

Drainage District Engineer/Manager

REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT

Fort Bend County Engineering Department 301 Jackson Suite 401

301 Jackson Suite 401 Richmond, Texas 77469 281.633.7500

Permits@fortbendcountytx.gov

Right of Way P X Commercial Di Permit No: 2018-212	riveway Permit		
Applicant: Drymalla Construction Company, Inc.			
Job Location Site: 3131 Learning Tree Lane, Rosenberg, TX 77471			
Bond No Date of Bond:6/18/1	999 Amount: \$50,000.00		
The above applicant came to make use of certain Fort Ber Laying, Construction, Maintenance, and Repair of Buried O Roads, Streets, Highways, and Drainage Ditches in Fort Be Commissioners Court of Fort Bend County, Texas," as pass Texas, of the Minutes of the Commissioners Court of Fort inconsistant with Chapter 181, Vernon's Texas Statutes an	Cables, Conduits, and Pole Lines, In, Under, Across or Along and County, Texas, Under the Jurisdiction of the sed by the Commissioners Court of Fort Bend County, Bend County, Texas, to the extent that such order is not		
Notes: 1. Evidence of review by the Commissioners Court must be kept on the job site and failure to do so constitutes grounds for job shutdown. 2. Written notices are required: a. 48 hours in advance of construction start up, and b. When construction is completed and ready for final inspection, submit notification to Permit Administrator thru MyGovernmentOnline.org portal. 3. This permit expires one (1) year from date of permit if construction has not commenced.			
On this <u>26th</u> day of <u>June</u> , <u>2018</u> , Upon Motion of Commissioner, seconded by Commissioner, duly put and carried, it is ORDERED, ADJUDGED AND DECREED that said notice of said above purpose is hereby acknowledged by the Commissioners Court of Fort Bend County, Texas, and that said notice be placed on record according to the regulation order thereof.			
Signature	Presented to Commissioners Court and approved.		
By: County Engineer	Date Recorded Comm. Court No		
NI/A	Clerk of Commissioners Court		
N/A By:	Ву:		

Deputy



PERMIT APPLICATION REVIEW FORM FOR **CABLE, CONDUIT, AND POLE LINE ACTIVITY IN FORT BEND COUNTY**

Fort Bend County Engineering Department 301 Jackson Suite 401 Richmond, Texas 77469

281.633.7500 Permits@fortbendcountytx.gov

	Right of Way Permit
X	Commercial Driveway Permi

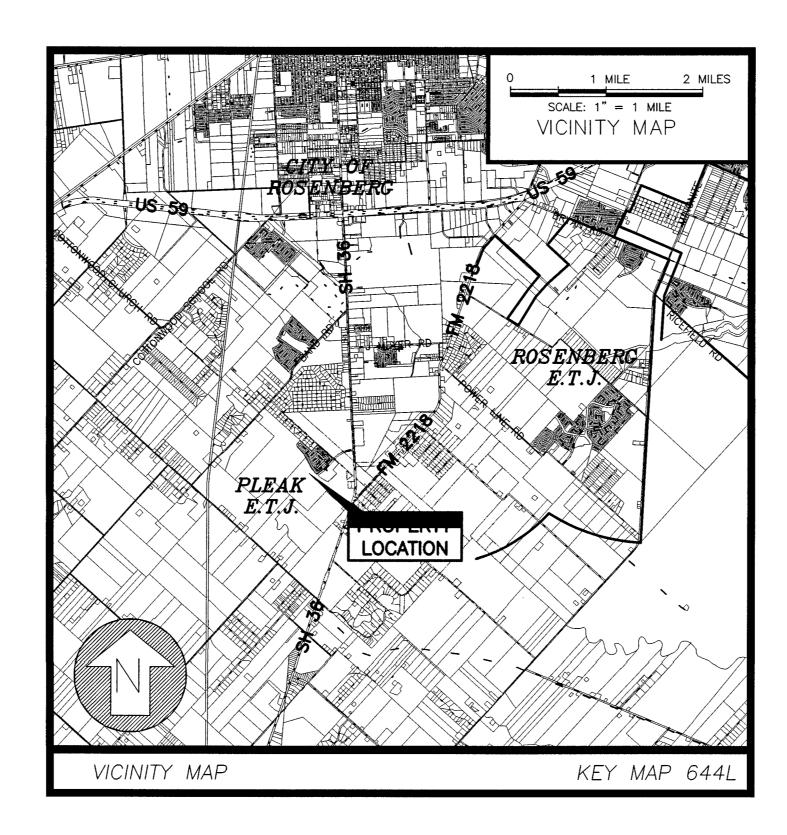
Permit No: 2018-21205

				
The following "Notice of Proposed Cable, Conduit, and/or Pole Line activity in Fort Bend County" and accompanying attachments have been reviewed and the notice conforms to appropriate regulations set by Commissioner's Court of Fort Bend County, Texas.				
(1) COMPLETE APPLICATION FORM:				
X c. Plans and specifications				
(2) BOND:				
County Attorney, approval who	en			
X Perpetual bond currently posted.	Bond No:	Amount: \$50,000.00		
Performance bond submitted.	Bond No:	Amount:		
Cashier's Check	Check No:	Amount:		
(3) DRAINAGE DISTRICT APPROVAL (WHEN APPLICABLE): Drainage District Approval Date				
We have reviewed this project and agree it Permit Administrator	meets minimum req	uirements. 6/18/2018 Date		

CONSTRUCTION PLANS FOR

LAMAR CONSOLIDATED I.S.D. THOMAS CULVER ELEMENTARY

FORT BEND COUNTY, TEXAS



CONSTRUCTION PLANS - SHEET INDEX

SHEET No.	<u>DESCRIPTION</u>
COVER	COVER SHEET
TOPO	TOPOGRAPHIC SURVEY
C1.01	PAVING PLAN
C1.02	GRADING PLAN
C2.01	DRAINAGE PLAN
C2.02	DRAINAGE CALCULATIONS
C3.01	WATER & SANITARY PLAN
C4.01	EROSION CONTROL PLAN
C4.02	EROSION CONTROL DETAILS
C5.01	CONSTRUCTION DETAILS
C5.02	CONSTRUCTION DETAILS
C5.03	CONSTRUCTION DETAILS
C5.04	CONSTRUCTION NOTES & DETA

<u>ENGINEER</u>

KELLY R. KALUZA & ASSOCIATES, INC.

CONSULTING ENGINEERS AND SURVEYORS
ENGINEERING FIRM No. F-1339
3014 AVENUE I
ROSENBERG, TEXAS 77471
(281) 341-0808

MARCH 2018

DUANE H. WHITEHEAD

3. 105210

CENSE NO

ONAL ENG

124/18

ENGINEER: Richard W. STOLLEIS, P.E.

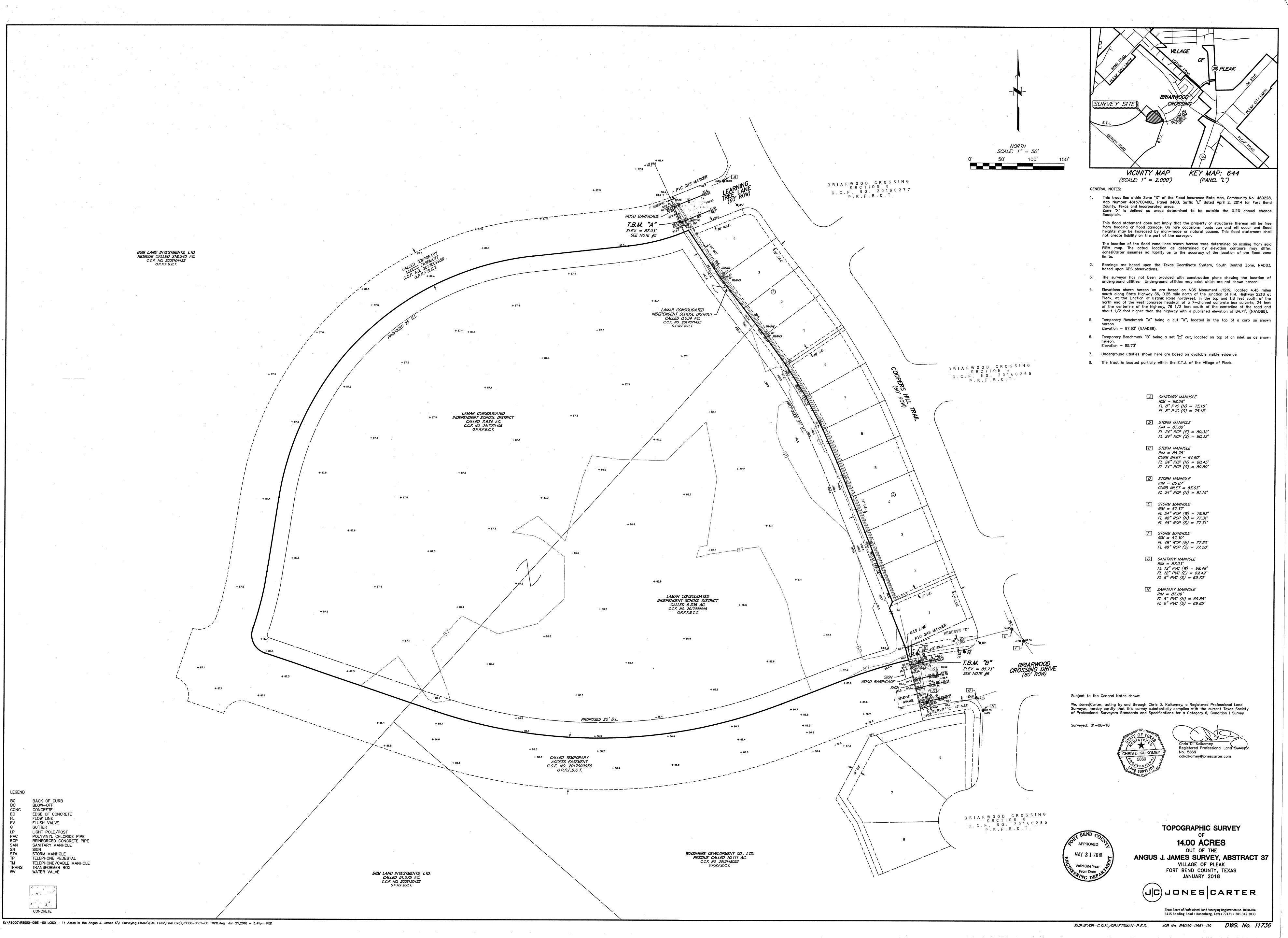
DATE: 5/31/18

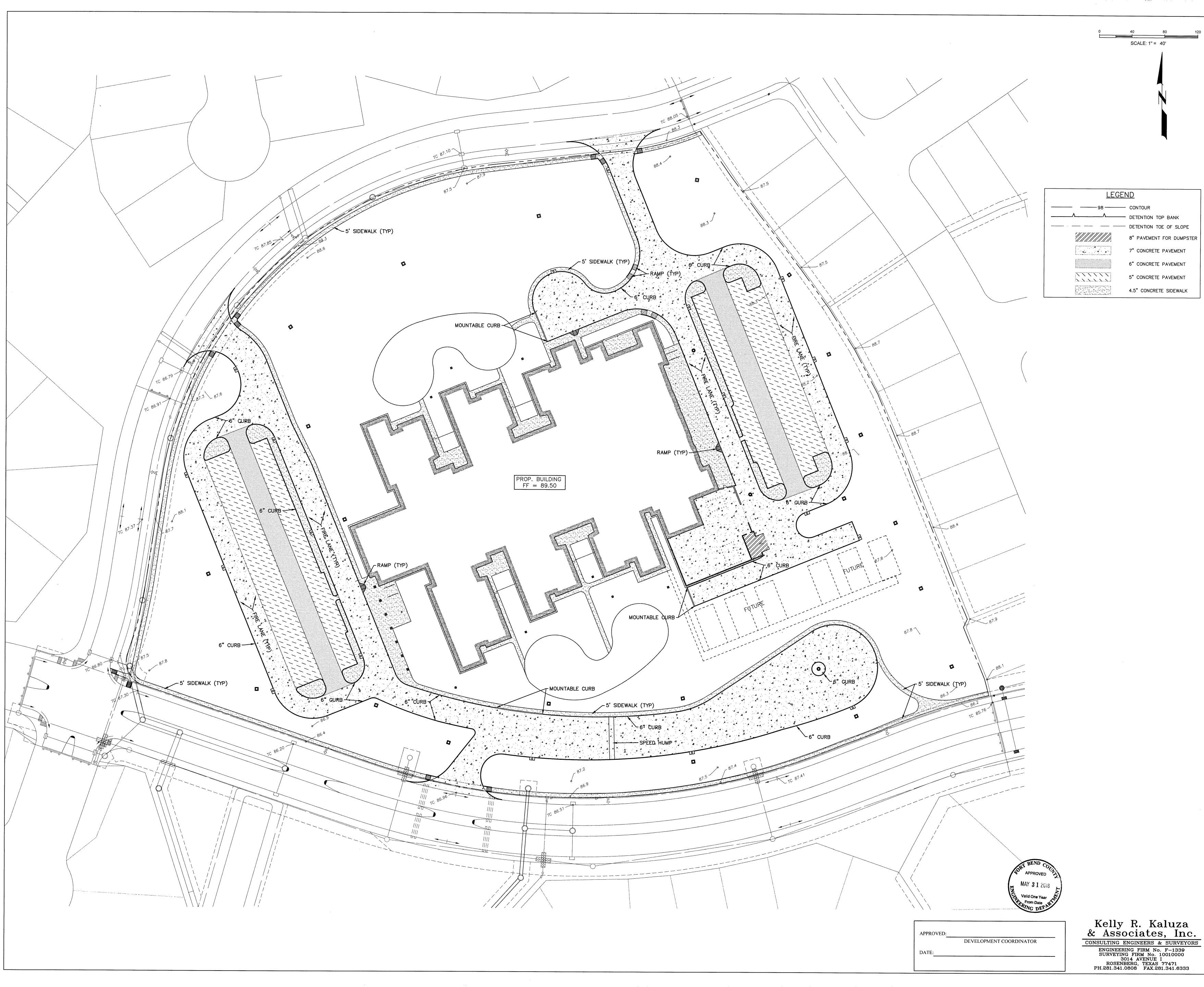
THESE SIGNATURES ARE VOID IF CONSTRUCTION HAS NOT COMMENCED IN (1) YEAR FROM DATE OF APPROVAL.

APPROVED: CASALL ALL DEVELOPMENT COORDINATOR

DATE: 5-31-18

Name:W:\FortBend\School\2017\FBSCHL17-001 (ES #27 - LCISD)\Civil\DWGS\Carter ES - vout Tab:COVER
 ve date:Friday, February 9, 2018 6:22:35 PM
 Plot date: Wednesday, March 28, 2018 11







VLK Architects, Inc.
20445 State Hwy 249, Suite 350
Houston, Texas 77070
Main Phone: 281.671.2300
www.vlkarchitects.com

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M.E.P. Salas O'Brien

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FOOD SERVICE

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LANDSCAPE Pacheco Koch 20445 State Highway 249, Suite 380

Houston, Texas 7700-2623 Main Phone: 281.883.0103

Designer TSA Quality Control STAFF

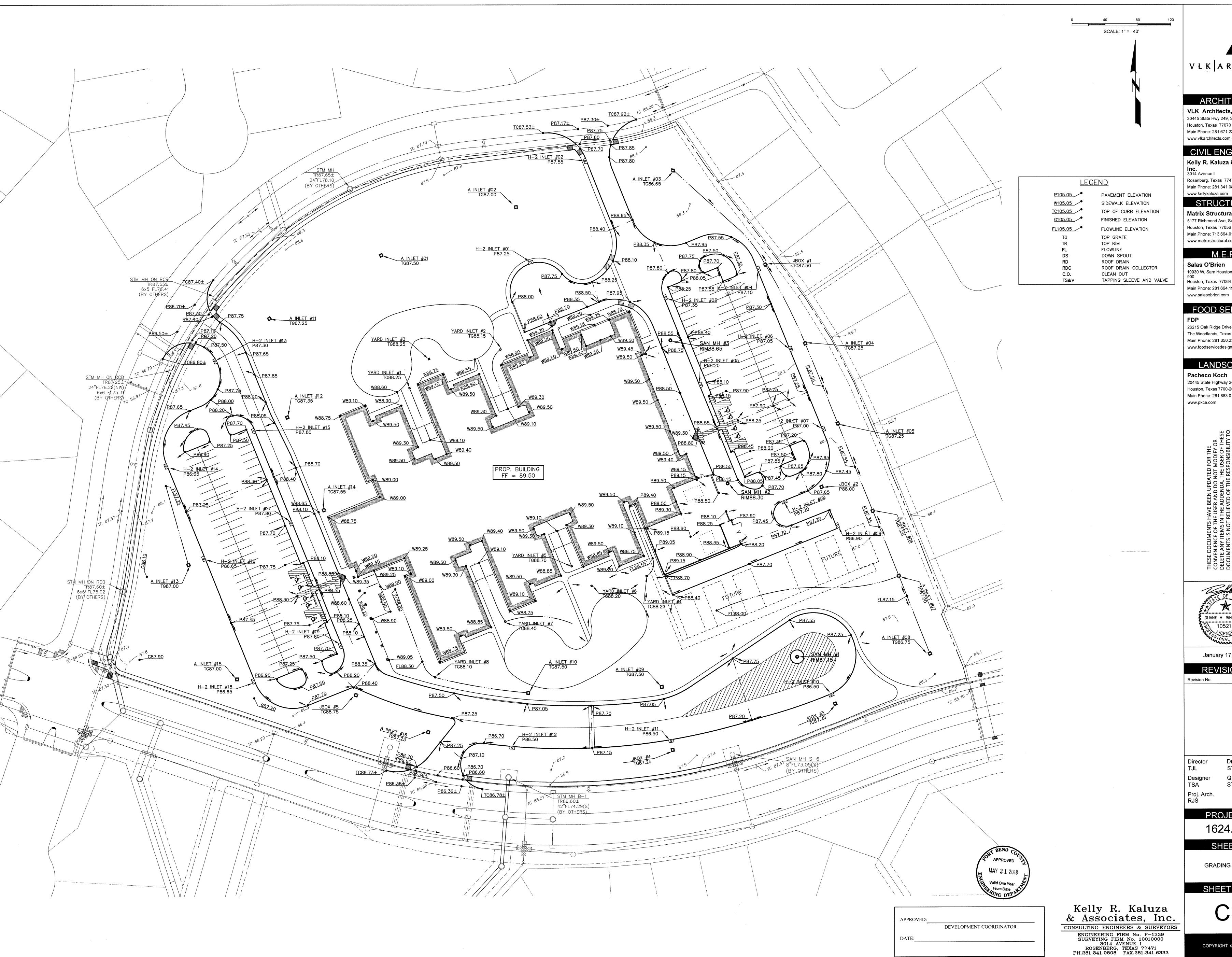
PROJECT 1624.00

SHEET

SHEET NO.

PAVING PLAN

C1.01





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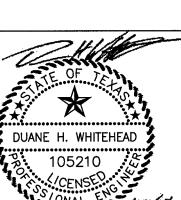
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REVISIONS

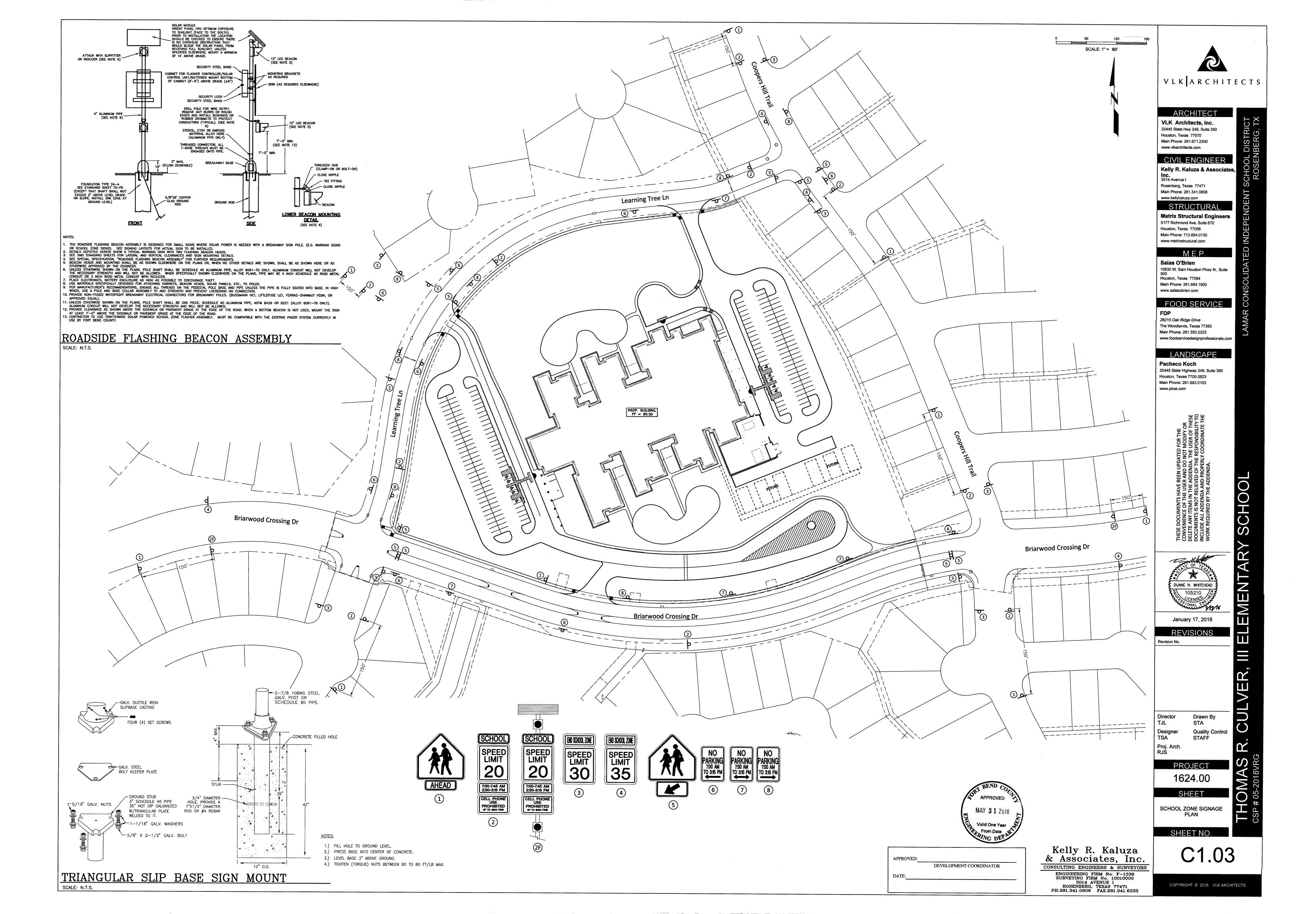
Designer TSA

PROJECT

1624.00

SHEET **GRADING PLAN**

SHEET NO.







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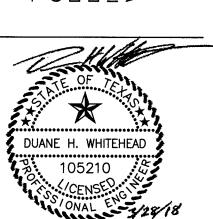
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January 17, 2018

Revision No.

⚠ ADDENDUM #3 2.12.18

Drawn By STA Director Designer TSA **Quality Control**

PROJECT

1624.00

SHEET

DRAINAGE PLAN

SHEET NO.

ENGINEERING FIRM No. F-1339 SURVEYING FIRM No. 10010000 3014 AVENUE I ROSENBERG, TEXAS 77471 PH.281.341.0808 FAX.281.341.6333

V L K A R C H I T E C T S

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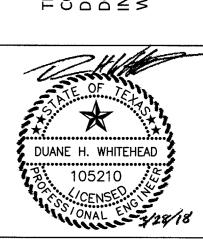
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PROJECT 1624.00

SHEET

DRAINAGE CALCULATIONS

SHEET NO.

APPROVED: DEVELOPMENT COORDINATOR

3-YEAR

HGL

GRA DE

A-8

A-14

A-15

A-20

A10

HYDRAULIC HYDRAULIC

85.61

84.23

84.49

81.47

85.91

86.55

85.11

85.03

83.18

83.04

82.75

3.51 1.50 3.93 1.68 4.54 1.94 5.34

3.77 4.50 4.36 5.20

3.70 6.63 4.27 7.66

1 0.013 0.10 3.13 22.12 3.15 12.35 3.54 13.86 4.09 16.02 4.82 20.77

1 0.013 0.20 3.22 10.12 3.34 4.94 3.74 5.54 4.32 6.40 5.09 8.29

3.03 27.15 0.30 0.61 30 1 0.013 0.13 3.01 14.79 3.29 6.05 3.69 6.78 4.26 7.84 5.02 10.15 5.89 12.99 7.73 17.77

60 0.00 12.56 30.61 0.30 0.58 42 1 0.013 0.10 3.31 31.82 3.06 22.17 3.44 24.89 3.98 28.79 4.69 37.33 5.51 47.87 7.27 65.77

3.36 4.01

1 0.013 0.20 3.22 10.12

1 0.013 0.13 3.01 14.79 3.30 5.91

2.52

6.73

6.01 8.60

5.97 10.60

5.90 12.70 7.75 17.37

5.13

5.03

9.92

GRADE

100-YEAR

HGL

85.33

81.79

86.06

85.87

83.61

82.75

GRADE

84.36

82.96

82.93

83.75 80.96

82.94

80.81

83.04

82.87

82.71

78.62

78.49

82.46

78.28 83.28

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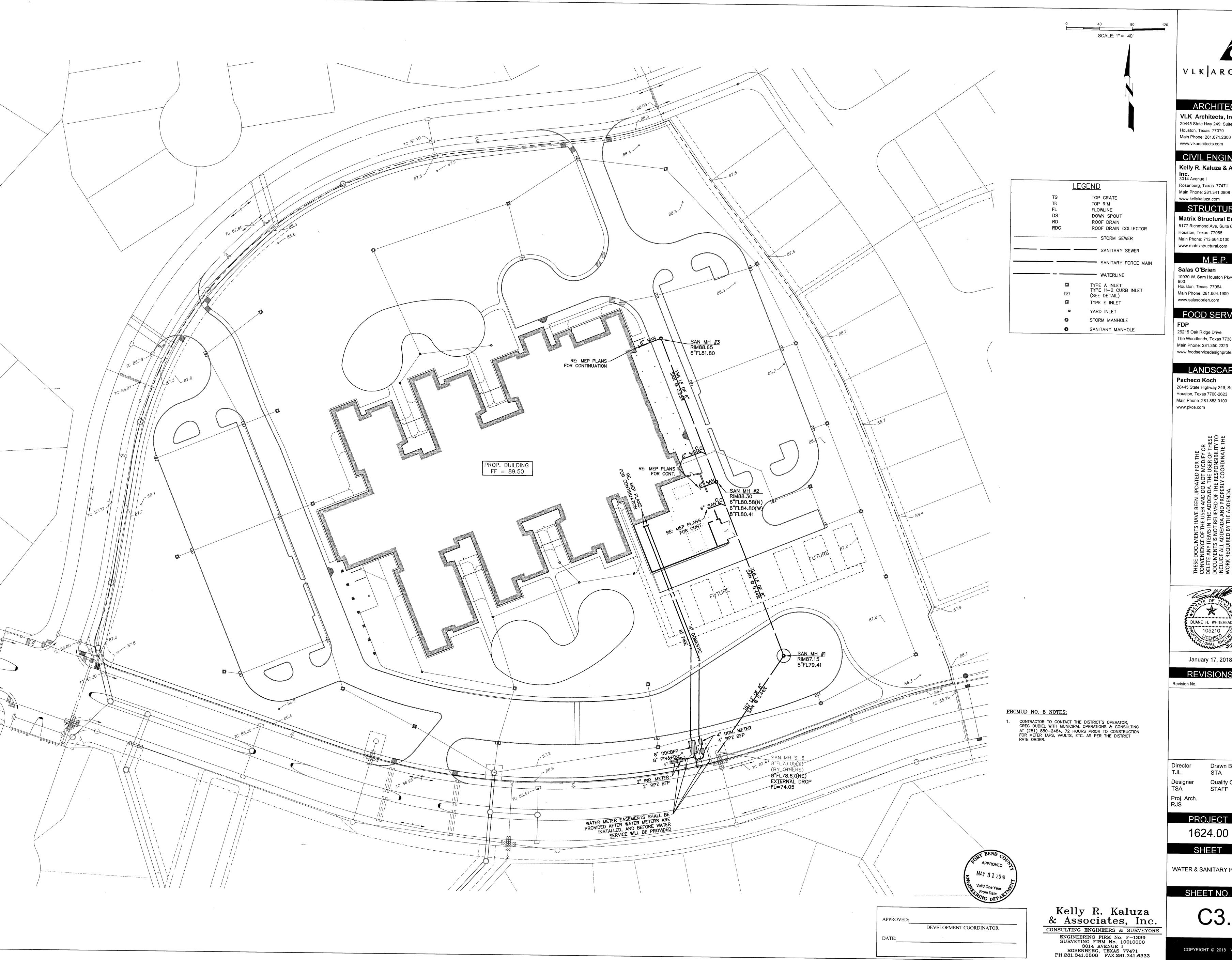
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GRA DE

Kelly R. Kaluza & Associates, Inc. CONSULTING ENGINEERS & SURVEYORS

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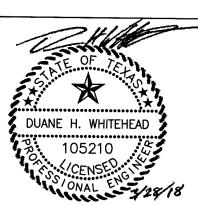
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January 17, 2018

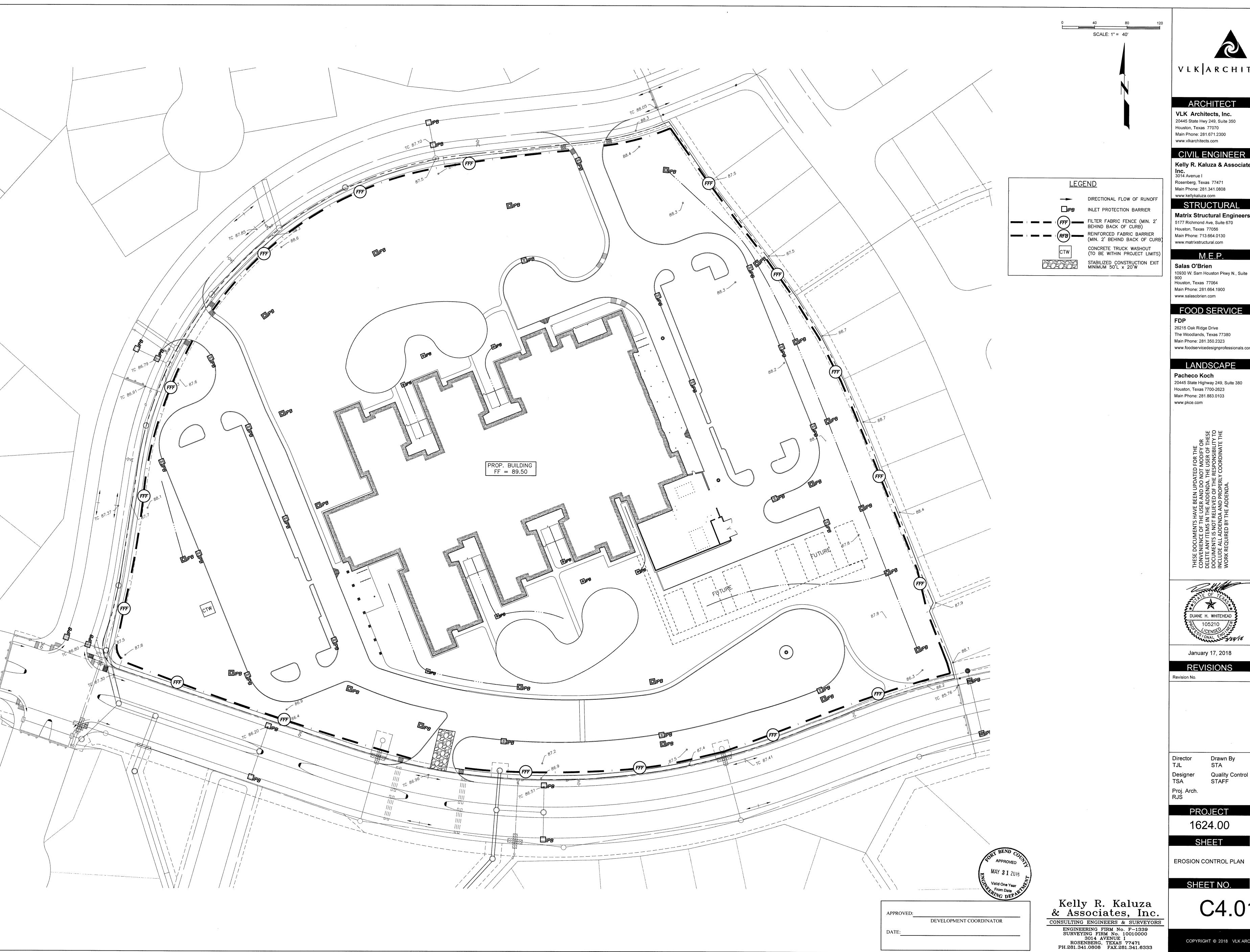
REVISIONS

PROJECT 1624.00

WATER & SANITARY PLAN

SHEET NO.

C3.01





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PROJECT

1624.00

EROSION CONTROL PLAN

SHEET NO.

EROSION AND SEDIMENT CONTROL PLAN NOTES:

SW-3 ALL DETAILS SHALL BE IN ACCORDANCE WITH THE PROJECT

HARRIS COUNTY et.al.

SW-1 STORM WATER FROM ALL AREAS DISTURBED BY THE CONSTRUCTION

SW-2 CONTRACTOR SHALL PREPARE, FILE AND EXECUTE THE STORM WATER

SW-4 CONTRACTOR SHALL KEEP ADJOINING STREETS CLEAR OF MUD AND

REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.

STREET, AS CONSTRUCTION ACTIVITIES.

SW-6 CONTRACTOR SHALL PROV:DE INLET PROTECTION FOR ALL INLETS IN

SW-7 PREFABRICATED INLET PROTECTION MAY BE USED IN PLACE OF FILTER

PUBLIC RIGHT-OF-WAYS ADJACENT TO THE SITE, ON SAME SIDE OF

FABRIC FENCE AND/OR SAND BAGS WHEN APPROVED BY THE ENGINEER.

DEBRIS DEPOSITED DUE TO ON-SITE CONSTRUCTION ACTIVITIES.

SW-5 ALL STOCKPILED MATERIALS SHALL BE CONTAINED WITHIN AN APPROVED DISCHARGE CONTROL DEVICE ON SITE. EXCESS MATERIALS SHALL BE

ACTIVITIES SHALL BE DISCHARGED THROUGH AN APPROVED CONTROL

PREVENTION PLAN IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL

SPECIFICATIONS. REFERENCE: STORM WATER MANAGEMENT HANDBOOK,

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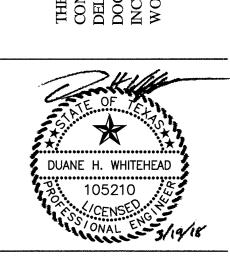
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January 17, 2018

REVISIONS Revision No.

1\ ADDENDUM #3

Director Drawn By STA Quality Control

Designer TSA STAFF Proj. Arch.

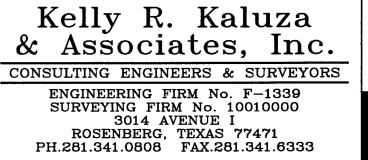
PROJECT

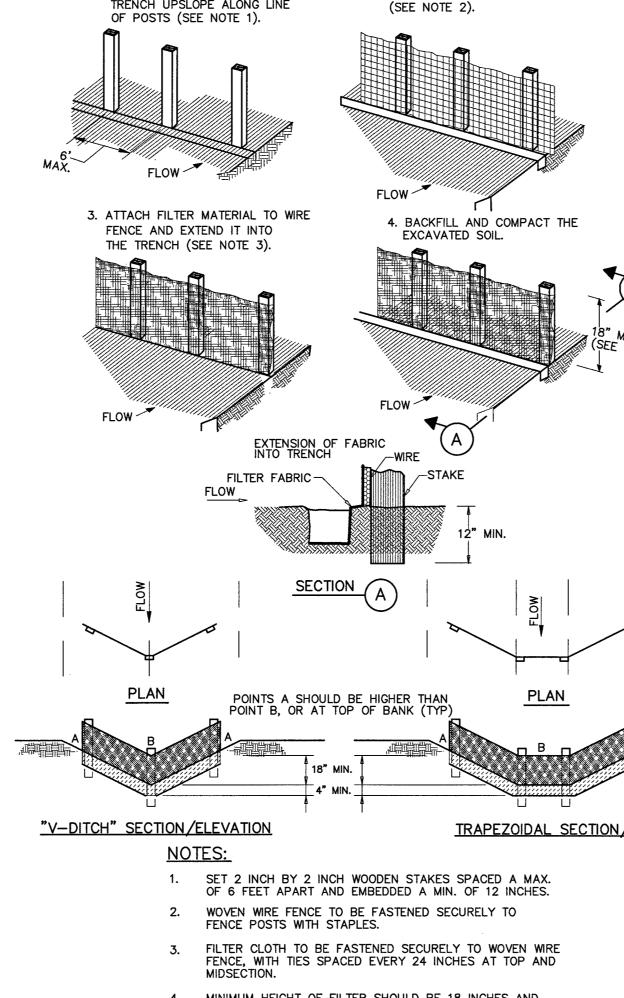
1624.00 SHEET

EROSION CONTROL DETAILS

SHEET NO.

C4.02





2. SECURE WIRE FENCING TO POSTS

1. SET POSTS AND EXCAVATE 4"x4"

TRENCH UPSLOPE ALONG LINE

4. MINIMUM HEIGHT OF FILTER SHOULD BE 18 INCHES AND

A MAXIMUM OF 36 INCHES ABOVE NATURAL GROUND. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED 6 INCHES AT THE POSTS,

AND FOLDED. REINFORCED FILTER FABRIC BARRIER SCALE: N.T.S.

SECTION (C) STRAW BALES STAKED WITH 2 STAKES PER BALE PLAN STRAW BALE DROP INLET PROTECTION BARRIER FILTER FABRIC-EXTENSION OF FABRIC INTO TRENCH -WOOD OR METAL STAKE (MIN 2 INCH BY 2 INCH WOOD POST) TRAPEZOIDAL SECTION/ELEVATION FILTER FABRIC-4-24 INCHES -

-2 INCH BY 2 INCH WOOD STAKE EMBEDDED 8 INCHES

BALE 4-24 INCHES

FROM INLET

∠ SEE CONSTRUCTION

FILTER BARRIER

SILT FENCE INLET PROTECTION BARRIER

INLET PROTECTION BARRIER
SCALE: N.T.S.

NOTES FOR REINFORCED

-STAKED STRAW BALE

COMPACTED SOIL TO PREVENT PIPING

PLACE BAGS SNUG AGAINST CURB SANDBAGS PLACED SNUGLY AROUND INLET

1. SET POSTS AT REQUIRED SPACING.

3. ATTACH FILTER MATERIAL TO

THE TRENCH.

STAKES AND EXTEND IT INTO

EXTENSION OF FABRIC

INTO TRENCH

NOTES:

AND FOLDED.

FILTER FABRIC FENCE SCALE: N.T.S.

EXCAVATE A 4"x4" TRENCH UPSLOPE ALONG THE LINE OF STAKES.

4. BACKFILL AND COMPACT THE

EXCAVATED SOIL.

ALTERNATE V-TRENCH EXTENSION OF FABRIC

ALTERNATE B

FLOW 🦯

FILTER FABRIC -

1. 2 INCH THICK BY 2 INCH WOODEN STAKES TO BE SET AT

HEIGHT OF 36 INCHES ABOVE NATURAL GROUND.

MAX. SPACING OF 3 FEET AND EMBEDDED A MIN. OF 8 INCHES.

IF PREASSEMBLED FENCE WITH SUPPORT NETTING IS USED,

ATTACH FILTER FABRIC TO WOODEN STAKES. FILTER FABRIC

FENCE SHALL HAVE A MIN. HEIGHT OF 18 INCHES AND MAX.

WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER

THEY SHOULD BE OVERLAPPED 6 INCHES AT THE POSTS,

SPACING OF POST MAY BE INCREASED TO 8 FEET MAX.

GENERAL NOTES:

1. BAGS OR WATTLES CAN BE USED FOR THIS APPLICATION.

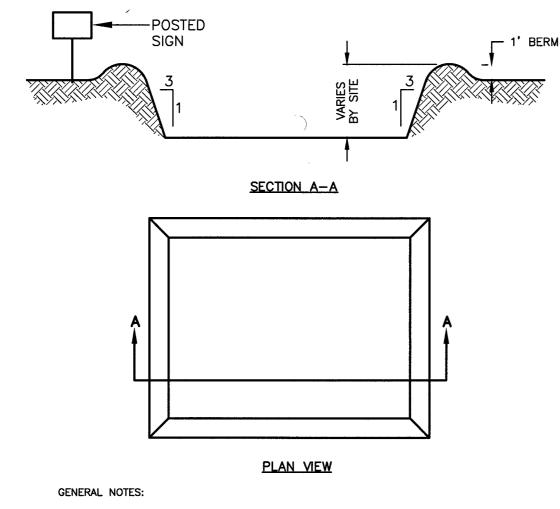
2. PROVIDE WOVEN OR UNWOVEN GEOTEXTILE FILTER FABRIC FOR BAGS. 3. PROVIDE COARSE SAND AND AGGREGATE MIX FOR FILL MATERIAL FOR BAGS. USE ONLY PARTICLES CONSISTING OF CLEAN, HARD, DURABLE MATERIALS FREE FROM ADHERENT COATINGS, SALT, ALKALI, DIRT, CLAY, LOAM, SHALE, SOFT OR FLAKY MATERIALS, OR ORGANIC AND INJURIOUS MATTER.

4. REMOVE SEDIMENT DEPOSIT WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-THIRD THE HEIGHT OF THE BARRIER.

5. PRE-MANUFACTURED CURB INLET PROTECTION, SUCH AS GutterGator® OR APPROVED EQUAL, MAY BE SUBSTITUTED FOR SAND BAGS AT CURB INLETS.

CURB INLET PROTECTION

SCALE: N.T.S.



CONSTRUCTION NOTES:

LESS THAN 50 FEET.

SEPERATION GEOTEXTILE

FABRIC FOR FULL WIDTH

COARSE AGGREGATE

AND LENGTH OF EXIT

OR EGRESS.

EXISTING GROUND

EXISTING

GROUND

2. THICKNESS SHALL BE NOT LESS THAN 8 INCHES.

FOR THE TRUCK WASHING AREA.

1. LENGTH SHALL BE AS SHOWN ON THE CONSTRUCTION DRAWINGS, BUT NOT

3. WIDTH SHALL BE NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS

4. STABILIZATION FOR OTHER AREAS SHALL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION

EXIT, UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION DRAWINGS.

5. STABILIZED AREA MAY BE WIDENED OR LENGTHENED TO ACCOMODATE A

PROFILE

PLAN VIEW

STABILIZED CONSTRUCTION EXIT

BETWEEN STABILIZED CONSTRUCTION

ENTRANCE AND PUBLIC RIGHT-OF-WAY

6. STABILIZED CONSTRUCTION EXIT SHALL BE MAINTAINED FREE OF SEDIMENT FOR THE DURATION OF THE PROJECT.

7. CONTRACTOR SHALL COORDINATE LOCATION WITH AGENCIES.

TRUCK WASHING AREA. AN OUTLET SEDIMENT TRAP MUST BE PROVIDED

PUBLIC

RIGHT-OF-WAY

RIGHT-OF-WA

GRADED TO PREVENT

RUN-OFF FROM LEAVING SITE

 POST A SIGN READING "CONCRETE WASH OUT PIT" NEXT TO THE PIT.
 VERBALLY INSTRUCT THE CONCRETE TRUCK DRIVERS WHERE THE PIT IS AND TO WASH OUT THEIR TRUCKS IN THE PIT ONLY. THEIR TRUCKS IN THE PIT ONLY.

3. UPON THE CONCRETE SETTING UP (CURING, DRYING OUT), THE CONCRETE WASTE SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF PROPERLY BY THE CONTRACTOR. AFTER REMOVAL OF THE CONCRETE WASTE, THE WASH OUT PIT SHALL BE FILLED WITH CLEAN FILL MATERIAL AND COMPACTED TO IN—SITU CONDITIONS, OR AS DIRECTED BY THE PROJECT SPECIFICATIONS.

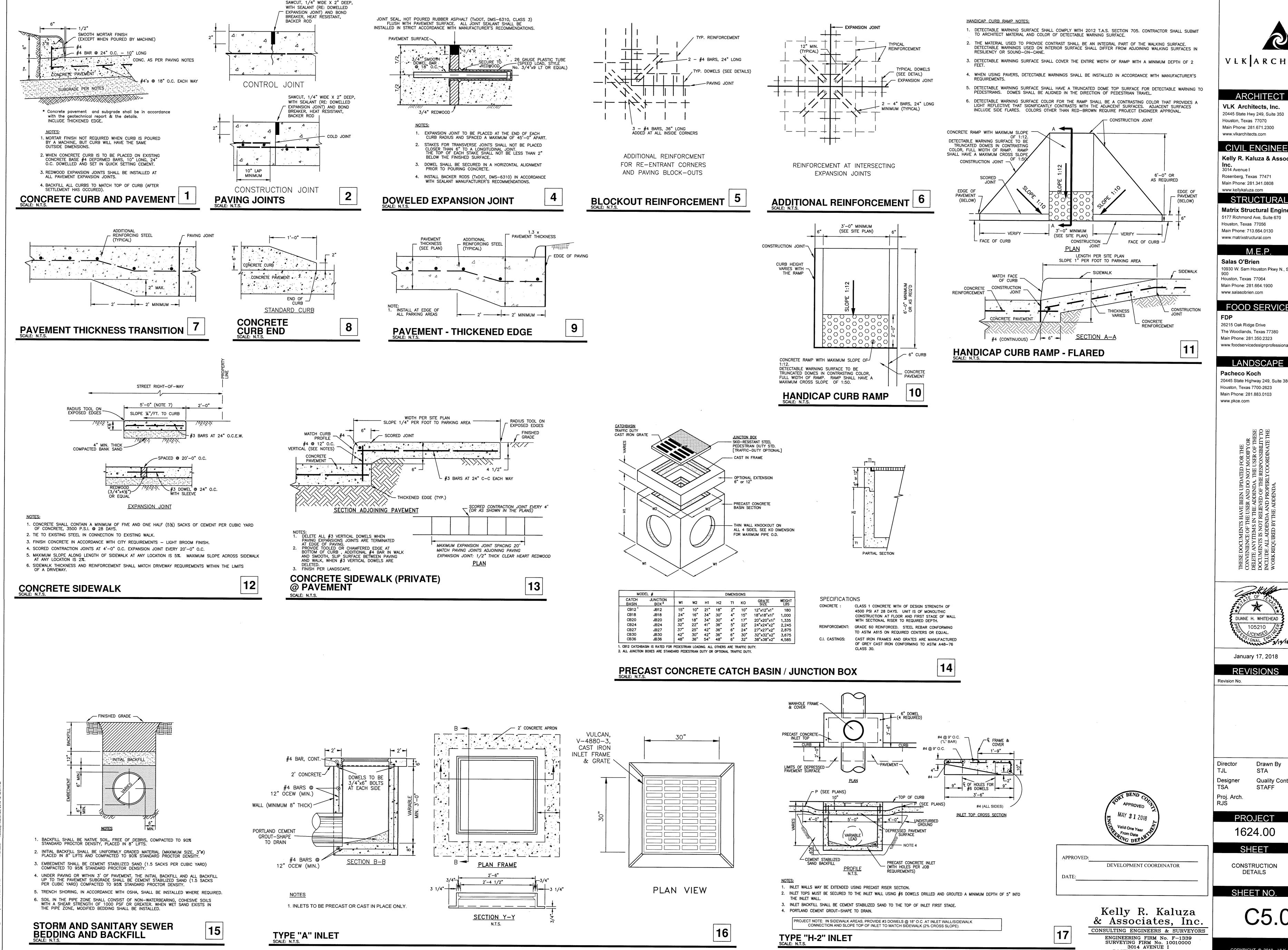
4. CONCRETE WASH OUT PITS SHALL NOT BE LOCATED DIRECTLY ADJACENT TO, NOR AT ANY TIME DRAIN INTO THE STORM SEWER SYSTEM OR ANY OTHER SWALE, DITCH, OR WATERWAY.

5. CONSTRUCT ENTRY ROAD AND BOTTOM OF WASH OUT AREA TO SUPPORT EXPECTED LOADINGS FROM TRUCKS & EQUIPMENT.

CONCRETE TRUCK WASH OUT AREA

APPROVED: DEVELOPMENT COORDINATOR

CONSULTING ENGINEERS & SURVEYORS



V L K | A R C H | T E C T S

ARCHITECT

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January 17, 2018

REVISIONS

Drawn By STA Quality Contro

PROJECT OMA 2018

1624.00

CONSTRUCTION

SHEET NO.

ROSENBERG, TEXAS 77471 PH.281.341.0808 FAX.281.341.6333 C5.01

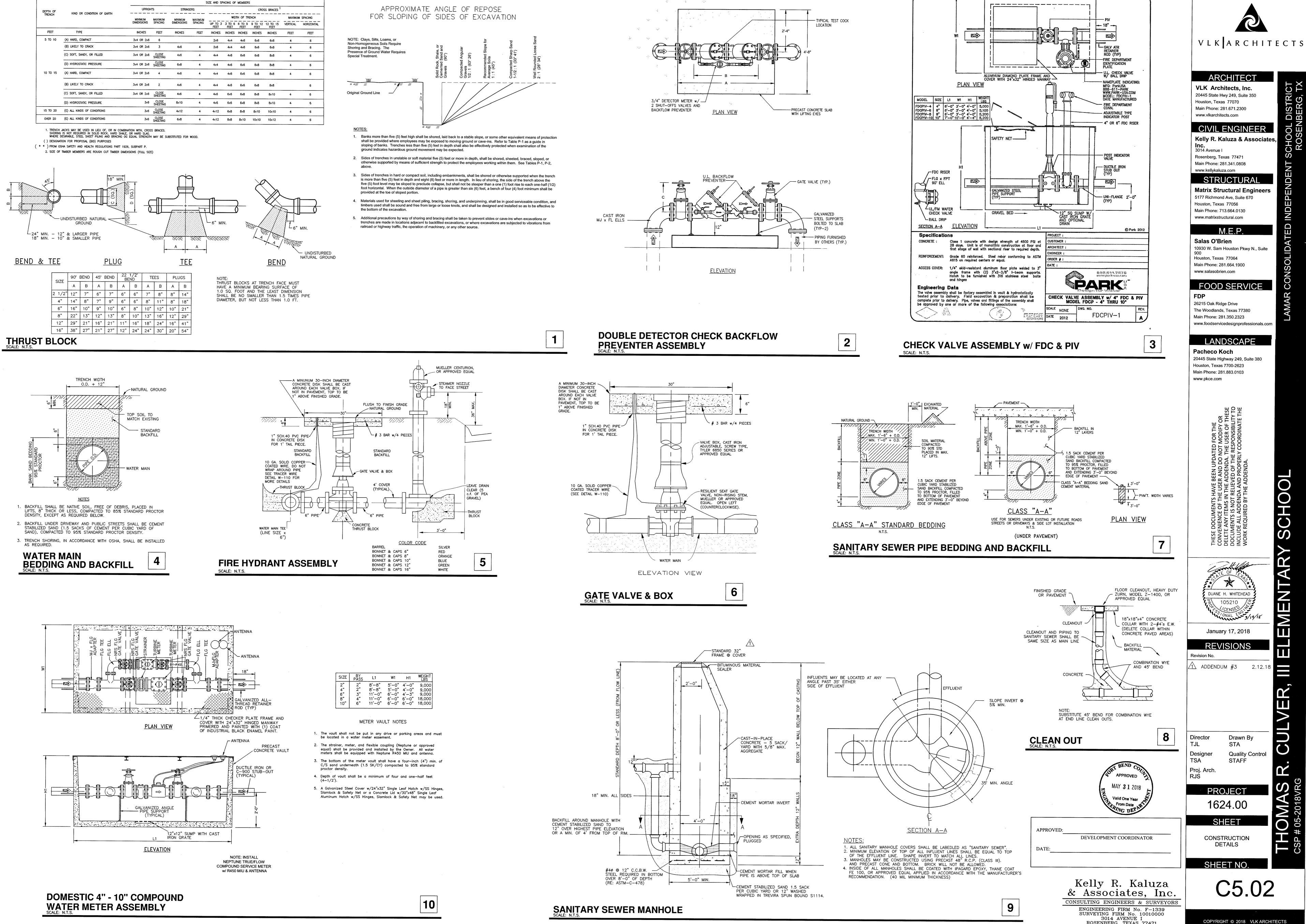
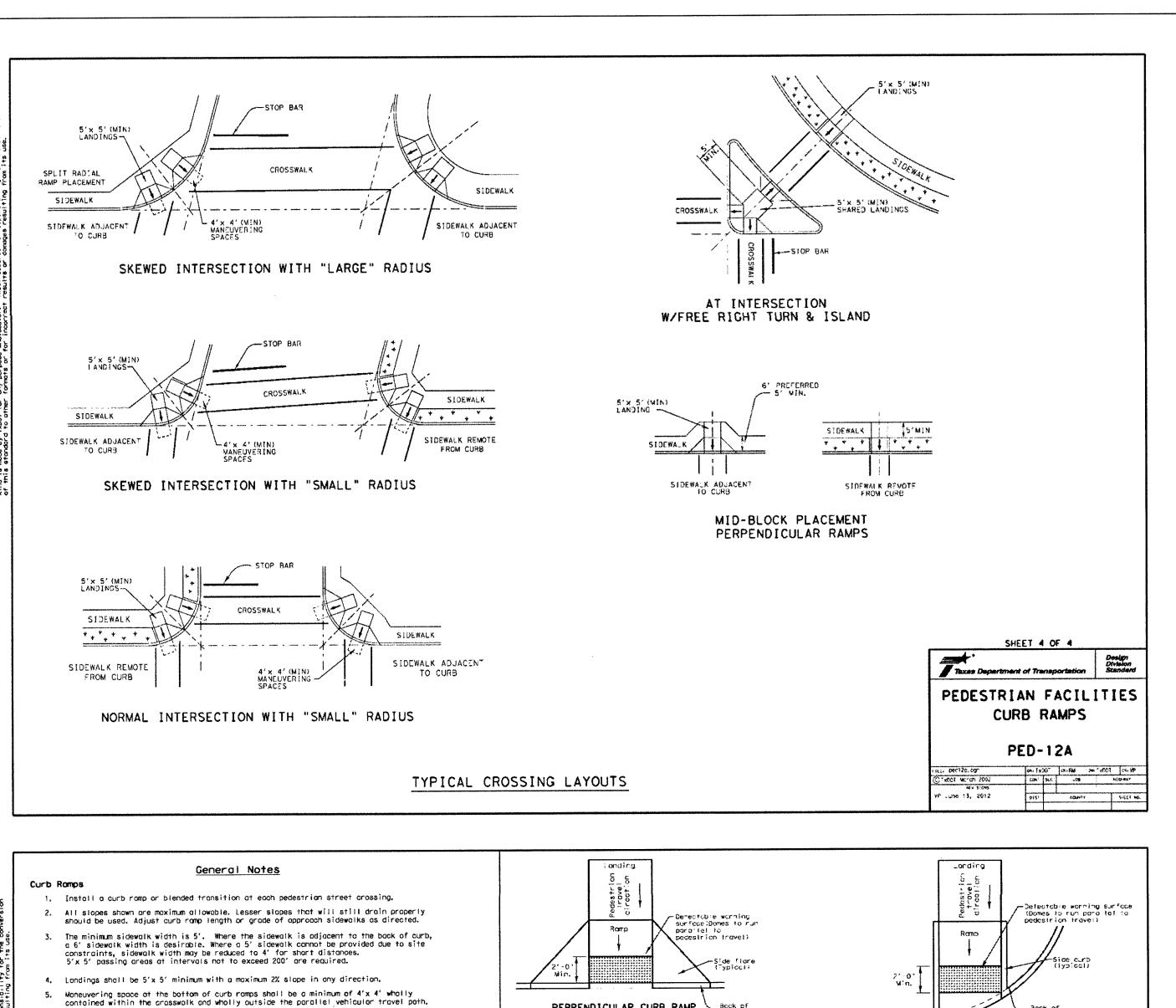


TABLE P-1 - TRENCH SHORING - MINIMUM REQUIREMENTS

ROSENBERG, TEXAS 77471 PH.281.341.0808 FAX.281.341.6333



Maximum allowable cross slope on sidewalk and curb ramp surfaces is 2%.

Provide flored sides where the pedestrion circulation path crosses the curb romp. Flored sides shall be sloped at 10% maximum, measured parallel to the curb. Returned

curbs may be used only where pedestrians would not normally walk across the ramp, either because the adjacent surface is planted, substantially obstructed, or

Additional information on curb ramp location, design, light reflective value and texture may be found in the current edition of the Texas Accessibility Standards (TAS) and 16 TAC 68.102.

10. Small channelization islands, which do not provide a minimum 5'x 5' landing at the top

Crosswalk dimensions, crosswalk markings and stop bor locations shall be as shown elsewhere in the pians. At intersections where crosswalk markings are not required, curb ramps shall align with theoretical crosswalks unless otherwise directed. 12. Handrails are not required on curb ramps. Provide curb ramps wherever on accessible

13. Curb ramps and landings shall be constructed and paid for in accordance with Item 531 "Sidewalks".

9. To serve as a pedestrian refuge area, the median should be a minimum of 6' wide, measured from back of curbs. Medians should be designed to provide accessible

of curb ramps, shall be cut through level with the surface of the street.

14. Place concrete at a minimum depth of 5" for ramps, flores and landings, unless

16. Curbs shown on sheet 1 within the limits of payment are considered part of the curb

18. Curb ramps must contain a detectable warning surface that consists of raised truncated dames complying with Section 705 of the TAS. The surface must contrast visually with adjoining surfaces, including side flares. Furnish and install an

19. Detectable Warning Materials must meet TxDOT Departmental Materials Specification

approved cast-in-place dark brown or dark red detectable warning surface material adjacent to uncolored concrete, unless specified elsewhere in the plans.

20. Detectable warning surfaces must be slip resistant and not allow water to accumulate.

pedestrian travel, and extend the full width of the curb ramp or landing where the

21. Detectable warning surfaces shall be a minimum of 24" in depth in the direction of

22. Detectable warning surfaces shall be located so that the edge nearest the curb line

23. Shoded areas on Sheet 1 of 4 indicate the approximate location for the detectable

is at the back of curb. Align the rows of domes to be perpendicular to the grade

break between the ramp run and the street. Detectable warning surfaces may be curved

DMS 4350 and be listed on the Material Producer List. Install products in accordance

ramp for payment, whether it is concrete curb, gutter, or combined curb and gutter.

17. Existing features that comply with TAS may remain in place unless otherwise shown on

15. Provide a smooth transition where the curb ramps connect to the street.

otherwise directed.

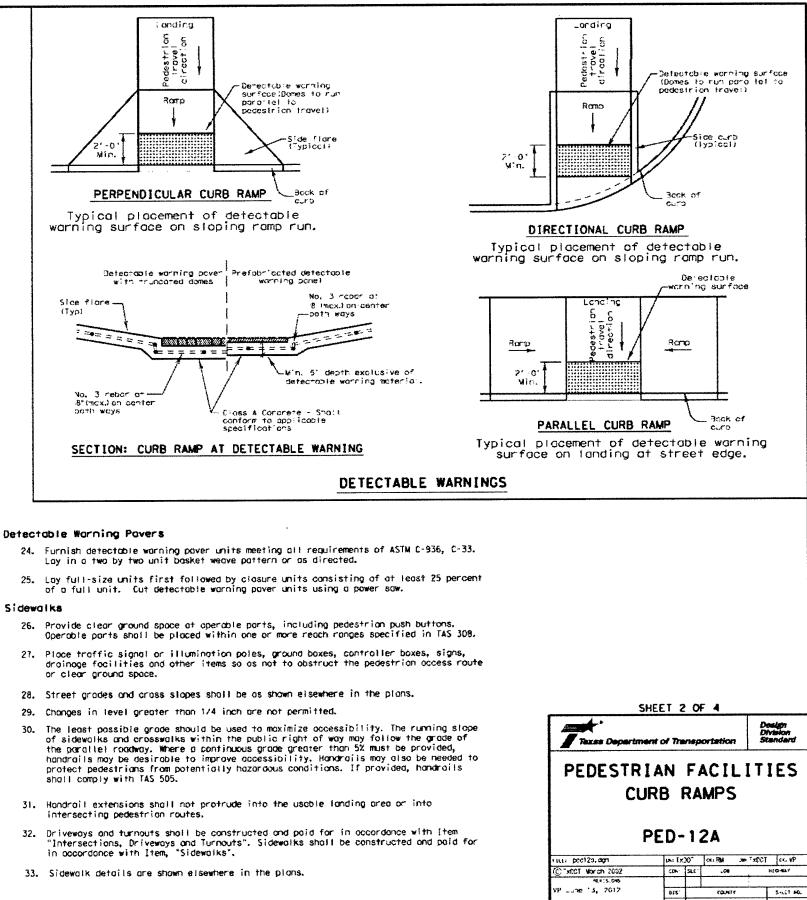
Detectoble Worning Moterial

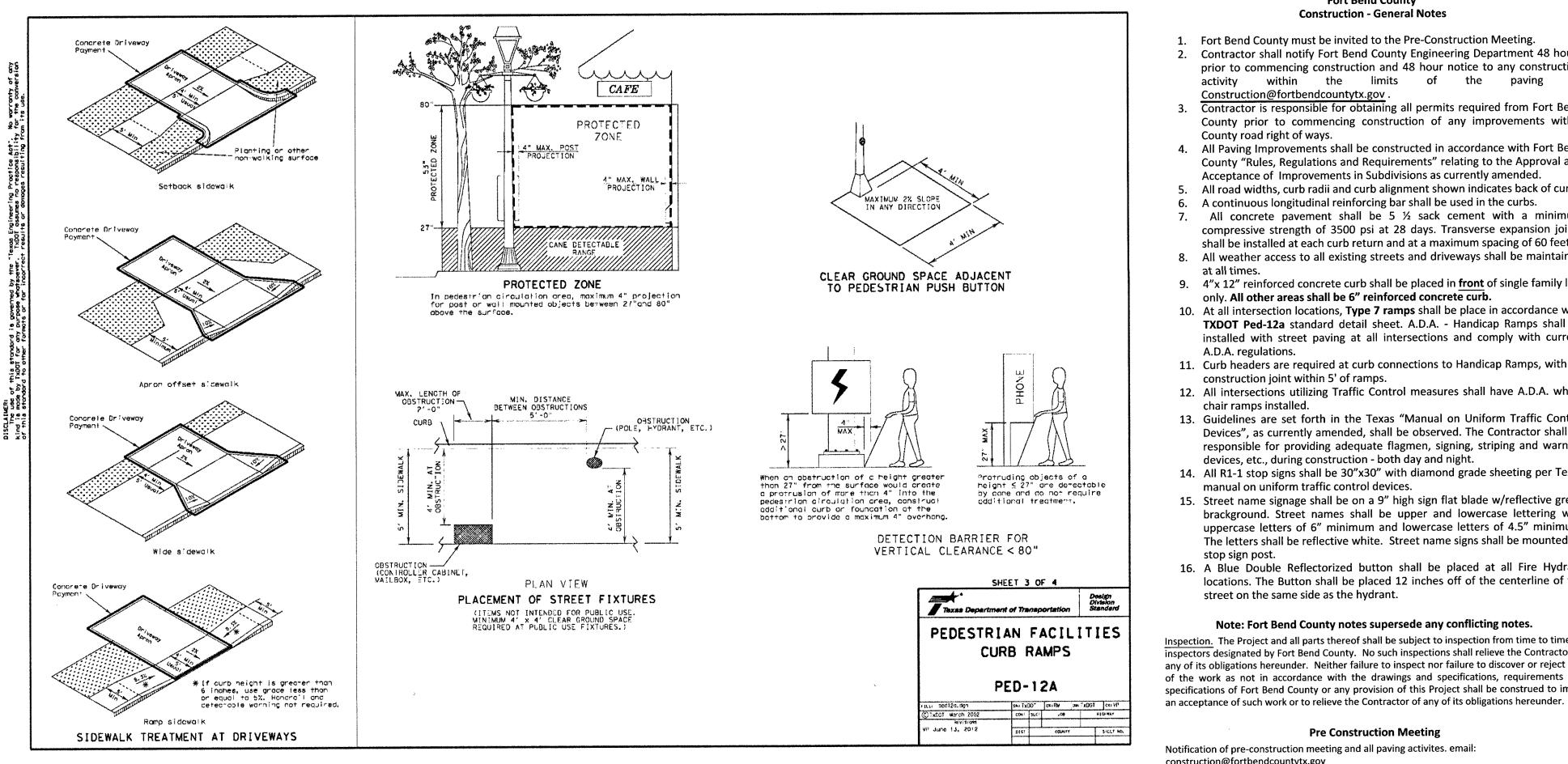
with manufacturer's specifications.

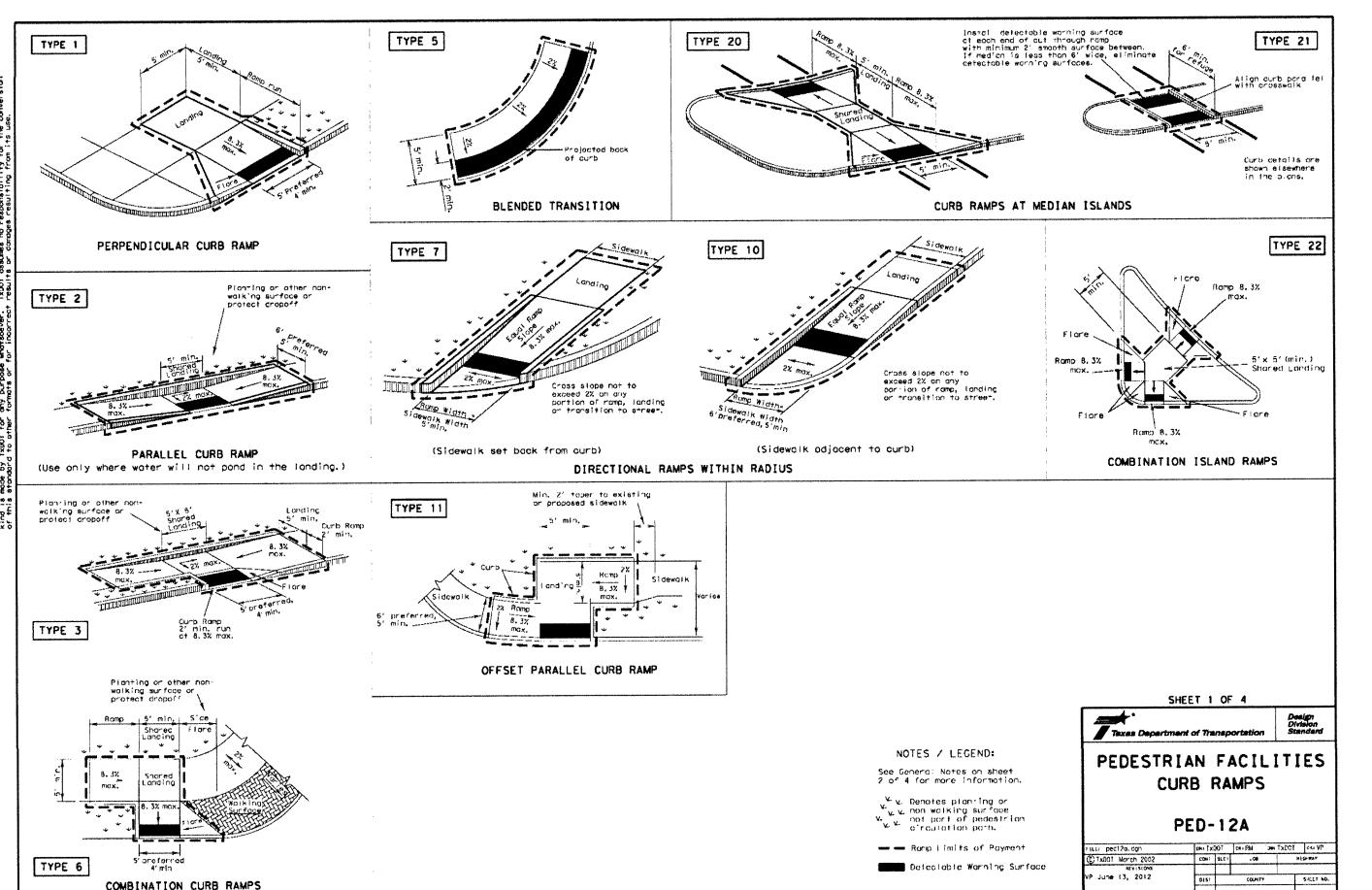
along the corner radius.

pedestrian access route enters the street.

worning surface for each curb ramp type.







Fort Bend County Construction - General Notes

- . Fort Bend County must be invited to the Pre-Construction Meeting. Contractor shall notify Fort Bend County Engineering Department 48 hours prior to commencing construction and 48 hour notice to any construction activity within the limits of the paving at
- Construction@fortbendcountytx.gov .

 Contractor is responsible for obtaining all permits required from Fort Bend County prior to commencing construction of any improvements within
- County road right of ways. 4. All Paving Improvements shall be constructed in accordance with Fort Bend
- County "Rules, Regulations and Requirements" relating to the Approval and Acceptance of Improvements in Subdivisions as currently amended.
- 5. All road widths, curb radii and curb alignment shown indicates back of curb 6. A continuous longitudinal reinforcing bar shall be used in the curbs. 7. All concrete pavement shall be 5 ½ sack cement with a minimum compressive strength of 3500 psi at 28 days. Transverse expansion joints shall be installed at each curb return and at a maximum spacing of 60 feet.
- 8. All weather access to all existing streets and driveways shall be maintained at all times. 9. 4"x 12" reinforced concrete curb shall be placed in **front** of single family lots only. All other areas shall be 6" reinforced concrete curb.
- 10. At all intersection locations, Type 7 ramps shall be place in accordance with TXDOT Ped-12a standard detail sheet. A.D.A. - Handicap Ramps shall be installed with street paving at all intersections and comply with current A.D.A. regulations.
- 11. Curb headers are required at curb connections to Handicap Ramps, with no construction joint within 5' of ramps.
- 12. All intersections utilizing Traffic Control measures shall have A.D.A. wheel chair ramps installed. 13. Guidelines are set forth in the Texas "Manual on Uniform Traffic Control Devices", as currently amended, shall be observed. The Contractor shall be
- responsible for providing adequate flagmen, signing, striping and warning devices, etc., during construction - both day and night. 14. All R1-1 stop signs shall be 30"x30" with diamond grade sheeting per Texas manual on uniform traffic control devices.
- 15. Street name signage shall be on a 9" high sign flat blade w/reflective green brackground. Street names shall be upper and lowercase lettering with uppercase letters of 6" minimum and lowercase letters of 4.5" minimum. The letters shall be reflective white. Street name signs shall be mounted on
- 16. A Blue Double Reflectorized button shall be placed at all Fire Hydrant locations. The Button shall be placed 12 inches off of the centerline of the street on the same side as the hydrant.

specifications of Fort Bend County or any provision of this Project shall be construed to imply

Note: Fort Bend County notes supersede any conflicting notes. <u>Inspection.</u> The Project and all parts thereof shall be subject to inspection from time to time by inspectors designated by Fort Bend County. No such inspections shall relieve the Contractor of any of its obligations hereunder. Neither failure to inspect nor failure to discover or reject any of the work as not in accordance with the drawings and specifications, requirements and

Pre Construction Meeting Notification of pre-construction meeting and all paving activites. email:

construction@fortbendcountytx.gov (provide one set of approved construction plans). V L K A R C H I T E C T S

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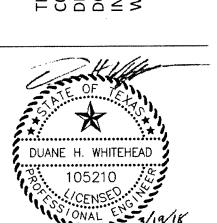
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www.salasobrien.com

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LANDSCAPE

Pacheco Koch 20445 State Highway 249, Suite 380 Houston, Texas 7700-2623 Main Phone: 281.883.0103



January 17, 2018

REVISIONS

Revision No.

Director

Quality Contro Designer TSA STAFF Proj. Arch.

RJS PROJECT

1624.00

SHEET CONSTRUCTION

SHEET NO.

DETAILS

C5.03

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APPROVED

APPROVED: DEVELOPMENT COORDINATOR

> Kelly R. Kaluza & Associates, Inc. CONSULTING ENGINEERS & SURVEYORS ENGINEERING FIRM No. F-1339 SURVEYING FIRM No. 10010000

3014 AVENUE I
ROSENBERG, TEXAS 77471
PH.281.341.0808 FAX.281.341.6333

COMBINATION CURB RAMPS

G-3 UNDERGROUND UTILITIES HAVE BEEN SHOWN BASED ON THE SURVEY. TILITY SERVICE LINES MAY NOT BE SHOWN. UTILITY INFORMATION IS NOT GUARANTEED. CONTRACTOR SHALL NOTIFY ALL UTILITIES OF THE PROJECT PRIOR TO BEGINNING CONSTRUCTION TO VERIFY THE LOCATION OF ALL UTILITIES. CONTRACTOR SHALL NOTIFY THE "LONE STAR 811" (811 OR 1-800-669-8344) AND CONFIRM ALL UTILITY LOCATIONS PRIOR TO

G-4 THE CONTRACTOR SHALL PROPERLY DISPOSE OF ALL UNSATISFACTORY AND/OR WASTE MATERIALS INCLUDING VEGETATION, ROOTS, CONCRETE, AND DEBRIS RELATED TO THE PROJECT.

G-5 CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART VI OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TEXAS MUTCD MOST RECENT EDITION AS REVISED) AND AS REQUIRED BY THE COUNTY OR GOVERNING AUTHORITY DURING CONSTRUCTION WITHIN THE PUBLIC R.O.W. CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL IN THE PROJECT AREA.

G-6 CONTRACTOR SHALL CONFINE ALL WORK TO THE PROJECT BOUNDARY AND AREAS DIRECTLY ADJOINING THE WORK IN THE PUBLIC RIGHT-OF-WAY. EXISTING PAVEMENTS. CURBS. SIDEWALKS. DRIVEWAYS. LANDSCAPING. FENCES AND OTHER EXISTING IMPROVEMENTS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED IN ACCORDANCE WITH THE COUNTY OR GOVERNING AUTHORITIES REQUIREMENTS. CONDITION OF THE ROAD AND/OR RIGHT-OF-WAY, DURING AND UPON COMPLETION OF THE JOB. SHALL BE AS GOOD AS OR BETTER THAN THE CONDITION PRIOR TO CONSTRUCTION. CONTRACTOR SHALL PROMPTLY CLEAN MUD. DIRT OR DEBRIS TRACKED ONTO EXISTING STREETS FROM THE PROJECT SITE.

G-7 UNLESS OTHERWISE NOTED, MAINTAIN 6 INCHES OF VERTICAL CLEARANCE (MINIMUM) AT CROSSINGS BETWEEN ALL UNDERGROUND CONDUITS.

G-8 CONTRACTOR SHALL COMPLY WITH OSHA REGULATIONS AND STATE OF TEXAS LAW CONCERNING EXCAVATION, TRENCHING AND SHORING.

G-9 ALL TRENCH BACKFILL ABOVE THE PIPE ZONE UP TO WITHIN ONE FOOT BELOW THE TOP OF FINISHED SUBGRADE AND UNDER OR WITHIN TWO FOOT BEYOND THE EDGE OF PROPOSED PAVEMENT SHALL BE CEMENT STABILIZED SAND (1.5 SACKS PER CUBIC YARD) AND SHALL BE COMPACTED TO A DENSITY OF NINETY-FIVE (95) PERCENT, STANDARD PROCTOR, MAXIMUM DRY DENSITY, WITH MOISTURE WITHIN 3 PERCENT OF OPTIMUM (ASTM D698).

G-10 EXCEPT UNDER PAVEMENT OR AS OTHERWISE REQUIRED FOR THE PROJECT, TRENCH BACKFILL ABOVE THE PIPE ZONE MAY BE NATIVE MATERIAL. NATIVE MATERIAL BACKFILL SHALL BE PLACED IN LOOSE LIFTS OF LESS THAN EIGHT (8) INCHES COMPACTED TO A DENSITY OF NINETY-FIVE (95) PERCENT, STANDARD PROCTOR, MAXIMUM DRY DENSITY, WITH MOISTURE WITHIN 3 PERCENT OF OPTIMUM.

G-11 ALL UTILITY TRENCHES SHALL BE EXCAVATED AND BACKFILLED WHILE THE TRENCH IS DRY. DENSITY TESTING SHALL BE COMPLETED ON ALL BACKFILL AT A RATE OF ONE TEST FOR EVERY 75 FEET OF TRENCH (WITH A MINIMUM OF 3 TESTS) PER LIFT. IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING RÉPORT, PLACE CLAY PLUG OR EQUAL SEAL WHERE UTILITY TRENCHES ENTER THE BUILDING.

G-12 CONTRACTOR SHALL MAINTAIN ADEQUATE DRAINAGE AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT.

G-13 YARD AREAS, SIDEWALKS AND PAVEMENT SHALL BE GRADED TO DRAIN AWAY FROM THE BUILDINGS. FINISHED SURFACES IN ACCESSIBLE AREAS SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT AND TEXAS ACCESSIBILITY STANDARDS. ACCESSIBLE ROUTES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ARCHITECTURAL DRAWINGS. ALL PAVING, SIDEWALKS AND RAMPS IN ACCESSIBLE AREAS SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT, TEXAS ACCESSIBILITY STANDARDS AND WITH THE FOLLOWING: A. PARKING AND LOADING AREAS - MAXIMUM SLOPE OF 1:50 IN ALL DIRECTIONS IN ACCESSIBLE PARKING SPACES AND AISLES. B. ACCESSIBLE ROUTES - MAXIMUM SLOPE OF 1:20 IN THE DIRECTION OF TRAVEL. MAXIMUM CROSS SLOPE OF 1:50. C. BUILDING ENTRANCES AND EXITS - AT ALL LOCATIONS 5'x5' (MINIMUM)

G-14 CONTRACTOR SHALL GRADE THE SITE TO MATCH EXISTING GROUND AT THE LIMITS OF THE PROJECT SITE. ALL DRAINAGE ENTERING THE PROJECT AREA SHALL BE INTERCEPTED IN THE FINAL GRADING. TRANSITIONS TO EXISTING GROUND THAT ARE DIFFERENT FROM THE PLANS SHALL BE COORDINATED WITH THE OWNER PRIOR TO FINAL GRADING.

ACCESSIBLE, CONCRETE WALK WITH A MAXIMUM SLOPE OF 1:50 IN ALL

G-15 ALL AREAS WITHIN THE PROJECT SITE SHALL BE GRADED TO DRAIN TO ON SITE DRAINAGE FACILITIES, EXCEPT AS SHOWN ON THE PLAN.

G-16 ALL AREAS DISTURBED BY CONSTRUCTION, WHICH ARE NOT PAVED OR OTHERWISE COVERED IN THE DOCUMENTS, SHALL BE SEEDED WITH HYDRO-MULCH AND MAINTAINED UNTIL A SATISFACTORY STAND OF GRASS HAS BEEN ESTABLISHED. ALL AREAS WITHIN PUBLIC RIGHT-OF-WAY SHALL BE SOLID SOD. AREAS ADJACENT TO CURB AND/OR SIDEWALK SHALL BE SOLID SODDED WITH A MINIMUM OF 2 ROWS OF SODDING.

G-17 CONTRACTOR SHALL VERIFY ALL ELEVATIONS, DIMENSIONS AND CONDITIONS IN THE FIELD BEFORE COMMENCING ANY WORK. CONTRACTOR SHALL REPORT ANY CONFLICTS OR VARIATIONS AND RESOLVE ALL CHANGES WITH THE OWNER PRIOR TO COMMENCING THE WORK.

G-18 NOTIFICATION OF PRE-CONSTRUCTION MEETING AND ALL PAVING ACTIVITIES; EMAIL: CONSTRUCTION@FORTBENDCOUNTYTX.GOV (PROVIDE ONE SET OF APPROVED CONSTRUCTION PLANS).

P-1 REFERENCE: GEOTECHNICAL ENGINEERING REPORT, PREPARED BY

TERRACON DATED OCTOBER 19, 2017. PROJECT #92175312.

P-2 PAVING AREAS SHALL BE STRIPPED OF TOPSOIL, ORGANIC MATERIALS AND

THE GEOTECHNICAL STUDY. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF TREES AND PLANTS THAT

P-3 PER THE GEOTECH REPORT, PAVING SUBGRADE SHALL BE SIX (6) INCHES

THICK AND BE STABILIZED WITH LIME IN ACCORDANCE w/ TXDOT

WEIGHT. CONTRACTOR SHALL COMPLY WITH LIME DETERMINATION

ARE BEING SAVED ADJOINING THE SITE PAVING AND WALKS.

ANY UNSUITABLE MATERIAL. TREE ROOTS AND VEGETATION SHALL BE

REMOVED TO BELOW THE PROPOSED SUBGRADE DEPTH AS REQUIRED IN

STANDARD SPECIFICATIONS ITEM 260 AT A RATE OF 6-8% LIME BY DRY

REQUIREMENTS PREPARED BY THE OWNER'S TESTING LAB AT THE TIME

THE SUBGRADE IS EXCAVATED TO THE PROPOSED ELEVATIONS. PAVING

SUBGRADE SHALL BE COMPACTED TO A MINIMUM DENSITY OF NINETY FIVE

OPTIMUM AND +4 PERCENT WET OF OPTIUM (ASTM D698). PAVING SHALL

(95) PERCENT OF MAXIMUM DENSITY WITH MOISTURE CONTENT BETWEEN

BE PLACED WITHIN 14 DAYS ON COMPLETION OF THE SUBGRADE OR SHALL BE SEALED WITH AN EMULSION BASED SEALER. ALL TRAFFIC SHALL BE KEPT OFF OF THE SUBGRADE FOR AT LEAST 7 DAYS. HEAVY TRAFFIC SHALL NOT BE ALLOWED TO DRIVE DIRECTLY ON THE PAVING SUBGRADE.

P.S.I. AT 28 DAYS. CONCRETE SHALL INCLUDE A MINIMUM OF FIVE AND

COARSE AGGREGATÉ SHALL HAVE A MAXIMUM DIAMETER OF ONE AND ONE-HALF (1-1/2) INCHES. TRAFFIC SHALL BE PROHIBITED ON NEWLY

ONE-HALF (5-1/2) SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.

P-4 CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3500

CONSTRUCTED PAVEMENT. SAW CUT PAVEMENT JOINTS SHALL BE

P-5 REINFORCING STEEL SHALL BE NEW BILLET STEEL AS FOLLOWS: REBAR

COMPLETED WITHIN 6 TO 12 HOURS AFTER CONCRETE IS PLACED.

SHALL CONFORM TO ASTM A615, GRADE 60 FOR ALL BARS. WELDED

LAPPED 36 TIMES THE BAR DIAMETER UNLESS OTHERWISE REQUIRED.

BETWEEN ELEVATIONS SHOWN ON THE PLANS. CONTRACTOR SHALL

P-7 ISOLATION JOINTS SHALL BE PLACED AT ALL LOCATIONS THAT SITE PAVING

AND SIDEWALKS ABUT THE BUILDING AND OTHER SITE STRUCTURES,

ISOLATION JOINTS SHALL HAVE A REMOVABLE TOP STRIP AND SHALL BE

INCREASED TO 1.3 TIMES THE REQUIRED THICKNESS AT ALL ISOLATION

P-8 PROVIDE AN ADDITIONAL THICKNESS OF CONCRETE, EQUAL TO 1.3 TIMES THE REQUIRED PAVING THICKNESS, AT THE EDGE OF ALL CONCRETE

P-9 PAVING JOINTS ARE TO BE ALIGNED WITH THE CENTERLINE OF THE DRIVING AISLES AND AT CURB RETURNS. WHERE DIMENSIONS ARE NOT

CONSISTENT WITH THE GEOTECH RECOMMENDATIONS.

REVIEW AND APPROVAL PRIOR TO POURING CONCRETE

PAVING AND ADJOINING STRUCTURES (E.G. INLETS, MANHOLES) WITHIN

PROVIDED, THE CONTRACTOR SHALL COORDINATE JOINT LOCATIONS WITH INLETS AND OTHER STRUCTURES AND SHALL PROVIDE THE JOINT SPACING

P-10 CONTRACTOR SHALL SUBMIT A PAVING JOINT PLAN TO THE ENGINEER FOR

SEALED WITH PAVING JOINT SEALANT. THE PAVING THICKNESS SHALL BE

CONFIRM IN THE FIELD THAT ALL PAVED AREAS ARE CONSTRUCTED TO

P-6 ALL PAVING SHALL BE CONSTRUCTED ON A STRAIGHT LINE GRADE

DRAIN WITHOUT HOLDING WATER.

PAVED AREAS.

WIRE FABRIC SHALL CONFORM TO ASTM A185. ALL REINFORCING STEEL SPLICES, TEES AND CORNERS, FOR SITE CONSTRUCTION, SHALL BE

PAVING CONSTRUCTION NOTES:

STORM SEWER CONSTRUCTION NOTES:

ST-1 CONSTRUCTION IN STORM SEWER AND DRAINAGE EASEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH COUNTY REQUIREMENTS. ST-2 STORM SEWERS LOCATED WITHIN A PUBLIC EASEMENT OR R.O.W. SHALL BE REINFORCED CONCRETE PIPE, ASTM C76, CLASS III, WALL B. RAM-NEK SHALL BE PROPERLY INSTALLED AT EACH JOINT BASED ON THE COUNTY'S REQUIREMENTS. STORM SEWER TEN (10) INCHES IN DIAMETER OR SMALLER, NOT WITHIN EASEMENTS OR R.O.W.'S, SHALL BE PVC, ASTM D3034, TYPE PSM, SDR-26, WITH RUBBER GASKET JOINTS (ASTM D3213), INSTALLED IN ACCORDANCE WITH ASTM D2321. STORM SEWER TWELVE (12) INCHES IN DIAMETER OR LARGER, NOT WITHIN EASEMENTS OR R.O.W.'S, SHALL BE HIGH DENSITY POLYETHYLENE, SMOOTH BORE, CORRUGATED PIPE MEETING THE REQUIREMENTS OF AASHTO M294, TYPE S, WITH WATER-TIGHT JOINTS. IN ALL CASES, CHANGES IN PIPE SIZE OR

ST-3 STORM SEWER BEDDING AND BACKFILL ADJOINING INLETS AND MANHOLES SHALL BE CEMENT STABILIZED SAND IN ACCORDANCE WITH THE DETAILS.

ST-4 INLETS IN THE PAVED AREAS ARE TO BE PLACED ALIGNED WITH THE CENTERLINE OF DRIVING AISLES.

TYPE SHALL OCCUR AT AN APPROVED STRUCTURE.

ST-5 ROOF DRAIN COLLECTORS (RDC) SHALL BE PVC OR HDPE PIPE IN ACCORDANCE WITH THE NOTES. PROVIDE MANUFACTURED FITTINGS AND CONNECTIONS TO THE DOWNSPOUTS IN ACCORDANCE WITH THE ARCHITECT'S DETAIL. RDC PIPE GRADES SHALL BE 12"@0.45%, 8"@0.75% AND 6"@1.50%.

JOINTS. WHEN TWO DOWNSPOUTS CONNECT, STORM PIPE SHALL BE 10" HDPE (WT). WHEN 4 OR MORE DOWNSPOUTS CONNECT, STORM PIPE SHALL BE 12" HDPE (WT). IF SIZES ARE CALLED OUT ON THE PLANS THAT CONFLICT WITH THIS NOTE, THE LARGER SIZE PIPE SHALL BE USED.

ST-7 THE DESIGN ENGINEER SHALL INSPECT THE OPEN TRENCH AND MAY AUTHORIZE CHANGES IN THE BEDDING INDICATED ON THE PLANS.

ST-6 ALL DOWNSPOUT LEADS SHALL BE 6" HDPE WITH WATER TIGHT (WT)

SANITARY SEWER CONSTRUCTION NOTES:

S-1 SANITARY SEWER CONSTRUCTION AND TESTING SHALL BE IN ACCORDANCE WITH THE RULES AND REQUIREMENTS OF THE COUNTY AND THE MUD.

S-2 SANITARY SEWER PIPE SHALL BE PVC, ASTM D3034, TYPE PSM, SDR-26, WITH RUBBER GASKET JOINTS (ASTM D3213), INSTALLED IN ACCORDANCE WITH ASTM D2321. IF REQUIRED IN THE GEOTECHNICAL STUDY, SANITARY SEWER BEDDING AND BACKFILL WITHIN 10 FEET OF THE BUILDING SHALL BE CEMENT STABILIZED SAND OR STRUCTURAL FILL.

S-3 CONTRACTOR SHALL RECORD THE LOCATION OF ALL CLEANOUTS, STUBOUTS, ETC. S-4 SEPARATION DISTANCES FOR ALL SANITARY SEWER AND WATER MAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS, THE TEXAS NATURAL RESOURCES CONSERVATION COMMISSION "RULES AND REGULATIONS FOR DESIGN CRITERIA FOR SEWERAGE SYSTEMS" (LATEST PRINTING) AND THE COUNTY

S-5 ALL CLEANOUTS THAT ARE PLACED WITHIN PAVING OR SIDEWALK AREAS SHALL BE INSTALLED WITH A NON-SKID, TRAFFIC RATED, SEALED METAL COVER SET FLUSH WITH THE FINISHED PAVING ELEVATION.

S-6 CONTRACTOR TO INSTALL DOUBLE CLEAN OUTS AT THE SANITARY CONNECTIONS BETWEEN CIVIL AND M.E.P. PLANS, UNLESS INCLUDED IN M.E.P. PLANS.

WATER CONSTRUCTION NOTES:

W-1 WATER CONSTRUCTION NOTES SHALL APPLY TO THE ON-SITE, DOMESTIC AND FIRE SYSTEMS FROM FIVE FEET OUTSIDE THE BUILDING TO THE METER OR SERVICE CONNECTION. INSTALLATION OF ALL WATER CONNECTIONS AND METERS SHALL COMPLY WITH THE REQUIREMENTS OF THE COUNTY AND THE MUD.

W-2 ALL WATER LINE CONSTRUCTION AND TESTING SHALL CONFORM TO THE REQUIREMENTS OF THE COUNTY AND THE MUD.

W-3 ALL WATER LINES SHALL BE CONSTRUCTED WITH A MINIMUM CLEARANCE OF NINE FEET FROM ANY SANITARY SEWER. ALL WATER LINES SHALL BE CONSTRUCTED ABOVE SANITARY SEWERS AT ALL CROSSINGS. AN EIGHTEEN_FOOT LONG, CONTINUOUS JOINT OF WATER LINE SHALL BE CENTERED AT ALL CROSSINGS WITH SANITARY SEWERS.

W-4 SEPARATION DISTANCES FOR ALL WATER MAIN AND SANITARY SEWER MAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS, THE TEXAS NATURAL RESOURCES CONSERVATION COMMISSION "RULES AND REGULATIONS FOR DESIGN CRITERIA FOR SEWERAGE SYSTEMS" (LATEST PRINTING) AND THE REQUIREMENTS OF THE COUNTY, THE CITY AND THE MUD.

W-5 PRIVATE WATER LINES AND FITTINGS SHALL MEET OR EXCEED THE MINIMUM REQUIREMENTS OF AWWA C900, DR-18, CLASS 150. ALL FITTINGS SHALL BE CAST IRON WITH CEMENT MORTAR LINING MEETING THE REQUIREMENTS OF AWWA C153 AND C104. WATER LINES SMALLER THAN 4" SHALL COMPLY WITH THE REQUIREMENTS OF ASTM D2241, SDR 21, OR EQUAL, WITH RUBBER GASKET JOINTS. ALL WATER LINES SHALL HAVE A MINIMUM PRESSURE RATING OF 150

W-6 WATER LINE CONSTRUCTION SHALL INCLUDE BEDDING AND CONCRETE THRUST BLOCKING IN ACCORDANCE WITH THE DETAILS AND THE COUNTY, CITY AND MUD

W-7 ALL WATER AND FIRE LINES SHALL HAVE A MINIMUM COVER OF 4 FEET EXCEPT AS OTHERWISE APPROVED BY THE ENGINEER.

REPAIRED OR REGRADED ON COUNTY RIGHT-OF-WAY. FOR USE WITH CONCRETE OR ASPHALT CURB TYPE STREETS, USE SECTIONS APPLICABLE. A. USE FOR ALL PROPOSED EXISTING CURB REMOVAL FOR DRIVEWAYS (PLAN VIEW NOT TO SCALE) 20 - 40 DR VEWAY WIDTH ... 3/4° BOARD EXPANSION ROW LINE ROW.LINE F MIN. SIDEWALK MAX SLOPE 17/FT MIN SLOPE XMFT CUTTER LINE-SAW CUT AND EXPOSE 15" OF REINFORCING ---STEEL. (MIN. SAW CUT DEPT.(+2") COM STREET INTO PROPOSED NOTE: SIDEWALKS MUST COMPL WITH A.D.A. STANDARDS XISTING EXPANSION JOINT IN THE 3/4" BOARD EXPANS TREET AT THE PROPOSED DRIVEWAY * EXTENDING OF EXPANS OINT NOT REQUIRED FO 4" ROLL OVER CURB BUT B. USE FOR ALL PROPOSED DRIVES ON CURBED TYPE STREETS -3/4" BOARD EXPANSION -5. MAX SLOPE X 78 (2%)

WHEN A COMMERCIAL SIDEWALK, DRIVEWAY, CURB OR GUTTER IS CONSTRUCTED, RECONSTRUCTED,

VARIES 6'STD, SCORE JOINTS WINDS IN 7" (MIN) THICK REINF, CONC. 12" STÉEL OVERLAP ATCH THICKNESS ON MAJOR THOROUGHFARES (SEE GENERAL NOTE 2) NEW PAVEMEN EXISTING PAVEMENT COMPACT SUBGRADE TO 95% STD. PROCTOR DENSITY (SEE GENERAL NOTE I)

 Compact subgrade for proposed driveway connection from proposed saw cut at existing pavement to row. Line compact to 95% of Standard Proctor Density(4/- 2% opt. Moisture). The county engineer reserves the right to requi 2. PROPOSED DRIVEWAY REINFORCING STEEL IS TO BE #4 DEFORMED REINFORCING BARS (ASTM A615, GRADE 60, UNLESS NOTED) SPACED AT 24" C.C., EACH WAY, WITH IZ" MINIMUM LAP FROM PROPOSED SAW CUT TO ROW, LIP 3. Proposed driveway shall be constructed with portland cement (5 sacks (3000 psi) of cement per cubic yard of concrete), class "a" structural (refer to specifiction 0301), 7" thick, from proposed saw cut to row. Line 4. PROPOSED SIDEWALK SHALL BE CONSTRUCTED WITH PORTLAND CEMENT (5 SACKS (3600 FSI) OF CEMENT PER CUBIC YARD OF CONCRETE), CLASS "A" STRUCTURAL (REFER TO SPECIFICTION OSHI), 4" THICK. 5. FOR TYPICAL SIDEWALK DEATAIL SEE FBC-011.

SIDEWALKS & DRIVEWAYS ON DRAWN BY: L. BRDECKA REVISED BY: J. NETARDU DATE DRAWN: 2-1-94 DATE REVISED: 4-7-09 **CURB TYPE STREETS** APPROVED BY: L, HOOD DRAWING NO COMMERCIAL AREA DATE: 2-1-94

FORT BEND COUNTY ENGINEERING DEPARTMENT

GENERAL NOTES FOR SIDEWALKS AND DRIVEWAYS

1. SAW CUT EXISTING CURB AT EACH END AND KNOCK OUT CURB FROM BEGINNING TO END OF PROPOSED DRIVEWAY.

2. SAW CUT EXISTING PAVEMENT A MINIMUM OF 18" INCHES AWAY FROM BACK OF CURB (GUTTER LINE) AND BREAK OUT TO EXPOSE EXISTING REINFORCEMENT STEEL.

3. COMPACT SUBGRADE FOR PROPOSED DRIVEWAY CONNECTION FROM PROPOSED SAW CUT AT EXISTING PAVEMENT TO RIGHT-OF-WAY LINE, COMPACT TO 95% OF STANDARD PROCTER DENSITY (+/- 2% OPT. MOISTURE). THE COUNTY ENGINEER RESERVES THE RIGHT TO REQUIRE LABORATORY TESTS TO BE CONDUCTED.

4. PLACE AND COMPACT 4" CLEAN BANK SAND.

5. MAINTAIN GUTTER LINE WITH FACE OF EXISTING CURB.

6. PROPOSED DRIVEWAY REINFORCING STEEL IS TO BE TIED TO EXISTING ROADWAY REINFORCING STEEL WITH A MINIMUM LAP OF 12 INCHES.

PROPOSED DRIVEWAY REINFORCING STEEL IS TO BE #4 DEFORMED RE-INFORCING BARS (ASTM A615 GRADE 60, UNLESS" NOTED) SPACED AT 24 INCHES C.C., EACH WAY, WITH 12 INCHES MINIMUM LAP (6" x 6" W6 x W6 AS ALTERNATE) FROM PROPOSED SAW CUT TO RIGHT-OF-WAY

8. PROPOSED DRIVEWAY, CURB, GUTTER LINE, AND GRADE SHALL MATCH EXISTING STREET.

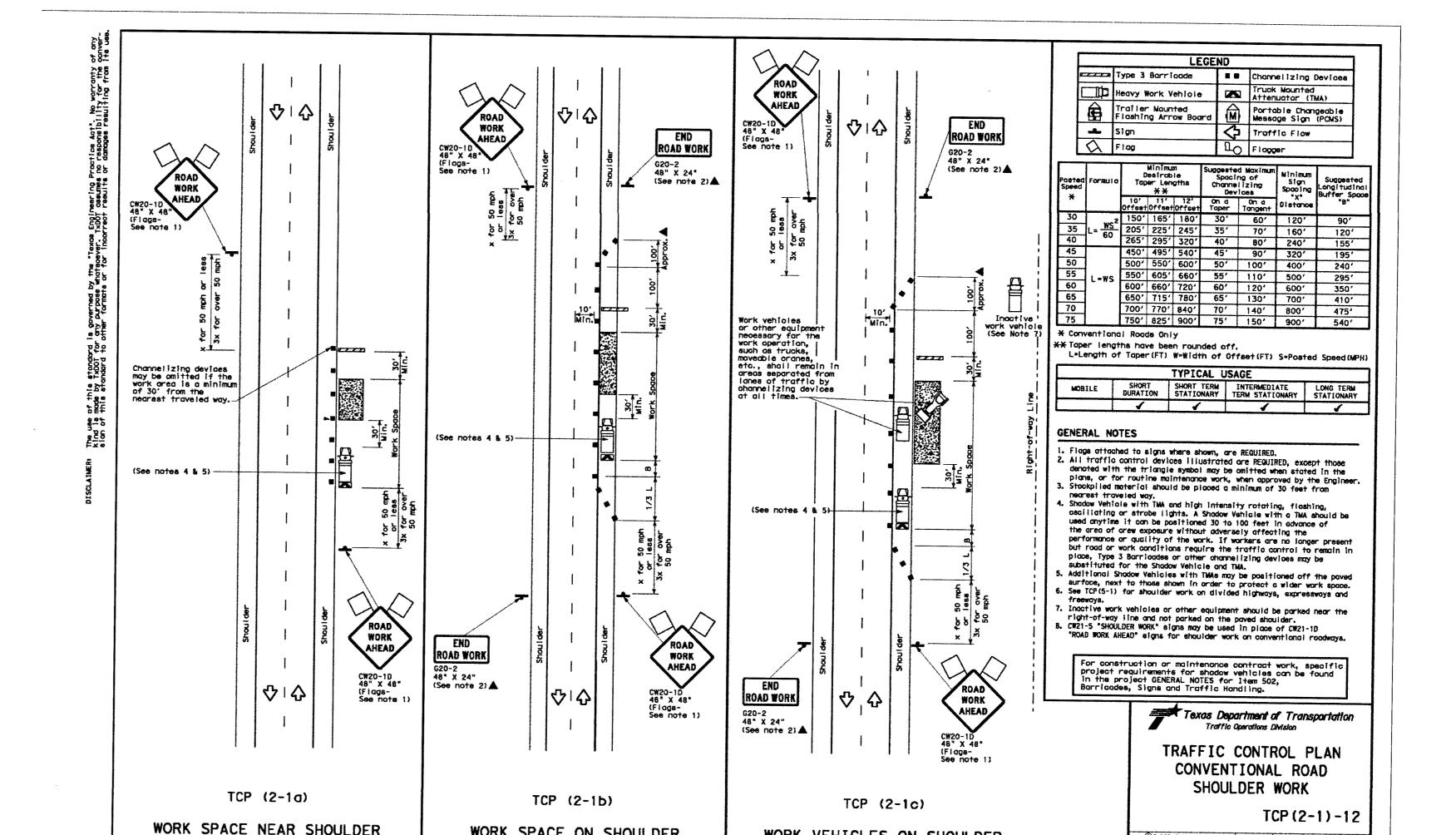
PROPOSED DRIVEWAY SHALL BE CONSTRUCTED WITH PORTLAND CEMENT CONCRETE, CLASS "A" STRUCTURAL (REFER TO SPECIFICATION 03301). 7 INCHES THICK, FROM PROPOSED SAW CUT TO RIGHT-OF-WAY LINE

 PROPOSED SIDEWALK SHALL BE CONSTRUCTED WITH PORTLAND CEMENT CONCRETE, CLASS "A" STRUCTURAL (REFER TO SPECIFICATION 03301), 4 INCHES THICK AND 4 FEET MINIMUM WIDTH. SEE DRAWING NO. FBC 24A FOR ADDITIONAL INFORMATION AND DETAILS.

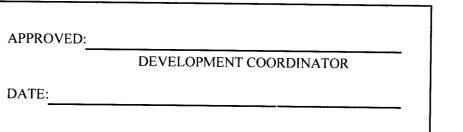
CONSTRUCTION NOTES FOR SIDEWALKS & DRIVEWAYS WITH **CURB TYPE STREETS COMMERCIAL AREA**

DRAWN BY: L. BRDECKA | REVISED BY: L. BRDECKA DATE DRAWN: 2-1-94 DATE REVISED: 3-10-05 APPROVED BY: L. HOOD DRAWING NO.

FORT BEND COUNTY ENGINEERING DEPARTMENT







WORK VEHICLES ON SHOULDER

Conventional Roads

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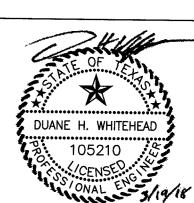
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January 17, 2018

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REVISIONS Revision No.

. ADDENDUM #3 2.12.1

Drawn By TJL STA Designer Quality Contro TSA STAFF

Proj. Arch.

PROJECT

1624.00 SHEET

CONSTRUCTION

NOTES & DETAILS

SHEET NO. C5.04

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