Include a cross reference to Tabulation when an intersection requires both Level 1 and 2/3 designs. Do not show removals or planned construction at the Level 1 quadrant.

Reverse gutter used to help make up elevation.

Label specific ramp slope (to the nearest full %) and length only if and only when they are non-compliant.

For Level 2 quadrants, include only one Control Point on ramps. Locate this point at the outside edge of domes. Select the Trunk Highway side for depressed corner or fan ramps.

Level 3 quadrant because of vertical constraint (an alcove to match, in this case).

When including (x,y,z)’s for directional curb, select three points: outside edge of domes and two on the flow line.

Level 3 quadrant because of vertical constraint (a step to match, in this case) and because of the non-compliant ramp slope.

2’s provided when curb flow lines are changed vertically/horizontally.

LEGEND
- CONSTRUCT CONCRETE CURB & GUTTER
- BI-TRIANGULAR TREATMENT - SEE TABULATIONS
- Curb height
- LANDING AREA - 4’ X 4’ MIN. DIMENSIONS AND MAX 2.0’ SLOPE IN ALL DIRECTIONS
- INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0’ MINIMUM AND 3.0’ MAXIMUM IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0’
- INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 2.0’ AND LESS THAN 5.0’ IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0’
- DRAINAGE FLOW ARROW

GUTTER CONTROL POINTS

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INCLUSION A

INTERSECTION DETAILS

STATE PROJ. NO. XXXX-XX (T,H,XX) SHEET NO. XX OF XX SHEETS
SIGNAL REPLACEMENT WITH APS EXAMPLE PLAN

**Incorporate (x,y) for the center of all proposed push button, pedestal, and signal pole locations. The point numbers will cross-reference with the Signal Plan.**

20-scale required

Distances from push button to front and back of landing included to provide for the 6 ft MAR (Maintenance Access Route), or the 4 ft minimum PAR, and to emphasize the Mn MUTCD criteria that push buttons should be adjacent to a landing (and not at ramp grade breaks).

Distances from push button to front and back of landing included to provide for the 6 ft MAR (Maintenance Access Route), or the 4 ft minimum PAR, and to emphasize the Mn MUTCD criteria that push buttons should be adjacent to a landing (and not at ramp grade breaks).

**See MnDOT Standard Legend on ADA website**

- **PROPOSED SIGNAL POLE**
- **PROPOSED PEDESTAL**
- **PEDESTRIAN PUSH BUTTON SET**
- **PEDESTRIAN PUSH BUTTON**
- **CONTROL POINTS AT GUTTER FLOW LINE**
- **TRUNCATED DOWNS (SEE STANDARD PLATE 103B)**
- **CONSTRUCT CONCRETE CURB & GUTTER**
- **BITUMINOUS TREATMENT-SEE TABULATIONS**
- **CURB HEAINT**
- **LANDING AREA - 4"X4" MIN. DIMENSIONS AND MAX EOG SLOPE IN ALL DIRECTIONS**
- **INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%**
- **INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 8.3% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%**
- **DRAINAGE FLOW ARROW**

**Quantity tabulation included only if it's a standalone signal project. ADA pay item quantities are otherwise included in the Plan Tabulations and SEQ.**

**Draft ramp lengths to scale.**

**Always explain vertical tie-ins using contractor-friendly terms.**

For Level 2 quadrants, include only one Control Point on ramps. Locate this point at the outside edge of domes. Select the Trunk Highway side for depressed corner or fan ramps.

**peAAR detailS traAffic con)]TX SIGNAL SYSTE|J.H 156 AT C.S.A.H. 14 (GRAND AVE) IN SOUTH ST. PAUL, DAKOTA COUNTY**

- **Proposed Signal Pole**
- **Proposed Pedestal**
- **Pedestrian Push Button Set**
- **Pedestrian Push Button**
- **Control Points at Gutter Flow Line**
- **Truncated Dows (See Standard Plate 103B)**
- **Construct Concrete Curb & Gutter**
- **Bituminous Treatment—See Tabulations**
- **Curb Heaint**
- **Landing Area—4"x4" Min. Dimensions and Max Eog Slope in All Directions**
- **Indicates Pedestrian Ramp—Slope Shall Be Between 5.0% Minimum and 8.3% Maximum in the Direction Shown and Cross Slope Shall Not Exceed 2.0%**
- **Indicates Pedestrian Ramp—Slope Shall Be Greater Than 2.0% and Less Than 8.3% in the Direction Shown and Cross Slope Shall Not Exceed 2.0%**
- **Drainage Flow Arrow**

**Quantity Tabulation Included Only If It's a Standalone Signal Project. ADA Pay Item Quantities Are Otherwise Included in the Plan Tabulations and SEQ.**

**Draft Ramp Lengths to Scale.**

**Always Explain Vertical Tie-Ins Using Contractor-Friendly Terms.**

For Level 2 Quadrants, Include Only One Control Point on Ramps. Locate This Point at the Outside Edge of Domes. Select the Trunk Highway Side for Depression Corner or Fan Ramps.
Only one intersection per sheet

Distsances from push button to front and back of landing included to provide for the 6 ft MAR (Maintenance Access Route), or the 4 ft minimum PAR, and to emphasize the Mn MUTCD criteria that push buttons should be adjacent to a landing (and not at ramp grade breaks).

For Level 2 quadrants, include only one Control Point on ramps. Locate this point at the outside edge of domes. Select the Trunk Highway side for depressed corner or fan ramps.

Always explain vertical tie-ins using contractor-friendly terms.
LEVEL 3 ISLAND (A.K.A. PORK CHOP) EXAMPLE DETAIL

All quadrants on this sheet would ordinarily contain Level 2/3 details in addition to the pork chop detail.

(x,y,z) included because the inplace island curb and gutter will be entirely rebuilt.

10-scale used to display details only because ramp slopes couldn't fit in on a 20-scale

4" curb height preferred for islands. 4" curb height required if design speed is 45 mph or greater, in accordance with Road Design Manual 4-4.04.

(x,y,z) on the landing applies because of the reconstruction scope. The control point on the landing is included only for and for all reconstruction projects.

See MnDOT Standard Legend on ADA website