PART V

DRAWINGS

Plum Creek Watershed – Remedial Assistance REPAIRS

Floodwater Retarding Structure Site 16

Hays County, Texas

Drawing No. TX-EN-0751

Cover page + 6 sheets

United States Department of Agriculture
Natural Resources Conservation Service

PLUM CREEK WATERSHED

FLOODWATER RETARDING STRUCTURE SITE NO. 16 REPAIR

HAYS COUNTY, TEXAS

DRAINAGE AREA	3232	ACRES
TOTAL STORAGE	2330	AC. FT.
EFFECTIVE HEIGHT OF DAM	35	FEET

INDEX OF DRAWINGS

Sheet No.	Sheet Title
1	GENERAL PLAN
2	PLAN AND PROFILE
3	TYPICAL SECTION AND DETAIL
4	SECTIONS
5	FENCE DETAILS
6	STORMWATER POLLUTION PREVENTION PLAN

SPONSORED BY

HAYS COUNTY SOIL AND WATER CONSERVATION DISTRICT
CALDWELL - TRAVIS COUNTY SOIL AND WATER CONSERVATION DISTRICT
PLUM CREEK CONSERVATION DISTRICT

COOPERATING WITH

NATURAL RESOURCES CONSERVATION SERVICE
OF THE
U.S. DEPARTMENT OF AGRICULTURE

2019

STATE OF TEXAS
RICHARD BRIAN WENDLER
88767
LICENSED
PROFESSIONAL ENGINEER

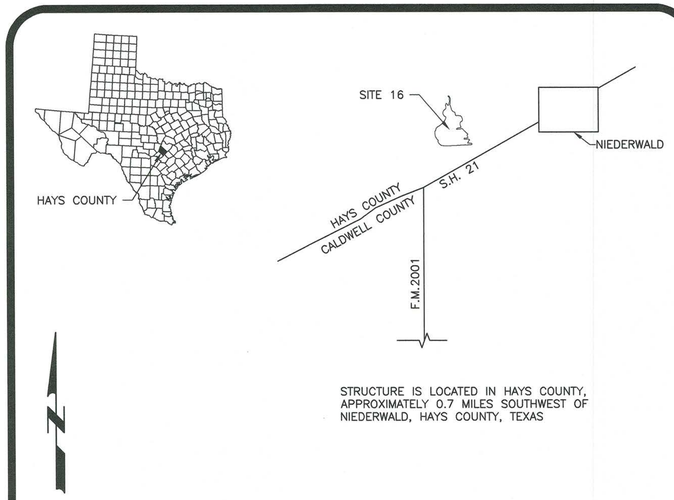
2/26/19

CONSTRUCTION DRAWINGS APPROVED

ENGINEERING JOB CLASS VI

STATE CONSERVATION ENGINEER, N.R.C.S.
TEMPLE, TEXAS

2/26/19
DATE



STRUCTURE IS LOCATED IN HAYS COUNTY, APPROXIMATELY 0.7 MILES SOUTHWEST OF NIEDERWALD, HAYS COUNTY, TEXAS

VICINITY MAP

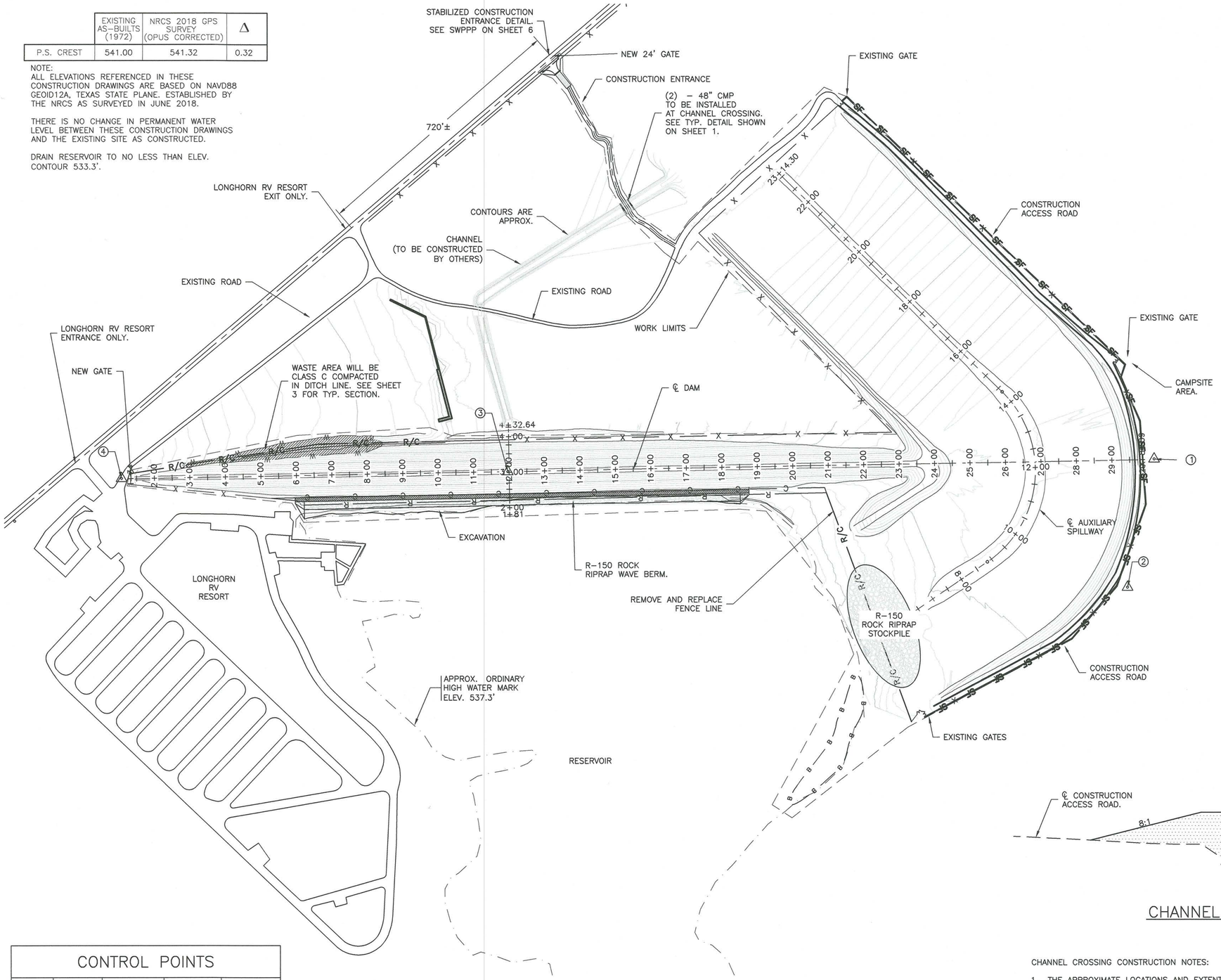
DRAWING NO. FN: Plum Creek 16 Site Repair.dwg
TX-EN-0751

	EXISTING AS-BUILTS (1972)	NRCS 2018 GPS SURVEY (OPUS CORRECTED)	Δ
P.S. CREST	541.00	541.32	0.32

NOTE:
ALL ELEVATIONS REFERENCED IN THESE CONSTRUCTION DRAWINGS ARE BASED ON NAVD88 GEOID12A, TEXAS STATE PLANE. ESTABLISHED BY THE NRCS AS SURVEYED IN JUNE 2018.

THERE IS NO CHANGE IN PERMANENT WATER LEVEL BETWEEN THESE CONSTRUCTION DRAWINGS AND THE EXISTING SITE AS CONSTRUCTED.

DRAIN RESERVOIR TO NO LESS THAN ELEV. CONTOUR 533.3'.



GENERAL PLAN

0 150 300 Feet

2 FT CONTOUR INTERVAL

CONTROL POINTS

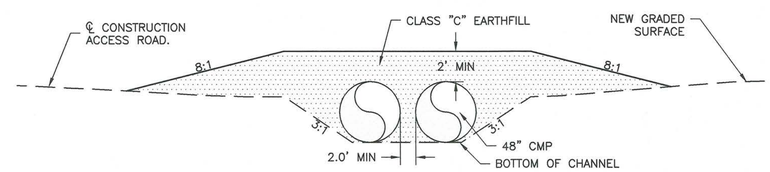
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
1	559.82	13914606.07	2365557.68	PRM2986G
2	N/A	13914959.58	2365632.33	BM2G
3	N/A	13914640.97	2367342.85	BM1G
4	N/A	13914659.44	2368409.28	PRM134G

LEGEND

——— ·—·—· ———	℄ AUXILIARY SPILLWAY & DAM
——— X ———	EXISTING FENCE DO NOT REMOVE
——— R/C ———	REMOVE & CONSTRUCT FENCE
——— C ———	CONSTRUCT NEW FENCE
——— R ———	REMOVE FENCE
— — — — — —	APPROX. LIMITS OF WORK AREA
——— B ———	APPROX. LIMITS OF BORROW AREA
——— W ———	APPROX. LIMITS OF WASTE AREA
——— CS ———	APPROX. LIMITS OF CAMPSITE
	R-150 ROCK RIPRAP
△	BENCHMARK

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE LIABLE FOR DAMAGE TO IMPROVEMENTS AND UTILITIES ALONG THE ACCESS ROUTE AND AT OR NEAR THE WORKSITE.
2. THE CONTRACTOR SHALL NOTIFY THE OWNERS OF ALL UTILITIES A MINIMUM OF THREE (3) DAYS IN ADVANCE OF INTENT TO PERFORM WORK IN THE VICINITY OF THE AFFECTED UTILITY. THE NOTICE SHALL BE IN WRITING AND A COPY SHALL BE FURNISHED TO THE CONTRACTING OFFICER. UTILITIES MAY EXIST AND NOT BE SHOWN ON THE CONSTRUCTION DRAWINGS. THE SITE SHALL BE CAREFULLY SCRUTINIZED FOR EVIDENCE OF UTILITIES. AT A MINIMUM, PRIOR TO ANY GROUND DISTURBANCE, THE TELEPHONE NUMBER 811 SHALL BE CALLED TO ASCERTAIN IF UNDERGROUND UTILITIES EXIST IN THE GENERAL WORK AREA. CALLING THIS TELEPHONE NUMBER WILL ONLY ASCERTAIN THE EXISTENCE OF UNDERGROUND UTILITIES OWNED BY COMPANIES THAT SUBSCRIBE TO THIS ORGANIZATION. THERE MAY BE OTHER UNDERGROUND UTILITIES IN THE WORK AREA.
3. THE APPROXIMATE LOCATIONS OF THE ACCESS ROAD, CONSTRUCTION CAMPSITE, STOCKPILE, BORROW AND WASTE AREAS ARE SHOWN. THE FINAL LOCATIONS OF THESE AREAS SHALL BE DESIGNATED AT THE TIME OF SHOWING OF THE WORKSITE TO PROSPECTIVE BIDDERS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, AND MAINTAINING ALL BARRICADES, WARNING SIGNS, TRAFFIC CONTROL DEVICES, ETC. NECESSARY TO CONTROL TRAFFIC AND PROVIDE FOR PUBLIC SAFETY AT THE ENTRANCE TO THE SITE (SEE CONSTRUCTION SPECIFICATION 9).
5. SUITABLE MATERIAL FROM EXCAVATIONS SHALL BE PROCESSED AND USED FOR THE EARTHFILL MATERIALS. UNSUITABLE MATERIALS SHALL BE PLACED IN A WASTE AREA OR OTHER AREAS APPROVED BY THE ENGINEER. EARTH MATERIALS NEEDED IN EXCESS OF REQUIRED EXCAVATIONS SHALL BE OBTAINED FROM THE DESIGNATED BORROW AREA(S). (SEE CONSTRUCTION SPECIFICATION 420).
6. A MINIMUM OF 6" OF TOPSOIL SHALL BE PLACED ON ALL EARTHWORK REPAIR AREAS UNLESS OTHERWISE NOTED (SEE CONSTRUCTION SPECIFICATION 26).
7. CONSTRUCTION ACTIVITIES SHALL NOT OCCUR OUTSIDE THE DESIGNATED WORK LIMITS, UNLESS OTHERWISE AUTHORIZED.
8. REMOVAL OR STRIPPING OF SOIL MATERIALS INCLUDING TOPSOIL AND LOW DENSITY OR DISPLACED MATERIALS WILL BE NECESSARY TO PROVIDE A SUITABLE WORKING AREA FOR THE CONSTRUCTION EQUIPMENT. THE APPROXIMATE LIMITS OF THE REMOVAL ARE SHOWN ON THE DRAWINGS. REMOVAL OF ADDITIONAL MATERIALS BEYOND THE LIMITS SHOWN MAY BE REQUIRED TO ENSURE A SUITABLE FOUNDATION EXISTS ON WHICH TO PLACE EARTHFILL AND/OR ROCK. (SEE CONSTRUCTION SPECIFICATION 420.)
9. THE EXISTING NATURAL GROUND SHOWN FOR THE SITE IS BASED ON SURVEYED CONDITIONS AS THEY EXISTED IN JUNE 2018. CHANGES IN SITE CONDITIONS PRIOR TO CONSTRUCTION MAY NECESSITATE ADJUSTMENTS TO THE GRADES AND ELEVATIONS SHOWN. THE FINAL GRADES AND ELEVATIONS FOR ALL WORKS OF IMPROVEMENTS SHOWN ARE APPROXIMATE AND SHALL BE ADJUSTED IN THE FIELD BY THE ENGINEER TO BEST FIT THE TOPOGRAPHY OF THE SITE, IF NECESSARY.
10. THE CONTROL POINTS SHOWN ARE TO BE USED TO ESTABLISH HORIZONTAL AND VERTICAL CONTROL.



CHANNEL CROSSING TYPICAL SECTION

(LOOKING DOWNSTREAM)
NOT TO SCALE

CHANNEL CROSSING CONSTRUCTION NOTES:

1. THE APPROXIMATE LOCATIONS AND EXTENTS OF THE CONSTRUCTION ACCESS ROAD AND THE CHANNEL ARE SHOWN IN THE DRAWINGS. THE NEW ACCESS ROAD SHALL BE STAKED BY THE ENGINEER.
2. THE MINIMUM COVERAGE ABOVE THE (2) 48 IN. CMP PIPES SHALL HAVE A MINIMUM OF 2 FT. COVERAGE.
3. THE CHANNEL WILL BE COMPLETED ON A DIFFERENT PROJECT NOT RELATED TO THIS ONE.
4. THE FRONT SLOPE AND BACK SLOPE OF ACCESS ROAD SHALL HAVE AN 8:1 SLOPE TO THE FIELD DETERMINED ELEVATION.

REVISIONS		
DATE	APPROVED	TITLE

STATE OF TEXAS RICHARD BRIAN WEBBER 88767 LICENSED PROFESSIONAL ENGINEER 2/26/19

DESIGNED BY: JJH,GEG,SMD
DRAWN BY: SMD
CHECKED BY: GEG, KSG
FILE NAME: Plum Creek 16 Site Repair.dwg
DATE CHECKED: 1/9/2019

GENERAL PLAN

FLOODWATER RETARDING STRUCTURE SITE NO. 16 REPAIR
PLUM CREEK WATERSHED
IN
HUNT COUNTY, TEXAS

USDA United States Department of Agriculture
Natural Resources Conservation Service

DRAWING NO. TX-EN-0751

SHEET NO. 1 OF 6

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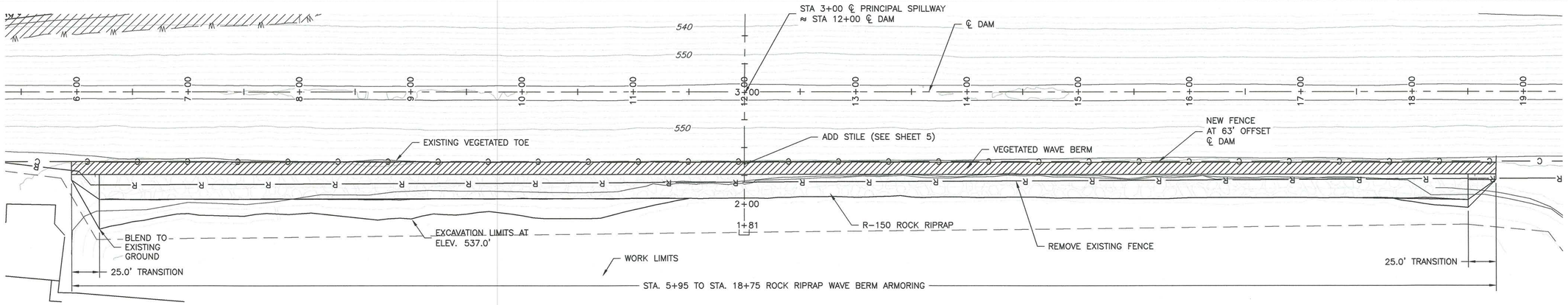


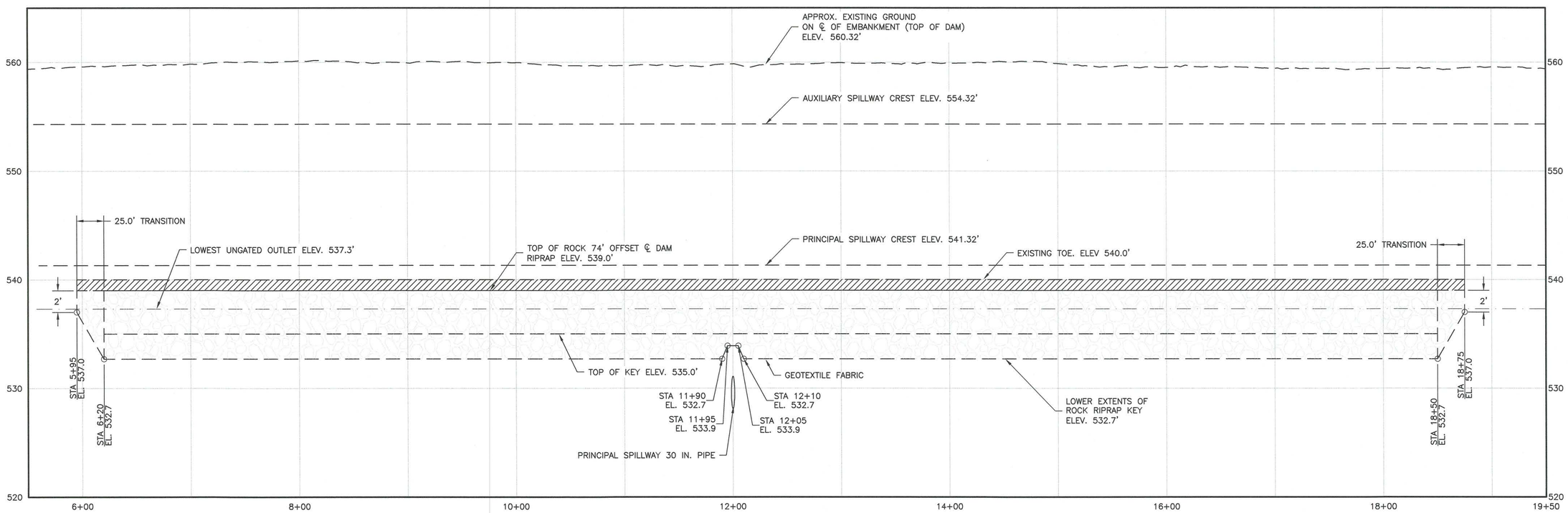
GENERAL PLAN

0 50 100 FEET

2 FT CONTOUR INTERVAL

LEGEND

- ℄ DAM
- C — CONSTRUCT NEW FENCE
- R — REMOVE FENCE
- R/C — REMOVE & CONSTRUCT FENCE
- APPROX. LIMITS OF WORK AREA
- VEGETATED WAVE BERM
- R-150 ROCK RIPRAP



PROFILE VIEW

H = 0 50 100 FEET

V = 0 5 10

REVISIONS		
DATE	APPROVED	TITLE

STATE OF TEXAS
RICHARD BRIAN WEMBERG
88767
LICENSED
PROFESSIONAL ENGINEER
2/26/19

DESIGNED BY:	JJH,GEG,SMD
DRAWN BY:	SMD
CHECKED BY:	KSG, SWI
FILE NAME:	Plum Creek 16 Site Repair.dwg
DATE CHECKED:	2/26/2019

PLAN AND PROFILE

FLOODWATER RETARDING STRUCTURE SITE NO. 16 REPAIR

PLUM CREEK CREEK WATERSHED

IN

HAYS COUNTY, TEXAS

United States Department of Agriculture

Natural Resources Conservation Service

DRAWING NO. TX-EN-0751

SHEET NO. 2

OF 6

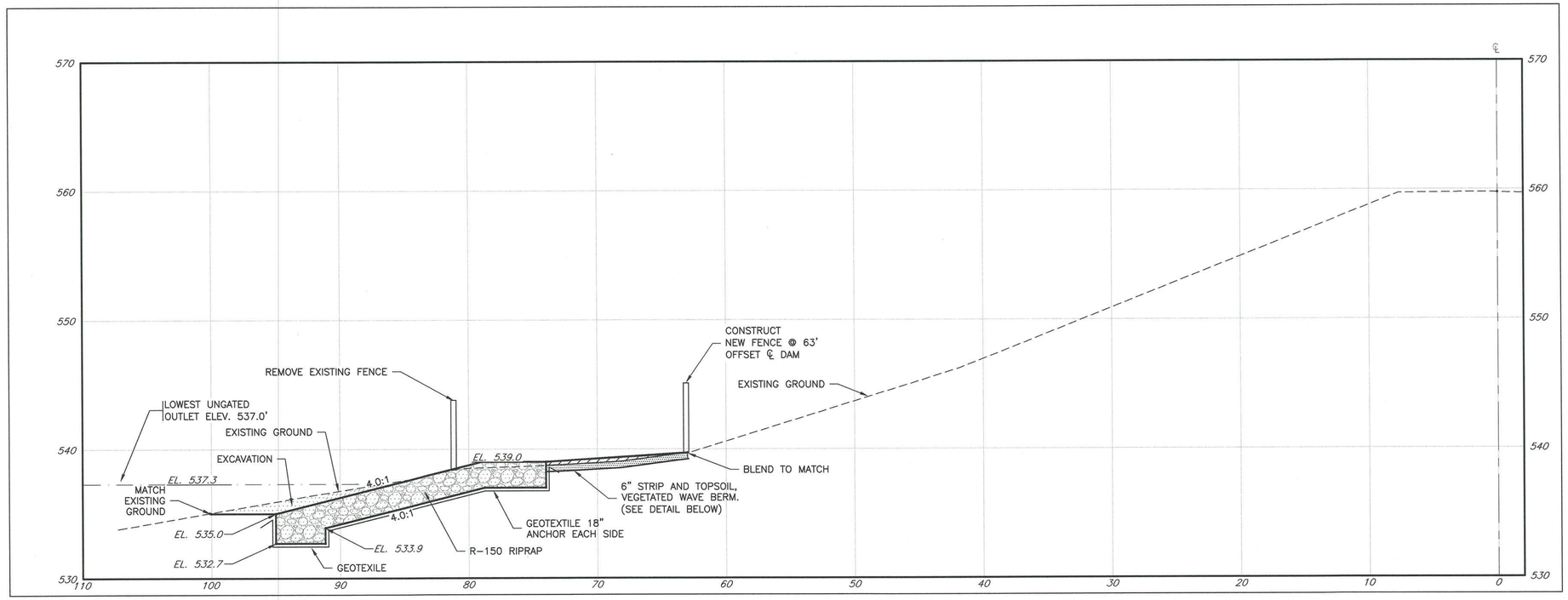
V:\Watershed Project Designs\Watershed Site Repairs\Plum Creek\Plum Creek 16 Repair\DWG\Plum Creek 16 Site Repair.dwg

SIZE OF ROCK POUNDS	% SMALLER BY WEIGHT
300	100
150	50–100
60	15–50
20	0–15

REFERENCE A.S.T.M. D 6092 (R–150)

ROCK RIPRAP NOTES:
1. SPALLS AND ROCK DUST THAT PASS A 3" SIEVE SHALL CONSIST OF LESS THAN 5 PERCENT BY WEIGHT.
2. ROCK PLACED AGAINST CONCRETE WORKS SHALL BE PLACED CAREFULLY TO AVOID DAMAGE.
3. ALL ROCK RIPRAP REQUIRED SHALL COMPLY WITH THE GRADATION ABOVE (SEE CONSTRUCTION SPECIFICATION 61, AND MATERIAL SPECIFICATION 523.)

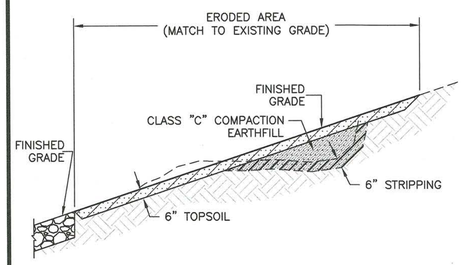
GRADATION OF ROCK RIPRAP



ARMORED TOE AND VEGETATED WAVE BERM CONSTRUCTION NOTES:
1. CONSTRUCT THE ROCK ARMORED WAVE BERM FROM BETWEEN STA. 5+95 AND STA. 18+75.
2. PLACE GEOTEXTILE BETWEEN THE ROCK RIPRAP AND THE APPROVED SUBGRADE. GEOTEXTILE SHALL BE NON–WOVEN AND MEET THE REQUIREMENTS OF CONSTRUCTION SPECIFICATION 95 AND MATERIAL SPECIFICATION 592.
3. ANCHOR THE GEOTEXTILE TO THE TOP AND BOTTOM OF THE SLOPE AS SHOWN.
4. INCORPORATE MINIMUM 6" OF TOPSOIL IN THE VEGETATED WAVE BERM SECTION.
5. GEOTEXTILE AND ROCK RIPRAP MAY BE PLACED IN WET CONDITIONS.
6. DO NOT DRAW WATER LEVEL LOWER THAN ELEV. 533.3'

TYPICAL WAVE BERM SECTION

0 5 10 FEET

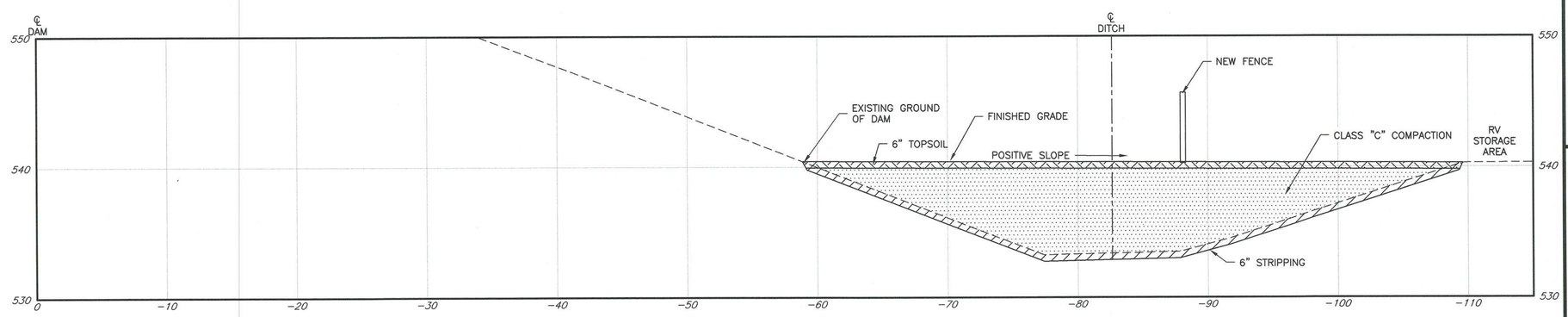


CONSTRUCTION NOTES:

1. THE APPROXIMATE LOCATIONS AND EXTENTS OF THE VEGETATED WAVE BERM ERODED AREAS TO BE REPAIRED ARE SHOWN IN THE DRAWINGS. THE FINAL EXTENTS SHALL BE STAKED BY THE ENGINEER.
2. CONSTRUCTION ACTIVITIES SHALL BE CONDUCTED TO MINIMIZE IMPACTS TO THE SURROUNDING VEGETATION. CARE SHALL BE TAKEN TO ENSURE THAT THE MINIMUM CONSTRUCTION FOOTPRINT REQUIRED TO ACCOMPLISH THE JOB IS USED AND DAMAGE TO THE SURROUNDING VEGETATION IS KEPT TO A MINIMUM.
3. THE VEGETATED WAVE BERM ERODED AREAS SHALL BE REPAIRED IN ACCORDANCE WITH CONSTRUCTION SPECIFICATION 420, BRINGING THE FINISHED SURFACE UP TO MATCH THE EXISTING GRADE AS SHOWN.

VEGETATED WAVE BERM ERODED AREAS – DETAIL

NOT TO SCALE



WASTE AREA – TYPICAL SECTION

0 5 10 FEET

NOTE:
1. CLASS "C" COMPACTION WILL CONSIST OF THE EXCAVATED MATERIAL FROM ROCK RIPRAP AREA. NO ADDITIONAL FILL WILL BE USED.
2. FILL FROM APPROX. STA 2+75 TO STA 8+00. (℄ DAM.)
3. FULL DEPTH VARIES. FILL TO MATCH EXISTING R.V. STORAGE PAD ELEVATIONS.
4. AFTER STA 8+00, SLOPE FILL IN DITCH TO EXISTING GROUND AT A 6:1 SLOPE.
5. MAINTAIN A POSITIVE SLOPE FROM DOWNSTREAM SLOPE OF DAM TO R.V. STORAGE PAD.
6. SEE SHEET 1 FOR LOCATION OF WASTE AREA.
7. FINAL LIMITS MAY BE ADJUSTED TO ENSURE THERE IS ADEQUATE MATERIAL TO FILL THE EXISTING DITCH TO TOP OF R.V. STORAGE AREA. PROVIDE POSITIVE DRAINAGE AWAY FROM THE EMBANKMENT AS SHOW.

REVISIONS		
DATE	APPROVED	TITLE

STATE OF TEXAS — RICHARD BRIAN WEMBERG — 88767 — LICENSED PROFESSIONAL ENGINEER — 2/26/19

DESIGNED BY:	JJH,GEG,SMD
DRAWN BY:	SMD
CHECKED BY:	KSG, SWI
FILE NAME:	Plum Creek 16 Site Repair.dwg
DATE CHECKED:	2/26/2019

TYPICAL SECTION AND DETAIL

FLOODWATER RETARDING STRUCTURE SITE NO. 16 REPAIR
PLUM CREEK WATERSHED
IN
HAYS COUNTY, TEXAS

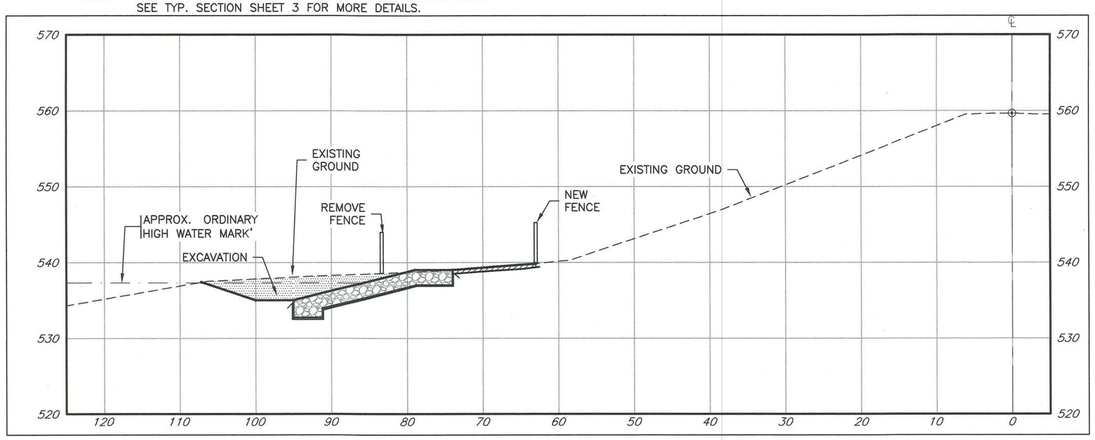
USDA United States Department of Agriculture
Natural Resources Conservation Service

DRAWING NO. TX–EN–0751

SHEET NO. 3 OF 6

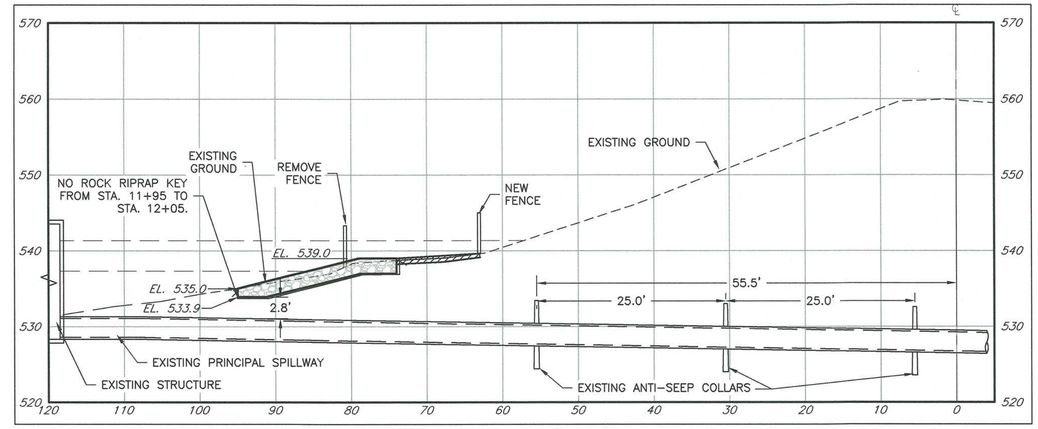
V:\Watershed Project Designs\Watershed Site Repairs\Plum Creek\Plum Creek 16 Repair\DWG\Plum Creek 16 Site Repair.dwg

NOTE: SECTIONS ARE FOR BASIC INFORMATIONAL PURPOSES ONLY.
SEE TYP. SECTION SHEET 3 FOR MORE DETAILS.



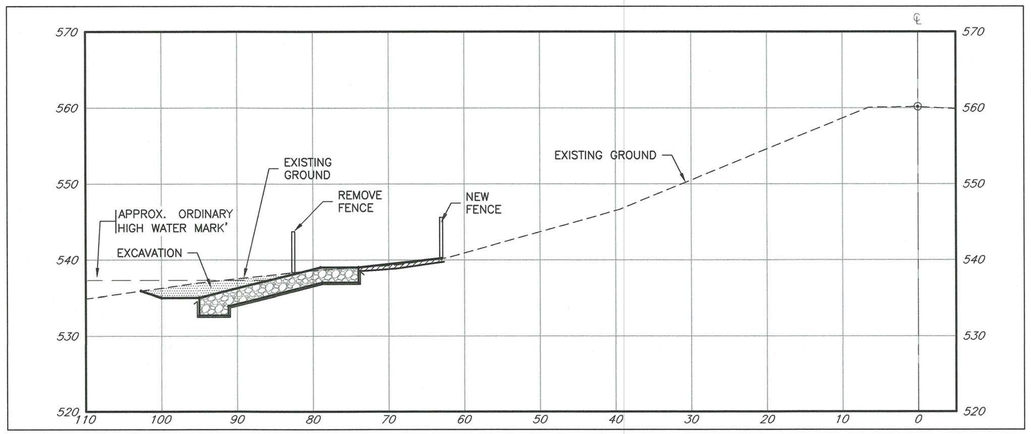
6+25

0 10 20 Feet



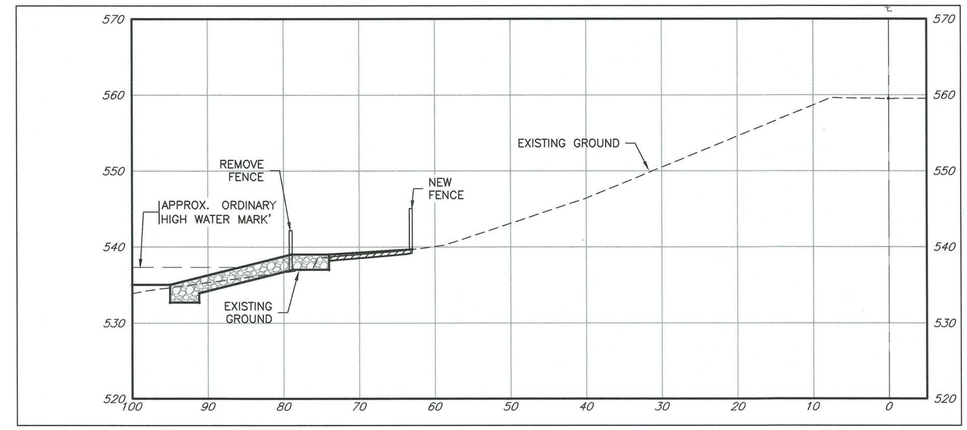
12+00

0 10 20 Feet



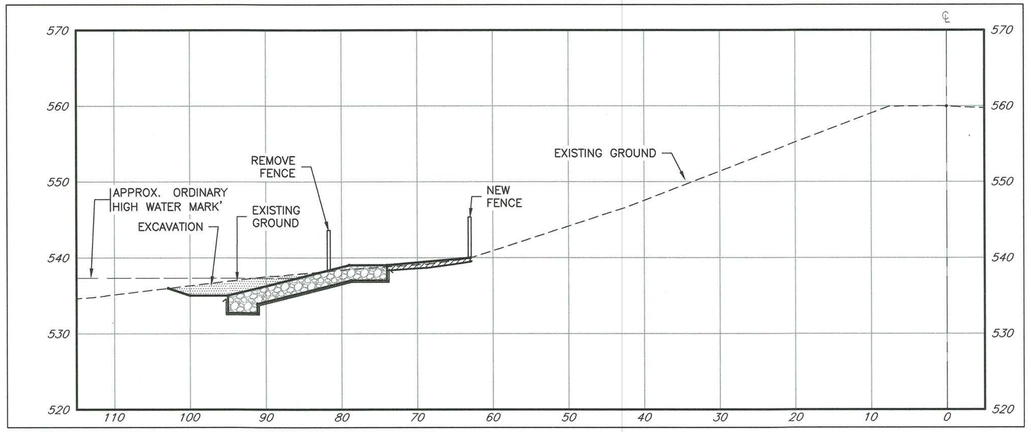
8+00

0 10 20 Feet



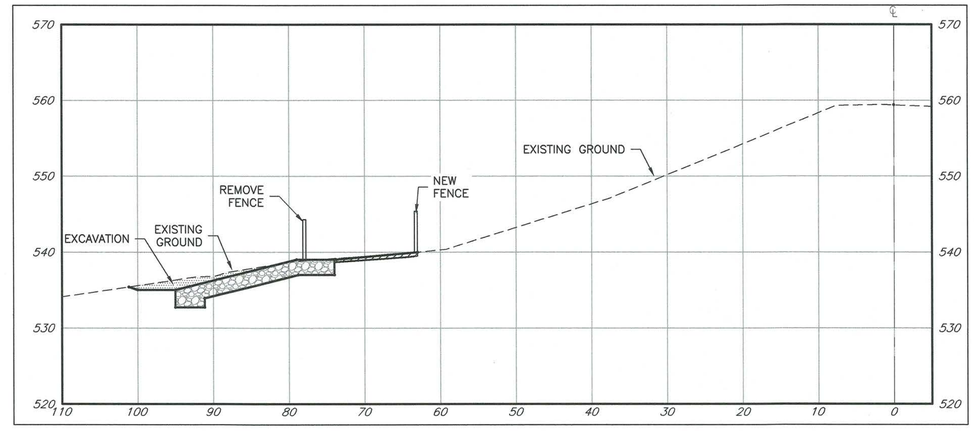
16+00

0 10 20 Feet



10+00

0 10 20 Feet



18+50

0 10 20 Feet

REVISIONS		
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DESIGNED BY: JJH,GEG,SMD
DRAWN BY: SMD
CHECKED BY: GEG, KSG
FILE NAME: Plum Creek 16 Site Repair.dwg
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SECTIONS

FLOODWATER RETARDING STRUCTURE SITE NO. 16 REPAIR
PLUM CREEK WATERSHED
IN
HUNT COUNTY, TEXAS

United States Department of Agriculture
Natural Resources Conservation Service

DRAWING NO. TX-EN-0751

SHEET NO. 4 OF 6

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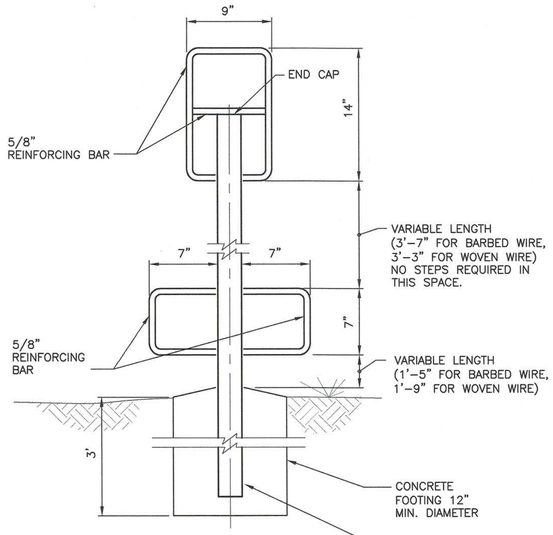


STILE DETAIL

NOT TO SCALE

(1 REQUIRED)

NOTE:

POSITION STILE SO THAT STEPS AND HANDLE ARE PERPENDICULAR TO ALIGNMENT OF FENCE.

ALL BAR BENDS SHOWN SHALL HAVE AN INSIDE RADIUS OF APPROX. 1 ½"

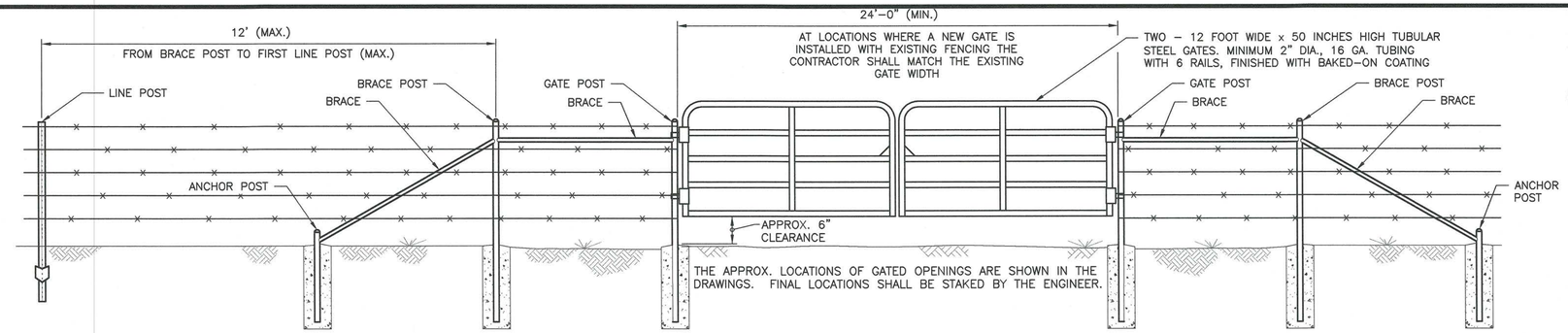
PIPE FOR STILE SHALL BE 2.875" O.D. SCHEDULE 40 STEEL PIPE.

ALL BAR CONNECTIONS SHALL HAVE ALL AROUND FILLET WELD.

ATTACH END CAP TO PIPE WITH ALL AROUND WELD, AND BAR TO END CAP BY WELDING BOTH SIDES.

GALVANIZE STILE AFTER FABRICATION.

STILE LOCATION WILL BE DESIGNATED BY THE ENGINEER DURING FENCE LAYOUT.



24' GATE OPENING

NOT TO SCALE

(ONE (1) OPENINGS SHOWN)

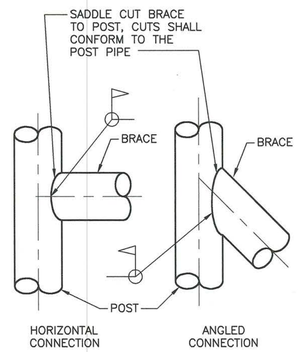
TEE POSTS SHALL MEET THE REQUIREMENTS OF ASTM A702 WITH TWO COATS OF PAINT. ALL LINE POST SHALL BE THE SAME COLOR.

PIPE POSTS AND BRACES SHALL MEET THE REQUIREMENTS OF ASTM A500 OR ASTM A53, EXCEPT SECTION B, HYDROSTATIC TEST SHALL NOT APPLY.

GALVANIZATION OF GATE/CORNER POSTS, BRACE POSTS, ANCHOR POSTS, BRACES, AND CAPS SHALL NOT BE REQUIRED.

GATE POSTS, CORNER POSTS, BRACE POSTS, ANCHOR POSTS, AND PULL POSTS SHALL BE 2.875" O.D.

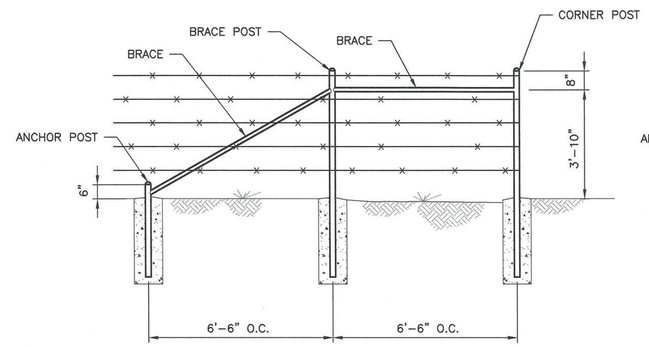
BRACES AND LINE POSTS SHALL BE MIN. 2.375" O.D.. ALL POSTS AND BRACES SHALL BE SCHEDULE 40 PIPE.



ELEVATION VIEW

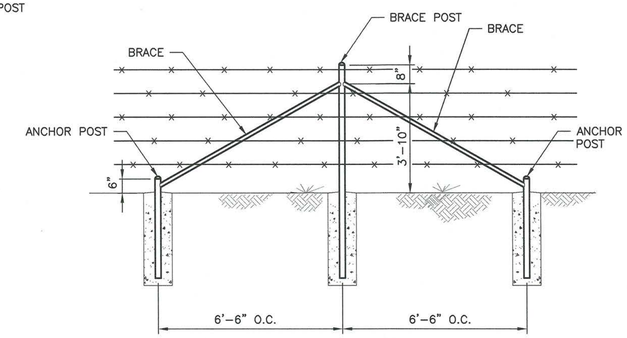
POST DETAILS

NOT TO SCALE



CORNER PANEL

NOT TO SCALE

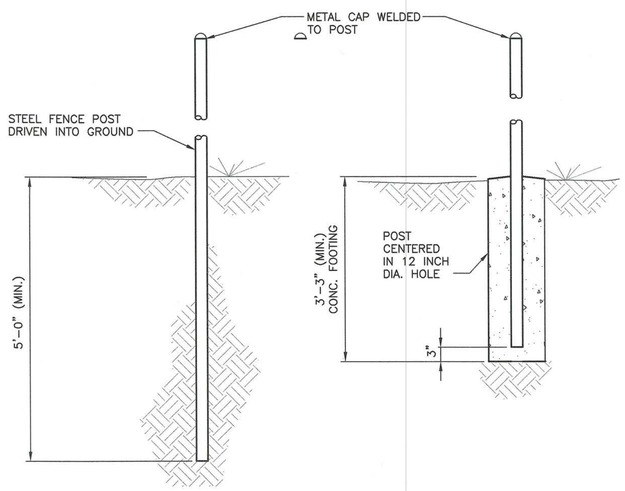


PULL PANEL

NOT TO SCALE

DRIVE EMBEDMENT NOTES:

1. DRIVE STEEL CORNER, BRACE, AND GATE POSTS TO THE MINIMUM DEPTH SHOWN.
2. IN THE EVENT THAT DRIVING OPERATIONS DO NOT ACHIEVE THE MINIMUM DEPTH SHOWN, THE POST SHALL BE REMOVED AND REPLACED IN ACCORDANCE WITH THE CONCRETE EMBEDMENT DETAIL.
3. CHANGES IN VERTICAL ALIGNMENT, SUCH AS CROSSING OF STUB DIVERSIONS, LINE POSTS OR PULL PANEL POSTS THAT RESTRAIN UPWARD PULL OF THE FENCE STRANDS SHALL BE ANCHORED BY SETTING SUCH POST IN 18" OF CONCRETE. THE ENGINEER WILL DESIGNATE THE LOCATIONS WHERE THIS ANCHORAGE TREATMENT IS REQUIRED.



DRIVE EMBEDMENT OPTION

DETAIL

NOT TO SCALE

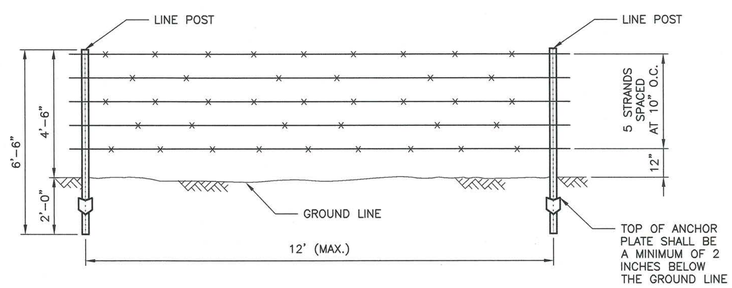
CONCRETE EMBEDMENT OPTION

DETAIL

NOT TO SCALE

CONCRETE EMBEDMENT NOTES:

1. SET STEEL CORNER, BRACE, AND GATE POSTS IN CONCRETE AS SHOWN.
2. IF SOUND ROCK IS ENCOUNTERED THE DRILL HOLE MAY BE A MINIMUM OF 6" IN DIAMETER.
3. UNLESS OTHERWISE STATED OR APPROVED THE CONCRETE FOR THE FOOTING SHALL HAVE A MINIMUM STRENGTH OF 3,000 PSI AT 28 DAYS.
4. CONCRETE SHALL BE MIXED PRIOR TO PLACEMENT.
5. CHANGES IN VERTICAL ALIGNMENT, SUCH AS CROSSING OF STUB DIVERSIONS, LINE POSTS OR PULL PANEL POSTS THAT RESTRAIN UPWARD PULL OF THE FENCE STRANDS SHALL BE ANCHORED BY SETTING SUCH POST IN 18" OF CONCRETE. THE ENGINEER WILL DESIGNATE THE LOCATIONS WHERE THIS ANCHORAGE TREATMENT IS REQUIRED.



BARBED WIRE REQUIRED SHALL BE STEEL DOUBLE STRAND 12 ½ GA., COATING TYPE Z (ZINC GALVANIZED) AND COATING CLASS 3 WIRE CONFORMING TO ASTM A121.

BARBS SHALL BE (2) POINT, 14 GA. OR LARGER, ROUND OR FLAT AND ON 4" SPACING.

ATTACH EACH BARBED WIRE STRAND TO THE CORNER, END POST, AND PULL PANEL BRACE POST WITH A DOUBLE WRAP OF GALVANIZED WIRE TIED BACK WITH A MIN. OF 4 WRAPS.

ANCHORAGE OF FENCE WIRE TO POSTS WHERE THERE IS A CHANGE IN VERTICAL ALIGNMENT THAT PRODUCES UPWARD OR DOWNWARD PULL SHALL BE ACCOMPLISHED WITH DOUBLE TIE WIRES TO EACH SUCCESSIVE FENCE WIRE. THE ENGINEER WILL DESIGNATE THE POSTS WHERE THIS SPECIAL FASTENING OF THE FENCE WIRES ARE REQUIRED.

5-STRAND BARBED WIRE

NOT TO SCALE

THE APPROX. LOCATION OF FENCES TO BE CONSTRUCTED ARE SHOWN ON SHEET 1.
THE FINAL LOCATION OF THE FENCES SHALL BE APPROVED BY THE ENGINEER.

REVISIONS		
DATE	APPROVED	TITLE

STATE OF TEXAS — RICHARD BRIAN WEMBERG — 88767 — LICENSED PROFESSIONAL ENGINEER — 2/26/19

DESIGNED BY:	JJH,GEG,SMD
DRAWN BY:	SMD
CHECKED BY:	KSG, SWI
FILE NAME:	PLUM CREEK 16 FENCE.dwg
DATE CHECKED:	2/26/2019

FENCE DETAILS

FLOODWATER RETARDING STRUCTURE SITE NO. 16 REPAIR
PLUM CREEK WATERSHED
IN
HAYS COUNTY, TEXAS

United States Department of Agriculture
Natural Resources Conservation Service

DRAWING NO. TX-EN-0751

SHEET NO. 5 OF 6

SAVE DATE: 21-Feb-19 TIME: 1:59 PM
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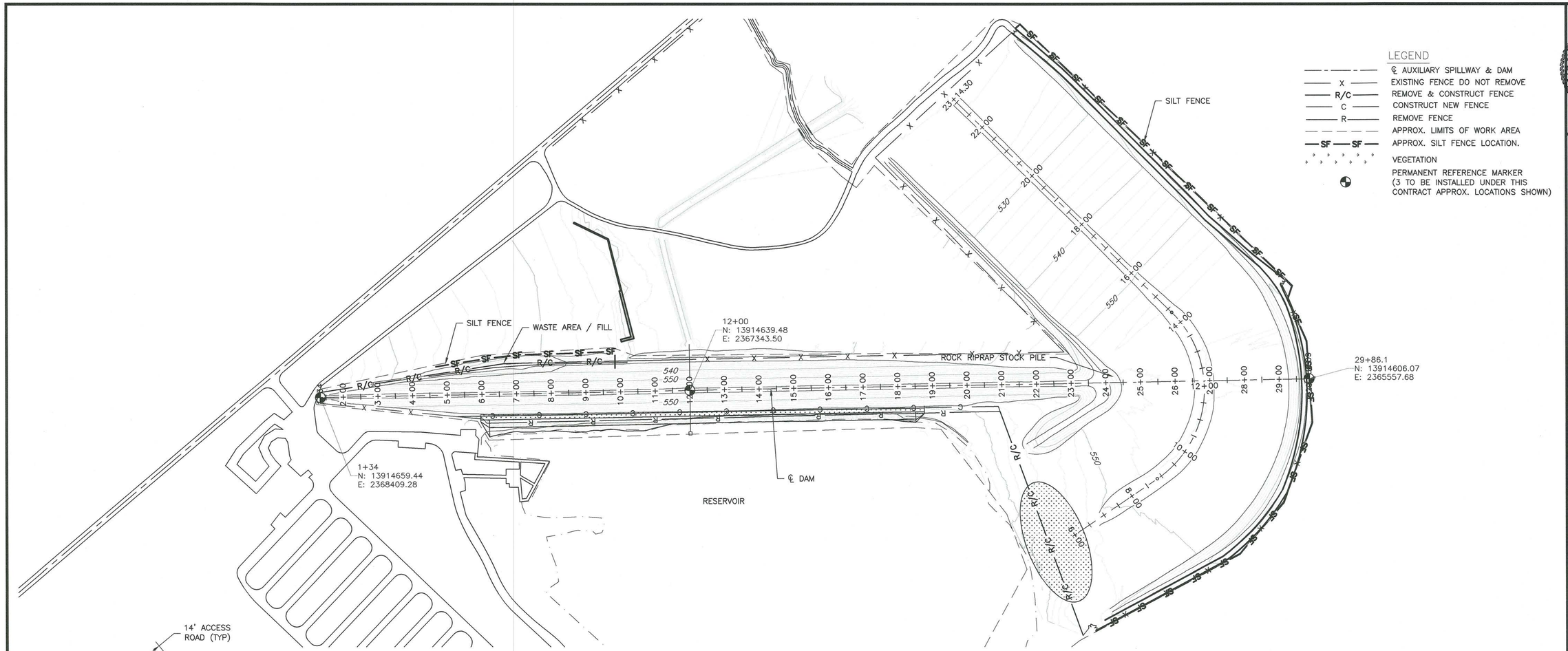
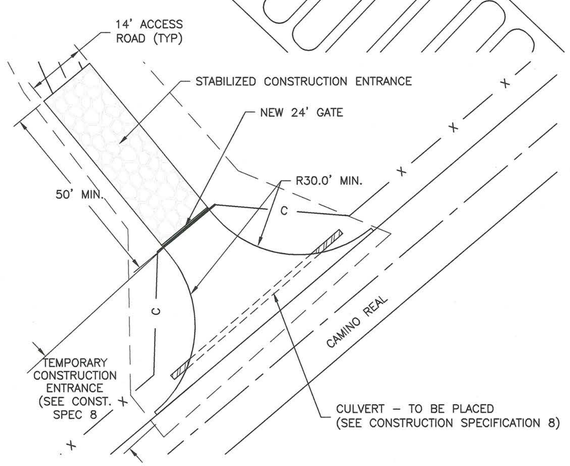


GENERAL PLAN VIEW

0 150 300 FEET

2 FT CONTOUR INTERVAL



STABILIZED CONSTRUCTION ENTRANCE DETAIL

PLAN VIEW

NOT TO SCALE

THE STABILIZED CONSTRUCTION ENTRANCE SHALL CONSIST OF A MINIMUM OF 8" THICKNESS OF CRUSHED ROCK PREDOMINANTLY 4" TO 6" IN SIZE. THE AGGREGATES SHALL BE CLEAN, HARD, DURABLE, AND FREE FROM ADHERENT COATINGS SUCH AS SALT, ALKALI, DIRT, CLAY, LOAM, SHALE, SOFT OR FLAKY MATERIALS, AND ORGANIC OR INJURIOUS MATTER. PROVIDE A GEOTEXTILE LAYER BENEATH THE CRUSHED ROCK.

ACTUAL SIZES, DIMENSIONS, QUANTITIES, ALIGNMENT AND EXTENTS SHALL BE AS DETERMINED IN THE FIELD BY THE ENGINEER. (SEE CONSTRUCTION SPECIFICATION 5 & 8).

THE STABILIZED CONSTRUCTION ENTRANCE SHALL STAY IN PLACE AFTER COMPLETION OF THE PROJECT.

GENERAL NOTES:
EROSION & SEDIMENT CONTROL MEASURES & WORKS

SEDIMENT FILTERS

1. SEDIMENT FILTERS SHALL BE FABRIC (GEOTEXTILE) SILT FENCES INSTALLED AS DETAILED ON THIS SHEET AND INDICATED IN CONSTRUCTION SPECIFICATION 5 AND MATERIAL SPECIFICATION 592.
2. SEDIMENT FILTERS SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS:

   (A) ALONG THE DOWNSTREAM BOUNDARY OF ANY AREA WHICH IS STRIPPED OF EXISTING VEGETATION AND/OR SURFACE MATERIAL DURING ANY PHASE OF CONSTRUCTION ACTIVITY.

   (B) ALONG THE DOWNSTREAM BOUNDARY OF ANY SOIL MATERIAL WHICH IS STOCKPILED DURING ANY PHASE OF CONSTRUCTION ACTIVITY FOR MORE THAN 14 DAYS.

   (C) OTHER AREAS WHICH ARE DETERMINED BY THE CONTRACTING OFFICER TO BE POTENTIAL SILT SOURCES.
3. SEDIMENT FILTERS SHALL NOT BE USED WHERE CONCENTRATED FLOWS WHICH EXCEED ONE CFS ARE EXPECTED, OR WHERE DRAINAGE AREA EXCEEDS TWO ACRES.
4. THE HEIGHT OF SILT FENCES SHALL NOT EXCEED 48 INCHES (HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE).
5. SPLICES IN THE FILTER FABRIC ARE NOT RECOMMENDED. WHEN JOINTS ARE UNAVOIDABLE, FABRIC SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6–INCH LAP.
6. POST SHALL BE DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 20 INCHES).

MAINTENANCE

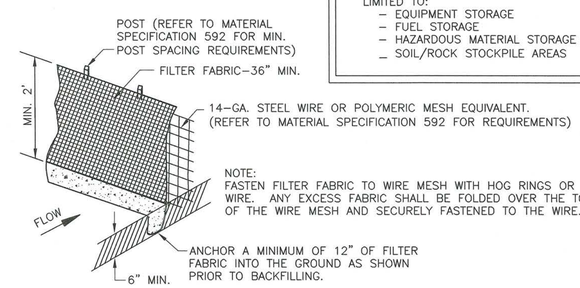
1. SEDIMENT FILTERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
2. SILT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITS REACH APPROXIMATELY ONE–HALF THE HEIGHT OF THE SEDIMENT FILTER.
3. SHOULD THE FABRIC ON A SILT FENCE DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE, THE FABRIC SHALL BE REPLACED PROMPTLY UNLESS INSPECTION REPORTS INDICATE THAT THE REPLACEMENT IS UNNECESSARY.

NOTE:
CONTRACTOR SHALL ADD LOCATION(S) OF SEDIMENT FENCE TO PLAN AS REQUIRED.

APPROXIMATELY 1920 FEET OF SEDIMENT FENCE IS CURRENTLY SHOWN.

CONTRACTOR SHALL INDICATE ON THE PLAN ALL PRODUCT SPECIFIC STORAGE AREAS AS DESCRIBED IN THE SWP3.

THESE AREAS SHALL INCLUDE, BUT ARE NOT LIMITED TO:
- EQUIPMENT STORAGE
- FUEL STORAGE
- HAZARDOUS MATERIAL STORAGE
- SOIL/ROCK STOCKPILE AREAS



FILTER FABRIC SILT FENCE DETAILS

(SEE CONSTRUCTION SPECIFICATION 5)

NOTE: STAKES FOR INSTALLING SEDIMENT FILTER FABRIC SILT FENCE SHALL BE 5' STEEL "T" POSTS. ALL STEEL POSTS AND FILTER FABRIC SILT FENCES SHALL BE REMOVED AT THE END OF THE CONTRACT.

REVISIONS		
DATE	APPROVED	TITLE

STATE OF TEXAS — RICHARD BRIAN HERRIN — 88767 — LICENSED PROFESSIONAL ENGINEER — 2/26/19

DESIGNED BY: JJH,GEG,SMD
DRAWN BY: SMD
CHECKED BY: KSG, SWI
FILE NAME: Plum Creek 16 Site Repair.dwg
DATE CHECKED: 2/26/2019

STORMWATER POLLUTION PREVENTION PLAN

FLOODWATER RETARDING STRUCTURE SITE NO. 16 REPAIR

PLUM CREEK CREEK WATERSHED

IN

HAYS COUNTY, TEXAS

United States Department of Agriculture

Natural Resources Conservation Service

DRAWING NO. TX–EN–0751

SHEET NO. 6

OF 6

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