

GENERAL CONSTRUCTION NOTES

The Town of



Public Works & Engineering Services

16801 Westgrove Road
Addison, TX 75001

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The following General Notes shall apply to all construction projects, public or private. The Owner’s Engineer may supplement the General Notes with project-specific notes with Town approval.

1. GENERAL NOTES FOR ALL CONSTRUCTION ACTIVITIES

- 1.1. ALL CONSTRUCTION, TESTING, AND MATERIALS SHALL BE IN ACCORDANCE WITH THE TOWN'S CURRENT STANDARDS, DETAILS, AND SPECIFICATIONS. IF NOT EXPLICITLY SPECIFIED IN TOWN DOCUMENTS, NCTCOG OR THE APPROPRIATE GOVERNING BODY'S, STANDARDS AND DETAILS SHALL REGULATE CONSTRUCTION, TESTING, AND MATERIALS.
- 1.2. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTACT PUBLIC WORKS & ENGINEERING SERVICES DEPARTMENT FOR A PERMIT TO WORK WITHIN TOWN ROW.
- 1.3. ALL SHOP DRAWINGS, WORKING DRAWINGS OR OTHER DOCUMENTS WHICH REQUIRE REVIEW BY THE TOWN, SHALL BE SUBMITTED BY THE CONTRACTOR SUFFICIENTLY IN ADVANCE OF SCHEDULED CONSTRUCTION TO ALLOW NO LESS THAN 21 CALENDAR DAYS FOR REVIEW AND RESPONSE BY THE TOWN.
- 1.4. CONTRACTOR SHALL NOTIFY THE TOWN AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
- 1.5. CONTRACTORS ARE ALLOWED TO MAKE CONNECTIONS TO THE TOWN WATER SYSTEM BY OPENING AN ACCOUNT THROUGH THE ADDISON FINANCE DEPARTMENT AND RENTING A FIRE HYDRANT METER. THE COMPANY OR INDIVIDUAL IS SOLELY RESPONSIBLE FOR THE COST, MAINTENANCE, PROPER USE, AND SECURITY OF THE RENTAL EQUIPMENT. THE COMPANY OR INDIVIDUAL IS ALSO RESPONSIBLE FOR THE COST OF THE WATER USED.
- 1.6. CONTRACTOR MUST KEEP AVAILABLE ONSITE, AT ALL TIMES, APPROVED CONSTRUCTION PLANS AND COPIES OF ANY/ALL REQUIRED PERMITS ALONG WITH THE APPROPRIATE VERSIONS OF THE FOLLOWING APPLICABLE REFERENCES:
 - 1.6.1. TOWN OF ADDISON ENGINEERING STANDARDS & DETAILS
 - 1.6.2. NCTCOG STANDARDS & SPECIFICATIONS
 - 1.6.3. TCEQ STANDARDS & SPECIFICATIONS
 - 1.6.4. TXDOT SPECIFICATIONS & STANDARD DRAWINGS, AS APPLICABLE.
- 1.7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED CONSTRUCTION SURVEYING AND STAKING AND SHALL NOTIFY THE DESIGN ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH ANY WORK.
- 1.8. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL SURVEY MARKERS INCLUDING IRON RODS, PROPERTY CORNERS, OR SURVEY MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION AND OUTSIDE ROW DURING CONSTRUCTION. ANY SURVEY MARKERS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE TOWN.
- 1.9. TESTING AND INSPECTION OF MATERIALS SHALL BE PERFORMED BY A COMMERCIAL TESTING LABORATORY SPECIFIED BY OR APPROVED BY THE TOWN. CONTRACTOR SHALL FURNISH MATERIALS OR SPECIMENS FOR TESTING AND SHALL FURNISH SUITABLE EVIDENCE THAT THE MATERIALS PROPOSED TO BE INCORPORATED INTO

THE WORK ARE IN ACCORDANCE WITH THE SPECIFICATIONS. COPIES OF TESTING REPORTS SHALL BE FURNISHED TO THE TOWN IMMEDIATELY UPON RECEIPT BY THE CONTRACTOR.

- 1.10. FOR PUBLIC PROJECTS, CONTRACTOR SHALL PROVIDE A CONSTRUCTION SCHEDULE AND WEEKLY PROGRESS REPORTS.
- 1.11. CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS AND DRIVEWAYS ADJACENT TO THE PROJECT FREE OF DIRT, MUD, AND DEBRIS AT ALL TIMES. CONTRACTOR SHALL CLEAN UP AND REMOVE ALL LOOSE MATERIAL RESULTING FROM CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST.
- 1.12. THE EXISTENCE AND LOCATIONS OF THE PUBLIC AND FRANCHISE UTILITIES SHOWN ON THE DRAWINGS WERE OBTAINED FROM AVAILABLE RECORDS AND ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE DEPTH AND LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATING, TRENCHING, OR DRILLING AND SHALL BE REQUIRED TO TAKE ANY PRECAUTIONARY MEASURES TO PROTECT ALL LINES SHOWN AND / OR ANY OTHER UNDERGROUND UTILITIES NOT OF RECORD OR NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL PUBLIC AGENCIES AND FRANCHISE UTILITIES 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR MAY BE REQUIRED EXPOSE THESE FACILITIES AT NO COST TO THE TOWN. THE CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGES TO UTILITIES IF THE DAMAGE IS CAUSED BY NEGLIGENCE OR FAILURE TO HAVE LOCATES PERFORMED.
- 1.13. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES OR ADJACENT PROPERTIES DURING CONSTRUCTION. ANY REMOVAL OR DAMAGE TO EXISTING FACILITIES SHALL BE REPLACED OR REPAIRED TO EQUAL OR BETTER CONDITION BY THE CONTRACTOR.
- 1.14. CONTRACTOR SHALL NOT STORE MATERIALS, EQUIPMENT OR OTHER CONSTRUCTION ITEMS ON ADJACENT PROPERTIES OR RIGHT-OF-WAY WITHOUT THE PRIOR WRITTEN CONSENT OF THE PROPERTY OWNER AND/OR THE TOWN, AS APPLICABLE.
- 1.15. TEMPORARY FENCING SHALL BE INSTALLED PRIOR TO THE REMOVAL OF EXISTING FENCING. TEMPORARY FENCING SHALL BE REMOVED AFTER PROPOSED FENCING IS APPROVED BY THE TOWN. ALL TEMPORARY AND PROPOSED FENCING LOCATIONS SHALL BE SUBJECT TO FIELD REVISIONS AS DIRECTED BY THE TOWN.
- 1.16. UNUSABLE EXCAVATED MATERIAL, OR CONSTRUCTION DEBRIS SHALL BE IMMEDIATELY REMOVED AND DISPOSED OF OFFSITE AT AN APPROVED DISPOSAL FACILITY BY THE CONTRACTOR AT HIS EXPENSE.
- 1.17. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN A NEAT AND ACCURATE RECORD OF CONSTRUCTION FOR THE TOWN'S RECORDS.

2. GENERAL NOTES FOR PAVING SYSTEMS

2.1. ALL PAVING CONSTRUCTION, TESTING, AND MATERIALS, INCLUDING CONCRETE, REINFORCEMENT, JOINTING, AND SUBGRADE PREPARATION AND TREATMENT SHALL BE IN ACCORDANCE WITH THE TOWN'S CURRENT STANDARDS, DETAILS, AND CONSTRUCTION SPECIFICATIONS UNLESS OTHERWISE NOTES.

2.2. NO EARTHWORK, LIME APPLICATION, OR OTHER PREPARATION OF THE SUBGRADE FOR PAVING OF STREETS, ALLEYS, OR FIRE LANES SHALL BE INITIATED WITHOUT AUTHORIZATION FROM THE TOWN. THE TOWN WILL AUTHORIZE THE SUBGRADE ENGINEERING STANDARDS WORK IN PREPARATION FOR PAVING AFTER UTILITY TRENCH BACKFILL TESTING HAS BEEN COMPLETED AND VERIFIED TO MEET THE TOWN REQUIREMENTS.

2.3. SUBGRADE

2.3.1. SHALL EXTEND 12" MIN. BEHIND THE BACK OF CURB.

2.3.2. SUBGRADE UNDER ALL PAVEMENT SHALL BE 6" THICK AND SHALL BE STABILIZED HTH AT LEAST 30 LBS. PER SQ. YD. HYDRATED LIME, COMPACTED TO A DENSITY NOT LESS THAN 95 PERCENT.

2.3.3. LABORATORY TESTS MUST BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT FOR APPROVAL TO DETERMINE AMOUNT OF LIME REQUIRED. LABORATORY TEST MAY BE WAIVED PROVIDED AT LEAST 36 LBS. OF LIME PER SQ. YD. IS USED. SEE NCTCOG ITEM 301.2 "LIME TREATMENT".

2.3.4. FLEXIBLE BASE (CRUSHED STONE/CONCRETE) PER NCTCOG ITEM 301.5 MAY BE SUBSTITUTED FOR LIME TREATMENT WITH THE APPROVAL OF THE TOWN ENGINEER.

2.4. REINFORCING STEEL

2.4.1. BAR LAPS SHALL BE THIRTY DIAMETERS.

2.4.2. REINFORCING STEEL SHALL BE #3 REBAR (3/8') ON 18' CENTERS FOR 8" OR LESS PAVEMENT THICKNESS, #4 FOR 10" OR MORE PAVEMENT THICKNESS.

2.4.3. REBAR SHALL BE SUPPORTED BY BAR CHAIRS OR OTHER DEVICES APPROVED BY TOWN ENGINEER.

2.4.4. NO TRAFFIC ON FINISHED SUBGRADE SHALL BE PERMITTED AFTER REINFORCING STEEL IS INSTALLED ABOVE SUBGRADE. NO TRAFFIC SHALL BE PERMITTED BEFORE OR DURING THE PLACING OF CONCRETE.

2.5. CONCRETE PAVEMENT:

2.5.1. ALL CONCRETE STRENGTH AND MIX DESIGN SHALL BE AS SHOWN IN LATEST EDITION OF NCTCOG SECTION 303.3

2.5.2. CLASS P1 PAVEMENT : MACHINE FINISHED: A SLIP-FORM PAVING MACHINE SHALL BE USED FOR ALL PUBLIC STREETS AND ALLEYS UNLESS OTHERWISE APPROVED BY THE DIRECTOR OF PUBLIC WORKS & ENGINEERING SERVICES. MIN. 4000 PSI 28-DAY COMPRESSIVE STRENGTH.

- 2.5.3. CLASS P2 PAVEMENT : HAND FINISHED: HAND FINISHED PAVEMENT IS PERMITTED FOR TURN LANES, DECELERATION LANES, DRIVEWAY APPROACHES, OR PANEL REPLACEMENT OF PUBLIC STREETS OR ALLEYS. MIN. 4500 PSI 28-DAY COMPRESSIVE STRENGTH
- 2.5.4. MINIMUM PAVEMENT THICKNESS SHALL BE AS FOLLOWS:
- 2.5.4.1. MAJOR ARTERIAL - 10" CLASS "P1" OR "P2"
 - 2.5.4.2. MINOR ARTERIAL – 8" CLASS "P1" OR "P2"
 - 2.5.4.3. COMMERCIAL/ INDUSTRIAL COLLECTOR – 8" CLASS "P1" OR "P2"
 - 2.5.4.4. RESIDENTIAL COLLECTOR – 8" CLASS "P1" OR "P2"
 - 2.5.4.5. RESIDENTIAL LOCAL – 8" CLASS "P1" OR "P2"
 - 2.5.4.6. SIDEWALK AND BFR'S – 4" – CLASS "A"
 - 2.5.4.7. DRIVE APPROACH 8" – CLASS "P2"
 - 2.5.4.8. ALLEY – 6" CLASS "P1" OR "P2"
- 2.5.5. CONCRETE FOR ALLEY RETURNS AND DRIVEWAYS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS IDENTICAL TO THAT SPECIFIED FOR THE STREET PAVEMENT OR BASE WHEN BUILT AS COMPONENTS OF A CONCRETE PAVING PROJECTS. WHEN BUILT SEPARATELY, THE STRENGTH SHALL BE AS SPECIFIED ON THE CONSTRUCTION PLAN.
- 2.5.6. SPACING AND CONSTRUCTION OF JOINTS SHALL CONFORM TO TOWN OF ADDISON STANDARD CONSTRUCTION DETAILS.
- 2.5.7. CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL PEDESTRIAN WORK MEETS OR EXCEEDS THE CURRENT AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG), THE TEXAS ACCESSIBILITY STANDARDS (TAS), AND PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG). THE CONTRACTOR SHALL REMOVE AND REPLACE ANY CONSTRUCTED OR INSTALLED ITEMS NOT MEETING THE CURRENT ADAAG, TAS, & PROWAG REQUIREMENTS AT NO ADDITIONAL COST TO THE TOWN.
- 2.5.8. ALL MEDIANS AND PARKWAYS SHALL BE PROVIDED WITH GROUND COVER. TYPE OF GROUND COVER SHALL BE DETERMINED BY THE PARKS & RECREATION DEPARTMENT, OR SHALL BE RESTORED TO MATCH EXISTING PLANT MATERIALS IN EQUAL OR BETTER CONDITION. ALL TURF AREAS SHALL BE SOLID SOD, AND GROUND COVER SHALL BE MINIMUM ONE (1) GALLON PLANT MATERIAL.

3. GENERAL NOTES FOR WATER AND WASTEWATER SYSTEMS

- 3.1. ALL WATER AND WASTEWATER CONSTRUCTION, TESTING, AND MATERIALS SHALL BE IN ACCORDANCE WITH THE MORE RESTRICTIVE OF THE CURRENT TCEQ REGULATIONS OR THE TOWN'S CURRENT STANDARDS, DETAILS, AND SPECIFICATIONS, UNLESS OTHERWISE NOTED.
- 3.2. TRENCH SAFETY
 - 3.2.1. PRIVATE DEVELOPMENT: CONTRACTOR SHALL SUBMIT A TRENCH SAFETY PLAN TO THE DESIGN ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE PRE-CONSTRUCTION MEETING.
 - 3.2.2. PUBLIC PROJECTS : CONTRACTOR AND/OR DESIGN ENGINEER SHALL SUBMIT A TRENCH SAFETY PLAN AS PART OF THE CIVIL CONSTRUCTION DOCUMENTS PACKAGE.
- 3.3. CONTRACTOR SHALL NOT OPERATE ANY WATER VALVES THAT ARE PART OF THE ACTIVE TOWN OF ADDISON WATER SYSTEM. CONTACT THE TOWN'S PUBLIC WORKS & ENGINEERING SERVICES TO REQUEST VALVE CHANGES.
- 3.4. ANY EXISTING FIRE HYDRANT THAT IS TO BE MODIFIED AND HAS A DATE THAT EXCEEDS 8 YEARS IN AGE SHALL BE REPLACED AND THE OLD FIRE HYDRANT RETURNED TO THE PUBLIC WORKS & ENGINEERING SERVICES BY THE CONTRACTOR AT HIS EXPENSE.
- 3.5. ANY EXISTING MANHOLE WITH AN OPENING SMALLER THAN 30" DIAMETER THAT IS MODIFIED SHALL HAVE THE CONE SECTION, RING, AND COVER REPLACED WITH A MINIMUM OF 30" DIAMETER CONE SECTION, RING, AND COVER BY THE CONTRACTOR AT HIS EXPENSE.

4. GENERAL NOTES FOR STORM DRAIN SYSTEMS

- 4.1. ALL STORM DRAIN CONSTRUCTION, TESTING, AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF NCTCOG'S SPECIFICATIONS AND DETAILS, AND THE TOWN'S CURRENT STANDARDS, DETAILS, AND SPECIFICATIONS UNLESS OTHERWISE NOTED.
- 4.2. TRENCH SAFETY
 - 4.2.1. PRIVATE DEVELOPMENT: CONTRACTOR SHALL SUBMIT A TRENCH SAFETY PLAN TO THE DESIGN ENGINEER FOR REVIEW AND APPROVAL PRIOR TO THE PRE-CONSTRUCTION MEETING.
 - 4.2.2. PUBLIC PROJECTS : CONTRACTOR AND/OR DESIGN ENGINEER SHALL SUBMIT A TRENCH SAFETY PLAN AS PART OF THE CIVIL CONSTRUCTION DOCUMENTS PACKAGE.
- 4.3. ALL CONCRETE DRAINAGE STRUCTURES SHALL BE MINIMUM CLASS C CONCRETE.
- 4.4. ALL CRUSHED STONE SHALL BE $\frac{3}{4}$ ", PASSING #4 SIEVE (GRADE 4).
- 4.5. ALL FIELD JOINTS WILL BE APPROVED BY THE TOWN ENGINEER IF NECESSARY. FIELD JOINTS SHALL BE WIPED ON THE INSIDE AND OUTSIDE AND PROVIDE FOR SMOOTH FLOW OF WATER.
- 4.6. RAMNECK COMPOUND OR APPROVED EQUAL SHALL BE USED FOR JOINT SEALS.
- 4.7. CLEANING & INSPECTION
 - 4.7.1. ALL STORM SEWER PIPE SHALL BE CAMERA INSPECTED AFTER THE INSTALLATION OF ALL PAVING AND UTILITIES AND PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
 - 4.7.2. CONTRACTOR SHOULD INSPECT ALL STORM DRAIN OUTFALLS NO EARLIER THAN ONE WEEK PRIOR TO FINAL INSPECTION AND REMOVE ALL SILT AND DEBRIS.

5. GENERAL NOTES FOR EROSION CONTROL

5.1. ALL OPERATORS AND/OR CONTRACTORS SHALL CONFORM TO THE TERMS & CONDITIONS OF THE TCEQ TPDES GENERAL PERMIT NO. 150000.

5.1.1. THE NOTICE OF INTENT (NOI), AS REQUIRED BY THE GENERAL PERMIT, MUST BE PROPERLY DISPLAYED ON THE SITE AT ALL TIMES BY EACH OPERATOR. A COPY OF THE NOI MUST BE PROVIDED TO THE PUBLIC WORKS & ENGINEERING SERVICES PRIOR TO START OF CONSTRUCTION.

5.1.2. ALL RELEASES OF REPORTABLE QUANTITIES OF HAZARDOUS SUBSTANCES SHALL BE REPORTED IMMEDIATELY TO THE FACILITY OPERATOR, EPA, AND TCEQ.

5.1.3. IF ANY CONTRACTOR SEES A VIOLATION BY AN OPERATOR OR ANOTHER CONTRACTOR, THAT OPERATOR OR CONTRACTOR IN VIOLATION SHALL BE NOTIFIED AS WELL AS THE FACILITY OPERATOR.

5.2. EROSION CONTROL DEVICES SHALL BE INSTALLED ON ALL PROJECTS PRIOR TO ANY SOIL DISTURBANCE AND SHALL BE MAINTAINED THROUGHOUT THE PROJECT IN A CONDITION ACCEPTABLE TO THE TOWN.

5.2.1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTROL AND LIMIT SILT AND SEIDMENT LEAVING THE SITE. SPECIFICALLY , THE CONTRACTOR SHALL PROTECT ALL PUBLIC STREETS, ALLEYS, STREAMS, AND STORM DRANAGE SYSTEMS FROM EROSION DEPOSITS.

5.2.1.1. QUALIFIED OPERATOR PERSONNEL MUST INSPECT THE SITE WEEKLY, AND WITHIN 24 HRS (BEFORE AND AFTER) A STORM EVEN OF 0.5 INCHES OR GREATER.

5.2.1.2. ACCUMULATED SILT DEPOSITS SHALL BE REMOVED FROM SILT FENCES AND HAY BALE DIKES WHEN SILT DEPTH REACHES THREE INCHES (3") OF 25% OF THE HEIGHT OF THE DEVICE (WHICHEVER IS LESS). THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER SO AS NOT TO CONTRIBUTE TO ADDITIONAL SILTATION.

5.2.2. THE CONTRACTOR SHALL ADD OR DELETE EROSION PROTECTION AT THE REQUEST AND DIRECTION OF THE OPERATOR OR TOWN.

5.2.3. MODIFICATIONS TO THE SWPPP SHALL BE IMPLEMENTED AND IN-PLACE WITHIN A SEVEN CALENDAR DAY PERIOD. ANY MAJOR MODIFICATIONS SHALL BE REVIEWED AND APPROVED BY THE DESIGN ENGINEER AND PUBLIC WORKS & ENGINEERING SERVICES PRIOR TO IMPLEMENTATION.

5.3. CONSTRUCTION ENTRANCES AND WASHOUTS

5.3.1. ASPHALT BAGS SHALL BE PLACED AT CONSTRUCTION ENTRANCES TO PREVENT CURB DAMAGE.

5.3.2. GEOTEXTILE FABRIC SHALL BE PLACED ON SUBGRADE PRIOR TO STONE PLACEMENT FOR CONSTRUCTION ENTRANCES.

5.3.3. NO EQUIPMENT SHALL BE CLEANED ON-SITE, OR OTHER LIQUIDS DEPOSITED AND ALLOWED TO FLOW OVERLAND OR SUBTERRANEAN WITHIN THE LIMITS OF

THE CRITICAL ROOT ZONE OF TREES THAT REMAIN ON SITE. THIS INCLUDES PAINT, OIL, SOLVENTS, ASPHALT, CONCRETE, CONCRETE EQUIPMENT WASH WATER, MORTAR OF SIMILAR MATERIALS.

5.4. WASTE DISPOSAL

5.4.1. CONTRACTOR SHALL PROVIDE WASTE DISPOSAL CONTAINERS ON THE SITE FOR DISPOSAL OF ALL NON-HAZARDOUS CONSTRUCTION WASTE MATERIALS. THE CONTAINERS SHALL BE HAULED TO THE APPROPRIATE DISPOSAL LOCATION BY THE CONTRACTOR.

5.4.2. ALL HAZARDOUS MATERIALS SHALL BE HANDLED AND DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

5.5. AFTER INSTALLATION OF PAVEMENT, FINAL LOT BENCHING, AND GENERAL CLEANUP, THE CONTRACTOR SHALL ESTABLISH GRASS GROUND COVER IN ALL STREET PARKWAYS, LOTS, AND ALL OTHER DISTURBED AREAS. SODDING SHALL BE DONE AS SPECIFIED BY THE MORE RESTRICTIVE OF CURRENT NCTCOG OR TOWN STANDARDS.

5.6. SILT FENCE NOTES.

5.6.1. POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. THE POST MUST BE EMBEDDED A MINIMUM OF 18". STEEL POSTS SHALL NOT BE USED TO INSTALL EROSION CONTROL MEASURES WITHIN TOWN ROW.

5.6.2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW.

5.6.2.1. THE TRENCH MUST BE A MINIMUM OF SIX INCHES (6") DEEP AND SIX INCHES (6") WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.

5.6.2.2. WHERE THE FENCE CANNOT BE TRENCHED IN (E.G. PAVEMENT), WEIGHT FABRIC FLAP WITH WASHED GRAVEL ON THE UPHILL SIDE TO PREVENT FLOW UNDER FENCE.

5.6.3. WIRE REINFORCEMENT SHALL BE USED ON ALL SILT FENCE USED FOR EROSION CONTROL. SILT FENCE SHALL BE SECURELY FASTENED TO EACH SUPPORT POST. THERE SHALL BE A SIX INCH (6") DOUBLE OVERLAP, SECURELY FASTENED, WHERE ENDS OF FABRIC MEET.

5.6.4. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

6. GENERAL NOTES FOR LANDSCAPING

- 6.1. ALL LANDSCAPING CONSTRUCTION, INSTALLATION, TESTING, AND MATERIALS SHALL BE IN ACCORDANCE WITH THE TOWN'S CURRENT STANDARDS, DETAILS, AND SPECIFICATIONS UNLESS OTHERWISE NOTED.
- 6.2. CONTRACTOR SHALL AVOID DAMAGE TO EXISTING TREES. WHEN NECESSARY, TREES AND SHRUB TRIMMING FOR CONSTRUCTION SHALL BE PERFORMED BY CERTIFIED TREE WORKER OR UNDER THE DIRECTION OF A REGISTERED LANDSCAPE ARCHITECT OR CERTIFIED ARBORIST.
- 6.3. CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING LANDSCAPE IRRIGATION SYSTEMS. DAMAGE TO EXISTING IRRIGATION SYSTEMS AND LANDSCAPE MATERIALS SHALL BE RESTORED TO EQUAL OR BETTER CONDITION AT NO COST TO TOWN.
- 6.4. EXCAVATION OR GRADE CHANGES BELOW THE DRIPLINE OF EXISTING TREES IS NOT ALLOWED UNLESS A TREE PROTECTION PLAN WHICH CONTAINS SPECIFIC INFORMATION ON THE ROOTS OF EACH TREE IS PROVIDED, AND APPROVED BY THE PARKS & RECREATION DEPARTMENT.
- 6.5. PRIOR TO OBTAINING A GRADING PERMIT OR SCHEDULING A PRE-CONSTRUCTION MEETING:
 - 6.5.1. WHERE TRANSPLANTING OR TREE REMOVAL IS REQUIRED, CONTRACTOR MUST APPLY FOR A TREE PERMIT. CONTACT PARKS & RECREATION DEPARTMENT FOR TREE REMOVAL PERMIT.
 - 6.5.2. ALL TREE MARKINGS AND PROTECTIVE FENCING MUST BE INSTALLED BY THE CONTRACTOR AND BE INSPECTED BY THE TOWN'S LANDSCAPE ARCHITECT.
 - 6.5.3. COORDINATE WITH PARKS DEPARTMENT ON ANY TREES THAT REQUIRE BEING TRANSPLANTED OR REMOVED FROM MEDIANS.
- 6.6. ALL TREES WHICH ARE TO REMAIN ON SITE SHALL BE PROTECTED WITH A 4' TALL BRIGHTLY COLORED PLASTIC FENCE PLACED AT THE DRIP LINE OF THE TREES.
- 6.7. TREES TO BE REMOVED MAY BE CHIPPED AND USED FOR MULCH ON SITE OR HAULED OFF-SITE. BURNING OF REMOVED TREES, STUMPS, OR FOLIAGE REQUIRES WRITTEN APPROVAL BY THE FIRE DEPARTMENT.
- 6.8. PLANT MATERIALS SHALL NOT IMPEDE OR OBSTRUCT VISION OR ROUTE OF TRAVEL FOR VEHICULAR, PEDESTRIAN, OR BICYCLE TRAFFIC ALONG TOWN RIGHT-OF-WAY, VISIBILITY EASEMENTS, SIDEWALKS OR OTHER EASEMENTS.
- 6.9. NO SIGNS, WIRES, OR OTHER ATTACHMENTS OTHER THAN THOSE OF A PROTECTIVE NATURE SHALL BE ATTACHED TO ANY TREE TO REMAIN ON SITE.
- 6.10. IF TOPSOIL IS TO BE ADDED TO A ROUGH GRADE, TILL 3 TO 4 INCHES DEEP, THEN ADD TOPSOIL FOR BETTER BINDING AND ELIMINATE LAYING.
- 6.11. SOD INSTALLATION
 - 6.11.1. SPRAY EXISTING WEEDS WITH NON-SELECTIVE HERBICIDE PRIOR TO SOD INSTALLATION.

- 6.11.2. ON PUBLIC PROJECTS, THE TOWN'S REPRESENTATIVE RESERVES THE RIGHT TO INSPECT SOD FARM TO SELECT SOD TO BE HARVESTED. INSPECTION OF TURFGRASS SOD BY THE TOWN'S REPRESENTATIVE MAY BE MADE AT THE GROWING SITE, BUT SUCH INSPECTION WILL NOT PRECLUDE REJECTIONS AFTER DELIVERY TO THE JOB SITE.
- 6.11.3. NO MORE TURFGRASS SOD SHALL BE DELIVERED TO THE JOB SITE ON ANY DAY THAN CAN BE PLACED AND WATERED ON THAT DAY.
- 6.11.4. THE IRRIGATION SYSTEM SHOULD BE FULLY OPERATIONAL AT THE SITE PRIOR TO INSTALLATION OF THE TURFGRASS SOD.
- 6.11.5. ANY TURFGRASS SOD SO REJECTED SHALL BE REMOVED FROM THE SITE IMMEDIATELY AND REPLACED WITH ACCEPTED TURFGRASS SOD.
- 6.11.6. CONTRACTOR SHALL PROVIDE OPTIMUM INSTALLATION TIME PERIOD FOR SOD. NO INSTALLATION ON FROZEN SOIL. NO HARVEST OF FROZEN SOD.
- 6.12. PLANTING TIME FOR MEDIANS IS MARCH TO SEPTEMBER. OUTSIDE OF THIS TIME FRAME THE MEDIAN SHALL BE STABILIZED.
- 6.13. ESCROW FOR THE REMOVAL OF TEMPORARY STABILIZATION AND INSTALLATION OF SOD PER SPEC.

7. GENERAL NOTES FOR IRRIGATION

- 7.1. ALL IRRIGATION CONSTRUCTION, INSTALLATION, TESTING, AND MATERIALS SHALL BE IN ACCORDANCE WITH THE TOWN'S CURRENT STANDARDS, DETAILS, AND SPECIFICATIONS UNLESS OTHERWISE NOTED.
- 7.2. A PERMIT FROM THE BUILDING INSPECTION DIVISION IS REQUIRED FOR EACH IRRIGATION SYSTEM.
- 7.3. CONTRACTOR SHALL NOTIFY THE PARKS AND RECREATION DEPARTMENT PRIOR TO ANY MODIFICATIONS TO THE EXISTING IRRIGATION SYSTEM.
- 7.4. CONTRACTOR SHALL CONTACT THE PARKS AND RECREATION DEPARTMENT TO COORDINATE WORK PRIOR TO COMMENCING WORK ON ANY EXISTING IRRIGATION AND PRIOR TO ANY INSTALLATION OF NEW IRRIGATION.
- 7.5. CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING LANDSCAPE IRRIGATION SYSTEMS. DAMAGE TO EXISTING IRRIGATION SYSTEMS AND LANDSCAPE MATERIALS SHALL BE RESTORED TO EQUAL OR BETTER CONDITION AT NO COST TO TOWN.
- 7.6. CONTRACTOR SHALL PROGRAM EACH CONTROLLER ZONE BASED ON SPRINKLER TYPE, PLANT VARIETY, SOIL CHARACTERISTIC, SLOPE AND SOLAR ORIENTATION AS DESIGNATED ON THE PLANS. THE CONTRACTOR SHALL COORDINATE WITH THE TOWN PARKS AND RECREATION DEPARTMENT FOR APPROVAL OF THE CONTROLLER SETTINGS.
- 7.7. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH FRANCHISE UTILITY PROVIDER TO PROVIDE POWER TO EACH IRRIGATION CONTROLLER. CONTRACTOR SHALL HAVE UNDERGROUND POWER LINES INSTALLED FROM POWER SOURCE UP TO THE CONTROLLER. CONTRACTOR SHALL MEET CONTROLLER SPECIFICATIONS FOR POWER REQUIREMENTS.
- 7.8. CONTRACTOR SHALL SET TOWN-SPECIFIED/APPROVED CONTROLLER TO ESTABLISH LANDSCAPE.

8. GENERAL NOTES FOR TRAFFIC CONTROL

- 8.1. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL TEMPORARY AND PERMANENT TRAFFIC CONTROL IN ACCORDANCE WITH THE MINIMUM REQUIREMENTS OF THE LATEST REVISION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) AND TXDOT BARRICADE AND CONSTRUCTION STANDARDS.
- 8.2. CONTRACTOR SHALL NOT IMPEDE TRAFFIC ON EXISTING STREETS, DRIVEWAYS, ALLEYS, OR FIRE LANES OPEN TO THE PUBLIC. IN THE EVENT THE CONSTRUCTION WORK REQUIRES THE CLOSURE OF AN EXISTING STREET, ALLEY, OR FIRE LANE, THE CONTRACTOR SHALL REQUEST THE ROAD CLOSURE THROUGH THE PUBLIC WORKS & ENGINEERING SERVICES A MINIMUM OF 72 HOURS IN ADVANCE OF THE REQUESTED CLOSURE. CLOSURES WILL NOT BE ALLOWED PRIOR TO 9:00 A.M. OR AFTER 3:30 P.M., MONDAY THROUGH FRIDAY UNLESS OTHERWISE APPROVED BY THE TOWN.

9. GENERAL NOTES FOR TRAFFIC SIGNALS AND STREET LIGHTING

- 9.1. ALL TRAFFIC SIGNAL AND STREET LIGHTING CONSTRUCTION, TESTING, AND MATERIALS SHALL BE IN ACCORDANCE WITH THE TOWN'S CURRENT STANDARDS, DETAILS, AND SPECIFICATIONS UNLESS OTHERWISE NOTED. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE MOST CURRENT NATIONAL ELECTRICAL CODE, TOWN AND TXDOT SPECIFICATIONS AND STANDARDS.
- 9.2. CONTRACTOR SHALL NOTIFY THE TRAFFIC DEPARTMENT AT LEAST 7 BUSINESS DAYS PRIOR TO ANY WORK, PROVIDE A CONSTRUCTION SCHEDULE AND WEEKLY PROGRESS REPORTS TO THE TRAFFIC DEPARTMENT, AND NOTIFY THE TRAFFIC DEPARTMENT AT LEAST 48 HOURS PRIOR TO SIGNAL TURN-ON.
- 9.3. CONTRACTOR SHALL COORDINATE ELECTRICAL SERVICES WITH THE TOWN AND EITHER ONCOR OR COSERV REPRESENTATIVES (ACCORDING TO THEIR RESPECTIVE AREA).
- 9.4. CONTRACTOR SHALL COORDINATE WITH THE ELECTRIC COMPANY TO DE-ENERGIZE ANY OVERHEAD OR UNDERGROUND POWER LINES. ANY COST ASSOCIATED WITH DE-ENERGIZING THE POWER LINE AND/OR ANY OTHER PROTECTIVE MEASURES REQUIRED SHALL BE AT NO COST TO TOWN.
- 9.5. THE CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE UTILITY COMPANY AND TXDOT/NTTA (IF WITHIN TXDOT/NTTA ROW) PRIOR TO BEGINNING ERECTION OF POLES, LUMINARIES AND STRUCTURES LOCATED NEAR ANY OVERHEAD OR UNDERGROUND UTILITIES.
- 9.6. PROPOSED CONCRETE FOUNDATION AND CONDUIT ALIGNMENT SHALL BE STAKED BY THE CONTRACTOR AND APPROVED BY THE TOWN PRIOR TO INSTALLATION.
- 9.7. CONTRACTOR SHALL CONTACT THE TOWN TRAFFIC DEPARTMENT (BETWEEN 8 AM – 5PM) FOR INSPECTION PRIOR TO POURING ANY CONCRETE FOUNDATION AND DIGGING FOR CONDUIT RUNS AT LEAST 48 HOURS IN ADVANCE.
- 9.8. CONTRACTOR SHALL HAVE A QUALIFIED IMSA LEVEL II OR A TRF453 CERTIFIED TECHNICIAN ON THE PROJECT SITE TO PLACE THE TRAFFIC SIGNALS IN OPERATION.
- 9.9. ELECTRICAL WORK SHALL BE PERFORMED BY CERTIFIED PERSONS IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT AND MAY BE REJECTED AS UNSUITABLE FOR USE DUE TO POOR WORKMANSHIP. THE REQUIRED ELECTRICAL CERTIFICATION COURSE IS AVAILABLE AND IS SCHEDULED PERIODICALLY BY TEEX. ALTERNATIVELY, THE CONTRACTOR MAY PURCHASE AN ENTIRE COURSE FOR THEIR PERSONNEL TO BE HELD AT A TIME AND LOCATION OF THEIR CHOICE AS NEGOTIATED THROUGH TEEX. FOR MORE INFORMATION, CONTACT: TEXAS ENGINEERING EXTENSION SERVICE (TEEX), TXDOT ELECTRICAL SYSTEM COURSE.
- 9.10. THE CONTRACTOR SHALL NOT PLACE PEDESTRIAN CROSSWALK AND STOP BAR PAVEMENT MARKINGS UNTIL SIGNAL IS OPERATIONAL.
- 9.11. ALL LIGHTING POLES, FIXTURES, AND ARMS WHICH ARE REMOVED SHALL BE DELIVERED TO THE TOWN PUBLIC WORKS & ENGINEERING SERVICES FACILITY BY THE

CONTRACTOR AND WILL REMAIN THE PROPERTY OF THE TOWN. CONTACT THE TRAFFIC DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF DELIVERY.

- 9.12. DURING THE 30-DAY TRAFFIC SIGNAL TEST PERIOD, CONTRACTOR SHALL RESPOND TO AND DIAGNOSE ALL TROUBLE CALLS WITH QUALIFIED PERSONNEL WITHIN A REASONABLE TRAVEL TIME FROM A DALLAS ADDRESS, BUT NOT MORE THAN TWO (2) HOURS MAXIMUM. CONTRACTOR SHALL REPAIR ANY MALFUNCTIONS OF SIGNAL EQUIPMENT SUPPLIED BY CONTRACTOR ON THE PROJECT. A LOCAL TELEPHONE NUMBER (NOT SUBJECT TO FREQUENT CHANGES) WHERE TROUBLE CALLS ARE TO BE RECEIVED ON A 24-HOUR BASIS SHALL BE PROVIDED TO THE TOWN BY THE CONTRACTOR. APPROPRIATE REPAIRS SHALL BE MADE WITHIN 24 HOURS. THE CONTRACTOR SHALL KEEP A RECORD OF EACH TROUBLE CALL REPORTED IN THE LOGBOOK PROVIDED BY THE TOWN AND SHALL NOTIFY THE TOWN OF EACH TROUBLE CALL. THE ERROR LOG IN THE MALFUNCTION MANAGEMENT UNIT (MMU) SHALL NOT BE CLEARED DURING THE 30-DAY TEST PERIOD WITHOUT THE APPROVAL OF THE TOWN.
- 9.13. TEXAS STATE LAW, ARTICLE 1436C, MAKES IT UNLAWFUL TO OPERATE EQUIPMENT OR MACHINES WITHIN 10-FEET OF ANY OVERHEAD ELECTRICAL LINES UNLESS DANGER AGAINST CONTACT WITH HIGH VOLTAGE OVERHEAD LINES HAS BEEN EFFECTIVELY GUARDED AGAINST PURSUANT TO THE PROVISIONS OF THIS ARTICLE. WHEN CONSTRUCTION OPERATIONS REQUIRE WORKING NEAR AN OVERHEAD ELECTRICAL LINE, THE CONTRACTOR SHALL CONTACT THE OWNER/OPERATOR OF THE OVERHEAD ELECTRICAL LINE TO MAKE ADEQUATE ARRANGEMENTS AND TO TAKE NECESSARY SAFETY PRECAUTIONS TO ENSURE THAT ALL LAWS, ELECTRICAL LINE OWNER/OPERATOR REQUIREMENTS AND STANDARD SAFETY PRACTICES ARE MET.