

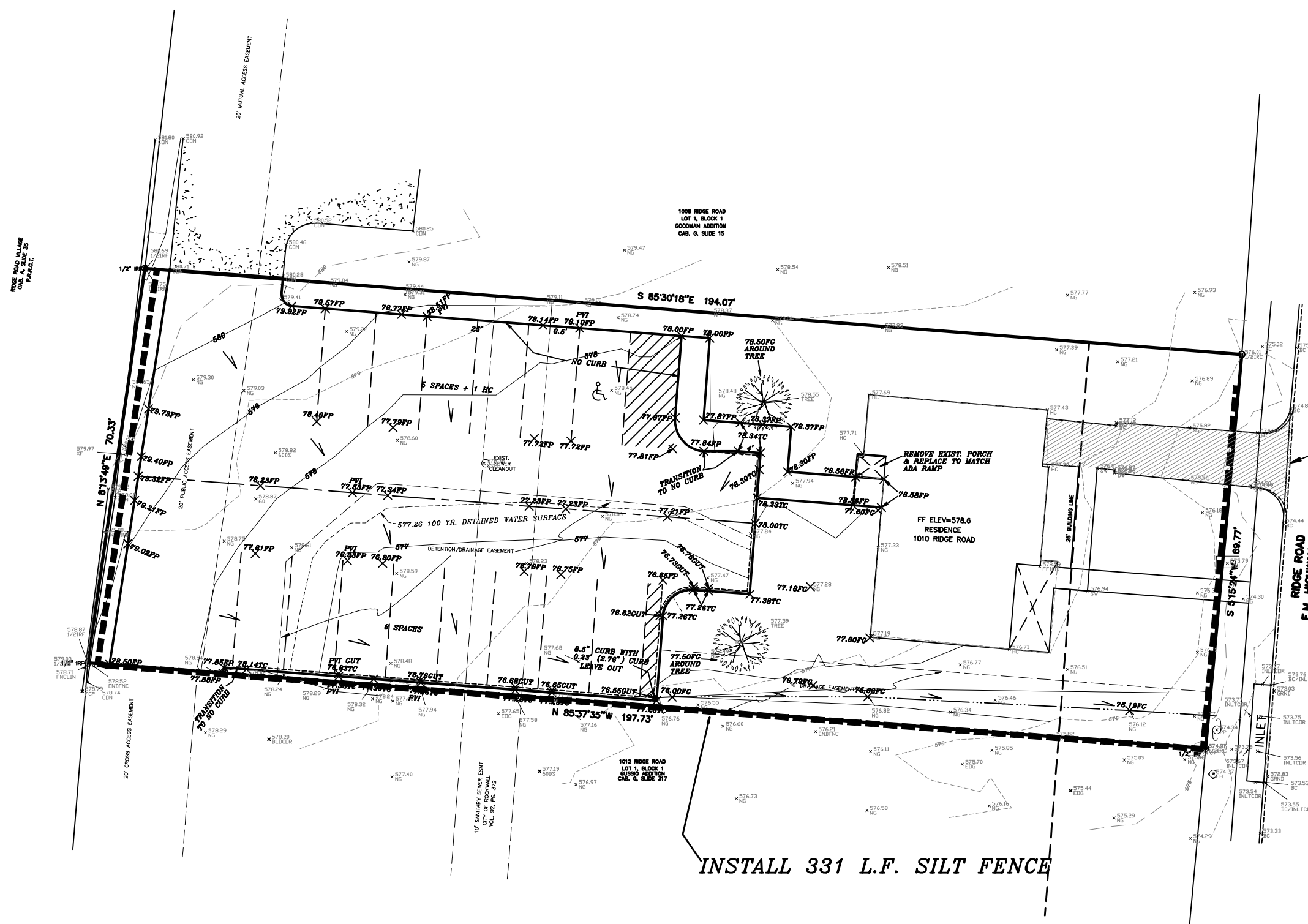
2235 RIDGE RD # 200 ROCKWALL TEXAS 75082
ENGINEERING • PROJECT MANAGEMENT • SURVEYING

REVISION	
W.L.D.	
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G.C.W.	
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JUNE 16, 20	
DATE	
15011	
PROJECT	
8 OF 8	

CITY CASE NO. SP2015-014

W. W. Lloyd Garrison

DATE: 12/17/15



EXISTING DRIVE TO BE USED
AS CONSTRUCTION ENTRANCE

DEFINITION

TEMPORARY BARRIER FENCE MADE OF BURLAP OR POLYPROPYLENE MATERIAL WHICH IS WATER PERMEABLE BUT WILL TRAP WATER - BORNE SEDIMENT.

PURPOSE

TO INTERCEPT AND DETAIN WATER - BORNE SEDIMENT FROM UNPROTECTED AREAS OF LIMITED EXTENT.

CONDITIONS WHERE PRACTICE APPLIES

SILT FENCE IS USED DURING THE PERIOD OF CONSTRUCTION NEAR THE PERIMETER OF A DISTURBED AREA TO INTERCEPT SEDIMENT WHILE ALLOWING WATER TO PERCOLATE THROUGH. THIS FENCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED. SILT FENCE SHOULD NOT BE USED WHERE THERE IS A CONCENTRATION OF WATER IN A CHANNEL OR OTHER DRAINAGE WAY.

DESIGN CRITERIA

SILT FENCE IS CONSTRUCTED NEAR THE PERIMETER OF A DISTURBED SITE WITHIN THE DEVELOPING AREA. IT IS NOT TO BE CONSTRUCTED OUTSIDE THE PROPERTY LINES WITHOUT OBTAINING A LETTER OF PERMISSION FROM THE AFFECTED ADJACENT PROPERTY OWNERS.

A DESIGN IS NOT REQUIRED FOR THE INSTALLATION OF THE SILT FENCE. HOWEVER, THE FOLLOWING CRITERIA SHALL BE OBSERVED :

- | | |
|-----------------------------|--|
| DRAINAGE AREA -
HEIGHT - | LESS THAN TWO ACRES
30 INCHES MINIMUM HEIGHT MEASURED FROM EXISTING OR GRADED GROUND. |
| MATERIAL - | BURLAP, POLYPROPYLENE FABRIC, OR NYLON REINFORCED WITH POLYESTER NETTING. THE MULLEN BURST STRENGTH SHALL BE GREATER THAN 150 LBS. THE EDGES SHALL BE TREATED TO PREVENT UNRAVELING. |
| SUPPORT - | STEEL FENCE POSTS SPACED A MAXIMUM OF 8 FEET APART. WOVEN WIRE WILL BE USED TO SUPPORT THE MATERIAL. |

OUTLET

SILT FENCE SHALL BE PLACED AND CONSTRUCTED IN SUCH A MANNER THAT RUNOFF FROM A DISTURBED SURFACE OR EXPOSED UPLAND AREA SHALL BE INTERCEPTED, SEDIMENT TRAPPED, AND THE SURFACE RUNOFF ALLOWED TO PERCOLATE THROUGH THE STRUCTURE. SILT FENCE SHALL BE PLACED IN SUCH A MANNER THAT SURFACE RUNOFF WHICH PURCULATES THROUGH WILL FLOW ONTO AN UNDISTURBED STABILIZED AREA OR STABILIZED OUTLET.

NOT

1. SHOULD WORK CEASE FOR A PERIOD OF 21 DAYS PERMANENT STABILIZATION SHALL BE INSTALLED.
2. SHOULD THE CONTRACTOR STORE ANY FUEL OR OTHER HAZARDOUS MATERIAL ONSITE THIS PLAN WILL BE MODIFIED TO REFLECT PROTECTION MEASURES

The drawing consists of two views: a Plan view at the top and a Profile view at the bottom.

Plan View: Shows a rectangular structure made of coarse aggregate. The overall width is labeled as 50' Min. and the overall height is labeled as 14' Min. A central rectangular area is labeled "Coarse Aggregate". Above the structure, a vertical line with an arrow points upwards, labeled "Drain to sediment trapping device".

Profile View: Shows a cross-section of the structure. The top width is 50' Min. The bottom width is 8' Min. The structure is composed of a "Foundation course 6" min." at the base, followed by a layer of "4" TO 6" ROCK MIN. 12" THICK NO CRUSHED CONCREET ALLOWED". Above the rock is an "Approach transition" layer, which is 4' Min. thick on both sides. The total height of the structure is 14' Min. The label "CONSTRUCTION EXIT (TYPE 1)" is at the bottom.

GENERAL NOTES

1. The length of the type I construction exit shall be as indicated on the plans, but not less than 50'.
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 foundation course shall be flexible base, bituminous concrete, lean concrete and cement concrete or other material as approved by the Engineer.
5. The construction exit shall be graded to allow drainage to a existing trapping system.
6. The guidelines shown hereon are suggestions only and may be modified by the Engineer.

EROSION CONTROL GENERAL NOTES

1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE.
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 FENCE.
3. THE TRENCH SHOULD BE A MINIMUM OF 4 INCHES DEEP AND 4 INCHES WIDE TO ALLOW FOR THE SILT FENCE TO BE LAID IN THE GROUND AND BACKFILLED.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO TWISTED WIRE WHICH IS TIGHTLY ATTACHED TO THE STEEL FENCE POSTS.
5. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN IT HAS SERVED ITS USEFULNESS, SO AS NOT TO BLOCK FLOW SPEEDS OR FLOW OR DRAINAGE.
7. SEDIMENT TRAPPED BY THIS PRACTICE SHALL BE DISPOSED OF IN AN APPROVED SITE IN A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.
8. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES AND IS DISPOSED OF IN AN APPROVED SPOIL PILE OR TO A SLOPE.
9. EROSION PROTECTION WILL BE DELETED OR ADDED PER THE CITY OF ROCKFALL.
10. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL EROSION, CONSERVATION, AND SILTATION ORDINANCES. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF PERMANENT EROSION CONTROL FACILITIES OR ESTABLISHMENT OF A STAND OF GRASS OR OTHER GROWTH TO PREVENT EROSION.
11. ALL SEEDING AND FERTILIZATION OF DISTURBED AREAS WILL BE THE RESPONSIBILITY OF THE GRADING CONTRACTOR.

STORM DRAIN INLET PROTECTION CONSTRUCTION SPECIFICATIONS

1. STEEL FRAME IS TO BE CONSTRUCTED OF SUITABLE MATERIAL.
2. WIRE MESH MUST BE OF SUFFICIENT STRENGTH TO SUPPORT FILTER FABRIC, AND STONE FOR CURB INLETS, WITH WATER FULLY IMPOUNDED AGAINST IT.
3. FILTER CLOTH MUST BE OF A TYPE APPROVED FOR THIS PURPOSE; RESISTANT TO SUNLIGHT WITH SIEVE SIZE, EOS, 40-85, TO ALLOW SUFFICIENT PASSAGE OF WATER AND REMOVAL OF SEDIMENT.
4. STONE IS TO BE 2" IN SIZE AND CLEAN, SINCE FINES WOULD CLOG THE CLOTH.
5. THE ASSEMBLY SHALL BE PLACED SO THAT THE END SPACERS ARE A MINIMUM 1' BEYOND BOTH ENDS OF THE THROAT OPENING.
6. FORM THE WIRE MESH AND FILTER CLOTH TO THE CONCRETE GUTTER AND CURB. FORM THE TOP OF CURB TO BE 1' TO 1 1/2' TO THE SIDE. PLACE CLEAN 2" STONE OVER THE WIRE MESH AND FILTER FABRIC IN SUCH A MANNER AS TO PREVENT WATER FROM ENTERING THE INLET UNDER OR AROUND THE FILTER CLOTH.
7. THIS TYPE OF PROTECTION MUST BE INSPECTED FREQUENTLY AND THE FILTER CLOTH AND STONE REPLACED WHEN CLOGGED WITH SEDIMENT.
8. ASSURE THAT STORM FLOW DOES NOT BYPASS INLET BY INSTALLING TEMPORARY EARTH OR ASPHALT DIKES DIRECTING FLOW INTO INLET.

NOTE:

**SILTATION FENCE SHALL BE PLACED
AROUND INLETS DURING CONSTRUCTION.
GRASS SHALL BE ESTABLISHED 75%-80%
OF ALL DISTURBED AREAS IS 1" HIGH
PRIOR TO CITY ACCEPTANCE.**

CONSTRUCTION OF A FILTER BARRIER

N.T.S.

CURB INLET
PROTECTION DETAIL

N.T.S.