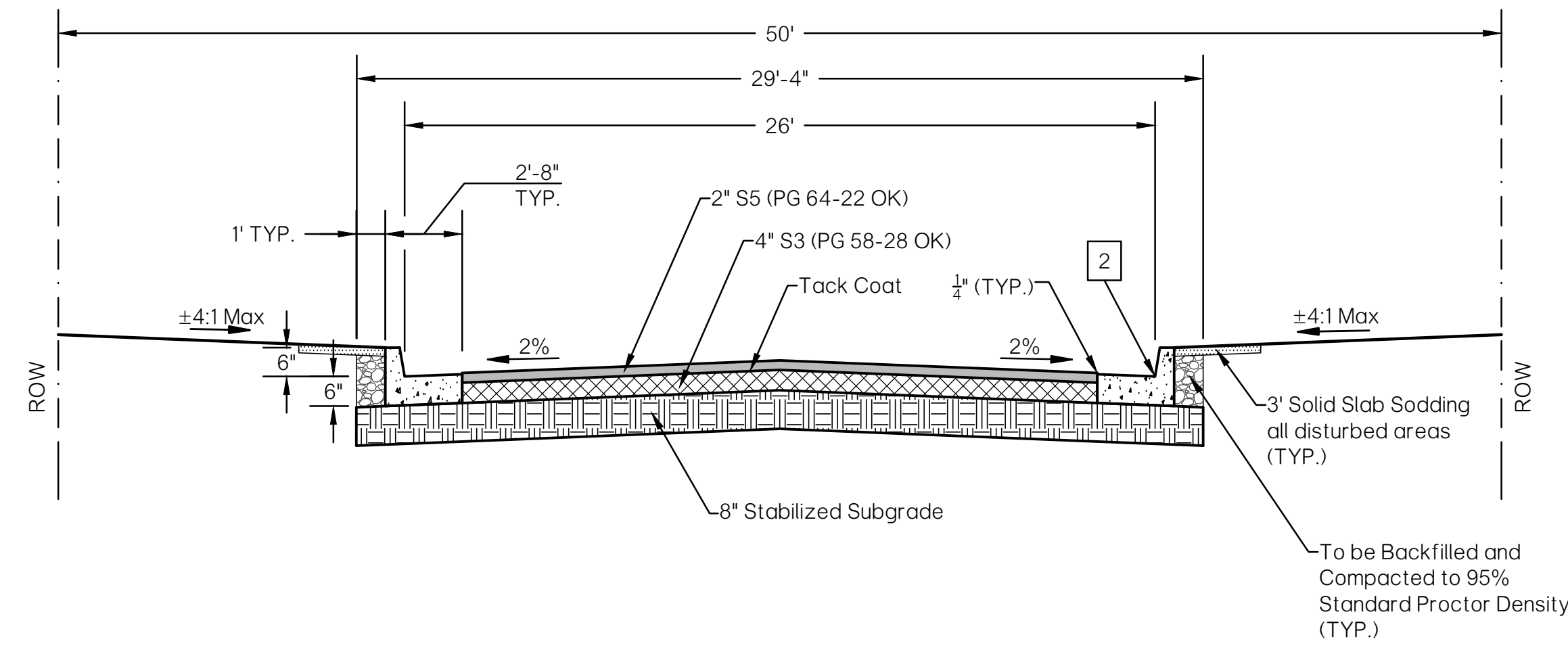
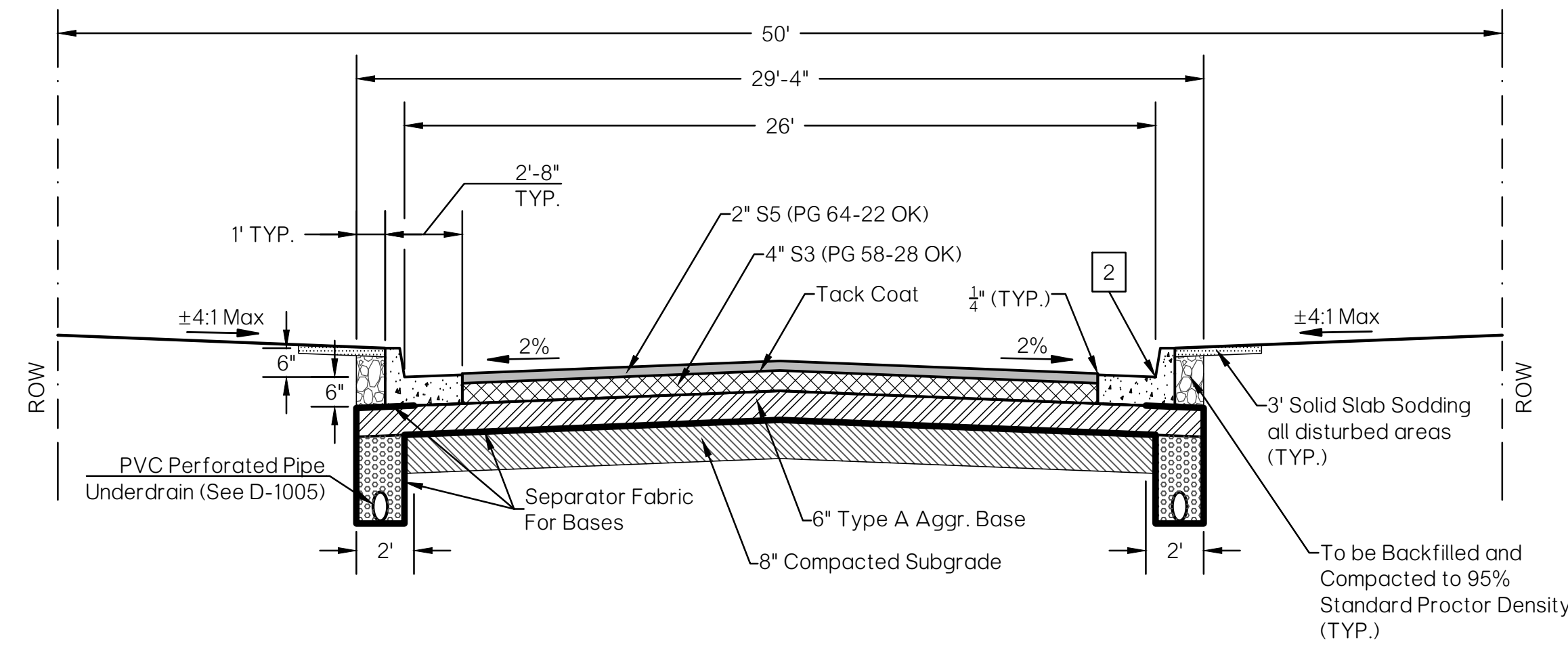


TYPICAL SECTION
LOCAL RESIDENTIAL RURAL ROADWAY
R-A and R-A2 Zoning Districts
• 100 •

LEGEND	
	S5 (PG 64-22 OK)
	S3 (PG 58-28 OK)
	P.C. Concrete
	Stabilized Subgrade or Type A Aggregate Base
	Type A Aggregate Base (95% SPD Compaction)
	Compacted Subgrade
	Backfill
	Sodding
	Cement Treated Base or S3 (PG 58-28 OK)
	Leveling Course



TYPICAL SECTION
26' HOT MIX ASPHALT PAVING
(STABILIZED SUBGRADE)
LOCAL RESIDENTIAL
• 101 •



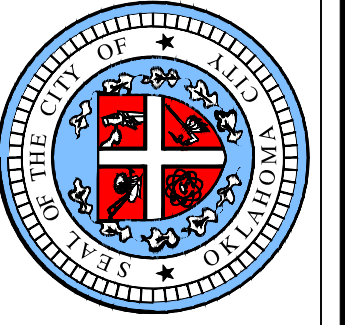
TYPICAL SECTION
26' HOT MIX ASPHALT PAVING
(AGGREGATE BASE)
LOCAL RESIDENTIAL
• 102 •

- 1 Ribbon Curb (See Detail D-200C)
- 2 Concrete Curb and Gutter Type 1, 2 or 3 (See Detail D-200C)

RESIDENTIAL ASPHALT NOTE:
 1. S3 BASE COURSES SHALL USE BINDER GRADE PG 58-28 OK WITH A MAXIMUM OF 15% RECLAIMED ASPHALT PAVEMENT (RAP).
 2. S5 SURFACE COURSE SHALL USE BINDER GRADE PG 64-22 OK WITH A VIRGIN MIX (NO RAP).
 3. DESIGN MIXES, INCLUDING ACCEPTABLE TEST RESULTS, INDICATING A FINAL PERFORMANCE GRADE OF PG 64-22 OK MAY BE REQUIRED PRIOR TO APPROVAL OF A MIX FOR USE IN THE CITY OF OKLAHOMA CITY.

NOTE: Edge Drain Location to be Determined by the City Engineer. Refer to Pavement Edge Drain Sheet for Details. (See Detail Number D-1005.)

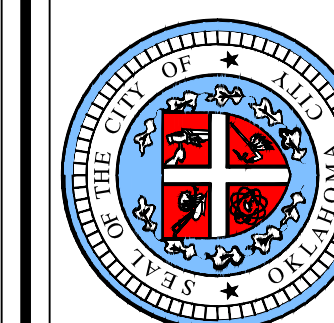
The City of
Oklahoma City
Public Works Department
Engineering Division



APPROVED BY:
ERIC J. WENGER, P.E.
CITY ENGINEER
DATE: 2/22/2023
DRAWN: OKC-PW-SRB
DATE: 3/9/2023

STANDARD TYPICAL SECTIONS
ASPHALTIC PAVING

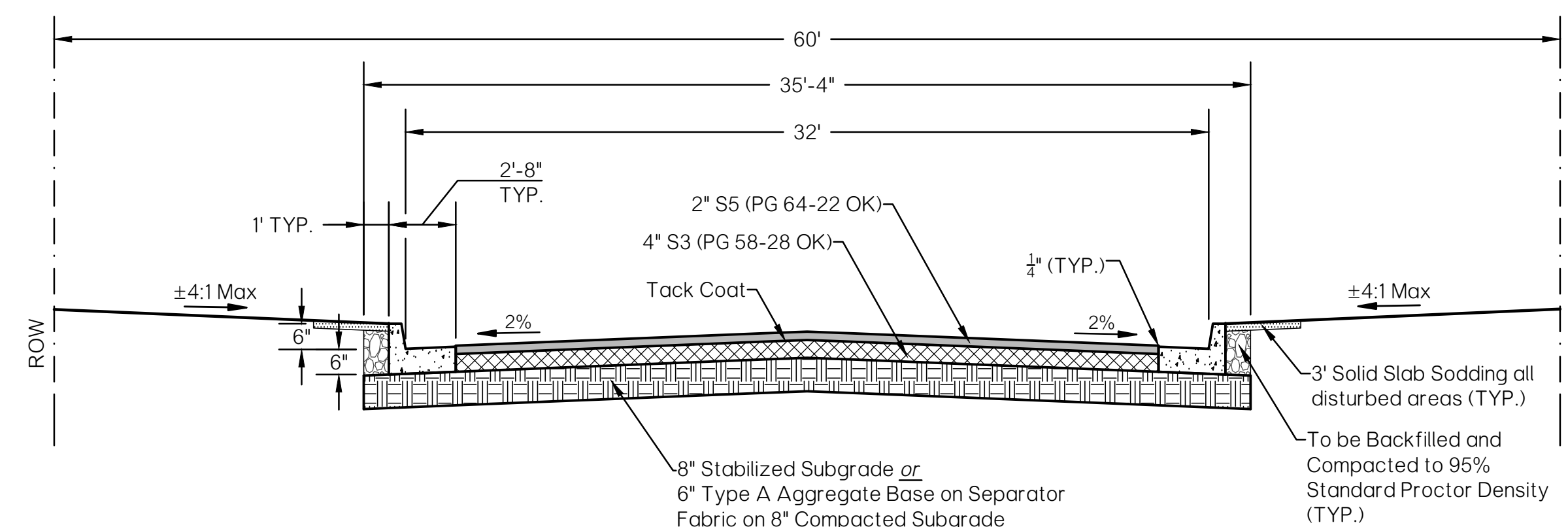
Detail Number
D-100A



APPROVED BY: _____ DATE: _____
ERIC J. WENGER, P.E.
CITY ENGINEER
DRAWN: OKC-PW-SRB
DATE: 3/9/2023

**STANDARD TYPICAL SECTIONS
ASPHALTIC PAVING**

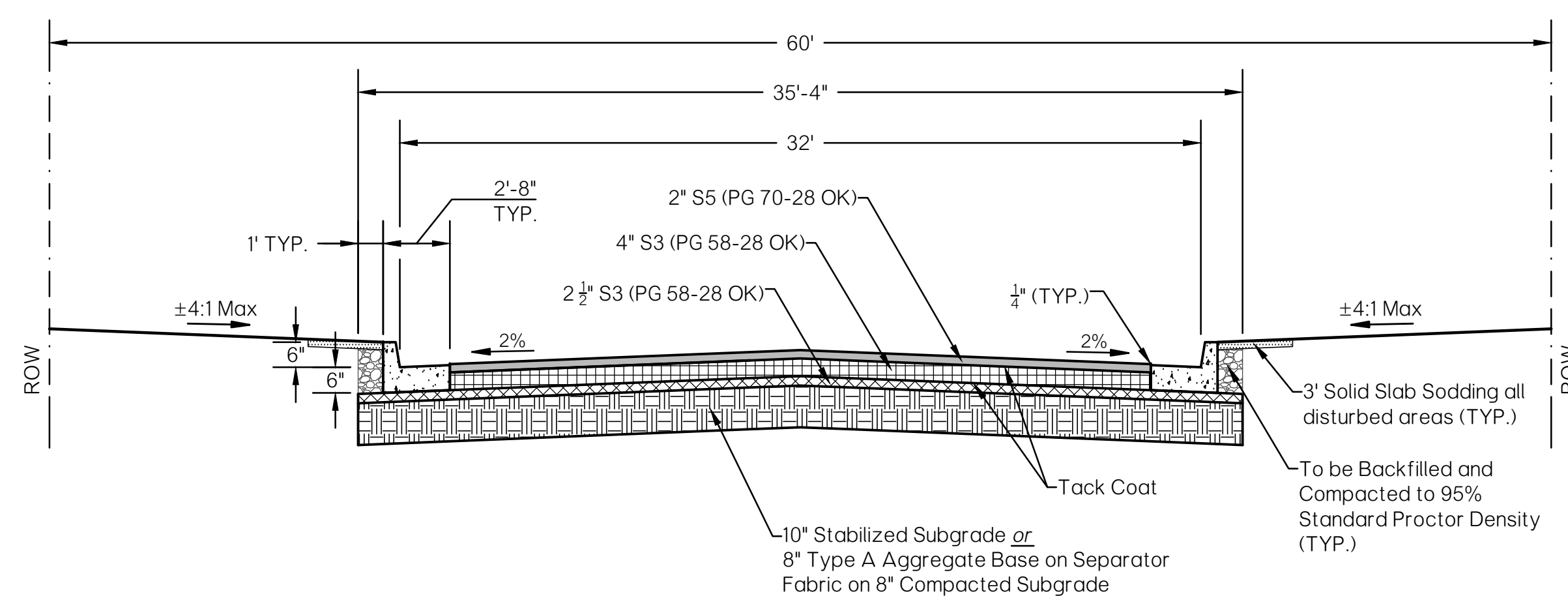
Detail Number
D-100B



TYPICAL SECTION
32' HOT MIX ASPHALT PAVING
RESIDENTIAL COLLECTOR
• 110 •

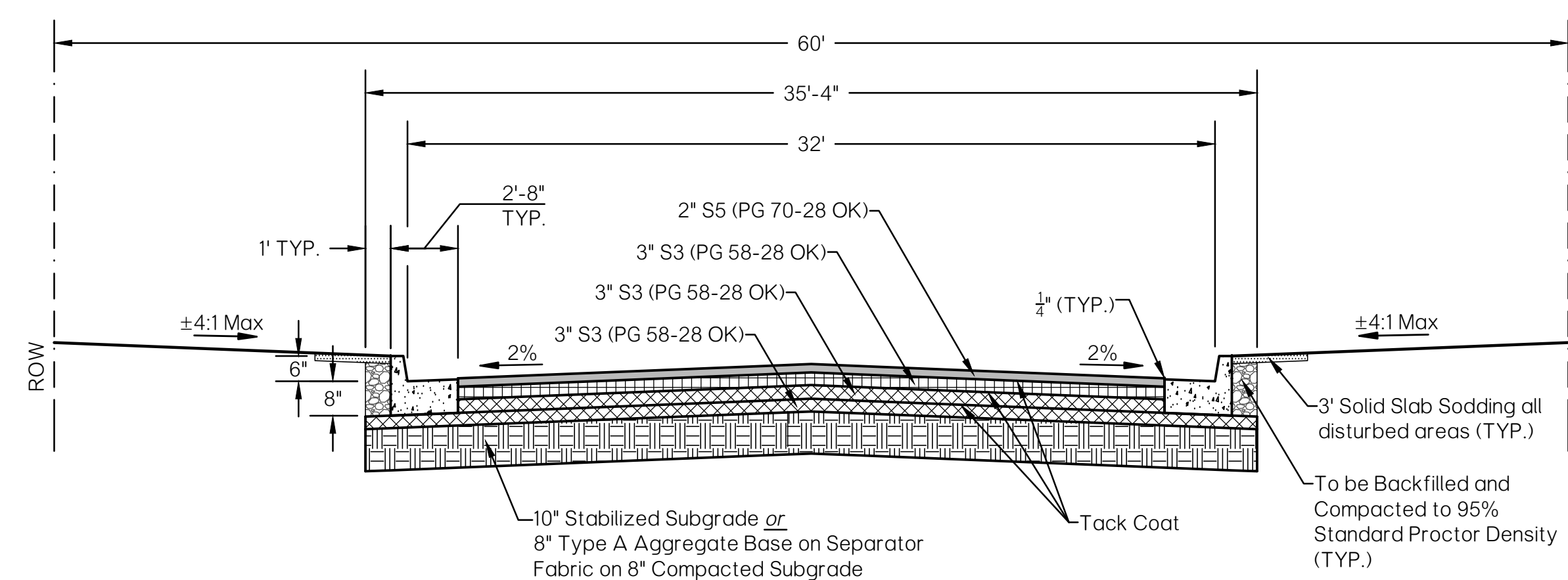
RESIDENTIAL TYPICAL NOTE:
1. S3 BASE COURSES AND S5 SURFACE COURSES SHALL USE BINDER GRADE PG 58-28 OK WITH A MAXIMUM OF 15% RECLAIMED ASPHALT PAVEMENT (RAP).
2. S5 SURFACE COURSE SHALL USE BINDER GRADE PG 64-22 OK WITH A VIRGIN MIX (NO RAP).
3. COURSE DESIGN MIXES, INCLUDING ACCEPTABLE TEST RESULTS, INDICATING A FINAL PERFORMANCE GRADE OF PG 64-22 OK MAY BE REQUIRED PRIOR TO APPROVAL OF A MIX FOR USE IN THE CITY OF OKLAHOMA CITY.

LEGEND	
	S5 (PG 70-28 OK) or S5 (PG 64-22 OK)
	S3 (PG 64-22 OK) or S3 (PG 58-28 OK)
	S3 (PG 58-28 OK)
	P.C. Concrete
	Stabilized Subgrade or Type A Aggregate Base
	Type A Aggregate Base (95% SPD Compaction)
	Compacted Subgrade
	Backfill
	Sodding
	Cement Treated Base or S3 (PG 58-28 OK)
	Leveling Course

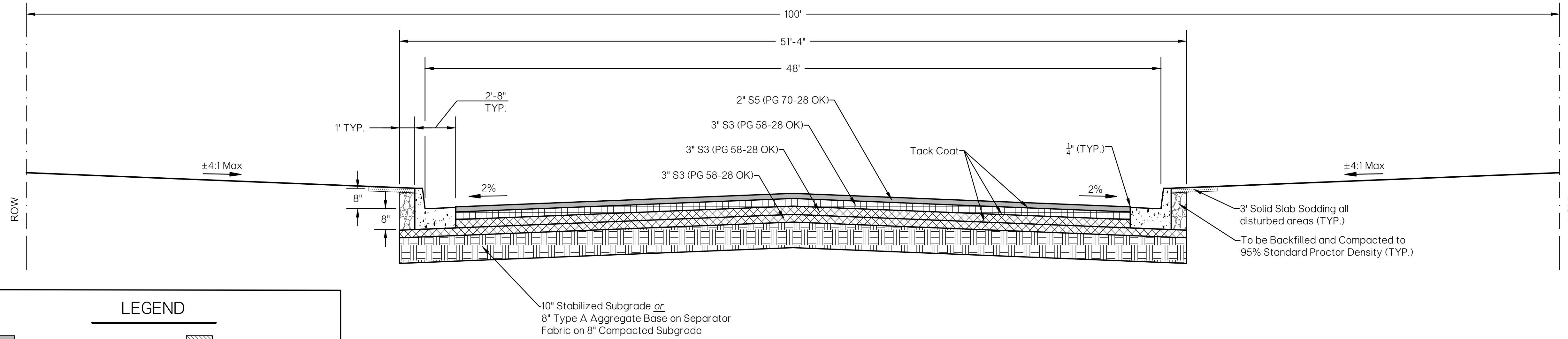


TYPICAL SECTION
32' HOT MIX ASPHALT PAVING
COMMERCIAL
• 111 •

COMMERCIAL/INDUSTRIAL TYPICAL NOTE:
1. S3 BASE COURSES SHALL USE BINDER GRADE PG 58-28 OK WITH A MAXIMUM OF 15% RECLAIMED ASPHALT PAVEMENT (RAP).
2. S5 SURFACE COURSE SHALL USE BINDER GRADE PG 70-28 OK WITH A VIRGIN MIX (NO RAP).
3. COURSE DESIGN MIXES, INCLUDING ACCEPTABLE TEST RESULTS, INDICATING A FINAL PERFORMANCE GRADE OF PG 64-22 OK MAY BE REQUIRED PRIOR TO APPROVAL OF A MIX FOR USE IN THE CITY OF OKLAHOMA CITY.

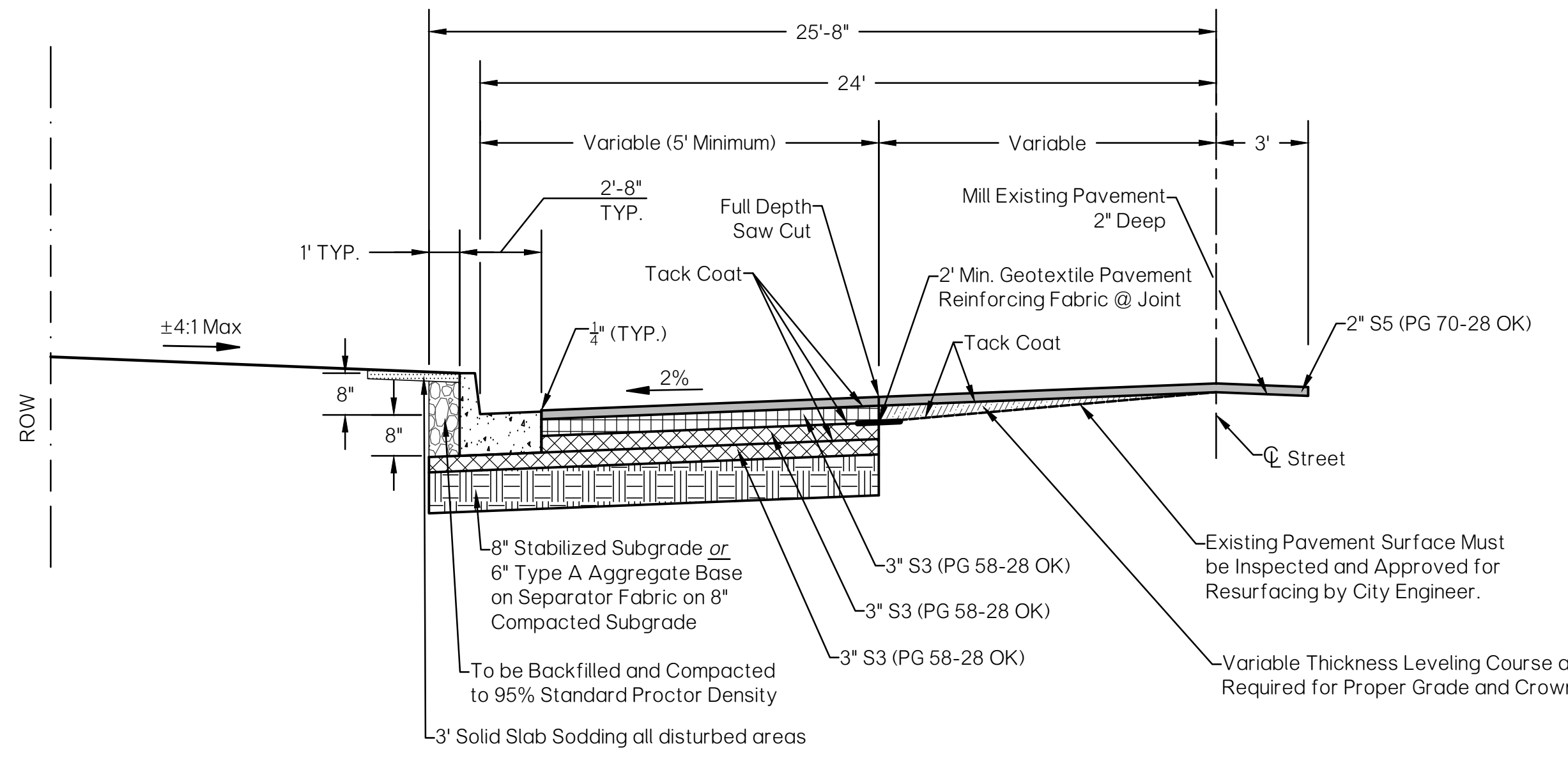


TYPICAL SECTION
32' HOT MIX ASPHALT PAVING
INDUSTRIAL
• 112 •

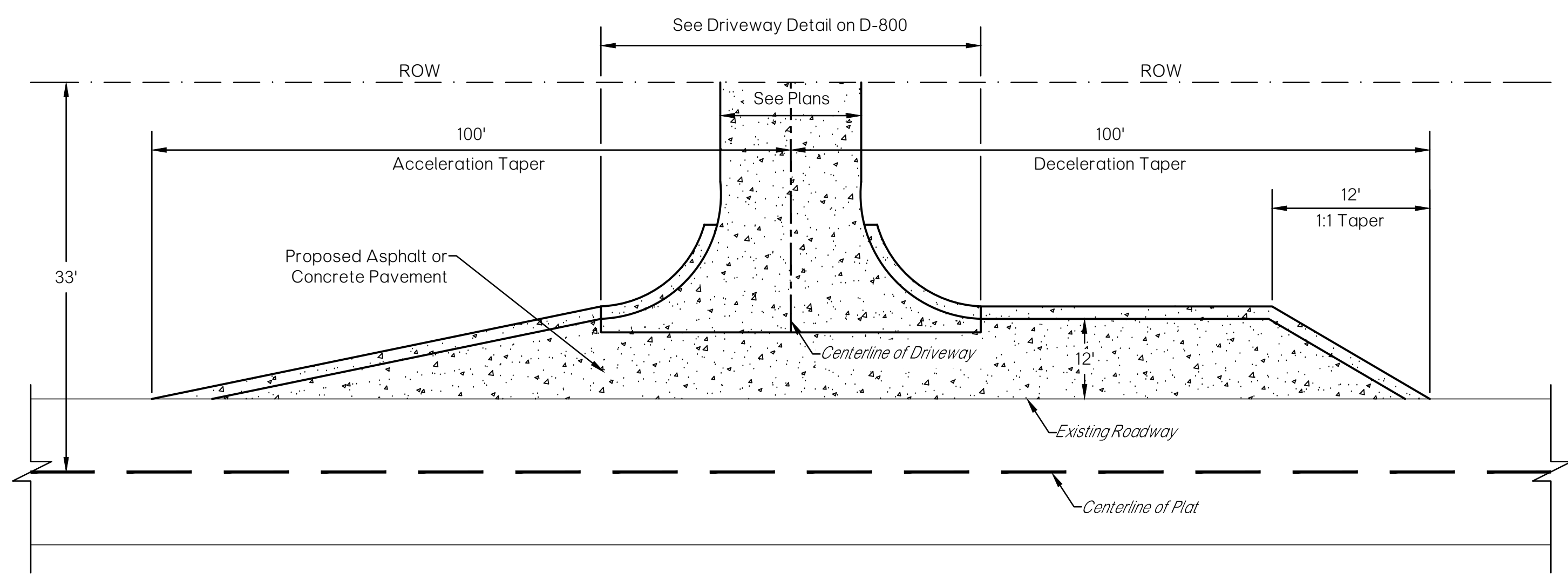


TYPICAL SECTION
48' HOT MIX ASPHALT PAVING
• 120 •

LEGEND			
	S5 (PG 70-28 OK)		Compacted Subgrade
	S3 (PG 64-22 OK) or S3 (PG 58-28 OK)		Backfill
	S3 (PG 58-28 OK)		Sodding
	P.C. Concrete		Cement Treated Base or S3 (PG 58-28 OK)
	Stabilized Subgrade or Type A Aggregate Base		Leveling Course
	Type A Aggregate Base (95% SPD Compaction)		



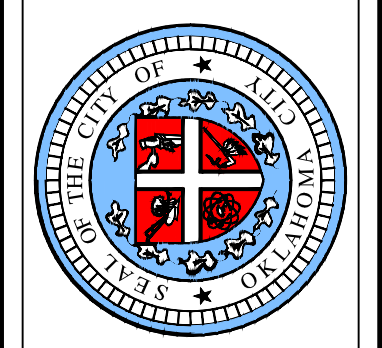
TYPICAL SECTION
VARIABLE WIDENING HOT MIX ASPHALT PAVING
• 130 •



TYPICAL SECTION
RURAL 2-LANE DRIVEWAY ACCESS
• 140 •

ARTERIAL/WIDENING TYPICAL NOTE:
 1. S3 BASE COURSES SHALL USE BINDER GRADE PG 58-28 OK WITH A MAXIMUM OF 15% RECLAIMED ASPHALT PAVEMENT (RAP).
 2. S5 SURFACE COURSE SHALL USE BINDER GRADE PG 70-28 OK WITH A VIRGIN MIX (NO RAP).
 3. COURSE DESIGN MIXES, INCLUDING ACCEPTABLE TEST RESULTS, INDICATING A FINAL PERFORMANCE GRADE OF PG 64-22 OK MAY BE REQUIRED PRIOR TO APPROVAL OF A MIX FOR USE IN THE CITY OF OKLAHOMA CITY.

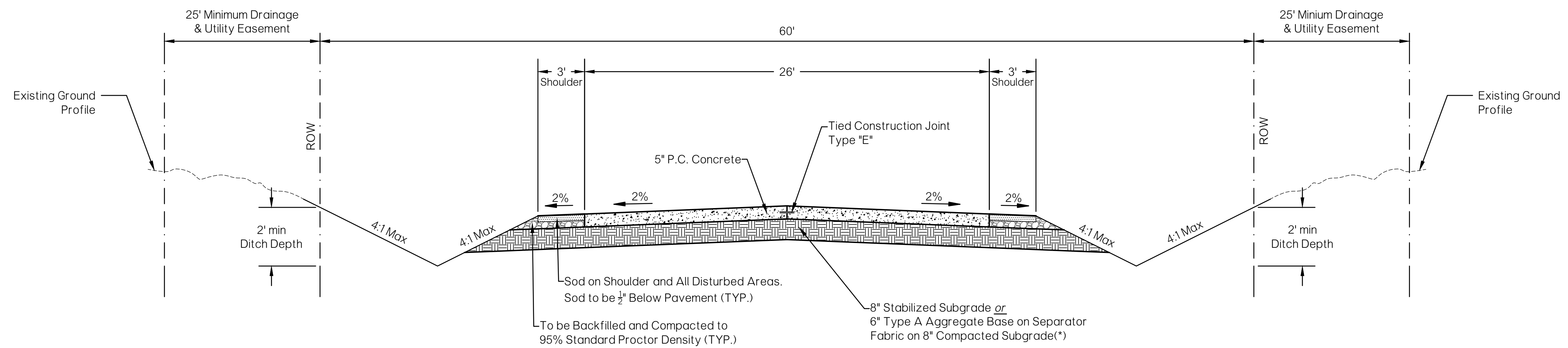
The City of
Oklahoma City
Public Works Department
Engineering Division



APPROVED BY: _____ DATE: _____
 ERIC J. WENGER, P.E.
 CITY ENGINEER
 DRAWN: OKC-PW-SRB
 DATE: 3/9/2023

**STANDARD TYPICAL SECTIONS
ASPHALTIC PAVING**

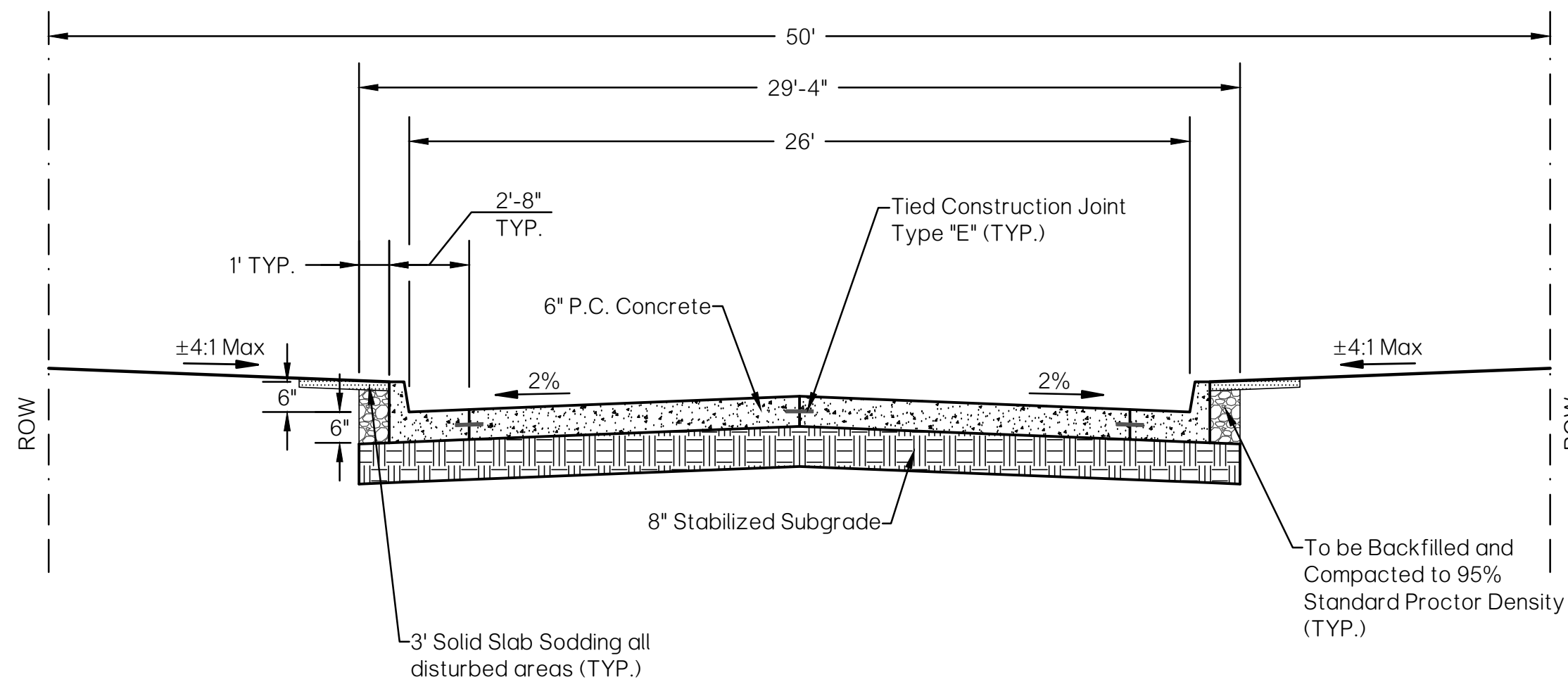
Detail Number
D-100C



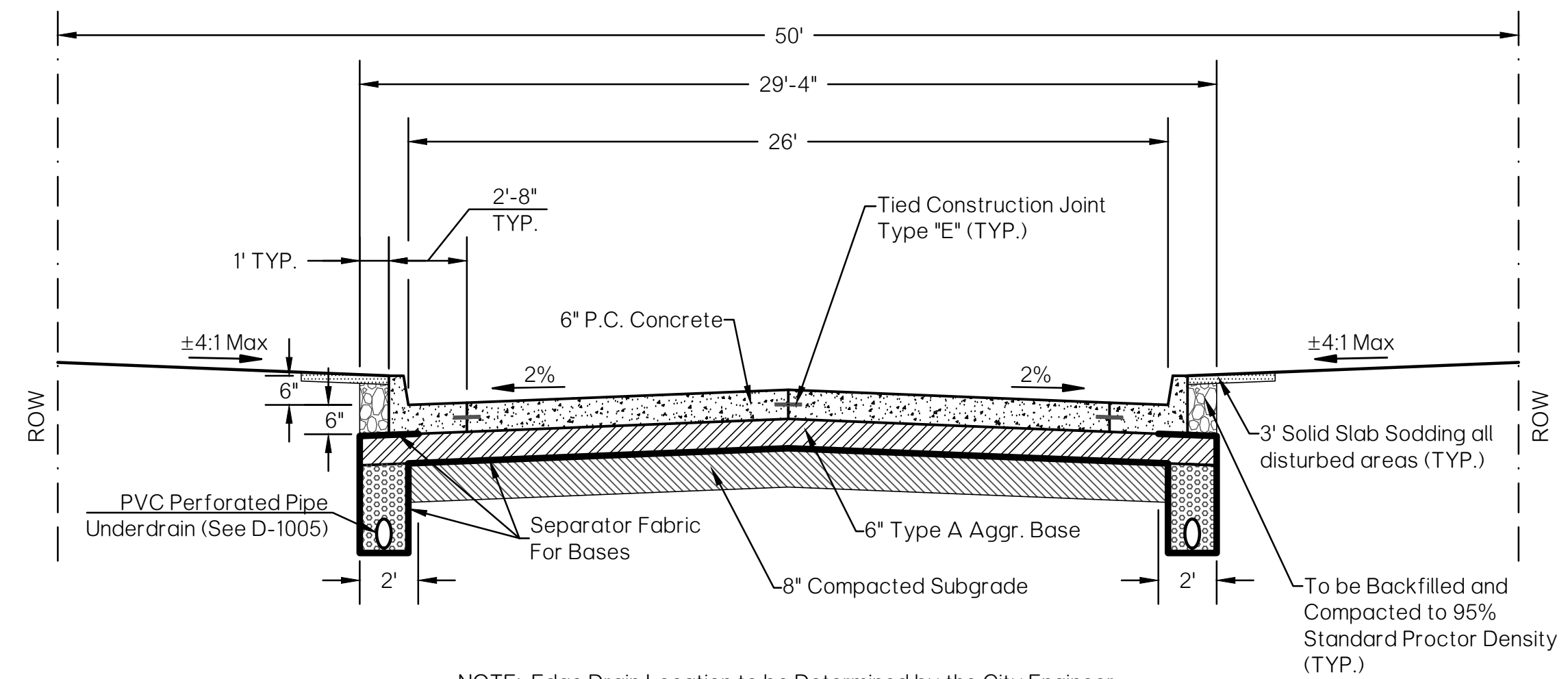
(*) Aggregate Base shall extend to edge of ditch and planed on Separator Fabric for Bases.

LEGEND	
	S5 (PG 70-28 OK) or S5 (PG 64-22 OK)
	S3 (PG 58-28 OK)
	P.C. Concrete
	Stabilized Subgrade or Type A Aggregate Base
	Type A Aggregate Base (95% SPD Compaction)
	Compacted Subgrade
	Backfill
	Sodding
	Cement Treated Base or S3 (PG 58-28 OK)
	Leveling Course

TYPICAL SECTION
LOCAL RESIDENTIAL RURAL ROADWAY
R-A and R-A2 Zoning Districts
• 200 •



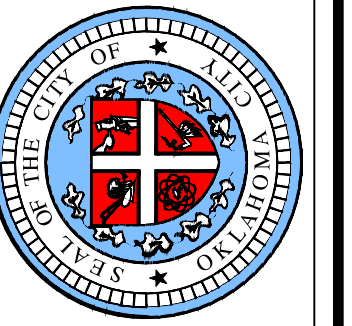
TYPICAL SECTION
26' P.C. CONCRETE PAVING
(STABILIZED SUBGRADE)
LOCAL RESIDENTIAL
• 201 •



NOTE: Edge Drain Location to be Determined by the City Engineer.
Refer to Pavement Edge Drain Sheet for Details.
(See Detail Number D-1005.)

TYPICAL SECTION
26' P.C. CONCRETE PAVING
(AGGREGATE BASE)
LOCAL RESIDENTIAL
• 202 •

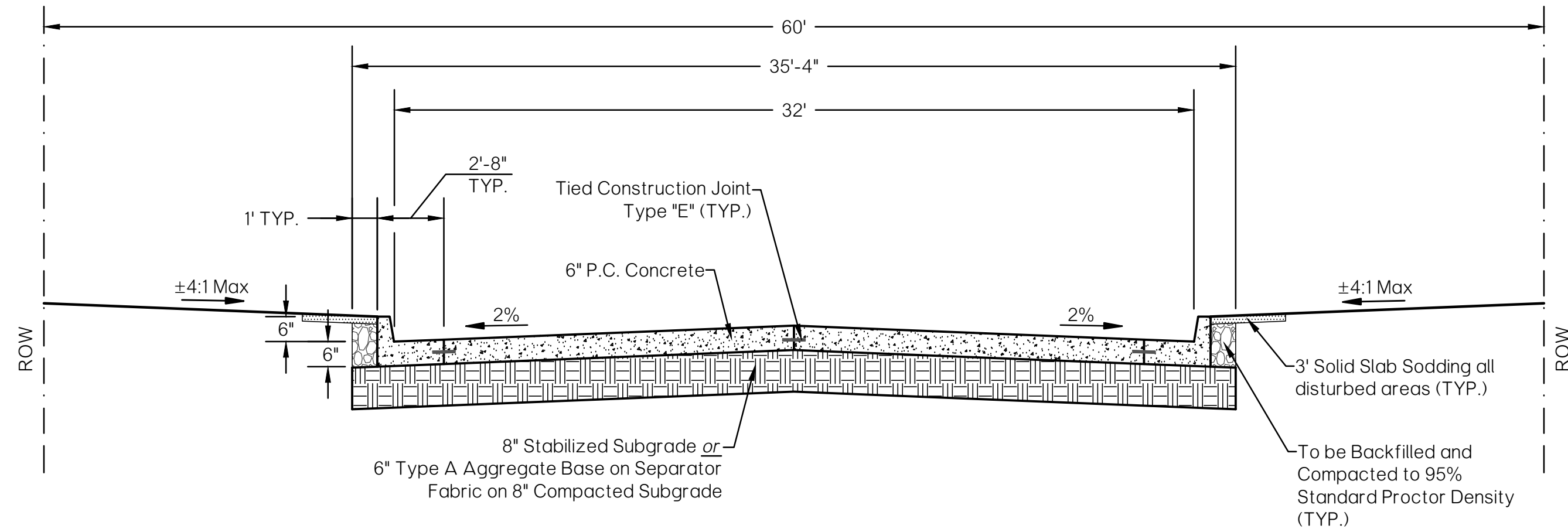
The City of
Oklahoma City
Public Works Department
Engineering Division



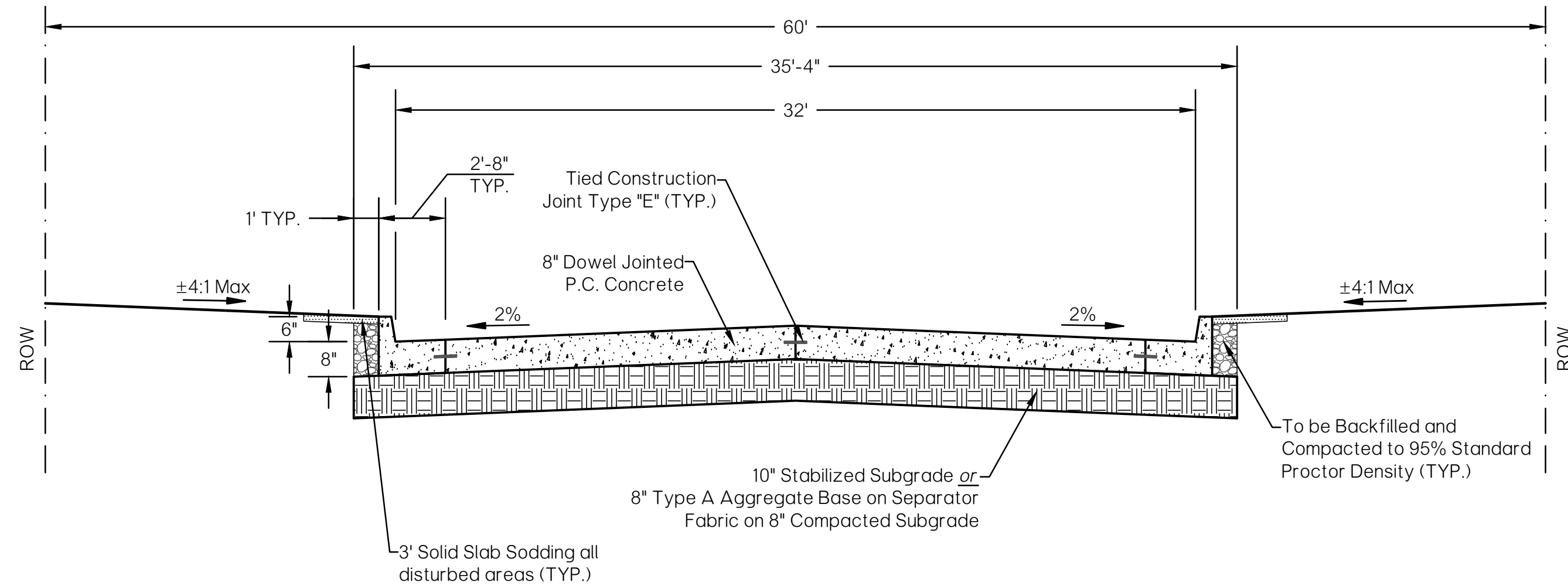
APPROVED BY: _____ DATE: _____
ERIC J. WENGER, P.E.
CITY ENGINEER
DRAWN: OKC-PW-SRB
DATE: 3/9/2023

STANDARD TYPICAL SECTIONS
P.C. CONCRETE PAVING

Detail Number
D-200A

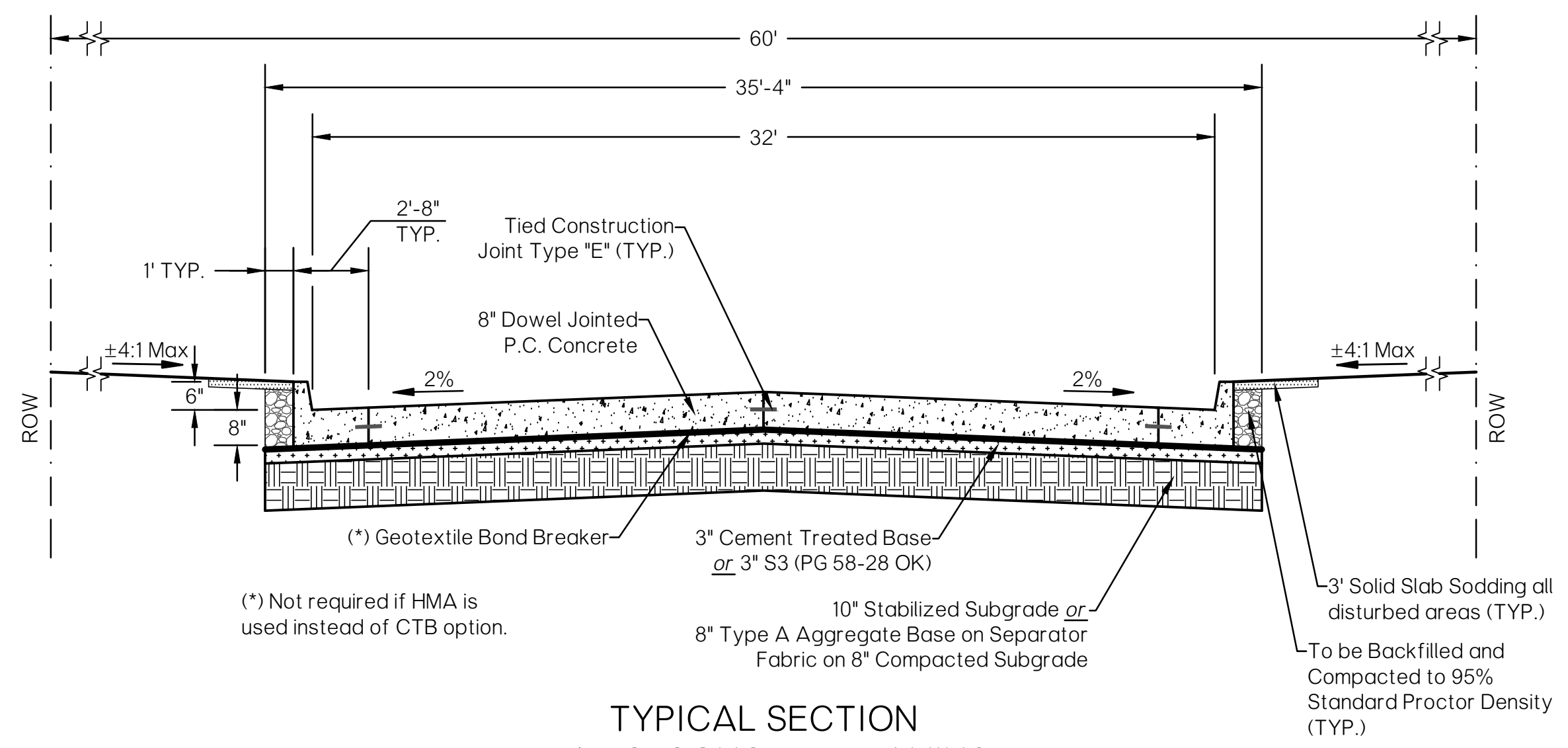


TYPICAL SECTION
32' P.C. CONCRETE PAVING
RESIDENTIAL COLLECTOR
• 210 •

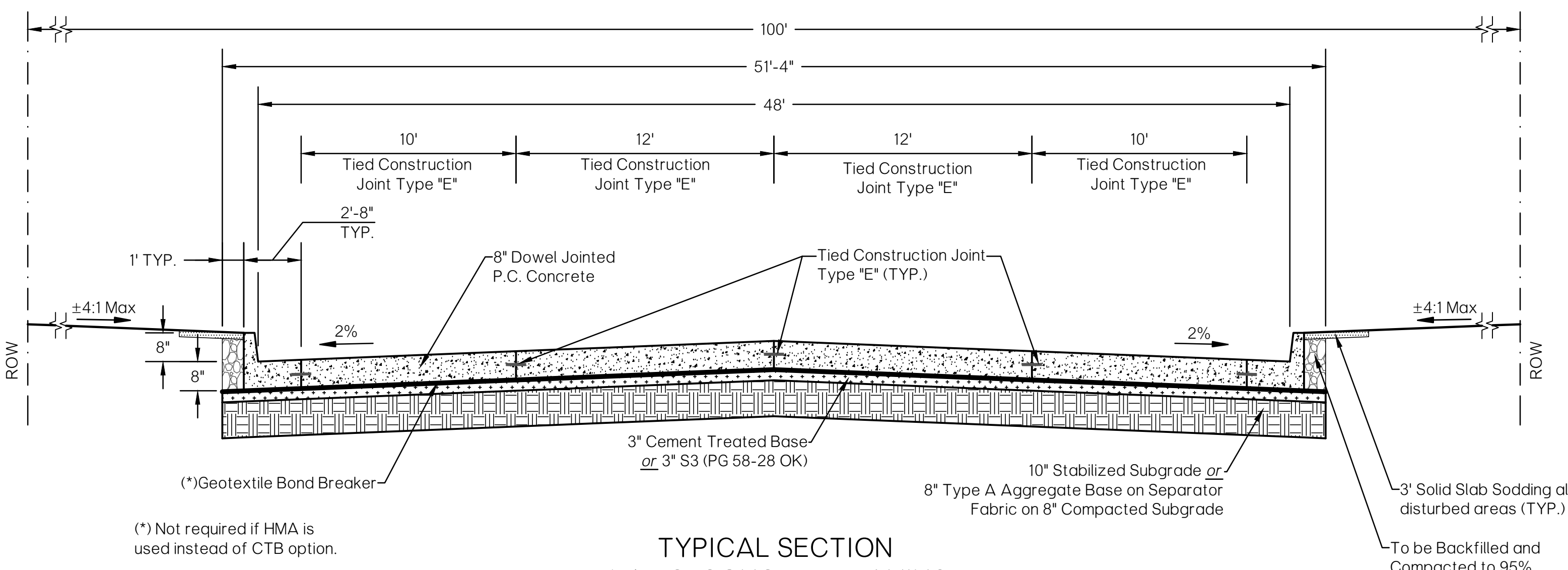


TYPICAL SECTION
32' P.C. CONCRETE PAVING
COMMERCIAL
• 211 •

LEGEND	
	S5 (PG 70-28 OK) or S5 (PG 64-22 OK)
	S3 (PG 58-28 OK)
	P.C. Concrete
	Stabilized Subgrade or Type A Aggregate Base
	Type A Aggregate Base (95% SPD Compaction)
	Compacted Subgrade
	Backfill
	Sodding
	Cement Treated Base or S3 (PG 58-28 OK)
	Leveling Course

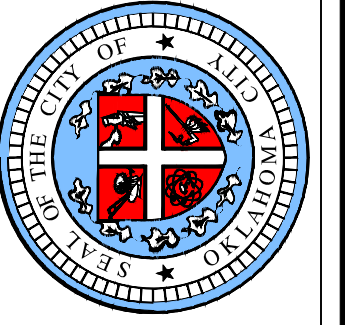


TYPICAL SECTION
32' P.C. CONCRETE PAVING
INDUSTRIAL
• 212 •



TYPICAL SECTION
48' P.C. CONCRETE PAVING
ARTERIAL
• 220 •

The City of
Oklahoma City
Public Works Department
Engineering Division

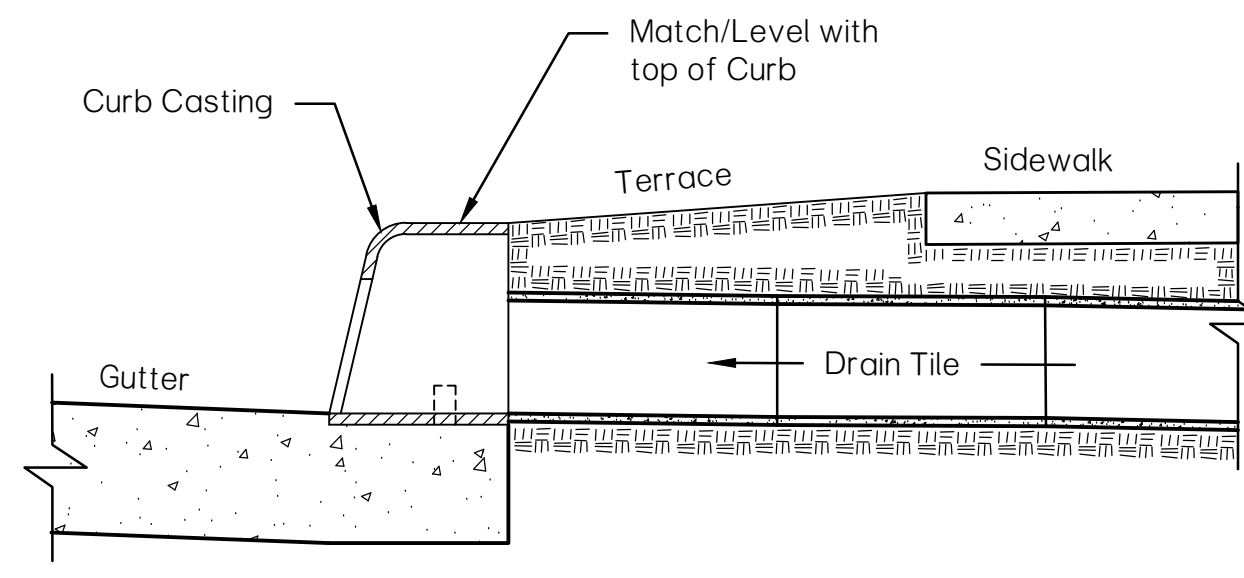
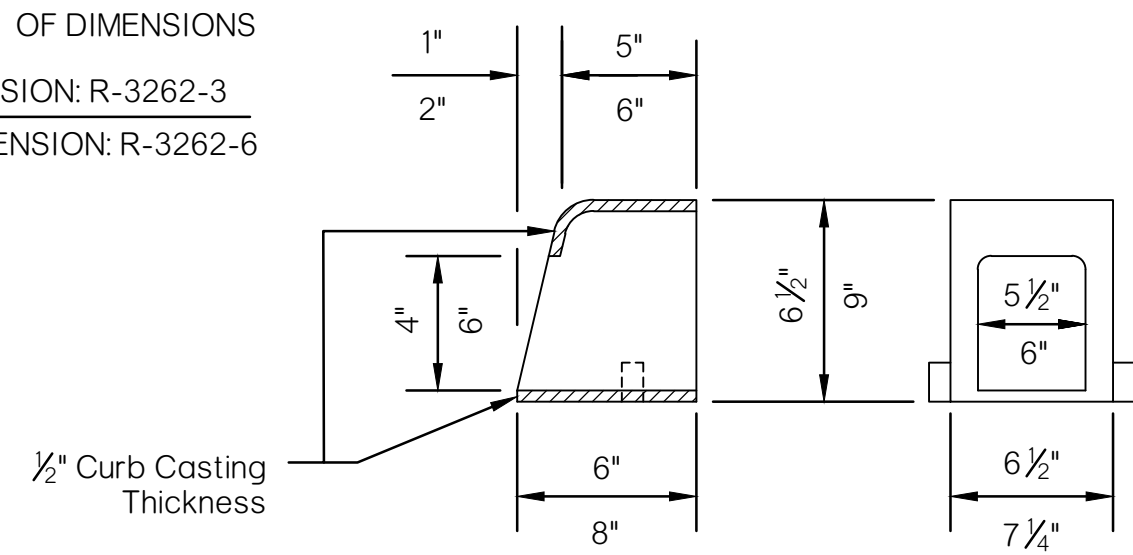


APPROVED BY: _____ DATE: _____
ERIC J. WENGER, P.E.
CITY ENGINEER
DRAWN: OKC-PW-SRB
DATE: 3/9/2023

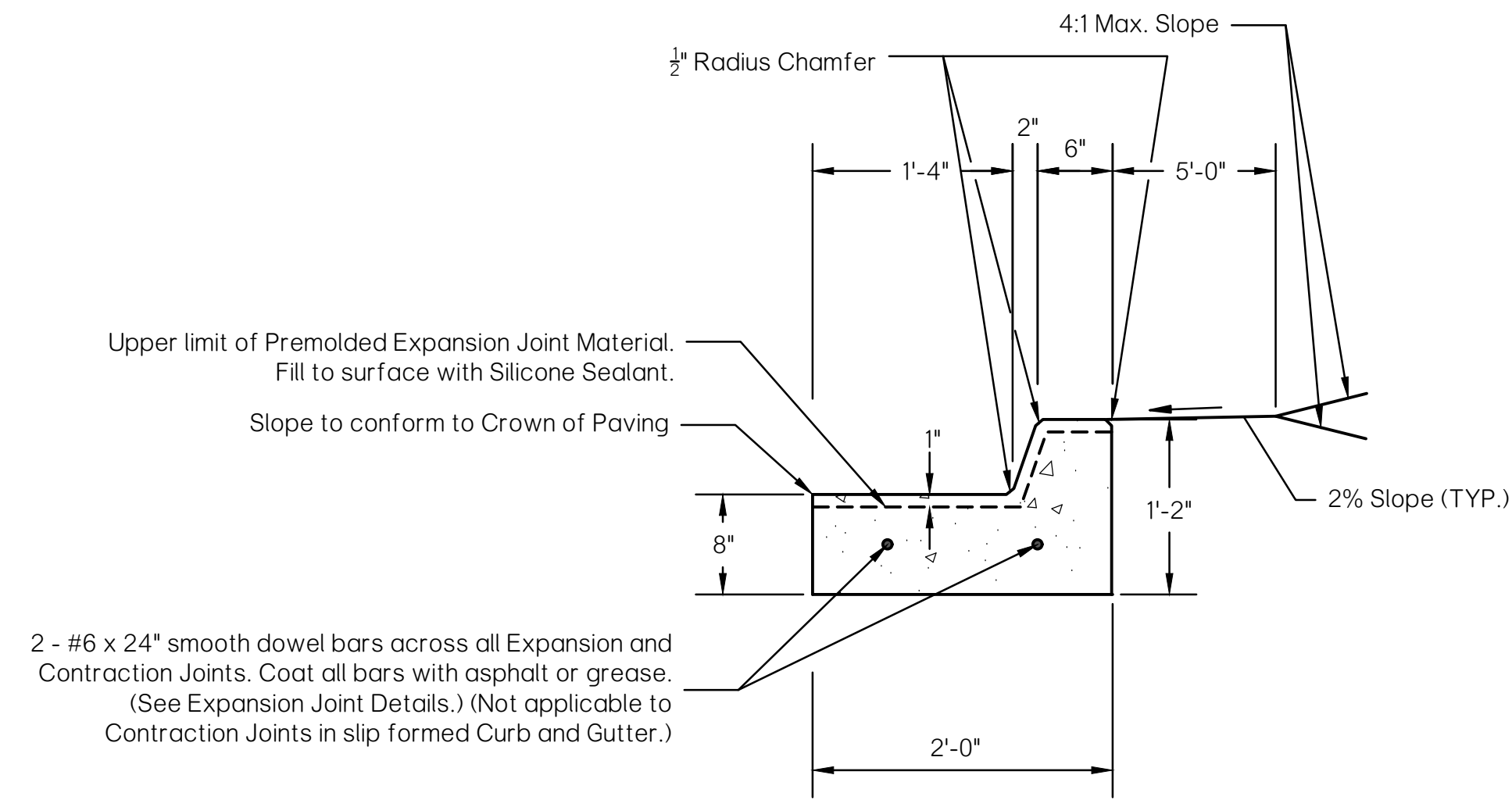
**STANDARD TYPICAL SECTIONS
P.C. CONCRETE PAVING**

Detail Number
D-200B

EXPLANATION OF DIMENSIONS
 TOP DIMENSION: R-3262-3
 BOTTOM DIMENSION: R-3262-6

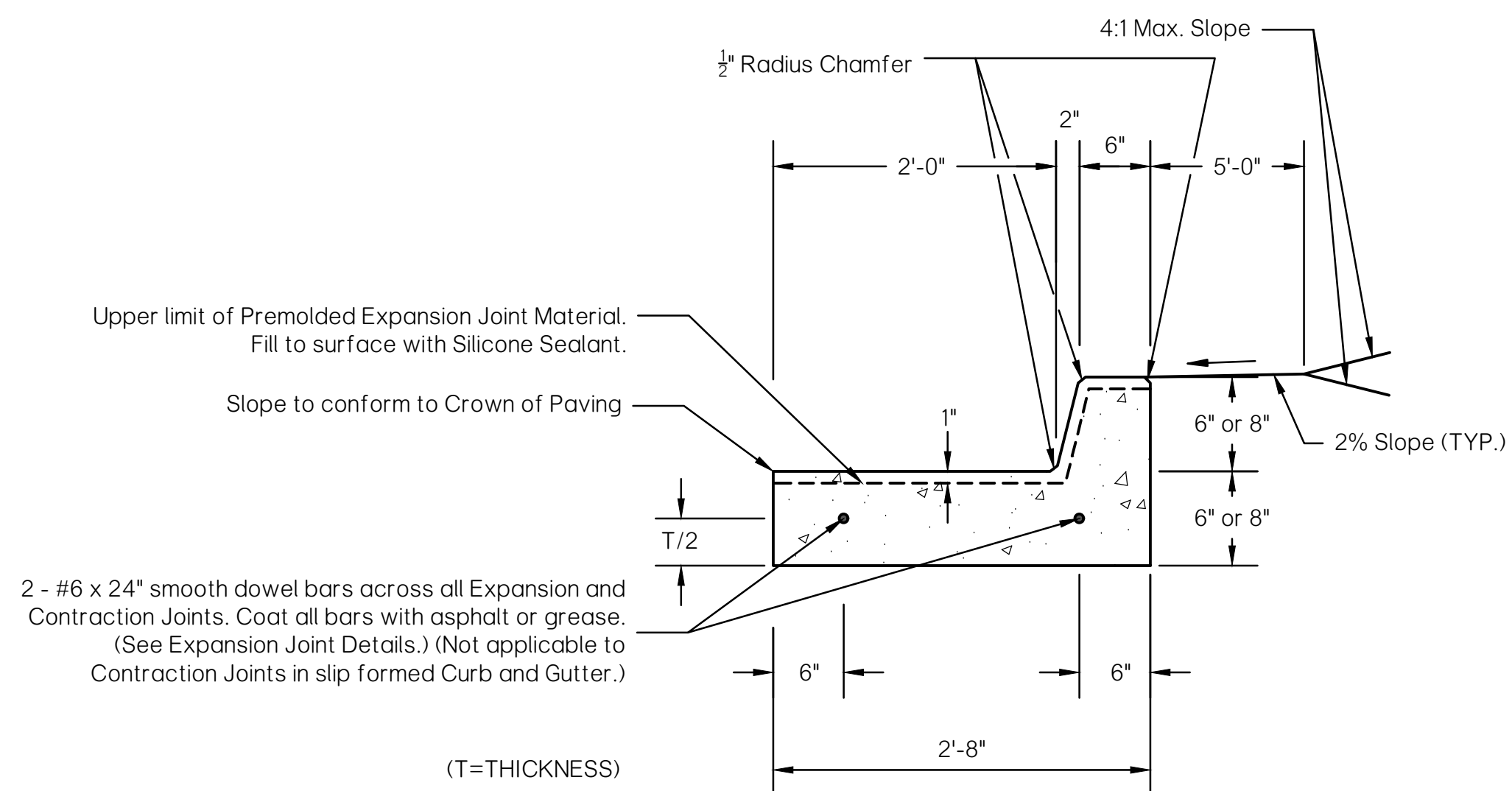


STORM WATER CURB OPENINGS
 NEENAH R-3262-3 & R-3262-6



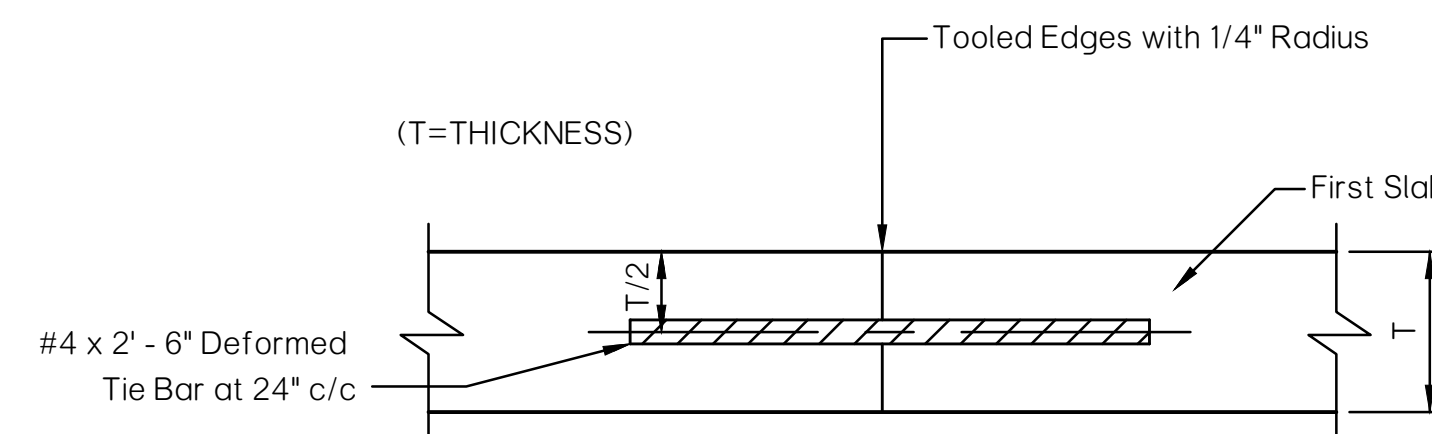
NOTE: Maximum spacing of 1/2" Expansion Joints to be 100' c/c with Contraction Joints 15' - 20' apart to match Driveway Returns. (Expansion Joint spacing not applicable to slip formed Curb and Gutter.)

CONCRETE CURB & GUTTER DETAIL FOR DOWNTOWN

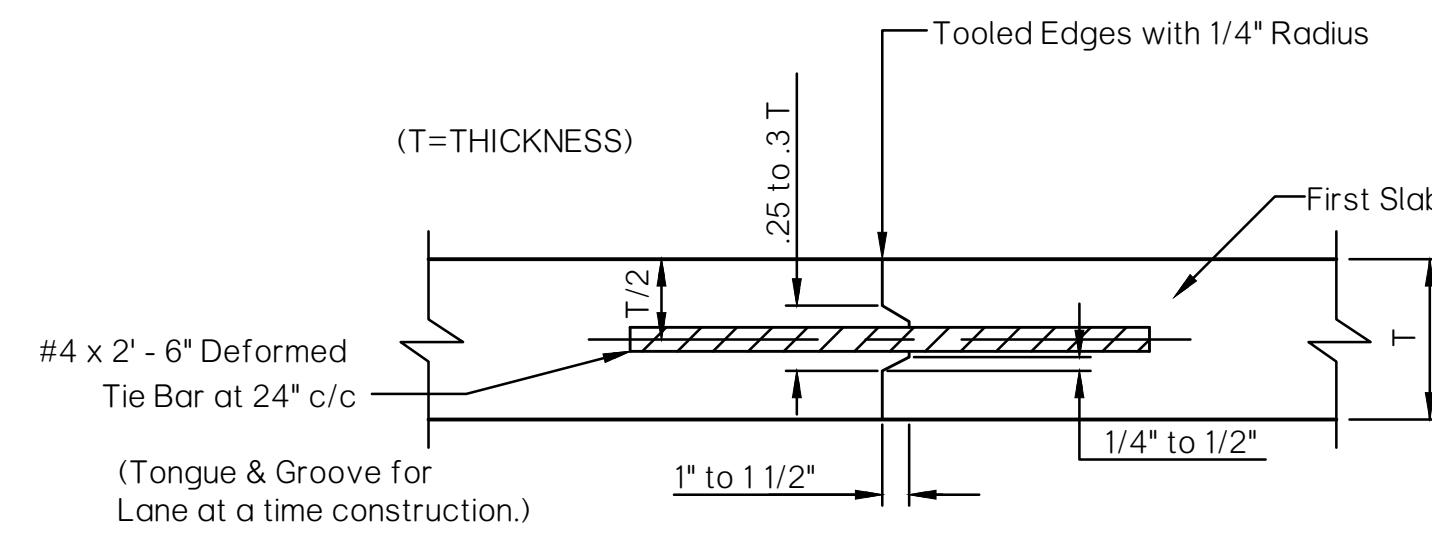


NOTE: Maximum spacing of 1/2" Expansion Joints to be 100' c/c with Contraction Joints 15' - 20' apart to match Driveway Returns. (Expansion Joint spacing not applicable to slip formed Curb and Gutter.)

BARRIER CURB & GUTTER DETAIL
 (TYPE 1)

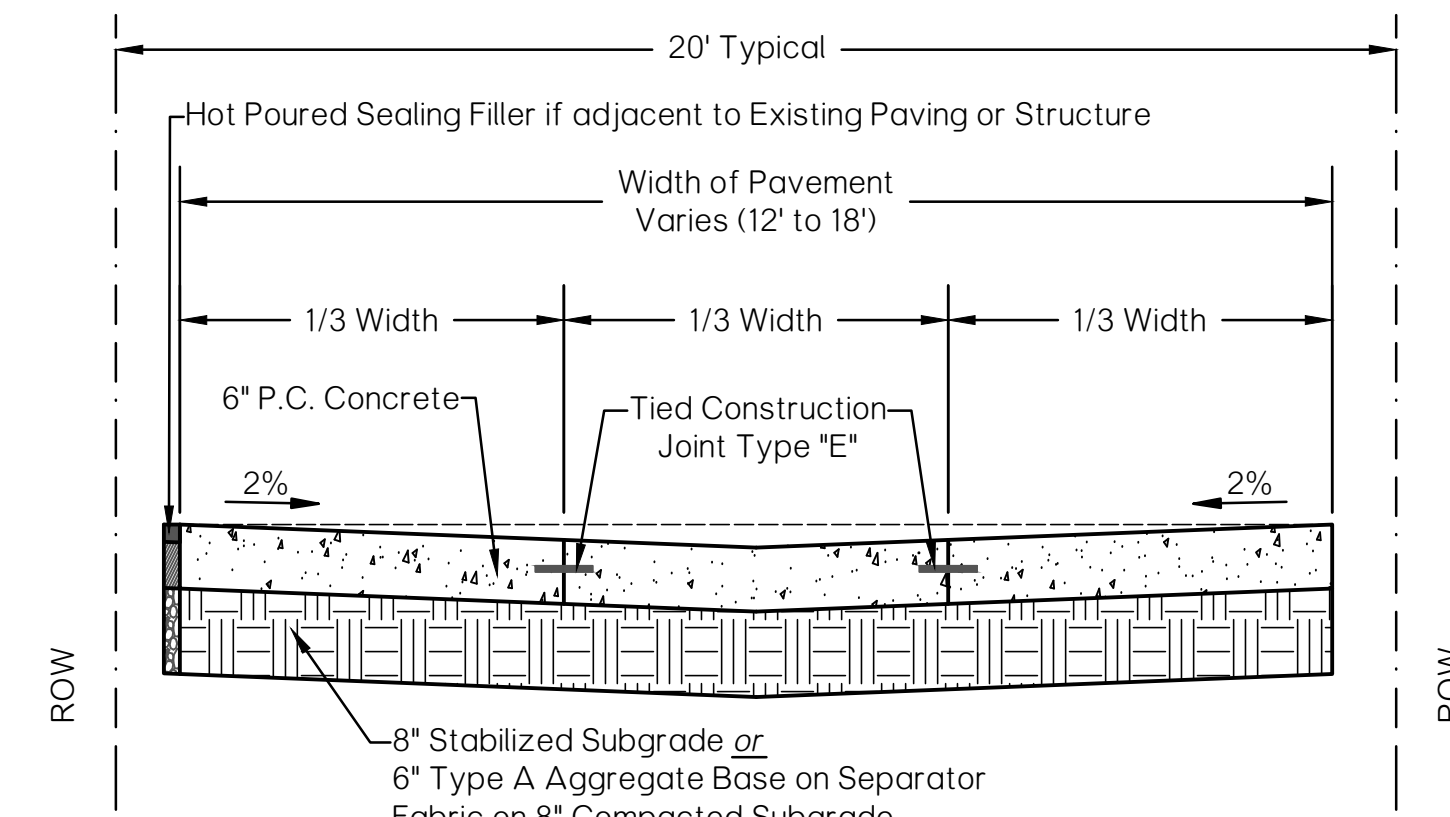


STANDARD TIED CONSTRUCTION JOINT
 TYPE "E"



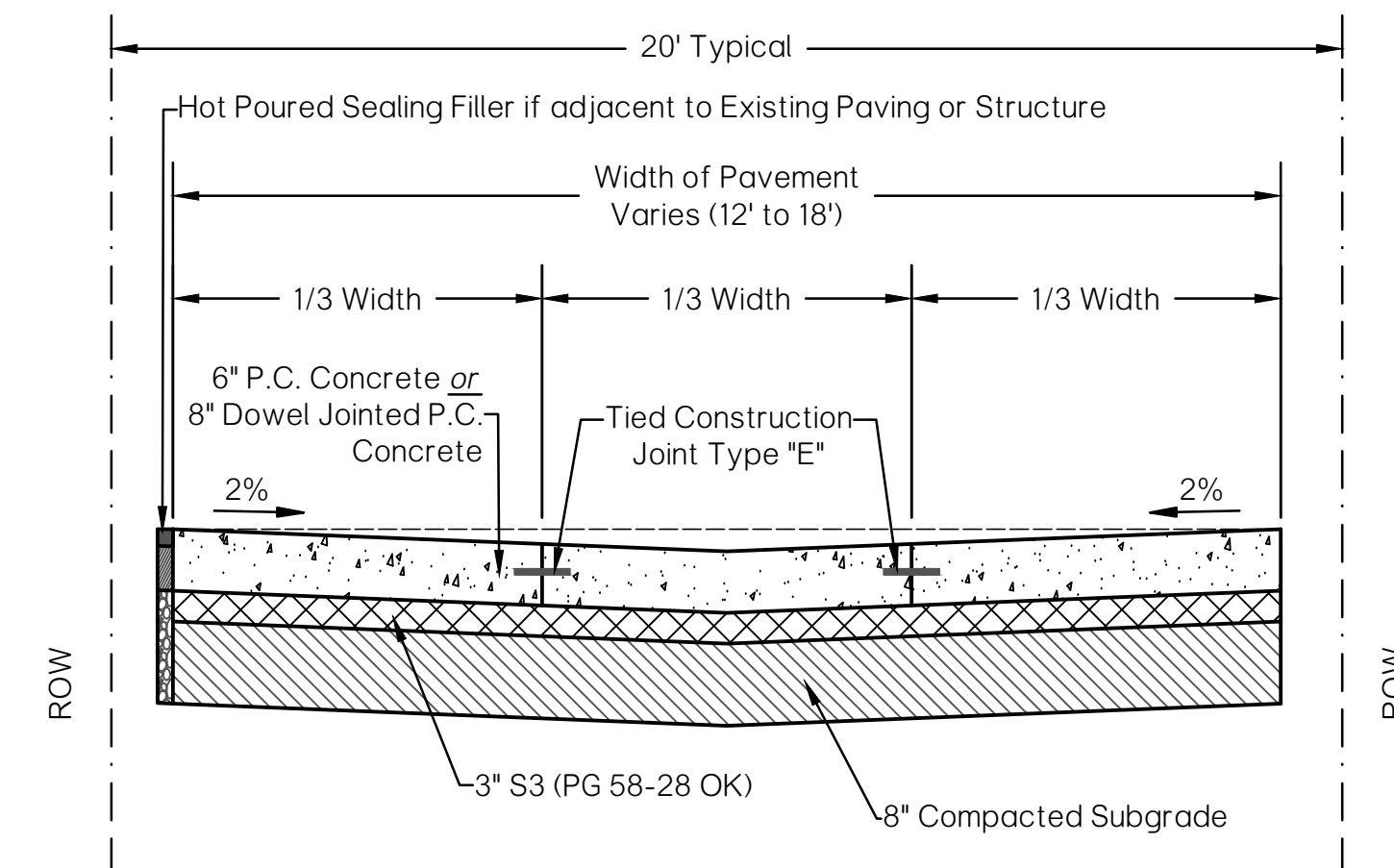
NOTE: Tongue & Groove shall be allowed, as approved by the City Engineer, when traffic is to be maintained during construction.

ALTERNATE TIED CONSTRUCTION JOINT
 TYPE "E"



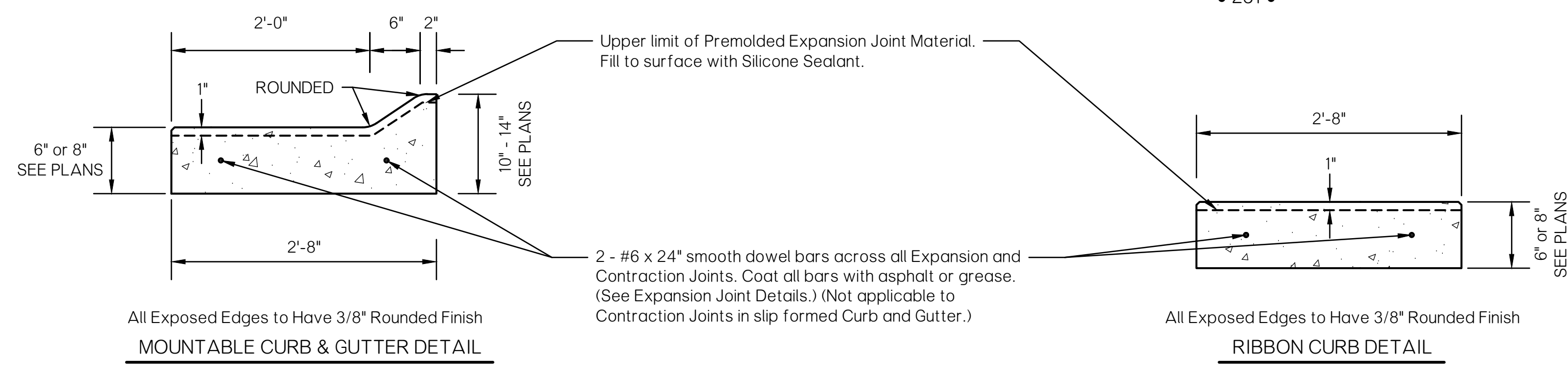
TYPICAL SECTION
 P.C. CONCRETE ALLEY PAVING
 LOCAL RESIDENTIAL
 • 230 •

NOTE: Transverse Joints at 10' MAX.



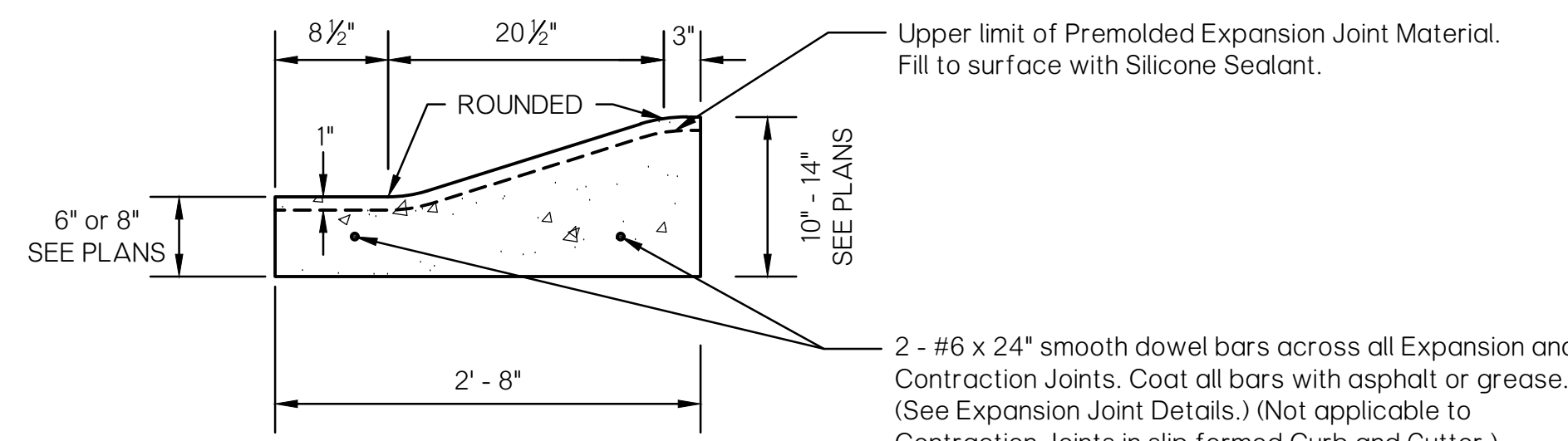
TYPICAL SECTION
 P.C. CONCRETE ALLEY PAVING
 COMMERCIAL/INDUSTRIAL
 • 231 •

NOTE: Transverse Joints at 10' MAX.



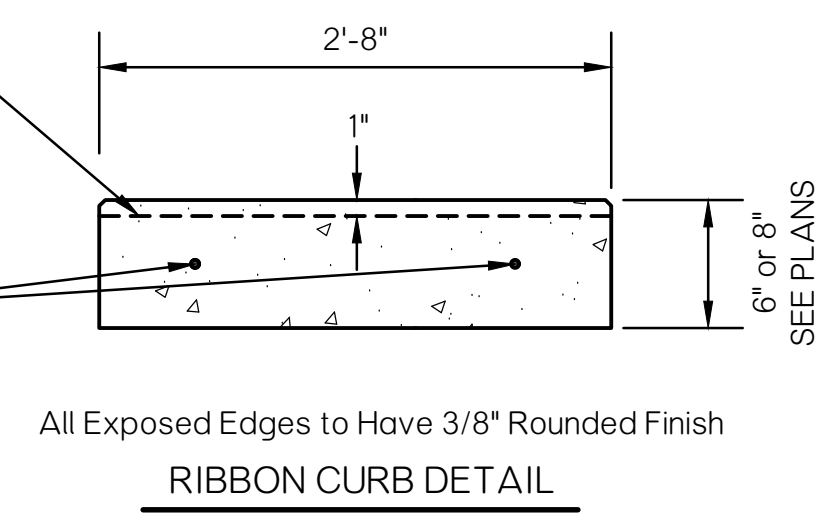
MOUNTABLE CURB & GUTTER DETAIL
 (TYPE 2)

* For use in residential street only, unless otherwise approved by City Engineer.



SPECIAL MOUNTABLE CURB & GUTTER DETAIL
 (TYPE 3)

* For use in residential street only, unless otherwise approved by City Engineer.



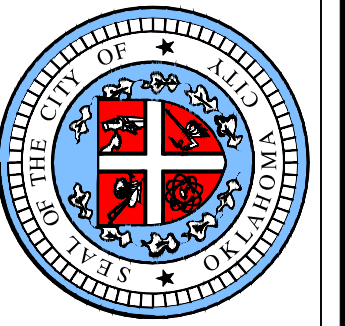
RIBBON CURB DETAIL
 (TYPE 4)

* For use in residential street only.

CURBS FOR P.C. CONCRETE PAVEMENT NOTE:

- #4 Tiebars 2'-0" long are required at 24" centers if Curb & Gutter not cast integrally with the P.C. Concrete street pavement. Longitudinal Construction Joints on Local and Collector streets may, with the approval of the City Engineer, be Butt Type Joints with Tiebars.

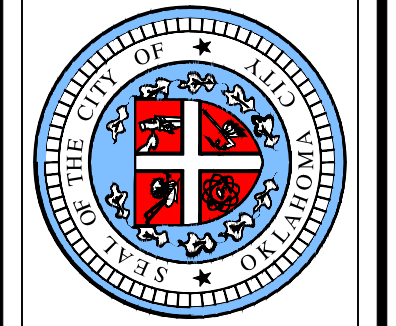
The City of
Oklahoma City
 Public Works Department
 Engineering Division



APPROVED BY: _____ DATE: _____
 ERIC J. WENGER, P.E.
 CITY ENGINEER
 DRAWN: OKC-PW-SRB
 DATE: 3/9/2023

**P.C. CONCRETE PAVING
 SPECIAL DETAILS**

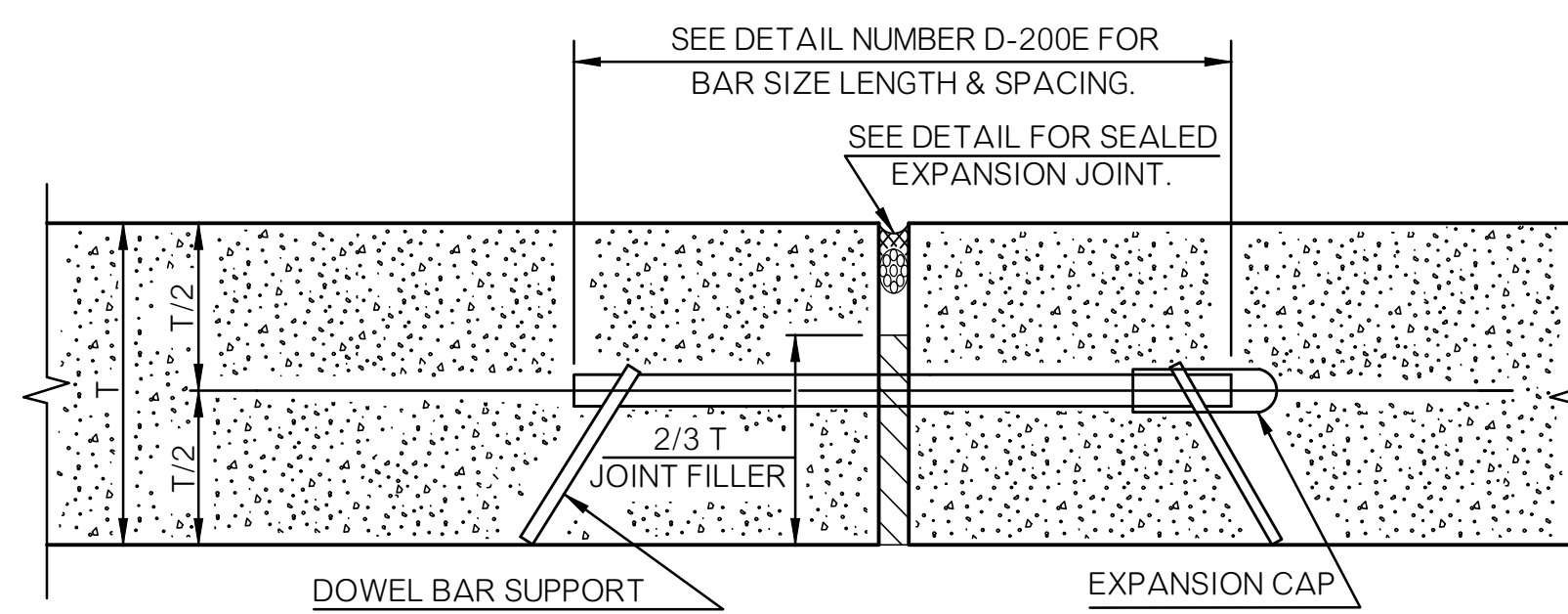
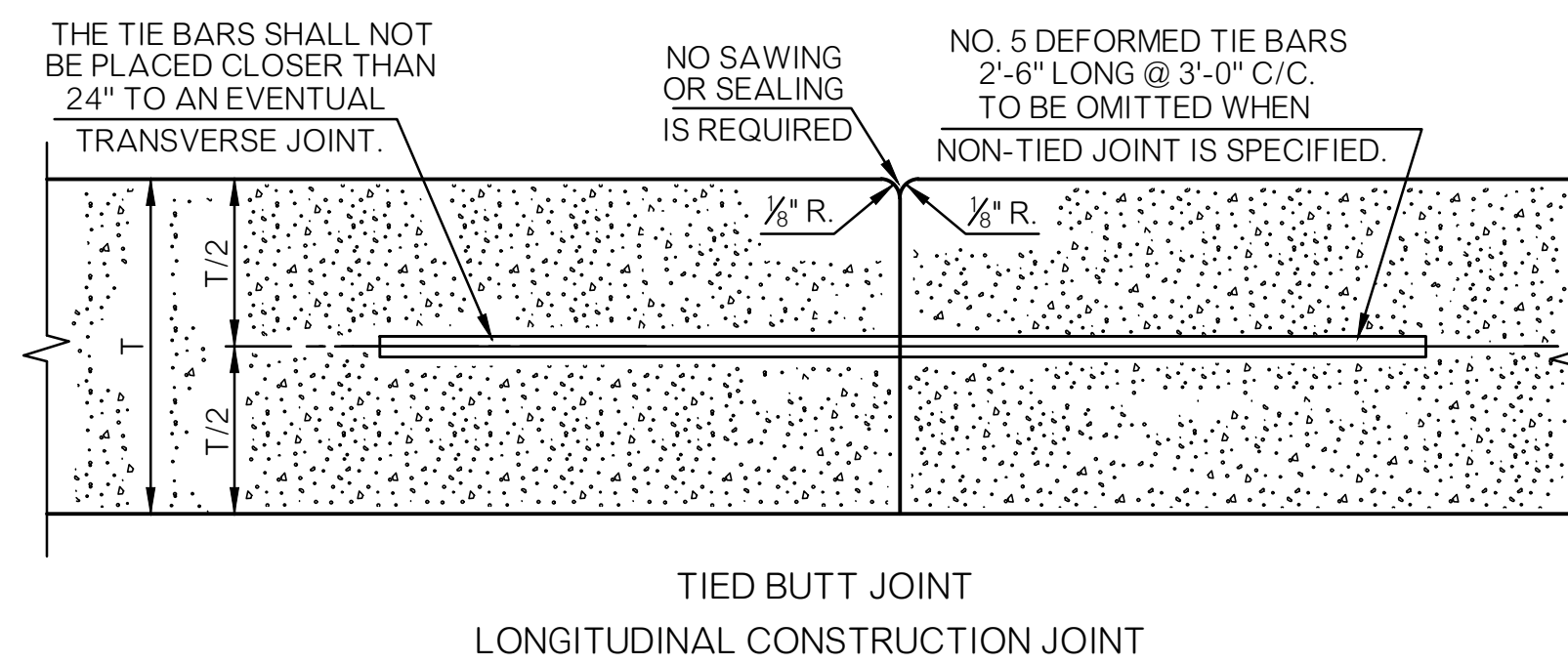
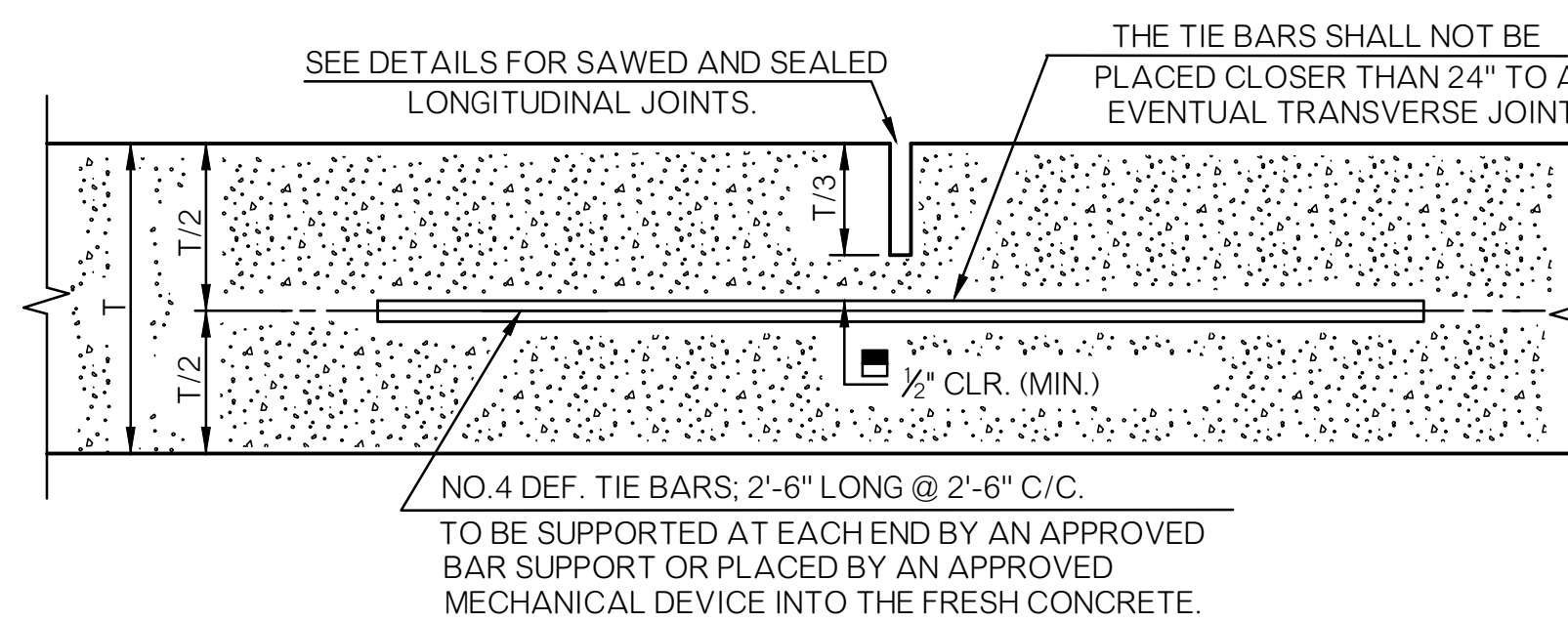
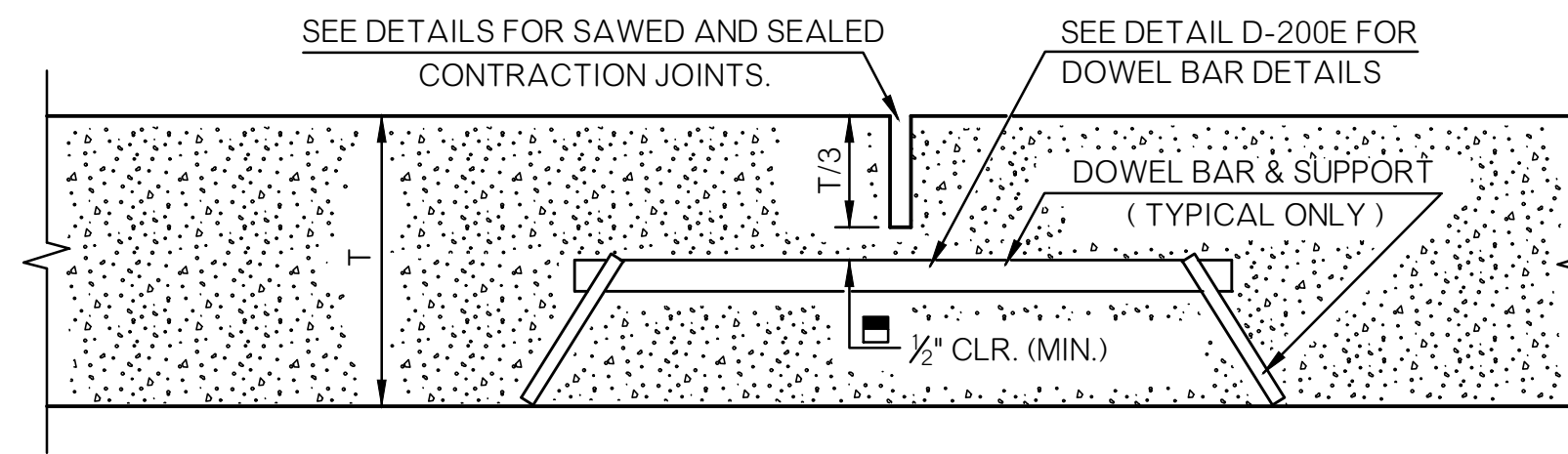
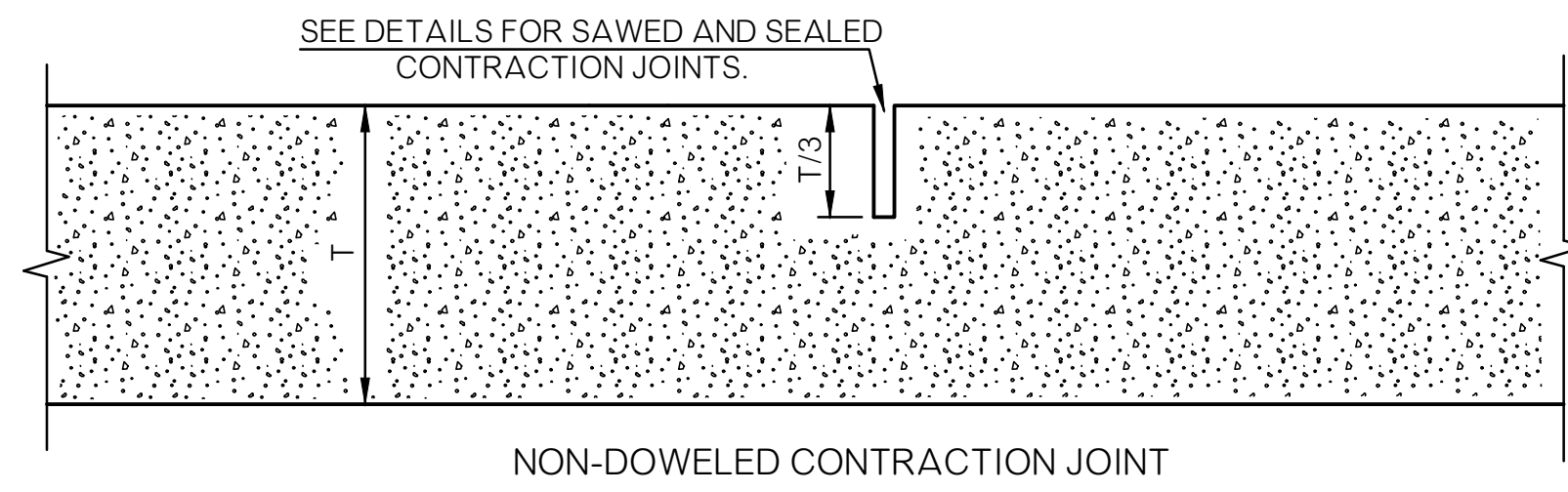
Detail Number
 D-200C



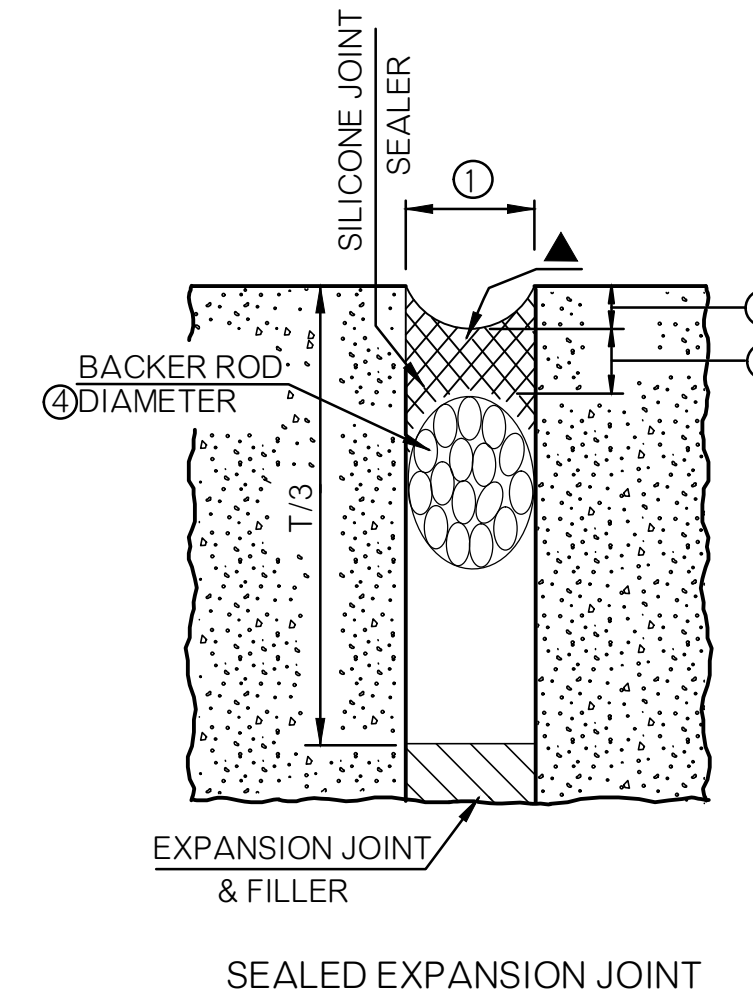
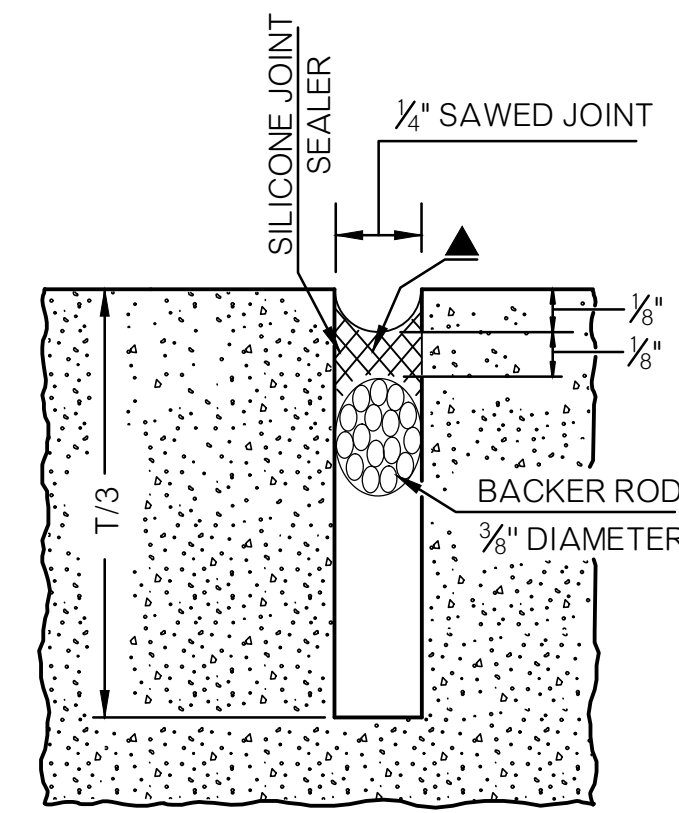
APPROVED BY: _____ DATE: _____
ERIC J. WENGER, P.E.
CITY ENGINEER
DRAWN: OKC-PW-SRB
DATE: 3/9/2023

**LONGITUDINAL, EXPANSION AND
CONTRACTION JOINTS DETAILS**

Detail Number
D-200D

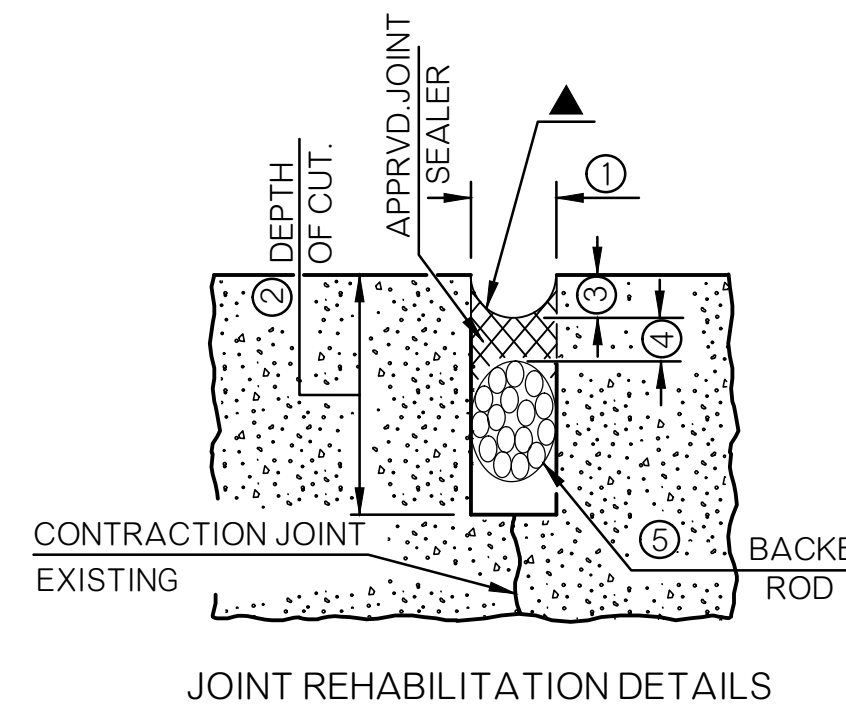
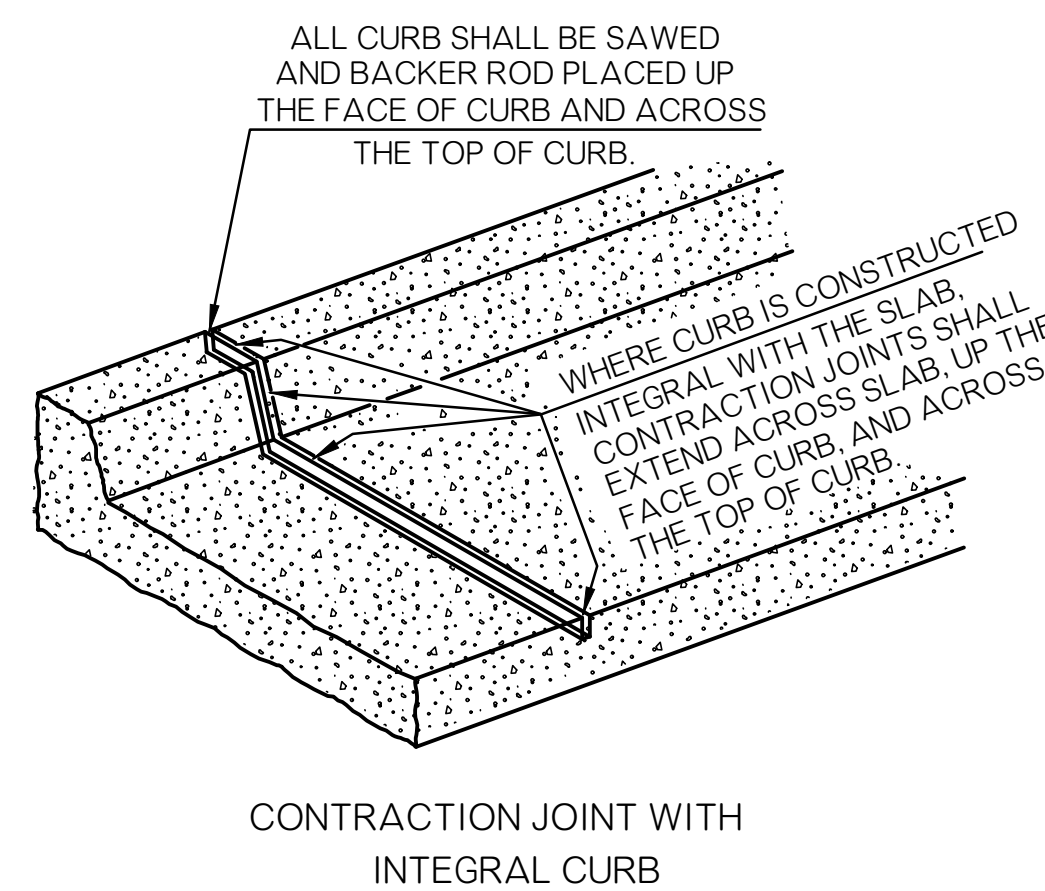


■ OMIT DOWEL BARS, CAPS & SUPPORTS FOR ISOLATION JOINTS
SEE STANDARD DRAWING NUMBER D-200E, LOAD TRANSFER UNITS.
FOR DETAILS OF ALTERNATE TYPES OF DOWEL BAR SUPPORTS.



EXPANSION JOINT / ISOLATION JOINT TREATMENT TABLE			
JOINT WIDTH ①	SEALANT RECESS DEPTH ②	SILICONE SEALANT THICKNESS ③	BACKER ROD DIAMETER ④
INCHES	INCHES	INCHES	INCHES
1/2"	1/4"	1/4"	3/8"
3/4"	1/4"	3/8"	1/2"
1"	3/8"	1/2"	1 1/4"
1 1/2"	1/2"	1/2"	2"
2"	1/2"	3/4"	2 1/2"

DETAILS FOR SEALED EXPANSION / ISOLATION JOINT
EXPANSION OR ISOLATION JOINT WIDTH SHALL BE 1/2", UNLESS OTHERWISE SPECIFIED ON THE PLANS. TABLE VALUES, AS SHOWN THIS TABLE, SHALL BE USED IN THOSE SPECIFIED CASES.



JOINT REHABILITATION TREATMENT TABLE				
JOINT WIDTH ①	DEPTH OF CUT ②	SEALANT RECESS DEPTH ③	SEALANT THICKNESS ④	BACKER ROD DIAMETER ⑤
INCHES	INCHES	INCHES	INCHES	INCHES
1/4"	1 1/8"	3/8" (MIN.)	1/4"	3/8"
3/8"	1 1/4"	3/8" (MIN.)	3/8"	1/2"
1/2"	1 3/4"	3/8" (MIN.)	1/2"	3/8"
3/4"	1 3/4"	3/8" (MIN.)	3/4"	1/2"
7/8"	1 3/4"	3/8" (MIN.)	7/8"	1"
1"	2"	—	—	1 1/2"
OVER 1"	OVER 2"	—	—	1 1/4" +

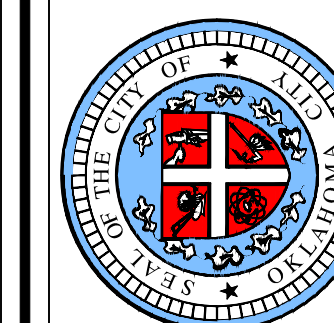
JOINT REHABILITATION - POLYMER SEALANT

JOINT REHABILITATION TREATMENT TABLE				
JOINT WIDTH ①	DEPTH OF CUT ②	SEALANT RECESS DEPTH ③	SILICONE SEALANT THICKNESS ④	BACKER ROD DIAMETER ⑤
INCHES	INCHES	INCHES	INCHES	INCHES
3/8"	1 1/4"	1/4"	3/8"	1/2"
1/2"	1 3/4"	1/4"	1/4"	3/8"
3/4"	1 3/4"	1/4"	3/8"	7/8"
1/2"	1 3/4"	1/2"	1/8"	1"
1"	2"	1/2"	1/2"	1 1/2"
OVER 1"	OVER 2"	1/2"	1/2"	1 1/4"

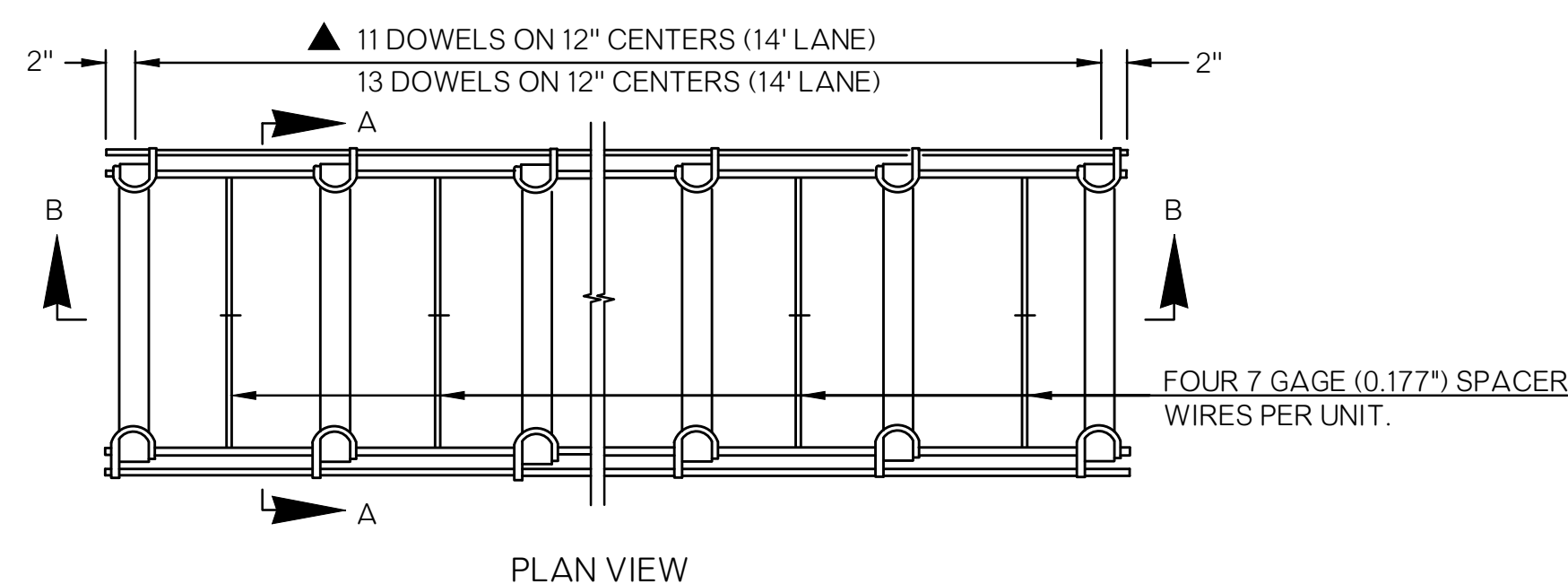
JOINT REHABILITATION - SILICONE SEALANT

GENERAL NOTES

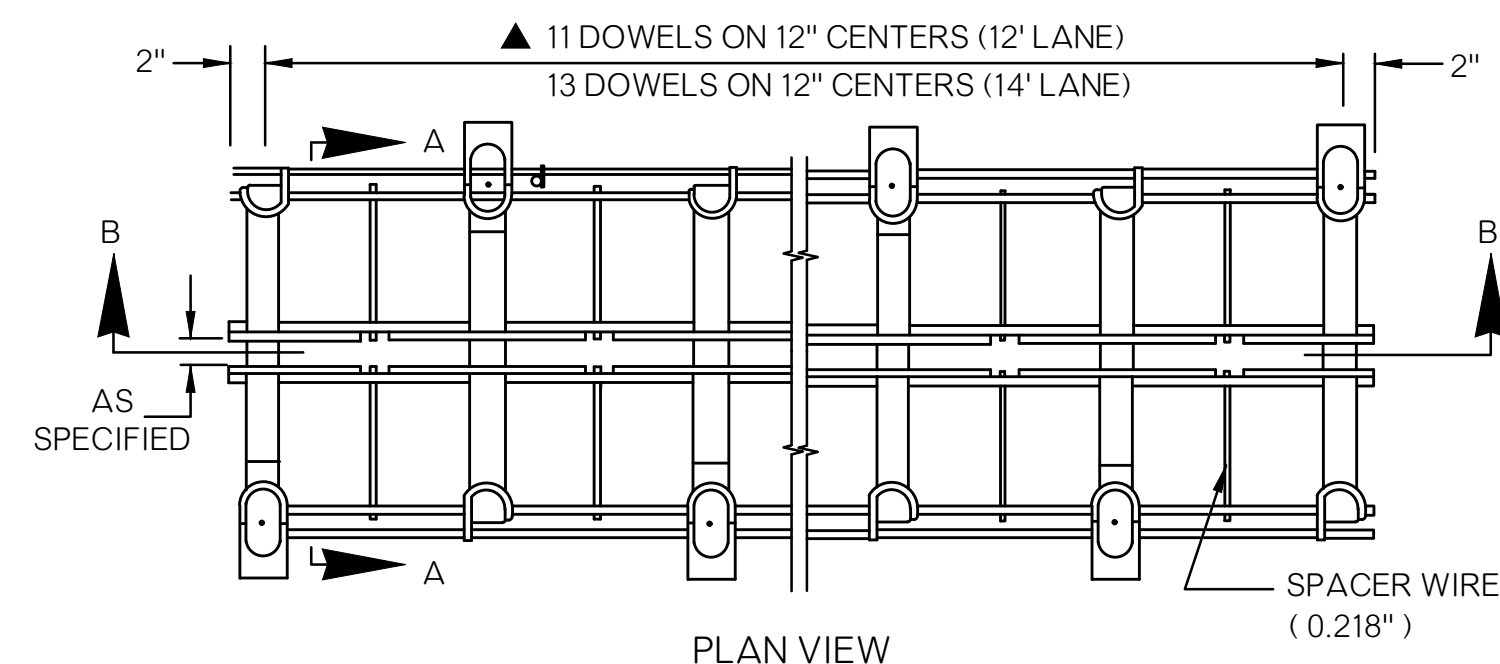
- ALL CONSTRUCTION AND MATERIALS REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE OKC STANDARD SPECIFICATIONS FOR CONSTRUCTION OF PUBLIC IMPROVEMENTS.
- ONLY SILICONE SEALANT MEETING REQUIREMENTS OF THE OKC STANDARD SPECIFICATIONS FOR CONSTRUCTION OF PUBLIC IMPROVEMENTS SHALL BE ACCEPTABLE FOR USE.
- ALL JOINTS SHALL BE CLEANED IN ACCORDANCE WITH THE OKC STANDARD SPECIFICATIONS FOR CONSTRUCTION OF PUBLIC IMPROVEMENTS. WATER FLUSHING AND AIR CLEANING OF JOINT SHALL BE IN ONLY ONE DIRECTION-FORWARD. SANDBLASTING SHALL BE PERFORMED IN TWO PASSES, ONE FOR EACH FACE OF THE JOINT.
- THE SHAPE FACTOR COMBINED WITH JOINT CLEANNESS IS THE CRITICAL COMBINATION NECESSARY TO GUARANTEE DESIRED BONDING AND FUNCTION OF SEALED JOINTS. NO TOLERANCE EXCEPT THOSE SHOWN HERE WILL BE ALLOWED.
- THE JOINT SHAPE FACTOR IS DEFINED AS THE FINAL PRESSED SHAPE OF THE SILICONE MATERIAL. THE TOOLING OPERATION WILL FIRMLY PRESS THE FRESHLY APPLIED MATERIAL INTIMATELY AGAINST THE CUT SIDES OF THE RECESS AND THE BACKER ROD SURFACES. THE ROUNDED SHAPE ON TOP AND BOTTOM OF THE SILICONE ALLOWS THE SEALANT TO PROPERLY FLEX BUT MAINTAIN ADHERENCE TO THE PAVING.
- ON JOINTED PORTLAND CEMENT CONCRETE PAVEMENTS, DOWELED CONTRACTION JOINTS SHALL BE USED ON DRIVING LANES ONLY. CONCRETE SHOULDERS SHALL NOT BE DOWELED UNLESS SPECIFIED ON THE PLANS.
- LONGITUDINAL JOINTS BETWEEN PAVEMENT AND TIED CONCRETE SHOULDERS SHALL NOT BE SAWED OR SEALED UNLESS OTHERWISE SHOWN ON THE PLANS.
- ON ALL SAWED JOINTS, THE KERF DEPTH SHALL CLEAR DOWEL BARS, TIE BARS AND/OR REINFORCING STEEL BY A MINIMUM OF 1/2".
- CONTRACTION JOINTS IN JOINTED P. C. PAVEMENT SHALL BE AT APPROXIMATELY 15'-0" CENTERS, UNLESS OTHERWISE SPECIFIED ON THE PLANS.



APPROVED BY: _____ DATE: _____
ERIC J. WENGER, P.E.
CITY ENGINEER
DRAWN: OKC-PW-SRB
DATE: 3/9/2023



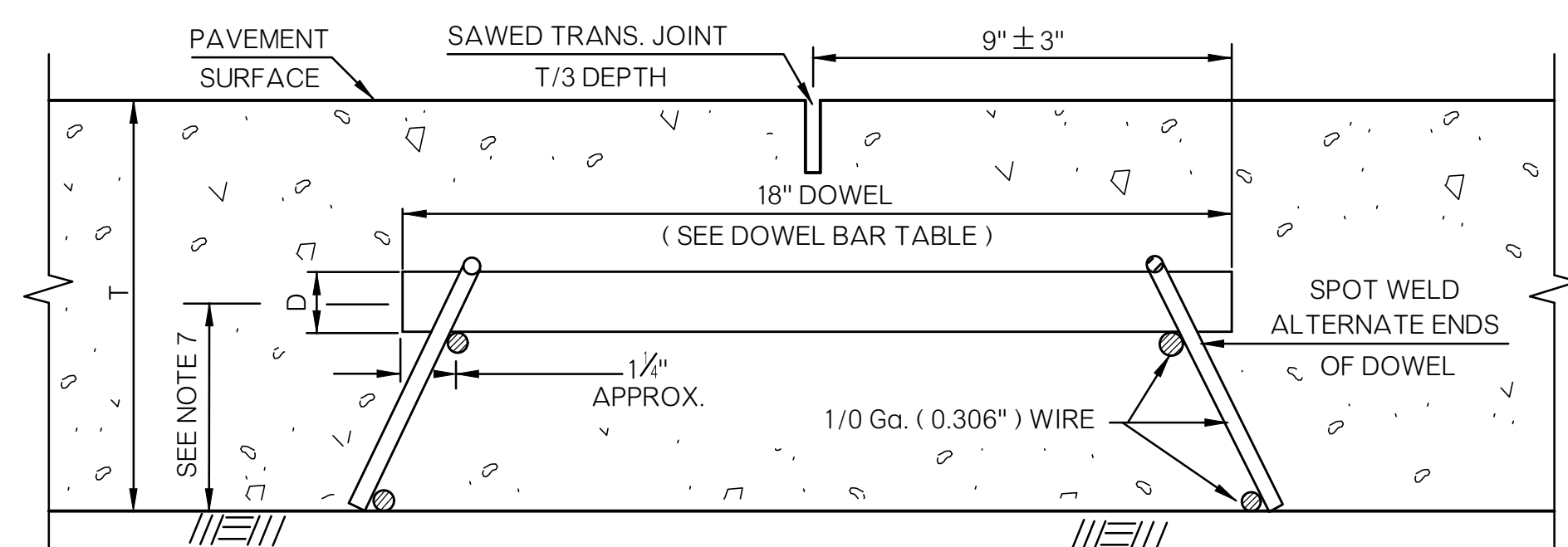
PLAN VIEW



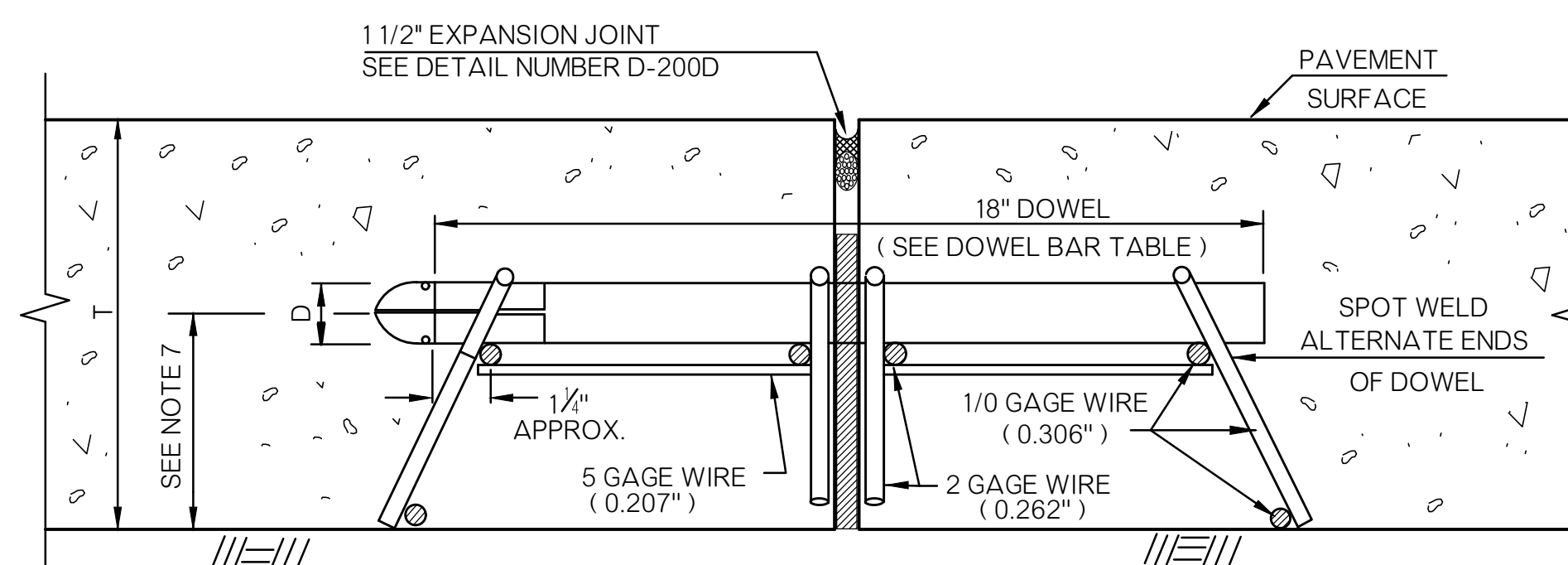
PLAN VIEW

DOWEL BARS			
▲ SPACING & SIZE DATA			
(T) SLAB DEPTH	(D) DOWEL DIA.	TOTAL DOWEL LENGTH	C/C DOWEL SPACING
7"-10"	1 1/2"	18"	12"
10 1/2" & UP	1 1/2"	18"	12"

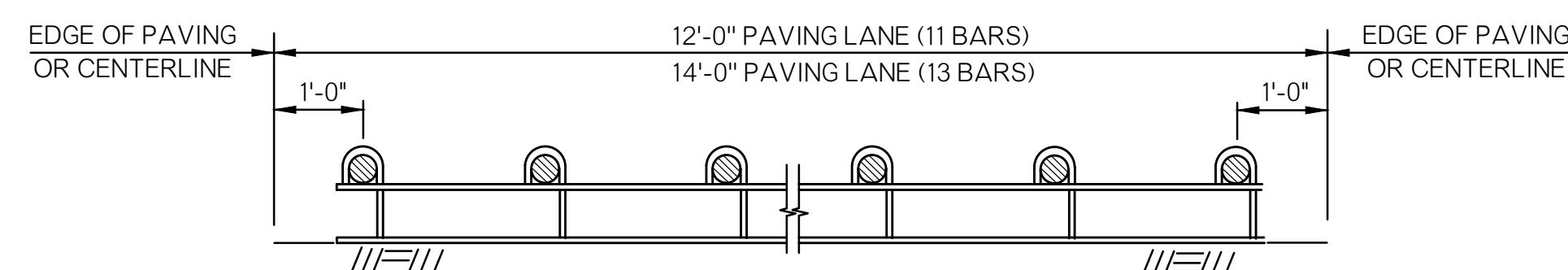
DOWEL DIAMETER WILL BE DETERMINED BY THE SLAB DEPTH (T) OR THE NOMINAL DEPTH WHEN SLAB DEPTH VARIES. WHEN NOMINAL DEPTH VALUE IS TO BE USED, THE CALCULATED NOMINAL DEPTH WILL BE SHOWN ON THE PLANS.



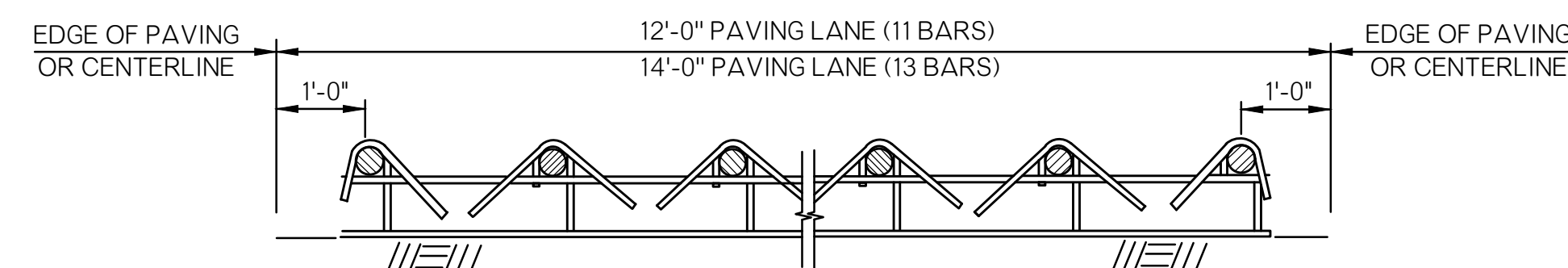
SECTION A-A



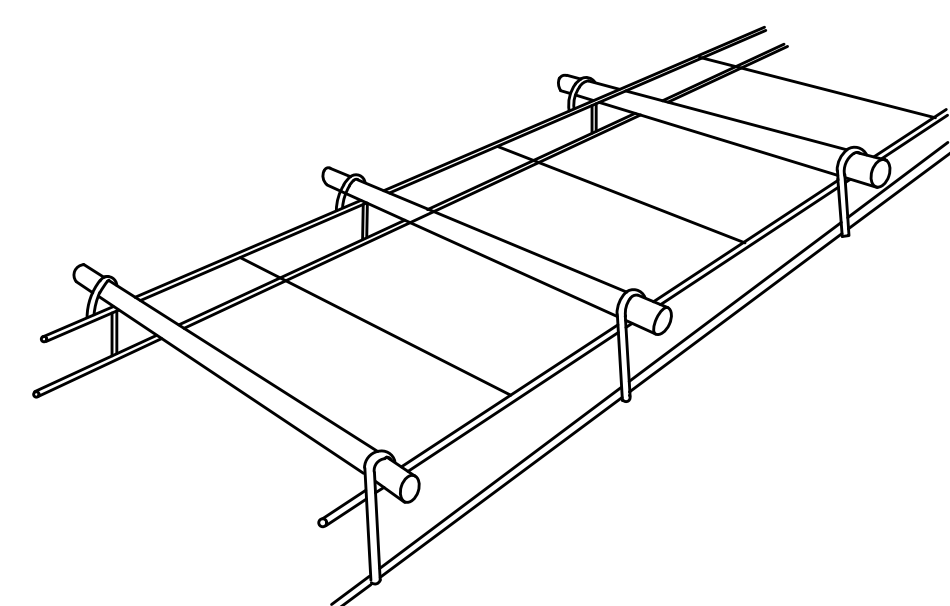
SECTION A-A



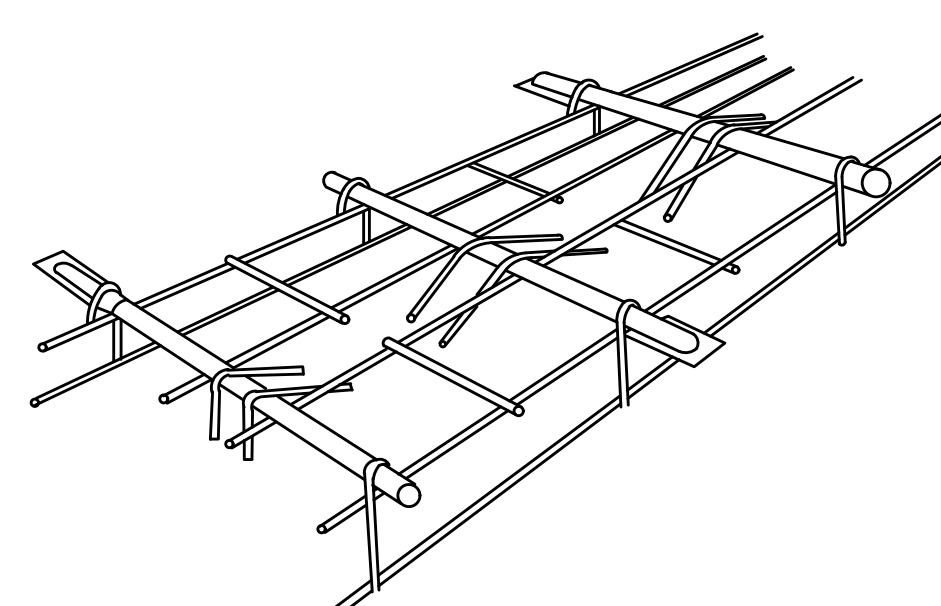
SECTION B-B



SECTION B-B



WELDED CONTRACTION JOINT ASSEMBLY



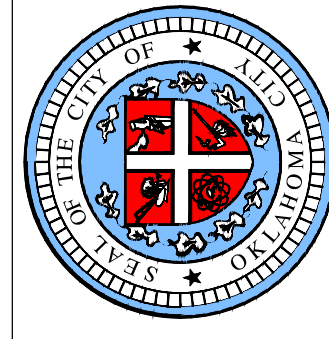
WELDED EXPANSION JOINT ASSEMBLY

GENERAL NOTES

- ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE OKC STANDARD SPECIFICATIONS FOR CONSTRUCTION OF PUBLIC IMPROVEMENTS.
- ANY DEVICE USED FOR SUPPORTING DOWELS SHALL HAVE SUFFICIENT RIGIDITY AND BE HELD IN PLACE DURING CONCRETE PLACEMENT SO THAT DOWELS WILL BE IN SPECIFIED POSITION IN THE FINISHED PAVEMENT. ANY DEVICE NOT PRODUCING THE SPECIFIED RESULTS SHALL BE REJECTED.
- PRODUCER AND CONTRACTOR SHALL AVOID PATENT INFRINGEMENT OF THE BASKET AND SHALL SAVE THE CITY HARMLESS IN THE USE OF ANY BASKET.
- THE CONTRACTOR MAY SELECT THE TYPE OF BASKET TO BE USED. AFTER THE SELECTION IS MADE, THE SAME TYPE BASKET SHALL BE USED THROUGHOUT THE PROJECT, UNLESS APPROVED OTHERWISE BY THE CITY ENGINEER.
- COLD-DRAWN STEEL WIRE, USED FOR DOWEL BASKETS, SHALL BE ACCEPTED BY VISUAL FIELD INSPECTION, AS PROVIDING SUFFICIENT DOWEL BAR SUPPORT DURING PAVING PROCESS.
- ▲ DOWEL BARS SHALL BE GRADE 60 PLAIN BARS. DOWEL BARS SHALL BE CENTERED ON THE BASKET REGARDLESS OF THE WIDTH OF THE BASKET OR THE LENGTH OF THE DOWEL BAR.
- THE HEIGHT OF THE LOAD TRANSFER UNIT (MEASURED TO THE CENTER OF THE DOWEL BAR FROM THE PAVEMENT SURFACE) SHALL BE 1/2 THE THICKNESS OF THE PAVEMENT, PLUS OR MINUS 1/2 THE DIAMETER OF DOWEL BAR OF THE UNIT.
- DOWEL BARS SHALL HAVE A SHOP APPLIED EPOXY COATING OVER THEIR ENTIRE LENGTH (ENDS EXCEPTED). ADDITIONALLY, DOWELS SHALL BE COMPLETELY COATED WITH A FORM RELEASE AGENT (OR APPROVED EQUIVALENT BOND BREAKER) APPLIED IN THE FIELD, IMMEDIATELY PRIOR TO PAVING. THE FORM RELEASE AGENT SHALL NOT BE ALLOWED TO EVAPORATE FROM THE BARS PRIOR TO PAVING.
- FOR EXPANSION JOINTS, THE DOWEL BARS SHALL HAVE EXPANSION CAPS WITH A MINIMUM 1" AND A MAXIMUM 2" AIR SPACE IN THE END OF THE EXPANSION CAPS (EXPANSION JOINT ASSEMBLIES).
- THE CONTRACTOR SHALL DEMONSTRATE TO THE CITY ENGINEER A STAKING PATTERN THAT SHALL SECURE ALL DOWEL BASKETS SUCH THAT THE FINAL DOWEL POSITION IS WITHIN SPECIFICATION LIMITS.
- FOR EXPANSION JOINTS, IN ADDITION TO THE SUPPORTS INDICATED, THE CONTRACTOR SHALL PROVIDE SUITABLE INSTALLING DEVICES AND SUCH ADDITIONAL STAKES AS MAY BE REQUIRED TO HOLD THE JOINT FILLER VERTICAL AND SECURELY IN LINE AND POSITION. THE CONTRACTOR WILL ALSO BE REQUIRED TO SATISFACTORILY FORM THE UPPER PORTION OF THE JOINT FOR RECEIVING THE SEAL. SEE ATTACHED DETAIL NUMBER D-200D.

**LOAD TRANSFER UNITS FOR
CONCRETE PAVEMENT JOINTS
DETAILS**

Detail Number
D-200E

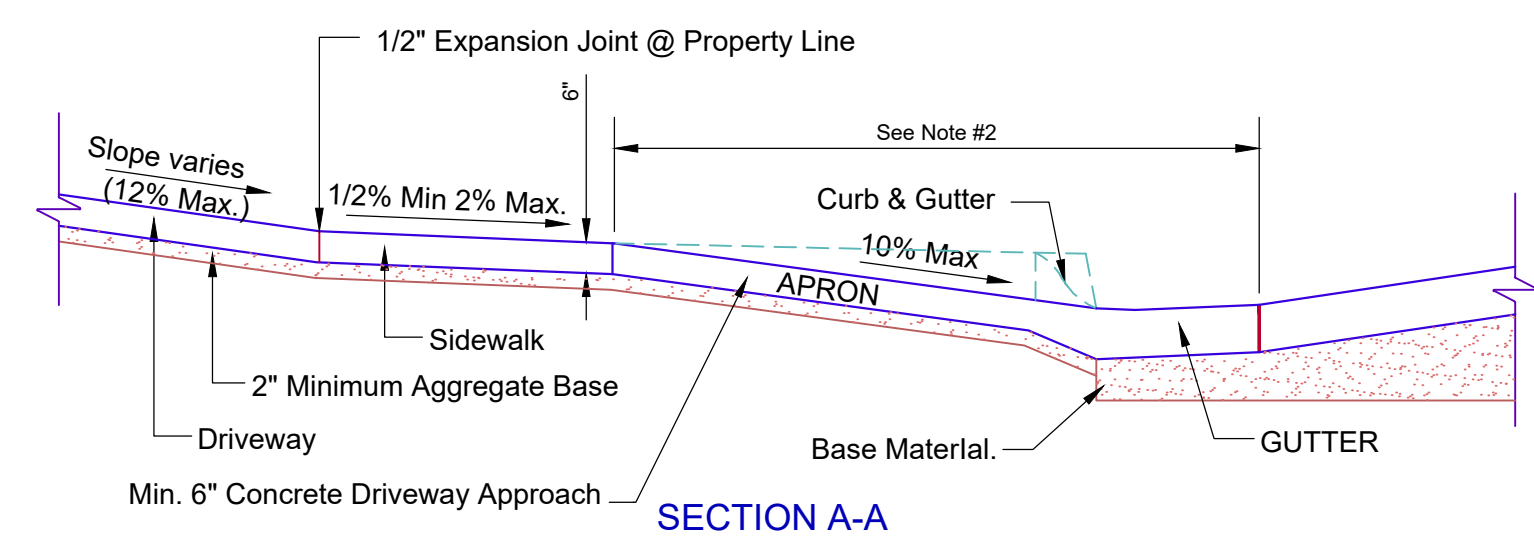
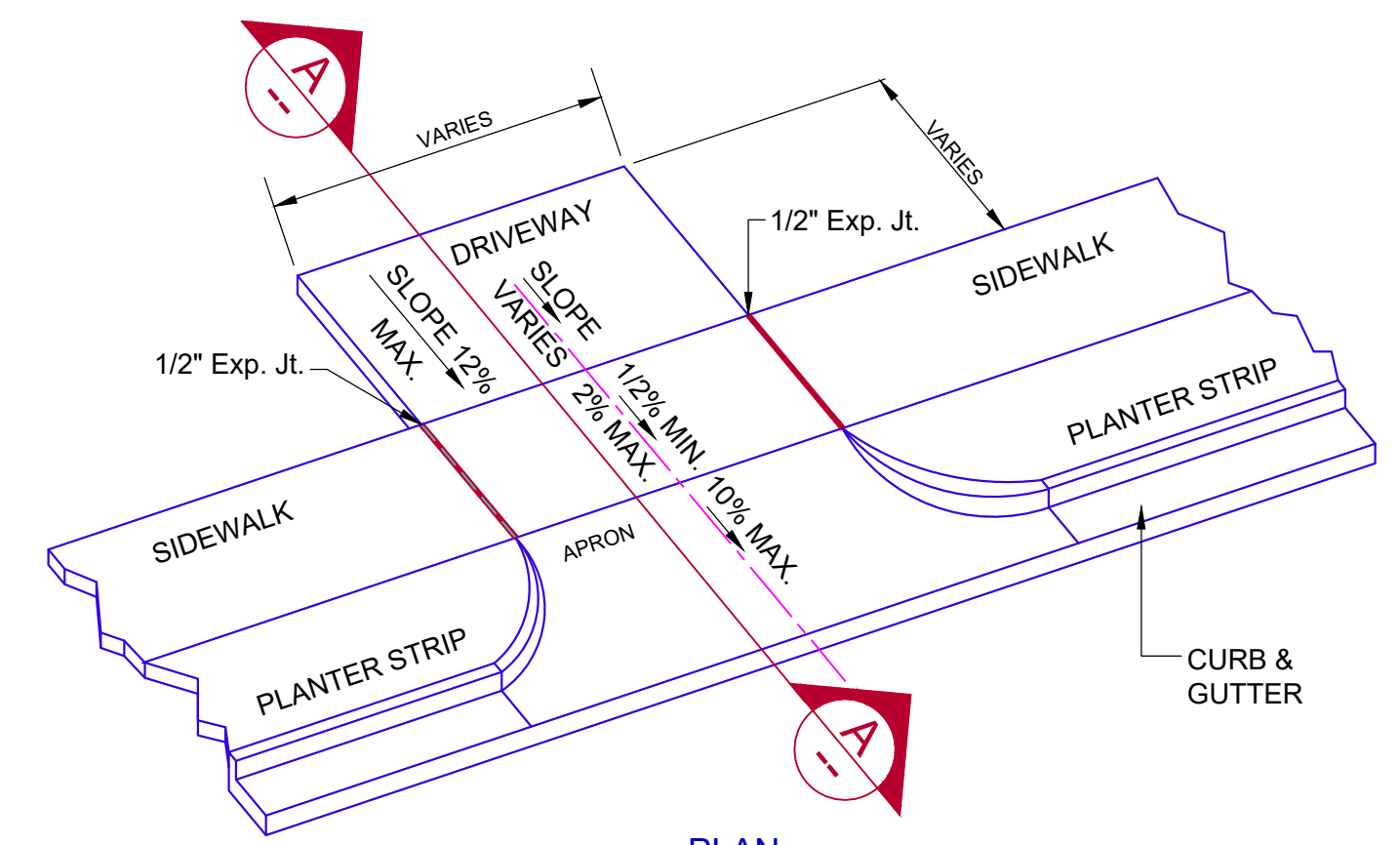


APPROVED BY: DATE: 02-05-13
 ERIC J. WENGER, P.E.
 CITY ENGINEER

DRAWN: VSC
 DATE: 02-05-13

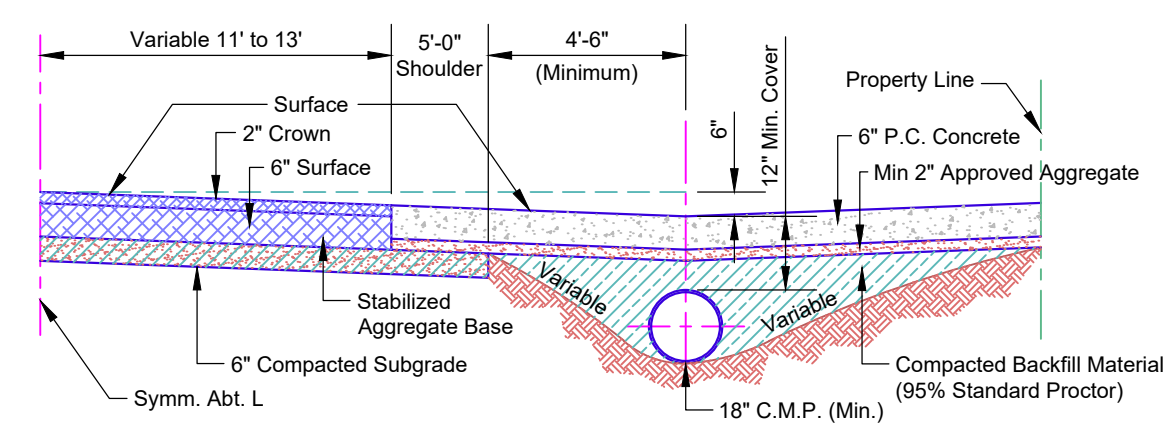
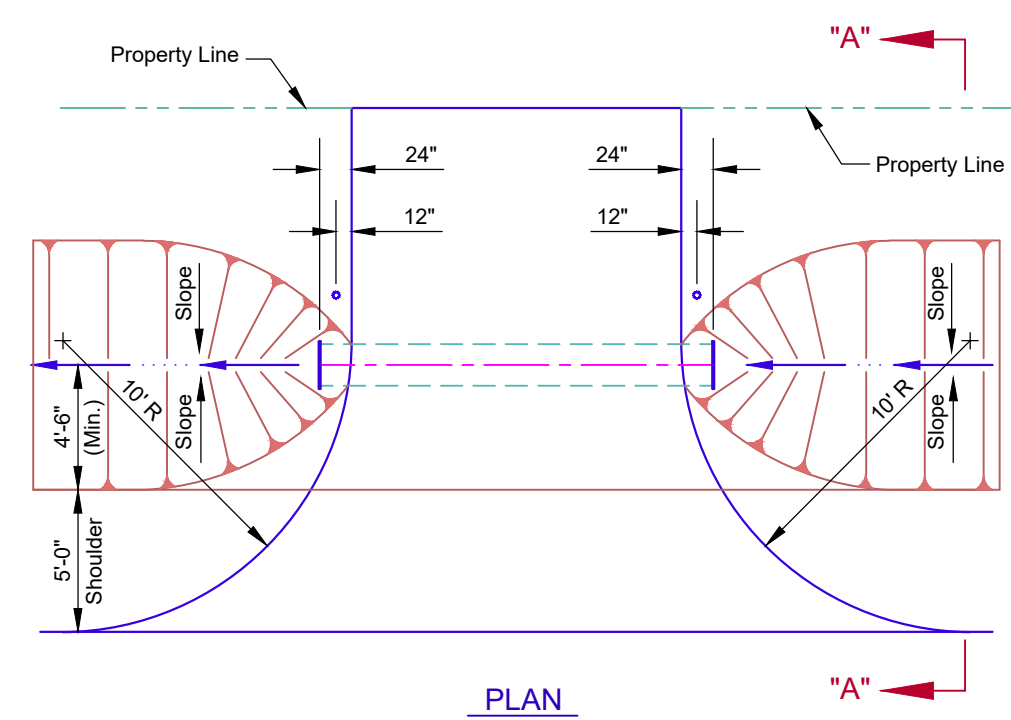
**STANDARD TYPICAL SECTIONS
 DRIVEWAY DETAILS**

Drawing Number
 D-300

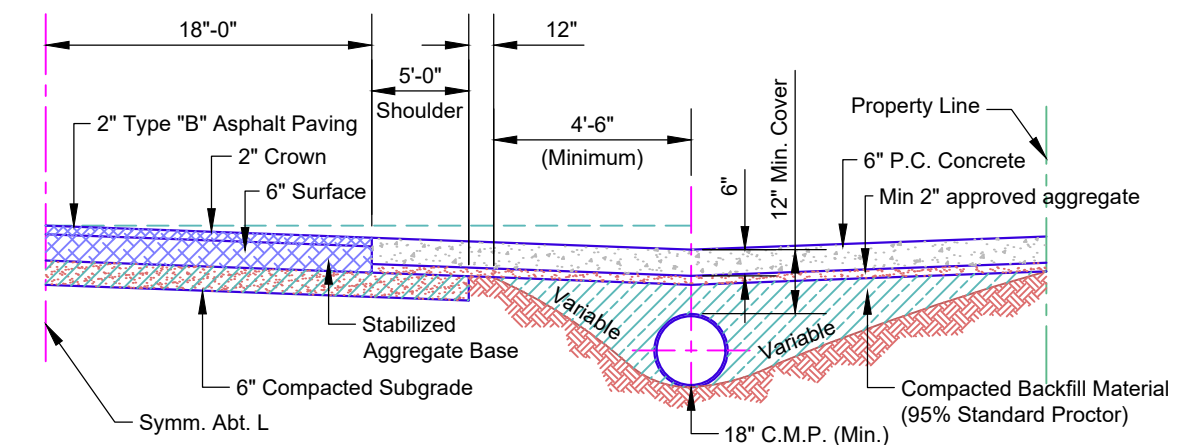
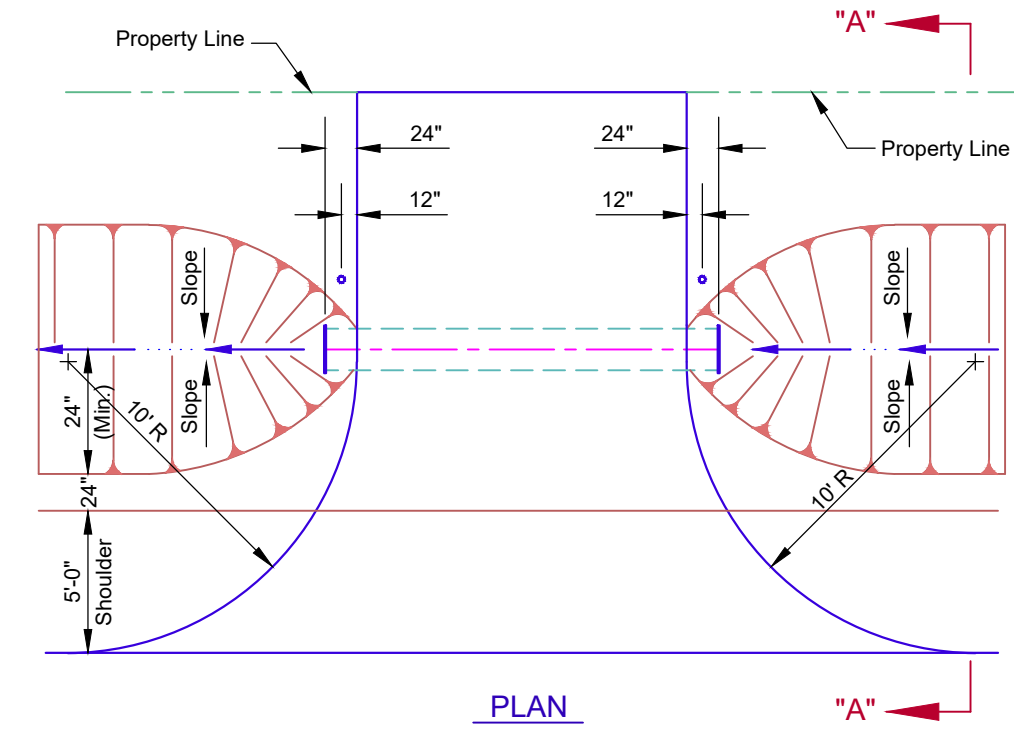


- NOTES:**
1. A 5' - 0" minimum radius is approved for one & two family residences not abutting a limited access or major street. All other Driveways will have a 10' 0" minimum radius.
 2. The Driveway Contractor shall saw cut & remove the complete Curb and Gutter section. Saw cuts shall be 2" or 1/3 the depth of the gutter, whichever is greater. Saw cuts shall include the top & face of curb as well as the gutter. Saw cuts shall be made prior to the removal of concrete.
 3. If a gutter holds water prior to any construction by driveway Contractor, he should notify the City Engineer of the situation before doing any work. The completed driveway work will not be accepted if the gutter holds water due to poor construction by the Contractor.
 4. It is recognized that this driveway detail will not cover every possible situation encountered in construction. Additional expansion joints will be required as needed.
 5. Clean and seal all joints and saw cuts in accordance with standard specifications.
 6. Longitudinal Joint required for drives 16' wide & greater. Saw cut 2" deep and fill with silicone sealant. Transverse Joints Required at 15' Maximum Spacing.
 7. Do not turn radius in front of adjacent property without written permission from adjacent property owner.
 8. Commercial an industrial driveway approaches may be thicker or approved by the City Engineer.

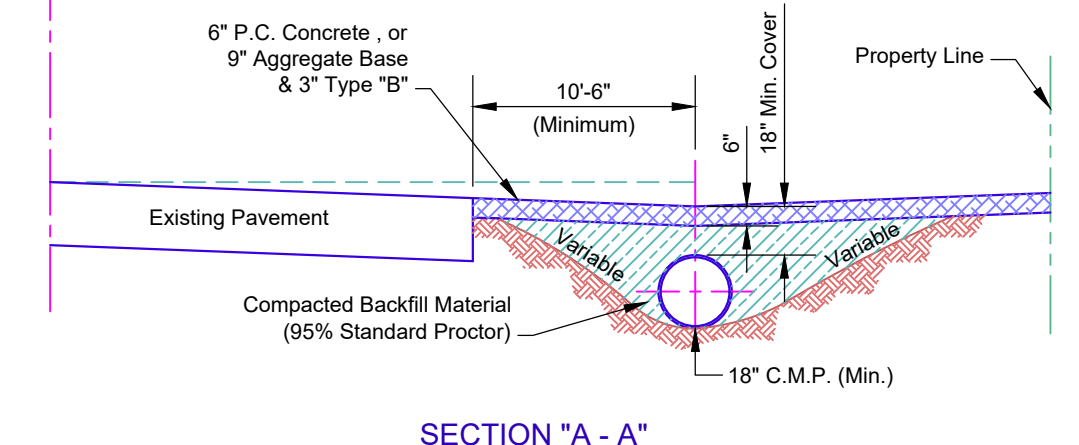
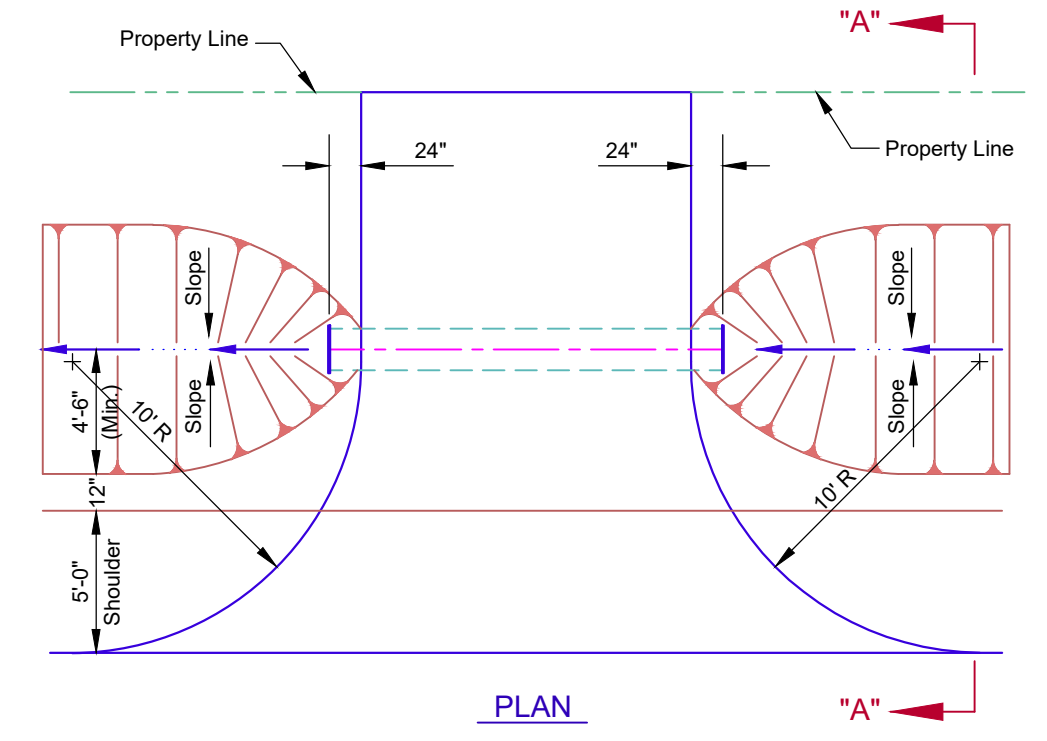
DRIVEWAY DETAILS
 -310-



SECTION "A - A"
DRIVEWAY DETAILS FOR RURAL ESTATES DEVELOPMENT
 • 320 •

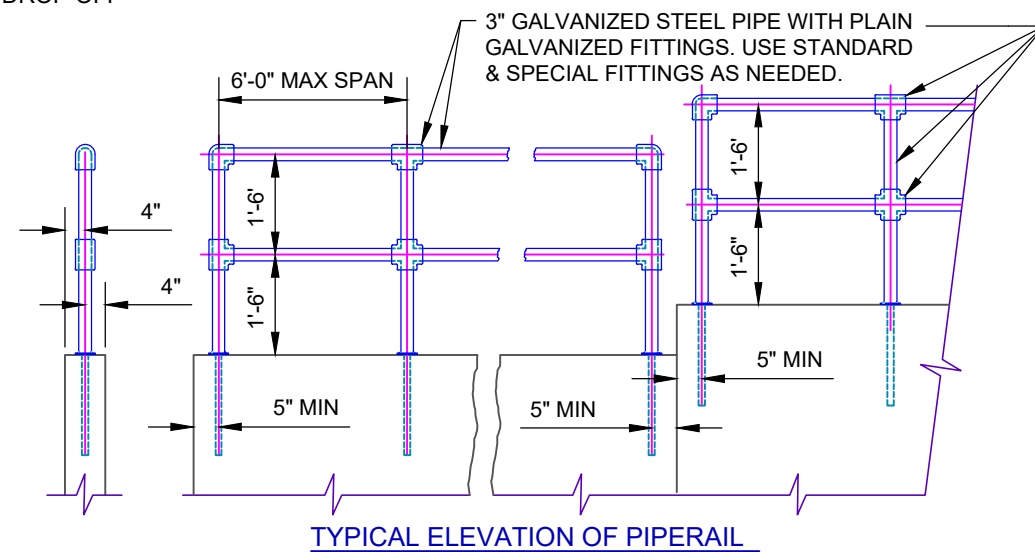
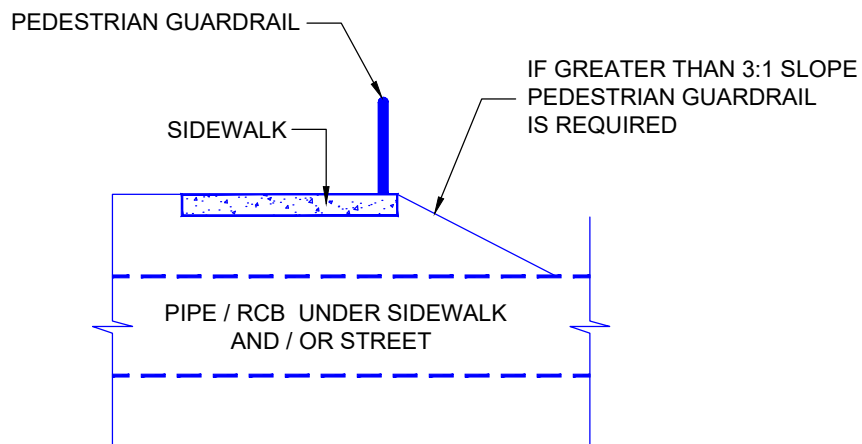
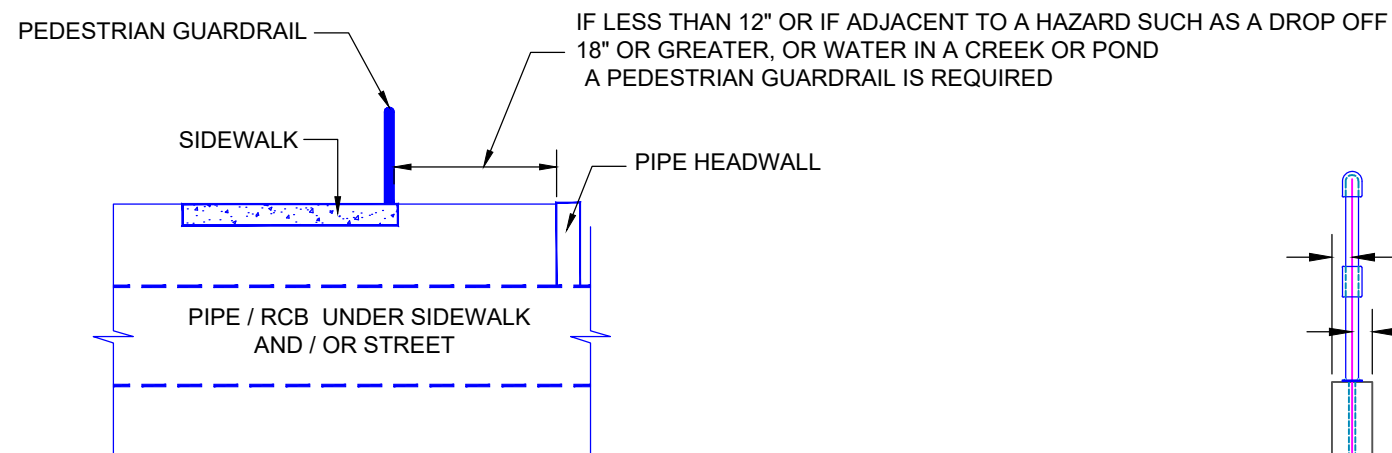
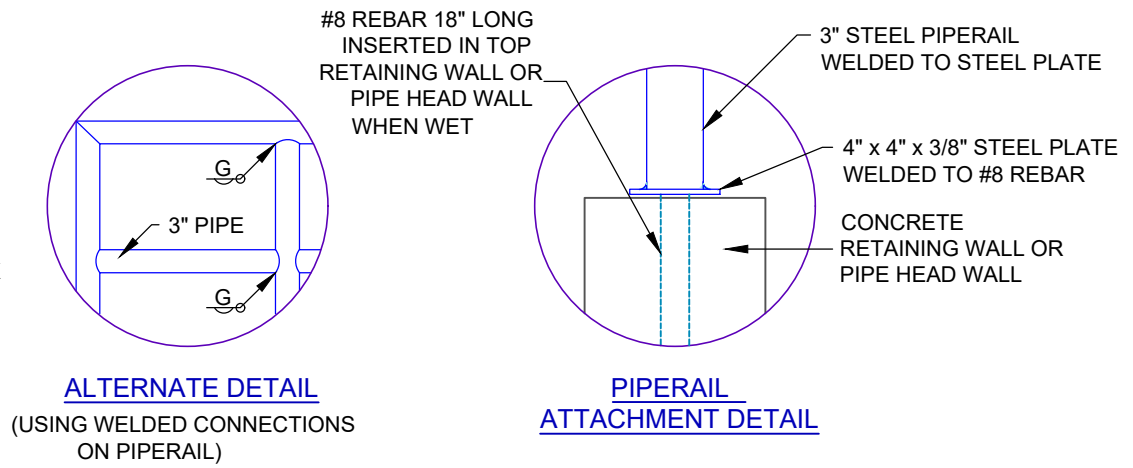
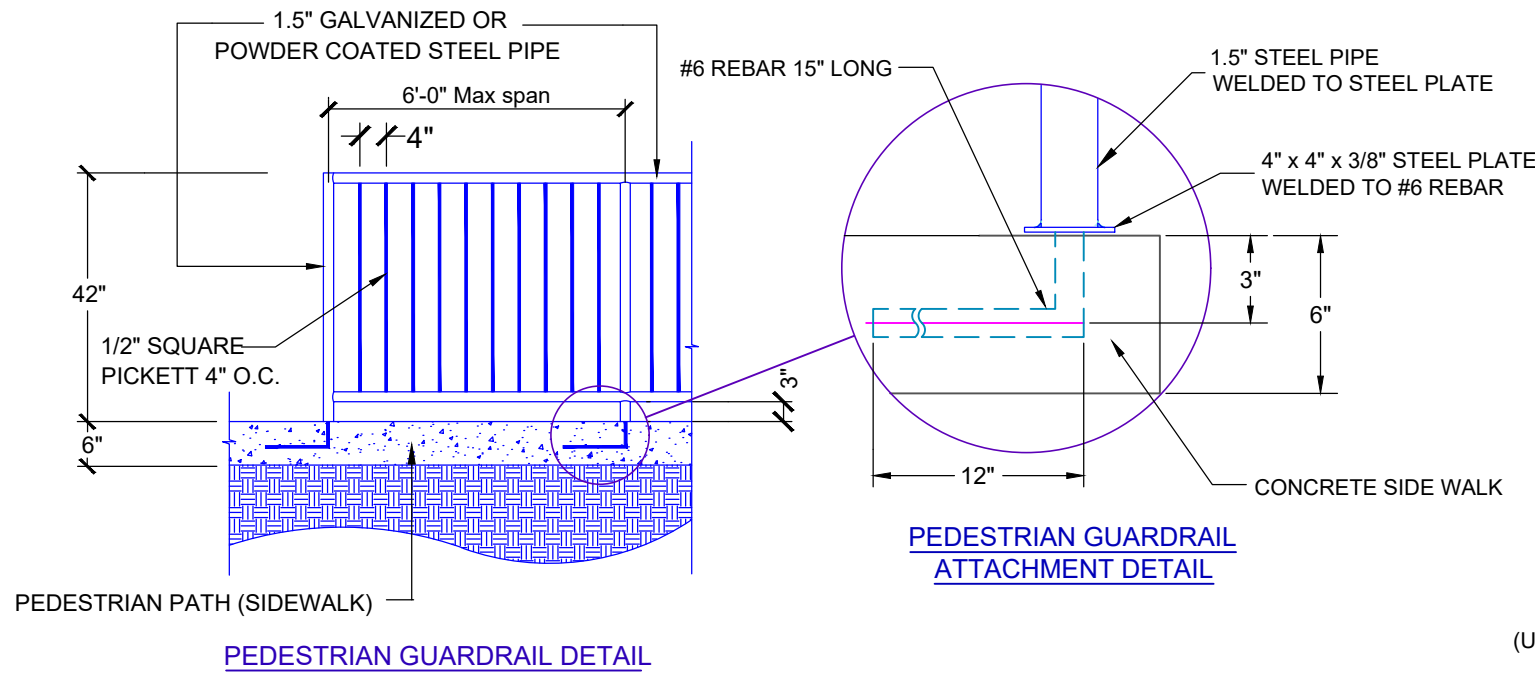


SECTION "A - A"
DRIVEWAY DETAILS FOR AGRICULTURAL ESTATES
 R - 1 ZONING
 • 330 •



SECTION "A - A"
TEMPORARY DRIVEWAY DETAILS
 FOR OIL FIELD DEVELOPMENT ACCESS
 • 340 •

\\ci.okc\okc\pw-cad\nguyen\Drawing\Hanger B\STANDARD\APPROVED\SIDEWALK HANDRAIL DETAIL-U.dwg, 4/12/2023 12:36:26 PM, DWG To PDF.pc3



NOTES:

1. VERTICAL STEEL PIPE TO BE SET ON 6" CENTERS, 4" CLEAR FROM BACK EDGE OF SIDEWALK.
2. MATERIALS SHALL BE COMPLY WITH THE STD. SPECIFICATIONS. SUBMIT SHOP DRAWING FOR APPROVAL PRIOR TO FABRICATION.

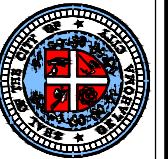
PIPERAIL NOTES:

1. A PIPERAIL SHALL BE PLACED ON RETAINING WALLS AND PIPE HEADWALLS WITHIN PUBLIC ROW OR UTILITY / DRAINAGE EASEMENT WITH A DROP OFF OF 18" OR GREATER.
2. WELDED CONNECTIONS MAY BE USED FOR PIPERAILS. WELDED CONNECTIONS SHALL BE THOROUGHLY CLEANED OF ALL LOOSE SCALE, GROUND SMOOTH AND SPOT PAINTED WITH TWO COATS OF ZINC RICH PAINT.
3. SHOP DETAILS FOR ALL PIPERAILS SHALL BE SUBMITTED FOR APPROVAL.
4. PIPERAIL MAY BE OMITTED BY THE CITY ENGINEER.

GENERAL NOTES:

1. ALL CONSTRUCTION AND MATERIAL SHALL BE IN ACCORDANCE WITH THE OKLAHOMA CITY STANDARD SPECIFICATIONS
2. ALL EXPOSED CONCRETE EDGES SHALL HAVE A 3/4" CHAMFER.
3. ALL CONCRETE SHALL BE CLASS "A" CONCRETE 3000 PSI.
4. EXPANSION JOINTS SHALL BE AT A MAXIMUM OF 30'-0" INTERVALS.
5. ALL REINFORCING STEEL BARS SHALL BE DEFORMED BARS COLD BENT, NO WELDS PERMITTED.
6. ALL EXPOSED CONCRETE SURFACES SHALL HAVE A VERTICAL LIGHT BROOM FINISH.
7. ALL PEDESTRIAN GUARDRAIL AND PIPERAIL MATERIAL SHALL BE GALVANIZED OR POWDER COATED.

The City of
Oklahoma City
Public Works Department
Engineering Division

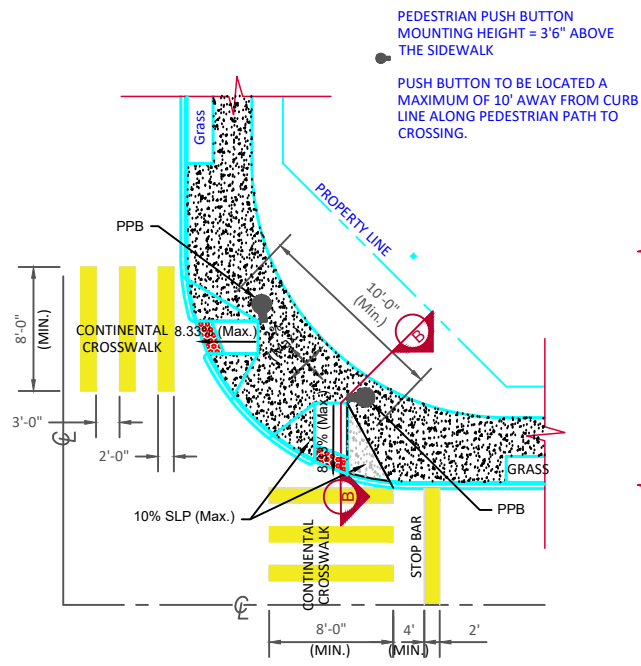


APPROVED BY: DATE: 2-22-2023
ERIC J. WENGER, P.E.
CITY ENGINEER

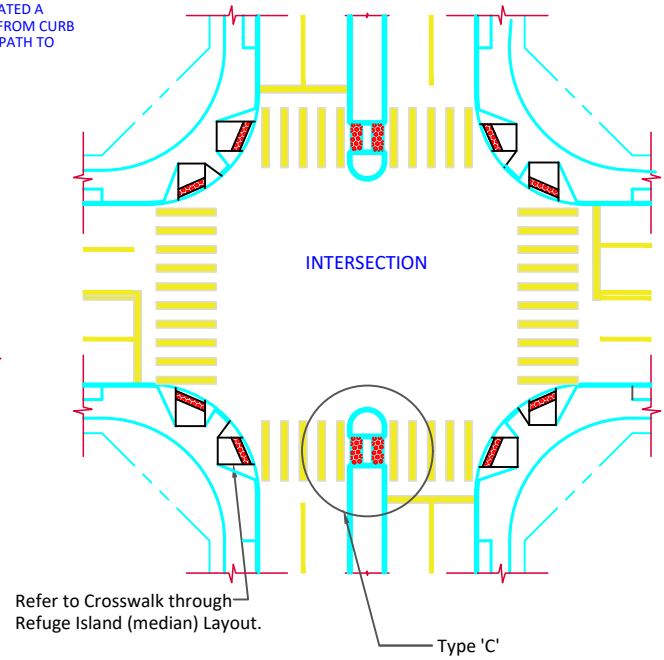
DRAWN: TYN
DATE: 2-22-2023

**PEDESTRIAN GUARDRAIL AND
PIPERAIL DETAIL**

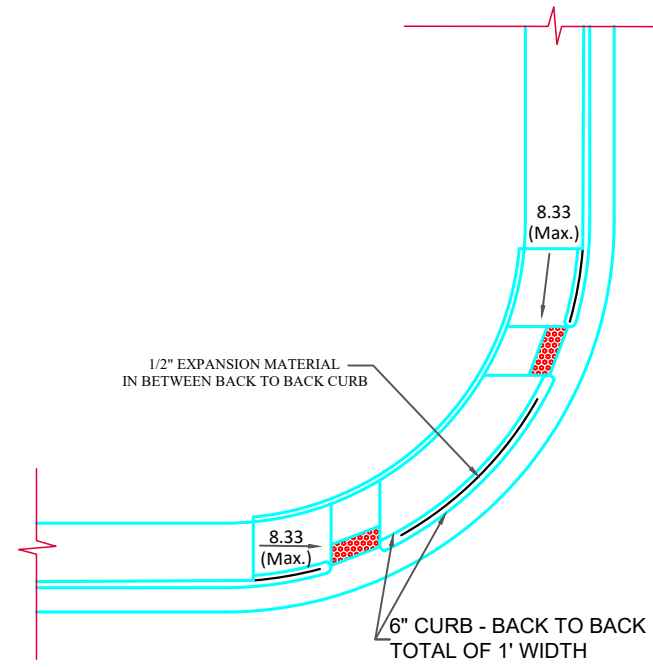
Drawing Number
D-505



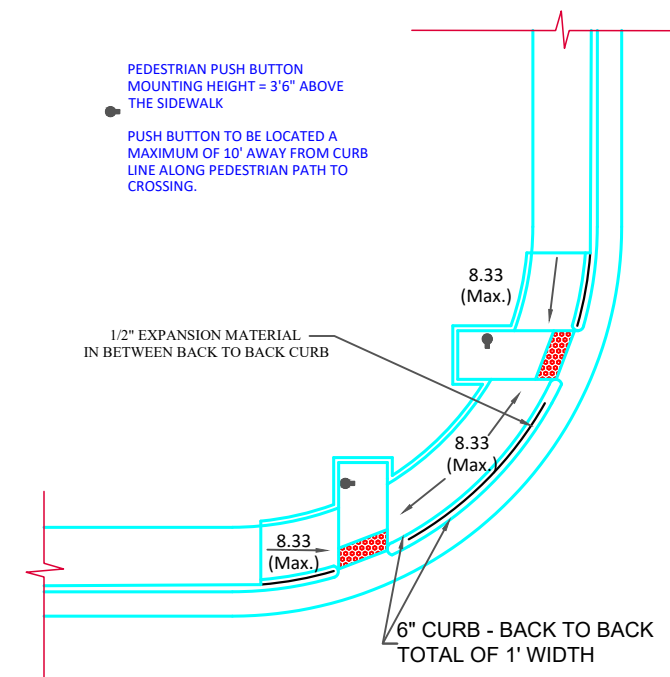
CURB RAMP TYPE "A"



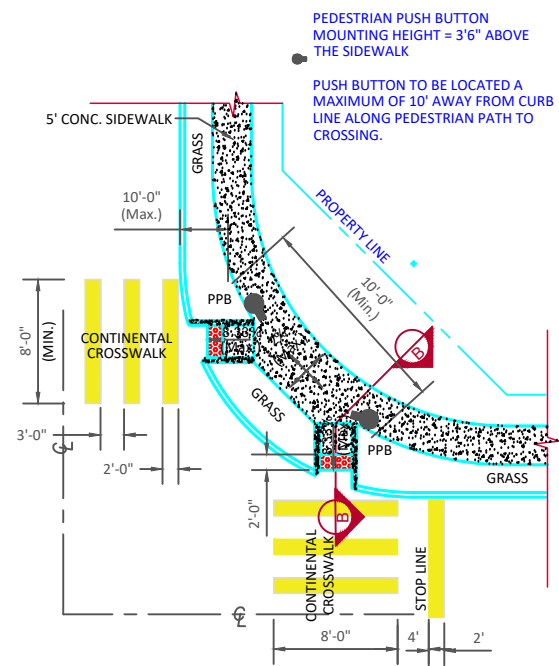
INTERSECTION WITH REFUGE ISLANDS LAYOUT



BACK OF CURB RAMP WITHOUT PEDESTRIAN PUSH BUTTON TYPE "G"

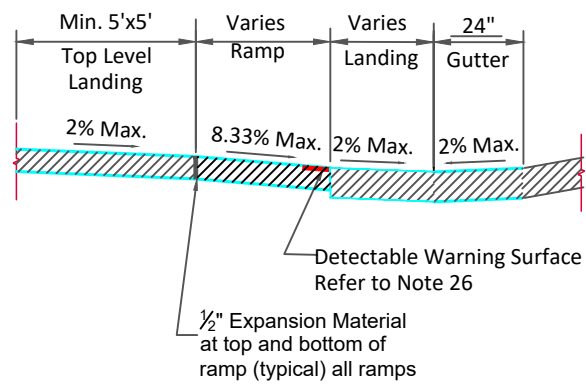


BACK OF CURB RAMP WITH PEDESTRIAN PUSH BUTTON TYPE "G"

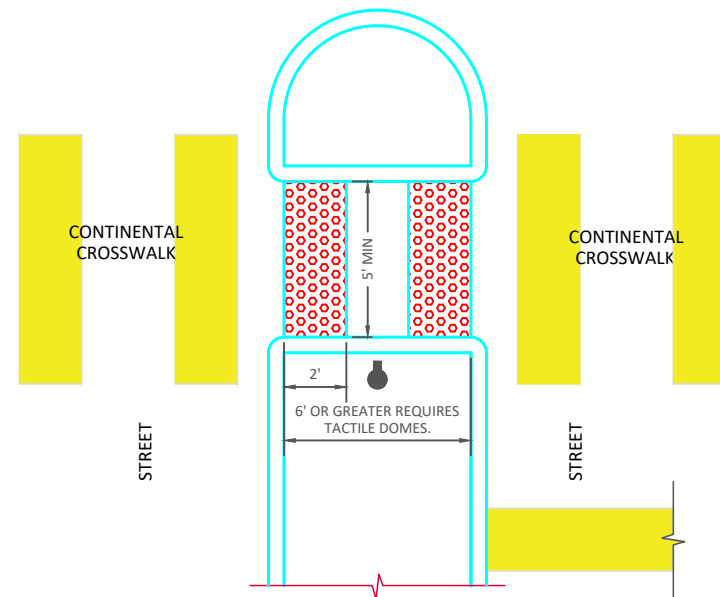


CURB RAMP TYPE "B"

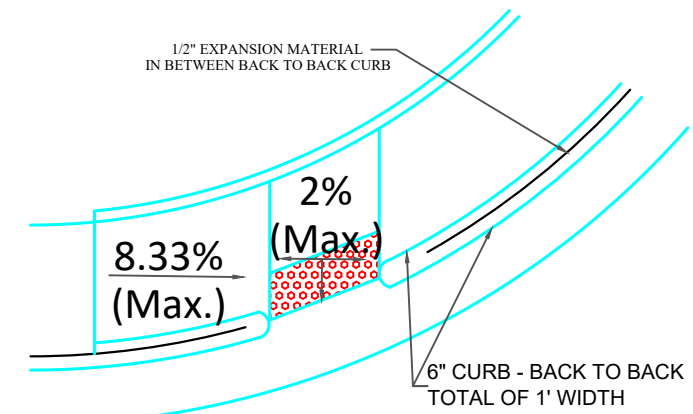
See Detail 1 & Detail 2 (Sheet B)



SECTION B-B



STANDARD CROSSWALK THROUGH MEDIAN LAYOUT TYPE "C"



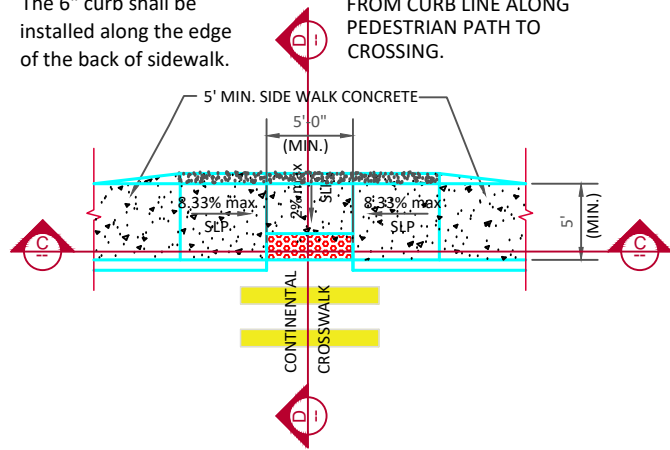
DETAIL OF TYPE "G" RAMP



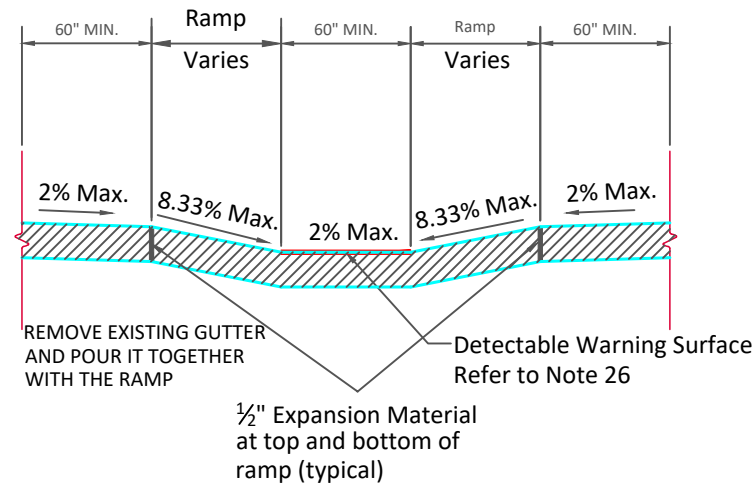
APPROVED BY: *Eric J. Wenger* DATE: 6/22/2023
ERIC J. WENGER, P.E. CITY ENGINEER
DRAWN: VSC
DATE:

Curb-Ramp shall be used on narrow sidewalk or at mid block locations when standard curb ramp lay-out is not feasible. The 6" curb shall be installed along the edge of the back of sidewalk.

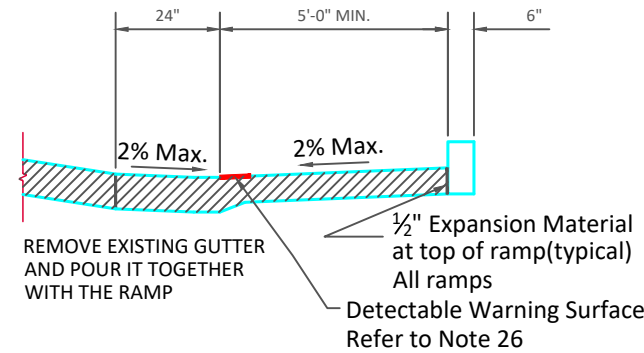
- PEDESTRIAN PUSH BUTTON MOUNTING HEIGHT = 3'6" ABOVE THE SIDEWALK
- PUSH BUTTON TO BE LOCATED A MAXIMUM OF 10' AWAY FROM CURB LINE ALONG PEDESTRIAN PATH TO CROSSING.



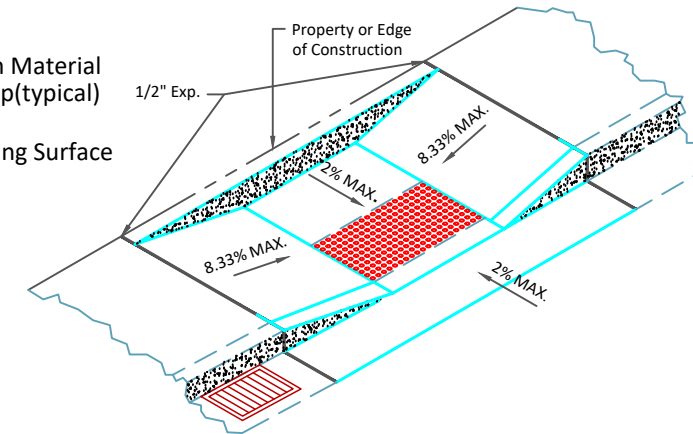
PARALLEL CURB RAMP TYPE "D"



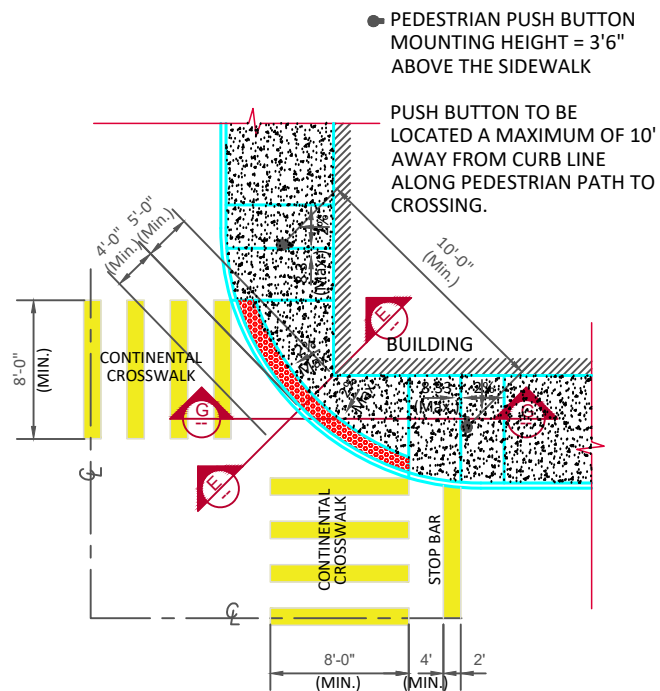
SECTION C-C



SECTION D-D
See Detail 2 for Isometric View



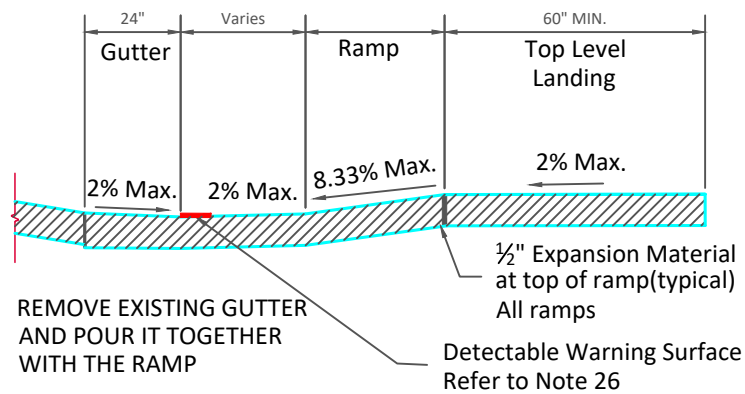
DETAIL 2 TYPE D
Isometric



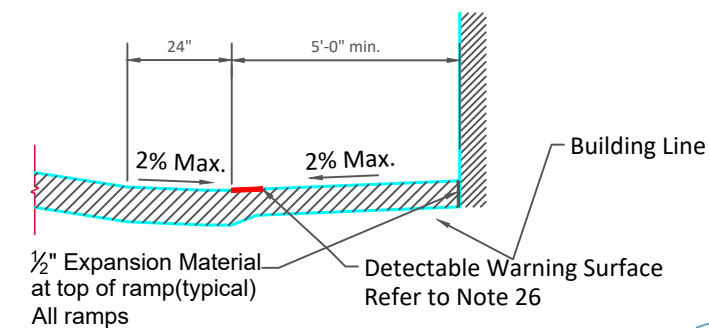
RADIUS CURB RAMP TYPE "E"

See Detail 3 for Isometric View

Written approval by the City Engineer is required.

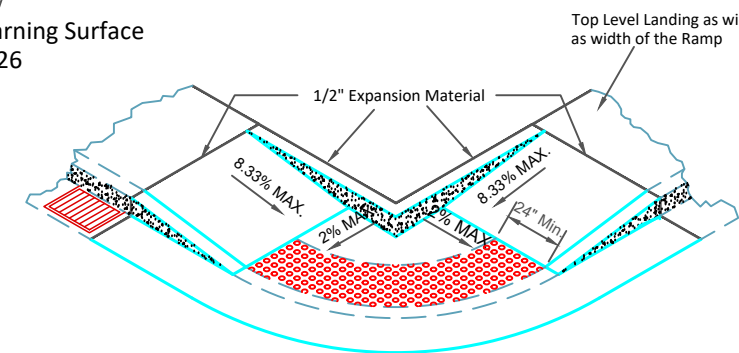


SECTION G-G TYPE "E"

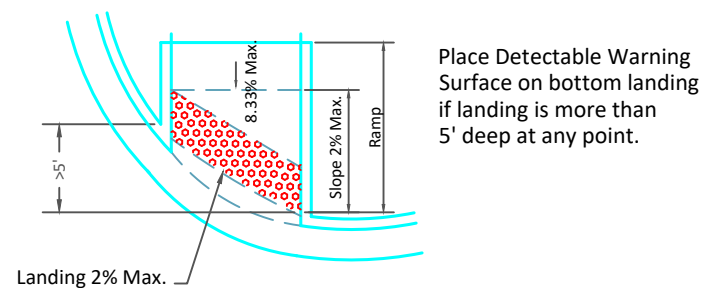


SECTION E-E TYPE "E"

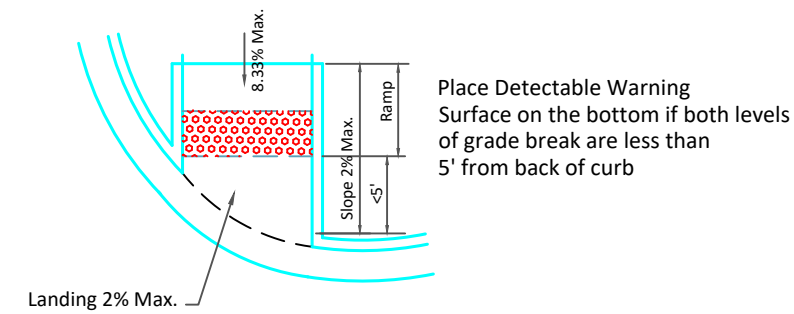
See Detail 3 for Isometric View



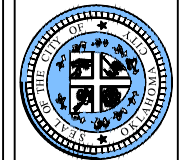
DETAIL 3 TYPE E
Isometric



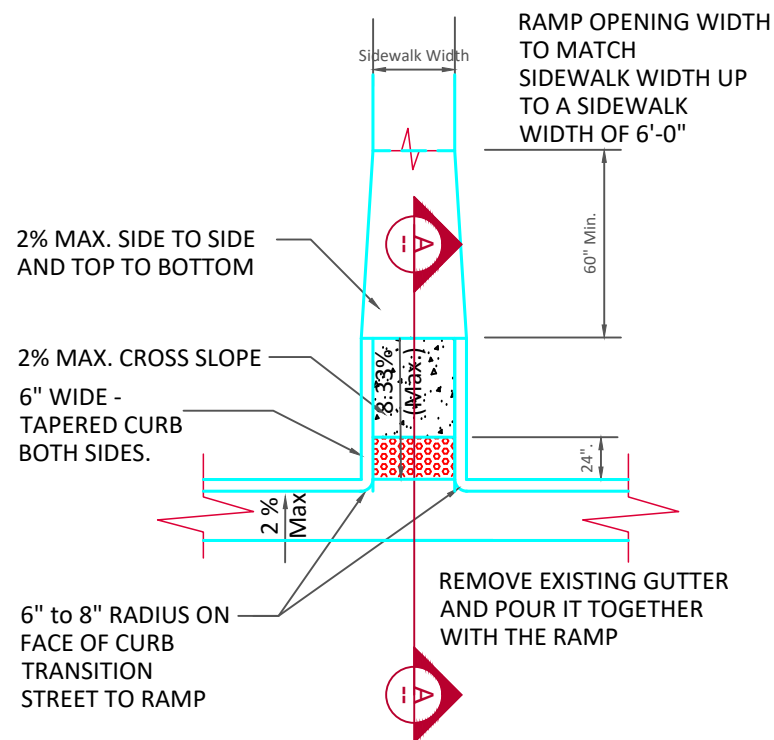
DETAIL 1



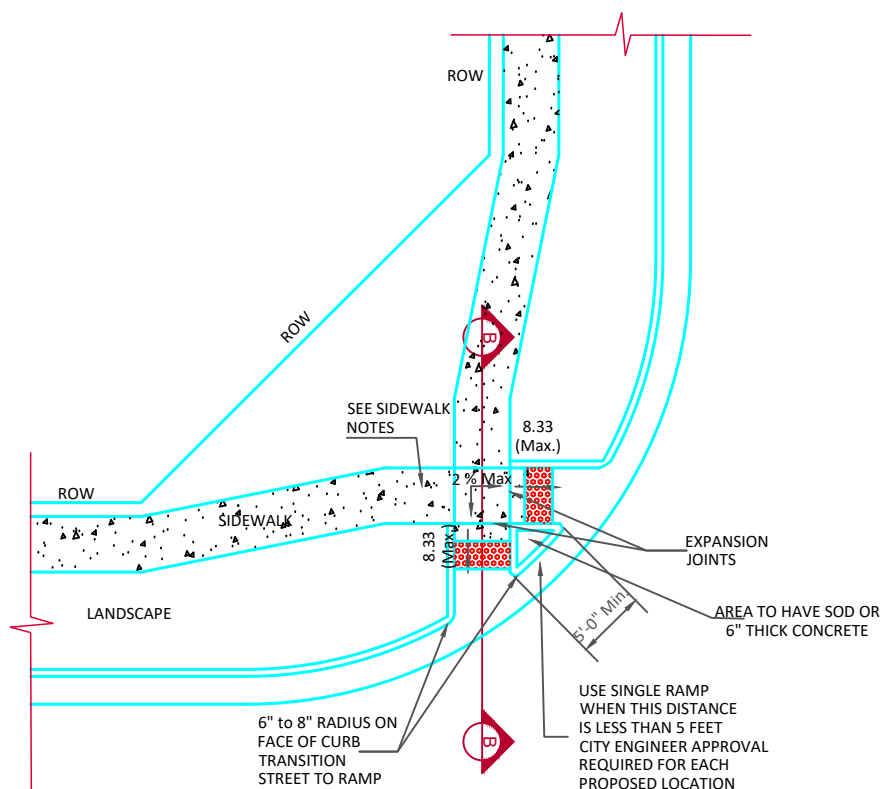
DETAIL 2



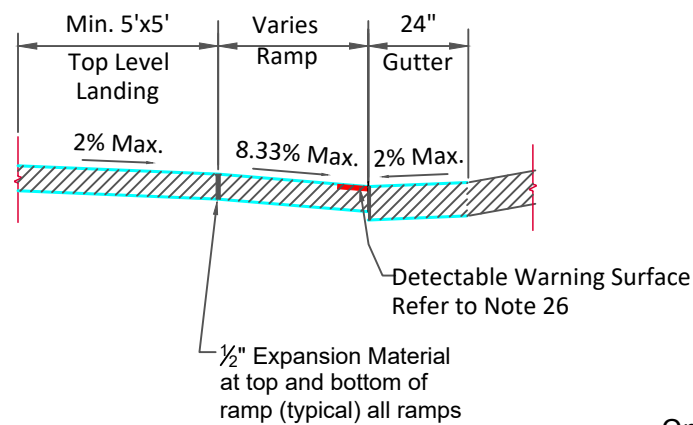
APPROVED BY:	DATE: 6/22/2023
ERIC J. WENGER, P.E. CITY ENGINEER	
DRAWN:	VSC
DATE:	



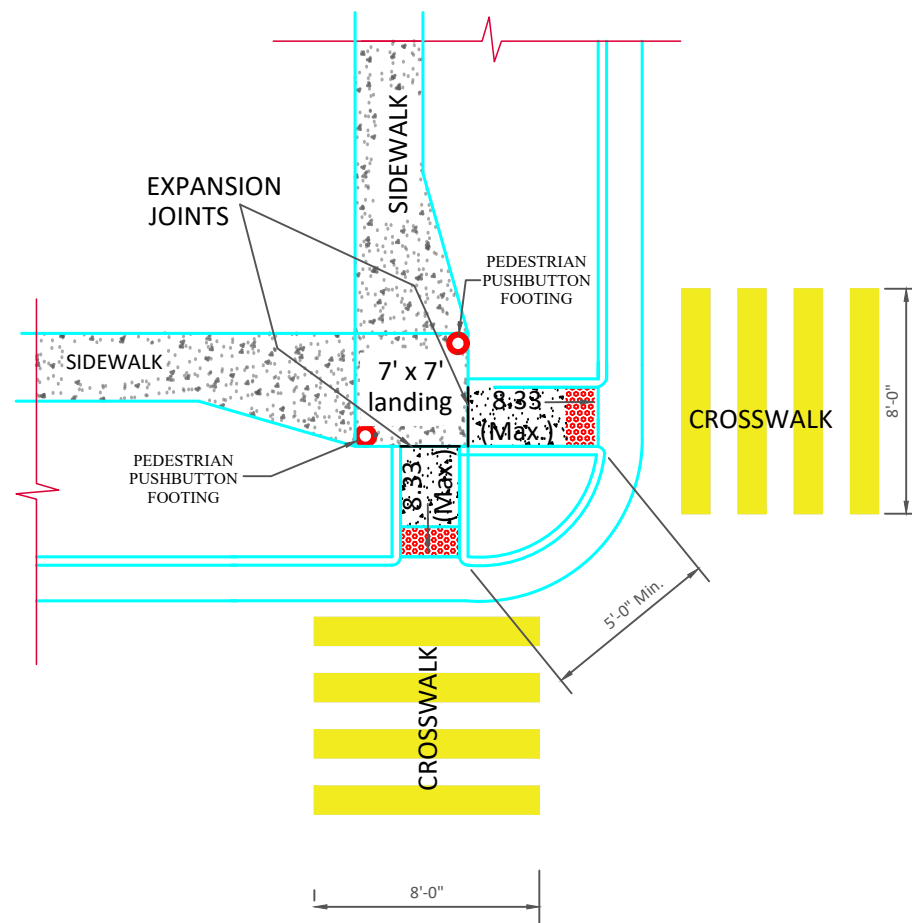
METHOD OF TRANSITIONING A RAMP WITH DIE OUT CURBS



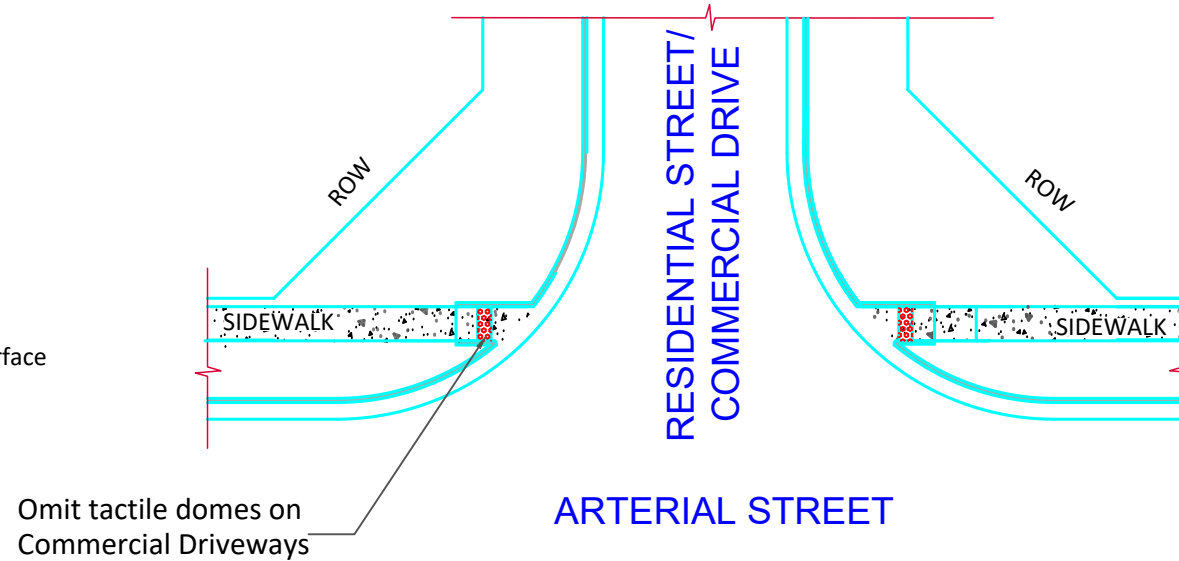
RESIDENTIAL CURB RAMP TYPE "F"



SECTION A-A



SHARED LANDING AT SIGNALIZED INTERSECTIONS

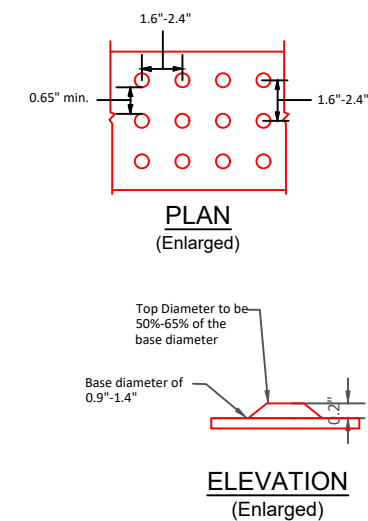


ARTERIAL / MINOR STREET RAMPS (OR COMMERCIAL DRIVES)

DETAIL 1

Detectable Warning Surface Specifications:

- Must provide a Visual Contrast.
- Raised Tactile surfaces used for way finding.
- Detectable Warning Surface shall be installed in a manner such that the domes are parallel to the direction of pedestrian travel.
- Install the Detectable Warning Surface beginning at back of curb.



DETECTABLE WARNING SURFACE PATTERN LAYOUT

The City of
Oklahoma City
Public Works Department
Engineering Division



APPROVED BY: *[Signature]* DATE: 6/22/2023
ERIC J. WENGER, P.E. CITY ENGINEER
DRAWN: VSC
DATE:

**ADA CURB RAMP DETAILS
RESIDENTIAL STREETS
COMMERCIAL DRIVES**

Drawing Number
D-700



Sidewalk Notes:

1. All work must meet current Americans with Disabilities Act (ADA) requirements.
2. Minimum sidewalk width shall be as follows: residential, 5'-0" at curb, 4'-0" at property line; commercial, 6'-0" at curb, 5'-0" at property line.
3. Sidewalk cross slope shall be a maximum of 2% and a minimum of 1/2% cross slope.
4. Whenever the width of the sidewalk is less than 5'-0", a 5' x 5' passing area with a maximum 2% slope and minimum 1/2% slope in any direction at intervals of 200' shall be installed.
5. Whenever changing direction in a sidewalk, install a 5' x 5' passing area with maximum 2% slope and minimum 1/2% slope in any direction.
6. Objects such as tree branches, signs, water fountains, etc. shall not protrude into the sidewalk more than 4" at the heights between 27" and 80".
7. Sidewalk shall be constructed of 4" thick concrete with medium broom finish on top of 2" of 1.5" crusher run, 3/8" rock screenings, 1.5" clean recycled concrete or approved equal. Developers of Residential Neighborhoods are allowed the usage of 2" of sand instead of the required crusher run.
8. All obstructions into the walk, such as power poles, hydrants, sign posts, etc. must have at least 48" of clear travel space around the obstruction.
9. Sidewalk running grade shall not exceed 5% unless the sidewalk is contained in the R-O-W and then cannot exceed the general grade established for the adjacent street.

General Notes:

10. Any deviation from the standard curb-ramp plans shall be approved by the City Engineer or his designee on a case by case basis.
11. The standard curb-ramp drawings supersede all previous drawings and shall be a part of the new curb ramp standard drawings.
12. All alternate ramps shall be approved by the City Engineer or his designee prior to construction.
13. Seal all sawed joints on sidewalks, landings and ramps. Width of expansion joint shall be 1/2"

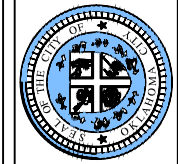
Pedestrian Signals Notes:

14. Push button must be located adjacent to and accessible from a landing.
15. A clear space of 30" x 48" minimum dimension must be next to the push button.
16. Maximum reach to a push button can not exceed 10".

Curb Ramp Notes:

17. A curb ramp is defined as the entire concrete surface which includes the ramp and flared sides. The minimum 4' wide center portion, including the Detectable Warning Surface, shall have a sloped plane of 8.33% (1:12) maximum, and cross slope, not to exceed 2%. The "flared side" of the ramp shall lie on a slope of 10% (1:10) maximum measured along the curb. The curb ramp shall have a surface tolerance of 1/4" per 10 foot straight edge maximum.
18. The ramp center line and path of travel should be parallel to the sidewalk whenever possible. The full width of the ramp shall lie within the crosswalk area. It is desirable that the location of the ramp be as close as possible to the center of the crosswalk.
19. Curb Ramps shall not exceed 15' in length unless otherwise directed by the City Engineer.
20. Existing utility boxes and covers shall be adjusted flush with the curb ramp surface and shall not straddle any change in plane or material. Existing utility box frames and covers shall have matching surface finish on the entire frame and cover. New utility boxes shall not be placed within the accessible pathway.
21. The surface of the curb ramp and Detectable Warning Surface material shall be stable, firm and slip resistant. The concrete curb ramp surface shall be medium broom finished transverse to the axis of the ramp and shall be slightly rougher than the finish of the adjacent sidewalk surface.
22. A level landing 5'-0" deep, with a 2% maximum slope in each direction shall be provided at the upper end of each curb ramp to allow safe egress from the ramp surfaces. The width of the level landing shall be at least as wide as the width of the ramp. A clear space of a minimum of 30" wide x 48" deep shall be provided at pedestrian push buttons at signalized crossings. This space may be contained in the landing.
23. Existing vertical utility poles or street light poles may be incorporated into the flared sides, if necessary. The vertical obstruction shall be a minimum of 6" away from edge of the ramp. Pedestrian crosswalks push button poles, fire department call boxes and other poles with activated devices, may not be placed in the curb-ramp at any time. No new vertical obstructions may be located in the curb ramp or the accessible pathway.
24. Ramp opening shall be the same width as the sidewalk up to 6'-0" wide.
25. Curb Ramp shall be constructed with 8" thick concrete at collector and arterial streets; and with 6" thick concrete at residential streets. All on top of 2" of 1.5" crusher run, 3/8" rock screenings, 1.5" recycled concrete or approved equal. The 6" thick concrete will extend the maximum length of 6' from the face of curb and the 8" thick concrete will extend the maximum length of 8' from the face of curb. The remainder of the ramp will be constructed of 4" thick concrete and paid as sidewalk. All landings and incidental connections will be paid as sidewalk and will be constructed of 4" thick concrete. A 6" concrete curb will be constructed on each side of the ramp where 1:10 concrete slopes are not used.
26. For new construction all Detectable Warning Surfaces are to be set in concrete. Surface applied domes require special written approval by the City Engineer.
27. Curb ramp pay items shall only be used at street intersections, signalized driveways or alleys with tactile domes.
28. Where feasible, ramps shall align in such a way that the pedestrian travel path shall provide a direct path to corresponding ramp. Ramps that require pedestrians to change direction of travel in the street or driveway shall require City Engineer approval.
29. Where a ramp ties into an existing curb and gutter, the entire curb and gutter shall be removed and replaced extending 2 feet past the width of the ramp on each side.

The City of
Oklahoma City
Public Works Department
Engineering Division

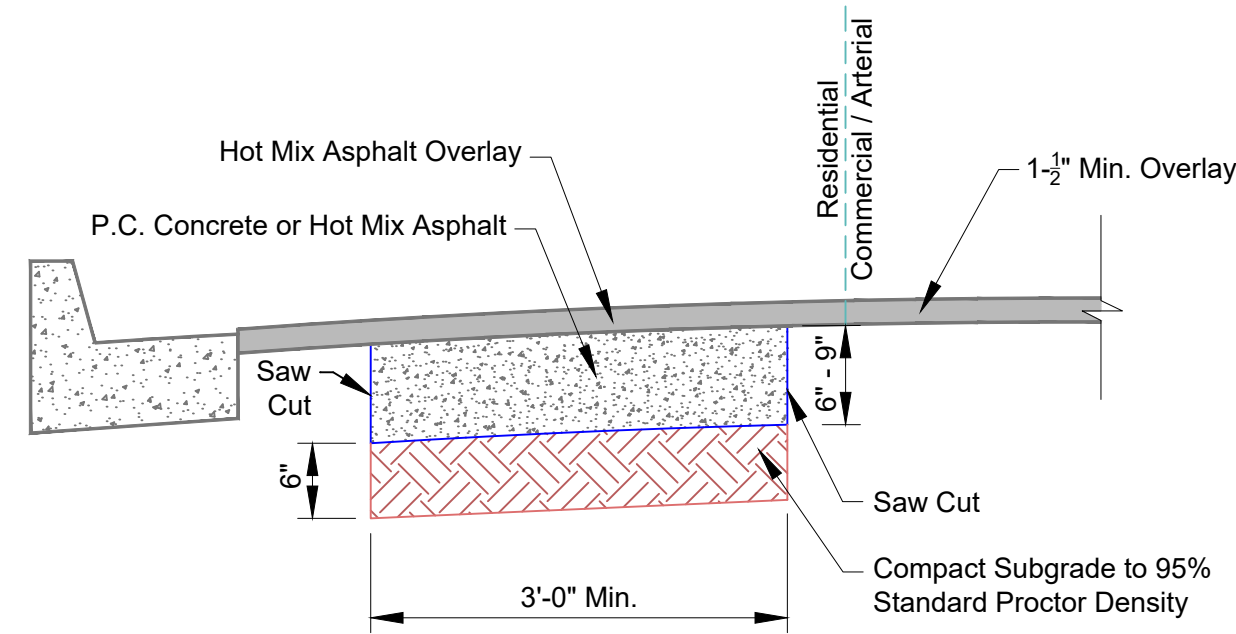


APPROVED BY:	DATE:
	6/22/2023
ERIC J. WENGER, P.E. CITY ENGINEER	
DRAWN:	VSC
DATE:	

ADA CURB RAMP DETAILS

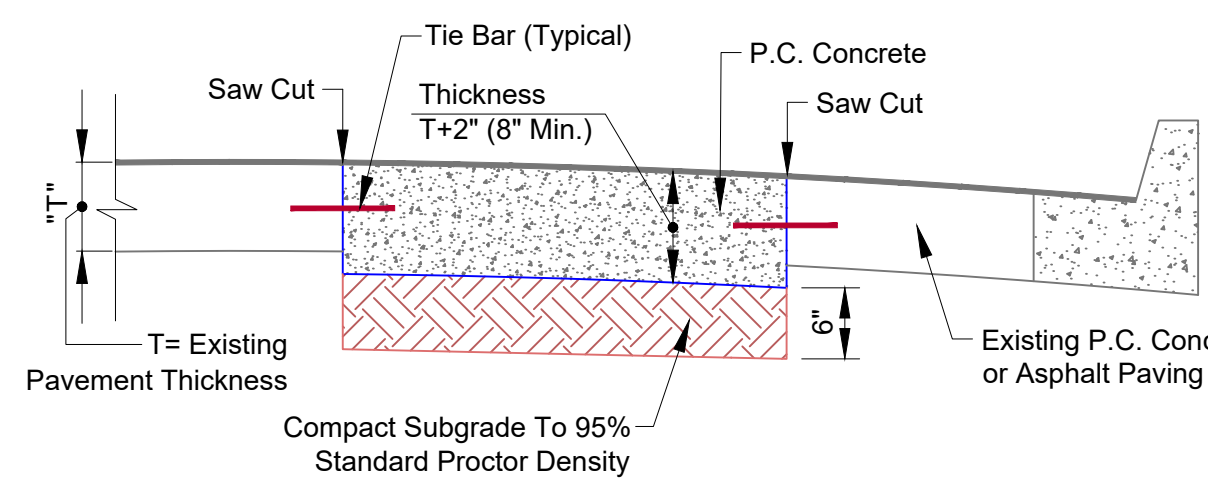
Drawing Number
D-700
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**ACTIVE RESURFACING PROJECTS
PAVEMENT REPAIR DETAILS
HOT MIX ASPHALT (HMA) OVERLAY**



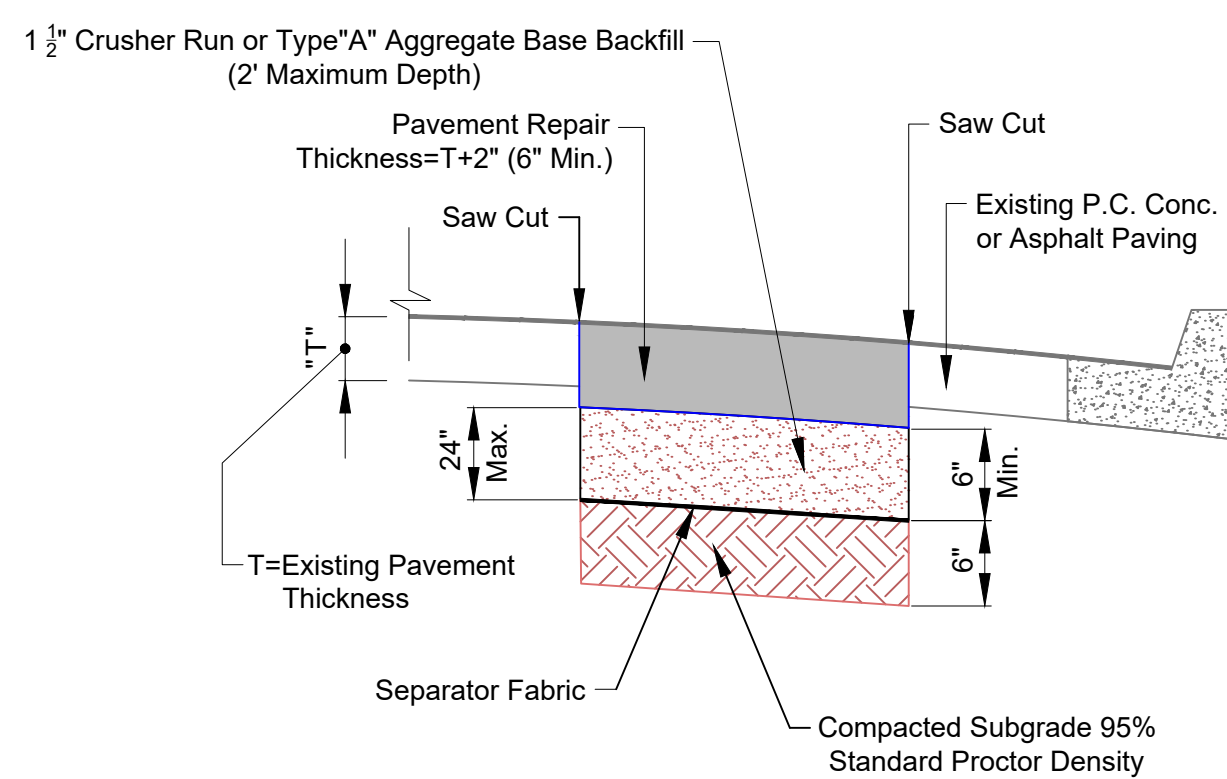
- NOTES:**
1. Pavement repairs includes removal of Asphalt or P.C. Concrete Pavement depending on existing conditions, saw cut should be included in price.
 2. Hot Mix Asphalt shall meet density specification

PAVEMENT REPAIR DETAILS



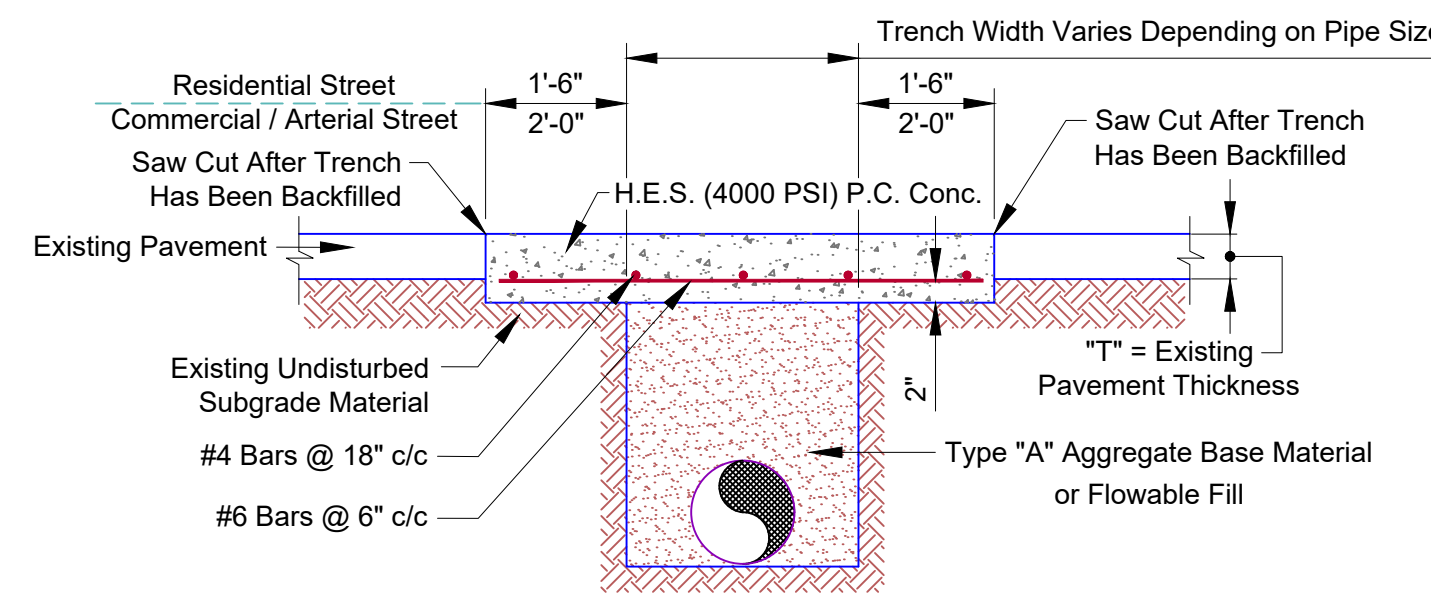
- NOTES:**
1. Remove existing concrete paving, to be included in price. Partial panel replacement not permitted, saw cut should be included in price.
 2. When utility trench is the reason for pavement repair, see typical permanent repair section for details on reinforcing steel, backfill material, and trench width, etc.
 3. Tie bars to be 1" dia. deformed bars (1 1/4" dia. for pavement 8" thick and greater) 18" length and spaced at 18" centers. Anchored with epoxy.
 4. For Transverse joints, use smooth bars with same dimensions as shown above. Only one end anchored with epoxy.
 5. Concrete panel to be double sawed 6" apart to protect the pavement edge during excavation.
 6. Use black colored concrete when repairing asphalt paving. Use Soloman Color's Color #920 and apply at 25 lbs per 2 CY of concrete.

**EXISTING ASPHALT OR CONCRETE
BASE REPAIR DETAIL**



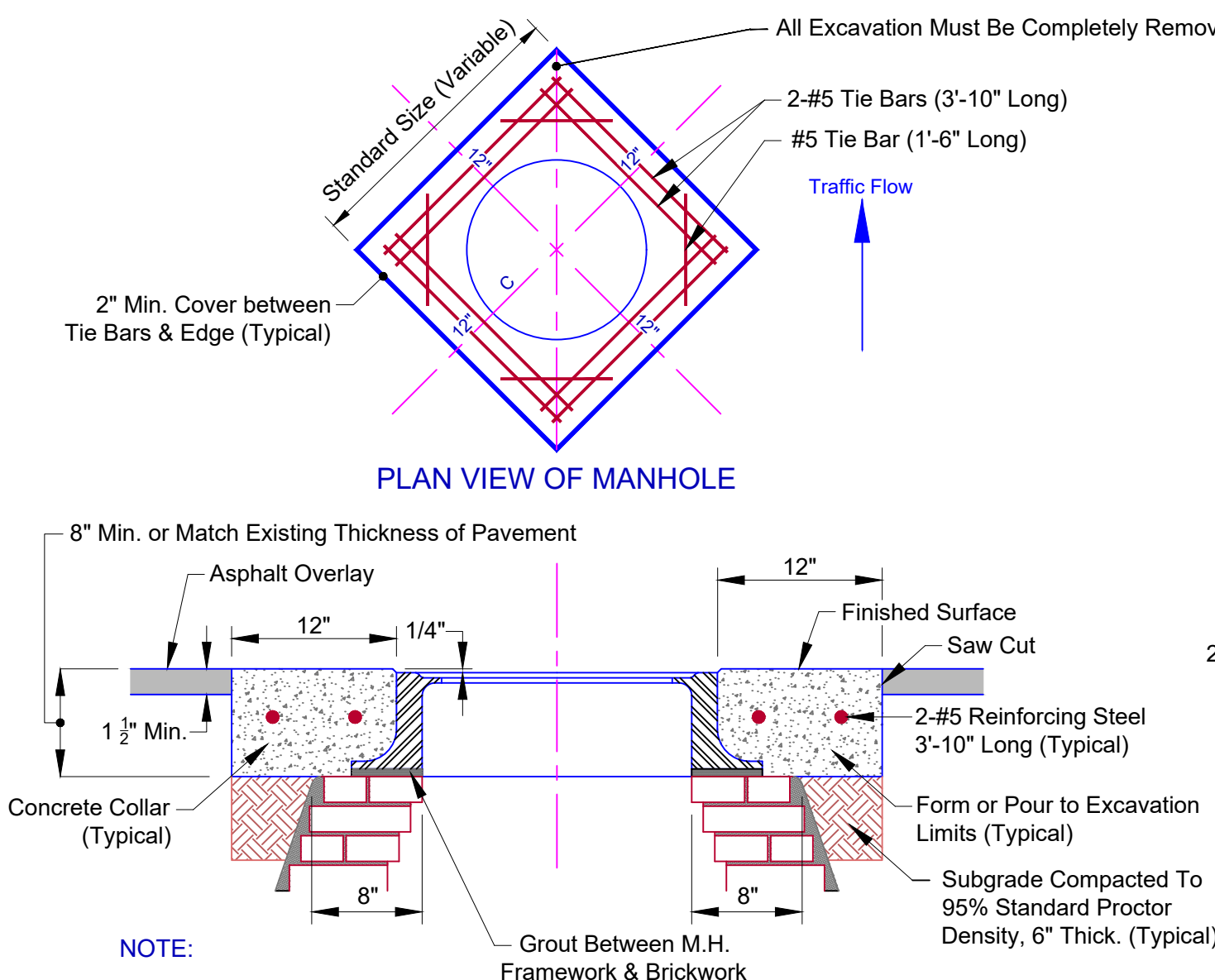
- NOTE:**
1. Excavation and aggregate base backfill begins at the bottom of the existing pavement and extends downward to a maximum depth of 2 feet.
 2. The contractor shall not begin the backfill operation until measurement of the excavation has been made and agreed upon by the engineer and the contractor.
 3. Backfill material will be placed in lifts not to exceed six inches (6") and compacted to 95% Standard Proctor Density.
 4. Subgrade compaction saw cut and separator fabric will not be paid for separately. Include cost in price bid for other items of work.
 5. Use black colored concrete when repairing asphalt paving. Use Soloman Color's Color #920 and apply at 25 lbs per 2 CY of concrete.

**UTILITY PAVEMENT CUT AND PERMANENT TRENCH REPAIR
TYPICAL REPAIR SECTION FOR CITY STREET**



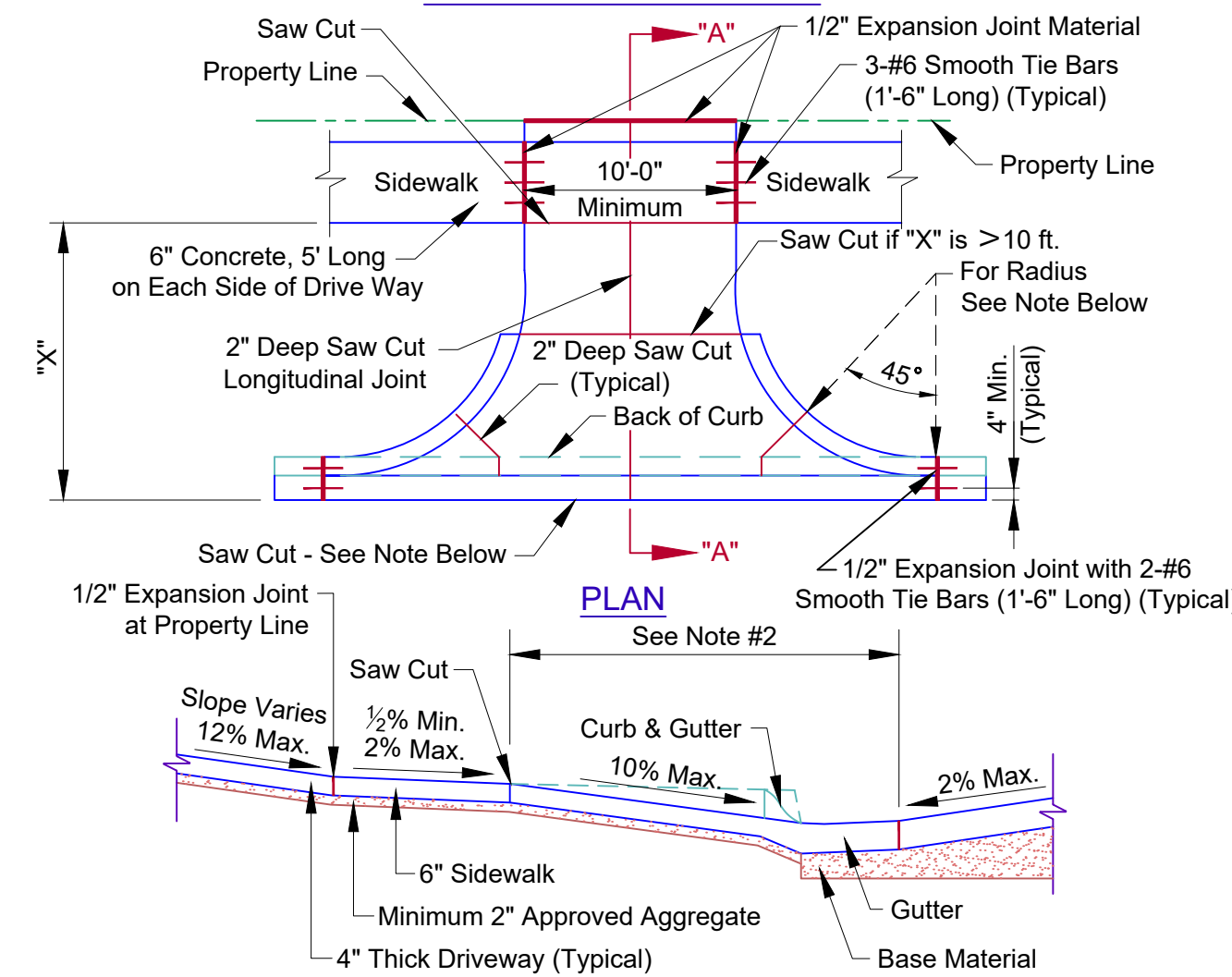
- NOTES:**
1. Aggregate base to be compacted 95% Standard Proctor Density in 6" lifts.
 2. The City Engineer may require full P.C. Concrete panel replacement depending on street location and functional classification.
 3. Thickness of repair shall be "T" + 2", but shall not be less than 10 inches.
 4. The cost of saw cut, removal, rebar and placement of compacted back fill to be included in price bid per square yard of repair unless otherwise stated in the contract documents.
 5. Use black colored concrete when repairing asphalt paving. Use Soloman Color's Color #920 and apply at 25 lbs per 2 CY of concrete.

ADJUSTMENT OF MANHOLE TO GRADE



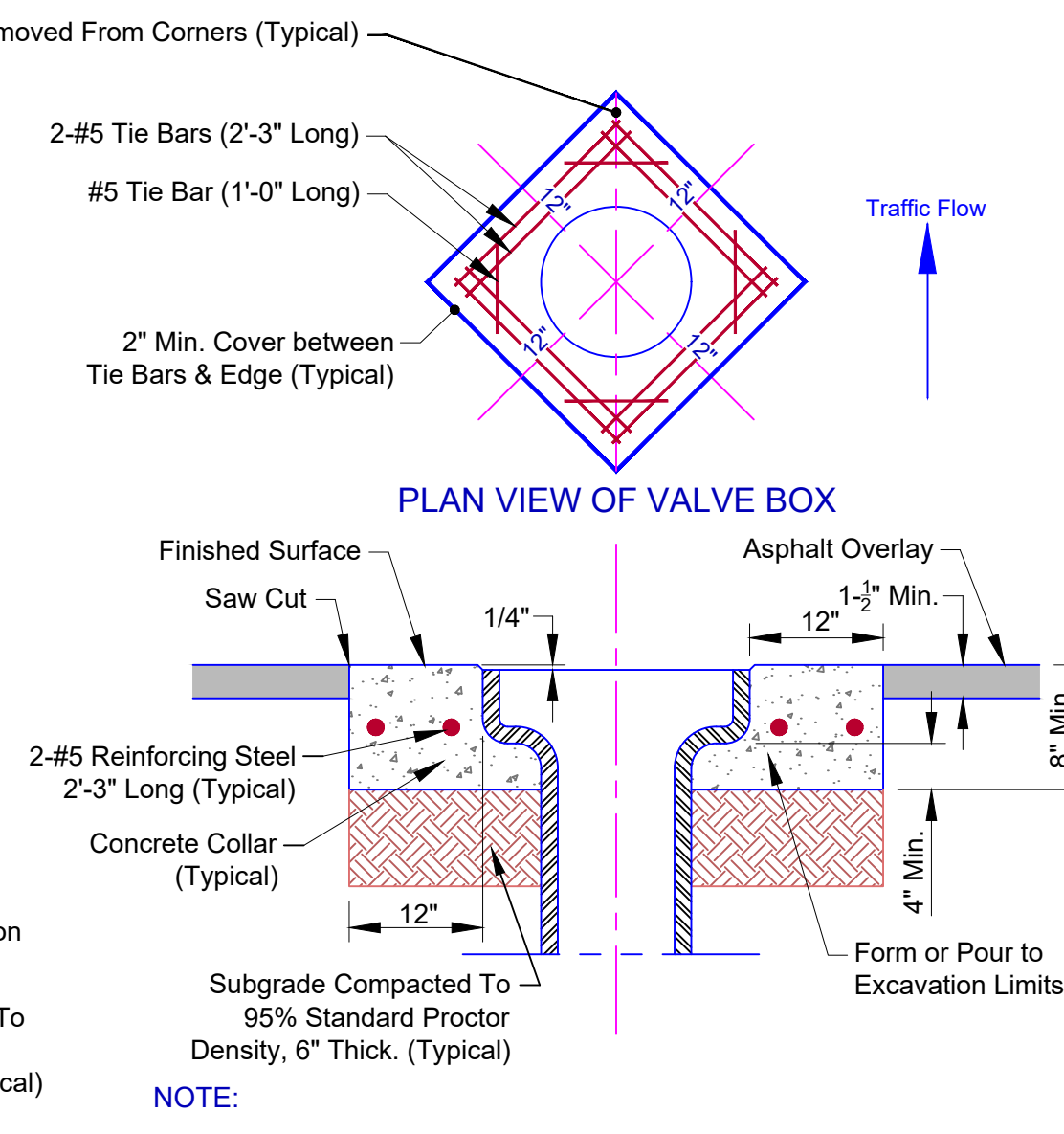
- NOTE:**
1. The manhole frame shall be set to grade and concrete collar poured after surfacing operations. Existing ring and lid must be replaced with Deeter Foundry, Inc., shown on drawing number 1197-0110 and 1197-2100 respectively, or approved equal. The top of the ring and lid must match exactly the existing pavement grade, both longitudinally and transversely.
 2. Concrete collar shall be H.E.S. Class AA 4000 PSI P.C. Concrete (3000 PSI in 24 hours). Concrete must be thoroughly vibrated. Contractor must call for inspection for verification of structure & dimensions before placing concrete.
 3. The work shall be protected by barriers and lights meeting MUTCD and shall not be removed for a period of 24 hours after the pour is made.
 4. Subgrade outside the limits of the manhole cone, must be compacted with mechanical compactor such as the "Wacker Packer" before placing concrete. The subgrade must be firm and unyielding.
 5. All excavation at the corners of the concrete collar must be removed so that it is a minimum of 8" thick for the full extent of the collar.
 6. Place one #5 reinforcing steel diagonal at each corner 4" from the edge of the manhole ring.

DRIVEWAY DETAIL



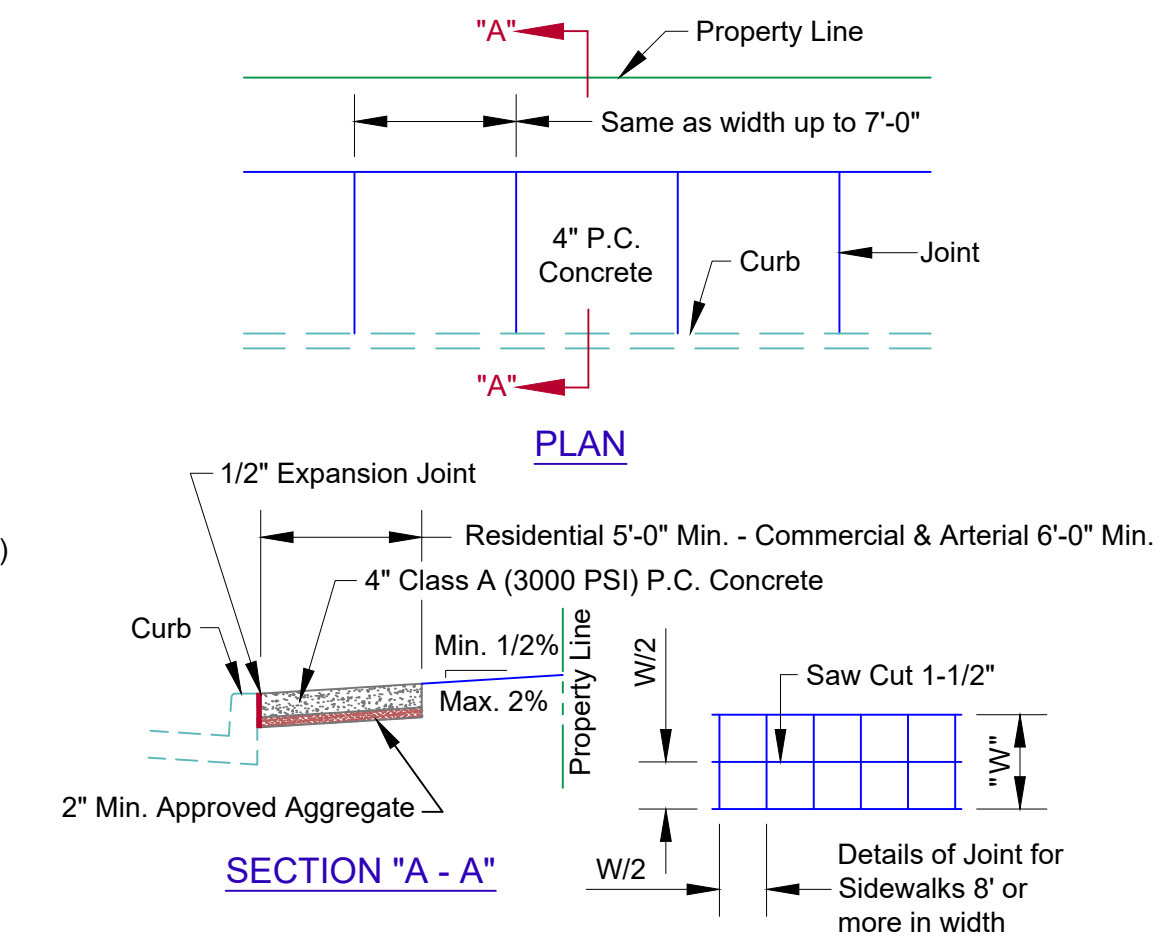
- NOTES:**
1. A 5' - 0" minimum radius is approved for one & two family residences not abutting a limited access or major street. All other Driveways will have a 10' - 0" minimum radius.
 2. The Driveway Contractor shall saw cut & remove the complete Curb and Gutter section. Saw cuts shall be 2" or 1/3 the depth of the gutter, whichever is greater, include the top & face of curb as well as the gutter, be made prior to the removal of concrete, and be full depth for removal and 2" or 1/3 the depth for crack control, whichever is greater.
 3. If a gutter holds water prior to any construction by driveway Contractor, he should notify the City Engineer of the situation before doing any work. The completed driveway work will not be accepted if the gutter holds water due to poor construction by the Contractor.
 4. It is recognized that this driveway detail will not cover every possible situation encountered in construction. Additional expansion joints will be required as needed.
 5. Clean and seal all joints and saw cuts in accordance with standard specifications.
 6. Longitudinal and Transverse Joints, required for drives greater than 12' wide. Saw cut 2" or 1/3 depth and fill with silicone sealant.
 7. Do not turn radius in front of adjacent property without written permission from adjacent property owner.
 8. When connecting a new sidewalk to an existing steep driveway, which cannot be made ADA compliant, the transition panel on each side of the driveway shall not be more than 5' in length, unless approved by the engineer.
 9. For a residential or commercial structure located below street level, the high point of the sidewalk where it crosses the driveway shall be at least 6" above the street gutter elevation.

ADJUSTMENT OF VALVE BOX TO GRADE



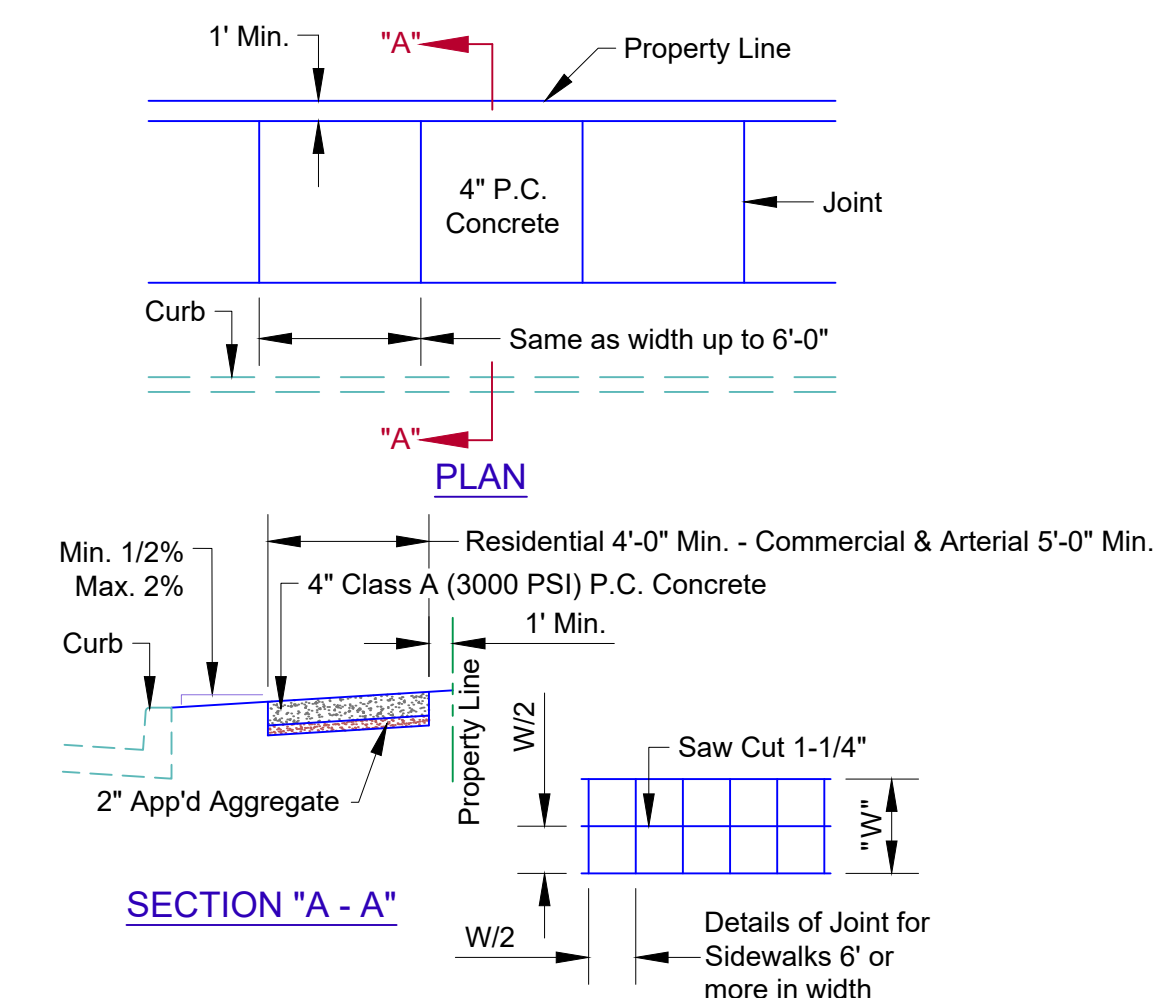
- NOTE:**
1. The valve box shall be set to grade and concrete collar poured after resurfacing operations. The top of the valve box must match exactly the existing pavement grade, both longitudinally and transversely.
 2. Concrete base shall be H.E.S. Class AA 4000 PSI P.C. Concrete (3000 PSI in 24 hours). Concrete must be thoroughly vibrated. Contractor must call for inspection for verification of structure & dimensions before placing concrete.
 3. The work shall be protected by barriers and lights meeting MUTCD and shall not be removed for a period of 24 hours after the pour is made.
 4. Subgrade outside the limits of the manhole cone, must be compacted with mechanical compactor such as the "Wacker Packer" before placing concrete. The subgrade must be firm and unyielding.
 5. All excavation at the corners of the concrete collar must be removed so that it is a minimum of 8" thick for the full extent of the collar.
 6. Place one #5 reinforcing steel diagonal at each corner 4" from the edge of the manhole ring.

**DETAILS FOR SIDEWALK
LOCATED AT CURB**

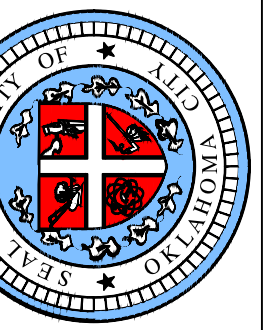


- NOTES:**
1. 1/2" x 4" premolded expansion material around Power Poles or other structures in walk, with at least 36" of clear travel space.
 2. Expansion joints maximum distance = 100', use 1/2" x 4" premolded expansion material.
 3. Transverse contraction joints maximum distance = 5', saw cut or Tool 1 1/4" deep.
 4. Saw cut joints within 24 hours or 12 hours if temperature is above 85°F.
 5. Use 1/2" x 4" premolded expansion joint behind curb or attached to curb.
 6. Medium broom finish (transverse).
 7. Use edger tool on all edges.

**DETAILS FOR SIDEWALK
LOCATED AWAY FROM CURB**



- NOTES:**
1. Place 1/2" premolded expansion material around Power Poles or other structures in walk, with at least 36" of clear travel space.
 2. Expansion joints maximum distance = 100', use 1/2" x 4" premolded expansion material.
 3. Transverse contraction joints maximum distance = 5', saw cut or tool 1 1/4" deep.
 4. Saw cut joints within 24 hours or 12 hours if temperature is above 85°F.
 5. Medium broom finish (transverse).
 6. Use edger tool on all edges.



APPROVED BY: *[Signature]* DATE: 6/22/2023
ERIC J. WENGER, P.E.
CITY ENGINEER
DRAWN: TVN
DATE: 5-18-22