

## GENERAL NOTES

1. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, AND CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IN ADDITION, THE CONTRACTOR MUST VERIFY THE LINE AND GRADES. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONSTRUCTION PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSION OR DISCREPANCIES. FAILURE TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.

2. THE STANDARD SPECIFICATIONS, CONSTRUCTION PLANS, AND SUBSEQUENT DETAILS ARE ALL TO BE CONSIDERED AS PART OF THE CONTRACT. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED BUT ARE TO BE CONSIDERED PART OF THE CONTRACT. ALL CONSTRUCTION SHALL CONFORM TO THE VILLAGE OF DOWNERS GROVE STANDARDS AND SPECIFICATIONS.

3. THE CONTRACTORS FOR ALL CONTRACTS SHALL NOTIFY JULLIE, THE SANITARY DISTRICT, AND ANY APPLICABLE ENGINEERING OR BUILDING DEPARTMENTS TWO (2) WORKING DAYS MINIMUM PRIOR TO START OF WORK. AS REQUIRED, THE UTILITY COMPANIES WILL ESTABLISH ON THE GROUND, THE LOCATION OF UNDERGROUND PIPES, CONDUITS OR CABLES ADJOINING OR CROSSING PROPOSED CONSTRUCTION.

4. IT IS THE CONTRACTOR'S RESPONSIBILITY THAT UNDERGROUND CONSTRUCTION SHALL COMPLY WITH "THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", ADOPTED MAY 1996 OR LATEST REVISION.

5. ALL EXCAVATION WORK SHALL COMPLY WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION "SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2002 OR LATEST REVISION.

6. THE CONTRACTOR SHALL INDEMNIFY THE OWNER, THE ENGINEER, THE VILLAGE OF CITY AND THEIR AGENTS FROM ALL LIABILITY INVOLVED IN THE CONSTRUCTION, INSTALLATION AND TESTING OF THE WORK ON THIS PROJECT.

7. WHEN A CONFLICT BETWEEN PLANS AND SPECIFICATIONS OR NOTES OCCURS, THE ENGINEER SHALL DECIDE WHICH GOVERNS. GENERALLY, THE MORE RESTRICTIVE, MORE SPECIFIC OR STRICTER PROVISION SHALL GOVERN.

8. THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL AREAS AFFECTED BY EQUIPMENT OR LABORERS TO EXISTING CONDITIONS. CONTRACTOR IS ALSO RESPONSIBLE FOR PROTECTING ALL NEW WORK UNTIL COMPLETION OF THIS CONTRACT.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ANY ROAD OR MATERIAL THAT IS FROM THE PROJECT. THE CONTRACTOR SHALL CLEAN THE STREETS ON A DAILY BASIS. THIS WILL BE DONE AT THE CLOSE OF EACH DAY OF WORK OR MORE FREQUENTLY AS MAY BE REQUIRED DUE TO FIELD CONDITIONS.

10. THE CONTRACTOR IS TO VERIFY ALL ELEVATIONS PRIOR TO THE START OF WORK AND, IF THERE ARE ANY DISCREPANCIES, IS TO NOTIFY THE DESIGN ENGINEER AT ONCE. NO WORK SHALL BE DONE UNTIL THE DISCREPANCIES ARE RESOLVED.

11. THE CONTRACTOR IS RESPONSIBLE FOR THE TRAFFIC CONTROL AND PROTECTION OF ALL WORK CONDUCTED WITHIN PUBLIC RIGHT-OF-WAYS, TRAFFIC CONTROL AND PROTECTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE ARTICLES OF SECTION 100 AND 700 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2002, AND THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS".

12. WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THE LOOSE MATERIAL WILL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNS, TRAFFIC CONTROL DEVICES, AND WARNING DEVICES TO INFORM AND PROTECT THE PUBLIC DURING ALL PHASES OF CONSTRUCTION. ALL SAFETY REQUIREMENTS PROVIDED BY THE VILLAGE/CITY AND/OR OSHA SHALL BE ADHERED TO BY THE CONTRACTOR DURING CONSTRUCTION OPERATIONS.

14. DURING CONSTRUCTION OPERATIONS THE CONTRACTOR SHALL INSURE POSITIVE SITE DRAINAGE AT THE CONCLUSION OF EACH DAY. SITE DRAINAGE MAY BE ACHIEVED BY DITCHING, PUMPING, OR ANY OTHER METHOD ACCEPTABLE TO THE ENGINEER. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF.

15. ALL CONSTRUCTION WILL BE INSPECTED BY THE VILLAGE OF CITY ENGINEER OR HIS REPRESENTATIVE. SPECIFICALLY ALL TRENCHES AND SEWERS SHALL BE LEFT OPEN BUT SAFELY BARRICADED UNTIL INSPECTED AND APPROVED BY THE VILLAGE/CITY ENGINEER. PAVEMENT SUBBASE, BASE, AND SURFACE MUST EACH BE INSPECTED BY THE ENGINEER PRIOR TO THE NEXT PHASE OF WORK. PROOF ROLLING AND NUCLEAR DENSITY TESTING WILL BE UTILIZED.

16. THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR HIS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

17. THE CONTRACTOR IS TO VERIFY ALL FIELD CONDITIONS, PROPOSED IMPROVEMENTS, AND ELEVATIONS PRIOR TO THE START OF WORK AND, IF THERE ARE ANY DISCREPANCIES, IS TO NOTIFY THE DESIGN ENGINEER AT ONCE. NO WORK SHALL BE DONE UNTIL THE DISCREPANCIES ARE RESOLVED.

18. ALL SHIRTS, T-SHIRTS, OR EXCAVATION MATERIAL AND ANY OTHER UNSUITABLE MATERIAL SHALL BE REMOVED AND DISPOSED OF AT AN OFF-SITE LOCATION. AREAS WHICH ARE TO BE FILLED SHALL BE COMPACTED TO A MAXIMUM DENSITY OF 95% AS DETERMINED BY THE MODIFIED AASHTO COMPACTION TEST, T-99-74, (ASTM-D-1557) IN PAVED AREAS. THE OWNER'S SOILS ENGINEER SHALL EVALUATE AND APPROVE THE EXCAVATION, FILL PLACEMENT, AND COMPACTION PRIOR TO PAVEMENT CONSTRUCTION. THE CONTRACTOR SHALL GIVE THE GOVERNING AUTHORITIES HAVING JURISDICTION OVER THE WORK FORTY-EIGHT (48) HOURS NOTICE BEFORE WORK COMMENCES.

19. ANY WATER AND WASTEWATER UTILITIES AFFECTED BY CONSTRUCTION, INCLUDING GRADES, MUST BE BROUGHT TO CURRENT VILLAGE OR CITY STANDARDS AT THE CONTRACTOR'S EXPENSE.

20. EXISTING UTILITIES, TREES, STREETS, AND PRIVATE PROPERTY SHALL BE PROTECTED DURING CONSTRUCTION BY THE CONTRACTOR. ANY DAMAGES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

21. THE CONTRACTOR SHALL PROVIDE EROSION AND SEDIMENTATION CONTROL AT AREAS DESIGNATED ON THE SITE PLAN. ADDITIONAL MEASURES SHALL BE PROVIDED AS DEEMED NECESSARY BY THE VILLAGE, CITY OR THE DESIGN ENGINEER AT CONTRACTOR'S EXPENSE.

22. ALL HANDICAP PROVISIONS SHALL BE IN ACCORDANCE WITH THE "AMERICAN DISABILITIES ACT" (ADA) DATED NOVEMBER 29, 1990 OR LATEST REVISION.

23. THE CONTRACTOR IS RESPONSIBLE FOR EXAMINATION OF THE ENGINEERING PLANS AND SPECIFICATIONS AND THE EXISTING SITE CONDITIONS PRIOR TO SUBMITTING A BID, AND NOTIFYING THE ENGINEER AT ONCE OF ANY DISCREPANCIES.

24. THE CONTRACTOR IS RESPONSIBLE FOR THE OBTAINING OF ANY NECESSARY PERMITS NOT PREVIOUSLY APPLIED FOR BY THE OWNER AND POSTING OF THE NECESSARY BONDS.

25. THE CONTRACTOR IS RESPONSIBLE FOR THE NOTIFICATION OF THE START OF CONSTRUCTION TO ALL JURISDICTIONAL AGENCIES, UTILITY COMPANIES, AND THE ENGINEER, AT LEAST TWO (2) WORKING DAYS PRIOR TO START. ALL EXISTING UTILITIES MUST BE STAKED PRIOR TO CONSTRUCTION. VILLAGE OR CITY ENGINEERING DIVISION SHALL BE NOTIFIED 48 HRS. IN ADVANCE.

26. THE CONTRACTOR IS RESPONSIBLE FOR CALLING ATTENTION TO THE OWNER OF ANY ERRORS OR DISCREPANCIES WHICH MAY BE SUSPECTED IN LINES AND GRADES WHICH ARE ESTABLISHED BY THE OWNER. THE CONTRACTOR SHALL NOT PROCEED WITH THE WORK UNTIL THE LINES AND GRADES, WHICH ARE BELIEVED TO BE IN ERROR, HAVE BEEN VERIFIED OR CORRECTED BY THE OWNER. ADDITIONAL STAKING THAT MAY BE REQUIRED DUE TO THE CONTRACTOR NEGLIGENCE, SHALL BE PAID FOR BY THE CONTRACTOR.

27. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND HEALTHFUL WORKING CONDITION THROUGHOUT THE CONSTRUCTION WORK. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE REMOVAL OF DEBRIS, THE PROTECTING OF CONSTRUCTION BARRICADES, AND THE KEEPING OF PUBLIC STREET PAVEMENTS CLEAN OF CONSTRUCTION DIRT AND DEBRIS, SECURING OPEN EXCAVATIONS, AND FOLLOWING ALL SAFETY MEASURES REQUIRED BY THE GOVERNING AUTHORITIES.

28. THE CONTRACTOR IS RESPONSIBLE FOR THE RESTORATION TO THE ORIGINAL CONDITION OR BETTER OF ANY OFF SITE AREAS THAT ARE DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION.

29. THE CONTRACTOR IS RESPONSIBLE FOR THE TESTING OF MATERIALS, IF REQUIRED BY THE OWNER AND/OR THE JURISDICTIONAL AGENCIES.

30. THE CONTRACTOR IS RESPONSIBLE FOR THE GUARANTEE OF ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF TWO (2) YEARS UPON FINAL ACCEPTANCE BY THE OWNER AND THE JURISDICTIONAL AGENCIES.

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31. ALL LANDSCAPE, SOO AND SEEDING AREAS SHALL RECEIVE A MINIMUM OF 4 INCHES OF TOPSOIL TO ACHIEVE THE FINAL GRADES SHOWN ON THE FINAL ENGINEERING PLANS.

32. UNSUITABLE MATERIAL SHALL BE CONSIDERED AS MATERIAL WHICH IS NOT SUITABLE FOR THE SUPPORT OF PAVEMENT, BUILDING, AND OR LOAD BEARING STRUCTURES AS DETERMINED BY THE SOILS ENGINEER. THE DECISION TO REMOVE SUCH MATERIAL, AND TO WHAT EXTENT, SHALL BE MADE BY A SOILS ENGINEER WITH THE CONCURRENCE OF THE OWNER.

33. THE QUANTITIES AS SHOWN IN THE ENGINEER'S "QUANTITY ESTIMATE" ARE THOSE ESTIMATED BY THE ENGINEER AND ARE PROVIDED SOLELY FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR, BY CHOOSING TO UTILIZE THESE QUANTITIES IN THE PREPARATION OF HIS "LUMP SUM" BID, ALSO ACCEPTS THEIR ACCURACY. THE CONTRACTOR IS THEREFORE ENCOURAGED TO MAKE HIS OWN INDEPENDENT EARTHWORK CALCULATION, AND TO VISIT THE SITE PRIOR TO THE PREPARATION OF HIS BID.

34. CONDUIT TO BE PROVIDED UNDER PAVEMENT FOR ALL SERVICE UTILITIES SUCH AS, BUT NOT LIMITED TO GAS, ELECTRIC, TELEPHONE, AND CABLE AS DEEMED NECESSARY BY THE OWNER. ALL CONDUIT SHALL MEET UTILITY COMPANY SPECIFICATIONS. CONDUIT SHOWN HEREIN IS APPROXIMATE IN SIZE AND LOCATION. ALL SPECIFICATIONS SHALL BE CONFIRMED WITH THE UTILITY COMPANY PRIOR TO INSTALLATION, TELEPHONE, AND CABLE AS DEEMED NECESSARY BY THE OWNER. ALL CONDUIT SHALL MEET UTILITY COMPANY SPECIFICATIONS. CONDUIT SHOWN HEREIN IS APPROXIMATE IN SIZE AND LOCATION. ALL SPECIFICATIONS SHALL BE CONFIRMED WITH THE UTILITY COMPANY PRIOR TO INSTALLATION.

## EARTHWORK IMPROVEMENTS

### TOPSOIL EXCAVATION INCLUDES:

1. EXCAVATION OF TOPSOIL AND OTHER STRUCTURALLY UNSUITABLE MATERIALS WITHIN THOSE AREAS THAT WILL REQUIRE EARTH EXCAVATION OR COMPACTED EARTH FILL MATERIAL, IN ORDER TO ACHIEVE THE PLAN SUB GRADE ELEVATIONS.

2. PLACEMENT OF THE EXCAVATED MATERIAL IN OWNER DESIGNATED AREAS FOR FUTURE USE WITHIN AREAS TO BE LANDSCAPED, AND THOSE AREAS NOT REQUIRING STRUCTURAL FILL MATERIAL.

3. COMPACTION OF THE EXCAVATED MATERIAL WHERE PLACED IN AREAS NOT REQUIRING STRUCTURAL FILL MATERIAL, SHALL BE MODERATE.

4. EXCESS MATERIALS IF NOT UTILIZED AS FILL OR IF NOT STOCKPILED FOR FUTURE LANDSCAPING, SHALL BE COMPLETELY REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF BY THE CONTRACTOR.

### EARTH EXCAVATION INCLUDES:

1. EXCAVATION OF EARTH AND OTHER MATERIALS ARE SUITABLE FOR USE AS STRUCTURAL FILL. THE EXCAVATION SHALL BE TO WITHIN THE TOLERANCE OF 0.3 FEET (+/-) OF THE PLAN SUBGRADE ELEVATIONS. THE (+/-) TOLERANCE WITHIN PAVEMENT AREAS SHALL BE SUCH THAT THE EARTH MATERIAL SHALL "BALANCE" AS PART OF THE FINE GRADING OPERATION.

2. PLACEMENT OF THE EARTH AND OTHER SUITABLE MATERIALS SHALL BE WITHIN THOSE AREAS REQUIRING STRUCTURAL FILL IN ORDER TO ACHIEVE THE PLAN SUBGRADE ELEVATIONS TO WITHIN A TOLERANCE OF 0.3 FEET (+/-). THE MATERIAL SHALL BE PLACED (8) INCHES IN THICKNESS, AND THE WATER CONTENT SHALL BE ADJUSTED IN ORDER TO ACHIEVE THE REQUIRED COMPACTION. EARTH MATERIAL MAY BE PLACED WITHIN THOSE PORTIONS OF THE BUILDING SITE NOT REQUIRING STRUCTURAL FILL, TO WITHIN SIX (6) INCHES OF THE PLAN FINISHED GRADE ELEVATION. IN AREAS REQUIRING STRUCTURAL FILL, HOWEVER, THE EARTH MATERIAL SHALL NOT BE PLACED OVER TOPSOIL OR OTHER UNSUITABLE MATERIALS UNLESS SPECIFICALLY DIRECTED BY A SOILS ENGINEER WITH THE CONCUENRE OF THE OWNER.

3. COMPACTION OF THE EARTH AND OTHER SUITABLE MATERIALS, SHALL BE TO AT LEAST 95% OF THE STANDARD PROCTOR DRY WEIGHT, ASTM 698 WITHIN PROPOSED PAVEMENT AND BUILDING AREAS. MODERATE COMPACTION IS REQUIRED ELSEWHERE.

4. EXCESS MATERIALS IF NOT UTILIZED AS FILL, SHALL BE COMPLETELY REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF BY THE CONTRACTORS.

### GENERAL GRADING/CONTRACTOR SHALL:

1. MAINTAIN PROPER SITE DRAINAGE AT ALL TIMES DURING THE COURSE OF CONSTRUCTION, AND PREVENT STORM WATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS.

2. SPREAD AND COMPACT UNIFORMLY TO THE DEGREE SPECIFIED ALL EXCESS TRENCH SPOIL AFTER COMPLETION OF THE UNDERGROUND IMPROVEMENTS.

3. SCARIFY AND COMPACT TO THE DEGREE SPECIFIED THE UPPER TWELVE (12) INCHES OF THE SUITABLE SUBGRADE MATERIAL IN ALL AREAS THAT MAY BE SOFT DUE TO EXCESS MOISTURE CONTENT. THIS APPLIES TO CUT AREAS AS WELL AS FILL AREAS.

4. PROVIDE WATER TO ADD TO DRY MATERIAL IN ORDER TO ADJUST THE MOISTURE CONTENT FOR THE PURPOSE OF ACHIEVING THE SPECIFIED COMPACTION.

5. BE RESPONSIBLE FOR IMPLEMENTATION OF THE "SOIL EROSION AND SEDIMENTATION CONTROL MEASURES" AS ASSIGNED TO THE GRADING CONTRACTOR ON THE ENGINEERING PLAN.

6. GRADE PUBLIC UTILITY EASEMENTS TO MEET THE REQUIREMENTS OF THE LOCAL PUBLIC UTILITY COMPANIES.

### TESTING AND FINAL ACCEPTANCE

1. THE CONTRACTOR SHALL PROVIDE AS A MINIMUM, A FULLY LOADED SIX-WHEEL TRUCK FOR PROOF ROLLING THE PAVEMENT SUBGRADE PRIOR TO THE PLACEMENT OF THE CURB AND GUTTER.

2. SPECIFIC COMPACTION TESTING MAY BE REQUIRED BY THE OWNER IN SELECTED FILL AREAS. THE CONTRACTOR SHALL BEAR THE COST OF ANY COMPACTION TESTING WHICH DOES NOT MEET SPECIFICATION AS WELL AS THE RESPONSIBILITY AND COST FOR THE NECESSARY CORRECTIONS.

3. APPROVAL OF THE PAVEMENT SUBGRADE BY THE OWNER SHALL BE REQUIRED PRIOR TO THE PLACEMENT OF THE PAVEMENT MATERIALS.

### METHOD OF MEASUREMENT

1. AS-BUILT MEASUREMENTS OF EARTHWORK FOR THE PURPOSE OF PAYMENT SHALL NOT APPLY. THE QUANTITIES SHOWN IN THE ENGINEER'S "QUANTITY ESTIMATE" SHALL BE UTILIZED UNLESS SAID QUANTITIES ARE ADJUSTED BY MUTUAL CONSENT BY THE OWNER AND CONTRACTOR PRIOR TO THE SIGNING AND ACCEPTANCE OF THE CONTRACT.

2. THE QUANTITIES AS SHOWN IN THE ENGINEER'S "QUANTITY ESTIMATE" ARE THOSE ESTIMATED BY THE ENGINEER AND ARE PROVIDED SOLELY FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR, BY CHOOSING TO UTILIZE THESE QUANTITIES IN THE PREPARATION OF HIS "LUMP SUM" BID, ALSO ACCEPTS THEIR ACCURACY. THE CONTRACTOR IS THEREFORE ENCOURAGED TO MAKE HIS OWN INDEPENDENT EARTHWORK CALCULATION, AND TO VISIT THE SITE PRIOR TO THE PREPARATION OF HIS BID.

3. PRIOR TO THE REMOVAL OF UNSUITABLE MATERIAL, THE CONTRACTOR SHALL NOTIFY THE OWNER FOR AUTHORIZATION TO REMOVE SAID MATERIAL. UPON AUTHORIZATION AND REMOVAL, THE UNSUITABLE MATERIAL SHALL BE FIELD MEASURED BY THE ENGINEER IN PLACE.

### EROSION CONTROL

EROSION CONTROL MEASURES SHALL CONFORM TO "THE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL IN NORTHEASTERN ILLINOIS" LATEST EDITION, AND FURTHER MEASURES AS DEEMED NECESSARY. TEMPORARY EROSION CONTROL MEASURES, INCLUDING OR OTHER NONVALENT COVER SHALL BE USED TO PROTECT AREAS EXPOSED DURING DEVELOPMENT. PERMANENT SEEDING AREAS SHALL RECEIVE 16 LBS/ACRE CREEPING RED FESCUE AND 68 LBS/ACRE KENTUCKY BLUEGRASS. STRAW BALES SHALL BE SPREAD AT RATE OF TWO BALES/ACRE IN ALL PERMANENT SEEDING AREAS. FERTILIZER SHOULD BE APPLIED PRIOR TO SEEDING AT THE FOLLOWING RATES:

NITROGEN 130 LBS/ACRE  
PHOSPHORUS 130 LBS/ACRE  
POTASSIUM 130 LBS/ACRE

### DOWNERS GROVE SANITARY DISTRICT

1. MATERIAL SHALL BE:

A) POLYVINYL CHLORIDE PIPE (PVC) WITH A SDR 26, WHICH SHALL MEET OR EXCEED THE PERFORMANCE REQUIREMENTS OF ASTM D2241, 160 PSF PRESSURE PIPE PUSH-ON BELL AND SPOUT TYPE WITH RUBBER RING SEAL GASKET ASTM D3139, FOR CONSTRUCTION AND INSTALLATION.

B) DUCTILE IRON SEWER PIPE (DIP), WHERE INDICATED ON THE PLANS, WHICH SHALL MEET OR EXCEED THE PERFORMANCE REQUIREMENTS OF ANSI A21.51, CLASS 52 W/ 1/2" SEWER GRIFF (CEMENT LINED AND FUSED CALCIUM ALUMINATE MORTAR). FOR FURTHER INFORMATION REGARDING SPECIFICATIONS, PLEASE CONTACT MR. STEVE KELLY OF GREFIN PIPE PRODUCTS COMPANY AT (847) 293-9921.

2. JOINTS SHALL BE:

A) FOR PVC, FLEXIBLE ELASTOMERIC SEALS PER ASTM D 3139.

B) FOR DIP; PUSH-ON (BELL-TIE) PER AWWA C111 AND C600.

3. BEDDING SHALL BE AS DETAILED ON THE ENGINEERING PLANS. (ASTM D-2321)

4. MINIMUM COVER REQUIREMENTS SHALL BE 5' FOR PUBLIC SEWER MAINS, 4' MINIMUM FOR BUILDING SANITARY SERVICES.

5. SLOPE FOR A 6 INCH DIAMETER PIPE SHALL BE A MINIMUM 1.00%, FOR A 8 INCH DIAMETER PIPE SHALL BE A MINIMUM OF 0.43%, FOR A 10 INCH DIAMETER PIPE SHALL BE A MINIMUM OF 0.30%.

6. WYES SHALL BE PROVIDED ON THE NEW SANITARY SEWERS FOR PROPOSED BUILDING SERVICES. ALL CONNECTIONS TO EXISTING SANITARY SEWERS SHALL BE MADE BY MACHINE TAP. THE CONNECTION SHALL BE MADE WITH A GENCOED SEALTITE SEWER SADDLE (MODEL S).

7. "FLEX SEAL" NON-SHEAR COUPLINGS (WITH STAINLESS STEEL SHEAR RING) SHALL BE USED WHEN JOINING PIPES OF DISSIMILAR MATERIALS OR SIZES.

8. SIZES SHALL BE AS INDICATED ON THE ENGINEERING PLAN.

9. ALL SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DOWNERS GROVE SANITARY DISTRICT STANDARD SPECIFICATIONS AND WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS AS ADOPTED MAY 1996.

## PAVING IMPROVEMENTS

1. THE GRADING SHALL BE COMPLETED PRIOR TO THE CONSTRUCTION OF THE CURB AND GUTTER AND THE PLACEMENT OF THE BASE MATERIAL. THE STREETS SHALL BE FINE GRADED TO WITHIN 0.1 FEET +/- OF THE FINAL SUBGRADE ELEVATION, TO A POINT TWO (2) FEET BEYOND THE BACK OF THE PROPOSED CURB.

2. CURB AND GUTTER SHALL BE THE TYPE AS DETAILED ON THE ENGINEERING PLANS. THE CURB SHALL BE BACKFILLED AFTER THEIR CONSTRUCTION PRIOR TO THE PLACEMENT OF THE BASE COURSE.

3. PAVEMENT MATERIALS SHALL BE AS DETAILED ON THE ENGINEERING PLANS. THICKNESSES SPECIFIED SHALL BE CONSIDERED TO BE THE MINIMUM COMPACTED THICKNESS.

4. THE PAVING CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:

A. REPAIR ANY BASE COURSE AND BINDER COURSE FAILURES PRIOR TO THE INSTALLATION OF THE FINAL BITUMINOUS CONCRETE SURFACE COURSE.

B. SWEEP CLEAN THE BINDER COURSE PRIOR TO THE INSTALLATION OF THE FINAL BITUMINOUS CONCRETE SURFACE COURSE. EXCESSIVE CLEANING OF THE BINDER COURSE THAT MAY BE REQUIRED, AND IS NOT THE FAULT OF THE PAVING CONTRACTOR, SHALL BE PAID FOR ON A TIME AND MATERIAL BASIS BY PRIOR AGREEMENT WITH THE OWNER.

### TESTING AND FINAL ACCEPTANCE

1. PRIOR TO PLACEMENT OF THE BASE COURSE, THE SUBGRADE MUST BE APPROVED BY THE LOCAL JURISDICTIONAL AUTHORITY. (SEE "TESTING AND FINAL ACCEPTANCE FOR EARTHWORK").

2. PRIOR TO PLACEMENT OF THE BITUMINOUS CONCRETE SURFACE COURSE, THE CONTRACTOR, IF REQUESTED TO BY THE OWNER, SHALL OBTAIN SPECIMENS OF THE BINDER COURSE WITH A CORE DRILL WHERE DIRECTED BY THE ENGINEER, FOR THE PURPOSE OF THICKNESS VERIFICATION. CORING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF ART.406.16 OF THE STANDARD SPECIFICATION ENTITLED "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". THE COST FOR OBTAINING CORES WHICH ARE LESS THAN THE MINIMUM THICKNESS SPECIFIED SHALL BE BORNE BY THE CONTRACTOR. THE COST FOR OBTAINING CORES WHICH MEET OR EXCEED THE SPECIFICATION SHALL BE BORNE BY THE OWNER.

3. DEFICIENCIES IN THE BITUMINOUS CONCRETE BINDER COURSE SHALL BE ADJUSTED FOR BY INCREASING THE PLAN THICKNESS OF THE SURFACE COURSE WITH NO ADDITIONAL COST TO THE OWNER.

4. FINAL ACCEPTANCE OF THE TOTAL PAVEMENT INSTALLATION SHALL BE SUBJECT TO THE TESTING AND CHECKING REQUIREMENTS CITED ABOVE.

5. WALKS SHALL BE P.C. CONCRETE (3600 PSI) 5' WIDE OR AS SPECIFIED IN THE PLANS AND A THICKNESS NOT LESS THAN 5"; EXPANSION JOINTS AT 50' INTERVALS; W/ CONTRACTION JOINTS EVERY 5'; BEDDING SHALL BE C-6 P" MINIMUM DEPTH. NO REINFORCING STEEL SHALL BE PLACED WITHIN A PUBLIC SIDEWALK WITHOUT SPECIAL PERMISSION OF THE VILLAGE INSPECTOR, INCLUDING UTILITY TRENCH CROSSINGS.

### METHOD OF MEASUREMENT

1. CURB AND GUTTER, AND BASE COURSE SHALL BE MEASURED IN THE FIELD BY THE CONTRACTOR. THE QUANTITIES SHALL BE SUBMITTED TO THE ENGINEER FOR VERIFICATION.

2. WHEN REQUESTED, DOCUMENTATION FOR THE INSTALLED BASE COURSE, BITUMINOUS CONCRETE BINDER, AND SURFACE COURSE, SHALL BE SUBMITTED TO THE ENGINEER FOR VERIFICATION. DEFICIENCIES IN TOTAL BITUMINOUS CONCRETE PAVEMENT THICKNESS SHALL BE ADJUSTED FOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE JURISDICTIONAL AUTHORITY.

3. SCARIFY AND COMPACT TO THE DEGREE SPECIFIED THE UPPER TWELVE (12) INCHES OF THE SUITABLE SUBGRADE MATERIAL IN ALL AREAS THAT MAY BE SOFT DUE TO EXCESS MOISTURE CONTENT. THIS APPLIES TO CUT AREAS AS WELL AS FILL AREAS.

4. PROVIDE WATER TO ADD TO DRY MATERIAL IN ORDER TO ADJUST THE MOISTURE CONTENT FOR THE PURPOSE OF ACHIEVING THE SPECIFIED COMPACTION.

5. BE RESPONSIBLE FOR IMPLEMENTATION OF THE "SOIL EROSION AND SEDIMENTATION CONTROL MEASURES" AS ASSIGNED TO THE GRADING CONTRACTOR ON THE ENGINEERING PLAN.

6. GRADE PUBLIC UTILITY EASEMENTS TO MEET THE REQUIREMENTS OF THE LOCAL PUBLIC UTILITY COMPANIES.

7. SCARIFY AND COMPACT TO THE DEGREE SPECIFIED THE UPPER TWELVE (12) INCHES OF THE SUITABLE SUBGRADE MATERIAL IN ALL AREAS THAT MAY BE SOFT DUE TO EXCESS MOISTURE CONTENT. THIS APPLIES TO CUT AREAS AS WELL AS FILL AREAS.

8. PROVIDE WATER TO ADD TO DRY MATERIAL IN ORDER TO ADJUST THE MOISTURE CONTENT FOR THE PURPOSE OF ACHIEVING THE SPECIFIED COMPACTION.

9. BE RESPONSIBLE FOR IMPLEMENTATION OF THE "SOIL EROSION AND SEDIMENTATION CONTROL MEASURES" AS ASSIGNED TO THE GRADING CONTRACTOR ON THE ENGINEERING PLAN.

10. GRADE PUBLIC UTILITY EASEMENTS TO MEET THE REQUIREMENTS OF THE LOCAL PUBLIC UTILITY COMPANIES.

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12. PROVIDE WATER TO ADD TO DRY MATERIAL IN ORDER TO ADJUST THE MOISTURE CONTENT FOR THE PURPOSE OF ACHIEVING THE SPECIFIED COMPACTION.

13. BE RESPONSIBLE FOR IMPLEMENTATION OF THE "SOIL EROSION AND SEDIMENTATION CONTROL MEASURES" AS ASSIGNED TO THE GRADING CONTRACTOR ON THE ENGINEERING PLAN.

14. GRADE PUBLIC UTILITY EASEMENTS TO MEET THE REQUIREMENTS OF THE LOCAL PUBLIC UTILITY COMPANIES.

15. SCARIFY AND COMPACT TO THE DEGREE SPECIFIED THE UPPER TWELVE (12) INCHES OF THE SUITABLE SUBGRADE MATERIAL IN ALL AREAS THAT MAY BE SOFT DUE TO EXCESS MOISTURE CONTENT. THIS APPLIES TO CUT AREAS AS WELL AS FILL AREAS.

16. PROVIDE WATER TO ADD TO DRY MATERIAL IN ORDER TO ADJUST THE MOISTURE CONTENT FOR THE PURPOSE OF ACHIEVING THE SPECIFIED COMPACTION.

17. BE RESPONSIBLE FOR IMPLEMENTATION OF THE "SOIL EROSION AND SEDIMENTATION CONTROL MEASURES" AS ASSIGNED TO THE GRADING CONTRACTOR ON THE ENGINEERING PLAN.

18. GRADE PUBLIC UTILITY EASEMENTS TO MEET THE REQUIREMENTS OF THE LOCAL PUBLIC UTILITY COMPANIES.

19. SCARIFY AND COMPACT TO THE DEGREE SPECIFIED THE UPPER TWELVE (12) INCHES OF THE SUITABLE SUBGRADE MATERIAL IN ALL AREAS THAT MAY BE SOFT DUE TO EXCESS MOISTURE CONTENT. THIS APPLIES TO CUT AREAS AS WELL AS FILL AREAS.

20. PROVIDE WATER TO ADD TO DRY MATERIAL IN ORDER TO ADJUST THE MOISTURE CONTENT FOR THE PURPOSE OF ACHIEVING THE SPECIFIED COMPACTION.

21. BE RESPONSIBLE FOR IMPLEMENTATION OF THE "SOIL EROSION AND SEDIMENTATION CONTROL MEASURES" AS ASSIGNED TO THE GRADING CONTRACTOR ON THE ENGINEERING PLAN.

22. GRADE PUBLIC UTILITY EASEMENTS TO MEET THE REQUIREMENTS OF THE LOCAL PUBLIC UTILITY COMPANIES.

23. SCARIFY AND COMPACT TO THE DEGREE SPECIFIED THE UPPER TWELVE (12) INCHES OF THE SUITABLE SUBGRADE MATERIAL IN ALL AREAS THAT MAY BE SOFT DUE TO EXCESS MOISTURE CONTENT. THIS APPLIES TO CUT AREAS AS WELL AS FILL AREAS.

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25. BE RESPONSIBLE FOR IMPLEMENTATION OF THE "SOIL EROSION AND SEDIMENTATION CONTROL MEASURES" AS ASSIGNED TO THE GRADING CONTRACTOR ON THE ENGINEERING PLAN.

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