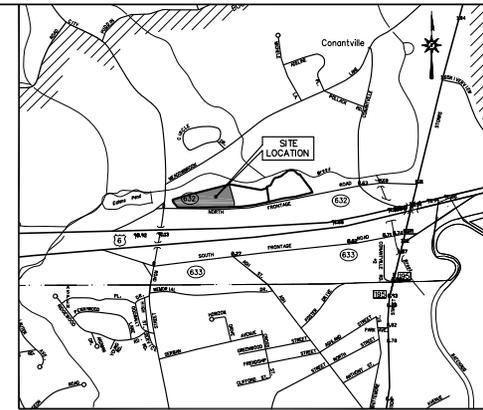


LOCATION MAP  
N.T.S.

# APPLICATION FOR SPECIAL PERMIT AND INLAND WETLANDS AGENCY OF THE TOWN OF MANSFIELD



VICINITY MAP  
SCALE: 1"=1000'

## PROPOSED OFFICE BUILDING NORTH FRONTAGE ROAD MANSFIELD, TOLLAND COUNTY, CT

PREPARED FOR:  
**UNITED SERVICES, INC.**  
1007 NORTH MAIN STREET  
P.O. BOX 839  
DAYVILLE, CT 06241

PREPARED BY:



ARCHITECTURE ENGINEERING PLANNING LANDSCAPE ARCHITECTURE  
LAND SURVEYING ENVIRONMENTAL SCIENCES

355 RESEARCH PARKWAY  
MERIDEN, CONNECTICUT 06450  
(203) 630-1406  
(203) 630-2615 Fax

**FOR PERMITTING PURPOSES ONLY  
NOT RELEASED FOR CONSTRUCTION**

DEVELOPER:  
KEVIN TUBRIDY  
25 LEDGEBROOK DRIVE  
MANSFIELD, CT 06250  
(860) 423-0334

OWNER:  
UNITED SERVICES, INC.  
1007 NORTH MAIN STREET, P.O. BOX 839  
DAYVILLE, CT 06241-0839  
(860) 774-2020

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### DATES

DATE: JUNE 27, 2011  
REVISION:

## GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL SITE AND BUILDING CONDITIONS IN THE FIELD AND CONTACT THE SITE ENGINEER AND ARCHITECT IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS PRIOR TO CONSTRUCTION.
2. DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER AND THE LOCAL MUNICIPALITIES. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE HAS BEEN PROVIDED.
3. THE CONTRACTOR SHALL ABIDE BY ALL OSHA FEDERAL STATE AND LOCAL REGULATIONS WHEN OPERATING CRANES, BOOMS, HOSTS, ETC. IN CLOSE PROXIMITY TO OVERHEAD ELECTRIC LINES. IF CONTRACTOR MUST OPERATE EQUIPMENT CLOSE TO ELECTRIC LINES, CONTACT POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS. ANY UTILITY COMPANY FEES SHALL BE PAID FOR BY THE CONTRACTOR.
4. THE CONTRACTOR SHALL PROVIDE RECORD DRAWINGS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES) TO THE OWNER AT THE END OF CONSTRUCTION.
5. THE ARCHITECT OR ENGINEER IS NOT RESPONSIBLE FOR SITE SAFETY MEASURES TO BE EMPLOYED DURING CONSTRUCTION. THE ARCHITECT AND ENGINEER HAVE NO CONTRACTUAL DUTY TO CONTROL THE SAFEST METHODS OR MEANS OF THE WORK, JOB SITE RESPONSIBILITIES, SUPERVISION OR TO SUPERVISE SAFETY AND DOES NOT VOLUNTARILY ASSUME ANY SUCH DUTY OR RESPONSIBILITY.
6. INFORMATION ON EXISTING UTILITIES AND STORM DRAINAGE SYSTEMS HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY COMPANY AND MUNICIPAL RECORD MAPS AND/OR FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES AND STORM DRAINAGE SYSTEMS ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND STORM DRAINAGE SYSTEMS INCLUDING SERVICES. PRIOR TO DEMOLITION OR CONSTRUCTION, THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" 72 HOURS BEFORE COMMENCEMENT OF WORK AT (800) 922-4455 AND VERIFY ALL UTILITY AND STORM DRAINAGE SYSTEM LOCATIONS.
7. DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN OVER SCALED DIMENSIONS.
8. IF PLANS AND OR SPECIFICATIONS ARE IN CONFLICT, THE MOST COSTLY SHALL APPLY.
9. ALL CONTRACTORS AND SUBCONTRACTORS SHALL OBTAIN COMPLETE DRAWING PLAN SETS FOR BIDDING AND CONSTRUCTION. PLAN SETS SHALL NOT BE DISASSEMBLED INTO PARTIAL PLAN SETS FOR USE BY CONTRACTORS AND SUBCONTRACTORS OF INDIVIDUAL TRADES. IT SHALL BE THE CONTRACTOR'S AND SUBCONTRACTOR'S RESPONSIBILITY TO OBTAIN COMPLETE PLAN SETS FOR USE IN BIDDING AND CONSTRUCTION.
10. ALL NOTES AND DIMENSIONS DESIGNATED TYPICAL APPLY TO ALL LIKE OR SIMILAR CONDITIONS THROUGHOUT THE PROJECT.
11. CONTRACTOR(S) TO TAKE AND VERIFY ALL DIMENSIONS AND CONDITIONS OF THE WORK AND BE RESPONSIBLE FOR COORDINATION OF SAME. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK.
12. THESE PLANS ARE FOR PERMITTING PURPOSES ONLY AND ARE NOT FOR CONSTRUCTION. NO CONSTRUCTION OR DEMOLITION SHALL BEGIN UNTIL APPROVAL OF THE FINAL PLANS IS GRANTED BY ALL GOVERNING AND REGULATORY AGENCIES.
13. THE CONTRACTOR SHALL COMPLY WITH CFR29 PART 1926 FOR EXCAVATION TRENCHING AND TRENCH PROTECTION REQUIREMENTS.

## SITE PLAN NOTES

1. ALL CONSTRUCTION SHALL COMPLY WITH PROJECT SPECIFICATION MANUAL AND TOWN OF MANSFIELD STANDARDS AND CONNECTICUT DEPARTMENT OF TRANSPORTATION SPECIFICATIONS AND STANDARDS IN THE ABOVE REFERENCED INCREASING HIERARCHY. IF SPECIFICATIONS ARE IN CONFLICT, THE MORE STRINGENT SPECIFICATION SHALL APPLY. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE OSHA, FEDERAL, STATE AND LOCAL REGULATIONS.
2. THE OWNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY ZONING PERMITS REQUIRED BY GOVERNMENT AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN TOWN CONSTRUCTION PERMITS INCLUDING SEWER AND WATER CONNECTION PERMITS. THE CONTRACTOR SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THE WORK.
3. REFER TO DETAILS AND PROJECT MANUAL FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND CONTACT THE CIVIL ENGINEER IF THERE ARE ANY QUESTIONS OR CONFLICTS REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS SO THAT APPROPRIATE REVISIONS CAN BE MADE PRIOR TO BIDDING. ANY CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE CONFIRMED WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO BIDDING.
4. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRODUCTS AND MATERIALS PER PLANS AND SPECIFICATIONS TO THE OWNER AND CIVIL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR DELIVERY TO THE SITE. ALLOW A MINIMUM OF 14 WORKING DAYS FOR REVIEW.
5. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF CONSTRUCTION NOTES PROVIDED ON THE EROSION CONTROL PLAN.
6. THE CONTRACTOR SHALL REFERENCE ARCHITECTURAL PLANS BY OTHERS FOR EXACT DIMENSIONS AND CONSTRUCTION DETAILS OF BUILDING AND THE RAISED CONCRETE SIDEWALKS AND RAMPS.
7. SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED, EXISTING PIPING OR OTHER UTILITY BE UNCOVERED DURING EXCAVATION, CONSULT THE CIVIL ENGINEER IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH WORK IN THIS AREA.
8. DO NOT INTERRUPT EXISTING UTILITIES SERVICING FACILITIES OCCUPIED AND USED BY THE OWNER OR OTHERS DURING OCCUPIED HOURS EXCEPT WHEN SUCH INTERRUPTIONS HAVE BEEN AUTHORIZED IN WRITING BY THE OWNER AND THE LOCAL MUNICIPALITIES. INTERRUPTIONS SHALL ONLY OCCUR AFTER ACCEPTABLE TEMPORARY SERVICE HAS BEEN PROVIDED.
9. ALL SITE DIMENSIONS ARE REFERENCED TO THE FACE OF CURBS OR EDGE OF PAVING AS APPLICABLE UNLESS OTHERWISE NOTED. ALL BUILDING DIMENSIONS ARE REFERENCED TO THE OUTSIDE FACE OF THE STRUCTURE.
10. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC DEVICES FOR PROTECTION OF VEHICLES AND PEDESTRIANS CONSISTING OF DRUMS, BARRIERS, SIGNS, LIGHTS, FENCES, TRAFFIC CONTROLLERS AND UNIFORMED TRAFFIC OFFICERS AS REQUIRED OR AS ORDERED BY THE ENGINEER OR AS REQUIRED BY THE LOCAL GOVERNING AUTHORITIES OR AS REQUIRED BY PERMIT STIPULATIONS.
11. REFER TO DETAIL SHEETS FOR PAVEMENT, CURBING, AND SIDEWALK INFORMATION.
12. TRAFFIC CONTROL SIGNAGE SHALL CONFORM TO THE STATE DOT STANDARD DETAIL SHEETS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. SIGNS SHALL BE INSTALLED PLUMB WITH THE EDGE OF THE SIGN 2" OFF THE FACE OF THE CURB AND WITH 7" VERTICAL CLEARANCE UNLESS OTHERWISE DETAILED OR NOTED.
13. THE CONTRACT LIMIT IS THE PROPERTY LINE UNLESS OTHERWISE SPECIFIED OR SHOWN ON THE CONTRACT DRAWINGS.
14. THE CONTRACTOR SHALL ABIDE BY ALL OSHA FEDERAL STATE AND LOCAL REGULATIONS WHEN OPERATING CRANES, BOOMS, HOSTS, ETC. IN CLOSE PROXIMITY TO OVERHEAD ELECTRIC LINES. IF CONTRACTOR MUST OPERATE EQUIPMENT CLOSE TO ELECTRIC LINES, CONTACT POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS. ANY UTILITY COMPANY FEES SHALL BE PAID FOR BY THE CONTRACTOR.
15. THE CONTRACTOR SHALL SUBMIT A SHOP DRAWING OF THE PAVEMENT MARKING PAINT MIXTURE PRIOR TO STRIPING.
17. PARKING SPACES SHALL BE STRIPED WITH 4" SWL HATCHED AREA SHALL BE STRIPED WITH 4" SWL AT A 45° ANGLE, 2" ON CENTER. HATCHING, SYMBOLS, AND STRIPING FOR HANDICAPPED SPACES SHALL BE PAINTED BLUE. OTHER MARKINGS SHALL BE PAINTED WHITE OR AS NOTED.
18. THE CONTRACTOR SHALL RESTORE ANY DRAINAGE STRUCTURE, PIPE, UTILITY, PAVEMENT CURBS, SIDEWALKS, LANDSCAPED AREAS OR SIGNAGE DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER, AS APPROVED BY THE CIVIL ENGINEER.
19. THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES) TO THE OWNER AT THE END OF CONSTRUCTION.
20. THE ARCHITECT AND ENGINEER ARE NOT RESPONSIBLE FOR SITE SAFETY MEASURES TO BE EMPLOYED DURING CONSTRUCTION. THE ARCHITECT AND ENGINEER HAVE NO CONTRACTUAL DUTY TO CONTROL THE SAFEST METHODS OR MEANS OF THE WORK, JOB SITE RESPONSIBILITIES, SUPERVISION OR TO SUPERVISE SAFETY AND DOES NOT VOLUNTARILY ASSUME ANY SUCH DUTY OR RESPONSIBILITY.
21. THE CONTRACTOR SHALL COMPLY WITH CFR 29 PART 1926 FOR EXCAVATION TRENCHING AND TRENCH PROTECTION REQUIREMENTS.
22. EXISTING BOUNDARY AND TOPOGRAPHY IS BASED ON DRAWING TITLED "TOPOGRAPHIC SURVEY - NORTH FRONTAGE ROAD" NORTH FRONTAGE ROAD, MANSFIELD, CT. DATED 5/23/05, SCALE 1"=60', PREPARED FOR KEVIN TURBROV, JOB #207008 BY DALTM ENGINEERING.
23. ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED BY THE OWNER, CIVIL ENGINEER, AND APPROPRIATE REGULATORY AGENCY PRIOR TO INSTALLATION DURING THE BIDDING PROCESS.
24. INFORMATION ON EXISTING UTILITIES AND STORM DRAINAGE SYSTEMS HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY PROVIDER AND MUNICIPAL RECORD MAPS AND/OR FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES AND STORM DRAINAGE SYSTEMS ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND STORM DRAINAGE SYSTEMS INCLUDING SERVICES. PRIOR TO DEMOLITION OR CONSTRUCTION, THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" 72 HOURS BEFORE COMMENCEMENT OF WORK AT (800) 922-4455 AND VERIFY ALL UTILITY AND STORM DRAINAGE SYSTEM LOCATIONS.
25. PAVEMENT MARKINGS SHALL BE HOT APPLIED TYPE IN ACCORDANCE WITH CONDOT SPECIFICATIONS, UNLESS WHERE EPOXY RESIN PAVEMENT MARKINGS ARE INDICATED.
26. THESE PLANS ARE FOR PERMITTING PURPOSES ONLY AND ARE NOT FOR CONSTRUCTION.
27. NO CONSTRUCTION OR DEMOLITION SHALL BEGIN UNTIL APPROVAL OF THE FINAL PLANS IS GRANTED BY ALL GOVERNING AND REGULATORY AGENCIES.
28. THE PROJECT PARCEL IS LOCATED PARTLY WITHIN A FEMA DESIGNATED FLOOD HAZARD AREA.
29. THERE ARE WETLANDS LOCATED ON THE SITE.
30. FIRE LANES SHALL BE ESTABLISHED AND PROPERLY DESIGNATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FIRE DISTRICT FIRE MARSHAL.
31. THE CONTRACTOR SHALL REMOVE CONFLICTING PAVEMENT MARKINGS IN THE STATE HIGHWAY BY METHOD APPROVED BY CONDOT.
32. CONDOT ENCROACHMENT PERMIT SHALL BE OBTAINED BY CONTRACTOR WHO SHALL POST ALL BONDS, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC PROTECTION NECESSARY FOR THE WORK. THE OWNER SHALL POST CONDOT ENCROACHMENT PERMIT BOND.



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ARCHITECTURE  
PLANNING  
LANDSCAPE ARCHITECTURE  
LAND SURVEYING  
ENVIRONMENTAL SCIENCES

PROPOSED OFFICE BUILDING  
NORTH FRONTAGE ROAD  
MANSFIELD, TOLLAND COUNTY, CONNECTICUT

REVISED	By	Date

Design	B.S.S.
Drawn	B.S.S.
Checked	
Approved	
Scale	NO SCALE
Project No.	11C3816
Date	08/27/11
CAD File	GN11C381601

Title  
GENERAL  
NOTES

Sheet No.

FOR PERMITTING PURPOSES ONLY  
NOT RELEASED FOR CONSTRUCTION

DATE: 08/11/11 10:27:00 AM  
DRAWN BY: J. VANDERKAM  
CHECKED BY: J. VANDERKAM  
DATE: 08/11/11 10:27:00 AM

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

REVISED: 11C381601 : 11C381602 : 11C381603 : 11C381604

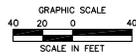
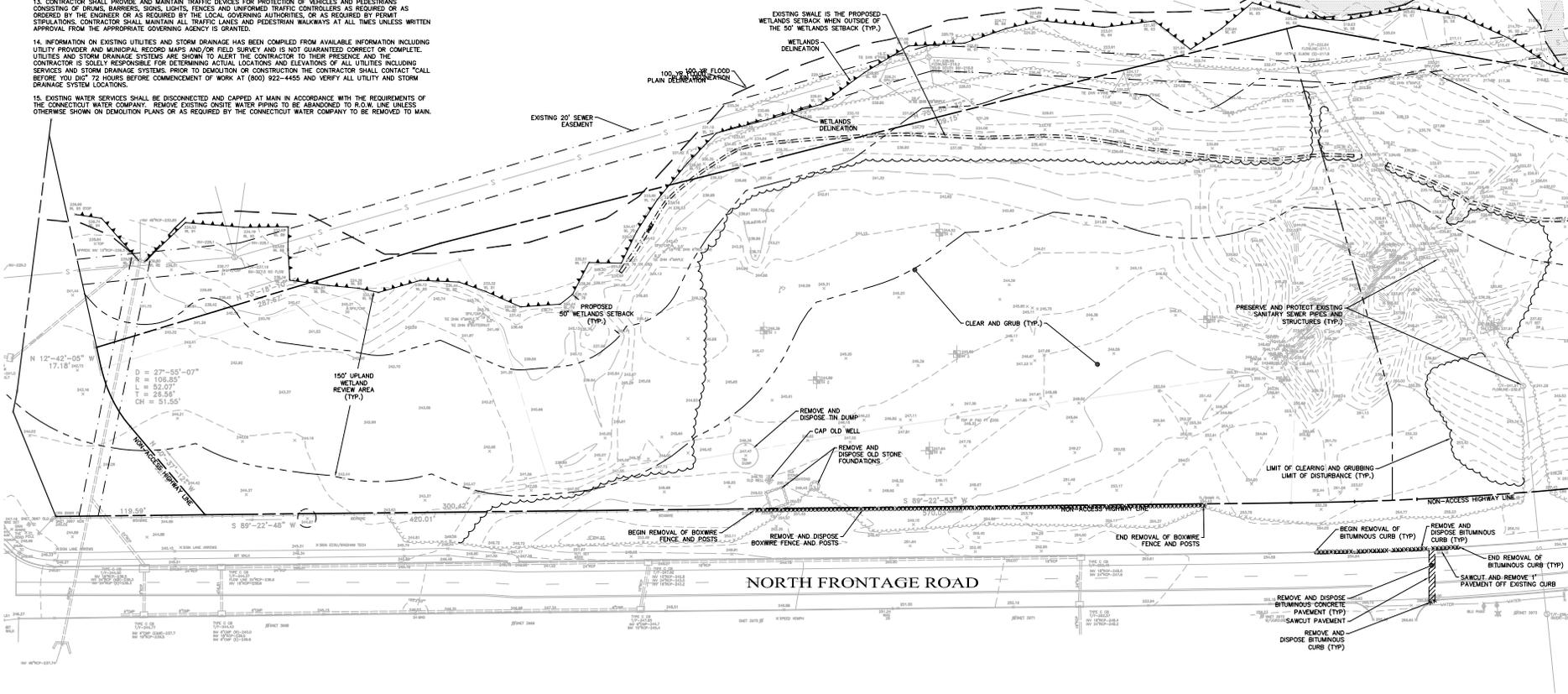
**DEMOLITION NOTES**

1. ALL FOUNDATIONS AND SLABS INDICATED ON THIS PLAN ARE TO BE REMOVED FROM SITE. CONTRACTOR SHALL SECURE ANY PERMITS, PAY ALL FEES AND PERFORM CLEARING AND GRUBBING AND DEBRIS REMOVAL PRIOR TO COMMENCEMENT OF GRADING OPERATIONS.
2. SEDIMENT AND EROSION CONTROLS AS SHOWN ON THE SEDIMENT AND EROSION CONTROL PLAN AND/OR DEMOLITION PLAN SHALL BE INSTALLED BY THE DEMOLITION CONTRACTOR TO START OF DEMOLITION AND CLEARING AND GRUBBING OPERATIONS.
3. REMOVE AND DISPOSE OF ANY SIDEWALKS, FENCES, STAIRS, WALLS, DEBRIS AND RUBBISH REQUIRING REMOVAL FROM THE WORK AREA IN AN APPROVED OFF-SITE LANDFILL, BY AN APPROVED HAULER. HAULER SHALL COMPLY WITH ALL REGULATORY REQUIREMENTS.
4. THE CONTRACTOR SHALL SECURE ALL PERMITS FOR HIS DEMOLITION AND DISPOSAL OF HIS DEMOLITION MATERIAL TO BE REMOVED FROM THE SITE. THE CONTRACTOR SHALL POST BONDS AND PAY PERMIT FEES AS REQUIRED. BUILDING DEMOLITION CONTRACTOR SHALL BE RESPONSIBLE FOR PERMITS AND DISPOSAL OF ALL BUILDING DEMOLITION DEBRIS IN AN APPROVED OFF-SITE LANDFILL.
5. ASBESTOS OR HAZARDOUS MATERIAL, IF FOUND ON SITE, SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIAL CONTRACTOR.
6. THE CONTRACTOR SHALL PREPARE ALL MANIFEST DOCUMENTS AS REQUIRED PRIOR TO COMMENCEMENT OF DEMOLITION.
7. THE CONTRACTOR SHALL CUT AND PLOG OR ARRANGE FOR THE APPROPRIATE UTILITY PROVIDER TO CUT AND PLOG ALL SERVICE PIPING AT THE STREET LINE OR AT THE MAIN, AS REQUIRED, BY THE UTILITY PROVIDER, OR AS OTHERWISE NOTED OR SHOWN ON THE CONTRACT. ALL SERVICES MAY BE SHOWN ON THIS PLAN. THE CONTRACTOR SHALL INVESTIGATE THE SITE PRIOR TO BRIDGING TO DETERMINE THE EXTENT OF SERVICE PIPING TO BE REMOVED, CUT OR PLOGGED. THE CONTRACTOR SHALL PAY ALL UTILITY PROVIDER FEES FOR AMENDMENTS AND REPAIRS.
8. THE CONTRACTOR SHALL PROTECT ALL IRON PINS, MONUMENTS AND PROPERTY CORNERS DURING DEMOLITION ACTIVITIES. ANY CONTRACTOR DISTURBED PINS, MONUMENTS, AND/OR PROPERTY CORNERS, ETC. SHALL BE RESET BY A LICENSED LAND SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.
9. THE DEMOLITION CONTRACTOR SHALL STABILIZE THE SITE AND KEEP EROSION CONTROL MEASURES IN PLACE UNTIL THE COMPLETION OF HIS WORK OR UNTIL THE COMMENCEMENT OF WORK BY THE SITE CONTRACTOR, WHICHEVER OCCURS FIRST, AS REQUIRED OR DEMAND NECESSARY BY THE ENGINEER OR OWNER'S REPRESENTATIVE. THE SITE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE MAINTENANCE OF EXISTING EROSION AND SEDIMENTATION CONTROLS AND FOR INSTALLATION OF ANY NEW EROSION AND SEDIMENTATION CONTROLS AS PER THE SEDIMENT AND EROSION CONTROL PLAN, AT THAT TIME.
10. THE CONTRACTOR SHALL PUMP OUT BUILDING FUEL AND WASTE OIL TANKS (IF ANY ARE ENCOUNTERED) AND REMOVE FUEL TO AN APPROVED DISPOSAL AREA BY A LICENSED WASTE OIL HANDLING CONTRACTOR IN STRICT ACCORDANCE WITH STATE REQUIREMENTS.
11. IF IMPACTED OR CONTAMINATED SOIL IS ENCOUNTERED BY THE CONTRACTOR, THE CONTRACTOR SHALL SUSPEND EXCAVATION WORK OF IMPACTED SOIL AND NOTIFY THE OWNER AND/OR OWNER'S ENVIRONMENTAL CONSULTANT PRIOR TO PROCEEDING WITH FURTHER WORK IN THE IMPACTED SOIL LOCATION UNTIL FURTHER INSTRUCTED BY THE OWNER AND/OR OWNER'S ENVIRONMENTAL CONSULTANT.
12. THE CONTRACTOR SHALL ADHERE TO ALL OSHA FEDERAL STATE AND LOCAL REGULATIONS WHEN OPERATING CRANES, BOOMS, HOSTS, ETC. IN PROXIMITY OF OVERHEAD ELECTRIC LINES. IF CONTRACTOR MUST OPERATE EQUIPMENT CLOSE TO ELECTRIC LINES CONTACT POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS. ANY UTILITY PROVIDER FEES SHALL BE PAID BY THE CONTRACTOR.
13. CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC DEVICES FOR PROTECTION OF VEHICLES AND PEDESTRIANS CONSISTING OF DRUMS, BARRIERS, SIGNS, LIGHTS, FENCES AND UNIFORMED TRAFFIC CONTROLLERS AS REQUIRED OR AS ORDERED BY THE ENGINEER OR AS REQUIRED BY THE LOCAL GOVERNING AUTHORITIES, OR AS REQUIRED BY PERMIT REGULATIONS. CONTRACTOR SHALL MAINTAIN ALL TRAFFIC LANES AND PEDESTRIAN WALKWAYS AT ALL TIMES UNLESS WRITTEN APPROVAL FROM THE APPROPRIATE GOVERNING AGENCY IS GRANTED.
14. INFORMATION ON EXISTING UTILITIES AND STORM DRAINAGE HAS BEEN OBTAINED FROM AVAILABLE INFORMATION INCLUDING UTILITY PROVIDER AND MUNICIPAL RECORD MAPS AND/OR FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES AND STORM DRAINAGE SYSTEMS ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE AND THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES INCLUDING SERVICES AND STORM DRAINAGE SYSTEMS. PRIOR TO DEMOLITION OR CONSTRUCTION THE CONTRACTOR SHALL CONTACT LOCAL BEFORE YOU DIG, 72 HOURS BEFORE COMMENCEMENT OF WORK AT (800) 922-1455 AND VERIFY ALL UTILITY AND STORM DRAINAGE SYSTEM LOCATIONS.
15. EXISTING WATER SERVICES SHALL BE DISCONNECTED AND CAPPED AT MAIN IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONNECTICUT WATER COMPANY. REMOVE EXISTING ON-SITE WATER PIPING TO BE ABANDONED TO P.W. LINE UNLESS OTHERWISE SHOWN ON DEMOLITION PLANS OR AS REQUIRED BY THE CONNECTICUT WATER COMPANY TO BE REMOVED TO MAIN.

16. THE CONTRACTOR IS RESPONSIBLE FOR SECURING A DEMOLITION PERMIT FROM THE TOWN OF MANSFIELD BUILDING DEPARTMENT AND MUST FURNISH THE REQUIRED APPLICATION MATERIAL AND PAY ALL FEES.
17. BACK FILL DEPRESSIONS, FOUNDATION HOLES AND REMOVED DRIVEWAY AREAS IN LOCATIONS NOT SUBJECT TO FURTHER EXCAVATION WITH SOIL MATERIAL APPROVED BY THE OWNER'S GEOTECHNICAL ENGINEER AND COMPACT, FERTILIZE, SEED AND MULCH DISTURBED AREAS NOT SUBJECT TO FURTHER SITE CONSTRUCTION. BUILDING FOUNDATION AREA TO BE BACK FILLED IN 8" LIFTS WITH GRAVEL OR MATERIAL SPECIFIED IN THE PROJECT GEOTECHNICAL REPORT. COMPACT TO 95% MAX. DRY DENSITY PER ASTM D1557 AT 2% OF OPTIMUM MOISTURE CONTENT. EMPLOY WATERING EQUIPMENT FOR DUST CONTROL.
18. THE CONTRACTOR SHALL REPAIR PAVEMENTS BY INSTALLING TEMPORARY AND PERMANENT PAVEMENTS IN PUBLIC RIGHTS OF WAYS AS REQUIRED BY LOCAL GOVERNING AUTHORITIES AND THE STATE AND PER PERMIT REQUIREMENTS DUE TO DEMOLITION AND PIPE REMOVAL ACTIVITIES.
19. THE CONTRACTOR SHALL RESTORE ANY UTILITY STRUCTURE, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, DRAINAGE STRUCTURE, SWALE OR LANDSCAPED AREAS DISTURBED DURING DEMOLITION TO THEIR ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE OWNER AND/OR TOWN OF MANSFIELD.
20. THE EXISTING PAVEMENT MAY BE USED IN FILL AREAS, EXCEPT UNDER THE PROPOSED BUILDING AREA AND IN AREAS OF SELECT FILL, IF SCARIFIED AND BROKEN TO 3" MAXIMUM SIZE AND SMALLER AND AS APPROVED BY THE GEOTECHNICAL ENGINEER.
21. NO WORK ON THIS SITE SHALL BE INITIATED BY THE CONTRACTOR UNTIL A PRE-CONSTRUCTION MEETING WITH OWNER AND THE CIVIL ENGINEER IS PERFORMED. THE CONTRACTOR SHOULD BE AWARE OF ANY SITE INFORMATION AVAILABLE SUCH AS GEOTECHNICAL AND ENVIRONMENTAL REPORTS. THE CONTRACTOR SHALL HAVE MARK OUTS OF EXISTING UTILITIES COMPLETED PRIOR TO MEETING.
22. THE CONTRACTOR SHALL ARRANGE FOR AND INSTALL TEMPORARY OR PERMANENT UTILITY CONNECTIONS WHERE INDICATED ON PLAN OR AS REQUIRED. MAINTAIN UTILITY SERVICES TO BUILDINGS TO REMAIN. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDERS FOR INSTALLATION AND PAY UTILITY PROVIDER FEES.
23. THE CONTRACTOR SHALL NOT COMMENCE DEMOLITION OR UTILITY DISCONNECTIONS UNTIL AUTHORIZED TO DO SO BY THE OWNER.
24. THE CONTRACTOR OR DEMOLITION CONTRACTOR SHALL INSTALL TEMPORARY SHEETING OR SHORING AS NECESSARY TO PROTECT EXISTING AND NEW BUILDINGS AND UTILITIES DURING CONSTRUCTION AND DEMOLITION. SHEETING OR SHORING SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER, LICENSED IN THIS STATE AND EVIDENCE OF SUCH SUBMITTED TO THE OWNER PRIOR TO INSTALLATION.
25. NO SALVAGE SHALL BE PERMITTED UNLESS PAID TO THE OWNER AS A CREDIT.
26. ANY EXISTING POTABLE WELL AND ANY EXISTING SEPTIC TANKS/ABSORPTION AREAS SHALL BE ABANDONED AND REMOVED PER THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AND HEALTH CODE REQUIREMENTS.
27. ARCHITECT OR ENGINEER IS NOT RESPONSIBLE FOR SITE SAFETY MEASURES TO BE EMPLOYED DURING CONSTRUCTION. THE ARCHITECT AND ENGINEER HAS NO CONTRACTUAL DUTY TO CONTROL THE SAFEST METHODS OR MEANS OF THE WORK. JOBSITE RESPONSIBILITIES, SUPERVISION OR TO SUPERVISE SAFETY, AND DOES NOT VOLUNTARILY ASSUME ANY SUCH DUTY OR RESPONSIBILITY.
28. THE CONTRACTOR SHALL COMPLY WITH CFR29 PART 1926 FOR EXCAVATION, TRENCHING, AND TRENCH PROTECTION REQUIREMENTS.

**LEGEND**

- SAWTOOTH LINE
- ~ LIMIT OF CLEARING & GRUBBING LIMIT OF DISTURBANCE
- REMOVE AND DISPOSE CURB & FENCE
- ▨ REMOVE AND DISPOSE BITUMINOUS CONCRETE PAVEMENT



**FOR PERMITTING PURPOSES ONLY  
NOT RELEASED FOR CONSTRUCTION**



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**PROPOSED OFFICE BUILDING**  
NORTH FRONTAGE ROAD  
MANSFIELD, TOLLAND COUNTY, CONNECTICUT

Desig. 8KB  
Drawn 8KB  
Checked  
Approved  
Scale 1"=40'  
Project No. 11C3816  
Date 06/27/11  
CAD File: DM11C381601  
Title DEMOLITION PLAN  
Sheet No. DM-1

DATE: 06/27/11 10:52 AM  
DRAWN BY: J. BENTON  
CHECKED BY: J. BENTON  
APPROVED BY: J. BENTON  
SCALE: 1"=40'  
PROJECT NO.: 11C3816  
DATE: 06/27/11  
CAD FILE: DM11C381601

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# GRADING AND DRAINAGE NOTES

- SEE SHEET ON-1 FOR ADDITIONAL GENERAL NOTES.
- THIS DRAWING IS INTENDED TO DESCRIBE GRADING AND DRAINAGE ONLY. REFER TO SITE PLAN FOR GENERAL INFORMATION, SITE UTILITY PLAN FOR UTILITIES, AND DETAIL SHEETS FOR DETAILS. SEE MEP DRAWINGS AND FOUNDATION DRAWINGS (IF OTHERS) FOR BUILDING CONNECTION LOCATIONS AND DETAILS.
- THE CONTRACTOR SHALL PRESERVE EXISTING VEGETATION WHERE POSSIBLE AND/OR AS NOTED ON DRAWINGS. REFER TO EROSION CONTROL PLAN FOR LIMIT OF DISTURBANCE AND EROSION CONTROL NOTES.
- TOPSOIL SHALL BE STRIPPED AND STOCKPILED ON SITE FOR USE IN FINAL LANDSCAPING.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSTRUCTION PERMITS REQUIRED BY GOVERNMENT AND LOCAL AGENCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMISSION FROM THE TOWN OF MANSFIELD AND CONNECTICUT DEPARTMENT OF TRANSPORTATION REQUIRED TO PERFORM ALL REQUIRED WORK, INCLUDING FOR STREET CUTS AND CONNECTIONS TO EXISTING UTILITIES. THE CONTRACTOR SHALL POST ALL BONDS, EXCEPT CONNECTICUT DOT ENFORCEMENT PERMIT BOND, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC DEVICES FOR PROTECTION OF VEHICLES AND PEDESTRIANS CONSISTING OF BARRIERS, SIGNS, LIGHTS, FENCES AND UNIFORMED TRAFFIC CONTROLLERS AS REQUIRED, ORDERED BY THE ENGINEER OR REQUIRED BY THE STATE AND LOCAL GOVERNING AUTHORITIES.
- ANY FILL WITHIN FORMER BUILDING FOUNDATION SHALL BE CHECKED BY TEST PIT AND PROOF-ROLLING AND SHALL BE OBSERVED BY THE OWNER'S GEOTECHNICAL ENGINEER. SUBGRADE SHALL BE FORMED WITH REMOVAL AND REPLACEMENT OF FILL AND REMOVAL AND REPLACEMENT OF SOFT SUBGRADE MATERIAL AS ORDERED BY THE GEOTECHNICAL ENGINEER. SEE GEOTECHNICAL REPORT AND EARTHWORK SPECIFICATIONS FOR FURTHER DESCRIPTION.
- THE CONTRACTOR SHALL COMPACT FILL IN 8" MAXIMUM LIFTS UNDER ALL PARKING, BUILDING AND DRIVE AREAS TO 90% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557 (MODIFIED PROCTOR TEST), OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
- UNDERDRAINS SHALL BE ADDED, IF DETERMINED NECESSARY IN THE FIELD BY THE OWNER/GEOTECHNICAL ENGINEER, AFTER SUBGRADE IS ROUGH GRADED.
- VERTICAL DATUM IS TO BE CONFIRMED WITH THE TOPOGRAPHIC SURVEY.
- CLEARING LIMITS SHALL BE PHYSICALLY MARKED IN THE FIELD AND APPROVED BY THE TOWN OF MANSFIELD WETLAND AGENT PRIOR TO THE START OF WORK ON THE SITE.
- PROPER CONSTRUCTION PROCEDURES SHALL BE FOLLOWED ON ALL IMPROVEMENTS WITHIN THIS PARCEL, SO AS TO PREVENT THE SLITING OF ANY WATERCOURSE OR WETLANDS IN ACCORDANCE WITH THE 2002 CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL. IN ADDITION, THE CONTRACTOR SHALL STRICTLY ADHERE TO THE "EROSION CONTROL PLAN" CONTAINED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE TO POST ALL BONDS AS REQUIRED BY THE TOWN OF MANSFIELD WHICH WOULD GUARANTEE THE PROPER IMPLEMENTATION OF THE PLAN.
- ALL SITE WORK, MATERIALS OR CONSTRUCTION, AND CONSTRUCTION METHODS FOR EARTHWORK AND STORM DRAINAGE WORK SHALL CONFORM TO THE SPECIFICATIONS AND DETAILS AND APPLICABLE SECTIONS OF THE PROJECT SPECIFICATIONS MANUAL. OTHERWISE THE WORK SHALL CONFORM TO THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION AND PROJECT GEOLOGICAL REPORT IF THERE IS NO PROJECT SPECIFICATIONS MANUAL. ALL FILL MATERIAL UNDER STRUCTURES AND PAVED AREAS SHALL BE PER THE ABOVE STATED APPLICABLE SPECIFICATIONS AND SHALL BE PLACED IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS UNDER THE SUPERVISION OF A QUALIFIED PROFESSIONAL ENGINEER. MATERIAL SHALL BE COMPACTED IN 8" LIFTS TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 1557, OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
- ALL DISTURBANCE INCURRED TO TOWN OR STATE PROPERTY DUE TO CONSTRUCTION SHALL BE RESTORED TO ITS PREVIOUS CONDITION OR BETTER, TO THE SATISFACTION OF THE TOWN OF MANSFIELD AUTHORITY AND STATE OF CONNECTICUT.
- ALL CONSTRUCTION SHALL COMPLY WITH THE PROJECT SPECIFICATIONS MANUAL AND THE LOCAL MUNICIPALITY'S STANDARDS AND STATE DOT SPECIFICATIONS AS APPLICABLE FOR THE LOCATION OF THE WORK. ALL CONSTRUCTION WITHIN A DOT RIGHT OF WAY SHALL COMPLY WITH ALL DEPARTMENT OF TRANSPORTATION STANDARDS. WHERE SPECIFICATIONS OR STANDARDS ARE IN CONFLICT, THE MORE STRINGENT SPECIFICATION OR STANDARD SHALL BE SURVOR.
- IF IMPACTED OR CONTAMINATED SOIL IS ENCOUNTERED BY THE CONTRACTOR, THE CONTRACTOR SHALL SUSPEND EXCAVATION WORK OF IMPACTED SOIL AND NOTIFY THE OWNER AND/OR OWNER'S ENVIRONMENTAL CONSULTANT PRIOR TO PROCEEDING WITH FURTHER WORK IN THE IMPACTED SOIL LOCATION UNTIL FURTHER INSTRUCTED BY THE OWNER AND/OR OWNER'S ENVIRONMENTAL CONSULTANT.

## PRODUCT NOTES:

- SHOP DRAWINGS: THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF MATERIALS AND STRUCTURES FOR REVIEW AND APPROVAL PRIOR TO DELIVERY TO THE SITE. ALLOW 14 WORKING DAYS FOR REVIEW.
- HIGH DENSITY POLYETHYLENE (HDPE) STORM SEWER 12" OR GREATER IN DIAMETER SHALL BE HI-0 SURE-LOK 10.9 PIPE AS MANUFACTURED BY HANCOX INC. OR APPROVED EQUAL. HDPE PIPE SHALL HAVE SMOOTH INTERIOR AND CORRUGATED EXTERIOR AND SHALL MEET THE REQUIREMENTS OF AASHTO M254. TYPE S PIPE SECTIONS SHALL BE JOINED WITH BELL-AND-SPOUT JOINT MEETING THE REQUIREMENTS OF AASHTO M254. THE BELL SHALL BE AN INTEGRAL PART OF THE PIPE AND PROVIDE A MINIMUM FULL-APPLY STRENGTH OF 400 POUNDS. THE JOINT SHALL BE WATERPROOF ACCORDING TO THE REQUIREMENTS OF ASTM D3212. GASKETS SHALL BE MADE OF POLYISOPRENE MEETING THE REQUIREMENTS OF ASTM F477. ALTERNATIVE HDPE PIPE MAY BE USED IF APPROVED BY THE ENGINEER AND OWNER'S CONSTRUCTION MANAGER PRIOR TO ORDERING.
- HIGH DENSITY POLYETHYLENE (HDPE) STORM SEWER LESS THAN 12" IN DIAMETER SHALL BE HI-0 SURE-LOK PIPE AS MANUFACTURED BY HANCOX INC. OR APPROVED EQUAL. HDPE PIPE SHALL HAVE SMOOTH INTERIOR AND CORRUGATED EXTERIOR AND SHALL MEET THE REQUIREMENTS OF AASHTO 252. TYPE S PIPE SECTIONS SHALL BE JOINED WITH COUPLING BANDS OR EXTERNAL SNAP COUPLERS COVERING AT LEAST 2 FULL CONNECTIONS ON EACH END OF THE PIPE. BELLS MUST BE GASKET CONNECTIONS. SHALL INCORPORATE A CLOSED SYNTHETIC EXPANDED RUBBER GASKET MEETING THE REQUIREMENTS OF AASHTO D1056 GRADE 242. GASKETS SHALL BE INSTALLED ON THE CONNECTION BY THE PIPE MANUFACTURER. ALTERNATIVE HDPE PIPE MAY BE USED IF APPROVED BY THE ENGINEER AND OWNER'S CONSTRUCTION MANAGER PRIOR TO ORDERING.

# WATER QUALITY UNIT NOTES:

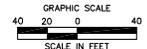
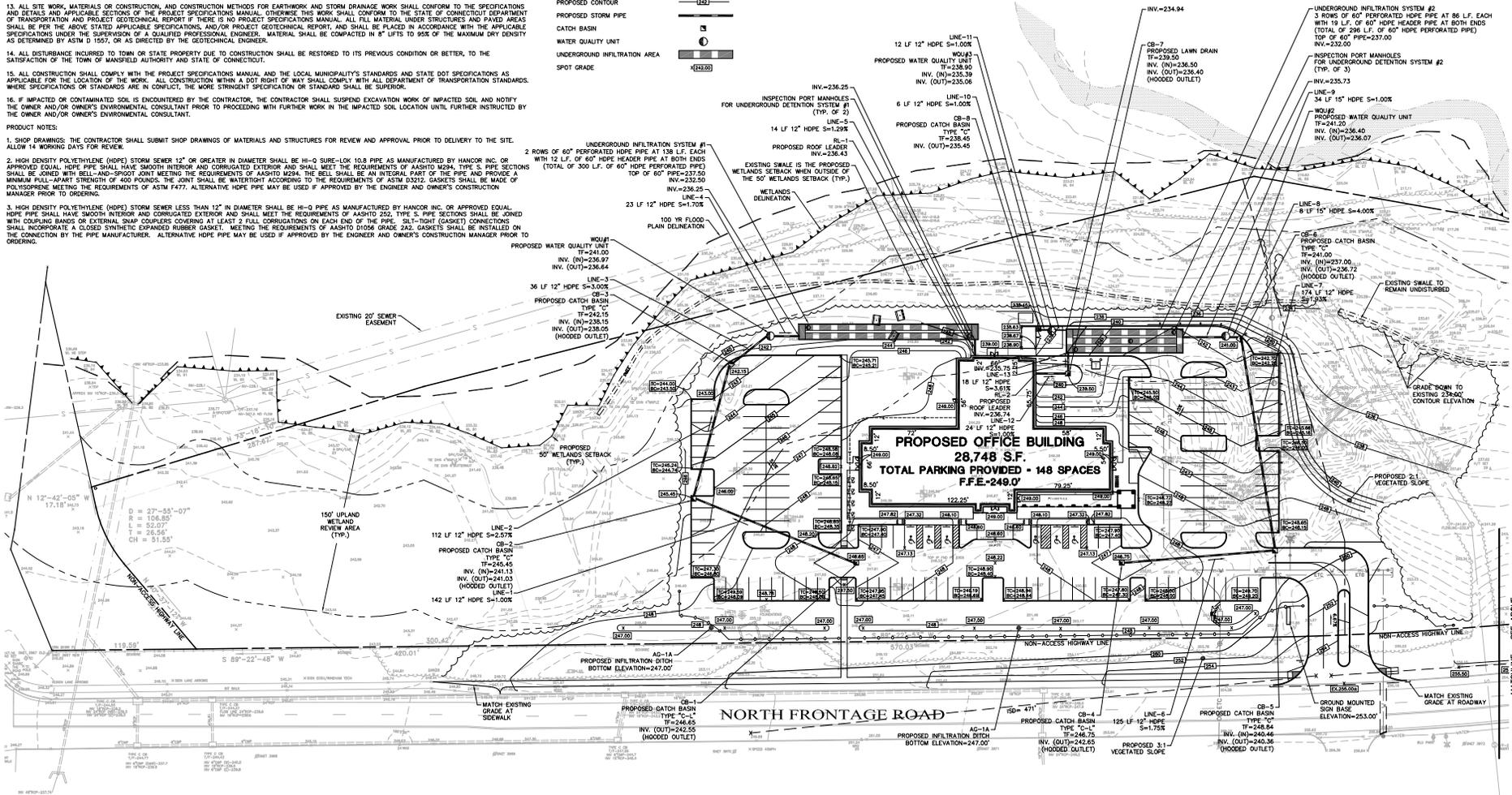
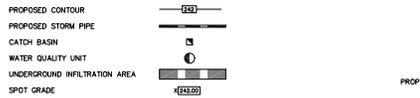
THE STORMWATER TREATMENT SYSTEM MUST BE DESIGNED TO REMOVE A MINIMUM OF 80% OF THE TOTAL SUSPENDED SOLIDS BASED ON THE WATER FLOW RATE AND FLOW OF THE 1-INCH DESIGN STORM FLOW. FOR DESIGN DATA, REFER TO THE TABLE BELOW ENTITLED "WATER QUALITY UNIT DATA TABLE". THE SYSTEM MUST BE INSPECTED AND CLEANED TO THE SHORTER OF A MINIMUM OF 8 MONTHS OR PER THE MANUFACTURER'S RECOMMENDATION. SHOP DRAWINGS OF THE PROPOSED DIVERSION MANHOLE AND TREATMENT SYSTEM MUST FIRST BE APPROVED BY THE DESIGN ENGINEER AND THE TOWN OF MANSFIELD PRIOR TO FABRICATION. SHOP DRAWINGS MUST INCLUDE:

- "TREATED" FLOW FOR THE SPECIFIED SYSTEM AND MODEL, WHICH MUST EQUAL OR EXCEED THE WATER QUALITY FLOW.
- CALCULATIONS OR DOCUMENTATION VERIFYING THAT 80% (MINIMUM) OF THE AVERAGE ANNUAL TOTAL SUSPENDED SOLIDS WILL BE REMOVED FROM THE WATER QUALITY FLOW.
- DETAILED HYDRAULIC CALCULATIONS FOR DESIGN OF THE DIVERSION STRUCTURE (BYPASS WEIR ELEVATION) WHICH INCLUDE HYDRAULIC GRADE LINE ELEVATIONS FOR THE DESIGN STORM EVENT IN THE FIRST STRUCTURE LOCATED UPSTREAM OF THE SYSTEM AND ANY OTHER CRITICAL LOCATIONS (INCLUDE APPROPRIATE TALK-WATER CONDITIONS IN THE ANALYSIS).
- ORIENTATION OF THE SYSTEM IN PLAN VIEW WITH RESPECT TO THE ELEVATIONS (IF DIFFERENT THAN SHOWN ON THE APPROVED PLANS).
- PROPOSED SIZE AND ELEVATION OF CRITICAL WEIR, ORIFICE, PIPE INVERT LOCATIONS, AND OTHER DESIGN ELEMENTS THAT CORRESPOND TO THE HYDRAULIC CHARACTERISTICS OF THE SYSTEM.

**WATER QUALITY UNIT DATA TABLE:**

WATER QUALITY UNIT #	DRAINAGE AREA (ACRES)	PERCENT IMPERVIOUS	TIME OF CONCENTRATION (MIN)	DRAINAGE 10-YEAR DESIGN FLOW (CFS)	WATER QUALITY FLOW (1-INCH) (CFS)
1	0.910	77.5	10	4.11	0.70
2	0.967	86.9	10	4.62	0.83
3	0.123	90.2	10	0.63	0.11

## LEGEND:



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NOT RELEASED FOR CONSTRUCTION



ARCHITECTURE  
PLANNING  
LANDSCAPE ARCHITECTURE  
LAND SURVEYING  
ENVIRONMENTAL SCIENCES

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**PROPOSED OFFICE BUILDING**  
NORTH FRONTAGE ROAD  
MANSFIELD, TOLLAND COUNTY, CONNECTICUT

Revisions:

No.	Date	By	Checked	Scale	Project No.	Date	CAD File
					1"=40'	11C3816	08/27/11
						11C3816	08/27/11

Title: **GRADING AND DRAINAGE PLAN**

Sheet No. **GD-1**

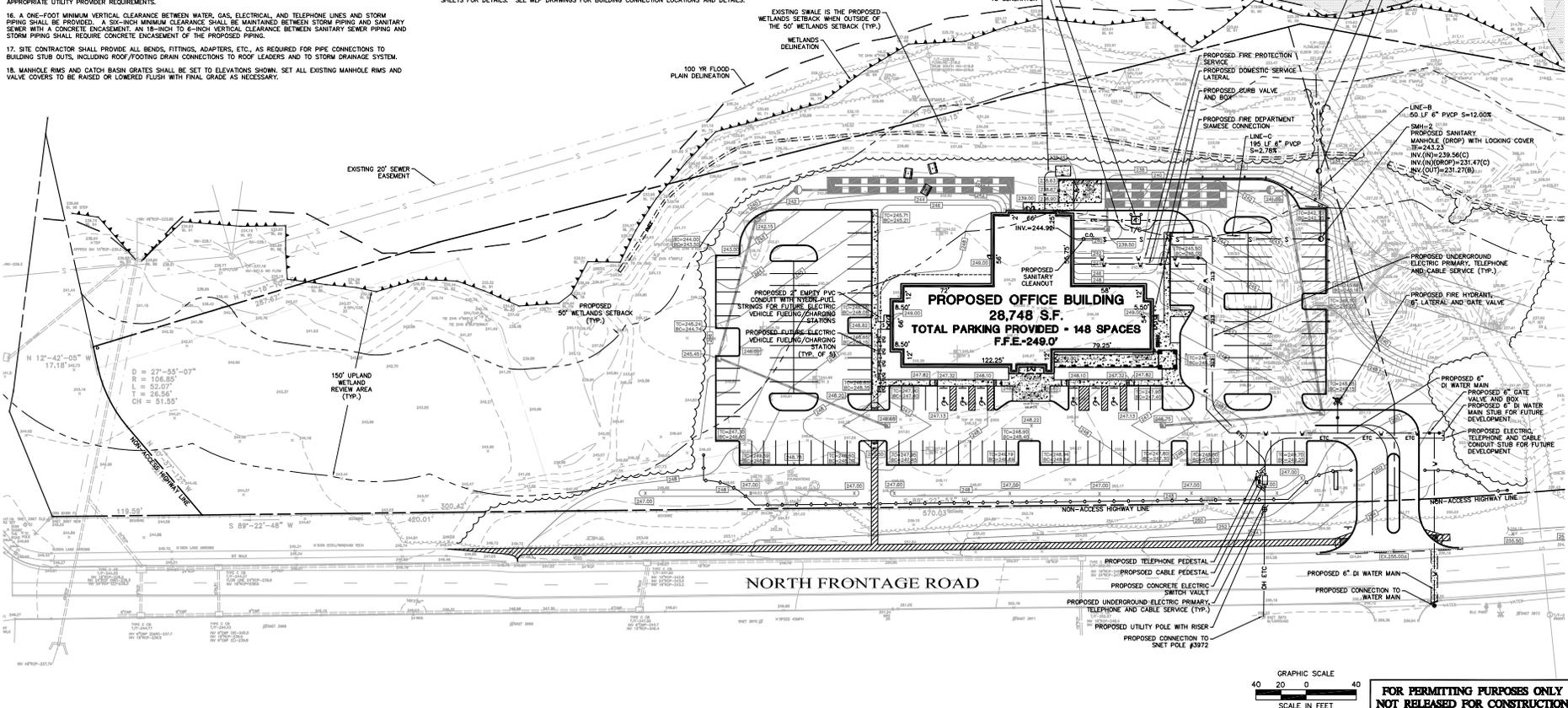
# UTILITIES CONSTRUCTION NOTES

- UTILITY CONSTRUCTION NOTES
- THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE TOWN OF MANSFIELD, STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION, WINDHAM WATER WORKS, CONNECTICUT LIGHT AND POWER, AT&T, CABLE COMPANY, AND TOWN OF MANSFIELD DEPARTMENT OF PUBLIC WORKS TO SECURE CONSTRUCTION PERMITS AND FOR PAYMENT OF FEES FOR STREET CUTS AND CONNECTIONS TO EXISTING UTILITIES.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TRAFFIC DEVICES FOR PROTECTION OF VEHICLES AND PEDESTRIANS CONSISTING OF DRUMS, BARRIERS, SIGNS, LIGHTS, FENCES AND UNIFORMED TRAFFIC CONTROLLERS AND UNIFORMED TRAFFIC OFFICERS AS REQUIRED, OR AS ORDERED BY THE ENGINEER OR AS REQUIRED BY THE LOCAL GOVERNING AUTHORITIES OR AS REQUIRED BY PERMIT SPECIFICATIONS.
- THIS PLAN DETAILS SITE INSTALL PIPES UP TO 5' FROM THE BUILDING FACE. REFER TO ARCHITECTURAL AND MEP DRAWINGS BY OTHERS FOR BUILDING CONNECTIONS. SITE CONTRACTOR SHALL SUPPLY AND INSTALL PIPE ADAPTERS AS NECESSARY AT BUILDING CONNECTION POINT OR AT EXISTING UTILITY OR PIPE CONNECTION POINT.
- THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY THE ELEVATION AND LOCATION OF ALL UTILITIES BY VARIOUS MEANS PRIOR TO BEGINNING ANY EXCAVATION. TEST PITS SHALL BE DUG AT ALL LOCATIONS WHERE PROPOSED SANITARY SEWERS AND WHERE PROPOSED STORM PIPING WILL CROSS EXISTING UTILITIES, AND THE HORIZONTAL AND VERTICAL LOCATIONS OF THE UTILITIES SHALL BE DETERMINED. THE CONTRACTOR SHALL CONTACT THE CIVIL ENGINEER IN THE EVENT OF ANY DISCOVERED OR UNFORESEEN CONFLICTS BETWEEN EXISTING AND PROPOSED SANITARY SEWERS, STORM PIPING AND UTILITIES SO THAT AN APPROPRIATE MODIFICATION MAY BE MADE.
- UTILITY CONNECTION DESIGN AS REFLECTED ON THE PLAN MAY CHANGE SUBJECT TO UTILITY PROVIDER AND GOVERNING AUTHORITY STAFF REVIEW.
- THE CONTRACTOR SHALL ENSURE THAT ALL UTILITY PROVIDERS AND GOVERNING AUTHORITY STANDARDS FOR MATERIALS AND CONSTRUCTION METHODS ARE MET. THE CONTRACTOR SHALL PERFORM PROPER COORDINATION WITH THE RESPECTIVE UTILITY PROVIDER.
- THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE WITH THE RESPECTIVE UTILITY PROVIDERS FOR SERVICE INSTALLATIONS AND CONNECTIONS. THE CONTRACTOR SHALL COORDINATE WORK TO BE PERFORMED BY THE VARIOUS UTILITY PROVIDERS AND SHALL PAY ALL FEES FOR CONNECTIONS, DISCONNECTIONS, RELOCATIONS, INSPECTIONS, AND DEMOLITION UNLESS OTHERWISE STATED IN THE PROJECT SPECIFICATIONS MANUAL AND/OR GENERAL CONDITIONS OF THE CONTRACT.
- ALL EXISTING PAVEMENT WHERE UTILITY PIPING IS TO BE INSTALLED SHALL BE SAW CUT AFTER UTILITY INSTALLATION IS COMPLETED. THE CONTRACTOR SHALL INSTALL TEMPORARY AND/OR PERMANENT PAVEMENT REPAIR AS DETAILED ON THE DRAWINGS OR AS REQUIRED BY THE OWNER HAVING JURISDICTION.
- ALL PIPES SHALL BE LAID ON STRAIGHT ALIGNMENTS AND EVEN GRADES USING A PIPE LASER OR OTHER ACCURATE METHOD.
- SANITARY LATERAL SHALL MAINTAIN 10" MIN. HORIZONTAL, 1.5" VERTICAL (MIN.) SEPARATION DISTANCE FROM WATER LINES, OR ADDITIONAL PROTECTION MEASURES WILL BE REQUIRED WHERE PERMITTED, WHICH SHALL INCLUDE CONCRETE ENCASEMENT OF PIPING UNLESS OTHERWISE DIRECTED BY THE UTILITY PROVIDER AND CIVIL ENGINEER.
- RELOCATION OF UTILITY PROVIDER FACILITIES SUCH AS POLES, SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY PROVIDER.
- THE CONTRACTOR SHALL COMPACT THE PIPE BACKFILL IN 8" LIFTS ACCORDING TO THE PIPE BEDDING DETAILS. TRENCH BOTTOM SHALL BE STABLE IN HIGH GROUNDWATER AREAS. A PIPE FOUNDATION SHALL BE USED PER THE TRENCH DETAILS AND IN AREAS OF ROCK EXCAVATION.
- CONTRACTOR TO PROVIDE STEEL SLEEVES AND ANNUAL SCALE SAND FILL FOR UTILITY PIPE AND CONDUIT CONNECTIONS UNDER FOOTINGS.
- BUILDING UTILITY PENETRATIONS AND LOCATIONS ARE SHOWN FOR THE CONTRACTOR'S INFORMATION AND SHALL BE VERIFIED WITH THE BUILDING MEP DRAWINGS AND WITH THE OWNER'S CONSTRUCTION MANAGER.
- ALL UTILITY CONSTRUCTION IS SUBJECT TO INSPECTION FOR APPROVAL PRIOR TO BACKFILLING, IN ACCORDANCE WITH THE APPROPRIATE UTILITY PROVIDER REQUIREMENTS.
- A ONE-FOOT MINIMUM VERTICAL CLEARANCE BETWEEN WATER, GAS, ELECTRICAL AND TELEPHONE LINES AND STORM PIPING SHALL BE PROVIDED. A SIX-INCH MINIMUM CLEARANCE SHALL BE MAINTAINED BETWEEN STORM PIPING AND SANITARY SEWER WITH A CONCRETE ENCASEMENT. AN 18-INCH TO 6-INCH VERTICAL CLEARANCE BETWEEN SANITARY SEWER PIPING AND STORM PIPING SHALL REQUIRE CONCRETE ENCASEMENT OF THE PROPOSED PIPING.
- THE CONTRACTOR SHALL PROVIDE ALL BENDS, FITTINGS, ADAPTERS, ETC., AS REQUIRED FOR PIPE CONNECTIONS TO BUILDING STUB OUTS, INCLUDING ROOF/FOOTING DRUM CONNECTIONS TO ROOF LEADERS AND TO STORM DRAINAGE SYSTEM.
- MANHOLE RIMS AND DITCH BASIN GRATES SHALL BE SET TO ELEVATION SHOWN. SET ALL EXISTING MANHOLE RIMS AND VALVE COVERS TO BE RAISED OR LOWERED FLUSH WITH FINA GRADE AS NECESSARY.

19. SITE CONTRACTOR SHALL COORDINATE INSTALLATION OF CONDUIT AND CABLES FOR SITE LIGHTING WITH THE BUILDING ELECTRICAL CONTRACTOR.
20. CONTRACTOR SHALL COORDINATE INSTALLATION FOR ELECTRICAL SERVICES TO PYLON SIGNS AND SITE LIGHTING WITH THE BUILDING ELECTRICAL CONTRACTOR.
21. THE CONTRACTOR SHALL RESTORE ANY UTILITY STRUCTURE, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, DRAINAGE STRUCTURE, SWALE OR LANDSCAPE AREAS DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE OWNER, TOWN OF MANSFIELD AND CONNECTICUT DEPARTMENT OF TRANSPORTATION.
22. INFORMATION ON EXISTING UTILITIES AND STORM DRAINAGE HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY PROVIDER AND MUNICIPAL RECORD MAPS AND/OR FIELD SURVEY AND IS NOT GUARANTEED CORRECT OR COMPLETE. UTILITIES AND STORM DRAINAGE ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACCURATE LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND STORM DRAINAGE INCLUDING SERVICES. CONTACT "CALL BEFORE YOU DIG" AT (800) 922-4469 72 HOURS PRIOR TO CONSTRUCTION AND VERIFY ALL UNDERGROUND AND OVERHEAD UTILITY AND STORM DRAINAGE LOCATIONS. THE CONTRACTOR SHALL EMPLOY THE USE OF A UTILITY LOCATING COMPANY TO PROVIDE SUBSURFACE UTILITY ENGINEERING CONSISTING OF DESIGNATING UTILITIES AND STORM PIPING ON PRIVATE PROPERTY WITHIN THE CONTRACT LIMIT AND CONSISTING OF DESIGNATING AND LOCATING WHERE PROPOSED UTILITIES AND STORM PIPING CROSS EXISTING UTILITIES AND STORM PIPING WITHIN THE CONTRACT LIMITS.
23. THE CONTRACTOR SHALL ARRANGE AND COORDINATE WITH UTILITY PROVIDERS FOR WORK TO BE PERFORMED BY UTILITY PROVIDERS. THE CONTRACTOR SHALL PAY ALL UTILITY FEES UNLESS OTHERWISE STATED IN THE PROJECT SPECIFICATION MANUAL AND GENERAL CONDITIONS, AND REPAIR PAVEMENTS AS NECESSARY.
24. ELECTRIC AND TELEPHONE SERVICES SHALL BE INSTALLED OVERHEAD FROM SERVICE POLE SNET #3972 TO A NEW UTILITY POLE ON THE NORTH SIDE OF ROUTE 832 IN THE STATE RIGHT-OF-WAY THEN UNDERGROUND TO THE TRANSFORMER ON BUILDING ON SITE. THE CONTRACTOR SHALL PROVIDE AND INSTALL AND BACKFILL PVC CONDUITS (NUMBER AND SIZE TO BE DETERMINED PRIOR TO CONSTRUCTION) FOR TELEPHONE SERVICE, PVC CONDUITS (NUMBER AND SIZE TO BE DETERMINED PRIOR TO CONSTRUCTION) FOR ELECTRIC SERVICE PRIMARY, PVC CONDUITS (NUMBER AND SIZE TO BE DETERMINED PRIOR TO CONSTRUCTION) FOR ELECTRICAL SECONDARY PER BUILDING ELECTRICAL PLANS, AND PVC CONDUITS (NUMBER AND SIZE TO BE DETERMINED PRIOR TO CONSTRUCTION) FOR CABLE SERVICE (SCHEDULE 80 UNDER PAVEMENT, SCHEDULE 40 IN NON-PAVEMENT AREAS). SERVICES MAY BE INSTALLED IN A COMMON TRENCH WITH 12" CLEAR SPACE BETWEEN. MINIMUM COVER IS 36" ON ELECTRIC CONDUITS AND 24" ON TELEPHONE AND CABLE CONDUITS. SERVICES SHALL BE MARKED WITH MAGNETIC LOCATOR TAPE AND SHALL BE BODED, INSTALLED, AND BACKFILLED IN ACCORDANCE WITH ELECTRIC UTILITY PROVIDER, PHONE COMPANY AND CITY COMPANY STANDARDS. GALVANIZED STEEL ELECTRICAL CONDUIT SHALL BE USED AT POLE AND TRANSFORMER LOCATIONS. INSTALL HANDHOLES AS REQUIRED TO FACILITATE INSTALLATION AND AS REQUIRED BY UTILITY PROVIDER. INSTALL CONCRETE ENCASEMENT ON PRIMARY ELECTRICAL CONDUITS IF REQUIRED BY ELECTRIC PROVIDER.
25. ALL WATER LINES TO HAVE A MINIMUM COVER OF 5'-FEET. ALL LINES SHALL BE BEDDED IN 6" SAND AND INITIALLY BACKFILLED WITH 12" SAND.
26. ALL WATER MAINS, WATER SERVICES AND SANITARY SEWER LATERAL SHALL CONFORM TO THE WINDHAM WATER WORKS SPECIFICATIONS, AS WELL AS TO OTHER APPLICABLE INDUSTRY CODES AND PROJECT SPECIFICATIONS FOR POTABLE WATER SYSTEMS.
27. ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED BY THE OWNER, ENGINEER, AND APPROPRIATE REGULATORY AGENCIES PRIOR TO INSTALLATION.
28. THE CONTRACTOR SHALL MAINTAIN ALL FLOWS AND UTILITY CONNECTIONS TO EXISTING BUILDINGS WITHOUT INTERRUPTION UNLESS/UNLESS AUTHORIZED TO DISCONNECT BY THE OWNERS, THE CIVIL ENGINEER, UTILITY PROVIDERS AND GOVERNING AUTHORITIES.
29. ANY EXISTING POTABLE WELL AND ANY SEPTIC TANKS/ABSORPTION AREAS SHALL BE ABANDONED AND REMOVED PER STATE OF CONNECTICUT AND TOWN OF MANSFIELD HEALTH CODE REQUIREMENTS.
30. THE CONTRACTOR MAY SUBSTITUTE MASONRY STRUCTURES FOR PRECAST STRUCTURES IF APPROVED BY THE CIVIL ENGINEER AND ALLOWED BY THE GOVERNING AUTHORITY ENGINEER OR OTHER GOVERNING AUTHORITY.
31. THIS DRAWING IS INTENDED TO DESCRIBE UTILITIES ONLY. REFER TO SITE PLAN FOR GENERAL INFORMATION, AND DETAIL SHEETS FOR DETAILS. SEE MEP DRAWINGS FOR BUILDING CONNECTION LOCATIONS AND DETAILS.

## LEGEND

---	EXISTING CONTOUR	OH ETC	PROPOSED OVERHEAD ELECTRIC/TELECOMMUNICATIONS/CABLE LINE
- - - -	EXISTING SPOT GRADE	E E	PROPOSED ELECTRIC LINE
□	PROPOSED CATCH BASIN	ETC	PROPOSED ELECTRIC/TELECOMMUNICATIONS/CABLE LINE
○	PROPOSED STORM MANHOLE	W W	PROPOSED WATER LINE
○	PROPOSED STORM CLEANOUT	S S	PROPOSED SANITARY SEWER LINE
---	PROPOSED STORM DRAINAGE PIPE	---	UNDERGROUND INFILTRATION SYSTEM
---	PROPOSED CONTOUR	---	PROPOSED HYDRANT
		---	PROPOSED TRANSFORMER
		---	PROPOSED SANITARY CLEANOUT
		---	PROPOSED UTILITY POLE

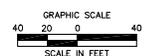


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**PROPOSED OFFICE BUILDING**  
 NORTH FRONTAGE ROAD  
 MANSFIELD, TOLLAND COUNTY, CONNECTICUT

Desig.	B.S.S.
Drawn	B.S.S.
Checked	
Approved	
Scale	1"=40'
Project No.	11C3816
Date	06/27/11
CAD File:	3U11C381601
Title	SITE UTILITY PLAN
Sheet No.	

REVISIONS: No. Date  
 No. Date  
 No. Date



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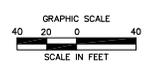
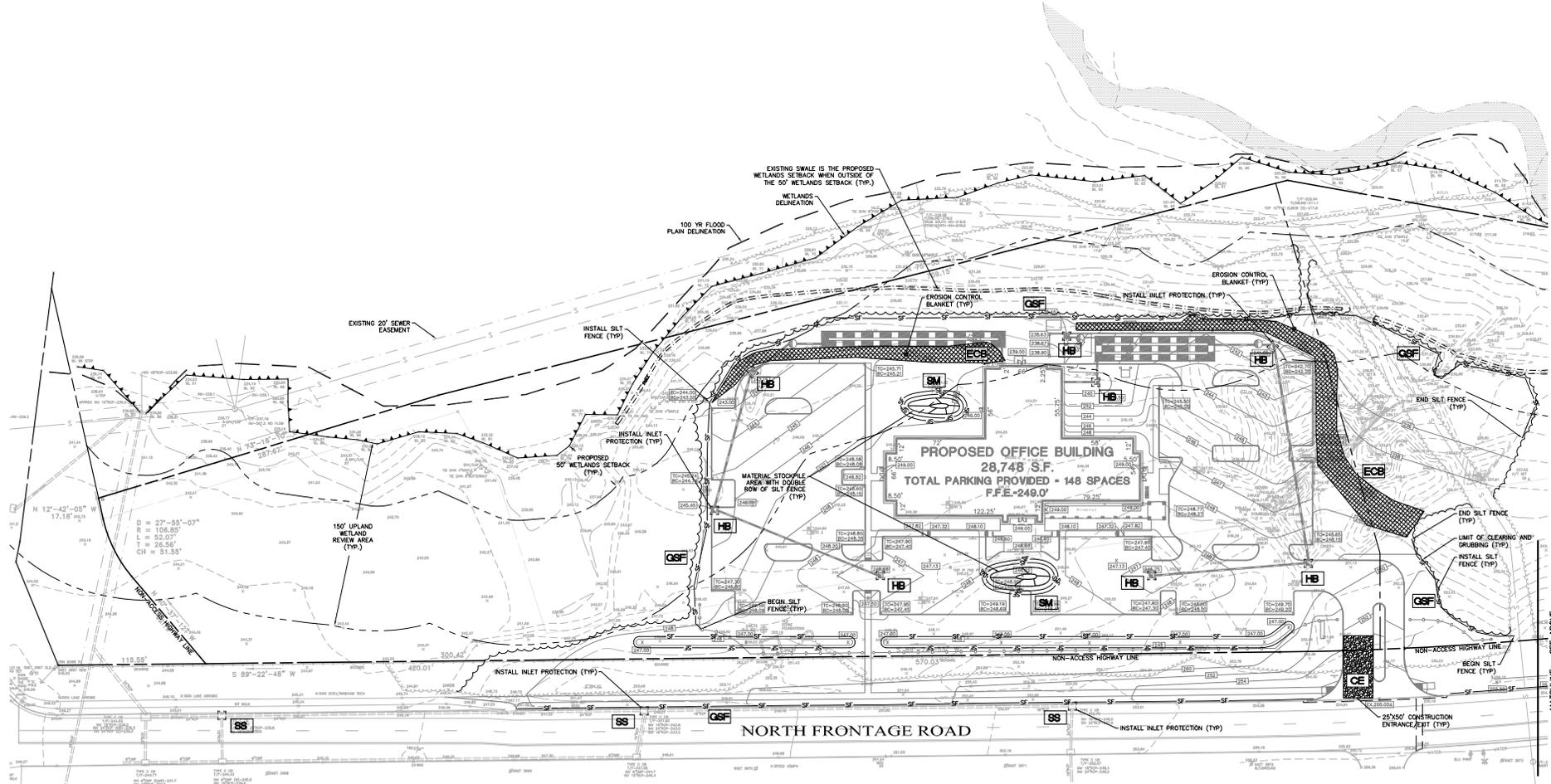
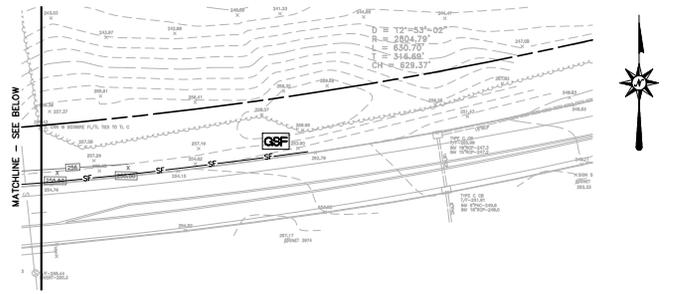
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Revisions	Drawn	BKB
No. Date	Checked	BKB
	Approved	
	Scale	1"=40'
	Project No.	11C3816
	Date	06/27/11
	CAD File:	EC11C381601
Title		
SEDIMENTATION & EROSION CONTROL PLAN		

**LEGEND**

INLET PROTECTION	SS HB
SILT BARRIER	SILT SACK RAY BALE
SILT FENCE	G6F
LIMIT OF CLEARING & GRUBBING	
LIMIT OF DISTURBANCE	
MATERIAL STOCKPILE AREA & DOUBLE ROW OF SILT FENCE	SM
CONSTRUCTION ENTRANCE	CE
EROSION CONTROL MATING BLANKET	ECB



**SEE SHEET EC-2 FOR EROSION CONTROL NOTES & DETAILS**  
**FOR PERMITTING PURPOSES ONLY**  
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APPROVED BY: BKB  
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# EROSION CONTROL NOTES

**SEDIMENT & EROSION CONTROL NARRATIVE:**  
THE SEDIMENT AND EROSION CONTROL PLAN WAS DEVELOPED TO PROTECT THE EXISTING ROADWAY AND STORM DRAINAGE SYSTEMS, ADJACENT PROPERTIES, AND ADJACENT WETLAND AREA FROM SEDIMENT LAIDEN SURFACE RUNOFF AND EROSION. A CONSTRUCTION SEQUENCE IS PROVIDED TO PROVIDE SURFACE RUNOFF EROSION CONTROLS PRIOR TO BEGINNING OF PROJECT DEMOLITION AND/OR CONSTRUCTION.

**CONSTRUCTION SCHEDULE:**  
THE ANTICIPATED STARTING DATE FOR CONSTRUCTION IS FALL 2011 WITH COMPLETION ANTICIPATED SPRING 2012. APPROPRIATE EROSION CONTROL MEASURES AS DESCRIBED HEREIN SHALL BE INSTALLED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION OR CONSTRUCTION ACTIVITY. SCHEDULE WORK TO MINIMIZE THE LENGTH OF TIME THAT BARE SOIL WILL BE EXPOSED.

**CONTINGENCY EROSION PLAN:**  
THE CONTRACTOR SHALL INSTALL ALL SPECIFIED EROSION CONTROL MEASURES AND WILL BE REQUIRED TO MAINTAIN THEM IN THEIR INTENDED FUNCTIONING CONDITION. THE AGENTS OF THE TOWN OF MANSFIELD AND/OR CIVIL ENGINEER HAS THE AUTHORITY TO REQUIRE SUPPLEMENTAL MAINTENANCE OR ADDITIONAL MEASURES IF FIELD CONDITIONS ARE ENCOUNTERED BEYOND WHAT WOULD NORMALLY BE ANTICIPATED.

**CONSTRUCTION SEQUENCE IS RECOMMENDED:**

1. CLEARING WORK OF MANIFESTED AREA AT LEAST FORTY-EIGHT (48) HOURS PRIOR TO COMMENCEMENT OF ANY DEMOLITION, CONSTRUCTION OR REGULATORY ACTIVITY ON THIS PROJECT.
2. CLEARING LIMITS SHALL BE PHYSICALLY MARKED IN THE FIELD AND APPROVED BY THE TOWN OF MANFIELD AGENT PRIOR TO THE START OF WORK ON THE SITE. INSTALL TREE PROTECTION AND PERMETER SILT FENCE.
3. CONSTRUCT STONE CONSTRUCTION ENTRANCES/EXITS AND WRAP FILTER FABRIC AROUND CURVES OF CATCH BASINS OR INSTALL SILT BARRIERS ON CATCH BASIN INLETS ON OFF SITE ROADS. INSTALL SILT FENCE AND OTHER EROSION CONTROL DEVICES INDICATED ON THESE PLANS AT PERIMETER OF PROPOSED SITE DISTURBANCE AND INSTALL ALL EROSION CONTROL MEASURES AND TREE PROTECTION INDICATED ON THESE PLANS. INSTALL SEDIMENT BASINS AND SEDIMENT TRAPS IF REQUIRED AT LOW AREAS OF SITE OR AS DIRECTED BY THE ENGINEER OR AS SHOWN ON THESE PLANS.
4. CLEAR AND GRUB SITE, STOCKPILE CHIPS, STOCKPILE TOPSOIL. INSTALL EROSION CONTROLS AT STOCKPILES.
5. INSTALL SILT FENCE. COMMENCE INSTALLATION OF STORM DRAINAGE SYSTEM.
6. COMMENCE EARTHWORK. CONSTRUCT FILL SLOPE. INSTALL ADDITIONAL EROSION CONTROLS AS WORK PROGRESSES AND CONTINUE STORM DRAINAGE SYSTEM CONSTRUCTION, TOPSOIL, AND SEED SLOPES WHICH HAVE ACHIEVED FINAL SITE GRADING OR REGULATORY ACTIVITY ON THIS PROJECT.
7. CONSTRUCTION STAKING OF ALL BUILDING CORNERS, UTILITIES, ACCESS DRIVES, AND PARKING AREAS.
8. ROUGH GRADING AND FILLING OF SUBGRADE AND SLOPES.
9. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE OR MINIMIZE EROSION AND/OR SEDIMENT POLLUTION.
10. BEFORE DEPOSING OF SOIL OR RECEIVING BORROW FOR THE SITE, THE CONTRACTOR MUST PROVIDE EVIDENCE THAT EACH SOIL OR BORROW AREA HAS AN EROSION AND SEDIMENT CONTROL PLAN APPROVED BY THE TOWN OF MANFIELD AND BEING IMPLEMENTED AND MAINTAINED. THE CONTRACTOR SHALL ALSO NOTIFY THE TOWN OF MANFIELD IN WRITING OF ALL RECEIVING SOIL AND BORROW AREAS WHEN THEY HAVE BEEN IDENTIFIED.
11. CONTINUE INSTALLATION OF STORM DRAINAGE AS SUBGRADE ELEVATIONS ARE ACHIEVED.
12. BUILDING FOUNDATION SUBGRADE AND PAD SUBGRADE PREPARATION.
13. BUILDING FOUNDATION CONSTRUCTION. BEGIN BUILDING SUPERSTRUCTURE.
14. THROUGHOUT CONSTRUCTION SEQUENCE, REMOVE SEDIMENT FROM BEHIND SILT FENCES, HAY BALES AND OTHER EROSION CONTROL DEVICES, AND FROM SEDIMENT TRAPS AS REQUIRED. REMOVAL SHALL BE ON A PERIODIC BASIS (EVERY SEVENTH DAY) AND SHALL BE ACCORDING TO THE EROSION CONTROL MEASURES. ALL COLLECTED SEDIMENT SHALL BE DEPOSITED IN A MEXLEY BAGS AND AFTER EACH RAINFALL OF 0.25 INCHES OR GREATER, SEDIMENT COLLECTED SHALL BE DEPOSITED AND SPREAD EVENLY UPWARD ON SLOPES DURING CONSTRUCTION.
15. INSTALL SANITARY LATERAL AND UTILITIES. COMPLETE STORM DRAINAGE SYSTEM.
16. INSTALL SITE LIGHTING AND TRASH ENCLOSURES.
17. COMPLETE GRADING OF SUBGRADE AND CONSTRUCT PARKING AREA SUBGRADE.
18. CONSTRUCT CURBS, PAVEMENT STRUCTURES AND SIDEWALKS.
19. CONDUCT FINE GRADING.
20. PAVING OF PARKING AREAS AND DRIVEWAYS.
21. FINAL FINE GRADING OF SLOPE AND NON-PAVED AREAS.
22. PLACE 4" TOPSOIL ON SLOPES AFTER FINAL GRADING IS COMPLETED. FERTILIZE SEED AND MULCH. SEED PRACTURE TO BE INSTALLED APRIL 15-JUNE 15 OR AUGUST 15-NOVEMBER 15. EROSION CONTROL BLANKETS AS REQUIRED OR ORDERED FOR SLOPES GREATER THAN 3:1 AND AS SHOWN ON LANDSCAPE PLANS OR EROSION CONTROL PLANS. FOR TEMPORARY STABILIZATION DATES AND RATES: 1 LB./1000 S.F. AT 100 LBS./2000 S.F. FERTILIZER WITH 10-10-10 AT 1.0 LBS. OF NITROGEN PER 1,000 S.F. AND LIME AT 100 LBS./2,000 S.F. (MAX).
23. LANDSCAPE ISLANDS INTERIOR NON-PAVED AREA AND PERIMETER AREAS.
24. INSTALL SIGNAGE AND PAVEMENT MARKINGS.
25. CLEAN STORM DRAINAGE PIPE STRUCTURES, DETENTION SYSTEMS AND WATER QUALITY DEVICES OF DEBRIS AND SEDIMENT.
26. UPON DIRECTION OF THE TOWN OF MANFIELD AGENT, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED FOLLOWING STABILIZATION OF THE SITE.

**OPERATION REQUIREMENTS**

**CLEARING AND GRUBBING OPERATIONS**

1. ALL DEMOLITION AND EROSION CONTROL MEASURES, INCLUDING THE CONSTRUCTION OF TEMPORARY SEDIMENT BASINS AND STONE CONSTRUCTION ENTRANCES/EXITS, WILL BE INSTALLED PRIOR TO THE START OF CLEARING AND GRUBBING AND DEMOLITION OPERATIONS.
2. FOLLOWING INSTALLATION OF ALL DEMOLITION AND EROSION CONTROL MEASURES, THE CONTRACTOR SHALL NOT PROCEED WITH DEMOLITION OR OTHER CONSTRUCTION OPERATIONS UNTIL THE ENGINEER HAS INSPECTED AND APPROVED ALL INSTALLATIONS.
3. THE CONTRACTOR SHALL TAKE EXTREME CARE DURING CLEARING AND GRUBBING OPERATIONS SO AS NOT TO DISTURB UNPROTECTED AREAS OF WETLANDS OR OTHER SENSITIVE AREAS.

**FOLLOWING THE COMPLETION OF CLEARING AND GRUBBING OPERATIONS, ALL AREAS SHALL BE STABILIZED WITH TOPSOIL AND SEEDING OR PROCESSED AGGREGATE STONE AS SOON AS PRACTICAL.**

**ROUGH GRADING OPERATIONS**

1. DURING THE REMOVAL AND/OR PLACEMENT OF EARTH AS INDICATED ON THE GRADING PLAN, TOPSOIL SHALL BE STRIPPED AND APPROPRIATELY STOCKPILED FOR REUSE.
2. ALL STOCKPILED TOPSOIL SHALL BE SEED, MULCHED WITH HAY, AND ENCLOSED BY A SILTATION FENCE. FILLING OPERATIONS

1. PRIOR TO BEGAINING ALL DEMOLITION AND EROSION CONTROL DEVICES SHALL BE PROPERLY IMPLEMENTED, MAINTAINED AND FULLY INSTALLED, AS DIRECTED BY THE ENGINEER AND AS SHOWN ON THESE PLANS.

2. ALL FILL MATERIAL ADJACENT TO ANY WETLAND AREAS, IF APPLICABLE TO THIS PROJECT, SHALL BE GOOD QUALITY, WITH LESS THAN SIX FINES PASSING THROUGH A #20 SIEVE (BANK RUN). SILT SHALL BE PLACED IN LIFT THICKNESSES NOT GREATER THAN THAT SPECIFIED IN PROJECT SPECIFICATIONS AND/OR THE PROJECT GEOTECHNICAL REPORT. LIFTS SHALL BE COMPACTED TO 98% MAX. DRY DENSITY MODIFIED PROCTOR OR AS SPECIFIED IN THE CONTRACT SPECIFICATIONS OR IN THE GEOTECHNICAL REPORT.

3. AS GENERAL GRADING OPERATIONS PROGRESS, ANY TEMPORARY DIVERSION DITCHES SHALL BE RAISED OR LOWERED, AS NECESSARY, TO DIVERT SURFACE RUNOFF TO THE SEDIMENT BASINS OR SEDIMENT TRAPS.

**PLACEMENT OF DRAINAGE STRUCTURES, UTILITIES, AND BUILDING CONSTRUCTION OPERATIONS**

1. SILT FENCES SHALL BE INSTALLED AT THE DOWNHILL SIDES OF BUILDING EXCAVATIONS, MUD PUMP DISCHARGES, AND UTILITY TRENCH MATERIAL. STOCKPILES HAY BALES MAY BE USED IF SHOWN ON THE EROSION CONTROL PLANS OR IF DIRECTED BY THE CIVIL ENGINEER.

**FINAL GRADING AND PAVING OPERATIONS**

1. ALL INLET AND OUTLET PROTECTION SHALL BE PLACED AND MAINTAINED AS SHOWN ON CONSTRUCTION PLANS AND DETAILS, AND AS SPECIFIED IN THE CONTRACT SPECIFICATIONS AND AS DESCRIBED HEREIN. ALL OUT AND FILL SLOPES SHALL EXCEED 2:1 EXCEPT WHERE STABILIZED BY ROCK FACED EMBANKMENTS OR EROSION CONTROL BLANKETS, JUTE MESH AND VEGETATION. ALL SLOPES SHALL BE SEED, AND ANY ROAD OR DRIVEWAY SURFING AND BANKS SHALL BE STABILIZED IMMEDIATELY UPON COMPLETION OF FINAL GRADING UNTIL TURF IS ESTABLISHED.

2. PAVEMENT SUB-BASE AND BASE COURSES SHALL BE STABILIZED IMMEDIATELY UPON AREAS TO BE PAVED AS SOON AS FINAL SUB-GRADES ARE ESTABLISHED AND UNDERGROUND UTILITIES AND STORM DRAINAGE SYSTEMS HAVE BEEN INSTALLED.

4. AFTER CONSTRUCTION OF PAVEMENT, TOPSOIL, FINAL SEED, MULCH AND LANDSCAPING, REMOVE ALL TEMPORARY EROSION CONTROL DEVICES ONLY AFTER ALL AREAS HAVE BEEN PAVED AND/OR GRASS HAS BEEN WELL ESTABLISHED AND THE SITE HAS BEEN INSPECTED AND APPROVED BY THE TOWN OF MANFIELD.

- INSTALLATION OF SEDIMENTATION AND EROSION CONTROL MEASURES**
1. SILTATION FENCE
    - A. DIG A SIX INCH TRENCH ON THE UPHILL SIDE OF THE DESIGNATED FENCE LINE LOCATION.
    - B. POSITION THE POST AT THE BACK OF THE TRENCH (DOWNHILL SIDE), AND HAMMER THE POST AT LEAST 1/2 FEET INTO THE GROUND.
    - C. LAY THE BOTTOM SIX INCHES OF THE FABRIC INTO THE TRENCH TO PREVENT UNDERMINING BY STORM WATER RUN-OFF.
    - D. BACKFILL THE TRENCH AND COMPACT.
  2. HAY BALES
    - A. BALES SHALL BE PLACED IN A SINGLE ROW LENGTHWISE, ORIENTED PARALLEL TO THE CONTOUR, WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER.
    - B. BALES SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED THE WIDTH OF A BALE AND THE LENGTH OF THE PERIMETER OF THE TRENCH SHALL BE FOUR INCHES. AFTER THE BALES ARE STAKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AGAINST THE BARRIER.
    - C. EACH BALE SHALL BE SECURELY ANCHORED BY AT LEAST TWO (2) STAKES.
    - D. THE GAPS BETWEEN BALES SHALL BE WEDGED WITH STRAW TO PREVENT WATER LEAKAGE.
    - E. THE BARRIER SHALL BE EXTENDED TO SUCH A LENGTH THAT THE BOTTOMS OF THE END BALES ARE HIGHER IN ELEVATION THAN THE TOP OF THE LOWEST MIDDLE BALE, TO ENSURE THAT RUN-OFF WILL FLOW EITHER THROUGH OR OVER THE BARRIER, BUT NOT AROUND.
  3. EACH BALE SHALL BE SECURELY ANCHORED BY AT LEAST TWO (2) STAKES.
  4. THE GAPS BETWEEN BALES SHALL BE WEDGED WITH STRAW TO PREVENT WATER LEAKAGE.
  5. THE BARRIER SHALL BE EXTENDED TO SUCH A LENGTH THAT THE BOTTOMS OF THE END BALES ARE HIGHER IN ELEVATION THAN THE TOP OF THE LOWEST MIDDLE BALE, TO ENSURE THAT RUN-OFF WILL FLOW EITHER THROUGH OR OVER THE BARRIER, BUT NOT AROUND.

**OPERATION AND MAINTENANCE OF SEDIMENTATION AND EROSION CONTROL MEASURES**

1. SILTATION FENCE
  - A. ALL SILTATION FENCES SHALL BE INSPECTED AS A MINIMUM WEEKLY OR AFTER EACH RAINFALL, ALL DETERIORATED FABRIC AND DAMAGED POSTS SHALL BE REPLACED AND PROPERLY REPOSITIONED IN ACCORDANCE WITH THIS PLAN.
  - B. SEDIMENT DEPOSITS SHALL BE REMOVED FROM BEHIND THE FENCE WHEN THEY EXCEED A HEIGHT OF ONE FOOT.
2. HAY BALES
  - A. ALL HAY BALES RINGS SHALL BE INSPECTED FOLLOWING EACH RAINFALL. REPAIR OR REPLACEMENT SHALL BE PROMPTLY MADE AS NECESSARY.
  - B. DEPOSITS SHALL BE REMOVED AND CLEANED-OUT IF ONE HALF OF THE ORIGINAL HEIGHT OF THE BALES BECOMES FILLED WITH SEDIMENT.

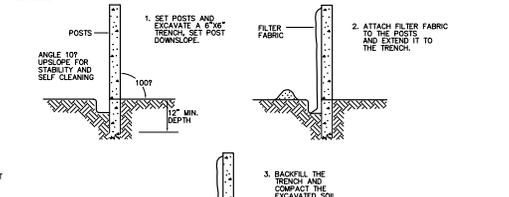
**EROSION AND SEDIMENT CONTROL PLAN**

1. HAY BALE FILTERS OR SILTATION FENCE WILL BE INSTALLED AT ALL OVERTOP OUTLETS IF OVERTOP OUTLETS ARE APPLICABLE TO THIS PROJECT AND ALONG THE TOE OF ALL CRITICAL OUT AND FILL SLOPES.
2. GULVERT DISCHARGE AREAS WILL BE PROTECTED WITH RIP RAP CHANNELS, ENERGY DISSIPATORS WILL BE INSTALLED AS SHOWN ON THESE PLANS AND AS SPECIFIED IN THE CONTRACT SPECIFICATIONS.
3. CATCH BASINS WILL BE PROTECTED WITH HAY BALE FILTERS, SILT SACKS, SILTATION FENCE, OR OTHER INLET PROTECTION DEVICES PER DETAILS, THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE THOROUGHLY STABILIZED.
4. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
5. EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED PRIOR TO DEMOLITION AND/OR CONSTRUCTION WHERE POSSIBLE.
6. ADDITIONAL CONTROL MEASURES WILL BE INSTALLED DURING THE CONSTRUCTION PERIOD, IF NECESSARY OR REQUIRED OR AS DIRECTED BY THE CIVIL ENGINEER OR BY LOCAL GOVERNING OFFICIALS.
7. SEDIMENT REMOVED FROM EROSION CONTROL STRUCTURES WILL BE DISPOSED IN A MANNER WHICH IS CONSISTENT WITH THE INTENT AND REQUIREMENTS OF THE EROSION CONTROL PLANS, NOTES, AND DETAILS.
8. THE CONTRACTOR IS ASSIGNED THE RESPONSIBILITY FOR IMPLEMENTING THIS EROSION AND SEDIMENT CONTROL PLAN. THIS RESPONSIBILITY INCLUDES THE INSTALLATION, MAINTENANCE OF CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, NOTIFICATION OF THE STATE OF CONNECTICUT DEPARTMENT OF ENVIRONMENT AND PUBLIC DEFENSE AND THE TOWN OF MANFIELD, AUTHORITY OF ANY TRANSFER OF THIS RESPONSIBILITY AND FOR CONVEYING A COPY OF THE EROSION AND SEDIMENT CONTROL PLAN IF THE TITLE IS TRANSFERRED.

- SEDIMENT AND EROSION CONTROL NOTES**
1. THE SEDIMENT AND EROSION CONTROL PLAN IS ONLY INTENDED TO DESCRIBE THE SEDIMENT AND EROSION CONTROL TREATMENT FOR THIS SITE. SEE SEDIMENT AND EROSION CONTROL DETAILS AND CONSTRUCTION SEQUENCE. REFER TO SITE PLAN FOR OTHER CONSTRUCTION PLANS FOR APPROPRIATE INFORMATION.
  2. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THIS SEDIMENT AND EROSION CONTROL PLAN, AND CONTACT INFORMATION WILL BE PROVIDED AT THE TIME OF CONSTRUCTION. THIS RESPONSIBILITY INCLUDES THE PROPER INSTALLATION AND MAINTENANCE OF CONTROL MEASURES THROUGHOUT THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND APPROVALS FROM THE TOWN OF MANFIELD AND THE STATE OF CONNECTICUT DEPARTMENT OF ENVIRONMENT AND PUBLIC DEFENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A COPY OF THE SEDIMENT & EROSION CONTROL PLAN IF THE TITLE TO THE LAND IS TRANSFERRED.
  3. AN EROSION CONTROL BOND MAY BE REQUIRED TO BE POSTED WITH THE TOWN OF MANFIELD TO ENSURE THE IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL MEASURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THIS BOND AND FOR INQUIRIES TO THE TOWN OF MANFIELD FOR INFORMATION ON THE METHOD, TYPE AND AMOUNT OF THE BOND POSTING UNLESS OTHERWISE DIRECTED BY THE OWNER.
  4. VISUAL SITE INSPECTIONS SHALL BE CONDUCTED WEEKLY, AND AFTER EACH MEASURABLE PRECIPITATION EVENT OF 0.25 INCHES OR GREATER BY QUALIFIED PERSONNEL, TRAINED AND EXPERIENCED IN EROSION AND SEDIMENT CONTROL. TO ASCERTAIN THAT THE EROSION AND SEDIMENT CONTROL MEASURES ARE OPERATIONAL AND EFFECTIVE IN PREVENTING POLLUTION. A WRITTEN REPORT OF EACH INSPECTION SHALL BE KEPT, AND INCLUDE:
    - A. A SUMMARY OF THE SITE CONDITIONS, EARTHWORK, AND CONSTRUCTION ACTIVITIES.
    - B. THE DATE, TIME, AND NAME OF THE PERSON CONDUCTING THE INSPECTION.
  5. THE CONTRACTOR SHALL INSTALL ALL SEDIMENT AND EROSION CONTROLS IN ACCORDANCE WITH THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, AND AS DIRECTED BY THE TOWN OF MANFIELD. KEEP A COPY OF THE GUIDELINES ON-SITE FOR REFERENCE DURING CONSTRUCTION.
  6. ADDITIONAL AND/OR ALTERNATE SEDIMENT AND EROSION CONTROL MEASURES MAY BE INSTALLED DURING THE CONSTRUCTION PERIOD IF FOUND NECESSARY BY THE CIVIL ENGINEER, CIVIL ENGINEER, TOWN OF MANFIELD OR GOVERNING AGENCIES. THE CONTRACTOR SHALL CONTACT THE OWNER AND APPROPRIATE GOVERNING AGENCIES FOR APPROVAL IF ALTERNATIVE CONTROL MEASURES OTHER THAN THOSE ON THESE PLANS ARE REQUIRED.
  7. THE CONTRACTOR SHALL INSPECT ALL SEDIMENT AND EROSION CONTROLS BEFORE AND AFTER EACH STORM (0.25 INCHES OR GREATER RAINFALL), OR AT LEAST WEEKLY, TO VERIFY THAT THE CONTROLS ARE OPERATING PROPERLY AND MAKE REPAIRS WHERE NECESSARY.
  8. THE CONTRACTOR SHALL KEEP A SUPPLY OF EROSION CONTROL MATERIAL (HAY BALES, SILT FENCE, JUTE MESH/RAP ETC.) ON-SITE FOR MAINTENANCE AND EMERGENCY REPAIRS.
  9. PROTECT EXISTING TREES THAT ARE TO BE SAVED BY FENCING AT THE DRIP LINE OR AS SHOWN WITH SNOW FENCE. GRADE SAFETY FENCE OR EQUIVALENT FENCING SHOULD BE DONE BEFORE CONSTRUCTION BEGINS IN THAT AREA; FENCING SHALL BE MAINTAINED AND REPAIRED DURING CONSTRUCTION.
  10. INSTALL PERIMETER SEDIMENT CONTROL PRIOR TO CLEARING OR CONSTRUCTION. ALL CONSTRUCTION SHALL BE CONTAINED WITHIN THE LIMIT OF DISTURBANCE. ALL CONSTRUCTION WITH SILT FENCE SAFETY FENCE HAY BALES, RUBBING, OR OTHER MEANS PRIOR TO CLEARING. CONSTRUCTION ACTIVITY SHALL REMAIN ON THE UPHILL SIDE OF THE SILT FENCE UNLESS SPECIFICALLY CALLED FOR BY THE DOWNHILL SIDE.
  11. STONE CONSTRUCTION ENTRANCES/EXITS SHALL BE INSTALLED AT START OF CONSTRUCTION AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION. THE LOCATION OF THE TRACKING PADS MAY CHANGE AS VARIOUS PHASES OF CONSTRUCTION ARE COMPLETED.
  12. TRACKING PADS SHALL BE SURVEYED AND STOCKPILED FOR USE IN FINAL LANDSCAPING. ALL EARTH STOCKPILES SHALL HAVE HAY BALES OR SILT FENCE AROUND THE LIMIT OF PILE. PILES SHALL BE TEMPORARILY SEEDED IF PILE IS TO REMAIN IN PLACE FOR MORE THAN 2 MONTHS.
  13. COMPLY WITH REQUIREMENTS OF CSR SECTION 22A.435B FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES AND WITH DEP RECORD KEEPING AND INSPECTION REQUIREMENTS.
  14. STONE CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY ON SITE EXCAVATION AND SHALL BE MAINTAINED DURING ALL EXCAVATION AND CONSTRUCTION ACTIVITIES.
  15. MINIMIZE LAND DISTURBANCES. SEED AND MULCH DISTURBED AREAS WITH TEMPORARY MUD AS NECESSARY. PRACTICALLY ALL EXPOSED AREAS SHALL BE PROTECTED USING PERMANENT PLYWOODS AT 40 LBS PER ACRE. MULCH ALL OUT AND FILL SLOPES AND SLOPES WITH LOGS MAY AT A RATE OF 2 TONS PER ACRE IF NECESSARY. REPLACE LOGS WITH LOGS UNLESS SPECIFICALLY CALLED FOR BY THE DOWNHILL SIDE. WETLANDS, ISLANDS, AND TEMPORARY CONSTRUCTION STAGING AREAS MAY BE HYDROLOGICALLY WITH TOADPOLE.
  16. SILT FENCE AND OTHER SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH CONTRACT DOCUMENTS AND MANUFACTURER'S RECOMMENDATIONS PRIOR TO WORK IN ANY UPLAND AREAS.
  17. EXCAVATED MATERIAL FROM TEMPORARY SILT TRAPS MUST BE STOCKPILED ON UPHILL SIDE OF SILT FENCE.
  18. INSTALL SILT FENCE ACCORDING TO MANUFACTURER'S INSTRUCTION, PARTICULARLY, BURY LOWER EDGE OF FABRIC INTO GROUND. SILT FENCE SHALL BE MARI-FIBER, AMOCO SILT STOP OR EQUIVALENT APPROVED BY THE CIVIL ENGINEER. FILTER FABRIC USED SHALL BE MARI-FIBER OR EQUIVALENT. SEE SPECIFICATIONS FOR FURTHER INFORMATION.
  19. WHERE INDICATED ON EROSION CONTROL PLANS USE NEW HAY BALES AND REPLACE THEM WHENEVER THEIR CONDITION DEGRADATES. MAINTAIN STAKE HAY BALES REPLACED INTO GROUND AND BUTT TIGHTLY TOGETHER TO PREVENT UNDERCUTTING AND BYPASSING.

20. INSTALL TEMPORARY DIVERSION DITCHES, PLUNGE POOLS, SEDIMENT BASINS, SEDIMENT TRAPS AND DOWATERING PITS AS SHOWN AND AS NECESSARY DURING VARIOUS PHASES OF CONSTRUCTION TO CONTROL RUNOFF UNTIL UPHILL AREAS ARE STABILIZED. LOCATION OF TEMPORARY SEDIMENT TRAPS WILL REQUIRE REVIEW AND APPROVAL BY THE CIVIL ENGINEER AND GOVERNING OFFICIAL.
21. DIRECT ALL DOWATERING PUMP DISCHARGE TO A SEDIMENT CONTROL DEVICE SUCH AS TEMPORARY PITS, SEDIMENT TRAP, SEDIMENT BASINS OR GRASS FILTERS WITHIN THE APPROVED LIMIT OF DISTURBANCE. DISCHARGE TO STORM DRAINAGE SYSTEM OR SURFACE WATERS FROM THESE DEVICES MUST BE CLEAR.
22. BLOCK END OF STORM SEWERS IN EXPOSED TRENCHES WITH BOARDS AND SANDBAGS AT THE END OF EACH WORKING DAY WHEN RAIN IS EXPECTED.
23. SWEEP AFFECTED PORTIONS OF OFF SITE ROADS ONE OR MORE TIMES A DAY (OR LESS FREQUENTLY IF TRACKING IS NOT A PROBLEM DURING CONSTRUCTION). OTHER DUST CONTROL MEASURES SHOULD BE USED AS NECESSARY INCLUDE WATERING DOWN DISTURBED AREAS, USING CALCEMUL CHARGE, AND COVERING LOADS ON PUMP TRUCKS.
24. PERIODICALLY CHECK ACCUMULATED SEDIMENT LEVELS IN THE SEDIMENT BASINS DURING CONSTRUCTION AND CLEAN ACCUMULATED SILT WHEN NECESSARY OR WHEN ONE FOOT OF SEDIMENT HAS ACCUMULATED OR PER SPECIFIC FLOORING ELEVATION. CLEAN ACCUMULATED SEDIMENT FROM CATCH BASIN Sumps AS NECESSARY AND AS DIRECTED BY THE CIVIL ENGINEER OR OWNER'S CONSTRUCTION REPRESENTATIVE. REMOVE ACCUMULATED SEDIMENT FROM BEHIND HAY BALES AND SILT FENCE WHEN LEVELS REACHES THE HEIGHT OF THE HAY BALE OR ONE FOOT AT SILT FENCE. DISPOSE OF SEDIMENT LEGALLY EITHER ON OR OFF SITE.
25. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION.
26. ALL PUMPING OF SEDIMENT LADEN WATER SHALL BE THROUGH A SEDIMENT CONTROL BMP, SUCH AS A PUMPED WATER FILTER BAG OR EQUIVALENT SEDIMENT REMOVAL FACILITY, OVER UNDISTURBED VEGETATED AREAS.
27. ALL EXCAVATED MATERIAL SHALL BE PLACED ON THE HIGH SIDE OF UTILITY AND STORM PIPE TRENCHES SO AS TO ALLOW THE TRENCH TO INTERCEPT ALL SILT LAIDEN RUNOFF.
28. CONTRACTOR SHALL ONLY EXCAVATE AS MUCH UTILITY AND STORM PIPE TRENCH WORK AS CAN BE COMPLETED, BACKFILLED AND STABILIZED IN ONE DAY SO AS TO LIMIT THE AMOUNT OF OPEN, DISTURBED TERRITORY.
29. ANY STOCKPILES OF STRIPPED MATERIALS ARE TO BE PERIODICALLY SPRAYED WITH WATER OR A CRUSTING AGENT TO STABILIZE POTENTIALLY WIND-BLOWN MATERIAL. HAIL ROADS BOTH INTO AND AROUND THE SITE ARE TO BE SPRAYED AS NECESSARY TO SUPPRESS DUST. TRUCKS HAULING MATERIAL SHALL BE COVERED TO AID IN THE CONTROL OF AIRBORNE DUST. DURING HIGH WIND EVENTS (20 TO 30 MPH SUSTAINED) CONSTRUCTION ACTIVITY SHALL BE LIMITED OR CEASED IF DUST CANNOT BE CONTROLLED BY WETTING.
30. AN AREA SHALL BE CONSIDERED TO HAVE ACHIEVED FINAL STABILIZATION WHEN IT HAS A MINIMUM OF 70% UNIFORM PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSEQUENT CHARACTERISTICS SUCH AS SLIDING OR OTHER MOVEMENTS.
31. MAINTAIN ALL PERMANENT AND TEMPORARY SEDIMENT CONTROL DEVICES IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD. UPON COMPLETION OF WORK SWEEP PARKING LOT AND REMOVE ALL TEMPORARY SEDIMENT CONTROLS AND MAINTAIN PERMANENT SEDIMENT CONTROL DEVICES IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
32. ALL SEDIMENTATION BASINS SHALL PROVIDE 134 CUBIC YARDS OF SEDIMENT STORAGE PER DISTURBED ACRE CONTRIBUTING TO THE BASIN.

1. SET POSTS AND "EYE" TRENCH SET POST DOWNHILL.
  2. ATTACH FILTER FABRIC TO THE POSTS AND TUCK UNDER THE TRENCH.
  3. BACKFILL THE TRENCH AND COMPACT THE EXCAVATED SOIL.
- ANGLE 10° UPSLOPE FOR SELF-CLEANING
- 12" MIN. DEPTH
- 100"
1. SET POSTS AND "EYE" TRENCH SET POST DOWNHILL.
2. ATTACH FILTER FABRIC TO THE POSTS AND TUCK UNDER THE TRENCH.
3. BACKFILL THE TRENCH AND COMPACT THE EXCAVATED SOIL.
- ANGLE 10° UPSLOPE FOR SELF-CLEANING
- 12" MIN. DEPTH
- 100"
1. SET POSTS AND "EYE" TRENCH SET POST DOWNHILL.
2. ATTACH FILTER FABRIC TO THE POSTS AND TUCK UNDER THE TRENCH.
3. BACKFILL THE TRENCH AND COMPACT THE EXCAVATED SOIL.
- ANGLE 10° UPSLOPE FOR SELF-CLEANING
- 12" MIN. DEPTH
- 100"

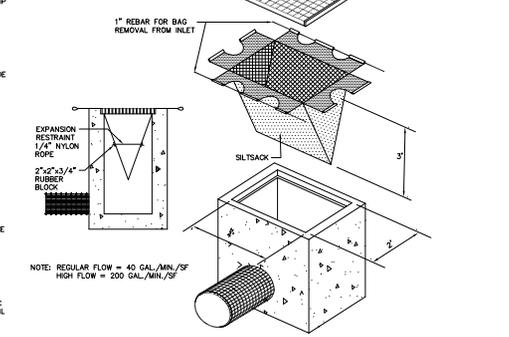


**GEOTEXTILE SILT FENCE**  
N.T.S. BLEC-007

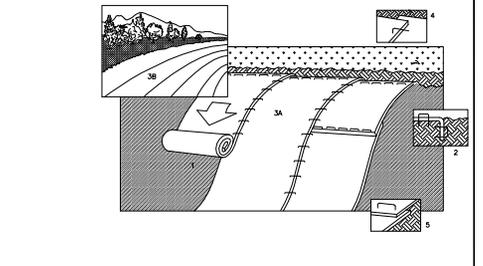
1. REPAIR FOR BAG REMOVAL FROM INLET.
  2. HAY BALE FILTER INSTALLATION AT CATCH BASIN AT LOW POINTS.
  3. HAY BALE FILTER INSTALLATION AT CATCH BASIN AT LOW POINTS.
- 1" REPAIR FOR BAG REMOVAL FROM INLET
2. HAY BALE FILTER INSTALLATION AT CATCH BASIN AT LOW POINTS.
3. HAY BALE FILTER INSTALLATION AT CATCH BASIN AT LOW POINTS.

**CATCH BASIN EROSION CONTROL**  
N.T.S. BLEC-012

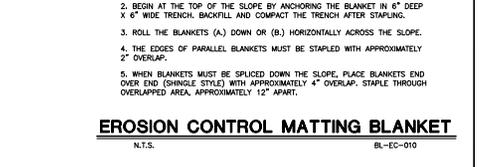
STORMWATER INLETS WHICH DO NOT DISCHARGE TO SEDIMENT TRAPS OR BASINS, MUST BE PROTECTED WITH PERIMETER SEDIMENT CONTROL MEASURES. SEDIMENT MUST BE REMOVED FROM INLET PROTECTION AFTER EACH STORM EVENT.



**SILTSACK DETAIL**  
N.T.S. BLEC-005



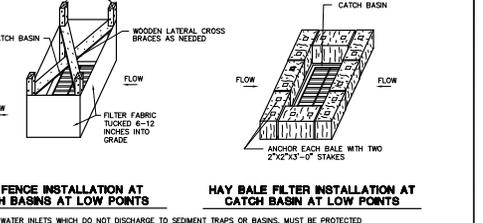
**EROSION CONTROL MATTING BLANKET**  
N.T.S. BLEC-010



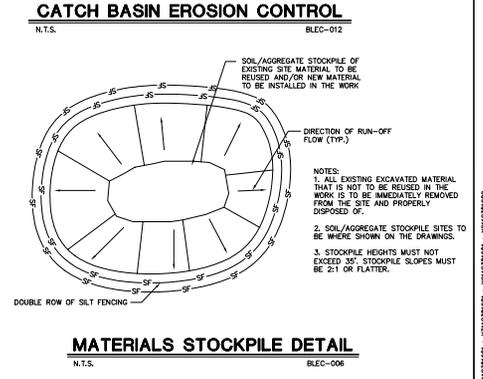
**CONSTRUCTION ENTRANCE**  
N.T.S. CTEC-001



**SILT FENCE INSTALLATION AT SILT BASINS AT LOW POINTS**  
N.T.S. BLEC-008



**CATCH BASIN EROSION CONTROL**  
N.T.S. BLEC-012



**MATERIALS STOCKPILE DETAIL**  
N.T.S. BLEC-006

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355 Research Parkway  
North Haven, CT 06460  
TEL: 203-633-1400  
WWW.RECOMPANIES.COM

**PROPOSED OFFICE BUILDING**  
NORTHFRONTAGE ROAD  
MANSFIELD, TOLLAND COUNTY, CONNECTICUT

DESIGNED BY: 98KB  
APPROVED BY: 98KB  
CHECKED BY: 98KB  
SCALE: NTS  
PROJECT NO: 11C13916  
DATE: 06/27/11  
CAD FILE: EC11C381001

TITLE: EROSION CONTROL NOTES AND DETAILS  
SHEET NO.

DATE: 11/20/11  
REVISED: 11/20/11  
NO. 1  
BY: 98KB  
CHECKED: 98KB  
SCALE: NTS  
PROJECT NO: 11C13916  
DATE: 06/27/11  
CAD FILE: EC11C381001

DATE: 11/20/11 11:24:00 AM USER: 98KB PLOT: 11C13916.DWG (11/20/11 11:24:00 AM)

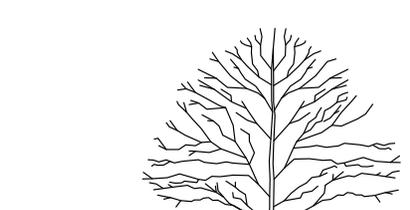
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## LANDSCAPE NOTES

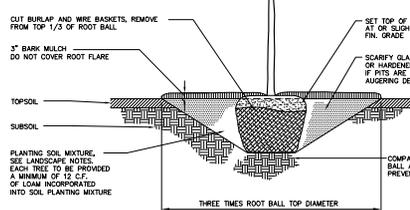
- THE LANDSCAPE PLAN AND DETAIL SHEET ARE FOR LANDSCAPING INFORMATION ONLY. REFER TO THE SITE LAYOUT PLAN, LIGHTING PLAN, GRADING PLAN AND UTILITIES PLAN FOR ALL OTHER INFORMATION.
- PLANTING LOCATIONS ARE APPROXIMATE AND ARE SUBJECT TO FIELD ADJUSTMENT DUE TO UTILITY LOCATIONS AND SITE CONDITIONS. CONTRACTOR SHALL LAY OUT THE WORK AS THE REVIEW, ACCEPTANCE, AND APPROVAL OF OWNER OR LANDSCAPE ARCHITECT PRIOR TO PLANTING.
- UTILITY LOCATIONS SHOWN IN THE DRAWINGS ARE APPROXIMATE. EXERCISE CARE WHEN DIGGING IN AREAS OF POTENTIAL CONFLICT WITH UTILITIES. CONTRACTOR SHALL VERIFY THE LOCATION IS RESPONSIBLE FOR ANY DAMAGE DUE TO CONTRACTOR'S NEGLIGENCE AND SHALL REPLACE OR REPAIR ANY DAMAGE AT CONTRACTOR'S EXPENSE.
- NO PLANT SHALL BE PLACED IN THE GROUND BEFORE ROUGH GRADING HAS BEEN COMPLETED.
- TOPSOIL SHALL BE INSTALLED AT A MINIMUM DEPTH OF 4". CONTRACTOR SHALL SUBMIT SAMPLES FROM EACH PROPOSED TOPSOIL SOURCE TO A CERTIFIED TESTING LABORATORY TO DETERMINE pH, FERTILITY, ORGANIC CONTENT AND MECHANICAL COMPOSITION. CONTRACTOR SHALL SUBMIT THE TEST RESULTS TO OWNER OR LANDSCAPE ARCHITECT FOR REVIEW. CONTRACTOR SHALL INCORPORATE AMENDMENTS FOR PROPER SOIL pH AND PLANT GROWTH AS RECOMMENDED BY TEST REPORTS AT NO INCREASE IN CONTRACT PRICE.
- 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.
- LANDSCAPE PLANTING DETAILS MUST BE FREE DRAINING. PAVEMENT, COMPACTED SOIL, AND BLASTED ROCK SHALL BE REMOVED FROM PLANTING BEDS AND LANDSCAPE ISOLATE 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.
- PLANTING SOIL MIXTURE FOR ALL PLANTINGS SHALL CONSIST OF: 1 PART PART MOIST OR COMPOST, 3 PARTS TOPSOIL, "TRANSPLANT 1-SIDEP" FERTILIZER / BOSTIMILANT / MYCORRHIZAL INOCULANT AS MANUFACTURED BY ROYLS, INC. OR AN APPROVED EQUIVALENT, AND LIME AND OTHER AMENDMENTS AS INDICATED BY SOIL ANALYSIS.
- PLANT REQUIREMENTS: ALL PLANTS SHALL CONFORM IN SIZE AND GRADE TO THE AMERICAN STANDARD FOR NURSERY STOCK, AND 2001 (LATEST EDITION). ALL PLANTS SHALL MEET THE ADDITIONAL REQUIREMENTS SET FORTH BELOW AND IN WRITTEN SPECIFICATIONS AS APPLICABLE. TREES AND SHRUBS SHALL BE PROVIDED BY OWNER OR LANDSCAPE ARCHITECT. TREES SHALL HAVE A CALIPER MEASUREMENT APPROVED BY OWNER OR LANDSCAPE ARCHITECT. THEY SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY; THEY SHALL BE HEALTHY, SYMMETRICAL, EVENLY AND DENSELY BRANDED, AND DENSELY FOLIATED WHEN IN LEAF. THEY SHALL BE FREE OF BARK INJURY, DISEASE, AND INSECT PESTS. ALL TREES SHALL HAVE A CALIPER MEASUREMENT 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. SIZE SHALL CONFORM TO THE MEASUREMENT SPECIFIED ON THE DRAWINGS. PLANTS LARGER THAN SPECIFIED MAY BE USED APPROVED. THE USE OF SUCH PLANTS SHALL NOT INCREASE THE CONTRACT PRICE. ALL OBSTACLE TREES PLANTED ALONG PARKING AREAS, SIDEWALKS AND PEDESTRIAN ACCESSES SHALL NOT BRANCH BELOW 7 FEET IF THE TREE CALIPER IS 1 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.
- 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, SHREDED BARK MULCH AGED AT LEAST SIX MONTHS FOR ALL BEDS.
- GUARANTEE: GUARANTEE ALL PLANTS AND LAWNS FOR A MINIMUM OF 1 YEAR TO BE ALIVE AND IN OWNER'S GROWING CONDITION AT THE END OF THE GUARANTEE PERIOD. THE GUARANTEE PERIOD FOR ALL PLANTS SHALL BEGIN UPON APPROVAL AS SPECIFIED UNDER SUB-TITLE 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 BE FREE OF DISEASE, INJURY, AND DAMAGE. REPLACEMENTS SHALL BE MADE 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.
- 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.
- UNLESS OTHERWISE NOTED IN DRAWING SET, NEW TRAILINES SHALL EQUAL CLEARING AND GRUBBING LIMITS.
- ALL DISTURBED AREAS NOT OTHERWISE DEVELOPED SHALL BE SEEDED WITH THE LAWN SEEDING MIXTURE.
- IF SHEET IS LESS THAN 24" X 36" IT IS A REDUCED PRINT AND SHOULD BE SCALED ACCORDINGLY.

## LANDSCAPE ZONING INFORMATION

ITEM #	ITEM	REQUIREMENTS	PROPOSED
1	MINIMUM INTERIOR LANDSCAPING	ONE TREE (2" MIN. CAL.) PER 10 PARKING SPACES (15 TREES)	15 TREES
		10 PERCENT MINIMUM INTERIOR LOT LANDSCAPING AREA	10.3 PERCENT



NOTE: PRUNE ONLY BROKEN AND DAMAGED LIMBS

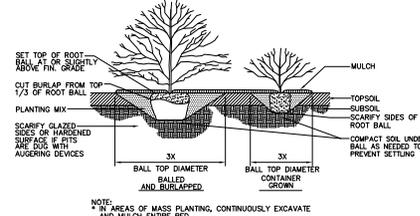


## TREE PLANTING

N.T.S. BLD-009

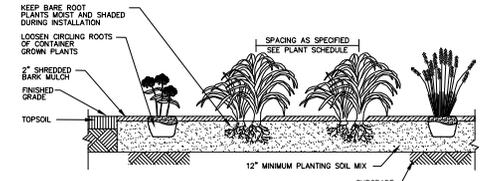
## SEED MIXES

- LAWN SEEDING MIXTURE:**  
15% PERENNIAL KYRGAESS (BLEND OF 3 IMPROVED HYBRIDS)  
25% 1/2" LEAF OR CREeping FESCUE (BLEND OF 3 IMPROVED HYBRIDS)  
60% KENTUCKY BLUEGRASS (BLEND OF 3 IMPROVED HYBRIDS)  
SEEDING RATE: 9 LBS./1000 SF.  
SEEDING DATES: AUGUST 15 - OCTOBER 1 AND APRIL 15 - JUNE 15, UNLESS OTHERWISE APPROVED BY OWNER.
- SLOPE SEEDING MIXTURE (3:1 SLOPES OR GREATER):**  
CREeping RED FESCUE (FESTUCA RUBRA)  
EXPRESS PERENNIAL RYEGRASS (LULIUM)  
BIRDFOOT TREFLE (LOTUS CORNICULATUS VAR. ARVENSIS)  
ALFALFA CLOVER (TRIFOLIUM HYBRIDUM)  
RED TOP (AGROSTIS GYNERATA)  
LEGUMINOUS SEED TO BE INOCULATED  
PURE LIVE SEED: 96-98  
FERTILIZER TYPE: 10-20-20  
FERTILIZER RATE OF APPLICATION: 400 LBS./ACRE  
LIME RATE: 500 LBS./ACRE (PULVERIZED AGR. LIMESTONE)  
MULCH TYPE: WOOD CELLULOSE FIBER  
MULCH RATE: 1400 LBS./ACRE  
ANCHOR MATERIAL: EC3000 GIBBER TACKPHER  
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



## SHRUB PLANTING

N.T.S. BLD-005



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

## ANNUAL/PERENNIAL AND GROUND COVER BEDS

N.T.S. BLD-002

## LANDSCAPE PLANT SCHEDULE

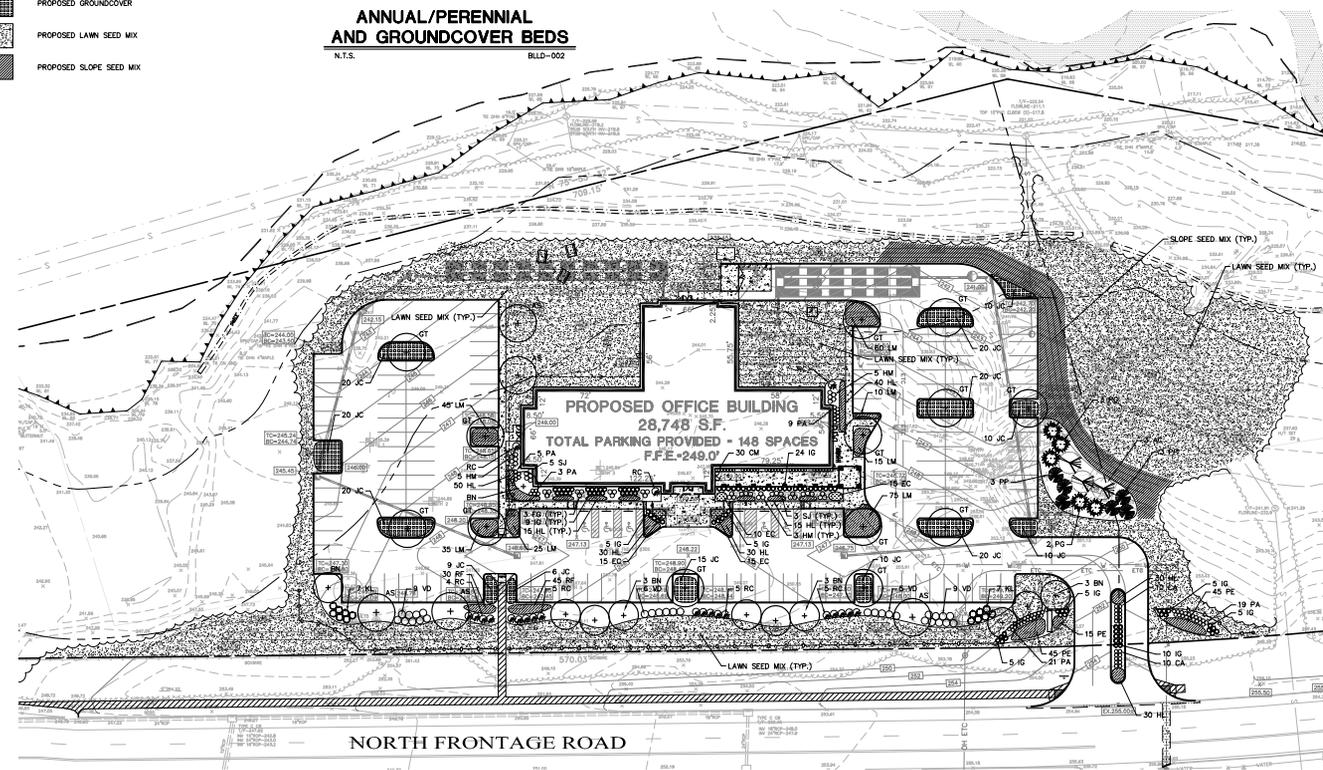
TREES		KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
AC	3	Alnus incana	3	White Fir	B&B	8'-10' HT.	-	
AS	5	Acer saccharum 'Green Mountain'	5	Sugar Maple	B&B	2 1/2" - 3" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCHING HT.	
BN	11	Betula alba 'Verticillata'	11	River Birch	B&B	8'-10' HT.	MULTI-STEM	
CT	15	Cedrela odorata 'Harris'	15	Honeylocust	B&B	2 1/2" - 3" CAL.	UNIFORM, WELL DEV. 6' MIN. BRANCHING HT.	
FC	5	Ficus glauca	5	White Spruce	B&B	6'-7' HT.	-	
FF	6	Ficus purpurea	6	Colorado Spruce	B&B	6'-7' HT.	-	

SHRUBS		KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
FS	12	Fothergilla gardenii	12	White Fothergilla	CONT.	24" - 30" HT.	UNIFORM, WELL DEV. 3' O.C.	
HM	22	Hydrangea macrophylla 'Endless Summer'	22	Big Leaf Hydrangea	CONT.	24" - 30" HT.	UNIFORM, WELL DEV. 3' O.C.	
IG	91	Ilex glabra 'Stamwood'	91	Shrub Holly	CONT.	24" - 30" HT.	UNIFORM, WELL DEV. 3' O.C.	
KL	14	Kalmia latifolia 'Vivipara Foli'	14	Mountain Laurel	CONT.	24" - 30" HT.	UNIFORM, WELL DEV. 3' O.C.	
RC	23	Rhododendron cataractarum 'English Roseum'	23	Rhododendron	CONT.	30" - 36" HT.	UNIFORM, WELL DEV. 3' O.C.	
SJ	14	Spiraea vanutensis 'Anthony Water'	14	Anthony Water Spirea	CONT.	24" - 30" HT.	UNIFORM, WELL DEV. 3' O.C.	
UD	29	Ulmus dentatus	29	American Elm	CONT.	30" - 36" HT.	UNIFORM, WELL DEV. 3' O.C.	

PERENNIALS, GROUNDCOVERS, ORNAMENTAL GRASSES		KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	COMMENTS
CA	1	Carex acutiformis 'Ice Cream'	1	Feather Reed Grass	CONT.	18" - 24" HT.	24" O.C.	
CM	30	Carex musklingensis	30	Palm Sedge	CONT.	18" - 24" HT.	24" O.C.	
EC	55	Echinacea purpurea 'Magnus'	55	Purple Coneflower	CONT.	18" - 24" HT.	18" O.C.	
HL	260	Hebe x exoniensis 'Stella d'Oro'	260	Stella D'Oro Hebe	CONT.	6" - 12" HT.	18" O.C.	
JC	100	Juncus horizontalis 'Tor Hobart'	100	Creeping Juniper	CONT.	6" - 12" HT.	4" O.C.	
LM	265	Limonium carolinianum	265	Limonium	CONT.	6" - 12" HT.	18" O.C.	
PA	59	Panicum capillare	59	Coastal Broomgrass	CONT.	6" - 12" HT.	18" O.C.	
PE	105	Perovskia atriplicifolia 'Little Spire'	105	Russian Sage	CONT.	18" - 24" HT.	24" O.C.	
RF	75	Rudbeckia hirta 'Goldstrum'	75	Black-eyed Susan	CONT.	12" - 18" HT.	24" O.C.	



GRAPHIC SCALE  
0 20 40  
SCALE IN FEET

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ARCHITECTURE  
PLANNING  
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LAND SURVEYING  
ENVIRONMENTAL SCIENCES

PROPOSED OFFICE BUILDING  
NORTH FRONTAGE ROAD  
MANSFIELD, TOLLAND COUNTY, CONNECTICUT

Desig. W.E.V.  
Rev. W.E.V.  
No. Date  
Scale 1"=40'  
Project No. 11C3B16  
Date 06/27/16  
CAD File: LL11C3B1601  
Title LANDSCAPE PLAN  
Sheet No.

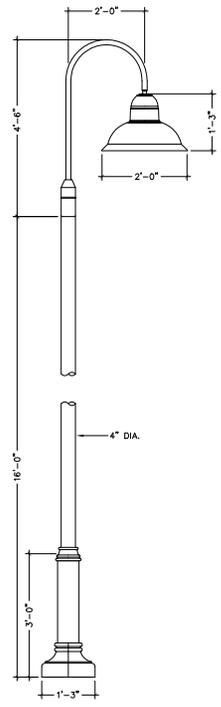
LL-1



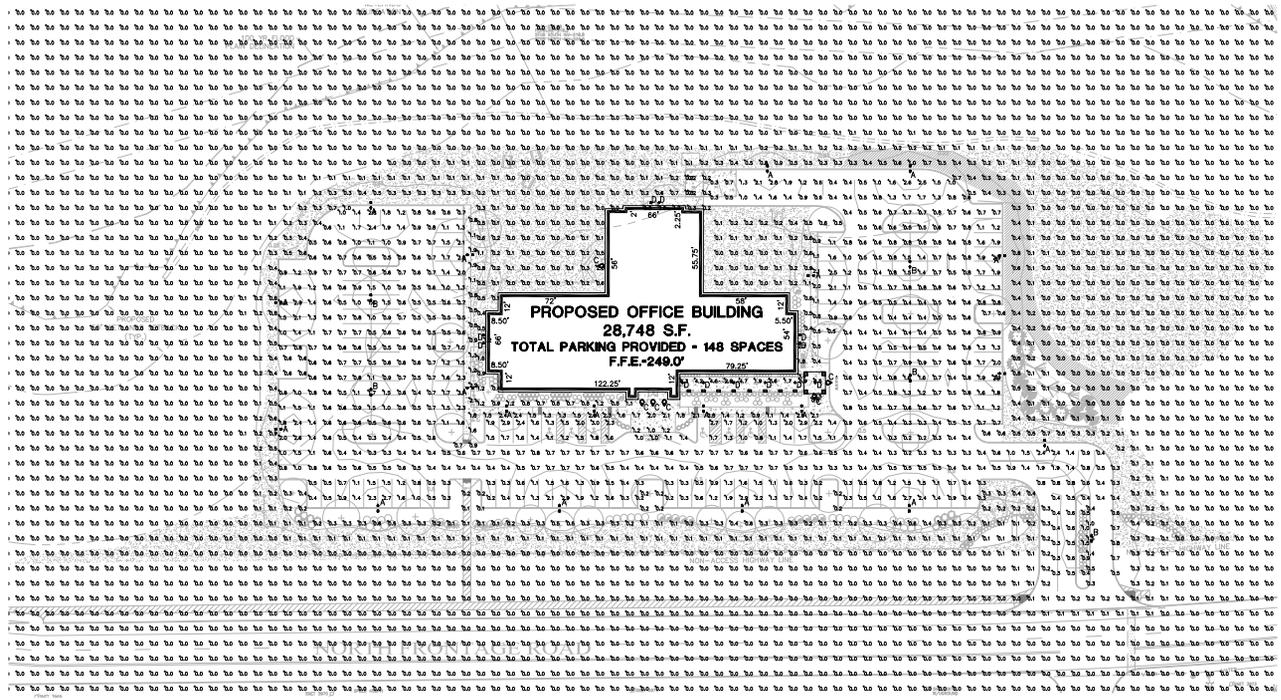
LUMINAIRE SCHEDULE							
Symbol	Label	Qty	Catalog Number	Description	Lamp	File Lumens LLF Watts	
⊕	A	19	UCM-13-60LED-BW-FTC	UNIVERSE SERIES MEDIUM SCALE POST TOP LUMINAIRE WITH SPECULAR REFLECTORS AND CLEAR FLAT GLASS LENS, STAINLESS STEEL HARDWARE CAPTIVE FASTENERS	60 LEDS IN 30 ARRAYS OF 3 EACH. LUMINAIRE OUTPUT: 3488 lumens	UCM-13-60LED-BW-FTC.GIES	3505 1.00 71.6
⊕	B	5	UCM-15-60LED-BW-FTC	UNIVERSE SERIES MEDIUM SCALE POST TOP LUMINAIRE WITH SPECULAR REFLECTORS AND CLEAR FLAT GLASS LENS, STAINLESS STEEL HARDWARE CAPTIVE FASTENERS; 5100K	60 LEDS IN 30 ARRAYS OF 3 EACH. LUMINAIRE OUTPUT: 3207 lumens	UCM-15-60LED-BW-FTC.GIES	3212 1.00 70.4
⊙	C	6	UCS-ANG-12LED-BW-5100K	SMALL SCALE UNIVERSE LUMINAIRE; DIE-CAST ALUMINUM BALLAST HOUSING AND LENS FRAME; SPUN ALUMINUM ANGLE; HOOD, COATED GLASS; SOBER; NON-OUTFIT	12 LEDS; 5100K; LUMEN RATING=1036	UCS-ANG-12LED-BW-5100K	1085 1.00 32
⊙	D	12	LF4LED 6UFLED5 30K	4" LUMINAIRE LED Downlight Semi-diffuse Alzak Reflector	PHILIPS FORTIMO DLM 1100	3332.les	916 1.00 18.5

STATISTICS						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Canopy	+	4.3 fc	6.5 fc	1.7 fc	3.8:1	2.5:1
Parking Area	+	0.9 fc	3.1 fc	0.2 fc	15.5:1	4.5:1
Spill Area	+	0.0 fc	2.0 fc	0.0 fc	N / A	N / A
Walk Ways	+	1.5 fc	2.8 fc	0.5 fc	5.6:1	3.0:1
Walk Ways	+	0.7 fc	2.6 fc	0.2 fc	13.0:1	3.5:1
Walk Ways	+	1.4 fc	3.4 fc	0.4 fc	8.5:1	3.5:1

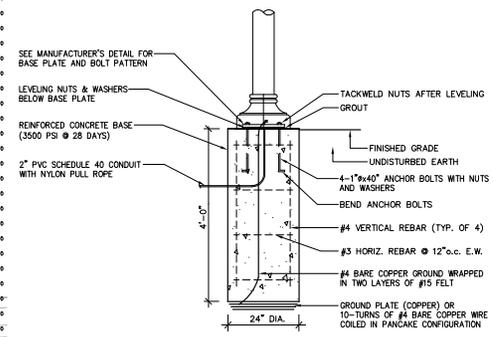
NOTE:  
 ALL EXTERIOR LIGHTING PHOTOMETRIC CALCULATIONS FOR THIS PROJECT ARE DONE USING VISUAL PROFESSIONAL EDITION SOFTWARE.



**DECORATIVE STREET LIGHT**



NOTE:  
 CONTRACTOR RESPONSIBLE FOR INSTALLATION OF PRE-CAST CONCRETE BASES, REINCHING AND LAYING OF CONDUIT WITH SWEEPS IN AND OUT OF BASE, A DRIVEN GROUND ROD WITH BARE COPPER WIRE AT EACH BASE, AND INSTALLATION OF THE POLE AND LAMPS. CONTRACTOR RESPONSIBLE FOR PROWING AND INSTALLATION OF WIRE FROM THE LIGHTING PANEL TO EACH POLE LAMP.



**DECORATIVE STREET LIGHT BASE**

**FOR PERMITTING PURPOSES ONLY  
 NOT RELEASED FOR CONSTRUCTION**

**PROPOSED OFFICE BUILDING**  
 NORTH FRONTAGE ROAD  
 MANSFIELD, TOLLAND COUNTY, CONNECTICUT

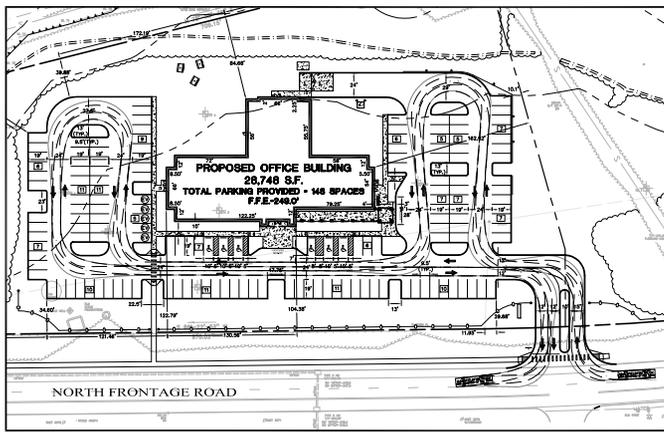
Revisions:  
 No. Date  
 1  
 08/27/16  
 LP11C381601

Designed: R.Z.  
 Drawn: R.Z.  
 Checked: R.Z.  
 Approved: R.Z.  
 Scale: 1"=40'  
 Project No: 11C3816  
 Date: 08/27/16  
 CAD File: LP11C381601

Title: **SITE LIGHTING PLAN**

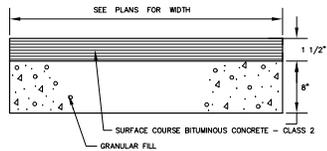
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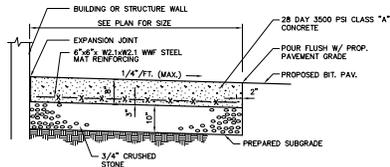
**MANSFIELD FIRE DEPARTMENT TRUCK TURNING MOVEMENTS**

SCALE: 1"=60'



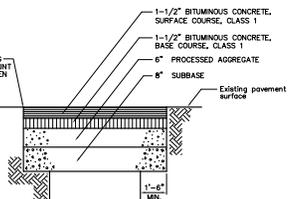
**BITUMINOUS WALK**

N.T.S. CTR-002



**CONCRETE PAVEMENT**

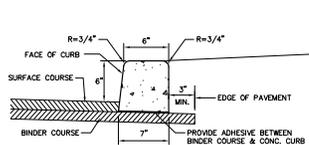
N.T.S. BLPC-002



**PAVEMENT REPAIR OVER TRENCH**

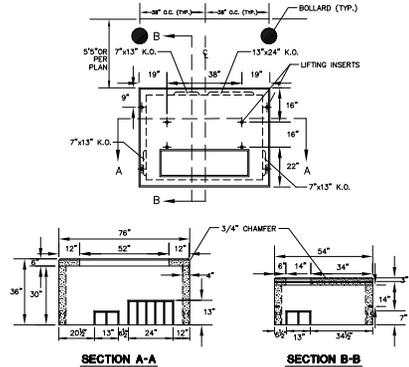
N.T.S.

- NOTE: 1) ALL BITUMINOUS CONCRETE, PROCESSED AGGREGATE, SUBBASE AND LIQUID BITUMEN SHALL CONFORM TO THE MATERIALS, EQUIPMENT AND CONSTRUCTION REQUIREMENTS AS PER STATE SPECS.
- 2) THE CONTRACTOR SHALL MAINTAIN A MINIMUM 15' WIDE TRAVELWAY AT ROAD CROSSINGS AT ALL TIMES DURING CONSTRUCTION. THE USE OF STEEL PLATE IS PERMITTED, PER CONDOT USE STEEL PLATE REQUIREMENTS AND RESTRICTIONS.



**EXTRUDED CONCRETE CURB**

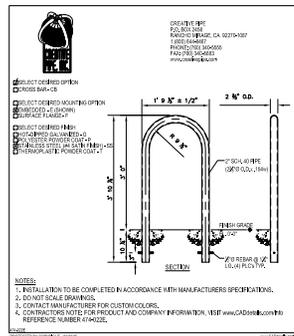
N.T.S. BLPC-005



**TRANSFORMER PAD**

N.T.S.

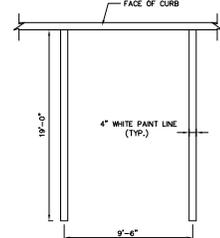
- NOTE: 1. CONCRETE COMPRESSIVE STRENGTH SHALL BE 4000 PSI AT 28 DAYS  
 2. SHALL MEET ALL PROVISIONS OF ELECTRIC CO.  
 3. SHALL BE INSTALLED 2' OFF CURB AND PROTECTED BY BOLLARDS.  
 4. SEE DETAIL FOR STEEL BOLLARD INSTALLATION  
 5. CONTRACTOR SHALL CONFIRM PAD SIZE AND BOLLARD LOCATION WITH ELECTRIC COMPANY



**INVERTED 'U' BICYCLE RACK**

N.T.S.

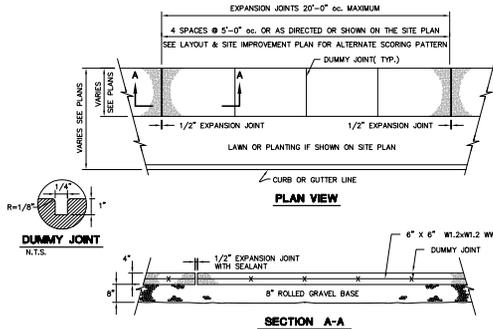
- NOTE: 1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.  
 2. DO NOT SCALE DRAWINGS.  
 3. CONTACT MANUFACTURER FOR CUSTOM COLORS.  
 4. CONTRACTOR NOTE FOR PRODUCT AND COMPANY INFORMATION, VISIT WWW.CADSWORLD.COM FOR REFERENCE NUMBER #1422.



- NOTE: 1. PROVIDE 2 COATS OF PAINT ON ALL SURFACES.  
 2. SEE PLAN FOR ACTUAL SPACE LOCATION AND DIMENSIONS.

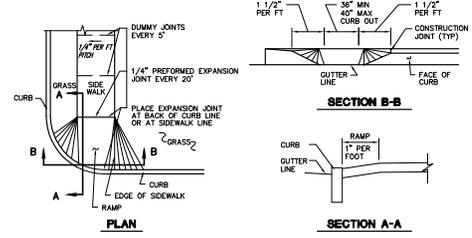
**TYPICAL PARKING SPACE DETAIL**

N.T.S. BLPC-003



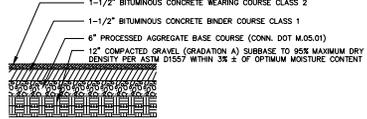
**CONCRETE SIDEWALK DETAIL**

N.T.S. BLSR-001



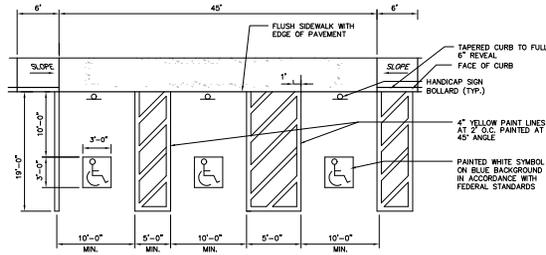
**SIDEWALK RAMP DETAIL**

N.T.S. BLSR-002



**STANDARD DUTY BITUMINOUS CONCRETE PAVEMENT**

N.T.S.

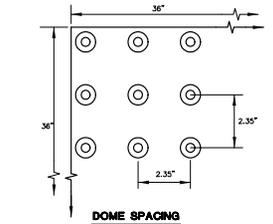


**ACCESSIBLE PARKING SPACE AND RAMP DETAIL**

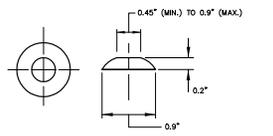
N.T.S.

- NOTE: 1. SEE SITE PLAN FOR ACCESSIBLE SPACE LOCATIONS.  
 2. PROVIDE 2 COATS OF PAINT ON ALL SURFACES.

BLPC-004



**DOMES SPACING**

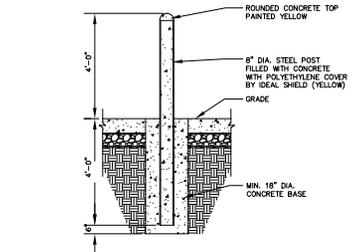


**DOMES SECTION**

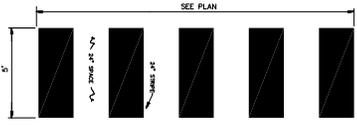
N.T.S.

**SIDEWALK RAMP DETECTABLE WARNING**

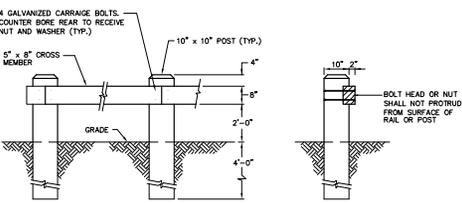
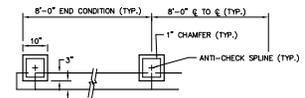
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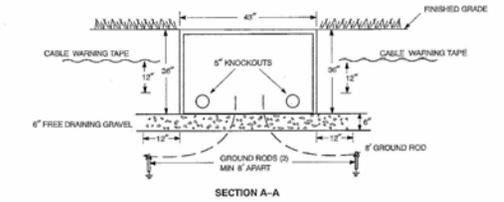
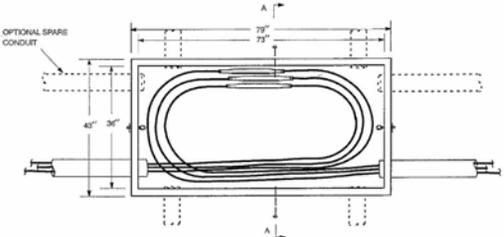
**PROTECTIVE POST (BOLLARD) DETAIL**  
N.T.S. BLS-005



**INTERNATIONAL HANDICAP SYMBOL**  
N.T.S. CTSR-001



**TIMBER GUIDE RAIL**  
N.T.S. BGR-002



**Notes**

1. Install polymer concrete vault. Vault is rated for occasional vehicular traffic, however, do not install in roadway applications. Vault shall be used to splice one three-phase cable; maximum #4/0 AL.
2. The excavation shall be carried to a minimum depth of 6' below the bottom and 12' beyond the edge.
3. Install two 6" galvanized steel ground rods adjacent to the vault and ground per DTR 78.151. Provide #6 Cu bond for communications companies.
4. Select splices from DTR 33.601-602.
5. Install warning tape 12" above top of conduit.
6. Install schedule 40 PVC conduit, minimum 4" diameter. Install conduit plugs in spare conduits.

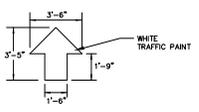
ORIGINAL	DATE	BY	FOR
ISSUED			
APPROVED			
REVISION			
DATE			

**VAULT - POLYMER CONCRETE - FOR SPLICING THREE-PHASE PRIMARY - DIRECT-BURIED CONDUIT SYSTEM** CTMA

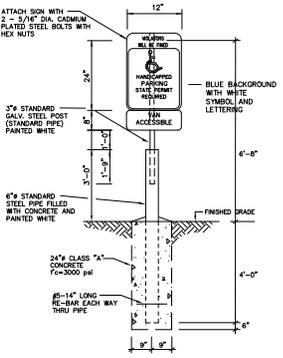
NORTHEAST UTILITIES	CONSTRUCTION STANDARD	DTR 51.601
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- NOTE:**
1. MARKINGS FOR STREET SHALL BE ACCORDING TO REQUIREMENTS AS OUTLINED IN SECTION 95 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.
  2. THESE MARKINGS ARE TO BE PAINTED REFLECTIVE WHITE.

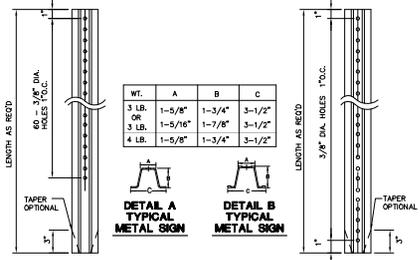
**CROSSWALK MARKINGS**  
N.T.S.



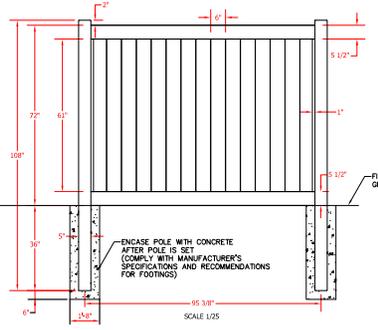
**TYPICAL PAVEMENT MARKINGS**  
N.T.S. ZPC-061



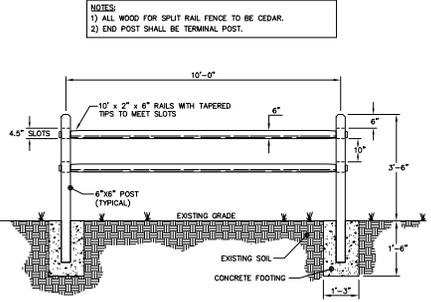
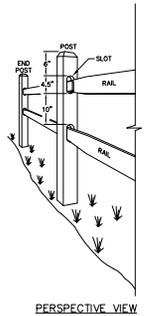
**HANDICAP SIGN BOLLARD DETAIL**  
N.T.S.



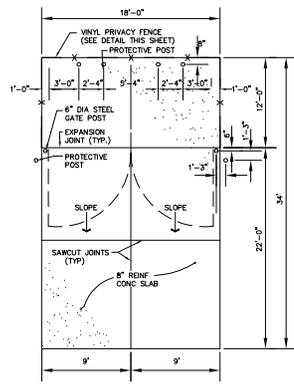
**DETAIL A HOLE LOCATION**  
**DETAIL B HOLE LOCATION**  
**TYPICAL METAL SIGN POSTS**  
N.T.S. BLS-001



**6' HIGH PVC PRIVACY FENCE DUMPSTER ENCLOSURE**  
N.T.S.



**SPLIT RAIL FENCE**  
N.T.S.

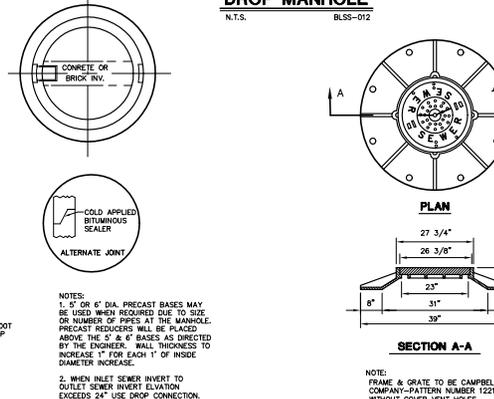
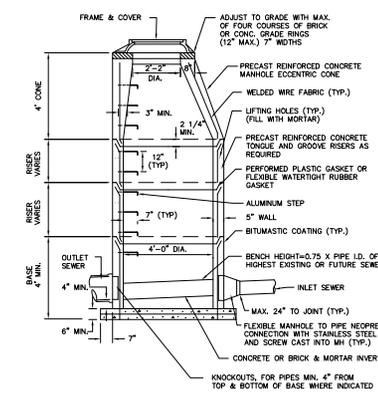
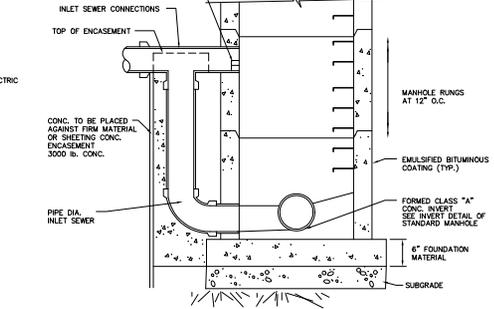
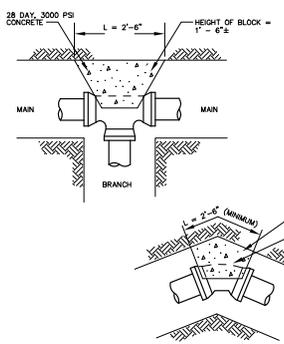
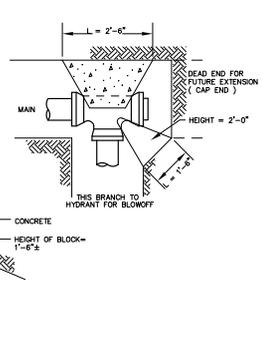
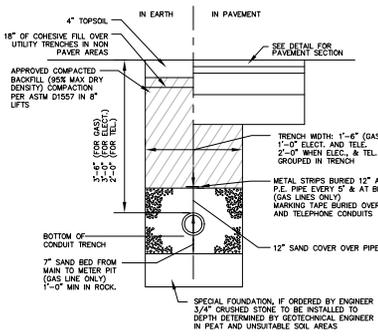
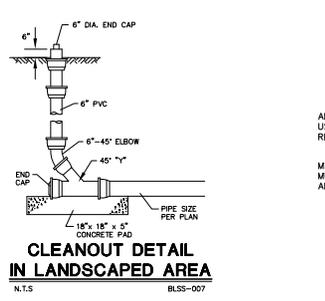
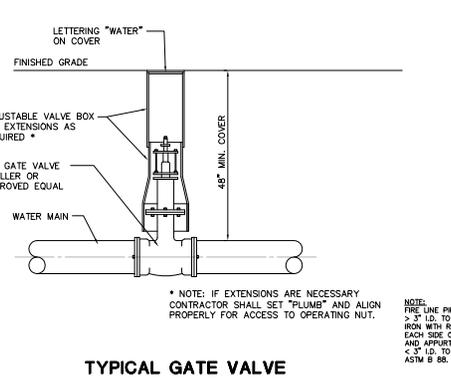
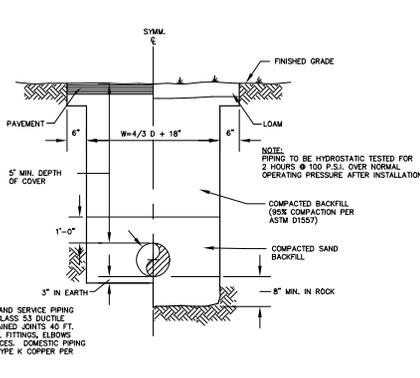
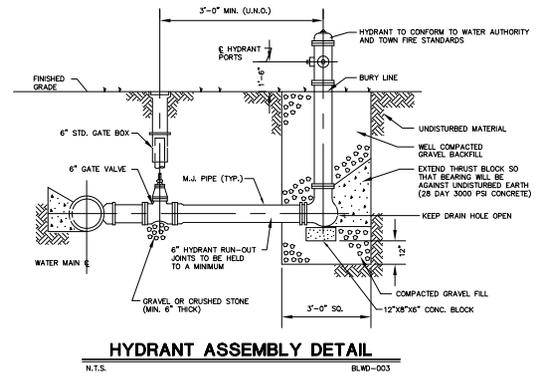


**TRASH ENCLOSURE PLAN**  
N.T.S. BLS-004

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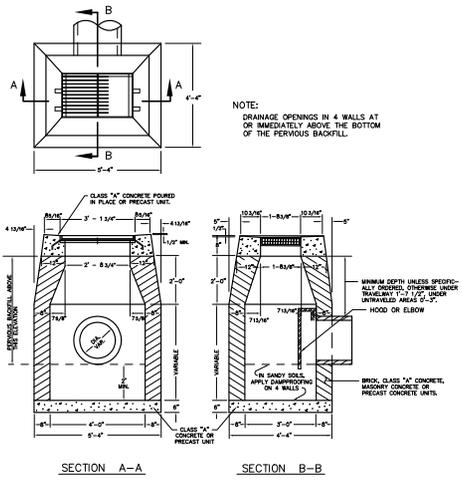
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Checked:  
Approved:  
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Project No.: 11C3816  
Date: 06/27/11  
CAD File: DN11C381601  
Title: DETAILS  
Sheet No.

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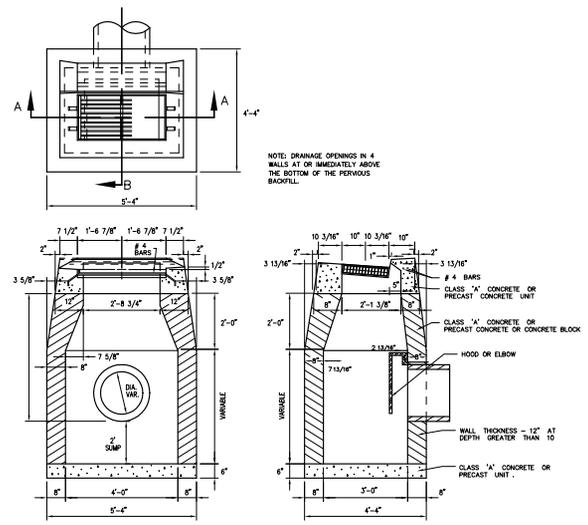


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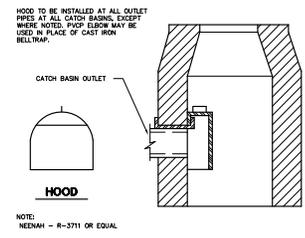
THESE DRAWINGS SHALL NOT BE UTILIZED BY ANY PERSON, FIRM OR CORPORATION WITHOUT THE SPECIFIC WRITTEN PERMISSION OF BL COMPANIES



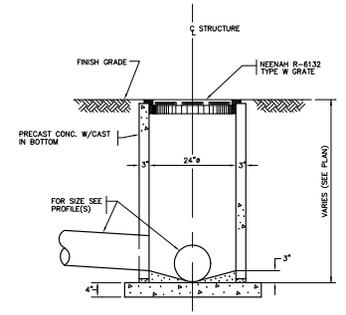
**TYPE 'C-L' CATCH BASIN**  
N.T.S. ZDD-028



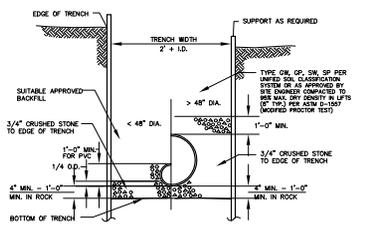
**TYPE 'C' CATCH BASIN WITH HOOD**  
N.T.S. CTD0-001



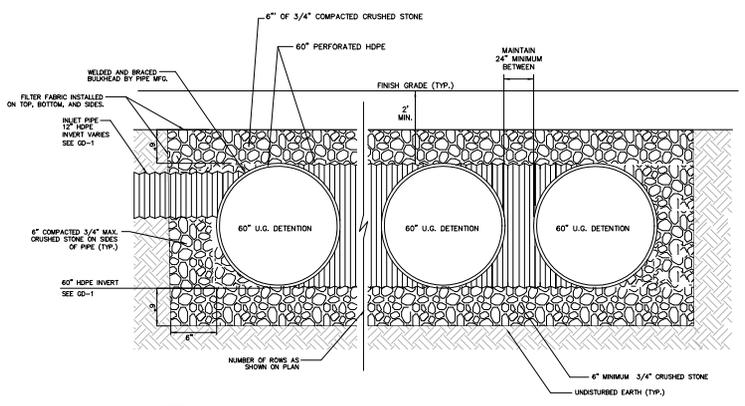
**HOODED OUTLET**  
N.T.S. CTD0-004



**LAWN DRAIN DETAIL**  
N.T.S. ZDD-013

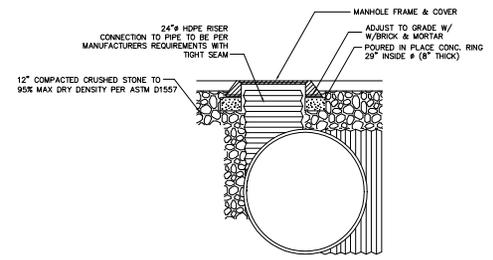


**TYPICAL STORM SEWER TRENCH SECTION**  
N.T.S. BLDD-004



NOTES:  
1. CONTRACTOR SHALL PERFORM THE PIPE INSTALLATION AND BACKFILL OPERATIONS IN ACCORDANCE WITH PIPE MANUFACTURER'S INSTRUCTIONS. IT IS IMPERATIVE THAT THE BACKFILL AROUND THE HDPE PIPE BE PLACED AND COMPACTED IN ACCORDANCE WITH THOSE INSTRUCTIONS.  
2. REFER TO GRADING AND DRAINAGE PLAN (GD-1) FOR LAYOUT AND ADDITIONAL DETAILS.

**UNDERGROUND INFILTRATION SYSTEM**  
N.T.S.



**TYPICAL MANHOLE INSPECTION PORT WITHOUT STRUCTURE**  
N.T.S.

**FOR PERMITTING PURPOSES ONLY  
NOT RELEASED FOR CONSTRUCTION**

DATE: 08/27/11 2:26PM  
 DRAWN BY: BKB  
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 DATE: 08/27/11  
 CAD FILE: DN11C381601



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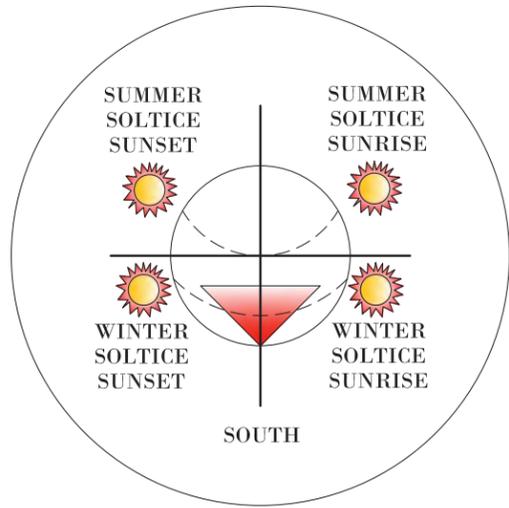
**NEW ENGLAND DESIGN**

25 Ledgebrook Drive Mansfield CT 06250 860-423-0334  
NewEnglandDesign.com

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UNITED SERVICES, INC.

POSSIBLE FUTURE DEVELOPMENT



PROPOSED 50' WETLAND SETBACK AS RECEIVED ON ADJACENT PROPERTY.

OPTIONAL GEOTHERMAL WELL FIELD

OPTIONAL SOLAR PANELS GENERATOR

PROPOSED INCREASE TO 50' WETLAND SETBACK AT EXISTING DRAINAGE SWALE LOCATION.

WETLANDS BOUNDRY

EXISTING CITY SEWAR

MANSFIELD CITY ROAD

ENTRANCE TO ROUTE 6 BYPASS

NORTH FRONTAGE ROAD

FUTURE PARKING EXPANSION

FUTURE BUILDING EXPANSION

PROPOSED 2 STORY 28,000 SF OFFICE BUILDING

PROPOSED PARKING 150 +/- SPACES

HIGH STREET



AERIAL SITE PLAN NOT TO SCALE

PRELIMINARY - NOT FOR CONSTRUCTION

NEW OFFICE BUILDING



United Services, Inc.  
Creating healthy communities



PROJECT PLANNERS

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PROJECT NO. 2011-XXX
DATE 06-27-11
DRAWN BY
CHECKED BY KN

SCALE 1" = 50'
REV
REV
REV

CONCEPT SITE PLAN

P-1



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PROJECT PLANNERS

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PROPOSED FIRST FLOOR PLAN

PROJECT NO 2011-XXX	SCALE 1/8" = 1'-0"
DATE 06-27-11	REV
DRAWN BY JE	REV
CHECKED BY KN	REV

PROPOSED FIRST FLOOR PLAN- 16,340SF  
TOTAL BUILDING GROSS SF-28,748 sf

PRELIMINARY - NOT FOR CONSTRUCTION

PROPOSED FIRST FLOOR PLAN

P-2



PROPOSED SECOND FLOOR PLAN 12,408 SF

PRELIMINARY - NOT FOR CONSTRUCTION

PROPOSED  
SECOND FLOOR  
PLAN

P-3

PROJECT NO	2011-XXX
DATE	06-27-11
DRAWN BY	JE
CHECKED BY	KN

SCALE	1/8" = 1'-0"
REV	
REV	
REV	

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SOUTH ELEVATION



EAST ELEVATION

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PROPOSED BUILDING ELEVATIONS

PROJECT NO	2011-XXX
DATE	06-27-11
DRAWN BY	
CHECKED BY	KN

SCALE	1/8" = 1'-0"
REV	
REV	
REV	



OPTIONAL GEOTHERMAL HVAC  
SYSTEM WELL LOCATION

NORTH ELEVATION



WEST ELEVATION

PRELIMINARY - NOT FOR CONSTRUCTION

NEW OFFICE  
BUILDING



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PROJECT NO 2011-XXX
DATE 06-27-11
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SCALE 1/8" = 1'-0"
REV
REV
REV

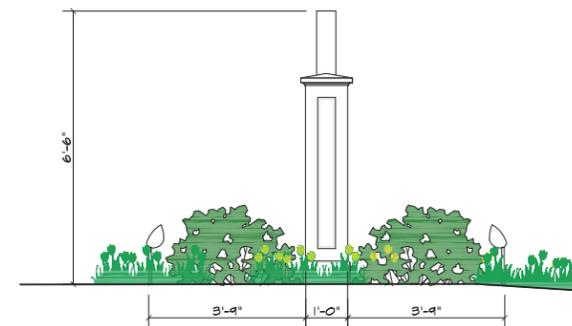
PROPOSED  
BUILDING  
ELEVATIONS

P-5



UNITED SERVICES SIGN SIDE ELEVATION  
1/4" = 1'-0"

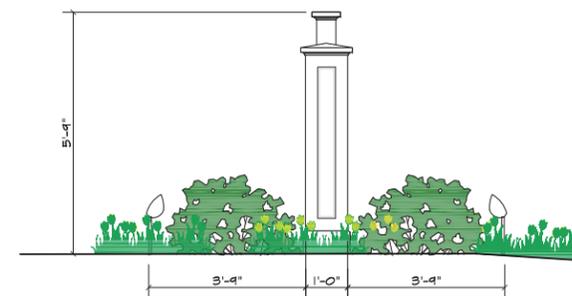
UNITED SERVICES SIGN END ELEVATION  
1/4" = 1'-0"



UNITED SERVICES SIGN SIDE ELEVATION  
1/2" = 1'-0"

UNITED SERVICES SIGN END ELEVATION  
1/2" = 1'-0"

NOTE: REFER TO SITE PLAN FOR SIGN LOCATION.



FUTURE ENTRANCE SIGN SIDE ELEVATION  
1/2" = 1'-0"

FUTURE ENTRANCE SIGN END ELEVATION  
1/2" = 1'-0"

NOTE: FUTURE ENTRANCE SIGN TO BE LOCATED ON EAST SIDE OF ENTRANCE DRIVE AFTER LOT SPLIT.

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PROJECT NO  
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KN

SCALE  
AS NOTED  
REV  
REV  
REV

PROPOSED  
ENTRANCE  
SIGN

P-6