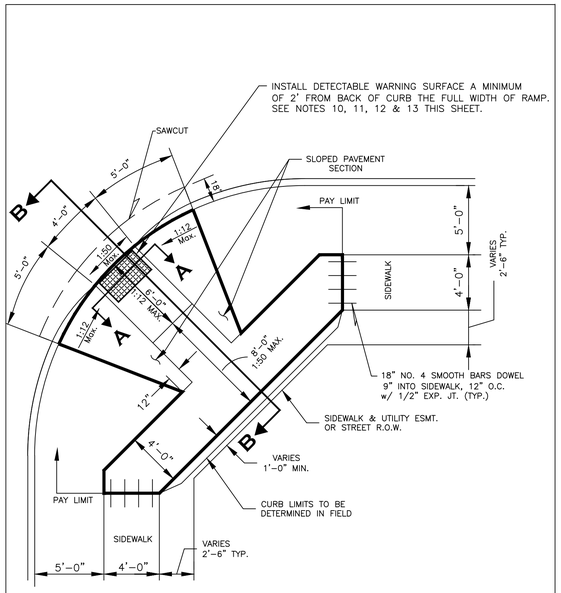
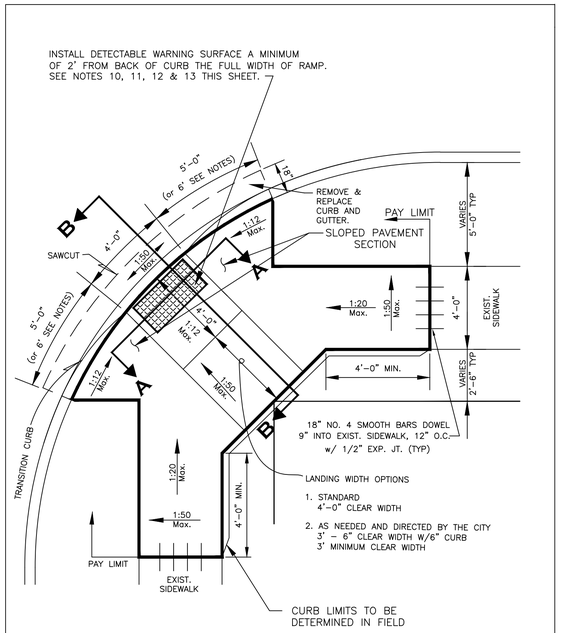
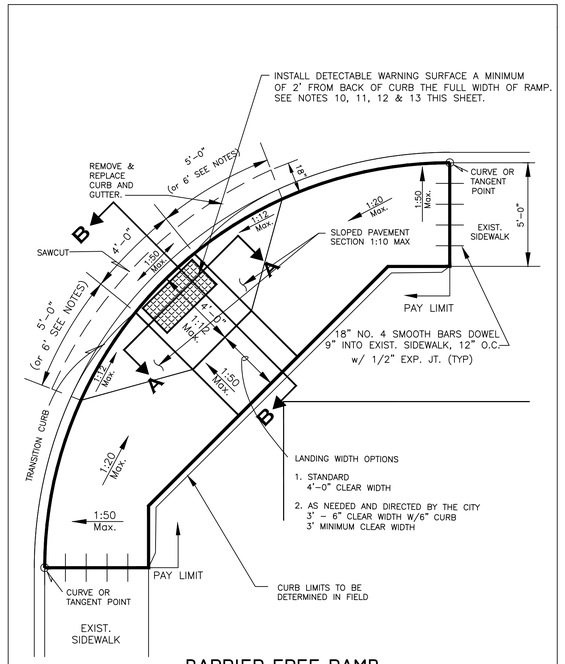


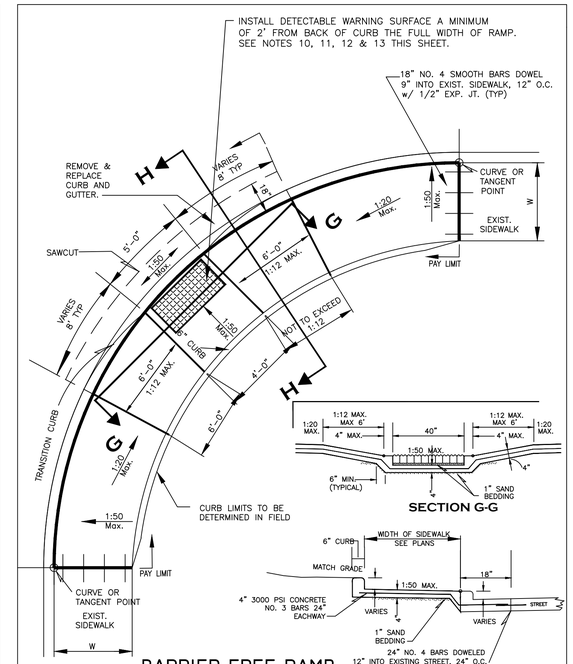
BARRIER FREE RAMP
AT INTERSECTION
TYPE A



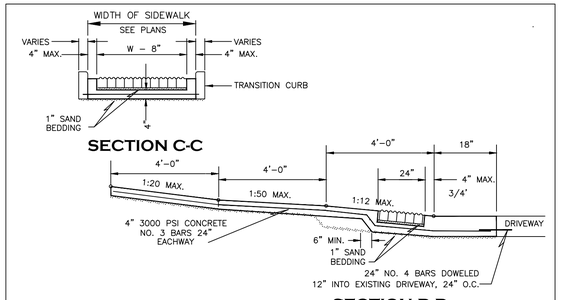
BARRIER FREE RAMP
INSIDE R.O.W.
TYPE B

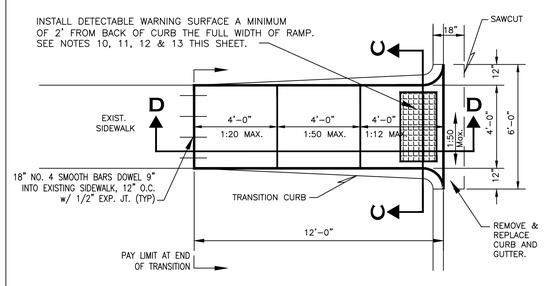


BARRIER FREE RAMP
SIDEWALK AT CURB
TYPE C

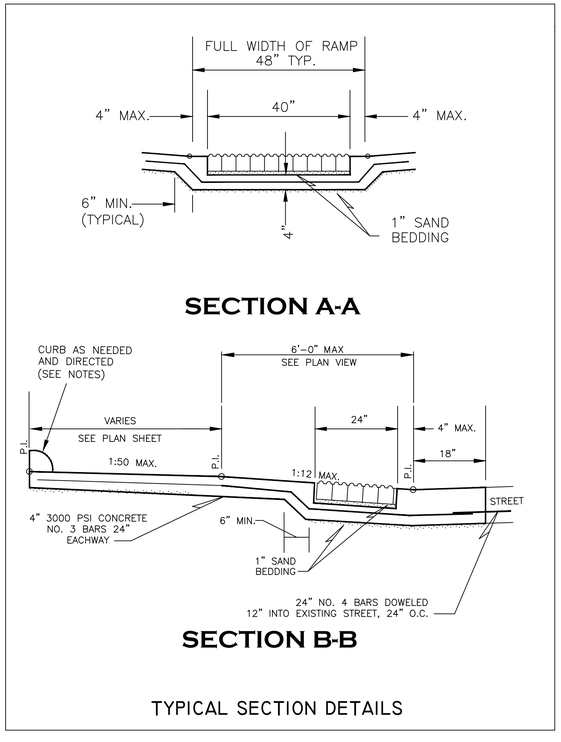


BARRIER FREE RAMP
SIDEWALK AT CURB
TYPE D





BARRIER FREE RAMP
AT COMMERCIAL DRIVEWAY (I)
TYPE E



NOTES:

1. DIMENSIONS SHOWN ON STANDARD DETAILS ARE APPROXIMATE AND WILL VARY DEPENDING ON EXISTING SIDEWALK AND STREET LONGITUDINAL AND CROSS SLOPES. DIMENSIONS SHOWN ASSUME EXISTING LONGITUDINAL AND CROSS SLOPES ARE LESS THAN 2%. RAMP LOCATIONS WITH LONGITUDINAL OR CROSS SLOPES EXCEEDING 2% SHOULD BE ADDRESSED BY SEPARATE DESIGN DETAILS THAT COMPLY WITH TEXAS ACCESSIBILITY STANDARDS AND MATCH CITY OF RICHARDSON STANDARD DETAILS IN APPEARANCE AS MUCH AS POSSIBLE.
2. RAMPS FOR SIDEWALKS (WITH WIDTHS OTHER THAN SHOWN ON THESE DETAILS) SHOULD BE ADJUSTED TO FIT DIMENSIONS OF THE APPROACH SIDEWALKS CALLED FOR ON PLAN SHEETS.
3. FULL LENGTH OF RAMP (SLOPE OF 1:12) NOT TO EXCEED 6' IN LENGTH.
4.. PAYMENT FOR INSTALLATION OF BARRIER FREE RAMP SHALL INCLUDE SAWCUT, REMOVAL AND DISPOSAL OF EXISTING CURB AND GUTTER, SIDEWALK, ALL EXCAVATION NECESSARY TO CONSTRUCT RAMPS PER CITY STANDARDS, INCLUDING ALL LABOR, MATERIAL AND OTHER MISCELLANEOUS APPERTANCES.
5. THE CONTRACTOR MUST NOTIFY THE CITY PRIOR TO INSTALLATION OF CONCRETE IF THE APPROACH SLOPE OF THE EXISTING SIDEWALK EXCEEDS 1:20 (5%) OR HAS A CROSSFALL GREATER THAN 1:50 (2%) AND NO DESIGN DETAILS ARE PROVIDED FOR THAT SPECIFIC LOCATION.
6. CONTRACTOR TO VERIFY ALL SLOPES PRIOR TO POURING CONCRETE. ALL SLOPES SHOULD BE IN COMPLIANCE WITH APPLICABLE STANDARDS FROM THE TEXAS DEPARTMENT OF LICENSING AND REGULATION.
7. MINIMUM LANDING CLEAR WIDTH TO BE 48", UNLESS OTHERWISE DIRECTED BY THE CITY. WHEN LANDING IS LESS THAN 48" CLEAR WIDTH THE STREET CURB TRANSITION TO BE INCREASED FROM 5' TO 6' IN LENGTH.
8. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO INSURE SLOPES MEET REQUIREMENTS OF THE TEXAS ACCESSIBILITY STANDARDS.
9. A CURB SHALL BE CONSTRUCTED AT THE BACK OF THE WHEELCHAIR RAMP WHEN ELEVATION DIFFERENCE EXCEEDS 8".
10. DETECTABLE WARNING SHALL BE 24" IN LENGTH THE FULL WIDTH OF RAMP AT BACK OF CURB (LESS 4" BORDER FOR BRICK PAVERS) AND BE AS SPECIFIED EXCEPT AT INTERESECTIONS WHERE EXISTING RAMPS ON ADJACENT CORNERS PROVIDE DETECTABLE WARNING FOR THE FULL LENGTH AND WIDTH OF RAMP. WHERE EXISTING RAMPS ON ADJACENT CORNERS PROVIDE DETECTABLE WARNING FOR THE FULL LENGTH AND WIDTH OF RAMP THE NEW RAMPS SHALL BE MADE TO MATCH ADJACENT RAMPS IN COMPLIANCE WITH TEXAS ACCESSIBILITY STANDARDS.
11. BRICK PAVERS SHALL BE 7 $\frac{7}{8}$"x 3 $\frac{15}{16}$"x 2 $\frac{3}{8}$" WITH "CHARCOAL" COLOR MEETING ADA SECTION 4.29.2 (PAVESTONE DETECTABLE WARNING PAVER OR APPROVAL EQUAL). PAVERS SHALL HAVE DETECTABLE WARNING THAT CONSIST OF RAISED TRUNCATED DOMES WITH A DIA. OF 0.9 IN. (23MM), A HEIGHT OF NOMINAL 0.2 IN. (5MM) AND A CENTER TO CENTER SPACING OF NOMINAL 2.35 IN. (60MM). PAVERS SHALL BE SAWED (NOT BROKEN)
12. A VIBRATORY PLATE SHALL BE USED TO CONSOLIDATE PAVERS AFTER INSTALLATION. CONTRACTOR SHALL PREVENT DAMAGE TO PAVERS FROM VIBRATORY PLATE BY COVERING PAVERS WITH PLYWOOD, OR OTHER METHOD APPROVED BY THE CITY. ANY DAMAGE PAVERS WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE
13. ADA REPLACEABLE (WET SET) COMPOSITE TACTILE WARNING SURFACE UNIT (GRAY) AVAILABLE FROM ADA SOLUTIONS MAY BE INSTALLED INSTEAD OF SPECIFIED TRUNCATED DOME BRICK PAVERS. CONTRACTOR SHALL PROVIDE A MINIMUM 4" CONCRETE THICKNESS BENEATH THE ADA REPLACEABLE COMPOSITE TACTILE WARNING SURFACE UNIT. THE TYPICAL BOX LEAVE OUT AND DEEPER CONCRETE SECTION FOR PAVERS SHOWN IN DETAILS IS NOT REQUIRED.

CONVERSIONS
1:12 – APPROXIMATELY 8.3%
1:20 – APPROXIMATELY 5%
1:50 – APPROXIMATELY $\frac{1}{4}$" per 1' or 2%

Revisions:

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CITY OF RICHARDSON TEXAS

STANDARD DETAILS
City of Richardson, Texas

NO ADDITIONS OR CHANGES TO STANDARD DETAIL SHEETS UNLESS APPROVED BY CITY OF RICHARDSON

24"x36" Scale: NTS
11"x17" Scale: NTS
Vertical Scale: NA
Project Number: XXX
Issue Date: 01 MAY 14
Sheet Title: **BARRIER FREE RAMPS**
Sheet No.: **C-12**