# STANDARD NOTES

- 1. ALL WORK SHALL CONFORM TO SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT STANDARD SPECIFICATIONS AND STANDARD PLANS. THE WORK IS SUBJECT TO THE INSPECTION AND APPROVAL OF THE DEPARTMENT OF STATE ARCHITECTS, AND SAN MATEO COUNTY COMMUNITY COLLEGE DISTRICT (SMCCCD). CONTACT ENGINEERING DIVISIONS INSPECTORS. CONTACT SMCCCD AT (650) 358-6785 TWO WORKING DAYS (48 HOURS) PRIOR TO THE START OF ANY WORK TO ARRANGE FOR INSPECTION.
- 2. THESE PLANS HAVE BEEN CHECKED BY SMCCCD FOR CONFORMANCE WITH THE DISTRICTS STANDARDS, BUT SUCH CHECKING BY THE DISTRICT DOES NOT RELIEVE THE CONTRACTOR FROM ITS RESPONSIBILITY TO FIND AND CORRECT ERRORS, OMISSIONS OR MAKE CHANGES REQUIRED BY CONDITIONS DISCOVERED IN THE FIELD DURING THE COURSE OF CONSTRUCTION. ANY REQUEST BY THE CONTRACTOR TO CHANGE THESE PLANS SHALL BE SUBMITTED IN WRITING TO THE ENGINEER.
- 3. ALL REVISIONS TO THIS PLAN MUST BE REVIEWED BY SMCCCD PRIOR TO CONSTRUCTION AND SHALL BE ACCURATELY SHOWN ON REVISED PLANS SIGNED BY THE ENGINEER PRIOR TO THE INSTALLATION OF THE IMPROVEMENTS.
- 4. ALL CONSTRUCTION STAKING FOR CURB, GUTTER, SIDEWALK, SANITARY SEWERS, STORM DRAINS, WATER LINES, FIRE HYDRANTS, AND ELECTROLIERS, ETC., SHALL BE DONE BY A REGISTERED CIVIL ENGINEER OR LICENSED LAND SURVEYOR.
- 5. THE EXISTING UTILITIES ARE PLOTTED FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THESE UTILITIES. THE CONTRACTOR SHALL PERFORM NO EXCAVATION UNTIL ALL UTILITY AGENCIES AND SMCCCD HAVE BEEN NOTIFIED AND HAVE BEEN GIVEN THE OPPORTUNITY TO MARK THEIR FACILITIES IN THE FIELD.
- 6. FIRE HYDRANT LATERALS, GAS AND TELEPHONE LINES, AND ALL OTHER UNDERGROUND UTILITIES SHALL BE INSTALLED PRIOR TO CURB, GUTTER, AND SIDEWALK CONSTRUCTION AND STREET PAVING.
- 9. ALL LINES FOUND ABANDONED WITHIN THE LIMITS OF WORK DURING CONSTRUCTION SHALL BE REMOVED.
- 7. ALL SANITARY SEWER MAINS SHALL BE TELEVISION INSPECTED (TAPES SHALL BE GIVEN TO THE SMCCCD), FLUSHED WITH AN APPROVED SEWER BALL AND PASS A LEAKAGE TEST IN CONFORMANCE WITH SMCCCD STANDARD SPECIFICATIONS PRIOR TO ACCEPTANCE BY THE DISTRICT. ALL TESTING SHALL BE PERFORMED AFTER THE COMPACTION FOR STREET BASE ROCK AND PRIOR TO PAVING.
- 8. ALL WATER LINES SHALL BE PRESSURE—TESTED, DISINFECTED, FLUSHED, AND TESTED FOR BACTERIA IN CONFORMANCE WITH THE SMCCCD DESIGN STANDARDS AND STANDARD SPECIFICATIONS PRIOR TO FINAL ACCEPTANCE BY THE DISTRICT.
- 9. TESTING
- A.ALL INDEPENDENT LABORATORY INSPECTION CALLED FOR BY THE ENGINEER WILL BE PAID FOR BY THE CONTRACTOR.
- B. ROAD SUB-BASE AND TRENCH BACKFILL SHALL BE PERFORMED BY A SOILS LAB CONTRACTING WITH SMCCCD.
- C. TESTS FOR R-VALUES ARE REQUIRED PRIOR TO THE INSTALLATION OF BASE ROCK.
- D. A MINIMUM OF 48 HOURS NOTICE IS REQUIRED TO SCHEDULE ALL SOILS TESTING SERVICES.

  10. STREET SIGNS SHALL BE INSTALLED AT THE DIRECTION OF THE DISTRICT
- AND PER DESIGN STANDARDS AND STANDARD SPECIFICATIONS.

  11. TRAFFIC SIGNS SHALL BE INSTALLED AT THE DIRECTION OF THE

SHALL BE DONE WITH THERMOPLASTIC AND REFLECTIVE MARKERS.

12. STREET STRIPING SHALL INCLUDE STOP BARS, CENTERLINE STRIPING OR MARKERS, CROSSWALKS AND ALL OTHER MARKINGS AS REQUIRED PER THE DISTRICT DESIGN STANDARDS AND STANDARD SPECIFICATIONS. STRIPING

DISTRICT AND PER DESIGN STANDARDS AND STANDARD SPECIFICATIONS.

- 13. ALL TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH CITY DESIGN STANDARDS AND STANDARD SPECIFICATIONS AND GEOTECHNICAL ENGINEER RECOMMENDATIONS. COMPACTION SHALL BE ACHIEVED BY MECHANICAL MEANS. NO FLOODING, PONDING OR JETTING SHALL BE PERMITTED.
- 14. WHEN WIDENING THE PAVEMENT ON AN EXISTING ROAD, THE EXISTING PAVEMENT SHALL BE CUT TO A NEAT LINE AND REMOVED BACK TO AN EXISTING ADEQUATE STRUCTURAL SECTION, OR TO THE ORIGINAL ROAD SECTION. AN EXPLORATORY TRENCH, OR POT—HOLING, MAY BE REQUIRED TO DETERMINE THE LIMITS OF PAVEMENT REMOVAL.
- 15. EXISTING CURB AND SIDEWALK WITHIN THE PROJECT LIMITS THAT ARE DAMAGED OR DISPLACED, EVEN THOUGH THEY WERE NOT TO BE REMOVED, SHALL BE REPAIRED OR REPLACED PER DISTRICT STANDARD PLANS EVEN IF DAMAGE OR DISPLACEMENT OCCURRED PRIOR TO ANY WORK PERFORMED BY
- THE THICKNESS OF SUB-BASE, BASE AND SURFACING SHALL BE DETERMINED BY THE GEOTECHNICAL ENGINEER BASED ON TRAFFIC INDEX AND SOIL TEST FOR "R" VALUE TAKEN AFTER ROUGH GRADING AT THE LEVEL OF THE STREET SUBGRADE
- 17. ALL STREET MONUMENTS, LOT CORNER, AND OTHER PERMANENT PIPE OR MONUMENTS DISTURBED DURING THE PROCESS OF CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR. A RECORD OF SURVEY SHALL BE PREPARED FOR ALL MONUMENTS, LOT CORNERS, AND OTHER PERMANENT PIPE OR MONUMENTS DISTURBED DURING CONSTRUCTION. THE COST FOR THE RECORD
- 18. THE CONTRACTOR SHALL CONTROL DUST AT ALL TIMES DURING CONSTRUCTION AS REQUIRED BY THE CITY OF TRACY.

OF SURVEY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

- 19. PRIOR TO TRENCHING FOR ANY SEWER, WATER, OR STORM DRAIN PIPE, THE CONTRACTOR SHALL VERIFY, IN THE FIELD, THE SIZE AND LOCATION OF THE EXISTING PIPE AT THE POINT OF CONNECTION. ANY DEVIATION FROM THE PLANS SHALL BE RESOLVED BY THE DESIGN ENGINEER PRIOR TO TRENCHING.
- 20. MANHOLES, VALVES, CLEANOUTS, ETC., SHALL BE BROUGHT TO FINISH GRADE BY THE CONTRACTOR AFTER FINAL PAVING COURSE IS PLACED.

# **ADDITIONAL NOTES**

THE CONTRACTOR.

# I. GENERAL

- 1. CONTRACTOR SHALL BE PROVIDED WITH ONE SET OF SURVEY STAKES FOR LAYOUT PURPOSES. IT WILL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PRESERVE AND PROTECT THESE STAKES UNTIL THEY ARE NO LONGER NEEDED. ALL RESTAKING SHALL BE AT CONTRACTOR'S SOLE COST REGARDLESS OF THE REASON FOR THE LOSS OF THE FIRST STAKES. (A 48-HOUR ADVANCE NOTICE SHALL BE PROVIDED ON ALL STAKING REQUESTS) STAKING SHALL BE PERFORMED BY A LICENSED CALIFORNIA SURVEYOR OR CIVIL ENGINEER.
- 2. EXISTING PEDESTRIAN WALKWAYS, BIKE PATHS, AND HANDICAP ACCESS PATHWAYS SHALL BE MAINTAINED DURING CONSTRUCTION TO THE SATISFACTION OF THE CONSTRUCTION MANAGER AND THE DISTRICT.
- 3. WHEN SPECIFICATIONS OR STANDARDS FROM DIFFERENT AUTHORITIES DIFFER FOR THE SAME SUBJECT MATTER, CONTACT OWNER'S REPRESENTATIVE.
- 4. UPON SATISFACTORY COMPLETION OF THE WORK, THE ENTIRE WORK SITE SHALL BE CLEANED UP AND LEFT WITH A SMOOTH AND NEATLY GRADED SURFACE FREE OF CONSTRUCTION WASTE AND RUBBISH OF ANY NATURE BY THE CONTRACTOR TO THE SATISFACTION OF THE DISTRICT.
- 5. CURB DATA REFERS TO TOP FACE OF CURB.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS, RIGHTS OF ENTRY, ETC. NECESSARY TO CONSTRUCT ANY WORK SHOWN HEREON.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL ENCROACHMENT, EXCAVATION, CONCRETE, ELECTRICAL, IRRIGATION, PLUMBING, ETC. PERMITS NECESSARY PRIOR TO BEGINNING ANY WORK SHOWN HEREON.

- 8. CONTRACTOR SHALL POST EMERGENCY TELEPHONE NUMBERS FOR AMBULANCE POLICE, AND FIRE DEPARTMENTS, AND THE CONTRACTOR. A DUPLICATE LIST SHALL BE PROVIDED TO THE DISTRICT AT THE TIME OF THE PRE CONSTRUCTION MEETING.
- 9. CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION CONTROL AND STORM WATER CONTROL MEASURES PER PLAN AND SWPPP.
- 10. CONTRACTOR SHALL HAVE A SUPERINTENDENT OR REPRESENTATIVE ON SITE AT ALL TIMES DURING CONSTRUCTION.
- 11. THE LOCATION AND PROTECTION OF ALL UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR. CONTACT U.S.A UNDERGROUND SERVICE ALERT 48 HOURS PRIOR TO ANY EXCAVATION (800) 227-2600.
- 12. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES, PIPELINES, OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SURVEY OR BY REVIEW OF EXISTING PLANS. APPROVAL OF THESE PLANS BY BKF DOES NOT CONSTITUTE A REPRESENTATION AS TO THE EXISTENCE OR NONEXISTENCE OF ANY UNDERGROUND UTILITIES, PIPELINES, OR STRUCTURES WITHIN THE LIMITS OF WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO BEGINNING WORK.
- 13. THE CONTRACTOR AND SUBCONTRACTORS AGREE THAT THEY ASSUME SOLE RESPONSIBILITY AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD BKF, AND THE DISTRICT HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OR WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FORM THE SOLE NEGLIGENCE OF THE DISTRICT OR THE ENGINEER.
- 14. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE CONSTRUCTION WITH THE UTILITY AGENCIES AND THE SUBCONTRACTORS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY BKF OF ANY DIFFERENCES OF LOCATION OF EXITING UTILITIES FROM THAT SHOWN, OR ANY CONFLICTS WITH THE DESIGN BEFORE CONTINUING WORK IN THAT AREA. CONTRACTOR SHALL OBTAIN SIGNATURES FROM UTILITY COMPANIES THAT THE WORK HAS BEEN COMPLETED TO THEIR SATISFACTION.
- 15. A CIVIL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF CALIFORNIA WILL SET ALL STAKES AND PROVIDE THE CUT SHEETS (TO BE APPROVED BY THE ENGINEER) FOR THIS PROJECT. THE CONTRACTOR SHALL REQUEST STAKES 48 HOURS IN ADVANCE. THE CONTRACTOR SHALL CAREFULLY PRESERVE STAKES AND MARKERS. IN CASE SUCH STAKES AND MARKERS ARE DESTROYED OR DAMAGED THEY WILL BE REPLACED AT THE ENGINEER'S EARLIEST CONVENIENCE. THE CONTRACTOR WILL BE CHARGED FOR THE COST OF NECESSARY REPLACEMENT OR RESTORATION OF STAKES AND MARKERS WHICH IN THE JUDGMENT OF THE ENGINEER WERE CARELESSLY OR FULLY DESTROYED OR DAMAGED BY THE CONTRACTOR'S OPERATIONS.
- 16. PRIOR TO PLACING CURB, SIDEWALK, ASPHALT CONCRETE, SUB-BASE OR BASE MATERIAL, ALL UNDERGROUND UTILITIES SHALL BE INSTALLED, BACKFILL COMPLETED, AND THE DISTRICT NOTIFIED BY EACH OF THE UTILITY COMPANIES HAVING FACILITIES WITHIN THE WORK AREA, THAT THE UTILITY INSTALLATION HAS SATISFACTORILY PASSED ACCEPTANCE
- 17. THE CONTRACTOR SHALL EXPOSE (I.E. BY POT-HOLING) AND CHECK INVERTS ON EXISTING SEWERS, STORM DRAINS, AND CLEARANCES OF KNOWN CROSSINGS OF OTHER UTILITIES BEFORE CONSTRUCTING NEW PIPELINES. IF THE CONTRACTOR DETERMINES THE EXISTING INVERTS ARE NOT IN CONFORMANCE WITH THE PLANS, OR CROSSING CONFLICTS ARISE, HE SHALL NOTIFY THE ENGINEER BEFORE PERFORMING ANY WORK.
- 18. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK TO AVOID CONFLICTS BETWEEN MAINS AND LATERALS (I.E. STORM DRAINS, SANITARY SEWERS, AND WATER MAINS).
- 19. SHOULD IT APPEAR THAT THE WORK TO BE DONE, OR ANY MATTER RELATIVE THERETO, IS NOT SUFFICIENTLY DETAILED OR EXPLAINED ON THESE PLANS THE CONTRACTOR SHALL CONTACT BKF FOR SUCH FURTHER EXPLANATION AS MAY BE NECESSARY.
- 20. IT IS THE DEVELOPER'S AND/OR CONTRACTOR'S RESPONSIBILITY TO NOTIFY BKF UPON FINDING CONDITIONS IN THE FIELD WHICH ARE AT VARIANCE WITH THE PLANS AND/OR WHICH MAY REQUIRE ALTERING OF THE PLANS PRIOR TO THE COMMENCEMENT OF WORK.
- 21. UPON APPROVAL OF THE PLANS AND SPECIFICATIONS ANY CHANGES TO THE ANY CHANGES TO THE IMPROVEMENT PLANS NECESSITATED DURING CONSTRUCTION SHALL REQUIRE APPROVAL OF THE ENGINEER THROUGH A PLAN REVISION SUBMITTED BY BKF. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM BKF.
- 22. ANY EXISTING IMPROVEMENTS DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED AND/OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE, TO THE SATISFACTION OF THE DISTRICT. PAVEMENT REPAIR, RECONSTRUCTION OR FULL ASPHALT CONCRETE OVERLAY WILL BE REQUIRED BY THE DISTRICT FOR PAVEMENT DAMAGED DURING CONSTRUCTION.
- 23. THE CONTRACTOR SHALL NOTIFY THE DISTRICT 48 HOURS PRIOR TO PERFORMING WORK REQUIRING INSPECTION. WORK PERFORMED OR COVERED WITHOUT ADEQUATE NOTICE WILL BE SUBJECT TO REJECTION.
- 24. CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO THE HOURS OF 7:00 AM AND 7:00 PM MONDAY THROUGH FRIDAY. NOISE—GENERATING CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO THE HOURS OF 8:00 AM AND 5:00 PM. WORK ON SATURDAYS SHALL REQUIRE SPECIAL APPROVAL OF THE DISTRICT. NO CONSTRUCTION ACTIVITY SHALL BE PERMITTED ON SUNDAYS OR STATE AND FEDERAL HOLIDAYS.
- 25. ALL CONSTRUCTION VEHICLES SHALL ADHERE TO DISTRICT APPROVED TRUCK ROUTES. <u>DURING CONSTRUCTION</u>, <u>THE CITY STREETS SHALL BE CLEANED AS OFTEN AS REQUIRED TO REMOVE ANY ACCUMULATION OF MUD DEBRIS RESULTING FROM THIS CONSTRUCTION</u>. <u>THE CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY THE CITY OF SAN MATEO FOR HAULING ON LOCAL STREETS</u>
- 26. STORAGE OF CONSTRUCTION MATERIAL AND EQUIPMENT ON CITY STREETS WILL NOT BE PERMITTED.
- 27. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG PERSONS, OR OTHER TRAFFIC SAFETY DEVICES TO PROVIDE PUBLIC SAFETY IN ACCORDANCE WITH CALTRANS, WORK AREA TRAFFIC CONTROL HANDBOOK, AND CAL-OSHA SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN TO THE APPROVAL OF THE DISTRICT.
- 28. STATIONARY NOISE-GENERATING CONSTRUCTION EQUIPMENT SUCH AS COMPRESSORS SHALL BE LOCATED AS FAR AS PRACTICAL FROM OCCUPIED BUILDINGS.
- 29. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESPONDING TO ANY LOCAL COMPLAINTS ABOUT CONSTRUCTION NOISE.
- 30. CONSTRUCTION EQUIPMENT, TOOLS, ETC. SHALL NOT BE CLEANED OR RINSED INTO A STREET, GUTTER, STORM DRAIN, OR STREAM. SHOVEL OR VACUUM SAWCUT SLURRY AND REMOVE FROM SITE.
- 31. A CONTAINED AND COVERED AREA ON SITE SHALL BE USED FOR STORAGE OF CEMENT BAGS, PAINTS, FLAMMABLES, OILS, FERTILIZERS, OR ANY OTHER MATERIALS THAT HAVE POTENTIAL FOR BEING DISCHARGED TO THE STORM DRAIN SYSTEM BY WIND OR IN THE EVENT OF A MATERIAL SPILL.
- 32. ALL CONSTRUCTION DEBRIS SHALL BE GATHERED ON A REGULAR BASIS AND PLACED IN A DUMPSTER WHICH IS EMPTIED OR REMOVED WEEKLY. WHEN FEASIBLE, TARPS SHALL BE USED ON THE GROUND TO COLLECT FALLEN DEBRIS OR SPLATTERS THAT COULD CONTRIBUTE TO STORM WATER POLLUTION. ANY TEMPORARY ON—SITE CONSTRUCTION PILES SHALL BE SECURELY COVERED WITH A TARP OR OTHER DEVICE TO CONTAIN DEBRIS.
- 33. CONCRETE/GUNITE TRUCKS AND CONCRETE/PLASTER FINISHING OPERATIONS SHALL NOT DISCHARGE WASH WATER INTO THE STREET GUTTERS OR DRAINS.
- 34. TRASH AND DEBRIS SHALL BE CLEANED UP DAILY ON ALL STREETS IN THE PROJECT VICINITY AND ALONG HAUL ROUTES. SWEEP AS NEEDED AND AS DIRECTED BY THE DISTRICT.

#### II. EXISTING CONDITIONS

- 1. EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED ON THE COMPILATION OF AN AERIAL SURVEY BY SANDIS HUMBER JONES. CONTRACTOR SHALL REVIEW THE PLANS AND SPECIFICATIONS AND CONDUCT FIELD INVESTIGATIONS AS REQUIRED TO VERIFY EXISTING CONDITIONS AT THE PROJECT SITE. SHOULD GRADES ENCOUNTERED VARY FROM THOSE SHOWN, CONTRACTOR IS TO IMMEDIATELY CONTACT THE ENGINEER FOR CLARIFICATION.
- 2. ALL KNOWN EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE FROM AVAILABLE RECORD INFORMATION. THE CONTRACTOR SHALL PROCEED WITH DUE CAUTION DURING ALL UNDERGROUND OPERATIONS AND SHALL REPAIR OR REPLACE ALL UTILITIES DAMAGED DURING CONSTRUCTION TO THE SATISFACTION OF THE DISTRICT AND/OR AFFECTED AGENCIES.
- 3. ELEVATIONS, LOCATIONS, AND SIZES OF ALL EXISTING UTILITIES WHICH CROSS THE LINE OF CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF ANY CONSTRUCTION AFFECTING SAID LINES.
- 4. HAND TUNNELING/DIGGING MAY BE REQUIRED FOR EXCAVATION WORK IN WHICH EXISTING UTILITIES ARE WITHIN 24" OR LESS VERTICALLY OR HORIZONTALLY OF THE TRENCH LINE.

### III. UTILITIES

TRENCHING AND RESURFACING

- A. CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT FOR UTILITY TRENCHING.
- B. ALL TRENCHES SHALL BE SHORED OR PROTECTED IN ACCORDANCE WITH OSHA AND OTHER STATE AND FEDERAL SAFETY CODES, REGULATIONS AND
- ORDINANCES.

  C. PLACEMENT OF AGGREGATE BASE SHALL BE IN 8" LIFTS EVENLY PLACED AND MECHANICALLY COMPACTED TO RELATIVE DENSITY AS SPECIFIED.
- D. ALL TRENCHES SHALL BE BACKFILLED AND TEMPORARILY PAVED OR STEEL PLATED AT THE END OF EACH WORKING DAY.
- E. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL APPROVALS OF UTILITY INSTALLATIONS IN NEWLY CONSTRUCTED STREETS AND OTHER PAVED AREAS PRIOR TO PLACING NEW PAVING.
- F. FINAL PAVING ABOVE TRENCH SECTION SHALL BE PLACED WITHIN 14 DAYS OF ITS BACKFILL AND COMPACTION. EXTENSION MAY BE GRANTED DUE TO WEATHER CONDITIONS. DEPTH OF FINAL PAVING SHALL BE 1-1/3 TIMES EXISTING PAVEMENT.
- G. TEMPORARY CUTBACK SHALL BE REMOVED BEFORE PLACEMENT OF FINAL PAVING. FINAL PAVING SHALL BE PLACED ON UNDISTURBED PREVIOUSLY INSPECTED AND COMPACTED AGGREGATE BASE OR ONE SACK SLURRY MIX. RECOMPACTION SHALL BE REQUIRED FOR ANY DISTURBED BASE OR SURFACE.
- H. PROPER TRAFFIC CONTROLS AND COVERING OF TRENCHES SHALL BE MAINTAINED IN ACCORDANCE WITH LOCAL SAFETY AND TRAFFIC CONTROL STANDARDS.
- I. ASPHALT CONCRETE SHALL BE IN ACCORDANCE WITH CITY OF TRACY STANDARD SPECIFICATIONS.
- J. THE CONTRACTOR SHOULD CAREFULLY READ AND UNDERSTAND CITY AND PROJECT TRENCH BACKFILL SPECIFICATIONS IN REGARD TO FILL MATERIALS AND COMPACTION REQUIREMENTS.
- K. GLORY HOLE EXCAVATIONS AND V-TRENCHING SHALL NOT BE PERFORMED. THEY RESULT IN LARGE QUANTITIES OF HEAVY BACKFILL THAT CAN CAUSE LONG-TERM DIFFERENTIAL SETTLEMENTS.
- L. EXCAVATIONS SHALL BE ADEQUATELY SHORED, BRACED, AND SHEATHED SO THAT THE EARTH WILL NOT SLIDE OR SETTLE, AND SO THAT ALL EXISTING IMPROVEMENTS OF ANY KIND WILL BE FULLY PROTECTED FROM DAMAGE. ANY DAMAGE RESULTING FROM A LACK OF ADEQUATE SHORING, BRACING, AND SHEATHING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND HE SHALL COMPLETE NECESSARY REPAIRS OR RECONSTRUCTION AT HIS OWN EXPENSE. WHERE THE EXCAVATION IS FOR A CONDUIT TRENCH AND/OR THE STRUCTURE IS FIVE (5) FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL PROVIDE SHEATHING, SHORING, AND BRACING IN CONFORMANCE WITH THE APPLICABLE CONSTRUCTION SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY OF THE STATE OF CALIFORNIA. THE CONTRACTOR SHALL COMPLY WITH OSHA REQUIREMENTS AT ALL TIMES.
- M. ALL BENDS, TEES, PLUGS, DEAD-ENDS, WET TAPS, AND BLOWOFF ASSEMBLIES SHALL BE DESIGNATED AND CONSTRUCTED WITH CONCRETE THRUST BLOCKS. CONTRACTOR IS RESPONSIBLE FOR ALL THRUST RESTRAINTS ON ALL PRESSURE PIPES.

# 2. PIPE MATERIAL

- A. STORM DRAIN PIPE 12 INCHES OR LARGER SHALL BE REINFORCED CONCRETE, TYPE III BELL & SPIGOT-TYPE PIPE, CONFORMING TO THE REQUIREMENTS OF ASTM DESIGNATION C76 EXCEPT THAT ALL PIPES SHALL HAVE BEEN MANUFACTURED USING PORTLAND CEMENT CONCRETE CONFORMING TO THE PROJECT SPECIFICATIONS STORM DRAINAGE SECTION 11 CONCRETE STORM DRAIN PIPES AND SECTION 14 STORM DRAIN MANHOLES.
- B. SANITARY SEWER PIPE SHALL BE VITRIFIED CLAY PIPE (VCP). ALL VCP PIPE AND FITTINGS FOR SANITARY SEWERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C700.
- ALL POTABLE WATER SYSTEM IMPROVEMENTS SHALL BE DUCTILE IRON (DI). ALL DUCTILE IRON PIPE SHALL COMPLY WITH AWWA C151. ALL FITTINGS FOR POTABLE WATER DUCTILE IRON PIPES BELOW GROUND SHALL BE MECHANICAL JOINTS PER AWWA C111.

# 6. POTABLE WATER DISTRIBUTION

OPENINGS.

VALVE LID.

- A. ALL WATER LINES SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (DIP)
  AND CONFORM TO SECTION 207-9.2 OF THE STANDARD SPECIFICATIONS
  FOR PUBLIC WORKS CONSTRUCTION.
- B. FITTINGS FOR DIP SHALL BE CLASS 250 FOR 3-INCH SIZE AND LARGER, MECHANICAL JOINTS CONFORMING TO THE REQUIREMENTS OF AWWA C111. FITTINGS SHALL BE CEMENT MORTAR LINED IN ACCORDANCE TO AWWA C104. OUTSIDE OF FITTINGS SHALL BE BITUMINOUS COATED.
- C. ALL BURIED FERROUS METAL SHALL BE PROTECTED FROM EROSION, INCLUDING BUT NOT LIMITED TO VALVES, FITTINGS, PIPE, FLEXIBLE COUPLING & HYDRANT PIPING WITH POLYWRAP IN ACCORDANCE WITH AWWA C105. POLYETHYLENE PROTECTIVE WRAPPING (POLYWRAP) SHALL BE 8 MIL THICK SHEETS CUT FROM TUBES SUPPLIED BY U.S. PIPE & FOUNDRY COMPANY OR APPROVED EQUAL. THE EDGES SHALL BE SECURED WITH 8 MIL THICK, 1—INCH WIDE SCOTCH WRAP AS MANUFACTURED BY MINNESOTA MINING AND MANUFACTURING CO, OR APPROVED EQUAL.
- D. ALL PVC PIPE SHALL HAVE COPPER TRACER WIRE PLACED ON TOP OF THE PIPE AND DAYLIGHTED AT EVERY OTHER VALVE BOX LOCATION.
- E. DURING CONSTRUCTION WHENEVER THE NEW NON-POTABLE WATER LINE IS LEFT UNATTENDED TEMPORARY PLUGS MUST BE INSTALLED AT ALL
- F. VALVES SHALL NOT BE LOCATED IN CONCRETE AREAS SUCH AS SIDEWALKS, CROSSPANS, APRONS, OR CURB AND GUTTER. ONCE ASPHALT PAVING IS COMPLETE, ALL VALVES SHALL BE RAISED TO 1/4 INCH BELOW FINAL PAVEMENT GRADE AND HAVE A 12 INCH CONCRETE COLLAR PLACED AROUND THE VALVE LID FOR REINFORCEMENT. THE CONCRETE COLLAR SHOULD BE MEASURED FROM THE OUTSIDE DIAMETER OF THE
- G. ALL NON-POTABLE WATER VALVE LIDS SHALL BE CAST DUCTILE IRON, TRIANGULAR IN SHAPE, AND LABELED WITH THE WORDING "IRRIGATION".
- H. AIR VACUUM RELEASE VALVES ARE REQUIRED AT ALL HIGH POINTS LOCATED WITHIN THE NON-POTABLE SYSTEM.
- I. ALL BENDS, TEES, PLUGS, DEAD-ENDS, WET TAPS, AND BLOWOFF ASSEMBLIES SHALL BE DESIGNATED AND CONSTRUCTED WITH CONCRETE THRUST BLOCKS.

#### 6. SANITARY SEWERS AND STORM DRAIN NOTES

- A. ALL PIPES SHALL BE LAID ACCURATELY ACCORDING TO THE LINES AND GRADES SHOWN ON THE PLANS.
- B. CUT SHEETS SHALL BE PREPARED UNDER THE DIRECTION OF AND SIGNED BY A REGISTERED ENGINEER OR LICENSED LAND SURVEYOR, AND APPROVED BY THE DISTRICT. LOCATION OF ALL WYES SHALL BE NOTED ON THE CUT SHEET. OFFSET FOR STAKES SHALL BE ACCEPTABLE TO THE ENGINEER.
- C. PIPE ENDS AND FITTINGS SHALL BE CLEAN AND FREE FROM SAND OR DIRT WHEN THE JOINTS ARE MADE. JOINTS SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS.
- D. TRENCH BACKFILLING SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
- E. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE SHEETING, SHORING, AND DEWATERING.
- F. ALL SANITARY PIPE SHALL BE POLYVINYL CHLORIDE (PVC), SDR26. ALL PIPE DELIVERED TO THE JOB SITE IS TO BE MARKED AS TO PIPE TYPE, STRENGTH CLASS, AND BRAND NAME.
- G. CONSTRUCTION OF MANHOLES SHALL INCLUDE FURNISHING FRAME AND COVER AND SETTING TO FINAL GRADE WHERE LOCATED IN PAVED AREAS.
- H. EACH JOINT SHALL BE INSPECTED BY THE DISTRICT INSPECTOR PRIOR TO BACKFILL.
- I. <u>TELEVISION INSPECTION</u>: UPON COMPLETION OF THE IMPROVEMENTS AND AFTER CLEANING ALL NEW MAIN AND LATERAL LINES, THE MAIN SHALL BE VISUALLY INSPECTED BY MEANS OF A CLOSED—CIRCUIT TELEVISION.
- J. VIDEO RECORDINGS SHALL BE MADE OF THE TELEVISION INSPECTIONS
  BY CONTRACTOR AND TWO DISC COPIES SHALL BE SUPPLIED TO THE DISTRICT
  THREE COPIES OF PRINTED INSPECTION LOGS SHALL ALSO
  BE SUPPLIED TO THE DISTRICT.
- K. LIGHTING, CAMERA QUALITY, AND ALL OTHER NECESSARY EQUIPMENT TO PERFORM THE TELEVISION INSPECTION SHALL BE SUITABLE TO A CLEAR, IN-FOCUS PICTURE OF THE ENTIRE INSIDE PERIPHERY OF THE SEWER PIPE. VIDEO PLAYBACK SHALL BE AT THE SAME SPEED IT WAS RECORDED.
- L. PIPES CONNECTING TO EXISTING STRUCTURES SHALL BE GROUTED SMOOTH FLUSH WITH THE EXISTING INTERIOR STRUCTURE WALL. VOIDS BETWEEN STRUCTURES AND PIPE WALL SHALL BE FILLED WITH PCC GROUT TO THE SATISFACTION OF THE DISTRICT.

### **GRADING AND PAVING NOTES**

- 1. ALL GRADING WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS AND RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORTS PREPARED BY CORNERSTONE EARTH GROUP. REPORTS INCLUDE: "BUILDING 5N MODERNIZATION", DATED FEBRUARY 1, 2008, "BUILDING 10N MODERNIZATION" DATED MARCH 28, 2008, "SUPPLEMENTAL PAVEMENT RECOMMENDATIONS" DATED MAY 22, 2008, & "SUPPLEMENTAL GEOTECHNICAL RECOMMENDATIONS COLLEGE OF SAN MATEO AQUATIC CENTER" DATED FEBRUARY 2, 2009.
- 2. THE GEOTECHNICAL ENGINEER SHALL BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF GRADING OPERATIONS.
- 3. A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER SHALL BE ON SITE DURING GRADING OPERATIONS AND SHALL PERFORM SUCH TESTING AS DEEMED NECESSARY. THE REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER SHALL OBSERVE THE GRADING OPERATION FOR CONDITIONS THAT SHOULD BE CORRECTED, AND IDENTIFY THOSE CONDITIONS WITH RECOMMENDED CORRECTIVE MEASURES TO THE CONTRACTOR AND DISTRICT.
- 4. THE PRESENCE OF THE GEOTECHNICAL ENGINEER'S FIELD REPRESENTATIVE AT THE SITE IS TO PROVIDE THE DISTRICT A CONTINUING SOURCE OF PROFESSIONAL ADVICE, OPINIONS AND RECOMMENDATIONS BASED UPON THE FIELD REPRESENTATIVE'S OBSERVATIONS OF THE CONTRACTOR'S WORK, AND DOES NOT INCLUDE ANY SUPERINTENDING, SUPERVISION, OR DIRECTION OF THE ACTUAL WORK OF THE CONTRACTOR, SUBCONTRACTOR, OR THE CONTRACTOR'S OR SUBCONTRACTOR'S WORKMEN, NOR DOES ANY CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE CONDUCTED BY THE GEOTECHNICAL ENGINEER CONSTITUTE A REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.
- 5. CONTRACTOR SHALL EXERCISE EXTREME CARE TO CONFORM TO THE LINES, GRADES, SECTIONS, AND DIMENSIONS AS SET FORTH ON THESE PLANS. ALL GRADED AREAS SHALL CONFORM TO THE VERTICAL ELEVATIONS SHOWN WITHIN A TOLERANCE OF ONE—TENTH OF A FOOT. WHERE GRADED AREAS DO NOT CONFORM TO THESE TOLERANCES, THE CONTRACTOR SHALL BE REQUIRED TO DO CORRECTIVE GRADING, AT NO EXTRA COST TO THE DISTRICT.
- 6. WHEREVER, IN THE OPINION OF THE GEOTECHNICAL ENGINEER, AN UNSTABLE GRADING CONDITION IS BEING CREATED, THE CONTRACTOR SHALL IMMEDIATELY CORRECT THE CONDITION BEFORE PROCEEDING WITH OTHER WORK.
- 7. ALL AREAS TO BE GRADED SHALL FIRST BE STRIPPED IN ACCORDANCE WITH THE REQUIREMENTS OF THE GEOTECHNICAL REPORT AND THE GEOTECHNICAL ENGINEER. ALL TOPSOIL SHALL BE STOCKPILED FOR FUTURE USE.
- 8. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THE GROUND ELEVATIONS AND OVERALL TOPOGRAPHY OF THE SITE PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IN WRITING OF DIFFERENCES IN TOPOGRAPHY FROM THAT SHOWN ON THIS PLAN WHICH MAY REQUIRE CHANGES IN DESIGN AND/OR AFFECT THE EARTHWORK QUANTITY.
- 9. TEMPORARY EROSION AND SEDIMENTATION CONTROL FACILITIES SHALL BE COMPLETELY IN PLACE PRIOR TO OCTOBER 15TH, AND SHALL BE DILIGENTLY MAINTAINED TO ENSURE EFFECTIVENESS THROUGH APRIL 15TH.

# SIGNING AND STRIPING NOTES

1. ALL PAINTED STRIPES AND MARKINGS SHALL CONFORM TO PROJECT SPECIFICATION SECTION 32 1723 "PAVEMENT MARKINGS"

# SURVEYOR'S STATEMENT

- 1. THIS MAP REPRESENTS A PARTIAL TOPOGRAPHIC SURVEY ONLY.
  TOPOGRAPHIC SURVEY IS OF ITEMS REQUESTED ONLY. THE AERIAL
  TOPOGRAPHIC SURVEY SHOWN IN THE BACKGROUND WAS PROVIDED
  BY THE CLIENT AND WAS NOT PERFORMED BY BKF ENGINEERS. NO
  BOUNDARY OR RIGHT—OF—WAY SURVEY WAS PERFORMED IN
  CONJUNCTION WITH THIS SURVEY. RECORD BOUNDARY AND RECORD
  EASEMENTS ARE NOT SHOWN AS PART OF THIS SURVEY.
- 2. ALL TREE DIMENSIONS HEREON ARE DIAMETER MEASUREMENTS.
- 3. THE TOPOGRAPHIC INFORMATION SHOWN HEREON WAS COMPILED FROM A FIELD SURVEY PERFORMED BETWEEN APRIL 2008 AND JUNE 2008.
- 4. ALL MEASUREMENTS SHOWN HEREON ARE IN FEET AND DECIMAL FEET UNLESS OTHERWISE SHOWN.

# RECORD DRAWINGS

1. CONTRACTOR SHALL KEEP ACCURATE RECORD DRAWINGS WHICH SHOW THE FINAL LOCATION, ELEVATION, AND DESCRIPTION OF ALL WORK. CONTRACTOR SHALL ALSO NOTE THE LOCATION AND ELEVATION OF ANY EXISTING IMPROVEMENTS ENCOUNTERED. RECORDS SHALL BE "REDLINED" ON A SET OF CONSTRUCTION PLAN DRAWINGS. FROM THE "REDLINED" SET OF CONSTRUCTION PLAN DRAWINGS RECORD DRAWINGS SHALL BE PREPARED BY THE CONSULTING ENGINEER AND A MYLAR SET OF RECORD DRAWINGS SUBMITTED TO THE DISTRICT PRIOR TO FINAL ACCEPTANCE OF THE IMPROVEMENTS.

# STATEMENT OF RESPONSIBILITY

1. THE SMCCCD, CITY OF SAN MATEO, PROJECT ENGINEERS OR PROJECT ARCHITECT WILL NOT DIRECTLY CONTROL THE PHYSICAL ACTIVITIES OF THE CONTRACTOR OR ANY SUBCONTRACTORS. CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT TO BE LIMITED TO NORMAL WORKING HOURS, AND CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD THE OWNER, THE OWNER'S REPRESENTATIVES AND ENGINEERS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE CONSULTING ENGINEER.

### UNAUTHORIZED CHANGES AND USES

- 1. THE CONSULTING ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.
- 2. NO FIELD CHANGES SHALL BE MADE WITHOUT PRIOR AUTHORIZATION FROM THE DISTRICT AND CONSULTING ENGINEER. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN APPROVAL FROM THE DISTRICT AND CONSULTING ENGINEER.

### SEDIMENTATION AND POLLUTION CONTROL

- CONTRACTOR SHALL IMPLEMENT ALL SEDIMENTATION AND POLLUTION CONTROL MEASURES SHOWN ON THE EROSION CONTROL PLANS AND DETAILS INCLUDED IN THESE IMPROVEMENT PLANS.
- 2. ALL WORK SHALL BE DONE IN COMPLIANCE WITH THE NPDES GENERAL PERMIT FOR STORM WATER DISCHARGE. EROSION AND DUST CONTROL MEASURES SHALL BE IMPLEMENTED IN ACCORDANCE WITH THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AND MONITORING PROGRAM USING BEST MANAGEMENT PRACTICE GUIDELINES.
- 3. CONTRACTOR SHALL COORDINATE WITH THE DISTRICT ON THE SCHEDULING OF DUST CONTROL METHODS.
- 4. CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF THE PROJECT STORM WATER POLLUTION PREVENTION PLAN (SWPPP) THAT WILL BE PREPARED BY BKF CONSULTING ENGINEERS. CONTRACTOR SHALL COMPLETE THE PROJECT INFORMATION SECTION AND SUBMIT A COPY TO THE ENGINEER PRIOR TO BEGINNING OF WORK. CONTRACTOR SHALL UPDATE THE SWPPP AS NECESSARY. A COPY OF THE SWPPP SHALL REMAIN ON—SITE THROUGHOUT CONSTRUCTION.
- 5. ALL TRUCKS TRANSPORTING FILL MATERIAL SHALL BE COVERED OR PROTECTED IN SUCH A WAY AS TO PREVENT SLOUGHING AND/OR SPILLAGE.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL REQUIRED IN THE PROJECT SPECIFICATIONS. (CONSTRUCTION ACTIVITIES INVOLVING EARTH—MOVING OR TRAVEL ON UNPAVED SURFACES SHALL BE HALTED WHEN WIND SPEEDS OF 15 M.P.H. ARE REPORTED, OR AS DIRECTED BY THE DISTRICT)
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OFF—SITE DAMAGE RESULTING FROM THE LACK OF DUST CONTROL AND SHALL PROVIDE MITIGATION MEASURES, AT HIS SOLE EXPENSE, AS DIRECTED BY THE DISTRICT.

### FIRE PROTECTION

1. ANY COMBUSTIBLE VEGETATION THAT IS CLEARED SHALL BE REMOVED FROM THE SITE WITHIN 72 HOURS TO ELIMINATE ANY FIRE HAZARDS UNLESS OTHERWISE ALLOWED IN WRITING BY THE CITY OF SAN MATEO FIRE DEPARTMENT

### PROJECT BENCHMARK

 THE ELEVATIONS IN THIS TOPOGRAPHIC SURVEY ARE BASED ON THE LOCAL CONTROL POINT NUMBER 110 PROVIDED TO BKF ENGINEERS BY SANDIS AS POINT NUMBER 10. ELEVATION USED =585.52'.

### REFERENCE DOCUMENTS

- 1. GEOTECHNICAL INVESTIGATION AND GEOLOGIC EVALUATION COLLEGE OF SAN MATEO BUILDING 10N MODERNIZATION BY CORNERSTONE EARTH GROUP, DATED MARCH 28, 2008
- 2. GEOTECHNICAL INVESTIGATION AND GEOLOGIC EVALUATION COLLEGE OF SAN MATEO BUILDING 5N MODERNIZATION BY CORNERSTONE EARTH GROUP, DATED FEBRUARY 1, 2008
- PRELIMINARY GEOTECHNICAL INVESTIGATION IMPROVEMENTS AT COLLEGE OF SAN MATEO BY TRC, DATED APRIL 6, 2007.

### FIRE SERVICE NOTES

- 1. ALL FERROUS METAL PIPE SHALL BE LINED, AND STEEL PIPE SHALL BE COATED AND WRAPPED WITH JOINTS FIELD—COATED AND WRAPPED AFTER ASSEMBLY, FOR BURIED PIPE, GALVANIZING, INTERNALLY OR EXTERNALLY, DOES NOT MEET THE REQUIREMENTS OF THIS SECTION.
- 2. ALL BOLTED JOINT ACCESSORIES SHALL BE CLEANED AND THOROUGHLY COATED WITH ASPHALT OR OTHER CORROSION—RETARDING MATERIAL AFTER INSULATION.
- RESTRAINING DEVICES, EXCEPT THRUST BLOCKS, SHALL BE CLEANED AND THOROUGHLY COATED WITH A BITUMINOUS OR OTHER ACCEPTABLE CORROSION RETARDING MATERIAL.

  4. THRUST BLOCKS SHALL BE A CONCRETE MIX NOT LEANER THAN ONE PART CEMENT, TWO AND ONE HALF PARTS SAND, AND FIVE PARTS STONE. THRUST

3. AFTER INSTALLATION, RODS, NUTS, BOLTS, WASHERS, CLAMPS, AND OTHER

- BLOCKS SHALL BE PLACED BETWEEN UNDISTURBED EARTH AND THE FITTING TO BE RESTRAINED, AND SHALL BE BEARING AS TO ENSURE ADEQUATE RESISTANCE TO THE THRUST TO BE ENCOUNTERED. IN GENERAL, THRUST BLOCKS SHALL BE SO PLACED THAT THE JOINTS WILL BE ACCESSIBLE FOR INSPECTION AND REPAIR.
- 5. UNDERGROUND MAINS SHALL BE COMPLETELY FINISHED TO REMOVE FOREIGN MATERIALS THAT MIGHT HAVE ENTERED THE MAIN DURING THE COURSE OF INSTALLATION PER TABLE 10.10.1 TO PRODUCE A VELOCITY OF 10 FEET PER SECOND IN PIPES (WITNESSED BY THE INSPECTOR OF RECORD). LOCAL FIRE JURISDICTION SHALL BE NOTIFIED OF DATE AND TIME OF TESTING SO THEY MAY OBSERVE THE TESTING WHEN DESIRED.
- 6. ALL NEW PRIVATE UNDERGROUND FIRE SERVICE MAINS SHALL BE TESTED HYDROSTATICALLY AT NOT LESS THAN 200-PSI PRESSURE FOR A MAXIMUM OF TWO HOURS (WITNESSED BY THE INSPECTOR OF RECORD). LOCAL FIRE JURISDICTION SHALL BE NOTIFIED OF DATE AND TIME OF TESTING AND SHALL OBSERVE AND/OR ASSIST IOR WHEN POSSIBLE.

THE AMOUNT OF LEAKAGE IN BURIED PIPING SHALL BE MEASURED AT THE

NEW PIPE, THE AMOUNT OF LEAKAGE AT THE JOINTS SHALL NOT EXCEED

SPECIFIED TEST PRESSURE BY PUMPING FROM A CALIBRATED CONTAINER. FOR

TWO-QUARTS PER HOUR PER 100 GASKETS OR JOINTS IRRESPECTIVE OF PIPE

DIAMETER. NO VISIBLE LEAKAGE SHALL BE ALLOWED IN ABOVE GROUND PIPING.

HYDROSTATIC TESTS SHALL BE MADE BEFORE THE JOINTS ARE COVERED SO

THAT ANY LEAKS MAY BE READILY DETECTED.

WITHIN 5 FEET OF BUILDING.

BY: BKF ENGINEERS

- 7. BEFORE ASKING FINAL APPROVAL OF AN INSTALLATION BY THE IOR, RESTRAINING DEVICES, EXCEPT THRUST BLOCKS, SHALL BE CLEANED AND TESTED AND MATERIAL AND TEST CERTIFICATE SUBMITTED TO THE IOR. A TYPICAL CERTIFICATE IS SHOWN IN FIGURE 10.10.1. THIS FORM SHALL BE GIVEN TO THE IOR.
- 8. THE DEPTH OF COVERAGE OVER WATER PIPE SHALL NOT BE LESS THAN 2.5 FEET TO PREVENT MECHANICAL DAMAGE AND SHALL BE BURIED A MINIMUM OF 3 FEET UNDER DRIVEWAYS.
  9. THE METHOD USED FOR UNDERGROUND FIRE—LINES WHEN ENTERING BUILDINGS UNDER CONCRETE FOOTINGS SHALL HAVE THE STRUCTURAL ENGINEER OF
- SLEEVE WITH A NOMINAL DIAMETER 4 INCH LARGER THAN THE NOMINAL DIAMETERS OF THE SUPPLY PIPING 4 INCH NOMINAL AND LARGER. (IE: FIRE—LINES NOMINAL 6 INCH REQUIRES 10 INCH SLEEVE).

  10. PVC PIPING MAY BE INSTALLED TO 5 FEET OUTSIDE THE FOUNDATION OF ANY BUILDING OR STRUCTURE OR PARTS THEREOF. IT SHALL BE BURIED IN THE

RECORD APPROVAL. NFPA 24/NFPA 13 REQUIRES A CLEARANCE BY A PIPE

GROUND FOR ITS ENTIRE LENGTH. IT SHALL NOT BE INSTALLED WITHIN OR

UNDER ANY BUILDING OR STRUCTURE. DUCTILE PIPE SHALL BE INSTALLED

# RECORD DRAWINGS

THESE RECORD DOCUMENTS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS. BKF ENGINEERS HAS NOT VERIFIED THE ACCURACY AND/OR COMPLETENESS OF THIS INFORMATION AND SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY BE INCORPORATED HEREIN AS A RESULT. BKF ENGINEERS DOES NOT ASSUME ANY RESPONSIBILITY FOR THE FIELD MODIFICATIONS TO THE PLANS.

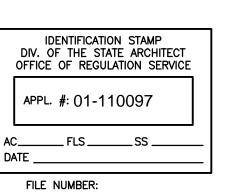
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CIVIL NOTES

C1.02