



500 ENTERPRISE DRIVE  
ROCKY HILL, CT 06067

**Hudson**  
Design Group Inc

1600 OSGOOD STREET  
BUILDING 20 NORTH, SUITE 2-101  
N. ANDOVER, MA 01845

TEL: (978) 557-5553  
FAX: (978) 336-5586

*Daniel P. Hamm*

STATE OF CONNECTICUT  
DANIEL P. HAMM  
No. 24178  
LICENSED PROFESSIONAL ENGINEER

ENGINEER/LAND SURVEYOR

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REVISIONS		
REV. #	DATE	DESCRIPTION
2	04/13/10	REVISE SHELTER DETAILS
1	03/31/10	REVISE EASEMENTS
0	03/09/10	ISSUED FOR REVIEW

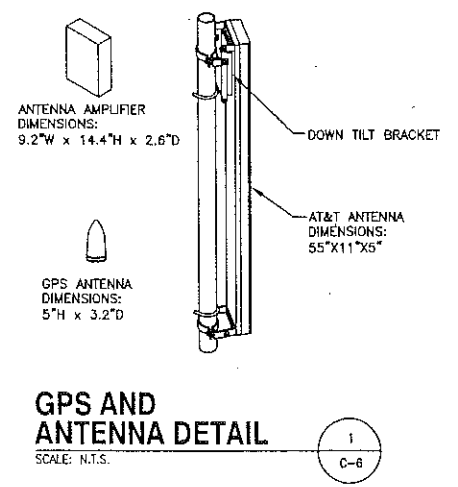
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	DRAWN BY:	SB	AS SHOWN
	CHECKED BY:	DPH	

SITE NAME:  
**1257-AVON**

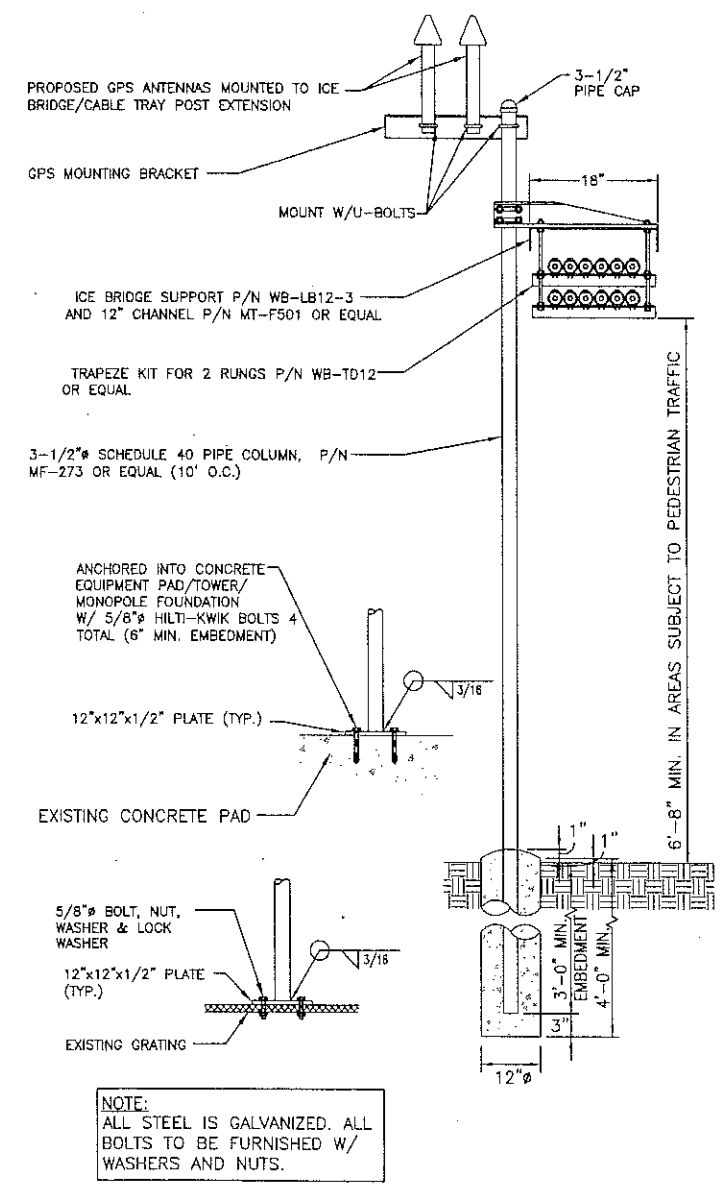
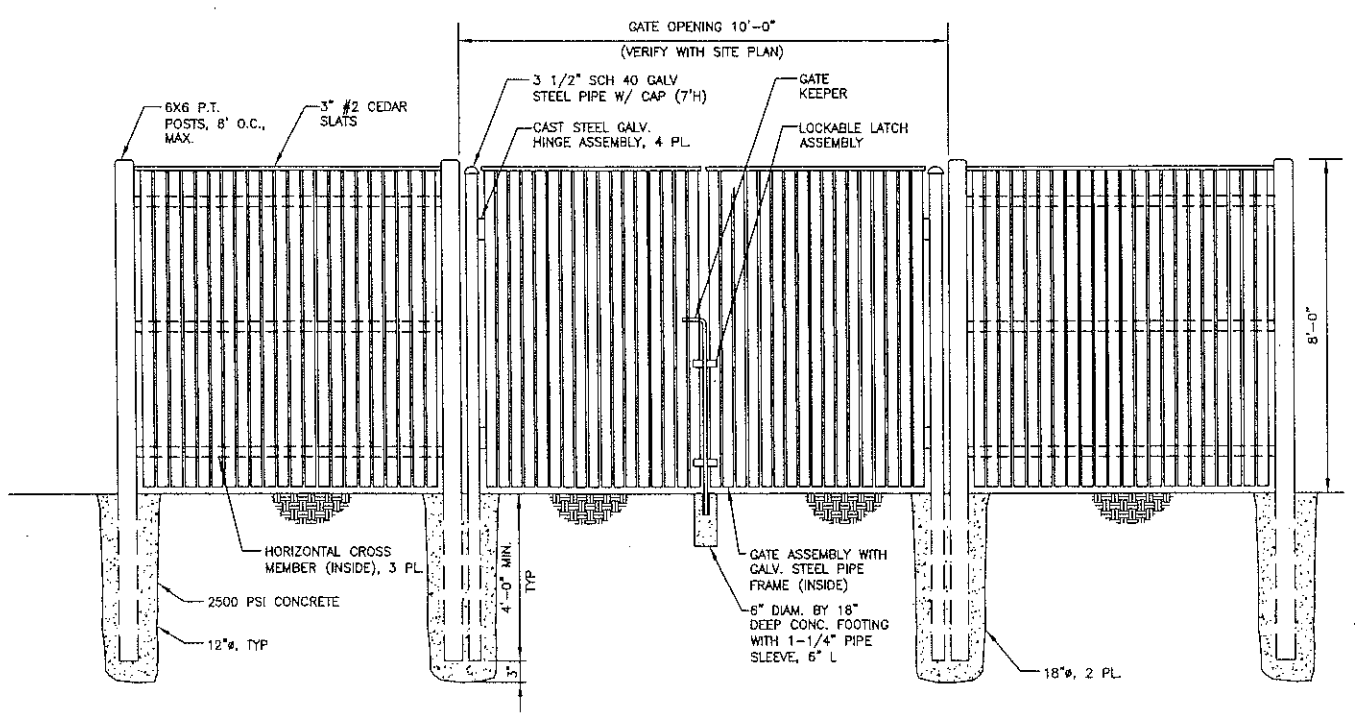
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224 LOVELY STREET  
AVON, CT 06067

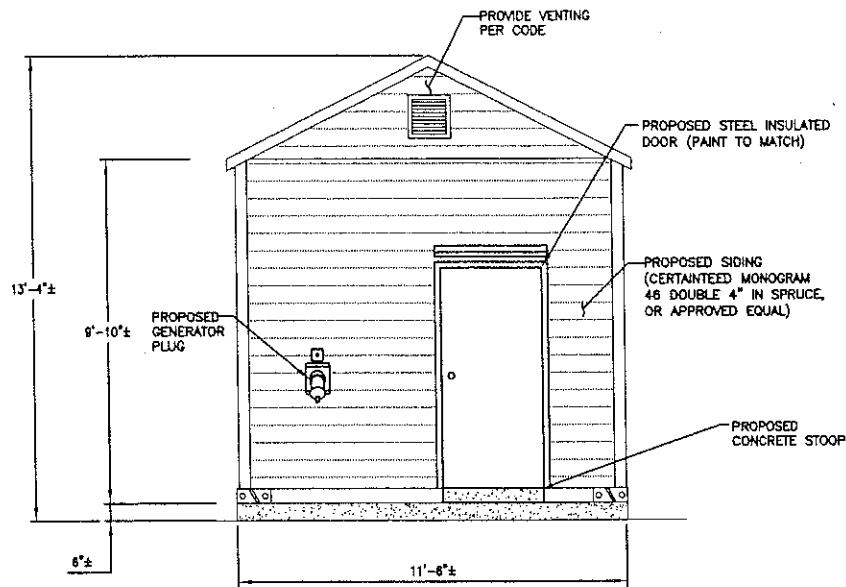
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**DETAILS**

DRAWING NO.:  
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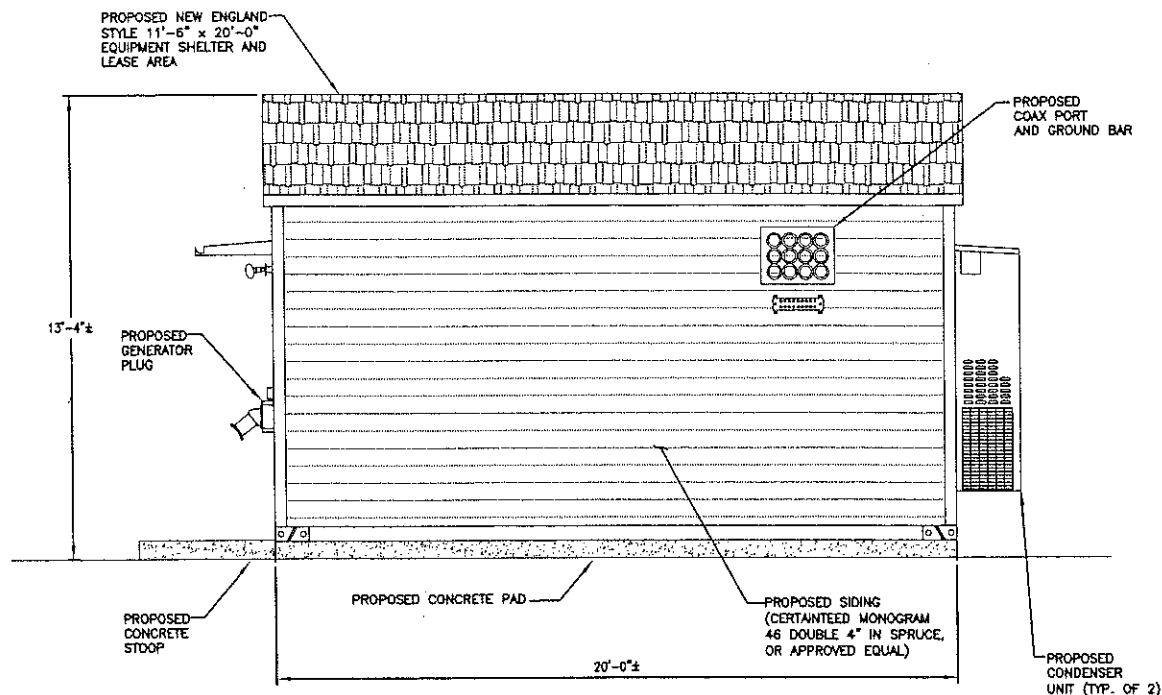


**NOTE:**  
STOCKADE FENCE TO BE WALPOLE WOODWORKER SHADOW BOX STYLE, OR APPROVED EQUAL

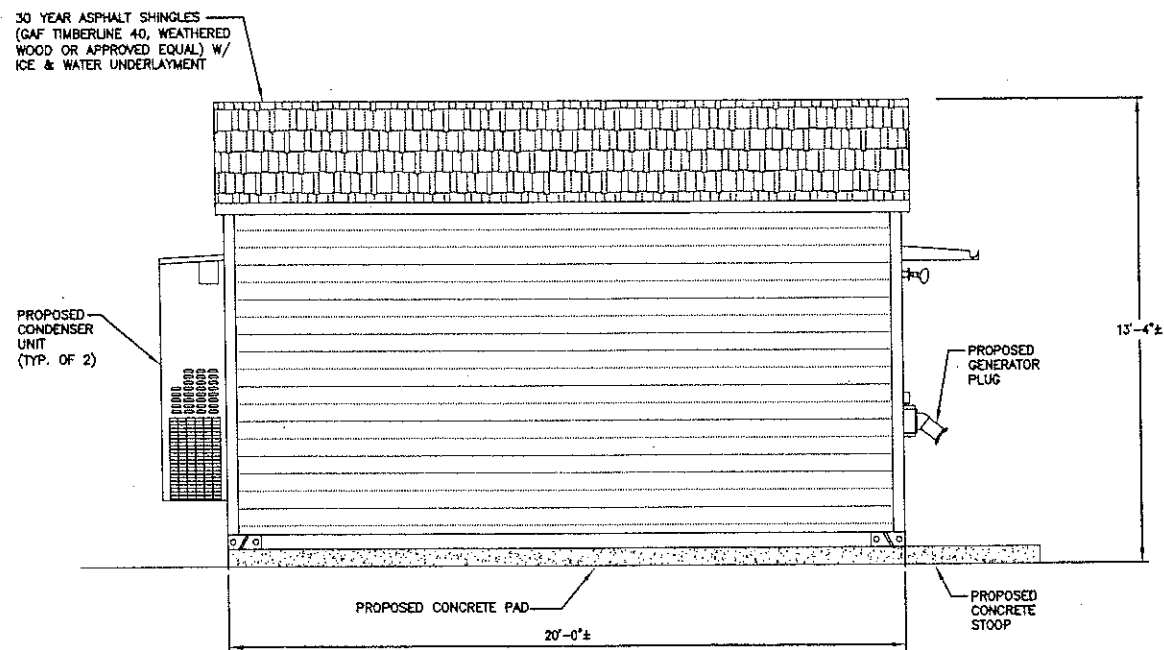




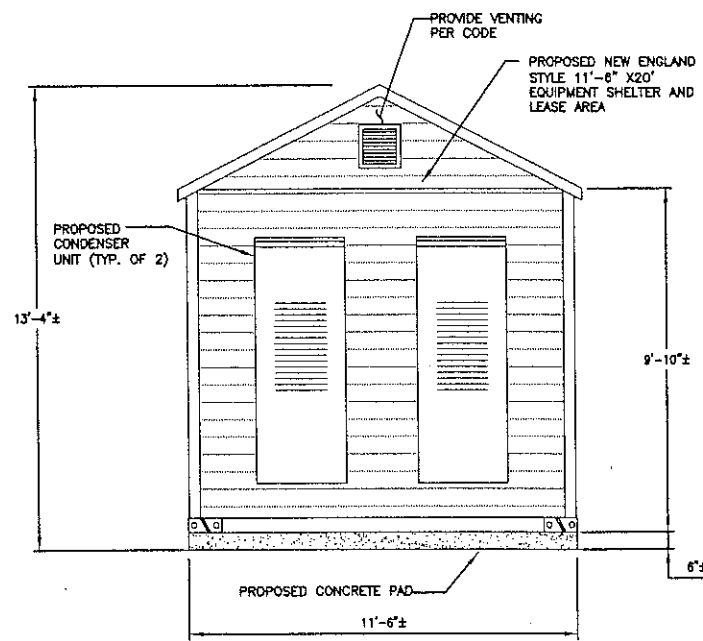
EQUIPMENT SHELTER ELEVATION -- SOUTH  
 SCALE: 3/8"=1'-0"  
 1  
 C-7



EQUIPMENT SHELTER ELEVATION -- EAST  
 SCALE: 3/8"=1'-0"  
 3  
 C-7



EQUIPMENT SHELTER ELEVATION -- WEST  
 SCALE: 3/8"=1'-0"  
 2  
 C-7



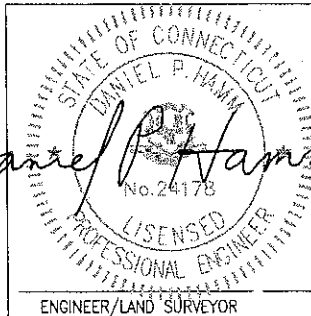
EQUIPMENT SHELTER ELEVATION -- NORTH  
 SCALE: 3/8"=1'-0"  
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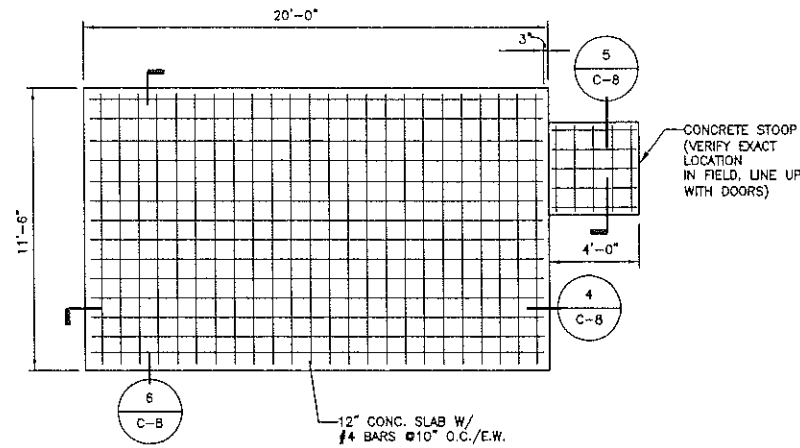
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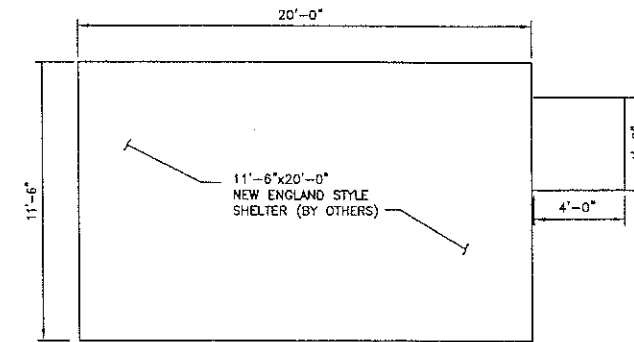
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**FOUNDATION NOTES & CONCRETE SPECIFICATIONS**

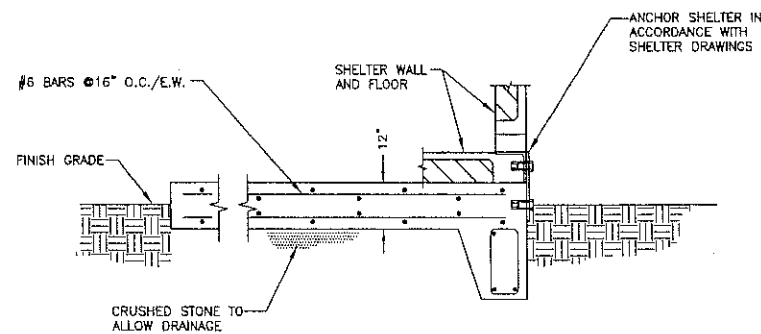
- FOUNDATION AREA SHALL BE EXCAVATED TO THE DEPTH AND DIMENSIONS SHOWN ON THE PLANS. EXISTING LEDGE AND ALL OTHER EXISTING UNSUITABLE MATERIAL SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF-SITE. THE SUBGRADE SHALL BE ROLLED WITH A 1-TON, VIBRATORY, WALK-BEHIND ROLLER AT A SPEED OF LESS THAN 2 FPS, 6 PASSES MINIMUM, TO PROVIDE UNYIELDING SURFACE.
- UNDERCUT SOFT OR "WEAVING" AREAS A MINIMUM OF 12 INCHES DEEP. BACKFILL UNDERCUT AREA WITH FILL MEETING THE SPECIFICATIONS OF STRUCTURAL FILL. (SEE NOTE #3)
- CONCRETE TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH ( $f'c$ )=4000 PSI. CONCRETE TO BE AIR ENTRAINED, DESIRED AIR CONTENT TO BE 6% (PLUS OR MINUS 2%)
- BAR REINFORCING TO BE ASTM A615 GRADE 60.
- WELDED WIRE FABRIC TO CONFORM TO THE REQUIREMENTS OF ASTM A185. WIRES FOR FABRIC TO CONFORM TO THE REQUIREMENTS OF ASTM A82.
- COORDINATE WITH MANUFACTURER OF PREFABRICATED SHELTER FOR LOCATION OF ATTACHMENTS TO BASE SLAB.
- ALL REINFORCING TO HAVE 2" MINIMUM CONCRETE COVER.
- ALL CONCRETE MATERIALS AND WORKMANSHIP SHALL CONFORM TO LATEST EDITION OF ACI 318 BUILDING CODE AND BOCA NATIONAL BUILDING CODE.



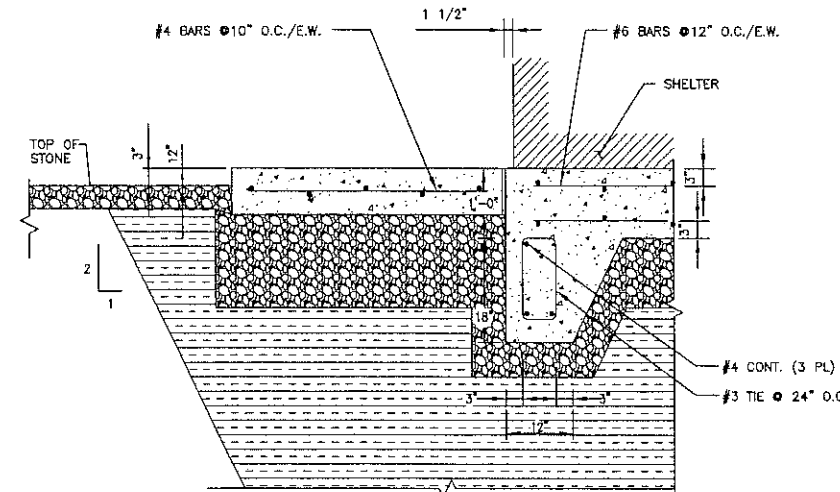
**SHELTER FOUNDATION PLAN**  
SCALE: 1/4" = 1'-0"



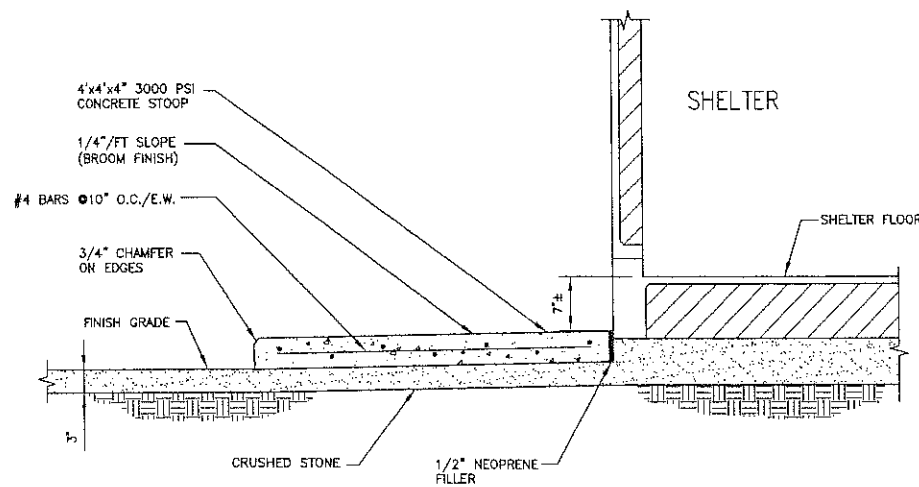
**SHELTER PLAN**  
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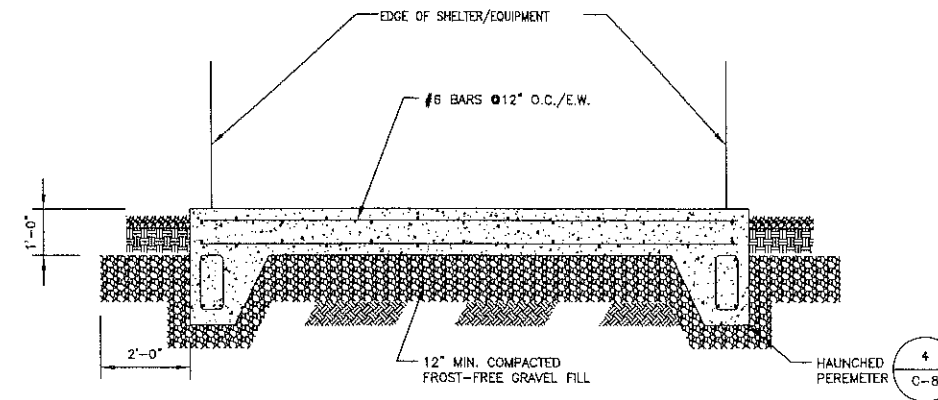
**CONCRETE SLAB CONNECTION DETAIL**  
SCALE: N.T.S.



**SECTION**  
SCALE: 3/4" = 1'-0"



**CONCRETE STOOP**  
SCALE: N.T.S.



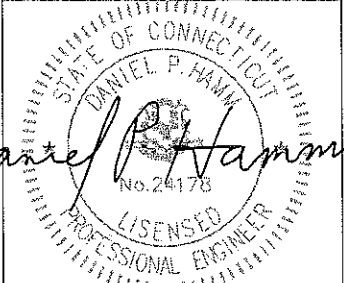
**SECTION**  
SCALE: 1/2" = 1'-0"



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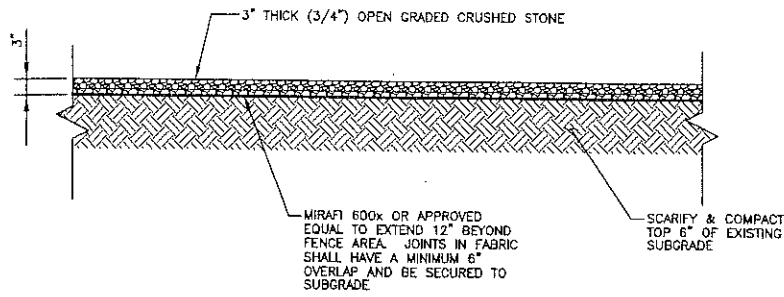
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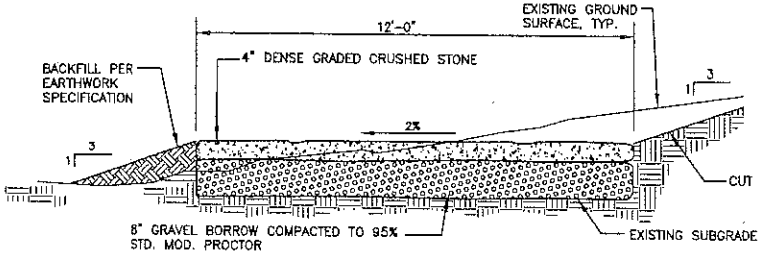
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**SHELTER FOUNDATION & PAD DETAILS**

DRAWING NO:  
**C-8**



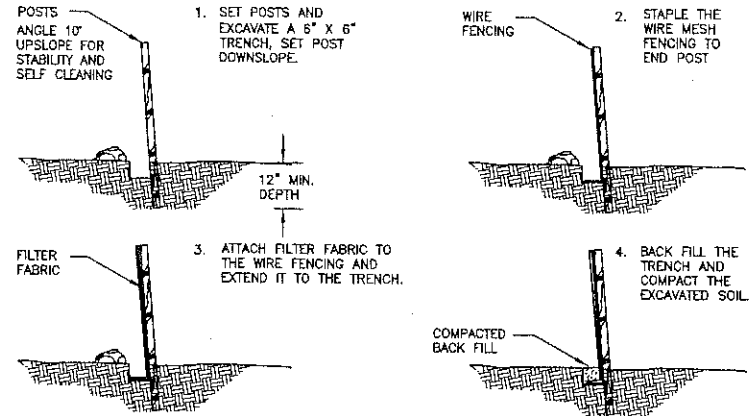
**COMPOUND PAVING DETAIL**  
SCALE: N.T.S.

1  
C-9



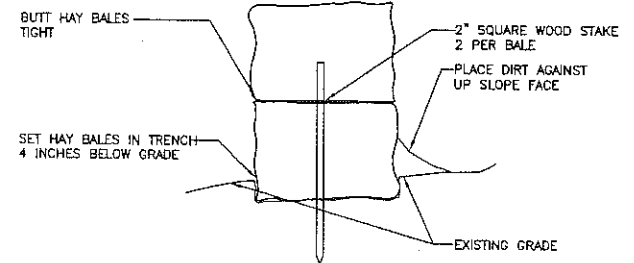
**GRAVEL DRIVE DETAIL**  
SCALE: N.T.S.

2  
C-9



**SEDIMENTATION CONTROL BARRIER**  
SCALE: N.T.S.

3  
C-9



**HAYBALE EROSION CONTROL BARRIER**  
SCALE: N.T.S.

4  
C-9

**EROSION CONTROL**

**CONSTRUCTION SEQUENCE**

- 1) NOTIFY THE TOWN INLAND WETLANDS AGENT AT LEAST ONE WEEK PRIOR TO THE PRE-CONSTRUCTION MEETING.
- 2) COMPLETE A "CALL BEFORE YOU DIG" PRIOR TO ANY ON SITE ACTIVITY. RECALL EVERY 30 DAYS.
- 3) CUT AND STUMP AREAS OF PROPOSED CONSTRUCTION.
- 4) INSTALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AS REQUIRED.
- 5) WOOD CHIPS GENERATED FROM CLEARING ACTIVITIES MAY BE USED AS A TEMPORARY STABILIZATION MEASURE IN ADDITION TO SILT FENCING & HAY BALES.
- 6) INSTALL HAY BALES TO "BACK UP" SILTATION FENCE ALONG ALL DOWNGRADIENT WETLANDS BOUNDARIES.
- 7) ESTABLISH ROADWAY CENTERLINE WITH GRADE STAKES AND OFF SETS.
- 8) STOCKPILE EXCAVATED SOILS A MINIMUM OF 75 FEET FROM ANY WETLAND AREA.
- 9) CONSTRUCT CLOSED DRAINAGE SYSTEM. PROTECT CULVERT INLETS WITH SEDIMENTATION BARRIERS.
- 10) ROUGH GRADE DITCH STARTING FROM THE DOWNGRADIENT LOCATION
- 11) INSTALL STONE LINING AND LEVEL SPREADERS AT CULVERT OUTLETS
- 12) STABILIZE GRADED SLOPES.
- 13) CONSTRUCT ROADWAYS AND PERFORM SITE GRADING, PLACING HAY BALES AND SILTATION FENCES AS REQUIRED TO CONTROL SOIL EROSION.
- 14) EXCAVATE FOR ANY SUBSURFACE UTILITIES.
- 15) STOCKPILE EXCAVATED SOILS A MINIMUM OF 75 FEET FROM ANY WETLAND AREA.
- 16) ESTABLISH SEDIMENT AND EROSION CONTROLS AROUND STOCKPILE SOILS.
- 17) INSTALL UTILITY SERVICES
- 18) INSTALL STORM DRAINAGE STARTING AT THE MOST DOWNGRADIENT LOCATION.
- 19) INSTALL ALL RIP RAP AT OUTLETS FOR STORM DRAINAGE.
- 20) INSTALL HAY BALE PROTECTION TO STORM DRAINAGE INLETS.
- 21) INSTALL ROAD
- 22) BEGIN TEMPORARY AND PERMANENT SEEDING AND MULCHING. ALL CUT AND FILL SLOPES SHALL BE SEED OR MULCHED IMMEDIATELY AFTER THEIR CONSTRUCTION. NO AREA SHALL BE LEFT UNSTABILIZED FOR A TIME PERIOD OF MORE THAN 30 DAYS.
- 23) DAILY, OR AS REQUIRED, CONSTRUCT, INSPECT, AND IF NECESSARY, RECONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, SILT FENCES AND SEDIMENT TRAPS INCLUDING MULCHING AND SEEDING.
- 24) BEGIN EXCAVATION FOR AND CONSTRUCTION OF TOWERS AND PLATFORMS.
- 25) FINISH PAVING ALL ROADWAYS, DRIVES, AND PARKING AREAS.
- 26) COMPLETE PERMANENT SEEDING AND LANDSCAPING.
- 27) NO FLOW SHALL BE DIVERTED TO ANY WETLANDS UNTIL A HEALTHY STAND OF GRASS HAS BEEN ESTABLISHED IN REGRADED AREAS.
- 28) AFTER GRASS HAS BEEN FULLY GERMINATED IN ALL SEEDED AREAS, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES.

**IMPACT OF STORMWATER DURING CONSTRUCTION ACTIVITY**

ALL SEDIMENT CONTROLS, INCLUDING SILTATION FENCES AND HAY BALES MUST BE INSPECTED WEEKLY OR IMMEDIATELY AFTER A STORMWATER RUNOFF GENERATING EVENT. ALL SEDIMENT CONTROLS MUST BE MAINTAINED IN AN EFFECTIVE CONDITION.

IN THE EVENT THAT STORMWATER IS FLOWING IN THE EXISTING/PROPOSED DRAINAGE SWALE, THE FOLLOWING MUST BE NOTED:

- 1) BY INSTALLING THE STORM DRAINAGE STARTING AT THE MOST DOWNGRADIENT LOCATION, AND BY CONSTRUCTION THE DITCH STARTING AT THE MOST DOWNGRADIENT LOCATION, STORMWATER FLOW WILL NOT BE IMPOUNDED DURING THE CONSTRUCTION ACTIVITY.
- 2) ADDITIONAL MEASURES MUST BE TAKEN DURING TIMES OF RAIN OR FLOW. THESE INCLUDE THE CESSATION OF ALL CONSTRUCTION ACTIVITY IN THE DRAINAGE SWALES AT TIMES OF "HEAVY RAIN" OR "SIGNIFICANT FLOW" WHICH HAVE THE POTENTIAL TO CAUSE SOIL SCOURING. IN THE ABSENCE OF AN ON SITE AGREEMENT WITH THE TOWN INLAND WETLANDS AGENT.

**CONSTRUCTION SPECIFICATIONS - SILT FENCE**

- 1) THE GEOTEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR SILT FENCES.
- 2) THE FABRIC SHALL BE EMBEDDED A MINIMUM OF 8 INCHES INTO THE GROUND AND THE SOIL COMPACTED OVER THE EMBEDDED FABRIC.
- 3) WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES OR STAPLES.
- 4) FILTER CLOTH SHALL BE FASTENED SECURELY TO THE WOVEN WIRE FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP, MID-SECTION AND BOTTOM.
- 5) WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED.
- 6) FENCE POSTS SHALL BE A MINIMUM OF 36 INCHES LONG AND DRIVEN A MINIMUM OF 16 INCHES INTO THE GROUND. WOOD POSTS SHALL BE OF SOUND QUALITY HARDWOOD AND SHALL HAVE A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES.
- 7) MAINTENANCE SHALL BE PERFORMED AS NEEDED TO PREVENT BULGES IN THE SILT FENCE DUE TO DEPOSITION OF SEDIMENT.

**MAINTENANCE - SILT FENCE**

- 1) 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.
- 2) 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.
- 3) SEDIMENT SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACHED APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- 4) 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 VEGETATED.

**EROSION CONTROL MEASURES:**

THE CONTRACTOR (TO BE NAMED PRIOR TO ANY WORK BEING PERFORMED) IS ASSIGNED THE RESPONSIBILITY FOR IMPLEMENTING THIS EROSION AND SEDIMENT CONTROL PLAN. THIS RESPONSIBILITY INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, NOTIFYING THE PLANNING AND ZONING OFFICE OF ANY TRANSFER OF THIS RESPONSIBILITY, AND FOR CONVEYING A COPY OF THE EROSION AND SEDIMENT CONTROL PLAN IF THE TITLE TO THE LAND IS TRANSFERRED.

- 1) DISTURBED AREAS SHALL BE KEPT TO THE MINIMUM AREA NECESSARY TO CONSTRUCT THE ROADWAYS AND ASSOCIATED DRAINAGE FACILITIES.
- 2) HAY BALE BARRIERS AND SEDIMENT TRAPS SHALL BE INSTALLED AS REQUIRED. BARRIERS AND TRAPS ARE TO BE MAINTAINED AND CLEANED UNTIL ALL SLOPES HAVE A HEALTHY STAND OF GRASS.
- 3) BALED HAY AND MULCH SHALL BE MOWINGS OF ACCEPTABLE HERBACEOUS GROWTH, FREE FROM NOXIOUS WEEDS OR WOODY STEMS, AND SHALL BE DRY. NO SALT HAY SHALL BE USED.
- 4) FILL MATERIAL SHALL BE FREE FROM STUMPS, WOOD, ROOTS, ETC.
- 5) STOCKPILED MATERIALS SHALL BE PLACED ONLY IN NON RESTRICTED WETLAND AREAS ON PLANS. STOCKPILES SHALL BE PROTECTED BY SILTATION FENCE AND SEEDED TO PREVENT EROSION. THESE MEASURES SHALL REMAIN UNTIL ALL MATERIAL HAS BEEN PLACED OR DISPOSED OFF SITE.
- 6) ALL DISTURBED AREAS SHALL BE LOAMED AND SEEDED. A MINIMUM OF 4 INCHES OF LOAM SHALL BE INSTALLED WITH NOT LESS THAN ONE POUND OF SEED PER 50 SQUARE YARDS OF AREA. SLOPES 2:1 OR GRATED TO BE STABILIZED WITH TURF REINFORCEMENT MAT TYPE P300P NORTH AMERICAN GREEN (1-800-772-2040), OR ENGINEER APPROVED EQUAL.
- 7) APPLICATION OF GRASS SEED, FERTILIZERS AND MULCH SHALL BE ACCOMPLISHED BY BROADCAST SEEDING OR HYDROSEEDING AT THE RATES OUTLINED BELOW:

SEED MIX (SLOPES LESS THAN 4:1)	LBS./ACRE
CREeping RED FESCUE	20
TALL FESCUE	20
RED TOP	2
	42

SLOPE MIX (SLOPES GREATER TAN 4:1)	LBS./ACRE
CREeping RED FESCUE	20
TALL FESCUE	20
BIRDFOOT TREFOIL	8
	48

- 8) AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED THE TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED.
- 9) PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
- 10) ALL CATCH BASIN INLETS WILL BE PROTECTED WITH LOW POINT SEDIMENTATION BARRIER.
- 11) ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED AND CLEANED AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
- 12) ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA.
- 13) NO DISCHARGE SHALL BE DIRECTED TOWARDS ANY PROPOSED DITCHES, SWALES, OR PONDS UNTIL THEY HAVE BEEN PROPERLY STABILIZED.

**CONSTRUCTION SPECIFICATIONS - STRAW OR HAY BALES**

- 1) BALES SHALL BE PLACED IN A ROW WITH THE ENDS TIGHTLY ADJOINING.
- 2) EACH BALE SHALL BE EMBEDDED IN THE GROUND A MINIMUM OF 4 INCHES.
- 3) BALES SHALL BE ANCHORED IN PLACE BY AT LEAST TWO STAKES DRIVEN THROUGH THE BALE. THE STAKES SHALL BE DRIVEN AT LEAST 18 INCHES INTO THE GROUND.
- 4) BARRIERS SHALL BE INSPECTED AFTER EVERY RAINFALL AND PROMPTLY REPAIRED FOR REPLACED AS NECESSARY.
- 5) BALES SHALL BE REMOVED WHEN NO LONGER NEEDED AND THE SEDIMENT COLLECTED SHALL BE DISPOSED OF PROPERLY.

**MAINTENANCE - STRAW OR HAY BALES**

- 1) STRAW OR HAY BALES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
- 2) CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, UNDERCUTTING BENEATH THE BALES, AND FLOW AROUND THE END OF THE BALES.
- 3) NECESSARY REPAIRS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.
- 4) SEDIMENT DEPOSITS SHOULD BE CHECKED AFTER EACH RAINFALL. THE DEPOSITS SHOULD BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF OF THE HEIGHT OF THE TABLE.
- 5) SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE BARRIER HAS BEEN DISMANTLED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED USING THE APPROPRIATE VEGETATIVE BMP.



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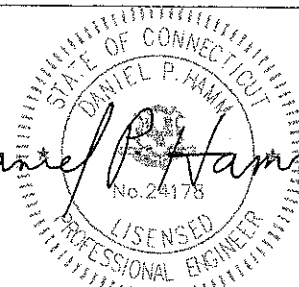


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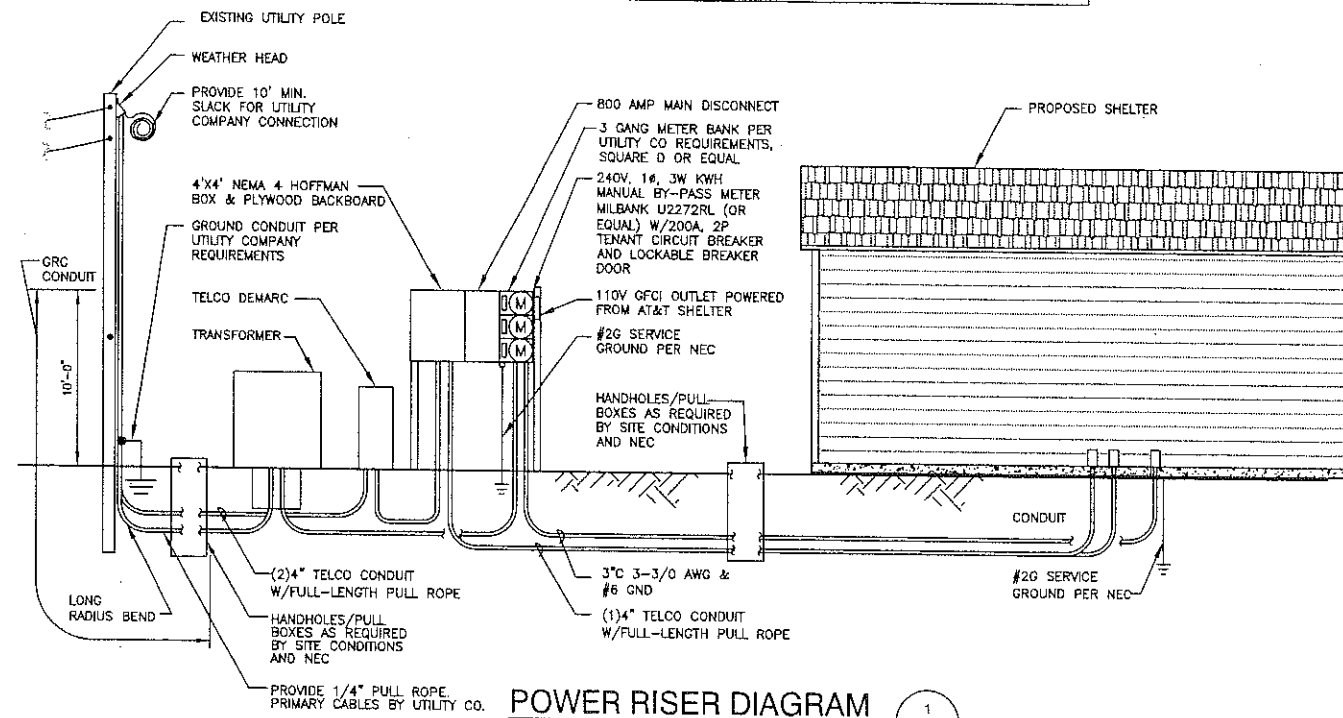
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DETAILS**

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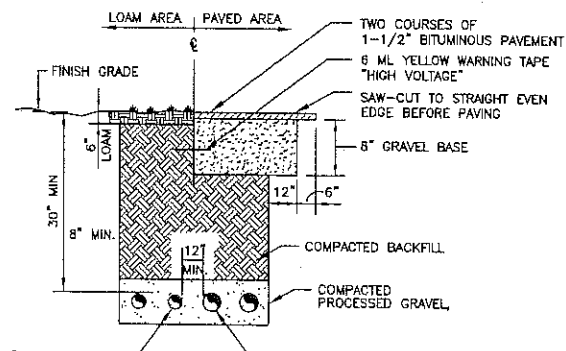
MAKE ALL CONNECTIONS AS PER UTILITY COMPANY'S REQUIREMENTS.



**POWER RISER DIAGRAM**

SCALE: N.T.S.

1  
C-10



SCHEDULE 40, (2) 3" CONDUIT FOR NEW ELECTRICAL SERVICES  
SEE UTILITY AND SITE PLANS. PROVIDE APPROVED PULL BOXES AS REQUIRED, AND COORDINATE INSTALLATION W/ ALL UTILITY COMPANIES FOR INTERFACING AT TERMINATION POINTS. PROVIDE FULL LENGTH PULL ROPES (TYP.).

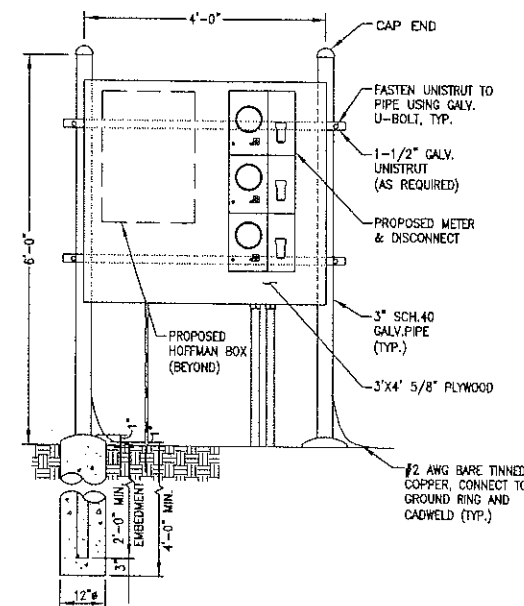
SCHEDULE 40, (2) 4" 2" CONDUIT FOR NEW TELEPHONE SERVICES  
SEE UTILITY AND SITE PLANS. PROVIDE APPROVED PULL BOXES AS REQUIRED, AND COORDINATE INSTALLATION W/ ALL UTILITY COMPANIES FOR INTERFACING AT TERMINATION POINTS. PROVIDE FULL LENGTH PULL ROPES (TYP.).

**BURIED CONDUIT DETAIL**

SCALE: N.T.S.

2  
C-10

NOTE:  
DETAIL AS SHOWN IS FOR SECONDARY ELECTRIC SERVICE. PRIMARY HIGH VOLTAGE SERVICE REQUIRES 4" CONCRETE ENCASEMENT.



**METER & HOFFMAN BOX  
ELEVATION DETAIL**

SCALE: N.T.S.

3  
C-10

**LANDSCAPE SCHEDULE**








TREES						
KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AC	4	<i>Amelanchier canadensis</i>	SHADBLOW SERVICEBERRY	B&B	5' - 6' HT.	MULTI-STEM.
CC	2	<i>Cercis canadensis</i>	EASTERN REDBUD	B&B	7' - 8' HT.	UNIFORM, WELL DEV.
ID	6	<i>Ilex opaca</i>	AMERICAN HOLLY	B&B	7' - 8' HT.	UNIFORM, WELL DEV. 7' MIN. HT.
PF	9	<i>Pinus flexilis 'Glauca'</i>	LIMBER BLUE PINE	B&B	7' - 8' HT.	UNIFORM, WELL DEV. 7' MIN. HT.
PS	11	<i>Pinus Strobus</i>	EASTERN WHITE PINE	B&B	7' - 8' HT.	UNIFORM, WELL DEV. 7' MIN. HT.
TC	13	<i>Taxus canadensis</i>	CANADIAN HEMLOCK	B&B	7' - 8' HT.	UNIFORM, WELL DEV. 7' MIN. HT.

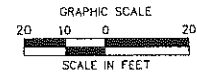
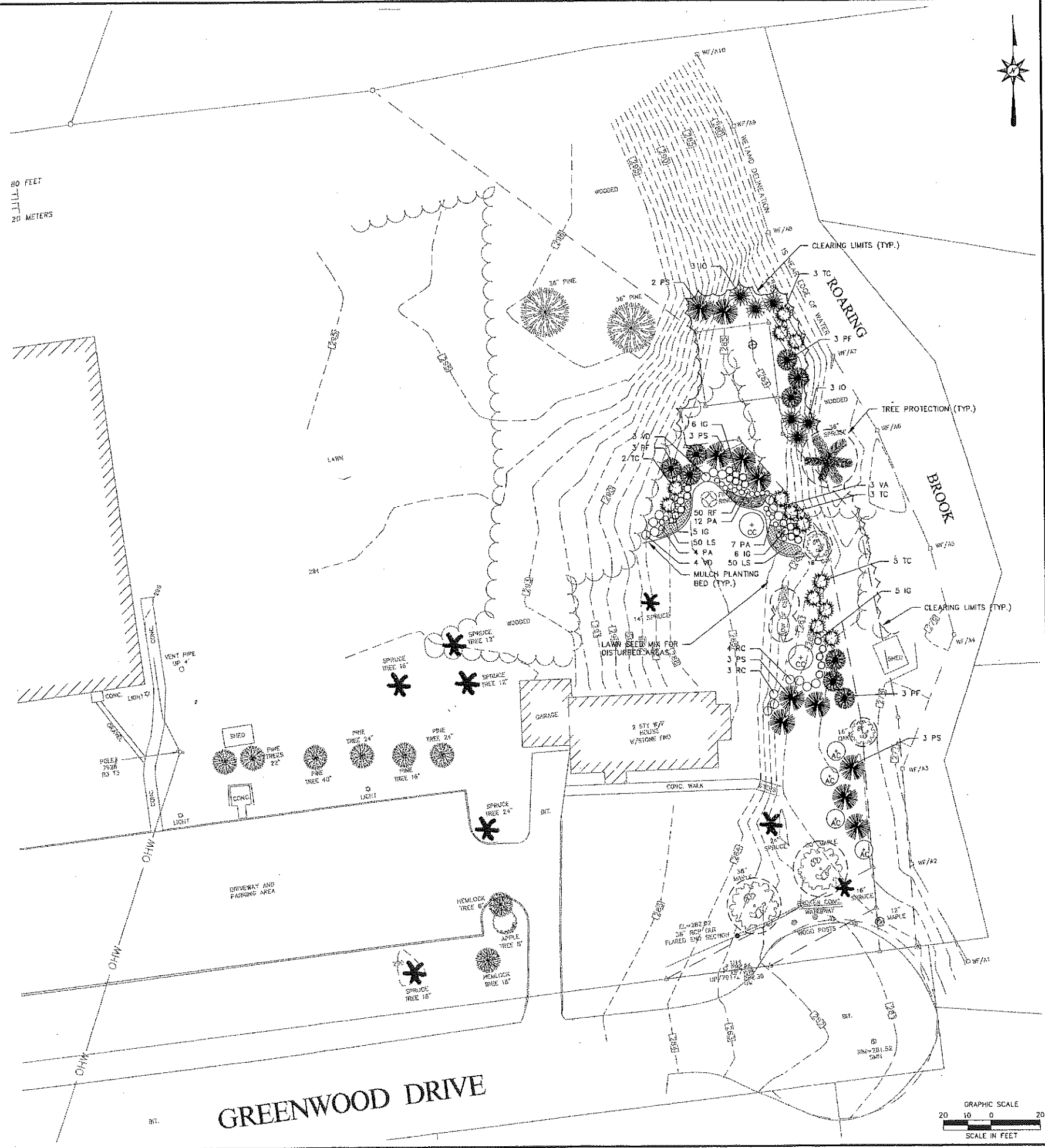
SHRUBS						
KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
IG	22	<i>Ilex glabra 'Compacta'</i>	INKBERRY	CONT.	24"-30"	4' ON CENTER SPACING
RC	7	<i>Rhododendron catawbiense 'Roseum Elegans'</i>	ROSELUM ELEGANS RHODODENDRON	CONT.	30"-36"	5' ON CENTER SPACING
VA	3	<i>Viburnum acerifolium</i>	MAPLELEAF VIBURNUM	CONT.	30"-36"	5' ON CENTER SPACING
VD	7	<i>Viburnum dentatum</i>	ARROWWOOD VIBURNUM	CONT.	30"-36"	5' ON CENTER SPACING

PERENNIALS						
KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
LS	100	<i>Leucanthemum x superbum 'Becky'</i>	SHASTA DAISY	1 GAL. POT	12" - 18" HT.	18" - 24" OC.
PA	23	<i>Pennisetum alopecuroides</i>	FOUNTAIN GRASS	1 GAL. POT	12" - 18" HT.	18" - 24" OC.
RF	50	<i>Rudbeckia fulgida 'Goldsturm'</i>	BLACK-EYED SUSAN	1 GAL. POT	12" - 18" HT.	18" - 24" OC.

SEE SHEET LL-3 FOR GENERAL NOTES

**LEGEND**

- EXISTING DECIDUOUS TREE 
- TREE PROTECTION 
- EXISTING TREE LINE 
- PROPOSED CLEARING LIMITS 
- PROPOSED EVERGREEN TREE 
- PROPOSED DECIDUOUS SHRUB 
- PROPOSED EVERGREEN SHRUB 



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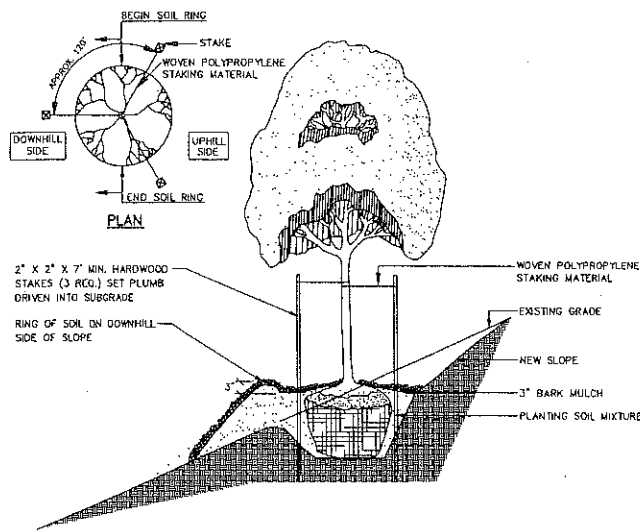
**PROPOSED CELL TOWER**  
GREENWOOD DRIVE  
TOWN OF AVON, CONNECTICUT

REVISIONS  
No. Date  
Designed J.W.F.  
Drawn J.W.F.  
Checked  
Approved  
Scale 1"=20'  
Project No. 10.2173  
Date 4/13/10  
CAD File: LL10L217301

**LANDSCAPE PLAN**

Sheet No. **LL-1**

THESE DRAWINGS SHALL NOT BE UTILIZED BY ANY PERSON, FIRM OR CORPORATION WITHOUT THE SPECIFIC WRITTEN PERMISSION OF BL COMPANIES

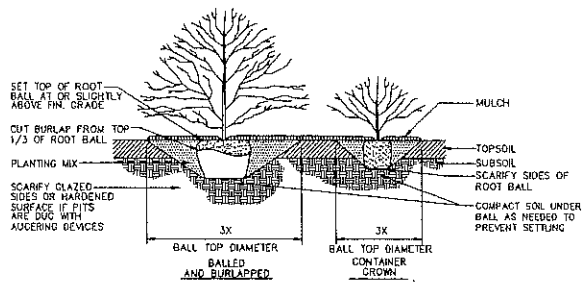


**NOTES:**

1. THIS DETAIL SHALL APPLY TO TREE PLANTING ON 3:1 V SLOPES OR STEEPER UNLESS OTHERWISE DIRECTED BY OWNER OR OWNER'S REPRESENTATIVE. DECIDUOUS TREES 2" X CAL OR GREATER, ALL EVERGREEN TREES 6 FT. OR GREATER, AND MULTI-STEMMED TREES 6 FT. OR GREATER IN HEIGHT SHALL BE STAKED AS SHOWN.
2. WOVEN POLYPROPYLENE STAKING MATERIAL SHALL BE DEEPROOT ARBORITE (GREEN) OR APPROVED EQUIVALENT. INSTALL SPECIFIED MATERIAL IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS.

**TREE SLOPE PLANTING**

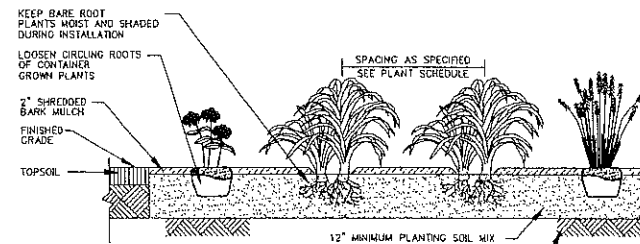
N.T.S. BLD-004



NOTE: \* IN AREAS OF MASS PLANTING, CONTINUOUSLY EXCAVATE AND MULCH ENTIRE BED.

**SHRUB PLANTING**

N.T.S. BLD-005



- NOTES:
1. ROTOTILL FERTILIZER, LIME, AND OTHER AMENDMENTS INTO SOIL PRIOR TO PLANTING AND IN ACCORDANCE WITH SOIL ANALYSIS RECOMMENDATIONS.
  2. THOROUGHLY WATER ALL PLANTING BEDS IMMEDIATELY AFTER PLANTING.
  3. ADJUST BULB PLANTING DEPTH AS RECOMMENDED BY BULB SUPPLIER.

**ANNUAL/PERENNIAL AND GROUNDCOVER BEDS**

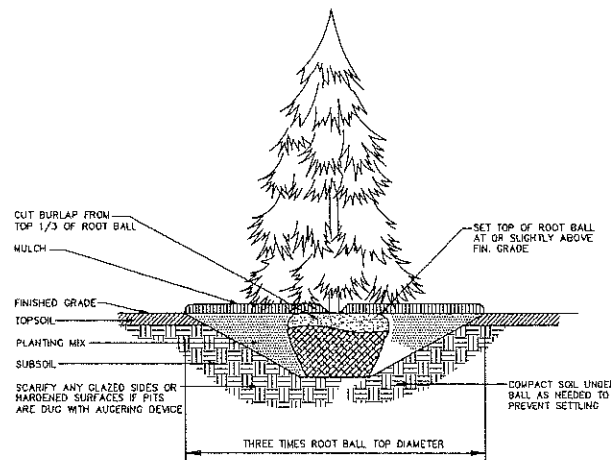
N.T.S. BLD-002

**SEEDING MIXTURES**

1. LAWN SEEDING MIXTURE - LOFTS SEED COMPANY OR APPROVED EQUAL.  
15% PERENNIAL RYEGRASS (BLEND OF 3 IMPROVED HYBRIDS)  
25% FINE LEAF OR CREEPING FESCUE (BLEND OF 3 IMPROVED HYBRIDS)  
60% KENTUCKY BLUEGRASS (BLEND OF 3 IMPROVED HYBRIDS)  
SEEDING RATE: 5 LBS./1000 S.F.  
SEEDING DATES: AUGUST 15 - OCTOBER 1 AND APRIL 15 - JUNE 15, UNLESS OTHERWISE APPROVED BY OWNER.
2. SLOPE SEEDING MIXTURE (3:1 SLOPES OR GREATER)  
CREEPING RED FESCUE (FESTUCA RUBRA) (42%)  
EXPRESS PERENNIAL RYEGRASS (LOLIUM PERENNE) (34%)  
BIRDFOOT TREFOIL (LOTUS CORNICULATUS VAR. ARVENSIS) (8%)  
ALSKA CLOVER (TRIFOLIUM HYBRIDUM) (8%)  
RED TOP (AGROSTIS GIGANTEA) (6%)  
LEGUMINOUS SEED TO BE INOCULATED  
PURE LIVE SEED: 96-98%  
APPLICATION RATE: 3 LBS./1000 S.F.  
FERTILIZER TYPE: 10-20-20  
FERTILIZER RATE OF APPLICATION: 400 LBS./ACRE  
LIMING RATE: 500 LBS./ACRE (PULVERIZED AGR. LIMESTONE)  
MULCH TYPE: WOOD CELLULOSE FIBER  
MULCH RATE: 1400 LBS./ACRE  
ANCHOR MATERIAL: EC5000 COPOLYMER TACKIFIER  
ANCHORING METHOD: SLURRY, MIX AND SPRAY  
ANCHORING RATE OF APPLICATION: 3 LBS./ACRE  
SEEDING SEASON DATES: MARCH 1-MAY 15 AND SEPT. 1-OCTOBER 15

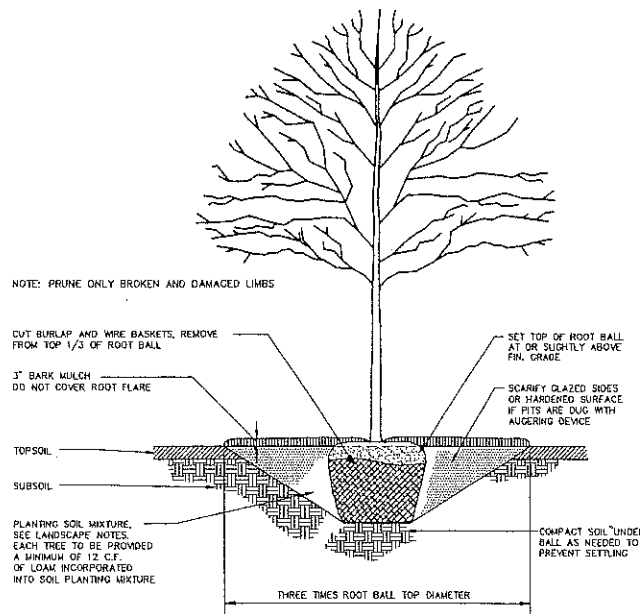
**LANDSCAPE NOTES**

1. THE LANDSCAPE PLAN AND DETAIL SHEET ARE FOR LANDSCAPING INFORMATION ONLY. REFER TO THE SITE LAYOUT PLAN, LIGHTING PLAN, GRADING PLAN AND UTILITIES PLAN FOR ALL OTHER INFORMATION.
2. PLANTING LOCATIONS ARE APPROXIMATE AND ARE SUBJECT TO FIELD ADJUSTMENT DUE TO UTILITY LOCATIONS AND SITE CONDITIONS. CONTRACTOR SHALL LAY OUT THE WORK FOR THE REVIEW, ADJUSTMENT, AND APPROVAL OF OWNER OR LANDSCAPE ARCHITECT PRIOR TO PLANTING.
3. UTILITY LOCATIONS SHOWN IN THE DRAWINGS ARE APPROXIMATE. EXERCISE CARE WHEN DIGGING IN AREAS OF POTENTIAL CONFLICT WITH UNDERGROUND OR OVERHEAD UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE DUE TO CONTRACTOR'S NEGLIGENCE AND SHALL REPLACE OR REPAIR ANY DAMAGE AT CONTRACTOR'S EXPENSE.
4. NO PLANT SHALL BE PLACED IN THE GROUND BEFORE ROUGH GRADING HAS BEEN COMPLETED.
5. TOPSOIL SHALL BE INSTALLED AT A MINIMUM DEPTH OF 4". CONTRACTOR SHALL SUBMIT SAMPLES OF TOPSOIL. THIS TOPSOIL SHALL NOT CONTAIN MATERIALS THAT ARE HARMFUL TO PLANT LIFE. IT MUST BE CLEAN, FERTILE, FRABLE, WELL DRAINING, NATURAL SANDY LOAM. ALL TOPSOIL TO BE FREE OF ANY SUBSOLIC EARTH CLODS, STICKS, STONES OVER 1" IN ANY DIMENSION, STICKS, ROOTS, WEEDS, LITTER, AND OTHER DELETERIOUS MATERIAL. TOPSOIL SHALL BE UNIFORM IN QUALITY AND TEXTURE AND CONTAIN ORGANIC MATTER AND MATERIAL ELEMENTS NECESSARY FOR SUSTAINING HEALTHY PLANT GROWTH.
  1. TOPSOIL SHALL HAVE THE FOLLOWING OPTIMUM RANGES UNLESS OTHERWISE APPROVED BY THE ENGINEER/OWNER:  
ORGANIC CONTENT (BY LOSS IGNITION @ 375 C. OF TESTING) 6.0 - 20% PH 6.0 - 8.0
  2. NUTRIENT LEVELS SHALL BE ACHIEVED BY THE CONTRACTOR'S ADDITION OF AMENDMENTS TO THE TOPSOIL TO MEET THE OPTIMUM NUTRIENT LEVELS SPECIFIED IN THE TESTING LABORATORY REPORT FOR EACH CROP/PLANT TO BE INSTALLED.
  3. PROPOSED TOPSOIL SHALL MEET THE USDA SOILS TEXTURAL CLASSIFICATION PERCENTAGES OF SAND, SILT AND CLAY FOR "SANDY LOAM" OR "LOAM" CLASSIFICATION.
  4. TOPSOIL SHALL BE COMPLETELY FREE OF TOXIC CHEMICAL HAZARDOUS WASTE, AND ANY MATERIAL OR CONDITION THAT WOULD PREVENT THE ESTABLISHMENT OF A SUITABLE LAWN. AMEND EXISTING TOPSOIL AS REQUIRED BY TOPSOIL TESTS. SUPPLEMENT WITH IMPORTED TOPSOIL WHEN REQUIRED.
6. THE CONTRACTOR SHALL SUPPLY ALL LABOR, PLANTS, AND MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE WORK SHOWN ON THE DRAWINGS AND LISTED IN THE PLANT SCHEDULE. WHEN QUANTITIES LISTED IN THE PLANT SCHEDULE DIFFER FROM THOSE REQUIRED BY THE DRAWINGS, THE LARGER QUANTITY SHALL BE USED.
7. LANDSCAPE PLANTING PITS MUST BE FREE DRAINING. PAVEMENT, COMPACTED SOIL, AND BLASTED ROCK SHALL BE REMOVED FROM PLANTING PITS AND LANDSCAPE ISLANDS TO A DEPTH OF 2" OR TO A GREATER DEPTH IF REQUIRED BY PLANTING DETAILS OR SPECIFICATIONS. REPLACE SOIL WITH ISLANDS WITH LOAM OR SANDY LOAM FREE OF STONES AND DEBRIS 1" OR GREATER IN DIAMETER AND ALL OTHER MATERIAL HARMFUL TO PLANT DEVELOPMENT.
8. PLANTING SOIL MIXTURE FOR ALL PLANTINGS SHALL CONSIST OF: 1 PART PEAT MOSS OR COMPOST, 3 PARTS TOPSOIL, "TRANSPLANT 1-STEP" FERTILIZER / BIOSTIMULANT / MYCORRHIZA INOCULATE AS MANUFACTURED BY ROOTS, INC. OR AN APPROVED EQUIVALENT, AND LIME AND OTHER AMENDMENTS AS INDICATED BY SOIL ANALYSIS.
9. PLANT REQUIREMENTS: ALL PLANTS SHALL CONFORM IN SIZE AND GRADE TO THE AMERICAN STANDARD FOR NURSERY STOCK AND Z601 (LATEST EDITION). ALL PLANTS SHALL MEET THE ADDITIONAL REQUIREMENTS SET FORTH BELOW AND IN WRITTEN SPECIFICATIONS AS APPLICABLE. ALL TREES AND SHRUBS SHALL HAVE BEEN GROWN AT A COMMERCIAL NURSERY WITHIN 200 MILES OF THE PROJECT SITE UNLESS OTHERWISE APPROVED BY OWNER OR LANDSCAPE ARCHITECT. THEY SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY. THEY SHALL BE HEALTHY, SYMMETRICAL, EVENLY AND DENSELY BRANCHED, AND DENSELY FOLIATED WHEN IN LEAF. THEY SHALL BE FREE OF BARK INJURY, DISEASE, AND INSECT PESTS. ALL TREES SHALL HAVE A STRAIGHT TRUNK WITH A SINGLE MAIN LEADER UNLESS OTHERWISE CHARACTERISTIC OF THE SPECIES OR VARIETY. THE OWNER OR LANDSCAPE ARCHITECT WILL ALLOW SUBSTITUTIONS ONLY UPON WRITTEN APPROVAL. SIZES SHALL CONFORM TO THE MEASUREMENT SPECIFIED ON THE DRAWINGS. PLANTS LARGER THAN SPECIFIED MAY BE USED IF APPROVED. THE USE OF SUCH PLANTS SHALL NOT INCREASE THE CONTRACT PRICE. ALL OVERSTORY TREES PLANTED ALONG PARKING AREAS, SIDEWALKS AND PEDESTRIAN ACCESSES SHALL NOT BRANCH BELOW 7' FEET IF THE TREE CALIPER IS 2 1/2" INCHES OR GREATER. ALL PLANT MATERIALS ARE SUBJECT TO INSPECTION AND ACCEPTANCE BY THE OWNER OR LANDSCAPE ARCHITECT AT THE NURSERY SOURCE. THE CONTRACTOR SHALL COORDINATE SOURCE VISITS WITH THE LANDSCAPE ARCHITECT AND SHALL ACCOMPANY THE OWNER AND/OR LANDSCAPE ARCHITECT FOR ALL INSPECTIONS. CERTIFICATES OF COMPLIANCE WITH SPECIFICATIONS ARE REQUIRED FOR ALL PLANTS.
10. ALL SHRUB BEDS SHALL BE MULCHED TO A DEPTH OF 3". ANNUAL AND PERENNIAL BEDS SHALL BE MULCHED TO A DEPTH OF 2". USE UNCOLORED, SHREDDED BARK MULCH AGED AT LEAST SIX MONTHS FOR ALL BEDS.
11. GUARANTEE: GUARANTEE ALL PLANTS AND LAWNS FOR A MINIMUM OF 1 YEAR TO BE ALIVE AND IN VIGOROUS GROWING CONDITION AT THE END OF THE GUARANTEE PERIOD. THE GUARANTEE PERIOD FOR ALL PLANTS SHALL BEGIN UPON APPROVAL AS SPECIFIED UNDER SEMI-FINAL ACCEPTANCE. PLANT MATERIALS AND LAWNS APPROVED IN THE SPRING SHALL BE ALIVE AND IN SATISFACTORY GROWTH ON JUNE 1 OF THE FOLLOWING YEAR. PLANTING DONE IN LATE FALL (AFTER NOVEMBER 1ST) SHALL BE MAINTAINED AND GUARANTEED UNTIL THE SECOND SPRING'S LEAFING. REPLACEMENTS: ALL PLANTS SHALL BE FREE OF DEAD OR DYING BRANCHES AND BRANCH TIPS, AND SHALL BEAR FOLIAGE OF A NORMAL DENSITY, SIZE AND COLOR. PROMPTLY REMOVE DEAD, UNSIGHTLY, UNHEALTHY, OR EXCESSIVELY PRUNED PLANTS. THESE AND ANY PLANTS MISSING DUE TO THE CONTRACTOR'S NEGLIGENCE, SHALL BE REPLACED OR ADDED WITH THE SAME KIND AND SIZE AS ORIGINALLY SPECIFIED AS SOON AS CONDITIONS PERMIT. METHOD OF REPLACEMENT SHALL BE THE SAME AS SPECIFIED FOR THE ORIGINAL PLANTING WITH REPLACEMENTS MATCHING ADJACENT SPECIMENS OF THE SAME SPECIES. REPLACEMENTS SHALL BE MADE AS MANY TIMES AS NECESSARY TO ENSURE HEALTHY PLANTS AND THEY SHALL BE MAINTAINED AND GUARANTEED. REPLACEMENTS SHALL BE MADE AT THE CONTRACTOR'S EXPENSE AND SHALL BE GUARANTEED FOR ONE FULL YEAR FROM TIME OF REPLACEMENT.
12. ALL SLOPES STEEPER THAN 3:1 RECEIVING A GRASS SEEDING MIXTURE SHALL BE COVERED WITH AN EROSION CONTROL BLANKET OF STRAW FIBER AND BIODEGRADABLE OR PHOTODEGRADABLE NETTING.
13. UNLESS OTHERWISE NOTED IN DRAWING SET, NEW TREELINES SHALL EQUAL CLEARING AND GRUBBING LIMITS.
14. IF SHEET IS LESS THAN 24" X 36," IT IS A REDUCED PRINT AND SHOULD BE SCALED ACCORDINGLY.



**EVERGREEN TREE PLANTING WITHOUT GUY WIRES**

N.T.S. BLD-010



**TREE PLANTING**

N.T.S. BLD-009



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PROPOSED CELL TOWER  
GREENWOOD DRIVE  
TOWN OF AVON, CONNECTICUT

DESIGNED: J.W.F.  
DRAWN: J.W.F.  
CHECKED: J.W.F.  
SCALE: N.T.S.  
PROJECT NO.: 10.2173  
DATE: 4/13/10  
CAD FILE: LL10L217301

TITLE  
LANDSCAPE  
DETAILS  
AND NOTES

SHEET NO.

LL-3