FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	0146001	52	92

BENNINGTON CONNECTOR S.H. 98-2

P.I.N. 1306.60

WHITEHOUSE BRIDGE - VERMONT STATE LINE S.H. 1426

RENSSELAER COUNTY

WETLAND CREATION NOTES:

1.) CONTRACTOR SHALL HAVE PREVIOUSLY INSTALLED AT LEAST THREE (3) SIMILAR SIZE WETLAND MITIGATION, CREATING AND RESTORATION PROJECTS IN THE PAST FIVE (5) YEARS.

2.) PRIOR TO CONSTRUCTION IN ANY WETLAND AREA, ALL CONSTRUCTION EQUIPMENT SHALL BE THOROUGHLY WASHED TO MINIMIZE THE POTENTINAL FOR INTRODUCING PROPAGULES OF UNDESIRABLE NON-NATIVE SPECIES INTO WETLANDS.

3.) PRIOR TO THE START OF CLEARING AND GRUBBING AND/OR ANY CONSTRUCTION ADJACENT TO THE WETLANDS, THE NYSDOT REGIONAL LANDSCAPE ARCHITECT SHALL VERIFY THE LOCATION(S) OF THE AREA(S) TO BE PRESERVED, THE TREES TO BE SAVED, AND THE LOCATION OF ITEM 08615.0402 M TREE/VEGETATION PROTECTION BARRIER, AND ALL OTHER 209.XX M ITEMS (SILT FENCE, ETC.). NO CONSTRUCTION EQUIPMENT SHALL BE ALLOWED WITHIN THE BOUNDARIES OF THE WETLAND AREAS TO BE PRESERVED AS SHOWN ON THE PLANS AND AS DELINEATED WITH TREE/VEGETATION PROTECTION BARRIER AND SILT FENCE. NO REMOVAL OF ANY TREES OR OTHER PLANT MATERIAL SHALL BE ALLOWED WITHIN THESE AREAS WITHOUT THE APPROVAL OF THE RESIDENT ENGINEER. SILT FENCE SHALL BE PLACED AS CLOSE AS POSSIBLE TO THE EDGE OF THE EXISTING WETLANDS TO BE PRESERVED WITHOUT INTERFERING WITH GRADING OPERATIONS FOR THE NEW WETLAND.

4.) CONTRACTOR SHALL INSTALL THE EROSION CONTROL MEASURES AS SHOWN ON THE WETLAND MITIGATION CONTRACT DRAWINGS AND IN ACCORDANCE WITH THE "NEW YORK GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL".

5.) ALL EROSION CONTROL MEASURES ARE TO BE INSPECTED DAILY FOR PROPER FUNCTIONING. ANY DAMAGED OR NON-FUNCTIONING DEVICES SHALL BE REPLACED IMMEDIATELY. NO EROSION AND SEDIMENT CONTROL DEVICES SHALL BE REMOVED WITHOUT APPROVAL OF THE RESIDENT ENGINEER.

6.) AFTER CLEARING AND GRUBBING, THE CONTRACTOR SHALL STRIP WETLAND TOPSOIL, ITEM 01613.02 M, TO A MINIMUM DEPTH OF 150 mm IN AREAS SHOWN ON DWGS. WM-1 AND P-2.

7.) THE CONTRACTOR SHALL VERIFY THE SEASONAL HIGH GROUND WATER ELEVATION IS AT A SUFFICIENT DEPTH TO SUPPORT WETLAND VEGETATION WITHIN THE WETLAND CREATION AREAS. IF THE SEASONAL HIGH GROUND WATER ELEVATION IS NOT SUFFICIENT THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER OF THIS CONDITION.

8.) PRIOR TO FINISH GRADING OF THE WETLAND MITIGATION AREAS, THE NYSDOT REGIONAL LANDSCAPE ARCHITECT SHALL BE NOTIFIED TO VERIFY THAT SUFFICIENT WATER DEPTH WILL BE OBTAINED AT THE BOTTOM ELEVATIONS SPECIFIED. FURTHER EXCAVATION AND/OR FILLING MAY BE ORDERED AND IS TO BE CARRIED OUT UNDER ITEMS 203.02 M AND 203.03 M.

9.) THE BASE OR FLOOR OF THE NEW WETLAND IS SHOWN AS A FINISHED GRADE. THIS REQUIRES AN UNDERCUT OF A DEPTH TO BE DETERMINED, AND THE SPREADING OF WETLAND TOPSOIL, AT 300 mm MINIMUM, TO FINISH GRADE. WETLAND TOPSOIL WILL COME FROM AREAS SHOWN ON DWGS. WM-1 AND P-2. IT IS PREFERABLE TO MOVE THIS MATERIAL DIRECTLY FROM THE SALVAGE SITE TO THE NEW WETLAND, BUT STOCKPILING WILL BE PERMITTED. THE LOCATION AND SIZE OF STOCKPILES MUST BE PRE-APPROVED. WETLAND TOPSOIL IN AN UNWORKABLE CONDITION, DUE TO MOISTURE, FROST, OR OTHER CONDITIONS, SHALL NOT BE PLACED UNTIL IT IS SUITABLE FOR SPREADING. IMMEDIATLEY AFTER SPREADING, THE SURFACE SHALL BE BROUGHT TO ITS FINAL SHAPE. THE WETLAND BOTTOM SHALL BE SEEDED WITH THE SEED MIX AS SPECIFIED.

10.) IN ORDER TO PROMOTE THE EARLY DEVELOPMENT OF NEW PLANTING WITHIN THE WETLANDS TO BE CREATED, THE CONTRACTOR SHALL EXCAVATE AND CONSTRUCT THE WETLAND AS SOON AS POSSIBLE. ONCE STARTED, WETLAND GRADING SHALL BE PROGRESSED TO COMPLETION WITHOUT DELAY.

11.) TOPSOIL CONTAINING FOREIGN MATERIAL SUCH AS INVASIVE PLANTS OR INVASIVE SEEDS (SUCH AS PHRAGMITIES AND PURPLE LOOSESTRIFE) SHALL BE REJECTED BY THE RESIDENT ENGINEER.

12.) CONTRACTOR SHALL SUBMIT WRITTEN SOIL TEST RESULTS TO THE RESIDENT ENGINEER PRIOR TO INSTALLATION AS SPECIFIED IN SPECIFICATION SECTION 713-01.

13.) THE APPLICATION OF WETLAND TOPSOIL (ITEM 01613.02 M) WITH WETLAND SEED MIX SHALL IMMEDIATELY FOLLOW FINISH GRADING. SUCH PRECAUTIONS ARE DESIGNED IN PART TO LIMIT THE EMERGENCE AND GROWTH OF UNDESIRABLE PLANT SPECIES.

14.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CERTIFICATES OF INSPECTION FOR ALL WETLAND MITIGATION PLANTINGS, TUBERS, PLUGS, BULBS, WETLAND SEEDING AND BARE ROOT WETLAND PLANTINGS. THE RESIDENT ENGINEER RESERVES THE RIGHT OR OPTION TO INSPECT ALL WETLAND PLANTINGS AT THE SITE BEFORE PLANTING FOR COMPLIANCE WITH REQUIREMENTS FOR GENUS, SPECIES, VARIETY, SIZE AND CONDITION, ROOT SYSTEMS, INSECTS, INJURIES, AND LATENT DEFECTS AND TO REJECT UNSATISFACTORY OR DEFECTIVE MATERIAL AT ANY TIME DURING THE PROGRESS OF WORK. REFER TO SPECIFICATION SECTION 713-06.

15) CONTRACTOR SHALL REFER TO SPECIFICATION SECTION 611 FOR ALL WETLAND MITIGATION SHRUB AND TREE PLANTINGS. ALL WETLAND PLANTS SHALL BE DISEASE RESISTANT, NATIVE PLANTS WITH WELL-BRANCHED ROOT SYSTEMS FROM A CERTIFIED WETLAND NURSERY APPROVED BY THE RESIDENT ENGINEER.

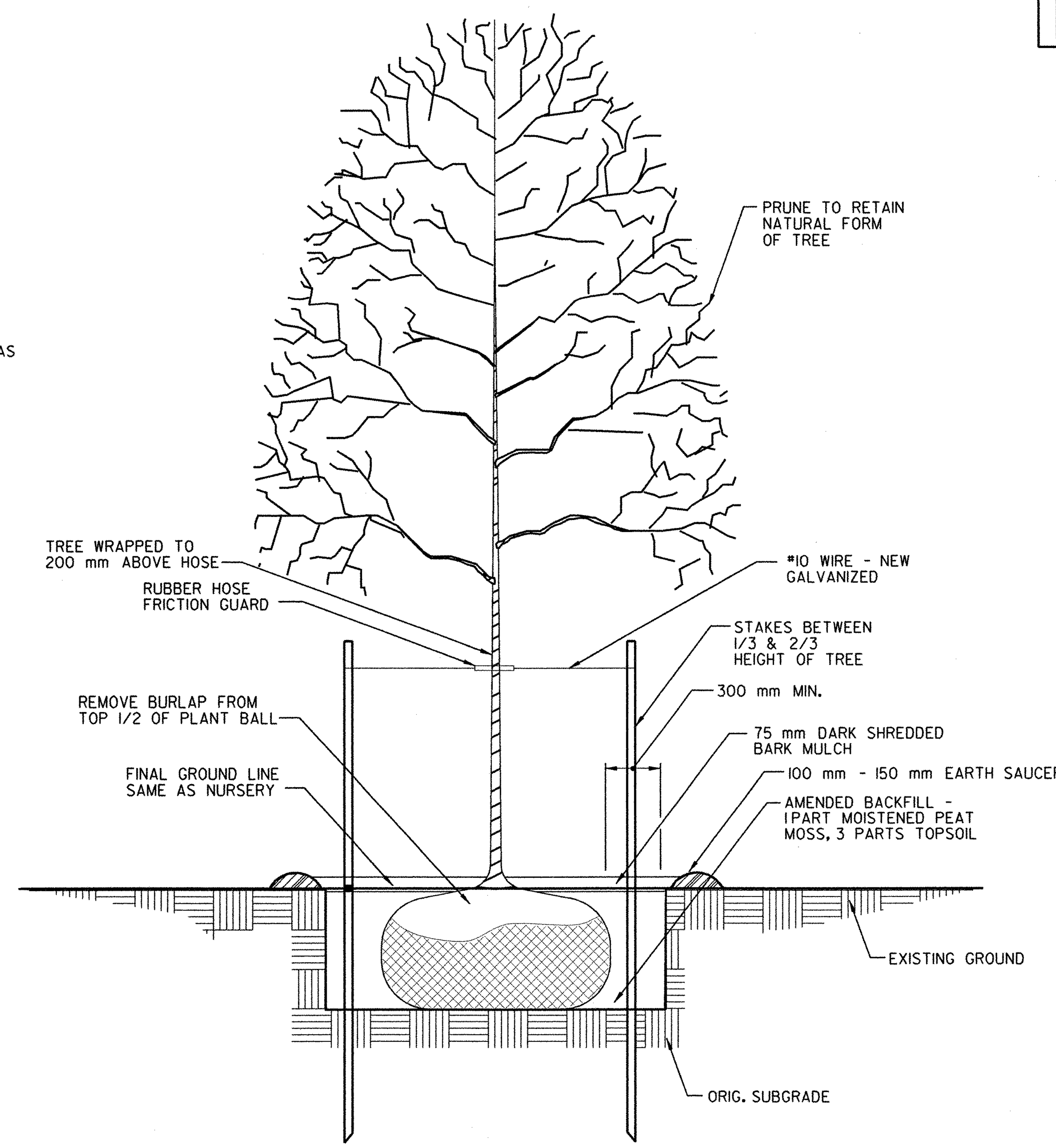
16.) UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL REMOVE ALL ACCUMULATED SILT (AS APPROVED BY THE RESIDENT ENGINEER) FROM BEHIND SILTATION BARRIERS, PAVEMENT AREAS, AND CATCH BASIN SUMPS. DISPOSE OF THE SILT OFF-SITE.

17.) PERMANENT SIGNS WILL BE PLACED ALONG THE PERIMETER OF ALL WETLAND MITIGATION AREAS WHICH INDICATE THAT THEY ARE WETLAND MITIGATION AREAS AND NO DISTURBANCE IS ALLOWED WITHIN THEM. LOCATION OF THE SIGNS WILL BE AS PER THE RECOMMENDATIONS OF THE REGIONAL LANDSCAPE ARCHITECT.

18.) THE CONTRACTOR SHALL ENSURE THAT ALL PLANTINGS IN CONJUNCTION WITH THE WETLAND MITIGATION EFFORT SHALL HAVE AN EIGHTY-FIVE (85) PERCENT SURVIVAL AND/OR COVERAGE RATE THAT MUST BE MET OR EXCEEDED AT THE END OF THE SECOND GROWING SEASON FOLLOWING THE INITIAL PLANTING. IF THE EIGHTY-FIVE (85) PERCENT SURVIVAL RATE IS NOT MET AT THE END OF THE SECOND GROWING SEASON, THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO ENSURE THE LEVEL OF SURVIVAL BY THE END OF THE NEXT GROWING SEASON, INCLUDING RE-PLANTING AND REGRADING IF NECESSARY.

19.) THE NYSDOT SHALL MONITOR THE WETLAND MITIGATION AREA FOR A MINIMUM OF 5 YEARS AFTER CONSTRUCTION OF THE WETLAND MITIGATION AREA. A WRITTEN SUMMARY OF THE INSPECTION SHALL BE SUBMITTED TO THE NYSDOT REGIONAL PERMIT ADMINISTRATOR WITHIN 30 DAYS OF EACH INSPECTION. THE FIRST REPORT SHALL DESCRIBE THE INITIAL PLANTINGS IN THE WETLAND CREATION AREA. SUBSEQUENT REPORTS SHALL DESCRIBE RELATIVE ABUNDANCES AND PHYSICAL CONDITIONS OF SPECIES PLANTED AS WELL AS RELATIVE ABUNDANCES OF SPECIES ESTABLISHED FROM PROPAGULES IN THE TRANSPLANTED TOPSOIL.

20.) IF AFTER THREE (3) GROWING SEASONS THERE IS LESS THAN 80% SURVIVAL OF WOODY PLANT SPECIES PLANTED, ADDITIONAL PLANTINGS SHALL BE MADE OF THE SAME OR DIFFERENT SPECIES DEPENDING UPON THE PROABLE REASONS FOR POOR SURVIVAL.



DECIDUOUS WETLAND TREE PLANTING & STAKING DETAIL
N.T.S.

WETLAND PERMIT NOTE:

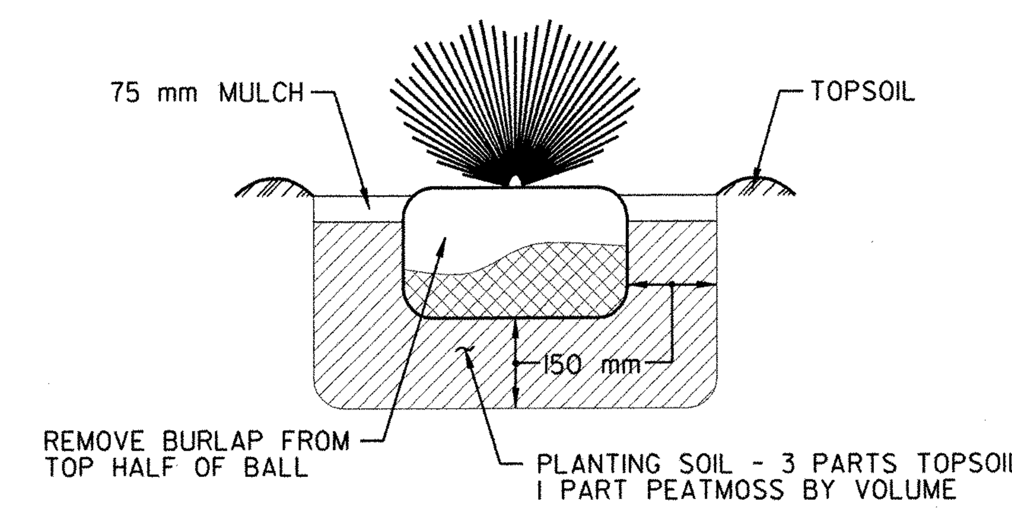
THE NYS DEPARTMENT OF TRANSPORTATION REQUIRES PERMITS FOR CONSTRUCTION OF THIS PROJECT FROM THE NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION AND FROM THE U.S. ARMY CORPS OF ENGINEERS.

THE FRESHWATER WETLAND BOUNDARY AS PRESENTED ON THESE PLANS DEPICTS THE APPROXIMATE LIMITS OF FEDERAL AND NYSDEC JURISDICTIONAL WETLANDS. NO ADDITIONAL CONSTRUCTION, GRADING, FILLING, CLEARING, STOCKPILING, STORING, STAGING, OR OTHER RELATED ACTIVITY SHALL BE PERMITTED WITHIN THE WETLANDS EXCEPT AS DESCRIBED ON THESE PLANS AND AUTHORIZED IN THE PERMIT DOCUMENTS. ANY ADDITIONAL WORK IN THE WETLAND AREA NOT SHOWN ON THE PLANS SHALL NOT BE DONE WITHOUT FIRST CONTACTING THE NYSDOT REGIONAL ENVIRONMENTAL CONTACT.

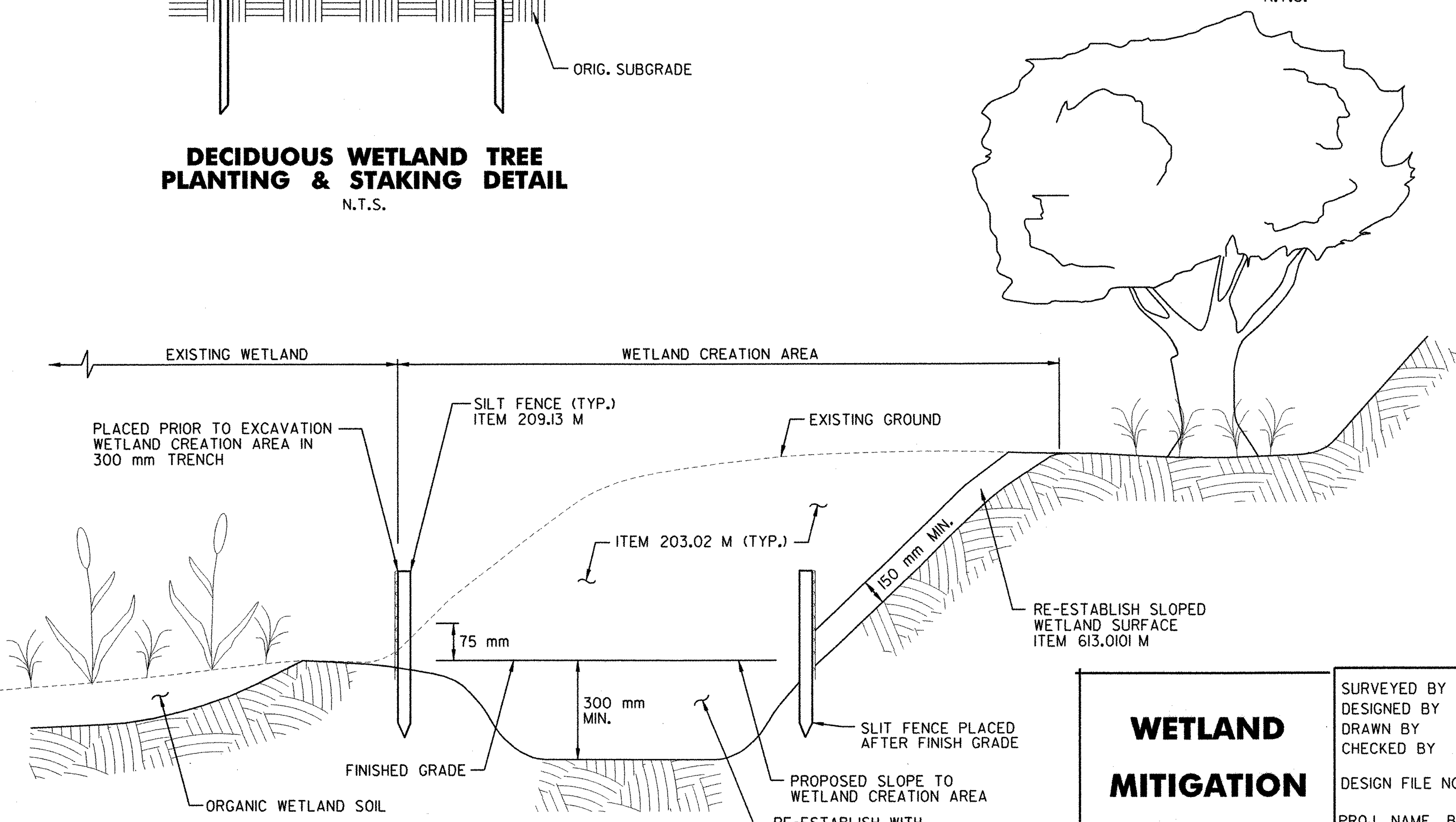
THE CONTRACTOR IS ADVISED THAT THEIR PERFORMANCE IS SUBJECT TO ALL THE TERMS AND CONDITIONS CONTAINED IN THE PERMITS ISSUED BY THE NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION AND THE U.S. ARMY CORPS OF ENGINEERS.

COMPLIANCE IS ABSOLUTELY MANDATORY, AND FAILURE TO COMPLY OR ENSURE THAT ITS CONTRACTORS COMPLY MAY RESULT IN SANCTIONS AGAINST THE DEPARTMENT AND THE VERMONT AGENCY OF TRANSPORTATION, INCLUDING BUT NOT LIMITED TO, A SUSPENSION OR REVOCATION OF THE PERMITS. SUSPENSION OR REVOCATION OF THE PERMITS WILL REQUIRE CESSATION OF ANY WORK SUBJECT TO THE REVOCATION OR SUSPENSION ORDER.

THE CONTRACTOR IS HEREBY REQUIRED TO COMPLY WITH ALL TERMS AND CONDITIONS OF THE PERMITS. THE CONTRACTOR SHALL NOT BE PERMITTED TO MODIFY ANY CONSTRUCTION SEQUENCE WHICH WOULD CONTRAVENE THE TERMS AND CONDITIONS OF THE PERMITS.



TYPICAL SHRUB PLANTING DETAIL
N.T.S.



WETLAND CREATION DETAIL
N.T.S.

WETLAND MITIGATION DETAILS

SURVEYED BY	C.H.A. & V.S.E.	DATE	12/93
DESIGNED BY	D.W.E. / C.E.	DATE	2/04
DRAWN BY	C.A.K.	DATE	2/04
CHECKED BY	T.P.K.	DATE	2/04

DESIGN FILE NO. NYWM-2.DGN

PROJ. NAME BENNINGTON - HOOSICK D.P.I. 0146(1) C/I

PROJ. NO. P.I.N. 1306.60

SHEET 52 OF 92 DWG NO. WM-2

IN CHARGE OF T. KARIS DESIGNED BY D. EMERICH CHECKED BY D. GOZALKOWSKI ESTIMATED BY D. EMERICH CHECKED BY D. GOZALKOWSKI DRAFTED BY C. KAHLBAUGH CHECKED BY T. BURTNICK DATE 2/04

FILE NAME = u:\5116\nysdot\contract1\nywm-2.dgn
DATE/TIME = 2/23/2004
USER = 2225