



# WIRELESS COMMUNICATIONS FACILITY

SITE NAME: HAMDEN 8 CT

208 KIRK RD.  
SITE ACCESS OFF COUNTRY CLUB DR.  
HAMDEN, CT 06514

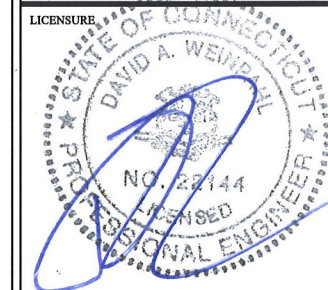
Cellco Partnership  
d/b/a Verizon Wireless



WIRELESS COMMUNICATIONS FACILITY  
99 EAST RIVER DRIVE  
EAST HARTFORD, CT 06108

On Air Engineering, LLC

88 Foundry Pond Road  
Cold Spring, NY 10516  
onair@optonline.net  
201-456-4624



DAVID WEINPAHL, P.E.  
CT LIC. NO. 22144

NO.: DATE: SUBMISSIONS

NO.	DATE	SUBMISSIONS
0	11.11.16	REVIEW SET
1	02.22.17	CSC FILING

DRAWN BY:	CHECKED BY:
MF	DW

SITE NAME:  
**HAMDEN 8 CT**

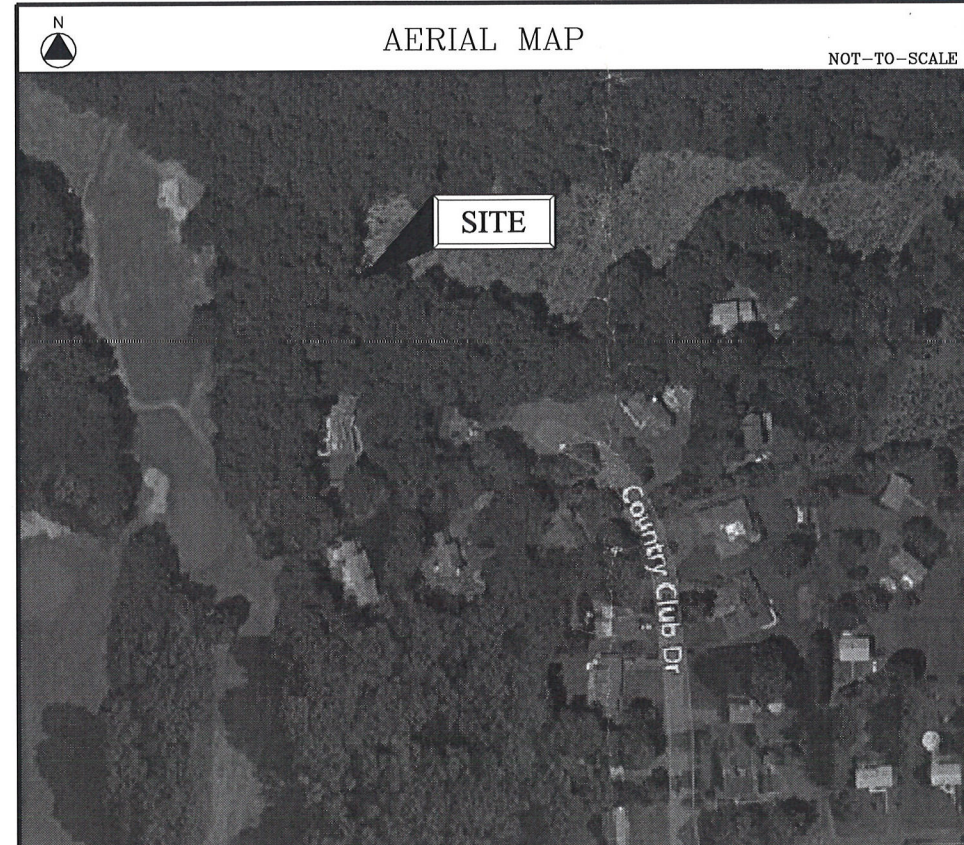
PROJECT INFORMATION:  
**208 KIRK RD.  
HAMDEN, CT 06514**

DRAWING TITLE:  
**TITLE SHEET**

SHEET NUMBER:  
**T-1**

SITE DIRECTIONS	
<b>FROM:</b> 99 EAST RIVER DRIVE EAST HARTFORD, CONNECTICUT	<b>TO:</b> 208 KIRK RD. HAMDEN, CONNECTICUT
<ul style="list-style-type: none"> <li>- DEPART E RIVER DR TOWARD HARTLAND ST</li> <li>- TAKE RAMP RIGHT FOR US-5 SOUTH/CT-15 SOUTH TOWARDS NEW HAVEN</li> <li>- TAKE RAMP RIGHT FOR I-91 SOUTH</li> <li>- AT EXIT 17, TAKE RAMP RIGHT FOR CT-15 SOUTH TOWARD E. MAIN ST/W. CROSS PKWY.</li> <li>- AT EXIT 62, TAKE RAMP RIGHT FOR WHITNEY AVE TOWARD HAMDEN</li> <li>- BEAR RIGHT ONTO WHITNEY AVE</li> <li>- KEEP STRAIGHT ONTO CT-10/WHITNEY AVE</li> <li>- TURN LEFT ONTO SCHOOL ST</li> <li>- ROAD NAME CHANGES TO HAMDEN HILLS DR</li> <li>- ROAD NAME CHANGES TO SHERMAN LN</li> <li>- KEEP STRAIGHT ONTO SHERMAN AVE</li> <li>- TURN RIGHT ONTO KIRK RD</li> <li>- TURN LEFT ONTO BEAR PATH RD</li> <li>- TURN RIGHT ONTO COUNTRY CLUB DR</li> <li>- ACCESS TO REAR OF 208 KIRK RD PARCEL IS AT THE END OF THE CUL-DE-SAC OF COUNTRY CLUB DR</li> </ul>	

PROJECT DESCRIPTION
<ul style="list-style-type: none"> <li>- INSTALLATION OF A 160 FT. STEEL MONOPOLE TOWER DESIGNED TO SUPPORT A MINIMUM OF (4) TELECOMMUNICATION CARRIER ANTENNAS</li> <li>- INSTALLATION OF A 50' x 55' FENCED COMPOUND LOCATED ON THE WEST PORTION OF THE SUBJECT LOT</li> <li>- INSTALLATION OF CELLCO PARTNERSHIP EQUIPMENT CABINETS INCLUDING A DIESEL FUELED GENERATOR ON A RAISED STEEL EQUIPMENT PLATFORM</li> <li>- INSTALLATION OF (12) CELLCO PARTNERSHIP PANEL ANTENNAS MOUNTED AT A CENTERLINE ELEVATION OF 160 FT. WITH ACCESSORY EQUIPMENT (AS REQUIRED)</li> <li>- POWER AND TELCO UTILITIES SHALL BE ROUTED UNDERGROUND FROM EXISTING DEMARCS TO THE PROPOSED UTILITY BACKBOARD AND EQUIPMENT WITHIN THE COMPOUND. FINAL DEMARC LOCATIONS AND ROUTING SHALL BE VERIFIED/DETERMINED BY THE UTILITY COMPANIES.</li> <li>- FINAL DESIGN FOR THE TOWER, ANTENNA MOUNTS AND EQUIPMENT PLATFORM SHALL BE INCLUDED IN THE D&amp;M PLANS.</li> <li>- THE PROPOSED FACILITY SHALL BE DESIGNED IN ACCORDANCE WITH THE 2016 CT BUILDING CODE INCLUDING, BUT NOT LIMITED TO, THE REFERENCED TIA-222-G STANDARD</li> <li>- THERE WILL BE NO LIGHTING UNLESS REQUIRED BY THE FCC OR THE FAA.</li> </ul>



AERIAL MAP NOT-TO-SCALE

PROJECT SUMMARY	
SITE NAME:	HAMDEN 8 CT
SITE ADDRESS:	208 KIRK RD. HAMDEN, CT 06514
PROPERTY OWNER:	JOSEPH VIGNOLA & DENISE COURTMANCHE VIGNOLA 208 KIRK RD. HAMDEN, CT 06518
PARCEL M-B-L:	2826-024-00-0000
TOWER COORDINATES:	41° 23' 43.332" N 72° 55' 52.213" W GROUND ELEVATION 296.5 FT. ± A.M.S.L.
APPLICANT:	CELLCO PARTNERSHIP d.b.a. VERIZON WIRELESS 99 EAST RIVER DR., 9TH FL. EAST HARTFORD, CT 06108
VERIZON WIRELESS CONTACTS:	MIKE HUMPHREYS - CONST. (860) 560-6410 SHELBY DOCKER - SAC (860) 549-3739 JAIME LAREDO - RF (860) 308-4534
LEGAL/REGULATORY COUNSEL:	KENNETH C. BALDWIN, ESQ. ROBINSON & COLE, LLP (860) 275-8345

DRAWING SCHEDULE	
SHEET NO.	SHEET DESCRIPTION
T-1	TITLE SHEET
C-1	SITE LAYOUT /ABUTTERS MAP
C-2	PARTIAL SITE PLAN
C-3	COMPOUND PLAN, SOUTH ELEVATION & ANTENNA PLAN
C-4	PROFILE AND SECTION
C-5	SEDIMENT AND EROSION CONTROL NOTES
C-6	SEDIMENT AND EROSION CONTROL DETAILS
C-7	SITE DETAILS
C-8	DETAILS

Cellco Partnership  
d/b/a Verizon Wireless

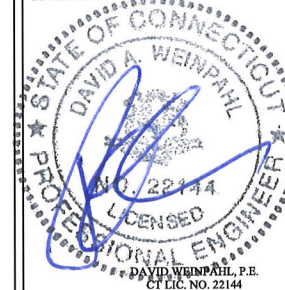


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EAST HARTFORD, CT 06108

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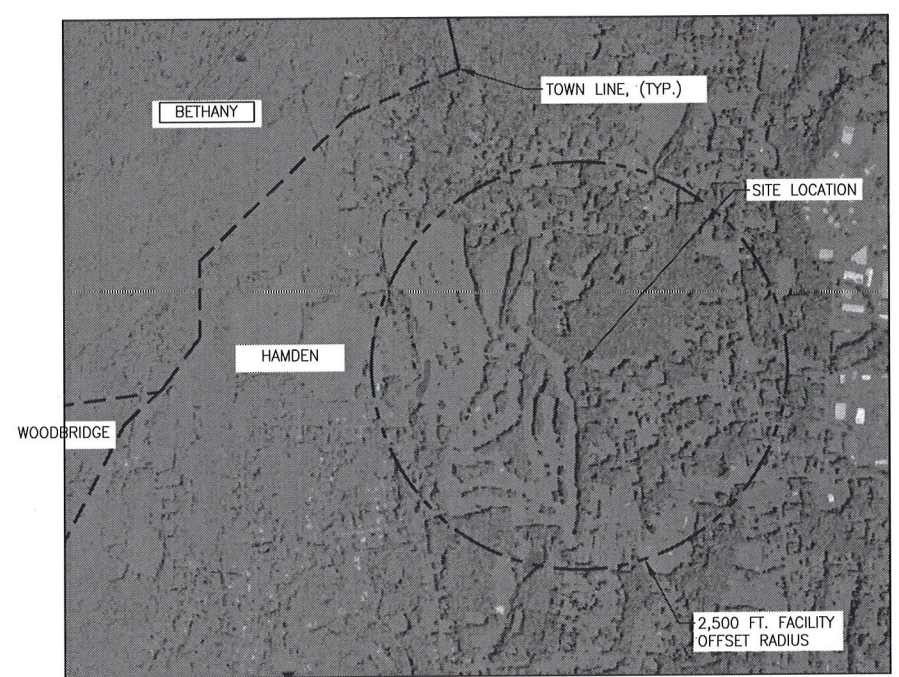
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HAMDEN, CT 06514**

DRAWING TITLE:  
**SITE LAYOUT/  
ABUTTERS MAP**

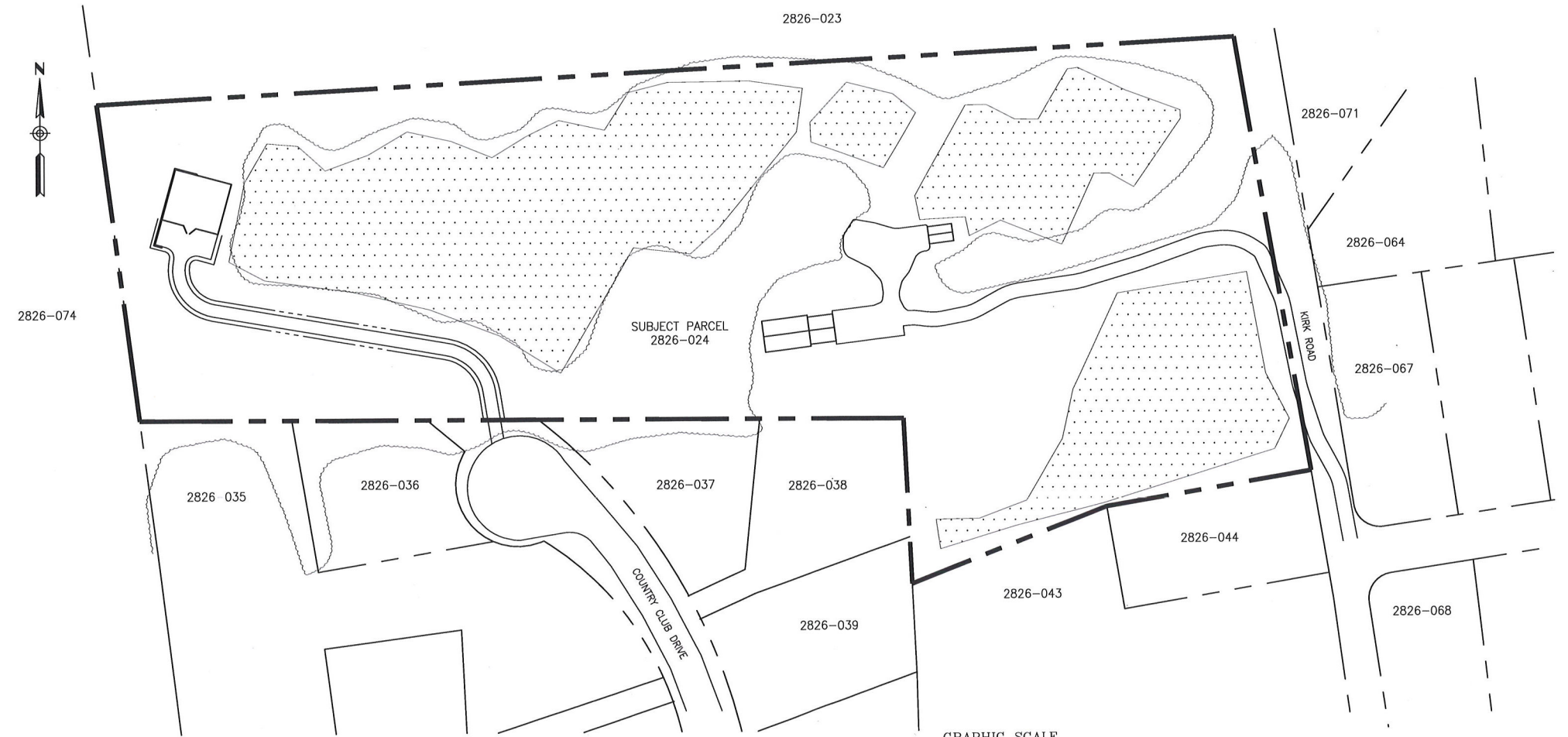
SHEET NUMBER:  
**C-1**

ABUTTERS LIST FROM PARCEL 2826-024-00-0000			
M - B - L	OWNER NAME	OWNER MAILING ADDRESS	PROPERTY ADDRESS
2826-023-00-0000	JOHN H & JAMES KENNEDY & MARGARET HRABCHAK	53 CREELAND AVE, MILFORD, CT 06460	1105 PARADISE AVE
2826-071-00-0000	HARTOG MARTIN B & BENNETT THERESE	277 MAGEE DR, HAMDEN, CT 06514	277 MAGEE DR
2826-064-00-0000	COPPOLA LOUIS C+SHERRIE L+SURV	280 MAGEE DR, HAMDEN, CT 06514	280 MAGEE DR
2826-067-00-0000	JOLLES JOEL M & ANNETTA K & SURV	51 FUNARO RD, HAMDEN, CT 06514	51 FUNARO RD
2826-068-00-0000	IATOMASI ANTONIO & ELEANORA & SURV	50 FUNARO RD, HAMDEN, CT 06514	50 FUNARO RD
2826-044-00-0000	KLATZKIE JEFFREY TRUSTEE	1953 WHITNEY AVE APT C2, NORTH HAVEN, CT 06473	178 KIRK RD
2826-043-00-0000	LITTLE MICHAEL F	170 KIRK RD, HAMDEN, CT 06514	170 KIRK RD
2826-039-00-0000	CIARAMELLA ROSINA	27 COUNTRY CLUB DR, HAMDEN, CT 06514	27 COUNTRY CLUB DR
2826-038-00-0000	BENITEZ SUZETTE A	35 COUNTRY CLUB DR, HAMDEN, CT 06514	35 COUNTRY CLUB DR
2826-037-00-0000	CORNACCHIA ANTHONY S JR & MARIA A & SURV	41 COUNTRY CLUB DR, HAMDEN, CT 06514	41 COUNTRY CLUB DR
2826-036-00-0000	PETERKIN MARC A & TERESA L	50 COUNTRY CLUB DR, HAMDEN, CT 06514	50 COUNTRY CLUB DR
2826-035-00-0000	SORRENTINO PATRICIA B	46 COUNTRY CLUB DR, HAMDEN, CT 06514	46 COUNTRY CLUB DR
2826-074-00-0000	HAMDEN TOWN OF	2750 DIXWELL AVE, HAMDEN, CT 06518	310 WEST SHEPARD AVE

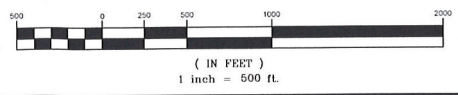
NOTES TO ABUTTERS MAP & OWNERS LIST:  
1. ALL INFORMATION TAKEN FROM TOWN OF HAMDEN  
ONLINE "GIS" DATABASE, NOVEMBER 15, 2016.



**2**  
**C-1** MUNICIPALITY NOTIFICATION MAP  
Scale: N.T.S



**1**  
**C-1** SITE LAYOUT/ABUTTERS MAP  
Scale: 1" = 500'-0"



**GENERAL NOTES**

**CONSTRUCTION NOTES**

1. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL MEASUREMENTS. ANY VARIATIONS FROM CONDITIONS SHOWN ARE TO BE BROUGHT TO THE ATTENTION OF THE DESIGN PROFESSIONAL AND/OR MCA PRIOR TO BIDDING FOR RESOLUTION IN ACCORDANCE WITH CONTRACT DOCUMENT REQUIREMENTS.
2. ALL REQUIRED PERMITS ARE TO BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE.
3. ALL DIMENSIONS ARE TO THE OUTSIDE FACE OF THE NOTED ITEM.
4. WORK LIMITS SHALL BE AS NOTED. ALL ITEMS DISTURBED BY ANY AND ALL CONSTRUCTION ACTIVITIES SHALL BE RESTORED SUBSTANTIALLY TO THE CONDITION THEY EXISTED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, TO THE OWNERS APPROVAL. THE CONTRACTOR AT A MINIMUM SHALL MAINTAIN ALL SEDIMENT AND EROSION CONTROL DEVICES AS DIRECTED, AS NECESSARY, AND IN ACCORDANCE WITH CONTRACT REQUIREMENTS, AND SHALL CHECK ALL SYSTEMS ON A DAILY BASIS TO ENSURE THE PREVENTION OF SEDIMENT TRANSPORT AND THE CONTROL OF EROSION.
5. THE LOCATIONS OF SITE UTILITIES ARE UNKNOWN. PRIOR TO COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL PLACE A "CALL BEFORE YOU DIG" (CBYD) REQUEST (PHONE: 1-800-922-4455). THE PROTECTION OF EXISTING UTILITIES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AT HIS EXPENSE.
6. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL ACTIVITY ON THE SUBJECT PROPERTY.
7. ALL FUEL, OIL PAINTS, OR OTHER HAZARDOUS MATERIALS STORED ON-SITE DURING THE CONSTRUCTION PERIOD SHOULD BE IN A SECONDARY CONTAINER AND REMOVED TO A LOCKED INDOOR AREA WITH AN IMPERVIOUS FLOOR WHEN THEY ARE NOT BEING USED. BULK FUEL FOR CONSTRUCTION EQUIPMENT SHALL NOT BE STORED ON-SITE. IF THIS BECOMES NECESSARY, FUEL SHOULD BE LOCATED WITHIN A SECONDARY CONTAINMENT SYSTEM TO PREVENT LEAKS FROM ENTERING THE ENVIRONMENT, SHELTERED FROM PRECIPITATION, AND IN A SECURED AREA. A SUPPLY OF ABSORBENT SPILL RESPONSE MATERIAL SHOULD BE AVAILABLE, ESPECIALLY DURING REFUELING, TO CLEAN UP ANY SPILLS OF HAZARDOUS MATERIAL SUCH AS GASOLINE OR OIL. IF SPILL OCCURS CALL 24-HOURS A DAY AT (860) 424-3339 TO ALERT SPILL RESPONSE TEAM.
8. THE CONTRACTOR MUST MAINTAIN (REPAIR/REPLACE WHEN NECESSARY) THE SILTATION CONTROL DEVICES, AS SHOWN ON THIS SHEET AND DETAILS SHEETS, UNTIL ALL INSTALLATION IS COMPLETED AND ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
9. INDICATED UNDERGROUND UTILITIES ARE BASED ON INDICATED MAP REFERENCES. THE LOCATIONS ARE CONSIDERED APPROXIMATE AND ALL UTILITIES MAY NOT BE SHOWN. PRIOR TO ANY CONSTRUCTION THE CONTRACTOR SHALL CALL 1-800-922-4455 AND HAVE ALL UTILITIES MARKED ON THE GROUND.
10. ALL MATERIAL EXCAVATION, FILLING SHALL BE IN CONFORMANCE WITH APPROPRIATE SECTIONS OF THE TOWN OF HAMDEN REGULATIONS AND OSHA WORKPLACE SAFETY REGULATIONS.
11. CONTRACTOR SHALL USE WORK METHODS APPROVED BY OSHA FOR ALL TRENCHING AND EXCAVATION.
12. NO GRADED EARTH SLOPE SHALL EXCEED A 3H:1V SLOPE.
13. PROVIDE POSITIVE DRAINAGE OF FINISHED GRADE AT ALL DISTURBED AREAS AS INTENDED BY THESE PLANS.
14. ALL SITE WORK SHALL BE IN CONFORMANCE WITH CONN. D.O.T. FORM 817 OR LATEST EDITION AS A MINIMUM ACCEPTABLE STANDARD.

**SURVEY NOTES**

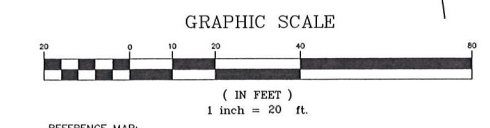
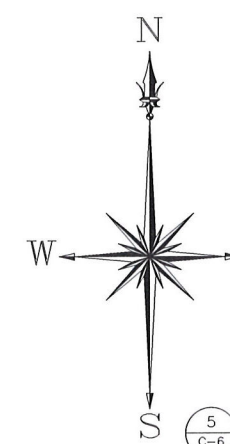
THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-300B-1 THRU 20-300B-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES - "MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ENDORSED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPT. 26, 1996. THE LIMITED TOPOGRAPHIC SURVEY PORTION OF THIS PLAN CONFORMS TO A VERTICAL ACCURACY OF CLASS T-2 AND IS INTENDED TO BE USED TO DEPICT A PROPOSED TELECOMMUNICATIONS SITE.

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

NORTH ORIENTATION AND COORDINATES REFER TO CONNECTICUT GRID SYSTEM NAD 83. ELEVATIONS BASED ON NGVD 1929 DATUM.  
 PARCEL OWNER OF RECORD: JOSEPH A. VIGNOLA & DENISE COURTEMANCHE  
 PARCEL KNOWN AS 1075 PARADISE AVENUE  
 PARCEL AREA= 9.34± ACRES  
 PARCEL IS IN THE RESIDENTIAL ZONING DISTRICT R3.  
 MAP 2826, LOT NO. 24, HAMDEN ASSESSORS MAP  
 PARCEL IS NOT IN A FLOOD ZONE BASED ON THE FLOOD INSURANCE RATE MAP, NEW HAVEN COUNTY, CONNECTICUT, ALL JURISDICTIONS, PANEL 293 OF 635, COMMUNITY MAP NUMBER 0909020293H, MAP EFFECTIVE DATE DECEMBER 17, 2010, BY FEDERAL EMERGENCY MANAGEMENT AGENCY.  
 PARCEL IS SUBJECT TO RIGHTS AND EASEMENTS AS OF RECORD MAY APPEAR.  
 ALL IMPROVEMENTS ARE NOT SHOWN.

**SYMBOLS LEGEND**

---	PROPERTY LINE
- - - -	EASEMENT LINE
.....	EXISTING CONTOUR
.....	PROPOSED CONTOUR
—+—+—+—	CHAIN LINK FENCE
~~~~~	SILT FENCE
	SILT SOCK
—+—+—+—	ROAD CENTERLINE
○	EXISTING TREE LINE
○	EXISTING TREE FARM LINE
○	EXISTING UTILITY POLE
○	IRON PIN
○	METAL POST
○	DECIDUOUS TREE
✕	TREE TO BE DEMOLISHED
▨	BITUMINOUS CONCRETE DRIVEWAY APRON
▨	GEGRID REINFORCED GRAVEL DRIVEWAY
▨	RIP RAP STABILIZED SLOPE



REFERENCE MAP:  
 1. "PROPERTY AND TOPOGRAPHIC PLAN" FOR PROPERTY AT 208 KIRK ROAD, HAMDEN, CONNECTICUT, DATE: 11-11-2016; SCALE: 1"=20'; PREPARED BY MARTINEZ COUCH & ASSOCIATES, LLC

Cellco Partnership  
 d/b/a Verizon Wireless

**verizon**

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 201-456-4624

**MCA**  
 MARTINEZ COUCH & ASSOCIATES, LLC

SKILLED PROFESSIONALS.  
 PRACTICAL SOLUTIONS.

1084 Cromwell Avenue, Suite A-2  
 Rocky Hill, CT 06067  
 Tel: 860-436-4364  
 MartinezCouch.com

LICENSURE

GEORGE M. PENDLETON, P.E.  
 CT LIC. NO. 23507

NO:	DATE:	SUBMISSIONS
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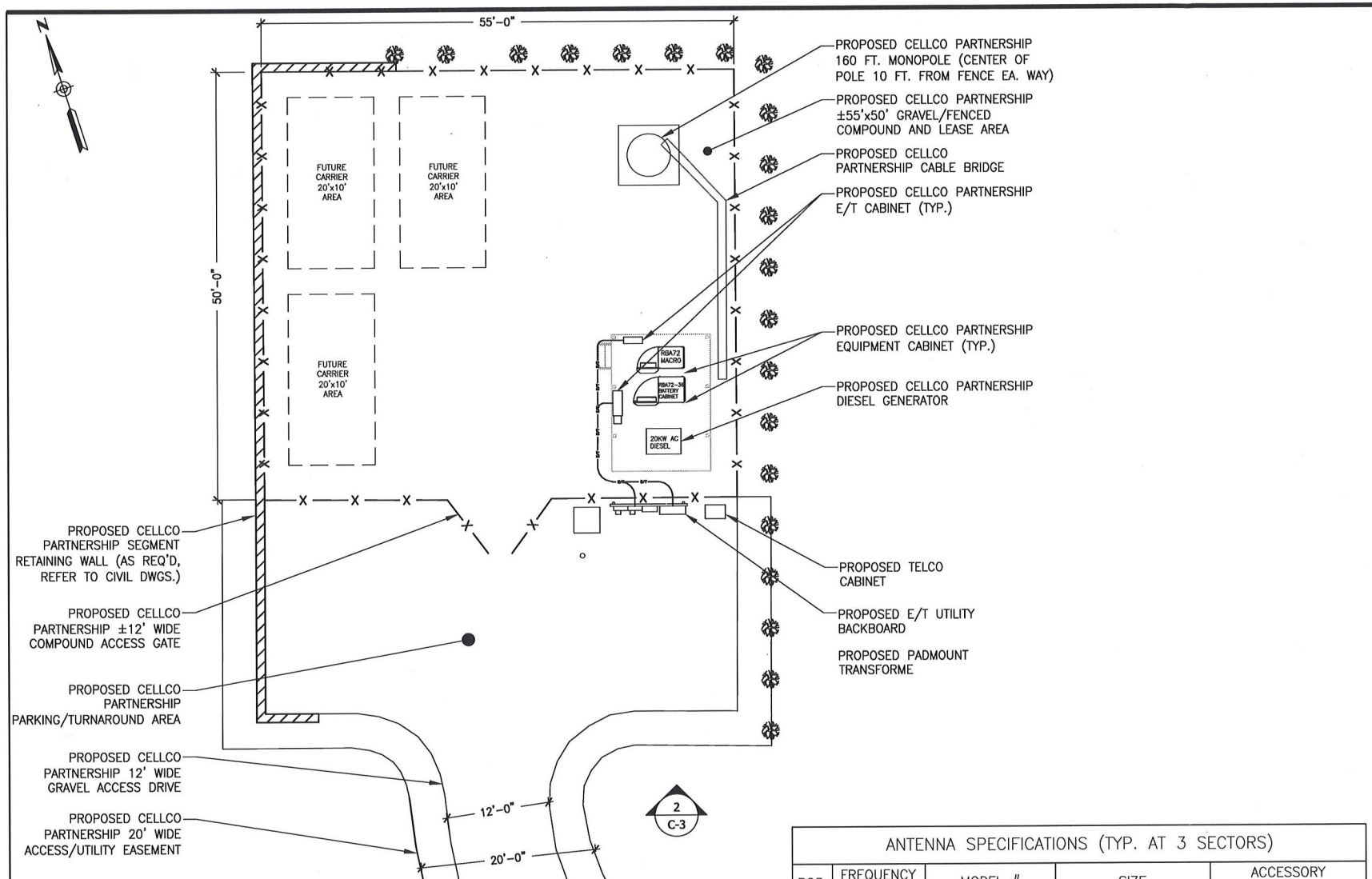
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MBR/FV	GMP

SITE NAME:  
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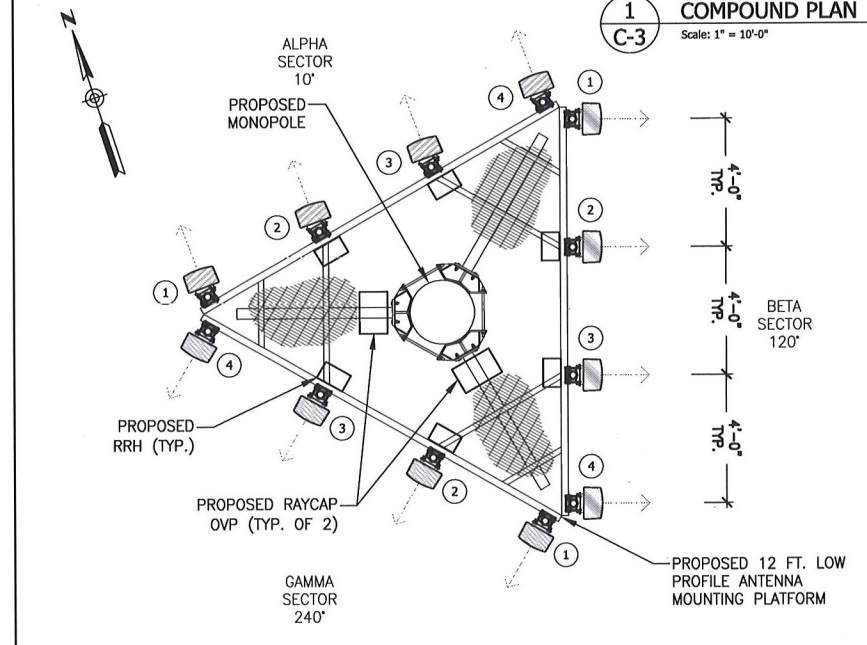
PROJECT INFORMATION:  
 208 KIRK RD.  
 HAMDEN, CT 06514

DRAWING TITLE:  
**PARTIAL SITE PLAN**

SHEET NUMBER:  
**C-2**

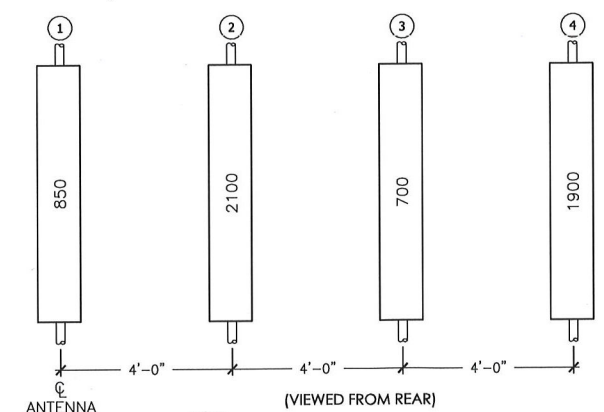


**1 COMPOUND PLAN**  
Scale: 1" = 10'-0"

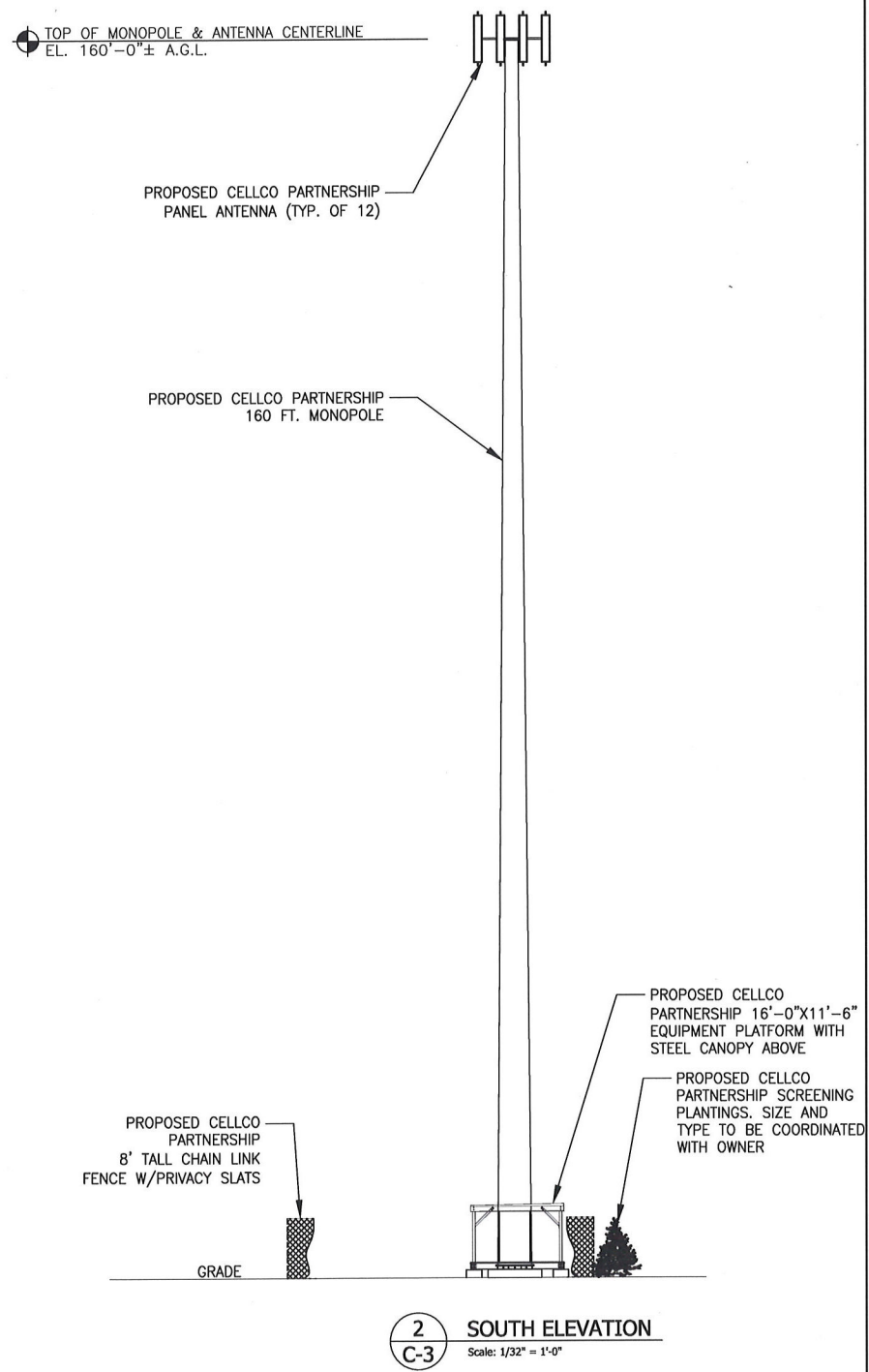


**3 ANTENNA PLAN @ 160 FT. A.G.L.**  
Scale: 3/8" = 1'-0"

ANTENNA SPECIFICATIONS (TYP. AT 3 SECTORS)				
POS.	FREQUENCY BAND	MODEL #	SIZE	ACCESSORY EQUIPMENT
1	850-CELL	SBNHH-1D65B	72.0"Hx11.9Wx7.1"D; 40.6 LBS.	--
2	2100-AWS	SBNHH-1D65B	72.0"Hx11.9Wx7.1"D; 40.6 LBS.	ALU RRH_4x45-AWS
3	700-LTE	SBNHH-1D65B	72.0"Hx11.9Wx7.1"D; 40.6 LBS.	ALU RRH_2x60-700U
4	1900-PCS	SBNHH-1D65B	72.0"Hx11.9Wx7.1"D; 40.6 LBS.	--



**4 TYPICAL ANTENNA ELEVATION**  
Scale: N.T.S.



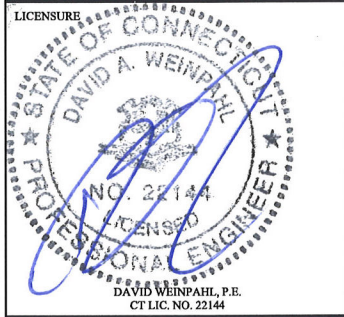
**2 SOUTH ELEVATION**  
Scale: 1/32" = 1'-0"

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d/b/a Verizon Wireless

**verizon**

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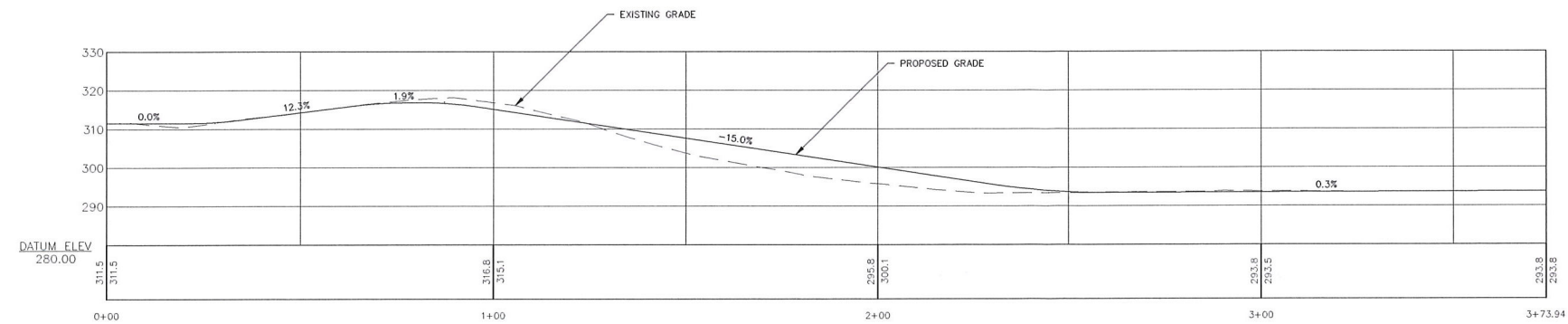
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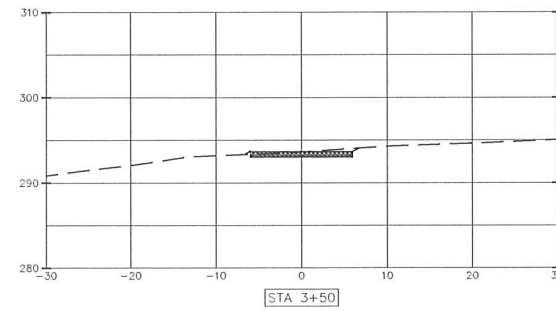
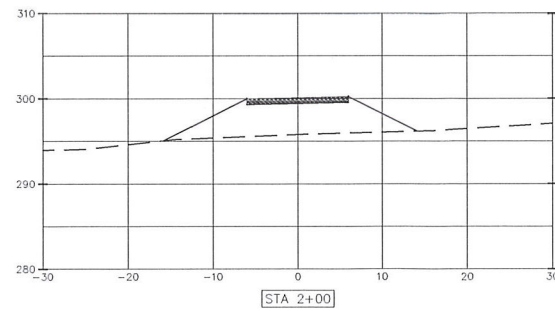
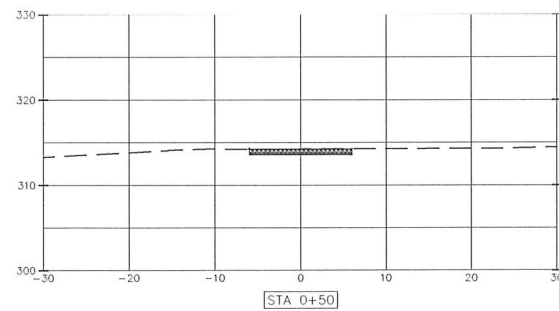
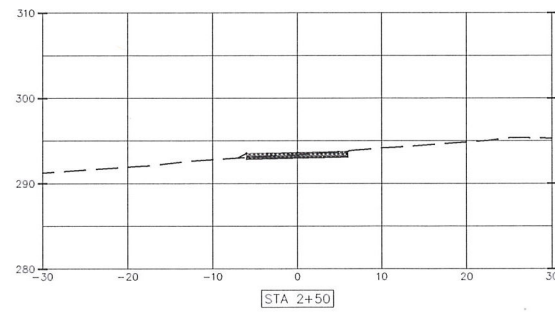
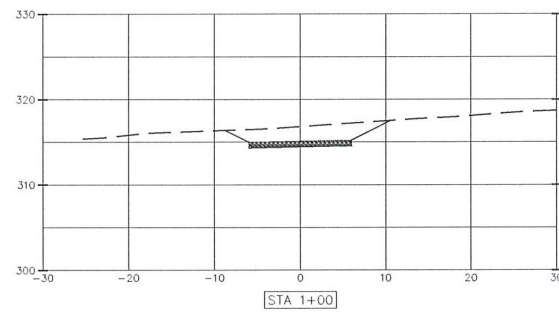
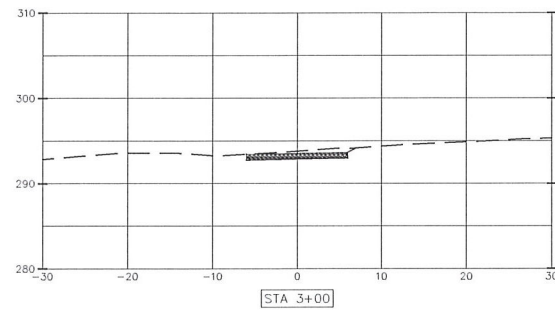
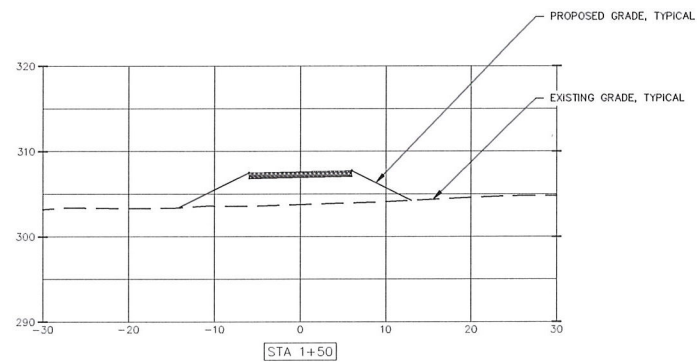
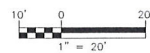
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**COMPOUND PLAN,  
SOUTH ELEVATION &  
ANTENNA PLANS**

SHEET NUMBER:  
**C-3**



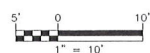
**ACCESS DRIVE PROFILE**

SCALE: 1" = 20'



**CROSS SECTIONS**

SCALE: 1" = 10'



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d/b/a Verizon Wireless



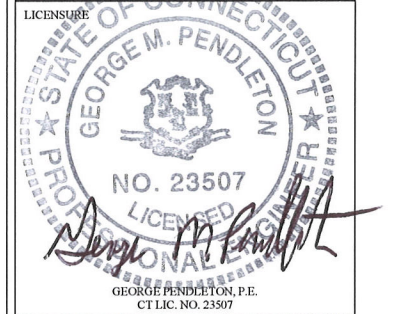
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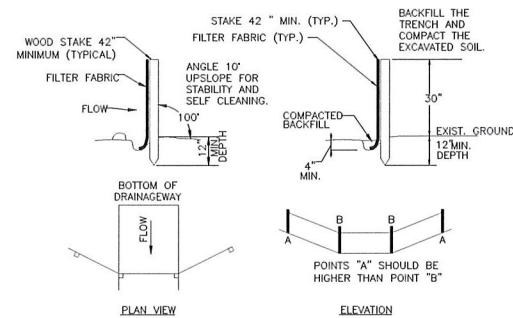
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DRAWING TITLE:  
**PROFILES AND SECTIONS**

SHEET NUMBER:  
**C-4**





- A) MINIMUM LENGTH OF SILT FENCE IS 15 LF.
- B) MAXIMUM POST SPACING IS 10 LF.
- C) JOINTS ONLY AT SUPPORT POST WITH MINIMUM 6" OVERLAP, SECURELY SEALED.
- D) SEDIMENTATION DEPOSITS SHALL BE REMOVED WHEN THEY REACH 1/2 THE HEIGHT OF THE SILT FENCE.
- E) SILT FENCE SHALL NOT BE USED IN A WATER COURSE.
- F) UPON ESTABLISHMENT OF GROUND COVER ON DISTURBED AREAS, AND WHEN DIRECTED BY THE ENGINEER, FENCE WILL BE REMOVED AND ANY SEDIMENTATION WILL BE THINLY SPREAD UPON EXISTING GROUND COVER.

1 SILTATION FENCE DETAILS AND CONSTRUCTION  
C-6 N.T.S.

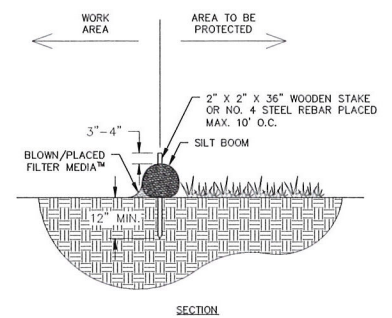
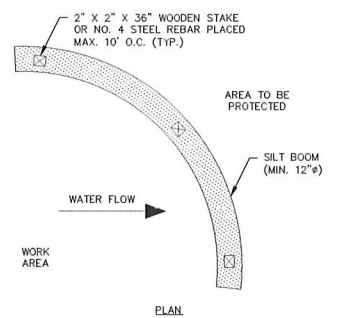
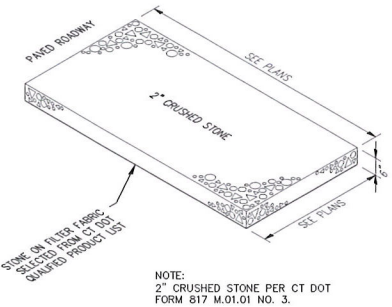
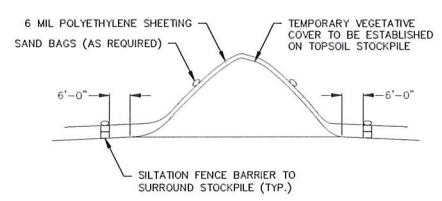


TABLE 1

SILT BOOM DIAMETER	EFFECTIVE HEIGHT	HALF OF EFFECTIVE HEIGHT
12 INCHES	9.5 INCHES	4.8 INCHES
18 INCHES	14.5 INCHES	7.3 INCHES
24 INCHES	19 INCHES	9.5 INCHES

- NOTES:
- CONTRACTOR SHALL MAINTAIN SILT SOCK IN A FUNCTIONAL CONDITION AT ALL TIMES. SILT SOCK SHALL BE ROUTINELY INSPECTED.
  - IF DAMAGED, SILT SOCK SHALL BE REPAIRED OR REPLACED.
  - CONTRACTOR SHALL REMOVE SEDIMENT IN THE BASE OF THE UPSLOPE SIDE OF THE SILT SOCK WHEN ACCUMULATION HAS REACHED 1/2 OF EFFECTIVE HEIGHT, WHICH SHALL BE DETERMINED BASED ON TABLE 1 OR AS DIRECTED BY TOWN OR ENGINEER.
  - SILT SOCK SHALL BE MAINTAINED UNTIL DISTURBED AREA HAS BEEN PERMANENTLY STABILIZED AND CONSTRUCTION ACTIVITY HAS CEASED.

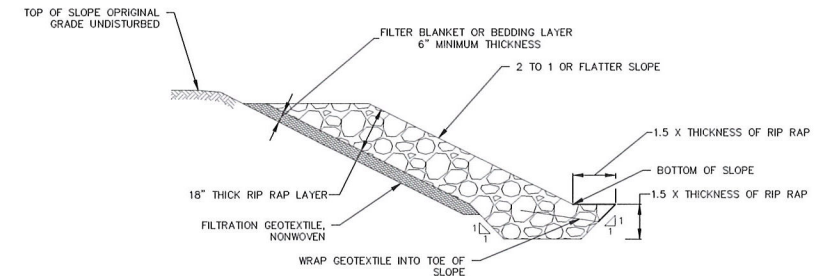
2 TYPICAL SILT SOCK  
C-6 N.T.S.



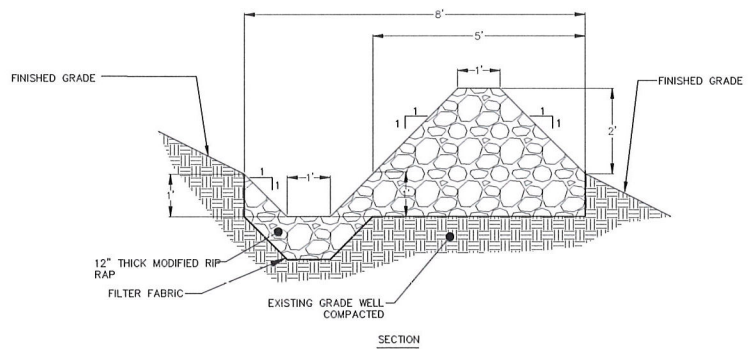
NOTE:  
2" CRUSHED STONE PER CT DOT FORM 817 M.01.01 NO. 3.

3 SOIL STOCKPILE  
C-6 N.T.S.

4 CONSTRUCTION ENTRANCE TRACKPAD  
C-6 N.T.S.



- SUBGRADE PREPARATION**  
PREPARE THE SUBGRADE FOR RIP RAP, BEDDING, FILTER OR GEOTEXTILE TO THE REQUIRED LINES AND GRADES. COMPACT ANY FILL REQUIRED IN THE SUBGRADE IN 12-INCHES LIFTS TO 95% OF STANDARD PROCTOR DENSITY. REMOVE BRUSH, TREES, STUMPS, AND OTHER OBJECTIONABLE MATERIAL.
- FILTER BLANKET OR BEDDING**  
IMMEDIATELY AFTER SLOPE PREPARATION, INSTALL THE FILTER OR BEDDING MATERIALS. SPREAD THE FILTER OR BEDDING MATERIALS IN A UNIFORM LAYER TO THE SPECIFIED DEPTH.
- STONE PLACEMENT**  
IMMEDIATELY AFTER PLACEMENT OF THE FILTER BLANKET, BEDDING, PLACE THE RIPRAP TO ITS FULL COURSE THICKNESS IN ONE OPERATION SO THAT IT PRODUCES A DENSE WELL GRADED MASS OF STONE WITH A MINIMUM OF VOIDS. THE DESIRED DISTRIBUTION OF STONES THROUGHOUT THE MASS MAY BE OBTAINED BY SELECTIVE LOADING AT THE QUARRY, CONTROLLED DUMPING OF SUCCESSIVE LOADS DURING THE FINAL PLACING, OR BY A COMBINATION OF THESE METHODS. DO NOT PLACE RIPRAP IN LAYERS OR USE CHUTES OR SIMILAR METHODS TO DUMP THE RIPRAP WHICH ARE LIKELY TO CAUSE SEGREGATION OF THE VARIOUS STONES.
- TAKE CARE NOT TO DISLODGE THE UNDERLYING MATERIAL WHEN PLACING THE STONES. WHEN PLACING RIPRAP ON A FILTER FABRIC TAKE CARE NOT TO DAMAGE THE FABRIC. IF DAMAGE OCCURS, REMOVE AND REPLACE THE DAMAGED SHEET. FOR LARGE STONE, 12 INCHES OR GREATER, USE A 6 INCH LAYER OF FILTER OR BEDDING MATERIAL TO PREVENT DAMAGE TO THE MATERIAL FROM PUNCTURE.
- ENSURE THE FINISHED SLOPE IS FREE OF POCKETS OF SMALL STONES OR CLUSTERS OF LARGE STONES. HAND PLACING MAY BE NECESSARY TO ACHIEVE THE REQUIRED GRADES AND A GOOD DISTRIBUTION OF STONE SIZES. ENSURE THE FINAL THICKNESS OF THE RIPRAP BLANKET IS WITHIN PLUS OR MINUS 0.25 OF THE SPECIFIED THICKNESS.
- MAINTENANCE**  
INSPECTED PERIODICALLY TO DETERMINE IF HIGH FLOWS HAVE CAUSED SCOUR BENEATH THE RIPRAP OR FILTER BLANKET MATERIALS. REMOVE TREES THAT DEVELOP IN THE PROTECTED SLOPES.



5 RIP RAP LEVEL SPREADER/ ENERGY DISSIPATOR DETAIL  
C-6 N.T.S.

6 RIP RAP SLOPE STABILIZATION  
C-6 N.T.S.

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STATE OF CONNECTICUT  
GEORGE M. PENDLETON  
NO. 23507  
LICENSED PROFESSIONAL ENGINEER  
GEORGE M. PENDLETON, P.E.  
CT LIC. NO. 23507

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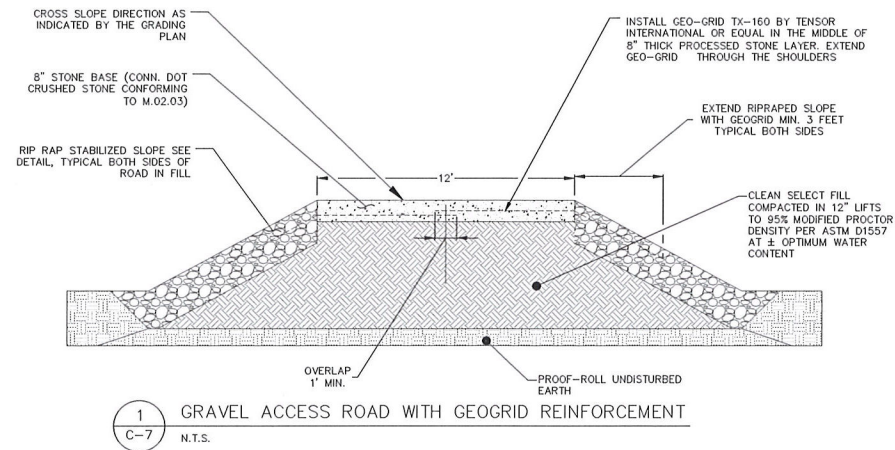
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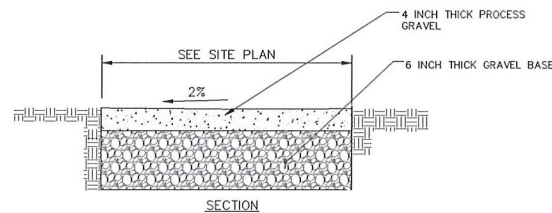
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**SEDIMENT AND EROSION  
CONTROL DETAILS**

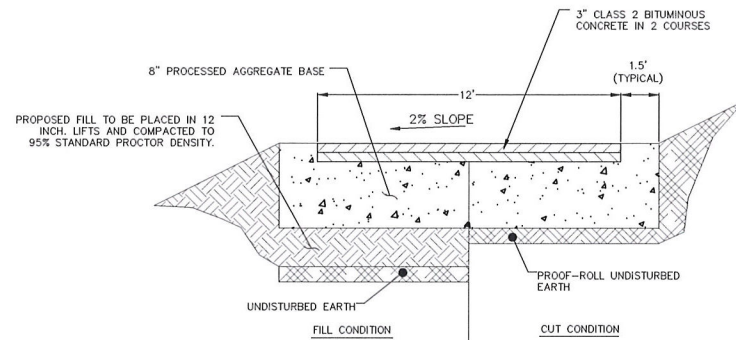
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**C-6**



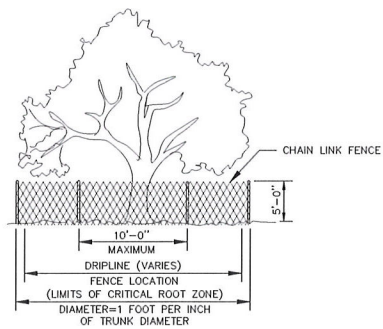
1 GRAVEL ACCESS ROAD WITH GEOGRID REINFORCEMENT  
C-7 N.T.S.



2 GRAVEL PARKING AREA AND DRIVEWAY  
C-7 N.T.S.



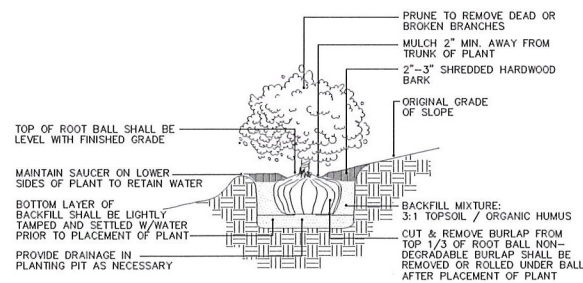
3 BITUMINOUS CONCRETE DRIVEWAY  
C-7 N.T.S.



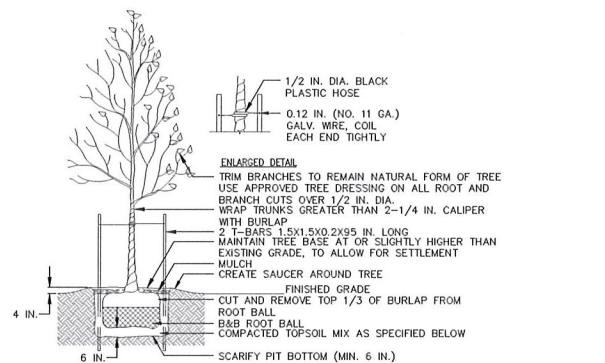
**TREE PROTECTION NOTES:**

- BEFORE BEGINNING ANY SITE WORK OR CONSTRUCTION, TREE PROTECTION FENCING SHALL BE INSTALLED AROUND TREES INDICATED TO REMAIN ON THIS PLAN, FOLLOWING THE INSTALLATION OF TREE PROTECTION FENCING AND FOR THE ENTIRE CONSTRUCTION PERIOD THE FOLLOWING SHALL APPLY:
  - NO MATERIALS, VEHICLES OR EQUIPMENT MAY BE STORED OR STOCKPILED WITHIN THE AREAS ENCLOSED BY TREE PROTECTION FENCING.
  - NO VEHICLES OR EQUIPMENT MAY BE DRIVEN, OPERATED OR PARKED WITHIN AREAS ENCLOSED BY TREE PROTECTION.
  - AREAS ENCLOSED BY TREE PROTECTION CAN NOT BE USED AS ROUTES FOR SITE TRAFFIC.
  - FENCING SHALL BE RESECURED AS NECESSARY AND MAINTAINED TAUT. FENCING SHALL BE REPAIRED OR REPLACED WHEN DAMAGED AT THE CONTRACTOR'S EXPENSE.
- IN SPECIAL CASES WHERE CONSTRUCTION OPERATIONS ABSOLUTELY REQUIRE SOME TEMPORARY ENCROACHMENT INTO TREE PROTECTION AREAS, THE CONTRACTOR SHALL PRESENT A WORK PLAN FOR TEMPORARY ENCROACHMENT FOR THE OWNER'S APPROVAL.
- ALL EXCAVATION OR TRENCHING WITHIN THE AREAS OF EXISTING TREE ROOTS SHALL BE PERFORMED BY HAND.
  - ROOTS IN TRENCH SHALL BE CUT SMOOTH AND CLEAN USING SHARP TOOLS. NO RIPPING OF TREE ROOTS BY MACHINES IS PERMITTED.
  - NO JAGGED EDGES OF ROOTS SHALL BE PERMITTED.
  - SIDES OF EXCAVATIONS SHALL BE CLEAN AND STRAIGHT.
  - IMMEDIATELY FOLLOWING TRENCHING OR EXCAVATION OPERATIONS, AREAS AT TREE ROOTS SHALL BE BACKFILLED.
  - ROOTS SHALL NOT BE LEFT EXPOSED OVERNIGHT.
  - BACKFILL SHALL BE A MIX OF 50% TOPSOIL AND 50% CLEAN SAND.
  - BACKFILL SHALL BE HAND COMPACTED IN PLACE TO FILL ALL VOIDS.
- EXTREME CARE SHALL BE TAKEN TO AVOID ANY DAMAGE TO TRUNKS, BRANCHES AND ROOTS. ANY DAMAGE CAUSED TO TREES SHALL BE IMMEDIATELY REMEDIATED BY THE CONTRACTOR.
  - REMEDIAL WORK MAY INCLUDE PRUNING, WOUND TREATMENT, CABLING OR ADDITIONAL MEASURES AS DETERMINED BY THE OWNER OR THEIR AGENT.
- THE CONTRACTOR SHALL REVIEW ALL PLANNED CONSTRUCTION OPERATIONS THAT MAY RESULT IN TREE DAMAGE FOR REVIEW AND APPROVAL BY THE OWNER OR THEIR AGENT.
  - SPECIAL ATTENTION SHALL BE MADE TO THE PATH OF PLACING CONSTRUCTION MATERIAL ON SITE BY CRANE.
  - THE CONTRACTOR SHALL PRESENT A WORK PLAN AND PROPOSED TREE PROTECTION MEASURES TO MINIMIZE DAMAGE TO TREES.

4 TREE PROTECTION  
C-7 N.T.S.



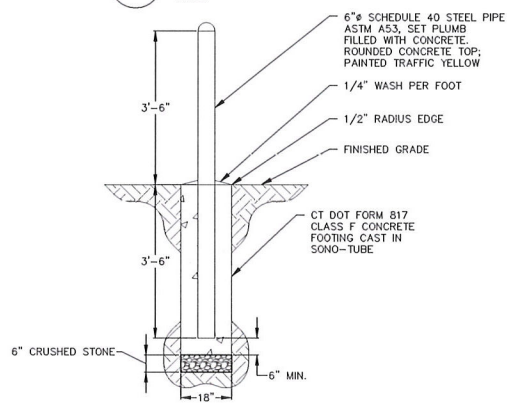
5 TYPICAL SHRUB  
C-7 N.T.S.



6 TYPICAL BOLLARD  
C-7 N.T.S.

**NOTES:**

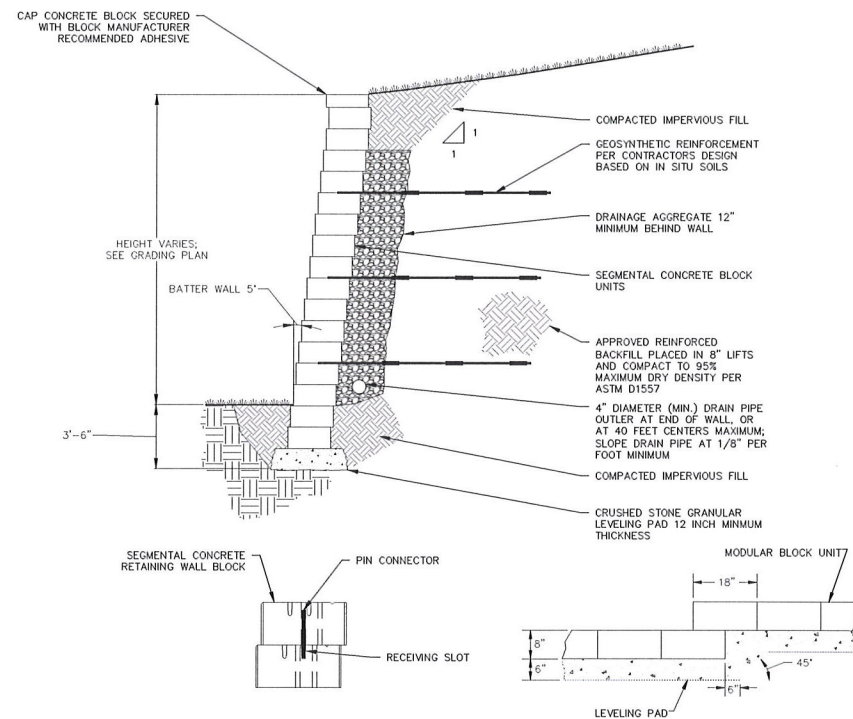
- TOPSOIL MIX, SEE SPEC.
- DO NOT DAMAGE MAIN ROOTS OR DESTROY ROOT BALL WHEN INSTALLING TREE STAKE.
- WATER THOROUGHLY AFTER INSTALLATION.
- REMOVE TREE RINGS AND STAKES TWO YEARS AFTER INSTALLATION.
- PROVIDE DRAINAGE FOR PLANTING PIT IN IMPERMEABLE SOIL.
- ALL TREES MUST BE TAGGED AND APPROVED BY CONSULTANT WITHIN 14 DAYS AFTER TENDER CLOSING.



**NOTES:**

- EACH BARRIER SHALL BE FILLED WITH CONCRETE AND HAVE A WATER SHEDDING CAP.
- BARRIER SHALL BE PAINTED WITH YELLOW COLOR HIGH VISIBILITY PAINT.
- PROTECTIVE BARRIERS ARE REQUIRED WHEN PADMOUNTED EQUIPMENT IS LOCATED IN AN AREA EXPOSED TO VEHICULAR TRAFFIC, SNOW REMOVAL EQUIPMENT, ETC.
- WHERE BARRIERS ARE REQUIRED, THEY SHALL BE INSTALLED BY THE CONTRACTOR BEFORE THE PADMOUNTED EQUIPMENT IS SET IN PLACE.
- BARRIERS SHALL BE INSTALLED ON THE SIDES EXPOSED TO VEHICULAR TRAFFIC.
- BARRIERS SHALL NOT INTERFERE WITH THE OPENING OF EQUIPMENT DOORS OR THE OPERATION OF EQUIPMENT.

7 TYPICAL DECIDUOUS TREE  
C-7 N.T.S.



8 SEGMENTAL RETAINING WALL  
C-7 N.T.S.

**MODULAR RETAINING WALL NOTES:**

- STRIP VEGETATION AND ORGANIC SOIL FROM WALL ALIGNMENT.
- BENCH CUT ALL EXCAVATED SLOPES.
- DO NOT OVER EXCAVATE UNLESS DIRECTED BY SITE SOIL ENGINEER TO REMOVE UNSUITABLE SOIL.
- SITE SOIL ENGINEER SHALL VERIFY FOUNDATION SOILS AS BEING COMPETENT PER THE DESIGN STANDARDS AND PARAMETERS.
- MINIMUM EMBEDMENT OF WALL BELOW FINISH GRADE SHALL BE 4 COURSES OF BLOCK OR 24 INCHES.
- FOLLOW APPLICABLE PROVISIONS OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WRITTEN SPECIFICATIONS.
- NO 8" CRUSHED STONE SHALL BE INSTALLED BEHIND THE WALL UP TO 18" FROM THE TOP OF THE WALL. CRUSHED STONE SHALL NOT EXTEND BELOW FINISHED GRADE IN FRONT OF WALL.
- FOR UNITS TO BE EMBEDDED, COMPACT FILL IN FRONT OF UNITS AT THE SAME TIME BACKFILL BEHIND UNITS IS COMPACTED.
- COMPACTION TESTS SHALL BE TAKEN AS THE WALL IS INSTALLED. THE MINIMUM NUMBER OF TESTS SHALL BE DETERMINED BY THE ENGINEER.
- COMPACTION SHALL BE TO 95% OF MAXIMUM STANDARD PROCTOR DENSITY. (ASTM D-698)
- IF CONDITIONS ARE DIFFERENT THAN THOSE STATED IN THESE DRAWINGS AND SPECIFICATIONS, THE CONTRACTOR MUST CONTACT ENGINEER PRIOR TO PROCEEDING WITH THE CONSTRUCTION OF THE WALL.
- IF WALL LEVELING PAD REQUIRES FILL IT SHALL BE COMPACTED GRAVEL FROM BOTTOM OF EXCAVATION TO SUITABLE SOIL TO BOTTOM OF WALL.

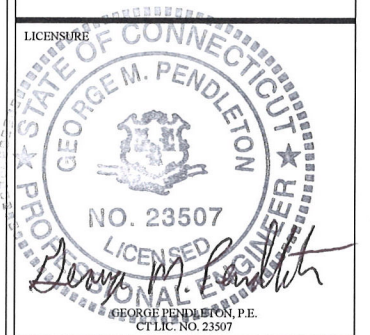
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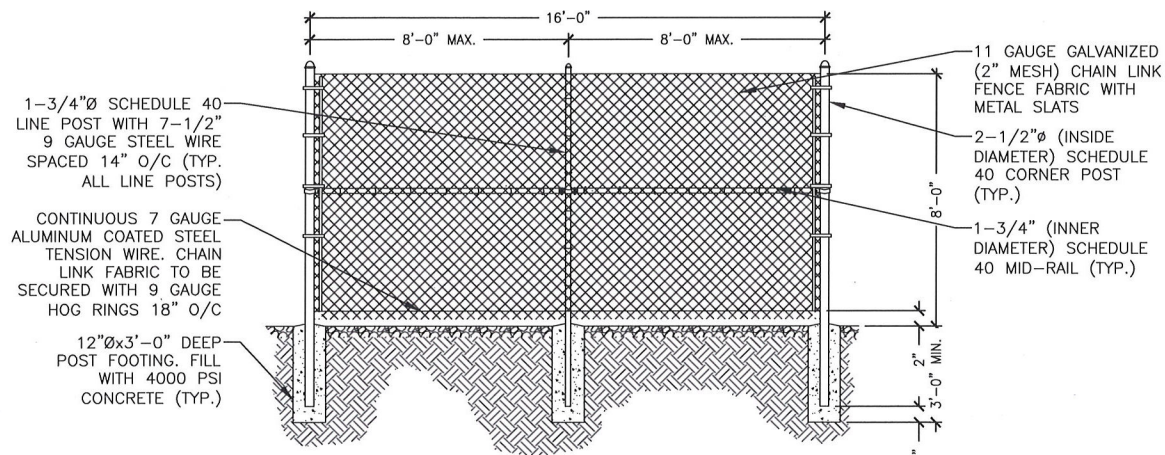
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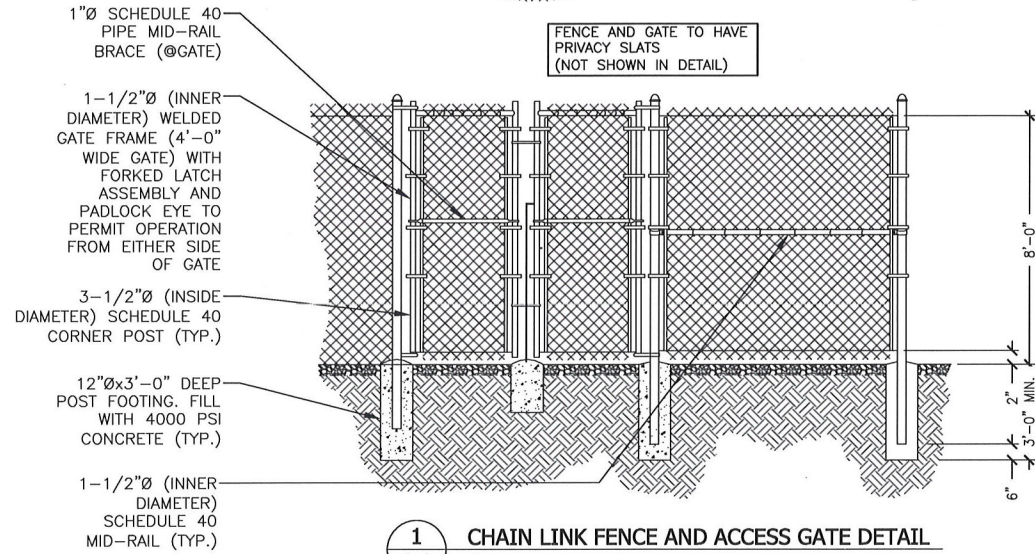
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**SITE DETAILS**

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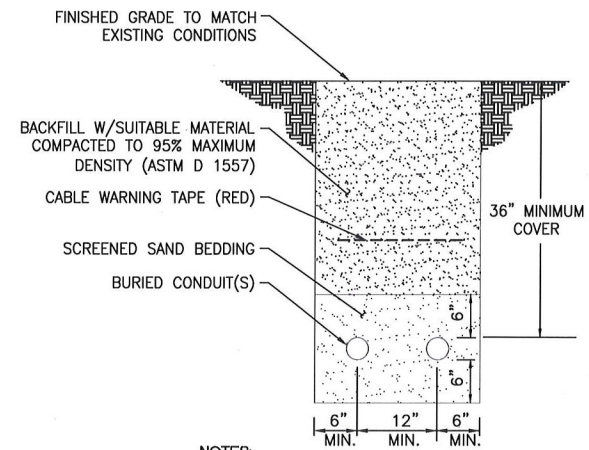


**1 CHAIN LINK FENCE AND ACCESS GATE DETAIL**  
Scale: N.T.S.



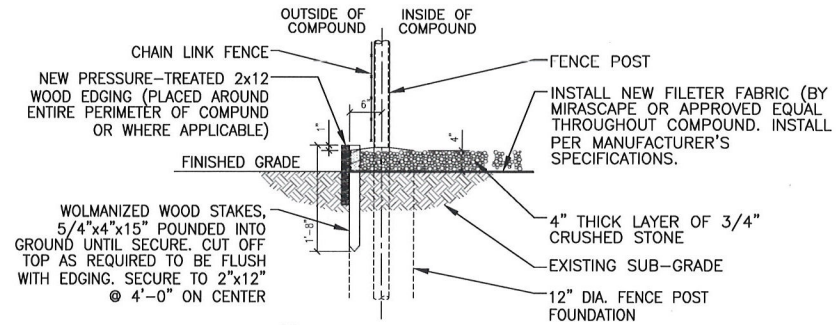
- NOTES:**
- ENGINEER SHALL INSPECT PLACEMENT OF EGR CONDUCTOR PRIOR TO BACKFILLING.
  - MAINTAIN MIN. 2'-0" LINEAR CLEARANCE BETWEEN NATURAL CLAY BACKFILL AND THE FOLLOWING: FOUNDATION, UNDERGROUND PIPING/CONDUIT, UNDERGROUND SERVICES. IN THE CLEARANCE AREAS, USE EARTH BACKFILL INSTEAD.
  - EXERCISE HANDLING AND USE PRECAUTION OF BACKFILL MATERIAL PER MFR'S REQUIREMENTS.

**2 EGR TRENCH/BACKFILL DETAIL**  
Scale: N.T.S.

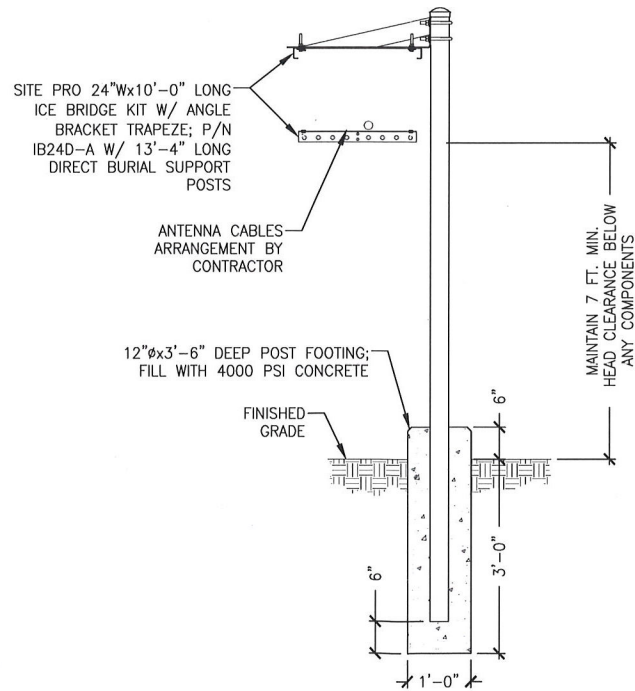


- NOTES:**
- THE CLEAN FILL SHALL PASS THROUGH A 3/8" MESH SCREEN AND SHALL NOT CONTAIN SHARP STONES. OTHER BACKFILL SHALL NOT CONTAIN ASHES, CINDERS, SHELLS, FROZEN MATERIAL, LOOSE DEBRIS OR STONES LARGER THAN 2" IN MAXIMUM DIMENSION.
  - WHERE EXISTING UTILITIES ARE LIKELY TO BE ENCOUNTERED, CONTRACTOR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

**3 TYPICAL ELECTRICAL TRENCH DETAIL**  
Scale: N.T.S.

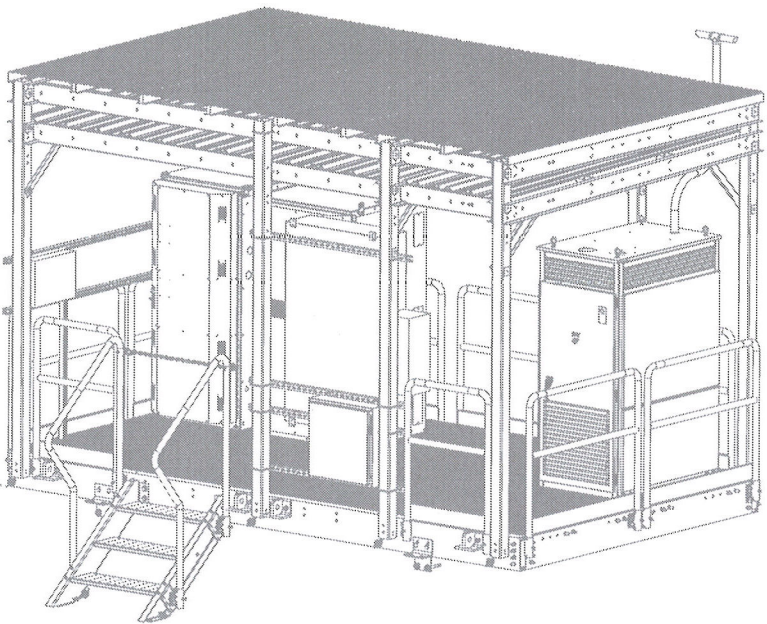


**4 GRADE DETAIL**  
Scale: N.T.S.



**5 TYPICAL EQUIPMENT PLATFORM**  
Scale: N.T.S.

**6 CABLE BRIDGE DETAIL**  
Scale: N.T.S.



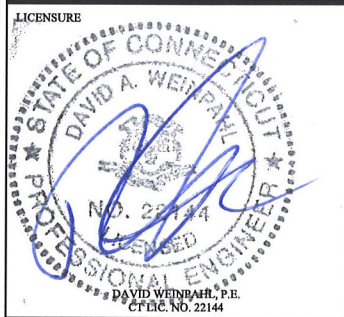
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