

JESSE A. LANGER

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

March 22, 2011

VIA FEDERAL EXPRESS and ELECTRONIC MAIL

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

***Re: Docket No. 392 – Application of T-Mobile Northeast LLC,
For a Certificate of Environmental Compatibility and Public
Need for the Construction, Maintenance and Operation of a
Telecommunications Facility at 387 Shore Road in
the Town of Old Lyme, 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"). Additionally, please find enclosed twenty-two (22) copies of the tower specifications and a letter regarding the yield point.

Development and Management Plan

Pursuant to Order Number 1, the telecommunications facility to be located at 387 Shore Road, Old Lyme ("Facility") includes a monopole at a height of 80 feet above grade level ("AGL") with antennas to be mounted on T-arms. The monopole would accommodate the antennas of T-Mobile and one other wireless provider, as well as the emergency communications equipment of the Town of Old Lyme ("Town"). As designed, the monopole would include a yield point at a height of approximately 54 feet AGL.

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,

Ms. Linda L. Roberts
Connecticut Siting Council
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Page 2

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

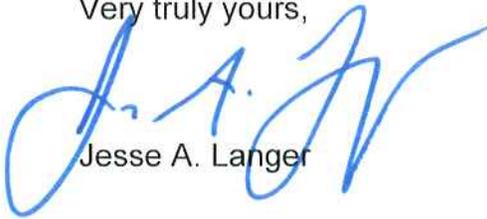
In accordance with the provisions of § 16-50j-77 of the Regulations of Connecticut State Agencies and Order Number 12, T-Mobile hereby notifies the Council of its intention to commence clearing and related site work immediately upon D&M Plan approval and to commence other construction activities immediately 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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Connecticut Siting Council
March 22, 2011
Page 3

Please contact me if you have any questions.

Very truly yours,

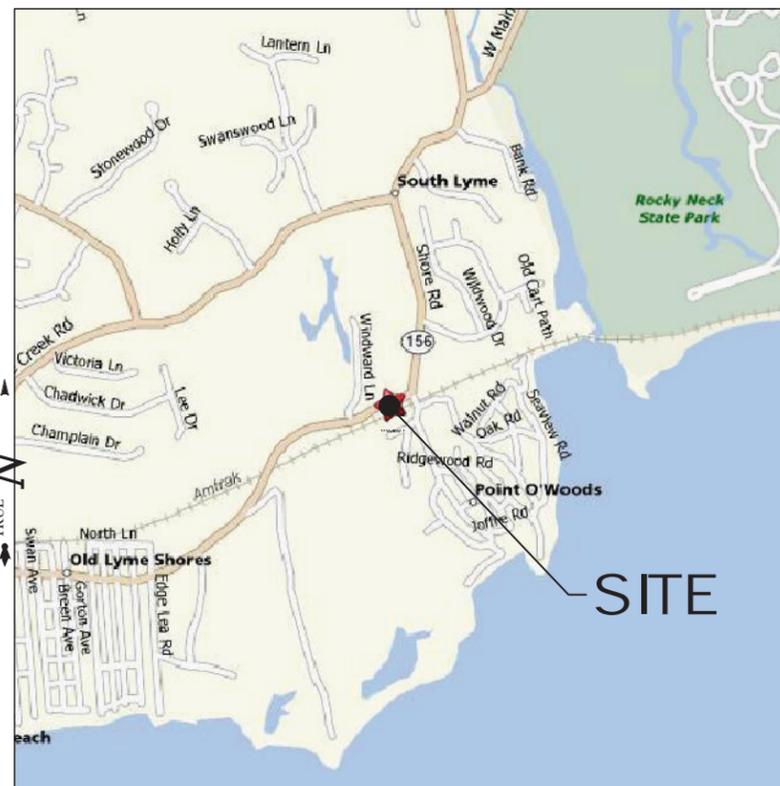


Jesse A. Langer

JAL:dIm
Enclosures

cc: Service List
Town of Old Lyme

LOCATION MAP



SCALE: NTS

USGS TOPOGRAPHIC MAP



SCALE: 1" = 2000'

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
GREGORY BENOIT
5 OVERBROOK ROAD
EAST LYME, CT 06333

T-MOBILE PROJECT MANAGER:
PAUL SAENZ (914) 447-3581

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) 447-5304
JOE GROUS - CASE# 1299939

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 71A 222F

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-1 T-MOBILE EQUIPMENT PLAN & DETAILS

R-1 ABUTTERS MAP & CONSTRUCTION SEQUENCE

S-1 COMPOUND DETAILS

SP-1 SITE PLAN

N-1 NOTES & SPECIFICATIONS

SP-2 GRADING & EROSION CONTROL PLAN

A-1 COMPOUND PLAN & TOWER ELEVATION

***SITE INFORMATION:**

-SITE NAME:..... AMTRAK OLD LYME 5
-SITE ID NUMBER:..... CTNL804B
-SITE ADDRESS:..... 387 SHORE ROAD
OLD LYME, CT 06371

-MAP:..... 10
-BLOCK:.....
-LOT:..... 8

-ZONE:..... C-30
-LATITUDE:..... 41° 17' 47.37" N
-LONGITUDE:..... 72° 15' 35.02" W
-ELEVATION:..... 38± AMSL
-FEMA FIRM
DESIGNATION:..... ZONE A8
-ACREAGE:..... 2.11 Ac

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SITE INFORMATION

CTNL804B
AMTRAK OLD LYME 5
387 SHORE ROAD
OLD LYME, CT 06371-1858

DEVELOPMENT & MANAGEMENT DOCUMENTS

AMTRAK OLD LYME 5
387 SHORE ROAD
OLD LYME, CT 06371-1858

TITLE SHEET
AND INDEX

DESIGN TYPE:
RAW LAND

APT FILING NUMBER: CT-2557-370
APT DRAWING NUMBER: CTNL804B T-1.DWG
DRAWN BY: RCB
CHECKED BY: SMC

REVISIONS:
REV.0: 02/14/11: FOR REVIEW: SMC
REV.1: 03/16/11: FOR CSC: SMC
REV.2:
REV.3:
REV.4:

SHEET NUMBER:
T-1



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. RELOCATE EXISTING 4" PVC SEWER LINE & CLEANOUT
4. CONSTRUCT NEW DRIVEWAY AND UTILITY TRENCH
5. REMOVE TREES, CLEAR AND ROUGH GRADE THE PROPOSED EQUIPMENT COMPOUND.
6. EXCAVATE FOR TOWER FOUNDATION AND COMPOUND UTILITIES.
7. INSTALL FORMS, STEEL REINFORCING, AND CONCRETE FOR TOWER FOUNDATION.
8. INSTALL BURIED GROUND RINGS, GROUND RODS, GROUND LEADS, UTILITY CONDUITS, AND UTILITY EQUIPMENT.
9. BACKFILL FOUNDATION.
10. ERECT MONOPOLE.
11. EXCAVATE FOR EQUIPMENT FOUNDATION.
12. INSTALL FORMS, STEEL REINFORCING, & CONCRETE FOR EQUIPMENT FOUNDATION.
13. BACKFILL FOUNDATION.
14. INSTALL TELECOMMUNICATIONS EQUIPMENT ON TOWER AND IN COMPOUND.
15. INSTALL COMPOUND GRAVEL SURFACES.
16. INSTALL FENCING W/ PRIVACY SLATS.
17. CONNECT GROUNDING LEADS AND LIGHTENING PROTECTION.
18. FINAL GRADE AROUND COMPOUND & INSTALL LANDSCAPING.
19. LOAM AND SEED DISTURBED AREAS OUTSIDE COMPOUND, AS REQUIRED.
20. REMOVE SILT FENCING AFTER SEEDED AREAS HAVE ESTABLISHED VEGETATION.
21. 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 CONTRACTORS' AND SUBCONTRACTORS' AVAILABILITY TO COMPLETE WORK AND WEATHER DELAYS.

SITE AREAS & VOLUMES OF EARTHWORK

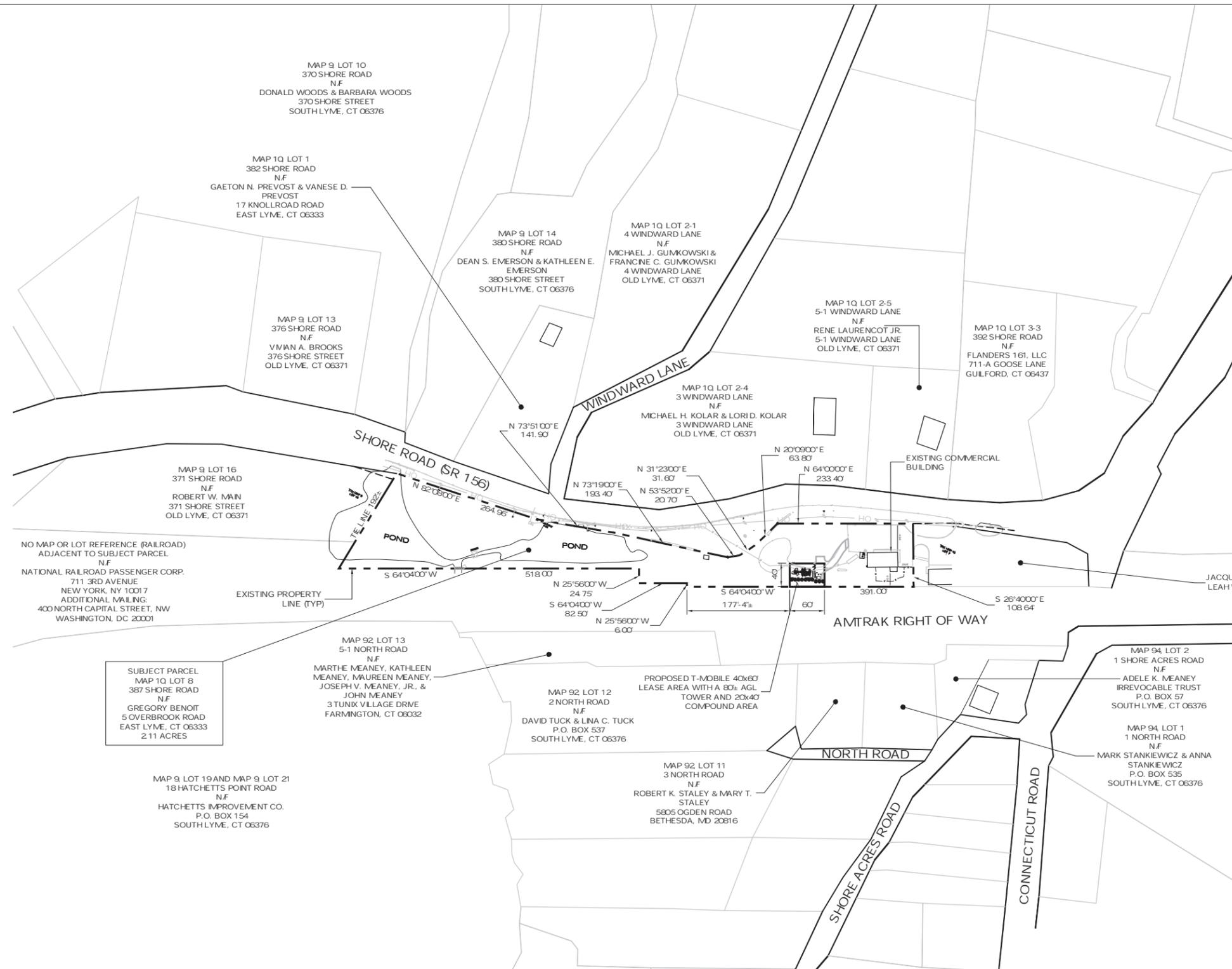
SITING SHALL ENTAIL 175 CUBIC YARDS OF CUT MATERIAL, 65 CY UTILITY TRENCHING, & 80 CY COMPOUND DRAIN AND 30 CUBIC YARDS OF FILL. APPROXIMATELY 90 CUBIC YARDS OF CRUSHED STONE SHALL BE BORROWED TO COMPLETE THE ENTRANCE ROAD AND COMPOUND. 90 CY OF CUT MATERIAL WILL BE STRIPPED TOPSOIL.

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



SUBJECT PARCEL
MAP 1Q LOT 8
387 SHORE ROAD
N.F.
GREGORY BENOIT
5 OVERBROOK ROAD
EAST LYME, CT 06333
2.11 ACRES

MAP 9 LOT 19 AND MAP 9 LOT 21
18 HATCHETS POINT ROAD
N.F.
HATCHETS IMPROVEMENT CO.
P.O. BOX 154
SOUTH LYME, CT 06376

MAP 92 LOT 13
5-1 NORTH ROAD
N.F.
MARTHE MEANEY, KATHLEEN
MEANEY, MAUREEN MEANEY,
JOSEPH V. MEANEY, JR., &
JOHN MEANEY
3 TUNIX VILLAGE DRIVE
FARMINGTON, CT 06032

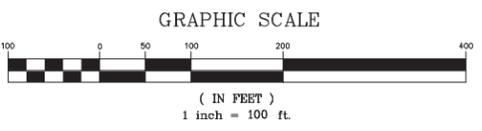
MAP 92 LOT 12
2 NORTH ROAD
N.F.
DAVID TUCK & LINA C. TUCK
P.O. BOX 537
SOUTH LYME, CT 06376

MAP 92 LOT 11
3 NORTH ROAD
N.F.
ROBERT K. STALEY & MARY T.
STALEY
5805 OGDEN ROAD
BETHESDA, MD 20816

MAP 94 LOT 2
1 SHORE ACRES ROAD
N.F.
ADELE K. MEANEY
IRREVOCABLE TRUST
P.O. BOX 57
SOUTH LYME, CT 06376

MAP 94 LOT 1
1 NORTH ROAD
N.F.
MARK STANKIEWICZ & ANNA
STANKIEWICZ
P.O. BOX 535
SOUTH LYME, CT 06376

ABUTTERS MAP
SCALE: 1" = 100'-0"



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T-MOBILE SITE NUMBER:
CTNL804B

APT FILING NUMBER:
CT-255T-370

T-Mobile

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

ALL-POINTS TECHNOLOGY CORPORATION, P.C.

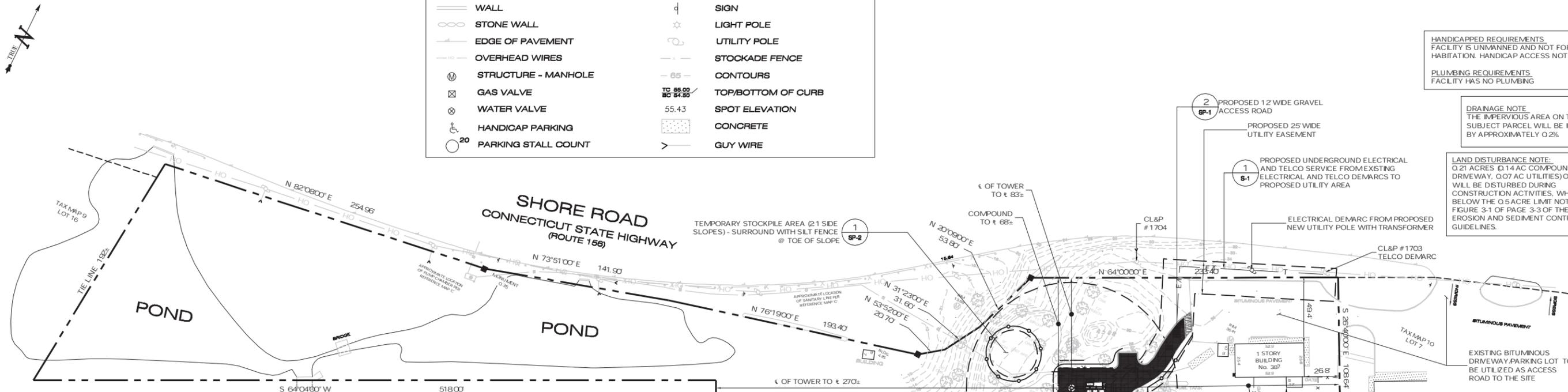
3 SADDLEBROOK DRIVE
KILLINGWORTH, CT 06419
PHONE: (860)-663-1697
FAX: (860)-663-0935

DEVELOPMENT & MANAGEMENT DOCUMENTS	
AMTRAK OLD LYME 5 387 SHORE ROAD OLD LYME, CT 06371-1858	
DESIGN TYPE:	APT FILING NUMBER: CT-255T-370
RAW LAND	APT DRAWING NUMBER: CTNL804B
DRAWN BY: RCB	SCALE: AS NOTED
CHECKED BY: SMC	DATE: 02/09/11
REVISIONS:	
REV. 0: 02/14/11: FOR REVIEW: SMC	
REV. 1: 03/16/11: FOR CSC: SMC	
REV. 2:	
REV. 3:	
REV. 4:	

**ABUTTERS MAP &
CONSTRUCTION
SEQUENCE**

SHEET NUMBER:
R-1

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



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

PLUMBING REQUIREMENTS
FACILITY HAS NO PLUMBING

DRAINAGE NOTE
THE IMPERVIOUS AREA ON THE SUBJECT PARCEL WILL BE INCREASED BY APPROXIMATELY 0.2%

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.

NOTES

1. THIS MAP AND SURVEY HAVE 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 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 MAP 'A'

HORIZONTAL ACCURACY CLASS: A-2

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.

3. LOT AREA TO THE LINES = 91,832 SQUARE FEET OR 2.11 ACRES. LIMIT OF TITLE IS NOT DETERMINED BY THIS SURVEY.

4. ALL MONUMENTATION FOUND OR SET ON THE SUBJECT PREMISES IS DEPICTED HEREON.

5. NORTH REFERS APPROXIMATELY TO REFERENCE MAP 'A'.

6. REFERENCE MAPS:

(A) NEW YORK, NEW HAVEN & HARTFORD RAILROAD, OFFICE OF ENGINEER - REAL ESTATE SURVEYS, LAND IN OLD LYME, CONN. TO BE CONVEYED TO GEORGE AND MARY EMERSON, SCALE 1"=100', DATED JULY, 1952, AND FILED AS MAP NO. 1256 WITH THE OLD LYME TOWN CLERK.

(B) CONNECTICUT STATE HIGHWAY DEPARTMENT RIGHT OF WAY MAP, TOWN OF OLD LYME, SHORE ROAD FROM MILE CREEK EASTERLY TO THE SOUTH LYME STATION, ROUTE NO. 156, SHEET 4 OF 4, SCALE 1"=40', DATED NOV. 30, 1932.

(C) SITE PLAN, PROPOSED SUBSURFACE SANITARY DISPOSAL SYSTEM PREPARED FOR NORMAN EMERSON, CONNECTICUT ROUTE 156 OLD LYME, CT., PREPARED BY ANGUS L. McDONALD & ASSOCIATES, DATED NOV. 29, 1982, SCALE 1"=20'.

7. PARCEL OWNER OF RECORD: GREGORY BENOIT, 5 COVERBROOK ROAD, EAST LYME, CT 06333.

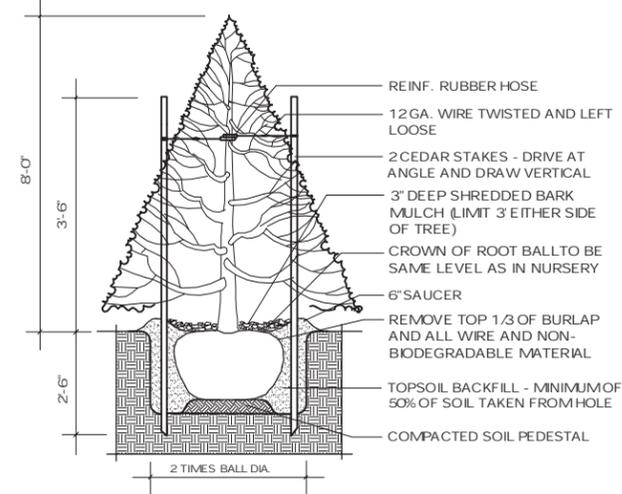
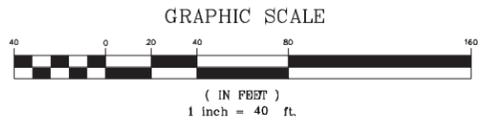
8. THE PROPERTY IS TOGETHER WITH THE FOLLOWING:
 A) A RIGHT OF WAY FOR INGRESS AND EGRESS OVER TAX LOT 7 TO ROUTE 156 AS SET FORTH IN VOLUME 100, PAGE 483 OF THE OLD LYME LAND RECORDS (NOT PLOTTABLE).
 B) THE RIGHT TO USE AN EXISTING SEPTIC SYSTEM, AS SET FORTH IN VOLUME 100, PAGE 483 OF THE OLD LYME LAND RECORDS (NOT PLOTTABLE).
 C) ALL RIGHTS UNDER PERMITS FROM THE CONNECTICUT DEPARTMENT OF TRANSPORTATION FOR A SEWER CROSSING, AS RECORDED IN VOLUME 145, PAGES 745 AND 746 OF THE OLD LYME LAND RECORDS, APPROXIMATE LOCATION OF SEWER LINE IS DEPICTED HEREON.
 D) AN EASEMENT FOR THE RIGHT, PRIVILEGE, AND AUTHORITY TO PERPETUALLY MAINTAIN A SEPTIC SYSTEM DRAINAGE FIELD AS SHOWN ON SURVEY PLAN, PROPERTY OF NORMAN EMERSON, 382 SHORE ROAD, OLD LYME, CT, TO BE CONVEYED TO MARK W. & ROBERTA E. BUGBEE, DATED DEC. 16, 1982, SCALE 1"=30', PREPARED BY ANGUS L. McDONALD & ASSOCIATES.

9. THE PROPERTY IS SUBJECT TO: (A) OBLIGATIONS AS SET FORTH IN VOLUME 52 AT PAGE 100 AND VOLUME 339 AT PAGE 601 OF THE OLD LYME LAND RECORDS (NOT PLOTTABLE), AND (B) RIGHTS OF OTHERS AS SET FORTH IN VOLUME 100 AT PAGE 483 OF THE OLD LYME LAND RECORDS (NOT PLOTTABLE).

10. 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.

11. SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS PART OF THIS SURVEY.

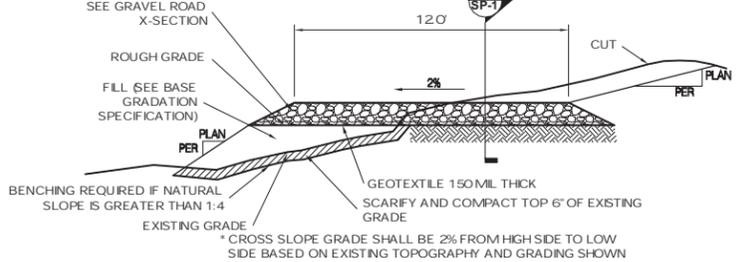
NOTE: THREE (3) TREES WILL BE REMOVED IN CONSTRUCTING THE FACILITY.



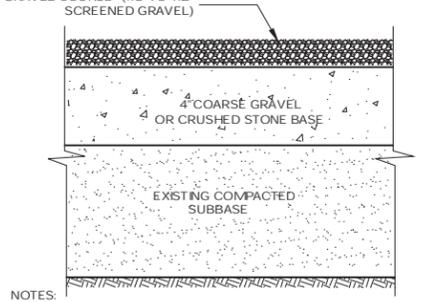
1 EVERGREEN TREE PLANTING DETAIL
SCALE: NTS

PLANTING SCHEDULE

QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	SPACING	SYMBOL	REMARKS
10	THUJA OCC. TECHNY	MISSION ARBORVITAE	8'-0" TALL	B & B	6'-0" O.C.		FULL TO BASE



2 TYPICAL GRAVEL ROAD SECTION
SCALE: NTS



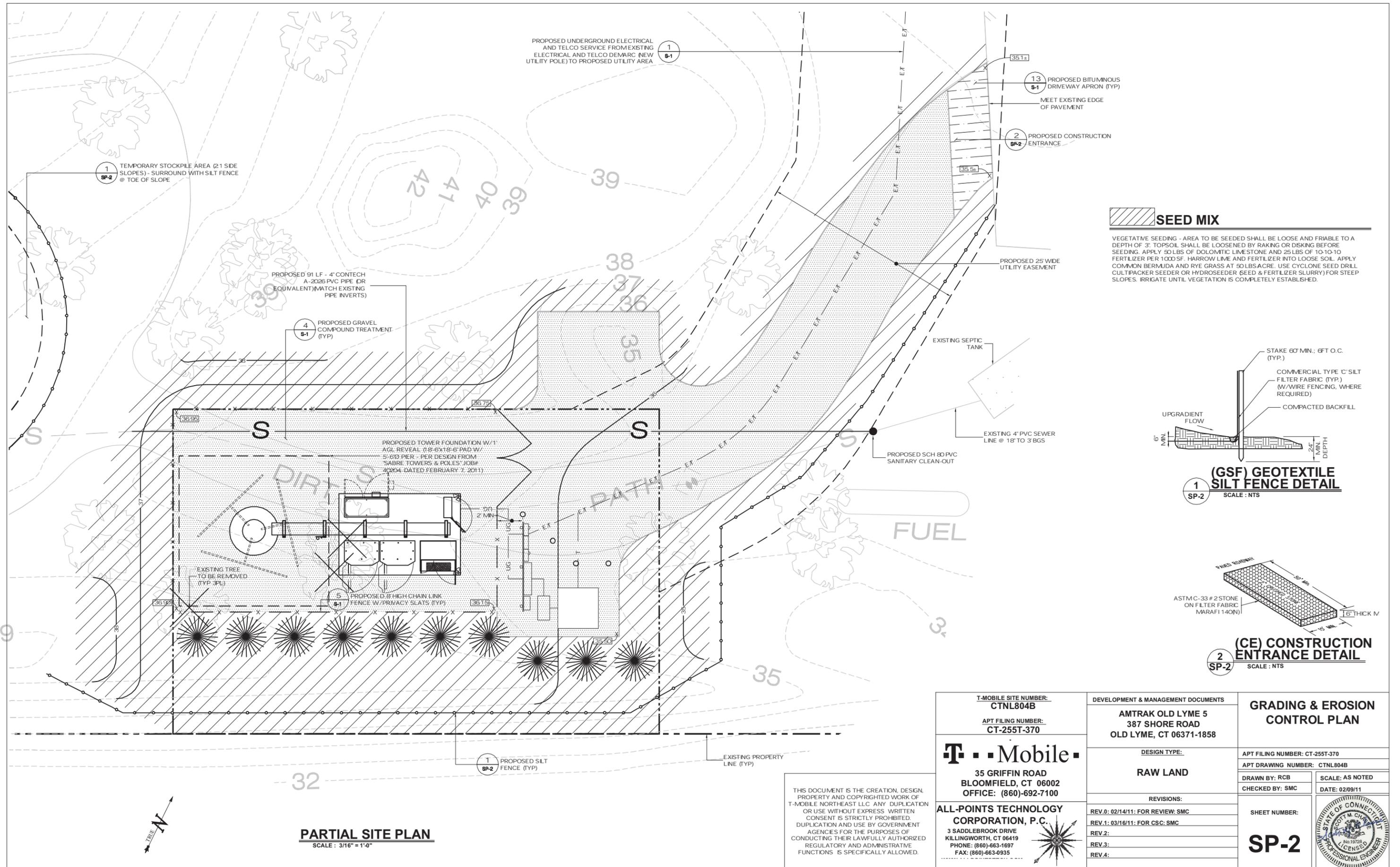
3 GRAVEL ROAD X-SECTION
SCALE: NTS

NOTES:

- SUBBASE MAY CONSIST OF NATIVE MATERIALS IF FOUND ACCEPTABLE BY THE ENGINEER. SUBBASE TO BE COMPACTED TO 95% MAX DRY DENSITY.
- SUBBASE IS TO CLEAN GRANULAR MATERIAL (SEE NOTES, SHEET N-1) FREE FROM DEBRIS AND UNSUITABLE MATERIALS.
- RECYCLED CONCRETE MAY BE SUBSTITUTED FOR GRAVEL OR CRUSHED STONE BASE IN NON-WETLANDS AREAS.

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T-Mobile 35 GRIFFIN ROAD BLOOMFIELD, CT 06002 OFFICE: (860)-692-7100	T-MOBILE SITE NUMBER: CTNL804B	DEVELOPMENT & MANAGEMENT DOCUMENTS AMTRAK OLD LYME 5 387 SHORE ROAD OLD LYME, CT 06371-1858	SITE PLAN
	APT FILING NUMBER: CT-255T-370	DESIGN TYPE: RAW LAND	APT FILING NUMBER: CT-255T-370 APT DRAWING NUMBER: CTNL804B DRAWN BY: RCB CHECKED BY: SMC
ALL-POINTS TECHNOLOGY CORPORATION, P.C. 3 SADDLEBROOK DRIVE KILLINGWORTH, CT 06419 PHONE: (860)-663-1697 FAX: (860)-663-0935	REVISIONS: REV. 0: 02/14/11; FOR REVIEW: SMC REV. 1: 03/16/11; FOR CSC: SMC REV. 2: REV. 3: REV. 4:	SHEET NUMBER: SP-1	

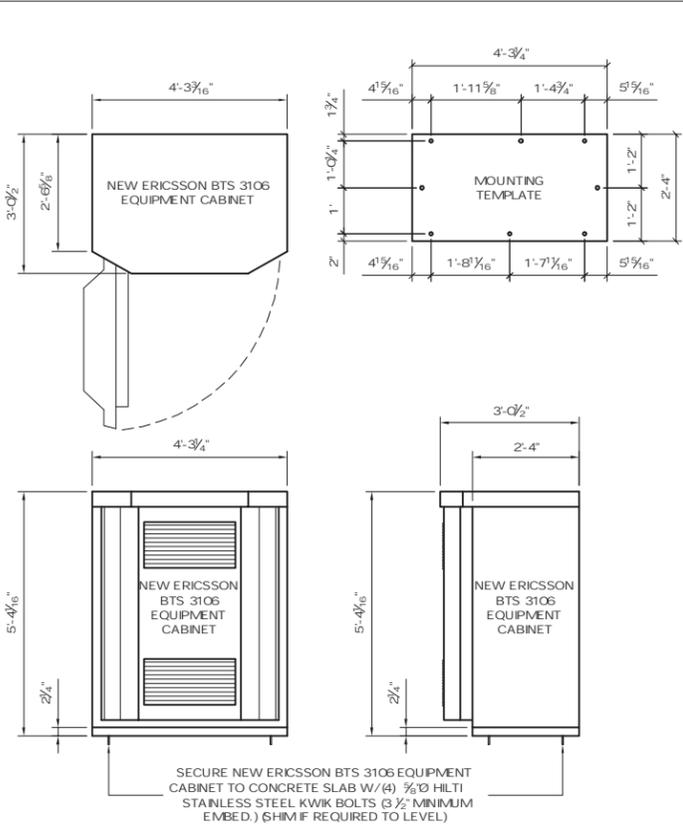


PARTIAL SITE PLAN
SCALE: 3/16" = 1'-0"

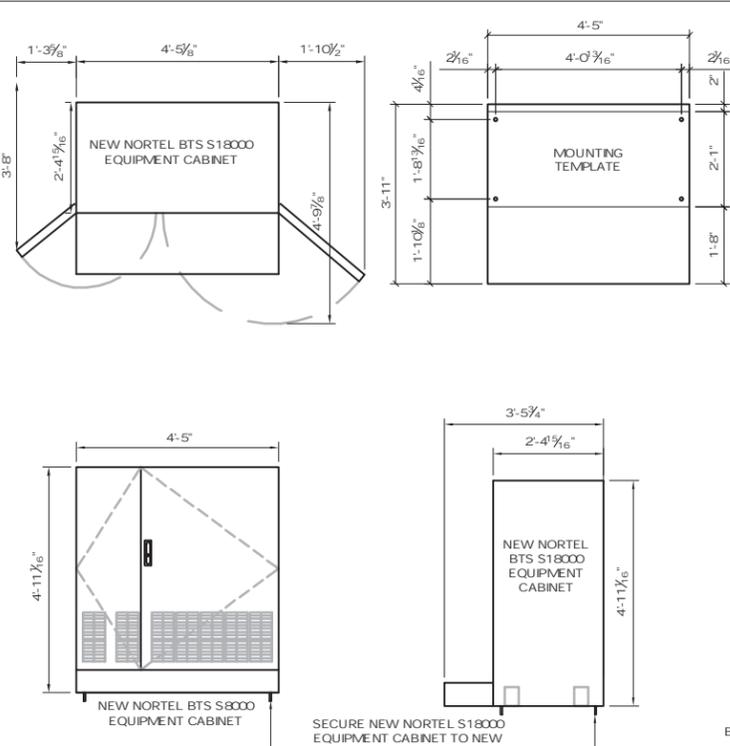
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T-Mobile 35 GRIFFIN ROAD BLOOMFIELD, CT 06002 OFFICE: (860)-692-7100	T-MOBILE SITE NUMBER: CTNL804B	DEVELOPMENT & MANAGEMENT DOCUMENTS AMTRAK OLD LYME 5 387 SHORE ROAD OLD LYME, CT 06371-1858	GRADING & EROSION CONTROL PLAN
	APT FILING NUMBER: CT-255T-370	DESIGN TYPE: RAW LAND	APT FILING NUMBER: CT-255T-370 APT DRAWING NUMBER: CTNL804B
ALL-POINTS TECHNOLOGY CORPORATION, P.C. 3 SADDLEBROOK DRIVE KILLINGWORTH, CT 06419 PHONE: (860)-663-1697 FAX: (860)-663-0935	REVISIONS: REV.0: 02/14/11: FOR REVIEW: SMC REV.1: 03/16/11: FOR CSC: SMC REV.2: REV.3: REV.4:	DRAWN BY: RCB CHECKED BY: SMC	SCALE: AS NOTED DATE: 02/09/11 SHEET NUMBER: SP-2

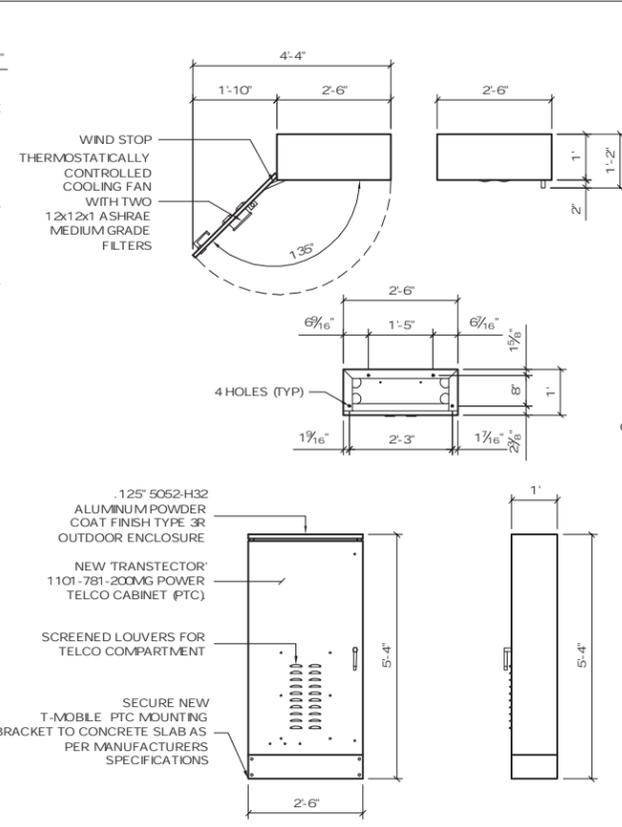




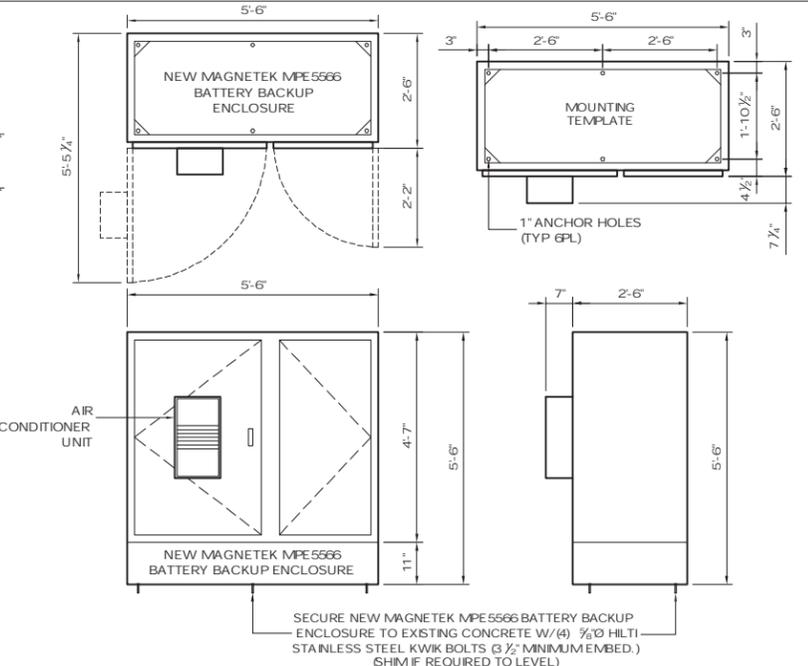
1 ERICSSON RBS 3106 EQUIPMENT CABINET
SCALE: 1/2" = 1'-0"



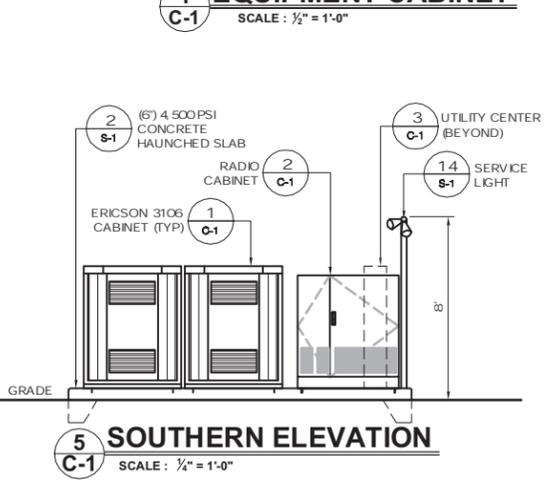
2 NORTEL BTS S18000 EQUIPMENT CABINET
SCALE: 1/2" = 1'-0"



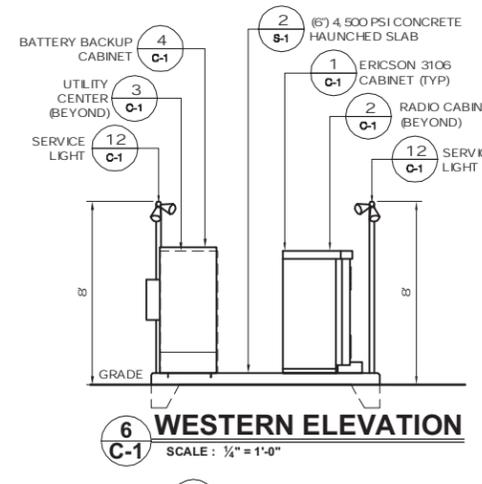
3 TRANSECTOR PTC CABINET
SCALE: 1/2" = 1'-0"



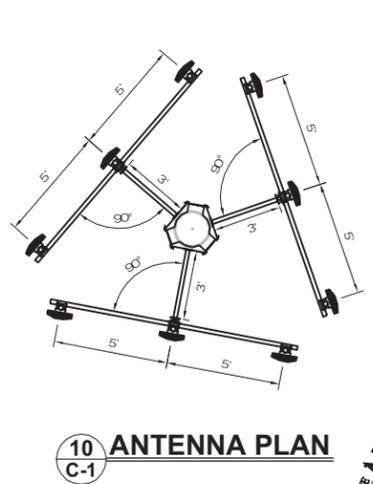
4 BATTERY BACKUP CABINET
SCALE: 1/2" = 1'-0"



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



6 WESTERN ELEVATION
SCALE: 1/4" = 1'-0"

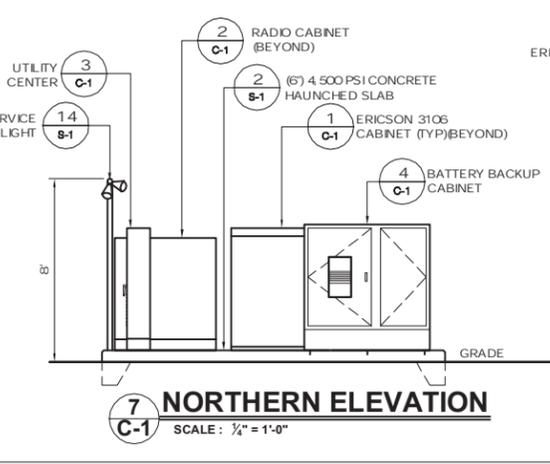


10 ANTENNA PLAN
SCALE: 1/4" = 1'-0"

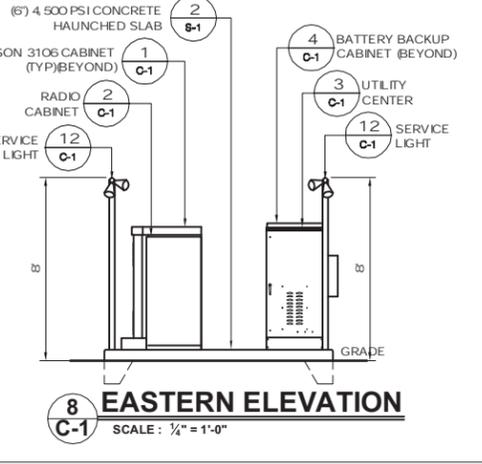
DESIGN LOAD CRITERIA

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

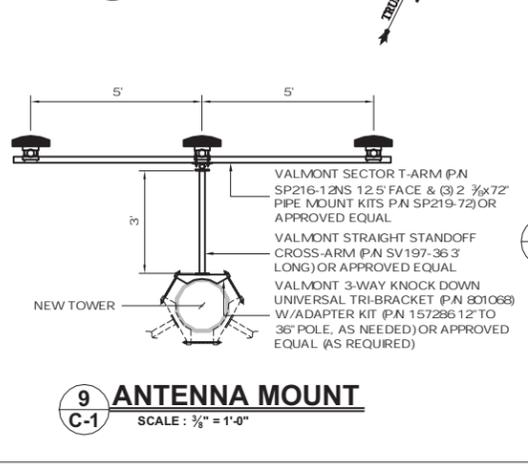
DESIGN BASIS	CONNECTICUT STATE BUILDING CODE
GOVERNING CODE	40 PSF (ASCE 7-02)
DESIGN LIVE LOADS	II
IMPORTANCE CATEGORY	
SNOW LOAD:	
GROUND SNOW LOAD (Pg)	30 PSF
IMPORTANCE FACTOR	1.0
EXPOSURE FACTOR (Ce)	0.9
THERMAL FACTOR (Ct)	1.0
WIND LOAD:	
BASIC WIND LOAD	120 MPH (3 SECOND GUST)
EXPOSURE GROUP	C
IMPORTANCE FACTOR	1.00
EQUIPMENT LOAD:	
EQUIPMENT DL	9,000 LBS
SEISMIC DESIGN PARAMETERS:	
SEISMIC USE GROUP	I
MCE SPECTRAL ACCELERATION SHORT (Sa)	0.255
MCE SPECTRAL ACCELERATION SHORT (Si)	0.077
SITE CLASS	D FOR UNKNOWN SOIL PROPERTIES
IMPORTANCE FACTOR	1.0



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



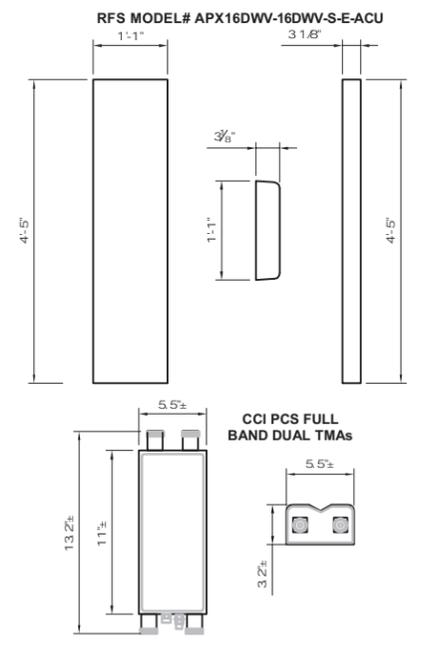
8 EASTERN ELEVATION
SCALE: 1/4" = 1'-0"



9 ANTENNA MOUNT
SCALE: 1/4" = 1'-0"

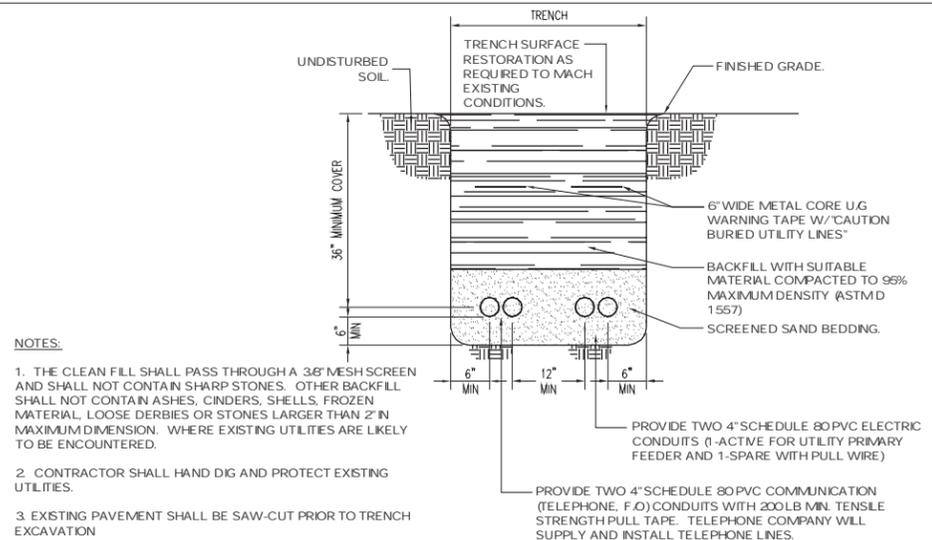


11 TYPICAL GSM & GPS ANTENNA DETAILS
SCALE: NTS

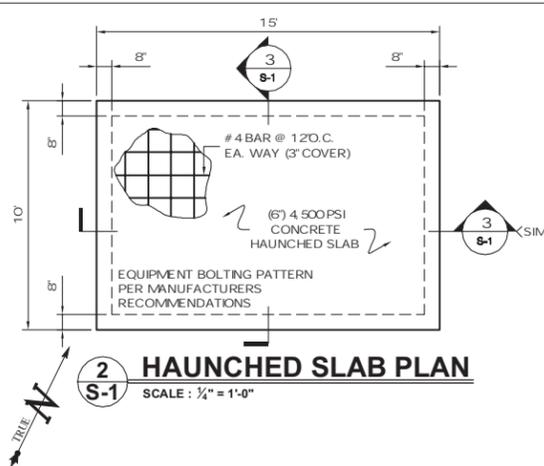


12 TYPICAL PANEL ANTENNA & TMA
SCALE: NTS

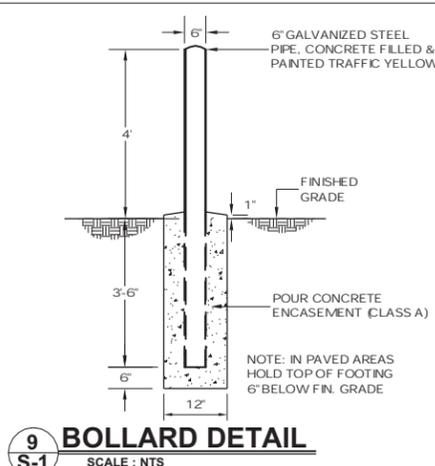
T-MOBILE SITE NUMBER: CTNL804B APT FILING NUMBER: CT-255T-370	DEVELOPMENT & MANAGEMENT DOCUMENTS AMTRAK OLD LYME 5 387 SHORE ROAD OLD LYME, CT 06371-1858		T-MOBILE EQUIPMENT PLAN & DETAILS RAW LAND
	DESIGN TYPE: RAW LAND		
T-Mobile 35 GRIFFIN ROAD BLOOMFIELD, CT 06002 OFFICE: (860)-692-7100 ALL-POINTS TECHNOLOGY CORPORATION, P.C. 3 SADDLEBROOK DRIVE KILLINGWORTH, CT 06419 PHONE: (860)-663-1697 FAX: (860)-663-0935	APT FILING NUMBER: CT-255T-370 APT DRAWING NUMBER: CTNL804B C-1.DWG DRAWN BY: RCB CHECKED BY: SMC		SCALE: AS NOTED DATE: 02/09/11
	REVISIONS: REV. 0: 02/14/11: FOR REVIEW: SMC REV. 1: 03/16/11: FOR CSC: SMC REV. 2: REV. 3: REV. 4:		SHEET NUMBER: C-1



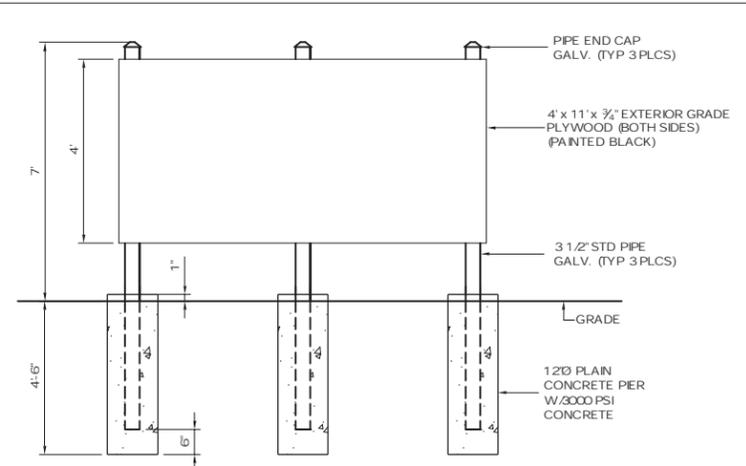
1 PRIMARY UTILITY TRENCH
S-1 SCALE: NTS



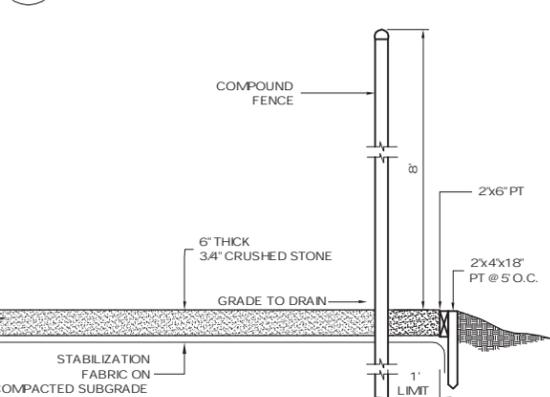
2 HAUNCHED SLAB PLAN
S-1 SCALE: 1/2" = 1'-0"



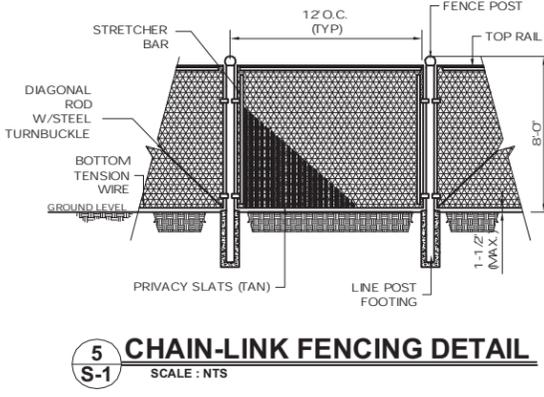
9 BOLLARD DETAIL
S-1 SCALE: NTS



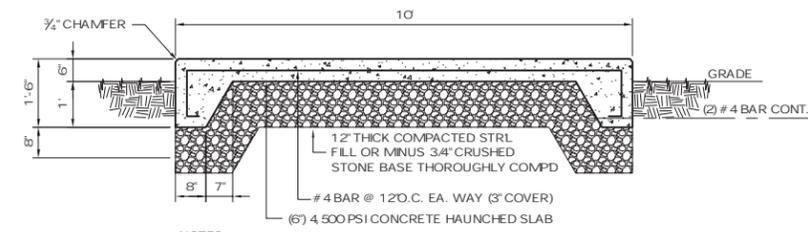
10 UTILITY BACKBOARD DETAIL
S-1 SCALE: NTS



4 COMPOUND DETAIL
S-1 SCALE: NTS



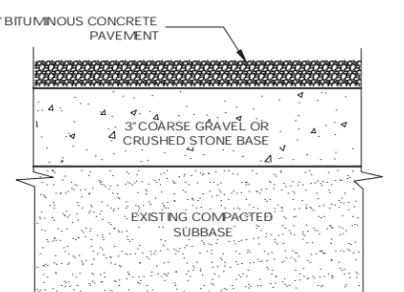
5 CHAIN-LINK FENCING DETAIL
S-1 SCALE: NTS



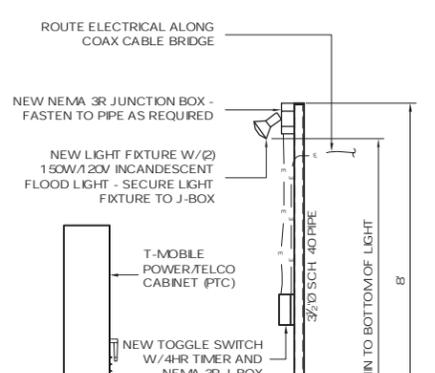
3 HAUNCHED SLAB DETAIL
S-1 SCALE: 1/2" = 1'-0"



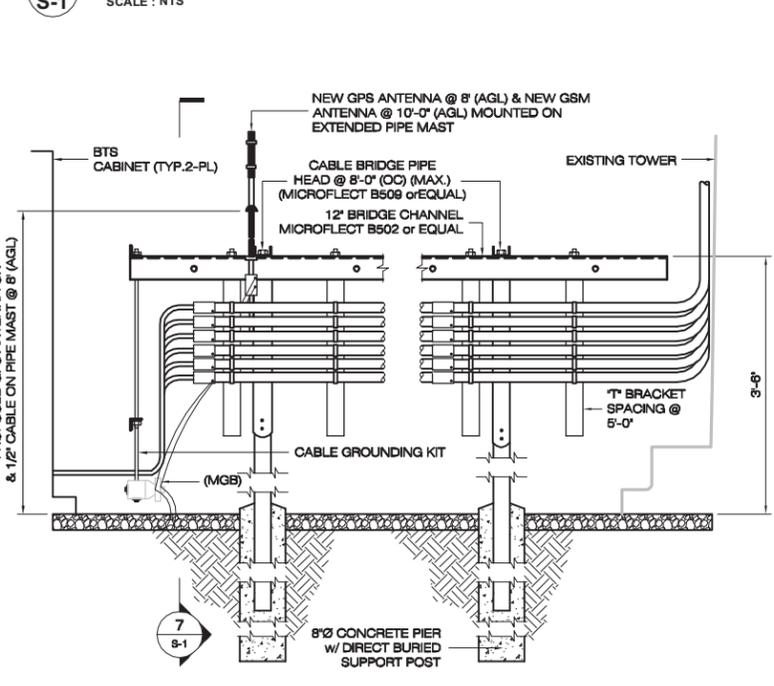
6 FENCE & GATE DETAIL
S-1 SCALE: N.T.S.



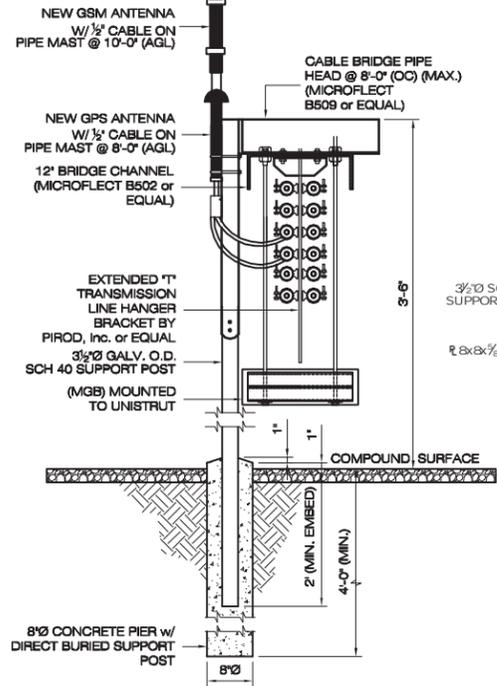
13 PAVEMENT SECTION
S-1 SCALE: NTS



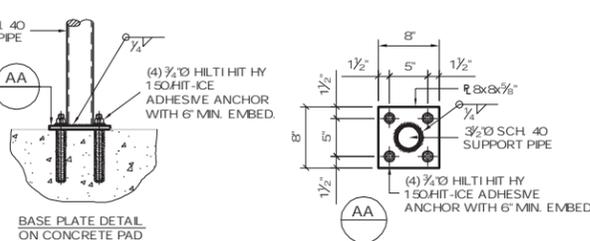
14 SERVICE LIGHT
S-1 SCALE: 1/2" = 1'-0"



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.

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T-Mobile 35 GRIFFIN ROAD BLOOMFIELD, CT 06002 OFFICE: (860)-692-7100	T-MOBILE SITE NUMBER: CTNL804B APT FILING NUMBER: CT-255T-370	DEVELOPMENT & MANAGEMENT DOCUMENTS AMTRAK OLD LYME 5 387 SHORE ROAD OLD LYME, CT 06371-1858	COMPOUND DETAILS
	RAW LAND	DESIGN TYPE: RAW LAND	APT FILING NUMBER: CT-255T-370 APT DRAWING NUMBER: CTNL804B S-1.DWG DRAWN BY: RCB CHECKED BY: SMC SCALE: AS NOTED DATE: 02/09/11
ALL-POINTS TECHNOLOGY CORPORATION, P.C. 3 SADDLEBROOK DRIVE KILLINGWORTH, CT 06419 PHONE: (860)-663-1697 FAX: (860)-663-0935	REVISIONS: REV. 0: 02/14/11: FOR REVIEW: SMC REV. 1: 03/16/11: FOR CSC: SMC REV. 2: REV. 3: REV. 4:	SHEET NUMBER: S-1	

GENERAL NOTES:

- ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL COMPLY WITH THE STANDARDS AND SPECIFICATIONS OF THE TOWN OF OLD LYME, AND OTHER GOVERNMENTAL AGENCIES, AS APPLICABLE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS BEFORE COMMENCING WORK. THE CONTRACTOR SHALL FOLLOW CONDITIONS OF ALL APPLICABLE PERMITS AND WORK IN ACCORD WITH OSHA REGULATIONS.
- UTILITY INFORMATION SHOWN ON THE PLAN IS BASED ON VISIBLE FIELD EVIDENCE 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 1-800-922-4455 (72) HOURS BEFORE DIGGING, DRILLING OR BLASTING. CARE SHALL BE TAKEN NOT TO DISTURB EXISTING UTILITIES AND SERVICE CONNECTIONS (OR PORTIONS THERE OF) TO REMAIN. CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING STRUCTURES OR UTILITIES DAMAGED BY HIS OPERATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF NEW SERVICE CONNECTIONS AND SHALL COORDINATE WORK WITH THE APPROPRIATE UTILITY COMPANY.
- 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.
- EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PER 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.
- ELECTRIC SERVICE SHALL BE COORDINATED WITH CONNECTICUT LIGHT & POWER (CL & P)
- ALL ELEVATIONS SHOWN ARE IN N.G.V. DATUM 1929
- IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- 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.
- THE CONTRACTOR SHALL SHORE ALL TRENCH EXCAVATION GREATER THAN 5 FEET IN DEPTH OR LESS WHERE SOIL CONDITIONS ARE DEEMED UNSTABLE. ALL SHEETING AND/OR SHORING METHODS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER.
- 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.
- 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 PROOFROLLED 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 MANUFACTURERS DESIGNS AND SPECIFICATIONS. **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, THIN, ELONGATED OR LAMINATED PIECES 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 GLACIAL TILL MAY BE SELECTIVELY RE-USED AS STRUCTURAL FILL, PROVIDED THEY MEET THE GRADATION REQUIREMENTS IN NOTE 2 BELOW.
COMMON FILL	VARES (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 GLACIAL TILL MAY BE RE-USED AS COMMON FILL PROVIDED THEY ARE FREE OF ORGANICS AND CAN BE ADEQUATELY COMPACTED.

- 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.
- IMPORTED STRUCTURAL FILL SHOULD MEET THE FOLLOWING GRADATION:
PERCENT PASSING BY WEIGHT

SEIVE SIZE	STRUCTURAL FILL
6"	100
3"	70-100
2"	(100)%
3/4"	45-95
NO. 4	30-90
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

SEDIMENTATION/EROSION

- 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.
 - 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:
 - LIMITS OF CLEARING AND GRUBBING SHALL BE CLEARLY MARKED BEFORE COMMENCING WITH SUCH WORK.
 - EXISTING VEGETATION TO REMAIN SHALL BE PROTECTED AND REMAIN UNDISTURBED.
 - CLEARING AND GRADING SHALL BE SCHEDULED SO AS TO MINIMIZE THE SIZE OF EXPOSED AREAS AND THE LENGTH OF TIME THAT AREAS ARE EXPOSED.
 - 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.
 - THE LENGTH AND STEEPNESS OF CLEARED SLOPES SHALL BE MINIMIZED TO REDUCE RUNOFF VELOCITIES.
 - RUNOFF SHALL BE DIVERTED AWAY FROM CLEARED SLOPES.
 - ALL SEDIMENT SHALL BE TRAPPED ON THE SITE.
- 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.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN SEC MEASURES THROUGHOUT DURATION OF PROJECT UNTIL DISTURBED LAND IS THOROUGHLY VEGETATED.
 - FAILURE OF THE SEC SYSTEMS SHALL BE CORRECTED IMMEDIATELY AND SUPPLEMENTED WITH ADDITIONAL MEASURES AS NEEDED.

VEGETATIVE SEEDING: UON 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 LIMB AND FERTILIZER INTO LOOSE SOIL. APPLY COMMON BERMUDA AND RYE GRASS AT 50 LBS/ACRE. USE CYCLONE SEED DRILL CULTIPACKER SEEDER OR HYDROSEEDER (SEED & FERTILIZER SLURRY) FOR STEEP SLOPES. IRRIGATE UNTIL VEGETATION IS COMPLETELY ESTABLISHED.

- 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.
- 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.
- CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOS.
- 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.
- APPROPRIATE MEANS SHALL BE USED TO CONTROL DUST DURING CONSTRUCTION.
- 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.

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.

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.

ALL DISTURBED AREAS OUTSIDE THE LIMITS OF THE EQUIPMENT LEASE AREA SHALL BE PERMANENTLY ESTABLISHED WITH A VEGETATIVE GROUND COVER. STILLING BASIN SHALL BE UTILIZED FOR ANY DE-WATERING DISCHARGE WHICH MAY OCCUR DURING CONSTRUCTION OPERATIONS.

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.

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

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.

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.

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.

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.

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 10 DAYS. LAND SHOULD NOT BE LEFT EXPOSED DURING THE WINTER MONTHS.

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 UNSPOLED.

STRUCTURAL NOTES & SPECIFICATIONS

STEEL

- 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.
- 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.
- STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A992 (FY-50 KSI) UNLESS OTHERWISE NOTED.
- STEEL PIPE SHALL CONFORM TO ASTM A500 GRADE B, STEEL PIPE DIAMETERS NOTED ON THE DRAWINGS ARE NOMINAL.
- 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 ASSEMBLES.
- NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIAMETER GALVANIZED ASTM A 307 BOLTS UNLESS OTHERWISE NOTED.
- 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.
- 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.
- DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY UP ALL DAMAGED GALVANIZED STEEL WITH COLD ZINC, GALVANOX, DRY GALV, ZINC RT, OR APPROVED EQUIVALENT, IN ACCORDANCE WITH MANUFACTURERS GUIDELINES. TOUCH UP DAMAGED NON GALVANIZED STEEL WITH SAME PAINT APPLIED IN SHOP OR FIELD.
- 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.
- 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.
- APPLY A QUALITY CONCRETE SEALER SUCH AS THEROSEAL TO EXPOSED CONCRETE IN ACCORDANCE WITH MANUFACTURERS APPLICATIONS DIRECTIONS.

SITE NOTES

- ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR AND THE TESTING AGENCY PRIOR TO BEGINNING ANY MATERIAL ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND THE OWNER'S ENGINEER. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES.
- DAMAGE BY THE CONTRACTOR TO UTILITIES OR PROPERTY OF OTHERS, INCLUDING EXISTING PAVEMENT AND OTHER SURFACES DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITIONS BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CLIENT. FOR GRASSED AREAS, SEED AND MULCH SHALL BE ACCEPTABLE.
- THE CONTRACTOR SHALL REWORK (DRY, SCARIFY, ETC.) ALL MATERIAL NOT SUITABLE FOR SUBGRADE IN ITS PRESENT STATE. IF THE MATERIAL, AFTER REWORKING, REMAINS UNSUITABLE THEN THE CONTRACTOR SHALL UNDERCUT THIS MATERIAL AND REPLACE WITH APPROVED MATERIAL AT HIS EXPENSE. ALL SUBGRADES SHALL BE PROOF ROLLED WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK PRIOR TO PAVING. ANY SOFT MATERIAL SHALL BE REWORKED AND REPLACED.
- THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL DITCHES, PIPES, AND OTHER DRAINAGE STRUCTURES FREE FROM OBSTRUCTION UNTIL WORK IS ACCEPTABLE BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES CAUSED BY FAILURE TO MAINTAIN DRAINAGE STRUCTURES IN OPERABLE CONDITION.
- ALL DIMENSIONS SHALL BE VERIFIED WITH THE PLANS (LATEST REVISION) PRIOR TO COMMENCING CONSTRUCTION. NOTIFY THE OWNER IMMEDIATELY IF DISCREPANCIES ARE DISCOVERED. THE CONTRACTOR SHALL HAVE A SET OF APPROVED PLANS AVAILABLE AT THE SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY GOVERNING AGENCY INSPECTORS.
- CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FOR THIS PROJECT FROM ALL APPLICABLE GOVERNMENTAL AGENCIES (NOT SUPPLIED BY OWNER)
- ANY PERMITS WHICH MUST BE OBTAINED SHALL BE THE CONTRACTORS RESPONSIBILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS (NOT SUPPLIED BY OWNER)
- ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES AND THE LATEST APPLICABLE CODES AND STANDARDS.
- THE CONTRACTOR SHALL NOTIFY THE APPLICABLE JURISDICTIONAL (STATE, COUNTY, OR CITY) ENGINEER 24 HOURS PRIOR TO BEGINNING OF CONSTRUCTION.
- CONTRACTOR RESPONSIBLE FOR CLOSING AND FILING ALL PERMITS ASSOCIATED WITH THE SITE.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE EQUIPMENT AND TOWER AREAS.
- ALL EXISTING AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO MATCH PRECONSTRUCTION CONDITIONS.
- THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITIES COMMENCING.

THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF T-MOBILE NORTHEAST LLC. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.

<p>T-Mobile</p> <p>35 GRIFFIN ROAD BLOOMFIELD, CT 06002 OFFICE: (860)-692-7100</p> <p>ALL-POINTS TECHNOLOGY CORPORATION, P.C.</p> <p>3 SADDLEBROOK DRIVE KILLINGWORTH, CT 06419 PHONE: (860)-663-1697 FAX: (860)-663-0935</p> 	<p>T-MOBILE SITE NUMBER: CTNL804B</p> <p>APT FILING NUMBER: CT-255T-370</p>	<p>DEVELOPMENT & MANAGEMENT DOCUMENTS</p> <p>AMTRAK OLD LYME 5 387 SHORE ROAD OLD LYME, CT 06371-1858</p>	<p>NOTES & SPECIFICATIONS</p>
	<p>DESIGN TYPE:</p> <p>RAW LAND</p>	<p>APT FILING NUMBER: CT-255T-370</p> <p>APT DRAWING NUMBER: CTNL804B</p> <p>DRAWN BY: RCB</p> <p>CHECKED BY: SMC</p> <p>SCALE: AS NOTED</p> <p>DATE: 02/09/11</p>	
<p>REVISIONS:</p> <p>REV. 0: 02/14/11: FOR REVIEW: SMC</p> <p>REV. 1: 03/16/11: FOR CSC: SMC</p> <p>REV. 2:</p> <p>REV. 3:</p> <p>REV. 4:</p>	<p>SHEET NUMBER:</p> <p>N-1</p>		

POLE SPECIFICATIONS	
POLE HEIGHT	79.00 FEET
TAPER	.2170 IN/FT
POLE SHAPE	18 SIDED POLYGON
ORIENTATION	FLAT-FLAT

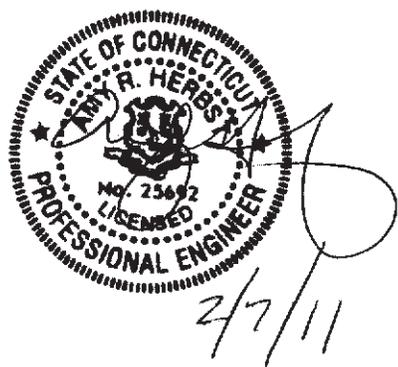
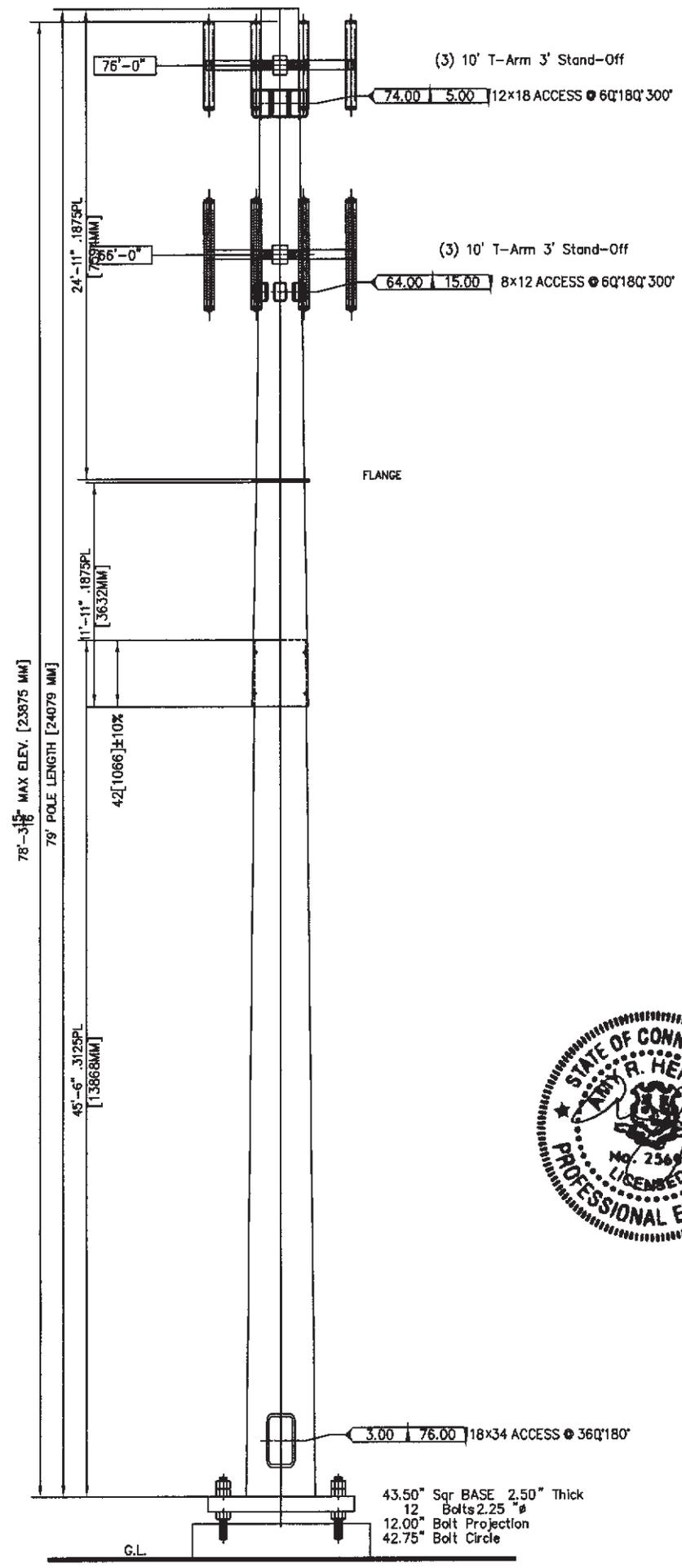
Lev	Qty	Elev ft	Future	DESCRIPTION	APPURTENANCE / ANTENNA
1	3	76.00	F	10'	T-Arm 3' Stand-Off
9	76.00	F			APX16DWV-16DWV-S-E-ACU
6	76.00	F			TMA
2	3	66.00	F	10'	T-Arm 3' Stand-Off
6	66.00	F			BXA-185063/12CF
6	66.00	F			LPA-80063/6CF

Load Case DESCRIPTION	Wind (mph)	OLF Vert	Rad. Ice	Factors Gust	Wind (psf)
1) Max Wind	120.0	1.00	.50	1.69	.55 62.3
2) Max Wind Load x.75	103.9	1.00		1.69	.65 46.7
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)	Disp DEFL (ft)	Top SWAY (deg)
1) Max Wind	14.4	21.0	1227	3.0	3.69
2) Max Wind Load x.75	11.8	14.6	842	2.0	2.52
3) Everyday Operating	11.7	3.4	195	.5	.58

Sec	LENGTH (ft)	Flat-Flat TOP#	Flat-Flat BOT#	THICK (in)	WEIGHT (lbs)	STEEL SPEC	FINISH
1	25.00	20.00	25.42	.1875	1600	A572-65	Galv
2	12.00	25.42	28.03	.1875	900	A572-65	Galv
3	45.50	26.89	36.77	.3125	6400	A572-65	Galv
TOTAL					8900		
ABolt Cluster	Bolt#	Hole#			WEIGHT (lbs)	STEEL SPEC	FINISH
AB	84.00	2.25	2.625		1700	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

CTNL804B, CT

80.00 MONOPOLE

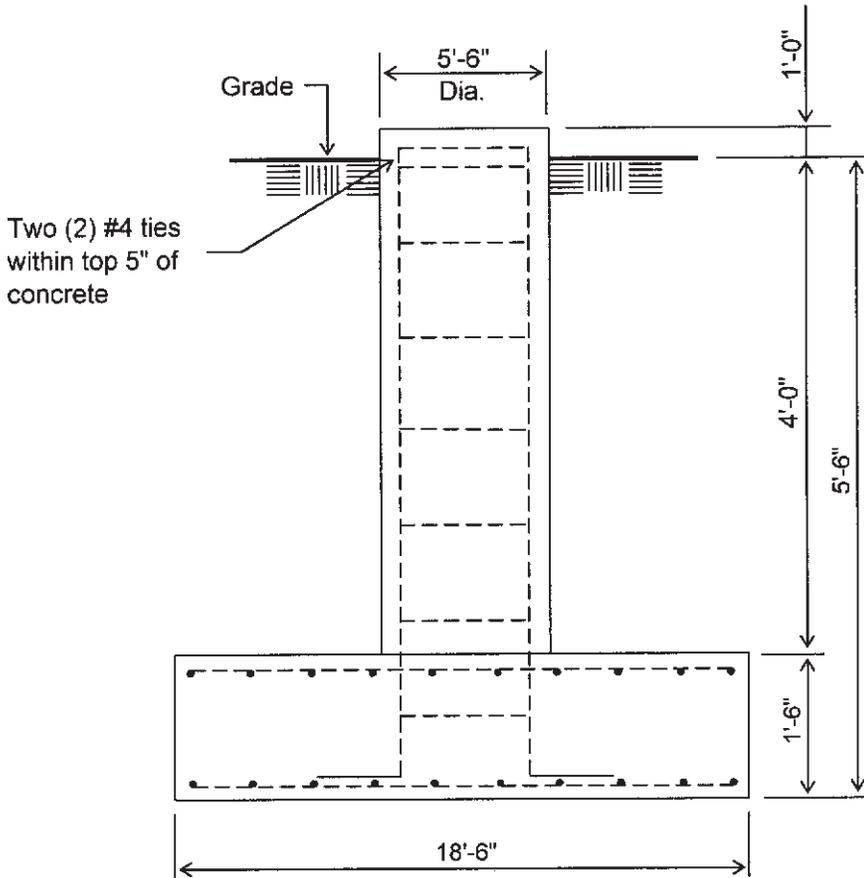
Sabre
Towers & Poles

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40204		SIZE	DRAWING NO.	REV
DATE	04Feb11	A	40204-PE	-
DRAWN BY	-	REFERENCE DRAWING	SCALE	PAGE
CHECKED BY	TRJ		N.T.S.	1

Customer: T-MOBILE
Site: CTNL804B, CT

80' Monopole at
 120 mph Wind + 0.5 in. Ice (concurrent) 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. J2105225, dated: 11/11/10
- 6). See the geotechnical report for compaction requirements, if specified.

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

Rebar Schedule per Pad and Pier	
Pier	(30) #7 vertical rebar w/hooks at bottom w/#4 ties, two within top 5" of top of pier then 12" C/C
Pad	(20) #8 horizontal rebar evenly spaced each way top and bottom (80 Total)



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February 7, 2011

Mr. Brian Paul
T-Mobile
100 Filley St.
Bloomfield, CT 06002-1853

RE: Proposed 80' Sabre Monopole at #CTNL804B, CT (Sabre #40204)

Dear Mr. Paul,

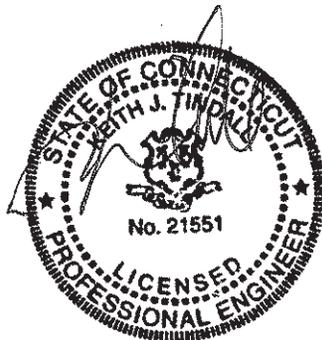
The above referenced monopole has been designed for a Basic Wind Speed of 120 mph concurrent with 1/2" ice, in accordance with ANSI/TIA/EIA 222-F "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures".

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 55' 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 25 feet.

Sincerely,

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



2/7/11

Guyed Towers

Self-Supporting Towers

Monopoles

Concealment Structures

Turnkey Installations

Tower Modifications

