

GENERAL NOTES

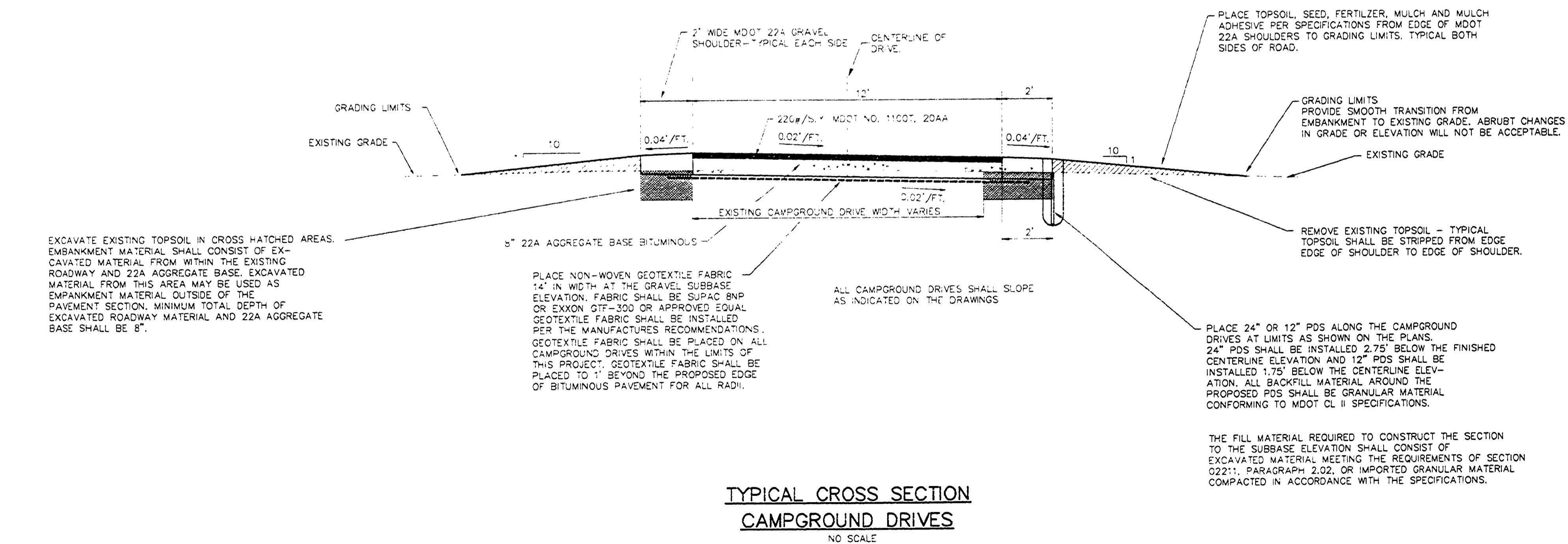
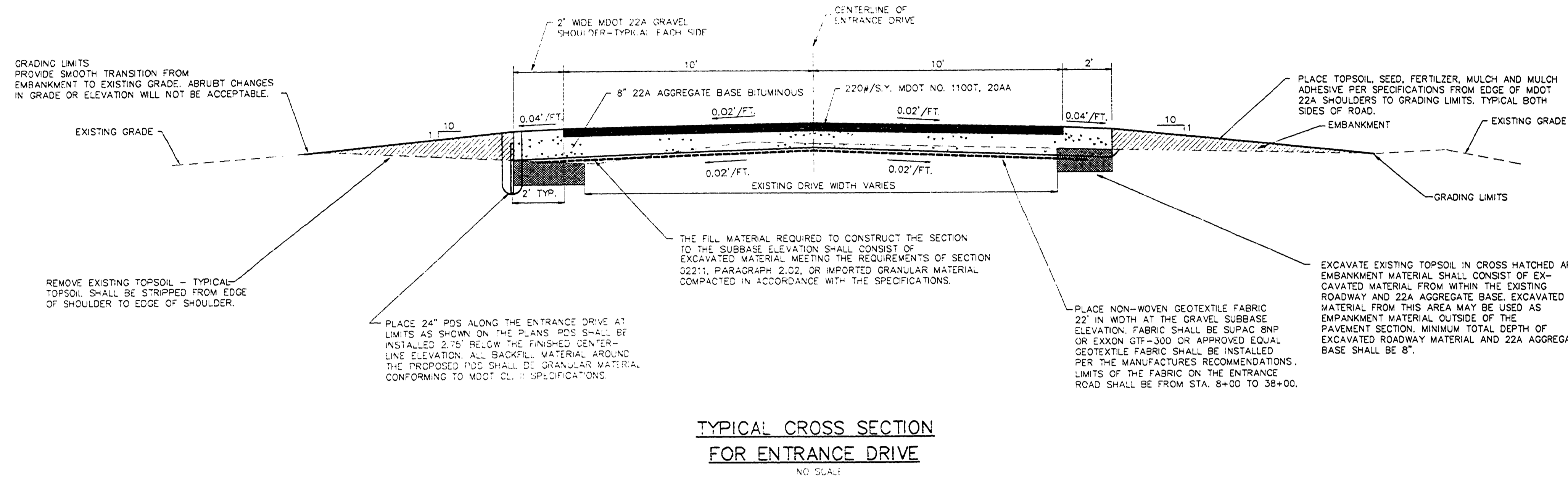
1. THE CONTRACTOR SHALL FURNISH AND MAINTAIN TRAFFIC CONTROL DEVICES FOR PROTECTING AND REGULATING TRAFFIC WITHIN THE PROJECT WORK AREA FOR THE DURATION OF CONSTRUCTION ACTIVITIES.
2. TOPSOIL STRIPPED FROM WITHIN THE GRADING LIMITS MAY BE STOCKPILED FOR REUSE AT AREAS APPROVED BY THE PROJECT MANAGER.
3. ALL DISTURBED AREAS BEYOND THE EDGE OF GRAVEL SHOULDERS SHALL BE RESTORED WITH 3 INCHES OF TOPSOIL, FERTILIZER, SEED, MULCH AND MULCH ADHESIVE.
4. ALL NON-REGULATORY SIGNS WITHIN THE GRADING LIMITS SHALL BE REMOVED AND REPLACED AFTER TOPSOIL HAS BEEN PLACED AND GRADED.
5. NEW PARKING RAILS SHALL CONFORM TO MDOT STANDARD DETAIL III-74D TITLED "BUMPER AND PARKING RAILS, AND MISC. WOOD POSTS" THE NEW RAILS SHALL BE ANCHORED WITH NEW 5/8" X 1'-4" LONG STEEL BARS - 3 PER RAIL.
6. CONTRACTOR SHALL NOTE THAT NOT ALL TREES WERE LOCATED AS PART OF THE SITE SURVEY. IN GENERAL TREES LARGER THAN 12" WERE LOCATED AND OF THE TREES LOCATED, DOUBLE AND/OR TRIPLE TRUNKED TREES ARE SHOWN AS A SINGLE TRUNKED TREE. THE CONTRACTOR SHALL USE HIS JUDGEMENT AS TO THE NUMBER OF TREES PRESENT ON THE SITE.
7. CONTRACTOR SHALL REMOVE ALL TREES AND BRUSH WITHIN THE GRADING LIMITS. TREES LOCATED AT THE GRADING LIMITS IN CUT SECTIONS SHALL BE REMOVED. TREES LOCATED AT THE GRADING LIMITS IN FILL SECTIONS MAY REMAIN AT THE CONTRACTORS OPTION PROVIDED THAT THE FILL WILL NOT DAMAGE THE TREE. ALL OTHER TREES SHALL BE PROTECTED.
8. ALL DISTURBED AREAS SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTED PRIOR TO CONSTRUCTION. TOPSOIL, SEED, FERTILIZER, MULCH AND MULCH ADHESIVE SHALL BE IN ACCORDANCE WITH SECTION 02901 OF THE SPECIFICATIONS. ALL AREAS SHALL BE SEEDED WITH MDOT CLASS "A" SEED MIXTURE.
9. UNLESS SPECIFICALLY NOTED FOR REMOVAL ON THE CONSTRUCTION PLANS, ALL SIDEWALKS, DRIVES, CULVERTS, GUARDRAILS, AND ABOVE GROUND UTILITIES SHALL BE PROTECTED. ALL SUCH UTILITIES DAMAGED OR DESTROYED DURING CONSTRUCTION SHALL BE REMOVED AND REPLACED INCIDENTAL TO CONSTRUCTION.
10. EXISTING WATER MAINS, GAS MAINS AND UNDERGROUND TELEPHONE, ELECTRIC AND CABLE TELEVISION CONDUITS AND/OR LINES MAY BE SHOWN ONLY IN THE PLAN VIEW OF THE CONSTRUCTION DRAWINGS. THE EXACT DEPTH AND LOCATIONS OF THESE UTILITIES IS NOT KNOWN AND THEREFORE, NO ATTEMPT HAS BEEN MADE TO SHOW SUCH UTILITIES IN THE PROFILE OF THE CONSTRUCTION DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THESE UTILITIES WHICH ARE NOT WITHIN THE SPACE OCCUPIED BY COMPLETED PIPES OR STRUCTURES THAT ARE PART OF THIS CONTRACT. DURING CONSTRUCTION, IF DAMAGED OR DESTROYED DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COSTS TO REPAIR OR REPLACE THEM AT NO ADDITIONAL EXPENSE TO THE OWNER.
11. CONTRACTOR SHALL REMOVE FROM THE PROJECT SITE ALL EXCESS EXCAVATED MATERIAL WHICH CAN NOT BE INCORPORATED INTO THE WORK.
12. THE CONTRACTOR SHALL USE A MINIMUM OF TWO BENCH MARKS FOR VERIFICATION OF GRADE FOR ALL CONSTRUCTION.
13. BIDS FOR CONSTRUCTION OF ALL WORK SHOWN ON THE PLANS ARE SOLICITED ON A LUMP SUM BASIS. NO SEPARATE PAYMENT OR ADJUSTMENTS TO THE LUMP SUM BID WILL BE MADE UNLESS SPECIFICALLY INDICATED ON THE PLANS AND IN THE PROPOSAL OR WHEN ADDITIONAL WORK IS AUTHORIZED IN WRITING BY THE PROJECT MANAGER.
14. TREES REMOVED AS PART OF THE WORK SHALL BE CUT INTO 8' TO 10' LENGTHS FREE FROM ALL LIMBS AND BRANCHES AND SHALL BE STOCKPILED AT THE PARK IN AN AREA DESIGNATED BY THE PROJECT MANAGER. LIMBS, BRUSH, AND BRANCHES SHALL BE CHIPPED AND ALL CHIPS SHALL BE STOCKPILED AT THE PARK IN AN AREA DESIGNATED BY THE PROJECT MANAGER. ALL STUMPS SHALL BE REMOVED FROM THE PARK SITE.
15. EXISTING GUARD POSTS WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION OPERATIONS SHALL BE REMOVED AND SHALL BE REPLACED UPON THE COMPLETION OF THE GRADING OPERATIONS. REUSE OF THE EXISTING POST IS ACCEPTABLE PROVIDED THE POST IS IN GOOD CONDITION.
16. EXISTING CAMPSITE MARKER POSTS WHICH INTERFERE WITH PROPOSED CONSTRUCTION OPERATIONS SHALL BE REMOVED AND SHALL BE REPLACED UPON COMPLETION OF THE GRADING OPERATIONS. REUSE OF THE EXISTING POST IS ACCEPTABLE PROVIDED THE POST IS IN GOOD CONDITION.
17. GUARDRAIL POSTS UTILIZED FOR THIS PROJECT SHALL BE GALVANIZED STEEL POSTS CONFORMING TO MDOT STANDARD PLAN III-60G. SHORT POSTS MAY BE REQUIRED IN THE AREA OF THE EXISTING CULVERTS. EXTREME CARE SHALL BE TAKEN TO PROTECT THE EXISTING 40" X 60" CMP CULVERTS DURING INSTALLATION OF THE GUARDRAIL POSTS.
18. ESTIMATED QUANTITIES INDICATED ON THE PLANS ARE INCLUDED FOR GENERAL REFERENCE ONLY. THE CONTRACTOR SHALL USE HIS INDEPENDENT JUDGEMENT AS TO THE ACCURACY OF THE ESTIMATED QUANTITIES STATED ON THE PLANS. THE CONTRACTOR SHALL NOTE THAT NO ADJUSTMENTS TO THE LUMP SUM PRICE WILL BE MADE FOR AS CONSTRUCTED QUANTITIES WHICH ARE IN EXCESS OF THE ESTIMATED QUANTITIES INDICATED ON THE PLANS.
19. AT LOCATIONS AS INDICATED ON THE PLANS INSTALL 4" DIAMETER PVC, SCHEDULE 80, FOR FUTURE ELECTRICAL CONDUITS EXTENDING TO 5' BEYOND THE PROPOSED EDGE OF SHOULDER. DEPTH OF CONDUIT SHALL BE 3'-8". MARK ENDS OF CONDUIT WITH 4" X 4" WOLMANIZED POSTS EXTENDED TO THE SURFACE AND PAINTED ORANGE.

ALLOWANCE ITEMS

20. THE LUMP SUM PRICE SHALL INCLUDE AN ALLOWANCE FOR 500 C.Y. OF SUBGRADE UNDERCUTTING FOR THE EXCAVATION AND REMOVAL OF UNSUITABLE MATERIAL BELOW THE SUBGRADE ELEVATION AND PLACEMENT OF BACKFILL IN ACCORDANCE WITH SPECIFICATION SECTION 02211, PARAGRAPH 3.01.B. ALL SUBGRADE UNDERCUTTING SHALL BE APPROVED IN WRITING BY THE PROJECT MANAGER PRIOR TO PLACEMENT. THE LUMP SUM PRICE WILL BE ADJUSTED TO REFLECT ACTUAL CONSTRUCTED QUANTITIES OF SUBGRADE UNDERCUTTING PERFORMED BY THE CONTRACTOR.
21. THE LUMP SUM PRICE SHALL INCLUDE AN ALLOWANCE FOR FURNISHING AND INSTALLING 1000 S.Y. OF GEO-GRID IN AREAS DETERMINED BY THE PROJECT MANAGER TO REQUIRE STABILIZATION. GEO-GRID SHALL BE HESKER FORTRAL 35/20-20 OR EQUAL. INSTALLATION OF GEO-GRID SHALL BE APPROVED IN WRITING BY THE PROJECT MANAGER PRIOR TO INSTALLATION. THE LUMP SUM PRICE WILL BE ADJUSTED TO REFLECT ACTUAL CONSTRUCTED QUANTITIES OF GEO-GRID INSTALLED.
22. THE LUMP SUM PRICE SHALL INCLUDE AN ALLOWANCE FOR FURNISHING AND INSTALLING 150 EACH GUARD POSTS AND CAMPSITE MARKER POSTS TO REPLACE EXISTING POSTS WHICH ARE DAMAGED OR UNACCEPTABLE FOR REUSE. INSTALLATION OF NEW POSTS SHALL BE APPROVED BY THE PROJECT MANAGER IN WRITING. UNUSED POSTS SHALL BE REMOVED FROM THE PROJECT SITE. POSTS SHALL CONFORM TO MDOT STANDARD PLAN III-74D ROADSIDE CONTROL GUARD POSTS.

SHOULDER CONSTRUCTION NOTE
TO APPLY TO ALL DRIVE AND CAMPGROUND CROSS SECTIONS

CONSTRUCTION OF MDOT 22A SHOULDERS SHALL BE IN ACCORDANCE WITH MDOT STANDARD SPECIFICATION 3.09, DUMPING OF AGGREGATE ON THE FINISHED ROADWAY AND BLADING INTO PLACE, AND USE OF CHEMICAL ADDITIVES WILL NOT BE ALLOWED. PLACEMENT OF SHOULDER MATERIAL IN SUCH A MANNER SHALL BE SUFFICIENT CAUSE TO REJECT THE ROADWAY AND WARRANT PLACEMENT OF A BITUMINOUS CAP AS REQUIRED BY THE PROJECT MANAGER.



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STATE OF MICHIGAN
DEPARTMENT OF MANAGEMENT AND BUDGET
Office of Facilities

QUALITY OF LIFE RECREATION BOND
MICHIGAN DEPARTMENT OF NATURAL RESOURCES
PARKS DIVISION - STATE ACCT. NO. 607-75-2450-400

ALOHA STATE PARK
TYPICAL CROSS SECTIONS
AND GENERAL NOTES

SCALE: NO SCALE
PROJ. NO.: 91165
SHEET 3 OF 17

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