

STREETS
STANDARD DETAILS

COVER PAGE FOR
FINAL DOCUMENT
HERE

STREETS
STANDARD DETAILS

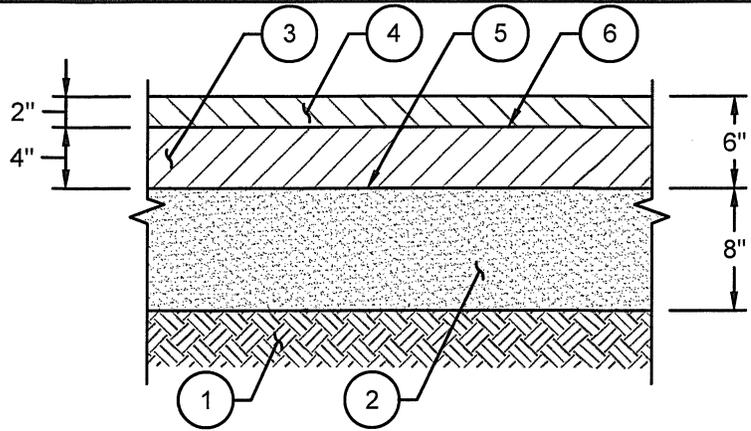
PREFACE HERE

STREET DETAILS

Residential (Local) Street 6-in HMAC Pavement Section	4
Residential (Local) Street 6-in Concrete Pavement Section	5
Residential (Collector) Street 7-in HMAC Pavement Section	6
Residential (Collector) Street 7-in Concrete Pavement Section.....	7
Curb and Gutter	8
Monolithic Curb and Gutter	9
Curb and Gutter Joints.....	10
Curb and Gutter Pavement Tie-In.....	11
Residential (Local) Street Joint Layout.....	12
Residential (Collector) Street Joint Layout	13
Longitudinal Joints	14
Transverse Joints	15
Transverse Expansion Joints	16
Joint Sealing	17
Sawcut and Repair Asphalt Road Pavement.....	18
Sawcut and Repair Concrete Pavement	19
Temporary Pavement Repair	20
Asphalt Driveway at Asphalt Street	21
Concrete Driveway at Concrete Street	22
Concrete Driveway at Asphalt Street	23
Concrete Driveway	24
Pavement Repair at Manhole	25
Concrete Valley Gutter	26

NOTES:

1. PAVEMENT SECTION SHOWN IS MINIMUM SECTION ALLOWED FOR RESIDENTIAL STREET. DESIGN CONDITIONS VARY. PAVEMENT SECTION SHALL BE INCREASED AS DIRECTED BY THE CITY OF LONGVIEW AS CONDITIONS REQUIRE.
2. ALL RESIDENTIAL STREETS SHALL HAVE CURB AND GUTTER UNLESS OTHERWISE APPROVED BY THE CITY OF LONGVIEW.
3. TREATED SUBGRADE SHALL EXTEND 2' BEYOND THE PROPOSED BACK OF CURB FOR CURBED PAVEMENT AND 2' BEYOND THE EDGE OF PAVEMENT FOR NON-CURBED PAVEMENT.



- | <u>MARK</u> | <u>DESCRIPTION</u> |
|-------------|---|
| ① | REMOVE ALL VEGETATION AND DEBRIS PRIOR TO BEGINNING EMBANKMENT. SCARIFY GROUND SURFACE TO 8" AND RECOMPACT TO 95% OF STANDARD PROCTOR (ASTM D-698). PROOF ROLL, TxDOT ITEM 216, ALL AREAS PRIOR TO PLACEMENT OF EMBANKMENT TO DETECT ANY AREAS OF WEAKNESS AND REPLACE WITH FOUNDATION MATERIAL AT CITY OF LONGVIEW'S DIRECTION. AT TIME OF COMPACTION, THE MOISTURE CONTENT OF THE SOIL SHALL BE AS FOLLOWS: |

<u>SOIL DESCRIPTION</u>	<u>PLASTICITY INDEX (PI)</u>	<u>MOISTURE CONTENT AT TIME OF COMPACTION</u>
NON-PLASTIC SILTY SAND SOILS	PI < 15	+/- 3%
SANDY CLAY SOILS	15 < PI < 25	-1% TO +3%
CLAY SOILS	PI > 25	-1% TO +3%

INSTALL FILL FOR EMBANKMENT IN 8" LIFTS, COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR (ASTM D-698). MOISTURE CONTENT SHALL BE AS DESCRIBED ABOVE AT THE TIME OF COMPACTION. SELECT FILL SHALL BE ON-SITE CLAYEY SOILS OR OFF-SITE MATERIAL. OFF-SITE MATERIAL SHALL BE FREE OF ORGANIC MATTER, OR ROCK FRAGMENTS LARGER THAN 2" IN ANY DIRECTION AND POSSES A PLASTICITY INDEX BETWEEN 10 AND 45, WITH A LIQUID LIMIT OF 70 OR LESS. THE FIRST LIFT OF FILL SHALL BE PLACED WITHIN 48 HOURS OF SATISFACTORY COMPACTION OF THE UNDERLYING SUBGRADE SOILS.

BLEND THE SUBGRADE SOILS TO A DEPTH OF 12" OVER THE PHASE TO OBTAIN A UNIFORMLY CONSISTENT PLASTICITY INDEX PRIOR TO LIME STABILIZATION.

- | | |
|---|---|
| ② | 8" OF SUBGRADE SHALL BE STABILIZED WITH LIME OR CEMENT DEPENDING UPON THE PREDOMINANT SUBGRADE SOILS PLASTICITY INDEX AS INDICATED BELOW:
LIME TREATMENT OF CLAY SUBGRADE SOILS SHOULD BE ACCOMPLISHED IN ACCORDANCE WITH TxDOT ITEM 260. THE COMPACTION REQUIREMENTS INDICATED BELOW SHOULD BE SPECIFIED IN LIEU OF THE REQUIREMENTS RECOMMENDED BY TxDOT. LIME SHOULD BE ADDED TO THE SUBGRADE AFTER REMOVAL OF ALL SURFACE VEGETATION AND DEBRIS. A MINIMUM OF SIX PERCENT (6%) HYDRATED LIME SHOULD BE USED TO TREAT SANDY CLAY SUBGRADE SOILS HAVING A PLASTICITY INDEX (PI) BETWEEN 16 AND 25. A MINIMUM OF EIGHT PERCENT (8%) HYDRATED LIME SHOULD BE USED TO TREAT CLAY SUBGRADE SOILS HAVING A PLASTICITY INDEX (PI) OF 26 OR GREATER. LIME STABILIZED SUBGRADE SHALL BE COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR (ASTM D-698) @ ±3% OF OPTIMUM MOISTURE. THE REQUIRED APPLICATION RATES ARE OUTLINED BELOW: |
|---|---|

<u>PLASTICITY INDEX (PI)</u>	<u>APPLICATION (%)</u>	<u>DEPTH OF TREATMENT (INCHES)</u>	<u>LIME REQUIRED (LBS/SY)</u>
16 TO 25	6	8	42
≥26	8	8	54

CEMENT TREATMENT OF SANDY SUBGRADE SOILS SHOULD BE ACCOMPLISHED IN ACCORDANCE WITH TxDOT ITEM 275. THE COMPACTION REQUIREMENTS INDICATED BELOW SHOULD BE SPECIFIED IN LIEU OF THE REQUIREMENTS RECOMMENDED BY TxDOT. TYPE I, TYPE II, OR TYPE I/II PORTLAND CEMENT SHOULD BE ADDED TO THE SUBGRADE AFTER REMOVAL OF ALL SURFACE VEGETATION AND DEBRIS. CEMENT SHOULD BE ADDED ONLY TO THAT AREA WHERE THE MIXING, COMPACTION AND FINE GRADING CAN BE COMPLETED IN DAYLIGHT WITHIN TWO (2) HOURS OF APPLICATION, AND IN ONE CONTINUOUS OPERATION. A MINIMUM OF FOUR PERCENT (4%) TYPE I, TYPE II, OR TYPE I/II PORTLAND CEMENT SHOULD BE USED TO TREAT SANDY AND/OR SILTY SUBGRADE SOILS HAVING A PLASTICITY INDEX (PI) OF 15 OR LESS. THE REQUIRED APPLICATION RATE FOR A FOUR PERCENT (4%) TREATMENT DEPTH OF EIGHT (8) INCHES IS OUTLINED BELOW BASED ON THE PLASTICITY INDEX (PI) OF THE PREDOMINANT SUBGRADE SOILS. CEMENT STABILIZED SUBGRADE SHALL BE COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR (ASTM D-698) @ -4% TO +1% OF OPTIMUM MOISTURE

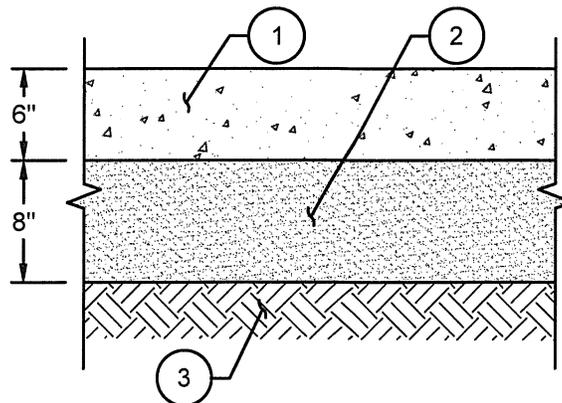
<u>PLASTICITY INDEX (PI)</u>	<u>APPLICATION (%)</u>	<u>DEPTH OF TREATMENT (INCHES)</u>	<u>CEMENT REQUIRED (LBS/SY)</u>
≥15	4	8	30

- | | |
|---|--|
| ③ | 4" OF HMAC INSTALLED IN ONE 4" LIFT, TxDOT ITEM 340, TYPE A OR B COMPACTED USING AIR VOID CONTROL METHOD. |
| ④ | 2" OF HMAC, TxDOT ITEM 340, TYPE D, COMPACTED USING AIR VOID CONTROL METHOD. |
| ⑤ | MC-30 PRIME COAT APPLIED AT A MAXIMUM RATE OF 0.25 GALLONS PER SQUARE YARD. RATE OF APPLICATION SHALL BE ADJUSTED IN THE FIELD TO PROVIDE UNIFORM COVERAGE WITHOUT RUNOFF, AND THE RATE SHALL BE APPROVED BY THE CITY OF LONGVIEW, BASED UPON FIELD TESTS. |
| ⑥ | CRS-2H TACK COAT MECHANICALLY APPLIED AT A MAXIMUM RATE OF 0.10 GALLONS PER SQUARE YARD. RATE OF APPLICATION SHALL BE ADJUSTED IN THE FIELD TO PROVIDE UNIFORM COVERAGE WITHOUT RUNOFF, AND THE RATE SHALL BE APPROVED BY THE CITY OF LONGVIEW. BASED UPON FIELD TESTS. TACK COAT SHALL BE APPLIED BETWEEN ALL LAYERS OF HMAC. |

STREETS	CITY OF LONGVIEW, TEXAS STANDARD DETAILS	RESIDENTIAL (LOCAL) STREET 6" HMAC PAVEMENT SECTION
LATEST REVISION: 3/20/2018		

NOTES:

1. PAVEMENT DESIGN SHALL BE CONCRETE PAVEMENT CONTRACTION DESIGN (CPCD), JOINTED CONCRETE PAVEMENT. ALTERNATE PAVEMENT DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY OF LONGVIEW.
2. PAVEMENT SECTION SHOWN IS THE MINIMUM SECTION ALLOWED FOR RESIDENTIAL STREETS. DESIGN CONDITIONS VARY. PAVEMENT SECTION SHALL BE INCREASED AS DIRECTED BY THE CITY OF LONGVIEW AS CONDITIONS REQUIRE.
3. ALL CONCRETE PAVEMENT SHALL HAVE MONOLITHIC CURB UNLESS OTHERWISE APPROVED BY THE CITY OF LONGVIEW.
4. TREATED SUBGRADE SHALL EXTEND 2' BEYOND THE PROPOSED BACK OF CURB FOR CURBED PAVEMENT SECTION AND 2' BEYOND THE EDGE OF PAVEMENT FOR NON-CURBED PAVEMENT.



MARK DESCRIPTION

① 6" PORTLAND CEMENT CONCRETE PAVEMENT. PAVEMENT SHALL BE TxDOT CLASS P HAVING A MINIMUM 4400 PSI COMPRESSIVE STRENGTH AT 28 DAYS (MINIMUM 6 SACKS PER CUBIC YARD), WITH SMOOTH #7 DOWEL BARS ALONG ALL TRANSVERSE JOINTS (18" LONG AT MINIMUM 12" SPACING OC), AND DEFORMED #4 TIE BARS ALONG ALL LONGITUDINAL JOINTS (36" LONG AT MINIMUM 24" SPACING OC). TRAVERSE AND LONGITUDINAL JOINTS SHALL HAVE A MAXIMUM SPACING OF 12' ON CENTER.

② 8" OF SUBGRADE SHALL BE STABILIZED WITH LIME OR CEMENT DEPENDING UPON THE PREDOMINANT SUBGRADE SOILS PLASTICITY INDEX AS INDICATED BELOW:
 LIME TREATMENT OF CLAY SUBGRADE SOILS SHOULD BE ACCOMPLISHED IN ACCORDANCE WITH TxDOT ITEM 260. THE COMPACTION REQUIREMENTS INDICATED BELOW SHOULD BE SPECIFIED IN LIEU OF THE REQUIREMENTS RECOMMENDED BY TxDOT. LIME SHOULD BE ADDED TO THE SUBGRADE AFTER REMOVAL OF ALL SURFACE VEGETATION AND DEBRIS. A MINIMUM OF SIX PERCENT (6%) HYDRATED LIME SHOULD BE USED TO TREAT SANDY CLAY SUBGRADE SOILS HAVING A PLASTICITY INDEX (PI) BETWEEN 16 AND 25. A MINIMUM OF EIGHT PERCENT (8%) HYDRATED LIME SHOULD BE USED TO TREAT CLAY SUBGRADE SOILS HAVING A PLASTICITY INDEX (PI) OF 26 OR GREATER. LIME STABILIZED SUBGRADE SHALL BE COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR (ASTM D-698) @ ±3% OF OPTIMUM MOISTURE. THE REQUIRED APPLICATION RATES ARE OUTLINED BELOW:

PLASTICITY INDEX (PI)	APPLICATION (%)	DEPTH OF TREATMENT (INCHES)	LIME REQUIRED (LBS/SY)
16 TO 25	6	8	42
≥26	8	8	54

CEMENT TREATMENT OF SANDY SUBGRADE SOILS SHOULD BE ACCOMPLISHED IN ACCORDANCE WITH TxDOT ITEM 275. THE COMPACTION REQUIREMENTS INDICATED BELOW SHOULD BE SPECIFIED IN LIEU OF THE REQUIREMENTS RECOMMENDED BY TxDOT. TYPE I, TYPE II, OR TYPE I/II PORTLAND CEMENT SHOULD BE ADDED TO THE SUBGRADE AFTER REMOVAL OF ALL SURFACE VEGETATION AND DEBRIS. CEMENT SHOULD BE ADDED ONLY TO THAT AREA WHERE THE MIXING, COMPACTION AND FINE GRADING CAN BE COMPLETED IN DAYLIGHT WITHIN TWO (2) HOURS OF APPLICATION, AND IN ONE CONTINUOUS OPERATION. A MINIMUM OF FOUR PERCENT (4%) TYPE I, TYPE II, OR TYPE I/II PORTLAND CEMENT SHOULD BE USED TO TREAT SANDY AND/OR SILTY SUBGRADE SOILS HAVING A PLASTICITY INDEX (PI) OF 15 OR LESS. THE REQUIRED APPLICATION RATE FOR A FOUR PERCENT (4%) TREATMENT DEPTH OF EIGHT (8) INCHES IS OUTLINED BELOW BASED ON THE PLASTICITY INDEX (PI) OF THE PREDOMINANT SUBGRADE SOILS. CEMENT STABILIZED SUBGRADE SHALL BE COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR (ASTM D-698) @ -4% TO +1% OF OPTIMUM MOISTURE.

PLASTICITY INDEX (PI)	APPLICATION (%)	DEPTH OF TREATMENT (INCHES)	CEMENT REQUIRED (LBS/SY)
≥15	4	8	30

③ REMOVE ALL VEGETATION AND DEBRIS PRIOR TO BEGINNING EMBANKMENT. SCARIFY GROUND SURFACE TO 8" AND COMPACT TO 95% OF MAXIMUM DENSITY PER ASTM D-698 STANDARD PROCTOR. PROOF ROLL COMPACTED SUBGRADE PER TxDOT ITEM 216 PRIOR TO PLACEMENT OF EMBANKMENT TO DETECT ANY AREAS OF WEAKNESS AND REPLACE WITH FOUNDATION MATERIAL AS DIRECTED BY THE CITY OF LONGVIEW. DURING COMPACTION, THE MOISTURE CONTENT OF THE SOIL SHALL BE AS FOLLOWS:

SOIL DESCRIPTION	PLASTICITY INDEX (PI)	MOISTURE CONTENT AT TIME OF COMPACTION
NON-PLASTIC SILTY SAND SOILS	PI < 15	+/- 3%
SANDY CLAY SOILS	15 < PI < 25	-1% TO +3%
CLAY SOILS	PI > 25	-1% TO +3%

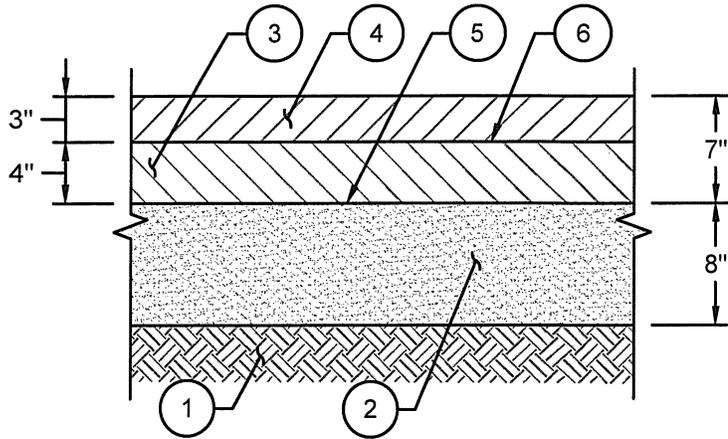
INSTALL FILL FOR EMBANKMENT IN 8" LIFTS, COMPACTED IN HORIZONTAL LIFTS TO A MINIMUM OF 95% OF MAXIMUM DENSITY PER ASTM D-698 STANDARD PROCTOR. MOISTURE CONTENT SHALL BE AS DESCRIBED ABOVE DURING COMPACTION. SELECT FILL SHALL BE ON-SITE CLAYEY SANDY SOILS OR OFF-SITE MATERIAL. MATERIAL SHALL BE FREE OF ORGANIC MATTER OR ROCK FRAGMENTS LARGER THAN 2" IN ANY DIRECTION AND POSSES A PLASTICITY INDEX BETWEEN 10 AND 45, WITH A LIQUID LIMIT OF 70 OR LESS. THE FIRST LIFT OF FILL SHALL BE PLACED WITHIN 48 HOURS OF SATISFACTORY COMPACTION OF THE UNDERLYING SUBGRADE SOILS.

IF DIRECTED BY THE CITY OF LONGVIEW, BLEND THE SUBGRADE SOILS TO A DEPTH OF 12" OVER THE PROJECT AREA TO OBTAIN A UNIFORMLY CONSISTENT PLASTICITY INDEX PRIOR TO LIME OR CEMENT STABILIZATION.

STREETS	CITY OF LONGVIEW, TEXAS STANDARD DETAILS	RESIDENTIAL (LOCAL) STREET 6" CONCRETE PAVEMENT SECTION
LATEST REVISION: 3/20/2018		

NOTES:

1. PAVEMENT SECTION SHOWN IS MINIMUM SECTION ALLOWED FOR RESIDENTIAL STREET. DESIGN CONDITIONS VARY. PAVEMENT SECTION SHALL BE INCREASED AS DIRECTED BY THE CITY OF LONGVIEW AS CONDITIONS REQUIRE.
2. ALL RESIDENTIAL STREETS SHALL HAVE CURB AND GUTTER UNLESS OTHERWISE APPROVED BY THE CITY OF LONGVIEW.
3. TREATED SUBGRADE SHALL EXTEND 2' BEYOND THE PROPOSED BACK OF CURB FOR CURBED PAVEMENT AND 2' BEYOND THE EDGE OF PAVEMENT FOR NON-CURBED PAVEMENT.



- | MARK | DESCRIPTION |
|------|---|
| ① | REMOVE ALL VEGETATION AND DEBRIS PRIOR TO BEGINNING EMBANKMENT. SCARIFY GROUND SURFACE TO 8" AND RECOMPACT TO 95% OF STANDARD PROCTOR (ASTM D-698). PROOF ROLL, TxDOT ITEM 216, ALL AREAS PRIOR TO PLACEMENT OF EMBANKMENT TO DETECT ANY AREAS OF WEAKNESS AND REPLACE WITH FOUNDATION MATERIAL AT CITY OF LONGVIEW'S DIRECTION. AT TIME OF COMPACTION, THE MOISTURE CONTENT OF THE SOIL SHALL BE AS FOLLOWS: |

SOIL DESCRIPTION	PLASTICITY INDEX (PI)	MOISTURE CONTENT AT TIME OF COMPACTION
NON-PLASTIC SILTY SAND SOILS	PI < 15	+/- 3%
SANDY CLAY SOILS	15 < PI < 25	-1% TO +3%
CLAY SOILS	PI > 25	-1% TO +3%

INSTALL FILL FOR EMBANKMENT IN 8" LIFTS, COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR (ASTM D-698). MOISTURE CONTENT SHALL BE AS DESCRIBED ABOVE AT THE TIME OF COMPACTION. SELECT FILL SHALL BE ON-SITE CLAYEY SOILS OR OFF-SITE MATERIAL. OFF-SITE MATERIAL SHALL BE FREE OF ORGANIC MATTER, OR ROCK FRAGMENTS LARGER THAN 2" IN ANY DIRECTION AND POSSES A PLASTICITY INDEX BETWEEN 10 AND 45, WITH A LIQUID LIMIT OF 70 OR LESS. THE FIRST LIFT OF FILL SHALL BE PLACED WITHIN 48 HOURS OF SATISFACTORY COMPACTION OF THE UNDERLYING SUBGRADE SOILS.

BLEND THE SUBGRADE SOILS TO A DEPTH OF 12" OVER THE PHASE TO OBTAIN A UNIFORMLY CONSISTENT PLASTICITY INDEX PRIOR TO LIME STABILIZATION.

- | | |
|---|---|
| ② | 8" OF SUBGRADE SHALL BE STABILIZED WITH LIME OR CEMENT DEPENDING UPON THE PREDOMINANT SUBGRADE SOILS PLASTICITY INDEX AS INDICATED BELOW:
LIME TREATMENT OF CLAY SUBGRADE SOILS SHOULD BE ACCOMPLISHED IN ACCORDANCE WITH TxDOT ITEM 260. THE COMPACTION REQUIREMENTS INDICATED BELOW SHOULD BE SPECIFIED IN LIEU OF THE REQUIREMENTS RECOMMENDED BY TxDOT. LIME SHOULD BE ADDED TO THE SUBGRADE AFTER REMOVAL OF ALL SURFACE VEGETATION AND DEBRIS. A MINIMUM OF SIX PERCENT (6%) HYDRATED LIME SHOULD BE USED TO TREAT SANDY CLAY SUBGRADE SOILS HAVING A PLASTICITY INDEX (PI) BETWEEN 16 AND 25. A MINIMUM OF EIGHT PERCENT (8%) HYDRATED LIME SHOULD BE USED TO TREAT CLAY SUBGRADE SOILS HAVING A PLASTICITY INDEX (PI) OF 26 OR GREATER. LIME STABILIZED SUBGRADE SHALL BE COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR (ASTM D-698) @ ±3% OF OPTIMUM MOISTURE. THE REQUIRED APPLICATION RATES ARE OUTLINED BELOW: |
|---|---|

PLASTICITY INDEX (PI)	APPLICATION (%)	DEPTH OF TREATMENT (INCHES)	LIME REQUIRED (LBS/SY)
16 TO 25	6	8	42
≥26	8	8	54

CEMENT TREATMENT OF SANDY SUBGRADE SOILS SHOULD BE ACCOMPLISHED IN ACCORDANCE WITH TxDOT ITEM 275. THE COMPACTION REQUIREMENTS INDICATED BELOW SHOULD BE SPECIFIED IN LIEU OF THE REQUIREMENTS RECOMMENDED BY TxDOT. TYPE I, TYPE II, OR TYPE III PORTLAND CEMENT SHOULD BE ADDED TO THE SUBGRADE AFTER REMOVAL OF ALL SURFACE VEGETATION AND DEBRIS. CEMENT SHOULD BE ADDED ONLY TO THAT AREA WHERE THE MIXING, COMPACTION AND FINE GRADING CAN BE COMPLETED IN DAYLIGHT WITHIN TWO (2) HOURS OF APPLICATION, AND IN ONE CONTINUOUS OPERATION. A MINIMUM OF FOUR PERCENT (4%) TYPE I, TYPE II, OR TYPE III PORTLAND CEMENT SHOULD BE USED TO TREAT SANDY AND/OR SILTY SUBGRADE SOILS HAVING A PLASTICITY INDEX (PI) OF 15 OR LESS. THE REQUIRED APPLICATION RATE FOR A FOUR PERCENT (4%) TREATMENT DEPTH OF EIGHT (8) INCHES IS OUTLINED BELOW BASED ON THE PLASTICITY INDEX (PI) OF THE PREDOMINANT SUBGRADE SOILS. CEMENT STABILIZED SUBGRADE SHALL BE COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR (ASTM D-698) @ -4% TO +1% OF OPTIMUM MOISTURE

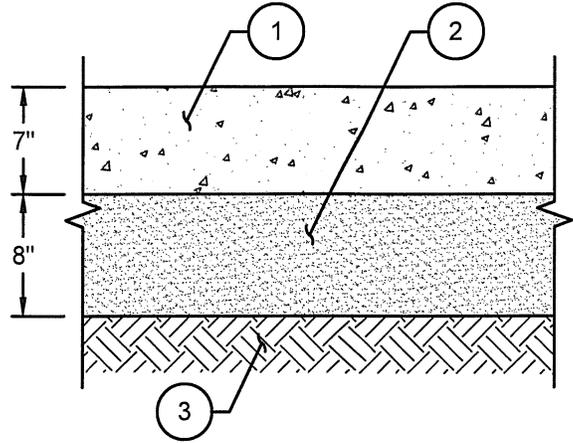
PLASTICITY INDEX (PI)	APPLICATION (%)	DEPTH OF TREATMENT (INCHES)	CEMENT REQUIRED (LBS/SY)
≥15	4	8	30

- | | |
|---|--|
| ③ | 4" OF HMAC INSTALLED IN ONE 4" LIFT, TxDOT ITEM 340, TYPE A OR B COMPACTED USING AIR VOID CONTROL METHOD. |
| ④ | 3" OF HMAC, TxDOT ITEM 340, TYPE D, COMPACTED USING AIR VOID CONTROL METHOD. |
| ⑤ | MC-30 PRIME COAT APPLIED AT A MAXIMUM RATE OF 0.25 GALLONS PER SQUARE YARD. RATE OF APPLICATION SHALL BE ADJUSTED IN THE FIELD TO PROVIDE UNIFORM COVERAGE WITHOUT RUNOFF, AND THE RATE SHALL BE APPROVED BY THE CITY OF LONGVIEW, BASED UPON FIELD TESTS. |
| ⑥ | CRS-2H TACK COAT MECHANICALLY APPLIED AT A MAXIMUM RATE OF 0.10 GALLONS PER SQUARE YARD. RATE OF APPLICATION SHALL BE ADJUSTED IN THE FIELD TO PROVIDE UNIFORM COVERAGE WITHOUT RUNOFF, AND THE RATE SHALL BE APPROVED BY THE CITY OF LONGVIEW, BASED UPON FIELD TESTS. TACK COAT SHALL BE APPLIED BETWEEN ALL LAYERS OF HMAC. |

STREETS LATEST REVISION: 3/16/2018	CITY OF LONGVIEW, TEXAS STANDARD DETAILS	RESIDENTIAL (COLLECTOR) STREET 7" HMAC PAVEMENT SECTION
--	---	--

NOTES:

1. PAVEMENT DESIGN SHALL BE CONCRETE PAVEMENT CONTRACTION DESIGN (CPCD), JOINTED CONCRETE PAVEMENT. ALTERNATE PAVEMENT DESIGN MUST BE SUBMITTED AND APPROVED BY THE CITY OF LONGVIEW.
2. PAVEMENT SECTION SHOWN IS THE MINIMUM SECTION ALLOWED FOR RESIDENTIAL STREETS. DESIGN CONDITIONS VARY. PAVEMENT SECTION SHALL BE INCREASED AS DIRECTED BY THE CITY OF LONGVIEW AS CONDITIONS REQUIRE.
3. ALL CONCRETE PAVEMENT SHALL HAVE MONOLITHIC CURB UNLESS OTHERWISE APPROVED BY THE CITY OF LONGVIEW.
4. TREATED SUBGRADE SHALL EXTEND 2' BEYOND THE PROPOSED BACK OF CURB FOR CURBED PAVEMENT SECTION AND 2' BEYOND THE EDGE OF PAVEMENT FOR NON-CURBED PAVEMENT.



MARK

DESCRIPTION

① 7" PORTLAND CEMENT CONCRETE PAVEMENT. PAVEMENT SHALL BE TxDOT CLASS P HAVING A MINIMUM 4400 PSI COMPRESSIVE STRENGTH AT 28 DAYS (MINIMUM 6 SACKS PER CUBIC YARD), WITH SMOOTH #8 DOWEL BARS ALONG ALL TRANSVERSE JOINTS (18" LONG AT MINIMUM 12" SPACING OC), AND DEFORMED #5 TIE BARS ALONG ALL LONGITUDINAL JOINTS (42" LONG AT MINIMUM 24" SPACING OC). TRAVERSE AND LONGITUDINAL JOINTS SHALL HAVE A MAXIMUM SPACING OF 15' ON CENTER.

② 8" OF SUBGRADE SHALL BE STABILIZED WITH LIME OR CEMENT DEPENDING UPON THE PREDOMINANT SUBGRADE SOILS PLASTICITY INDEX AS INDICATED BELOW:
 LIME TREATMENT OF CLAY SUBGRADE SOILS SHOULD BE ACCOMPLISHED IN ACCORDANCE WITH TxDOT ITEM 260. THE COMPACTION REQUIREMENTS INDICATED BELOW SHOULD BE SPECIFIED IN LIEU OF THE REQUIREMENTS RECOMMENDED BY TxDOT. LIME SHOULD BE ADDED TO THE SUBGRADE AFTER REMOVAL OF ALL SURFACE VEGETATION AND DEBRIS. A MINIMUM OF SIX PERCENT (6%) HYDRATED LIME SHOULD BE USED TO TREAT SANDY CLAY SUBGRADE SOILS HAVING A PLASTICITY INDEX (PI) BETWEEN 16 AND 25. A MINIMUM OF EIGHT PERCENT (8%) HYDRATED LIME SHOULD BE USED TO TREAT CLAY SUBGRADE SOILS HAVING A PLASTICITY INDEX (PI) OF 26 OR GREATER. LIME STABILIZED SUBGRADE SHALL BE COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR (ASTM D-698) @ ±3% OF OPTIMUM MOISTURE. THE REQUIRED APPLICATION RATES ARE OUTLINED BELOW:

PLASTICITY INDEX (PI)	APPLICATION (%)	DEPTH OF TREATMENT (INCHES)	LIME REQUIRED (LBS/SY)
16 TO 25	6	8	42
≥26	8	8	54

CEMENT TREATMENT OF SANDY SUBGRADE SOILS SHOULD BE ACCOMPLISHED IN ACCORDANCE WITH TxDOT ITEM 275. THE COMPACTION REQUIREMENTS INDICATED BELOW SHOULD BE SPECIFIED IN LIEU OF THE REQUIREMENTS RECOMMENDED BY TxDOT. TYPE I, TYPE II, OR TYPE III PORTLAND CEMENT SHOULD BE ADDED TO THE SUBGRADE AFTER REMOVAL OF ALL SURFACE VEGETATION AND DEBRIS. CEMENT SHOULD BE ADDED ONLY TO THAT AREA WHERE THE MIXING, COMPACTION AND FINE GRADING CAN BE COMPLETED IN DAYLIGHT WITHIN TWO (2) HOURS OF APPLICATION, AND IN ONE CONTINUOUS OPERATION. A MINIMUM OF FOUR PERCENT (4%) TYPE I, TYPE II, OR TYPE III PORTLAND CEMENT SHOULD BE USED TO TREAT SANDY AND/OR SILTY SUBGRADE SOILS HAVING A PLASTICITY INDEX (PI) OF 15 OR LESS. THE REQUIRED APPLICATION RATE FOR A FOUR PERCENT (4%) TREATMENT DEPTH OF EIGHT (8) INCHES IS OUTLINED BELOW BASED ON THE PLASTICITY INDEX (PI) OF THE PREDOMINANT SUBGRADE SOILS. CEMENT STABILIZED SUBGRADE SHALL BE COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR (ASTM D-698) @ -4% TO +1% OF OPTIMUM MOISTURE.

PLASTICITY INDEX (PI)	APPLICATION (%)	DEPTH OF TREATMENT (INCHES)	CEMENT REQUIRED (LBS/SY)
≥15	4	8	30

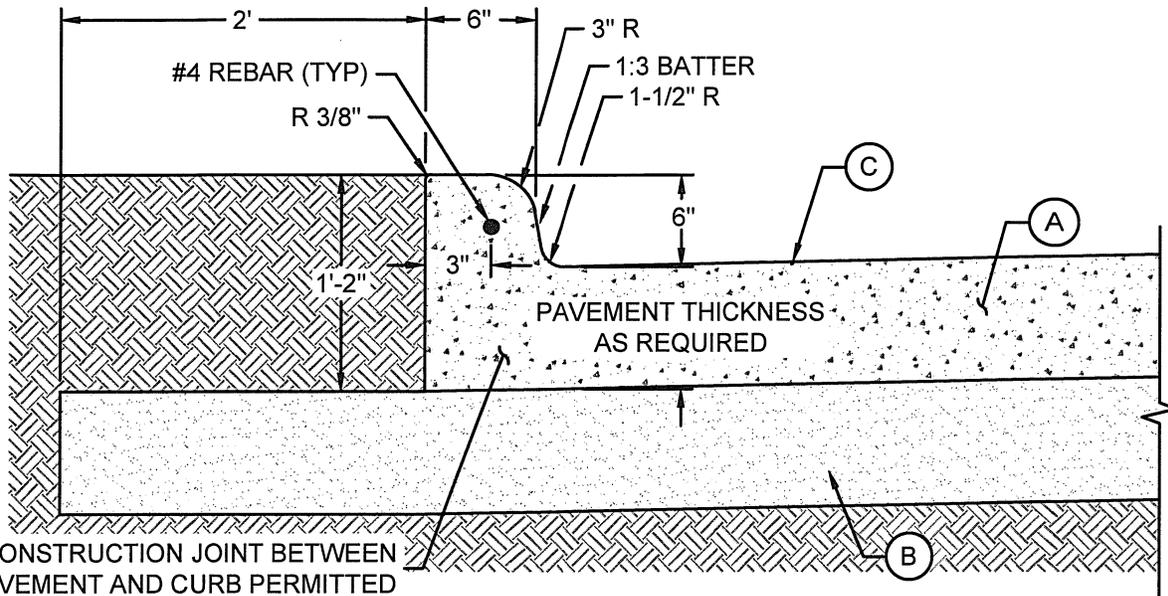
③ REMOVE ALL VEGETATION AND DEBRIS PRIOR TO BEGINNING EMBANKMENT. SCARIFY GROUND SURFACE TO 8" AND COMPACT TO 95% OF MAXIMUM DENSITY PER ASTM D-698 STANDARD PROCTOR. PROOF ROLL COMPACTED SUBGRADE PER TxDOT ITEM 216 PRIOR TO PLACEMENT OF EMBANKMENT TO DETECT ANY AREAS OF WEAKNESS AND REPLACE WITH FOUNDATION MATERIAL AS DIRECTED BY THE CITY OF LONGVIEW. DURING COMPACTION, THE MOISTURE CONTENT OF THE SOIL SHALL BE AS FOLLOWS:

SOIL DESCRIPTION	PLASTICITY INDEX (PI)	MOISTURE CONTENT AT TIME OF COMPACTION
NON-PLASTIC SILTY SAND SOILS	PI < 15	+/- 3%
SANDY CLAY SOILS	15 < PI < 25	-1% TO +3%
CLAY SOILS	PI > 25	-1% TO +3%

INSTALL FILL FOR EMBANKMENT IN 8" LIFTS, COMPACTED IN HORIZONTAL LIFTS TO A MINIMUM OF 95% OF MAXIMUM DENSITY PER ASTM D-698 STANDARD PROCTOR. MOISTURE CONTENT SHALL BE AS DESCRIBED ABOVE DURING COMPACTION. SELECT FILL SHALL BE ON-SITE CLAYEY SANDY SOILS OR OFF-SITE MATERIAL. MATERIAL SHALL BE FREE OF ORGANIC MATTER OR ROCK FRAGMENTS LARGER THAN 2" IN ANY DIRECTION AND POSSES A PLASTICITY INDEX BETWEEN 10 AND 45, WITH A LIQUID LIMIT OF 70 OR LESS. THE FIRST LIFT OF FILL SHALL BE PLACED WITHIN 48 HOURS OF SATISFACTORY COMPACTION OF THE UNDERLYING SUBGRADE SOILS.

IF DIRECTED BY THE CITY OF LONGVIEW, BLEND THE SUBGRADE SOILS TO A DEPTH OF 12" OVER THE PROJECT AREA TO OBTAIN A UNIFORMLY CONSISTENT PLASTICITY INDEX PRIOR TO LIME OR CEMENT STABILIZATION.

STREETS	CITY OF LONGVIEW, TEXAS STANDARD DETAILS	RESIDENTIAL (COLLECTOR) STREET 7" CONCRETE PAVEMENT SECTION
LATEST REVISION: 3/20/2018		



NOTES:

1. PORTLAND CEMENT PAVEMENT SHALL BE TxDOT CLASS P HAVING A MINIMUM 4400 PSI COMPRESSIVE STRENGTH AT 28 DAYS (MINIMUM 6 SACKS PER CUBIC YARD).
2. INSTALL TWO #4 DIA x 18" SMOOTH DOWEL BARS CENTERED IN GUTTER AT CONSTRUCTION JOINTS AND TRANSITIONS.
3. INSTALL TRANSVERSE JOINTS IN CURB AND GUTTER MATCHING PAVEMENT TRANSVERSE JOINT LOCATIONS AND TYPES.
4. CROSS SLOPE OF GUTTER SHALL MATCH CROSS SLOPE OF PAVEMENT.
5. CONSTRUCTION JOINT AND/OR COLD JOINT BETWEEN THE CURB AND PAVEMENT IS NOT PERMITTED.

MARK

DESCRIPTION

- (A) CONCRETE PAVEMENT PER CITY OF LONGVIEW STANDARD (MINIMUM 6" THICK FOR RESIDENTIAL LOCAL AND MINIMUM 7" THICK FOR RESIDENTIAL COLLECTOR).
- (B) LINE OR CEMENT STABILIZED SUBGRADE PER CITY OF LONGVIEW STANDARD. EXTEND STABILIZATION A MINIMUM OF 2' BEYOND THE BACK OF CURB.
- (C) PROVIDE SCORE OR OTHER APPROVED DELINEATION LINE 24" FROM AND PARALLEL TO BACK OF CURB TO CREATE STANDARD 24" CURB AND GUTTER APPEARANCE. FINISH CURB AND GUTTER WITH BROOM FINISH MATCHING STANDARD 24" CURB AND GUTTER TO SET APART FROM PAVEMENT FINISH.

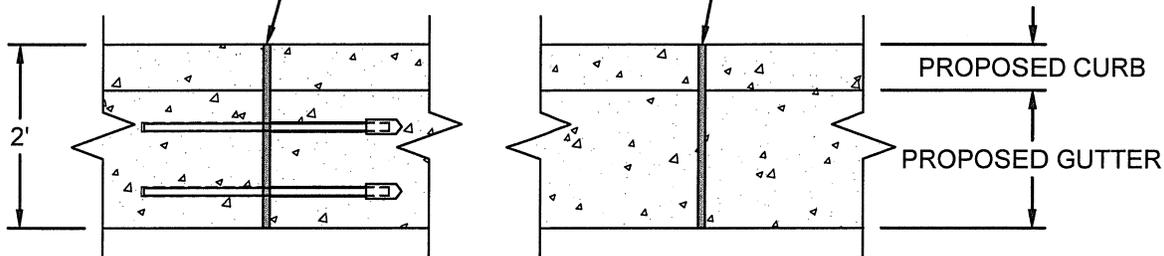
STREETS
LATEST REVISION:
3/16/2018

CITY OF LONGVIEW, TEXAS
STANDARD DETAILS

MONOLITHIC CURB
AND GUTTER

CONCRETE PAVEMENT - CURB AND GUTTER SHALL BE MONOLITHICALLY PLACED WITH CONCRETE PAVEMENT. JOINTS IN CURB AND GUTTER SHALL MATCH PAVEMENT JOINT LOCATIONS AND TYPES. INSTALL TWO #4 x 18" SMOOTH DOWEL BARS CENTER IN PAVEMENT AND EVENLY SPACED IN GUTTER.

ASPHALT PAVEMENTS
DUMMY JOINTS 1/4" WIDE x 3/4" DEEP, 1/4" RADIUS TOOLED OR SAW - CUT JOINT



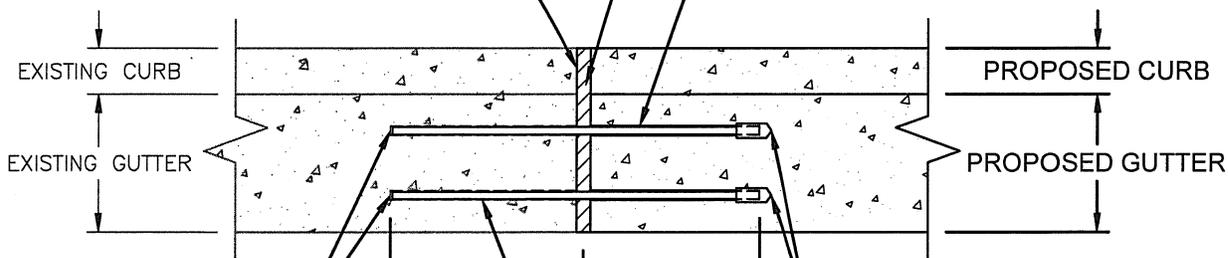
CURB AND GUTTER JOINT DETAIL (PLAN VIEW)

NTS

INSTALL 1/2" PREMOLDED EXPANSION JOINT MATERIAL AT TIE - IN POINT

TIE - IN AT EXISTING JOINT OR SAWCUT EXISTING CURB AND GUTTER FULL WIDTH AT TIE - IN POINT

PAINT AND GREASE ENDS PRIOR TO NEW CURB AND GUTTER PLACEMENT



5/8" DIA DRILLED HOLES WITH INSIDE BLOWN CLEAN AND COATED WITH APPROVED EPOXY RESIN
2 BARS PER TIE - IN

1/2" DIA SMOOTH DOWELS x 18'
COAT ONE HALF WITH APPROVED EPOXY RESIN BEFORE INSERTION INTO THE DOWEL HOLE
2 BARS PER TIE - IN

EXPANSION JOINT (PLAN VIEW)

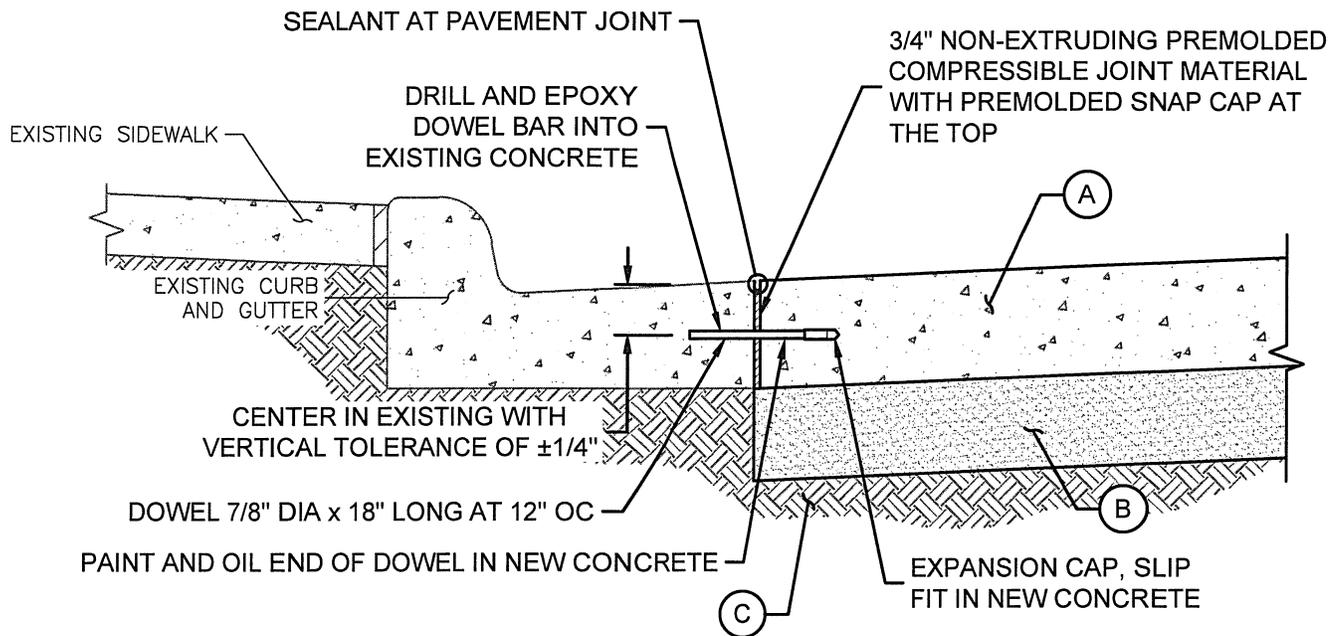
NTS

STREETS

LATEST REVISION:
3/20/2018

CITY OF LONGVIEW, TEXAS
STANDARD DETAILS

CURB AND GUTTER
JOINTS



MARK

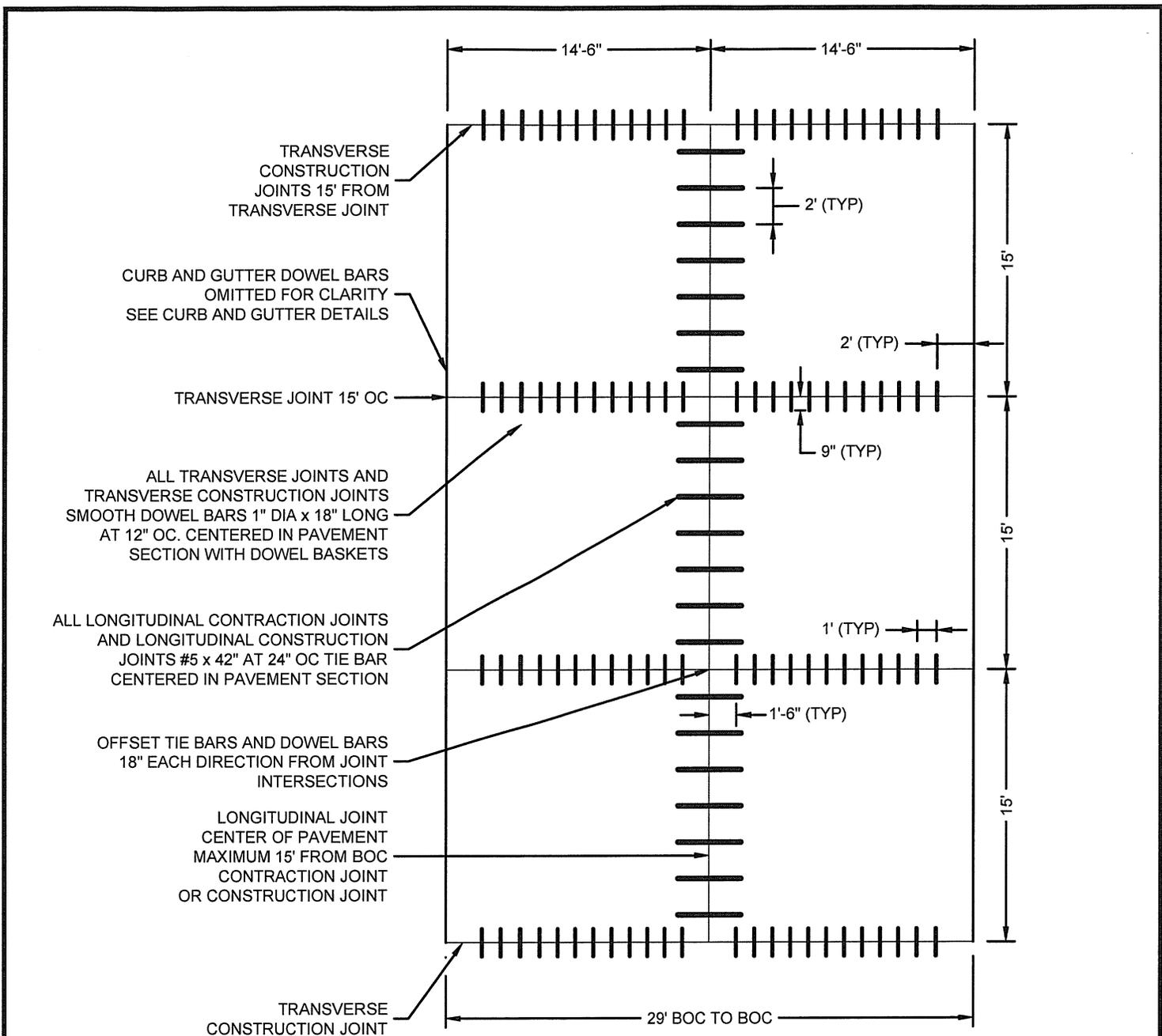
DESCRIPTION

- (A) CONCRETE PAVEMENT PER CITY OF LONGVIEW STANDARDS.
- (B) LINE OR CEMENT TREATED, COMPACTED SUBGRADE PER CITY OF LONGVIEW STANDARDS.
- (C) SCARIFY AND COMPACT PER CITY OF LONGVIEW STANDARDS.

NOTES:

1. ALL TIE - INS SHALL BE DONE WITH EXPANSION JOINTS AS DETAILED HERE UNLESS OTHERWISE APPROVED BY THE CITY OF LONGVIEW.
2. DETAIL IS TYPICAL FOR TIE - IN OF NEW CONCRETE PAVEMENT TO EXISTING CURB AND GUTTER.
3. NEW CURB AND GUTTER TIE - IN TO EXISTING PAVEMENT - SIMILAR CONSTRUCTION IS REQUIRED FOR TIE - IN OF NEW CURB AND GUTTER TO EXISTING PAVEMENT WITH DOWEL BARS FIXED IN PAVEMENT AND GREASED BAR WITH CAP IN CURB AND GUTTER.
4. EXPANSION JOINTS SHALL BE CONTINUOUS AND SHALL EXTEND ON ALL SIDES OF BLOCKOUTS AND TIE - INS.
5. PREMOLDED JOINT MATERIAL SHALL HAVE SNAP CAP AT THE TOP. CUTTING OR SHREDDING THE JOINT MATERIAL IS NOT PERMITTED. SEAL JOINTS AS REQUIRED BY THE CITY OF LONGVIEW.

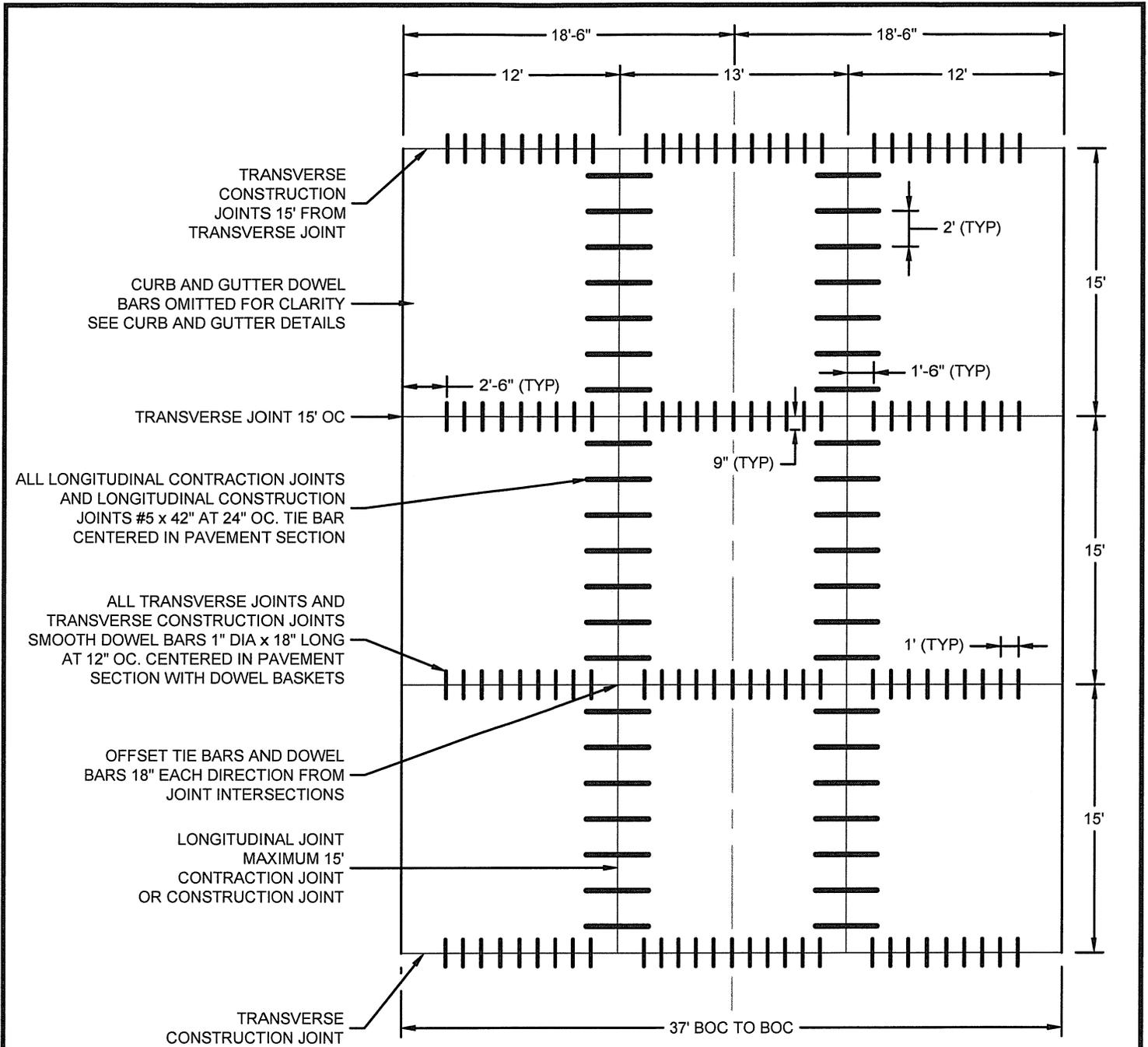
	STREETS	CITY OF LONGVIEW, TEXAS STANDARD DETAILS	CURB AND GUTTER PAVEMENT TIE - IN
	LATEST REVISION: 3/17/2018		



NOTES:

1. SEE ADDITIONAL DETAILS FOR JOINT CONSTRUCTION. DETAILS FOR PAVEMENT THICKNESS, CURB AND GUTTER, AND CURB AND GUTTER DOWEL BARS ARE SHOWN ELSEWHERE. REFER TO STANDARD DETAILS.
2. TRANSVERSE JOINTS SHALL BE SPACED ON 15 FEET CENTER UNLESS OTHERWISE APPROVED BY THE CITY OF LONGVIEW.
3. TRANSVERSE CONSTRUCTION JOINTS SHALL BE LOCATED AT THE LOCATION OF A TYPICAL TRANSVERSE JOINT. INTERMEDIATE TRANSVERSE CONSTRUCTION JOINTS ARE NOT PERMITTED.
4. LAYOUT DOWEL BARS STARTING AT LONGITUDINAL JOINTS. OFFSET 1ST DOWEL BARS 18" EACH SIDE OF LONGITUDINAL JOINTS. SPACE DOWEL BARS 12" OC. PLACEMENT OF TRANSVERSE DOWEL BARS SHALL TERMINATE 2'-0" FROM BOC EACH SIDE OF PAVEMENT.
5. CURB AND GUTTER DOWEL BARS OMITTED FOR CLARITY. INSTALL TWO #4 DOWELS EVENLY SPACED AT THE GUTTER AT ALL TRANSVERSE JOINTS AND TRANSVERSE CONTRACTION JOINTS. SEE CURB AND GUTTER DETAILS.

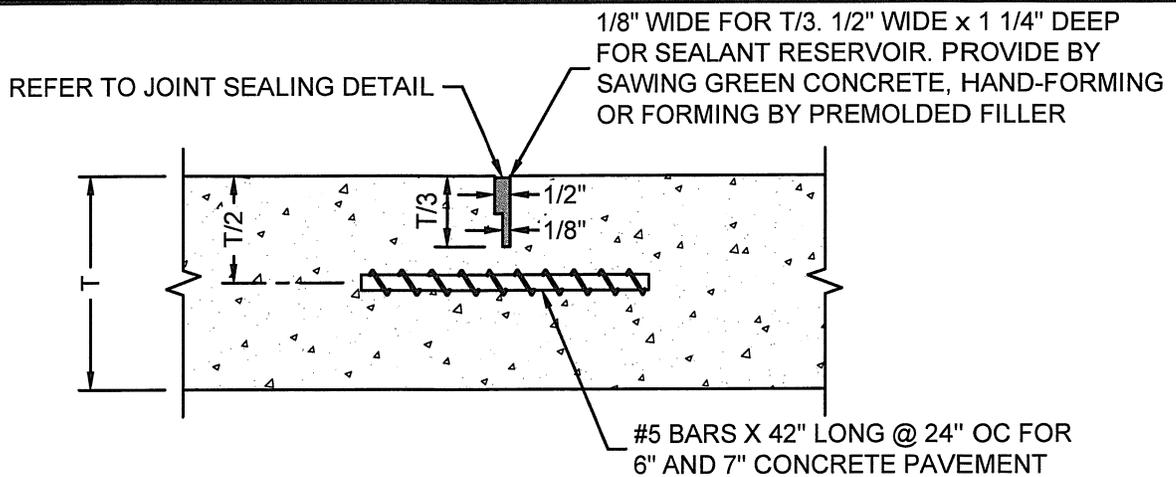
	STREETS	CITY OF LONGVIEW, TEXAS STANDARD DETAILS	RESIDENTIAL LOCAL STREET JOINT LAYOUT
	LATEST REVISION: 3/21/2018		



NOTES:

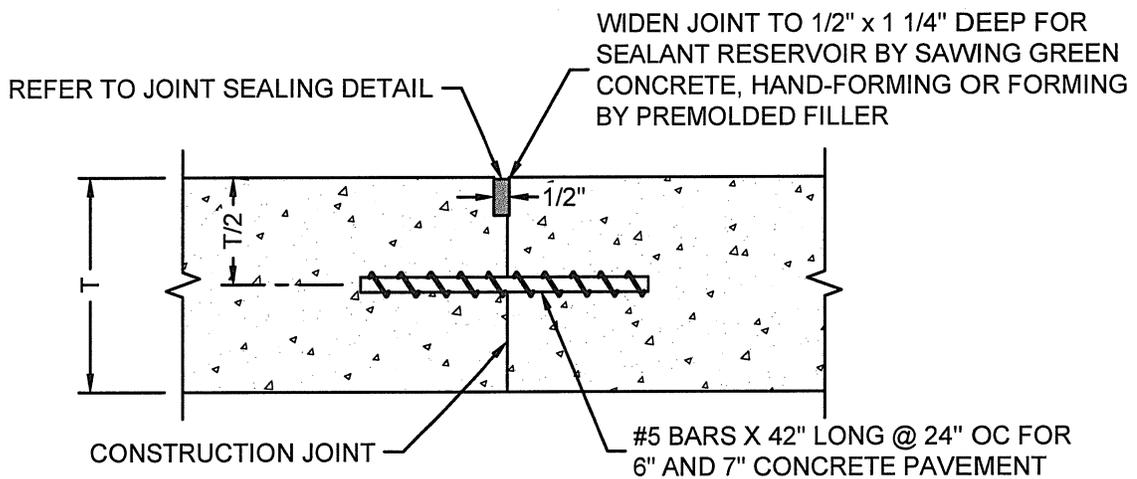
1. SEE ADDITIONAL DETAILS FOR JOINT CONSTRUCTION. DETAILS FOR PAVEMENT THICKNESS, CURB AND GUTTER, AND CURB AND GUTTER DOWEL BARS ARE SHOWN ELSEWHERE. REFER TO STANDARD DETAILS.
2. TRANSVERSE JOINTS SHALL BE SPACED ON 15 FEET CENTER UNLESS OTHERWISE APPROVED BY THE CITY OF LONGVIEW.
3. TRANSVERSE CONSTRUCTION JOINTS SHALL BE LOCATED AT THE LOCATION OF A TYPICAL TRANSVERSE JOINT. INTERMEDIATE TRANSVERSE CONSTRUCTION JOINTS ARE NOT PERMITTED.
4. LAYOUT DOWEL BARS STARTING AT LONGITUDINAL JOINTS. OFFSET 1ST DOWEL BARS 18" EACH SIDE OF LONGITUDINAL JOINTS. SPACE DOWEL BARS 12" OC. PLACEMENT OF TRANSVERSE DOWEL BARS SHALL TERMINATE 2'-6" FROM BOC EACH SIDE OF PAVEMENT.
5. CURB AND GUTTER DOWEL BARS OMITTED FOR CLARITY. INSTALL TWO #4 DOWELS EVENLY SPACED AT THE GUTTER AT ALL TRANSVERSE JOINTS AND TRANSVERSE CONSTRUCTION JOINTS. SEE CURB AND GUTTER DETAILS.

	STREETS	CITY OF LONGVIEW, TEXAS STANDARD DETAILS	RESIDENTIAL COLLECTOR STREET JOINT LAYOUT
	LATEST REVISION: 3/21/2018		



LONGITUDINAL CONTRACTION JOINT

NTS



LONGITUDINAL CONSTRUCTION JOINT

NTS

NOTES:

1. CONCRETE PAVEMENT THICKNESS SHALL BE A MINIMUM OF 6" FOR RESIDENTIAL LOCAL STREETS AND A MINIMUM OF 7" FOR RESIDENTIAL COLLECTOR STREETS.
2. LONGITUDINAL JOINTS SHALL BE STRAIGHT WITH NO MORE THAN 1" VARIATION IN 20 FEET.
3. LONGITUDINAL JOINTS SHALL BE SPACED A MAXIMUM OF 15 FEET APART OR 15 FEET FROM BOC.
4. TIE BARS SHALL BE GRADE 60 DEFORMED BARS WITH A MAXIMUM SPACING OF 24" OC AND SHALL BE OFFSET 18" FROM TRANSVERSE JOINT IN INTERSECTIONS.
5. JOINT SEALANT RESERVOIR SHALL BE A MINIMUM OF 1/3 THE PAVEMENT THICKNESS AND 3/4" WIDE ($\pm 1/8"$). SAWCUT JOINTS SHALL BE COMPLETED WITHIN 24 HOURS OF CONCRETE PLACEMENT.
6. TIE BARS AT CONSTRUCTION JOINTS MAY BE TWO PIECE BARS WITH CITY OF LONGVIEW APPROVAL.
7. BENT BARS SHALL BE STRAIGHTENED. BROKEN OR MISSING BARS SHALL BE REPLACED WITH NEW BARS. DRILL AND EPOXY REPLACEMENT BARS IN PLACE AS DIRECTED BY THE CITY OF LONGVIEW.

STREETS

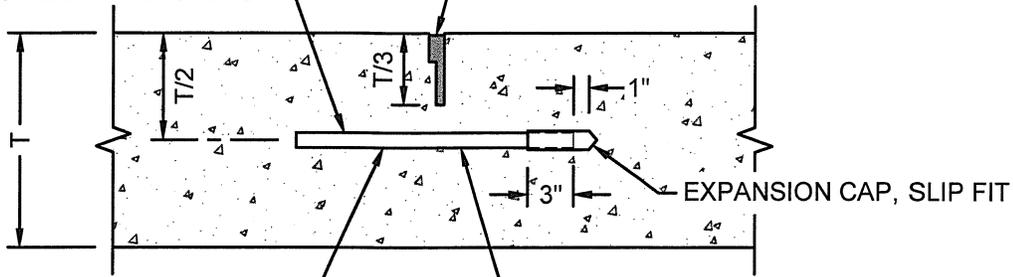
LATEST REVISION:
3/21/2018

CITY OF LONGVIEW, TEXAS
STANDARD DETAILS

LONGITUDINAL JOINTS

SET IN PLACE AT CENTER OF PAVEMENT SECTION WITH DOWEL BAR BASKETS

REFER TO JOINT SEALING DETAIL



#8 SMOOTH BARS x 18" LONG AT 12" OC FOR 6" AND 7" CONCRETE PAVEMENT

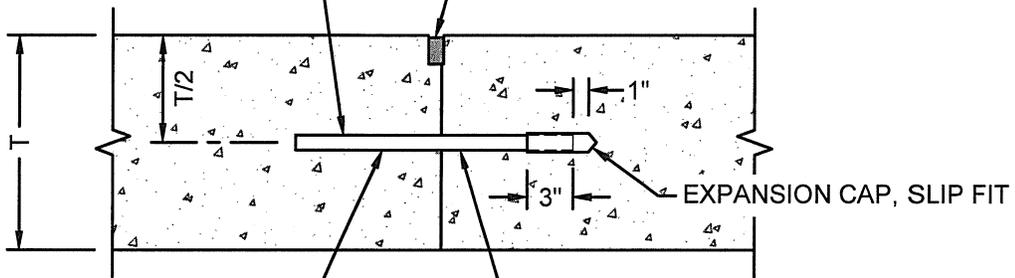
PAINT AND OIL THIS END OF DOWEL

TRANSVERSE JOINT

NTS

FOR NEW PAVEMENT, SET IN PLACE WITH DOWEL BAR BASKETS. FOR CONNECTION TO EXISTING PAVEMENTS, DRILL AND EPOXY DOWEL BAR INTO EXISTING PAVEMENT

SAWCUT OR FORM 1/2" WIDE x 1 1/4" DEEP RESERVOIR REFER TO JOINT SEALING DETAIL



#8 SMOOTH BARS x 18" LONG AT 12" OC FOR 6" AND 7" CONCRETE PAVEMENT

PAINT AND OIL THIS END OF DOWEL

TRANSVERSE CONSTRUCTION JOINT

NTS

NOTES:

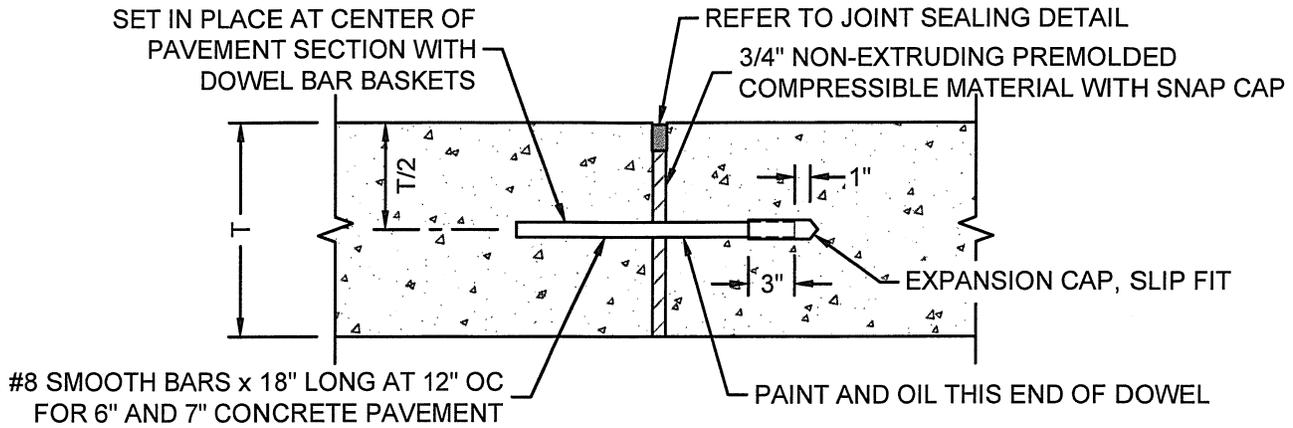
1. CONCRETE PAVEMENT THICKNESS SHALL BE A MINIMUM OF 6" FOR RESIDENTIAL LOCAL STREETS AND A MINIMUM OF 7" FOR RESIDENTIAL COLLECTOR STREETS.
2. TRANSVERSE JOINTS SHALL BE STRAIGHT WITH NO MORE THAN 1" VARIATION IN 20 FEET.
3. TRANSVERSE JOINTS SHALL BE SPACED NO MORE THAN 15 FEET OC.
4. DOWEL BARS SHALL BE SPACED AT 12" OC AND SHALL BE OFFSET 18" FROM LONGITUDINAL JOINT INTERSECTIONS.
5. JOINT SEALANT RESERVOIR SHALL BE A MINIMUM OF 1/3 THE PAVEMENT THICKNESS AND 3/4" WIDE ($\pm 1/8"$). SAWCUT JOINTS SHALL BE COMPLETED WITHIN 24 HOURS OF CONCRETE PLACEMENT.
6. BENT, BROKEN, OR MISSING BARS SHALL BE REPLACED WITH NEW BARS. DRILL AND EPOXY REPLACEMENT BARS IN PLACE AS DIRECTED BY THE CITY OF LONGVIEW.
7. DOWEL BAR PLACEMENT TOLERANCE SHALL BE $\pm 1/4"$ HORIZONTALLY AND VERTICALLY. REMOVE SHIPPING WIRES FROM DOWEL BAR BASKETS PRIOR TO CEMENT PLACEMENT.

STREETS

LATEST REVISION:
3/21/2018

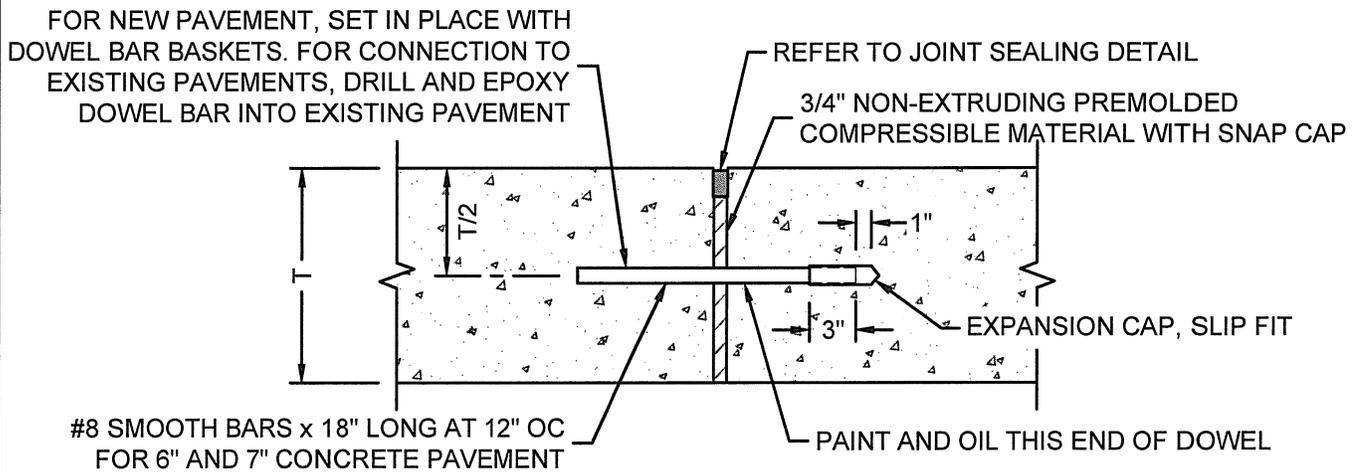
CITY OF LONGVIEW, TEXAS
STANDARD DETAILS

TRANSVERSE JOINTS



TRANSVERSE EXPANSION JOINT

NTS



TRANSVERSE EXPANSION - CONSTRUCTION JOINT

NTS

NOTES:

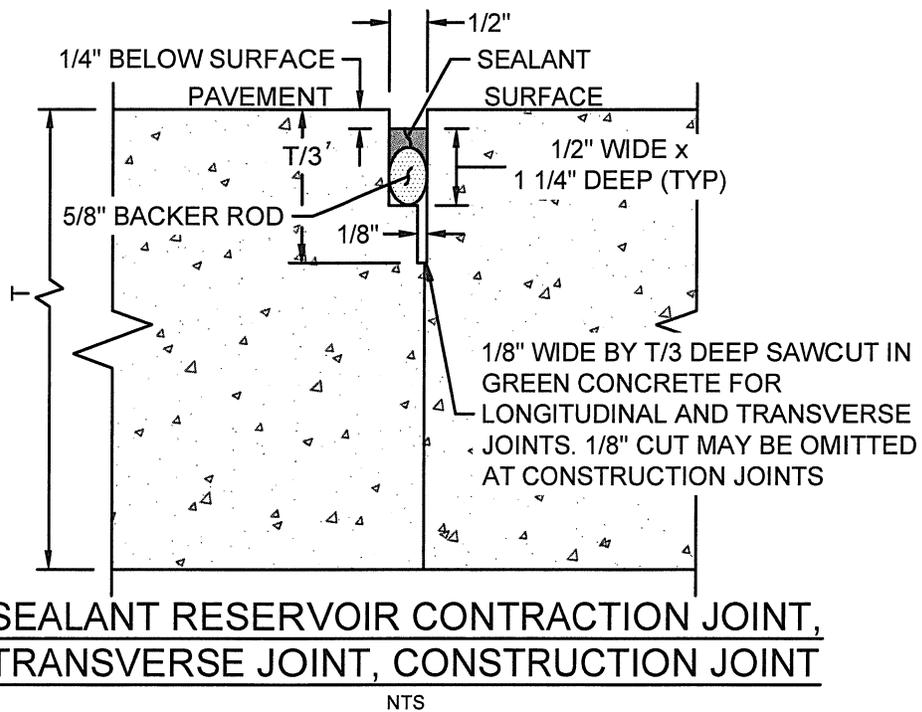
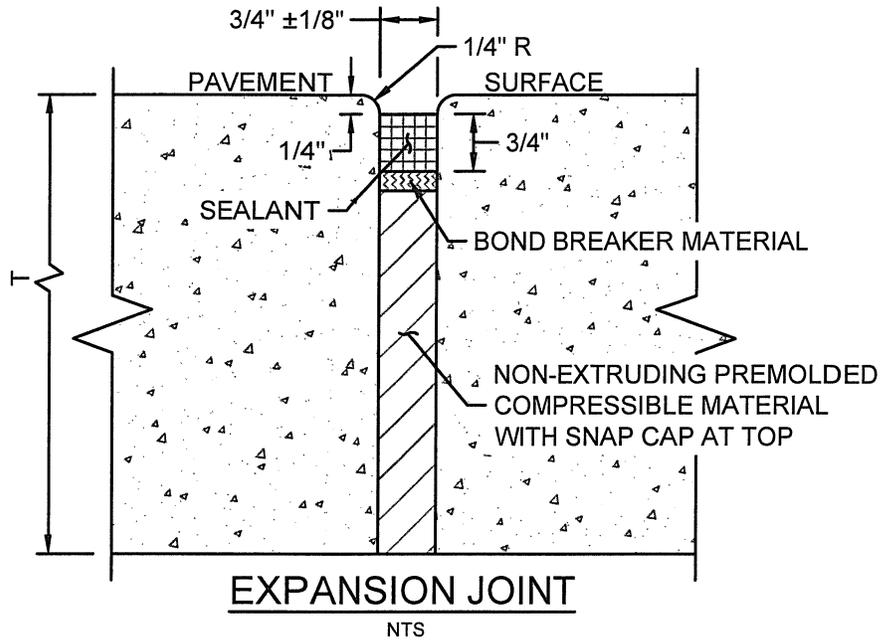
1. PROVIDE EXPANSION JOINTS AT INTERSECTING PAVEMENTS. ADDITIONAL EXPANSION JOINTS SHALL BE LOCATED AS DIRECTED BY THE CITY OF LONGVIEW.
2. CONCRETE PAVEMENT THICKNESS SHALL BE A MINIMUM OF 6" FOR RESIDENTIAL LOCAL STREETS AND A MINIMUM OF 7" FOR RESIDENTIAL COLLECTOR STREETS.
3. TRANSVERSE JOINTS SHALL BE STRAIGHT WITH NO MORE THAN 1" VARIATION IN 20 FEET.
4. JOINTS SHALL BE SPACED NO MORE THAN 15 FEET OC. DOWEL BARS SHALL BE SPACED AT 12" OC AND SHALL BE OFFSET 18" FROM LONGITUDINAL JOINT INTERSECTIONS.
5. BENT, BROKEN, OR MISSING BARS SHALL BE REPLACED WITH NEW BARS. DRILL AND EPOXY BARS IN PLACE AS DIRECTED BY THE CITY OF LONGVIEW.
6. DOWEL PLACEMENT TOLERANCE SHALL BE $\pm 1/4$ " HORIZONTALLY AND VERTICALLY. REMOVE SHIPPING WIRES FROM DOWEL BAR BASKETS PRIOR TO CEMENT PLACEMENT.

STREETS

LATEST REVISION:
3/21/2018

CITY OF LONGVIEW, TEXAS
STANDARD DETAILS

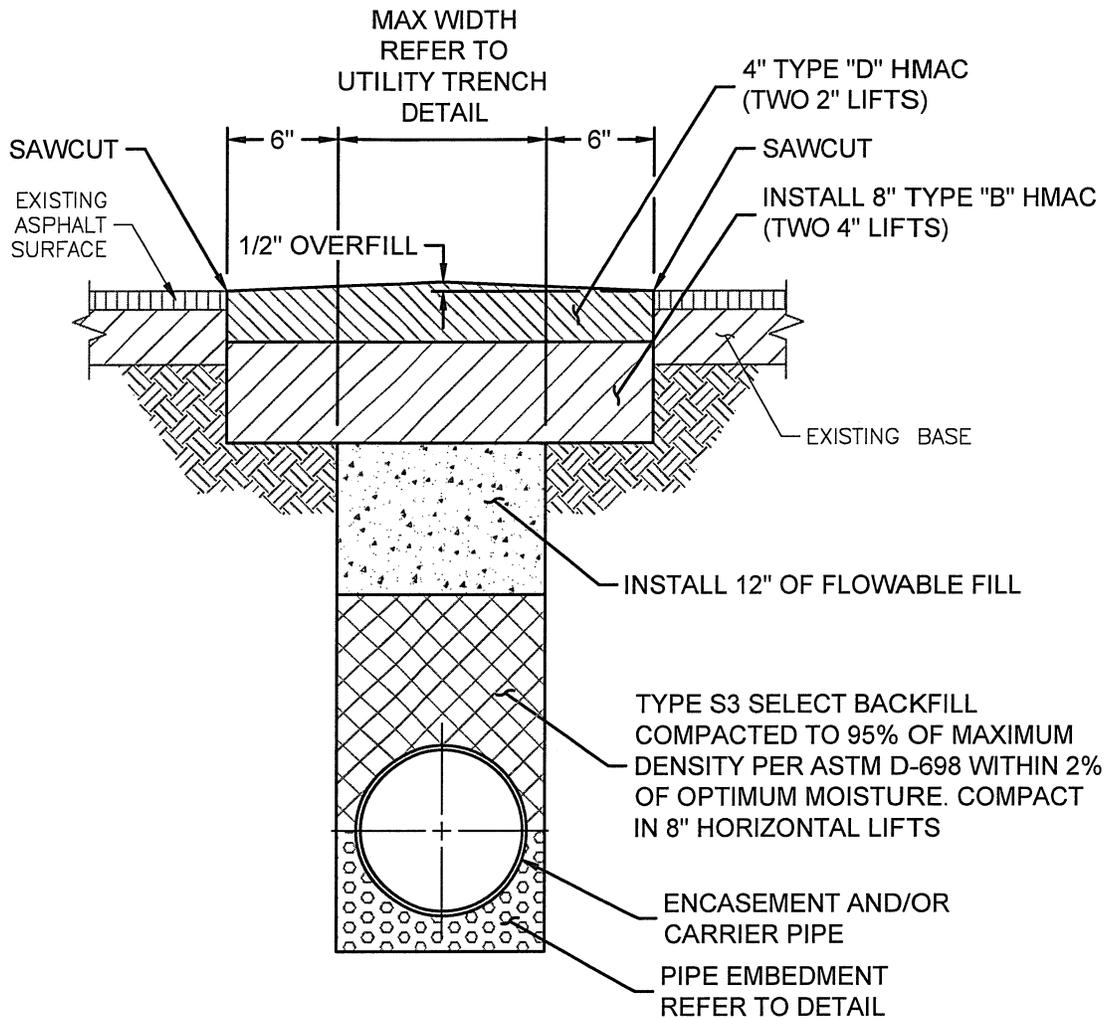
TRANSVERSE
EXPANSION JOINTS



NOTE:

LONGITUDINAL AND TRANSVERSE JOINTS SHALL BE A MINIMUM OF 1/8" WIDE FOR 1/3 OF THE PAVEMENT THICKNESS.

STREETS LATEST REVISION: 3/21/2018	CITY OF LONGVIEW, TEXAS STANDARD DETAILS	JOINT SEALING
--	---	----------------------



NOTE:

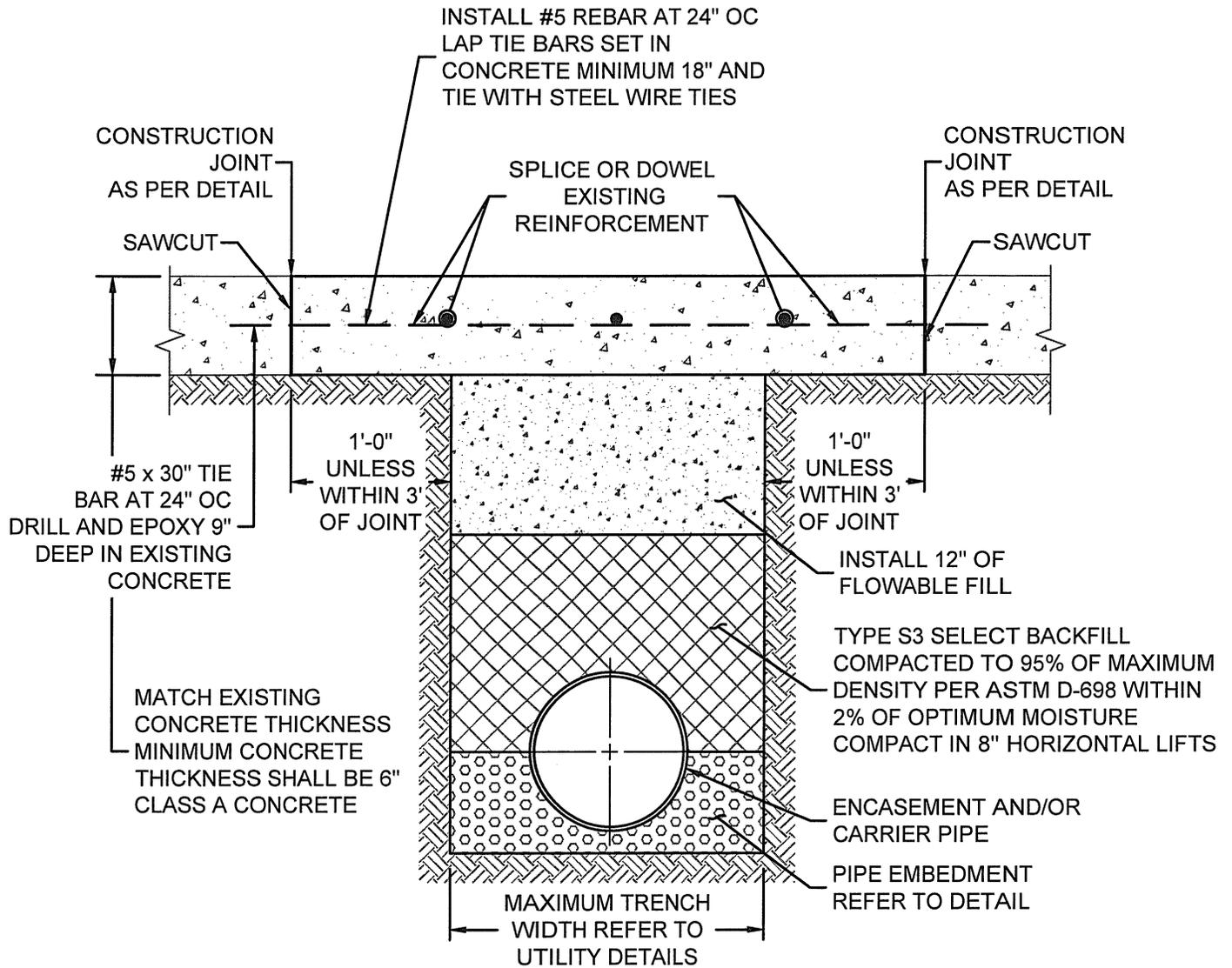
PROVIDE CRS-2H TACK COAT AT A RATE OF 0.10 GALLON PER SQUARE YARD BETWEEN EACH ASPHALT LIFT.

STREETS

LATEST REVISION:
3/20/2018

CITY OF LONGVIEW, TEXAS
STANDARD DETAILS

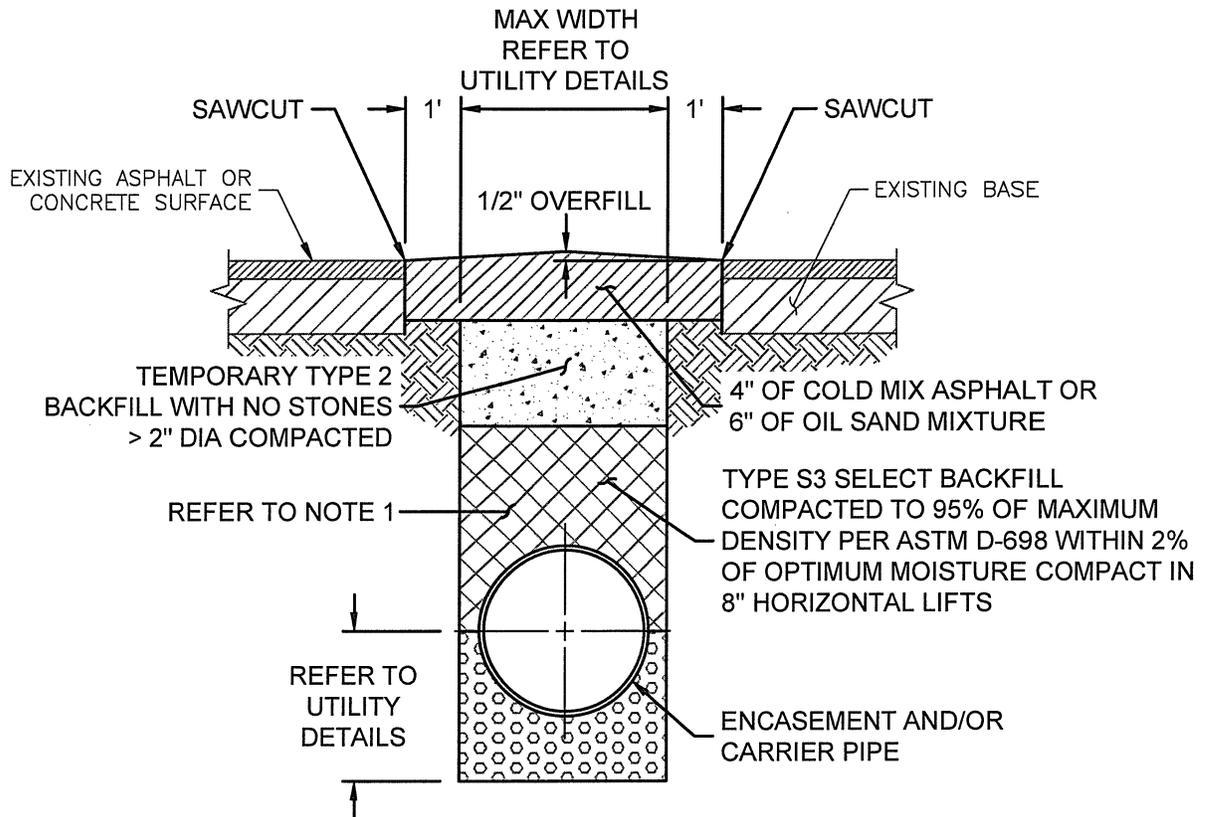
SAWCUT AND REPAIR
ASPHALT ROAD PAVEMENT



NOTE:

CONTRACTOR SHALL MATCH EXISTING FINISH, GRADE, AND JOINTS.

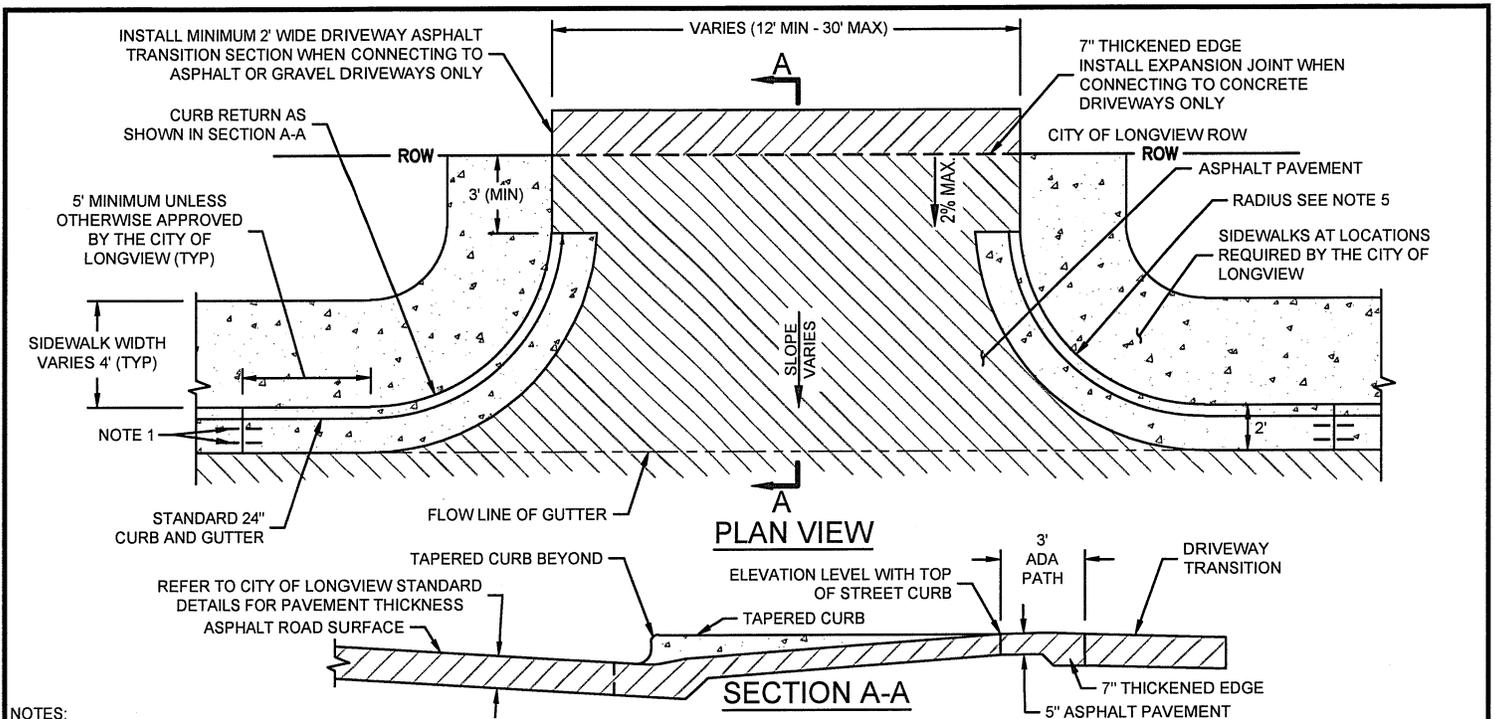
<p>STREETS</p> <p>LATEST REVISION: 3/20/2018</p>	<p>CITY OF LONGVIEW, TEXAS</p> <p>STANDARD DETAILS</p>	<p>SAWCUT AND REPAIR</p> <p>CONCRETE PAVEMENT</p>
--	--	---



NOTE:

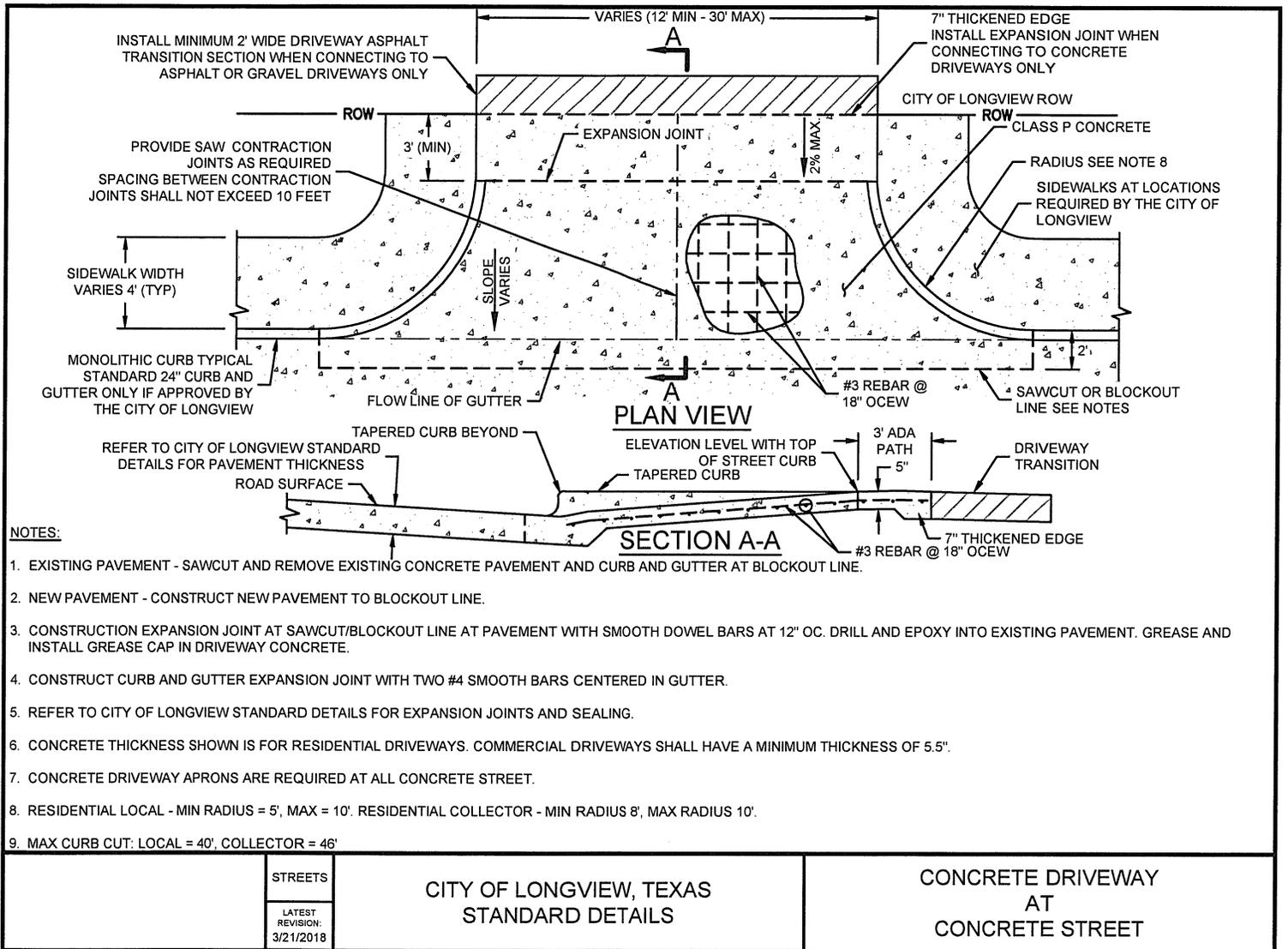
1. CONCRETE PAVEMENT: EXTEND COMPACTED S3 BACKFILL TO WITHIN 12" OF THE BASE OF THE CONCRETE PAVEMENT. ASPHALT PAVEMENT: EXTEND COMPACTED S3 BACKFILL TO WITHIN 12" OF THE TOP OF THE ASPHALT PAVEMENT.
2. TO BE USED FOR TEMPORARY STREET OR DRIVEWAY REPAIR FOR EXISTING STREETS OR DRIVEWAY WITHIN CONSTRUCTION LIMITS UNTIL FINAL ROADWAY SECTION IS COMPLETED.

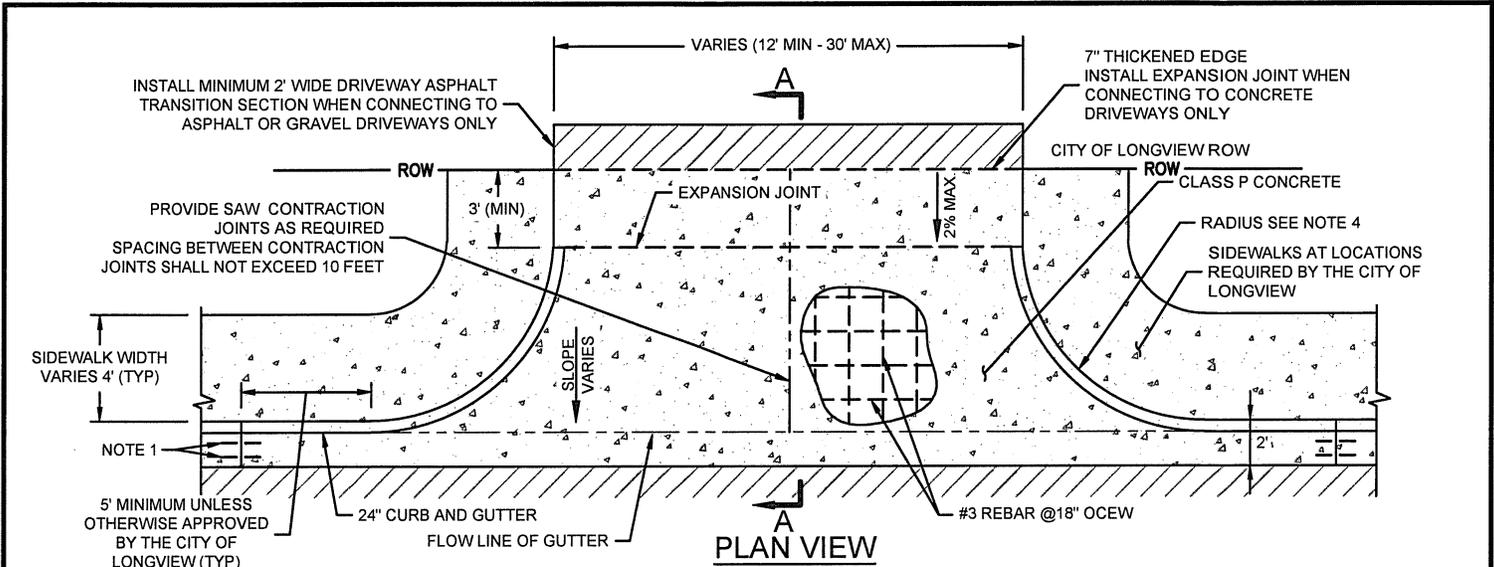
	STREETS LATEST REVISION: 3/20/2018	CITY OF LONGVIEW, TEXAS STANDARD DETAILS	TEMPORARY PAVEMENT REPAIR
--	--	---	------------------------------



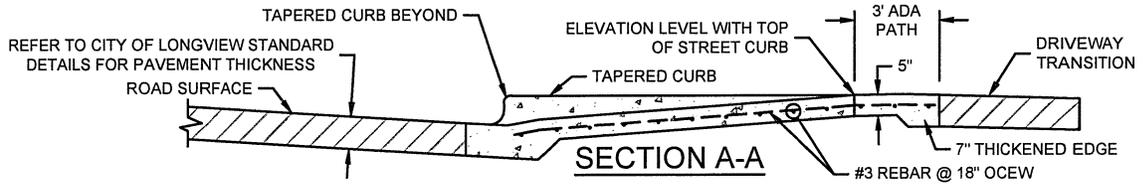
- NOTES:**
1. WHEN CONNECTING TO EXISTING CURB AND GUTTER: SAWCUT AND REMOVE EXISTING CURB AND GUTTER TO THE LIMITS REQUIRED BY THE CITY OF LONGVIEW. CONSTRUCT CURB AND GUTTER EXPANSION JOINTS PER CITY OF LONGVIEW STANDARD AT EACH CURB AND GUTTER TIE - IN.
 2. FOR NEW CURB AND GUTTER AT NEW DRIVEWAY, INSTALL EXPANSION JOINT IN CURB AND GUTTER AT 5 FEET FROM END OF EACH DRIVEWAY CURB RETURN OR AS APPROVED BY THE CITY OF LONGVIEW.
 3. ASPHALT THICKNESS SHOWN IS FOR RESIDENTIAL DRIVEWAYS. COMMERCIAL DRIVEWAYS SHALL HAVE A MINIMUM THICKNESS OF 5.5".
 4. ASPHALT DRIVEWAY APRONS AT CONCRETE STREETS ARE NOT ALLOWED.
 5. RESIDENTIAL LOCAL - MIN RADIUS = 5', MAX = 10'. RESIDENTIAL COLLECTOR - MIN RADIUS 8', MAX RADIUS 10'.
 6. MAX CURB CUT: LOCAL = 40', COLLECTOR = 46'

STREETS	LATEST REVISION: 3/21/2018	CITY OF LONGVIEW, TEXAS STANDARD DETAILS	ASPHALT DRIVEWAY AT ASPHALT STREET





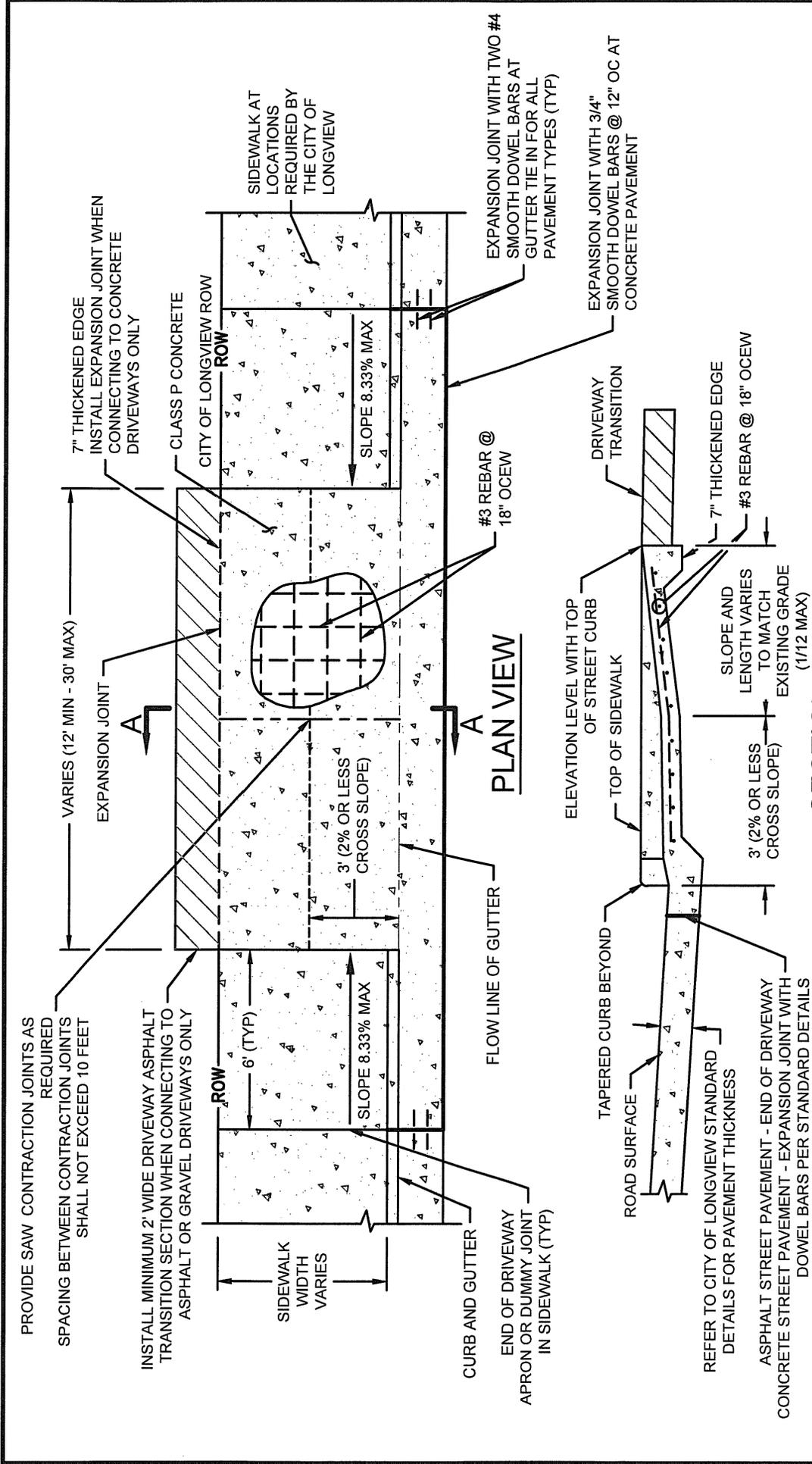
PLAN VIEW



SECTION A-A

- NOTES:**
1. WHEN CONNECTING TO EXISTING CURB AND GUTTER: SAWCUT AND REMOVE EXISTING CURB AND GUTTER TO THE LIMITS REQUIRED BY THE CITY OF LONGVIEW. CONSTRUCT CURB AND GUTTER EXPANSION JOINTS PER CITY OF LONGVIEW STANDARD AT EACH CURB AND GUTTER TIE - IN.
 2. FOR NEW CURB AND GUTTER AT NEW DRIVEWAY, INSTALL EXPANSION JOINT IN CURB AND GUTTER AT 5 FEET FROM END OF EACH DRIVEWAY CURB RETURN OR AS APPROVED BY THE CITY OF LONGVIEW.
 3. CONCRETE THICKNESS SHOWN IS FOR RESIDENTIAL DRIVEWAYS. COMMERCIAL DRIVEWAYS SHALL HAVE A MINIMUM THICKNESS OF 5.5".
 4. RESIDENTIAL LOCAL - MIN RADIUS = 5', MAX = 10'. RESIDENTIAL COLLECTOR - MIN RADIUS 8', MAX RADIUS 10'.
 5. MAX CURB CUT: LOCAL = 40', COLLECTOR = 46'

STREETS	CITY OF LONGVIEW, TEXAS STANDARD DETAILS	CONCRETE DRIVEWAY AT ASPHALT STREET



PROVIDE SAW CONTRACTION JOINTS AS REQUIRED
 SPACING BETWEEN CONTRACTION JOINTS SHALL NOT EXCEED 10 FEET

INSTALL MINIMUM 2' WIDE DRIVEWAY ASPHALT TRANSITION SECTION WHEN CONNECTING TO ASPHALT OR GRAVEL DRIVEWAYS ONLY

SIDEWALK WIDTH VARIES

6' (TYP)

SLOPE 8.33% MAX

EXPANSION JOINT

VARIABLES (12' MIN - 30' MAX)

7" THICKENED EDGE
 INSTALL EXPANSION JOINT WHEN CONNECTING TO CONCRETE DRIVEWAYS ONLY

CITY OF LONGVIEW ROW

SIDEWALK AT LOCATIONS REQUIRED BY THE CITY OF LONGVIEW

SLOPE 8.33% MAX

EXPANSION JOINT WITH TWO #4 SMOOTH DOWEL BARS AT GUTTER TIE IN FOR ALL PAVEMENT TYPES (TYP)

EXPANSION JOINT WITH 3/4" SMOOTH DOWEL BARS @ 12" OC AT CONCRETE PAVEMENT

#3 REBAR @ 18" OCEW

DRIVEWAY TRANSITION

7" THICKENED EDGE

#3 REBAR @ 18" OCEW

SLOPE AND LENGTH VARIES TO MATCH EXISTING GRADE (1/12 MAX)

3' (2% OR LESS CROSS SLOPE)

ELEVATION LEVEL WITH TOP OF STREET CURB

TOP OF SIDEWALK

FLOW LINE OF GUTTER

CURB AND GUTTER

END OF DRIVEWAY APRON OR DUMMY JOINT IN SIDEWALK (TYP)

TAPERED CURB BEYOND ROAD SURFACE

REFER TO CITY OF LONGVIEW STANDARD DETAILS FOR PAVEMENT THICKNESS

ASPHALT STREET PAVEMENT - END OF DRIVEWAY

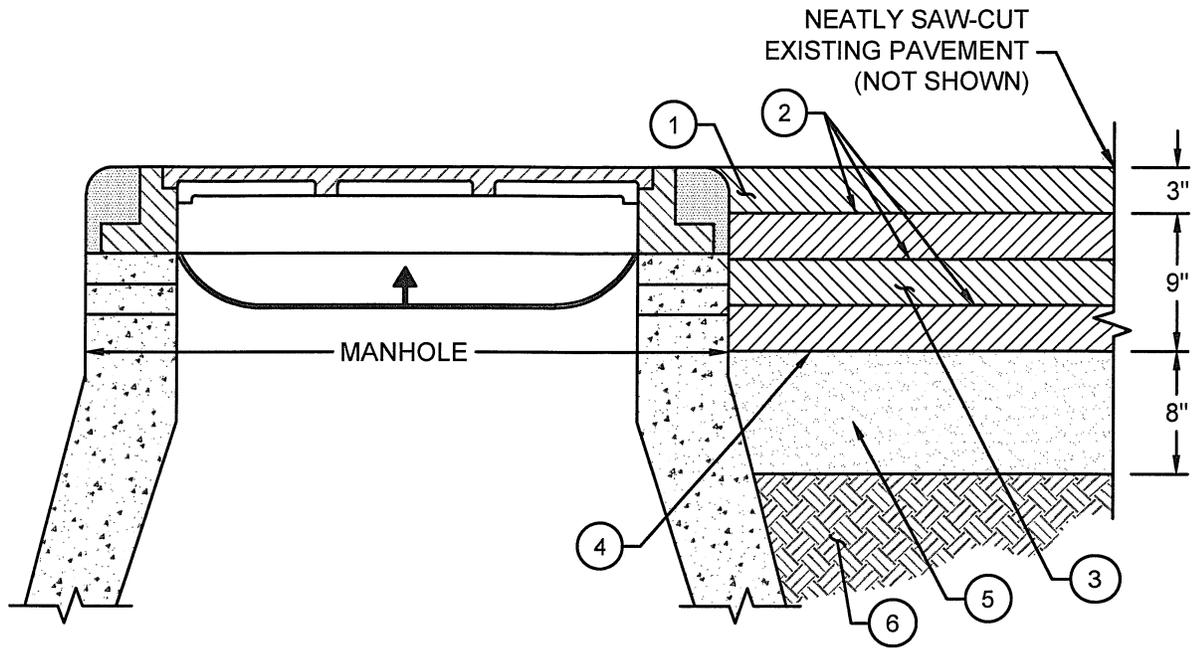
CONCRETE STREET PAVEMENT - EXPANSION JOINT WITH DOWEL BARS PER STANDARD DETAILS

SECTION A-A

NOTES:

1. WHEN CONNECTING TO EXISTING CURB AND GUTTER: SAWCUT AND REMOVE EXISTING CURB AND GUTTER TO THE LIMITS REQUIRED BY THE CITY OF LONGVIEW. CONSTRUCT CURB AND GUTTER EXPANSION JOINTS PER CITY OF LONGVIEW STANDARD AT EACH CURB AND GUTTER TIE - IN.
2. FOR NEW CURB AND GUTTER AT NEW DRIVEWAY, INSTALL EXPANSION JOINT IN CURB AND GUTTER AT END OF EACH DRIVEWAY FLARE OR AS APPROVED BY THE CITY OF LONGVIEW.
3. CONCRETE THICKNESS SHOWN IS FOR RESIDENTIAL DRIVEWAYS. COMMERCIAL DRIVEWAYS SHALL HAVE A MINIMUM THICKNESS OF 6".

CITY OF LONGVIEW, TEXAS STANDARD DETAILS		CONCRETE DRIVEWAY
STREETS	LATEST REVISION:	
	7/29/2020	



MARK

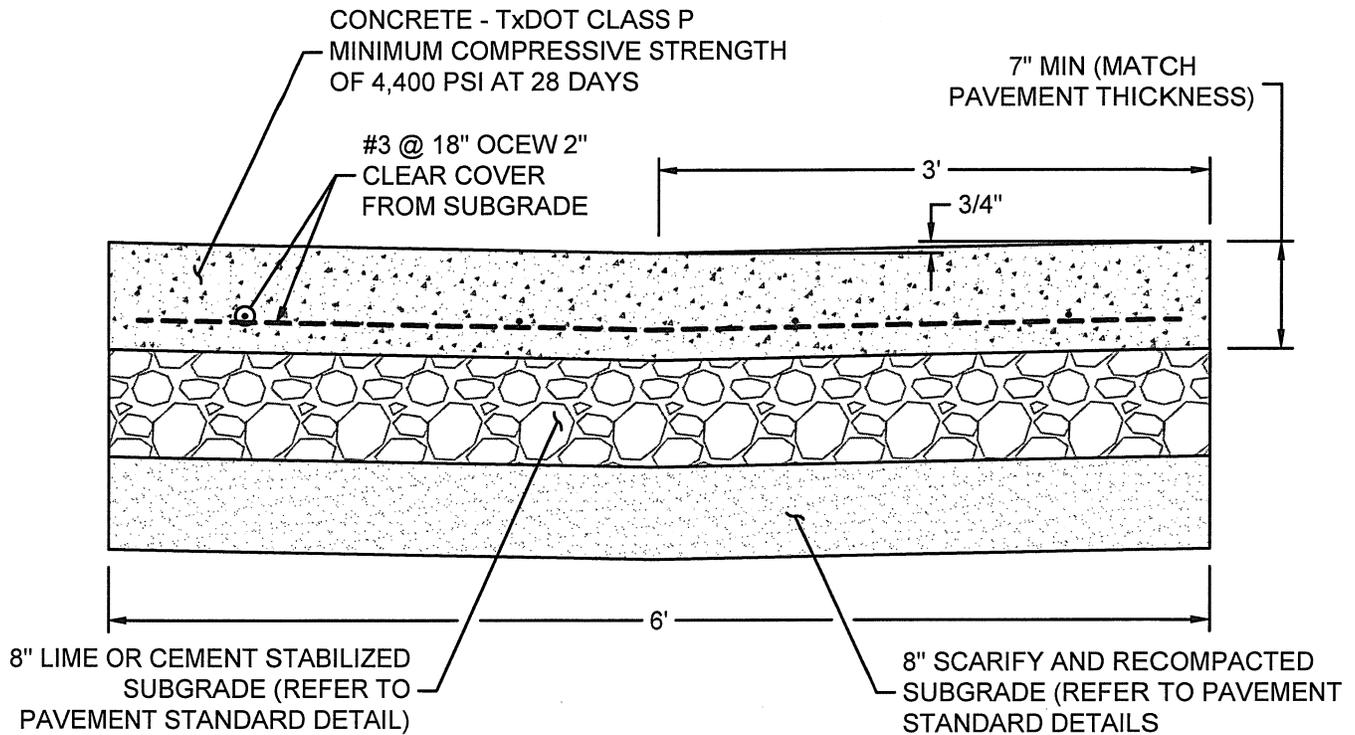
DESCRIPTION

- ① 3" OF HMAC, TXDOT ITEM 340, TYPE C, COMPACTED USING AIR VOID CONTROL METHOD.
- ② AR-4000 TACK COAT MECHANICALLY APPLIED AT A MAXIMUM RATE OF 0.25 GALLONS PER SQUARE YARD. RATE OF APPLICATION SHALL BE ADJUSTED IN THE FIELD TO PROVIDE UNIFORM COVERAGE WITHOUT RUNOFF. THE RATE SHALL BE APPROVED BY THE CITY OF LONGVIEW, BASED UPON FIELD TESTS. TACK COAT SHALL BE APPLIED BETWEEN ALL LAYERS OF HMAC.
- ③ 9" OF HMAC, TXDOT ITEM 340, TYPE B, INSTALLED IN THREE 3" LIFTS AND COMPACTED USING AIR VOID CONTROL METHOD. A TACK COAT SHALL BE APPLIED BETWEEN THE THREE LIFTS.
- ④ MC-30 PRIME COAT APPLIED AT A MAXIMUM RATE OF 0.25 GALLONS PER SQUARE YARD. RATE OF APPLICATION SHALL BE ADJUSTED IN THE FIELD TO PROVIDE UNIFORM COVERAGE WITHOUT RUNOFF. THE RATE SHALL BE APPROVED BY THE CITY OF LONGVIEW, BASED UPON FIELD TESTS.
- ⑤ 8" CEMENT TREATED SUBGRADE INSTALLED IN ACCORDANCE WITH TXDOT ITEM 275. TYPE I, TYPE II, OR TYPE I/III PORTLAND CEMENT SHALL BE ADDED TO THE SUBGRADE AFTER REMOVAL OF ALL DEBRIS. THE CEMENT APPLICATION RATE SHALL BE 4% (30 LBS PER SQUARE YARD). THE PULVERIZATION REQUIREMENT SHALL BE 60% PASSING THE No. 4 SIEVE. THE FINAL COMPACTION SHALL BE A MINIMUM OF 95%± OF STANDARD PROCTOR (ASTM D-698) AT A MOISTURE CONTENT OF -4% TO +1% OF OPTIMUM MOISTURE.
- ⑥ BACKFILL EXCAVATION WITH SELECT FILL (TYP S3). COMPACT IN 8" HORIZONTAL LIFTS TO 95% OF MAXIMUM DENSITY WITHIN 2% OF OPTIMUM MOISTURE (ASTM D-698)

NOTE:

CONCRETE STREETS -TOP 12" SHALL BE TxDOT CLASS P CONCRETE WITH A MINIMUM COMPRESSIVE OF 4,400 PSI AT 28 DAYS. INSTALL EXPANSION JOINTS ON ALL SIDES OF CONCRETE PAVEMENT REPAIR WITH #8 x 18" SMOOTH DOWELS DRILL AND EPOXY AT 12" OC AT CENTER OF PAVEMENT. GREASE AND GREASE CAPS ON DOWELS INSIDE CONCRETE PAVEMENT REPAIR.

<p>STREETS</p> <hr/> <p>LATEST REVISION: 3/20/2018</p>	<p>CITY OF LONGVIEW, TEXAS</p> <p>STANDARD DETAILS</p>	<p>PAVEMENT REPAIR AT</p> <p>MANHOLE</p>
--	--	--



NOTES:

1. REINFORCEMENT SHALL BE CONTINUOUS WITH MINIMUM 30" LAP AT BARS.
2. CONCRETE PAVEMENT:
 - a. MATCH JOINT LOCATIONS AND TYPES FOR CONCRETE PAVEMENTS.
 - b. AT CONCRETE PAVEMENT TRANSITIONS AND INTERSECTIONS, INSTALL EXPANSION JOINTS WITH #8 x 18" SMOOTH DOWEL BARS @ 12" OC. CENTERED IN PAVEMENT. REFER TO PAVEMENT STANDARD DETAILS.
3. FOR ASPHALT PAVEMENT:
 - a. INSTALL CONTRACTION JOINT AT CENTERLINE AND OFFSET NO MORE THAN 15 FEET OCEW.

	STREETS LATEST REVISION: 3/20/2018	CITY OF LONGVIEW, TEXAS STANDARD DETAILS	CONCRETE VALLEY GUTTER
--	--	---	------------------------