GENERAL NOTES

* PRIOR TO BEGINNING CONSTRUCTION, THE OWNER OR HIS AUTHORIZED REPRESENTATIVE SHALL SCHEDULE A PRECONSTRUCTION CONFERENCE BETWEEN THE CONSULTING ENGINEER, CONTRACTOR, EAST RIO HONDO WATER SUPPLY CORPORATION, AND ALL OTHER AFFECTED PARTIES.

* CONTRACTOR TO KEEP PUBLIC ROADS OPEN AT ALL TIMES. AREA USED FOR CONTRACTOR'S PERSONNEL PARKING, MATERIAL STORAGE, STOCKPILE, MATERIAL FABRICATION, AND RELATED CONSTRUCTION USES ARE NOT TO INTERFERE WITH NORMAL TRAFFIC.

* CONTRACTOR TO GIVE NOTICE IN WRITING TO ALL AUTHORIZED INSPECTORS. SUPERINTENDENTS, OR PERSONS IN CHARGE OF PRIVATE AND PUBLIC UTILITIES AFFECTED BY HIS OPERATIONS PRIOR TO COMMENCEMENT OF WORK.

* CONTRACTOR TO ASSURE HIMSELF THAT ALL CONSTRUCTION PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF WORK. REQUIRED PERMITS THAT CAN BE ISSUED ONLY TO CONTRACTOR TO BE OBTAINED AT HIS EXPENSE. NO SEPARATE PAY.

* UTILITY NOTE: THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE BASED UPON RECORD INFORMATION ONLY, AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION, HORIZONTAL AND VERTICAL OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, EXISTING OR ABANDONED. NO SEPARATE PAY.

* THROUGHOUT THE CONSTRUCTION, AND AT THE COMPLETION OF CONSTRUCTION THE CONTRACTOR IS TO ASSURE THAT DRAINAGE OF STORM WATER RUNOFF IS NOT BLOCKED. MAINTAIN DRAINAGE OF SITE DURING ALL PHASES OF CONSTRUCTION. DO NOT BLOCK DRAINAGE FROM ADJACENT AREAS NOR ADD FLOW TO ADJACENT AREAS.

* THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AND THE OWNER 48 HOURS PRIOR TO BEGINNING OF CONSTRUCTION IN A PARTICULAR AREA. ALL WATER VALVES AND COVERS, MANHOLE TOPS & SANITARY SEWER CLEAN OUTS, ENCOUNTERED WITHIN THE PAVEMENT AREA (WHETHER SHOWN ON THE PLANS OR NOT) ARE TO BE ADJUSTED TO FINAL PAVEMENT GRADE. NO SEPARATE PAY. THIS ITEM SHALL BE SUBSIDIARY TO THE PAVEMENT WORK.

* DAMAGES DONE TO EXISTING UTILITIES, POWER POLES, FENCES, SIGNS, MAILBOXES DRIVEWAYS, CULVERTS, PAVEMENT, DRAINAGE SYSTEMS, ETC., SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER. DRIVEWAYS SHALL BE REPAIRED ON A LIKE FOR LIKE BASIS.

* ALL ABANDONED CARS SHALL BE REMOVED FROM THE CONSTRUCTION AREA. CONTRACTOR MUST FILE APPROPRIATE COMPLAINTS WITH THE SHERIFF DEPARTMENT TO HAVE THE SHERIFF DEPARTMENT REMOVE THE CARS.

* THE CONTRACTOR SHALL HAVE A PERSON ON CALL 24 HOURS A DAY TO TAKE CARE OF MAINTENANCE ITEMS-CONSTRUCTION AREA, SIGNS ETC. THIS PERSON SHALL HAVE AUTHORITY TO ACT ON BEHALF OF THE CONTRACTOR IN EMERGENCY CONDITIONS. THE PERSON SHALL BE STATIONED CLOSE ENOUGH TO BE ON SITE WITHIN 1/2 HOUR OF NOTIFICATION. THE PERSON SHALL BE IDENTIFIED IN WRITING PRIOR TO THE START OF CONSTRUCTION. THE ON-SITE REPRESENTATIVE SHALL HAVE ACCESS TO ALL EQUIPMENT AND MATERIAL AND HAVE FULL AUTHORITY NECESSARY TO CORRECT ANY PROBLEMS. DEFICIENCIES, OR EMERGENCIES WHICH MAY ARISE. DURING NON-WORKING HOURS, AND DURING THE ABSENCE OF THE SUPERINTENDENT

* THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL RESIDENCES ALONG THE STREET DURING CONSTRUCTION.

* ALL EXISTING MAILBOXES WITHIN THE PROPOSED IMPROVEMENT AREAS ARE TO BE RELOCATED ONE FOOT BEHIND THE PROPOSED EDGE OF PAVEMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT MAILBOXES ARE NOT DAMAGED DURING CONSTRUCTION OR RELOCATION. MAILBOXES WILL BE TEMPORARILY RELOCATED AS REQUIRED BY THE US POSTAL SERVICE FOR THE DURATION OF CONSTRUCTION.

* EXCESS SPOIL PRODUCED DURING PREPARATION OF THE SUB-GRADE SHALL BE PLACED SPREAD AND COMPACTED ON-SITE IN AREAS AS INSTRUCTED BY THE ENGINEER TO ACHIEVE ADEQUATE LOT GRADING. ANY UNUSABLE MATERIAL WILL BECOME THE PROPERTY OF THE CONTRACTOR TO BE PROPERLY DISPOSED OF AT HIS EXPENSE OR TO HIS ADVANTAGE.

* THE CONTRACTOR WILL PROVIDE HIS OWN CONSTRUCTION STAKING.

* CONTRACTOR TO MATCH EXISTING PAVEMENT. SIDEWALK RAMPS AND CURB & GUTTER PAVEMENT OR ANY OTHER IMPROVEMENTS WHERE APPLICABLE.

* ALL CONCRETE AND ASPHALT DRIVEWAYS ADJUSTED, DAMAGED, OR REPLACED DURING CONSTRUCTION MUST BE SAW-CUT AT A STRAIGHT, NEAT LINE, BEFORE REPAIRING.

* ABANDONED LINES FOUND DURING CONSTRUCTION SHALL BE REMOVED. NO SEPARATE PAY. THIS WORK SHALL BE SUBSIDIARY TO THE PAVEMENT WORK.

* THE CONTRACTOR SHALL PLACE BARRICADES, FLAG-MEN, ETC. ON THIS PROJECT IN COMPLIANCE WITH THE PROCEDURE OUTLINED IN THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS." (PART IV TRAFFIC CONTROLS FOR STREET AND HIGHWAY CONSTRUCTION AND MAINTENANCE OPERATIONS, LATEST REVISION). UPON COMPLETION OF THE WORK, ALL SIGNS SHALL BE REMOVED BY THE CONTRACTOR.

* REFERENCE POINTS: THE ENGINEER WILL ESTABLISH HORIZONTAL AND VERTICAL CONTROLS ONLY (REFERENCE POINTS AND BENCHMARKS AS SHOWN ON THE CONSTRUCTION PLANS. THE CONTRACTOR MUST NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO STARTING WORK ON ANY SECTION OR PART OF THE WORK WHERE CONTROLS HAVE NOT BEEN ESTABLISHED OR ARE NOT IDENTIFIABLE OR VISIBLE TO THE CONTRACTOR. THE ENGINEER WILL UPON SUCH ADVANCE REPLACE ANY CONTROL POINTS THAT HAVE BEEN DESTROYED BY OTHERS PRIOR TO BEGINNING OF CONTRACTORS OPERATIONS. AFTER CONTROL POINTS ARE ESTABLISHED AND / OR IDENTIFIED AS OUTLINED ABOVE, MAINTENANCE OF SUCH CONTROL POINTS SHALL BE RESPONSIBILITY OF THE CONTRACTOR. ANY RE-STAKING REQUIRED FOR ANY REASON THEREAFTER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL PROVIDE ALL OTHER CONSTRUCTION STAKING (CUT STAKES, BLUE TOPPING, INTERMEDIATE STRING LINE CONTROL, ETC.) REQUIRED TO VERIFY GRADES, DEPTHS THICKNESSES, AND ALIGNMENT OF THE VARIOUS ITEMS OF CONSTRUCTION.

* CONCRETE CURB AND GUTTER, PIPE (WHICH IS DETERMINED BY THE RESIDENT INSPECTOR TO BE UNUSABLE) STRUCTURES, ETC. WHICH MUST BE REMOVED IN ORDER TO CONSTRUCT THE PROPOSED IMPROVEMENTS WILL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED AND PROPERLY DISPOSED OF AT HIS EXPENSE. THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO THE VARIOUS BID ITEMS IN THE CONTRACT.

* ALL WATER VALVES AND COVERS, MANHOLE TOPS AND SANITARY SEWER CLEAN OUTS, ENCOUNTERED WITHIN THE PAVEMENT AREA (WHETHER SHOWN ON THE PLANS OR NOT) ARE TO BE RAISED TO FINAL PAVEMENT GRADE. PAYMENT FOR SUCH WORK WILL BE SUBSIDIARY TO THE PAVEMENT BID ITEMS PROVIDED.

* EXISTING UTILITIES: THE CONTRACTORS OPERATIONS MUST BE CONDUCTED TO PREVENT UNNECESSARY INTERFERENCE WITH ANY EXISTING UTILITY SYSTEM. IF THE CONTRACTOR'S WORK REQUIRES INTERRUPTION, THE CONTRACTOR MUST COORDINATE WITH UTILITY COMPANIES EFFECTED 48 HOURS IN ADVANCE.

* MATERIALS CERTIFICATION AND TESTING: CONTRACTOR SHALL PROVIDE SUPPLIERS CERTIFICATION FOR ALL PROJECT MATERIALS CONCRETE, LIME, CALICHE BASE MATERIAL, PRE-CAST INLETS, PIPES, ETC. THAT SUCH MATERIALS DO MEET PROJECT SPECIFICATIONS PRIOR TO DELIVERY ON-SITE. CONTRACTOR SHALL PROVIDE HOT MIX ASPHALTIC CONCRETE DESIGN FROM A REPUTABLE COMMERCIAL TESTING LABORATORY. OWNER WILL PROVIDE ALL ON-SITE TESTING OF MATERIALS AND FIELD DENSITIES. ANY RE-TESTING DUE TO FAILURE OF INITIAL TESTING WILL BE CHARGED TO THE CONTRACTOR.

* STANDARD WORK HOURS: THE STANDARD WORK HOURS FOR THE OWNER IS 8:00 AM TO 5:00 PM, MONDAY THROUGH FRIDAY. SHOULD THE CONTRACTOR ELECT TO WORK ON SATURDAY, SUNDAYS OR HOLIDAYS, HE SHALL BE RESPONSIBLE FOR PAYING OVERTIME CHARGES FOR THE OWNERS PERSONNEL INVOLVED. THESE CHARGES WILL BE AT COST AND WILL BE CALCULATED EITHER AT TIME AND A HALF OR DOUBLE TIME, AS APPLICABLE TO THE PARTICULAR DAY BEING WORKED. PRE-APPROVAL SHALL BE OBTAINED FROM THE ENGINEER OR ENGINEER'S REPRESENTATIVE BY COMPLETING AND SIGNING AN OWNER'S FORM ENTITLED "CONSTRUCTION INSPECTORS OVERTIME COMPENSATION AUTHORIZATION", PRIOR TO COMMENCING ANY OVERTIME WORK

ANY WORK DONE OUTSIDE THE STANDARD WORKDAY, WITHOUT PRIOR AUTHORIZATION, SHALL BE CONSIDERED UNDER UNAUTHORIZED WORK. THE CONTRACTOR IS REQUIRED TO PAY THE OVERTIME WAGES OF THE OWNER INSPECTORS THAT WORK OVERTIME MONDAYS THROUGH FRIDAYS AT TIME AND A HALF. THE CONTRACTOR IS RESPONSIBLE FOR THE OVERTIME WAGES OF THE OWNER INSPECTORS THAT WORK HOLIDAYS AT DOUBLE TIME. MINIMUM HOURS WILL BE BILLED TO CONTRACTOR FOR CALL OUTS OR FOR INSUFFICIENT NOTICE OF TWO (2) HOURS.

* INDEMNIFICATION TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAWS AND REGULATIONS, CONTRACTOR SHALL INDEMNIFY AND HOLD HARMLESS OWNER, ENGINEER, ENGINEER'S SUB CONSULTANTS AND THE OFFICERS, DIRECTORS, EMPLOYEES, AGENTS, AND OTHER CONSULTANTS OF EACH AND ANY OF THEM FROM AND AGAINST ALL CLAIMS, COSTS, LOSSES, AND DAMAGES (INCLUDING BUT NOT LIMITED TO ALL FEES AND CHARGES OR ENGINEERS, ARCHITECTS, ATTORNEYS, AND OTHER PROFESSIONALS AND ALL COURT OR ARBITRATION OR OTHER DISPUTE RESOLUTION COSTS) CAUSED BY, ARISING OUT OF, OR RESULTING FROM, THE PERFORMANCE OF THE WORK, PROVIDED THAT ANY SUCH CLAIM, COST, LOSS OR DAMAGE: (I) IS ATTRIBUTABLE TO BODILY INJURY, SICKNESS, DISEASE, OR DEATH, OR TO INJURY TO OR DESTRUCTION OF TANGIBLE PROPERTY (OTHER THAN THE WORK ITSELF), INCLUDING THE LOSS OF USE RESULTING THEREFROM, AND (II) IS CAUSED IN WHOLE OR IN PART BY ANY NEGLIGENT ACT OR OMISSION OF CONTRACTOR, ANY SUBCONTRACTOR, ANY SUPPLIER, ANY PERSON, OR ORGANIZATION DIRECTLY OR INDIRECTLY EMPLOYED BY ANY OF THEM TO PERFORM OR FURNISH ANY OF THE WORK, OR ANYONE FOR WHOSE ACTS ANY OF THEM MAY BE LIABLE, REGARDLESS OF WHETHER OR NOT CAUSED IN PART BY ANY NEGLIGENCE OR OMISSION OF A PERSON OR ENTITY INDEMNIFIED HEREUNDER OR WHETHER LIABILITY IS IMPOSED UPON SUCH INDEMNIFIED PARTY BY LAWS AND REGULATIONS REGARDLESS OF THE NEGLIGENCE OF ANY SUCH PERSON OR ENTITY. CLAIMS, COSTS, LOSSES, DAMAGES, SUITS AND CAUSES OF ACTION, AND ANY AND ALL LIABILITY, COSTS, EXPENSES, SETTLEMENTS, DAMAGES, AND JUDGMENTS INCURRED IN CONNECTION THEREWITH (INCLUDING BUT NOT LIMITED TO ALL FEES AND CHARGES OF ENGINEERS. ARCHITECTS, ATTORNEYS, AND OTHER PROFESSIONALS, AND ALL COURT OR ARBITRATION OR OTHER DISPUTES RESOLUTION COSTS) WHETHER ARISING IN EQUITY. AT COMMON LAW, OR BY STATUTE, INCLUDING THE TEXAS DECEPTIVE TRADE PRACTICES ACTOR SIMILAR STATUTE OF OTHER JURISDICTIONS. OR UNDER THE LAW OF CONTRACTS, TORTS (INCLUDING WITHOUT LIMITATION, NEGLIGENCE AND STRICT LIABILITY WITHOUT REGARD TO FAULT) OR PROPERTY, OF EVERY KIND OR CHARACTER ... (III) IS CAUSED IN WHOLE OR IN PART BY ANY NEGLIGENT ACT OR OMISSION, OTHER FAULT, BREACH OF CONTRACT OR WARRANTY, VIOLATION OF THE TEXAS DECEPTIVE TRADE PRACTICES ACT, OR STRICT LIABILITY WITHOUT REGARD TO FAULT OF CONTRACTOR ... REGARDLESS OF WHETHER OR NOT CAUSED IN PART BY ANY NEGLIGENCE OR OMISSION, OTHER FAULT, BREACH OF CONTRACT OR WARRANTY, VIOLATION OF THE TEXAS DECEPTIVE TRADE PRACTICES ACT, OR STRICT LIABILITY WITHOUT REGARD TO FAULT OF A PERSON OR ENTITY INDEMNIFIED THEREUNDER. CONTRACTOR'S OBLIGATIONS OF INDEMNIFICATION UNDER THIS PARAGRAPH 6.20.1 SHALL NOT BE LIMITED BY THE AMOUNT OF ANY INSURANCE. * AS BUILT DRAWINGS: THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A SET

OF AS-BUILT PLANS SHOWING NOTES TO ANY CHANGES TO THE DESIGN PLANS. THIS INFORMATION, SIGNED BY ALL INSPECTORS, WILL BE SUBMITTED TO THE ENGINEER AT THE END OF CONSTRUCTION. THE PROJECT'S FINAL ACCEPTANCE AND FINAL PAYMENT WILL NOT BE APPROVED UNTIL THE CONTRACTOR HAS SUBMITTED THE REQUIRED INFORMATION NEEDED BY THE ENGINEER FOR AS-BUILT DRAWINGS.

CONCRETE MIX DESIGN

* CLARIFICATION: ALL CONCRETE USED ON THIS PROJECT SHALL CONTAIN A MINIMUM 4.5 SACKS OF CEMENTITIOUS MATERIAL PER CUBIC YARD OF CONCRETE. THE CEMENTITIOUS MATERIAL SHALL BE PORTLAND CEMENT OR A BLEND OF PORTLAND CEMENT AND FLY ASH. THE PERCENTAGE OF FLY ASH IN THE CEMENTITIOUS MATERIAL SHALL NOT EXCEED 23%. ALL CONCRETE USED IN CONCRETE CURB AND GUTTER AND VALLEY GUTTERS SHALL MEET THE ABOVE SPECIFICATION AND SHALL ALSO CONTAIN 1.5 POUNDS OF FIBER MESH PER CUBIC YARD.

* ALL EXPOSED CONCRETE SURFACES SHALL BE TREATED WITH CURING COMPOUND RESIN BASE ASTM C 309 TYPE 2 WITH PIGMENTED TINT OF FUGITIVE DYE.

* IN ADDITION TO THE ABOVE REQUIREMENTS, ALL CONCRETE SHALL TEST TO A MINIMUM 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. (OR AS SHOWN ON PLANS).

* EXPANSION JOINTS WILL BE PLACED AT CURB RETURNS. INLETS AND AT THE END OF EACH POUR WITH INTERVALS NOT TO EXCEED 40 FT. JOINTS SHALL CONSIST OF 1/2" PRE-MOLDED EXPANSION JOINT MATERIAL WITH 3, 36" X 1/2" DOWELS, ONE END GREASED AND WRAPPED. CARE MUST BE TAKEN THAT DOWELS ARE STRAIGHT AND LAID PARALLEL WITH CURB AND NO CONCRETE PLUGS OR OTHER MATERIAL BE ALLOWED THROUGH THE DOWEL HOLES OR EXPANSION MATERIAL WHICH WOULD PREVENT THE JOINT FROM OPERATION AS AN EXPANSION JOINT. EXPANSION JOINT MATERIALS SHALL BE PRE-MOLDED ASPHALT IMPREGNATED EXPANSION JOINT MATERIAL CONFORMING WITH ASTM D 994 (NOT WOOD FIBER TYPE)

* DUMMY JOINTS SHALL BE 2" DEEP AND PLACED AT MAXIMUM 10 FT. INTERVALS.

* WHEN CONNECTING TO EXISTING CURB AND GUTTER, THE CONTRACTOR SHALL DRILL AND DOWEL TWO, # 6 X 16" TIE BARS A MINIMUM OF 6" DEEP INTO EXISTING CURB AND GUTTER SECTION.

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* TYPE A MA AGGREGATE, S SOURCE. CRI MATERIAL. NO MATERIAL.

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| NOTES: | YARD LINE NOTES | |
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| MESTONE: ED LIMESTONE MATERIALS SHALL BE AS SPECIFIED BY "ITEM 247 FLEXIBLE BASE." RTMENT OF TRANSPORTATION, 1993 STANDARD SPECIFICATION FOR CONSTRUCTION OF | THE CONTRACTOR SHALL VERIFY WITH ERHWSC THAT A CUSTOMER SERVICE INSPECTION HAS BEEN CONDUCTED AND THE RESIDENCE IS APPROVED FOR HOOK UP PRIOR TO BEGINNING ANY WORK ON PRIVATE PROPERTY. ERHWSC OR THE ENGINEER'S INSPECTOR SHALL BE PRESENT FOR ALL YARDLINE CONNECTIONS. | |
| STREETS, AND BRIDGES SHALL MEET THE REQUIREMENTS AS FOLLOWS: MATERIAL SHALL BE CRUSHED STONE PRODUCED FROM OVERSIZE QUARRIED SIZED BY CRUSHING AND PRODUCED FROM A NATURALLY OCCURRING SINGLE RUSHED GRAVEL OR UNCRUSHED GRAVEL SHALL NOT BE ACCEPTABLE FOR TYPE A O BLENDING OF SOURCES AND/OR ADDITIVE MATERIALS WILL BE ALLOWED IN TYPE A | ONE-YEAR WARRANTY ALSO APPLIES TO THE YARDLINE HOOK UPS. THE CUSTOMER WILL BE RESPONSIBLE AFTER THE ONE-YEAR WARRANTY HAS EXPIRED. YARDLINE PIPING SHALL BE SCHEDULE 40 PVC. A MASTER LICENSED PLUMBER MUST MAKE CONNECTION TO CUSTOMERS WATER | |
| CLASS 1: MINIMUM COMPRESSIVE STRENGTH, 45 AT OPSI LATERAL PRESSURE AND PSI LATERAL PRESSURE. | SERVICE CONNECTION. CONTRACTOR SHALL FOLLOW THE SAFE WATER DRINKING ACT OF 1974 (CHAPTER 290) | |
| ETAINED ON SQUARE SIEVE NUMBER PERCENT RETAINED | AS ADMININSTERED BY THE TCEQ. CONTRACTOR SHALL CUT THE EXISTING WATER WELL FEED LINE AND INSTALL A HOSE BUD A MINIMUM OF 24 INCHES ABOVE NATURAL CROUND. THE HOSE BID SHALL BE | |
| 1-3/4" (44 MM) 0 7/8" (22.23 MM) 10-35 3/8" (9.5 MM) 30-50 NUMBER 4 (4.75 MM) 45-65 NUMBER 40 (0.425 MM) 70-85 ASSING THE NUMBER 40 SIEVE SHALL BE KNOWN AS "BINDER MATERIAL" AND SHALL OLLOWING REQUIREMENTS: | BIB A MINIMUM OF 24-INCHES ABOVE NATURAL GROUND. THE HOSE BIB SHALL BE SECURED TO A 4" X 4" POST (EMBEDDED A MINIMUM OF 24-INCHES DEEP). IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND CONNECT TO THE NEAREST 3/4-INCH WATER OUTLET TO MAINTAINT PROPER WATER FLOW. THE CONTRACTOR SHALL VERIFY ALL THE SOURCES OF WATER SUPPLY INTO THE HOUSE AND VERIFY ANY CROSS CONNECTIONS. IF MULTIPLE CONNECTIONS OR CROSS CONNECTIONS ARE FOUND THE CONTRACTOR SHALL NOTIFY ERHWSC PRIOR TO CONNECTING THE HOUSE TO THE PUBLIC WATER SYSTEM. | |
| MAXIMUM LIQUID LIMIT (LL) = 35 MAXIMUM PLASTICITY INDEX (PI) = 10 WET BALL MILL (MAX) = 40 CALIFORNIA BEARING RATIO (MIN) = 100 | CONTRACTOR SHALL CALL ALL NECESSARY UTILITY COMPANIES PRIOR TO THE INSTALLATION OF PROPOSED YARDLINES. IF NECESSARY, THE CONTRACTOR SHALL HAND DIG YARDLINES TO AVOID DAMAGE TO UTILITES OR PRIVATE PROPERTY. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES TO PRIVATE PROPERTY OR UTILITIES. | |
| ATE RETAINED ON THE NUMBER 10 SIEVE SHALL BE COMPRISED OF ONLY CRUSHED | STORM WATER PREVENTION PLAN NOTES: | |
| ACTOR SHALL NOT PLACE CRUSHED LIMESTONE ON THE ROAD BED UNTIL THE AS ACCEPTED THE SHAPED AND COMPACTED SUBGRADE. ACTOR MUST MAINTAIN THE ROAD BED FREE OF HOLES, RUTS AND DEPRESSIONS | 1) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL THE COSTS ASSOCIATED WITH THE DEVELOPMENT OF A STORM WATER POLLUTION PREVENTION PLAN MEETING THE | |
| ACTOR UPON REQUEST SHALL PROVIDE CERTIFICATION THAT THE MATERIAL SUPPLIED ABOVE REQUIREMENTS PRIOR TO DELIVERY TO THE JOB SITE. SAMPLES FOR TESTING ERIAL MUST BE TAKEN PRIOR TO THE COMPACTION OPERATIONS. | MOST RECENT TPDES REQUIREMENTS. 2) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL THE COSTS ASSOCIATED WITH THE IMPLEMENTATION, MAINTENANCE, AND INSPECTION OF STORM WATER POLLUTION PREVENTION CONTROL MEASURES INCLUDING, BUT NOT LIMITED TO, EROSION AND SEDIMENT CONTROLS, STORM WATER MANAGEMENT PLANS, WASTE COLLECTION AND DISPOSAL, OFF-SITE VEHICLE TRACKING, AND OTHER CONSTRUCTION PRACTICES. | |
| EXIBLE BASE: TERIALS SHALL BE AS SPECIFIED BY "ITEM 247 FLEXIBLE BASE GRADE 2." TEXAS OF TRANSPORTATION, 2004 STANDARD SPECIFICATION FOR CONSTRUCTION OF STREETS, AND BRIDGES SHALL MEET THE REQUIREMENTS AS FOLLOWS: OF 50 CBR SHALL BE ACHIEVED. | 3) AT A MINIMUM, EROSION CONTROL DEVICES SHALL BE INSTALLED IN THE ROADSIDE SWALE AT INTERVALS NOT EXCEEDING 500-FEET AND AT EVERY ENTRANCE TO DRAINAGE STRUCTURES. THE OWNER AND HIS REPRESENTATIVES HAVE THE RIGHT TO REQUEST THE CONTRACTOR TO INSTALL ADDITIONAL EROSION CONTROL DEVICES IF DEEMED NECESSARY. | |
| ETAINED ON SQUARE SIEVE NUMBERPERCENT RETAINED1/2"01/3/4"0-10NUMBER 445-75NUMBER 4060-80 | 4) PERMANENT STABILIZATION UPON COMPLETION OF THE FINAL GRADING, THE CONTRACTOR SHALL HYDROMULCH ALL DISTURBED AREAS WITHIN THE STATE AND COUNTY R.O.W. THE CONTRACTOR SHALL HYDROMULCH DISTURBED AREAS IN DEVELOPED PRIVATE PROPERTY AT A RATE OF 1 LB. PER 1000 SQUARE FEET OF UNHULLED BERMUDA SEED. DISTURBED AREAS IN UNDEVELOPED PRIVATE PROPERTY DOES NOT REQUIRE HYDROMULCHING. | |
| ASSING THE NUMBER 40 SIEVE SHALL BE KNOWN AS "BINDER MATERIAL" AND SHALL | CLEARING AND GRUBBING: | |
| OLLOWING REQUIREMENTS: MAXIMUM LIQUID LIMIT (LL) = 40 MAXIMUM PLASTICITY INDEX (PI) = 12 | 1) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL VEGETATION AS REQUIRED TO INSTALL THE PROPOSED IMPROVEMENTS HOWEVER, THE CONTRACTOR SHALL MINIMIZE THE REMOVAL TO WHAT IS NECESSARY FOR THE INSTALLATION OF THE IMPROVEMENTS. | |
| WET BALL MILL (MAX) = 45% WET BALL MILL (INCREASE PASSING #40 SIEVE) = 20% | 2) THE CONTRACTOR SHALL PROTECT VEGETATION THAT IS NOT REQUIRED TO BE REMOVED. | |
| , SAMPLING, AND TESTING OF BITUMINOUS MIXTURE (COMPACTION) | 3) ALL DEBRIS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT SITE AT HIS OWN EXPENSE. | Description |
| AND DEPTH TESTING: PER 500 FEET OF PAVING REPAIR. NSITY ACCEPTED: 92% OF AVERAGE MAXIMUM THEORETICAL DENSITY AS DETERMINED | 4) HOLES REMAINING AFTER REMOVAL OF VEGETATION SHALL BE BACKFILLED WITH APPROVED MATERIAL COMPACTED AND RESTORED TO ORIGINAL NATURAL GROUND ELEVATION. | Deso |
| NCE WITH ASTM D 2041. SAWED SAMPLES TAKEN FROM THE PAVEMENT SHALL BE USED TO DETERMINE THE TY. DENSITY OF THE CORED OR SAWED SAMPLES SHALL BE DETERMINED IN E WITH ASTM 2725. THE SAME SPECIMEN SHALL BE USED FOR DETERMINING BOTH M THEORETICAL DENSITY AND THE FIELD DENSITY. | 5) THE CONTRACTOR SHALL COORDINATE WITH E.R.H.W.S.C. PRIOR TO THE REMOVAL OF ANY PLANTED CROPS. | Revision No. Date |
| TO BE USED FOR FIELD DENSITY DETERMINATION SHALL BE DONE USING HEAT. IF NECESSARY, THE SPECIMEN SHOULD BE HEATED TO THE LOWEST TEMPERATURE OR PROPER PREPARATION OF THE SAMPLE; THE USE OF NUCLEAR FIELD DENSITY ON SHALL NOT BE USED AS A BASIS FOR ACCEPTANCE WITH RESPECT TO DENSITY : | | |
| STABILITY SHALL NOT BE LESS THAN 30%. STABILITY TEST SHALL BE TAKEN TWICE | | |

MATERIAL PASS MEET THE FOI

| MAXIMUM LIQUID LIMIT (LL) | = | 35 |
|---------------------------------|---|----|
| MAXIMUM PLASTICITY INDEX (PI) | = | 10 |
| WET BALL MILL (MAX) | = | 40 |
| CALIFORNIA BEARING RATIO (MIN) | = | 10 |

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| UTLS. | | YARD LINE NOTES | |
| ESTONE: LIMESTONE MATERIALS SHALL BE AS SPECIFIED BY "ITEM 247 FLE TMENT OF TRANSPORTATION, 1993 STANDARD SPECIFICATION FOR CO | ONSTRUCTION OF | THE CONTRACTOR SHALL VERIFY WITH ERHWSC THAT A CUSTOMER SERVICE INSPECTION HAS BEEN CONDUCTED AND THE RESIDENCE IS APPROVED FOR HOOK UP PRIOR TO BEGINNING ANY WORK ON PRIVATE PROPERTY. ERHWSC OR THE ENGINEER'S INSPECTOR SHALL BE PRESENT FOR ALL YARDLINE CONNECTIONS. | |
| REETS, AND BRIDGES SHALL MEET THE REQUIREMENTS AS FOLLOW ATERIAL SHALL BE CRUSHED STONE PRODUCED FROM OVERSIZE (SIZED BY CRUSHING AND PRODUCED FROM A NATURALLY OCCURRIN USHED GRAVEL OR UNCRUSHED GRAVEL SHALL NOT BE ACCEPTABLE | QUARRIED NG SINGLE | ONE-YEAR WARRANTY ALSO APPLIES TO THE YARDLINE HOOK UPS. THE CUSTOMER WILL BE RESPONSIBLE AFTER THE ONE-YEAR WARRANTY HAS EXPIRED. YARDLINE PIPING SHALL BE SCHEDULE 40 PVC. | |
| BLENDING OF SOURCES AND/OR ADDITIVE MATERIALS WILL BE ALLO | OWED IN TYPE A | A MASTER LICENSED PLUMBER MUST MAKE CONNECTION TO CUSTOMERS WATER SERVICE CONNECTION. | |
| CLASS 1: MINIMUM COMPRESSIVE STRENGTH, 45 AT OPSI LATERAL PI SI LATERAL PRESSURE. | | CONTRACTOR SHALL FOLLOW THE SAFE WATER DRINKING ACT OF 1974 (CHAPTER 290) AS ADMININSTERED BY THE TCEQ. | |
| TAINED ON SQUARE SIEVE NUMBER PERCENT 1-3/4" (44 MM) 0 7/8" (22.23 MM) 10-35 | <u>RETAINED</u> | CONTRACTOR SHALL CUT THE EXISTING WATER WELL FEED LINE AND INSTALL A HOSE BIB A MINIMUM OF 24—INCHES ABOVE NATURAL GROUND. THE HOSE BIB SHALL BE SECURED TO A 4"X 4"POST (EMBEDDED A MINIMUM OF 24—INCHES DEEP). | |
| 3/8" (9.5 MM) 30-50 NUMBER 4 (4.75 MM) 45-65 NUMBER 40 (0.425 MM) 70-85 SING THE NUMBER 40 SIEVE SHALL BE KNOWN AS "BINDER MATERIA | al" and shall | IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY AND CONNECT TO THE NEAREST 3/4-INCH WATER OUTLET TO MAINTAINT PROPER WATER FLOW. THE CONTRACTOR SHALL VERIFY ALL THE SOURCES OF WATER SUPPLY INTO THE HOUSE AND VERIFY ANY CROSS CONNECTIONS. IF MULTIPLE CONNECTIONS OR CROSS CONNECTIONS ARE FOUND THE CONTRACTOR SHALL NOTIFY ERHWSC PRIOR TO CONNECTING THE HOUSE | |
| LLOWING REQUIREMENTS: AXIMUM LIQUID LIMIT (LL) = 35 AXIMUM PLASTICITY INDEX (PI) = 10 ET BALL MILL (MAX) = 40 ALIFORNIA BEARING RATIO (MIN) = 100 | | TO THE PUBLIC WATER SYSTEM. CONTRACTOR SHALL CALL ALL NECESSARY UTILITY COMPANIES PRIOR TO THE INSTALLATION OF PROPOSED YARDLINES. IF NECESSARY, THE CONTRACTOR SHALL HAND DIG YARDLINES TO AVOID DAMAGE TO UTILITES OR PRIVATE PROPERTY. | |
| TE RETAINED ON THE NUMBER 10 SIEVE SHALL BE COMPRISED OF | ONLY CRUSHED | CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGES TO PRIVATE PROPERTY OR UTILITIES. | |
| TOR SHALL NOT PLACE CRUSHED LIMESTONE ON THE ROAD BED UI | NTIL THE | STORM WATER PREVENTION PLAN NOTES: | |
| S ACCEPTED THE SHAPED AND COMPACTED SUBGRADE. TOR MUST MAINTAIN THE ROAD BED FREE OF HOLES, RUTS AND DE ITION TO RECEIVE THE CRUSHED LIMESTONE. | EPRESSIONS | THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL THE COSTS ASSOCIATED WITH THE DEVELOPMENT OF A STORM WATER POLLUTION PREVENTION PLAN MEETING THE MOST RECENT TPDES REQUIREMENTS. | |
| TOR UPON REQUEST SHALL PROVIDE CERTIFICATION THAT THE MATER BOVE REQUIREMENTS PRIOR TO DELIVERY TO THE JOB SITE. SAMPLE RIAL MUST BE TAKEN PRIOR TO THE COMPACTION OPERATIONS. | | 2) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL THE COSTS ASSOCIATED WITH THE IMPLEMENTATION, MAINTENANCE, AND INSPECTION OF STORM WATER POLLUTION PREVENTION CONTROL MEASURES INCLUDING, BUT NOT LIMITED TO, EROSION AND SEDIMENT CONTROLS, STORM WATER MANAGEMENT PLANS, WASTE COLLECTION AND DISPOSAL, OFF-SITE VEHICLE TRACKING, AND OTHER CONSTRUCTION PRACTICES. | |
| IBLE BASE: | | | |
| RIALS SHALL BE AS SPECIFIED BY "ITEM 247 FLEXIBLE BASE GRADI OF TRANSPORTATION, 2004 STANDARD SPECIFICATION FOR CONSTRUC REETS, AND BRIDGES SHALL MEET THE REQUIREMENTS AS FOLLOW | CTION OF | 3) AT A MINIMUM, EROSION CONTROL DEVICES SHALL BE INSTALLED IN THE ROADSIDE SWALE AT INTERVALS NOT EXCEEDING 500-FEET AND AT EVERY ENTRANCE TO DRAINAGE STRUCTURES. THE OWNER AND HIS REPRESENTATIVES HAVE THE RIGHT TO REQUEST THE CONTRACTOR TO INSTALL ADDITIONAL EROSION CONTROL DEVICES IF DEEMED NECESSARY. | |
| DF 50 CBR SHALL BE ACHIEVED. | | 4) PERMANENT STABILIZATION UPON COMPLETION OF THE FINAL GRADING, THE | |
| TAINED ON SQUARE SIEVE NUMBER PERCENT 1/2" 0 1 3/4" 0-10 NUMBER 4 45-75 NUMBER 40 60-80 | | CONTRACTOR SHALL HYDROMULCH ALL DISTURBED AREAS WITHIN THE STATE AND COUNTY R.O.W. THE CONTRACTOR SHALL HYDROMULCH DISTURBED AREAS IN DEVELOPED PRIVATE PROPERTY AT A RATE OF 1 LB. PER 1000 SQUARE FEET OF UNHULLED BERMUDA SEED. DISTURBED AREAS IN UNDEVELOPED PRIVATE PROPERTY DOES NOT REQUIRE HYDROMULCHING. | |
| SING THE NUMBER 40 SIEVE SHALL BE KNOWN AS "BINDER MATERI | AL" AND SHALL | CLEARING AND GRUBBING: | |
| LLOWING REQUIREMENTS: AXIMUM LIQUID LIMIT (LL) = 40 AXIMUM PLASTICITY INDEX (PI) = 12 | | 1) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL VEGETATION AS REQUIRED TO INSTALL THE PROPOSED IMPROVEMENTS HOWEVER, THE CONTRACTOR SHALL MINIMIZE THE REMOVAL TO WHAT IS NECESSARY FOR THE INSTALLATION OF THE IMPROVEMENTS. | |
| ET BALL MILL (MAX) = 45% ET BALL MILL (INCREASE PASSING #40 SIEVE) = 20% | | 2) THE CONTRACTOR SHALL PROTECT VEGETATION THAT IS NOT REQUIRED TO BE REMOVED. | |
| SAMPLING, AND TESTING OF BITUMINOUS MIXTURE (COMPACTION) N AND GRADATION ANALYSIS: PER 500 TONS OR TWICE DAILY WHICH | HEVER IS | 3) ALL DEBRIS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT SITE AT HIS OWN EXPENSE. | Description |
| ND DEPTH TESTING: PER 500 FEET OF PAVING REPAIR. SITY ACCEPTED: 92% OF AVERAGE MAXIMUM THEORETICAL DENSITY | AS DETERMINED | 4) HOLES REMAINING AFTER REMOVAL OF VEGETATION SHALL BE BACKFILLED WITH APPROVED MATERIAL COMPACTED AND RESTORED TO ORIGINAL NATURAL GROUND ELEVATION. | Des |
| CE WITH ASTM D 2041. WED SAMPLES TAKEN FROM THE PAVEMENT SHALL BE USED TO DE 7. DENSITY OF THE CORED OR SAWED SAMPLES SHALL BE DETERM WITH ASTM 2725. THE SAME SPECIMEN SHALL BE USED FOR DETE THEORETICAL DENSITY AND THE FIELD DENSITY. | IINED IN | 5) THE CONTRACTOR SHALL COORDINATE WITH E.R.H.W.S.C. PRIOR TO THE REMOVAL OF ANY PLANTED CROPS. | Revision No. Date |
| D BE USED FOR FIELD DENSITY DETERMINATION SHALL BE DONE US ECESSARY, THE SPECIMEN SHOULD BE HEATED TO THE LOWEST TEM R PROPER PREPARATION OF THE SAMPLE; THE USE OF NUCLEAR FI N SHALL NOT BE USED AS A BASIS FOR ACCEPTANCE WITH RESPEC | IPERATURE ELD DENSITY | | |
| ABILITY SHALL NOT BE LESS THAN 30%. STABILITY TEST SHALL BE ⁻ | TAKEN TWICE | | |

MATERIAL PASS MEET THE FOL

| MAXIMUM LIQUID LIMIT (LL) | = | 40 |
|--|---|-----|
| MAXIMUM PLASTICITY INDEX (PI) | = | 12 |
| WET BALL MILL (MAX) | = | 45% |
| WET BALL MILL (INCREASE PASSING #40 SIEVE) | = | 20% |

ACCEPTANCE,

* EXTRACTION GREATER.

* DENSITY AN MINIMUM DENS IN ACCORDANC

CORES OR SAW FIELD DENSITY ACCORDANCE THE MAXIMUM

SPECIMENS TO HEATING IS NE REQUIRED FOR DETERMINATION

* HVEEM STA DAILY.

* RETAINED STABILITY WHEN TESTED IN ACCORDANCE WITH ASTM D 1075 SHALL NOT BE <70%

* NO MORE THAN 2¹," HMAC PAVEMENT SHALL BE LAID AT ANY GIVEN TIME. UNLESS APPROVAL IS OBTAINED AHEAD BY THE OWNER / ENGINEER.

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| Sheet Title |
| GENERAL NOTES |
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Sheet Number







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| GLE | BR/ | ٩CK |
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| BARNES BLADE SERIES OR APPROVED EQUAL |
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| SIZE RADIUS PLATE STUD ID PI 3" 3.00" .250" 1"x6" 2.5" 4"x6 4" 3.75" .250" 1"x6" 2.5" 4"x6 6" 4.75" .250" 1"x6" 2.5" 4"x6 8" 5.87" .250" 1"x6" 2.5" 4"x6 10" 7.125" .250" 1"x6" 2.5" 4"x6 | | | | | | |
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| 4" 3.75" .250" 1"x6" 2.5" 4"x6 6" 4.75" .250" 1"x6" 2.5" 4"x6 8" 5.87" .250" 1"x6" 2.5" 4"x6 10" 7.125" .250" 1"x6" 2.5" 4"x6 | | | | | | BAS PLA |
| 6" 4.75" .250" 1"x6" 2.5" 4"x6 8" 5.87" .250" 1"x6" 2.5" 4"x6 10" 7.125" .250" 1"x6" 2.5" 4"x6 | 3" | 3.00" | .250" | 1"x6" | 2.5" | 4"x6"x |
| 8" 5.87" .250" 1"x6" 2.5" 4"x6 10" 7.125" .250" 1"x6" 2.5" 4"x6 | 4" | 3.75" | .250" | 1"x6" | 2.5" | 4"x6"> |
| 10" 7.125" .250" 1"x6" 2.5" 4"x6 | 6" | 4.75" | .250" | 1"x6" | 2.5" | 4"x6"> |
| | 8" | 5.87" | .250" | 1"x6" | 2.5" | 4"x6"> |
| 12" 8 50" 250" 1"x6" 2 5" | 10" | 7.125" | .250" | 1"x6" | 2.5" | 4"x6"> |
| | 12" | 8.50" | .250" | 1"x6" | 2.5" | 4"x6"> |
| | 14" | 9.375" | .375" | 1.5"x6" | 3.5" | 8"×8"> |
| 16" 9.625" .375" 1.5"x6" 3.5" 8"x8 | 16" | 9.625" | .375" | 1.5"x6" | 3.5" | 8"x8"> |
| 18" 11.375" .375" 2"x6" 4.5" 12"x1 | 18" | 11.375" | .375" | 2"x6" | 4.5" | 12"x12' |
| 20" 12.50" .375" 2"x6" 4.5" 12"x1 | 20" | 12.50" | .375" | 2"x6" | 4.5" | 12"x12' |
| 24" 14.75" .375" 2"x6" 4.5" 12"x1 | 24" | 14.75" | .375" | 2"x6" | 4.5" | 12"x12' |
| NOTES: | NOTES: | | | | | |



