

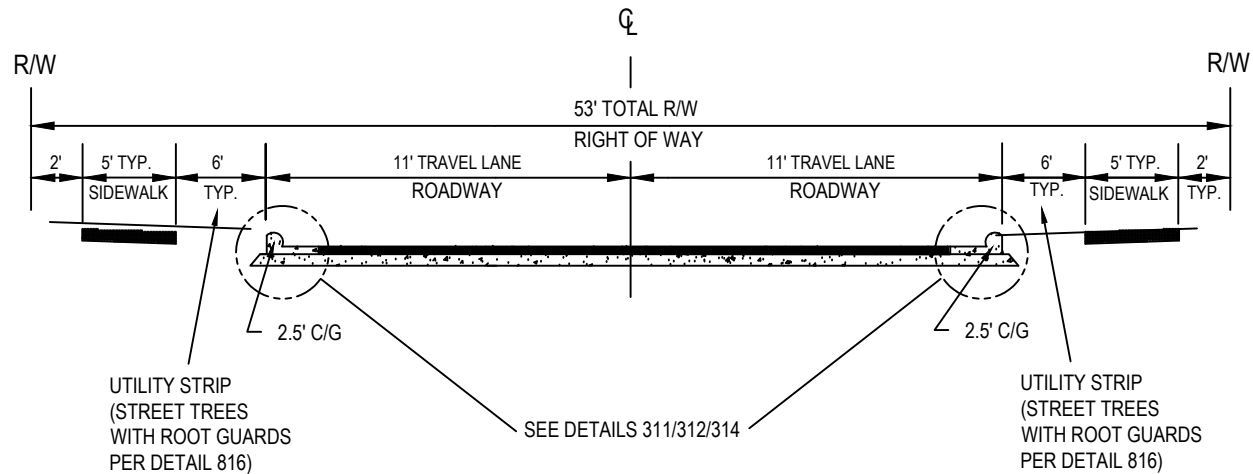
**MINIMUM
PAVEMENT DESIGN**

1-1/2" 9.5B

1-1/2" 9.5C

8" A.B.C.

STAGE CONSTRUCTION FOR
SURFACE AT TWO LIFTS SO
PROPER TAPER OCCURS AT
TRANSITION.



RESIDENTIAL STREET WITH SINGLE SIDE ON-STREET PARKING

NOTES:

1. NORMAL CROWN OF 1/4" PER FOOT UNLESS OTHERWISE SPECIFIED BY THE DIRECTOR OF ENGINEERING.
2. PAVEMENT DESIGN SHALL BE AS SHOWN, OR AS CALCULATED, WHICHEVER IS GREATER.
3. PLEASE REFERENCE THE COMPREHENSIVE TRANSPORTATION PLAN FOR ADDITIONAL CROSS SECTIONS.

DRAWING NOT TO SCALE

MINIMUM STREET STANDARD FOR RESIDENTIAL STREETS

TOWN OF HOLLY SPRINGS

STANDARD DETAIL NUMBER: HS302

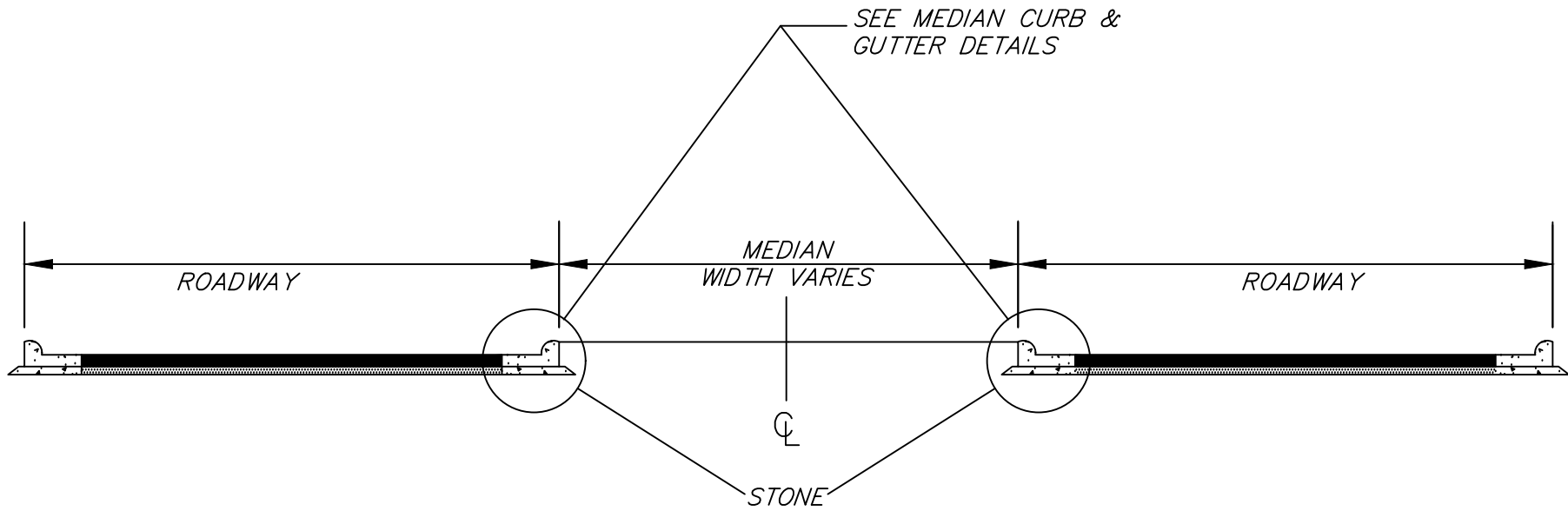
DATE

REVISIONS

12/7/21

11/19/24





NOTES:

1. MEDIANS LESS THAN 3FT IN WIDTH SHALL BE CONCRETE.
2. MEDIANS 3FT TO 6FT IN WIDTH SHALL BE GRASS.
3. MEDIANS GREATER THAN 6FT IN WIDTH SHALL BE LANDSCAPED.
4. LANDSCAPE AND GRASS MEDIANS REQUIRE A MINIMUM OF 6" OF APPROVED TOPSOIL.
5. MEDIANS WITH IRRIGATION REQUIRE FRENCH DRAINS INSTALLED BEHIND THE CURB AND GUTTER AND PIPED TO A STORM DRAINAGE COLLECTION SYSTEM.

DRAWING NOT TO SCALE

STANDARD MEDIAN DESIGN

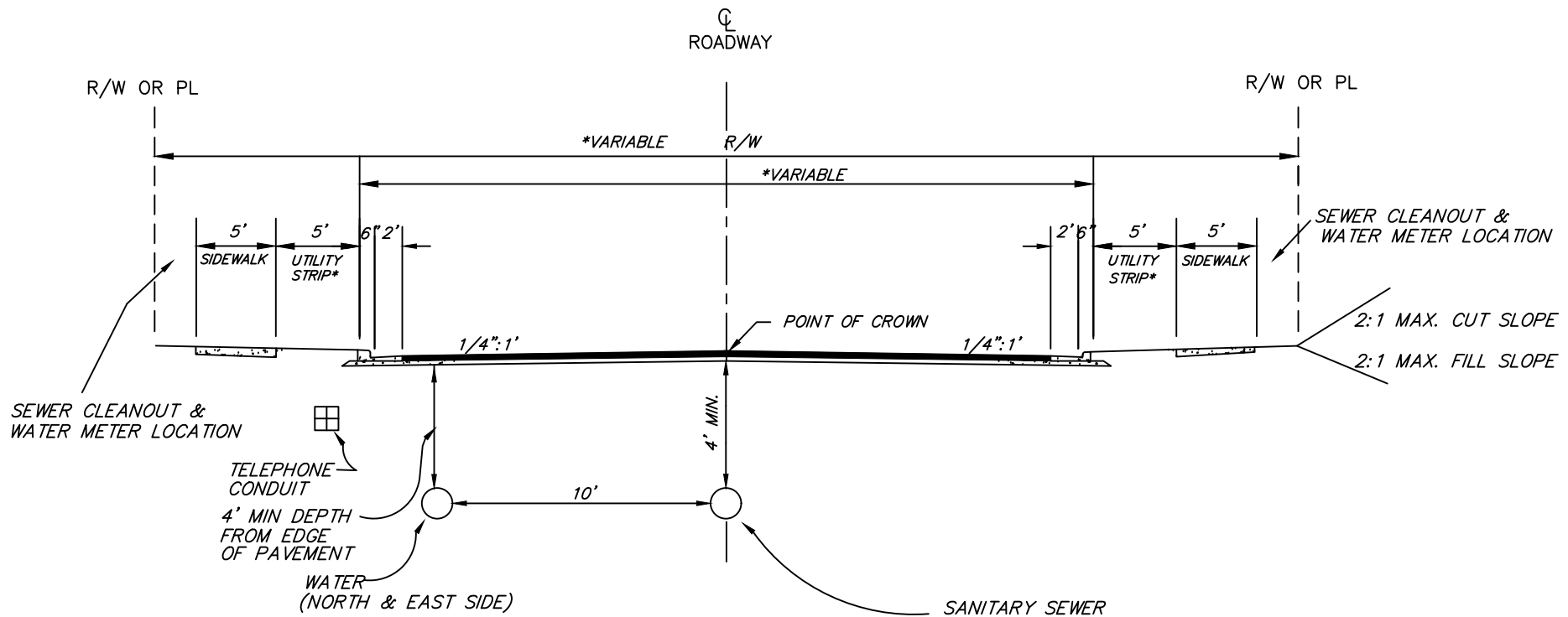
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: **HS308**

DATE
2/8/10

REVISIONS





NOTES:

1. THERE SHALL BE AN 18" VERTICAL SEPARATION BETWEEN WATER AND SEWER LINES
2. WATER AND/OR SANITARY SEWER LINES SHALL BE A MINIMUM OF TWO(2) FEET FROM THE EDGE OF THE CURB AND GUTTER.

* DIMENSION VARIES — REFER TO APPROVED CONSTRUCTION DRAWINGS

DRAWING NOT TO SCALE

STANDARD STREET CROSS SECTION
SHOWING UTILITY LOCATIONS

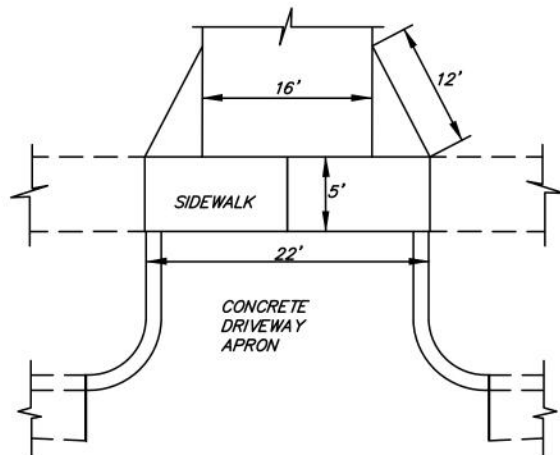
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: **HS310**

DATE REVISIONS

8/30/19

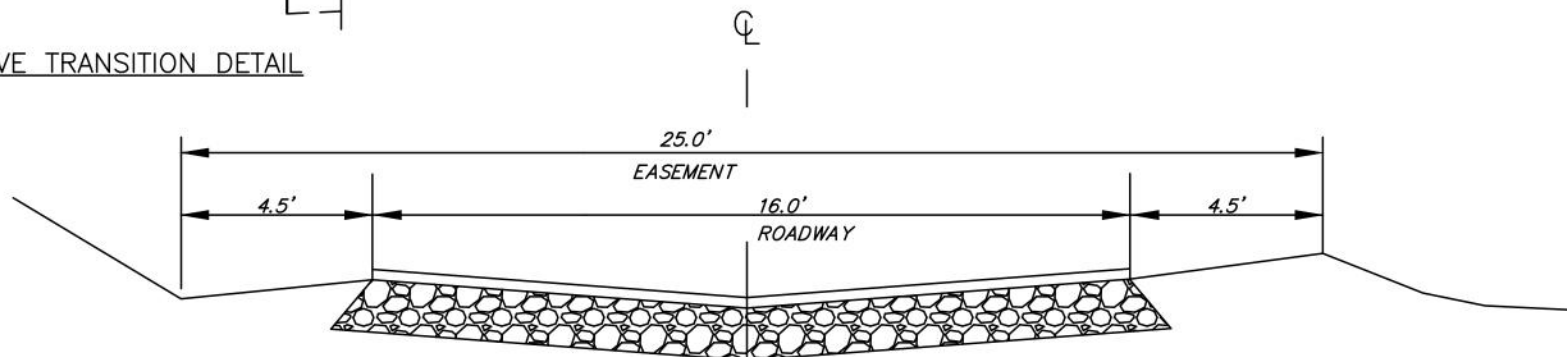




ALLEY DRIVE TRANSITION DETAIL

**MINIMUM
PAVEMENT DESIGN**

2" 1-2
8" A.B.C.



25' PRIVATE EASEMENT
16' ROADWAY SECTION

NOTES:

1. DRAINAGE VALLEY OF $\frac{1}{4}$ " PER FOOT UNLESS OTHERWISE DIRECTED BY THE DIRECTOR OF ENGINEERING.
2. PAVEMENT DESIGN SHALL BE AS SHOWN, OR AS CALCULATED, WHICHEVER IS GREATER.
3. PAVEMENT RADIUS AT INTERSECTION SHALL BE 20FT.
4. PROPERTY LINE RADIUS AT INTERSECTIONS SHALL BE 20FT.
5. IF CURB AND GUTTER IS PROVIDED ON ALLEYWAY IT MUST BE ADDITIONAL TO 16' PAVED TRAVEL LANE.

DRAWING NOT TO SCALE

STANDARD STREET CROSS SECTIONS-ALLEYS WITH INVERTED CROWN

STANDARD DETAIL NUMBER: HS311

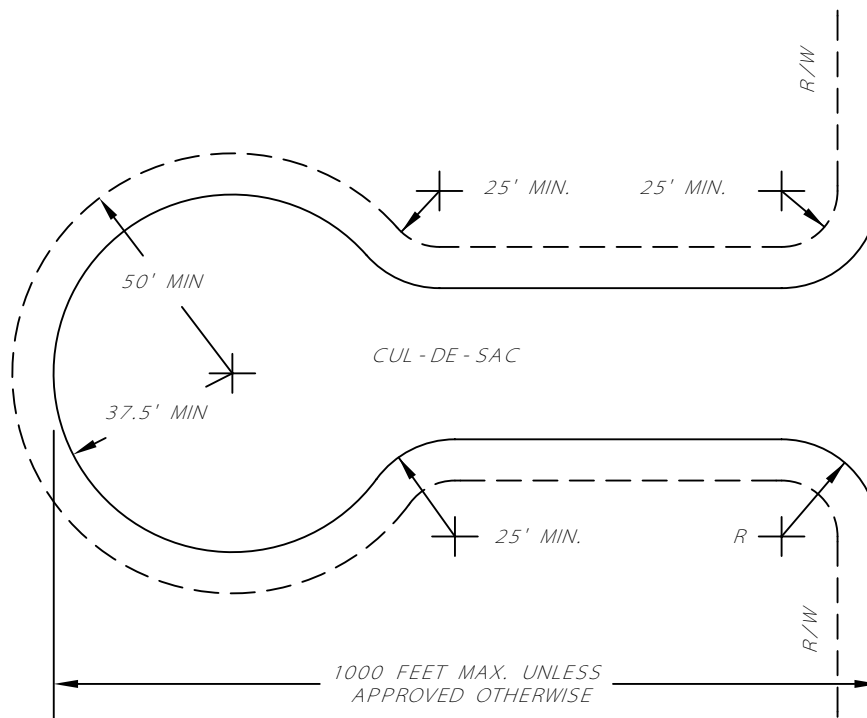
DATE REVISIONS

2/8/10

7/1/25

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT





R= 25' MIN. WHEN INTERSECTING WITH
A MINOR STREET.

R= 30' MIN. ON ALL OTHER INTERSECTIONS

DRAWING NOT TO SCALE







CUL - DE - SAC DIMENSIONS

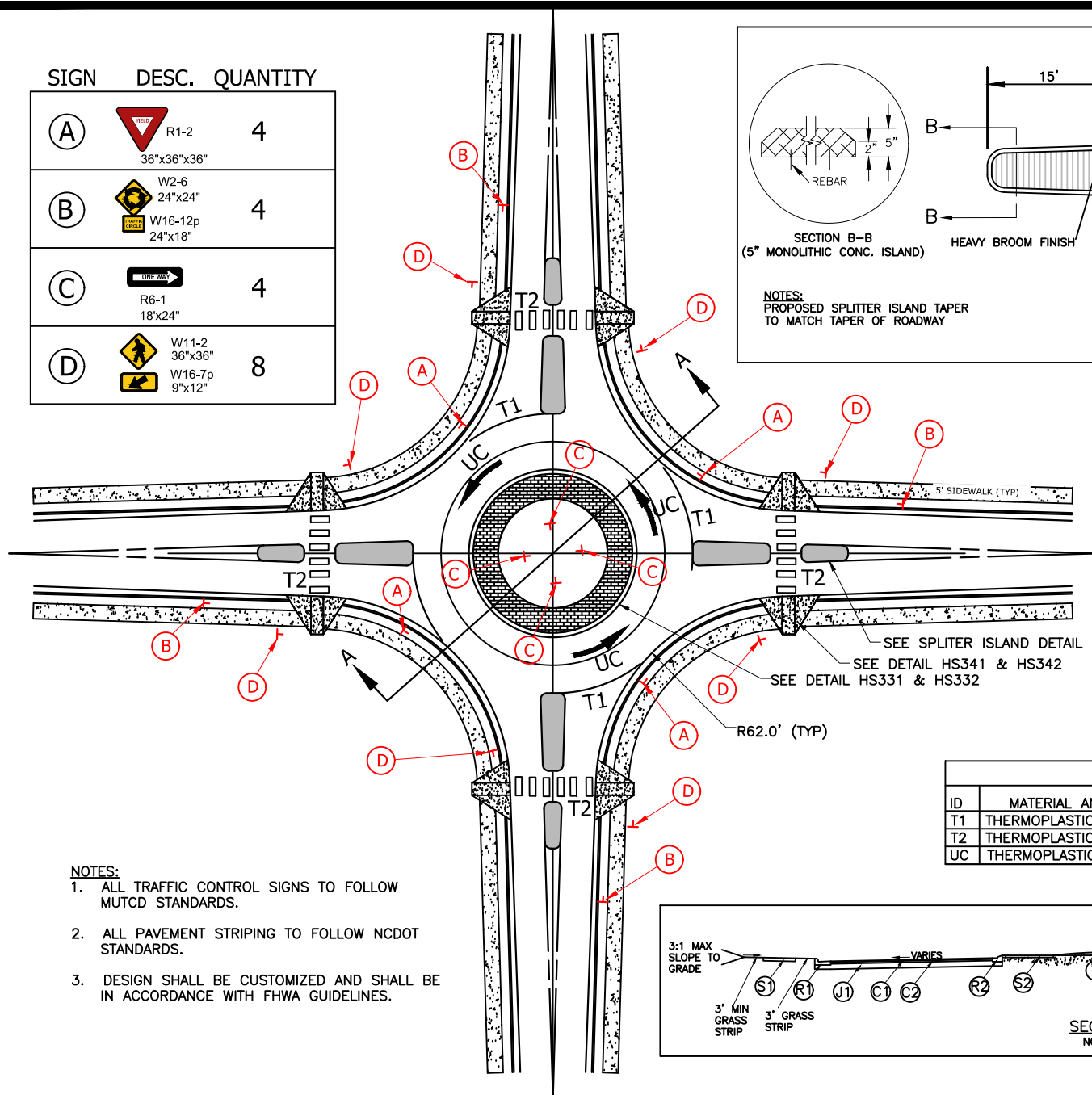
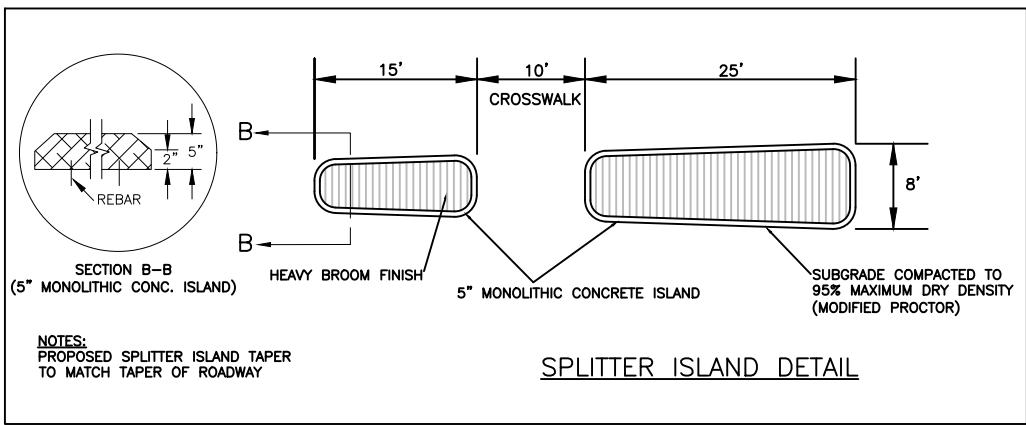
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBERHS312

DATE	REVISIONS
2/8/10	



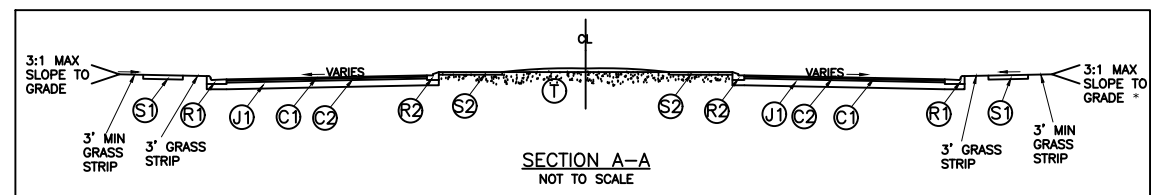
SIGN	DESC.	QUANTITY
(A)	 R1-2 36"x36"x36"	4
(B)	 W2-6 24"x24"  W16-12p 24"x18"	4
(C)	 R6-1 18"x24"	4
(D)	 W11-2 36"x36"  W16-7p 9"x12"	8



PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE
C2	PROP. APPROX. 1-2" ASPHALT CONCRETE BINDER COURSE
J1	PROP. 8" AGGREGATE BASE COURSE
R1	2'-6" CONCRETE STANDARD CURB AND GUTTER
R2	1'-6" CONCRETE MEDIAN CURB AND GUTTER
S1	4" CONCRETE SIDEWALK
S2	6" CONCRETE APRON WITH STABILIZING MATERIAL AS NOTED ON DETAIL
T	FILL MATERIAL

PAVEMENT MARKING LINES		
ID	MATERIAL AND SIZE	DESCRIPTION
T1	THERMOPLASTIC (16", 120MILS)	WHITE ENTRY YIELD LINE.
T2	THERMOPLASTIC (24", 120MILS)	6' WHITE CROSSWALK LINE ON 4' CENTERS.
UC	THERMOPLASTIC (90MILS)	STRAIGHT ARROW

- NOTES:**
1. ALL TRAFFIC CONTROL SIGNS TO FOLLOW MUTCD STANDARDS.
 2. ALL PAVEMENT STRIPING TO FOLLOW NCDOT STANDARDS.
 3. DESIGN SHALL BE CUSTOMIZED AND SHALL BE IN ACCORDANCE WITH FHWA GUIDELINES.



DRAWING NOT TO SCALE

HEAVY BROOM FINISH IN A RADIAL
PATTERN PERPENDICULAR TO CURBING.
HEAVY BROOM FINISH IN A RADIAL
PATTERN PERPENDICULAR TO CURBING
WITH STAMPED BRICK PATTERN

PICTURE FRAME
TOOLED EDGE

EXPANSION JOINT SPACED AT TYPICAL EVERY 4
BLOCKS (48") HORIZONTALLY. JOINTS IN WHICH NO
EXPANSION JOINT PROVIDED SHALL BE SAW CUT

18" MEDIAN
CURB & GUTTER

EXPANSION JOINT

VEHICULAR STAMPED
CONC. PAVEMENT (APRON)

NOTE:

1. DIMENSIONS OF ROUND-ABOUTS VARY PER DESIGN STANDARD.
2. STAMPED CONCRETE SHOULD BE BRICK PATTERN AND RED BRICK COLOR.

DRAWING NOT TO SCALE

ROUNABOUT HARDSCAPE DETAIL

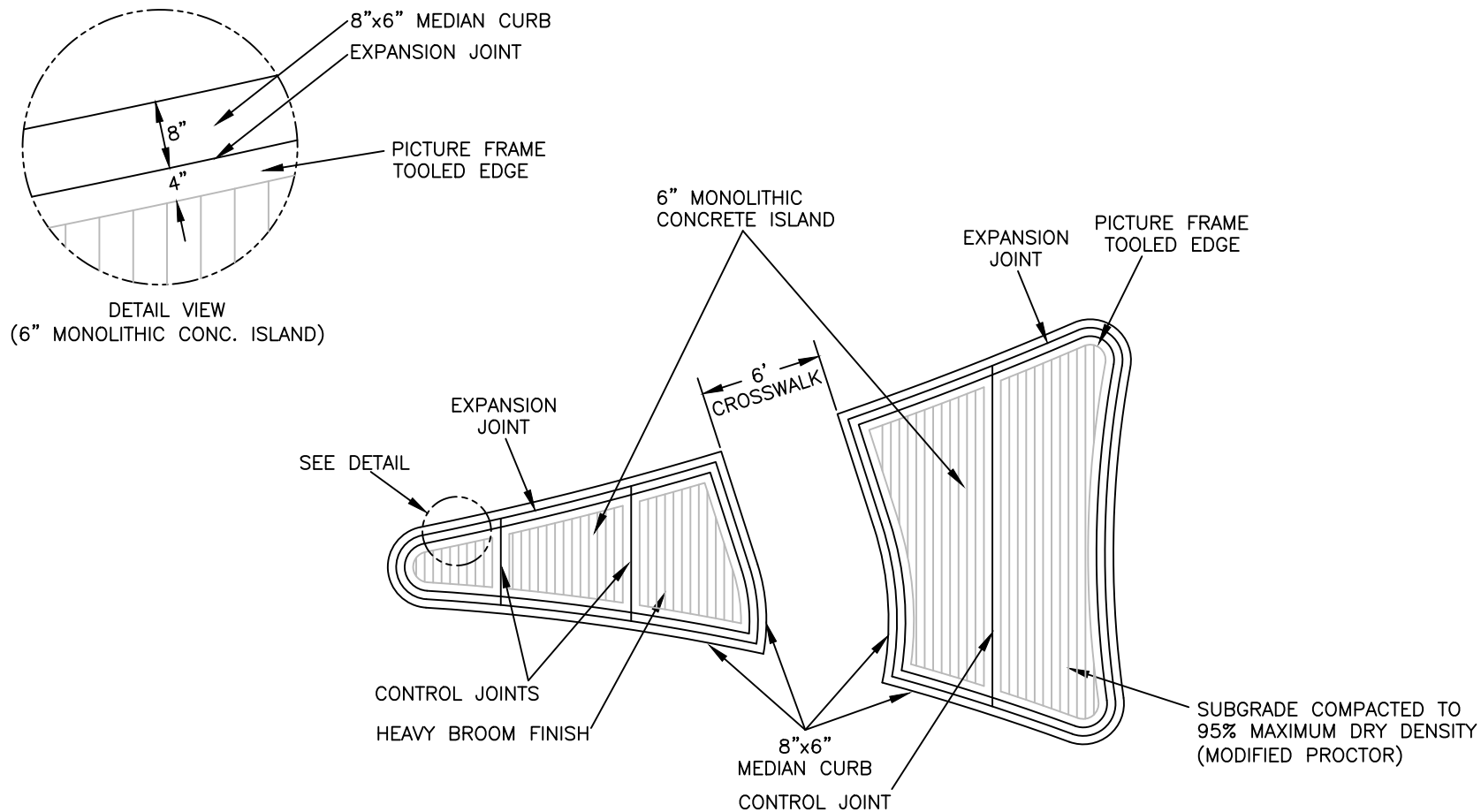
TOWN OF HOLLY SPRINGS

STANDARD DETAIL NUMBER: HS314

DATE REVISIONS

12/19/23





NOTE:
GEOMETRY VARIES PER DESIGN.

DRAWING NOT TO SCALE

CONCRETE SCORING (SPLITTER ISLAND) DETAIL FOR ROUNDABOUT

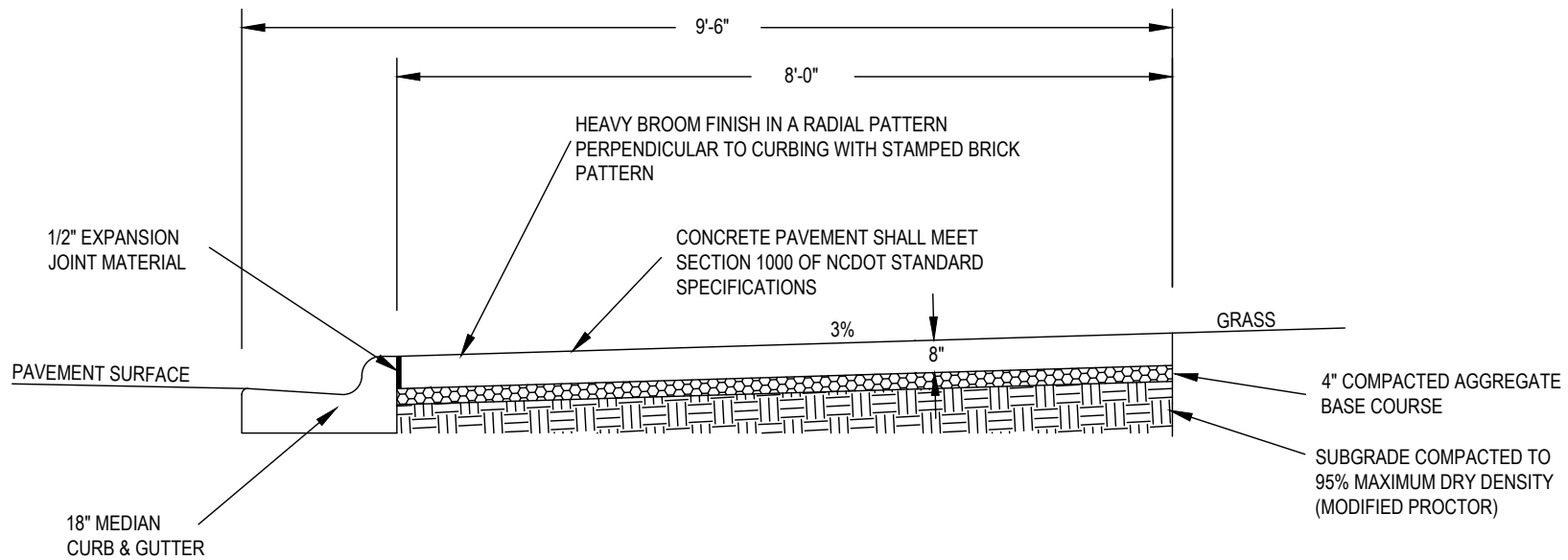
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: **HS315**

DATE REVISIONS

2/23/10





NOTE:

1. SEE STANDARD DETAIL NUMBER HS316 FOR ADDITIONAL INFORMATION.

DRAWING NOT TO SCALE

VEHICULAR CONCRETE PAVEMENT DETAIL AT ROUNDABOUT

TOWN OF HOLLY SPRINGS

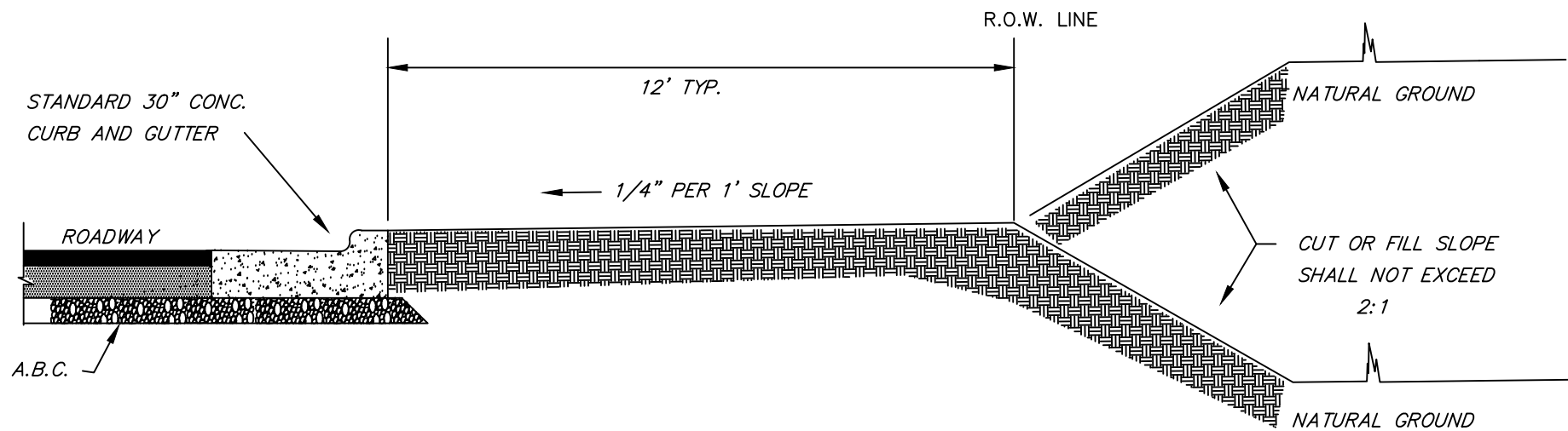
STANDARD DETAIL NUMBER: HS316

DATE

REVISIONS

12/19/23





DRAWING NOT TO SCALE

STANDARD SHOULDER SECTION WITHOUT SIDEWALK

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

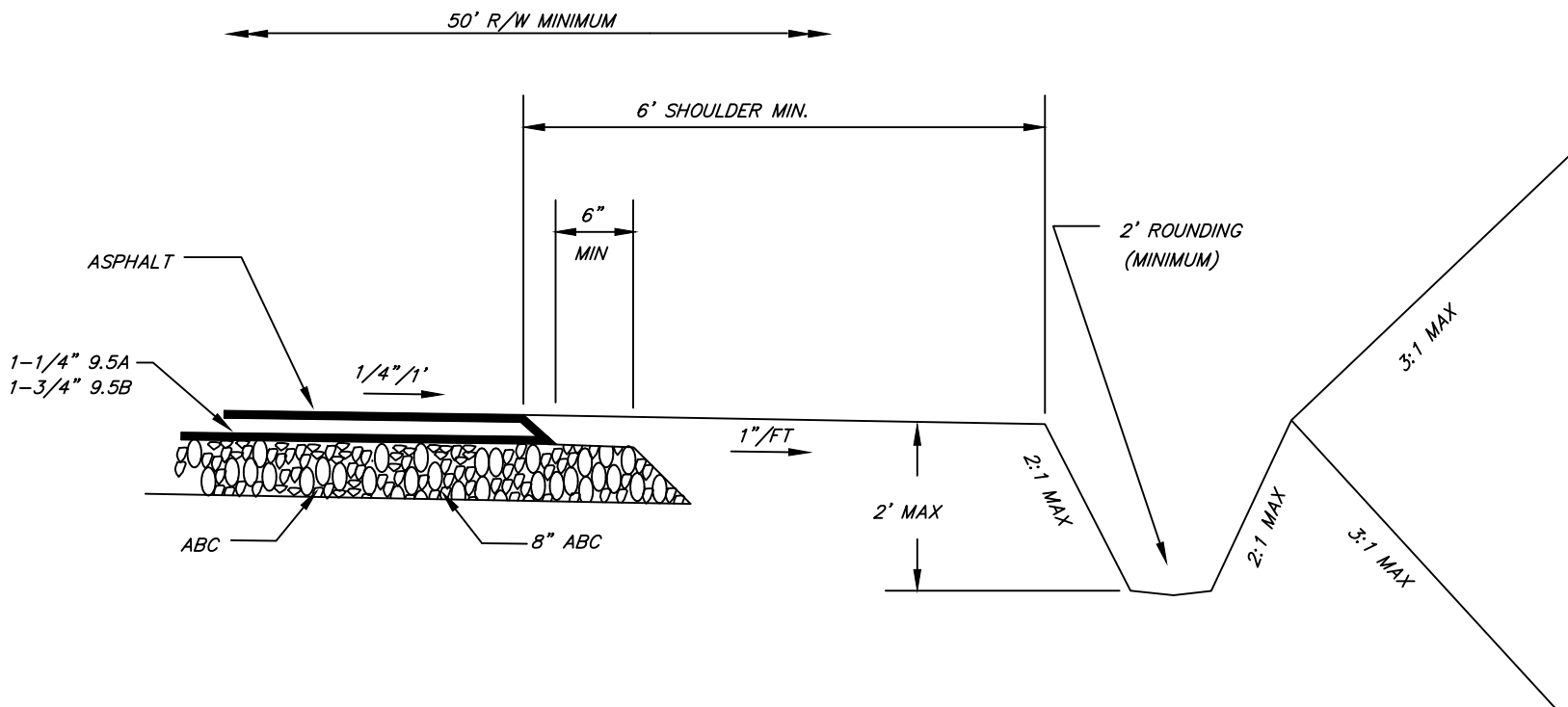
STANDARD DETAIL NUMBER: **HS317**

DATE

8/30/19

REVISIONS





NOTES:

THIS SECTION MAY ONLY BE USED WHEN DESIGNATED
TO BE WITHOUT CURB AND GUTTER ON APPROVED PLANS.

DRAWING NOT TO SCALE

STANDARD SECTION WITHOUT CURB AND GUTTER

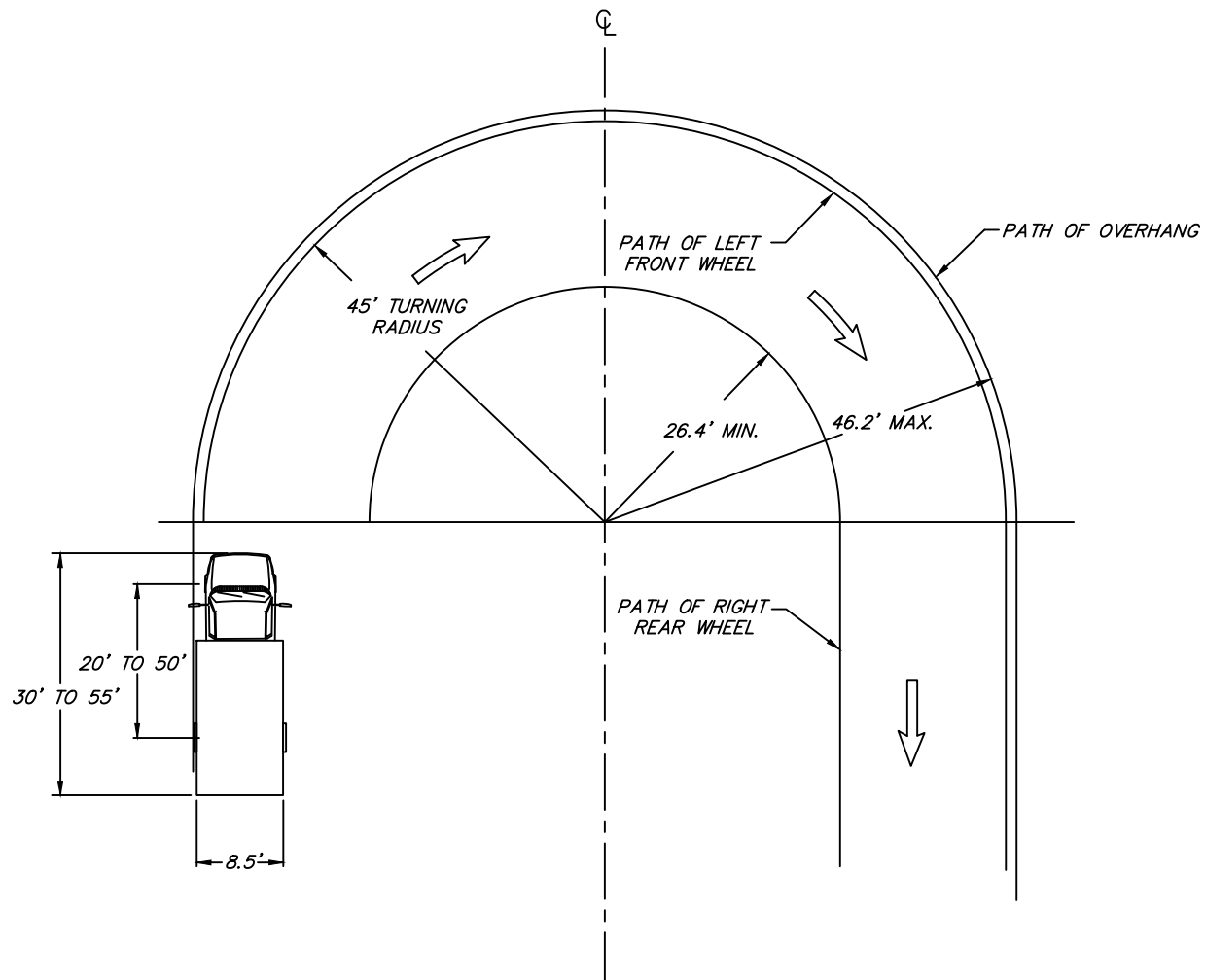
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: **HS318**

DATE REVISIONS

6/22/15





NOTE:

THIS DETAIL PROVIDED FOR USE IN
PUMP STATION DESIGN.

DRAWING NOT TO SCALE

**STANDARD TURNING RADII TO ACCOMMODATE BOTH
AN SU AND A WB-50 DESIGN VEHICLE**

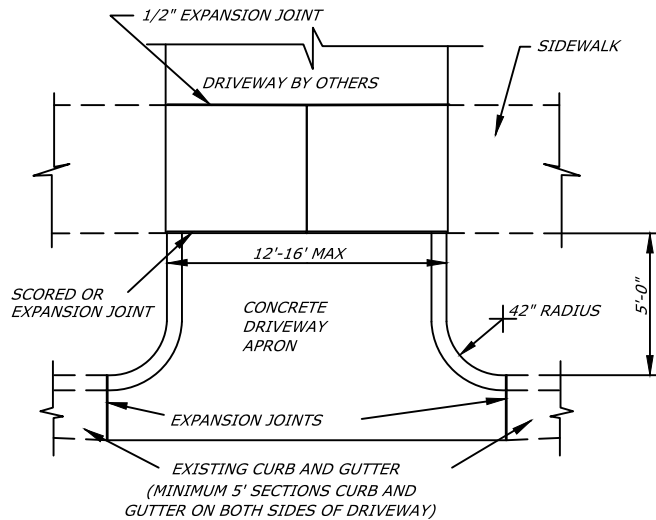
STANDARD DETAIL NUMBER: HS319

DATE REVISIONS

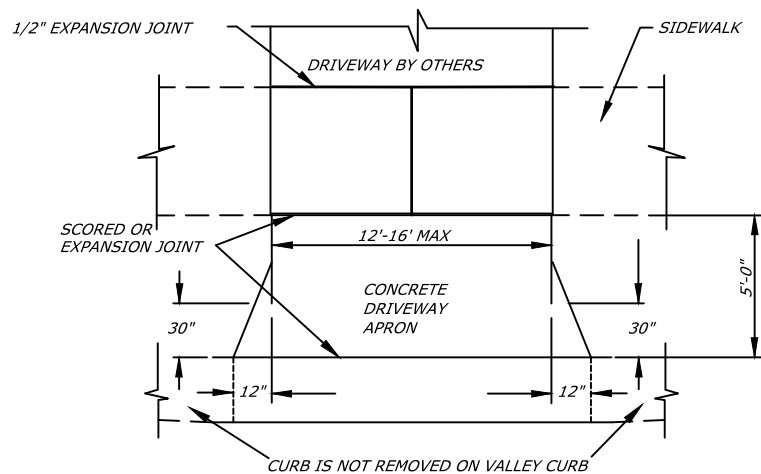
2/8/10

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

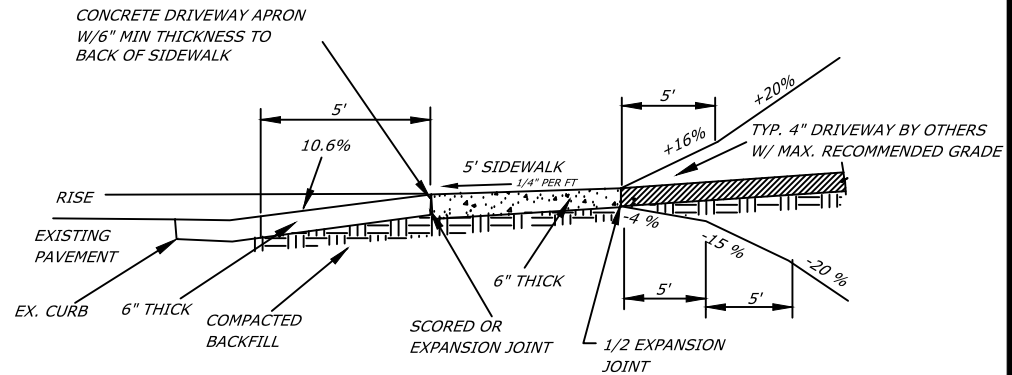




PLAN VIEW - TRADITIONAL CURB



PLAN VIEW - VALLEY CURB



TYPICAL SECTION

NOTES:

1. CURB SHALL BE TAPERED TO FINISH FLUSH WITH SIDEWALK.
2. BEGINNING RADIUS SHALL NOT ENCROACH ON ADJACENT PROPERTIES BASED ON A PROJECTION OF THE PROPERTY LINE FROM THE RIGHT OF WAY TO THE CURB LINE.
3. RESIDENTIAL DRIVEWAYS TO BE 12' - 16' IN WIDTH.
4. COMMERCIAL AND INDUSTRIAL DRIVEWAYS TO BE A MAXIMUM OF 36' WIDE.
5. ALL CONCRETE SHALL BE 3000 PSI.
6. 12' MAX. FOR 1 CAR GARAGES.
7. 16' MAX FOR 2 OR 3 CAR GARAGES.
8. COMMERCIAL AND INDUSTRIAL DRIVEWAYS TO BE MAX OF 36'
9. STREET TYPES TURNOUTS SHALL BE USED WHEN DRIVEWAY ADT IS GREATER THAN 500 VEHICLES.

DRAWING NOT TO SCALE

STANDARD DRIVEWAY APRON

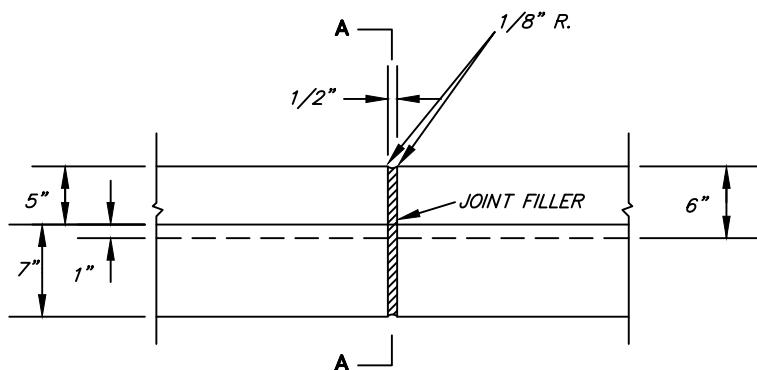
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: **HS320**

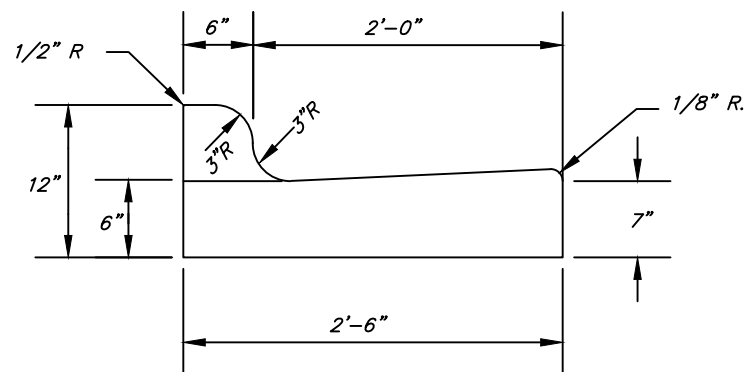
DATE REVISIONS

2/8/10

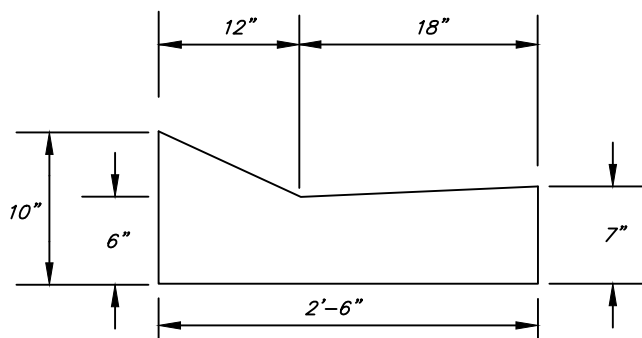




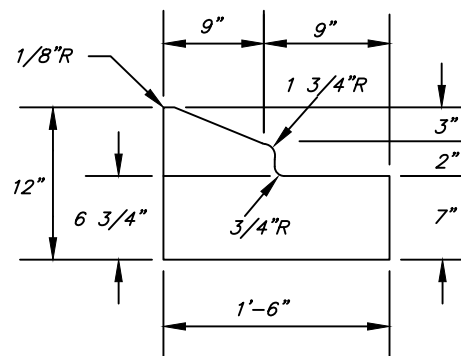
TRANSVERSE EXPANSION JOINT
FRONT ELEVATION



SECTION A-A
SIDE ELEVATION
STANDARD CURB



VALLEY CURB AND GUTTER
SIDE ELEVATION



MEDIAN CURB AND GUTTER
SIDE ELEVATION

NOTES:

1. CONCRETE SHALL BE 3,000 P.S.I.
2. CONTRACTION JOINTS SHALL BE SPACED AT 10' INTERVALS. (15' SPACING WILL BE ALLOWED WHEN A MACHINE IS USED)
3. REMOVAL OF ANY PORTION OF CURB AND GUTTER SHALL REQUIRE FULL REMOVAL AND REPLACEMENT SO THAT NO LONGITUDINAL SEAMS ARE CREATED.
4. MAINTAIN 50' MAX. BETWEEN JOINTS OR AT ALL RIGID OBJECTS.

DRAWING NOT TO SCALE

STANDARD CONCRETE CURB AND GUTTER

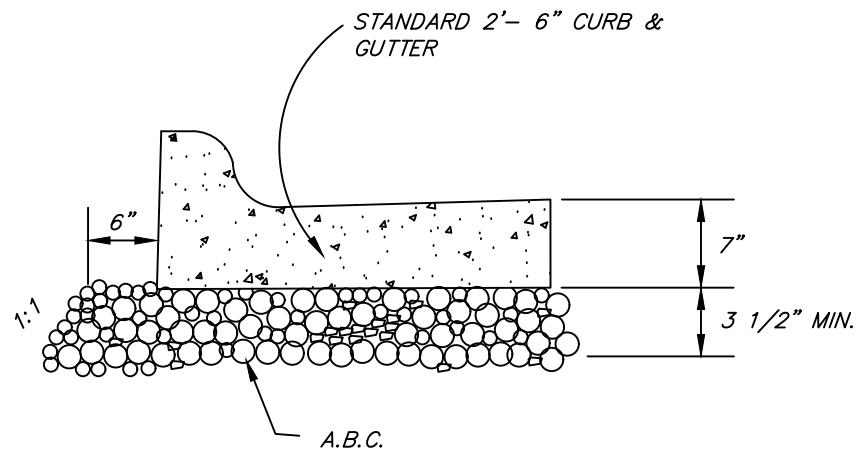
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: **HS321**

DATE REVISIONS

2/8/10





NOTES:

1. STONE IS REQUIRED UNDER ALL TYPES OF CURB AND GUTTER ON STREETS
2. STONE IS NOT REQUIRED ON PARKING LOTS

DRAWING NOT TO SCALE

A.B.C. UNDER CURB AND GUTTER

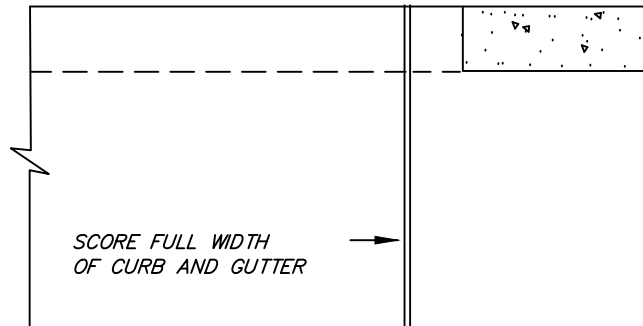
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: **HS322**

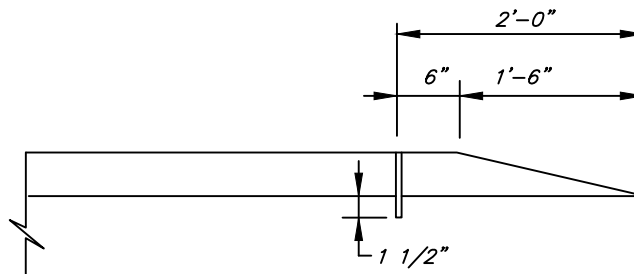
DATE REVISIONS

2/8/10

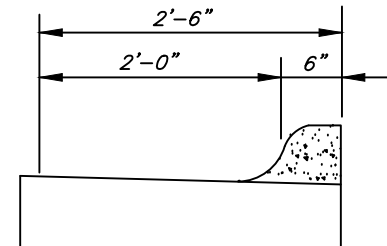




PLAN



FRONT



END

DRAWING NOT TO SCALE

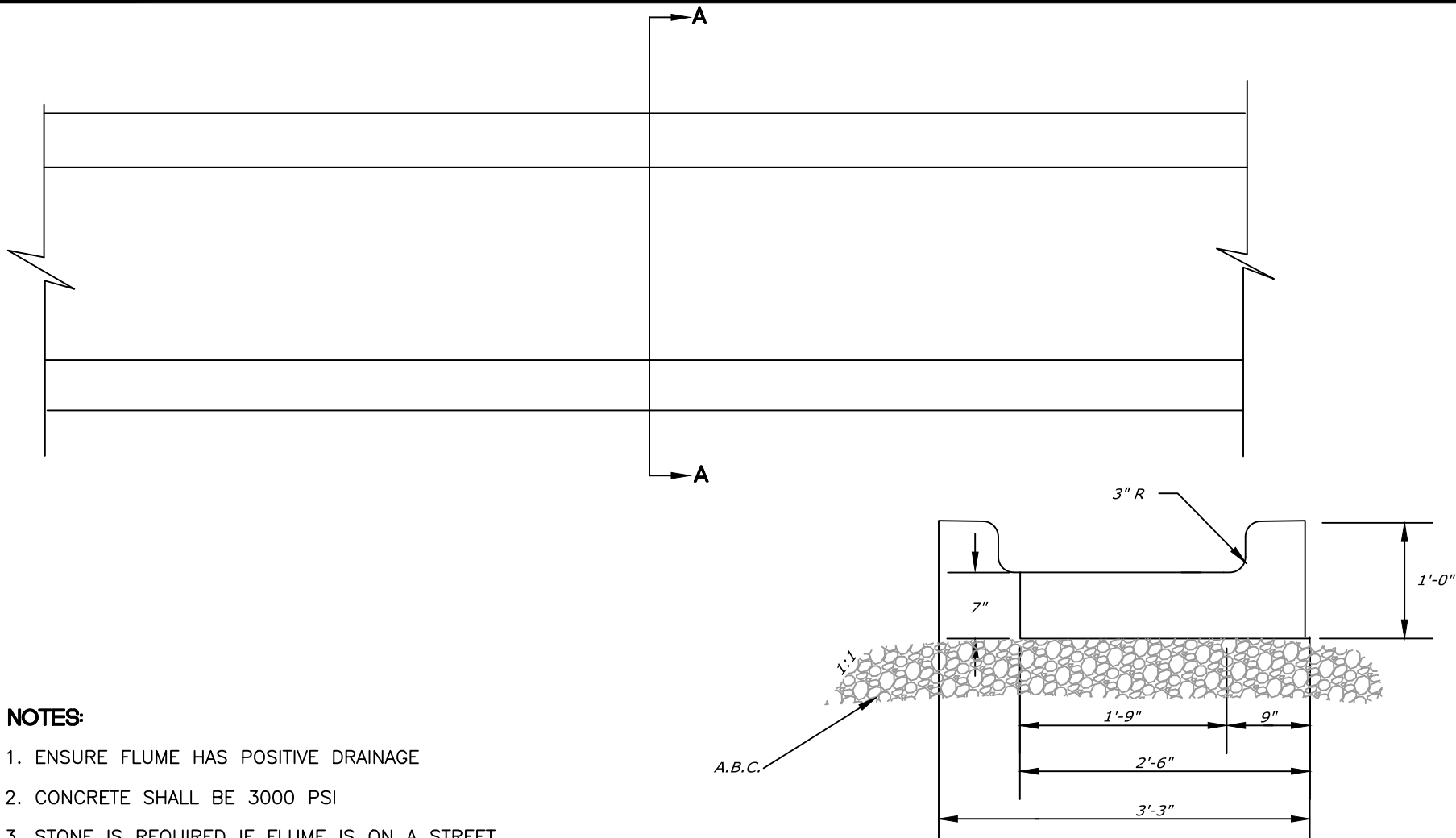
STANDARD METHOD OF ENDING CURB AND GUTTER

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: **HS323**

DATE	REVISIONS
2/8/10	





NOTES:

1. ENSURE FLUME HAS POSITIVE DRAINAGE
2. CONCRETE SHALL BE 3000 PSI
3. STONE IS REQUIRED IF FLUME IS ON A STREET
4. STONE IS NOT REQUIRED IF FLUME IS IN A PARKING LOT

SECTION A-A

DRAWING NOT TO SCALE

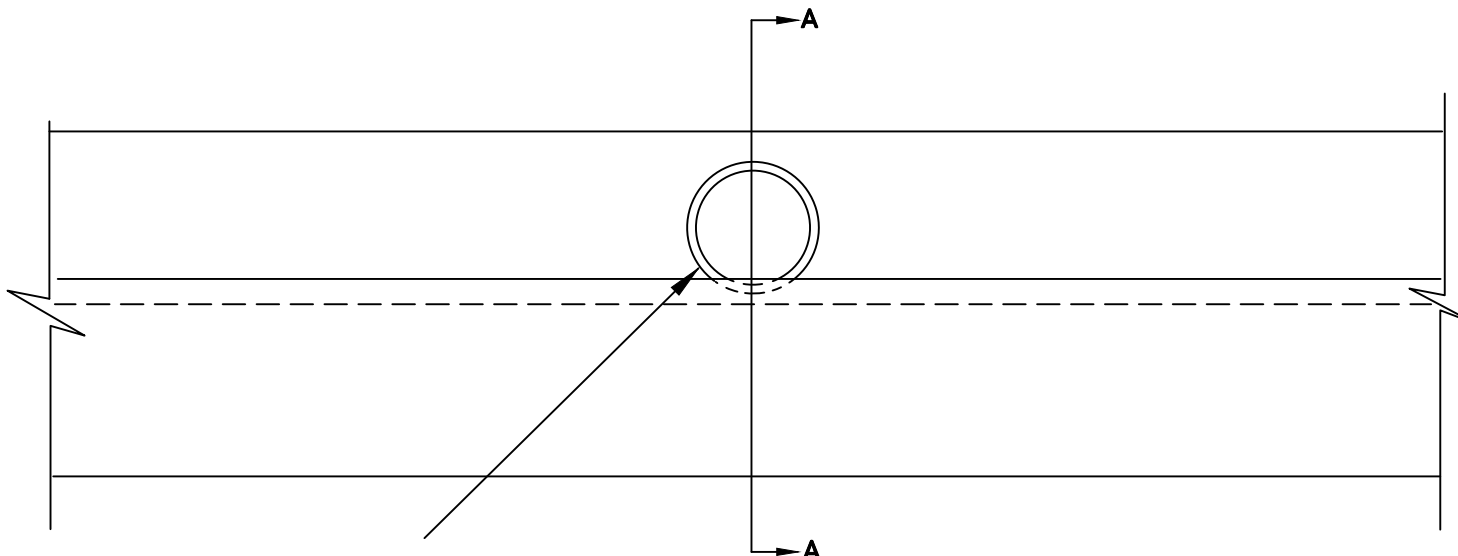
STANDARD FLUME

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS324

DATE	REVISIONS
2/8/10	

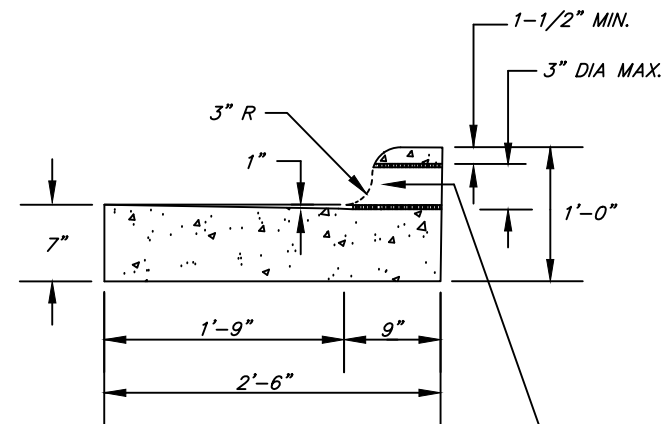




THE EDGES OF DRAIN HOLE
MUST BE ROUNDED AND FINISHED
SMOOTH AT THE FACE OF THE CURB

NOTES:

1. CURB DRAINS SHALL NOT BE CONSTRUCTED WITHIN 18" OF CONTRACTION OR EXPANSION JOINTS
2. OPENING GRADE MAY VARY BETWEEN A MAXIMUM SLOPE OF 1/2" PER FT. AND A MINIMUM OF 1/4" PER FT.
3. MORE THAN ONE HOLE MAY BE INSTALLED PROVIDED THE HOLES ARE LOCATED WITH 18" MINIMUM SPACING
4. IN LIEU OF CUTTING THE CURB TO INSTALL A THREE (3) INCH PIPE, A FOUR (4) INCH CONCRETE BORE MAY BE USED
5. ALL PIPE WITHIN TOWN RIGHT-OF-WAY TO BE RIGID PIPE NO FLEXIBLE PIPE ALLOWED



SEE GENERAL NOTES FOR REQUIRED SLOPE

SECTION A-A

DRAWING NOT TO SCALE

STANDARD CURB AND DRAIN

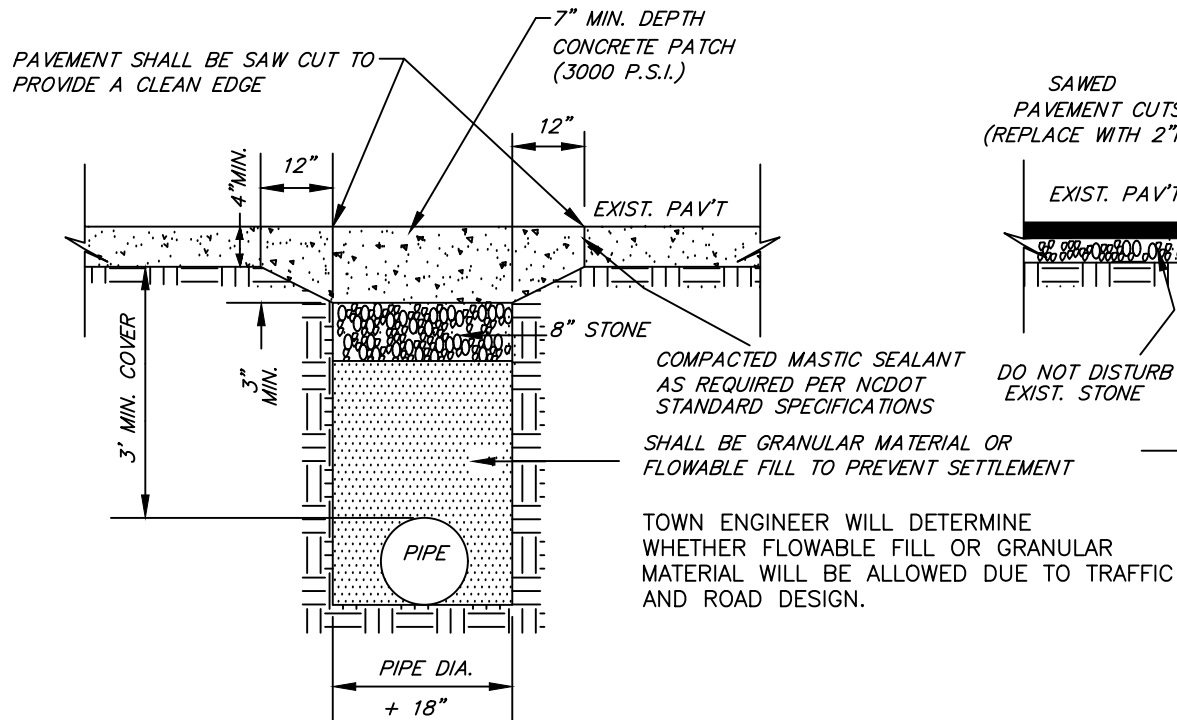
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS325

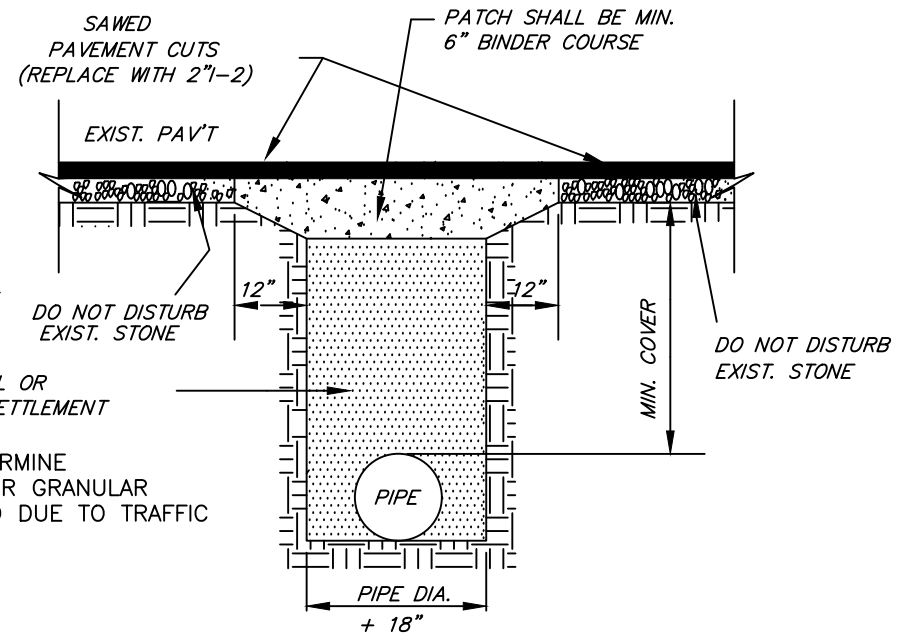
DATE REVISIONS

12/18/18





CONCRETE PAVEMENT



ASPHALT PAVEMENT

NOTE TO CONTRACTOR:

ALL PAVEMENT CUTS SHALL BE REPAIRED WITHIN A MAXIMUM OF TWO (2) DAYS FROM THE DATE THE CUT IS MADE. IF CONDITIONS DO NOT PERMIT A PERMANENT REPAIR WITHIN THE GIVEN TIME LIMIT, PERMISSION TO MAKE A TEMPORARY REPAIR MUST BE OBTAINED FROM THE DIRECTOR OF ENGINEERING. THOROUGHFARES SHALL BE REQUIRED TO BE REPAIRED ON THE SAME DAY.

DRAWING NOT TO SCALE

STANDARD TRENCH AND PAVEMENT REPAIR SECTION

STANDARD DETAIL NUMBER: **HS326**

DATE REVISIONS

2/8/10

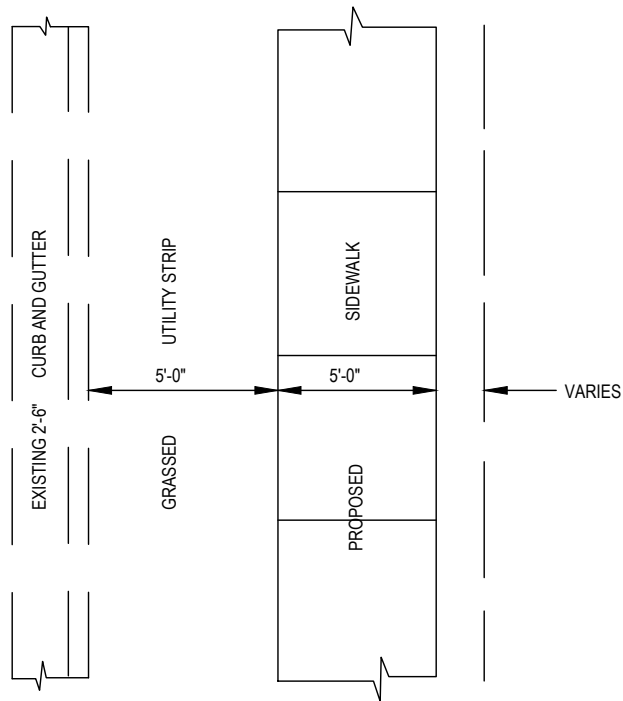
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT



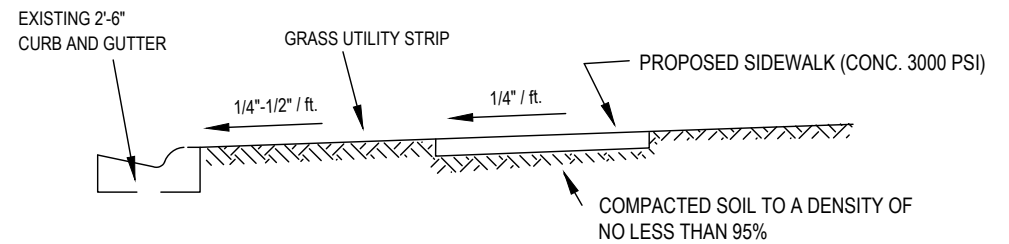
NOTES:

1. SIDEWALK SHALL BE 6" DEPTH AT ALL DRIVEWAYS.
2. SIDEWALK SHALL BE 6" DEPTH AT ALL HANDICAP RAMPS.
3. TRANSVERSE EXPANSION JOINT TO BE A MAX OF 50 FEET.

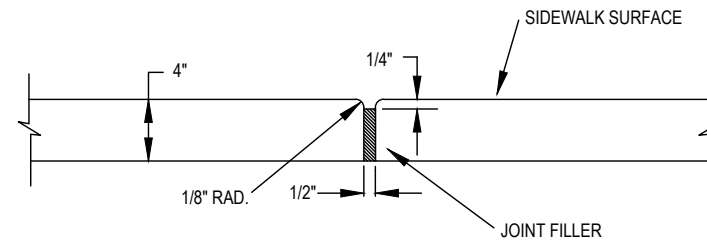
* VARIES - SEE APPROVED PROJECT PLANS



PLAN VIEW



TYPICAL SECTION



TRANSVERSE EXPANSION JOINT

DRAWING NOT TO SCALE

STANDARD CONCRETE SIDEWALK

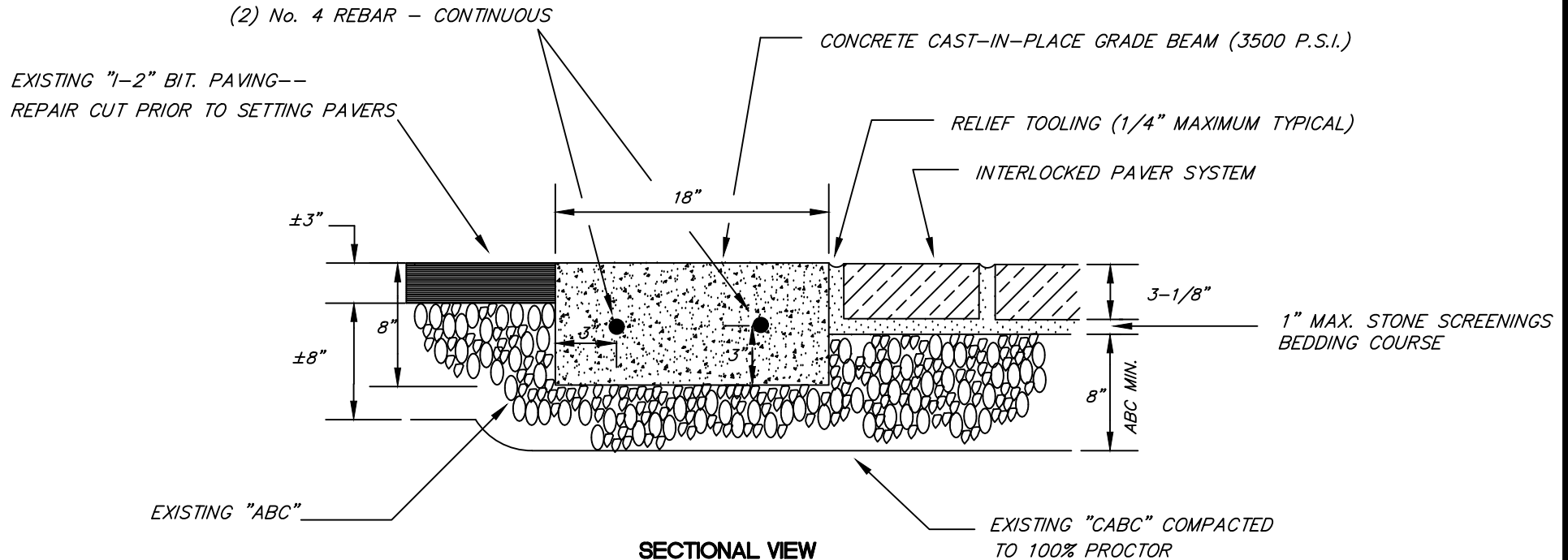
TOWN OF HOLLY SPRINGS

STANDARD DETAIL NUMBER: HS327	
DATE	REVISIONS
12/19/23	



NOTES:

1. EXISTING "CABC" IN ROADWAY MAY BE USED AS BASE COURSE AFTER COMPACTING TO ACHIEVE 100% PROCTOR. LOCALIZED UNDERCUTTING AND REPAIR SHALL BE REQUIRED WHERE PROOFROLLING RESULTS IN PUMPING OR AS DIRECTED BY THE INSPECTOR. TESTING OF SUBGRADE/"CABC" COMPACTION SHALL BE REQUIRED
2. EXISTING ROADWAY PAVING SHALL BE SAW-CUT TO RECEIVE PLACEMENT OF GRADE BEAMS. A THREE-DAY CURING PERIOD SHALL BE REQUIRED FOR GRADE BEAMS PRIOR TO REMOVAL OF REMAINING BITUMINOUS PAVING. BASE BELOW GRADE BEAMS SHALL BE COMPACTED TO 100% PROCTOR.
3. BRICK PAVED STREETS SHALL NOT BE MAINTAINED BY THE TOWN OF HOLLY SPRINGS.



DRAWING NOT TO SCALE

INTERLOCKED CONCRETE PAVER STREET SECTION

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS328

DATE REVISIONS

2/8/10



4" THICK CONCRETE CURB
SET FLUSH WITH TOP OF PAVERS
AND CONTROL JOINTS @ 15' OC

BRICK PAVER

1" TO 1 1/2"
COMPACTED BEDDING SAND

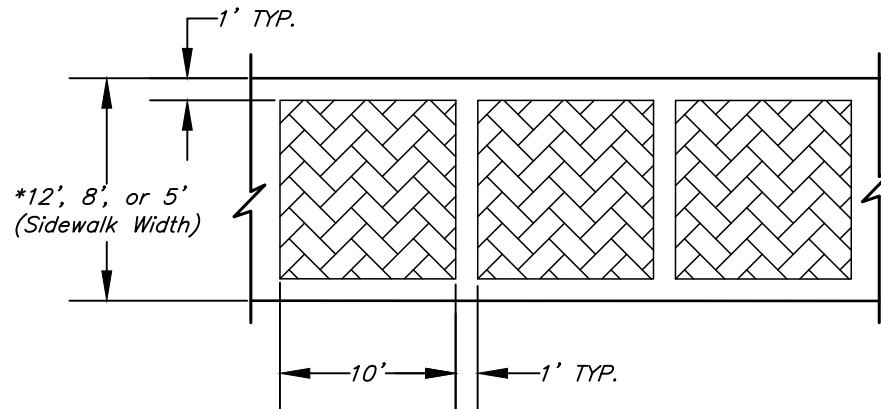
COMPACTED AGGREGATE BASE
4" MIN. THICKNESS

COMPACTED SOIL SUBGRADE

NOTES:

1. SCATTER SAND OR SCREENINGS OVER COMPLETED WORK AND SWEEP INTO CRACKS.
2. BRICK PAVERS SHOULD CONFORM TO REQUIREMENTS OF ASTM C902-95.
3. EACH STAGE OF CONSTRUCTION WILL REQUIRE INSPECTION BY TOHS INSPECTOR.
4. TOWN OF HOLLY SPRINGS PAVER STANDARD IS 2-1/4" x 4" x 8" PINEHALL PATHWAY RED/FLASH CLAY PAVER.
5. COLOR SAMPLE MUST BE APPROVED BY TOHS BEFORE INSTALLATION.
6. IN AREAS WHERE SIDEWALK WIDTH CHANGES A 2:1 RATIO MUST APPLY.

*SIDEWALK WIDTH MAY VARY.
CONCRETE BANDS MUST REMAIN 1' AND
BRICK PAVER DEPTH MUST REMAIN 10'



DRAWING NOT TO SCALE

BRICK PAVER SIDEWALK 12', 8', or 5'

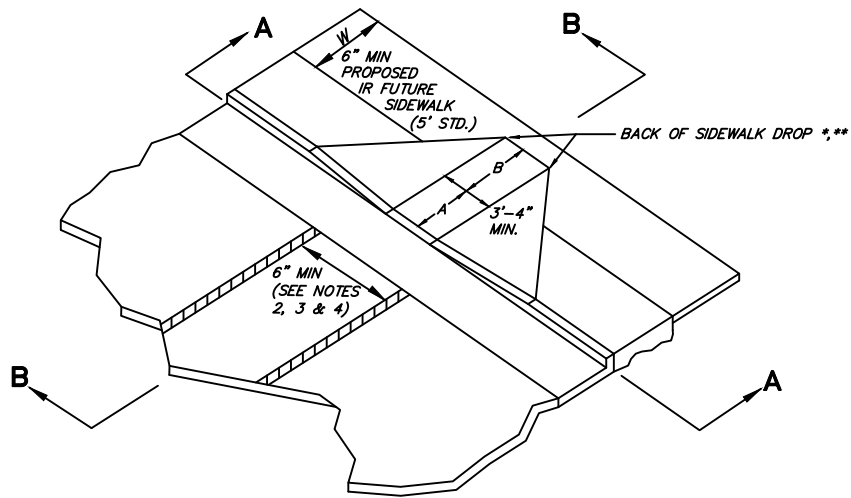
STANDARD DETAIL NUMBER: HS329

DATE REVISIONS

2/8/10

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT



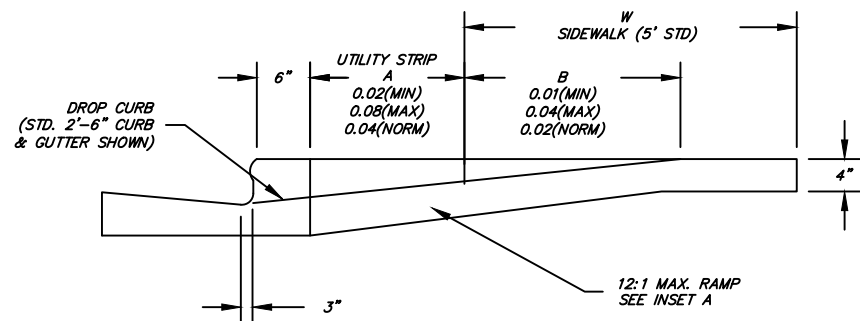


ISOMETRIC VIEW

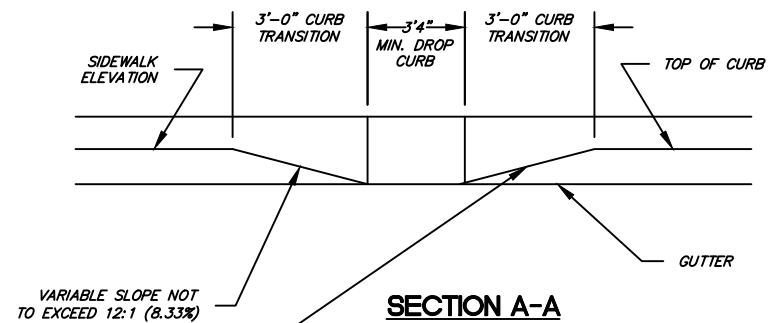
W	A	W+A+9"	X	B
5'	0.0'	5.8'	5.8'	5.0'*
6'	0.0'	6.8'	6.8'	6.0'**
7'	0.0'	7.8'	7.3'	6.5'**
8'	0.0'	8.8'	7.3'	6.5'**
5'	2.0'	7.8'	7.8'	5.0'
5'	2.5'	8.3'	8.1'	4.8'
5'	3.0'	8.8'	8.3'	4.4'
5'	3.5'	9.3'	8.4'	4.1'
5'	4.0'	9.8'	8.6'	3.8'
5'	4.5'	10.3'	8.7'	3.4'
5'	5.0'	10.8'	8.9'	3.1'

B = X-(A+9)
 B = DISTANCE FROM FRONT EDGE OF SIDEWALK TO BACK POINT OF 12:1 (8.33%) SLOPE
 * BACK OF SIDEWALK DROP REQUIRED FOR ALL SIDEWALK SLOPES
 ** BACK OF SIDEWALK DROP REQUIRED FOR SIDEWALK SLOPES 0.04

- NOTES:
1. THE WALKING SURFACE SHALL BE SLOPE RESISTANT. DETECTABLE WARNING DOMES SHALL COVER THE FULL WIDTH AND DEPTH OF THE RAMP FLOOR. THE DETECTABLE WARNING SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9". A HEIGHT OF 0.2" AND CENTER-TO-CENTER SPACING OF NOMINAL 2.35". THE RAMP SHALL BE BLACK IN COLOR.
 2. CROSSWALK WIDTHS AND CONFIGURATION VARY: MUST CONFORM TO TRAFFIC DESIGN STANDARDS.
 3. THE INSIDE PEDESTRIAN CROSSWALK LINES SHALL BE SET NO CLOSER IN THE INTERSECTION THAN WOULD BE ESTABLISHED BY BISECTING THE INTERSECTION RADII. (SEE NOTE 14)
 4. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION AND THE NORTH CAROLINA SUPPLEMENT TO THE MUTCD.

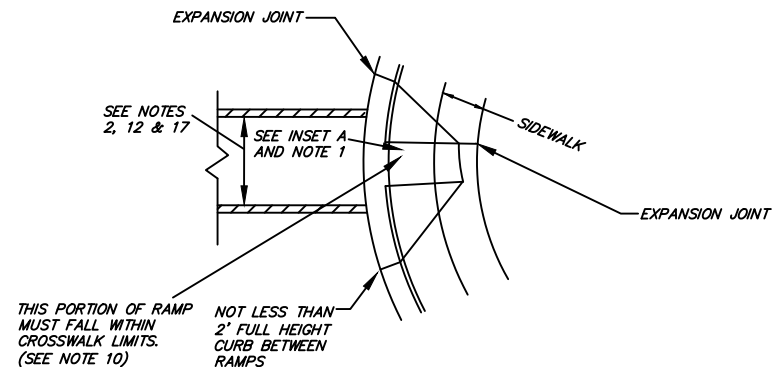


SECTION B-B



SECTION A-A

NOTE: A PORTION OF ONE OR BOTH RAMPS MAY EXTEND OUTSIDE THE RETURN.



PLAN VIEW

DRAWING NOT TO SCALE

SINGLE RAMP RESIDENTIAL FOR MINOR SUBDIVISION ROADS

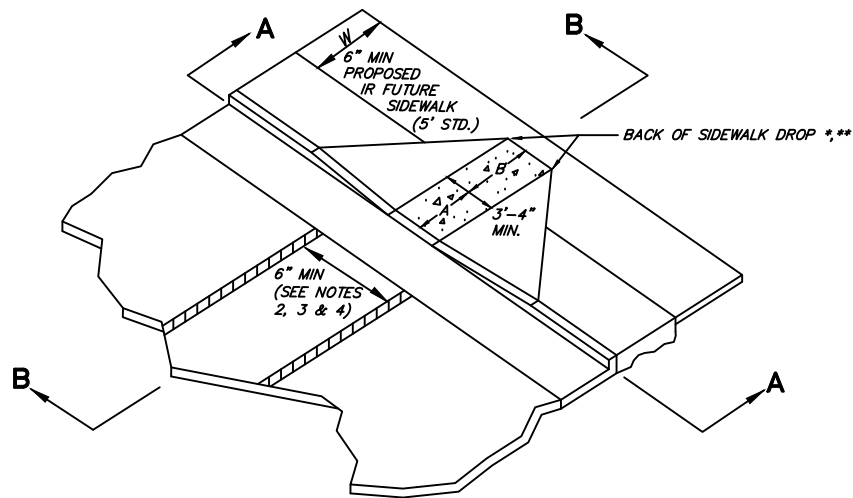
STANDARD DETAIL NUMBER: **HS330**

DATE REVISIONS

2/8/10

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT



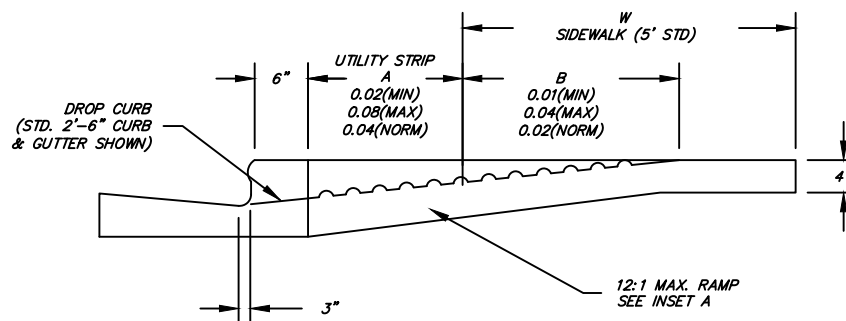
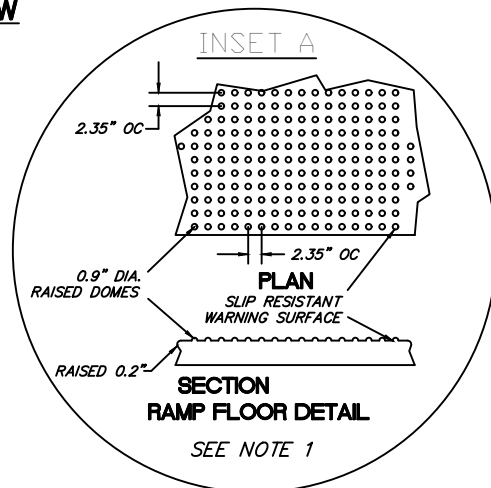


ISOMETRIC VIEW

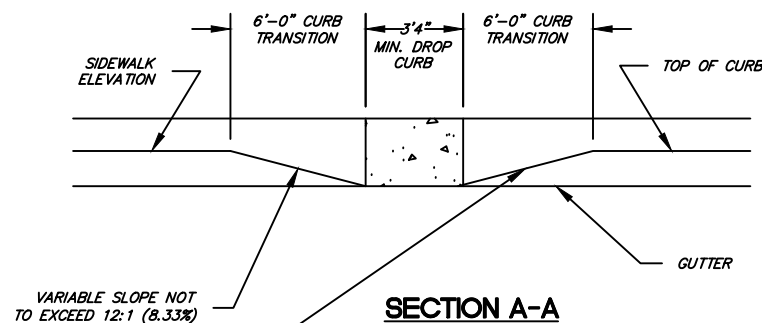
W	A	W+A+9"	X	B
5'	0.0'	5.8'	5.8'	5.0'*
6'	0.0'	6.8'	6.8'	6.0'**
7'	0.0'	7.8'	7.3'	6.5'**
8'	0.0'	8.8'	7.3'	6.5'**
5'	2.0'	7.8'	7.8'	5.0'
5'	2.5'	8.3'	8.1'	4.8'
5'	3.0'	8.8'	8.3'	4.4'
5'	3.5'	9.3'	8.4'	4.1'
5'	4.0'	9.8'	8.6'	3.8'
5'	4.5'	10.3'	8.7'	3.4'
5'	5.0'	10.8'	8.9'	3.1'

- B = X-(A+9)
 B = DISTANCE FROM FRONT EDGE OF SIDEWALK
 TO BACK POINT OF 12:1 (8.33%) SLOPE
 * BACK OF SIDEWALK DROP REQUIRED FOR ALL
 SIDEWALK SLOPES
 ** BACK OF SIDEWALK DROP REQUIRED FOR SIDEWALK
 SLOPES 0.04

- NOTES:
 1. THE WALKING SURFACE SHALL BE SLOPE RESISTANT. DETECTABLE WARNING DOMES SHALL COVER THE FULL WIDTH AND DEPTH OF THE RAMP FLOOR. THE DETECTABLE WARNING SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9". A HEIGHT OF 0.2" AND CENTER-TO-CENTER SPACING OF NOMINAL 2.35". THE RAMP SHALL BE BLACK IN COLOR.
 2. CROSSWALK WIDTHS AND CONFIGURATION VARY: MUST CONFORM TO TRAFFIC DESIGN STANDARDS.
 3. THE INSIDE PEDESTRIAN CROSSWALK LINES SHALL BE SET NO CLOSER IN THE INTERSECTION THAN WOULD BE ESTABLISHED BY BISECTING THE INTERSECTION RADII. (SEE NOTE 14)
 4. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION AND THE NORTH CAROLINA SUPPLEMENT TO THE MUTCD.

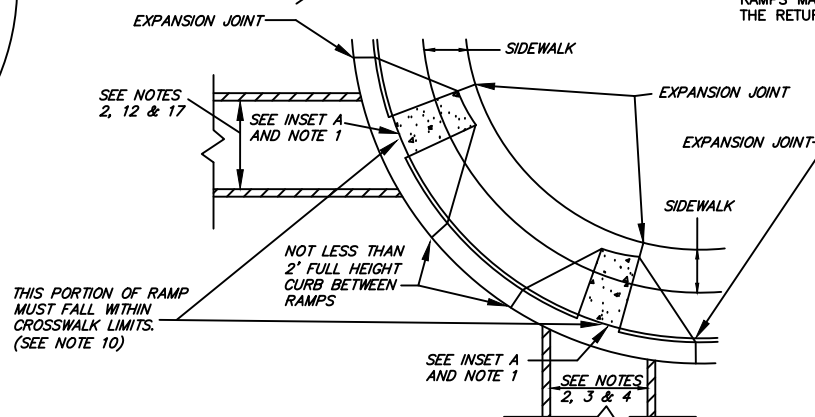


SECTION B-B



SECTION A-A

NOTE: A PORTION OF ONE OR BOTH
 RAMPS MAY EXTEND OUTSIDE
 THE RETURN.



PLAN VIEW

DRAWING NOT TO SCALE

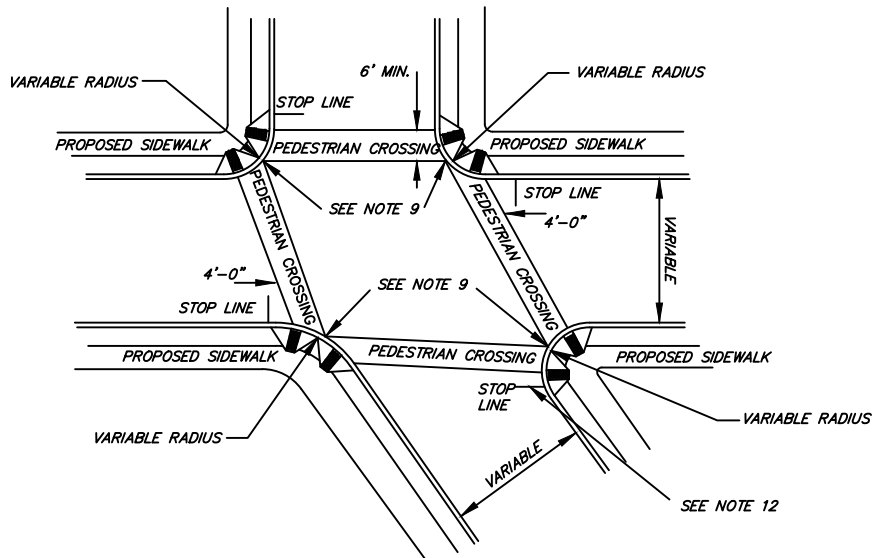
STANDARD WHEELCHAIR RAMP

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

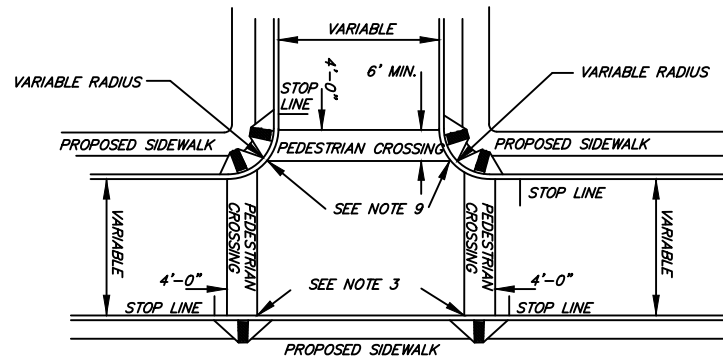
STANDARD DETAIL NUMBER: HS331

DATE REVISIONS
 2/8/10





DETAIL SHOWING TYPICAL LOCATION OF WHEELCHAIR RAMPS, PEDESTRIAN CROSSWALKS AND STOP BARS



DETAIL SHOWING TYPICAL LOCATION OF WHEELCHAIR RAMPS, PEDESTRIAN CROSSWALKS AND STOP BARS FOR TEE INTERSECTION

NOTES:

1. THE WALKING SURFACE SHALL BE SLOPE RESISTANT. DETECTABLE WARNING DOMES SHALL COVER THE FULL WIDTH AND DEPTH OF THE RAMP FLOOR. THE DETECTABLE WARNING SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9". A HEIGHT OF 0.2" AND CENTER-TO-CENTER SPACING OF NOMINAL 2.35". THE RAMP SHALL BE BLACK IN COLOR.
2. CROSSWALK WIDTHS AND CONFIGURATION VARY: MUST CONFORM TO TRAFFIC DESIGN STANDARDS.
3. NORTH CAROLINA GENERAL STATUTE 136-44 44 REQUIRES THAT ALL STREET CURBS BEING CONSTRUCTED OR RECONSTRUCTED FOR MAINTENANCE PROCEDURES, TRAFFIC OPERATIONS REPAIRS, CORRECTION OF UTILITIES OR ALTERED FOR ANY REASON AFTER SEPTEMBER 1, 1973 SHALL PROVIDE WHEEL CHAIR RAMPS FOR THE PHYSICALLY HANDICAPPED AT ALL INTERSECTIONS WHERE BOTH CURB AND GUTTER AND SIDEWALKS ARE PROVIDED AND AT OTHER POINTS OF PEDESTRIAN FLOW. IN ADDITION SECTION 228 OF THE 1973 FEDERAL AND HIGHWAY SAFETY ACT REQUIRES PROVISION OF CURB RAMPS ON ANY CURB CONSTRUCTION AFTER JULY 1, 1976 WHETHER A SIDEWALK IS PROPOSED INITIALLY OR IS PLANNED FOR FUTURE DATE. THE AMERICANS WITH DISABILITY ACT (ADA) OF 1990 EXTENDS TO INDIVIDUALS WITH DISABILITIES, COMPREHENSIVE CIVIL RIGHTS PROTECTIONS SIMILAR TO THOSE PROVIDED TO PERSONS ON THE BASIS OF RACE, SEX, NATIONAL ORIGIN AND RELIGION UNDER THE CIVIL RIGHTS ACT OF 1964. THESE CURB RAMPS HAVE BEEN DESIGNED TO COMPLY WITH TITLE 111 OF THE ADA, BECOMING EFFECTIVE ON JANUARY 26, 1992.
4. WHEELCHAIR RAMPS SHALL BE PROVIDED AT LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. WHEELCHAIR RAMPS SHALL BE LOCATED AS INDICATED IN THESE DETAILS. HOWEVER, THE LOCATION MAY BE ADJUSTED BY THE ENGINEER WHERE EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS ETC. AFFECT PLACEMENT. AT ALL LOCATIONS, NOT LESS THAN 2 FEET OF FULL HEIGHT CURB SHALL BE PLACED BETWEEN THE RAMPS.
5. NO SLOPE ON THE WHEELCHAIR RAMP SHALL EXCEED 1"/1' (12:1) IN RELATIONSHIP TO THE GRADE OF THE STREET.
6. IN NO CASE SHALL THE WIDTH OF THE WHEELCHAIR RAMP BE LESS THAN 40" (3'-4"). HOWEVER, WIDTH MAY EXCEED 40".
7. USE CLASS "B" CONCRETE WITH A SIDEWALK FINISH IN ORDER TO OBTAIN A ROUGH NON-SKID TYPE SURFACE.
8. A 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE CONCRETE WHEELCHAIR RAMP JOINS THE CURB.
9. THE INSIDE PEDESTRIAN CROSSWALK LINES SHALL BE SET NO CLOSER IN THE INTERSECTION THAN WOULD BE ESTABLISHED BY BISECTING THE INTERSECTION RADII. (SEE NOTE 14)
10. THE CURB CUT AND THE PEDESTRIAN CROSSWALK LINES SHALL BE COORDINATED SO THAT THE BEGINNING OF THE WHEELCHAIR RAMP WILL FALL WITHIN THE PEDESTRIAN CROSSWALK LINES.
11. THE MINIMUM WIDTH OF THE PEDESTRIAN CROSSWALK SHALL BE 6 FEET. A CROSSWALK WIDTH OF 10' OR GREATER IS DESIRABLE.
12. STOP LINES, NORMALLY PERPENDICULAR TO THE LANE LINES, SHALL BE USED WHERE IT IS IMPORTANT TO INDICATE THE POINT BEHIND WHICH VEHICLES ARE REQUIRED TO STOP IN COMPLIANCE WITH A TRAFFIC SIGNAL STOP SIGN OR OTHER LEGAL REQUIREMENT. AN UNUSUAL APPROACH SKEW MAY REQUIRE THE PLACEMENT OF THE STOP LINE TO BE PARALLEL TO THE INTERSECTING ROADWAY.
13. PARKING SHALL BE ELIMINATED A MINIMUM OF 20 FEET BACK OF PEDESTRIAN CROSSWALK.
14. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION AND THE NORTH CAROLINA SUPPLEMENT TO THE MUTCD.

DRAWING NOT TO SCALE

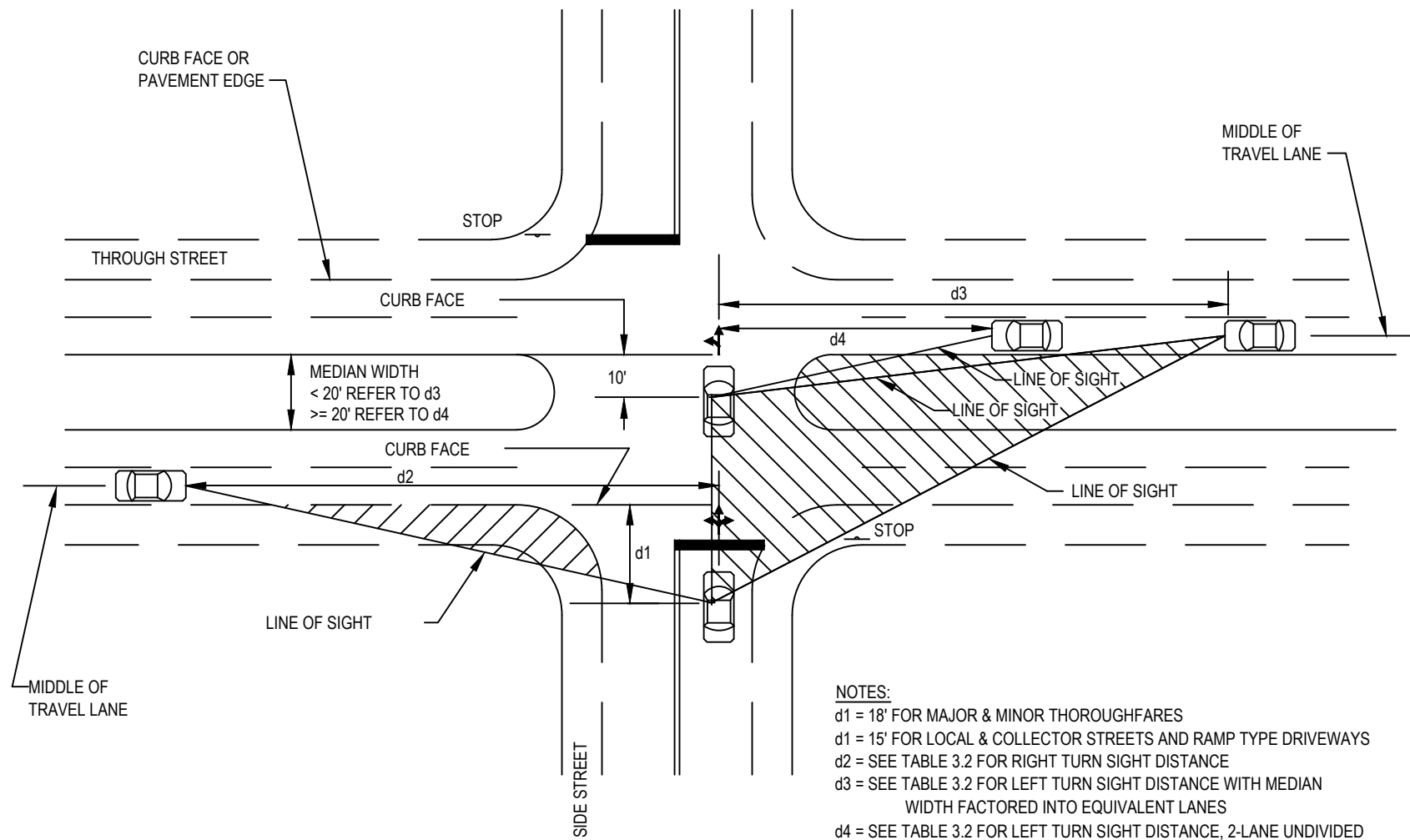
STANDARD WHEELCHAIR RAMP

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS332

DATE	REVISIONS
2/8/10	





DRAWING NOT TO SCALE

INTERSECTION SIGHT DISTANCE STOP SIGN CONTROL MULTI-LANE ROADWAY

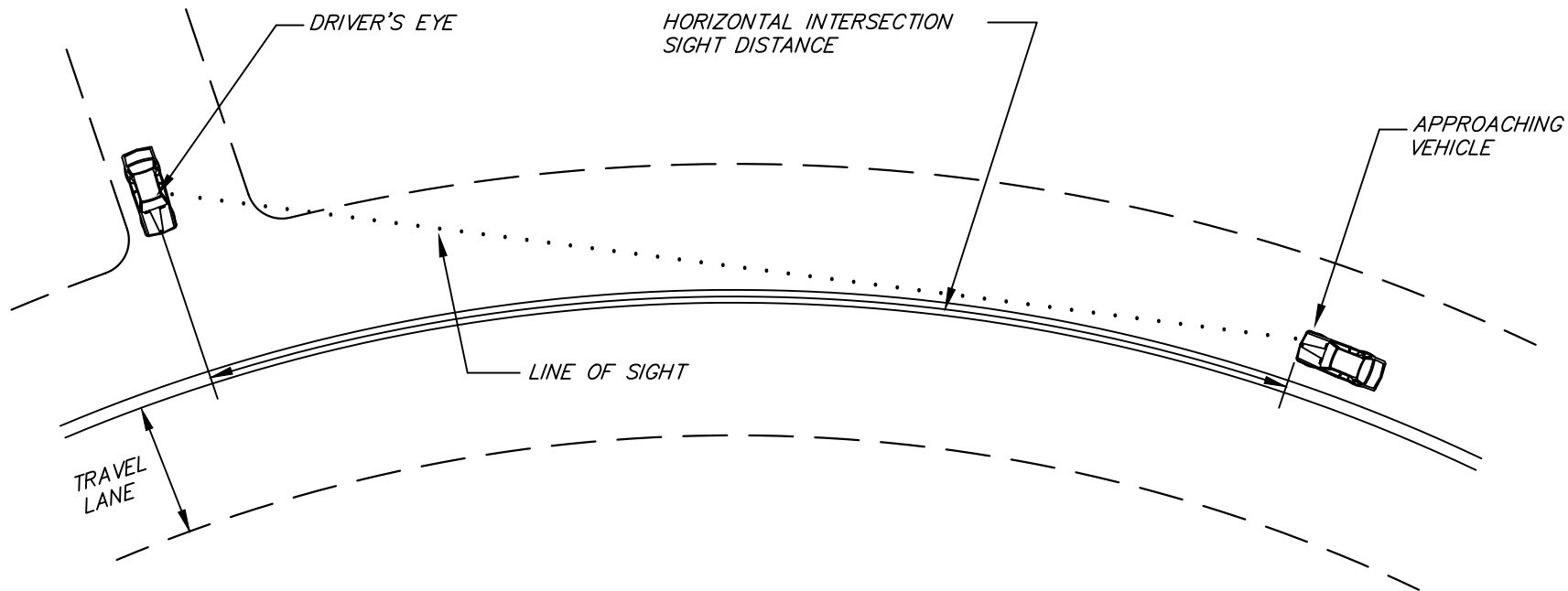
STANDARD DETAIL NUMBER: HS333

DATE REVISIONS

12/7/21
11/19/24

TOWN OF HOLLY SPRINGS





DRAWING NOT TO SCALE

MEASUREMENT OF HORIZONTAL INTERSECTION SIGHT DISTANCE

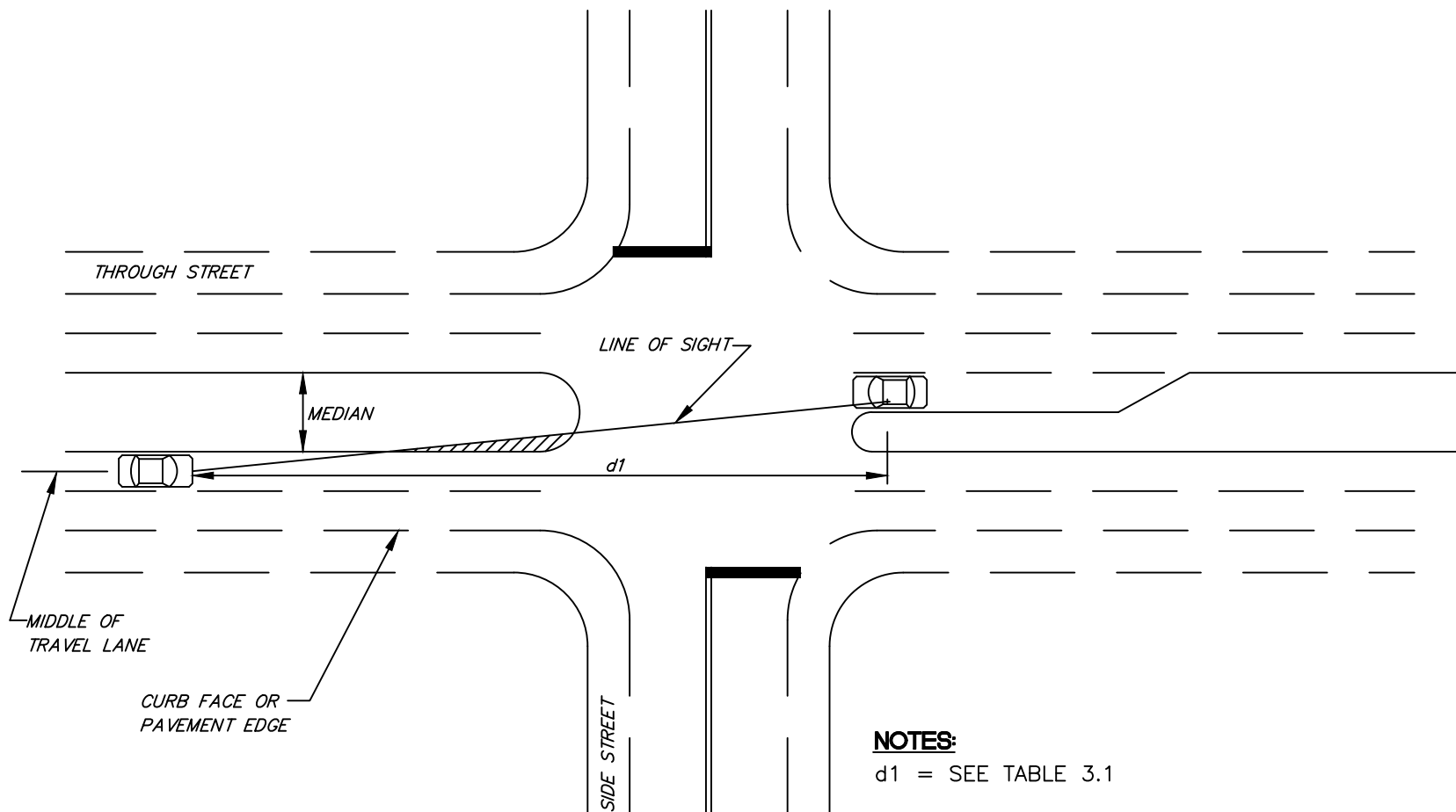
STANDARD DETAIL NUMBER: **HS334**

DATE
8/30/19

REVISIONS

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT





DRAWING NOT TO SCALE

SIGHT DISTANCE LEFT TURN FROM THROUGH STREET

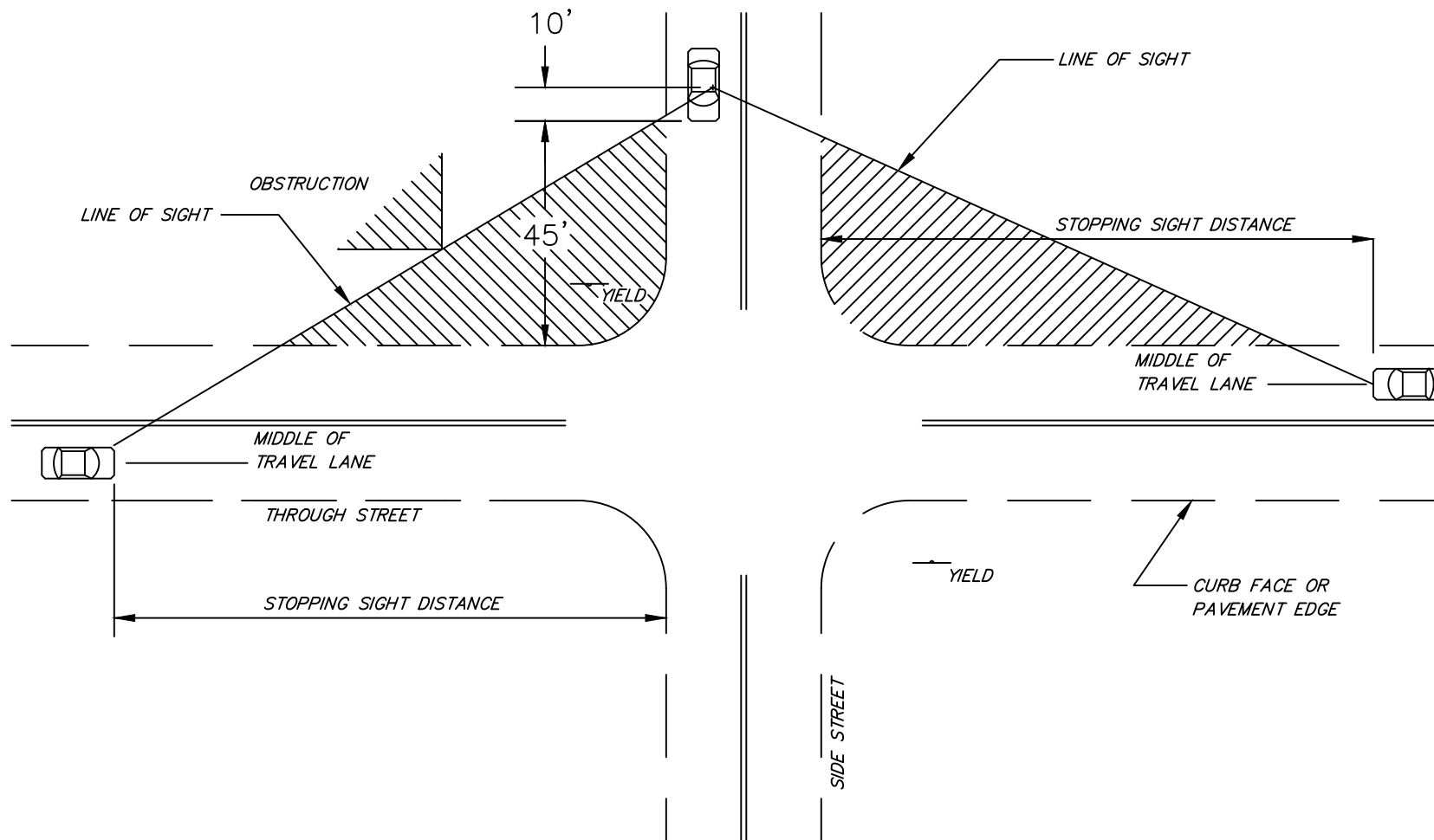
STANDARD DETAIL NUMBER: **H8335**

DATE
8/30/19

REVISIONS

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT





FOR LINE OF SIGHT DISTANCE REFER TO TABLE 3.1

DRAWING NOT TO SCALE

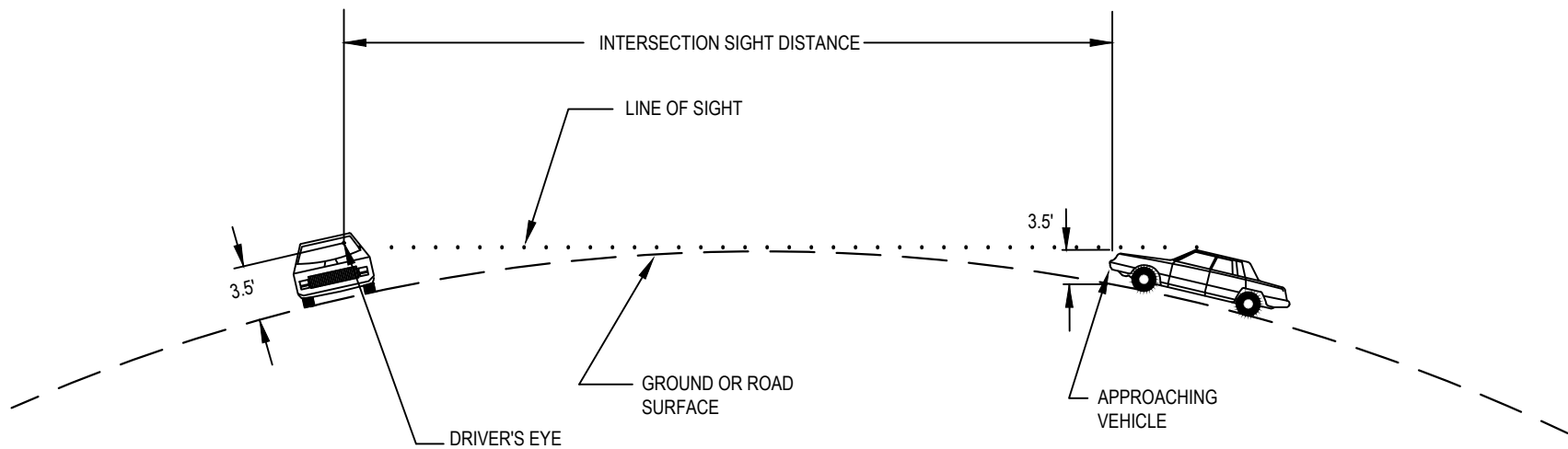
SIGHT DISTANCE YIELD SIGN CONTROLLED INTERSECTIONS

STANDARD DETAIL NUMBER: **HS336**

DATE REVISIONS

8/30/19

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT



DRAWING NOT TO SCALE

MEASUREMENT OF VERTICAL INTERSECTION SIGHT DISTANCE

TOWN OF HOLLY SPRINGS

STANDARD DETAIL NUMBER: HS337

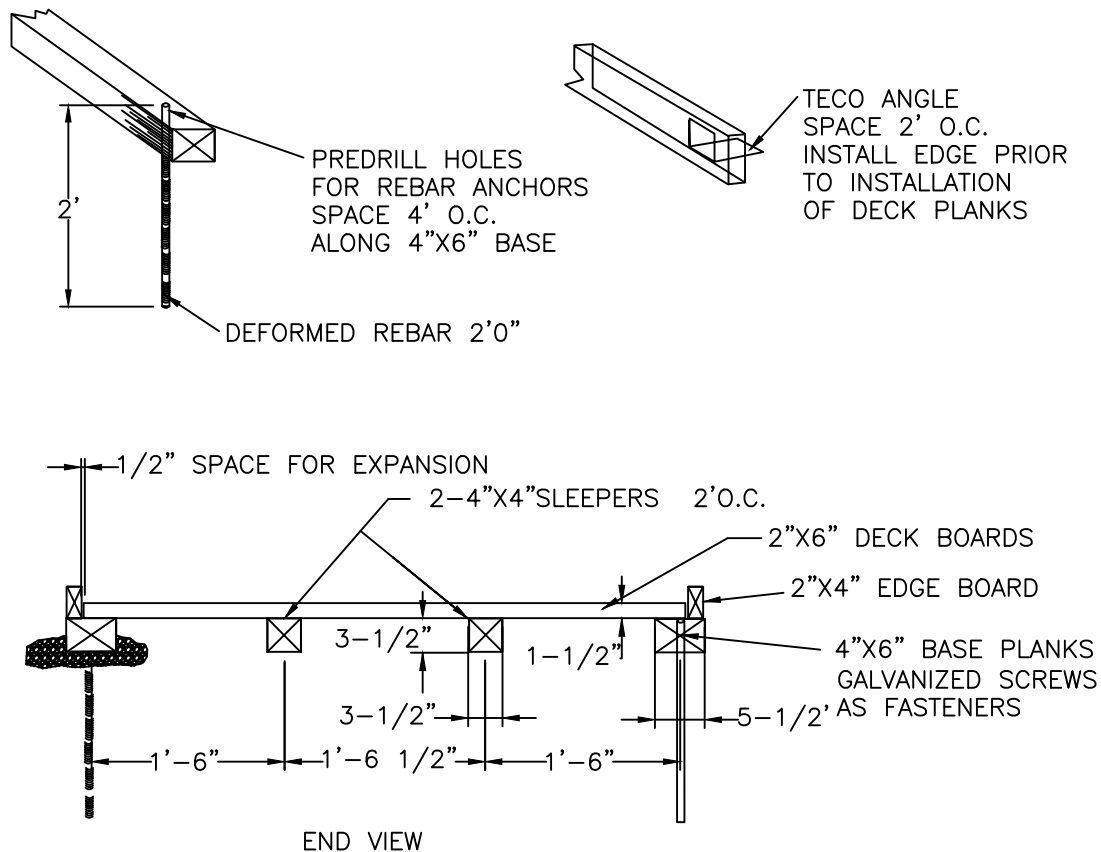
DATE

REVISIONS

8/30/19

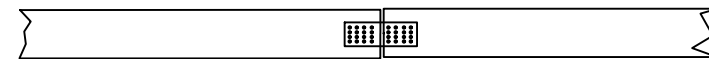
11/19/24





NOTES:

1. STAGGER JOINTS ON ALL LINEAR MEMBERS
2. USE GRAVEL FILL TO LEVEL THE BASE MEMBERS WHERE NEEDED
3. USE GALVANIZED SCREW FASTENERS
4. USE TECO PLATES AT JOINTS AND FOR FASTENING EDGING
5. PREDRILL HOLES FOR ANCHORING DECK BOARDS
6. ALL LUMBER TO BE PRESSURE TREATED WITH 4X STOCK RATED FOR GROUND CONTACT



TECO PLATE TO HOLD 4x4 AND 4x6 UNITS TOGETHER

SIDE VIEW

DRAWING NOT TO SCALE

5FT BOARDWALK DETAIL FOR SIDEWALK

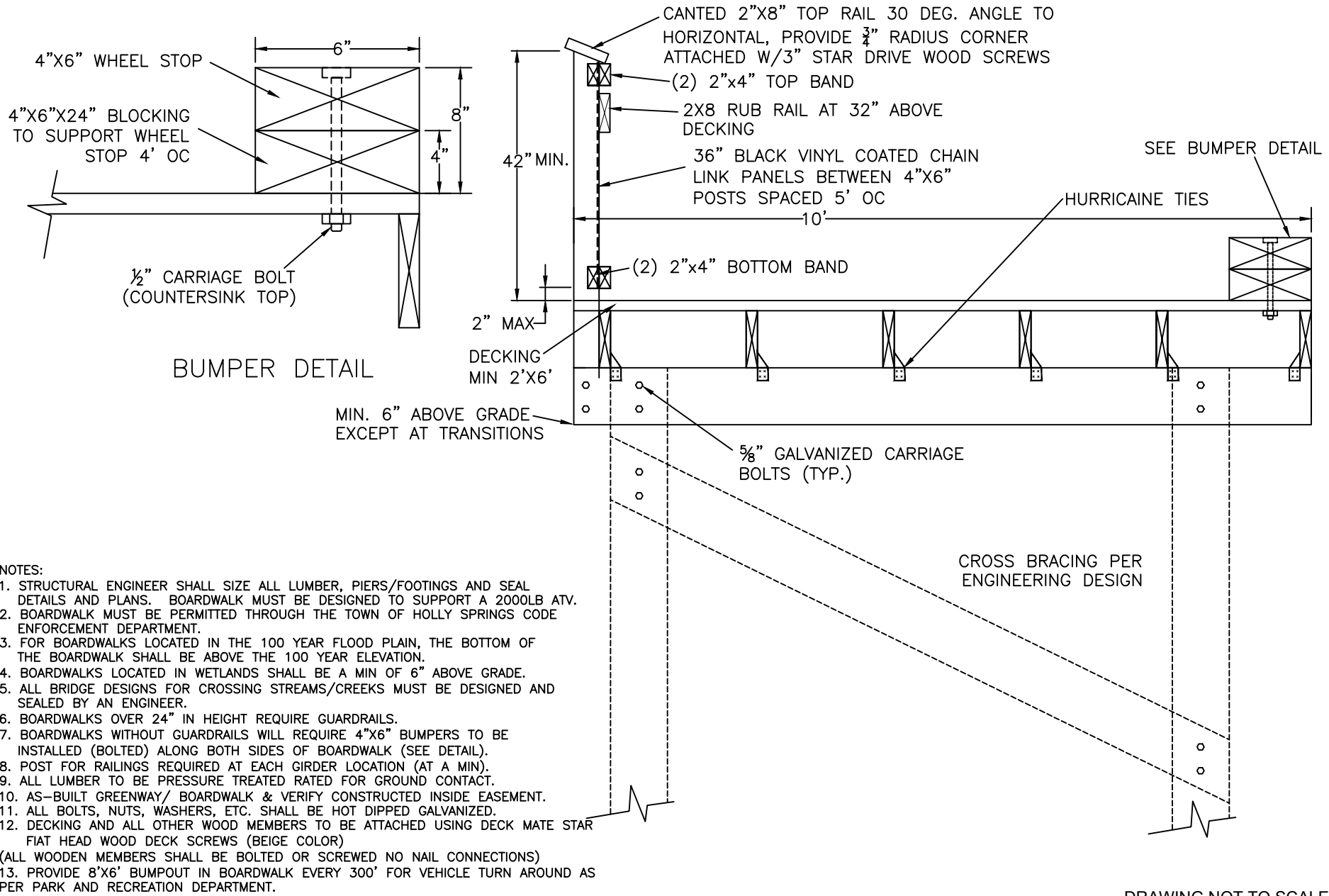
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS338

DATE REVISIONS

2/8/10





DRAWING NOT TO SCALE

10FT RAISED BOARDWALK/ GREENWAY TRAIL

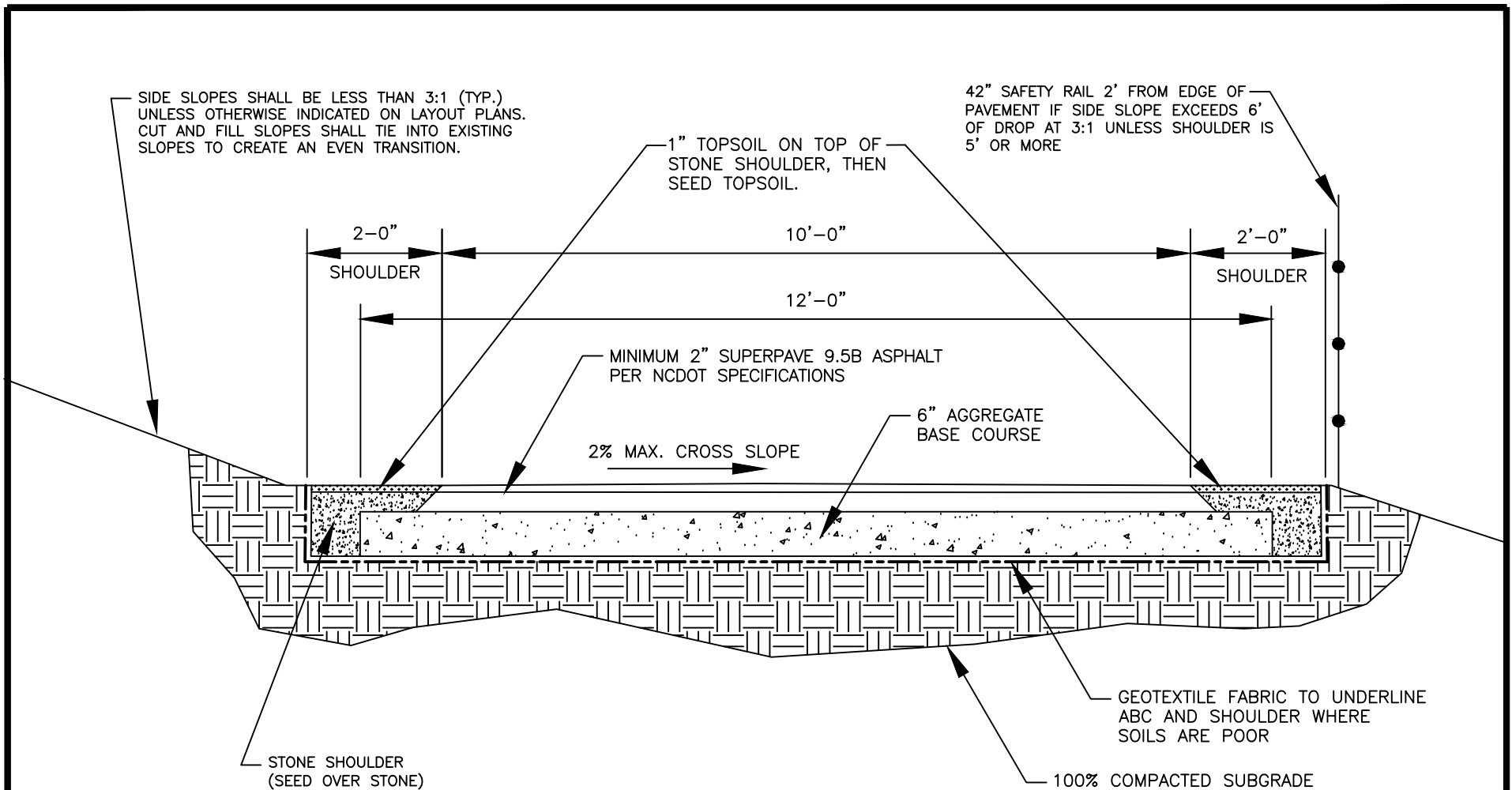
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS339

DATE
3/17/21

REVISIONS





NOTES:

1. CROSS SLOPE DIRECTION VARIES. SEE LAYOUT PLANS FOR DIRECTION OF SLOPE.
2. CONTRACTOR IS RESPONSIBLE FOR RE-ESTABLISHING ALL SLOPES DISTURBED BY CONSTRUCTION.
3. CONCENTRATED FLOW MUST CROSS THE GREENWAY IN AN APPROVED STORM DRAIN

DRAWING NOT TO SCALE

10' ASPHALT GREENWAY TRAIL

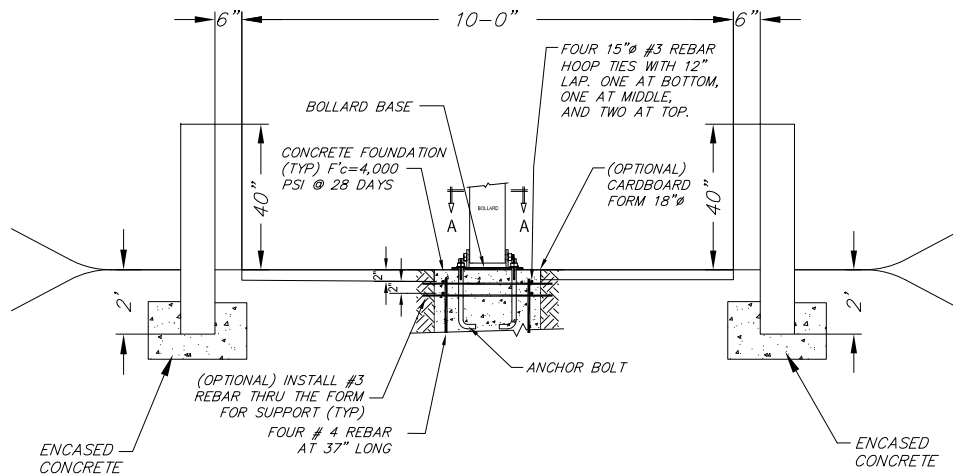
TOWN OF HOLLY SPRINGS

STANDARD DETAIL NUMBER: **HS340**

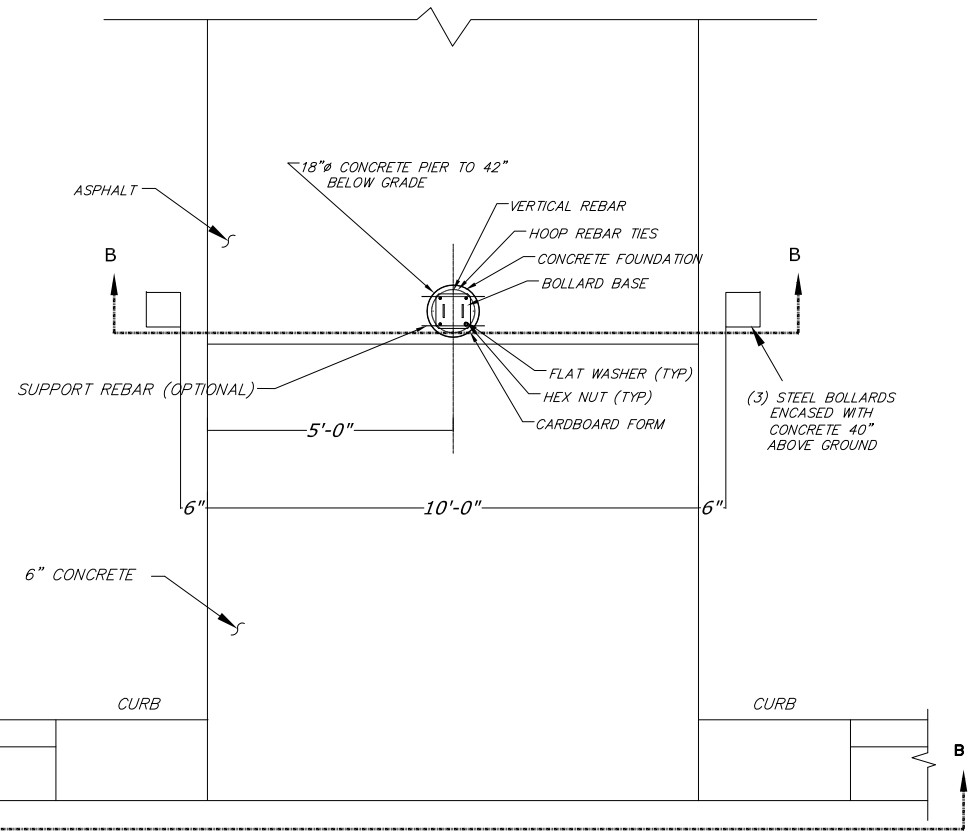
DATE REVISIONS

10/7/25

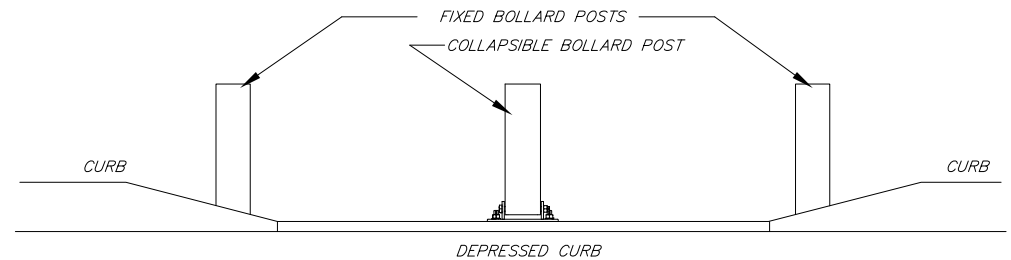




**FRONT ELEVATION
SECTION**



PLAN SECTION 'A-A'



VIEW B-B

NOTE:

1. BOLLARD CAN BE ROUND, SQUARE OR RECTANGULAR.
2. CENTER COLLAPSIBLE BOLLARD TO BE TRAFFICGUARD® – MODEL LPHDHB OR SIMILAR.
3. INSTALLATION SHALL BE COMPLETED IN ACCORDANCE WITH CHOSEN MANUFACTURER'S SPECIFICATIONS.
4. CENTER BOLLARD POST TO COLLAPSE TO A MIN OF 5".
5. CENTER BOLLARD POST MUST HAVE A STAINLESS STEEL LOCK PIN & PADLOCK.

DRAWING NOT TO SCALE

COLLAPSIBLE AND FIXED BOLLARD POST DETAIL

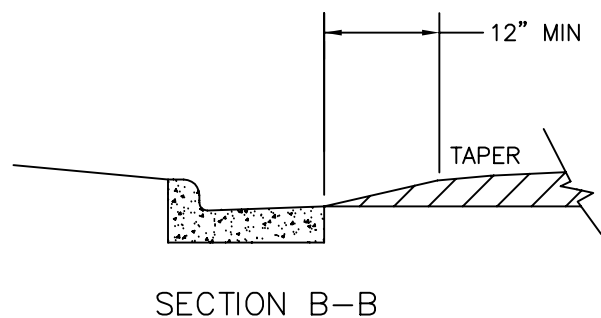
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS341

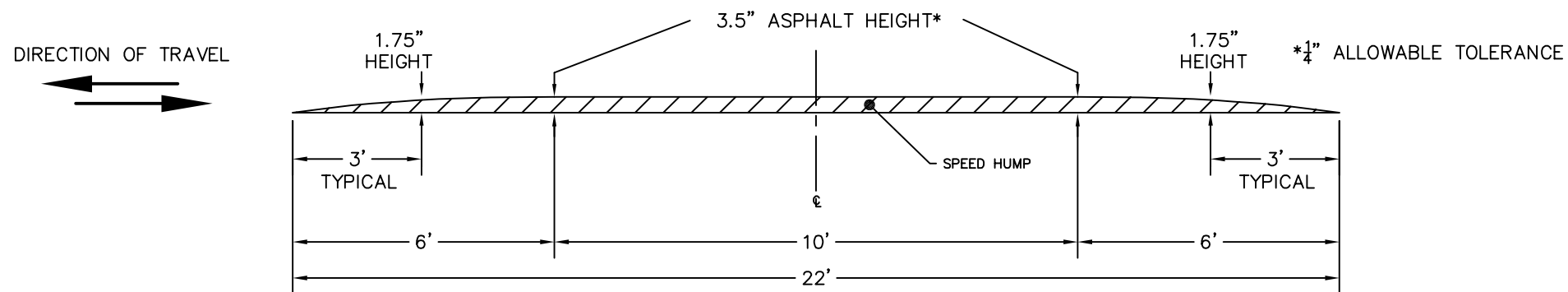
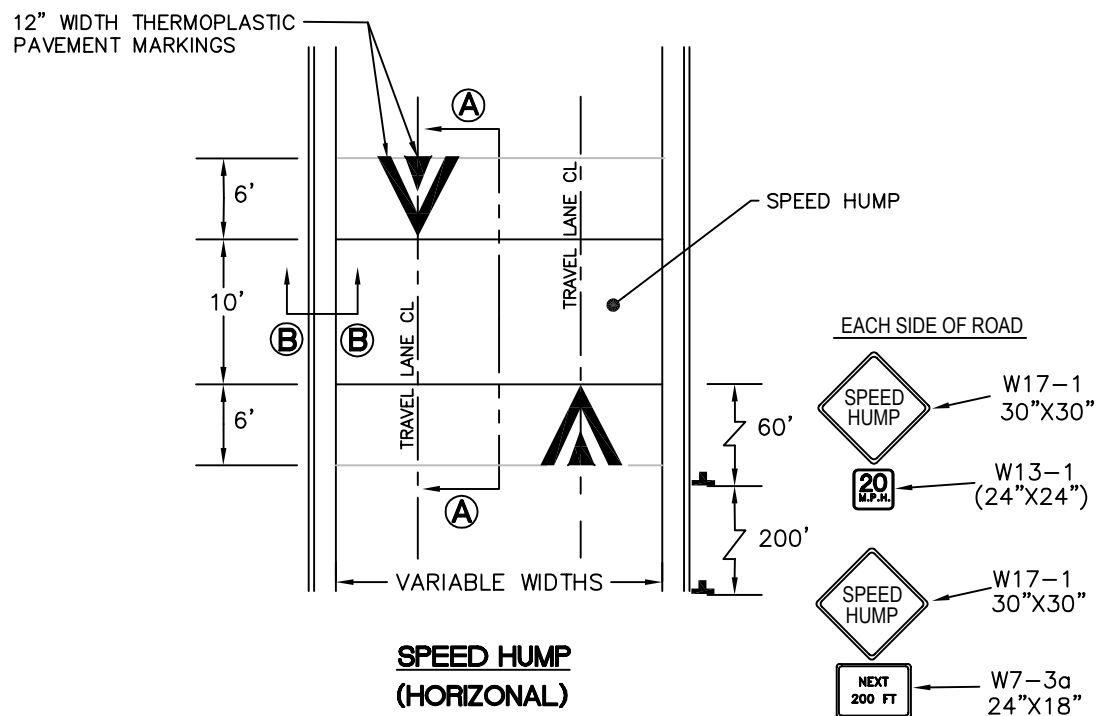
DATE REVISIONS

6/1/20





THE IMPLEMENTATION OF NEW SPEED HUMPS IS PROHIBITED BY THE CURRENT TOHS STANDARDS. THIS DETAIL IS FOR REPAIR AND REPLACEMENT PURPOSES ONLY.



SECTION A-A

DRAWING NOT TO SCALE

22' PAVEMENT SPEED HUMP

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: **HS342**

DATE	REVISIONS
10/17/18	
6/27/23	REPAIR AND REPLACEMENT NOTE ADDED



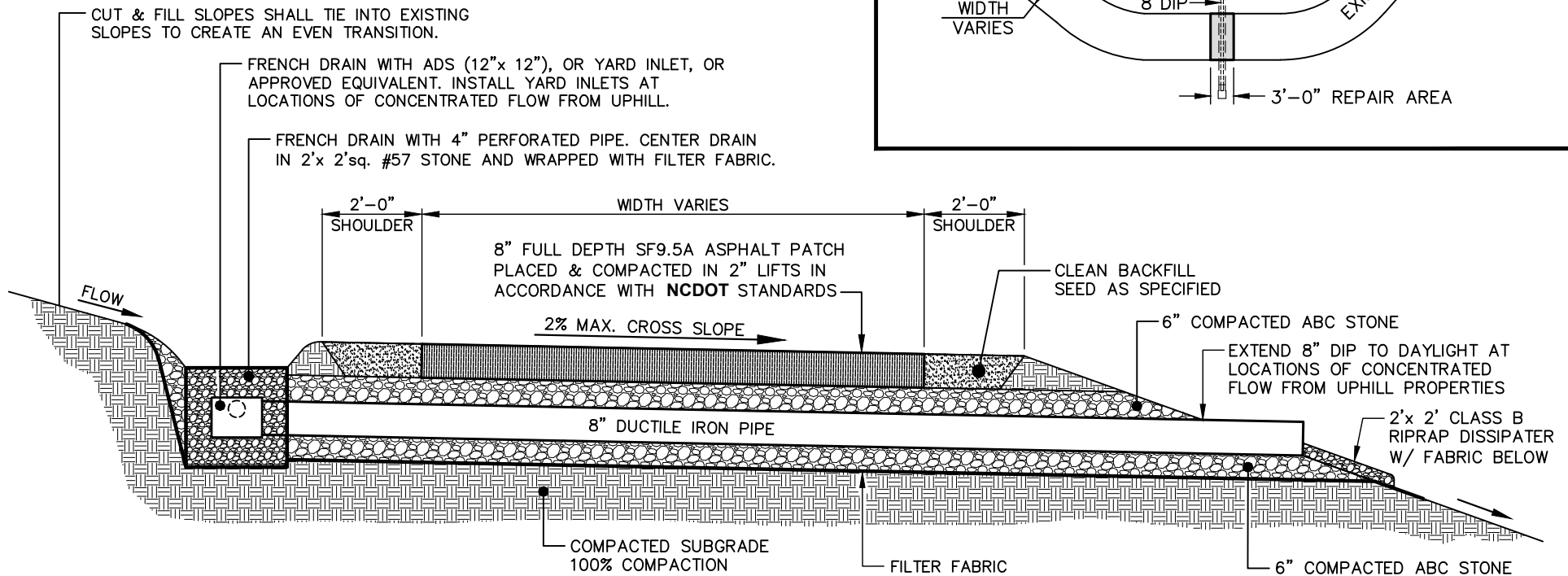
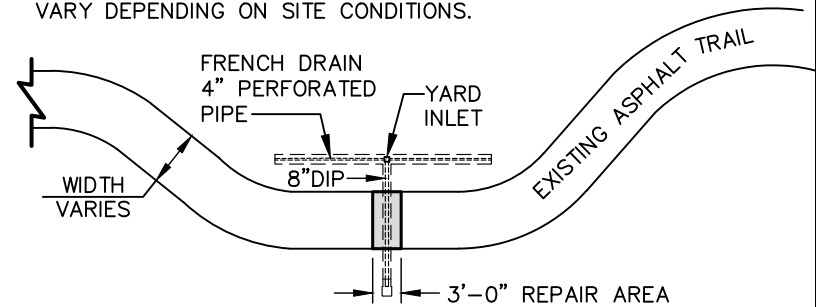
NOTES:

1. CROSS SLOPE DIRECTION VARIES. SEE GRADING PLANS FOR DIRECTION OF SLOPE.
2. SHOULDERS TO MATCH CROSS SLOPE OF GREENWAY TRAIL.
3. CONTRACTOR IS RESPONSIBLE FOR RE-ESTABLISHING ALL SLOPES DISTURBED BY CONSTRUCTION.
4. CONTRACTOR IS TO ENSURE POSITIVE DRAINAGE UNDER TRAIL REPAIR.

REPAIR AREA PLAN VIEW

NOTES:

1. SAW CUT & REMOVE 3 FEET OF ASPHALT ALONG FULL WIDTH OF TRAIL.
2. INSTALL 8 INCH DUCTILE IRON PIPE PER DETAIL BELOW.
3. LENGTH OF FRENCH DRAIN ON UPHILL SIDE OF TRAIL SHALL VARY DEPENDING ON SITE CONDITIONS.



SECTION VIEW

DRAWING NOT TO SCALE

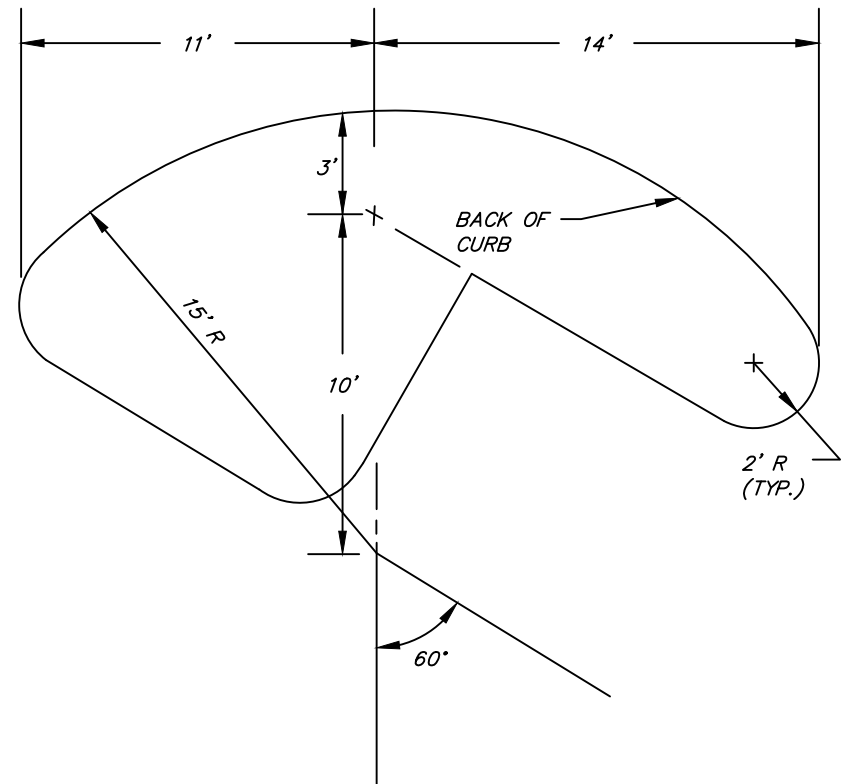
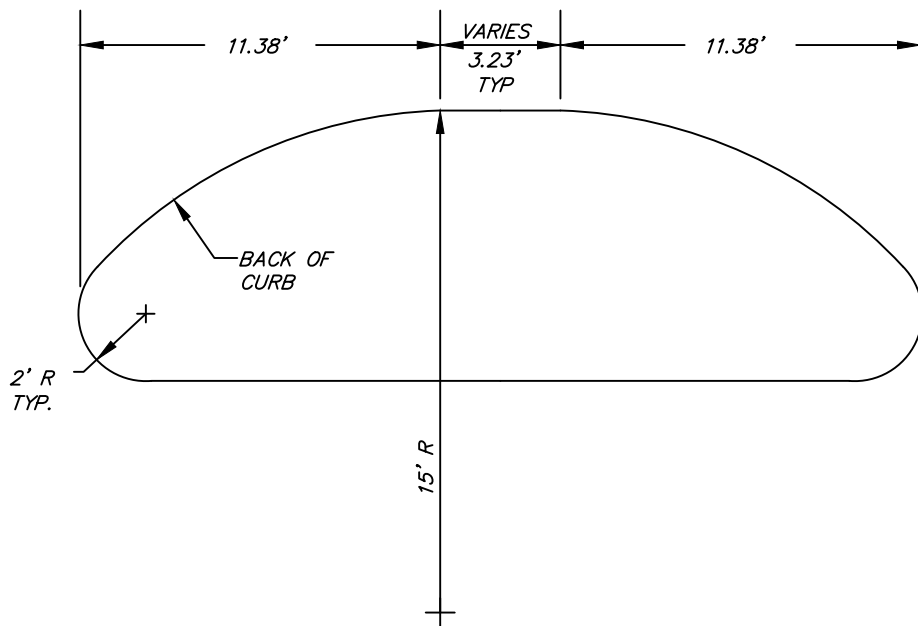
FRENCH DRAIN UNDER ASPHALT TRAIL

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS343

12/3/21 REVISIONS





DRAWING NOT TO SCALE

END ISLANDS FOR PARKING LOTS

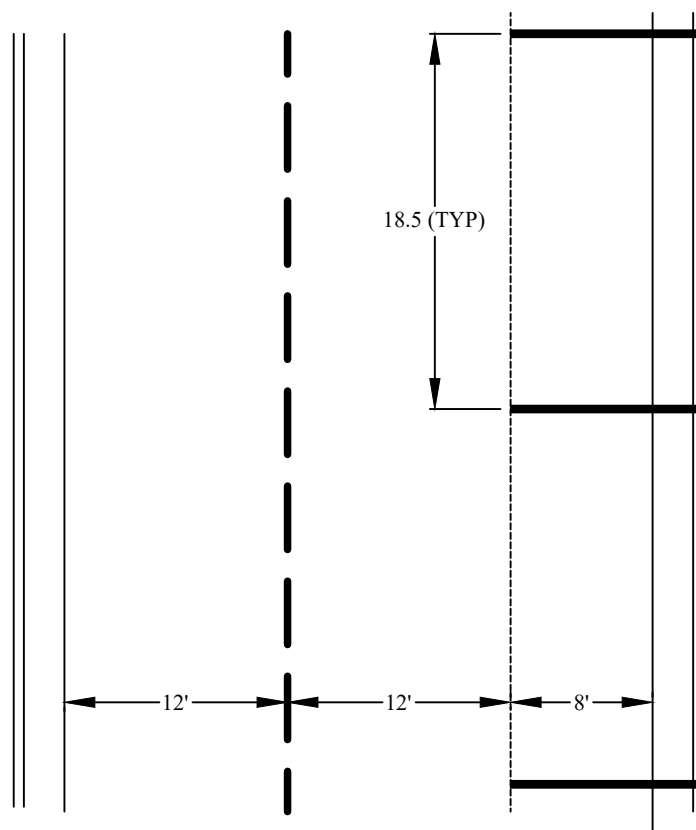
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS344

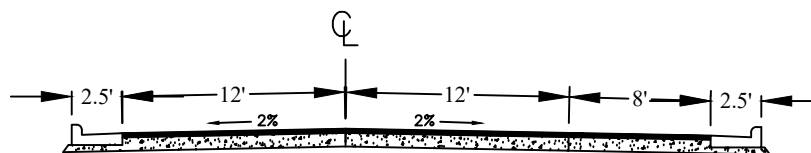
DATE
8/30/19

REVISIONS



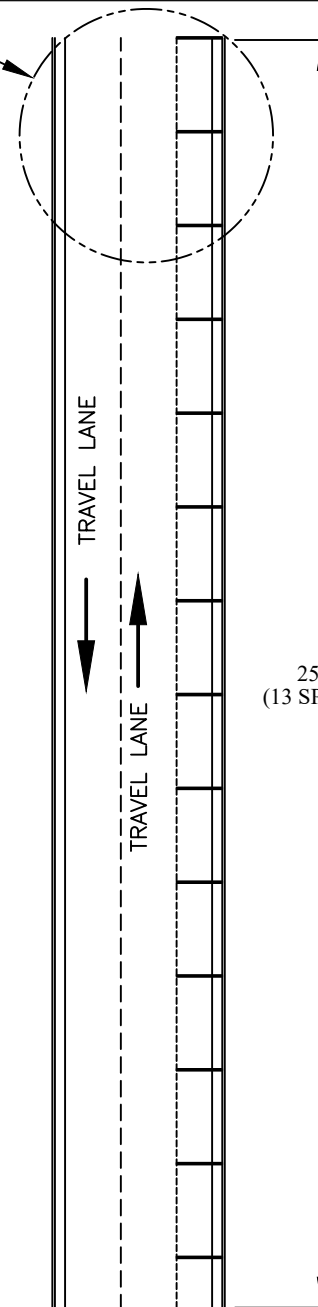


PLAN DETAIL SCALE: 1"=10'



SECTION VIEW SCALE: 1"=10'

SEE PLAN
DETAIL



250.0
(13 SPACES)

PLAN VIEW
SCALE: 1"=40'

ON STREET STANDARD PARALLEL PARKING ONE SIDE DETAIL

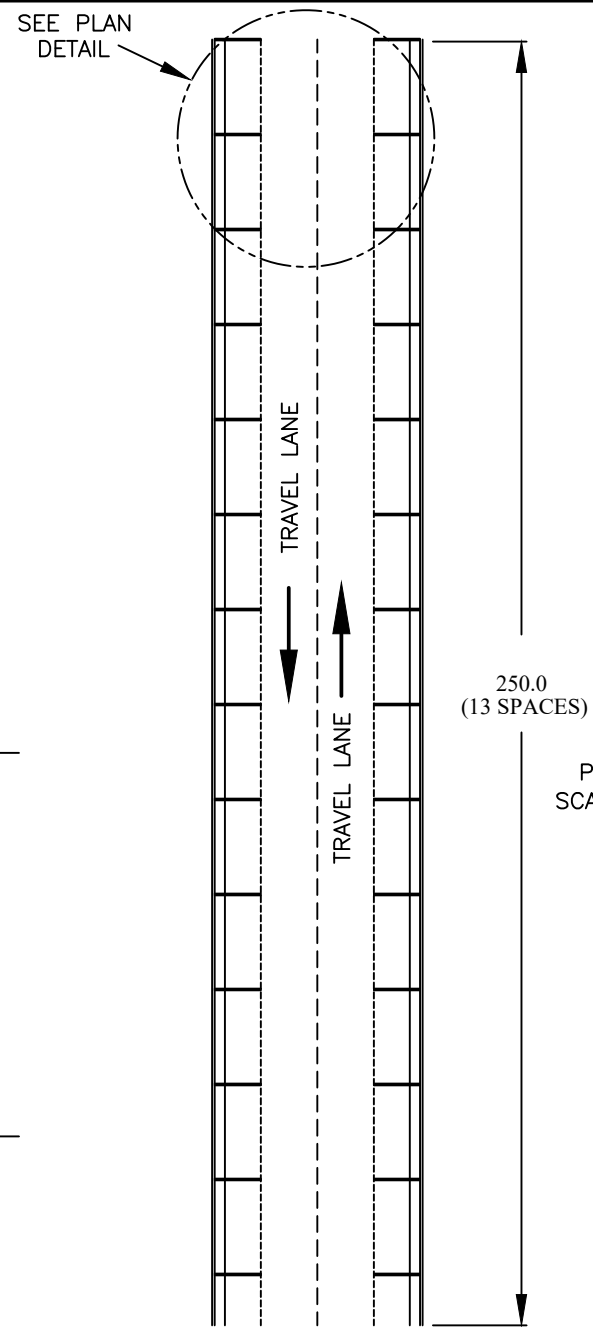
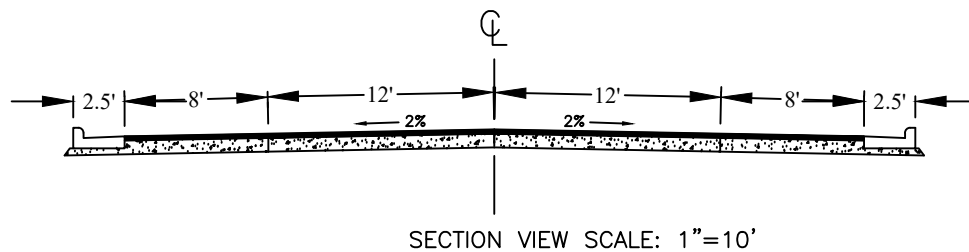
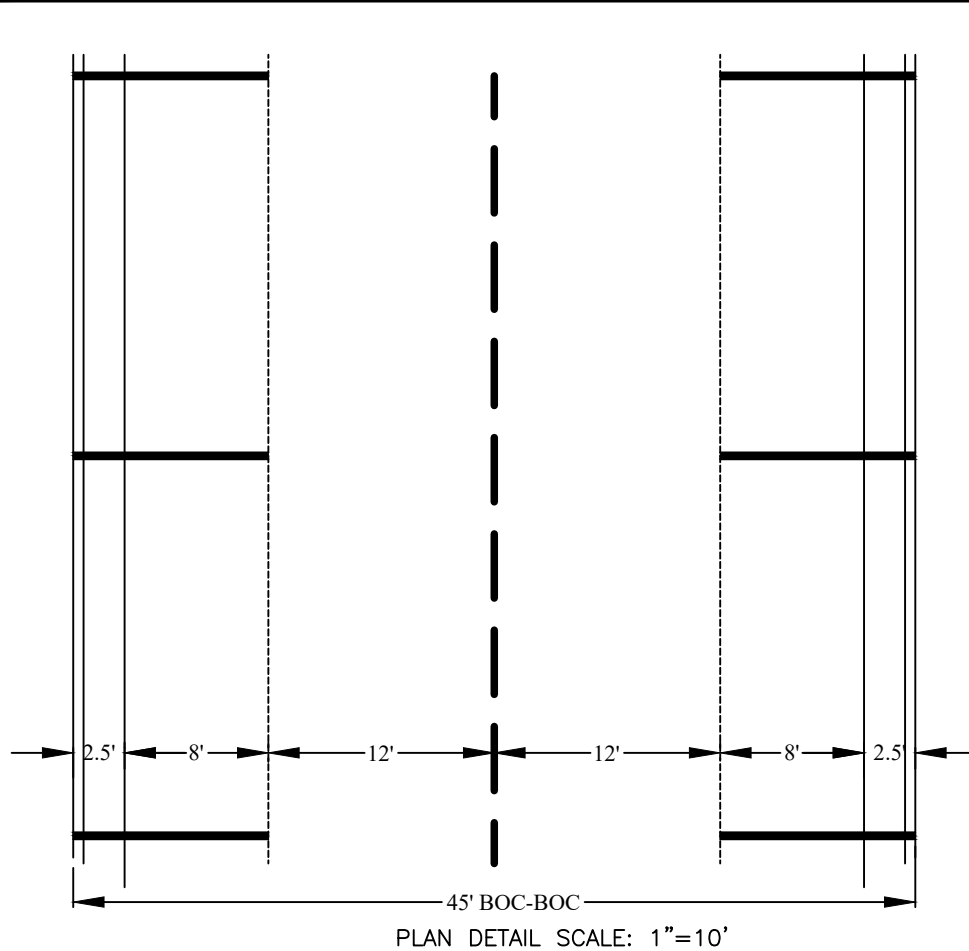
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS345

DATE
6/12/15

REVISIONS





ON STREET STANDARD PARALLEL PARKING BOTH SIDES DETAIL

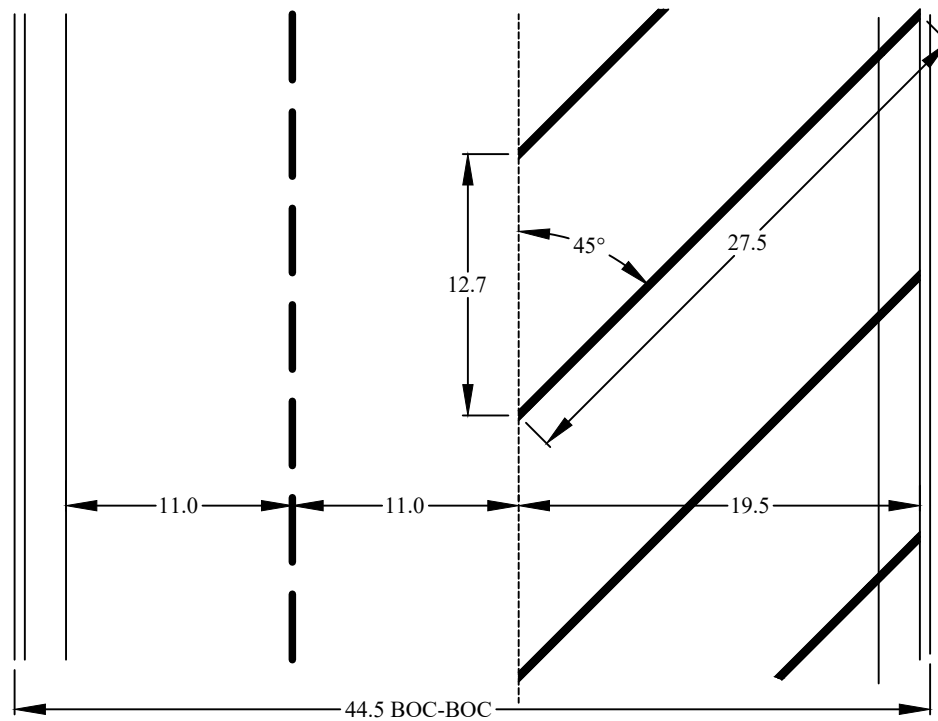
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

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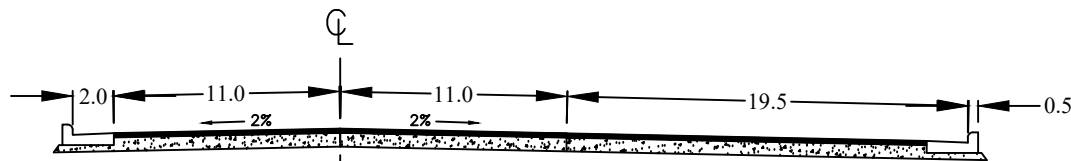
DATE
6/12/15

REVISIONS



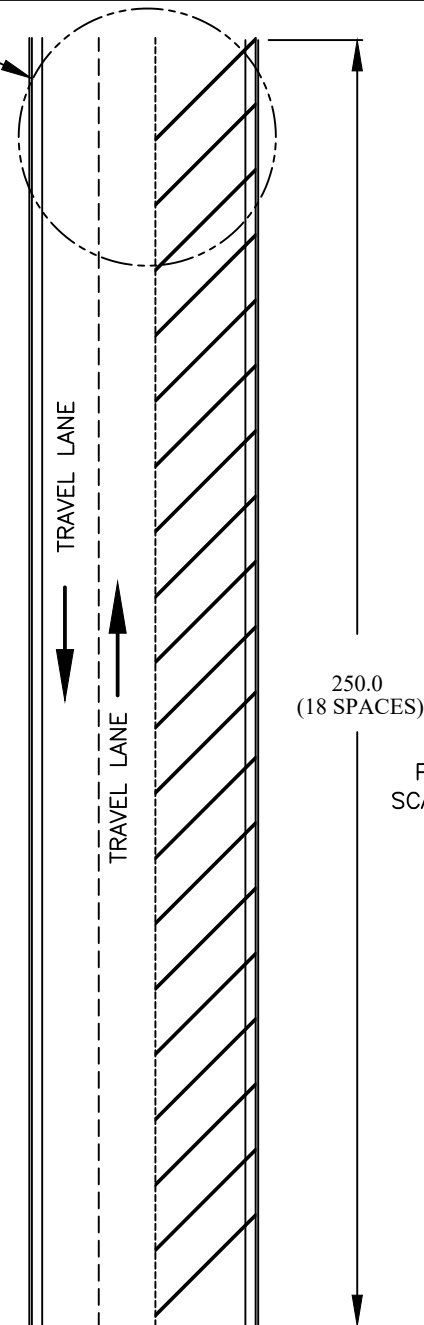


PLAN DETAIL SCALE: 1"=10'



SECTION VIEW SCALE: 1"=10'

SEE PLAN
DETAIL



PLAN VIEW
SCALE: 1"=40'

ON STREET STANDARD 45° PARKING DETAIL

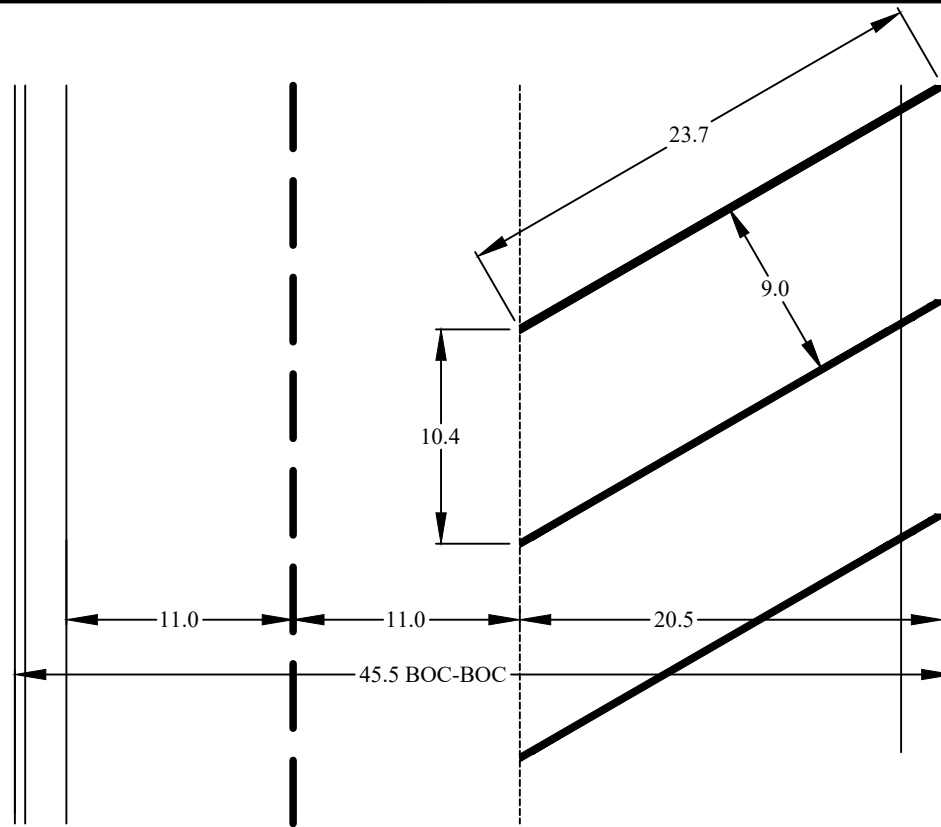
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS347

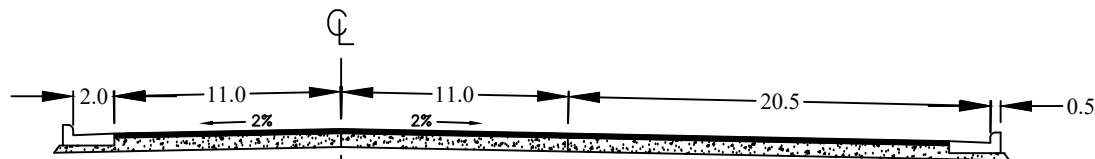
DATE REVISIONS

2/8/10



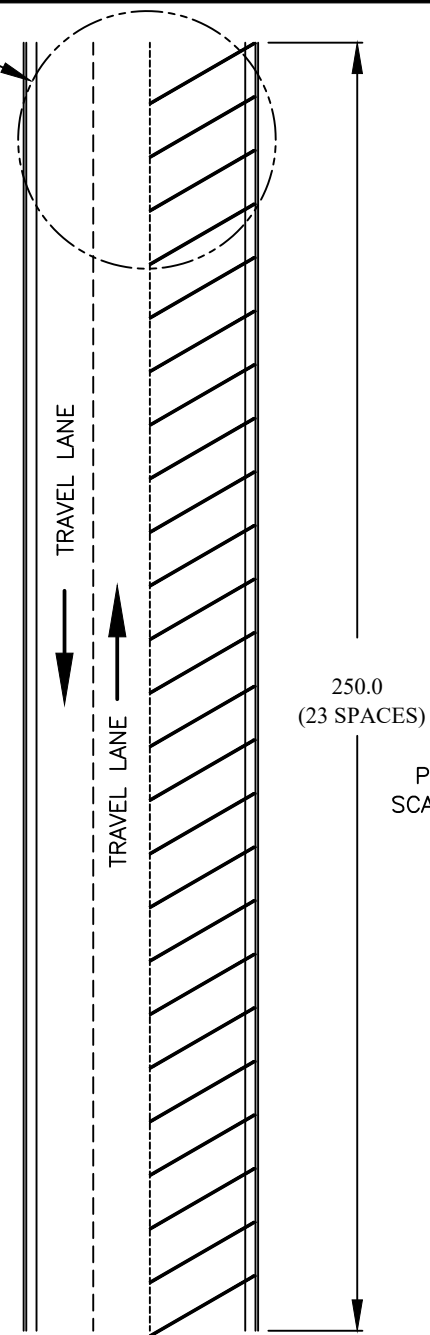


PLAN DETAIL SCALE: 1"=10'



SECTION VIEW SCALE: 1"=10'

SEE PLAN
DETAIL



PLAN VIEW
SCALE: 1"=40'

ON STREET STANDARD 60° PARKING DETAIL

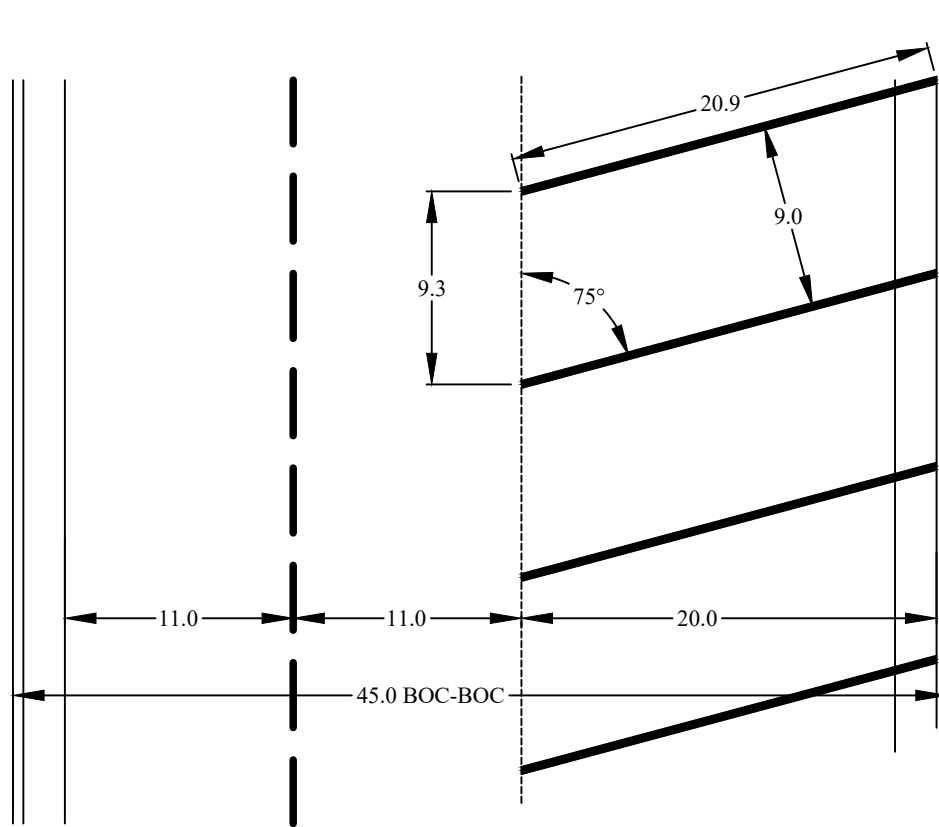
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS348

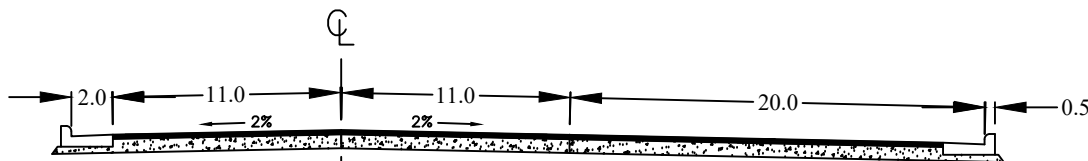
DATE REVISIONS

2/8/10

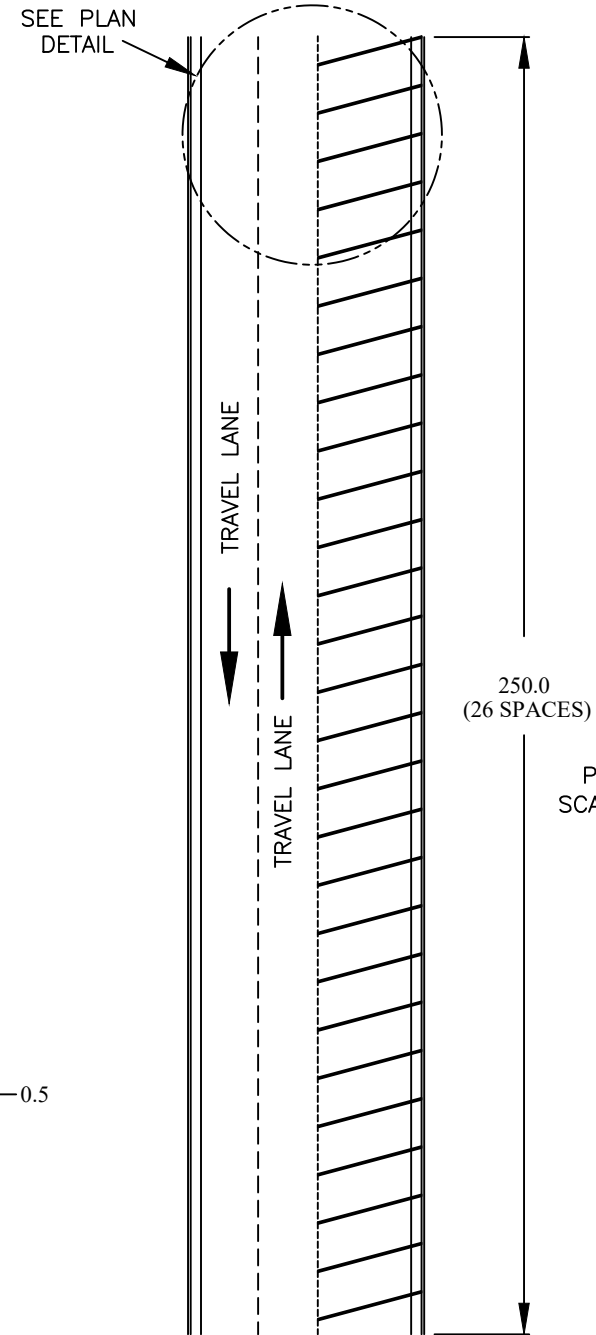




PLAN DETAIL SCALE: 1"=10'



SECTION VIEW SCALE: 1"=10'



PLAN VIEW
SCALE: 1"=40'

ON STREET STANDARD 75° PARKING DETAIL

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS349

DATE REVISIONS

2/8/10

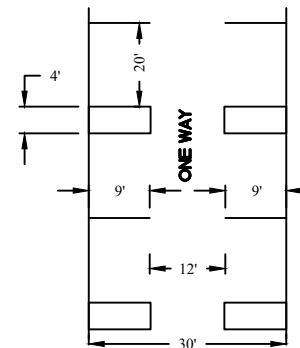
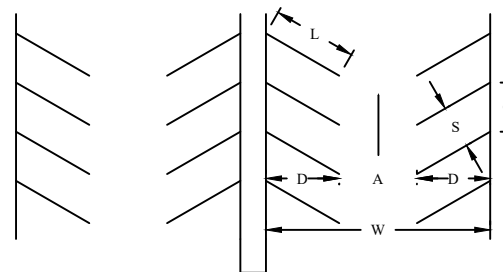


FIGURE 2

PARKING LOT STALL DIMENSIONS							
DIMENSIONS FOR 90-DEGREE PARKING							
APPLICATION		(S) STALL WIDTH (Feet)	(C) STALL LENGTH (Feet)	(D) STALL DEPTH (Feet)	(L) LINEAR DEPTH (Feet)	(A) AISLE WIDTH (Feet)	(W) MODULE WIDTH (Feet)
CUSTOMER high turnover	RECOMMENDED	10	10	18	18	24	60
		9.5	9.5	18	18	25	61
CUSTOMER AND EMPLOYEE low turnover	RECOMMENDED	10	10	18	18	23	59
		9.5	9.5	18	18	24	60
	MINIMUM	9	9	18	18	25	61
DIMENSIONS FOR 60-DEGREE PARKING							
APPLICATION		(S) STALL WIDTH (Feet)	(C) STALL LENGTH (Feet)	(D) STALL DEPTH (Feet)	(L) LINEAR DEPTH (Feet)	(A) AISLE WIDTH (Feet)	(W) MODULE WIDTH (Feet)
CUSTOMER high turnover	RECOMMENDED	10	11.5	15.6	18	22.8	54
		9.5	11	15.6	18	23.8	55
CUSTOMER AND EMPLOYEE low turnover	RECOMMENDED	10	11.5	15.6	18	20.8	52
		9.5	11	15.6	18	21.8	53
	MINIMUM	9	10.4	15.6	18	22.8	54
DIMENSIONS FOR 45-DEGREE PARKING							
APPLICATION		(S) STALL WIDTH (Feet)	(C) STALL LENGTH (Feet)	(D) STALL DEPTH (Feet)	(L) LINEAR DEPTH (Feet)	(A) AISLE WIDTH (Feet)	(W) MODULE WIDTH (Feet)
CUSTOMER high turnover	RECOMMENDED	10	14.1	12.7	18	22.6	48
		9.5	13.4	12.7	18	22.6	48
CUSTOMER AND EMPLOYEE low turnover	RECOMMENDED	10	14.1	12.7	18	21.6	47
		9.5	13.4	12.7	18	22.6	48
	MINIMUM	9	12.7	12.7	18	23.6	49

PROVIDE 4'-6" OF SPACING BETWEEN
ABUTTING PARKING BAYS

NOTE: C=S FOR 90 DEGREE PARKING
D=L FOR 90 DEGREE PARKING
L=18 FT (FACE TO CURB)



DRAWING NOT TO SCALE

PARKING LOT STALL DIMENSIONS

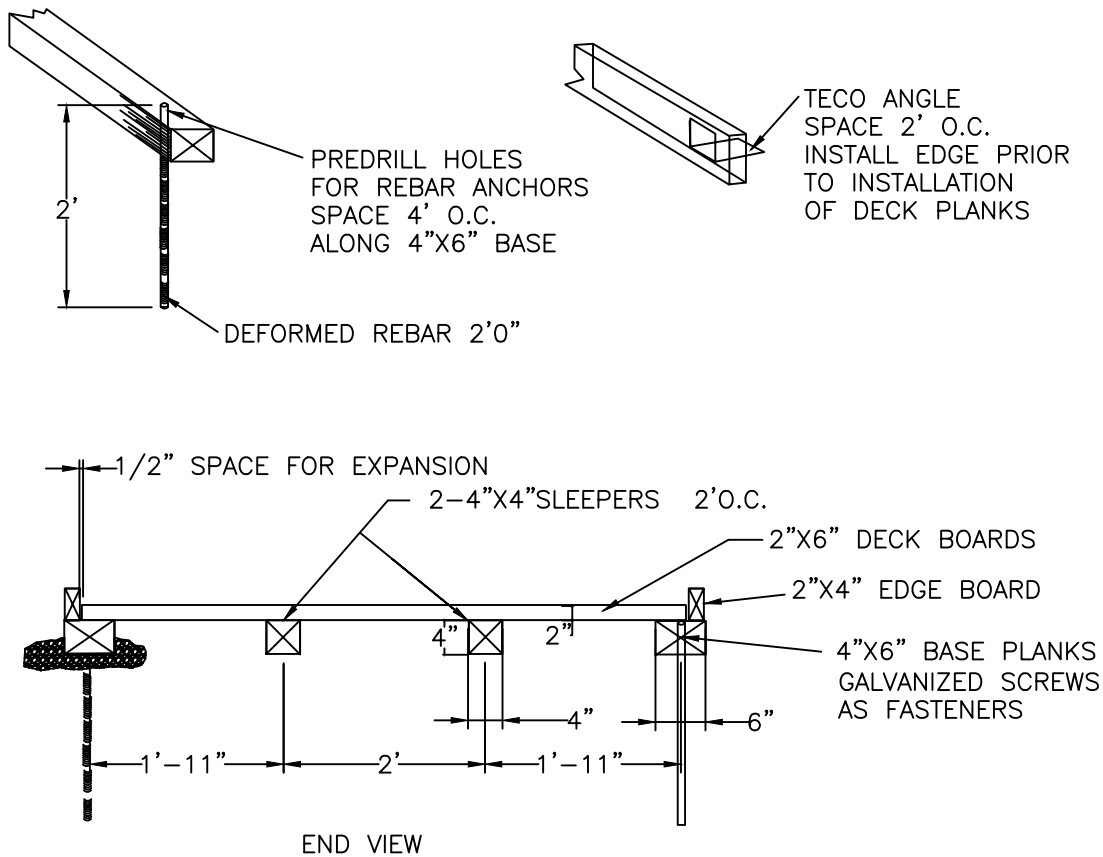
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS350

DATE REVISIONS

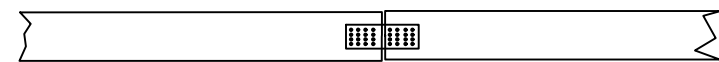
2/8/10





NOTES:

1. STAGGER JOINTS ON ALL LINEAR MEMBERS
2. USE GRAVEL FILL TO LEVEL THE BASE MEMBERS WHERE NEEDED
3. USE GALVANIZED SCREW FASTENERS
4. USE TECO PLATES AT JOINTS AND FOR FASTENING EDGING
5. PREDRILL HOLES FOR ANCHORING DECK BOARDS



TECO PLATE TO HOLD 4x4 AND 4x6 UNITS TOGETHER
SIDE VIEW

DRAWING NOT TO SCALE

TREX BOARDWALK DETAIL

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS352

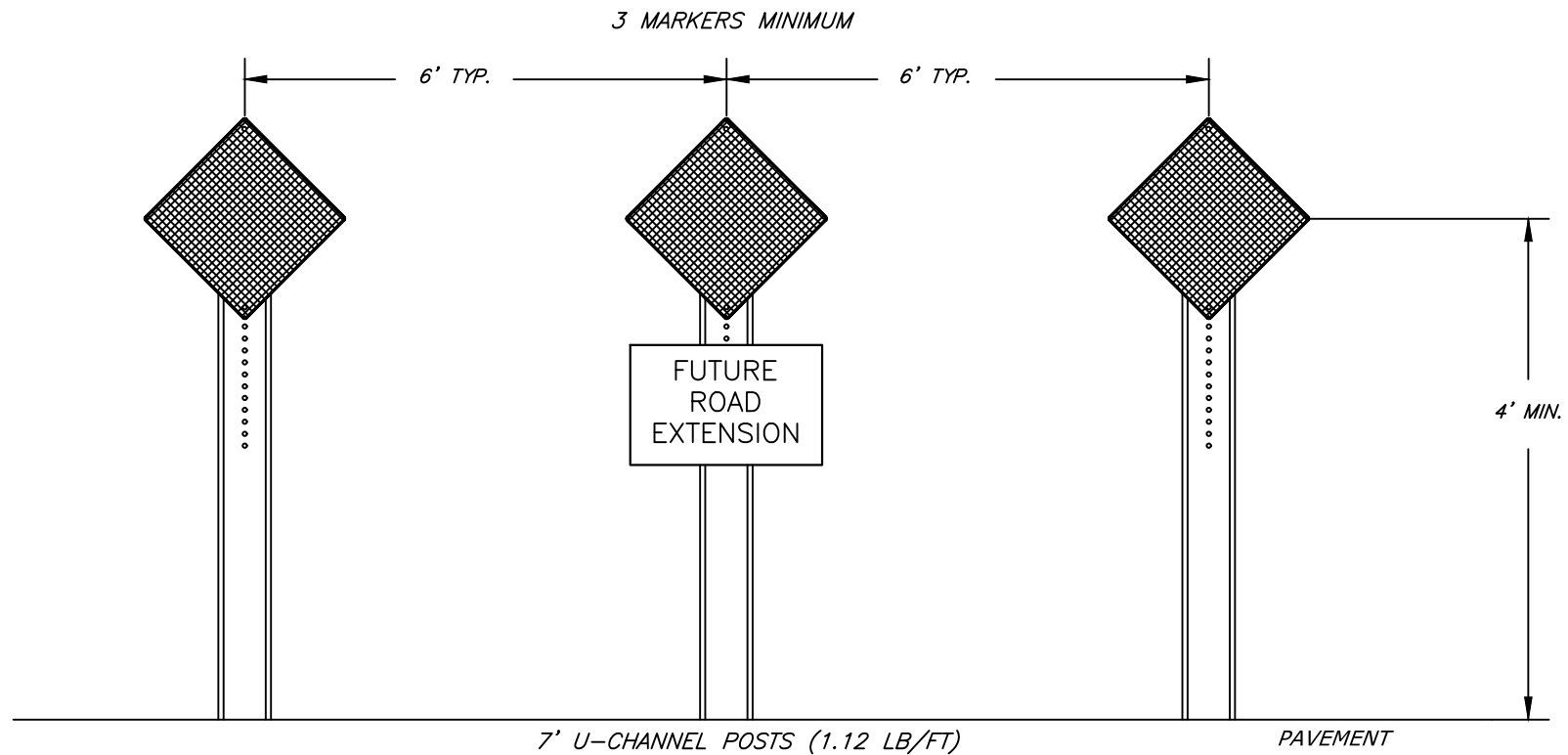
DATE REVISIONS

9/21/16



END OF ROAD MARKERS

TYPICAL APPLICATION AT END OF ROADWAY (DEAD END)
REGARDLESS OF WHETHER GUARDRAIL IS INSTALLED



NOTE:

1. ADVANCED WARNING SIGNAGE W14-1(DEAD END) REQUIRED AS PER MUTCD FOR DEAD END JUST AFTER LAST INTERSECTING STREET.
2. MARKERS TO COVER ENTIRE STREET WITH SPACING STARTING AT CURB.

DRAWING NOT TO SCALE

END OF ROAD MARKERS (DEAD END)

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS353

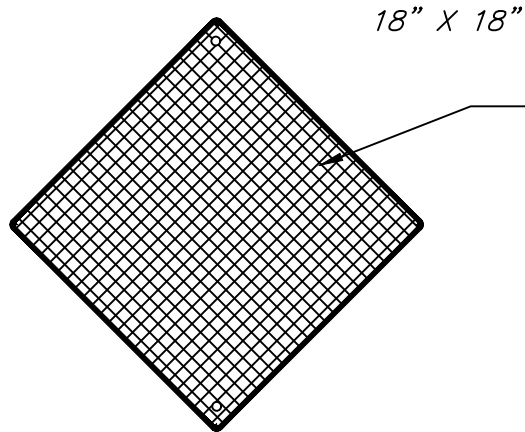
DATE REVISIONS

2/23/10



END OF ROAD MARKERS

ALTERNATIVE 1

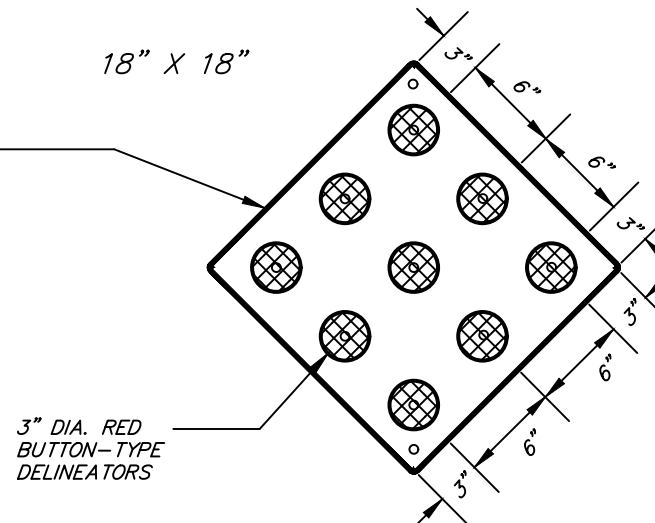


18" X 18"

RED

REFLECTIVE SHEETING
MOUNTED ON
0.125" ALUMINIUM PANEL

ALTERNATIVE 2



18" X 18"

3" DIA. RED
BUTTON-TYPE
DELINEATORS

DRAWING NOT TO SCALE

END OF ROAD MARKERS

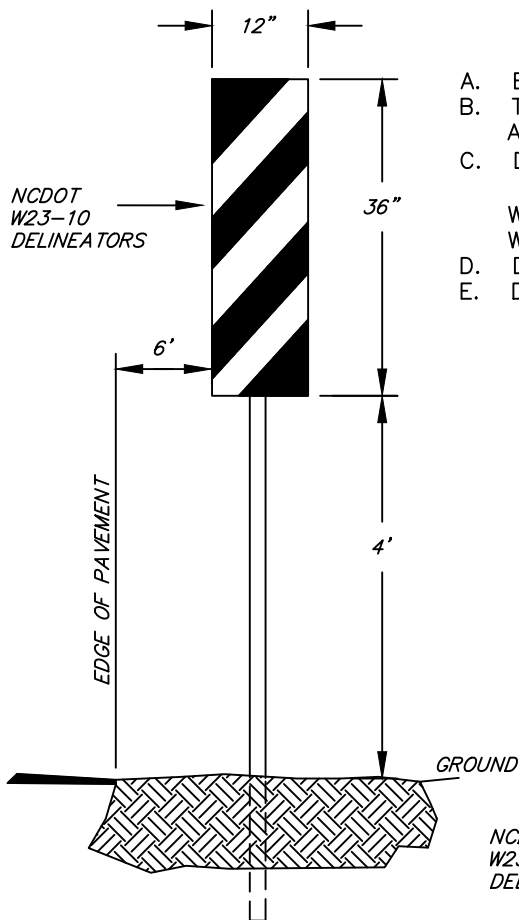
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: **HS354**

DATE REVISIONS

8/30/19



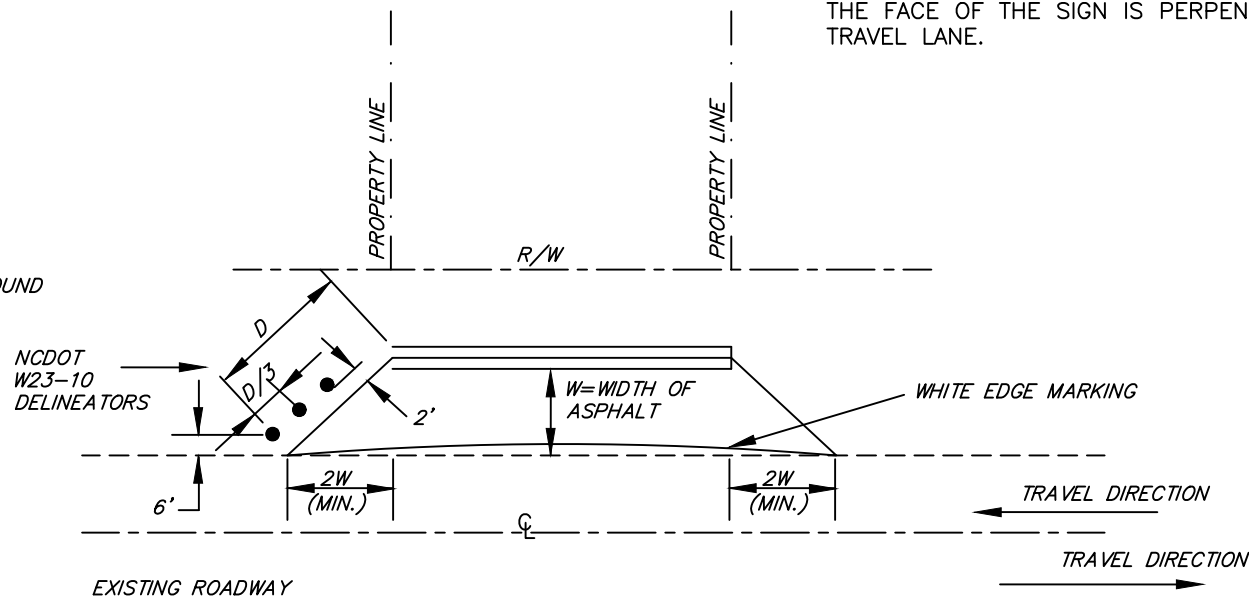


DETAIL

- A. BOTTOM EDGE OF DELINEATOR 4' ABOVE ROADWAY.
- B. THE DELINEATOR STRIPES SHALL SLOPE UPWARD AND OUTWARD FROM TRAFFIC.
- C. DELINEATORS TO BE SPACED ON CENTER AT $1/3$ OF THE DISTANCE D SHOWN BELOW FOR NEW ASPHALT WIDTHS ≤ 15 FT OR AT $1/4$ OF D FOR NEW ASPHALT WIDTHS > 15 FT.
- D. DELINEATORS SHALL BE MOUNTED ON BREAKAWAY POSTS.
- E. DELINEATORS SHALL BE REFLECTORIZED.

NOTES:

1. TAPER ON BOTH ENDS OF ROADWAY WIDENING SHALL BE A MINIMUM 2:1. THE DIRECTOR OF ENGINEERING AND/OR NCDOT RESERVE THE RIGHT TO REQUIRE A LONGER TAPER IF DEEMED NECESSARY FOR THE SAFETY OF THE PUBLIC.
2. A SOLID WHITE EDGE MARKING SHALL BE EXTENDED ALONG WIDENING AT EXISTING PAVEMENT.
3. DELINEATORS SHALL ONLY BE REQUIRED AT TAPER FROM CURB TO EXISTING PAVEMENT IN DIRECTION OF TRAVEL
4. DELINEATORS SHALL BE ORIENTED SUCH THAT THE FACE OF THE SIGN IS PERPENDICULAR TO TRAVEL LANE.



PLAN VIEW

DRAWING NOT TO SCALE

STANDARD PAVEMENT WIDENING TAPER AND MARKINGS

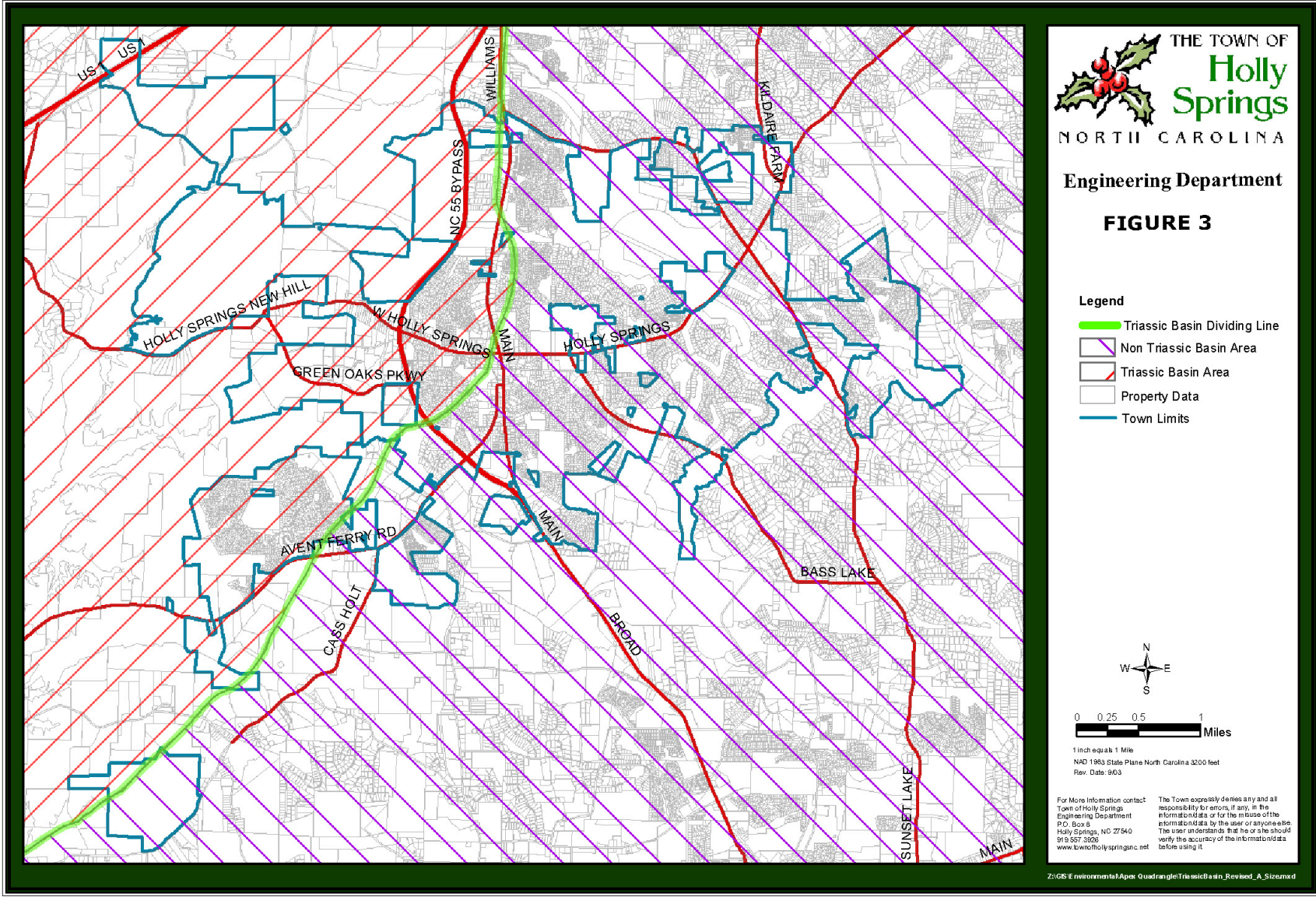
STANDARD DETAIL NUMBER: HS355

DATE REVISIONS

2/8/10

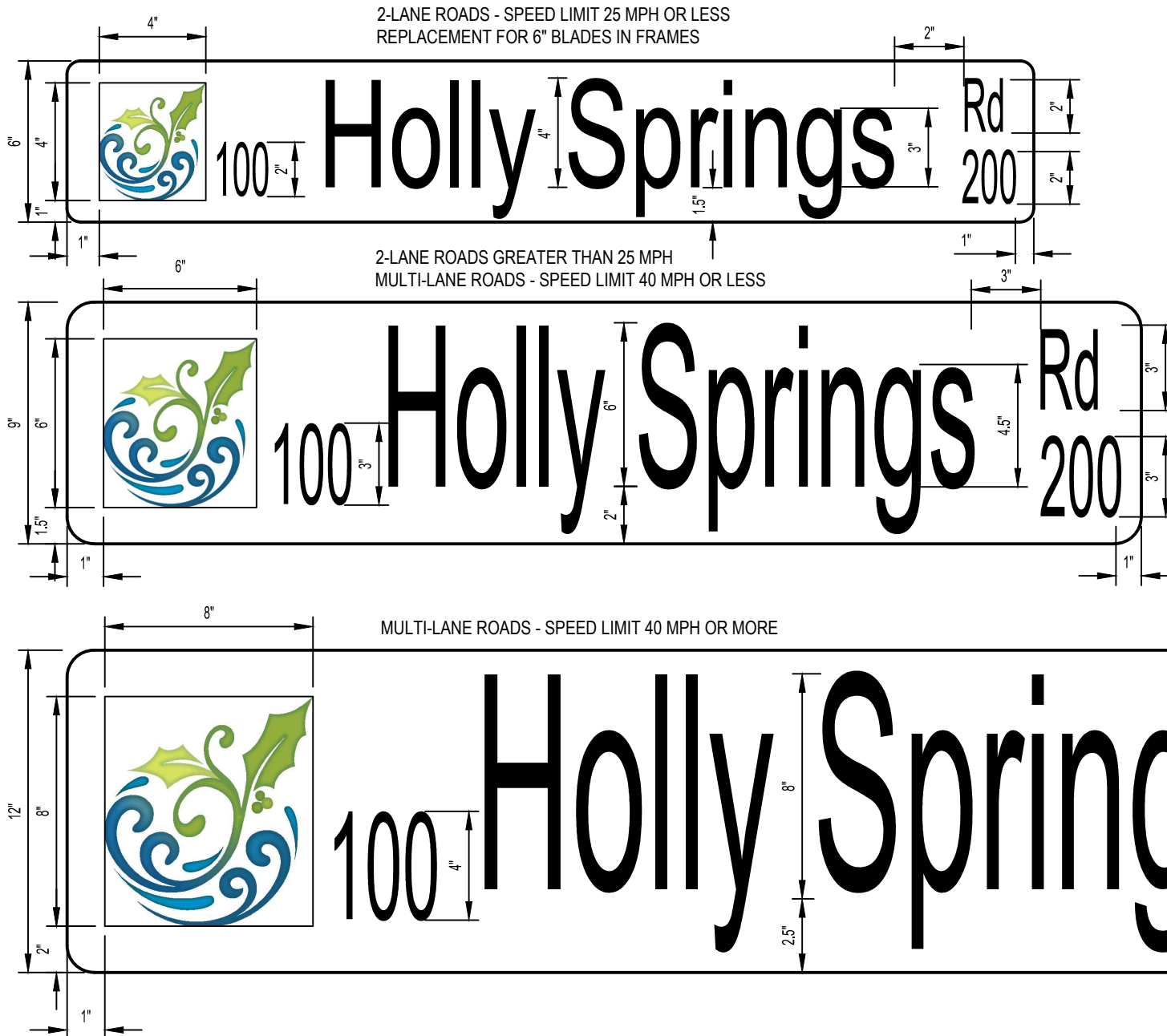
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT





DRAWING NOT TO SCALE

TRIASSIC BASIN DIVIDING LINE TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT	STANDARD DETAIL NUMBER HS356		
	DATE 2/8/10	REVISIONS	



NOTES:

1. ALL CURRENT MUTCD STANDARDS SHALL PREVAIL (2D.45 STREET NAME SIGNS).
2. 36" MIN. LENGTH OF BLADE WILL VARY DEPENDING ON THE NUMBER OF LETTERS IN THE STREET NAME. FOR STREET NAMES LONGER THAN THE MANUFACTURED SIGN BLADE LENGTH, REFER TO THE TOWN ENGINEER.
3. IN THE CASE OF PRIVATE STREETS, THERE WILL BE NO HOLLY LEAF LOGO. THE WORDS "PRIVATE STREET" IN BLACK ON A YELLOW BACKGROUND AS SHOWN BELOW SHALL BE ON THE LEFT SIDE INSTEAD.
4. BLADE THICKNESS: 0.08 IN (36"-47.9"); 0.125 IN (48")
5. GREEN RETROREFLECTIVE BACKGROUND WITH WHITE REFLECTIVE LETTERS.
6. THE TOWN LOGO (PICTOGRAPH) SHALL HAVE A WHITE BACKGROUND AND ALWAYS BE TO THE LEFT OF THE STREET NAME.
7. FONT SHALL BE: ARTISTIC SERIES B2000.



DRAWING NOT TO SCALE

POST-MOUNTED STANDARD TOWN STREET NAME SIGN BLADE

TOWN OF HOLLY SPRINGS

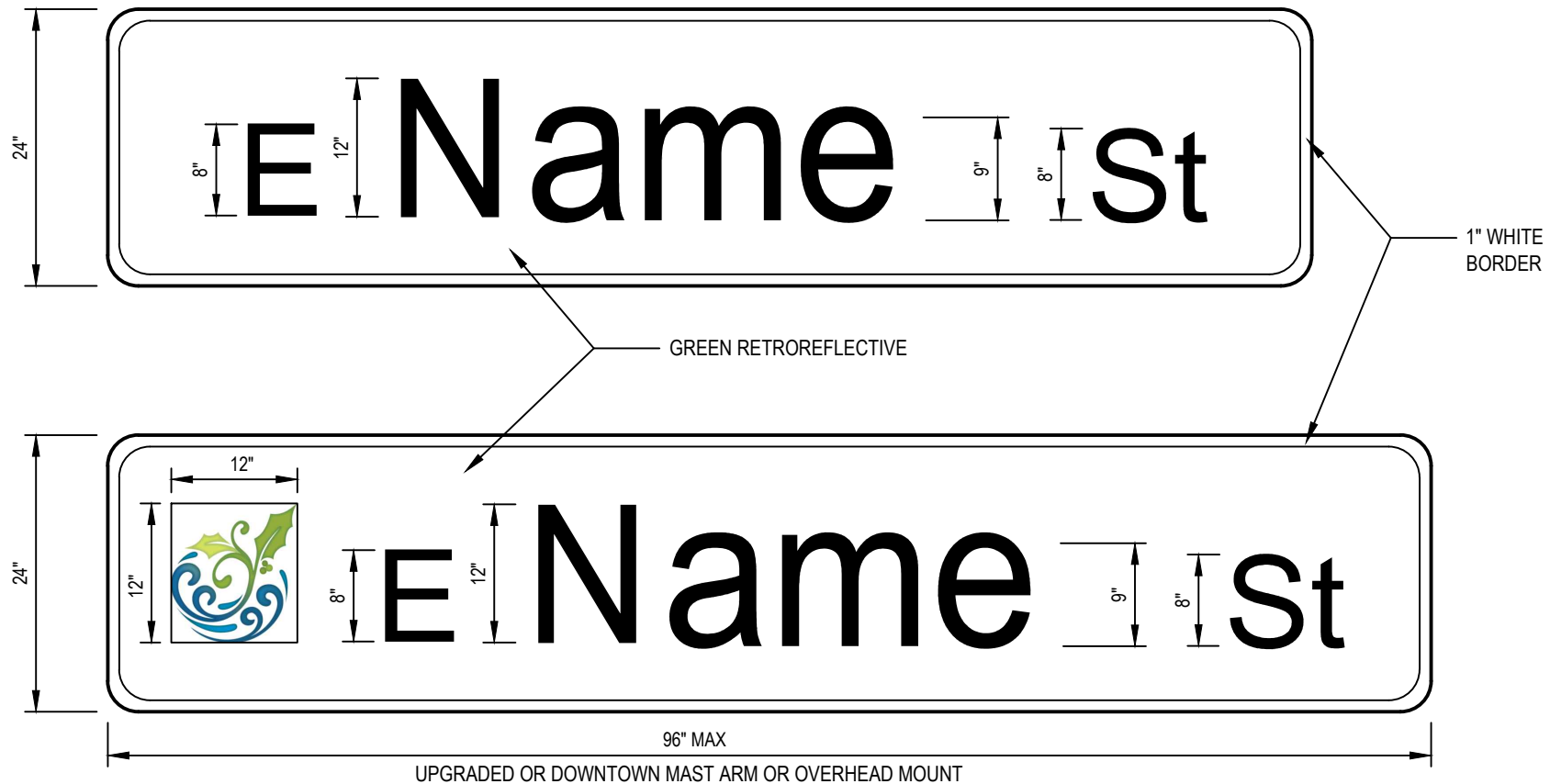
STANDARD DETAIL NUMBER: HS357

DATE REVISIONS

2/23/24

6/11/24





NOTES:

1. ALL CURRENT MUTCD STANDARDS SHALL PREVAIL (2D.45 STREET NAME SIGNS)
2. BLADE THICKNESS: 0.080 IN (36"-47.9"); 0.125 IN (≥ 48 ")
3. GREEN RETROREFLECTIVE BACKGROUND WITH WHITE REFLECTIVE LETTERS.

DRAWING NOT TO SCALE

MAST ARM/OVERHEAD MOUNTED STANDARD TOWN STREET NAME BLADE SIGN

STANDARD DETAIL NUMBER: HS358

DATE REVISIONS

11/16/18

2/23/24

6/11/24

TOWN OF HOLLY SPRINGS



NOTES:

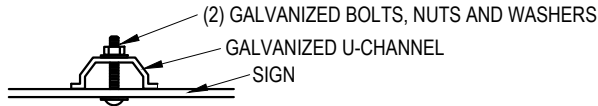
1. 42" MINIMUM BURY DEPTH FOR SIGN TYPES WITH THIS DETAIL, PER NCDOT STANDARDS.

2. IF MORE THAN ONE SIGN IS TO BE MOUNTED ON A POST THE BOTTOM EDGE OF THE LOWER SIGN MUST BE 7 FT (84") TO BOTTOM OF PRIMARY SIGN. PLAQUES MAY BE LOWER. ANY PRIMARY SIGN HEIGHTS UNDER 7 FT BY ENGINEER APPROVAL.

3. FOR BLADE INFORMATION SEE DETAIL HS357.

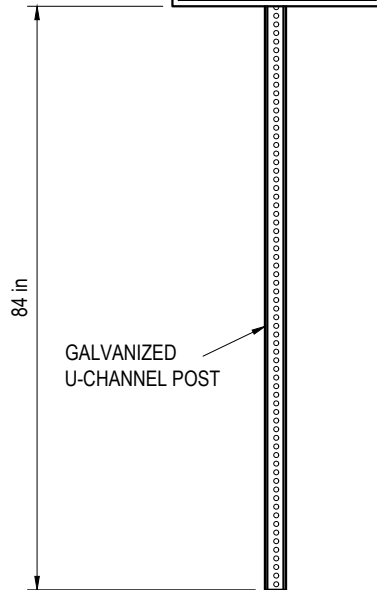
4. ALL SIGNS MUST MEET MUTCD STANDARDS AND GUIDELINES.

THE SIGN BLADE CONNECTOR IS FURNISHED BY NC DEPT. OF CORRECTIONS: BLADE BRACKETS & CROSS PIECES.

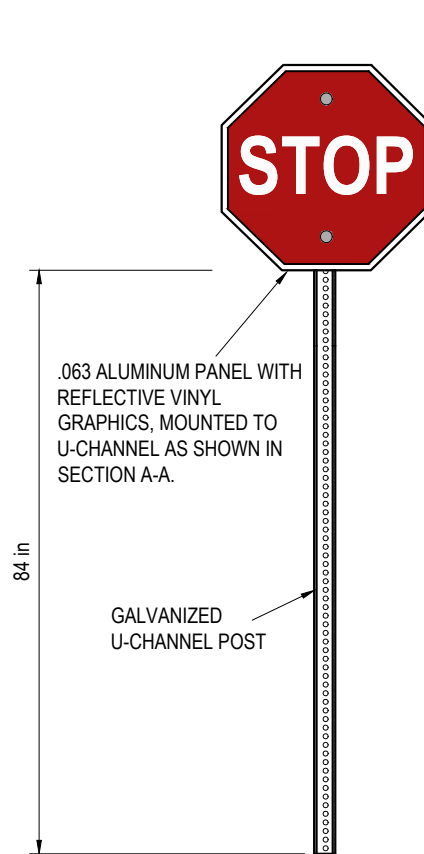


SECTION A-A
TYPICAL SIGN TO
POST CONNECTION

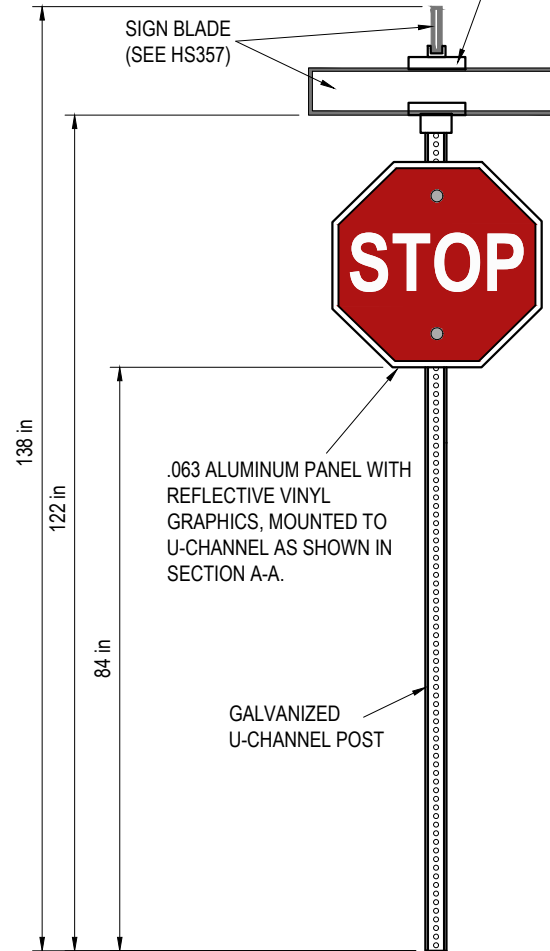
TRAFFIC
CONTROL SIGN
SIZE VARIES



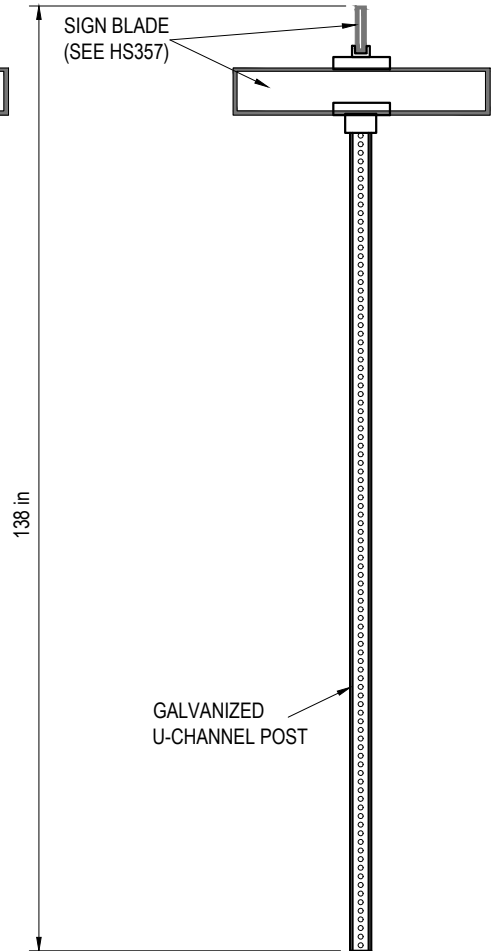
TRAFFIC CONTROL
SIGN



STOP SIGN



STOP & STREET
SIGN COMBO



STREET NAME
BLADE ONLY

DRAWING NOT TO SCALE

STANDARD TRAFFIC CONTROL AND STREET NAME SIGN AND POSTS

TOWN OF HOLLY SPRINGS

STANDARD DETAIL NUMBER: HS359

DATE REVISIONS

4/18/11
6/11/24
11/19/24



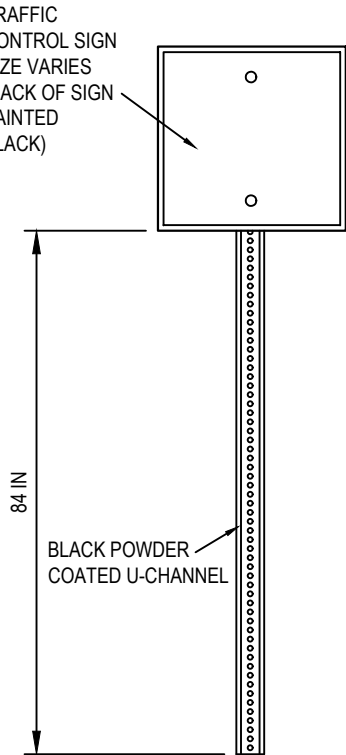
NOTES:

1. 42" MINIMUM BURY DEPTH FOR BREAKAWAY GALVANIZED U-CHANNEL PER NCDOT STANDARDS.
2. ALL POLES SHALL BE BREAKAWAY, SUPPLIERS TO SUBMIT FHWA AND/OR NCDOT APPROVAL LETTER WITH QUOTES REGARDING PROPOSED BREAKAWAY DETAIL.
3. FOR SIGN BLADE INFORMATION SEE DETAIL HS357.
4. ALL SIGNS MUST MEET MUTCD STANDARDS AND GUIDELINES.

5. ALL MATERIAL TO MEET REQUIRED SPECS. AS ATTACHED.

6. ALL MOUNTING HARDWARE SHALL BE BLACK.

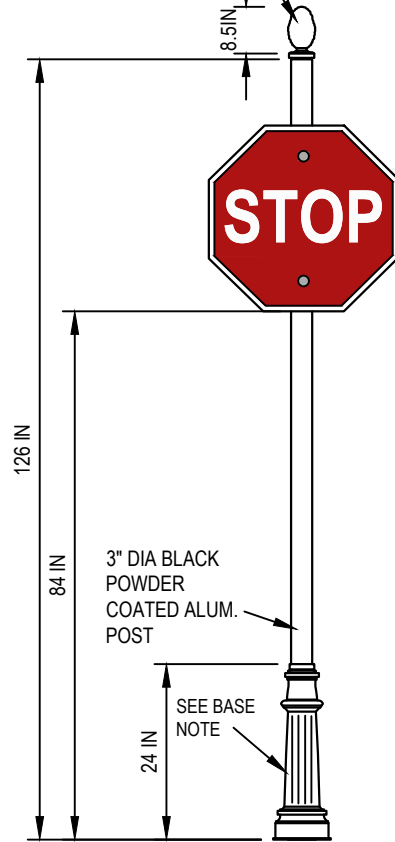
TRAFFIC CONTROL SIGN SIZE VARIES (BACK OF SIGN PAINTED BLACK)



TRAFFIC CONTROL SIGN

DECORATIVE BLACK POWDER COATED ALUM. PINEAPPLE FINIAL IMPERIAL POST SYSTEMS D SERIES FINIAL #7 OR EQUIVALENT.

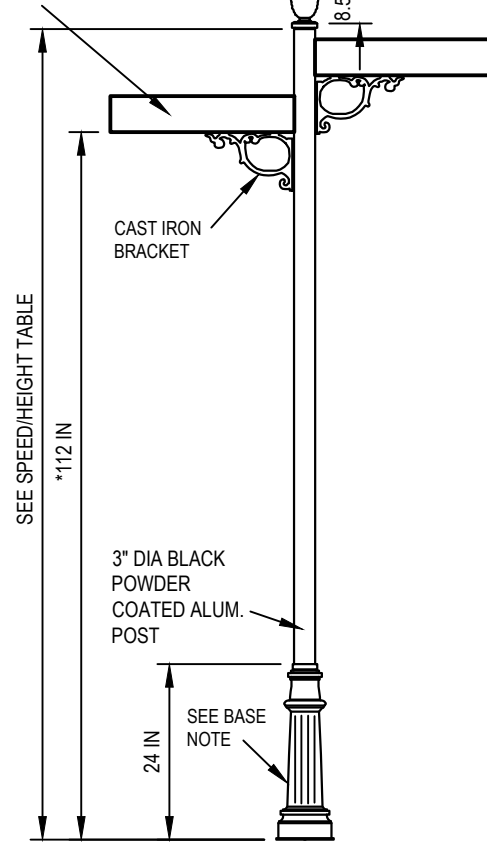
TOWN STANDARD STREET BLADE MOUNTS INSIDE A CUSTOM EXTRUDED BLACK POWDER COATED ALUM. FRAME. (2 BLADES PER UNIT)



STOP SIGN

DECORATIVE BLACK POWDER COATED ALUM. PINEAPPLE FINIAL IMPERIAL POST SYSTEMS D SERIES FINIAL #7 OR EQUIVALENT.

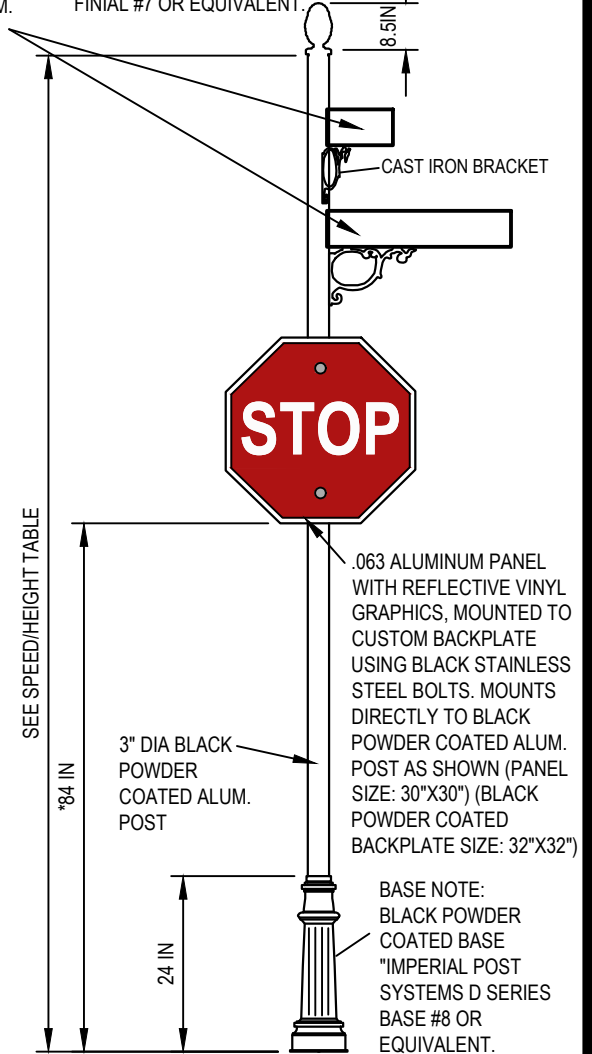
CAST IRON BRACKET



STREET NAME BLADE ONLY

DECORATIVE BLACK POWDER COATED ALUM. PINEAPPLE FINIAL IMPERIAL POST SYSTEMS D SERIES FINIAL #7 OR EQUIVALENT.

CAST IRON BRACKET



STOP SIGN WITH BLADES

*HEIGHT VARIES DEPENDING ON SPEED OF ROAD. SEE DETAIL HS357 FOR BLADE SIZES.

W/ TRAFFIC CONTROL BLADE ONLY

- LOCAL ROAD - UP TO 25 MPH	162"	150"
- SPEED LIMIT - 26-40 MPH	170"	158"
- SPEED LIMIT - OVER 40 MPH	182"	182"

DRAWING NOT TO SCALE

STANDARD TRAFFIC CONTROL AND STREET NAME SIGN AND POSTS
FOR THOROUGHFARES

TOWN OF HOLLY SPRINGS

STANDARD DETAIL NUMBER: HS360

DATE REVISIONS

4/5/19
6/11/24
11/19/2024



NOTES:

1. 42" MINIMUM BURY DEPTH FOR BREAKAWAY GALVANIZED U-CHANNEL PER NCDOT STANDARDS.

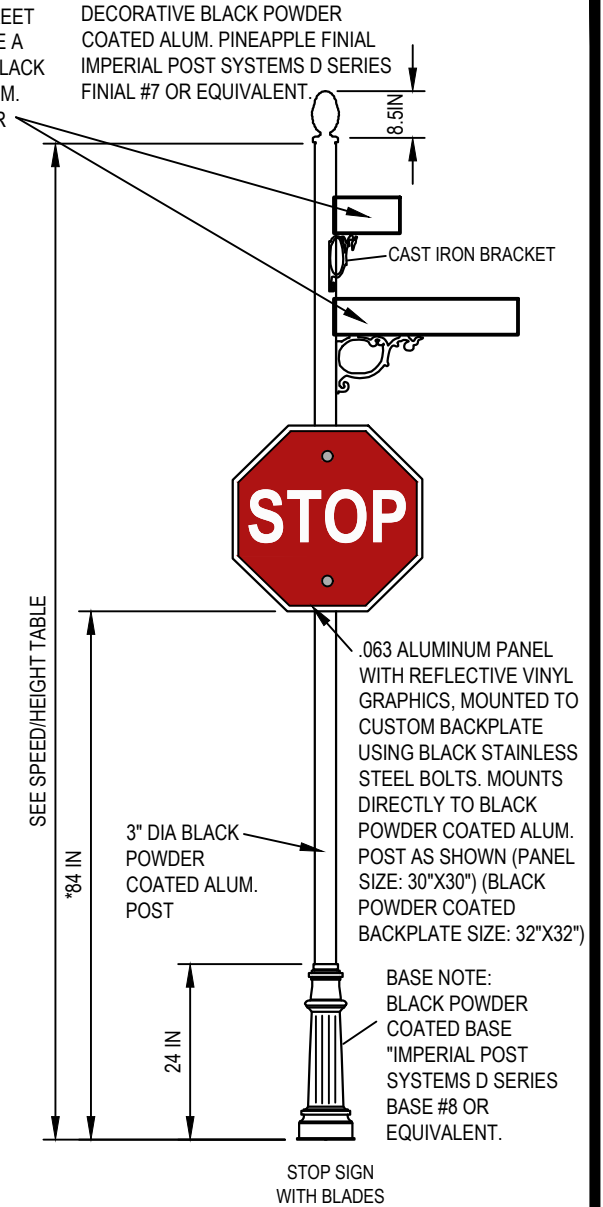
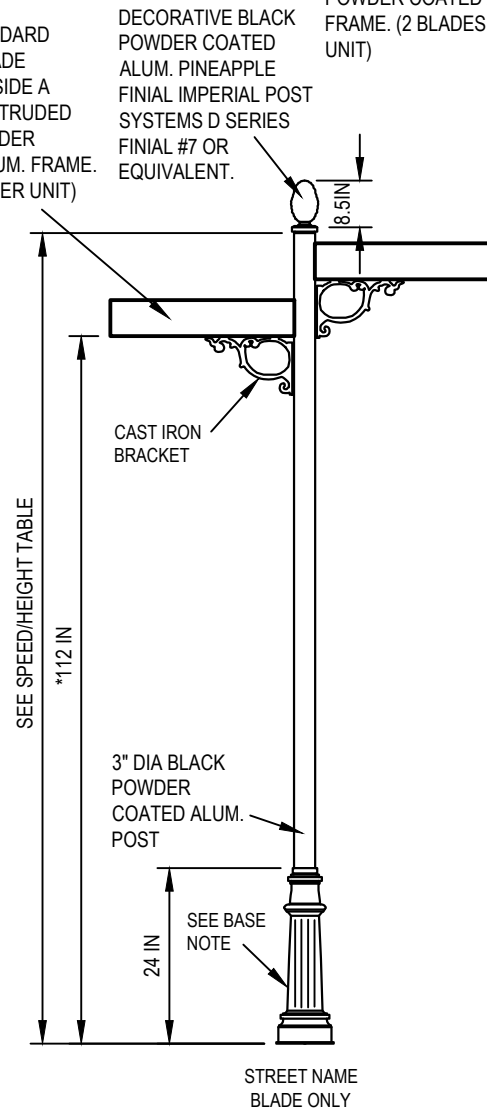
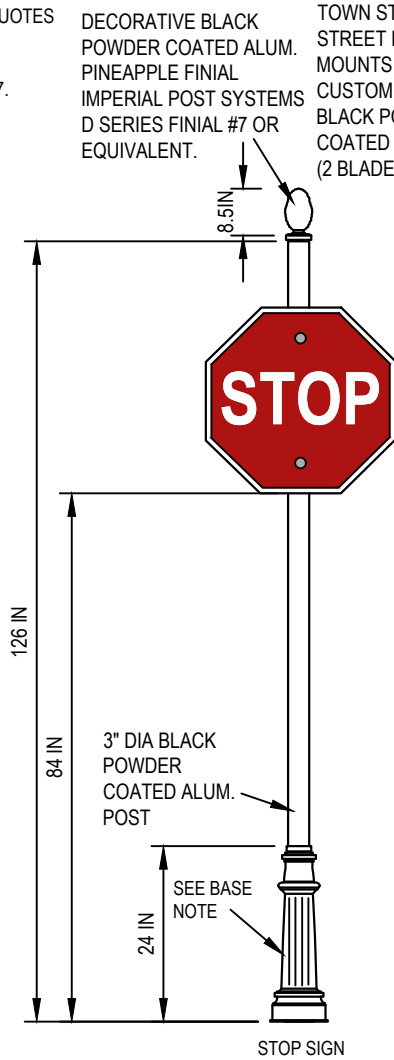
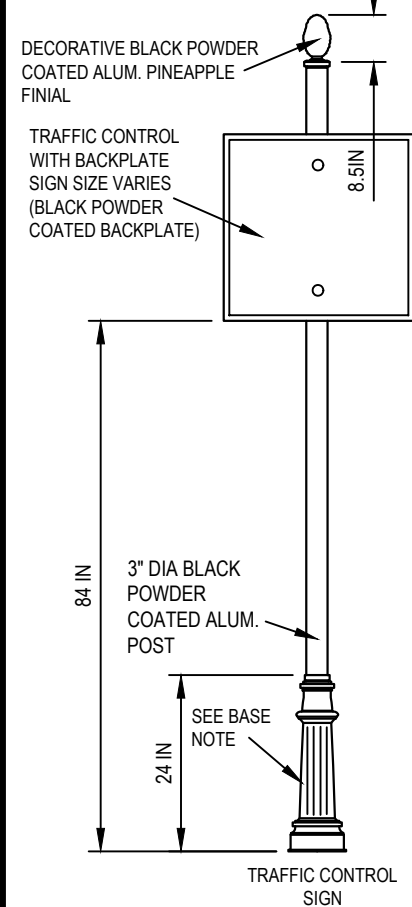
2. ALL POLES SHALL BE BREAKAWAY, SUPPLIERS TO SUBMIT FHWA AND/OR NCDOT APPROVAL LETTER WITH QUOTES REGARDING PROPOSED BREAKAWAY DETAIL.

3. FOR SIGN BLADE INFORMATION SEE DETAIL HS357.

4. ALL SIGNS MUST MEET MUTCD STANDARDS AND GUIDELINES.

5. ALL MATERIAL TO MEET REQUIRED SPECS. AS ATTACHED.

6. ALL MOUNTING HARDWARE SHALL BE BLACK.



*HEIGHT VARIES DEPENDING ON SPEED OF ROAD. SEE DETAIL HS357 FOR BLADE SIZES.

W/ TRAFFIC CONTROL BLADE ONLY

- LOCAL ROAD - UP TO 25 MPH	162"	150"
- SPEED LIMIT - 26-40 MPH	170"	158"
- SPEED LIMIT - OVER 40 MPH	182"	182"

DRAWING NOT TO SCALE

UPGRADED TRAFFIC CONTROL AND STREET NAME SIGN AND POSTS FOR DOWNTOWN

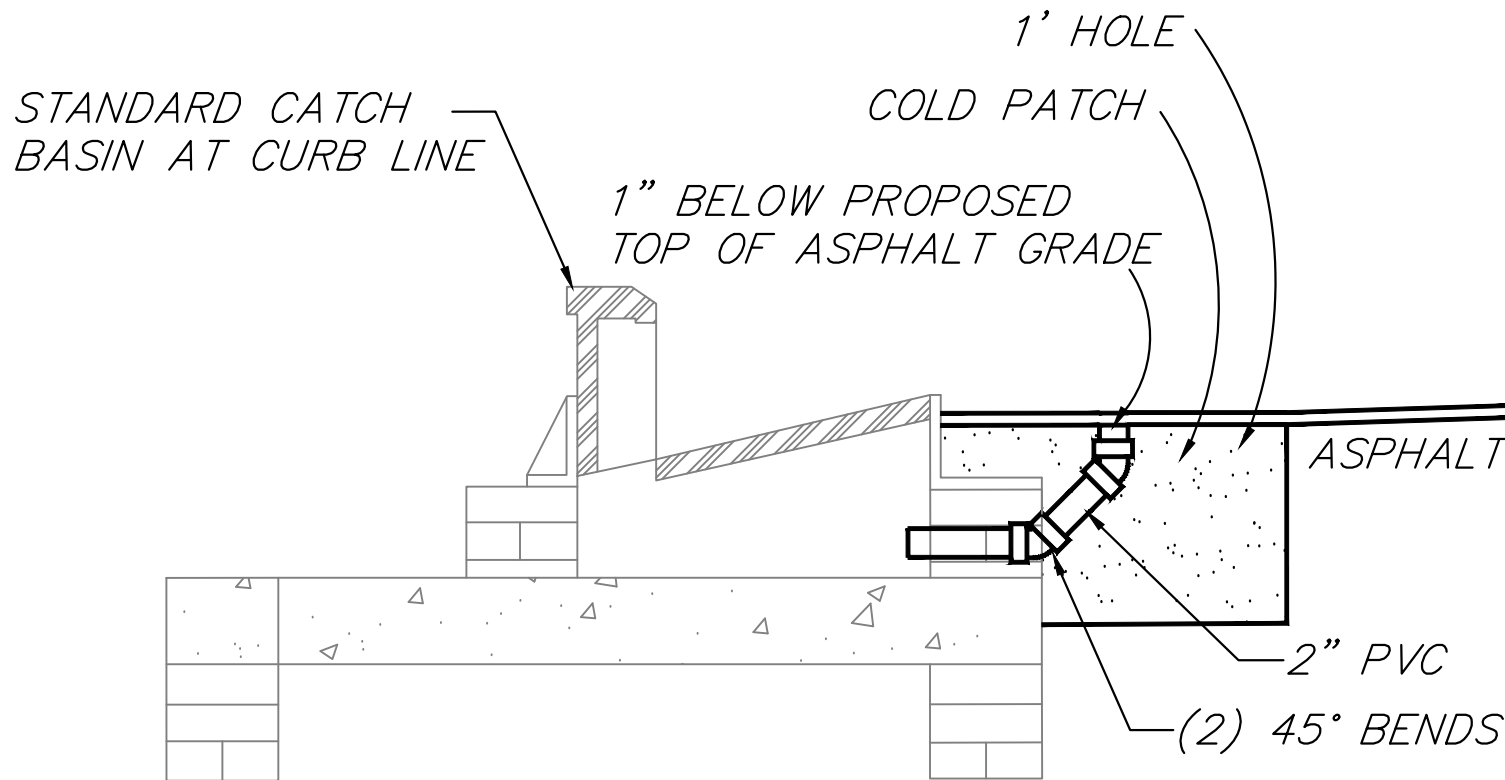
STANDARD DETAIL NUMBER: HS361

DATE REVISIONS

4/5/19
6/11/24
11/19/24

TOWN OF HOLLY SPRINGS





NOTES:

1. Weep holes are only to be used at low points on street to prevent standing water.
2. Silt sacs are not to be used at catch basin locations with weep holes.
3. Weep holes may only be used when recovery storm drain floods to an active sediment basin.
4. Silt sacs are to be placed in catch basin when weep hole is removed.
5. To remove weep hole, fill PVC pipe with concrete and cap.
6. Weep holes are only to be used prior to final lift of asphalt.

DRAWING NOT TO SCALE

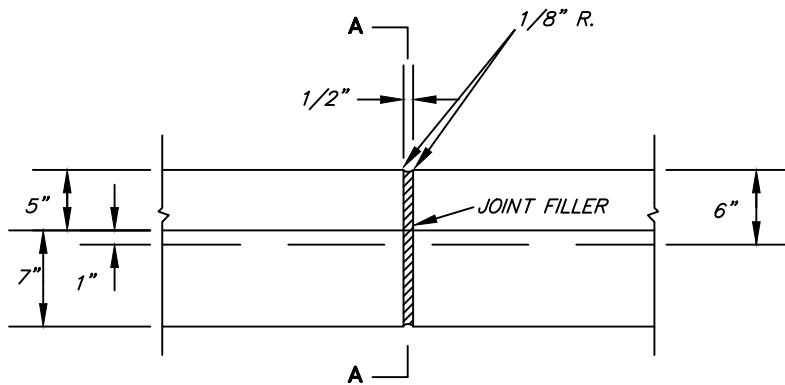
Storm Drain Weep Hole

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

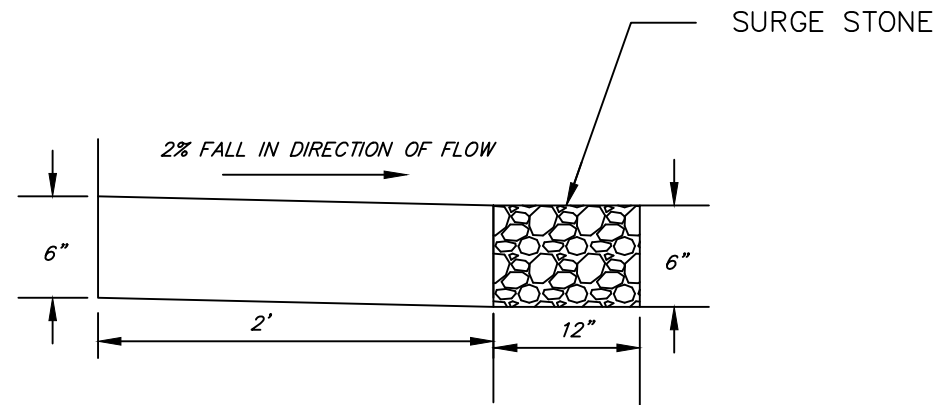
STANDARD DETAIL NUMBER: **HS363**

DATE	REVISIONS
7/7/17	





**TRANSVERSE EXPANSION JOINT
FRONT ELEVATION**



**SECTION A-A
SIDE ELEVATION
FLAT CURB**

NOTES:

1. CONCRETE SHALL BE 3,000 P.S.I.
2. CONTRACTION JOINTS SHALL BE SPACED AT 10' INTERVALS. (15' SPACING WILL BE ALLOWED WHEN A MACHINE IS USED)
3. REMOVAL OF ANY PORTION OF CURB AND GUTTER SHALL REQUIRE FULL REMOVAL AND REPLACEMENT SO THAT NO LONGITUDINAL SEAMS ARE CREATED.
4. MAINTAIN 50' MAX. BETWEEN JOINTS OR AT ALL RIGID OBJECTS.

DRAWING NOT TO SCALE

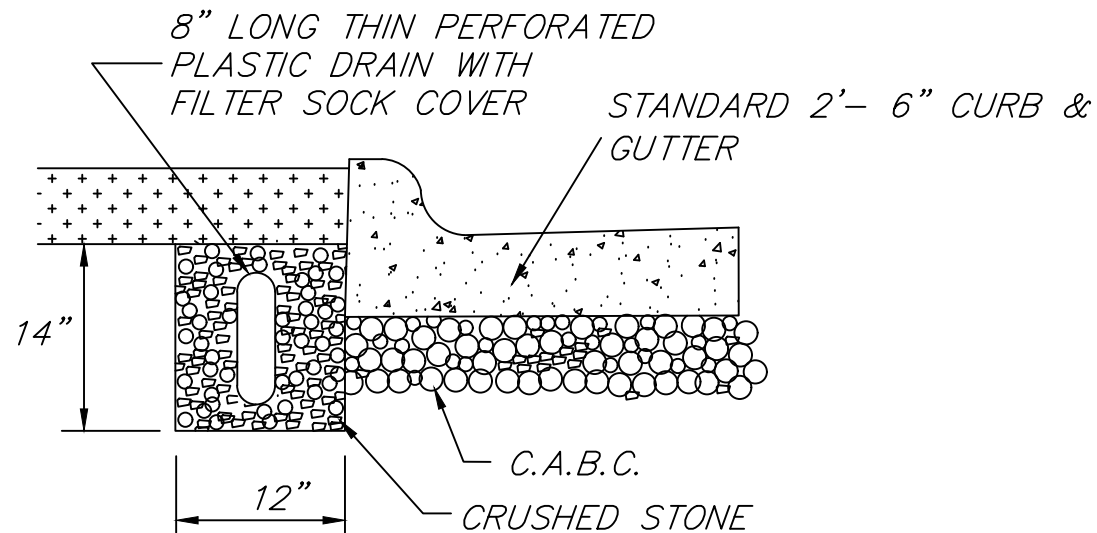
FLAT CONCRETE CURB AND GRAVEL VERGE

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: **HS364**

DATE	REVISIONS
8/4/17	





DRAWING NOT TO SCALE

FRENCH DRAIN CURB DETAIL

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS365

DATE

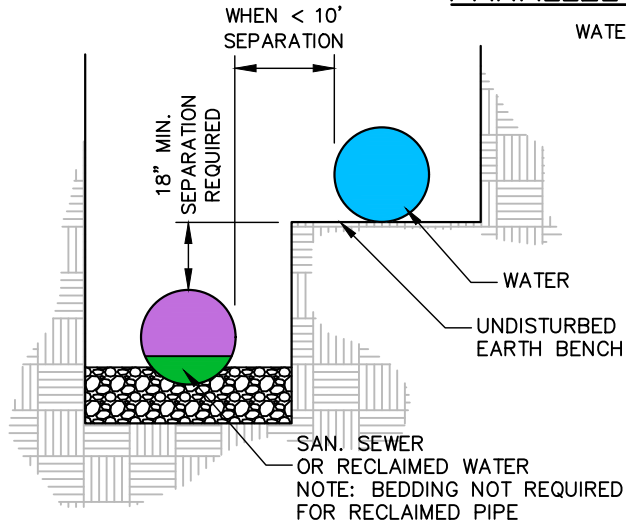
REVISIONS

8/4/17

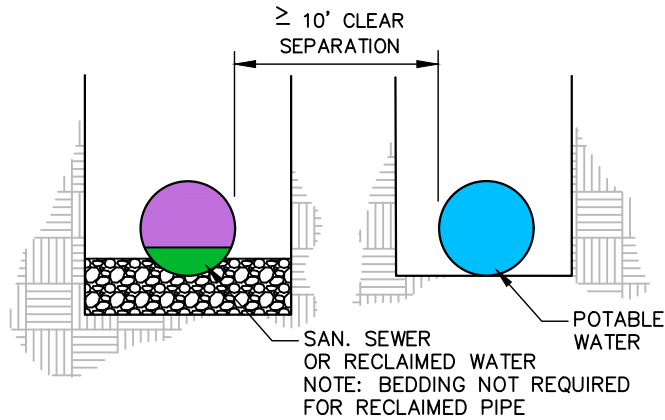


PARALLEL INSTALLATIONS

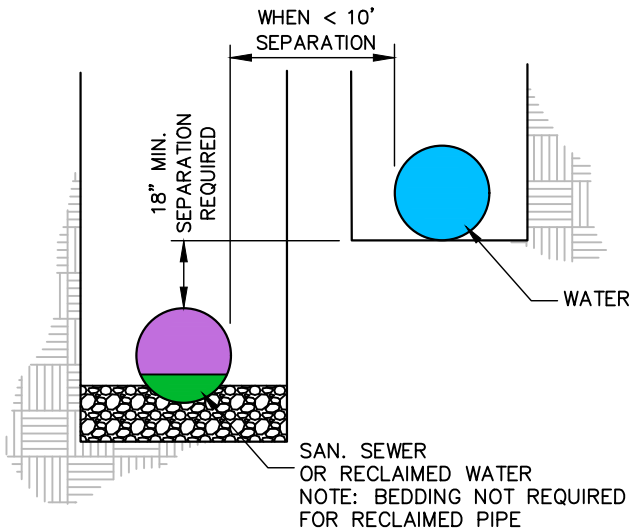
WATER AND SEWER



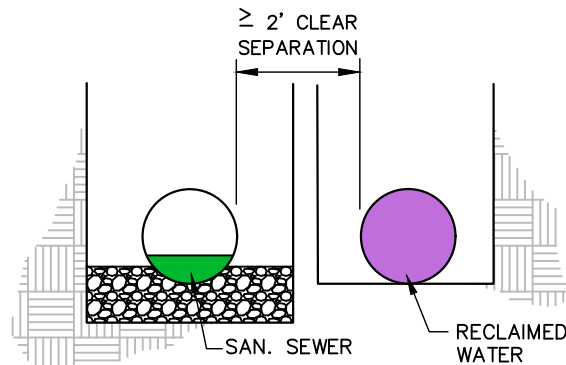
P1 BENCHED CONDITION
< 10' HORIZONTAL SEPARATION



P3 TRENCHED CONDITION
 $\geq 10'$ HORIZONTAL SEPARATION



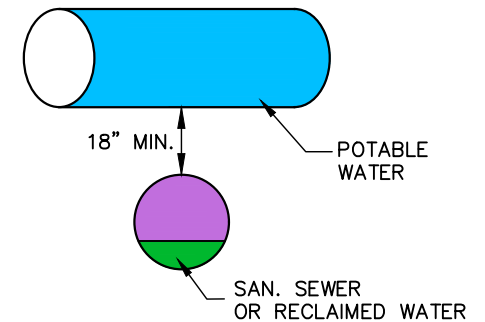
P2 TRENCHED CONDITION
< 10' HORIZONTAL SEPARATION



P4 RECLAIMED WATER TRENCHED CONDITION
 $\geq 2'$ HORIZONTAL SEPARATION
NOTE: IF LESS THAN 2' HORIZONTAL SEPARATION, USE **P1** OR **P2** TYPE INSTALLATION

PERPENDICULAR INSTALLATIONS

WATER AND SEWER



P5 WATER/ SEWER CROSSING

SEPARATION REQUIRED PER
15A NCAC SUBCHAPTERS 02T AND 18C
THE NC ADMINISTRATION CODE.

DRAWING NOT TO SCALE

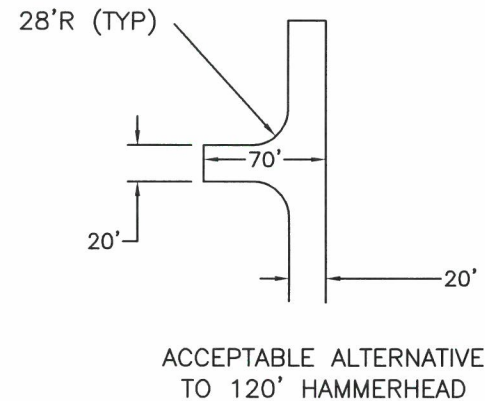
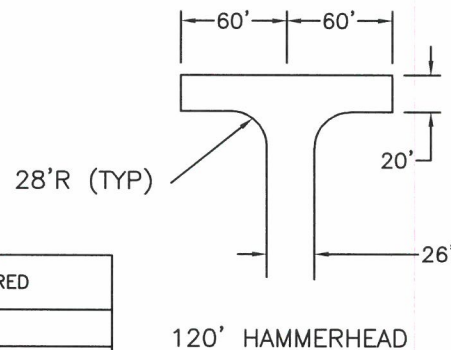
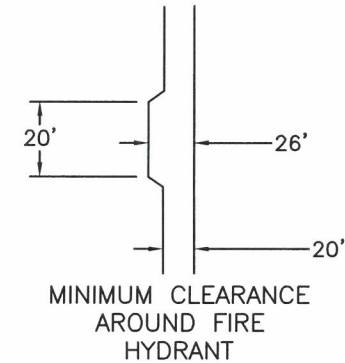
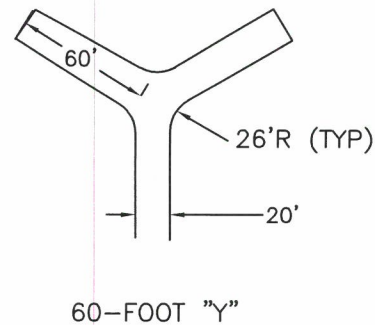
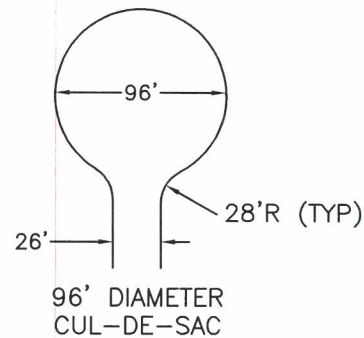
MINIMUM SEPARATION OF UTILITIES AND OTHER FEATURES

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS366

1/4/22 REVISIONS





REQUIREMENTS FOR DEAD-END
FIRE APPARATUS ACCESS ROADS

LENGTH (feet)	WIDTH (feet)	TURNAROUNDS REQUIRED
0-150	20	None required
151-500	20	120-foot Hammerhead, 60-foot "Y" or 96-foot diameter cul-de-sac in accordance with Figure D103.1
501-750	26	120-foot Hammerhead, 60-foot "Y" or 96-foot diameter cul-de-sac in accordance with Figure D103.1
Over 750		Special approval required

Dead-end fire apparatus access roads in excess of 150 feet (45 720 mm) in length shall be provided with an approved area for turning around fire apparatus. See table above.

DRAWING NOT TO SCALE

Grass pavers are acceptable alternatives to concrete, asphalt or gravel for the 120' Hammerhead or the acceptable alternative to 120' Hammerhead. Specification and data sheets on the pavers to be used will need to be submitted for approval.

DEAD END ROAD DETAIL

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

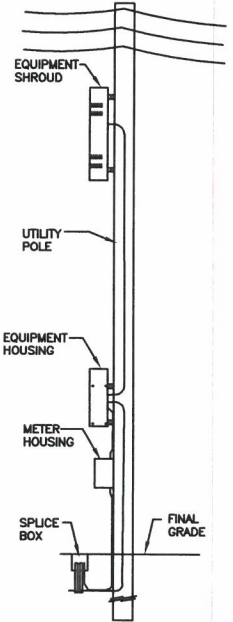
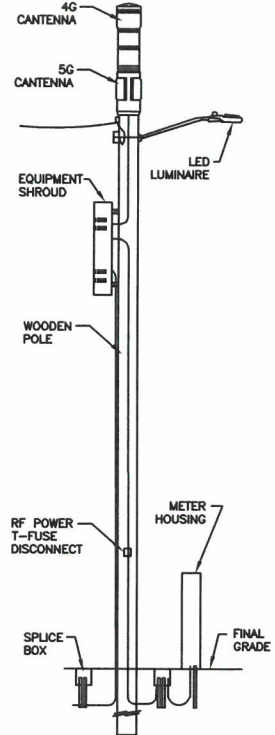
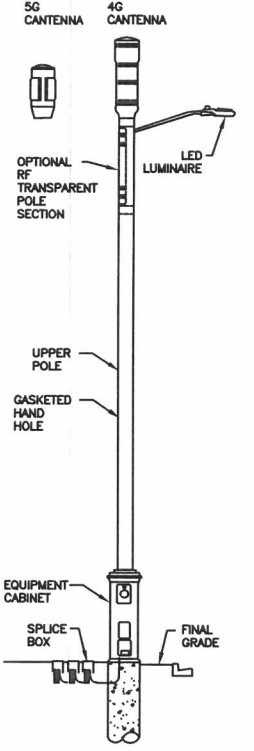
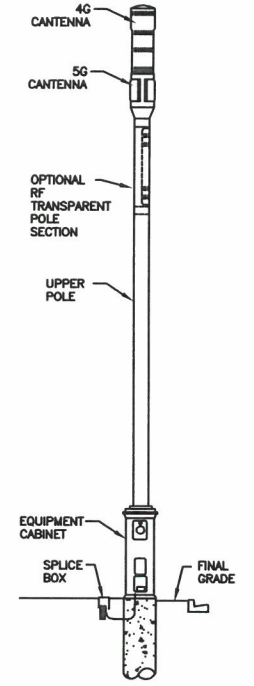
STANDARD DETAIL NUMBER: HS367

DATE

REVISIONS

9/9/20



Type 1—Utility pole attachments	Type 2—Existing wooden streetlight attachment	Type 3—Combination metal small cell and streetlight	Type 4—Freestanding small cell
			
<p>Utility pole mounted equipment must be approved by the appropriate electric utility provider and the Town. All poles must be approved by a Professional Engineer registered in the state of NC for the additional small cell equipment load without additional guy-wires.</p>	<p>Small cell equipment may be attached to existing wooden streetlight poles when no structural modifications will be made to the existing wooden pole. A structural engineer must prove that the existing wooden pole is structurally sound and capable of handling the additional small cell equipment load without additional guy-wires.</p>	<p>Combination small cell and streetlight poles shall be installed in all situations that require the removal of an existing streetlight pole (wood, metal, fiberglass, etc.) and replacement with a new combination pole. No externally mounted equipment will be allowed by the Town.</p>	<p>A privately-owned freestanding pole will be allowed by the Town in situations where no existing streetlight of other appropriate location is adjacent to the proposed freestanding small cell location.</p>

DRAWING NOT TO SCALE

Typical Small Cell Installations

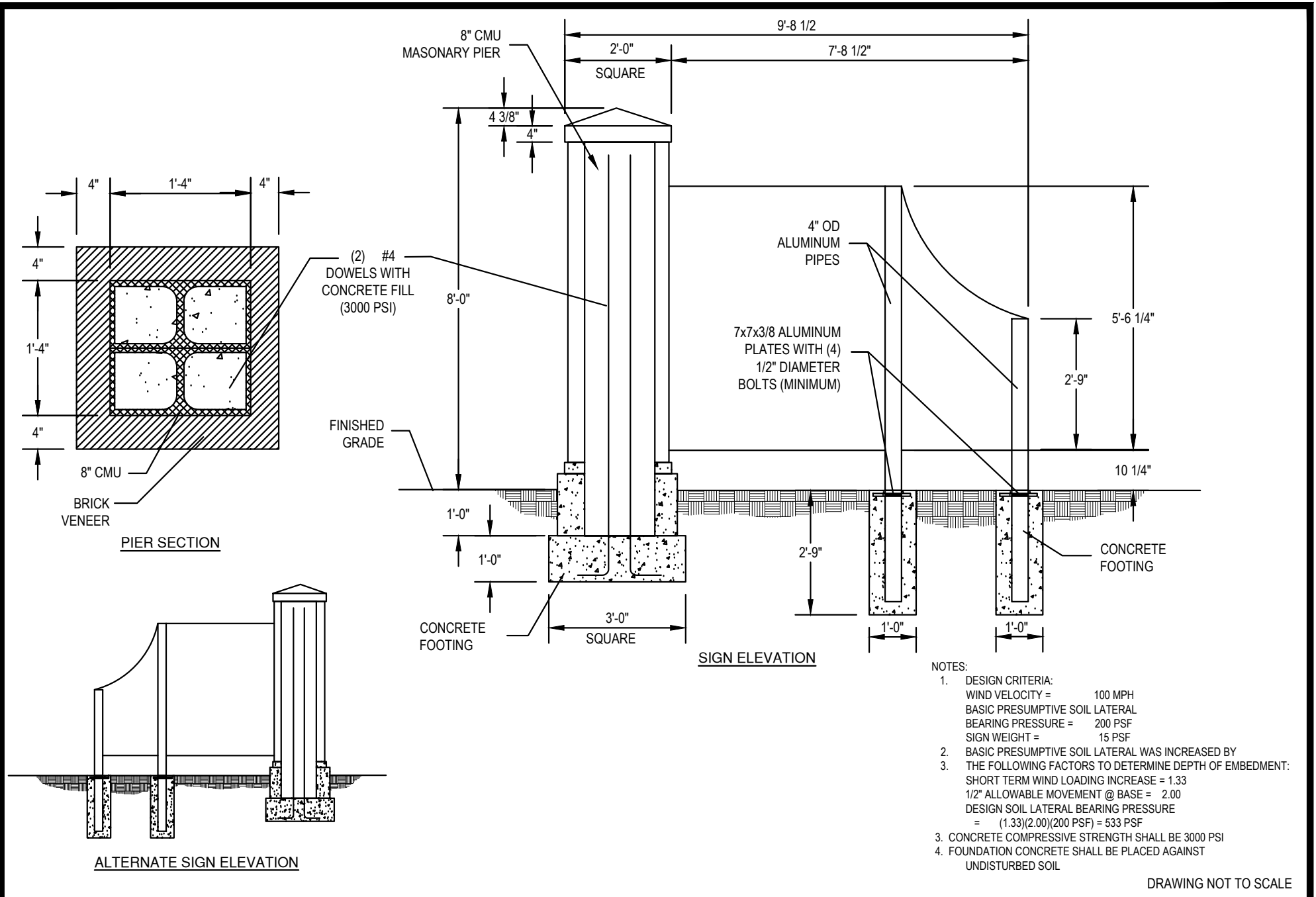
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS368

DATE REVISIONS

10/14/20





PRIMARY GATEWAY SIGN FOUNDATION

TOWN OF HOLLY SPRINGS

STANDARD DETAIL NUMBER: HS369

DATE REVISIONS

10/26/20
11/19/24

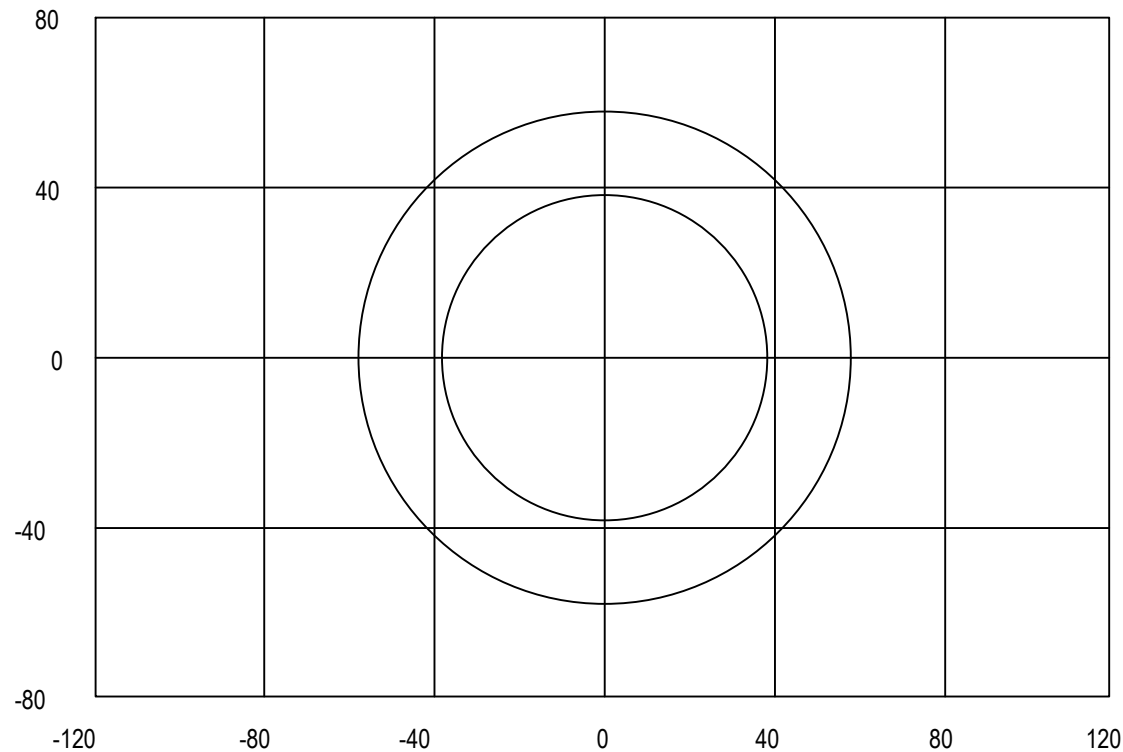


ISOFOOTCANDLE CURVES

FIXTURE: MITCHELL LED w/TOP HAT, R/B/M
MOUNTING HEIGHT: 16FT
LIGHT SOURCE: 50W LED'S, 4000K
PATTERN: TYPE V, B3-U3-G3

ASSY # LFIX-MTCHTR-LED-50-BLK-MULTIV-PVT-P

NOTE: THE FOOTCANDLE READINGS BELOW ARE MAINTAINED AND HAVE BEEN DEPRECIATED FOR LAMP LUMEN DEPRECIATION AND LUMINAIRE DIRT DEPRECIATION, FOR INITIAL FOOTCANDLES, DIVIDE THE READINGS BELOW BY .85.



ML 4A



NOTE:
ALL PEDESTRIAN LIGHTS
ARE TO BE PLACED AT
THE ROW LINE.

16' STYLE V
+LPOLE-SS-AB-AL-16FT-BLK-3T-PVT-P

16' STYLE VIII BREAKAWAY POLE
+LPOLE-SB-AB-AL-16FT-BWAY-RECT-HOLLY-P

DRAWING NOT TO SCALE

DOWNTOWN DISTRICT PEDESTRIAN LIGHT FIXTURE

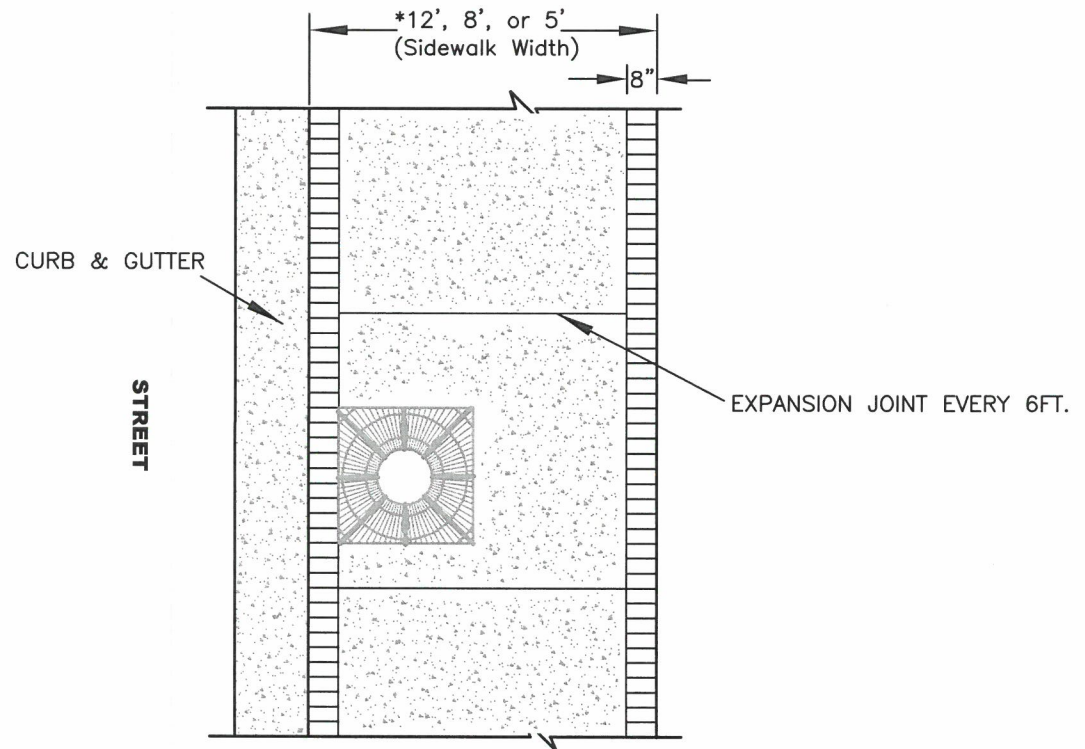
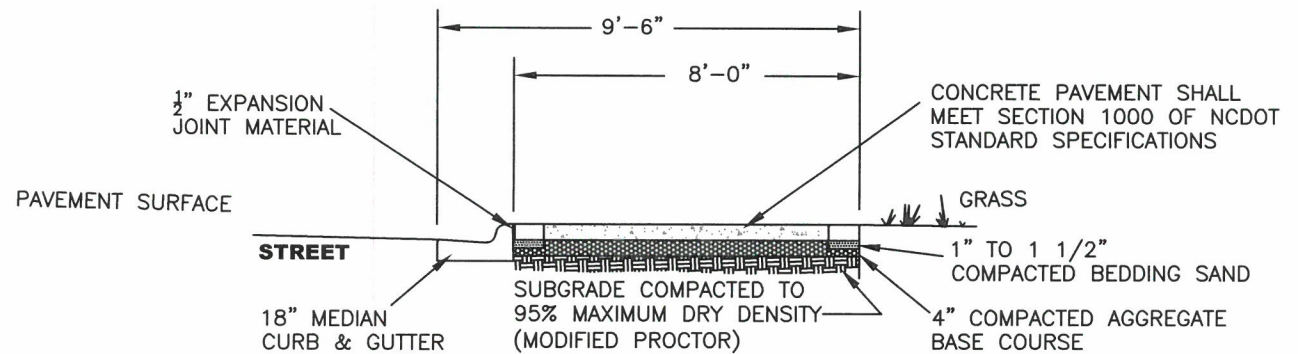
TOWN OF HOLLY SPRINGS

STANDARD DETAIL NUMBER: HS370

DATE REVISIONS

9/16/20
11/19/24





NOTES:

1. SCATTER SAND OR SCREENINGS OVER COMPLETED WORK AND SWEEP INTO CRACKS.
2. BRICK PAVERS SHOULD CONFORM TO REQUIREMENTS OF ASTM C902-95.
3. EACH STAGE OF CONSTRUCTION WILL REQUIRE INSPECTION BY TOHS INSPECTOR.
4. TOWN OF HOLLY SPRINGS PAVER STANDARD IS 2-1/4" x 4" x 8" PINEHALL PATHWAY RED/FLASH CLAY PAVER.
5. COLOR SAMPLE MUST BE APPROVED BY TOHS BEFORE INSTALLATION.
6. IN AREAS WHERE SIDEWALK WIDTH CHANGES A 2:1 RATIO MUST APPLY.

*SIDEWALK WIDTH MAY VARY.
CONCRETE BANDS MUST REMAIN 1' AND
BRICK PAVER DEPTH MUST REMAIN 10'

DRAWING NOT TO SCALE

8' BRICK PAVER BAND SIDEWALK

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

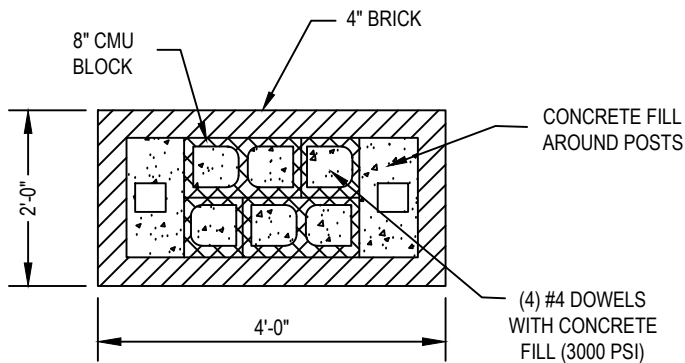
STANDARD DETAIL NUMBER: HS372

DATE

REVISIONS

9/17/20

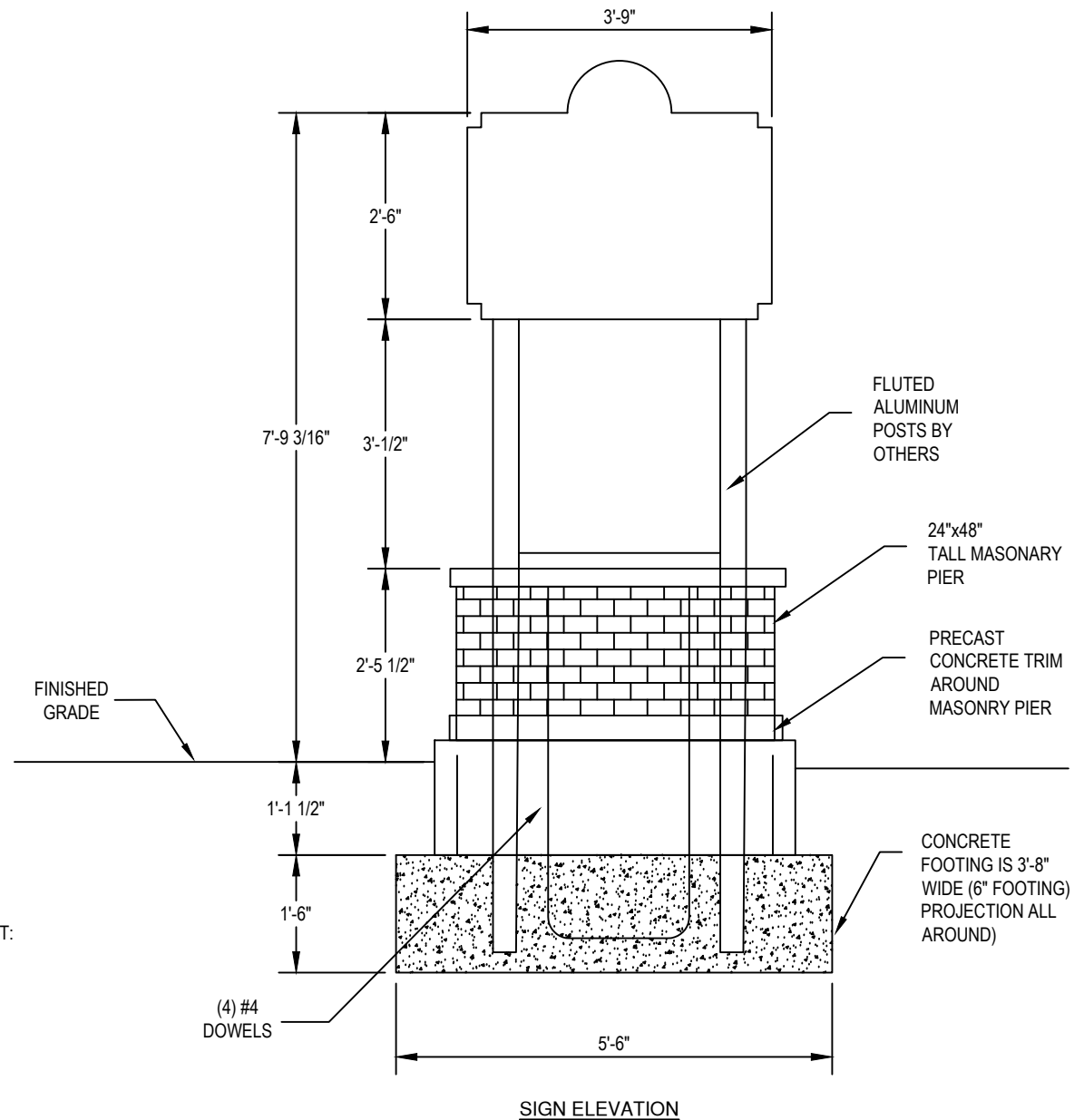




PIER SECTION

NOTES:

- DESIGN CRITERIA:
WIND VELOCITY = 100 MPH
BASIC PRESUMPTIVE SOIL LATERAL BEARING PRESSURE = 200 PSF
SIGN WEIGHT = 15 PSF
- BASIC PRESUMPTIVE SOIL LATERAL WAS INCREASED BY
- THE FOLLOWING FACTORS TO DETERMINE DEPTH OF EMBEDMENT:
SHORT TERM WIND LOADING INCREASE = 1.33
1/2" ALLOWABLE MOVEMENT @ BASE = 2.00
DESIGN SOIL LATERAL BEARING PRESSURE
= (1.33)(2.00)(200 PSF) = 533 PSF
- CONCRETE COMPRESSIVE STRENGTH SHALL BE 3000 PSI
- FOUNDATION CONCRETE SHALL BE PLACED AGAINST UNDISTURBED SOIL



DRAWING NOT TO SCALE

SECONDARY GATEWAY SIGN FOUNDATION

TOWN OF HOLLY SPRINGS

STANDARD DETAIL NUMBER: HS373

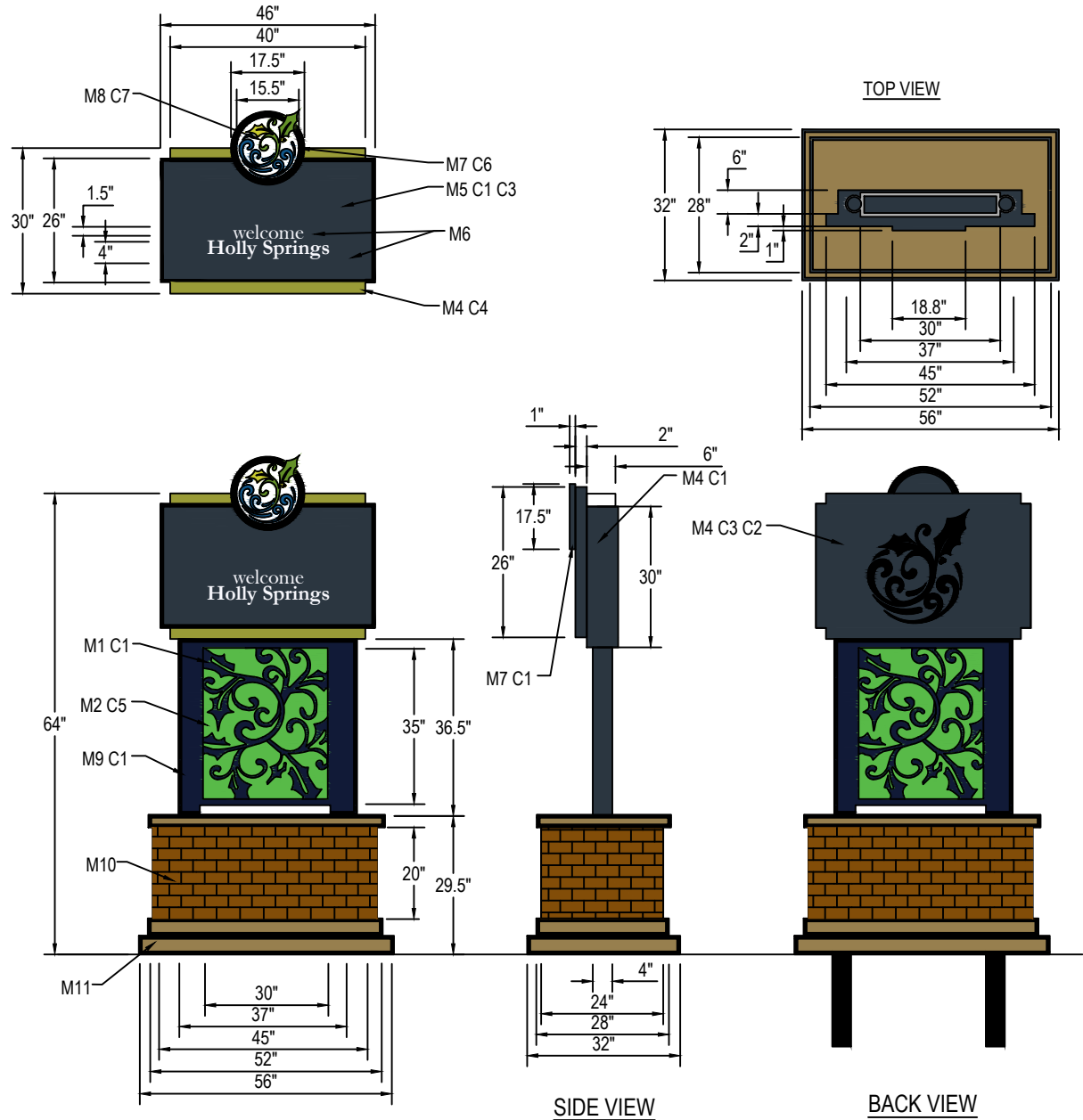
DATE REVISIONS

10/26/20
11/19/24



NOTES:

1. "WELCOME" font to be Futura Bk BT
2. "HOLLY SPRINGS" font to be Garamond MT Regular
3. Sign face to face oncoming traffic



- M1 .1875" Thick Aluminum
M2 .177" Clear Polycarbonate
M3 Fabricated Aluminum Cabinet: 4" deep
(suspended between posts)
M4 Fabricated Aluminum 6" deep
background panel
M5 Fabricated Aluminum 2" deep cabinet
cut through copy
M6 .188" White Acrylic
M7 25mm (1") pvc
M8 .375" thick acrylic; flush mount
M9 4" diameter fluted post
M10 Brick - Williamsburg #60
M11 Precast - Wheat

- C1 Paint - Black; semi-gloss
□ C2 Paint - Anti Graffiti Clear Coat; back
of cabinet only
■ C3 Paint - Blue PMS 7469C; semi-gloss
■ C4 Paint - Gold PMS 585C; semi-gloss
■ C5 Paint - Translucent Green PMS 7490C;
subsurface
□ C6 Paint - White; semi-gloss
□ C7 Paint - custom airbrush logo

Illumination: Pure White LED illumination (green panels and
text on sign panel) 100v - 277v Variable
12V Ip68 - Waterproof - Power Supplies

DRAWING NOT TO SCALE

SECONDARY GATEWAY SIGN

TOWN OF HOLLY SPRINGS

STANDARD DETAIL NUMBER: HS374

DATE REVISIONS

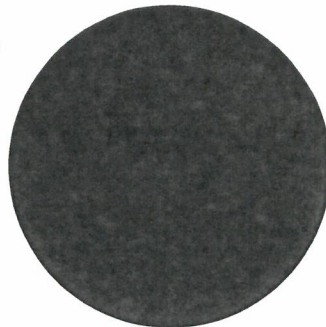
10/30/20
11/19/24



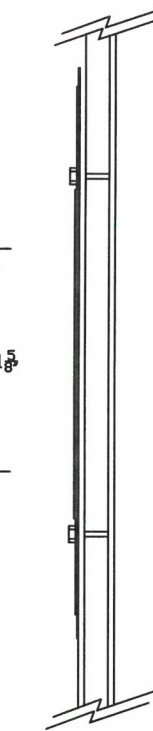


NOTES:

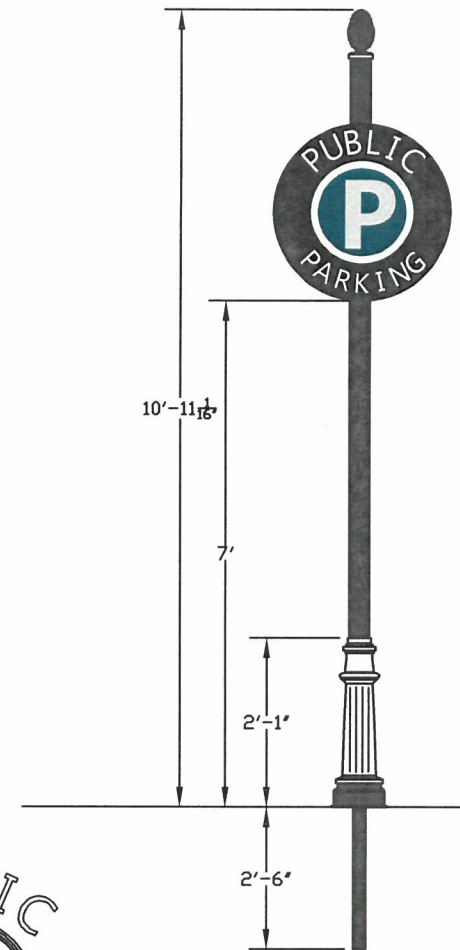
1. Post and Panel Parking Lot ID(A): Quantity 2 aluminum panels are $\frac{1}{8}$ " thick each with surface applied cut aluminum graphics—they are cut out of $\frac{1}{8}$ " thick aluminum and have surface applied computer cut self adhesive reflective vinyl graphics. Each face is mechanically attached to an ornamental powdercoated post with a matching base and finial.
2. Graphics Method: Router cut aluminum letters and disk surface and edges painted, computer cut self adhesive vinyl graphics for white portions.
2. Letter Style: Edmondsans Medium (Bold)
4. Graphics Colors: 5700-10 Engineer Grade Reflective white letters, P, and circle rings. PMS 7469C blue green inner circle. Edges of white graphics are painted white. Edges of blue green are painted blue green.
5. Background Method: Panels and graphics are surface painted. Post, base, finial and hardware are all powdercoated.
6. Background Color: Gloss black (Front and back of panel)
7. Mounting: Mechanically attached to a 3" smooth round post with a decorative base and cast pineapple finial. Post, base, finial and attachment hardware to be powdercoated.
(2) 1-1/2"x 1/2"x 1/2"x 24" U-channel spacers are painted and used to keep signs stable. Hardware is (2) 18-8 Stainless Steel Hex Head Screw, $\frac{5}{8}$ "-18 Thread Size, 4-1/2" Long, Fully Threaded, each with a nylon washer and (2) 18-8 Stainless Steel Nylon-Insert Locknut, $\frac{5}{8}$ "-18 Thread Size. Base and finial are Imperial Mailbox Systems Series D #8 Base and Series D #7 Finial.



Exploded View



Section View



Post View

DRAWING NOT TO SCALE

PUBLIC PARKING SIGN

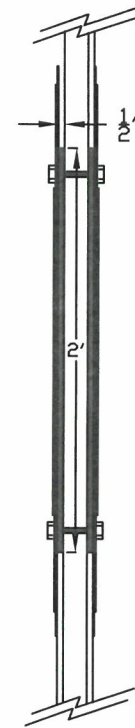
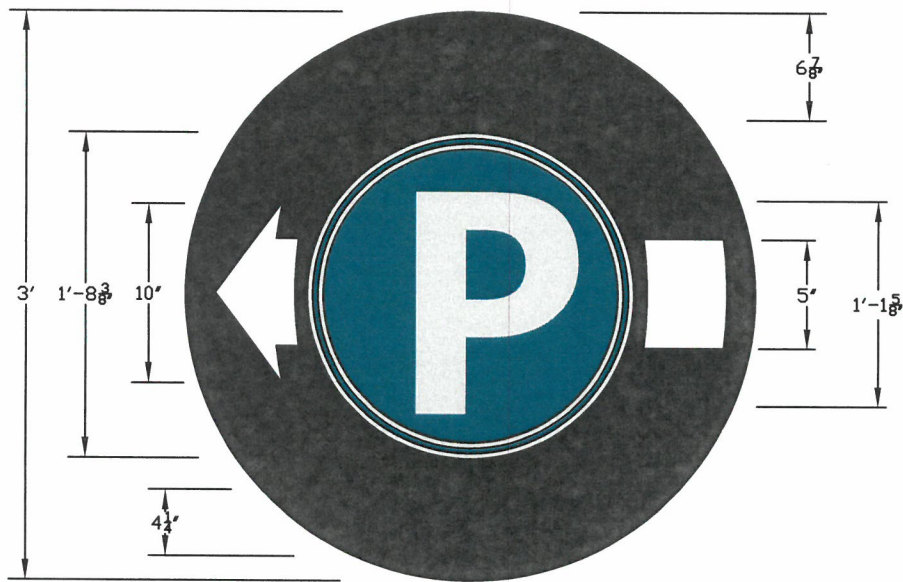
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS375

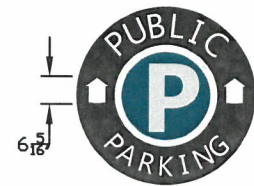
DATE REVISIONS

11/4/20

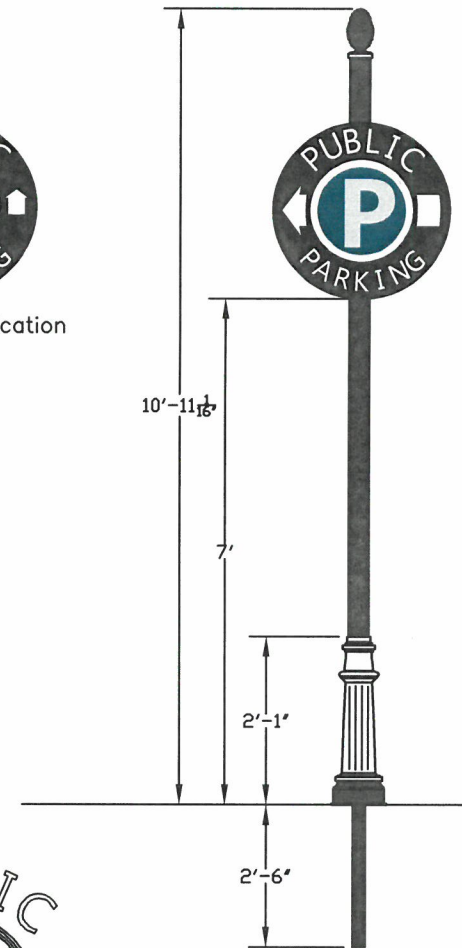




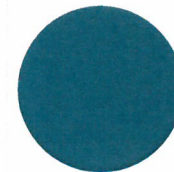
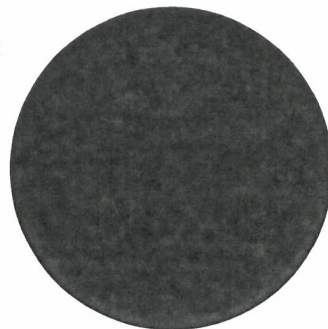
Section View



Up Arrow Application



Post View



Exploded View

NOTES:

1. Post and Panel Parking Lot ID(A): Quantity 2 aluminum panels are $\frac{1}{8}$ " thick each with surface applied cut aluminum graphics—they are cut out of $\frac{1}{8}$ " thick aluminum and have surface applied computer cut self adhesive reflective vinyl graphics. Each face is mechanically attached to an ornamental powdercoated post with a matching base and finial.
2. Graphics Method: Router cut aluminum letters and disk surface and edges painted, computer cut self adhesive vinyl graphics for white portions.
3. Letter Style: Edmondsans Medium (Bold)
4. Graphics Colors: 5700-10 Engineer Grade Reflective white letters, P, and circle rings. PMS 7469C blue green inner circle. Edges of white graphics are painted white. Edges of blue green are painted blue green.
5. Background Method: Panels and graphics are surface painted. Post, base, finial and hardware are all powdercoated.
6. Background Color: Gloss black (Front and back of panel)
7. Mounting: Mechanically attached to a 3" smooth round post with a decorative base and cast pineapple finial. Post, base, finial and attachment hardware to be powdercoated. (2) 1-1/2" x 1/2" x 1/2" x 24" U-channel spacers are painted and used to keep signs stable. Hardware is (2) 18-8 Stainless Steel Hex Head Screw, $\frac{5}{8}$ "-18 Thread Size, 4-1/2" Long, Fully Threaded, each with a nylon washer and (2) 18-8 Stainless Steel Nylon-Insert Locknut, $\frac{5}{8}$ "-18 Thread Size. Base and finial are Imperial Mailbox Systems Series D #8 Base and Series D #7 Finial.

DRAWING NOT TO SCALE

PUBLIC PARKING ARROW SIGN

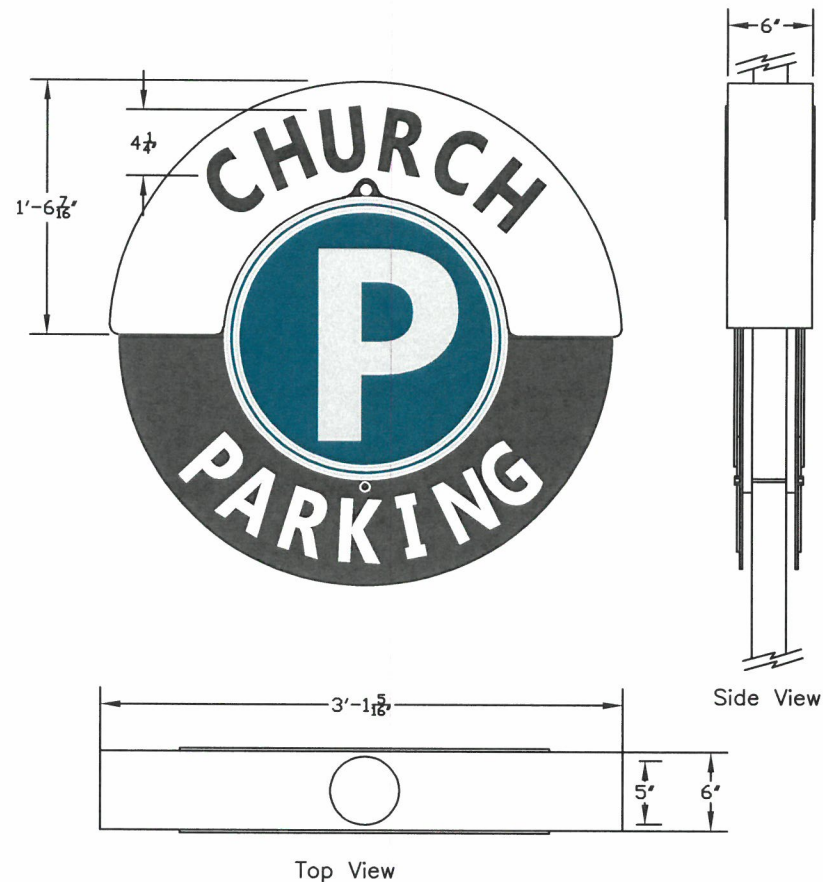
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS376

DATE REVISIONS

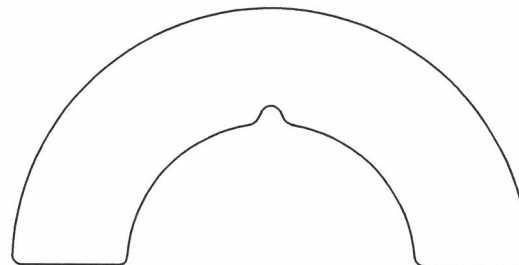
11/4/20





NOTES:

1. Sign Specifications: Fabricated aluminum cover with surface applied cut acrylic letters. Inside of cover is lined with $\frac{1}{4}$ " thick foam to keep the sign underneath from being damaged.
2. Graphics Method: Router cut $\frac{1}{4}$ " thick acrylic letters surface and edges painted.
3. Letter Style: Edmondsans Medium (Bold)
4. Graphics Colors: Black
5. Background Method: Panels and graphics are surface painted.
6. Background Color: Gloss white
7. Mounting: Hole in the top allows for cover to slide down over top of finial and both faces of existing sign. $\frac{1}{4}$ " thick foam (no thicker) lines the inside of the cover so that it won't damage the faces of the existing sign when put on. Letters are attached to the face of the cover using VHB or Bron tape.



Exploded View

DRAWING NOT TO SCALE

CHURCH PARKING SIGN

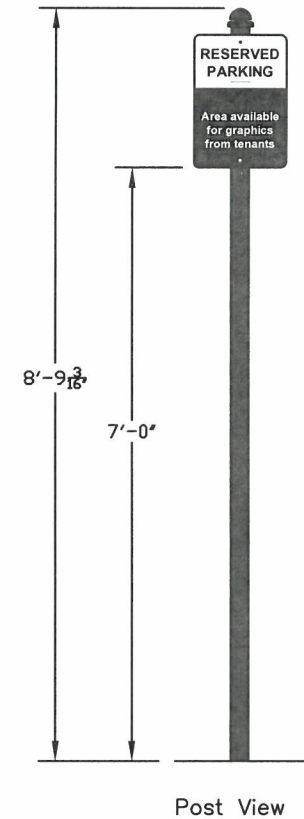
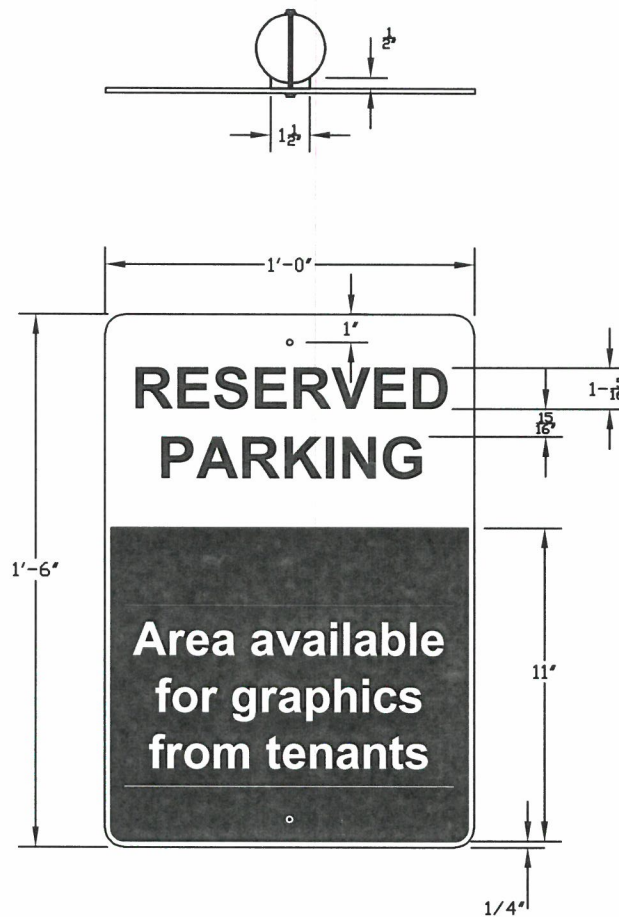
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS377

DATE REVISIONS

11/6/20





Post View

NOTES:

1. Sign Specifications: $\frac{3}{8}$ " thick surface painted aluminum panel with surface applied computer cut self-adhesive reflective vinyl graphics. Each face is mechanically attached to 3" round powdercoated post that has a half dome cap.
2. Graphics Method: Computer cut self-adhesive vinyl graphics
3. Letter Style: Arial bold, Arial regular, Arial italic, Per artwork
4. Graphics Colors: 5700-10 Engineer Grade Reflective white
5. Background Method: Panel is surface painted. Post, base, finial and hardware are all powdercoated.
6. Background Color: Gloss black (front and back of panel)
7. Mounting: Mechanically attached to a 3" round powdercoated post with a half dome cap. All attachment hardware to be powdercoated as well. $1\frac{1}{2}$ " x $\frac{1}{2}$ " x 16" U-Channel spacer is painted and used to keep sign stable. Hardware is (2) 18-8 Stainless Steel Hex Head Screw, $\frac{5}{16}$ "-18 Thread Size, 3-3/4" Long, each with a nylon washer and (2) 18-8 Stainless Steel Nylon-Insert Locknut, $\frac{5}{16}$ "-18 Thread Size.

Exploded View

DRAWING NOT TO SCALE

RESERVED PARKING SIGN

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS378

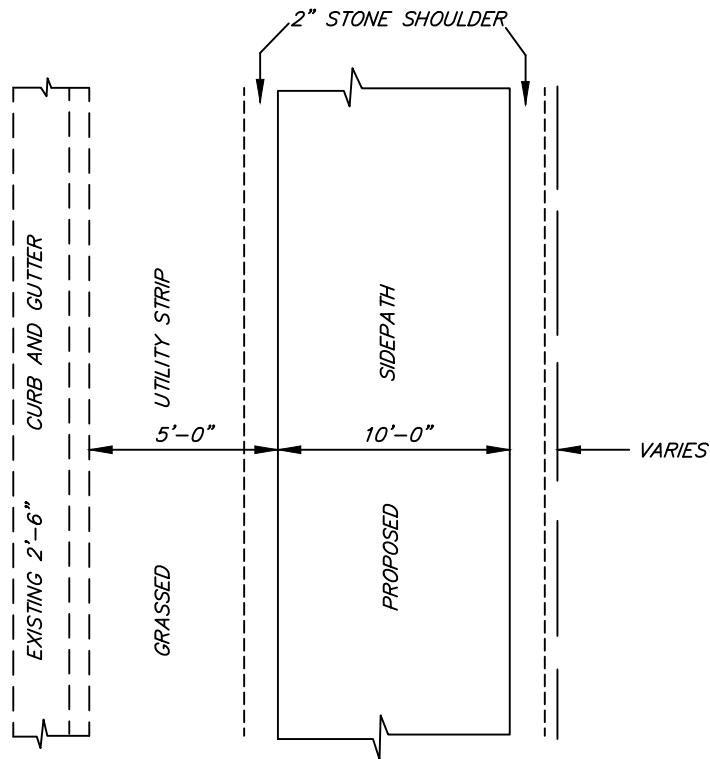
DATE REVISIONS

11/13/20

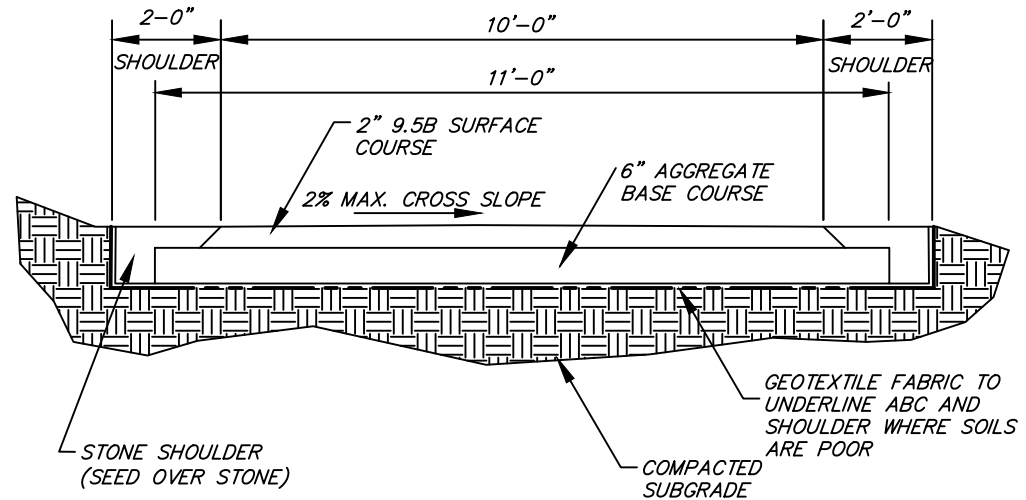


NOTES:

1. ASPHALT SIDEPATH CONSTRUCTION TO MEET TOWN STANDARD DETAIL HS340



PLAN VIEW



TYPICAL SECTION

DRAWING NOT TO SCALE

ASPHALT SIDEPATH

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS379

DATE REVISIONS

3/1/21



1. SIDEPATH SHALL BE 6" DEPTH AT ALL DRIVEWAYS.
2. SIDEPATH SHALL BE 6" DEPTH AT ALL HANDICAP RAMPS.
3. TRANSVERSE EXPANSION JOINT TO BE A MAX OF 50 FEET.

EXISTING 2'-6" CURB AND GUTTER

GRASS UTILITY STRIP

1/2" / ft.

1/4" / ft.

PROPOSED SIDEPATH (CONC. 3000 PSI)

COMPACTED SOIL TO A DENSITY OF NO LESS THAN 95%

Diagram illustrating a joint filler detail. The joint filler is shown with a 1/8" RAD. fillet and a 1/2" width. The filler thickness is 1/4". The side path surface is indicated. Dimensions include 4" and 1/8". Labels include SIDE PATH SURFACE and JOINT FILLER.

DRAWING NOT TO SCALE

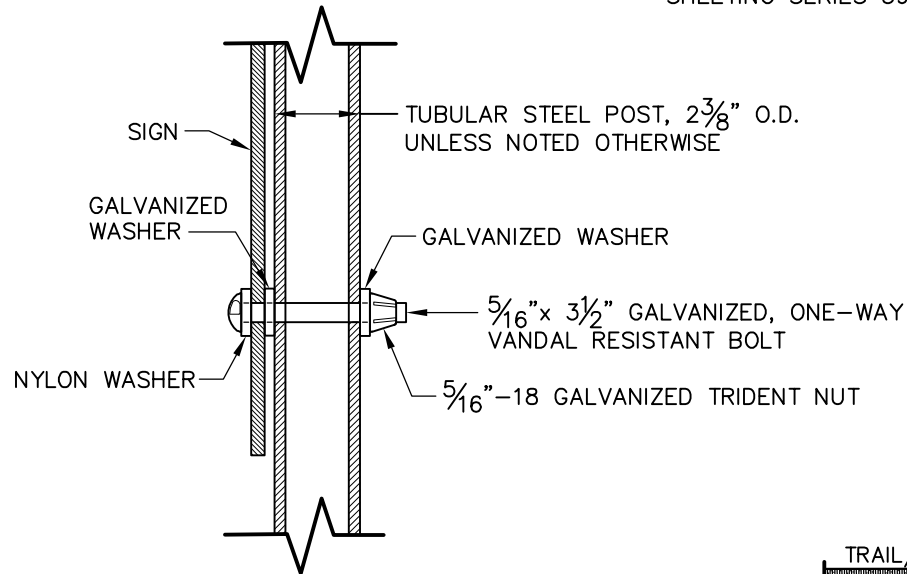
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

DATE	REVISIONS
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3/1/21



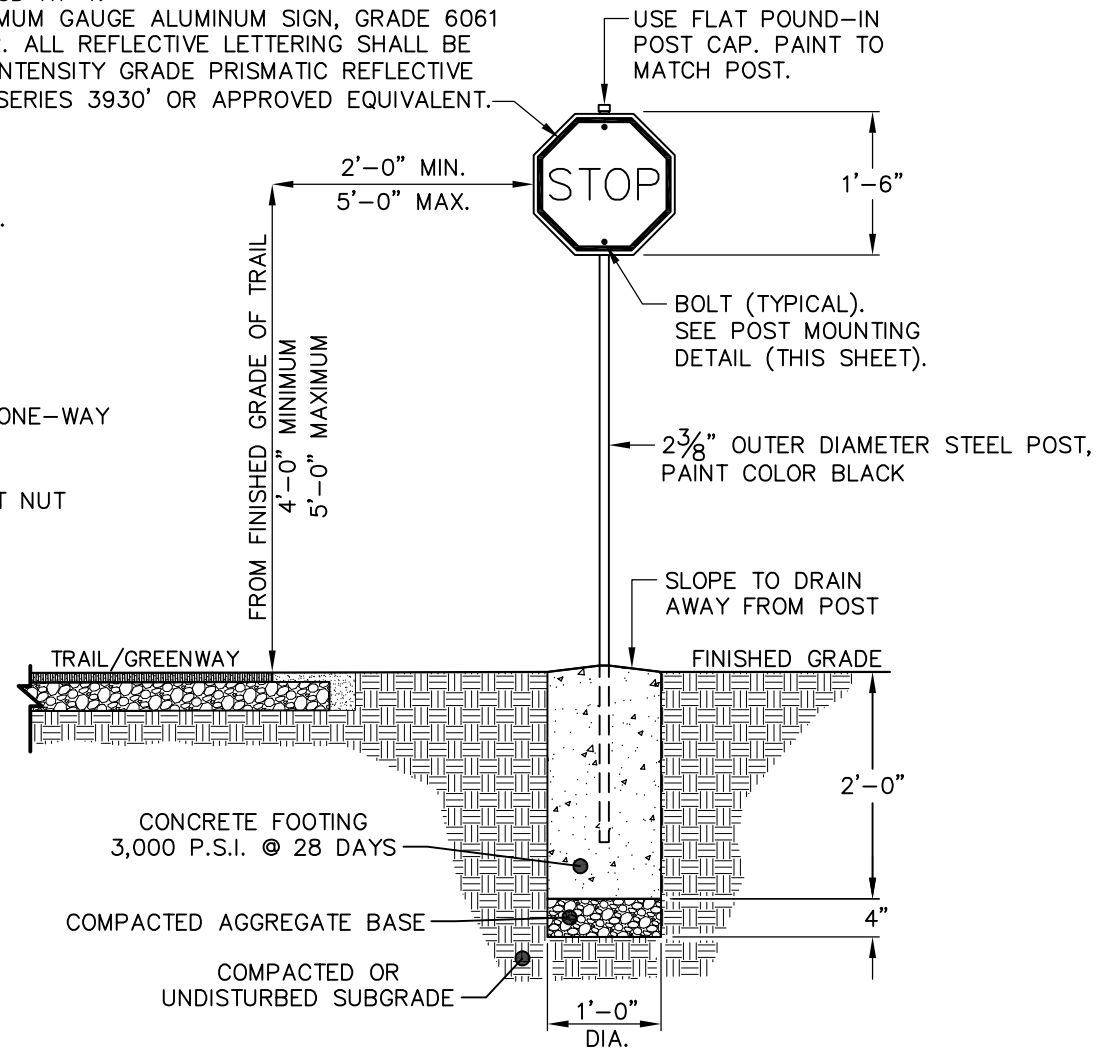
SIGN: MUTCD R1-1.
0.125 MINIMUM GAUGE ALUMINUM SIGN, GRADE 6061
OR BETTER. ALL REFLECTIVE LETTERING SHALL BE
'3M HIGH INTENSITY GRADE PRISMATIC REFLECTIVE
SHEETING SERIES 3930' OR APPROVED EQUIVALENT.



POST MOUNTING DETAIL

NOTES:

1. ALL VISIBLE WELDS TO BE CONTINUOUS AND GROUND TO PROVIDE A SMOOTH SURFACE.
3. SIGN SHALL MEET CURRENT **MUTCD** REQUIREMENTS FOR COLOR AND REFLECTION.



FRONT VIEW

DRAWING NOT TO SCALE

STANDARD TRAIL STOP SIGN

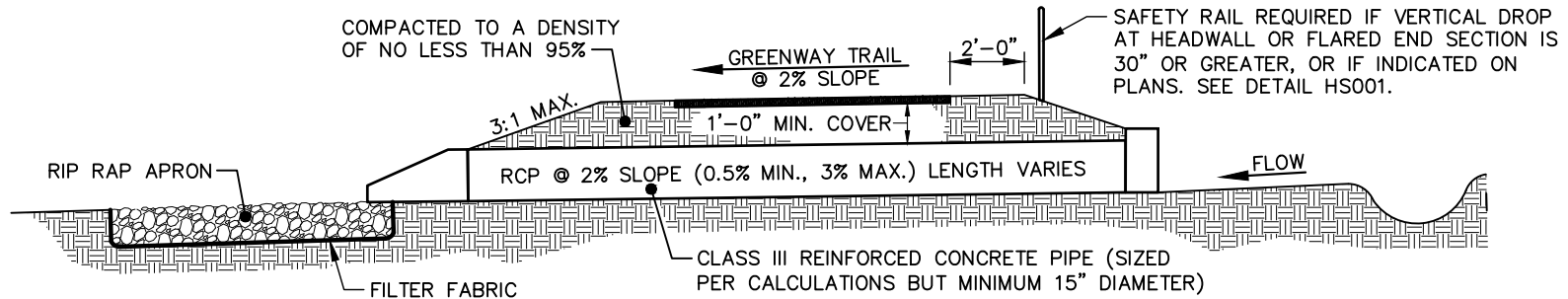
STANDARD DETAIL NUMBER: HS382

DATE REVISIONS

6/23/20

TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

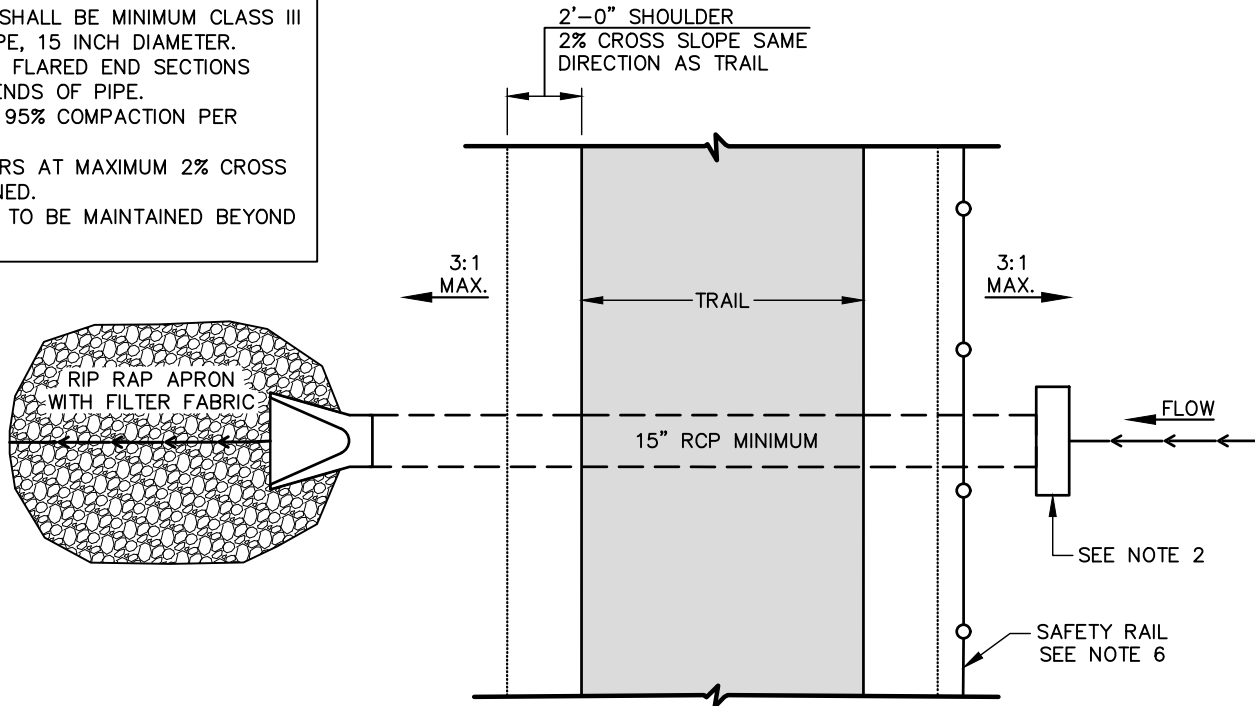




PROFILE VIEW

NOTES:

1. PIPE SHALL BE SIZED BY ENGINEER WITH CALCULATIONS INCLUDED IN PLANS, BUT SHALL BE MINIMUM CLASS III REINFORCED CONCRETE PIPE, 15 INCH DIAMETER.
2. HEADWALLS, ENDWALLS, OR FLARED END SECTIONS SHALL BE INSTALLED AT ENDS OF PIPE.
3. BACKFILL PIPE TRENCH TO 95% COMPACTION PER AASHTO METHOD T99.
4. 2 FOOT GRASSED SHOULDERS AT MAXIMUM 2% CROSS SLOPE SHALL BE MAINTAINED.
5. MAXIMUM 3:1 SIDE SLOPES TO BE MAINTAINED BEYOND SHOULDERS.



PLAN VIEW

DRAWING NOT TO SCALE

GREENWAY CULVERT

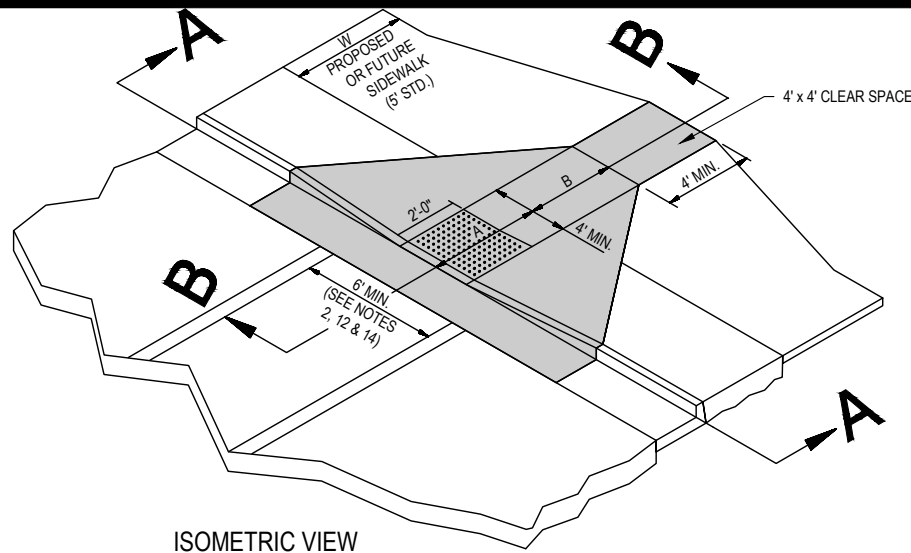
TOWN OF HOLLY SPRINGS ENGINEERING DEPARTMENT

STANDARD DETAIL NUMBER: HS383

DATE REVISIONS

1/3/22



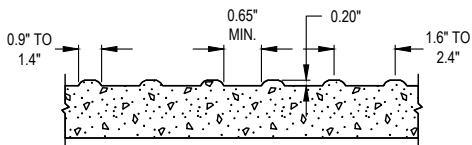
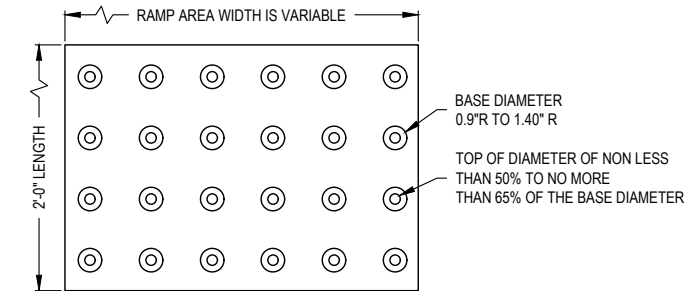


ISOMETRIC VIEW

PAY LIMITS FOR CURB RAMP

NOTES:

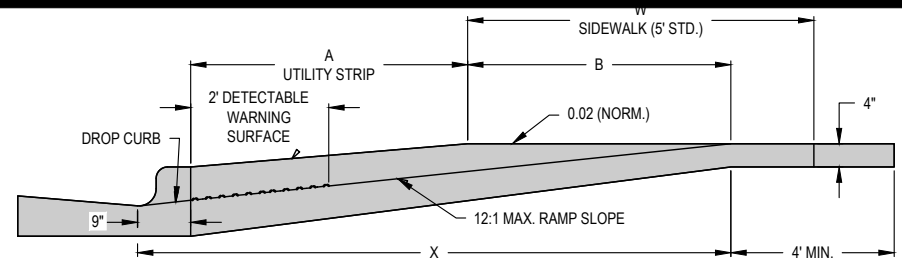
1. DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF RAMP FLOOR AS SHOWN ON THE DETAILS
2. DETECTABLE WARNING SURFACE IS REQUIRED TO BE YELLOW AND SHOULD COVER THE ENTIRE RAMP.



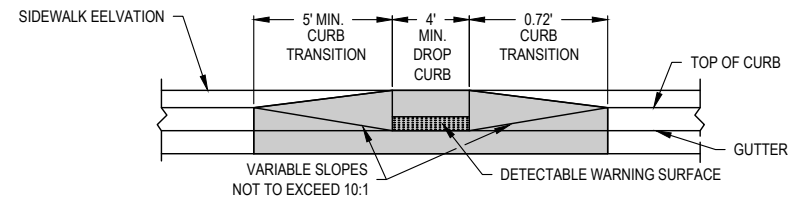
DETECTABLE WARNING SURFACE

W	A	W+A+9"	X	B
5'	0.0'	5.8'	5.8'	5.0' **
6'	0.0'	6.8'	6.8'	6.0' **
7'	0.0'	7.8'	7.3'	6.5' **
8'	0.0'	8.8'	7.3'	6.5' **
5'	2.0'	7.8'	7.8'	5.0'
5'	2.5'	8.3'	8.1'	4.8'
5'	3.0'	8.8'	8.3'	4.4'
5'	3.5'	9.3'	8.4'	4.1'
5'	4.0'	9.8'	8.6'	3.8'
5'	4.5'	10.3'	8.7'	3.4'
5'	5.0'	10.8'	8.9'	3.1'

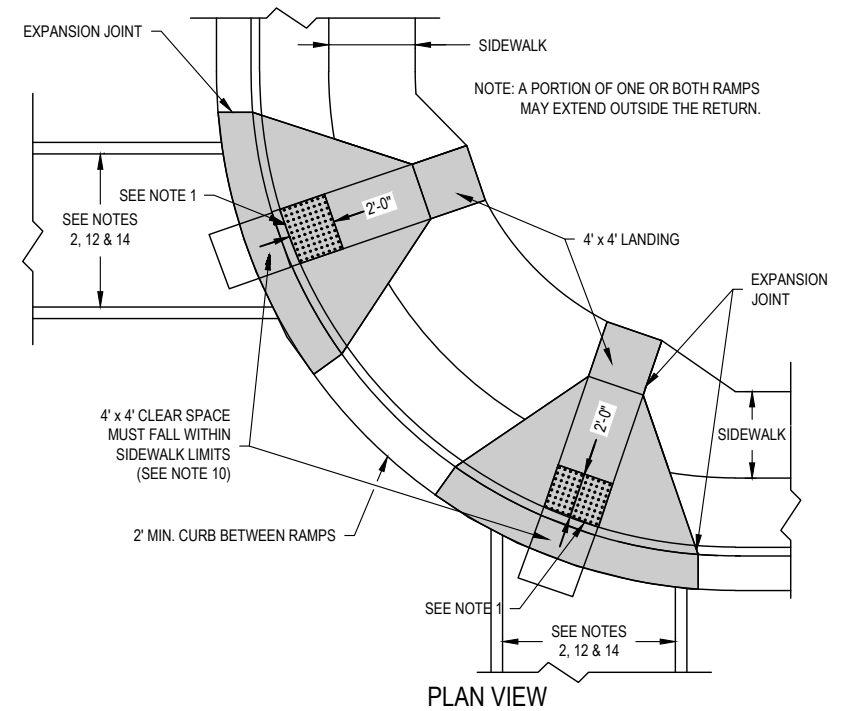
$B = X - (A + 9")$
 B = DISTANCE FROM FRONT EDGE OF SIDEWALK TO BACK POINT OF 12:1 (8.33%) SLOPE.
 * BACK OF SIDEWALK DROP REQUIRED FOR ALL SIDEWALK SLOPES.
 ** BACK OF SIDEWALK DROP REQUIRED FOR ALL SIDEWALK SLOPES 0.04.



SECTION B-B



SECTION A-A



PLAN VIEW

CURB RAMP - PROPOSED CURB AND GUTTER

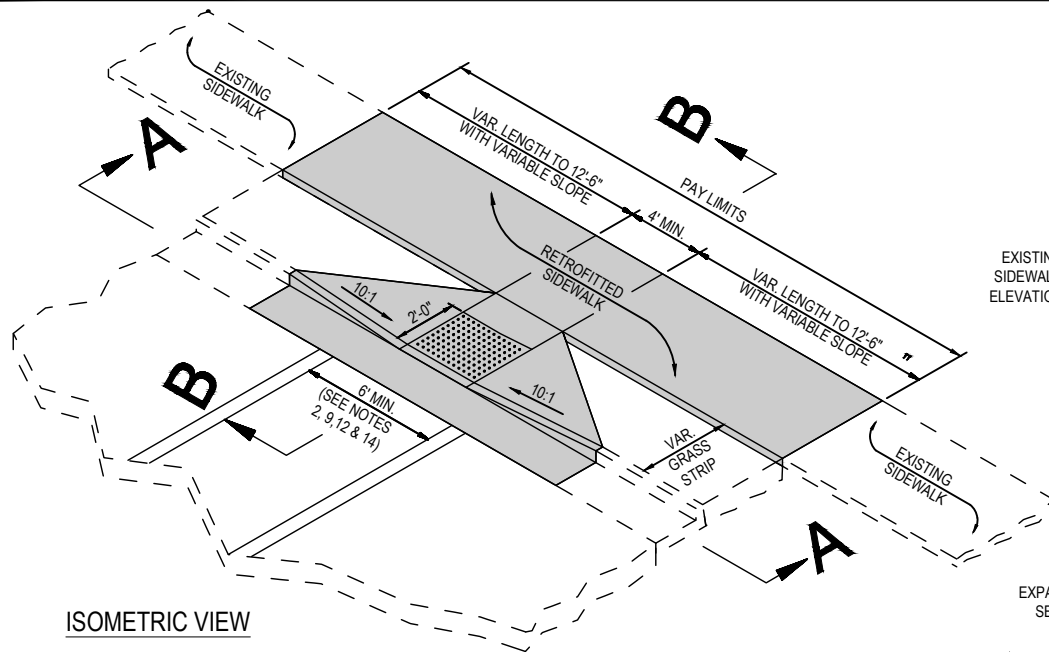
TOWN OF HOLLY SPRINGS

STANDARD DETAIL NUMBER: HS384

DATE REVISIONS

12/19/23

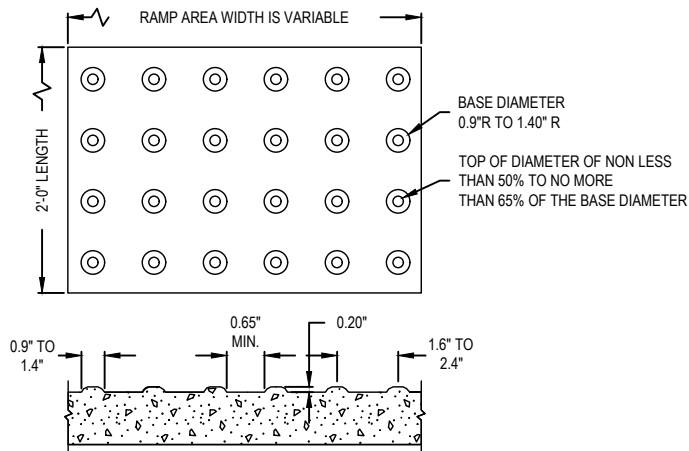




ISOMETRIC VIEW

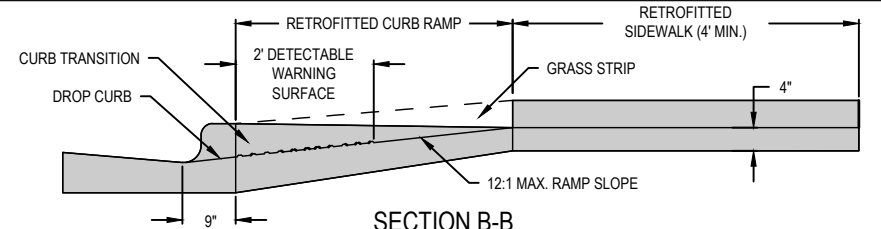
NOTES:

1. DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF RAMP FLOOR AS SHOWN ON THE DETAILS
2. DETECTABLE WARNING SURFACE IS REQUIRED TO BE YELLOW AND SHOULD COVER THE ENTIRE RAMP.

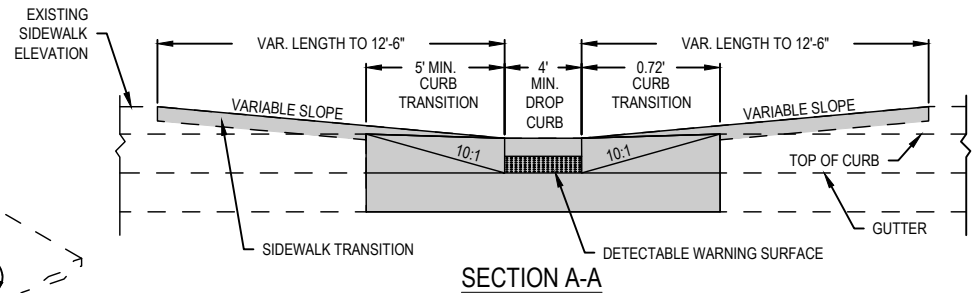


DETECTABLE WARNING SURFACE

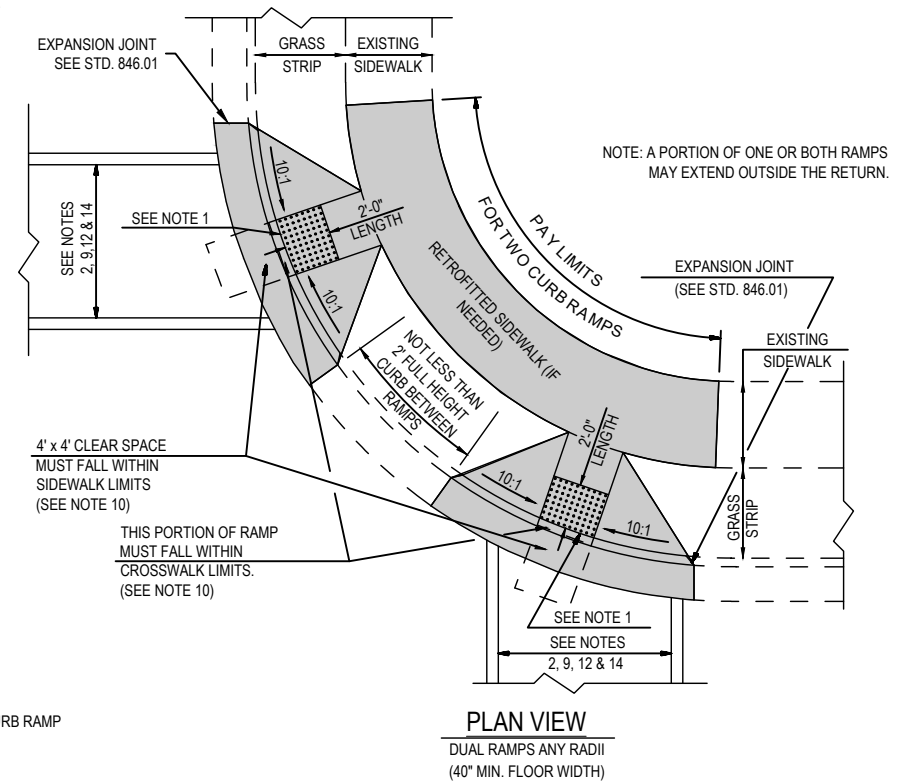
 PAY LIMITS FOR CURB RAMP



SECTION B-B



SECTION A-A



CURB RAMP AND EXISTING SIDEWALK WITH GRASS STRIP

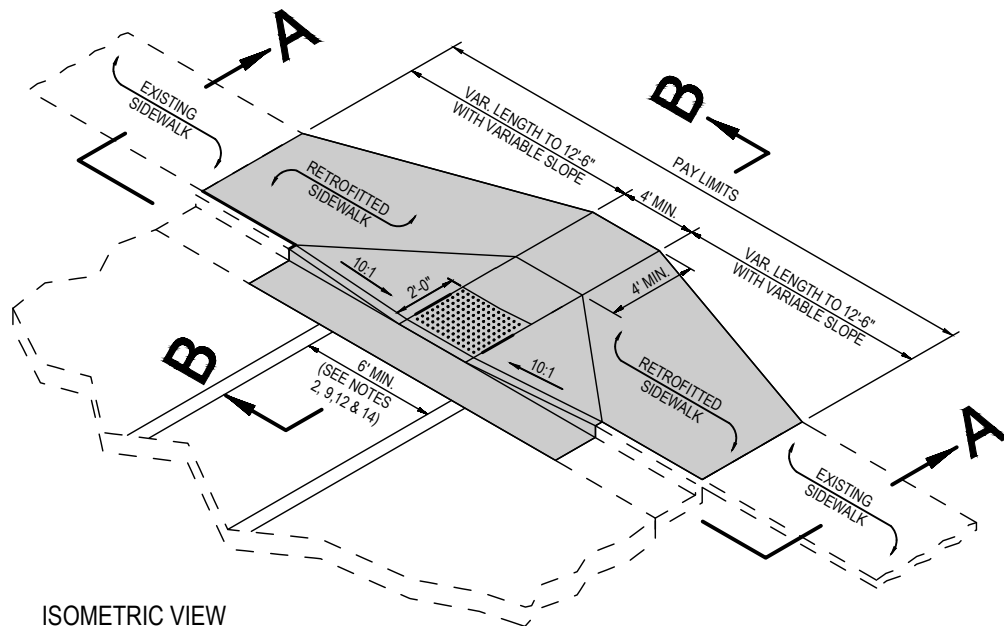
TOWN OF HOLLY SPRINGS

STANDARD DETAIL NUMBER: HS385

DATE REVISIONS

12/19/23

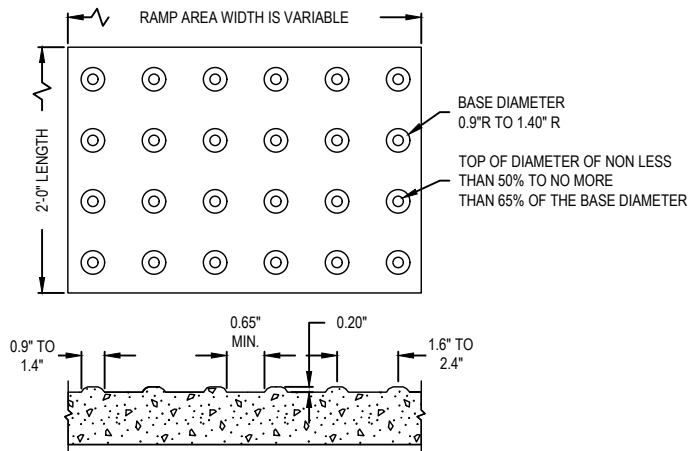




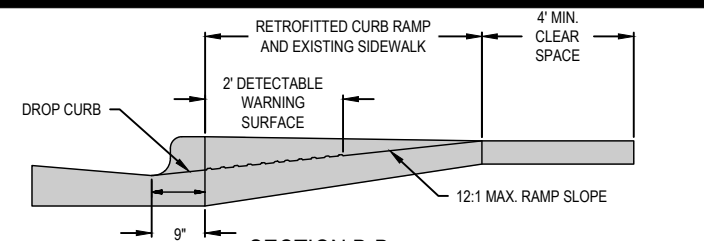
ISOMETRIC VIEW

NOTES:

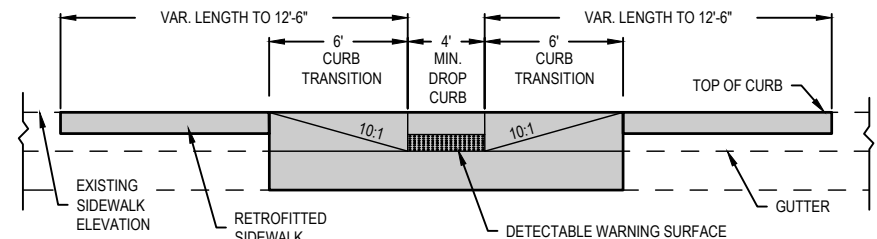
1. DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF RAMP FLOOR AS SHOWN ON THE DETAILS
2. DETECTABLE WARNING SURFACE IS REQUIRED TO BE YELLOW AND SHOULD COVER THE ENTIRE RAMP.



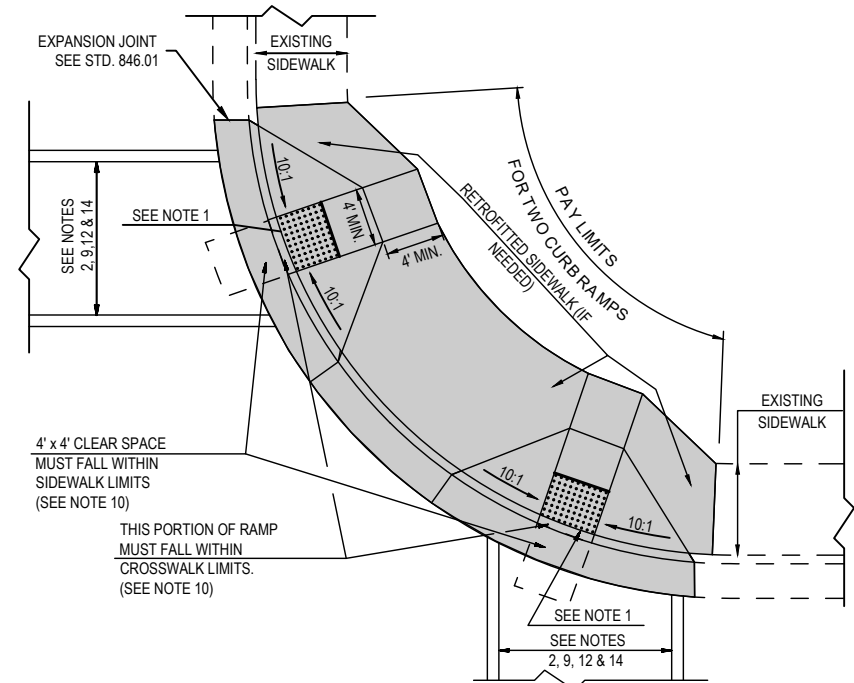
DETECTABLE WARNING SURFACE



SECTION B-B



SECTION A-A



PLAN VIEW

DUAL RAMPS ANY RADII
(40" MIN. FLOOR WIDTH)

CURB RAMP AND EXISTING SIDEWALK ADJACENT TO CURB

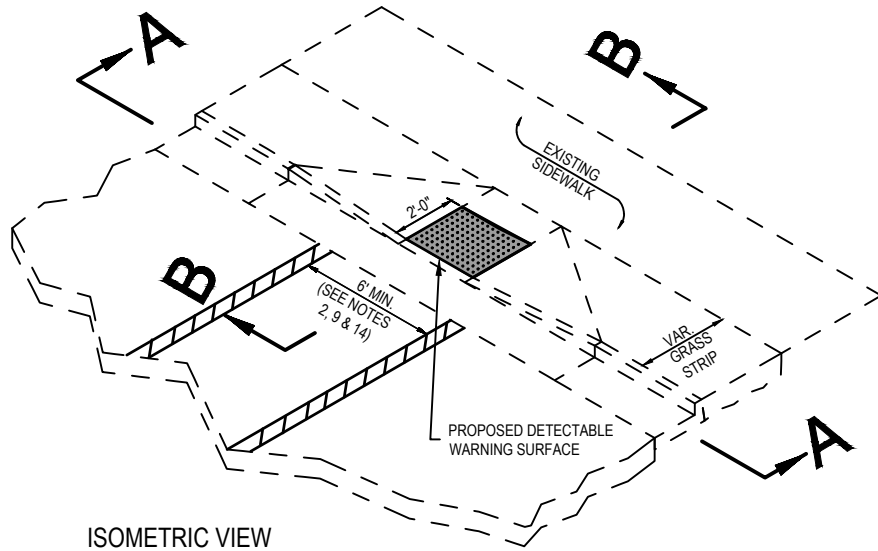
TOWN OF HOLLY SPRINGS

STANDARD DETAIL NUMBER: HS386

DATE REVISIONS

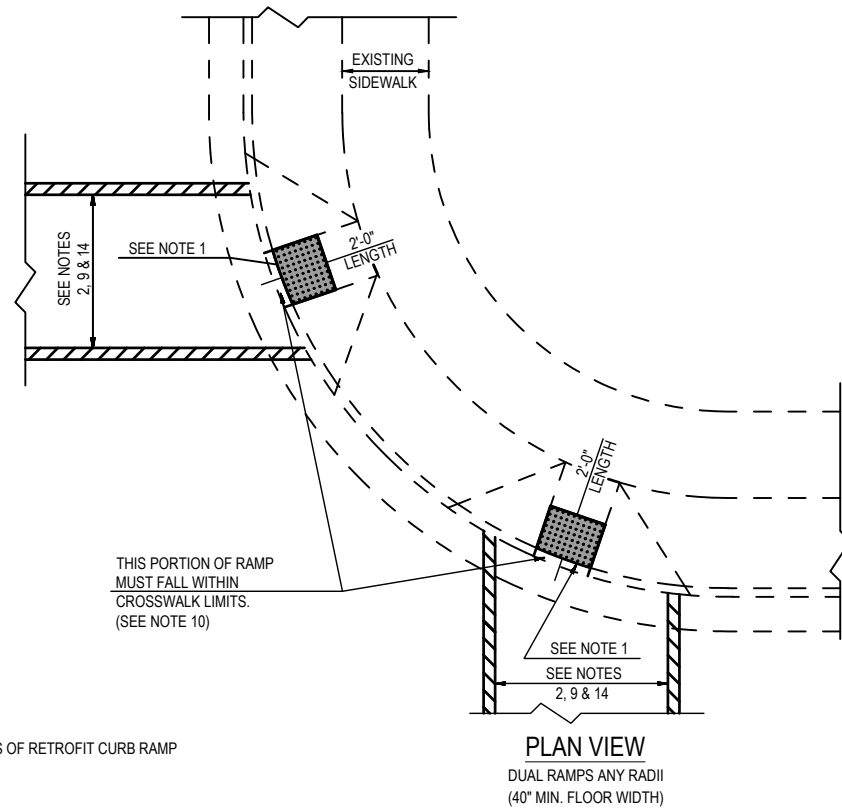
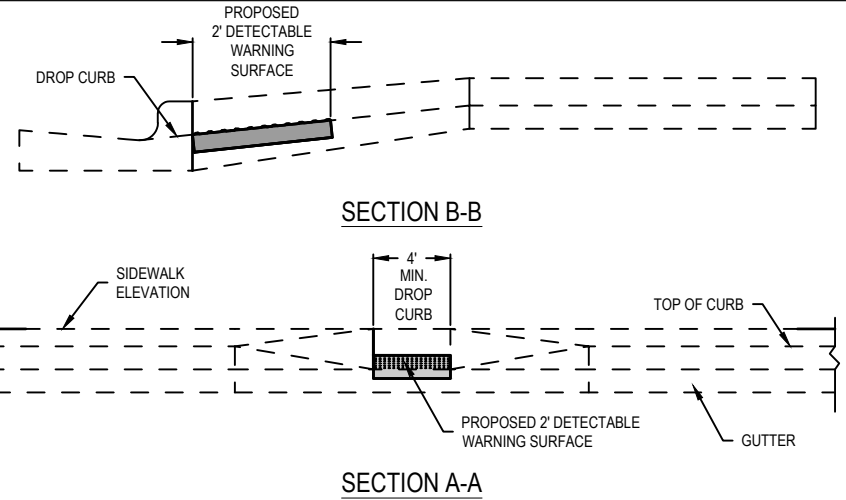
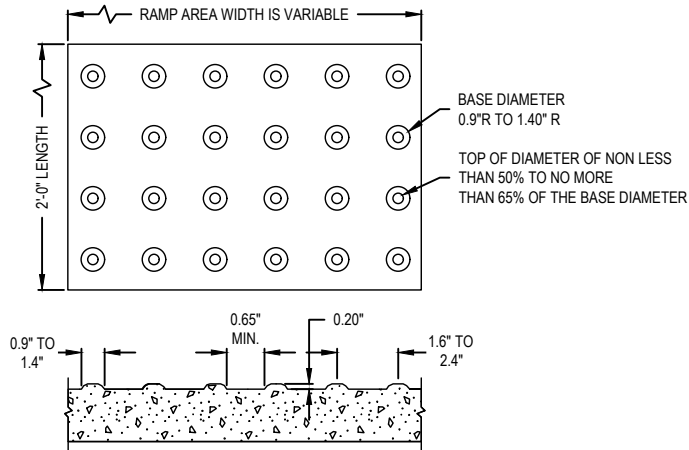
12/19/23





NOTES:

1. DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF RAMP FLOOR AS SHOWN ON THE DETAILS
2. DETECTABLE WARNING SURFACE IS REQUIRED TO BE YELLOW AND SHOULD COVER THE ENTIRE RAMP.



RETROFITTING DETECTABLE WARNING SURFACE ONTO EXISTING CURB RAMP

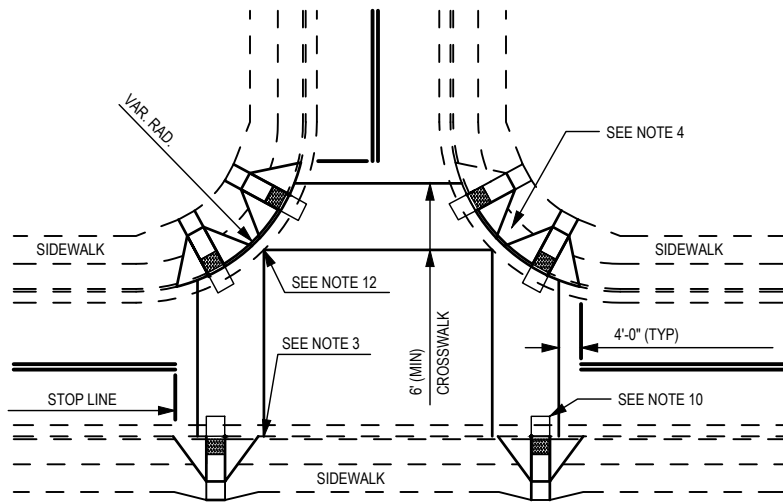
TOWN OF HOLLY SPRINGS

STANDARD DETAIL NUMBER: HS387

DATE REVISIONS

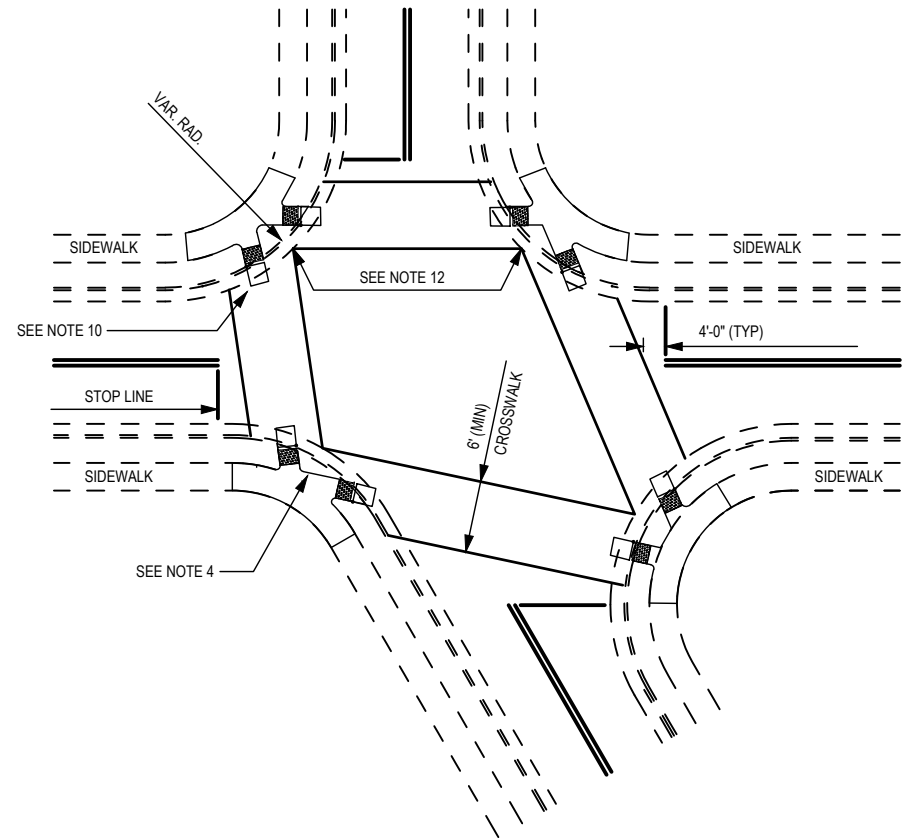
12/19/23



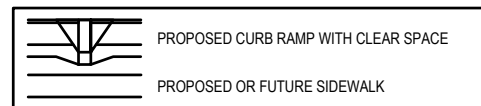
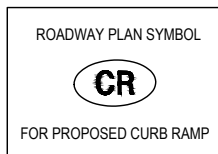


DETAIL SHOWING TYPICAL LOCATION OF CURB RAMPS,
PEDESTRIAN CROSSWALKS AND STOP LINES FOR TEE INTERSECTIONS

RAMP AND DETECTABLE WARNING SURFACE MUST BE ORIENTED STRAIGHT WITH
THE DIRECTION OF TRAVEL SO THAT THE PEDESTRIAN CROSSES PERPENDICULAR
TO THE ROADWAY. THE RAMP OPENING CAN NOT ANGLE INTO THE ROADWAY.



DETAIL SHOWING TYPICAL LOCATION OF CURB
RAMPS, PEDESTRIAN CROSSWALKS AND STOP LINES



ALLOWABLE LOCATIONS
.....
DUAL RAMP RADII ANY

DRAWING NOT TO SCALE

CURB RAMP LOCATION

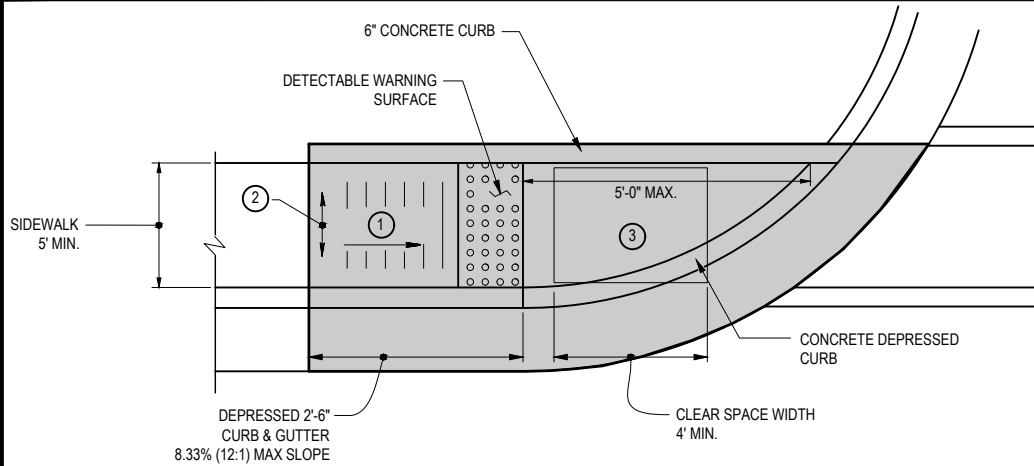
TOWN OF HOLLY SPRINGS

STANDARD DETAIL NUMBER: HS388

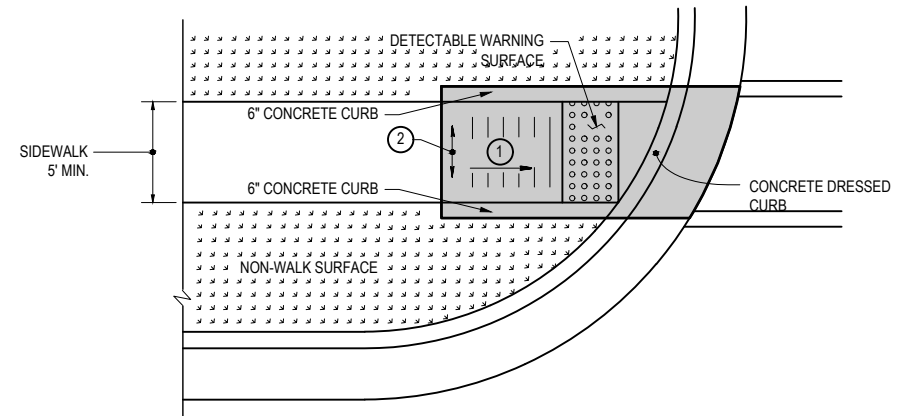
DATE REVISIONS

12/19/23
11/19/24





TYPE 1

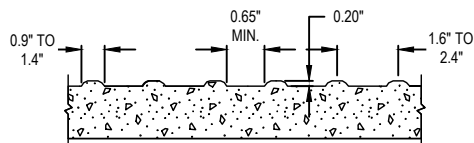
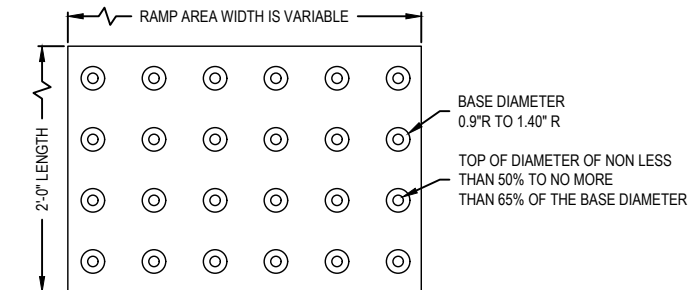


TYPE 1 MODIFIED

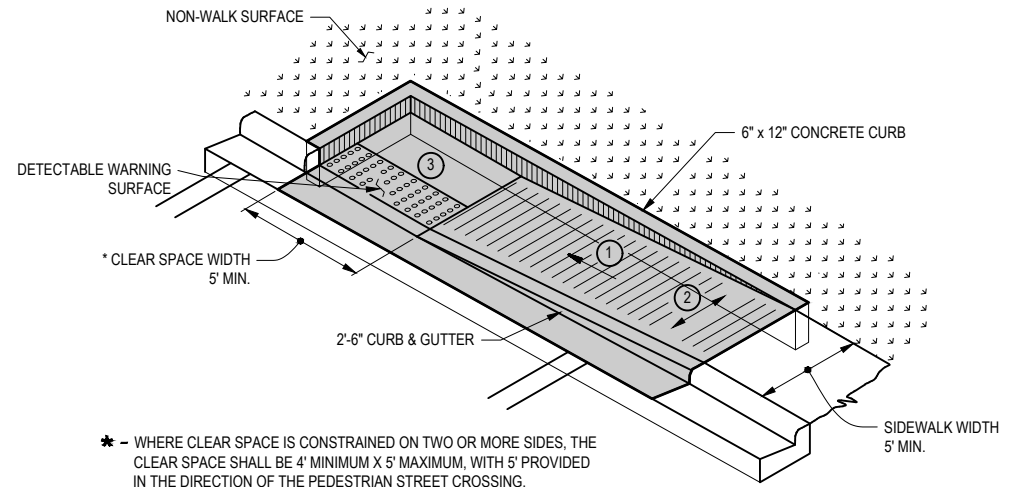
- ① 8.33% (12:1) MAX RAMP SLOPE
- ② CROSS SLOPE 2.00%
- ③ MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00%

NOTES:

1. DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF RAMP FLOOR AS SHOWN ON THE DETAILS
2. DETECTABLE WARNING SURFACE IS REQUIRED TO BE YELLOW AND SHOULD COVER THE ENTIRE RAMP.



DETECTABLE WARNING SURFACE



TYPE 1A

* - WHERE CLEAR SPACE IS CONSTRAINED ON TWO OR MORE SIDES, THE CLEAR SPACE SHALL BE 4' MINIMUM X 5' MAXIMUM, WITH 5' PROVIDED IN THE DIRECTION OF THE PEDESTRIAN STREET CROSSING.

PAY LIMITS FOR 1 CURB RAMP

DIRECTIONAL RAMP

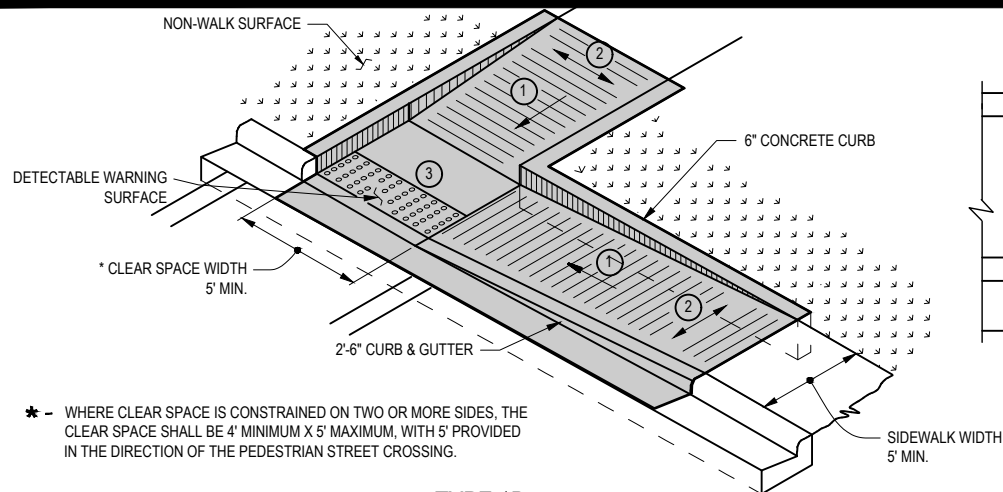
TOWN OF HOLLY SPRINGS

STANDARD DETAIL NUMBER: HS389

DATE REVISIONS

12/19/23





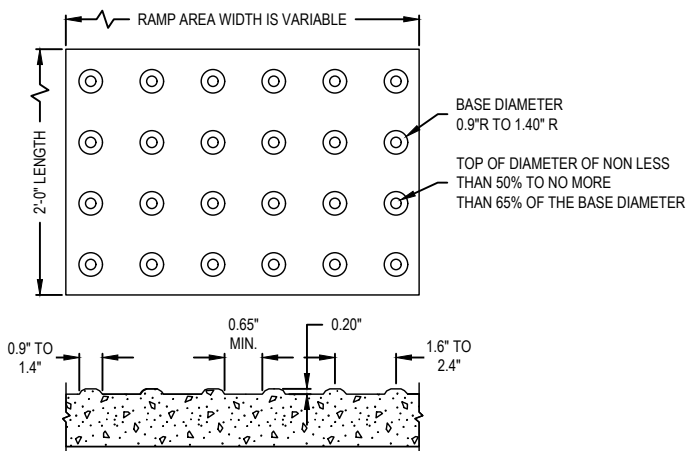
* - WHERE CLEAR SPACE IS CONSTRAINED ON TWO OR MORE SIDES, THE CLEAR SPACE SHALL BE 4' MINIMUM X 5' MAXIMUM, WITH 5' PROVIDED IN THE DIRECTION OF THE PEDESTRIAN STREET CROSSING.

TYPE 1B

- ① 8.33% (12:1) MAX RAMP SLOPE
- ② CROSS SLOPE 2.00%
- ③ MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00%

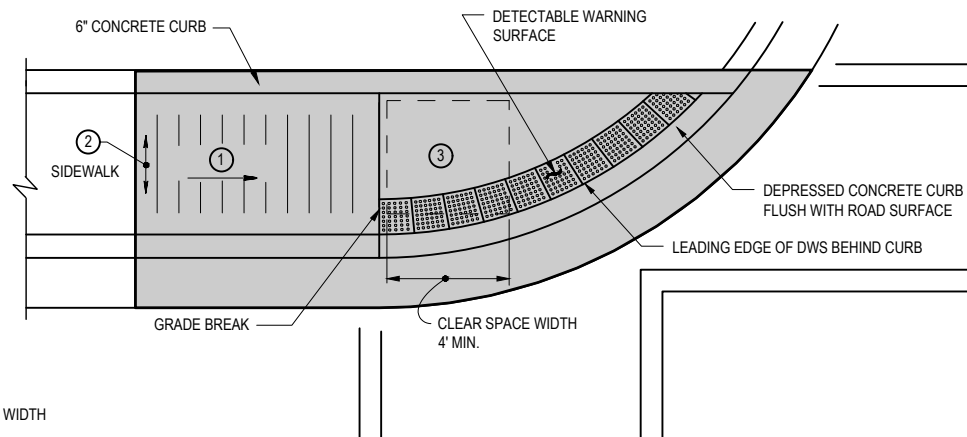
NOTES:

1. DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF RAMP FLOOR AS SHOWN ON THE DETAILS
2. DETECTABLE WARNING SURFACE IS REQUIRED TO BE YELLOW AND SHOULD COVER THE ENTIRE RAMP.

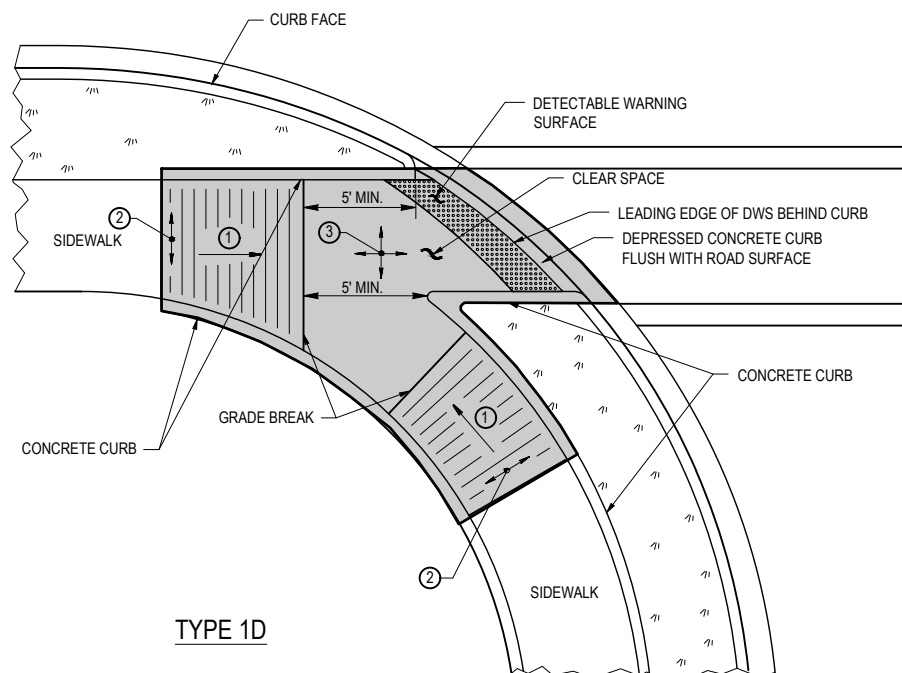


DETECTABLE WARNING SURFACE

PAY LIMITS FOR 1 CURB RAMP



TYPE 1C



TYPE 1D

DIRECTIONAL RAMP

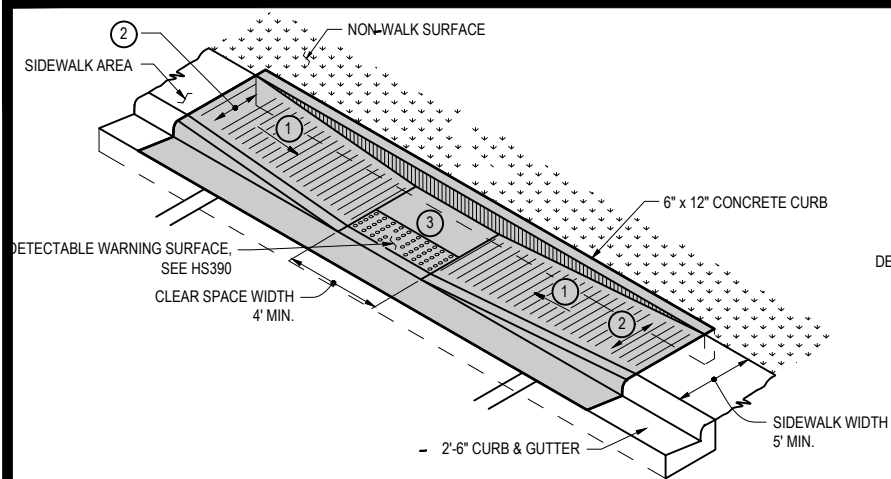
TOWN OF HOLLY SPRINGS

STANDARD DETAIL NUMBER: HS390

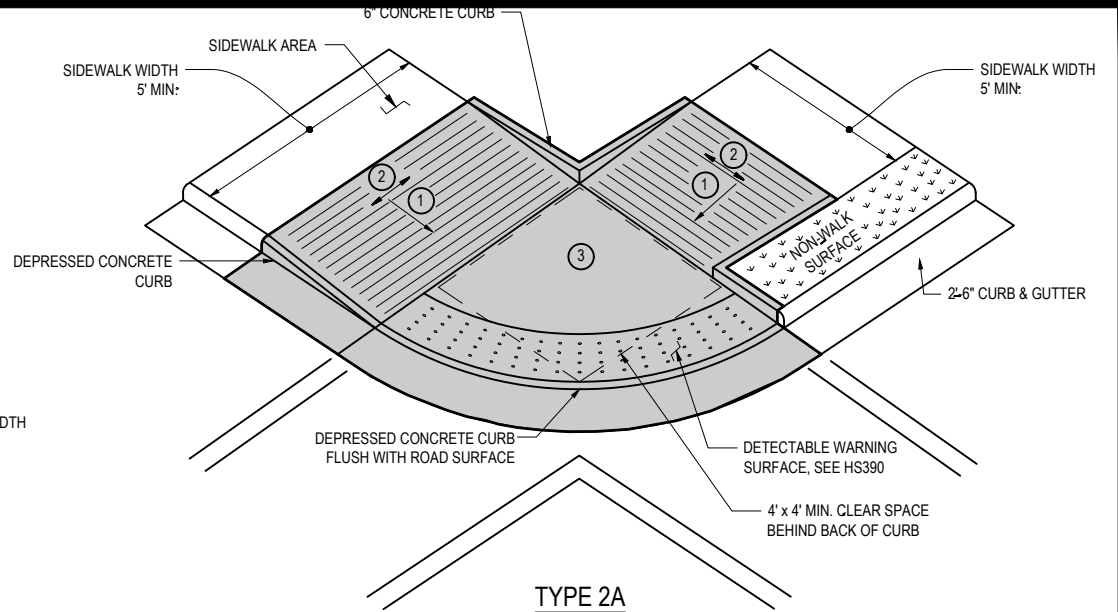
DATE REVISIONS

12/19/23

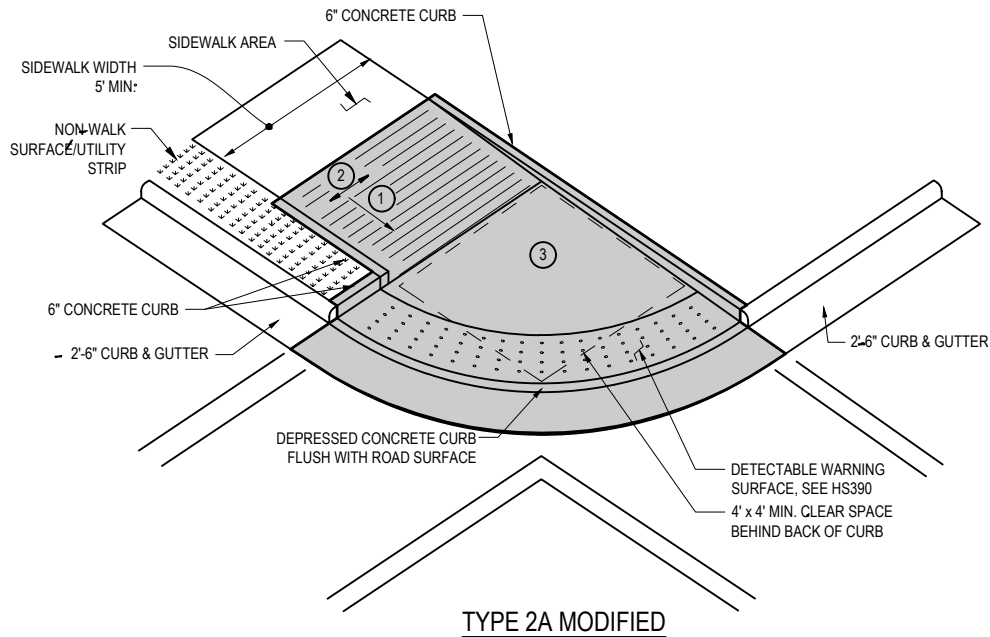




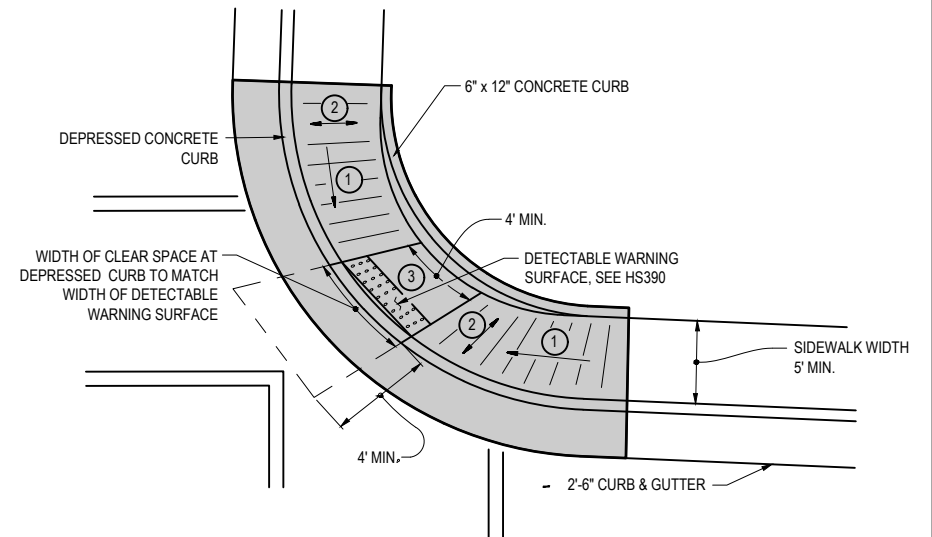
TYPE 2



TYPE 2A



TYPE 2A MODIFIED



TYPE 2B

- ① 8.33% (12:1) MAX RAMP SLOPE
- ② CROSS SLOPE 2.00%
- ③ MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00%

 PAY LIMITS FOR 1 CURB RAMP

PARALLEL RAMP

TOWN OF HOLLY SPRINGS

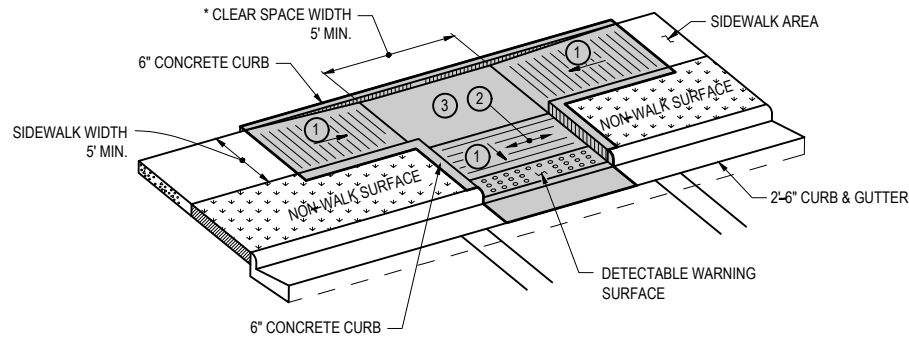
STANDARD DETAIL NUMBER: HS391

DATE REVISIONS

12/19/23



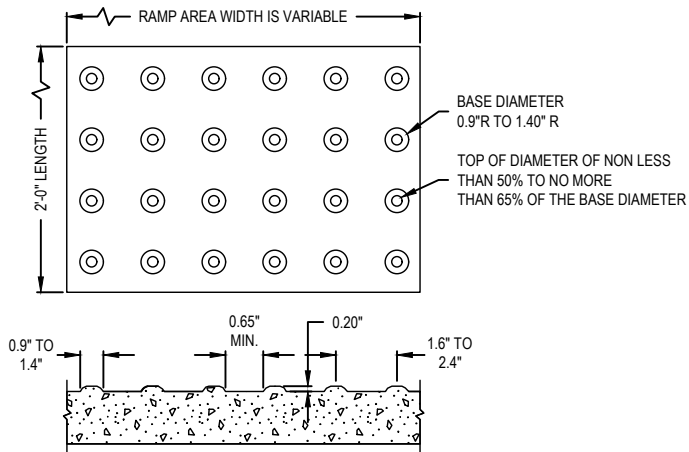
* - WHERE CLEAR SPACE IS CONSTRAINED ON TWO OR MORE SIDES, THE CLEAR SPACE SHALL BE 4' MINIMUM X 5' MAXIMUM, WITH 5' PROVIDED IN THE DIRECTION OF THE PEDESTRIAN STREET CROSSING.



TYPE 3

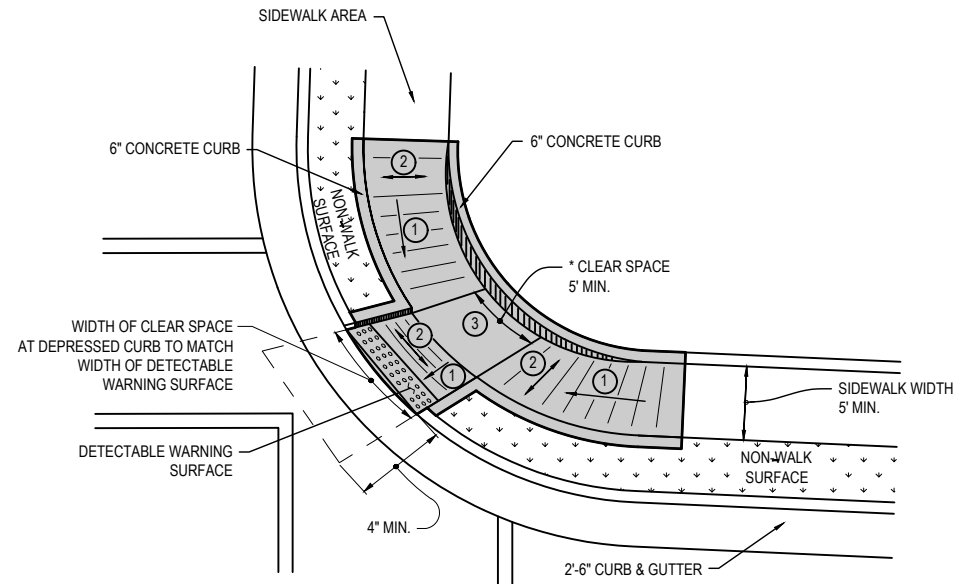
NOTES:

1. DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF RAMP FLOOR AS SHOWN ON THE DETAILS
2. DETECTABLE WARNING SURFACE IS REQUIRED TO BE YELLOW AND SHOULD COVER THE ENTIRE RAMP.



DETECTABLE WARNING SURFACE

 PAY LIMITS FOR 1 CURB RAMP



**TYPE 3 MODIFIED
INSTALLATION IN A RADIUS**

- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE 2.00%
- 3 MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00%

PARALLEL RAMP

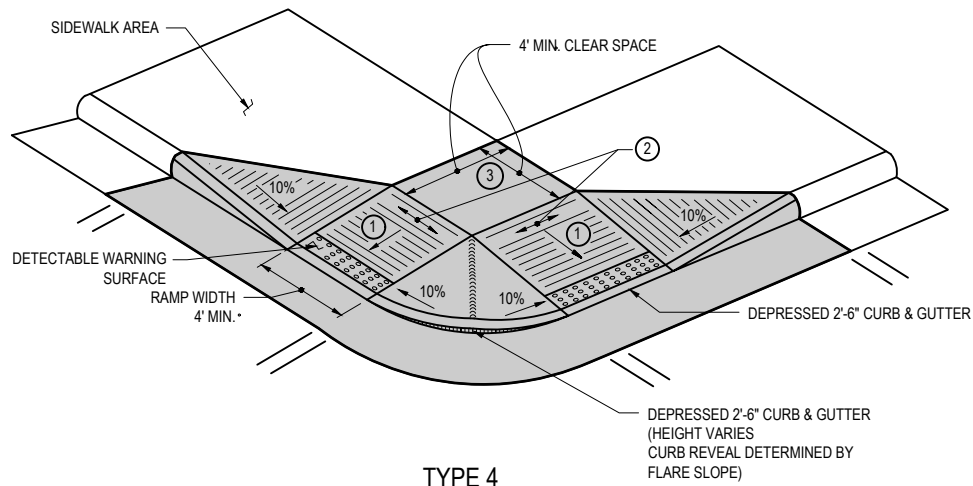
TOWN OF HOLLY SPRINGS

STANDARD DETAIL NUMBER: HS392

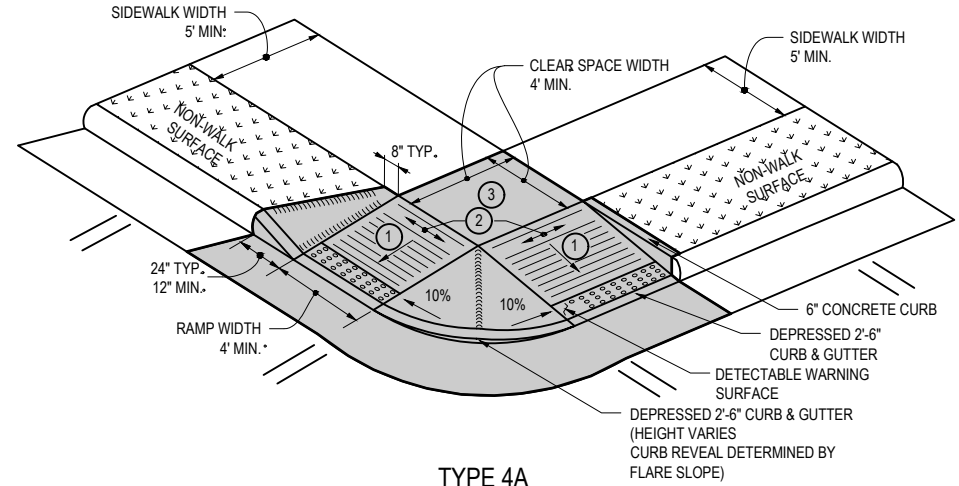
DATE REVISIONS

12/19/23

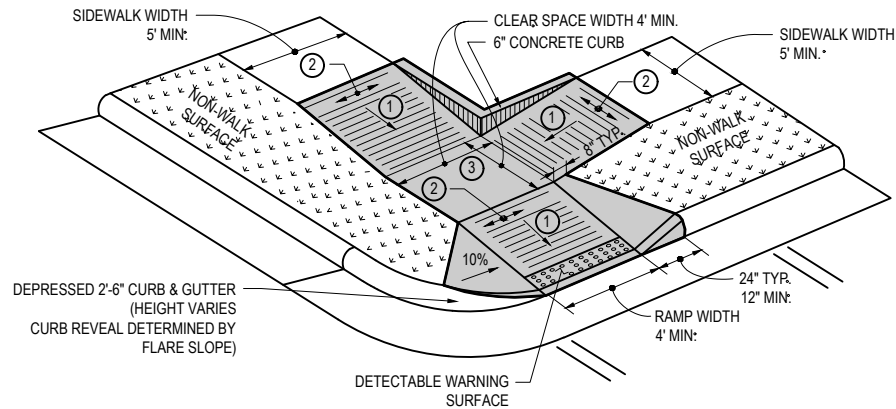




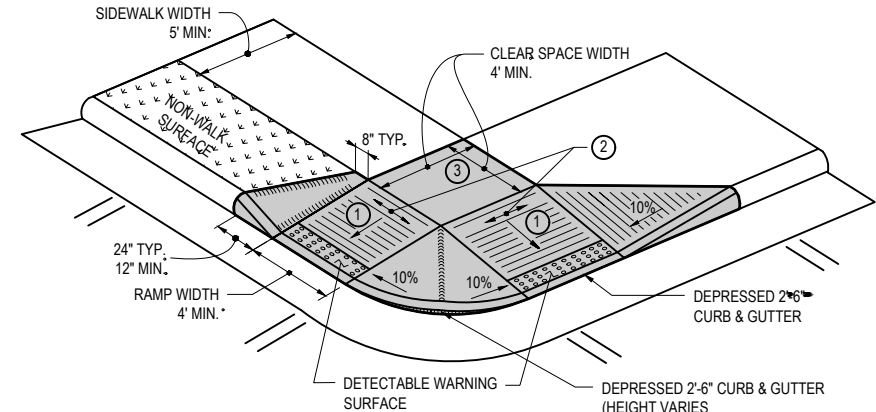
TYPE 4



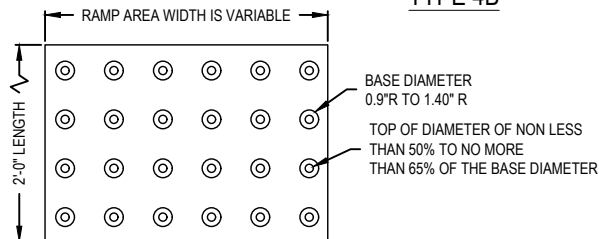
TYPE 4A



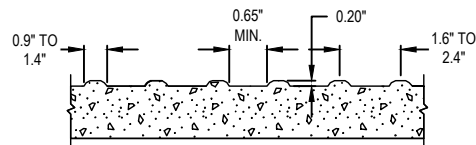
TYPE 4B



TYPE 4C



DETECTABLE WARNING SURFACE



NOTES:

1. DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF RAMP FLOOR AS SHOWN ON THE DETAILS
2. DETECTABLE WARNING SURFACE IS REQUIRED TO BE YELLOW AND SHOULD COVER THE ENTIRE RAMP.

- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE 2.00%
- 3 MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00%

PAY LIMITS FOR 1 OR 2 CURB RAMPS
(CALCULATE BASED ON NUMBER OF SETS
OF DETECTABLE WARNING SURFACES)

CURB RAMP SHARED LANDING

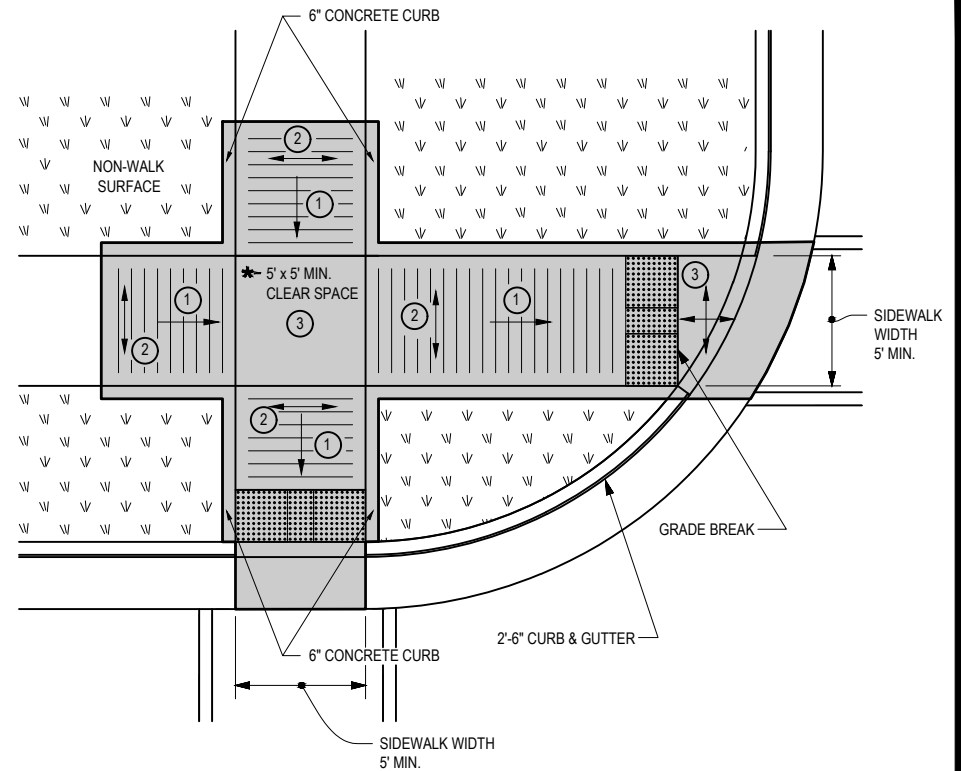
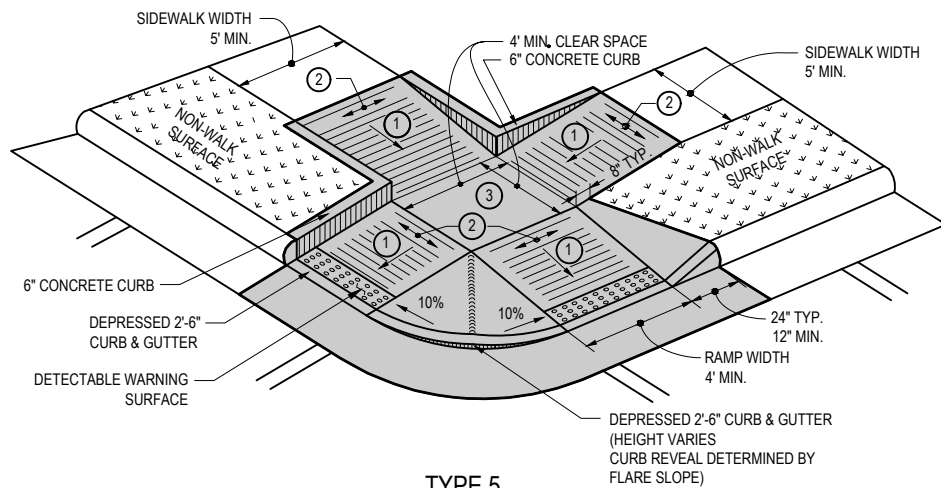
TOWN OF HOLLY SPRINGS

STANDARD DETAIL NUMBER: HS393

DATE REVISIONS

12/19/23





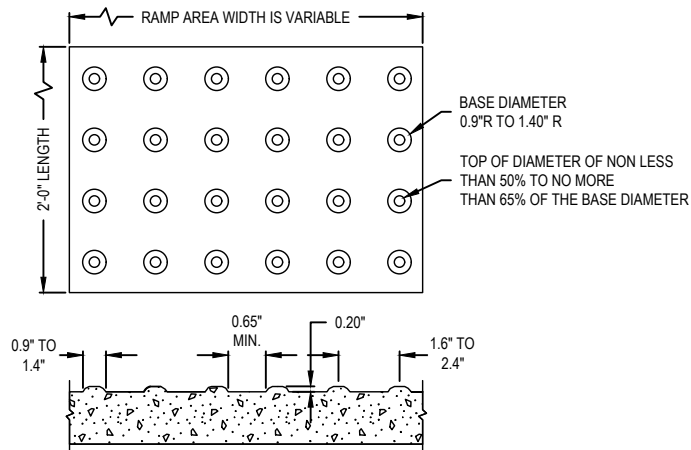
NOTES:

1. DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF RAMP FLOOR AS SHOWN ON THE DETAILS
2. DETECTABLE WARNING SURFACE IS REQUIRED TO BE YELLOW AND SHOULD COVER THE ENTIRE RAMP.

* - WHERE CLEAR SPACE IS CONSTRAINED ON TWO OR MORE SIDES, THE CLEAR SPACE SHALL BE 4' MINIMUM X 5' MAXIMUM, WITH 5' PROVIDED IN THE DIRECTION OF THE PEDESTRIAN STREET CROSSING.

TYPE 5A

- 1 8.33% (12:1) MAX RAMP SLOPE
- 2 CROSS SLOPE 2.00%
- 3 MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00%



DETECTABLE WARNING SURFACE

PAY LIMITS FOR 1 OR 2 CURB RAMPS
(CALCULATE BASED ON NUMBER OF SETS
OF DETECTABLE WARNING SURFACES)

CURB RAMP SHARED LANDING

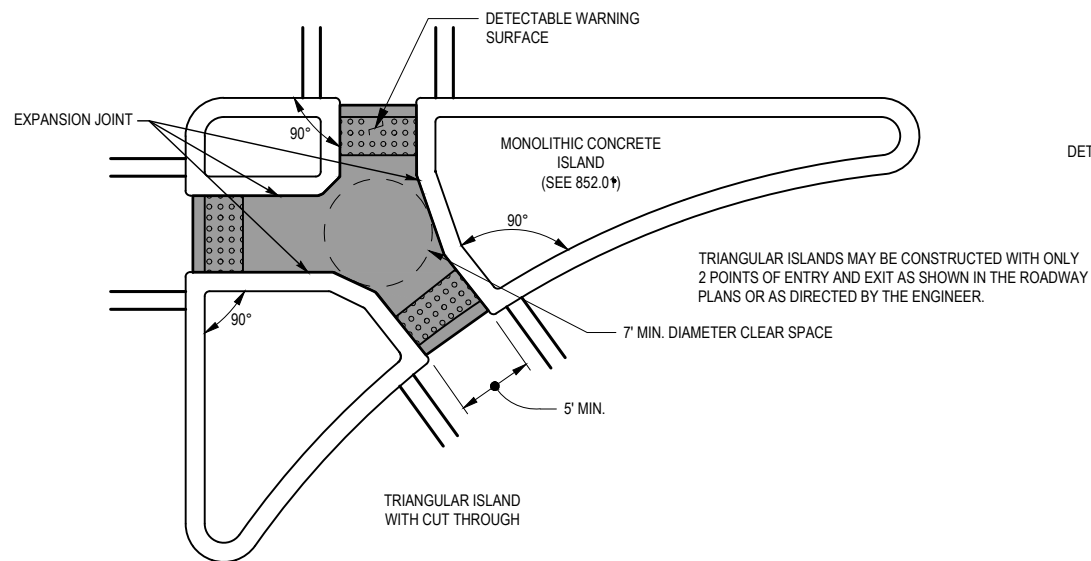
TOWN OF HOLLY SPRINGS

STANDARD DETAIL NUMBER: HS394

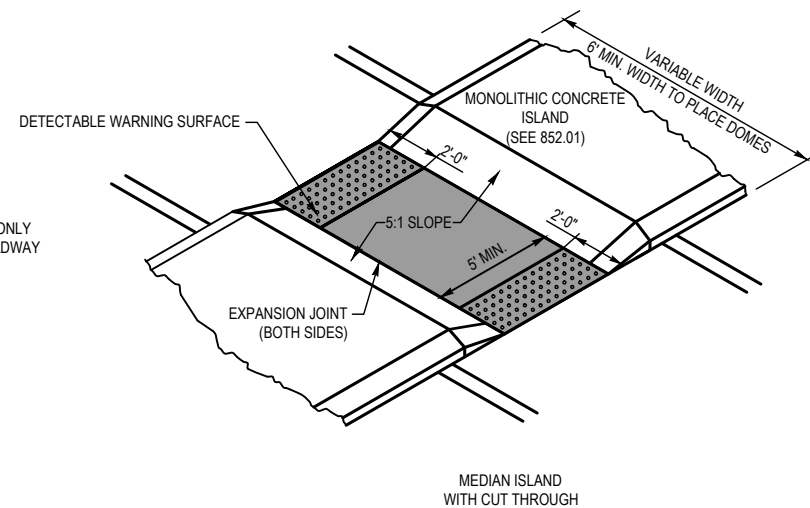
DATE REVISIONS

12/19/23

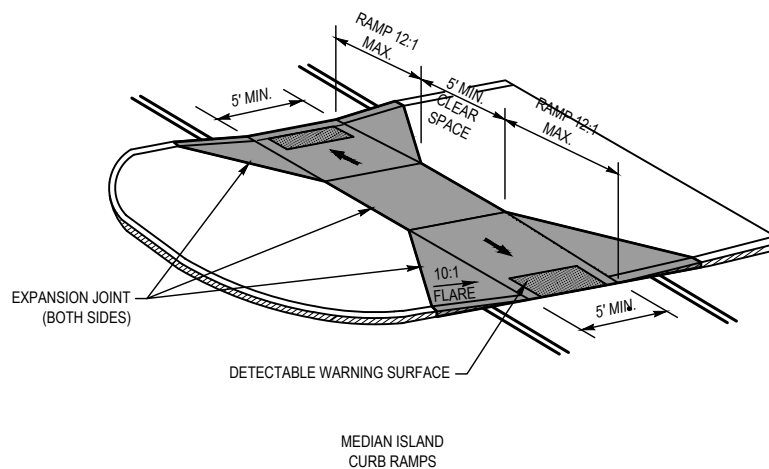




TYPE 6



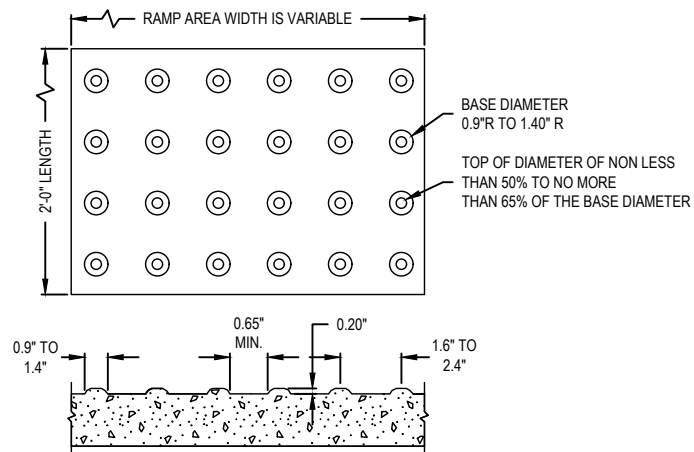
TYPE 7



TYPE 8

NOTES:

1. DETECTABLE WARNING SURFACE SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF RAMP FLOOR AS SHOWN ON THE DETAILS
2. DETECTABLE WARNING SURFACE IS REQUIRED TO BE YELLOW AND SHOULD COVER THE ENTIRE RAMP.



DETECTABLE WARNING SURFACE

CURB RAMP ISLAND RAMP

TOWN OF HOLLY SPRINGS

STANDARD DETAIL NUMBER: HS395

DATE REVISIONS

12/19/23



NOTES:

1. CONSTRUCT THE RAMP SURFACE TO BE STABLE, FIRM, AND SLIP RESISTANT. CONSTRUCT THE CURB RAMP TYPE AS SHOWN IN THE PAVEMENT MARKING PLANS OR AS DIRECTED BY THE ENGINEER.
2. LOCATE CURB RAMPS AND PLACE PEDESTRIAN CROSSWALK MARKINGS AS SHOWN UN THE PAVEMENT MARKING PLANS. WHEN FIELD ADJUSTMENTS REQUIRE MOVING CURB RAMPS OR MARKINGS AS SHOWN, CONTACT THE SIGNING AND DELINEATION UNIT TO LOCATE AS DIRECTED BY THE ENGINEER.
3. COORDINATE THE CURB RAMP AND THE PEDESTRIAN CROSSWALK MARKINGS SO A 4' x 4' CLEAR SPACE AT THE BASE OF THE CURB RAMP WILL FALL WITHIN THE PEDESTRIAN CROSSWALK LINES.
4. SET BACK DISTANCE FROM INSIDE OF CROSSWALK MARKING TO THE NEAREST EDGE OF TRAVEL LANE IS 4' MINIMUM.
5. REFER TO PAVEMENT MARKING PLANS FOR STOP BAR LOCATIONS AT SIGNALIZED INTERSECTIONS. IF A PAVEMENT MARKING PLAN IS NOT PROVIDED, CONTACT THE SIGNAL DESIGN SECTION FOR THE STOP BAR LOCATIONS OR LOCATE AS DIRECTED BY THE ENGINEER.
6. TERMINATE PARKING A MINIMUM OF 20' FROM THE BACK OF PEDESTRIAN CROSSWALK.
7. CONSTRUCT CURB RAMPS A MINIMUM OF 4' WIDE.
8. CONSTRUCT THE RUNNING SLOPE OF THE RAMP 8.33% MAXIMUM.
9. ALLOWABLE CROSS SLOPE ON SIDEWALKS AND CURB RAMPS WILL BE 2% MAXIMUM.
10. CONSTRUCT THE SIDE FLARE SLOPE A MAXIMUM OF 10% MEASURED ALONG THE CURB LINE.
11. CONSTRUCT THE COUNTER SLOPE OF THE GUTTER OR STREET AT THE BASE OF THE CURB RAMP A MAXIMUM OF 5% AND MAINTAIN A SMOOTH TRANSITION.
12. CONSTRUCT CLEAR SPACES FOR SIDEWALK A MINIMUM OF 4' x 4' WITH A MAXIMUM SLOPE OF 2% IN ANY DIRECTION. CONSTRUCT CLEAR SPACES FOR MEDIAN ISLANDS A MINIMUM OF 5' x 5' WITH A MAXIMUM SLOPE OF 2% IN ANY DIRECTION. IF CONSTRAINED ON TWO OR MORE SIDES, THE CLEAR SPACE SHALL BE 4' MINIMUM X 5' MINIMUM, WITH 5' PROVIDED IN THE DIRECTION OF THE PEDESTRIAN STREET CROSSING.
13. TO USE A MEDIAN ISLAND AS A PEDESTRIAN REFUGE AREA, MEDIAN ISLANDS WILL BE A MINIMUM OF 6' WIDE. CONSTRUCT MEDIAN ISLANDS TO PROVIDE PASSAGE OVER OR THROUGH THE ISLAND.
14. SMALL CHANNELIZATION ISLANDS THAT CANNOT PROVIDE A 5'x5' CLEAR SPACE AT THE TOP OF RAMPS, WILL BE CUT THOUGH LEVEL WITH THE SURFACE STREET.
15. CURB RAMPS WITH RETURNED CURBS MAY BE SUED ONLY WHERE PEDESTRIAN WOULD NOT NORMALLY WALK ACROSS THE RAMP, WHERE THE ADJACENT SURFACE IS PLATING OR OTHER NON-WALKING SURFACE, OR THE APPROACH IS SUBSTANTIALLY OBSTRUCTED.
16. PLACE A 1/2" EXPANSION JOINT WHERE THE CONCRETE RAMP JOINS THE CURB RAMP AS SHOWN IN ROADWAY STANDARD DRAWING 848.01.
17. PLACE ALL PEDESTRIAN PUSH BUTTON ACTUATORS AND CROSSING SIGNALS AS SHOWN IN THE PLANS OR AS SHOWN IN THE MUTCD.
18. DETECTABLE WARNING SURFACES WILL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN ON THE DETAILS.
19. DETECTABLE WARNING SURFACE IS REQUIRED TO BE YELLOW AND SHOULD COVER THE ENTIRE RAMP.

CURB RAMP NOTES

TOWN OF HOLLY SPRINGS

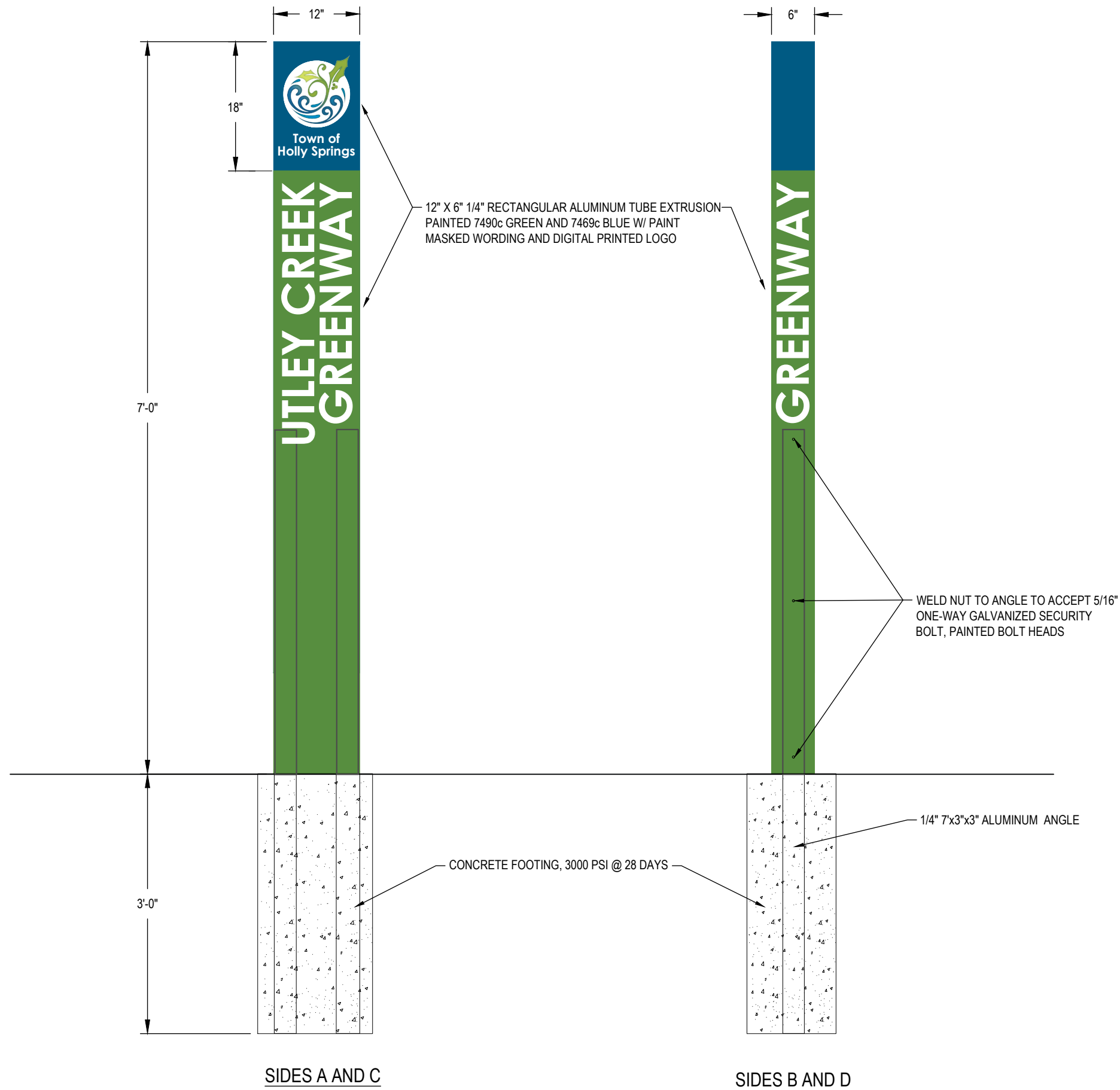
STANDARD DETAIL NUMBER: HS396

DATE

REVISIONS

12/19/23





- PMS 7490c
- PMS 7469c
- White

SIDES A AND C

SIDES B AND D

GREENWAY MARKER - RECTANGLE

TOWN OF HOLLY SPRINGS

DRAWING NOT TO SCALE

STANDARD DETAIL NUMBER: HS397

DATE REVISIONS

6/11/24



NOTES:

1. "WELCOME" font to be Futura Bk BT
2. "HOLLY SPRINGS" font to be Garamond MT Regular
3. Sign face to face oncoming traffic

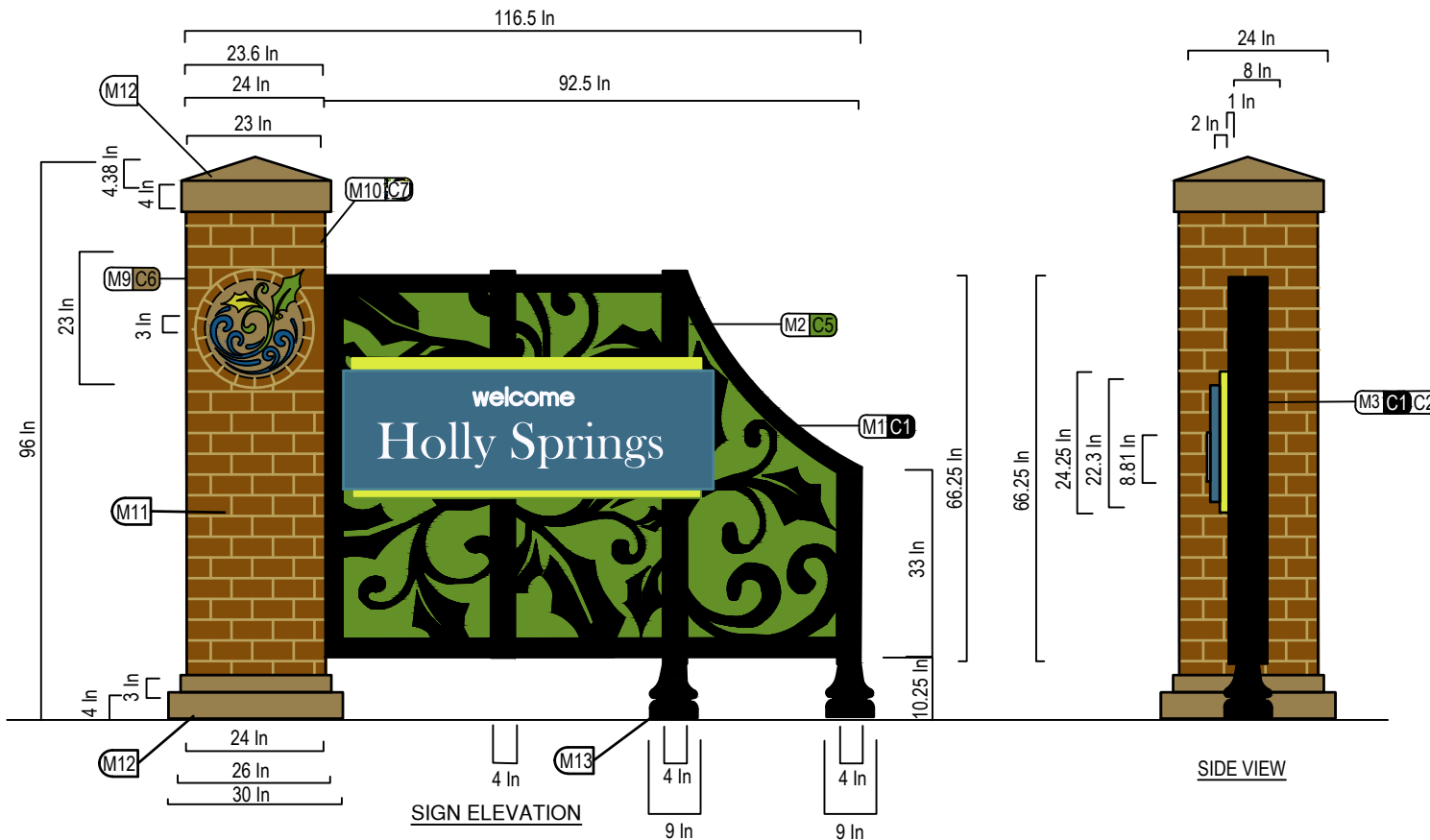
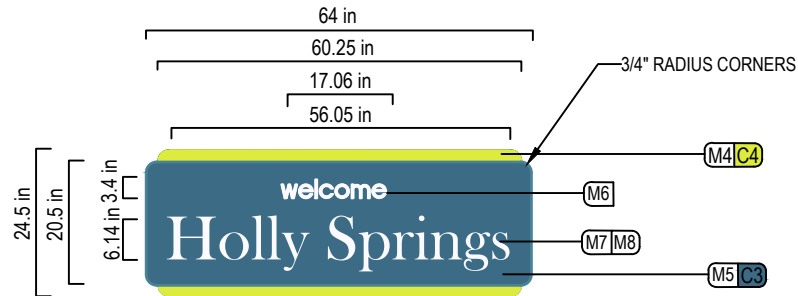
MATERIALS/COLORS:

- M1 .1875 Thick Aluminum
- M2 .177" Clear Polycarbonate
- M3 Fabricated Aluminum Cabinet; 8" deep
- M4 Fabricated Aluminum 1" deep background panel
- M5 Fabricated Aluminum 2; deep cabinet; cut through copy
- M6 .188" White Acrylic
- M7 .5" Clear Acrylic
- M8 .125" opaque white acrylic
- M9 25 MM (1") PVC
- M10 .375" thick aluminum, spacers (depth tbd)
- M11 Brick - Williamsburg #60
- M12 Precast - Wheat
- M13 10.25" Cast Mini Americana Base

- C1 Paint - Black; semi-gloss
- C2 Paint - Anti Graffiti Clear Coat; back of cabinet only
- C3 Paint - Blue PMS 7469C; semi-gloss
- C4 Paint - Gold PMS 585C; semi-gloss
- C5 Paint - Translucent Green PMS 7490C; subsurface
- C6 Paint - faux finish to match precast cap/base
- Paint - custom airbrush logo

Illumination: Pure White LED illumination (green panels and text on sign panel) 100v-277v Variable 12V IP68 - Waterproof - Power Supplies

- PMS 7469C
- PMS 7490C
- PMS 585C
- PMS 2603C
- PMS 3025C
- PMS 7455C



ALTERNATE SIGN ELEVATION

DRAWING NOT TO SCALE

PRIMARY GATEWAY SIGN

TOWN OF HOLLY SPRINGS

STANDARD DETAIL NUMBER: HS398

DATE REVISIONS

11/19/24

