

DEWARALION JOINTS WILL BE USED EXCEPT AT STRUCTURE ENDS OR FIXED OBJECTS AS SHOWN ELSEMBERE IN THE PLANS.

DETAILS AS TO PAREMENT THICKNESS FOR CONCENT HICKNESS AND THE CROWN CROSS SLOPE SHALL BE AS SHOWN ELSEMBERE IN THE PLANS.

CHERALLY, PAVEMENT THICKNESS FOR CONCETTONS AND RAMPS SHALL BE THE SAME AS THE FREEWAY, EXCEPT THAT A TRANSITION IN THICKNESS SHALL BE MADE TO MEET THE FRONTAGE STREET AS DIRECTED BY THE ENGINEER, REINFORCING STEEL THRO THE TRANSITION IN THICKNESS SHALL BE THE SAME AS IN HE THICKNESS. THE CONTRACTOR MAY PLACE THE ENGINEER, REINFORCING STEEL THRO THE TRANSITION IN THICKNESS SHALL BE THE SAME AS IN HE THICKNESS. IN WIDENED AREAS SHALL BE THE SAME AS IN HE THICKNESS THE CONTRACTOR MAY PLACE THE ENGINEER, THE CONTRACTOR MAY PLACE THE ENGINEER THE CONTRACTOR MAY PLACE THE ENGINEER THAT AND THE EMPHOYEN AREAS SHALL BE THE SAME AS IN HE THICKNESS. IN WIDENED AREAS SHALL BE USED A TALL INTERNEDIATE LAME LINES. IN WIDENED AREAS SAMED JOINTS SHALL BE PLACED AS DIRECTED BY THE EMPINEER. LONGITUDINAL CONSTRUCTION AND/OR SURED. DIRECTED BY THE EMPINEER. LONGITUDINAL CONSTRUCTION AND/OR SURED. DIRECTED BY THE EMPINEER. LONGITUDINAL SHALL BE ENCINEER. AND AS SAMED JOINTS SHALL BE PLACED AS DIRECTED BY THE EMPINEER.

1. LONGITUDINAL CONSTRUCT ON ARGE TO THE PAVEMENT AND BEFORE Z4 HOURS AFTEN THE CONCRETE HAS BEEN PLACED. THE EXACT TIME IS TO BE APPROVED BY THE ENGINEER.

2. WITHIN ANY AREA BONDEOF BY O.640 ON OF PAVEMENT LENGTH MEASURED PLACED AT THE LONGITUDINAL BARS IN SINGLE MAT PLACEMENT WIDTH MEASURED BY THE ENGINEER.

3. WITHIN ANY AREA BONDEOF BY O.640 ON OF PAVEMENT ENERGLINE, MOT OVER 33% OF THE LONGITUDINAL BARS IN SINGLE MAT PLACEMENT SHALL BE PLACED AT THE LONGITUDINAL BARS IN DOUBLE MAT PLACEMENT SHALL BE PLACED AT THE LONGITUDINAL BARS IN DOUBLE MAT PLACEMENT SHALL BE PLACED. WITH A TOLERANCE OF 13 MON.

3. THE LONGITUDINAL BARS IN DOUBLE MAT PLACEMENT SHALL BE PLACED.

4. LONGITUDINAL BARS IN DOUBLE MAT PLACEMENT SHALL BE PLACED.

5. THE CONCRETE SHALL BE A MINIMAL OF 33 TIMES THE MAINI

1. SPLICES SHALL BE A MINIMAN OF 33 TIMES THE NOMINAL STEEL DIAMETER ("D")

8. THE CHAIRS USED TO SUPPORT THE DAR MAT SHALL BE OF SUPFICIENT FOR THE CHAIRS WISED TO SUPPORT THE DAR MAT SHALL BE OF SUPFICIENT FOR THE CHAIRS WILL BE OF SUPFICIENT SHALL BE OF SUPFICIENT SHALL BE OF SUPFICIENT SHALL BE OF A TIPE APPROVED DY THE CHAIRS WILL DATE EXCEPT FAS AND SHALL BE OF A TIPE APPROVED DY THE CHAIRS WILL AND TEXCED FOR THE THE THANSPERSE WO 7.19 mm IN THE CHAIRS WILL BOT EXCEPT FAS AND SHALL BE OF A TIPE APPROVED SO WAIT CHAIRS WILL AND TEXCED FOR THE THE THANSPERSE STEEL MAY BE PLACED ET FURCH ADDRESS WERN MOCHINE PLACED BY THE CHAIRS WILL HOT BE REQUIRED.

WHEN HIS TOUGHE STREAM OF 12.19 mO ETHER SIDE OF THE JOINT.

BE INFORTING. CHAIRS WILL HOT BE REQUIRED.

AT TRANSPERSE CONSTRUCTION JOINTS THE REQUIRE UNCOLLED WAIT.

THE WIDHAS OCCUR. OTHER THAN THE TRANSPERSE CONSTRUCTION JOINTS. THE REQUIRE DOOR.

WHEN HIS OF CONCERTE WITH HAND-MAINPULATED MECHANICAL VIBRATORS WILL BE REQUIRED ADJACENT TO ALL TRANSPERSE CONSTRUCTION JOINTS.

AT TRANSPERSE CONSTRUCTION JOINTS THE REQUIRE OF THE JOINT.

TO VIBRATION OF CONCERTE WITH HAND-MAINPULATED MECHANICAL VIBRATORS WILL BE REQUIRED ADJACENT TO ALL TRANSPERSE CONSTRUCTION JOINTS. THE WALTIPLE FIRE THE BAPPOPRE HAN THE TYPICE THE MOLTHS SHOWN.

AT THE SHORT HAS SHOWN ON SHEET I OF 2.

THE WIDHAS OCCUR. OTHER THAN THE TYPICE PORTE DAYS MALL BE RECOVED TO GRAIN HER APPROVANT HE WITHS SHOWN.

THE LEBROORE PRICE THE BARS OF THE STREET FIRE WALTIPLE PIECE DONE.

THE WALTIPLE PIECE THE BARS OF THE STREET FIRE WALTIPLE FIRE STREAM THE CONFIDENCE OF THE CONFIDENCE OF THE TRANSPERSE BARS SHILL DONE THE MAILTIPLE PIECE DONE.

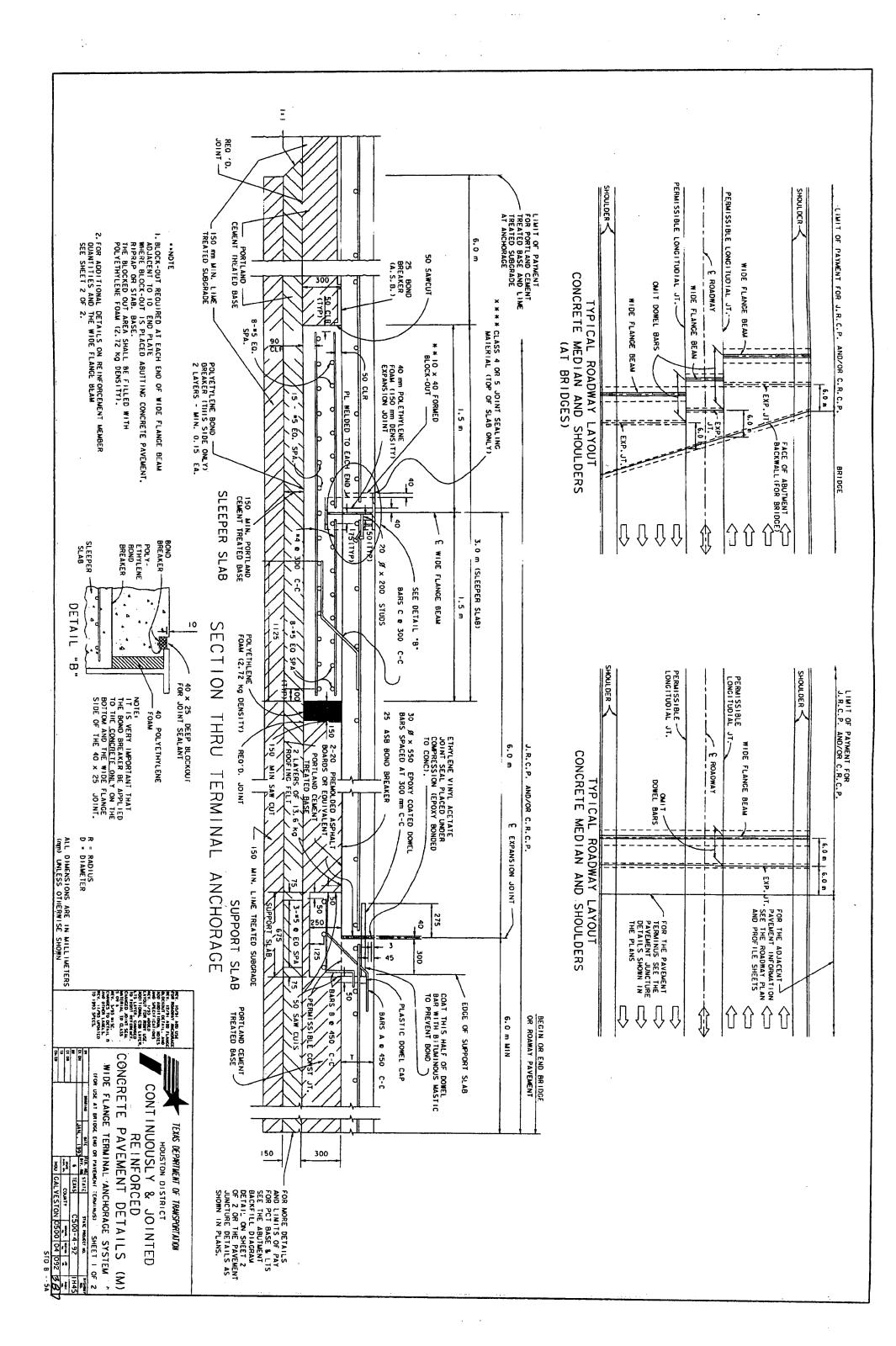
THE MAINTENED AT THE LOWITHDIMAL CONSTRUCTION ONTS. THE WALTIPLE FIRE DAY OR SHALL HAVE A MINIMAL WILLIAM HE TENSILE STRUCTH OF THE BARS SHALL BE SHALL DECROOSED ASSEMBLES SHALL BE SHED ON THE WALTE THE FEBRUAR SHOWN TO THE MAILTIPLE FIRE DAY BE AND SHALL HAVE SHAPE SHOWN TO THE WALTE THE BARS WALL BE SHALL BE SHALL BE SHALL BE SHALL BE SHALL BE RECOVED BY A TH

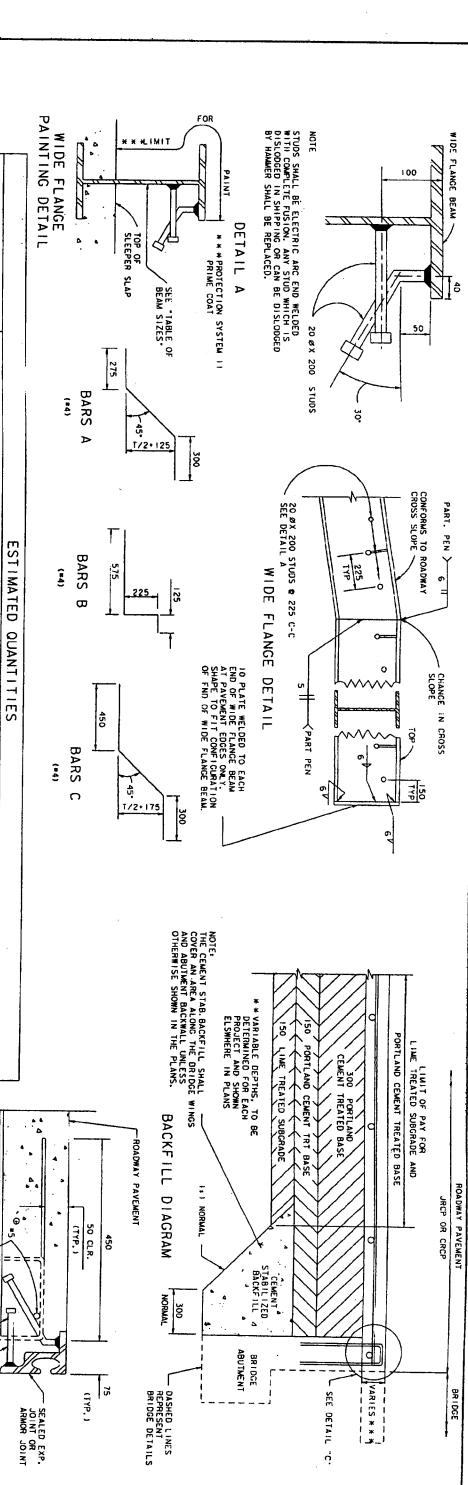
TEXAS DEPARTMENT OF TRANSPORTATION HOUSTON DISTRICT

CONTINUOUSLY REINFORCED CONCRETE PAVEMENT

DETAILS (M)

CRCP - 89 HOUSTON DIST: (2)





| | | | | | (| | | |
|---------------|--|-------------------------------------|-------------------------------------|-------------------------------------|----------------|----------------|-------------------------------------|---|
| | | | | PAVEMENT THIC | THICKNESS (mm) | | | |
| 2 | 200 | 225 | 250 | 275 | 300 | 325 | 350 | 375 |
| 0. 93 | 0.93 m³/m | 0.93 m³/m | 0.93 m³/m | 0.93 m³/m | 0.93 m³/m | 0. 93 m³/m | 0 93 37 | 0.02 20.0 |
| 77 02 | / | 17 07 | | | | | 0, 00 10 10 | 0. 22 111 701 |
| 12.92 | 12.92 Kg/m | (3.07 kg/m | 73.22 kg/m | 73.36 kg/m | 73.65 kg/m | 73.82 kg/m | 73.95 kg/m | 74.11 kg/m |
| 0.18 m³/m | m³/m | 0.18 m³/m | 0.18 m³/m | 0. 18 m³/m | 0 8 9 3/8 | 0 18 810 | 0 18 13 7 | |
| 2 | | 200 | | | | 0. 10 111 711 | 0.10 11 /11 | 0.18 m·/m |
| 9. 23 Kg/m | XQ/III | 9. 36 Kg/m | 9. 58 Kg/m | 9.52 kg/m | 9.68 kg/m | 9.68 kg/m | 9.8) kg/m | 9.81 Kg/m |
| 6.04 | 6.04 m³/m | 6.04 m³/m | 6.04 m³/m | 6.04 m³/m | 6.04 m³/m | 6.04 m³/m | 6.04 m³/m | 6.04 m³/m |
| | | | | | | | | \$1.0 m /m |
| * 103.44 kg/m | KQ/m | * 103.44 kg/m | * 134.69 kg/m | * 134.69 kg/m | * 146.60 kg/m | * 146; 60 kg/m | * 67.43 kg/m | * 167 43 80/0 |
| Z PLATES C | 100 | *Z PLAIES @ | ·Z PLAIES ® | +2 PLATES & | +2 PLATES 0 | +2 PLATES & | -2 PLATES O | +2 PI ATES II |
| 5. /4 -kg &A | Kg EA | 6. /4 Kg EA | 8. ST KG EA | 8, 37 kg EA | 9.98 kg EA | 9.98 kg EA | 12.82 kg EA | 12.82 kg EA |
| 7.85 m Ym | 3 74 | 7.85 m Ym | 7.85 m Vm | 7.85 m ½m | 7.85 m /m | 7 85 m /m | 7 95 3 4 | 7 05 3 |
| | m' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' | 10 8 07/2 | 10 8 -2/- | | | | | 1.00 111 /111 |
| 13.0 | 111 | 13.6 117711 | 19.6 m./m | 19.8 m'/m | 19.8 m²/m | 19.8 m²/m | 19.8 m²/m | 19.8 m²/m |
| , | mQ/m | 0. 50 mg/m | 0.30 mg/m | 0.30 mg/m | 0.30 mg/m | 0.30 mg/m | 0.30 mg/m | 0-30 mo/m |
| 0.30 mg/m | | | | | | | | |
| 7.85 m /m | m ym | 7.85 m ½m 19.8 m²/m 0.30 mg/m | 7.85 m ½m 19.8 m²/m 0.30 mg/m | 7.85 m ½m 19.8 m²/m 0.30 mg/m | 3 3 3 7 | $- \cdot $ | 7.85 m ½m 19.8 m³/m 0.30 mg/m | 7.85 m/m 7.85 m/m 19.8 m/m 19.8 m/m 0.30 mg/m 0.30 mg/m |

NOTES:

| E OF BE | WZIXIII | 375 |
|---|---------------------|------------------------|
| | WZIXIII | 350 |
| 유 | W18X97 | 325 |
| - | WIRX97 | 300 |
| 유 | 68X91# | 275 |
| 유 | W16X89 | 250 |
| 유 | W14X68 | 225 |
| 유 | W14X68 | 200 |
| OF | FLANGE SIGNATION | PAVEMENT THI CKNESS |
| | | |

- 1. POLYETHYLENE FOAM (2.72 KG DENSITY), SAW CUTS, EXPANSION JOINTS, EPOXY COATED DOWEL BARS, AND EXPANSION JOINT MATERIALS WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE ITEM "CONCRETE PAVEMENT".
- SUPPORT SLAB AND SLEEPER SLAB SHALL BE PAID FOR IN ACCORDANCE WITH SPECIAL SPECIFICATION ITEM "WIDE FLANGE TERMINAL ANCHORAGE SYSTEM".
- SHEAR CUTTING OF DOWEL BARS IS PROHIBITED.
- DOWEL BAR EPOXY COATING SHALL CONFORM TO THE SECTION "EPOXY COATING OF REINFORCING STEEL" UNDER ITEM "REINFORCING STEEL"
- JOINT SEAL MATERIAL MEETS ASTM D-1056. "STANDARD SPECIFICATION FOR FLEXIBLE CELLULAR MATERIALS-SPONCE OR EXPANDED RUBBER" AS GRADE 282.
- CEMENT STABILIZED BACKFILL IS REQUIRED AT ALL ABUTMENTS.
- QUANTITIES SHOWN ARE BASED ON ALL JOINTS BEING NORMAL TO THE PAVEMENT, FOR SKEWED JOINTS THE QUANTITIES MUST BE ADJUSTED.
- THE PLACEMENT OF PORTLAND CEMENT TREATED BASE VARIES FROM 150 TO 450 WITHIN THE WIDE FLANGE ANCHORAGE SYSTEM AND THIS REQUIRES THAT PAYMENT BE MADE OF THE STRENGTH, FLEXIBLE BASE TYPE, GRADE, COMPACTION METHOD SPECIFIED AT CLASS 6 MEASUREMENT AND PAYMENT OF "VARIABLE DEPTH".
- IO. THIS STANDARD WILL BE USED WITH THE SPECIAL SPECIFICATION "WIDE FLANGE TERMINAL ANCHORAGE SYSTEM".

R . RADIUS D . DIAMETER

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3. WIDE FLANGE BEAM SHALL BE PAID FOR IN ACCORDANCE WITH ITEM "METAL FOR STRUCTURES".

THE ADDITIONAL STEEL REQUIRED BY THE ABOVE DETAIL "C" SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE INCLUDED IN THE PAYMENT OF ITEMS FOR CONCRETE PAVEMENT. (SHOWING ADDITIONAL REINFORCEMENT FOR ROADWAY PAVEMENT WITH SEALED EXPANSION JOINTS OR ARMOR JOINTS AT ABUTMENTS.)

#5 @ 225 ± C-C

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"5 @ 300 O.C. ±
UNLESS OTHERWISE
SHOWN IN THE PLANS
(FOR ADDITIONAL
INFORMATION SEE
THE BRIDGE ABUTMENT
BACKWALL DETAILS)

75 CLR. (TYP.)

ABUTMENT BACKWALL

DETAIL C

25

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ALTERNATING &



CONTINUOUSLY & JOINTED TEXAS DEPARTMENT OF TRANSPORTATION REINFORCED HOUSTON DISTRICT

CONCRETE PAVEMENT DETAILS (M)

WIDE FLANGE TERMINAL ANCHORAGE SYSTEM

IFOR USE AT DOTIDUE END OR PAYEMENT TERMINUS? SHEET 2 OF 2

TO DATE TO STATE THE STATE STATE