SPECIAL CONSTRUCTION NOTES:

- 1. CONTRACTOR SHALL CALL "DIG-TESS" SYSTEM (1-800-344-8377) FOR UTILITY LOCATIONS PRIOR TO ANY WORK IN CITY OR COUNTY EASEMENTS OR STREET R.O.W.
- 2. CONTRACTOR SHALL POT HOLE ALL EXISTING UTILITIES AT CONNECTION AND INTERSECTION PRIOR TO UTILITY MATERIALS BEING DELIVERED TO SITE.
- 3. ALL SITE WORK MUST ALSO COMPLY WITH ENVIRONMENTAL REQUIREMENTS.
- 4. ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD SPECIFICATIONS ITEM NO. 509 AND APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA). COPIES OF OSHA STANDARDS MAY BE PURCHASED FROM THE U.S. GOVERNMENT PRINTING OFFICE; INFORMATION AND RELATED REFERENCE MATERIALS MAY BE PURCHASED FROM OSHA, 611 E. 6TH STREET, AUSTIN, TEXAS.
- 5. THIS PROJECT IS LOCATED WITH IN THE LAKE AUSTIN WATERSHED AND IS LOCATED WITHIN THE HIGHLAND LAKES WATERSHED ORDINANCE.
- 6. NO PORTION OF THIS PROJECT IS WITHIN THE 100-YEAR FLOODPLAIN AS PER FEMA FIRM PANEL 48453C0115J AS DATED 1/22/20, FOR TRAVIS COUNTY, TEXAS.

THIS SITE IS NOT WITHIN THE EDWARDS AQUIFER RECHARGE OR CONTRIBUTING ZONE.

PROJECT DESCRIPTION:

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF 18 PARKING SPACES WITH WATER QUALITY CONSIDERATION TO AN EXISTING 3.61 ACRE DEVELOPMENT.

IC CALCULATIONS:

PROPOSED PARKING IC: 3,457 SQ. FT. EXISTING IC: 76,361 SQ. FT. TOTAL IC: 79,361 (1.83 ACRES)

PROJECT ADDRESS:

1713 HUR INDUSTRIAL BLVD. CEDAR PARK, TX 78613

DEVELOPER/OWNER:

CONTACT:
ROMAN ZRAZHEVSKIY
18009 RANCHLAND HILL VIS
JONESTOWN, TX 78645
E:ROMAN@MIRASAFTEYCOM
P:(516) 232-6858

GOODE FAITH ENGINEERING 1620 LA JAITA DR., STE. 300 CEDAR PARK, TEXAS 78613 CONTACT: ANTHONY H. GOODE, P.E.

ANTHONY@GOODEFAITHENG.COM

CIVIL ENGINEER / AGENT:

UTILITY PROVIDERS:

972.822.1682

ELECTRIC — PEC WATER — CITY OF CEDAR PARK WASTEWATER — CITY OF CEDAR PARK

PARKING ANALYSIS:

GROSS FLOOR AREA:
GROUND LEVEL (GROSS):
MEZZANINE:
TOTAL GROSS AREA:
RE: CEDAR PARK CITY CODE, SECTIO

"B" / BUISINESS

"B" / BUISINESS = 5,925 SQ. FT.

"S-1" / STORAGE = 25.625 SQ. FT.

= 2,775 SQ. FT.

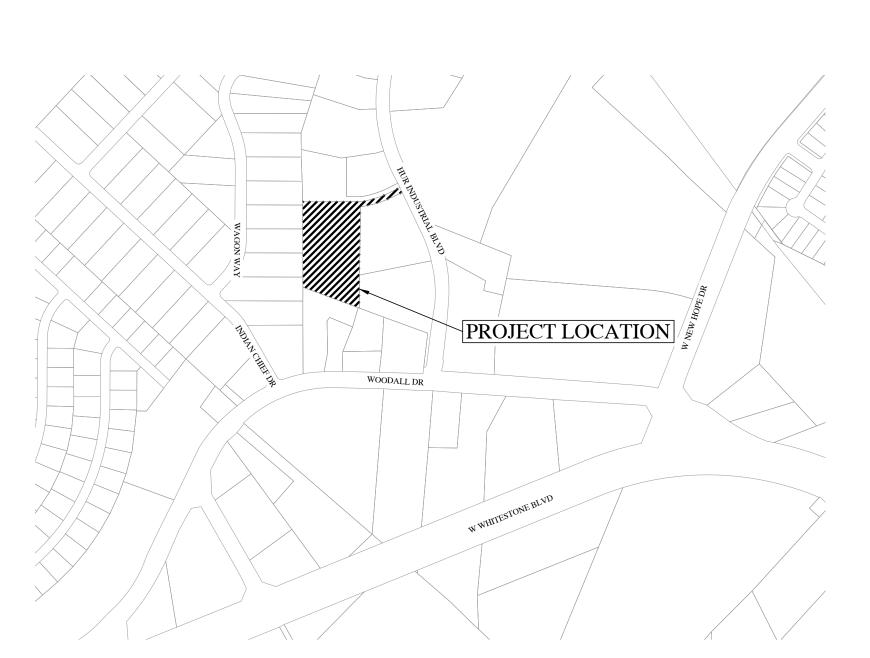
EXISTING PARKING TOTAL = 26 PROPOSED PARKING = 18 TOTAL 44

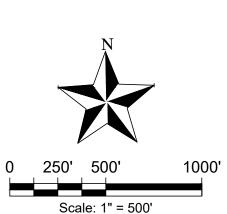
MIRA SAFETY

SITE DEVELOPMENT PLAN

CEDAR PARK, TX NOVEMBER, 2023

TDLR RESISTRATION # TABS2024004236





SHEET NUMBER	SHEET TITLE
1	COVER
2	GENERAL NOTES
3	FINAL PLAT
4	EXISTING SITE AND DEMO PLAN
5	EROSION AND SEDIMENTATION PLAN
6	EROSION AND SEDIMENTATION NOTES
7	DRAINAGE PLAN
8	POND PLAN
9	GRADING PLAN
10	TREE PRESERVATION PLAN
11	SLOPE MAP PLAN
12	UTILITY PLAN



MIKA SAFELY AL PARKING SITE DEVELOPMENT



Reviewed for Code Compliance Signature required from all Departments

Site Development Permit Number____





ITTED BY:

ANTHONY GOODE, P.E. DA
GOODE FAITH ENGINEERING, LLC.
TBPE FIRM NO. F-22664
1620 LA JAITA DR. STE 300
CEDAR PARK, TX, 78613
(972) P: 822-1682

RELEASE OF THIS APPLICATION DOES
NOT CONSTITUTE A VERIFICATION OF ALL
DATA, INFORMATION AND CALCULATIONS
SUPPLIED BY THE APPLICANT. THE
ENGINEER OF RECORD IS SOLELY
RESPONSIBLE FOR THE COMPLETENESS,
ACCURACT, AND ADEQUACY OF HIS/HER
SUBMITTAL, WHETHER OR NOT THE
APPLICATION IS REVIEWED FOR CODE
COMPLIANCE BY CITY ENGINEERS.

DWL | 10/30/2023 | 10/30/ECT NO. | XX-XXX.XX

CONSTRUCTION NOTES FOR SUBDIVISIONS AND SITE PLANS

CONSTRUCTION NOTES FOR SUBDIVISIONS & SITE PLANS CITY OF CEDAR PARK REVISED MARCH 23, 2023

GENERAL NOTES:

- 1 GENERAL CONTRACTOR SHALL CALL FOR ALL LITILITY LOCATES PRIOR TO ANY CONSTRUCTION CONTRACTOR SHALL DELINEATE AREAS OF EXCAVATION USING WHITE PAINT (WHITE LINING) IN ACCORDANCE WITH 16 TAC 18 3 WATER & WASTEWATER OWNED BY THE CITY OF CEDAR PARK CAN BE LOCATED BY CALLING TEXAS 811 AT 1- 800-344-8377. ALLOW THREE BUSINESS DAYS FOR UTILITY LOCATES BY THE CITY OF CEDAR PARK

MANUAL. ALL VARIANCES TO THE MANUAL ARE LISTED BELOW: **NO VARIANCES**

- 2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST CITY OF AUSTIN STANDARD SPECIFICATIONS. CITY OF AUSTIN STANDARDS SHALL BE USED UNLESS OTHERWISE NOTED. 3. DESIGN PROCEDURES SHALL BE IN GENERAL COMPLIANCE WITH THE CITY OF AUSTIN DRAINAGE CRITERIA
- HTTP://WWW.CEDARPARKTEXAS.GOV/INDEX.ASPX?PAGE=793. TBM #1 - BEING A SQUARE CHISSELLED ON TOP OF A HEADWALL ON THE SOUTH SIDE OF FM 1431 AND NORTHEAST SIDE OF ENTRY DRIVE, AND BEING +/- 47' NORTHEAST OF THE THE NORTHWEST CORNER OF LOT 1, BLOCK A OF THE PADDOCK.

4. BENCHMARKS SHOULD BE TIED TO THE CITY OF CEDAR PARK BENCHMARKS AND BE CORRECTLY "GEO-

REFERENCED" TO STATE PLANE COORDINATES. A LIST OF THE CITY'S BENCHMARKS CAN BE FOUND AT:

ELEV: 1078.76' NAVD 88 (GEOID18

- 5. PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY FOR A SITE DEVELOPMENT PERMIT. THE RIGHT OF WAY BETWEEN THE PROPERTY LINE AND EDGE OF PAVEMENT / BACK OF CURB SHALL BE REVEGETATED ACCORDING TO COA SPECIFICATION 602S AND 606S, PRIOR TO CITY ACCEPTANCE OF SUBDIVISION IMPROVEMENTS ALL GRADED AND DISTURBED AREAS SHALL BE RE-VEGETATED IN ACCORDANCE WITH THE CITY OF AUSTIN SPECIFICATION ITEM #604 NATIVE SEEDING UNLESS NON- NATIVE IS SPECIFICALLY
- 6. THE CONTRACTOR SHALL PROVIDE THE CITY OF CEDAR PARK COPIES OF ALL TEST RESULTS PRIOR TO ACCEPTANCE OF SUBDIVISION IMPROVEMENTS.
- 7. CITY, OWNER, ENGINEER, CONTRACTOR, REPRESENTATIVES OF ALL LITHLITY COMPANIES, AND A REPRESENTATIVE FROM THE TESTING LAB SHALL ATTEND PRE-CONSTRUCTION CONFERENCE PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL SCHEDULE THE MEETING WITH THE CITY OF CEDAR PARK ENGINEERING DEPARTMENT A MINIMUM OF 48 HOURS PRIOR TO THIS PRE-CONSTRUCTION MEETING (512-401-5000), FINAL CONSTRUCTION PLANS SHALL BE DELIVERED TO ENGINEERING A MINIMUM OF
- SEVEN BUSINESS DAYS PRIOR TO REQUESTING A PRE-CONSTRUCTION MEETING. 8. EXCESS SOIL SHALL BE REMOVED AT THE CONTRACTOR'S EXPENSE. NOTIFY THE CITY OF CEDAR PARK IF THE DISPOSAL SITE IS INSIDE THE CITY'S JURISDICTIONAL BOUNDARIES. 9. BURNING IS PROHIBITED.
- 10. ANY CHANGES OR REVISIONS TO THESE PLANS MUST FIRST BE SUBMITTED TO THE CITY BY THE DESIGN ENGINEER FOR REVIEW AND WRITTEN APPROVAL PRIOR TO CONSTRUCTION OF THE REVISION. ALL CHANGES AND REVISIONS MADE TO THE DESIGN OF UTILITIES OR IMPACTS UTILITIES SHALL USE REVISION CLOUDS TO HIGHLIGHT ALL REVISIONS OR CHANGES WITH EACH SUBMITTAL. REVISION TRIANGLES SHALL BE USED TO MARK REVISIONS. ALL CLOUDS AND TRIANGLE MARKERS FROM PREVIOUS REVISIONS MAY BE REMOVED. REVISION INFORMATION SHALL BE UPDATED IN THE APPROPRIATE AREAS OF THE TITLE BLOCK. 11 MINIMUM SETBACK REQUIREMENTS FOR EXISTING AND NEWLY PLANTED TREES FROM THE FDGE OF PAVEMENT TO CONFORM TO THE REQUIREMENTS AS SHOWN IN TABLE 6-1 OF THE CITY OF AUSTIN'S
- 12. THE CONTRACTOR WILL REIMBURSE THE CITY FOR ALL COST INCURRED AS A RESULT OF ANY DAMAGE TO ANY CITY UTILITY OR ANY INFRASTRUCTURE WITHIN THE RIGHT-OF-WAY BY THE CONTRACTOR, REGARDLESS OF THESE PLANS
- 13. AN ENGINEER'S CONCURRENCE LETTER AND ELECTRONIC 22"X34" RECORD DRAWINGS SHALL BE SUBMITTED TO THE ENGINEERING DEPARTMENT PRIOR TO THE ISSUANCE OF CERTIFICATE OF OCCUPANCY OR SUBDIVISION ACCEPTANCE. THE ENGINEER AND CONTRACTOR SHALL VERIFY THAT ALL FINAL REVISIONS AND CHANGES HAVE BEEN MADE TO RECORD DRAWINGS PRIOR TO CITY SUBMITTAL, RECORD CONSTRUCTION DRAWINGS, INCLUDING ROADWAY AND ALL UTILITIES, SHALL BE PROVIDED TO THE CITY IN AUTOCAD ". DWG" FILES AND ".PDF" FORMAT ON A CD OR DVD. LINE WEIGHTS, LINE TYPES AND TEXT SIZE SHALL BE SUCH THAT IF HALF-SIZE PRINTS (11"X 17") WERE PRODUCED, THE PLANS WOULD STILL BE LEGIBLE. ALL REQUIRED DIGITAL FILES SHALL CONTAIN A MINIMUM OF TWO (2) CONTROL POINTS REFERENCED TO THE STATE PLANE GRID COORDINATE SYSTEM - TEXAS CENTRAL ZONE (4203), IN US FEET AND SHALL INCLUDE ROTATION INFORMATION AND SCALE FACTOR REQUIRED TO REDUCE SURFACE COORDINATES TO GRID COORDINATES IN US FEET
- 14. THE CITY OF CEDAR PARK HAS NOT REVIEWED THESE PLANS FOR COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT. IT IS THE RESPONSIBILITY OF THE OWNER TO PROVIDE COMPLIANCE WITH ALL LEGISLATION RELATED TO ACCESSIBILITY WITHIN THE LIMITS OF CONSTRUCTION SHOWN IN THESE PLANS.
- 15. ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY OF CEDAR PARK MUST RELY ON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.
- 16. NO BLASTING IS ALLOWED ON THIS PROJECT.

TRANSPORTATION CRITERIA MANUAL.

- 17. A TRAFFIC CONTROL PLAN, IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, SHALL BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO ANY PARTIAL OR COMPLETE ROADWAY CLOSURES. TRAFFIC CONTROL PLANS SHALL BE SITE SPECIFIC AND SEAL BY A REGISTERED PROFESSIONAL ENGINEER.
- 18. THE CONTRACTOR SHALL KEEP THE SITE CLEAN AND MAINTAINED AT ALL TIMES. TO THE SATISFACTION OF THE CITY. THE SUBDIVISION WILL NOT BE ACCEPTED (OR CERTIFICATE OF OCCUPANCY ISSUED) UNTIL THE SITE HAS BEEN CLEANED TO THE SATISFACTION OF THE CITY. 19. SIGNS ARE NOT PERMITTED IN PUBLIC UTILITY EASEMENTS, SET BACKS OR DRAINAGE EASEMENTS.
- 20. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT TEMPORARY EROSION CONTROLS ON A DAILY BASIS. ADJUST THE CONTROLS AND/OR REMOVE ANY SEDIMENT BUILDUP AS NECESSARY. A STOP WORK ORDER AND/OR FINE MAY BE IMPOSED IF THE EROSION CONTROLS ARE NOT MAINTAINED.
- 21. A FINAL CERTIFICATE OF OCCUPANCY WILL NOT BE ISSUED ON COMMERCIAL SITES UNTIL ALL DISTURBED AREAS HAVE BEEN RE-VEGETATED. SUBSTANTIAL GRASS COVER. AS DETERMINED BY ENGINEERING DEPARTMENT, MUST BE ACHIEVED PRIOR TO THE ISSUANCE OF A FINAL CERTIFICATE OF OCCUPANCY, ALL FROSION CONTROLS MUST REMAIN IN PLACE AND MAINTAINED LINTIL ALL DISTURBED AREAS HAVE BEEN RE-VEGETATED TO THE ACCEPTANCE OF THE CITY OF CEDAR PARK ENGINEERING DEPARTMENT. PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY FOR A SITE DEVELOPMENT PERMIT. THE RIGHT OF WAY BETWEEN THE PROPERTY LINE AND EDGE OF PAVEMENT / BACK OF CURB SHALL BE REVEGETATED
- ACCORDING TO COA SPECIFICATION 602S AND 606S. 22. CONTRACTOR WILL BE RESPONSIBLE FOR KEEPING ROADS AND DRIVES ADJACENT TO AND NEAR THE SITE FREE FROM SOIL. SEDIMENT AND DEBRIS. CONTRACTOR WILL NOT REMOVE SOIL. SEDIMENT OR DEBRIS FROM ANY AREA OR VEHICLE BY MEANS OF WATER. ONLY SHOVELING AND SWEEPING WILL BE ALLOWED. CONTRACTOR WILL BE RESPONSIBLE FOR DUST CONTROL FROM THE SITE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY RESULT IN A STOP WORK ORDER OR A FINE.
- 23. ALL WET UTILITIES SHALL BE INSTALLED AND ALL DENSITIES MUST HAVE PASSED INSPECTION(S) PRIOR TO THE INSTALLATION OF DRY UTILITIES.

24. A MINIMUM OF SEVEN DAYS OF CURE TIME IS REQUIRED FOR HMAC PRIOR TO THE INTRODUCTION OF

- VEHICULAR TRAFFIC TO ANY STREETS. 25. PRIOR TO PLAN APPROVAL, THE ENGINEER SHALL SUBMIT TO THE ENGINEERING DEPARTMENT DOCUMENTATION OF SUBDIVISION/SITE REGISTRATION WITH THE TEXAS DEPARTMENT OF LICENSING AND REGULATIONS (TDLR) AND PROVIDE DOCUMENTATION OF REVIEW AND COMPLIANCE OF THE
- SUBDIVISION/SITE CONSTRUCTION PLANS WITH TEXAS ARCHITECTURAL BARRIERS ACT (TABA). 26. PRIOR TO SUBDIVISION/SITE ACCEPTANCE, THE ENGINEER/DEVELOPER-OWNER SHALL SUBMIT TO THE ENGINEERING DEPARTMENT DOCUMENTATION THAT THE SUBDIVISION/SITE WAS INSPECTED BY TDLR OR A REGISTERED ACCESSIBILITY SPECIALIST (RAS) AND THE SUBDIVISION/SITE IS IN COMPLIANCE WITH THE
- REQUIREMENTS OF THE TABA. 27. ALL CONSTRUCTION AND CONSTRUCTION RELATED ACTIVITIES SHALL BE PERFORMED MONDAY THRU FRIDAY FROM 7:00 A.M. TO 6:00 P.M. HOWEVER, CONSTRUCTION ACTIVITIES WITHIN ONE HUNDRED FEET (100') OF A DWELLING OR DWELLING UNIT SHALL BE PERFORMED BETWEEN THE HOURS OF 8:00 A.M. AND 6:00 P.M. OTHERWISE ALL CONSTRUCTION AND CONSTRUCTION RELATED ACTIVITIES SHALL
- CONFORM TO CITY OF CEDAR PARK CODE OF ORDINANCES, SPECIFICALLY ARTICLE 8.08. 28. APPROVAL FOR CONSTRUCTION ACTIVITIES PERFORMED ON OWNER'S HOLIDAYS, AND/OR SATURDAYS. OUTSIDE OF MONDAY THROUGH FRIDAY 8 AM TO 5 PM. OR IN EXCESS OF 8 HOURS PER DAY SHALL BE OBTAINED IN WRITING 48 HOURS IN ADVANCE. AND INSPECTION FEES AT 1.5 TIMES THE HOURLY INSPECTION RATE SHALL BE BILLED DIRECTLY TO THE CONTRACTOR. THERE SHALL BE NO CONSTRUCTION OR CONSTRUCTION RELATED ACTIVITIES PERFORMED ON SUNDAY. THE CITY RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO UNCOVER ALL WORK PERFORMED WITHOUT CITY INSPECTION.
- 29. ALL POLES TO BE APPROVED BY CITY AND PEC, NO CONDUIT SHALL BE INSTALLED DOWN LOT LINES / BETWEEN HOMES. ALL CONDUIT SHALL BE LOCATED IN THE PUBLIC ROW OR IN AN EASEMENT ADJACENT TO AND PARALLEL TO THE PUBLIC ROW.
- 30. DRY UTILITIES SHALL BE INSTALLED AFTER SUBGRADE IS CUT AND BEFORE FIRST COURSE BASE. NO TRENCHING OF COMPACTED BASE. IF NECESSARY DRY UTILITIES INSTALLED AFTER FIRST COURSE BASE SHALL BE BORED ACROSS THE FULL WIDTH OF THE ROW.
- 31. NO PONDING OF WATER SHALL BE ALLOWED TO COLLECT ON OR NEAR THE INTERSECTION OF PRIVATE DRIVEWAY(S) AND A PUBLIC STREET. RECONSTRUCTION OF THE DRIVEWAY APPROACH SHALL BE AT THE CONTRACTOR'S EXPENSE.
- 32. ALL DRIVEWAY APPROACHES SHALL HAVE A UNIFORM TWO PERCENT SLOPE WITHIN THE ROW UNLESS APPROVED IN WRITING BY THE ENGINEERING DEPARTMENT
- 33. CONTRACTORS ON SITE SHALL HAVE AN APPROVED SET OF PLANS AT ALL TIMES. FAILURE TO HAVE AN APPROVED SET MAY RESULT IN A STOP WORK ORDER. 34. CONTRACTOR TO CLEAR FIVE FEET BEYOND ALL RIGHT OF WAY TO PREVENT FUTURE VEGETATIVE GROWTH
- INTO THE SIDEWALK AREAS. 35. THERE SHALL BE NO WATER OR WASTEWATER APPURTENANCES, INCLUDING BUT NOT LIMITED TO. VALVES, FITTINGS, METERS, CLEAN-OUTS, MANHOLES, OR VAULTS IN ANY DRIVEWAY, SIDEWALK, TRAFFIC
- OR PEDESTRIAN AREA. 36. SIDEWALKS SHALL NOT USE CURB INLETS AS A PARTIAL WALKING SURFACE. SIDEWALKS SHALL NOT USE TRAFFIC CONTROL BOXES, METER OR CHECK VALVE VAULTS, COMMUNICATION VAULTS, OR OTHER BURIED OR PARTIALLY BURIED INFRASTRUCTURE AS A VEHICULAR OR PEDESTRIAN SURFACE.

STREET NOTES:

- 1. NO TRENCHING OF COMPACTED BASE WILL BE ALLOWED. A PENALTY AND/OR FINE MAY BE IMPOSED TO THE GENERAL CONTRACTOR IF TRENCHING OF COMPACTED BASE OCCURS WITHOUT CITY APPROVAL,
- REGARDLESS OF WHO PERFORMED THE TRENCHING. 2. ALL SIDEWALKS SHALL COMPLY WITH THE AMERICANS WITH DISABILITIES ACT. THE CITY OF CEDAR PARK HAS NOT REVIEWED THESE PLANS FOR COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT, OR ANY OTHER ACCESSIBILITY LEGISLATION, AND DOES NOT WARRANTY OR APPROVE THESE PLANS FOR ANY ACCESSIBILITY STANDARDS.

- 3. STREET BARRICADES SHALL BE INSTALLED ON ALL DEAD END STREETS AND AS NECESSARY DURING CONSTRUCTION TO MAINTAIN JOB SAFETY.
- 4. ANY DAMAGE CAUSED TO EXISTING PAVEMENT, CURBS, SIDEWALKS, RAMPS, ETC., SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE
- 5. AT INTERSECTIONS, WHICH HAVE VALLEY DRAINAGE, THE CROWN TO THE INTERSECTING STREET WILL BE CULMINATED AT A DISTANCE OF 40 FT. FROM THE INTERSECTING CURB LINE UNLESS OTHERWISE NOTED.
- THE SUBGRADE MATERIAL WAS TESTED BY ___ THE PAVEMENT SECTIONS WERE DESIGNED ACCORDINGLY. THE PAVEMENT SECTIONS ARE TO BE CONSTRUCTED AS FOLLOWS:
- 7. DENSITY TESTING OF COMPACTED SUBGRADE MATERIAL, FIRST COURSE AND SECOND COURSE COMPACTED BASE, SHALL BE MADE AT 500 FOOT INTERVALS
- 8. ALL DENSITY TESTING IS THE RESPONSIBILITY OF THE OWNER OR CONTRACTOR AND SHALL BE WITNESSED BY THE CITY OF CEDAR PARK'S PROJECT REPRESENTATIVE. THE CONTRACTOR IS TO NOTIFY THE CITY 48 HOURS PRIOR TO SCHEDULED DENSITY TESTING.
- 9. TRAFFIC CONTROL SIGNS AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND INSTALLED AS DIRECTED BY THE CITY OF CEDAR PARK PRIOR TO CITY ACCEPTANCE OF THE SUBDIVISION.
- 10. SLOPE OF NATURAL GROUND ADJACENT TO THE RIGHT-OF-WAY SHALL NOT EXCEED 3:1. IF A 3:1 SLOPE IS NOT POSSIBLE. A RETAINING WALL OR SOME OTHER FORM OF SLOPE PROTECTION APPROVED BY THE CITY
- SHALL BE PLACED IN A LOCATION ACCEPTABLE TO THE CITY 11. THE CITY, ENGINEER, CONTRACTOR, AND A REPRESENTATIVE FROM THE ASPHALT TESTING LAB SHALL ATTEND A PRE-PAVING CONFERENCE PRIOR TO THE START OF HMAC PAVING. THE CONTRACTOR SHALL

GIVE THE CITY A MINIMUM OF 48 HOURS NOTICE PRIOR TO THIS MEETING (512-401-5000).

- 12. THE CONTRACTOR OR OWNER IS RESPONSIBLE FOR CONDUCTING TESTS ON ASPHALT PAVEMENT IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN THE CITY OF AUSTIN STANDARD SPECIFICATION NO. 340. ANY RE-TESTING OF THE ASPHALT PAVEMENT SHALL BE CONDUCTED UNDER THE SUPERVISION OF THE ENGINEER AND THE CITY OF CEDAR PARK. RE-TESTING OF THE ASPHALT PAVEMENT SHALL BE LIMITED TO ONE RETEST PER PROJECT.
- 13. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL COMPLY WITH MUTCD STANDARDS. STREET NAME LETTER SIZING SHALL BE IN ACCORDANCE WITH MUTCDTABLE2D-2.PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
- 14. ALL STREET NAME SIGNS SHALL BE HIGH INTENSITY RETRO GRADE.
- 15. NO FENCING OR WALL IS ALLOWED TO BE CONSTRUCTED SO THAT IT OBSTRUCTS THE SIGHT LINES OF DRIVERS FROM AN INTERSECTING PUBLIC ROADWAY OR FROM AN INTERSECTING PRIVATE DRIVEWAY SIGHT LINES ARE TO BE MAINTAINED AS DESCRIBED IN CITY CODE SECTION 14.05.007. INSTALLING A FENCE OR WALL WHICH DOES NOT COMPLY WITH THE CITY'S SIGHT DISTANCE REQUIREMENTS OR FENCING REGULATIONS IS A VIOLATION OF THE CITY'S ORDINANCE AND MAY BE PUNISHABLE PURSUANT TO SECTION 1.01.009 OF CITY CODE.
- 16 TEMPORARY ROCK CRUSHING OPERATIONS ARE NOT ALLOWED. ALL SOURCES FOR FLEXIBLE BASE MATERIAL ARE REQUIRED TO BE APPROVED BY THE CITY, PRIOR TO BASE PLACEMENT ALL CURRENT TRIAXIAL TEST REPORTS FOR THE PROPOSED STOCKPILES ARE TO BE SUBMITTED TO THE CITY'S PROJECT REPRESENTATIVE FOR REVIEW AND APPROVAL.
- 17. UTILITY SERVICE BOXES OR OTHER UTILITY FACILITIES SHALL NOT BE INSTALLED WITHIN AREAS DETERMINED TO BE REQUIRED SIGHT LINES OF TWO INTERSECTING PUBLIC STREETS OR WITHIN SIGHT LINES OF A PRIVATE DRIVEWAY. SIGHT LINES ARE TO BE MAINTAINED COMPLIANT WITH TABLE 1-1 OF THE AUSTIN TRANSPORTATION CRITERIA MANUAL, UTILITIES DETERMINED BY THE DIRECTOR OF ENGINEERING TO BE PLACED WITHIN REQUIRED SIGHT LINES MAY BE REQUIRED TO BE RELOCATED AT THE EXPENSE OF THE CONTRACTOR PRIOR TO THE CITY ISSUING A CERTIFICATE OF OCCUPANCY OR PRIOR TO THE CITY'S ACCEPTANCE OF THE PROJECT IMPROVEMENTS.
- 18. ALL LANE CLOSURES SHALL OCCUR ONLY BETWEEN THE HOURS OF 9 AM AND 4 PM. ANY NIGHT TIME LANE CLOSURES REQUIRE APPROVAL BY THE DIRECTOR OF ENGINEERING AND SHALL OCCUR BETWEEN THE HOURS OF 8 PM AND 6 AM. LANE CLOSURES OBSERVED BY CITY DURING THE PEAK HOURS OF 6 AM TO 9 AM, OR 4 PM TO 8 PM WILL BE SUBJECT TO FINE PER CHAPTER 1 OF CITY ORDINANCE, AND/OR SUBSEQUENT ISSUANCE OF WORK STOPPAGE.
- 19. IMPROVEMENTS THAT INCLUDE RECONSTRUCTION OF AN EXISTING TYPE II DRIVEWAY SHALL BE DONE IN A MANNER WHICH RETAINS OPERATIONS OF NOT LESS THAN HALF OF THE DRIVEWAY AT ALL TIMES. FULL CLOSURE OF SUCH DRIVEWAY CAN BE CONSIDERED WITH WRITTEN AUTHORIZATION RETAINED BY THE CONTRACTOR FROM THE PROPERTY OWNER(S) OR ACCESS EASEMENT RIGHT HOLDER(S) OF THE DRIVEWAY ALLOWING FULL CLOSURE OF THE DRIVEWAY 20. TREES MUST NOT OVERHANG WITHIN 10' VERTICALLY OF A SIDEWALK, OR 18' VERTICALLY OF A ROADWAY
- OR DRIVEWAY

WASTEWATER NOTES:

- 1. REFER TO THE CITY OF CEDAR PARK PUBLIC WORKS UTILITY POLICY AND SPECIFICATIONS MANUAL. 2. MANHOLE FRAMES AND COVERS AND WATER VALVE BOXES SHALL BE RAISED TO FINISHED PAVEMENT GRADE AT THE OWNER'S EXPENSE BY THE CONTRACTOR WITH THE CITY APPROVAL. ALL UTILITY ADJUSTMENTS SHALL BE COMPLETED PRIOR TO FINAL PAVING CONSTRUCTION. 3. THE LOCATION OF ANY EXISTING UTILITY LINES SHOWN ON THESE PLANS MAY NOT BE ACCURATE. ANY
- DAMAGE TO EXISTING UTILITY LINES, BOTH KNOWN AND UNKNOWN, SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR. THE CONTRACTOR SHALL LOCATE ALL UTILITIES PRIOR TO BIDDING THE PROJECT. 4. ALL IRON PIPE AND FITTINGS SHALL BE WRAPPED WITH AT LEAST 8 MIL. POLYETHYLENE WRAP. 5. ALL WATER MAINS, WASTEWATER MAINS AND SERVICE LINES SHALL MEET CITY OF AUSTIN MINIMUM
- COVER SPECIFICATIONS. ALL STREETS ARE TO BE CUT TO SUBGRADE PRIOR TO INSTALLATION OF WATER MAINS OR CUTS WILL BE ISSUED BY THE ENGINEER. 6. WHERE 48-INCHES OF COVER BELOW SUBGRADE CANNOT BE ACHIEVED FOR WASTEWATER SERVICE LINES ALTERNATE MATERIALS MAY BE USED. A MINIMUM OF 36-INCHES OF COVER BELOW SUBGRADE SHALL BE ACHIEVED. ANY WASTEWATER SERVICE LINE WITH COVER BETWEEN 36-INCH AND 48- INCHES SHALL BE
- SDR-26 PVC PRESSURE PIPE 7. GASKETED PVC SEWER MAIN FITTINGS SHALL BE USED TO CONNECT SDR-35 PVC TO SDR-26 PVC PRESSURE

8. PIPE MATERIALS TO BE USED FOR CONSTRUCTION OF UTILITY LINES: WASTEWATER- N/A FORCE MAIN- N/A

- (NOTE: IF USING PVC, SDR-26 IS REQUIRED, SDR-35 WW IS NOT ALLOWED. FORCEMAINS SHALL BE EPOXY LINED DUCTILE IRON) 9. ALL SANITARY SEWERS, EXCLUDING SERVICE LINES, SHALL BE MANDREL TESTED PER TCEQ (TEXAS COMMISSION ON ENVIRONMENTAL QUALITY) CRITERIA. A MANDREL TEST WILL NOT BE PERFORMED UNTIL
- BACKFILL HAS BEEN IN PLACE FOR A MINIMUM OF 30 DAYS. 10. ALL WASTEWATER LINES 10" AND LARGER SHALL BE VIDEO INSPECTED IN ACCORDANCE WITH CITY OF CEDAR PARK PUBLIC WORKS DEPARTMENT UTILITY POLICY AND STANDARD SPECIFICATIONS MANUAL APPENDIX E: REQUIREMENTS FOR VIDEO INSPECTION OF WASTEWATER LINES AT THE CONTRACTOR'S EXPENSE. NO SEPARATE PAY UNLESS NOTED ON THE BID FORM.
- 11. ALL SANITARY SEWERS, INCLUDING SERVICE LINES, SHALL BE AIR TESTED PER CITY OF AUSTIN STANDARD SPECIFICATIONS.
- 12. DENSITY TESTING OF COMPACTED BACKFILL SHALL BE MADE AT A RATE OF ONE TEST PER TWO FOOT LIFTS PER 500 FEET OF INSTALLED PIPE. 13. CITY SHALL BE GIVEN 48 HOURS NOTICE PRIOR TO ALL TESTING OF WATER AND WASTEWATER LINES. CITY 7. ALL PIPE BEDDING MATERIAL SHALL CONFORM TO CITY OF AUSTIN STANDARD SPECIFICATIONS. INSPECTION IS REQUIRED FOR ALL TESTING OF WATER AND WASTEWATER LINES.
- 14. WHERE A WATER OR WASTEWATER LINE CROSSES ABOVE (OR BELOW) A STORM SEWER STRUCTURE AND THE BOTTOM (OR TOP) OF THE PIPE IS WITHIN 18 INCHES OF THE TOP (OR BOTTOM) OF THE UTILITY STRUCTURE, THE PIPE SHALL BE ENCASED WITH CONCRETE FOR A DISTANCE OF AT LEAST 1 FT. ON EITHER SIDE OF THE DITCH LINE OF THE UTILITY STRUCTURE OR THE STORM SEWER. CONCRETE ENCASEMENT WILL NOT BE REQUIRED FOR DUCTILE IRON (THICKNESS CLASS 50), AWWA C-900 (SDR- 18) 150 PSI RATED PVC IN SIZES TO 12 INCHES OR AWWA C-905 (SDR-25) 165 PSI RATED PVC IN SIZES LARGER THAN 12 INCHES.
- CONCRETE ENCASEMENT SHALL CONFORM TO C.O.A. STANDARD DETAIL 505-1. 15. THE ALLOWABLE (MAXIMUM) ADJUSTMENT FOR A MANHOLE SHALL BE 12" (INCHES) OR LESS. 16. WHERE A SEWER LINE CROSSES A WATER LINE, THE SEWER LINE SHALL BE ONE 20 FT. JOINT OF 150 PSI RATED PVC CENTERED ON CROSSING
- 18. CONTRACTOR TO NOTIFY, AND OBTAIN APPROVAL FROM, THE CITY OF CEDAR PARK 48 HOURS PRIOR TO CONNECTING TO EXISTING CITY UTILITIES. 19. ALL PIPE BEDDING MATERIAL SHALL CONFORM TO CITY OF AUSTIN STANDARD SPECIFICATIONS. 20. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER ALL CONCRETE IS TO BE CLASS "A" (5 SACK, 3000 PSI ~

17. ALL MANHOLE AND INLET COVERS SHALL READ "CITY OF CEDAR PARK".

- 28-DAYS), AND ALL REINFORCING STEEL TO BE ASTM A615 60. 21. ALL WASTEWATER MANHOLES TO BE COATED WITH ORGANIC MATERIALS AND PROCEDURES LISTED IN CITY OF AUSTIN QUALIFIED PRODUCTS LIST NO. WW-511 (WW-511A AND WW-511B ARE NOT ALLOWED UNLESS MANHOLE IS BEING STRUCTURALLY REHABILITATED WITH APPROVAL BY PUBLIC WORKS). ALL
- MANHOLES WILL BE PRE-COATED OR COATED AFTER TESTING. 22. POLYBRID COATINGS ON WASTEWATER MANHOLES WILL NOT BE ALLOWED. ANY OTHER PRODUCT APPEARING ON THE COA SPL WW-511 IS ACCEPTABLE.
- 23. ALL PENETRATIONS OF EXISTING WASTEWATER MANHOLES ARE REQUIRED TO BE RE-COATED IN ACCORDANCE WITH THE SPECIFICATIONS LISTED IN NOTE 20. 24. ALL MANHOLES WILL BE VACUUM TESTED ONLY.
- 25. TRACER TAPE AND MARKING TAPE SHALL BE INSTALLED ON ALL WATER AND WASTEWATER MAINS IN ACCORDANCE WITH CITY OF AUSTIN STANDARDS, REGARDLESS OF THE TYPE OF PIPE. 26. ALL PRESSURE PIPE SHALL HAVE MECHANICAL RESTRAINT AND CONCRETE THRUST BLOCKING AT ALL VALVES, BENDS, TEES, PLUGS, AND OTHER FITTINGS.

- 1. REFER TO THE CITY OF CEDAR PARK PUBLIC WORKS UTILITY POLICY AND SPECIFICATIONS MANUAL. 2. THE TOP OF VALVE STEMS SHALL BE AT LEAST 18", AND NO MORE THAN 36", BELOW FINISHED GRADE. VALVE STEM RISERS SHALL BE WELDED ON EACH END TO THE CITY'S SATISFACTION
- 3. FIRE HYDRANT LEADS TO BE DUCTILE IRON, CLASS 350, AND INSTALLED PER CITY OF AUSTIN STANDARD SPECIFICATIONS AND DETAIL. 4. PRIOR TO INSTALLATION OF FIRE HYDRANTS, THE ENGINEER WILL PROVIDE THE CONTRACTOR ONE (1) CUT FROM A HUB PIN, ESTABLISHING THE ELEVATION OF THE BURY LINE.
- 5. THE ENGINEER SHALL PROVIDE CUTS FOR ALL WATER LINES AT ALL STORM SEWER CROSSINGS TO THE CITY OF CEDAR PARK. 6. PIPE MATERIALS TO BE USED FOR CONSTRUCTION OF UTILITY LINES:
- WATER N/A
 - COPPER PIPE AND FITTINGS ARE NOT PERMITTED WITHIN THE RIGHT-OF-WAY. MINIMUM DR-14 12" DIA AND SMALLER. MINIMUM CLASS 250 DI LARGER THAN 12" DIA.

- APPROVED 5 ¼" FIRE HYDRANTS:
 - AMERICAN FLOW CONTROL, B84B
 - MUELLER COMPANY, SUPER CENTURION 250 CLOW MEDALLION HYDRANT
- REQUIREMENTS FOR PRIVATE FIRE HYDRANTS (BEHIND DOUBLE CHECK BACKFLOW PREVENTION
- ASSEMBLY): MUST BE IN ACCORDANCE WITH CITY OF AUSTIN SPECIFICATIONS ALL FIRE HYDRANTS MUST MEET CITY OF CEDAR PARK THREAD SPECIFICATIONS (NATIONAL THREAD) BLUE REFLECTOR MARKERS SHALL BE LOCATED ON THE CENTERLINE OF THE PAVEMENT ACROSS FROM
- STAINLESS STEEL TAPPING SLEEVES WITH ALL STAINLESS HARDWARE, OR APPROVED EQUAL, REQUESTS FOR ALTERNATE PROVIDERS SHALL BE MADE TO THE CITY OF CEDAR PARK PUBLIC WORKS. NO TAP EXCEEDING 2" IN DIAMETER WILL BE APPROVED. 9. ALL WATER LINES, INCLUDING SERVICE LINES, SHALL BE PRESSURE AND LEAK TESTED PER CITY OF AUSTIN

8. SHOULD A TAPPING SADDLE BE APPROVED BY PUBLIC WORKS. THE SADDLE SHALL BE SMITH-BLAIR 662

ALL FIRE HYDRANTS, PAVEMENT MARKERS AT INTERSECTIONS SHALL BE FOUR-SIDED.

- STANDARD SPECIFICATIONS AND WITNESSED BY THE CITY OF CEDAR PARK REPRESENTATIVE. ALL TESTING IS TO BE THE RESPONSIBILITY OF THE CONTRACTOR, AND THE CONTRACTOR MAY BE REQUIRED TO RE-TEST LINES IF THE TESTING IS NOT WITNESSED BY THE CITY. CONTRACTOR MUST NOTIFY THE CITY OF CEDAR PARK 48 HOURS PRIOR TO ANY TESTING.
- 10. ALL WATER LINES SHALL BE STERILIZED AND BACTERIOLOGICALLY TESTED IN ACCORDANCE WITH CITY OF ALISTIN STANDARDS. THE CONTRACTOR IS RESPONSIBLE FOR STERILIZATION AND THE CITY OF CEDAR PARK IS RESPONSIBLE FOR SUBMITTING BACTERIOLOGICAL SAMPLES TO THE STATE, PUBLIC WORKS WILL
- REQUIRE A CONTRACTOR SPECIALIZED IN DISINFECTION FOR LARGE DIAMETER LINES OR CRITICAL INFRASTRUCTURE. SUBSIDIARY TO PIPE INSTALLATION. 11. DENSITY TESTING OF COMPACTED BACKFILL SHALL BE MADE AT A RATE OF ONE TEST PER TWO FOOT LIFTS
- PER 500 FEET OF INSTALLED PIPE 12. CONTRACTOR TO OBTAIN A WATER METER FROM THE CITY OF CEDAR PARK FOR ANY WATER THAT MAY BE
- REQUIRED DURING CONSTRUCTION. (512-401-5000) 13. ALL WATER METER BOXES SHALL BE FORD GULF METER BOX WITH LOCKING LID.
- SINGLE G-148-233 DUAL DG-148-243
- 1" METER YL111 444
- 1 ½" 2" METER 1730-R (LID) & 1730-12 (BOX)/ACCEPTABLE BOXES FOR THIS SIZE OF METER 14. MANHOLE FRAMES AND COVERS AND WATER VALVE BOXES SHALL BE RAISED TO FINISHED PAVEMENT GRADE, WHEN IN PUBLIC STREETS, AT THE OWNER'S EXPENSE BY THE CONTRACTOR WITH CITY INSPECTION.
- ALL UTILITY ADJUSTMENTS SHALL BE COMPLETED PRIOR TO FINAL PAVING CONSTRUCTION. 15. THE LOCATION OF ANY EXISTING UTILITY LINES SHOWN ON THESE PLANS IS THE BEST AVAILABLE AND MAY NOT BE ACCURATE. ANY DAMAGE TO EXISTING UTILITY LINES, BOTH KNOWN AND UNKNOWN, SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
- 16. ALL IRON PIPE AND FITTINGS SHALL BE WRAPPED WITH AT LEAST 8 MIL. POLYETHYLENE WRAP. 17. ALL WATER MAINS. WASTEWATER MAINS AND SERVICE LINES SHALL MEET CITY OF AUSTIN SPECIFICATIONS FOR MINIMUM COVER REQUIREMENTS. ALL STREETS ARE TO BE CUT TO SUBGRADE PRIOR
- TO INSTALLATION OF WATER MAINS OR CUTS WILL BE ISSUED BY THE ENGINEER. 18. CITY TO BE GIVEN 48 HOURS NOTICE PRIOR TO ALL TESTING OF WATER AND WASTEWATER LINES. CITY INSPECTION IS REQUIRED FOR ALL TESTING OF WATER AND WASTEWATER LINES.
- 19. WHERE A WATER OR WASTEWATER LINE CROSSES ABOVE (OR BELOW) A STORM SEWER STRUCTURE AND THE BOTTOM (OR TOP) OF THE PIPE IS WITHIN 18 INCHES OF THE TOP (OR BOTTOM) OF THE UTILITY STRUCTURE. THE PIPE SHALL BE ENCASED WITH CONCRETE FOR A DISTANCE OF AT LEAST 1 FT. ON EITHER SIDE OF THE DITCH LINE OF THE UTILITY STRUCTURE OR THE STORM SEWER, CONCRETE ENCASEMENT WILL NOT BE REQUIRED FOR DUCTILE IRON (THICKNESS CLASS 50), AWWA C-900 (SDR- 18) 150 PSI RATED PVC IN SIZES TO 12 INCHES OR AWWA C-905 (SDR-25) 165 PSI RATED PVC IN SIZES LARGER THAN 12 INCHES. CONCRETE ENCASEMENT SHALL CONFORM TO C.O.A. STANDARD DETAIL 505-1.
- 20. CONTRACTOR TO NOTIFY THE CITY OF CEDAR PARK 48 HOURS PRIOR TO CONNECTING TO EXISTING
- 21. ALL PIPE BEDDING MATERIAL SHALL CONFORM TO CITY OF AUSTIN STANDARD SPECIFICATIONS. 22. TRACER TAPE SHALL BE INSTALLED ON ALL WATER AND WASTEWATER MAINS REGARDLESS OF THE TYPE OF PIPE OR DEPTH OF PIPE INSTALLED.
- 23. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER ALL CONCRETE IS TO BE CLASS "A" (5 SACK, 3000 PSI ~ 28-DAYS), AND ALL REINFORCING STEEL TO BE ASTM A615 60.
- 24. THE CITY CONSIDERS PROTECTION OF ITS WATER SYSTEM PARAMOUNT TO CONSTRUCTION ACTIVITIES. CITY PERSONNEL WILL OPERATE. OR AUTHORIZE THE CONTRACTOR TO OPERATE. ALL WATER VALVES THAT WILL PASS THROUGH THE CITY'S POTABLE WATER. THE CONTRACTOR MAY NOT OPERATE ANY WATER VALVE, EXISTING OR PROPOSED, THAT WILL ALLOW WATER FROM THE CITY'S WATER SYSTEM TO FLOW TO A PROPOSED OR EXISTING WATER SYSTEM WITHOUT THE EXPRESS CONSENT OF THE CITY, NOTIFY THE CITY TWO BUSINESS DAYS IN ADVANCE OF ANY REQUEST TO OPERATE A WATER VALVE. THE GENERAL CONTRACTOR MAY BE FINED \$500 OR MORE, INCLUDING ADDITIONAL THEFT OF WATER FINES, IF A WATER VALVE IS OPERATED IN AN UNAUTHORIZED MANNER, REGARDLESS OF WHO OPERATED THE VALVE.
- 25. ALL WATER VALVES OVER 24" IN SIZE SHALL HAVE A BY-PASS LINE AND VALVE INSTALLED. BY-PASS VALVES AND LINES ARE SUBSIDIARY TO THE COST OF THE VALVE UNLESS SPECIFICALLY IDENTIFIED ON THE BID
- 26. ALL WATER VALVES, INCLUDING THOSE OVER 12" IN SIZE, SHALL BE GATE VALVES. 27. A DOUBLE CHECK BACKFLOW DEVICE IN A VAULT SHALL BE INSTALLED AT THE PROPERTY LINE ON ALL PRIVATE FIRE LINES. A DETECTOR WATER METER WILL BE INSTALLED ON THIS BACKFLOW DEVICE, AND IT MUST BE A SENSUS SRII 3/4" METER WITH AMI RADIO READ CAPABILITY. THE CITY WILL PROVIDE THIS METER. PLEASE REFERENCE THE CITY OF CEDAR PARK DOUBLE CHECK BACKFLOW PREVENTION ASSEMBLY
- 28. ALL POTABLE WATER SYSTEM COMPONENTS INSTALLED AFTER JANUARY 4, 2014, SHALL BE "LEAD FREE" ACCORDING TO THE UNITED STATES SAFE DRINKING WATER ACT. THE ONLY COMPONENTS EXEMPT FROM THIS REQUIREMENT ARE FIRE HYDRANTS. COMPONENTS THAT ARE NOT CLEARLY IDENTIFIED BY THE MANUFACTURER AS MEETING THIS REQUIREMENT BY MARKING, OR ON THE PRODUCT PACKAGING, OR BY PRE-APPROVED SUBMITTAL, WILL BE REJECTED FOR USE. A NSF CERTIFICATION WILL BE ADEQUATE IF THI CERTIFICATION HAS NOT EXPIRED AS OF JANUARY 4, 2014 AND REMAINS UNEXPIRED AT THE TIME OF
- 29. ALL PRESSURE PIPE SHALL HAVE MECHANICAL RESTRAINT AND CONCRETE THRUST BLOCKING AT ALL VALVES, BENDS, TEES, PLUGS, AND OTHER FITTINGS.

STORM SEWER NOTES:

- 1. MANHOLE FRAMES AND COVERS AND WATER VALVE BOXES SHALL BE RAISED TO FINISHED PAVEMENT GRADE AT THE OWNER'S EXPENSE BY THE CONTRACTOR WITH CITY INSPECTION. ALL UTILITY ADJUSTMENTS SHALL BE COMPLETED PRIOR TO FINAL PAVING CONSTRUCTION. CONTRACTOR SHALL BACKFILL AROUND
- 2. ALL MANHOLE LIDS SHALL BE 32" OR LARGER, UNLESS EXPRESSLY APPROVED IN WRITING BY THE
- ENGINEERING DEPARTMENT 3. THE LOCATION OF ANY EXISTING UTILITY LINES SHOWN ON THESE PLANS IS THE BEST AVAILABLE AND MAY NOT BE ACCURATE. ANY DAMAGE TO EXISTING UTILITY LINES, BOTH KNOWN AND UNKNOWN, SHALL BE
- REPAIRED AT THE EXPENSE OF THE CONTRACTOR. 4. PIPE MATERIALS TO BE USED FOR CONSTRUCTION OF UTILITY LINES: UNLESS OTHERWISE SPECIFIED BY THE ENGINEER, ALL STORM SEWER RCP SHALL BE CLASS III. CORRUGATED METAL PIPE IS NOT PERMITTED.
- 5. ALL MANHOLE AND INLET COVERS SHALL READ "CITY OF CEDAR PARK". 6. CONTRACTOR TO NOTIFY THE CITY OF CEDAR PARK 48 HOURS PRIOR TO CONNECTING TO EXISTING
- 8. UNLESS OTHERWISE SPECIFIED BY THE ENGINEER ALL CONCRETE IS TO BE CLASS "A" (5 SACK. 3000 PSI ~ 28-DAYS), AND ALL REINFORCING STEEL TO BE ASTM A615 60. 9. CONTRACTOR TO INSTALL AND MAINTAIN GEO-TEXTILE FABRIC BARRIER (INLET PROTECTION) AROUND
- STORM SEWER LEADS AND INLETS TO PREVENT SILT AND OTHER MATERIAL FROM ENTERING THE STORM SEWER COLLECTION SYSTEM.

10. INSTALL CONCRETE SAFETY END TREATMENTS TO ALL CULVERTS AND ENDS OF DRAINAGE PIPE. 11. ALL CURB INLETS SHALL HAVE AN ALMETEK 4" DISC "NO DUMPING DRAINS TO WATERWAY" MARKER.

SEQUENCE OF CONSTRUCTION NOTES:

THE FOLLOWING SEQUENCE OF CONSTRUCTION SHALL BE USED FOR ALL DEVELOPMENT. THE APPLICANT IS ENCOURAGED TO PROVIDE ANY ADDITIONAL DETAILS APPROPRIATE FOR THE PARTICULAR DEVELOPMENT

- 1. TEMPORARY EROSION AND SEDIMENTATION CONTROLS ARE TO BE INSTALLED AS INDICATED ON THE APPROVED SITE PLAN OR SUBDIVISION CONSTRUCTION PLAN AND IN ACCORDANCE WITH THE EROSION SEDIMENTATION CONTROL PLAN (ESC) AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP) THAT IS REQUIRED TO BE POSTED ON THE SITE. INSTALL TREE PROTECTION AND INITIATE TREE MITIGATION MFASURFS.
- 2. THE GENERAL CONTRACTOR MUST CONTACT THE CITY INSPECTOR AT 512-401-5000, 72 HOURS PRIOR TO
- THE SCHEDULED DATE OF THE REQUIRED ON-SITE PRECONSTRUCTION MEETING. 3. THE GENERAL CONTRACTOR WILL FOLLOW THE EROSION SEDIMENTATION CONTROL PLAN (ESC) AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP) POSTED ON THE SITE, TEMPORARY EROSION AND SEDIMENTATION CONTROLS WILL BE REVISED. IF NEEDED, TO COMPLY WITH CITY INSPECTORS' DIRECTIVES. AND REVISED CONSTRUCTION SCHEDULE RELATIVE TO THE WATER QUALITY PLAN REQUIREMENTS AND THE FROSION PLAN.
- 4. ROUGH GRADE THE POND(S) AT 100% PROPOSED CAPACITY. EITHER THE PERMANENT OUTLET STRUCTURE OR A TEMPORARY OUTLET MUST BE CONSTRUCTED PRIOR TO DEVELOPMENT OF EMBANKMENT OR EXCAVATION THAT LEADS TO PONDING CONDITIONS. THE OUTLET SYSTEM MUST CONSIST OF A SUMP PIT OUTLET AND AN EMERGENCY SPILLWAY MEETING THE REQUIREMENTS OF THE CITY OF AUSTIN DRAINAGE CRITERIA MANUAL, AS REQUIRED. THE OUTLET SYSTEM SHALL BE PROTECTED FROM EROSION AND SHALL BE MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION UNTIL INSTALLATION OF THE PERMANENT
- WATER QUALITY POND(S). 5. TEMPORARY EROSION AND SEDIMENTATION CONTROLS WILL BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE EROSION SEDIMENTATION CONTROL PLAN (ESC) AND STORM WATER POLLUTION
- PREVENTION PLAN (SWPPP) POSTED ON THE SITE.
- 6. BEGIN SITE CLEARING/CONSTRUCTION (OR DEMOLITION) ACTIVITIES. 7. UNDERGROUND UTILITIES WILL BE INSTALLED. INCLUDING FIRE HYDRANTS.
- 8. FIRE DEPARTMENT ACCESS WILL BE INSTALLED WHERE REQUIRED BY APPROVED SITE PLAN. 9. VERTICAL CONSTRUCTION MAY OCCUR AFTER THE PRE-VERTICAL INSPECTION HAS BEEN CLEARED BY THE FIRE MARSHAL.
- INSTALLED PRIOR TO/CONCURRENTLY WITH REVEGETATION OF SITE. 11. COMPLETE CONSTRUCTION AND START REVEGETATION OF THE SITE AND INSTALLATION OF LANDSCAPING.
- 12. UPON COMPLETION OF THE SITE CONSTRUCTION AND REVEGETATION OF A PROJECT SITE. THE DESIGN ENGINEER SHALL SUBMIT AN ENGINEER'S LETTER OF CONCURRENCE BEARING THE ENGINEER'S SEAL. SIGNATURE, AND DATE TO THE CITY INDICATING THAT CONSTRUCTION, INCLUDING REVEGETATION, IS COMPLETE AND IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLANS. AFTER RECEIVING THIS LETTER, A FINAL INSPECTION WILL BE SCHEDULED BY THE CITY INSPECTOR.

10. PERMANENT WATER QUALITY PONDS OR CONTROLS WILL BE CLEANED OUT AND FILTER MEDIA WILL BE

- 13. UPON COMPLETION OF LANDSCAPE INSTALLATION OF A PROJECT SITE, THE LANDSCAPE ARCHITECT SHALL SUBMIT A LETTER OF CONCURRENCE TO THE CITY INDICATING THAT THE REQUIRED LANDSCAPING IS COMPLETE AND IN SUBSTANTIAL CONFORMITY WITH THE APPROVED PLANS. AFTER RECEIVING THIS
- LETTER, A FINAL INSPECTION WILL BE SCHEDULED BY THE CITY INSPECTOR. 14. AFTER A FINAL INSPECTION HAS BEEN CONDUCTED BY THE CITY INSPECTOR AND WITH APPROVAL FROM THE CITY INSPECTOR, REMOVE THE TEMPORARY EROSION AND SEDIMENTATION CONTROLS AND COMPLETE ANY NECESSARY FINAL REVEGETATION RESULTING FROM REMOVAL OF THE CONTROLS.

CONDUCT ANY MAINTENANCE AND REHABILITATION OF THE WATER QUALITY PONDS OR CONTROLS.

NORTH ARROW/SCALE BAR NOTE:

STAR ON NORTH ARROW IS EXACTLY 1 INCH WIDE IN ALL

DIRECTIONS FROM STAR-POINT TO STAR-POINT.



CIVIL ENGINEERING AND PLANNING (972) 822 - 1682 TBPE FIRM REGISTRATION NO. F-2266

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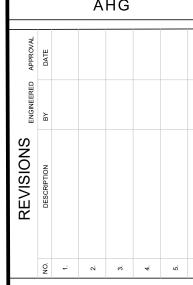
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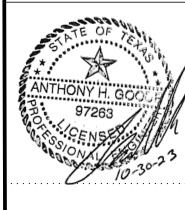
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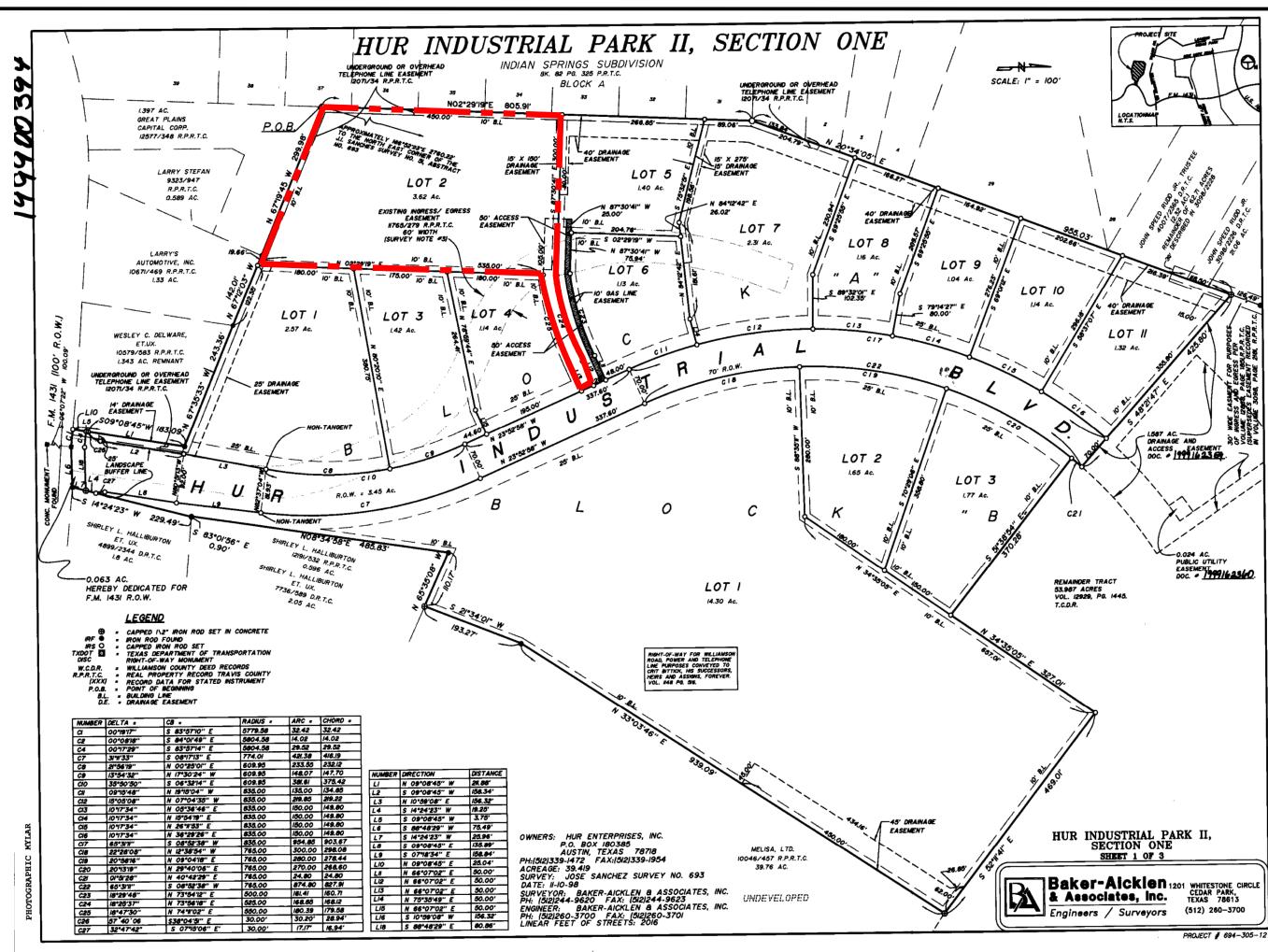
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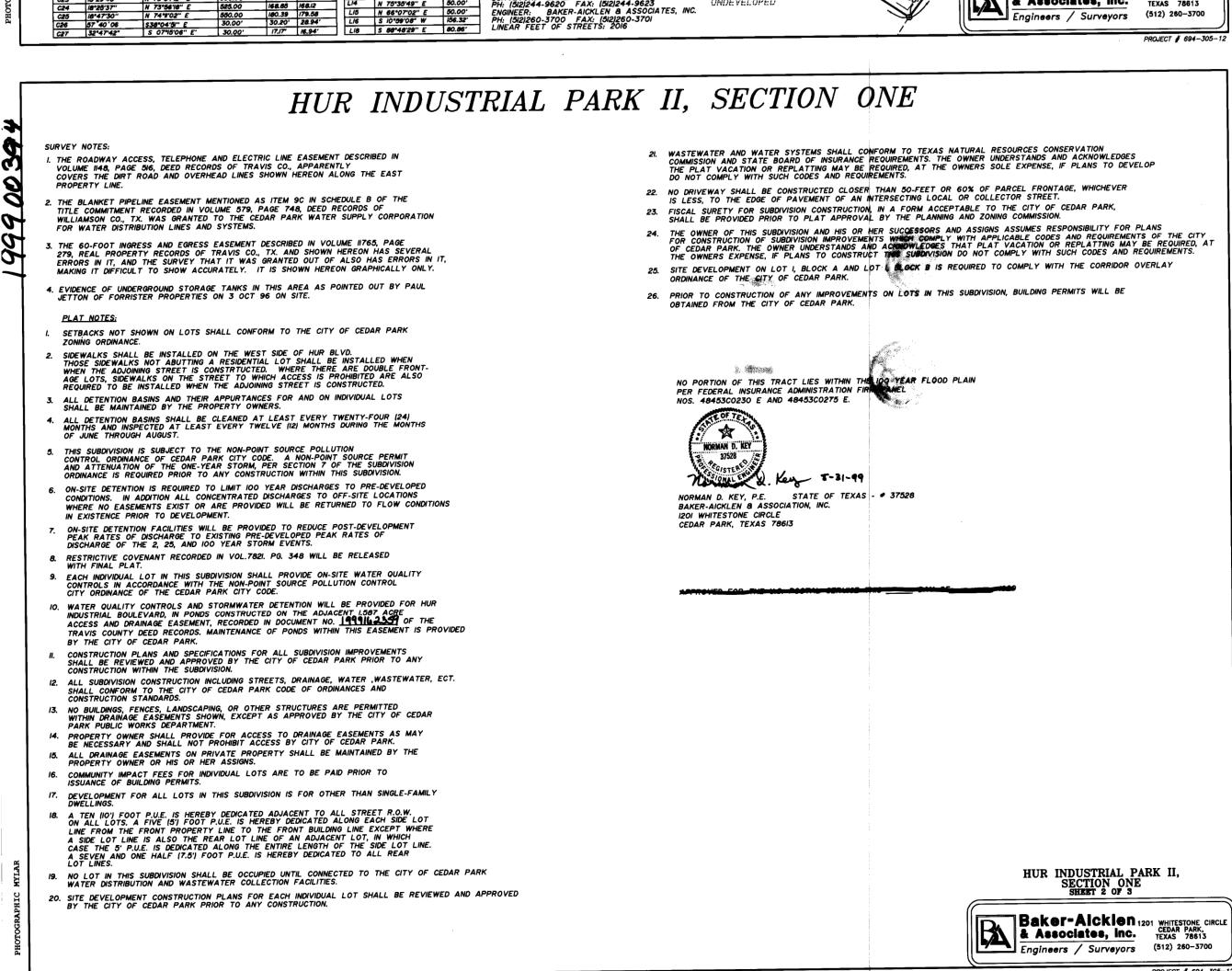
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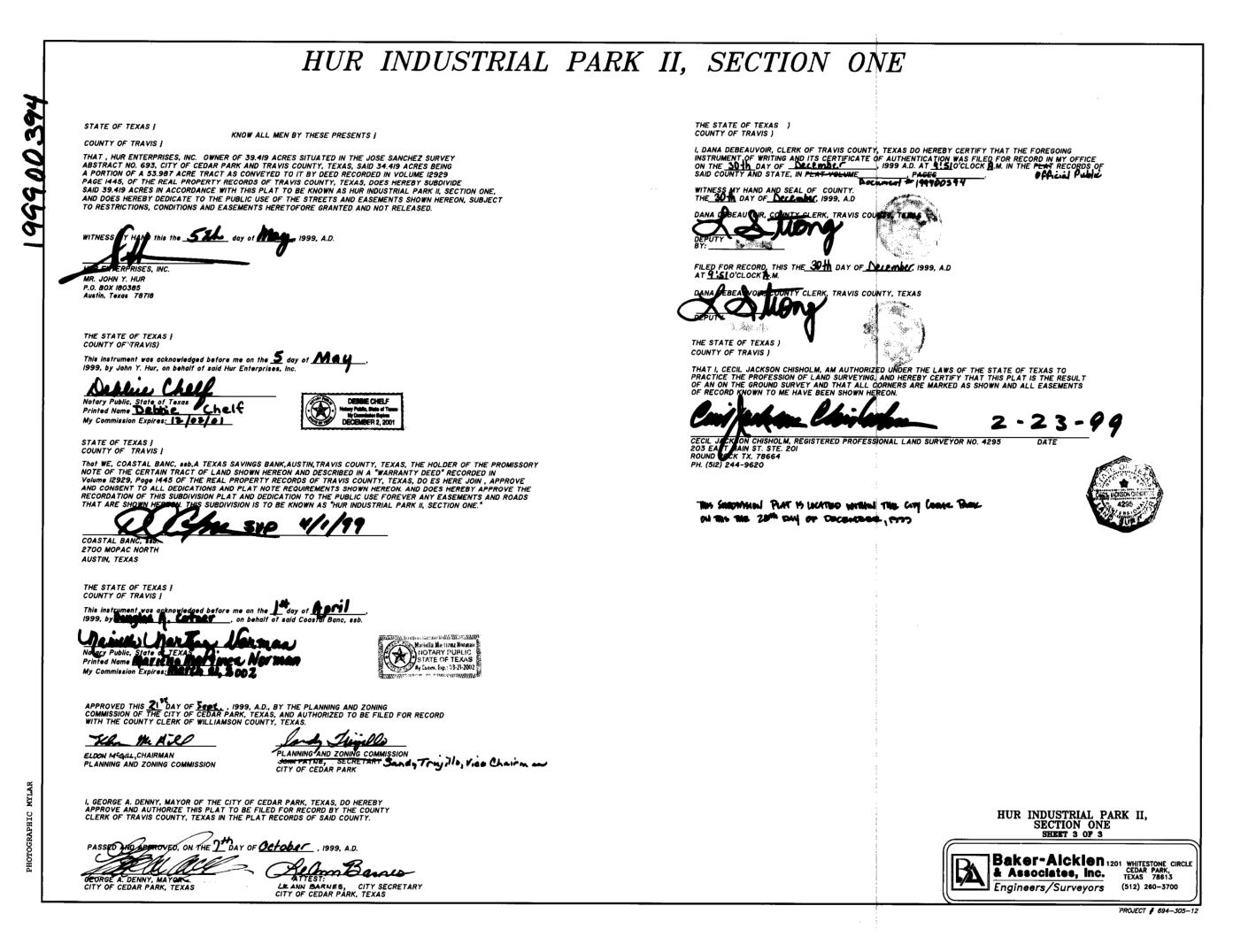
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ADDITIONAL PARKING SITE DEVELO

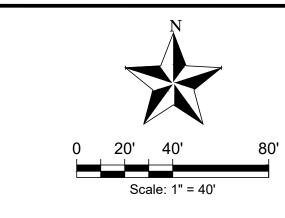
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REVISIONS ENGINEERED APPROVAL

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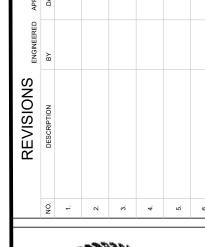


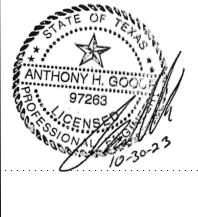
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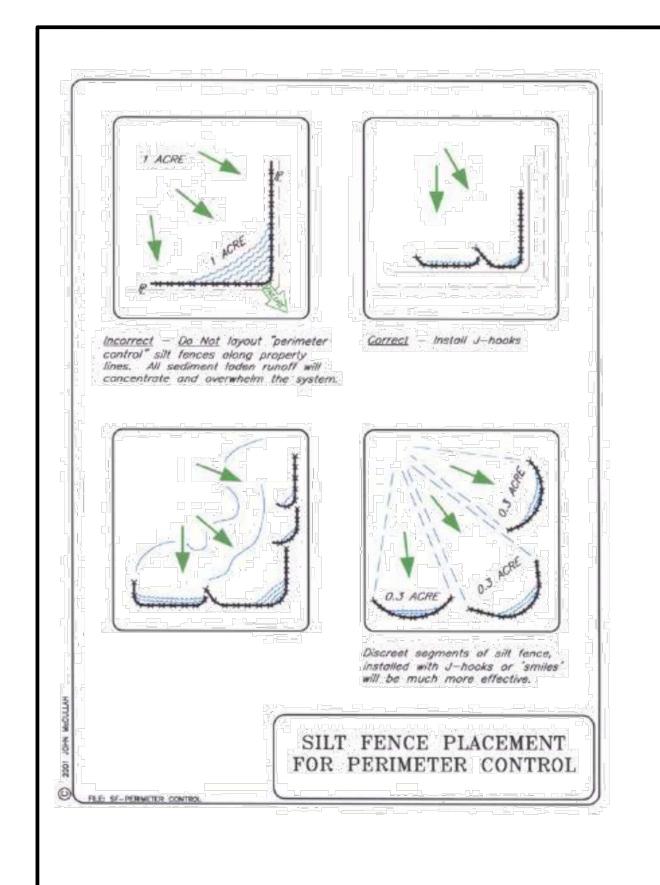
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DESIGNED BY

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826 LF OF LOC

256 LF OF SILT FENCE

106 LF OF TREE PROTECTION

REVEGETATED AREA

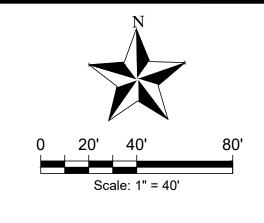
21 LF OF SILT FENCE

INLET PROTECTION

123 LF OF TREE PROTECTION

CONCRETE WASHOUT

REVEGETATED AREA





CIVIL ENGINEERING AND PLANNING (972) 822 - 1682 TBPE FIRM REGISTRATION NO. F-22664

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LEGEND LIMITS OF CONSTRUCTION

NOTES:

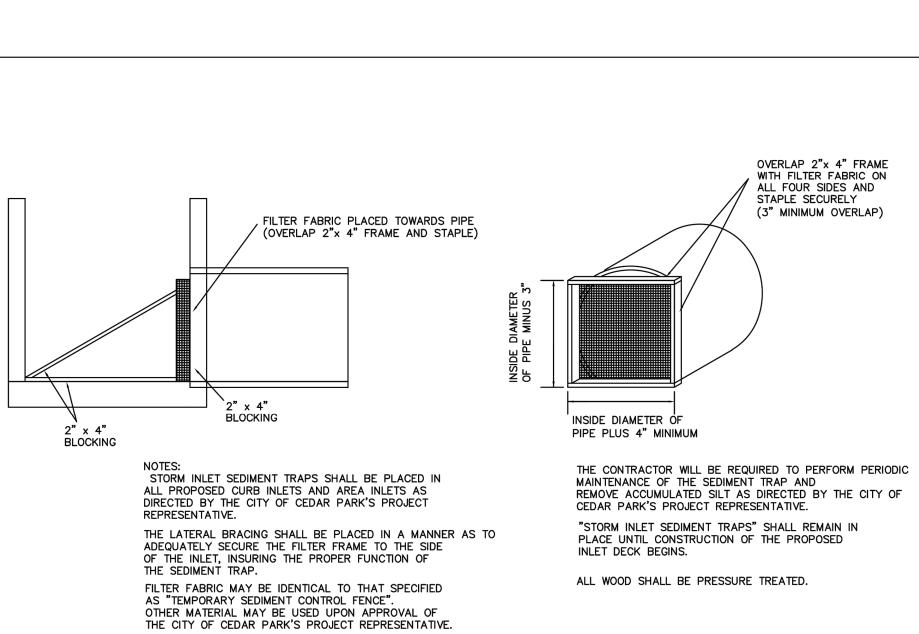
1) ALL DISTURBED AREAS SHALL BE RE-VEGETATED TO MEET THE REQUIREMENTS OF THE CITY OF CEDAR PARK'S ORDINANCES.

2) ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY INSPECOR AT TIME OF CONSTRUCTION.

PROPERTY LINE T T T T T T TREE PROTECTION

OVERLAP 2"x 4" FRAME WITH FILTER FABRIC ON ALL FOUR SIDES AND STAPLE SECURELY (3" MINIMUM OVERLAP) 'INSIDE DIAMETER ÖF PIPE PLUS 4" MINIMUM

STORM INLET SEDIMENT TRAP



THE "STORM INLET SEDIMENT TRAPS" SHALL BE

PROJECT REPRESENTATIVE.

CITY OF CEDAR PARK PUBLIC WORKS ENGINEERING DARWIN MARCHELL, P.E.

INSTALLED UPON COMPLETION OF THE PROPOSED INLET
WALLS OR AS DIRECTED BY THE CITY OF CEDAR PARK'S

STANDARD DETAIL
STORM INLET SEDIMENT TRAP
ADOPTED: 01/02/01
SCALE: NTS
INITIAL:

POTENTIAL POLLUTANTS

POTENTIAL SOURCES OF STORM WATER POLLUTION FROM THE CONSTRUCTION OF THE PROJECT ARE:

1. DISTURBED SOILS FROM THE CONSTRUCTION SITE

INCREASED SEDIMENT LOADING IN STORM WATER CAN BE ATTRIBUTED TO: A)DIRECT RAINFALL ONTO DISTURBED SOIL AREAS, STOCKPILES, SAND, GRAVEL, AND ROCK AREA WHERE RAIN DISLODGES SOIL PARTICLES; B) EROSION OF DISTURBED SOIL AREAS; C) THE TRANSFER OF SOILS BY EQUIPMENT OR VEHICLE TIRES ONTO DISTURBED AND NON-DISTURBED AREAS WHERE THEY ARE WASHED INTO DRAINAGE DITCHES OR OTHER SIMILAR WATER CONVEYANCE

2. OIL, GREASE, HYDRAULIC FLUIDS. AND FUELS FROM THE OPERATION OF EQUIPMENT ON THE SITE.

THERE IS A POTENTIAL FOR STORM WATER CONTAMINATION IN THE FORM OF OIL, GREASE, HYDRAULIC FLUID, AND FUEL FROM EQUIPMENT AND VEHICLES ON THE SITE. THESE SUBSTANCES ARE TYPICALLY RELEASED TO THE ENVIRONMENT BECAUSE OF EQUIPMENT FAILURE AND DURING MAINTENANCE OPERATIONS.

SITE LOCATION MAP

SEE CONSTRUCTION DRAWING PLAN SET PROJECT LOCATION MAP

DETAILED SITE MAP

SEE CONSTRUCTION DRAWING PLAN SET SITE MAP

RECEIVING WATERS FOR IDENTIFICATION OF RECEIVING WATERS ON OR ADJACENT TO THE SITE REFERENCE DETAILED CONSTRUCTION DRAWING PLAN SET "EXISTING CONDITIONS PLAN".

STATE AND LOCAL PLANS

THE SWPPP IS CONSISTENT WITH REQUIREMENTS SPECIFIED IN APPLICABLE STORM WATER, WATER QUALITY, SEDIMENT, AND EROSION SITE PLANS, PERMITS OR SIMILAR ORDINANCES OF LOCAL, STATE, OR FEDERAL OFFICIALS.

THIS PROJECT IS LOCATED IN THE EDWARDS AQUIFER CONRTIBUTING ZONE.

SEQUENCE OF MAJOR ACTIVITIES

- INSTALLATION OF TEMPORARY EROSION CONTROLS.
- 2. SITE DEMOLITION AND GRADING.
- CONSTRUCTION OF FACILITIES.
- 4. SITE RESTORATION.
- 5. ASPHALT REPAIR, SEEDING, RE-VEGATATION, AND SOIL SURFACE PROTECTION.
- 6. REMOVAL OF TEMPORARY EROSION AND SEDIMENTATION CONTROLS.

TEMPORARY AND PERMANENT EROSION CONTROLS

TEMPORARY EROSION AND SEDIMENT CONTROLS WILL CONSIST OF SILT FENCE AND ROCK BERMS ON THE DOWN-GRADIENT PERIMETER OF THE SITE, PRESERVATION OF NATURAL VEGETATION WHERE AVAILABLE AND RECURRING CLEAN UP OF MUD/SOIL TRACKED ONTO ROADWAY.

PERMANENT CONTROLS MAY CONSIST OF ROCK BERMS, SWALES, AND RE-VEGATATION. PERMANENT WARM SEASON VEGETATION WILL SERVE AS FINAL STABILIZATION AND WILL REDUCE SURFACE EROSION ON AREAS NOT COVERED BY ASPHALT, CONCRETE.

FOR SPECIFIC LOCATION AND SELECTION OF TEMPORARY AND PERMANENT CONTROLS REFER TO EROSION AND SEDIMENTATION CONTROL PLAN WITHIN CONSTRUCTION DRAWING PLAN SET.

TEMPORARY STABILIZATION

STABILIZATION MEASURES WILL BE INITIATED IN PORTIONS OF THE PROJECT SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARLY OR PERMANENTLY CEASED FOR 14 DAYS, BUT IN NO CIRCUMSTANCES MORE THAN 21 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE PROJECT SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

FINAL STABILIZATION OF SITE WILL CONSIST OF ESTABLISHMENT OF PERMANENT WARM SEASON VEGETATION ON PORTIONS OF THE SITE NOT COVERED BY CONCRETE, OR ASPHALT. ESTABLISHMENT OF PERMANENT VEGETATION SUITABLE FOR TPDES GENERAL PERMIT COMPLIANCE MUST MEASURE 70% AERIAL COVERAGE (COMPARED TO BACKGROUND NATIVE VEGETATION AERIAL COVERAGE PERCENTAGE) WITH NO LARGE BARE AREAS. CONTRACTORS MUST MEET VEGETATIVE REQUIREMENT IDENTIFIED BY THE ENGINEER WITHIN THE CONTRACT SPECIFICATIOIN, OR THE HIGHEST REQUIREMENT

SPOIL/FILL MANAGEMENT

ALL SOIL STOCKPILE, EXCAVATION SPOIL MATERIAL, AND ON-SITE SPOIL DISPOSAL AREAS SHALL BE MANAGED BY THE CONTRACTOR IN A MANNER THAT WILL MINIMIZE OR ATTEMPT TO ELIMINATE THE AMOUNT OF SEDIMENT THAT MAY MAY ENTER RECEIVING WATERS AND SHALL NOT BE LOCATED IN ANY WETLAND, FLOODPLAIN, STREAMBED, DITCH, OR OTHER SIMILAR WATER FEATURE OR CONVEYANCE.

OFF-SITE VEHICLE TRACKING OF SOIL BY VEHICLES AND EQUIPMENT SHALL BE MINIMIZED AND CONTROLLED BY THE CONTRACTOR. SOIL SHALL BE REMOVED FROM SITE ROADWAYS, ENTRANCE, AND ACCESS ROADS AS NECESSARY TO PREVENT SEDIMENT FROM

DUST CONTROL

DUST WILL BE CONTROLLED BY PERIODIC WETTING WITH WATER TRUCKS DURING DRY PERIODS.

DEWATERING AND NON-STORMWATER DISCHARGES

ANY NON-STORMWATER DISCHARGES FROM THE CONSTRUCTION SITE WILL BE CONTROLLED AND MANAGED BY THE CONTRACTOR IN COMPLIANCE WITH ALL TCEQ AND LOCAL WATER QUALITY DISCHARGE REQUIREMNETS, INCLUDING BUT NOT LIMITED TO 30 TAC 307, SURFACE WATER QUALITY STANDARDS FOR THE STATE OF TEXAS.

THE FOLLOWING NON-STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES ARE ACCEPTABLE:

1. DISCHARGES FROM FIRE FIGHTING ACTIVITIES

- 2. FIRE HYDRANT FLUSHINGS.
- 3. VEHICLE, EXTERNAL BUILDING, AND PAVEMENT WASH WATER WHERE DETERGENTS AND SOAPS ARE NOT USED AND WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED (UNLESS SPILLED MATERIALS HAVE BEEN REMOVED; AND IF LOCAL STATE, OR FEDERAL REGULATIONS ARE APPLICABLE, THE MATERIALS ARE REMOVED ACCORDING TO THOSE REGULATIONS), AND WHERE THE PURPOSE IS TO REMOVE MUD, DIRT, AND DUST.
- 4. WATER USED TO CONTROL DUST.
- POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHINGS.
- AIR CONDITIONING CONDENSATE.
- 7. UNCONTAMINATED GROUND WATER OR SPRING WATER, INCLUDING FOUNDATION OR FOOTING DRAINS WHERE FLOWS 1. ARE NOT CONTAMINATED WITH INDUSTRIAL MATERIALS SUCH AS SOLVENTS OR OTHER POLLUTANTS.

NON-STORM WATER DISCHARGES WILL, AT A MINIMUM, FLOW THROUGH A SILT FENCE, OR OTHER SUITABLE STRUCTURAL CONTROLS, AND NATURAL VEGETATION (IF AVAILABLE) PRIOR TO LEAVING THE SITE, AS NECESSARY TO MEET COMPLIANCE REQUIREMENTS WITH ALL STATE AND LOCAL WATER QUALITY DISCHARGE REQUIREMENTS, INCLUDING BUT NOT LIMITED TO 30 TAC 307 OR 26 TWC 121, SURFACE WATER QUALITY STANDARDS AND WATER QUALITY CONTROL FRO THE STATE OF TEXAS RESPECTIVELY.

INSPECTION AND MAINTENANCE PROCEDURES

THE FOLLOWING PROCEDURES WILL BE USED TO INSPECT AND MAINTAIN EROSION AND SEDIMENT CONTROLS ON THE CONSTRUCTION SITE.

INSPECTION

ALL CONTROLS WILL BE INSPECTED BY THE CONTRACTOR AT LEASAT ONCE PER WEEK ON A SPECIFIC DAY OF THE WEEK SELECTED BY THE CONTRACTOR AT BEGINNING OF PROJECT. (I.E. EACH MONDAY).

AN INSPECTION AND MAINTENANCE REPORT (SEE COPY OF 1 IN SWPPP) WILL BE PERFORMED AND DOCUMENTED DURING EACH WEEKLY INSPECTION. EACH INSPECTION REPORT WILL NOTE ANY EROSION AND SEDIMENTATION CONTROL ITEMS IN NEED OF REPAIR SUCH ASS: DETACHED SILT FENCE/ROCK BERMS, AND SEDIMENT BUILD UP DEPTH CAPTURED BY CONTROLS, ETCETERA.

WHERE A REPORT DOES NOT IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE NOR ANY ITEMS REQUIRING MAINTENANCE, THE REPORT MUST CONTAIN A CERTIFICATION BY THE CONTRACTORS' CERTIFYING EXECUTIVE OFFICER THAT THIS FACILITY OR SITE IS IN COMPLIANCE WITH THE SWPPP AND THE TPDES GENERAL PERMIT (SEE RECORDS SECTION ABOVE). IF THE INSPECTION REPORTS IDENTIFY ITEMS OF NON-COMPLIANCE OR ITEMS THAT REQUIRE MAINTENANCE THEN NO NONE IS REQUIRED TO SIGN OR CERTIFY THE INSPECTION REPORTS.

DIVERSION DIKES, BERMS, OR SWALES WILL BE INSPECTED AND ANY BREACHES OR AREAS WHERE SEDIMENT HAS ESCAPED THE SITE WILL BE NOTED AS WELL.

REPORTS WILL BE ADDRESS CONTROLS THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION AND LOCATIONS WHERE ADDITIONAL MEASURES ARE REQUIRED.

WHEN A CONTROL FAILS TO OPERATE AS DESIGNED, PROVES INADEQUATE FOR A PARTICULAR LOCATION, WHERE ADDITIONAL MEASURES ARE REQUIRED, OR A CONTROL BECOMES DAMAGED TO ESSENTIALLY CAUSE MAJOR REPAIR OR REINSTALLATION, THE CONTRACTOR WILL NOTIFY THE ENGINEER AND THE OWNER IMMEDIATELY.

SEDIMENT BASINS WILL BE INSPECTED FOR DEPTH OF SEDIMENT.

QUALIFICATIONS OF THE INSPECTOR THE CONTRACTOR WILL SELECT, AND TRAIN AS NECESSARY, DESIGNATED PERSONNEL RESPONSIBLE FOR THE INSPECTION, REPAIR, SEDIMENT REMOVAL, AND ANY OTHER RELATED MAINTENANCE REQUIRED FOR KEEPING EROSION AND SEDIMENT CONTROLS IN GOOD WORKING ORDER. THE INSPECTION PERSONNEL MUST BE FAMILIAR WITH SWPPP. THE CONTRACTOR SHALL COMPLY WITH THE INSPECTION REQUIREMENTS SPECIFIED IN THE TPDES PERMIT IN SECTION

EROSION CONTROL NOTES

- 1. THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR EXCAVATION).
- 2. THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE ENVIRONMENTAL CRITERIA MANUAL AND THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN. THE CITY OF CEDAR PARK ESC PLAN SHALL BE CONSULTED AND USED AS THE BASIS FOR A TPDES REQUIRED SWPPP. IF A SWPPP IS REQUIRED, IT SHALL BE AVAILABLE FOR REVIEW BY THE CITY OF CEDAR PARK ENVIRONMENTAL INSPECTOR AT ALL TIMES DURING CONSTRUCTION, INCLUDING AT THE PRE-CONSTRUCTION MEETING. THE CHECKLIST BELOW CONTAINS THE BASIC ELEMENTS THAT SHALL BE REVIEWED FOR PERMIT APPROVAL BY CITY OF CEDAR PARK ENVIRONMENTAL PLAN REVIEWERS AS WELL AS CITY OF CEDAR PARK ENVIRONMENTAL INSPECTORS.
- 3. THE PLACEMENT OF TREE/NATURAL AREA PROTECTIVE FENCING SHALL BE IN ACCORDANCE WITH THE STANDARD NOTES FOR TREE AND NATURAL AREA PROTECTION AND THE APPROVED GRADING/TREE AND NATURAL AREA PLAN.
- 4. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD ON-SITE WITH THE CONTRACTOR, DESIGN ENGINEER/PERMIT APPLICANT AND CITY INSPECTOR AFTER INSTALLATION OF THE EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTION MEASURES AND PRIOR TO BEGINNING ANY SITE PREPARATION WORK.
- 5. ANY MAJOR VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED PLANS WILL REQUIRE A REVISION AND MUST BE APPROVED BY THE REVIEWING ENGINEER, ENVIRONMENTAL SPECIALIST OR CITY INSPECTOR AS APPROPRIATE. MINOR CHANGES TO BE MADE AS FIELD REVISIONS TO THE EROSION AND SEDIMENTATION CONTROL PLAN MAY BE REQUIRED BY THE CITY OR ENGINEER INSPECTOR DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES.
- 6. THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AND FENCES AT WEEKLY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES.
- 7. PRIOR TO FINAL ACCEPTANCE BY THE CITY, HAUL ROADS AND WATERWAY CROSSINGS CONSTRUCTED FOR TEMPORARY CONTRACTOR ACCESS MUST BE REMOVED, ACCUMULATED SEDIMENT REMOVED FROM THE WATERWAY AND THE AREA RESTORED TO THE ORIGINAL GRADE AND REVEGETATED. ALL LAND CLEARING DEBRIS SHALL BE DISPOSED OF IN APPROVED SPOIL DISPOSAL SITES.
- 8. ALL WORK MUST STOP IF A VOID IN THE ROCK SUBSTRATE IS DISCOVERED WHICH IS; ONE SQUARE FOOT IN TOTAL AREA; BLOWS AIR FROM WITHIN THE SUBSTRATE AND/OR CONSISTENTLY RECEIVES WATER DURING ANY RAIN EVENT. AT THIS TIME IT IS THE RESPONSIBILITY OF THE PROJECT MANAGER TO IMMEDIATELY CONTACT A CITY OF LEANDER INSPECTOR FOR FURTHER INVESTIGATION.
- 9. TEMPORARY AND PERMANENT EROSION CONTROL: ALL DISTURBED AREAS SHALL BE RESTORED AS NOTED BELOW. A. ALL DISTURBED AREAS TO BE REVEGETATED ARE REQUIRED TO PLACE A MINIMUM OF SIX (6) INCHES OF TOPSOIL [SEE STANDARD SPECIFICATION ITEM NO. 601S.3(A)]. DO NOT ADD TOPSOIL WITHIN THE CRITICAL ROOT ZONE OF EXISTING TREES. THE TOPSOIL SHALL BE COMPOSED OF 4 PARTS OF SOIL MIXED WITH 1 PART COMPOST, BY VOLUME. THE COMPOST SHALL MEET THE DEFINITION OF COMPOST AS DEFINED BY TXDOT SPECIFICATION ITEM 161. THE SOIL SHALL BE LOCALLY AVAILABLE NATIVE SOIL THAT MEETS THE FOLLOWING SPECIFICATIONS:
- SHALL BE FREE OF TRASH, WEEDS, DELETERIOUS MATERIALS, ROCKS, AND DEBRIS.
- 100% SHALL PASS THROUGH A 1.5-INCH (38-MM) SCREEN.
- SOIL TO BE A LOAMY MATERIAL THAT MEETS THE REQUIREMENTS OF THE TABLE BELOW IN ACCORDANCE WITH THE USDA TEXTURAL TRIANGLE. SOIL KNOWN LOCALLY AS "RED DEATH" IS NOT AN ALLOWABLE SOIL. TEXTURAL COMPOSITION SHALL MEET THE FOLLOWING CRITERIA:

TEXTURAL CLASS	MINIMUM	MAXIMUM
CLAY	5%	50%
SILT	10%	50%
SAND	15%	67%

- AN OWNER/ENGINEER MAY PROPOSE USE OF ONSITE SALVAGED TOPSOIL WHICH DOES NOT MEET THE SOIL TEXTURE CLASS REQUIRED ABOVE BY PROVIDING A SOIL ANALYSIS AND A WRITTEN STATEMENT FROM A QUALIFIED PROFESSIONAL IN SOILS, LANDSCAPE ARCHITECTURE, OR AGRONOMY INDICATING THE ONSITE TOPSOIL WILL PROVIDE AN EQUIVALENT GROWTH MEDIA AND SPECIFYING WHAT, IF ANY, SOIL AMENDMENTS ARE REQUIRED.
- SOIL AMENDMENTS SHALL BE WORKED INTO THE EXISTING ONSITE TOPSOIL WITH A DISC OR TILLER TO CREATE A WELL-BLENDED MATERIAL.
- TOPSOIL SALVAGED FROM THE EXISTING SITE MAY OFTEN BE USED, BUT IT SHOULD MEET THE SAME STANDARDS AS SET FORTH IN THESE STANDARDS.
- THE VEGETATIVE STABILIZATION OF AREAS DISTURBED BY CONSTRUCTION SHALL BE AS FOLLOWS:

TEMPORARY VEGETATIVE STABILIZATION:

- FROM SEPTEMBER 15 TO MARCH 1, SEEDING SHALL BE WITH COOL SEASON COVER CROPS (WHEAT AT 0.5 POUNDS PER 1000 SF, OATS AT 0.5 POUNDS PER 1000 SF, CEREAL RYE GRAIN AT 0.5 POUNDS PER 1000 SF) WITH A TOTAL RATE OF 1.5 POUNDS PER 1000 SF. COOL SEASON COVER CROPS ARE NOT PERMANENT EROSION CONTROL.
- FROM MARCH 2 TO SEPTEMBER 14, SEEDING SHALL BE WITH BUFFALO AT A RATE OF 1 POUNDS PER 1000 SF. A. FERTILIZER SHALL BE WATER SOLUBLE WITH AN ANALYSIS OF 15-15-15 TO BE APPLIED ONCE AT PLANTING AND ONCE DURING THE PERIOD OF ESTABLISHMENT AT A RATE OF 1/2 POUND PER 1000 SF.
- B. HYDROMULCH SHALL COMPLY WITH TABLE1, BELOW. C. TEMPORARY EROSION CONTROL SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1.5 INCHES HIGH WITH 95% COVERAGE, PROVIDED NO BARE SPOTS LARGER THAN 16 SQUARE FEET EXIST.
- D. WHEN REQUIRED, NATIVE GRASS SEEDING SHALL COMPLY WITH REQUIREMENTS OF THE CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL.

TABLE 1: HYDROMULCHING FOR TEMPORARY VEGETATIVE STABILIZATION

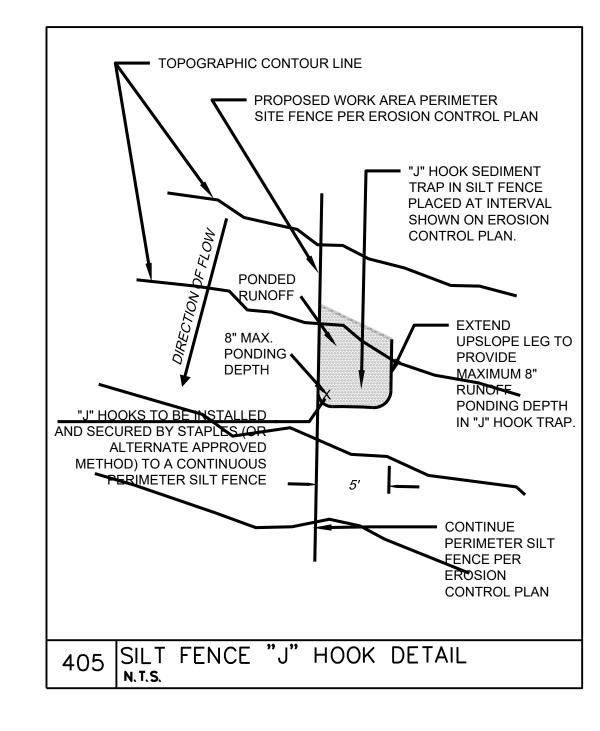
MATERIAL	DESCRIPTION	LONGEVITY	TYPICAL APPLICATIONS	LONGEVITY
(EXOL: 1 110 MOLO: 1	GREATER	0-3 MONTH	MODERATE SLOPES; FROM FLAT TO 3:1	MODERATE SLOPES; FROM FLAT TO 3:1

PERMANENT VEGETATIVE STABILIZATION:

- FROM SEPTEMBER 15 TO MARCH 1. SEEDING IS CONSIDERED TO BE TEMPORARY STABILIZATION ONLY, IF COOL SEASON COVER CROPS EXIST WHERE PERMANENT VEGETATIVE STABILIZATION IS DESIRED, THE GRASSES SHALL BE MOWED TO A HEIGHT OF LESS THAN ONE-HALF (½) INCH AND THE AREA SHALL BE RE-SEEDED IN ACCORDANCE WITH 2. BELOW.
- FROM MARCH 2 TO SEPTEMBER 14. SEEDING SHALL BE WITH BUFFALO AT A RATE OF 1 POUND PER 1000 SF WITH A PURITY OF 95% WITH 85% GERMINATION. BUFFALO GRASS IS A WARM SEASON GRASS AND IS CONSIDERED PERMANENT EROSION CONTROL.
- A. FERTILIZER SHALL BE A WATER SOLUBLE WITH AN ANALYSIS OF 15-15-15 TO BE APPLIED ONCE AT PLANTING AND ONCE DURING THE PERIOD OF ESTABLISHMENT AT A RATE OF 1/2 POUND PER 1000 SF. B. HYDROMULCH SHALL COMPLY WITH TABLE 2, BELOW.
- C. THE PLANTED AREA SHALL BE IRRIGATED OR SPRINKLED IN A MANNER THAT WILL NOT ERODE THE TOPSOIL, BUT WILL SUFFICIENTLY SOAK THE SOIL TO A DEPTH OF SIX INCHES. THE IRRIGATION SHALL OCCUR AT DAILY INTERVALS (MINIMUM) DURING THE FIRST TWO MONTHS. RAINFALL OCCURRENCES OF $rac{1}{2}$ INCH OR MORE SHALL POSTPONE THE WATERING SCHEDULE FOR ONE WEEK
- D. PERMANENT EROSION CONTROL SHALL BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1.5 INCHES HIGH WITH 95% COVERAGE, PROVIDED NO BARE SPOTS LARGER THAN 16 SQUARE FEET EXIST.

	DESCRIPTION	LONGEVITY	TYPICAL APPLICATIONS	APPLICATION RATES
BONDED FIBER MATRIX (BFM)	80% ORGANIC DEFIBRATED FIBERS 10% TACKIFER	6 MONTHS	ON SLOPES UP TO 2:1 AND EROSIVE SOIL CONDITIONS	2500 TO 4500 LBS PER ACRE (SEE MANUFACTURERS RECOMENDATIONS)
FIBER REINFORCED MATRIX (FRM)	65% ORGANIC DEFIBRATED FIBERS 25% REINFORCING FIBERS OR LESS 10% TACKIFIER	UP TO 12 MONTHS	ON SLOPES UP TO 1:1 AND EROSIVE SOIL CONDITIONS	3000 TO 4500 LBS PER ACRE (SEE MANUFACTURERS RECOMENDATIONS)

11. THE CONTRACTOR SHALL NOT DISPOSE OF SURPLUS EXCAVATED MATERIAL FROM THE SITE WITHOUT NOTIFYING THE CITY INSPECTOR AT LEAST 48 HOURS PRIOR WITH THE LOCATION AND A COPY OF THE PERMIT ISSUED TO RECEIVE THE MATERIAL





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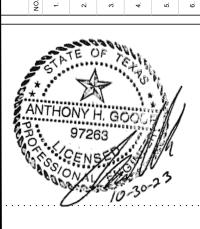
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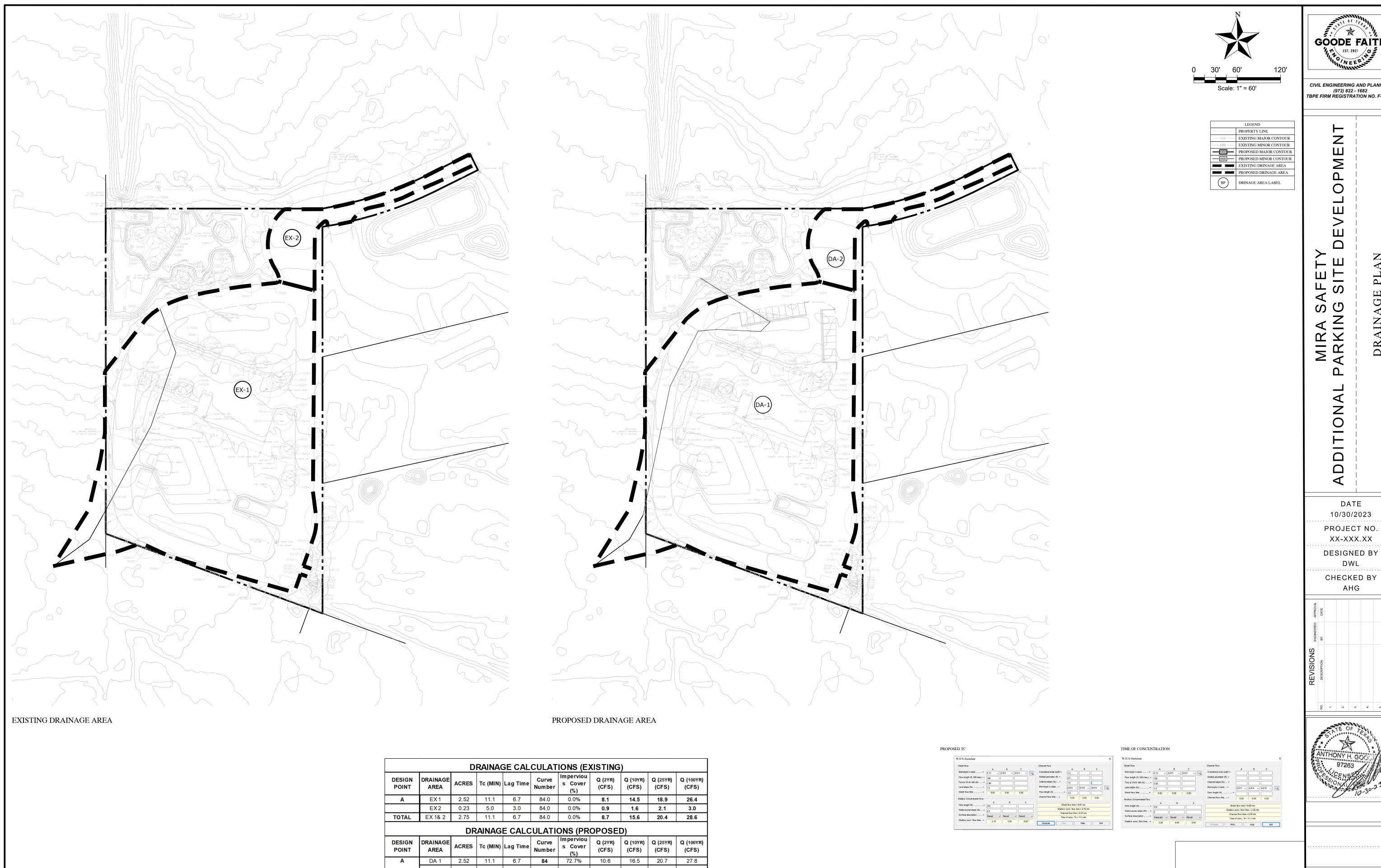
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DATE 10/30/2023 PROJECT NO. XX-XXX.XX

DESIGNED BY DWL CHECKED BY

 AHG





7.6 13.0 16.7

8.1 13.8 17.7 24.4

Pond Elevation (WSE) 1074.0 1074.2 1074.4 1074.6

DA 2 0.23 5.0 3.0 84.00 100.0% 1.3 2.0 2.4 3.2

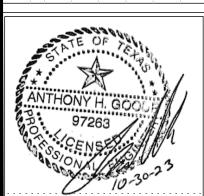
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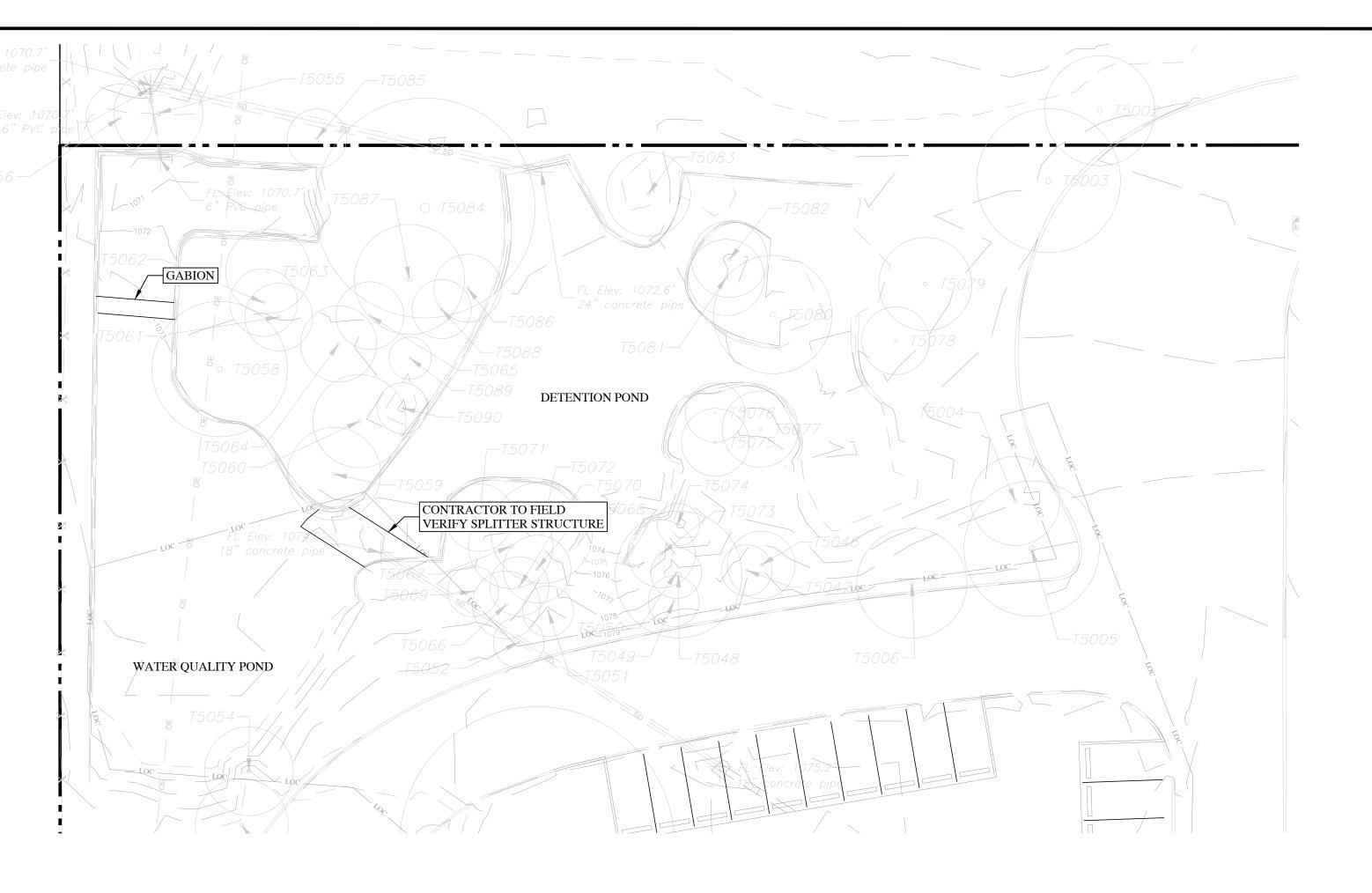


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DATE 10/30/2023 PROJECT NO. XX-XXX XX

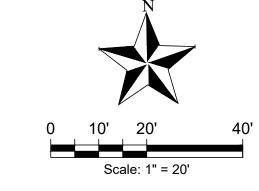
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Water Quality Pond Elevation-Area-Storage Table						
Elevation delta	Depth (ft)	Contour Area (sf)	Increment al storage (cf)	Cumulativ e Storage (cf)	Cumulativ e Storage (ac-ft)	
0.00	1070.75	7.0	0.0	0.0	0.0	
0.25	1071.00	391.0	49.8	49.8	0.001142	
0.25	1071.25	616.0	125.9	175.6	0.004032	
0.25	1071.50	738.0	169.3	344.9	0.007917	
0.25	1071.75	804.0	192.8	537.6	0.012342	
0.25	1072.00	853.0	207.1	744.8	0.017097	
0.25	1072.25	904.0	219.6	964.4	0.022139	
0.25	1072.50	958.0	232.8	1197.1	0.027482	
0.25	1072.75	1013.0	246.4	1443.5	0.033138	
0.25	1073.00	1199.0	276.5	1720.0	0.039486	
0.25	1073.25	1776.0	371.9	2091.9	0.048023	
0.25	1073.50	2426.0	525.3	2617.1	0.060083	
0.25	1073.75	3439.0	733.1	3350.3	0.076913	
0.25	1074.00	5194.0	1079.1	4429.4	0.101684	
0.25	1074.25	5650.0	1355.5	5784.9	0.132802	
0.25	1074.50	5773.0	1427.9	7212.8	0.165582	
0.25	1074.75	5877.0	1456.3	8669.0	0.199013	
0.25	1075.00	5984.0	1482.6	10151.6	0.233049	
0.25	1075.25	6083.0	1508.4	11660.0	0.267677	
0.25	1075.50	6251.0	1541.8	13201.8	0.303070	
0.25	1075.75	6324.0	1571.9	14773.6	0.339156	

Detention Pond Elevation-Area-Storage Table						
0.15	1072.60	195.0	0.0	0.0	0.000000	
0.15	1072.75	958.0	86.5	86.5	0.001985	
0.25	1073.00	1229.0	273.4	359.9	0.008261	
0.25	1073.25	1650.0	359.9	719.7	0.016523	
0.25	1073.50	2140.0	473.8	1193.5	0.027398	
0.25	1073.75	4593.0	841.6	2035.1	0.046719	
0.25	1074.00	6749.0	1417.8	3452.9	0.079267	
0.25	1074.25	8381.0	1891.3	5344.1	0.122684	
0.25	1074.50	10305.0	2335.8	7679.9	0.176305	
0.25	1074.75	11199.0	2688.0	10367.9	0.238013	
0.25	1075.00	11717.0	2864.5	13232.4	0.303773	
0.25	1075.25	12795.0	3064.0	16296.4	0.374113	
0.25	1075.50	13148.1	3242.9	19539.2	0.448559	
0.25	1075.75	13268.5	3302.1	22841.3	0.524364	
0.25	1076.00	18898.0	4020.8	26862.1	0.616670	
0.25	1076.25	20678.0	4947.0	31809.1	0.730237	



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NOTE: OWNER TO CLEAR OUT AND REMOVE ALL EXISTING DEBRIS PER POND MAINTENANCE AND APART FROM THESE CONSTRUCTION PLANS.

LCRA HIGHLAND LAKES WATERSHED ORDINANCE Updated October 25, 2023

WATER QUALITY MANAGEMENT DESIGN TOOL - Water Quality BMP Design

All references to tables and figures can be found in the Highland Lakes Ordinance Water Quality Tecl

TEP 1: USE THE IC & RUNOFF WORKSHEET TO INPUT DRAINAGE AREA AND IMPERVIOUS COVER

Total IC ac

Impervious Cover %

roof area to barrel sf

rain barrel volume cf barrel vol/roof area sf

% IC reduction

IC reduction

IC reduction

amended area **IC reduction Total IC reduction**

Designer has the option to select a water quality basin with a secondary BMP or a stand-alone BMP

The following basins require a secondary BMP, which can be up-gradient or down-gradient of the basin.

BMPs in Series utilize a water quality basin in combination with a secondary BMP

Volume

Volume

Volume

roofs

roof area # roofs IC reduction **IC reduction**

FEP 2: DETERMINE STORMWATER CREDITS TO REDUCE IMPERVIOUS COVER

porous area **IC reduction**

paver area open space IC reduction 0.00

0.00

0.00

0.00

0.00

0.00

81.6 #DIV/0! #DIV/0!

0.00

0.00

0.00

0.00

0.00

2.08 0.00 0.00 81.6 #DIV/0! #DIV/0!

1.93 1.93 1.93

1.43 #DIV/0! #DIV/0!

13,280 #DIV/0! #DIV/0!

13,944 #DIV/0! #DIV/0!

13,944 #DIV/0! #DIV/0!

24,567 #DIV/0! #DIV/0!

13,944 #DIV/0! #DIV/0!

13,944 #DIV/0! #DIV/0!

20,584 #DIV/0! #DIV/0!

24,567 #DIV/0! #DIV/0!

2,258 #DIV/0! #DIV/0!

2.08 0.00

0.00

0.00

Shady Acres

Use on an individual drainage area basis.

Impervious Cover Type

Street/Parking **Residential Lots**

Parking Lots

Stormwater Credit Type

Porous Pavement

Rainwater Harvesting

Roof-top Disconnection

Conservation Landscaping

Effective Drainage Area

1-year, 3-hour rainfall =

Sand Filter

STEP 3: WATER QUALITY BMP DESIGN

Compute Water Quality Volume (WQV) =

Compute Runoff Volume for the 1-year storm =

Primary BMP (needs secondary BMP in series)

Stand alone BMPs do not require a secondary BMP

Infiltration bench area Area

The following are stand-alone basins and their respective volume

Extended/Batch Detention Basin Volume

Wet Pond/Stormwater Wetlands Volume

Primary BMP (stand-alone BMP)

Wet Pond/Stormwater Wetlands

Bioretention Basin

Retention/Irrigation Basin

Biofiltration Basin

Soil Amendment and Conservation amended area

Natural Area Preservation Credit nat area preserved ac

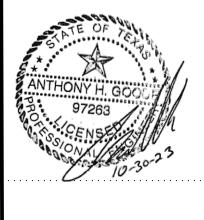
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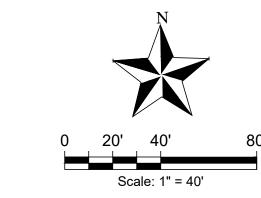
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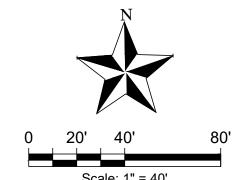
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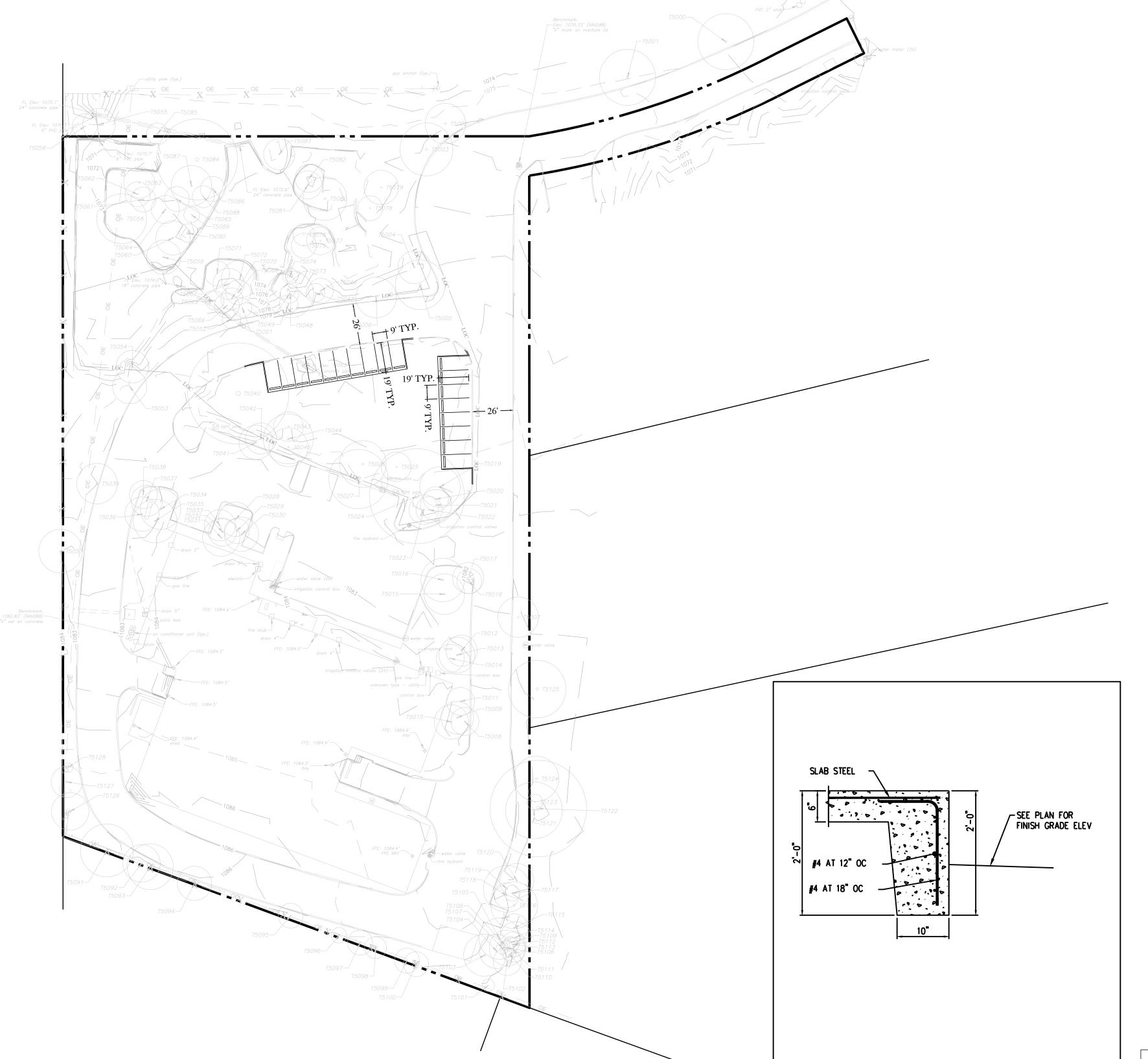
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	LEGEND
	PROPERTY LINE
000	EXISTING MAJOR CONTOUR
0000	EXISTING MINOR CONTOUR
<u>-000</u> -	PROPOSED MAJOR CONTOUR
<u>000</u>	PROPOSED MINOR CONTOUR
FF = 000.0	FINISHED FLOOR ELEVATION
○000.00	SPOT ELEVATION
	FLOW ARROW



PRECAST CONCRETE
WHEEL STOP AT ALL SPACES

2'-0" (TYP)

✓ 4" WHITE STRIPE

- WHEEL STOP WHERE SHOWN

SECTION AT CURB STOP HMAC PAVEMENT (OPTIONAL)

SCALE: 1" = 1'

9'-0" U.N.O.

TYPICAL PARKING STRIPE DETAIL
N. T. S.

DDITIONA

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DATE 10/30/2023 PROJECT NO. XX-XXX.XX DESIGNED BY DWL

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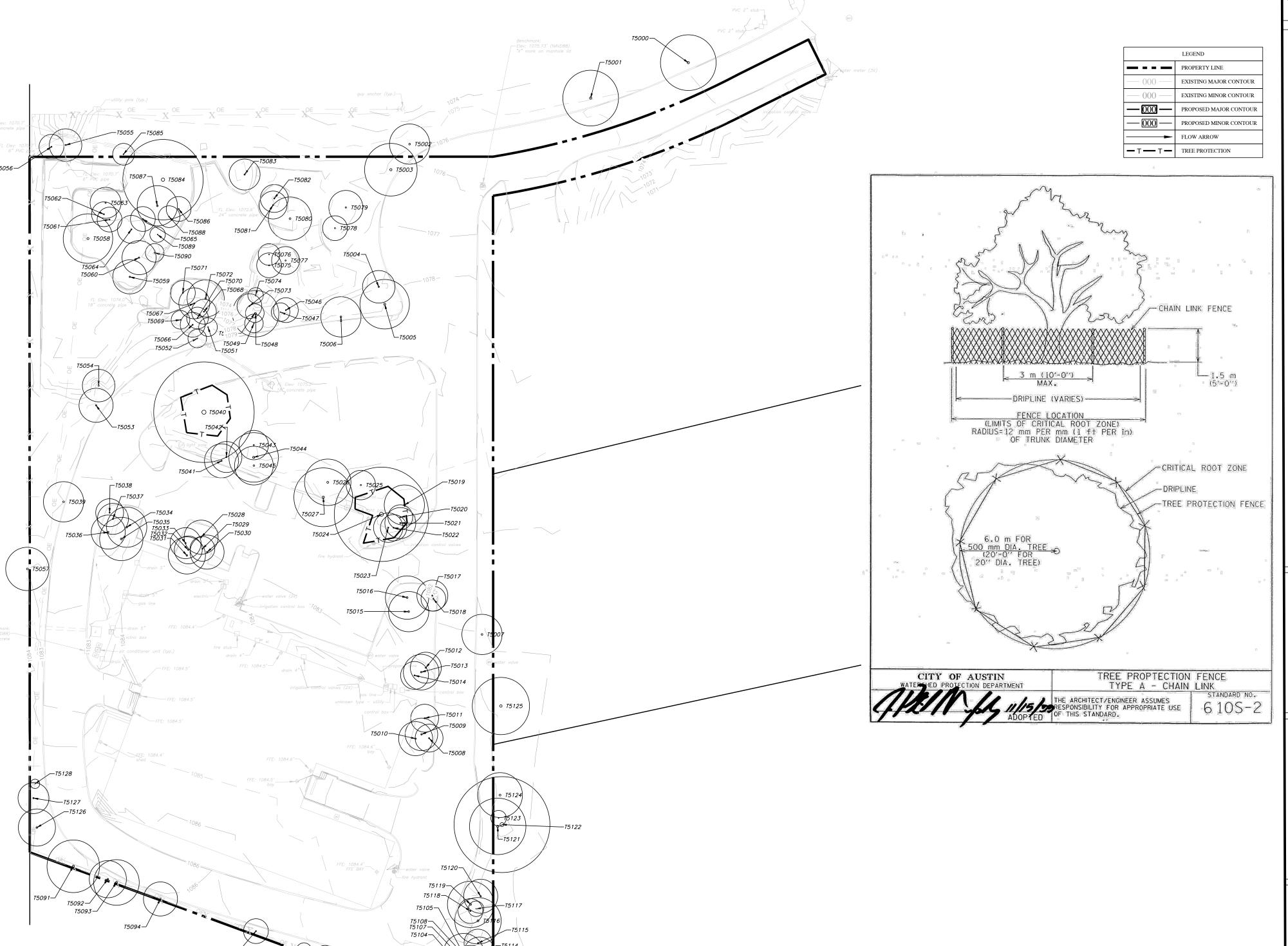
TYPICAL THICKENED EDGE GRADE BEAM SECTION SCALE: 1" = 1"

		Tree Table	
Tag #	Туре	Characteristics	Diameter (inches)
T5000	palm	single	18
T5001	palm	single	18
T5002	palm	single	13
T5003	palm	single	17
T5004	chinaberry	multi-trunk	8, 5
T5005	live oak	single	16
T5006	palm	single	13
T5007	palm	single	13
T5008	live oak	single	9
T5009	live oak	single	10.5
T5010	live oak	single	11
T5011	live oak	single	9
T5012	live oak	single 	10
T5013	live oak	single	11.5
T5014	live oak	single 	9
T5015	live oak	single	13
T5016	live oak	single	14
T5017	post oak	single	10
T5018	live oak	single	8
T5019	live oak	single	13
T5020	live oak	single	8
T5021	live oak	single	10
T5022	live oak	single	8.5
T5023	live oak	single	9.5 15.5, 13, 9, 8
T5024	live oak	multi-trunk	
T5025 T5026	live oak cedar elm	single multi-trunk	9.5 12, 6
T5027	live oak	multi-trunk	14, 10
T5028	live oak	single	11
T5029	live oak	single	8
T5030	live oak	single	11
T5031	live oak	single	12
T5032	live oak	single	9
T5033	live oak	single	10
T5034	live oak	single	13
T5035	live oak	single	14
T5036	live oak	single	11
T5037	live oak	single	10
T5038	live oak	single	9
T5039	live oak	single	13
T5040	live oak	multi-trunk	25, 15
T5041	live oak	multi-trunk	11, 10
T5042	live oak	single	10
T5043	live oak	single	9.5
T5044	live oak	single	16
T5045	live oak	single	12.5
T5046	live oak	individual trees	8, 8, 8
T5047	cedar elm	single	6
T5048	chinaberry	multi-trunk	8, 8, 6
T5049	hackberry	single	6
T5050	live oak	single	6
T5051	live oak	single	6
T5052	live oak	individual trees	6, 6
T5053	chinaberry	multi-trunk	7.5, 7
T5054	chinaberry	multi-trunk	7.5, 3, 3
T5055	live oak	single	10.5
T5056	live oak	single	8
T5057	live oak	single	/ 14
T5058	white oak	single	16
T5059	cedar elm	single	11
T5060	cedar elm	single	11
T5061	cedar elm	single	8
T5062	cedar elm	single	8
T5063	cedar elm	single	10
T5064	live oak	single (dead)	10

	<u> </u>	Tree Table	
Tag #	Туре	Characteristics	Diameter (inches)
T5065	cedar elm	multi-trunk	5, 3, 3
T5066	live oak	single	8
T5067	live oak	individual trees	10, 8, 8
	3030 (500 (400) BRANCHES (500)	### (#################################	
T5068	live oak	single	8
T5069	live oak	individual trees	6, 6
T5070	live oak	single	7
T5071	live oak	single	8
			_
T5072	live oak	single	12
T5073	live oak	individual trees	8, 6, 6,
T5074	live oak	single	5
T5075	live oak	individual trees	8, 6, 6,

T5076	live oak	individual trees	7, 6
T5077	live oak	single	9
T5078	live oak	individual trees	8, 8, 3, 3
T5079	live oak	individual trees	11, 11, 9
T5080	cedar elm	multi-trunk	8, 6, 6
T5081	hackberry	single	9
T5082	cedar elm	single	9
T5083	cedar elm	individual trees	10, 5
T5084	white oak	multi-trunk	18, 16
T5085	cedar elm	single	7
T5086	cedar elm	single	8
T5087	white oak	single	13
T5088	white oak	single	7
T5089	live oak	individual trees	5, 3, 3
T5090	live oak	individual trees	6, 5, 4, 3
T5091	ashe juniper	multi-trunk	8, 6, 5, 4, 3
T5092	hackberry	single	12
		-	
T5093	chinaberry	multi-trunk	11, 7.5
T5094	hackberry	single	11
T5095	ashe juniper	single	8
		_	
T5096	cedar elm	individual trees	5, 5
T5097	chinaberry	individual trees	8, 7, 7, 6
T5098	chinaberry	individual trees	7, 6, 4, 2
T5099	ashe juniper	single	8
			8, 5, 3
T5100	chinaberry	individual trees	/
T5101	post oak	individual trees	4, 4
T5102	live oak	individual trees	9, 3, 3
T5103	live oak	single	13.5
	live oak	single	/
T5104	live oak	individual trees	11, 6
			/
T5104	live oak	individual trees	11, 6
T5104 T5105	live oak live oak	individual trees multi-trunk	11, 6 10.5, 5.5
T5104 T5105 T5106 T5107	live oak live oak cedar elm cedar elm	individual trees multi-trunk single single	11, 6 10.5, 5.5 11.5
T5104 T5105 T5106 T5107 T5108	live oak live oak cedar elm cedar elm cedar elm	individual trees multi-trunk single single single	11, 6 10.5, 5.5 11.5 4 3
T5104 T5105 T5106 T5107 T5108 T5109	live oak live oak cedar elm cedar elm	individual trees multi-trunk single single single single	11, 6 10.5, 5.5 11.5 4 3
T5104 T5105 T5106 T5107 T5108	live oak live oak cedar elm cedar elm cedar elm	individual trees multi-trunk single single single	11, 6 10.5, 5.5 11.5 4 3
T5104 T5105 T5106 T5107 T5108 T5109	live oak live oak cedar elm cedar elm cedar elm cedar elm	individual trees multi-trunk single single single single	11, 6 10.5, 5.5 11.5 4 3
T5104 T5105 T5106 T5107 T5108 T5109 T5110	live oak live oak cedar elm cedar elm cedar elm cedar elm cedar elm	individual trees multi-trunk single single single single individual trees single	11, 6 10.5, 5.5 11.5 4 3 4 4, 2
T5104 T5106 T5107 T5108 T5109 T5110 T5111 T51112	live oak live oak cedar elm cedar elm cedar elm cedar elm live oak live oak	individual trees multi-trunk single single single single individual trees single individual trees	11, 6 10.5, 5.5 11.5 4 3 4 4, 2 8 8, 6
T5104 T5105 T5106 T5107 T5108 T5109 T5110 T5111 T5111 T5112	live oak live oak cedar elm cedar elm cedar elm cedar elm live oak live oak cedar elm	individual trees multi-trunk single single single single individual trees single individual trees single	11, 6 10.5, 5.5 11.5 4 3 4 4, 2 8 8, 6 4
T5104 T5106 T5107 T5108 T5109 T5110 T5111 T51112	live oak live oak cedar elm cedar elm cedar elm cedar elm live oak live oak	individual trees multi-trunk single single single single individual trees single individual trees	11, 6 10.5, 5.5 11.5 4 3 4 4, 2 8 8, 6
T5104 T5105 T5106 T5107 T5108 T5109 T5110 T5111 T5111 T5112	live oak live oak cedar elm cedar elm cedar elm cedar elm live oak live oak cedar elm	individual trees multi-trunk single single single single individual trees single individual trees single	11, 6 10.5, 5.5 11.5 4 3 4 4, 2 8 8, 6 4
T5104 T5105 T5106 T5107 T5108 T5109 T5110 T5111 T5111 T5112 T5113	live oak live oak cedar elm cedar elm cedar elm cedar elm live oak live oak live oak	individual trees multi-trunk single single single single individual trees single individual trees single single single	11, 6 10.5, 5.5 11.5 4 3 4 4, 2 8 8, 6 4 10
T5104 T5105 T5106 T5107 T5108 T5109 T5110 T5111 T5111 T5112 T5113 T5114 T5115 T5116	live oak live oak cedar elm cedar elm cedar elm cedar elm live oak live oak live oak live oak live oak	individual trees multi-trunk single single single single individual trees single individual trees single single single single single single	11, 6 10.5, 5.5 11.5 4 3 4 4, 2 8 8, 6 4 10 9 15
T5104 T5105 T5106 T5107 T5108 T5109 T5110 T5111 T5111 T5111 T51115 T51116 T5117	live oak live oak cedar elm cedar elm cedar elm cedar elm live oak live oak live oak live oak live oak cedar elm	individual trees multi-trunk single single single individual trees single individual trees single single single single single single single single	11, 6 10.5, 5.5 11.5 4 3 4 4, 2 8 8, 6 4 10 9 15
T5104 T5105 T5106 T5107 T5108 T5109 T5110 T5111 T5111 T5112 T5113 T5114 T5115 T5116	live oak live oak cedar elm cedar elm cedar elm cedar elm live oak live oak live oak live oak live oak	individual trees multi-trunk single single single single individual trees single individual trees single single single single single single	11, 6 10.5, 5.5 11.5 4 3 4 4, 2 8 8, 6 4 10 9 15
T5104 T5105 T5106 T5107 T5108 T5109 T5110 T5111 T5111 T5111 T51115 T51116 T5117	live oak live oak cedar elm cedar elm cedar elm cedar elm live oak live oak live oak live oak live oak cedar elm	individual trees multi-trunk single single single individual trees single individual trees single single single single single single single single	11, 6 10.5, 5.5 11.5 4 3 4 4, 2 8 8, 6 4 10 9 15
T5104 T5105 T5106 T5107 T5108 T5109 T5110 T5111 T51112 T5113 T5114 T5115 T5116 T5117 T5118 T5119	live oak live oak cedar elm cedar elm cedar elm cedar elm live oak	individual trees multi-trunk single single single single individual trees single individual trees single	11, 6 10.5, 5.5 11.5 4 3 4 4, 2 8 8, 6 4 10 9 15 5 8 15
T5104 T5105 T5106 T5107 T5108 T5109 T5110 T5111 T5111 T51115 T51116 T51117 T51118 T51119 T5120	live oak live oak cedar elm cedar elm cedar elm cedar elm live oak	individual trees multi-trunk single single single single individual trees single individual trees single	11, 6 10.5, 5.5 11.5 4 3 4 4, 2 8 8, 6 4 10 9 15 5 8 15 11
T5104 T5105 T5106 T5107 T5108 T5109 T5110 T5111 T51112 T51114 T51115 T51116 T51117 T51118 T51118 T51119 T51120 T51121	live oak live oak cedar elm cedar elm cedar elm cedar elm live oak	individual trees multi-trunk single single single single individual trees single individual trees single single	11, 6 10.5, 5.5 11.5 4 3 4 4, 2 8 8, 6 4 10 9 15 5 8 15 11 13, 10.5
T5104 T5105 T5106 T5107 T5108 T5109 T5110 T5111 T5111 T51115 T51116 T51117 T51118 T51119 T5120	live oak live oak cedar elm cedar elm cedar elm cedar elm live oak	individual trees multi-trunk single single single single individual trees single individual trees single	11, 6 10.5, 5.5 11.5 4 3 4 4, 2 8 8, 6 4 10 9 15 5 8 15 11
T5104 T5105 T5106 T5107 T5108 T5109 T5110 T5111 T51112 T51114 T51115 T51116 T51117 T51118 T51118 T51119 T51120 T51121	live oak live oak cedar elm cedar elm cedar elm cedar elm live oak	individual trees multi-trunk single single single single individual trees single individual trees single single	11, 6 10.5, 5.5 11.5 4 3 4 4, 2 8 8, 6 4 10 9 15 5 8 15 11 13, 10.5
T5104 T5105 T5106 T5107 T5108 T5109 T5110 T5111 T5112 T5113 T5114 T5115 T5116 T5117 T5118 T5119 T5120 T5121 T5122 T5123	live oak live oak cedar elm cedar elm cedar elm cedar elm live oak	individual trees multi-trunk single single single single individual trees single individual trees single	11, 6 10.5, 5.5 11.5 4 3 4 4, 2 8 8, 6 4 10 9 15 5 8 15 11 13, 10.5 18, 16, 10 5
T5104 T5105 T5106 T5107 T5108 T5109 T5110 T5111 T5112 T5113 T5114 T5115 T5116 T5117 T5118 T5119 T5120 T5121 T5122 T5123 T5124	live oak live oak cedar elm cedar elm cedar elm cedar elm live oak	individual trees multi-trunk single single single single individual trees single individual trees single multi-trunk multi-trunk single multi-trunk	11, 6 10.5, 5.5 11.5 4 3 4 4, 2 8 8, 6 4 10 9 15 5 8 15 11 13, 10.5 18, 16, 10 5 8, 7, 6
T5104 T5105 T5106 T5107 T5108 T5109 T5110 T5111 T5112 T5113 T5114 T5115 T5116 T5117 T5118 T5119 T5120 T5121 T5122 T5123 T5124 T5125	live oak live oak cedar elm cedar elm cedar elm cedar elm live oak	individual trees multi-trunk single single single single individual trees single individual trees single	11, 6 10.5, 5.5 11.5 4 3 4 4, 2 8 8, 6 4 10 9 15 5 8 15 11 13, 10.5 18, 16, 10 5 8, 7, 6 18.5
T5104 T5105 T5106 T5107 T5108 T5109 T5110 T5111 T5112 T5113 T5114 T5115 T5116 T5117 T5118 T5119 T5120 T5121 T5122 T5123 T5124	live oak live oak cedar elm cedar elm cedar elm cedar elm live oak	individual trees multi-trunk single single single single individual trees single individual trees single multi-trunk multi-trunk single multi-trunk	11, 6 10.5, 5.5 11.5 4 3 4 4, 2 8 8, 6 4 10 9 15 5 8 15 11 13, 10.5 18, 16, 10 5 8, 7, 6
T5104 T5105 T5106 T5107 T5108 T5109 T5110 T5111 T5112 T5113 T5114 T5115 T5116 T5117 T5118 T5119 T5120 T5121 T5122 T5123 T5124 T5125	live oak live oak cedar elm cedar elm cedar elm cedar elm live oak	individual trees multi-trunk single single single single individual trees single individual trees single multi-trunk multi-trunk single multi-trunk single	11, 6 10.5, 5.5 11.5 4 3 4 4, 2 8 8, 6 4 10 9 15 5 8 15 11 13, 10.5 18, 16, 10 5 8, 7, 6 18.5







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Scale: 1" = 40'

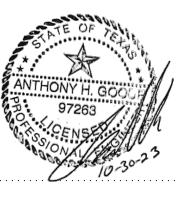
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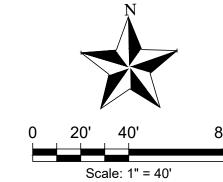
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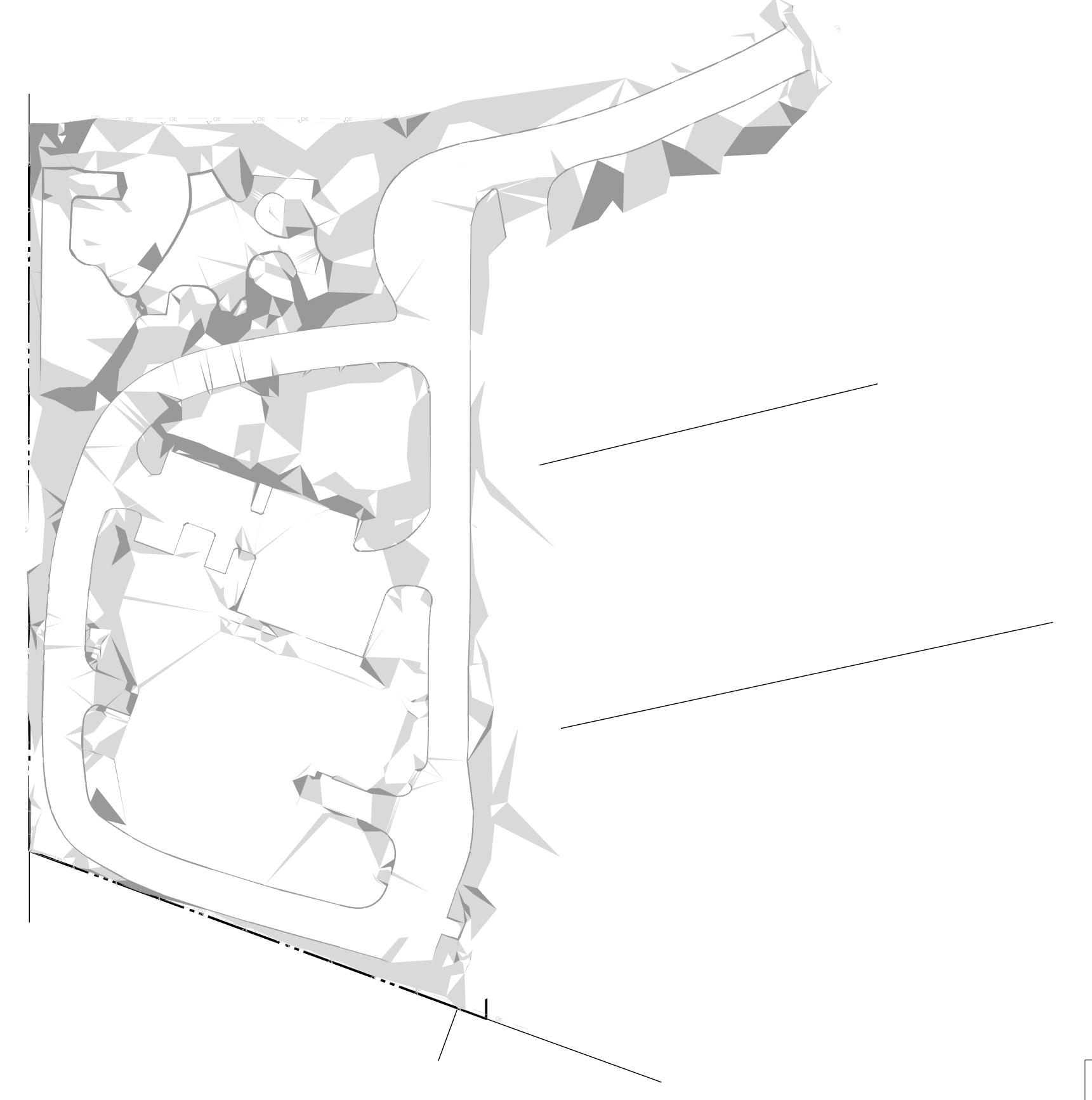


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Slopes Table

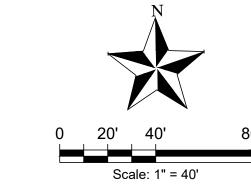
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PE FIRM REGISTRATION NO. F-22

DDITIONAL PARKING SITE DEVELOPMEN

DATE
10/30/2023
PROJECT NO.
XX-XXX.XX
DESIGNED BY

DWL CHECKED BY AHG

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