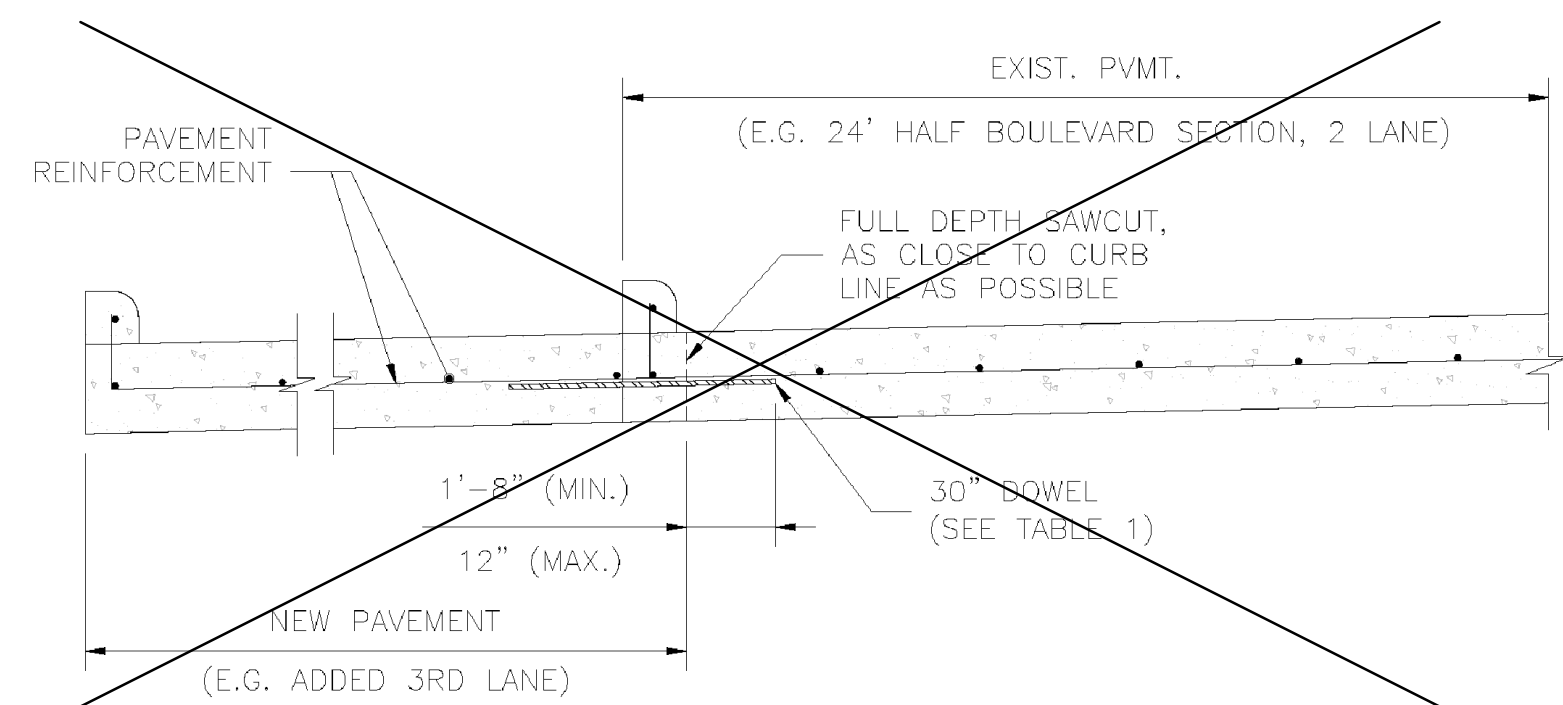


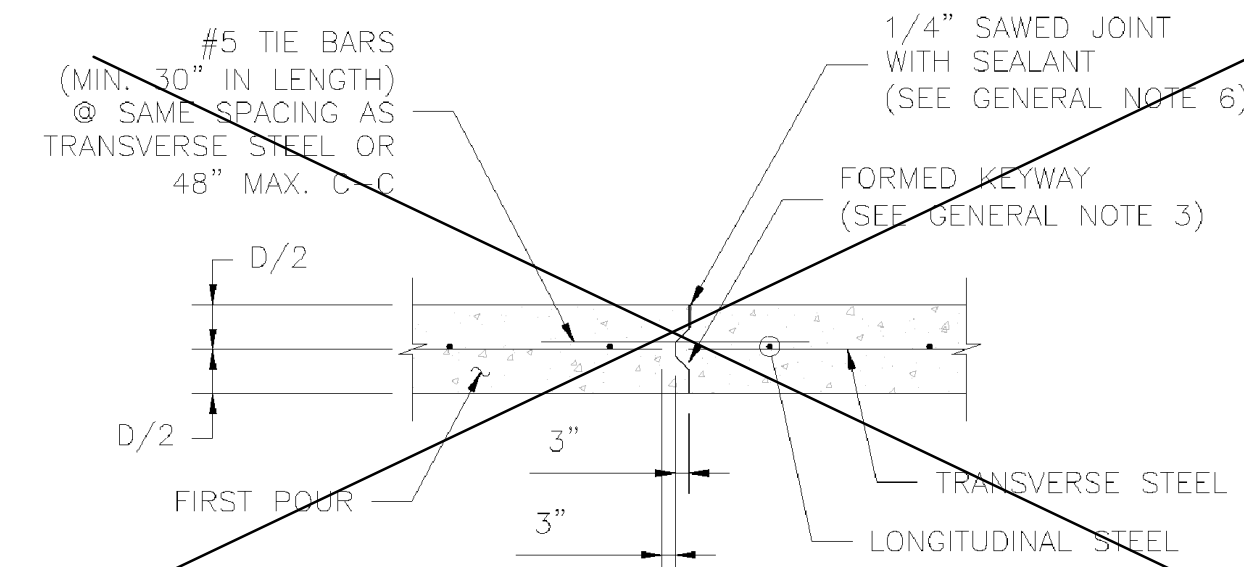
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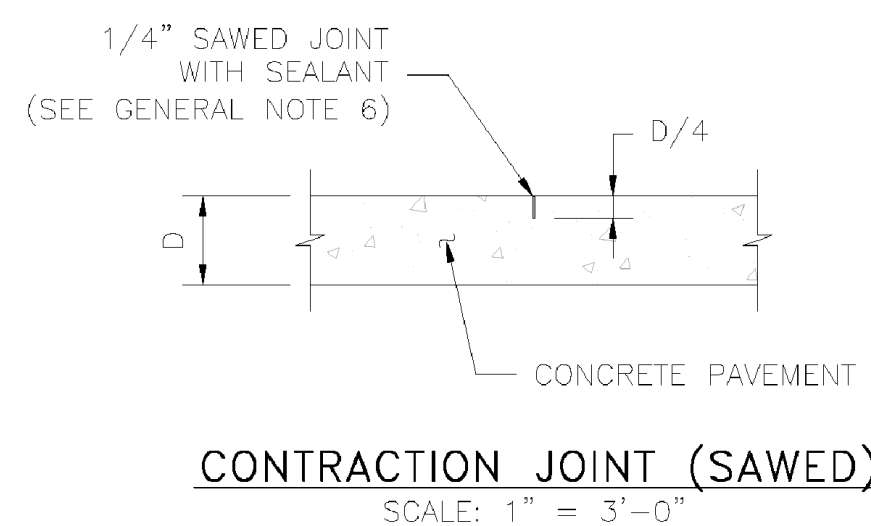
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TYPICAL CONCRETE ROADWAY WIDENING DETAIL
SCALE: 1" = 3'-0"

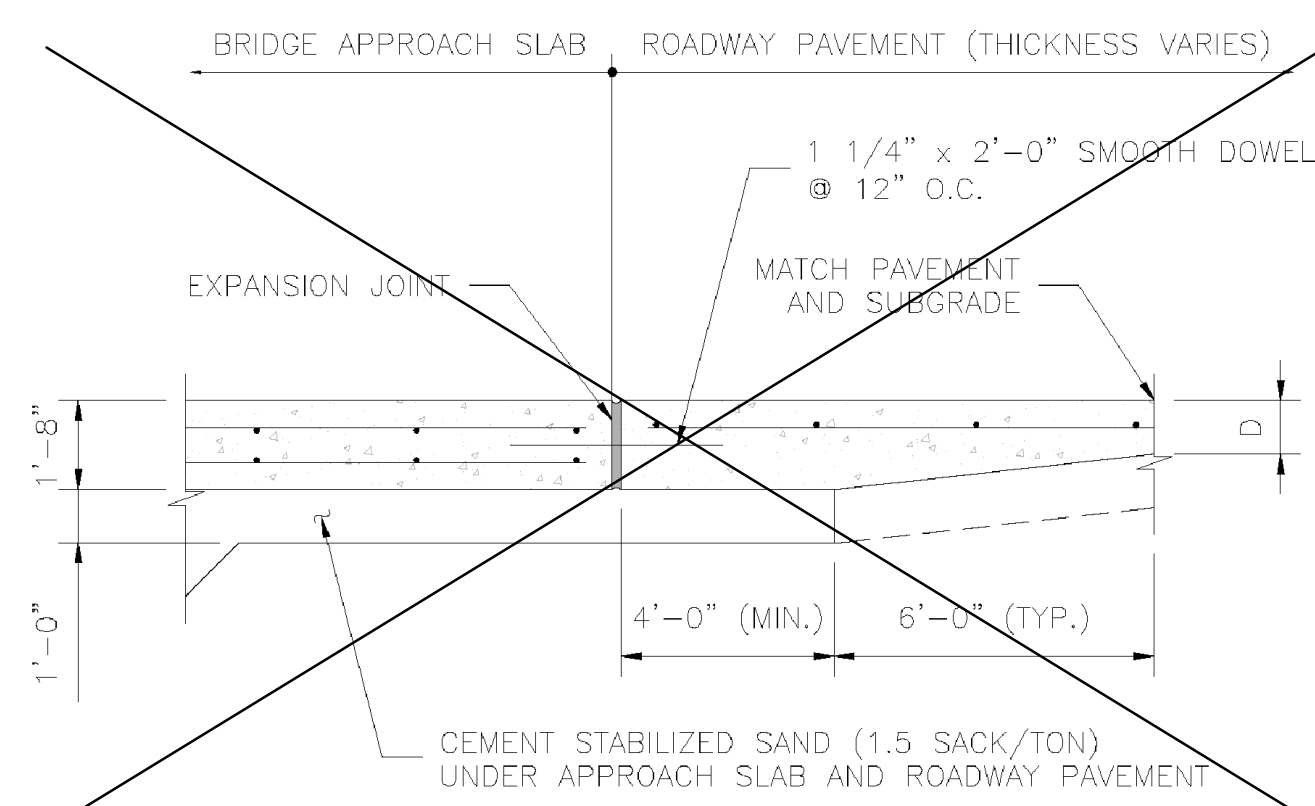


LONGITUDINAL CONSTRUCTION JOINT
SCALE: 1" = 3'-0"



CONTRACTION JOINT (SAWED)
SCALE: 1" = 3'-0"

NOTE FOR CONTRACTION JOINT:
1. 20'-0" MAXIMUM SPACING BETWEEN JOINTS.



TYPICAL SECTION PAVING TIE-IN TO BRIDGE APPROACH SLAB
SCALE: 1" = 3'-0"

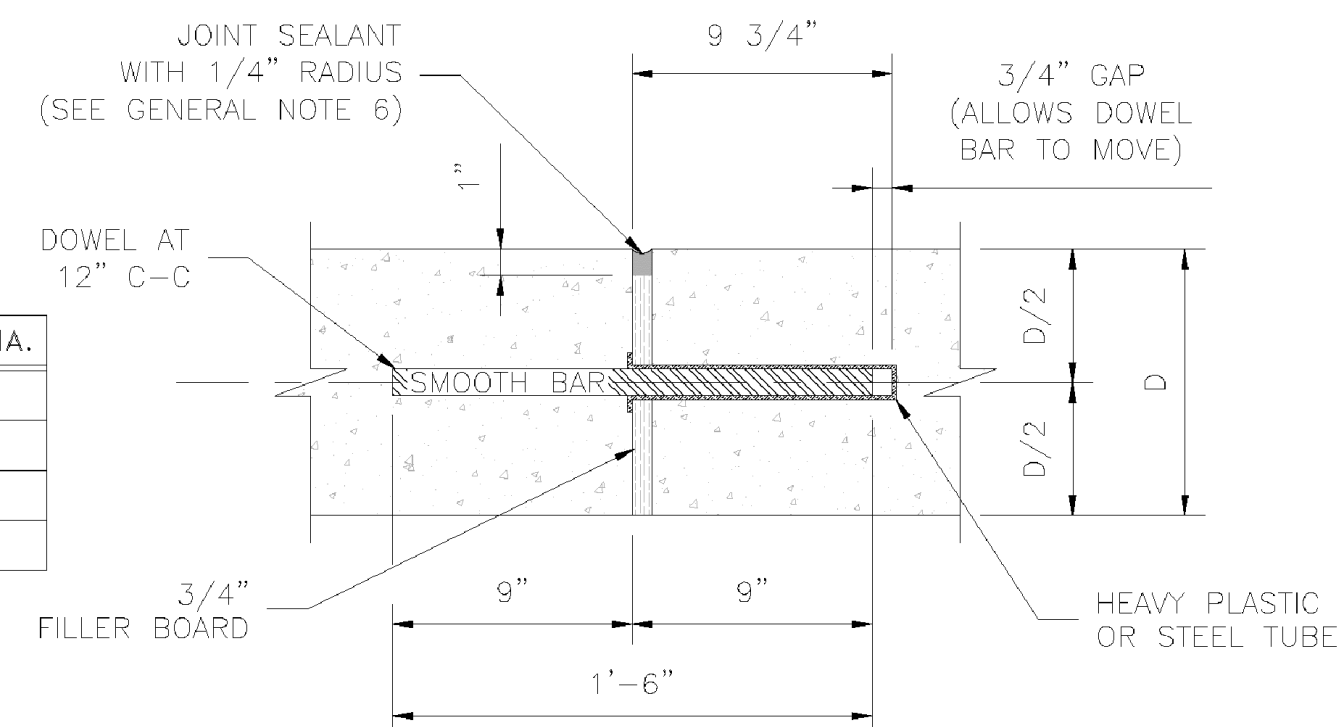
TABLE 1 (CONSTRUCTION JOINT DOWELS)

DOWEL SIZE	PAVEMENT DEPTH
#5 BAR	7"
#6 BAR	≥ 9"

DOWEL SHALL BE DRILLED INTO EXISTING PAVEMENT (MIN. 10", MAX. 12") AND EPOXIED. (SEE ITEM 361.3)

EXPANSION JOINT DOWELS

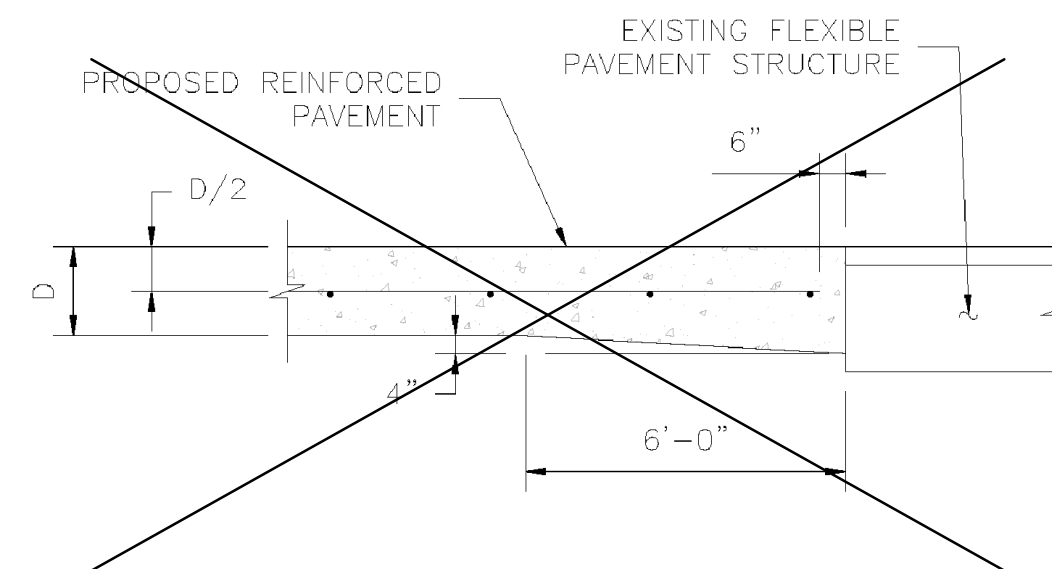
PAVEMENT THICKNESS (D)	DOWEL DIA.
6"	3/4"
7"	1"
8"	1"
9" & 10"	1 1/4"



DOWEL TYPE EXPANSION JOINT
SCALE: 1" = 6"

NOTES FOR DOWEL EXPANSION JOINT:

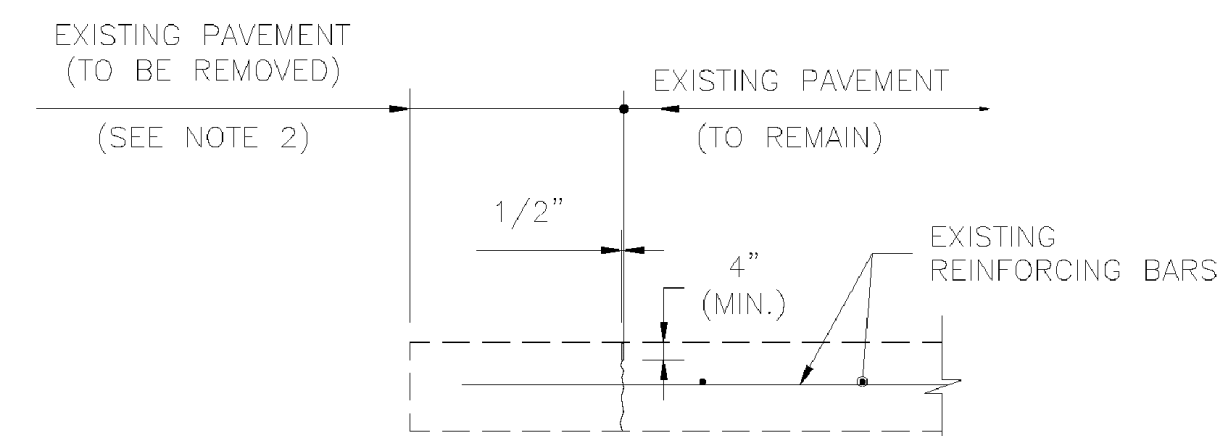
- EXPANSION JOINT SHALL BE PLACED AT THE END OF EACH CURB RADIUS AND SPACED AT A MAXIMUM DISTANCE OF 80 FEET.
- CENTER DOWEL HORIZONTALLY ON JOINT.
- EXPANSION JOINT BARS SHALL BE HELD PARALLEL TO THE FINISHED CONCRETE SURFACE.



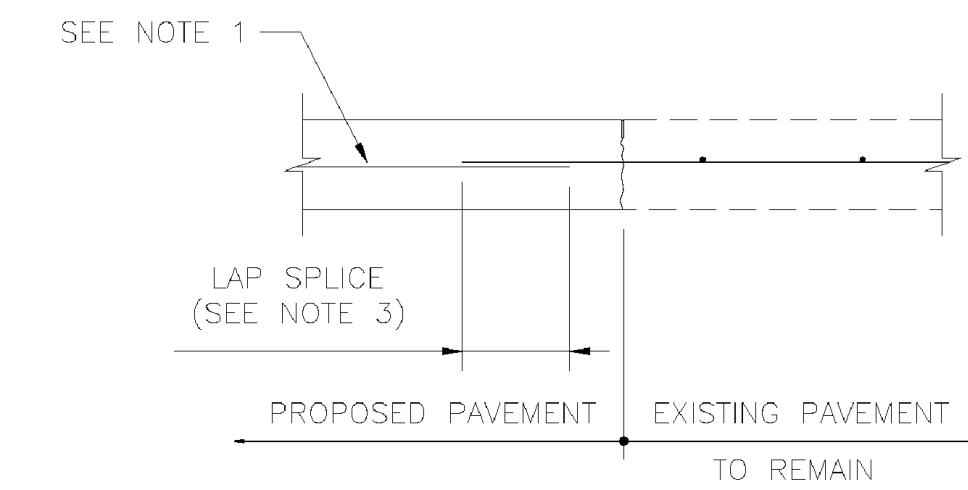
TYPICAL PAVING HEADER
SCALE: 1" = 3'-0"

NOTES FOR PAVING HEADER:

- ADDITIONAL CONCRETE FOR PAVING HEADER SHALL BE CONSIDERED INCIDENTAL TO VARIOUS PAVING BID ITEMS.
- DISTURBED MATERIAL IN THE FLEXIBLE PAVEMENT WILL BE BACKFILLED WITH ASPHALT CONCRETE PAVEMENT (ACP). THE ACP WILL BE CONSIDERED INCIDENTAL TO VARIOUS PAVING BID ITEMS.



STEP 1 DEMOLITION OF EXISTING PAVEMENT



STEP 2 CONSTRUCTION OF NEW PAVEMENT

CONCRETE TO CONCRETE STANDARD PAVEMENT TIE-IN
SCALE: 1" = 3'-0"

NOTES FOR STANDARD PAVEMENT TIE-IN:

- REINFORCING CENTERED IN PROPOSED PAVEMENT, 3" CLEAR AT EDGES.
- SAWCUT 2" DEEP MINIMUM AND REMOVE 2'-0" EXISTING PAVEMENT OR PAVEMENT WITH CURB. EXPOSE AND CLEAN EXISTING REINFORCING.
- 24 BAR DIAMETER LAP SPLICE OR WELD, IF DIRECTED.
- IF NO EXPOSED REINFORCING STEEL EXISTS, HORIZONTAL DOWELS SHALL BE GRADE 60, 30" LONG DRILLED AND EMBEDDED 15" INTO THE CENTER OF THE EXISTING CONCRETE SLAB WITH EPOXY OR APPROVED EQUAL. SIZE OF DOWEL BARS SHALL CONFORM TO TABLE 1. DOWELS SHALL BE PLACED 24" CENTER TO CENTER.
- ALTERNATIVELY, THE CONTRACTOR MAY CHOOSE TO USE FULL DEPTH SAWCUT WITH DRILLED IN DOWELS (AS SHOWN IN THE "TYPICAL CONCRETE ROADWAY WIDENING DETAIL" ON THIS SHEET. IF THE CONTRACTOR SO CHOOSES, THE SAWCUTTING AND DOWELS WILL BE AT HIS OWN EXPENSE (THESE ITEMS WILL ONLY BE PAID FOR IF THE COUNTY REQUIRES THE FULL DEPTH SAWCUT AND DOWELS).

GENERAL NOTES:

- FOR FURTHER INFORMATION REGARDING THE PLACEMENT OF CONCRETE AND REINFORCING, REFER TO THE GOVERNING SPECIFICATION ITEM 360 "CONCRETE PAVEMENT".
- THE CHAIRS USED TO SUPPORT THE BAR MATS SHALL BE OF SUFFICIENT STRUCTURAL QUALITY AND NUMBER TO HOLD THE MAT WITHIN THE PLACEMENT HEIGHT, AND SHALL BE OF A TYPE APPROVED BY THE ENGINEER. SPACING OF BAR SUPPORT CHAIRS SHALL BE 3'-0" MAXIMUM.
- SAWED CONTRACTION JOINTS SHALL BE USED FOR LONGITUDINAL JOINTS WHEREVER MORE THAN ONE LANE WIDTH IS PLACED IN A SINGLE POUR. KEYPED CONSTRUCTION JOINTS SHALL BE USED AT ALL OTHER JOINTS.
- ALL SAW CUTTING SHOWN ON THIS DETAIL SHALL BE INCIDENTAL TO ITEM 360 "CONCRETE PAVEMENT".
- D = THICKNESS OF CONCRETE PAVEMENT.
 - FOR DEVELOPMENT PROJECTS SEE "REGULATIONS OF HARRIS COUNTY, TEXAS FOR THE APPROVAL AND ACCEPTANCE OF INFRASTRUCTURE."
 - FOR PUBLIC PROJECTS SEE HCD 1988 DESIGN GUIDELINES.
- JOINT SEALANT SHALL CONFORM TO THE REQUIREMENTS OF ITEM 360 "CONCRETE PAVEMENT".

PROJECT:

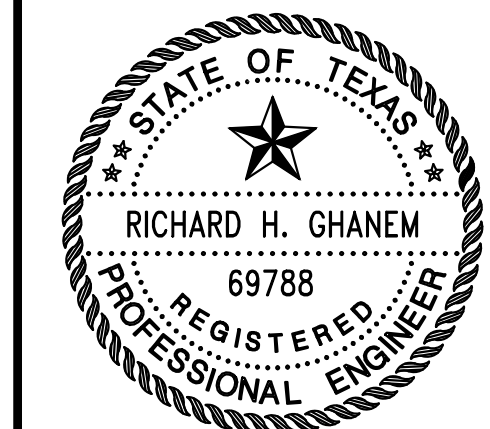
Proposed Pavement Replacement
Christ the Good Shepherd
18511 Klein Church Road
Spring, Texas 77379

OWNER:

Christ the Good Shepherd
Archdiocese of Galveston-Houston
18511 Klein Church Road
Spring, Texas 77379
Rev. James Burkart, Pastor

ENGINEER:

Engineering & Facilities Consulting, Inc.
Firm Registration No. F-003940
8203 Willow Place Dr. South, Suite 405 - Houston, TX 77070
Ph: 281-894-2001; Fax: 281-894-2004
Contact: Richard H. Ghanem, PE, President
e-Mail: rghanem@efctx.com - Website: www.efctx.com



10/22/17

Richard Ghanem

NO.	REVISIONS	DATE	NAME

**CONCRETE PAVEMENT DETAILS
PRECINCT 1, 2 & 4 (1 OF 2)**

SURVEYOR: SCALE: N.T.S. DATE: 10/22/17 EFC PN: CIV-389-15
DESIGNED BY: LG DRAWN BY: LG CHECKED BY: RHG SHEET NO: C25 OF 38

HARRIS COUNTY
ENGINEERING DEPARTMENT



PROJECT TITLE:		CIVIL STANDARD
SHEET DESCRIPTION:		CP-124
DRAWN BY: JDZ	PRECINCT 1, 2 & 4 (1 OF 2)	DATE: 8/14/17
CR'D BY: PDG	SCALE: AS NOTED	SHEET NO: /