

PARKS & RECREATION
SAN ANTONIO

CITY OF SAN ANTONIO, TEXAS

PARKS & RECREATION DEPARTMENT
LINEAR CREEK GREENWAYS DIVISION

5800 OLD HWY 90 SAN ANTONIO, TX 78227 PH # 210-207-4091

LEON CREEK GREENWAY NORTH VALERO TRAILHEAD TO I-10 (0.63MI.)

C.O.S.A. - 26-00613

TEXAS DEPARTMENT OF
TRANSPORTATION
SAN ANTONIO DISTRICT
APPROVED
EXCEPT AS NOTED IN RED
DATE: 3/10/2015
BY: *[Signature]*
APPROVAL OF THIS DRAWING DOES
NOT RELIEVE THE CONTRACTOR OF
THE RESPONSIBILITY FOR THE
CORRECTNESS OF DETAILS.

CONSULTANTS-DESIGN TEAM

GIBBONS SURVEYING & MAPPING INC.
P.O. BOX 700576
SAN ANTONIO, TX. 78270
210-366-4600

KCA ENGINEERS, INC. (MEP)
9880 BRAUN RD., SUITE 302B
SAN ANTONIO, TX. 78254
210-844-4532

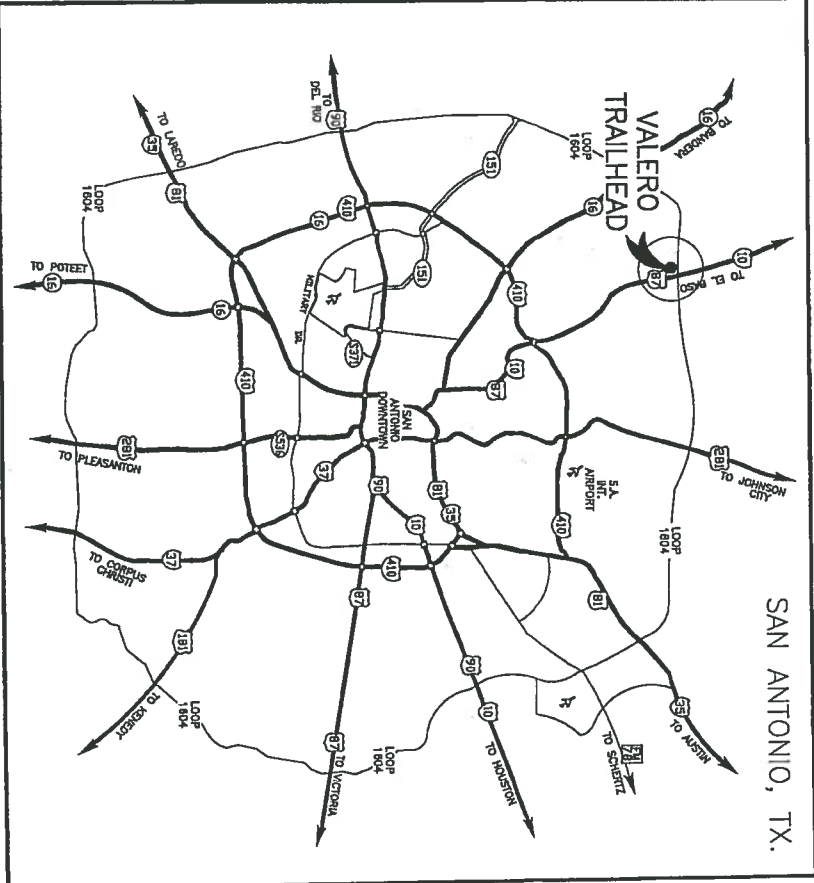
ACCESSIBILITY UNLIMITED
1218 E. EUCLID, SUITE 1
SAN ANTONIO, TX. 78212
210-271-1014

LUNDY & FRANK ENGINEERING, INC.
(STRUCTURAL)
549 HEIMER RD.
SAN ANTONIO, TX. 78232
210-979-7900

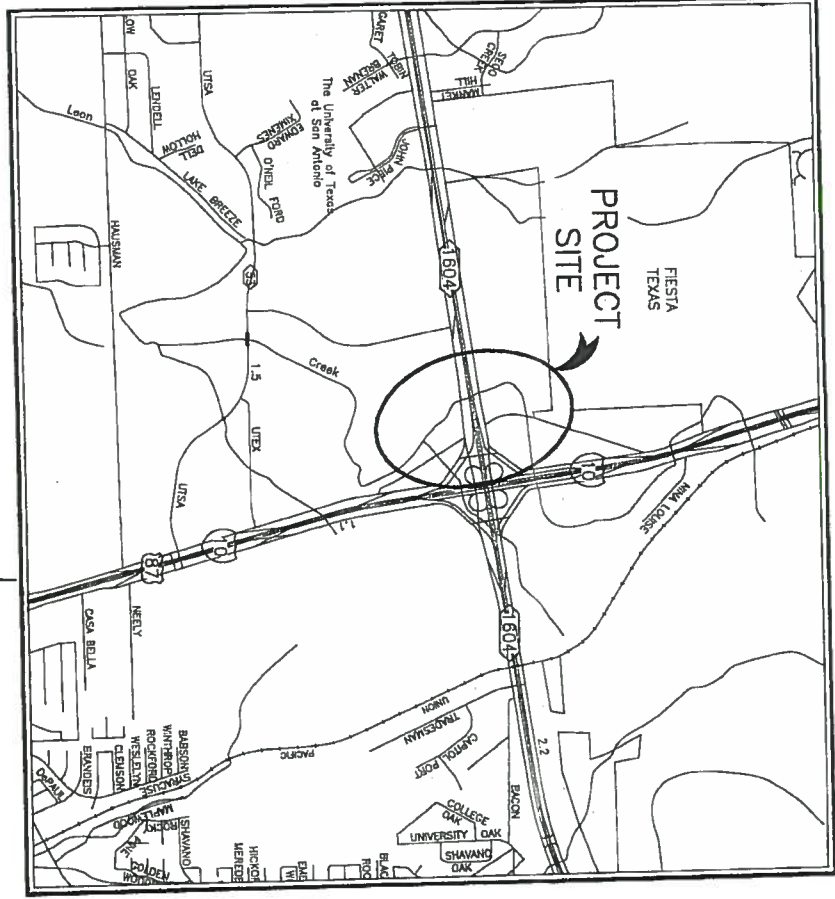
RVK ARCHITECTS (LANDSCAPE ARCH.)
745 E. MULBERRY AVE.
SAN ANTONIO, TX. 78212
210-733-3535

ADAMS ENVIRONMENTAL, INC.
12000 CROWNPOINT DRIVE, SUITE 120
SAN ANTONIO, TX. 78233
210-858-6873

SLAY ENGINEERING CO., INC.
123 ALTGELT
SAN ANTONIO, TX. 78201
210-734-4388



VICINITY MAP
SCALE: 1"=10 MILES



LOCATION MAP
SCALE: 1"=2000'

CITY COUNCIL

MAYOR
IVY R. TAYLOR

- COUNCIL
- DIEGO M. BERNAL.....DISTRICT 1
 - KEITH TONEY.....DISTRICT 2
 - REBECCA J. VIAGRAN...DISTRICT 3
 - REY SAIDANA.....DISTRICT 4
 - SHIRLEY GONZALES.....DISTRICT 5
 - RAY LOPEZ.....DISTRICT 6
 - CRIS MEDINA.....DISTRICT 7
 - RON NIRENBERG.....DISTRICT 8
 - JOE KRIER.....DISTRICT 9
 - MIKE GALLAGHER.....DISTRICT 10

CITY MANAGER
SHERYL SCULLEY

DIRECTOR OF PARKS & REC.
XAVIER D. URRUTIA

SPECIAL PROJECT MANAGER
BRANDON ROSS-(210)207-6101

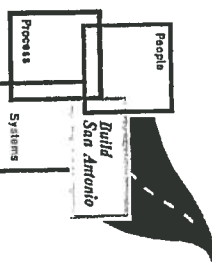
PROJECT MANAGER
AGDEL RIVERA-(210)207-4073

PRELIMINARY REVIEW

NOVEMBER, 2014

EXHIBIT B

TDLR NO.-*****#####



S SLAY ENGINEERING CO., INC.
CIVIL - SURVEYING - CONSULTING
123 ALTGELT AVENUE
SAN ANTONIO, TEXAS 78201
PHONE REGISTRATION NO. F1901
FAX: (210) 734-4401
S.E.C. JOB NO. 13-042

MISSION: TOGETHER, DEDICATED TO OUR COMMUNITY... BUILDING A GREAT SAN ANTONIO



























TELEPHONE: (210) 734-4488

SLAYENGINEERING.COM

PRELIMINARY
NOT FOR CONSTRUCTION
THIS DRAWING DESCRIBES
THE DESIGN CONCEPT AND
THE GENERAL SCOPE OF
THE PROJECT. IT IS NOT A
CONTRACT DOCUMENT.
ROGER C. LAMBERT,
P.E. LICENSE NO. 46111

DATE: 11-07-14
SHEET NO.: C1

LEGEND

-  MULBERRY
-  HUISACHE
-  MESQUITE
-  OAK
-  PERSIMMON
-  HACKBERRY
-  JUNIPER
-  CEDAR ELM
-  REDBUD
-  DEMO TREE
-  BOULDERS
-  SEATING BOULDER
-  BIG ROCKS
-  EXISTING FENCE
-  EDGE OF ASPHALT
-  PROPOSED SIGNS
-  R.O.W.
-  EXISTING CONTOUR
-  PROPOSED CONTOUR
-  EXISTING SPOT ELEVATION
-  PROPOSED SPOT ELEVATION
-  EXISTING SEWER MANHOLE
-  SILT FENCE
-  CONCRETE
-  ASPHALT
-  BRIDGE-OVERHEAD

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PRELIMINARY
 THIS DRAWING INDICATES THE DESIGN CONCEPT AND THE FIELD CONDITIONS. THE FIELD CONDITIONS ARE NOT A GUARANTEE OF THE COMPLETED CONTRACT DOCUMENT.
 ROGER C. LAHREDA,
 P.E. LICENSE NO. 45411

SLAY ENGINEERING CO., INC.
 SURVEYING - CONSULTING
 133 ATGELT AVENUE
 SAN ANTONIO, TEXAS 78201-1802
 TYPE FIRM REGISTRATION NO. F1901
 FAX (210) 734-9201
 SLAYENGINEERING.COM

LEON CREEK GREENWAY NORTH (VALERO TRAILHEAD) b-1-10
 C.O.S.A. PROJECT NO.: 26-00613

INDEX

DATE	11-20-14
SHEET NO.	C2
CHGD. BY	R.C.L.
DSGN. BY	R.C.L.
DRWN. BY	JVA.
DATE	11-20-14
SHEET NO.	C2
CHGD. BY	R.C.L.
DSGN. BY	R.C.L.
DRWN. BY	JVA.

GENERAL NOTES


1. ALL PHASES OF WORK UNDER THIS CONTRACT SHALL BE WITH STRICT ADHERENCE TO THE ACCOMPANYING SPECIFICATIONS AND THE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION" PUBLISHED BY THE CITY OF SAN ANTONIO, TEXAS AND DEPARTMENT OF PUBLIC WORKS. WHERE DIFFERENCES OCCUR BETWEEN THESE TWO DOCUMENTS, THE MORE STRINGENT REQUIREMENT SHALL APPLY. FINAL DECISIONS OR JUDGMENTS ON INTERPRETATION OF THE SPECIFICATIONS AND/OR ON MATTERS NOT SPECIFICALLY COVERED BY THE ABOVE DOCUMENTS SHALL BE MADE BY PARKS PROJECT MANAGER.
2. CONTRACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO BUILDING CODE AND REGULATIONS, AS WELL AS OTHER SAFETY CODES AND INSPECTION PROVISIONS APPLICABLE TO THIS PROJECT.
3. CONTRACTOR SHALL SECURE ALL PERMITS REQUIRED FOR CONSTRUCTION AND SHALL NOTIFY ALL RESPECTIVE GOVERNMENTAL OR UTILITY AGENCIES AFFECTED BY CONSTRUCTION.
4. CONTRACTOR AND/OR CONTRACTORS INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGNER/TECHNICAL SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE (S) WITHIN THE PROJECT WORKAREA IN ORDER TO DEVELOP THE CONTRACTORS PLANS TO IMPLEMENT THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTORS PLANS SHALL PROVIDE FOR ADEQUATE TRENCH SAFETY SYSTEMS THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTORS INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL DEVELOP AND IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.
5. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNERS AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT, EXCEPTING FROM LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
6. NO ADDITIONAL PAYMENT SHALL BE MADE FOR ROCK, SAND, GRAVEL, OR OTHER UNSTABLE CONDITIONS ENCOUNTERED IN ANY WORK IMPLIED BY THESE DRAWINGS.
7. ITEMS OF WORK NOTED "BY OTHERS" OR "N.I.C." (NOT IN CONTRACT) SHALL BE CONSIDERED AS NOT PART OF THIS CONTRACT.
8. CONTRACTOR IS REQUIRED TO VERIFY PROJECT ELEVATIONS. TEMPORARY BENCH MARKS MAY BE MOVED OR DAMAGED DURING CONSTRUCTION; THEREFORE, TWO OR MORE TEMPORARY BENCH MARKS SHALL BE BACKSIGHTED TO VERIFY HEIGHT-OF-INSTRUMENT. THE START OF CONSTRUCTION BY THE CONTRACTOR SIGNIFIES THAT EXISTING SITE CONDITIONS HAVE BEEN VERIFIED AND ACCEPTED. ALL CONSTRUCTION STAKING SHALL BE DONE AT THE CONTRACTORS EXPENSE.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE GRADING ELEVATIONS ACCORDING TO THE FOLLOWING TOLERANCES:

PAD ELEVATIONS	± 0.10FOOT
PAVEMENT	± 0.05FOOT
CURBS, GUTTERS AND ALL DRAINAGE FACILITIES	± 0.02FOOT
LANDSCAPING	± 0.10FOOT
10. SHOULD ANY ABOVE MENTIONED ELEVATION FOUND TO BE OUT OF LEVEL, BEYOND THE STATED TOLERANCE AFTER CONTRACTORS OPERATIONS, THE CONTRACTOR SHALL RETURN AND CORRECT THE GRADING AT NO COST TO THE OWNER. ALL EXCESS MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT THE CONTRACTORS EXPENSE.
10. "MATCH EXISTING" SHALL BE UNDERSTOOD TO SIGNIFY VERTICAL AND HORIZONTAL ALIGNMENT.
11. CONSTRUCTION JOINTS SHALL BE USED IN THE CONCRETE PAVEMENT IN LIEU OF SAWED CONTROL JOINTS AT THE LOCATIONS CHOSEN BY THE CONTRACTOR TO END EACH FOUR.
12. THE SITE DISTURBED DURING CONSTRUCTION SHALL BE COVERED WITH LIVE GRASS BEFORE ACCEPTANCE, UNLESS OTHERWISE DIRECTED BY THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL HAVE THE OPTION OF SEEDING, SODDING OR HYDROMULCHED UNLESS OTHERWISE NOTED, TO ACHIEVE THE END RESULT. ALL AREAS TO BE SEEDS SODDED OR HYDROMULCHED SHALL BE GRADED AND PREPARED WITH TOPSOIL (PER SPECS.), PLACED PRIOR TO SEEDING OR SODDING. GRASS SHALL BE ESTABLISHED FOR THIRTY DAYS BEFORE FINAL ACCEPTANCE.
13. A. STRIPING SHALL BE USED TO INDICATE PARKING SPACES, NO PARKING AREAS, AND CROSSWALKS. PARKING SPACES SHALL BE INDICATED BY FOUR INCH (4") PAINTED WHITE STRIPES, NINE FEET (9') ON CENTER. NO PARKING AREAS SHALL BE NOTED BY 4 INCH WHITE LINES WITH TWENTY-FOUR INCHES (24") SEPARATION, PAINTED DIAGONALLY ACROSS THE AREA. STOP LIMIT LINES SHALL BE 2 FEET WIDE, WHITE STRIPES, PERPENDICULAR TO TRAFFIC LANES.
 B. TREES SHALL BE TRIMMED BY A LICENSED TREE MAINTENANCE CONTRACTOR. BRANCHES SHALL BE TRIMMED UP TO FIFTEEN FEET ABOVE STREET PAVEMENT AND EIGHT FEET ABOVE CONCRETE WALKS.
 C. PRUNING PAINT SHALL BE APPLIED TO FRESH CUTS AND SCARS WITHIN THIRTY MINUTES OF TRIMMING TREE TO SEAL WOUND AND PROTECT TREE.
 E. ALL TREES SHALL BE GUARANTEED FOR GROWTH OR UNCONDITIONAL REPLACEMENT, AS MANY TIMES AS NECESSARY TO ACCOMPLISH GROWTH.
14. A. ALL TREES SHALL BE PRESERVED AND PROTECTED FROM DAMAGE DURING CONSTRUCTION, UNLESS OTHERWISE NOTED ON PLANS.
 B. TREES SHALL BE TRIMMED BY A LICENSED TREE MAINTENANCE CONTRACTOR. BRANCHES SHALL BE TRIMMED UP TO FIFTEEN FEET ABOVE STREET PAVEMENT AND EIGHT FEET ABOVE CONCRETE WALKS.
 C. PRUNING PAINT SHALL BE APPLIED TO FRESH CUTS AND SCARS WITHIN THIRTY MINUTES OF TRIMMING TREE TO SEAL WOUND AND PROTECT TREE.
 E. ALL TREES SHALL BE GUARANTEED FOR GROWTH OR UNCONDITIONAL REPLACEMENT, AS MANY TIMES AS NECESSARY TO ACCOMPLISH GROWTH.
15. CONCRETE CAR STOPS SHALL BE CENTERED 3.5 FEET OFF END OF PARKING SPACE AND PLACED ONE PER SPACE (UNLESS OTHERWISE INDICATED ON PLANS).
16. EXPANSION JOINTS IN CONCRETE CURBS AND WALKS SHALL BE SPACED AT FORTY FEET (40') ON CENTER (MAXIMUM). DUMMAY GROOVE JOINTS SHALL BE PLACED AT TEN FEET (10') ON CENTER IN CURBS AND FIVE FEET (5') ON CENTER IN WALKS.

17. CHANNEL BEDS AND SIDE SLOPES SHALL BE COMPACTED TO A DENSITY NOT LESS THAN 90% DENSITY PER ASTM D-698. ALL SOD CHANNELS SHALL BE COVERED WITH LIVE SOD BEFORE FINAL ACCEPTANCE.
18. ALL DIMENSIONAL TIES TO CURB LINES ARE TO THE FACE OF CURB.
19. DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.161, CITY PUBLIC SERVICE MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.
20. EXISTING ABOVE GROUND UTILITIES HAVE BEEN PLOTTED BY DIRECT FIELD INVESTIGATION, UNDERGROUND UTILITIES HAVE BEEN COMPILED FROM VARIOUS SOURCES AND REQUIRE VERIFICATION BY THE CONTRACTOR TO ESTABLISH THEIR EXACT LOCATION AND DEPTH. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING ABOVE GROUND OR UNDERGROUND UTILITIES, INCLUDING THOSE NOT SHOWN ON DRAWINGS. DEAD UTILITY LINES SHALL BE SUITABLY CAPPED AT THE LIMITS OF THE PROJECT.
21. ANY EXISTING SITE IMPROVEMENT OR UTILITY REMOVED, DAMAGED OR UNDERCUT BY CONTRACTORS OPERATIONS SHALL BE REPAIRED OR REPLACED AS DIRECTED BY THE ENGINEER AND APPROVED BY THE RESPECTIVE UTILITY AT THE CONTRACTORS EXPENSE.
22. PUBLIC UTILITIES REQUIRING RELOCATION OR ADJUSTMENT TO CONFORM TO PROJECT ALIGNMENT OR GRADES SHALL BE THE CONTRACTORS RESPONSIBILITY, BUT COORDINATED WITH THE PROPER UTILITY COMPANY. ADJUSTMENT OF ALL EXISTING MANHOLES THAT REMAIN IN SERVICE, TO PROJECT GRADES SHALL BE THE CONTRACTORS RESPONSIBILITY (UNDER PAY ITEM NUMBER 912 OF THE CITY'S STANDARD SPECIFICATIONS).
23. ALL FILL MATERIAL SHALL BE SUBJECT TO THE ENGINEERS APPROVAL.
24. DRIVEWAYS, WALKS, RETAINING WALLS AND ASPHALT PAVEMENT OR ANY OTHER EXISTING FEATURE SHALL BE DEMOLISHED AND REMOVED WHERE NECESSARY FOR NEW CONSTRUCTION. VERIFY DEMOLITION WITH ENGINEER PRIOR TO BEGINNING DEMOLITION.
25. ALL WASTE MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND IT SHALL BE HIS SOLE RESPONSIBILITY TO DISPOSE OF THIS MATERIAL OFF THE LIMITS OF THE RIGHT-OF-WAY AND TO PRIVATE PROPERTY WHERE THE CONTRACTOR HAS THE CONSENT OF THE OWNERS. NO WASTE MATERIAL SHALL BE PLACED IN EXISTING NATURAL DRAINAGE COURSES.
26. BARRICADES AND WARNING SIGNS SHALL CONFORM TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND GENERALLY BE LOCATED TO AFFORD MAXIMUM PROTECTION TO THE PUBLIC AS WELL AS CONSTRUCTION PERSONNEL AND EQUIPMENT AND TO ASSURE AN EXPEDITIOUS TRAFFIC FLOW AT ALL TIMES DURING CONSTRUCTION. THE SIGNS SHALL BE COORDINATED WITH SEQUENCE OF CONSTRUCTION AND DETOUR PLAN. DURING THE PROGRESS OF THE WORK THE CONTRACTOR SHALL PROVIDE ACCESS FOR LOCAL TRAFFIC.
27. "TxDOT" AND "THD" SHALL SIGNIFY TEXAS DEPARTMENT OF TRANSPORTATION.
28. CONTRACTOR SHALL CONTACT THE TEXAS DEPARTMENT OF TRANSPORTATION AT 815-1110, 48 HOURS PRIOR TO WORKING WITHIN OR ADJACENT TO HIGHWAY R.O.W.
29. CONTRACTOR SHALL CONTACT THE CONSTRUCTION INSPECTION AND MATERIALS TESTING DIVISION, CITY OF SAN ANTONIO, 207-2800, AT LEAST 24 HOURS PRIOR TO BEGINNING WORK FOR WHICH THE INSPECTION IS DESIRED.
30. CONCRETE SHALL BE CLASS "A" ACCORDING TO ITEM 300 OF THE CITY'S STANDARD SPECIFICATIONS WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI UNLESS OTHERWISE SPECIFIED ON PLANS.
31. REINFORCING STEEL SHALL BE FROM NEW BILLET AND SHALL HAVE DEFORMATIONS CONFORMING TO ASTM A-615 AND SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:
 A-615.....GRADE 40.....#3 BARS AND DOWELS
 A-185.....WELDED WIRE FABRIC
 A-615.....GRADE 60.....ALL OTHER REINFORCING
32. ALL DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTER OF BARS.
32. "FLEXIBLE BASE" SHALL BE TYPE A, GRADE 2, ACCORDING TO TxDOT ITEM 247, COMPACTED TO 95% MODIFIED DENSITY ACCORDING TO ASTM D-1557 (MODIFIED PROCTOR) AND TESTED BY ASTM D-2922 (NUCLEAR METHOD). EXISTING BASE MAY BE REUSED IF MATERIAL MEETS SPECIFICATION REQUIREMENTS.
33. "COMPACTED SUBGRADE" SHALL CONSIST OF NATIVE MATERIAL SCARIFIED TO A MINIMUM DEPTH OF SIX INCHES (6") AND COMPACTED TO 90% DENSITY ACCORDING TO ASTM D-698 AND TESTED BY ASTM D-2922 (NUCLEAR METHOD).
34. NO EXTRA PAY SHALL BE ALLOWED FOR WORK CALLED FOR ON THE PLANS BUT NOT INCLUDED ON THE BID PROPOSAL. THIS INCIDENTAL WORK WILL BE REQUIRED AND SHALL BE INCLUDED IN THE PAY ITEM TO WHICH IT RELATES.
35. EXCAVATION BACKFILL, BACKFILL SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED EIGHT (8) INCHES COMPACTED TO AT LEAST 95 PERCENT OF THE MAXIMUM DRY DENSITY AS EVALUATED BY ASTM D 698.
36. CONTRACTOR SHALL CALL FOR UTILITY LOCATES BEFORE BEGINNING ANY EXCAVATION:
 1-800-545-6005 OR 811.
37. ALL CONSTRUCTION STAKING AND BENCHMARK TRANSFERS SHALL BE PAID FOR BY THE CONTRACTOR.
38. GRADING ADJACENT TO NEW CONSTRUCTION IN SOD AREAS SHALL BE REGRADED AT 1% MINIMUM SLOPE AND 25% MAXIMUM SLOPE, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. AREA SHALL BE COMPACTED TO 90% DENSITY PER ASTM D-698.
39. TOPSOIL SHALL BE PLACED AT A MINIMUM THICKNESS OF 4 INCHES ON ALL AREAS AFTER GRADING AND PRIOR TO SEEDING, SODDING, OR HYDROMULCHING.
40. ALL ELEVATIONS ON THIS PROJECT ARE WITH REFERENCE TO THE 800 DATUM PER MEAN SEA LEVEL.

41. EXISTING FEATURES: PAVEMENTS, CURB, WALK, CONCRETE STRUCTURES THAT ARE WITHIN THE NEW CONSTRUCTION LIMITS THAT ARE TO BE REPLACED SHALL BE REMOVED BY THE CONTRACTOR AT NO ADDITIONAL COST. DEMOLITION OF EXISTING FEATURES AS NECESSARY FOR THE CONSTRUCTION OF NEW WORK SHALL NOT BE CONSIDERED AS EXTRA. DEMOLITION WORK AS REQUIRED SHALL BE SUBSIDIARY TO THE NEW CONSTRUCTION WORK.

PRELIMINARY
 NOT FOR CONSTRUCTION
 THIS DRAWING INDICATES THE DESIGN CONCEPT AND THE PROJECT. IT IS NOT A CONTRACT DOCUMENT.
 ROGER C. LAHWEAU,
 P.E. LICENSE NO. 48111

 SLAY ENGINEERING CO., INC. CIVIL - SURVEYING - CONSULTING 122 ALBERT AVENUE SAN ANTONIO, TEXAS 78201-1802 TYPE FIRM REGISTRATION NO. F1801 TEL: (210) 734-4388 FAX: (210) 734-4401 SLAYENGINEERING.COM	CITY OF SAN ANTONIO PARKS AND RECREATION DEPARTMENT LEON CREEK LINEAR TRAIL EXTENSION C.O.S.A. PROJECT NO.: 28-00819
GENERAL NOTES	
SUBMITTAL DSN. BY: JVA DSN. BY: RCL CHKD. BY: RCL	PROJECT NO.: 13042 SHEET NO.: C3

GENERAL NOTES

- N1. Applicable Codes Ordinances for most current edition as required by City of San Antonio.
 - a. 2003 International Building Code
 - b. 2003 International Fire Code
 - c. 2003 Uniform Plumbing Code
 - d. 2003 National Electrical Code
 - e. 2002 National Mechanical Code
 - f. 2000 International Energy Conservation Code
 - g. 2003 International Residential Code
 - h. City of San Antonio Unified Development Code, most current edition and Amendments Texas Civil Statutes) must be followed.
- N2. All provisions of Texas Accessibility Standards (TAS) of the Architectural Barriers Act (Article 9102, Texas Civil Statutes) must be followed.
- N3. Signage: All signage placement and mounting is to comply with all provisions of TAS.
- N4. Slope Criteria.
 - a. Walkway/path cross slope 2% maximum (1% preferred)
 - b. Walkway/path running slope 5% maximum (4.25% preferred)
 - c. Ramp running slope 8.33% maximum
 - d. Ramp running slope 1% maximum
 - e. Curb ramp 8.33% maximum (6.25% preferred)
 - f. Walkway landings of drainage in direction 2% maximum cross slope. (1.5% preferred)
 - g. Ramp landings 2% maximum cross slope/running slope.
- N5. Complete repairs and finish outs are to be done as a result of any relocations, modifications, repairs, construction, demolition, etc.
- N6. Any items, procedures, or any other items that are unclear are to be brought to the attention of Landscape Architect, Owner and Consultant(s) related to that particular item prior to proceeding with work.
- N7. All safety provisions and codes must be followed during demolition and construction of all areas. Provide temporary construction fences where work will occur and maintain through Substantial Completion of Project. Coordinate location with Landscape Architect and Owner.
- N8. All holes or rips must be patched to a flush condition and must match existing adjacent surfaces.
- N9. Any existing surfaces to be repointed must first be prepared by repairing any holes, changing any rotted wood, replacing rusted metal, making any repairs needed, etc.
- N10. Where existing surface mounted items have been removed, all holes and chips must be repaired and patched with like materials of existing surface finish.
- N11. Any items requested by Owner to be salvaged must be salvaged and protected until further direction by Owner, and delivered to a location as may be directed by Owner.
- N12. All surrounding sites and adjacent buildings/structures must be protected and unaffected during construction.
- N13. All areas around construction areas must be safe for pedestrian traffic before, during and after construction. Work sites shall be cleaned daily from all construction trash, debris, materials, etc.
- N14. Any items that create an obstruction of any kind to demolition and construction is to be brought to the attention of Landscape Architect, Owner and Consultant(s) related to this item prior to proceeding with work.
- N15. Any unusual or unexpected items are to be brought to the attention of Landscape Architect, Owner and Consultant(s) related to this item prior to proceeding with work.
- N16. Contractor and Fabricator shall verify all quantities, dimensions, and conditions and notify Landscape Architect of any discrepancies or inconsistencies before proceeding with work. DO NOT scale drawings for dimensions.
- N17. General Contractor shall inspect job for completion before scheduling any observation by Landscape Architect and Consultants.
- N18. Any conflicts between Contract Drawings and Specifications shall be brought to the attention of Landscape Architect. Landscape Architect reserves the right to make appropriate decision without any extra cost to Owner.
- N19. Landscape Architect and Consultant(s) shall not have control of, and shall not be responsible for construction means, methods, techniques, sequences, or procedures for safety precautions and programs in connection with the work, for the acts or omissions of Contractor, Subcontractor(s), or any other persons performing any of the work, or for the failure of any of them to carry out the work in accordance with the contract documents.
- N20. Periodic site observation by field representatives of the Landscape Architect and Consultant(s) is solely for the purpose of determining if the work contract of Contractor is proceeding in accordance with the contract documents. This limited site observation is not intended to be a check of the quality or quantity of the work, but rather periodic in an effort to inform Owner of defects and deficiencies in the work of Contractor.
- N21. Contractor shall be responsible for making himself familiar with all underground utilities, pipes, and structures. Contractor is to trace out and verify location of all existing utilities whether shown or not shown prior to digging. It is the Contractor's responsibility to protect all utilities and request call-out of utility locations by Texas One Call and others as required.
- N22. Construction crew(s) to remain within designated work areas at all times. It is Contractor's responsibility to maintain public safety and welfare within and adjacent to project work areas.
- N23. Do not willingly proceed with construction as designed when it is obvious that unknown obstruction and/or grade differences exist that may not have been known/considered during design. Such conditions shall be immediately brought to the attention of the Landscape Architect. The Contractor shall assume full responsibility for all necessary revisions due to failure to give such notification.
- N24. The Contractor shall be responsible for any coordination with sub contractors as required to accomplish any and all operations.
- N25. Excavated materials or other materials removed from the site (not used on site) shall be tested and properly disposed of in accordance with all local, state and federal regulations. Contractor shall provide a receipt from landfill company upon request.

SPECIAL NOTES

- N26. All disturbed areas shall be revegetated according to contract specifications, including but not limited to grading and seeding.
 - N27. Storage of materials in the floodplain is not permitted.
1. Final trail location shall be field verified and approved by Project Consultant. Consultant reserves the right to make field adjustments to the trail routing. All trail points shall be connected with smooth, flowing radii, as graphically shown on the plans.
 2. All metal to be hot dipped galvanized unless an alternate finish is specifically listed. Complete repairs to galvanized finish per the applicable process per TxDOT Item 445
 3. All landscape rock/boulders shall be approved by Project Consultant prior to installation. Any rock/boulder installed without prior approval shall be removed and replaced as directed by Project Consultant.
 4. Contractor to remove all tree flagging at completion of project.
 5. Remove all debris (household trash, tires, shopping carts, tree limbs, dump sites, etc.) within 50' each side of the trail and dispose debris off site. Ensure that all waste disposal is conducted in full compliance with local state, and federal regulations. Contractor is to submit documentation of compliance to City of San Antonio.
 6. Contractor shall provide signs supplied by a licensed sign company and installed by a licensed sign contractor. Permits for signs shall be obtained from appropriate agencies.
 7. Contractor to use a City Certified Tree Arborist.

TREE PRESERVATION NOTES

1. TREE PRESERVATION: Tree Preservation Requirements shall be accomplished in accordance with section 35-523 of the current Unified Development Code of the City of San Antonio, Texas.
2. Tree survey information is based on site information provided by COSA Parks & Recreation Department.
3. All conditions necessitating the removal or pruning of a tree shall be reviewed by Landscape Architect. Locations of any improvements with the potential of impacting trees shall be staked/delineated prior to the field review. Contractor will be required to make reasonable adjustments in layout of elements (including curbs, paving and walks) per approval of Owner.
4. All woody material to be removed shall be chipped into mulch. Subsequent mulch material may be placed on site within areas disturbed along utility corridors, and on site within RPZ's of trees adjacent to construction & natural areas. Material not used on site is to be removed and properly disposed of by Contractor.
5. Significant & heritage trees shall be removed only under the following situations only with prior approval of Landscape Architect & Owner:
 - A. Cut/fill greater than three (3") inches to take place beneath the drip line of a tree exceeds 50% of the root protection zone (RPZ).
 - B. Construction of a building or other improvements require the removal of more than 30% of the viable portion of a tree crown.
 - C. Poor condition of tree.
6. Barricade fencing shall be placed to protect RPZ of all trees to remain unless otherwise approved by Landscape Architect to provide access to work. In these instances the minimum distance for barricade fencing from trunk shall be equal to 50% minimum of RPZ. Minimum distance barricade to be erected is 5'-0" from trunk of tree or clump of trees for trees 10" caliper or less. Refer to tree preservation related details for tree barricade fencing and root protection zone work restrictions.
7. Construction envelope of site improvements shall be limit of area within selective cleared area which can be completely disturbed by construction. Any significant or heritage trees encountered are to be reviewed on an individual basis to determine modification to location of pathway/trail/improvements. Routing of utilities to be confirmed with Landscape Architect and Owner; make adjustments as directed at no additional cost to contract.

PLANTING NOTES:

1. Contractor shall be responsible for making himself familiar with all underground utilities, pipes and structures.
2. Do not willingly proceed with construction as designed when it is obvious that unknown obstruction and/or grade differences exist that may not have been known during design. Such conditions shall be immediately brought to the attention of the Landscape Architect. The Contractor shall assume full responsibility for all necessary revisions due to failure to give such notification.
3. The Contractor shall be responsible for any coordination with subcontractors as required to accomplish planting operations.
4. If conflicts arise between size of areas and plans, Contractor is to contact Landscape Architect for resolution. Failure to make such conflicts known will result in Contractor's liability to relocate the materials.
5. TOPSOIL: Fertile agricultural sandy loam free of all roots, rocks and debris over 1/2" in diameter/size. If acceptable to Landscape Architect, topsoil stripped from site may be used after removal of all vegetative matter from the top 4". Prior to placement of topsoil stripped from site, screen topsoil to remove all rocks and miscellaneous debris larger than 1/2" diameter.

6. TOPSOIL PLACEMENT: Place topsoil in turf areas to 6" depth minimum; within planting beds at 12" minimum. Prior to placement, cultivate subgrade to depth of 6" to alleviate compaction. Finish grade of topsoil to be 1" below paving/top of curb. Spray all existing grass/vegetation in planting/turf areas with Roundup to provide complete kill and removal prior to placement of topsoil.

SOIL PREPARATION:

7. SOIL PREPARATION:
 - Turf Areas: Prior to placing turf, rake surface to remove all rocks and misc. debris 1/2" diameter and larger. Roll surface to provide even/smooth surface to satisfaction of Landscape Architect.
 - Planting Beds: Till 4" of organic weed free compost to provide planting mix to 12" depth. Rake surface to provide even/smooth finish grade to satisfaction of Landscape Architect.
8. HYDROMULCH SEEDING BERMUDAGRASS: Apply slurry to areas indicated and areas disturbed by construction operations. Slurry to consist of:
 - 45#s/1000 sf virgin wood fiber mulch; Silva Fiber by Weyerhaeuser or equal.
 - 20#s/1000 sf 13-13-13 water soluble fertilizer.
 - 2#s PLS/1000 sf hulled common bermudagrass.
 Contractor responsible to provide 100% coverage and establishment of turf areas. Following 30 days after establishment, apply Premium Plant Care Fertilizer by Agriflor to provide 1#/1000 sf nitrogen; water in after placement to dissolve fertilizer.
9. Spray all existing grass/vegetation in turf areas with Roundup to provide complete kill and removal prior to seeding operations.

PLANTING:

9. PLANTING: Plant material shall be located as indicated on plan; triangular spaced unless indicated otherwise. Spray all existing grass/vegetation in planting areas with Roundup to provide complete kill and removal prior to planting operations. Prior to placement of weed barrier fabric and mulch, apply pre-emergent herbicides per manufacturer's recommendations over entire mulched area.
10. STEEL EDGING: Place 1/8" x 4" green steel edging separating planting beds from turf areas.
11. PLANT FERTILIZER: Fertilize all plant material with Agriform 21 gram tablets (20-10--5) by Sierra Chemical Co. at rate of 3- tablets per 5 gallon size plant and B- tablets per tree.
12. DG MULCH: Install 4" of decomposed granite as mulch placed over weed barrier fabric over all planting or where indicated.
13. WOOD MULCH: Install shredded hardwood mulch, at minimum depth of 4" over weed barrier fabric overall planting beds or where indicated on plan.
14. MAINTENANCE: Begin maintenance immediately after planting operations and continue to final acceptance of project.
15. MAINTENANCE: Maintain plant material by pruning removal of dead wood, watering and weeding. Restore planting sources at trees in turf areas. Tighten and repair stake and guy supports and reset trees to proper grades or vertical position as required. Spray as required to keep plant materials free of insects and disease.
16. Maintain turf by watering, fertilizing, weeding, mowing, trimming and other operations such as regrading and reprofiling as required to establish a smooth, acceptable lawn, free of eroded or bare areas. Mowing shall be accomplished to maintain grass height of 1 3/8" - 1 1/2". Mowing shall not remove more than 1/3 height of the grass of each mowing.

WARRANTY:

15. WARRANTY: Guarantee at end of 30 days following final acceptance, all turf areas have established turf; uniform color and quality and reasonably free from visible imperfections. Deficiencies noted after 30 day period are to be corrected.
16. Trees and Shrubs: Warranty for a period of one (1) year following date of final acceptance to be alive and of satisfactory growth. Plants damaged or killed as a result of hail, winds over 75 miles per hour, lightning, fire, winter kill caused by extreme cold and severe winter conditions not typical of the locale, theft, vandalism, occupancy of the building, or Owner neglect of the locale, theft, vandalism, occupancy of the building, or Owner neglect of proper maintenance are not covered by the warranty.

CONSTRUCTION STAGING AREA:

The construction staging area for this project will be determined after the project has been awarded. The location of the staging area will be coordinated between Contractor and Owner's Representative. Contractor will insure protection for all trees and significant landscaping which fall within the selected boundaries of the staging area by barricading the areas beneath all existing tree canopies and landscaping. Refer to tree preservation details for Root Protection Zone, Tree Barricade Fencing and Tree Armor. There will be no building materials or equipment placed, or stored, within the above mentioned barricaded areas.

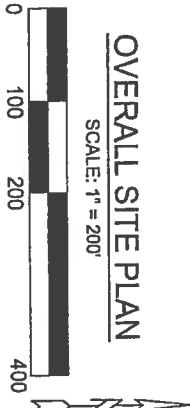
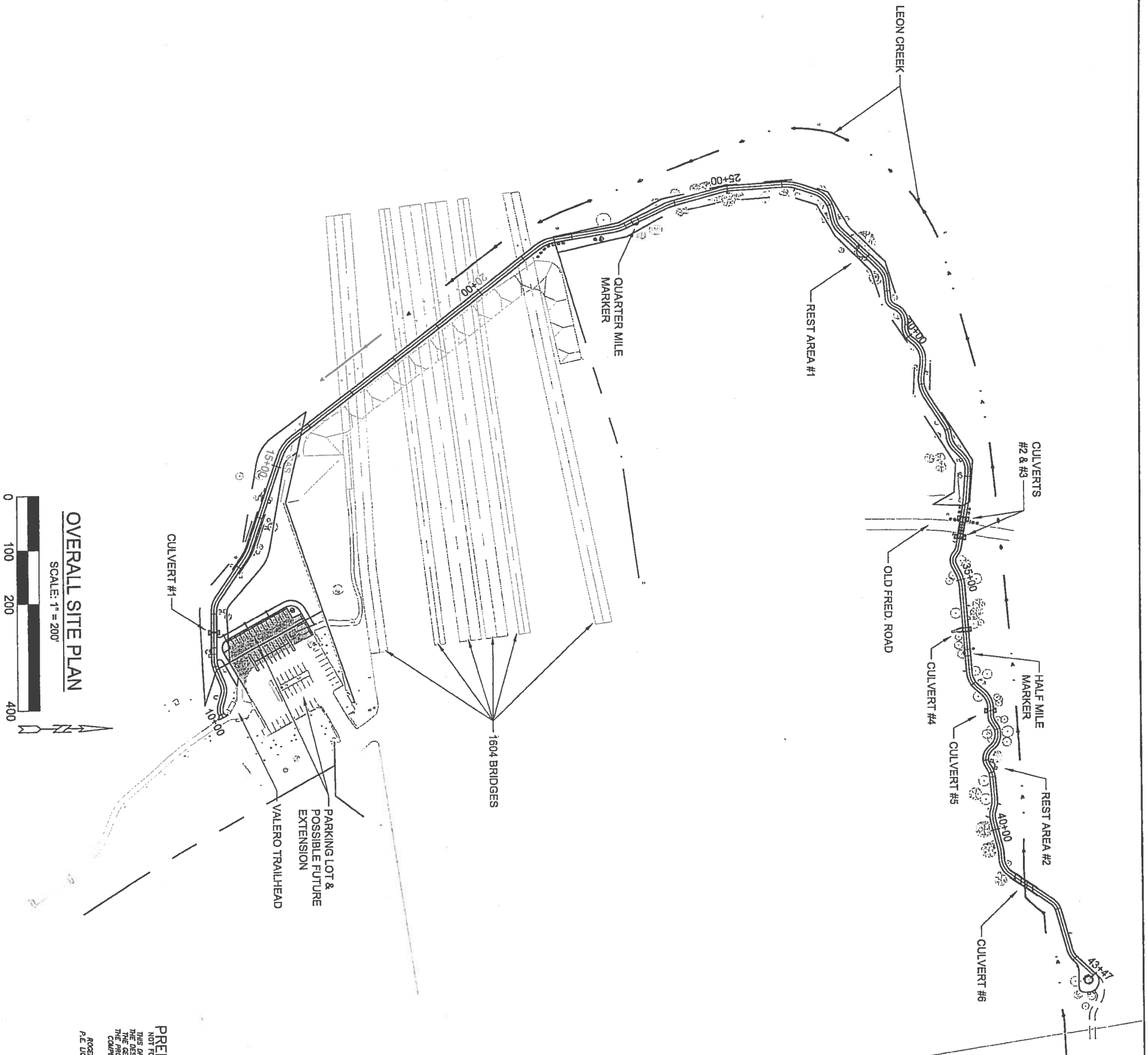
PRELIMINARY
 THIS DRAWING INDICATES THE GENERAL SCOPE OF THE PROJECT. IT IS NOT A CONTRACT DOCUMENT.
 ROSEN C. LAWRENCE
 P.E. LICENSE NO. 48411

SLAY ENGINEERING CO., INC.
 CIVIL SURVEYING & CONSULTING
 123 ALBERT WEALE
 SAN ANTONIO, TEXAS 78201-1002
 TEL: 210.734.4388 FAX: 210.734.4401
 TBE FIRM REGISTRATION NO. F1901
 SLAYENGINEERING.COM

CITY OF SAN ANTONIO
 PARKS AND RECREATION DEPARTMENT
 LEON CREEK LINERS TRAIL EXTENSION
 C.O.S.A. PROJECT NO. 25-00613

CITY GENERAL NOTES

SUBMITTAL	SLAY PROJECT NO. 13-042	DATE	11-07-14
DRWN. BY: JVA	DGN. BY: R.C.L.	CHKD. BY: R.C.L.	SHEET NO.: C4



OVERALL SITE PLAN

PRELIMINARY
 THIS DRAWING INDICATES
 NOT FOR CONSTRUCTION
 THE DESIGN CONCEPT AND
 THE GENERAL LAYOUT OF A
 TRAIL. THE PROJECT IS NOT A
 COMPLETED CONTRACT
 DOCUMENT.
 ROGER C. LAWRENCE,
 P.E. LICENSE NO. 46411

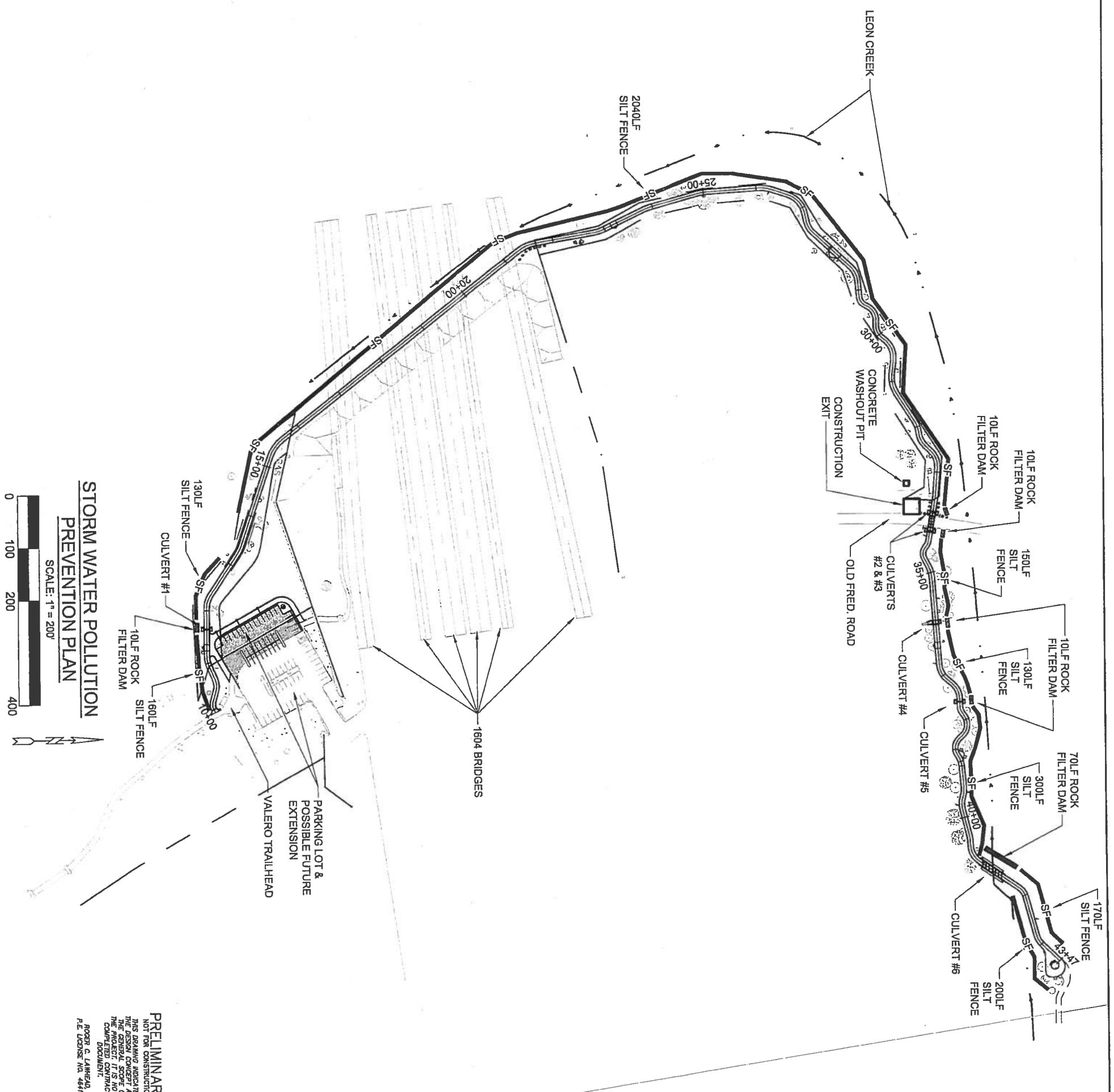
I-10
 HIGHWAY

SLAY ENGINEERING CO., INC.
 CIVIL SUPERVISING ENGINEER
 12345 GLENVIEW AVE. SUITE 100
 SAN ANTONIO, TEXAS 78201-1802
 TYPE PERM REGISTRATION NO. F1981
 FAX: (210) 734-6601
 SLAYENGINEERING.COM

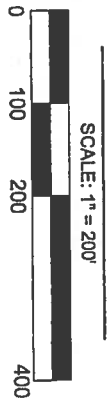
CITY OF SAN ANTONIO
 PARKS AND RECREATION DEPARTMENT
 LEON CREEK LINEAR TRAIL EXTENSION
 C.O.S.A. PROJECT NO.: 28-00613

OVERALL SITE PLAN

DATE:	11-07-14
SHEET NO.:	C5
CHKD BY:	R.C.L.
DRGN BY:	J.V.A.
DATE:	11-07-14
SHEET NO.:	C5
CHKD BY:	R.C.L.
DRGN BY:	J.V.A.
DATE:	11-07-14
SHEET NO.:	C5



STORM WATER POLLUTION PREVENTION PLAN



PRELIMINARY
 THIS DRAWING INDICATES NOT FOR CONSTRUCTION
 THE DESIGNER ASSUMES THE DESIGNER'S SCOPE OF THE PROJECT. IT IS NOT A COMPLETED CONTRACT DOCUMENT.
 ROBERT C. LAMKHEAD
 P.E. LICENSE NO. 44811

<p>SLAY ENGINEERING CO., INC. SURVEYING & CONSULTING CIVIL 135 ALBERT AMARIE SAN ANTONIO, TEXAS 78201-1802 7896 FRM REGISTRATION NO. F1901 FAX: (210) 734-8401 SLAYENGINEERING.COM</p>	
<p>LEON CREEK GREENWAY NORTH (VALERO TRAILHEAD to I-10) C.O.S.A. PROJECT NO.: 28-00813</p>	
<p>SW3P</p>	
<p>DATE: 11-20-14</p>	<p>SUBMITTAL</p>
<p>DRWN. BY: JVA</p>	<p>DESIGN BY: RCL</p>
<p>DATE: 11-20-14</p>	<p>SHEET NO.: C10</p>

SITE DESCRIPTION

PROJECT NAME AND LOCATION: Leon Creek Linear Trail Extension Valero-Trailhead to IH 10 West ROW line.
 CONTACT AND PHONE NO: City of San Antonio Parks & Recreation Department
 210-207-8480

PROJECT DESCRIPTION: Extend trail from Valero Trailhead to IH 10 West ROW line.

MAJOR SOIL DISTURBING ACTIVITIES: Site grading for trail, drainage crossings, and Leon Creek Crossing.

TOTAL PROJECT AREA (ACRES): 2.4 acres

TOTAL AREA TO BE DISTURBED: 2.4 acres

WEIGHTED RUNOFF COEFFICIENT (AFTER CONSTRUCTION): 0.68

EXISTING CONDITION OF SOIL VEGETATIVE COVER: Undeveloped area with 85% grass and tree cover with soil rock outcroppings.

DESCRIPTION OF WATER DISCHARGED NOT ASSOCIATED WITH CONSTRUCTION: NONE

NAME OF RECEIVING WATERS: Leon Creek

IDENTIFY STORMWATER DISCHARGE POINTS: Runoff will sheet flow across trail with concentrated flows at natural lows continuing through culverts under trail to follow natural flow.
 A DESCRIPTION AND TIME FRAME FOR INSTALLATION OF STABILIZATION PRACTICES IN CONJUNCTION WITH CONSTRUCTION: Disturbed areas shall be seeded or hydro-mulched following completion of improvements.

EROSION AND SEDIMENTATION CONTROLS

SOIL STABILIZATION PRACTICES:

- HYDROMULCHING
- TEMPORARY SEEDING
- PERMANENT PLANTING, SOILING OR SEEDING
- MULCHING
- SOIL RETENTION BLANKET
- BUFFER ZONES
- PRESERVATION OF NATURAL RESOURCES

OTHER:

DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITY HAS CEASED TEMPORARILY OR PERMANENTLY SHALL BE STABILIZED WITHIN 14 DAYS UNLESS ACTIVITIES ARE SCHEDULED TO RESUME AND DONE WITHIN 21 DAYS

STRUCTURAL PRACTICES:

- SILT FENCES
- JAW BAILS
- GRAVEL FILTERATION BASIN
- ROCK BERRIES
- DIVERSION, INTERCEPTION OR PERIMETER DIKES
- DIVERSION DIKE AND SWALE COMBINATIONS
- PAVED FLUMES
- ROCK BEDDING AT CONSTRUCTION EXIT (STABILIZED ENTRANCE)
- TRIGGER MATTING AT CONSTRUCTION EXIT (STABILIZED ENTRANCE)
- CHAINED TYERS
- SEDIMENT TRAPS
- SEDIMENT BASINS
- STORM INLET SEDIMENT TRAP
- STONE OUTLET SEDIMENT STRUCTURES
- CURBS AND GUTTERS
- STORM SEWERS
- VELOCITY CONTROL STRUCTURES
- GEOTEXTILES

OTHER:

NARRATIVE - SEQUENCE OF CONSTRUCTION (STORMWATER MANAGEMENT ACTIVITIES):
 THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:
 1. Berms shall be installed.
 2. Trail route shall be graded.
 3. Concrete trail shall be constructed.
 4. Permanent seeding/hydr mulching.

A DESCRIPTION OF MAINTENANCE PROCEDURES FOR CONTROL MEASURES USED: Controls shall be placed prior to excavation and grading. Controls will be monitored weekly and after rainfall, then repaired within 24 hours.

STORMWATER MANAGEMENT: Stormwater drainage shall follow the natural runoff routes to Leon Creek.

A DESCRIPTION OF PERMANENT STORM WATER MANAGEMENT CONTROLS: Trail edges shall be backfilled. Swales will be grass covered.

OTHER EROSION AND SEDIMENTATION CONTROLS

MAINTENANCE:
 ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A PERMANENT EROSION OR SEDIMENT CONTROL MEASURE IS FOUND TO BE DEFICIENT, THE CONTRACTOR SHALL REPAIR OR REPLACE THE MEASURE AS SOON AS POSSIBLE. THE CONTRACTOR SHALL ADVANCE TO PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT. THE AREAS ADJACENT TO CREEKS AND DRAINAGES SHALL HAVE PROMPTLY FOLLOWED BY DEVICES PROTECTING STORM SEWER INLETS.

INSPECTION:
 AN INSPECTION WILL BE PERFORMED BY THE CONTRACTOR EVERY 14 DAYS AS WELL AS AFTER EVERY 1/2" OR MORE OF RAIN. RECORDING ON A NON-FREEZING RAIN GAUGE TO BE LOCATED AT THE PROJECT SITE. AN INSPECTION AND MAINTENANCE REPORT WILL BE MADE PER INSPECTION, BASED ON THE INSPECTION RESULTS. THE CONTROLS SHALL BE CORRECTED BEFORE THE NEXT SCHEDULED INSPECTION.

WASTE MATERIALS:

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LOCKED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL STATE AND LOCAL CITY SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED AS NECESSARY OR AS REQUIRED BY LOCAL REGULATIONS AND THE TRASH WILL BE Hauled TO A LOCAL DUMP. NO CONSTRUCTION MATERIALS WILL BE DUMPED ON SITE.

HAZARDOUS WASTE (INCLUDING SPILL REPORTING):
 AT A MINIMUM ANY PRODUCTS IN THE FOLLOWING CATEGORIES ARE CONSIDERED TO BE HAZARDOUS: PAINTS, ACIDS FOR CLEANING MASONRY SURFACES, GASOLINE, MOTOR OIL, CLEANING SOLVENTS, ASPHALT PRODUCTS, CHEMICAL ADHESIVES FOR SOIL STABILIZATION OR CONCRETE CURING COMPOUNDS AND ADHESIVES. IN THE EVENT OF A SPILL WHICH MAY BE HAZARDOUS AND MEETS REPORTING REQUIREMENTS, THE CONTRACTOR SHALL IMMEDIATELY REPORT THE SPILL TO THE APPROPRIATE CITY INSPECTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANUP OF THE SPILL. IN THE EVENT OF A SPILL WHICH DOES NOT MEET REPORTING REQUIREMENTS, THE CONTRACTOR SHALL REPORT THE SPILL TO THE APPROPRIATE CITY INSPECTOR.

SANITARY WASTE: All sanitary sewer waste will be collected from the portable units as necessary or as required by local regulations by a licensed sanitary waste management contractor.

OFFSITE EROSION SOURCE LOCATION _____

OFFSITE FILL SOURCE LOCATION _____

OFFSITE VEHICLE TRACKING _____

- HAIL ROADS DAMAGED FOR DUST CONTROL
- LOADED HAIL TRUCKS TO BE COVERED WITH TARP/PLUM
- EXCESS DIRT ON ROAD TO BE REMOVED DAILY
- STABILIZED CONSTRUCTION ENTRANCE/EXIT.

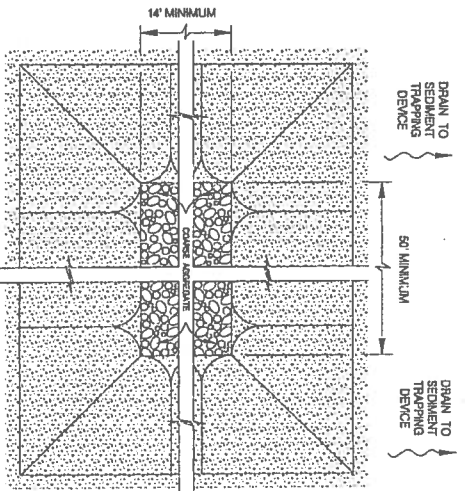
OTHER:
 CERTIFICATION THAT SITE DISTURBANCE AND /OR DISCHARGES WILL NOT EFFECT UNITED ENDANGERED SPECIES AND THE METHODS USED TO SATISFY THE ENDANGERED SPECIES REQUIREMENTS? _____

REMARKS:
 DISPOSAL AREAS STOCKPILES AND HAIL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNT OF SEDIMENT THAT ENTERS RECEIVING WATERS. DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY WETLAND BODY OF WATER STRAIGHTED OR FLOODPLAIN CONSTRUCTION SHALL BE MAINTAINED AND VEGETATION MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR AS SOON AS POSSIBLE OF TEMPORARY THE RUNOFF TEMPORARY BERMS, MATTING, FALSEWORK, PLUG DEBRIS OR OTHER OBSTRUCTION PLACED DURING CONSTRUCTION OPERATIONS THAT ARE NOT PART OF THE FINISHED WORK.

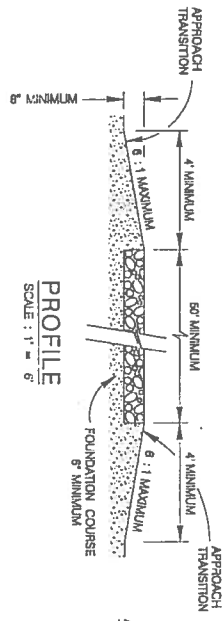


JANUARY 2005
 CITY OF SAN ANTONIO

STORM WATER POLLUTION PREVENTION PLAN (SWP3) NARRATIVE



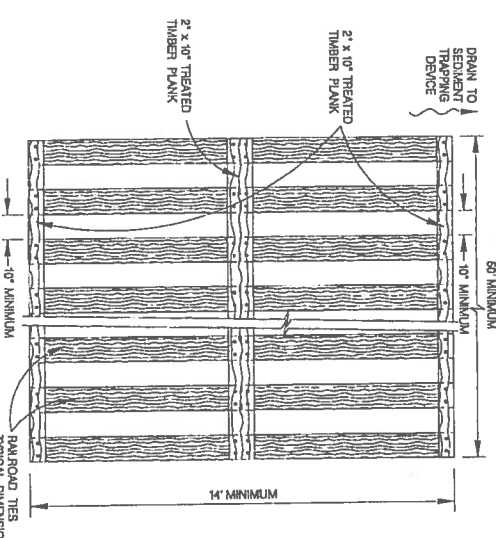
PLAN
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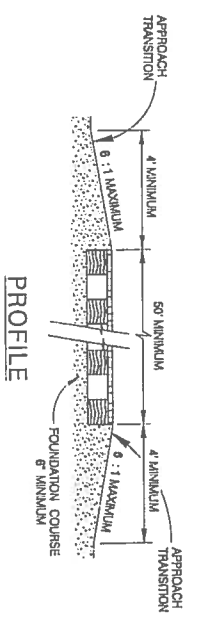
PROFILE
SCALE: 1" = 5'

- GENERAL NOTES
1. THE LENGTH OF THE TYPE 1 CONSTRUCTION EXT SHALL BE AS INDICATED ON THE PLANS, BUT NOT LESS THAN 50'.
 2. THE COURSE AGGREGATE SHOULD BE OPEN GRADED WITH A SIZE OF # 10'S.
 3. THE APPROACH TRANSITIONS SHOULD BE NO STEEPER THAN 6:1 AND CONSTRUCTED AS DIRECTED BY THE ENGINEER.
 4. THE CONSTRUCTION EXT FOUNDATION COURSE SHALL BE FLEXIBLE BASE BITUMINOUS CONCRETE PORTLAND CEMENT CONCRETE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER.
 5. THE CONSTRUCTION EXT SHALL BE GRADED TO ALLOW DRAINAGE TO A SEDIMENT TRAPPING DEVICE.
 6. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

CONSTRUCTION EXT - TYPE 1



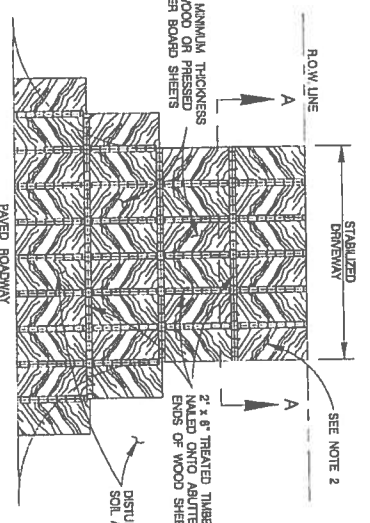
PLAN
SCALE: 1" = 5'



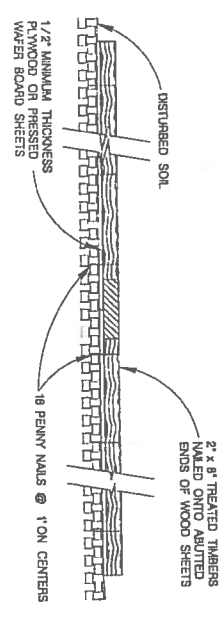
PROFILE
SCALE: 1" = 5'

- GENERAL NOTES
1. THE LENGTH OF THE TYPE 2 CONSTRUCTION EXT SHALL BE AS INDICATED ON THE PLANS, BUT NOT LESS THAN 50'.
 2. THE TREATED TIMBER PLANKS SHALL BE ATTACHED TO THE RAILROAD TIES WITH 1/2" X 8" MIN. LAG BOLTS. OTHER FASTENERS MAY BE USED AS APPROVED BY THE ENGINEER.
 3. THE TREATED TIMBER PLANKS SHALL BE #2 GRADE MIN. AND SHOULD BE FREE FROM LARGE AND LOOSE KNOTS.
 4. THE APPROACH TRANSITIONS SHOULD BE NO STEEPER THAN 6:1 AND CONSTRUCTED AS DIRECTED BY THE ENGINEER.
 5. THE CONSTRUCTION EXT FOUNDATION COURSE SHALL BE FLEXIBLE BASE BITUMINOUS CONCRETE PORTLAND CEMENT CONCRETE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER.
 6. THE CONSTRUCTION EXT SHOULD BE GRADED TO ALLOW DRAINAGE TO A SEDIMENT TRAPPING DEVICE.
 7. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

CONSTRUCTION EXT - TYPE 2



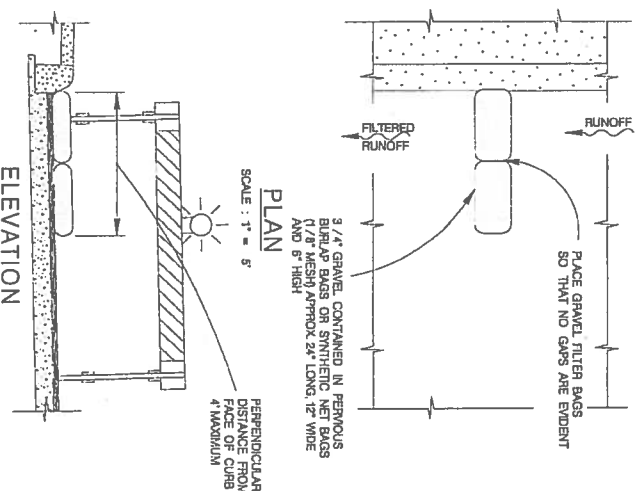
PLAN
SCALE: 1" = 20'



SECTION A-A
SCALE: 1" = 2'

- GENERAL NOTES
1. THE LENGTH OF THE TYPE 3 CONSTRUCTION EXT SHALL BE AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
 2. THE TYPE 3 CONSTRUCTION EXT MAY BE CONSTRUCTED FROM OPEN GRADED CRUSHED LIME STONE WITH A SIZE OF 2 TO 4 INCHES SPREAD A MINIMUM OF 4 INCHES THICK TO THE LIMITS SHOWN ON THE PLANS.
 3. THE TREATED TIMBER PLANKS SHALL BE #2 GRADE MIN. AND SHOULD BE FREE FROM LARGE AND LOOSE KNOTS.
 4. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

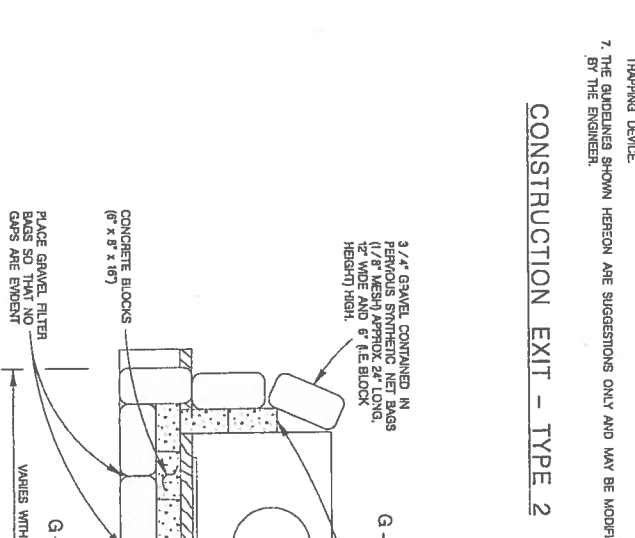
CONSTRUCTION EXT - TYPE 3



ELEVATION
SCALE: 1" = 5'

GRAVEL FILTER BAGS

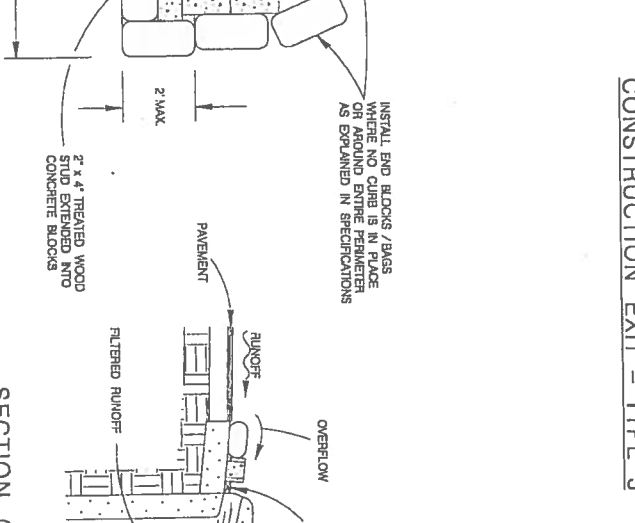
NOTE: STRAPLE GRAVEL FILTER BAGS WITH TYPE 1 BARRICADES MOUNTED WITH TYPE 2 FLASHING WASHING LIGHT. SEE BARRICADE CONSTRUCTION SIGN DETAILS. PLACE FLASHING LIGHTS AWAY FROM GUTTER FLUSH WITH OUTSIDE EDGE OF BAG COMPARTMENT.



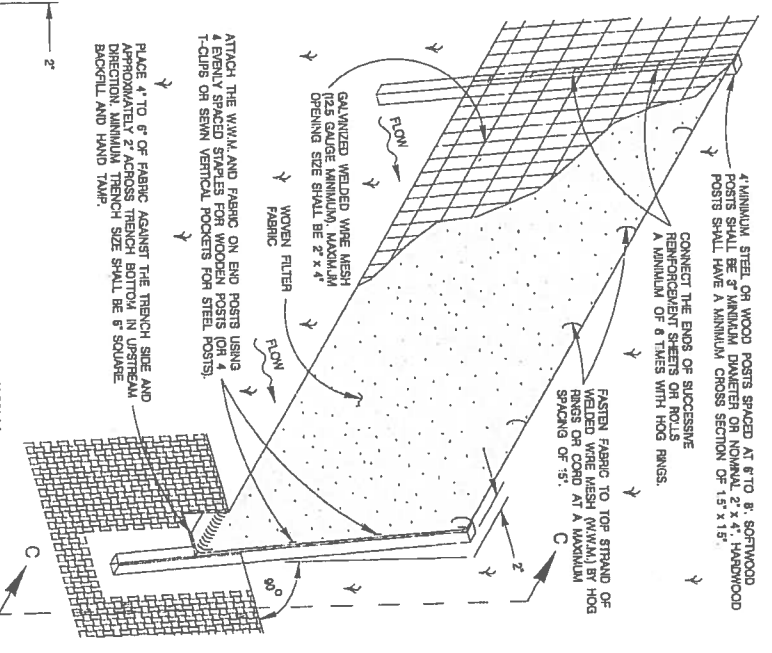
PLAN
SCALE: 1" = 5'

CURB INLET GRAVEL FILTER

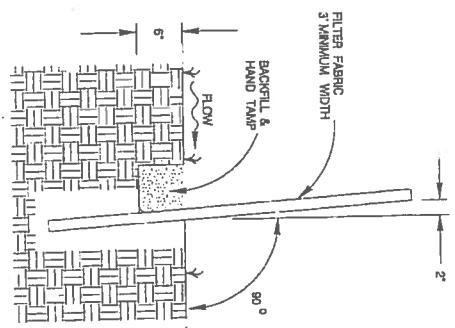
NOTE: GRAVEL FILTER BAGS CAN BE USED ON PAVEMENT OR BARE GROUND.



SECTION G-G
SCALE: 1" = 6'



ISOMETRIC VIEW
SCALE: 1" = 2'



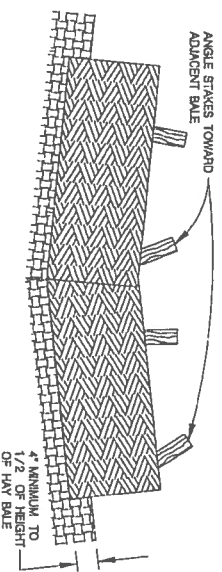
SECTION C-C
SCALE: 1" = 2'

- SEDIMENT CONTROL FENCE USAGE GUIDELINES
- A SEDIMENT CONTROL FENCE MAY BE CONSTRUCTED NEAR THE DOWNSTREAM PERIMETER OF A DISTURBED AREA ALONG A CONTOUR TO INTERCEPT SEDIMENT FROM OVERLAND RUN-OFF. A 2 YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE TO BE FILTERED.
- SEDIMENT CONTROL FENCE SHOULD BE SIZED TO FILTER A MAXIMUM FLOW THRU RATE OF 100 GPM / FT SQUARED. SEDIMENT CONTROL FENCE IS NOT RECOMMENDED TO CONTROL EROSION FROM A DRAINAGE AREA LARGER THAN 2 ACRES.
- GENERAL NOTES
1. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

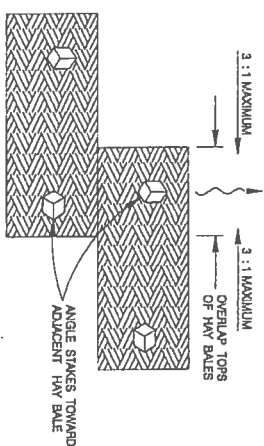
TEMPORARY SEDIMENT CONTROL FENCE

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CITY OF SAN ANTONIO

TEMPORARY EROSION, SEDIMENT & WATER POLLUTION CONTROL MEASURES STANDARDS 1



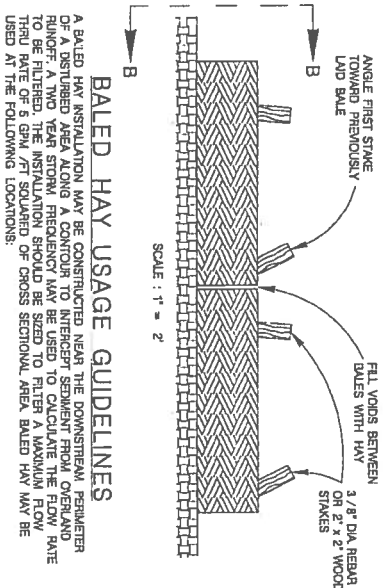
PROFILE VIEW
SCALE: 1" = 2'



PLAN VIEW
SCALE: 1" = 2'



SECTION B-B
SCALE: 1" = 2'



BALED HAY USAGE GUIDELINES

A BALED HAY INSTALLATION MAY BE CONSTRUCTED NEAR THE DOWNSTREAM PERIMETER OF A DISTURBED AREA ALONG A CONTOUR TO INTERCEPT SEDIMENT FROM OVERLAND RUNOFF. A TWO YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE TO BE FILTERED. THE INSTALLATION SHOULD BE SIZED TO FILTER A MAXIMUM FLOW RATE OF 5 GPM / FT SLOPED OF CROSS SECTIONAL AREA BALED HAY MAY BE USED AT THE FOLLOWING LOCATIONS:

1. WHERE THE RUNOFF APPROXIMATING THE BALED HAY FLOWS OVER DISTURBED SOIL FOR LESS THAN 100'. IF THE SLOPE OF THE DISTURBED SOIL EXCEEDS 10%, THE LENGTH OF SLOPE UPSTREAM OF THE BALED HAY SHOULD BE LESS THAN 60'.
2. WHERE THE INSTALLATION WILL BE REQUIRED FOR LESS THAN 3 MONTHS.
3. WHERE THE CONTRIBUTING DRAINAGE AREA IS LESS THAN 1/2 ACRE.

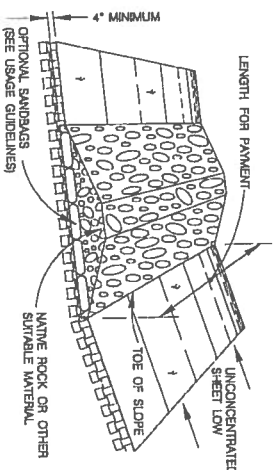
FOR BALED HAY INSTALLATIONS IN SMALL DITCHES, THE FOLLOWING ADDITIONAL CONSIDERATIONS APPLY:

1. THE DITCH SPORES SHOULD BE GRADED AS FLAT AS POSSIBLE TO MAXIMIZE THE DRAINAGE FLOW RATE THRU THE HAY.
2. THE DITCH SHOULD BE GRADED LARGE ENOUGH TO CONTAIN THE OVERLAPPING DRAINAGE WHEN SEDIMENT HAS FILLED TO THE TOP OF THE BALED HAY.
3. BALES SHOULD BE REPLACED USUALLY EVERY 2 MONTHS OR MORE OFTEN DURING WET WEATHER WHEN LOSS OF STRUCTURAL INTEGRITY IS ACCELERATED.

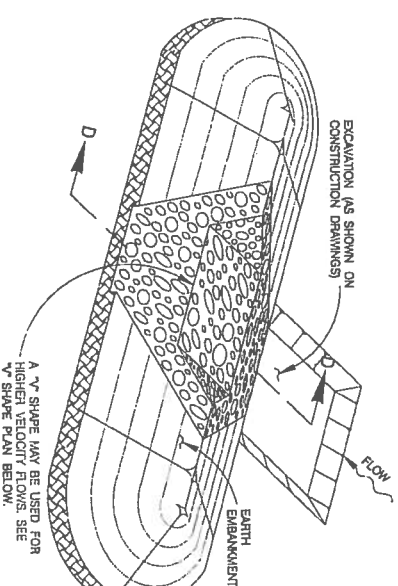
GENERAL NOTES

1. HAY BALES SHALL BE A MINIMUM OF 30" IN LENGTH AND WEIGH A MINIMUM OF 50 LBS.
2. HAY BALES SHALL BE BOUND BY EITHER WIRE OR NYLON OR POLYPROPYLENE STRIPS.
3. THE BALES SHALL BE COMPOSED ENTIRELY OF VEGETABLE MATTER.
4. HAY BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ADJUTING THE ADJACENT BALES. THE BALES SHALL BE PLACED WITH BINDINGS PARALLEL TO THE GROUND.
5. WOOD STAKES DRIVEN THROUGH THE BALES, THE FIRST STAKE SHOULD BE ANGLED TOWARDS THE PREVIOUSLY LAYED BALE TO FORCE THE BALES TOGETHER.
6. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

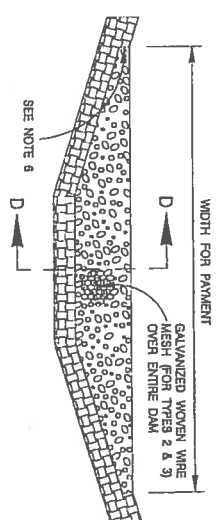
BALED HAY FOR EROSION CONTROL



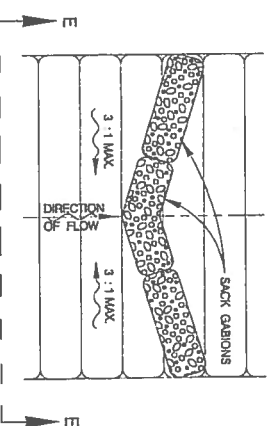
TYPE 1 FILTER DAM AT TOE OF SLOPE
SCALE: 1" = 10'



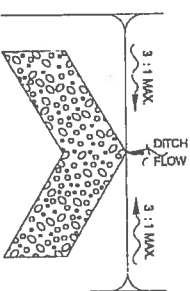
TYPE 1 & 2 FILTER DAM AT SEDIMENT TRAP
SCALE: 1" = 10'



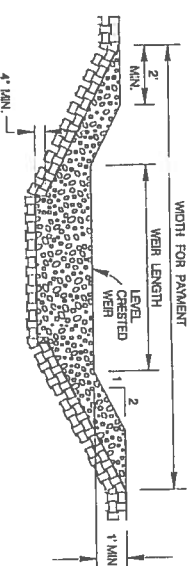
TYPE 1, 2 & 3 FILTER DAM AT CHANNEL SECTIONS
SCALE: 1" = 6'



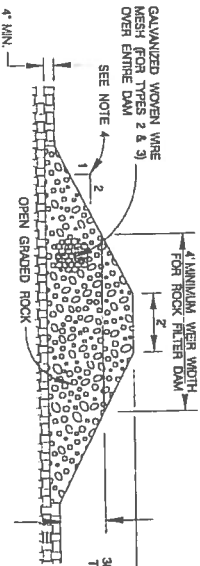
PLAN VIEW
SCALE: 1" = 10'



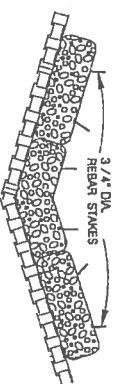
"V" SHAPE PLAN VIEW
NOT TO SCALE



PROFILE OF TYPE 1 & 2 FILTER DAM AT SEDIMENT TRAP
SCALE: 1" = 6'

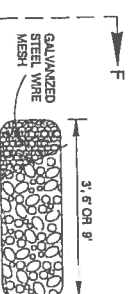


SECTION D-D
SCALE: 1" = 6'



SECTION E-E
SCALE: 1" = 10'

TYPE 4 FILTER DAM AT DITCHES & SMALLER CHANNELS PLAN VIEW



SECTION F-F
SCALE: 1" = 6'

ROCK FILTER DAMS

ROCK FILTER DAM USAGE GUIDELINES

ROCK FILTER DAMS SHOULD BE CONSTRUCTED DOWNSTREAM FROM DISTURBED AREAS TO INTERCEPT SEDIMENT FROM OVERLAND RUNOFF AND /OR CONCENTRATED FLOW. THE DAMS SHOULD BE SIZED TO FILTER A MAXIMUM FLOW RATE OF 5 GPM / FT SLOPED OF CROSS SECTIONAL AREA. A 2 YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE.

1. TYPE 1 (8\"/>
2. TYPE 2 MAY BE USED IN DITCHES AND AT DINE OR SWALE OUTLETS.
3. TYPE 3 (8\"/>
4. TYPE 4 (SACK GABORIN): TYPE 4 MAY BE USED IN STREAM FLOW AND SHOULD BE SECURED TO THE STREAM BED.

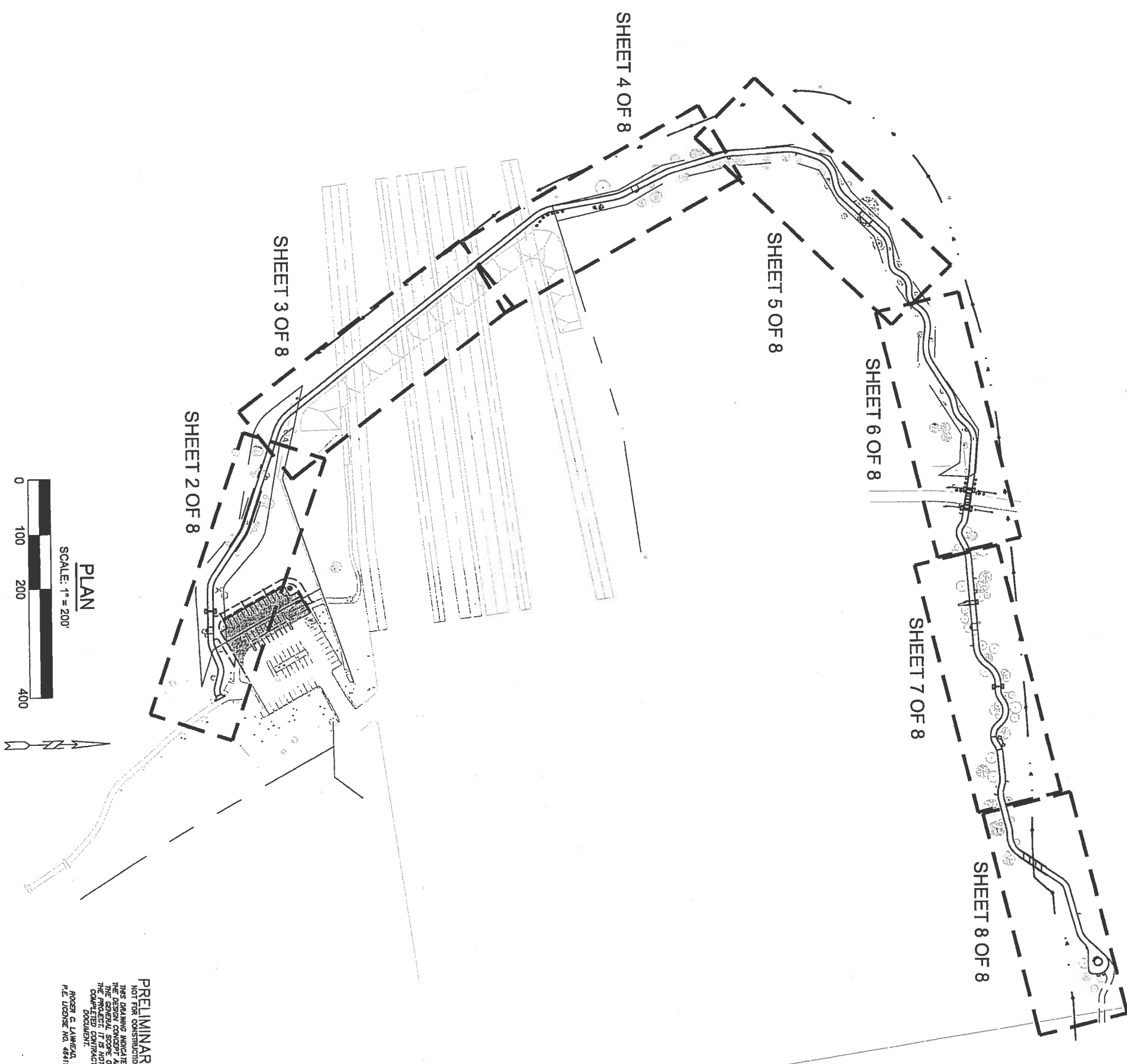
GENERAL NOTES

1. IF SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER, FILTER DAMS SHOULD BE CONSTRUCTED ON THE TOE OF SLOPES, WHERE EROSION IS ANTICIPATED UPSTREAM AND /OR DOWNSTREAM AT DRAINAGE STRUCTURES, AND IN ROADWAY DITCHES AND CHANNELS TO COLLECT SEDIMENT.
2. MATERIALS (AGGREGATE, WIRE MESH, SANDWICHES, ETC.) SHALL BE AS INDICATED BY THE SPECIFICATION FOR ROCK FILTER DAMS FOR EROSION AND SEDIMENTATION CONTROL.
3. THE ROCK FILTER DAM DIMENSIONS SHALL BE AS INDICATED ON THE STORM WATER POLLUTION PREVENTION PLANS.
4. SIDE SLOPES SHOULD BE 2:1 OR FLATTER. DAMS WITHIN THE SAFETY ZONE SHALL HAVE SOE SLOPES OF 8:1 OR FLATTER.
5. MAINTAIN A MINIMUM OF 1' BETWEEN TOP OF ROCK FILTER DAM WEB AND TOP OF EXHIBIMENT FOR FILTER DAMS AT SEDIMENT TRAPS.
6. FILTER DAMS SHOULD BE EMBEDDED A MINIMUM OF 4' INTO THE EXISTING GROUND.
7. THE SEDIMENT TRAP FOR RONDING OF SEDIMENT LOREN RUNOFF SHALL BE OF THE DIMENSIONS SHOWN ON THE PLANS.
8. ROCK FILTER DAM TYPES 2 & 3 SHALL BE SECURED WITH 20 GAUGE GALVANIZED STEEL WIRE MESH WITH 1\"/>
9. SACK GABORINS SHOULD BE STAKED DOWN WITH 3/4\"/>
10. FLOW OUTLET SHOULD BE ONTO A STABILIZED AREA (VEGETATION, ROCK, ETC.).
11. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

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CITY OF SAN ANTONIO

TEMPORARY EROSION, SEDIMENT & WATER POLLUTION CONTROL MEASURES STANDARDS 2



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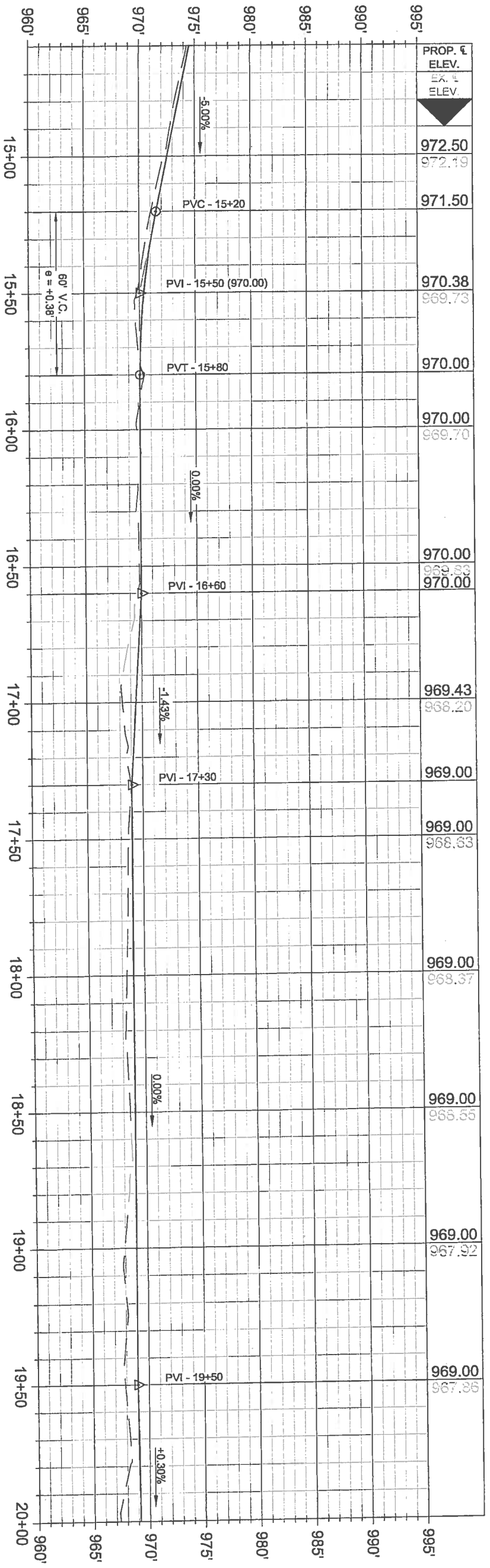
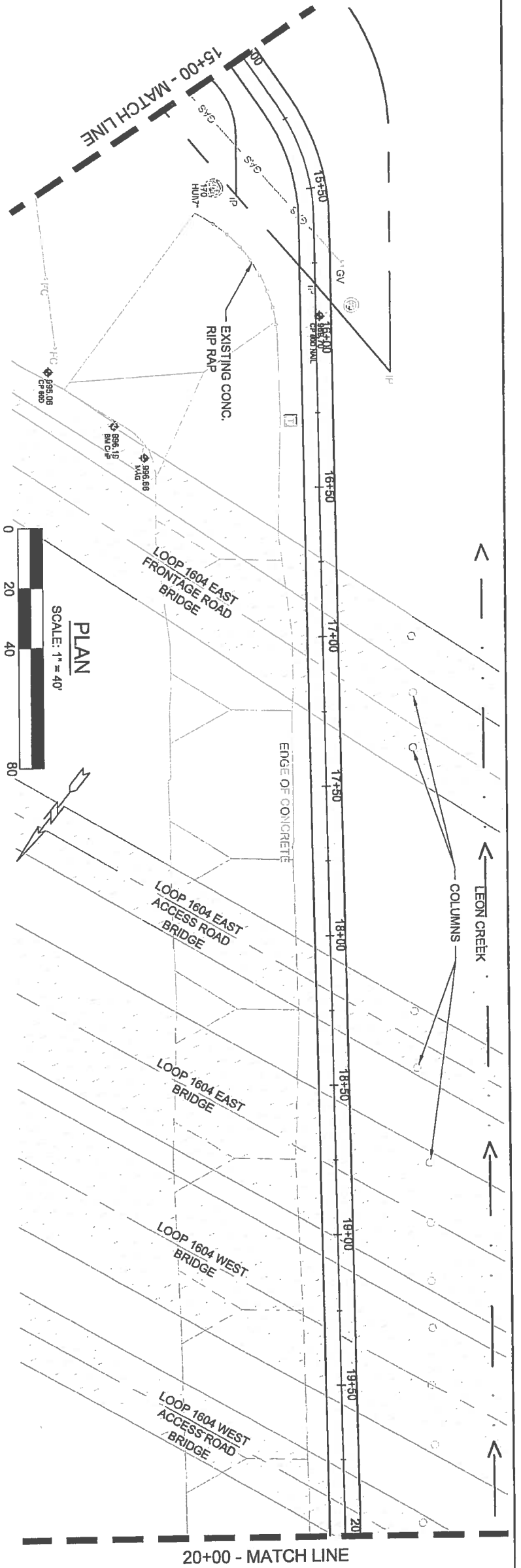


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CITY OF SAN ANTONIO
 PARKS AND RECREATION DEPARTMENT
 LEON CREEK LINEAR TRAIL EXTENSION
 C.O.S.A. PROJECT NO.: 28-00813

PLAN AND PROFILE INDEX

DATE:	11-07-14
SHEET NO.:	C14
SUBMITTAL:	SLAY PROJECT NO.: 13-042
DRWN. BY:	JVA
DSSN. BY:	RCL
CHKD. BY:	RCL
SHEET 1 OF 8	



PROFILE
 HORIZONTAL SCALE: 1" = 40'
 VERTICAL SCALE: 1" = 10'

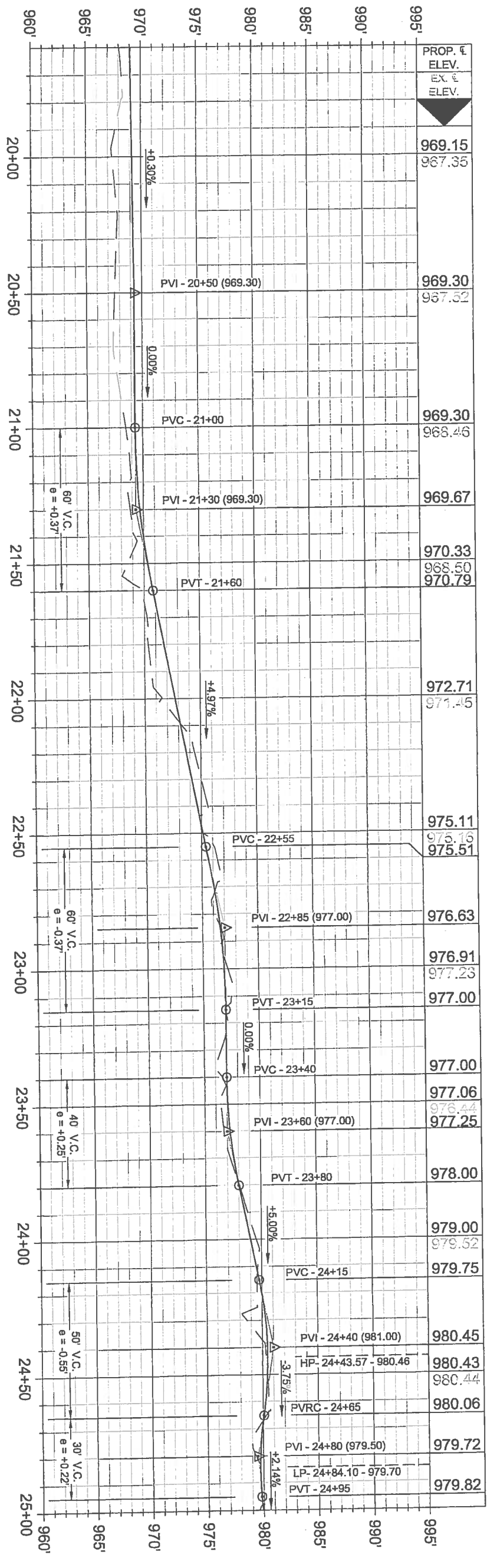
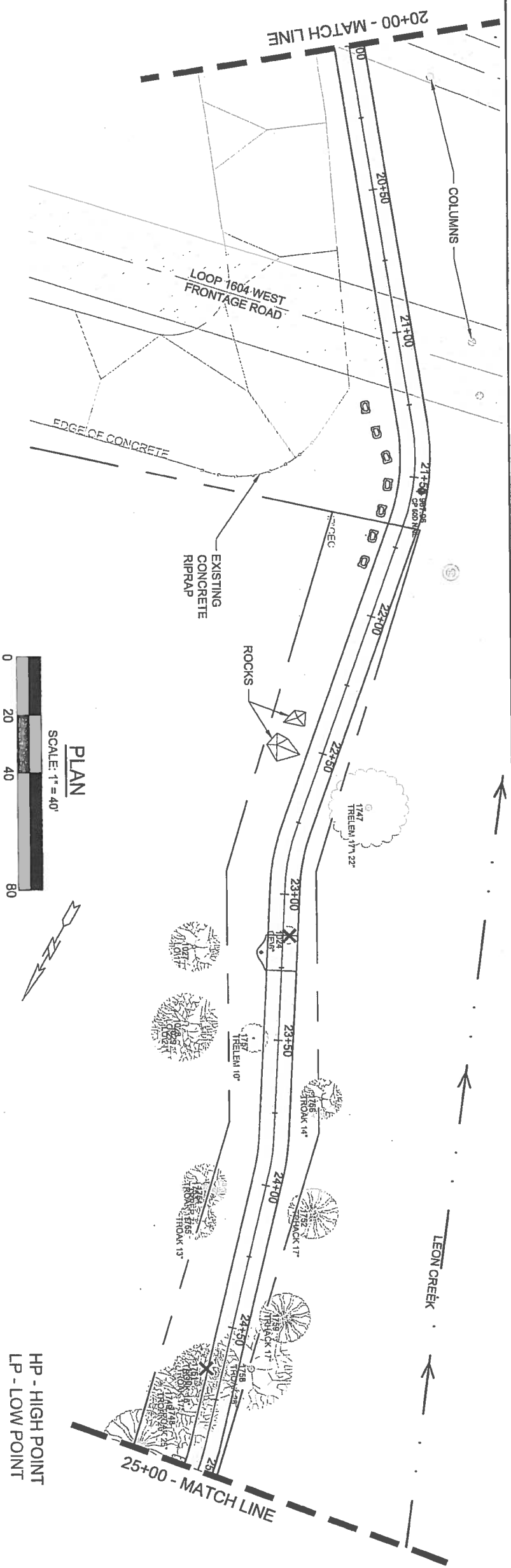
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 C.O.S.A. PROJECT NO.: 28-00813

PLAN AND PROFILE
 SHEET 3 OF 8

DATE: 11-07-14
SUBMITTAL: SLAY PROJECT NO.: 13-042
DESIGN BY: JVA
CHECKED BY: R.C.L.
DATE: 11-07-14
SHEET NO.: C16



PROFILE
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1" = 10'

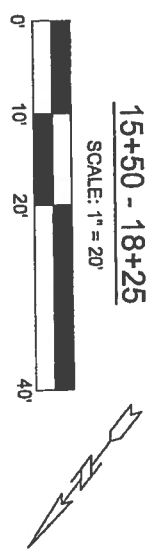
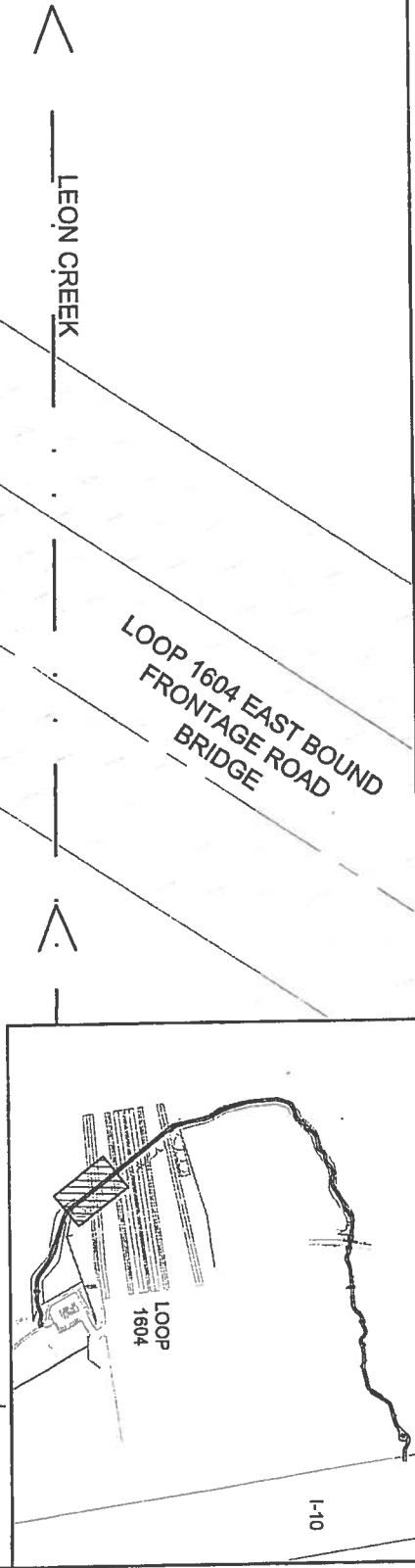
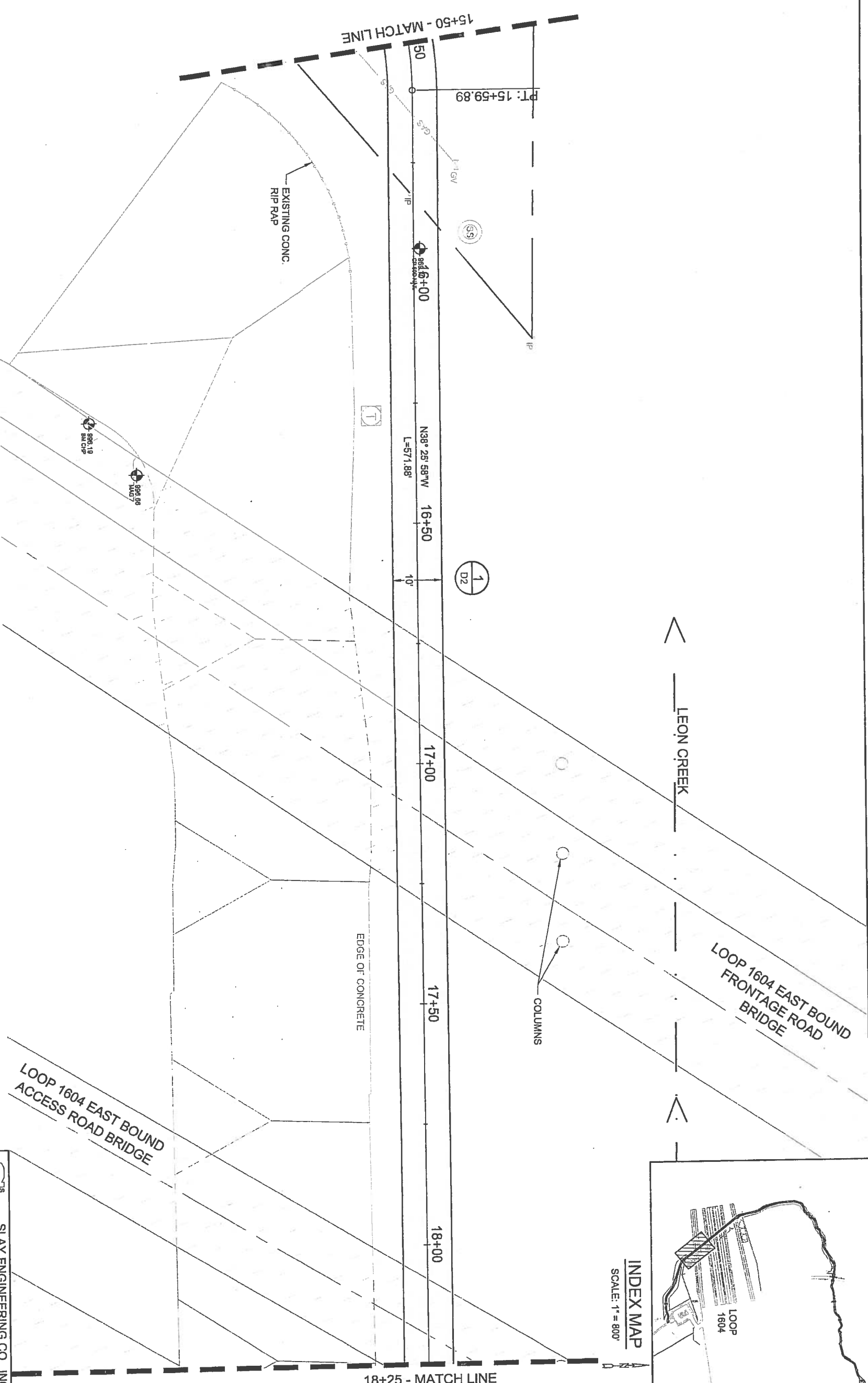
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C.O.S.A. PROJECT NO.: 26-00613


PLAN AND PROFILE
SHEET 4 OF 8

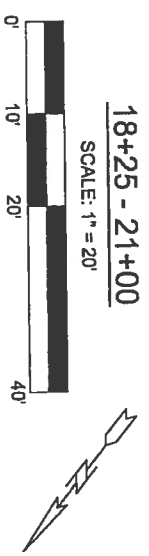
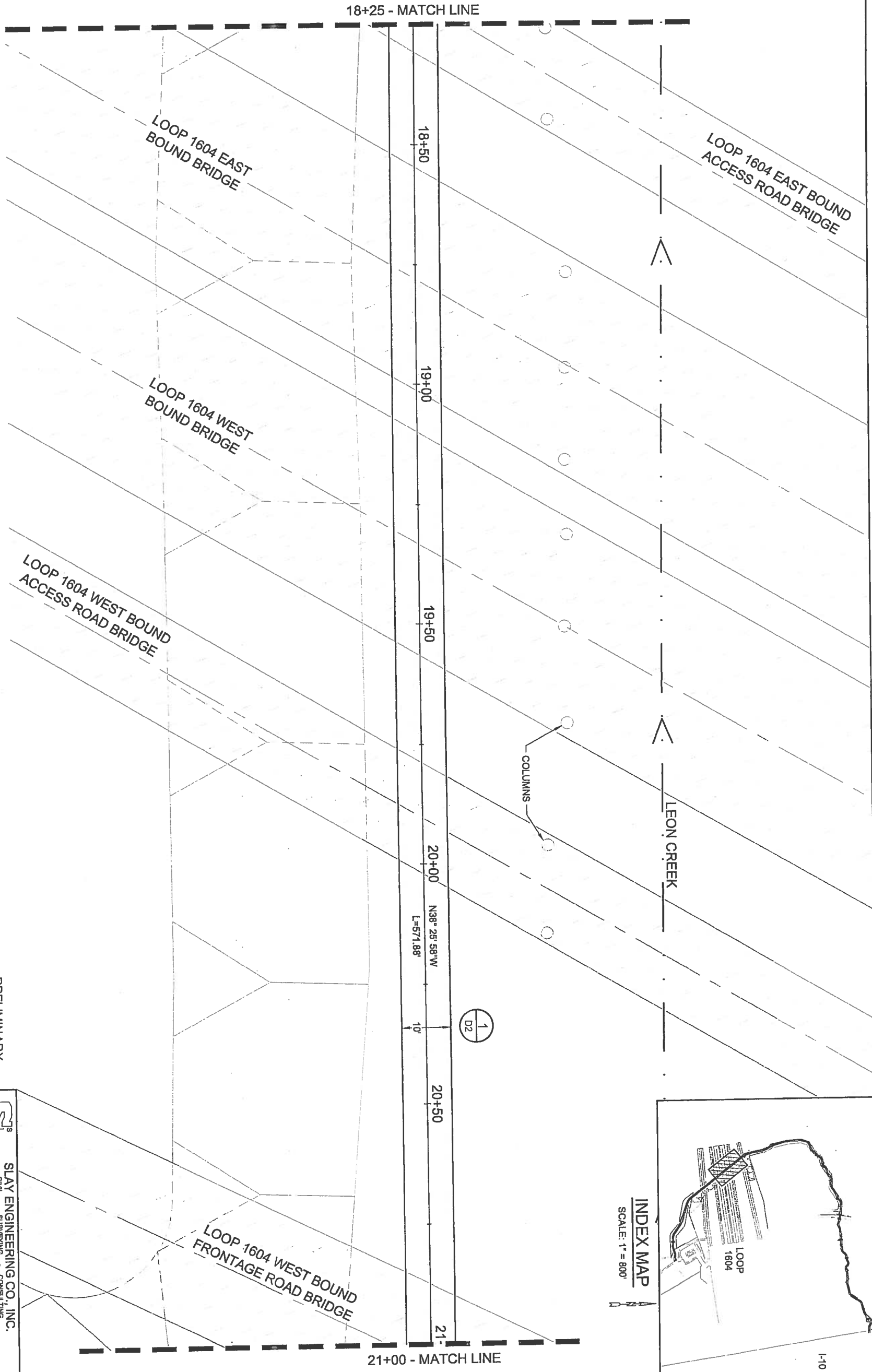
DATE: 11-07-14
SHEET NO.: C17
DATE: 11-07-14
SHEET NO.: C17



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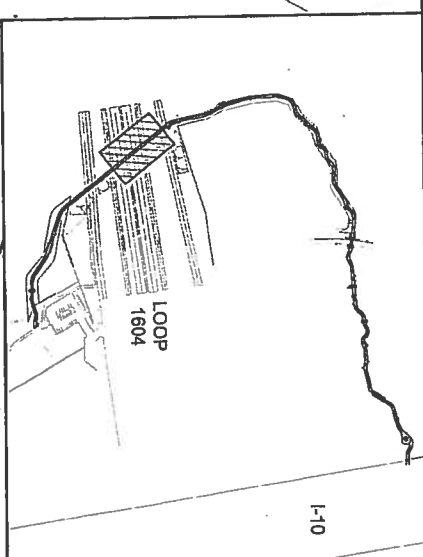
**LOOP 1604 EAST BOUND
 ACCESS ROAD BRIDGE**

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CITY OF SAN ANTONIO PARKS AND RECREATION DEPARTMENT LEON CREEK LINEAR TRAIL EXTENSION C.O.S.A. PROJECT NO.: 28-00613	
SUBMITTAL DRAWN BY: JVA DSIGN BY: RCL CHECKED BY: RCL	SLAY PROJECT NO.: 13-042 SHEET NO.: 025 SHEET 4 OF 14
DATE: 11-07-14	DATE: 11-07-14



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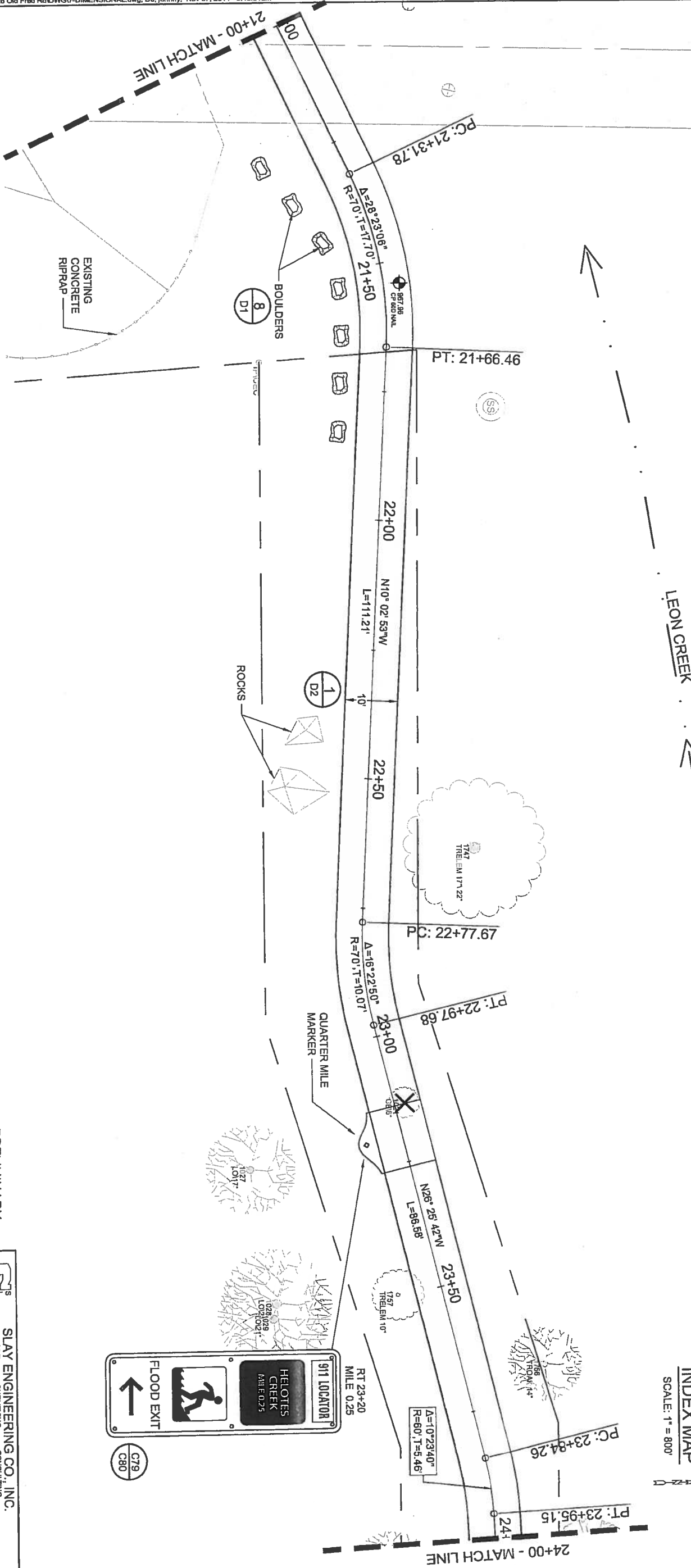
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SUBMITTAL	DSGN. BY: R.C.L.	SHEET NO.: C26
	CHKD. BY: R.C.L.	

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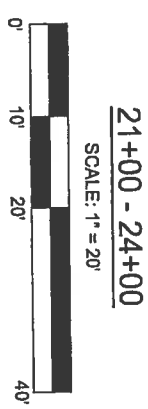
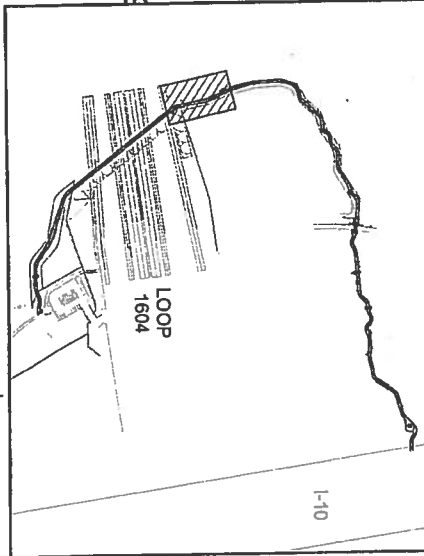
DIMENSIONAL
SHEET 5 OF 14

LOOP 1604 WEST BOUND
FRONTAGE ROAD BRIDGE



LEON CREEK

INDEX MAP
SCALE: 1" = 800'



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PARKS AND RECREATION DEPARTMENT
LEON CREEK LINEAR TRAIL EXTENSION
C.O.S.A. PROJECT NO.: 28-00613

DIMENSIONAL
SHEET 6 OF 14

DATE:	11-07-14
SUBMITTAL:	SLAY PROJECT NO.: 13-042
DESIGN BY:	R.C.L.
CHECKED BY:	R.C.L.
DRAWN BY:	JVA
SHEET NO.:	G27