

JESSE A. LANGER

PLEASE REPLY TO: Bridgeport
E-Mail Address: jlanger@cohenandwolf.com

December 17, 2010

ORIGINAL

VIA FEDERAL EXPRESS and ELECTRONIC MAIL

Ms. Linda L. Roberts
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

RECEIVED
DEC 20 2010

CONNECTICUT
SITING COUNCIL

**Re: Docket No. 399,
Application by T-Mobile Northeast LLC for a Certificate
of Environmental Compatibility and Public Need for a
Telecommunications Facility at 166 Pawcatuck Avenue
in the Town of Stonington, Connecticut**

Dear Ms. Roberts:

Please find enclosed twenty-two (22) sets of the Development and Management Plan ("D&M Plan") pertaining to the telecommunications facility approved by the Connecticut Siting Council ("Council") in the above-captioned docket. The Applicant, T-Mobile Northeast LLC ("T-Mobile"), submits this D&M Plan in accordance with the Council's Decision and Order ("Decision") and Certificate of Environmental Compatibility and Public Need ("Certificate"), dated August 26, 2010.

Additionally, please find enclosed twenty-two (22) copies of the following: (1) the tower specifications and (2) a letter regarding the tower's yield point.

Development and Management Plan

Pursuant to Order Number 1, the telecommunications facility to be located at 166 Pawcatuck Avenue ("Facility") includes a monopole at a height of 120 feet above grade level ("AGL") with antennas to be mounted on T-arms. The monopole would accommodate the antennas of T-Mobile, Cellco Partnership d.b.a. Verizon Wireless and two other wireless providers, as well as the emergency communications equipment of the Town of Stonington ("Town"). As designed, the monopole would include a yield point at a height of approximately 100 feet AGL.

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Connecticut Siting Council
December 17, 2010
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Pursuant to Order Number 2, T-Mobile has prepared a D&M Plan in accordance with the Decision and applicable regulations. The proposed D&M Plan includes detailed plans of the tower, tower foundation, antennas, equipment compound, radio equipment, access road, utility line and landscaping. Also included are construction plans for site clearing, grading, landscaping, water drainage, and erosion and sedimentation controls consistent with the *2002 Connecticut Guidelines for Soil Erosion and Sediment Control*, as amended.

Pursuant to Order Number 3, prior to commencement of operation, T-Mobile will provide the Council with worst-case modeling of electromagnetic radio frequency power density of all proposed entities' antennas at the closest point of uncontrolled access to the Facility base.

Pursuant to Order Number 6, T-Mobile shall provide reasonable space on the Facility for no compensation for the Town public safety services (police, fire and medical services), provided such use can be accommodated and is compatible with the structural integrity of the Facility.

Conclusion

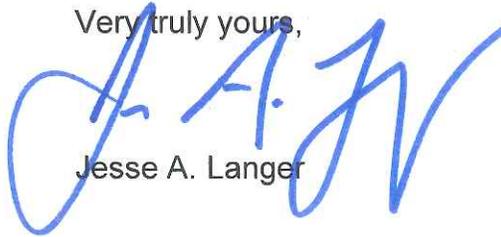
In accordance with the provisions of § 16-50j-77 of the Regulations of Connecticut State Agencies and Order Number 12, T-Mobile hereby notifies the Council of its intention to commence clearing and related site work immediately upon D&M Plan approval and to commence other construction activities immediately upon issuance of a building permit by the Town. The supervisor for all construction related matters on this project is Brian Paul of T-Mobile, and he can be reached by phone at (860) 550-5971.

T-Mobile respectfully requests that this matter be included on the Council's next agenda for review and approval. In the event that the Council requires additional information prior to completing its review of the D&M Plan, T-Mobile respectfully requests that partial approval be granted in order to allow T-Mobile to commence clearing and excavation work.

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December 17, 2010
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Please contact me if you have any questions.

Very truly yours,

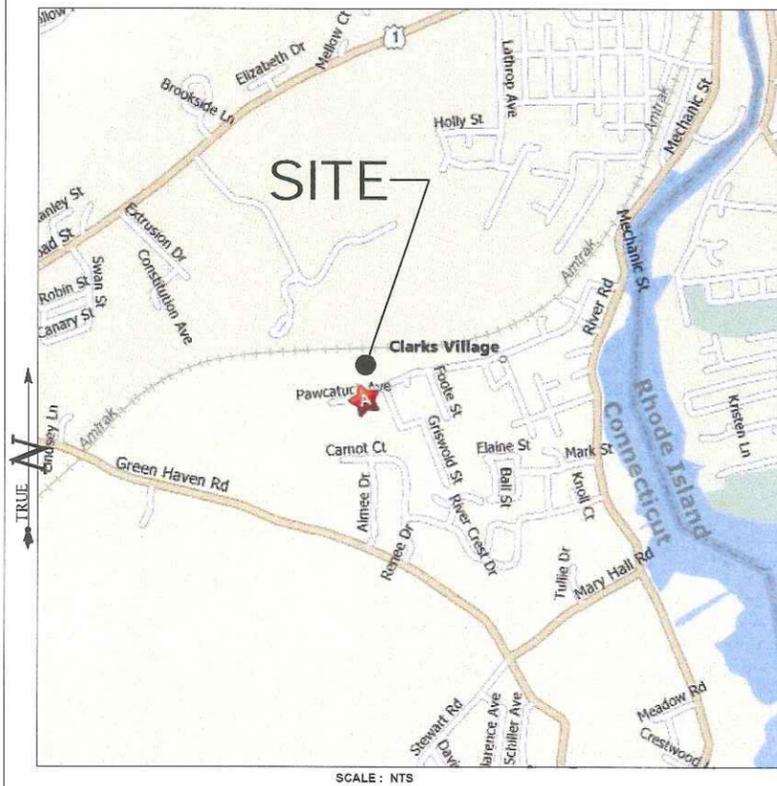
A handwritten signature in blue ink, appearing to read 'J. A. Langer', is written over the typed name.

Jesse A. Langer

JAL:dln
Enclosures

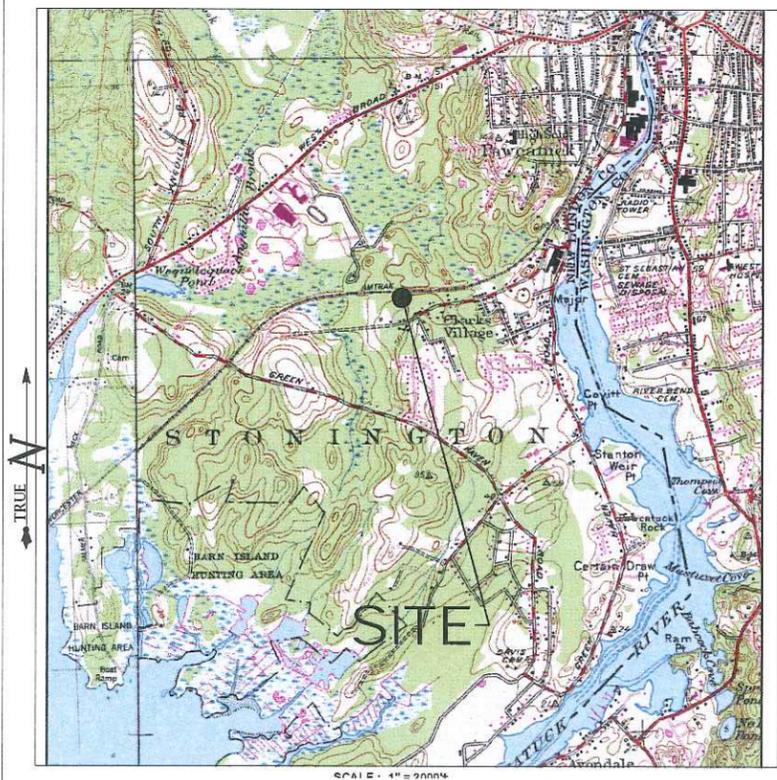
cc: Service List
Town of Stonington

LOCATION MAP



SCALE: NTS

USGS TOPOGRAPHIC MAP



SCALE: 1" = 2000'

T-Mobile

**35 GRIFFIN ROAD
BLOOMFIELD, CT 06002**

**OFFICE: (860)-692-7100
FAX: (860)-692-7159**

DEVELOPMENT & MANAGEMENT PLAN DRAWING INDEX

- | | |
|--|----------------------------------|
| T-1 TITLE SHEET & INDEX | C-2 VZW EQUIPMENT PLAN & DETAILS |
| R-1 ABUTTERS MAP & CONSTRUCTION SEQUENCE | S-1 COMPOUND DETAILS |
| SP-1 SITE PLAN | N-1 NOTES & SPECIFICATIONS |
| A-1 COMPOUND PLAN & TOWER ELEVATION | |
| C-1 T-MOBILE EQUIPMENT PLAN & DETAILS | |

***SITE INFORMATION:**

-SITE NAME:..... AMTRAK STONINGTON 3
-SITE ID NUMBER:..... CTNL813A
-SITE ADDRESS:..... 166 PAWCATUCK AVENUE
PAWCATUCK, CT 06379

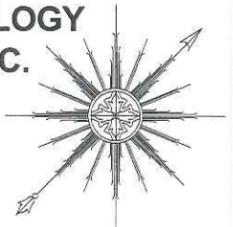
-MAP:..... 26
-BLOCK:..... 2
-LOT:..... 1

-ZONE:..... RR 80
-LATITUDE:..... 41° 21' 37.75" N
-LONGITUDE:..... 71° 51' 08.75" W
-ELEVATION:..... 51'± AMSL
-FEMA/FIRM
DESIGNATION:..... ZONE 'C'
-ACREAGE:..... 5.02 Ac

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ALL-POINTS TECHNOLOGY CORPORATION, P.C.

3 SADDLEBROOK DRIVE
KILLINGWORTH, CT. 06419
PHONE: (860)-663-1697
FAX: (860)-663-0935
www.allpointstech.com



CONTACT PERSONNEL

APPLICANT:
T-MOBILE NORTHEAST LLC
35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

LANDLORD:
WARREN D. & PATRICIA L. MAIN
166 PAWCATUCK AVENUE
PAWCATUCK, CT 06379

T-MOBILE PROJECT MANAGER:
BRIAN PAUL (860) 550-5971

T-MOBILE PROJECT ATTORNEY:
JULIE D. KOHLER, ESQ.
COHEN AND WOLF, P.C.
1115 BROAD STREET
BRIDGEPORT, CT 06604
203-337-4157

POWER PROVIDER:
CL&P (860) 447-5707
CHRIS CASTELLI - CASE# 1360257

TELCO PROVIDER:
AT&T: (800)-727-8368

CALL BEFORE YOU DIG:
(800) 922-4455

GOVERNING CODES:
2005 CONNECTICUT BUILDING CODE (2003 IBC BASIS)
NATIONAL ELECTRIC CODE
EIA/TIA 222F

SITE INFORMATION

**CTNL813A
AMTRAK STONINGTON 3
166 PAWCATUCK AVENUE
PAWCATUCK, CT 06379**

DEVELOPMENT & MANAGEMENT DOCUMENTS

AMTRAK STONINGTON 3
166 PAWCATUCK AVENUE
PAWCATUCK, CT 06379

DESIGN TYPE:
RAW LAND

REVISIONS:
REV.0: 11/23/10: FOR REVIEW: SMC
REV.1: 12/17/10: FOR PERMIT: SMC
REV.2:
REV.3:
REV.4:

TITLE SHEET AND INDEX

APT FILING NUMBER: CT-265T-520
APT DRAWING NUMBER: CTNL813A T-1.DWG
DRAWN BY: RCB
CHECKED BY: SMC
SCALE: AS NOTED
DATE: 11/12/10

SHEET NUMBER:
T-1



MAP ID: 25-1-19-1
176 SOUTH BROAD STREET
LAND NOW OR FORMERLY OF
TOWN OF STONINGTON
176 SOUTH BROAD STREET
STONINGTON, CT 06378
ADDITIONAL MAILING:
152 ELM STREET
STONINGTON, CT 06378

MAP ID: 25-1-19-2
176 SOUTH BROAD STREET
LAND NOW OR FORMERLY OF
TOWN OF STONINGTON
HUMAN SERVICES BUILDING
166 SOUTH BROAD STREET
STONINGTON, CT 06378
ADDITIONAL MAILING:
152 ELM STREET
STONINGTON, CT 06378

MAP ID: 25-1-19-3
SOUTH BROAD STREET
LAND NOW OR FORMERLY OF
TOWN OF STONINGTON
176 SOUTH BROAD STREET
STONINGTON, CT 06378
ADDITIONAL MAILING:
152 ELM STREET
STONINGTON, CT 06378

MAP ID: 25-1-19-4
SOUTH BROAD STREET
LAND NOW OR FORMERLY OF
TOWN OF STONINGTON
176 SOUTH BROAD STREET
STONINGTON, CT 06378
ADDITIONAL MAILING:
152 ELM STREET
STONINGTON, CT 06378

MAP ID: 25-1-19-6
SOUTH BROAD STREET
LAND NOW OR FORMERLY OF
TOWN OF STONINGTON
SEWER
176 SOUTH BROAD STREET
STONINGTON, CT 06378
ADDITIONAL MAILING:
152 ELM STREET
STONINGTON, CT 06378

NO MAP OR LOT REFERENCE (RAILROAD)
ADJACENT TO SUBJECT PARCEL
LAND NOW OR FORMERLY OF
NATIONAL RAILROAD PASSENGER CORP.
60 MASSACHUSETTS, NE
WASHINGTON, DC 20002
ADDITIONAL MAILING:
400 NORTH CAPITAL STREET, NW
WASHINGTON, DC 20001

CONSTRUCTION SEQUENCING

CONTRACTOR TO FOLLOW THE FOLLOWING CONSTRUCTION PHASING AS CLOSELY AS POSSIBLE:

1. MOBILIZATION: BRING MATERIAL AND EQUIPMENT TO SITE. ALL CONSTRUCTION TRAFFIC AND ACTIVITIES MUST RESIDE INSIDE ACCESS PATH DELINEATED, WITHIN STAGING AND STOCKPILE AREA, OR WITHIN AREA WHERE PROPOSED WORK IS BEING COMPLETED. THE CONTRACTOR IS TO PROTECT WETLANDS FROM DISTURBANCE AT ALL TIMES AND NO CONSTRUCTION ACTIVITIES OR DUMPING SHALL OCCUR IN THE WETLANDS.
2. INSTALL TEMPORARY EROSION AND SEDIMENTATION CONTROL BARRIERS.
3. CONSTRUCT NEW DRIVEWAY AND UTILITY TRENCH.
4. CLEAR AND ROUGH GRADE THE PROPOSED EQUIPMENT COMPOUND.
5. EXCAVATE FOR TOWER FOUNDATION AND COMPOUND UTILITIES.
6. INSTALL FORMS, STEEL REINFORCING, AND CONCRETE FOR TOWER FOUNDATION.
7. INSTALL BURIED GROUND RINGS, GROUND RODS, GROUND LEADS, UTILITY CONDUITS, AND UTILITY EQUIPMENT.
8. BACKFILL FOUNDATION.
9. ERECT MONOPOLE.
10. INSTALL TELECOMMUNICATIONS EQUIPMENT ON TOWER AND IN COMPOUND.
11. INSTALL COMPOUND GRAVEL SURFACES.
12. INSTALL FENCING.
13. CONNECT GROUNDING LEADS AND LIGHTENING PROTECTION.
14. FINAL GRADE AROUND COMPOUND.
15. LOAM AND SEED DISTURBED AREAS OUTSIDE COMPOUND, AS REQUIRED.
16. REMOVE SILT FENCING AFTER SEEDED AREAS HAVE ESTABLISHED VEGETATION.
17. FINAL CLEANUP AND EQUIPMENT TESTING.

THE ESTIMATED TIME FOR COMPLETION OF THE WORK IS APPROXIMATELY FOUR (4) WEEKS. THE EXACT PROCESS MAY VARY DEPENDING ON THE CONTRACTOR'S AND SUBCONTRACTOR'S AVAILABILITY TO COMPLETE WORK AND WEATHER DELAYS.

SITE AREAS & VOLUMES OF EARTHWORK

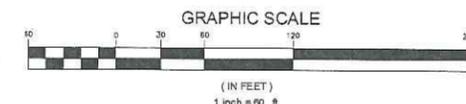
STEWART: SHALL ENTAIL 175 CUBIC YARDS OF CUT MATERIAL 85 CY UTILITY TRENCHING, & 80 CY COMPOUND(DWY) AND 30 CUBIC YARDS OF FILL. APPROXIMATELY 90 CUBIC YARDS OF CRUSHED STONE SHALL BE BORROWED TO COMPLETE THE ENTRANCE ROAD AND COMPOUND. 90 CY OF CUT MATERIAL WILL BE STRIPPED TOPSOIL.

WORK AREA SLOPES:
EXISTING - 2%
PROPOSED - 1-2%

TOTAL AREA OF DISTURBANCE = 9,500±SF

STORMWATER VELOCITY:
PRIOR TO GROUND COVER - <2.0 FT/SEC
FOLLOWING GROUND COVER - <2.0 FT/SEC

GROUND COVER TO BE ESTABLISHED AS FOLLOWS:
- WHITE CLOVER @ 0.20#/1000 SF
- TALL FESCUE @ 0.45#/1000 SF
- RYEGRASS @ 0.10#/1000 SF



MAP ID: 35-2-6-1
170 PAWCATUCK AVENUE
LAND NOW OR FORMERLY OF
HIGHLAND HOMESTEAD INC, BARRY L.
MAIN, & TOWN OF STONINGTON
170 PAWCATUCK AVENUE
PAWCATUCK, CT 06379
ADDITIONAL MAILING:
TOWN OF STONINGTON
152 ELM STREET
STONINGTON, CT 06378

MAP ID: 35-2-6-2
0 PAWCATUCK AVENUE
LAND NOW OR FORMERLY OF
HIGHLAND HOMESTEAD INC, BARRY L.
MAIN, & TOWN OF STONINGTON
170 PAWCATUCK AVENUE
PAWCATUCK, CT 06379
ADDITIONAL MAILING:
TOWN OF STONINGTON
152 ELM STREET
STONINGTON, CT 06378

MAP ID: 35-2-6-3
0 PAWCATUCK AVENUE
LAND NOW OR FORMERLY OF
HIGHLAND HOMESTEAD INC, BARRY L.
MAIN, & TOWN OF STONINGTON
170 PAWCATUCK AVENUE
PAWCATUCK, CT 06379
ADDITIONAL MAILING:
TOWN OF STONINGTON
152 ELM STREET
STONINGTON, CT 06378

MAP ID: 35-2-6-4
0 PAWCATUCK AVENUE
LAND NOW OR FORMERLY OF
HIGHLAND HOMESTEAD INC, BARRY L.
MAIN, & TOWN OF STONINGTON
170 PAWCATUCK AVENUE
PAWCATUCK, CT 06379
ADDITIONAL MAILING:
TOWN OF STONINGTON
152 ELM STREET
STONINGTON, CT 06378

EXISTING ACCESSWAY TO PROPOSED SITE

MAP ID: 26-1-7
0 PAWCATUCK AVENUE
LAND NOW OR FORMERLY OF
MICHAEL J. & BONNIE J. STEWART
155 PAWCATUCK AVENUE
PAWCATUCK, CT 06379

MAP ID: 26-1-5
161 PAWCATUCK AVENUE
LAND NOW OR FORMERLY OF
MICHAEL J. & LAURA STEWART
161 PAWCATUCK AVENUE
PAWCATUCK, CT 06379

SUBJECT SITE
MAP ID: 26-2-1
166 PAWCATUCK AVENUE
LAND NOW OR FORMERLY OF
WARREN D. & PATRICIA L. MAIN
166 PAWCATUCK AVENUE
PAWCATUCK, CT 06379
5.02 ACRES

PROPOSED T-MOBILE 30x70' LEASE
AREA AND 30x60' FENCED
COMPOUND AREA WITH 120'± AGL
MONOPOLE

PROPOSED GRAVEL
ACCESS DRIVE

TWO STORY
GARAGE

ONE STORY
RESIDENCE

MAP ID: 26-2-10
0 PAWCATUCK AVENUE
LAND NOW OR FORMERLY OF
WARREN D. MAIN
166 PAWCATUCK AVENUE
STONINGTON, CT 06379

MAP ID: 26-2-4
0 PAWCATUCK AVENUE
LAND NOW OR FORMERLY OF
TOWN OF STONINGTON
152 ELM STREET
STONINGTON, CT 06378

MAP ID: 26-2-2
160 PAWCATUCK AVENUE
LAND NOW OR FORMERLY OF
CLYDE S. JR. & BARBARA A.
DANIELS
160 PAWCATUCK AVENUE
STONINGTON, CT 06379

MAP ID: 26-2-3
156 PAWCATUCK AVENUE
LAND NOW OR FORMERLY OF
MICHAEL & BONNIE J. STEWART
156 PAWCATUCK AVENUE
STONINGTON, CT 06379

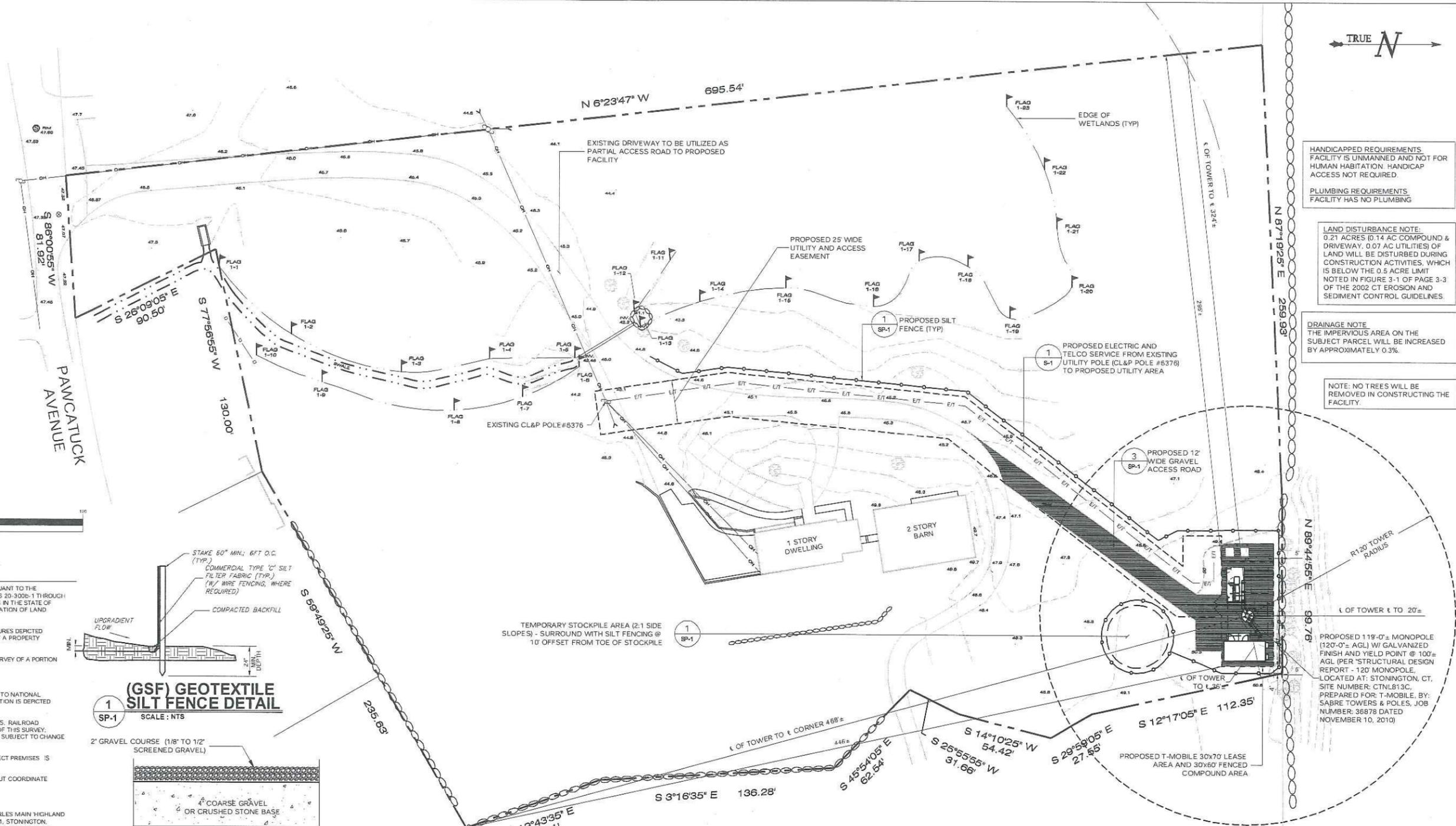
MAP ID: 26-2-7
144 PAWCATUCK AVENUE
LAND NOW OR FORMERLY OF
ALAN D. & JILL N.M. MAIN
144 PAWCATUCK AVENUE
PAWCATUCK, CT 06379

ABUTTERS MAP
SCALE: 1" = 60'

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T-Mobile 35 GRIFFIN ROAD BLOOMFIELD, CT 06002 OFFICE: (860)-692-7100	T-MOBILE SITE NUMBER: CTNL813A APT FILING NUMBER: CT-255T-520	DEVELOPMENT & MANAGEMENT DOCUMENTS AMTRAK STONINGTON 3 166 PAWCATUCK AVENUE PAWCATUCK, CT 06379		ABUTTERS MAP & CONSTR. SEQUENCE		
	DESIGN TYPE: RAW LAND	APT FILING NUMBER: CT-255T-520 APT DRAWING NUMBER: CTNL813A R-1.DWG DRAWN BY: RCB CHECKED BY: SMC	SCALE: AS NOTED DATE: 11/12/10	SHEET NUMBER: R-1		
ALL-POINTS TECHNOLOGY CORPORATION, P.C. 3 SADDLEBROOK DRIVE KILLINGWORTH, CT 06419 PHONE: (860)-863-1687 FAX: (860)-863-0935		REVISIONS: REV.0: 11/23/10: FOR REVIEW: SMC REV.1: 12/17/10: FOR PERMIT: SMC REV.2: REV.3: REV.4:				

LEGEND	
	CURB
	DROP CURB
	WALL
	STONE WALL
	EDGE OF PAVEMENT
	OVERHEAD WIRES
	STRUCTURE - MANHOLE
	GAS VALVE
	WATER VALVE
	HANDICAP PARKING
	PARKING STALL COUNT
	DRAINAGE INLET/STRUCTURE
	CATCH BASIN
	SIGN
	LIGHT POLE
	UTILITY POLE
	STOCKADE FENCE
	CONTOURS
	TOP/BOTTOM OF CURB
	SPOT ELEVATION
	CONCRETE
	GUY WIRE

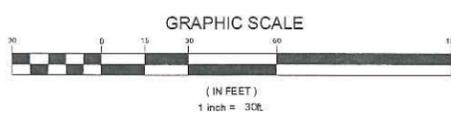


HANDICAPPED REQUIREMENTS:
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAP ACCESS NOT REQUIRED.

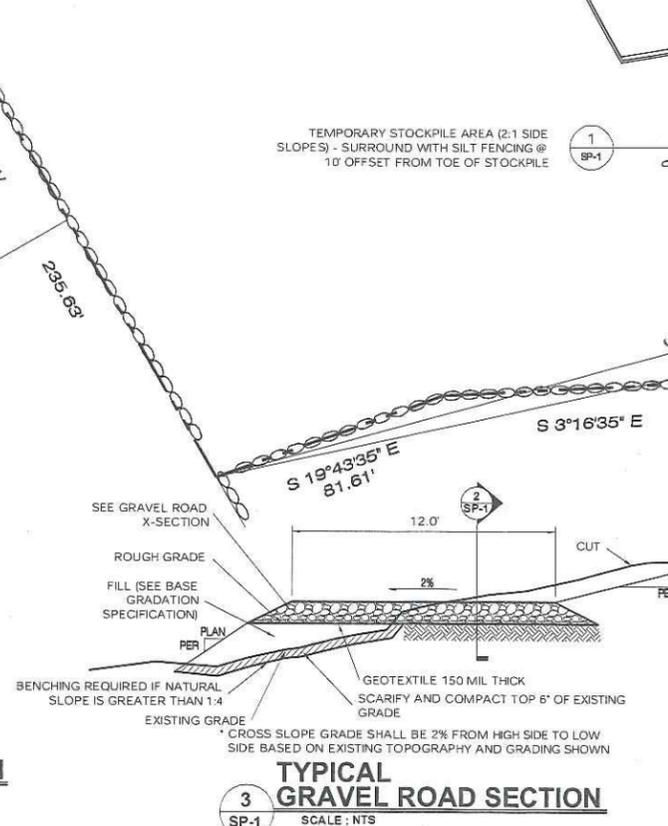
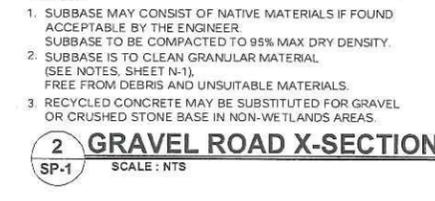
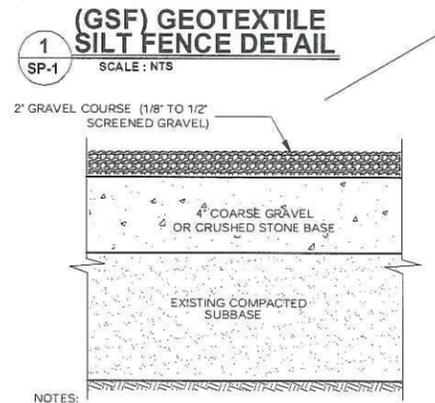
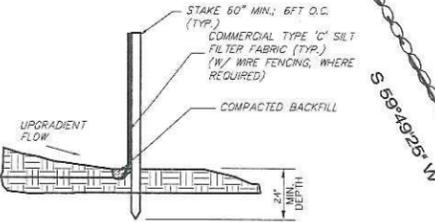
PLUMBING REQUIREMENTS:
FACILITY HAS NO PLUMBING.

LAND DISTURBANCE NOTE:
0.21 ACRES (0.14 AC COMPOUND & DRIVEWAY, 0.07 AC UTILITIES) OF LAND WILL BE DISTURBED DURING CONSTRUCTION ACTIVITIES, WHICH IS BELOW THE 0.5 ACRE LIMIT NOTED IN FIGURE 3-1 OF PAGE 3-3 OF THE 2002 CT EROSION AND SEDIMENT CONTROL GUIDELINES.

DRAINAGE NOTE:
THE IMPERVIOUS AREA ON THE SUBJECT PARCEL WILL BE INCREASED BY APPROXIMATELY 0.3%.
NOTE: NO TREES WILL BE REMOVED IN CONSTRUCTING THE FACILITY.



- NOTES**
- THIS MAP AND SURVEY HAVE BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300d-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 TYPE OF SURVEY PERFORMED AND THE MAPPED FEATURES DEPICTED HEREON ARE IN ACCORDANCE WITH THE REQUIREMENTS OF A PROPERTY SURVEY.
 - BOUNDARY DETERMINATION CATEGORY: DEPENDENT RESURVEY OF A PORTION OF REFERENCE MAPS 'A' & 'B'.
 - HORIZONTAL ACCURACY CLASS: A-2.
 - VERTICAL ACCURACY CLASS: T-2. ELEVATIONS REFER TO NATIONAL GEODETIC VERTICAL DATUM 1929. TOPOGRAPHIC INFORMATION IS DEPICTED ONLY FOR A PORTION OF THE PROPERTY.
 - LOT AREA = ±218,690 SQUARE FEET OR 5.02 ACRES. RAILROAD RIGHT-OF-WAY MAPPING NOT AVAILABLE AS OF THE DATE OF THIS SURVEY. METES AND BOUNDS ALONG RAILROAD AND LOT AREA ARE SUBJECT TO CHANGE UPON RECEIPT OF SUCH MAPPING.
 - ALL MONUMENTATION FOUND OR SET ON THE SUBJECT PREMISES IS DEPICTED HEREON.
 - NORTH ARROW AND BEARINGS REFER TO CONNECTICUT COORDINATE SYSTEM OF 1927.
 - REFERENCE MAPS:
 - (A) MONUMENTED PERIMETER SURVEY PREPARED FOR CHARLES MAIN HIGHLAND HOMESTEAD, PAWCATUCK AVENUE, MAP 26, BLOCK 2, LOT 1, STONINGTON, CONNECTICUT, PREPARED BY CHERENZIA & ASSOCIATES, LTD., SCALE 1"=20', DATED AUGUST 20, 1996, AND FILED AS MAP NO. 3128 WITH THE STONINGTON TOWN CLERK.
 - (B) PLAN SHOWING PROPERTY TO BE CONVEYED BY CHARLES N. MAIN SR. TO WARREN D. AND PATRICIA MAIN, PAWCATUCK AVE., PAWCATUCK, CONN., PREPARED BY ROSSI & LEWIS ENGINEERS, SCALE 1"=40', DATED AUGUST, 1966 AND FILED AS MAP NO. 1048 WITH THE STONINGTON TOWN CLERK.
 - PARCEL OWNERS OF RECORD:
 - WARREN D. MAIN & PATRICIA L. MAIN
 - 166 PAWCATUCK AVENUE
 - PAWCATUCK, CT 06379
 - NO EASEMENTS AFFECTING THE PROPERTY WERE FOUND.
 - WETLAND FLAGS SET BY: VANASSE, HANGEN, BRUSTLIN, INC. ON AUGUST 28, 2009.
 - THE OFFSETS OR DIMENSIONS SHOWN FROM STRUCTURES TO THE PROPERTY LINES ARE FOR A SPECIFIC PURPOSE AND USE; THEY ARE NOT INTENDED TO GUIDE IN THE ERECTION OF FENCES, RETAINING WALLS, POOLS, PATIOS, PLANTING AREAS, ADDITIONS TO BUILDINGS, OR ANY OTHER CONSTRUCTION.
 - SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS PART OF THIS SURVEY.



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T-MOBILE SITE NUMBER:
CTNL813A

APT FILING NUMBER:
CT-255T-520

T-Mobile

35 GRIFFIN ROAD
BLOOMFIELD, CT 06002
OFFICE: (860)-692-7100

DEVELOPMENT & MANAGEMENT DOCUMENTS

AMTRAK STONINGTON 3
166 PAWCATUCK AVENUE
PAWCATUCK, CT 06379

DESIGN TYPE:
RAW LAND

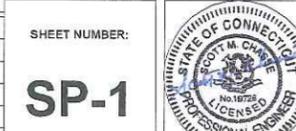
REVISIONS:

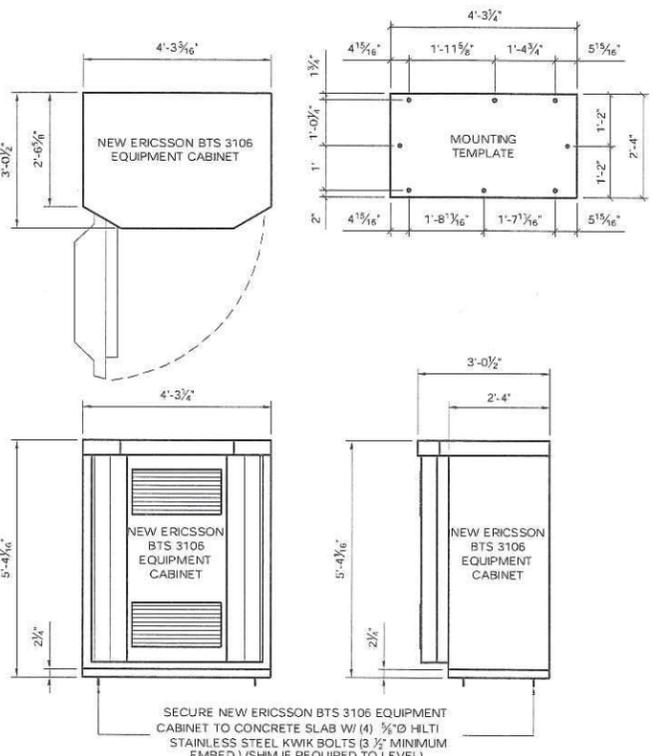
REV.0: 11/23/10; FOR REVIEW: SMC
REV.1: 12/17/10; FOR PERMIT: SMC
REV.2:
REV.3:
REV.4:

SITE PLAN

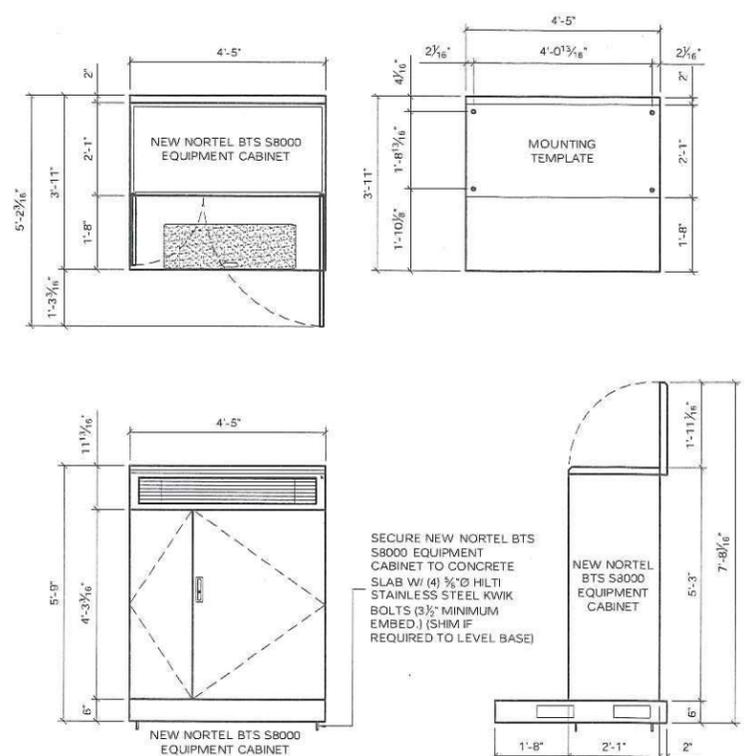
APT FILING NUMBER: CT-255T-520
APT DRAWING NUMBER: CTNL813A-SP-1
DRAWN BY: RCB
CHECKED BY: SMC
DATE: 11/12/10

SHEET NUMBER:
SP-1

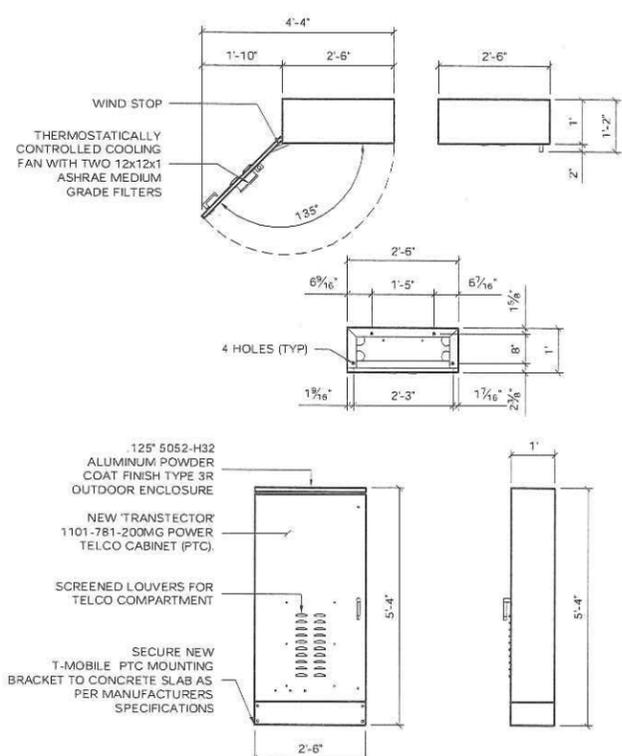




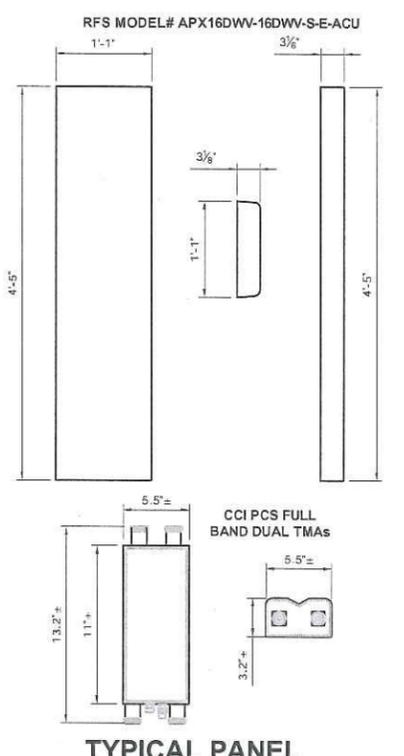
1 ERICSSON RBS 3106 EQUIPMENT CABINET
SCALE: 1/2" = 1'-0"



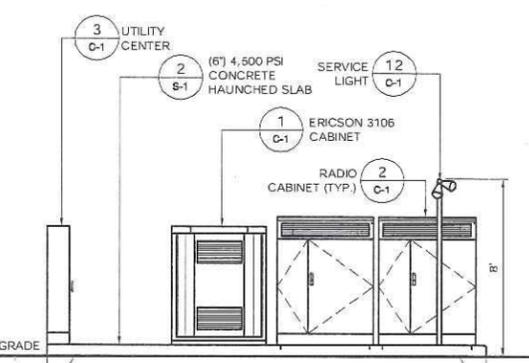
2 NORTEL BTS S8000 EQUIPMENT CABINET
SCALE: 1/2" = 1'-0"



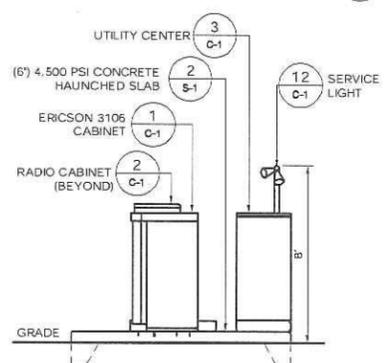
3 TRANSECTOR PTC CABINET
SCALE: 1/2" = 1'-0"



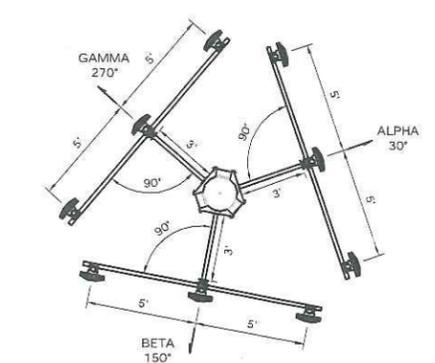
4 TYPICAL PANEL ANTENNA & TMA
SCALE: NTS



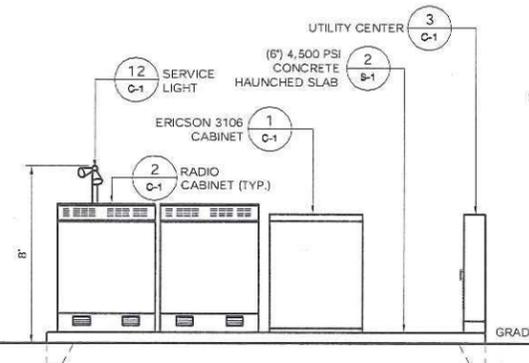
5 SOUTHERN ELEVATION
SCALE: 1/4" = 1'-0"



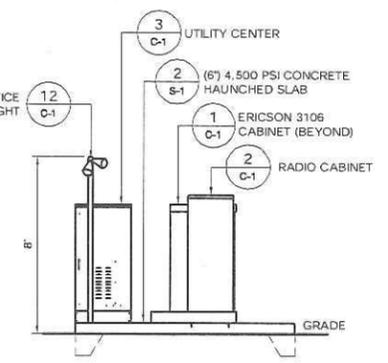
6 WESTERN ELEVATION
SCALE: 1/2" = 1'-0"



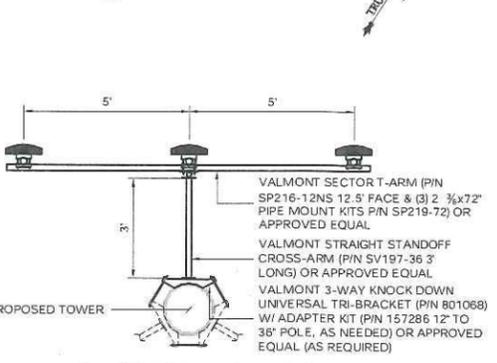
10 ANTENNA PLAN
SCALE: NTS



7 NORTHERN ELEVATION
SCALE: 1/4" = 1'-0"



8 EASTERN ELEVATION
SCALE: 1/4" = 1'-0"



9 ANTENNA MOUNT
SCALE: 3/8" = 1'-0"

DESIGN LOAD CRITERIA

EQUIPMENT SHELTER SHALL BE DESIGNED AND MANUFACTURED TO MEET ALL STATE AND LOCAL CODES. ITS LAYOUT SHALL BE COORDINATED WITH CARRIERS.

DESIGN BASIS	CONNECTICUT STATE BUILDING CODE
GOVERNING CODE	40 PSF (ASCE 7-02)
DESIGN LIVE LOADS	II
IMPORTANCE CATEGORY	
SNOW LOAD:	
GROUND SNOW LOAD (Pg)	30 PSF
IMPORTANCE FACTOR	1.0
EXPOSURE FACTOR (Ce)	0.9
THERMAL FACTOR (Ct)	1.0
WIND LOAD:	
BASIC WIND LOAD	120 MPH (3 SECOND GUST)
EXPOSURE GROUP	C
IMPORTANCE FACTOR	1.00
EQUIPMENT LOAD:	
EQUIPMENT DL	9,000 LBS
SEISMIC DESIGN PARAMETERS:	
SEISMIC USE GROUP	I
MCE SPECTRAL ACCELERATION SHORT (Sa)	0.262
MCE SPECTRAL ACCELERATION SHORT (S1)	0.080
SITE CLASS	D FOR UNKNOWN SOIL PROPERTIES
IMPORTANCE FACTOR	1.0



11 TYPICAL GSM & GPS ANTENNA DETAILS
SCALE: NTS

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T-MOBILE SITE NUMBER:
CTNL813A
APT FILING NUMBER:
CT-255T-520

T-Mobile
35 GRIFFIN ROAD
BLOOMFIELD, CT 06002
OFFICE: (860)-692-7100

ALL-POINTS TECHNOLOGY CORPORATION, P.C.
3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419
PHONE: (860)-863-1697
FAX: (860)-863-0935

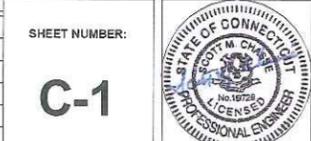
DEVELOPMENT & MANAGEMENT DOCUMENTS
AMTRAK STONINGTON 3
166 PAWCATUCK AVENUE
PAWCATUCK, CT 06379

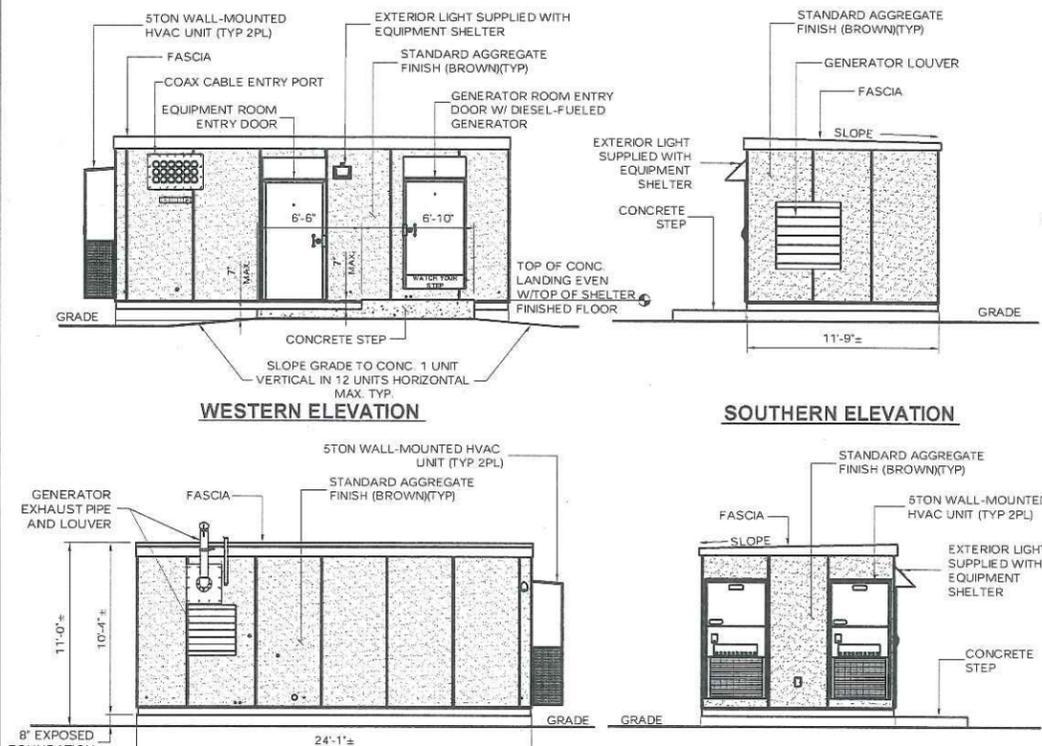
DESIGN TYPE:
RAW LAND

REVISIONS:
REV. 0: 11/23/10: FOR REVIEW: SMC
REV. 1: 12/17/10: FOR PERMIT: SMC
REV. 2:
REV. 3:
REV. 4:

T-MOBILE EQUIPMENT PLAN & DETAILS
APT FILING NUMBER: CT-255T-520
APT DRAWING NUMBER: CTNL813A C-1.DWG
DRAWN BY: RCB
CHECKED BY: SMC
DATE: 11/12/10

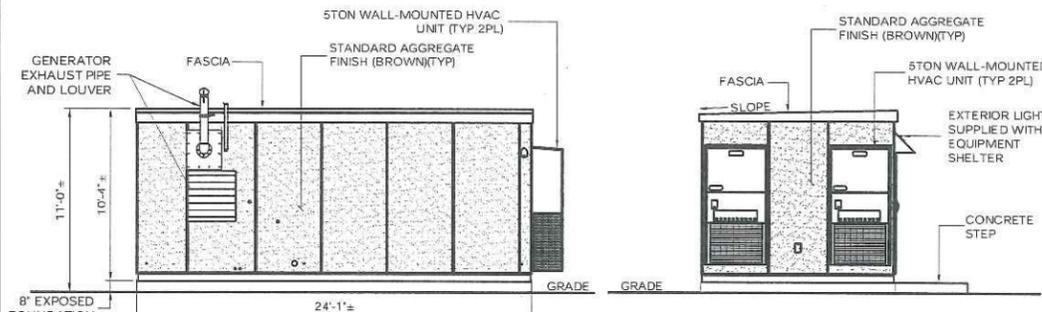
SHEET NUMBER:
C-1





WESTERN ELEVATION

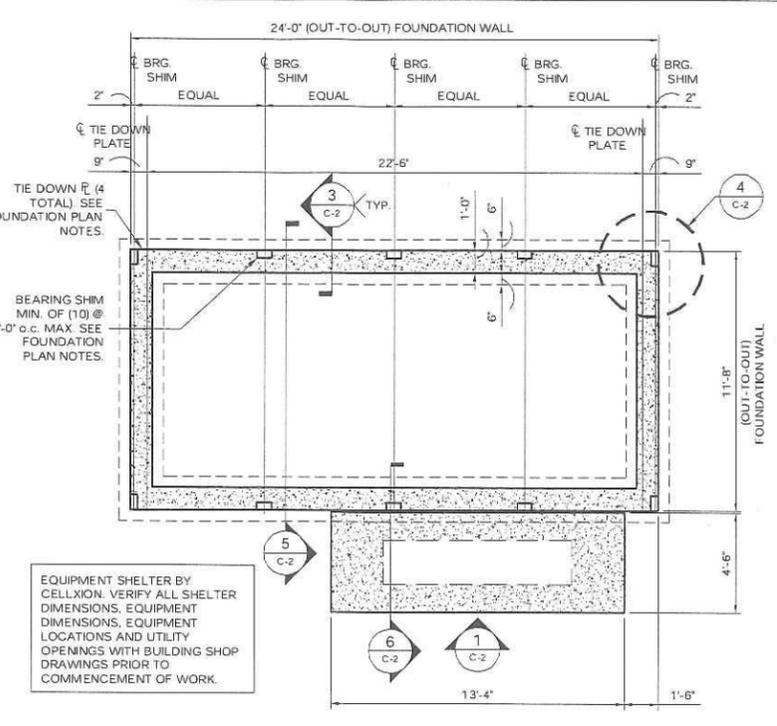
SOUTHERN ELEVATION



EASTERN ELEVATION

NORTHERN ELEVATION

1 12' X 24' EQUIPMENT SHELTER
SCALE: 3/16" = 1'-0"



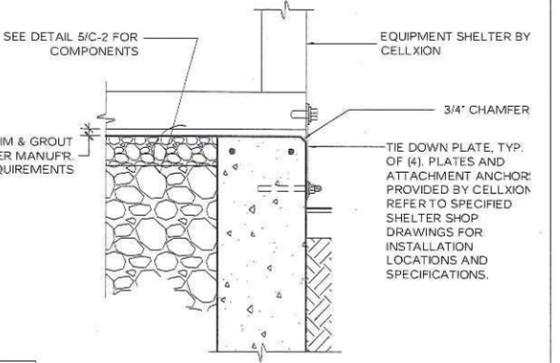
2 FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

FOUNDATION PLAN NOTES:

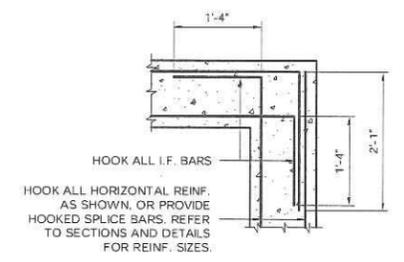
1. BFTG. ELEVATION AT 3'-6" MINIMUM BELOW FINISHED GRADE. (TYP)
2. BEARING SHIMS, TIE-DOWN PLATES AND ASSOCIATED INSTALLATION ANCHORS PROVIDED BY CELLXION. CONTRACTOR SHALL VERIFY ALL SHIM & TIE-DOWN QUANTITIES AND LOCATIONS WITH CELLXION PRIOR TO PERFORMING FOUNDATION WORK.
3. SLAB/ TOP OF WALL TOLERANCE IS 1/4"±
4. TOP 8" OF FOUNDATION SIDES MUST BE FORMED FLAT TO ACCEPT TIE-DOWN PLATES.
5. PER NEC REQUIREMENTS, THE REBAR IN FOUNDATION AND FOOTING SHALL BE BONDED TO GROUND RING WITH A #2 AWSG SOLID CONDUCTOR USING LISTED AND APPROVED METHODS.
6. PROVIDE PVC SLEEVES FOR UTILITY CONDUIT PASSAGE THROUGH FOUNDATION OR CAST CONDUITS IN PLACE.

DESIGN LOAD CRITERIA

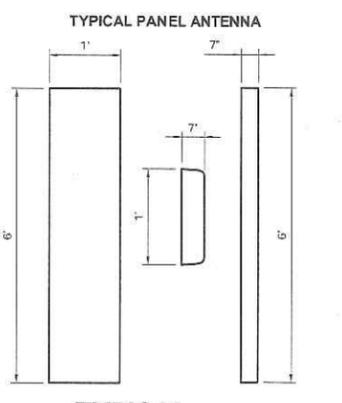
DESIGN BASIS	CONNECTICUT STATE BUILDING CODE
GOVERNING CODE	40 PSF (ASCE 7-02)
DESIGN LIVE LOADS	II
IMPORTANCE CATEGORY	
SNOW LOAD:	
GROUND SNOW LOAD (Pg)	30 PSF
IMPORTANCE FACTOR	1.0
EXPOSURE FACTOR (Ce)	0.9
THERMAL FACTOR (Ct)	1.0
WIND LOAD:	
BASIC WIND LOAD	120 MPH (3 SEC. GUST)
EXPOSURE GROUP	C
IMPORTANCE FACTOR	1.0
SHELTER LOAD:	
FLOOR LIVE LOAD INCLUDING EQUIPMENT	150 PSF
EQUIPMENT SHELTER DL	46,000 LBS
SEISMIC DESIGN PARAMETERS:	
SEISMIC USE GROUP	I
MCE SPECTRAL ACCELERATION SHORT (Sa)	0.262
MCE SPECTRAL ACCELERATION SHORT (S1)	0.080
SITE CLASS	D FOR UNKNOWN SOIL PROPERTIES
IMPORTANCE FACTOR	1.0



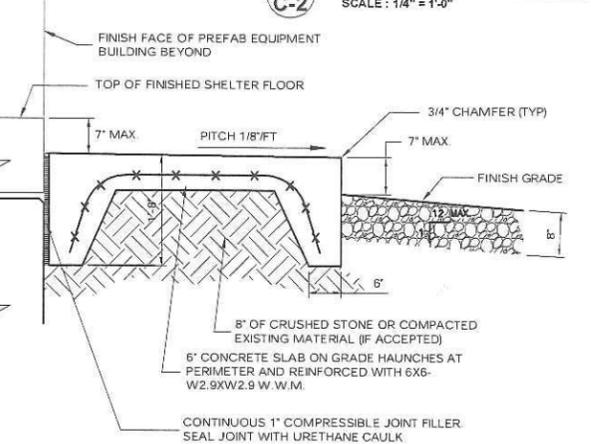
3 BUILDING TIE DOWN
SCALE: 1" = 1'-0"



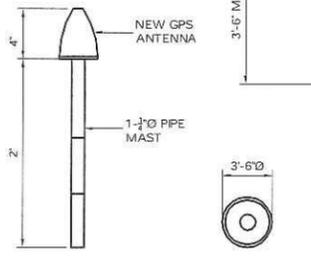
4 DETAIL CORNER REINFORCEMENT
SCALE: 3/4" = 1'-0"



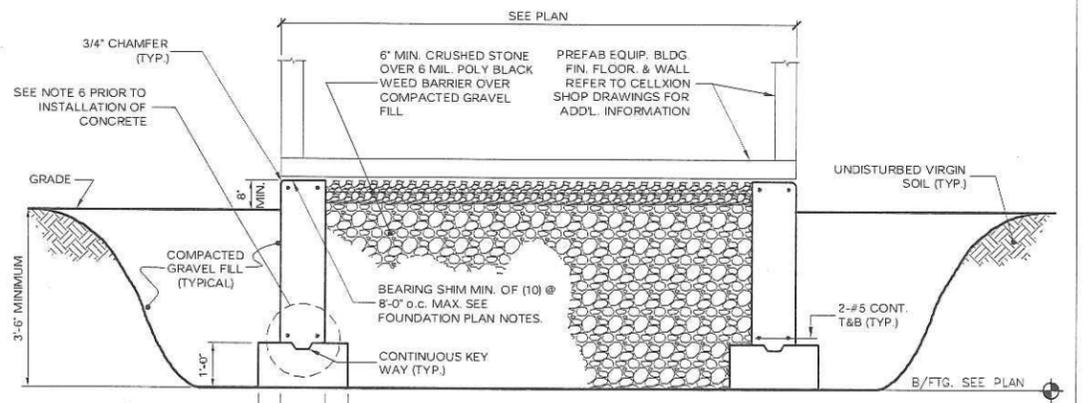
9 TYPICAL PANEL ANTENNA
SCALE: NTS



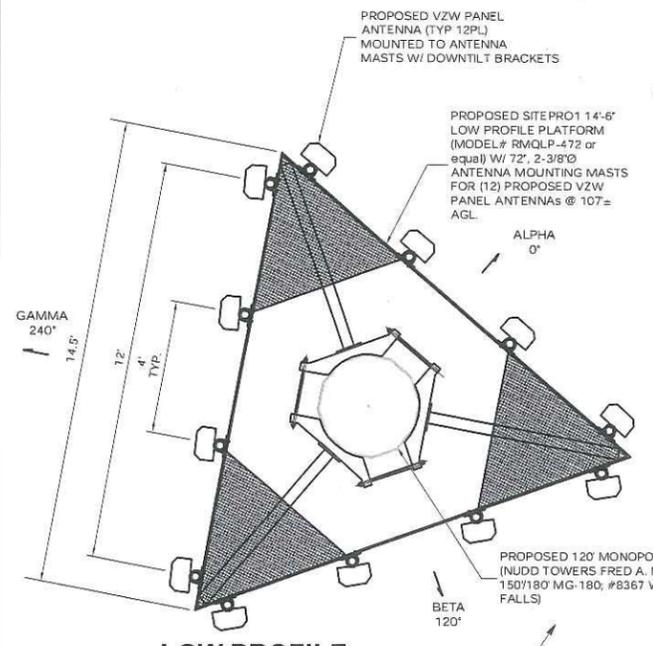
6 ENTRY STOOP DETAIL - SECTION
SCALE: 3/16" = 1'-0"



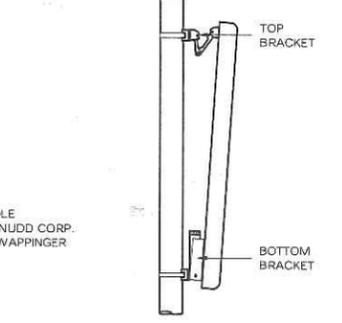
7 TYPICAL GPS DETAILS
SCALE: NTS



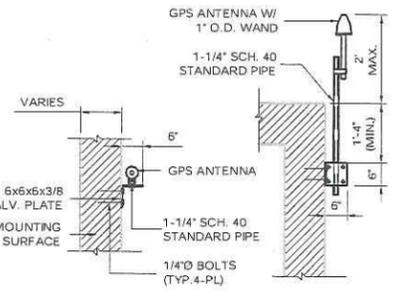
5 FOUNDATION SECTION
SCALE: 1/2" = 1'-0"



10 LOW PROFILE ANTENNA PLATFORM
SCALE: NTS



11 DOWNTILT ASSEMBLY DETAIL
SCALE: NTS



8 TYPICAL GPS MOUNTING DETAIL
SCALE: NTS

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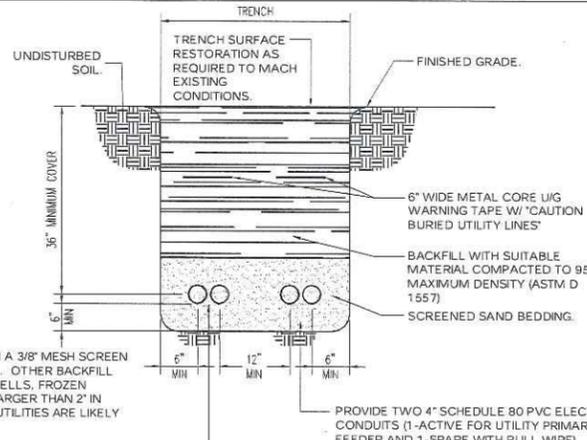
T-MOBILE SITE NUMBER: CTNL813A	DEVELOPMENT & MANAGEMENT DOCUMENTS	VZW EQUIPMENT PLAN & DETAILS
APT FILING NUMBER: CT-255T-520	AMTRAK STONINGTON 3 166 PAWCATUCK AVENUE PAWCATUCK, CT 06379	
T-Mobile	DESIGN TYPE: RAW LAND	APT FILING NUMBER: CT-255T-520
35 GRIFFIN ROAD BLOOMFIELD, CT 06002 OFFICE: (860)-692-7100	REVISIONS:	APT DRAWING NUMBER: CTNL813A C-2.DWG
ALL-POINTS TECHNOLOGY CORPORATION, P.C.	REV.0: 11/23/10: FOR REVIEW: SMC	DRAWN BY: RCB
3 SADDLEBROOK DRIVE KILLINGWORTH, CT 06419 PHONE: (860)-663-1697 FAX: (860)-663-0935	REV.1: 12/17/10: FOR PERMIT: SMC	CHECKED BY: SMC
	REV.2:	DATE: 11/12/10
	REV.3:	SHEET NUMBER: C-2
	REV.4:	

NOTES:

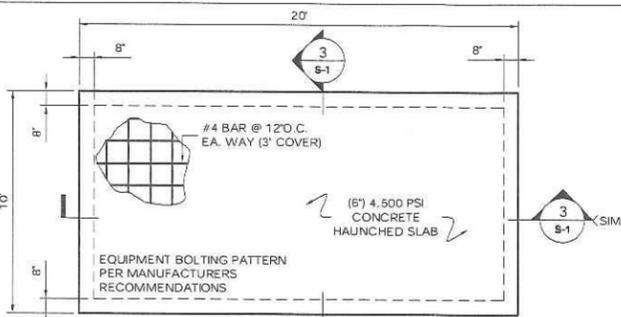
1. THE CLEAN FILL SHALL PASS THROUGH A 3/8" MESH SCREEN AND SHALL NOT CONTAIN SHARP STONES. OTHER BACKFILL SHALL NOT CONTAIN ASHES, CINDERS, SHELLS, FROZEN MATERIAL, LOOSE DERBIES OR STONES LARGER THAN 2" IN MAXIMUM DIMENSION. WHERE EXISTING UTILITIES ARE LIKELY TO BE ENCOUNTERED.
2. CONTRACTOR SHALL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

1 PRIMARY UTILITY TRENCH

S-1 SCALE: N.T.S.



PROVIDE TWO 4" SCHEDULE 80 PVC COMMUNICATION (TELEPHONE, FID) CONDUITS WITH 200 LB MIN. TENSILE STRENGTH PULL TAPE. TELEPHONE COMPANY WILL SUPPLY AND INSTALL TELEPHONE LINES.

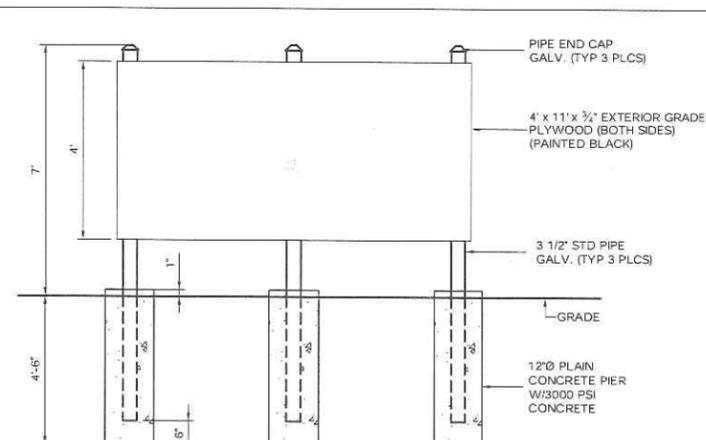
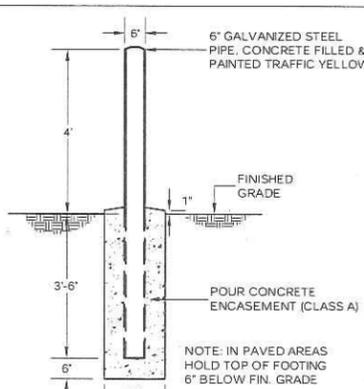


2 HAUNCHED SLAB PLAN

S-1 SCALE: 1/4" = 1'-0"

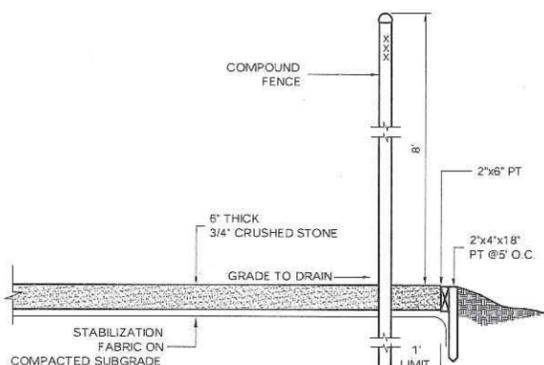
9 BOLLARD DETAIL

S-1 SCALE: N.T.S.



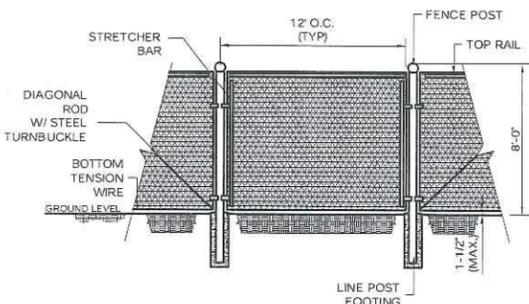
10 UTILITY BACKBOARD DETAIL

S-1 SCALE: N.T.S.



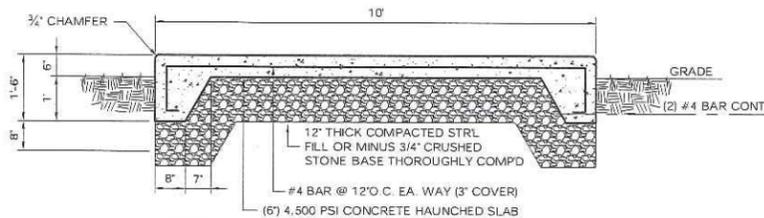
4 COMPOUND DETAIL

S-1 SCALE: N.T.S.



5 CHAIN-LINK FENCING DETAIL

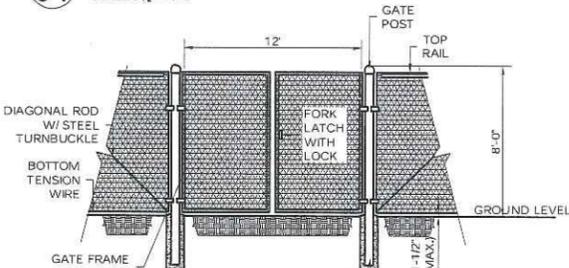
S-1 SCALE: N.T.S.



1. CONCRETE SHALL BE F'C = 4,500 PSI (MIN.) @ 28 DAYS WITH MAXIMUM WATER/CEMENT (W/C) RATIO = 0.45 AND AIR ENTRAINED IN ACCORDANCE WITH IBC SECTION 1904 "DURABILITY REQUIREMENTS". DEFORMED REINFORCING BARS SHALL BE FABRICATED WITHOUT SPLICES. SUPPORT BAR MAT ON CONCRETE BRICK.
2. ALL INTERSECTING BARS SHALL BE TIED. TURN ENDS OF TIE WIRE AWAY FROM EXPOSED SURFACES.

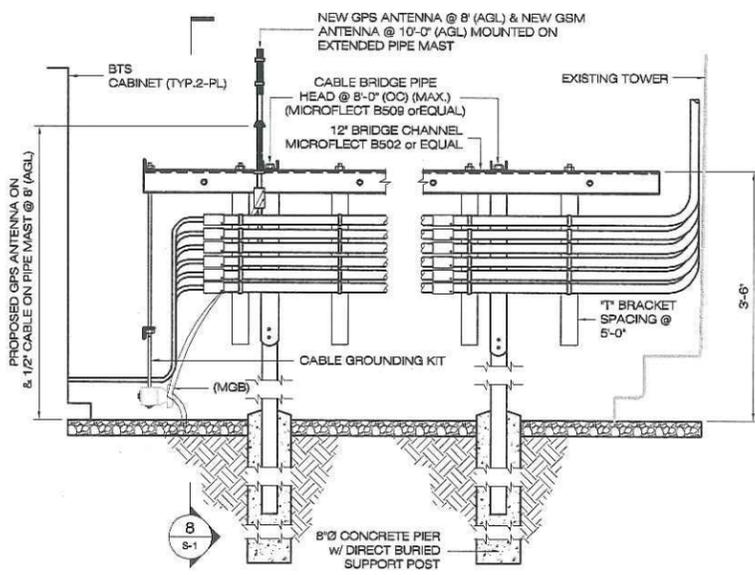
3 HAUNCHED SLAB DETAIL

S-1 SCALE: 1/2" = 1'-0"



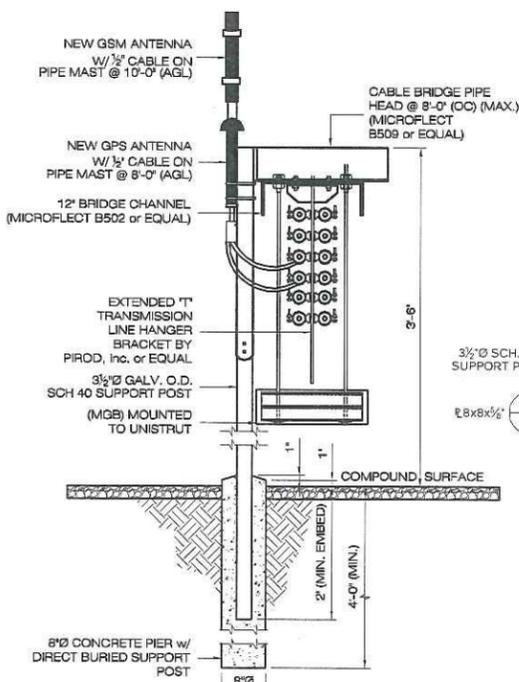
6 FENCE & GATE DETAIL

S-1 SCALE: N.T.S.



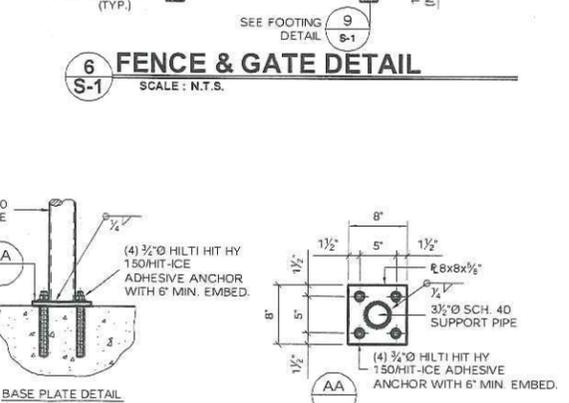
7 CABLE BRIDGE DETAIL

S-1 SCALE: N.T.S.



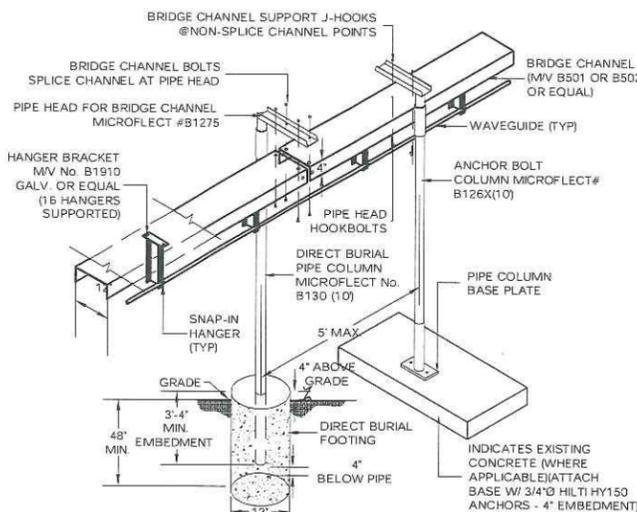
8 SECTION VIEW

S-1 SCALE: N.T.S.



12 HAUNCHED SLAB PLAN

S-1 SCALE: N.T.S.



13 CABLE BRIDGE & COAX HANGER DETAIL

S-1 SCALE: N.T.S.

T-Mobile 35 GRIFFIN ROAD BLOOMFIELD, CT 06002 OFFICE: (860)-692-7100	T-MOBILE SITE NUMBER: CTNL813A	DEVELOPMENT & MANAGEMENT DOCUMENTS AMTRAK STONINGTON 3 166 PAWCATUCK AVENUE PAWCATUCK, CT 06379	COMPOUND DETAILS
	APT FILING NUMBER: CT-255T-520	DESIGN TYPE: RAW LAND	APT FILING NUMBER: CT-255T-520 APT DRAWING NUMBER: CTNL813A S-1.DWG DRAWN BY: RCB CHECKED BY: SMC SHEET NUMBER: S-1
ALL-POINTS TECHNOLOGY CORPORATION, P.C. 3 SADDLEBROOK DRIVE KILLINGWORTH, CT 06419 PHONE: (860)-863-1697 FAX: (860)-863-0935	REVISIONS: REV.0: 11/23/10: FOR REVIEW: SMC REV.1: 12/17/10: FOR PERMIT: SMC REV.2: REV.3: REV.4:		

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GENERAL NOTES:

1. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL COMPLY WITH THE STANDARDS AND SPECIFICATIONS OF THE TOWN OF BRANFORD, AND OTHER GOVERNMENTAL AGENCIES AS APPLICABLE.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS BEFORE COMMENCING WORK. THE CONTRACTOR SHALL FOLLOW ALL CONDITIONS OF ALL APPLICABLE PERMITS AND WORK IN ACCORD WITH OSHA REGULATIONS.

3. UTILITY INFORMATION SHOWN ON THE PLAN IS BASED ON VISIBLE FIELD OBSERVATION AND AVAILABLE RECORDS. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO COMMENCING WORK. THE CONTRACTOR IS ADVISED THAT THESE DRAWINGS MAY NOT ACCURATELY DEPICT AS-BUILT LOCATIONS AND OTHER UNKNOWN STRUCTURES. THE CONTRACTOR SHALL THEREFORE DETERMINE THE EXACT LOCATION OF EXISTING UNDERGROUND ELEMENTS AND EXCAVATE WITH CARE AFTER CALLING MARKOUT SERVICE AT 1-800-922-4655 (72) HOURS BEFORE DIGGING, DRILLING OR BLASTING. CARE SHALL BE TAKEN NOT TO DISTURB EXISTING UTILITIES AND SERVICE CONNECTIONS (OR PORTIONS THEREOF) TO REMAIN. CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING STRUCTURES OR UTILITIES DAMAGED BY HIS OPERATIONS.

4. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF NEW SERVICE CONNECTIONS AND SHALL COORDINATE WORK WITH THE APPROPRIATE UTILITY COMPANY.

5. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, FIBER OPTIC, 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 ENGINEER.

6. 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. THIS WILL INCLUDE, BUT NOT BE LIMITED TO: A) FALL PROTECTION, B) CONFINED SPACE ENTRY, C) ELECTRICAL SAFETY, AND D) TRENCHING & EXCAVATION.

7. ELECTRIC SERVICE SHALL BE COORDINATED WITH CONNECTICUT LIGHT & POWER (CL & P).

8. ALL ELEVATIONS SHOWN ARE IN N.G.V. DATUM 1929.

9. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER UTILITIES SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.

10. CONTRACTOR SHALL PROTECT EXISTING PAVED AND GRAVEL SURFACES, CURBS, LANDSCAPE AND STRUCTURES AND RESTORE SITE TO PRECONSTRUCTION CONDITION WITH AS GOOD OR BETTER MATERIALS. NEW MATERIALS SHALL MATCH EXISTING THICKNESS AND TYPE.

11. THE CONTRACTOR SHALL SHORE ALL TRENCH EXCAVATION GREATER THAN 3 FEET IN DEPTH OR LESS WHERE SOIL CONDITIONS ARE DEEMED UNSTABLE. ALL SHEETING AND/OR SHORING METHODS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER.

12. THE CONTRACTOR IS RESPONSIBLE FOR MANAGING GROUNDWATER LEVELS IN THE VICINITY OF EXCAVATIONS TO PROTECT ADJACENT PROPERTIES AND NEW WORK. GROUNDWATER SHALL BE DRAINED IN ACCORDANCE WITH LOCAL SEDIMENTATION & EROSION CONTROL GUIDELINES.

13. EXCAVATION CONTRACTOR SHALL GRADE ONLY AREAS SHOWN TO BE MODIFIED HEREIN AND ONLY TO THE EXTENT REQUIRED TO SHED OVERLAND WATER FLOW AWAY FROM SITE. ALL SLOPES SHALL NOT BE STEEPER THAN 3:1 (HORIZ:VERT).

SEDIMENTATION AND EROSION CONTROLS SHOWN AND SPECIFIED SHALL BE ESTABLISHED BEFORE STRIPPING EXISTING VEGETATION.

ORGANIC MATERIAL AND DEBRIS SHALL BE STRIPPED AND STOCKPILED BEFORE ADDING FILL MATERIAL.

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.

ALL FILL SHALL BE PLACED IN EIGHT INCH LIFTS AND COMPACTED IN PLACE. STRUCTURAL FILL SHALL BE COMPACTED TO 95% MAXIMUM MODIFIED PROCTOR DRY DENSITY TESTED IN ACCORDANCE WITH ASTM D1557, METHOD C.

EXCAVATIONS FOR FOOTINGS SHALL BE CUT LEVEL TO THE REQUIRED DEPTH AND TO UNDISTURBED SOIL REPORT UNSUITABLE SOIL CONDITIONS TO THE ENGINEER.

STRUCTURAL FILL BE TESTED FOR MOISTURE CONTENT AND COMPACTION DURING PLACEMENT. SHOULD THE RESULTS OF THE IN-PLACE DENSITY TESTS INDICATE THE SPECIFIED MOISTURE OR COMPACTION LIMITS HAVE NOT BEEN MET, THE AREA REPRESENTED BY THE TEST SHOULD BE REWORKED AND RETESTED, AS REQUIRED, UNTIL THE SPECIFIED MOISTURE AND COMPACTION REQUIREMENTS ARE ACHIEVED.

EQUIPMENT CABINETS MAY BE SUPPORTED ON SLABS-ON-GRADE UNDERLAIN BY AT LEAST A 12-INCH THICKNESS OF COMPACTED STRUCTURAL FILL OR MINUS 3/4-INCH CRUSHED STONE PLACED ON THE EXISTING FILL. THE SURFACE OF WHICH SHOULD BE THOROUGHLY COMPACTED AND CLEAR OF ORGANIC MATTER.

THE AREA UNDERLYING THE SLABS SHOULD BE ROUGH GRADED AND THEN THOROUGHLY PRODFROLLED WITH A VIBRATORY ROLLER OR HEAVY PLATE COMPACTOR PRIOR TO FINAL GRADING AND PLACEMENT OF STRUCTURAL FILL OR MINUS 3/4-INCH CRUSHED STONE.

A SOIL UNIT WEIGHT OF 100 LBS PER CUBIC FOOT (PCF) SHOULD BE USED FOR ENGINEERED FILL OVERLYING THE FOOTINGS.

TRENCH EXCAVATIONS SHALL BE BACKFILLED AT THE END OF EACH DAY.

SURPLUS MATERIAL SHALL BE REMOVED FROM THE SITE.

TOWER FOUNDATION EXCAVATION, BACKFILL AND COMPACTION SHALL BE IN ACCORD WITH TOWER MANUFACTURER'S DESIGNS AND SPECIFICATIONS.

GENERAL (CONTINUED)

14. MATERIALS
NATIVE GRAVEL MATERIAL MAY BE USED FOR TRENCH BACKFILL WHERE SELECT MATERIAL IS NOT SPECIFIED. GRAVEL MATERIAL FOR CONDUIT TRENCH BACKFILL SHALL NOT CONTAIN ROCK GREATER THAN 2 INCHES IN DIAMETER.

BANK OR CRUSHED GRAVEL SHALL CONSIST OF TOUGH, DURABLE PARTICLES OF CRUSHED OR UNCRUSHED GRAVEL FREE OF SOFT, FIN, ELONGATED OR LAMINATED PECES AND MEET THE GRADATION.

FILL SHOULD MEET THE FOLLOWING MATERIAL PROPERTY REQUIREMENTS:

FILL TYPE (1)	USCS CLASSIFICATION	ACCEPTABLE LOCATION FOR PLACEMENT
STRUCTURAL FILL	GW (2)	ALL LOCATIONS AND ELEVATIONS. THE EXISTING FILL AND NATIVE GLACIAL TILL MAY BE RE-USED AS STRUCTURAL FILL PROVIDED THEY MEET THE GRADATION REQUIREMENTS IN NOTE 2, BELOW.
COMMON FILL	VARIES (3)	COMMON FILL MAY BE USED FOR SITE GRADING TO WITHIN 12 INCHES OF FINISHED GRADE. COMMON FILL SHOULD NOT BE USED UNDER SETTLEMENT SENSITIVE STRUCTURES. THE EXISTING FILL AND NATIVE GLACIAL TILL MAY BE RE-USED AS COMMON FILL PROVIDED THEY ARE FREE OF ORGANICS AND CAN BE ADEQUATELY COMPACTED.

1. COMPACTED STRUCTURAL FILL SHOULD CONSIST OF APPROVED MATERIALS THAT ARE FREE OF ORGANIC MATTER AND DEBRIS. FROZEN MATERIAL SHOULD NOT BE USED. FILL SHOULD NOT BE PLACED ON A FROZEN SUBGRADE.

2. IMPORTED STRUCTURAL FILL SHOULD MEET THE FOLLOWING GRADATION:

PERCENT PASSING BY WEIGHT

SIEVE SIZE	STRUCTURAL FILL
100	100
3"	70-100
2"	(100)
3/4"	45-95
NO. 4	30-80
NO. 10	25-80
NO. 40	10-50
NO. 200	0-12

* MAXIMUM 2-INCH PARTICLE SIZE WITHIN 12 INCHES OF THE UNDERSIDE OF FOOTINGS OR SLABS

3. COMMON FILL SHOULD HAVE A MAXIMUM PARTICLE SIZE OF 6 INCHES AND NO MORE THAN 25 PERCENT BY WEIGHT PASSING THE US NO. 200 SIEVE.

4. FILL MATERIAL SHALL BE FREE OF ORGANIC MATERIAL, ICE, TRASH AND DEBRIS.

SEDIMENTATION/EROSION

1. THE CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

2. CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM OF TIME BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED TO PREVENT EROSION. THE FOLLOWING GENERAL CONDITIONS SHALL BE OBSERVED:

A. LIMITS OF CLEARING AND GRUBBING SHALL BE CLEARLY MARKED BEFORE COMMENCING WITH SUCH WORK.

B. EXISTING VEGETATION TO REMAIN SHALL BE PROTECTED AND REMAIN UNDISTURBED.

C. CLEARING AND GRADING SHALL BE SCHEDULED SO AS TO MINIMIZE THE SIZE OF EXPOSED AREAS AND THE LENGTH OF TIME THAT AREAS ARE EXPOSED.

D. TOPSOIL SHALL BE SPREAD TO FINISH GRADES AND SEEDED AS SOON AS FINISHED GRADES ARE ESTABLISHED. STRAW MULCH, JUTE NETTING OR MATS SHALL BE USED WHERE THE NEW SEED IS PLACED.

E. THE LENGTH AND STEEPNESS OF CLEARED SLOPES SHALL BE MINIMIZED TO REDUCE RUNOFF VELOCITIES.

F. RUNOFF SHALL BE DIVERTED AWAY FROM CLEARED SLOPES.

G. ALL SEDIMENT SHALL BE TRAPPED ON THE SITE.

3. SEDIMENTATION AND EROSION CONTROL (SEC) MEASURES SHOWN SHALL BE INSTALLED PRIOR TO LAND CLEARING, EXCAVATION OR GRADING OPERATIONS. REQUIREMENTS SPECIFIED SHALL BE MET PRIOR TO COMMENCING EARTHWORK OPERATIONS.

4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN SEC MEASURES THROUGHOUT DURATION OF PROJECT UNTIL DISTURBED LAND IS THOROUGHLY VEGETATED.

5. FAILURE OF THE SEC SYSTEMS SHALL BE CORRECTED IMMEDIATELY AND SUPPLEMENTED WITH ADDITIONAL MEASURES AS NEEDED.

6. VEGETATIVE SEEDING: UDN. AREA TO BE SEEDED SHALL BE LOOSE AND FRABLE TO A DEPTH OF 3". TOPSOIL SHALL BE LOOSENEED BY RAKING OR DISKING BEFORE SEEDING. APPLY 50 LBS. OF DOLOMITIC LIMESTONE AND 25 LBS. OF 10-10-10 FERTILIZER PER 1000 SF. HARROW LIME AND FERTILIZER INTO LOOSE SOIL. APPLY COMMON BERMUDA AND RYE GRASS AT 60 LBS/ACRE. USE CYCLONE SEED DRILL, CULTIPACKER SEEDER OR HYDROSEEDER (SEED & FERTILIZER SLURRY) FOR STEEP SLOPES. IRRIGATE UNTIL VEGETATION IS COMPLETELY ESTABLISHED.

7. PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS IDENTIFIED IN FEDERAL, STATE, AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.

8. INSPECT AND MAINTAIN EROSION CONTROL MEASURES, AND REMOVE SEDIMENT THEREFROM ON A WEEKLY BASIS AND WITHIN TWELVE HOURS AFTER EACH STORM EVENT AND DISPOSE OF SEDIMENTS IN AN UPLAND AREA SUCH THAT THEY DO NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.

8. CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATERS

SEC (CONTINUED)

10. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, CONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION CONTROL MEASURES AND CLEAN SEDIMENT AND DEBRIS FROM ENTIRE DRAINAGE SYSTEMS LOCATED ON SITE.

11. APPROPRIATE MEANS SHALL BE USED TO CONTROL DUST DURING CONSTRUCTION.

12. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE MAINTAINED TO PREVENT SOIL AND LOOSE DEBRIS FROM BEING TRACKED ONTO LOCAL ROADS. THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED UNTIL THE SITE IS PERMANENTLY STABILIZED.

13. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE STATE OF CONNECTICUT GUIDELINES FOR EROSION AND SEDIMENT CONTROL, AS AMENDED.

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

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

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

17. 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.

18. CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENTATION CONTROL MEASURES PRIOR TO ANY GRADING ACTIVITIES IN LOCATIONS SHOWN ON THESE DRAWINGS.

19. 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.

20. 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.

21. 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.

22. 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.

23. NO 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 TO DAYS. LAND SHOULD NOT BE LEFT EXPOSED DURING THE WINTER MONTHS.

24. ANY DISTURBED AREAS WHICH ARE TO BE LEFT TEMPORARILY, AND WHICH WILL BE REGRADED LATER DURING CONSTRUCTION SHALL BE MACHIE 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 UNSPOOLED, AIR DRIED, AND FREE FROM WEED SEEDS, AND ANY COARSE MATERIAL.

STRUCTURAL NOTES & SPECIFICATIONS

STEEL

1. CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. THE ENGINEER SHALL BE NOTIFIED OF ANY CONDITIONS WHICH PRECLUDE COMPLETION OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

2. DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".

3. STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A992 (FY-50 KSI), UNLESS OTHERWISE NOTED.

4. STEEL PIPE SHALL CONFORM TO ASTM A500, GRADE B, STEEL PIPE DIAMETERS NOTED ON THE DRAWINGS ARE NOMINAL.

5. STRUCTURAL CONNECTION BOLTS SHALL CONFORM TO ASTM A325. ALL BOLTS SHALL BE 3/4" DIAMETER MINIMUM AND SHALL HAVE MINIMUM OF TWO BOLTS, UNLESS NOTED OTHERWISE ON THE DRAWINGS. LOCK WASHER ARE NOT PERMITTED FOR A325 STEEL ASSEMBLIES.

6. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIAMETER GALVANIZED ASTM A 307 BOLTS UNLESS OTHERWISE NOTED.

7. ALL STEEL MATERIAL EXPOSED TO WEATHER SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIPPED GALVANIZED) COATINGS" ON IRON AND STEEL PRODUCTS.

8. ALL BOLTS ANCHORS AND MISCELLANEOUS HARDWARE EXPOSED TO WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC COATING (HOT-DIP) ON IRON AND STEEL HARDWARE".

9. DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY UP ALL DAMAGED GALVANIZED STEEL WITH COLD ZINC, "GALVANOX", "DRY GALV", "ZINC IT", OR APPROVED EQUIVALENT, IN ACCORDANCE WITH MANUFACTURERS GUIDELINES. TOUCH UP DAMAGED NON GALVANIZED STEEL WITH SAME PAINT APPLIED IN SHOP OR FIELD.

10. CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, 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 D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION" 9TH EDITION. AT THE COMPLETION OF WELDING, ALL DAMAGE TO GALVANIZED COATING SHALL BE REPAIRED. SEE NOTE 9.

11. THE ENGINEER SHALL BE NOTIFIED OF ANY INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NON CONFORMING MATERIALS OR CONDITIONS TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE ENGINEER REVIEW.

12. APPLY A QUALITY CONCRETE SEALER SUCH AS THEROSEAL TO EXPOSED CONCRETE IN ACCORDANCE WITH MANUFACTURERS APPLICATIONS DIRECTIONS.

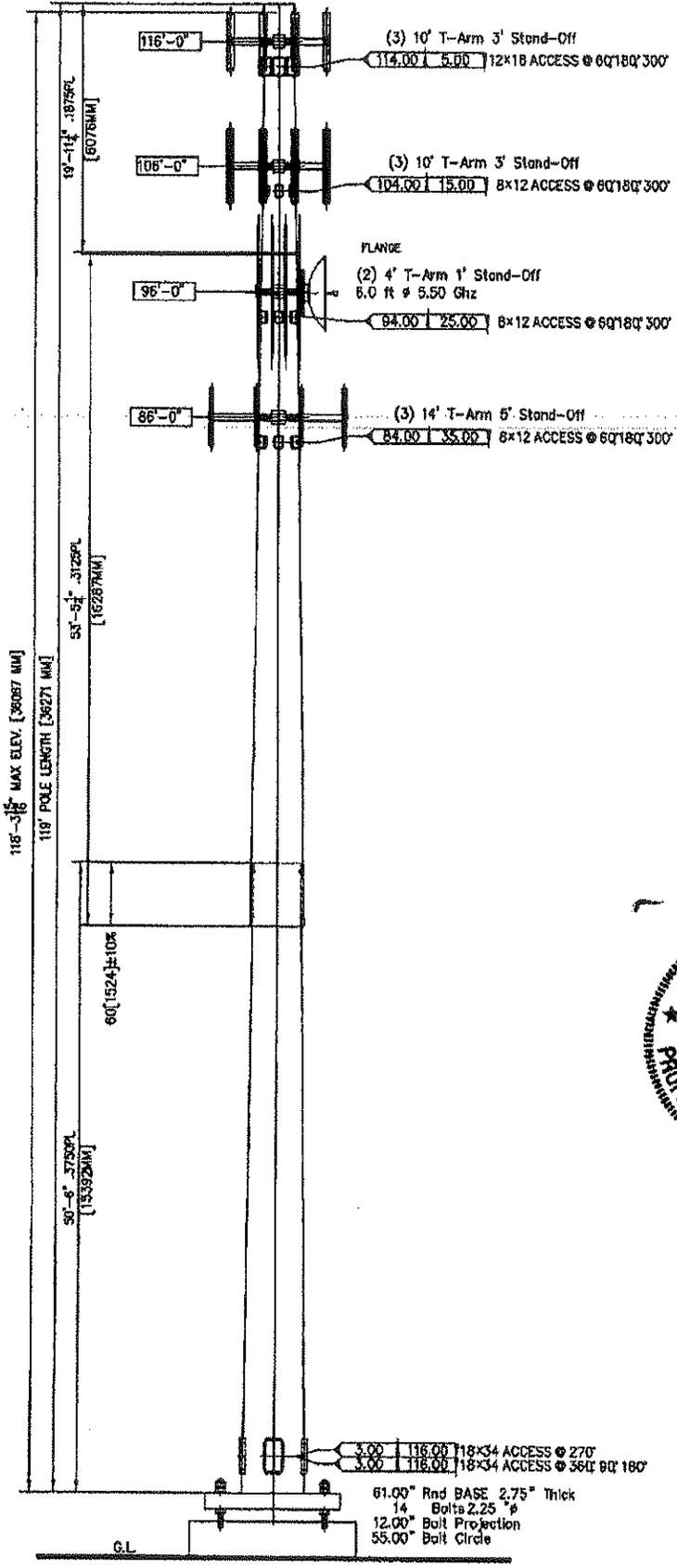
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T-Mobile
35 GRIFFIN ROAD
BLOOMFIELD, CT 06002
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ALL-POINTS TECHNOLOGY CORPORATION, P.C.
3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419
PHONE: (860)-663-1697
FAX: (860)-663-0935

T-MOBILE SITE NUMBER: CTNL813A	DEVELOPMENT & MANAGEMENT DOCUMENTS	NOTES & SPECIFICATIONS
APT FILING NUMBER: CT-255T-520	AMTRAK STONINGTON 3 166 PAWCATUCK AVENUE PAWCATUCK, CT 06379	
T-Mobile	DESIGN TYPE: RAW LAND	APT FILING NUMBER: CT-255T-520
35 GRIFFIN ROAD BLOOMFIELD, CT 06002 OFFICE: (860)-692-7100	REVISIONS:	APT DRAWING NUMBER: CTNL813A N-1.DWG
ALL-POINTS TECHNOLOGY CORPORATION, P.C.	REV. 0: 11/23/10: FOR REVIEW: SMC	DRAWN BY: RCB
3 SADDLEBROOK DRIVE KILLINGWORTH, CT 06419 PHONE: (860)-663-1697 FAX: (860)-663-0935	REV. 1: 12/17/10: FOR PERMIT: SMC	CHECKED BY: SMC
	REV. 2:	SCALE: AS SHOWN
	REV. 3:	DATE: 11/12/10
	REV. 4:	SHEET NUMBER: N-1





POLE SPECIFICATIONS			
POLE HEIGHT	119.00 FEET	TAPER	.2200 IN/FT
POLE SHAPE	18 SIDED POLYGON	ORIENTATION	FLAT-FLAT

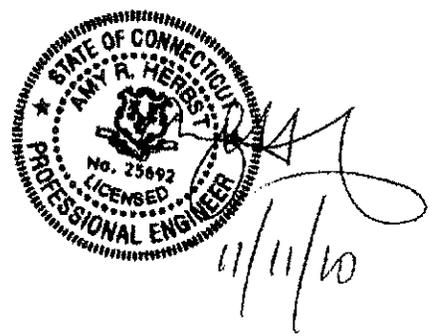
Levi	Qty	Elev	ft.	Future	DESCRIPTION
1	3	116.00	F	10'	T-Arm 3' Stand-Off
8	116.00	F			APX16DW-18DW-S-E-ACU
12	116.00	F			TMA
2	3	106.00	F	10'	T-Arm 3' Stand-Off
6	106.00	F			LPA-B0063/bcf.
6	106.00	F			BXA-189063/12CF
3	2	96.00	F	4'	T-Arm 1' Stand-Off
1	96.00	F			DB222
1	96.00	F			1109-1
4	1	95.90	F		Pipe Mount (up to 6' Dish)
1	95.00	F			6' SOLID DISH w/ RADOME 5.50 Ghz
5	3	86.00	F	14'	T-Arm 5' Stand-Off
12	86.00	F			RR65-18-XXDPL2

Load Case	DESCRIPTION	Wind (mph)	OLF	Rad. Ice	Factors	Wind (psf)
1)	Max Wind	110.0	1.00		1.89	.65 52.3
2)	Max Wind Load x.75	82.5	1.00	.50	1.89	.65 39.2
3)	Everyday Operating	50.0	1.00		1.69	.65 10.8

Load Case	DESCRIPTION	Res. Axial (kips)	Base Shear (kips)	React. Mom (ft-k)	Dip DEFL (ft)	Top SWAY (deg)
1)	Max Wind	26.2	31.6	2665	5.4	4.38
2)	Max Wind Load x.75	30.5	25.5	2185	4.4	3.62
3)	Everyday Operating	25.6	6.5	551	1.1	.91

Sec	LENGTH (ft)	Flat-Flat TOP φ	Flat-Flat BOT φ	THICK (in)	WEIGHT (lbs)	STEEL SPEC	FINISH
1	20.00	23.00	27.40	.1875	1500	A572-65	Galv
2	53.50	27.65	39.42	.3125	6700	A572-65	Galv
3	50.50	37.68	48.81	.3750	11500	A572-65	Galv
					TOTAL	19700	
APolt Cluster	Bolt φ	Kole φ					
AB	84.00	2.25	2.625		2000	A615-75	Galv-18"

- 1) FULL HEIGHT STEP BOLTS
- 2) ANTENNA FEED LINES RUN INSIDE POLE
- 3) THE MONOPOLE WAS DESIGNED IN ACCORDANCE WITH EIA/TIA-222-F.



T-MOBILE

Stonington, CT
CTNL813C
120.00 MONOPOLE

Sabre
Towers & Poles

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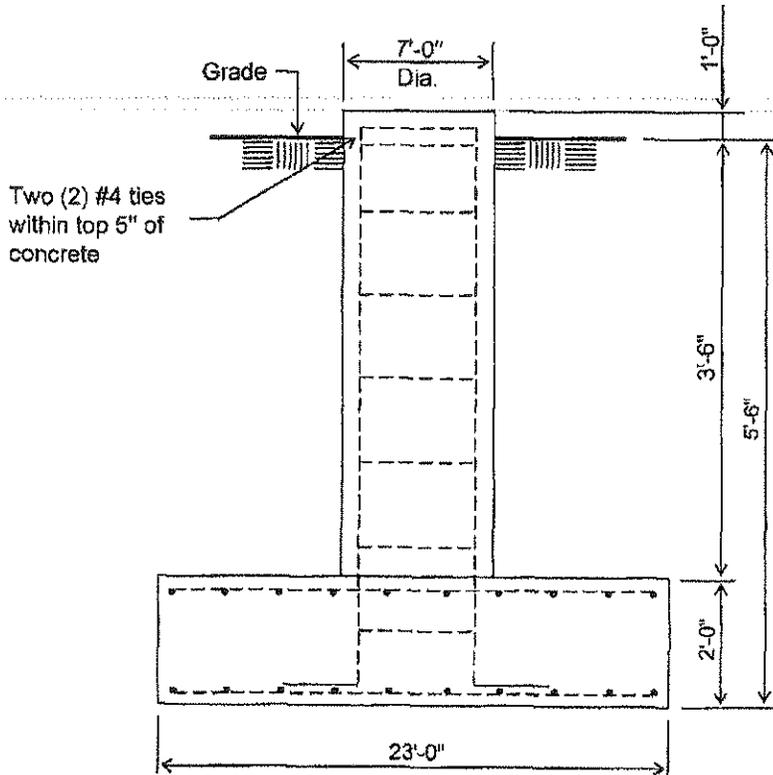
DATE	09Nov10	SIZE	DRAWING NO.	REV
		A	36878-PE	
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CHECKED BY	TRJ		N.T.S.	1



No.: 36878
 Page: 2
 Date: 11/10/10
 By: REB

Customer: T-MOBILE
Site: Stonington, CT CTNL813C

120' Monopole at
 110 mph Wind + 0.5 in. Ice per ANSI/TIA/EIA-222-F-1996.
 Antenna Loading per Page 1

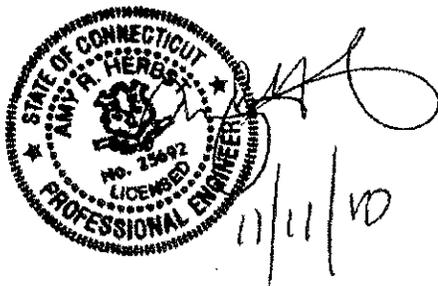


Notes:

- 1). Concrete shall have a minimum 28-day compressive strength of 4000 PSI, in accordance with ACI 318-05
- 2). Rebar to conform to ASTM specification A615 Grade 60.
- 3). All rebar to have a minimum of 3" concrete cover.
- 4). All exposed concrete corners to be chamfered 3/4".
- 5). The foundation design is based on the geotechnical report by Terracon project no. J2105210, dated: 9/22/10
- 6). See the geotechnical report for compaction requirements, if specified.

ELEVATION VIEW
 (45.6 Cu. Yds. each)
 (1 REQUIRED; NOT TO SCALE)

Rebar Schedule per Pad and Pier	
Pier	(36) #8 vertical rebar w/hooks at bottom w/#4 ties, two within top 5" of top of pier then 12" C/C
Pad	(28) #8 horizontal rebar evenly spaced each way top and bottom (112 Total)



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A Division of Sabre Industries, Inc.

November 11, 2010

Mr. Hans Fiedler
T-Mobile
35 Griffin Rd S
Bloomfield, CT 06002-1351

RE: 120' Sabre Monopole at #CTNL813C Stonington, CT (Sabre #36878 and #36879)

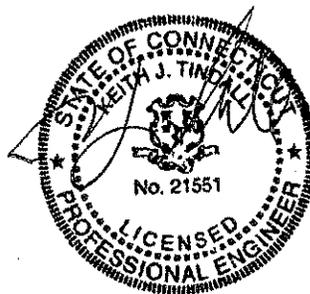
Dear Mr. Fiedler,

As shown in our Structural Design Report #36878 dated November 10, 2010, the above referenced monopole has been designed for a Basic Wind Speed of 110 mph and 1/2" ice in accordance with the Telecommunications Industry Association Standard ANSI/TIA/EIA-222-F, "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures".

When designed according to this standard, the wind pressures and steel strength capacities include several safety factors, resulting in an overall minimum safety factor of 25%. Therefore, it is highly unlikely that the monopole will fail structurally in a wind event where the design wind speed is exceeded within the range of the built-in safety factors.

Should the wind speed increase beyond the capacity of the built-in safety factors, to the point of failure of one or more structural elements, the most likely location of the failure would be within the flanged connection at the 100' level. Assuming that the wind pressure profile is similar to that used to design the monopole, the monopole will yield at the location of the highest combined stress ratio within the flanged connection. This is likely to result in the portion of the monopole above "folding over" onto the portion below, essentially collapsing upon itself. **Please note that this letter only applies to the above referenced monopole designed and manufactured by Sabre Towers & Poles.** In the unlikely event of total separation, this, in turn, would result in collapse of that section to the ground within a radius of 20 feet.

Sincerely,



11/11/10

Keith J. Tindall, P.E.
Vice President & Chief Engineer

Guyed Towers

Self-Supporting Towers

Monopoles

Concealment Structures

Turnkey Installations

Tower Modifications

