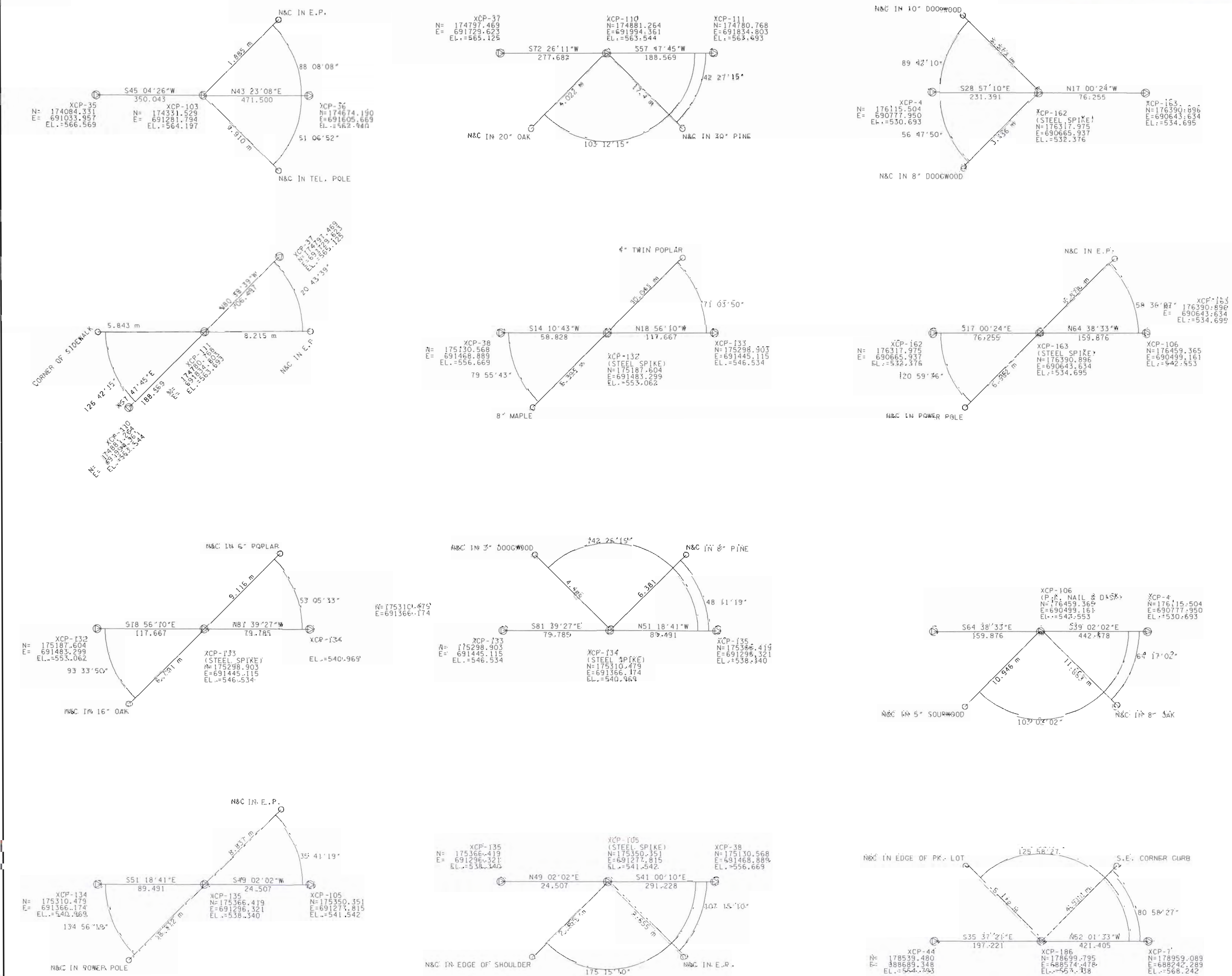
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	31



COORDINATE VALUES ARE NAD-83(1990) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

REFERENCE POINT DIAGRAMS
N.T.S.

24-FEB-2010 15:52

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	32

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

GENERAL EROSION CONTROL NOTES

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

(1) PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE DESTROYED, REMOVED OR DISTURBED (I.E CLEARING AND GRUBBING INITIATED) MORE THAN 10 CALENDAR DAYS PRIOR TO GRADING OR EARTH MOVING ACTIVITIES UNLESS THE AREA IS SEEDED AND/OR MULCHED OR OTHER TEMPORARY COVER IS INSTALLED.

(2) CLEARING, GRUBBING, AND OTHER DISTURBANCE TO RIPARIAN VEGETATION SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR SLOPE CONSTRUCTION AND EQUIPMENT OPERATIONS. UNNECESSARY VEGETATION REMOVAL IS PROHIBITED.

(3) ANY STREAM CROSSINGS BY ANY TYPE OF TRUCKS OR EQUIPMENT SHALL BE MADE IN COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE GENERAL ARAP PERMIT FOR ROAD CROSSINGS. ALL TEMPORARY CROSSINGS MUST BE CONSTRUCTED IN ACCORDANCE WITH STD DWG. NO. ECM-STR-25 UNLESS SPECIFICALLY ADDRESSED IN THE EROSION PREVENTION AND SEDIMENT CONTROL PLANS

(4) ALL DISTURBED AREAS SHALL BE PROPERLY STABILIZED AS SOON AS PRACTICABLE. PRIORITY SHALL BE GIVEN TO FINISHING OPERATIONS AND PERMANENT EROSION PREVENTION AND SEDIMENT CONTROL MEASURES OVER TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ON ALL PROJECTS.

(5) EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED CONCURRENTLY WITH CLEARING OPERATIONS, AND SHALL BE FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS.

(6) CONSTRUCTION SHALL BE SEQUENCED TO MINIMIZE THE EXPOSURE TIME OF GRADED OR DENUDED SOIL AREAS AND SHALL BE PHASED FOR PROJECTS THAT HAVE OVER 20.2 HECTARES (50 ACRES) OF SOIL DISTURBANCE. NO MORE THAN 20.2 HECTARES (50 ACRES) OF ACTIVE SOIL DISTURBANCE IS ALLOWED AT ANY TIME DURING THE CONSTRUCTION PROJECT, UNLESS APPROVED IN WRITING BY THE ENVIRONMENTAL DIVISION.

(7) EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) INSPECTION, REPAIR, AND MAINTENANCE OF STRUCTURES IS TO BE PERFORMED ON A REGULAR BASIS AND SEDIMENT SHALL BE REMOVED FROM SEDIMENT CONTROL STRUCTURES WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT (50%). DURING SEDIMENT REMOVAL, THE CONTRACTOR SHALL TAKE CARE TO ENSURE THAT STRUCTURAL COMPONENTS OF EROSION PREVENTION AND SEDIMENT CONTROL STRUCTURES ARE NOT DAMAGED AND THUS MADE INEFFECTIVE. IF DAMAGE DOES OCCUR, THE CONTRACTOR SHALL REPAIR THE STRUCTURES AT THE CONTRACTOR'S OWN EXPENSE.

(8) SEDIMENT REMOVED FROM SEDIMENT CONTROL STRUCTURES SHALL BE PLACED AND BE TREATED IN A MANNER SO THAT THE SEDIMENT IS CONTAINED WITHIN THE PROJECT LIMITS AND DOES NOT MIGRATE INTO WATERS OF THE STATE/U.S. COST FOR THIS TREATMENT IS TO BE INCLUDED IN PRICE BID FOR ITEM NO 209M05 SEDIMENT REMOVAL, m^3

(9) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT THE OFF-SITE MIGRATION OR DEPOSIT OF SEDIMENT ON ROADWAYS USED BY THE GENERAL PUBLIC. IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT THAT HAVE NOT REACHED A STREAM MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS (E.G., FUGITIVE SEDIMENT THAT HAS ESCAPED THE CONSTRUCTION SITE AND HAS COLLECTED IN A STREET MUST BE REMOVED SO THAT IT IS NOT SUBSEQUENTLY WASHED INTO STORM SEWERS AND STREAMS BY THE NEXT RAIN AND/OR SO THAT IT DOES NOT POSE A SAFETY HAZARD TO USERS OF PUBLIC STREETS). ARRANGEMENTS CONCERNING REMOVAL OF SEDIMENT ON ADJOINING PROPERTY MUST BE SETTLED WITH THE ADJOINING PROPERTY OWNER BEFORE REMOVAL OF SEDIMENT.

(10) SOIL MATERIALS MUST BE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES TO PROTECT WATER QUALITY MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. APPROPRIATE EROSION PREVENTION AND SEDIMENT CONTROL MEASURES MUST BE INSTALLED ALONG THE BASE OF ALL FILLS AND CUTS, ON THE DOWNHILL SIDE OF STOCKPILED SOIL, AND ALONG STREAM BANKS IN CLEARED AREAS TO PREVENT SEDIMENT MIGRATION INTO STREAMS IN ACCORDANCE WITH TDOT STANDARDS. THEY MUST BE INSTALLED ON THE CONTOUR, ENTRENCHED AND STAKED, AND EXTEND THE WIDTH OF THE AREA TO BE CLEARED.

(11) NEW CHANNEL CONSTRUCTION SHALL BE COMPLETED IN THE DRY AND STABILIZED FOR AT LEAST 72 HOURS PRIOR TO DIVERTING WATER FROM THE EXISTING AND/OR TEMPORARY CHANNEL.

(12) INSTREAM EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) DEVICES ARE NOT APPROVED, UNLESS SPECIFIED IN WRITING BY THE ENVIRONMENTAL DIVISION.

(13) WATER PUMPED FROM WORK AREAS AND EXCAVATION MUST BE HELD IN SETTLING BASINS OR TREATED BY FILTRATION PRIOR TO ITS DISCHARGE INTO SURFACE WATERS. WATER MUST BE HELD IN SETTLING BASINS UNTIL AT LEAST AS CLEAR AS THE RECEIVING WATERS. SETTLING BASINS SHALL NOT BE LOCATED CLOSER THAN 6.1 m (20 FEET) FROM THE TOP BANK OF A STREAM. SETTLING BASINS AND SEDIMENT TRAPS SHALL BE PROPERLY DESIGNED ACCORDING TO THE SIZE OF THE DRAINAGE AREAS OR VOLUME OF WATER TO BE TREATED. TREATED WATER MUST BE DISCHARGED THROUGH A PIPE OR WELL-VEGETATED OR LINED CHANNEL, SO THAT THE DISCHARGE DOES NOT CAUSE EROSION OR SEDIMENT TRANSPORT

(14) CHECK DAMS SHALL BE USED WHERE RUNOFF IS CONCENTRATED. CLEAN ROCK, BRUSH, GABION, OR SANDBAG CHECK DAMS SHALL BE PROPERLY CONSTRUCTED TO REDUCE VELOCITY AND CONTROL EROSION.

(15) CLEAN ROCK IS ROCK OF VARIOUS TYPE AND SIZE, DEPENDING UPON APPLICATION THAT CONTAINS NO FINES, SOILS, OR OTHER WASTES OR CONTAMINANTS.

(16) PERMANENT EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES SHALL BE INITIATED WITHIN 15 CALENDAR DAYS AFTER FINAL GRADING OF ANY SEQUENCE OR PHASE. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED WITHIN 15 CALENDAR DAYS AFTER FINAL GRADING OR WHEN CONSTRUCTION ACTIVITIES ON A PORTION OF THE SITE ARE TEMPORARILY CEASED AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME UNTIL AFTER 15 CALENDAR DAYS. PERMANENT STABILIZATION WITH PERENNIAL VEGETATION OR OTHER PERMANENTLY STABLE, NON-ERODING SURFACE, SHALL REPLACE ANY TEMPORARY MEASURES AS SOON AS PRACTICABLE UNPACKED GRAVEL CONTAINING FINES (SILT AND CLAY SIZED PARTICLES) OR CRUSHER RUNS WILL NOT BE CONSIDERED A NON-ERODIBLE SURFACE.

(17) THE CONTRACTOR SHALL INSTALL A RAIN GAUGE EVERY 1.6 LINEAR KILOMETER AT ALL SITES WHERE CLEARING, GRUBBING, EXCAVATION, GRADING CUTTING OR FILLING IS BEING ACTIVELY PERFORMED, OR EXPOSED SOIL HAS NOT YET BEEN PERMANENTLY STABILIZED. IF THE PROJECT LENGTH IS LESS THAN ONE LINEAR MILE, ONE RAIN GAUGE SHALL BE INSTALLED AT THE CENTER OF THE PROJECT OR AS INDICATED BY THE TDOT EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) INSPECTOR. THE CONTRACTOR SHALL ENSURE THAT EACH GAUGE IS MAINTAINED IN GOOD WORKING CONDITION. TDOT AND/OR THE CONTRACTOR SHALL RECORD DAILY PRECIPITATION AND FORECASTED PERCENTAGE OF PRECIPITATION IN DETAILED RECORDS OF RAINFALL EVENTS INCLUDING DATES, AMOUNTS OF RAINFALL PER GAUGE, THE ESTIMATED DURATION (OR STARTING AND ENDING TIMES), AND FORECASTED PERCENTAGE OF PRECIPITATION FOR THE PROJECT THIS INFORMATION SHALL BE PROVIDED TO THE ENGINEER ON A MONTHLY BASIS. THE COST FOR THE RAIN GAUGES IS TO BE INCLUDED IN THE UNIT BID PRICES FOR OTHER ITEMS RAIN GAUGES SHALL BE AS SPECIFIED IN THE APPROVED TDOT RAINFALL MONITORING PLAN.

(18) INSPECTION OF EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE DONE BEFORE ANTICIPATED STORM EVENTS (OR SERIES OF STORM EVENTS SUCH AS INTERMITTENT SHOWERS OVER ONE OR MORE DAYS), DURING OR WITHIN TWENTY-FOUR (24) HOURS AFTER THE END OF A STORM EVENT OF 12.5 mm (0 5 INCH) OR GREATER, AND AT LEAST TWICE PER CALENDAR WEEK AT LEAST 72 HOURS APART A CALENDAR WEEK IS DEFINED AS SUNDAY THROUGH SATURDAY AN ANTICIPATED STORM EVENT IS DEFINED AS A 50% OR GREATER CHANCE OF RAINFALL ACCORDING TO A DOCUMENTED LOCAL OR NATIONAL SOURCE (I.E., NOAA, WEATHER.COM, LOCAL NEWSPAPER).

(19) OUTFALL POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO SURROUNDING WATERS. WHERE DISCHARGE LOCATIONS ARE INACCESSIBLE, NEARBY DOWNSTREAM LOCATIONS SHALL BE INSPECTED. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE ROADWAY SEDIMENT TRACKING.

(20) UPON CONCLUSION OF THE INSPECTIONS, EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES FOUND TO BE INEFFECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT RAIN EVENT, IF POSSIBLE, BUT IN NO CASE MORE THAN 24 HOURS AFTER THE INSPECTION OR WHEN THE CONDITION IS IDENTIFIED. IF THE REPAIR, REPLACEMENT OR MODIFICATION IS NOT PRACTICABLE WITHIN THE TIMEFRAME, WRITTEN DOCUMENTATION MUST BE PROVIDED IN THE FIELD BOOK AND AN ESTIMATED REPAIR, REPLACEMENT OR MODIFICATION SCHEDULE SHALL BE DOCUMENTED WITHIN 24 HOURS AFTER IDENTIFICATION.

(21) THE CONTRACTOR SHALL MAINTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN ON-SITE (OR AT NEARBY OFFICE) AND SHALL PLACE COPIES OF ANY PROJECT-RELATED PERMITS ON THE PROJECT BULLETIN BOARD

(22) THE OPERATION OF EQUIPMENT IN WATERS OF THE STATE/U.S., INCLUDING WETLANDS, SHALL BE ONLY AS SHOWN ON THE PROJECT PLANS AND/OR AS SO SPECIFIED IN THE ARAP AND/OR SECTION 404 PERMIT(S). ANY ADDITIONAL PERMITS REQUIRED BY THE CONTRACTOR'S METHOD OF OPERATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN, AFTER RECEIVING THE APPROVAL OF TDOT ENVIRONMENTAL DIVISION.

(23) ONLY CLEAN ROCK MAY BE PLACED DIRECTLY INTO WATERS OF THE STATE/U.S. AS INDICATED ON THE PLANS AND PERMITS. CLEAN ROCK IS ROCK OF VARIOUS TYPE AND SIZE, DEPENDING UPON APPLICATION THAT CONTAINS NO FINES, SOILS, OR OTHER WASTES OR CONTAMINANTS. OTHER FILL MATERIALS TO BE DISCHARGED BELOW ORDINARY HIGH WATER MUST BE FREE OF FINES, SEDIMENT, SOIL, POLLUTANTS, CONTAMINANTS, TOXIC MATERIALS, ASPHALT, TRASH, AND/OR OTHER WASTE MATERIALS.

(24) THE WIDTH OF THE FILL ASSOCIATED WITH TEMPORARY CROSSINGS SHALL BE LIMITED TO THE MINIMUM NECESSARY FOR THE ACTUAL CROSSING.

(25) EXCAVATION AND FILL ACTIVITIES SHALL BE SEPARATED FROM FLOWING WATERS IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN OR STANDARD DRAWING ECM-STR-31 OR AN ALTERNATE METHOD APPROVED BY THE ENVIRONMENTAL DIVISION. ALL SURFACE WATER FLOWING TOWARD THE EXCAVATION OR FILL WORK SHALL BE DIVERTED THROUGH USE OF PIPES, COFFERDAMS, BERMS, OR TEMPORARY CHANNELS. TEMPORARY DIVERSION CHANNELS SHALL BE USED TO DIVERT THE NORMAL STREAM FLOW PATH FROM AN ERODIBLE AREA UNTIL SUCH AREAS CAN BE STABILIZED TEMPORARY DIVERSION CHANNELS MUST BE PROTECTED BY NON-ERODIBLE MATERIAL AND LINED TO THE EXPECTED HIGH WATER LEVEL IN ACCORDANCE WITH ECM-STR-31. COFFERDAMS MUST BE CONSTRUCTED OF SANDBAGS, CLEAN ROCK, STEEL SHEETING OR OTHER NON-ERODIBLE MATERIAL. CLEAN ROCK IS ROCK OF VARIOUS TYPE AND SIZE, DEPENDING UPON APPLICATION THAT CONTAINS NO FINES, SOILS, OR OTHER WASTES OR CONTAMINANTS.

(26) NO ACTIVITY MAY SUBSTANTIALLY DISRUPT THE MOVEMENT OF THOSE SPECIES OF AQUATIC LIFE INDIGENOUS TO THE WATER BODY, INCLUDING THOSE SPECIES THAT NORMALLY MIGRATE THROUGH THE AREA. THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE MODIFIED TO INCLUDE EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES TO PREVENT NEGATIVE IMPACTS TO LEGALLY PROTECTED STATE OR FEDERAL FAUNA OR FLORA OR AS INDICATED IN THE ECOLOGICAL STUDIES OR ON THE PERMIT(S).

(27) NO STREAM SHALL BE USED AS TRANSPORTATION ROUTES FOR HEAVY EQUIPMENT UNLESS THE STREAM IS A COMMERCIALLY NAVIGABLE WATERWAY AND BARGES ARE USED. TEMPORARY CROSSINGS MUST BE LIMITED TO ONE POINT PER STREAM AND EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES MUST BE USED WHERE THE STREAM BANKS ARE DISTURBED. WHERE THE STREAMBED IS NOT COMPOSED OF BEDROCK, A PAD OF CLEAN ROCK MUST BE USED AT THE CROSSING POINT, CULVERTED TO PREVENT THE IMPOUNDMENT OF WATER FLOW. CLEAN ROCK IS ROCK OF VARIOUS TYPE AND SIZE, DEPENDING UPON APPLICATION THAT CONTAINS NO FINES, SOILS, OR OTHER WASTES OR CONTAMINANTS OTHER MATERIALS USED FOR ALL TEMPORARY FILLS MUST BE COMPLETELY REMOVED IN THEIR ENTIRETY AFTER THE WORK IS COMPLETED AND THE AFFECTED AREAS RETURNED TO THEIR PREEXISTING ELEVATION. ALL TEMPORARY CROSSINGS MUST BE CONSTRUCTED IN ACCORDANCE WITH STD. DWG. NO. ECM-STR-25 UNLESS SPECIFICALLY ADDRESSED IN THE EPSC PLANS. ALTERNATIVELY, PLACING A TEMPORARY BRIDGE (BAILEY BRIDGE OR EQUIVALENT, TIMBERS, ETC.) FROM TOP OF BANK TO TOP OF BANK AT THE CROSSING TO AVOID DISTURBANCE OF THE STREAMBED IS AN ACCEPTABLE OPTION.

(28) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION WASTES FROM ENTERING WATERS OF THE STATE/U.S.

(29) THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS OF THE STATE/U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES, INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). APPROPRIATE CONTAINMENT MEASURES FOR THESE AREAS SHALL BE USED. ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURES SHALL BE TAKEN IMMEDIATELY

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL PLAN

GENERAL NOTES

24-FEB-2010 15:52
\\JJ0ZWF01.chat.tenn\025shared\Design County Folders\Cumberland\SR28sawmillroad\cumb28v8\cumb28\FinalDesign2005\Construction plans\B\Constr\ntplansheets\CM28L32.sht

TYPE	YEAR	PROJECT No.	SHEET No.
CONST.	2009	18006-3210-04	32A

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

GENERAL EROSION CONTROL NOTES

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

TO PREVENT THE POLLUTION OF WATERS OF THE STATE/U.S., INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR.

(30) BORROW AND WASTE DISPOSAL AREAS SHALL BE LOCATED IN NON-WETLAND AREAS AND ABOVE THE 100-YEAR, FEDERAL EMERGENCY MANAGEMENT AGENCY FLOODPLAIN. BORROW AND WASTE DISPOSAL AREAS SHALL NOT AFFECT ANY WATERS OF THE STATE/U.S. UNLESS THESE AREAS ARE SPECIFICALLY COVERED BY AN ARAP, 404, OR NPDES PERMIT, OBTAINED SOLELY BY THE CONTRACTOR.

(31) HEAVY EQUIPMENT WORKING IN WETLANDS MUST BE PLACED ON MATS, OR OTHER MEASURES MUST BE TAKEN TO MINIMIZE SOIL DISTURBANCE UNLESS SPECIFICALLY ADDRESSED IN THE EROSION PREVENTION AND SEDIMENT CONTROL PLANS.

(32) THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND OBTAIN ANY NECESSARY ENVIRONMENTAL PERMITS OR APPROVALS, INCLUDING BUT NOT LIMITED TO TDEC ARAP/401, USACE SECTION 404, TVA SECTION 26A, AND TDEC NPDES PERMITS, FROM STATE AND/OR LOCAL AGENCIES REGARDING THE OPERATION OF ANY PROJECT-DEDICATED ASPHALT AND/OR CONCRETE PLANTS.

(33) WETLANDS AREAS SHALL NOT BE USED AS EQUIPMENT STORAGE, STAGING, OR TRANSPORTATION AREAS, UNLESS PROVIDED FOR IN THE PLANS.

(34) ANY DISAGREEMENT BETWEEN THE PROJECT PLANS, THE PROJECT AS CONSTRUCTED, AND THE PERMIT(S) ISSUED FOR THE PROJECT, SHALL BE BROUGHT TO THE ATTENTION OF THE TDOT PROJECT ENGINEER. THE ENVIRONMENTAL DIVISION, DESIGN DIVISION, AND THE HEADQUARTERS CONSTRUCTION OFFICE SHALL BE CONTACTED IN THESE INSTANCES AND DECIDE WHICH HAS PRECEDENCE AND WHETHER PERMIT OR PLANS REVISIONS ARE NEEDED. IN GENERAL, PERMIT CONDITIONS WILL PREVAIL.

(35) FOR PROJECTS THAT DISCHARGE INTO HIGH QUALITY WATERS OR WATERS IMPAIRED BY SILTATION, AN OUTFALL IN A DRAINAGE AREA OF 2.02 HECTARES (5 ACRES) OR MORE, A TEMPORARY (OR PERMANENT) SEDIMENT BASIN THAT PROVIDES STORAGE FOR A CALCULATED VOLUME OF RUNOFF FROM A 5-YEAR/ 24-HOUR STORM EVENT AND RUNOFF FROM EACH ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED UNTIL FINAL STABILIZATION OF THE SITE. THE ENVIRONMENTAL AND DESIGN DIVISIONS SHALL REVIEW AND APPROVE ANY REVISION OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) BEFORE DISTURBANCE OF THE OUTFALL PROCEEDS, UNLESS PREVIOUSLY EXEMPT IN THE NPDES CONSTRUCTION GENERAL PERMIT.

(36) FOR PROJECTS THAT DISCHARGE INTO HIGH QUALITY WATERS OR WATERS IMPAIRED BY SILTATION, AN 18.3 m (60 FT.) NATURAL RIPARIAN BUFFER ZONE ADJACENT TO AND ON BOTH SIDES OF THE RECEIVING STREAM WITH THIS DESIGNATION SHALL BE PRESERVED, TO THE MAXIMUM EXTENT PRACTICABLE, DURING CONSTRUCTION ACTIVITIES AT THE SITE. BUFFER ZONES ARE NOT SEDIMENT CONTROL MEASURES AND SHOULD NOT BE RELIED UPON AS PRIMARY SEDIMENT CONTROL MEASURES. THE RIPARIAN BUFFER ZONE SHALL BE ESTABLISHED BETWEEN THE TOP OF THE STREAM BANK AND THE DISTURBED CONSTRUCTION AREA. THE 18.3 m (60 FT.) CRITERION FOR THE WIDTH OF THE BUFFER ZONE CAN BE ESTABLISHED ON AN AVERAGE WIDTH BASIS AT A PROJECT, AS LONG AS THE MINIMUM WIDTH OF THE BUFFER ZONE IS MORE THAN 7.6 m (25 FT.) AT ANY MEASURED LOCATION. EVERY ATTEMPT SHALL BE MADE FOR CONSTRUCTION ACTIVITIES NOT TO TAKE PLACE WITHIN THE BUFFER ZONES. BEST MANAGEMENT PRACTICES (BMPS) PROVIDING EQUIVALENT PROTECTION AS THE NATURAL RIPARIAN ZONE MAY BE USED. A JUSTIFICATION FOR USE AND DESIGN EQUIVALENCY SHALL BE DOCUMENTED WITHIN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THE ENVIRONMENTAL AND DESIGN DIVISIONS SHALL REVIEW AND APPROVE THIS REVISION OF THE SWPPP BEFORE DISTURBANCE OF THE SITE PROCEEDS, UNLESS PREVIOUSLY EXEMPT IN THE NPDES CONSTRUCTION GENERAL PERMIT. THIS REQUIREMENT DOES NOT APPLY TO ANY VALID ARAP OR EQUIVALENT PERMIT(S) ISSUED BY FEDERAL AUTHORITIES.

(37) EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES MUST BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATIONS BEGIN, AND MUST BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. TEMPORARY EPSC MEASURES MAY BE REMOVED AT THE BEGINNING OF THE WORKDAY, BUT MUST BE REPLACED AT THE END OF THE WORKDAY. ALL EPSC MEASURES AS WELL AS BUFFER ZONES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE KEPT IN GOOD AND EFFECTIVE OPERATION CONDITION.

(38) THE FOLLOWING INFORMATION SHALL BE MAINTAINED ON OR NEAR THE SITE DATES THAT MAJOR GRADING ACTIVITIES OCCUR, DATES WHERE CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE, DATES WHEN STABILIZATION MEASURES ARE INITIATED, EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) INSPECTION RECORDS AND PRECIPITATION RECORDS

(39) ALL WATER QUALITY AND STORM WATER PERMITS, INCLUDING THE LOCATION OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP), SHALL BE POSTED NEAR THE MAIN ENTRANCE OF THE CONSTRUCTION SITE ACCESSIBLE TO THE PUBLIC. IF POSTING THIS INFORMATION NEAR A MAIN ENTRANCE IS INFEASIBLE, THE INFORMATION SHALL BE PLACED IN A PUBLICLY ACCESSIBLE LOCATION NEAR WHERE THE CONSTRUCTION IS ACTIVELY UNDERWAY AND MOVED AS NECESSARY THIS LOCATION SHALL BE POSTED AT THE CONSTRUCTION SITE.

(40) IF A CHANGE IN PROJECT SCOPE OCCURS DURING CONSTRUCTION, INCLUDING VALUE ENGINEERING, THE ENVIRONMENTAL DIVISION SHALL BE CONTACTED TO DETERMINE WHETHER PERMIT REVISIONS ARE NEEDED. THE DESIGN DIVISION SHALL BE CONTACTED TO DETERMINE IF ANY PLAN REVISIONS ARE NEEDED.

(41) THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE UPDATED BY CONSTRUCTION WHENEVER EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) INSPECTIONS INDICATE THE SWPPP IS PROVING INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY MINIMIZING POLLUTANT SOURCES OR IS OTHERWISE NOT ACHIEVING THE GENERAL OBJECTIVES OF CONTROLLING POLLUTANTS IN STORM WATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY. THE ENVIRONMENTAL DIVISION SHALL BE CONTACTED WHEN MAJOR DESIGN REVISIONS ARE REQUESTED BY CONSTRUCTION. THE ENVIRONMENTAL DIVISION MAY BE CONTACTED FOR GUIDANCE ON SPECIFIC SWPPP NEEDS.

(42) IF PERMANENT OR TEMPORARY VEGETATION IS TO BE USED AS AN EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURE, THEN THE TIMING OF PLANTING OF VEGETATION SHALL BE SHOWN IN THE STORM WATER POLLUTION PREVENTION PLAN. DELAYING PLANTING OF COVER VEGETATION UNTIL WINTER MONTHS OR DRY MONTHS SHOULD BE AVOIDED, IF POSSIBLE.

(43) OFFSITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED. A STABILIZED CONSTRUCTION ACCESS (A POINT OF ENTRANCE/EXIT TO THE CONSTRUCTION PROJECT) SHALL BE PROVIDED, AS NEEDED TO REDUCE THE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES

(44) PROJECT INSPECTORS AND SUPERVISORS (INCLUDING TDOT STAFF, CONSULTANTS, AND CONTRACTOR'S STAFF) RESPONSIBLE FOR THE IMPLEMENTATION AND MAINTENANCE OF EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) SHALL SUCCESSFULLY COMPLETE THE TDEC "FUNDAMENTALS OF EROSION PREVENTION AND SEDIMENT CONTROL" (REFERRED TO AS "LEVEL ONE") COURSE OR EQUIVALENT COURSE. A COPY OF CERTIFICATION RECORDS FOR THIS COURSE SHALL BE KEPT ON SITE AND AVAILABLE UPON REQUEST.

(45) NO WORK SHALL BE STARTED UNTIL THE CONTRACTOR'S PLAN FOR THE STAGING OF THEIR OPERATIONS, INCLUDING THE PLAN FOR STAGING OF TEMPORARY AND PERMANENT EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES, HAS BEEN ACCEPTED BY THE ENGINEER. THE CONTRACTOR'S EPSC PLAN SHALL INCORPORATE AND SUPPLEMENT, AS ACCEPTABLE, THE BASIC EROSION PREVENTION AND SEDIMENT CONTROL DEVICES ON THE EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) PLAN. CONTAINED IN THE APPROVED STORM WATER POLLUTION PREVENTION PLAN (SWPPP), TO PROVIDE ACCEPTABLE EROSION PREVENTION AND SEDIMENT CONTROLS DURING ALL STAGES OF CONSTRUCTION.

(46) THE EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES AND/OR PLAN SHALL BE MODIFIED AS NECESSARY SO THAT THEY ARE EFFECTIVE AT ALL TIMES THROUGHOUT THE COURSE OF THE PROJECT

(47) THE ACCEPTED EPSC PLAN SHALL REQUIRE THAT EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES BE IN PLACE BEFORE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OCCURS, EXCEPT AS SUCH WORK MAY BE NECESSARY TO INSTALL EPSC MEASURES, INCLUDING WITHOUT LIMITATION AS FOLLOWS:

A. INITIAL CLEARING AND GRUBBING SHALL BE LIMITED TO THAT NECESSARY FOR THE INSTALLATION OF APPLICABLE EPSC DEVICES IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP).

B. NO OTHER CLEARING AND GRUBBING OPERATIONS SHALL BE STARTED BEFORE APPLICABLE EPSC MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

C. NO CULVERT OR BRIDGE CONSTRUCTION SHALL BE STARTED BEFORE APPLICABLE EPSC ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP.

D. NO GRADING, EXCAVATION, CUTTING, FILLING, OR OTHER EARTHWORK SHALL BE STARTED BEFORE EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ARE IN PLACE IN ACCORDANCE WITH THE ACCEPTED EPSC PLAN INCORPORATED INTO THE SWPPP

(48) EXCEPT AS OTHERWISE SPECIFIED, THERE ARE NO KNOWN SPECIAL ENVIRONMENTAL FACTORS PRESENT ON THIS PROJECT THAT INDICATE A NEED FOR SEASONAL LIMITATIONS ON THE CLEARING, GRUBBING, EXCAVATION, GRADING, CUTTING OR FILLING OPERATIONS OR ON THE TOTAL AREA OF EXPOSED SOIL.

(49) THERE MUST BE A BASE FLOW (LOW FLOW) BARREL(S) IN A MULTI-BARREL BOX BRIDGE OR BOX CULVERT, WITH THE REMAINING BARREL(S) ACTING AS A FLOODPLAIN. THIS WILL ENSURE PROPER WATER FLOW AND DEPTH TO MAINTAIN MOVEMENT AND SURVIVAL OF AQUATIC SPECIES. AFTER CONSTRUCTION IS COMPLETE, THE BARREL(S) SHALL BE ALLOWED TO FILL WITH NATURAL SEDIMENT DURING BEDLOAD TRANSPORT FROM UPSTREAM.

(50) RAIN WATER WHICH COLLECTS IN THE UTILITY TRENCH SHALL BE PUMPED INTO A TEMPORARY DEWATERING STRUCTURE OR SEDIMENT FILTER BAG AND MAINTAINED.

(51) SILT FENCE TO BE INSTALLED ON THE DOWNSTREAM SIDE OF STOCKPILED SOIL. TRENCHING ACROSS WET WEATHER CONVEYANCES TO BE DONE DURING NO FLOW CONDITIONS AND STABILIZED BY THE END OF THE WORK DAY.

(52) UTILITY CROSSINGS FOR PERENNIAL STREAMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH TDOT STANDARDS, AND NO WORK SHALL BE CONDUCTED IN FLOWING WATERS. TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) REGULATIONS APPLY TO THE UTILITIES IN THIS PROJECT IN REGARDS TO EROSION PRVENTION AND SEDIMENT CONTROL (ESPC). THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE STORM WATER POLLUTION PREVENTION PLANS (SWPPP)

(53) IT IS THE RESPONSIBILITY OF THE STATE UTILITY CONTRACTOR INSTALLER TO PROTECT FROM EROSION EXPOSED EARTH RESULTING FORM HIS OPERATIONS AND TO PROVIDE FOR CONTAINMENT OF SEDIMENT THAT MAY RESULT FROM HIS WORK. PRIOR TO BEGINNING WORK, ADEQUATE MEASURES MUST BE IN PLACE TO TRAP ANY SEDIMENT THAT MAY TRAVEL OFF-SITE IN THE EVENT OF RAIN. DURING THE PROGRESSION OF THEIR WORK, EXPOSED EARTH AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EROSION. AT NO TIME SHALL EXPOSED EARTH RESULTING FROM THEIR OPERATIONS HAVE UNPROTECTED ACCESS TO FLOWING OFF-SITE AND BECOMING WATERS OF THE STATE/US.

(54) FOR THE INSTALLATION OF BURIED UTILITIES (PIPES AND CABLES), TRENCHES SHALL BE BACKFILLED DAILY AS CONSTRUCTION PROCEEDS. BACKFILLED TRENCHES SHALL BE SEEDED AND MULCHED OR SODDED DAILY IF POSSIBLE, BUT NO LATER THAN 7 DAYS AFTER BEING BACKFILLED. ANY TEMPORARY SPOIL PILE OF EXCAVATED EARTH SHALL BE LOCATED WITHIN TDOT EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES OR RECEIVE SEPARATE ESPC MEASURES. IF TRENCHES ARE NOT BACKFILLED OVER NIGHT, APPROPRIATE ESPC MEASURES WILL BE INSTALLED BY THE STATE UTILITY CONTRACTOR UNTIL SUCH TIME THE TRENCH IS BACKFILLED.

(55) IN REGARD TO EROSION PREVENTION AND SEDIMENT CONTROL (EPSC), TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC) REGULATIONS APPLY TO THE STATE UTILITY CONTRACTORS IN THIS PROJECT THERFORE. THE STATE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE STORM WATER POLLUTIONS PREVENTION PLANS (SWPPP). THE STATE CONTRACTOR IS RESPONSIBLE FOR EPSC MEASURES RELATED TO UTILITY CONSTRUCTION INCLUDED IN THE STATE CONTRACT WORK.

(56) TRENCHES FORMED FOR THE INSTALLATION OF BURIED UTILITIES MAY CAUSE STORM WATER RUNOFF TO CONCENTRATE AT THE TRENCH LINE ADDITIONAL EROSION PREVENTION AND SEDIMENT CONTROL (ESPC) MEASURES MAY BE REQUIRED TO BE INSTALLED AS APPROVED BY THE TDOT PROJECT ENGINEER.

(57) FOR THE INSTALLATION OF UNDERGROUND UTILITIES OUTSIDE OF THE TDOT RIGHT-OF-WAY, THEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) SHALL BE INSTALLED PRIOR TO CLEARING (TRENCHING AND ASSOCIATED BLASTING) IN THOSE AREAS NECDESSARY TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA. THESE EPSC MEASURES SHALL REMAIN UNTIL THE BACKFILLED TRENCH IS STABILIZED WITH FINAL VEGETATIVE COVER.

(58) THE UTILITY CONTRACTOR SHALL RESTORE ALL AFFECTED WET WEATHER CONVEYANCES TO THE EXISTING TOPOGRAPHIC CONDITIONS (AS APPROVED BY THE TDOT PROJECT ENGINEER).

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL PLAN

GENERAL NOTES

24-FEB-2010 15:53

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	32B

GENERAL EROSION CONTROL NOTES (CONT.)

(59) THE UTILITY CONTRACTOR WILL PROVIDE APPROPRIATE EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURE REMOVED TO FACILITATE THE INSTALLATION OF UTILITIES. REPLACEMENT OF EPSC MEASURES WILL BE COORDINATED WITH THE TDOT PROJECT ENGINEER BEFORE COMMENCING WORK.

(60) PERMANET EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) MEASURES SHALL BE INITIATED WITHIN 15 CALENDAR DAYS AFTER FINAL GRADING OF ANY SEQUENCE OR PHASE. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED WITHIN 15 DAYS AFTER FINAL GRADING OR WHEN CONSTRUCTION ACTIVITIES ON A PROTION OF THE SITE ARE TEMPORARILY CEASED AND EARTH DISTURBING ACTIVITIES WILL NOT RESUME UNTIL AFTER 15 CALENDER DAYS. PERMANENT STABILIZATION WITH PERENNIAL VEGETATION OR OTHER PERMANENTLY STABLE, NON-ERODING SURFACE SHALL REPLACE ANY TEMPORARY MEASURES AS SOON AS PRACTICLE. UNPACKED GRAVEL CONTAINING FINES (SILT AND CLAY SIZED PARTICLES) OR CRUSHER RUNS WILL NOT BE CONSIDERED TO BE A NON-ERODIBLE SURFACE.

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL PLAN

GENERAL NOTES

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	32C

EROSION CONTROL STANDARD DRAWINGS

ECM-STR-1	03-15-04	PAY ITEMS, GENERAL NOTES, AND TEMPORARY DEWATERING STRUCTURE
ECM-STR-2	10-26-03	TEMPORARY SEDIMENT FILTER BAGS
ECM-STR-3B	07-29-04	TEMPORARY SILT FENCE
ECM-STR-3C	07-29-04	TEMPORARY SILT FENCE WITH BACKING
ECM-STR-3E		EROSION CONTROL FABRIC JOINING DETAILS
ECM-STR-6	10-26-03	ROCK CHECK DAMS
ECM-STR-19	03-15-04	CATCH BASIN PROTECTION
ECM-STR-21	05-27-01	PERMANENT RIP-RAP BASIN ENERGY DISSIPATER
ECM-STR-27	05-27-01	TEMPRORARY SLOPE DRAINS AND BERMS
ECM-STR-31	10-26-03	TEMPORARY DIVERSION CHANNELS

EROSION CONTROL QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY PHASE 1	QUANTITY PHASE 2	QUANTITY PHASE 3	TOTAL QUANTITY	UNIT
209-02.03	8" TEMPORARY SLOPE DRAIN				0	L.F.
209-05	SEDIMENT REMOVAL				0	C.Y.
209-08.02	TEMPORARY SILT FENCE (WITH BACKING)				0	L.F.
209-08.03	TEMPORARY SILT FENCE (WITHOUT BACKING)				0	L.F.
209-09.01	SANDBAGS				0	BAG
209-09.02	TEMPORARY SEDIMENT FILTER BAG (14'6" X 2'0" X 13'3")				0	BAG
209-20.03	POLYETHYLENE SHEETING (6 MIL. MINIMUM)				0	S.Y.
209-40.41	CATCH BASIN FILTER ASSEMBLY(TYPE 1)				0	EACH
303-10.01	MINERAL AGGREGATE (SIZE 57)				0	TON
709-05.06	MACHINED RIP-RAP (CLASS A-1)				0	TON
740-10.03	GEOTEXTILE (TYPE III)(EROSION CONTROL)				0	S.Y.
801-01.07	TEMPORARY SEEDING (WITH MULCH)				0	UNIT
801-03	WATER (SEEDING & SODDING)				0	M.G.
805-12.02	EROSION CONTROL BLANKET (TYPE II)				0	S.Y.

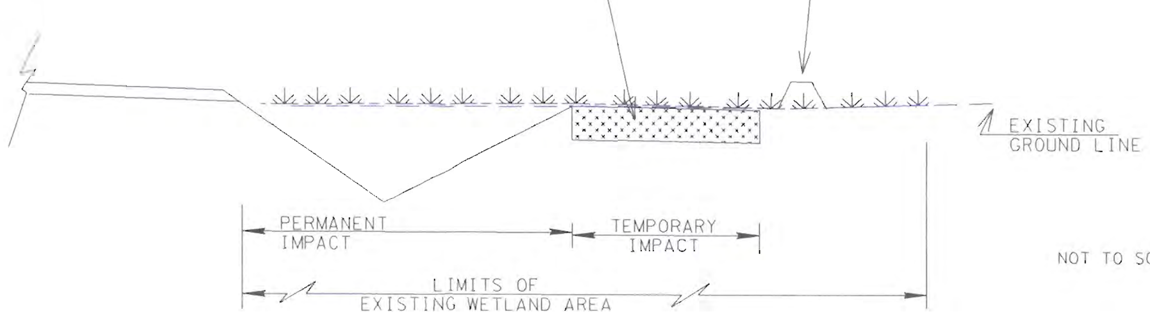
EROSION CONTROL LEGEND

SYMBOL	ITEM	STD. DWG.
* SF * SF * SF *	TEMPORARY SILT FENCE	ECM-STR-3B
* SFB * SFB * SFB *	TEMPORARY SILT FENCE WITH BACKING	ECM-STR-3C
	TEMPORARY BERM	ECM-STR-27
	TEMPORARY SLOPE DRAIN	ECM-STR-27
	RIP-RAP	ECM-STR-27
	TEMPORARY ROCK CHECK DAM IN V-DITCH	ECM-STR-6
	TEMPORARY DIVERSION CHANNEL	ECM-STR-31
	TEMPORARY DIVERSION CULVERT (DESCRIPTION)	ECM-STR-32
	TEMPORARY ROCK SILT SCREEN AT PIPE INLETS	ECM-STR-11
RP ED	PERMANENT RIP-RAP ENERGY DISSIPATOR	ECM-STR-21
SFB	TEMPORARY SEDIMENT FILTER BAG	ECM-STR-2
M1	TEMPORARY ROCK CATCHBASIN PROTECTION (MULTI-DIRECTIONAL FLOW)	ECM-STR-19

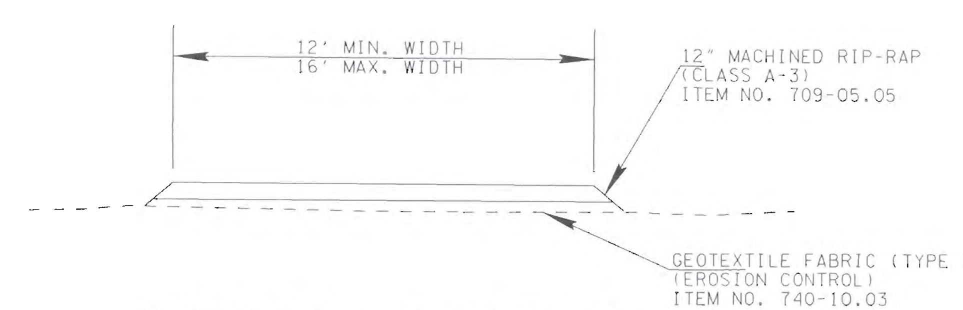
EXCAVATION OF TEMPORARY WETLAND IMPACT AREA AND TEMPORARY BERM WITH SILT FENCE IN WETLAND AREA DETAILS

WETLANDS EXCAVATION AND RELOCATION APPROX 1'-0" DEPTH. ITEM NO. 203-12.30 (EXCAVATED MATERIAL (LESS THE MATERIAL FOR TEMPORARY BERM IN WETLAND AREAS) TO BE STOCKPILED, MAINTAINED AND REPLACED UPON COMPLETION OF AREA ROADWAY SLOPES.

USE MATERIAL EXCAVATED FROM TEMPORARY IMPACT AREA TO BUILD TEMPORARY BERM ADJACENT TO THE TEMPORARY IMPACT AREAS.



NOT TO SCALE



TYPICAL SECTION

TEMPORARY CONSTRUCTION ROAD

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION AND SEDIMENT CONTROL PLAN

QUANTITIES & DETAILS

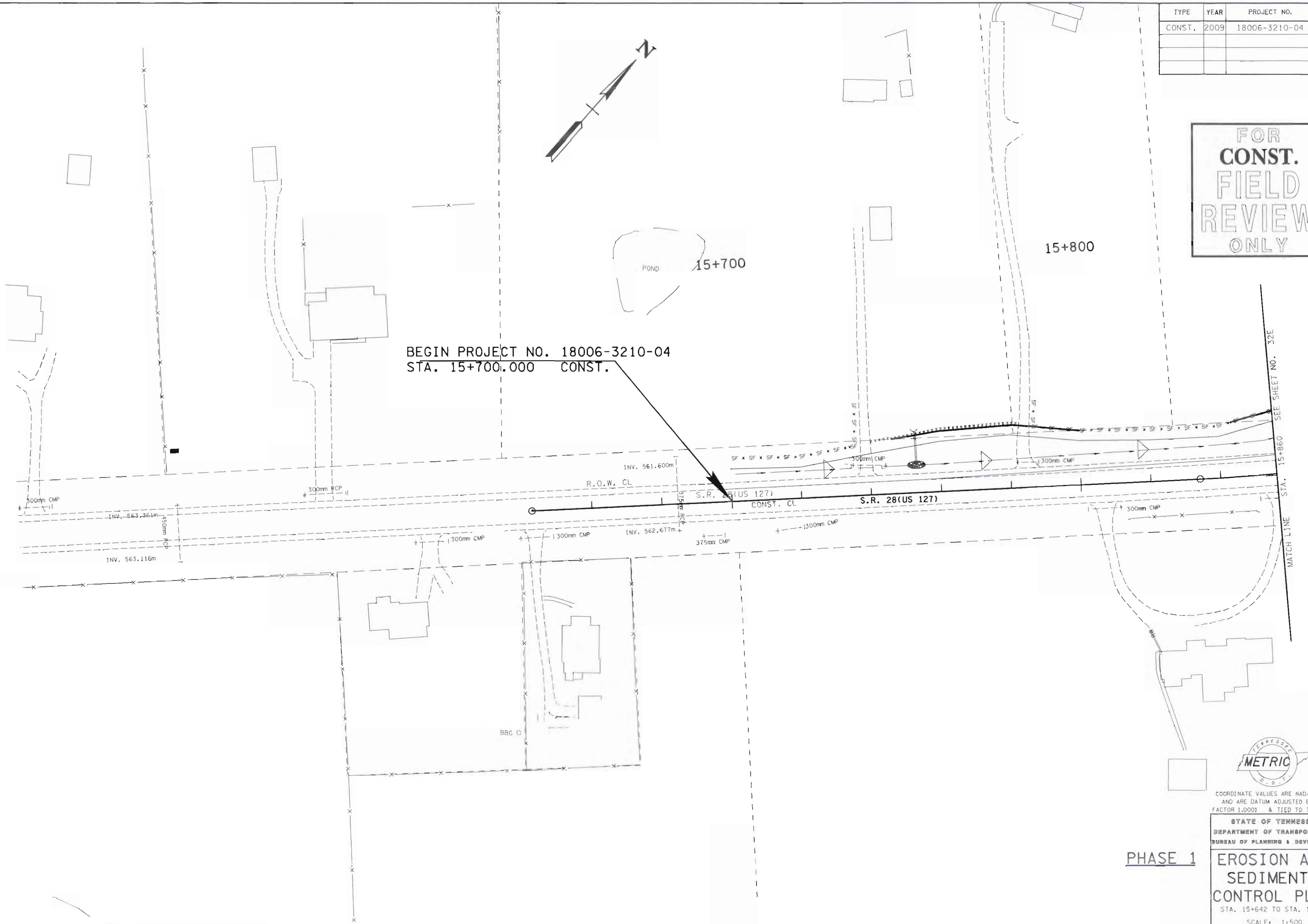
24-FEB-2010 15:54
\\JJ02WF01\chat.tenn\02Shared\Design County Folders\Cumberland\SR28sawmillroad\cumb28v8\cumb28\FinalDesign2005\Construction plansJB\Constr\ntplansheets\CM28L32C.SHT

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	32D

FOR CONST. FIELD REVIEW ONLY



METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION AND SEDIMENT CONTROL PLAN

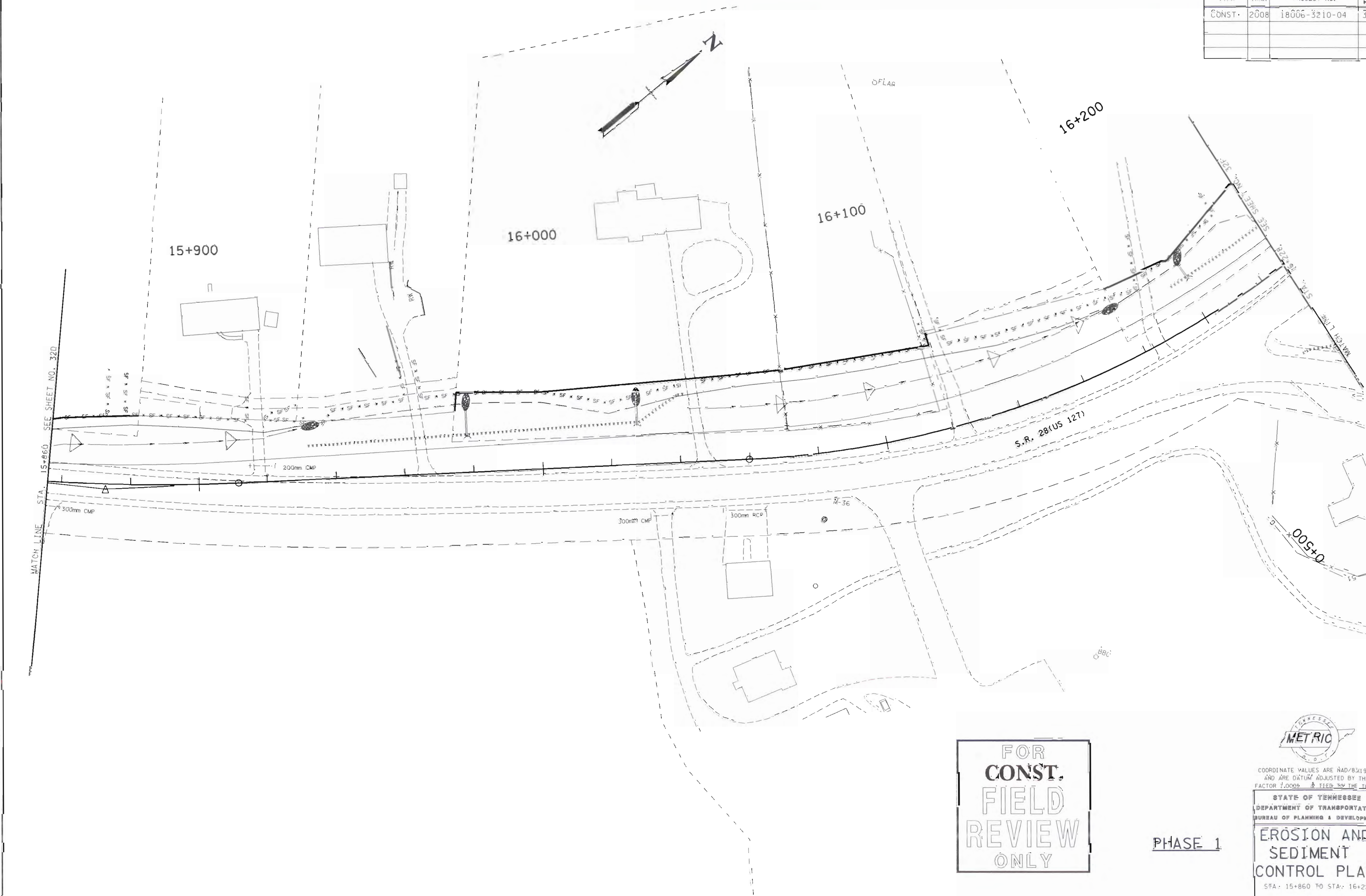
STA. 15+642 TO STA. 15+860

SCALE: 1:500

24-FEB-2010 15:54
\\JJ02WF0L\chat.tenn\02Shared\Design County Folders\Cumberland\SR28sawmillroad\cumb28v8\cumb28\FinalDesign\2005\Construction plansJB\Constr\ntplansheets\CM28L32D.SHT

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2008	18006-3210-04	32E



24-FEB-2010 15:54
\\JJ02WFOL\chgt.tenn\02Shared\Design County Folders\Cumberland\SR28sawmillroad\cumb28vB\cumb28\FinalDesign2005\Construction plans\B\Constr\nplansheets\CM28L32E.SHT

FOR CONST. FIELD REVIEW ONLY

PHASE 1

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

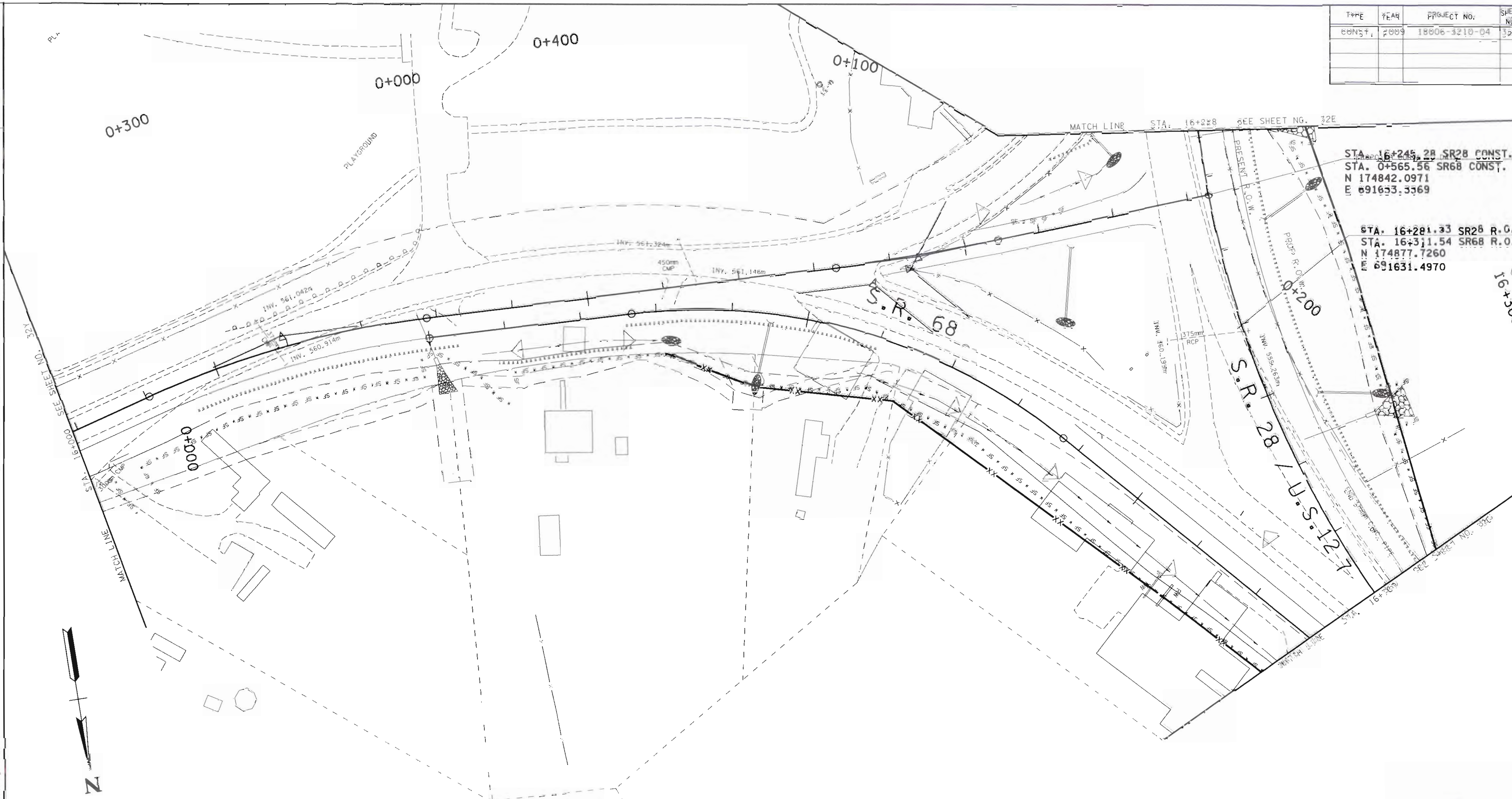
EROSION AND SEDIMENT CONTROL PLAN

STA. 15+860 TO STA. 16+220

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	32F

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



24-FEB-2010 16:54

FOR
CONST.
FIELD
REVIEW
ONLY

PHASE 1

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

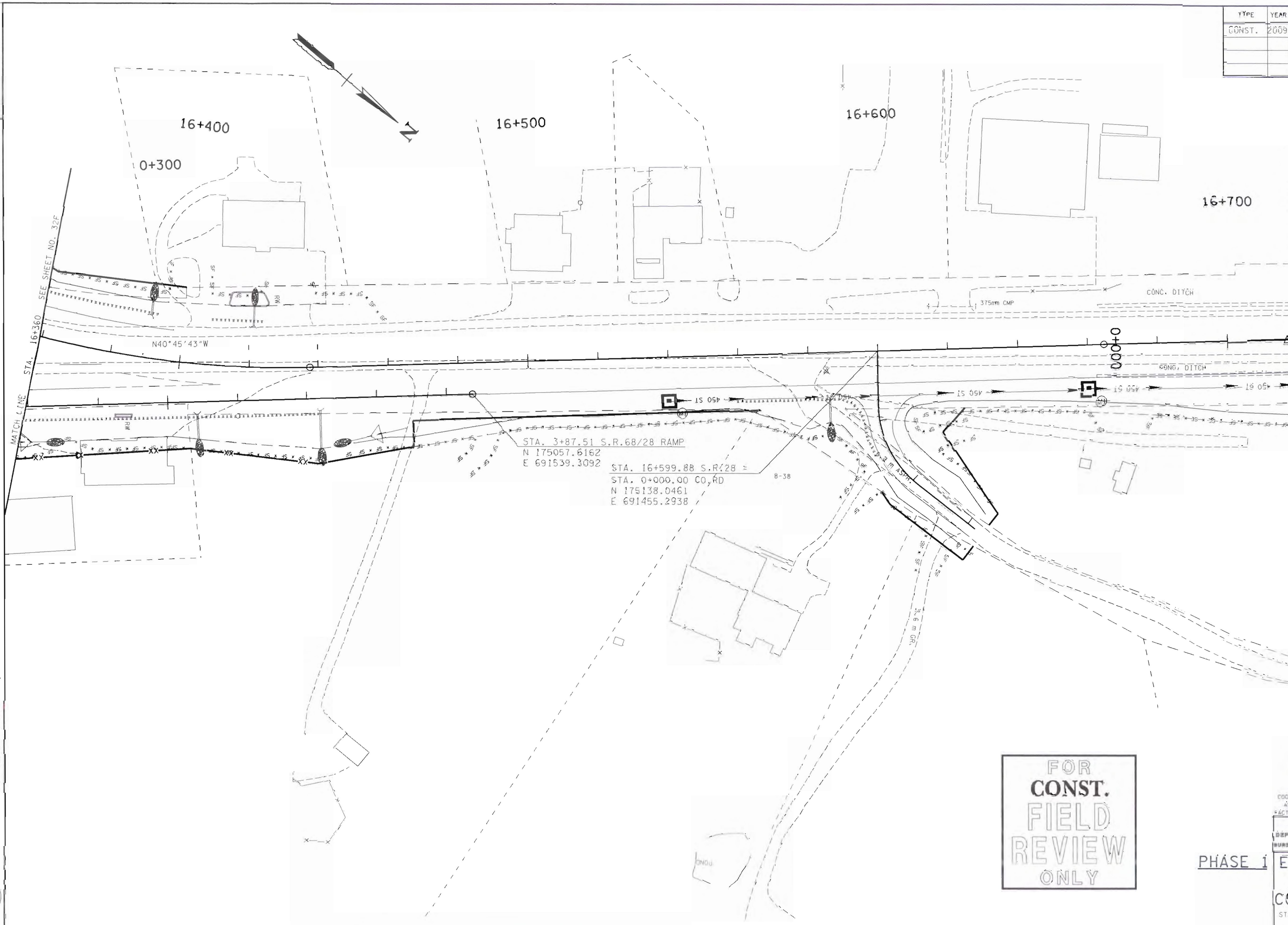
EROSION AND SEDIMENT CONTROL PLAN

STA. 16+000 TO STA. 16+360

SCALE: 1:500

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	32G



FOR
CONST.
FIELD
REVIEW
ONLY

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0000... TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PHASE 1

EROSION AND SEDIMENT CONTROL PLAN

STA. 16+360 TO STA. 16+720

SCALE: 1:500

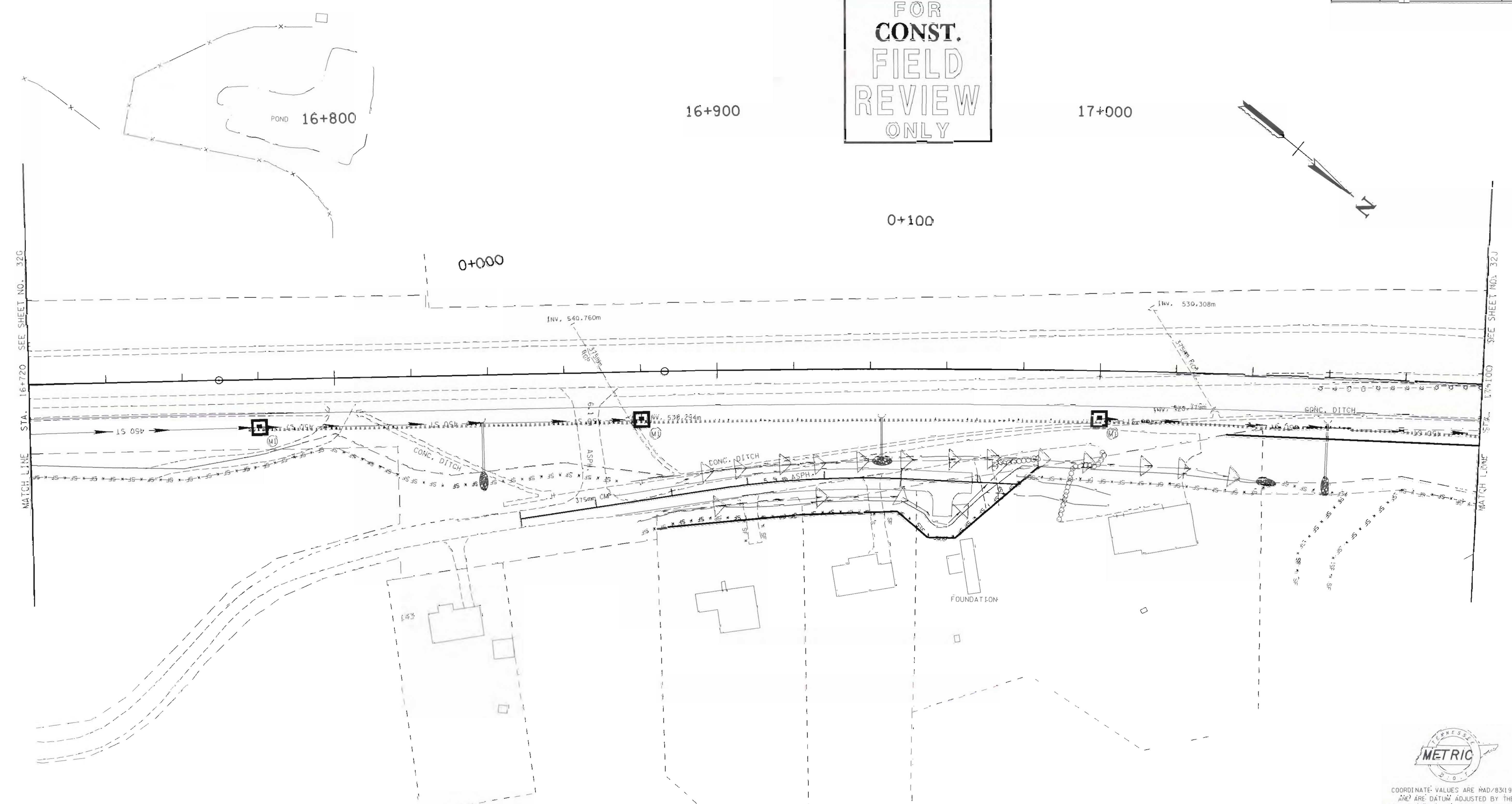
24-FEB-2010 15:54
\\JJ02WFS\...\CM28L32G.SHT

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	32L

FOR CONST. FIELD REVIEW ONLY



METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PHASE 1

EROSION AND SEDIMENT CONTROL PLAN

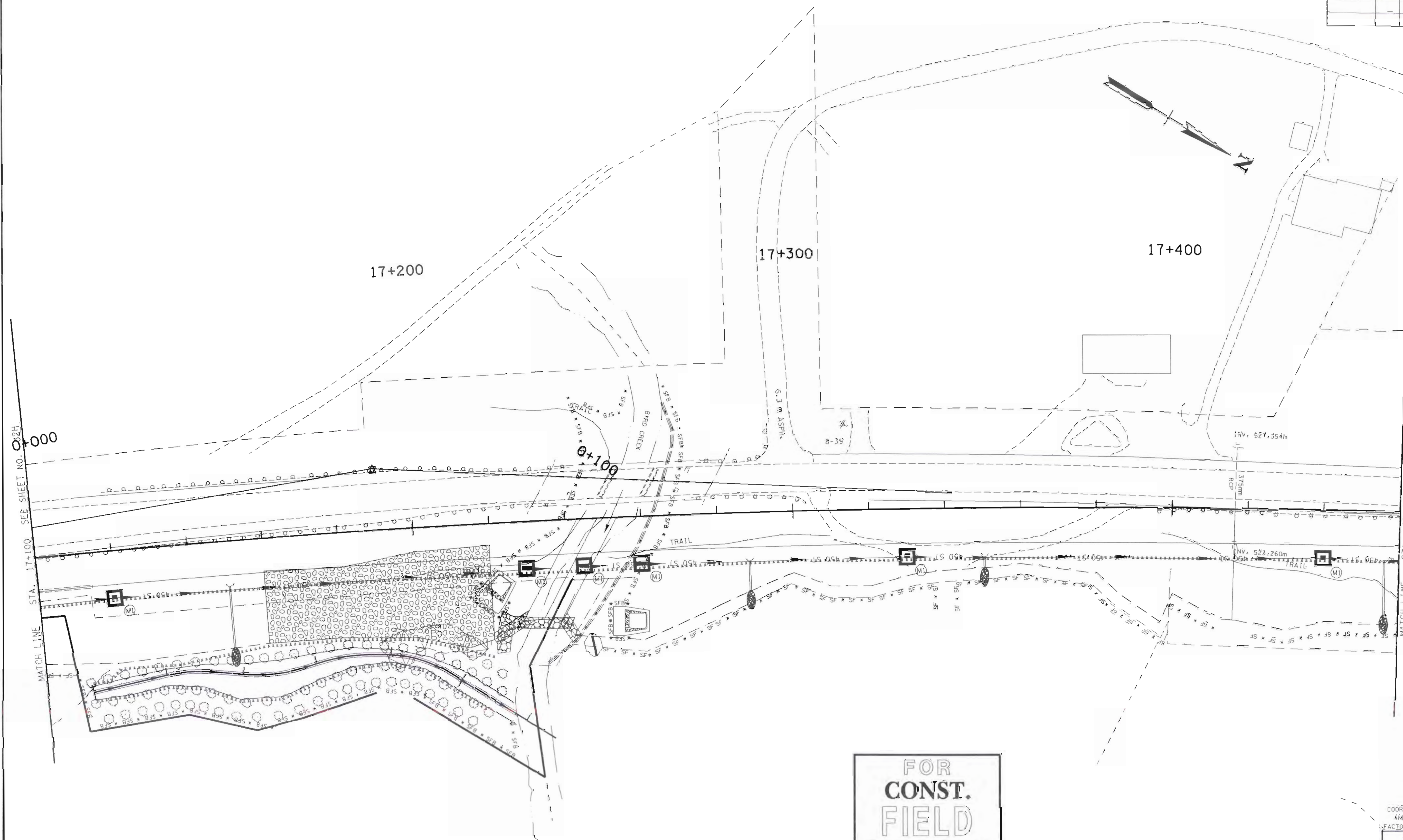
STA. 16+720 TO STA. 17+100

SCALE: 1:500

24-FEB-2010 15:54

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	32J



FOR CONST. FIELD REVIEW ONLY

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

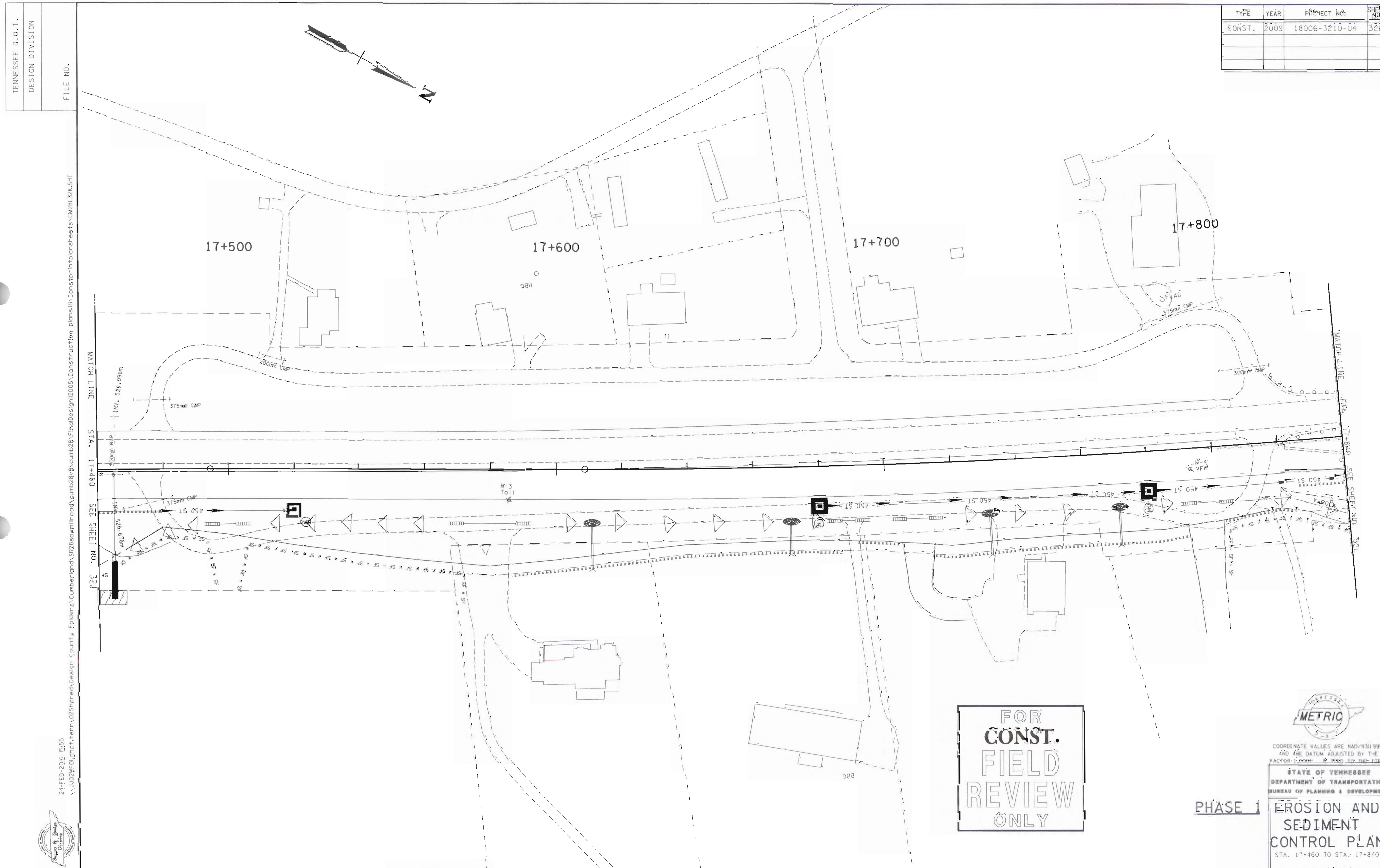
PHASE 1

EROSION AND SEDIMENT CONTROL PLAN

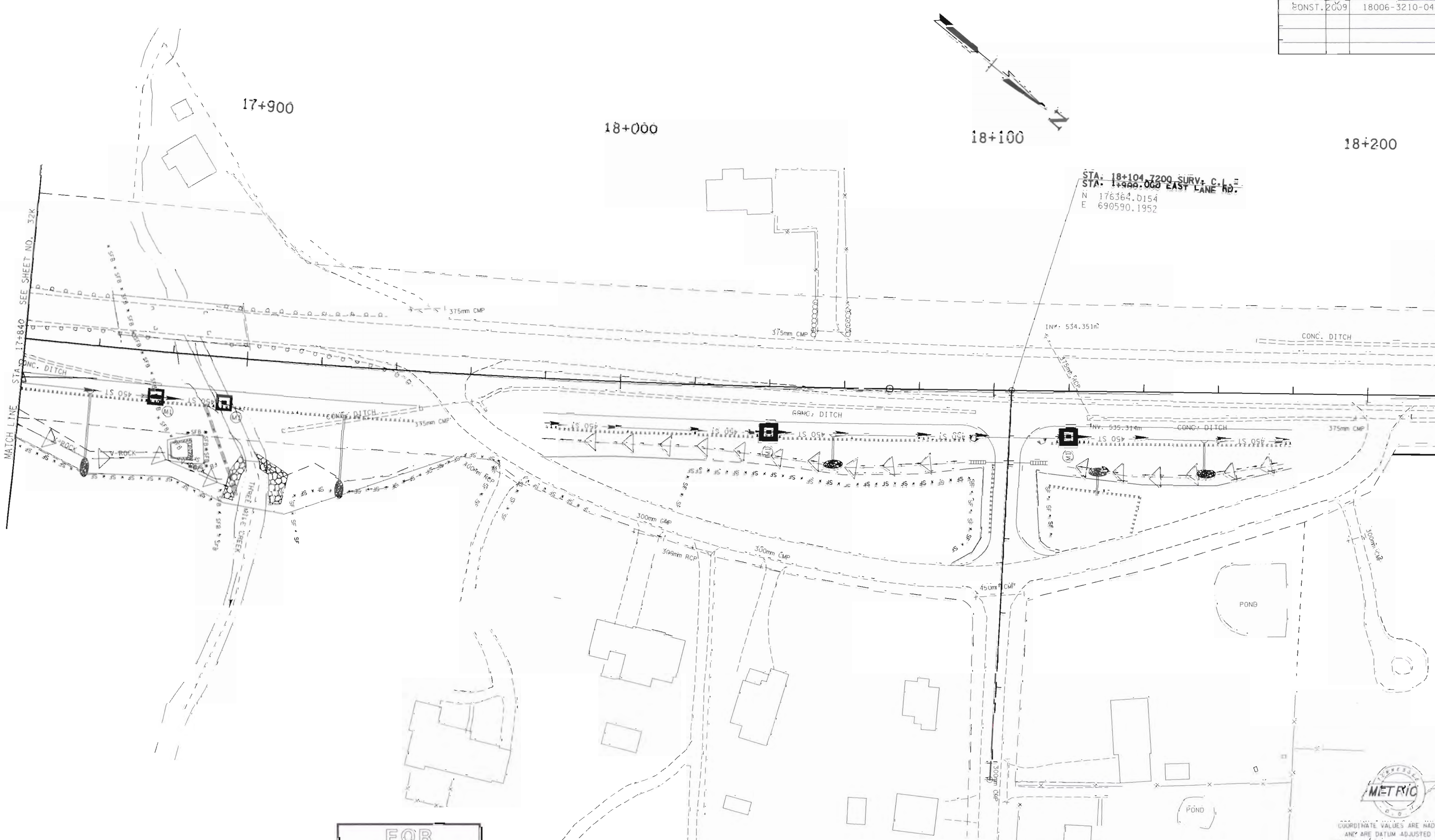
STA. 17+100 TO STA. 17+460

SCALE: 1:500

24-FEB-2010 15:55
\\JJ02WFDL\chat.tenn\02Shared\Design County Folders\Cumberland\SR28sawmillroad\cumb28\Final\Design\2005\Construction plans\B\Constr\plansheets\CM28L32J.SHT


TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	32K
N
17+500
17+600
17+700
17+800
MATCH LINE STA. 17+460 SEE SHEET NO. 32J
MATCH LINE STA. 17+840 SEE SHEET NO. 32L
200mm CMP
375mm CMP
300mm CMP
M-3
M-4
450 ST
SF
FOR CONST. FIELD REVIEW ONLY
METRIC
PHASE 1
STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT
EROSION AND SEDIMENT CONTROL PLAN
STA. 17+460 TO STA. 17+840
SCALE: 1:500
24-FEB-2010 15:55

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	32L



METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0000 & TIED TO THE TDRN.

FOR CONST. FIELD REVIEW ONLY

PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION AND SEDIMENT CONTROL PLAN

STA. 17+840 TO STA. 18+220

SCALE: 1:500

24-FEB-2010 15:55

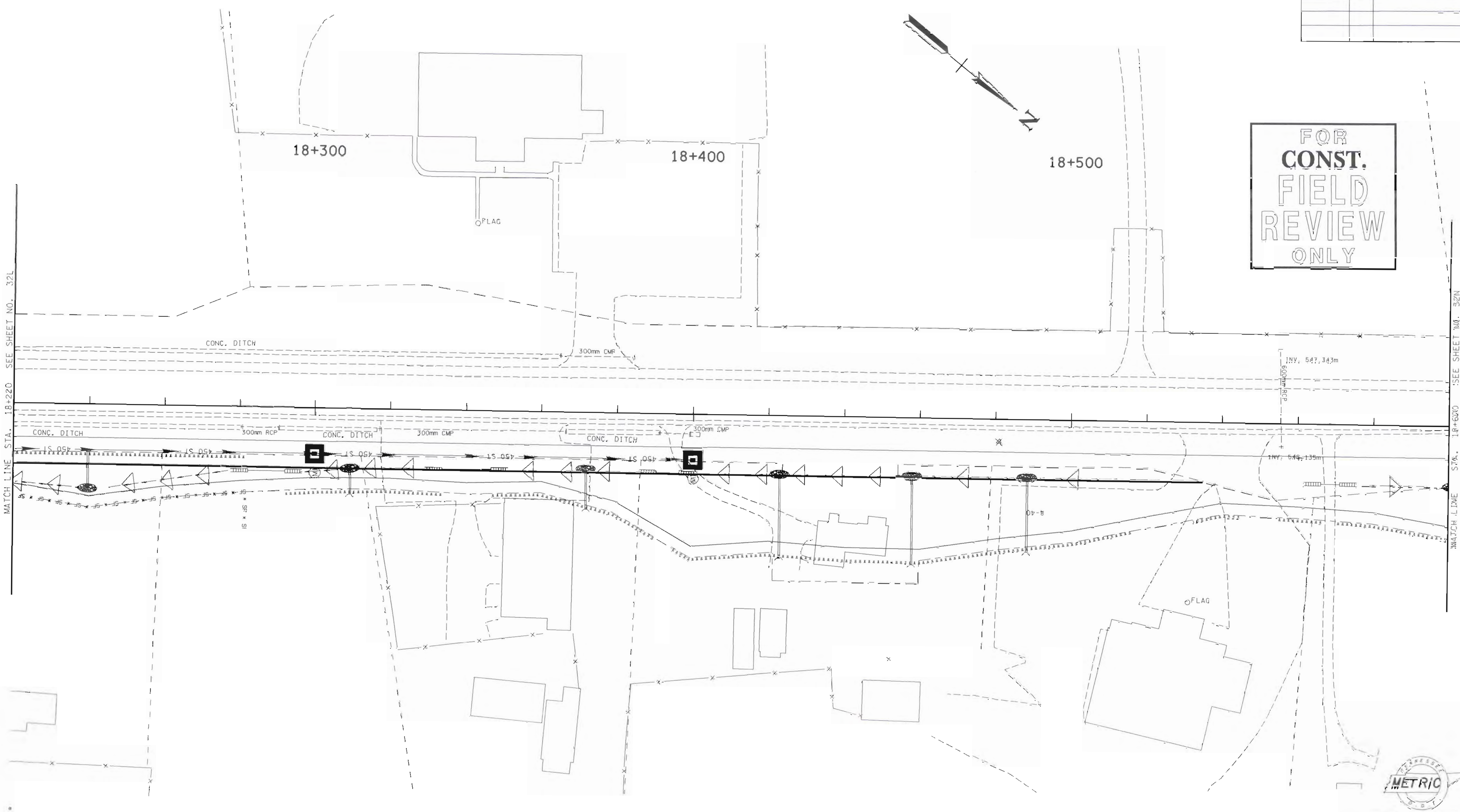
TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18005-3210-04	32M

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

24-FEB-2010 15:55
\\J02WF04\cnat.tenn\02Shared\Design County Folders\Cumberland\SR28sawmillroad\cumb28v8\cumb28v8\FinalDesign\2005\Construction plans\JB\Constr\nt\plansheets\CM28L32M.SHT

FOR CONST. FIELD REVIEW ONLY



METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN

PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

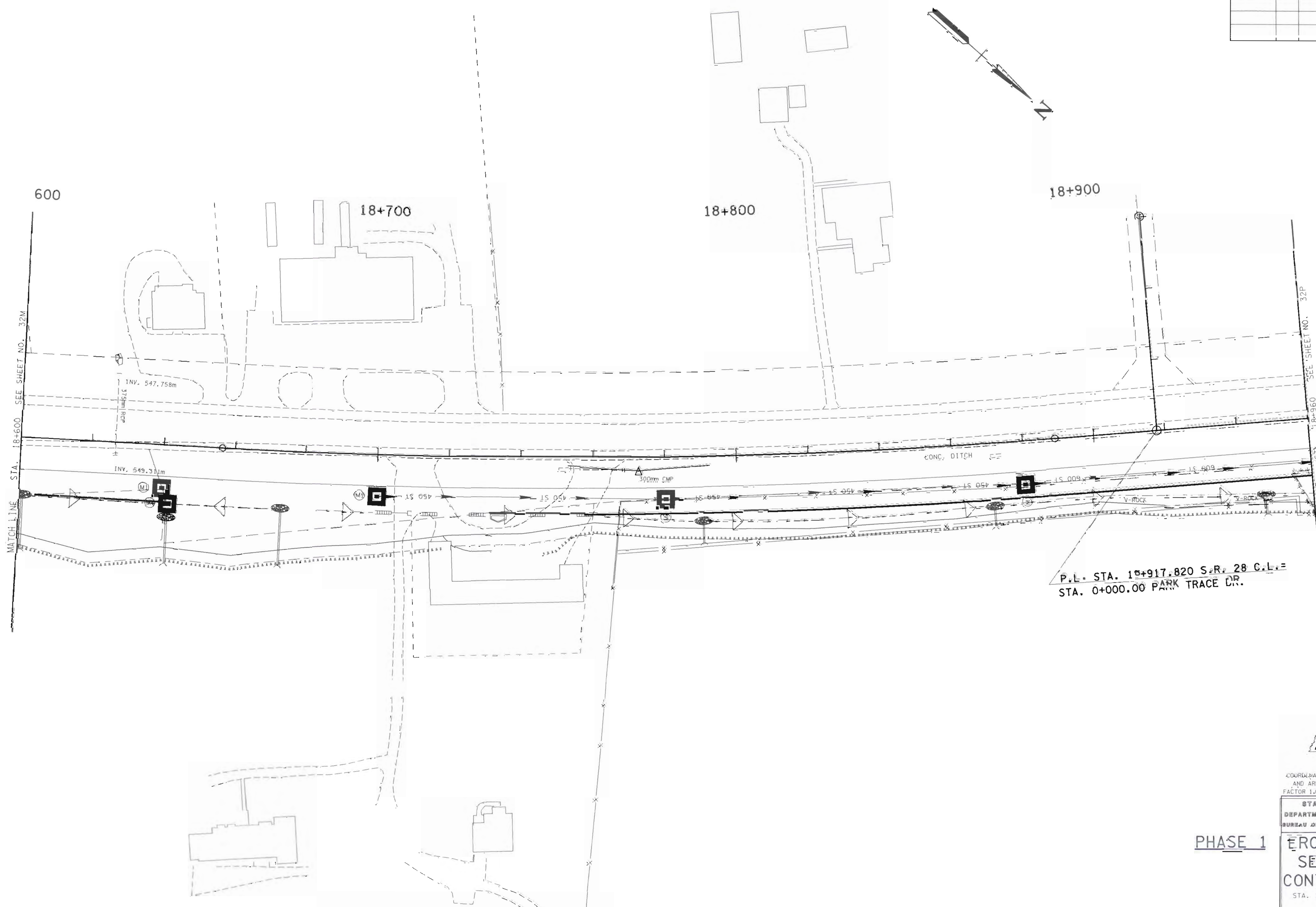
EROSION AND SEDIMENT CONTROL PLAN

STA. 18+220 TO STA. 18+600

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	32N

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



24-FEB-2010 15:59

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION AND SEDIMENT CONTROL PLAN

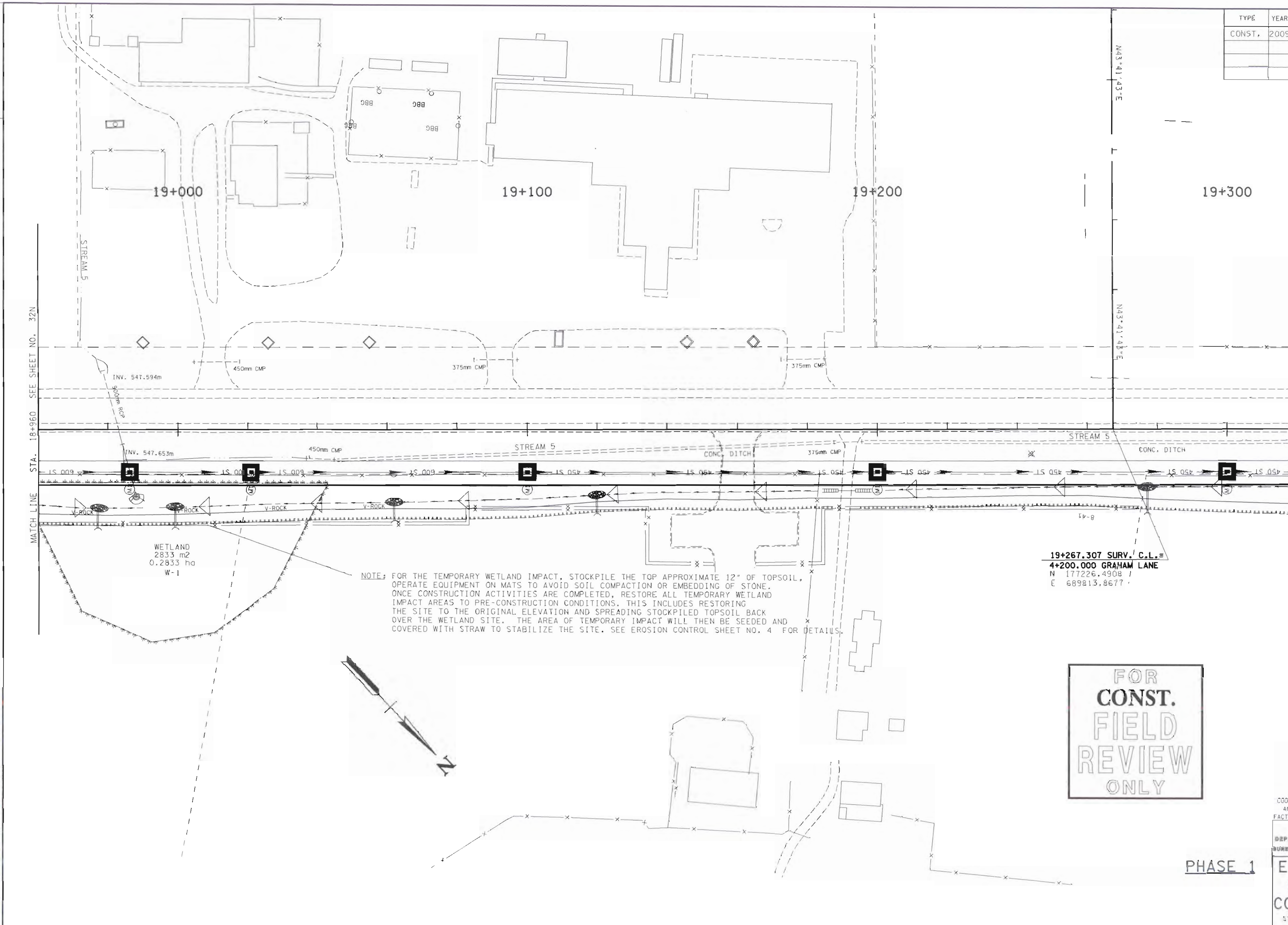
STA. 18+600 TO STA. 18+960

SCALE: 1:500

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

24-FEB-2010 15:56

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	32P



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PHASE 1

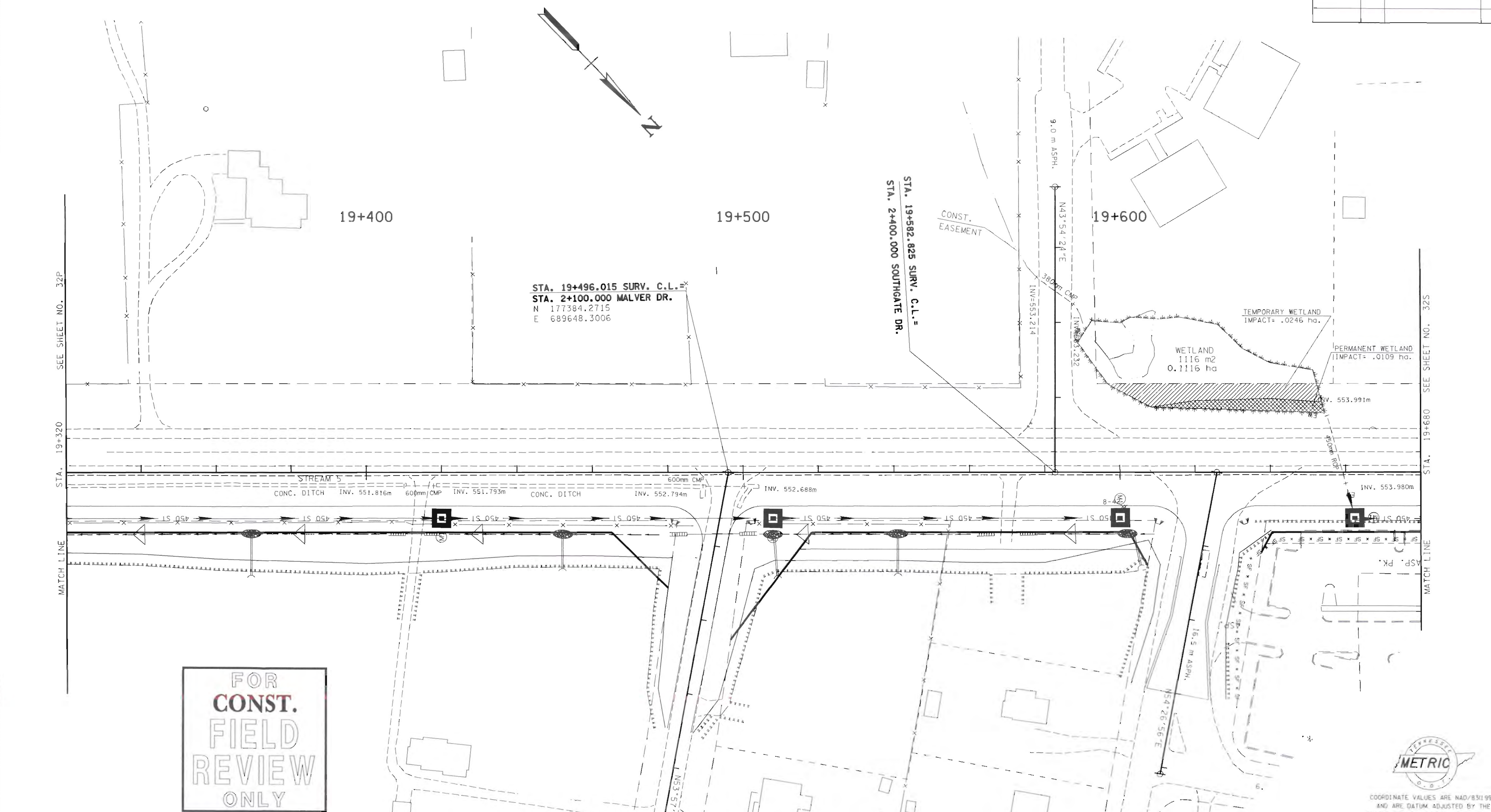
EROSION AND SEDIMENT CONTROL PLAN

STA. 18+960 TO STA. 19+320

SCALE: 1:500

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	32R



FOR CONST. FIELD REVIEW ONLY

24-FEB-2010 15:56
\\JJ02WF0\cnat.tenn\02Shared\Design County Folders\Cumberland\SR28sawmillroad\cumb28v8\cumb28\FinalDesign\2005\Construction plans\B\Constprintplansheets\CM28L32R.SHT

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PHASE 1

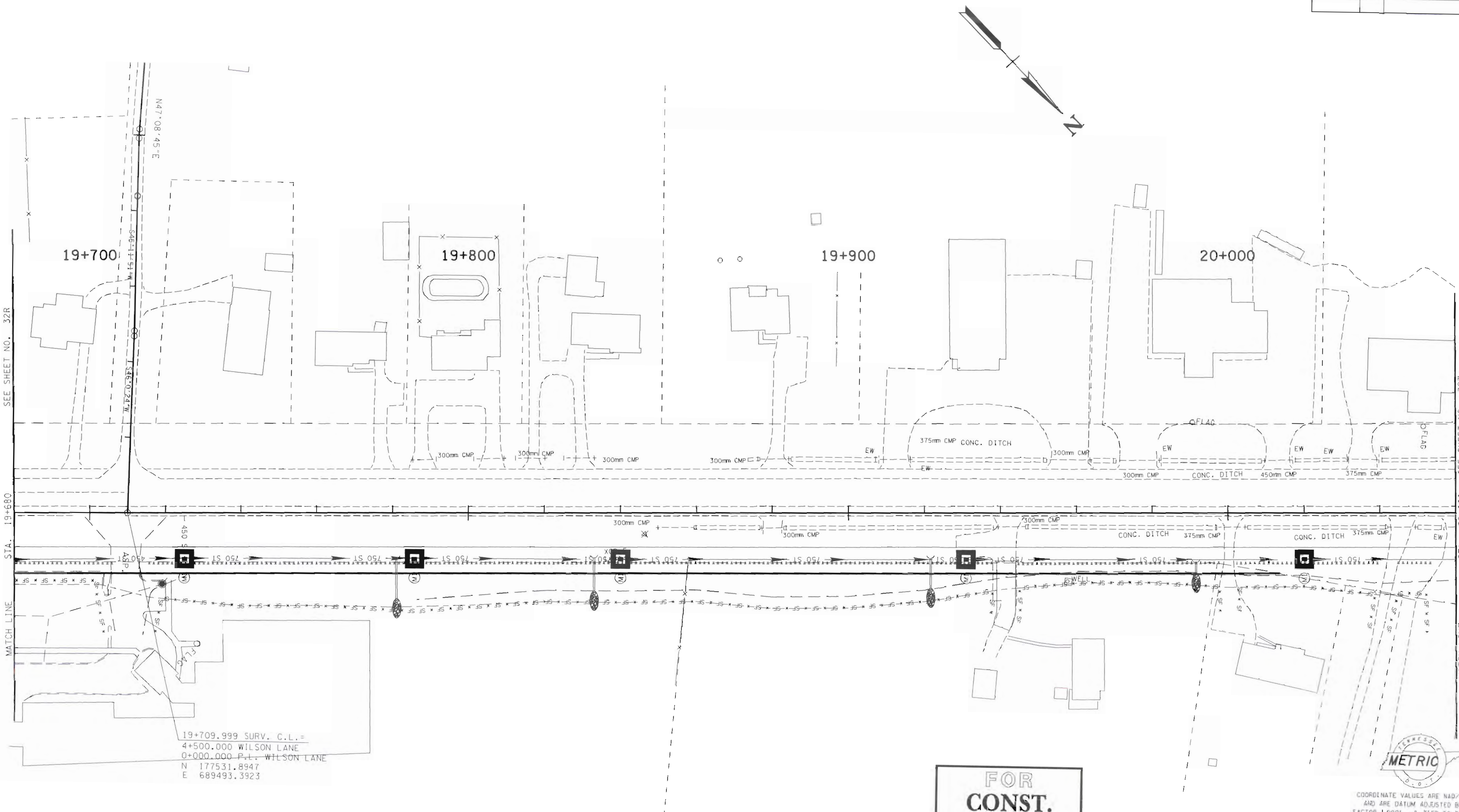
EROSION AND SEDIMENT CONTROL PLAN

STA. 19+320 TO STA. 19+680

SCALE: 1:500

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	32S



FOR CONST. FIELD REVIEW ONLY

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

PHASE 1

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION AND SEDIMENT CONTROL PLAN

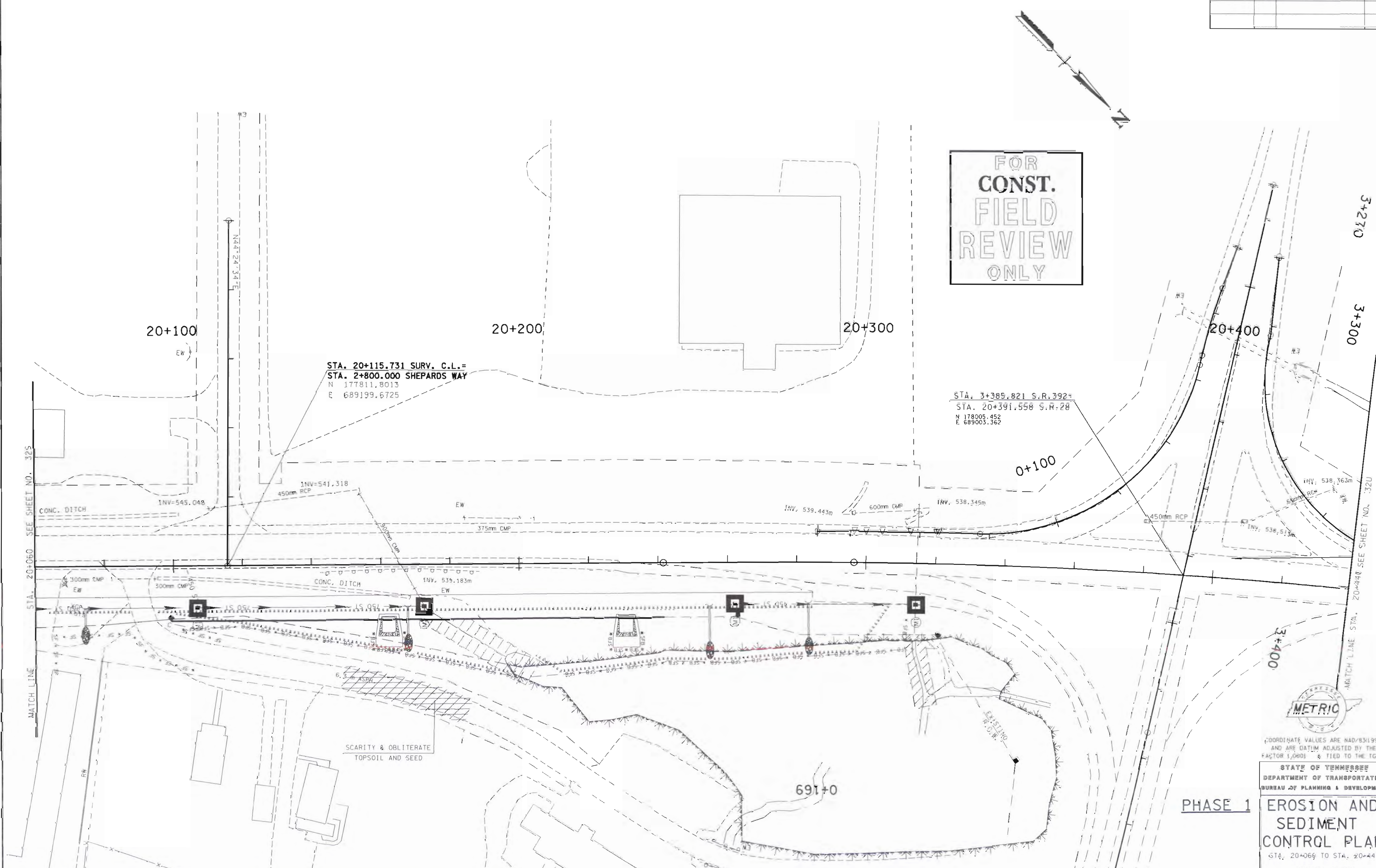
STA. 19+680 TO STA. 20+060

SCALE: 1:600

24-FEB-2010 15:56
\\JJ02WF01\cnot.tenn\02Shared\Design County Folders\Cumberland\SR28sawmillroad\cumb28v8\cumb28\FinalDesign\2005\Construction plans\JB\Constprintplansheets\CM28L32S.SHT

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	32T



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PHASE 1 EROSION AND SEDIMENT CONTROL PLAN

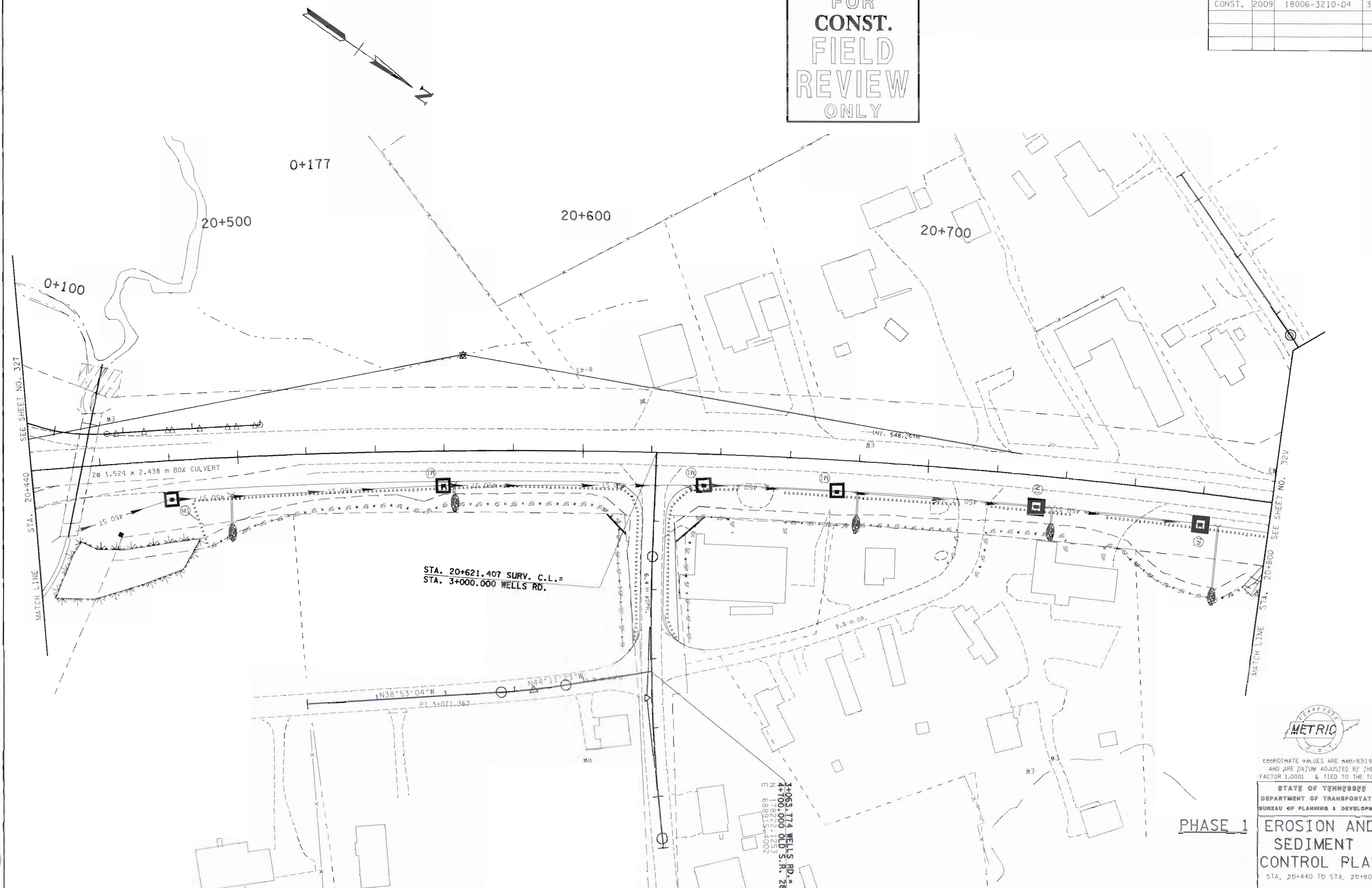
STA. 20+060 TO STA. 20+440

SCALE: 1:500

24-FEB-2010 15:07
\\JJ02WF01\Shat.Tenn\02Shared\Design County Folders\Cumberland\SR28sawmillroad\cumb28\cumb28v8\cumb28v8\FinalDesign\2005\Construction plans\B\Constprintplansheets\CM28L32T.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	32U

FOR
CONST.
FIELD
REVIEW
ONLY



METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PHASE 1

EROSION AND SEDIMENT CONTROL PLAN

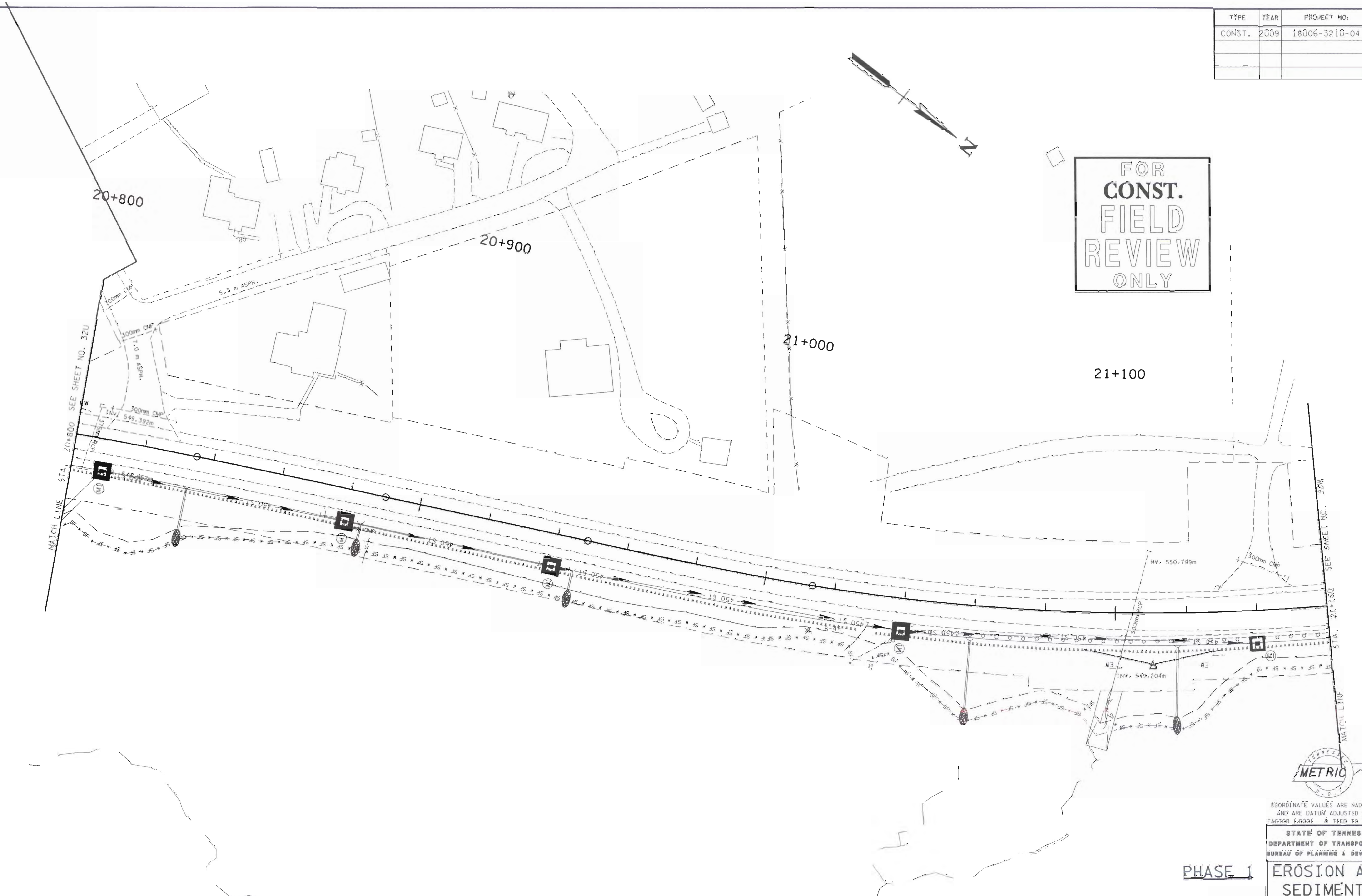
STA. 20+440 TO STA. 20+800

SCALE: 1:500

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	32V



PHASE 1

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION AND SEDIMENT CONTROL PLAN

STA. 20+800 TO STA. 21+160

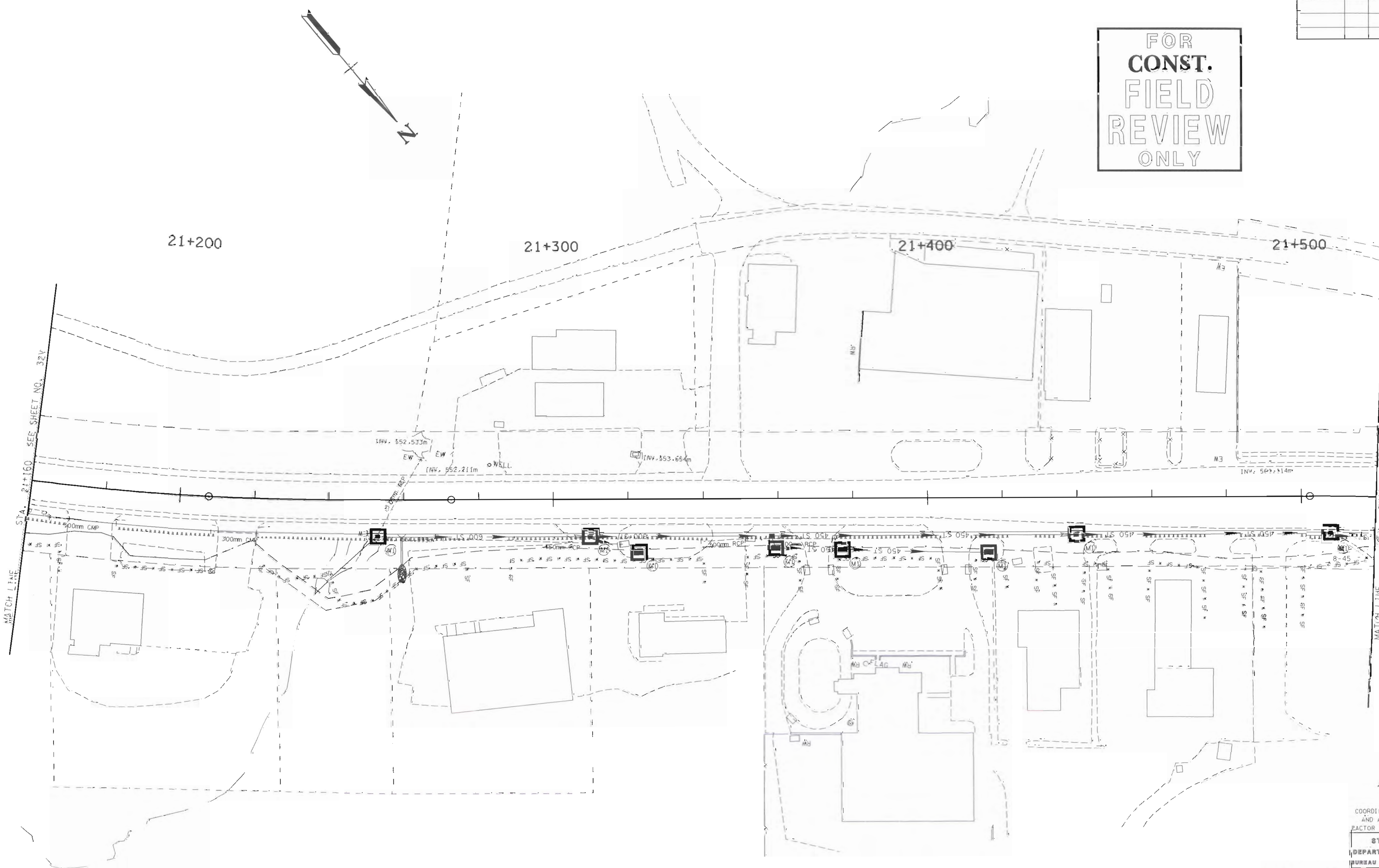
SCALE: 1:500

24-FEB-2010 15:57
\\JJC2WF0\chat.tenn\o2Shared\Design County Folders\Cumberland\SR28sawmillroad\cumb28v8\cumb28\FinalDesign2005\Construction plans\B\Constr\ntplansheets\CM28L32V.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	32W

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

FOR
CONST.
FIELD
REVIEW
ONLY



PHASE 1

COORDINATE VALUES ARE NAD/83(1995)
AND ARE DATUM ADJUSTED BY THE
FACTOR 1.0001 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION AND SEDIMENT CONTROL PLAN

STA. 21+160 TO STA. 21+520

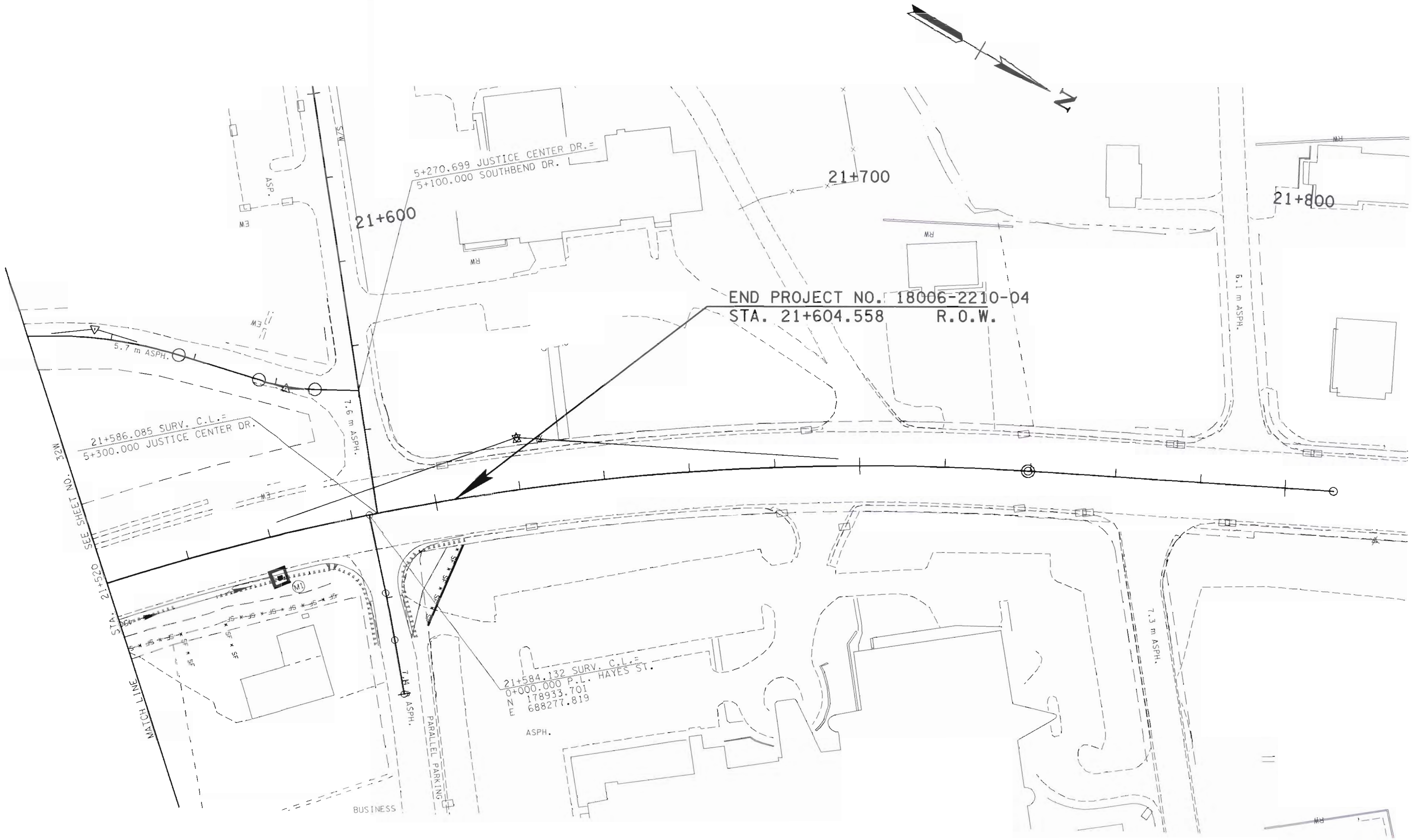
SCALE: 1:500

24-FEB-2010 15:57

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	32X



FOR
CONST.
FIELD
REVIEW
ONLY

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PHASE 1

EROSION AND SEDIMENT CONTROL PLAN

STA. 21+520 TO STA. 21+810

SCALE: 1:500

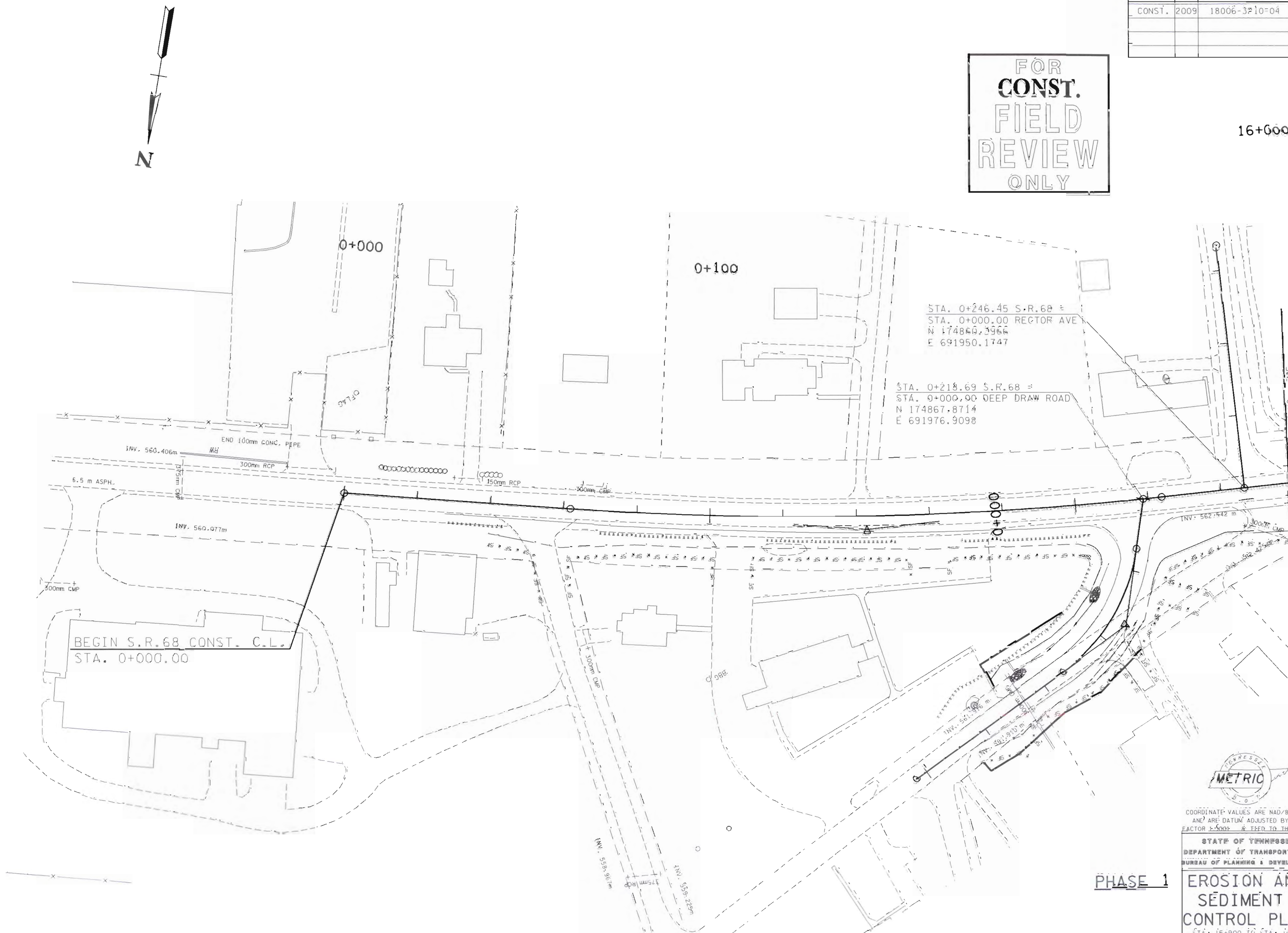
24-FEB-2010 15:57
\\JJ02WF01\chat,tenn\02Shared\Design County Folders\Cumberland\SR28sawmillroad\cumb28\cumb28v8\FinalDesign2005\Construction plans\B\Constrprintplansheets\CM28L32X.SHT

Survey & Design Division

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	32Y

FOR CONST. FIELD REVIEW ONLY



METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0000 & TIED TO THE TGRN

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PHASE 1

EROSION AND SEDIMENT CONTROL PLAN

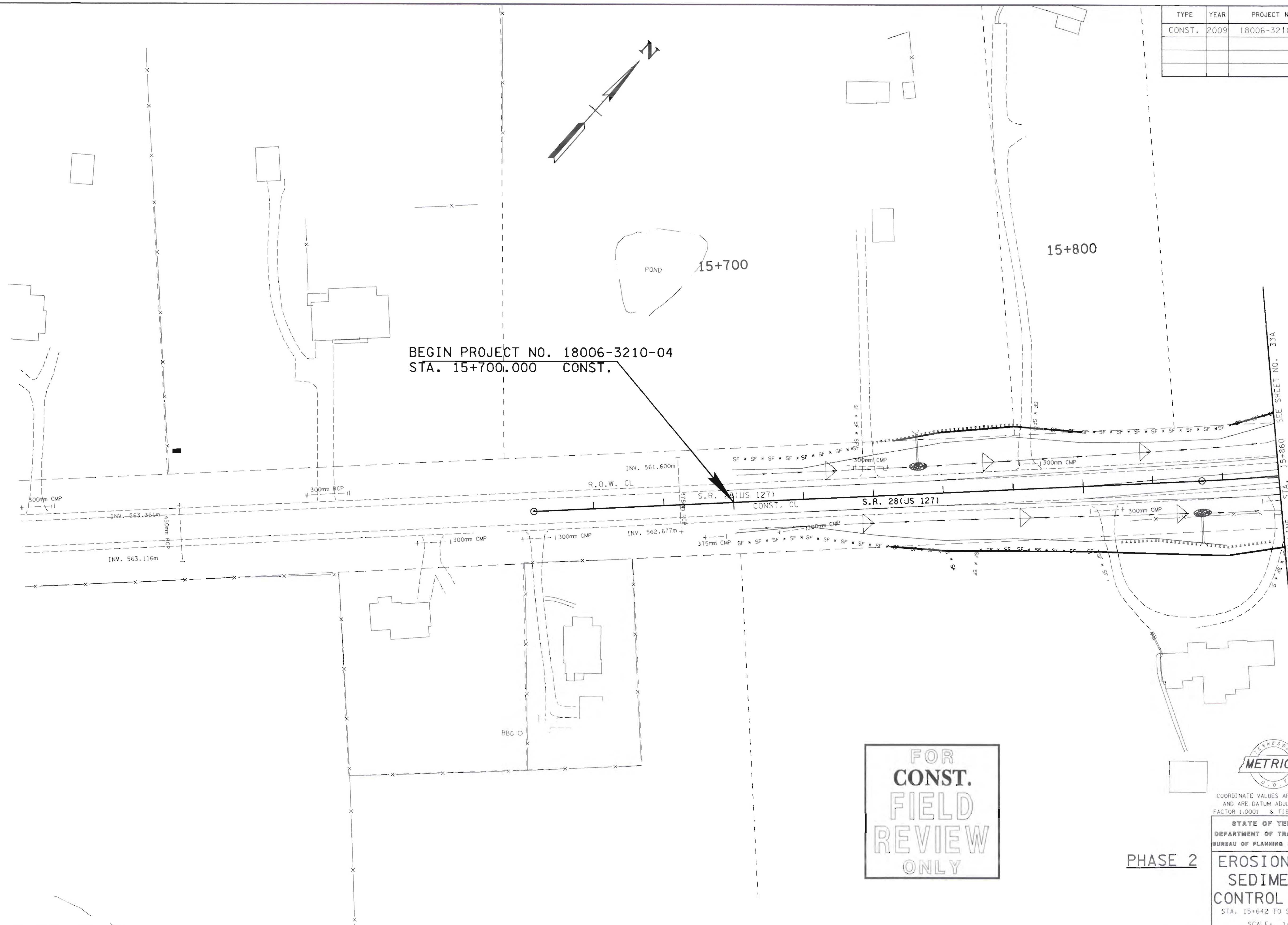
STA. 15+900 TO STA. 16+000

SCALE: 1:500

24-FEB-2010 15:58
\\JJ02WF01\chq\s.tenny\02Shared\Design County Folders\Cumberland\SR28sawmillroad\cumb28\cumb28v8\cumb28\FinalDesign\2005\Construction plans\B\Constr\plansheets\CM28L32Y.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	33

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



FOR CONST. FIELD REVIEW ONLY

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PHASE 2

EROSION AND SEDIMENT CONTROL PLAN

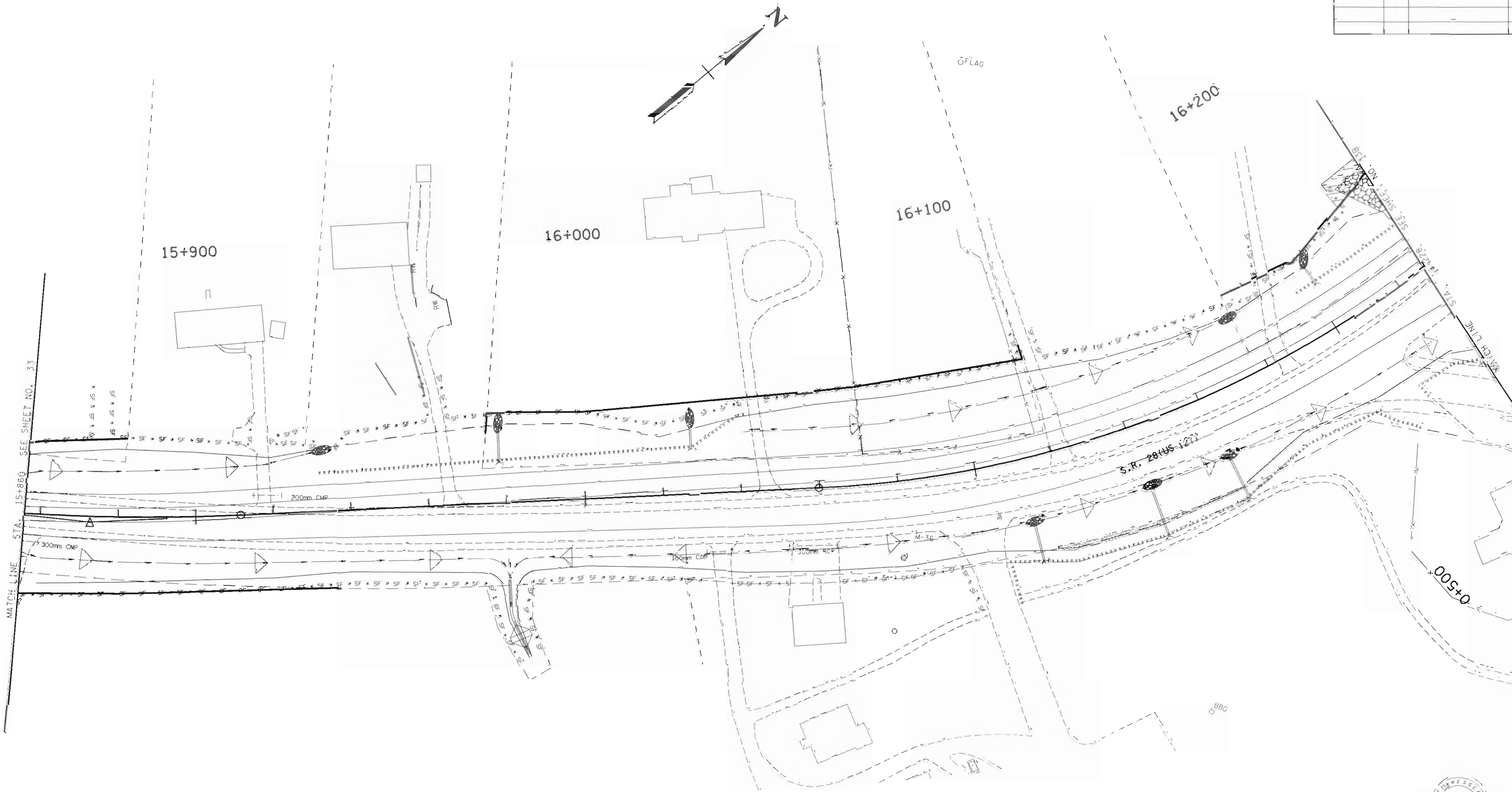
STA. 15+642 TO STA. 15+860

SCALE: 1:500

24-FEB-2010 15:58
\\J02WF01\chat.tenn\02Shared\Design County Folders\Cumberland\SR28sawmillroad\cumb28\cumb28v8\Construction plansJB\Constprintplansheets\CM28L33.SHT

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	33A



FOR CONST. FIELD REVIEW ONLY

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR ... TIED TO THE TGRN

PHASE 2

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION AND SEDIMENT CONTROL PLAN

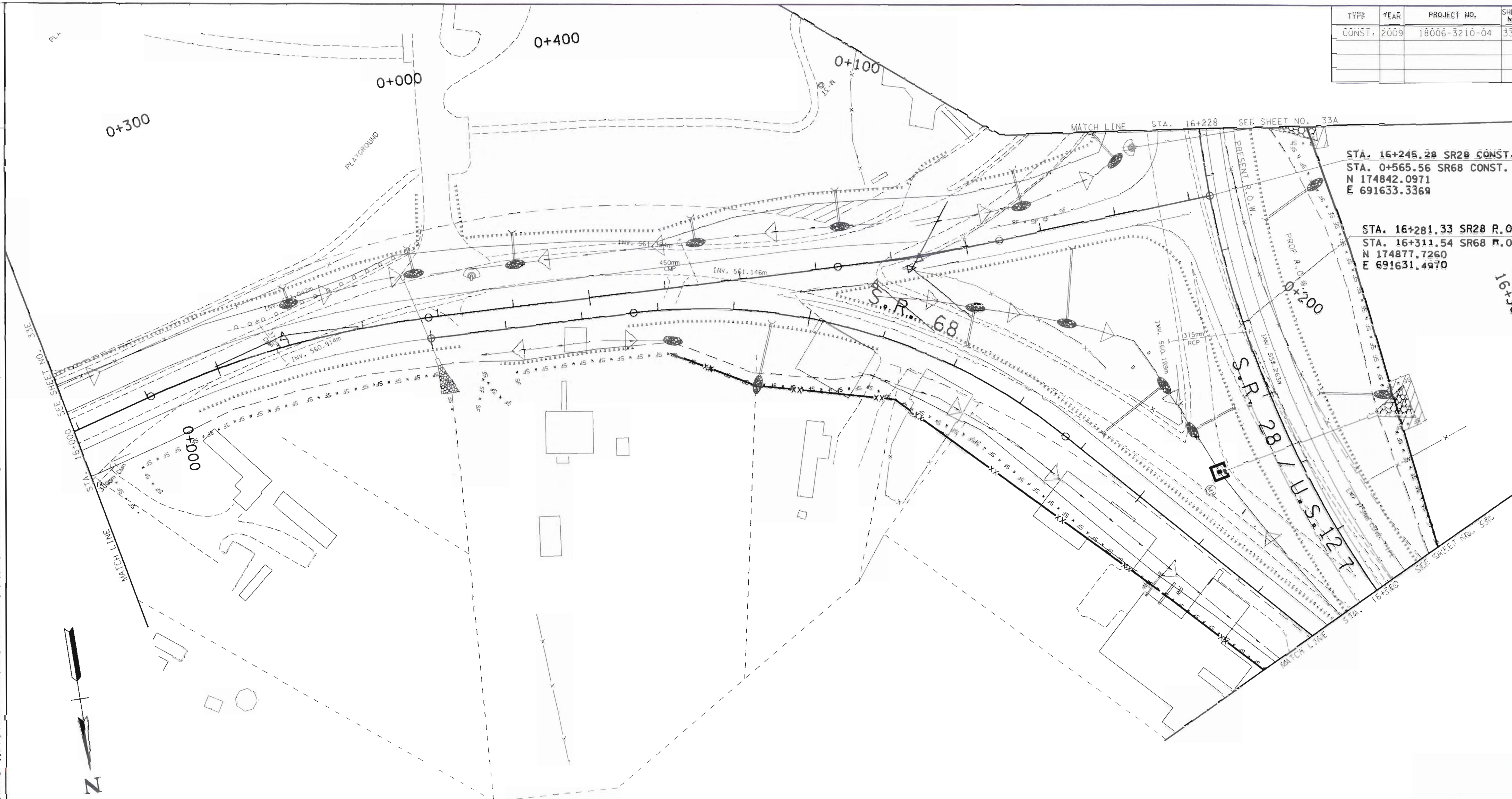
STA. 15+860 TO STA. 16+220

SCALE: 1:500

24-FEB-2010 15:58
\\JJ02WF0\chat.tenn\02Shared\Design County Folders\Cumberland\SR28sawmillroad\cumb28v8\cumb28\FinalDesign\2005\Construction plansJB\Constr\ntplansheets\CM28L33A.SHT

TYPE	YEAR	PROJECT NO.	SHEET No.
CONST.	2009	18006-3210-04	33B

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



24-FEB-2010 15:58

FOR CONST. FIELD REVIEW ONLY

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PHASE 2

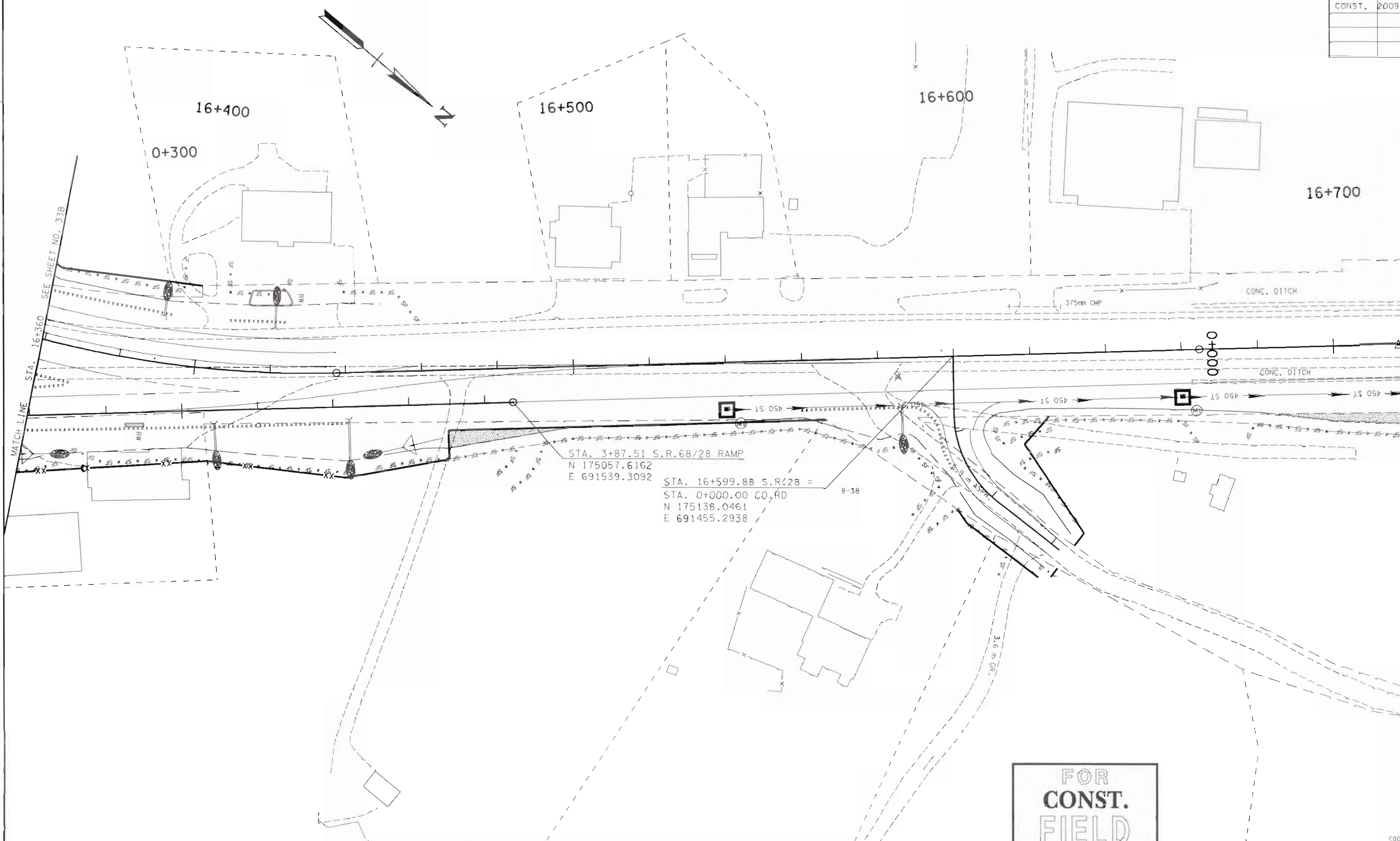
EROSION AND SEDIMENT CONTROL PLAN

STA. 16+000 TO STA. 16+360

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	33C

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.



CO. ROAD LFT STA 16+600	
PI	0+29.583
N	175,157.4395
E	691,477.6338
Δ	50° 42′ 20″ (LT)
R	30.000
L	26.549
T	14.215
SE	
DESIGN SPEED	
TRANS. LENGTH	

CONSTRUCTION CENTERLINE	
PI	16+285.406
N	174,848.9973
E	691,713.8335
Δ	78° 43′ 41″ (LT)
R	275.000
L	377.867
T	225.598
SE	
DESIGN SPEED	
TRANS. LENGTH	

CONSTRUCTION CENTERLINE	
PI	16+717.217
N	175,225.5024
E	691,377.0686
Δ	1° 02′ 57″ (RT)
R	5,730.000
L	104.917
T	52.460
SE	
DESIGN SPEED	
TRANS. LENGTH	

POND

NOTE: WATER LINES INSTALLED IN THE 1940'S NO RECORDS AVAILABLE, MANY LINES ABANDONED, COULD NOT BE LOCATED.

FOR CONST. FIELD REVIEW ONLY

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PHASE 2

EROSION AND SEDIMENT CONTROL PLAN

STA. 16+360 TO STA. 16+720

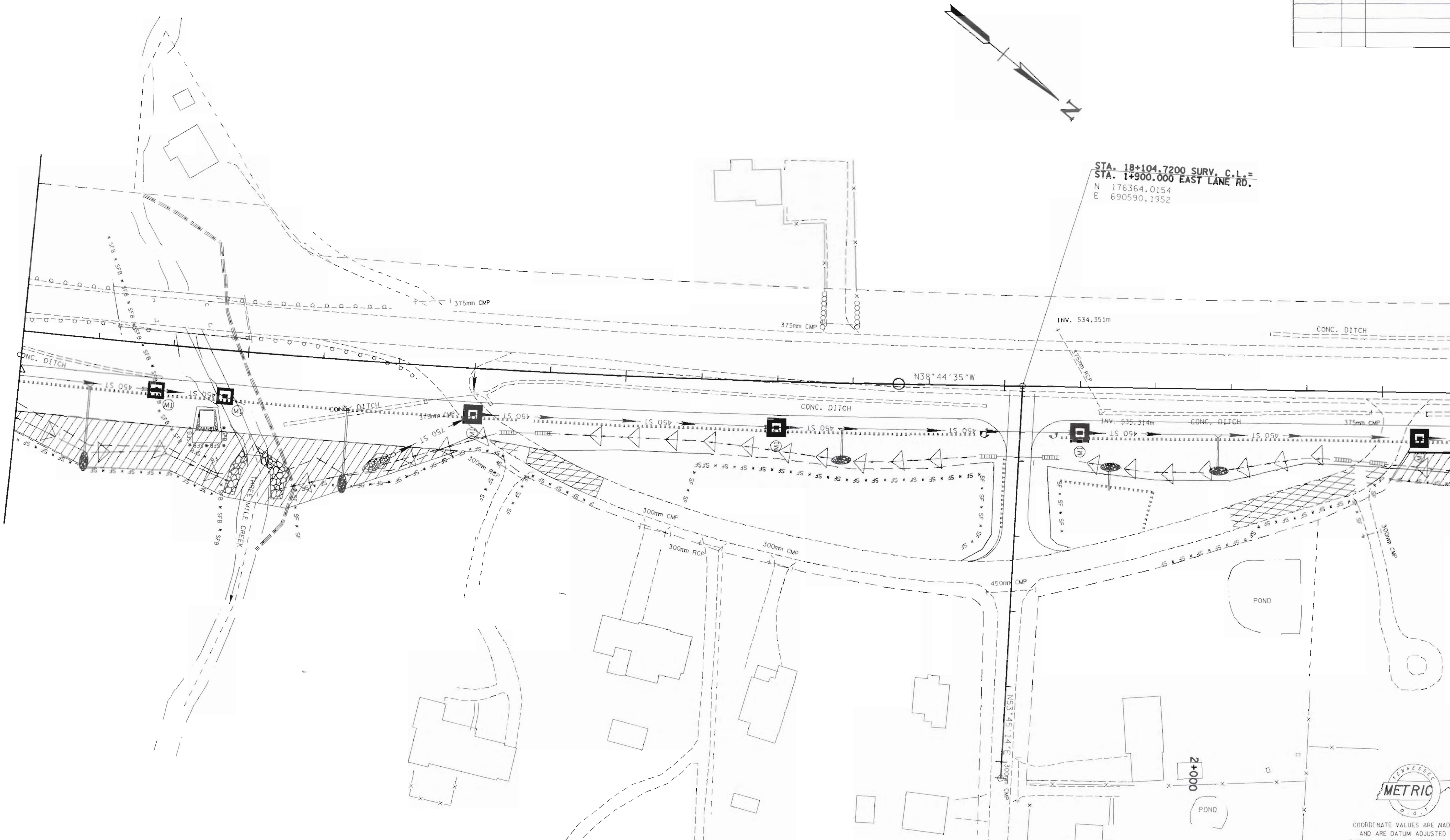
SCALE: 1:500

24-FEB-2010 15:59
\\JJ02WF01.chat.tenn\02Shared\Design County Folders\Cumberland\SR28sawmillroad\cumb28\cumb28v8\cumb28\FinalDesign\2005\Construction plans\JB\Constr\rt\planssheets\CM28L33C.SHT

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	33D



METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PHASE 2

EROSION AND SEDIMENT CONTROL PLAN

STA. 17+840 TO STA. 18+220

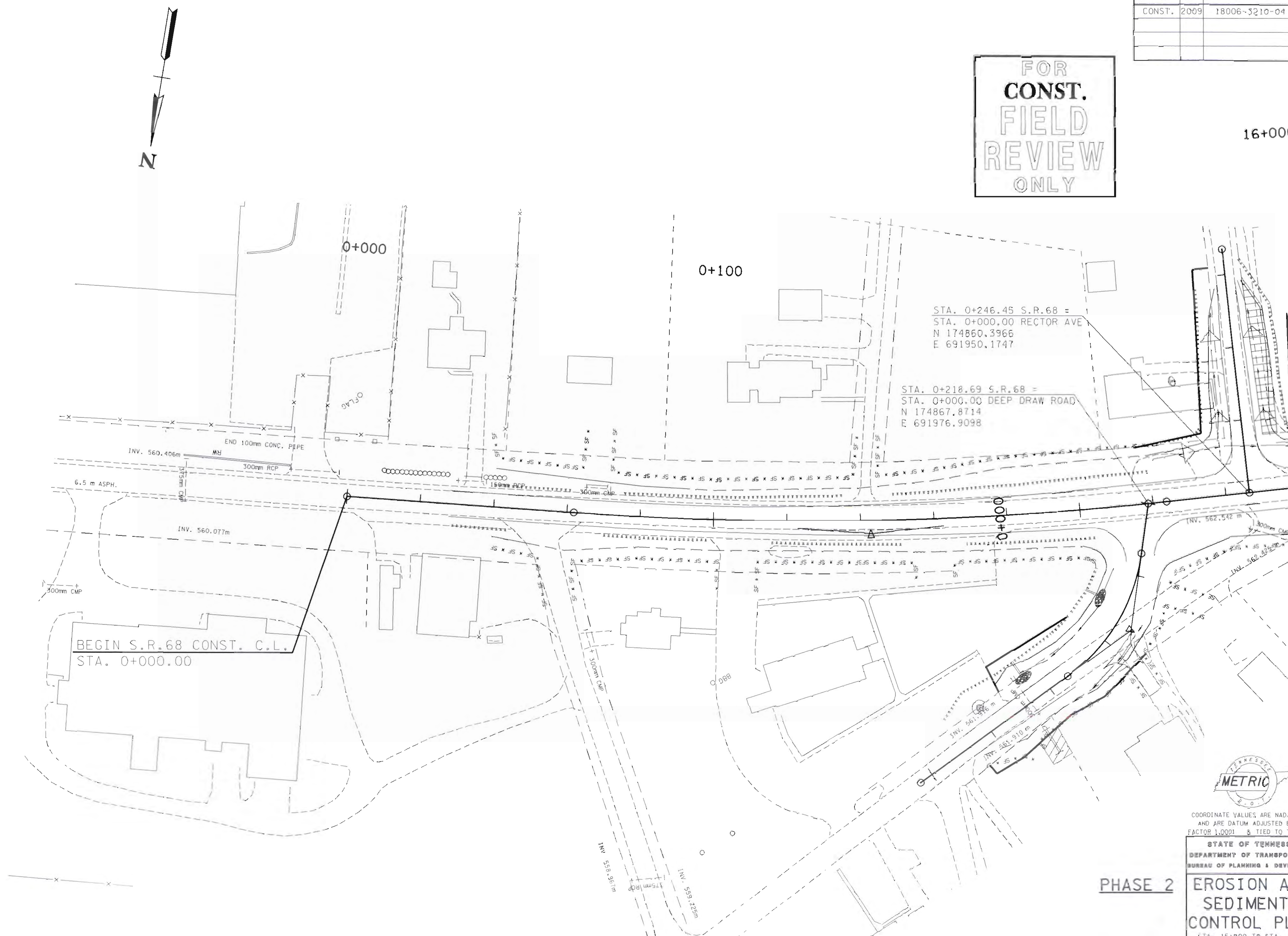
SCALE: 1:500

24-FEB-2010 15:59
\\JJ02WF01chat.tenn\02Shared\Design County Folders\Cumberland\SR28sawmillroad\cumb28v8\cumb28\FinalDesign\2005\Construction plansJB\Constr\ntplansheets\CM28L330.SHT

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	33E

FOR
CONST.
FIELD
REVIEW
ONLY



METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PHASE 2

EROSION AND SEDIMENT CONTROL PLAN

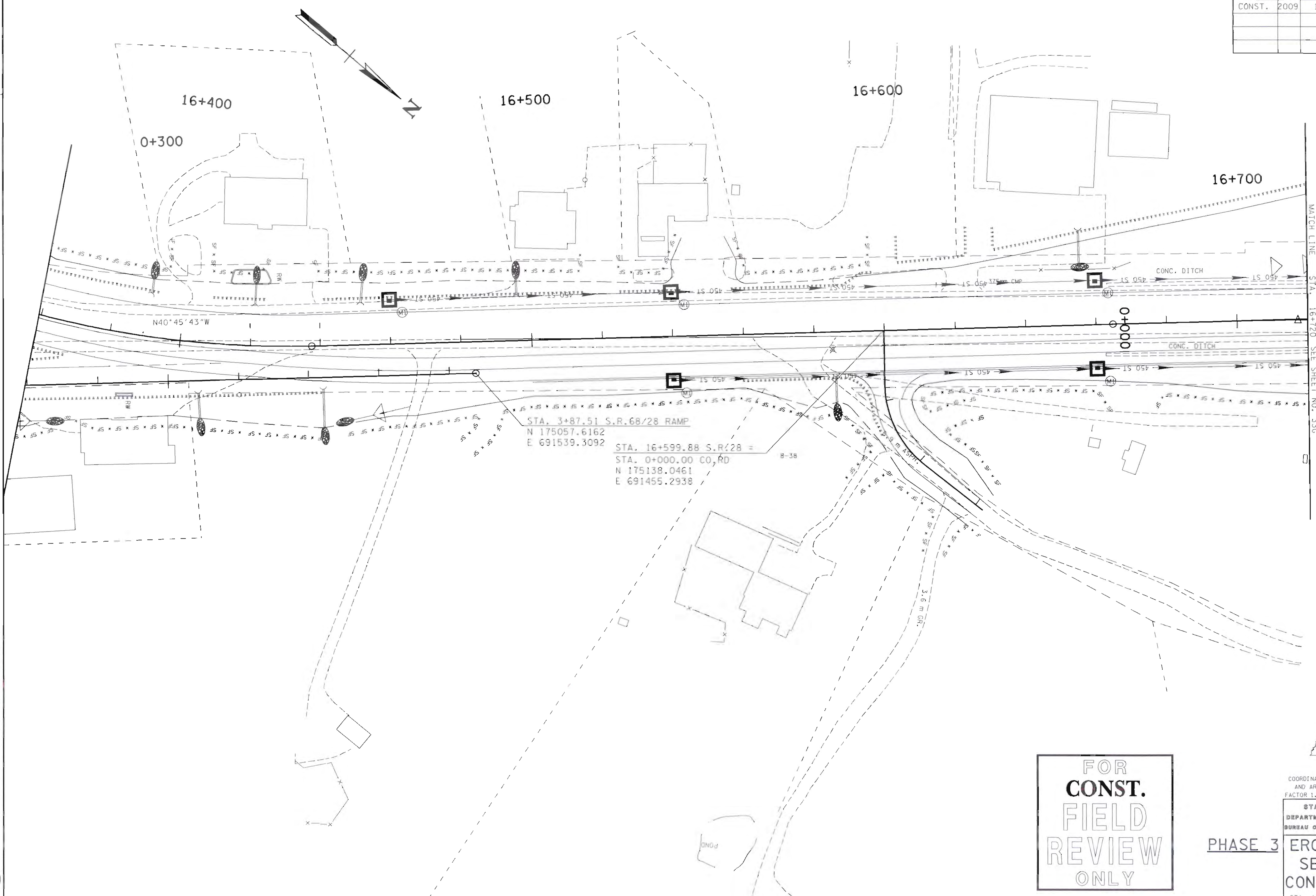
STA. 15+900 TO STA. 16+000

SCALE: 1:500

24-FEB-2010 15:59
\\JJ02WF@L.chot.tenn\02Shared\Design County Folders\Cumberland\SR28sawmillroad\cumb28\FinalDesign2005\Construction plansJB\Constprintplansheets\CM28L33E.SHT

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	33F



FOR
CONST.
FIELD
REVIEW
ONLY

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PHASE 3

EROSION AND SEDIMENT CONTROL PLAN

STA. 16+360 TO STA. 16+720

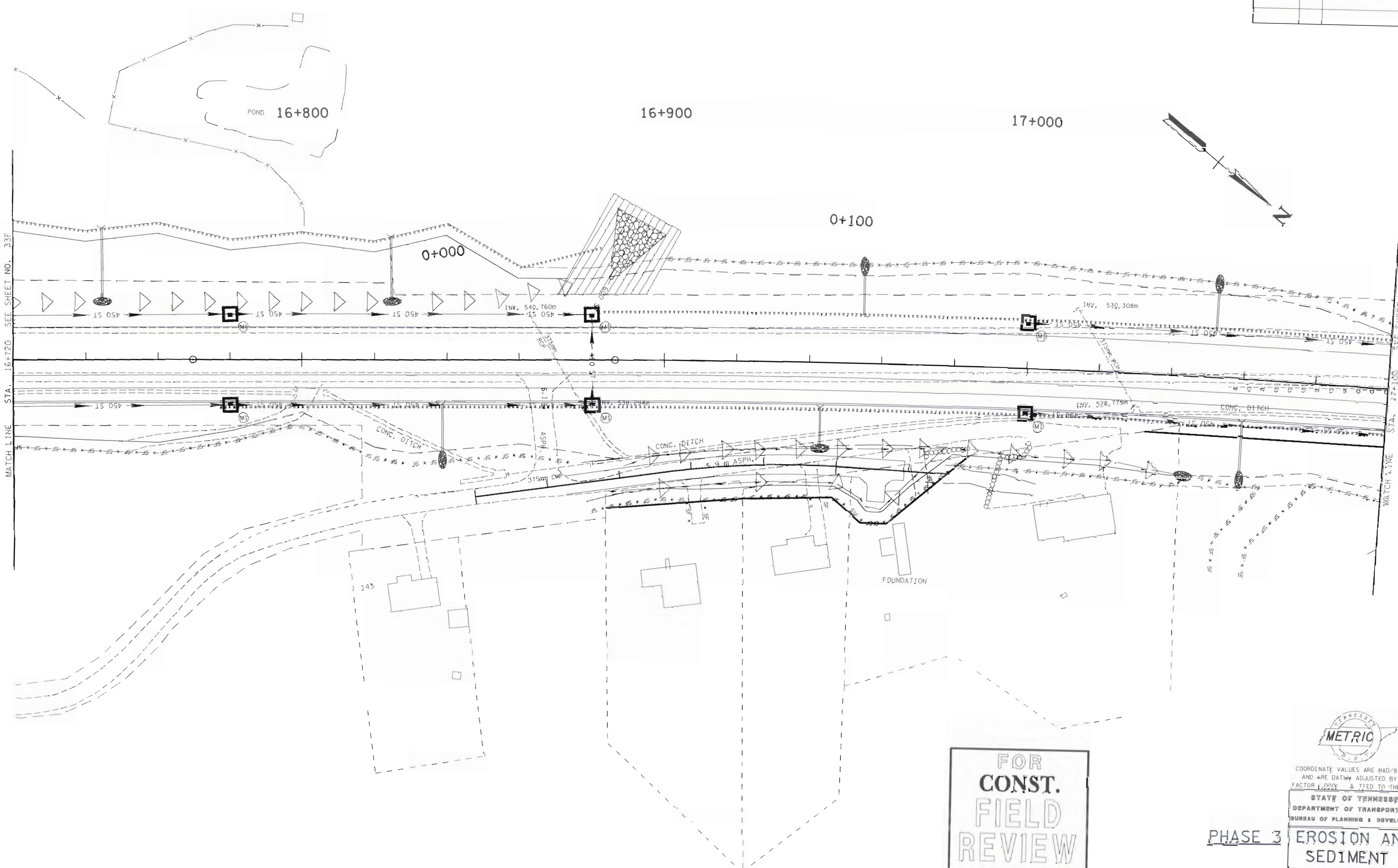
SCALE: 1:500

24-FEB-2010 15:59
\\JJ02WFO\chat.tenn\02Shared\Design County Folders\Cumberland\SR28sawmillroad\cumb28\cumb28v8\FinalDesign\2005\Construction plans\JB\Constr\plansheets\CM28L33F.SHT

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3216-04	33G



24-FEB-2010 15:59

FOR CONST. FIELD REVIEW ONLY

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PHASE 3

EROSION AND SEDIMENT CONTROL PLAN

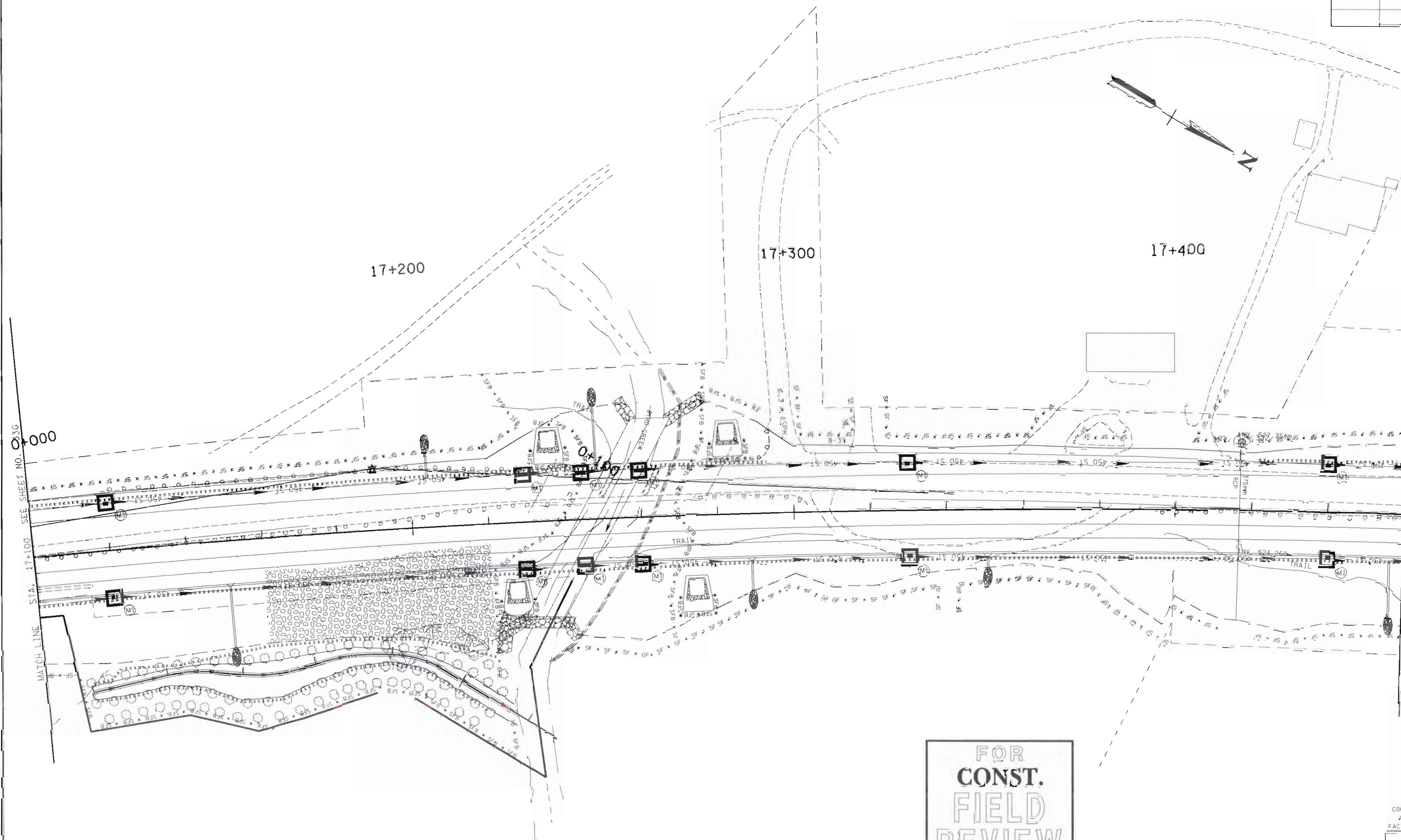
STA. 16+720 TO STA. 17+100

SCALE: 1:500

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18066-3210-04	33H



FOR
CONST.
FIELD
REVIEW
ONLY

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PHASE 3

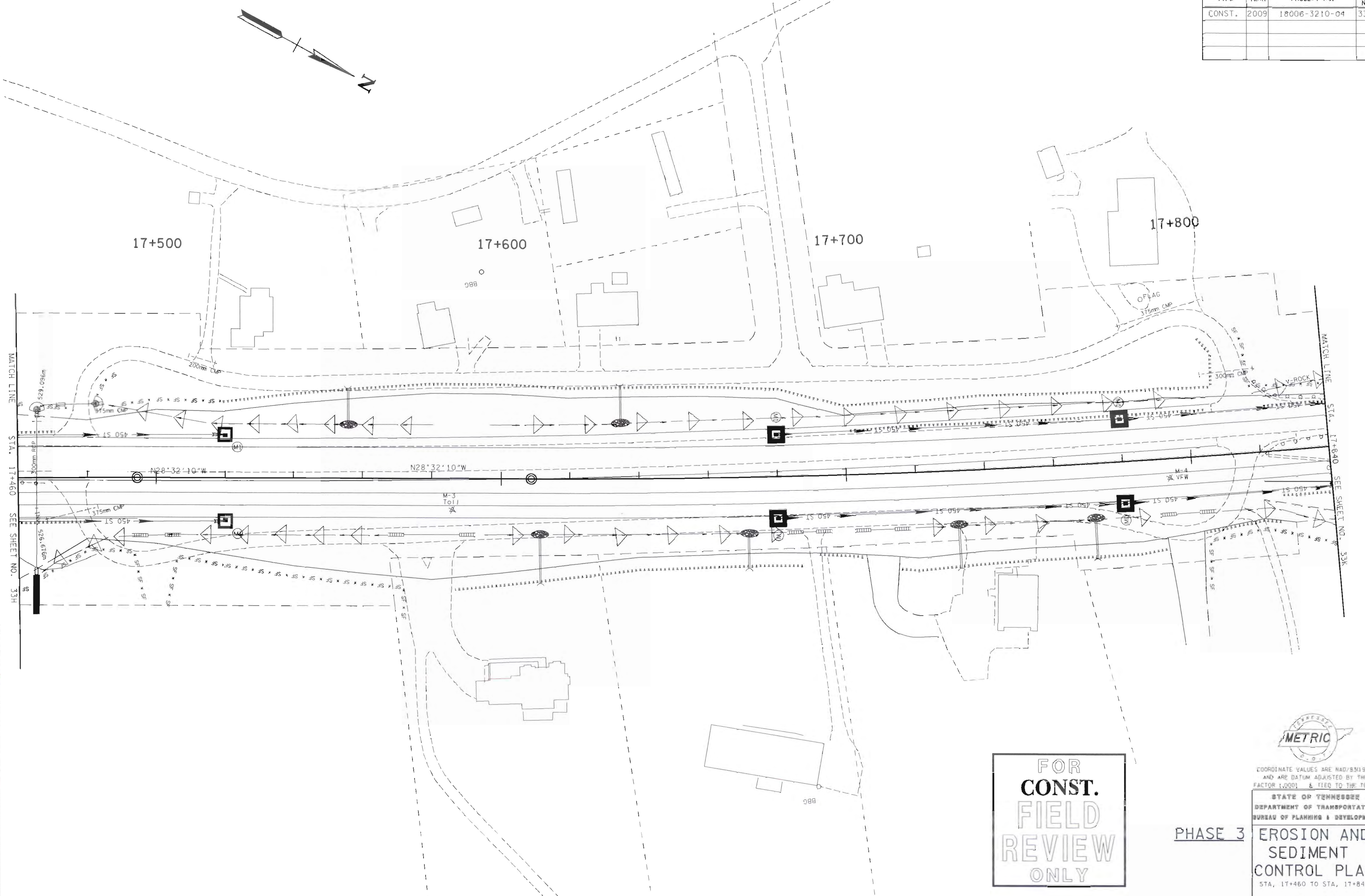
EROSION AND SEDIMENT CONTROL PLAN

STA. 17+100 TO STA. 17+460

SCALE: 1:500

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	33J



FOR CONST. FIELD REVIEW ONLY

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PHASE 3

EROSION AND SEDIMENT CONTROL PLAN
STA. 17+460 TO STA. 17+840

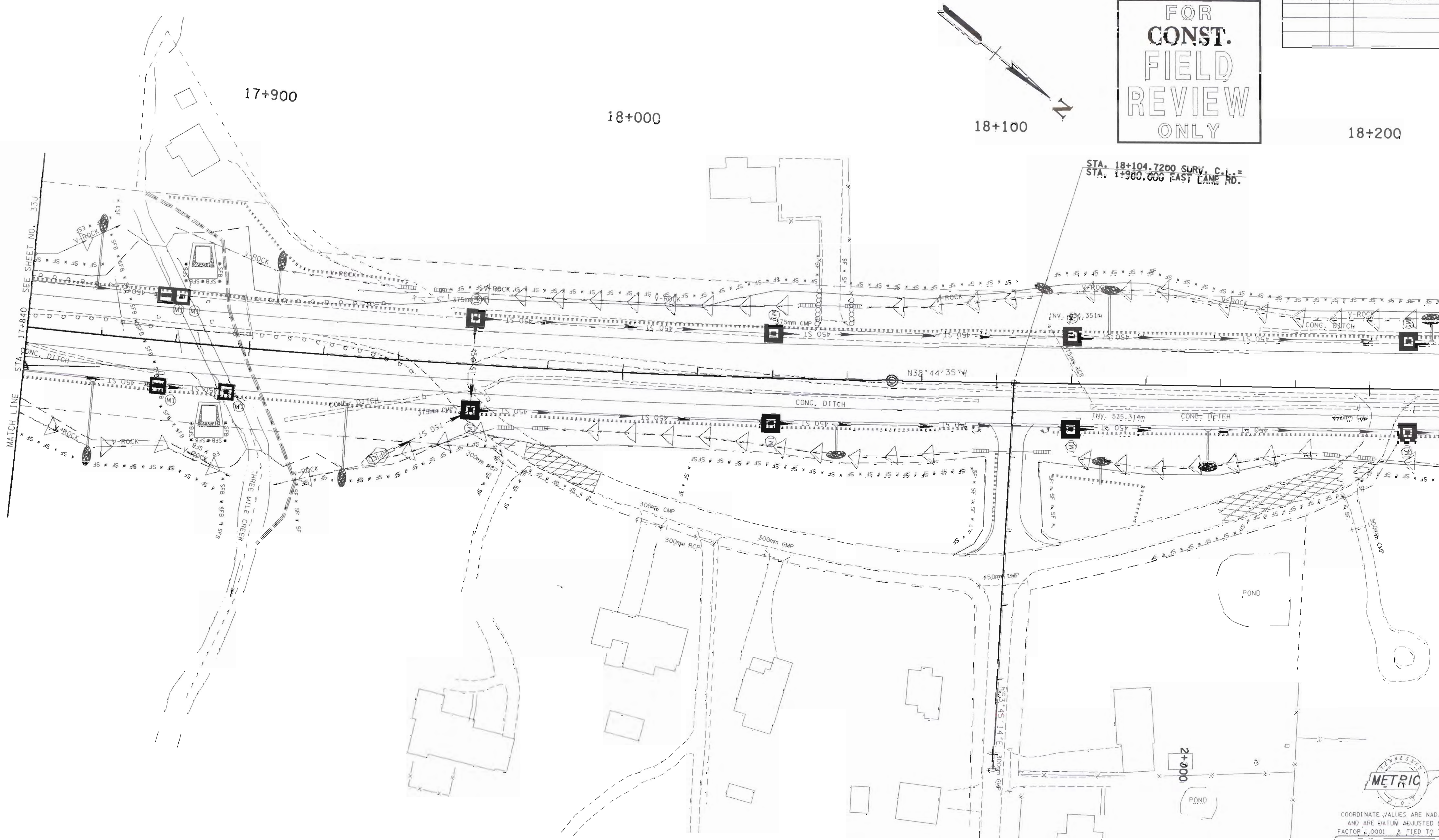
SCALE: 1:500

24-FEB-2010 16:00

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2005	18006-3210-04	33K

FOR CONST. FIELD REVIEW ONLY



METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

24-FEB-2010 16:00

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PHASE 3

EROSION AND SEDIMENT CONTROL PLAN

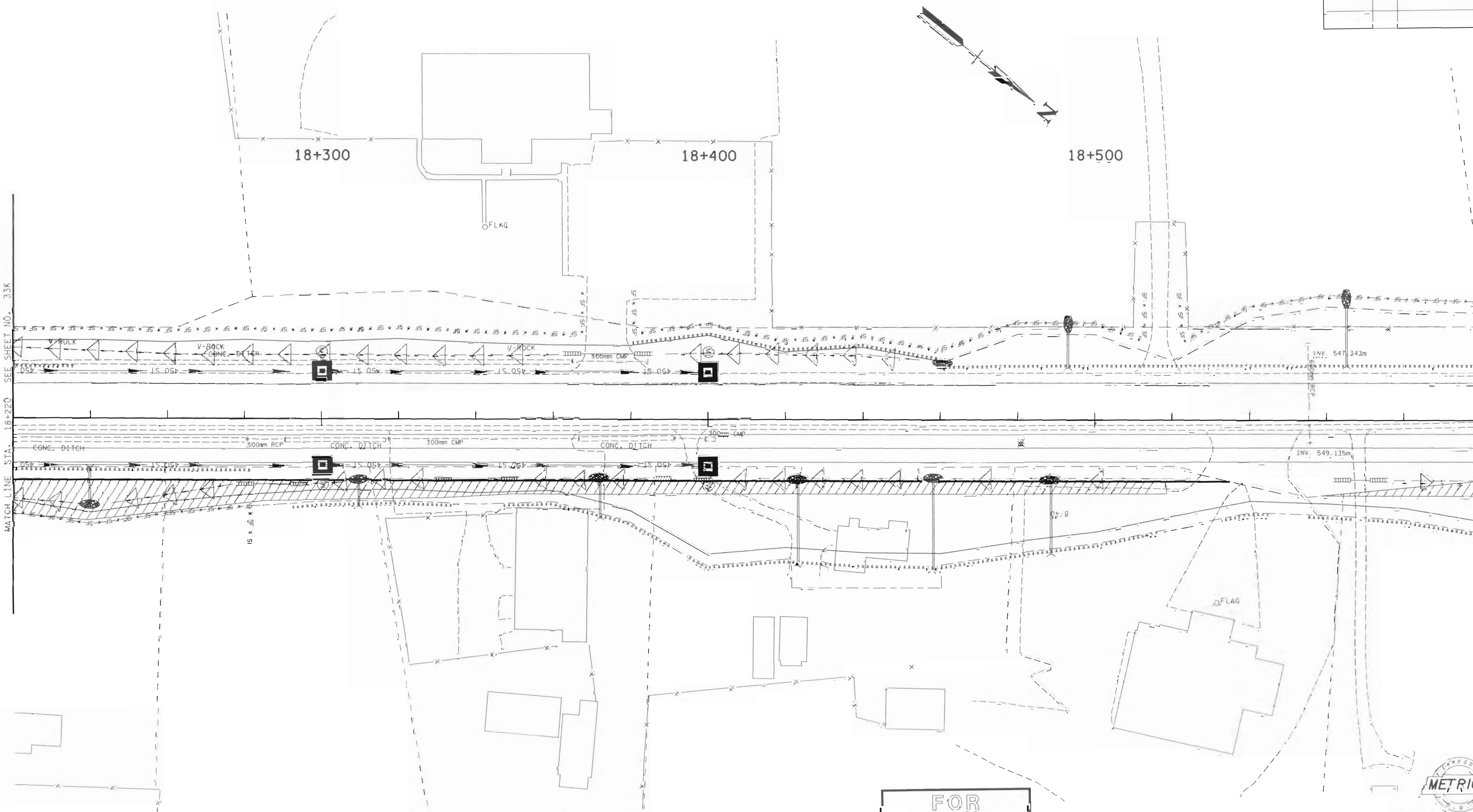
STA. 17+840 TO STA. 18+220

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-64	33L

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.



FOR CONST. FIELD REVIEW ONLY

PHASE 3

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION AND SEDIMENT CONTROL PLAN

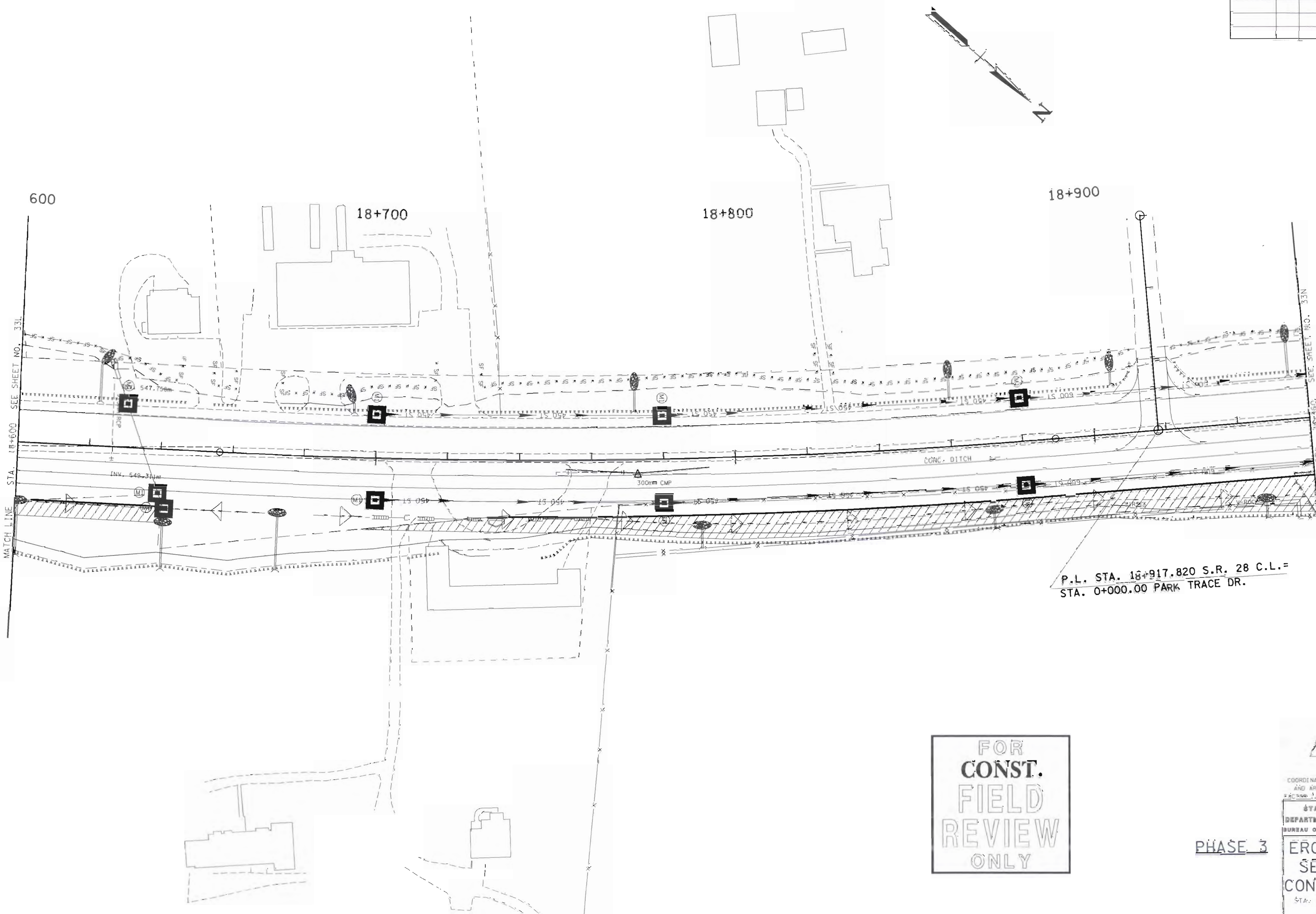
STA. 18+220 TO STA. 18+600

SCALE: 1:500

24-FEB-2010 16:00

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	33M



FOR
CONST.
FIELD
REVIEW
ONLY

PHASE 3

METRIC

COORDINATE VALUES ARE NAD/83(1994) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

EROSION AND SEDIMENT CONTROL PLAN

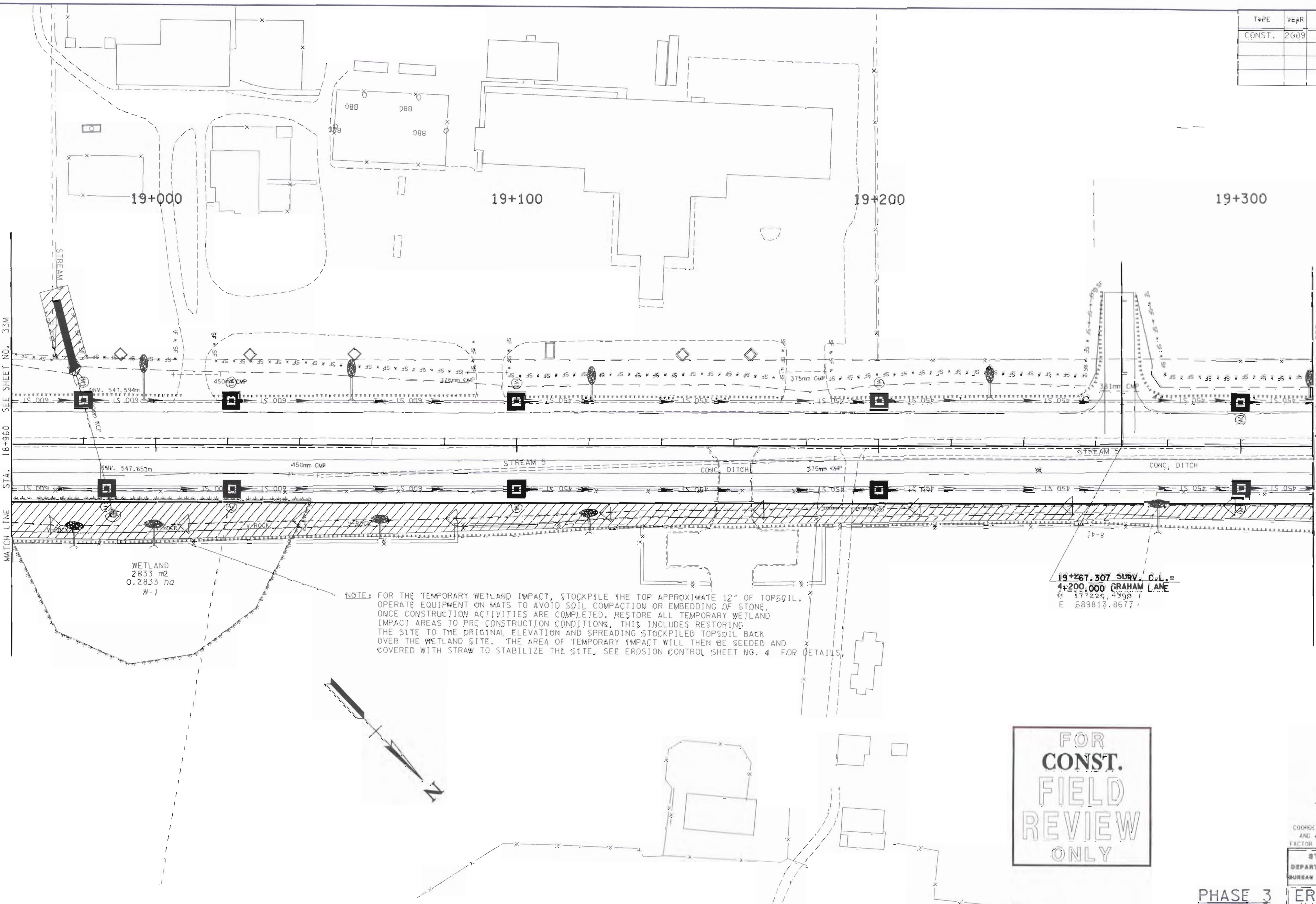
STA. 18+600 TO STA. 18+960

SCALE: 1:500

24-FEB-2010 15:01
\\JJ02\FOL...\Cumberland\SR28saxmillroad\cumb28\FinalDesign\2005\Construction plansJB\constprintplansheets\CM28L33M.SHT

Survey & Design Division

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	33N



NOTE: FOR THE TEMPORARY WETLAND IMPACT, STOCKPILE THE TOP APPROXIMATE 12" OF TOPSOIL. OPERATE EQUIPMENT ON MATS TO AVOID SOIL COMPACTION OR EMBEDDING OF STONE. ONCE CONSTRUCTION ACTIVITIES ARE COMPLETED, RESTORE ALL TEMPORARY WETLAND IMPACT AREAS TO PRE-CONSTRUCTION CONDITIONS. THIS INCLUDES RESTORING THE SITE TO THE ORIGINAL ELEVATION AND SPREADING STOCKPILED TOPSOIL BACK OVER THE WETLAND SITE. THE AREA OF TEMPORARY IMPACT WILL THEN BE SEEDED AND COVERED WITH STRAW TO STABILIZE THE SITE. SEE EROSION CONTROL SHEET NO. 4 FOR DETAILS.

FOR CONST. FIELD REVIEW ONLY

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PHASE 3

EROSION AND SEDIMENT CONTROL PLAN

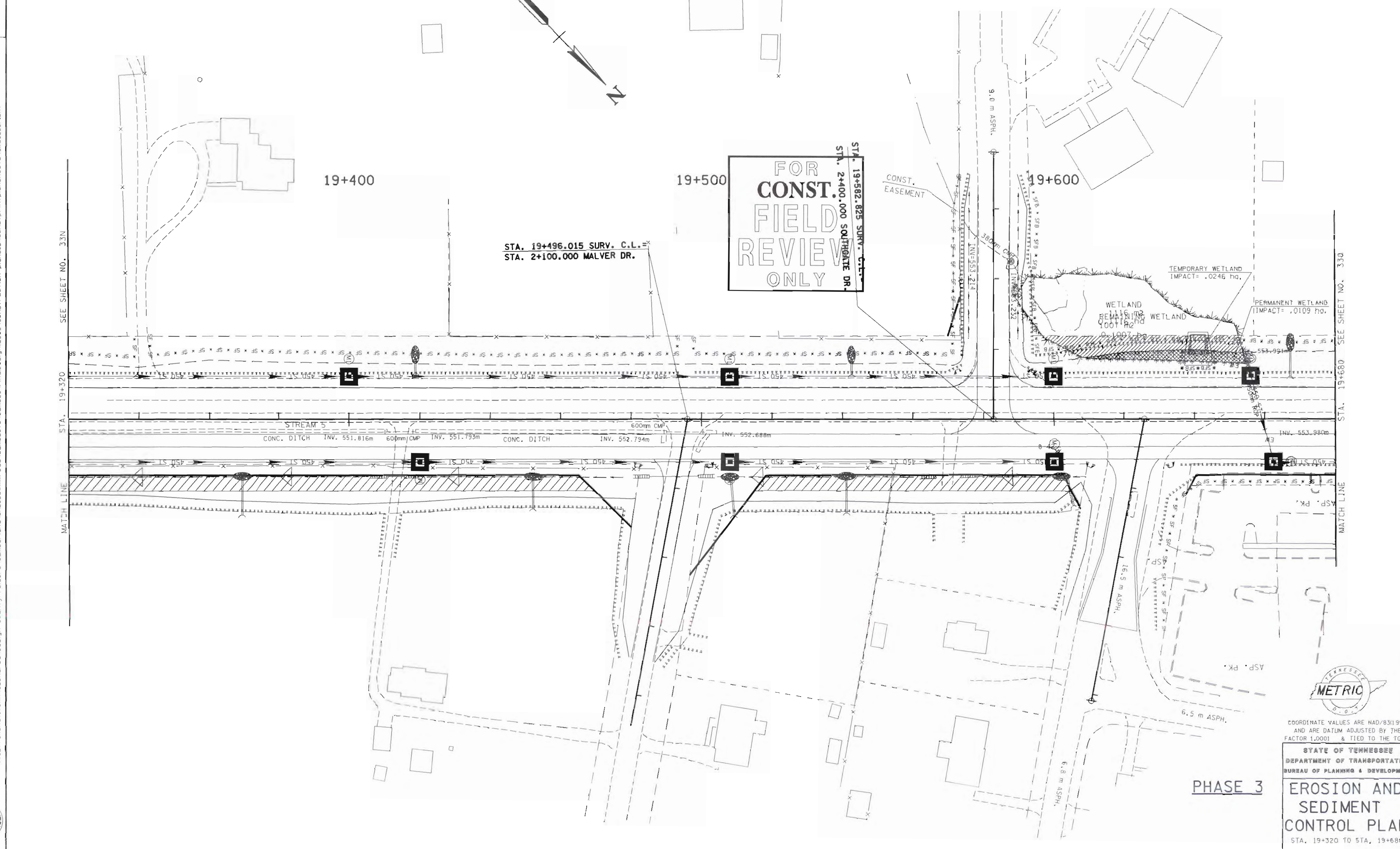
STA. 18+960 TO STA. 19+320

SCALE: 1:500

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	33P



24-FEB-2010 16:01

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

PHASE 3

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

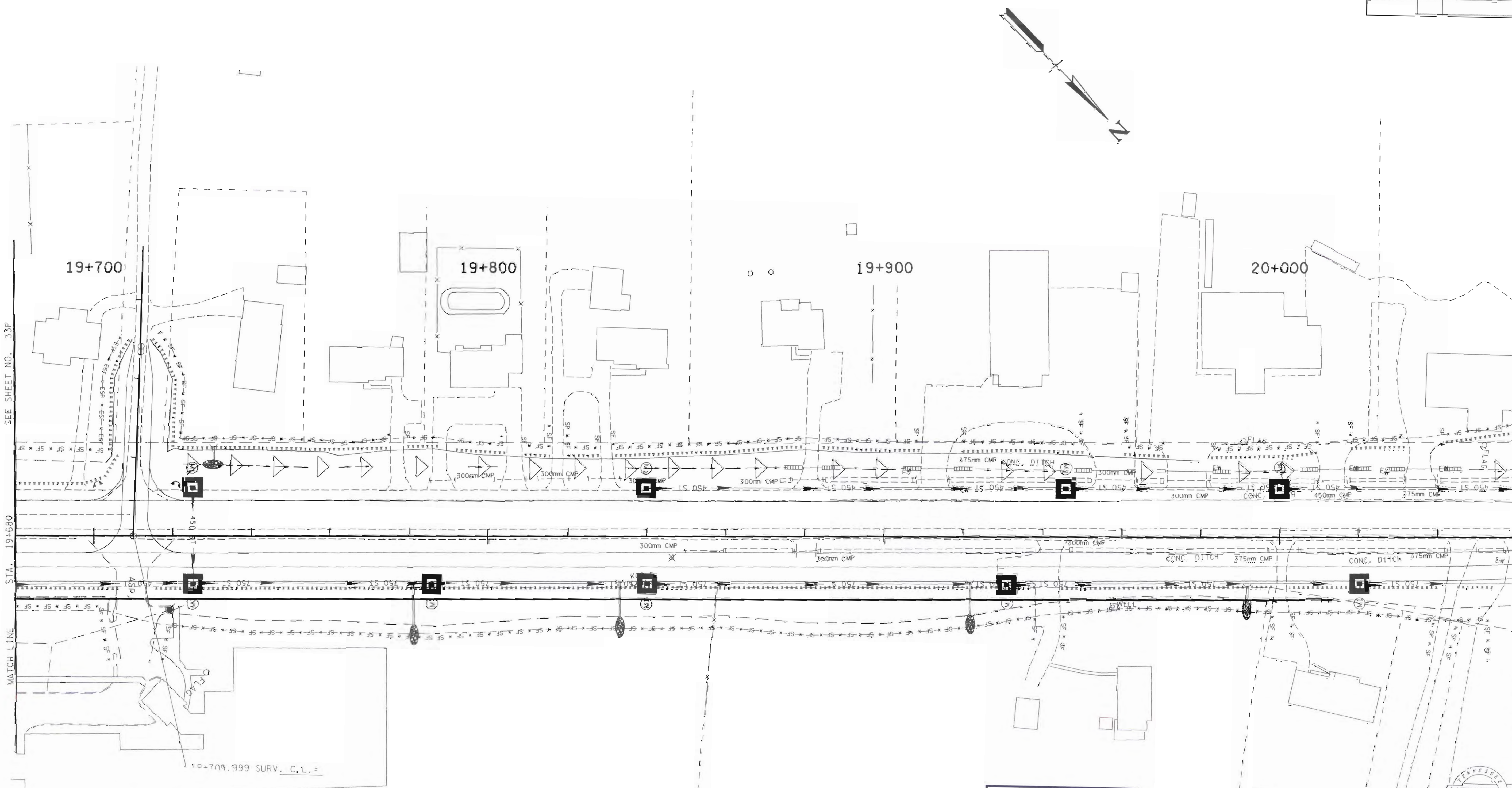
EROSION AND SEDIMENT CONTROL PLAN

STA. 19+320 TO STA. 19+680

SCALE: 1:500

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	33R



FOR CONST. FIELD REVIEW ONLY

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PHASE 3

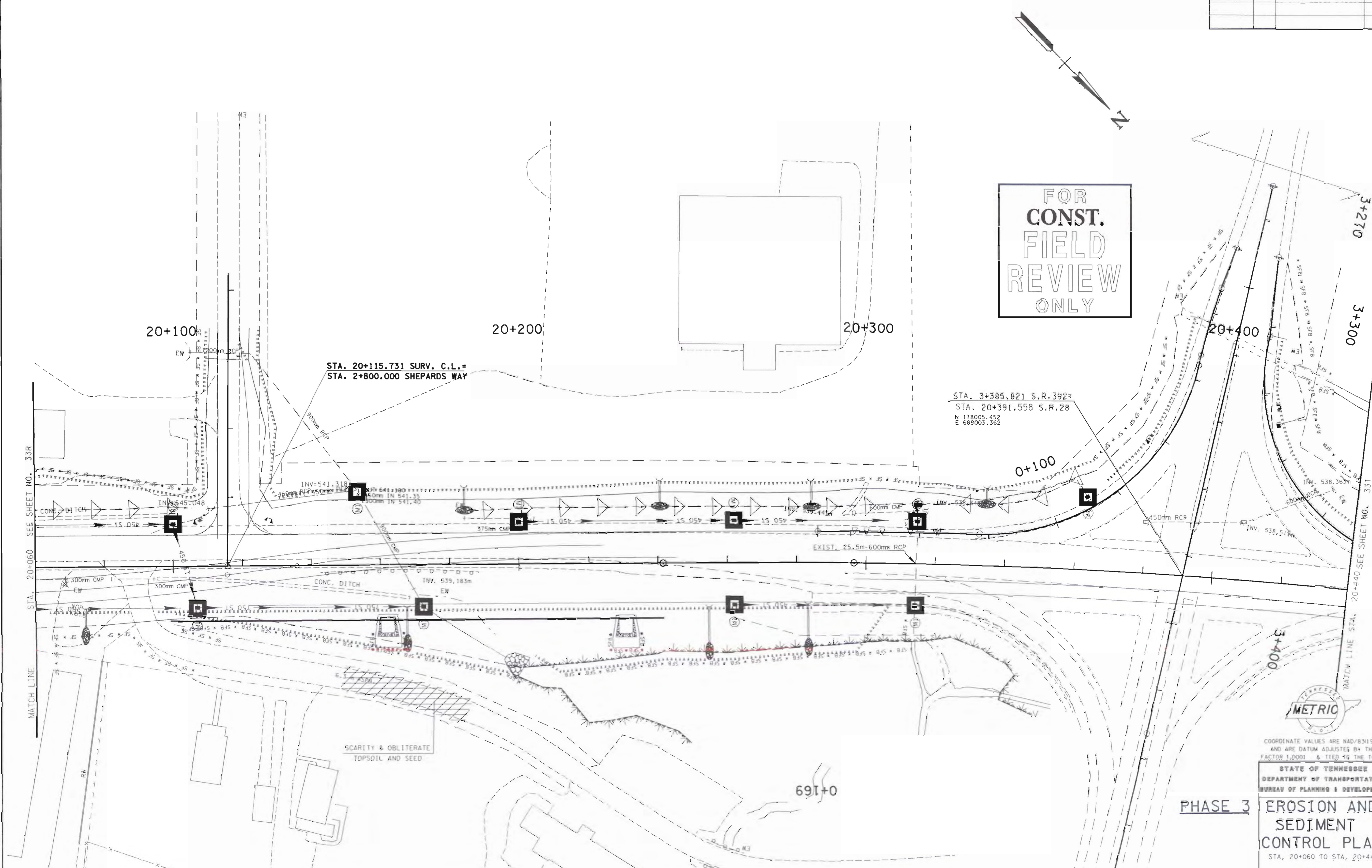
EROSION AND SEDIMENT CONTROL PLAN

STA. 19+680 TO STA. 20+060

SCALE: 1:500

24-FEB-2010 (61)

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	33S



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PHASE 3

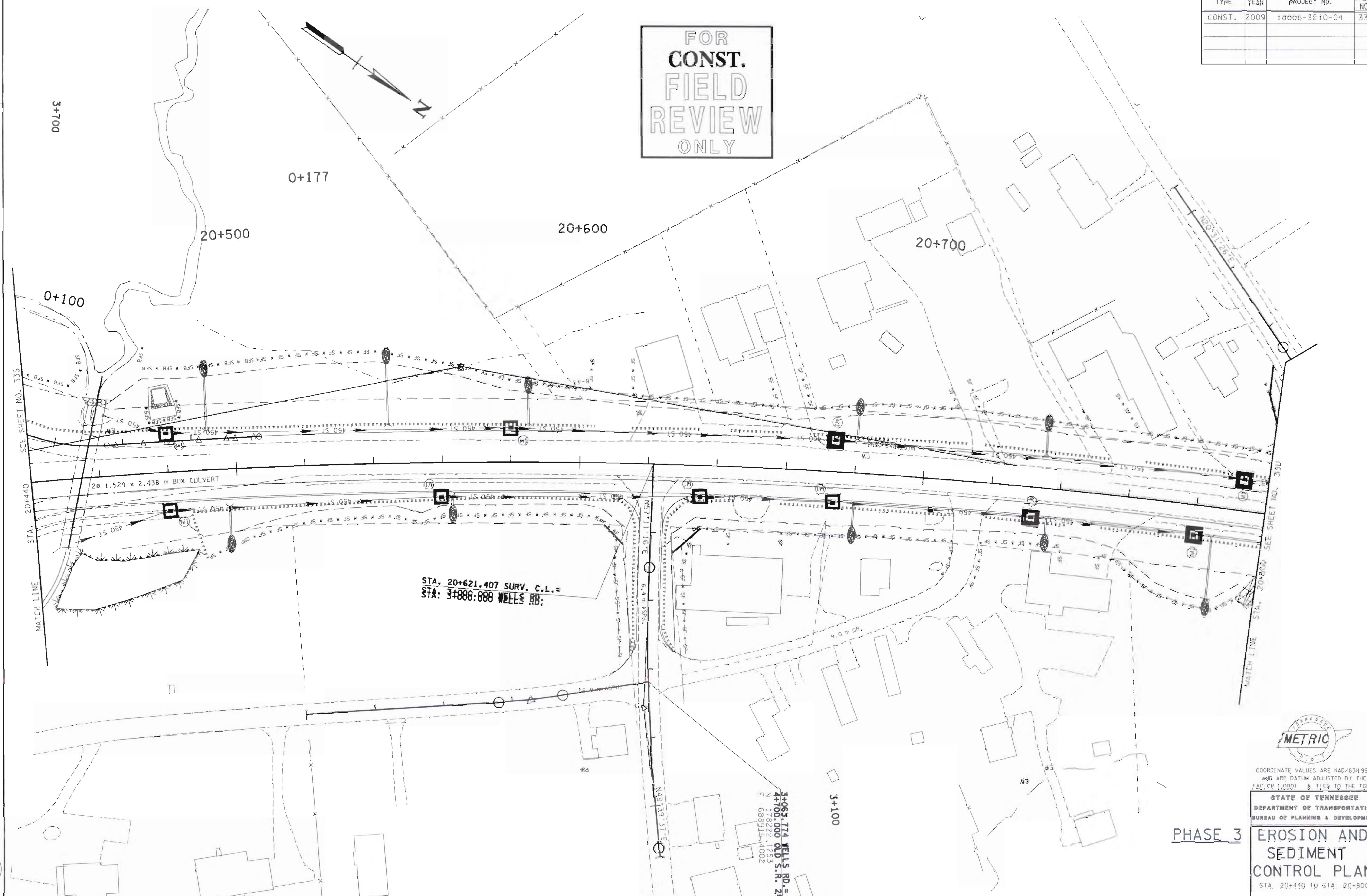
EROSION AND SEDIMENT CONTROL PLAN

STA. 20+060 TO STA. 20+440

SCALE: 1:500

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	33T

FOR CONST. FIELD REVIEW ONLY



PHASE 3

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

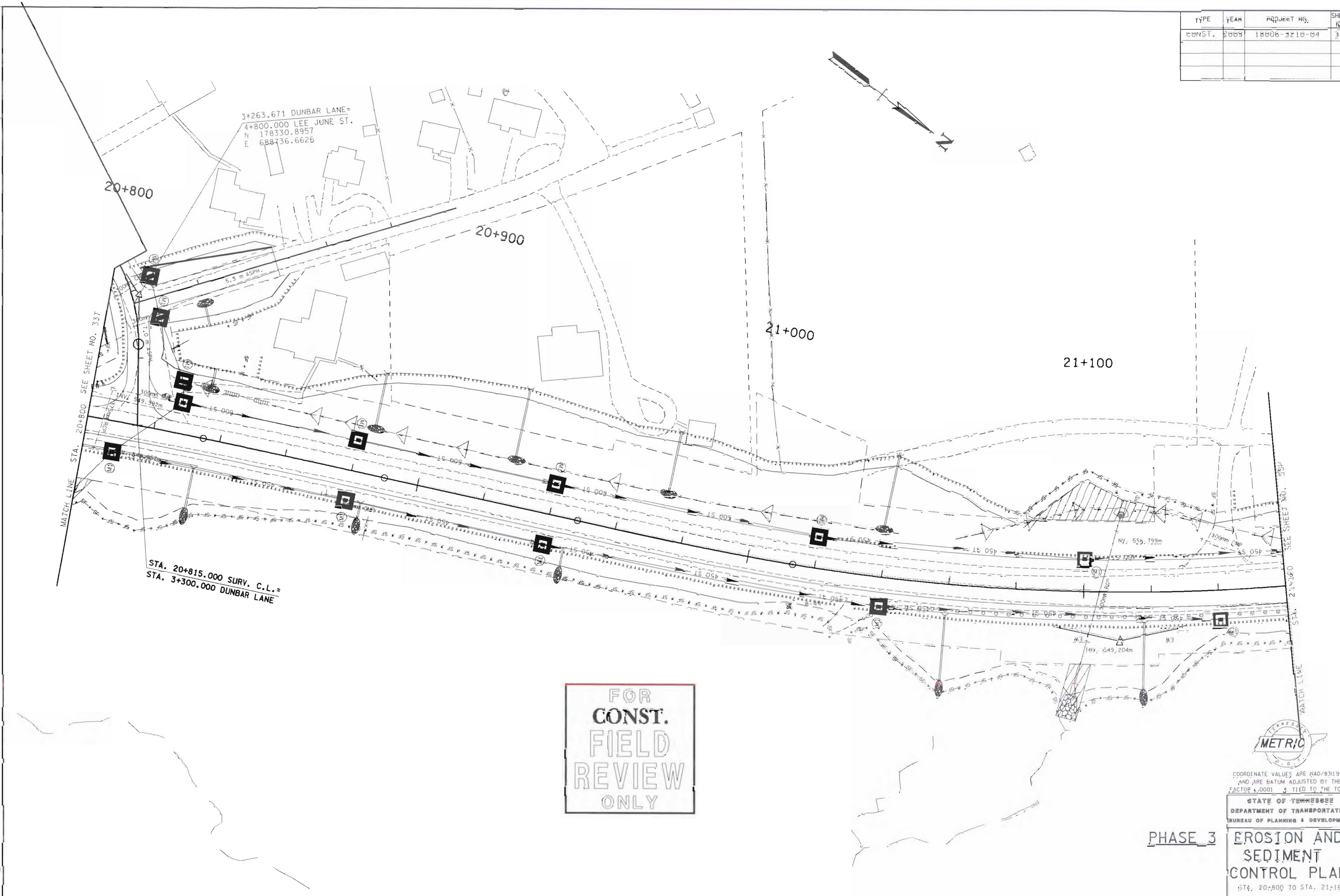
EROSION AND SEDIMENT CONTROL PLAN

STA. 20+440 TO STA. 20+800

SCALE: 1:500

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	33U



FOR
CONST.
FIELD
REVIEW
ONLY

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PHASE 3

EROSION AND SEDIMENT CONTROL PLAN

STA. 20+800 TO STA. 21+160

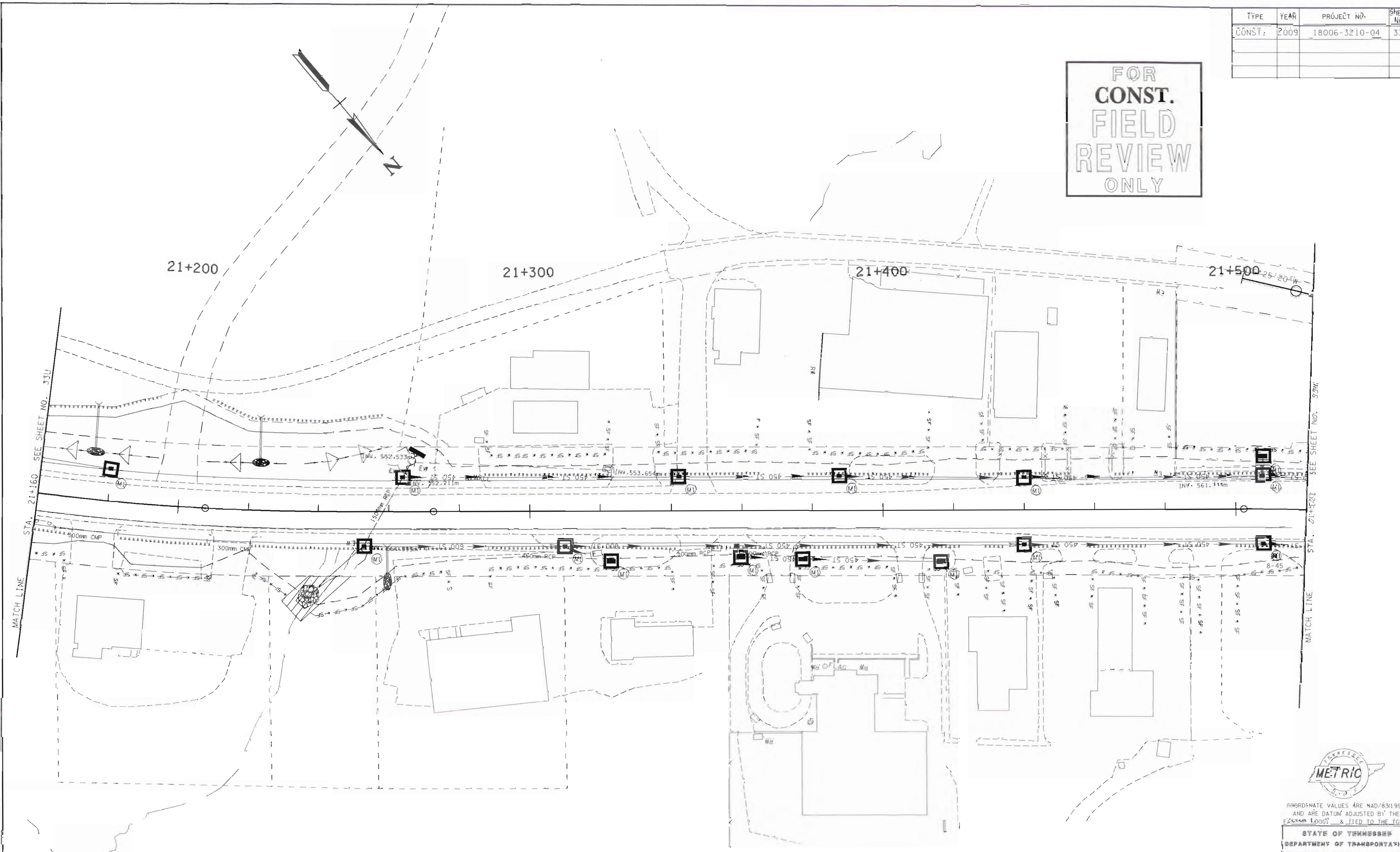
SCALE: 1:500

24-FEB-2010 16:02
\\JJ02WF06\hat.tenn\02Shared\Design County Folders\Cumberland\SR28sawmillroad\cumb28\cumb28\FinalDesign\2005\Construction plansJB\Constprintplansheets\CM28L33U.SHT

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	33V

FOR CONST. FIELD REVIEW ONLY



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PHASE 3

EROSION AND SEDIMENT CONTROL PLAN

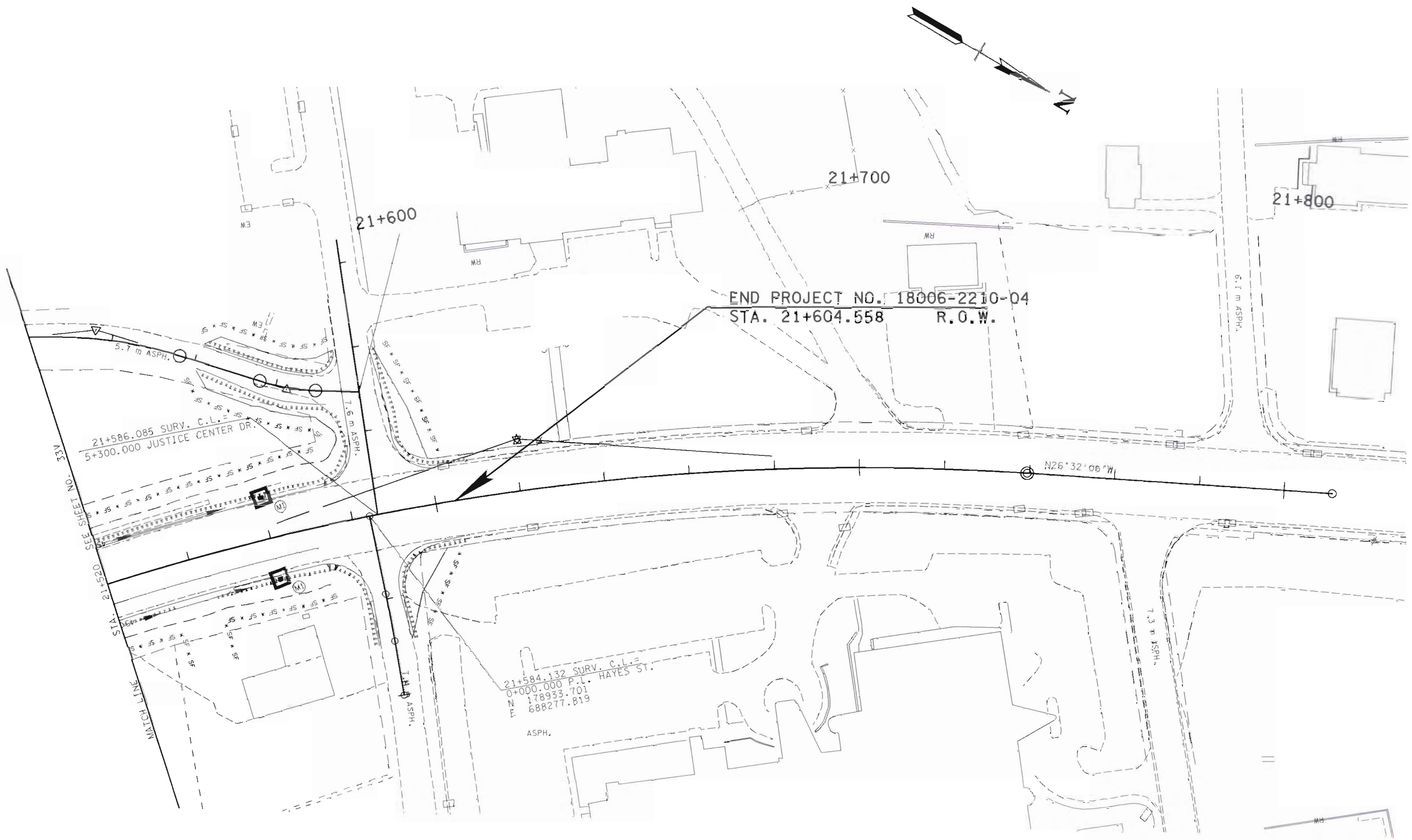
STA. 21+160 TO STA. 21+520

SCALE: 1:500

24-FEB-2010 16:02

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	33W



24-FEB-2010 16:02
\\JJ02WFO\chat.tenn\02Shared\Design County Folders\Cumberland\SR28sawmillroad\cumb28v8\cumb28\FinalDesign\2005\Construction plansJB\Constprintplansheets\CM28L33W.SHT

FOR CONST. FIELD REVIEW ONLY

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

PHASE 3

EROSION AND SEDIMENT CONTROL PLAN

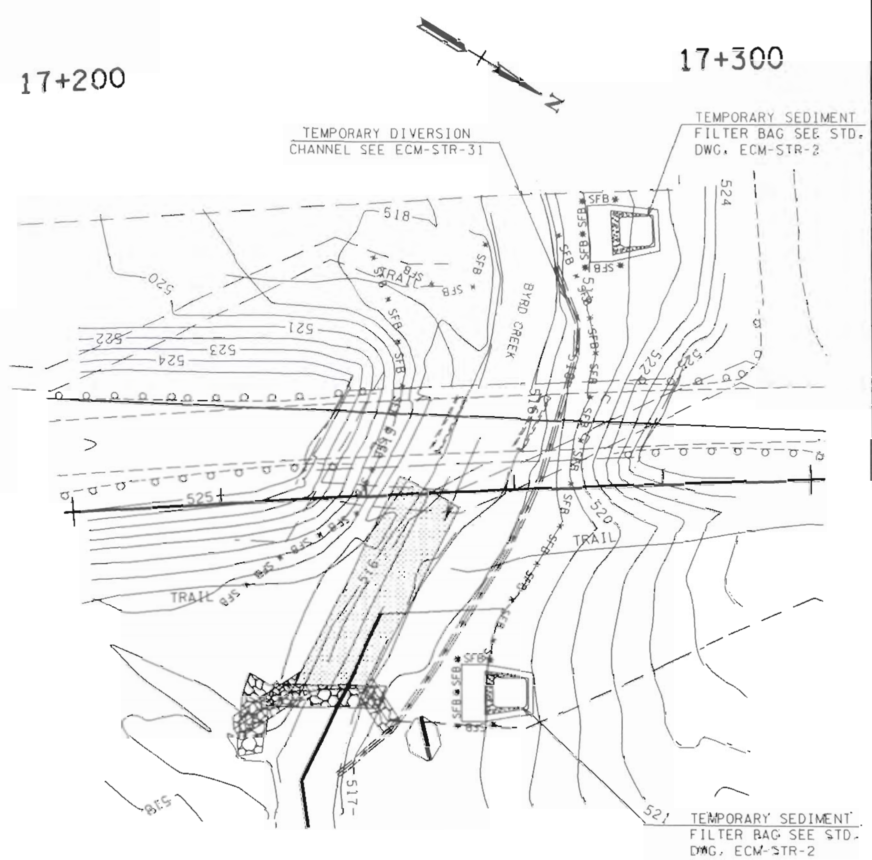
STA. 21+520 TO STA. 21+810

SCALE: 1:500

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-94	33X

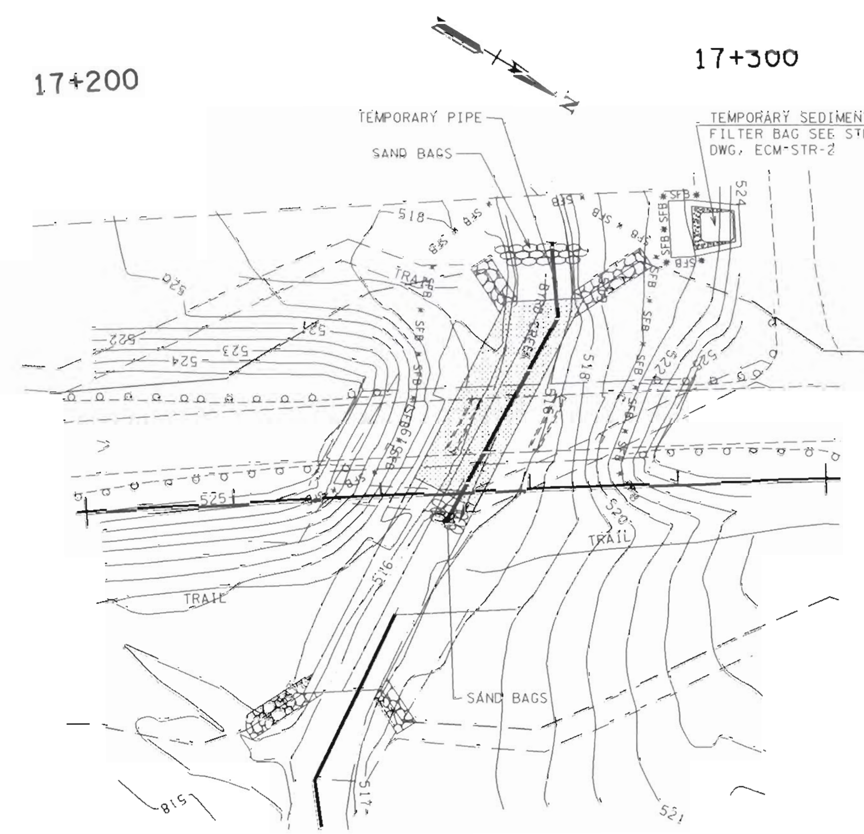
STATION 17+248.51



STAGE 1 (DURING PHASE 1 TRAFFIC)

PLACE EROSION CONTROL DEVICES. CONSTRUCT PROPOSED 2@4.88m X 4.57m AND BUILD PROPOSED ROADWAY.

STATION 17+248.51



STAGE 2 (DURING PHASE 3 TRAFFIC)

PLACE EROSION CONTROL DEVICES, REMOVE EXISTING STRUCTURE, CONSTRUCT PROPOSED 2@4.88m X 4.57m AND BUILD PROPOSED ROADWAY.

LEGEND	
(shaded)	BUILD

FOR CONST. FIELD REVIEW ONLY

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

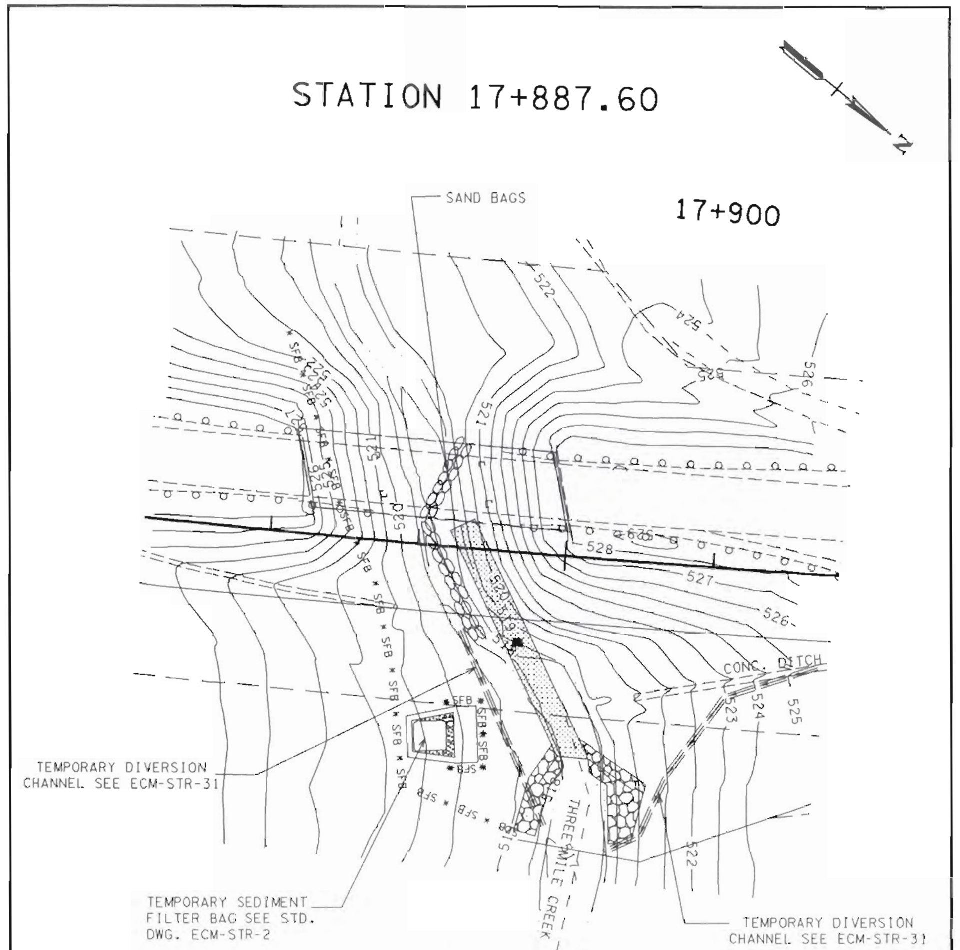
CULVERT PHASING
STA. 17+248.51

SCALE: 1:500

24-FEB-2010 16:02

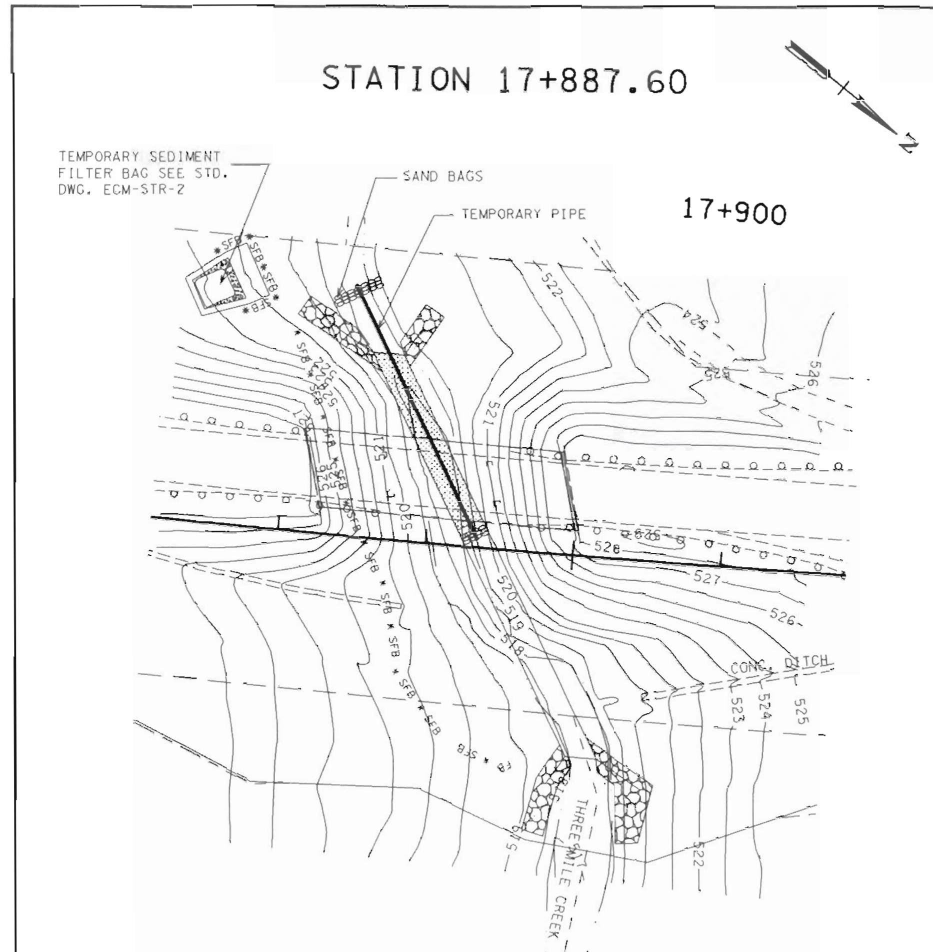
TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	33Y



STAGE 1 (DURING PHASE 1 TRAFFIC)

PLACE EROSION CONTROL DEVICES.
CONSTRUCT PROPOSED 3.66m X 3.66m AND BUILD PROPOSED ROADWAY.



STAGE 2 (DURING PHASE 3 TRAFFIC)

PLACE EROSION CONTROL DEVICES. REMOVE EXISTING STRUCTURE.
CONSTRUCT PROPOSED 2@4.88m X 4.57m AND BUILD PROPOSED ROADWAY.

LEGEND

BUILD

FOR
CONST.
FIELD
REVIEW
ONLY

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0001 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

CULVERT PHASING
STA. 17+887.6

SCALE: 1:500

24-FEB-2010 16:02
\\JJ02WFQ\chat.tenn\02Shared\Design County Folders\Cumberland\SR28sawmillroad\cumb28v8\cumb28\FinalDesign\2005\Construction plansJB\Constrprintplansheets\CM28L33Y.SHT

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	34

PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

(1) DIFFERENCE IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES OR TRAFFIC LANE AND SHOULDER WHERE THE TRAFFIC LANE IS BEING USED BY TRAFFIC, CAUSED BY BASE, PAVING OR RESURFACING:

(2) DIFFERENCE IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 20 mm AND NOT EXCEEDING 50 mm:

A. WARNING SIGNS, UNEVEN PAVEMENT (W8-11)AND/OR SHOULDER DROP-OFF (W8-9A), SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 600 METERS WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

B. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY ADDED PAVEMENT SHALL BE ELIMINATED WITHIN THREE WORKDAYS.

C. DIFFERENCES IN ELEVATION BETWEEN ADJACENT TRAFFIC LANES BEING UTILIZED BY TRAFFIC CAUSED BY COLD PLANING SHALL BE ELIMINATED WITHIN THREE WORKDAYS.

D. WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE TRAFFIC LANE BEING UTILIZED BY TRAFFIC AND SHOULDER THE DIFFERENCE IN ELEVATION SHALL BE ELIMINATED WITHIN 7 WORKDAYS AFTER THE CONDITION IS CREATED.

(3) DIFFERENCE IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 50 mm AND NOT EXCEEDING 150 mm. TRAFFIC IS NOT TO BE ALLOWED TO TRAVERSE THIS DIFFERENCE IN ELEVATION.

A SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

1 WHERE POSTED SPEEDS ARE 80 km/h OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 30 METERS.

2. WHERE POSTED SPEEDS ARE LESS THAN 80 km/h, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN METERS SHALL NOT EXCEED TWICE THE POSTED SPEED IN MILES-PER-HOUR OR 15 METERS, WHICHEVER SPACING IS GREATER.

B. IF THE DIFFERENCE IN ELEVATION IS ELIMINATED OR DECREASED TO 50 mm OR LESS BY THE END OF EACH DAY'S WORK, CONES MAY BE USED DURING DAYLIGHT HOURS IN LIEU OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES MENTIONED IN PARAGRAPH A, PROVIDED WARNING SIGNS ARE ERECTED. WARNING SIGNS (UNEVEN PAVEMENT AND/OR LOW SHOULDER) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 600 METERS WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

C WHEN THE DIFFERENCE IN ELEVATION IS BETWEEN THE THRU TRAFFIC LANE AND THE SHOULDER AND THE ELEVATION DIFFERENCE IS LESS THAN 90 mm, THE CONTRACTOR MAY USE WARNING SIGNS AND/OR PROTECTIVE DEVICES AS APPLICABLE AND APPROVED BY THE ENGINEER. SEE PARAGRAPH A REGARDING USE OF DRUMS, BARRICADES OR OTHER APPROVED PROTECTIVE DEVICES. WARNING SIGNS (UNEVEN PAVEMENT AND/OR LOW SHOULDER) WILL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 600 METERS WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY.

IN THESE SITUATIONS, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING THREE KILOMETERS IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

(4) DIFFERENCE IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 150 mm BUT NOT EXCEEDING 450 mm, THE CONTRACTOR WITH THE ENGINEER'S APPROVAL, MAY UTILIZE ONE OF THE FOLLOWING:

A THE CONTRACTOR SHALL ACCOMPLISH SEPARATION BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

1. WHERE POSTED SPEEDS ARE 80 km/h OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 30 METERS.

2. WHERE POSTED SPEEDS ARE LESS THAN 80 km/h, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN METERS SHALL NOT EXCEED TWICE THE POSTED SPEED IN KILOMETERS PER HOUR OR 15 METERS, WHICHEVER SPACING IS GREATER.

IN ORDER TO USE THIS METHOD, THE CONTRACTOR MUST REDUCE THE DIFFERENCE IN ELEVATION TO 150 mm OR LESS BY THE END OF THE WORKDAY THAT THE CONDITION IS CREATED.

B. THE CONTRACTOR SHALL PROVIDE DRUMS, BARRICADES OR OTHER APPROVED SEPARATION DEVICES AS SPECIFIED IN PARAGRAPH A, AND CONSTRUCT A STONE WEDGE WITH A 4:1 SLOPE, OR FLATTER, TO ELIMINATE THE VERTICAL OFFSET IF THE LOWER ELEVATION IS AT OR BELOW SUBGRADE AT THE END OF EACH DAY.

C THE CONTRACTOR SHALL PROVIDE DRUMS, BARRICADES OR OTHER APPROVED SEPARATION DEVICES AS SPECIFIED IN PARAGRAPH A, AND IF THE LOWER ELEVATION IS BASE STONE OR ASPHALT PAVEMENT, PLACEMENT OF SUBSEQUENT LAYERS OF PAVEMENT MUST BEGIN THE NEXT WORKDAY AND PROGRESS CONTINUOUSLY UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED OR REDUCED TO 150 mm OR LESS.

D. THE CONTRACTOR SHALL PROVIDE SEPARATION BY PORTABLE BARRIER RAIL.

FOR PRECEDING CONDITIONS A, B, AND C, THE CONTRACTOR SHALL USE THE SHOULDER DROP-OFF WARNING SIGN (W8-9A). IT SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN THE SIGNS SHALL BE 600 METERS WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. IN THESE SITUATIONS, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 1.5 KILOMETERS IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE, A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY

(5) DIFFERENCE IN ELEVATION BETWEEN ADJACENT ROADWAY ELEMENTS GREATER THAN 450 mm.

SEPARATION WILL BE PROVIDED BY USE OF PORTABLE BARRIER RAIL.

IN THIS SITUATION, THE CONTRACTOR SHALL LIMIT HIS OPERATIONS TO ONE WORK ZONE NOT EXCEEDING 1.5 KILOMETERS IN LENGTH UNLESS OTHERWISE NOTED ON THE PLANS OR APPROVED BY THE ENGINEER. ONCE THE CONTRACTOR BEGINS WORK IN A WORK ZONE A CONTINUOUS OPERATION SHALL BE MAINTAINED UNTIL THE DIFFERENCE IN ELEVATION IS ELIMINATED. SIMULTANEOUS WORK ON SEPARATE ROADWAYS OF DIVIDED HIGHWAYS WILL BE CONSIDERED INDEPENDENTLY IN REGARD TO RESTRICTION OF WORK ZONE ACTIVITY.

(6) DIFFERENCE IN ELEVATION IS WITHIN 9 METERS OF THE NEAREST TRAFFIC LANE BEING USED BY TRAFFIC CAUSED BY GRADING, EXCAVATION FOR UTILITIES, DRAINAGE STRUCTURES, UNDERCUTTING, ETC

(7) DIFFERENCE IN ELEVATION IS WITHIN 2.4 METERS OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 20 mm AND NOT EXCEEDING 50 mm.

(8) WARNING SIGNS (UNEVEN PAVEMENT AND/OR LOW SHOULDER) SHALL BE PLACED IN ADVANCE OF AND THROUGHOUT THE EXPOSED AREA. MAXIMUM SPACING BETWEEN SIGNS SHALL BE 600 METERS WITH A MINIMUM OF 2 SIGNS PER EXPOSED AREA. WHERE UNEVEN PAVEMENT IS ENCOUNTERED, SIGNS SHALL BE PLACED ON EACH SIDE OF THE ROADWAY

(9) DIFFERENCE IN ELEVATION IS WITHIN 2.4 METERS OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 50 mm AND NOT EXCEEDING 150 mm

A SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

1. HERE POSTED SPEEDS ARE 80 km/h OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 30 METERS.

2 HERE POSTED SPEEDS ARE LESS THAN 80 km/h THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN METERS SHALL NOT EXCEED TWICE THE POSTED SPEED IN KILOMETERS PER HOUR OR 15 METERS, WHICHEVER SPACING IS GREATER.

(10) DIFFERENCE IN ELEVATION IS WITHIN 2.4 METERS OF THE NEAREST TRAFFIC LANE WITH DIFFERENCE IN ELEVATION GREATER THAN 150 mm:

A. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING.

1. WHERE POSTED SPEEDS ARE 80 km/h OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 30 METERS.

2 WHERE POSTED SPEEDS ARE LESS THAN 80 km/h THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN METERS SHALL NOT EXCEED TWICE THE POSTED SPEED IN KILOMETERS PER HOUR OR 15 METERS, WHICHEVER SPACING IS GREATER.

B. ELIMINATE VERTICAL OFFSET BY CONSTRUCTING A STONE WEDGE OR GRADING TO A 4:1 SLOPE, OR FLATTER, OR USE PORTABLE BARRIER RAIL.

THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE WITHIN 2.4 METERS OF A TRAFFIC LANE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE IS ELIMINATED.

(11) DIFFERENCE IN ELEVATION IS FARTHER THAN 2.4 METERS FROM THE NEAREST TRAFFIC LANE BUT NOT MORE THAN 9 METERS FROM THE NEAREST TRAFFIC LANE. SEPARATION SHALL BE ACCOMPLISHED BY DRUMS, BARRICADES OR OTHER APPROVED DEVICES IN ACCORDANCE WITH THE FOLLOWING:

A. WHERE POSTED SPEEDS ARE 80 km/h OR GREATER, SPACING OF THE PROTECTIVE DEVICES SHALL NOT EXCEED 30 METERS.

B. WHERE POSTED SPEEDS ARE LESS THAN 80 km/h, THE MAXIMUM SPACING OF THE PROTECTIVE DEVICES IN METERS SHALL NOT EXCEED TWICE THE POSTED SPEED IN KILOMETERS PER HOUR OR 30 METERS, WHICHEVER SPACING IS GREATER.

THE CONTRACTOR SHALL SCHEDULE THE WORK SO AS TO MINIMIZE THE TIME TRAFFIC IS EXPOSED TO AN ELEVATION DIFFERENCE. ONCE THE CONTRACTOR BEGINS AN ACTIVITY THAT CREATES AN ELEVATION DIFFERENCE, THE ACTIVITY SHALL BE PURSUED AS A CONTINUOUS OPERATION UNTIL THE ELEVATION DIFFERENCE IS ELIMINATED.

TRAFFIC CONTROL QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	QUANTITY	NO.	ITEM NO. 712M06 (m2)	SIZE (mm)	M.U.T.C.D NO.	DESCRIPTION
712M-01	TRAFFIC CONTROL	L.S.	1	1	114.0	19000 X 6000	D1-1	DESTINATION & DISTANCES
712M-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	m	6400	1	114.0	19000 X 6000	D1-2a	DESTINATION & DISTANCES
712M-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	62	2	304.0	19000 X 8000	D1-3	DESTINATION & DISTANCES
712M-05.01	WARNING LIGHTS (TYPE A)	EACH	6	3	1.2	900 X 450	G20-1	LENGTH OF WORK
712M05.03	WARNING LIGHTS (TYPE C)	EACH	62	23	9.3	900 X 450	G20-2	END ROAD WORK
712M-06.01	VERTICAL PANELS	m2	95	12	5.4	750 X 600	M1-4	U.S. HIGHWAY - 3 DIGITS
712M-07..03	TEMPORARY BARRICADES (TYPE III)	m	19	3	0.6	525 X 375	M2-1	JUCTION SUPPLEMENTAL
712M-08.03	ARROW BOARD (TYPE C)	EACH	2	4	0.7	600 X 300	M3-1	NORTH SUPPLEMENTAL
716M-05.01	PAINTED PAVEMENT MARKING (100mm LINE)	km	33	8	1.4	600 X 300	M3-3	SOUTH SUPPLEMENTAL
716M-05.02	PAINTED PAVEMENT MARKING (200mm LINE)	km	6.4	1	0.2	525 X 375	M5-2L	ADVANCE ARROW
716M-05.05	PAINTED PAVEMENT MARKING (STOP LINE)	m	44	1	0.2	525 X 375	M6-1L	DIRECTIONAL ARROW
				1	0.2	525 X 375	M6-1R	DIRECTIONAL ARROW
				2	0.4	525 X 375	M6-2R	DIRECTIONAL ARROW
				5	1.0	525 X 375	M6-3	DIRECTIONAL ARROW
				1	0.1	525 X 375	M6-4	DIRECTIONAL ARROW
				13	7.3	750 X 750	R1-1	STOP SIGN
				1	0.7	900 X 900	R1-2	YIELD
				4	1.8	600 X 750	R2-1	SPEED LIMIT SIGN
				1	0.9	1200 X 750	R11-2	ROAD CLOSED
				1	0.6	750 X 750	R5-1	DO NOT ENTER
				2	2.3	1500 X 750	R11-4	ROAD CLOSED
				1	0.8	900 X 900	W1-2L	CURVE SIGN
				2	0.9	750 X 600	TN-6C	
				1	0.8	900 X 900	W3-1	
				1	0.8	900 X 900	W3-5	SPEED LIMIT AHEAD
				1	0.8	900 X 900	W3-5a	SPEED ZONE AHEAD
				1	0.8	900 X 900	W4-1	
				2	1.6	900 X 900	W4-2L	LANE ENDS MERGE SYMBOL
				2	1.1	750 X 750	W9-2L	LANE ENDS MERGE
				1	0.6	750 X 750	W11-2	PEDESTRIAN SYMBOL
				2	0.4	450 X 450	W13-1	ADVISORY SPEED PLAQUE
				33	26.7	900 X 900	W20-1	ROAD WORK
				2	2.9	1200 X 1200	W20-7a	FLAGGER
				2	1.1	750 X 750	W21-2	FRESH OIL
				528	95.0	300 X 600		VERTICAL PANEL (LEFT)
TOTAL					606			

FOR CONST. FIELD REVIEW ONLY

METRIC

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

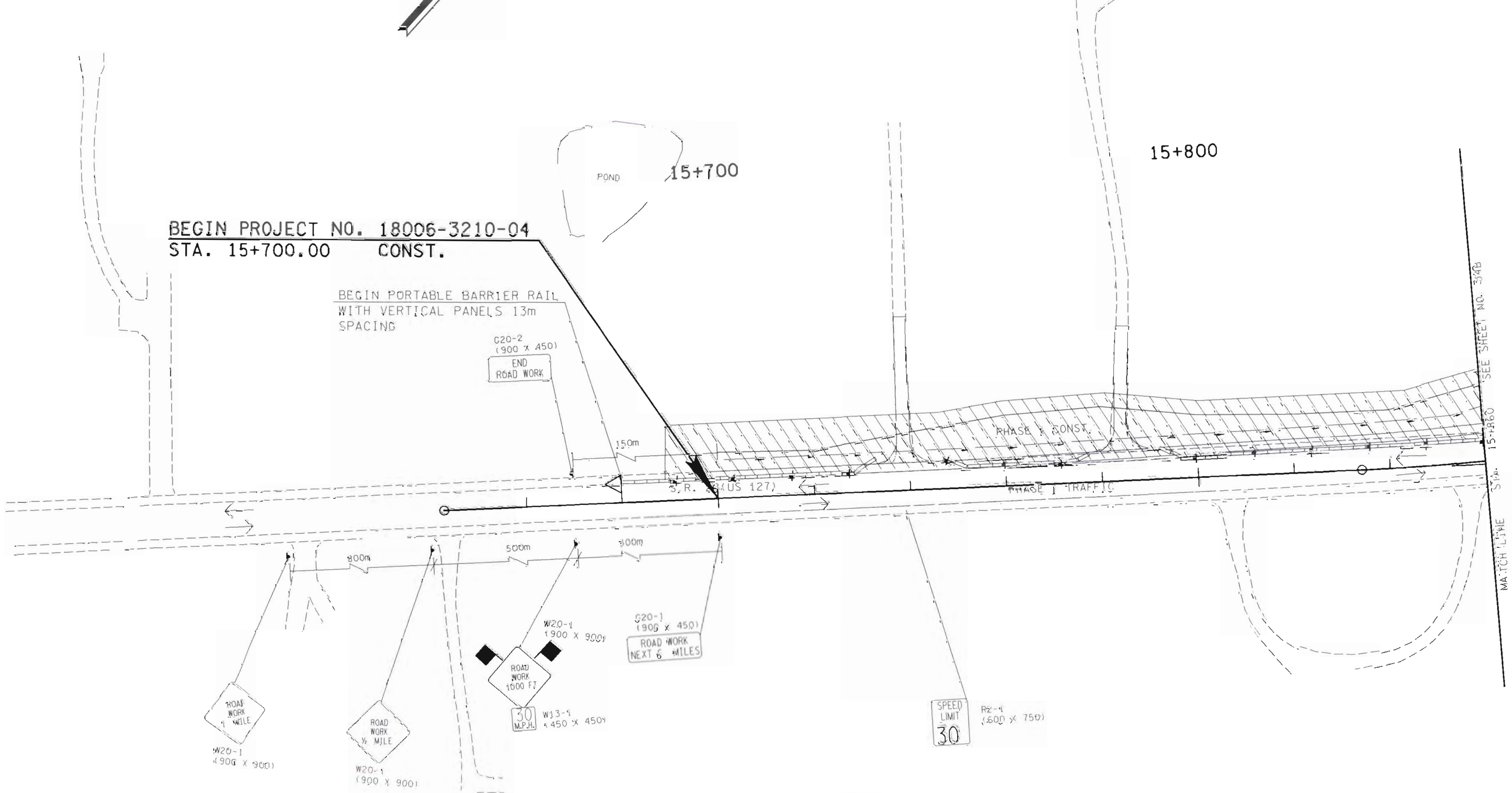
PAVEMENT EDGE DROP-OFF TRAFFIC CONTROL NOTES

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	34A

TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

SEQUENCE

PHASE 1: INSTALL TRAFFIC CONTROL DEVICES TRAFFIC ON EXISTING ROADWAY BUILD DRAINAGE STRUCTURES AND ROADWAY.



TRAFFIC CONTROL LEGEND	
SYMBOL	ITEM
	TEMP. TRAFFIC CONTROL SIGN
	TEMPORARY ATTENUATOR
	PORTABLE BARRIER RAIL (WITH SINGLE VERTICAL PANELS)
	TRAFFIC FLOW
	WARNING FLAGS (ON SIGN)
	TEMPORARY BARRICADE (TYPE III)
A	WARNING LIGHT TYPE "A" (LOW-INTENSITY FLASHING)
	WORK ZONE

FOR
CONST.
FIELD
REVIEW
ONLY

METRIC

COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

TRAFFIC CONTROL PLAN PHASE _1_

STA. 15 +700 TO STA. 15 +860

SCALE, 1:500
S.R. 28 / U.S. 127

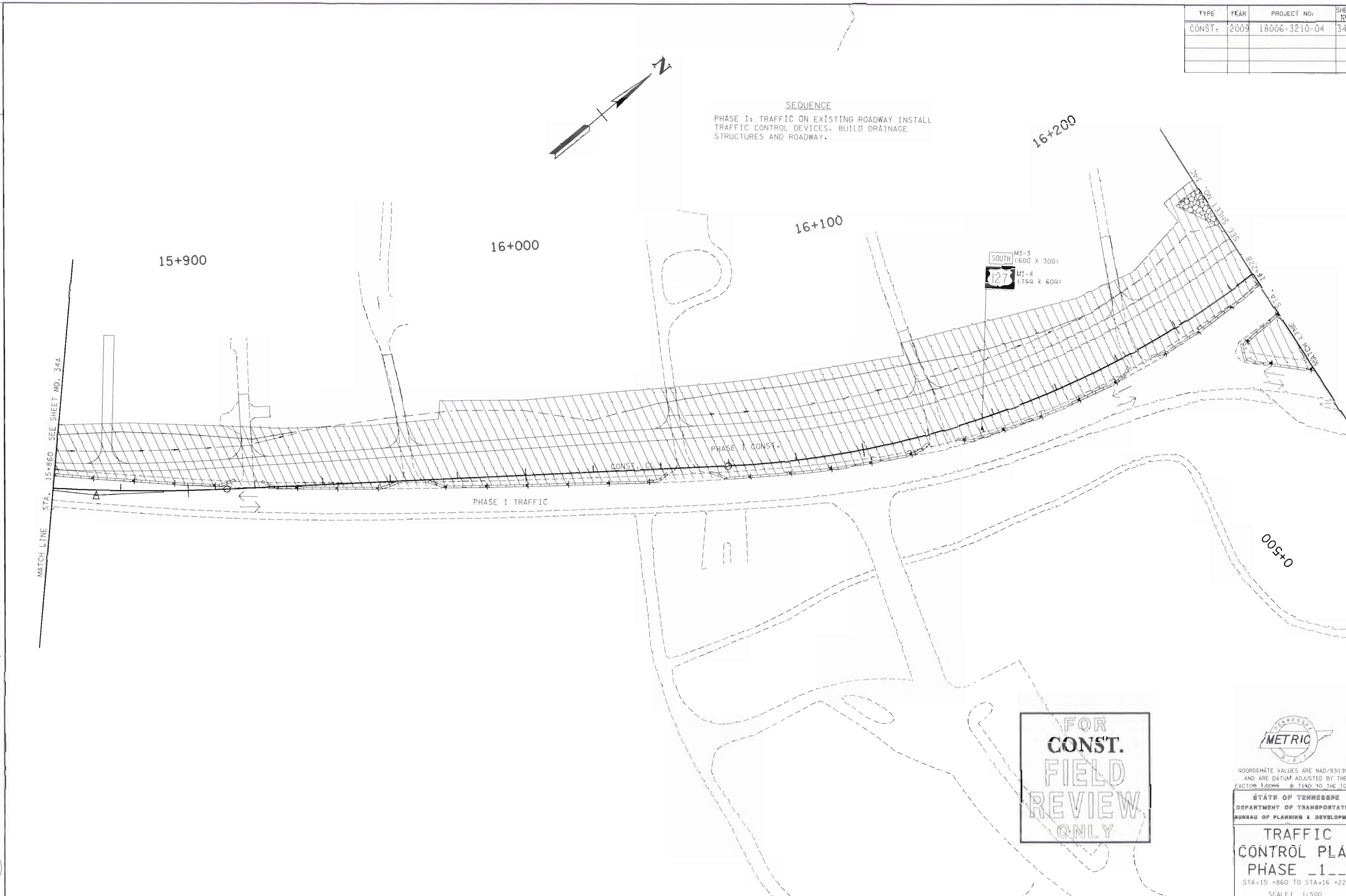
24-FEB-2010 16:03
\\JJ02WFD\chat.tenn\02Shared\Design County Folders\Cumberland\SR28sawmillroad\cumb28v8\cumb28\FinalDesign\2005\Construction plansJB\Constprintplansheets\CM28_34A.sht

Survey & Design Division

TENNESSEE D.O.T.
DESIGN DIVISION

FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
CONST.	2009	18006-3210-04	34B



COORDINATE VALUES ARE NAD/83(1995) AND ARE DATUM ADJUSTED BY THE FACTOR 1.0000 & TIED TO THE TGRN.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING & DEVELOPMENT

TRAFFIC CONTROL PLAN PHASE 1

STA.15 +860 TO STA.16 +220

SCALE: 1:500
S.R. 28 / U.S. 127

24-FEB-2010 16:03
\\JJ02WF01\chat.tenn\02Shared\Design County Folders\Cumberland\SR28sawmillroad\cumb28v8\cumb28\FinalDesign\2005\Construction plansJB\Constr\ntplansheets\CM28L34B.SHT