

TOM GREEN COUNTY CHRISTOVAL, TEXAS

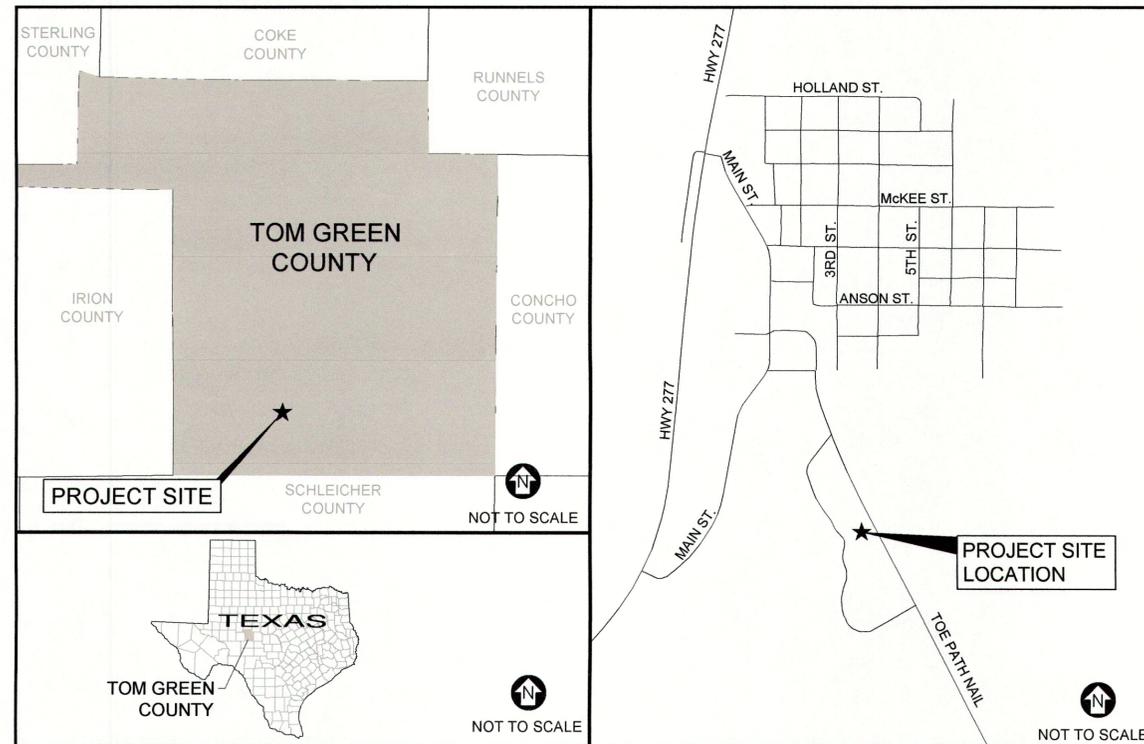
PUGH PARK TRAIL IMPROVEMENTS

AUGUST 2019



THOMAS J. FROMBERGER, P.E.
 LICENSED PROFESSIONAL ENGINEER No. 105564
 MRB GROUP, P.C.
 8834 N. CAPITAL OF TEXAS HWY, SUITE 147
 AUSTIN, TEXAS 78759
 TBPE FIRM REGISTRATION No. F-10615
 PHONE: (512) 436-8571

Thomas J. Fromberger
 8/28/19



SITE LOCATION MAP

31° 11' 02.42" N 100° 29' 43.01" W

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TBPE Firm Number: F-10615
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GENERAL NOTES:

- 1. ALL IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE MOST RECENT STANDARDS AND SPECIFICATIONS OF THE CITY OF SAN ANGELO.
2. THE CONTRACTOR SHALL PROVIDE SURVEY STAKEOUT FOR THE PROPOSED IMPROVEMENTS.
3. THE CONTRACTOR SHALL PROVIDE PUMPS, WELL POINTS OR OTHER METHODS OF DEWATERING EXCAVATIONS SO FIRM BEDDING AND FOUNDATION CONDITIONS CAN BE MAINTAINED.
...
18. ANY TREE CLEARING SHALL BE CONSIDERED INCIDENTAL TO PROJECT INCLUDE IN CONTRACTOR'S BID PRICE.

EROSION CONTROL NOTES

- 1. ALL SWALES AND SEDIMENTATION TRAPS MUST BE CLEANED AND MAINTAINED AT ALL TIMES BY CONTRACTOR TO ALLOW ADEQUATE DRAINAGE.
2. CONTRACTOR MUST PROTECT AT ALL TIMES ADJACENT PROPERTIES AND ROADWAYS FROM SEDIMENTATION, EROSION, RUNOFF, DEBRIS AND/OR ANY OTHER EFFECTS FROM THE SITE CONSTRUCTION.
...
9. SILT FENCE SHALL BE ERRECTED AT THE LIMITS OF ALL DISTURBED AREAS WHERE, IN THE JUDGEMENT OF THE ENGINEER, THERE IS THE POTENTIAL FOR FILTRATION OF STREAMS, STORM SEWERS, WETLANDS OR NEIGHBORING PROPERTIES, REGARDLESS OF WHETHER THE SILT FENCE IS INDICATED ON THE DRAWINGS.

CONSTRUCTION SEQUENCE:

- 1. INSTALL ALL EROSION CONTROL DEVICES AS NECESSARY, PRIOR TO EARTHWORK CONSTRUCTION. BASED ON FIELD PERFORMANCE AND WEATHER CONDITIONS, ADDITIONAL EROSION CONTROL DEVICES MAY BE REQUIRED. DISTURBANCE TO THE SITE TO BE LIMITED.
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WATER NOTES:

- 1. MATERIALS
ALL WATER MAIN MATERIALS SHALL BE ANSI/NSF-61.
POLYVINYL CHLORIDE (PVC) PIPE MUST BE WITH INTEGRAL BELL AND SPIGOT JOINTS; CLASS 200, DR 18; CONFORMING WITH THE LATEST REVISION OF NSI/AWWA C900 (FOR 4"-12" PIPES) OR C905 (FOR LARGER PIPE) STANDARD. INSTALLATION TO INCLUDE TRACER TAPE AS PER MANUFACTURER'S INSTRUCTIONS.
...
11. SERVICE INTERRUPTION - SHUTDOWN OF EXISTING WATER MAINS SHALL BE IN ACCORDANCE WITH THE LOCAL WATER DEPARTMENT. THE WATER DEPARTMENT MUST BE NOTIFIED IN ADVANCE OF ALL PROPOSED SHUTDOWNS IN ACCORDANCE WITH THEIR DIRECTION. WATER MUST BE TURNED BACK ON AS SOON AS POSSIBLE. ALL ENDS OF WATER MAINS MUST BE PROVIDED WITH ADEQUATE PLUG, BLOCK, AND BLOW-OFF AS INDICATED ON THE PLANS, AS PER DETAILS HEREIN.

TRAFFIC CONTROL NOTES

- 1. ALL TRAFFIC CONTROL DEVICES, SIGNS, BARRICADES, WARNING SIGNS, AND FLAGMAN OPERATIONS SHALL BE FURNISHED, PLACED, CONSTRUCTED, EXECUTED, AND MAINTAINED IN THE APPROPRIATE TYPES AND SIZES IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD), TEXAS DEPARTMENT OF TRANSPORTATION, OR AS DIRECTED BY THE ENGINEER. IF A CONFLICT ARISES, THEN THE TEXAS DEPT. OF TRANSPORTATION MANUAL SHALL CONTROL UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER.
2. INSTALLATION OF CONSTRUCTION BARRICADING AND SIGNING SHALL BE COORDINATED THROUGH THE ENGINEER.
...
26. WHERE POSTED SPEED LIMIT IS GREATER THAN OR EQUAL TO 55 MPH, SIGN SPACING SHOULD BE INCREASED TO 1500 ADVANCED WARNING.

TRAIL IMPROVEMENTS
PUGH RIVE PARK
CHRISTOVAL, TOM GREEN COUNTY

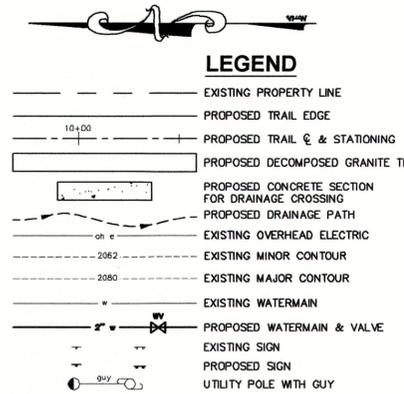
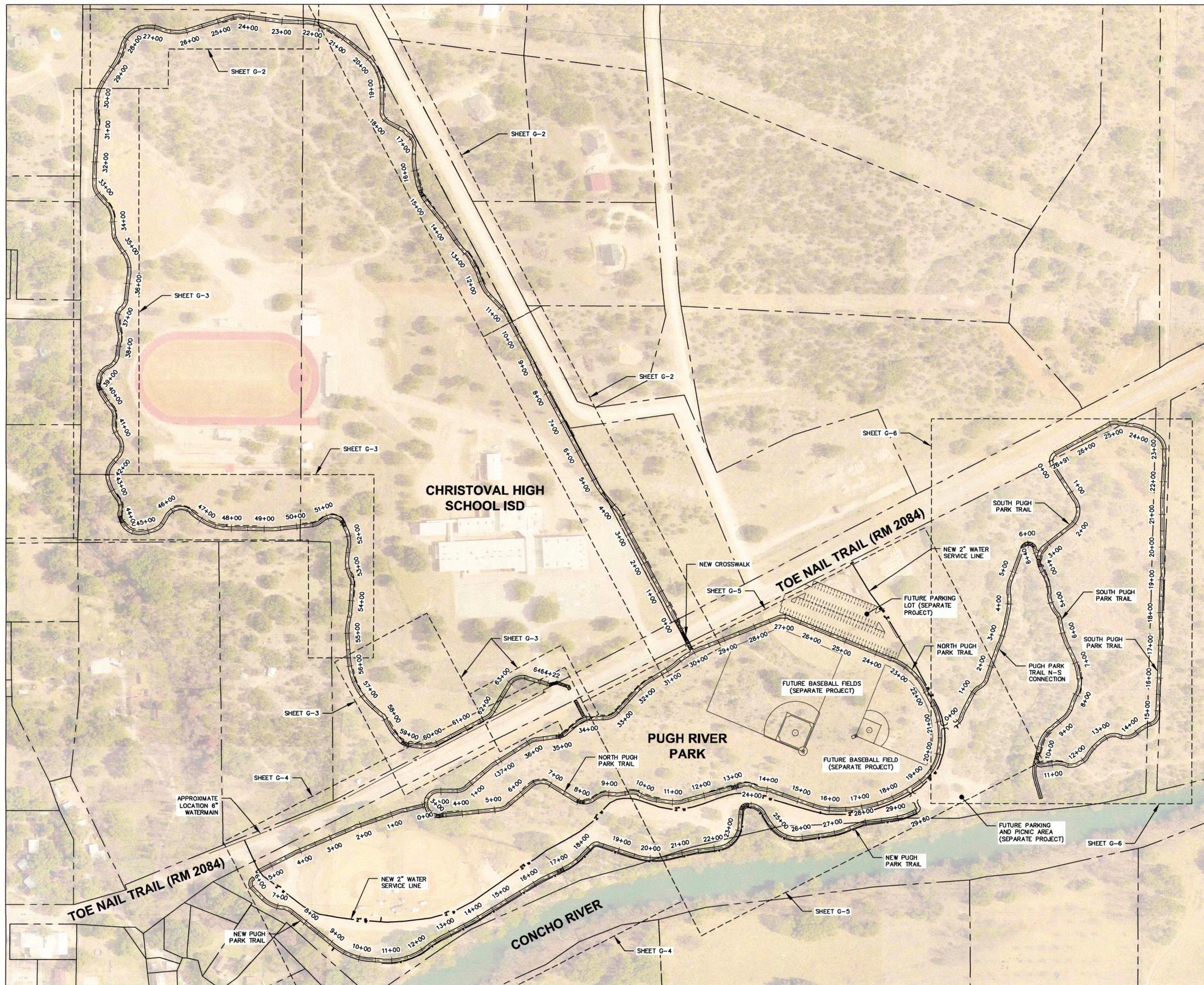
Project Title:
Drawn By: JPU
Checked By: TUF
Scale: N.T.S.
Date: 8/2019



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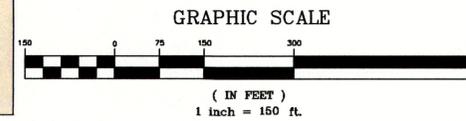
Sheet No. N-1
2 of 11
Project No. 2054.19001

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- TRAIL NOTES:**
- COUNTY STAFF HAS CONDUCTED A FIELD INVESTIGATION AND UTILIZED GPS TECHNOLOGY TO IDENTIFY THE ALIGNMENT OF THE TRAIL.
 - PARCEL INFORMATION SHOWN FROM COUNTY DATA. VERIFY IN FIELD PRIOR TO TRAIL CONSTRUCTION.
 - TRAIL ALIGNMENT, ENVIRONMENTAL FEATURES, AND STORMWATER DRAINAGE CROSSING ARE APPROXIMATELY SHOWN. CONTRACTOR TO FIELD VERIFY PRIOR TO CONSTRUCTION. CONTOURS SHOWN ARE FROM COUNTY LIDAR DATA.
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 - ALL EROSION CONTROL AND TREE PROTECTION ELEMENTS SHALL BE IN PLACE PRIOR TO CONSTRUCTION.
 - CONTOURS SHOWN ARE COUNTY LIDAR INFORMATION.
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No.	Revisions and Descriptions	By	Date

Project Title: **TRAIL IMPROVEMENTS PUGH RIVER PARK**
CHRISTOVAL, TOM GREEN COUNTY
 Drawing Title: **OVERALL TRAIL MAP**

Drawn By: JPJ
 Checked By: TJF
 Scale: 1" = 150'
 Date: 8/2019

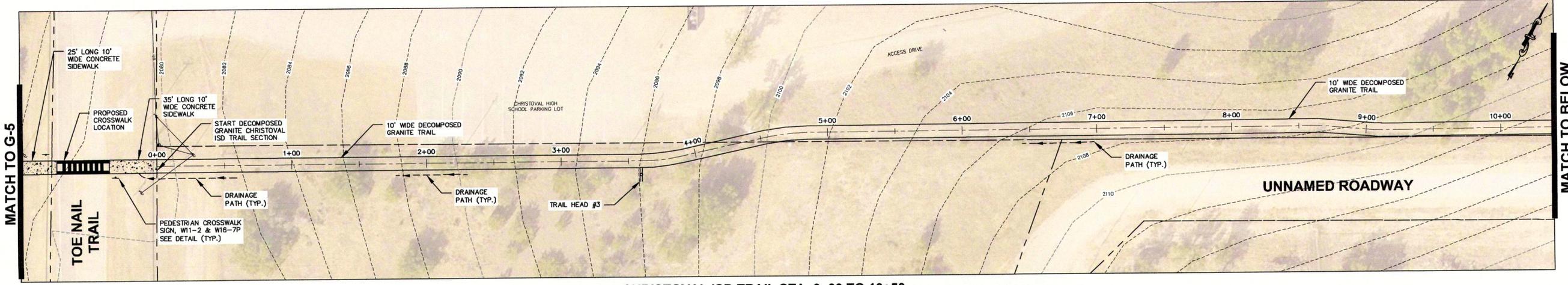


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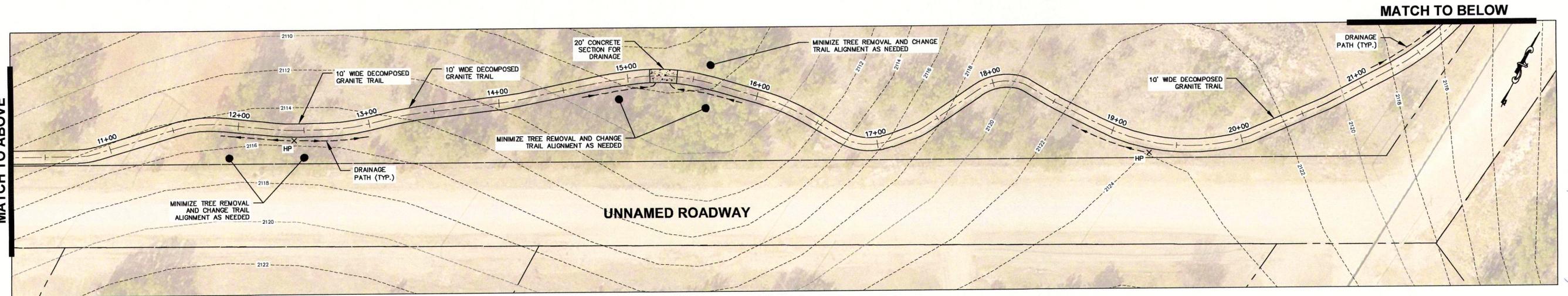
Sheet No. **G-1**
3 of **11**
 Project No. **2054.19001**

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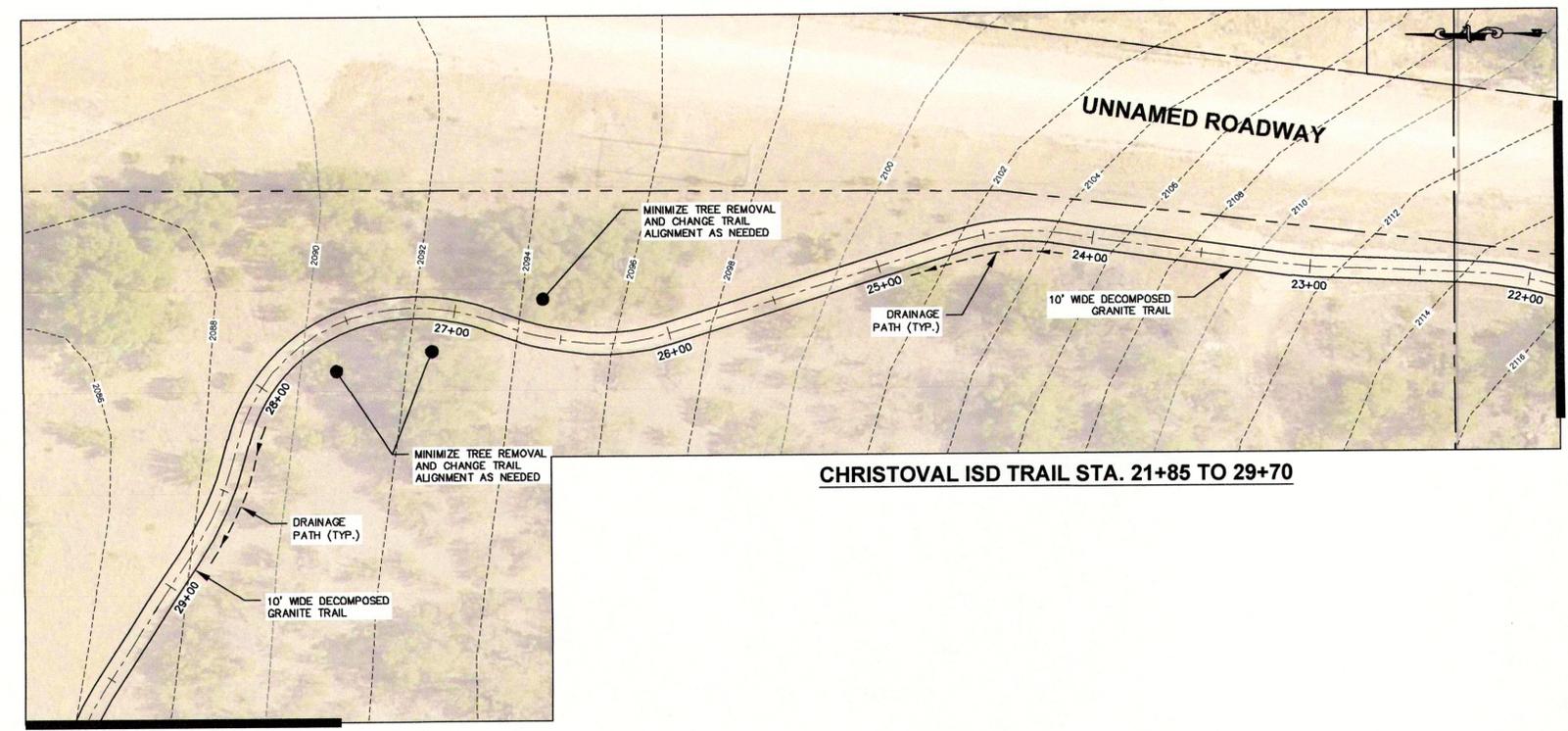
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CHRISTOVAL ISD TRAIL STA. 0+00 TO 10+50



CHRISTOVAL ISD TRAIL STA. 10+50 TO 21+85



CHRISTOVAL ISD TRAIL STA. 21+85 TO 29+70

TRAIL NOTES:

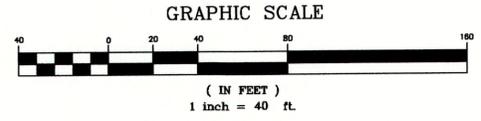
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LEGEND

- EXISTING PROPERTY LINE
- PROPOSED TRAIL EDGE
- PROPOSED TRAIL & STATIONING
- PROPOSED DECOMPOSED GRANITE TRAIL
- PROPOSED CONCRETE SECTION FOR DRAINAGE CROSSING
- PROPOSED DRAINAGE PATH
- EXISTING OVERHEAD ELECTRIC
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING WATERMAIN
- PROPOSED WATERMAIN & VALVE
- EXISTING SIGN
- PROPOSED SIGN
- UTILITY POLE WITH GUY



No.	Revisions and Descriptions	By	Date

Project Title:
**TRAIL IMPROVEMENTS
 PUGH RIVE PARK
 CHRISTOVAL, TOM GREEN COUNTY**

Drawing Title:
CHRISTOVAL ISD TRAIL STA 0+00 TO 29+70

Drawn By: JRU
 Checked By: TJF
 Scale: 1" = 40'
 Date: 8/2019

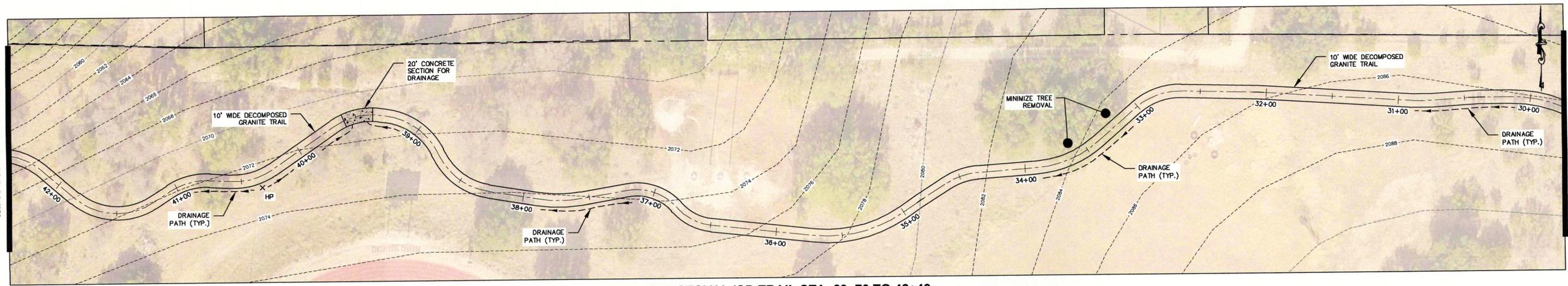


Thomas J. Frazier 8/28/19

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Sheet No. **G-2**
4 of **11**
 Project No. **2054.19001**

MATCH TO BELOW



MATCH TO SHEET G-2

CHRISTOVAL ISD TRAIL STA. 29+70 TO 42+40

LEGEND

- EXISTING PROPERTY LINE
- - - PROPOSED TRAIL EDGE
- 10+00 --- PROPOSED TRAIL C & STATIONING
- ▭ PROPOSED DECOMPOSED GRANITE TRAIL
- ▭ PROPOSED CONCRETE SECTION FOR DRAINAGE CROSSING
- - - PROPOSED DRAINAGE PATH
- - - EXISTING OVERHEAD ELECTRIC
- - - EXISTING MINOR CONTOUR
- - - EXISTING MAJOR CONTOUR
- - - EXISTING WATERMAIN
- 2" w --- PROPOSED WATERMAIN & VALVE
- EXISTING SIGN
- PROPOSED SIGN
- UTILITY POLE WITH GUY

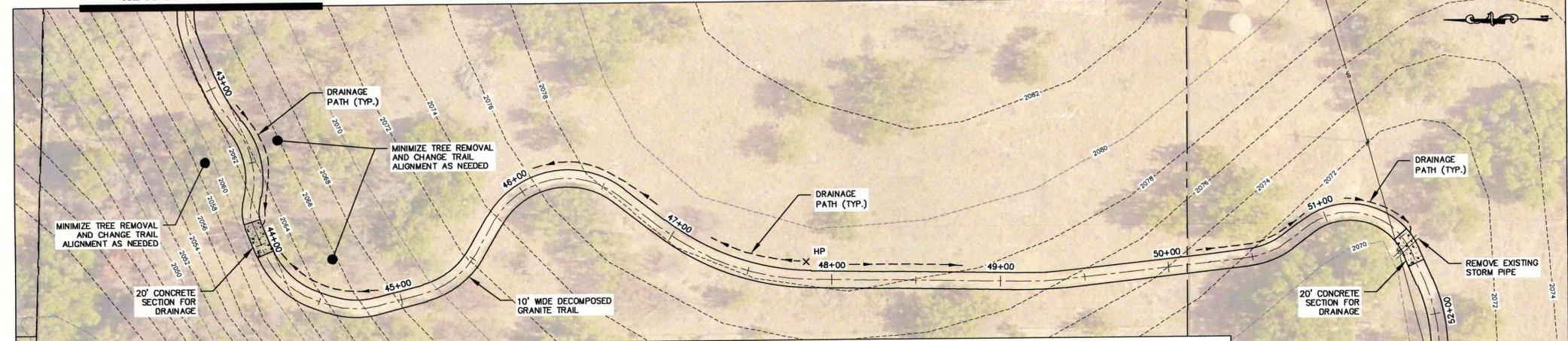
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CONSTRUCTION SEQUENCE:

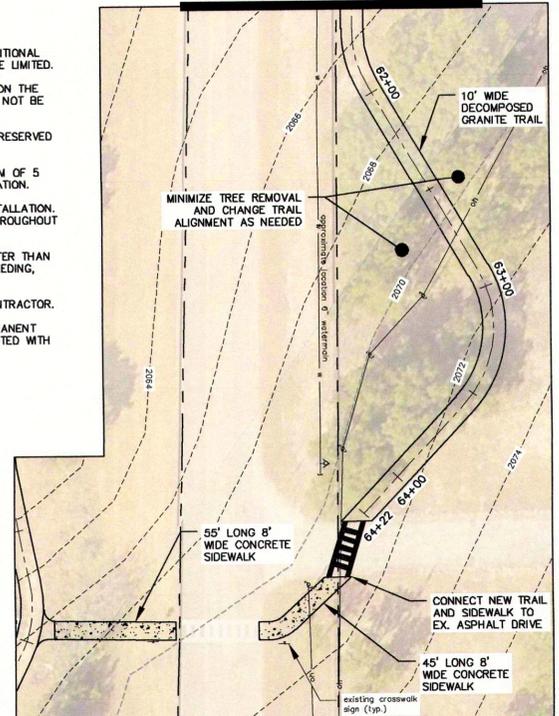
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MATCH TO ABOVE

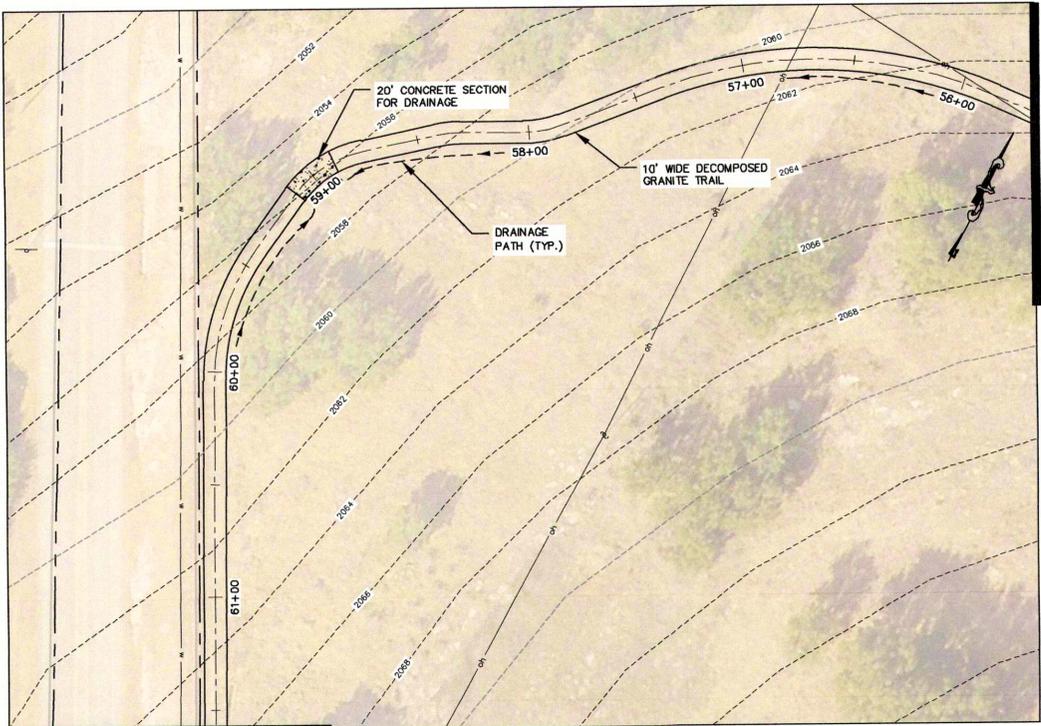


CHRISTOVAL ISD TRAIL STA. 42+40 TO 55+75

MATCH TO RIGHT

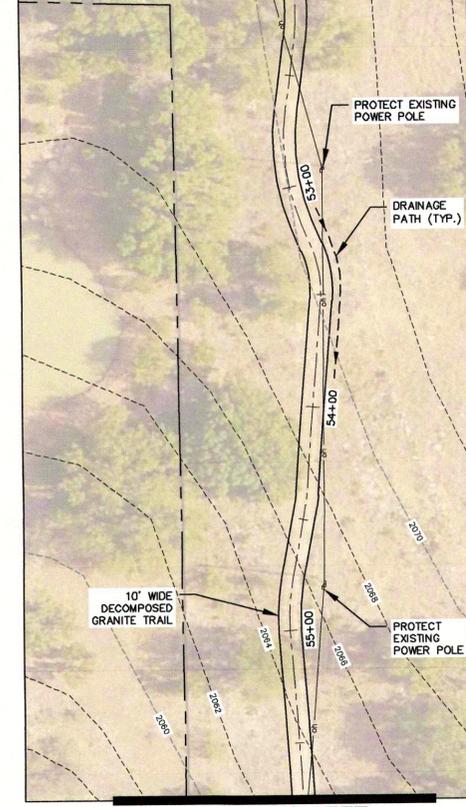


CHRISTOVAL ISD TRAIL STA. 61+60 TO 64+22



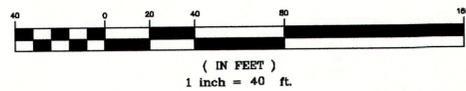
MATCH TO LEFT CHRISTOVAL ISD TRAIL STA. 55+75 TO 61+60

MATCH TO RIGHT



MATCH TO LEFT

GRAPHIC SCALE



No.	Revisions and Descriptions	By	Date

Project Title: **TRAIL IMPROVEMENTS PUGH RIVE PARK**
 Drawing Title: **CHRISTOVAL ISD TRAIL STA 29+70 TO 61+30**

Drawn By: **APJ**
 Checked By: **TB**
 Scale: **1" = 40'**
 Date: **8/2019**

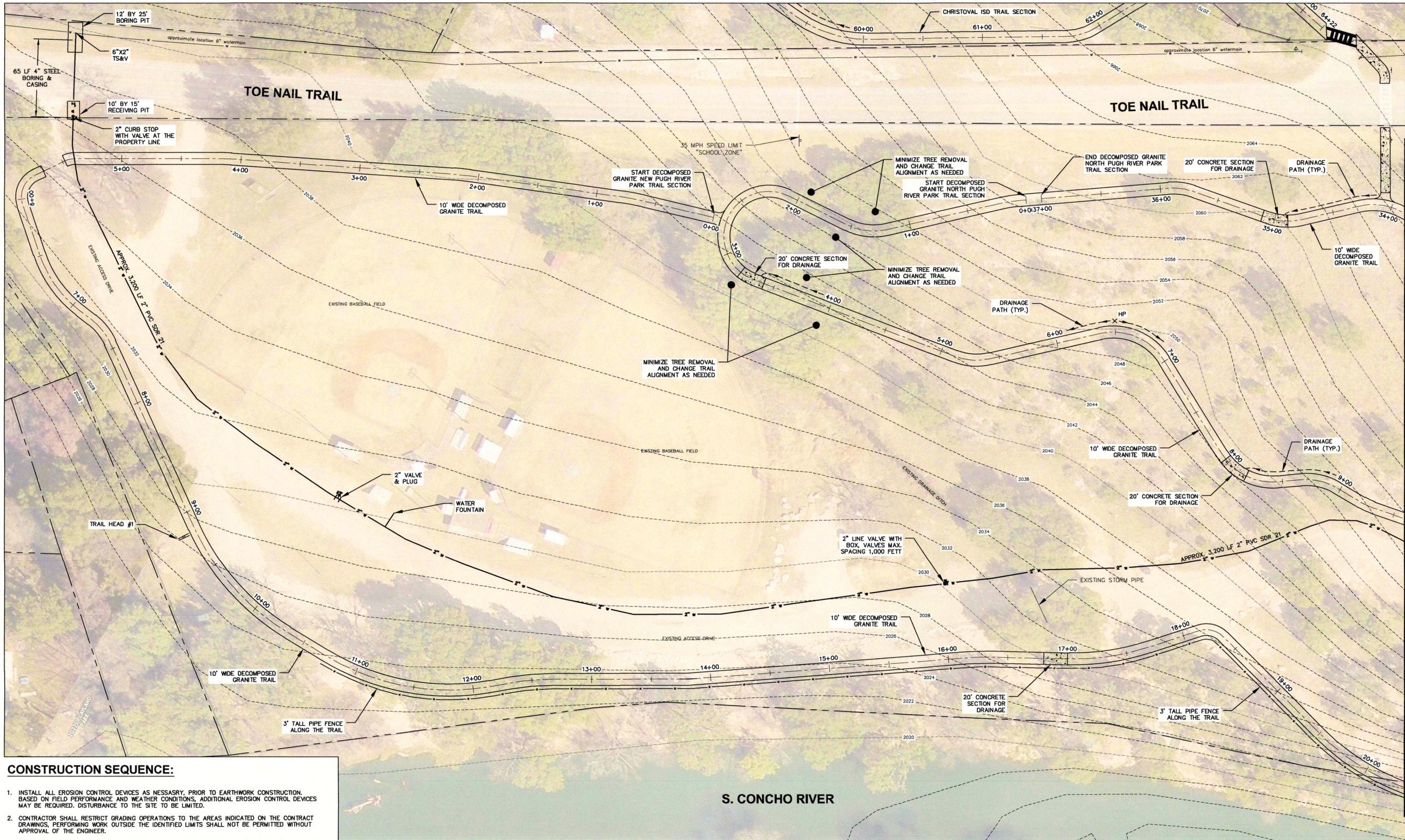


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Sheet No. **G-3**
5 of **11**

Project No. **2054.19001**

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CONSTRUCTION SEQUENCE:

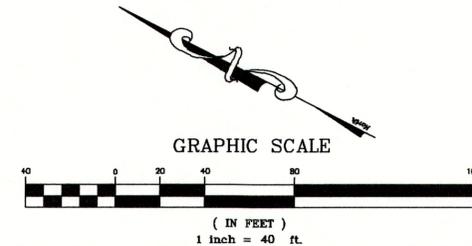
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LEGEND

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- - - - - PROPOSED TRAIL EDGE
- - - - - PROPOSED TRAIL @ & STATIONING
- ▭ PROPOSED DECOMPOSED GRANITE TRAIL
- ▭ PROPOSED CONCRETE SECTION FOR DRAINAGE CROSSING
- - - - - PROPOSED DRAINAGE PATH
- - - - - EXISTING OVERHEAD ELECTRIC
- - - - - EXISTING MINOR CONTOUR
- - - - - EXISTING MAJOR CONTOUR
- EXISTING WATERMAIN
- PROPOSED WATERMAIN & VALVE
- EXISTING SIGN
- PROPOSED SIGN
- UTILITY POLE WITH GUY



MATCH TO G-5

MATCH TO G-5

No.	Revisions and Descriptions	By	Date

**TRAIL IMPROVEMENTS
PUGH RIVER PARK
CHRISTOVAL, TOM GREEN COUNTY
PUGH RIVER PARK NORTH TRAIL MAP**

Project Title:
Drawn By: JPJ
Checked By: TB
Scale: 1" = 40'
Date: 8/2019



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Sheet No. **G-4**
6 of **11**
Project No. **2054.19001**

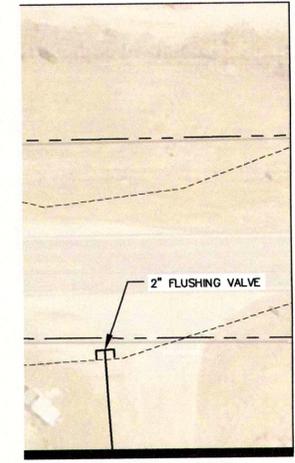
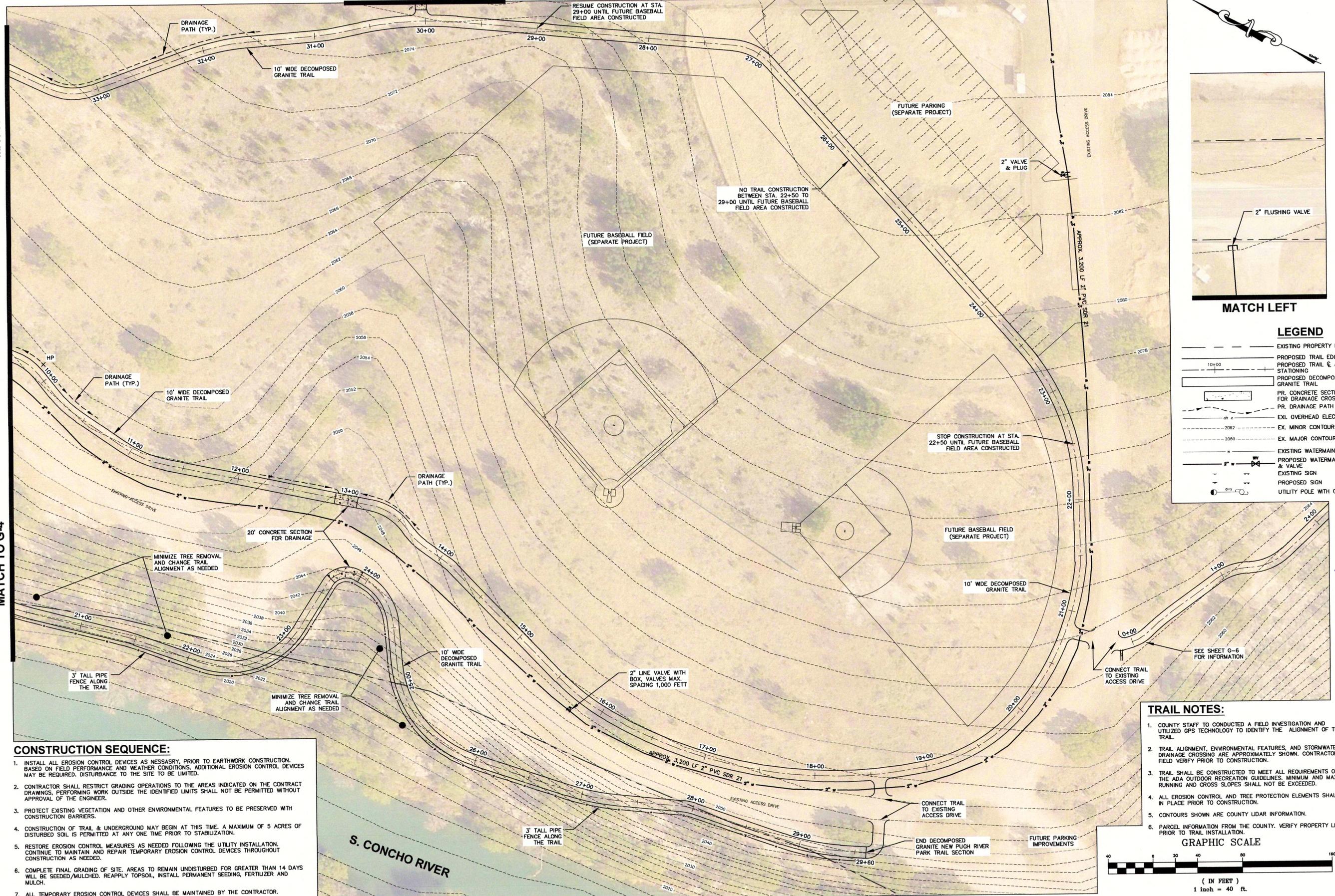
N:\2054_19001\000\dwg\Pugh Park - Trails Base.dwg, 8/28/2019 4:51:26 PM, jlanulis

MATCH TO G-4

MATCH TO G-4

MATCH TO G-2

MATCH RIGHT



LEGEND

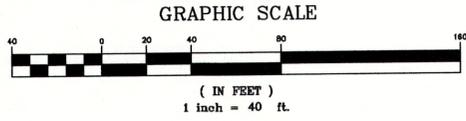
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	EX. MINOR CONTOUR
	EX. MAJOR CONTOUR
	EXISTING WATERMAIN
	PROPOSED WATERMAIN & VALVE
	EXISTING SIGN
	PROPOSED SIGN
	UTILITY POLE WITH GUY

CONSTRUCTION SEQUENCE:

- INSTALL ALL EROSION CONTROL DEVICES AS NECESSARY, PRIOR TO EARTHWORK CONSTRUCTION. BASED ON FIELD PERFORMANCE AND WEATHER CONDITIONS, ADDITIONAL EROSION CONTROL DEVICES MAY BE REQUIRED. DISTURBANCE TO THE SITE TO BE LIMITED.
- CONTRACTOR SHALL RESTRICT GRADING OPERATIONS TO THE AREAS INDICATED ON THE CONTRACT DRAWINGS. PERFORMING WORK OUTSIDE THE IDENTIFIED LIMITS SHALL NOT BE PERMITTED WITHOUT APPROVAL OF THE ENGINEER.
- PROTECT EXISTING VEGETATION AND OTHER ENVIRONMENTAL FEATURES TO BE PRESERVED WITH CONSTRUCTION BARRIERS.
- CONSTRUCTION OF TRAIL & UNDERGROUND MAY BEGIN AT THIS TIME. A MAXIMUM OF 5 ACRES OF DISTURBED SOIL IS PERMITTED AT ANY ONE TIME PRIOR TO STABILIZATION.
- RESTORE EROSION CONTROL MEASURES AS NEEDED FOLLOWING THE UTILITY INSTALLATION. CONTINUE TO MAINTAIN AND REPAIR TEMPORARY EROSION CONTROL DEVICES THROUGHOUT CONSTRUCTION AS NEEDED.
- COMPLETE FINAL GRADING OF SITE. AREAS TO REMAIN UNDISTURBED FOR GREATER THAN 14 DAYS WILL BE SEEDED/MULCHED, REAPPLY TOPSOIL, INSTALL PERMANENT SEEDING, FERTILIZER AND MULCH.
- ALL TEMPORARY EROSION CONTROL DEVICES SHALL BE MAINTAINED BY THE CONTRACTOR.
- EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL AN APPROVED PERMANENT COVER OF VEGETATION IS ESTABLISHED. REMOVAL OF DEVICES TO BE COORDINATED WITH THE OWNER, LOCAL MUNICIPALITY OR REPRESENTATIVE THEREOF.

TRAIL NOTES:

- COUNTY STAFF TO CONDUCTED A FIELD INVESTIGATION AND UTILIZED GPS TECHNOLOGY TO IDENTIFY THE ALIGNMENT OF THE TRAIL.
- TRAIL ALIGNMENT, ENVIRONMENTAL FEATURES, AND STORMWATER DRAINAGE CROSSING ARE APPROXIMATELY SHOWN. CONTRACTOR TO FIELD VERIFY PRIOR TO CONSTRUCTION.
- TRAIL SHALL BE CONSTRUCTED TO MEET ALL REQUIREMENTS OF THE ADA OUTDOOR RECREATION GUIDELINES. MINIMUM AND MAXIMUM RUNNING AND CROSS SLOPES SHALL NOT BE EXCEEDED.
- ALL EROSION CONTROL AND TREE PROTECTION ELEMENTS SHALL BE IN PLACE PRIOR TO CONSTRUCTION.
- CONTOURS SHOWN ARE COUNTY LIDAR INFORMATION.
- PARCEL INFORMATION FROM THE COUNTY. VERIFY PROPERTY LINE PRIOR TO TRAIL INSTALLATION.



No.	Revisions and Descriptions	By	Date

Project Title: **TRAIL IMPROVEMENTS PUGH RIVE PARK**
 CHRISTOVAL, TOM GREEN COUNTY
 Drawing Title: **PUGH RIVE PARK MIDDLE TRAIL MAP**

Drawn By: **apj**
 Checked By: **TJF**
 Scale: **1" = 40'**
 Date: **8/2019**



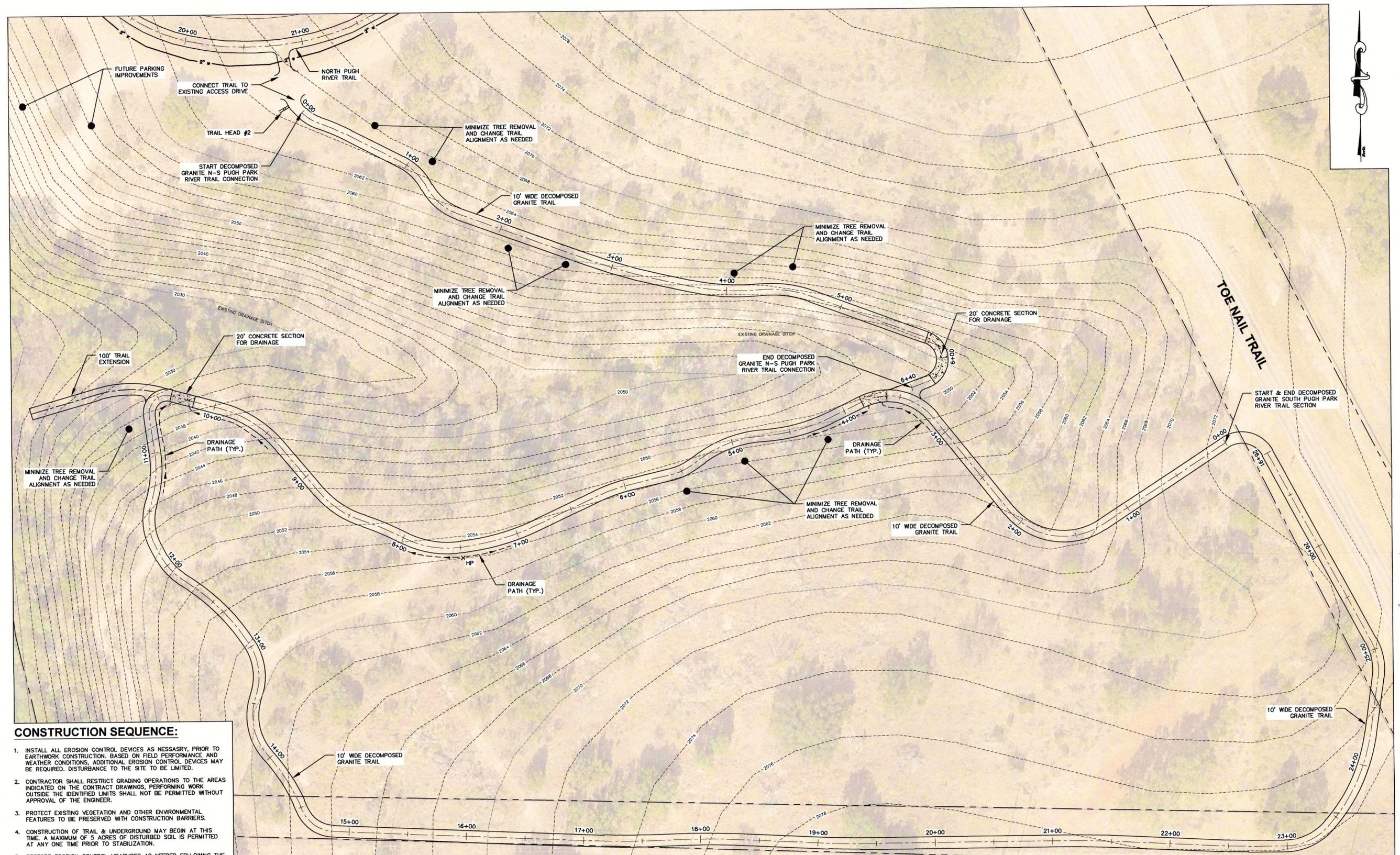
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Project No. **2054.19001**

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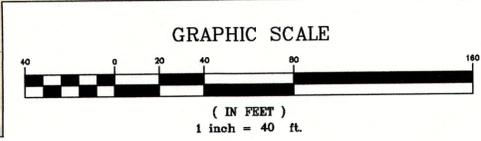


CONSTRUCTION SEQUENCE:

1. INSTALL ALL EROSION CONTROL DEVICES AS NECESSARY, PRIOR TO EARTHWORK CONSTRUCTION. BASED ON FIELD PERFORMANCE AND WEATHER CONDITIONS, ADDITIONAL EROSION CONTROL DEVICES MAY BE REQUIRED. DISTURBANCE TO THE SITE TO BE LIMITED.
2. CONTRACTOR SHALL RESTRICT GRADING OPERATIONS TO THE AREAS INDICATED ON THE CONTRACT DRAWINGS, PERFORMING WORK OUTSIDE THE IDENTIFIED LIMITS SHALL NOT BE PERMITTED WITHOUT APPROVAL OF THE ENGINEER.
3. PROTECT EXISTING VEGETATION AND OTHER ENVIRONMENTAL FEATURES TO BE PRESERVED WITH CONSTRUCTION BARRIERS.
4. CONSTRUCTION OF TRAIL & UNDERGROUND MAY BEGIN AT THIS TIME. A MAXIMUM OF 5 ACRES OF DISTURBED SOIL IS PERMITTED AT ANY ONE TIME PRIOR TO STABILIZATION.
5. RESTORE EROSION CONTROL MEASURES AS NEEDED FOLLOWING THE UTILITY INSTALLATION. CONTINUE TO MAINTAIN AND REPAIR TEMPORARY EROSION CONTROL DEVICES THROUGHOUT CONSTRUCTION AS NEEDED.
6. COMPLETE FINAL GRADING OF SITE. AREAS TO REMAIN UNDISTURBED FOR GREATER THAN 14 DAYS WILL BE SEEDED/MULCHED, REAPPLY TOPSOIL, INSTALL PERMANENT SEEDING, FERTILIZER AND MULCH.
7. ALL TEMPORARY EROSION CONTROL DEVICES SHALL BE MAINTAINED BY THE CONTRACTOR.
8. EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL AN APPROVED PERMANENT COVER OF VEGETATION IS ESTABLISHED. REMOVAL OF DEVICES TO BE COORDINATED WITH THE OWNER, LOCAL MUNICIPALITY OR REPRESENTATIVE THEREOF.

TRAIL NOTES:

1. COUNTY STAFF TO CONDUCTED A FIELD INVESTIGATION AND UTILIZED GPS TECHNOLOGY TO IDENTIFY THE ALIGNMENT OF THE TRAIL.
2. TRAIL ALIGNMENT, ENVIRONMENTAL FEATURES, AND STORMWATER DRAINAGE CROSSING ARE APPROXIMATELY SHOWN. CONTRACTOR TO FIELD VERIFY PRIOR TO CONSTRUCTION.
3. TRAIL SHALL BE CONSTRUCTED TO MEET ALL REQUIREMENTS OF THE ADA OUTDOOR RECREATION GUIDELINES. MINIMUM AND MAXIMUM RUNNING AND CROSS SLOPES SHALL NOT BE EXCEEDED.
4. ALL EROSION CONTROL AND TREE PROTECTION ELEMENTS SHALL BE IN PLACE PRIOR TO CONSTRUCTION.
5. CONTOURS SHOWN ARE COUNTY LIDAR INFORMATION.
6. PARCEL INFORMATION FROM THE COUNTY. VERIFY PROPERTY LINE PRIOR TO TRAIL INSTALLATION.



No.	Revisions and Descriptions	By	Date

Project Title: **TRAIL IMPROVEMENTS PUGH RIVE PARK CHRISTOVAL, TOM GREEN COUNTY**
 Drawing Title: **PUGH RIVE PARK SOUTH TRAIL MAP**

Drawn By: **UJ**
 Checked By: **TJF**
 Scale: **1" = 40'**
 Date: **8/2019**

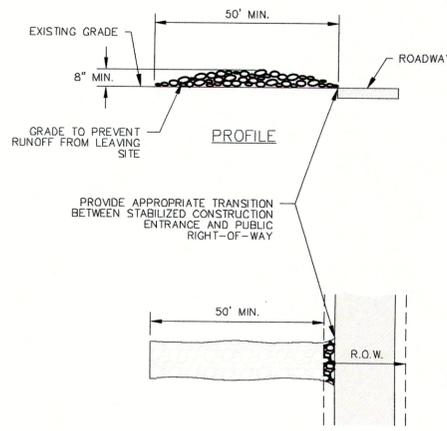


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Sheet No. **G-6**
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 Project No. **2054.19001**

Shores & Associates 8/13/19

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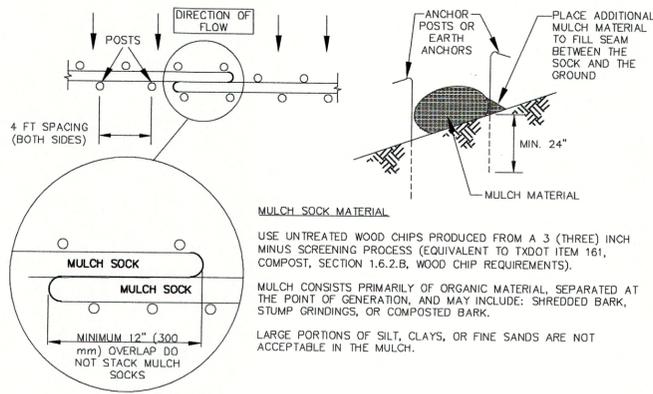


STABILIZED CONSTRUCTION ENTRANCE

N.T.S.

NOTES:

1. STONE SIZE: 3-5" OPEN GRADED ROCK.
2. LENGTH: AS EFFECTIVE BUT NOT LESS THAN 50'.
3. THICKNESS: NOT LESS THAN 8".
4. WIDTH: NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS/EGRESS.
5. WASHING: WHEN NECESSARY, VEHICLE WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
6. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AS WELL AS REPAIR AND CLEAN OUT OF ANY MEASURE DEVICES USED TO TRAP SEDIMENT. ALL SEDIMENT THAT IS SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
7. DRAINAGE: ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

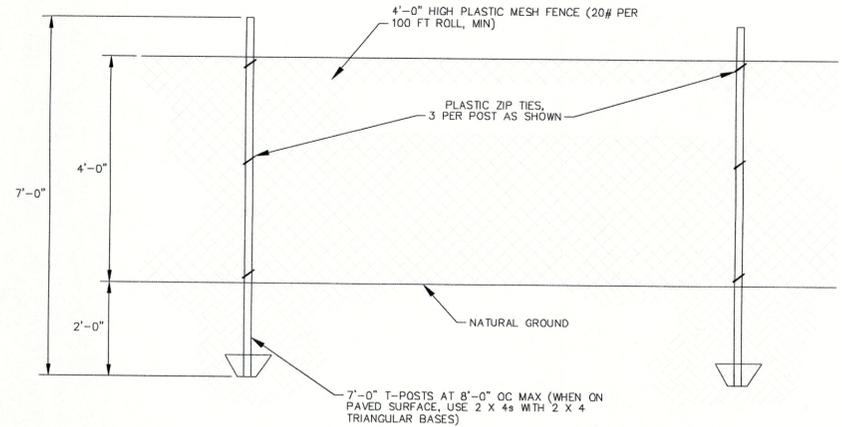


MULCH SOCK

N.T.S.

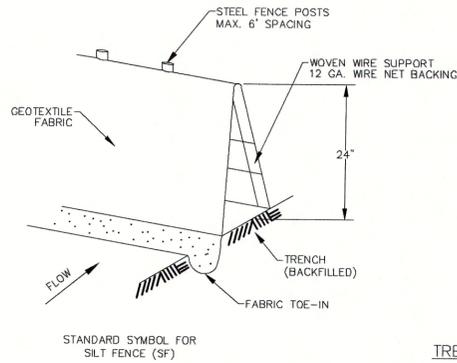
NOTES:

1. STEEL OR WOOD POSTS WHICH SUPPORT THE MULCH SOCK SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 600mm (24 inches). IF WOOD POSTS CANNOT ACHIEVE 600mm (24 inches) DEPTH, USE STEEL POSTS. EARTH ANCHORS ARE ALSO ACCEPTABLE.
2. THE TOE OF THE MULCH SOCK SHALL BE PLACED SO THAT THE MULCH SOCK IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. IN ORDER TO PREVENT WATER FROM FLOWING BETWEEN THE JOINTS OF ADJACENT ENDS OF MULCH SOCKS, LAP THE ENDS OF ADJACENT MULCH SOCKS A MINIMUM OF 300mm (12 inches).
3. MULCH MATERIAL MUST BE FREE OF REFUSE, PHYSICAL CONTAMINANTS, AND MATERIAL TOXIC TO PLANT GROWTH; IT IS NOT ACCEPTABLE FOR THE MULCH MATERIAL TO CONTAIN GROUND CONSTRUCTION DEBRIS, BIOSOLIDS, OR MANURE.
4. SOCK MATERIAL WILL BE 100% BIODEGRADABLE, PHOTODEGRADABLE, OR RECYCLABLE SUCH AS BURLAP, TWINE, UV PHOTOBIODEGRADABLE PLASTIC, POLYESTER, OR ANY OTHER ACCEPTABLE MATERIAL.
5. MULCH SOCKS SHOULD BE USED AT THE BASE OF SLOPES NO STEEPER THAN 2:1 AND SHOULD NOT EXCEED THE MAXIMUM SPACING CRITERIA PROVIDED IN CITY OF AUSTIN ENVIRONMENTAL CRITERIA MANUAL TABLE 1.4.5.1 FOR A GIVEN SLOPE CATEGORY.
6. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 150mm (6 inches). THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.



SAFETY FENCE DETAIL

N.T.S.



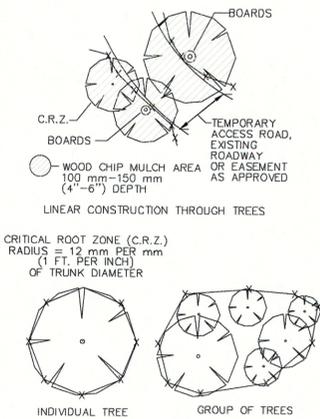
TRENCH CROSS SECTION

NOTES:

1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 18".
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CAN NOT BE TRENCHED INTO THE SURFACE (E.G. PAVEMENT), THE FABRIC FLAP SHALL BE WEIGHTED DOWN WITH WASHED GRAVEL ON UPHILL SIDE TO PREVENT FLOW UNDER FENCE.
3. THE TRENCH MUST BE A MINIMUM OF 6" DEEP AND 6" WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST.
5. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6". THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.
8. ALL EROSION CONTROL MEASURES MUST CONFORM TO TCEQ REQUIREMENTS FOR NON-POINT SOURCE POLLUTION.

SILT FENCE

N.T.S.

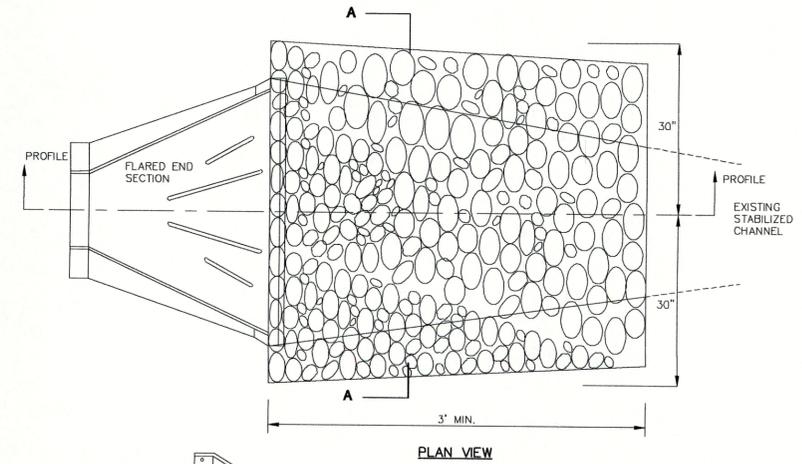
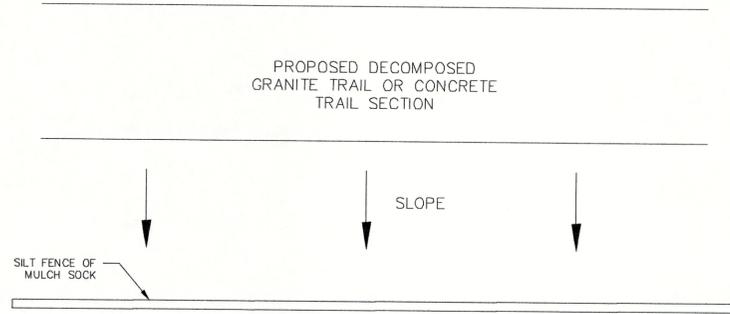


TREE PROTECTION DETAIL

N.T.S.

TYPICAL EROSION CONTROL TRAIL CONSTRUCTION

N.T.S.



RIP-RAP OUTLET PROTECTION DETAIL

N.T.S.

Project Title: **TRAIL IMPROVEMENTS PUGH RIVE PARK CHRISTOVAL, TOM GREEN COUNTY**

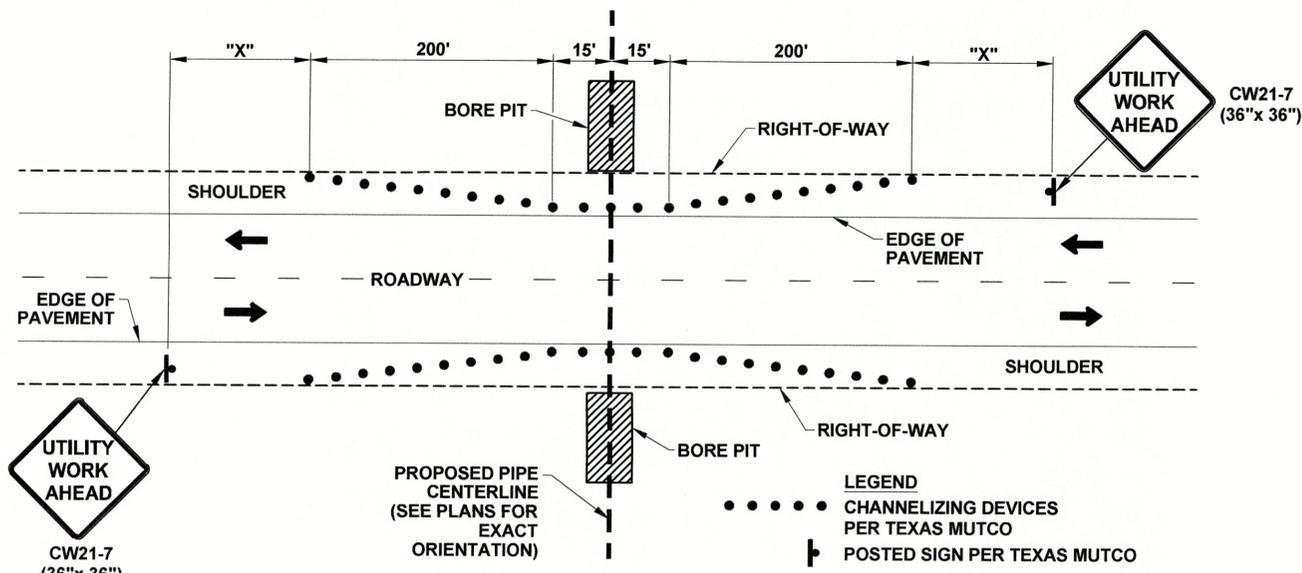
Drawing Title: **EROSION CONTROL DETAILS**

Drawn By: JPU
Checked By: TUF
Scale: AS SHOWN
Date: 8/2019

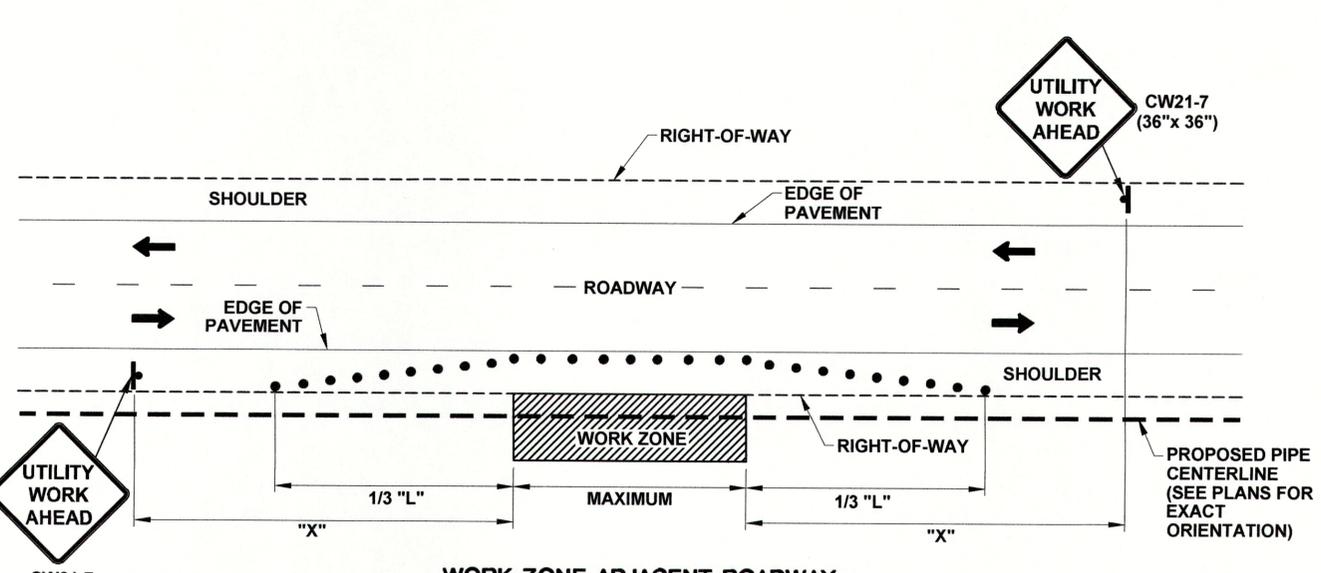
Revisions and Descriptions: No. By Date
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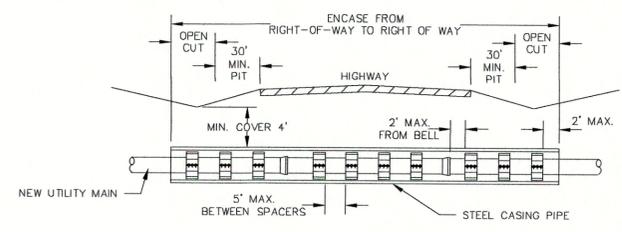
Sheet No. **D-2**
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Project No. **2054.19001**



BORE AT ROADWAY
N.T.S.



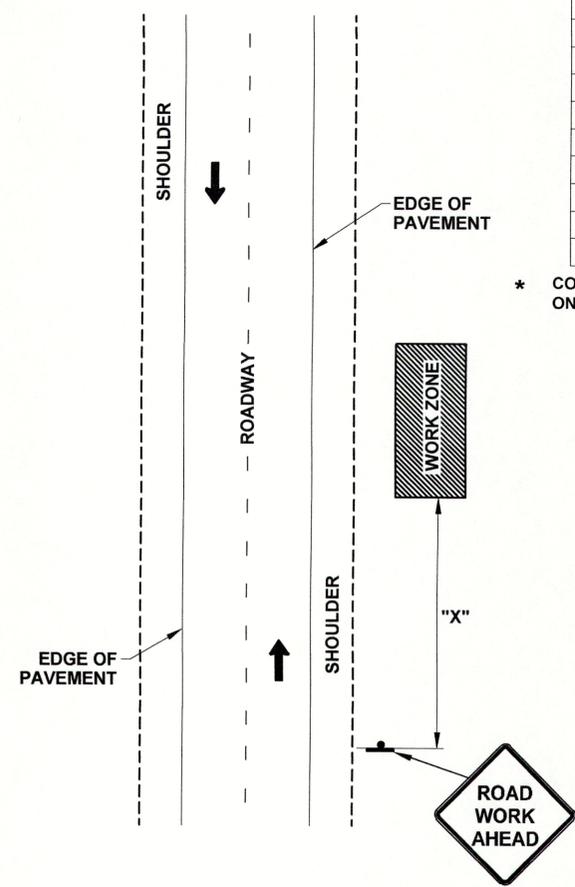
WORK ZONE ADJACENT ROADWAY
N.T.S.



HIGHWAY CROSSING
N.T.S.

NOTES:

1. ALL HIGHWAY CROSSING AND STREET CROSSING WHERE REQUIRED SHALL BE MADE BY BORING OR TUNNELING.
2. CASING PIPE SHALL BE MINIMUM 3/8" STEEL PIPE WITH WELDED JOINTS AND BE TWO NOMINAL PIPE SIZES LARGER THAN THE CARRIER PIPE.
3. CASING SHALL EXTENDED FROM EDGE OF RIGHT-OF-WAY TO EDGE OF RIGHT-OF-WAY OR AS SPECIFIED IN THE PLANS.
4. EACH END OF CASING SHALL BE SEALED WITH WATERTIGHT NON-SHRINK GROUT OR A MANUFACTURED WATERTIGHT SEAL.
5. ALL OVER CUTTING EX CESS OF 1" AROUND CASING PIPE SHALL BE PRESSURE GROUTED.
6. GROUT SHALL HAVE A MINIMUM STRENGTH OF 1,800 P.S.I. IN 28 DAYS WITH A SLUMP OF 10" OR GREATER.
7. HDPE CASING SPACERS SHALL BE PLACED AT A MAXIMUM 5' INTERVALS AND 2' FROM EACH BELL AND END OF CASING.
8. BORE PITS SHALL BE LOCATED AND CONFINED TO THE WORK EASEMENT AND SHALL BE CONSTRUCTED IN SUCH A MANNER AS TO NOT INTERFERE WITH HIGHWAY STRUCTURAL INTEGRITY OR SAFE TRAFFIC OPERATIONS. IF NECESSARY, SHORING SHALL BE USED.



WORK BEYOND THE SHOULDER
N.T.S.

POSTED SPEED *	FORMULA	MINIMUM DESIRABLE TAPER LENGTHS **			SUGGESTED MAXIMUM SPACING OF CHANNELIZING DEVICES		MINIMUM SIGN SPACING "X" DISTANCE	SUGGESTED LONGITUDINAL BUFFER SPACE "B"
		10' OFFSET	11' OFFSET	12' OFFSET	ON A TAPER	ON A TANGENT		
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L=WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

* CONVENTIONAL ROADS ONLY ** TAPER LENGTHS HAVE BEEN ROUNDED OFF. L=LENGTH OF TAPER(FT) W=WIDTH OF OFFSET(FT) S=POSTED SPEED(MPH)

MERGING TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICE
N.T.S.

ROAD CLASSIFICATION	POSTED SPEED (MPH)	SIGN SPACING "X" (FEET)
CONVENTIONAL HIGHWAY	25	100
	30	120
	35	160
	40	240
	45	320
	50	400
	55 *	500
	60 *	600
	65 *	700
EXPRESSWAY OR FREEWAY	70 *	800
	75 *	900
	80 *	1000
EXPRESSWAY OR FREEWAY	ALL SPEEDS	SEE TYPICAL APPLICATIONS**

* DISTANCE BETWEEN SIGNS SHOULD BE INCREASED TO HAVE 1500 FEET ADVANCE WARNING.
** DISTANCE BETWEEN SIGNS SHOULD BE INCREASED TO HAVE 1/2 MILE OR MORE ADVANCE WARNING.

SUGGESTED ADVANCE WARNING SIGN SPACING
N.T.S.

Project Title: **TRAIL IMPROVEMENTS PUGH RIVE PARK CHRISTOVAL, TOM GREEN COUNTY**

Project No. _____

Drawn By: **JPU** | Checked By: **TJF** | Scale: **N.T.S.** | Date: **8/2019**

Revisions and Descriptions: _____

By: _____

Date: _____

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11 of **11**
Project No. **2054.19001**