C1.13  C6.02  -  -  -  C7.12  -  -  -  C8.05  C9.04
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Texas Parks & Wildlife
C1.10  -  -  -  C7.07  L3.02
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4200 SMITH SCHOOL ROAD   AUSTIN, TEXAS 78744-3292
INFRASTRUCTURE DIVISION
TEXAS PARKS AND WILDLIFE
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SMITHVILLE
NORTH
BASTROP COUNTY
STATE PARK
STATE PARK
BUESCHER
NORTH
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Southern Limits of Park
BUESCHER STATE PARK
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VICTORY ROAD
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TEXAS PARKS AND WILDLIFE
INFRASTRUCTURE DIVISION
4200 SMITH SCHOOL ROAD - AUSTIN, TEXAS 78744-3292

SCOPE OF WORK
The project consists of rehabilitation and reconstruction of the existing spillway and incorporates the enlargement of the existing spillway as part of the Buescher State Park Dam improvements project. The spillway length will be increased by 3 to 4 feet and hydraulic improvements will provide additional hydraulic capacity to allow the spillway to convey the maximum storm event as required by TCEQ regulations for dams classified as high hazard.
PROPOSED FACILITY GRADES CONFLICT WITH EXISTING UTILITY GRADES. AND ARE CONSIDERED APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY THE PLANS WERE OBTAINED FROM AVAILABLE UTILITY COMPANY RECORDS AND PLANS 7. THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES SHOWN ON HORIZONTAL ACCURACY. DISTURBED DURING CONSTRUCTION. IF CONTRACTOR SETS NEW BENCHMARKS, THE 6. CONTRACTOR SHALL PROTECT ALL BENCHMARKS AND PROPERTY MONUMENTATION AND AND AT CONSTRUCTION ENTRANCE.

EXCAVATION CARE OF WATER PLAN. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING

THE FOLLOWING CHANNEL SEEDING MIX SHALL BE APPLIED TO THE RECEIVING SPECIES:

D. PERCENTAGE COMPLETION OF THE PROJECT

GENERAL NOTES

A. PROPOSED CONSTRUCTION SCHEDULE

B. FIRE CODE

C. STATE ENERGY CONSERVATION OFFICE (SECO)/TEXAS COMPTROLLERS OFFICE

4. CONTRACTOR SHALL PROVIDE, IMPLEMENT AND MAINTAIN A STORM WATER POLLUTION

5. THE CONTRACTOR SHALL PROVIDE, IMPLEMENT AND MAINTAIN A STORM WATER POLLUTION

6. PRIOR TO FINAL ACCEPTANCE OF PROJECT, TPWD MAY REQUIRE A FIELD SURVEY REQUESTED BY TPWD.

7. ALL CONTRACTOR MILEAGES SHALL BE ADJUSTED TO PROJECT MILEAGE BASED ON PROJECT

8. GASOLINE AND DIESEL FUELED FIELD EQUIPMENT MUST BE INSPECTED DAILY FOR SIGNS

9. JUNE 1 THRU JUNE 30. CONSTRUCTION ACCESS SHALL HAVE A TOAD FENCE (EXCLUSION)

10. CONTRACTOR AS DEFINED BY LIMIT OF GRADING ON PLAN, SHALL BE ADEQUATELY

11. ANY TREE DAMAGE FOR THE PURPOSE OF THIS PROJECT IS DEFINED AS ANY DAMAGE TO

12. TREE DAMAGE FOR THE PURPOSE OF THIS PROJECT IS DEFINED AS ANY DAMAGE TO

13. CONTRACTOR SHALL REMOVE AND STOCKPILE EXISTING TOPSOIL TO LATER BE RESPREAD,

14. CONTRACTOR SHALL PREPARE, IMPLEMENT AND MAINTAIN A STORM WATER POLLUTION

15. CONTRACTOR SHALL PREPARE, IMPLEMENT AND MAINTAIN A STORM WATER POLLUTION

16. CONTRACTOR SHALL PREPARE, IMPLEMENT AND MAINTAIN A STORM WATER POLLUTION

17. PRIOR TO FINAL ACCEPTANCE OF PROJECT, TPWD MAY REQUIRE A FIELD SURVEY REQUESTED BY TPWD.

18. PRIOR TO FINAL ACCEPTANCE OF PROJECT, TPWD MAY REQUIRE A FIELD SURVEY REQUESTED BY TPWD.
SEQUENCE OF CONSTRUCTION NARRATIVE

CONSTRUCTION SHALL BE PERFORMED IN PARCELS. SUB-PHASES AND SUBSEQUENCES WITHIN
SUCH PARCELS MAY OCCUR DURING THE PERFORMANCE OF EACH PHASE.

PHASE 1: SPILLWAY AND CHUTE DEMOLITION AND SUBSEQUENT RECONSTRUCTION

PHASE 2: EMBANKMENT HEIGHT MODIFICATIONS

PHASE 3: SHORELINE STABILIZATION

GENERAL NOTES

1.  INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS WELL AS TREE PROTECTION
    MEASURES PER APPROVED SWPPP. ONCE TOAD EXCLUSION FENCE PERIMETER HAS BEEN
    ESTABLISHED COORDINATE SITE CLEARING WITH TOAD MONITORS BEFORE BEGINNING
    CONSTRUCTION/DEMOLITION.

2.  NOTIFY TXDOT FOR USE OF STAGING AREA C. AFTER APPROVAL, SET UP STAGING AREA AND
    REQUIRED TRAFFIC CONTROL.

3.  NOTIFY PARK DIRECTOR (RANGER) OF ALL PROPOSED SIGNS TO BE USED. ALL SIGNAGE TO BE IN ACCORDANCE WITH THE
    LATEST EDITION OF TMUTCD.

4.  DOCUMENT PRE-CONSTRUCTION CONDITION OF WORK AREA, STAGING AREA, AND HAUL
    ROADS/ROUTES PER SPECIFICATION. CONTRACTOR IS RESPONSIBLE FOR REPAIRING
    ROADS TO PRE-CONSTRUCTION CONDITION AT NO ADDITIONAL COST TO THE PROJECT.

5.  BEGIN LAKE DRAW DOWN TO ELEVATION 340.00 PER APPROVED CARE OF WATER PLAN.

6.  CONSTRUCT PHASE 1 IMPROVEMENTS AT SPILLWAY, CHUTE AND DOWNSTREAM RECEIVING
    CHANNEL.

7.  INSTALL COFFER DAM PER APPROVED PLAN.

8.  COMPLETE EROSION CONTROL MEASURES AND TREE PROTECTION MEASURES.

9.  INSTALL TREES PER PLAN FOR PHASE 1 CONSTRUCTION AND STAGING AREA ACCESS.

10. DEMOLISH EXISTING SPILLWAY AND HAUL MATERIAL OFF SITE.

11. EXCAVATE ALL MATERIAL IN SPILLWAY AREA. ALL SANDSTONE BOULDERS SMALLER THAN 1-FT DIAMETER, EXCEPT WHERE NOTED, SHALL BE SALVAGED
    AND PROVIDED TO THE PARK DIRECTOR (RANGER). LOCATION OF STOCKPILE
    LARGER THAN 1-FT DIAMETER, EXCEPT WHERE NOTED, SHALL BE SALVAGED
    AND PROVIDED TO THE ENGINEER AND TPWD ODR FOR
    APPROVAL.

12. CONSTRUCT PHASE 1 IMPROVEMENTS AT EMBANKMENT PER PLAN.

13. REVEGETATE ALL DISTURBED AREAS FROM PHASE 1 PRIOR TO COMMENCING PHASE 2.

14. NOTIFY PARK DIRECTOR (RANGER) OF ALL PROPOSED SIGNS TO BE USED. ALL SIGNAGE TO BE IN ACCORDANCE WITH THE
    LATEST EDITION OF TMUTCD.

15. REMOVE REMAINING TREES PER PLAN AT EMBANKMENT AREA FOR PHASE 2 CONSTRUCTION.

16. EXCAVATE BENCHING IN EXISTING EMBANKMENT PER PLAN.

17. CONSTRUCT PHASE 2 IMPROVEMENTS AT EMBANKMENT PER PLANS.

18. REVEGETATE ALL DISTURBED PHASE 2 AREAS.

19. CONSTRUCT PHASE 3 SHORELINE STABILIZATION ITEMS
    REPURPOSED FOR ARMORING.

20. RECONSTRUCT SALVAGED CANOE SHED
    CHANNEL.

21. REVEGETATE ALL DISTURBED PHASE 3 AREAS.

22. DOCUMENT POST-CONSTRUCTION CONDITION OF OVERALL WORK AREA, STAGING AREA,
    AND HAUL ROADS/ROUTES PER SPECIFICATION. CONTRACTOR IS RESPONSIBLE FOR
    REPAIRING ROADS TO PRE-CONSTRUCTION CONDITION AT NO ADDITIONAL COST TO TPWD.

23. COMPLETE EROSION CONTROL MEASURES AND TREE PROTECTION MEASURES.

24. COMPLETE EMBANKMENT HEIGHT MODIFICATIONS.

25. REMOVE EROSION CONTROL AND TREE PROTECTION MEASURES.

26. COMPLETE LAKE DRAW DOWN TO ELEVATION 340.00 PER APPROVED CARE OF WATER PLAN.

27. INSTALL TEMPORARY COFFER DAM UPON COMPLETION OF PUNCHLIST ITEMS

28. COMPLETE EMBANKMENT HEIGHT MODIFICATIONS.

29. COMPLETE LAKE DRAW DOWN TO ELEVATION 340.00 PER APPROVED CARE OF WATER PLAN.

30. COMPLETE SHORELINE STABILIZATION MEASURES.

31. COMPLETE ALL REMAINING ITEMS NOT LISTED IN PREVIOUS ITEMS.

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74. COMPLETE ALL REMAINING ITEMS NOT LISTED IN PREVIOUS ITEMS.
PARK ACCESS NOTES:
1. THE FOLLOWING IS THE APPROVED CONSTRUCTION ACCESS ROUTE TO BUESCHER STATE PARK LAKE:
   - FROM FM 117 TURN EAST ON FM 119.
   - CONTINUE ON FM 119 TO FM 254 TURN LEFT INTO PARK EXTENSION AND KEEP LEFT ON FM 119.
   - CONTINUE ON FM 119 TO SHADY GROVE ROAD OR EMERGENCY ACCESS AREA.
   - DO NOT CONTINUE PAST EMERGENCY AREA.
   - EXIT THE CIRCLE-route AS DIRECTED.

2. THE FOLLOWING ARE FOOT-WIGHT RESTRICTIONS TO BE FOLLOWED WHEN ACCESSING THE SITE THROUGH
   THE EMERGENCY AREA:
   - SINGLE HUNRE LD
   - TWO VEHICLES

ANY DAMAGE TO EXISTING ROADWAYSrynami by accessing this site shall be repaired by the Contractor at
additional expense to the Contractor. As determined by the "as-built" construction documentation
processed by the Contractor and as inspected by the Engineer. Contractor's proposed repair to be
submitted to Engineer for concurrence before implementation.

3. Contractor shall remove any damages or obstructions that are caused by the project.

4. Any temporary access improvements shall be designed, planned and kept in conjunction with
   the drainage requirements.

5. All roads shall be kept clean and free of mud, ice and debris due to contractor activities.

CONTRACTOR SHALL MAIN DRAINAGE AND DRAINAGE WAGON AT FM 119 AND 190 WHICH WAGON ON APPROVED
BY TPWD. NO ADDITIONAL PAVEMENT TO TEMP COUNT. FACILITIES TO COMPLETE.

6. All construction vehicles shall display a project specific placard at all times while within the
   PARK ACCESS. A PROOF OF THE PLACARD SHALL BE SUBMITTED TO ENGINEER FOR TPWD APPROVAL PRIOR TO
   CONSTRUCTION ACTIVITIES.
1. PLACE TOAD EXCLUSION FENCE AT LIMITS OF CONSTRUCTION UNLESS OTHERWISE NOTED.

2. SEE CONSTRUCTION PHASING NOTES ON GENERAL NOTES SHEET.

3. BYPASS PUMPING CORRIDOR AND PUMP SHALL BE LOCATED WITHIN THE LIMITS OF CONSTRUCTION OF COFFER DAM REQUIRED FOR CARE OF WATER.

4. FACE OF COFFERDAM WAS MEASURED FROM EXISTING GROUND TO TOP OF WALL.
NOTE:
1. FLAGGERS REQUIRED: TWO-WAY CONSTRUCTION TRAFFIC ON 18-FT ROADWAY. CONTRACTOR TO NOTIFY CONSTRUCTION TRAFFIC BARRIERS THAT ARENDING AND OUTBOUND VEHICLES DO NOT CONFLICT.

2. FLAGGERS TO FOLLOW GUIDELINES AND PROCEDURES AS NOTED IN SECTION 6E.07 OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD 2014)

3. THE LOCATION AND ORIENTATION OF PROPOSED SIGNS AND TRAFFIC BARRIERS SHALL BE IN ACCORDANCE WITH THE TMUTCD.

4. TY 3 BARRICADE & ROAD CLOSED SIGN TO BE REMOVED AT BEGINNING OF WORK DAY AND PLACED AT END OF WORK DAY.

5. CONTRACTOR TO SUBMIT WRITTEN TRAFFIC CONTROL PLAN FOR APPROVAL PRIOR TO COMMENCING CONSTRUCTION.

6. CONTRACTOR TO SUBMIT WRITTEN TEMPORARY SHORING PLAN TO PROTECT CULVERT FROM CONSTRUCTION LOADING. PLAN TO BE SIGNED AND SEALED BY TEXAS PROFESSIONAL ENGINEER AND APPROVED BY TPWD.

REFERENCES AND REFERENCES TO SD, RD, & RD 1E FOR PARK VISITORS.

RED FLUORESCENT FLAGS 24" x 24" (TYP)

NO RIGHT TURN EXIT PARK

END OF WORK DAY

TY 3 BARRICADES & ROAD CLOSED SIGN TO BE REMOVED AT BEGINNING OF WORK DAY AND PLACED AT END OF WORK DAY.

CONSTRUCTION TRAFFIC)

(2) CLOSED TO CONSTRUCTION VISITOR ACCESS ONLY

PARK RD 1E FOR PARK VISITORS

SEE NOTE 6 THIS SHEET. TEMPORARY SHORING. CONTRACTOR TO PROVIDE EXISTING HISTORIC CULVERT, AND APPROVED BY TPWD.

PLAN TO BE SIGNED AND SEALED BY TEXAS PROFESSIONAL ENGINEER TO PROTECT CULVERT FROM CONSTRUCTION LOADING. CONTRACTOR TO SUBMIT WRITTEN TEMPORARY SHORING PLAN 6.

FOR APPROVAL PRIOR TO COMMENCING CONSTRUCTION.

MARKETED CONSTRUCTION TRAFFIC SUCH THAT INBOUND AND OUTBOUND VEHICLES DO NOT CONFLICT.

MARKETED CONSTRUCTION TRAFFIC SUCH THAT INBOUND AND OUTBOUND VEHICLES DO NOT CONFLICT.

(2) CLOSED TO CONSTRUCTION VISITOR ACCESS ONLY

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PLAN TO BE SIGNED AND SEALED BY TEXAS PROFESSIONAL ENGINEER TO PROTECT CULVERT FROM CONSTRUCTION LOADING. CONTRACTOR TO SUBMIT WRITTEN TEMPORARY SHORING PLAN 6.

FOR APPROVAL PRIOR TO COMMENCING CONSTRUCTION.
NOTES:

1. FLAGGERS REQUIRED: TWO WAY CONSTRUCTION TRAFFIC ON NARROW ROADWAY, CONTRACTOR TO METER FLAGGERS REQUIRED: TWO WAY TRAFFIC.

2. TRUCKS SHALL USE EXISTING PARKING LOT TO TURN AROUND ON NARROW ROADWAY. CONTRACTOR TO METER TRAFFIC SUCH THAT INBOUND AND OUTBOUND VEHICLES DO NOT CONFLICT.

3. THE LOCATION AND ORIENTATION OF PROPOSED SIGNS AND TRAFFIC BARRIERS SHALL BE IN ACCORDANCE WITH THE MUTCD.

4. CONSTRUCTION WORK AHEAD ZONE SIGNAGE SHALL BE 120 FT.

PRIOR TO BEGIN WORK ZONE SIGNAGE

CONSTRUCTION WORK AHEAD SIGNAGE SHALL BE 120-FT.

THE LOCATION AND ORIENTATION OF PROPOSED SIGNS

AND TRAFFIC BARRIERS SHALL BE IN ACCORDANCE

WITH THE MUTCD.

CONSTRUCTION WORK AHEAD ZONE SIGNAGE SHALL BE 120 FT.

PRIOR TO BEGIN WORK ZONE SIGNAGE

CONSTRUCTION WORK AHEAD SIGNAGE SHALL BE 120 FT.

THE LOCATION AND ORIENTATION OF PROPOSED SIGNS

AND TRAFFIC BARRIERS SHALL BE IN ACCORDANCE

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AND TRAFFIC BARRIERS SHALL BE IN ACCORDANCE

WITH THE MUTCD.
BARRICADE AND CONSTRUCTION (BC) STANDARD SHEETS GENERAL NOTES:

1. The Barricade and Construction Standard Sheets (BC sheets) are intended to show typical examples for placement of temporary traffic control devices, construction zone markings, and typical work zone signs. The information contained in these sheets may exceed the requirements shown in the Texas Manual on Uniform Traffic Control Devices (TMUTCD).

2. The development and design of the Traffic Control Plan (TCP) is the responsibility of the Engineer.

3. The Contractor may propose changes to the TCP that are signed and sealed by a licensed professional engineer for approval. The Engineer may approve, sign and seal the Contractor proposed changes.

4. The Contractor is responsible for installing and maintaining the traffic control devices as shown in the plans. The Contractor may not move or change the approximate location of any device without the approval of the Engineer.

5. Geometric design of lane shifts and demarcation should, when possible, meet the applicable design criteria contained in manuals such as the American Association of State Highway and Transportation Officials (AASHTO), "Guide on Geometric Design of Highways and Streets," the TxDOT "Roadway Design Manual" or engineering judgment.

6. When projects occur, the Engineer shall note the END ROAD WORK, TRAFFIC FINES DOUBLE, and one advance warning sign. If the sign would be redundant and the work areas appear continuous to the motorists. If the adjacent project is completed first, the Contractor shall erect the END ROAD WORK sign on the left side of the road and remove the advanced warning sign. The END ROAD WORK sign shall be placed at intersections to indicate that the Contractor will be directed by the Engineer. The BEGIN ROAD WORK NEXT X MILES shall be revised to show appropriate work zone distance.

7. The Contractor may require duplicate warning signs on the median side of divided highways where median width will permit and traffic volumes justify the signing.

8. All signs shall be constructed in accordance with the details found in the "Standard Highway Signs and Signs for Texas," latest edition. Sign details not shown in this manual shall be shown in the plans or the Engineer shall provide a detail to the Contractor before the sign is manufactured.

9. The temporary traffic control devices shown in the illustrations of the BC sheets are examples. As necessary, the Engineer will determine the most appropriate traffic control devices to be used.

10. As shown on BC12, the OBEY WARNING SIGNS MUST BE PLACED BEHIND THE CYLINDER. The OBEY WARNING SIGNS shall be placed behind the CYLINDER. This sign shall be placed in advance of the CSJ limits. However, the FINES DOUBLE sign shall be placed in advance of the CSJ limits. However, the FINES DOUBLE sign shall not be placed in advance of the CSJ limits. The BEGIN ROAD WORK sign shall be placed at or near the CSJ limits.

11. Except for devices required by the applicable traffic control devices to be used.

12. The Engineer has the final decision on the location of all traffic control devices.

13. Inactive equipment and work vehicles, including workers' private vehicles, must be parked away from traffic lanes. They should be as close to the right-of-way line as possible, or located behind a barrier or guardrail as approved by the Engineer.

WORKER SAFETY APPAREL NOTES:

1. Workers on foot who are exposed to traffic or to construction equipment within the right-of-way shall wear high-visibility safety apparel meeting the requirements of ISEA "American National Standard for High-Visibility Apparel," or equivalent revisions, and labeled as ANSI 107-2004 standard performance for Class 2 or 3 risk exposure. Class 3 garments should be considered for high traffic volume work areas or night time work.
### TYPICAL MINIMUM CLEARANCES FOR LONG TERM AND INTERMEDIATE TERM SIGNS

<table>
<thead>
<tr>
<th>Sign Type</th>
<th>Clearance</th>
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<tbody>
<tr>
<td>Traffic Control</td>
<td>3 ft</td>
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<tr>
<td>Work Zone</td>
<td>4 ft</td>
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<tr>
<td>Construction</td>
<td>5 ft</td>
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</tbody>
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### ATTACHMENT FOR SIGN SUPPORTS

- Support will not extend more than 24 in. beyond the edge of the road or driveway.
- Support will not extend more than 12 in. above the grade line.
- Support will not project more than 6 in. from the supporting surface.

### GENERAL NOTES FOR WORK ZONE SIGNS

- Traffic control signs shall be extended beyond the edge of the roadway.
- Signs shall be placed as near to the center of the roadway as practical.
- Signs shall be placed as near to the center of the roadway as practical.

### STOP/SLOW PADDLES

- STOP/SLOW paddle should be extended beyond the edge of the roadway.
- Paddle should not extend more than 12 in. above the grade line.
- Paddle should not project more than 6 in. from the supporting surface.

### CONTRACTOR REQUIREMENTS FOR MAINTAINING PERMANENT SIGNS WITHIN THE PROJECT LIMITS

1. Permanent signs are used on a go and go of traffic lanes or regulations. Once committed, signs are not to be removed or replaced without prior written consent from the contractor.
2. All signs shall be maintained in a good condition and shall be replaced as needed by the contractor.
3. All signs shall be maintained in a good condition and shall be replaced as needed by the contractor.
4. All signs shall be maintained in a good condition and shall be replaced as needed by the contractor.

### BARRICADE AND CONSTRUCTION TEMPORARY SIGN NOTES

- Barricades shall be placed under the road and shall not be used to direct traffic.
- Flags shall not be used to direct traffic.
- Flags shall not be used to direct traffic.
- Flags shall not be used to direct traffic.

### SUPPORT WELDS

- Support welds shall be extended beyond the edge of the roadway.
- Support welds shall not extend more than 12 in. above the grade line.
- Support welds shall not project more than 6 in. from the supporting surface.

### FAX: (512) 252-8141

- Fax numbers shall be extended beyond the edge of the roadway.
- Fax numbers shall not extend more than 12 in. above the grade line.
- Fax numbers shall not project more than 6 in. from the supporting surface.

### MAIL ADDRESS:

AUSTIN, TX 78729
BUILDING F SUITE 125
9500 AMBERGLEN BLVD.
**Description**

**PROJECT NUMBER:** 118686  
**DATE:** 1/20/2021  
**REVISION:** 1

**Sheet Number:** 1

**Sheet Title:** LAKE DAM IMPROVEMENTS  
**BUSCHELIER STATE PARK**

**LEGEND**

- EXISTING EDGE OF ASPHALT
- CREEK CENTERLINE
- EXISTING PROPERTY LINE
- EXISTING ROW
- EXISTING PARK BOUNDARY

**NOTES:**

1. STAGING AREA C IS WITHIN TXDOT ROW. USE OF AREA IS WITH PERMISSION OF TXDOT AND MAY BE SUBJECT TO ADDITIONAL REQUIREMENTS AS DIRECTED BY FIDEL INFRARED RECONSTRUCTION.
2. CONTRACTOR TO IDENTIFY PROPOSED DATES OF USE FOR STAGING AREA C CONSTRUCTION ACTIVITY TO THE SATISFACTION OF THE DEPARTMENT.
3. CONTACT MATT HURST (TXDOT) (979) 540-9110, mathew.hurst@txdot.gov  
   ON CONSTRUCTION SCHEDULE TO FACILITATE COORDINATION WITH TXDOT.
4. CONTRACTOR TO SUBMIT TRAFFIC CONTROL PLAN FOR UTILIZATION OF STAGING AREA C FOR TXDOT REVIEW AND APPROVAL, SIGNED AND SEALED BY A TEXAS PROFESSIONAL ENGINEER.
5. CONTRACTOR WILL RETURN STAGING AREA TO EXISTING CONTOURS AND CONSTRUCTION ACTIVITY TO THE SATISFACTION OF THE DEPARTMENT.
6. CONTRACTOR TO SUBMIT STAGING AREA UTILIZATION PROPOSAL TO THE SATISFACTION OF THE DEPARTMENT.

**STAGING AREA C LIMITS**

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**DETAILS**

2 of 2

**PROJECT LAYOUT**

C1.13

** texas parks and wildlife**

**buescher state park**

**lake dam improvements**

**tphc 118686**

**mailing address:**

austin, tx 78744  
4200 smith school road  
fax: (512) 389-8628  
tel: (512) 389-4800

**building f suite 125**

9500 amber Glenn Blvd.
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LINEAR CONSTRUCTION THROUGH TREES

TREES IN PAVING AREA

NATURAL AREAS

TREES NEAR CONSTRUCTION ACTIVITY

INDIVIDUAL TREE

GROUP OF TREES

TREE PROTECTION FENCE LOCATIONS

NOTE:
1. CRITICAL ROOT ZONE (CRZ) DIAMETER IS DEFINED AS 2x THE TREE TRUNK DIAMETER CONVERTED TO FEET. LIMITS OF CRITICAL ROOT ZONE (CRZ) PRIOR TO FENCE AT CRZ.
2. APPROXIMATED STRAIGHT LINE FROM DRIPLINE (VARIES) TO TRUNK. WHEN FENCE WILL BE LESS THAN 5', THEN ADD BOARDS STRAPPED TO TRUNK.
3. FENCING AT CRITICAL ROOT ZONE (CRZ) MUST COVER CHAIN LINK FENCE LOCATION DURING CONSTRUCTION LIMIT OF TRUCK DIAMETER 10' MAX. TYP. (LIMITS OF CRITICAL ROOT ZONE) (CRZ) TYP.
4. Wood Chip Mulch Area (6'' Depth) (Wood Chip Mulch Area (4" to 6" Depth))

*AS NEEDED TO PROVIDE NECESSARY WORK SPACE. IF LESS THAN 5', THEN ADD BOARDS STRAPPED TO TRUNK. TREE PROTECTION FENCING AT CRZ.

TREE PROTECTION FENCE - CHAIN LINK

STRUCTURE

FENCE LOCATION DURING CONSTRUCTION LIMIT OF CRITICAL ROOT ZONE (CRZ) (TYP.)

TREE PROTECTION FENCE (MODIFIED) - CHAIN LINK

STRUCTURE

RESTORE CURB INSTALLATION.

TREES NEAR CONSTRUCTION ACTIVITY

INDIVIDUAL TREE

GROUP OF TREES

TREE PROTECTION FENCE LOCATIONS
EMBANKMENT BENCHING DETAIL (N.T.S.)

EMBANKMENT BENCHING DETAIL (W/ BLANKET DRAIN) (N.T.S.)

AGGREGATE TOE DRAIN DETAIL (N.T.S.)

PROPOSED EMBANKMENT TYPICAL SECTION STA 1+85.46 TO STA 8+07.53
(N.T.S.)

NOTE:

1. SEE SHEET CT 05 FOR PLAN & ELEVATIONS OF TOE DRAIN AND BLANKET DRAIN.
2. REFERENCE SPECIFICATION 05-350 FOR CARPENTRY AND METALWORK.
3. REFERENCES SPECIFICATION 35-7313 FOR EMBANKMENT MATERIAL SELECTION.
4. REFERENCES SPECIFICATION 31-0519 FOR TOE DRAIN AND BLANKET DRAIN.
5. REFERENCE SPECIFICATION 31-0000 FOR WIREMESH AND NAILS FOR CONSTRUCTION.
6. CAVES CIVIL ENGINEERING &徕 quickly FOR MORE INFORMATION.

REFERENCES SPECIFICATION 35-7313 'EMBANKMENT FOR EARTH AND ROCKFILL DAMS’ FOR MORE INFORMATION.
REFERENCES SPECIFICATION 31-3700 'RIPRAP, BOULDERS, &c' FOR MORE INFORMATION.
REFERENCES SPECIFICATION 31-0519 'GEOTEXTILE' FOR MORE INFORMATION.
REFERENCES SPECIFICATION 31-0000 'EARTHWORK' FOR MORE INFORMATION.

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REFERENCE SPECIFICATION 31-0000 'EARTHWORK' FOR MORE INFORMATION.

NOTE:

AFTER PROPOSED TOPSOIL /SEEDING GRADES AND DIMENSIONS SHOWN ARE FINISHED GRADES AND BEDDING FOR MORE INFORMATION.
REFERENCE SPECIFICATION 35-7313 ‘EMBANKMENT FOR EARTH AND ROCKFILL DAMS’ FOR MORE INFORMATION.
REFERENCES SPECIFICATION 31-3700 'RIPRAP, BOULDERS, &c' FOR MORE INFORMATION.
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REFERENCES SPECIFICATION 31-0000 'EARTHWORK' FOR MORE INFORMATION.
NOTES:

2. CONTROL JOINT SPACING SHALL NOT EXCEED 10'-0'.

3. CURBS SHALL HAVE A MINIMUM OF 4" OF COMPACTED FLEXIBLE BASE BETWEEN BOTTOM OF CURB AND TOP SURFACE OF FLEXIBLE CURB. TOTAL COMPACTED thickness OF FLEXIBLE CURB SHALL BE A MINIMUM OF 3" WITHIN CURB AREA. TOTAL CEMENT CONTENT PER SQUARE FOOT BASE SHALL BE A MINIMUM OF 5% (ALL SIZES). REFLECTORS AND GATES SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES.

4. ALL CURBS SHALL CONFORM TO THESE DETAILS INDEPENDENTLY OF THE CONCRETE MIXTURE USED.

5. ALL WORK AND MATERIAL SHALL CONFORM TO ASTM A615, A615M, C309 AND D1752.

SEE EARTHWORK SPECIFICATIONS FOR GROUND SURFACE PREPARATION.

SEE DETAIL AND CABLE CONNECTION

RIBBON CURB DETAIL

1. MAINTENANCE DRIVEWAY TO BE COMPOSED OF LOCALLY SOURCED INCH MINUS GRAVEL.

2. PROVIDE A ONE GALLON BAG OF SAMPLE MATERIAL FOR APPROVAL BEFORE CONSTRUCTION.

3. MAINTAIN ROCK WITH NATURAL SOIL FROM EXCAVATION AT A RATE OF Minimum 25% INSIDE TANK.

4. ALL CURB WORK TO BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES.

5. MAINTENANCE ACCESS DRIVE TO BE COMPOSED OF LOCALLY SOURCED INCH MINUS GRAVEL.

6. IN ALL CASES USE 6" INCH MINUS GRAVEL AND SUBGRADE LAYERS.

RIBBON CURB DETAIL

POST & CABLE GATE DETAILS

CABLE CONNECTION (TURNBUCKLES & EYEBOLTS)

REFLECTOR
(95% COMPACTION) CONTOUR BREAK LINE

STA 1+28.20 (CL CHANNEL) EXIST ING

NATIVE BROWN LAUNCHABLE STONE FILL MATERIAL SC,CL,CH

SECTION AT DISCHARGE CHANNEL BEGIN LAUNCHABLE STONE STA 1+67.46 (CL CHANNEL)

18-IN NOMINAL ROCK DIAMETER
30-IN THICK ROCK RIPRAP NATIVE BROWN STONE

SEE SHEET C8.04 DETAIL

STA 1+90.10 (CL CHANNEL) TO STA 5+03.51 (CL CHANNEL)

TOP EL= 333.00
D50 =15-IN TO CHANNEL BOTTOM

STA 1+28.20 (CL CHANNEL) BEGIN PR CHANNEL

SEE SHEET C8.03 FOR DETAILS

MAX SCOUR EL=326.18 LAUNCHABLE STONE SECTION

335 EL=333.00
VPI STA 1+90.10 (CL CHANNEL) TOP OF ROCK RIFFLE

333.17 333.34 333.40 333.47 333.50
3+00 3+00 3+00 3+00 3+00

COBBLE STONE LAYER 4+00 STA 4+69.30 (CL CHANNEL)

SEE SHEET C6.05 FOR DETAIL

335 335 335 335 335
3 3 3 3 3

FOR SECTION B-B SEE SHEET C6.05

1. SEE SURVEY CONTROL, SHEET C2.02 FOR HORIZONTAL LAYOUT.
2. EXISTING EDGE OF ASPHALT FOR HORIZONTAL LAYOUT.
3. EXISTING PARCEL LINE
4. EXISTING TREE TO REMAIN
5. EXISTING CONTOUR
6. EXISTING TREE TO REMAIN

NOTES:
1. RIPRAP COMPOSITION.
2. IN SPECIFICATIONS FOR D50 GRADATION AND SEE RIPRAP, BOULDERS, AND BEDDING SECTION TRAINING BERM SECTIONS AT DISCHARGE CHANNEL AND SEE SHEET C8.03 FOR LAUNCHABLE STONE HISTORIC CULVERT, CULVERT HEADWALL, FOR HORIZONTAL LAYOUT.
3. SEE SURVEY CONTROL SHEET C2.02 FOR SURVEY CONTROL.

HISTORIC LIMITS OF NORMAL POOL BOUNDARY
EXISTING TREE TO REMAIN
EXISTING ROPE TO REMAIN
EXISTING EDGE OF ASPHALT
EXISTING PARCEL LINE

0.70% 0.85% 1.34% 5.70% 5.70%
10 10 10 10 10

NOTE: SCALE:
VERTICAL SCALE: 1"=5'
HORIZONTAL SCALE: 1"=20'

2.5 5 7.5 10 20 30

PROPOSED LEDGE ROCK BULKY OBJECT OR ◆ DRAINAGE BOUNDARY LINE

DRAINAGE BOUNDARY LINE

DRAINAGE BOUNDARY LINE

M A I L I N G  A D D R E S S : 9 5 0 0 A M B E R G L E N  B L V D . T E L : (5 1 2 ) 3 8 9 -4 8 0 0
T E X A S  P A R K S  A N D  W I L D L I F E F A X : (5 1 2 ) 3 8 9 -8 6 2 8
P L A N & P R O F I L E
CIVIL ENGINEERING SERVICE INFRAS TRUCTURE AND PLANNING DESIGN
BUESCHER STATE PARK BUC E S C H E R  S T A T E  P A R K
BUILDING F SUITE 125
AUSTIN, TX 78729 TEL: (512) 777-4600
TBP ENGINEERING FIRM #312

NOTE:
1. SYSTEM AND PROPOSED ELEVATION DATA IS UP TO TOP OF CULVERT OPENING TO KEEP IN FIRM.
DISCHARGE CHANNEL TYP. SECTION A-A
(N.T.S.)
CL CHANNEL STA 1+93.27 TO STA 3+25.78

DISCHARGE CHANNEL TYP. SECTION B-B
(N.T.S.)
CL CHANNEL STA 3+25.78 TO STA 4+69.30

DISCHARGE CHANNEL TYP. SECTION C-C
(N.T.S.)
CL CHANNEL STA 4+69.30 TO STA 5+03.51

LEDGE ROCK DIMENSIONS
(N.T.S.)
Sheet Title

NOTES:

1. SEE SPECIFICATIONS 31 20 00 'EARTHWORK' FOR DETAILED INFORMATION.

2. CONTRACTOR TO SUPPLY & STOCKPILE TOPSOIL & SEEDING.

3. EXCAVATION AND EMBANKMENT PLACEMENT & GEOTECHNICAL REPORT FOR MATERIALS, 35 73 13 'EMBANKMENT FOR EARTH DAMS' SEE SPECIFICATIONS 31 20 00 'EARTHWORK', 036 of 74

4. AQUATIC AND SOIL RETENTION BLANKET.

5. FINISHED GRADES AND DIMENSIONS SHOWN ARE TO TOPSOIL FOR FUTURE USE. CONTRACTOR TO STRIP & STOCKPILE EXCAVATION, AND EMBANKMENT PLACEMENT AND GEOTECHNICAL REPORT FOR MATERIALS, 35 73 13 'EMBANKMENT FOR EARTH DAMS' SEE SPECIFICATIONS 31 20 00 'EARTHWORK', 036 of 74

6. TIE TO TOE DRAIN PLAN & PROFILE ON SHEET C5.01 FOR MORE INFORMATION.

7. SEE EMBANKMENT BENCHING DETAIL TO 6-FT VERTICAL PER CONSTRUCTION DAY.

8. TOP SURFACE TO A MIN. DEPTH OF 8 INCHES.

9. DIFFERENT SHEET SCALE 1"=10' VS 1"=15' VERTICAL.

10. VERTICAL SCALE: 1"=10'
PROPOSED SPILLWAY TYPICAL SECTION

PROPOSED SPILLWAY DIMENSIONS (N.T.S.)
SECTION A-A TYPICAL SECTION  
(N.T.S.)

SECTION B-B TYPICAL SECTION  
(N.T.S.)

SECTION C-C TYPICAL SECTION  
(N.T.S.)

SECTION D-D TYPICAL SECTION  
(N.T.S.)

UNDER DRAIN DISCHARGE DETAIL  
(N.T.S.)
CLEANOUT DETAIL (PLAN VIEW)  
(N.T.S.)

CLEANOUT DETAIL (PROFILE VIEW)  
(N.T.S.)

CLEANOUT CAP DETAIL (PROFILE VIEW)  
(N.T.S.)

BACKFLOW PREVENTOR DETAIL  
(N.T.S.)
PROJECT NUMBER: 118686
DATE: 1/20/2021

PROPOSED TRAINING BERM SECTION
(N.T.S.)

LAUNCHABLE STONE SECTION AT DISCHARGE CHANNEL
(N.T.S.)

ROCK RIPRAP SLOPE PROTECTION SECTION A-A
(N.T.S.)

ROCK RIPRAP SLOPE PROTECTION SECTION B-B
(N.T.S.)

ROCK RIPRAP TOE FOR 18-IN THICKNESS
(N.T.S.)

ROCK RIPRAP TOE FOR 30-IN THICKNESS
(N.T.S.)

EAST EMBANKMENT SECTION
(N.T.S.)
MAINTENANCE ACCESS SWING GATE (7' LEAF)  
(N.T.S.)
TOAD FENCE GENERAL NOTES

1. THE ROCK FILTER DAM DIMENSIONS SHALL BE AS INDICATED ON THE PLANS.
2. SIDE SLOPES SHOULD BE 1:1 FLAT, DAMS WITHIN THE SAFETY ZONE SHALL HAVE SLOPES OF 0:1 FLAT OR FLATTER.
3. FILTER DAMS SHOULD BE FLATTENED A MINIMUM OF 4" INCREASING (LEVELING).
4. ROCK FILTER DAMS SHALL BE REINFORCED WITH 20 GAUGE GALVANIZED WOVEN WIRE MESH WITH 2" HAMMER-SHAFTED SQUARE OR 1" HAMMER-SHAFTED ROUND STAKES SPACED AT A MINIMUM OF 4" ON CENTER, WITH END POSTS EMBEDDED A MINIMUM OF 1' INTO THE BOTTOM.
5. THE TRENCH MUST BE A MINIMUM OF 4 INCHES WIDE AND 12 INCHES DEEP.
6. UNLESS OTHERWISE INDICATED, THE TRENCH SHOULD BE BACKFILLED WITH COMPACTED MATERIAL.
7. FILTER DAMS SHOULD BE SECURED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IN TURN IS ATTACHED TO THE STEEL FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF THE TRENCH MEET.
8. POST MUST BE EMBEDDED A MINIMUM OF 1' INTO THE BOTTOM OF THE TRENCH.

TOAD FENCE ACCESS POINT DETAIL

FILTER DAM GENERAL NOTES

1. THE ROCK FILTER DAM DIMENSIONS SHALL BE AS INDICATED ON THE PLANS.
2. SIDE SLOPES SHOULD BE 1:1 FLAT, DAMS WITHIN THE SAFETY ZONE SHALL HAVE SLOPES OF 0:1 FLAT OR FLATTER.
3. FILTER DAMS SHOULD BE FLATTENED A MINIMUM OF 4" INCREASING (LEVELING).
4. ROCK FILTER DAMS SHALL BE REINFORCED WITH 20 GAUGE GALVANIZED WOVEN WIRE MESH WITH 2" HAMMER-SHAFTED SQUARE OR 1" HAMMER-SHAFTED ROUND STAKES SPACED AT A MINIMUM OF 4" ON CENTER, WITH END POSTS EMBEDDED A MINIMUM OF 1' INTO THE BOTTOM OF THE TRENCH.
5. THE TRENCH MUST BE A MINIMUM OF 4 INCHES WIDE AND 12 INCHES DEEP.
6. UNLESS OTHERWISE INDICATED, THE TRENCH SHOULD BE BACKFILLED WITH COMPACTED MATERIAL.
7. FILTER DAMS SHOULD BE SECURED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IN TURN IS ATTACHED TO THE STEEL FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF THE TRENCH MEET.
8. POST MUST BE EMBEDDED A MINIMUM OF 1' INTO THE BOTTOM OF THE TRENCH.

TOAD FENCE ISOMETRIC PLAN VIEW

FILTER DAM AT CHANNEL SECTIONS

SECTION C-C
CONSTRUCTION ENTRANCE/EXIT (TYPE 1)

ROCK CONSTRUCTION N.T.S.

NOTES

1. THE LENGTH OF THE CONSTRUCTION EXIT TYPE 1 SHALL BE AS INDICATED ON THE PLANS, BUT NOT LESS THAN 6'.
2. THE COARSE AGGREGATE SHOULD BE OPEN GRADED WITH A SIZE OF 4" TO 8".
3. THE APPROACH TRANSITIONS SHOULD BE NO STEEPER THAN 6:1 AND CONSTRUCTED AS DIRECTED BY THE ENGINEER.
4. THE CONSTRUCTION EXIT基础的基材应为 flexible base, bituminous concrete, portland cement concrete or other material as approved by the Engineer.
5. THE CONSTRUCTION EXIT shall be graded to allow drainage to a sediment trapping device.
6. CONSTRUCT EXITS WITH A WIDTH OF AT LEAST 14 FT. FOR ONE-WAY AND 20 FT. FOR TWO WAY TRAFFIC FOR THE FULL WIDTH OF THE EXIT, OR AS DIRECTED BY THE ENGINEER.
LEGEND

- Existing Contour
- Proposed Contour
- Limits of Construction
- Proposed Rock Riprap
- Proposed Safety Sign
- Tree Removal
- Existing Tree to Remain
- Existing Parcel Line
- Existing Edge of Asphalt
- Bore Hole Location

NOTE:
1. Sign Background to be White in Color.
2. Text in 1.5" Min with White Text and White Exterior Surface.
3. Sign Material shall be Approved Quality (Reflective Aluminum or Type 1 Engineered Grade with Text and White Border Brown In Color with White Flood Gauge Background to Be Approved Quality)

SIGN EXAMPLES

- Do Not Enter
- No Swimming

18" x 12"

12" x 72"
1. GENERAL

2. AIR VENTS

3. ALUMINUM HATCHES

4. STRUCTURAL DRAWINGS

5. MANUFACTURED BY BILCO OR APPROVED EQUAL.

6. ALUMINUM HATCHES SHALL BE TYPE K AS MANUFACTURED BY THE BAR GRATING MANUFACTURER.

7. BAR GRATING SHALL BE 3/4" x 3/16" MINIMUM WELDED ACCORDANCE WITH THESE DRAWINGS AND THE SPECIFICATIONS.

8. COMPLETE SHOP DRAWINGS FOR THE STRUCTURAL WORK SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.

9. STRUCTURES SHOWN ON THESE DRAWINGS SHALL BE SUBMITTED TO THE CONTRACTOR AND THE ENGINEER FOR ADEQUATE STABILIZATION AND CONSTRUCTION.

10. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING OF ALL STRUCTURAL WORK AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

11. THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL AIR VENTS AND CORRUGATED SECTIONS.

12. THE STRUCTURAL DRAWINGS ARE NOT TO BE SCALLED FOR THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHODS OF CONSTRUCTION UNLESS SO STATED OR NOTED.

13. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING OF ALL STRUCTURAL WORK AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

14. THE STRUCTURAL DRAWINGS ARE NOT TO BE SCALLED FOR THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHODS OF CONSTRUCTION UNLESS SO STATED OR NOTED.

15. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING OF ALL STRUCTURAL WORK AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

16. THE STRUCTURAL DRAWINGS ARE NOT TO BE SCALLED FOR THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHODS OF CONSTRUCTION UNLESS SO STATED OR NOTED.

17. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING OF ALL STRUCTURAL WORK AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

18. THE STRUCTURAL DRAWINGS ARE NOT TO BE SCALLED FOR THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHODS OF CONSTRUCTION UNLESS SO STATED OR NOTED.

19. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING OF ALL STRUCTURAL WORK AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

20. THE STRUCTURAL DRAWINGS ARE NOT TO BE SCALLED FOR THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHODS OF CONSTRUCTION UNLESS SO STATED OR NOTED.

21. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING OF ALL STRUCTURAL WORK AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

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25. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING OF ALL STRUCTURAL WORK AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

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27. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING OF ALL STRUCTURAL WORK AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

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29. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING OF ALL STRUCTURAL WORK AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

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31. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING OF ALL STRUCTURAL WORK AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

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41. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING OF ALL STRUCTURAL WORK AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.

42. THE STRUCTURAL DRAWINGS ARE NOT TO BE SCALLED FOR THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHODS OF CONSTRUCTION UNLESS SO STATED OR NOTED.
WEST WALL ELEVATION

SCALE = "= 1'-0"

REFER CIVIL DWGS FOR UNDERDRAIN SYSTEM.

ELEV = 332.54
TOP OF FOOTING

ELEV = 345.61
TOP OF FOOTING

SPACING
WEEPHOLE
5'-0"

FRONT OF WALL
GRADE IN
BELOW)

ONLY (SEE NOTE
RETAINING WALLS
AT DRAINED
8'-0" OC MAX TYP
4" DIA WEEPHOLE AT
28'-0"
ELEV = 343.25
TOP OF WALL

E1
W2
FOOTING DETAIL OPP HAND
REF 01/S104 FOR STEPPED
S107 (TYP)
UPLIFT ANCHORS,
EAST WALL

16'-0"
08/S104

2'-6"
MIN

EL = 345.58
TOP OF WALL

EL = 351.17
TOP OF WALL

31'-6"

C CJ
L

SPILLWAY CHUTE
TOP OF FOOTING ELEV = 343.61
GRADE IN FRONT

31'-5"

C CJ
L

FL = 334.55
SPILLWAY

FL = 334.74
STILLING BASIN

FL = 334.74

FL = 351.25
GRATE

EL = 347.00
TOP OF FOOTING

EL = 332.54
TOP OF FOOTING

EL TOW = 356.75
RETAINING WALL

FL = 334.74
FINISHED FLOOR

FL = 350.50
SPILLWAY CREST

FL = 347.25
CRESTED WEIR SECTION

FL = 334.74
WALL STEM

18"x18" OPNG

18" AIR VENT

2'-10"

2'-10"

2'-5"

97'-6"

SEE PLAN ON S101
UPLIFT ANCHORS,
STILL BASIN

18" BAR

18" AIR VENT

FL = 334.74
18"x18" OPNG

C SHARP CRESTED WEIR

C SHARP

C EJ
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C SHARP

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WALL STEM/FOOTING JOINT AND WATERPROOFING DETAILS

1. Waterproofing shall be Type 4 or Type 6, consist of a self-adhering membrane or a rubberized asphalt used alone or in conjunction with a RUB-ON type membrane. All waterproofing shall extend onto a preformed board, and shall apply asphalt primer, where noted.

TYPICAL CONTRACTION JOINTS

1. Contraction joints see plans and profiles.
2. All dowels shall be sawcut to length, not sheared, and free from burrs.
3. All dowels shall be securely placed perpendicular to joint surface both vertically and horizontally to promote free movement of the joint.

TYPICAL EXPANSION JOINTS

1. Expansion joints see plans and profiles.
2. All dowels shall be sawcut to length, not sheared, and free from burrs.
3. All dowels shall be securely placed perpendicular to joint surface both vertically and horizontally to promote free movement of the joint.

WATERPROOFING

WATERPROOFING SHALL BE TYPE 4 OR TYPE 6. TYPE 4 WATERPROOFING SHALL CONSIST OF A SELF-ADHERING POLYETHYLENE WITH A RUBBERIZED ASPHALT JOINT MATERIAL.

BUILTUP MEMBRANE OF RUBBERIZED ASPHALT FORMED ON A PREFORMED BOARD, MASTIC MATERIAL. TYPE 6 WATERPROOFING SHALL CONSIST OF A SELF-ADHERING POLYETHYLENE WITH A RUBBERIZED ASPHALT JOINT MATERIAL.

USING COLD APPLIED ASPHALTIC PRIMER.

BUILTUP MEMBRANE OF RUBBERIZED ASPHALT FORMED ON A PREFORMED BOARD, MASTIC MATERIAL.

1. WATERSTOP TYPE "C" OR "D"
2. WATERSTOP TYPE "C" OR "D"
BUESCHER LAKE
EXISTING KAYAK/CANOE RAMP
R9'-9"
R15'-0"
R29'-9"
R24'-9"
R24'-1"
R24'-9"
R11'-5"
2'-0"

BUESCHER LAKE
EXISTING HYDRANT (TO REMAIN)

BOAT LAUNCH TURNDOWN

CONSTRUCTION POOL EL = 340.00'

LOCALLY SOURCED RIVER ROCK HALF INCH MINUS GRAVEL (NO COMPACTION)

CONSTRUCTION POOL EL = 340.00'

NOTE: TREE PROTECTION WITH BOARDS STRAPPED TO TRUNKS REQUIRED FOR ALL TREES IN THE SHORELINE CONSTRUCTION AREA. REFER SHEET C8.03

STEP TREAD INDICATOR

MATERIAL SPECIFICATIONS

ROCK WALL BLOCK (WEST/EAST SHORELINE IMPROVEMENTS)
1) MIN. 8" HEIGHT X 24" WIDE CUT SANDSTONE BLOCK. LENGTH VARIES FROM 12" TO 30" MAXIMUM. ROCK PATTERN SHALL BE EQUIVALENT TO PATTERN SHOWN ON ROCK WALL ELEVATION.  
2) ROCK SAMPLES: PROVIDE THREE STONE SAMPLES, SIMILAR IN SIZE, TEXTURE AND COLOR FOR APPROVAL. COLOR TO MATCH EXISTING ROCK WALL.  
3) TURN-DOWN/CHAMFER ROCK WALL TO MATCH GRADE. MATCH GRADE WITH TOP OF WALL.  
4) SUPPLIER: LOCALLY SOURCED IN BASTROP OR APPROVED EQUAL. 

ROCK STEP BLOCK (WEST/EAST SHORELINE IMPROVEMENTS)
1) MIN. 8" HEIGHT X 24" WIDE CUT SANDSTONE BLOCK. LENGTH VARIES FROM 24" TO 30" MAXIMUM.  
2) ROCK SAMPLES: PROVIDE THREE STONE SAMPLES, SIMILAR IN SIZE, TEXTURE AND COLOR FOR APPROVAL. COLOR TO MATCH EXISTING ROCK WALL.  
3) TURN-DOWN/CHAMFER ROCK WALL TO MATCH GRADE. MATCH GRADE WITH TOP OF WALL.  
4) SUPPLIER: LOCALLY SOURCED IN BASTROP OR APPROVED EQUAL. 

DECOMPOSED GRANITE (WEST/EAST SHORELINE IMPROVEMENTS)
1) QUARTER INCH MINUS (-1/4") UNWASHED TEXAS GRANITE AGGREGATE AND CLAY FINE MIXTURE.  
2) SAMPLE: PROVIDE A ONE GALLON BAG OF MATERIAL FOR APPROVAL.  
3) SUPPLIER: COLLIER MATERIALS, INC. - MARBLE FALLS, TEXAS, OR APPROVED EQUAL. 

DECOMPOSED GRANITE BINDER (WEST/EAST SHORELINE IMPROVEMENTS)
1) STALOK ™ CONCENTRATE DECOMPOSED GRANITE BINDER.  
2) INSTALL PER MANUFACTURER SPECIFICATIONS.  
3) SUPPLIER: STABILIZER SOLUTIONS (STABILIZER SOLUTIONS.COM) OR APPROVED EQUAL. 

RIVER ROCK/NATIVE SOIL MIX (WEST/EAST SHORELINE IMPROVEMENTS)
1) HALF INCH MINUS (-1/2") RIVER ROCK.  
2) SAMPLE: PROVIDE A ONE GALLON BAG OF MATERIAL FOR APPROVAL.  
3) SUPPLIER: LOCALLY SOURCED IN BASTROP OR APPROVED EQUAL. 

MASONRY MORTAR (WEST/EAST SHORELINE & SPILLWAY PEDESTRIAN IMPROVEMENTS)
1) NON-SHRINK, SETTING/POINTING MORTAR.  
2) ALL MORTAR BEDS SHALL BE 1/2" MIN.  
3) MORTAR JOINTS ON FACE OF ROCK WALLS AND STEPS SHALL BE RECESSED A MINIMUM OF 1-1/2".  
4) SAMPLE: PROVIDE MORTAR SAMPLE, COLOR TO MATCH ROCK.  
5) SUPPLIER: CONTRACTORS CHOICE. 

NOTE: CONTRACTOR TO VERIFY LOCATION WITH TPWD.
NOTE: TREE PROTECTION WITH BOARDS STRAPPED TO TRUNKS REQUIRED FOR ALL TREES IN THE SHORELINE CONSTRUCTION AREA. REFER SHEET C3.03

MATERIAL SPECIFICATIONS | MOCK-UPS

NOTE: MATERIALS SPECIFIED ARE FOR USE AT THE WEST AND EAST SHORELINE AND WEST AND EAST SPILLWAY PEDESTRIAN IMPROVEMENT AREAS ONLY.

ROCK WALL BLOCK (WEST/EAST SHORELINE IMPROVEMENTS)
1) MIN. 8" HEIGHT X 24" WIDE CUT SANDSTONE BLOCK. LENGTH VARIES FROM 12" TO 30" MAXIMUM. ROCK PATTERN SHALL BE EQUIVALENT TO PATTERN SHOWN ON ROCK WALL ELEVATION. SAMPLE MUST BE SUBMITTED FOR APPROVAL. COLOR TO MATCH EXISTING ROCK WALL ELEVATION.

ROCK STEP BLOCK (WEST/EAST SHORELINE IMPROVEMENTS)
1) MIN. 8" HEIGHT X 24" WIDE CUT SANDSTONE BLOCK. LENGTH VARIES FROM 24" TO 30" MAXIMUM.

MASONRY MORTAR (WEST/EAST SHORELINE & SPILLWAY PEDESTRIAN IMPROVEMENTS)
1) NON-SHRINK, SETTING/POINTING MORTAR. ALL MORTAR BEDS SHALL BE 1/2" MIN. MORTAR JOINTS ON FACE OF ROCK WALLS AND STEPS SHALL BE RECESSED A MINIMUM OF 1-1/2". SAMPLE: PROVIDE MORTAR SAMPLE, COLOR TO MATCH ROCK. SUPPLIER: CONTRACTOR'S CHOICE.

DECOMPOSED GRANITE (WEST/EAST SHORELINE IMPROVEMENTS)
1) QUARTER INCH MINUS (-1/4") UNWASHED TEXAS GRANITE AGGREGATE AND CLAY FINE MIXTURE. SAMPLE: PROVIDE A ONE GALLON BAG OF MATERIAL FOR APPROVAL. SUPPLIER: COLLIER MATERIALS, INC. - MARBLE FALLS, TEXAS, OR APPROVED EQUAL.

DECOMPOSED GRANITE BINDER (WEST/EAST SHORELINE IMPROVEMENTS)
1) STALOK ™ CONCENTRATE DECOMPOSED GRANITE BINDER. INSTALL PER MANUFACTURER SPECIFICATIONS. SUPPLIER: STABILIZER SOLUTIONS (STABILIZERSOLUTIONS.COM) OR APPROVED EQUAL.

RIVER ROCK/NATIVE SOIL MIX (WEST/EAST SHORELINE IMPROVEMENTS)
1) HALF INCH MINUS (-1/2") RIVER ROCK. SAMPLE: PROVIDE A ONE GALLON BAG OF MATERIAL FOR APPROVAL. MIX RIVER ROCK WITH NATIVE SOIL FROM WALL/STEP EXCAVATION AT A RATIO OF 60% RIVER ROCK/40% NATIVE SOIL. SUPPLIER: LOCALLY SOURCED IN BASTROP OR APPROVED EQUAL.
Sheet Title: Sheet Number: 12/04/2020

Key Plan:

Note: Tree protection with boards strapped to trunks required for all trees in the shoreline construction area. Refer sheet C.03.

Masonary Mortar (West/East Shoreline & Spillway Pedestrian Improvements):
1. Mortar to be non-shrink, setting/pointing mortar.
2. All mortar beds shall be 1/2" minimum.
3. Mortar joints on face of rock walls and steps shall be recessed a minimum of 1-1/2".
4. Samples: Provide mortar sample, color to match rock.
5. Supplier: Contractor's choice.

Rock Step Landing Flagstone (West/East Spillway Pedestrian Improvements):
1. 2" thick min. x 12" to 24" wide random cut sandstone flagstone.
2. Rock samples: Provide three stone samples, similar in size, texture and color for approval. Color to match existing rock used.
3. Samples: Five mortar samples, 1" x 2" x 12" to be included with Rock samples. Samples will be removed and replaced at no expense to the owner.
4. Supplier: Locally sourced in Bastrop or approved equal.

Rocks Step & Nose Wall (West/East Shoreline Pedestrian Improvements):
1. The minimum height of rock walls shall be 6" minimum.
2. Rock walls at 3' x 6' height cut sandstone blocks. Density and wall to be field selected to match step slope.
3. Rock samples: Provide three stone samples, similar in size, texture and color for approval. Color to match existing rock used.
4. Rock cut: A 7' x 7' area for first 6' of rock wall. All rock on the exterior of the spillway improvement area is to be removed and replaced at no expense to the owner.
5. Supplier: Locally sourced or approved equal.

Rocks Step Landing Flagstone (West/East Spillway Pedestrian Improvements):
1. 2'-0" wide x 12'-0" length cut sandstone blocks. Length varies from 24" to 30" maximum.
2. Samples: Provide three stone samples, similar in size, texture and color for approval. Color to match existing rock used.
3. Samples: Five mortar samples, 1" x 2" x 12" to be included with Rock samples. Samples will be removed and replaced at no expense to the owner.
4. Supplier: Locally sourced in Bastrop or approved equal.

Rocks Step Landing Flagstone (West/East Spillway Pedestrian Improvements):
1. 2" thick min. x 12" to 24" wide random cut sandstone flagstone.
2. Rock samples: Provide three stone samples, similar in size, texture and color for approval. Color to match existing rock used.
3. Samples: Five mortar samples, 1" x 2" x 12" to be included with Rock samples. Samples will be removed and replaced at no expense to the owner.
4. Supplier: Locally sourced in Bastrop or approved equal.

Material Specifications:
- Rock Step and Nose Wall:
  - Minimum height of rock walls shall be 6" minimum.
  - Rock walls at 3' x 6' height cut sandstone blocks. Density and wall to be field selected to match step slope.
  - Rock samples: Provide three stone samples, similar in size, texture and color for approval. Color to match existing rock used.
  - Rock cut: A 7' x 7' area for first 6' of rock wall. All rock on the exterior of the spillway improvement area is to be removed and replaced at no expense to the owner.
  - Supplier: Locally sourced or approved equal.
- Spillway Rock Steps:
  - 2'-0" wide x 12'-0" length cut sandstone blocks. Length varies from 24" to 30" maximum.
  - Samples: Provide three stone samples, similar in size, texture and color for approval. Color to match existing rock used.
  - Samples: Five mortar samples, 1" x 2" x 12" to be included with Rock samples. Samples will be removed and replaced at no expense to the owner.
  - Supplier: Locally sourced in Bastrop or approved equal.
GRADING NOTES

1. It is understood that all areas are improved as shown on this plan. All grading on the area shown is for the purpose of stabilizing the improved area.

2. Proposed finished grades shall be maintained to allow 12% of impervious cover.

3. All grading on all areas is for the purpose of stabilizing the improved area.

4. The proposed finished grades are for the purpose of stabilizing the improved area.

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GRADING LEGEND

PROPOSED FINISHED GRADE

TOP OF WALL

TOP OF STEP

BOTTOM OF STEP

EXISTING GRADE

PROPOSED GRADE
1. Positive drainage shall be maintained on all surface areas within the scope of this project. Contractor shall take all necessary steps to ensure proper drainage. Inlet and outlet structures shall be added as required. Drainage features shall be designed and installed to prevent major surface erosion or water runoff into the lake.

2. All grading and drainage work shall be in accordance with the plans and specifications. The Texas Board of Architectural Examiners reserves the right to approve or disapprove any proposed changes or modifications.

3. All grading work shall be performed in a manner that does not damage existing structures or vegetation. No grading or construction equipment shall be operated within 10 feet of any existing structure.

4. The contractor shall perform all grading work in accordance with the approved plans and specifications. The Texas Board of Architectural Examiners reserves the right to approve or disapprove any proposed changes or modifications.

5. The contractor shall perform all grading work in accordance with the approved plans and specifications. The Texas Board of Architectural Examiners reserves the right to approve or disapprove any proposed changes or modifications.

6. The contractor shall perform all grading work in accordance with the approved plans and specifications. The Texas Board of Architectural Examiners reserves the right to approve or disapprove any proposed changes or modifications.

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NOTE: REFER GRADING PLAN FOR STEP AND WALL ELEVATIONS

BOAT LAUNCH TURNDOWN

TYPICAL ROCK WALL SECTION

TYPICAL ROCK STEP SECTION

TYPICAL ROCK WALL ELEVATION

TYPICAL ROCK SEATWALL SECTION

SECTION A-A'

SECTION B-B'

SECTION C-C'

NOTE: REFER GRADING PLAN FOR WALL ELEVATIONS

NOTE: REFER MATERIALS SPECIFICATIONS SHEETS L.01, 1.02 AND 1.03
The Texas Board of Architectural Examiners, P.O. Box 12337, Austin, Texas 78711, telephone (512) 305-8543, has jurisdiction over individuals licensed under the Landscape Architects Registration Law Article 249c, Vernon's Texas Civil Statutes.

No. Date Description

Revision

BUESCHER STATE PARK
TEXAS PARKS AND WILDLIFE
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Sheet Title: Sheet Number: 12/04/2020: PROJECT NUMBER:

BRIAN R. BINKOWSKI
STATE OF TEXAS
REGISTERED LANDSCAPE ARCHITECT
12.18.20

NOTE: REFER MATERIALS SPECIFICATIONS SHEETS L1.01, 1.02 AND 1.03

DETAILS

NOTE: REFER GRADING PLAN FOR STEP AND WALL ELEVATIONS

SECTION A-A'

SECTION B-B'

SECTION A-A'

SECTION B-B'

NOTE: REFER MATERIALS SPECIFICATIONS SHEETS L1.01, 1.02 AND 1.03