# Brushy Creek Municipal Utility District

PEPPER ROCK PARK PARKING LOT



PRESIDENT REBECCA B. TULLOS VICE PRESIDENT

**RUSS SHERMER** 

**SECRETARY** KIM FILIATRAULT

ASSISTANT SECRETARY/

TREASURER

TREASURER

3/29/16

DATE

DONNA B. PARKER

SHEAN R. DALTON

PROVED FOR CONSTRUCTION\*: 3-24-16 DATE

\*SEE SPECIAL NOTE #3, PG 2

REVIEWED BY:

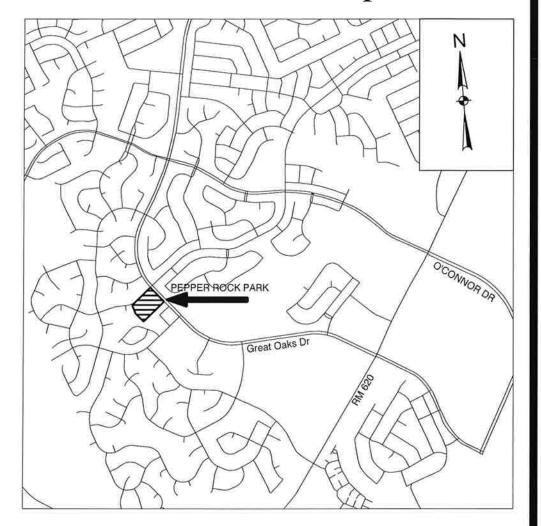
VILLIAMSON COUNTY



TWO SIERRA WAY, SUITE 105 GEORGETOWN, TEXAS 78626-7574

**MARCH 2016** AVO 29891

# Location Map



# SHEET LIST

GENERAL NOTES
PROJECT LAYOUT
TYPICAL SECTIONS
PEPPER ROCK PARK EROSION CONTROL, DEMOLITION
& LANDSCAPING

PEPPER ROCK PARK GRADING PLAN PEPPER ROCK PARK PAVEMENT PLAN CIVIL DETAILS

SD1.01-SD1.24 STANDARD DETAILS



### GENERAL NOTES:

- All construction shall be in accordance with Williamson County standards, BCMUD standards, State Law & Regulations.
- Any existing utilities, pavement, curbs, sidewalks, structures, trees, etc., not planned for destruction or removal that are damaged or removed shall be repaired or replaced at contractor's
- The Contractor shall verify all depths and locations of existing utilities prior to any construction. Any discrepancies with the construction plans found in the field shall be brought immediately to the attention of the Engineer who shall be responsible for
- revising the plans as appropriate. The Contractor shall give the BCMUD 48 hours notice before
- beginning each phase of construction
- All areas disturbed or exposed during construction shall be revegetated in accordance with the plans and specifications. Revegetation of all disturbed or exposed areas shall consist of sodding or seeding, at the Contractor's option unless otherwise called out in plans. However, the type of revegetation must equal or exceed the type of vegetation present before
- The Contractor and the Engineer shall keep accurate records of all construction that deviates from the plans. The Engineer shall furnish BCMUD accurate "As-Built" drawings following completion of all construction. These "As-Built" drawings shall meet with the satisfaction of the Engineering and Development Services Department prior to final acceptance.
- The Brushy Creek MUD shall not be petitioned for acceptance until all necessary easement documents have been signed and recorded.
- When construction is being carried out within easements, the Contractor shall confine his work to within the permanent and any temporary easements. Prior to final acceptance, the Contractor shall be responsible for removing all trash and debris within the permanent and temporary easements. Clean-up shall be to the satisfaction of the Engineer.
- Prior to any construction, the Contractor shall apply for and secure all proper permits from the appropriate authorities.
- Contact designated BCMUD representative for disposition of salvaged material.

# BCMUD Designated Representative: Mike Petter 512-255-7871 ext. 221

Available benchmarks that may be utilized for the construction of this project are described as follows:

### SURVEY CONTROL TABLE

Point	Northing	Easting	Elevation
100	10154301.02	3112873.93	901.28
101	10154527.42	3113122.21	895.48

### **IRENCH SAFETY NOTES:**

- In accordance with the Laws of the State of Texas and the U.S. Occupational Safety and Health Administration regulations, all trenches over 5 feet in depth in either hard and compact or soft and unstable soil shall be sloped, shored, sheeted, braced or otherwise supported. Furthermore, all trenches less than 5 feet in depth shall also be effectively protected when hazardous ground movement may be expected. Trench safety systems to be utilized for this project will be provided by the Contractor. utilized for this project will be provided by the Contractor. In accordance with the U. S. Occupational Safety and Health
- Administration regulations, when persons are in trenches 4 feet deep or more, adequate means of exit, such as a ladder or steps, must be provided and located so as to require no more than 25 feet of lateral travel.
- If trench safety system details were not provided in the plans because trenches were anticipated to be less than 5 feet in depth and during construction it is found that trenches are in fact 5 feet or more in depth or trenches less than 5 feet in depth are in an area where hazardous ground movement is expected, all construction shall cease, the trenched area shall be barricaded and the Engineer notified immediately. Construction shall not resume until appropriate trench safety system details, as designed by a professional engineer, are retained and copies submitted to the Engineer.

### STREET AND DRAINAGE NOTES:

- All testing shall be done by an independent laboratory at the Owner's expense. Any retesting shall be paid for by the Contractor. Testing shall be coordinated with the Inspector and he shall be given a minimum of 24 hours notice prior to any testina.
- Backfill behind the curb shall be compacted to obtain a minimum of 95% maximum density to within 3° of top of curb. Material used shall be primarily granular with no rocks larger than 6' in the greatest dimension. The remaining 3' shall be clean topsoil free from all clods and suitable for sustaining plant life.

### All R.C.P. shall be minimum class III.

TRAFFIC MARKING NOTES:

- Any methods, street markings and signage necessary for warning motorists, warning pedestrians or diverting traffic during construction shall conform to the Texas Manual of Uniform Traffic Control Devices for Streets and Highways, latest edition.
- All pavement markings, markers, paint, traffic buttons, traffic controls and signs shall be installed in accordance with the Texas Department of Transportation Standard Specifications for Construction of Highways, Streets and Bridges and, the Texas Manual of Uniform Traffic Control Devices for Streets and Highways, latest editions.

### EROSION AND SEDIMENTATION CONTROL NOTES:

- Erosion control measures, site work and restoration work shall be in accordance with the details.
- All slopes shall be sodded or seeded with approved grass, grass mixtures or ground cover suitable to the area and season in which they are applied.
- Silt fences, rock berms, sedimentation basins and similarly recognized techniques and materials shall be employed during construction to prevent point source sedimentation loading of downstream facilities. Additional measures may be required if, in the opinion of the Engineer, they are warranted.
- All temporary erosion control measures shall not be removed until final inspection and approval of the project by the Engineer. It shall be the responsibility of the Contractor to maintain all temporary erosion control structures and to remove each
- All mud, dirt, rocks, debris, etc., spilled, tracked or otherwise deposited on existing paved streets, drives and areas used by the public shall be cleaned up immediately.

- The contractor shall not close traffic lanes during standard hours for child drop off and pick up in schoolzones. Contact Cedar Valley Middle School to confirm times.
- NO EXTRA PAYMENT SHALL BE ALLOWED FOR WORK CALLED FOR ON THE PLANS BUT NOT INCLUDED ON THE BID SCHEDULE. THIS INCIDENTAL WORK WILL BE REQUIRED AND SHALL BE INCLUDED UNDER THE PAY ITEM TO WHICH IT RELATES.
- BCMUD shall be responsible for the maintenance of the improvements in these plans.

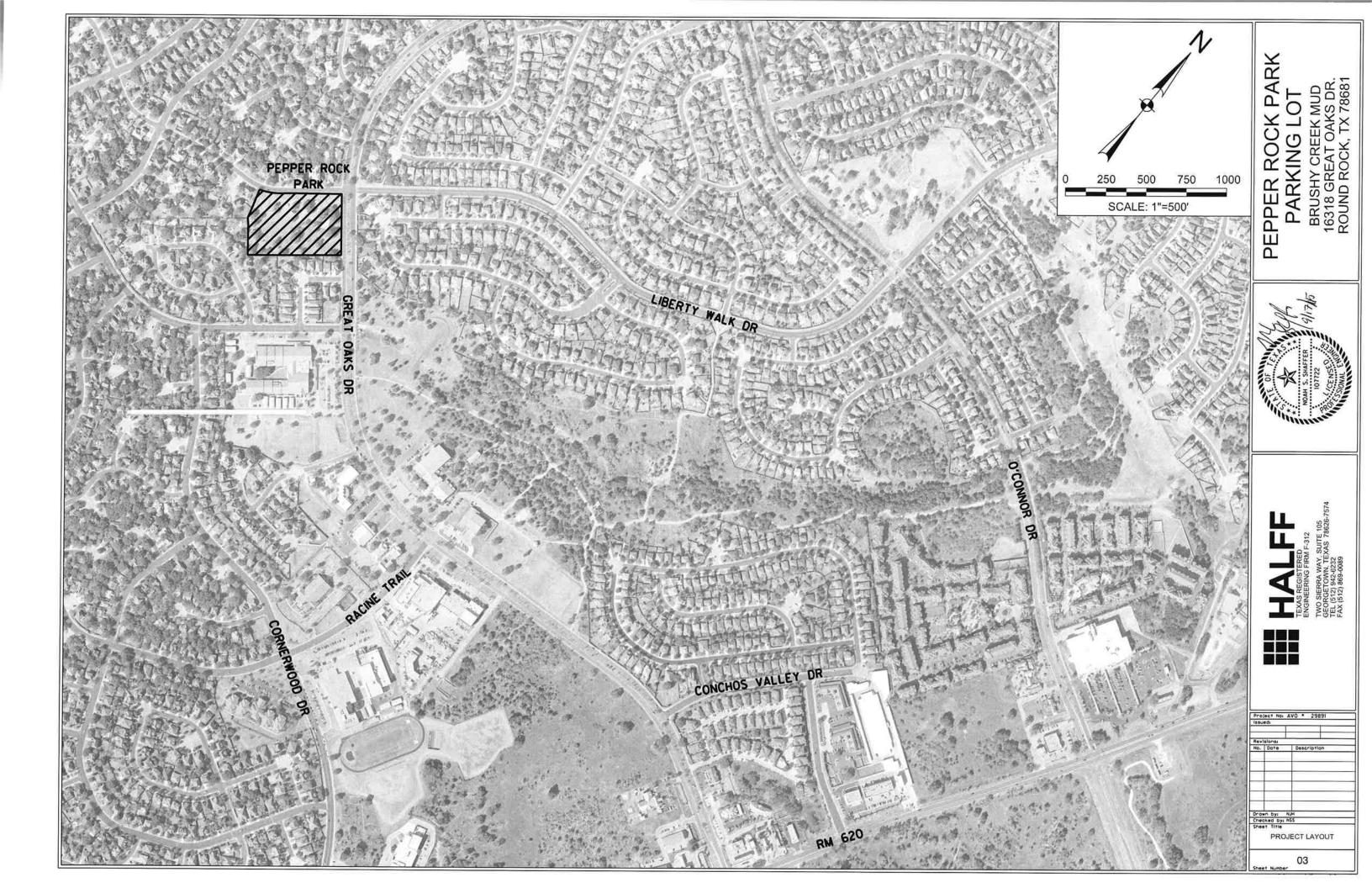




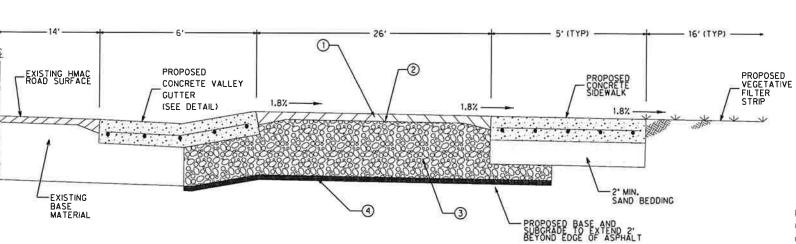


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GENERAL NOTES



EXISTING TYPICAL SECTION NOT TO SCALE



PROPOSED TYPICAL SECTION

- NOT TO SCALE

PAVEMENT SECTIONS

2' HMAC (TY D)

PRIME COAT 9' FLEXIBLE BASE

6' MOISTURE CONDITIONED SUBGRADE

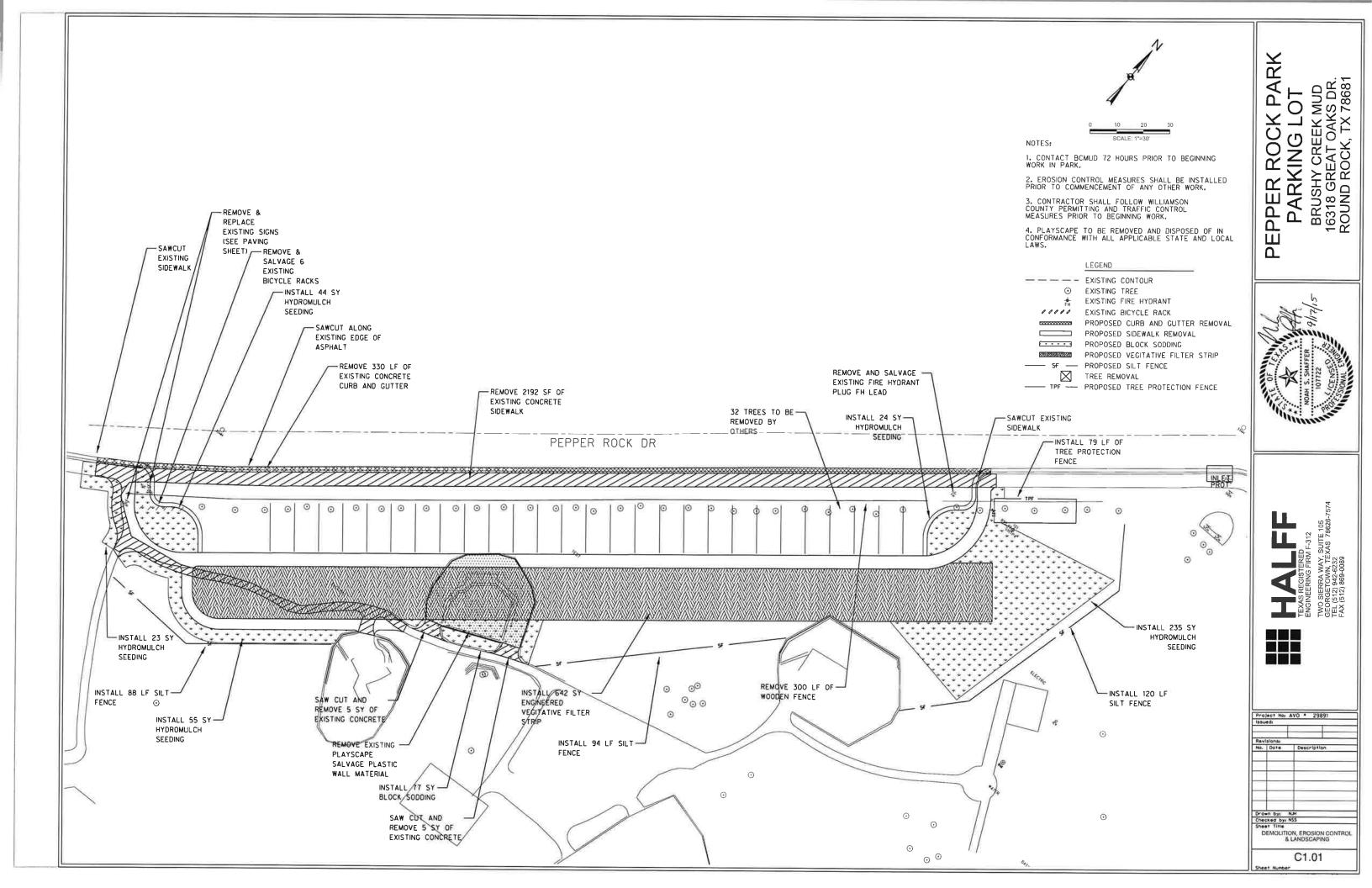
NOTES

1 PAVEMENT SECTION DESIGN TO BE
BASED ON GEOTECHNICAL REPORT
TOWNSED BY RABA KISTNER INC.

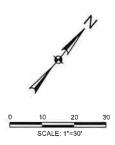






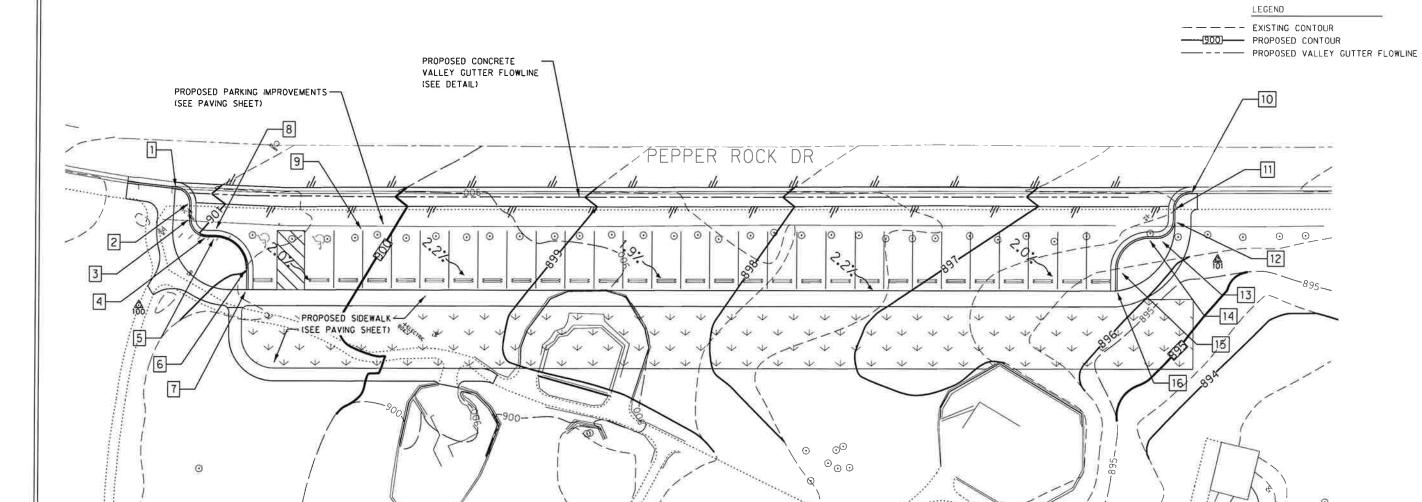


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POINT	N	E	ELEVATION	COMMENT	POINT	N	E,	ELEVATION	COMMENT
100	10154301.02	3112873.93	901.28	SVY CNTRL	11	10154530.82	3113101.89	896,94	PT BOC
101	10154527.42	3113122.21	895.48	SVY CNTRL	12	10154528.16	3113104.12	896.92	PC BOC
1	10154336.48	3112859.02	901.65	TIE-IN BOC	13	10154520.41	3113103.43	896.87	PT BOC
2	10154335.69	3112865.54	901.61	PT BOC	14	10154518.80	3113101.50	896,86	PC BOC
3	10154331.82	3112868.76	901.58	PC BOC	15	10154504.72	3113100.23	896.78	PT BOC
4	10154331.11	3112876.51	901.54	PT BOC	16	10154499.73	3113104.40	896.26	END BOC
5	10154332.72	3112878.45	901.53	PC BOC					
6	10154376.11	3112892.53	901.45	PT BOC					
7	10154326.44	3112896.69	900.92	END BOC					
8	10154334.44	3112877.41	901.03	ASPHAL T					
9	10154363.71	3112912.48	900.23	ASPHALT					
10	10154537.86	3113102.51	896.91	TIE-IN BOC					



1. HORIZONTAL & VERTICAL DATA PROVIDED IN TABLE ARE TO BACK OF CURB, UNLESS OTHERWISE NOTED.

2. HANDICAP PARKING SPOTS AND LOADING ZONE SHALL BE A MAXIMUM OF 2% SLOPE IN ALL DIRECTIONS





BRUSHY CREEK MUD 16318 GREAT OAKS DR. ROUND ROCK, TX 78681

**PARKING LOT** 

PARK

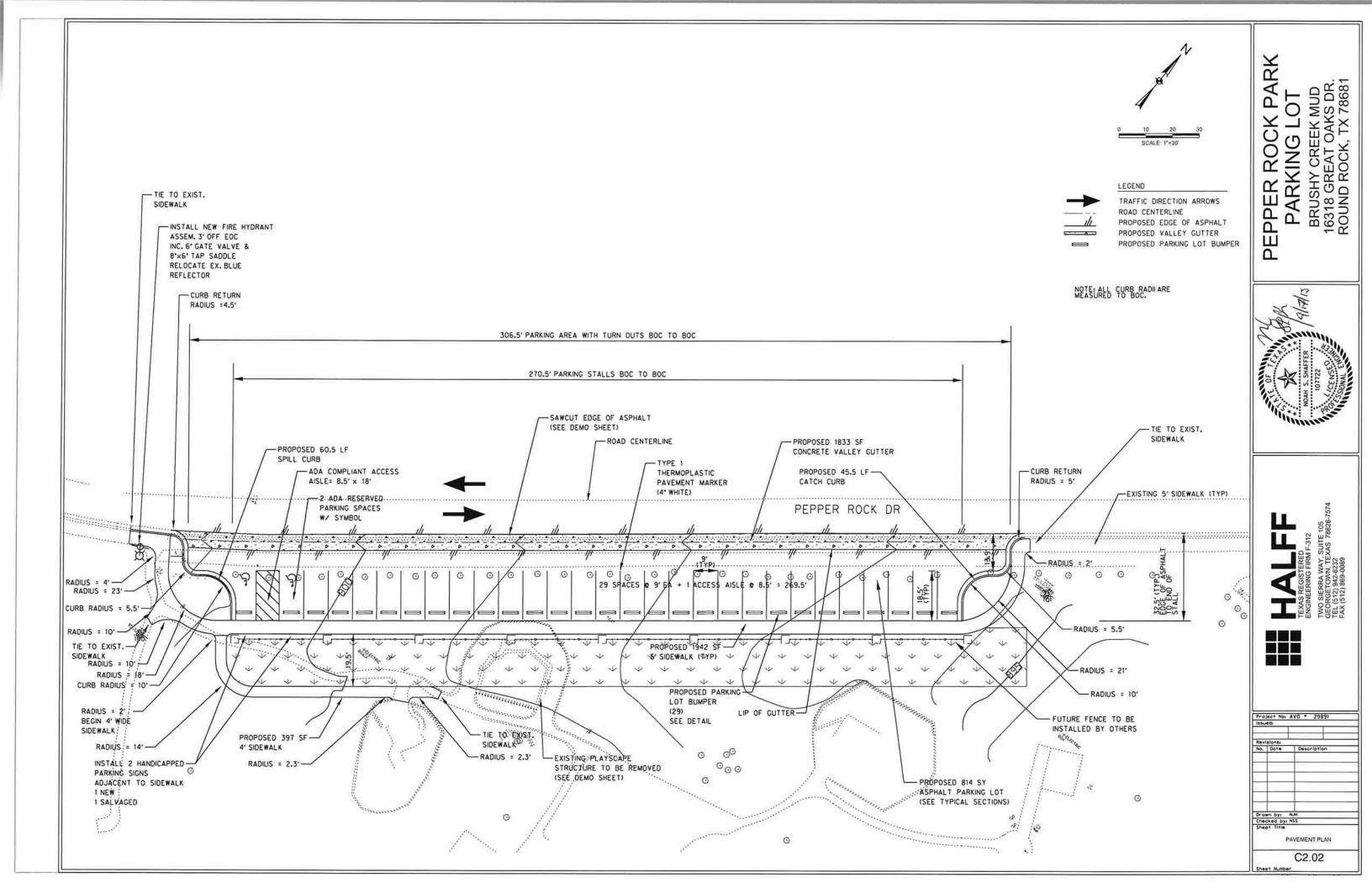
PEPPER ROCK

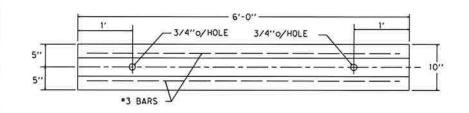


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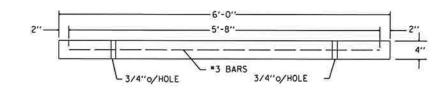
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GRADING PLAN

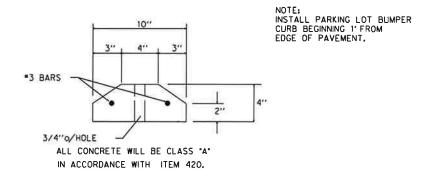




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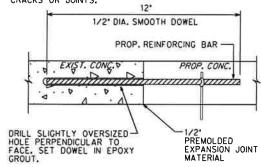
# LONGITUDINAL SECTION



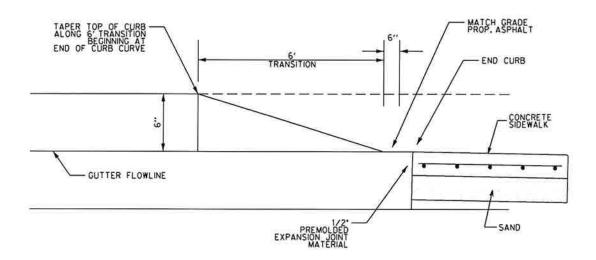
# CROSS SECTION



NOTE: NORMAL SPACING OF REINFORCING BARS WILL NOT BE LESS THAN 24° AND NOT MORE THAN 36°. HOWEVER, REINFORCING BARS WILL BE AT LEAST 12° FROM EXIST. CRACKS OR JOINTS.



(C2) DOWEL DETAIL N.T.S.



C3 CURB TRANSITION TO SIDEWALK N.T.S.

PEPPER ROCK PARK
PARKING LOT
BRUSHY CREEK MUD
16318 GREAT OAKS DR.
ROUND ROCK, TX 78681





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ALL TREES NOT LOCATED WITHIN THE LIMITS OF CONSTRUCTION AND OUTSIDE OF DISTURBED AREAS SHALL BE PRESERVED. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL TREES TO BE PRESERVED FROM HIS ACTIVITIES, ALL TREES SHOWN TO BE RETAINED WITHIN THE LIMITS OF CONSTRUCTION ON THE PLANS, SHALL BE PROTECTED DURING CONSTRUCTION WITH FENCING. SEE: TREE PROTECTION TREE WELLS (EC-02), TREE PROTECTION TREE LOCATION (EC-03) AND TREE PROTECTION FENCE-CHAIN LINK (EC-04). TREE PROTECTION FENCES SHALL BE ERECTED ACCORDING TO CITY STANDARDS FOR TREE PROTECTION, INCLUDING TYPES OF FENCING AND SIGNAGE. TREE PROTECTION FENCES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING, OR GRADING) AND SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF THE CONSTRUCTION 5. EROSION AND SEDIMENTATION CONTROL BARRIERS SHALL BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILD-UP WITHIN TREE DRIPLINES. FENCES SHALL COMPLETELY SURROUND THE TREE OR CLUSTERS OF TREES, LOCATED AT THE OUTERMOST LIMITS OF THE TREE BRANCHES (DRIPLINE) OR CRITICAL ROOT ZONE (CRZ), WHICHEVER IS GREATER; AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT IN ORDER TO PREVENT THE FOLLOWING: SOIL COMPACTION IN CRZ AREA RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF EQUIPMENT OR MATERIAL CRZ DISTURBANCES DUE TO GRADE CHANGES OR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE FORESTRY 6B, MANAGER WOUNDS TO EXPOSED ROOTS, TRUNK, OR LIMBS BY MECHANICAL EQUIPMENT OTHER ACTIVITIES DETRIMENTAL TO TREES SUCH AS CHEMICAL STORAGE, CONCRETE TRUCK CLEANING, AND FIRES. EXCEPTIONS TO INSTALLING TREE FENCES AT THE TREE DRIPLINES OR CRZ, WHICHEVER IS GREATER, MAY BE PERMITTED IN THE FOLLOWING CASES: 7A. WHERE THERE IS TO BE AN APPROVED GRADE CHANGE, IMPERMEABLE PAVING SURFACE, OR TREE WELL; WHERE PERMEABLE PAVING IS TO BE INSTALLED, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA. WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE NO CLOSER THAN 6 FEET TO THE **BUILDING** WHERE THERE ARE SEVERE SPACE CONSTRAINTS DUE TO TRACT SIZE, OR OTHER SPECIAL REQUIREMENTS, CONTACT THE FORESTRY MANAGER TO DISCUSS ALTERNATIVES. 8. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN A FENCE THAT IS CLOSER THAN 5 FEET TO A TREE TRUNK, THE TRUNK SHALL BE PROTECTED BY STRAPPED-ON PLANKING TO A HEIGHT OF 8 FEET (OR TO THE LIMITS OF LOWER BRANCHING) IN ADDITION TO THE REDUCED FENCING PROVIDED. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN AREAS OF UNPROTECTED ROOT ZONES UNDER THE DRIPLINE OR CRZ, WHICHEVER IS GREATER, THOSE AREAS SHOULD BE COVERED WITH 4 INCHES OF ORGANIC MULCH TO MINIMIZE SOIL COMPACTION 10. ALL GRADING WITHIN CRZ AREAS SHALL BE DONE BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE ROOT DAMAGE. PRIOR TO GRADING, RELOCATE PROTECTIVE FENCING TO 2 FEET BEHIND THE GRADE CHANGE AREA. 11. ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL AND BACKFILLED WITH GOOD QUALITY TOP SOIL WITHIN TWO DAYS. IF EXPOSED ROOT AREAS CANNOT BE BACKFILLED WITHIN 2 DAYS, AN ORGANIC MATERIAL WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION SHALL BE PLACED TO COVER THE ROOTS UNTIL BACKFILL CAN OCCUR. 12. PRIOR TO EXCAVATION OR GRADE CUTTING WITHIN TREE DRIPLINES, A CLEAN CUT SHALL BE MADE WITH A ROCK SAW OR SIMILAR EQUIPMENT, IN A LOCATION AND TO A DEPTH APPROVED BY THE FORESTRY MANAGER, TO MINIMIZE DAMAGE TO REMAINING ROOTS. 13. TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES WILL BE WATERED DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER. TREE CROWNS ARE TO BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION 14. WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE, A PLASTIC VAPOR BARRIER SHALL BE PLACED BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE CRZ. 15. ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE. 16. NO LANDSCAPE TOPSOIL DRESSING GREATER THAN FOUR (4) INCHES SHALL BE PERMITTED WITHIN THE DRIPLINE OR CRZ OF TREES, WHICHEVER IS GREATER, NO TOPSOIL IS PERMITTED ON ROOT FLARES OF ANY TREE. 17. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC, AND CONSTRUCTION EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS. ALL PRUNING MUST BE DONE ACCORDING TO CITY STANDARDS AND AS OUTLINED IN LITERATURE PROVIDED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA PRUNING TECHNIQUES) 18 ALL OAK TREE CUTS, INTENTIONAL OR UNINTENTIONAL, SHALL BE SEALED WITH AN APPROVED PRUNING SEALER IMMEDIATELY (WITHIN 10 MINUTES). TREE PAINT MUST BE KEPT ON SITE AT ALL TIMES 19. THE FORESTRY MANAGER HAS THE AUTHORITY TO REQUIRE ADDITIONAL TREE PROTECTION BEFORE OR DURING CONSTRUCTION. 20. TREES APPROVED FOR REMOVAL SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED. REFER TO THE CITY OF ROUND ROUND ROCK TREE TECHNICAL MANUAL FOR APPROPRIATE REMOVAL METHODS.

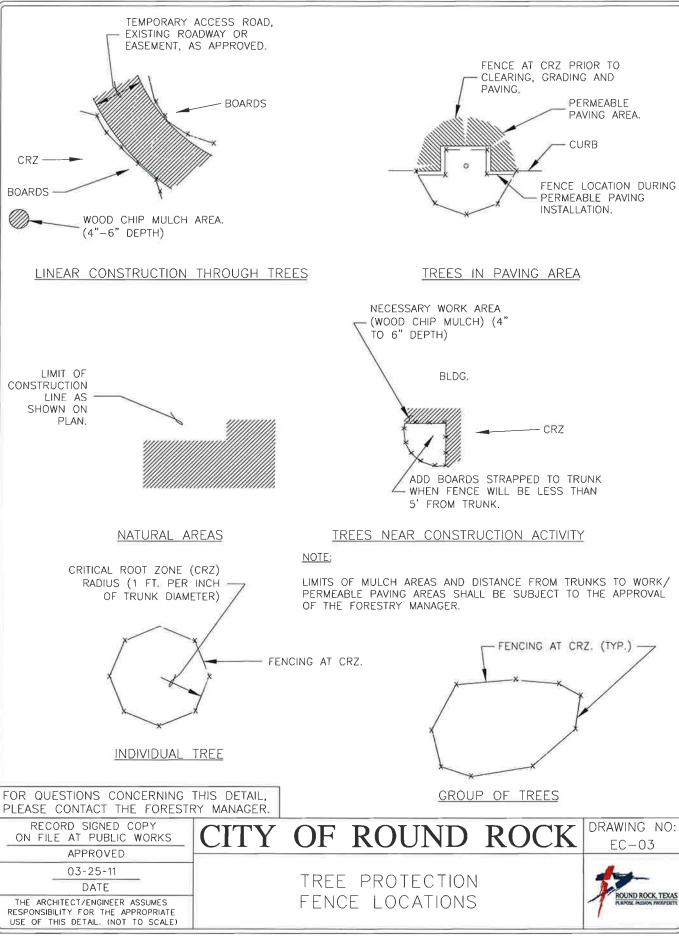
PRIOR TO CONSTRUCTION, ALL LOWER TREE LIMBS OVER ROADWAYS MUST BE PRUNED TO A HEIGHT OF 14 FEET USING THE TECHNIQUES DESCRIBED IN THE CITY OF ROUND ROCK TREE TECHNICAL MANUAL 22. DEVIATIONS FROM THE ABOVE REQUIREMENTS AND NEGLIGENT DAMAGE TO TREES MAY BE CONSIDERED AS ORDINANCE VIOLATIONS. FOR QUESTIONS CONCERNING THIS DETAIL PLEASE CONTACT THE FORESTRY MANAGER RECORD SIGNED COPY CITY OF ROUND ROCK DRAWING NO ON FILE AT PUBLIC WORKS EC - 01**APPROVED** 03-25-11

TREE PROTECTION NOTES

THE ARCHITECT/ENGINEER ASSUMES

RESPONSIBILITY FOR THE APPROPRIATE

USE OF THIS DETAIL (NOT TO SCALE)



PEPPER ROCK PARK
PARKING LOT
BRUSHY CREEK MUD
16318 GREAT OAKS DR.
ROUND ROCK, TX 78681



EXAS REGISTERED

REALS REGISTERED

NGINEERING FIRM F-312

WO SIERRA WAY, SUITE 105

BEORGETOWN, TEXAS 78626-7574

EL (\$12) 864-0632

AX (\$13) 864-0632



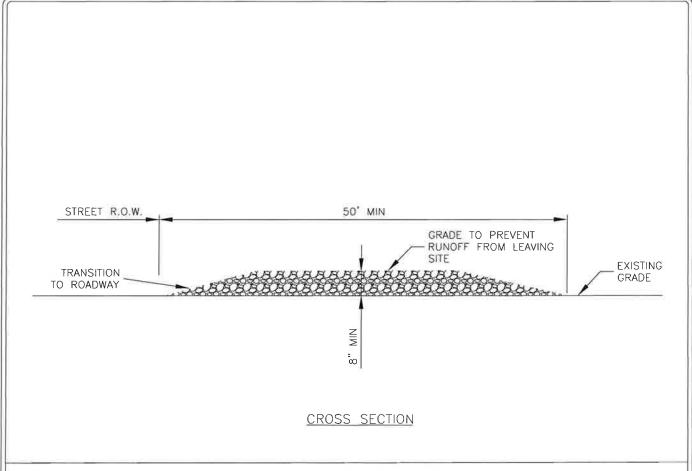
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STANDARD DETAILS

SD1.01



- 1. STONE SIZE SHALL BE 3" 8" OPEN GRADED ROCK
- 2. THICKNESS OF CRUSHED STONE PAD TO BE NOT LESS THAN 8".
  - LENGTH SHALL BE A MINIMUM OF 50' FROM ACTUAL ROADWAY, AND WIDTH NOT LESS THAN FULL WIDTH OF
- 4. ENTRANCE SHALL BE PROPERLY GRADED TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
  5. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY BY CONTRACTOR.
- AS NECESSARY, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT OF WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.

RECORD SIGNED COPY ON FILE AT PUBLIC WORKS **APPROVED** 03-25-11 THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR THE APPROPRIATE USE OF THIS DETAIL, (NOT TO SCALE)

STABILIZED CONSTRUCTION ENTRANCE DETAIL

CITY OF ROUND ROCK



DRAWING NO

EC-09

PA  $\overline{0}$ **PARKING** EPPER 1





SD1.02