





**REVIEW BY FORT BEND COUNTY**  
**COMMISSIONERS COURT**

**Fort Bend County**  
**Engineering Department**

301 Jackson Suite 401  
Richmond, Texas 77469  
281.633.7500

[Permits@fortbendcountytx.gov](mailto:Permits@fortbendcountytx.gov)

☐

**Right of Way Permit**

☒

**Commercial Driveway Permit**

Permit No: 2022-51508

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:**

☒

a. Name of road, street, and/or drainage ditch affected.

☒

b. Vicinity map showing course of directions

☒

c. Plans and specifications

**(2) BOND:**

☐

County Attorney, approval when applicable.

☒

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

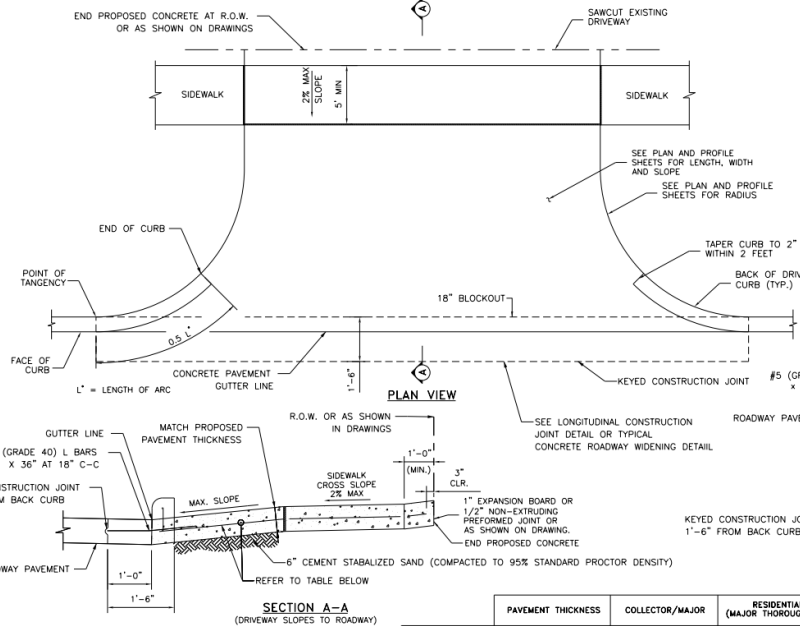
**We have reviewed this project and agree it meets minimum requirements.**

Permit Administrator

2/15/2022

Date

J:\1704\1804\Fort Bend County Standard\Fort Bend County Standard\CONSTRUCTION\DRIVEWAY DETAILS FOR MAJOR ROADWAY CONSTRUCTION.dwg

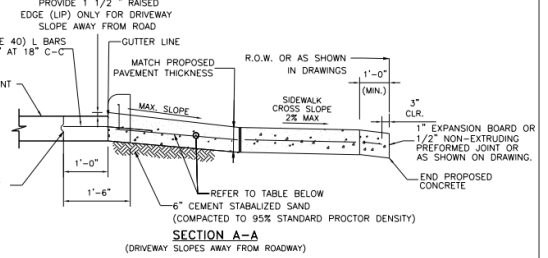


#### NOTES:

1. SAWCUT EXISTING DRIVEWAY AT R.O.W. LINE OR AS SHOWN ON DRAWING AND REMOVE EXISTING DRIVEWAY TO SAWCUT LINE.
2. IF THERE IS EXISTING CURB ON DRIVEWAY, CONNECT PROPOSED CURB TO EXISTING CURB OTHERWISE TAPER CURB HEIGHT AS SHOWN.
3. SEE PAVEMENT DETAIL SHEET FOR CONCRETE CURB REINFORCEMENT.
4. THIS DRIVEWAY INSTALLATION IS GOVERNED BY HARRIS COUNTY ITEM 360.

#### MINIMUM RADII REQUIREMENTS - DRIVEWAYS

|             | LOCAL | COLLECTOR/MAJOR |
|-------------|-------|-----------------|
| RESIDENTIAL | 5'    | -               |
| COMMERCIAL  | 10'   | 25'             |



|                          | PAVEMENT THICKNESS | COLLECTOR/MAJOR           | RESIDENTIAL (MAJOR THOROUGHFARE) | RESIDENTIAL (COLLECTORS AND LOCAL STREETS) |
|--------------------------|--------------------|---------------------------|----------------------------------|--------------------------------------------|
| REINFORCEMENT            | 6"                 | #4 @ 24" O.C.E.W.         | N/A                              | #4 @ 24" O.C.E.W.                          |
|                          | 7"                 | #4 @ 24" O.C.E.W.         | #4 @ 24" O.C.E.W.                | #4 @ 24" O.C.E.W.                          |
|                          | 8"                 | #4 @ 18" O.C.E.W.         | #4 @ 18" O.C.E.W.                | #4 @ 18" O.C.E.W.                          |
|                          | 9"-10"             | #5 @ 18" O.C.E.W.         | #5 @ 18" O.C.E.W.                | #5 @ 18" O.C.E.W.                          |
| EXPANSION DOWEL JOINT    | 6"                 | 3/4" DIA. SMOOTH BAR      | 3/4" DIA. SMOOTH BAR             | 3/4" DIA. SMOOTH BAR                       |
|                          | 7"                 | 1" DIA. SMOOTH BAR        | 1" DIA. SMOOTH BAR               | 1" DIA. SMOOTH BAR                         |
|                          | 8"                 | 1" DIA. SMOOTH BAR        | 1" DIA. SMOOTH BAR               | 1" DIA. SMOOTH BAR                         |
|                          | 9"-10"             | 1 1/2" DIA. SMOOTH BAR    | 1 1/2" DIA. SMOOTH BAR           | 1 1/2" DIA. SMOOTH BAR                     |
| CONSTRUCTION JOINT DOWEL | ALL                | #5 REBAR                  | #5 REBAR                         | #5 REBAR                                   |
| SUBGRADE                 | ALL                | 6" CEMENT-STABILIZED SAND | 2" BANK SAND                     | 2" BANK SAND                               |
| RUNNING SLOPE            | ALL                | 2% TO 4%                  | 2% TO 6%                         | 2% TO 10%*                                 |

\*10% ALLOWABLE ON PRIVATELY CONSTRUCTED PROJECTS  
6% MAX ON PUBLIC PROJECTS

| NO. | REVISIONS                | DATE   | NAME |
|-----|--------------------------|--------|------|
| 1   | ORIGINAL STANDARD ISSUED | 2-1-21 | RWB  |

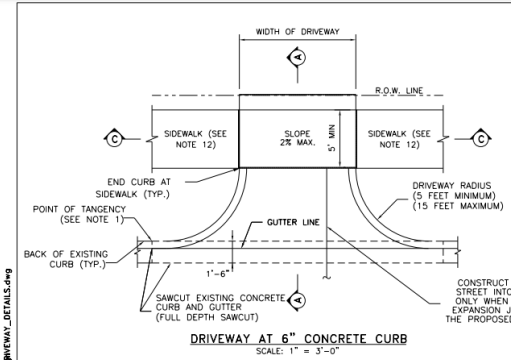
FORT BEND COUNTY  
ENGINEERING DEPARTMENT



CONSULTANT LOGO  
(LAYER "C-NON-PRINT")

FOR INTERIM REVIEW ONLY  
DOCUMENT INCOMPLETE:  
NOT APPROVED FOR CONSTRUCTION.  
(LAYER "C-NON-PRINT")  
P.E. SERIAL NO.  
DATE:

| PROJECT TITLE: | FRCD STANDARD |
|----------------|---------------|
| DRAWN BY:      |               |
| CHECKED BY:    |               |
| SCALE:         |               |
| DATE:          |               |



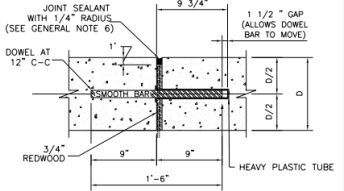
CONSTRUCT EXPANSION JOINT FROM STREET INTO PROPOSED DRIVEWAY. ONLY WHEN THERE IS AN EXISTING EXPANSION JOINT IN THE STREET AT THE PROPOSED DRIVEWAY INTERSECTION.

DRIVEWAY AT 4"x12" CONCRETE CURB  
(IN RESIDENTIAL AREAS)  
SCALE: 1" = 3'-0"

DRIVEWAY AT 4"x12" CONCRETE CURB  
(IN RESIDENTIAL AREAS)  
SCALE: 1" = 3'-0"

#### NOTES:

1. PROPOSED DRIVEWAY AT 6" CONCRETE CURB SHALL MATCH EXISTING CURB AT POINT OF TANGENCY.
2. PROPOSED DRIVEWAY SHALL BE BUILT WITH PORTLAND CEMENT CONCRETE, 5 1/2" SACK MINIMUM PER CUBIC YARD, 3,500 PSI STRENGTH AT 28 DAYS. THIS DRIVEWAY INSTALLATION IS GOVERNED BY HARRIS COUNTY ITEM 360.
3. COMPACTION OF SUBGRADE TO 95% OF STANDARD PROCTOR DENSITY (ASTM D698) (A 2% OPTIMUM MOISTURE) FOR PROPOSED DRIVEWAY CONNECTION. THE COUNTY ENGINEER RESERVES THE RIGHT TO INSPECT AND REQUIRE LABORATORY TEST TO BE CONDUCTED.
4. FOR COMMERCIAL DRIVEWAYS, USE 6" OF COMPACTED CEMENT STABILIZED SAND. FOR RESIDENTIAL DRIVEWAYS, USE 2" OF COMPACTED BANK SAND.
5. A PROPOSED DRIVEWAY TO BE BUILT ON A CORNER LOT CANNOT BE LOCATED WITHIN ANY PORTION OF THE PUBLIC STREET CURB RADIUS. THE POINTS OF TANGENCY MAY BE THE SAME POINT ALONG THE STREET CURB LINE.
6. PROPOSED DRIVEWAY REINFORCING STEEL SHALL BE TIED TO EXISTING CONCRETE PAVEMENT WITH A MINIMUM LAP OF 16 INCHES.
7. IF EXISTING STREET REBAR IS CUT OFF, THEN #4 DOWEL BARS (18" LONG) NEED TO BE INSTALLED AT 24" SPACING, EMBEDDED 9 INCHES AND EPOXYED OR MATCH EXISTING SPACING IF TIGHTER.
8. 3" NON-METALLIC CHAIRS ARE REQUIRED.
9. FOR CAPITAL IMPROVEMENT PROJECTS, THE SUBGRADE SHALL BE STABILIZED ACCORDING TO THE GEOTECHNICAL REPORT RECOMMENDATIONS.
10. SAW AND SEAL ALL CONSTRUCTION JOINTS.
11. SIDEWALK SLOPES SHALL COMPLY WITH THE TEXAS ACCESSIBILITY STANDARDS 403.3 "SLOPE".
12. IF SIDEWALK IS EXISTING, SEE SECTION C-C.
13. SIDEWALKS MAY BE REDUCED TO 4" IN FRONT OF SINGLE-FAMILY RESIDENTIAL LOTS WHEN A 5' PASSING AREA IS PROVIDED IN THE DRIVEWAY.
14. FOR SIDEWALK DETAILS SEE SIDEWALK DETAILS SHEET



DOWEL TYPE EXPANSION JOINT  
SCALE: 1" = 12"

|                          | PAVEMENT THICKNESS | COLLECTOR/MAJOR           | RESIDENTIAL (MAJOR THOROUGHFARE) | RESIDENTIAL (COLLECTORS AND LOCAL STREETS) |
|--------------------------|--------------------|---------------------------|----------------------------------|--------------------------------------------|
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|                          | 7"                 | #4 @ 24" O.C.E.W.         | #4 @ 24" O.C.E.W.                | #4 @ 24" O.C.E.W.                          |
|                          | 8"                 | #4 @ 18" O.C.E.W.         | #4 @ 18" O.C.E.W.                | #4 @ 18" O.C.E.W.                          |
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|                          | 9"-10"             | 1 1/2" DIA. SMOOTH BAR    | 1 1/2" DIA. SMOOTH BAR           | 1 1/2" DIA. SMOOTH BAR                     |
| CONSTRUCTION JOINT DOWEL | ALL                | #5 REBAR                  | #5 REBAR                         | #5 REBAR                                   |
| SUBGRADE                 | ALL                | 6" CEMENT-STABILIZED SAND | 2" BANK SAND                     | 2" BANK SAND                               |
| RUNNING SLOPE            | ALL                | 2% TO 4%                  | 2% TO 6%                         | 2% TO 10%*                                 |

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| 1   | ORIGINAL STANDARD ISSUED | 2-1-21 | RWB  |

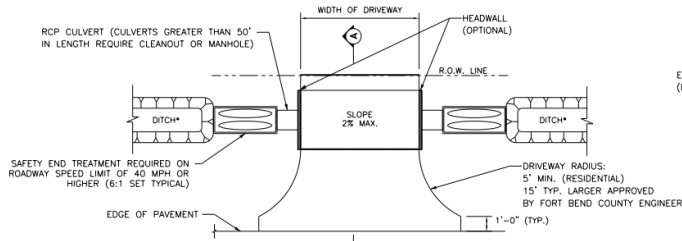
FORT BEND COUNTY  
ENGINEERING DEPARTMENT



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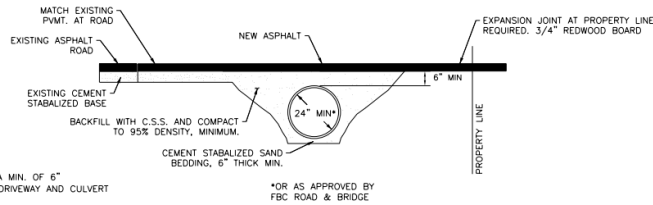
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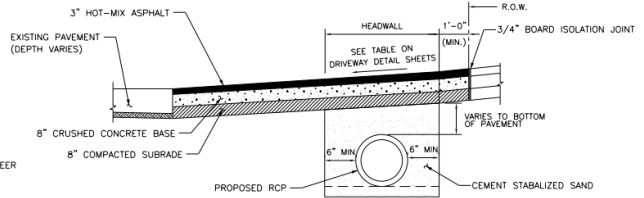


OPEN DITCH DRIVEWAY  
\*DITCH IS TO HAVE 4:1 SLOPE

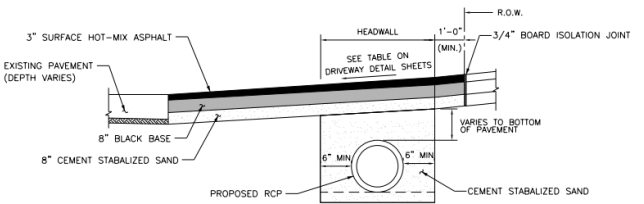
|             | MINIMUM RADIUS REQUIREMENTS - DRIVEWAYS |                 |
|-------------|-----------------------------------------|-----------------|
|             | LOCAL                                   | COLLECTOR/MAJOR |
| RESIDENTIAL | 5'                                      | -               |
| COMMERCIAL  | 10'                                     | 25'             |



ASPHALT APRON DETAIL - DRIVEWAY PROFILE  
FOR CULVERT DRAINAGE



SECTION A-A FOR RESIDENTIAL DRIVEWAYS



SECTION A-A FOR COMMERCIAL DRIVEWAYS

| NO. | REVISIONS                | DATE   | NAME |
|-----|--------------------------|--------|------|
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| 2   |                          |        |      |
| 3   |                          |        |      |
| 4   |                          |        |      |
| 5   |                          |        |      |

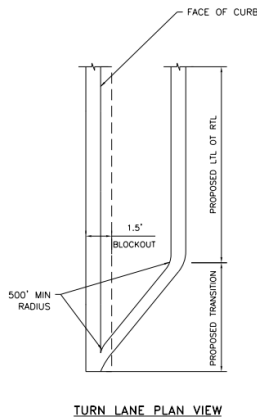
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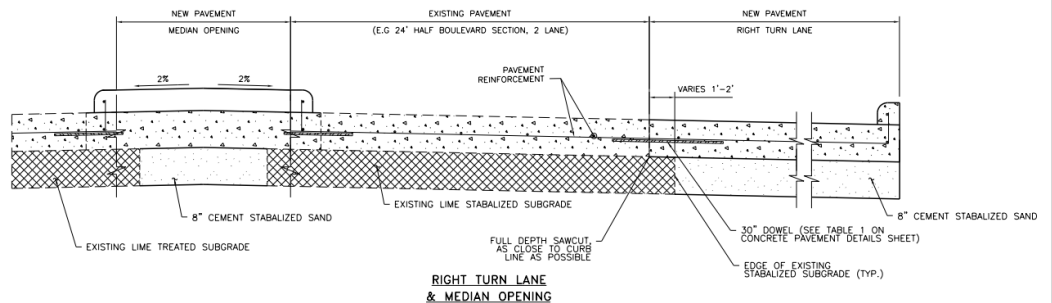
CONSULTANT LOGO  
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BENDING REINFORCING BARS  
(LAYER "C-NON-PRINT")  
P.E. SERIAL No.  
DATE:

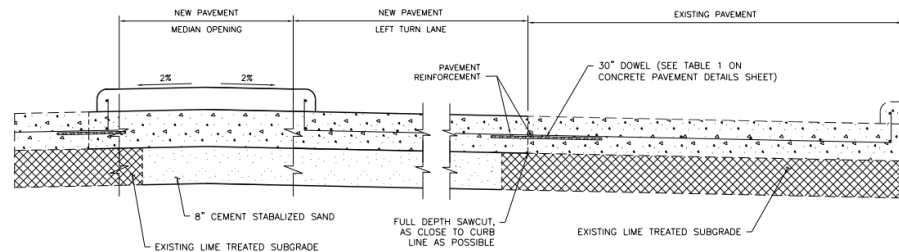
| PROJECT TITLE:           | DRAWN BY: | CHECKED BY: | DATE:  | APPROVED BY: | PROJECT NO. |
|--------------------------|-----------|-------------|--------|--------------|-------------|
| ASPHALT DRIVEWAY DETAILS | INIT      | INIT        | 2-1-21 |              |             |
|                          |           |             |        |              |             |
|                          |           |             |        |              |             |
|                          |           |             |        |              |             |
|                          |           |             |        |              |             |



TURN LANE PLAN VIEW



RIGHT TURN LANE  
& MEDIAN OPENING



LEFT TURN LANE  
& MEDIAN OPENING

- NOTES
- FOR CONCRETE PAVEMENT REINFORCEMENT AND JOINT DETAILS, SEE CONCRETE PAVEMENT DETAILS SHEET

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| 2   |                          |        |      |
| 3   |                          |        |      |
| 4   |                          |        |      |
| 5   |                          |        |      |

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DATE:

| PROJECT TITLE:                    | DRAWN BY: | CHECKED BY: | DATE:  | APPROVED BY: | PROJECT NO. |
|-----------------------------------|-----------|-------------|--------|--------------|-------------|
| TURN LANE & MEDIAN OPENING DETAIL | INIT      | INIT        | 2-1-21 |              |             |
|                                   |           |             |        |              |             |
|                                   |           |             |        |              |             |
|                                   |           |             |        |              |             |
|                                   |           |             |        |              |             |

