TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 9, 2010

Mr. Mario G. Medina, P.E., District Engineer
San Antonio District
Texas Department of Transportation
P.O. Box 29928
San Antonio, Texas 78229-0928

Re: Edwards Aquifer, Comal County
NAME OF PROJECT: FM 306; From Hancock Road to Canyon Acres Road, Comal County, Texas
TYPE OF PLAN: Request for Approval of a Contributing Zone Plan (CZP); 30 Texas Administrative Code (TAC) Chapter 213 Subchapter B Edwards Aquifer
Edwards Aquifer Protection Program ID No. 13-10060710

Dear Mr. Medina:

The Texas Commission on Environmental Quality (TCEQ) has completed its review of the CZP application for the referenced project submitted to the Austin Regional Office by the Texas Department of Transportation on June 7, 2010. As presented to the TCEQ, the Temporary and Permanent Best Management Practices (BMPs) and construction plans were prepared by a Texas Licensed professional engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed, and dated by a Texas licensed professional engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Contributing Zone Plan. A motion for reconsideration must be filed no later than 23 days after the date of this approval letter. *This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10% of the construction has commenced on the project or an extension of time has been requested.*

PROJECT DESCRIPTION

The proposed roadway project will be constructed within an approximately 24.5 acre right-of-way (ROW). The construction will include installing appropriate temporary BMPs; reconstructing and widening existing portions of the 24-foot wide roadway (two existing 12-foot wide lanes) to a 36-foot wide roadway (two 12-foot wide lanes and 6-foot wide shoulders); adding a 12-foot continuous center turn lane; providing appropriate drainage improvements, driveway and intersection improvements, permanent BMPs, and other associated appurtenances. The impervious cover will be increased from approximately 7.2 acres to 10.6 acres (43.2 percent). No wastewater will be generated by this project.

PERMANENT POLLUTION ABATEMENT MEASURES

The selected BMPs for this project are engineered filter strips (VFS). All design calculations were sealed by Richard De La Cruz, P.E., on June 3, 2010 to demonstrate the total treatment load removal to exceed the required 1,921 lbs. increase caused by the project by 1013 lbs. Treatment, by rule, is required only for the increase in total suspended solids (TSS).

SPECIAL CONDITIONS

I. Since this is a roadway construction project, deed recordation of this approval letter is not required.

II. A staging area was not proposed for this project. If the contractor desires a staging area, information indicating the proposed location and placement of appropriate temporary erosion and sedimentation controls must be submitted to the TCEQ for review and approved prior to its installation.

STANDARD CONDITIONS

1. Pursuant to Chapter 7 Subchapter C of the Texas Water Code, any violations of the requirements in 30 TAC Chapter 213 may result in administrative penalties.

Prior to Commencement of Construction:

2. All contractors conducting regulated activities at the referenced project location shall be provided a copy of this notice of approval. At least one complete copy of the approved CZP and this notice of approval shall be maintained at the project until all regulated activities are completed.

3. Any modification to the activities described in the referenced CZP application following the date of approval may require the submittal of a plan to modify this approval, including the payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.

4. The applicant must provide written notification of intent to commence construction of the referenced project. Notification must be submitted to the Austin Regional Office no later than 48 hours prior to commencement of the regulated activity. Written notification must include the name of the approved plan and ID number for the regulated activity, the date on which the regulated activity will commence, and the name of the prime contractor with the name and telephone number of the contact person.

5. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved Storm Water Pollution Prevention Plan (SWPPP) must be installed prior to construction and maintained during construction. Temporary E&S controls may be removed when vegetation is established and the construction area is stabilized. The TCEQ may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.

During Construction:

6. During the course of regulated activities related to this project, the applicant or his agent shall comply with all applicable provisions of 30 TAC Chapter 213, Edwards Aquifer. The applicant shall remain responsible for the provisions and conditions of this approval until such responsibility is legally transferred to another person or entity.

7. If sediment escapes the construction site, the sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain). Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been significantly reduced. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

8. Intentional discharges of sediment laden storm water are not allowed. If dewatering becomes necessary, the discharge will be filtered through appropriately selected best management practices. These may include vegetated filter strips, sediment traps, rock berms, silt fence rings, etc.

9. The following records shall be maintained and made available to the executive director upon request: the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.

10. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.

11. This approval does not authorize the installation of temporary aboveground storage tanks on this project. If the contractor desires to install a temporary aboveground storage tank for use during construction, an application to modify this approval must be submitted and approved prior to installation. The application must include information related to tank location and spill containment.

After Completion of Construction:

12. Owners of permanent BMPs and measures must insure that the BMPs and measures are constructed and function as designed. A Texas licensed professional engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the Austin Regional Office within 30 days of site completion.

13. The applicant shall be responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred. A copy of

the transfer of responsibility must be filed with the executive director through the Austin Regional Office within 30 days of the transfer. A copy of the transfer form (TCEQ-10263) is enclosed.

14. Upon legal transfer of this property, the new owner(s) is required to comply with all terms of the approved CZP. If the new owner intends to commence any new regulated activity on the site, a new CZP that specifically addresses the new activity must be submitted to the executive director. Approval of the plan for the new regulated activity by the executive director is required prior to commencement of the new regulated activity.

15. A CZP approval or extension will expire and no extension will be granted if more than 50% of the total construction has not been completed within ten years from the initial approval of a plan. A new Contributing Zone Plan must be submitted to the Austin Regional Office with the appropriate fees for review and approval by the executive director prior to commencing any additional regulated activities.

16. At project locations where construction is initiated and abandoned, or not completed, the site shall be returned to a condition such that the aquifer is protected from potential contamination.

If you require additional information, please contact Mr. Kevin Lee Smith, P.E. of the Edwards Aquifer Protection Program with the Austin Regional Office at (512) 339-2929.

Sincerely,

Mark R. Vickery, P.G., Executive Director
Texas Commission on Environmental Quality

MRV/kls

Enclosure: Change in Responsibility for Maintenance on Permanent BMPs-Form TCEQ-10263

cc: Mr. Richard De La Cruz, P.E., San Antonio District, Texas Department of Transportation
Mr. Tom Hornseth, P.E., County Engineer, Comal County
Ms. Lynn Bumgaurdner, Water Section Manager, San Antonio Regional Office
TCEQ Central Records, Building F, MC212

Change in Responsibility for Maintenance on Permanent Best Management Practices and Measures

The applicant is no longer responsible for maintaining the permanent best management practice (BMP) and other measures. The project information and the new entity responsible for maintenance is listed below.

Customer: _____

Regulated Entity Name: _____

Site Address: _____

City, Texas, Zip: _____

County: _____

Approval Letter Date: _____

BMPs for the project: _____

New Responsible Party: _____

Name of contact: _____

Mailing Address: _____

City, State: _____ Zip: _____

Telephone: _____ FAX: _____

_____ _____

Signature of New Responsible Party Date

I acknowledge and understand that I am assuming full responsibility for maintaining all permanent best management practices and measures approved by the TCEQ for the site, until another entity assumes such obligations in writing or ownership is transferred.

If you have questions on how to fill out this form or about the Edwards Aquifer protection program, please contact us at 210/490-3096 for projects located in the San Antonio Region or 512/339-2929 for projects located in the Austin Region.

Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact us at 512/239-3282.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

June 9, 2010

Mr. Thomas H. Hornseth, P.E.
Comal County Engineer
195 David Jonas Drive
New Braunfels, Texas 78132

Re: Edwards Aquifer, **Comal County**
PROJECT NAME: **FM 306**; On FM 306, Hancock Road to Canyon Acres Road; Comal County, Texas
PLAN TYPE: Application for Approval of a TxDOT Contributing Zone Plan (CZP); 30 Texas Administrative Code (TAC) Chapter 213 Subchapter B
Edwards Aquifer Protection Program ID No. 10060710

Dear Mr. Hornseth:

The enclosed TxDOT CZP application is being forwarded to you pursuant to the Edwards Aquifer Protection Rules. The Texas Commission on Environmental Quality (TCEQ) is required by 30 TAC Chapter 213 to provide copies of all applications to affected incorporated cities and underground water conservation districts for their comments prior to TCEQ approval.

Please forward your comments to this office by **July 9, 2010.**

Should you have any questions concerning this matter, please contact Mr. Kevin Smith, P.E. of the Edwards Aquifer Protection Program at the Austin Regional Office (512) 339-2929.

Sincerely,

for Carolyn D. Runyon
Water Section Manager
Austin Regional Office

CDR/pc

Enclosure

COMAL CO.

Contributing Zone Plan Application
for Regulated Activities
on the Contributing Zone to the Edwards Aquifer
and Relating to 30 TAC §213.24(1), Effective June 1, 1999

RECEIVED
JUN 11 2010
COUNTY ENGINEER

Regulated Entity Name: FM 306
County: Comal Stream Basin: Guadalupe

1. X Regulated activities on this site will disturb at least 5 acres.
   __ Regulated activities on this site will disturb less than 5 acres and are part of a larger common plan of development or sale with the potential to disturb cumulatively five or more acres.

2. Customer (Applicant):

Contact Person: Richard Luis De La Cruz
Entity: Texas Department of Transportation
Mailing Address: 4615 NW Loop 410
City, State: San Antonio, Texas Zip: 78229
Telephone: 210-615-6024 FAX: 210-615-6295

RECEIVED
JUN 07 2010
TCEQ FIELD OPERATIONS
AUSTIN REGION 11

Agent/Representative (If any):

Contact Person: NA
Entity: NA
Mailing Address: NA
City, State: NA Zip: NA
Telephone: NA FAX: NA

3. __ This project is inside the city limits of _____.
   __ This project is outside the city limits but inside the ETJ (extra-territorial jurisdiction) of _____.
   X This project is not located within any city's limits or ETJ.

4. The location of the project site is described below. Sufficient detail and clarity has been provided so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

5. X **ATTACHMENT A - Road Map.** A road map showing directions to and the location of the project site is found as at the end of this form.

6. X **ATTACHMENT B - USGS Quadrangle Map.** A copy of the USGS Quadrangle Map (Scale: 1" = 2000') is found at the end of this form. The map(s) clearly shows:
   X Project site boundaries.
   X USGS Quadrangle Name(s).

7. __ **ATTACHMENT C - Project Narrative.** A detailed narrative description of the proposed project is found at the end of this form.

8. Existing project site conditions are noted below:
   - ___ Existing commercial site
   - ___ Existing industrial site
   - ___ Existing residential site
   - X Existing paved and/or unpaved roads
   - ___ Undeveloped (Cleared)
   - ___ Undeveloped (Undisturbed/Uncleared)
   - ___ Other: _____

PROJECT INFORMATION

9. The type of project is:
   - ___ Residential: # of Lots: _____
   - ___ Residential: # of Living Unit Equivalents: _____
   - ___ Commercial
   - ___ Industrial
   - X Other: Highway

10. Total project area (size of site): 24.50 Acres
    Total disturbed area: 10.00 Acres

11. Projected population: NA

12. The amount and type of impervious cover expected after construction is complete is shown below:

Impervious Cover of Proposed Project	Sq. Ft.	Sq. Ft./Acre	Acres
FM 306 existing impervious cover	314,609:30	÷ 43,560 =	7.22
FM 306 existing driveways	52,985.00	÷ 43,560 =	1.22
FM 306 proposed increase in impervious cover	93,366.00	÷ 43,560 =	2.14
Total Impervious Cover	455,960.30	÷ 43,560 =	10.58
Total Impervious Cover ÷ Total Acreage x 100 =			43.18%

13. X **ATTACHMENT D - Factors Affecting Surface Water Quality.** A description of factors that could affect surface water quality is found as at the end of this form. If applicable, this should included the location and description of any discharge associated with industrial activity other than construction.

14. X Only inert materials as defined by 30 TAC 330.2 will be used as fill material.

FOR ROAD PROJECTS ONLY
Complete questions 15-20 if this application is exclusively for a road project.

15. Type of project:
   - X TXDOT road project.
   - ___ County road or roads built to county specifications.

__ City thoroughfare or roads to be dedicated to a municipality.
__ Street or road providing access to private driveways.

16. Type of pavement or road surface to be used:
__ Concrete
X Asphaltic concrete pavement
__ Other: _____

17. Length of Right of Way (R.O.W.): 8,690.32 feet.
Width of R.O.W.: varies feet.
L x W = _____ Ft^2 ÷ 43,560 Ft^2/Acre = 24.50 acres.

18. Length of pavement area: 8690.32 feet.
Width of pavement area: varies feet.
L x W = _____ Ft^2 ÷ 43,560 Ft^2/Acre = 7.22 acres.
Pavement area 7.22 acres ÷ R.O.W. area 24.50 acres x 100 = 29.47% impervious cover.

19. __ A rest stop will be included in this project.
X A rest stop will **not** be included in this project.

20. NA Maintenance and repair of existing roadways that do not require approval from the TCEQ Executive Director. Modifications to existing roadways such as widening roads/adding shoulders totaling more than one-half (1/2) the width of one (1) existing lane require prior approval from the TCEQ.

STORMWATER TO BE GENERATED BY THE PROPOSED PROJECT

21. X **ATTACHMENT E - Volume and Character of Stormwater.** A description of the volume and character (quality) of the stormwater runoff which is expected to occur from the proposed project is found at the end of this form. The estimates of stormwater runoff quality and quantity are based on area and type of impervious cover. The runoff coefficient of the site for both pre-construction and post-construction conditions is included.

WASTEWATER TO BE GENERATED BY THE PROPOSED PROJECT

22. Wastewater will be disposed of by:

NA On-Site Sewage Facility (OSSF/Septic Tank):
ATTACHMENT F - Suitability Letter from Authorized Agent. An on-site sewage facility will be used to treat and dispose of the wastewater from this site. The appropriate licensing authority's written approval is provided at the end of this form. It states that the land is suitable for the use of private sewage facilities and will meet or exceed the requirements for on-site sewage facilities as specified under 30 TAC Chapter 285 relating to On-site Sewage Facilities, or it identifies those areas that are not suitable for the use of private sewage facilities. The system will be designed by a licensed professional engineer or a registered sanitarian and installed by a licensed installer in compliance with 30 TAC §285.

__ Sewage Collection System (Sewer Lines):
Wastewater is to be disposed of by conveyance to the (name) treatment plant for treatment and disposal. The treatment facility is: _____
__ existing.

__ proposed.

__ Wastewater is to be discharged in the contributing zone. Requirements under 30 TAC §213.6(c) relating to Wastewater Treatment and Disposal Systems have been satisfied.

FOR PERMANENT ABOVEGROUND STORAGE TANKS (ASTs) > 500 GALLONS
Complete questions 23-29 if this project includes the installation of AST(s) with volume(s) greater than 500 gallons.

23. Tanks and substance stored: ***NA***

AST Number	Size (Gallons)	Substance to be Stored	Tank Material
1			
2			
3			
4			
5			
Total		x 1.5 =	gallons

24. __ The AST will be placed within a containment structure that is sized to capture one and one-half (1 1/2) times the storage capacity of the system. For facilities with more than one tank system, the containment structure is sized to capture one and one-half (1 1/2) times the cumulative storage capacity of all systems.

NA **ATTACHMENT G - Alternative Secondary Containment Methods.** Alternative methods for providing secondary containment are proposed. Specifications showing equivalent protection for the Edwards Aquifer are found at the end of this form.

25. Inside dimensions and capacity of containment structure(s):

Length (L) (Ft.)	Width (W) (Ft.)	Height (H) (Ft.)	L x W x H = (Ft^3)	Gallons
Total				

26. NA All piping, hoses, and dispensers will be located inside the containment structure.
__ Some of the piping to dispensers or equipment will extend outside the containment structure.
__ The piping will be aboveground
__ The piping will be underground

27. NA The containment area must be constructed of and in a material impervious to the substance(s) being stored. The proposed containment structure will be constructed of _____.

28. **ATTACHMENT H - AST Containment Structure Drawings.** A scaled drawing of the containment structure is found at the end of this form that shows the following: ***NA***

__ Interior dimensions (length, width, depth and wall and floor thickness).
__ Internal drainage to a point convenient for the collection of any spillage.
__ Tanks clearly labeled
__ Piping clearly labeled
__ Dispenser clearly labeled

29. Any spills must be directed to a point convenient for collection and recovery. Spills from storage tank facilities must be removed from the controlled drainage area for disposal within 24 hours of the spill. ***NA***

__ In the event of a spill, any spillage will be removed from the containment structure within 24 hours of the spill and disposed of properly.
__ In the event of a spill, any spillage will be drained from the containment structure through a drain and valve within 24 hours of the spill and disposed of properly. The drain and valve system are shown in detail on the scaled drawing.

SITE PLAN

Items 30 through 41 must be included on the Site Plan.

30. The Site Plan must have a minimum scale of 1" = 400'.
Site Plan Scale: 1" = 100'.

31. 100-year floodplain boundaries

X Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.
__ No part of the project site is located within the 100-year floodplain.

The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s):

_____
_____
_____

32. __ The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Lots, recreation centers, buildings, roads, etc. are shown on the site plan.
X The layout of the development is shown with existing contours at appropriate, but not greater than ten-foot contour intervals. Finished topographic contours will not differ from the existing topographic configuration and are not shown. Lots, recreation centers, buildings, roads, etc. are shown on the site plan.

33. X A drainage plan showing all paths of drainage from the site to surface streams.

34. X The drainage patterns and approximate slopes anticipated after major grading activities.

35. X Areas of soil disturbance and areas which will not be disturbed.

36. X Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.

37. X Locations where soil stabilization practices are expected to occur.

38. X Surface waters (including wetlands).

39. X Locations where stormwater discharges to surface water.
__ There will be no discharges to surface water.

40. __ Temporary aboveground storage tank facilities.
X Temporary aboveground storage tank facilities will not be located on this site.

41. __ Permanent aboveground storage tank facilities.
X Permanent aboveground storage tank facilities will not be located on this site.

Permanent best management practices (BMPs) and measures that will be used during and after construction is completed.

42. X Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.

43. X These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director.

X The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.

__ A technical guidance other than the TCEQ TGM was used to design permanent BMPs and measures for this site. The complete citation for the technical guidance that was used is provided below.

_____

_____

44. X Owners must insure that permanent BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the appropriate regional office within 30 days of site completion.

45. __ Where a site is used for low density single-family residential development and has 20 % or less impervious cover, other permanent BMPs are not required. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply

and the property owner must notify the appropriate regional office of these changes.

__ This site will be used for low density single-family residential development and has 20% or less impervious cover.
__ This site will be used for low density single-family residential development but has more than 20% impervious cover.
X This site will not be used for low density single-family residential development.

46. __ The executive director may waive the requirement for other permanent BMPs for multi-family residential developments, schools, or small business sites where 20% or less impervious cover is used at the site. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.

__ **ATTACHMENT I - 20% or Less Impervious Cover Waiver.** This site will be used for multi-family residential developments, schools, or small business sites and has 20% or less impervious cover. A request to waive the requirements for other permanent BMPs and measures is found at the end of this form.
__ This site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.
X This site will not be used for multi-family residential developments, schools, or small business sites.

47. **ATTACHMENT J - BMPs for Upgradient Stormwater.**

__ A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is provided as **ATTACHMENT J** at the end of this form.
__ If no surface water, groundwater or stormwater originates upgradient from the site and flows across the site, an explanation is provided as **ATTACHMENT J** at the end of this form.
X If permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site, an explanation is provided as **ATTACHMENT J** at the end of this form.

48. **ATTACHMENT K - BMPs for On-site Stormwater.**

X A description of the BMPs and measures that will be used to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff from the site is provided as **ATTACHMENT K** at the end of this form.
__ If permanent BMPs or measures are not required to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff, an explanation is provided as **ATTACHMENT K** at the end of this form.

49. X **ATTACHMENT L - BMPs for Surface Streams.** A description of the BMPs and measures that prevent pollutants from entering surface streams is provided at the end of this form.

50. X **ATTACHMENT M - Construction Plans.** Construction plans and design calculations for the proposed permanent BMPs and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information have been signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed permanent BMPs and measures are provided at the end of this form. Design Calculations, TCEQ Construction Notes, all proposed structural measures, and appropriate details must be shown on the construction plans.

51. X **ATTACHMENT N - Inspection, Maintenance, Repair and Retrofit Plan.** A plan for the inspection, maintenance, repair, and, if necessary, retrofit of the permanent BMPs and measures is provided at the end of this form. The plan has been prepared and certified by the engineer designing the permanent BMPs and measures. The plan has been signed by the owner or responsible party. The plan includes procedures for documenting inspections, maintenance, repairs, and, if necessary, retrofits as well as a discussion of record keeping procedures.

52. X The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.

— Pilot-scale field testing (including water quality monitoring) may be required for BMPs that are not contained in technical guidance recognized by or prepared by the executive director.

— **ATTACHMENT O - Pilot-Scale Field Testing Plan.** A plan for pilot-scale field testing is provided at the end of this form.

53. X **ATTACHMENT P - Measures for Minimizing Surface Stream Contamination.** A description of the measures that will be used to avoid or minimize surface stream contamination and changes in the way in which water enters a stream as a result of the construction and development is provided at the end of this form. The measures address increased stream flashing, the creation of stronger flows and in-stream velocities, and other in-stream effects caused by the regulated activity which increases erosion that result in water quality degradation.

Responsibility for maintenance of permanent BMPs and measures after construction is complete.

54. X The applicant is responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred.

55. X A copy of the transfer of responsibility must be filed with the executive director at the appropriate regional office within 30 days of the transfer if the site is for use as a multiple single-family residential development, a multi-family residential development, or a non-residential development such as commercial, industrial, institutional, schools, and other sites where regulated activities occur.

ADMINISTRATIVE INFORMATION

56. X One (1) original and three (3) copies of the complete application has been provided.

57. X Any modification of this Contributing Zone Plan may require TCEQ review and Executive Director approval prior to construction, and may require submission of a revised application, with appropriate fees.

58. X The site description, controls, maintenance, and inspection requirements for the storm water pollution prevention plan (SWPPP) developed under the EPA NPDES general permits for stormwater discharges have been submitted to fulfill paragraphs 30 TAC §213.24(1-5) of the technical report. All requirements of 30 TAC §213.24(1-5) have been met by the SWPPP document.

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **CONTRIBUTING ZONE PLAN APPLICATION** is hereby submitted for TCEQ review and Executive Director approval. The application was prepared by:

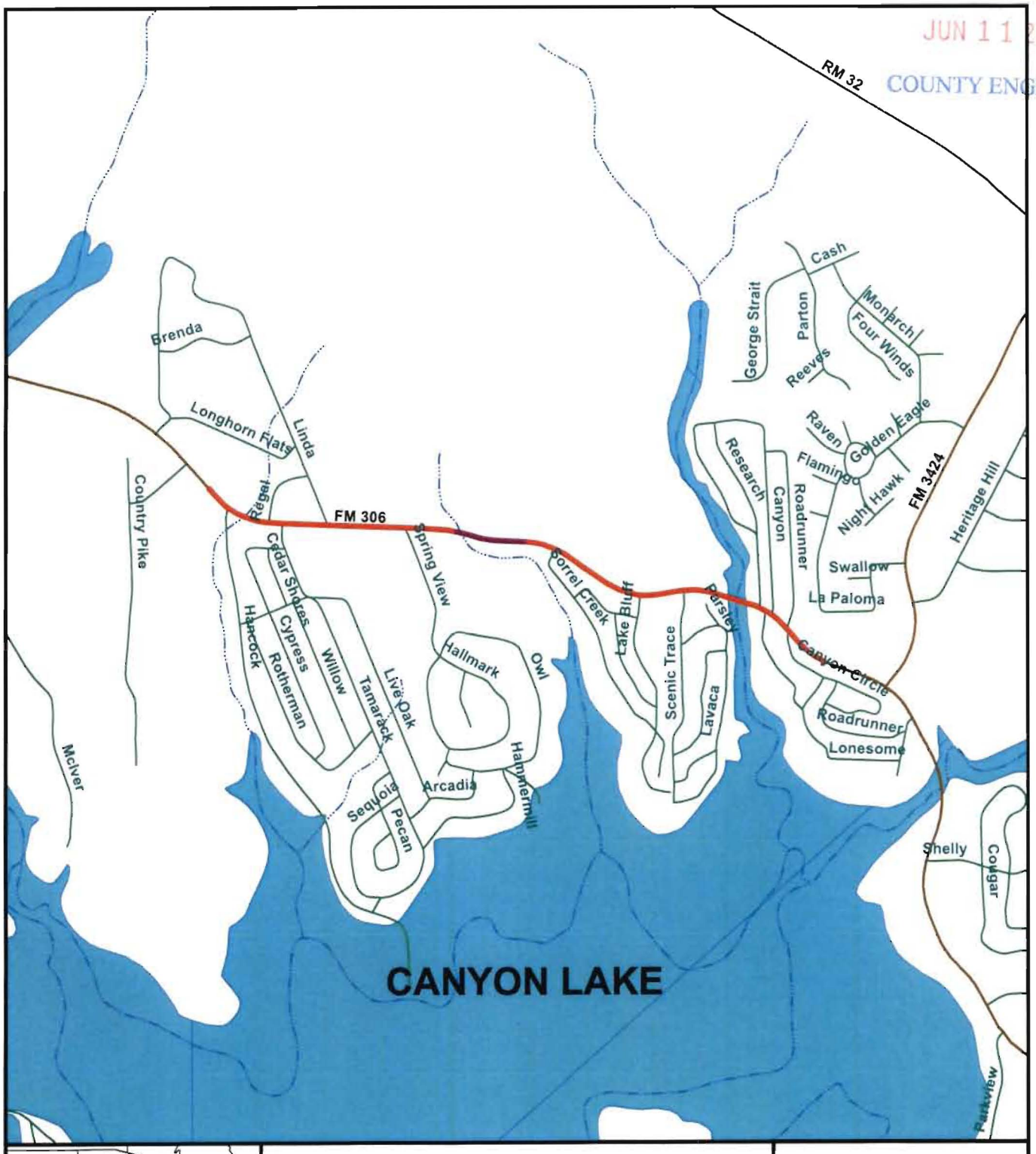
Richard De la Cruz
Print Name of Customer/Agent

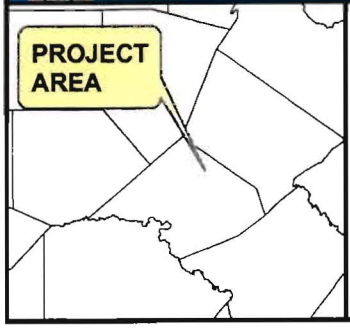
Signature of Customer/Agent

6-3-10
Date

If you have questions on how to fill out this form or about the Edwards Aquifer protection program, please contact us at 210/490-3096 for projects located in the San Antonio Region or 512/339-2929 for projects located in the Austin Region.

Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact us at 512/239-3282.





Legend

Project Limits

- Project Limits
- Exception Limits
- 100 YFP
- 500 YFP

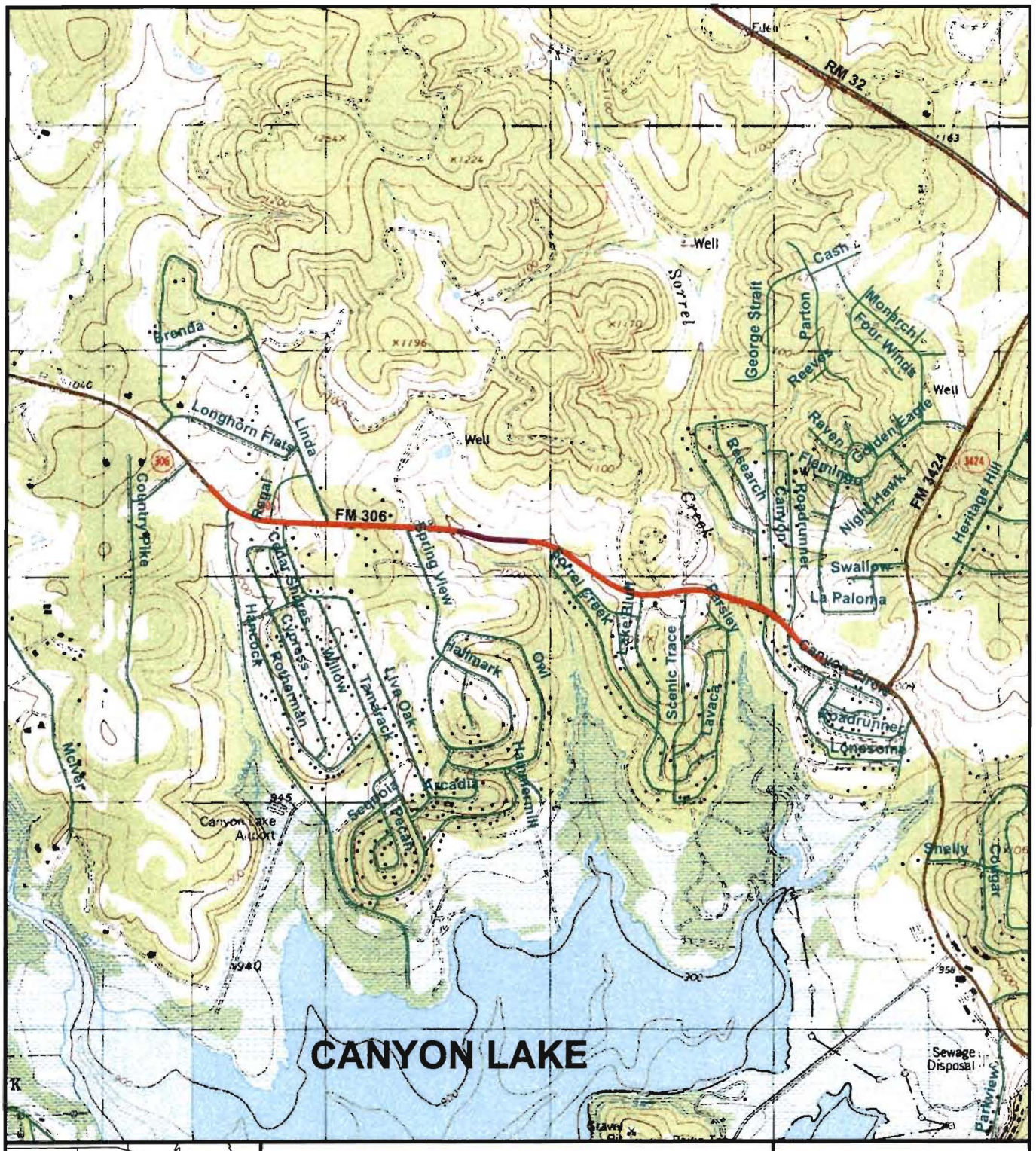
N

0 1,000 2,000

Feet

LOCATION MAP
ATTACHMENT A

FM 306
COMAL
COUNTY, TX
CSJ: 0857-01-027



PROJECT AREA

Legend

Project Limits

- Project Limits
- Exception Limits

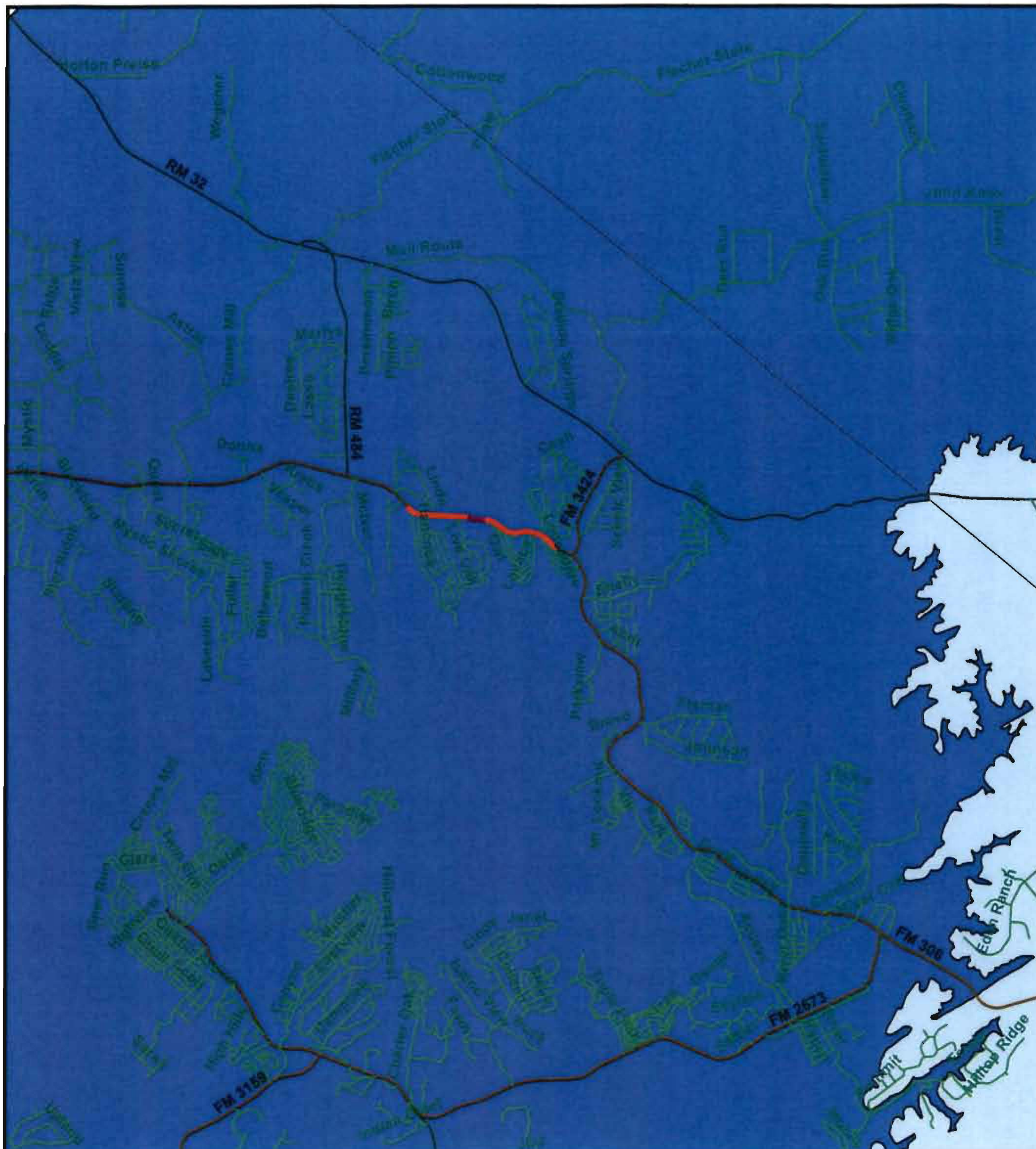
N

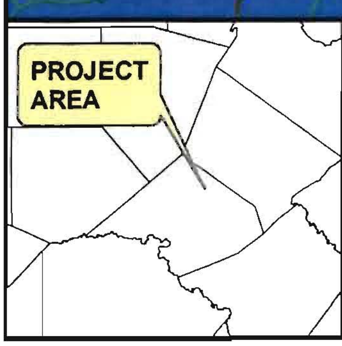
0 1,000 2,000

Feet

USGS QUAD MAP
DEVILS BACKBONE
ATTACHMENT B

FM 306
COMAL
COUNTY, TX
CSJ: 0857-01-027





Legend

Project Limits

- Project Limits
- Exception Limits
- Recharge Zone
- Transition Zone
- Contributing Zone
- Contributing w/in Trans

N

0 5,000 10,000

Feet

CZP MAP
ATTACHMENT B

FM 306
COMAL
COUNTY, TX
CSJ: 0857-01-027

ATTACHMENT C – PROJECT DESCRIPTION

The project limits are from 500 feet west of Hancock Road to approximately 600 feet east of Canyon Acres Road, with an "exception" to construction in the middle of the project for about 1000 feet. The total length of the construction limits of the project are approximately 1.64 miles long.

The proposed project is located in Comal County, Texas. The existing roadway consists of 2 – 12 foot lanes with 6 foot shoulders for a total pavement width of 36 feet. Roadside ditches convey runoff to the drainages along the project. The existing right of way (ROW) is 100 feet wide.

The Texas Department of Transportation (TxDOT) proposes to widen the existing facility approximately 12 feet to add a 12 foot continuous center left turn lane (LTL). The proposed roadway would be 2 – 12 foot lanes with a 12 foot LTL and 6 foot shoulders, for a total pavement width of 48 feet. All work would occur within the existing ROW and there would be no work to any drainage structures, with the exception of replacement of some guardrail.

The permanent BMP shall be constructed and maintained by the Texas Department of Transportation (TxDOT). The permanent BMP shall be vegetative filter strip. The system is designed according to TCEQ Technical Guidance on Best Management Practices.

ATTACHMENT D

FACTORS AFFECTING WATER QUALITY

Potential Sources of Pollutants During Construction

- Soil erosion due to demolition, grubbing, or excavation for roadways, driveways, utilities, and drainage.
- Oil, grease, fuel and hydraulic fluid contamination from construction equipment and vehicle drippings.
- Hydrocarbons from asphalt paving operations.
- Miscellaneous trash and debris from construction and material wrappings.
- Construction debris.

Potential Sources of Pollutants After Construction

- Traffic related pollutants from cars, roads and driveways.
- Improper disposal of trash.

ATTACHMENT E

VOLUME AND CHARACTER OF STORMWATER

The quality of storm water is affected by the quantity and type of traffic using this road. However, this project will not affect the quantity or type of traffic using the road, therefore there should not be any substantive change in pollutant loading. The roadway improvements are intended to increase vehicular safety, and this may result in reduced pollutants being accidentally discharged to the road surface. The runoff coefficient for the site before and after construction is 0.28 and 0.32, respectively.

ATTACHMENT F

SUITABILITY LETTER FOR OSSF'S

This attachment does not apply to this submittal. There will be no sanitary sewer produced with this development.

ATTACHMENT G

ALTERNATIVE SECONDARY CONTAINMENT METHODS

This attachment does not apply to this submittal. There are no secondary containment methods being used.

ATTACHMENT H

AST CONTAINMENT STRUCTURE DRAWINGS

This attachment does not apply to this submittal. There are no AST containment structures proposed.

ATTACHMENT I

20% OR LESS IMPERVIOUS COVER WAIVER

This attachment does not apply to this submittal. The site will exceed 20% impervious cover and will not be used for multi-family residential developments, schools, or small business sites.

ATTACHMENT J

BMP'S FOR UPGRADIENT STORMWATER

Up-gradient flow will not flow across FM 306 pavement. Upgradient flow either passes directly "beneath" the site via roadway culverts or enters roadside ditches before being conveyed to roadway culverts for cross drainage.

ATTACHMENT K

The following sheets labeled Attachment K – BMP's FOR ON-SITE STORMWATER; FM 306 have been completed to meet the requirements of the TCEQ as stated in the "Complying with the Edwards Aquifer Rules: Technical Guidance of Best Management Practices" – July 2005.

6-3-10

Richard L. De La Cruz, P.E., No. 88124

ATTACHMENT L

BMP'S FOR SURFACE STREAMS

This storm water from the site will be treated with vegetative filter strips. The pre-treatment will prevent pollution of surface streams. A geological assessment was not required for the project, since it is located over the Contributing Zone.

ATTACHMENT M

SWPPP

SW3P plans of structural BMP's for the site are on the SW3P plan sheets in Section 3.

ATTACHMENT N

INSPECTION, MAINTENANCE, REPAIR AND RETROFIT PLAN

ATTACHMENT N

INSPECTION, MAINTENANCE, REPAIR AND RETROFIT PLAN

Contributing Zone Maintenance Guidelines
Roadway: FM 306, 500 feet west of Hancock Road to approximately 600 feet east of Canyon Acres Road, with an "exception" to construction in the middle of the project for approximately 1000 feet
Comal County, Tx
CSJ: 0857-01-027

These maintenance guidelines were prepared at the request of the Texas Commission on Environmental Quality (TCEQ) with regard to their approval of an Edwards Aquifer Protection Plan for the above referenced project. These guidelines apply to the portions of the project limits that are subject to the Edwards Aquifer Rules.

Pest management: *Any vegetated areas that have noxious vegetation, insects, or other pests will be remedied with the minimum amount of selective pesticide necessary to control the pest. All chemicals are EPA labeled, registered, and approved. Personnel licensed and/or trained according to Texas Department of Agriculture (TDA) laws and regulations will apply pesticides. Records are kept for each application in accordance with TDA laws and regulations.*

Seasonal mowing and vegetation management: *Right-of-Way areas, which includes the vegetative filter strip BMP for this project, will be mowed by contract. The cutting height is usually 5-7 inches for all areas.*

Inspection cycles: *Maintenance forces will review roadways and roadsides on regular basis, most of which are visited within a weekly cycle. Drainage ditches and structures are inspected after large storms with consideration for any damage to grass cover, litter accumulation, or erosion. Any problem areas are duly noted particularly if there is an absence of vegetation, any accumulation of brush, debris or litter, and/or any areas of significant erosion. These items will then be scheduled for repair on priority basis.*

Debris and litter removal: *Litter, debris and brush accumulation is assessed not only for aesthetic reasons but also for the tendency to clog drainage paths or impede the intended flow of a structure's hydraulic design. Areas are cleaned periodically by state forces or by outside contractor. Areas documented as trouble spots are scheduled on a priority basis.*

Sediment removal: *During inspections if sediment has accumulated to a depth that hinders original design characteristics it will be removed. Excessive sedimentation, or a significant load of silt, does not normally occur in filter strip areas, grassy swale areas, or in permanent pond structures after project completion, but it may occur from other drainage areas or construction underway beyond State right-of-way.*

Maintenance Contact

The Maintenance Supervisor may be contacted for questions or concerns pertaining to maintenance of the facility. The current Maintenance Supervisor whose maintenance section is in charge of this project area may be contacted at the following location:

Mr. Brent Rainosek
TxDOT Department of Transportation
2028 Hwy 46 N
Seguin, Texas
Tel: (830) 303-0130
Fax: (830) 372-5169

Brent Rainosek

ATTACHMENT O

PILOT-SCALE FIELD TESTING PLAN

This attachment does not apply to this submittal. The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMP's and measures on site; therefore, a Pilot-Scale Field Testing Plan is not required.

ATTACHMENT P

MEASURES FOR MINIMIZING SURFACE STREAM CONTAMINATION

The project will install vegetative filter strips to treat the runoff from the impervious surfaces. From these filter strips the run-off travels to grass lined ditches. The treated runoff ultimately discharges into the Canyon Lake discharges.

The project will be constructed pursuant to TCEQ's Construction General Permit No. 150000, and these concerns are addressed by the projects SW3P which is included in this application. The project is not substantially changing the way in which waters enter streams.

ATTACHMENT K - IMPERVIOUS COVER CALCULATIONS

PROJECT NAME	***On FM 306, 500 feet west of Hancock Road to approximately 600 feet east of Canyon Acres Road, with an "exception" to construction in the middle of the project for about 1000 feet.***
	CSJ: 0857-01-027

Length of Project =	1.64 miles	8,680.32 feet	
EXISTING ROW (Area calculated in microstation) =		1,067,410.00 ft^2	24.50 acres
EXISTING ROADWAY (Area calculated in microstation) =		314,609.30 ft^2	7.22 acres
EXISTING DRIVEWAYS (Area calculated in microstation) =		52,985.00 ft^2	1.22 acres
EXISTING RIP-RAP (Area calculated in microstation) =		0.00 ft^2	0.00 acres
TOTAL EXISTING IMPERVIOUS COVER		367,594.30 ft^2	8.44 acres
PROPOSED ROW (Same as existing)		1,067,410.00 ft^2	24.50 acres
PROPOSED ROADWAY (Area calculated in microstation) =		88,366.00 ft^2	2.03 acres
PROPOSED DRIVEWAYS (Area calculated in microstation) =		0.00 ft^2	0.00 acres
PROPOSED RIP-RAP (Area calculated in microstation) =		5,000.00 ft^2	0.11 acres
TOTAL PROPOSED IMPERVIOUS COVER		460,960.30 ft^2	10.58 acres
Pre-Construction Fraction of Impervious Cover (IC)			34.44 %
Post-Construction Fraction of Impervious Cover (IC)			43.18 %
Net increase in Impervious Area (An)		93,366.00 ft^2	2.14 acres

Runoff Coefficient Calculations:

Pre-Construction Runoff

$Rv = 1.72x(IC)^3 - 1.97x(IC)^2 + 1.23x(IC) + 0.02$

$Rv = 1.72x(0..3444)^3 - 1.97x(0..3444)^2 + 1.23x(0.3444) + 0.02$

$Rv = 0.28$

Post-Construction Runoff

$Rv = 1.72x(IC)^3 - 1.97x(IC)^2 + 1.23x(IC) + 0.02$

$Rv = 1.72x(0.4318)^3 - 1.97x(0.4318)^2 + 1.23x(0.4318) + 0.02$

$Rv = 0.32$

STATE OF TEXAS
RICHARD LUIS DE LA CRUZ
88124
LICENSED
PROFESSIONAL ENGINEER

6-3-10

ATTACHMENT K - FM 306 TOTAL IMPERVIOUS COVER STATIONS

Station - Left	Station - Left	AREA (MICROSTATION) - SQ.FT.
560+50	570+50	24000.00
571+50	576+00	10722.34
606+00	610+50	21600.00
611+50	612+00	24000.21
635+50	637+50	4450.56

84,773.11 ft^2

Station - Right	Station - Right	AREA (MICROSTATION) - SQ.FT.
540+73	541+50	1472.17
554+21	557+50	7896.00
558+00	560+00	4800.01
560+39	564+50	9864.00
576+50	578+78	9065.91
600+00	600+50	1200.00
613+00	614+00	4800.00
625+50	626+00	1151.12
626+00	626+50	4628.72
627+50	631+00	16408.32
632+00	632+50	1186.14

62,472.39 ft^2

TOTAL = 3.38 acres

6-3-10

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: ATTACHMENT K - FM 306
Date Prepared: 5/28/2010

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell.
Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348.
Characters shown in red are data entry fields.
Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet.

1. The Required Load Reduction for the total project: Calculations from RG-348 Pages 3-27 to 3-30

Page 3-29 Equation 3.3: $L_M = 27.2(A_N \times P)$

where:

$L_{M\ TOTAL\ PROJECT}$ = Required TSS removal resulting from the proposed development = 80% of increased load
A_N = Net increase in impervious area for the project
P = Average annual precipitation, inches

Site Data: Determine Required Load Removal Based on the Entire Project

County =	Comal	
Total project area included in plan =	24.50	acres
Predevelopment impervious area within the limits of the plan =	8.44	acres
Total post-development impervious area within the limits of the plan =	10.58	acres
Total post-development impervious cover fraction =	0.43	
P =	33	inches

$L_{M\ TOTAL\ PROJECT}$ = **1921** lbs.

STATE OF TEXAS
RICHARD LUIS DE LA CRUZ
88124
LICENSED
PROFESSIONAL ENGINEER

6-3-10

RECEIVED
JUN 11 2010
COUNTY ENGINEER

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: ATTACHMENT K - FM 306
Date Prepared: 5/28/2010

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell.
Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348.
Characters shown in red are data entry fields.
Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet.

1. The Required Load Reduction for the total project: Calculations from RG-348 Pages 3-27 to 3-30

Page 3-29 Equation 3.3: $L_M = 27.2(A_N \times P)$

where:

$L_{M\ TOTAL\ PROJECT}$ = Required TSS removal resulting from the proposed development = 80% of increased load
A_N = Net increase in impervious area for the project
P = Average annual precipitation, inches

Site Data: Determine Required Load Removal Based on the Entire Project

County =	Comal	
Total project area included in plan =	**24.50**	acres
Predevelopment impervious area within the limits of the plan =	**0.00**	acres
Total post-development impervious area within the limits of the plan =	**3.38**	acres
Total post-development impervious cover fraction =	**0.14**	
P =	**33**	inches

$L_{M\ TOTAL\ PROJECT}$ = **3034** lbs.

STATE OF TEXAS
RICHARD LUIS DE LA CRUZ
88124
LICENSED
PROFESSIONAL ENGINEER

6-3-10

ATTACHENT K - LOADING SUMMARY ANALYSIS

On FM 306, 500 feet west of Hancock Road to approximately 600 feet east of Canyon Acres Road, with an "exception" to construction in the middle of the project for about 1000 feet.

Project Name:

CSJ: 0857-01-024

Summary:

TSS reduction requirements for the project =	1,921 lbs/yr
Load removed from vegetated filter strips that meet the width and slope criteria =	3,034 lbs/yr

Conclusion:

The required TSS load reduction for the project is 1,921 lbs/yr. For the engineered vegetated filter strips that met the width and slope criteria, the strips would remove 3,034 lbs/year, which exceeds the project load removal requirements.

TCEQ

TCEQ Use Only

TCEQ Core Data Form

For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission *(If other is checked please describe in space provided)*

☒ New Permit, Registration or Authorization *(Core Data Form should be submitted with the program application)*

☐ Renewal *(Core Data Form should be submitted with the renewal form)* ☐ Other

2. Attachments **Describe Any Attachments:** *(ex. Title V Application, Waste Transporter Application, etc.)*

☒Yes ☐No Contributing Zone Plan

3. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	4. Regulated Entity Reference Number *(if issued)*
CN 600803456		RN

SECTION II: Customer Information

5. Effective Date for Customer Information Updates (mm/dd/yyyy) 6/2/2010

6. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check only one of the following:*

☐Owner ☐ Operator ☒ Owner & Operator
☐Occupational Licensee ☐ Responsible Party ☐ Voluntary Cleanup Applicant ☐Other: _____

7. General Customer Information

☐ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership
☐Change in Legal Name (Verifiable with the Texas Secretary of State) ☒ No Change**

If "No Change" and Section I is complete, skip to Section III – Regulated Entity Information.

8. Type of Customer:	☐ Corporation	☐ Individual	☐ Sole Proprietorship- D.B.A
☐ City Government	☐ County Government	☐ Federal Government	☐ State Government
☐ Other Government	☐ General Partnership	☐ Limited Partnership	☐ Other:

9. Customer Legal Name *(If an individual, print last name first: ex: Doe, John)* *If new Customer, enter previous Customer below* *End Date:*

10. Mailing Address:

City	State	ZIP	ZIP + 4

11. Country Mailing Information *(if outside USA)*

12. E-Mail Address *(if applicable)*

13. Telephone Number ( ) -

14. Extension or Code

15. Fax Number *(if applicable)* ( ) -

16. Federal Tax ID *(9 digits)*	17. TX State Franchise Tax ID *(11 digits)*	18. DUNS Number*(if applicable)*	19. TX SOS Filing Number *(if applicable)*

20. Number of Employees

☐ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher

21. Independently Owned and Operated?

☐ Yes ☐ No

SECTION III: Regulated Entity Information

22. General Regulated Entity Information *(If 'New Regulated Entity" is selected below this form should be accompanied by a permit application)*

☒ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information ☐ No Change** *(See below)*

**If "NO CHANGE" is checked and Section I is complete, skip to Section IV, Preparer Information.

23. Regulated Entity Name *(name of the site where the regulated action is taking place)*

FM 306

24. Street Address of the Regulated Entity: *(No P.O. Boxes)*	NA							
	NA							
	City	San Antonio	**State**	TX	**ZIP**	0	**ZIP + 4**	0
25. Mailing Address:	TxDOT							
	PO Box 29928							
	City	San Antonio	**State**	TX	**ZIP**	78229	**ZIP + 4**	928

26. E-Mail Address:		
27. Telephone Number	**28. Extension or Code**	**29. Fax Number** *(if applicable)*
(210) 615-6024		(210) 615-6295

30. Primary SIC Code (4 digits)	**31. Secondary SIC Code** (4 digits)	**32. Primary NAICS Code** (5 or 6 digits)	**33. Secondary NAICS Code** (5 or 6 digits)
NA	NA	NA	

34. What is the Primary Business of this entity? *(Please do not repeat the SIC or NAICS description.)*

Regulated entity is a road; no SIC code applies to the road.

Questions 34 – 37 address geographic location. Please refer to the instructions for applicability.

35. Description to Physical Location:	On FM 306, 500 feet west of Hancock Road to approximately 600 feet east of Canyon Acres Road, with an "exception" to construction in the middle of the project for about 1000 feet.

36. Nearest City	**County**	**State**	**Nearest ZIP Code**
New Braunfels	Comal	Tx	78132

37. Latitude (N) In Decimal:	29.93221801		**38. Longitude (W) In Decimal:**	98.24845254	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
29	55	56	98	14	54

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form or the updates may not be made. If your Program is not listed, check other and write it in. See the Core Data Form instructions for additional guidance.

☐ Dam Safety	☐ Districts	☒ Edwards Aquifer	☐ Industrial Hazardous Waste	☐ Municipal Solid Waste
		NA		
☐ New Source Review – Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS	☐ Sludge
☐ Stormwater	☐ Title V – Air	☐ Tires	☐ Used Oil	☐ Utilities
☐ Voluntary Cleanup	☐ Waste Water	☐ Wastewater Agriculture	☐ Water Rights	☐ Other:

SECTION IV: Preparer Information

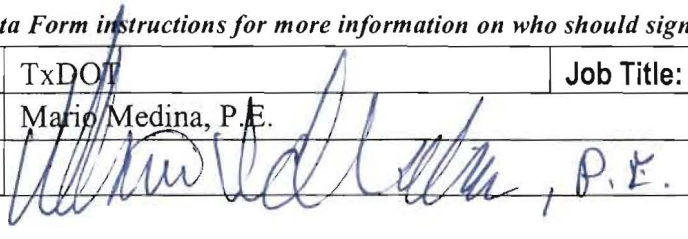
40. Name:	Richard De La Cruz, P.E.	**41. Title:**	Transportation Engineer

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(210) 615-6024		(210) 615-6295	rdelacr@dot.state.tx.us

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 9 and/or as required for the updates to the ID numbers identified in field 39.

(See the Core Data Form instructions for more information on who should sign this form.)

Company:	TxDOT	**Job Title:**	District Engineer
Name *(In Print)* :	Mario Medina, P.E.	**Phone:**	(210) 615-5801
Signature:		**Date:**	6/3/2010

Notice of Intent (NOI) for Storm Water Discharges Associated with Construction Activity under TPDES General Permit (TXR150000)

TCEQ Office Use Only
Permit No.:
RN:
CN:

Sign up now for on line NOI at http://www.tceq.state.tx.us/permitting/steers/steers.html Get Instant Approval

Did you know you can pay on line? Go to https://www6.tceq.state.tx.us/epay/
Select Fee Type: GENERAL PERMIT CONSTRUCTION STORM WATER DISCHARGE NOI APPLICATION

Application Fee: You must pay the $100 Application Fee to TCEQ for the application to be considered complete.
How did you pay this fee?

Mailed: ☐	Check/Money Order No.:	Name Printed on Check:
EPAY: ☐	Voucher No.:	Is the Payment Voucher copy attached? ☐ Yes

IMPORTANT:
•Use the attached **INSTRUCTIONS** when completing this form.
•After completing this form, use the attached **CUSTOMER CHECKLIST** to make certain all items are complete and accurate.
•Missing, illegible, or inaccurate items may delay final acknowledgment or coverage under the general permit.

A. OPERATOR (applicant)

1. If the applicant is currently a customer with TCEQ, what is the Customer Number (CN) issued to this entity? **CN** 600803456

2. What is the full Legal Name of the applicant?
Texas Department of Transportation
(The legal name must be spelled exactly as filed with the Texas Secretary of State, County, or in the legal document forming the entity.)

3. What is the applicant's mailing address as recognized by the **US Postal Service**?

Address: PO Box 29928	Suite No./Bldg. No./Mail Code:	
City: San Antonio	State: Texas	ZIP Code: 78229-0928
Country Mailing Information (if outside USA).	Country Code:	Postal Code:

4. Phone No.: (210) 615-6024	Extension:
5. Fax No.: (210) 615-6295	E-mail Address: rdelacr@dot.state.tx.us

6. Indicate the type of Customer:

☐ Individual	☐ Sole Proprietorship-D.B.A.	☐ Limited Partnership
☐ Corporation	☐ Federal Government	☐ General Partnership
☑ State Government	☐ County Government	☐ City Government
☐ Other:		

7. Independent Operator: ☐ Yes ☑ No (If governmental entity, subsidiary, or part of a larger corporation, check "No".)

8. Number of Employees: ☐ 0-20; ☐ 21-100; ☐ 101-250; ☐ 251-500; or ☑ 501 or higher

9. Customer Business Tax and Filing Numbers *(This item is not applicable to Individuals, Government, GP or Sole Proprietor.)*
REQUIRED for Corporations and Limited Partnerships

State Franchise Tax ID Number: 17460001708	Federal Tax ID: 746000170
TX SOS Charter (filing) Number:	DUNS Number (if known):

B. BILLING ADDRESS

The Operator is responsible for paying the annual fee. The annual fee will be assessed to permits **active on September 1 of each year.** TCEQ will send a bill to the address provided in this section. The Operator is responsible for terminating the permit when it is no longer needed.

Is the billing address same as the Operator Address? ☑ Yes, go to **Section C.** ☐ No, fill out **Section B**

1. Billing Mailing Address:	Suite No./Bldg. No./Mail Code:	
City:	State:	ZIP Code:
2. Country Mailing Information (if outside USA). Territory:	Country Code:	Postal Code:
3. Billing Contact (Attn or C/O):		
4. Phone No.: ( )	Extension:	
5. Fax No.: ( )	E-mail Address:	

C. APPLICATION CONTACT

If TCEQ needs additional information regarding this application, who should be contacted?

1. Name: Richard De La Cruz	Title: Transportation Engineer	Company: TxDOT
2. Phone No.: (210) 615-6024	Extension:	
3. Fax No.:	E-mail Address: rdelacr@dot.state.tx.us	

D. REGULATED ENTITY (RE) INFORMATION ON PROJECT OR SITE

1. TCEQ Issued RE Reference Number (RN) (if available): 102804804

2. Name of Project or Site (the name as known by the community where this facility/project is located):

FM 306, 500 feet west of Hancock Road to approximately 600 feet east of Canyon Acres Road, 0857-01-027

(example: phase and name of subdivision or name of project that's unique to the site)

3. Physical Address of Project or Site: (enter in spaces below)

Street Number:	Street Name:	
City:	ZIP Code:	County (Counties if >1):

4. If no physical address (Street Number & Street Name), provide a written location access description to the site:
(Ex.: phase 1 of Woodland subdivision located 2 miles west from intersection of Hwy 290 & IH35 accessible on Hwy 290 South)

5. Latitude: 29 53' 24.15" N	Longitude: 98 14' 47.71" W

6. What is the primary business of this entity? In your own words, briefly describe the primary business of the Regulated Entity:
(Do not repeat the SIC and NAICS code) Roadway Design, Maintenance and Construction

7. What is the mailing address and contact information for the regulated entity?

Is the RE mailing address the same as the Operator? ☐ Yes, address is the same as Operator ☑ No, provide the address

Street Number: 4102	Street Name: IH 35 South	
City: New Braunfels	State: Texas	ZIP Code:

E. GENERAL CHARACTERISTICS

1. I certify that the project/site is **not** located on Indian Country Lands? ☑ Yes ☐ No
If No, you must obtain authorization through EPA, Region VI.

2. Is this NOI being submitted due to a change in Operator? ☐ Yes ☑ No

3. What is the Standard Industrial Classification (SIC) code (see instructions for common codes):

Primary: Secondary:

4. What is the total number of acres disturbed? 10.00

Is the project site part of a larger common plan of development or sale? ☐ Yes ☑ No

If **Yes**, the total number of acres disturbed can be less than 5 acres.

If **No**, the total number of acres disturbed must be 5 or more. If the total number of acres disturbed is less than 5 then the project site does not qualify for coverage through this Notice of Intent. Coverage will be denied. See the requirements in the general permit for small construction sites.

5. Discharge Information

a. What is the name of the first water body to receive the storm water runoff or potential runoff from the site?

b. What is the segment number(s) of the classified water body(s) that the discharge or potential discharge will eventually reach?

c. Is the discharge into an MS4? ☐ Yes ☑ No

If **Yes**, what is the name of the MS4 Operator?

Note: The general permit requires you to send a copy of the NOI to the MS4 Operator.

6. Is the discharge or potential discharge within the Recharge Zone, Contributing Zone, or Contributing Zone within the Transition Zone of the Edwards Aquifer? ☑ Yes ☐ No

If the answer is Yes, please note that a copy of the agency approved Plan required by the Edwards Aquifer Rule (30 TAC Chapter 213) must be included in the Storm Water Pollution Prevention Plan.

F. CERTIFICATION

Check "Yes" to the certifications below. **Failure to indicate "Yes" to ALL items** may result in denial of coverage under the general permit.

I certify that I have obtained a copy and understand the terms and conditions of the general permit TX150000.	☑ Yes
I certify that the activities at this site qualify for coverage under the general permit TX150000.	☑ Yes
I understand that a Notice of Termination (NOT) must be submitted when this authorization is no longer needed.	☑ Yes
I understand that permits active on September 1st of each year will be assessed an Annual Water Quality Fee.	☑ Yes
I certify that a Storm Water Pollution Prevention Plan (SWP3) has been prepared and implemented as required by the general permit.	☑ Yes

Operator Certification:

I, _____ _____
Typed or printed name ***(Required)*** Title ***(Required)***

certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that I am authorized under **30 Texas Administrative Code §305.44** to sign and submit this document, and can provide documentation in proof of such authorization upon request.

Signature:_____ Date: _____
(Use blue ink)

Agent Authorization Form
For Required Signature
Edwards Aquifer Protection Program
Relating to 30 TAC Chapter 213
Effective June 1, 1999

I Mr. Mario Medina, P.E.,
Print Name

District Engineer,
Title - Owner/President/Other

of Texas Department of Transportation San Antonio, Texas,
Corporation/Partnership/Entity Name

have authorized Richard Luis De La Cruz
Print Name of Agent/Engineer

of Texas Department of Transportation San Antonio, Texas
Print Name of Firm

to represent and act on the behalf of the above named Corporation, Partnership, or Entity for the purpose of preparing and submitting this plan application to the Texas Commission on Environmental Quality (TCEQ) for the review and approval consideration of regulated activities.

I also understand that:

1. The applicant is responsible for compliance with 30 Texas Administrative Code Chapter 213 and any condition of the TCEQ's approval letter. The TCEQ is authorized to assess administrative penalties of up to $10,000 per day per violation.

2. For those submitting an application who are not the property owner, but who have the right to control and possess the property, additional authorization is required from the owner.

3. Application fees are due and payable at the time the application is submitted. The application fee must be sent to the TCEQ cashier or to the appropriate regional office. The application will not be considered until the correct fee is received by the commission.

4. A notarized copy of the Agent Authorization Form must be provided for the person preparing the application, and this form must accompany the completed application.

5. No person shall commence any regulated activity on the Edwards Aquifer Recharge Zone, Contributing Zone or Transition Zone until the appropriate application for the activity has been filed with and approved by the Executive Director.

RECEIVED
JUN 11 2010
COUNTY ENGINEER

SIGNATURE PAGE:

Applicant's Signature

6/4/10
Date

THE STATE OF Texas §

County of Bexar §

BEFORE ME, the undersigned authority, on this day personally appeared Mario G. Medina known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that (s)he executed same for the purpose and consideration therein expressed.

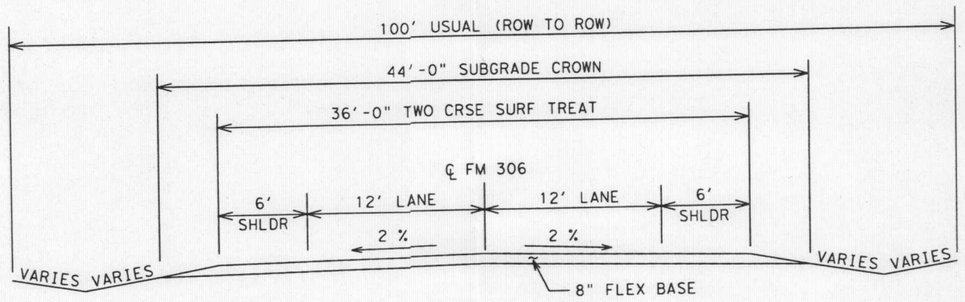
GIVEN under my hand and seal of office on this 4th day of June, 2010.

NOTARY PUBLIC

DAVID L. BULLERWELL
NOTARY PUBLIC
State of Texas
Comm. Exp. 04-09-2011
Notary without Bond

David L. Bullerwell
Typed or Printed Name of Notary

MY COMMISSION EXPIRES: 04-09-2011



EXISTING TYPICAL SECTION FM 306

STA. 540+72.00 TO STA. 578+79.00
STA. 589+46.00 TO STA. 637+52.00

STATE OF TEXAS
GREGG A. GRANATO
87723
LICENSED
PROFESSIONAL ENGINEER

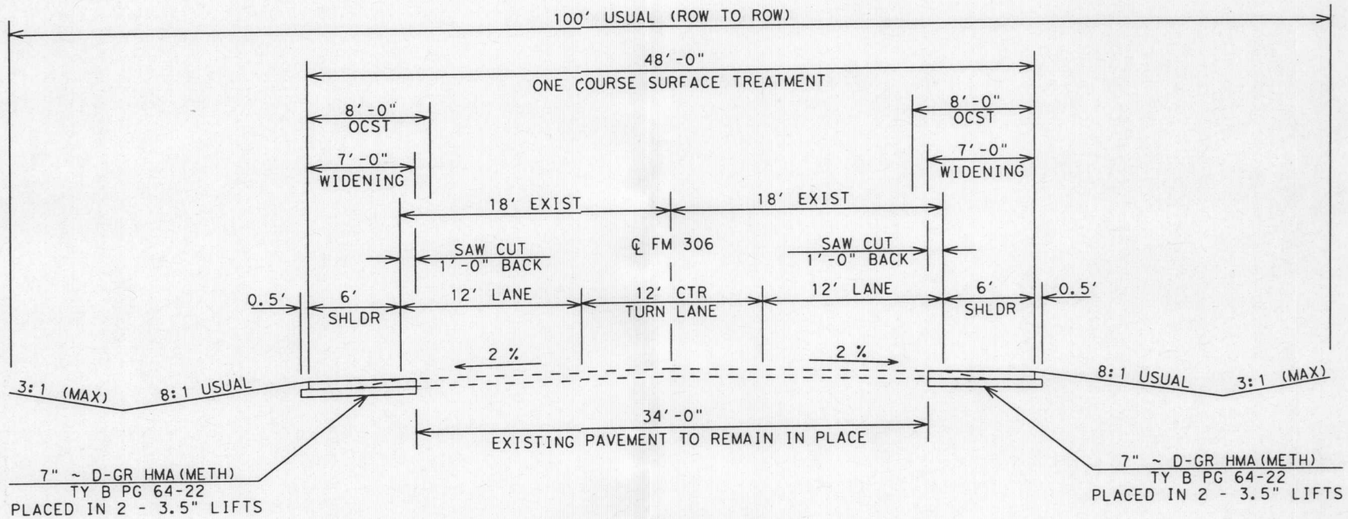
Gregg A. Granato, P.E. 6/3/10

NOT TO SCALE

SHEET 1 OF 2

FM 306
EXISTING TYPICALS

FHWA TEXAS DIVISION	FEDERAL AID PROJECT NO.		SHEET NO.
	C 857-1-27		9
STATE	DISTRICT	COUNTY	
01	SAT	COMAL	
CONTROL	SECTION	JOB	HIGHWAY NO.
0857	0857	027	FM 306



PROPOSED TYPICAL SECTION FM 306

USED APPROX.
STA. 540+72.00 TO STA. 578+79.00
STA. 589+46.00 TO STA. 637+52.00

STATE OF TEXAS
GREGG A. GRANATO
87723
LICENSED
PROFESSIONAL ENGINEER

Gregg A. Granato, P.E.
6/3/10

NOT TO SCALE

 Texas Department of Transportation

SHEET 2 OF 2

FHWA TEXAS DIVISION	FEDERAL AID PROJECT NO.		SHEET NO.
	C 857-1-27		10
STATE	DISTRICT	COUNTY	
01	SAT	COMAL	
CONTROL	SECTION	JOB	HIGHWAY NO.
0857	0857	027	FM 306

FM 306
PROPOSED TYPICALS

Note To Designer:
1. Do not alter Sheet Design or Font style, size or weight - match text attributes.
2. If additional space is needed for a numbered section, fence and adjust sections up or down as needed for proportioning and readability but do not relocate from it's relative position.

A. GENERAL SITE DATA

1. PROJECT LIMITS: *Same as stated on the Title Sheet*

2. PROJECT SITE MAPS:

- *Project Latitude 29° 53' 24.15" N Project Longitude 98° 14' 47.71" W*
- *Project Location Map: Shown on Title Sheet*
- *Drainage Patterns: Shown on Drainage Area Maps (Sheets X-Y)*
- *Approx. Slopes Anticipated After Major Gradings and Areas of Soil Disturbance: Shown on Typical Sections (Sheets X-Y)*
- *Major Controls and Locations of Stabilization Practices: Shown on SW3P Sheets (Sheets X-Y)*
- *Project Specific Locations: Off-site waste, borrow, or storage areas are not part of this SW3P.*
- *Surface Waters and Discharge Locations: Shown on Drainage and Culvert Layout Sheets (Sheets X-Y)*

3. PROJECT DESCRIPTION: *Same description as stated on Title Sheet*

4. FOR MAJOR SOIL DISTURBING ACTIVITIES SEQUENCE OF EVENTS:

1. *Install controls down-slope of work area and initiate inspection and maintenance activities.*
2. *Begin phased construction with interim stabilization practices. Adjust erosion and sedimentation controls during construction to meet requirements and changing conditions and as directed/approved by the Engineer.*
3. *Major soil disturbing activities may include but are not limited to: right-of-way preparation, cut and/or fill to improve roadway profile, final grading and placement of topsoil and the following (if marked):*

   _X_ *Placement of road base*
   _X_ *Exstensive ditch grading*
   ___ *Upgrading or replacing culverts or bridges*
   ___ *Temporary detour road(s)*
   ___ *Other:* _____

5. EXISTING AND PROPOSED CONDITIONS:

Description of existing vegetative cover: (Provide type and description of vegetative cover)
Percentage of existing vegetative cover: (Provide percentage)
Existing vegetative cover: (mark one)
___ *Thick or uniformly established*
_X_ *Thin and Patchy*
___ *None or minimal cover*

Description of soils: BRACKETT-COMFORT-REAL Shallow, undulating to steep soils over limestone or strongly cemented chalk, on uplands of Edwards Plateau.

Site Acreage: 25 AC *Acreage disturbed: 10 AC*
Site runoff coefficient (pre-construction): 0.49 *Site runoff coefficient (post-construction): 0.57*

6. RECEIVING WATERS: *(Mark all that apply)*

_X_ *A classified stream does not pass through project.*
___ *A classified stream passes through project. Name* _____ *Segment Number* _____

Name of receiving waters that will receive discharges from disturbed areas of the project: Segment 1805 of the Guadalupe River (i.e. Canyon Lake)

Site is in a Municipal Separate Storm Sewer System (MS4).
MS4 Operator (name): TxDOT

B. BEST MANAGEMENT PRACTICES

General timing or sequence for implementation of BMPs shall be as required and/or as directed/approved by the Engineer to provide adequate controls. BMPs shown on plan sheets are to be considered "proposed" unless/until install date is shown. BMPs are to reduce sediments from road construction activities.

1. SOIL STABILIZATION PRACTICES: (Select T = Temporary or P = Permanent, as applicable)

T/P SEEDING
___ MULCHING (Hay or Straw)
___ BUFFER ZONES
___ PLANTING
___ COMPOST/MULCH FILTER BERM
___ SODDING

T/P PRESERVATION OF NATURAL RESOURCES
___ FLEXIBLE CHANNEL LINER
___ RIGID CHANNEL LINER
T SOIL RETENTION BLANKET
P COMPOST MANUFACTURED TOPSOIL
___ OTHER: (Specify Practice)

2. STRUCTURAL PRACTICES: (Select T = Temporary or P = Permanent, as applicable)

T SILT FENCES
___ HAY BALES
T ROCK FILTER DAMS
___ DIVERSION, INTERCEPTOR, OR PERIMETER DIKES
___ DIVERSION, INTERCEPTOR, OR PERIMETER SWALES
___ DIVERSION DIKE AND SWALE COMBINATIONS
___ PIPE SLOPE DRAINS
___ PAVED FLUMES
T ROCK BEDDING AT CONSTRUCTION EXIT
___ TIMBER MATTING AT CONSTRUCTION EXIT
___ CHANNEL LINERS
___ SEDIMENT TRAPS
___ SEDIMENT BASINS
___ STORM INLET SEDIMENT TRAP
___ STONE OUTLET STRUCTURES
___ CURBS AND GUTTERS
___ STORM SEWERS
P VELOCITY CONTROL DEVICES
___ OTHER: *(Specify Practice)*

3. STORM WATER MANAGEMENT:

The proposed facility was designed in consideration of hydraulic design standards to convey stormwater in a manner that is protective of public safety and property. The control of erosion from the facility is inherent to the design. Additional factors affecting post-construction stormwater at the project location include: (mark all that apply)

_X_ *Existing or new vegetation provides natural filtration.*
_X_ *The design includes provisions for permanent erosion controls provided by strategically placed pervious and impervious surfaces.*
___ *Project includes permanent sedimentation controls (other than grass).*
___ *Velocities do not require dissipation devices.*
_X_ *Velocity-dissipation devices included in the design.*
___ *Other :* _____

4. NON-STORM WATER DISCHARGES:

Off-site discharges are prohibited except as follows:

1. *Discharges from fire fighting activities and/or fire hydrant flushings.*
2. *Vehicle, external building, and pavement wash water where detergents and soaps are not used and where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed).*
3. *Plain water used to control dust.*
4. *Plain water originating from potable water sources.*
5. *Uncontaminated groundwater, spring water or accumulated stormwater.*
6. *Foundation or footing drains where flows are not contaminated with process materials such as solvents.*
7. *Other:* _____

Concrete truck wash water discharges on the site should be prohibited or minimized. If allowed by the Engineer, they must be managed in a manner so as not to contaminate surface water. They must not be located in areas of concentrated flow. Concrete truck wash-out locations must be shown on the SW3P Layout and included in the inspections.

Hazardous material spill/leak shall be prevented or minimized. At a minimum, this includes asphalt products, fuels, oils, lubricants, solvents, paints, acids, concrete curing compounds and chemical additives for soil stabilization. BMPs shall be implemented to the storage areas of these products. All spills must be cleaned and disposed properly and reported to the Engineer. Report any release at or above the reportable quantity during a 24 hour period to the National Response Center at 1-800-424-8802.

C. OTHER REQUIREMENTS & PRACTICES

1. MAINTENANCE:

All erosion and sediment controls shall be maintained in good working order. If a repair is necessary, it shall be performed before the next anticipated storm event but no later than 7 calendar days after the surrounding exposed ground has dried sufficiently to prevent further damage from equipment. If maintenance prior to the next anticipated storm event is impracticable, maintenance must be scheduled and accomplished as soon as practicable. Disturbed areas on which construction activities have ceased, temporarily or permanently, shall be stabilized within 14 calendar days unless they are scheduled to and do resume within 21 calendar days. The areas adjacent to creeks and drainageways shall have priority followed by protecting storm sewer inlets.

2. INSPECTION:

For areas of the construction site that have not been finally stabilized, areas used for storage of materials, structural control measures, and locations where vehicles enter or exit the site, personnel provided by the permittee and familiar with the SW3P must inspect disturbed areas at least once every fourteen (14) calendar days and within twenty four (24) hours of the end of a storm of 0.5 inches or greater As an alternative to the above-described inspection schedule of once every fourteen (14) calendar days and within twenty four (24) hours of a storm of 0.5 inches or greater, the SW3P may be developed to require that these inspections will occur at least once every seven (7) calendar days. If this alternative schedule is developed, the inspection must occur on a specifically defined day, regardless of whether or not there has been rainfall since the previous inspection An inspection and Maintenance Report shall be prepared for each inspection and the controls shall be revised on the SW3P within seven (7) calendar days following the inspection.

3. WASTE MATERIALS:

All non-hazardous municipal waste materials such as litter, rubbish, trash and garbage located on or originating from the project shall be collected and stored in a securely lidded metal dumpster, provided by the Contractor. The dumpster shall be emptied as necessary or as required by local regulation and the trash shall be hauled to a permitted disposal facility. The burying of non-hazardous municipal waste on the project shall not be permitted. Construction material waste sites, stockpiles and haul roads shall be constructed to minimize and control the amount of sediment that may enter receiving waters. Construction material waste sites shall not be located in any wetland, water body or stream bed. Construction staging areas and vehicle maintenance areas shall be constructed in a manner to minimize the runoff of pollutants.

4. OFFSITE VEHICLE TRACKING:

Off-site vehicle tracking of sediments and the generation of dust must be minimized. Excess sediments on road shall be removed on a regular basis as directed/approved by the Engineer.

5. OTHER:

See the EPIC sheet for additional environmental information.

STATE OF TEXAS
RICHARD DE LA CRUZ
88124
LICENSED PROFESSIONAL ENGINEER

_____, P.E. 6-3-10
Signature of Registrant & Date

REVISION DATE: 08/04

 Texas Department of Transportation

STORM WATER POLLUTION PREVENTION PLAN (SW3P)

FED. RD. DIV. NO.	FEDERAL AID PROJECT NO.		HIGHWAY NO.
6	C 857-1-27		FM 306
STATE	DISTRICT	COUNTY	
TEXAS	SAT	COMAL	
CONTROL	SECTION	JOB	SHEET NO.
0857	01	027	133

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
CONTRIBUTING ZONE PLAN
GENERAL CONSTRUCTION NOTES

1. Written construction notification must be given to the appropriate TCEQ regional office no later than 48 hours prior to commencement of the regulated activity. Information must include the date on which the regulated activity will commence, the name of the approved plan for the regulated activity, and the name of the prime contractor and the name and telephone number of the contact person.

2. All contractors conducting regulated activities associated with this project must be provided with complete copies of the approved Water Pollution Abatement Plan and the TCEQ letter indicating the specific conditions of its approval. During the course of these regulated activities, the contractors are required to keep on-site copies of the approved plan and approval letter.

3. If any sensitive feature is discovered during construction, all regulated activities near the sensitive feature must be suspended immediately. The appropriate TCEQ regional office must be immediately notified of any sensitive features encountered during construction. The regulated activities near the sensitive feature may not proceed until the TCEQ has reviewed and approved the methods proposed to protect the sensitive feature and the Edwards Aquifer from any potentially adverse impacts to water quality.

4. No temporary aboveground hydrocarbon and hazardous substance storage tank system is installed within 150 feet of a domestic, industrial, irrigation, or public water supply well, or other sensitive feature.

5. Prior to commencement of construction, all temporary erosion and sedimentation (E&S) control measures must be properly selected, installed, and maintained in accordance with the manufacturers specifications and good engineering practices. Controls specified in the temporary storm water section of the approved Edwards Aquifer Protection Plan are required during construction. If inspections indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations. The controls must remain in place until disturbed areas are revegetated and the areas have become permanently stabilized.

6. If sediment escapes the construction site, off*site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).

7. Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake must be provided that can indicate when the sediment occupies 50% of the basin volume.

8. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

9. All spoils (excavated material) generated from the project site must be stored on-site with proper E&S controls. For storage or disposal of spoils at another site on the Edwards Aquifer Recharge Zone, the owner of the site must receive approval of a water pollution abatement plan for the placement of fill material or mass grading prior to the placement of spoils at the other site.

10. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. Where the initiation of stabilization measures by the 14th day after construction activity temporary or permanently cease is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable. Where construction activity on a portion of the site is temporarily ceased, and earth disturbing activities will be resumed within 21 days, temporary stabilization measures do not have to be initiated on that portion of site. In areas experiencing droughts where the initiation of stabilization measures by the 14th day after construction activity has temporarily or permanently ceased is precluded by seasonal arid conditions, stabilization measures shall be initiated as soon as practicable.

11. The following records shall be maintained and made available to the TCEQ upon request: the dates when major grading activities occur; the dates when construction activities temporarily or permanently cease on a portion of the site; and the dates when stabilization measures are initiated.

12. The holder of any approved Edward Aquifer protection plan must notify the appropriate regional office in writing and obtain approval from the executive director prior to initiating any of the following:

    A. any physical or operational modification of any water pollution abatement structure(s), including but not limited to ponds, dams, berms, sewage treatment plants, and diversionary structures;

    B. any change in the nature or character of the regulated activity from that which was originally approved or a change which would significantly impact the ability of the plan to prevent pollution of the Edwards Aquifer;

    C. any development of land previously identified as undeveloped in the original water pollution abatement plan.

Austin Regional Office 1921 Cedar Bend, Suite 150 Austin, Texas 78758-5336 Phone (512) 339-2929 Fax (512) 339-3795	San Antonio Regional Office 14250 Judson Road San Antonio, Texas 78233-4480 Phone (210) 490-3096 Fax (210) 545-4329

13. The Contractor is required to remediate any spills and to immediately report spills (including sanitary sewer discharge) of reportable quantities to the TxDOT Engineer and to the following agencies:

    *National Response Center at (800) 424-8802
    *Edwards Aquifer Authority at (210) 490-3096
    *State Emergency Response Center (800) 832-8224 (if after hours)
    *TCEQ Regional Office at (210) 490-3096 (if during business hours)

    Report spills within 24 hours unless other regulations require more expedient notification.

THESE GENERAL CONSTRUCTION NOTES MUST BE INCLUDED ON THE CONSTRUCTION PLANS PROVIDED TO THE CONTRACTOR AND ALL SUBCONTRACTORS.

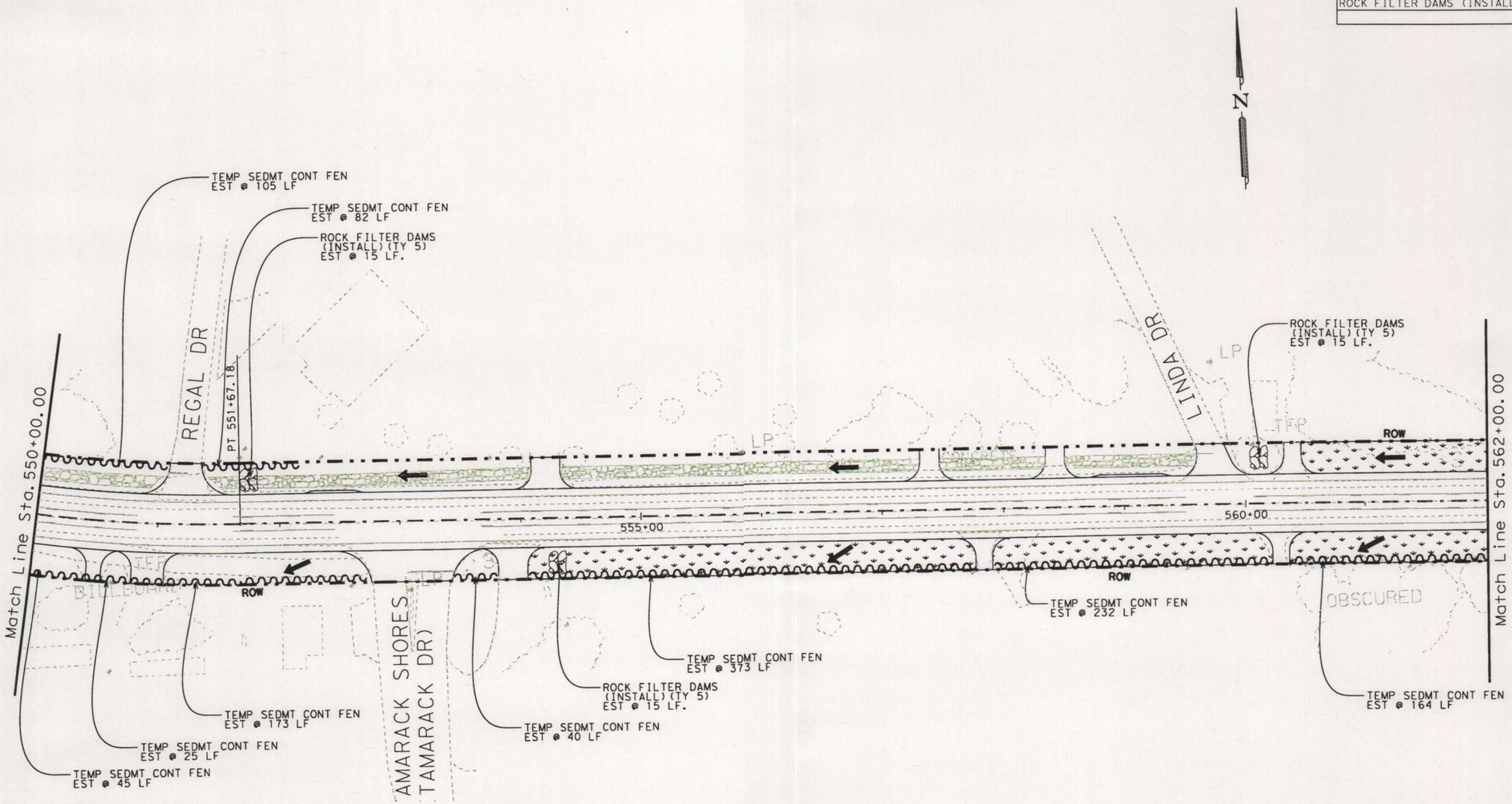
STATE OF TEXAS
RICHARD DE LA CRUZ
88124
LICENSED
PROFESSIONAL ENGINEER

RICHARD L. DE LA CRUZ P.E. 6-3-10 DATE

FED.RD. DIV.NO.	PROJECT NO.		SHEET NO.
	C 857-1-27		134A
STATE	DIST.	COUNTY	
TEXAS	SAT	COMAL	
CONT.	SECT.	JOB	HIGHWAY NO.
0857	01	027	FM 306

d:\pwwork\rgv\txdot\pwsouth\jmenele\dwg06933\CZP General Construction Notes.dgn

DESCRIPTION	QUAN	UNIT
ROCK FILTER DAMS (REMOVE)	45	LF
TEMPORARY SEDIMENT CONTROL FENCE	1239	LF
ROCK FILTER DAMS (INSTALL)(TY 5)	45	LF



NOTES:
1. ALL SW3P CONTROL MEASURES SHALL BE PLACED WITHIN TXDOT RIGHT-OF-WAY DURING CONSTRUCTION.
2. CONTRACTOR SHALL MAINTAIN SW3P CONTROL MEASURES THROUGHOUT CONSTRUCTION.
3. CONSTRUCTION ENTRANCE/EXIT TO BE DETERMINED BY ENGINEER OUT IN THE FIELD.
4. ALL SW3P CONTROL MEASURES INSTALLED DURING CONSTRUCTION ARE TO REMAIN IN PLACE UNTILL 70% VEGETATIVE COVER IS ACHIEVED OR AS APPROVED BY THE ENGINEER.
5. LOCATION OF SW3P CONTROL MEASURES TO BE DETERMINED BY ENGINEER IN THE FIELD.
6. ANTICIPATE ONE REPLACEMENT CYCLE FOR SW3P CONTROL MEASURES.
7. APPLY VEGETATIVE WATERING AS NEEDED TO SUPPLEMENT NATURAL RAINFALL DURING THE VEGETATION ESTABLISHMENT PERIOD. DROUGHT OR OTHER ENVIRONMENTAL CONDITIONS, AS DETERMINED BY THE ENGINEER, MAY REQUIRE THE APPLICATION OF SUPPLEMENTAL IRRIGATION TO BE BETWEEN THE HOURS OF 6PM AND 8AM.
8. SW3P CONTROL MEASURE SYMBOLS ARE NOT TO SCALE.
9. CONCRETE TRUCK CLEAN OUT LOCATIONS TO BE DETERMINED BY ENGINEER OUT IN THE FIELD.

LEGEND

- TEMP SEDMT CONT FEN
- ROCK FILTER DAMS
- FLOW ARROWS
- AVOID AREA, POTENTIAL WETLANDS AND WATERS OF THE U.S.
- DO NOT DISTURB EXISTING SURFACE
- VEGETATIVE FILTER STRIP

FM 306
SW3P LAYOUT

SHEET 2 OF 9

STATE OF TEXAS
RICHARD DE LA CRUZ
88124
LICENSED
PROFESSIONAL ENGINEER

RICHARD L. DE LA CRUZ P.E. 6-3-10 DATE

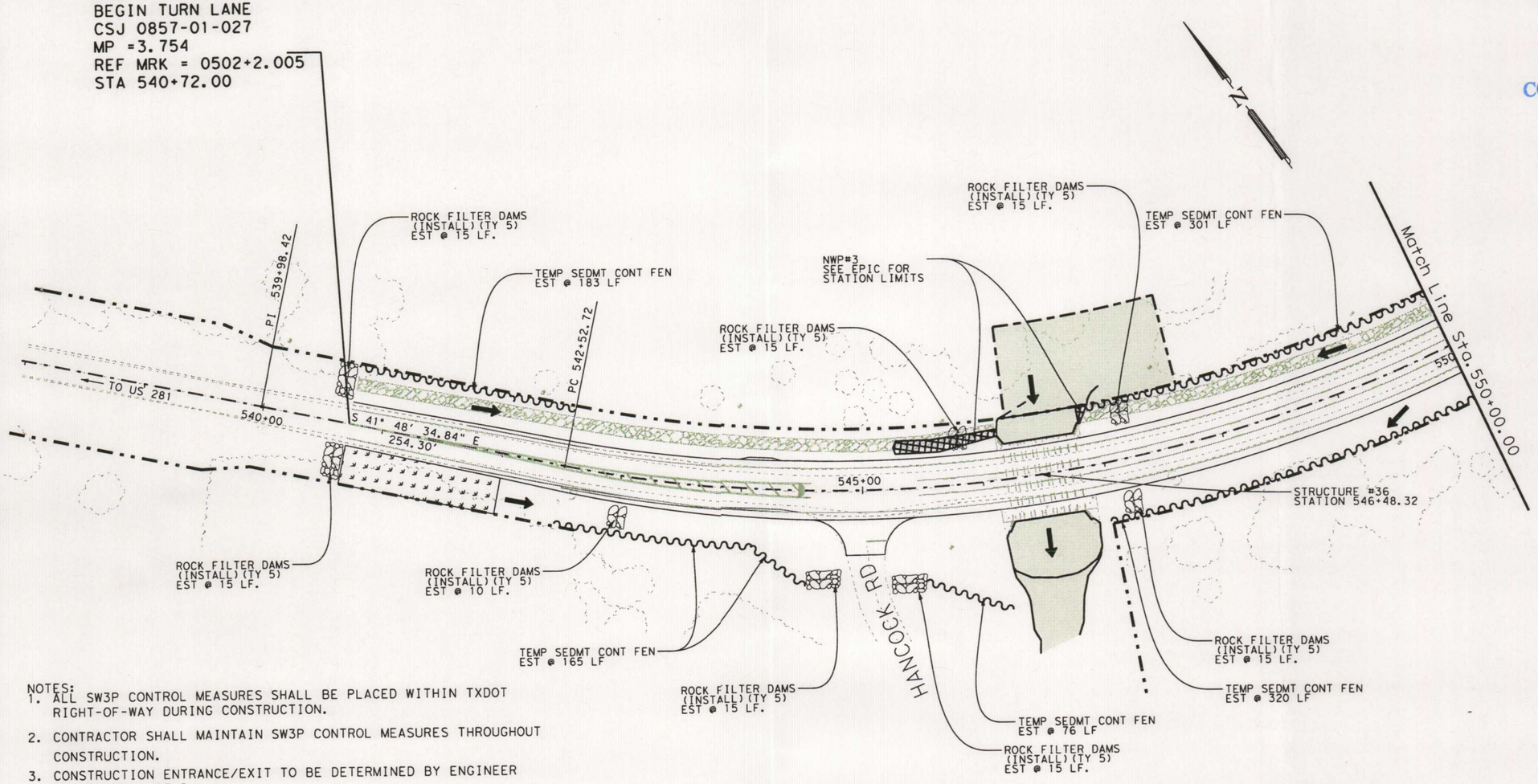
SCALE 1" EQUALS 100'

Texas Department of Transportation

CONT	SECT	JOB	HIGHWAY
0857	01	027	FM 306
DIST	COUNTY		SHEET NO.
SAT	COMAL		136

DATE: 6/4/2010 10:27:23 AM
FILE: d:\pwworking\txdot\pwsouth\jmenele\dms09299\sw3p2.dgn

DESCRIPTION	QUAN	UNIT
ROCK FILTER DAMS (REMOVE)	115	LF
CONSTRUCTION EXITS (INSTALL) (TY 1)	160	SY
CONSTRUCTION EXITS (REMOVE)	160	SY
TEMPORARY SEDIMENT CONTROL FENCE	1045	LF
ROCK FILTER DAMS (INSTALL) (TY 5)	115	LF



NOTES:
1. ALL SW3P CONTROL MEASURES SHALL BE PLACED WITHIN TXDOT RIGHT-OF-WAY DURING CONSTRUCTION.
2. CONTRACTOR SHALL MAINTAIN SW3P CONTROL MEASURES THROUGHOUT CONSTRUCTION.
3. CONSTRUCTION ENTRANCE/EXIT TO BE DETERMINED BY ENGINEER OUT IN THE FIELD.
4. ALL SW3P CONTROL MEASURES INSTALLED DURING CONSTRUCTION ARE TO REMAIN IN PLACE UNTILL 70% VEGETATIVE COVER IS ACHIEVED OR AS APPROVED BY THE ENGINEER.
5. LOCATION OF SW3P CONTROL MEASURES TO BE DETERMINED BY ENGINEER IN THE FIELD.
6. ANTICIPATE ONE REPLACEMENT CYCLE FOR SW3P CONTROL MEASURES.
7. APPLY VEGETATIVE WATERING AS NEEDED TO SUPPLEMENT NATURAL RAINFALL DURING THE VEGETATION ESTABLISHMENT PERIOD. DROUGHT OR OTHER ENVIRONMENTAL CONDITIONS, AS DETERMINED BY THE ENGINEER, MAY REQUIRE THE APPLICATION OF SUPPLEMENTAL IRRIGATION TO BE BETWEEN THE HOURS OF 6PM AND 8AM.
8. SW3P CONTROL MEASURE SYMBOLS ARE NOT TO SCALE.
9. CONCRETE TRUCK CLEAN OUT LOCATIONS TO BE DETERMINED BY ENGINEER OUT IN THE FIELD.

LEGEND

- TEMP SEDMT CONT FEN
- ROCK FILTER DAMS
- FLOW ARROWS
- AVOID AREA, POTENTIAL WETLANDS AND WATERS OF THE U.S.
- DO NOT DISTURB EXISTING SURFACE
- VEGETATIVE FILTER STRIP

FM 306
SW3P LAYOUT

SHEET 1 OF 9

STATE OF TEXAS
RICHARD DE LA CRUZ
88124
LICENSED PROFESSIONAL ENGINEER

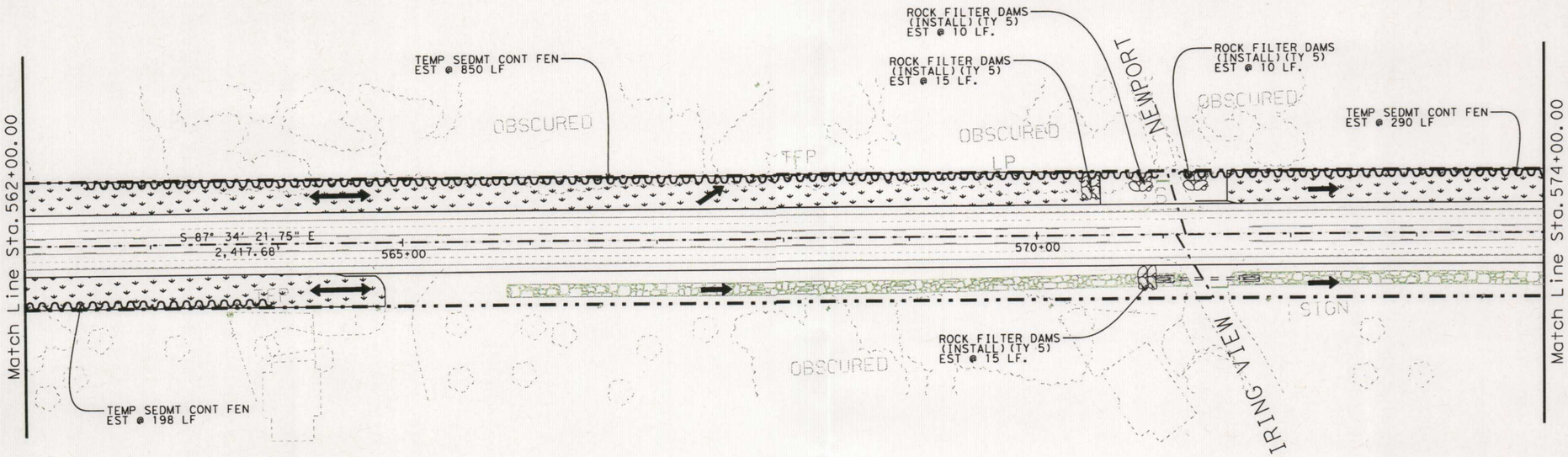
RICHARD L. DE LA CRUZ P.E. 6-3-10
DATE

SCALE 1" EQUALS 100'

CONT	SECT	JOB	HIGHWAY
0857	01	027	FM 306
DIST	COUNTY		SHEET NO.
SAT	COMAL		135

DATE: 6/4/2010 10:27:11 AM
FILE: d:\pwworking\txdot\pwsouth\jmenele\dms09299\sw3p1.dgn

DESCRIPTION	QUAN	UNIT
ROCK FILTER DAMS (REMOVE)	50	LF
TEMPORARY SEDIMENT CONTROL FENCE	1338	LF
ROCK FILTER DAMS (INSTALL) (TY 5)	50	LF



NOTES:
1. ALL SW3P CONTROL MEASURES SHALL BE PLACED WITHIN TXDOT RIGHT-OF-WAY DURING CONSTRUCTION.
2. CONTRACTOR SHALL MAINTAIN SW3P CONTROL MEASURES THROUGHOUT CONSTRUCTION.
3. CONSTRUCTION ENTRANCE/EXIT TO BE DETERMINED BY ENGINEER OUT IN THE FIELD.
4. ALL SW3P CONTROL MEASURES INSTALLED DURING CONSTRUCTION ARE TO REMAIN IN PLACE UNTILL 70% VEGETATIVE COVER IS ACHIEVED OR AS APPROVED BY THE ENGINEER.
5. LOCATION OF SW3P CONTROL MEASURES TO BE DETERMINED BY ENGINEER IN THE FIELD.
6. ANTICIPATE ONE REPLACEMENT CYCLE FOR SW3P CONTROL MEASURES.
7. APPLY VEGETATIVE WATERING AS NEEDED TO SUPPLEMENT NATURAL RAINFALL DURING THE VEGETATION ESTABLISHMENT PERIOD. DROUGHT OR OTHER ENVIRONMENTAL CONDITIONS, AS DETERMINED BY THE ENGINEER, MAY REQUIRE THE APPLICATION OF SUPPLEMENTAL IRRIGATION TO BE BETWEEN THE HOURS OF 6PM AND 8AM.
8. SW3P CONTROL MEASURE SYMBOLS ARE NOT TO SCALE.
9. CONCRETE TRUCK CLEAN OUT LOCATIONS TO BE DETERMINED BY ENGINEER OUT IN THE FIELD.

LEGEND

- TEMP SEDMT CONT FEN
- ROCK FILTER DAMS
- FLOW ARROWS
- AVOID AREA, POTENTIAL WETLANDS AND WATERS OF THE U.S.
- DO NOT DISTURB EXISTING SURFACE
- VEGETATIVE FILTER STRIP

FM 306
SW3P LAYOUT

SHEET 3 OF 9

STATE OF TEXAS
RICHARD DE LA CRUZ
88124
LICENSED
PROFESSIONAL ENGINEER

RICHARD L. DE LA CRUZ P.E. 6-3-10 DATE

SCALE 1" EQUALS 100'

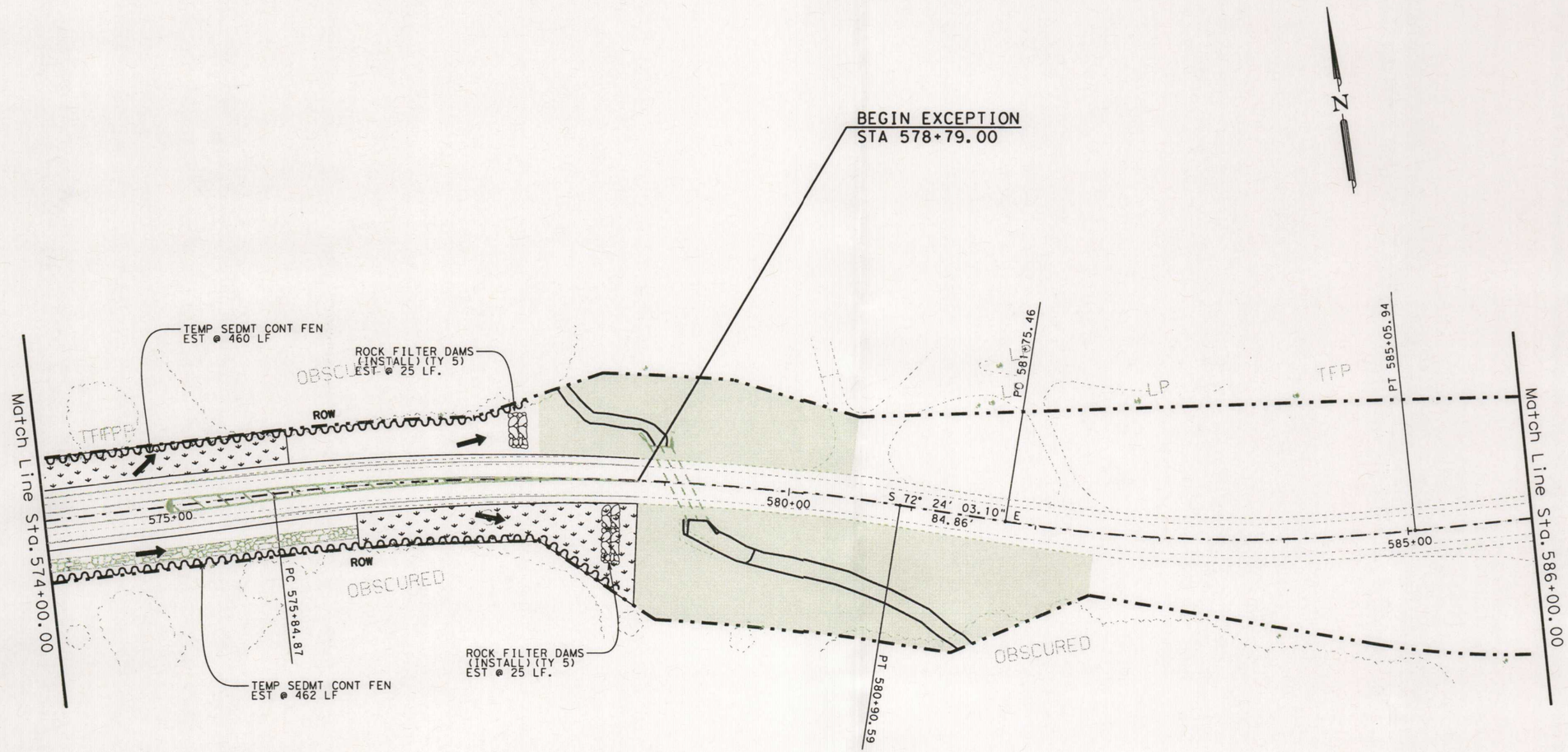
Texas Department of Transportation

CONT	SECT	JOB	HIGHWAY
0857	01	027	FM 306
DIST	COUNTY		SHEET NO.
SAT	COMAL		137

DATE: 6/4/2010 10:27:34 AM
FILE: d:\pwworking\txdot\pwsouth\jmenele\dms09299\sw3p3.dgn

DN: | CK: | DW: | CK:

DESCRIPTION	QUAN	UNIT
ROCK FILTER DAMS (REMOVE)	50	LF
TEMPORARY SEDIMENT CONTROL FENCE	922	LF
ROCK FILTER DAMS (INSTALL)(TY 5)	50	LF



NOTES:
1. ALL SW3P CONTROL MEASURES SHALL BE PLACED WITHIN TXDOT RIGHT-OF-WAY DURING CONSTRUCTION.
2. CONTRACTOR SHALL MAINTAIN SW3P CONTROL MEASURES THROUGHOUT CONSTRUCTION.
3. CONSTRUCTION ENTRANCE/EXIT TO BE DETERMINED BY ENGINEER OUT IN THE FIELD.
4. ALL SW3P CONTROL MEASURES INSTALLED DURING CONSTRUCTION ARE TO REMAIN IN PLACE UNTILL 70% VEGETATIVE COVER IS ACHIEVED OR AS APPROVED BY THE ENGINEER.
5. LOCATION OF SW3P CONTROL MEASURES TO BE DETERMINED BY ENGINEER IN THE FIELD.
6. ANTICIPATE ONE REPLACEMENT CYCLE FOR SW3P CONTROL MEASURES.
7. APPLY VEGETATIVE WATERING AS NEEDED TO SUPPLEMENT NATURAL RAINFALL DURING THE VEGETATION ESTABLISHMENT PERIOD. DROUGHT OR OTHER ENVIRONMENTAL CONDITIONS, AS DETERMINED BY THE ENGINEER, MAY REQUIRE THE APPLICATION OF SUPPLEMENTAL IRRIGATION TO BE BETWEEN THE HOURS OF 6PM AND 8AM.
8. SW3P CONTROL MEASURE SYMBOLS ARE NOT TO SCALE.
9. CONCRETE TRUCK CLEAN OUT LOCATIONS TO BE DETERMINED BY ENGINEER OUT IN THE FIELD.

LEGEND

- TEMP SEDMT CONT FEN
- ROCK FILTER DAMS
- FLOW ARROWS
- AVOID AREA, POTENTIAL WETLANDS AND WATERS OF THE U.S.
- DO NOT DISTURB EXISTING SURFACE
- VEGETATIVE FILTER STRIP

FM 306
SW3P LAYOUT

SHEET 4 OF 9

STATE OF TEXAS
RICHARD DE LA CRUZ
88124
LICENSED PROFESSIONAL ENGINEER

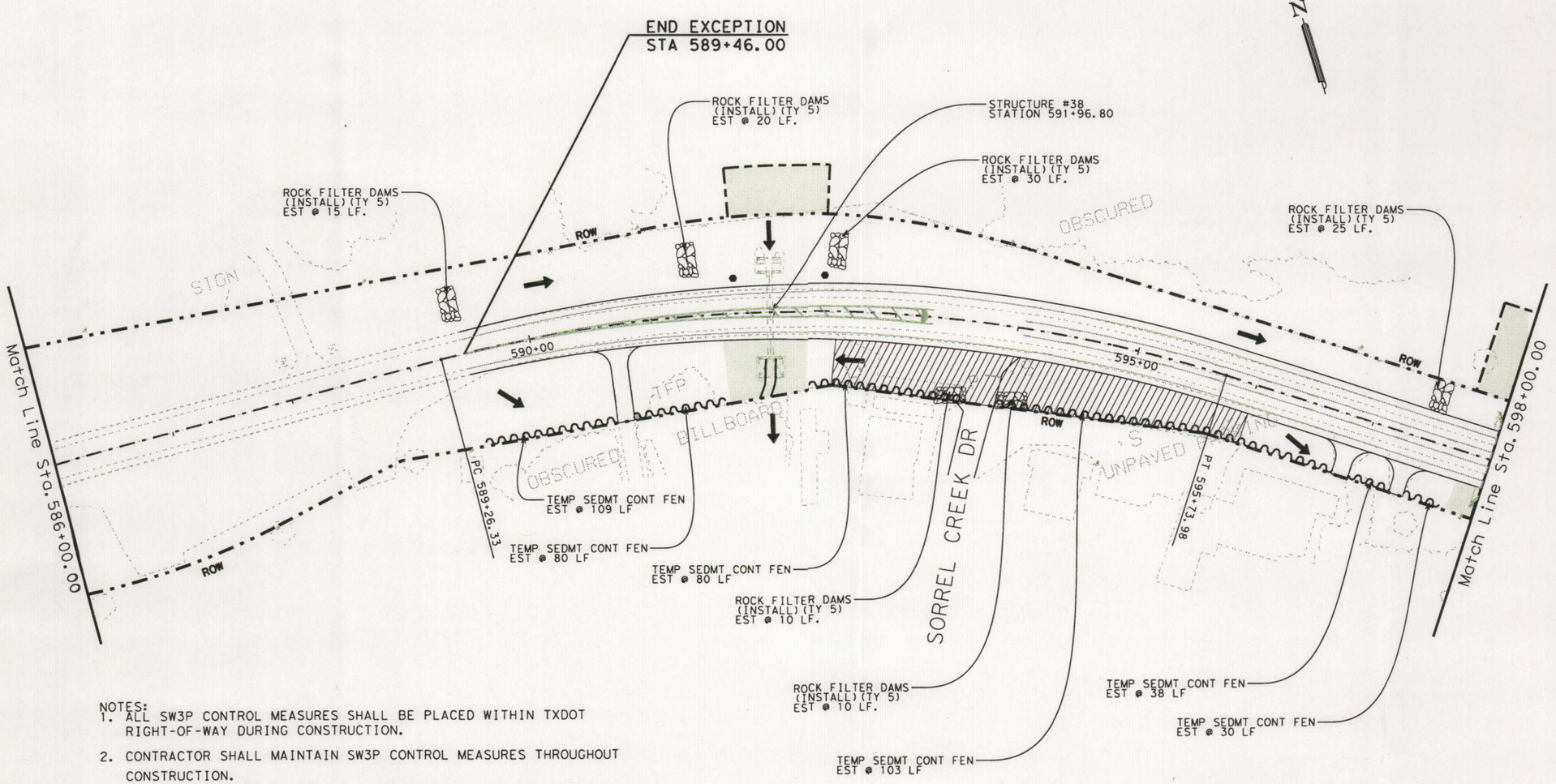
RICHARD L. DE LA CRUZ P.E. 6-3-10
DATE

SCALE 1" EQUALS 100'

CONT	SECT	JOB	HIGHWAY
0857	01	027	FM 306
DIST	COUNTY		SHEET NO.
SAT	COMAL		138

DATE: 6/4/2010 10:27:45 AM
FILE: d:\pwworking\txdot\pwsouth\jmenele\dms09299\sw3p4.dgn

DESCRIPTION	QUAN	UNIT
ROCK FILTER DAMS (REMOVE)	110	LF
CONSTRUCTION EXITS (INSTALL)(TY 1)	160	SY
CONSTRUCTION EXITS (REMOVE)	160	SY
TEMPORARY SEDIMENT CONTROL FENCE	440	LF
ROCK FILTER DAMS (INSTALL)(TY 5)	110	LF



NOTES:
1. ALL SW3P CONTROL MEASURES SHALL BE PLACED WITHIN TXDOT RIGHT-OF-WAY DURING CONSTRUCTION.
2. CONTRACTOR SHALL MAINTAIN SW3P CONTROL MEASURES THROUGHOUT CONSTRUCTION.
3. CONSTRUCTION ENTRANCE/EXIT TO BE DETERMINED BY ENGINEER OUT IN THE FIELD.
4. ALL SW3P CONTROL MEASURES INSTALLED DURING CONSTRUCTION ARE TO REMAIN IN PLACE UNTILL 70% VEGETATIVE COVER IS ACHIEVED OR AS APPROVED BY THE ENGINEER.
5. LOCATION OF SW3P CONTROL MEASURES TO BE DETERMINED BY ENGINEER IN THE FIELD.
6. ANTICIPATE ONE REPLACEMENT CYCLE FOR SW3P CONTROL MEASURES.
7. APPLY VEGETATIVE WATERING AS NEEDED TO SUPPLEMENT NATURAL RAINFALL DURING THE VEGETATION ESTABLISHMENT PERIOD. DROUGHT OR OTHER ENVIRONMENTAL CONDITIONS, AS DETERMINED BY THE ENGINEER, MAY REQUIRE THE APPLICATION OF SUPPLEMENTAL IRRIGATION TO BE BETWEEN THE HOURS OF 6PM AND 8AM.
8. SW3P CONTROL MEASURE SYMBOLS ARE NOT TO SCALE.
9. CONCRETE TRUCK CLEAN OUT LOCATIONS TO BE DETERMINED BY ENGINEER OUT IN THE FIELD.

LEGEND

- TEMP SEDMT CONT FEN
- ROCK FILTER DAMS
- FLOW ARROWS
- AVOID AREA, POTENTIAL WETLANDS AND WATERS OF THE U.S.
- DO NOT DISTURB EXISTING SURFACE
- VEGETATIVE FILTER STRIP

FM 306
SW3P LAYOUT

SHEET 5 OF 9

STATE OF TEXAS
RICHARD DE LA CRUZ
88124
LICENSED PROFESSIONAL ENGINEER

RICHARD L. DE LA CRUZ P.E. 6-3-10 DATE

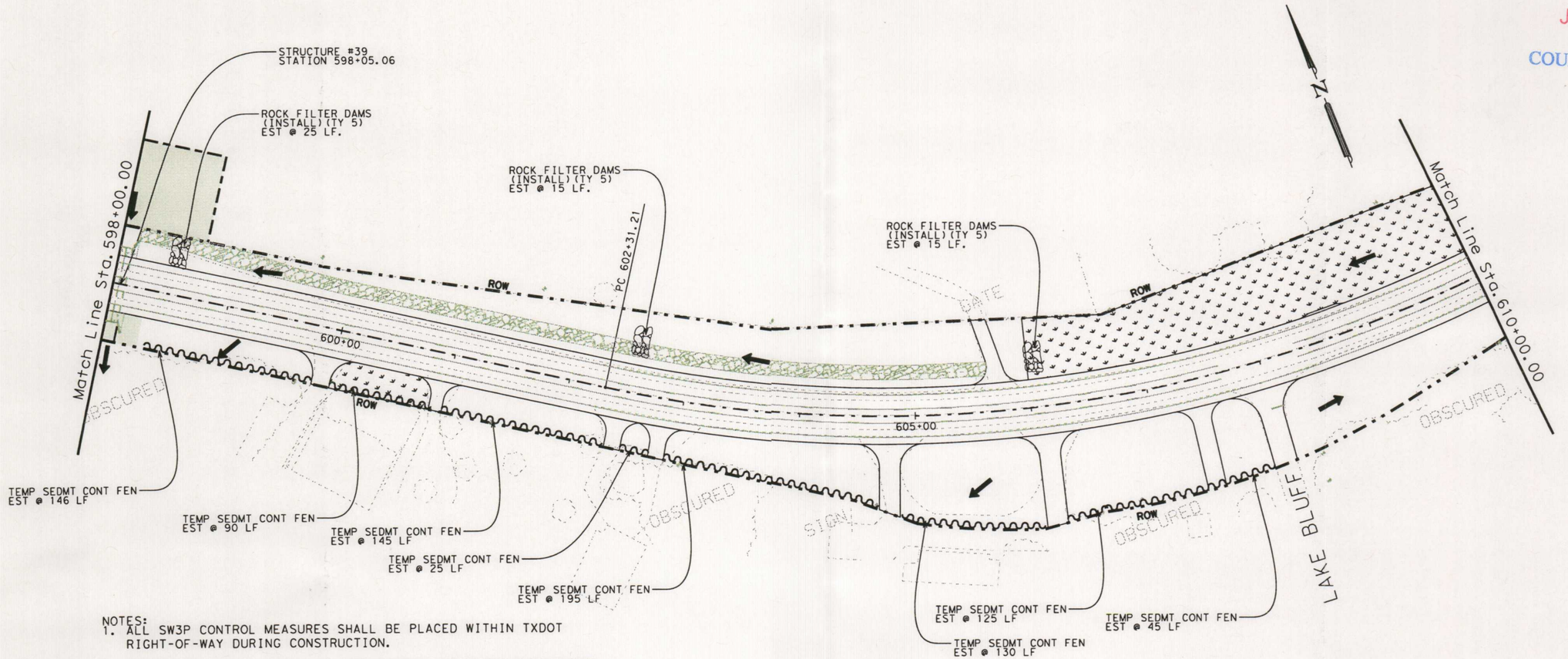
SCALE 1" EQUALS 100'

CONT	SECT	JOB	HIGHWAY
0857	01	027	FM 306
DIST	COUNTY		SHEET NO.
SAT	COMAL		139

DATE: 6/4/2010 10:27:57 AM
FILE: d:\pwworking\txdot\pwsouth\jmenele\dms09299\sw3p5.dgn

DESCRIPTION	QUAN	UNIT
ROCK FILTER DAMS (REMOVE)	55	LF
TEMPORARY SEDIMENT CONTROL FENCE	901	LF
ROCK FILTER DAMS (INSTALL) (TY 5)	55	LF

RECEIVED
JUN 1 1 2010
COUNTY ENGINEER



NOTES:
1. ALL SW3P CONTROL MEASURES SHALL BE PLACED WITHIN TXDOT RIGHT-OF-WAY DURING CONSTRUCTION.
2. CONTRACTOR SHALL MAINTAIN SW3P CONTROL MEASURES THROUGHOUT CONSTRUCTION.
3. CONSTRUCTION ENTRANCE/EXIT TO BE DETERMINED BY ENGINEER OUT IN THE FIELD.
4. ALL SW3P CONTROL MEASURES INSTALLED DURING CONSTRUCTION ARE TO REMAIN IN PLACE UNTILL 70% VEGETATIVE COVER IS ACHIEVED OR AS APPROVED BY THE ENGINEER.
5. LOCATION OF SW3P CONTROL MEASURES TO BE DETERMINED BY ENGINEER IN THE FIELD.
6. ANTICIPATE ONE REPLACEMENT CYCLE FOR SW3P CONTROL MEASURES.
7. APPLY VEGETATIVE WATERING AS NEEDED TO SUPPLEMENT NATURAL RAINFALL DURING THE VEGETATION ESTABLISHMENT PERIOD. DROUGHT OR OTHER ENVIRONMENTAL CONDITIONS, AS DETERMINED BY THE ENGINEER, MAY REQUIRE THE APPLICATION OF SUPPLEMENTAL IRRIGATION TO BE BETWEEN THE HOURS OF 6PM AND 8AM.
8. SW3P CONTROL MEASURE SYMBOLS ARE NOT TO SCALE.
9. CONCRETE TRUCK CLEAN OUT LOCATIONS TO BE DETERMINED BY ENGINEER OUT IN THE FIELD.

LEGEND

- TEMP SEDMT CONT FEN
- ROCK FILTER DAMS
- FLOW ARROWS
- AVOID AREA, POTENTIAL WETLANDS AND WATERS OF THE U.S.
- DO NOT DISTURB EXISTING SURFACE
- VEGETATIVE FILTER STRIP

FM 306
SW3P LAYOUT

SHEET 6 OF 9

STATE OF TEXAS
RICHARD DE LA CRUZ
88124
LICENSED PROFESSIONAL ENGINEER

RICHARD L. DE LA CRUZ P.E. 6-3-10 DATE

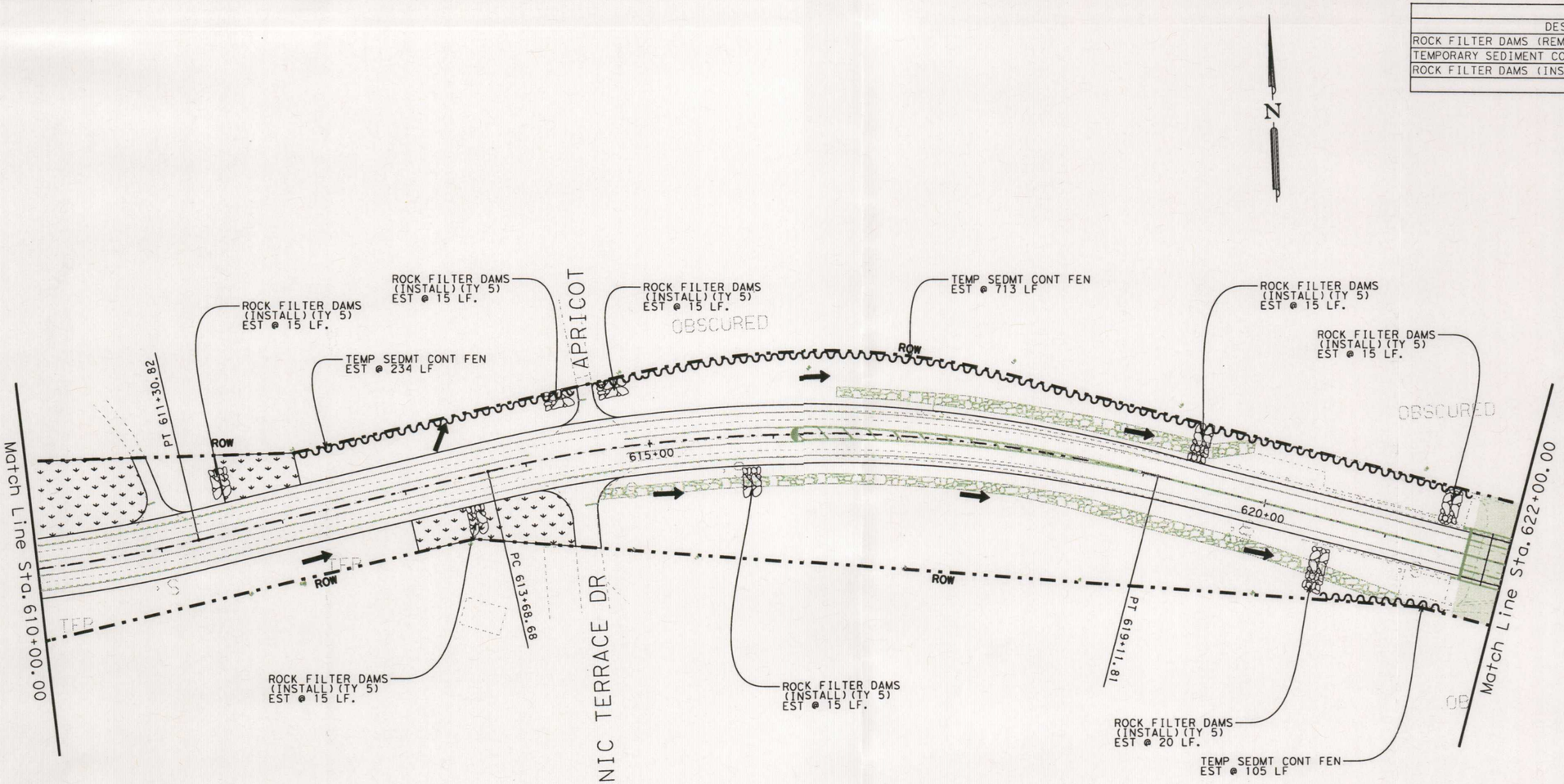
SCALE 1" EQUALS 100'

Texas Department of Transportation

CONT	SECT	JOB	HIGHWAY
0857	01	027	FM 306
DIST	COUNTY		SHEET NO.
SAT	COMAL		140

DATE: 6/4/2010 10:28:08 AM
FILE: d:\pwworking\txdot\pwsouth\jmenele\dms09299\sw3p6.dgn

DESCRIPTION	QUAN	UNIT
ROCK FILTER DAMS (REMOVE)	125	LF
TEMPORARY SEDIMENT CONTROL FENCE	1052	LF
ROCK FILTER DAMS (INSTALL) (TY 5)	125	LF



NOTES:
1. ALL SW3P CONTROL MEASURES SHALL BE PLACED WITHIN TXDOT RIGHT-OF-WAY DURING CONSTRUCTION.
2. CONTRACTOR SHALL MAINTAIN SW3P CONTROL MEASURES THROUGHOUT CONSTRUCTION.
3. CONSTRUCTION ENTRANCE/EXIT TO BE DETERMINED BY ENGINEER OUT IN THE FIELD.
4. ALL SW3P CONTROL MEASURES INSTALLED DURING CONSTRUCTION ARE TO REMAIN IN PLACE UNTILL 70% VEGETATIVE COVER IS ACHIEVED OR AS APPROVED BY THE ENGINEER.
5. LOCATION OF SW3P CONTROL MEASURES TO BE DETERMINED BY ENGINEER IN THE FIELD.
6. ANTICIPATE ONE REPLACEMENT CYCLE FOR SW3P CONTROL MEASURES.
7. APPLY VEGETATIVE WATERING AS NEEDED TO SUPPLEMENT NATURAL RAINFALL DURING THE VEGETATION ESTABLISHMENT PERIOD. DROUGHT OR OTHER ENVIRONMENTAL CONDITIONS, AS DETERMINED BY THE ENGINEER, MAY REQUIRE THE APPLICATION OF SUPPLEMENTAL IRRIGATION TO BE BETWEEN THE HOURS OF 6PM AND 8AM.
8. SW3P CONTROL MEASURE SYMBOLS ARE NOT TO SCALE.
9. CONCRETE TRUCK CLEAN OUT LOCATIONS TO BE DETERMINED BY ENGINEER OUT IN THE FIELD.

LEGEND

- TEMP SEDMT CONT FEN
- ROCK FILTER DAMS
- FLOW ARROWS
- AVOID AREA, POTENTIAL WETLANDS AND WATERS OF THE U.S.
- DO NOT DISTURB EXISTING SURFACE
- VEGETATIVE FILTER STRIP

RECEIVED
JUN 11 2010
COUNTY ENGINEER

STATE OF TEXAS
RICHARD DE LA CRUZ
88124
LICENSED PROFESSIONAL ENGINEER

RICHARD L. DE LA CRUZ P.E. 6-3-10 DATE

SCALE 1" EQUALS 100'

Texas Department of Transportation

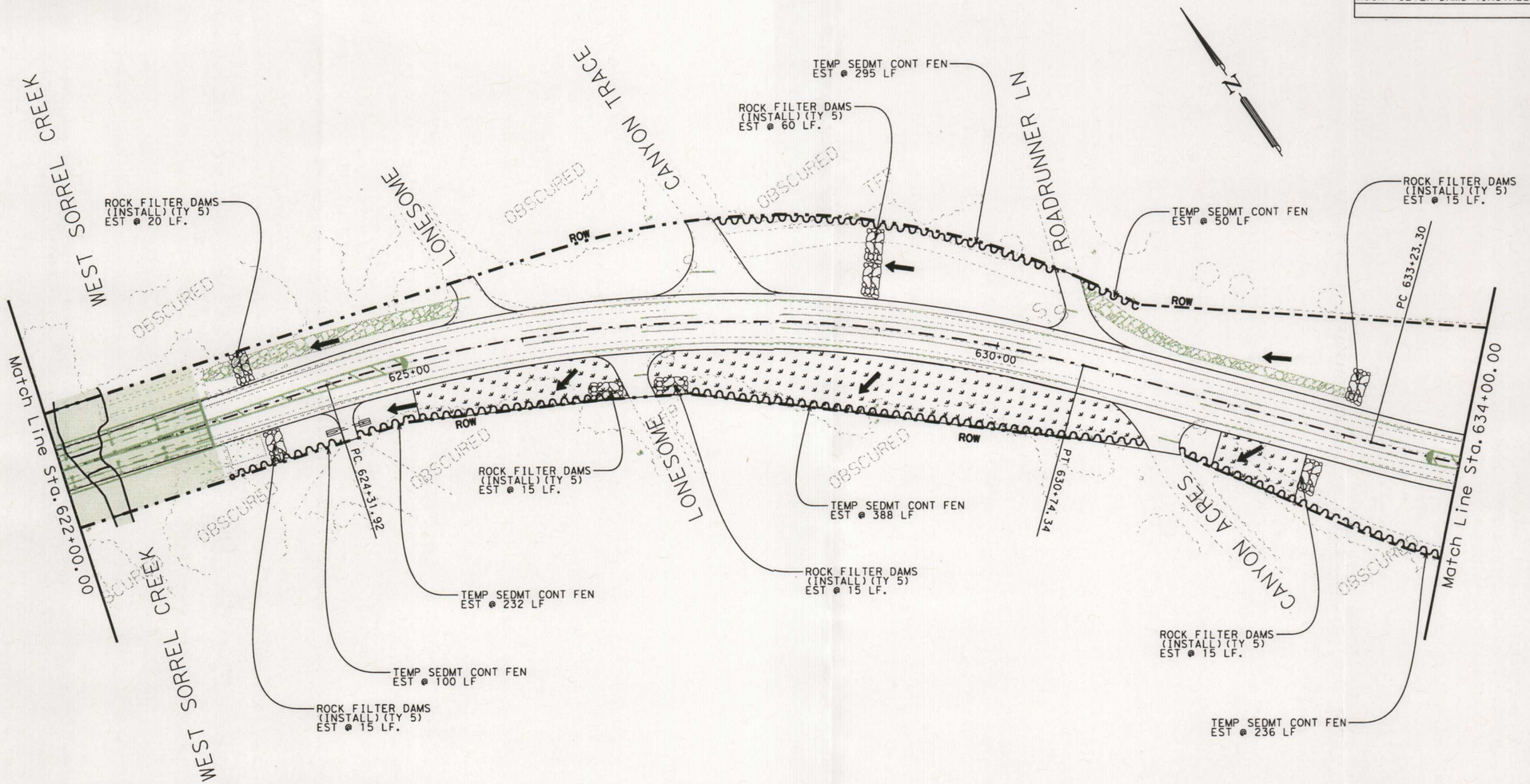
FM 306
SW3P LAYOUT

SHEET 7 OF 9

CONT	SECT	JOB	HIGHWAY
0857	01	027	FM 306
DIST	COUNTY		SHEET NO.
SAT	COMAL		141

DATE: 6/4/2010 10:28:20 AM
FILE: d:\pwworking\txdot\pwsouth\jmenele\dms09299\sw3p7.dgn

DESCRIPTION	QUAN	UNIT
ROCK FILTER DAMS (REMOVE)	155	LF
TEMPORARY SEDIMENT CONTROL FENCE	1301	LF
ROCK FILTER DAMS (INSTALL)(TY 5)	155	LF



NOTES:
1. ALL SW3P CONTROL MEASURES SHALL BE PLACED WITHIN TXDOT RIGHT-OF-WAY DURING CONSTRUCTION.
2. CONTRACTOR SHALL MAINTAIN SW3P CONTROL MEASURES THROUGHOUT CONSTRUCTION.
3. CONSTRUCTION ENTRANCE/EXIT TO BE DETERMINED BY ENGINEER OUT IN THE FIELD.
4. ALL SW3P CONTROL MEASURES INSTALLED DURING CONSTRUCTION ARE TO REMAIN IN PLACE UNTILL 70% VEGETATIVE COVER IS ACHIEVED OR AS APPROVED BY THE ENGINEER.
5. LOCATION OF SW3P CONTROL MEASURES TO BE DETERMINED BY ENGINEER IN THE FIELD.
6. ANTICIPATE ONE REPLACEMENT CYCLE FOR SW3P CONTROL MEASURES.
7. APPLY VEGETATIVE WATERING AS NEEDED TO SUPPLEMENT NATURAL RAINFALL DURING THE VEGETATION ESTABLISHMENT PERIOD. DROUGHT OR OTHER ENVIRONMENTAL CONDITIONS, AS DETERMINED BY THE ENGINEER, MAY REQUIRE THE APPLICATION OF SUPPLEMENTAL IRRIGATION TO BE BETWEEN THE HOURS OF 6PM AND 8AM.
8. SW3P CONTROL MEASURE SYMBOLS ARE NOT TO SCALE.
9. CONCRETE TRUCK CLEAN OUT LOCATIONS TO BE DETERMINED BY ENGINEER OUT IN THE FIELD.

LEGEND

- TEMP SEDMT CONT FEN
- ROCK FILTER DAMS
- FLOW ARROWS
- AVOID AREA, POTENTIAL WETLANDS AND WATERS OF THE U.S.
- DO NOT DISTURB EXISTING SURFACE
- VEGETATIVE FILTER STRIP

FM 306
SW3P LAYOUT

SHEET 8 OF 9

RECEIVED
JUN 11 2010
COUNTY ENGINEER

STATE OF TEXAS
RICHARD DE LA CRUZ
88124
LICENSED PROFESSIONAL ENGINEER

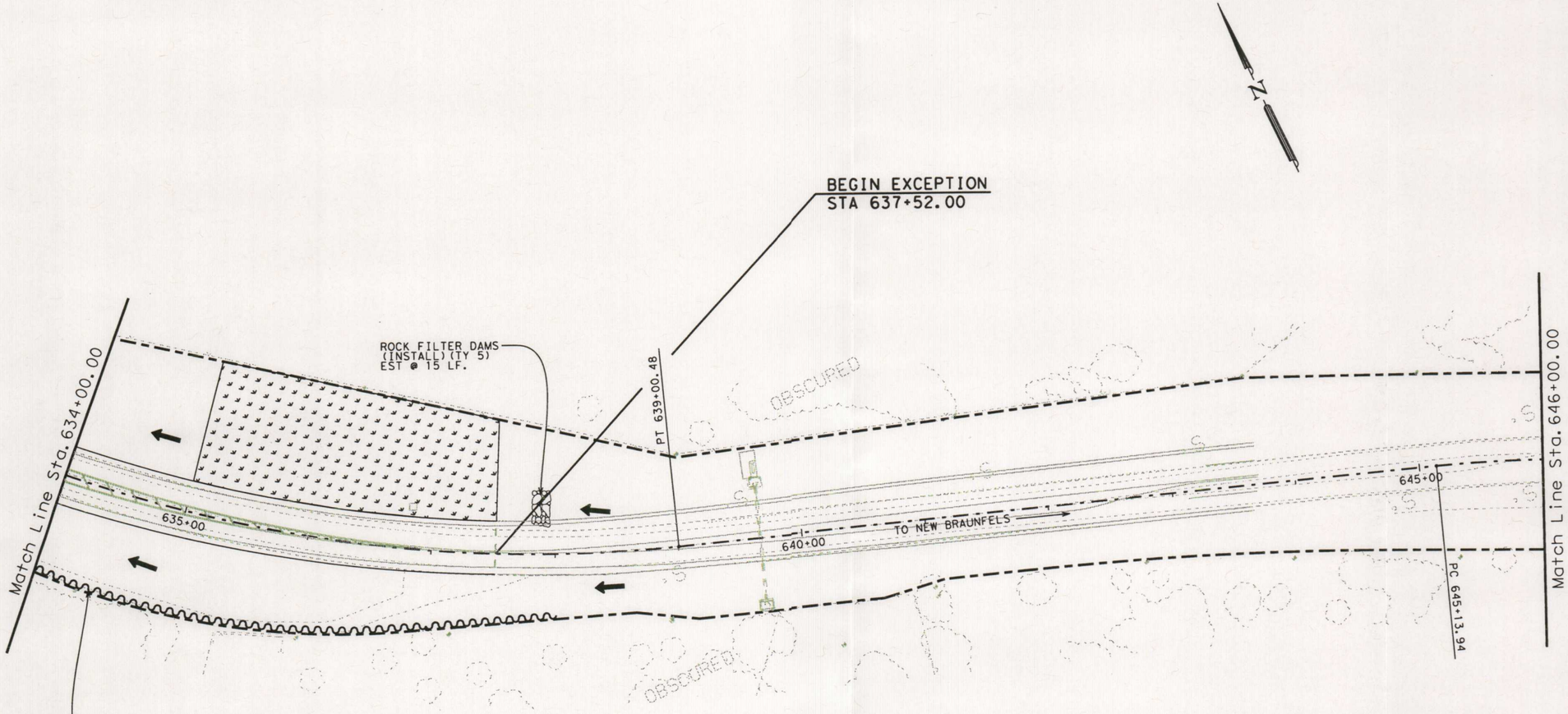
RICHARD L. DE LA CRUZ P.E. 6-3-10 DATE

SCALE 1" EQUALS 100'

CONT	SECT	JOB	HIGHWAY
0857	01	027	FM 306
DIST	COUNTY		SHEET NO.
SAT	COMAL		142

DATE: 6/4/2010 10:28:32 AM
FILE: d:\pwworking\txdot\pwsouth\jmenele\dms09299\sw3p8.dgn

DESCRIPTION	QUAN	UNIT
ROCK FILTER DAMS (REMOVE)	15	LF
TEMPORARY SEDIMENT CONTROL FENCE	430	LF
ROCK FILTER DAMS (INSTALL)(TY 5)	15	LF



NOTES:
1. ALL SW3P CONTROL MEASURES SHALL BE PLACED WITHIN TXDOT RIGHT-OF-WAY DURING CONSTRUCTION.
2. CONTRACTOR SHALL MAINTAIN SW3P CONTROL MEASURES THROUGHOUT CONSTRUCTION.
3. CONSTRUCTION ENTRANCE/EXIT TO BE DETERMINED BY ENGINEER OUT IN THE FIELD.
4. ALL SW3P CONTROL MEASURES INSTALLED DURING CONSTRUCTION ARE TO REMAIN IN PLACE UNTILL 70% VEGETATIVE COVER IS ACHIEVED OR AS APPROVED BY THE ENGINEER.
5. LOCATION OF SW3P CONTROL MEASURES TO BE DETERMINED BY ENGINEER IN THE FIELD.
6. ANTICIPATE ONE REPLACEMENT CYCLE FOR SW3P CONTROL MEASURES.
7. APPLY VEGETATIVE WATERING AS NEEDED TO SUPPLEMENT NATURAL RAINFALL DURING THE VEGETATION ESTABLISHMENT PERIOD. DROUGHT OR OTHER ENVIRONMENTAL CONDITIONS, AS DETERMINED BY THE ENGINEER, MAY REQUIRE THE APPLICATION OF SUPPLEMENTAL IRRIGATION TO BE BETWEEN THE HOURS OF 6PM AND 8AM.
8. SW3P CONTROL MEASURE SYMBOLS ARE NOT TO SCALE.
9. CONCRETE TRUCK CLEAN OUT LOCATIONS TO BE DETERMINED BY ENGINEER OUT IN THE FIELD.

LEGEND

- TEMP SEDMT CONT FEN
- ROCK FILTER DAMS
- FLOW ARROWS
- AVOID AREA, POTENTIAL WETLANDS AND WATERS OF THE U.S.
- DO NOT DISTURB EXISTING SURFACE
- VEGETATIVE FILTER STRIP

FM 306
SW3P LAYOUT

SHEET 9 OF 9

STATE OF TEXAS
RICHARD DE LA CRUZ
88124
LICENSED PROFESSIONAL ENGINEER

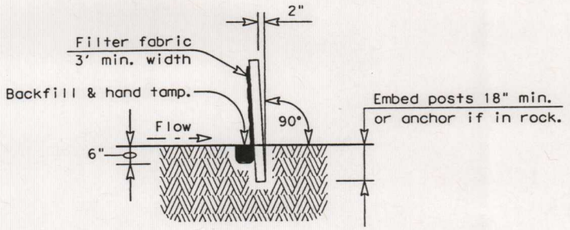
RICHARD L. DE LA CRUZ P.E. 6-3-10 DATE

SCALE 1" EQUALS 100'

Texas Department of Transportation

CONT	SECT	JOB	HIGHWAY
0857	01	027	FM 306
DIST	COUNTY		SHEET NO.
SAT	COMAL		143

DATE: 6/4/2010 10:28:44 AM
FILE: d:\pwworking\txdot\pwsouth\jmenele\dms09299\sw3p9.dgn



SECTION A-A

GENERAL NOTES

1. The guidelines shown hereon are suggestions only and may be modified by the Engineer.

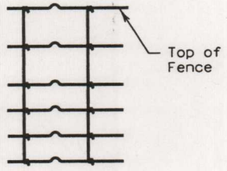
PLAN SHEET LEGEND

Sediment Control Fence —— SCF ——

SEDIMENT CONTROL FENCE USAGE GUIDELINES

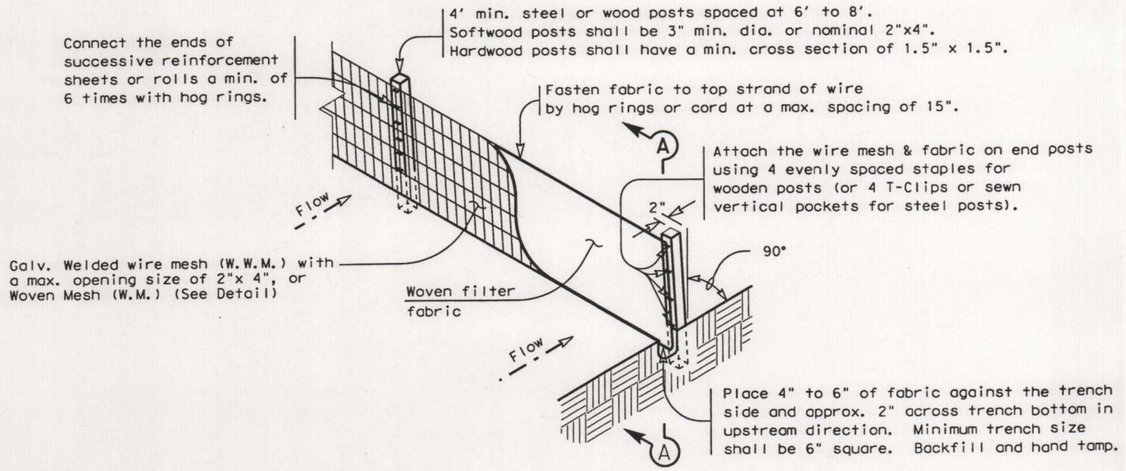
A sediment control fence may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A 2 year storm frequency may be used to calculate the flow rate to be filtered.

Sediment control fence should be sized to filter a max. flow through rate of 100 GPM/FT^2. Sediment control fence is not recommended to control erosion from a drainage area larger than 2 acres.



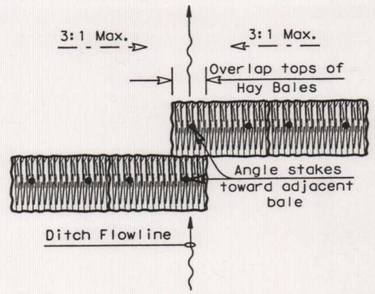
Galv. Hinge joint knot woven mesh (12.5 Ga. Min.) requires a minimum of five horizontal wires spaced at a max.12 inches apart and all vertical wires spaced at a max. 12 inches apart.

Hinge Joint Knot Woven Mesh (Option)

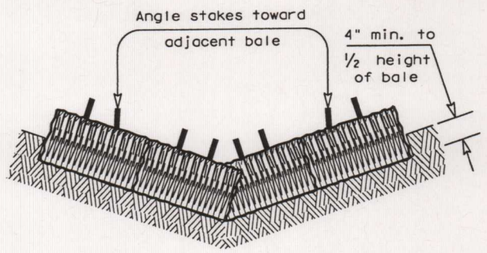


TEMPORARY SEDIMENT CONTROL FENCE

SCF



PLAN VIEW



PROFILE VIEW

PLANS SHEET LEGEND

Baled Hay —— BH ——

BALED HAY USAGE GUIDELINES

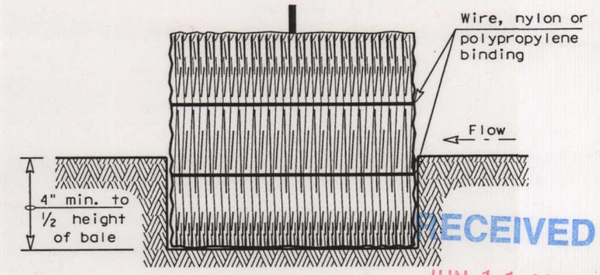
A Baled Hay installation may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A two year storm frequency may be used to calculate the flow rate to be filtered. The installation should be sized to filter a maximum flow thru rate of 5 GPM/FT^2 of cross sectional area. Baled hay may be used at the following locations:

1. Where the runoff approaching the baled hay flows over disturbed soil for less than 100'. If the slope of the disturbed soil exceeds 10%, the length of slope upstream the baled hay should be less than 50'.
2. Where the installation will be required for less than 3 months.
3. Where the contributing drainage area is less than ½ acre.

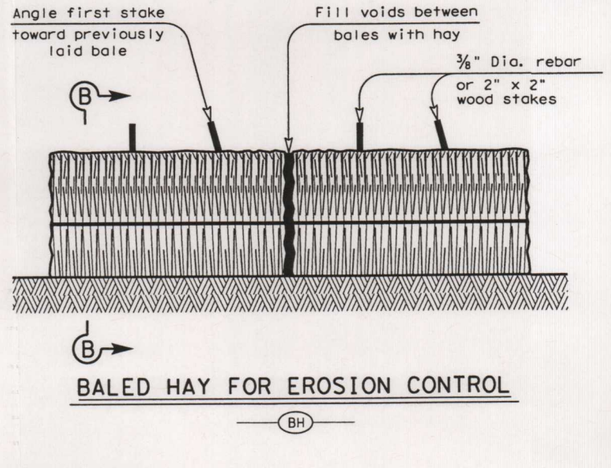
For Baled Hay installations in small ditches, the additional following considerations apply:

1. The ditch sideslopes should be graded as flat as possible to maximize the drainage flowrate thru the hay.
2. The ditch should be graded large enough to contain the overtopping drainage when sediment has filled to the top of the baled hay.

Bales should be replaced usually every 2 months or more often during wet weather when loss of structural integrity is accelerated.



SECTION B-B



BALED HAY FOR EROSION CONTROL

BH

GENERAL NOTES

1. Hay bales shall be a minimum of 30" in length and weigh a minimum of 50 Lbs.
2. Hay bales shall be bound by either wire or nylon or polypropylene string. The bales shall be composed entirely of vegetative matter.
3. Hay bales shall be embedded in the soil a minimum of 4" and where possible ½ the height of the bale.
4. Hay bales shall be placed in a row with ends tightly abutting the adjacent bales. The bales shall be placed with bindings parallel to the ground.
5. Hay bales shall be securely anchored in place with ⅜" Dia. rebar or 2" x 2" wood stakes, driven through the bales. The first stake shall be angled towards the previously laid bale to force the bales together.
6. The guidelines shown hereon are suggestions only and may be modified by the Engineer.

Texas Department of Transportation
Design Division (Roadway)

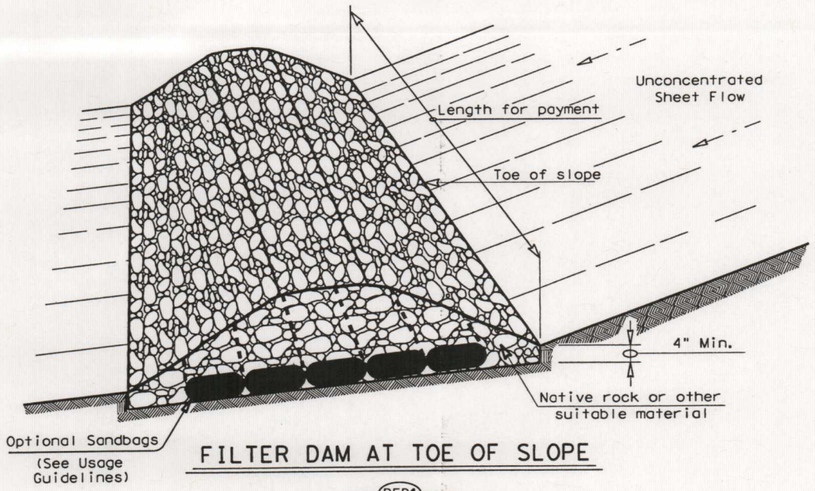
TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

FENCE & BALED HAY

EC(1)-09

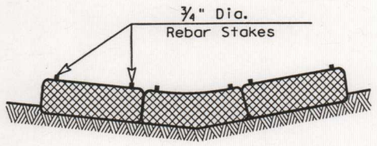
FILE: ec109.dgn	DN: HEJ	CK: HEJ	DW: BCD / TV	CK:	
© TxDOT JUNE 1993	DISTRICT	FEDERAL AID PROJECT			SHEET
REVISIONS	SAT	C 857-1-27			144
Language added to the end of the standard sheet note for silt fence to allow for the use of the new backing.	COUNTY		CONTROL	SECT	JOB	HIGHWAY
	COMAL		0857	01	027	FM 306

LEVELS DISPLAYED

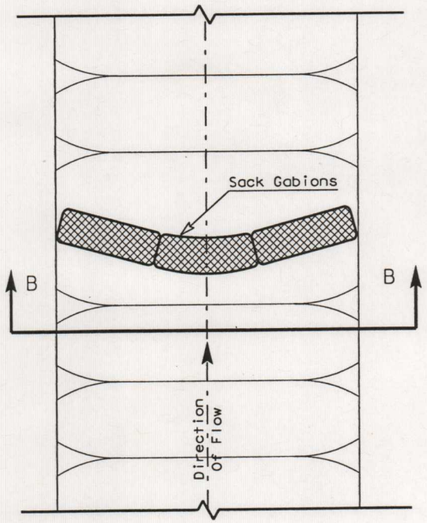


FILTER DAM AT TOE OF SLOPE

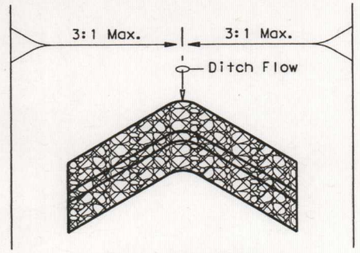
RFD1
TYPE 1



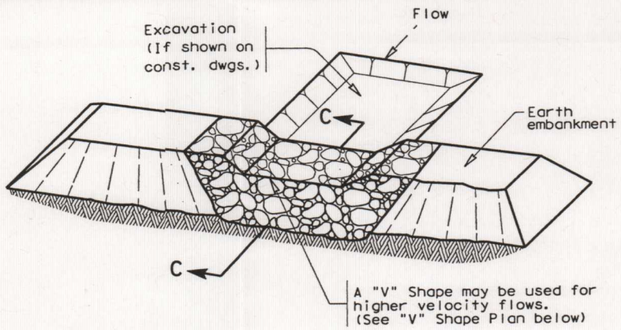
SECTION B-B



PLAN VIEW

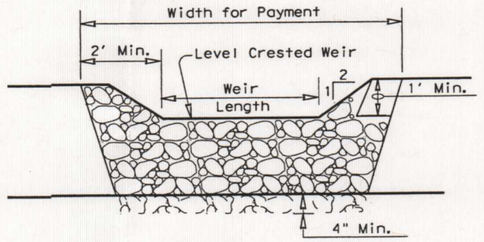


"V" SHAPE
(Plan View)

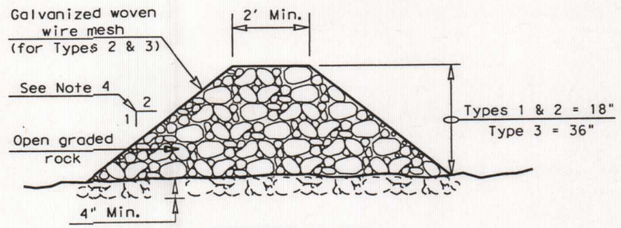


FILTER DAM AT SEDIMENT TRAP

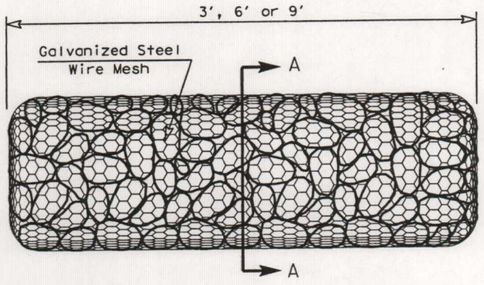
RFD1 — OR — RFD2
TYPE 1 OR TYPE 2



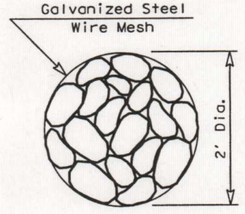
PROFILE



SECTION C-C



TYPE 4 (SACK GABIONS)



SECTION A-A

PLANS SHEET LEGEND

Type 1 Rock Filter Dam — RFD1
Type 2 Rock Filter Dam — RFD2
Type 3 Rock Filter Dam — RFD3

ROCK FILTER DAM USAGE GUIDELINES

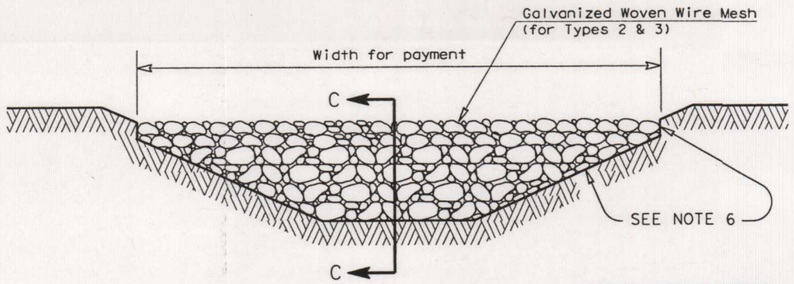
Rock Filter Dams should be constructed downstream from disturbed areas to intercept sediment from overland runoff and/or concentrated flow. The dams should be sized to filter a maximum flow through rate of 60 GPM/FT^2 of cross sectional area. A 2 year storm frequency may be used to calculate the flow rate.

Type 1 (18" high with no wire mesh): Type 1 may be used at the toe of slopes, around inlets, in small ditches, and at dike or swale outlets. This type of dam is recommended to control erosion from a drainage area of 5 acres or less. Type 1 may not be used in concentrated high velocity flows (approx. 8 Ft/Sec or more) in which aggregate wash out may occur. Sandbags may be used at the embedded foundation (4" deep min.) for better filtering efficiency of low flows if called for on the plans or directed by the Engineer.

Type 2 (18" high with wire mesh): Type 2 may be used in ditches and at dike or swale outlets.

Type 3 (36" high with wire mesh): Type 3 may be used in stream flow and should be secured to the stream bed.

Type 4 (Sack gabions): Type 4 May be used in ditches and smaller channels to form an erosion control dam.



FILTER DAM AT CHANNEL SECTIONS

RFD1 — OR — RFD2 — OR — RFD3
TYPE 1 OR TYPE 2 OR

RECEIVED
JUN 1 1 2010
COUNTY ENGINEER

GENERAL NOTES

1. If shown on the plans or directed by the Engineer, filter dams should be placed near the toe of slopes where erosion is anticipated, upstream and/or downstream at drainage structures, and in roadway ditches and channels to collect sediment.
2. Materials (aggregate, wire mesh, sandbags, etc.) shall be as indicated by the specification for "Rock Filter Dams for Erosion and Sedimentation Control".
3. The rock filter dam dimensions shall be as indicated on the SW3P plans.
4. Side slopes should be 2:1 or flatter. Dams within the safety zone shall have sideslopes of 6:1 or flatter.
5. Maintain a minimum of 1' between top of rock filter dam weir and top of embankment for filter dams at sediment traps.
6. Filter dams should be embedded a minimum of 4" into existing ground.
7. The sediment trap for ponding of sediment laden runoff shall be of the dimensions shown on the plans.
8. Rock filter dam types 2 & 3 shall be secured with 20 gauge galvanized woven wire mesh with 1" diameter hexagonal openings. The aggregate shall be placed on the mesh to the height & slopes specified. The mesh shall be folded at the upstream side over the aggregate and tightly secured to itself on the downstream side using wire ties or hog rings. In stream use the mesh should be secured or staked to the stream bed prior to aggregate placement.
9. Sack Gabions should be staked down with ¾" dia. rebar stakes.
10. Flow outlet should be onto a stabilized area (vegetation, rock, etc.).
11. The guidelines shown hereon are suggestions only and may be modified by the Engineer.

LEVELS DISPLAYED
1

Texas Department of Transportation
Design Division (Roadway)

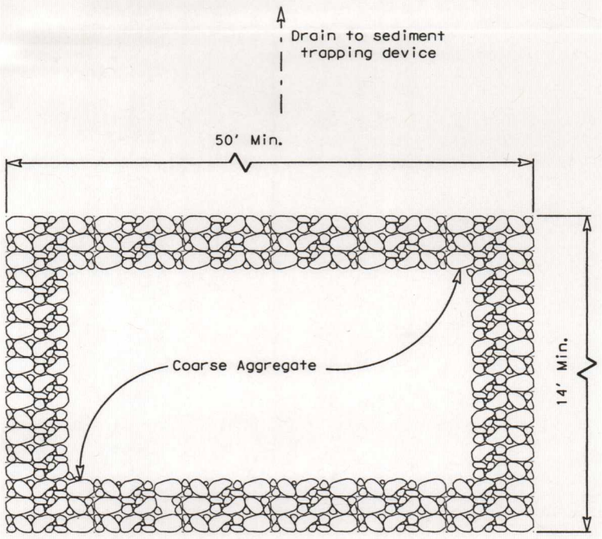
TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

ROCK FILTER DAMS

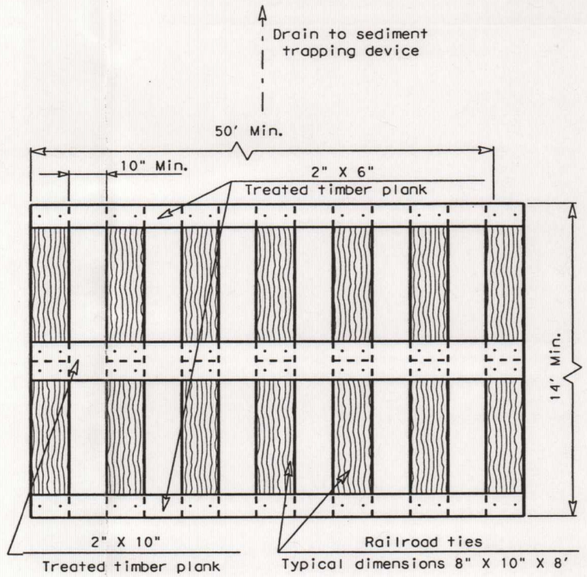
EC(2)-93

FILE: EC293.DGN	DN: HEJ	CK: HEJ	DW: BGD	CK:	
©TxDOT JUNE 1993	DISTRICT	FEDERAL AID PROJECT			SHEET
REVISIONS	SAT	C 857-1-27			145
	COUNTY		CONTROL	SECT	JOB	HIGHWAY
	COMAL		0857	01	027	FM 30

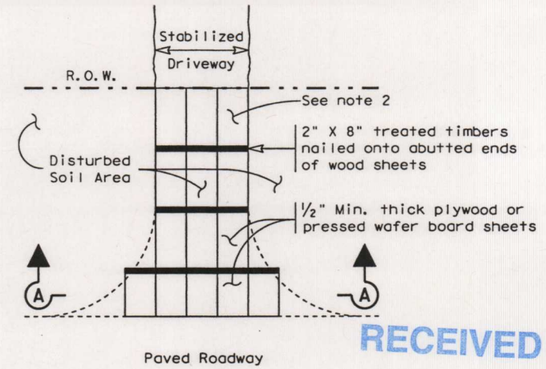
LEVELS DISPLAYED



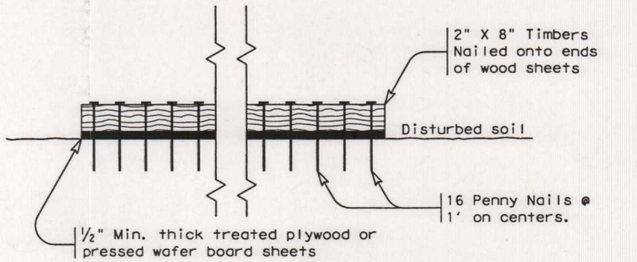
PLAN



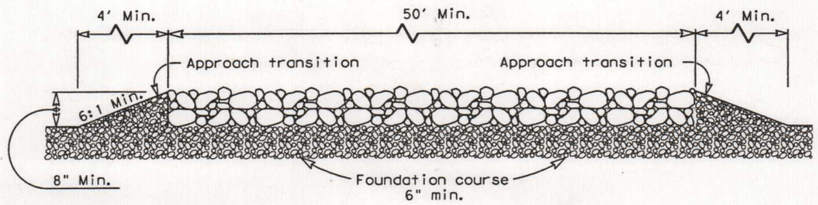
PLAN



PLAN



SECTION A-A

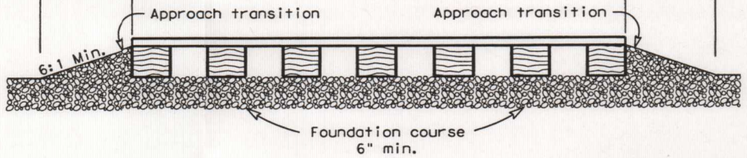


PROFILE

CONSTRUCTION EXIT (TYPE 1)

GENERAL NOTES

1. The length of the type 1 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, 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. The guidelines shown hereon are suggestions only and may be modified by the Engineer.



PROFILE

CONSTRUCTION EXIT (TYPE 2)

GENERAL NOTES

1. The length of the type 2 construction exit shall be as indicated on the plans, but not less than 50'.
2. The treated timber planks shall be attached to the railroad ties with ½"x 6" min. lag bolts. Other fasteners may be used as approved by the Engineer.
3. The treated timber planks shall be #2 grade min., and should be free from large and loose knots.
4. The approach transitions shall be no steeper than 6:1 and constructed as directed by the Engineer.
5. The construction exit foundation course shall be flexible base, bituminous concrete, portland cement concrete or other material as approved by the Engineer.
6. The construction exit should be graded to allow drainage to a sediment trapping device.
7. The guidelines shown hereon are suggestions only and may be modified by the Engineer.

CONSTRUCTION EXIT (TYPE 3)

GENERAL NOTES

1. The length of the type 3 construction exit shall be as shown on the plans, or as directed by the Engineer.
2. The type 3 construction exit may be constructed from open graded crushed stone with a size of two to four inches spread a min. of 4" thick to the limits shown on the plans.
3. The treated timber planks shall be #2 grade min., and should be free from large and loose knots.
4. The guidelines shown hereon are suggestions only and may be modified by the Engineer.

Texas Department of Transportation
Design Division (Roadway)

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

CONSTRUCTION EXITS

EC(3)-93

FILE: EC393.DGN	DN: HEJ	CK: HEJ	DW: BGD	CK:
©TxDOT JUNE 1993	DISTRICT	FEDERAL AID PROJECT		SHEET
REVISIONS	SAT	C 857-1-27		146
	COUNTY	CONTROL	SECT	JOB	HIGHWAY
	COMAL	0857	01	027	FM 30