CITY OF SALEM DEPARTMENT OF PUBLIC WORKS STANDARD DRAWINGS

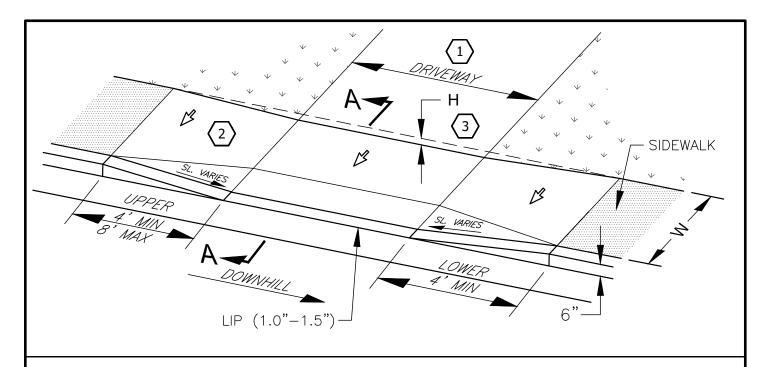
TABLE OF CONTENTS

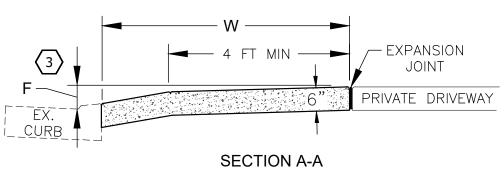
001-099	Miscellaneous
100-199	Sewers and Drains
200-299	Stormwater
300-399	Streets
400-499	Water
500-599	Structures
600-699	Earthwork
700-799	Street Lighting and Traffic Signals
800-899	Landscape and Irrigation
900-999	Erosion Control

Plan No.	Title	Date
Streets		
301A	Standard Driveway Approach—Curbline Sidewalk	12-27-2019
301B	Fully Lowered Driveway Approach—Curbline Sidewalk	12-27-2019
302	Driveway Approach—Property Line Sidewalk	05-18-2004
303	Curbs	12-18-2015
304	Alley Detail—Portland Cement Concrete	09-15-1999
305	Standard Alley Details—Asphalt Concrete	09-15-1999
306 A	Curb Line Sidewalk	12-27-2019
306 B	Property Line Sidewalk	12-27-2019
307 A	Curb Ramps (Perpendicular)	12-27-2019
307 B	Curb Ramps (Parallel)	12-27-2019
307 C	Curb Ramps (Combination)	12-27-2019
307 D	Blended Transitions	12-27-2019
307 E	Detectable Warning Surface	05-01-2015
308	Mid-Block Walk Entrance Traffic Control	09-15-1999
309	Pavement Patching	09-15-1999
310	Permanent Barricade	09-15-1999
311	Widened Sidewalk at Mailbox Locations	09-15-1999
313	Future Street Extension Sign	09-15-1999
314	Mid-Block Bike/Pedestrian Walkway	09-15-1999
315	Commercial Curb Returns for Driveway and Alley Approach	09-15-1999
316	Hammerhead Turnaround	09-15-1999
317	Concrete Stairway	09-15-1999
318	Typical Street Sections	09-15-1999
319	Traffic Island Installation—18" to 24" Wide	03-28-2001
320	Traffic Island Installation—24" to 60" Wide	03-28-2001
321	Traffic Island Installation—Greater than 60" Wide	03-28-2001

CITY OF SALEM DEPARTMENT OF PUBLIC WORKS STANDARD DRAWINGS

Plan No.	Title	Date
322A	Pavement Marking Details	12-27-2019
322B	Pavement Marking Details	07-13-2016
322C	Pavement Marking Details	07-13-2016
323	Pipe Sign Support Detail	09-12-2011
325	Speed Hump and Striping	09-12-2011
326	Temporary Sign Support	08-16-2017





- 1 DRIVEWAY WIDTH AS SPECIFIED ON PERMIT OR AS SHOWN ON PLANS.
- 7.5% TYPICAL (8.3% MAXIMUM) SLOPE, BUT SHALL NOT REQUIRE THE LENGTH TO EXCEED 8—FEET. APPROXIMATE MINIMUM LENGTHS REQUIRED FOR VARIOUS STREET SLOPES ARE SHOWN IN TABLE BELOW:

STREET SLOPE %	UPPER TRANSITION MINIMUM LENGTH (W=5')
1.0	4.0'
2.0	4.5'
3.0	5.25'
4.0	6.5'
>5.0	8.0'

DIMENSIONS "F" AND "H" VARY WITH SIDEWALK WIDTH 'W'.

W (FT)	H (INCHES)	F (INCHES)
5	3.25	4.0
6	2.75	4.75
7	2.25	5.5
8		7.0

GENERAL NOTES

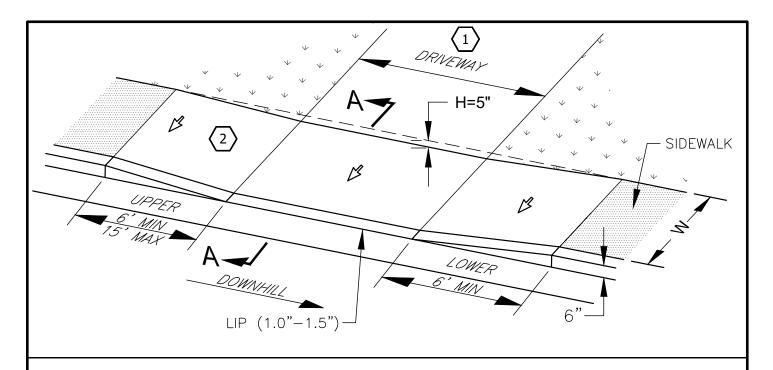
- ALL SLOPES ARE RELATIVE TO TRUE HORIZONTAL.
- DRIVEWAY APPROACH AND TRANSITIONS
 SHALL BE MINIMUM 6-INCH THICK
 COMMERCIAL GRADE CONCRETE.
- REFER TO SIDEWALK STANDARDS FOR BROOM FINISH; JOINTS; TOOLED EDGES.
- ALL MEASUREMENTS ARE BASED ON 6 INCH CURB REVEAL.
- ← SLOPE = 1.5% TYPICAL (2.0% MAXIMUM)

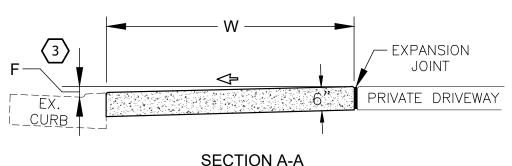
REVISED KEYNOTE 2
CHANGED 2% MAX TO HOLLOW ARROW WITH GENERAL NOTE
INCREASED GUTTER LIP

CITY OF SALEM DEPARTMENT OF PUBLIC WORKS

STANDARD PLAN
STANDARD DRIVEWAY APPROACH
CURBLINE SIDEWALK

APPROVED	/gm.). M/	gitter	12/27/19	DRAWN BY	JAK	10/2019	NO.301A
APPROVED	CITY FNI	GINEER	DATE	CHECKED BY	DEW	10/2019	NO.30 IA





1

DRIVEWAY WIDTH AS SPECIFIED ON PERMIT OR AS SHOWN ON PLANS.

7.5% TYPICAL (8.3% MAXIMUM) SLOPE, BUT SHALL NOT REQUIRE THE LENGTH TO EXCEED 15—FEET. APPROXIMATE MINIMUM LENGTHS REQUIRED FOR VARIOUS STREET SLOPES ARE SHOWN IN TABLE BELOW:

STREET SLOPE %	UPPER TRANSITION MINIMUM LENGTH (FEET)					
1.0	6.0					
2.0	7.0					
3.0	8.5					
4.0	10.25					
5.0	13.5					
>5.5	15.0					

3 DIMENSION "F" VARIES WITH SIDEWALK WIDTH "W".

W (FEET)	F (INCHES)
5	2.25
6	2.5
7	2.75
8	3.0

GENERAL NOTES

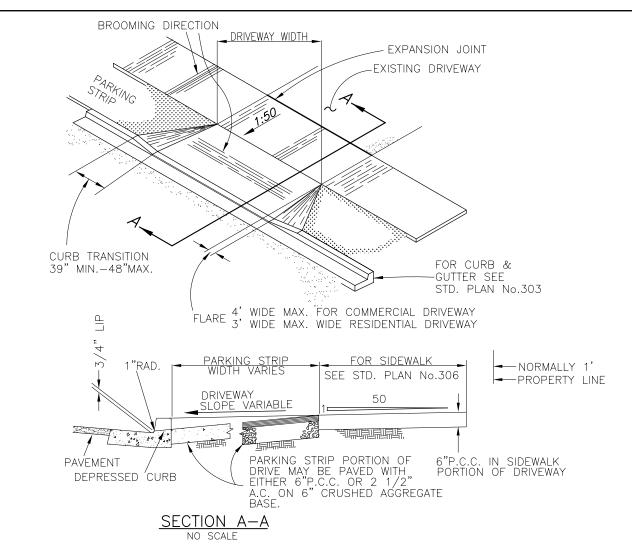
- CONSTRUCT THIS APPROACH TYPE FOR COMMERCIAL DRIVEWAYS ON HIGHER SPEED STREETS.
- ALL SLOPES ARE RELATIVE TO TRUE HORIZONTAL.
- DRIVEWAY APPROACH AND TRANSITIONS
 SHALL BE MINIMUM 6-INCH THICK
 COMMERCIAL GRADE CONCRETE.
- REFER TO SIDEWALK STANDARDS FOR BROOM FINISH; JOINTS; TOOLED EDGES.
- ALL MEASUREMENTS ARE BASED ON 6 INCH CURB REVEAL.
- SLOPE = 1.5% TYPICAL (2.0% MAXIMUM)

REVISED KEYNOTE 2
CHANGED 2% MAX TO HOLLOW ARROW WITH GENERAL NOTE
INCREASED GUTTER LIP

CITY OF SALEM DEPARTMENT OF PUBLIC WORKS

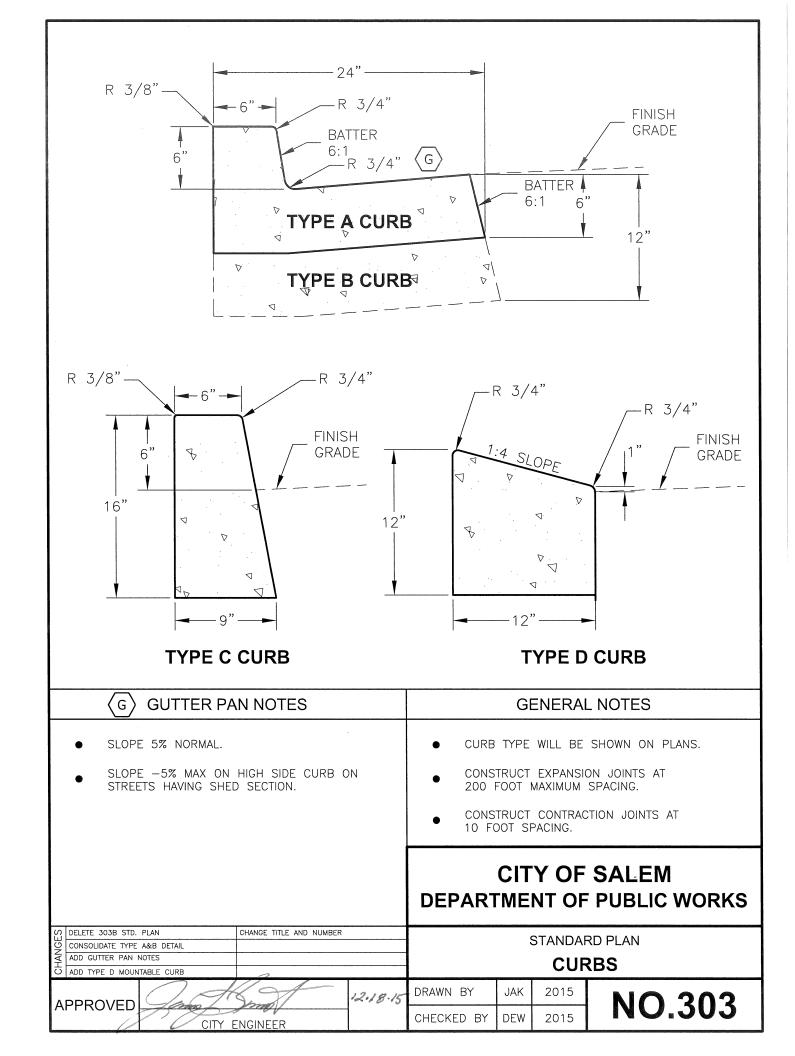
STANDARD PLAN
FULLY LOWERED DRIVEWAY APPROACH
CURBLINE SIDEWALK

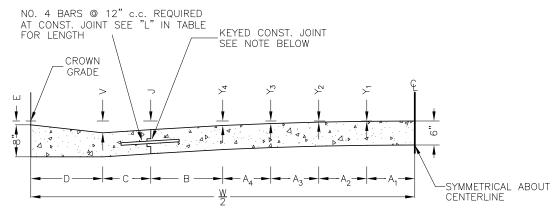
APPROVED		Jul). M/	gittin	12/27/19	DRAWN BY	JAK	10/2019	NO 201	
APPROVED		CITY FNO	SINIFFR	DATE	CHECKED BY	DEW	10/2019	NO.301)



- 1. DRIVEWAY WIDTH WILL NORMALLY BE SHOWN ON PROJECT PLANS. WHEN NOT SHOWN, WIDTH SHALL BE AS DIRECTED BY THE ENGINEER. IN EITHER CASE, THE DRIVEWAY WIDTH SHALL NOT EXCEED THE LIMITS SET FORTH IN SALEM REVISED CODE CHAPTER 80.
- 2. SIDEWALKS, INCLUDING THAT PORTION CROSSING THE DRIVEWAY SHALL HAVE TRANSVERSE CONTRACTION JOINTS AT 5' INTERVALS AND TOOL ROUNDED BEFORE BROOMING. ALL EDGES SHALL BE TOOL ROUNDED AND SHINED (3") AFTER BROOMING.
- 3. WHEN EXISTING DRIVEWAY CANNOT BE MATCHED TO NEW DRIVEWAY WITHIN SLOPE LIMITATIONS SHOWN, ADJUST EXISTING DRIVEWAY—NOT CURB AND SIDEWALK GRADE.
- 4. EXPANSION JOINTS 1/2"X3 1/2" PREMOLDED JOINT MATERIAL AT LOCATIONS SHOWN.
- 5. THE DIMENSIONS OF DRIVEWAY APPROACH SHALL NOT BE ADJUSTED WITHOUT SPECIFIC PRIOR (BEFORE FORMING) APPROVAL OF THE INSPECTOR.
- 6. CONCRETE STRENGTH SHALL BE PER SCS 308.
- 7. THE 1:50 CROSS-SLOPE OF SIDEWALK IS MEASURED FROM HORIZONTAL.
- 8. SEE SIDEWALK DETAILS FOR RESTRICTIONS AND SPECIFICATIONS NOT SHOWN.

Apr	proved Karl O. Sburger City Engineer	5-18 Dat		CITY OF SALEM DEPARTMENT OF PUBLIC WORK	S
	DELETED ONE EXPANSION JOINT CURBLINE DETAIL CONVERTED		5/04	standard plan DRIVEWAY APPROACH PROPERTY LINE SIDEWALK	
	TO SEPARATE DRAWING Description REVISION		7/99 Date	LAST REV. BY: DTN NO.302	





HALF- SECTION OF P.C.C. ALLEY

			DIMENSIONS																	
		A ₁	A_2	A ₃	A ₄	A ₅	A_6	В	С	D	Y_1	Y_2	Y ₃	Y_4	Y ₅	Y_6	J	٧	Ε	L
	9'	1-0"	1-0"					1'-0"	8"	10"	0.012	0.047					0.107	0.160'	0	
	12'	1-0"	1-0"	1-0"				1'-6"	8"	10"	0.006	0.024'	0.053				0.122	0.160	0.080'	12"
M	14'	1-0"	1-0"	1-0"	1-0"			1'-6"	8"	10"	0.005	0.021,	0.048	0.085			0.160'	0.200,	0.120'	12"
Y WIDTH		1-0"	1-0"	1-0"	1-0"			1'-6"	1-0"	1'-6"	0.006	0.024'	0.053	0.094'			0.180	0.250	0.080,	16"
ALLEY	20'	1-0"	1-0"	1-0"	1-0"	1-0"	1-0"	1'-6"	1-0"	1'-6"	0.004	0.018,	0.040,	0.071	0.111,	0.160'	0.250'	0.320,	0.150	16"

- 1. ALL CONC. SHALL BE CLASS 4000 P.S.I. MAX SLUMP 3" UNLESS OTHERWISE SPECIFIED BY THE ENGINEER
- 2. FOR FINISH, CURING AND OTHER REQUIREMENTS SEE SPECIFICATIONS.

 ALLEY MAY BE POURED MONOLITHICLLY OR GUTTER SECTIONS MAY BE PLACED SEPARATELY AS SHOWN, IF THE SECTIONS ARE PLACED SEPARATELY THE CONSTRUCTION JOINT SHALL BE KEYED AND DOWELED Approved Karl Stouter 9-15-99
City Engineer Date

CITY OF SALEM DEPARTMENT OF PUBLIC WORKS

STANDARD PLAN

ALLEY DETAIL

PORTLAND CEMENT CONCRETE

No. Description Date By Appr DRAWN BY GS

REVISION

CITY OF SALEM DEPARTMENT OF PUBLIC WORKS

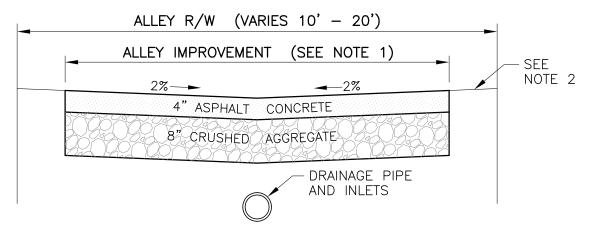
STANDARD PLAN

ALLEY DETAIL

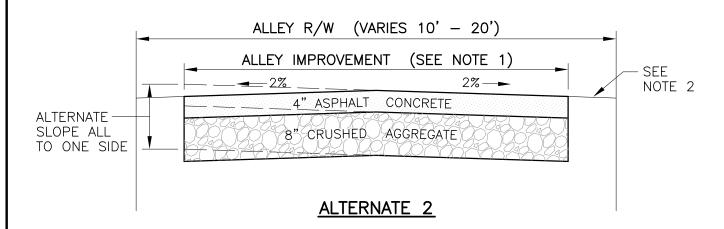
PORTLAND CEMENT CONCRETE

DRAWN BY GS

CHECKED BY D.W.

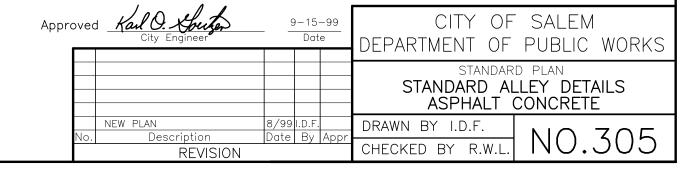


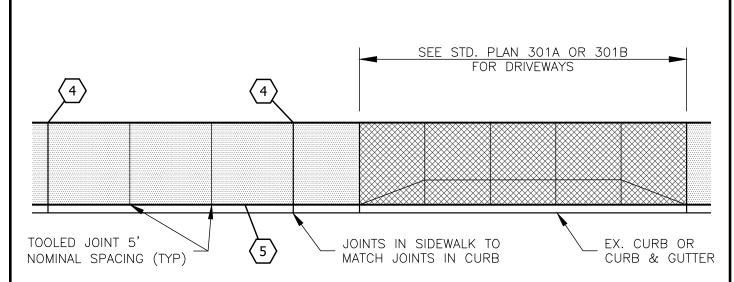
ALTERNATE 1



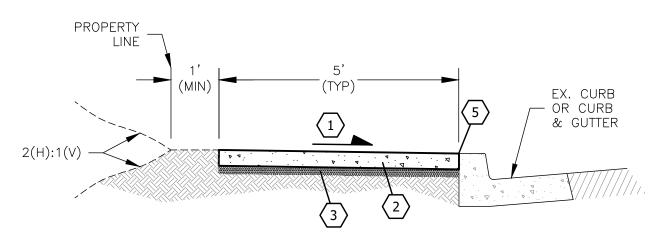
<u>NOTES</u>

- 1. ALLEY IMPROVEMENT WIDTH SHALL BE: FOR 10' R/W = 9' IMPROVEMENT FOR 12'-20' R/W = R/W WIDTH LESS 2'
- 2. EDGE BACKFILL MATERIAL TO MATCH ADJOINING A.C., P.C.C., ROCK, DIRT, ETC.
- 3. ROCK PORTION OF PAVEMENT STRUCTURAL SECTION MAY BE REDUCED IF DESIGNED PER CITY OF SALEM A.C. PAVEMENT DESIGN PROCEDURE.
- 4. A.C. ALLEY WITH NO DRAINAGE (ALTERNATE 2) ONLY ALLOWED WITH SPECIFIC APPROVAL OF DIRECTOR OF PUBLIC WORKS; AND WITH WRITTEN CONSENT OF ABUTTING PROPERTY OWNERS (HEIRS, SUCCESSORS AND ASSIGNS) TO ACCEPT WATER FROM CITY OF SALEM ALLEY. CONSENT TO BE RECORDED WITH APPROPRIATE COUNTY.

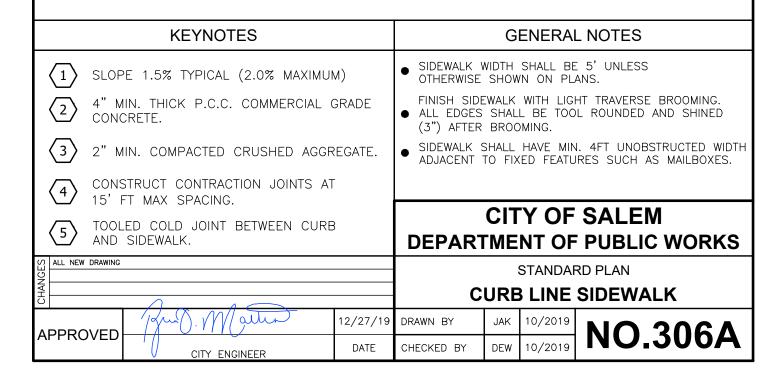


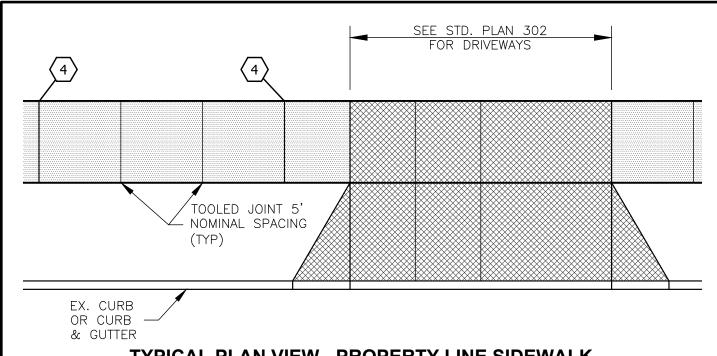


TYPICAL PLAN VIEW - CURB LINE SIDEWALK

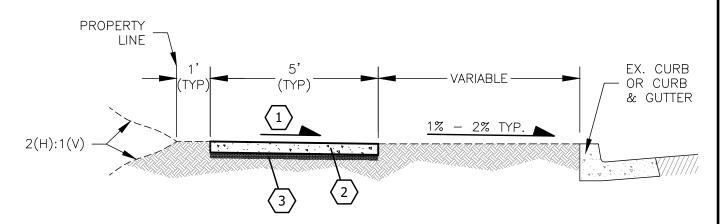


TYPICAL SECTION VIEW - CURB LINE SIDEWALK



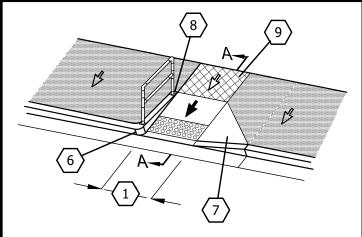


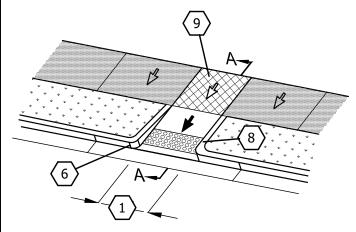
TYPICAL PLAN VIEW - PROPERTY LINE SIDEWALK

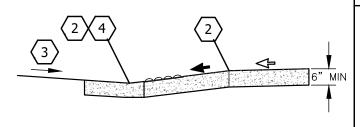


TYPICAL SECTION VIEW - PROPERTY LINE SIDEWALK

KEYNOTES GENERAL NOTES SIDEWALK WIDTH SHALL BE 5' UNLESS SLOPE 1.5% TYPICAL (2.0% MAXIMUM) OTHERWISE SHOWN ON PLANS. FINISH SIDEWALK WITH LIGHT TRAVERSE BROOMING. 4" MIN. THICK P.C.C. COMMERCIAL GRADE ALL EDGES SHALL BE TOOL ROUNDED AND SHINED CONCRETE. (3") AFTER BROOMING. SET SIDEWALK 1FT FROM PROPERTY LINE UNLESS (3) 2" MIN. COMPACTED CRUSHED AGGREGATE. OTHERWISE SHOWN ON PLANS. CONSTRUCT CONTRACTION JOINTS AT 4 15' FT MAX SPACING. **CITY OF SALEM DEPARTMENT OF PUBLIC WORKS** ALL NEW DRAWING STANDARD PLAN PROPERTY LINE SIDEWALK alle 10/2019 12/27/19 DRAWN BY JAK NO.306B **APPROVED** 10/2019 DATE CHECKED BY CITY ENGINEER







SECTION A-A

KEYNOTES

- STANDARD RAMP WIDTH EQUALS 5-FEET. WITH PRIOR CITY APPROVAL, WIDTH MAY BE REDUCED TO 4-FEET TO AVOID OBSTRUCTIONS.
- GRADE BREAKS AT TOP AND BOTTOM OF RAMP RUNS SHALL BE PERPENDICULAR TO DIRECTION OF RAMP RUN.
- THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE FOOT OF CURB RAMP RUNS, BLENDED TRANSITIONS, AND TURNING SPACES SHALL BE 5% MAX.
- SURFACE SLOPES THAT MEET AT GRADE BREAKS SHALL BE FLUSH.
- RETURNED CURBS SHALL HAVE 6-INCH MINIMUM 6 RADIUS.
- CONSTRUCT FLARED SIDES WITH SLOPE OF 10% MAX, MEASURED PARALLEL TO THE CURB LINE, WHEREVER THE SIDEWALK CROSSES THE CURB RAMP.
- FLARED SIDES ARE PREFERRED, BUT RETURNED CURBS ARE PERMITTED PROVIDED THAT THEY ARE ALIGNED WITH PEDESTRIAN STREET CROSSING AND ARE PROTECTED FROM CROSS TRAVEL BY LANDSCAPING, STREET FURNITURE, RAILINGS, ETC.
- A TURNING SPACE SHALL BE PROVIDED AT TOP 9 OF PERPENDICULAR CURB RAMPS AND BOTTOM OF PARALLEL RAMPS.

LEGEND

- ALL SLOPE MEASUREMENTS ARE RELATIVE TO % TRUE HORIZONTAL.
- \triangleleft SLOPE = 1.5% TYPICAL (2.0% MAXIMUM)
- THE RUNNING SLOPE OF THE CURB RAMP SHALL BE 7.5% TYPICAL (8.3% MAXIMUM). BUT SHALL NOT REQUIRE THE CURB RAMP LENGTH TO EXCEED 15-FEET. (SEE 307.D FOR SLOPES LESS THAN 5%.)
- SEE 307.E FOR DETECTABLE WARNING SURFACE REQUIREMENTS.
 - THE TURNING SPACE SHALL BE 48"x48" MINIMUM. IF CONSTRAINED, IT SHALL BE 48"x60" MINIMUM WITH LONGER DIMENSION IN DIRECTION OF PEDESTRIAN STREET CROSSING.

GENERAL NOTES

- GRADE BREAKS ARE NOT PERMITTED ON SURFACE OF RAMP RUNS AND TURNING SPACES.
- ALL RAMPS AND TURNING SPACES SHALL BE MINIMUM 6-INCH THICK COMMERCIAL GRADE CONCRETE.

REVISED TURNING SPACE DIMENSIONS

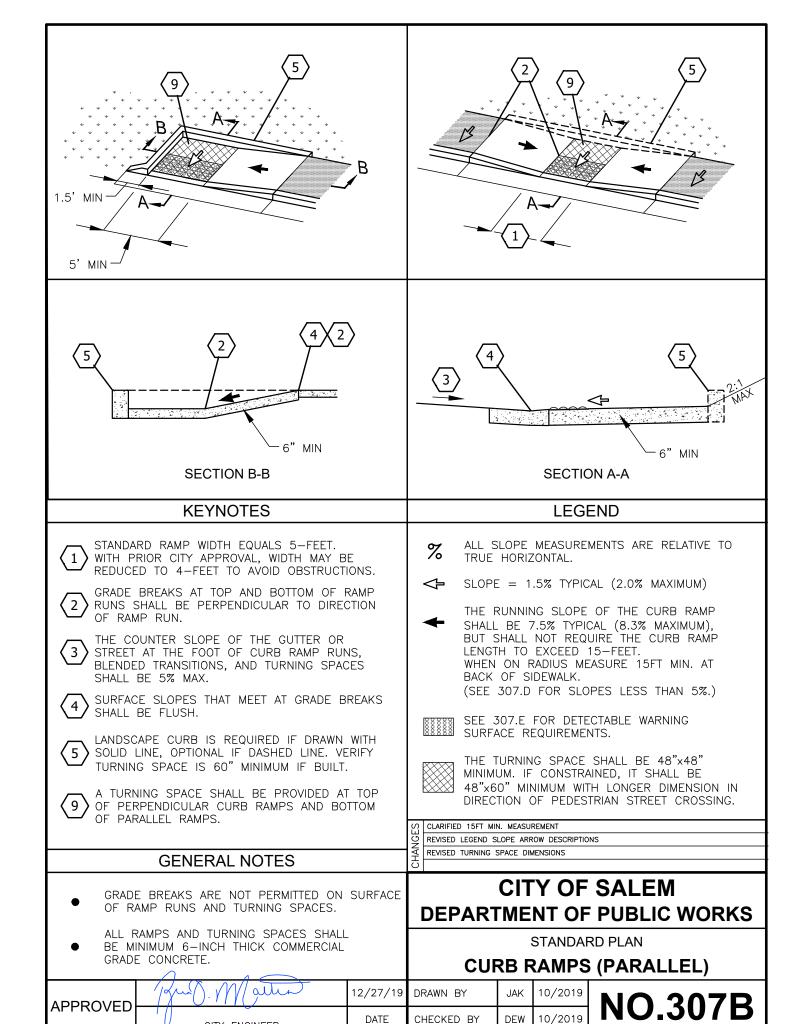
REVISED KEYNOTE 7
REVISED TURNING SP.
REVISED LEGEND SLO REVISED LEGEND SLOPE ARROW DESCRIPTIONS

CITY OF SALEM DEPARTMENT OF PUBLIC WORKS

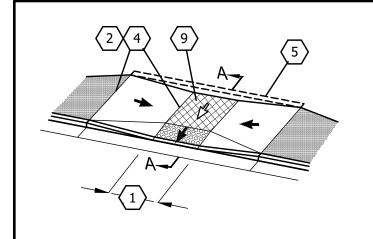
STANDARD PLAN

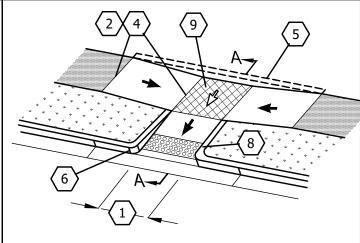
CURB RAMPS (PERPENDICULAR)

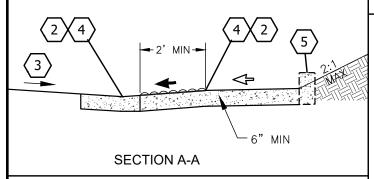
APPROVED	12m. M	atta	12/27/19	DRAWN BY	JAK	10/2019	NO.307A
APPROVED	' []	ICINEER	DATE	CHECKED BY	DEW	10/2019	NO.3U/A



CITY ENGINEER







- STANDARD RAMP WIDTH EQUALS 5-FEET. WITH PRIOR CITY APPROVAL, WIDTH MAY BE REDUCED TO 4-FEET TO AVOID OBSTRUCTIONS.
- GRADE BREAKS AT TOP AND BOTTOM OF RAMP 2 RUNS SHALL BE PERPENDICULAR TO DIRECTION OF RAMP RUN.
- THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE FOOT OF CURB RAMP RUNS, BLENDED TRANSITIONS, AND TURNING SPACES SHALL BE 5% MAX.
- SURFACE SLOPES THAT MEET AT GRADE BREAKS SHALL BE FLUSH.
- LANDSCAPE CURB IS REQUIRED IF DRAWN WITH 5 SOLID LINE, OPTIONAL IF DASHED LINE. VERIFY TURNING SPACE IS 60" MINIMUM IF BUILT.
- RETURNED CURBS SHALL HAVE 6-INCH MINIMUM 6 RADIUS.
- FLARED SIDES ARE PREFERRED, BUT RETURNED CURBS ARE PERMITTED PROVIDED THAT THEY ARE ALIGNED WITH PEDESTRIAN STREET CROSSING AND ARE PROTECTED FROM CROSS TRAVEL BY LANDSCAPING, STREET FURNITURE, RAILINGS, ETC.
- A TURNING SPACE SHALL BE PROVIDED AT TOP OF PERPENDICULAR CURB RAMPS AND BOTTOM OF PARALLEL RAMPS.

LEGEND

- ALL SLOPE MEASUREMENTS ARE RELATIVE TO % TRUE HORIZONTAL.
- SLOPE = 1.5% TYPICAL (2.0% MAXIMUM)
- THE RUNNING SLOPE OF THE CURB RAMP SHALL BE 7.5% TYPICAL (8.3% MAXIMUM), BUT SHALL NOT REQUIRE THE CURB RAMP LENGTH TO EXCEED 15-FEET. WHEN ON RADIUS MEASURE 15FT MIN. AT BACK OF SIDEWALK. (SEE 307.D FOR SLOPES LESS THAN 5%.)
- SEE 307.E FOR DETECTABLE WARNING SURFACE REQUIREMENTS.
 - THE TURNING SPACE SHALL BE 48"x48" MINIMUM. IF CONSTRAINED, IT SHALL BE 48"x60" MINIMUM WITH LONGER DIMENSION IN DIRECTION OF PEDESTRIAN STREET CROSSING.

GENERAL NOTES

- GRADE BREAKS ARE NOT PERMITTED ON SURFACE OF RAMP RUNS AND TURNING SPACES.
- ALL RAMPS AND TURNING SPACES SHALL BE MINIMUM 6-INCH THICK COMMERCIAL GRADE CONCRETE.

CLARIFIED 15FT MIN. MEASUREMENT
REVISED LEGEND SLOPE ARROW DES
REVISED TURNING SPACE DIMENSIONS

REVISED LEGEND SLOPE ARROW DESCRIPTIONS

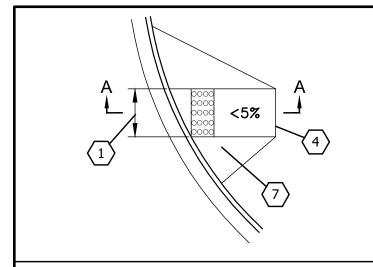
REVISED TURNING SPACE DIMENSIONS

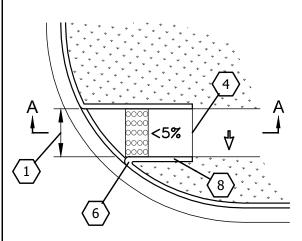
CITY OF SALEM DEPARTMENT OF PUBLIC WORKS

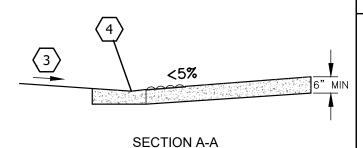
STANDARD PLAN

CURB RAMPS (COMBINATION)

allia 12/27/19 DRAWN BY JAK 10/2019 NO.307C **APPROVED** DFW 10/2019 DATE CHECKED BY CITY ENGINEER







- STANDARD RAMP WIDTH EQUALS 5-FEET.
 WITH PRIOR CITY APPROVAL, WIDTH MAY BE REDUCED TO 4-FEET TO AVOID OBSTRUCTIONS.
- THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE FOOT OF CURB RAMP RUNS, BLENDED TRANSITIONS, AND TURNING SPACES SHALL BE 5% MAX.
- 4 SURFACE SLOPES THAT MEET AT GRADE BREAKS SHALL BE FLUSH.
- 6 RETURNED CURBS SHALL HAVE 6-INCH MINIMUM RADIUS.
- CONSTRUCT FLARED SIDES WITH SLOPE OF 10% MAX, MEASURED PARALLEL TO CURB, WHEREVER THE SIDEWALK CROSSES THE CURB RAMP.
- FLARED SIDES ARE PREFERRED, BUT RETURNED CURBS ARE PERMITTED PROVIDED THAT THEY ARE ALIGNED WITH PEDESTRIAN STREET CROSSING AND ARE PROTECTED FROM CROSS TRAVEL BY LANDSCAPING, STREET FURNITURE, RAILINGS, ETC.

LEGEND

- % ALL SLOPE MEASUREMENTS ARE RELATIVE TO TRUE HORIZONTAL.
- SLOPE = 1.5% TYPICAL (2.0% MAXIMUM)
- <5% THE RUNNING SLOPE OF A BLENDED TRANSITION SHALL BE LESS THAN 5%.
- SEE 307.E FOR DETECTABLE WARNING

GENERAL NOTES

- PERPENDICULAR GRADE BREAKS AND TURNING
 SPACES ARE NOT REQUIRED WHEN RUNNING
 SLOPES ARE LESS THAN 5%.
- THIS DRAWING DEPICTS RUNNING SLOPE

 ALIGNMENTS CROSSING GUTTER GRADE BREAK ON
 A SKEWED ANGLE, A CONFIGURATION NOT
 PERMITTED WHEN RUNNING SLOPES EXCEED 5%.
- ALL RAMPS AND TURNING SPACES SHALL
 BE MINIMUM 6-INCH THICK COMMERCIAL GRADE CONCRETE.

CITY OF SALEM DEPARTMENT OF PUBLIC WORKS

REVISED LEGEND SLOPE ARROW DESCRIPTIONS

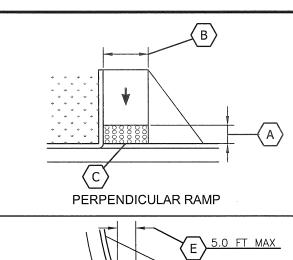
STANDARD PLAN

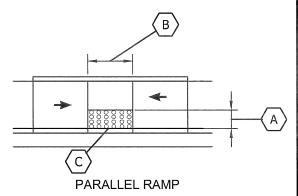
BLENDED TRANSITIONS

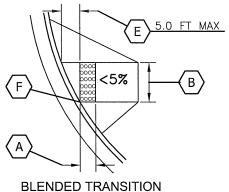
12/27/19 DRAWN BY JAK 10/2019

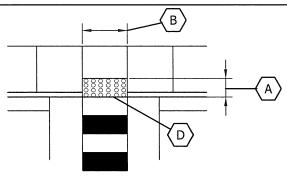
CITY ENGINEER DATE CHECKED BY DEW 10/2019

NO.307D

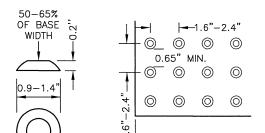








- A DWS SHALL EXTEND 2.0 FT MIN IN THE DIRECTION OF TRAVEL.
- B AT CURB RAMPS AND BLENDED TRANSITIONS, DWS SHALL EXTEND THE FULL WIDTH OF THE RAMP RUN (EXCLUDING ANY FLARED SIDES), BLENDED TRANSITION, OR TURNING SPACE.
- C ON PERPENDICULAR AND PARALLEL CURB RAMPS, PLACE DWS 2" MAX FROM THE BACK OF CURB.
- AT RAISED PEDESTRIAN STREET CROSSINGS,
 DEPRESSED CORNERS, OR AT OTHER LEVEL
 PEDESTRIAN STREET CROSSINGS, PLACE DWS
 2" MAX FROM THE FLUSH TRANSITION BETWEEN
 THE STREET AND THE SIDEWALK.
- F DIMENSION SHOWN MUST EXCEED 5.0 FT IN ORDER TO KEEP ROWS OF DOMES ALIGNED WITH PATH OF TRAVEL, THEN PLACE DWS PARALLEL TO, AND 2" MAX FROM, THE BACK OF CURB.
- ${f F}$ at blended transitions, place DWS 2" max from the back of curb.



RAISED PEDESTRIAN CROSSING

GENERAL NOTES

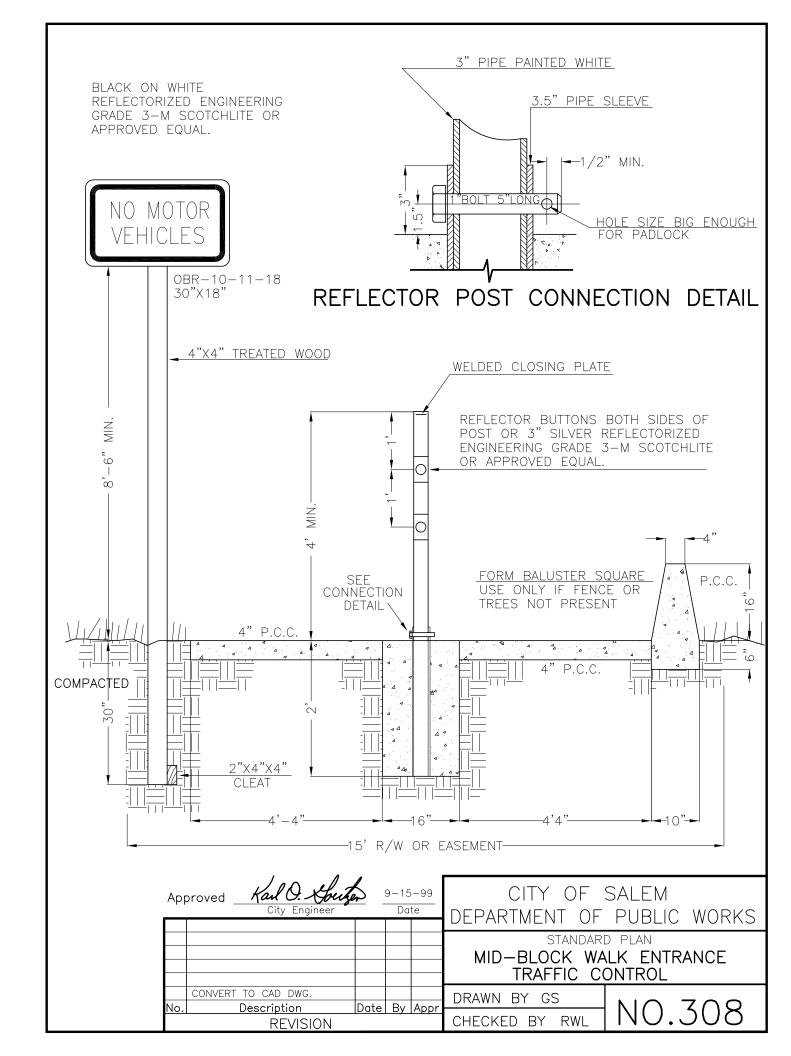
- DETECTABLE WARNING SURFACES (DWS), SHALL CONSIST OF TRUNCATED DOMES ALIGNED IN A SQUARE OR RADIAL GRID PATTERN.
- ALIGN ROWS OF DOMES WITH INTENDED PATH OF TRAVEL.
- COLOR: BRICK RED (FED STD #20109)
- APPROVED PRODUCTS:
- 1) MASCO CASTINTACT®
 - 2) ADA SOLUTIONS, INC.
 - 3) OR EQUAL, AS PER CITY ENGINEER

CITY OF SALEM DEPARTMENT OF PUBLIC WORKS

STANDARD PLAN

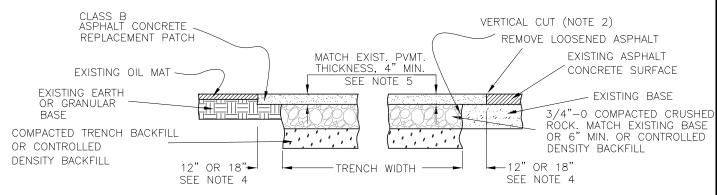
DETECTABLE WARNING SURFACE

		//						
APPROVED	Jam J.	Gmail +	5/2015	DRAWN BY	JAK	7/2012		30
APPROVED	CITY	ENGINEER	DATE	CHECKED BY	DEW	7/2012	NO.	JU



HALF SECTION HALF SECTION P.C.C. PAVEMENT RIGID PAVEMENT WITH ASPHALT CONCRETE SURFACE MATCH EXIST. PVMT. THICKNESS, 6" MIN. CLASS 4000 P.S.I. P.C.C. SAW VERTICALLY (NOTE 2) MATCH EXISTING UNLESS OTHERWISE CLASS B OR CLASS C-ASPHALT CONCRETE SPECIFIED BY THE ENGINEER EXISTING P.C.C. PAVEMENT SEE NOTE 5 (NOTE 2) SAW VERTICALLY REMOVE LOOSENED ASPHALT **EXISTING** ASPHALT PAVEMENT 3/4"-0 COMPACTED EXISTING P.C.C.-CRUSHED ROCK 6" MIN. THICKNESS OR CONTROLLED COMPACTED TRENCH BACKFILL DENSITY BACKFILL OR CONTROLLED DENSITY BACKFILL 12" OR 18" 12" OR 18" - TRENCH WIDTH -SEE NOTE 4 SEE NOTE 4

TYPICAL PATCH FOR RIGID PAVEMENT



TYPICAL PATCH FOR FLEXIBLE PAVEMENT

NOTES

- FINAL CUTS IN A.C. PAVEMENT SHALL BE MADE WITH A CONCRETE SAW, MORE THAN ONE CUT MAY BE REQUIRED IN AC PAVEMENTS.
- 2. CUTS IN P.C.C. PAVEMENT SHALL BE MADE WITH A CONCRETE SAW.
- 3. 1"-0 CRUSHED AGGREGATE MAY BE SUBSTITUTED FOR 3/4"-0.
- 4. PAVEMENT REPLACEMENT WIDTH SHALL BE: TRENCH WIDTH PLUS 12 INCHES ON EACH SIDE FOR CONTROLLED DENSITY BACKFILL, AND TRENCH WIDTH PLUS 18 INCHES ON EACH SIDE FOR ROCK BACKFILL.
- 5. PAVEMENT REPLACEMENT THICKNESS SHALL BE AS SHOWN ABOVE FOR ROCK TRENCH BACKFILL. FOR CONTROLLED DENSITY TRENCH BACKFILL, PAVEMENT REPLACEMENT THICKNESS SHALL BE AS FOLLOWS:

STREET CLASSIFICATION ARTERIAL COLLECTOR LOCAL PORTLAND CEMENT CONCRETE 8"P.C.C. 7"P.C.C. 6"P.C.C. A.C. OVER P.C.C. 4"A.C. 4"A.C. 4"A.C. ASPHALT CONCRETE 4"A.C. 4"A.C. 4"A.C.

Approved Karl O. Shuter 9-15-99 City Engineer Date

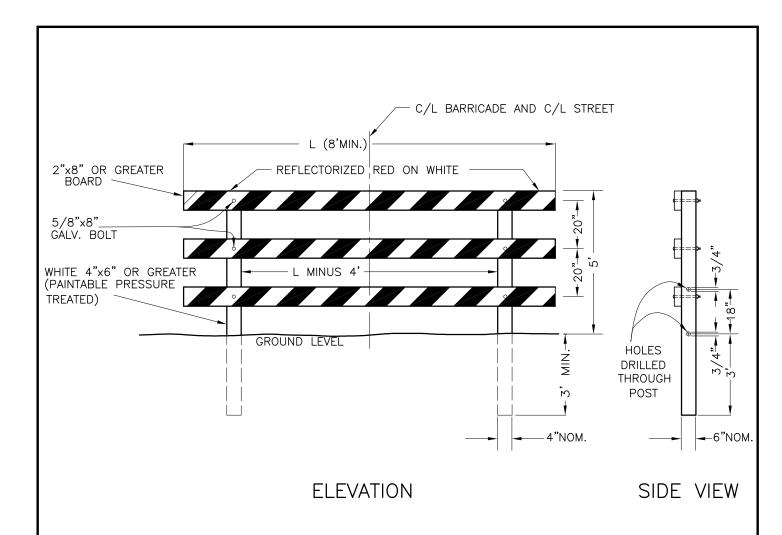
	, ,			
5	REVISED A.C. CUT NOTE.	4/99	JHC	
4	CONVERT TO CAD DWG.			
3	REVISE FOR C.D.B.	12-94		
2	NOTES	11/81	SDD	RLW
1	REVISED TITLE BLOCK	3/79	DLM	
No.	Description	Date	Ву	Appr

REVISION

CITY OF SALEM
DEPARTMENT OF PUBLIC WORKS

STANDARD PLAN
PAVEMENT PATCHING

DRAWN BY GS	NO 700
CHECKED BY RWL	NO.309



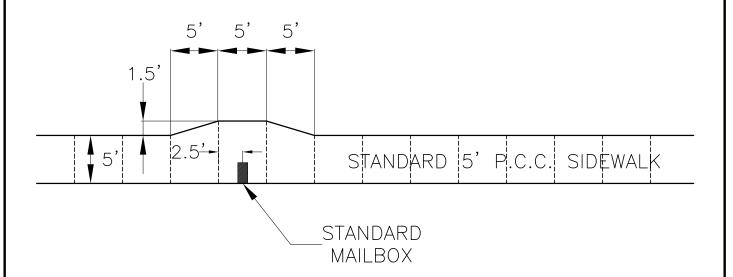
- 1. REFLECTORIZED SHEETING SHALL BE ENGINEERING GRADE REFLECTIVE SHEETING CONFORMING TO 1991 EDITION OF THE OREGON STATE HIGHWAY DIVISIONS "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION SECTION 02910"
- 2. THE LENGTH OF THE BARRICADE UNIT "L" AND NUMBER AND POSITIONING OF UNITS WILL BE SHOWN ON PROJECT PLANS.

					CITY OF SALEM DEPARTMENT OF PUBLIC WORKS					
					DEI / I (T I I I I I I I I I I I I I I I I I	1 ODLIO WOMAS				
					STANDAR	D PLAN				
	CONVERT TO CAD DWG.				PERMANENT BARRICADE					
	GENERAL	5-97	G.S.	KDG						
	BARRICADE LENGTH	9-93	G.S.	KDG						
	GENERAL	4-93	G.S.	KDG	DRAWN BY GS					
No.	Description	Date	Ву	Appr	DIVITION DI OS	1 NIO 310				
REVISION					CHECKED BY RWL	110.510				

Approved Karl

9-15-99

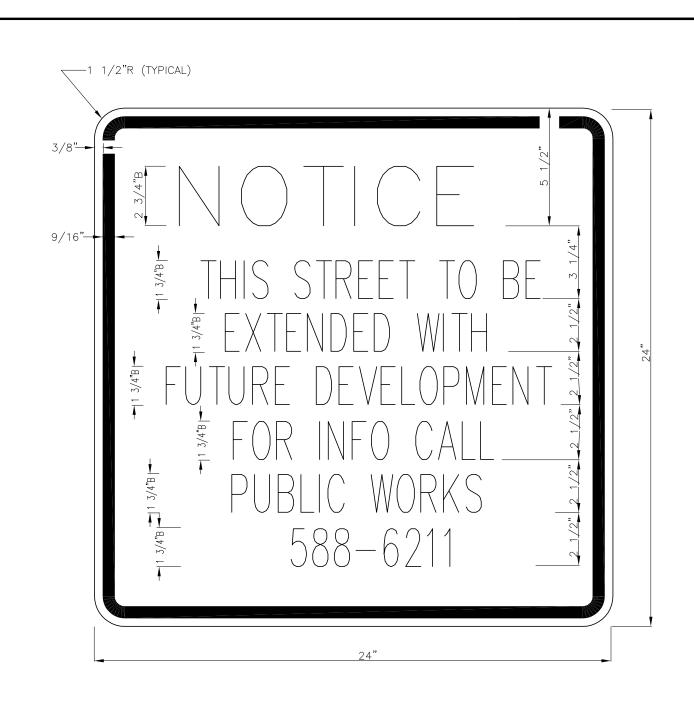
Date



NOTE

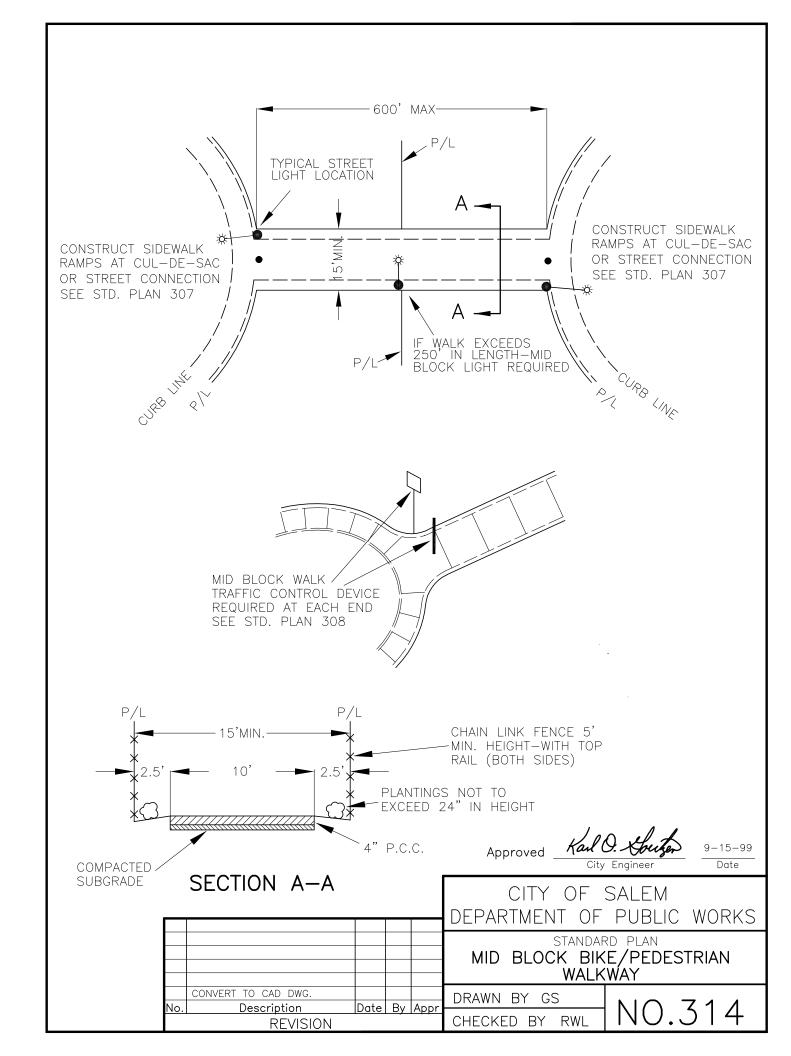
- 1. SEE STD. PLAN 306 FOR STANDARD SIDEWALK DETAILS.
- 2. CONSTRUCT WIDENED SIDEWALK AT ALL MAILBOX LOCATIONS.
- 3. MAILBOX PLACEMENT SPECIFICATIONS:
 - FRONT FACE OF MAILBOX TO BE SET BACK 6" FROM FACE OF CURB.
 - BASE OF MAILBOX TO BE BETWEEN 38" AND 40" ABOVE CURB, GUTTER OR PAVEMENT GRADE.

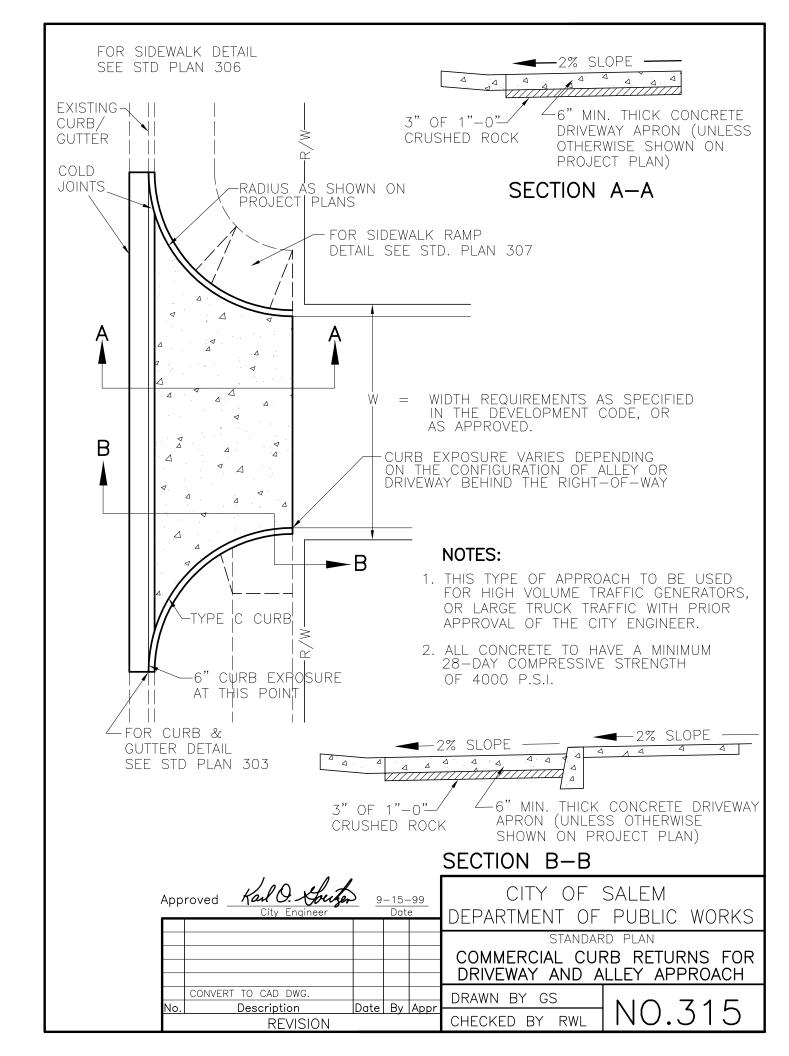
	Approved Kal O. Khuter City Engineer	9-15-99 Date	CITY OF SALEM DEPARTMENT OF PUBLIC WORKS					
			STANDARD PLAN WIDENED SIDEWALK AT MAILBOX LOCATIONS					
<u></u>		9/99 JHC KG Date By Appr	DRAWN BY JHC NO.311					

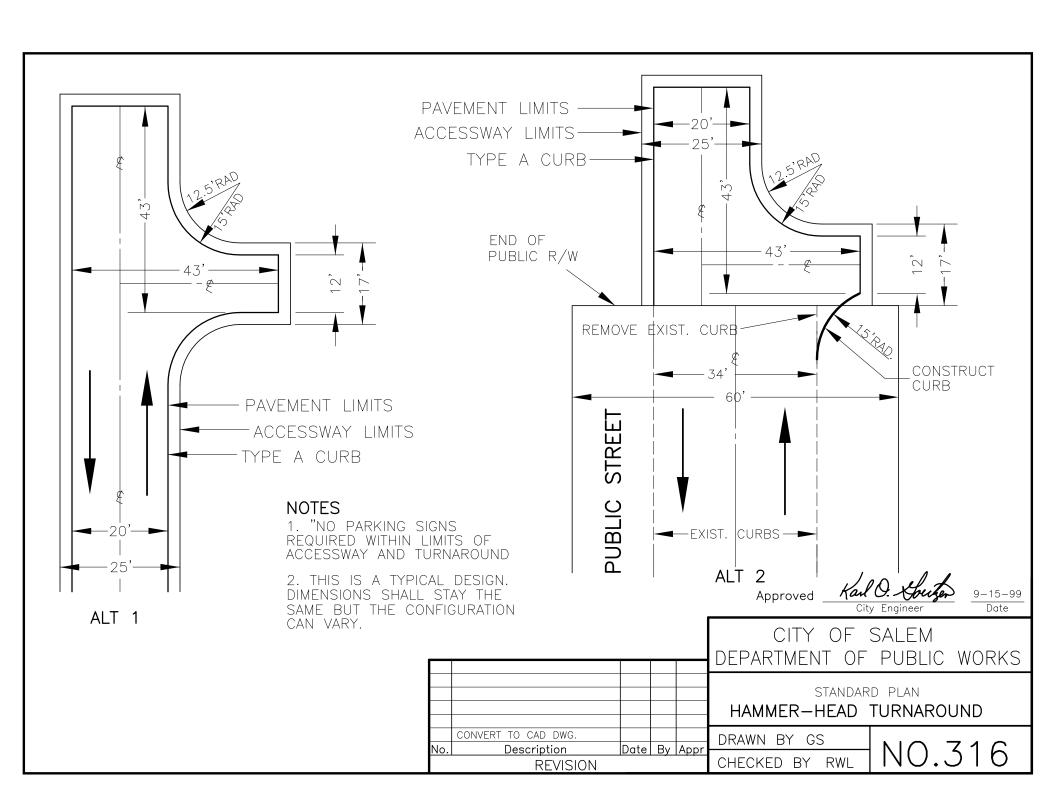


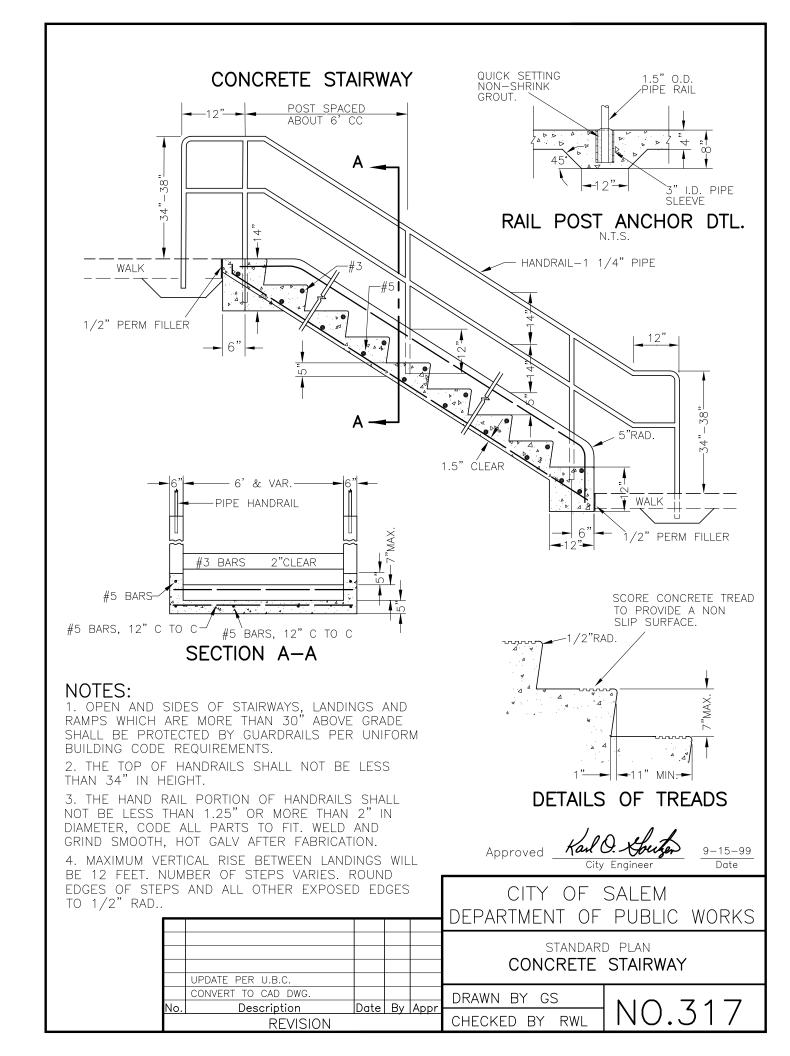
BLACK LEGEND ON REFLECTORIZED WHITE (ENGINEERING GRADE)
BACKGROUND ON ALUMINUM SHEETING (80 GAUGE). SIGN SHALL
BE MOUNTED FLUSH WITH TOP RAIL OF TYPE III BARRICADE AT THE
TERMINUS OF STUBBED STREETS.

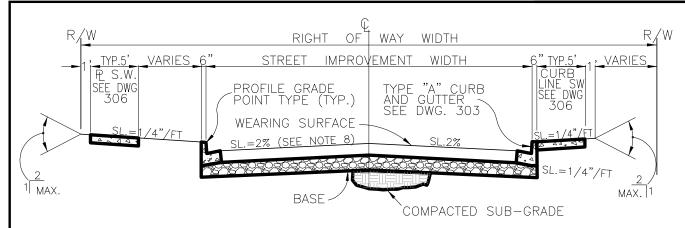
9-15-99 Approved City Engineer Date CITY OF SALEM DEPARTMENT OF PUBLIC WORKS STANDARD PLAN FUTURE ST. EXTENSION SIGN PHONE NUMBER CHANGE CONVERT TO CAD DWG. DRAWN BY GS NO.313 Date By Appr Description CHECKED BY RWL **REVISION**



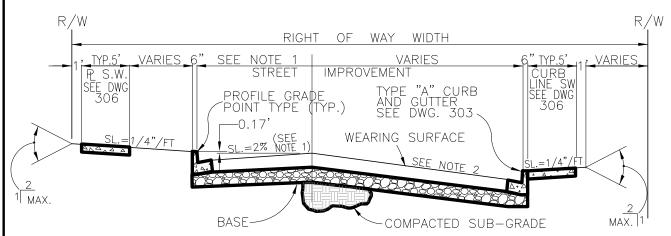








TYPICAL STREET SECTION © SECTION

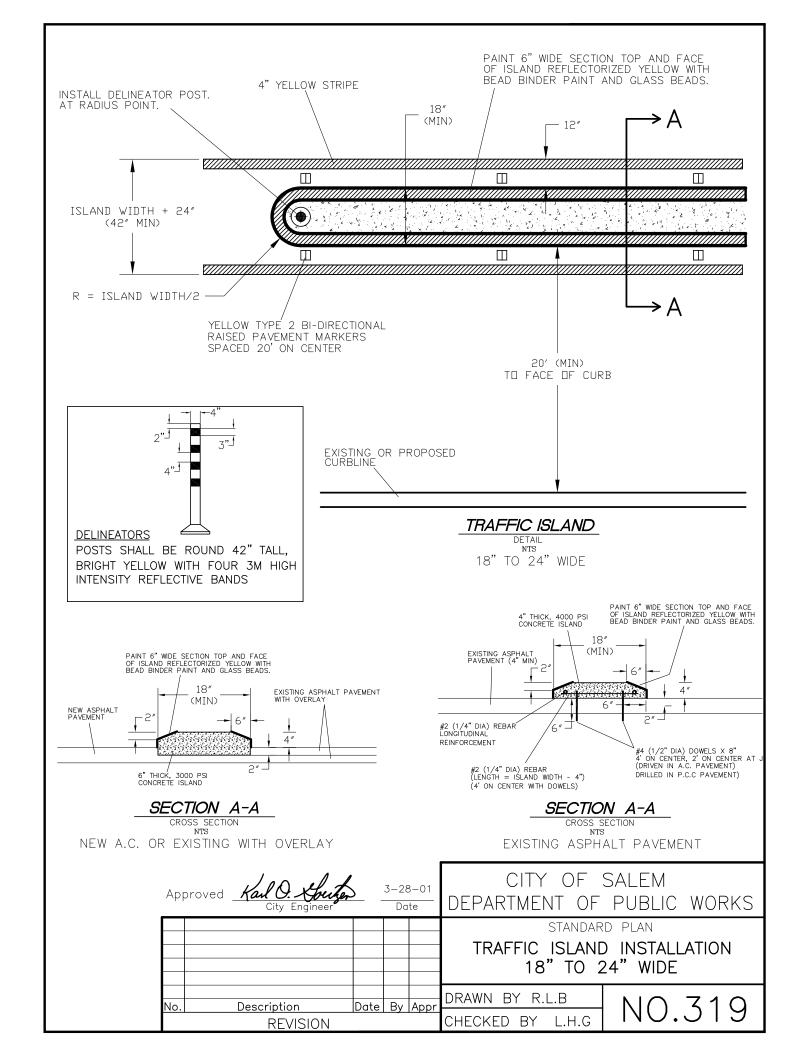


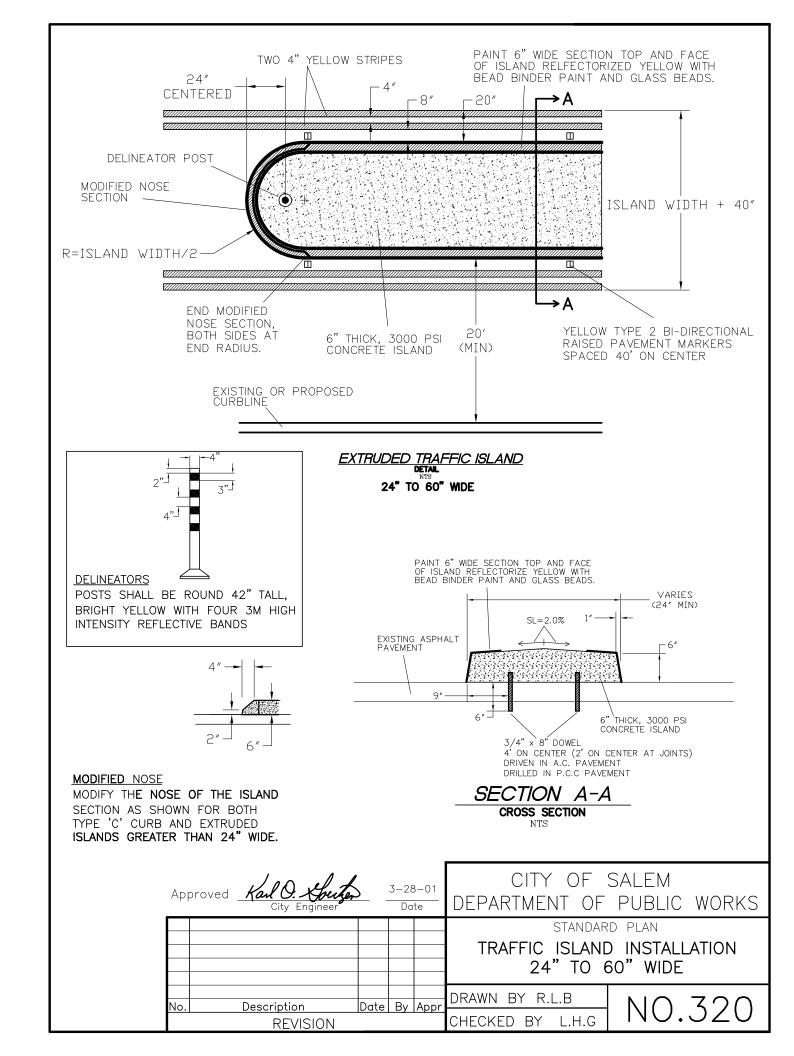
TYPICAL STREET SECTION
TILT SECTION

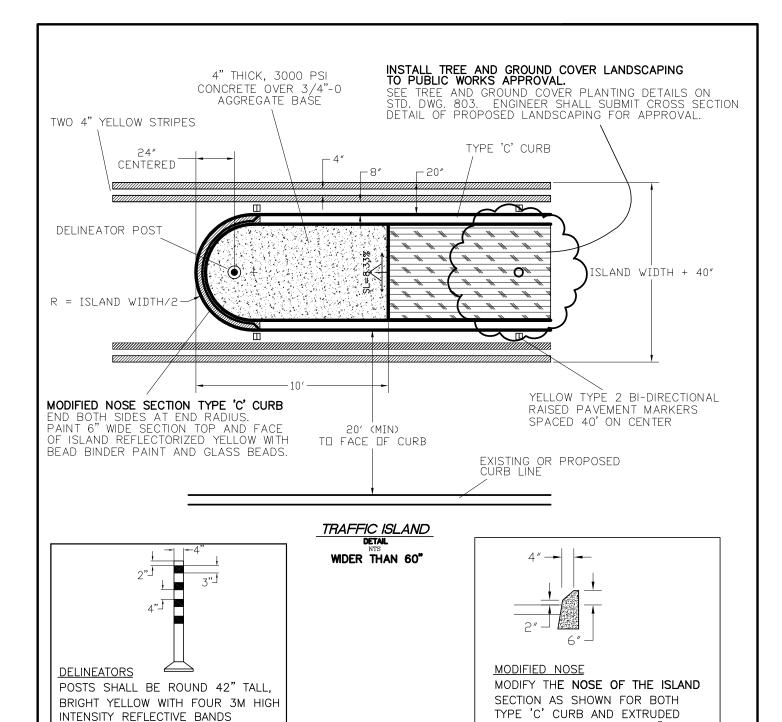
NOTES:

- 2. MAXIMUM SLOPE: RESIDENTIAL STREET = 6% MAXIMUM SLOPE; COLLECTOR & ARTERIAL = 4%.
- 3. ALTERNATE DESIGNS TO BE APPROVED BY THE DIRECTOR OF PUBLIC WORKS.
- 4. FOR STANDARD DRIVEWAY DETAILS SEE STD. PLAN NO.S 301 AND 302.
- 5. SIDEWALK LOCATION SHALL BE AS APPROVED BY THE DIRECTOR OF PUBLIC WORKS.
- 6. FOR HIGH SPEED ARTERIAL & COLLECTOR STREETS, DESIGN CROWN TO CORRESPOND WITH LANE CONFIGURATION.
- 7. FOR CLASSIFICATION (LOCAL, COLLECTOR, ARTERIAL) SEE SALEM TRANSPORTATION SYSTEM PLAN OR ADOPTED SECTOR PLANS.
- 8. FOR STREET WIDTH IN EXCESS OF 34', CROSS SLOPE SHALL BE A MINIMUM OF 3%.

	Approved Karl O. Shuten City Engineer	9-15-99 Date	ı	CITY OF SALEM DEPARTMENT OF PUBLIC WORKS				
					STANDARD PLAN TYPICAL STREET SECTIONS			
2	REVISED NOTES	6-99	I.D.F.					
1	CONVERT TO CAD DWG.				DRAWN BY GS			
No.	Description	Date	Ву	Appr		I NM 318		
	REVISION		CHECKED BY RWL					

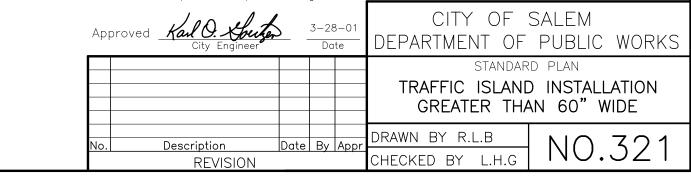


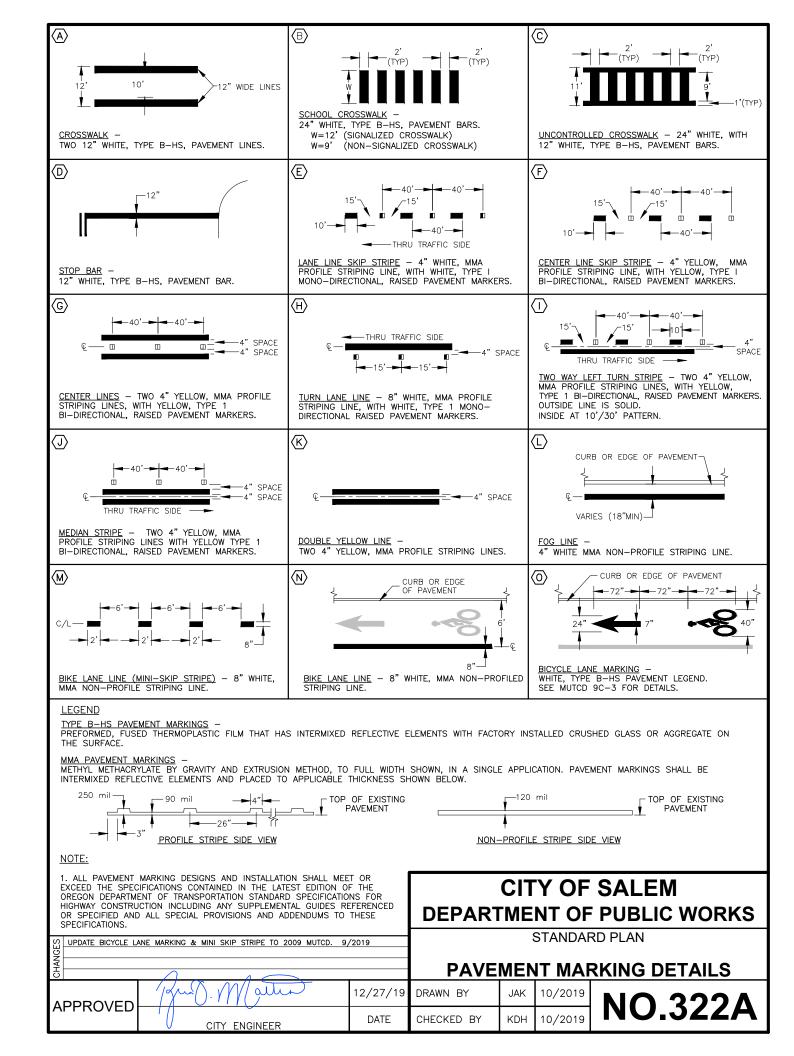


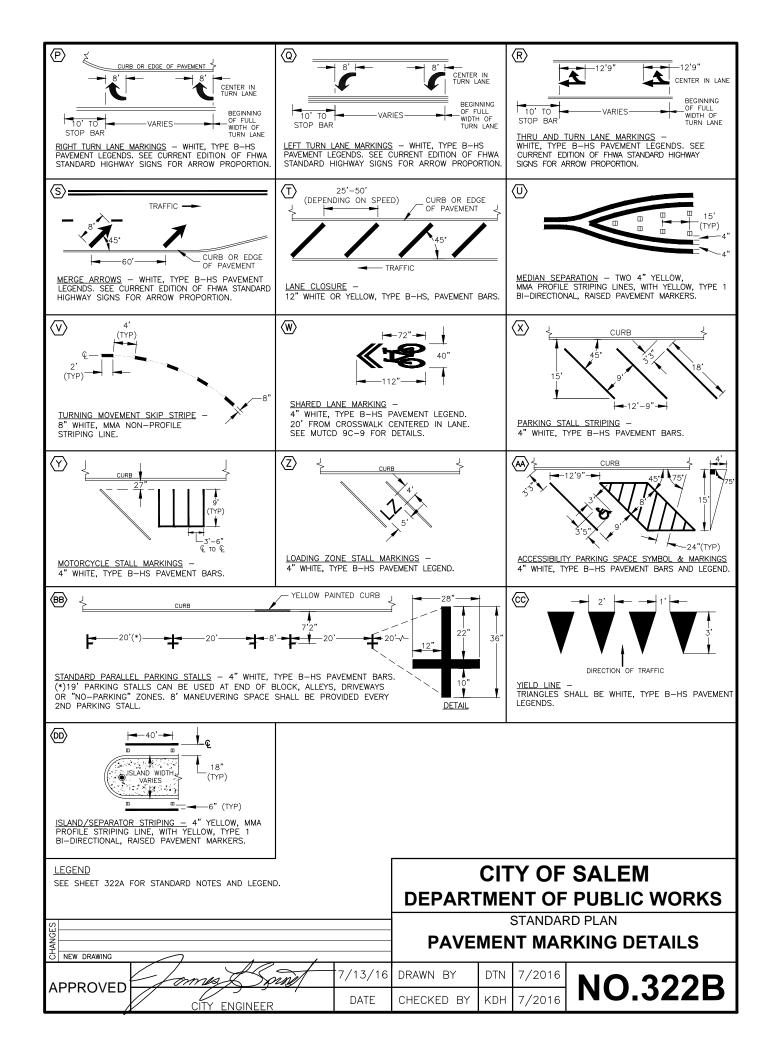


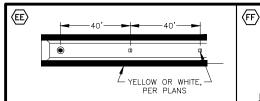
- 1. Prior to construction the Engineer shall submit a proposed landscaping plan and cross section for approval by Public Works.
- Ground cover landscaping requires a minimum of 8" of planting soil mix bedding above either natural subgrade or imported topsoil compacted at 80% over natural subgrade.
- Tree landscaping requires a bedding of either natural subgrade or imported topsoil compacted at 80% over natural subgrade.
- 4. Match the existing cross slope of the roadway at each end of the island. Entire length of landscaped island section to be at 8.33% slope from top of curb grade.

ISLANDS GREATER THAN 24" WIDE.

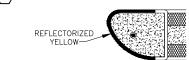




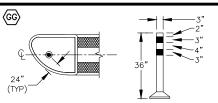




TRAFFIC SEPARATOR AND TRANSITIONS PAINTING - REFLECTORIZED PAINT LINES, WITH TYPE 1 BI-DIRECTIONAL, RAISED PAVEMENT MARKERS.



ISLAND PAINTING
WHEN WIDTH IS GREATER THAN 24" —
PAINT THE RAISED MEDIAN NOSE CURB
REFLECTORIZED YELLOW.



TUBULAR MARKERS — POSTS SHALL BE ROUND, TYPE 3 SURFACE MOUNTED, BRIGHT YELLOW WITH TWO HIGH INTENSITY REFLECTIVE BANDS.

LEGEND

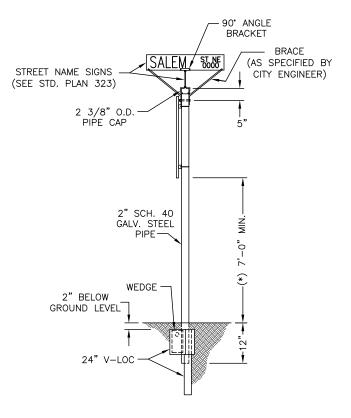
SEE SHEET 322A FOR STANDARD NOTES AND LEGEND.

CITY OF SALEM DEPARTMENT OF PUBLIC WORKS

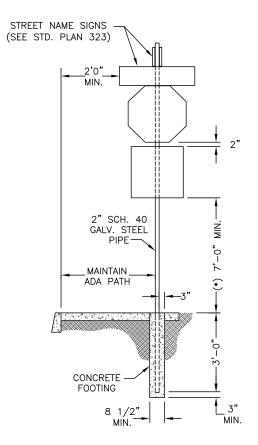
STANDARD PLAN

PAVEMENT MARKING DETAILS

_	-								
ı	じ NEW DRAWING								
	APPROVED	Jomes Spine 7/13/	16	DRAWN BY	DTN	7/2016	NO 222C		
APPROVE	CITY ENGINEER DATE		CHECKED BY	KDH	7/2016	NO.322C			

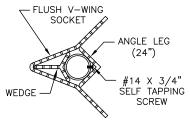


PIPE SIGN SUPPORT DETAIL (SOFTSCAPE)

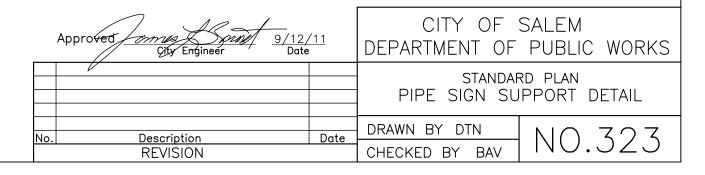


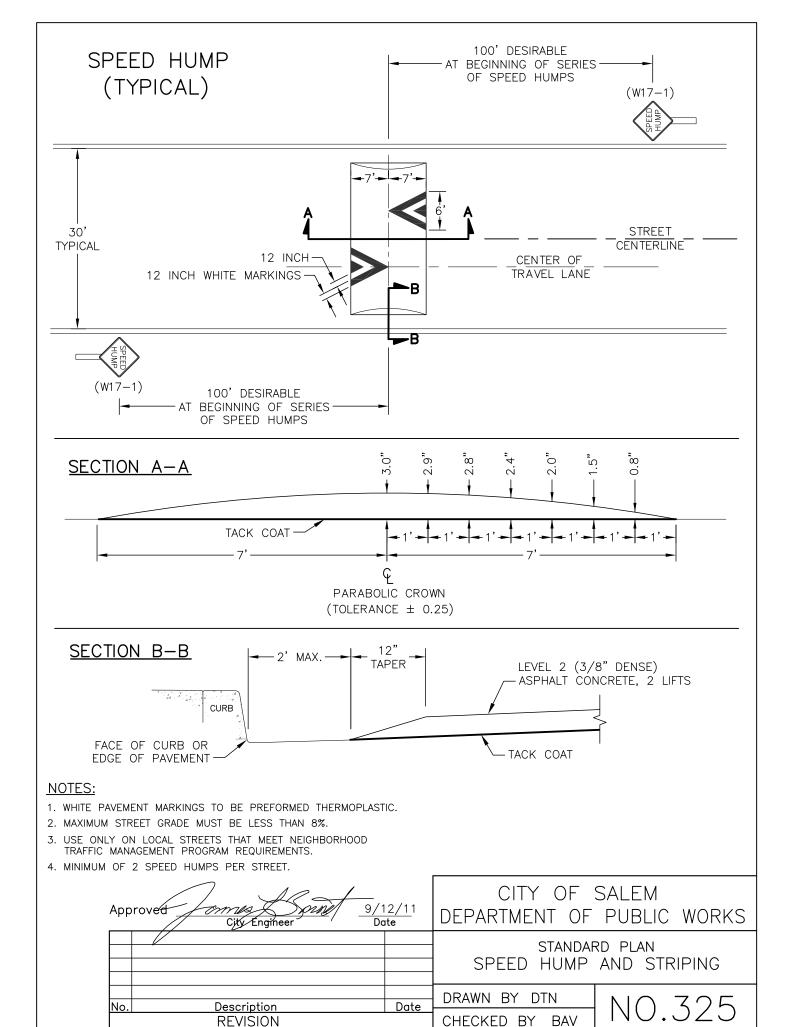
PIPE SIGN SUPPORT DETAIL (HARDSCAPE)

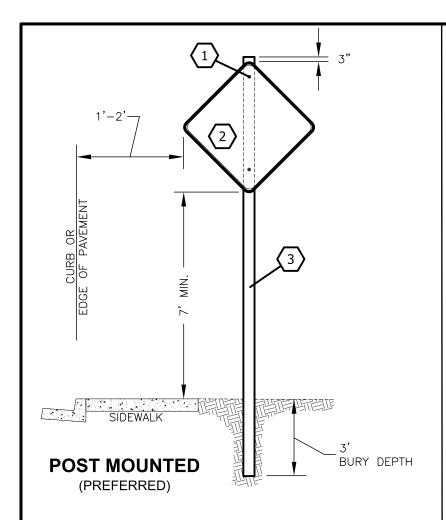
- HOT DIP GALVANIZE AFTER FABRICATION STANDARD 2" WELDED STEEL PIPE CONFORM TO THE ASTM 'SPECIFICATIONS FOR WELDED STEEL PIPE' A120 AND A123 FOR GALVANIZING.
- 2. ALL PIPE SHALL BE CAPPED AS APPROVED BY ENGINEER WHEN STREET NAME SIGNS ARE NOT REQUIRED.
- MOUNT PIPE IN V-LOC ANCHOR. (V-LOC IS A METAL SLEEVE ANCHOR SYSTEM TO SUPPORT THE POST).
- 4. INSTALL V-LOC WITH TOP 2" BELOW GROUND LEVEL.
- 5. V-LOC SHALL BE TAMPED IN FIRMLY FOR SUPPORT.
- 6. USE OF BOLTED FLANGE CONNECTION ONLY BY APPROVAL OF THE CITY ENGINEER.
- 7. BREAKAWAY DEVICES REQUIRED IN RAISED ISLAND AREAS.
- * 7'-0" IS MINIMUM HEIGHT TO BOTTOM OF LOWER SIGN IN URBAN AREAS. 8'-0" IS MINIMUM HEIGHT WHEN SIGNS ARE PLACED ABOVE A BIKE PATH.



POST MOUNTING SOCKET



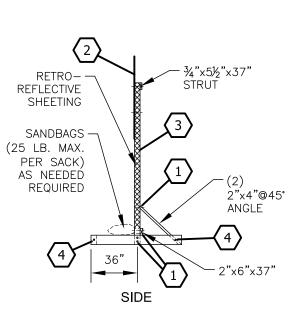


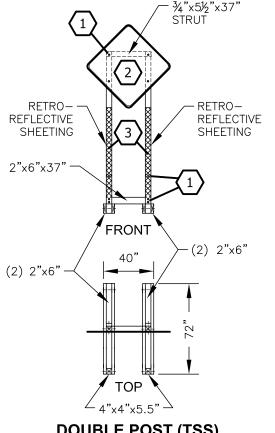


- 1) INSTALL WITH (2) 5/6"x2 ½" LAG BOLTS MINIMUM PER SIGN.
- 2 30"x30" SIGN TYPICAL (CITY) 36"x36" ARTERIAL COLLECTOR
- (3) 4"x4"X12'
- 4)(1)¾"x3 LAG SCREW PER SIDE

NOTES:

- DOUBLE POST (TSS) SHALL ONLY BE USED WITH PERMISSION OF THE PROJECT MANAGER.
- WHEN NOT IN USE DO NOT TIP OVER (TSS). TURN AWAY FROM TRAFFIC OR COVER SIGN.
- SIGNS SHALL COMPLY WITH AMERICAN TRAFFIC SAFETY SERVICE ASSOCIATION ATTSSA QUALITY GUIDELINES FOR TRAFFIC CONTROL DEVICES.
- DO NOT PLACE OR STACK SANDBAG MORE THAN 24" ABOVE THE GROUND.





DOUBLE POST (TSS) (BY PERMISSION ONLY)

GENERAL NOTE:

AVOID LOCATING SIGN SUPPORTS IN AREAS DESIGNATED FOR BICYCLE OR PEDESTRIAN TRAFFIC. WHEN (TSS)'S OR POST MOUNTED SIGNS ARE LOCATED ON A SIDEWALK OR BICYCLE FACILITY, INSTALL SECONDARY SIGN (RIDER) AT A MINIMUM HEIGHT OF 7' FROM TOP OF SIDEWALK OR BICYCLE FACILITY TO BOTTOM OF RIDER.

CITY OF SALEM DEPARTMENT OF PUBLIC WORKS

STANDARD PLAN
TEMPORARY SIGN SUPPORTS

APPROVED	4	mg H+	"uemy"	8/16/17	DRAWN BY	JAK	8/2017
APPROVED		CITY ENGINEER	AIC	DATE	CHECKED BY		8/2017

NO.326