

Sleeve size or location from edge?

Sleeve for Safe Hit Delineator, to extend to subgrade (TYP)

* Provide flat platform rest area.

NOT TO SCALE

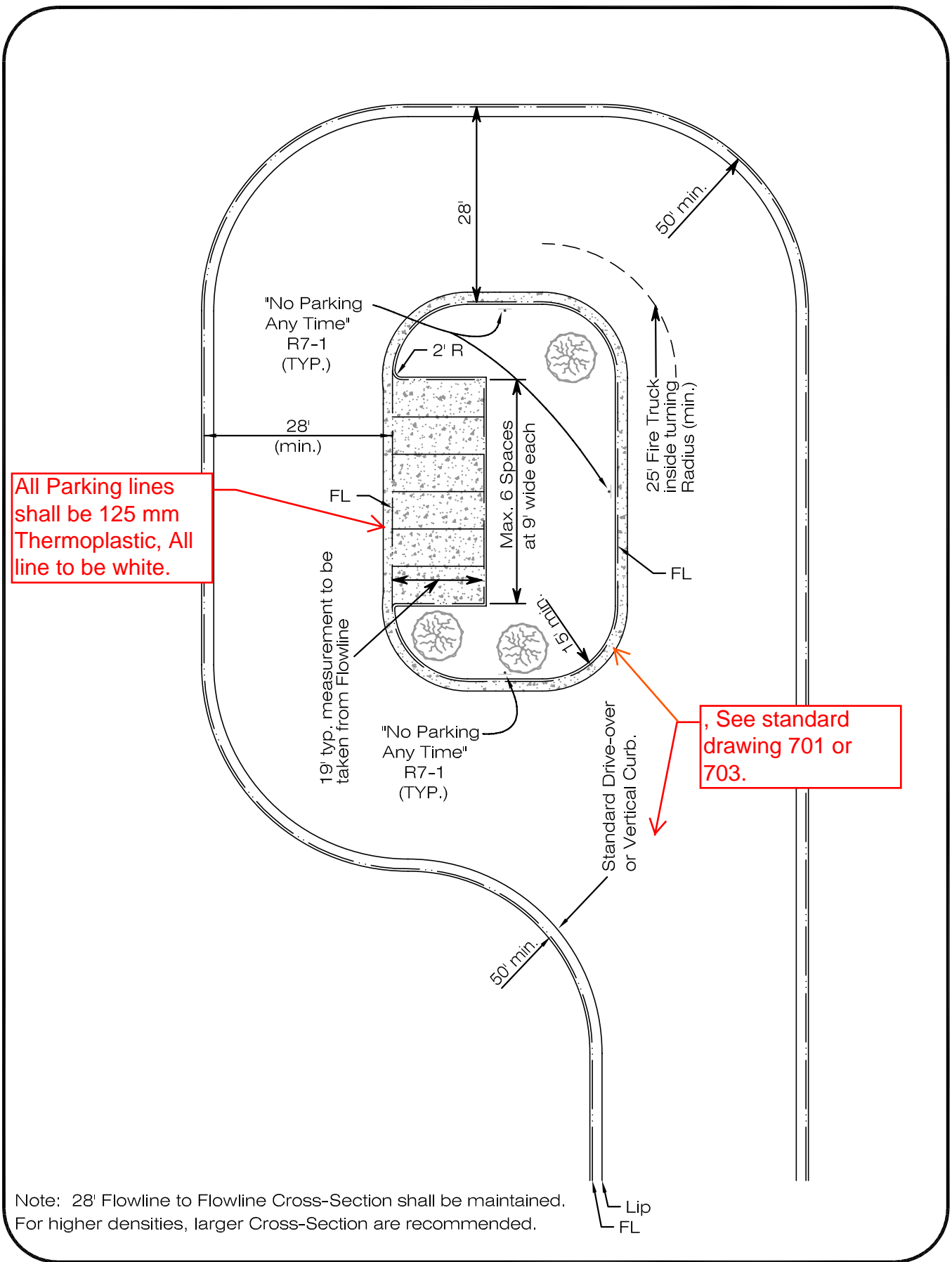
FORCED TURN BARRIER (SPLITTER ISLAND)

LARIMER COUNTY
URBAN AREA
STREET STANDARDS

CONSTRUCTION
DRAWINGS

REVISION NO: 3
DATE: 05/01/13

DRAWING
802



CENTER ISLAND PARKING IN CUL-DE-SAC

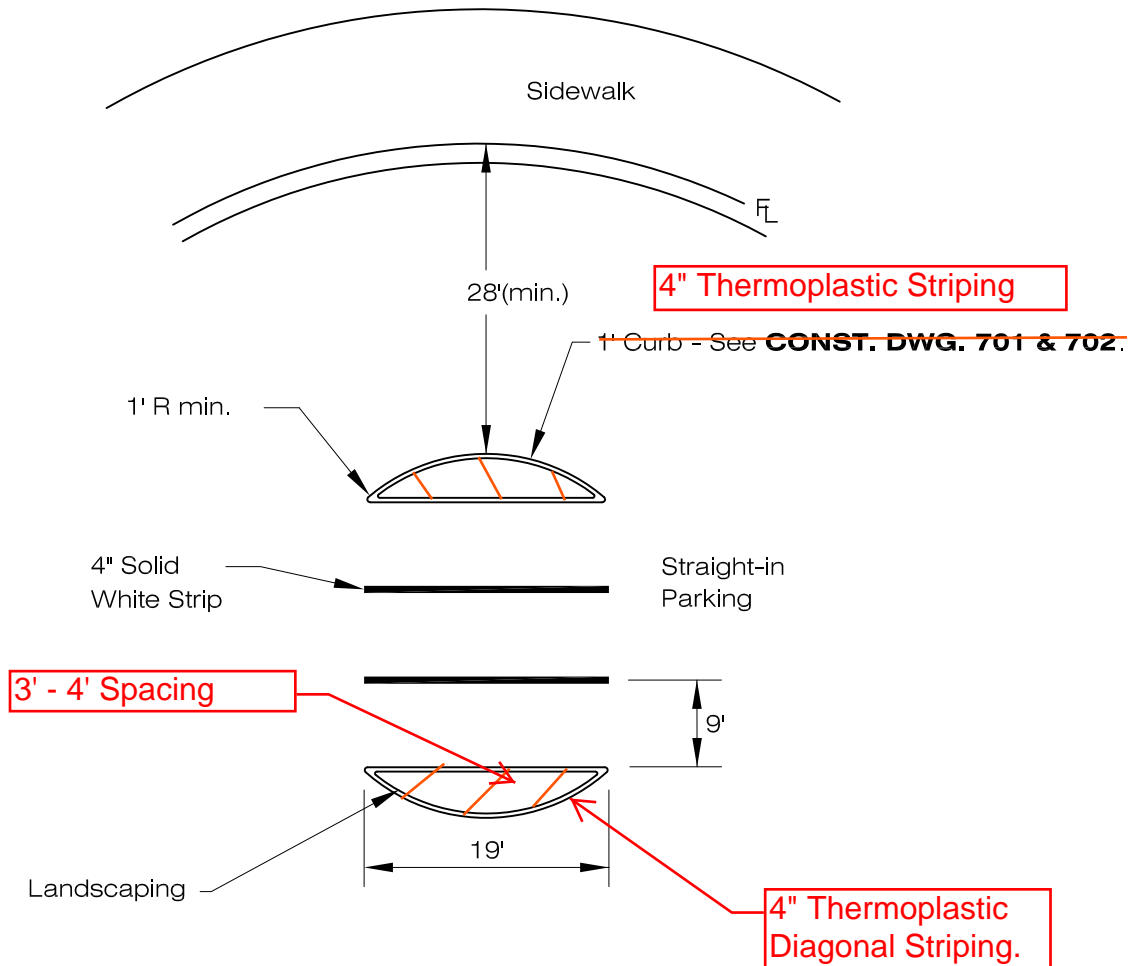
LARIMER COUNTY
URBAN AREA
STREET STANDARDS

DESIGN
FIGURE

REVISION NO: 2
DATE: 04/01/07

FIGURE
19-1

LOVELAND ONLY



NOTES:

1. One space to be provided for every dwelling unit that fronts on the cul-de-sac. Refer to **Chapter 19** for exceptions. **Thermoplastic Striping**
2. The ~~landscaping~~ shall be maintained by the HOA or other private entity.
3. A clear distance of 28' must be maintained from edge of island to flow line.
4. For striping materials and requirements, refer to **Chapter 14**.

STANDARD CUL-DE-SAC CENTER PARKING AREA

LARIMER COUNTY
URBAN AREA
STREET STANDARDS

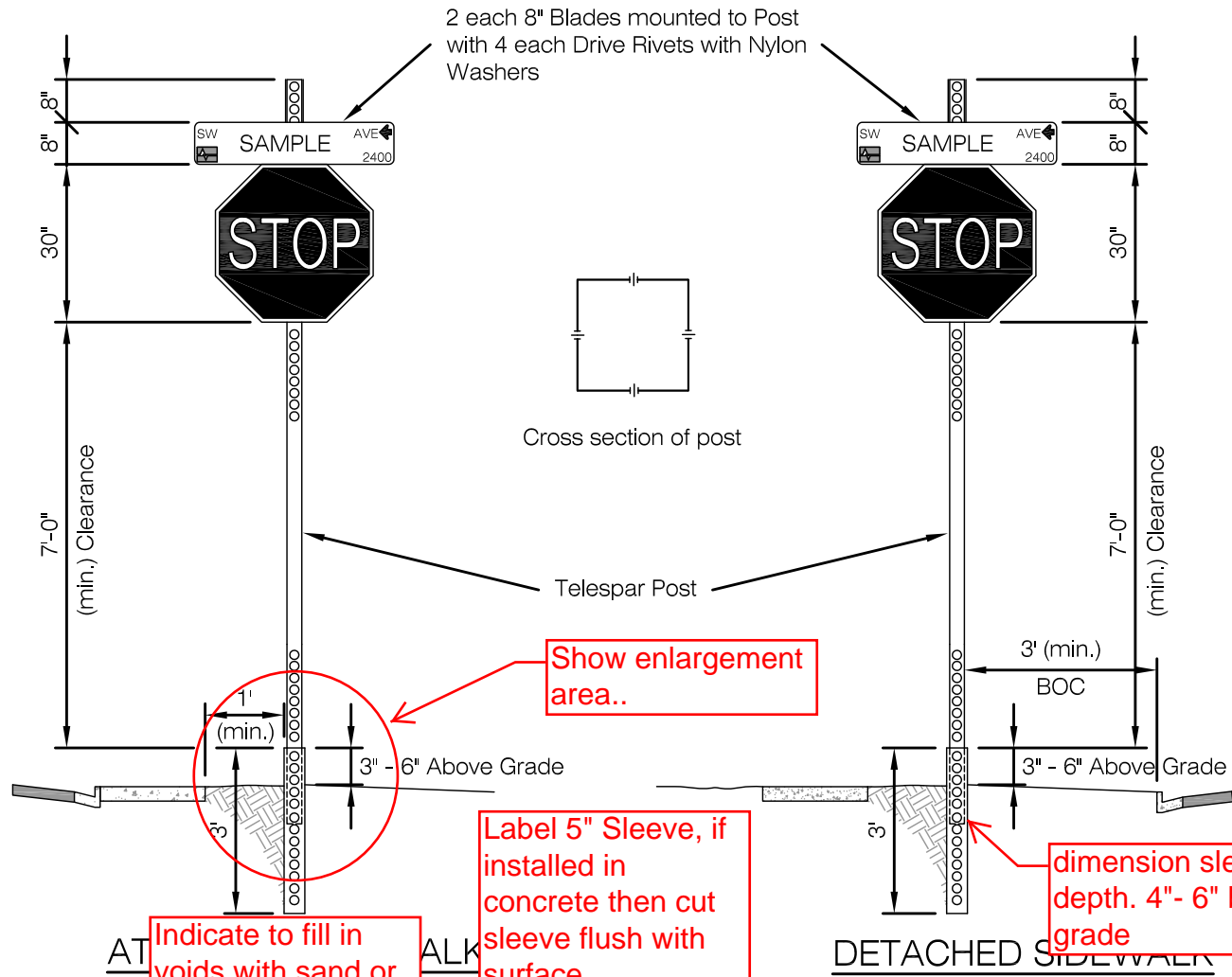
DESIGN
FIGURE

REVISION NO:

DATE: 08/07/00

FIGURE

19-2L



Show enlargement area..

Label 5" Sleeve, if installed in concrete then cut sleeve flush with surface..

Indicate to fill in voids with sand or suitable material in sleeve

dimension sleeve depth. 4"- 6" below grade

| CRITERIA FOR SINGLE POST | | |
|--------------------------|------------------------------------|-----------------------------|
| Max. Sign Panel | Telespar 22F12A O3PG Anchor Post * | Telespar 20F12P-10PG Post * |
| 36"x36" | 2.25"x2.25"x3'-0" | 2"x2"x12'-0" |

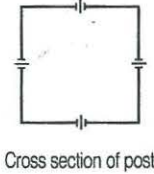
NOTES:

1. Attach the sign panels tightly to the post and use oversized washers to keep the sign from breaking loose from the post when hit by a vehicle.
2. Sign panels should be mounted a minimum of 7 feet above the pavement or ground.
3. Signs larger than 36 inches in length or width require wind bracing and special post design.
4. Anchor Stub and post are square steel tube (perforated).
5. All "No Parking" signs shall be installed at 45° from Flow Line.
6. R1-1 "STOP" sign 30" High Density/Diamond Grade. Sign mounted to post with 1 each drive rivet with nylon washer against sign face (on Top of the Sign). sign shall be mounted with 1 each 5/16"x2 1/2" Hew Bolt with nylon washers against sign face (on Bottom of the Sign). Secured with 1 each 5/16" Hex Nut on the back side of Post.

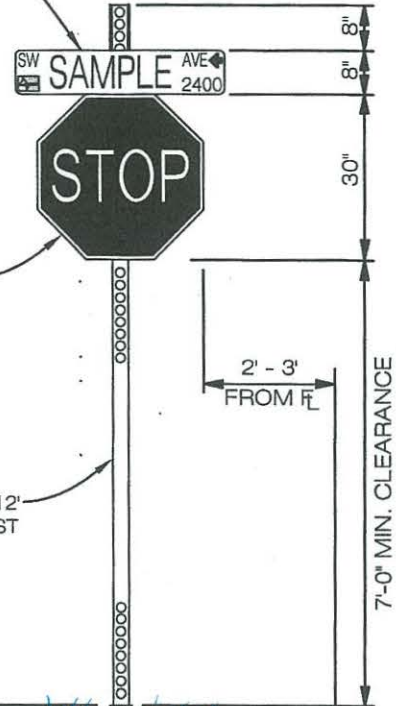
NOT TO SCALE

SIGN POST

| | | | |
|--|--------------------------|----------------|-----------------|
| LARIMER COUNTY URBAN AREA STREET STANDARDS | CONSTRUCTION DRAWINGS | REVISION NO: 2 | DRAWING 1401 |
| | | DATE: 05/01/13 | |



2 EACH 8" BLADES MOUNTED TO POST WITH 4 EACH DRIVE RIVETS WITH NYLON WASHERS

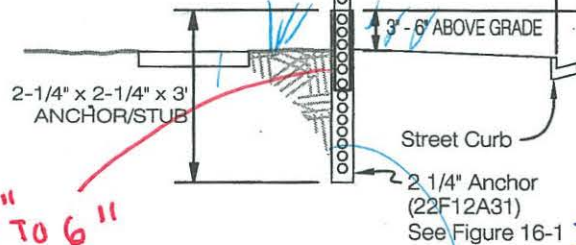


R1-1 "STOP" SIGN 30" HIGH DENSITY/DIAMOND GRADE. SIGN MOUNTED TO POST WITH 1 EACH DRIVE RIVET WITH NYLON WASHER AGAINST SIGN FACE (ON TOP OF THE SIGN). THE BOTTOM OF THE SIGN SHALL BE MOUNTED WITH 1 EACH 5/16"x2-1/2" HEW BOLT WITH METAL AND FROM NYLON WASHERS (NYLON WASHER AGAINST SIGN FACE) AND SECURED WITH 1 EACH 5/16" HEX NUT ON THE BACK SIDE OF POST.

2" x 2" x 10' OR 12' 12 GAUGE TELESPAR POST

| CRITERIA FOR SINGLE POST | | |
|--------------------------|-----------------------|------------------|
| Max. Sign Panel | Anchor/Stub * | Post Size * |
| 36" x 36" | 2.25" x 2.25" x 3'-0" | 2" x 2" x 12'-0" |

* 12 Gauge



~~4" ID~~
* 5" SLEEVE

* 4" TO 6" BELOW GRADE INTO STUB

Add concrete sleeve detail

NOTES:

1. Attach the sign panels tightly to the post and use oversized washers to keep the sign from breaking loose from the post when hit by a vehicle.
2. Sign panels should be mounted a minimum of 7 feet above the pavement or ground.
3. Signs larger than 36 inches in length or width require wind bracing and special post design.
4. Anchor Stub and post are square steel tube (perforated).
5. All "No Parking" signs shall be installed at 45° from Flow Line.

* CUT PVC SLEEVE FLUSH WITH CONCRETE

* FILL PVC WITH SAND OR DIRT

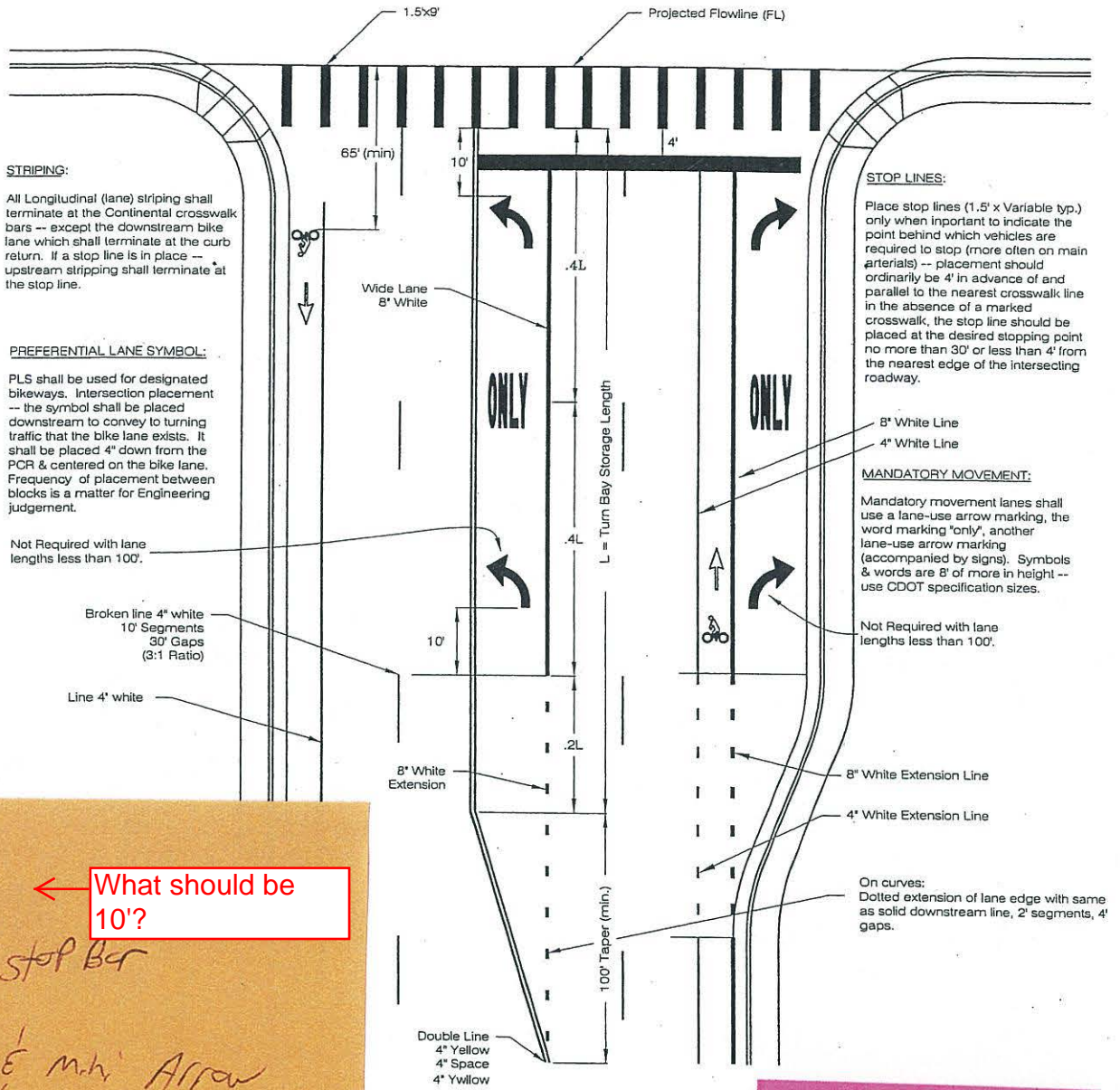


SIGN POST

| | | | |
|--|--------------------------|----------------|-----------------|
| LARIMER COUNTY URBAN AREA STREET STANDARDS | CONSTRUCTION DRAWINGS | REVISION NO: 1 | DRAWING 1401 |
| | | DATE: 04/01/07 | |

CROSSWALK MARKINGS:

An Engineering study should be required before crosswalk markings are installed in locations away from traffic signals or stop signs. Continental crosswalk bars (1.5' x 9' typ.) shall be placed adjacent to the projected flowline or abutting to existing crosswalk. A bar shall be placed centered on each lane line and in the center of each lane. Lanes 5' wide or less shall not receive a bar centered in the lane. It is important that the markings are in alignment with the access ramps / sidewalks.



STRIPING:

All Longitudinal (lane) striping shall terminate at the Continental crosswalk bars -- except the downstream bike lane which shall terminate at the curb return. If a stop line is in place -- upstream striping shall terminate at the stop line.

PREFERENTIAL LANE SYMBOL:

PLS shall be used for designated bikeways. Intersection placement -- the symbol shall be placed downstream to convey to turning traffic that the bike lane exists. It shall be placed 4' down from the PCR & centered on the bike lane. Frequency of placement between blocks is a matter for Engineering judgement.

Not Required with lane lengths less than 100'.

Broken line 4" white
10' Segments
30' Gaps
(3:1 Ratio)

Line 4" white

8" White Extension

Double Line
4" Yellow
4" Space
4" Yyellow

STOP LINES:

Place stop lines (1.5' x Variable typ.) only when important to indicate the point behind which vehicles are required to stop (more often on main arterials) -- placement should ordinarily be 4' in advance of and parallel to the nearest crosswalk line in the absence of a marked crosswalk, the stop line should be placed at the desired stopping point no more than 30' or less than 4' from the nearest edge of the intersecting roadway.

8" White Line
4" White Line

MANDATORY MOVEMENT:

Mandatory movement lanes shall use a lane-use arrow marking, the word marking "only", another lane-use arrow marking (accompanied by signs). Symbols & words are 8' of more in height -- use CDOT specification sizes.

Not Required with lane lengths less than 100'.

8" White Extension Line

4" White Extension Line

On curves:
Dotted extension of lane edge with same as solid downstream line, 2' segments, 4' gaps.

*10 ft ← What should be 10'?

from stop bar

- Bike & m.h. Arrow lay out corrections

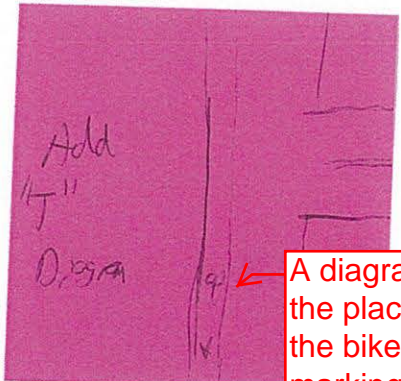
- Spec for Bike Lane Spacing

- Think about gaps each bike

Which corrections?

recommendations?

clarify

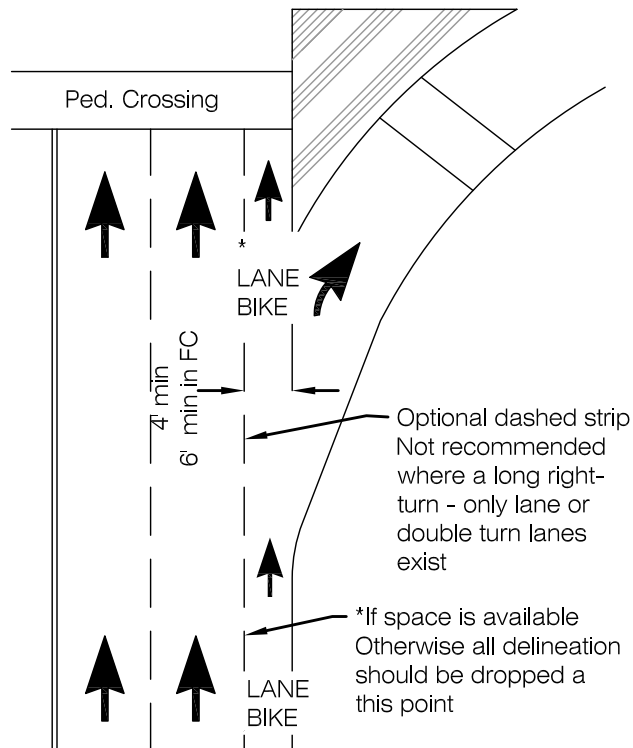


A diagram showing the placement of the bike lane markings can be added.

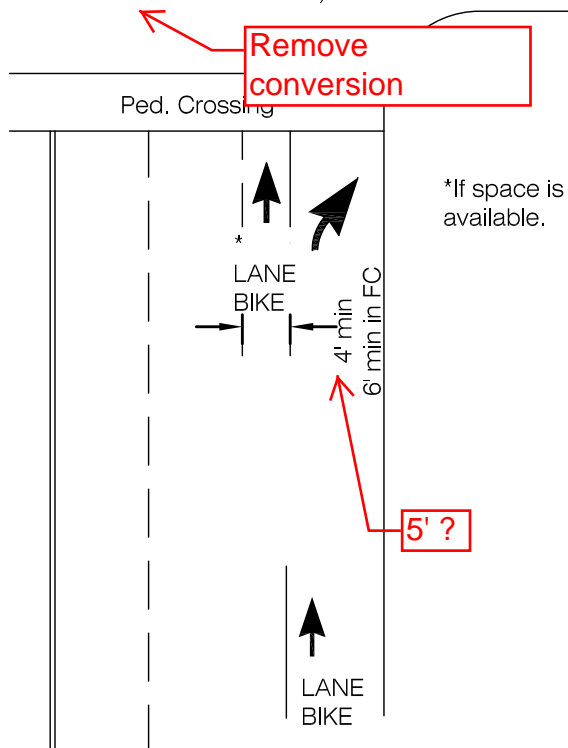
STANDARD PAVEMENT MARKINGS W/TURN LANE

| | | | |
|--|--------------------------|----------------|-----------------|
| LARIMER COUNTY URBAN AREA STREET STANDARDS | CONSTRUCTION DRAWINGS | REVISION NO: 1 | DRAWING 1404 |
| | | DATE: 03/02/01 | |

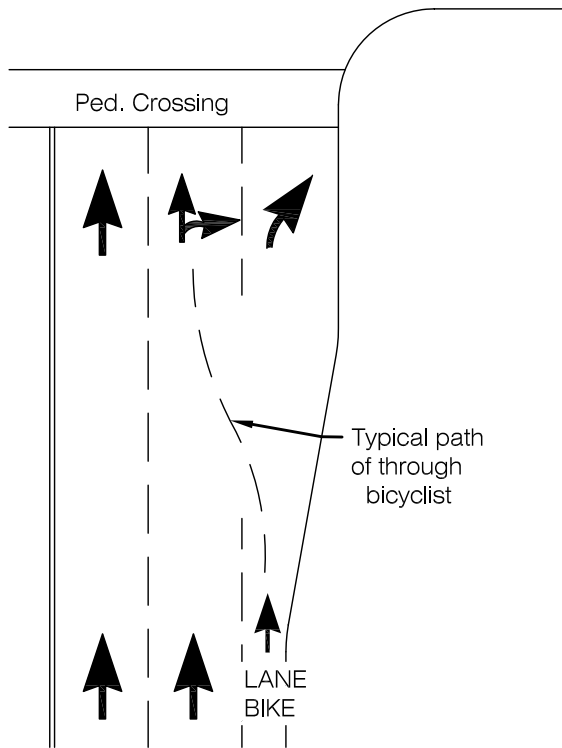
(Metric Conversion: 1 ft. = 0.3 m.)



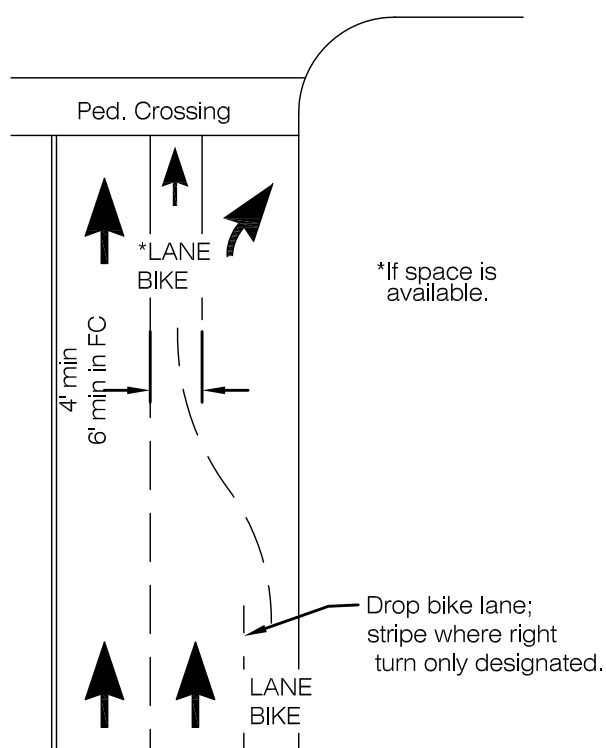
RIGHT-TURN-ONLY LANE



PARKING LANE BECOMES RIGHT-TURN-ONLY LANE



OPTIONAL DOUBLE RIGHT-TURN-ONLY LANE (IN LOVELAND ONLY)



RIGHT LANE BECOMES RIGHT-TURN-ONLY LANE NOT TO SCALE

BICYCLE LANE APPROACHING VEHICLE RIGHT TURN LANE

LARIMER COUNTY
URBAN AREA
STREET STANDARDS

CONSTRUCTION
DRAWINGS

REVISION NO: 1
DATE: 05/01/13

DRAWING
1410

LARIMER COUNTY
URBAN AREA
STREET STANDARDS

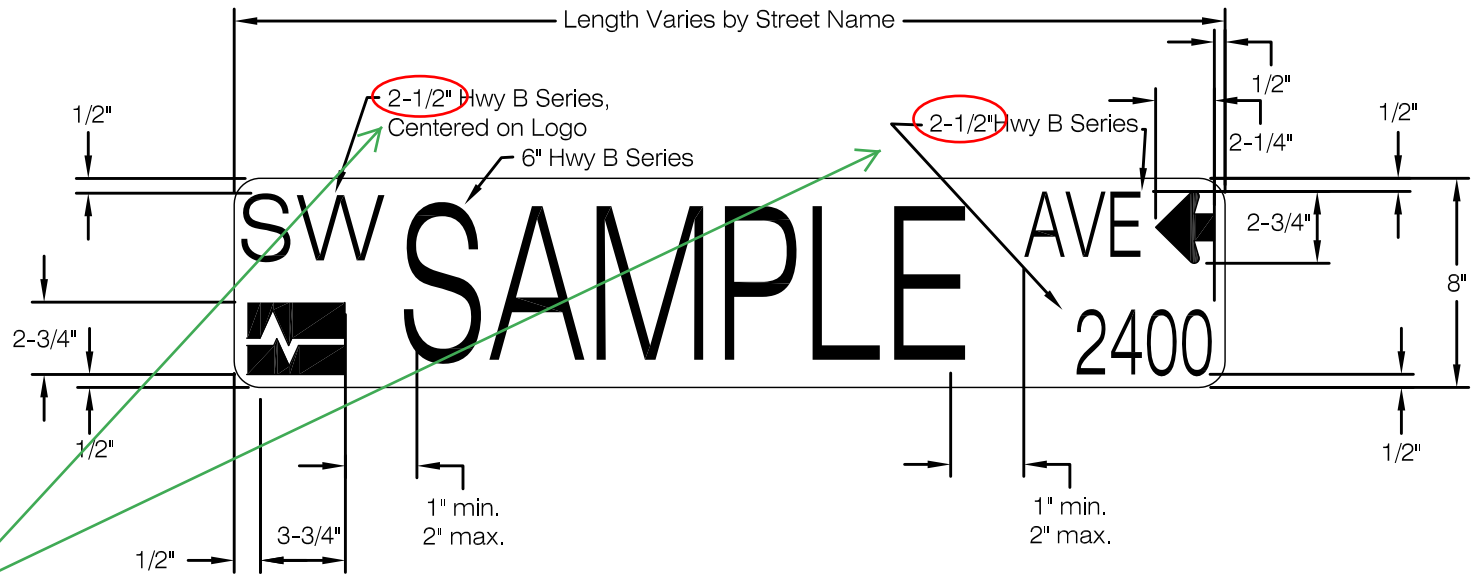
CONSTRUCTION
DRAWINGS

REVISION NO.: 3
DATE: 05/01/13

DRAWING
1411

STREET N

NOT TO SCALE



2 1/2" vs 2" .. All caps or first letter cap with subsequent letters lowercase?

All white letters, first letter of each street name word to be capitalized followed by all lower case letters.

NOTES:

1. Street name must be 6" (min.) capital white letters, FHWA Series "B".
2. Prefix must be 2" letters, FHWA Series "B" and placed on the upper left.
3. Suffix must be 2" (min.) letters and block number must be 2" (min.) numbers, FHWA Series "B".
4. Overall sign length dimension varies according to length of street name.
5. All sign lettering and green background material must be at least Diamond Grade sheeting per FHWA; ~~No silk screened signs will be permitted.~~
6. Street numbers shall always point to higher block number.
7. Aluminum sign blank shall be ~~0.10~~ thickness with 3/4" radius corners.
8. Loveland only, signalized intersection signs shall be 18" (min.) in height.
9. All street name signs shall be retroreflective.

3M™ High Intensity Grade Prismatic Reflective Sheeting (HIP) with an EC Transparent Overlay Film

Electrical cut?

0.080

Signs longer than 36" shall be 0.10 thick

with 15" high letters

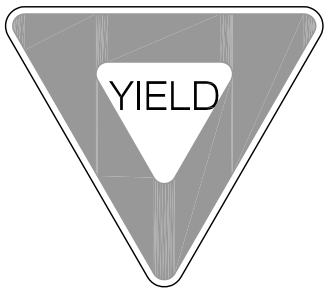
LARIMER COUNTY
URBAN AREA
STREET STANDARDS

CONSTRUCTION
DRAWINGS

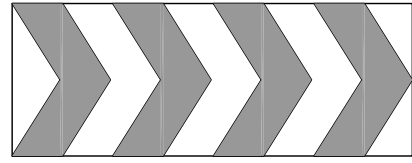
REVISION NO:
DATE: 05/01/13

1412

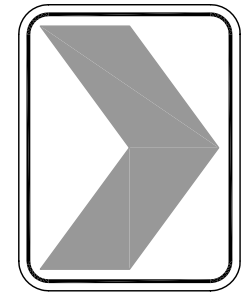
URBAN ROUNDABOUT SIGN DETAILS



RI-2
36" x 36" x 36"
(Red on White)



W1-8a 54" x 24" (min.)
(Black on White)



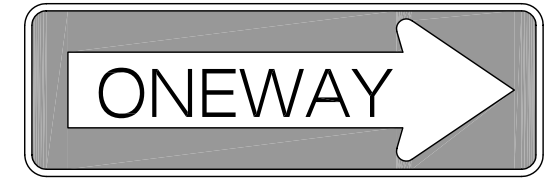
W1-8 18" x 24"



W11-2a
30" x 30"

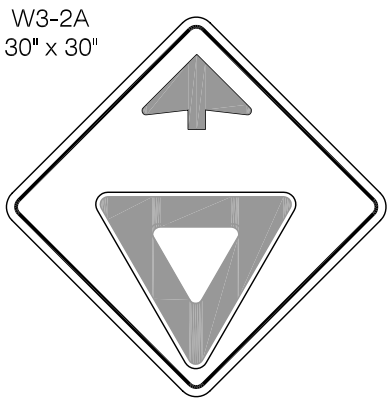


W13-1
18" x 18"

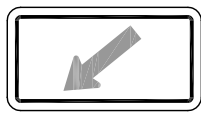


R6-1
54" x 18"

*This sign should only be used on major/larger roundabouts.



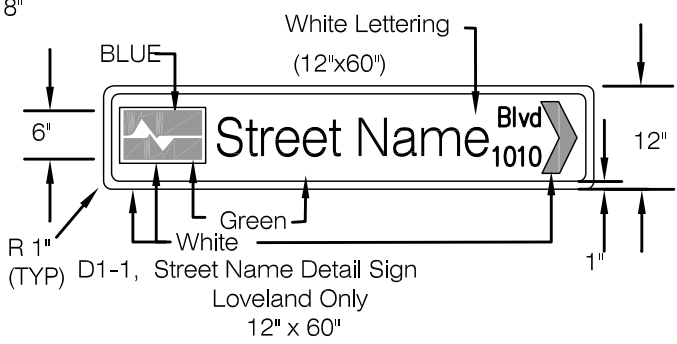
W3-2A
30" x 30"



W16-7P
24" x 18"



24" x 18"



*This street name sign should only be used on Urban Roundabouts, mounted directly to sign post with rivets and nylon washers; 4 each per installation. (Use 8" blank for Mini-Roundabouts)



W2-6
30" x 30"
(Black on Yellow)

NOT TO SCALE

See the FHWA Roundabout Guidelines for additional signing details.

Eliminate Standard, Appendix I supersedes.

LARIMER COUNTY
URBAN AREA
STREET STANDARDS

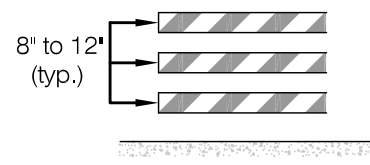
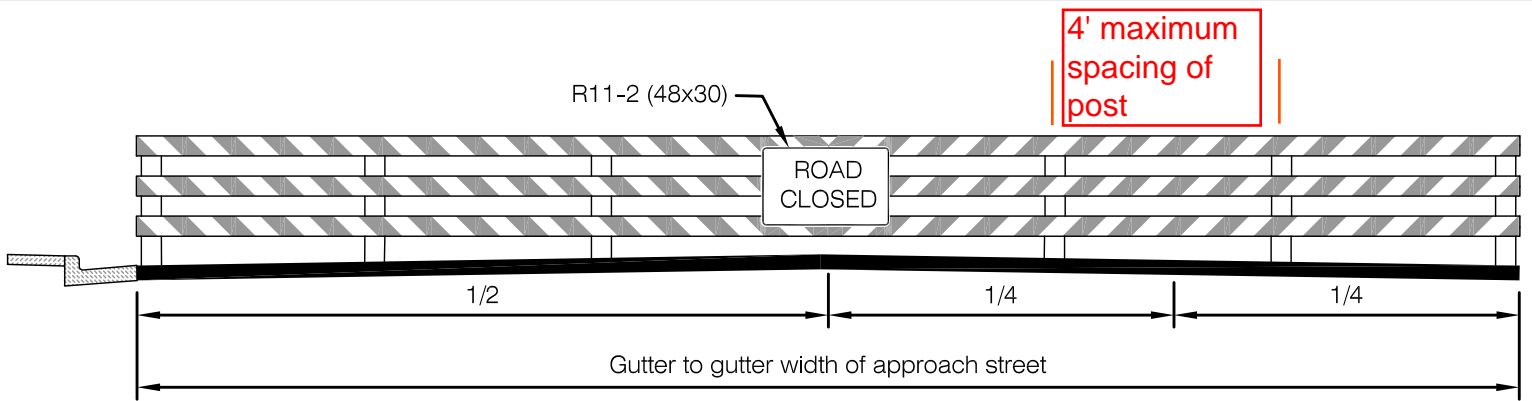
STANDARD TEMPORARY DEAD END BARRICADES

CONSTRUCTION
DRAWINGS

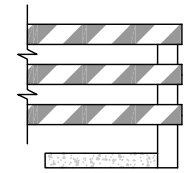
REVISION NO: 3
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DRAWING
1413

NOT TO SCALE



DETACHED OR SIDEWALK DOES NOT END AT BARRICADE



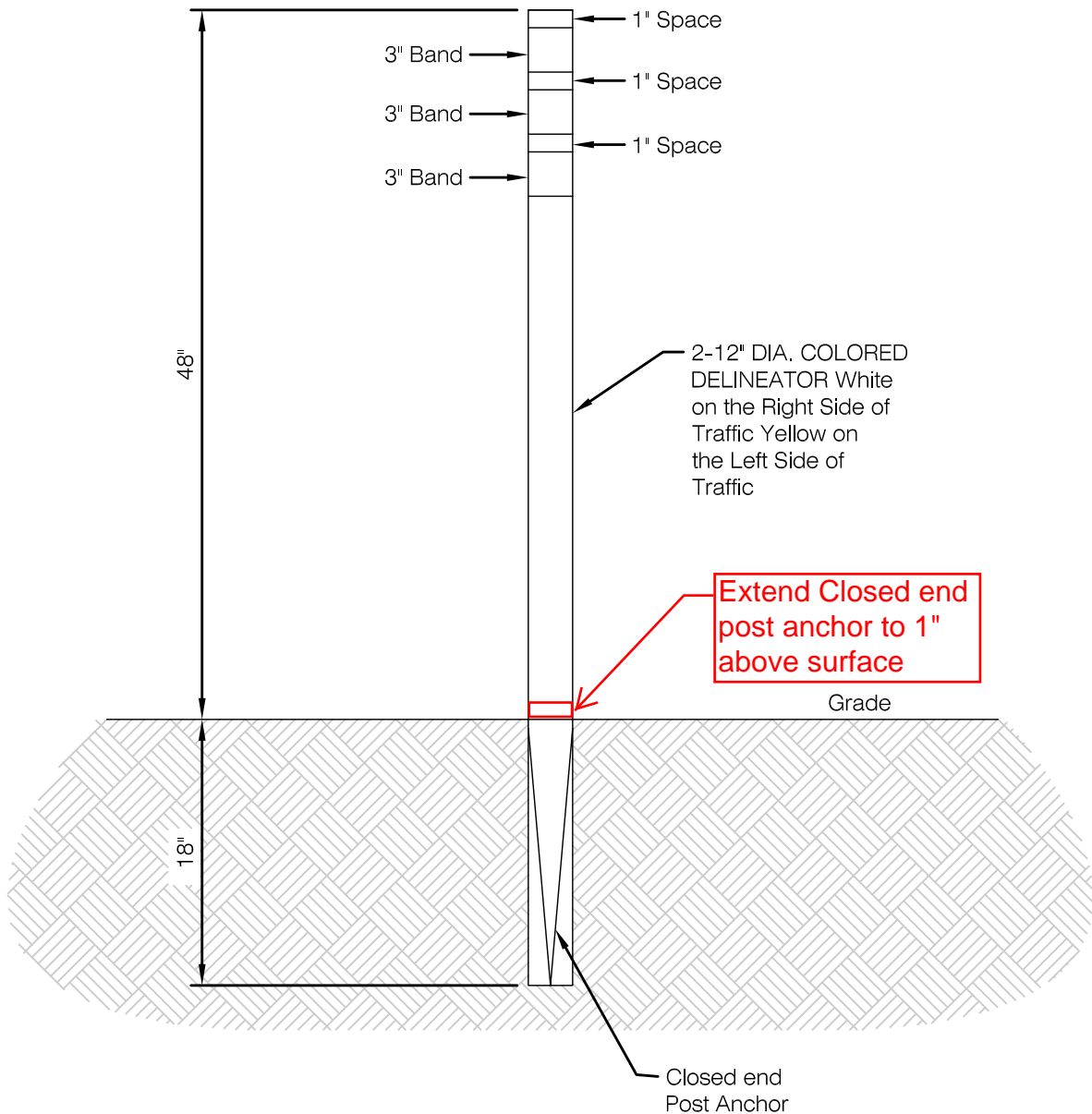
ATTACHED / SIDEWALK ENDS AT BARRICADE

NOTES:

1. Rails shall be nominal lumber dimension.
2. Posts shall be 6" x 6" pressure treated, rot-resistant lumber.
3. Use 6" wide reflectorized orange stripes on reflectorized white background, front side only, paint back and edges white.
4. Other options may be used as approved by Local Entity Engineer.

2" Telespar Square Tubing sleeved or core drilled into pavement surface

These signs and barricades must be installed by the Developer at the end of all new streets that dead end on a temporary basis, and must be maintained by the Developer until the street is extended by future development.



NOTES:

DELINEATORS ARE ROUND w/ Yellow or White reflective material wrapped around with the SAME COLOR REFLECTIVE MATERIAL (BAND) as the post (YELLOW OR WHITE). The reflective material is wrapped all the way around the delineators so that they are visible from all directions.

The number of reflective bands on the delineator shall be three.

IF ANCHOR IS LOCATED IN AN ISLAND OR PAVED MEDIAN, A 4" DIA. PVC SLEEVE SHALL BE EXTENDED THROUGH THE PAVEMENT FOR POST ANCHOR (STUB).

NOT TO SCALE

DELINEATOR DETAIL (SAFE HIT)

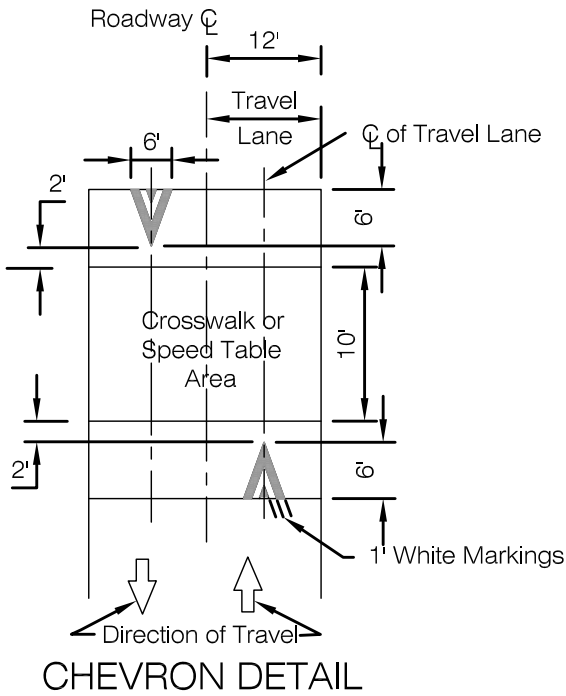
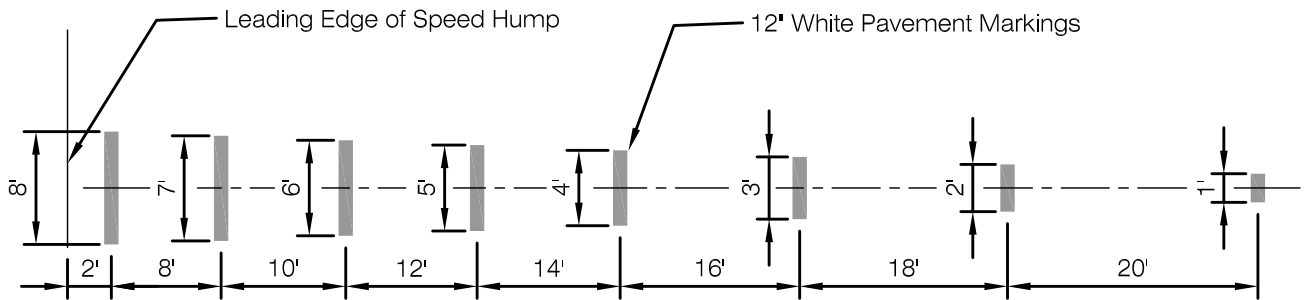
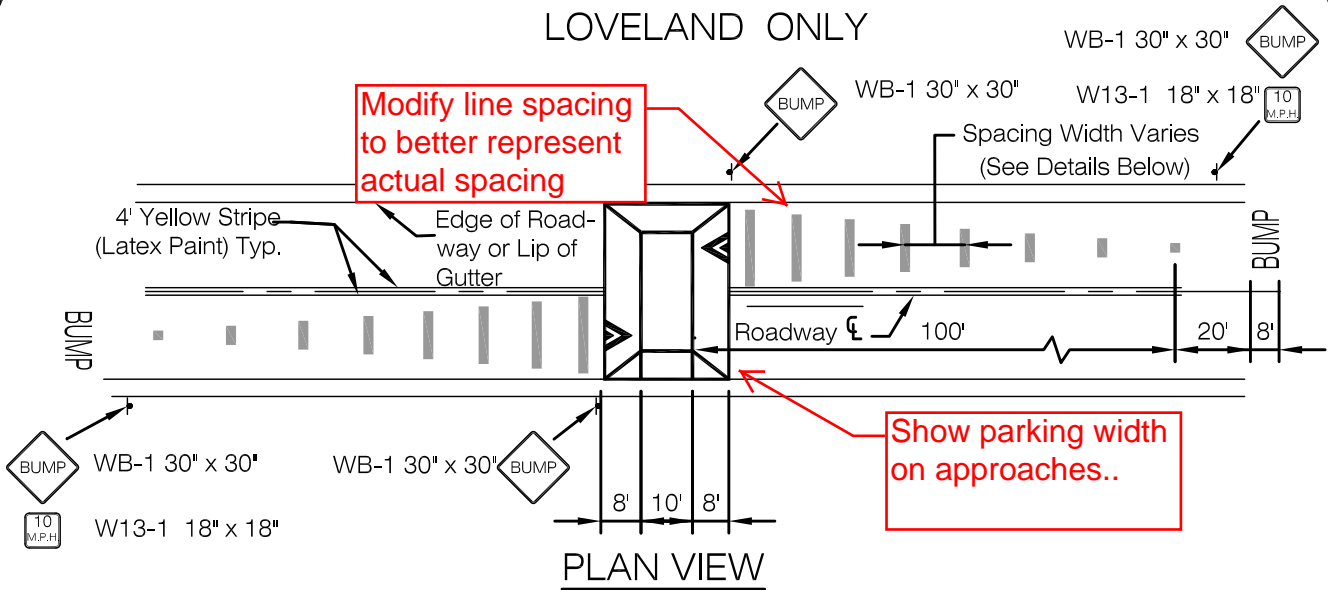
LARIMER COUNTY
URBAN AREA
STREET STANDARDS

CONSTRUCTION
DRAWINGS

REVISION NO: 3
DATE: 05/01/13

DRAWING
1415

LOVELAND ONLY



NOTES:

1. Graduated bars, Chevron and "Bump" markings are centered in the travel lanes.
2. All pavement markings (except the centerline striping) are to be pre-formed thermoplastic (PREMARK by Flint Trading, or equal)

NOT TO SCALE

SIGN & PAVEMENT MARKINGS FOR SPEED TABLES

LARIMER COUNTY
URBAN AREA
STREET STANDARDS

CONSTRUCTION
DRAWINGS

REVISION NO: 2
DATE: 05/01/13

DRAWING
1416L

Crosswalk per Standard Drawing 1405

LOVELAND ONLY

W11-2 30" X 30"



Detached Sidewalk



W11-2 30" X 30"

W13-1 18" x 18"



Spacing Width Varies (See Detail Below)

4' Yellow Stripe (Latex Paint) Typ.

Edge of Roadway or Lip of Gutter

Roadway C

100'

20'

8'

8'



W11-2 30" X 30"



W13-1 18" x 18"

W11-2 30" X 30"



W16-7P 24" X 18"



PLAN VIEW

10'

Gap to be 4x Height of Words

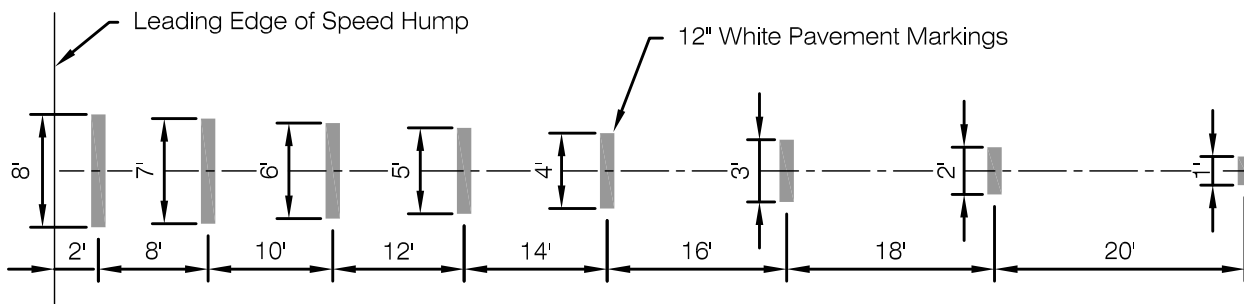


W11-2 30" X 30"

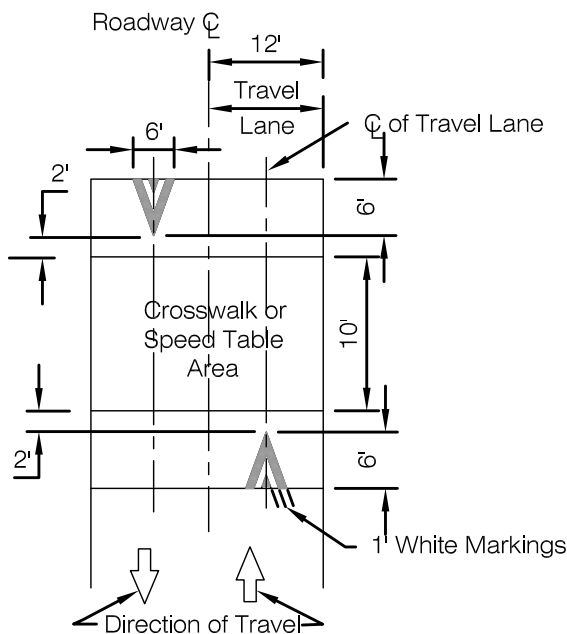


W16-7P 24" X 18"

Show parking on approaches.



GRADUATED BAR DETAIL



CHEVRON DETAIL

NOTES:

1. Graduated bars, Chevron and "PED XING" markings are centered in the travel lanes.
2. All pavement markings (except the centerline striping) are to be pre-formed thermoplastic (PREMARK by Flint Trading, or equal)

NOT TO SCALE

SIGN & PAVEMENT MARKINGS FOR RAISED CROSSINGS

LARIMER COUNTY
URBAN AREA
STREET STANDARDS

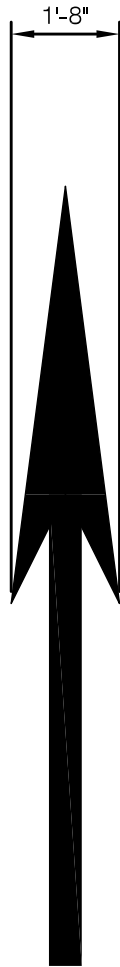
CONSTRUCTION
DRAWINGS

REVISION NO: 3

DRAWING

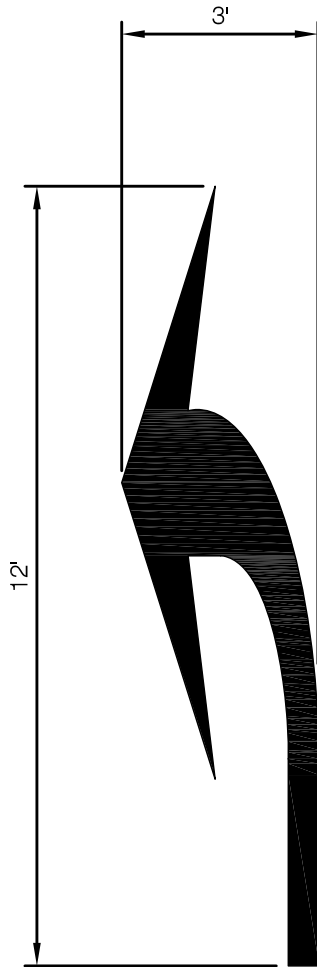
DATE: 05/01/13

1417L



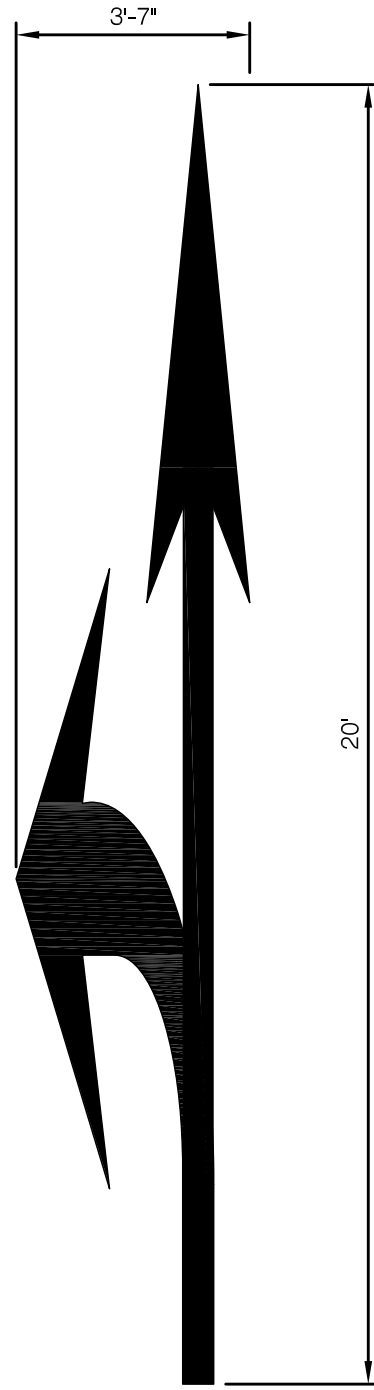
~~#330248~~

Straight Arrow - Elongated
FHWA
PreMark® Item # 8330248



~~#330247~~

Turn Arrow - Elongated FHWA
Reversible - PreMark® Item #
8330247NB
Left - PreMark® Item # 8330247L
Right - PreMark® Item # 8330247R



~~#330149~~

Combi Arrow - Elongated FHWA
Reversible - PreMark® Item #
8330149NB
Left - PreMark® Item # 8330149L
Right - PreMark® Item # 8330149R

*For City of Loveland see 2013 Thermoplastic Standards for more information.

NOT TO SCALE

NEW FHWA ARROWS (ENLONGATED)

LARIMER COUNTY
URBAN AREA
STREET STANDARDS

CONSTRUCTION
DRAWINGS

REVISION NO: 2
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DRAWING
1420