

# GENERAL NOTES

CALC. BY: AED	OHIO	12
DATE: 08/00	LAK - 615 - 2.82	
CHKD. BY: WDB	FHWA REGION 5	
DATE: 8/00		

## INSPECTIONS

THE CITY ADMINISTRATOR, AT ITS DISCRETION, INSPECTS THE FOLLOWING: NURSERY STOCK PURCHASED UNDER THIS CONTRACT BEFORE DIGGING; PROGRESS OF PLANTING OR TEMPORARILY STORED TREES TO REVIEW THE PROGRESS OF THE WORK AND CONDITION OF TREES; PLANTING WORK TO VERIFY COMPLETION AND BEGIN GUARANTEE PERIOD. CONTRACTOR REQUESTS THIS INSPECTION IN WRITING AT LEAST TEN (10) DAYS BEFORE ITS SCHEDULED DATE. AFTER INSPECTION, THE CITY ADMINISTRATOR NOTIFIES THE CONTRACTOR IN WRITING OF DATE OF BEGINNING OF GUARANTEE PERIOD OR OF DEFICIENCIES TO CORRECT BEFORE GUARANTEE PERIOD BEGINS; TWO (2) MONTHS BEFORE END OF GUARANTEE PERIOD, THE CITY ADMINISTRATOR INSPECTS WORK AND NOTIFIES CONTRACTOR OF REPLACEMENT AND OTHER CORRECTIONS REQUIRED TO MAKE WORK ACCEPTABLE; AT END OF GUARANTEE PERIOD, CITY ADMINISTRATOR INSPECTS TREES TO DETERMINE FINAL ACCEPTANCE. CONTRACTOR REQUESTS THIS INSPECTION IN WRITING AT LEAST TEN (10) DAYS BEFORE THE SCHEDULED DATE. THE CITY ADMINISTRATOR RESERVES THE RIGHT TO INSPECT TREES BEFORE THEY ARE REMOVED FROM DELIVERY TRUCK AT WORK SITE. THE CONTRACTOR SHALL DISPOSE OF ANY TREE REJECTED BY THE CITY ADMINISTRATOR AT THE CONTRACTOR'S EXPENSE.

## GUARANTEE

CONTRACTOR GUARANTEES THAT ALL TREES REMAIN ALIVE AND HEALTHY UNTIL THE END OF A ONE (1) YEAR GUARANTEE PERIOD. CONTRACTOR REPLACES, AS SPECIFIED, AND AT HIS EXPENSE, ANY DEAD TREES AND ANY TREES THAT IN THE OPINION OF THE CITY ADMINISTRATOR HAVE BECOME UNHEALTHY OR UNSIGHTLY OR HAVE LOST THEIR NATURAL SHAPE DUE TO DEAD BRANCHES, IMPROPER PRUNING OR MAINTENANCE, OR ANY OTHER CAUSE DUE TO THE CONTRACTORS NEGLIGENCE, OR WEATHER CONDITIONS. CONTRACTOR STRAIGHTENS ANY LEANING TREES, BEARING THE ENTIRE COST.

SHOULD ANY DEFECTS DEVELOP IN AFORESAID WORK, WITHIN SPECIFIED PERIODS, DUE TO FAULTS IN MATERIALS AND/OR WORKMANSHIP, CONTRACTOR HEREBY AGREES TO MAKE ALL REPAIRS AND DO ALL NECESSARY WORK TO CORRECT DEFECTIVE WORK TO THE CITY OF MENTOR'S SATISFACTION. SUCH REPAIRS AND CORRECTIVE WORK SHALL BE DONE WITHOUT COST TO THE CITY OF MENTOR AND AT ENTIRE COST AND EXPENSE OF THE CONTRACTOR WITHIN TWENTY (20) DAYS AFTER WRITTEN NOTICE TO THE CONTRACTOR BY THE CITY OF MENTOR.

## WORK PROCEDURES

TREES SHALL BE TRANSPORTED AND HANDLED WITH ADEQUATE PROTECTION. TREES SHALL BE COVERED WITH TARPULIN DURING TRANSIT OR TRANSPORTED IN CLOSED TRUCK. TREES IN LEAF SHALL BE SPRAYED BEFORE SHIPPING WITH "WILTPRUF", "WINTERSHIELD" OR OTHER ANTI-DESICCANT APPROVED BY THE CITY ADMINISTRATOR. ROOT BALLS OF TREES NOT IMMEDIATELY PLANTED AFTER DELIVERY MUST BE ADEQUATELY PROTECTED BY MULCH OR HEELING-IN AND WATERING UNTIL PLANTING OCCURS. CONTRACTOR ASSUMES ALL RISK AND EXPENSE OF TEMPORARY STORAGE. PLANTING IS ONLY ALLOWED WHEN THE SOIL IS NOT FROZEN. BALLED AND BURLAPPED TREES ARE SET ON TAMPED BACKFILL, PLACING TREE AT SAME DEPTH AS IN NURSERY OR UP TO THREE (3) INCHES HIGHER THAN THAT LEVEL. PLANTING HEIGHT MAY BE ADJUSTED IF UNUSUAL SITE SITUATIONS ARE ENCOUNTERED AFTER APPROVAL BY CITY ADMINISTRATOR. TREES WITH FORKED TOP SHOULD BE ORIENTED WITH FORKED LIMBS POINTED PARALLEL TO STREET AND NOT TOWARD STREET. PLANTING IS NOT ALLOWED ON DAYS WHEN TEMPERATURES FALL BELOW 30°F. HOLES SHALL BE DUG BY HAND, WITH BACKHOE, TREE SPADE, AUGER OR OTHER APPROVED EQUIPMENT AT SPECIFIED LOCATION. HOLES SHALL BE GROUND TO SIZE SUFFICIENT TO ALLOW SIX (6) INCHES OF BACKFILL BENEATH AND AROUND ROOT SYSTEMS; SIDES SHOULD BE VERTICAL AND ROUGH; BOTTOM SHOULD BE ROUGH AND FLAT. HOLES SHALL BE GROUND ONLY ON DAY TREE IS PLANTED. CONTRACTOR IS RESPONSIBLE TO ENSURE ALL HOLES ARE SAFE UNTIL PLANTED AND COVERED WITH MULCH.

ENDS OF BROKEN OR DAMAGED ROOTS OVER 1/4" IN DIAMETER SHOULD BE PRUNED WITH A CLEAN CUT, REMOVING ONLY INJURED PORTION. PRUNING TO MAKE TREES SHAPELY AND TYPICAL OF SPECIES SHALL BE DONE ACCORDING TO RECOGNIZED HORTICULTURE STANDARDS AND INSTRUCTIONS OF THE CITY ADMINISTRATOR. TREES SHALL BE PRUNED TO CLEAR FOR PEDESTRIANS AND VEHICLES AS MUCH AS POSSIBLE. ACCIDENTAL DAMAGE DURING PLANTING NOT GREAT ENOUGH TO WARRANT BRANCH REMOVAL OR TREE REPLACEMENT SHOULD BE PROMPTLY TRACED ACCORDING TO RECOGNIZED HORTICULTURAL PRACTICES. PRUNING PAINT IS NOT NECESSARY.

PLANTING HOLES SHALL BE BACKFILLED WITH APPROVED TOP SOIL. INCORPORATE A WATER ABSORBING MATERIAL SUCH AS POLYMERS INTO THE BACKFILL. TAMP BACKFILL WITH FEET, RODS, OR OTHER APPROVED TAMPING DEVICE AS IT IS PLACED INTO HOLE. SHAPE BACKFILL AND MULCH IN A WATER RING TO FACILITATE WATERING. THOROUGHLY WATER TO SETTLE BACKFILL WHEN HALF OF BACKFILL IS IN PLACE AND AGAIN AFTER ALL BACKFILL IS PLACED. IT IS REQUIRED THAT WATERING CONTINUE THROUGH THE FIRST GROWING SEASON TO INCREASE CHANCES OF SURVIVAL AFTER PLANTING. FREQUENCY WILL DEPEND ON WEATHER.

PLACE ROUGH SHREDDED BARK WOOD CHIPS LOOSELY AROUND TREES WITHIN 24 HOURS AFTER PLANTING TO UNIFORM DEPTH OF NO MORE THAN FOUR (4) INCHES AND TO A DIAMETER OF THREE (3) FEET WHERE POSSIBLE.

## REMOVAL MISC: COBBLESTONE PILLARS REMOVED AND REPLACED, AS PER PLAN

PRIOR TO WORK IN THE AREA, THE CONTRACTOR SHALL REMOVE, STORE AND REPLACE THE EXISTING COBBLESTONE PILLARS LOCATED AT STATIONS 26+85 LT. AND 27+64 LT. PRIOR TO REMOVAL THE CONTRACTOR SHALL VIDEOTAPE ALL SIDES OF BOTH PILLARS TO RECORD THEIR CONDITION AND THEN TIGHTLY WRAP THE PILLARS WITH FOAM WRAPPING, TAKING CARE THAT THE COBBLESTONES ARE NOT DISTURBED. THE WRAPPING SHALL EXTEND THE HEIGHT OF THE PILLARS AND SHALL BE SECURELY BOUND. THE CONTRACTOR SHALL THEN HAND DIG OUT THE SOIL SURROUNDING THE FOUNDATIONS. THE PILLARS SHALL BE SUPPORTED DURING THE EXCAVATION. IF THERE IS A DISCERNIBLE INTERFACE BETWEEN THE PILLARS AND THE FOUNDATIONS, THE CONTRACTOR SHALL MOVE THE PILLARS ONLY AND REMOVE THE FOUNDATIONS AS PER ITEM 202.02. TO MOVE THE PILLARS AND/OR THE FOUNDATIONS THE CONTRACTOR SHALL SURROUND THE PILLARS WITH 3/4" PLYWOOD, USING STEEL STRAPPING TAPE TO SECURE THE PLYWOOD. IF THERE IS A DISCERNIBLE INTERFACE BETWEEN THE PILLARS AND FOUNDATIONS, THE CONTRACTOR SHALL PLACE A SECTION OF PLYWOOD WITHIN THE INTERFACE BY SLIGHTLY TIPPING THE PILLARS, CONTAINED WITHIN THE PLYWOOD "BOX". IF THERE IS NO INTERFACE, THE CONTRACTOR SHALL PLACE PLYWOOD INSTEAD UNDERNEATH THE FOUNDATION WHILE ENSURING THE PLYWOOD ALONGSIDE THE PILLARS EXTENDS DOWN PAST THE BOTTOM OF PILLARS FOR ADDED SUPPORT. THE CONTRACTOR SHALL PLACE PLYWOOD ON TOP OF THE "BOX" AND SECURE THE TOP AND BOTTOM WITH STEEL STRAPPING TAPE. PRIOR TO REMOVAL OF THE BOX, THE SIDE OF THE PILLARS WHICH FACED THE STREET AND STATION OF THE PILLARS SHALL BE LABELED ON THE OUTSIDE OF THE BOX. THE CONTRACTOR SHALL THEN LIFT THE PILLARS AND/OR FOUNDATIONS AND PLACE THE PLYWOOD "BOX" IN A PREARRANGED STORAGE LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE STORAGE BOXES AND THEIR CONTENTS FOR THE LENGTH OF THE STORAGE.

ONCE THE PAVEMENT AND SIDEWALKS HAVE BEEN INSTALLED AND FINAL GRADING ESTABLISHED AND PRIOR TO INSTALLATION OF SODDING, THE CONTRACTOR SHALL MOVE THE BOXES FROM THEIR STORAGE LOCATION AND INSTALL THE PILLARS AND/OR FOUNDATIONS IN A LOCATION PREVIOUSLY AGREED UPON DURING THE RIGHT-OF-WAY PROCESS. THE SIDE OF THE PILLARS WHICH PREVIOUSLY FACED THE STREET SHALL BE REPLACED IN THE SAME RESPECTIVE LOCATION. IF THE EXISTING FOUNDATION HAS BEEN REMOVED, THE CONTRACTOR SHALL PREPARE NEW FOUNDATIONS AS PER ITEM 602. IF THE EXISTING FOUNDATIONS REMAIN, THE CONTRACTOR SHALL EXCAVATE, ENCASE THE OLD FOUNDATION IN CONCRETE, AND BACKFILL AS PER ITEM 602.03. THE FINISHED GRADE SURROUNDING THE RELOCATED PILLARS SHALL BE AS SHOWN ON THE PLANS AND CROSS SECTIONS. THE PLYWOOD BOX SHALL BE REMOVED AFTER THE PILLARS AND THE EXISTING OR NEW FOUNDATIONS HAVE BEEN STABILIZED. THE WRAPPING SHALL BE REMOVED AFTER THE FINAL GRADING HAS BEEN ESTABLISHED.

ALL WORK SHALL BE DIRECTED BY THE ENGINEER. THE CONTRACTOR MAY USE AN ALTERNATE METHOD OF PRESERVATION, EXCAVATION, SUPPORT, STORAGE AND RESTORATION IF APPROVED BY THE ENGINEER. THE CONTRACTOR IS CAUTIONED TO USE EXTREME CARE IN THE REMOVAL, STORAGE AND RE-PLACEMENT OF THE PILLARS AND FOUNDATION. DAMAGE TO THE PILLARS DURING THESE OPERATIONS SHALL BE REPAIRED, IF POSSIBLE, AT THE EXPENSE OF THE CONTRACTOR AND TO THE SATISFACTION OF THE ENGINEER. THE PROPERTY OWNER SHALL BE COMPENSATED IF THE PILLARS ARE DAMAGED, DESTROYED OR STOLEN DURING THESE OPERATIONS.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE, INCLUDING THE REMOVAL AND REPLACEMENT OF THE FOUNDATIONS, OR THE SALVAGING OF THE OLD FOUNDATION AND ENCASING IT IN CONCRETE, ALONG WITH THE LABOR, MATERIAL AND EQUIPMENT NECESSARY TO PERFORM THE ABOVE OPERATIONS, SHALL BE INCLUDED IN THE CONTRACT PRICE FOR REMOVAL MISC: COBBLESTONE PILLARS REMOVED AND REPLACED, TYPE 1.

## ITEM 608 - 4" CONCRETE WALK

THE FOLLOWING CONTINGENCY QUANTITY HAS BEEN PROVIDED FOR THE REPLACEMENT OF SIDEWALK ALONG S.R.84 DAMAGED DUE TO MAINTENANCE OF TRAFFIC OPERATIONS, AS DIRECTED BY THE ENGINEER:

ITEM 608 - 4" CONCRETE WALK 13,250 S.F.

## ITEM 608 - 4" CONCRETE WALK, AS PER PLAN, BOMANITE ITEM 608 - CURB RAMP, TYPE 1, AS PER PLAN

A ONE (1) FOOT WIDE STRIP OF BOMANITE SHALL BE PLACED ALONG BOTH SIDES SIDES OF THE ROADWAY DIRECTLY BEHIND THE CURB. SEE TYPICAL SECTIONS ON SHEETS 6-8. THE BOMANITE SHALL BE PLACED THROUGH CURB RAMPS AND DRIVE APRONS. A SELF LEVELING CAULK SHALL BE PLACED ALONG THE JOINTS FOR WEED CONTROL. QUANTITIES FOR THE BOMANITE WALK AND CURB RAMPS APPEAR ON SHEET 38-39. BOMANITE SHALL BE INSTALLED BY A CONTRACTOR WHO HAS A MINIMUM OF THREE YEARS EXPERIENCE WITH COLORED IMPRINTED CONCRETE AND HAS BEEN TRAINED AND LICENSED BY BOMANITE CORPORATION, P.O. BOX 599 CALIFORNIA 93639, 1-800-854-2094

## EROSION CONTROL

ITEM 660 IS PROVIDED IN THE PLANS FOR EROSION CONTROL. TURF OF A STABLE NATURE WILL NOT BE REMOVED IN ORDER TO PLACE ITEM 660. THE ENGINEER SHALL CHECK & NON-PERFORM QUANTITIES OR ADJUST LOCATIONS AND QUANTITIES FOR THIS ITEM WHERE INDICATED BY FIELD CONDITIONS DURING CONSTRUCTION.

## EROSION CONTROL - CONTINUED

ADDITIONAL QUANTITIES FOR TEMPORARY SOIL EROSION & SEDIMENT CONTROL APPEAR ON THE STORM WATER POLLUTION PREVENTION PLAN SHOWN ON SHEETS 56-57.

## TEMPORARY SOIL EROSION AND SEDIMENT CONTROL

THE FOLLOWING ESTIMATED QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER FOR TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.

ITEM 877 - TEMPORARY SEEDING & MULCHING	1500 SQ.YD.
ITEM 877 - TEMPORARY PERIMETER, DITCH CHECK OR INLET PROTECTION FILTER FABRIC FENCE	2000 LIN.FT.
ITEM 870 - COMMERCIAL FERTILIZER	0.5 TON
ITEM 870 - AGRICULTURAL LIMING	1.5 TON
ITEM 870 - WATER	30 M-GAL
ITEM 870 - MOWING	30 M-SQ.FT.

## ITEM 653 - TOPSOIL FURNISHED AND PLACED

THE CONTRACTOR SHALL PLACE A 2" TOPSOIL GRADING BENEATH ALL SODDED AREAS. AN ESTIMATED QUANTITY OF TOPSOIL FURNISHED & PLACED HAS BEEN CALCULATED ON SHEET 51. THE IGNITION TEST AS PER 653.02 SHALL BE WAIVED.

## MOWING PERMANENT SODDED AREAS

THE FOLLOWING ESTIMATED QUANTITY IS TO BE USED TO PROMOTE GROWTH & CARE FOR PERMANENT SODDED AREAS AS NECESSARY &/OR DIRECTED BY THE ENGINEER, AS PER 660.08:

ITEM 870 MOWING 5 M.SQ.FT.

THE LIMITS OF THE PERMANENT SODDED AREAS ARE STA.133+00 RT. TO STA.162+00 RT. S.R.84 AND STA.4+76 TO STA.34+50 LT.&RT. S.R.615.

## PAVEMENT

### CONTRACTION AND/OR EXPANSION JOINTS

ALTHOUGH SPECIFIC LOCATIONS OF CERTAIN CONTRACTION AND EXPANSION JOINTS HAVE BEEN DETAILED ON THIS PLAN, NO WAIVER OF THE SPECIFICATION IS INTENDED. PROVISION OF EXPANSION JOINTS AT ALL MAJOR STRUCTURES AND THE MAXIMUM SPACING BETWEEN CONTRACTION JOINTS SHALL, IN ALL CASES BE IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING BP-2.2M AND THE SPECIFICATIONS.

### CONTRACTION JOINTS IN CONCRETE PAVEMENT OR BASE WIDENING

WHERE NEW CONCRETE IS PLACED ADJACENT TO EXISTING CONCRETE, CONTRACTION JOINTS SHALL BE PROVIDED IN THE NEW CONCRETE SO AS TO FORM CONTINUOUS JOINTS WITH THOSE IN THE EXISTING CONCRETE.

THE MAXIMUM DISTANCE BETWEEN THE JOINTS IN THE NEW CONCRETE SHALL BE IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING BP-2.2M. IF NECESSARY, ADDITIONAL JOINTS SHALL BE PROVIDED IN THE NEW CONCRETE AT APPROXIMATELY EQUAL INTERVALS BETWEEN EXISTING JOINTS THAT EXCEED THE MAXIMUM SPACING.

## ITEM 304 - AGGREGATE BASE, AS PER PLAN

MATERIAL FURNISHED FOR THIS ITEM SHALL EXCLUDE ALL SLAG.

## ITEM 407, TACK COAT

THE RATE OF APPLICATION OF THE 407 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.10 GALLONS PER SQUARE YARD OF TACK COAT FOR ESTIMATING PURPOSES ONLY.

## ITEM 255 - PAVEMENT REPAIR

THIS ITEM IS TO BE USED FOR FULL DEPTH PAVEMENT REPAIRS ALONG THE NORTH SIDE OF STATE ROUTE 84 IF THE EXISTING EDGE OF PAVEMENT FAILS DURING MAINTENANCE OF TRAFFIC OPERATIONS. REPAIR AREAS SHALL BE AS DIRECTED BY THE ENGINEER. TYPICAL REPAIR SECTIONS APPEAR ON SHEET 149. THE FOLLOWING ESTIMATED CONTINGENCY QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR WORK AS DIRECTED BY THE ENGINEER. THESE ITEMS ARE IN ADDITION TO THOSE SPECIFIED LOCATIONS NOTED ON THE PLAN.

ITEM 255 - FULL DEPTH RIGID PAVEMENT REMOVAL & RIGID REPLACEMENT, CLASS FS	100 SQ.YD.
ITEM 255 - FULL DEPTH PAVEMENT SAWING	500 LIN.FT.