSOCIATES LLP 2139 SILAS DEANE HIGHWAY SUITE 212 ROCKY HILL, CT 06067
CONTACT:	PAUL LUSITANI (860) 257-4557

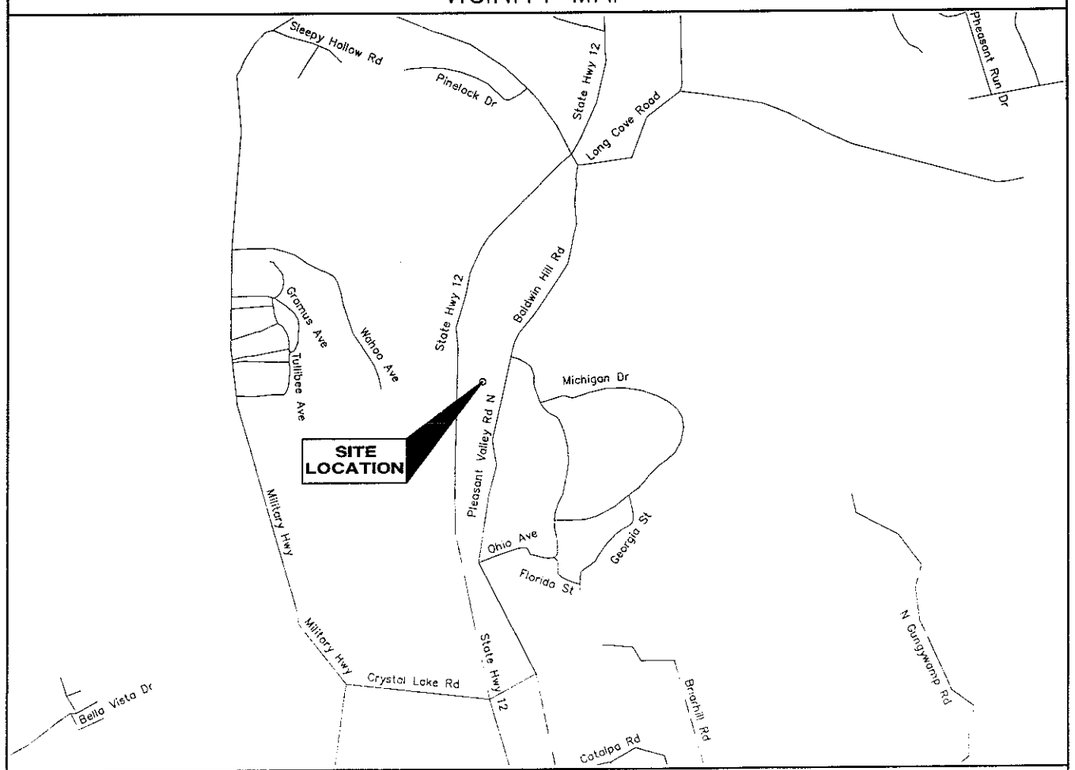
DRIVING DIRECTIONS

FROM I-395 SOUTH:
- TAKE EXIT 79A TO CT-2A EAST
- TURN RIGHT ON CT-12 SOUTH
- TURN LEFT ON LONG COVE ROAD
- TURN RIGHT ON BALDWIN HILL ROAD
- SITE WILL BE ON THE RIGHT

PROJECT DESCRIPTION

THIS PROJECT PROPOSES A 50' x 50' GRAVEL COMPOUND SURROUNDED BY AN 8 FT HIGH FENCE, LOCATED INSIDE THE COMPOUND WILL BE A PROPOSED 140 FOOT HIGH MONOPOLE WHO WILL HAVE 9 ANTENNAS LOCATED AT AN ELEVATION OF 127 FEET ON THE TOWER. TELECOMM PLATFORM EQUIPMENT WITH ASSOCIATED ELECTRICAL AND TELEPHONE SERVICES WILL BE LOCATED IN THE COMPOUND. MAINTENANCE VISITS WILL CONSIST OF ONE VISIT PER MONTH BY A TECHNICIAN IN A PICKUP TRUCK

VICINITY MAP



JULY 2007

SHEET INDEX

SHEET NO:	SHEET TITLE	REVISION HISTORY NO:	REVISION HISTORY DATE
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C06	OMNIPOINT EQUIPMENT DETAILS	1	07 / 03 / 07

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME

CT

SAVE BIG, CALL BEFORE YOU DIG.
1-800-922-4455

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1 RESEARCH DRIVE, SUITE 200C
WESTBOROUGH MA 01581

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2139 Silas Deane Highway, Suite 212 · Rocky Hill, CT 06067-2338
Main: (860) 257-4557 www.cloughharbour.com

CHA PROJECT NO:
15363 – 1006 – 1601

NO	SUBMITTAL		
0	06/15/07	ISSUED FOR REVIEW	
	BY: PAL	CHK: PAL	APP'D: JPS
1	07/03/07	ISSUED FOR D&M	
	BY: PAL	CHK: PAL	APP'D: JPS

STATE OF CONNECTICUT · RODNEY A. BALDWIN · 7683 · LICENSED PROFESSIONAL ENGINEER

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SITE NAME:
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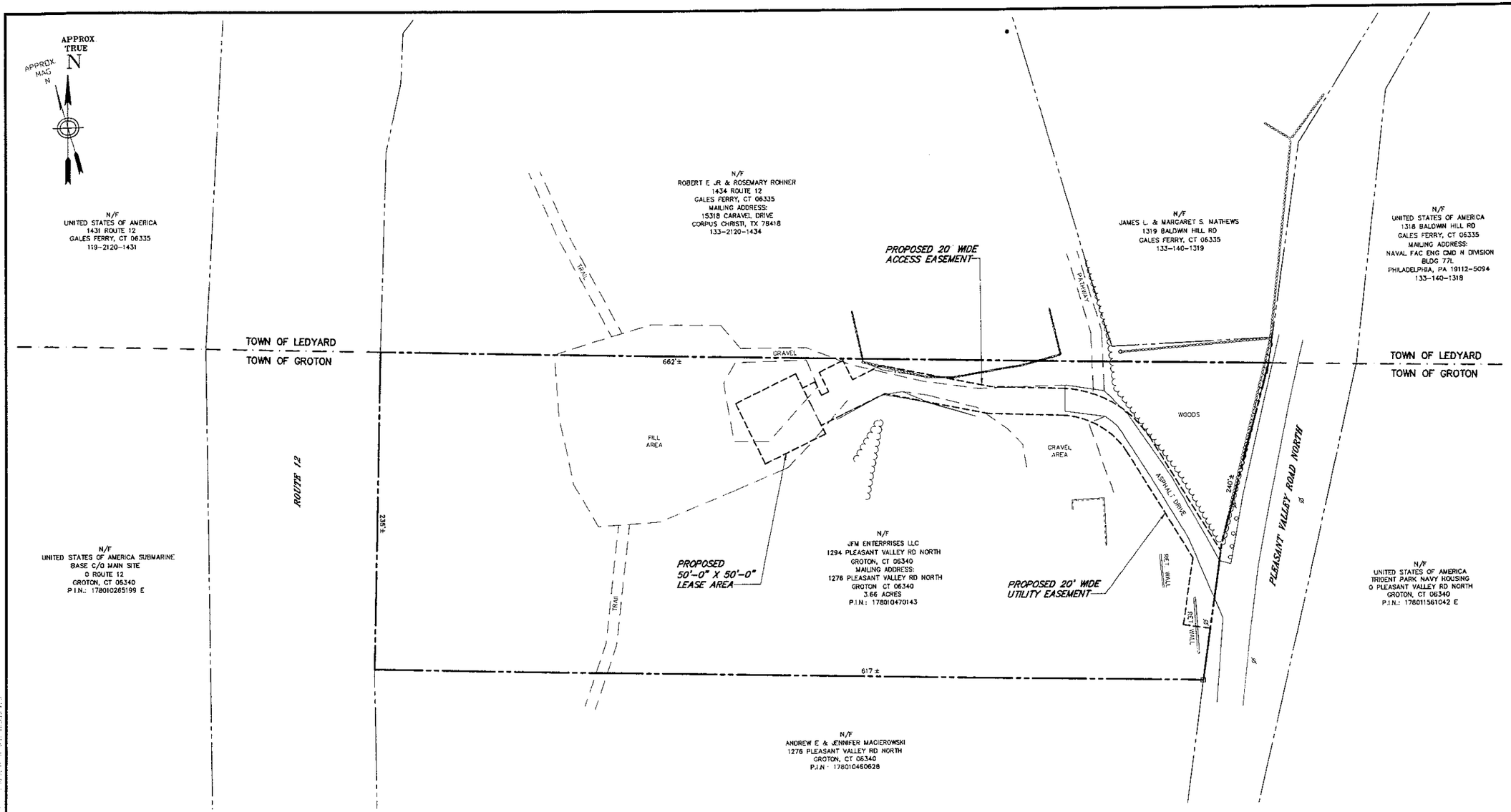
SITE ADDRESS:
1294 PLEASANT VALLEY ROAD NORTH
GROTON, CT 06340
NEW LONDON COUNTY

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T01



1 | C01 **SITE PLAN**

SCALE: 1" = 40 FULL SIZE
1" = 80 11 X 17

0 40 80
SCALE IN FEET

SURVEY NOTES:

1. THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS INC. ON SEPTEMBER 26, 1996. THE BOUNDARY LINES SHOWN ON THIS PLAN WERE COMPILED FROM OTHER MAPS, RECORD RESEARCH OR OTHER SOURCES OF INFORMATION. IT IS NOT TO BE CONSTRUED AS HAVING BEEN OBTAINED AS THE RESULT OF A FIELD SURVEY AND IS SUBJECT TO SUCH CHANGE AS AN ACCURATE FIELD SURVEY MAY DISCLOSE

TYPE OF SURVEY: COMPILATION PLAN

BOUNDARY DETERMINATION CATEGORY: NONE

CLASS OF ACCURACY: HORIZONTAL CLASS A-2
VERTICAL CLASS V-2
TOPOGRAPHIC CLASS T-2

2. PROPERTY LINE SHOWN HEREON ARE FROM RECORD DEEDS PLOTS AND TAX MAPS AS OVERLAID ON ANY MONUMENTATION OR OTHER EVIDENCE THAT MAY HAVE BEEN LOCATED DURING THE TOPOGRAPHIC SURVEY. A PROPERTY SURVEY WAS NOT PERFORMED BY CLOUGH HARBOUR & ASSOCIATES LLP AND AS A RESULT THE PROPERTY LINES SHOWN ARE APPROXIMATE AND DO NOT PRESENT A PROPERTY/BOUNDARY OPINION

3. BASE MAPPING PREPARED BY CLOUGH HARBOUR & ASSOCIATES LLP FROM AN OCTOBER 2006 FIELD SURVEY

4. NORTH ORIENTATION IS TRUE NORTH BASED ON GPS OBSERVATIONS TAKEN AT THE TIME OF THE FIELD SURVEY

5. UNDERGROUND UTILITIES, STRUCTURES AND FACILITIES HAVE BEEN SHOWN FROM SURFACE LOCATIONS AND MEASUREMENTS OBTAINED FROM A FIELD SURVEY. THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHER UTILITIES WHICH THE EXISTENCE OF ARE NOT KNOWN. SIZE, TYPE AND LOCATION OF ALL UTILITIES AND STRUCTURES MUST BE VERIFIED BY PROPER AUTHORITIES PRIOR TO ANY AND ALL CONSTRUCTION. CALL 811 SAFE PRIOR TO SUBSURFACE ACTIVITY

6. SUBJECT TO ANY STATEMENT OF FACTS THAT AN UP-TO-DATE ABSTRACT OF TITLE WOULD DISCLOSE

7. SUBJECT TO ALL RIGHTS, EASEMENTS, COVENANTS OR RESTRICTIONS OF RECORD

8. LATITUDE/LONGITUDE/ELEVATIONS WERE OBTAINED UTILIZING NGS CORS BASE STATION NAMED "CTGR". LATITUDE/LONGITUDE ARE REFERENCED TO NAD83 CONNECTICUT ZONE. COORDINATES SHOWN, IF ANY, ARE EXPRESSED IN U.S. SURVEY FEET. ELEVATIONS ARE REFERENCED TO NAVD88. TOP OF STRUCTURE HEIGHT AS SHOWN IF ANY DETERMINED BY VERTICAL ANGLE OR BY ACTUAL LOCATION.
INFORMATION SHOWN BASED ON FAA 2C CERTIFICATION ACCURACY LEVEL DEFINED AS:
HORIZONTAL: ±50 FEET / 15 METERS
VERTICAL: ±20 FEET / 6 METERS

9. SITE FALLS WITHIN ZONE "C" DEFINED AS AREAS OF MINIMAL FLOODING AS SHOWN ON FLOOD INSURANCE RATE MAP, TOWN OF GROTON, CONNECTICUT, NEW LONDON COUNTY PANEL 2 OF 11 COMMUNITY PANEL NUMBER 090097 0002 C REVISED AUGUST 15, 1984

10. WETLAND SHOWN BASE ON FIELD DELINEATED POINTS ESTABLISHED BY VANASSE HANGER BRUSTLIN, INC. DATED 10-30-06

MAP REFERENCES:

1. ASSESSOR'S TAX MAP TOWN OF LEDYARD CONNECTICUT SHEET 133 OF 144 PREPARED BY CHARLES A. MAGUIRE & ASSOCIATES, INC.

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OPTASITE TOWERS LLC
1 RESEARCH DRIVE SUITE 200C
WESTBOROUGH MA 01581

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STATE OF CONNECTICUT
RODNEY A. PAL
17983
LICENSED PROFESSIONAL ENGINEER

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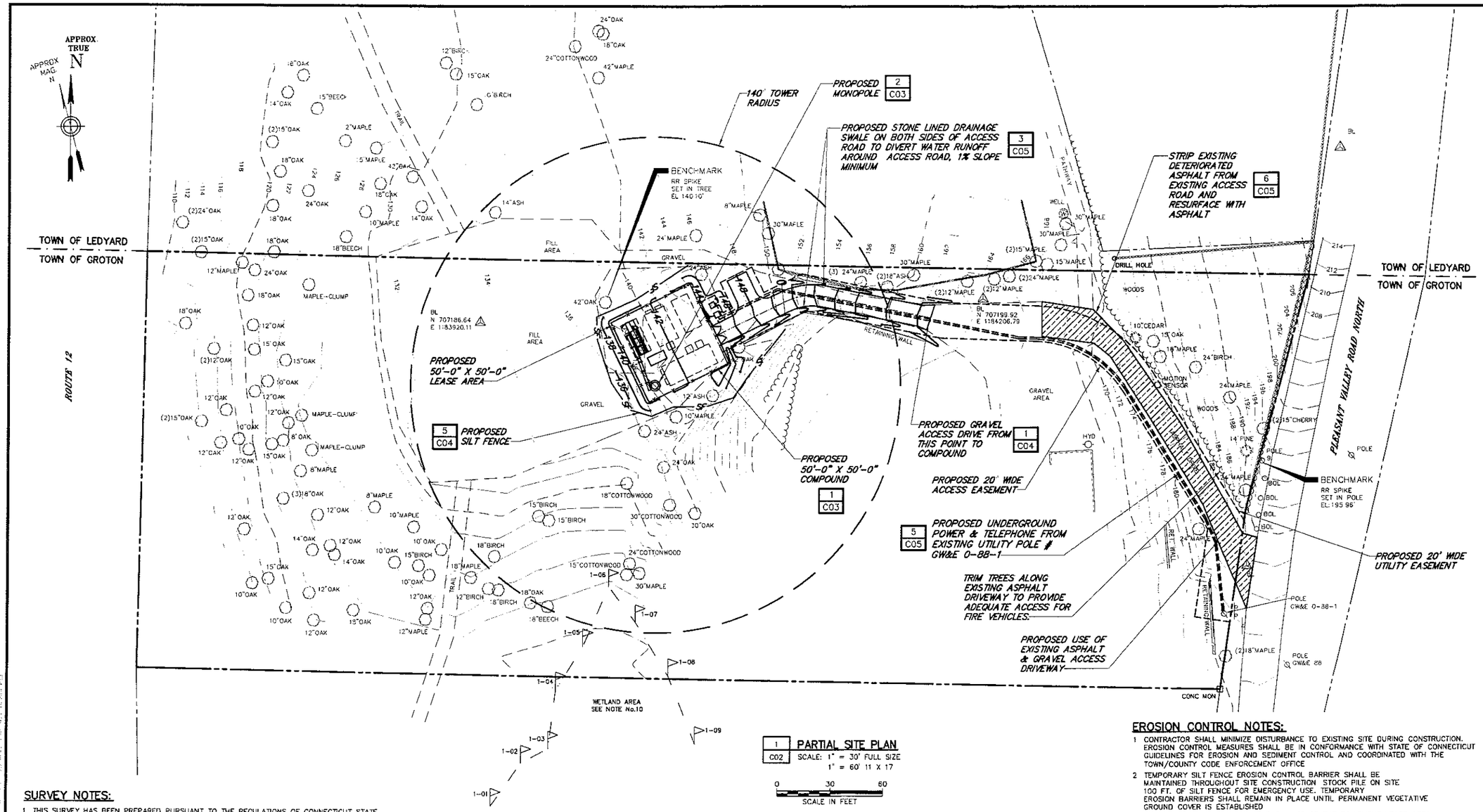
NEW LONDON COUNTY

SHEET TITLE
SITE PLAN

SHEET NUMBER
C01



1 C02 PARTIAL SITE PLAN
SCALE: 1" = 30' FULL SIZE
1" = 60' 11 X 17

0 30 60
SCALE IN FEET

SURVEY NOTES:

1 THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS INC. ON SEPTEMBER 26, 1996. THE BOUNDARY LINES SHOWN ON THIS PLAN WERE COMPILED FROM OTHER MAPS, RECORD RESEARCH OR OTHER SOURCES OF INFORMATION. IT IS NOT TO BE CONSTRUED AS HAVING BEEN OBTAINED AS THE RESULT OF A FIELD SURVEY. AND IS SUBJECT TO SUCH CHANGE AS AN ACCURATE FIELD SURVEY MAY DISCLOSE

TYPE OF SURVEY: COMPILATION PLAN

BOUNDARY DETERMINATION CATEGORY: NONE

CLASS OF ACCURACY: HORIZONTAL CLASS A-2
VERTICAL CLASS V-2
TOPOGRAPHIC CLASS T-2

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MAP REFERENCES.

1. ASSESSOR'S TAX MAP TOWN OF LEDYARD CONNECTICUT SHEET 133 OF 144 PREPARED BY CHARLES A. MAGUIRE & ASSOCIATES INC

SITE WORK GENERAL NOTES:

1 ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWING AND AS STIPULATED HEREIN

2 RUBBISH, STUMPS, DEBRIS, STICKS STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.

3 THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE EQUIPMENT AREA

4 NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT

5 THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION

6 ALL EXISTING ACTIVE SEWER, WATER GAS, ELECTRIC AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK SHALL BE PROTECTED AT ALL TIMES AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW

7 ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF ENGINEERING.

8 THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE BUILDING OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE FERTILIZED SEEDED AND COVERED WITH MULCH

9 CONTRACTOR IS TO SUPPLY COMBINATION LOCKS PER OPTASITE SPECIFICATIONS

EROSION CONTROL NOTES:

1 CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH STATE OF CONNECTICUT GUIDELINES FOR EROSION AND SEDIMENT CONTROL AND COORDINATED WITH THE TOWN/COUNTY CODE ENFORCEMENT OFFICE

2 TEMPORARY SILT FENCE EROSION CONTROL BARRIER SHALL BE MAINTAINED THROUGHOUT SITE CONSTRUCTION STOCK PILE ON SITE 100 FT. OF SILT FENCE FOR EMERGENCY USE. TEMPORARY EROSION BARRIERS SHALL REMAIN IN PLACE UNTIL PERMANENT VEGETATIVE GROUND COVER IS ESTABLISHED

3 ALL DISTURBED AREAS OUTSIDE THE LIMITS OF THE EQUIPMENT LEASE AREA AND ACCESS ROADWAY SHALL BE PERMANENTLY ESTABLISHED WITH A VEGETATIVE GROUND COVER.

4 STILLING BASIN SHALL BE UTILIZED FOR ANY DE-WATERING DISCHARGE WHICH MAY OCCUR DURING CONSTRUCTION OPERATIONS.

5 PROPOSED CONSTRUCTION IMPACTS AND PERMANENT IMPROVEMENTS SHALL NOT SIGNIFICANTLY IMPACT STORM WATER RUNOFF PATTERNS, VOLUME OR PEAK FLOW RATES. THE FLAT GRADE OF THE EQUIPMENT COMPOUND AND STONE SURFACE WILL PROMOTE STORM WATER INFILTRATION.

6 CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENTATION CONTROL MEASURES PRIOR TO ANY GRADING ACTIVITIES IN LOCATIONS SHOWN ON THIS PLAN.

7 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.

8 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.

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

10 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 VEGETATION.

11 NOT GREATER THAN 80,000 SQUARE FEET OF LAND SHALL BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT. WHEN LAND IS EXPOSED DURING DEVELOPMENT, THE EXPOSURE SHOULD BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME AND SHALL NOT EXCEED 90 DAYS. LAND SHOULD NOT BE LEFT EXPOSED DURING THE WINTER MONTHS.

12 ANY DISTURBED AREAS WHICH ARE TO BE LEFT TEMPORARILY AND WHICH WILL BE REGRADED LATER DURING CONSTRUCTION SHALL BE MACHINE HAY MULCHED AND SEEDED WITH RYE GRASS TO PREVENT EROSION. HAY OR STRAW MULCH SHALL BE APPLIED TO ALL FRESHLY SEEDED AREAS AT A RATE OF 2 TONS PER ACRES. BALES SHALL BE UNSPOILED, AIR-DRIED AND FREE FROM WEED, SEEDS AND ANY COARSE MATERIAL.

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1 RESEARCH DRIVE SUITE 200C
WESTBOROUGH MA 01581

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	BY: PAL	CHK: PAL	APP'D: JPS

STATE OF CONNECTICUT
RODNEY A. PRIDDY
7893
LICENSED PROFESSIONAL ENGINEER

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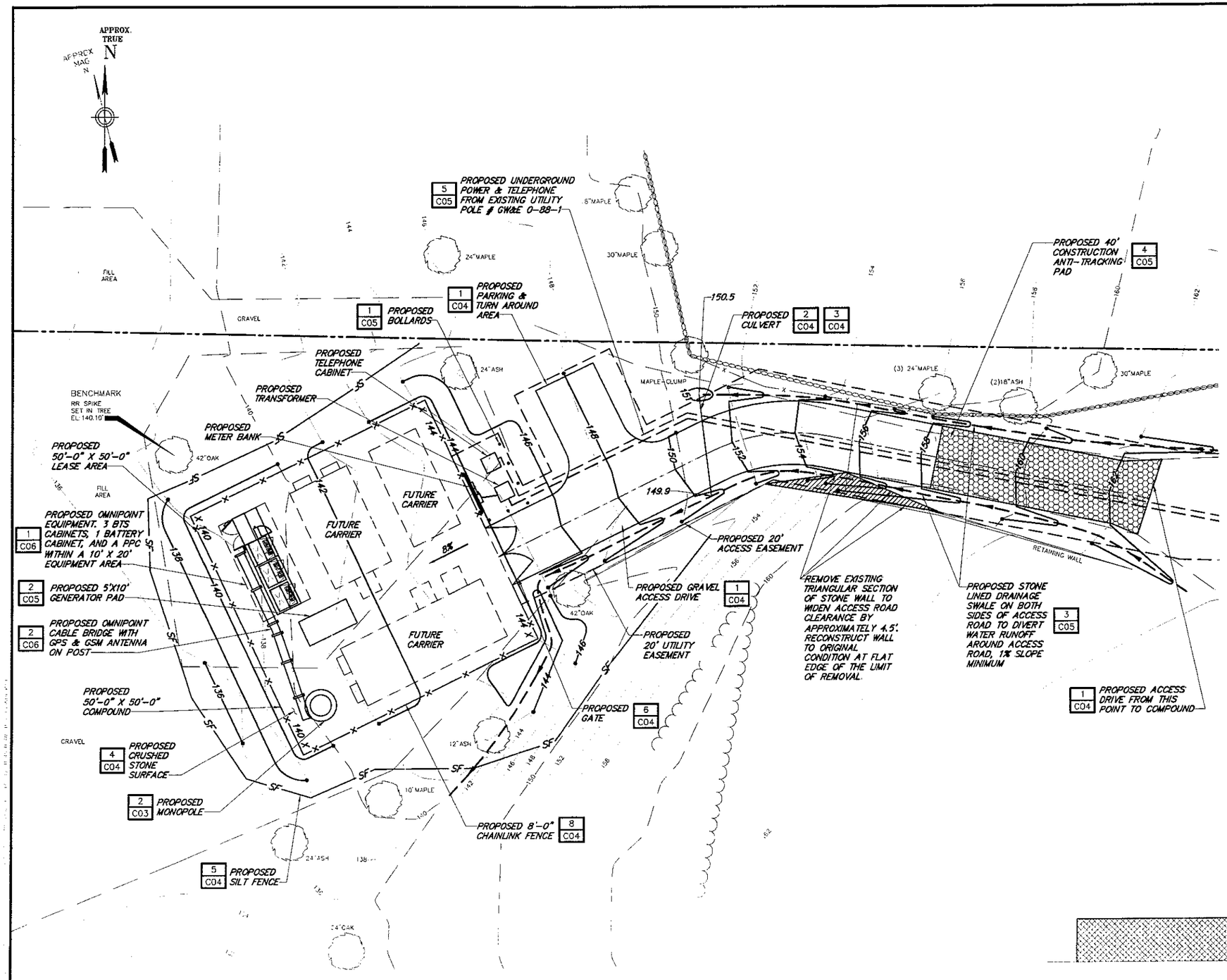
1294 PLEASANT VALLEY ROAD NORTH
GROTON, CT 06340
NEW LONDON COUNTY

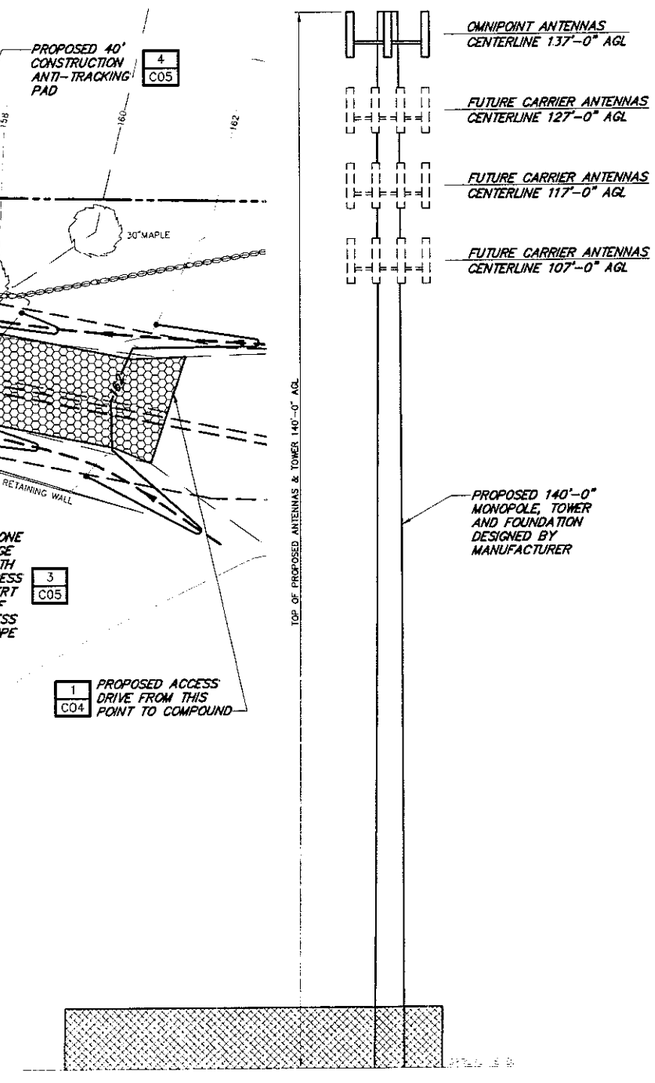
SHEET TITLE
PARTIAL SITE PLAN

SHEET NUMBER
C02



1 C03 COMPOUND & ROAD PLAN
SCALE: 1" = 10' FULL SIZE
1" = 20' 11 X 17
0 10 20

- BOTH THE TOWER STRUCTURE AND FOUNDATION WILL BE/HAVE BEEN DESIGNED BY OTHERS.
- PRIOR TO CONSTRUCTION, THE FINAL TOWER FOUNDATION DESIGN SHOULD BE COMPARED TO THE SITE PLAN TO AVOID POTENTIAL CONFLICTS.



2 C03 TOWER ELEVATION
SCALE: 1" = 10' FULL SIZE
1" = 20' 11 X 17
0 10 20

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STATE OF CONNECTICUT · ROBERT A. PIERCE · No. 18983 · LICENSED PROFESSIONAL ENGINEER

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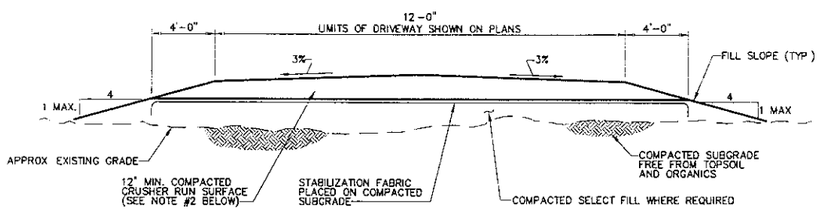
COMPOUND & TOWER ELEVATION

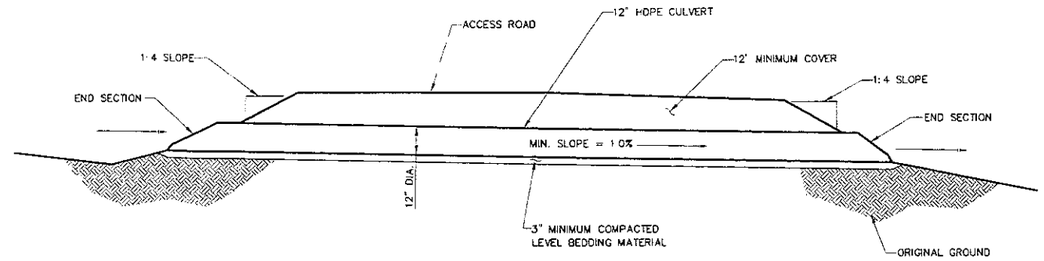
SHEET NUMBER
C03



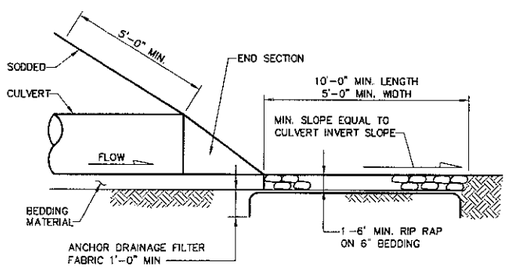
NOTES: 1 WHERE REQUIRED BY THE ENGINEER, THE PROPOSED DRIVEWAY BED SHALL BE OVER-EXCAVATED AND FILLED WITH BANK RUN GRAVEL. THE MATERIAL USED SHALL BE APPROVED BY THE ENGINEER. THE CONTRACTOR WILL BE PAID EXTRA FOR OVER-EXCAVATION AND BACKFILL WITH BANK RUN GRAVEL, ON A UNIT PRICE BASIS.

2 SAND, GRAVEL OR BANK-RUN NOT PERMITTED FOR CRUSHER RUN SURFACE. MATERIAL TO BE FREE FROM ORGANICS AND CONSIST SOLELY OF CRUSHED ROCK PRODUCT WITH THE FOLLOWING GRADATION:
SIEVE: 2" % PASSING: 100
SIEVE 1/4" % PASSING: 25-60
SIEVE NO. 40 % PASSING: 5-40

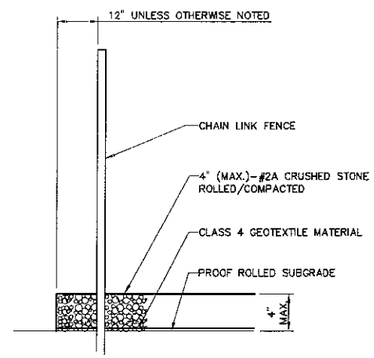
1 | C04 — CROWNED DRIVEWAY SECTION
NO SCALE



2 | C04 — TYPICAL CULVERT INSTALLATION
NO SCALE



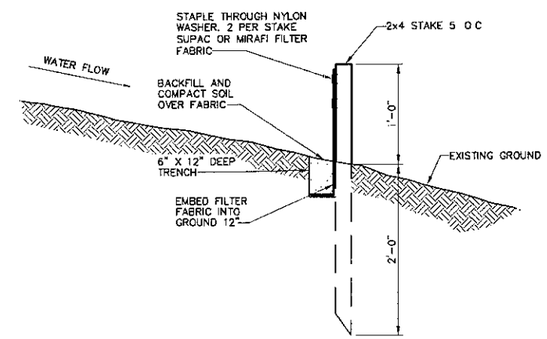
3 | C04 — TYPICAL CULVERT OUTFALL RIPRAP DETAIL
NO SCALE



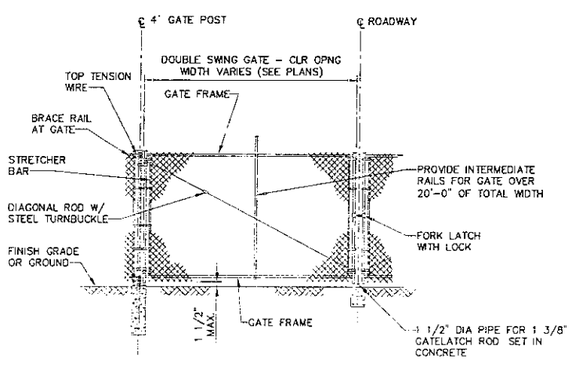
4 | C04 — SITE AREA SURFACING
NO SCALE

NOTE:

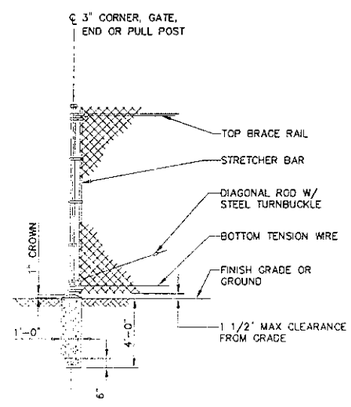
1 THE GOETEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR SILT FENCES.
2 THE FABRIC SHALL BE EMBEDDED A MINIMUM OF 12" INTO THE GROUND AND THE SOIL COMPACTED OVER THE EMBEDDED FABRIC.
3. WOVEN WIRE FENCES SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES OR STAPLES.
4 FILTER CLOTH SHALL BE 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 ONE ANOTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED AND STAPLED.
6 FENCE POSTS SHALL BE A MINIMUM OF 36" LONG AND DRIVEN A MINIMUM OF 24" 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 BULGES IN THE SILT FENCE DUE TO DEPOSITION OF SEDIMENT



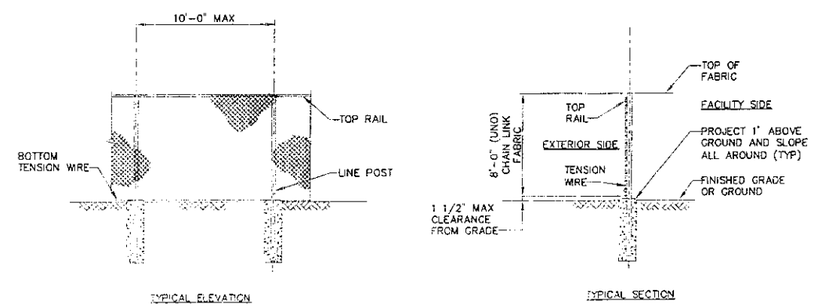
5 | C04 — SILT FENCE DETAIL
NO SCALE



6 | C04 — WOVEN WIRE SWING GATE, DOUBLE DETAIL
NO SCALE



7 | C04 — WOVEN WIRE CORNER, GATE, END OR PULL POST
NO SCALE



8 | C04 — WOVEN WIRE FENCE
NO SCALE

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1	07/03/07	ISSUED FOR D&M	
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STATE OF CONNECTICUT RODNEY A. PAL 7983 LICENSED PROFESSIONAL ENGINEER

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NEW LONDON COUNTY

SHEET TITLE
SITE DETAILS

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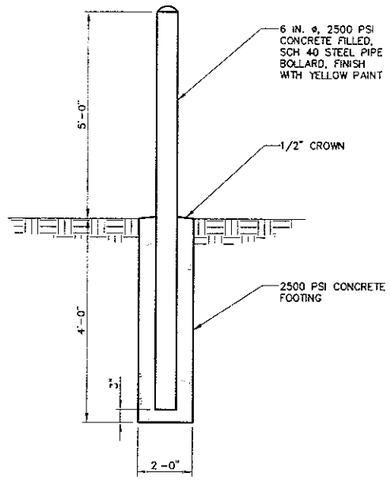
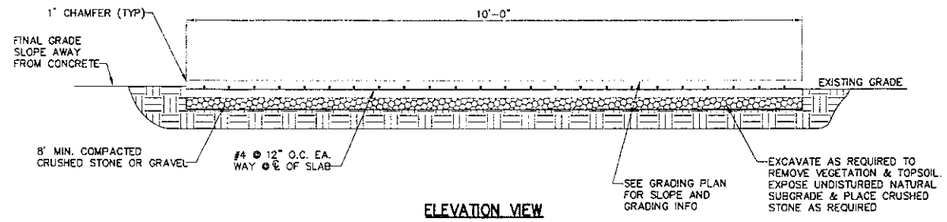
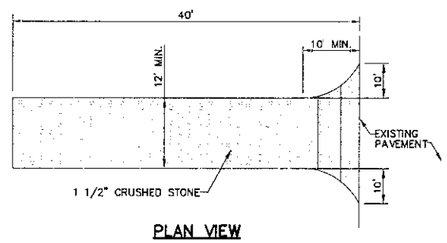


1 BOLLARD DETAIL
C05 NO SCALE

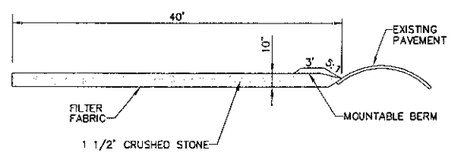


ELEVATION VIEW

2 GENERATOR PAD
C05 NO SCALE



PLAN VIEW



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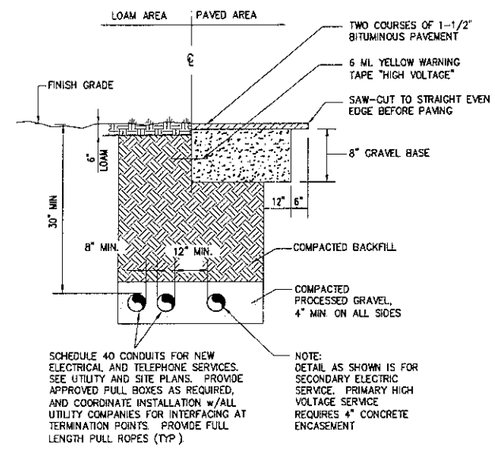
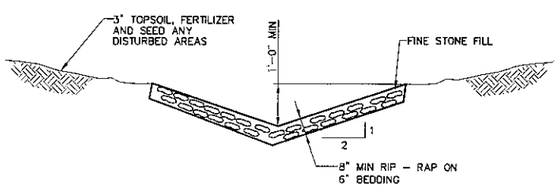


NOTE:
CONDUIT RUNS BENEATH ROAD REQUIRES 4" CONCRETE ENCASEMENT

5 BURIED CONDUIT DETAIL
C05 NO SCALE

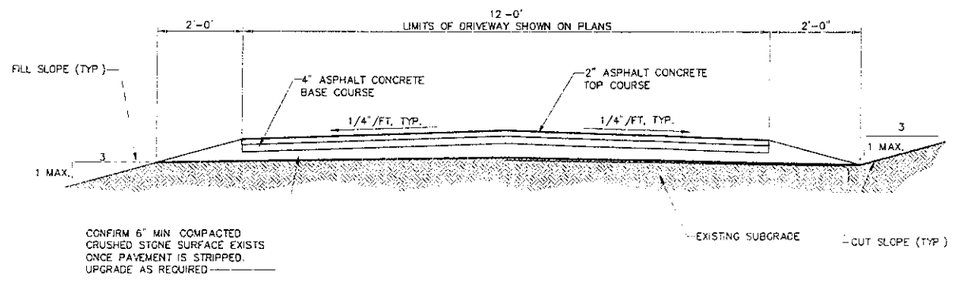


3 STONE DRAINAGE SWALE
C05 NO SCALE

NOTES:

1. ENTRANCE WIDTH SHALL BE A TWELVE (12) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
2. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. BERM SHALL BE PERMITTED. PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED.

4 CONSTRUCTION DEBRIS ANTI-TRACKING PAD
C05 NO SCALE



6 ASPHALT DRIVEWAY RESURFACE DETAIL
C05 NO SCALE

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STATE OF CONNECTICUT · RODNEY A. BRUNSEN · 17583 · LICENSED PROFESSIONAL ENGINEER

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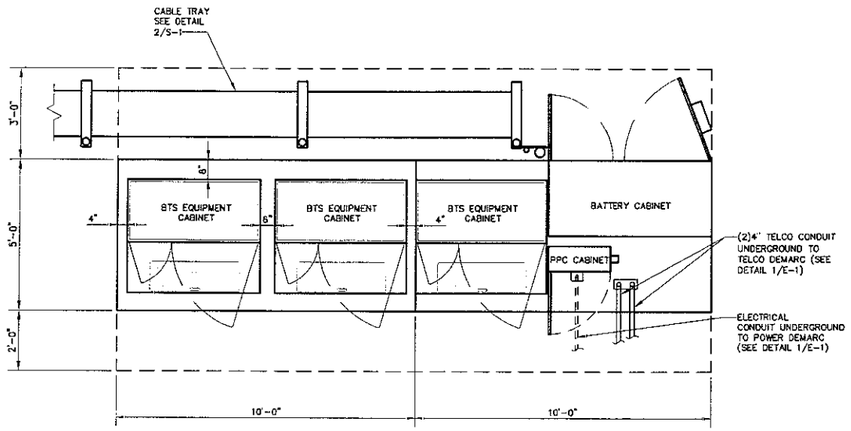
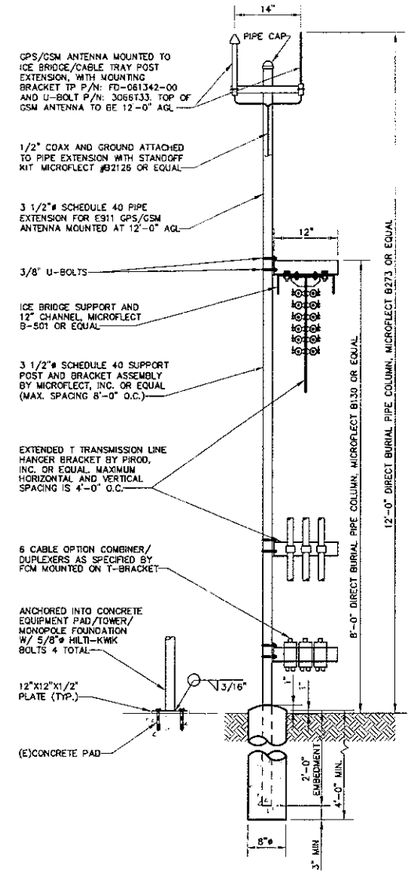


1 C06 **EQUIPMENT SLAB LAYOUT**
NO SCALE



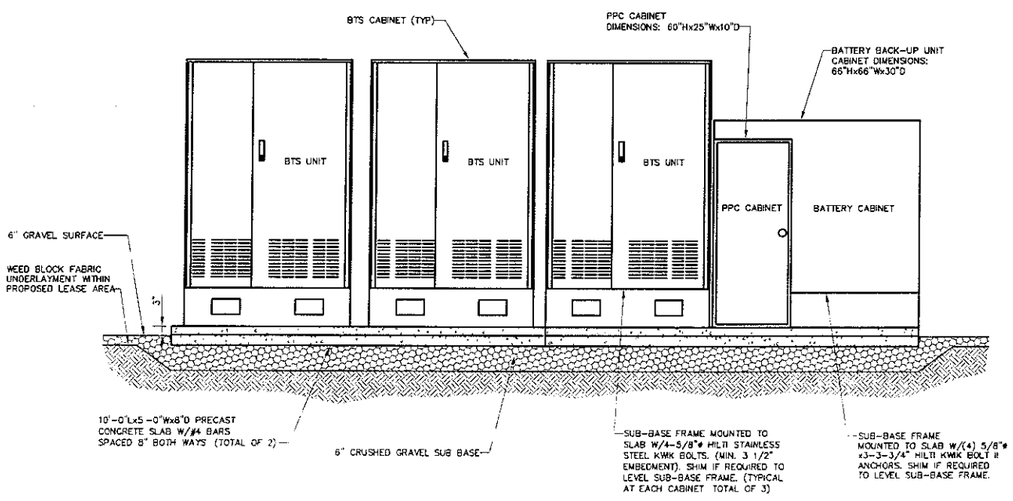
2 C06 **PROFILE AT CABLE BRIDGE**
NO SCALE

STRUCTURAL NOTES:

1. DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SUPPLEMENTS, ANSI/ASCE7 EIA/TIA-222-G STRUCTURAL STANDARDS FOR STEEL ANTENNA SUPPORTING STRUCTURES.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE CONSTRUCTION MANAGER
3. DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS"
4. STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 STRUCTURAL STEEL UNLESS OTHERWISE NOTED.
5. STEEL PIPE SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE A, OR ASTM A53 PIPE STEEL BLACK AND HOT-DIPPED ZINC-COATED WELDED AND SEAMLESS TYPE E OR S, GRADE B PIPE SIZES INDICATED ARE NOMINAL ACTUAL OUTSIDE DIAMETER IS LARGER.
6. STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS (BEARING TYPE)AND CONFORM TO ASTM A325 "HIGH STRENGTH BOLTS FOR STRUCTURAL JOINTS, INCLUDING SUITABLE NUTS AND PLAIN HARDENED WASHERS" ALL BOLTS SHALL BE 5/8" DIA UNLESS OTHERWISE NOTED.
7. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS" UNLESS OTHERWISE NOTED.
8. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
9. FIELD WELDS, DRILL HOLES, SAW CUTS AND ALL DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED WITH AN ORGANIC ZINC REPAIR PAINT COMPLYING WITH REQUIREMENTS OF ASTM A780. GALVANIZING REPAIR PAINT SHALL HAVE 65 PERCENT ZINC BY WEIGHT, ZIRP BY DUNCAN GALVANIZING, GALVA BRIGHT PREMIUM BY CROWN OR EQUAL. THICKNESS OF APPLIED GALVANIZING REPAIR PAINT SHALL BE NOT NOT LESS THAN 4 COATS (ALLOW TIME TO DRY BETWEEN COATS) WITH A RESULTING COATING THICKNESS REQUIRED BY ASTM A123 OR A153 AS APPLICABLE.
10. CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES". ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND D.I. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION" 9TH EDITION.
11. INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE CONSTRUCTION MANAGER APPROVAL.
12. UNISTRUTS SHALL BE FORMED STEEL CHANNEL STRUT FRAMING AS MANUFACTURED BY UNISTRUT CORP, WAYNE, MI OR EQUAL. STRUT MEMBERS SHALL BE 1 5/8"x1 5/8"x12GA UNLESS OTHERWISE NOTED, AND SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
13. EPOXY ANCHOR ASSEMBLY SHALL CONSSIT OF 1/2" DIAMETER STAINLESS STEEL ANCHOR ROD WITH NUTS & WASHERS, AN INTERNALLY THREADED INSERT, A SCREEEN TUBE AND A EPOXY ADHESIVE. THE ANCHORING SYSTEM SHALL BE THE HILTI-HIT HY-20 AND OR HY-150 SYSYTEMS (AS SPECIFIED ON DWG.) OR ENGINEERS APPROVED EQUAL WITH 4-1/4" MIN EMBEDMENT DEPTH, UNLESS NOTED OTHERWISE.
14. EXPANSION BOLTS SHALL CONFORM TO FEDERAL SPECIFICATION FF-S-325, GROUP II, TYPE 4, CLASS I, HILTI KWIK BOLT II OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE THREE AND ONE HALF (3 1/2) INCHES.
15. GRAVEL SUB BASE AND CONCRETE SHALL BE PLACED AGAINST UNDISTURBED SOIL.
16. CONCRETE FOR FENCE AND ICE BRIDGE SUPPORT SHALL BE 3000 PSI AIR ENTRAINED (4%-6%) NORMAL WEIGHT CONCRETE.
17. ALL CAST IN PLACE CONCRETE SHALL BE MIXED AND PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318 AND ACI 301.
18. THE FOLLOWING MINIMUM CONCRETE COVER OVER REINFORCING STEEL SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:

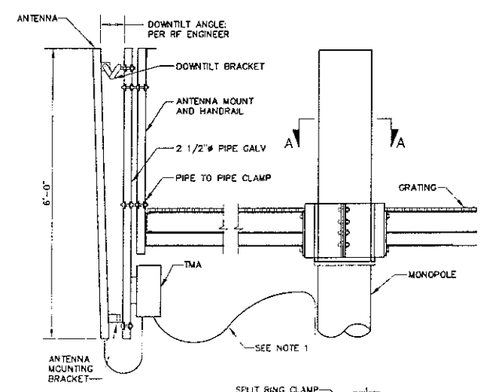
    CONCRETE CAST AGAINST EARTH . 3 INCHES.
    CONCRETE EXPOSED TO EARTH OR WATER
    #6 AND LARGER .....2 INCHES
    #5 AND SMALLER .....1 1/2 INCHES

    ALL EXPOSED EDGES SHALL BE PROVIDED WITH A 3/4"x3/4" CHAMFER UNLESS OTHERWISE NOTED.
19. LUMBER SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AND THE NATIONAL FOREST PRODUCTS ASSOCIATION'S NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. ALL LUMBER SHALL BE PRESSURE TREATED AND SHALL BE STRUCTURAL GRADE NO. 2 OR BETTER.



NOTE:
PROPOSED ICE BRIDGE NOT SHOWN FOR CLARITY

3 C06 **EQUIPMENT ELEVATION**
NO SCALE



NOTES:
1. SECURE CABLES TO GRATING WITH TIE WRAPS AT 5'-0" O.C.
2. MONOPOLE WIRELESS ANTENNA LOW PROFILE PLATFORM MANUFACTURED BY PIROD/MICROFLECT WIRELESS INFRASTRUCTURE PRODUCTS P/N 852207 (OR APPROVED EQUAL). NOTE: MOUNTING PIPES ARE INCLUDED WITH PLATFORM

SECTION A-A

4 C06 **ANTENNA MOUNTING DETAIL**
NO SCALE

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STATE OF COMMONWEALTH OF MASSACHUSETTS
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17883
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