

| | |
|---------|----------------------------|
| A.B. | ANCHOR BOLT |
| A.F.F. | ABOVE FINISHED FLOOR |
| A.F.G. | ABOVE FINISHED GRADE |
| ANT. | ALUMINUM ALUM. ANTENNA |
| APPRX. | APPROXIMATE(LY) |
| ARCH. | ARCHITECT(URAL) |
| ATC | AMERICAN TOWERS |
| BCW. | BARE COPPER WIRE |
| BLDG. | BUILDING |
| CAB. | CABINET |
| CLG. | CEILING |
| COL. | COLUMN |
| CONC. | CONCRETE |
| CONN. | CONNECTION(OR) |
| CONST. | CONSTRUCTION |
| CL | CENTERLINE |
| DIA | DIAMETER |
| DIM | DIMENSION |
| DWG | DRAWING(S) |
| E | EXISTING |
| EA. | EACH |
| EL. | ELEVATION |
| ELEC. | ELECTRICAL |
| ELEV. | ELEVATOR |
| E.M.T. | ELECTRICAL METALLIC TUBING |
| ENG. | ENGINEER |
| EQ. | EQUAL |
| EXP. | EXPANSION |
| EXT. | EXTERIOR |
| F.F. | FINISH FLOOR |
| FIN. | FINISH(ED) |
| FLR. | FLOOR |
| FT(") | FOOT(FEET) |
| GA | GAUGE |
| GI | GALVANIZE(D) |
| GPS | GLOBAL POSITIONING SYSTEM |
| GRND. | GROUND |
| HT. | HEIGHT |
| IN(") | INCH(ES) |
| LB.(#) | POUND(S) |
| L.F. | LINEAR FEET (FOOT) |
| MGB. | MASTER GROUND BAR/BUS |
| MAX. | MAXIMUM |
| MECH. | MECHANICAL |
| MFR. | MANUFACTURER |
| MHUB | MAIN HUB |
| MIN. | MINIMUM |
| MISC. | MISCELLANEOUS |
| NO.(#) | NUMBER |
| N.T.S. | NOT TO SCALE |
| O.C. | ON CENTER |
| OMNI | OMNIDIRECTIONAL ANTENNA |
| P | PROPOSED |
| PLY. | PLYWOOD |
| P.S.F. | POUNDS PER SQUARE FOOT |
| P.S.I. | POUNDS PER SQUARE INCH |
| PWR. | POWER (CABINET) |
| QTY. | QUANTITY |
| RAD.(R) | RADIUS |
| RAU | REMOTE ACCESS UNIT |
| REF. | REFERENCE |
| REQ'D. | REQUIRED |
| RGS. | RIGID GALVANIZED STEEL |
| SCH. | SCHEDULE |
| SHT. | SHEET |
| SPEC. | SPECIFICATION(S) |
| SQ. | SQUARE |
| S.S. | STAINLESS STEEL |
| STD. | STANDARD |
| STL. | STEEL |
| STRUC. | STRUCTURAL |
| TEMP. | TEMPORARY |
| TYP. | TYPICAL |
| U.G. | UNDER GROUND |
| U.L. | UNDERWRITERS LABORATORY |
| V.I.F. | VERIFY IN FIELD |
| W/ | WITH |
| W.P. | WEATHERPROOF |
| WT. | WEIGHT |

| | |
|--|-----------------------------|
| | DIAMETER |
| | SPRINKLER HEAD LOCATION |
| | GROUND ROD |
| | GROUND BUS BAR |
| | MECHANICAL |
| | GRND. CONN. |
| | CADWELD ELECTRIC PANEL SPOT |
| | ELEVATION |
| | REVISION |
| | GRID REFERENCE |
| | DETAIL REFERENCE |
| | CONCRETE |
| | CONCRETE BLOCK |
| | SHEETROCK |
| | STEEL |
| | EARTH |
| | TELCO CONDUIT |
| | POWER CONDUIT |
| | CHAIN LINK FENCE |
| | LEASE AREA |



"RF" SIGNAGE



"NO TRESPASSING" SIGNAGE



PROPOSED ATC SIGNAGE

GENERAL CONSTRUCTION NOTES:

- ALL WORK SHALL BE COMPLETED & PERFORMED IN ACCORDANCE WITH ATC STANDARDS & SPECIFICATIONS FOR DAS. PLEASE SEE THE "STANDARD SPECIFICATION FOR DAS SITES" FOR AMERICAN TOWER CORPORATION DATED 12/08/14.
- PLANS ARE NOT TO BE SCALED AND ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS SHALL VISIT THE JOB SITE AND BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE AMERICAN TOWER CORPORATION (ATC) SITE REPRESENTATIVE PRIOR TO PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL RECEIVE, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL CONTACT USA-ALERT BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING THE BEST SKILLS AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT INCLUDING CONTACT AND COORDINATION WITH THE ATC SITE REPRESENTATIVE AND WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE.
- SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH U.L. LISTED AND FIRE CODE APPROVED MATERIALS, PER PROPERTY OWNER APPROVAL.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CHAPTER 23 OF THE UBC REGARDING EARTHQUAKE PIPING, LIGHT FIXTURES, CEILING GRID, INTERIOR PARTITIONS AND MECHANICAL EQUIPMENT. ALL WORK MUST BE IN ACCORDANCE WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.
- DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
- THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, PAVING, CURBING, VEGETATION, GALVANIZED SURFACES, EXTERIOR BUILDING WALL SURFACES, EXISTING ROOF TOP SURFACE/S, ETC. AND UPON COMPLETION OF WORK REPAIR ANY DAMAGE THAT OCCURRED DURING CONSTRUCTION TO THE SATISFACTION OF THE PROPERTY OWNER.
- KEEP GENERAL AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST OR SMUDGES OF ANY NATURE.
- PENETRATIONS OF ROOF MEMBRANES SHALL BE PATCHED/FLASHED AND MADE WATERTIGHT USING LIKE MATERIALS IN ACCORDANCE WITH NRCA ROOFING STANDARDS AND DETAILS. CONTRACTOR SHALL USE APPROVED PROPERTY OWNER ROOFING CONTRACTOR.
- USE ONLY RJ-45 SHIELDED CONNECTORS. CAT5 TO BE TERMINATED AND TESTED TO TIA/EIA 568-A STANDARDS.

STANDARD CIVIL NOTES:

- ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND STIPULATED IN THE STATEMENT OF WORK (SOW).
- RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- 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 THE ATC SITE REPRESENTATIVE. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR CORE DRILLING AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW.
- ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND SHALL BE CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF ATC SITE REPRESENTATIVE.

STANDARD STRUCTURAL STEEL NOTES:

- ALL METAL WORK SHALL BE IN ACCORDANCE WITH THE SPECIFICATION GALVANIZED ASTM A36 UNLESS NOTED OTHERWISE.

CONCRETE AND REINFORCING STEEL NOTES:

- DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF ALL APPLICABLE CODES INCLUDING: ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", AND ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
- MIX DESIGN SHALL BE APPROVED BY OWNER'S REPRESENTATIVE AND SUBMITTED TO ENGINEER PRIOR TO PLACING CONCRETE.
- CONCRETE SHALL BE NORMAL WEIGHT, 6 % AIR ENTRAINED (+/- 1.5%) WITH A MAXIMUM 4" SLUMP AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI UNLESS OTHERWISE NOTED.
- THE FOLLOWING MATERIALS SHALL BE USED:
PORTLAND CEMENT: ASTM C-150, TYPE 1 OR 2
REINFORCEMENT: ASTM A-185, PLAIN STEEL WELDED WIRE FABRIC
REINFORCEMENT BARS: ASTM A615, GRADE 60, DEFORMED
NORMAL WEIGHT AGGREGATE: ASTM C-33
WATER: DRINKABLE
ADMIXTURES: NON-CHLORIDE CONTAINING
- MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS (UNLESS OTHERWISE NOTED):
a. CONCRETE CAST AGAINST EARTH: 3"
b. ALL OTHER CONCRETE: 2"
- A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE IN ACCORDANCE WITH ACI 301 SECTION 4.2.4, UNLESS NOTED OTHERWISE.
- INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL, OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE.
- ADMIXTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN ACI 301.
- DO NOT WELD OR TACK WELD REINFORCING STEEL.
- ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, GROUNDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT.
- REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
- DO NOT PLACE CONCRETE IN WATER, ICE, OR ON FROZEN GROUND.
- DO NOT ALLOW CONCRETE OR SUBBASE TO FREEZE DURING CONCRETE CURING AND SETTING PERIOD, OR FOR A MINIMUM OF 3 DAYS AFTER PLACEMENT.
- FOR COLD-WEATHER AND HOT-WEATHER CONCRETE PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS. IN EITHER CASE, MATERIALS CONTAINING CHLORIDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED. PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DAYS, MINIMUM. CONCRETE SHALL BE RUBBED TO A ROUGH GROUT FINISH. PADS SHALL BE SEALED BY STEEL TROWEL.
- UNLESS OTHERWISE NOTED:
a. ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTMA615, GRADE 60.
b. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- SPLICING OF REINFORCEMENT IS PERMITTED ONLY AT LOCATIONS SHOWN IN THE CONTRACT DRAWINGS OR AS ACCEPTED BY THE ENGINEER. UNLESS OTHERWISE SHOWN OR NOTED REINFORCING STEEL SHALL BE SPLICED TO DEVELOP ITS FULL TENSILE CAPACITY (CLASS A) IN ACCORDANCE WITH ACI 318.
- REINFORCING BAR DEVELOPMENT LENGTHS, AS COMPUTED IN ACCORDANCE WITH ACI 318, FORM THE BASIS FOR BAR EMBEDMENT LENGTHS AND BAR SPLICED LENGTHS SHOWN IN THE DRAWINGS. APPLY APPROPRIATE MODIFICATION FACTORS FOR TOP STEEL, BAR SPACING, COVER AND THE LIKE.
- DETAILING OF REINFORCING STEEL SHALL CONFORM TO "ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI 315).
- ALL SLAB CONSTRUCTION SHALL BE CAST MONOLITHICALLY WITHOUT HORIZONTAL CONSTRUCTION JOINTS, UNLESS SHOWN IN THE CONTRACT DRAWINGS.
- LOCATION OF ALL CONSTRUCTION JOINTS ARE SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, CONFORMANCE WITH ACI 318, AND ACCEPTANCE OF THE ENGINEER. DRAWINGS SHOWING LOCATION OF DETAILS OF THE PROPOSED CONSTRUCTION JOINTS SHALL BE SUBMITTED WITH REINFORCING STEEL PLACEMENT DRAWINGS
- SPLICES OF WWF, AT ALL SPLICED EDGES, SHALL BE SUCH THAT THE OVERLAP MEASURED BETWEEN OUTERMOST CROSS WIRES OF EACH FABRIC SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRE PLUS 2 INCHES, NOR LESS THAN 8".
- BAR SUPPORTS SHALL BE ALL GALVANIZED METAL WITH PLASTIC TIPS. ALL REINFORCEMENT SHALL BE SECURELY TIED IN PLACE TO PREVENT DISPLACEMENT BY CONSTRUCTION TRAFFIC OR CONCRETE. TIE WIRE SHALL BE 16 GAUGE CONFORMING TO ASTM A82.
- SLAB ON GROUND
a. COMPACT STRUCTURAL FILL TO 95% DENSITY AND THEN PLACE 6" GRAVEL BENEATH SLAB.
b. PROVIDE VAPOR BARRIER BENEATH SLAB ON GROUND.



PROJECT INFORMATION:

MARTHA'S VINEYARD NODE
55 TABOR HOUSE ROAD
CHILMARK, MA 02535

CURRENT ISSUE DATE:

03/30/16

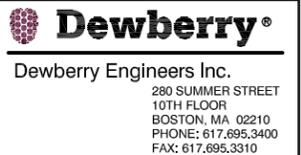
ISSUED FOR:

REVISIONS

REV.: DATE: ISSUED FOR:

| A | 02/12/16 | PRELIMINARY |
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PLANS PREPARED BY:



PROJECT NO.: JOB NO.:

50056731 50056749

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DRAWN BY: CHK.: APV.:

JG DAS BBR

LICENSURE:

SHEET TITLE:

GENERAL NOTES,
LEGEND AND
ABBREVIATIONS

SHEET NUMBER: REVISION:

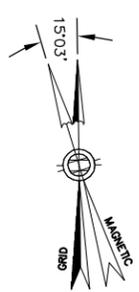
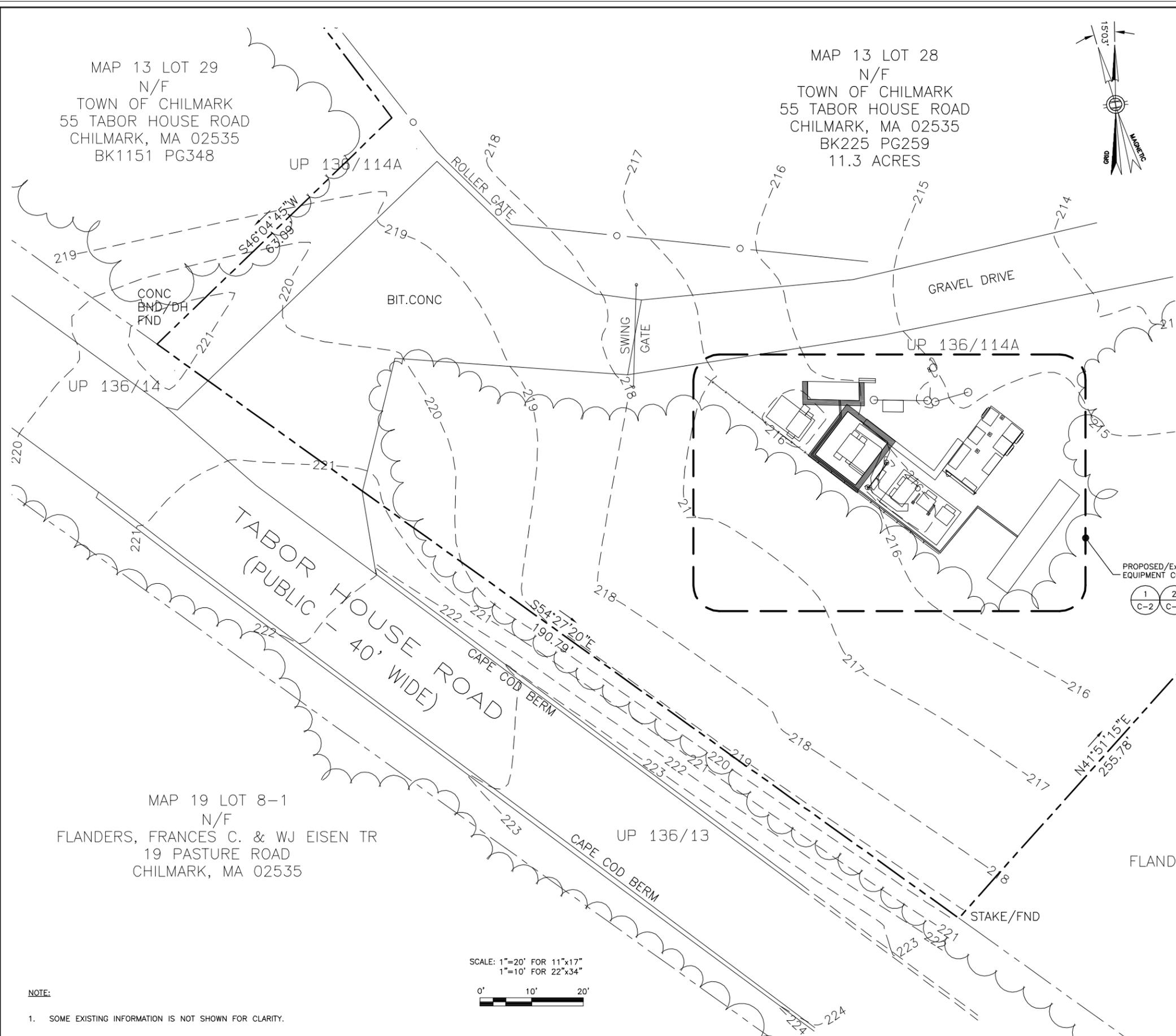
T2 1

MAP 13 LOT 29
N/F
TOWN OF CHILMARK
55 TABOR HOUSE ROAD
CHILMARK, MA 02535
BK1151 PG348

MAP 13 LOT 28
N/F
TOWN OF CHILMARK
55 TABOR HOUSE ROAD
CHILMARK, MA 02535
BK225 PG259
11.3 ACRES

MAP 19 LOT 8-1
N/F
FLANDERS, FRANCES C. & WJ EISEN TR
19 PASTURE ROAD
CHILMARK, MA 02535

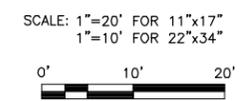
MAP 13 LOT 27-1
N/F
FLANDERS, MARTHA & STEPHEN B., TRS.
41 TABOR HOUSE ROAD
CHILMARK, MA 02535
BK1263 PG87



- ### GENERAL NOTES
- FIELD SURVEY DATE: AUGUST 12, 2014
 - VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988.
 - HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) GEOID 09.
 - APPROXIMATE EXISTING COMPOUND: LAT 41°21'56" N
LON 70°43'37" W
GROUND EL= 215.5'
 - SITE NAME: MARTHA'S VINEYARD NODE
 - SITE NUMBER: 345277
 - SITE ADDRESS: 55 TABOR HOUSE ROAD
CHILMARK, MA 02535
 - JURISDICTION: TOWN OF CHILMARK, MA
 - GRID NORTH BASED ON GPS
 - ELEVATIONS AND COORDINATES FROM GPS LOCATIONS.
 - ALL UNDERGROUND UTILITY INFORMATION PRESENTED HEREON WAS DETERMINED FROM SURFACE EVIDENCE AND PLANS OF RECORD. ALL UNDERGROUND UTILITIES SHOULD BE LOCATED IN THE FIELD PRIOR TO COMMENCEMENT OF ALL SITE WORK. CALL DIGSAFE (1800) 322-4844 A MINIMUM OF 72 HOURS PRIOR TO PLANNED ACTIVITY.
 - BEARING SYSTEM OF THIS PLAN IS BASED ON GRID NORTH.
 - SURVEY PERFORMED BY: COLONIAL SURVEY CO. INC
28 WOODLAND WAY
STOW, MA 01775

LEGEND

| | |
|--|-------------------------|
| | LOCUS PROPERTY LINE |
| | Abutter Property Line |
| | Edge Of Pavement/Gravel |
| | Existing Contour |
| | Existing Treeline |
| | Existing Overhead Wires |
| | Existing Fence |
| | Existing Utility Pole |
| | Drill Hole Found |



NOTE:
1. SOME EXISTING INFORMATION IS NOT SHOWN FOR CLARITY.



PROJECT INFORMATION:
MARTHA'S VINEYARD NODE
55 TABOR HOUSE ROAD
CHILMARK, MA 02535

CURRENT ISSUE DATE:
03/30/16

ISSUED FOR:
REVISIONS

| REV. DATE | ISSUED FOR |
|------------|---------------|
| A 02/12/16 | PRELIMINARY |
| 0 03/11/16 | FOR SUBMITTAL |
| 1 03/30/16 | FOR SUBMITTAL |

PLANS PREPARED BY:
Dewberry
Dewberry Engineers Inc.
280 SUMMER STREET
10TH FLOOR
BOSTON, MA 02210
PHONE: 617.895.3400
FAX: 617.895.3310

PROJECT NO.: 50056731
JOB NO.: 50056749

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DRAWN BY: JG
CHK.: DAS
APV.: BBR

LICENSURE:
SHEET TITLE:

EXISTING SITE PLAN

SHEET NUMBER: **C1**
REVISION: **1**



PROJECT INFORMATION:
 MARTHA'S VINEYARD NODE
 55 TABOR HOUSE ROAD
 CHILMARK, MA 02535

CURRENT ISSUE DATE:
 03/30/16

ISSUED FOR:
REVISIONS

| REV. DATE | ISSUED FOR |
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| 0 03/11/16 | FOR SUBMITTAL |
| 1 03/30/16 | FOR SUBMITTAL |

| REV. DATE | ISSUED FOR |
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PLANS PREPARED BY:
Dewberry Engineers Inc.
 280 SUMMER STREET
 10TH FLOOR
 BOSTON, MA 02210
 PHONE: 617.695.3400
 FAX: 617.695.3310

PROJECT NO.: 50056731 JOB NO.: 50056749

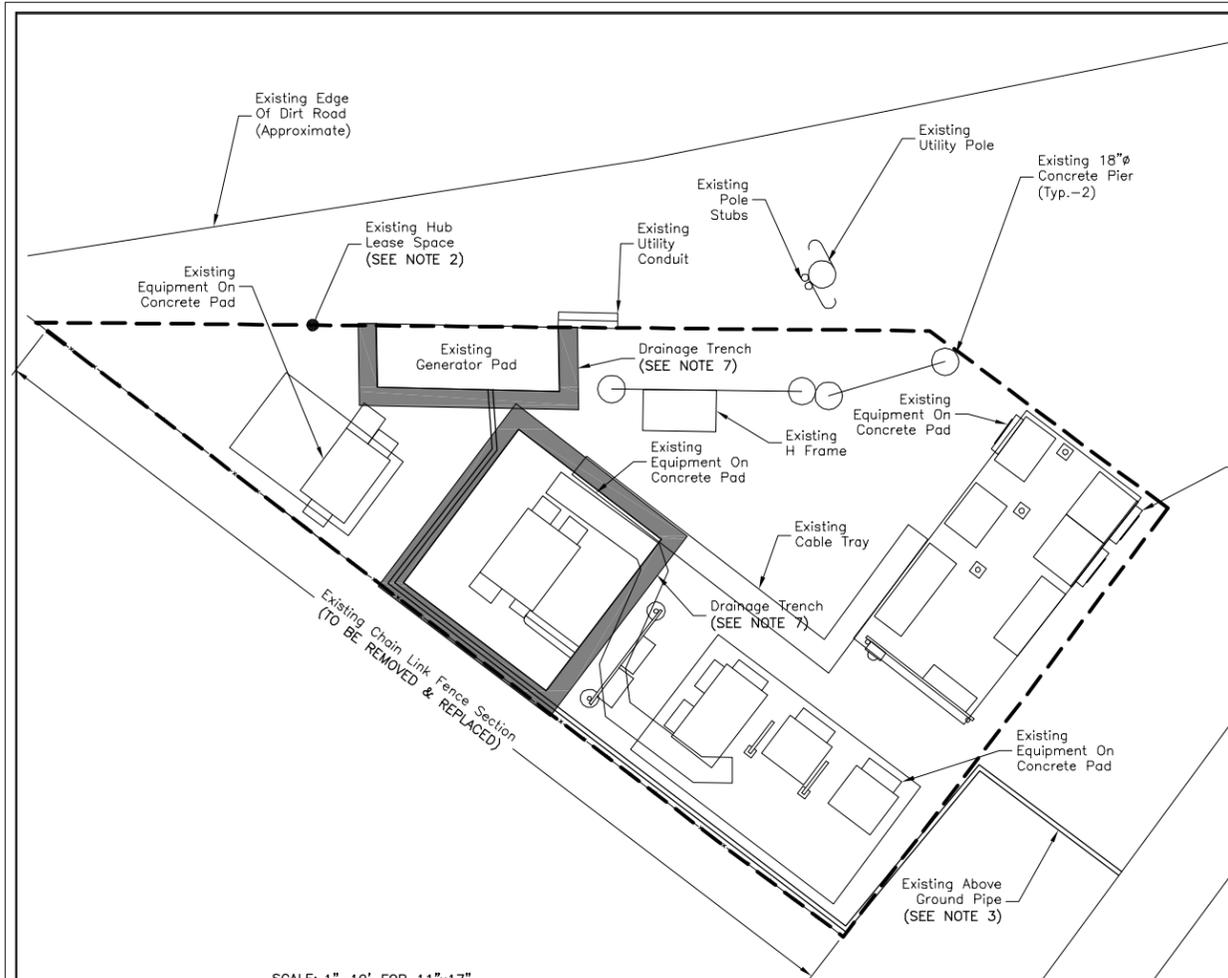
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LICENSURE:

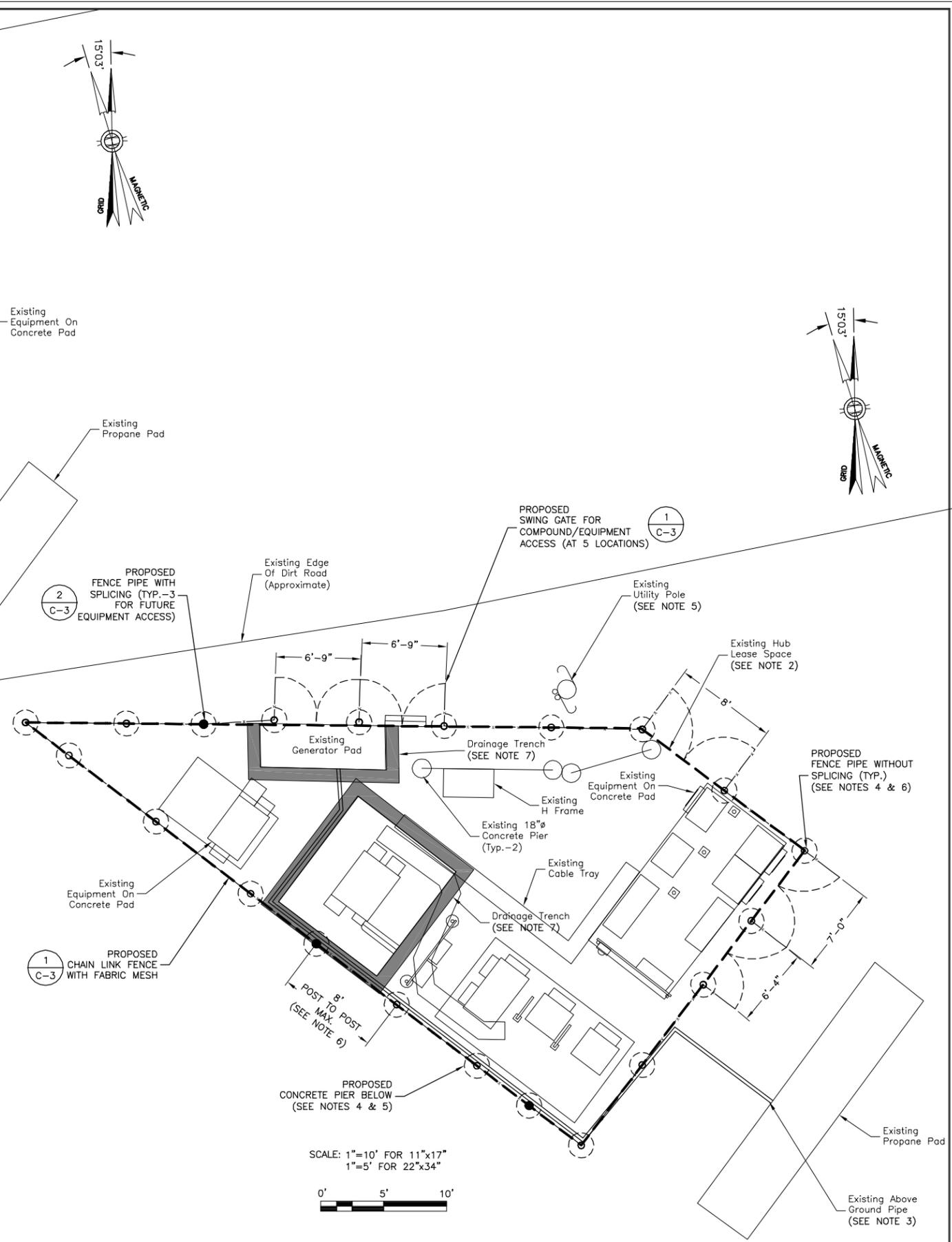
SHEET TITLE:
LEASE PLAN & DETAILED COMPOUND PLAN

SHEET NUMBER: **C2** REVISION: **1**



SCALE: 1"=10' FOR 11"x17"
 1"=5' FOR 22"x34"
 0' 5' 10'

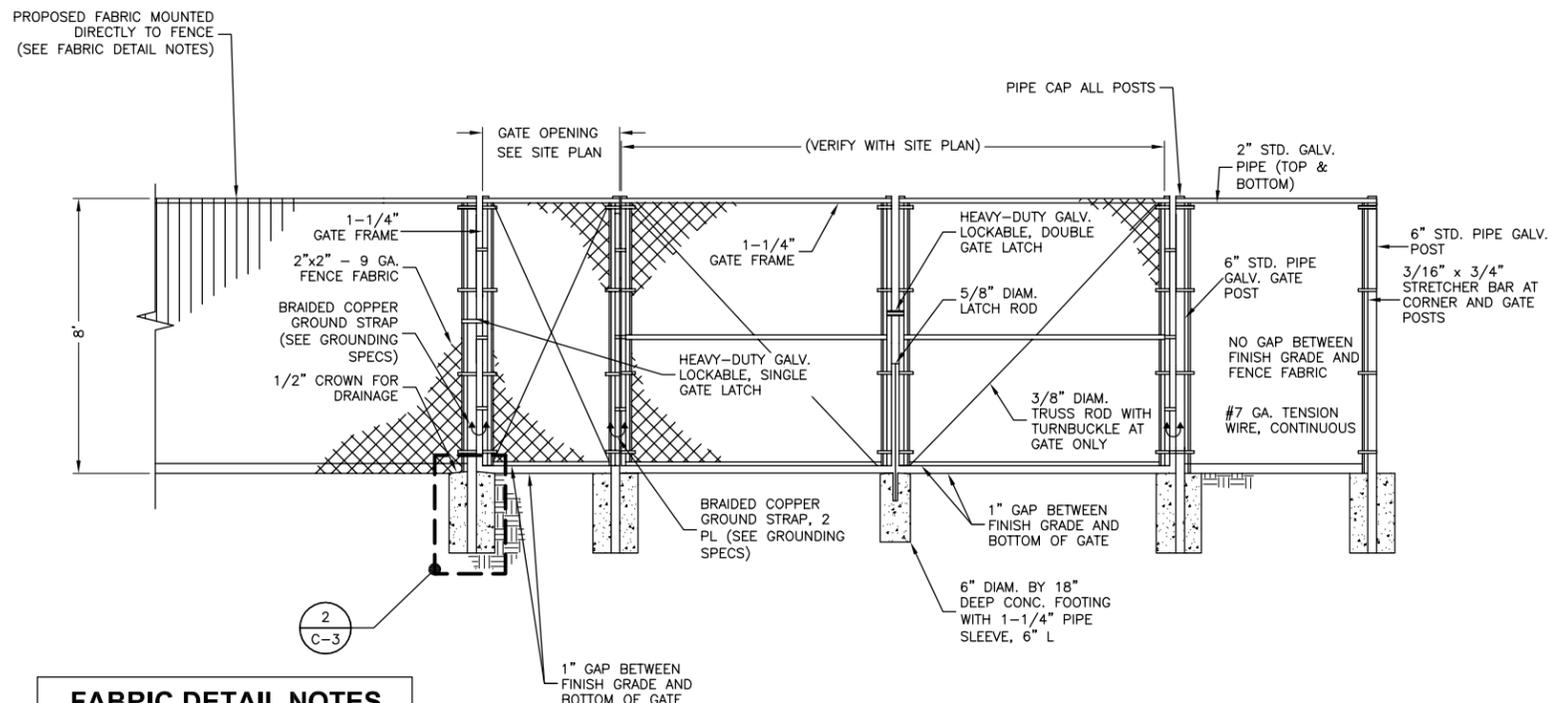
- NOTES:**
- SOME EXISTING INFORMATION IS NOT SHOWN FOR CLARITY.
 - EXISTING COMPOUND LEASE SPACE SHOWN IS APPROXIMATE AND BASED ON EXISTING DRAWINGS TITLED "PLAN OF LAND IN CHILMARK, MA. PREPARED FOR AMERICAN TOWER BY VINEYARD LAND SURVEYING & ENGINEERING, INC."
 - CONTRACTOR TO VERIFY LOCATION OF EXISTING PIPE LINE PRIOR TO CONSTRUCTION. CONTRACTOR TO TAKE ALL NECESSARY SAFETY PRECAUTIONS TO ENSURE EXISTING PIPE LINE REMAINS UNDISTURBED DURING CONSTRUCTION OPERATIONS.
 - HAND DIG HOLES FOR CONCRETE INSTALLATION OR CONTRACTOR TO VERIFY DEPTH TO LANDFILL CAP WITH GPR TESTING OR OTHER APPROVED MEANS PRIOR TO CONSTRUCTION.
 - FIELD LOCATE UNDERGROUND UTILITIES & GROUNDING SYSTEM PRIOR TO CONSTRUCTION.
 - DO NOT BLOCK EXISTING EQUIPMENT ACCESS WITH PROPOSED FENCE OR POSTS.
 - DRAINAGE TRENCH LOCATION SHOWN IS APPROXIMATE AND BASED ON EXISTING DRAWINGS TITLED "DRAINAGE PLAN IN CHILMARK, MA. PREPARED FOR AMERICAN TOWER BY VINEYARD LAND SURVEYING & ENGINEERING, INC." DATED 10/08/10. FIELD LOCATE UNDERGROUND DRAINAGE PIPE PRIOR TO FENCE INSTALLATION.



SCALE: 1"=10' FOR 11"x17"
 1"=5' FOR 22"x34"
 0' 5' 10'

1 DETAILED EXISTING COMPOUND PLAN

2 DETAILED PROPOSED COMPOUND PLAN



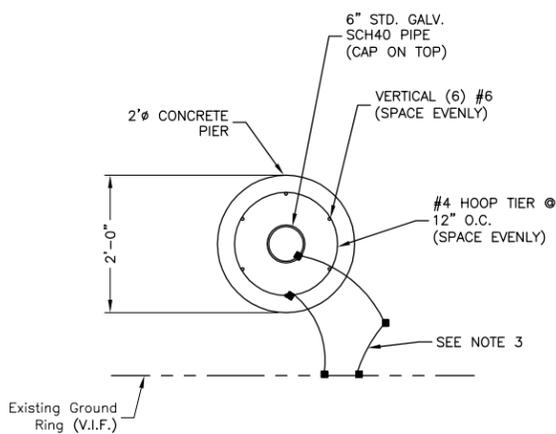
FABRIC DETAIL NOTES

- VINYL-COATED POLYESTER FABRIC, MESH 80% (CI FABRICS TERMATX TM SERIES).
- CONTRACTOR TO ADHERE FABRIC TO FENCE PER MANUFACTURER SPECIFICATIONS & RECOMMENDATIONS.

FENCE NOTES:

- ATTACH EACH GATE WITH 1-1/2 PAIR OF NON-LIFT-OFF TYPE, MALLEABLE IRON OR FORGING, PIN-TYPE HINGES. ASSEMBLIES SHALL ALLOW FOR 180' OF GATE TRAVEL.
- HAND DIG HOLES FOR CONCRETE INSTALLATION OR CONTRACTOR TO VERIFY DEPTH TO LANDFILL CAP WITH GPR TESTING OR OTHER APPROVED MEANS PRIOR TO CONSTRUCTION.
- FIELD LOCATE UNDERGROUND UTILITIES & GROUNDING SYSTEM PRIOR TO CONSTRUCTION.

1 GATE & FENCE DETAIL (N.T.S.)



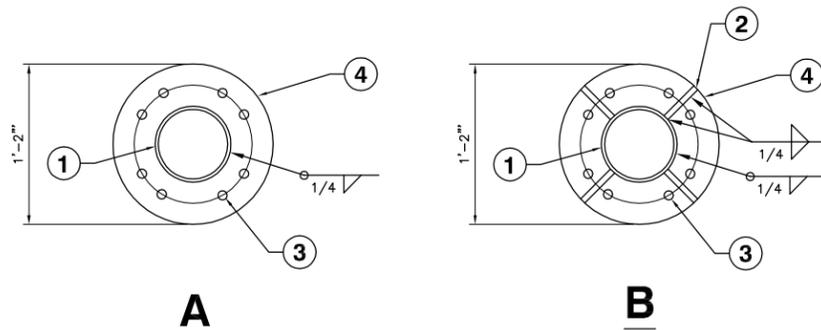
NOTES:

- HAND DIG HOLES FOR CONCRETE INSTALLATION OR CONTRACTOR TO VERIFY DEPTH TO LANDFILL CAP WITH GPR TESTING OR OTHER APPROVED MEANS PRIOR TO CONSTRUCTION.
- FIELD LOCATE UNDERGROUND UTILITIES & GROUNDING SYSTEM PRIOR TO CONSTRUCTION.
- GROUND FENCE POSTS AND REBAR PER NEC AND TIE TO EXISTING GROUND RING.

SCALE: 3/8"=1' FOR 11"x17"
3/4"=1' FOR 22"x34"



3 CONCRETE PIER PLAN DETAIL

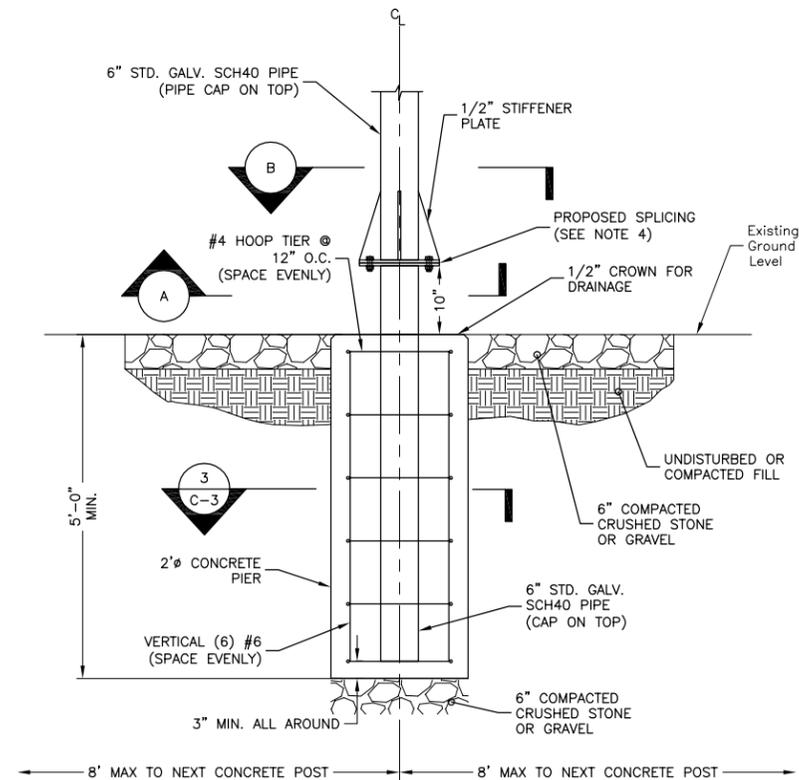


| NUMBER | ITEM |
|--------|------------------------------------|
| 1 | 6" STD PIPE-GALV. |
| 2 | 1/2"x12" TALL STIFFENER PLATE |
| 3 | 3/4" ASTM A325 BOLT |
| 4 | 1/2"x1'-2" DIA. SPLICE PLATE-GALV. |

SCALE: 3/4"=1' FOR 11"x17"
1 1/2"=1' FOR 22"x34"



4 PIPE MOUNT SECTIONS



NOTES:

- DETAIL SHALL BE GROUNDED PER ATC AND NEC STANDARDS.
- HAND DIG HOLES FOR CONCRETE INSTALLATION OR CONTRACTOR TO VERIFY DEPTH TO LANDFILL CAP WITH GPR TESTING OR OTHER APPROVED MEANS PRIOR TO CONSTRUCTION.
- FIELD LOCATE UNDERGROUND UTILITIES & GROUNDING SYSTEM PRIOR TO CONSTRUCTION.
- PIPE SPLICING REQUIRED AT (3) LOCATIONS. SEE SITE PLAN ON SHEET C-2 DETAIL 2 FOR SPLICE PIPE LOCATIONS.

2 REMOVABLE EQUIPMENT ACCESS POST SECTION DETAIL

STRUCTURAL STEEL NOTES:

- STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- STRUCTURAL STEEL ROLLED SHAPES, PLATES, AND BARS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS:

| | |
|--------------------------|--|
| ASTM A-992, GRADE 50 | ALL W SHAPES, UNLESS NOTED OR A992 OTHERWISE. |
| ASTM A-36 | ALL OTHER ROLLED SHAPES, PLATES AND BARS UNLESS NOTED OTHERWISE. |
| ASTM A-500, GRADE B | HSS SECTION (SQUARE, RECTANGULAR, ROUND) |
| ASTM A-325, TYPE SC OR N | ALL BOLTS FOR CONNECTING STRUCTURAL MEMBERS. |
| F1554, GRADE 36 | ALL ANCHORS BOLTS, UNLESS NOTED OTHERWISE. |
| ASTM A-53, GRADE B | STEEL PIPE |
- ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND AWS D1.1 WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 14TH EDITION. WHERE WELD LENGTH IS NOT INDICATED, USE FULL LENGTH WELD. AT THE COMPLETION OF ALL WELDING, ALL DAMAGE TO GALVANIZED COATING SHALL BE REPAIRED.
- BOLTED CONNECTIONS SHALL USE BEARING TYPE GALVANIZED ASTM A325 BOLTS (3/4" DIA.) SUPPLIED WITH A NUT AND WASHER UNDER TURNED END AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
- DO NOT DRILL HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
- NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. GALVANIZED ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.
- USE PRECAUTIONS & PROCEDURES PER AWS D1.1 WHEN WELDING GALVANIZED METALS.
- ALL EXISTING BEAM AND COLUMN DIMENSIONS SHALL BE FIELD VERIFY BY CONTRACTOR PRIOR TO FABRICATION. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THOSE SHOWN SHALL BE REPORTED TO DEWBERRY ENGINEER IMMEDIATELY.
- CONNECTION DESIGN BY FABRICATOR WILL BE SUBJECT TO REVIEW AND APPROVAL BY ENGINEER.
- ALL EXTERIOR STEEL WORK SHALL BE GALVANIZED IN ACCORDANCE WITH SPECIFICATION ASTM A123/A123M-00 HOT-DIP GALVANIZED FINISH UNLESS OTHERWISE NOTED. GALVANIZING SHALL BE PERFORMED AFTER SHOP FABRICATION TO THE GREATEST EXTENT POSSIBLE. ALL DINGS, SCRAPES, MARS, AND WELDS IN THE GALVANIZED AREAS SHALL BE REPAIRED. REPAIR DAMAGED GALVANIZED COATINGS ON GALVANIZED ITEMS WITH GALVANIZED REPAIR PAINT ACCORDING TO ASTM A780 AND MANUFACTURER'S WRITTEN INSTRUCTIONS, PRIOR TO COMPLETION OF WORK. TOUCHUP ALL DAMAGED GALVANIZED STEEL WITH APPROVED COLD ZINC, "GALVANOX", "DRY GALV", "ZINC-IT", OR APPROVED EQUIVALENT, IN ACCORDANCE WITH MANUFACTURERS GUIDELINES. TOUCHUP DAMAGED NON GALVANIZED STEEL WITH SAME PAINT APPLIED IN SHOP OR FIELD.



PROJECT INFORMATION:

MARTHA'S VINEYARD NODE
55 TABOR HOUSE ROAD
CHILMARK, MA 02535

CURRENT ISSUE DATE:

03/30/16

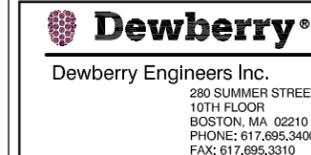
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REVISIONS

REV. DATE ISSUED FOR:

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PLANS PREPARED BY:



PROJECT NO.:

50056731

JOB NO.:

50056749

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CONSTRUCTION DETAILS

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PROJECT INFORMATION:

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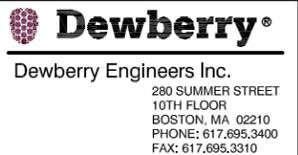
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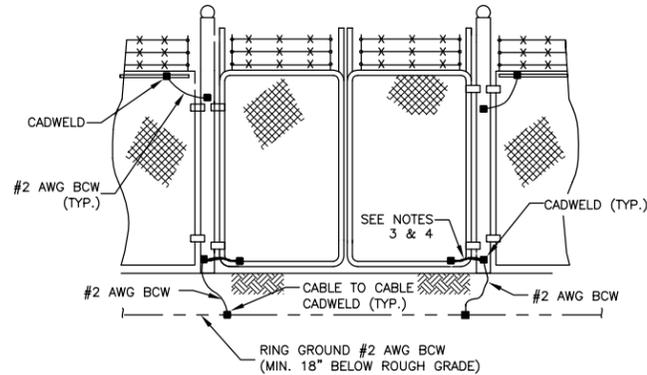
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SHEET TITLE:

GROUNDING DETAILS

SHEET NUMBER: REVISION:

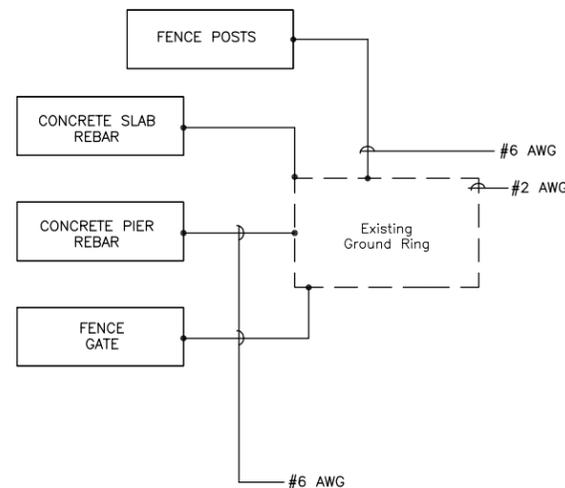
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NOTES:

1. THE #2 AWG, BCW, FROM THE RING GROUND SHALL BE CADWELDED TO THE POST ABOVE GRADE.
2. BOND EACH HORIZONTAL POLE/BRACE TO EACH OTHER AND TO EACH VERTICAL POLE BONDED TO THE EXTERIOR GROUND RING.
3. GATE JUMPER SHALL BE #4/0 AWG WELDING CABLE OR FLEXIBLE COPPER BRAID BURNDY TYPE B WITH SLEEVES ON EACH END DESIGNED FOR EXOTHERMIC WELDING.
4. GATE JUMPER SHALL BE INSTALLED SO THAT IT WILL NOT BE SUBJECTED TO DAMAGING STRAIN WHEN GATE IS FULLY OPEN IN EITHER DIRECTION.

1 FENCE GROUNDING



NOTES:

1. GROUNDING RING IS SHOWN AS SCHEMATIC ONLY. IT IS DESIGNED WITHOUT A BENEFIT OF RESISTIVITY TESTING AND DOES NOT NECESSARILY REPRESENT A GROUNDING SYSTEM TO MEET ANY SPECIFIC GROUND RESISTANCE.
2. TEST COMPLETED GROUND SYSTEM AND RECORD RESISTANCE VALUES FOR PROJECT CLOSE-OUT DOCUMENTATION. GROUNDING RESISTANCE SHALL NOT EXCEED 5 OHMS.

GROUNDING GENERAL NOTES:

1. ALL DOWN CONDUCTORS AND THE GROUND RING CONDUCTOR SHALL BE #4/0 AWG, SOLID, BARE, TINNED COPPER, UNLESS OTHERWISE NOTED. ALL CONNECTIONS TO GROUND RING SHALL BE EXOTHERMICALLY WELDED. CONDUCTOR SHALL BE AT A MINIMUM DEPTH BELOW GRADE OF 18 INCHES OR TO LEDGE. MINIMUM BEND RADIUS SHALL BE 8 INCHES. CONDUCTOR SHALL BE AT LEAST 24 INCHES FROM ANY FOUNDATION, UNLESS OTHERWISE NOTED.
2. GROUND RODS SHALL BE 5/8" DIAMETER 10' LONG COPPER CLAD, HARGER, T&B, ERICO, OR EQUIVALENT. TOP OF ROD SHALL BE A MINIMUM OF 18" BELOW GRADE. IF LEDGE IS ENCOUNTERED, INSTALL GROUND ROD AT AN ANGLE. ELECTRICAL METER GROUND ROD EXCEPTED.
3. WHERE MECHANICAL CONNECTIONS ARE SPECIFIED, BOLTED, COMPRESSION-TYPE, CLAMPS OR SPLIT-BOLT TYPE CONNECTORS SHALL BE USED.
4. GRIND OFF GALVANIZING IN AFFECTED AREA. EXOTHERMICALLY WELD #4/0 CONDUCTOR AT 6" ABOVE GRADE OR FOUNDATION, WHICHEVER IS HIGHER. COLD-GALV AFTER. EXOTHERMICALLY WELD OTHER END TO GROUND RING.
5. INSTALL GROUNDING KITS AT ANTENNA CENTERLINE, AND TOWER EXIT POINTS. GROUND COAX LINES. EXOTHERMICALLY WELD #2 DOWN CONDUCTOR TO PLATES, RUN DOWN TOWER, AND TIE INTO GROUNDING SYSTEM.
6. ALL GROUNDING WORK SHALL COMPLY WITH ATC CONSTRUCTION CONTRACT STANDARDS. FOLLOWING COMPLETION OF WORK, GROUND SYSTEM MUST BE TESTED AND SHALL HAVE A RESISTANCE OF 5 OHMS OR LESS SUBMIT AN INDEPENDENT "FALL POTENTIAL" TESTING REPORT.
7. ALL GROUNDING CONDUCTORS ON EXTERIOR WALL OF SHELTER SHALL BE INSTALLED IN 3/4" SCH 40 PVC CONDUIT TO 12" BELOW GRADE. ATTACH PVC WITH GALVANIZED "C" CLAMPS.
8. CONTRACTOR SHALL HAND-DIG IN AREAS AROUND EXISTING UTILITIES.
9. NOTIFY CONSTRUCTION ENGINEER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.
10. GROUNDING RING IS SHOWN AS SCHEMATIC ONLY. IT IS DESIGNED WITHOUT BENEFIT OF RESISTIVITY TESTING AND DOES NOT NECESSARILY REPRESENT A GROUNDING SYSTEM TO MEET ANY SPECIFIC GROUND RESISTANCE.
11. PRIOR TO POURING CONCRETE, ALL REBAR LOCATED NEAR THE BOTTOM OF THE FOUNDATION SHALL BE BONDED TOGETHER TO FORM A SINGLE GROUNDING ELECTRODE, BY STEEL TIES OF OTHER EFFECTIVE MEANS APPROVED BY NEC 2014 AND STRUCTURAL ENGINEER, AND BONDED TO THE GROUND RING AS DETAILED IN THESE PLANS. (INSPECTION MAY BE REQUIRED PRIOR TO POURING CONCRETE AND MUST BE COORDINATED BY CONTRACTOR.)
12. IN ACCORDANCE WITH NEC 2014 REQUIREMENTS, ALL GROUNDING ELECTRODES PRESENT ON SITE SHALL BE BONDED TOGETHER (REFERENCE 2014 NEC ARTICLE 250.50).

2 GROUNDING DIAGRAM & NOTES